

Quantitative Analysis Sample Based Report

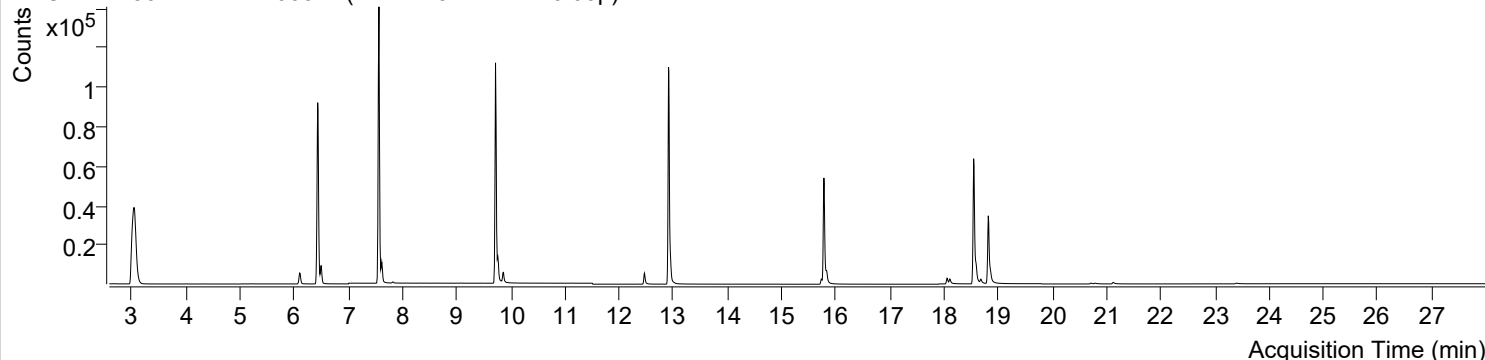


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 1:48:48	Data File	230112-PAHs-005.D
Type	Sample	Name	PAHs-19mix-STD-0.05p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

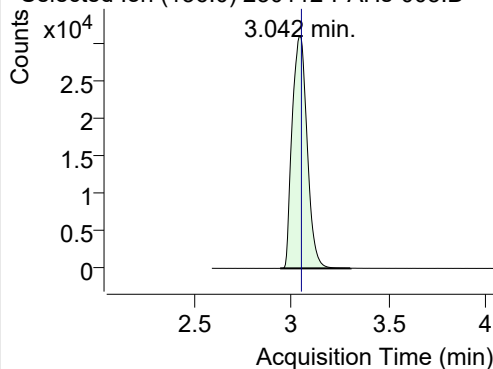
+ TIC SIM 230112-PAHs-005.D (PAHs-19mix-STD-0.05p)



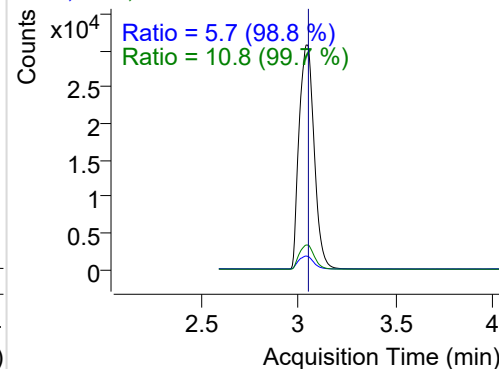
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	164961	30732.93	ND ng/ml	10.8
Naphthalene	3.074	128.0	14463	2717.36	ND ng/ml	12.5
Acenaphthylene	6.102	152.0	9400	4139.31	ND ng/ml	19.2
IS-D10-Acenaphthene	6.434	164.0	87900	44378.42	ND ng/ml	93.4
Acenaphthene	6.499	154.0	6496	3192.81	ND ng/ml	105.9
LSS-D10-Fluorene	7.564	176.0	111448	65135.19	ND ng/ml	90.4
Fluorene	7.617	166.0	7975	4321.27	ND ng/ml	90.2
IS-D10-Phenanthrene	9.717	188.0	149796	89155.55	ND ng/ml	14.9
Phenanthrene	9.759	178.0	11504	6215.73	ND ng/ml	18.4
Anthracene	9.864	178.0	7251	3506.63	ND ng/ml	19.1
Fluoranthene	12.467	202.0	8421	4325.62	ND ng/ml	17.0
LSS-D10-Pyrene	12.911	212.0	138930	81117.72	ND ng/ml	17.9
Pyrene	12.944	202.0	11705	6164.78	ND ng/ml	20.5
Benz(a)anthracene	15.735	228.0	3896	1776.35	ND ng/ml	25.2
IS-D12-Chrysene	15.779	240.0	78602	40033.33	ND ng/ml	18.8
Chrysene	15.833	228.0	6759	2991.64	ND ng/ml	28.2
Benzo(b)fluoranthene	18.053	252.0	3157	1659.58	ND ng/ml	21.6
Benzo(k)fluoranthene	18.103	252.0	3436	1370.49	ND ng/ml	24.6
SS-D12-Benzo(e)pyrene	18.545	264.0	89235	43087.39	ND ng/ml	24.9
Benzo(e)pyrene	18.587	252.0	6912	3043.78	ND ng/ml	21.9
Benzo(a)pyrene	18.680	252.0	2296	1031.22	ND ng/ml	20.2
IS-D12-Perylene	18.815	264.0	50240	23418.43	ND ng/ml	23.4
Perylene	18.858	252.0	4459	1786.85	ND ng/ml	23.1
Indeno(1,2,3-c,d)pyrene	20.713	276.0	787	326.58	ND ng/ml	25.1
Dibenz(a,h)anthracene	20.790	278.0	676	177.63	ND ng/ml	23.1
Benzo(g,h,i)perylene	21.118	276.0	1852	561.55	ND ng/ml	24.9
Coronene	23.401	300.0	1055	211.11	ND ng/ml	26.4

IS-D8-Naphthalene

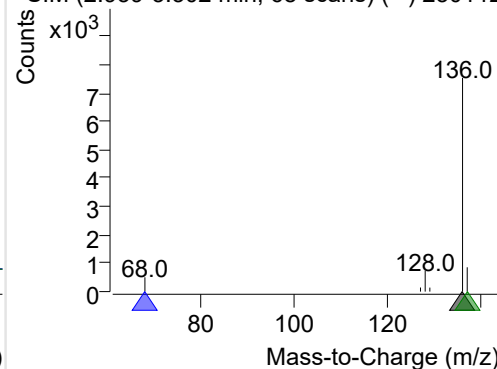
+ Selected Ion (136.0) 230112-PAHs-005.D



136.0, 68.0, 137.0

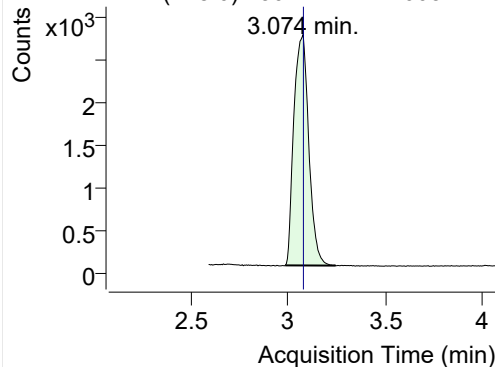


+ SIM (2.939-3.302 min, 68 scans) (**) 230112

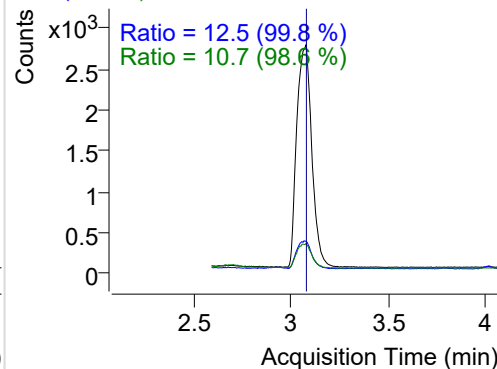


Naphthalene

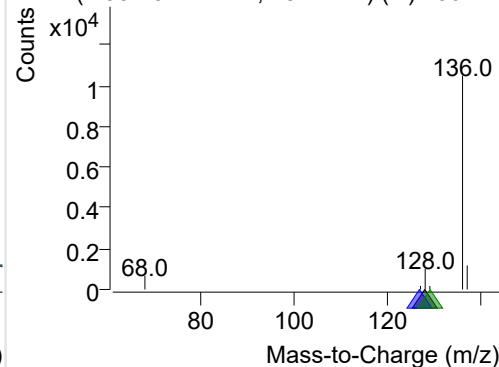
+ Selected Ion (128.0) 230112-PAHs-005.D



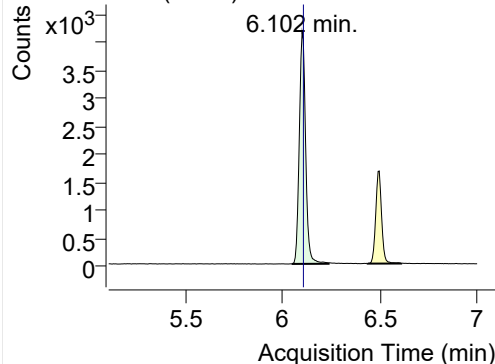
128.0, 127.0, 129.0



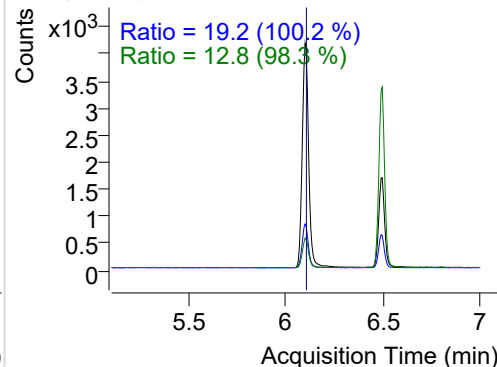
+ SIM (2.982-3.242 min, 48 scans) (**) 230112

**Acenaphthylene**

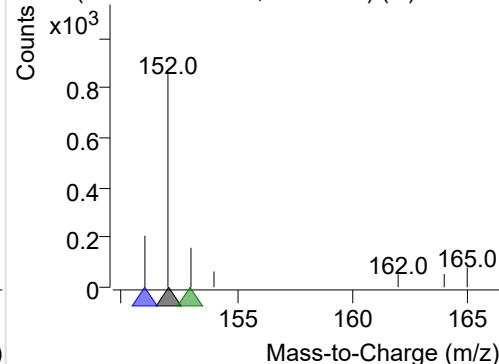
+ Selected Ion (152.0) 230112-PAHs-005.D



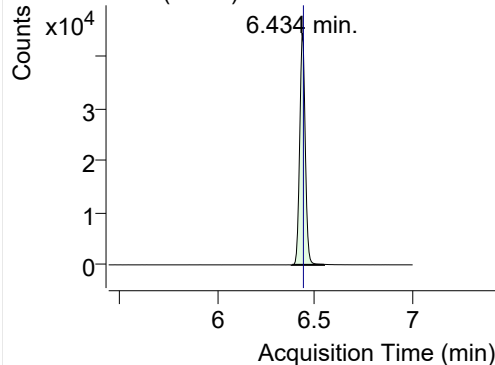
152.0, 151.0, 153.0



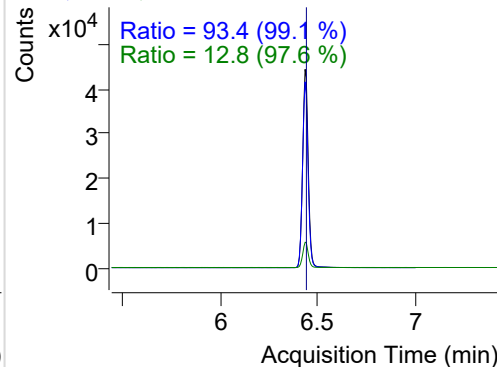
+ SIM (6.049-6.238 min, 33 scans) (**) 230112

**IS-D10-Acenaphthene**

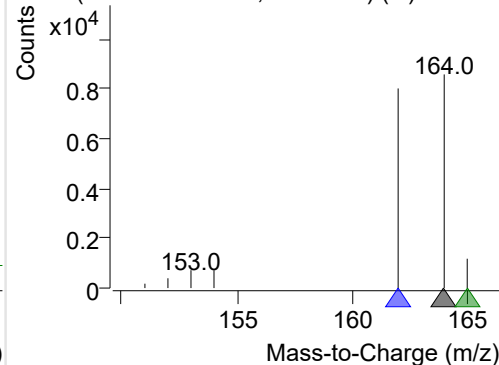
+ Selected Ion (164.0) 230112-PAHs-005.D



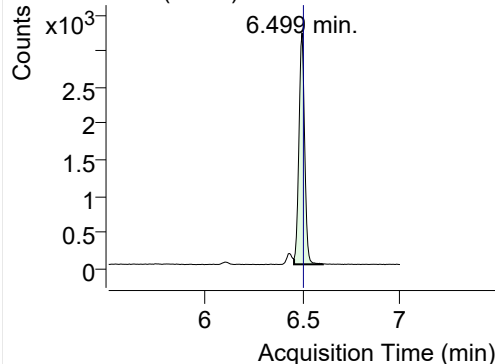
164.0, 162.0, 165.0



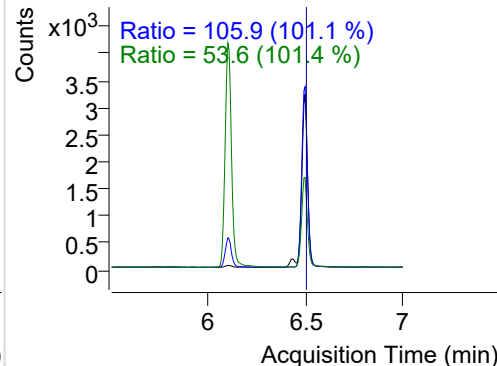
+ SIM (6.380-6.546 min, 29 scans) (**) 230112

**Acenaphthene**

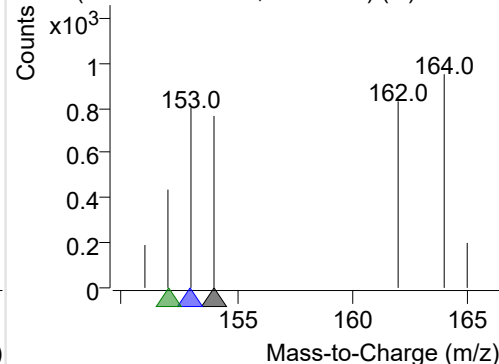
+ Selected Ion (154.0) 230112-PAHs-005.D



154.0, 153.0, 152.0

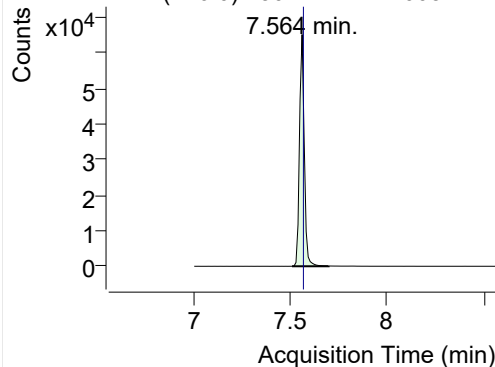


+ SIM (6.457-6.605 min, 26 scans) (**) 230112

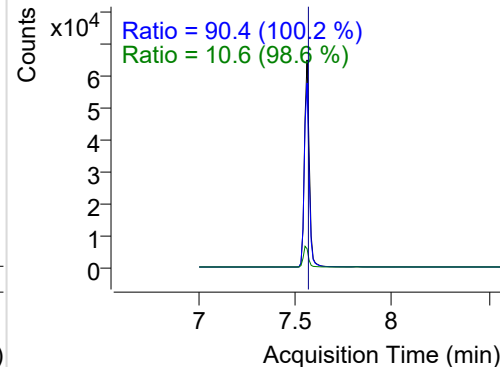


LSS-D10-Fluorene

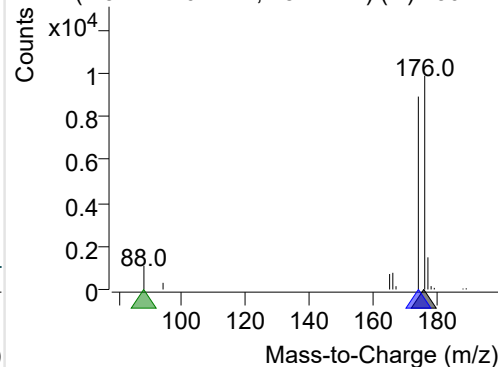
+ Selected Ion (176.0) 230112-PAHs-005.D



176.0, 174.0, 88.0

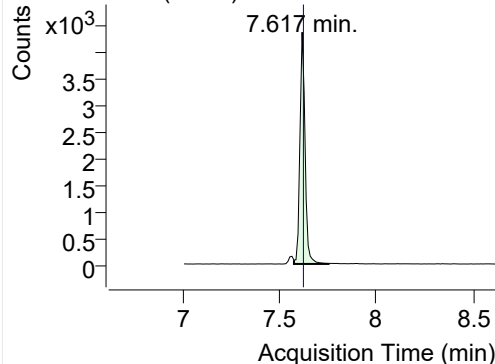


+ SIM (7.512-7.701 min, 18 scans) (**) 230112

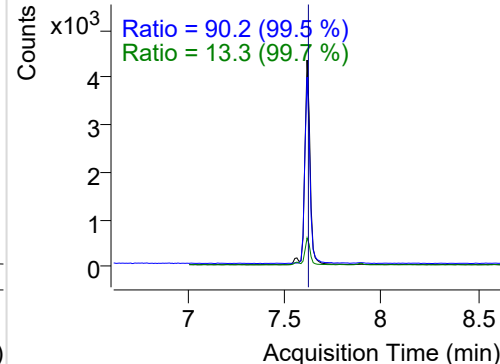


Fluorene

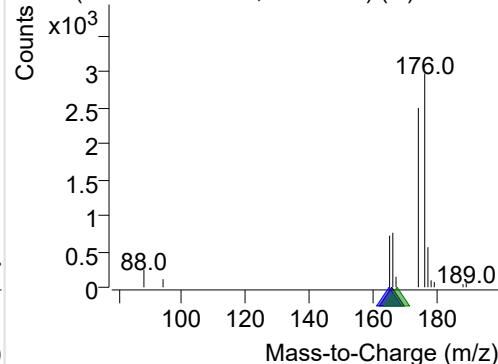
+ Selected Ion (166.0) 230112-PAHs-005.D



166.0, 165.0, 167.0

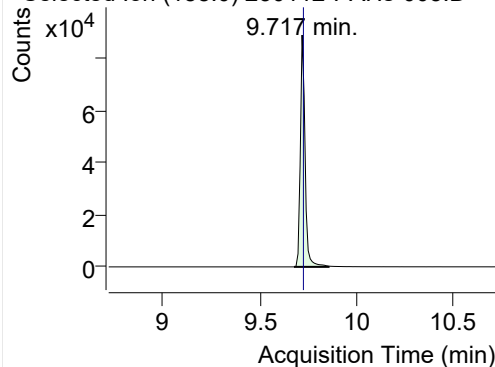


+ SIM (7.575-7.753 min, 18 scans) (**) 230112

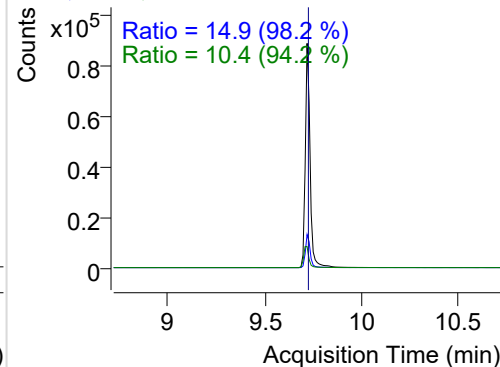


IS-D10-Phenanthrene

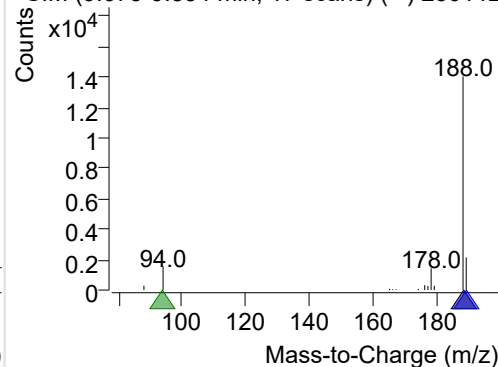
+ Selected Ion (188.0) 230112-PAHs-005.D



188.0, 189.0, 94.0

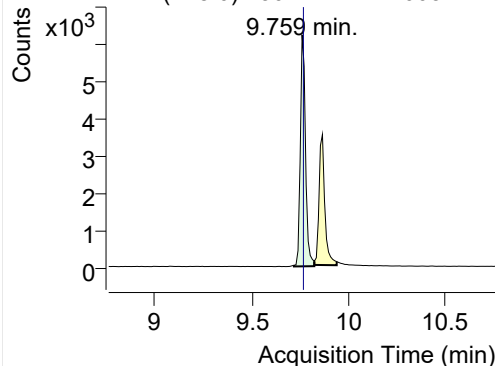


+ SIM (9.675-9.854 min, 17 scans) (**) 230112

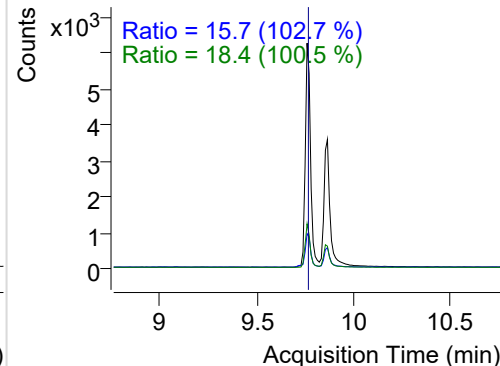


Phenanthrene

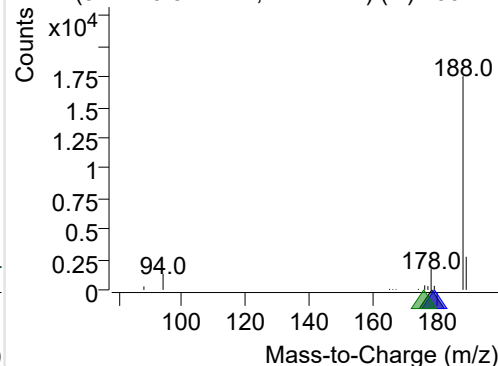
+ Selected Ion (178.0) 230112-PAHs-005.D



178.0, 179.0, 176.0

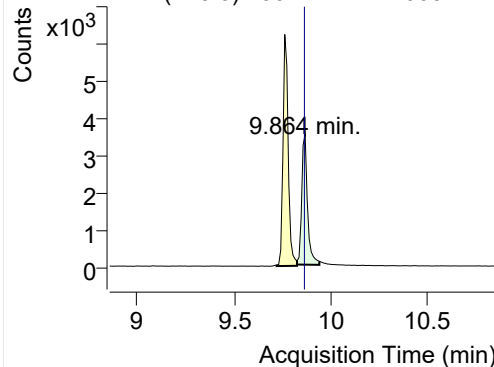


+ SIM (9.717-9.822 min, 11 scans) (**) 230112

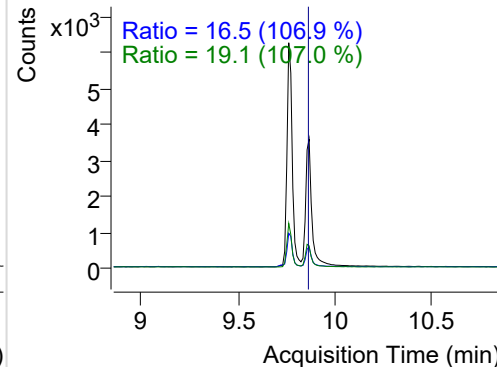


Anthracene

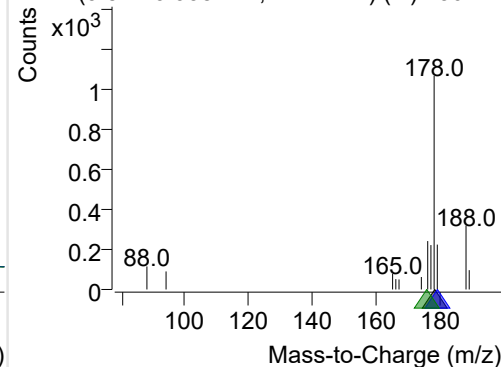
+ Selected Ion (178.0) 230112-PAHs-005.D



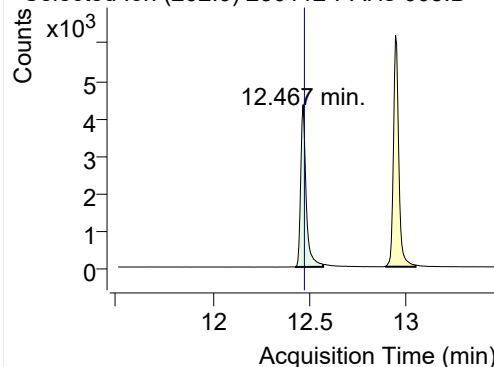
178.0, 179.0, 176.0



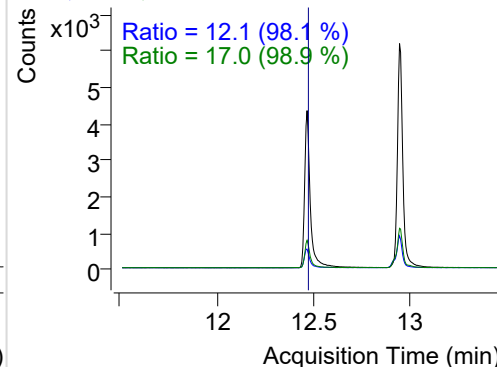
+ SIM (9.822-9.938 min, 12 scans) (**) 230112

**Fluoranthene**

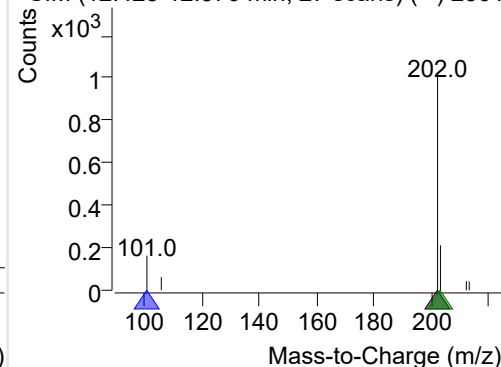
+ Selected Ion (202.0) 230112-PAHs-005.D



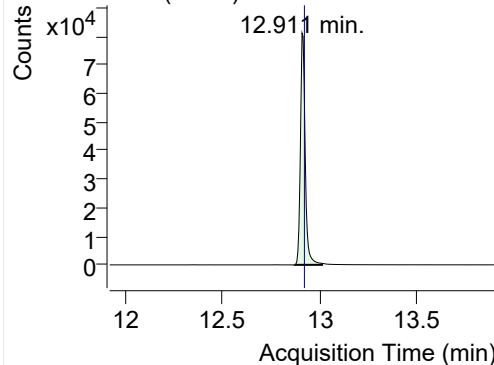
202.0, 101.0, 203.0



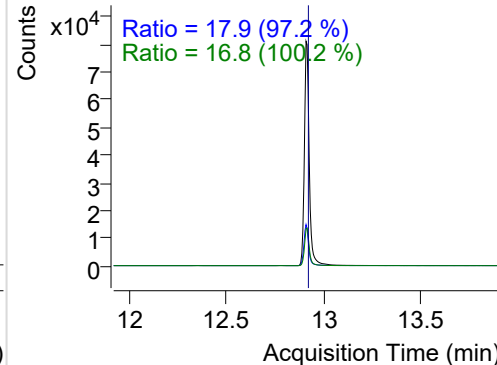
+ SIM (12.425-12.570 min, 27 scans) (**) 230112

**LSS-D10-Pyrene**

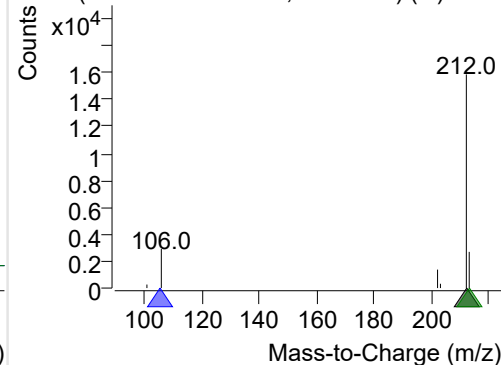
+ Selected Ion (212.0) 230112-PAHs-005.D



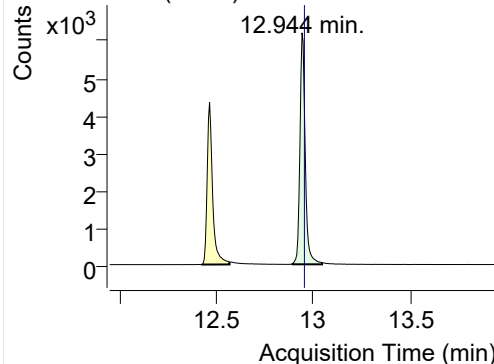
212.0, 106.0, 213.0



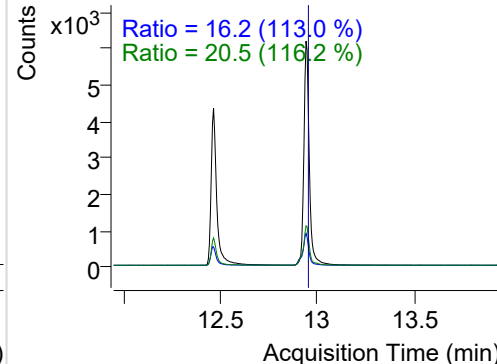
+ SIM (12.873-13.014 min, 27 scans) (**) 230112

**Pyrene**

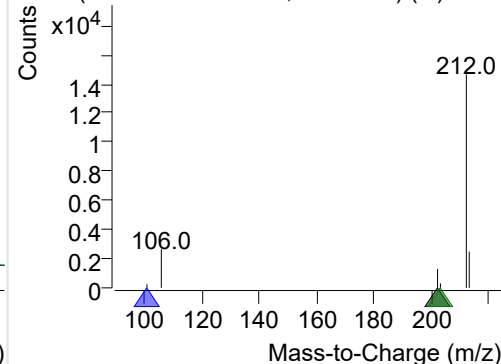
+ Selected Ion (202.0) 230112-PAHs-005.D



202.0, 101.0, 203.0

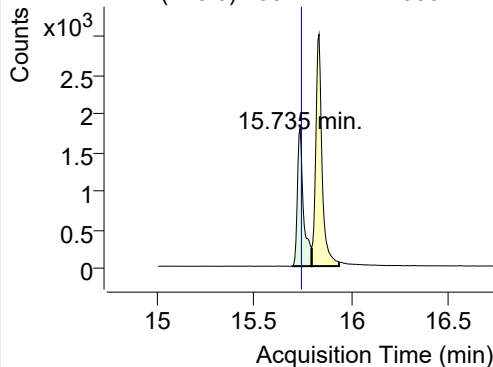


+ SIM (12.895-13.047 min, 29 scans) (**) 230112

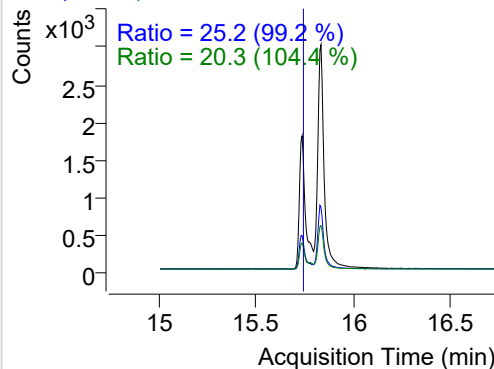


Benz(a)anthracene

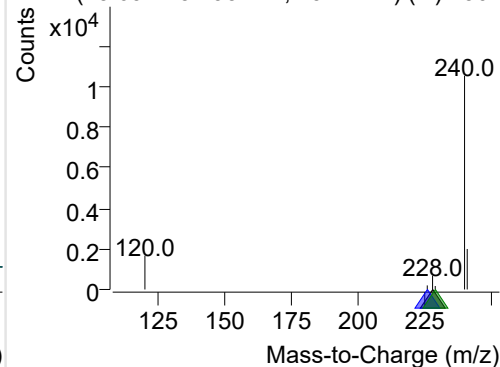
+ Selected Ion (228.0) 230112-PAHs-005.D



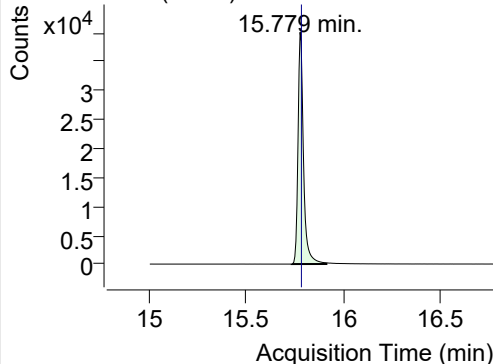
228.0, 226.0, 229.0



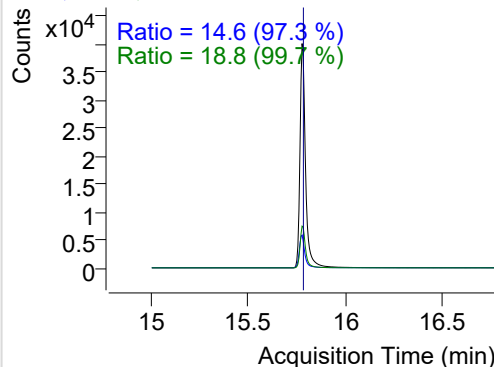
+ SIM (15.692-15.795 min, 19 scans) (**) 2301

**IS-D12-Chrysene**

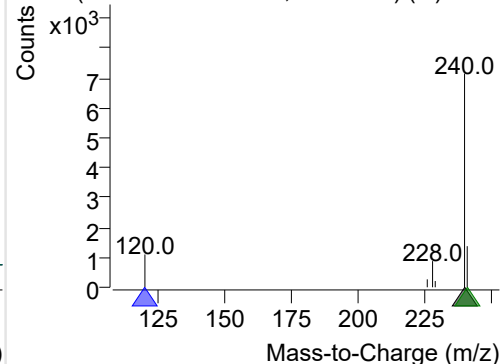
+ Selected Ion (240.0) 230112-PAHs-005.D



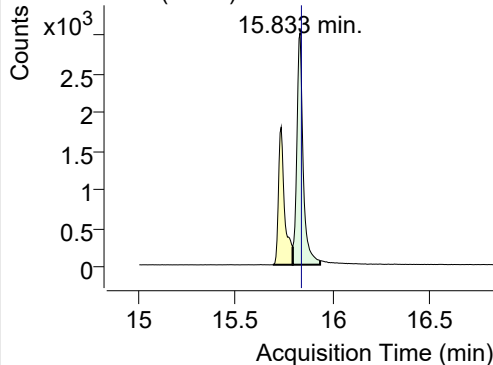
240.0, 120.0, 241.0



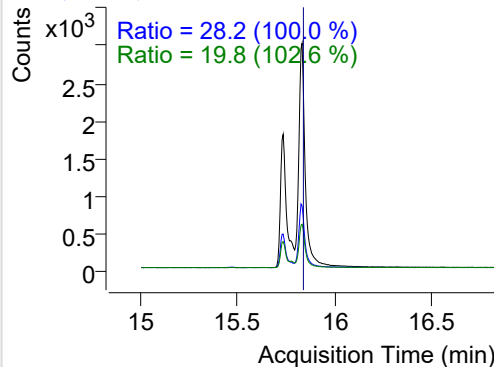
+ SIM (15.735-15.914 min, 34 scans) (**) 2301

**Chrysene**

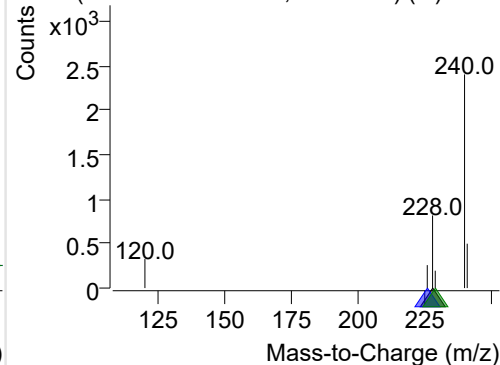
+ Selected Ion (228.0) 230112-PAHs-005.D



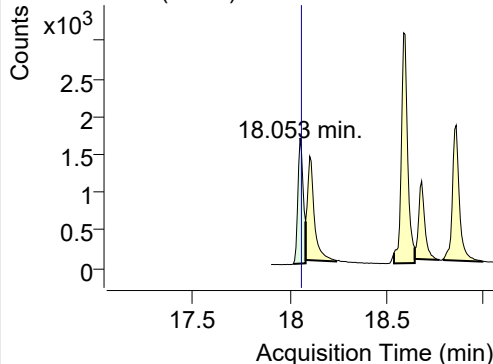
228.0, 226.0, 229.0



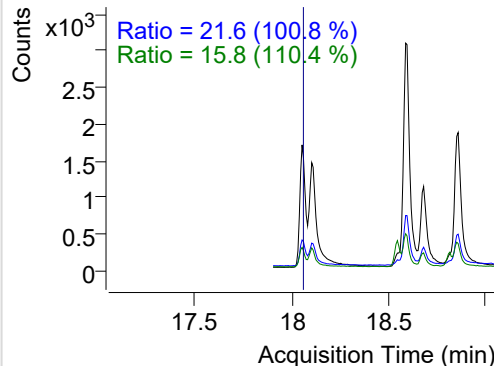
+ SIM (15.795-15.936 min, 27 scans) (**) 2301

**Benzo(b)fluoranthene**

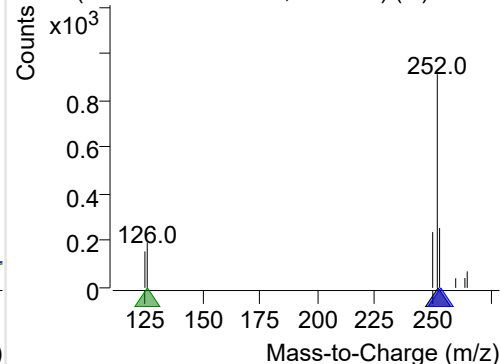
+ Selected Ion (252.0) 230112-PAHs-005.D



252.0, 253.0, 126.0

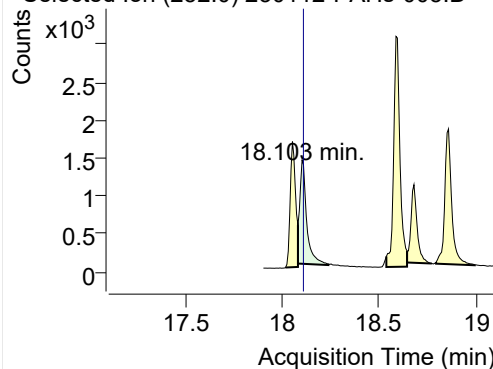


+ SIM (18.018-18.082 min, 9 scans) (**) 23011

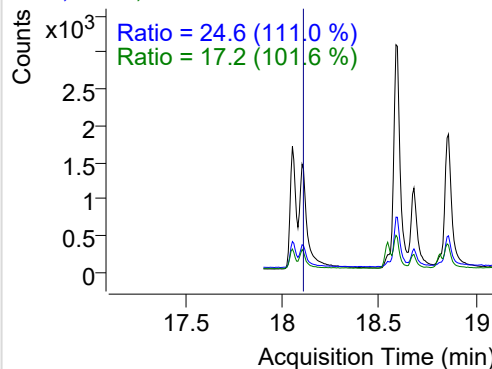


Benzo(k)fluoranthene

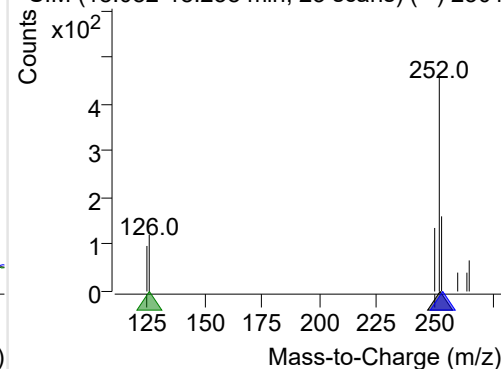
+ Selected Ion (252.0) 230112-PAHs-005.D



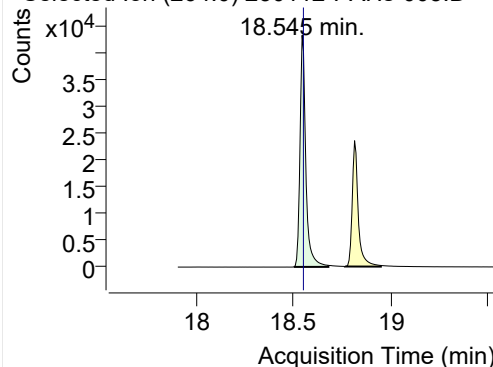
252.0, 253.0, 126.0



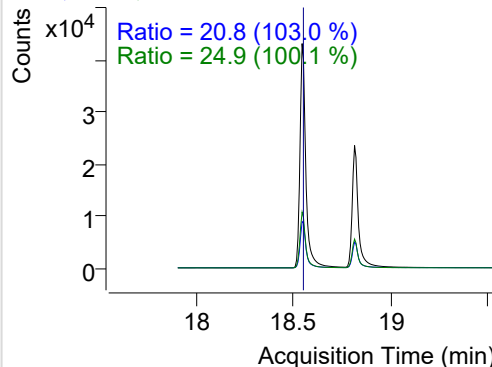
+ SIM (18.082-18.238 min, 23 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

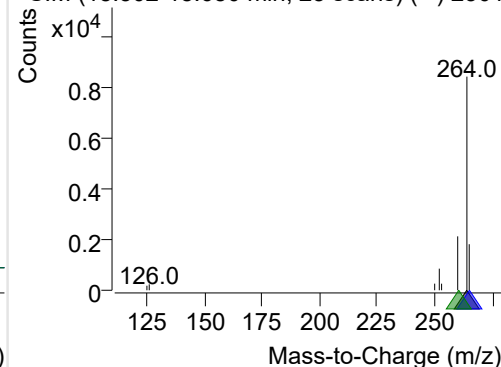
+ Selected Ion (264.0) 230112-PAHs-005.D



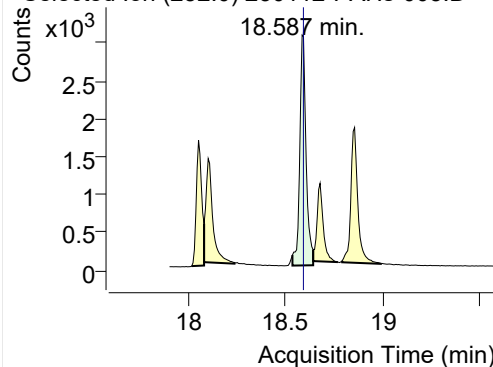
264.0, 265.0, 260.0



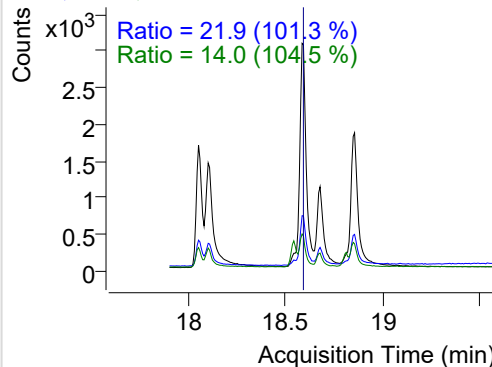
+ SIM (18.502-18.680 min, 25 scans) (**) 2301

**Benzo(e)pyrene**

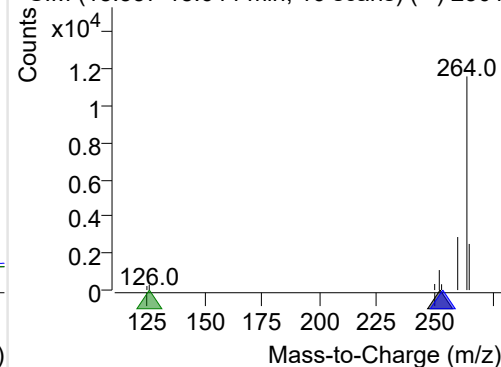
+ Selected Ion (252.0) 230112-PAHs-005.D



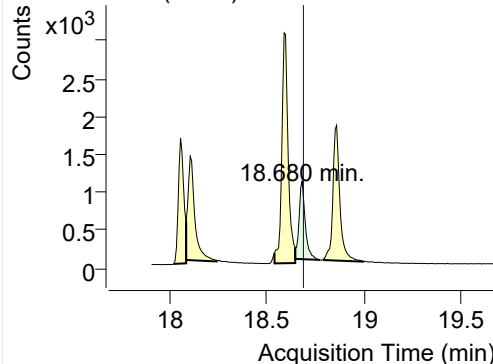
252.0, 253.0, 126.0



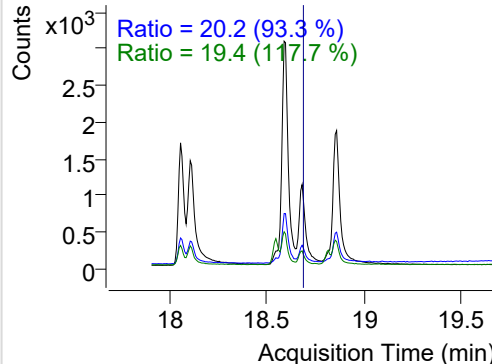
+ SIM (18.537-18.644 min, 16 scans) (**) 2301

**Benzo(a)pyrene**

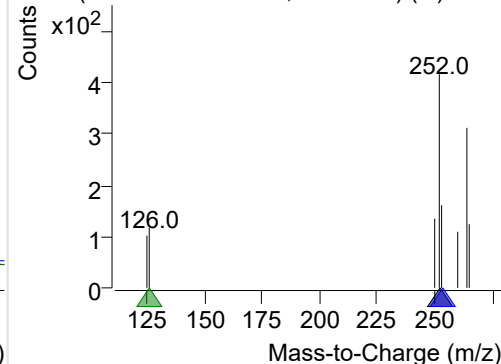
+ Selected Ion (252.0) 230112-PAHs-005.D



252.0, 253.0, 126.0

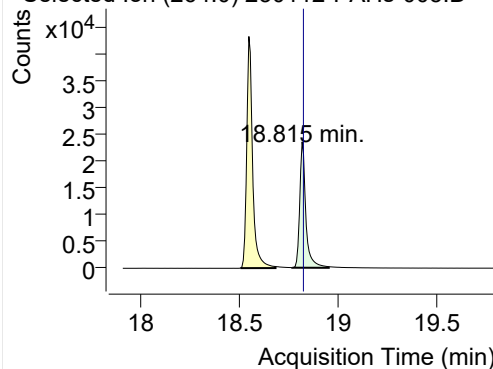


+ SIM (18.644-18.772 min, 18 scans) (**) 2301

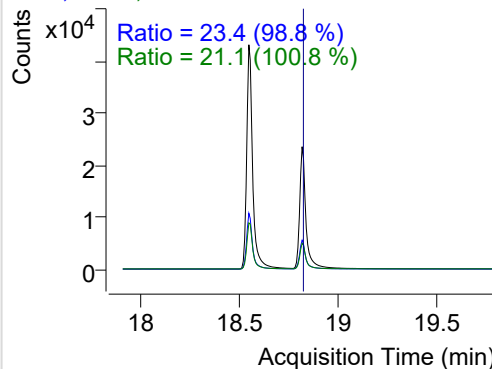


IS-D12-Perylene

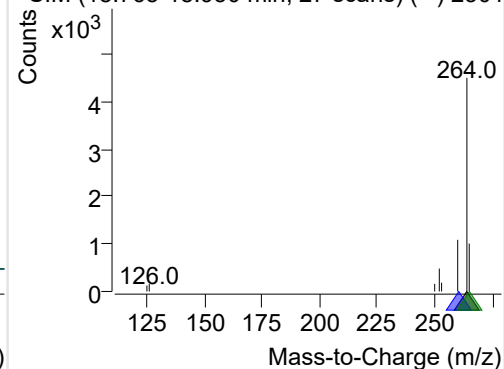
+ Selected Ion (264.0) 230112-PAHs-005.D



264.0, 260.0, 265.0

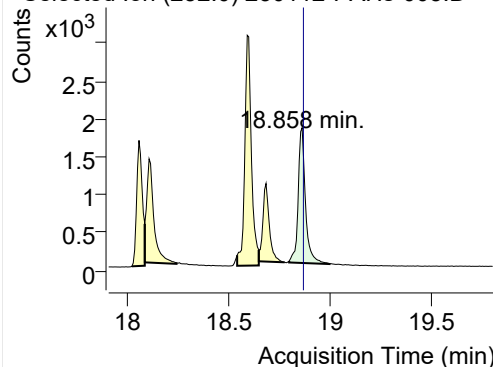


+ SIM (18.765-18.950 min, 27 scans) (**) 2301

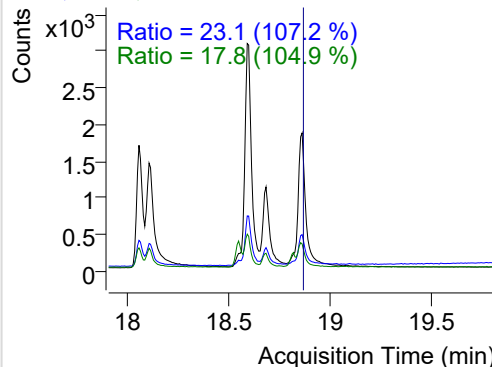


Perylene

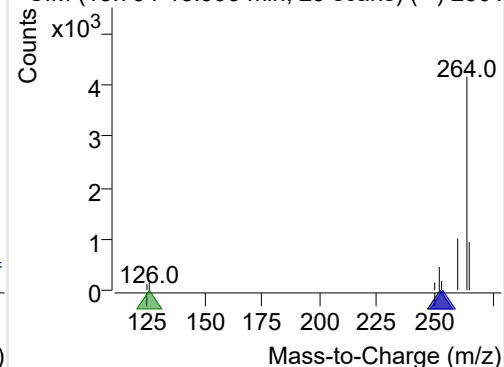
+ Selected Ion (252.0) 230112-PAHs-005.D



252.0, 253.0, 126.0

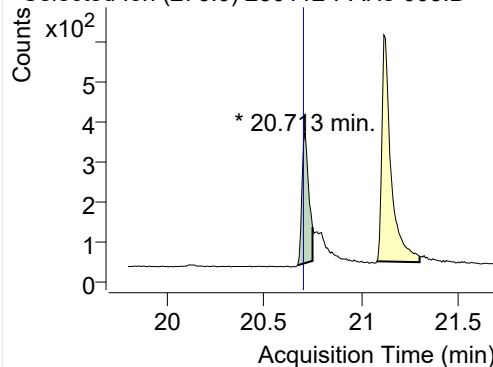


+ SIM (18.794-18.993 min, 29 scans) (**) 2301

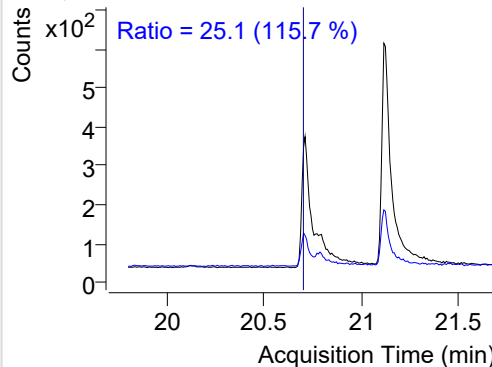


Indeno(1,2,3-c,d)pyrene

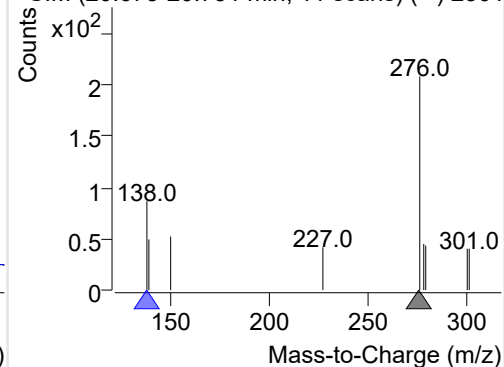
+ Selected Ion (276.0) 230112-PAHs-005.D



276.0, 138.0

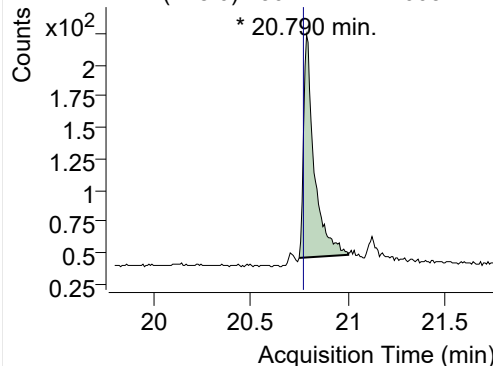


+ SIM (20.675-20.751 min, 11 scans) (**) 2301

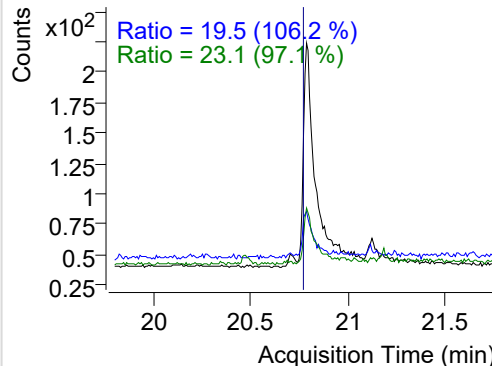


Dibenz(a,h)anthracene

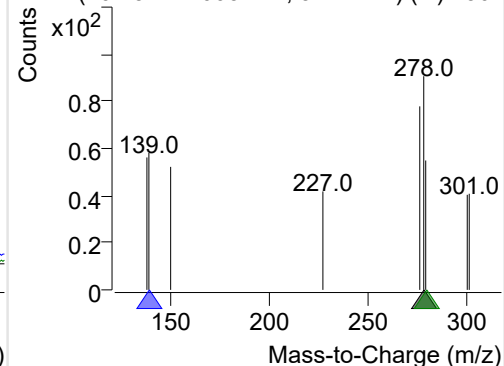
+ Selected Ion (278.0) 230112-PAHs-005.D



278.0, 139.0, 279.0

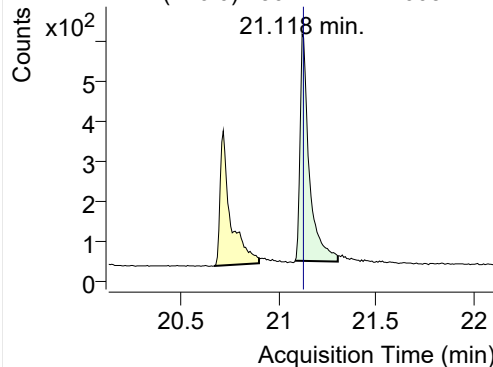


+ SIM (20.751-21.003 min, 34 scans) (**) 2301

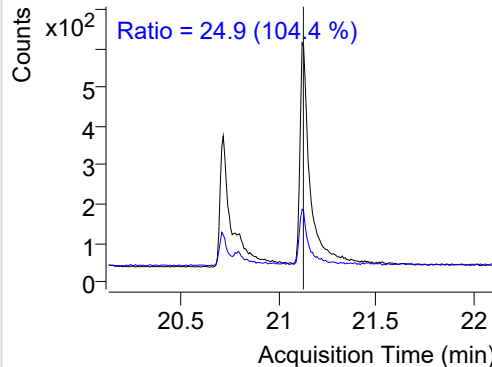


Benzo(g,h,i)perylene

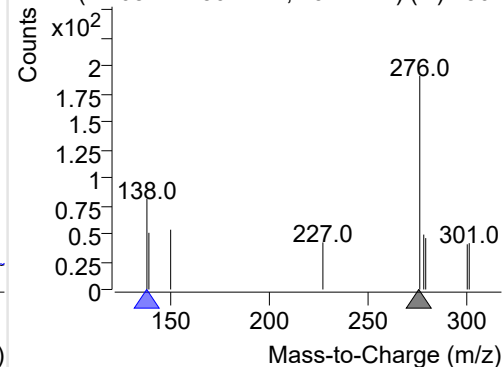
+ Selected Ion (276.0) 230112-PAHs-005.D



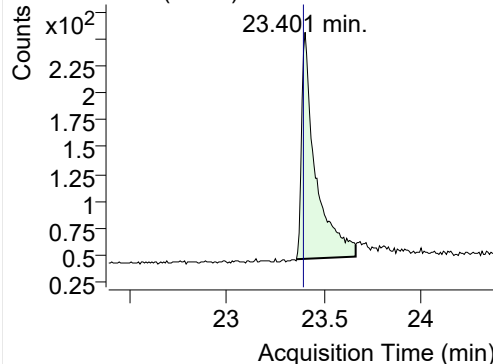
276.0, 138.0



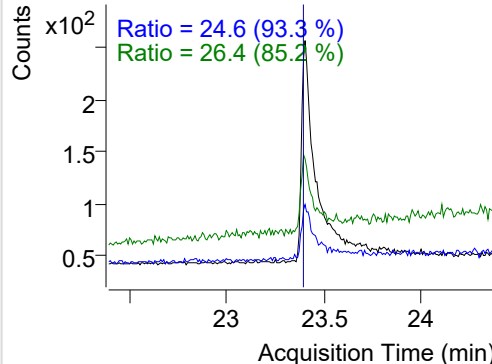
+ SIM (21.082-21.301 min, 29 scans) (**) 2301

**Coronene**

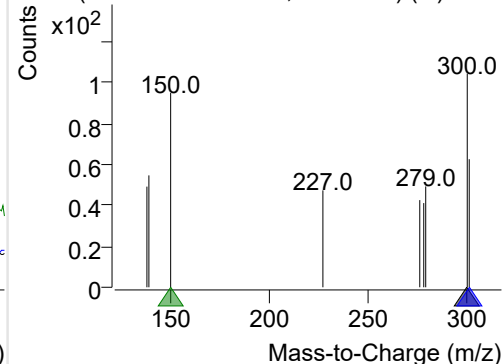
+ Selected Ion (300.0) 230112-PAHs-005.D



300.0, 301.0, 150.0



+ SIM (23.357-23.661 min, 40 scans) (**) 2301



Quantitative Analysis Sample Based Report

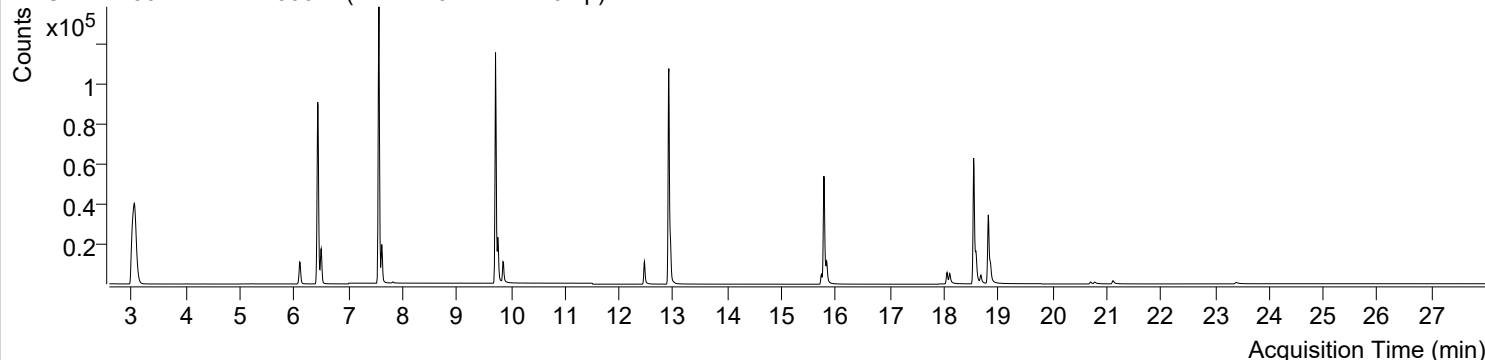


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 2:19:52	Data File	230112-PAHs-006.D
Type	Sample	Name	PAHs-19mix-STD-0.1p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

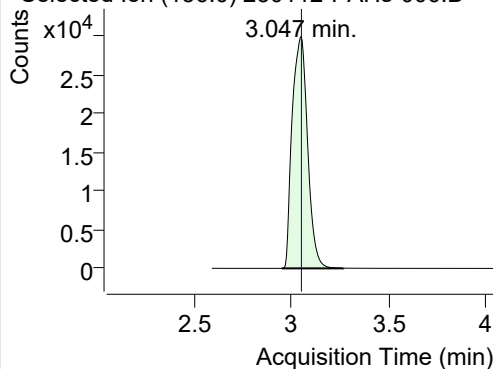
+ TIC SIM 230112-PAHs-006.D (PAHs-19mix-STD-0.1p)



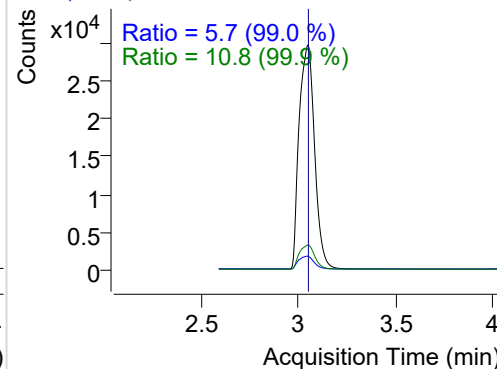
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.047	136.0	164442	29828.66	ND ng/ml	10.8
Naphthalene	3.074	128.0	27673	5009.18	ND ng/ml	12.3
Acenaphthylene	6.102	152.0	18090	8205.77	ND ng/ml	19.2
IS-D10-Acenaphthene	6.433	164.0	88006	43898.66	ND ng/ml	93.1
Acenaphthene	6.498	154.0	12636	6258.01	ND ng/ml	104.9
LSS-D10-Fluorene	7.564	176.0	109944	64542.00	ND ng/ml	90.2
Fluorene	7.617	166.0	15371	8538.30	ND ng/ml	90.2
IS-D10-Phenanthrene	9.717	188.0	149656	92472.93	ND ng/ml	14.8
Phenanthrene	9.759	178.0	22534	12512.28	ND ng/ml	18.3
Anthracene	9.864	178.0	14163	6825.97	ND ng/ml	17.7
Fluoranthene	12.467	202.0	16566	8787.36	ND ng/ml	17.0
LSS-D10-Pyrene	12.916	212.0	137075	80129.30	ND ng/ml	17.9
Pyrene	12.944	202.0	22716	12065.75	ND ng/ml	19.2
Benz(a)anthracene	15.735	228.0	7525	3477.50	ND ng/ml	25.3
IS-D12-Chrysene	15.778	240.0	80483	39926.29	ND ng/ml	18.7
Chrysene	15.833	228.0	13428	6163.67	ND ng/ml	28.0
Benzo(b)fluoranthene	18.053	252.0	6606	3315.51	ND ng/ml	20.8
Benzo(k)fluoranthene	18.103	252.0	7522	2971.80	ND ng/ml	19.8
SS-D12-Benzo(e)pyrene	18.544	264.0	86642	42685.18	ND ng/ml	25.0
Benzo(e)pyrene	18.587	252.0	13418	6143.50	ND ng/ml	21.9
Benzo(a)pyrene	18.680	252.0	4668	2127.10	ND ng/ml	21.9
IS-D12-Perylene	18.815	264.0	51995	23442.41	ND ng/ml	22.9
Perylene	18.858	252.0	8652	3637.23	ND ng/ml	22.9
Indeno(1,2,3-c,d)pytene	20.705	276.0	1710	733.39	ND ng/ml	24.5
Dibenz(a,h)anthracene	20.782	278.0	1577	457.55	ND ng/ml	21.9
Benzo(g,h,i)perylene	21.118	276.0	3742	1199.11	ND ng/ml	26.2
Coronene	23.393	300.0	2152	451.90	ND ng/ml	30.4

IS-D8-Naphthalene

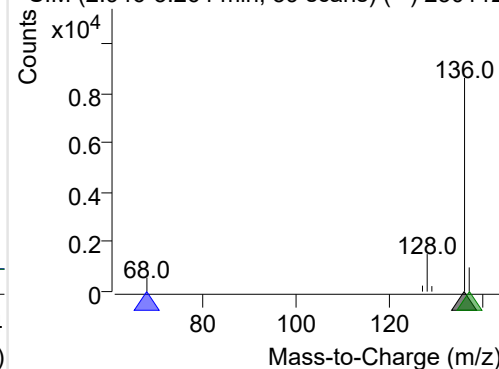
+ Selected Ion (136.0) 230112-PAHs-006.D



136.0, 68.0, 137.0

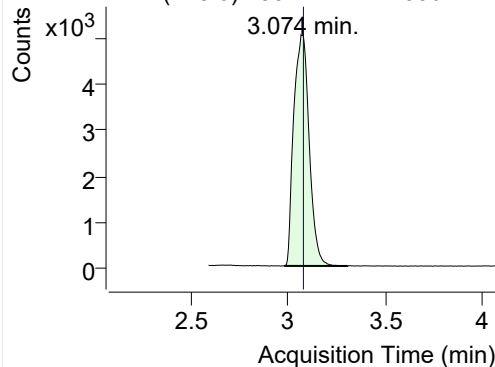


+ SIM (2.946-3.264 min, 59 scans) (**) 230112

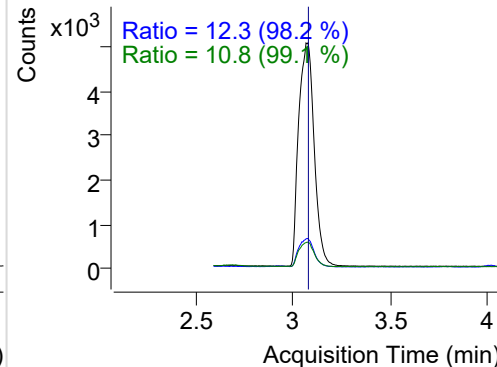


Naphthalene

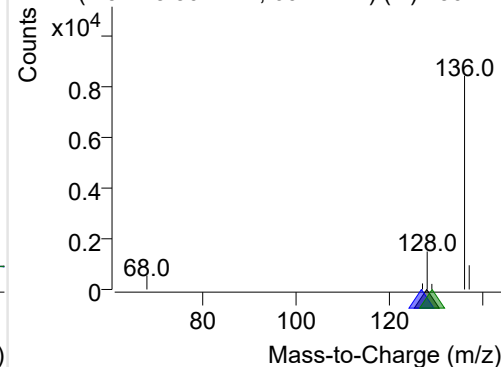
+ Selected Ion (128.0) 230112-PAHs-006.D



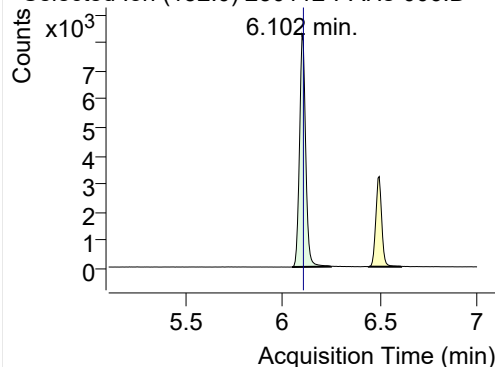
128.0, 127.0, 129.0



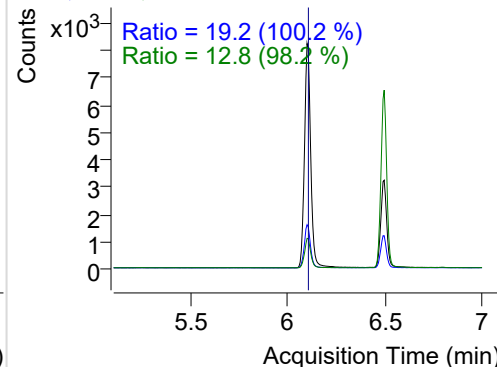
+ SIM (2.977-3.302 min, 60 scans) (**) 230112

**Acenaphthylene**

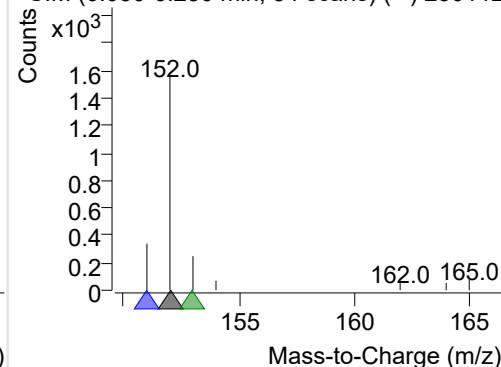
+ Selected Ion (152.0) 230112-PAHs-006.D



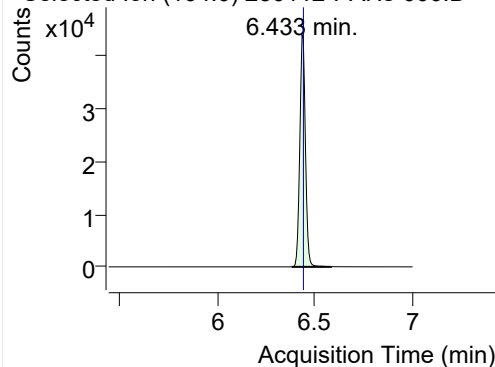
152.0, 151.0, 153.0



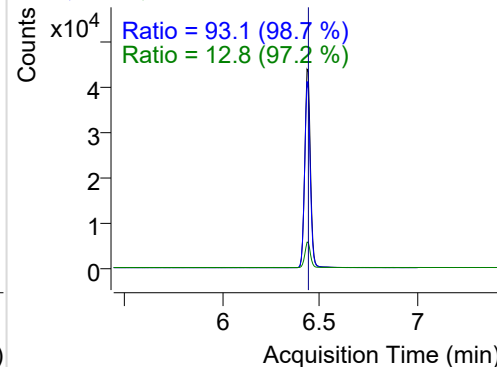
+ SIM (6.050-6.250 min, 34 scans) (**) 230112

**IS-D10-Acenaphthene**

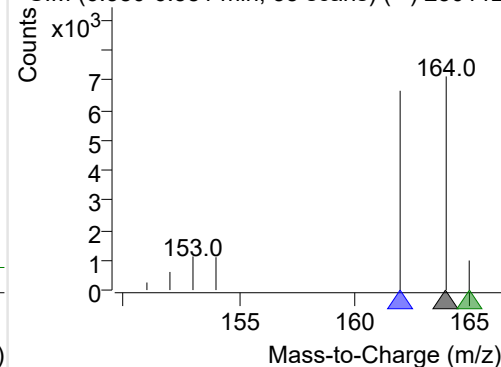
+ Selected Ion (164.0) 230112-PAHs-006.D



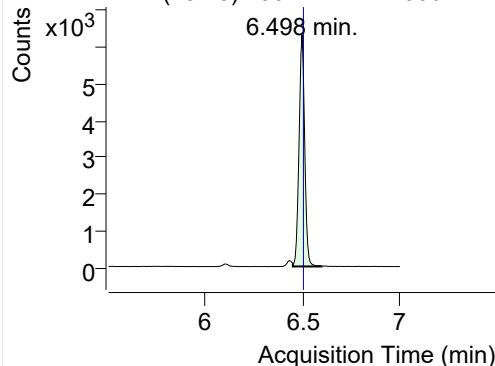
164.0, 162.0, 165.0



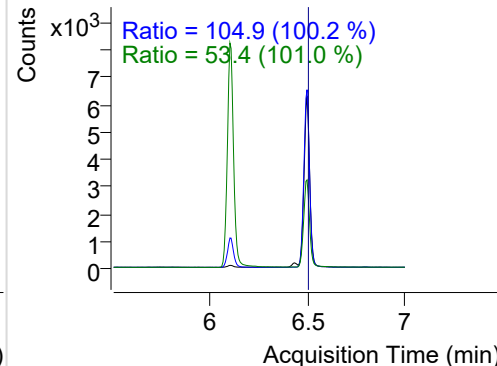
+ SIM (6.380-6.581 min, 35 scans) (**) 230112

**Acenaphthene**

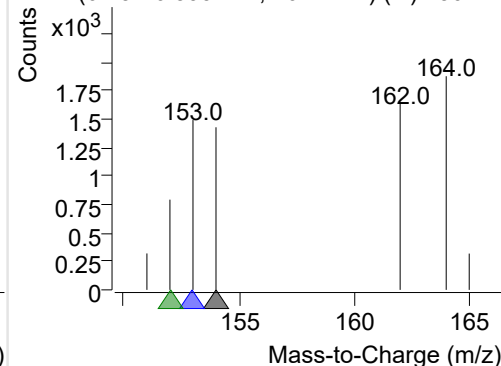
+ Selected Ion (154.0) 230112-PAHs-006.D



154.0, 153.0, 152.0

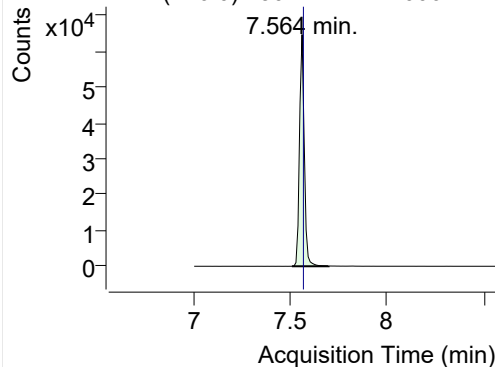


+ SIM (6.451-6.599 min, 26 scans) (**) 230112

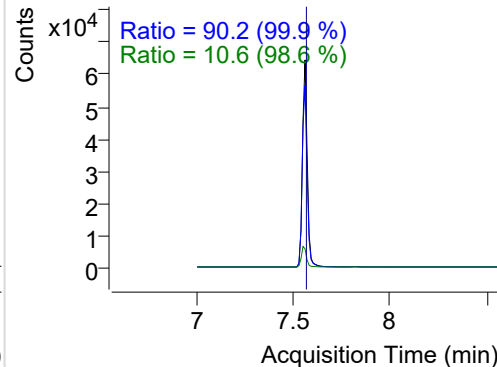


LSS-D10-Fluorene

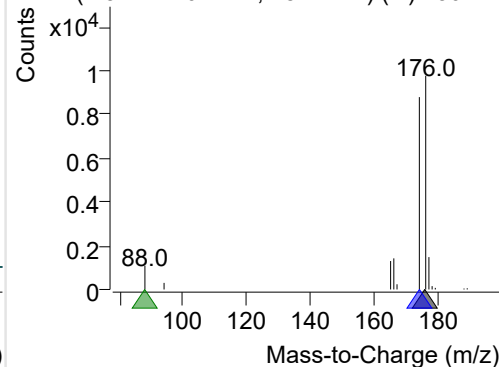
+ Selected Ion (176.0) 230112-PAHs-006.D



176.0, 174.0, 88.0

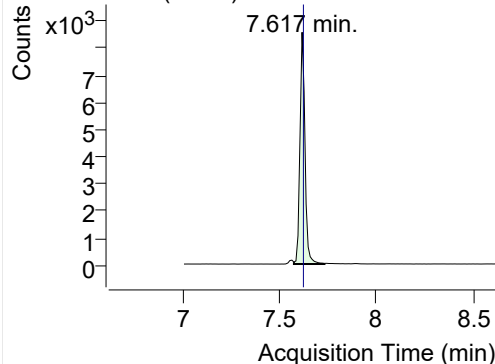


+ SIM (7.512-7.701 min, 18 scans) (**) 230112

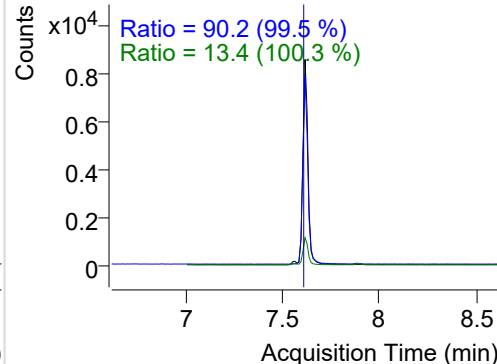


Fluorene

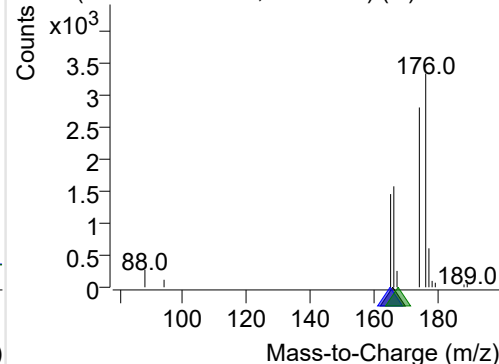
+ Selected Ion (166.0) 230112-PAHs-006.D



166.0, 165.0, 167.0

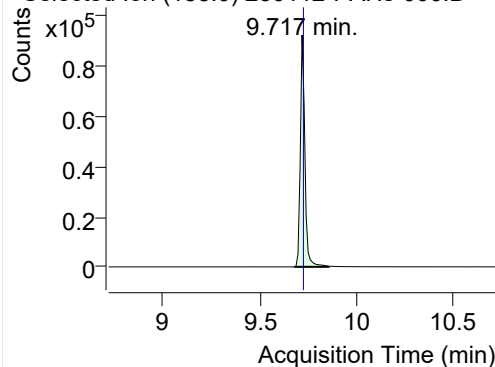


+ SIM (7.575-7.732 min, 16 scans) (**) 230112

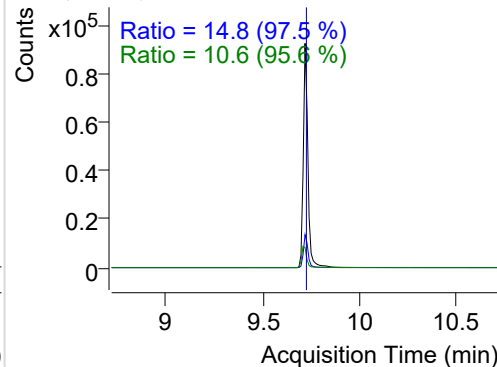


IS-D10-Phenanthrene

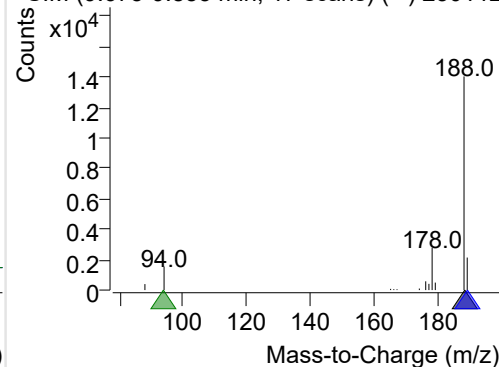
+ Selected Ion (188.0) 230112-PAHs-006.D



188.0, 189.0, 94.0

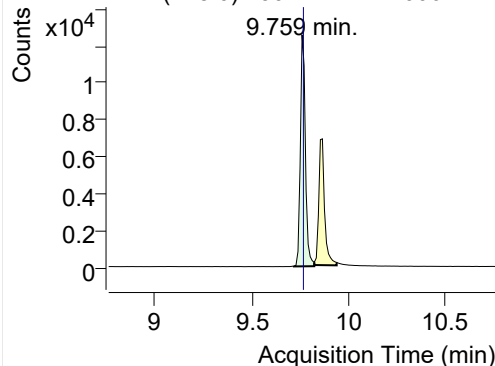


+ SIM (9.675-9.853 min, 17 scans) (**) 230112

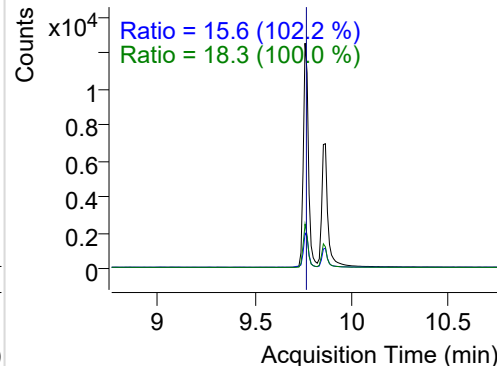


Phenanthrene

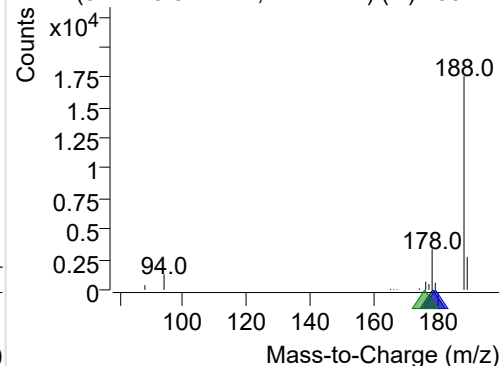
+ Selected Ion (178.0) 230112-PAHs-006.D



178.0, 179.0, 176.0

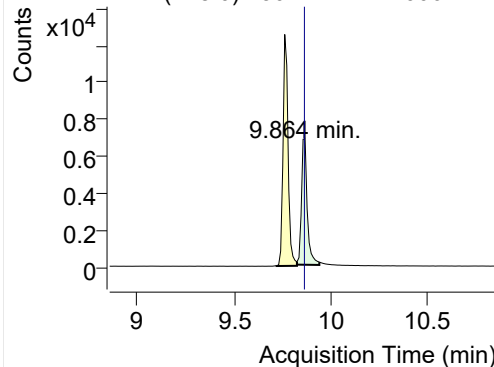


+ SIM (9.717-9.822 min, 11 scans) (**) 230112

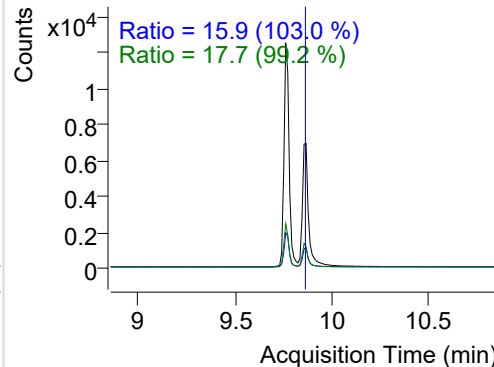


Anthracene

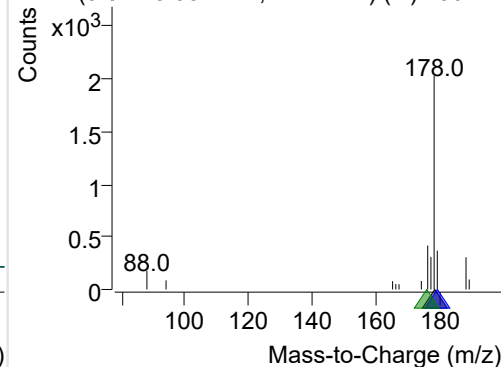
+ Selected Ion (178.0) 230112-PAHs-006.D



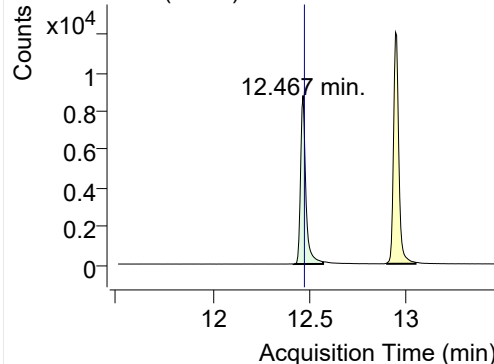
178.0, 179.0, 176.0



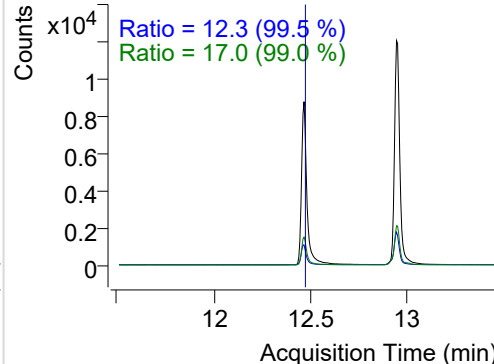
+ SIM (9.822-9.937 min, 12 scans) (**) 230112

**Fluoranthene**

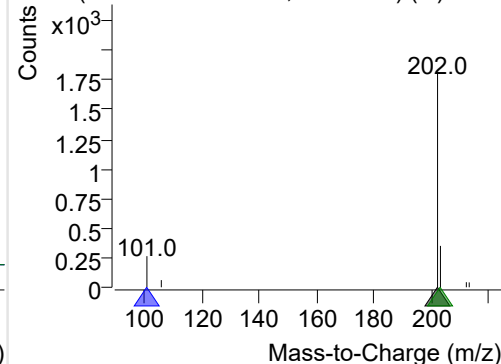
+ Selected Ion (202.0) 230112-PAHs-006.D



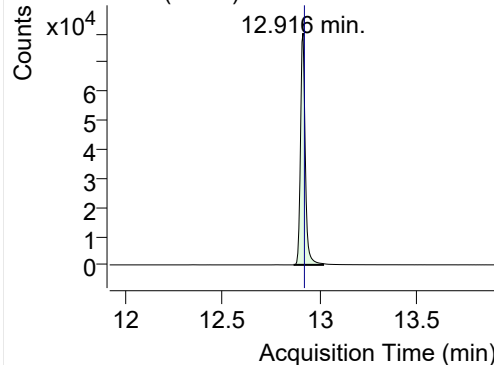
202.0, 101.0, 203.0



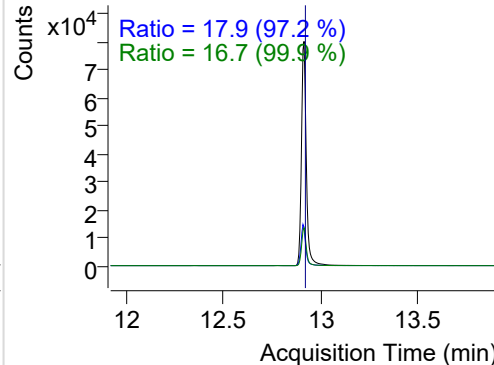
+ SIM (12.418-12.570 min, 29 scans) (**) 2301

**LSS-D10-Pyrene**

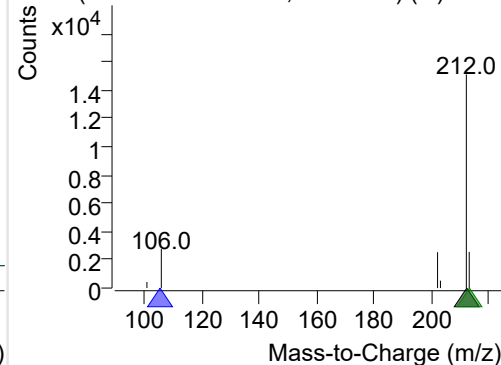
+ Selected Ion (212.0) 230112-PAHs-006.D



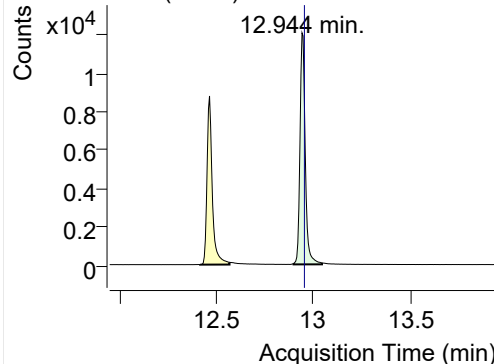
212.0, 106.0, 213.0



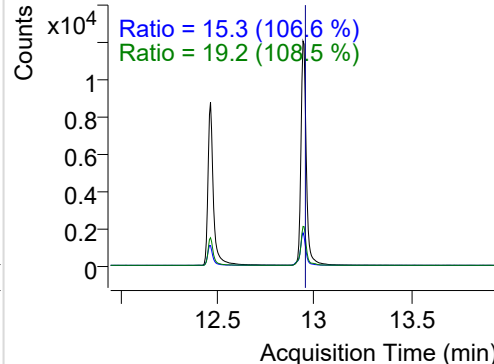
+ SIM (12.868-13.019 min, 28 scans) (**) 2301

**Pyrene**

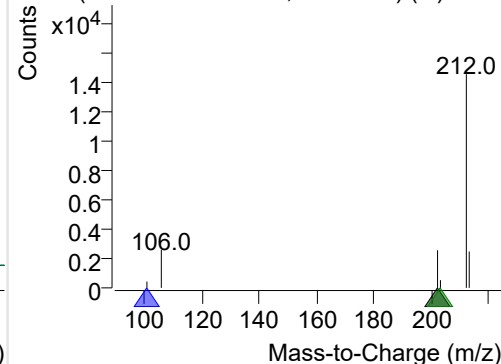
+ Selected Ion (202.0) 230112-PAHs-006.D



202.0, 101.0, 203.0

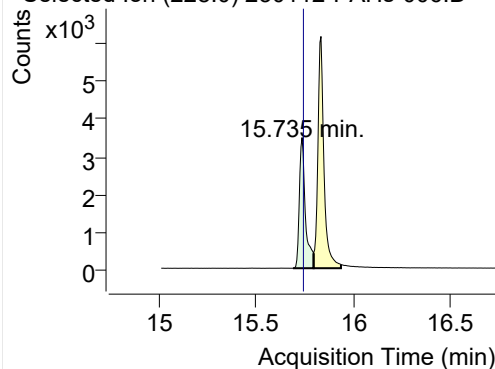


+ SIM (12.900-13.047 min, 28 scans) (**) 2301

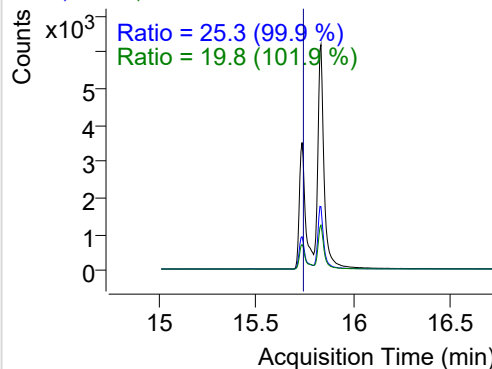


Benz(a)anthracene

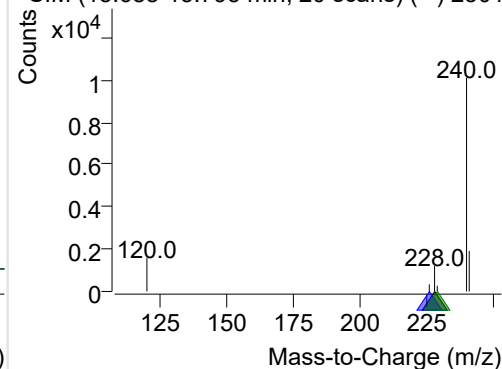
+ Selected Ion (228.0) 230112-PAHs-006.D



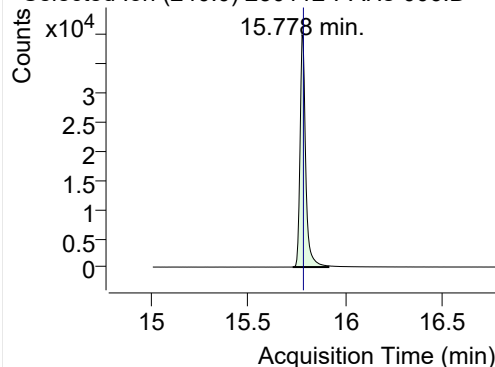
228.0, 226.0, 229.0



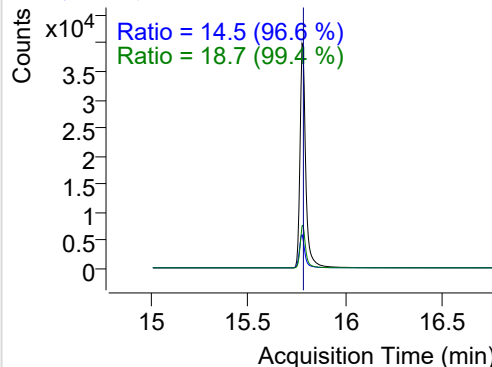
+ SIM (15.688-15.795 min, 20 scans) (**) 2301

**IS-D12-Chrysene**

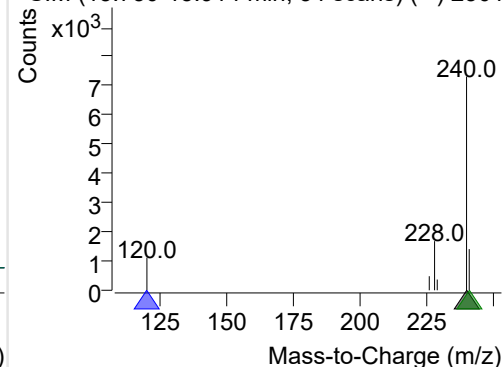
+ Selected Ion (240.0) 230112-PAHs-006.D



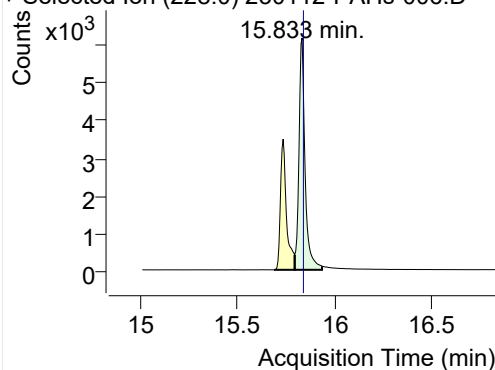
240.0, 120.0, 241.0



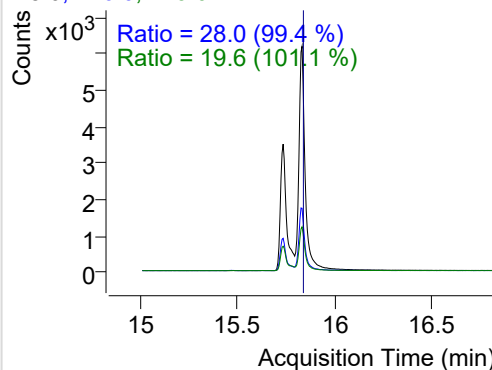
+ SIM (15.730-15.914 min, 34 scans) (**) 2301

**Chrysene**

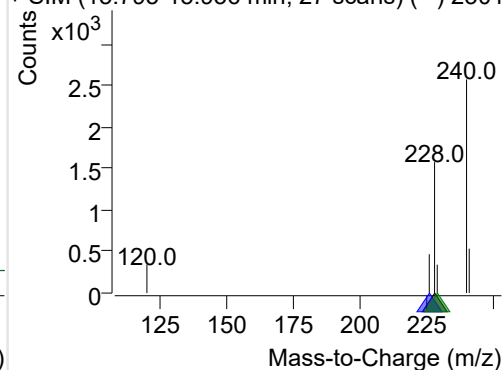
+ Selected Ion (228.0) 230112-PAHs-006.D



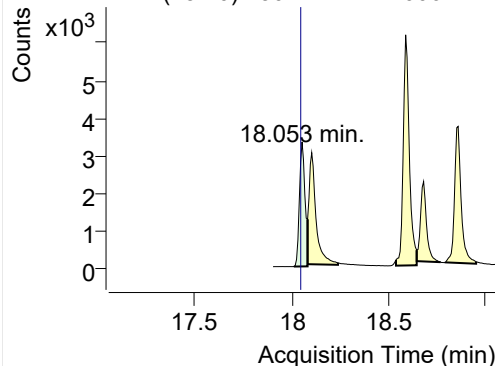
228.0, 226.0, 229.0



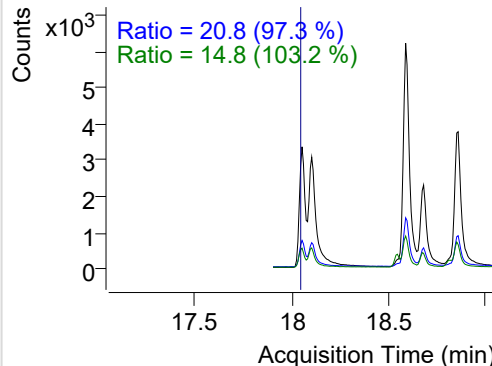
+ SIM (15.795-15.936 min, 27 scans) (**) 2301

**Benzo(b)fluoranthene**

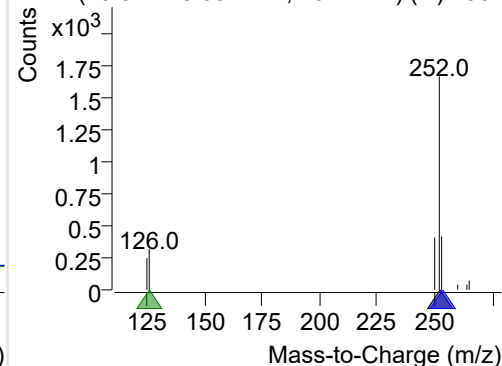
+ Selected Ion (252.0) 230112-PAHs-006.D



252.0, 253.0, 126.0

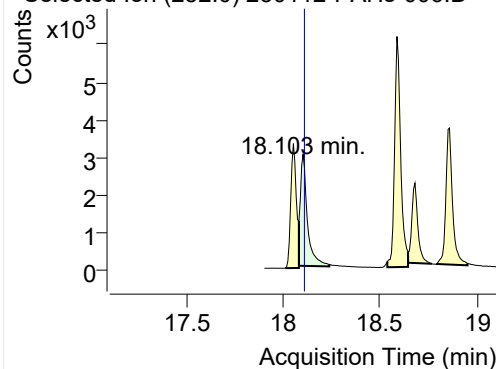


+ SIM (18.011-18.082 min, 10 scans) (**) 2301

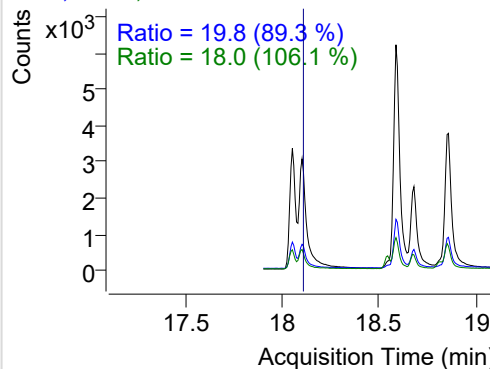


Benzo(k)fluoranthene

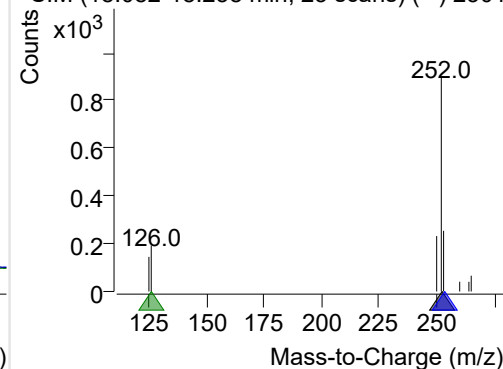
+ Selected Ion (252.0) 230112-PAHs-006.D



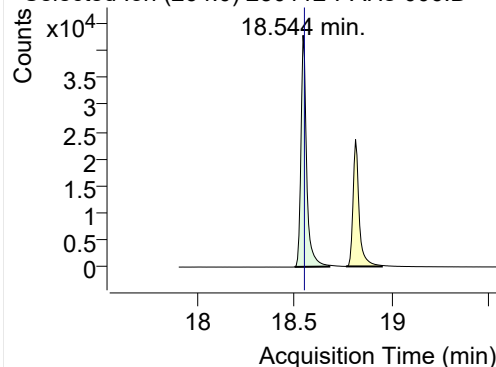
252.0, 253.0, 126.0



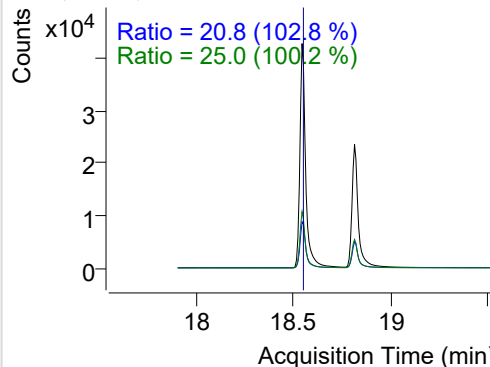
+ SIM (18.082-18.238 min, 23 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

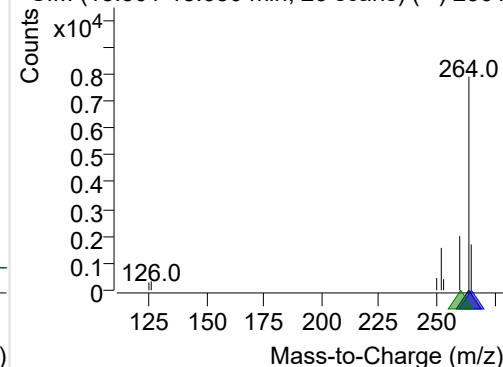
+ Selected Ion (264.0) 230112-PAHs-006.D



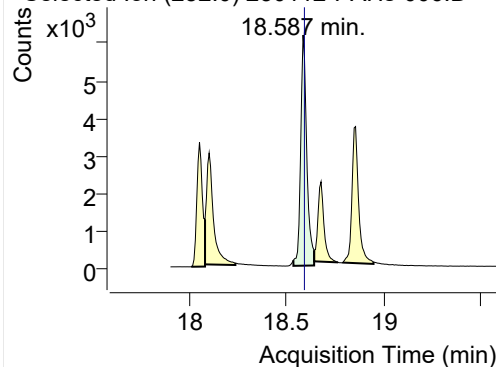
264.0, 265.0, 260.0



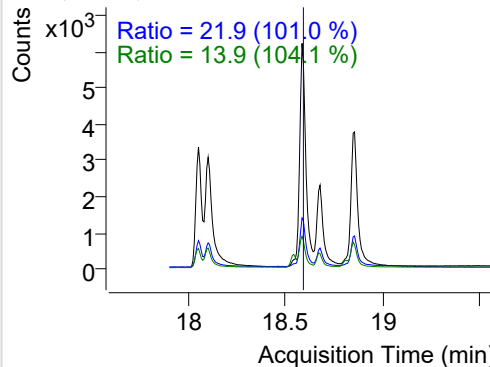
+ SIM (18.501-18.680 min, 26 scans) (**) 2301

**Benzo(e)pyrene**

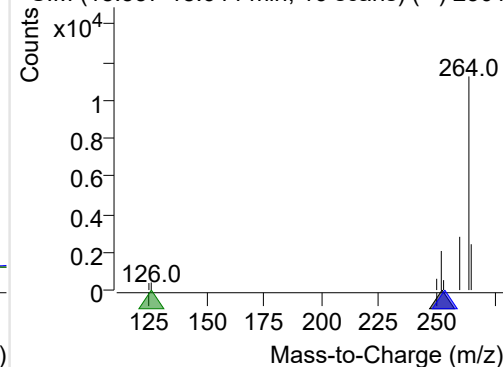
+ Selected Ion (252.0) 230112-PAHs-006.D



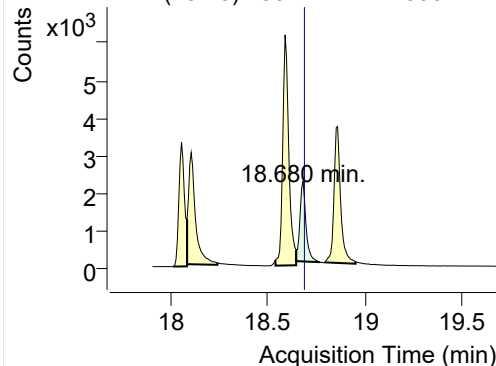
252.0, 253.0, 126.0



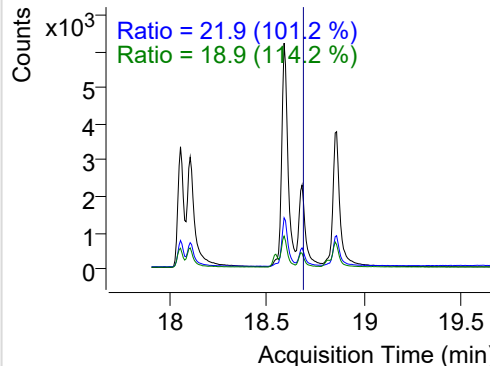
+ SIM (18.537-18.644 min, 16 scans) (**) 2301

**Benzo(a)pyrene**

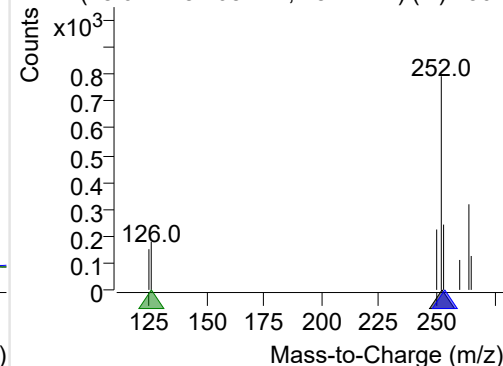
+ Selected Ion (252.0) 230112-PAHs-006.D



252.0, 253.0, 126.0

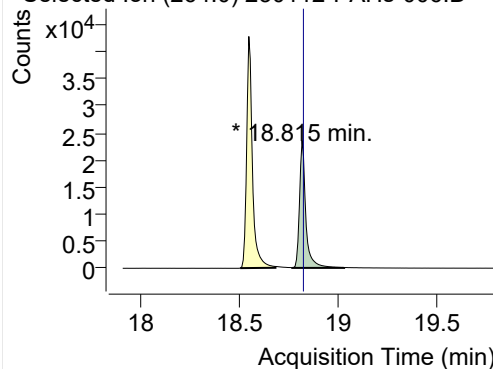


+ SIM (18.644-18.768 min, 18 scans) (**) 2301

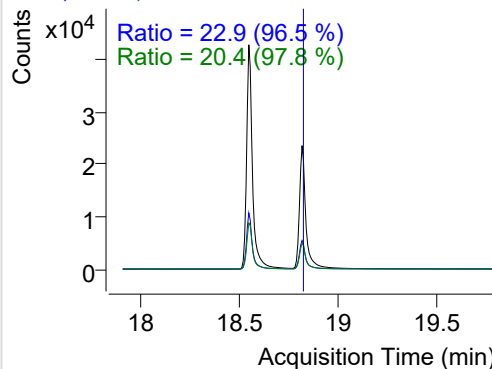


IS-D12-Perylene

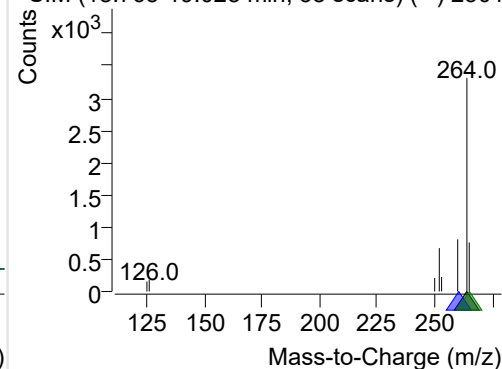
+ Selected Ion (264.0) 230112-PAHs-006.D



264.0, 260.0, 265.0

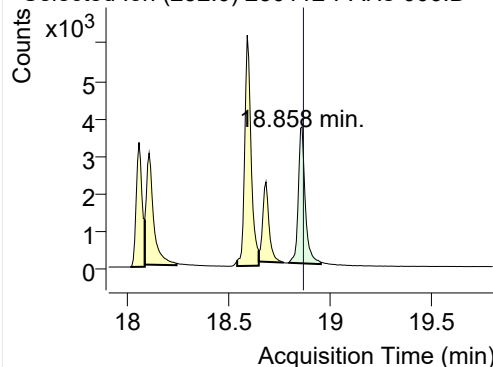


+ SIM (18.765-19.028 min, 38 scans) (**) 2301

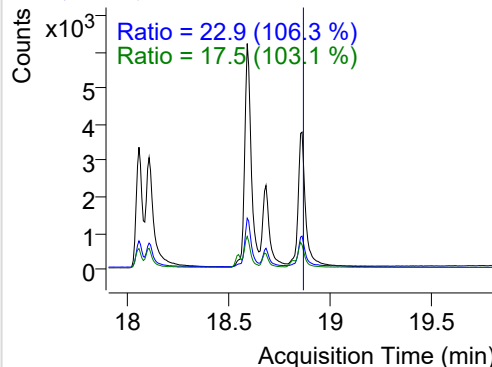


Perylene

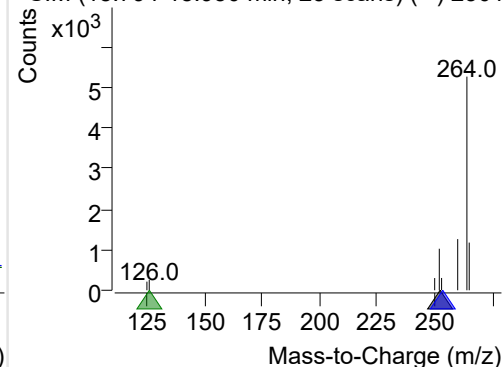
+ Selected Ion (252.0) 230112-PAHs-006.D



252.0, 253.0, 126.0

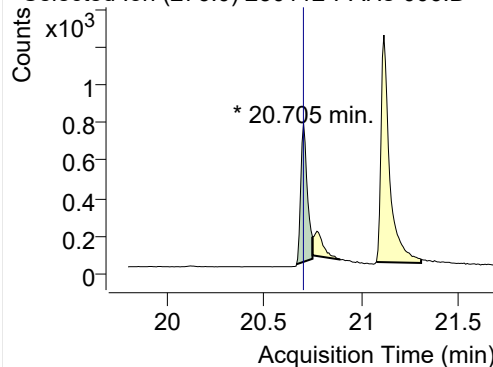


+ SIM (18.794-18.950 min, 23 scans) (**) 2301

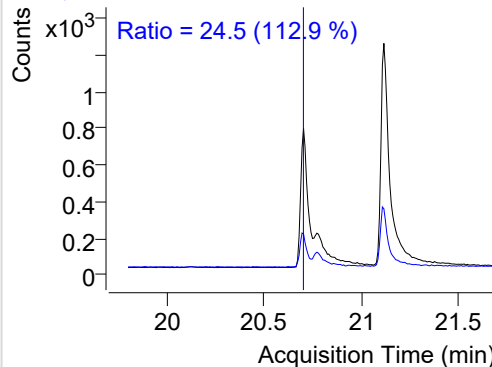


Indeno(1,2,3-c,d)pyrene

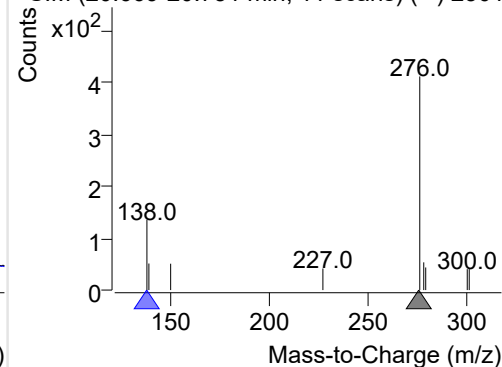
+ Selected Ion (276.0) 230112-PAHs-006.D



276.0, 138.0

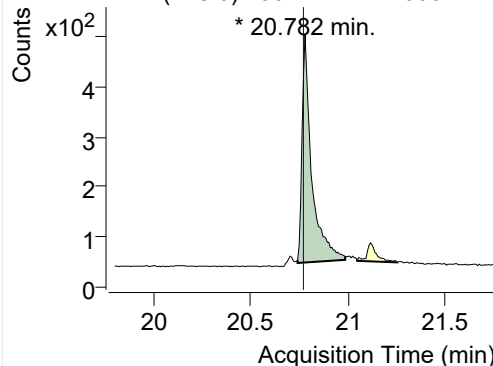


+ SIM (20.669-20.751 min, 11 scans) (**) 2301

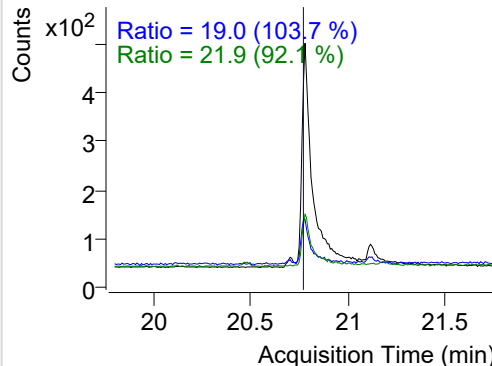


Dibenz(a,h)anthracene

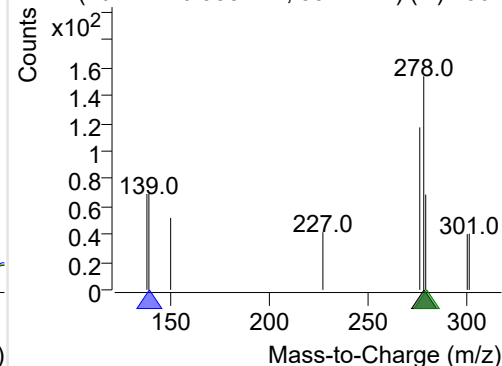
+ Selected Ion (278.0) 230112-PAHs-006.D



278.0, 139.0, 279.0

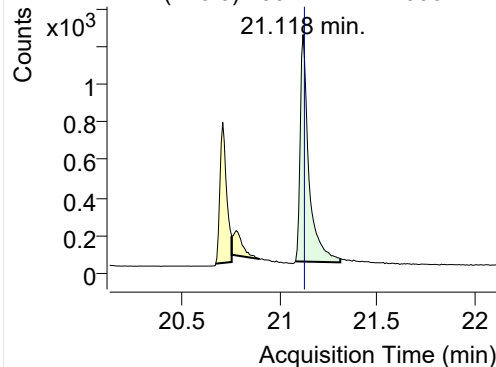


+ SIM (20.744-20.988 min, 33 scans) (**) 2301

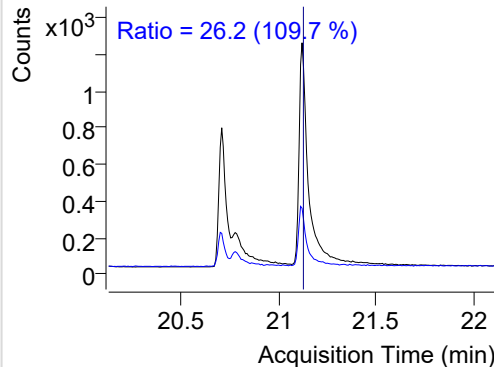


Benzo(g,h,i)perylene

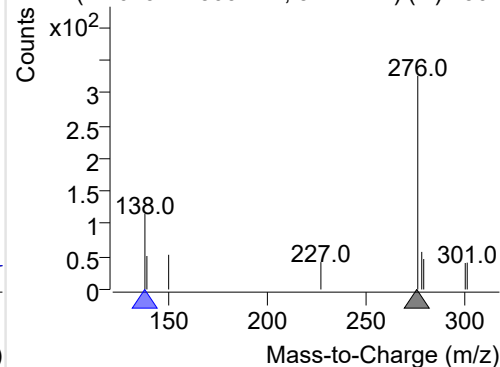
+ Selected Ion (276.0) 230112-PAHs-006.D



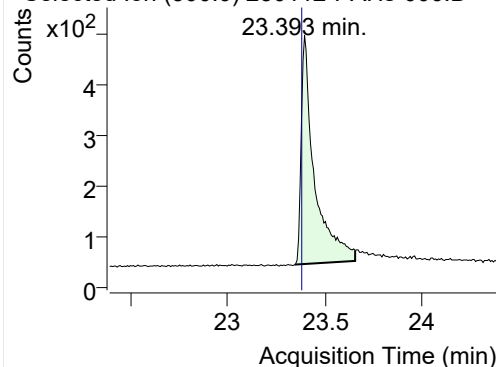
276.0, 138.0



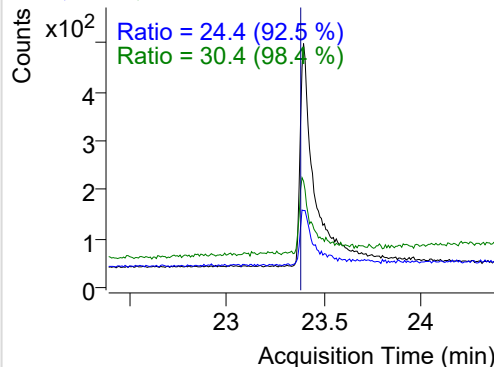
+ SIM (21.079-21.309 min, 31 scans) (**) 2301

**Coronene**

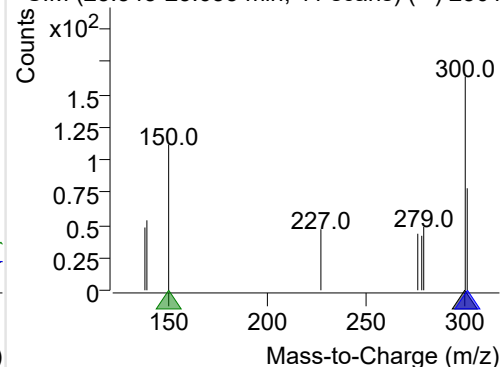
+ Selected Ion (300.0) 230112-PAHs-006.D



300.0, 301.0, 150.0



+ SIM (23.343-23.653 min, 41 scans) (**) 2301



Quantitative Analysis Sample Based Report

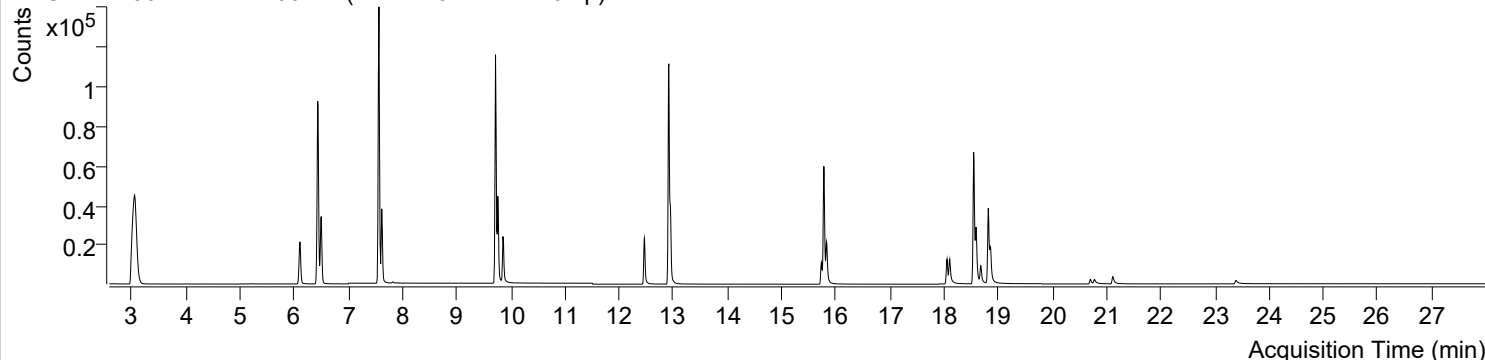


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 2:51:04	Data File	230112-PAHs-007.D
Type	Sample	Name	PAHs-19mix-STD-0.2p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

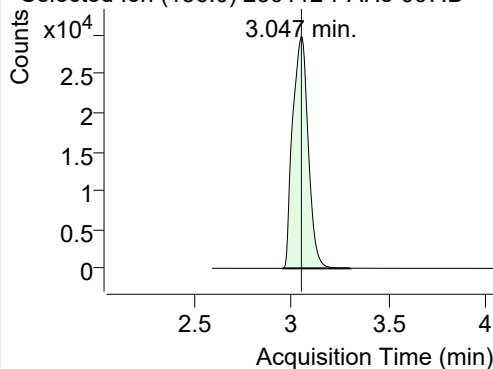
+ TIC SIM 230112-PAHs-007.D (PAHs-19mix-STD-0.2p)



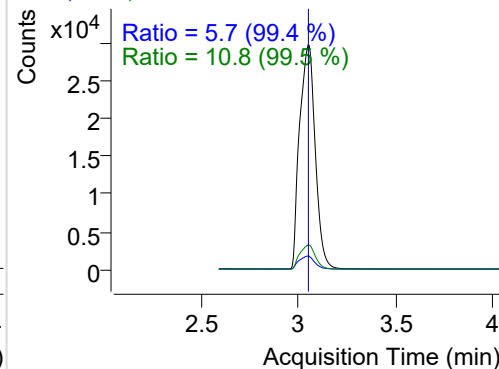
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.047	136.0	165270	29653.19	ND ng/ml	10.8
Naphthalene	3.074	128.0	53179	9531.29	ND ng/ml	12.5
Acenaphthylene	6.108	152.0	35759	15976.77	ND ng/ml	19.0
IS-D10-Acenaphthene	6.433	164.0	87826	44547.39	ND ng/ml	93.5
Acenaphthene	6.498	154.0	24749	12228.64	ND ng/ml	104.9
LSS-D10-Fluorene	7.564	176.0	110382	65176.03	ND ng/ml	90.3
Fluorene	7.617	166.0	30310	17359.44	ND ng/ml	90.9
IS-D10-Phenanthrene	9.717	188.0	151123	92605.82	ND ng/ml	14.9
Phenanthrene	9.759	178.0	45231	26539.01	ND ng/ml	18.4
Anthracene	9.853	178.0	30138	15303.25	ND ng/ml	17.7
Fluoranthene	12.467	202.0	34461	18037.99	ND ng/ml	17.1
LSS-D10-Pyrene	12.916	212.0	137202	82631.93	ND ng/ml	18.1
Pyrene	12.944	202.0	45102	24556.16	ND ng/ml	18.4
Benz(a)anthracene	15.735	228.0	15994	7654.28	ND ng/ml	25.1
IS-D12-Chrysene	15.778	240.0	84869	43807.74	ND ng/ml	18.8
Chrysene	15.827	228.0	27760	12551.35	ND ng/ml	28.0
Benzo(b)fluoranthene	18.053	252.0	13614	7340.08	ND ng/ml	21.4
Benzo(k)fluoranthene	18.103	252.0	19594	7324.49	ND ng/ml	21.7
SS-D12-Benzo(e)pyrene	18.544	264.0	93726	45178.13	ND ng/ml	25.0
Benzo(e)pyrene	18.587	252.0	27521	12576.23	ND ng/ml	21.7
Benzo(a)pyrene	18.680	252.0	12318	4925.94	ND ng/ml	18.1
IS-D12-Perylene	18.815	264.0	54538	25711.05	ND ng/ml	23.1
Perylene	18.858	252.0	19901	7906.49	ND ng/ml	20.2
Indeno(1,2,3-c,d)pyrene	20.698	276.0	4163	1774.10	ND ng/ml	23.0
Dibenz(a,h)anthracene	20.774	278.0	3771	1108.22	ND ng/ml	24.0
Benzo(g,h,i)perylene	21.118	276.0	8177	2795.59	ND ng/ml	24.6
Coronene	23.393	300.0	4435	1052.70	ND ng/ml	31.1

IS-D8-Naphthalene

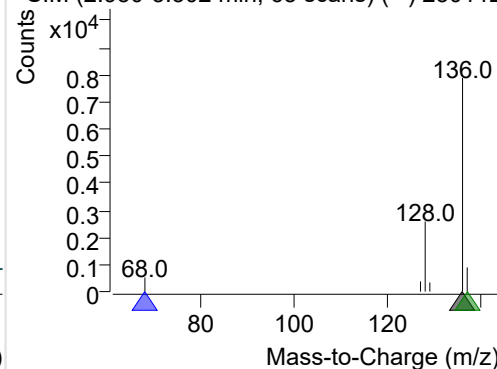
+ Selected Ion (136.0) 230112-PAHs-007.D



136.0, 68.0, 137.0

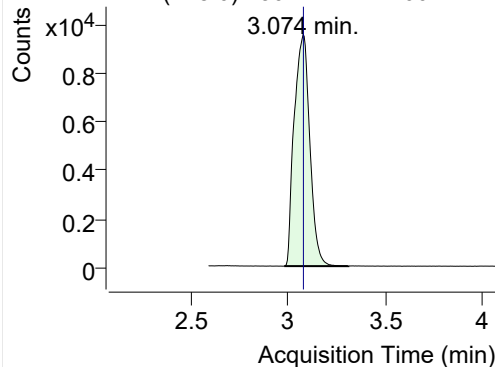


+ SIM (2.950-3.302 min, 65 scans) (**) 230112

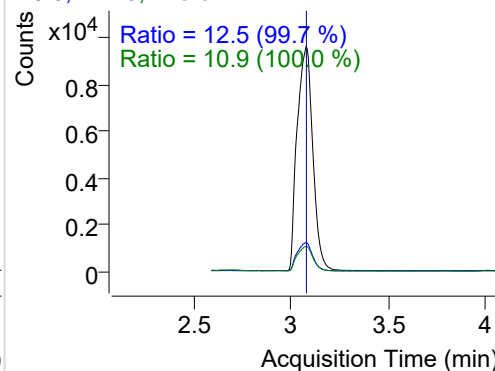


Naphthalene

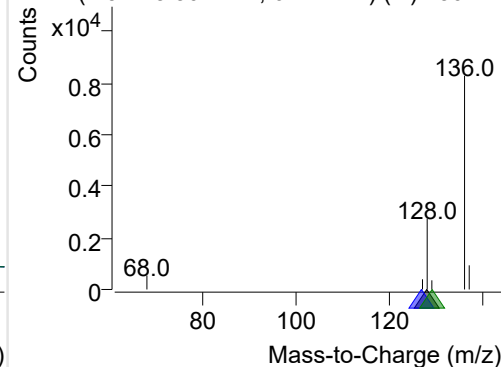
+ Selected Ion (128.0) 230112-PAHs-007.D



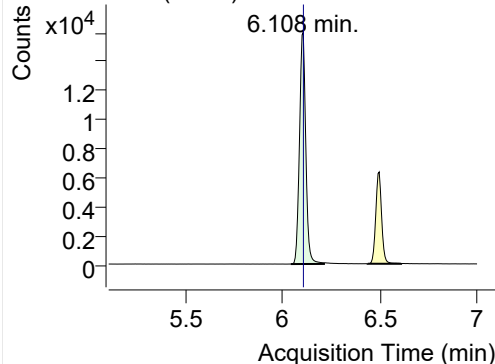
128.0, 127.0, 129.0



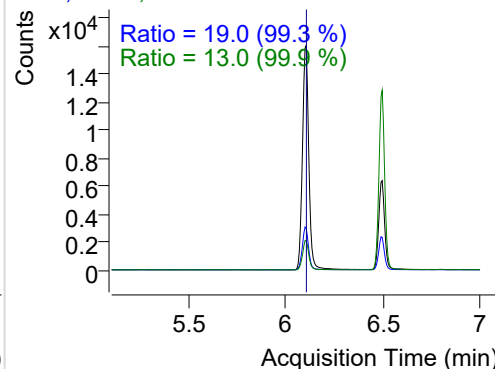
+ SIM (2.977-3.307 min, 61 scans) (**) 230112

**Acenaphthylene**

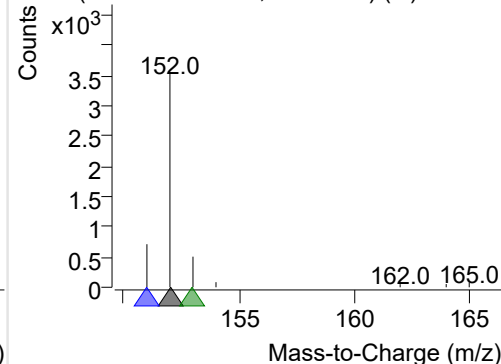
+ Selected Ion (152.0) 230112-PAHs-007.D



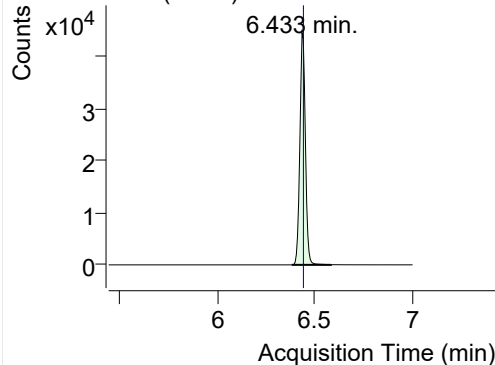
152.0, 151.0, 153.0



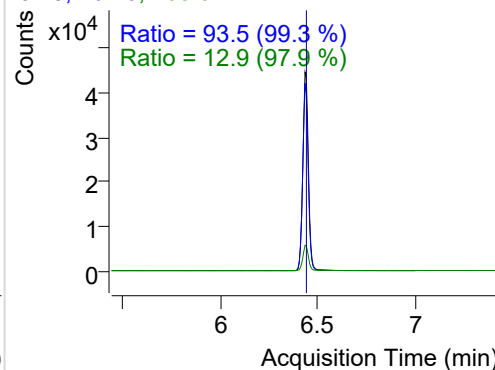
+ SIM (6.044-6.214 min, 29 scans) (**) 230112

**IS-D10-Acenaphthene**

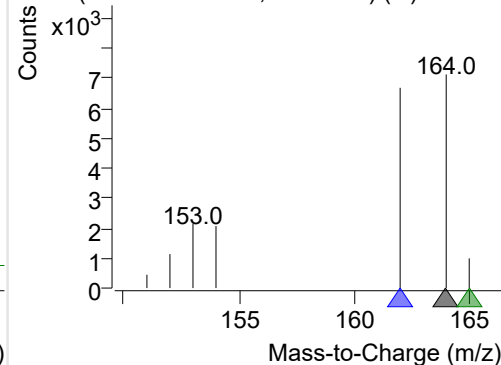
+ Selected Ion (164.0) 230112-PAHs-007.D



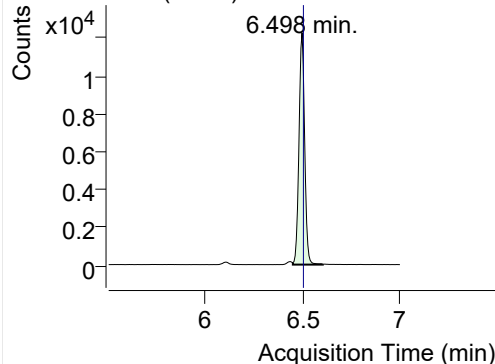
164.0, 162.0, 165.0



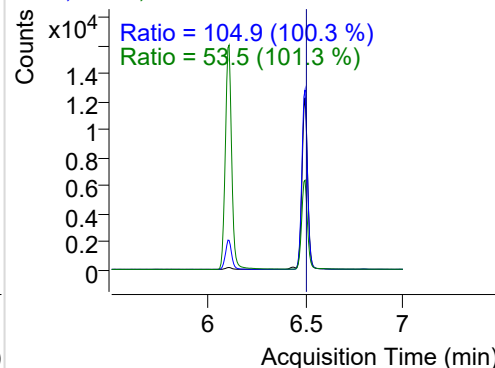
+ SIM (6.380-6.581 min, 35 scans) (**) 230112

**Acenaphthene**

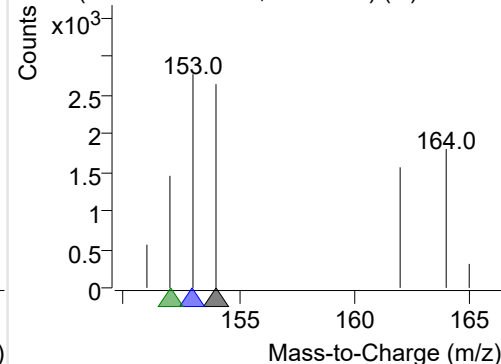
+ Selected Ion (154.0) 230112-PAHs-007.D



154.0, 153.0, 152.0

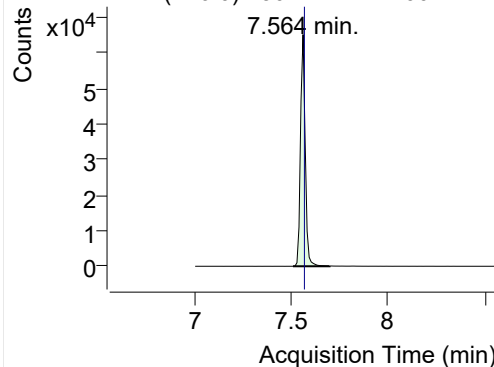


+ SIM (6.451-6.605 min, 27 scans) (**) 230112

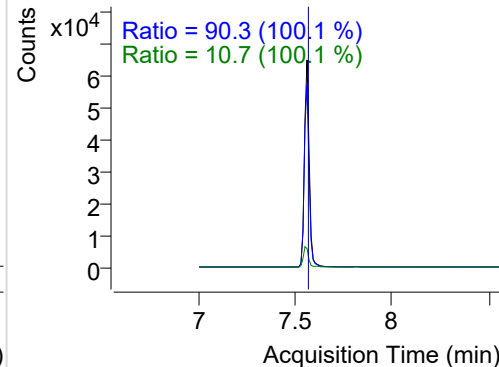


LSS-D10-Fluorene

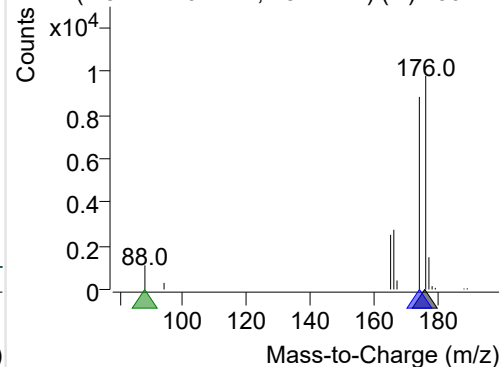
+ Selected Ion (176.0) 230112-PAHs-007.D



176.0, 174.0, 88.0

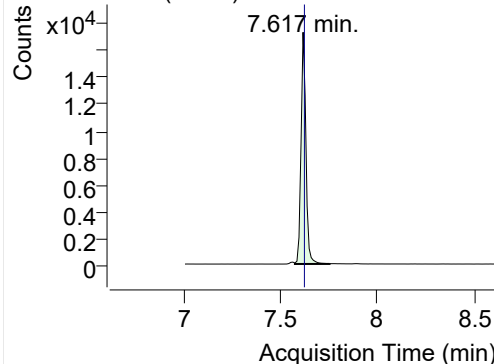


+ SIM (7.512-7.701 min, 18 scans) (**) 230112

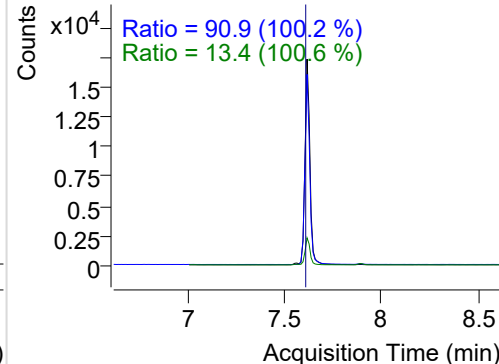


Fluorene

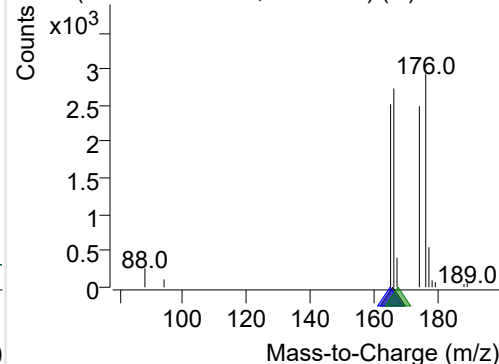
+ Selected Ion (166.0) 230112-PAHs-007.D



166.0, 165.0, 167.0

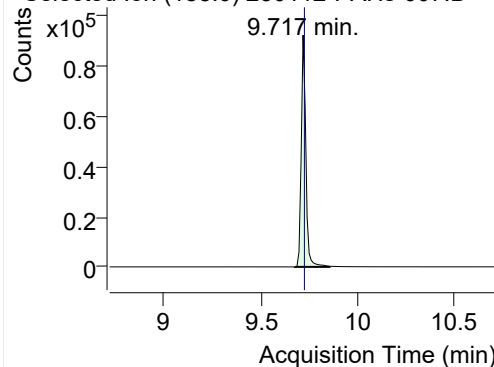


+ SIM (7.575-7.753 min, 18 scans) (**) 230112

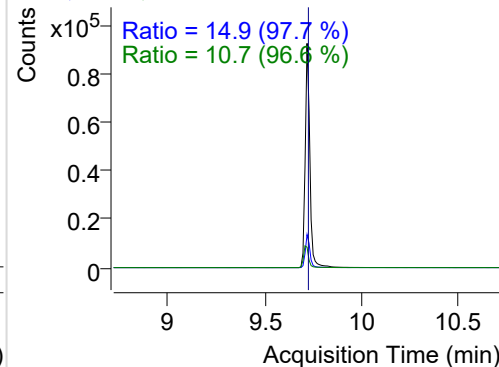


IS-D10-Phenanthrene

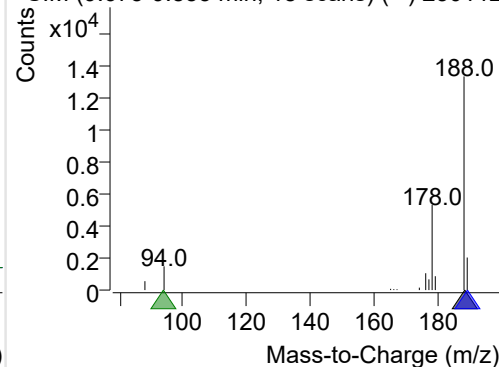
+ Selected Ion (188.0) 230112-PAHs-007.D



188.0, 189.0, 94.0

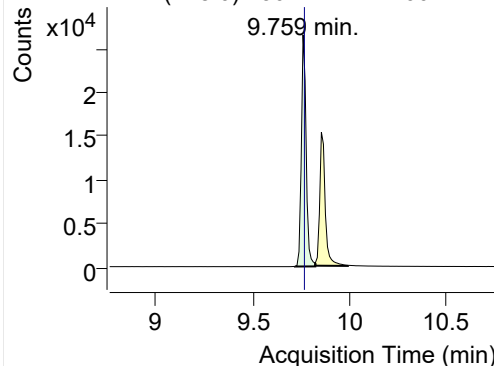


+ SIM (9.675-9.853 min, 18 scans) (**) 230112

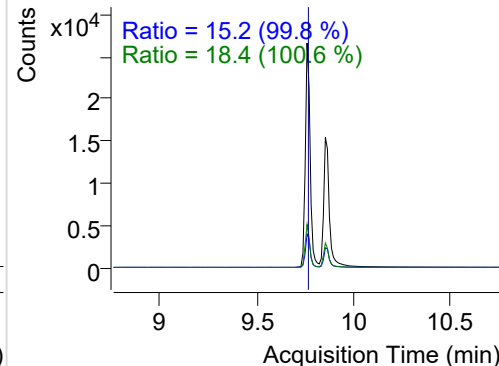


Phenanthrene

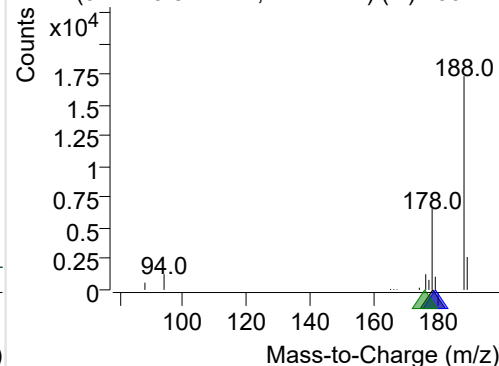
+ Selected Ion (178.0) 230112-PAHs-007.D



178.0, 179.0, 176.0

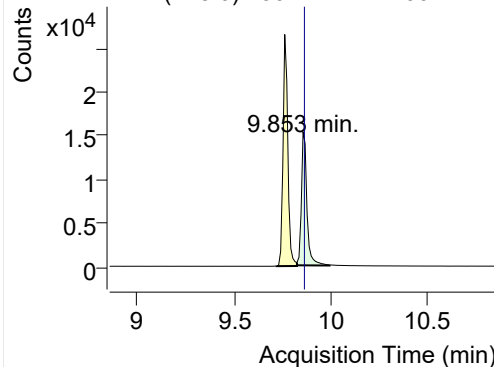


+ SIM (9.717-9.822 min, 11 scans) (**) 230112

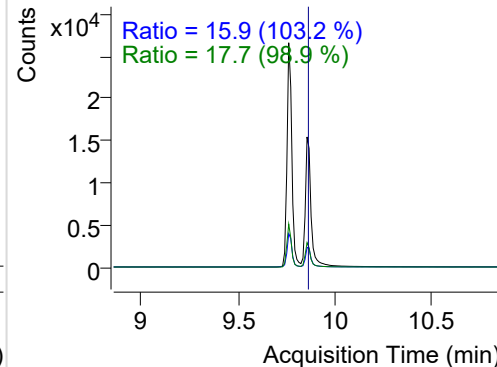


Anthracene

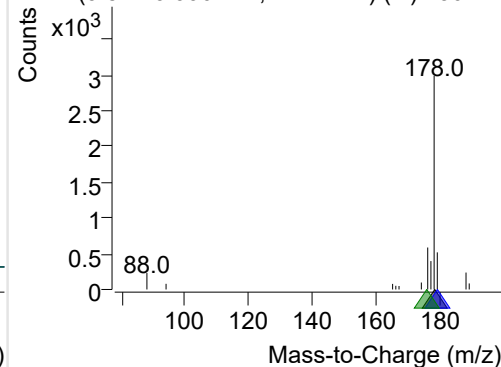
+ Selected Ion (178.0) 230112-PAHs-007.D



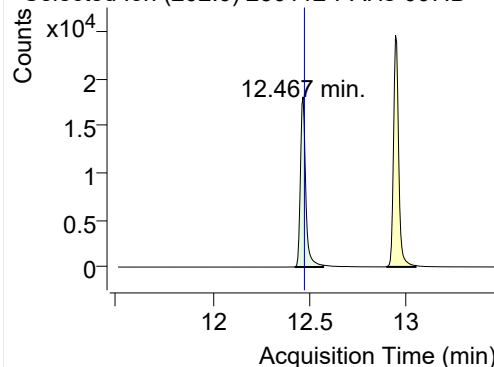
178.0, 179.0, 176.0



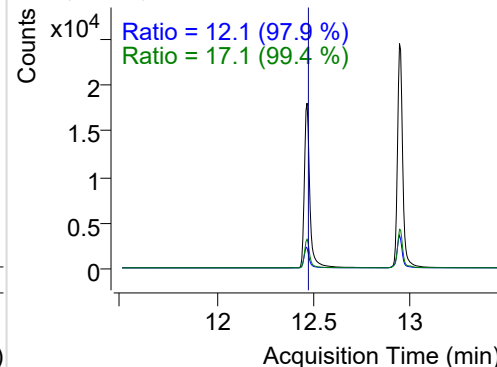
+ SIM (9.822-9.990 min, 17 scans) (**) 230112

**Fluoranthene**

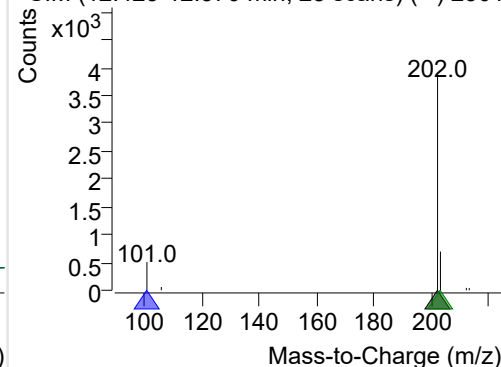
+ Selected Ion (202.0) 230112-PAHs-007.D



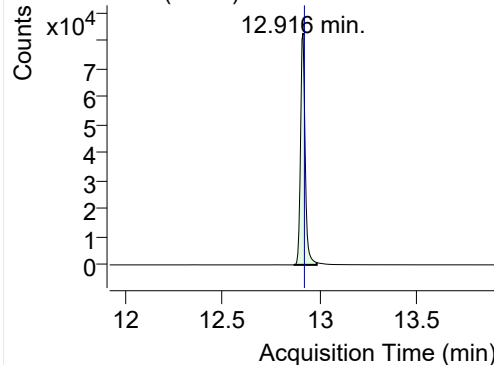
202.0, 101.0, 203.0



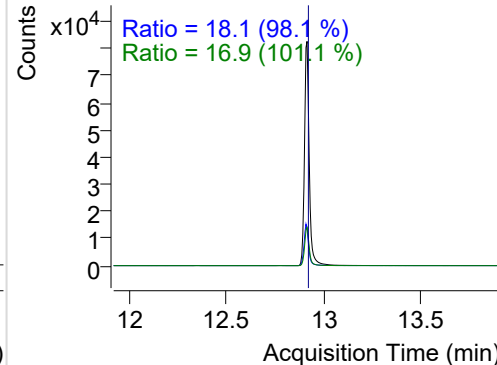
+ SIM (12.423-12.570 min, 28 scans) (**) 2301

**LSS-D10-Pyrene**

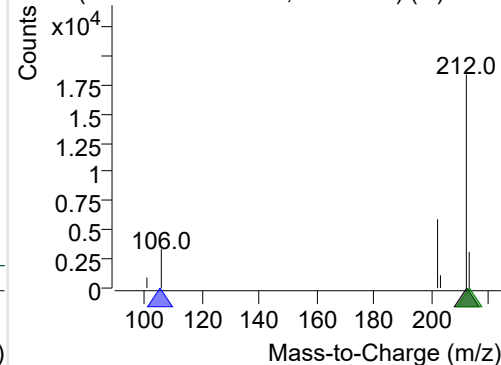
+ Selected Ion (212.0) 230112-PAHs-007.D



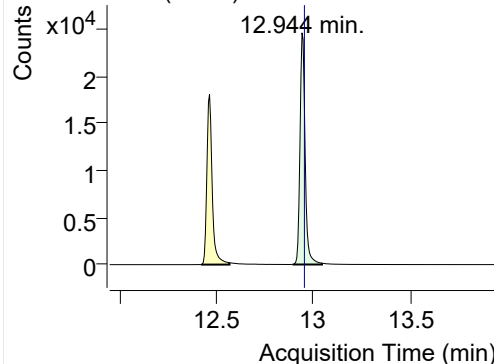
212.0, 106.0, 213.0



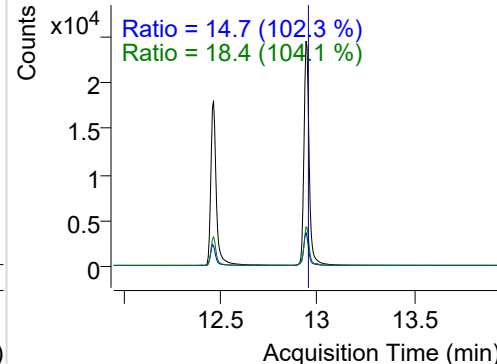
+ SIM (12.868-12.987 min, 23 scans) (**) 2301

**Pyrene**

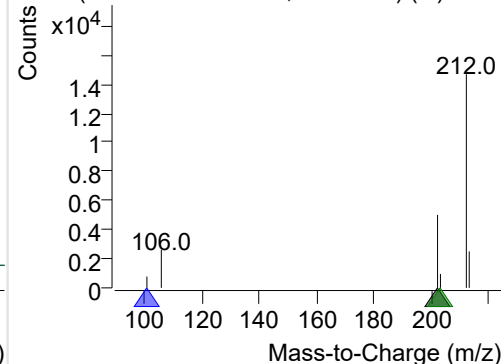
+ Selected Ion (202.0) 230112-PAHs-007.D



202.0, 101.0, 203.0

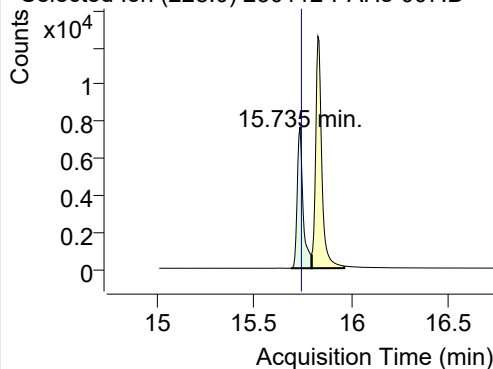


+ SIM (12.900-13.047 min, 28 scans) (**) 2301

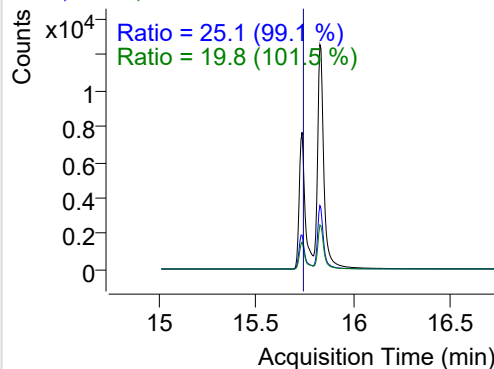


Benz(a)anthracene

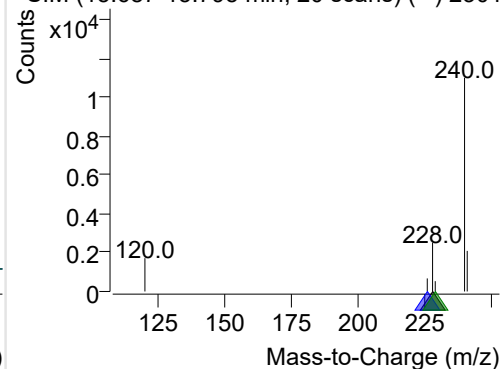
+ Selected Ion (228.0) 230112-PAHs-007.D



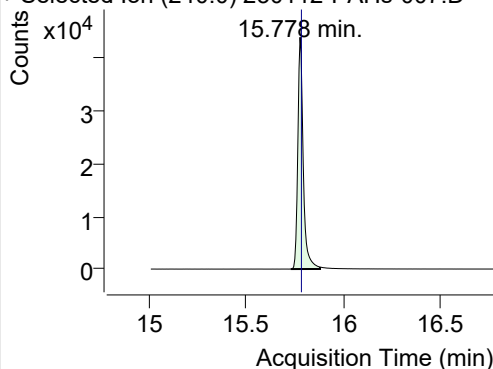
228.0, 226.0, 229.0



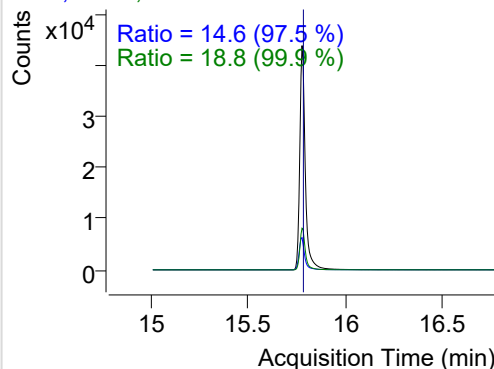
+ SIM (15.687-15.795 min, 20 scans) (**) 2301

**IS-D12-Chrysene**

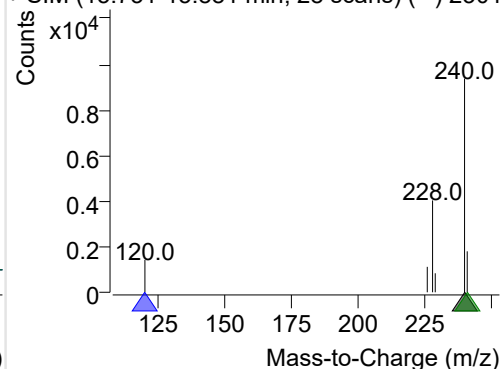
+ Selected Ion (240.0) 230112-PAHs-007.D



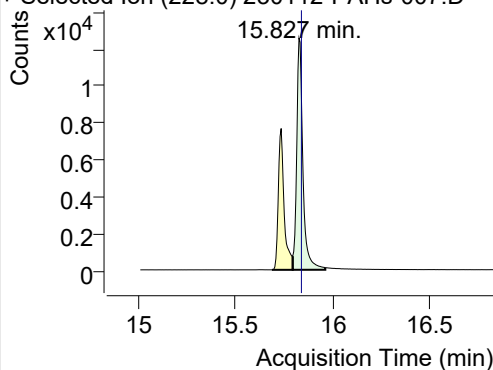
240.0, 120.0, 241.0



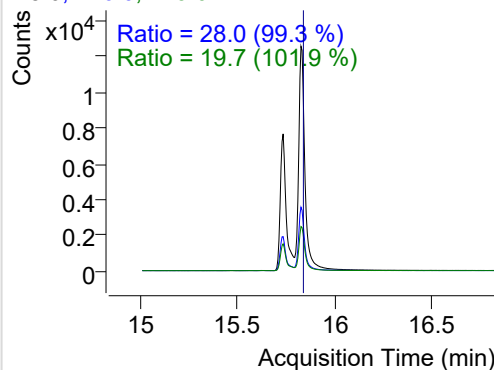
+ SIM (15.731-15.881 min, 28 scans) (**) 2301

**Chrysene**

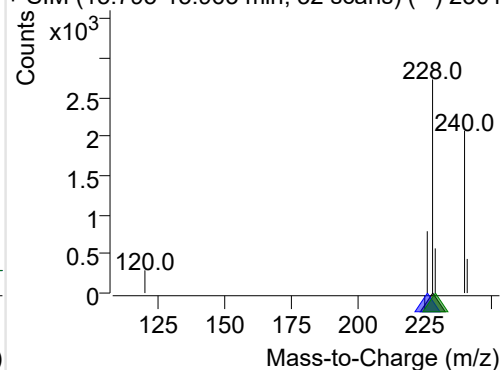
+ Selected Ion (228.0) 230112-PAHs-007.D



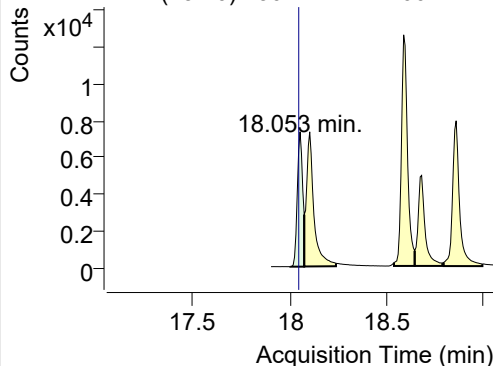
228.0, 226.0, 229.0



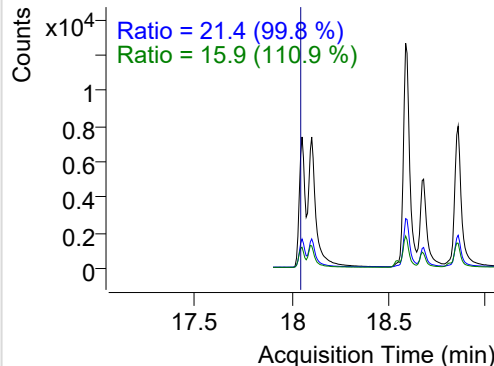
+ SIM (15.795-15.963 min, 32 scans) (**) 2301

**Benzo(b)fluoranthene**

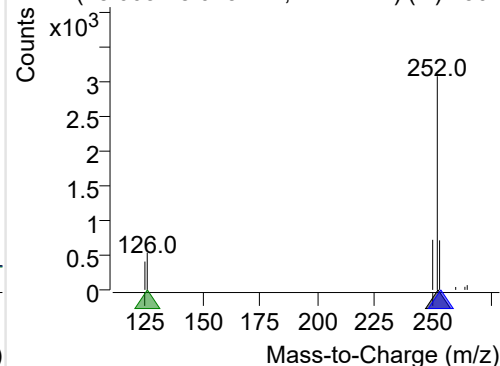
+ Selected Ion (252.0) 230112-PAHs-007.D



252.0, 253.0, 126.0

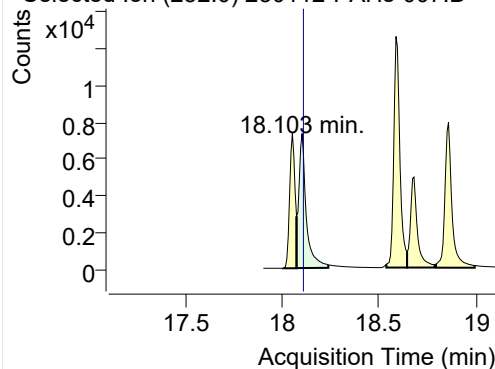


+ SIM (18.003-18.075 min, 11 scans) (**) 2301

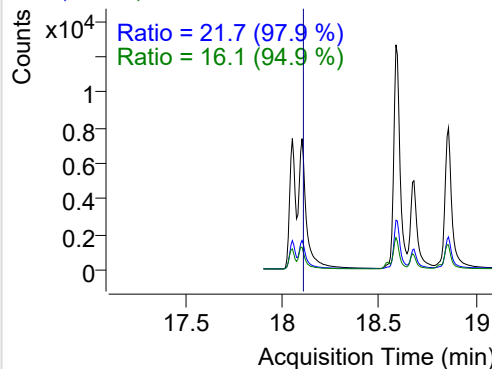


Benzo(k)fluoranthene

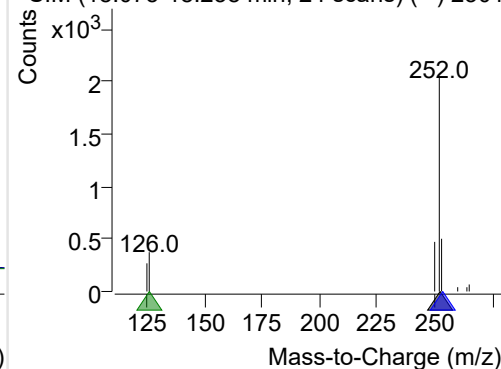
+ Selected Ion (252.0) 230112-PAHs-007.D



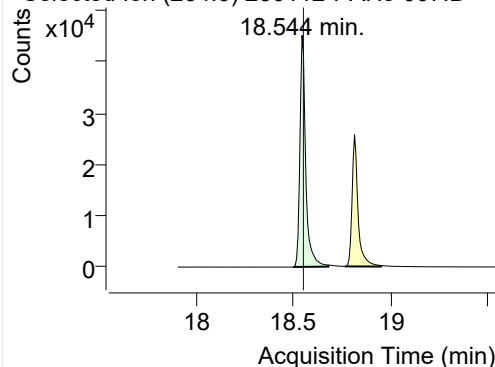
252.0, 253.0, 126.0



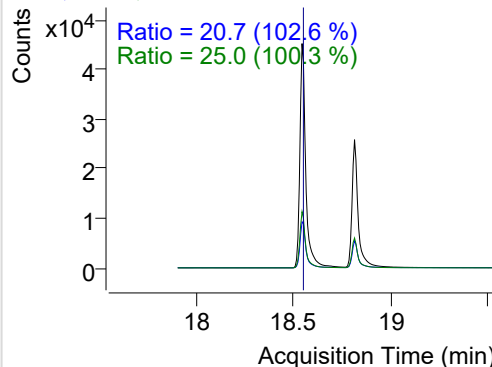
+ SIM (18.075-18.238 min, 24 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

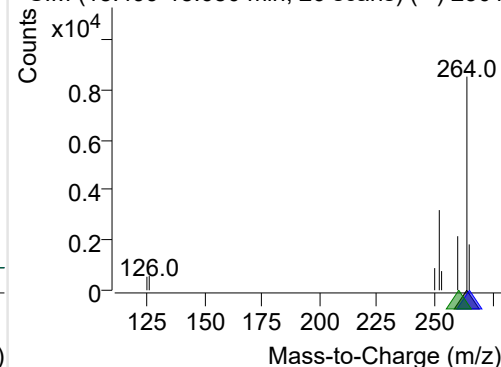
+ Selected Ion (264.0) 230112-PAHs-007.D



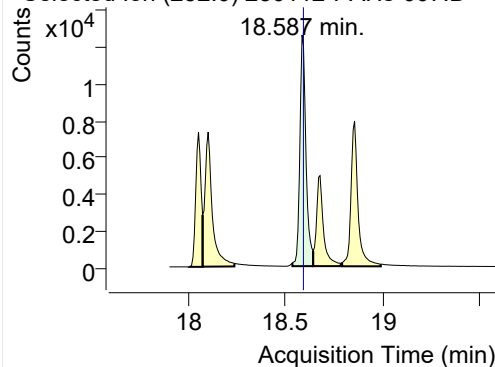
264.0, 265.0, 260.0



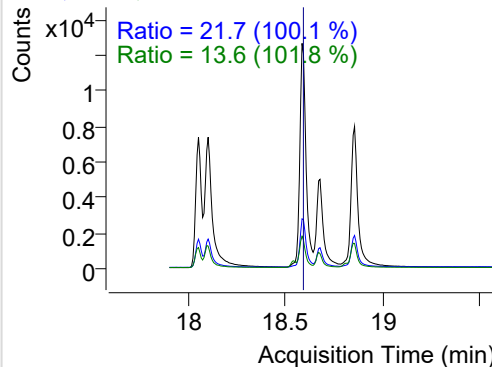
+ SIM (18.499-18.680 min, 26 scans) (**) 2301

**Benzo(e)pyrene**

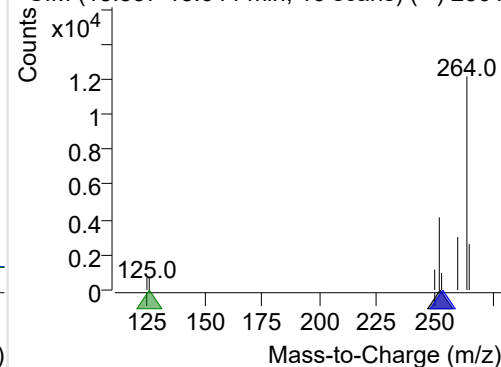
+ Selected Ion (252.0) 230112-PAHs-007.D



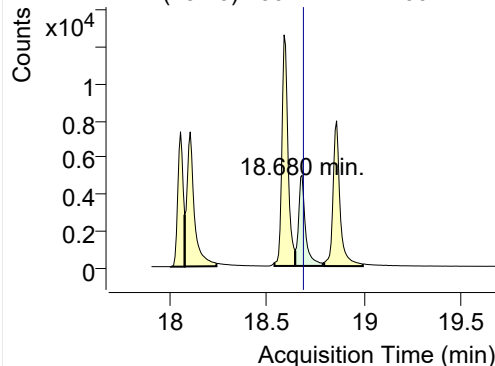
252.0, 253.0, 126.0



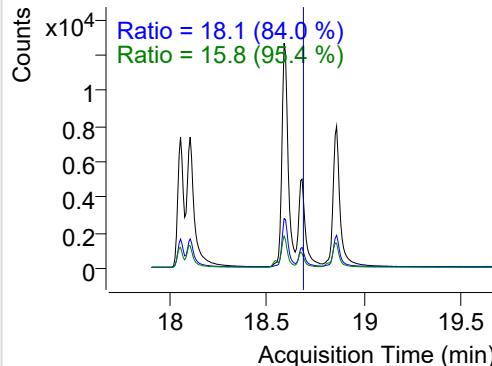
+ SIM (18.537-18.644 min, 16 scans) (**) 2301

**Benzo(a)pyrene**

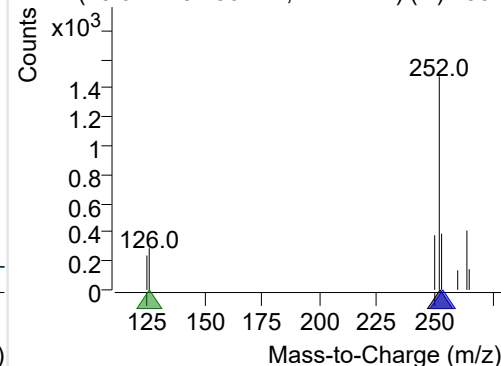
+ Selected Ion (252.0) 230112-PAHs-007.D



252.0, 253.0, 126.0

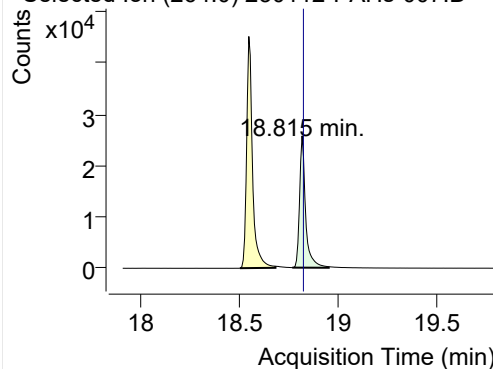


+ SIM (18.644-18.786 min, 21 scans) (**) 2301

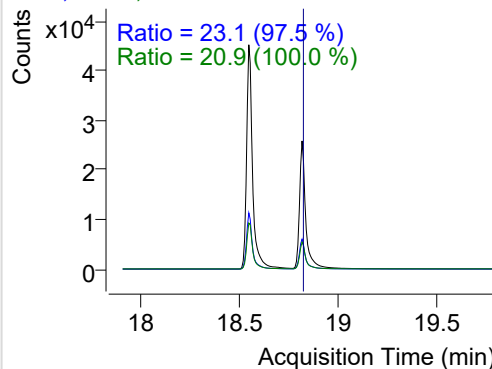


IS-D12-Perylene

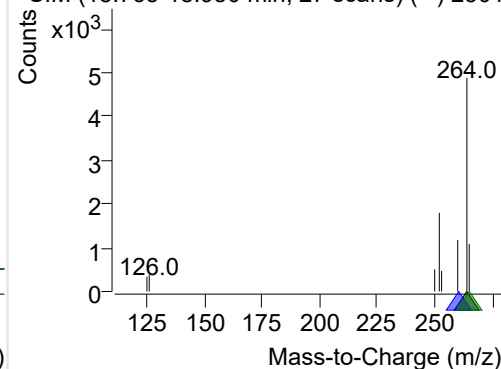
+ Selected Ion (264.0) 230112-PAHs-007.D



264.0, 260.0, 265.0

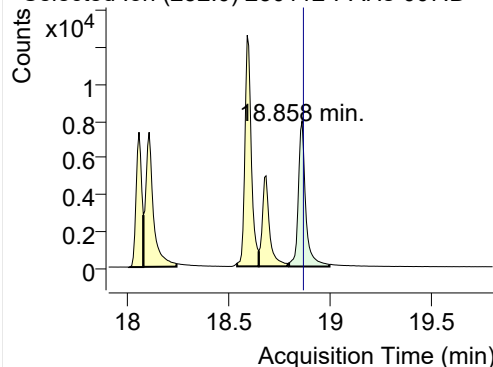


+ SIM (18.765-18.950 min, 27 scans) (**) 2301

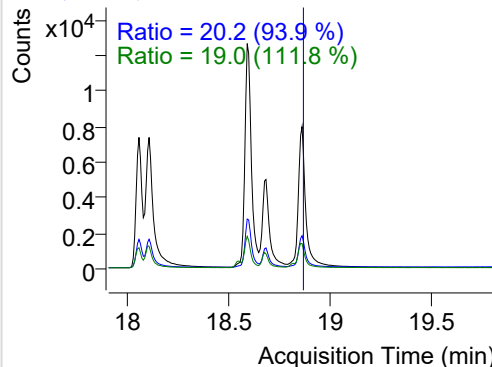


Perylene

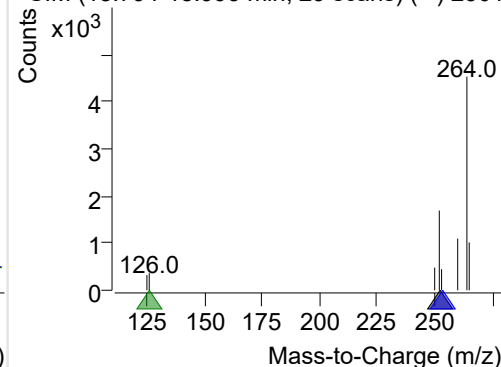
+ Selected Ion (252.0) 230112-PAHs-007.D



252.0, 253.0, 126.0

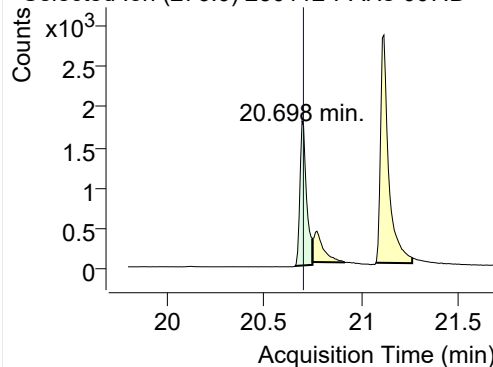


+ SIM (18.794-18.993 min, 29 scans) (**) 2301

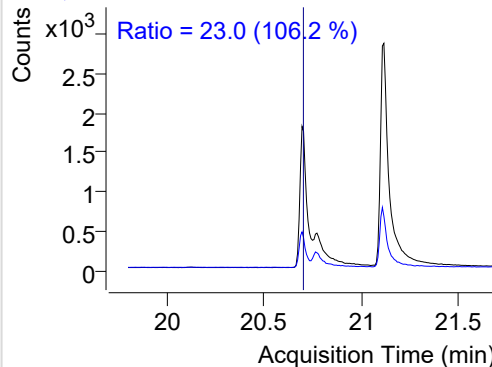


Indeno(1,2,3-c,d)pyrene

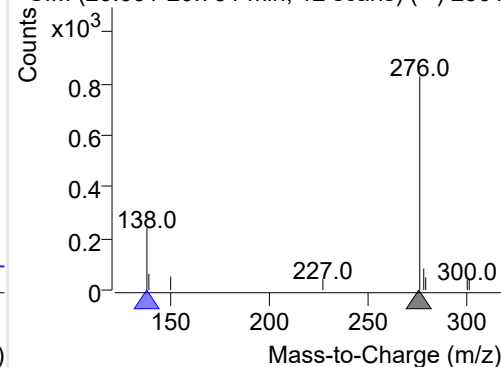
+ Selected Ion (276.0) 230112-PAHs-007.D



276.0, 138.0

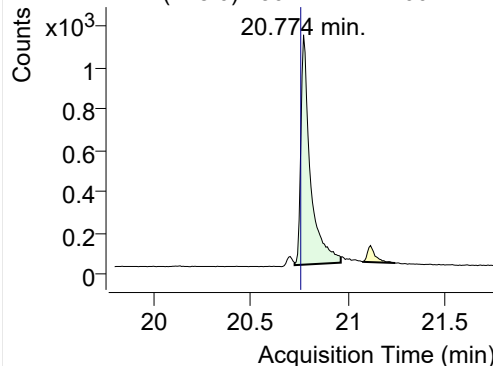


+ SIM (20.661-20.751 min, 12 scans) (**) 2301

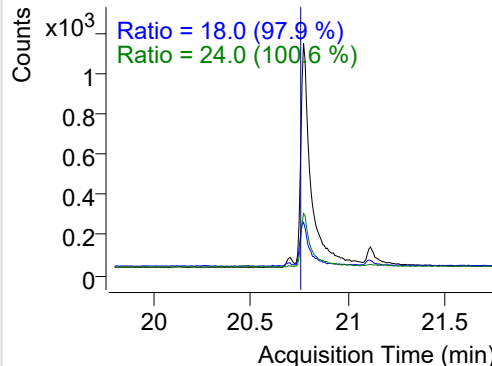


Dibenz(a,h)anthracene

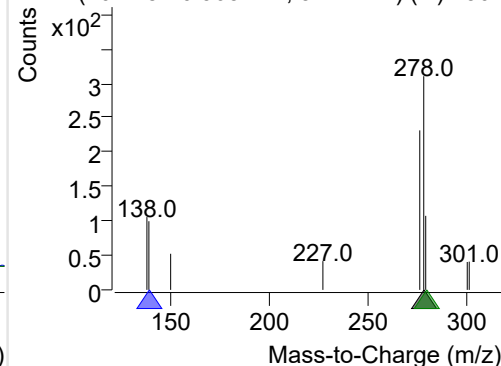
+ Selected Ion (278.0) 230112-PAHs-007.D



278.0, 139.0, 279.0

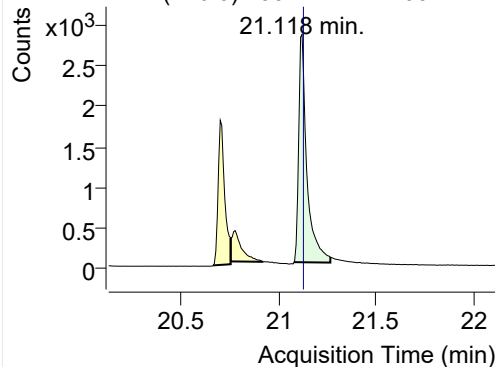


+ SIM (20.728-20.965 min, 32 scans) (**) 2301

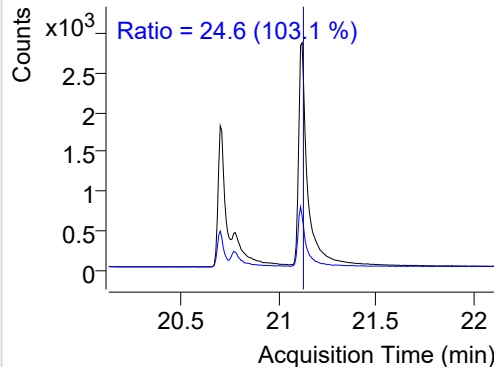


Benzo(g,h,i)perylene

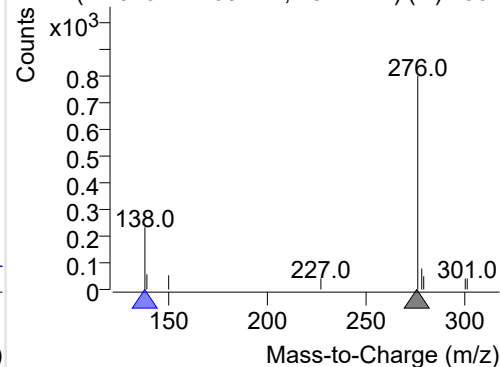
+ Selected Ion (276.0) 230112-PAHs-007.D



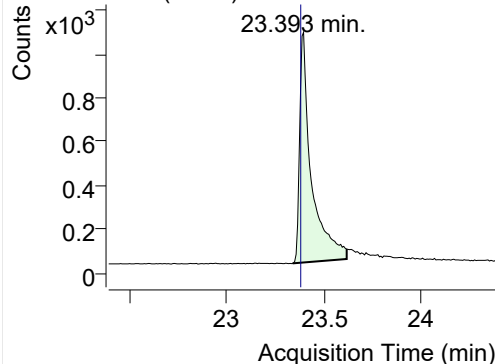
276.0, 138.0



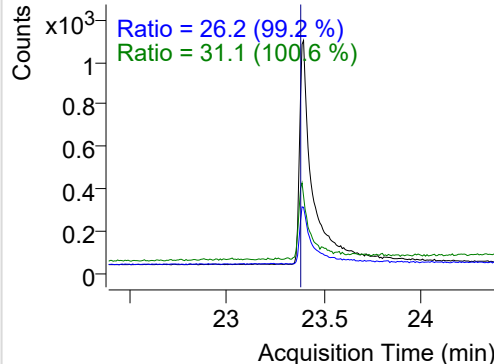
+ SIM (21.076-21.263 min, 25 scans) (**) 2301

**Coronene**

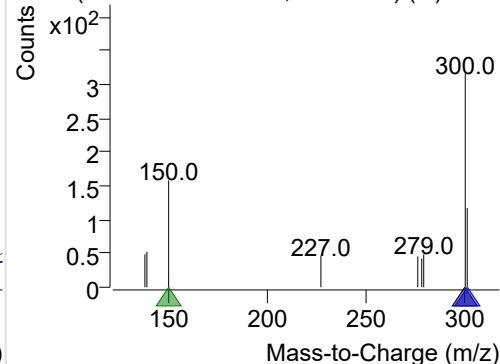
+ Selected Ion (300.0) 230112-PAHs-007.D



300.0, 301.0, 150.0



+ SIM (23.337-23.615 min, 37 scans) (**) 2301



Quantitative Analysis Sample Based Report

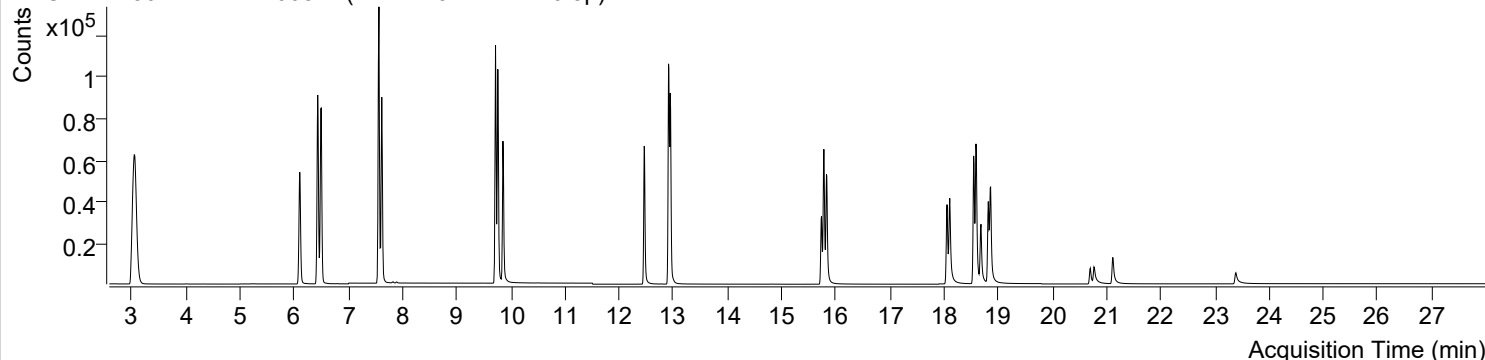


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 3:22:08	Data File	230112-PAHs-008.D
Type	Sample	Name	PAHs-19mix-STD-0.5p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

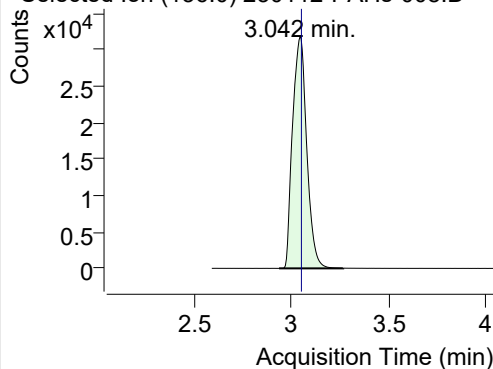
+ TIC SIM 230112-PAHs-008.D (PAHs-19mix-STD-0.5p)



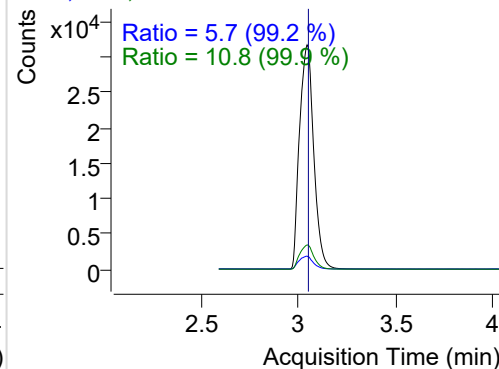
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	160809	31726.36	ND ng/ml	10.8
Naphthalene	3.063	128.0	121758	24393.35	ND ng/ml	12.5
Acenaphthylene	6.102	152.0	86199	40486.23	ND ng/ml	19.1
IS-D10-Acenaphthene	6.433	164.0	83564	44034.35	ND ng/ml	93.8
Acenaphthene	6.499	154.0	61962	30870.73	ND ng/ml	104.9
LSS-D10-Fluorene	7.564	176.0	103562	62168.87	ND ng/ml	90.6
Fluorene	7.617	166.0	74194	43122.92	ND ng/ml	90.6
IS-D10-Phenanthrene	9.717	188.0	145033	92145.71	ND ng/ml	14.9
Phenanthrene	9.759	178.0	106749	65963.37	ND ng/ml	18.4
Anthracene	9.853	178.0	79909	45269.37	ND ng/ml	17.6
Fluoranthene	12.461	202.0	89472	51296.81	ND ng/ml	17.2
LSS-D10-Pyrene	12.911	212.0	131634	77777.78	ND ng/ml	18.1
Pyrene	12.944	202.0	110129	64349.32	ND ng/ml	17.8
Benz(a)anthracene	15.735	228.0	46446	22722.37	ND ng/ml	24.9
IS-D12-Chrysene	15.779	240.0	87511	46385.67	ND ng/ml	19.0
Chrysene	15.827	228.0	70760	33696.07	ND ng/ml	28.2
Benzo(b)fluoranthene	18.053	252.0	40673	22682.15	ND ng/ml	21.5
Benzo(k)fluoranthene	18.103	252.0	61690	24317.77	ND ng/ml	21.8
SS-D12-Benzo(e)pyrene	18.544	264.0	87154	41675.49	ND ng/ml	24.8
Benzo(e)pyrene	18.587	252.0	70621	33753.15	ND ng/ml	21.7
Benzo(a)pyrene	18.680	252.0	38466	16300.34	ND ng/ml	18.8
IS-D12-Perylene	18.815	264.0	48785	25207.22	ND ng/ml	27.9
Perylene	18.858	252.0	54024	23211.87	ND ng/ml	20.6
Indeno(1,2,3-c,d)pytene	20.698	276.0	15600	6237.27	ND ng/ml	20.3
Dibenz(a,h)anthracene	20.767	278.0	15735	4154.44	ND ng/ml	19.6
Benzo(g,h,i)perylene	21.118	276.0	30884	9919.86	ND ng/ml	21.9
Coronene	23.386	300.0	14861	3461.74	ND ng/ml	27.8

IS-D8-Naphthalene

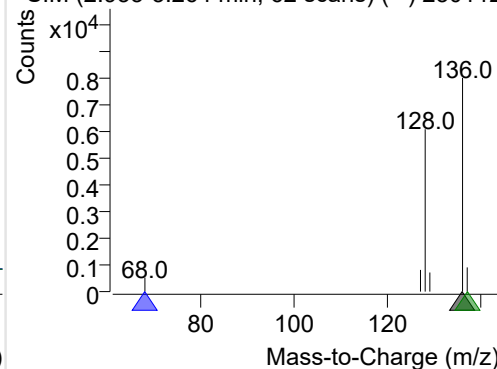
+ Selected Ion (136.0) 230112-PAHs-008.D



136.0, 68.0, 137.0

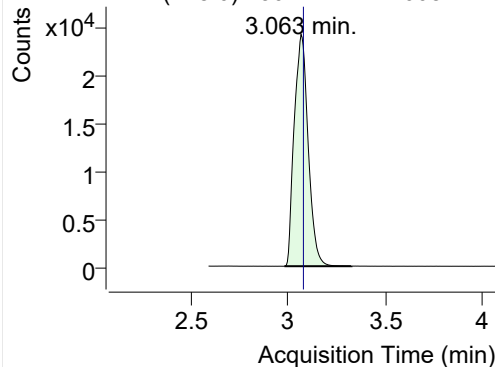


+ SIM (2.933-3.264 min, 62 scans) (**) 230112

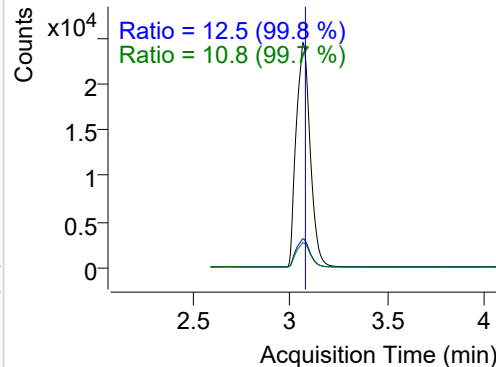


Naphthalene

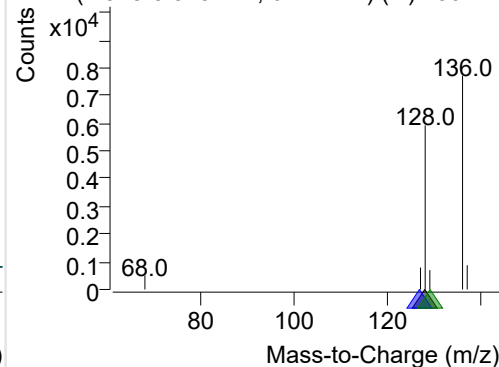
+ Selected Ion (128.0) 230112-PAHs-008.D



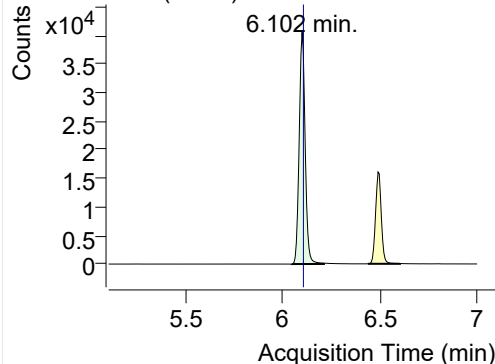
128.0, 127.0, 129.0



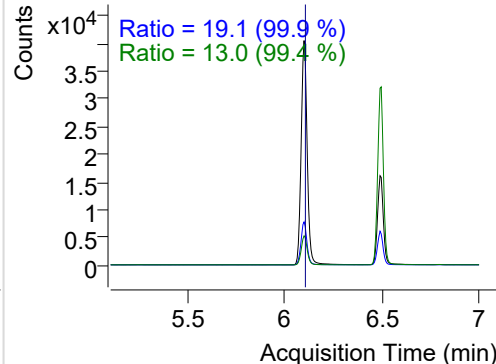
+ SIM (2.978-3.323 min, 64 scans) (**) 230112

**Acenaphthylene**

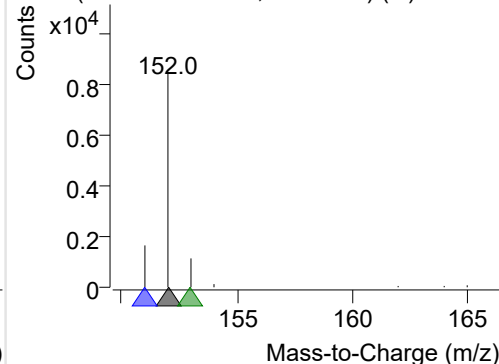
+ Selected Ion (152.0) 230112-PAHs-008.D



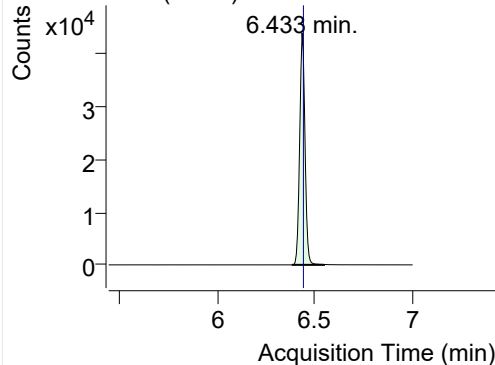
152.0, 151.0, 153.0



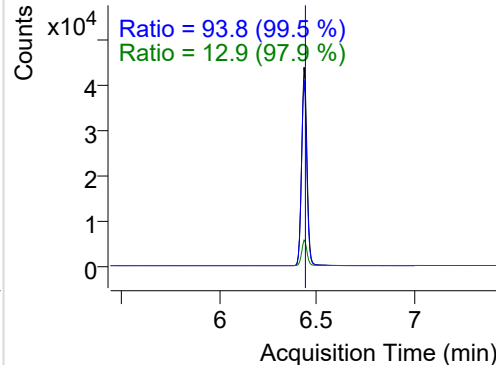
+ SIM (6.049-6.214 min, 29 scans) (**) 230112

**IS-D10-Acenaphthene**

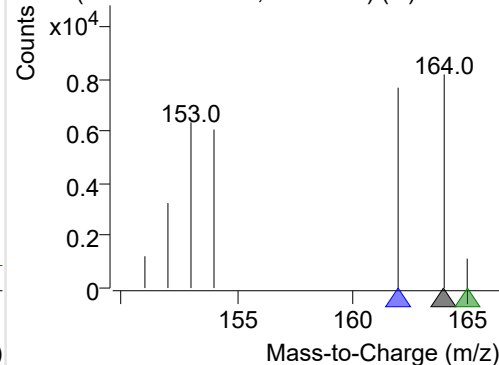
+ Selected Ion (164.0) 230112-PAHs-008.D



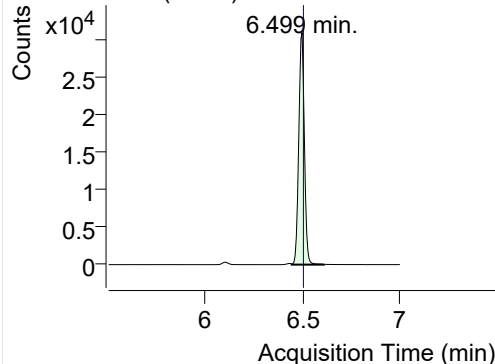
164.0, 162.0, 165.0



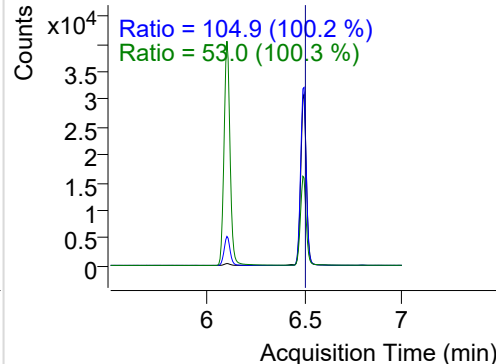
+ SIM (6.380-6.546 min, 29 scans) (**) 230112

**Acenaphthene**

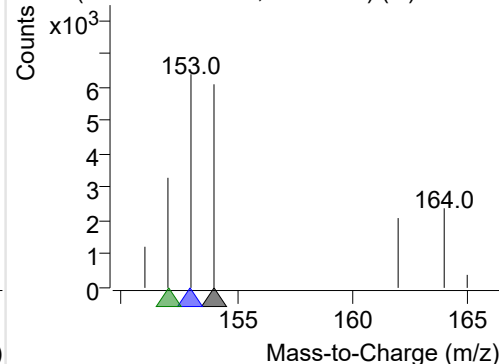
+ Selected Ion (154.0) 230112-PAHs-008.D



154.0, 153.0, 152.0

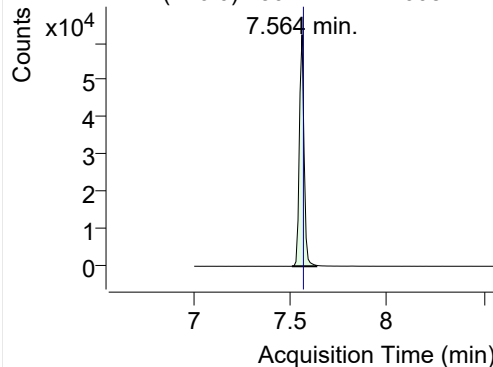


+ SIM (6.445-6.611 min, 29 scans) (**) 230112

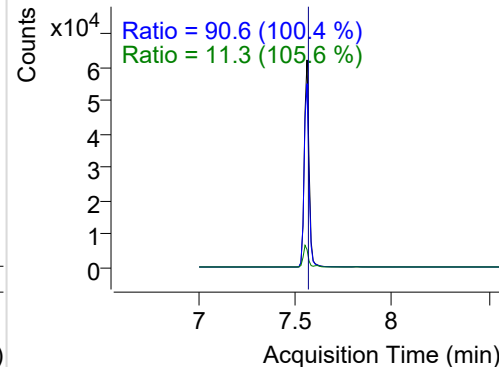


LSS-D10-Fluorene

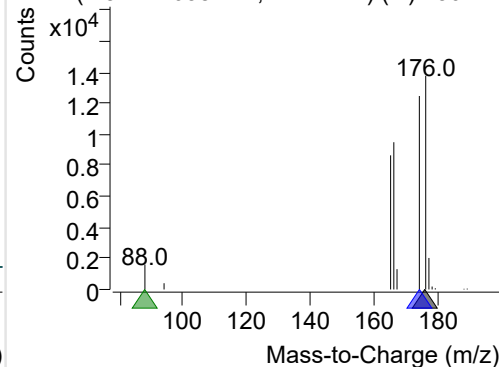
+ Selected Ion (176.0) 230112-PAHs-008.D



176.0, 174.0, 88.0

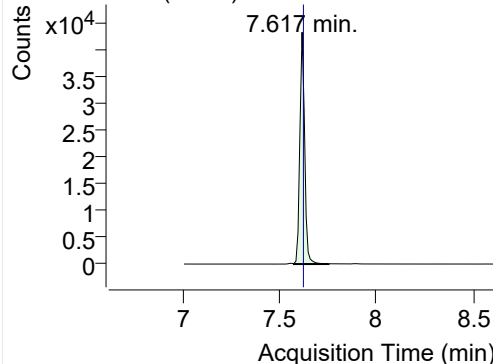


+ SIM (7.512-7.638 min, 12 scans) (**) 230112

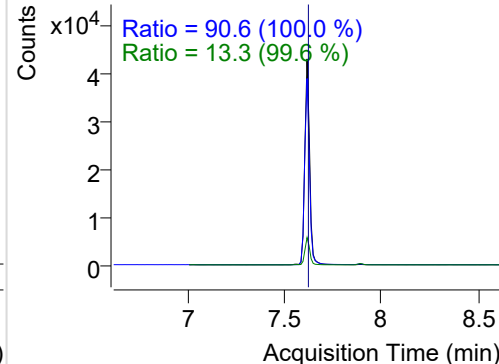


Fluorene

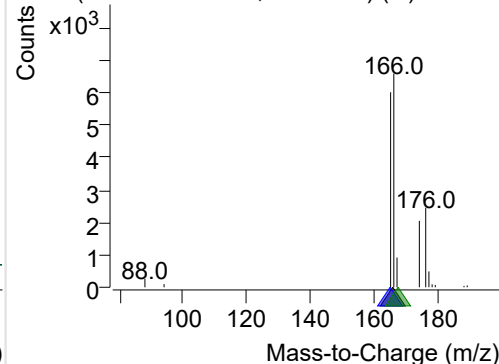
+ Selected Ion (166.0) 230112-PAHs-008.D



166.0, 165.0, 167.0

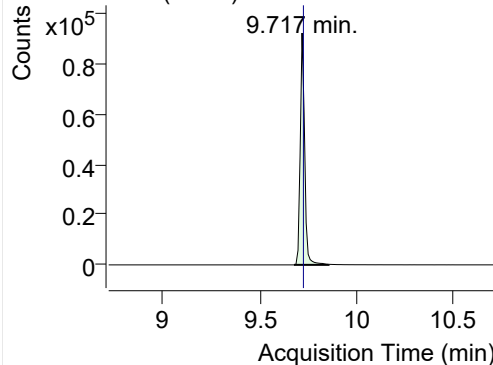


+ SIM (7.575-7.753 min, 18 scans) (**) 230112

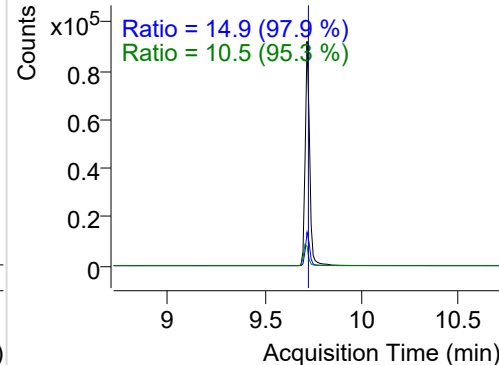


IS-D10-Phenanthrene

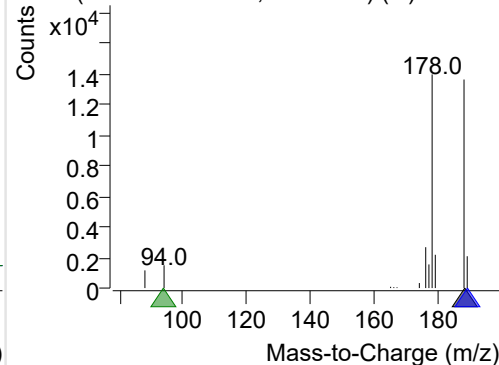
+ Selected Ion (188.0) 230112-PAHs-008.D



188.0, 189.0, 94.0

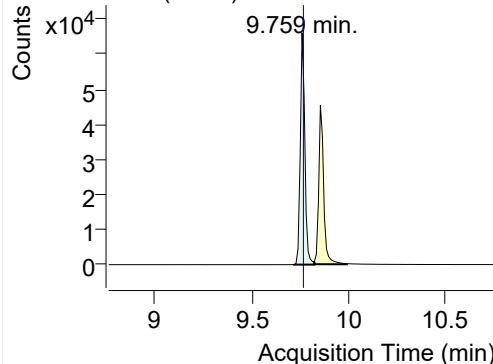


+ SIM (9.675-9.853 min, 17 scans) (**) 230112

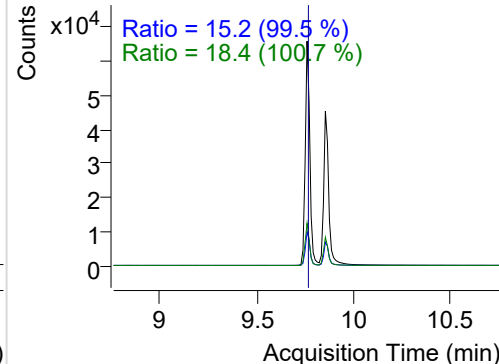


Phenanthrene

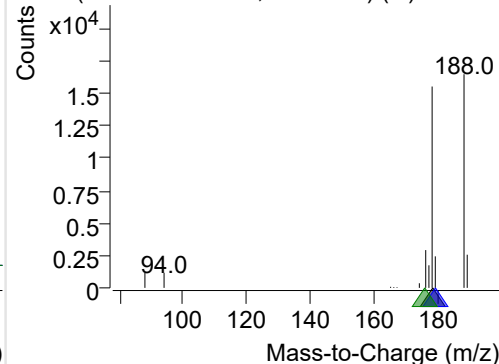
+ Selected Ion (178.0) 230112-PAHs-008.D



178.0, 179.0, 176.0

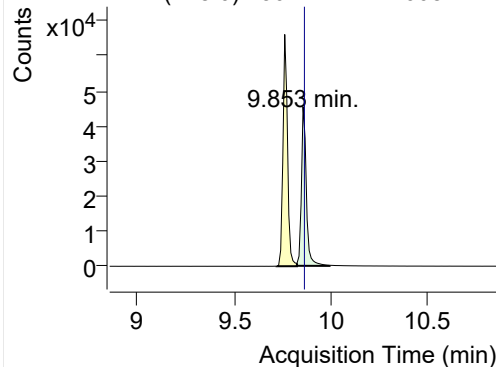


+ SIM (9.717-9.822 min, 11 scans) (**) 230112

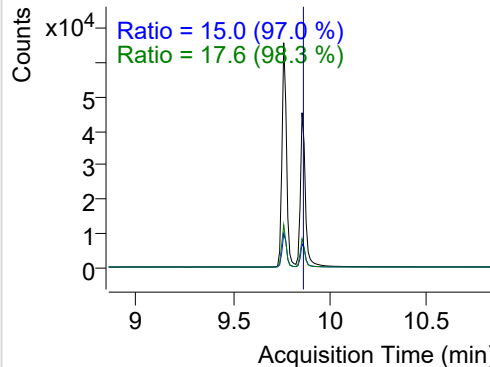


Anthracene

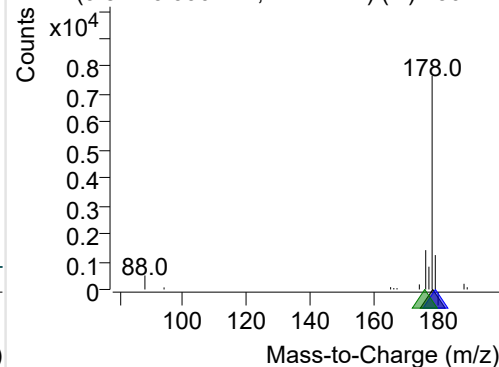
+ Selected Ion (178.0) 230112-PAHs-008.D



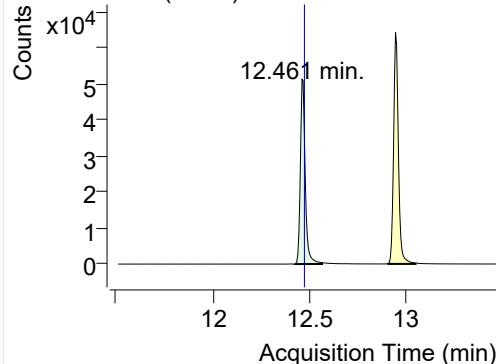
178.0, 179.0, 176.0



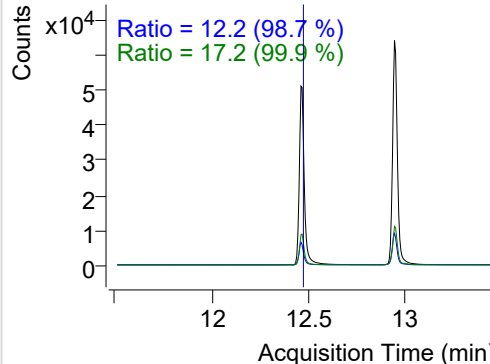
+ SIM (9.822-9.990 min, 17 scans) (**) 230112

**Fluoranthene**

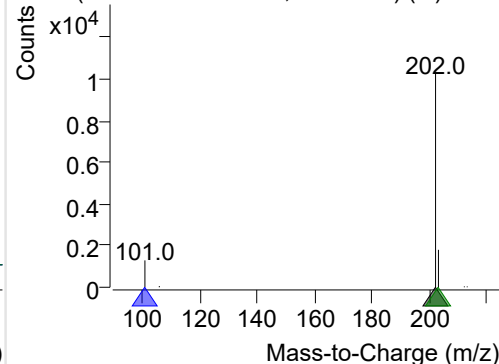
+ Selected Ion (202.0) 230112-PAHs-008.D



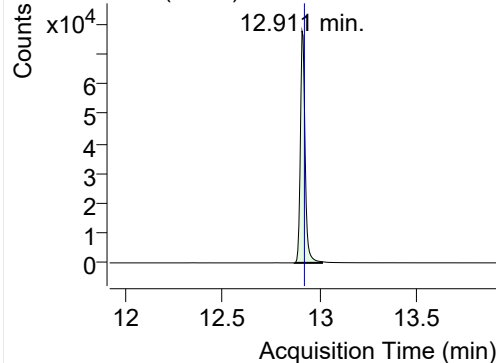
202.0, 101.0, 203.0



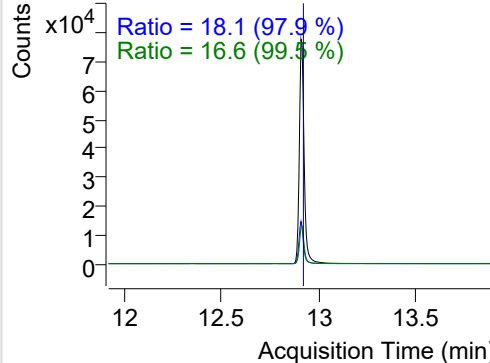
+ SIM (12.423-12.564 min, 27 scans) (**) 2301

**LSS-D10-Pyrene**

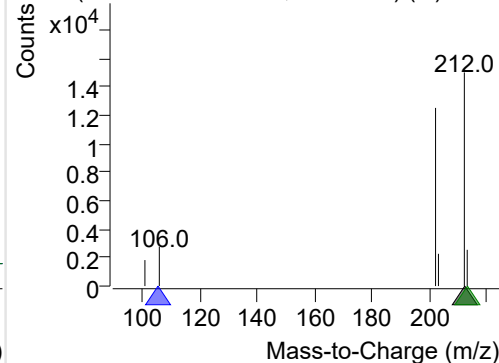
+ Selected Ion (212.0) 230112-PAHs-008.D



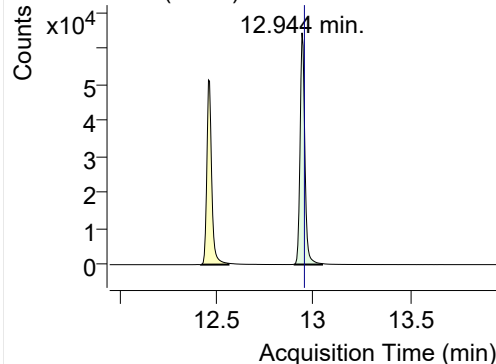
212.0, 106.0, 213.0



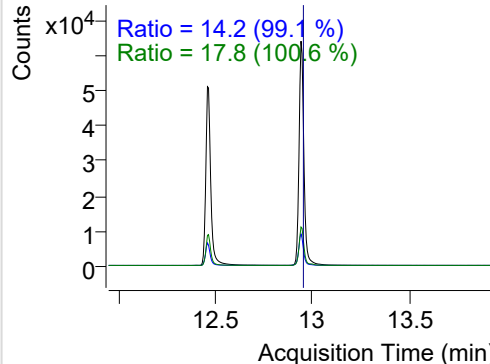
+ SIM (12.873-13.014 min, 27 scans) (**) 2301

**Pyrene**

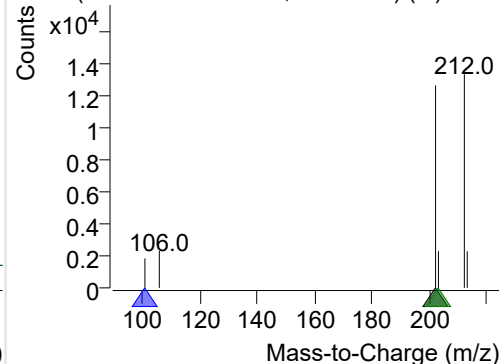
+ Selected Ion (202.0) 230112-PAHs-008.D



202.0, 101.0, 203.0

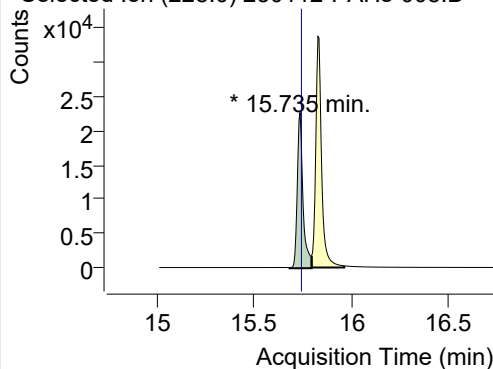


+ SIM (12.906-13.047 min, 27 scans) (**) 2301

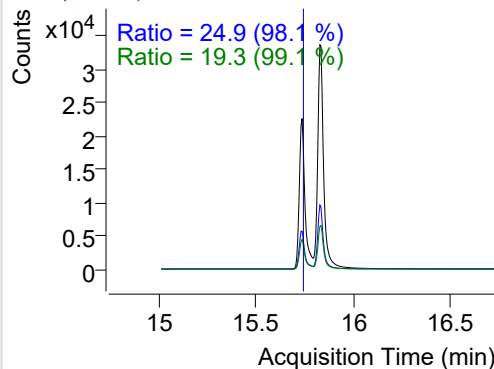


Benz(a)anthracene

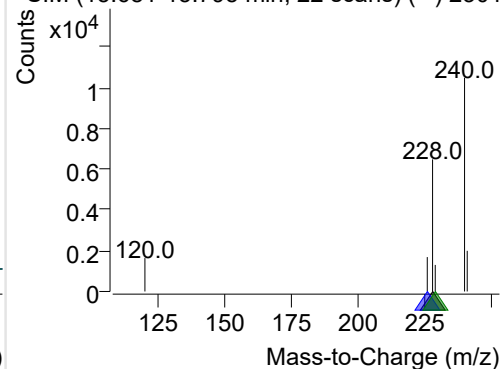
+ Selected Ion (228.0) 230112-PAHs-008.D



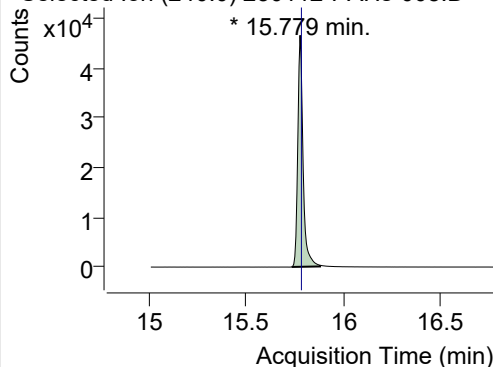
228.0, 226.0, 229.0



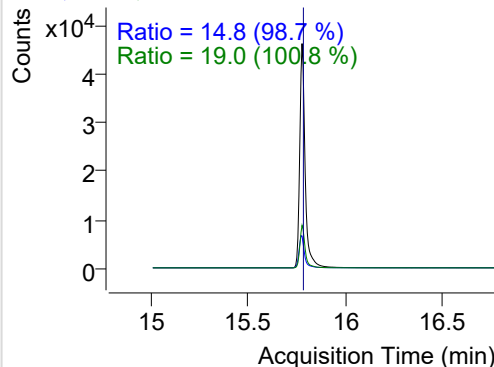
+ SIM (15.681-15.795 min, 22 scans) (**) 2301

**IS-D12-Chrysene**

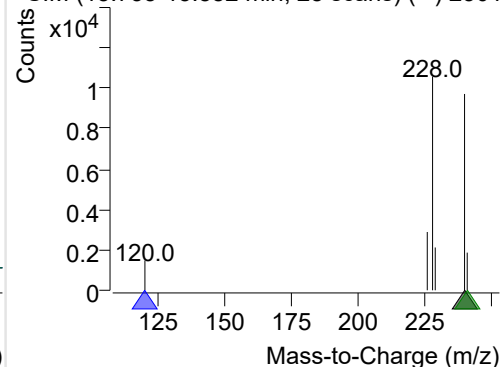
+ Selected Ion (240.0) 230112-PAHs-008.D



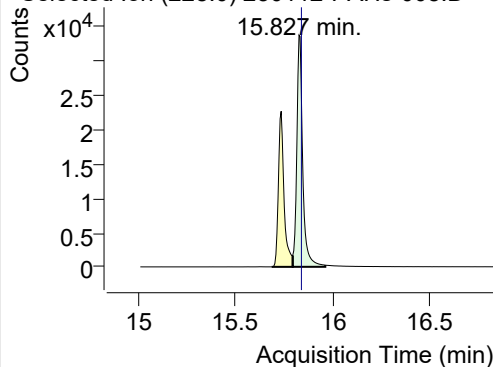
240.0, 120.0, 241.0



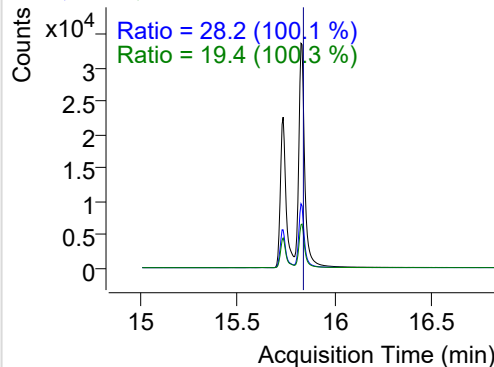
+ SIM (15.735-15.882 min, 28 scans) (**) 2301

**Chrysene**

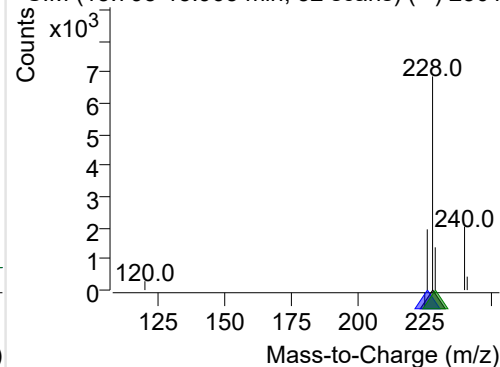
+ Selected Ion (228.0) 230112-PAHs-008.D



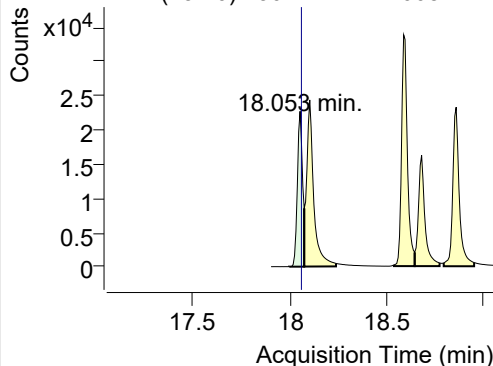
228.0, 226.0, 229.0



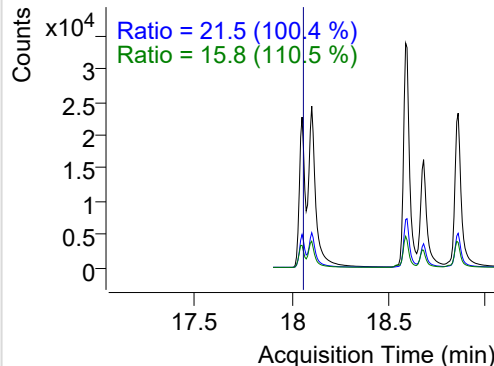
+ SIM (15.795-15.963 min, 32 scans) (**) 2301

**Benzo(b)fluoranthene**

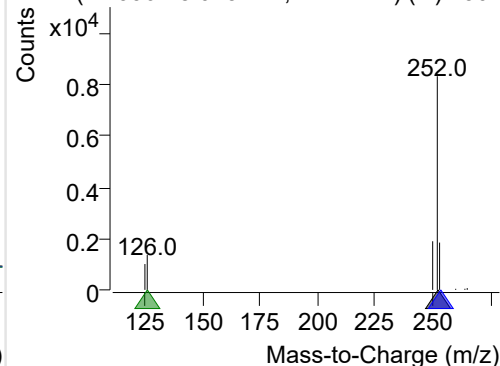
+ Selected Ion (252.0) 230112-PAHs-008.D



252.0, 253.0, 126.0

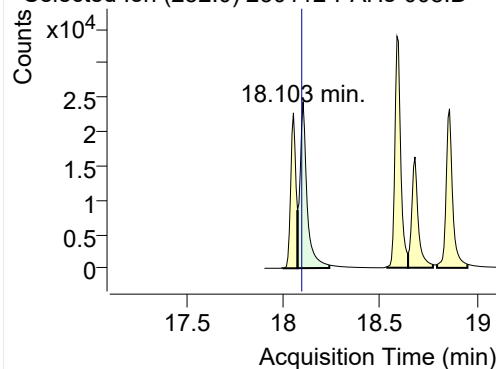


+ SIM (17.996-18.075 min, 12 scans) (**) 2301

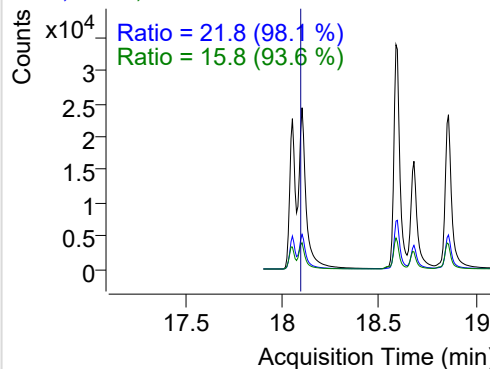


Benzo(k)fluoranthene

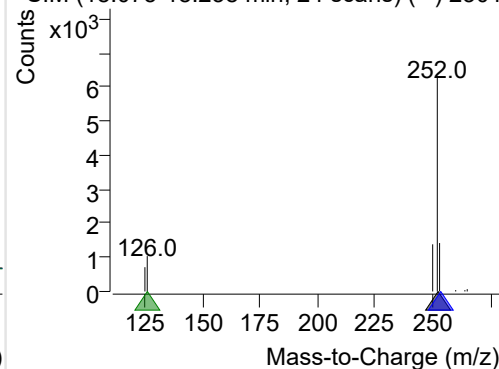
+ Selected Ion (252.0) 230112-PAHs-008.D



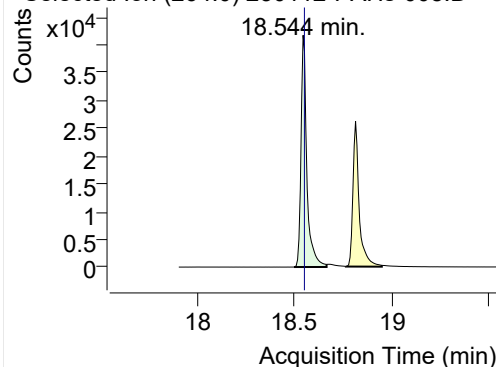
252.0, 253.0, 126.0



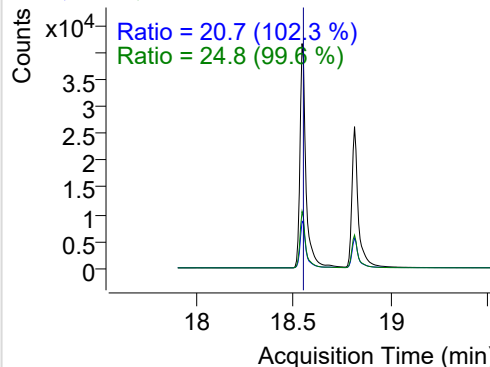
+ SIM (18.075-18.238 min, 24 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

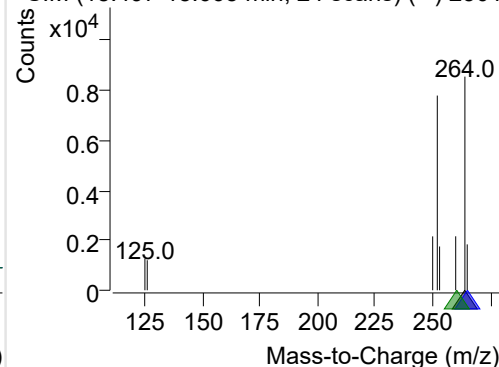
+ Selected Ion (264.0) 230112-PAHs-008.D



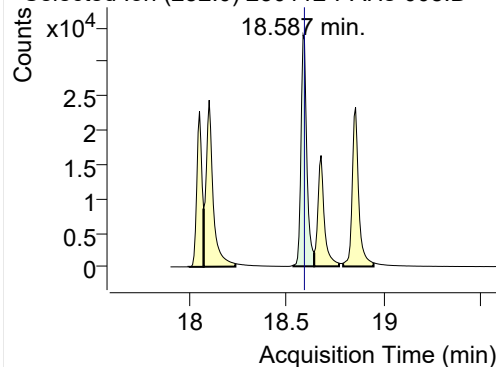
264.0, 265.0, 260.0



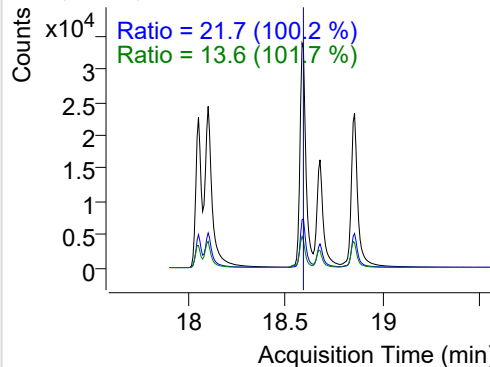
+ SIM (18.497-18.665 min, 24 scans) (**) 2301

**Benzo(e)pyrene**

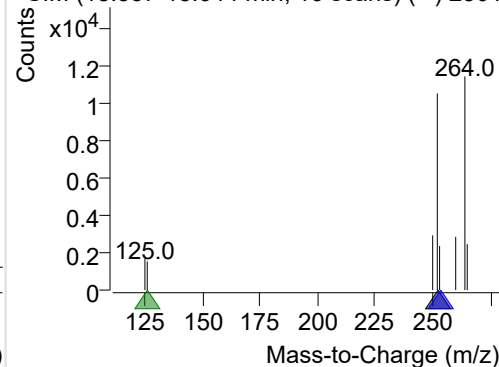
+ Selected Ion (252.0) 230112-PAHs-008.D



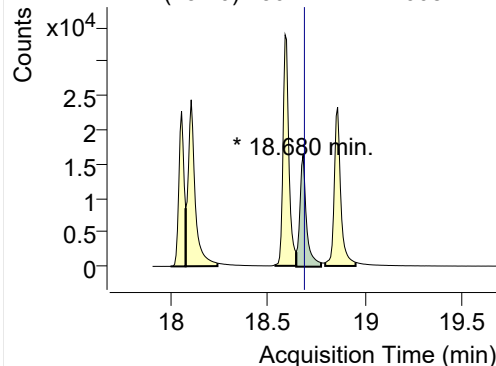
252.0, 253.0, 126.0



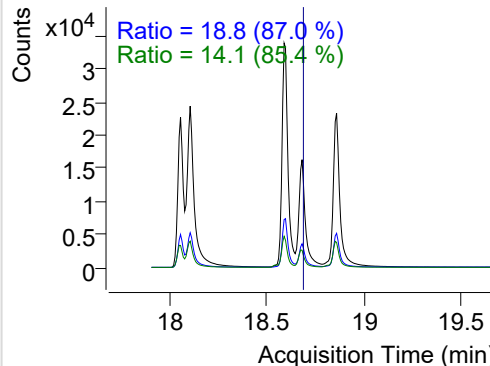
+ SIM (18.537-18.644 min, 16 scans) (**) 2301

**Benzo(a)pyrene**

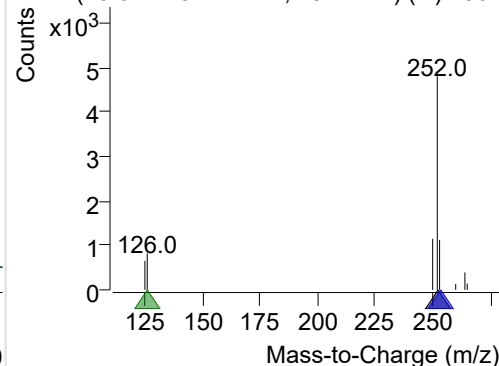
+ Selected Ion (252.0) 230112-PAHs-008.D



252.0, 253.0, 126.0

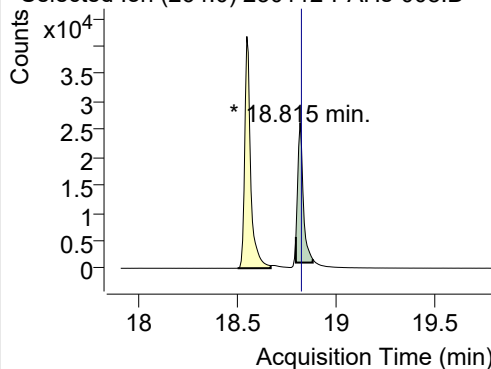


+ SIM (18.644-18.772 min, 19 scans) (**) 2301

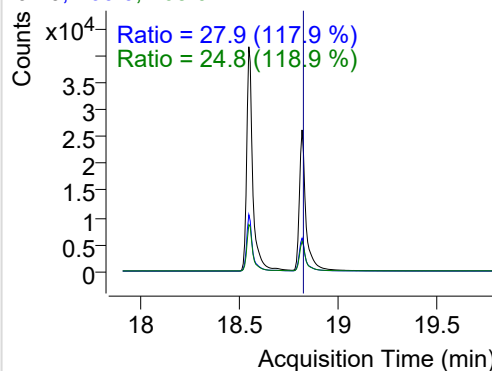


IS-D12-Perylene

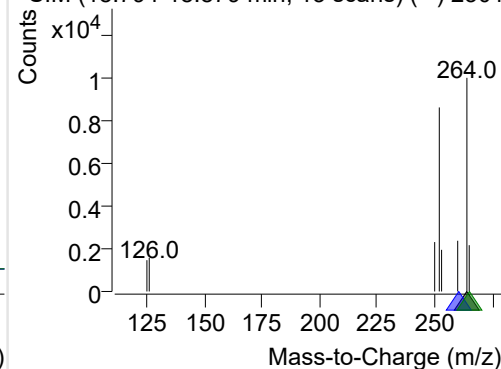
+ Selected Ion (264.0) 230112-PAHs-008.D



264.0, 260.0, 265.0

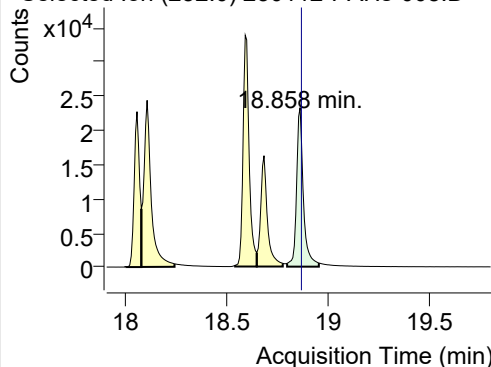


+ SIM (18.794-18.879 min, 13 scans) (**) 2301

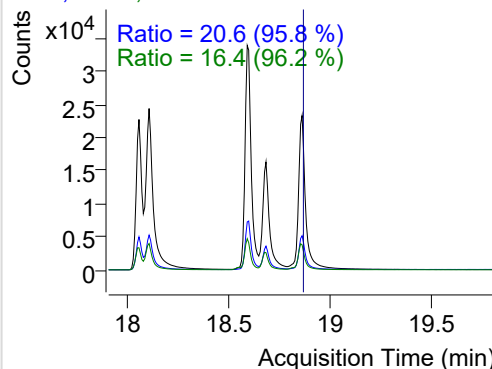


Perylene

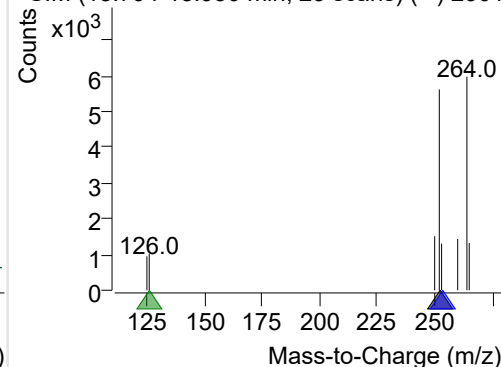
+ Selected Ion (252.0) 230112-PAHs-008.D



252.0, 253.0, 126.0

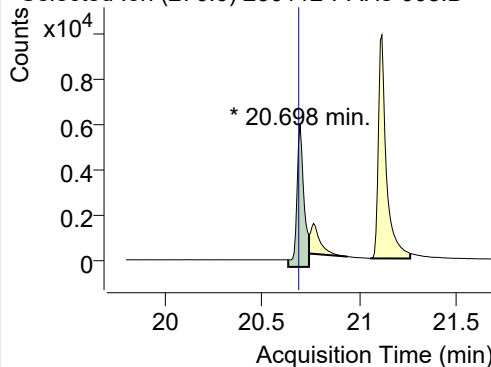


+ SIM (18.794-18.950 min, 23 scans) (**) 2301

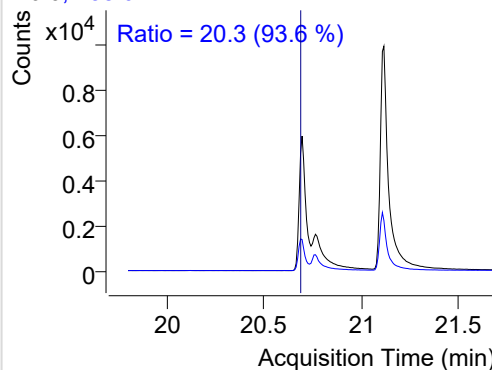


Indeno(1,2,3-c,d)pyrene

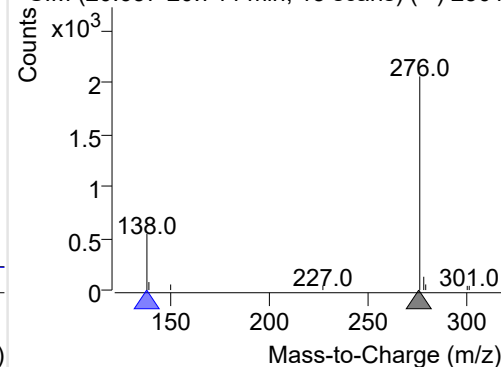
+ Selected Ion (276.0) 230112-PAHs-008.D



276.0, 138.0

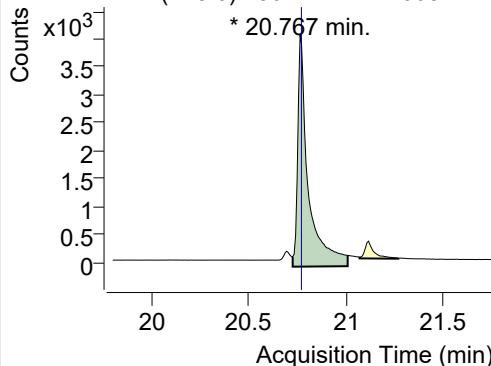


+ SIM (20.637-20.744 min, 15 scans) (**) 2301

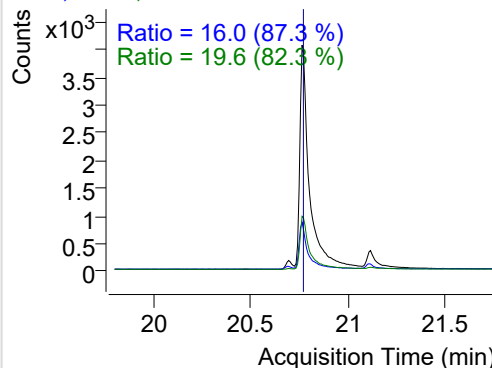


Dibenz(a,h)anthracene

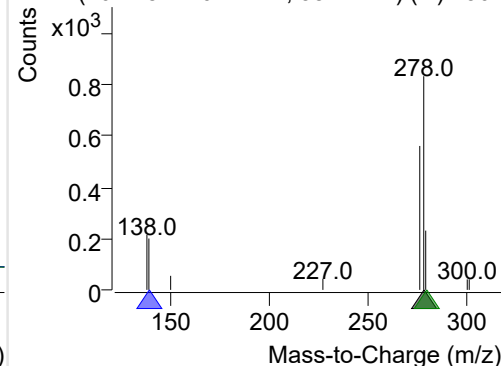
+ Selected Ion (278.0) 230112-PAHs-008.D



278.0, 139.0, 279.0

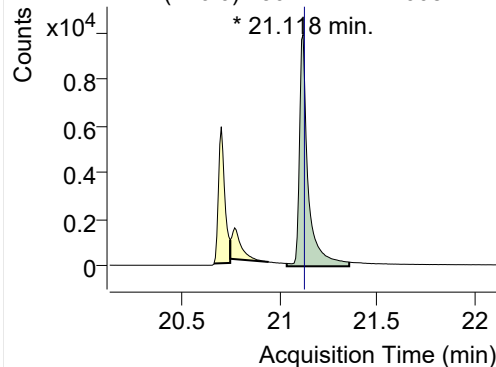


+ SIM (20.728-21.011 min, 38 scans) (**) 2301

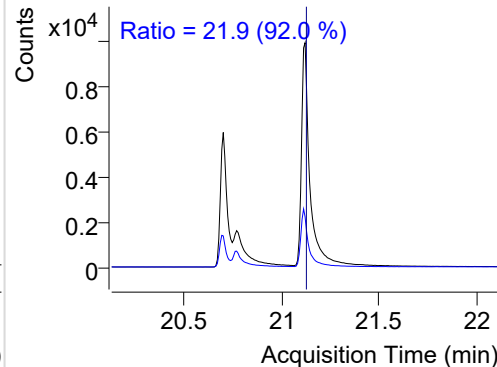


Benzo(g,h,i)perylene

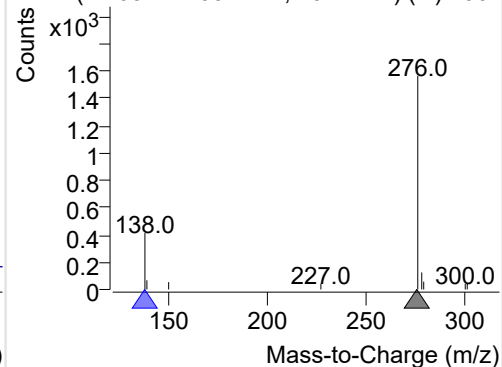
+ Selected Ion (276.0) 230112-PAHs-008.D



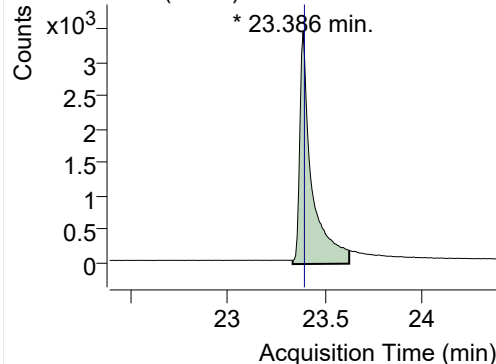
276.0, 138.0



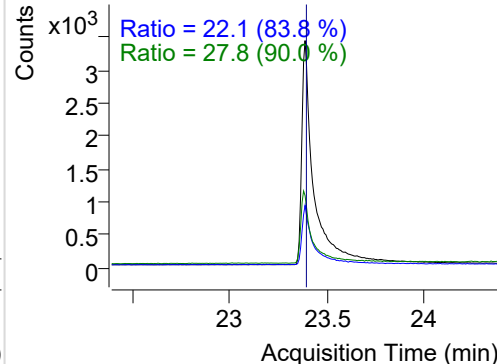
+ SIM (21.034-21.354 min, 43 scans) (**) 2301

**Coronene**

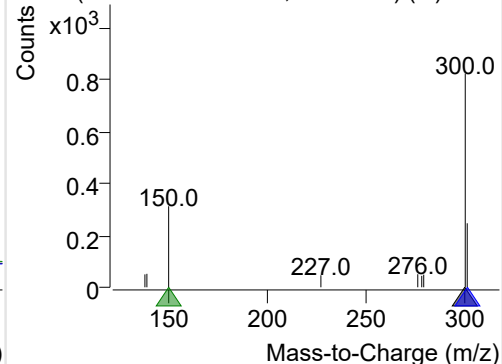
+ Selected Ion (300.0) 230112-PAHs-008.D



300.0, 301.0, 150.0



+ SIM (23.332-23.622 min, 39 scans) (**) 2301



Quantitative Analysis Sample Based Report

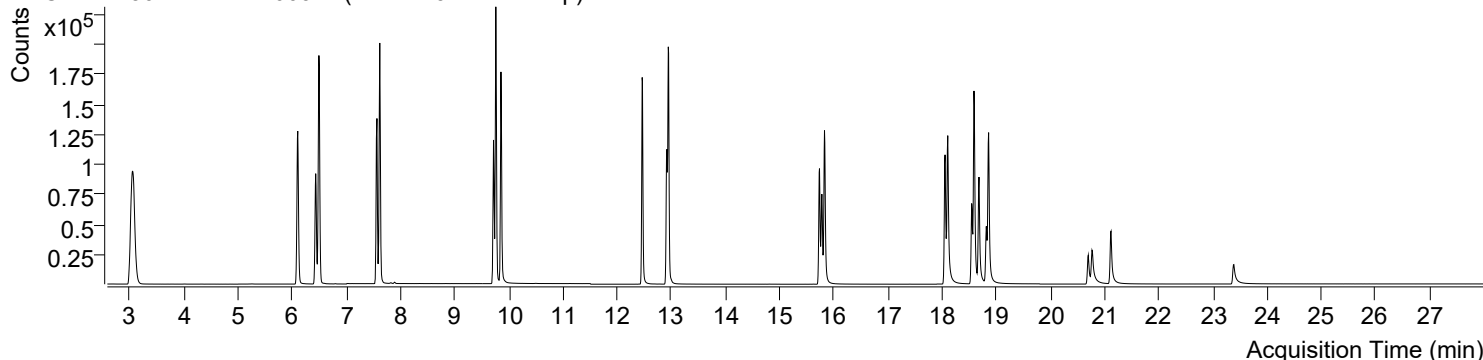


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 3:53:23	Data File	230112-PAHs-009.D
Type	Sample	Name	PAHs-19mix-STD-1p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

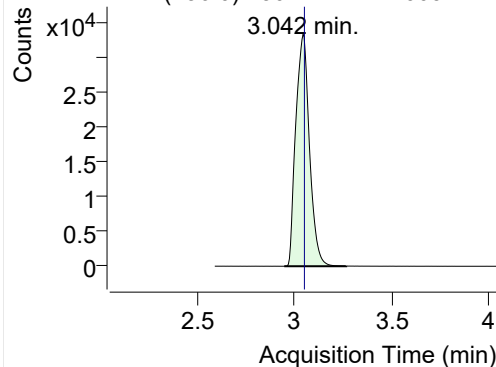
+ TIC SIM 230112-PAHs-009.D (PAHs-19mix-STD-1p)



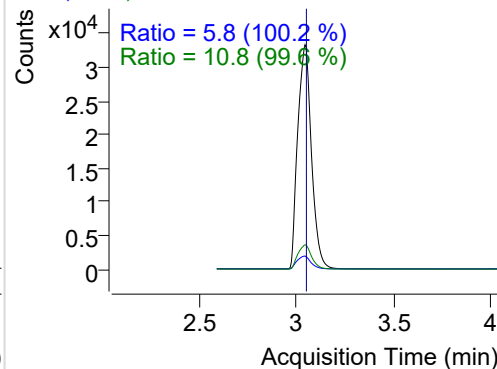
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	163068	33286.82	ND ng/ml	10.8
Naphthalene	3.069	128.0	254750	52045.10	ND ng/ml	12.5
Acenaphthylene	6.102	152.0	197238	96106.64	ND ng/ml	19.1
IS-D10-Acenaphthene	6.433	164.0	84412	44690.60	ND ng/ml	93.5
Acenaphthene	6.493	154.0	133364	68195.88	ND ng/ml	104.7
LSS-D10-Fluorene	7.564	176.0	108228	64563.47	ND ng/ml	90.9
Fluorene	7.617	166.0	163077	97630.18	ND ng/ml	90.5
IS-D10-Phenanthrene	9.717	188.0	147549	96326.10	ND ng/ml	14.9
Phenanthrene	9.759	178.0	233079	150235.19	ND ng/ml	18.3
Anthracene	9.853	178.0	191189	117423.51	ND ng/ml	17.4
Fluoranthene	12.461	202.0	213906	133385.06	ND ng/ml	17.0
LSS-D10-Pyrene	12.916	212.0	137249	80448.97	ND ng/ml	18.2
Pyrene	12.943	202.0	241789	144808.19	ND ng/ml	17.6
Benz(a)anthracene	15.735	228.0	124887	66655.33	ND ng/ml	25.4
IS-D12-Chrysene	15.778	240.0	98753	51310.11	ND ng/ml	18.9
Chrysene	15.827	228.0	166682	84393.27	ND ng/ml	28.0
Benzo(b)fluoranthene	18.053	252.0	113292	64218.00	ND ng/ml	21.4
Benzo(k)fluoranthene	18.103	252.0	172920	73137.63	ND ng/ml	21.7
SS-D12-Benzo(e)pyrene	18.544	264.0	95960	45233.04	ND ng/ml	25.0
Benzo(e)pyrene	18.587	252.0	168172	85153.15	ND ng/ml	21.6
Benzo(a)pyrene	18.680	252.0	111987	51480.18	ND ng/ml	20.4
IS-D12-Perylene	18.815	264.0	59180	29437.32	ND ng/ml	27.4
Perylene	18.858	252.0	139308	66094.55	ND ng/ml	21.4
Indeno(1,2,3-c,d)pytene	20.698	276.0	47095	19510.27	ND ng/ml	21.3
Dibenz(a,h)anthracene	20.766	278.0	51380	14107.78	ND ng/ml	21.0
Benzo(g,h,i)perylene	21.118	276.0	95026	35010.49	ND ng/ml	22.2
Coronene	23.385	300.0	44879	10586.31	ND ng/ml	26.8

IS-D8-Naphthalene

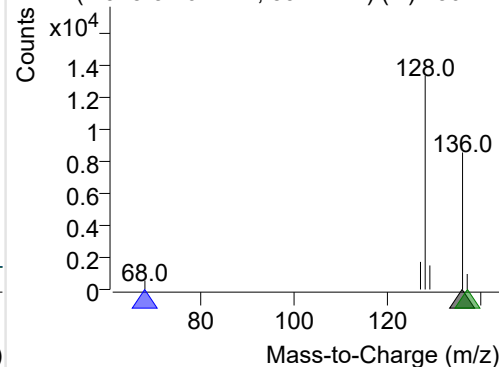
+ Selected Ion (136.0) 230112-PAHs-009.D



136.0, 68.0, 137.0

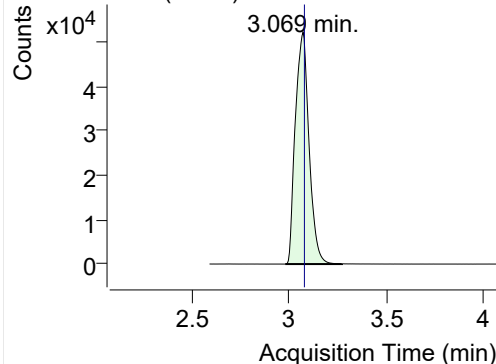


+ SIM (2.945-3.264 min, 59 scans) (**) 230112

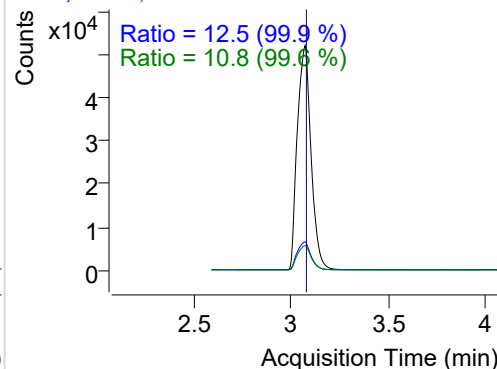


Naphthalene

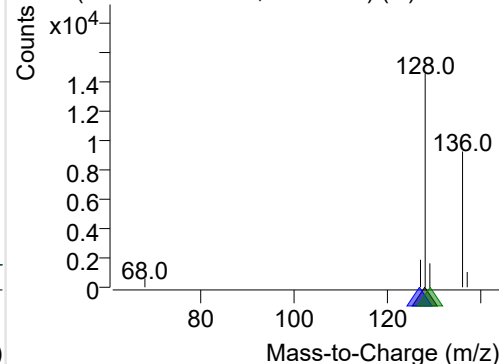
+ Selected Ion (128.0) 230112-PAHs-009.D



128.0, 127.0, 129.0

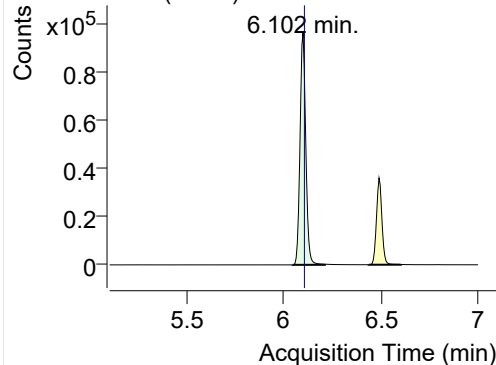


+ SIM (2.977-3.269 min, 54 scans) (**) 230112

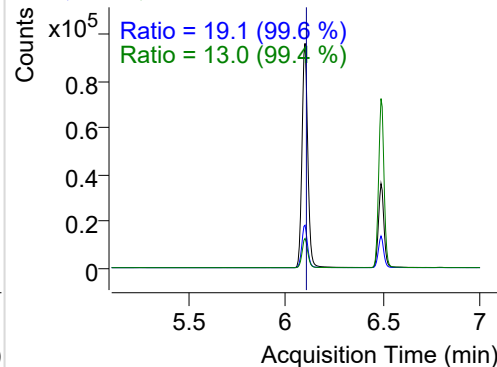


Acenaphthylene

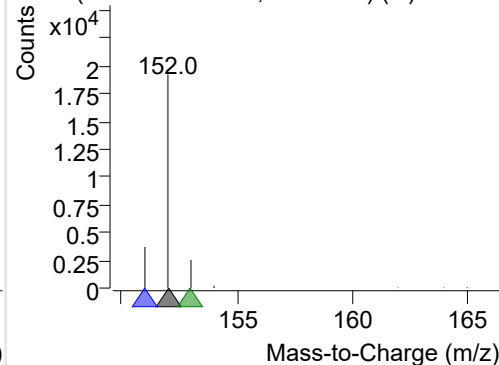
+ Selected Ion (152.0) 230112-PAHs-009.D



152.0, 151.0, 153.0

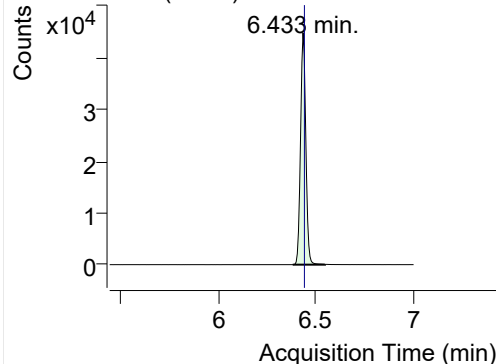


+ SIM (6.049-6.214 min, 29 scans) (**) 230112

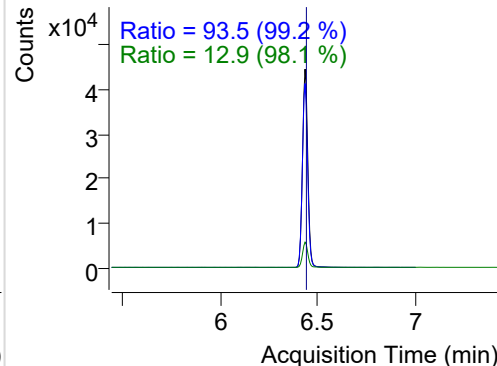


IS-D10-Acenaphthene

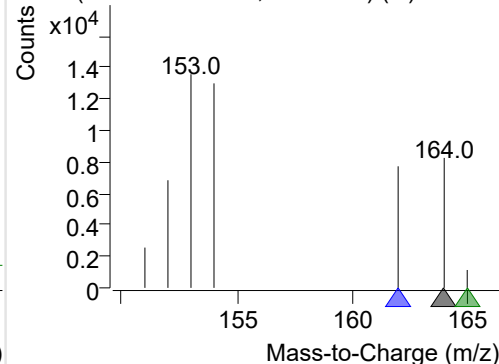
+ Selected Ion (164.0) 230112-PAHs-009.D



164.0, 162.0, 165.0

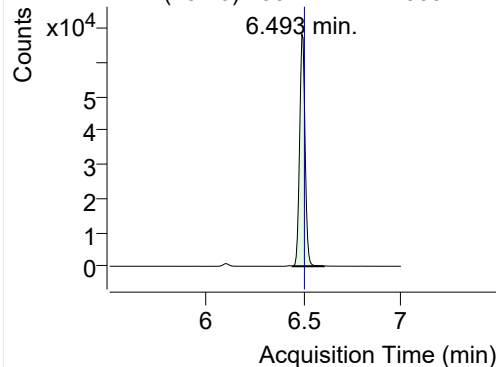


+ SIM (6.380-6.546 min, 29 scans) (**) 230112

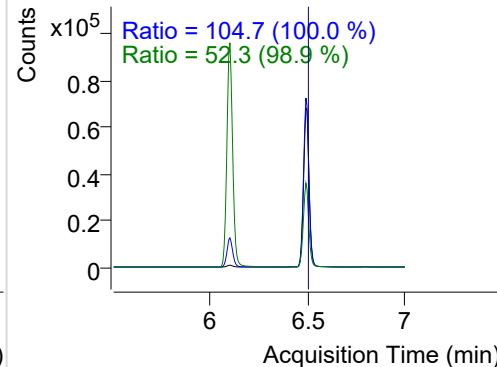


Acenaphthene

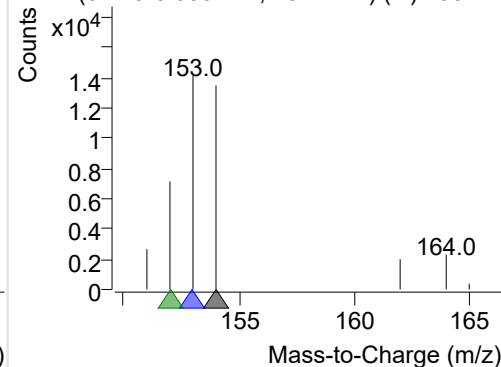
+ Selected Ion (154.0) 230112-PAHs-009.D



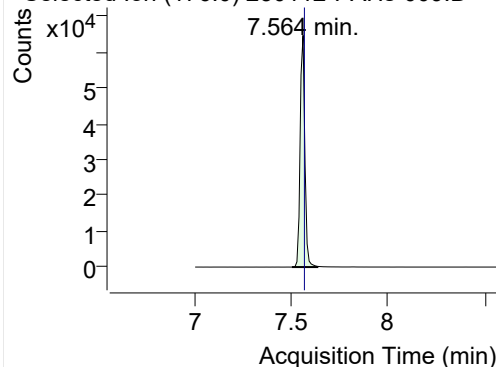
154.0, 153.0, 152.0



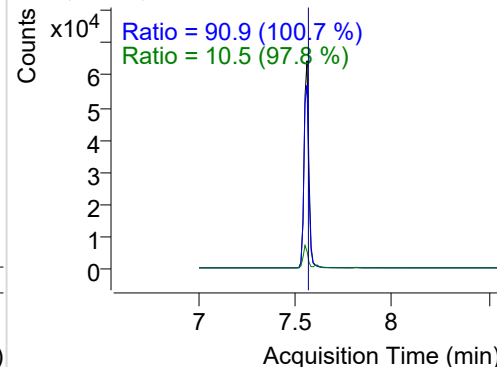
+ SIM (6.445-6.605 min, 28 scans) (**) 230112

**LSS-D10-Fluorene**

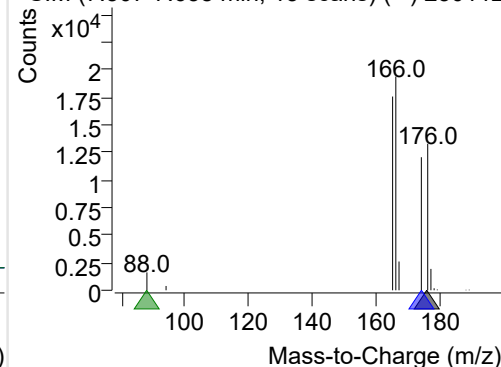
+ Selected Ion (176.0) 230112-PAHs-009.D



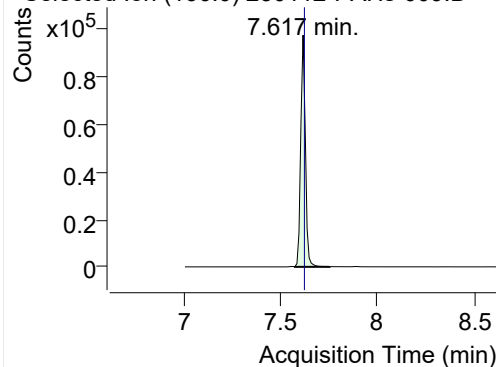
176.0, 174.0, 88.0



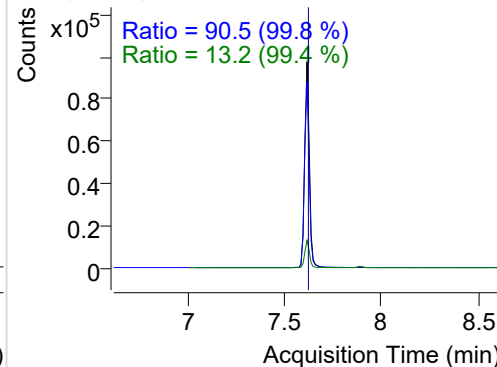
+ SIM (7.507-7.638 min, 13 scans) (**) 230112

**Fluorene**

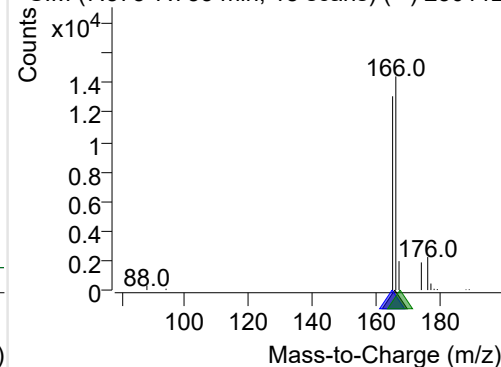
+ Selected Ion (166.0) 230112-PAHs-009.D



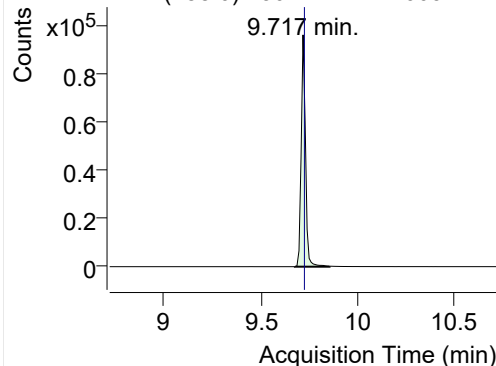
166.0, 165.0, 167.0



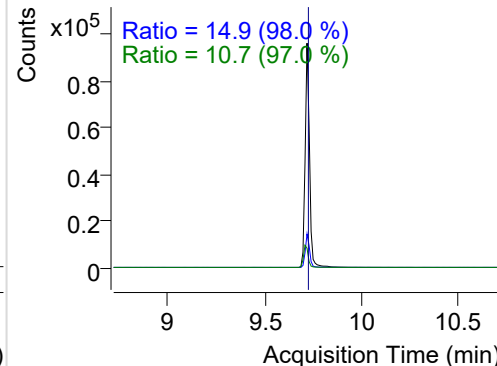
+ SIM (7.575-7.753 min, 18 scans) (**) 230112

**IS-D10-Phenanthrene**

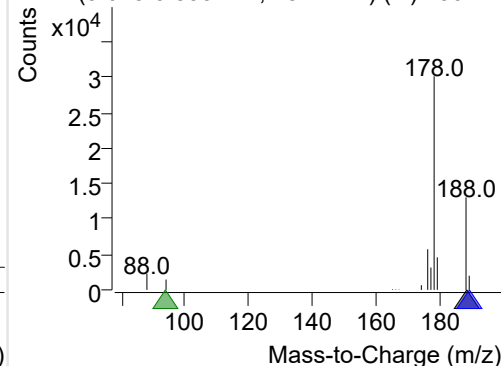
+ Selected Ion (188.0) 230112-PAHs-009.D



188.0, 189.0, 94.0

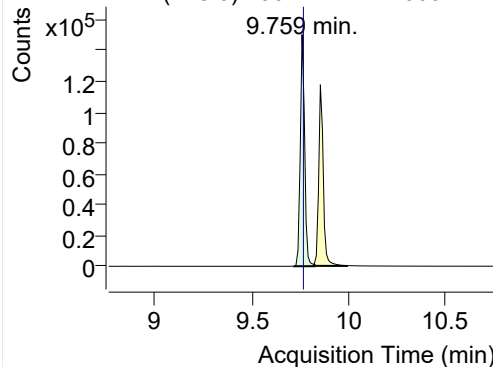


+ SIM (9.675-9.853 min, 18 scans) (**) 230112

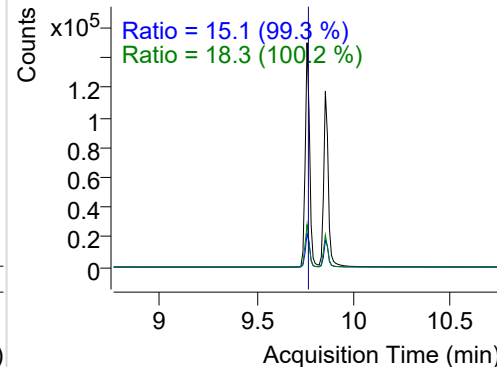


Phenanthrene

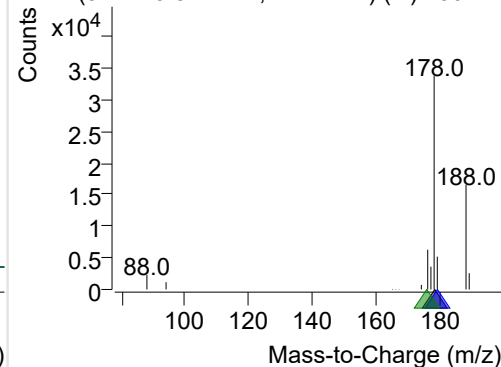
+ Selected Ion (178.0) 230112-PAHs-009.D



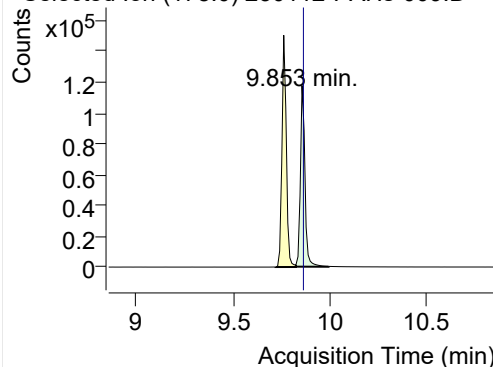
178.0, 179.0, 176.0



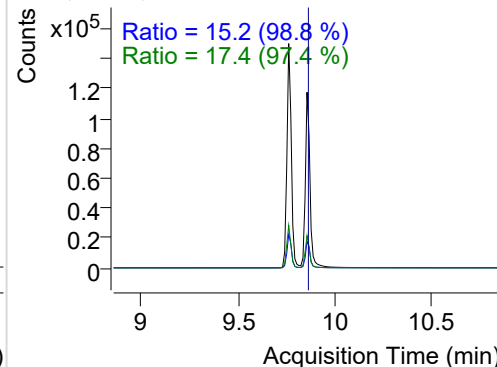
+ SIM (9.717-9.822 min, 11 scans) (**) 230112

**Anthracene**

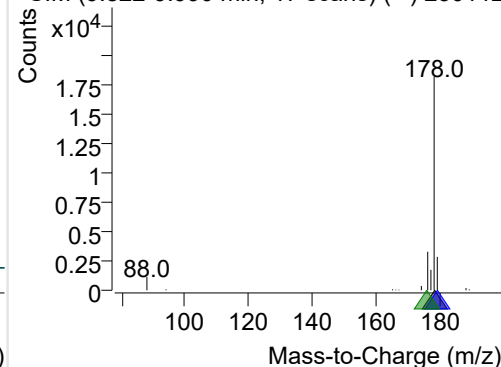
+ Selected Ion (178.0) 230112-PAHs-009.D



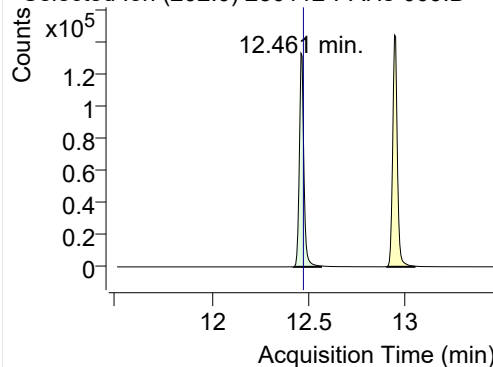
178.0, 179.0, 176.0



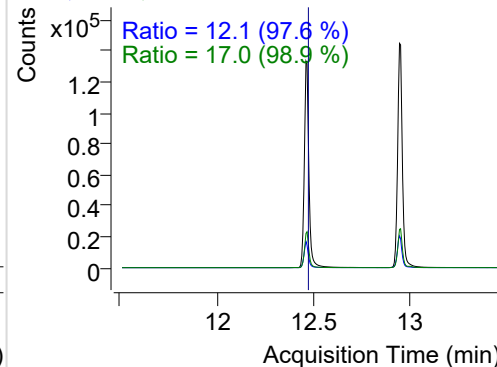
+ SIM (9.822-9.990 min, 17 scans) (**) 230112

**Fluoranthene**

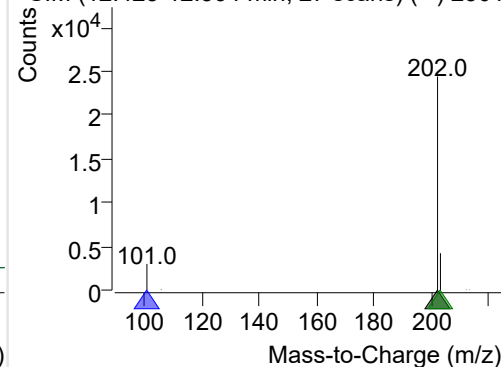
+ Selected Ion (202.0) 230112-PAHs-009.D



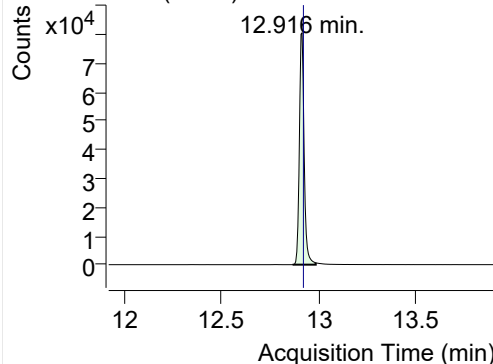
202.0, 101.0, 203.0



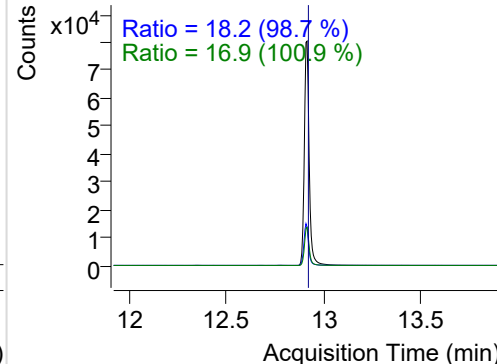
+ SIM (12.423-12.564 min, 27 scans) (**) 2301

**LSS-D10-Pyrene**

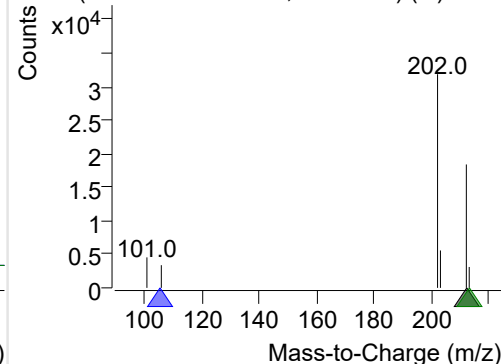
+ Selected Ion (212.0) 230112-PAHs-009.D



212.0, 106.0, 213.0

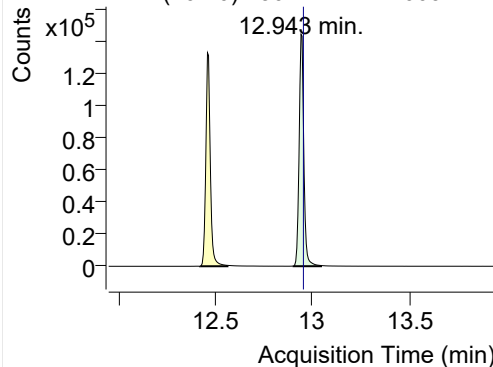


+ SIM (12.868-12.987 min, 23 scans) (**) 2301

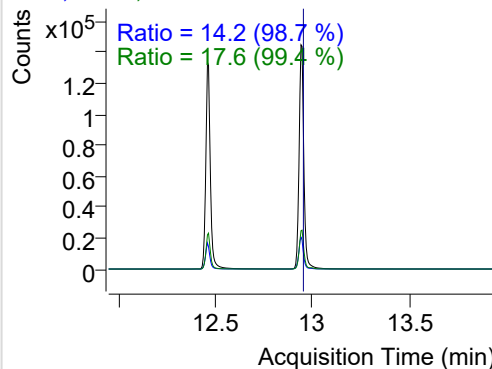


Pyrene

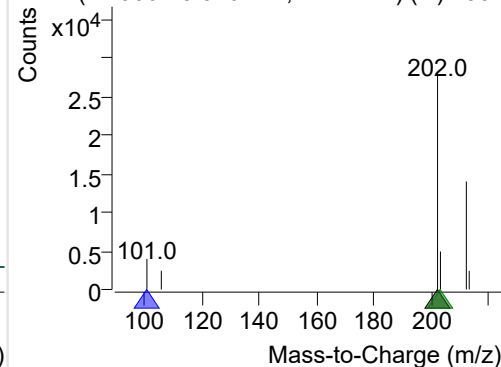
+ Selected Ion (202.0) 230112-PAHs-009.D



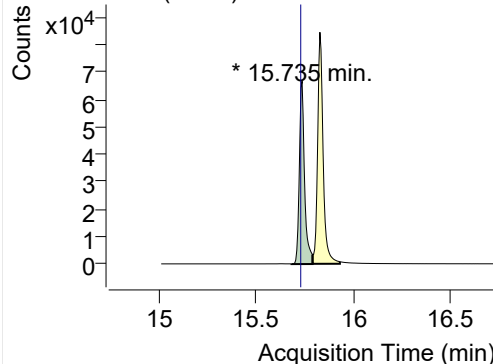
202.0, 101.0, 203.0



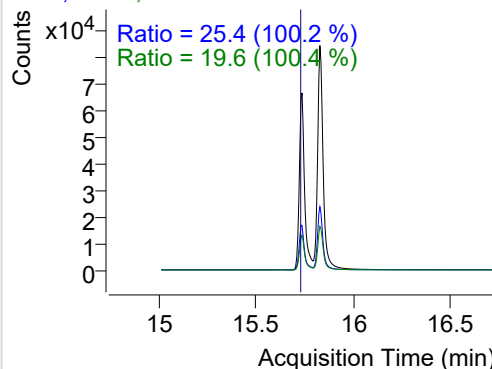
+ SIM (12.906-13.046 min, 27 scans) (**) 2301

**Benz(a)anthracene**

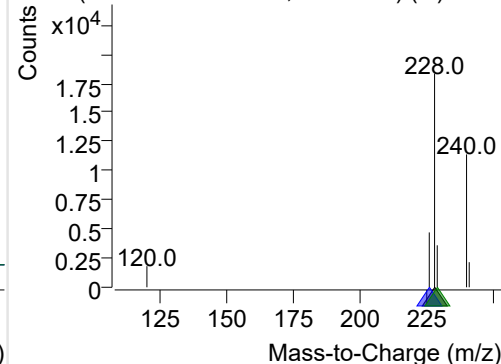
+ Selected Ion (228.0) 230112-PAHs-009.D



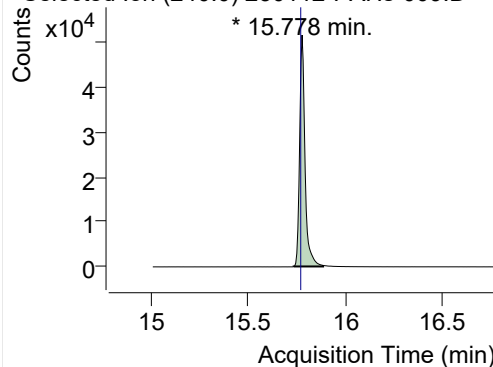
228.0, 226.0, 229.0



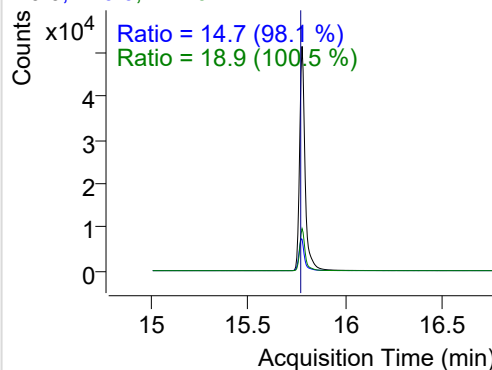
+ SIM (15.681-15.789 min, 21 scans) (**) 2301

**IS-D12-Chrysene**

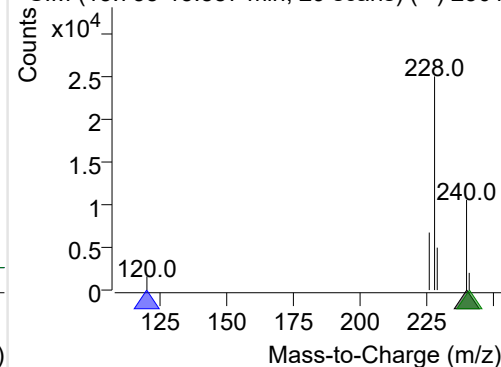
+ Selected Ion (240.0) 230112-PAHs-009.D



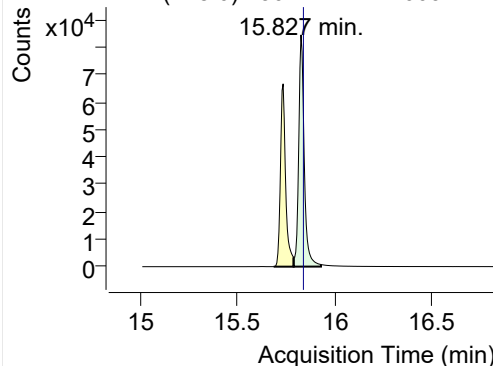
240.0, 120.0, 241.0



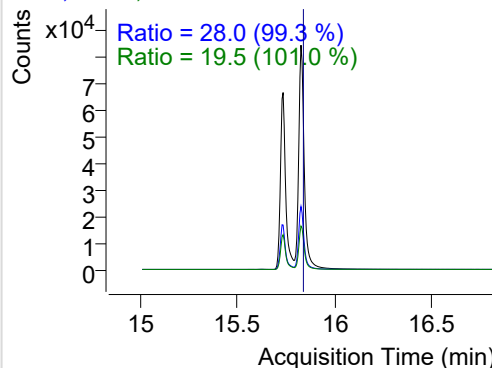
+ SIM (15.735-15.887 min, 29 scans) (**) 2301

**Chrysene**

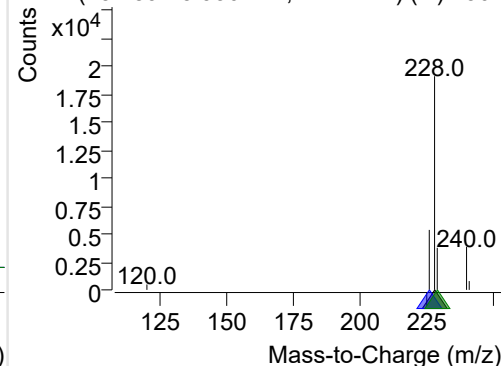
+ Selected Ion (228.0) 230112-PAHs-009.D



228.0, 226.0, 229.0

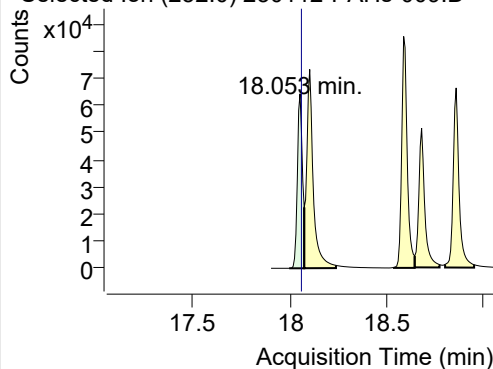


+ SIM (15.789-15.930 min, 27 scans) (**) 2301

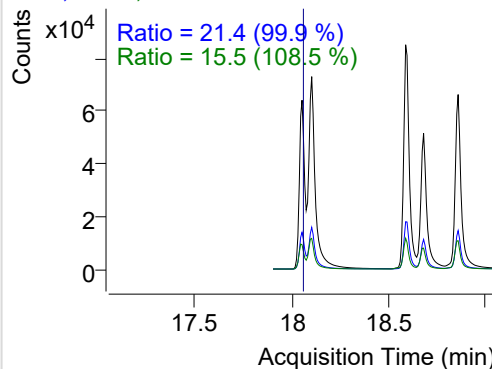


Benzo(b)fluoranthene

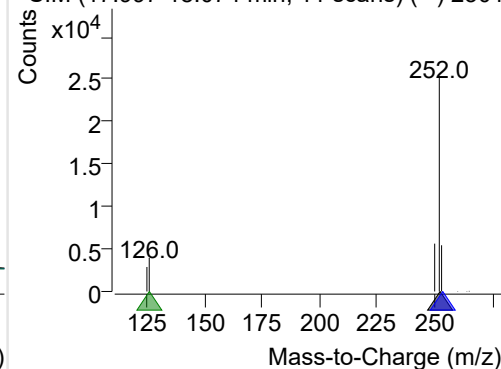
+ Selected Ion (252.0) 230112-PAHs-009.D



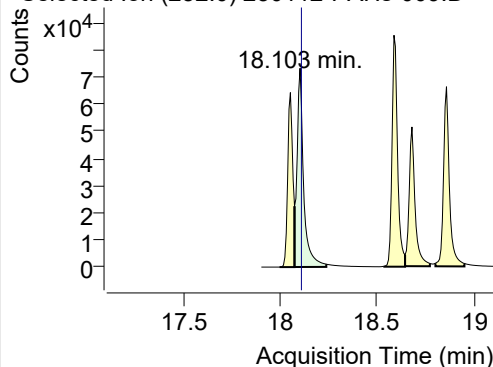
252.0, 253.0, 126.0



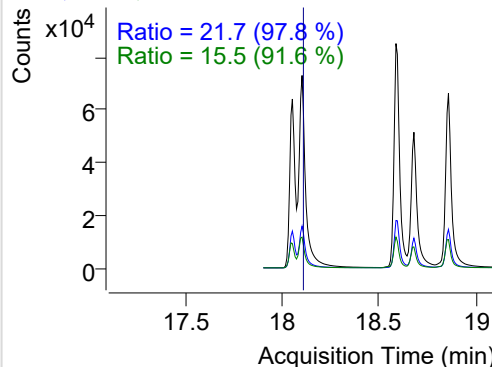
+ SIM (17.997-18.074 min, 11 scans) (**) 2301

**Benzo(k)fluoranthene**

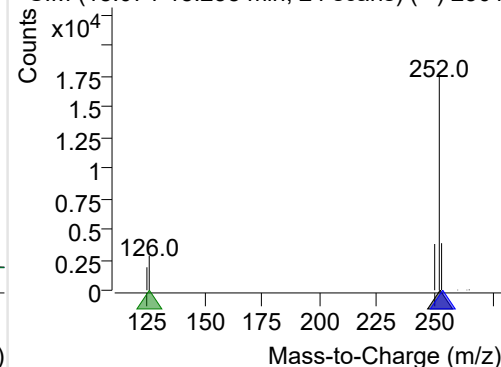
+ Selected Ion (252.0) 230112-PAHs-009.D



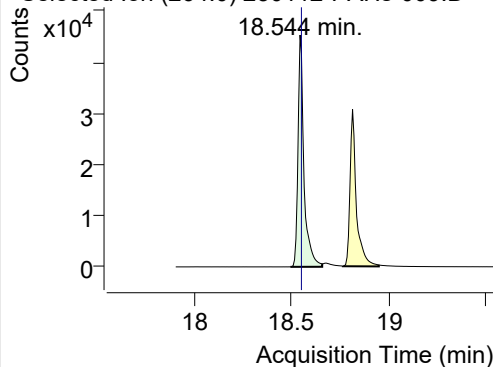
252.0, 253.0, 126.0



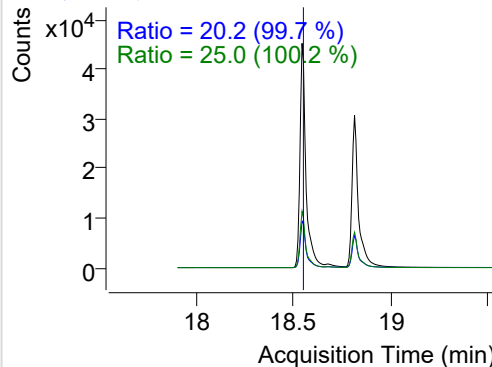
+ SIM (18.074-18.238 min, 24 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

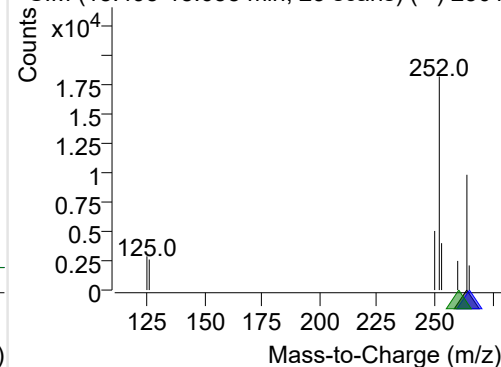
+ Selected Ion (264.0) 230112-PAHs-009.D



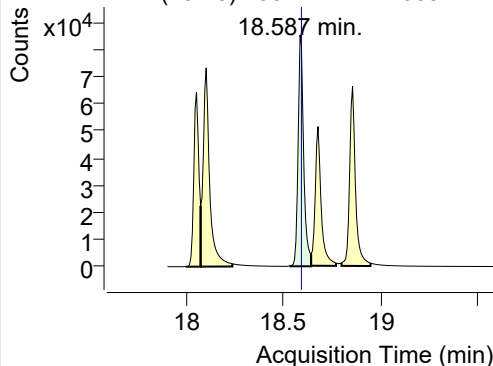
264.0, 265.0, 260.0



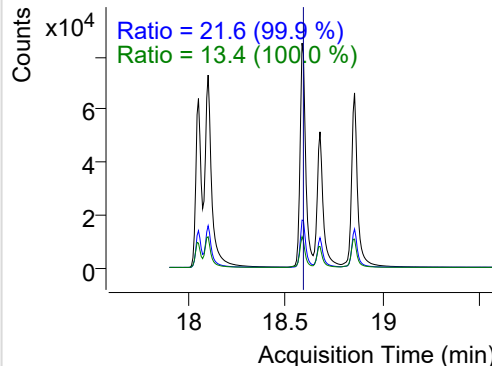
+ SIM (18.495-18.658 min, 23 scans) (**) 2301

**Benzo(e)pyrene**

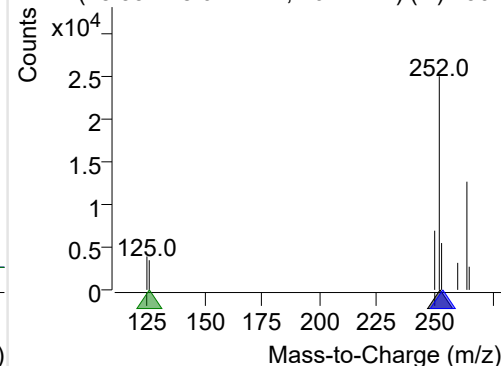
+ Selected Ion (252.0) 230112-PAHs-009.D



252.0, 253.0, 126.0

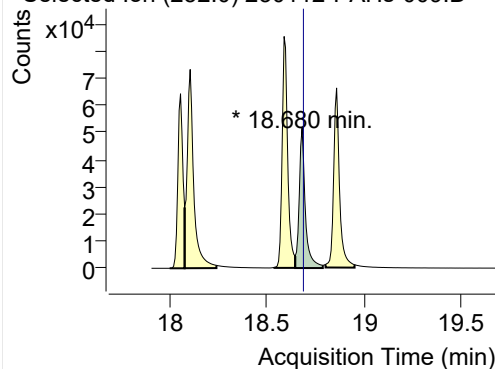


+ SIM (18.537-18.644 min, 16 scans) (**) 2301

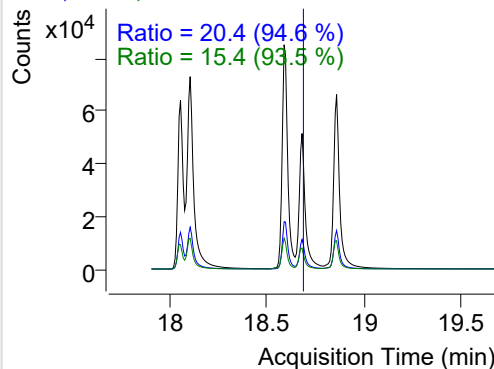


Benzo(a)pyrene

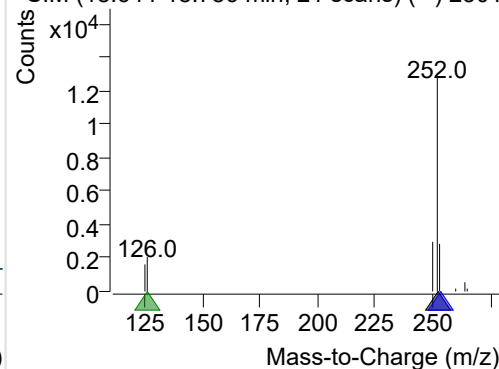
+ Selected Ion (252.0) 230112-PAHs-009.D



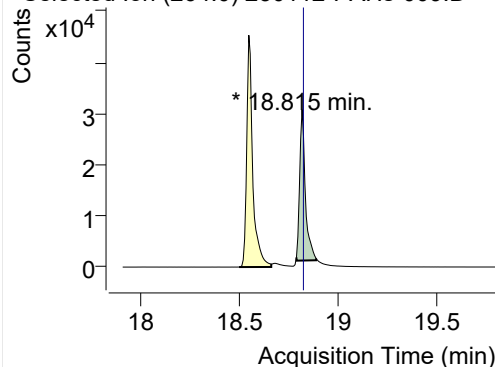
252.0, 253.0, 126.0



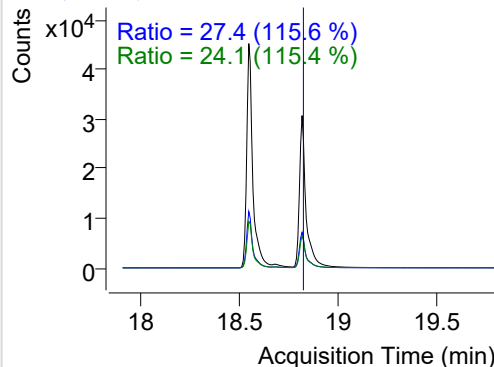
+ SIM (18.644-18.786 min, 21 scans) (**) 2301

**IS-D12-Perylene**

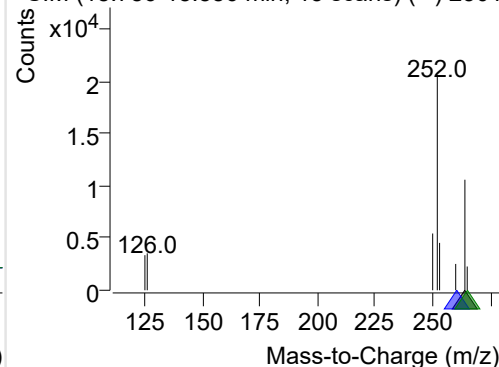
+ Selected Ion (264.0) 230112-PAHs-009.D



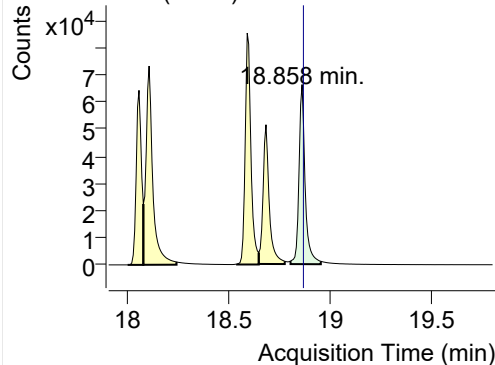
264.0, 260.0, 265.0



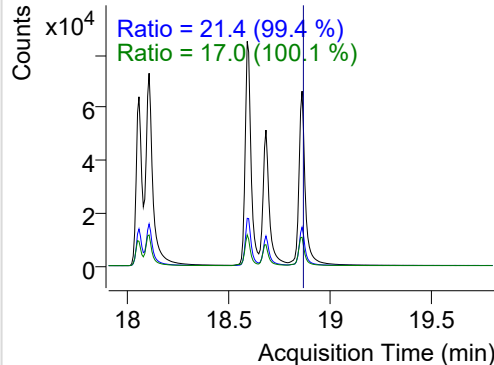
+ SIM (18.786-18.886 min, 15 scans) (**) 2301

**Perylene**

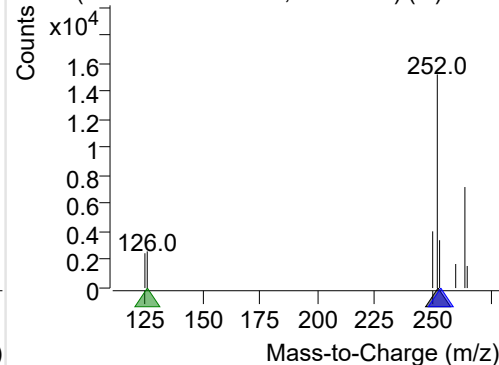
+ Selected Ion (252.0) 230112-PAHs-009.D



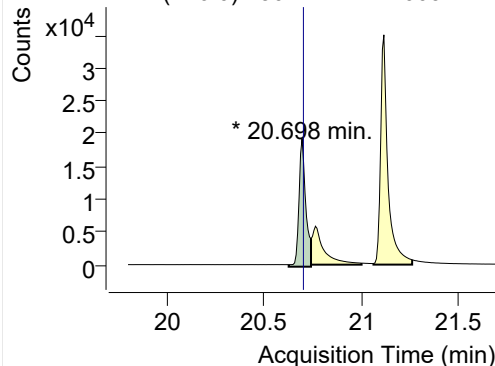
252.0, 253.0, 126.0



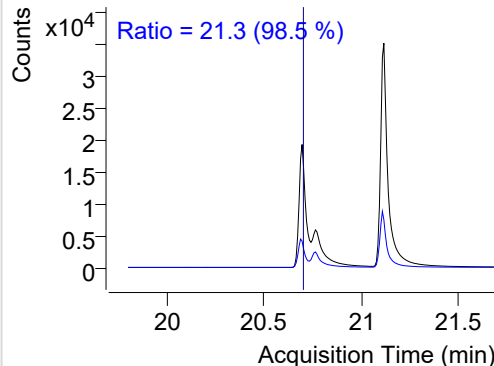
+ SIM (18.801-18.950 min, 22 scans) (**) 2301

**Indeno(1,2,3-c,d)pyrene**

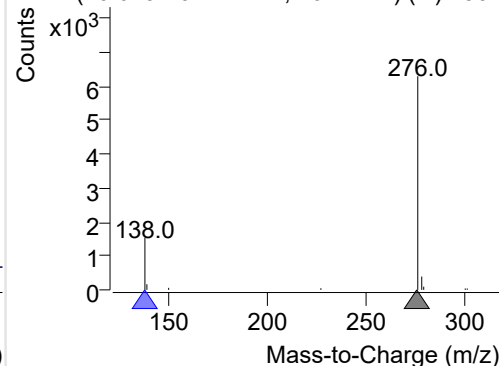
+ Selected Ion (276.0) 230112-PAHs-009.D



276.0, 138.0

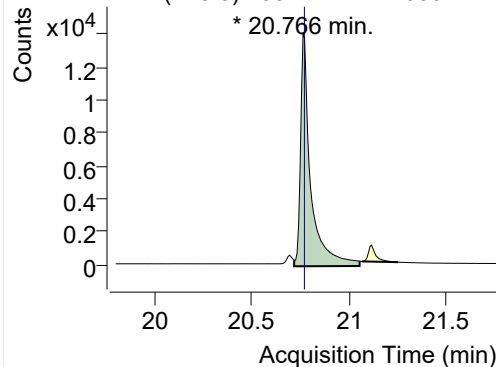


+ SIM (20.629-20.744 min, 16 scans) (**) 2301

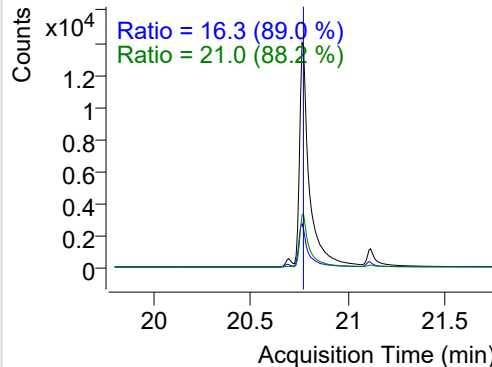


Dibenz(a,h)anthracene

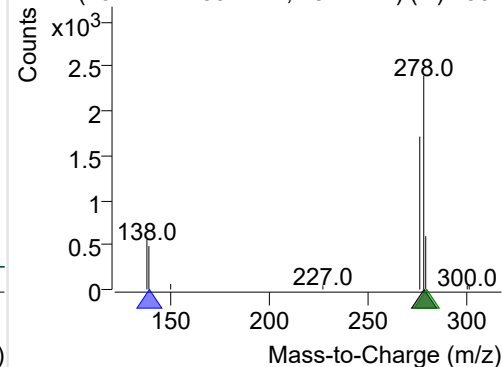
+ Selected Ion (278.0) 230112-PAHs-009.D



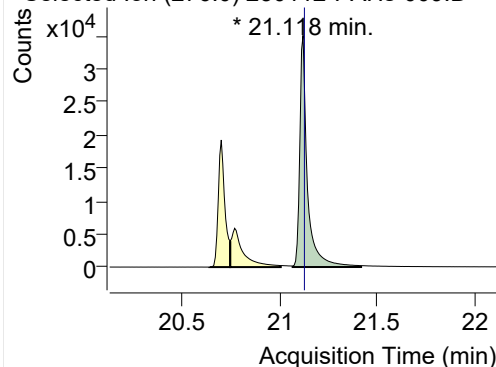
278.0, 139.0, 279.0



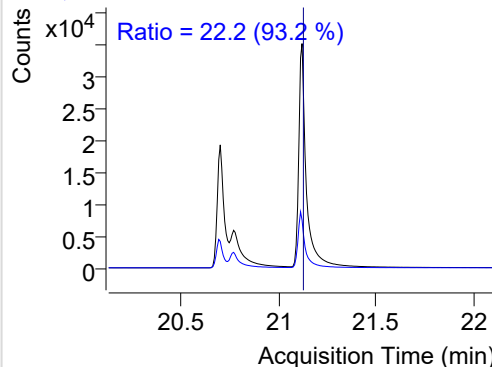
+ SIM (20.721-21.057 min, 45 scans) (**) 2301

**Benzo(g,h,i)perylene**

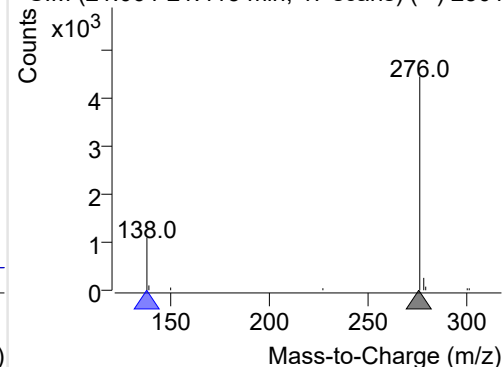
+ Selected Ion (276.0) 230112-PAHs-009.D



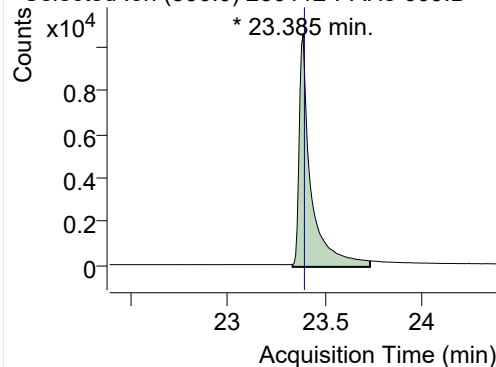
276.0, 138.0



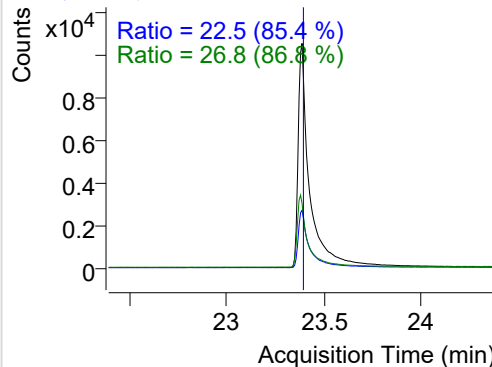
+ SIM (21.064-21.415 min, 47 scans) (**) 2301

**Coronene**

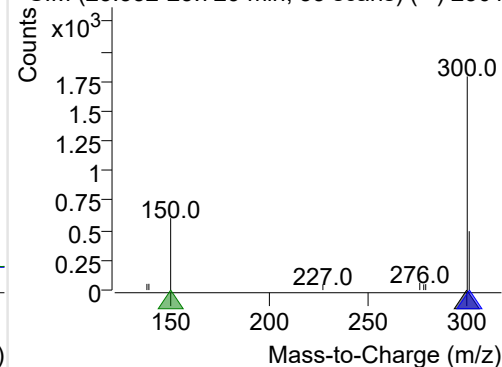
+ Selected Ion (300.0) 230112-PAHs-009.D



300.0, 301.0, 150.0



+ SIM (23.332-23.729 min, 53 scans) (**) 2301



Quantitative Analysis Sample Based Report

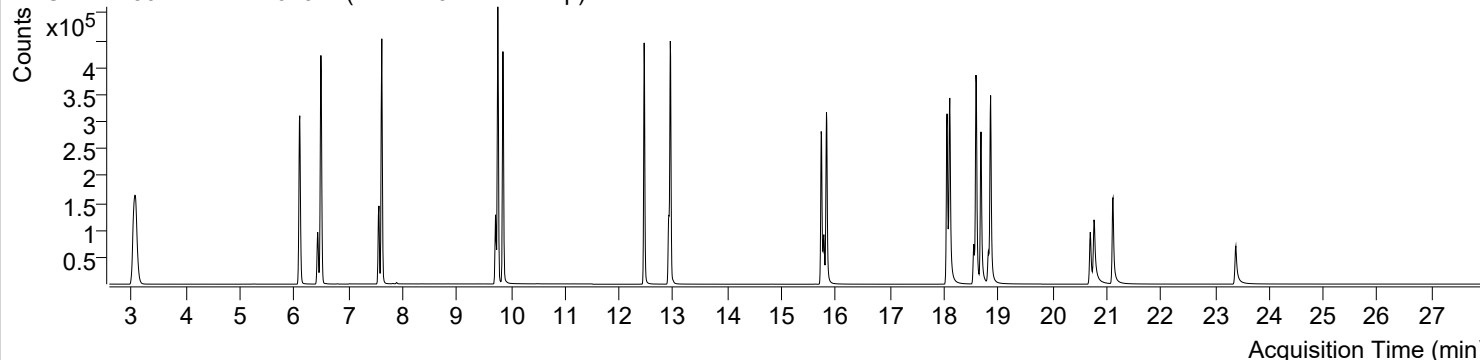


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 4:24:33	Data File	230112-PAHs-010.D
Type	Sample	Name	PAHs-19mix-STD-2p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

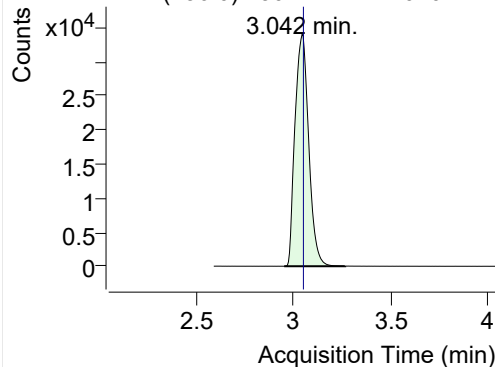
+ TIC SIM 230112-PAHs-010.D (PAHs-19mix-STD-2p)



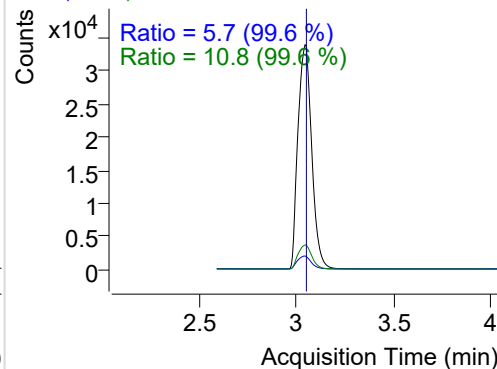
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	166344	33909.71	ND ng/ml	10.8
Naphthalene	3.069	128.0	541629	109620.76	ND ng/ml	12.5
Acenaphthylene	6.102	152.0	464350	234170.94	ND ng/ml	19.1
IS-D10-Acenaphthene	6.433	164.0	86362	46304.39	ND ng/ml	93.7
Acenaphthene	6.493	154.0	291679	152511.36	ND ng/ml	104.6
LSS-D10-Fluorene	7.564	176.0	113936	67497.20	ND ng/ml	90.6
Fluorene	7.617	166.0	363404	222269.72	ND ng/ml	90.4
IS-D10-Phenanthrene	9.717	188.0	154807	102438.33	ND ng/ml	14.9
Phenanthrene	9.759	178.0	520272	335524.54	ND ng/ml	18.4
Anthracene	9.853	178.0	463227	286457.85	ND ng/ml	17.7
Fluoranthene	12.461	202.0	515888	344575.61	ND ng/ml	17.2
LSS-D10-Pyrene	12.916	212.0	147412	86954.46	ND ng/ml	18.3
Pyrene	12.943	202.0	547379	336204.65	ND ng/ml	17.6
Benz(a)anthracene	15.730	228.0	350385	193833.59	ND ng/ml	25.6
IS-D12-Chrysene	15.778	240.0	113538	58277.71	ND ng/ml	18.5
Chrysene	15.827	228.0	397011	212044.37	ND ng/ml	28.0
Benzo(b)fluoranthene	18.053	252.0	319958	186833.17	ND ng/ml	21.4
Benzo(k)fluoranthene	18.103	252.0	467388	202833.17	ND ng/ml	21.7
SS-D12-Benzo(e)pyrene	18.544	264.0	106780	49217.10	ND ng/ml	24.9
Benzo(e)pyrene	18.587	252.0	413555	208608.14	ND ng/ml	21.5
Benzo(a)pyrene	18.680	252.0	311146	161049.24	ND ng/ml	22.0
IS-D12-Perylene	18.815	264.0	83509	35386.23	ND ng/ml	26.3
Perylene	18.858	252.0	370611	186779.36	ND ng/ml	21.5
Indeno(1,2,3-c,d)pytene	20.698	276.0	159181	74153.25	ND ng/ml	23.3
Dibenz(a,h)anthracene	20.766	278.0	160411	57627.96	ND ng/ml	26.0
Benzo(g,h,i)perylene	21.118	276.0	287963	126804.00	ND ng/ml	24.0
Coronene	23.385	300.0	130413	45854.95	ND ng/ml	31.3

IS-D8-Naphthalene

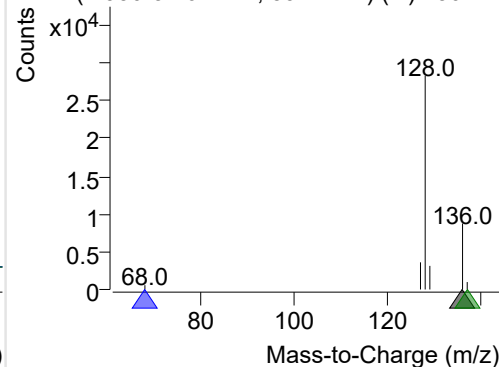
+ Selected Ion (136.0) 230112-PAHs-010.D



136.0, 68.0, 137.0

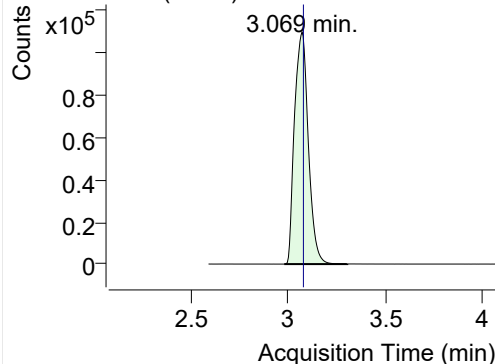


+ SIM (2.950-3.264 min, 59 scans) (**) 230112

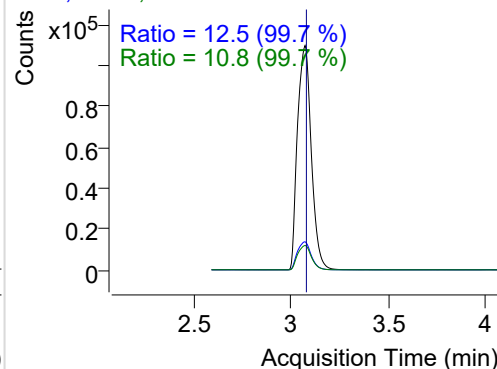


Naphthalene

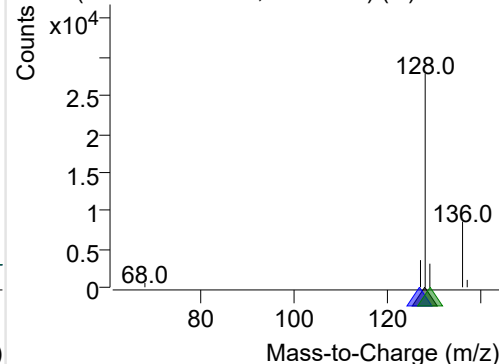
+ Selected Ion (128.0) 230112-PAHs-010.D



128.0, 127.0, 129.0

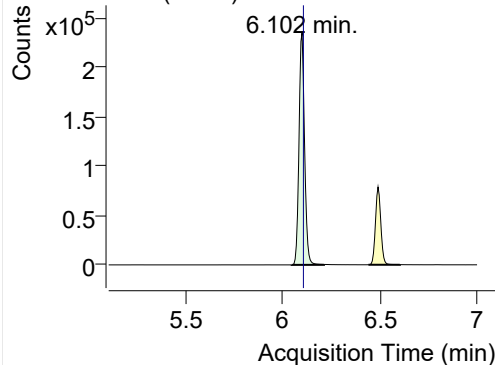


+ SIM (2.977-3.302 min, 60 scans) (**) 230112

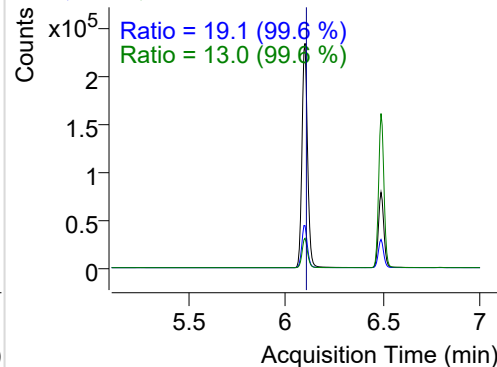


Acenaphthylene

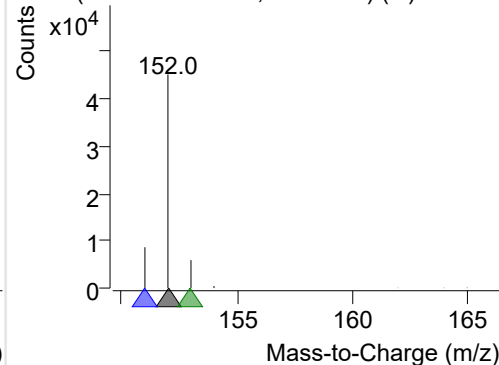
+ Selected Ion (152.0) 230112-PAHs-010.D



152.0, 151.0, 153.0

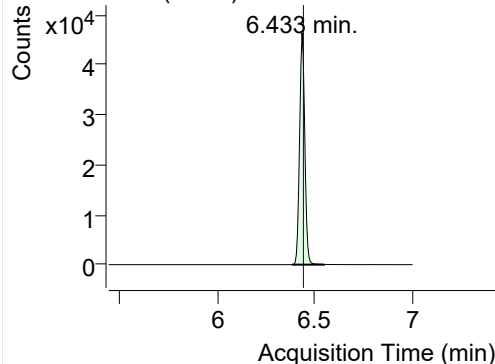


+ SIM (6.049-6.214 min, 29 scans) (**) 230112

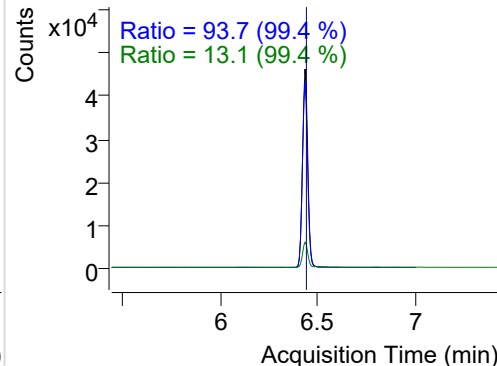


IS-D10-Acenaphthene

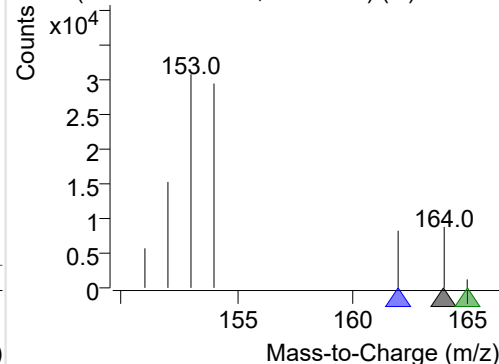
+ Selected Ion (164.0) 230112-PAHs-010.D



164.0, 162.0, 165.0

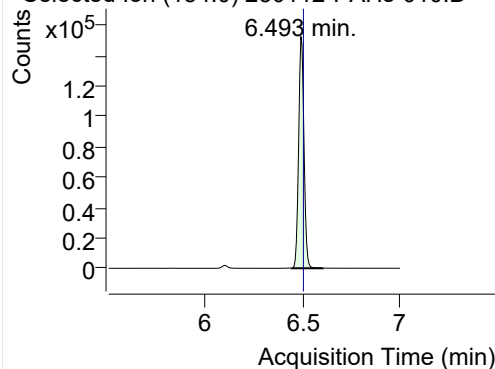


+ SIM (6.381-6.546 min, 28 scans) (**) 230112

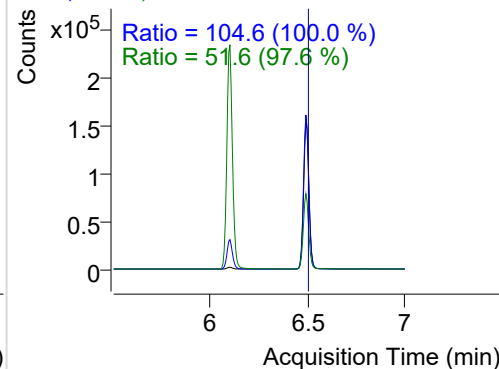


Acenaphthene

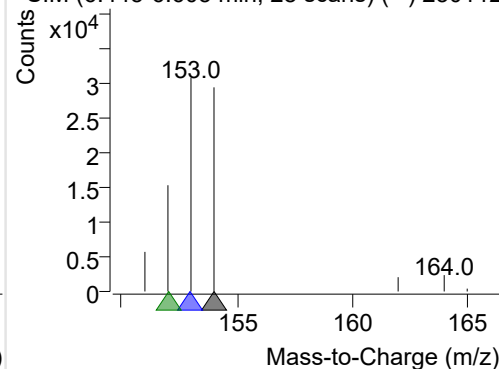
+ Selected Ion (154.0) 230112-PAHs-010.D



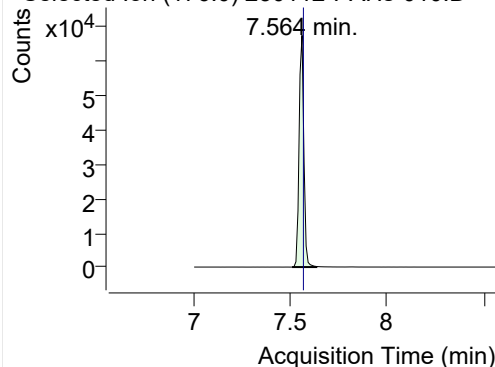
154.0, 153.0, 152.0



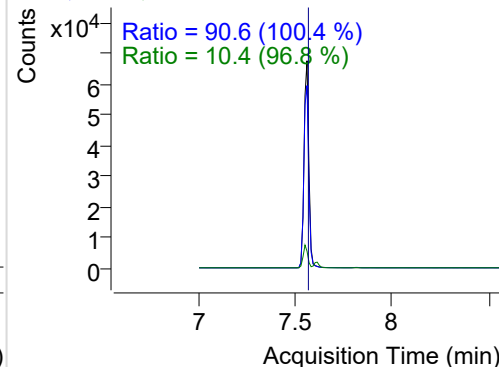
+ SIM (6.445-6.605 min, 28 scans) (**) 230112

**LSS-D10-Fluorene**

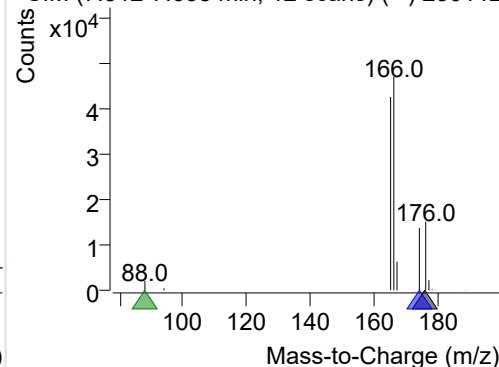
+ Selected Ion (176.0) 230112-PAHs-010.D



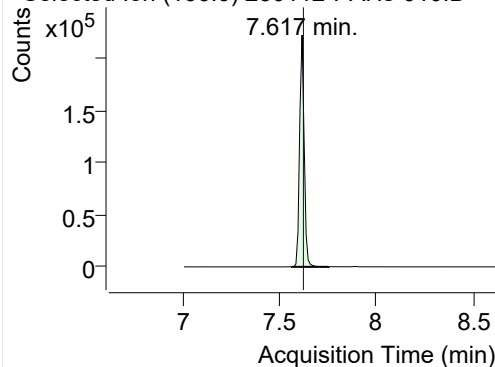
176.0, 174.0, 88.0



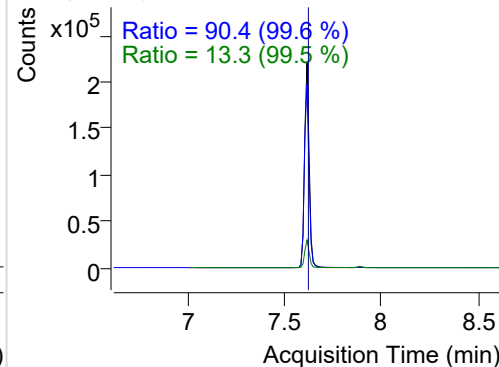
+ SIM (7.512-7.638 min, 12 scans) (**) 230112

**Fluorene**

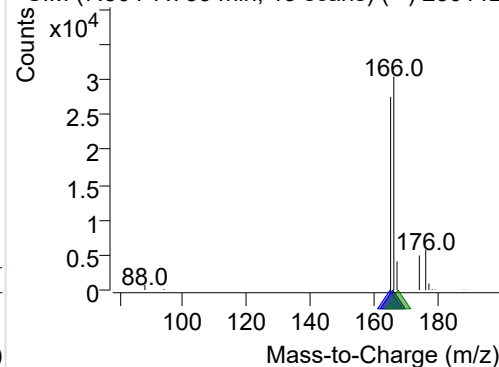
+ Selected Ion (166.0) 230112-PAHs-010.D



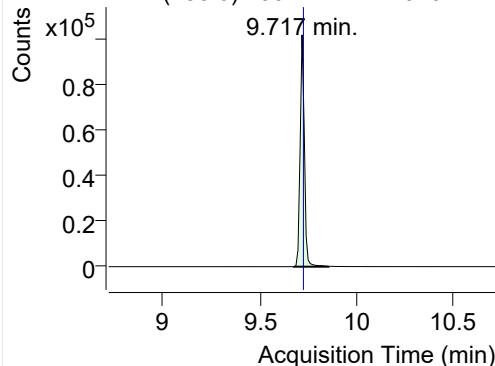
166.0, 165.0, 167.0



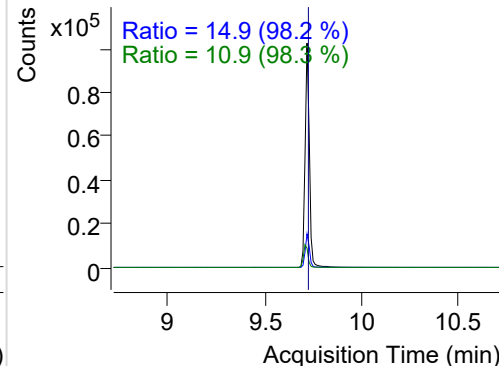
+ SIM (7.564-7.753 min, 19 scans) (**) 230112

**IS-D10-Phenanthrene**

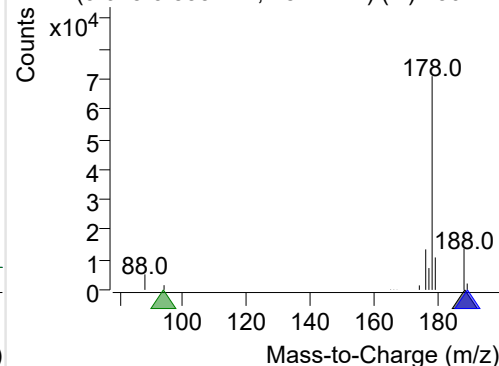
+ Selected Ion (188.0) 230112-PAHs-010.D



188.0, 189.0, 94.0

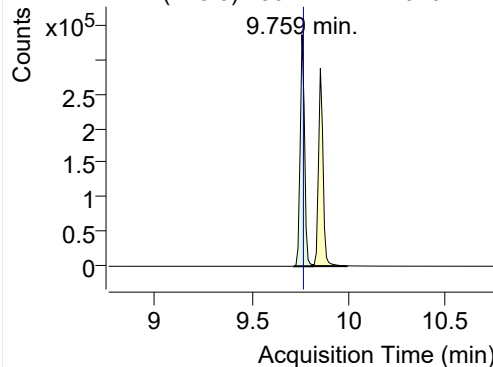


+ SIM (9.675-9.853 min, 18 scans) (**) 230112

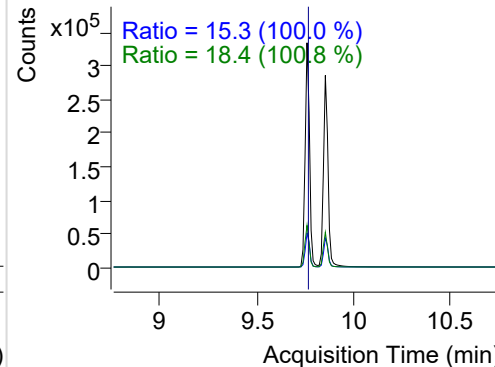


Phenanthrene

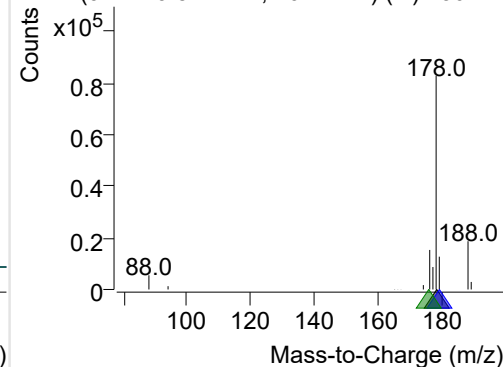
+ Selected Ion (178.0) 230112-PAHs-010.D



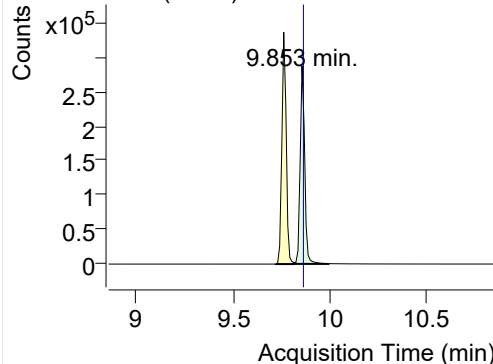
178.0, 179.0, 176.0



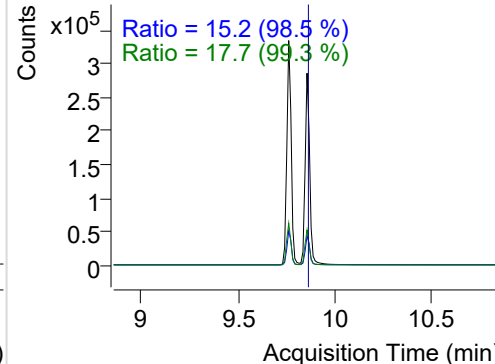
+ SIM (9.717-9.811 min, 10 scans) (**) 230112

**Anthracene**

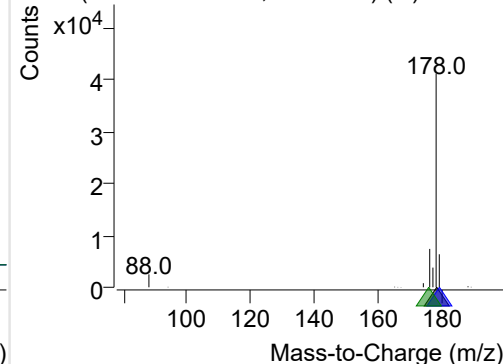
+ Selected Ion (178.0) 230112-PAHs-010.D



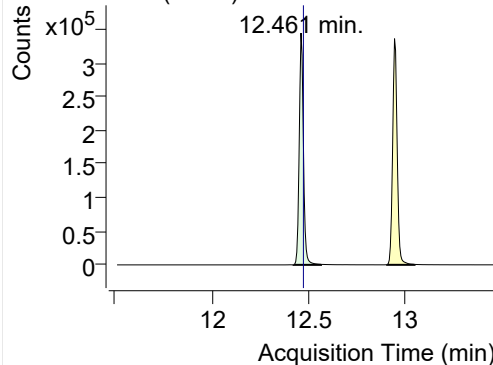
178.0, 179.0, 176.0



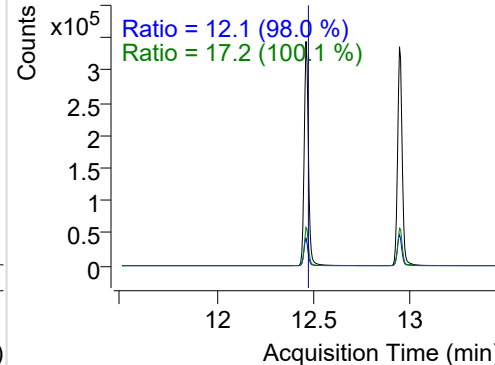
+ SIM (9.811-9.990 min, 18 scans) (**) 230112

**Fluoranthene**

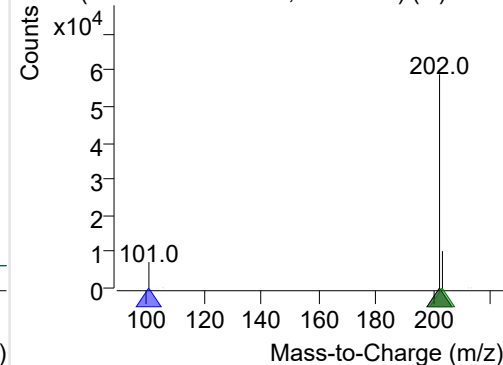
+ Selected Ion (202.0) 230112-PAHs-010.D



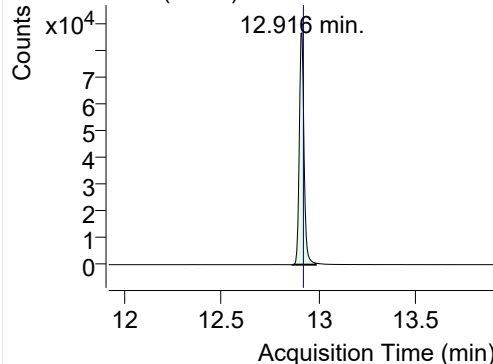
202.0, 101.0, 203.0



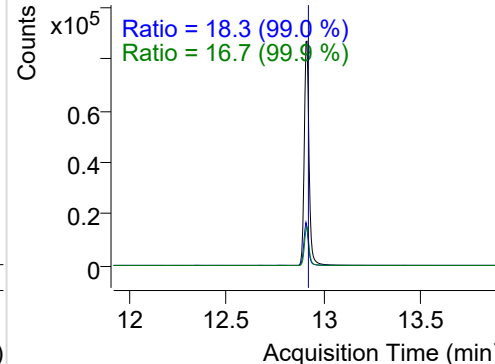
+ SIM (12.423-12.564 min, 27 scans) (**) 2301

**LSS-D10-Pyrene**

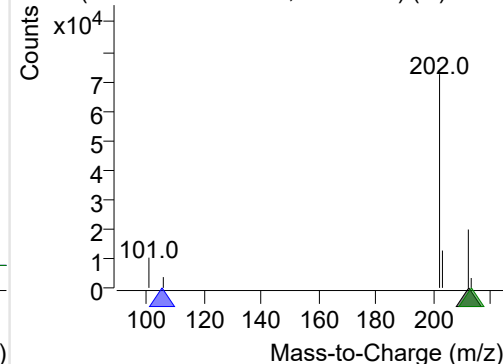
+ Selected Ion (212.0) 230112-PAHs-010.D



212.0, 106.0, 213.0

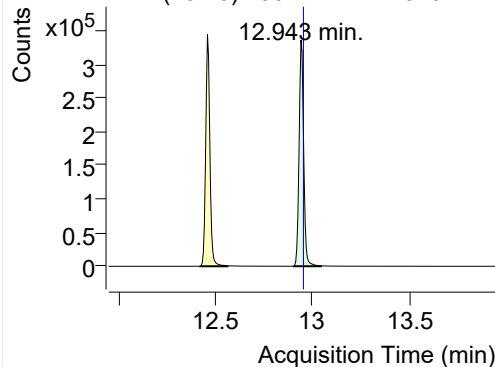


+ SIM (12.868-12.987 min, 23 scans) (**) 2301

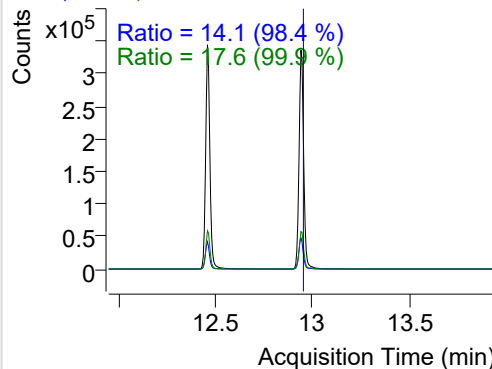


Pyrene

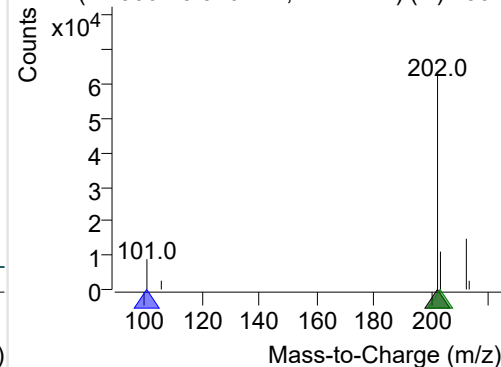
+ Selected Ion (202.0) 230112-PAHs-010.D



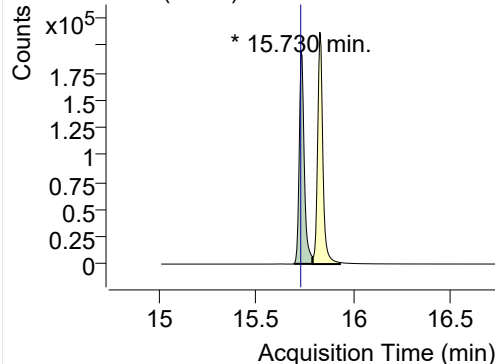
202.0, 101.0, 203.0



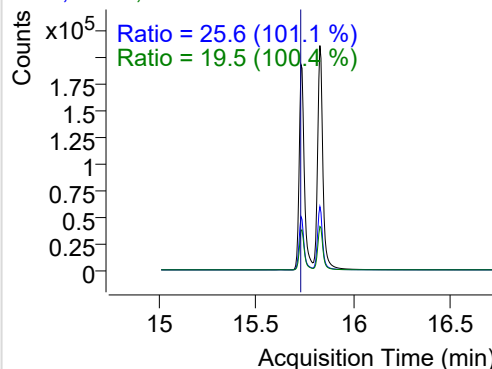
+ SIM (12.906-13.046 min, 27 scans) (**) 2301

**Benz(a)anthracene**

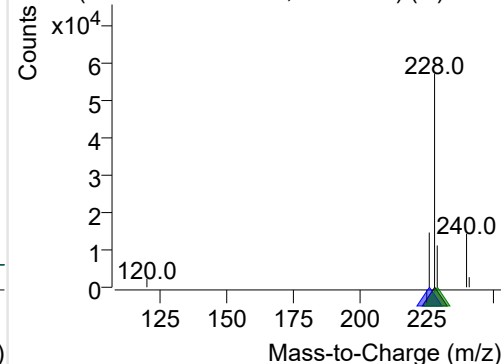
+ Selected Ion (228.0) 230112-PAHs-010.D



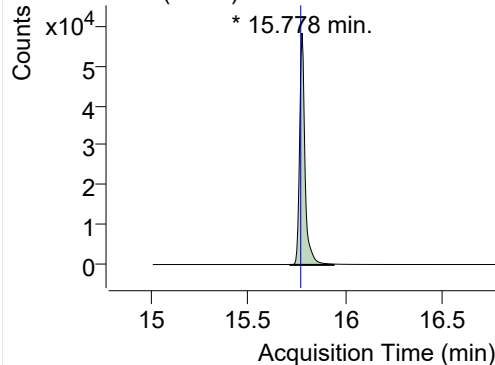
228.0, 226.0, 229.0



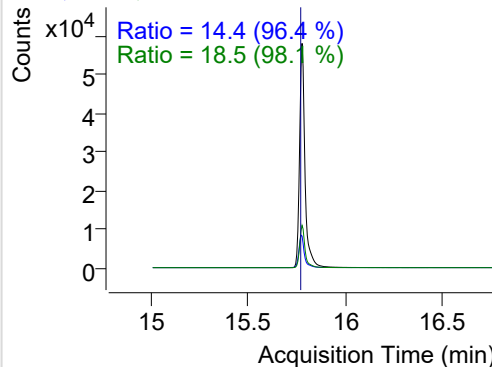
+ SIM (15.692-15.789 min, 19 scans) (**) 2301

**IS-D12-Chrysene**

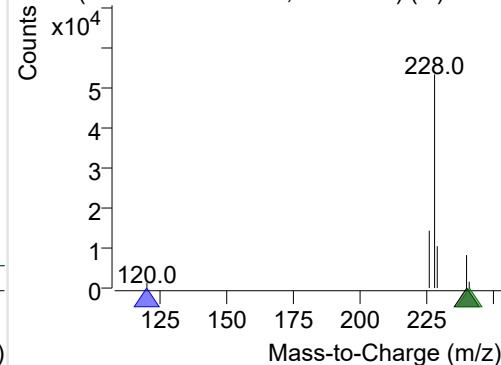
+ Selected Ion (240.0) 230112-PAHs-010.D



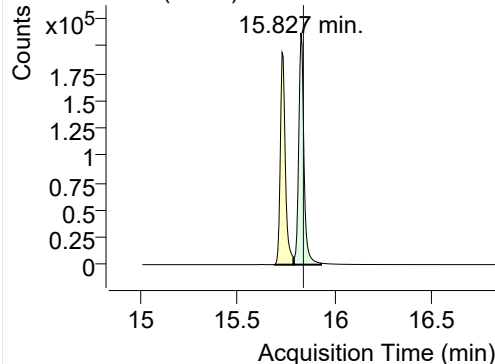
240.0, 120.0, 241.0



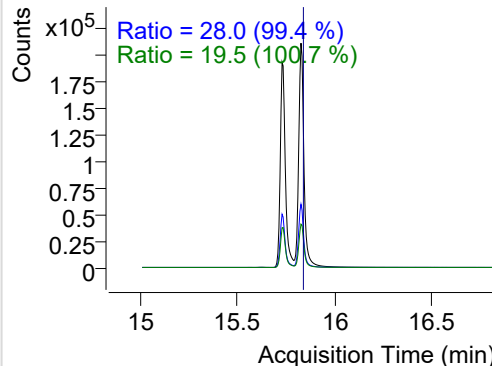
+ SIM (15.719-15.941 min, 42 scans) (**) 2301

**Chrysene**

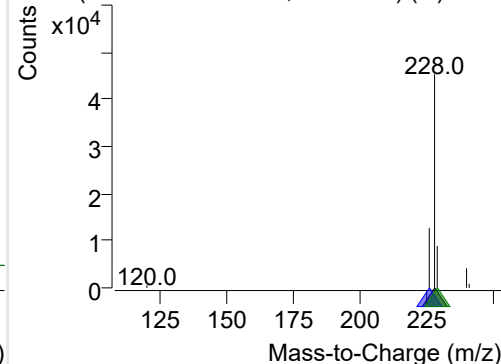
+ Selected Ion (228.0) 230112-PAHs-010.D



228.0, 226.0, 229.0

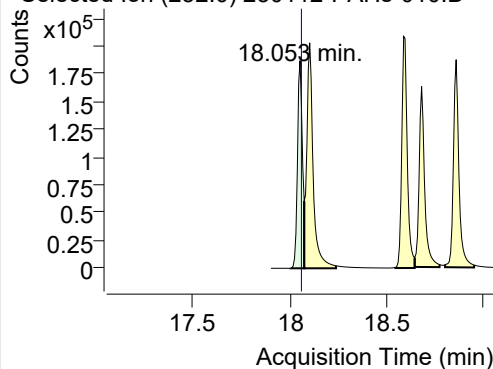


+ SIM (15.789-15.930 min, 27 scans) (**) 2301

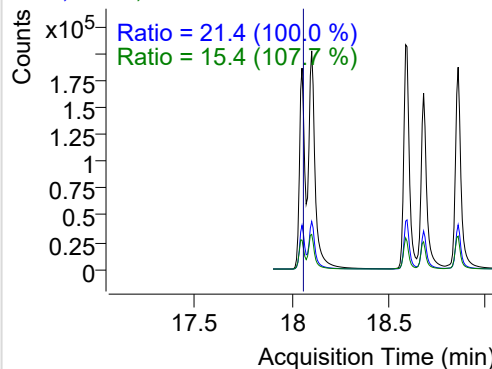


Benzo(b)fluoranthene

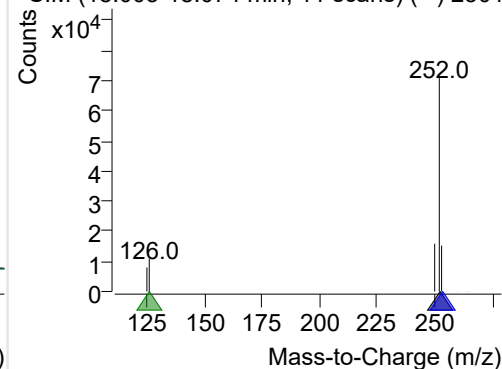
+ Selected Ion (252.0) 230112-PAHs-010.D



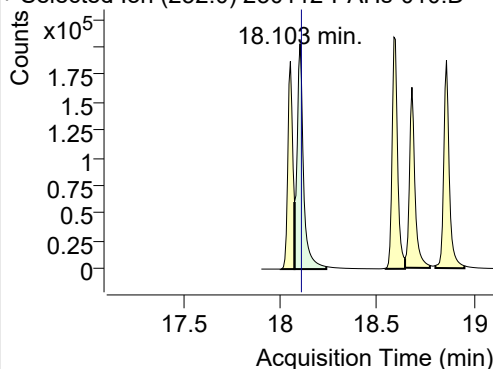
252.0, 253.0, 126.0



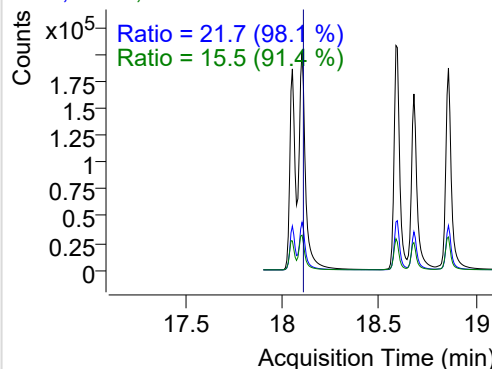
+ SIM (18.003-18.074 min, 11 scans) (**) 2301

**Benzo(k)fluoranthene**

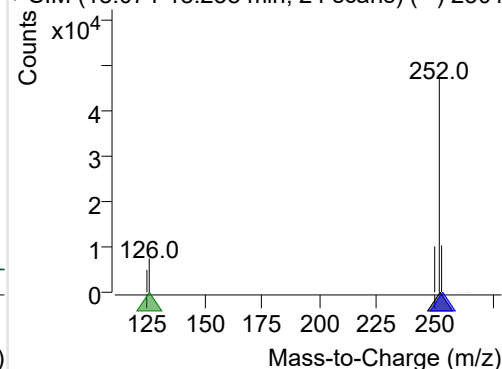
+ Selected Ion (252.0) 230112-PAHs-010.D



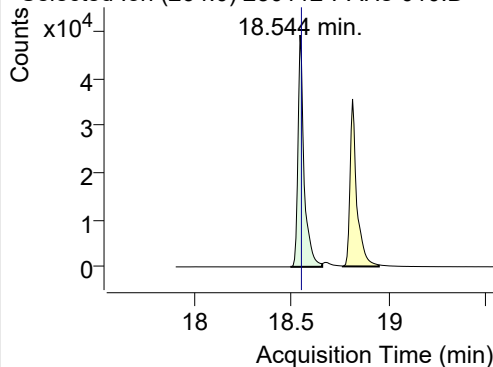
252.0, 253.0, 126.0



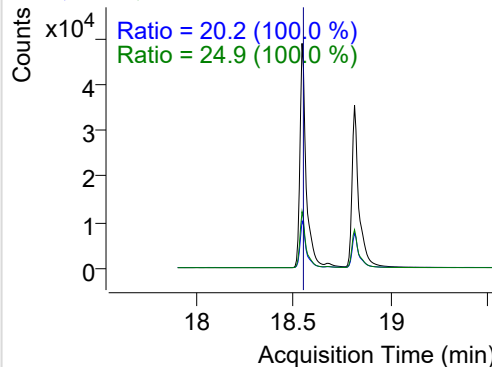
+ SIM (18.074-18.238 min, 24 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

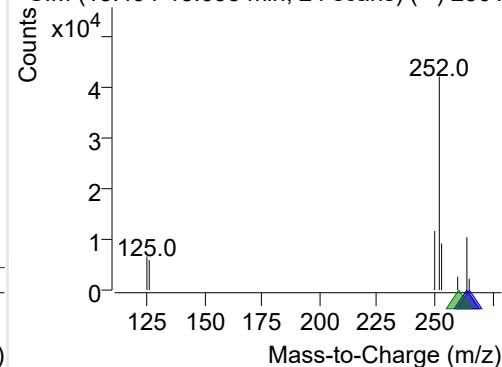
+ Selected Ion (264.0) 230112-PAHs-010.D



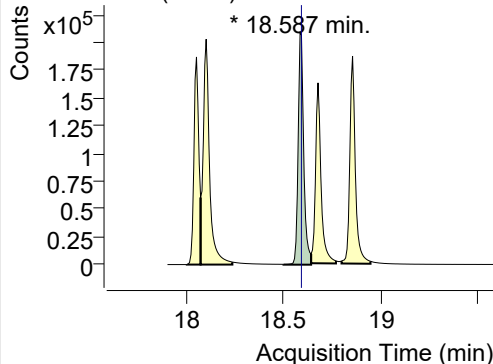
264.0, 265.0, 260.0



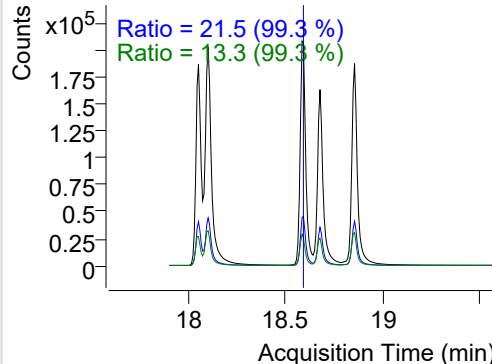
+ SIM (18.494-18.658 min, 24 scans) (**) 2301

**Benzo(e)pyrene**

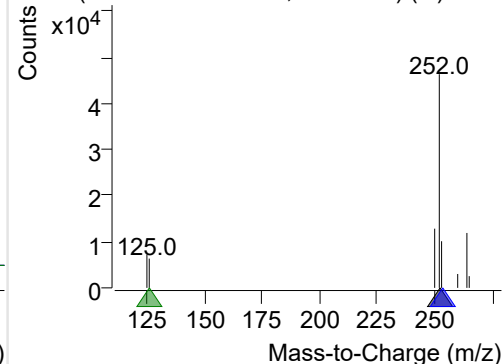
+ Selected Ion (252.0) 230112-PAHs-010.D



252.0, 253.0, 126.0

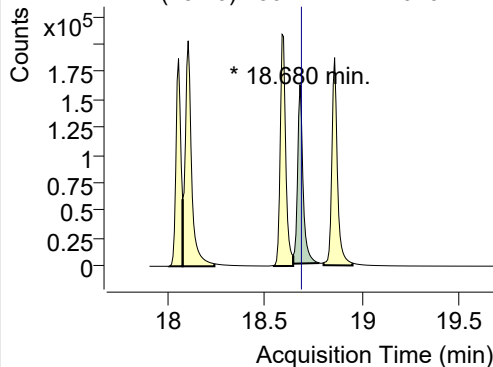


+ SIM (18.502-18.644 min, 21 scans) (**) 2301

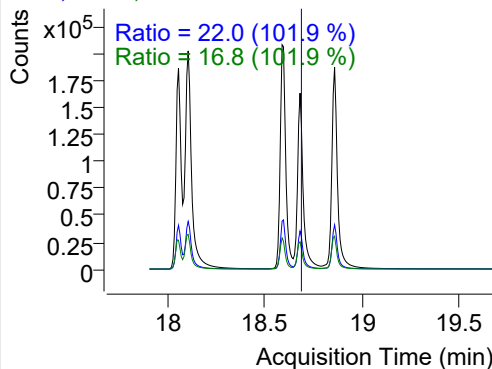


Benzo(a)pyrene

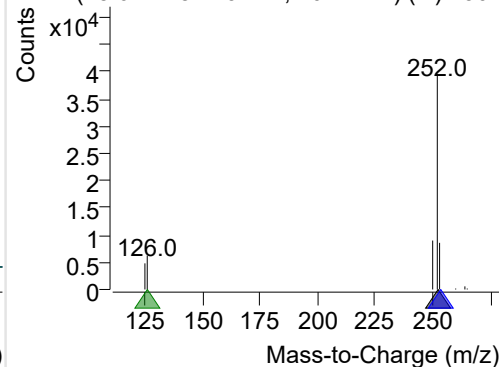
+ Selected Ion (252.0) 230112-PAHs-010.D



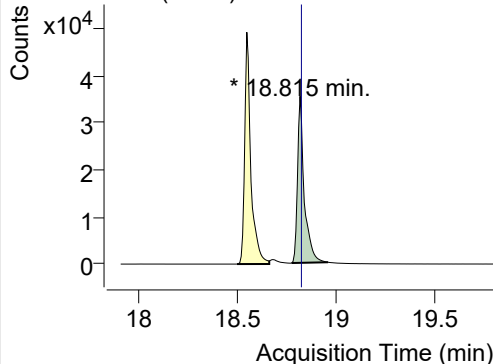
252.0, 253.0, 126.0



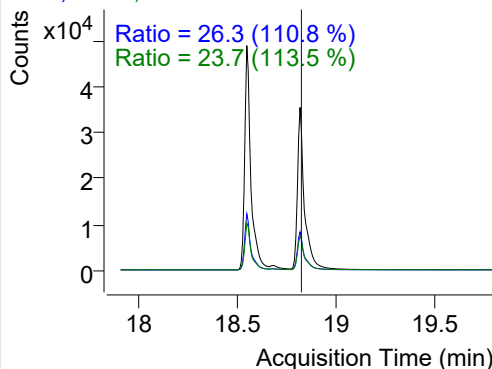
+ SIM (18.644-18.779 min, 20 scans) (**) 2301

**IS-D12-Perylene**

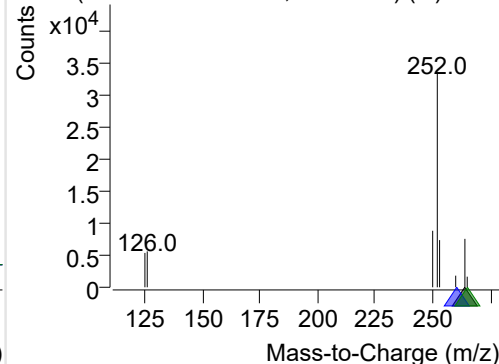
+ Selected Ion (264.0) 230112-PAHs-010.D



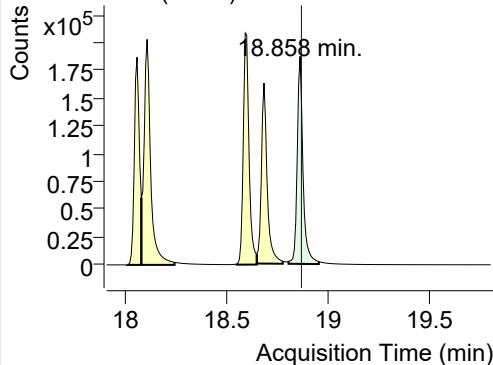
264.0, 260.0, 265.0



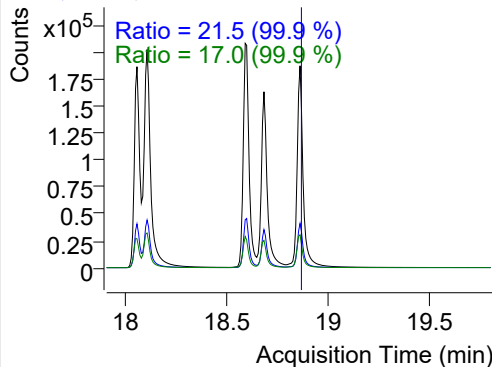
+ SIM (18.772-18.957 min, 27 scans) (**) 2301

**Perylene**

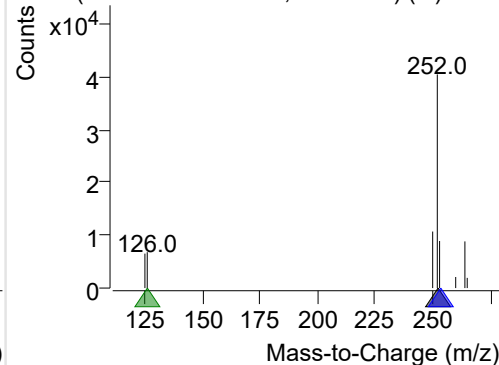
+ Selected Ion (252.0) 230112-PAHs-010.D



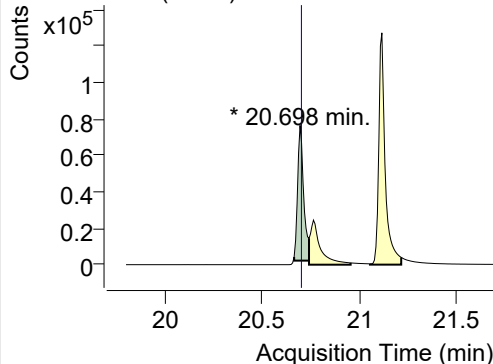
252.0, 253.0, 126.0



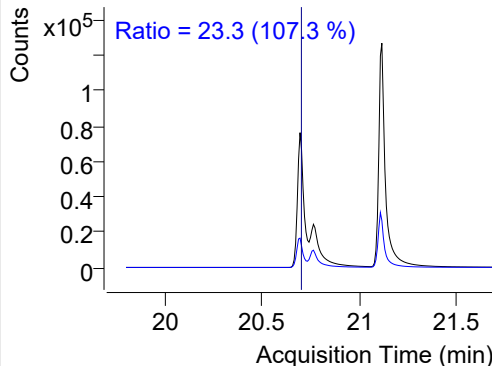
+ SIM (18.801-18.950 min, 22 scans) (**) 2301

**Indeno(1,2,3-c,d)pyrene**

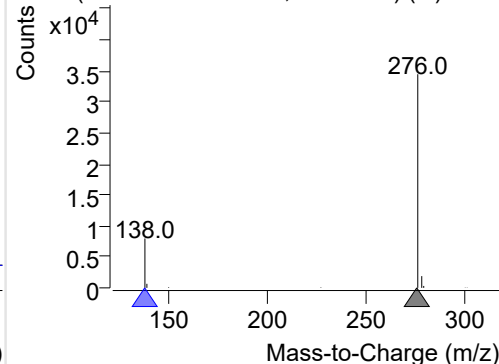
+ Selected Ion (276.0) 230112-PAHs-010.D



276.0, 138.0

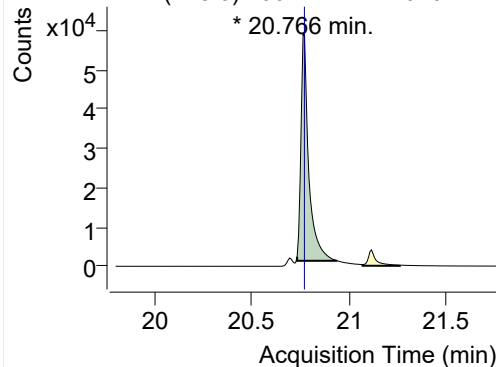


+ SIM (20.667-20.743 min, 11 scans) (**) 2301

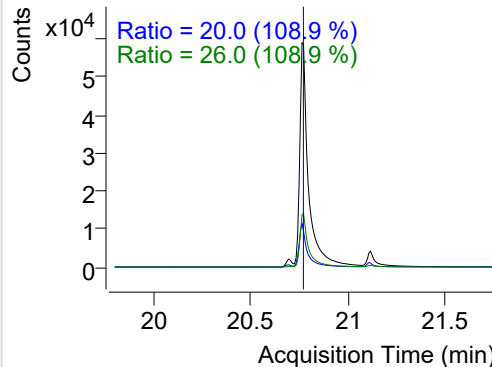


Dibenz(a,h)anthracene

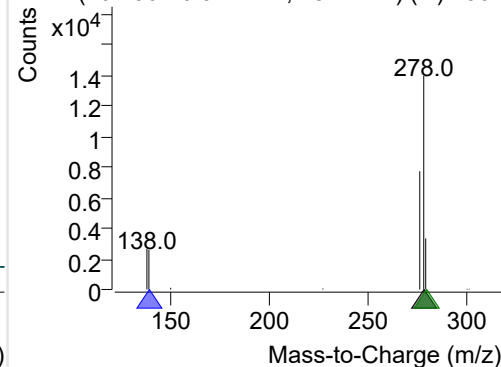
+ Selected Ion (278.0) 230112-PAHs-010.D



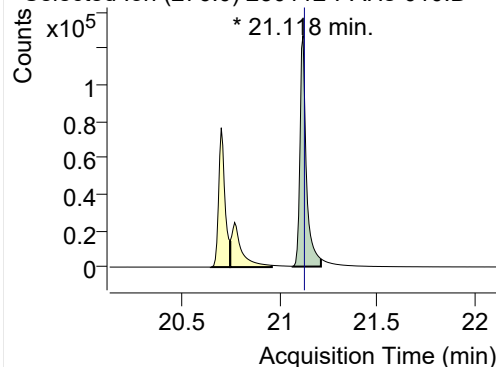
278.0, 139.0, 279.0



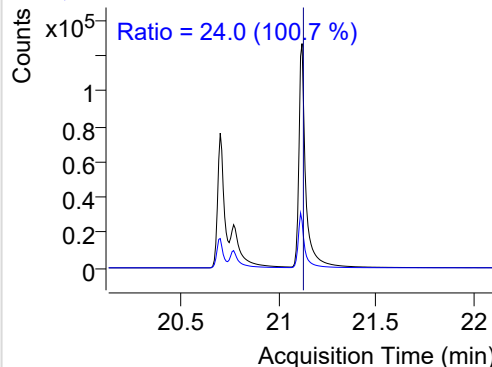
+ SIM (20.736-20.942 min, 28 scans) (**) 2301

**Benzo(g,h,i)perylene**

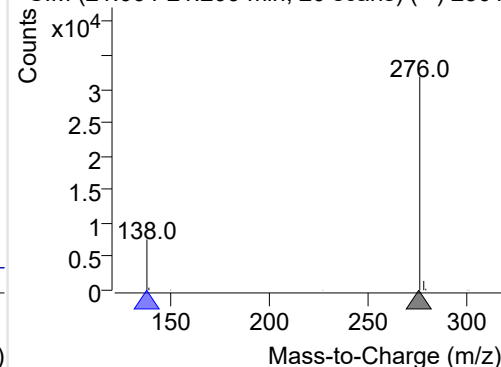
+ Selected Ion (276.0) 230112-PAHs-010.D



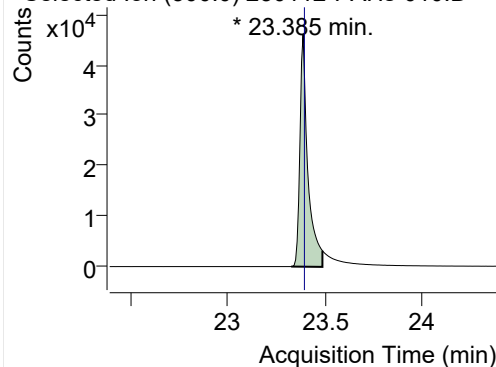
276.0, 138.0



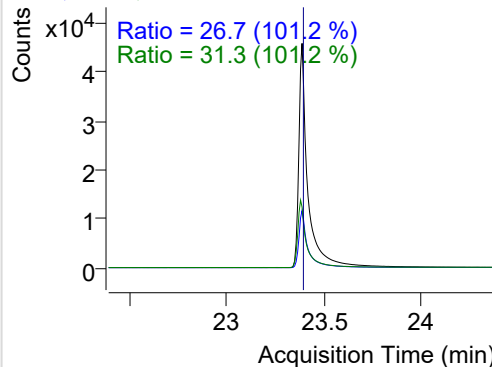
+ SIM (21.064-21.209 min, 20 scans) (**) 2301

**Coronene**

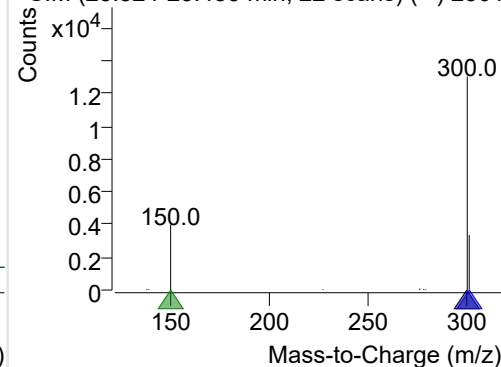
+ Selected Ion (300.0) 230112-PAHs-010.D



300.0, 301.0, 150.0



+ SIM (23.324-23.485 min, 22 scans) (**) 2301



Quantitative Analysis Sample Based Report

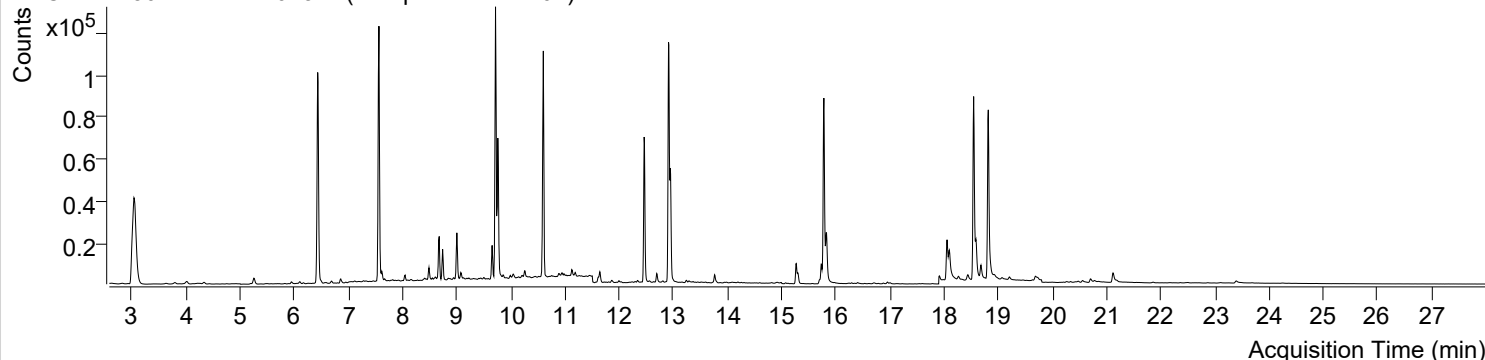


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 5:58:10	Data File	230112-PAHs-013.D
Type	Sample	Name	Sample-PM-221201
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

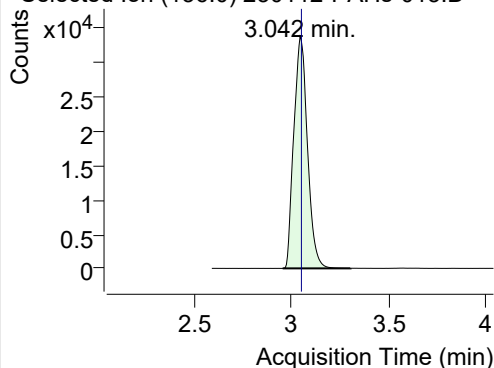
+ TIC SIM 230112-PAHs-013.D (Sample-PM-221201)



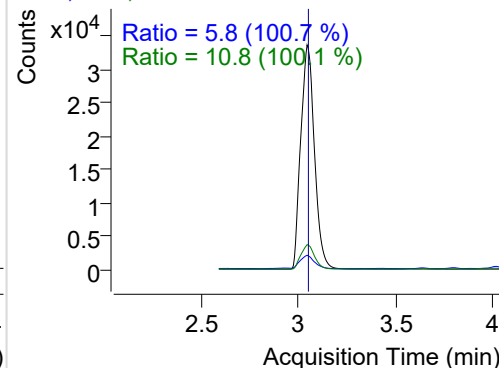
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	164694	33718.84	ND ng/ml	10.8
Naphthalene	3.074	128.0	9645	1979.52	ND ng/ml	11.4
Acenaphthylene	6.102	152.0	1606	743.96	ND ng/ml	16.2
IS-D10-Acenaphthene	6.433	164.0	94701	48353.84	ND ng/ml	93.7
Acenaphthene	6.493	154.0	502	234.98	ND ng/ml	107.0
LSS-D10-Fluorene	7.564	176.0	96818	56337.00	ND ng/ml	90.9
Fluorene	7.617	166.0	3360	1789.13	ND ng/ml	102.2
IS-D10-Phenanthrene	9.717	188.0	167799	103691.9	ND ng/ml	15.1
Phenanthrene	9.759	178.0	70716	42171.50	ND ng/ml	18.6
Anthracene	9.864	178.0	1048	654.60	ND ng/ml	
Fluoranthene	12.461	202.0	88139	53177.22	ND ng/ml	17.2
LSS-D10-Pyrene	12.911	212.0	142700	84056.77	ND ng/ml	17.8
Pyrene	12.944	202.0	65029	37360.88	ND ng/ml	18.6
Benz(a)anthracene	15.730	228.0	13228	6369.57	ND ng/ml	29.0
IS-D12-Chrysene	15.779	240.0	120533	65928.66	ND ng/ml	18.9
Chrysene	15.827	228.0	33498	14499.97	ND ng/ml	27.6
Benzo(b)fluoranthene	18.053	252.0	21359	11151.29	ND ng/ml	21.6
Benzo(k)fluoranthene	18.096	252.0	24335	8011.08	ND ng/ml	22.3
SS-D12-Benzo(e)pyrene	18.544	264.0	119873	59468.09	ND ng/ml	23.8
Benzo(e)pyrene	18.587	252.0	16638	7733.93	ND ng/ml	21.9
Benzo(a)pyrene	18.680	252.0	9537	3558.49	ND ng/ml	21.2
IS-D12-Perylene	18.815	264.0	104619	54326.37	ND ng/ml	25.6
Perylene	18.858	252.0	1756	775.25	ND ng/ml	24.2
Indeno(1,2,3-c,d)pyrene	20.705	276.0	4627	1321.55	ND ng/ml	20.9
Dibenz(a,h)anthracene	20.782	278.0	1427	347.32	ND ng/ml	20.1
Benzo(g,h,i)perylene	21.118	276.0	11620	3460.26	ND ng/ml	23.8
Coronene	23.393	300.0	3225	625.83	ND ng/ml	29.6

IS-D8-Naphthalene

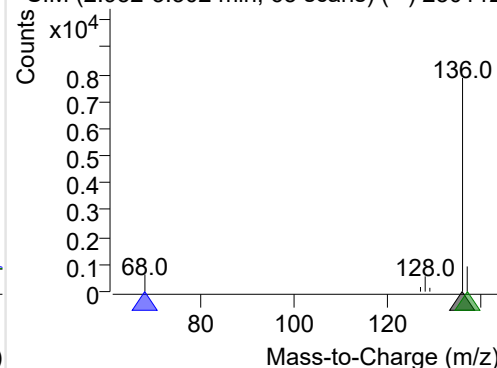
+ Selected Ion (136.0) 230112-PAHs-013.D



136.0, 68.0, 137.0

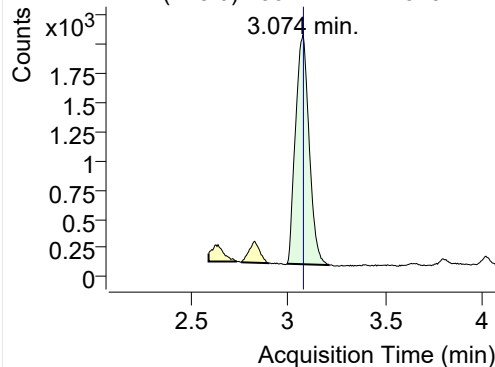


+ SIM (2.952-3.302 min, 65 scans) (**) 230112

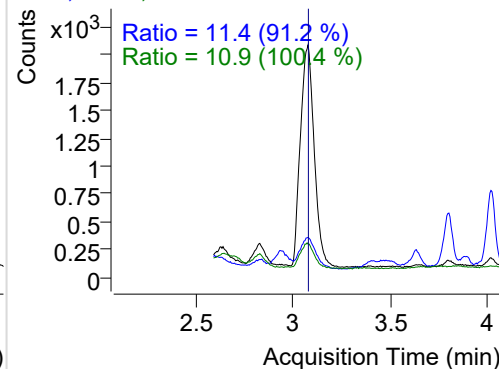


Naphthalene

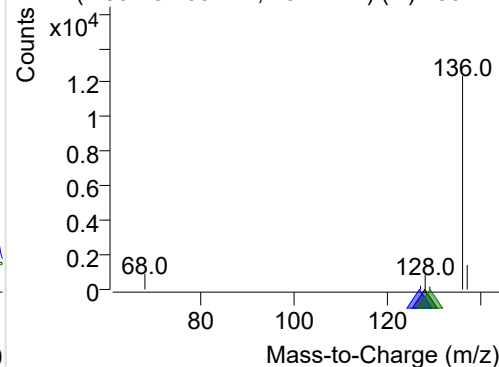
+ Selected Ion (128.0) 230112-PAHs-013.D



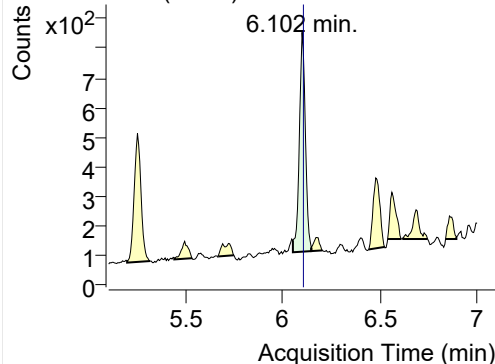
128.0, 127.0, 129.0



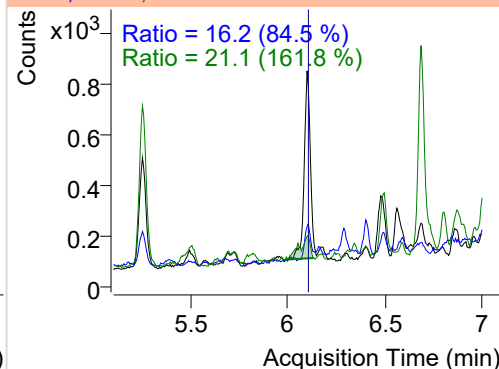
+ SIM (2.991-3.209 min, 40 scans) (**) 230112

**Acenaphthylene**

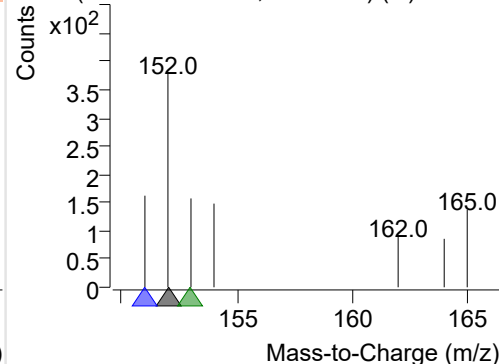
+ Selected Ion (152.0) 230112-PAHs-013.D



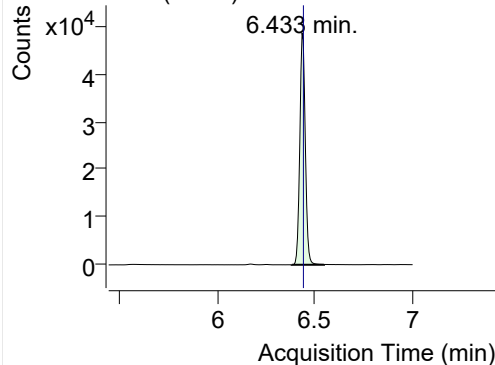
152.0, 151.0, 153.0



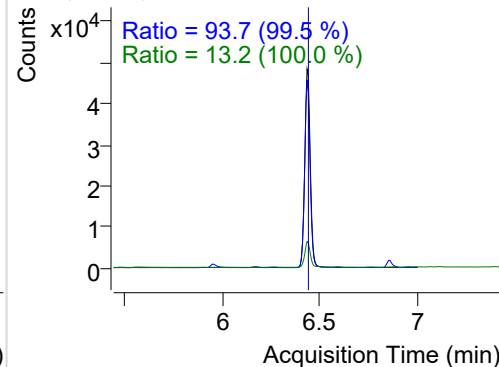
+ SIM (6.055-6.149 min, 17 scans) (**) 230112

**IS-D10-Acenaphthene**

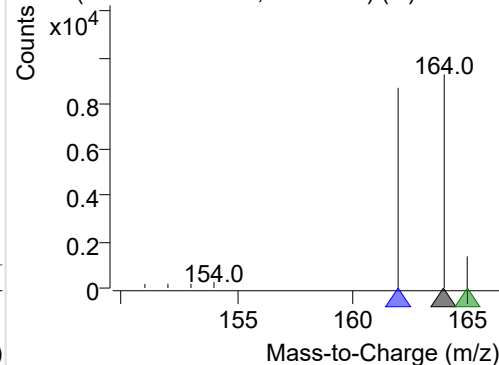
+ Selected Ion (164.0) 230112-PAHs-013.D



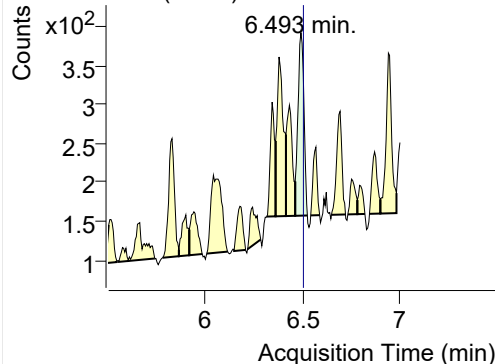
164.0, 162.0, 165.0



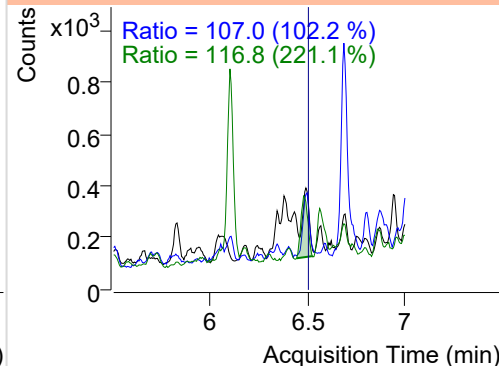
+ SIM (6.380-6.546 min, 29 scans) (**) 230112

**Acenaphthene**

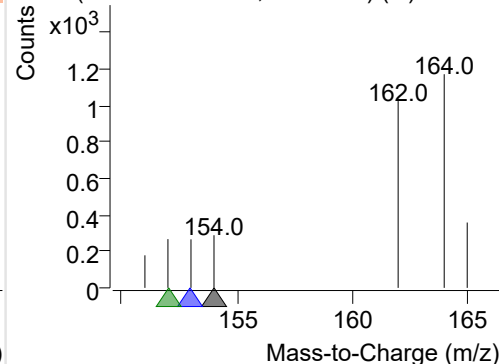
+ Selected Ion (154.0) 230112-PAHs-013.D



154.0, 153.0, 152.0

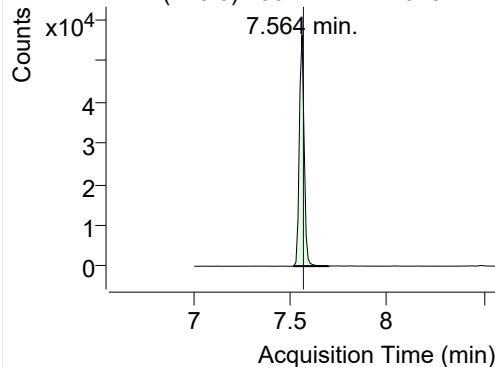


+ SIM (6.463-6.526 min, 11 scans) (**) 230112

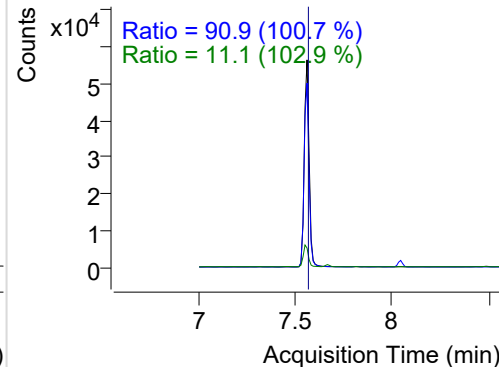


LSS-D10-Fluorene

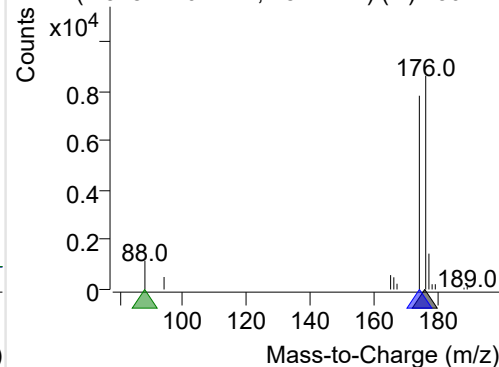
+ Selected Ion (176.0) 230112-PAHs-013.D



176.0, 174.0, 88.0

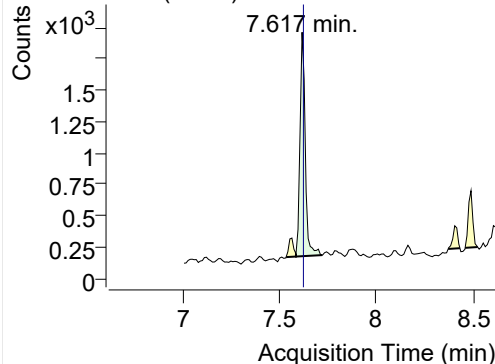


+ SIM (7.518-7.701 min, 18 scans) (**) 230112

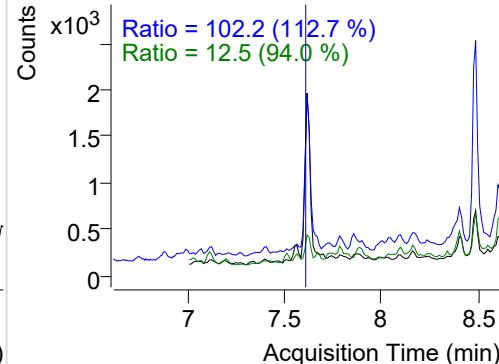


Fluorene

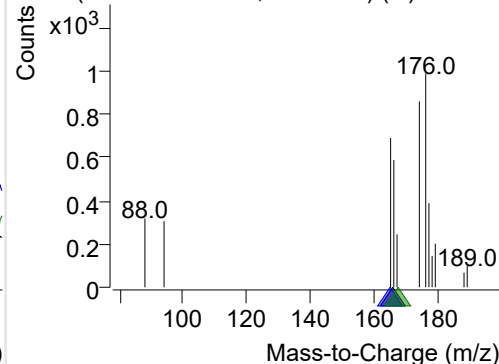
+ Selected Ion (166.0) 230112-PAHs-013.D



166.0, 165.0, 167.0

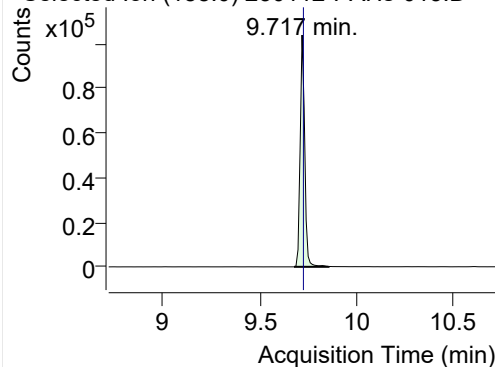


+ SIM (7.585-7.720 min, 13 scans) (**) 230112

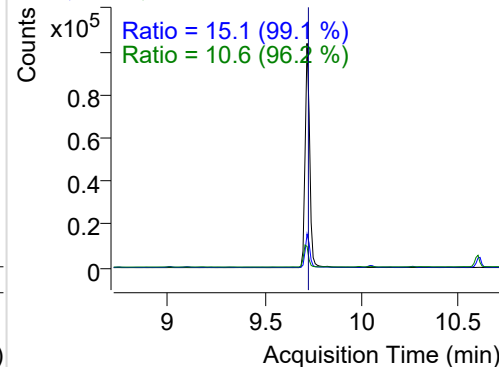


IS-D10-Phenanthrene

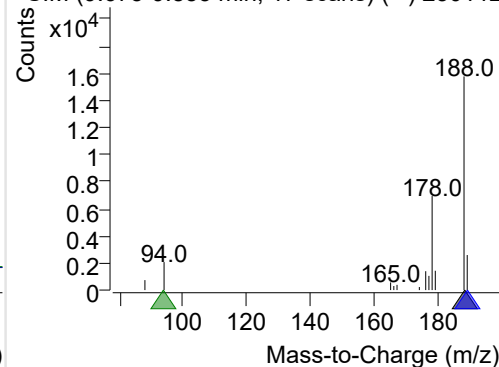
+ Selected Ion (188.0) 230112-PAHs-013.D



188.0, 189.0, 94.0

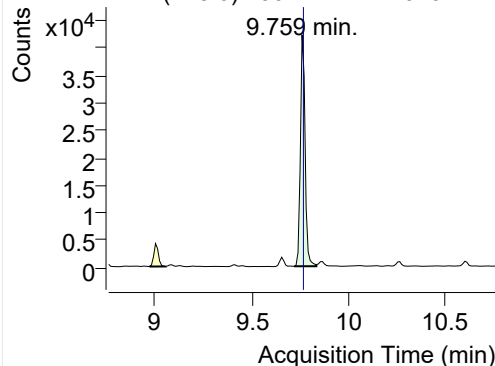


+ SIM (9.675-9.853 min, 17 scans) (**) 230112

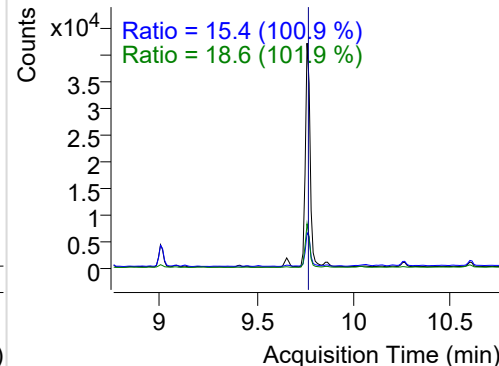


Phenanthrene

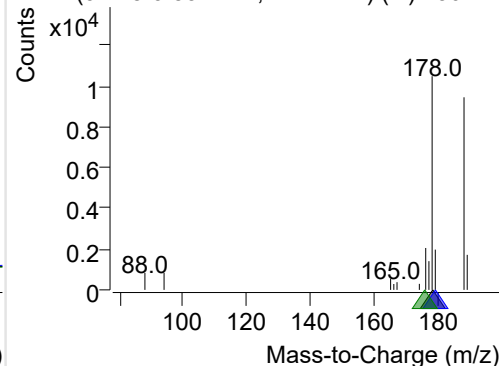
+ Selected Ion (178.0) 230112-PAHs-013.D



178.0, 179.0, 176.0

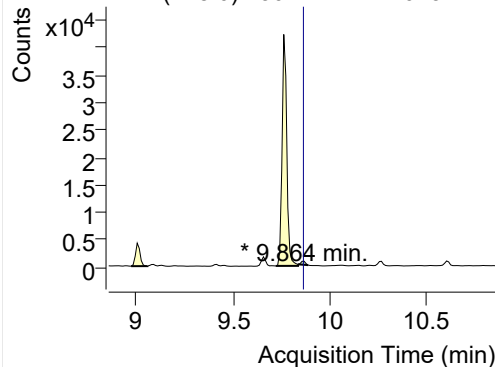


+ SIM (9.718-9.832 min, 11 scans) (**) 230112

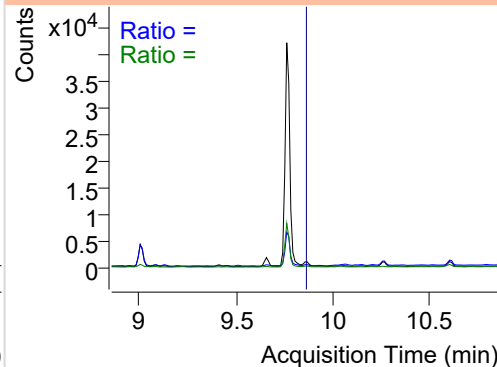


Anthracene

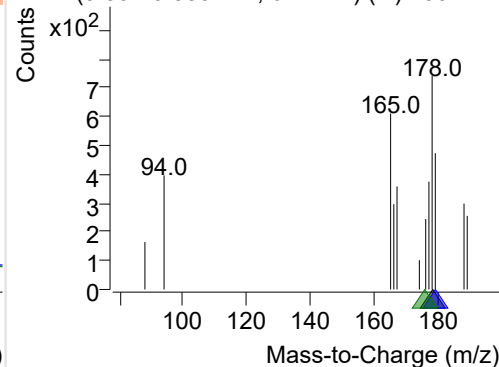
+ Selected Ion (178.0) 230112-PAHs-013.D



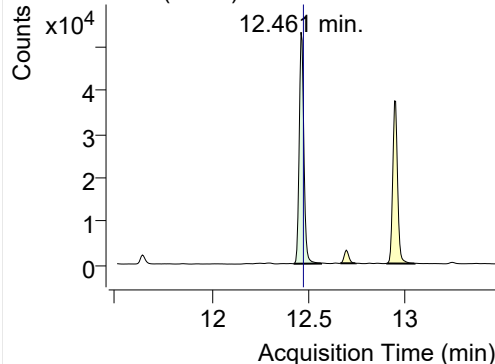
178.0, 179.0, 176.0



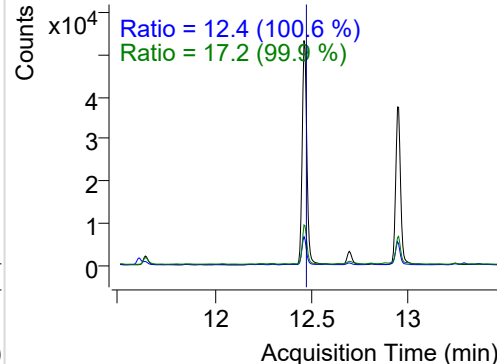
+ SIM (9.832-9.885 min, 6 scans) (**) 230112-I

**Fluoranthene**

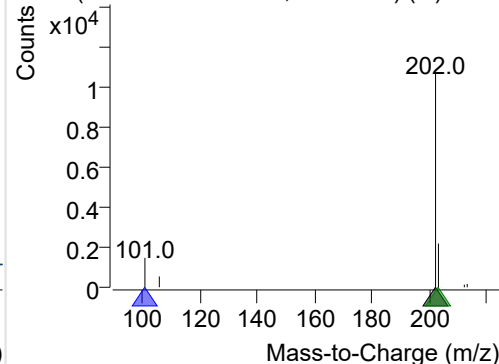
+ Selected Ion (202.0) 230112-PAHs-013.D



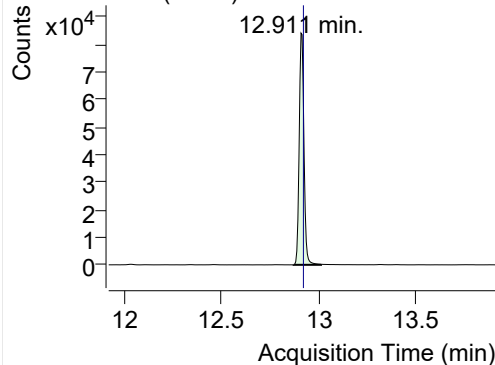
202.0, 101.0, 203.0



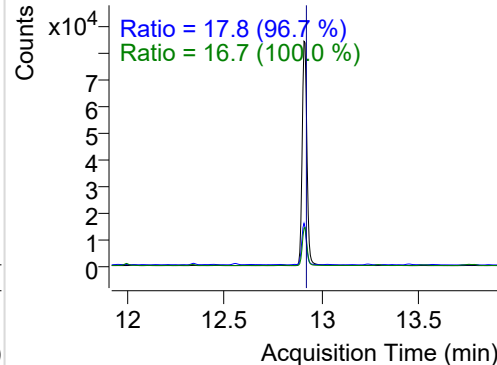
+ SIM (12.423-12.564 min, 26 scans) (**) 2301

**LSS-D10-Pyrene**

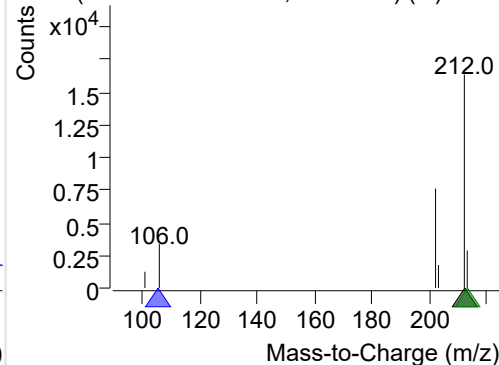
+ Selected Ion (212.0) 230112-PAHs-013.D



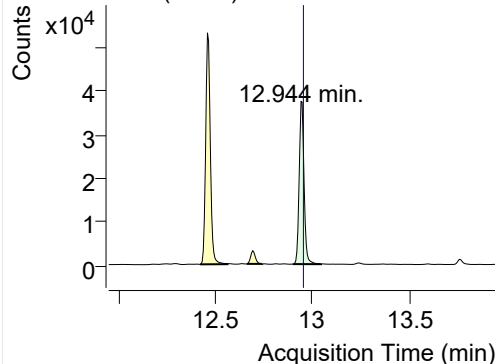
212.0, 106.0, 213.0



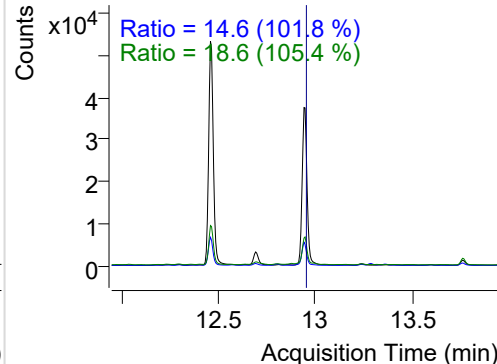
+ SIM (12.873-13.014 min, 27 scans) (**) 2301

**Pyrene**

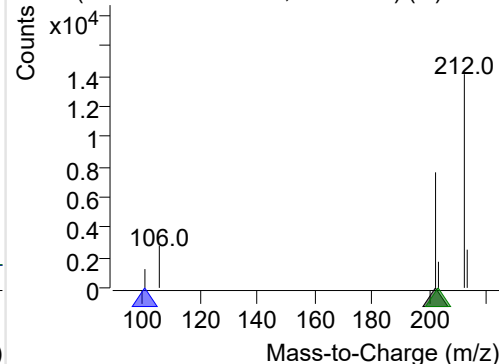
+ Selected Ion (202.0) 230112-PAHs-013.D



202.0, 101.0, 203.0

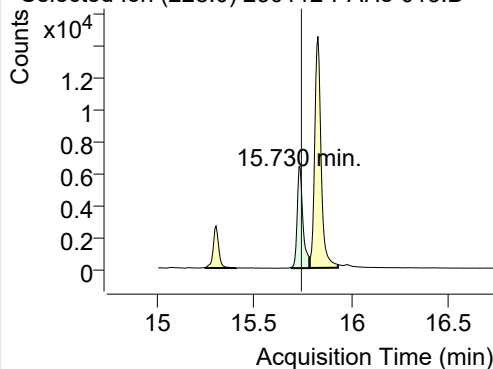


+ SIM (12.906-13.047 min, 27 scans) (**) 2301

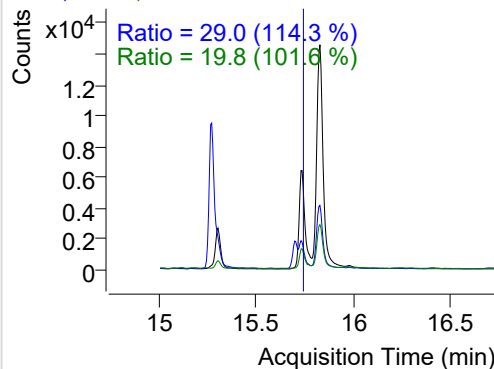


Benz(a)anthracene

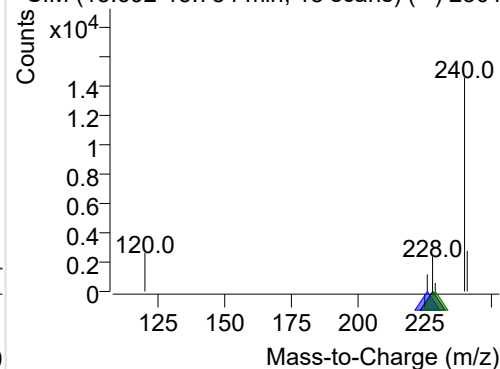
+ Selected Ion (228.0) 230112-PAHs-013.D



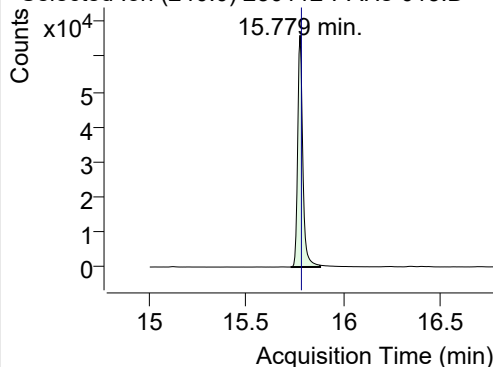
228.0, 226.0, 229.0



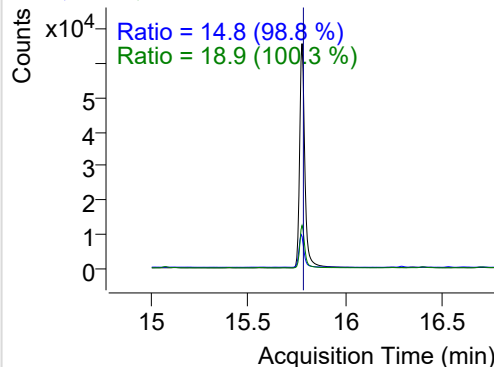
+ SIM (15.692-15.784 min, 18 scans) (**) 2301

**IS-D12-Chrysene**

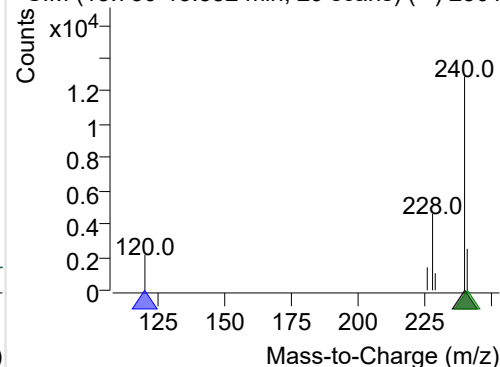
+ Selected Ion (240.0) 230112-PAHs-013.D



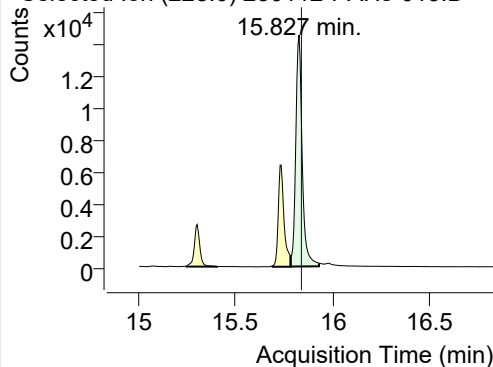
240.0, 120.0, 241.0



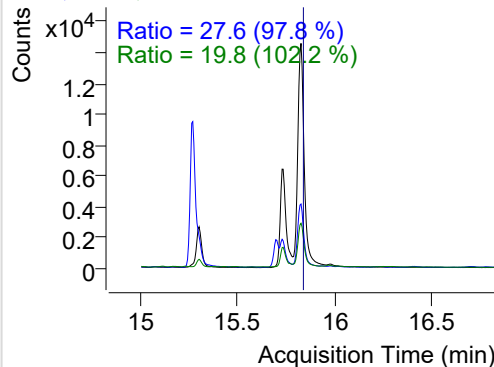
+ SIM (15.730-15.882 min, 29 scans) (**) 2301

**Chrysene**

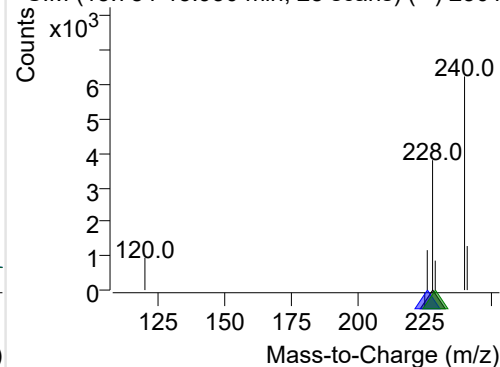
+ Selected Ion (228.0) 230112-PAHs-013.D



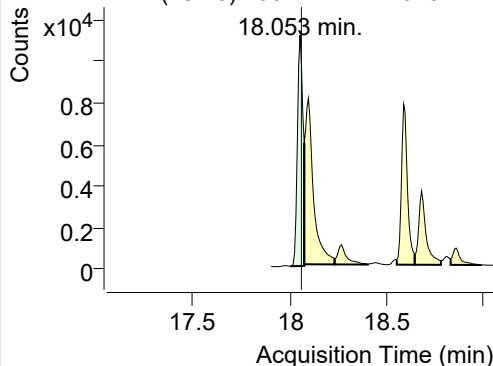
228.0, 226.0, 229.0



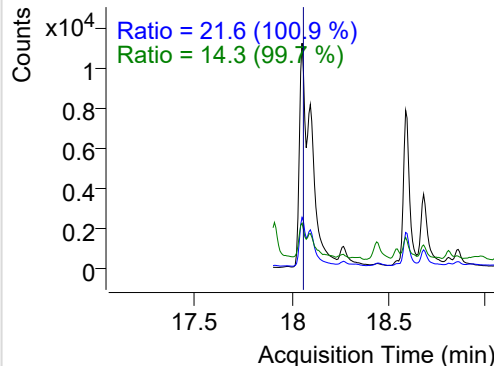
+ SIM (15.784-15.930 min, 28 scans) (**) 2301

**Benzo(b)fluoranthene**

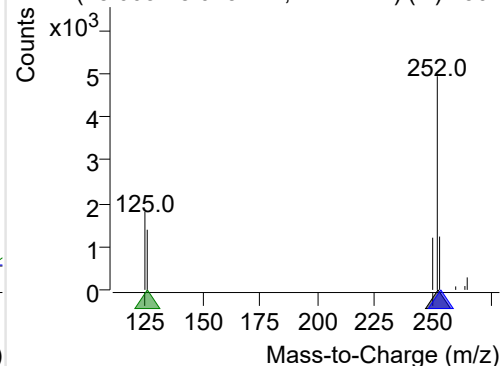
+ Selected Ion (252.0) 230112-PAHs-013.D



252.0, 253.0, 126.0

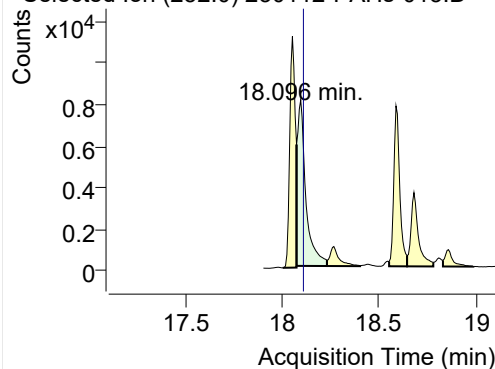


+ SIM (18.003-18.075 min, 11 scans) (**) 2301

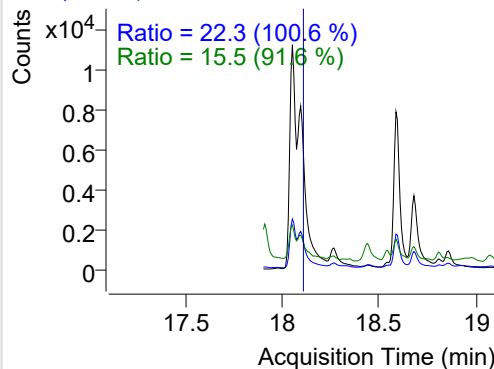


Benzo(k)fluoranthene

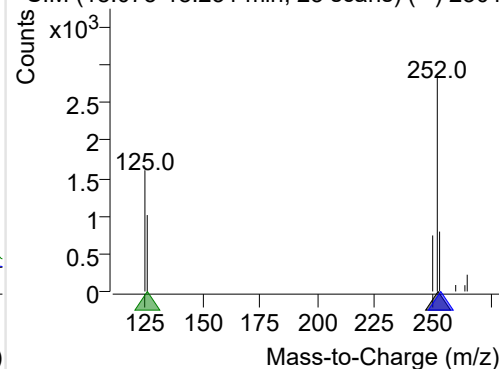
+ Selected Ion (252.0) 230112-PAHs-013.D



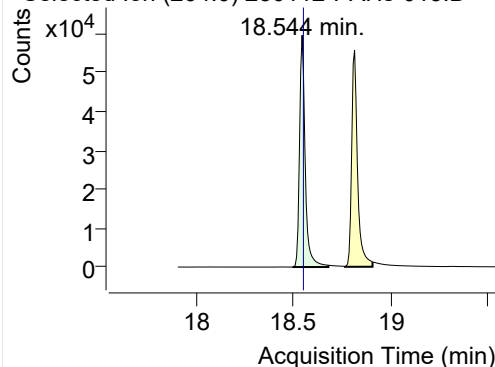
252.0, 253.0, 126.0



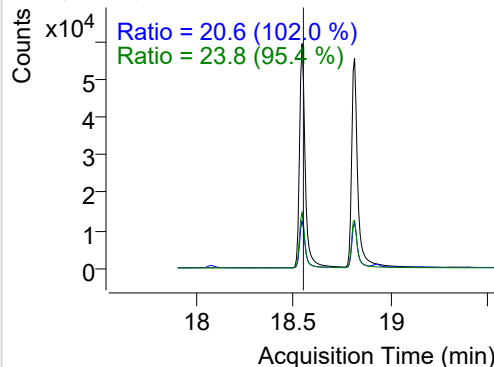
+ SIM (18.075-18.231 min, 23 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

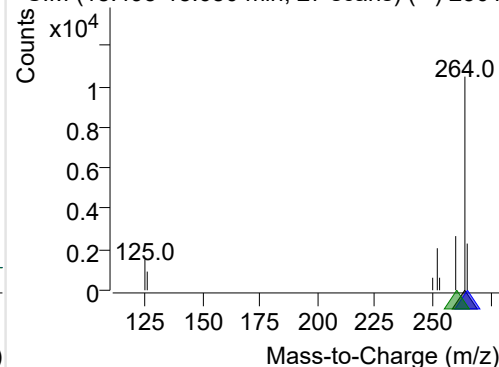
+ Selected Ion (264.0) 230112-PAHs-013.D



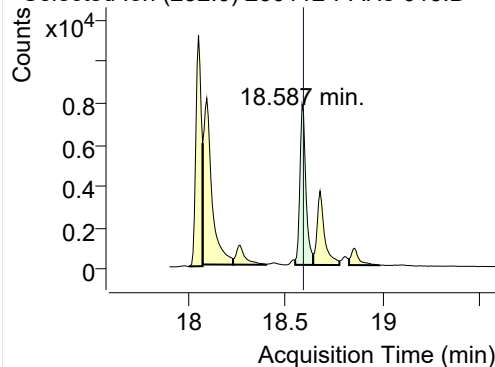
264.0, 265.0, 260.0



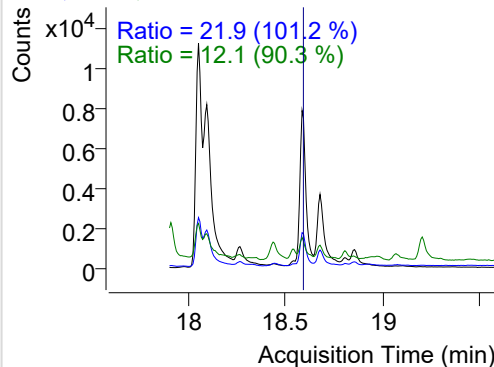
+ SIM (18.495-18.680 min, 27 scans) (**) 2301

**Benzo(e)pyrene**

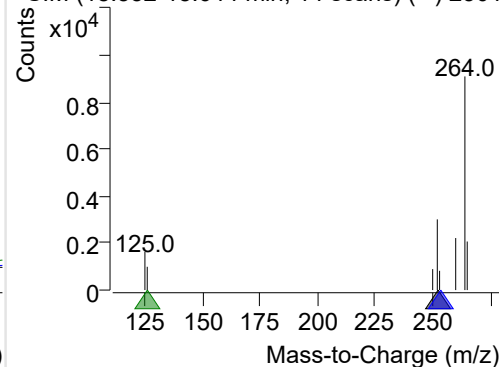
+ Selected Ion (252.0) 230112-PAHs-013.D



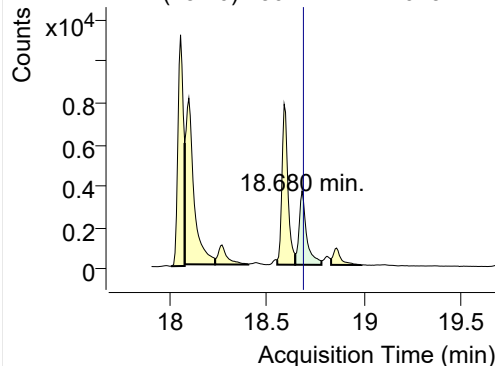
252.0, 253.0, 126.0



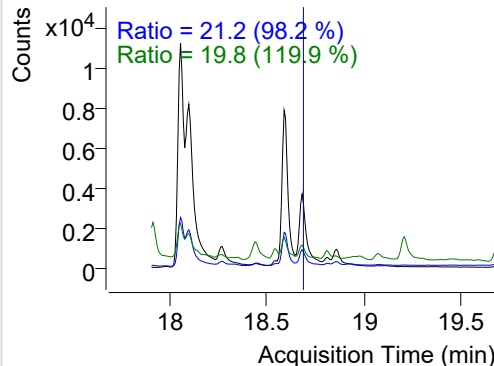
+ SIM (18.552-18.644 min, 14 scans) (**) 2301

**Benzo(a)pyrene**

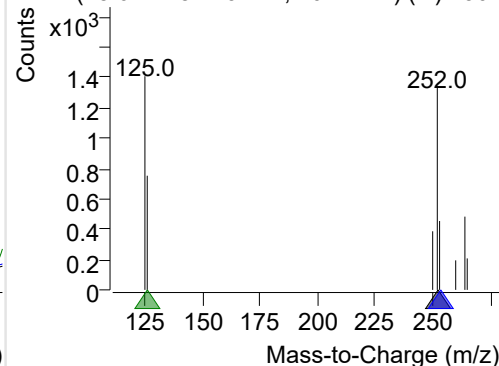
+ Selected Ion (252.0) 230112-PAHs-013.D



252.0, 253.0, 126.0

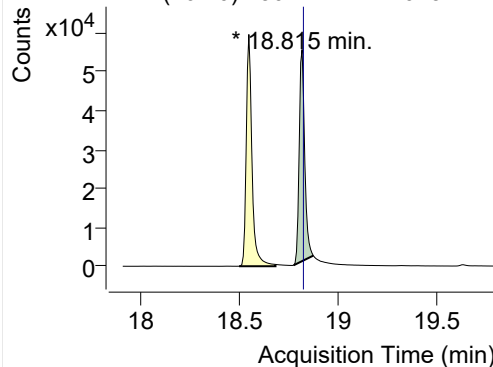


+ SIM (18.644-18.779 min, 20 scans) (**) 2301

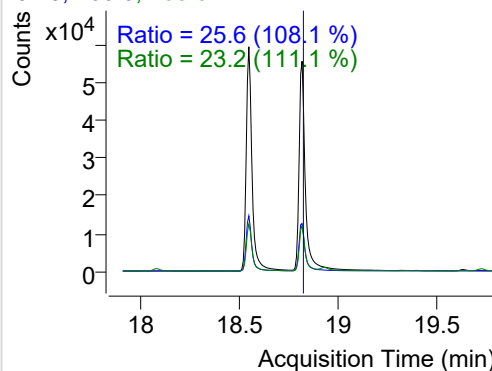


IS-D12-Perylene

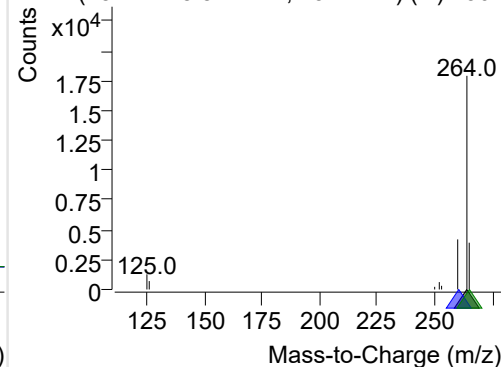
+ Selected Ion (264.0) 230112-PAHs-013.D



264.0, 260.0, 265.0

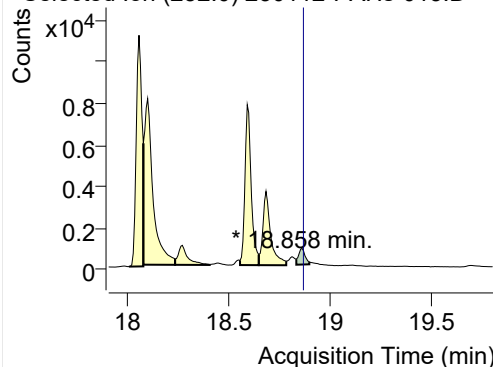


+ SIM (18.772-18.872 min, 15 scans) (**) 2301

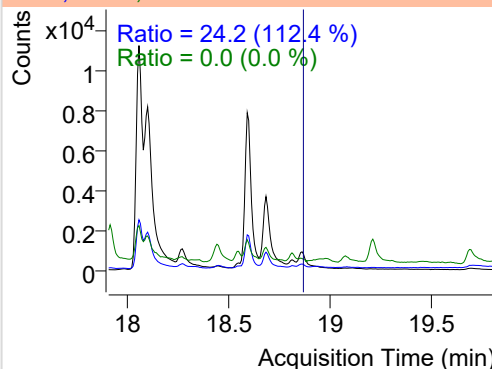


Perylene

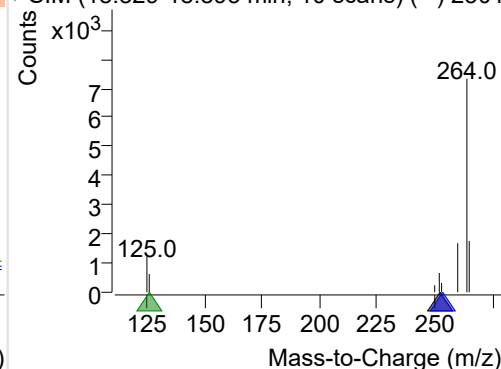
+ Selected Ion (252.0) 230112-PAHs-013.D



252.0, 253.0, 126.0

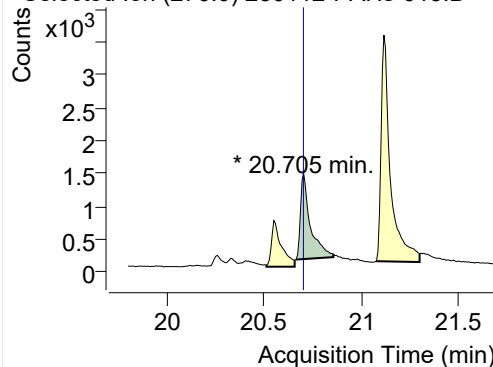


+ SIM (18.829-18.893 min, 10 scans) (**) 2301

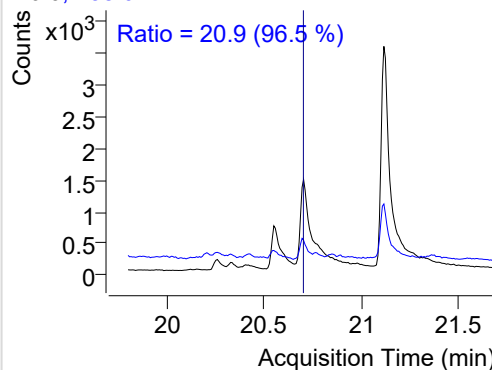


Indeno(1,2,3-c,d)pyrene

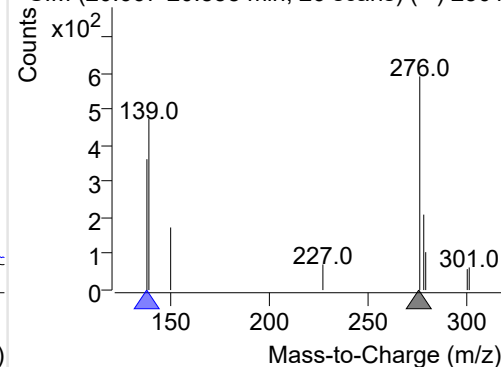
+ Selected Ion (276.0) 230112-PAHs-013.D



276.0, 138.0

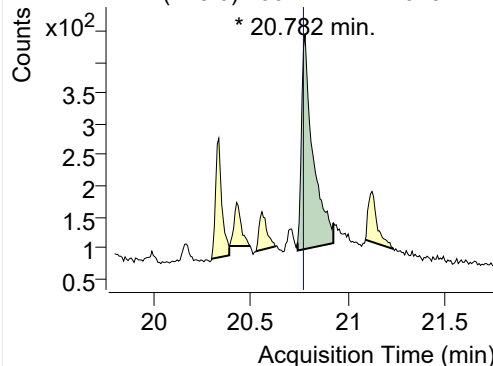


+ SIM (20.667-20.858 min, 26 scans) (**) 2301

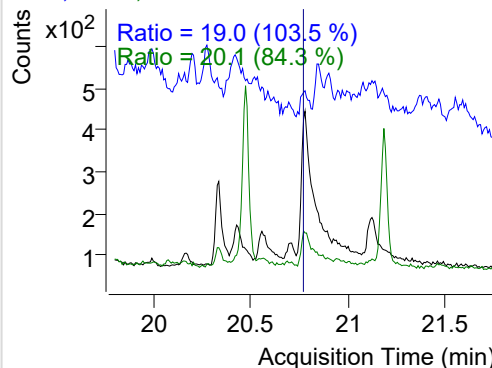


Dibenz(a,h)anthracene

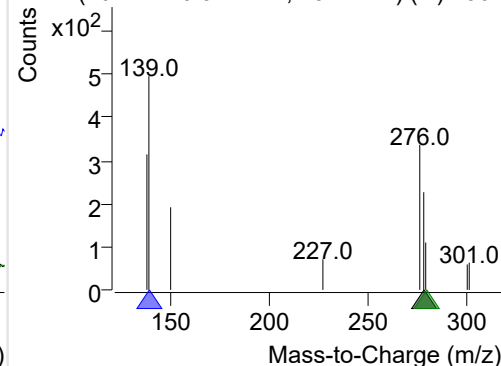
+ Selected Ion (278.0) 230112-PAHs-013.D



278.0, 139.0, 279.0

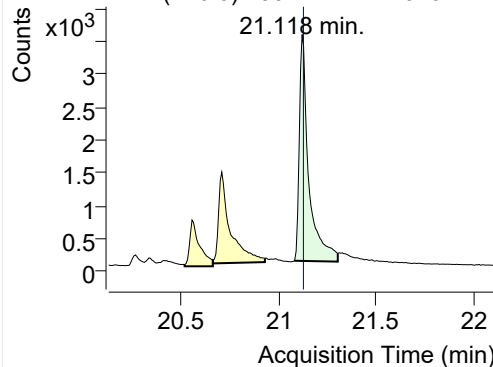


+ SIM (20.744-20.927 min, 25 scans) (**) 2301

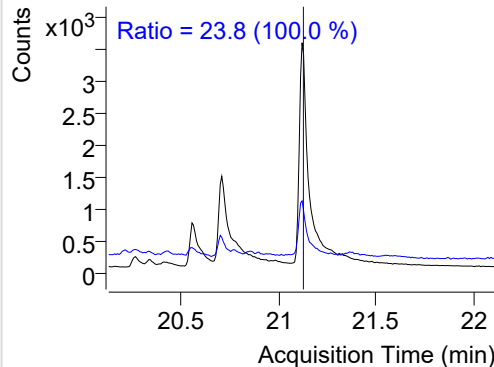


Benzo(g,h,i)perylene

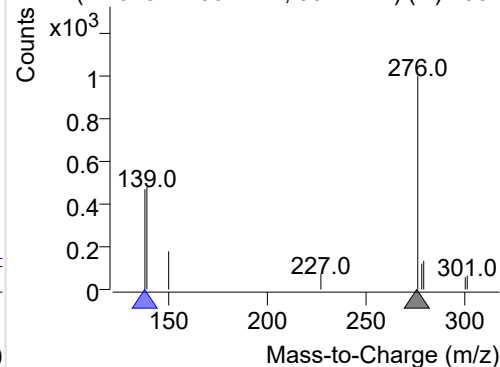
+ Selected Ion (276.0) 230112-PAHs-013.D



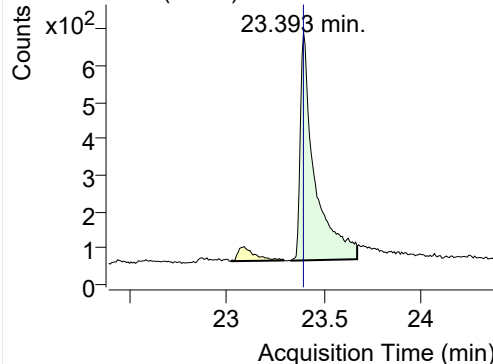
276.0, 138.0



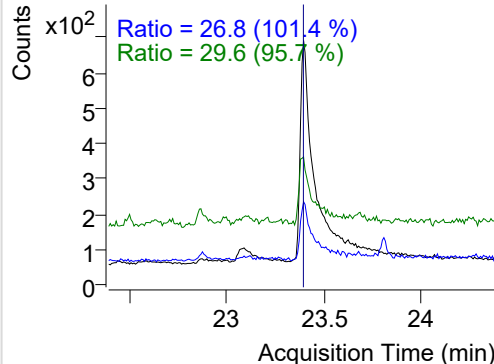
+ SIM (21.078-21.301 min, 30 scans) (**) 2301

**Coronene**

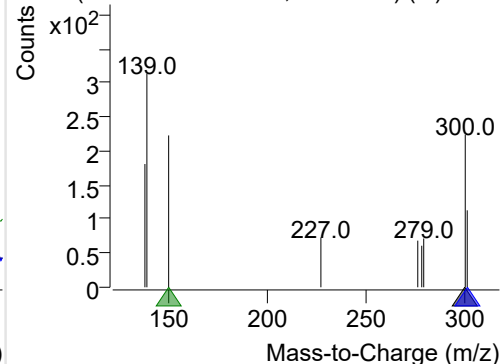
+ Selected Ion (300.0) 230112-PAHs-013.D



300.0, 301.0, 150.0



+ SIM (23.326-23.668 min, 45 scans) (**) 2301



Quantitative Analysis Sample Based Report

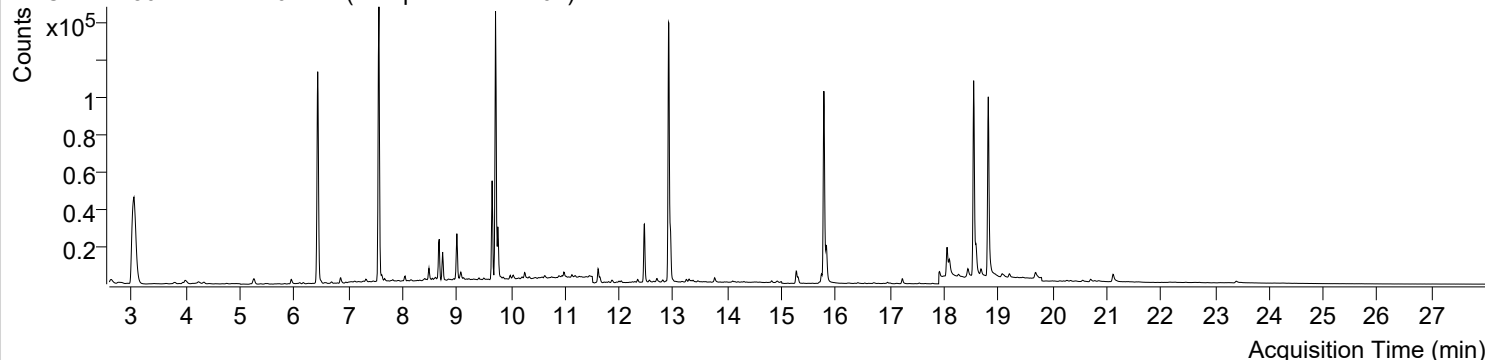


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 6:29:19	Data File	230112-PAHs-014.D
Type	Sample	Name	Sample-PM-221207
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

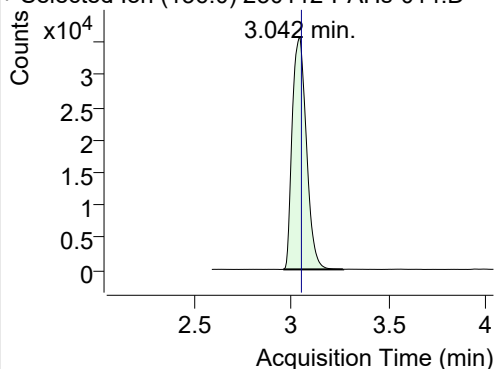
+ TIC SIM 230112-PAHs-014.D (Sample-PM-221207)



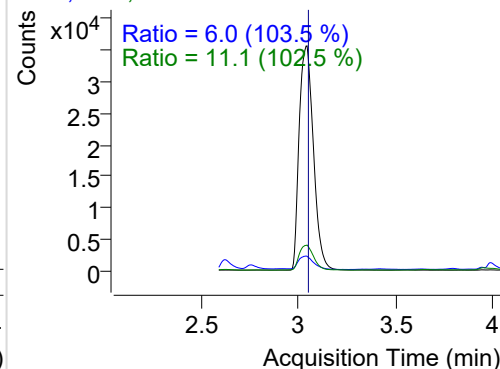
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	180990	35628.86	ND ng/ml	11.1
Naphthalene	3.063	128.0	20263	4027.32	ND ng/ml	14.5
Acenaphthylene	6.102	152.0	1151	453.44	ND ng/ml	10.7
IS-D10-Acenaphthene	6.433	164.0	106886	54548.69	ND ng/ml	93.5
Acenaphthene	6.493	154.0	616	286.40	ND ng/ml	94.5
LSS-D10-Fluorene	7.564	176.0	117552	67403.44	ND ng/ml	90.9
Fluorene	7.617	166.0	2230	1128.02	ND ng/ml	98.8
IS-D10-Phenanthrene	9.717	188.0	184702	113391.2	ND ng/ml	15.2
Phenanthrene	9.759	178.0	27791	16526.91	ND ng/ml	18.6
Anthracene	9.864	178.0	717	432.00	ND ng/ml	
Fluoranthene	12.467	202.0	40069	23794.16	ND ng/ml	18.4
LSS-D10-Pyrene	12.916	212.0	171564	102079.5	ND ng/ml	18.1
Pyrene	12.949	202.0	30792	17867.67	ND ng/ml	16.2
Benz(a)anthracene	15.735	228.0	6668	3427.00	ND ng/ml	25.7
IS-D12-Chrysene	15.779	240.0	141813	76260.16	ND ng/ml	18.6
Chrysene	15.827	228.0	25059	11355.19	ND ng/ml	26.4
Benzo(b)fluoranthene	18.053	252.0	18674	9197.53	ND ng/ml	21.4
Benzo(k)fluoranthene	18.096	252.0	14928	5438.04	ND ng/ml	22.7
SS-D12-Benzo(e)pyrene	18.544	264.0	135245	70620.15	ND ng/ml	24.0
Benzo(e)pyrene	18.587	252.0	14454	6835.53	ND ng/ml	22.3
Benzo(a)pyrene	18.680	252.0	4559	1727.53	ND ng/ml	21.4
IS-D12-Perylene	18.815	264.0	120290	64464.37	ND ng/ml	25.3
Perylene	18.858	252.0	1134	395.93	ND ng/ml	20.0
Indeno(1,2,3-c,d)pyrene	20.705	276.0	3118	1011.35	ND ng/ml	20.7
Dibenz(a,h)anthracene	20.789	278.0	1113	223.06	ND ng/ml	22.5
Benzo(g,h,i)perylene	21.118	276.0	9977	3064.24	ND ng/ml	22.0
Coronene	23.393	300.0	2431	554.27	ND ng/ml	26.5

IS-D8-Naphthalene

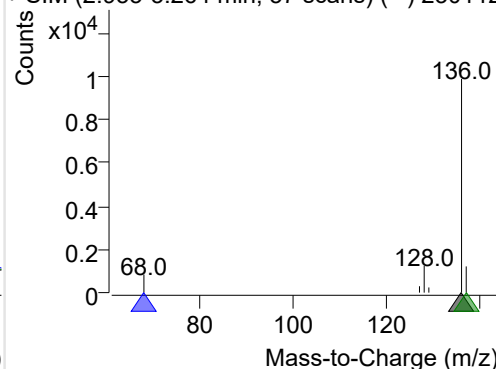
+ Selected Ion (136.0) 230112-PAHs-014.D



136.0, 68.0, 137.0

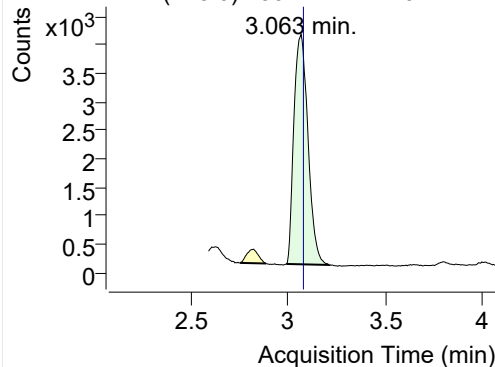


+ SIM (2.955-3.264 min, 57 scans) (**) 230112

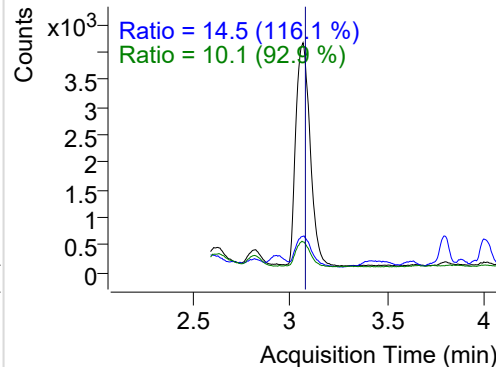


Naphthalene

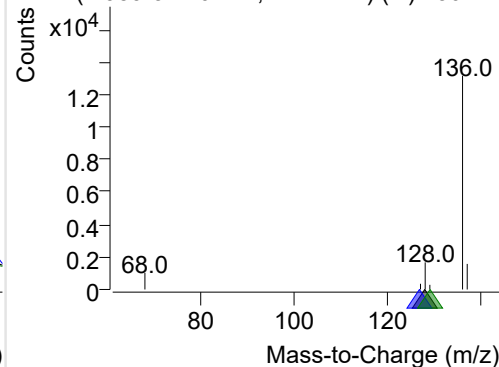
+ Selected Ion (128.0) 230112-PAHs-014.D



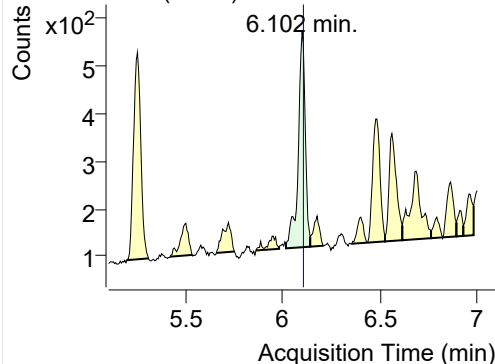
128.0, 127.0, 129.0



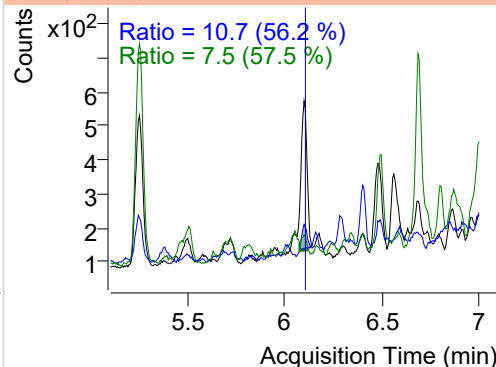
+ SIM (2.989-3.210 min, 41 scans) (**) 230112

**Acenaphthylene**

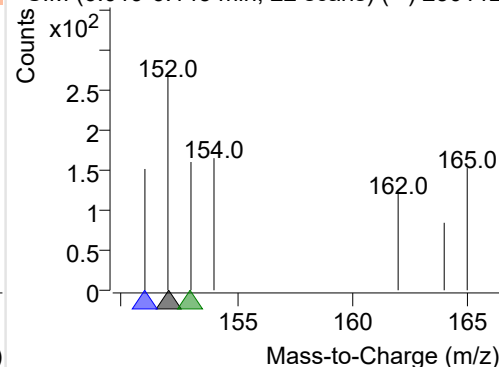
+ Selected Ion (152.0) 230112-PAHs-014.D



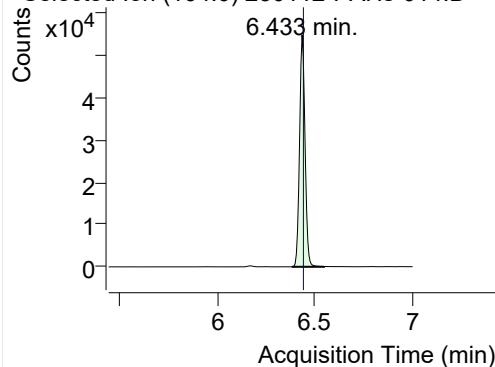
152.0, 151.0, 153.0



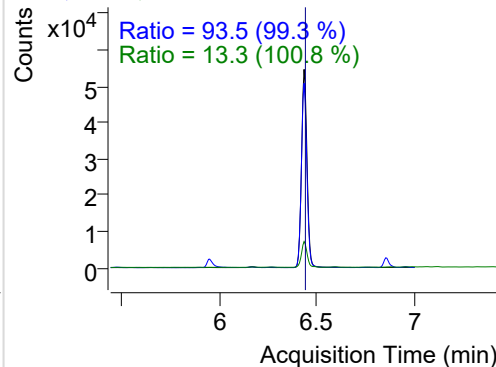
+ SIM (6.019-6.143 min, 22 scans) (**) 230112

**IS-D10-Acenaphthene**

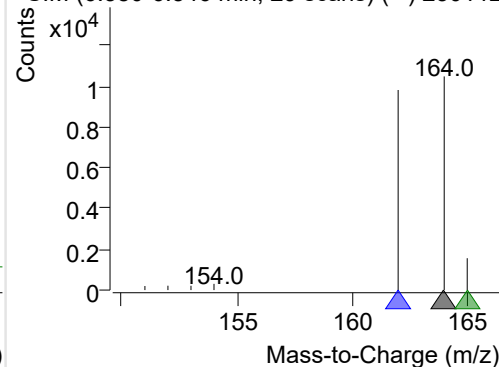
+ Selected Ion (164.0) 230112-PAHs-014.D



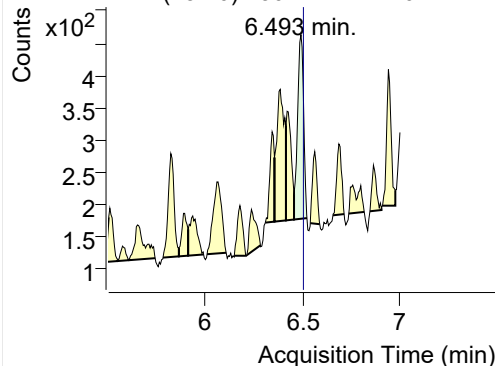
164.0, 162.0, 165.0



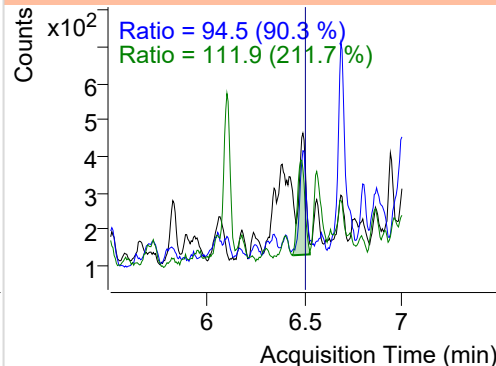
+ SIM (6.380-6.546 min, 29 scans) (**) 230112

**Acenaphthene**

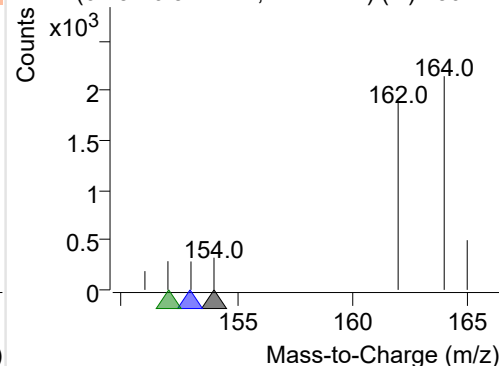
+ Selected Ion (154.0) 230112-PAHs-014.D



154.0, 153.0, 152.0

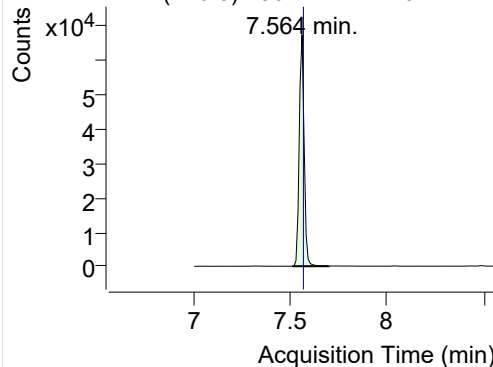


+ SIM (6.457-6.524 min, 12 scans) (**) 230112

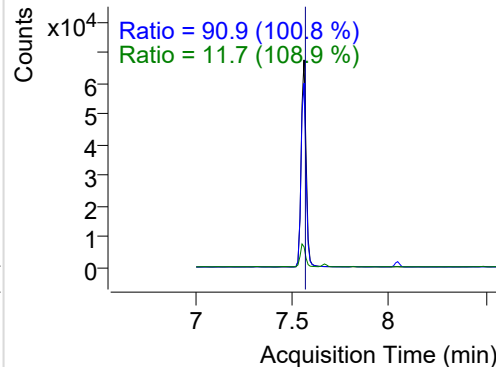


LSS-D10-Fluorene

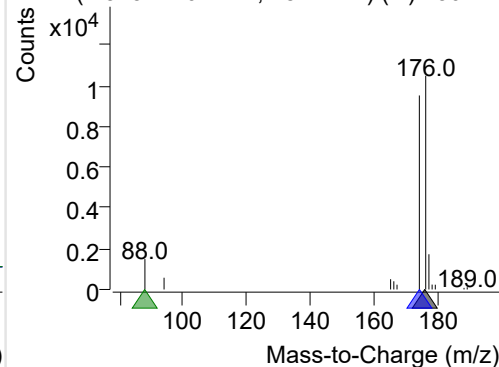
+ Selected Ion (176.0) 230112-PAHs-014.D



176.0, 174.0, 88.0

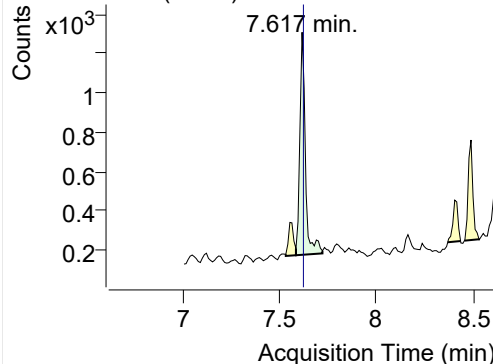


+ SIM (7.513-7.701 min, 18 scans) (**) 230112

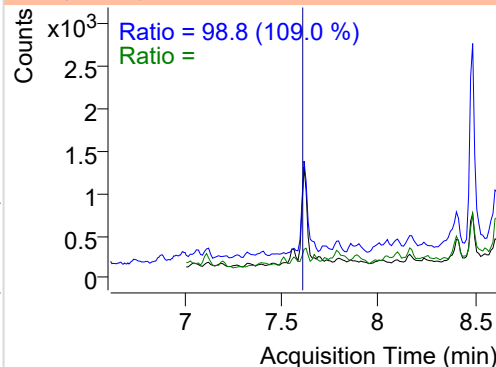


Fluorene

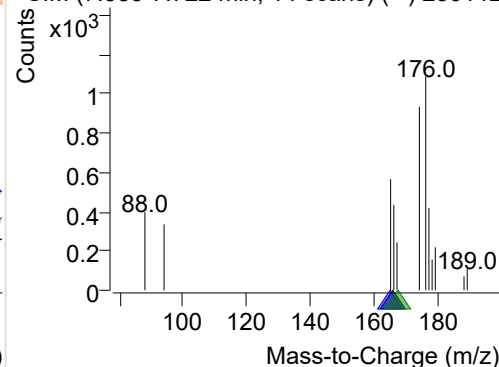
+ Selected Ion (166.0) 230112-PAHs-014.D



166.0, 165.0, 167.0

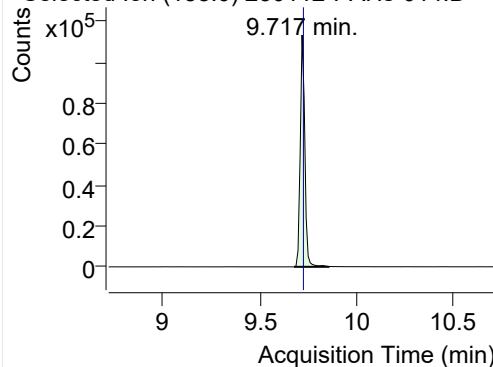


+ SIM (7.585-7.722 min, 14 scans) (**) 230112

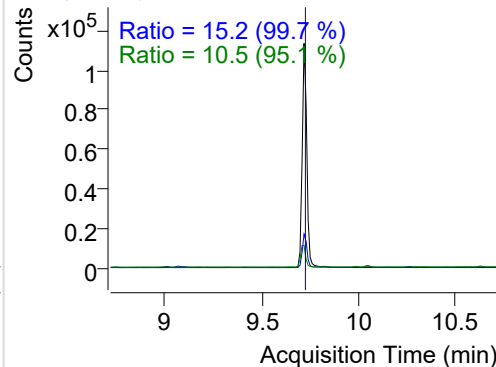


IS-D10-Phenanthrene

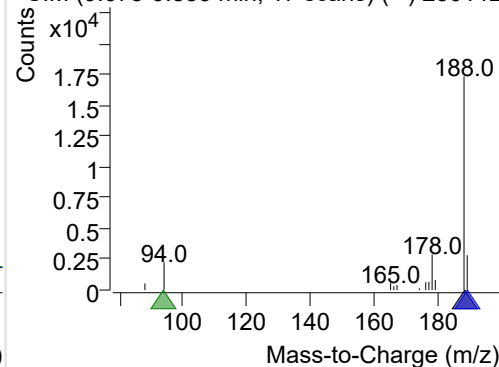
+ Selected Ion (188.0) 230112-PAHs-014.D



188.0, 189.0, 94.0

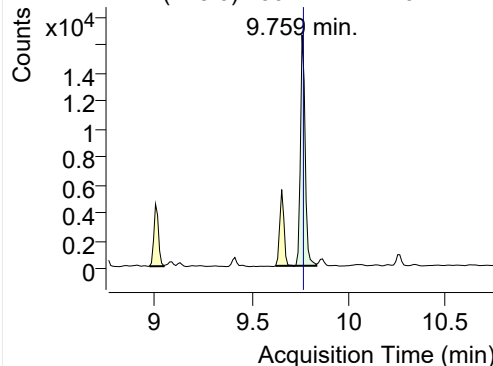


+ SIM (9.675-9.853 min, 17 scans) (**) 230112

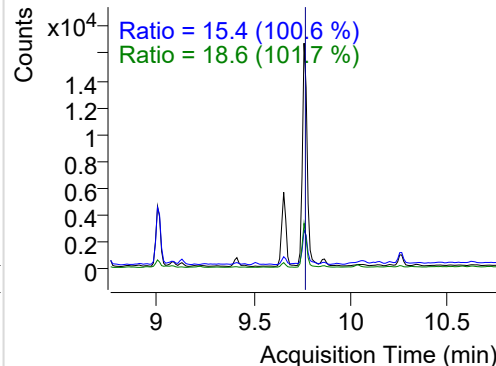


Phenanthrene

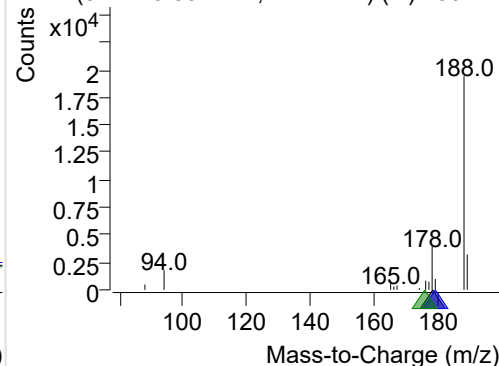
+ Selected Ion (178.0) 230112-PAHs-014.D



178.0, 179.0, 176.0

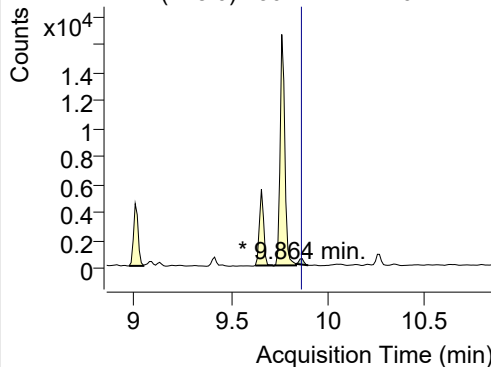


+ SIM (9.717-9.832 min, 12 scans) (**) 230112

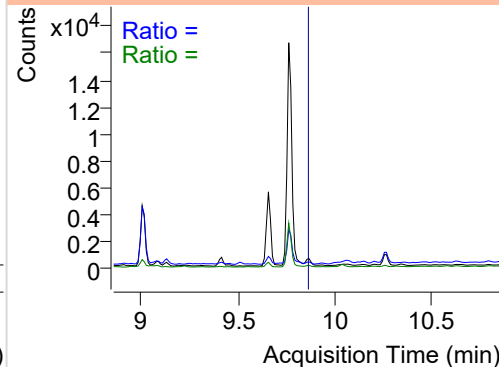


Anthracene

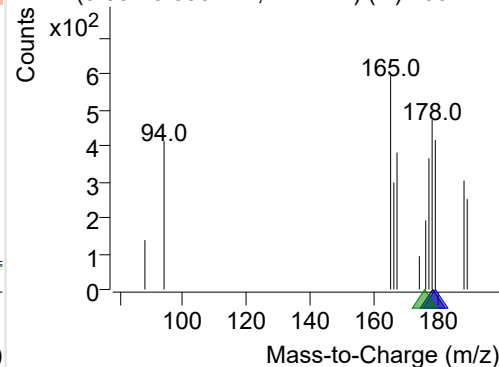
+ Selected Ion (178.0) 230112-PAHs-014.D



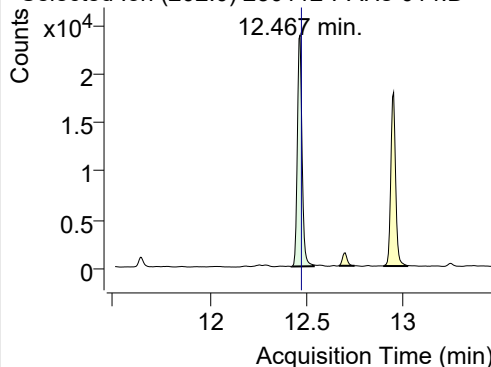
178.0, 179.0, 176.0



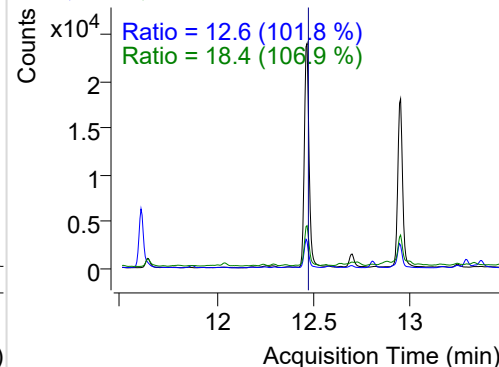
+ SIM (9.832-9.895 min, 7 scans) (**) 230112-I

**Fluoranthene**

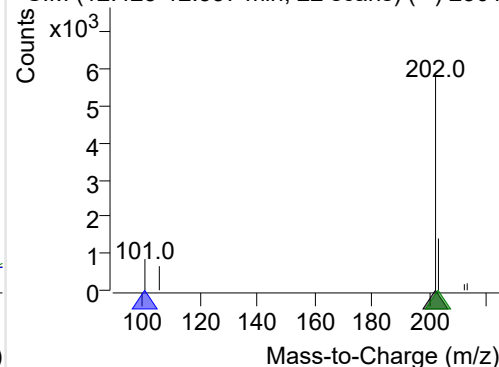
+ Selected Ion (202.0) 230112-PAHs-014.D



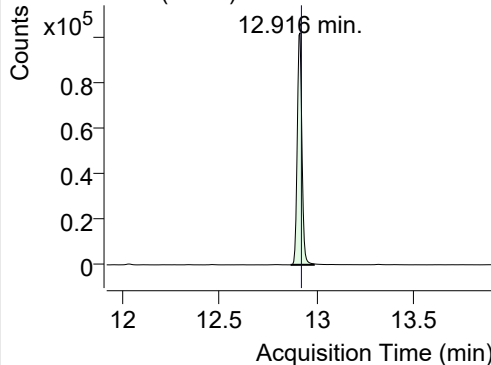
202.0, 101.0, 203.0



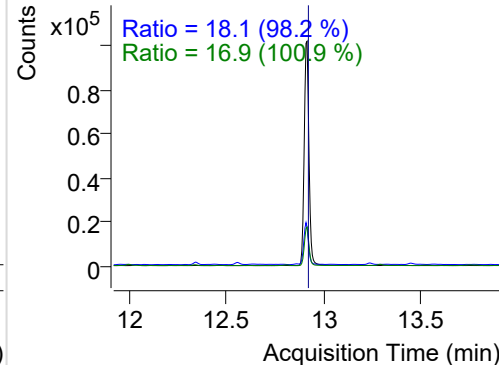
+ SIM (12.423-12.537 min, 22 scans) (**) 2301

**LSS-D10-Pyrene**

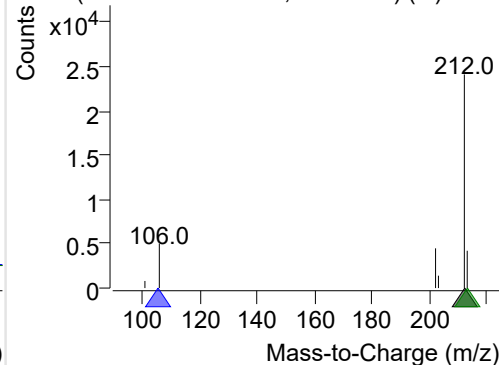
+ Selected Ion (212.0) 230112-PAHs-014.D



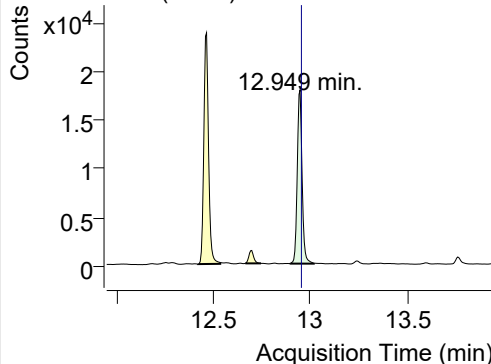
212.0, 106.0, 213.0



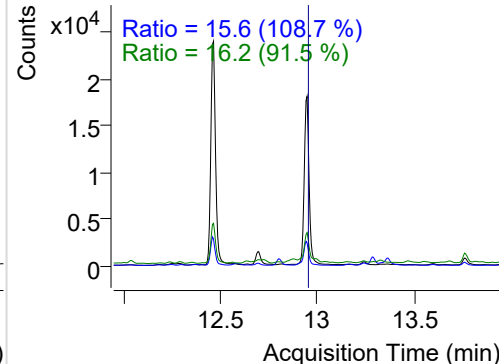
+ SIM (12.868-12.987 min, 22 scans) (**) 2301

**Pyrene**

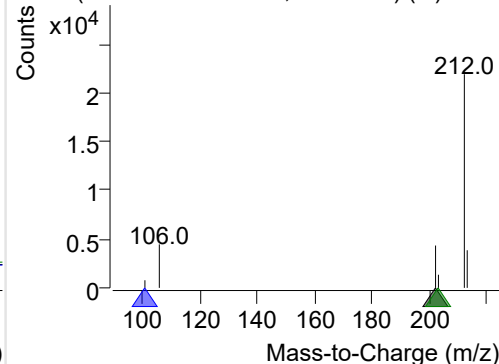
+ Selected Ion (202.0) 230112-PAHs-014.D



202.0, 101.0, 203.0

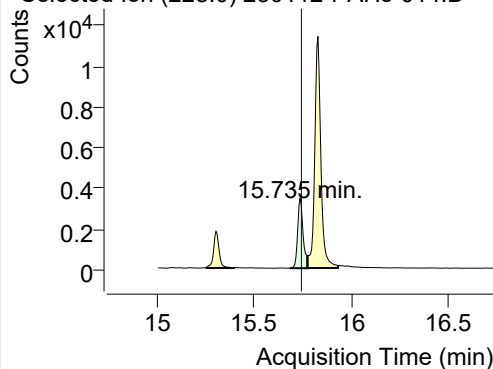


+ SIM (12.900-13.019 min, 23 scans) (**) 2301

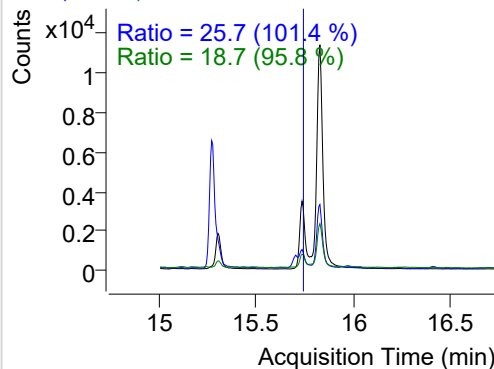


Benz(a)anthracene

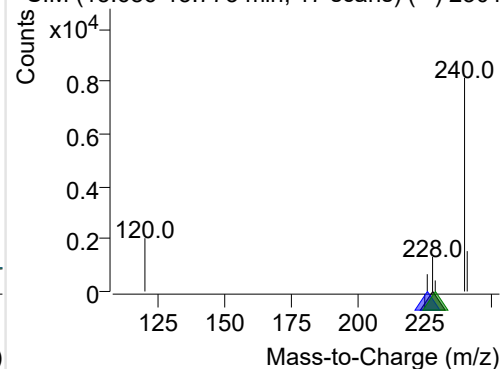
+ Selected Ion (228.0) 230112-PAHs-014.D



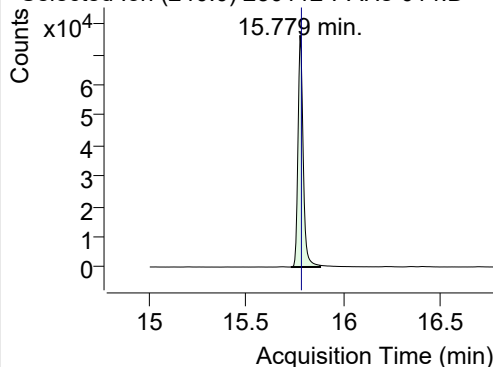
228.0, 226.0, 229.0



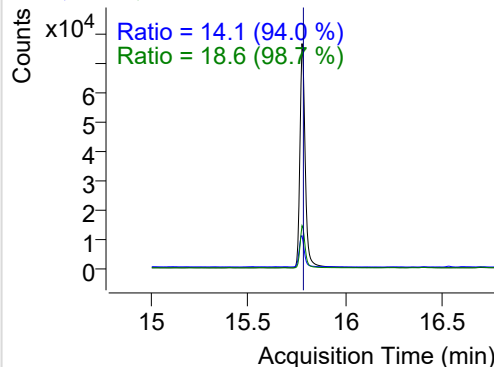
+ SIM (15.686-15.773 min, 17 scans) (**) 2301

**IS-D12-Chrysene**

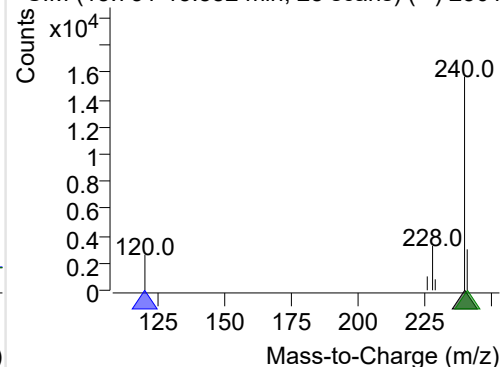
+ Selected Ion (240.0) 230112-PAHs-014.D



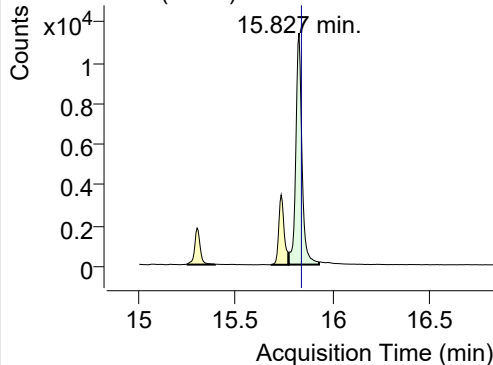
240.0, 120.0, 241.0



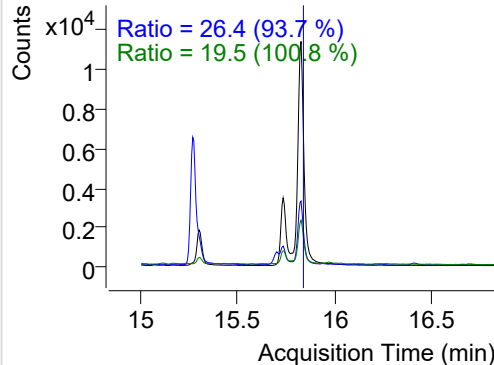
+ SIM (15.731-15.882 min, 28 scans) (**) 2301

**Chrysene**

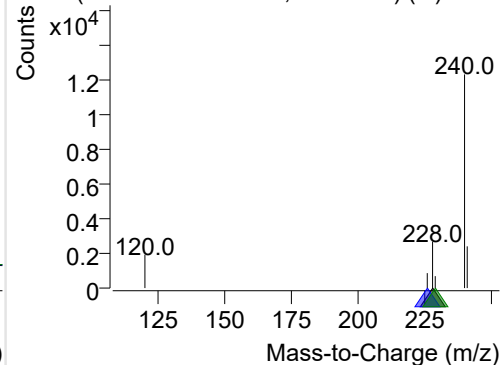
+ Selected Ion (228.0) 230112-PAHs-014.D



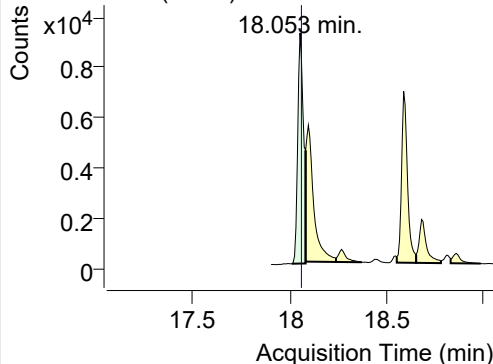
228.0, 226.0, 229.0



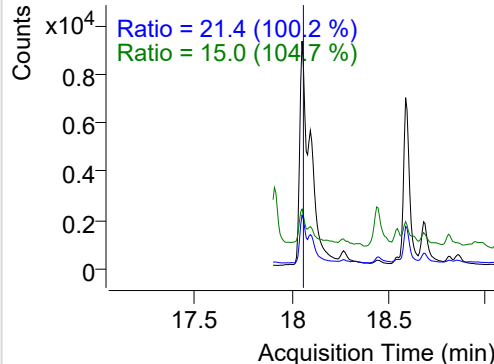
+ SIM (15.773-15.930 min, 30 scans) (**) 2301

**Benzo(b)fluoranthene**

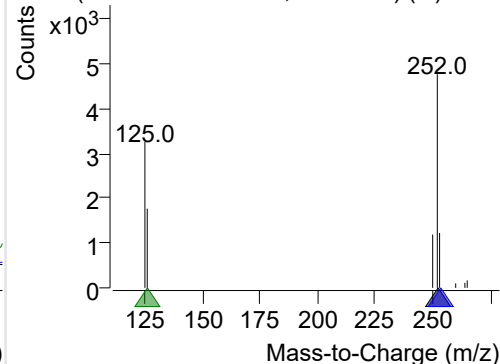
+ Selected Ion (252.0) 230112-PAHs-014.D



252.0, 253.0, 126.0

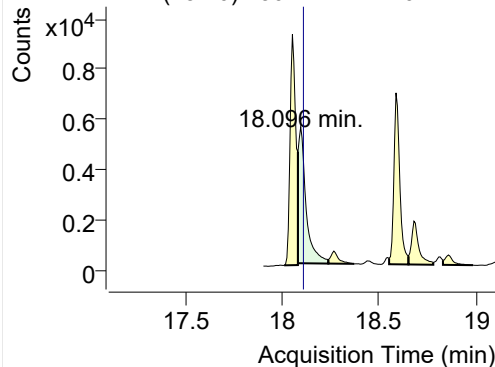


+ SIM (18.011-18.082 min, 10 scans) (**) 2301

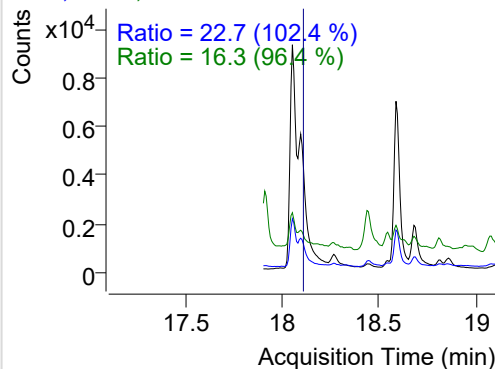


Benzo(k)fluoranthene

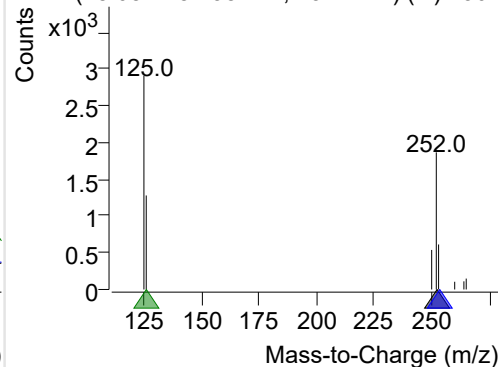
+ Selected Ion (252.0) 230112-PAHs-014.D



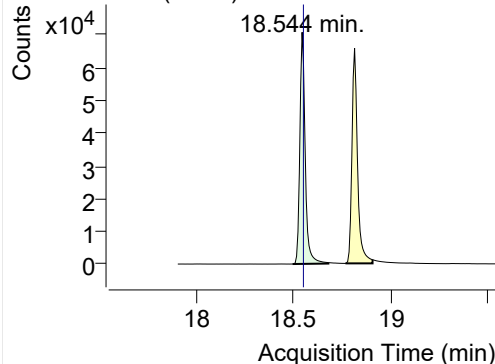
252.0, 253.0, 126.0



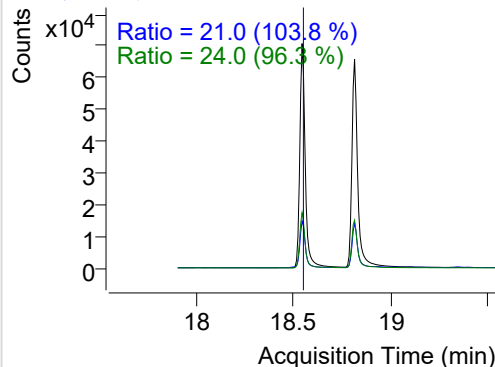
+ SIM (18.082-18.238 min, 23 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

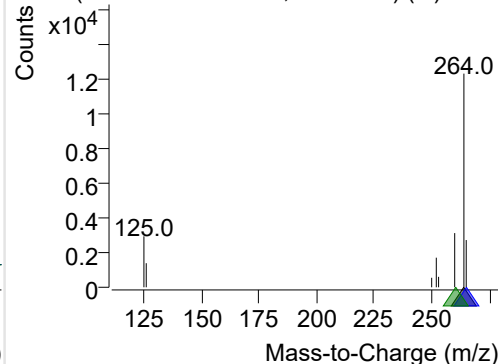
+ Selected Ion (264.0) 230112-PAHs-014.D



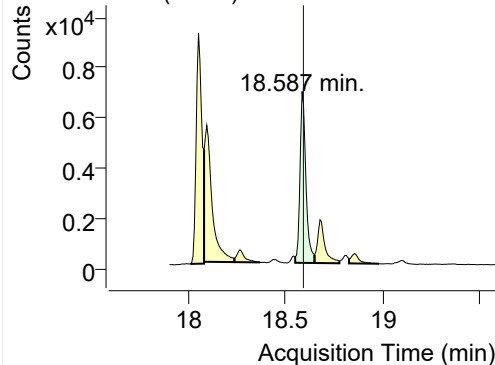
264.0, 265.0, 260.0



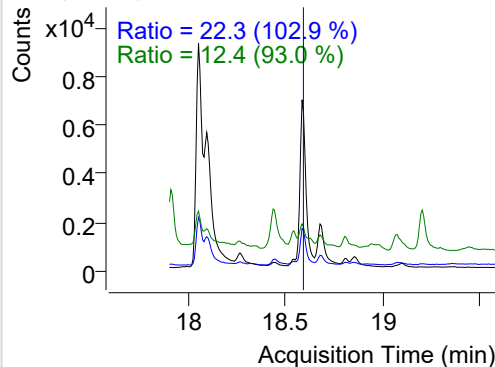
+ SIM (18.496-18.680 min, 26 scans) (**) 2301

**Benzo(e)pyrene**

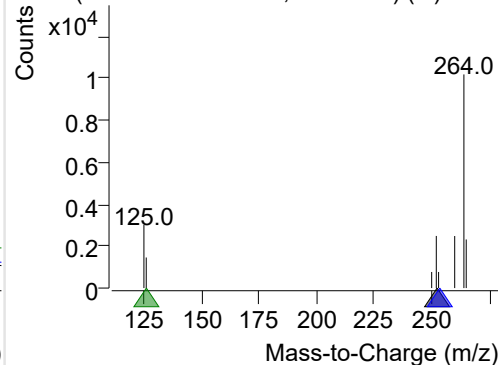
+ Selected Ion (252.0) 230112-PAHs-014.D



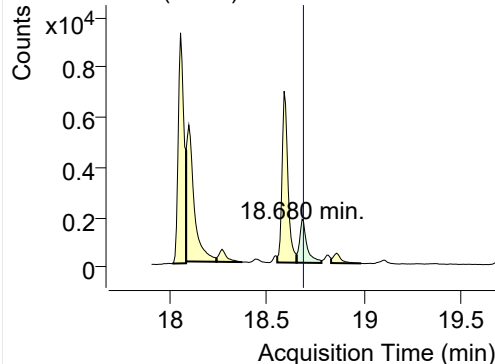
252.0, 253.0, 126.0



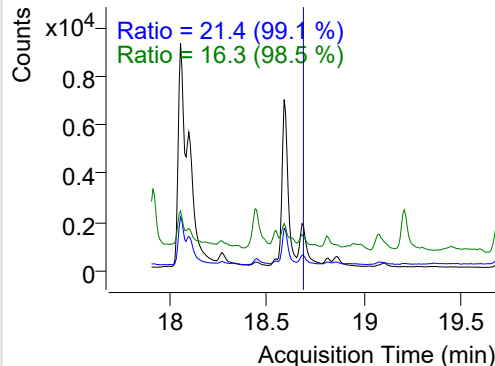
+ SIM (18.552-18.651 min, 15 scans) (**) 2301

**Benzo(a)pyrene**

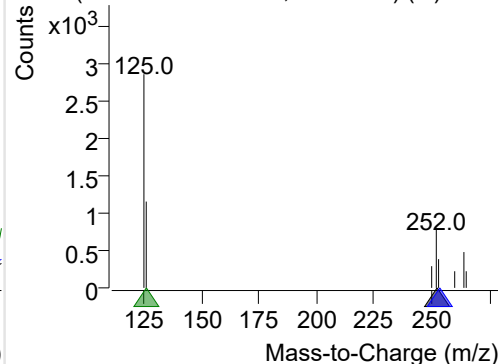
+ Selected Ion (252.0) 230112-PAHs-014.D



252.0, 253.0, 126.0

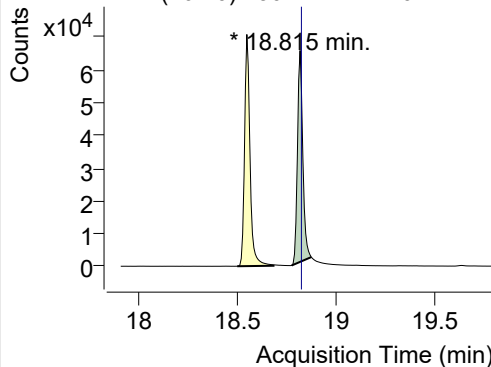


+ SIM (18.651-18.779 min, 19 scans) (**) 2301

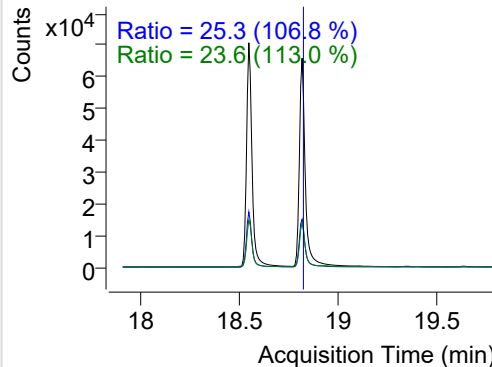


IS-D12-Perylene

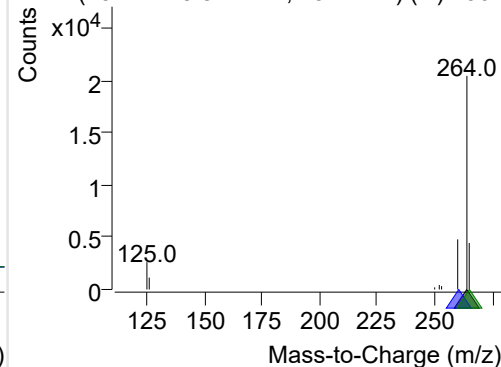
+ Selected Ion (264.0) 230112-PAHs-014.D



264.0, 260.0, 265.0

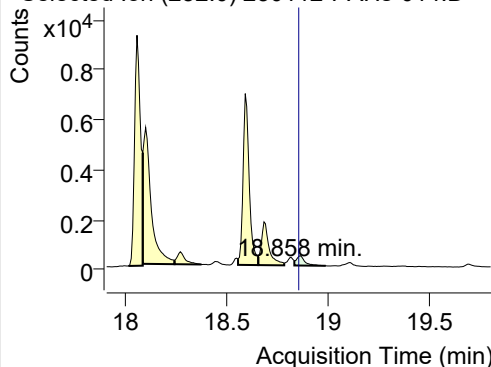


+ SIM (18.772-18.872 min, 15 scans) (**) 2301

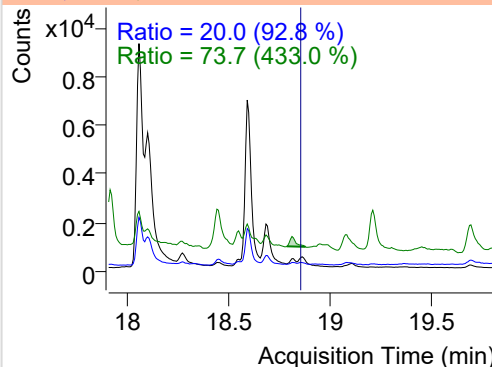


Perylene

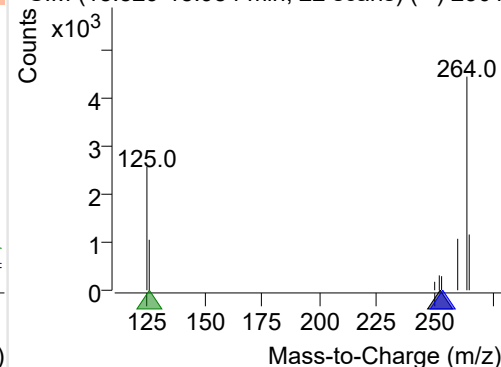
+ Selected Ion (252.0) 230112-PAHs-014.D



252.0, 253.0, 126.0

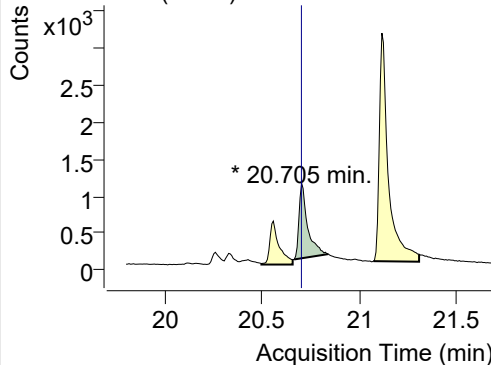


+ SIM (18.829-18.984 min, 22 scans) (**) 2301

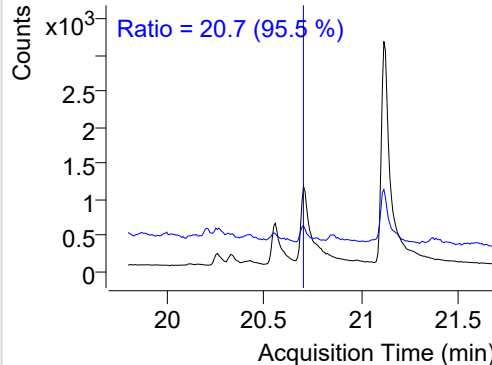


Indeno(1,2,3-c,d)pyrene

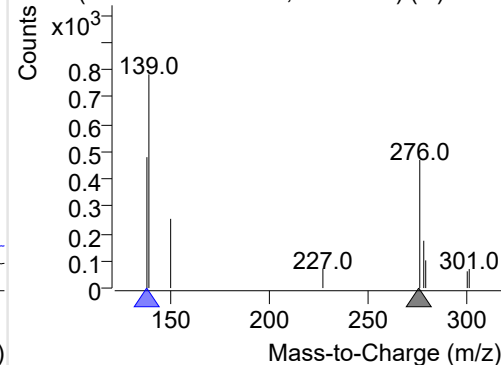
+ Selected Ion (276.0) 230112-PAHs-014.D



276.0, 138.0

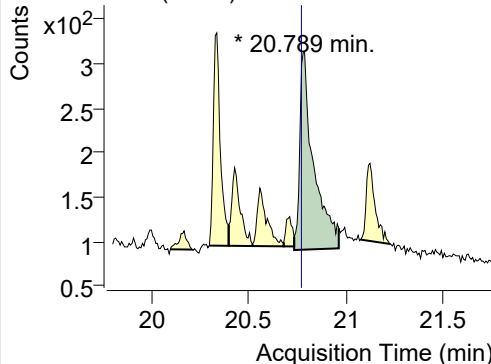


+ SIM (20.667-20.843 min, 24 scans) (**) 2301

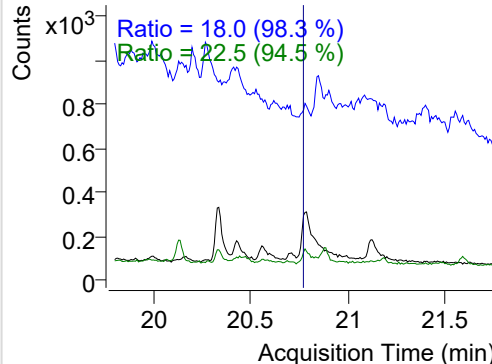


Dibenz(a,h)anthracene

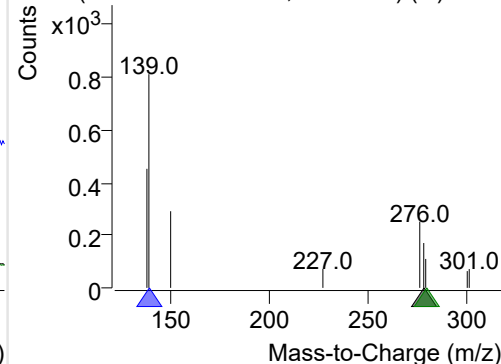
+ Selected Ion (278.0) 230112-PAHs-014.D



278.0, 139.0, 279.0

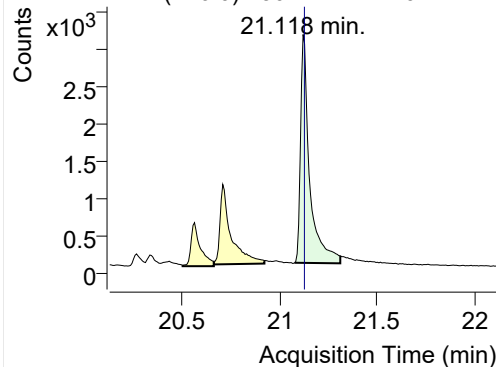


+ SIM (20.736-20.965 min, 31 scans) (**) 2301

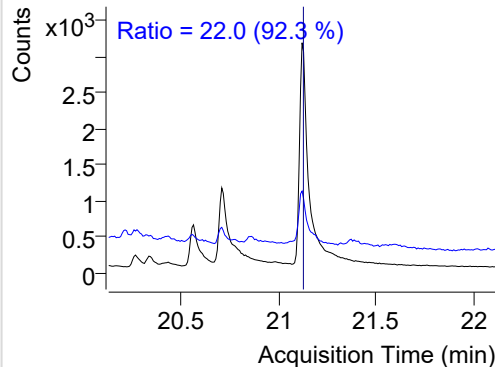


Benzo(g,h,i)perylene

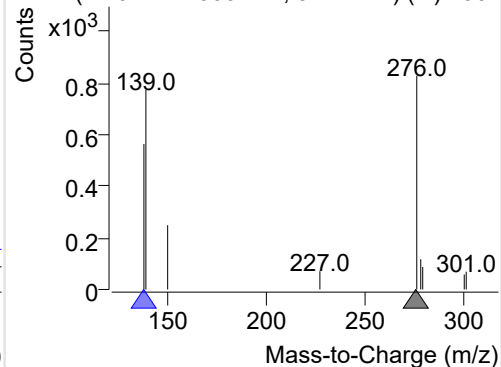
+ Selected Ion (276.0) 230112-PAHs-014.D



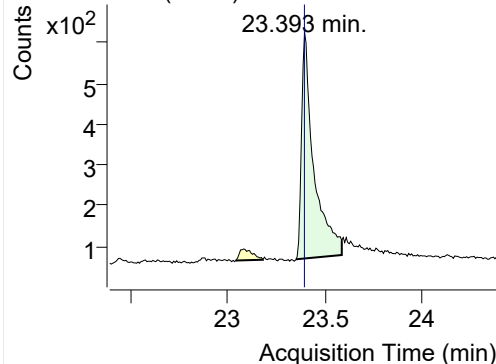
276.0, 138.0



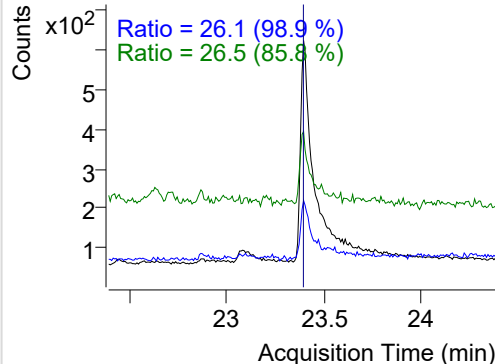
+ SIM (21.074-21.309 min, 31 scans) (**) 2301

**Coronene**

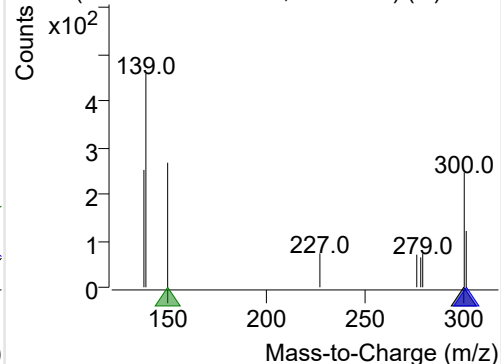
+ Selected Ion (300.0) 230112-PAHs-014.D



300.0, 301.0, 150.0



+ SIM (23.349-23.584 min, 31 scans) (**) 2301



Quantitative Analysis Sample Based Report

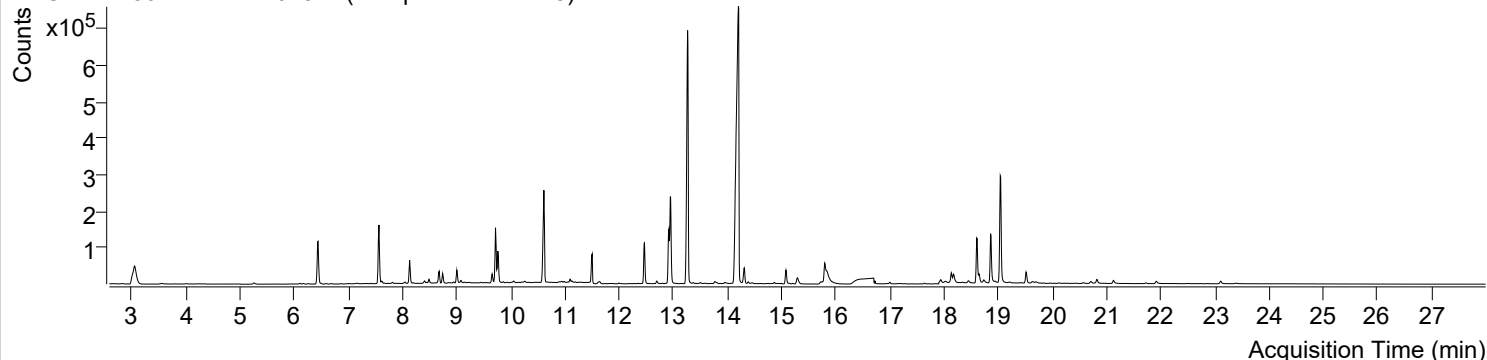


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 7:00:33	Data File	230112-PAHs-015.D
Type	Sample	Name	Sample-PM-221215
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

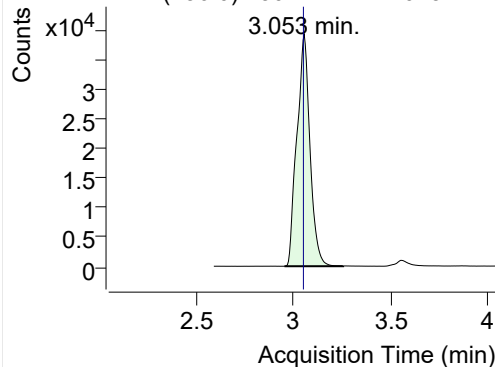
+ TIC SIM 230112-PAHs-015.D (Sample-PM-221215)



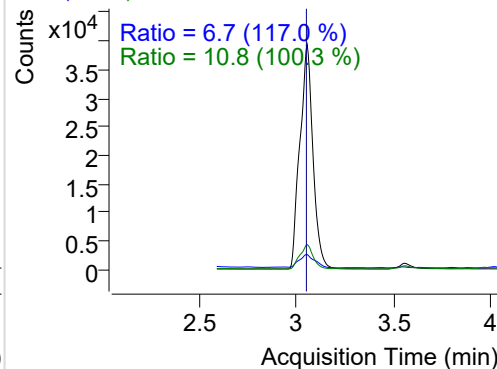
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.053	136.0	183907	39261.96	ND ng/ml	10.8
Naphthalene	3.080	128.0	20614	4401.92	ND ng/ml	12.0
Acenaphthylene	6.108	152.0	3511	1639.92	ND ng/ml	17.9
IS-D10-Acenaphthene	6.439	164.0	108678	57062.19	ND ng/ml	94.1
Acenaphthene	6.493	154.0	908	433.36	ND ng/ml	108.0
LSS-D10-Fluorene	7.564	176.0	125189	74731.95	ND ng/ml	90.6
Fluorene	7.617	166.0	4948	2800.15	ND ng/ml	105.8
IS-D10-Phenanthrene	9.717	188.0	189751	120393.48	ND ng/ml	15.2
Phenanthrene	9.759	178.0	93734	55574.07	ND ng/ml	18.6
Anthracene	9.864	178.0	2642	1422.80	ND ng/ml	
Fluoranthene	12.467	202.0	142552	86413.91	ND ng/ml	17.7
LSS-D10-Pyrene	12.917	212.0	185546	107560.08	ND ng/ml	18.2
Pyrene	12.949	202.0	296635	178080.00	ND ng/ml	18.0
Benz(a)anthracene	15.751	228.0	10743	3448.00	ND ng/ml	24.6
IS-D12-Chrysene	15.795	240.0	153171	40845.46	ND ng/ml	18.7
Chrysene	15.844	228.0	43821	9777.44	ND ng/ml	30.1
Benzo(b)fluoranthene	18.132	252.0	27609	15889.30	ND ng/ml	22.2
Benzo(k)fluoranthene	18.174	252.0	30798	12842.12	ND ng/ml	20.0
SS-D12-Benzo(e)pyrene	18.601	264.0	155799	83826.50	ND ng/ml	24.3
Benzo(e)pyrene	18.644	252.0	21791	11022.78	ND ng/ml	20.1
Benzo(a)pyrene	18.730	252.0	10112	4390.15	ND ng/ml	21.6
IS-D12-Perylene	18.858	264.0	147763	89878.93	ND ng/ml	25.7
Perylene	18.858	252.0	633	365.52	ND ng/ml	
Indeno(1,2,3-c,d)pytene	20.713	276.0	10868	3904.19	ND ng/ml	17.9
Dibenz(a,h)anthracene	20.789	278.0	1348	544.44	ND ng/ml	19.5
Benzo(g,h,i)perylene	21.125	276.0	17415	6634.80	ND ng/ml	24.9
Coronene	23.393	300.0	3685	969.32	ND ng/ml	24.9

IS-D8-Naphthalene

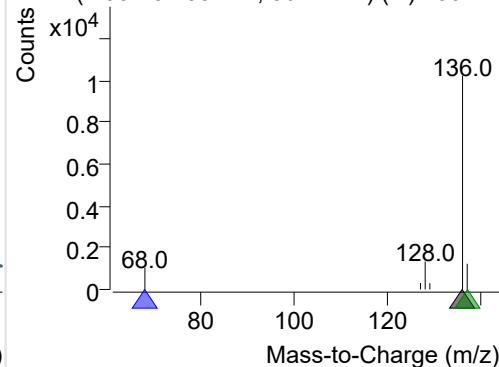
+ Selected Ion (136.0) 230112-PAHs-015.D



136.0, 68.0, 137.0

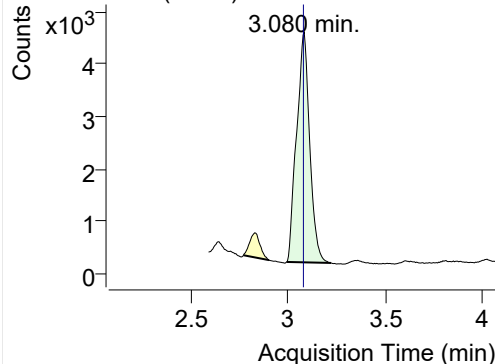


+ SIM (2.951-3.253 min, 56 scans) (**) 230112

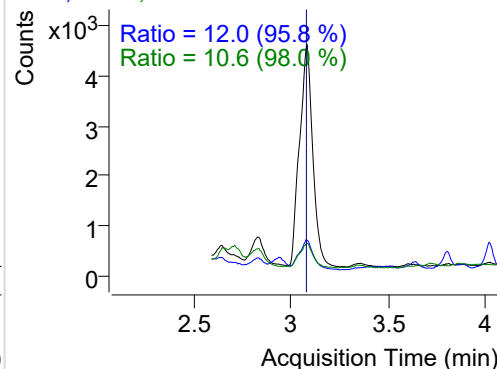


Naphthalene

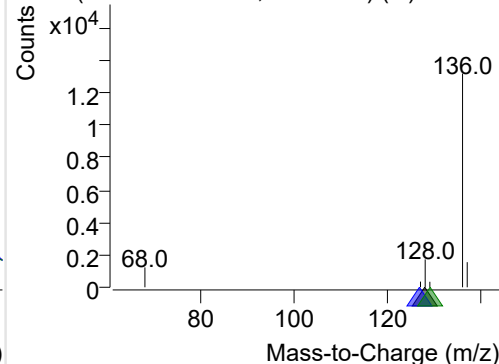
+ Selected Ion (128.0) 230112-PAHs-015.D



128.0, 127.0, 129.0

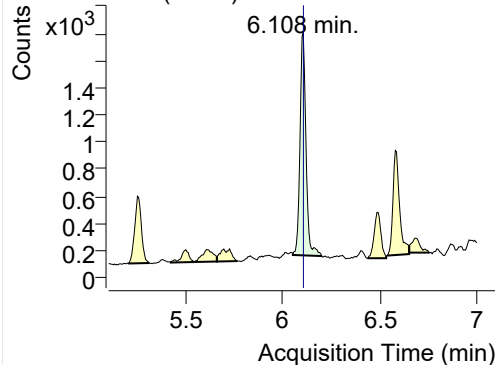


+ SIM (2.989-3.218 min, 42 scans) (**) 230112

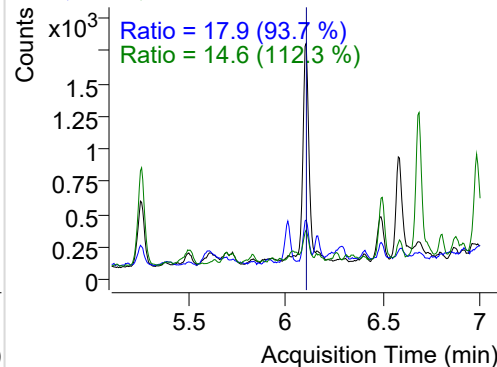


Acenaphthylene

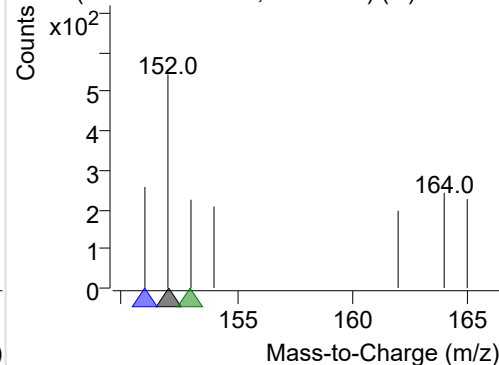
+ Selected Ion (152.0) 230112-PAHs-015.D



152.0, 151.0, 153.0

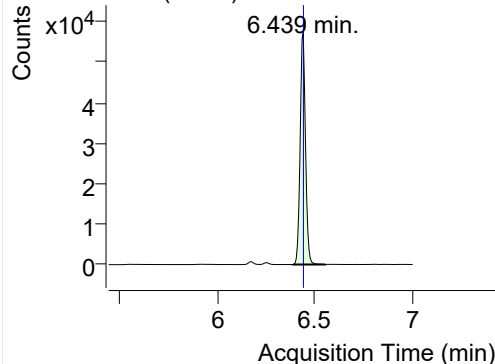


+ SIM (6.055-6.204 min, 26 scans) (**) 230112

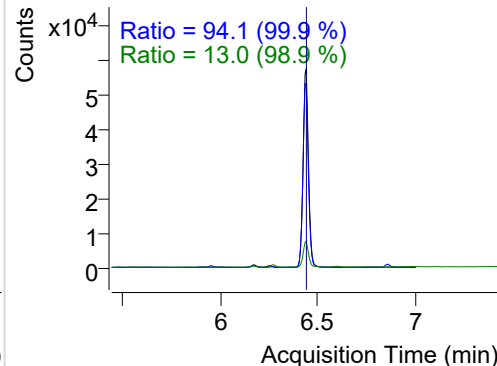


IS-D10-Acenaphthene

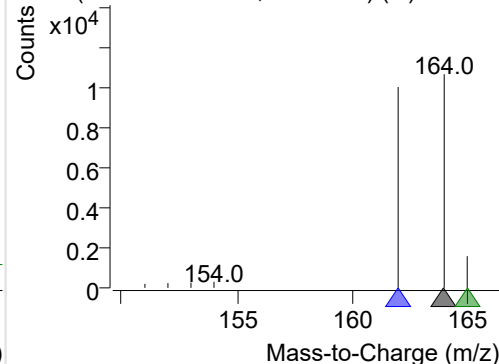
+ Selected Ion (164.0) 230112-PAHs-015.D



164.0, 162.0, 165.0

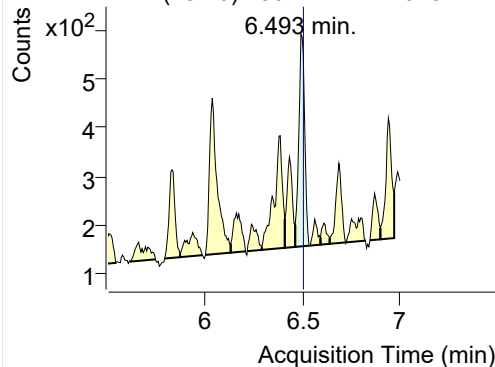


+ SIM (6.386-6.552 min, 29 scans) (**) 230112

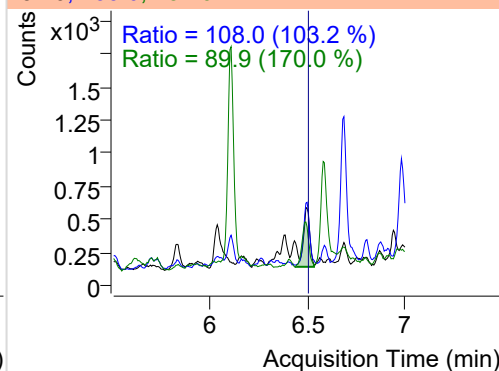


Acenaphthene

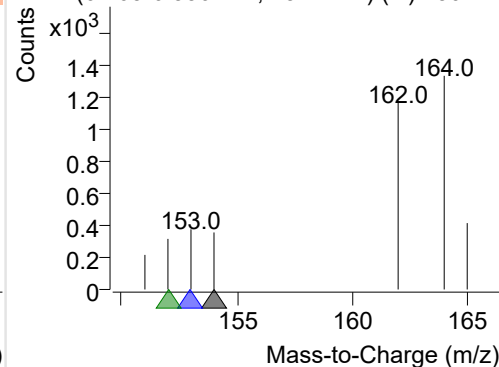
+ Selected Ion (154.0) 230112-PAHs-015.D



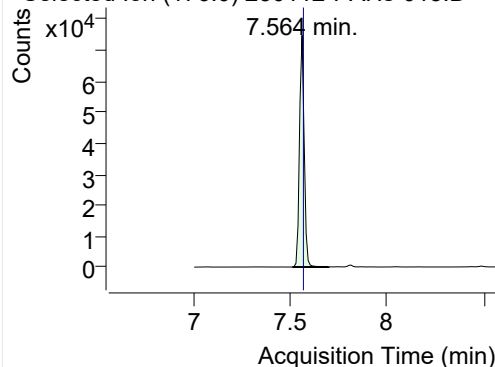
154.0, 153.0, 152.0



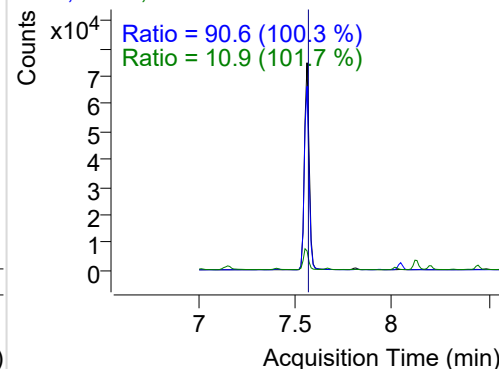
+ SIM (6.463-6.536 min, 13 scans) (**) 230112

**LSS-D10-Fluorene**

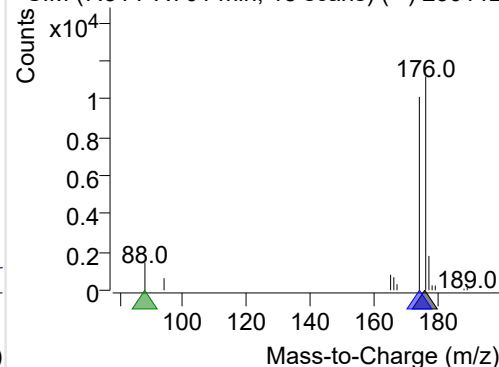
+ Selected Ion (176.0) 230112-PAHs-015.D



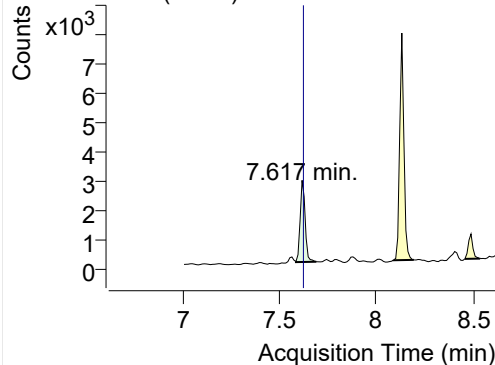
176.0, 174.0, 88.0



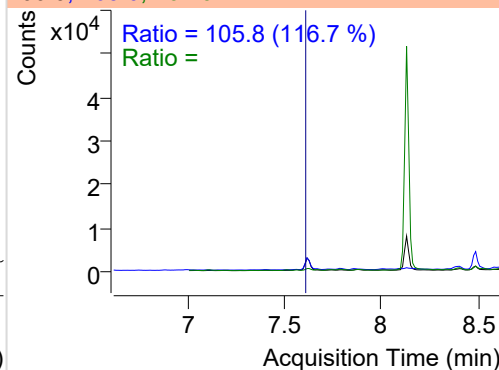
+ SIM (7.514-7.701 min, 18 scans) (**) 230112

**Fluorene**

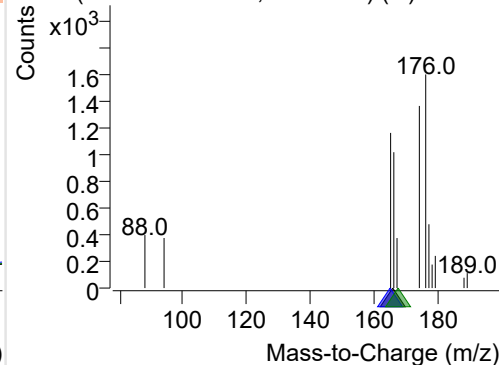
+ Selected Ion (166.0) 230112-PAHs-015.D



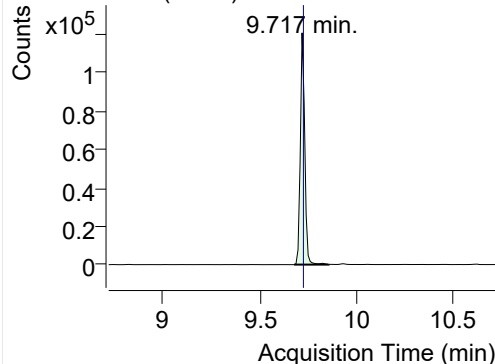
166.0, 165.0, 167.0



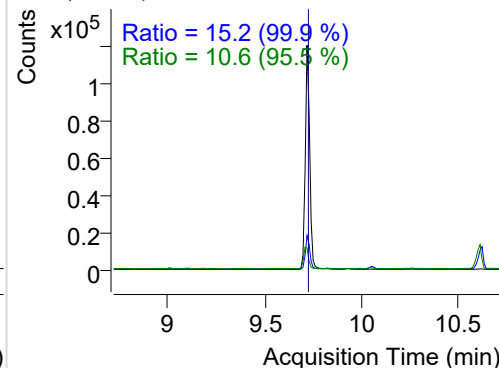
+ SIM (7.585-7.690 min, 10 scans) (**) 230112

**IS-D10-Phenanthrene**

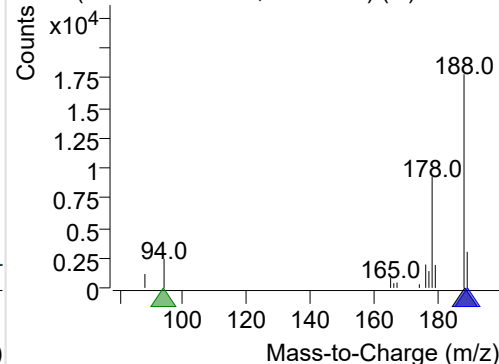
+ Selected Ion (188.0) 230112-PAHs-015.D



188.0, 189.0, 94.0

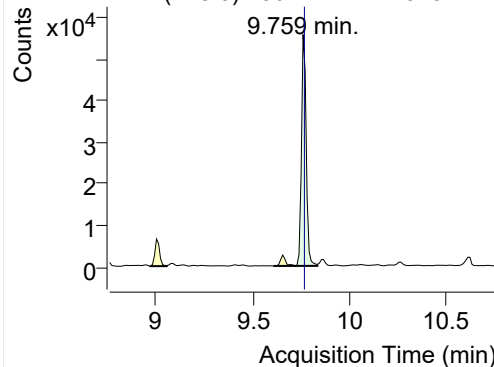


+ SIM (9.676-9.853 min, 17 scans) (**) 230112

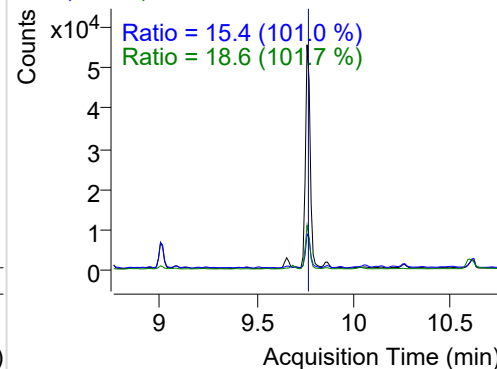


Phenanthrene

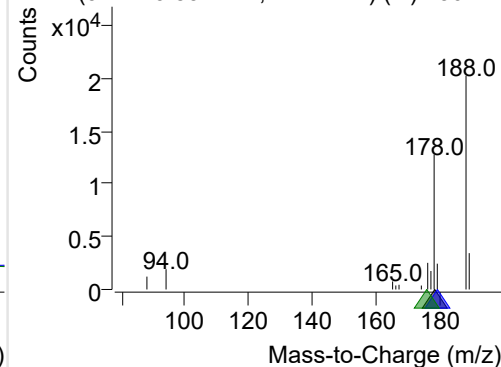
+ Selected Ion (178.0) 230112-PAHs-015.D



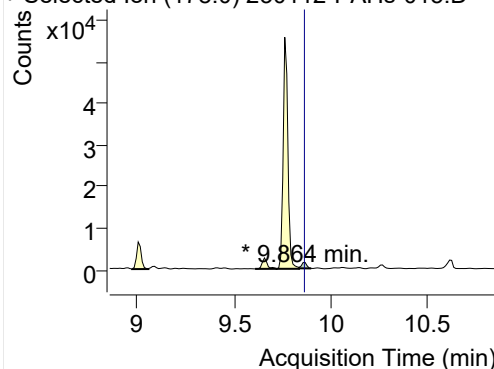
178.0, 179.0, 176.0



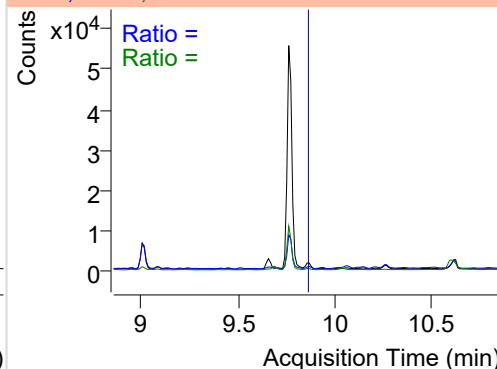
+ SIM (9.717-9.832 min, 12 scans) (**) 230112

**Anthracene**

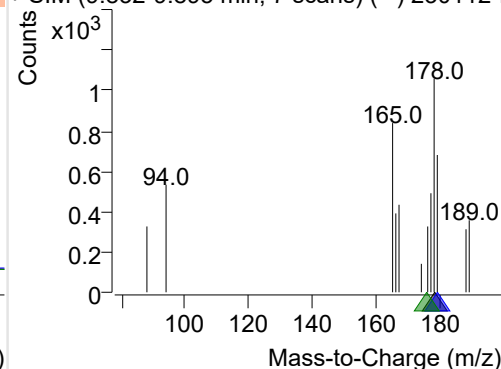
+ Selected Ion (178.0) 230112-PAHs-015.D



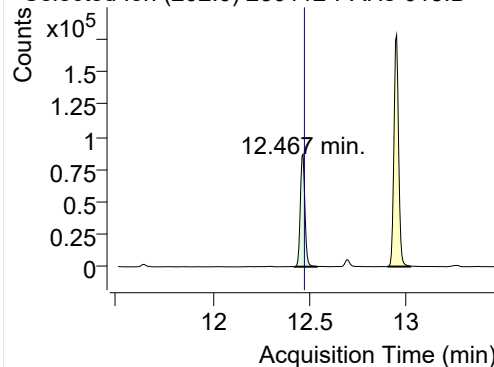
178.0, 179.0, 176.0



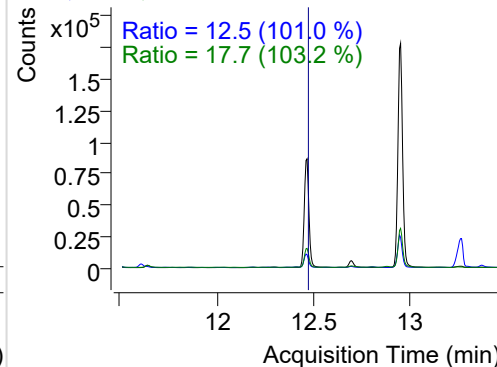
+ SIM (9.832-9.895 min, 7 scans) (**) 230112-I

**Fluoranthene**

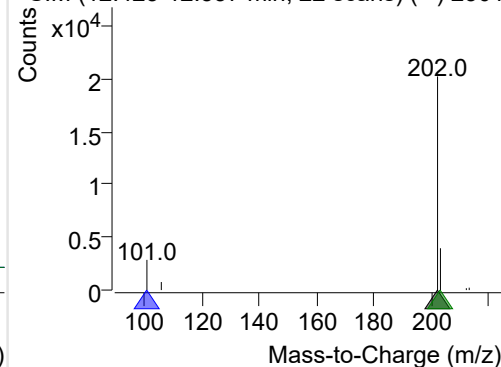
+ Selected Ion (202.0) 230112-PAHs-015.D



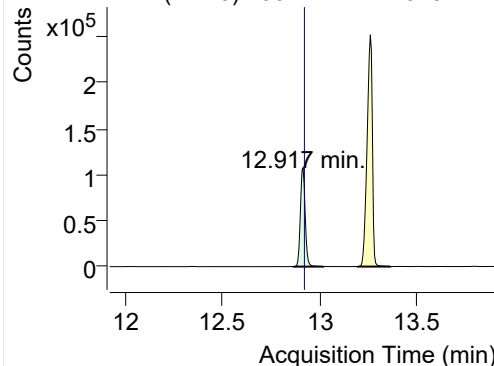
202.0, 101.0, 203.0



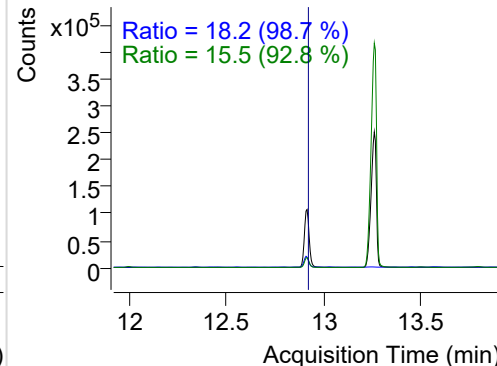
+ SIM (12.423-12.537 min, 22 scans) (**) 2301

**LSS-D10-Pyrene**

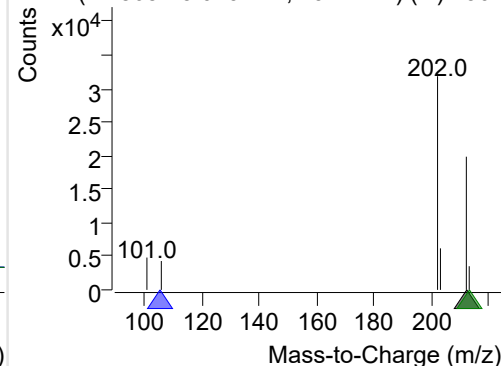
+ Selected Ion (212.0) 230112-PAHs-015.D



212.0, 106.0, 213.0

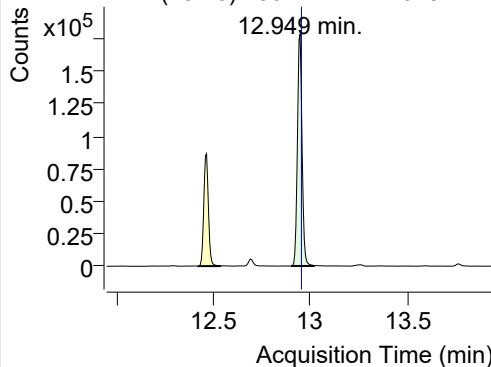


+ SIM (12.868-13.019 min, 29 scans) (**) 2301

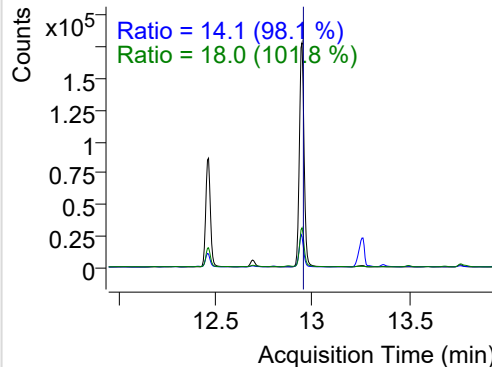


Pyrene

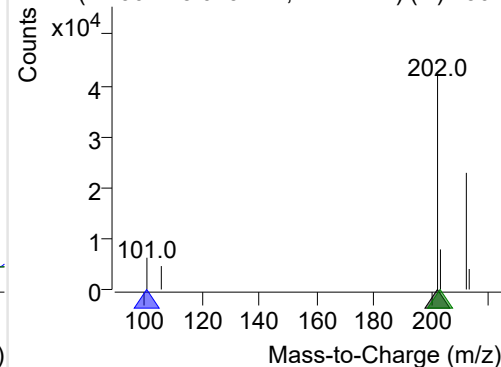
+ Selected Ion (202.0) 230112-PAHs-015.D



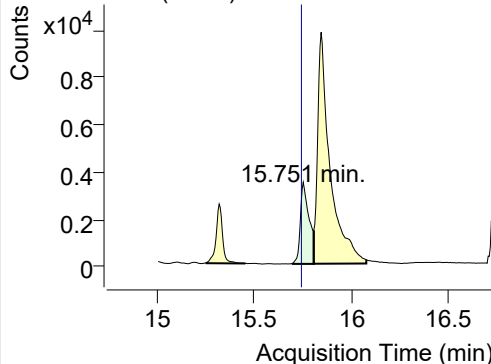
202.0, 101.0, 203.0



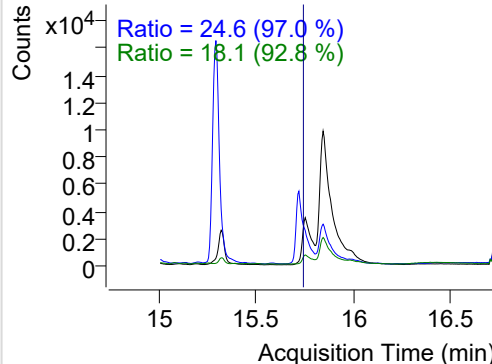
+ SIM (12.902-13.019 min, 22 scans) (**) 2301

**Benz(a)anthracene**

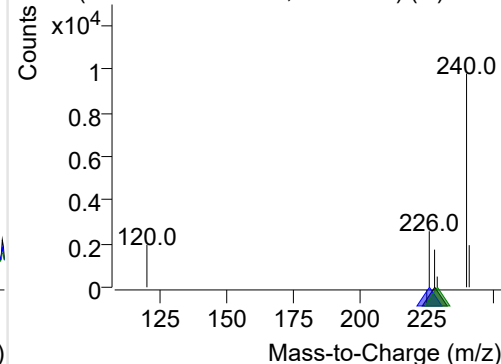
+ Selected Ion (228.0) 230112-PAHs-015.D



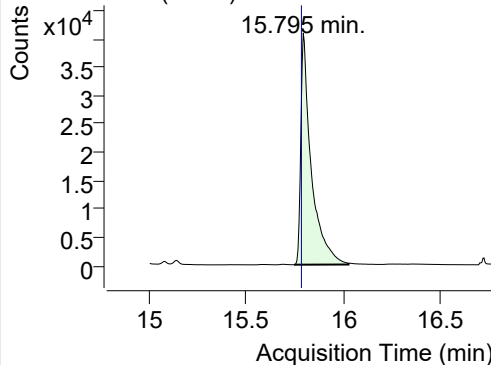
228.0, 226.0, 229.0



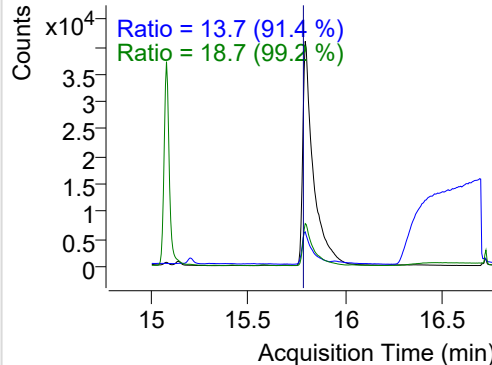
+ SIM (15.697-15.806 min, 21 scans) (**) 2301

**IS-D12-Chrysene**

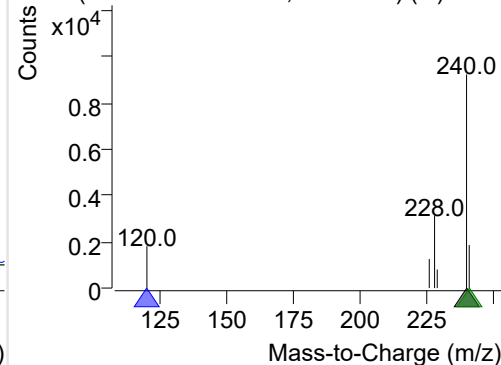
+ Selected Ion (240.0) 230112-PAHs-015.D



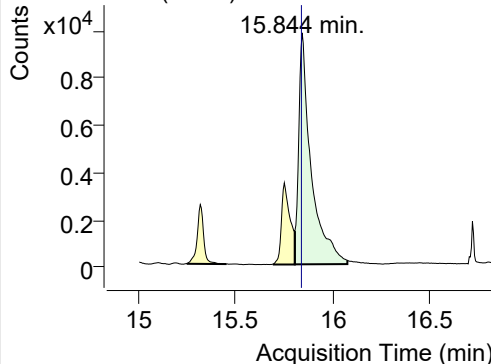
240.0, 120.0, 241.0



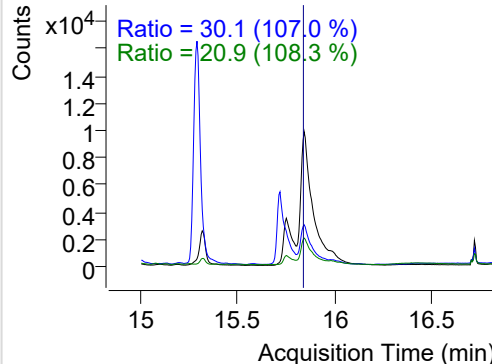
+ SIM (15.747-16.028 min, 52 scans) (**) 2301

**Chrysene**

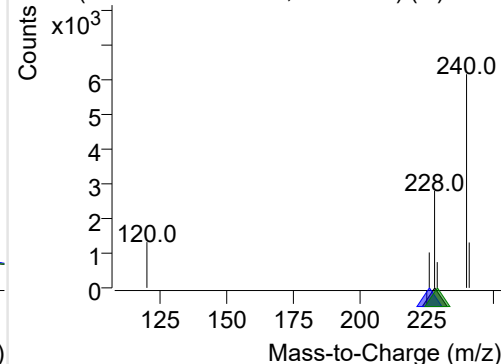
+ Selected Ion (228.0) 230112-PAHs-015.D



228.0, 226.0, 229.0

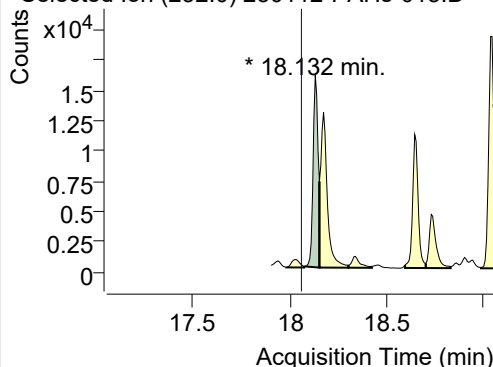


+ SIM (15.806-16.077 min, 51 scans) (**) 2301

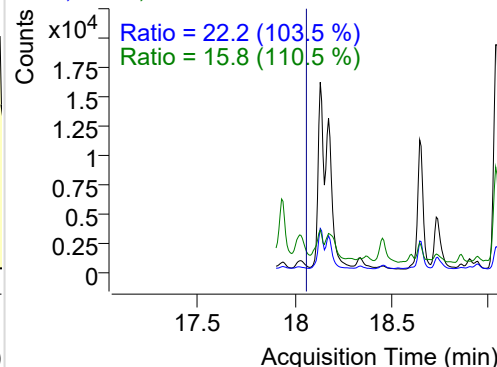


Benzo(b)fluoranthene

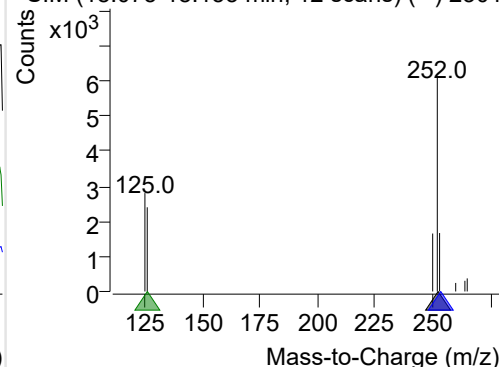
+ Selected Ion (252.0) 230112-PAHs-015.D



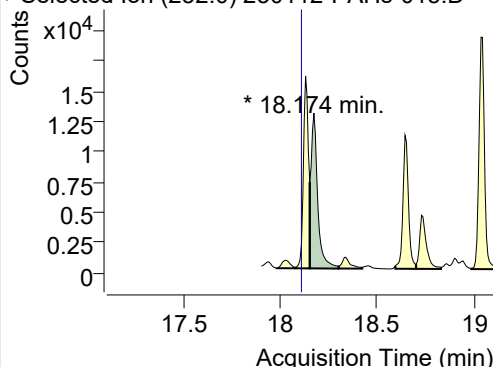
252.0, 253.0, 126.0



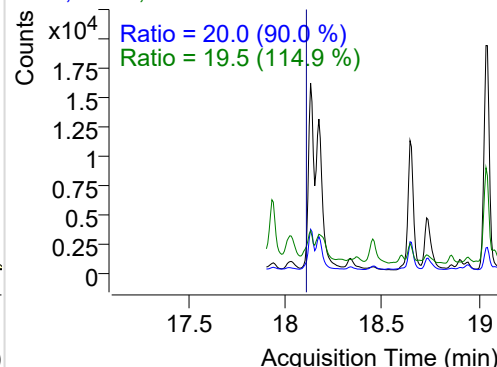
+ SIM (18.075-18.153 min, 12 scans) (**) 2301

**Benzo(k)fluoranthene**

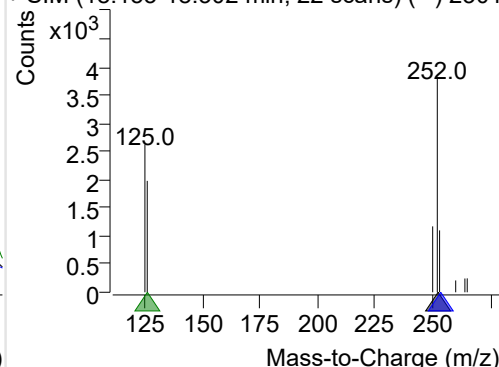
+ Selected Ion (252.0) 230112-PAHs-015.D



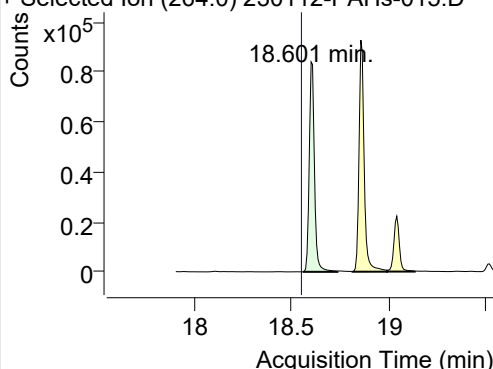
252.0, 253.0, 126.0



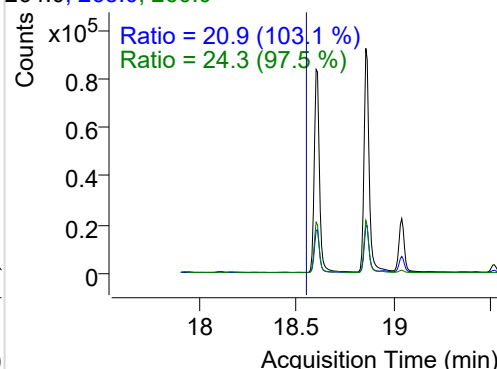
+ SIM (18.153-18.302 min, 22 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

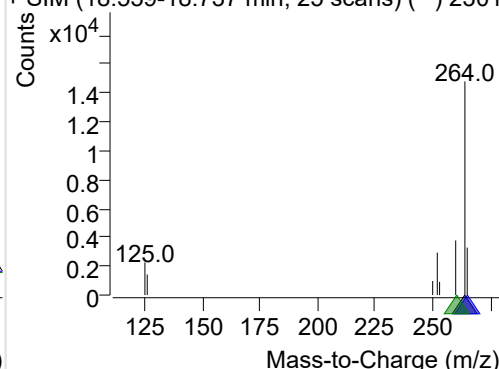
+ Selected Ion (264.0) 230112-PAHs-015.D



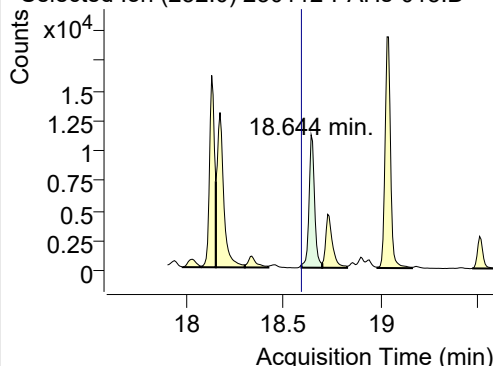
264.0, 265.0, 260.0



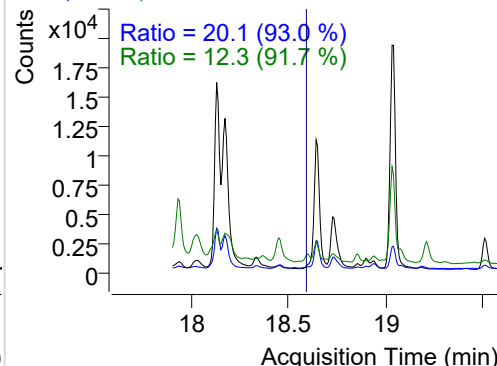
+ SIM (18.559-18.737 min, 25 scans) (**) 2301

**Benzo(e)pyrene**

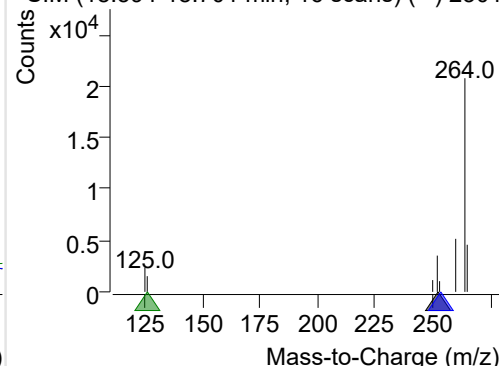
+ Selected Ion (252.0) 230112-PAHs-015.D



252.0, 253.0, 126.0

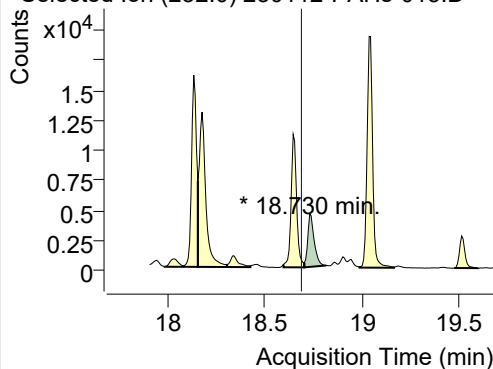


+ SIM (18.594-18.701 min, 16 scans) (**) 2301

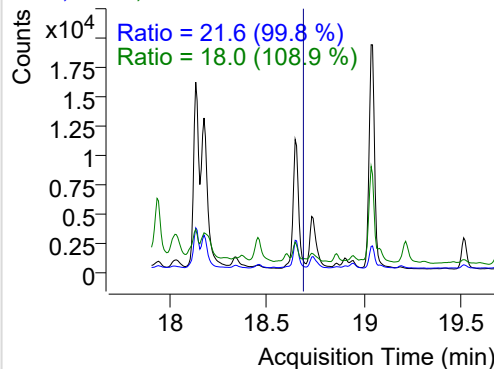


Benzo(a)pyrene

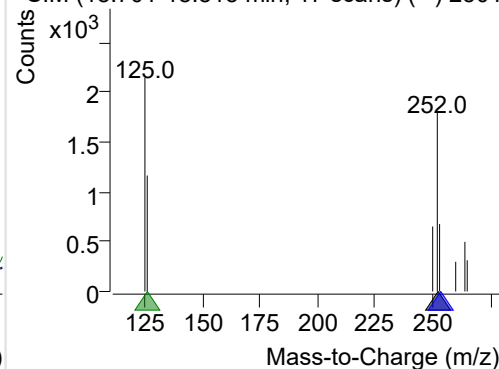
+ Selected Ion (252.0) 230112-PAHs-015.D



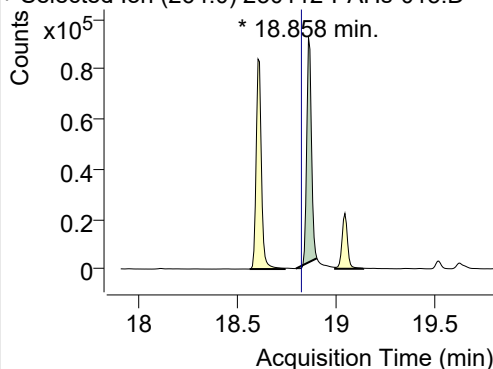
252.0, 253.0, 126.0



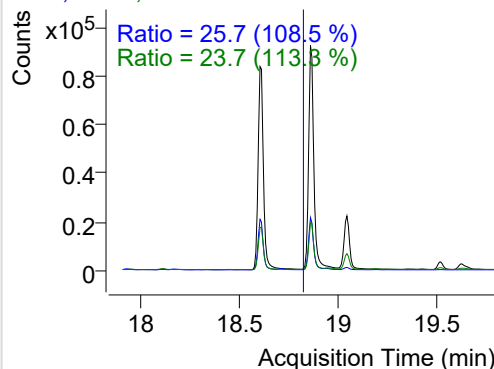
+ SIM (18.701-18.815 min, 17 scans) (**) 2301

**IS-D12-Perylene**

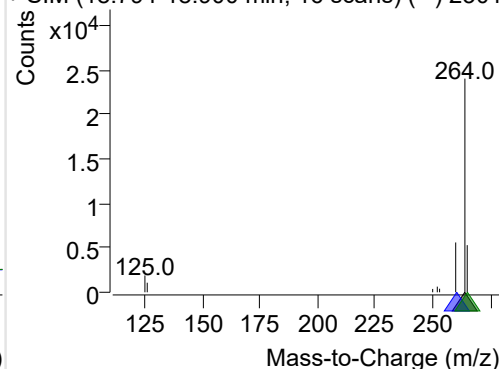
+ Selected Ion (264.0) 230112-PAHs-015.D



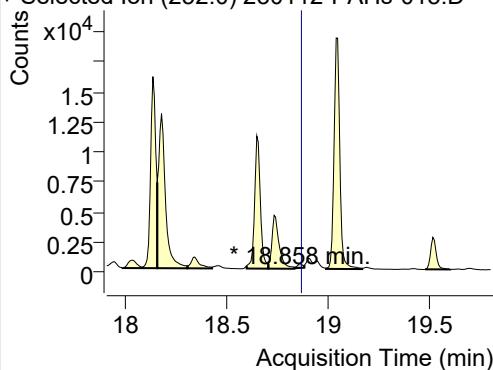
264.0, 260.0, 265.0



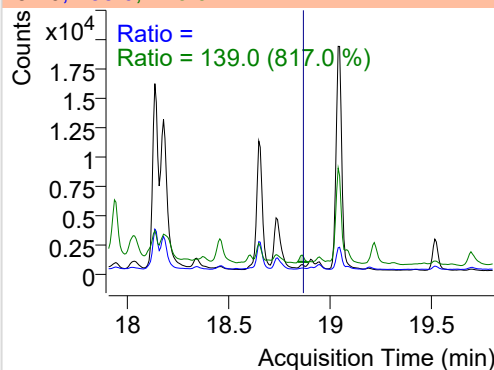
+ SIM (18.794-18.900 min, 16 scans) (**) 2301

**Perylene**

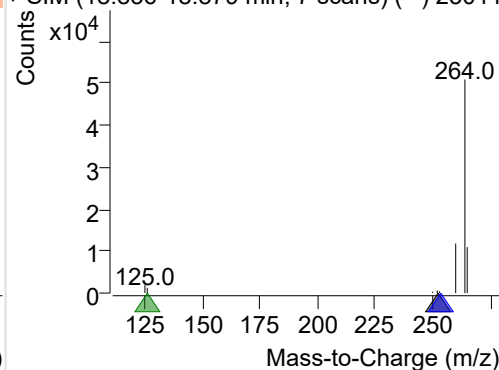
+ Selected Ion (252.0) 230112-PAHs-015.D



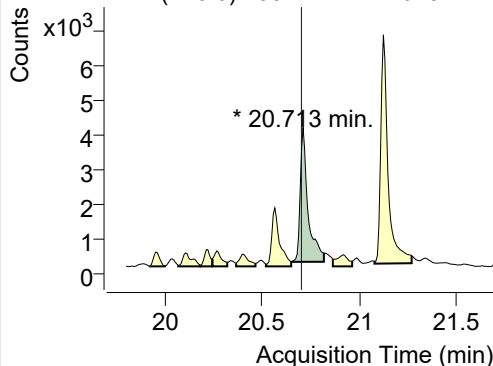
252.0, 253.0, 126.0



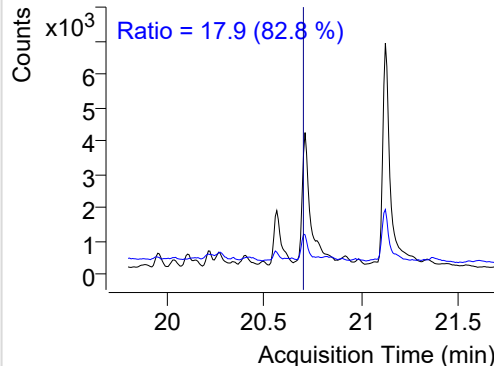
+ SIM (18.836-18.879 min, 7 scans) (**) 23011

**Indeno(1,2,3-c,d)pyrene**

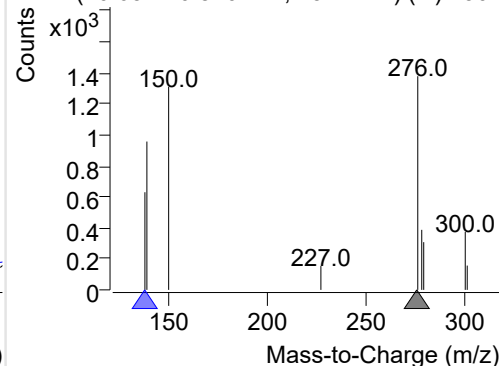
+ Selected Ion (276.0) 230112-PAHs-015.D



276.0, 138.0

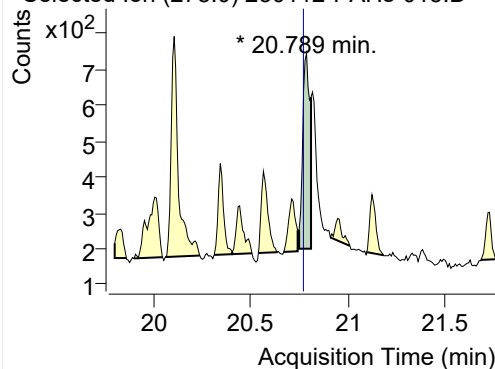


+ SIM (20.652-20.820 min, 23 scans) (**) 2301

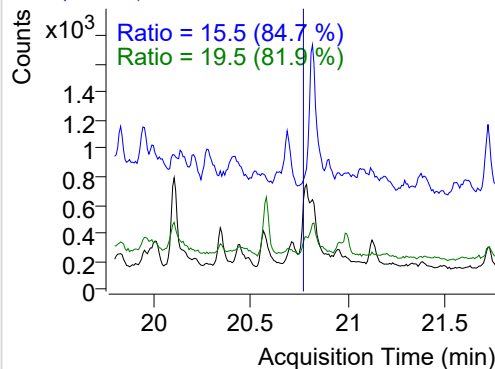


Dibenz(a,h)anthracene

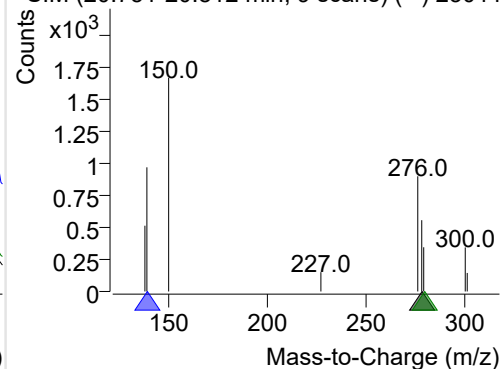
+ Selected Ion (278.0) 230112-PAHs-015.D



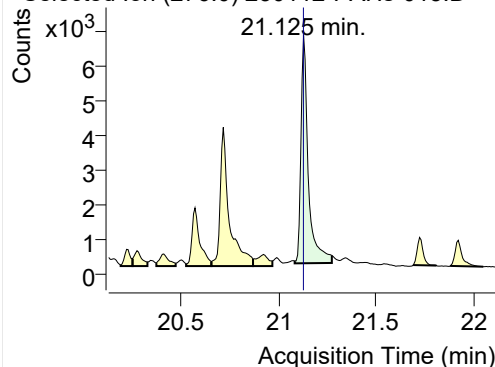
278.0, 139.0, 279.0



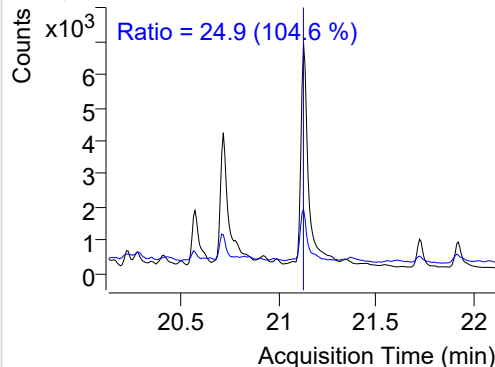
+ SIM (20.751-20.812 min, 9 scans) (**) 23011

**Benzo(g,h,i)perylene**

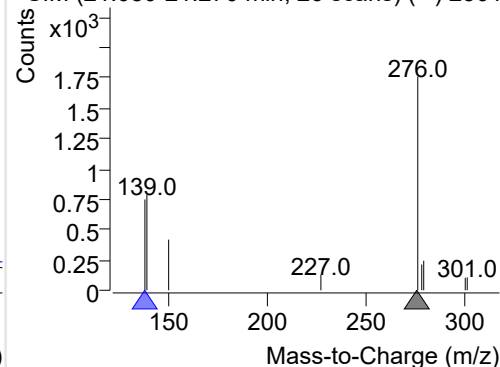
+ Selected Ion (276.0) 230112-PAHs-015.D



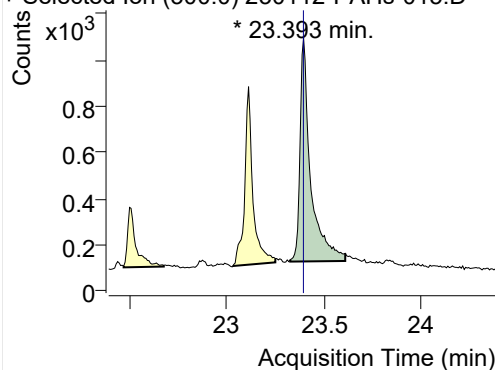
276.0, 138.0



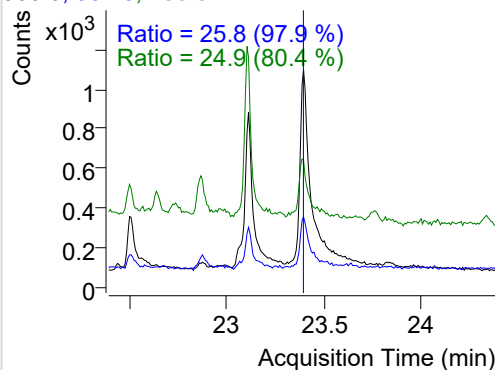
+ SIM (21.080-21.270 min, 26 scans) (**) 2301

**Coronene**

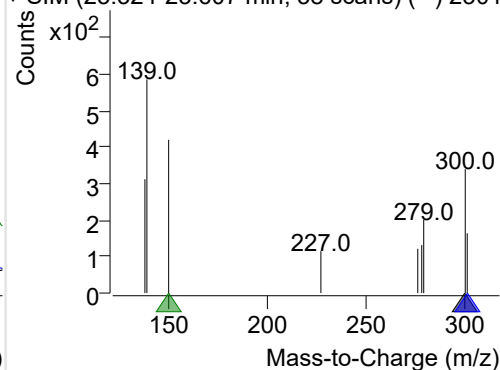
+ Selected Ion (300.0) 230112-PAHs-015.D



300.0, 301.0, 150.0



+ SIM (23.324-23.607 min, 38 scans) (**) 2301



Quantitative Analysis Sample Based Report

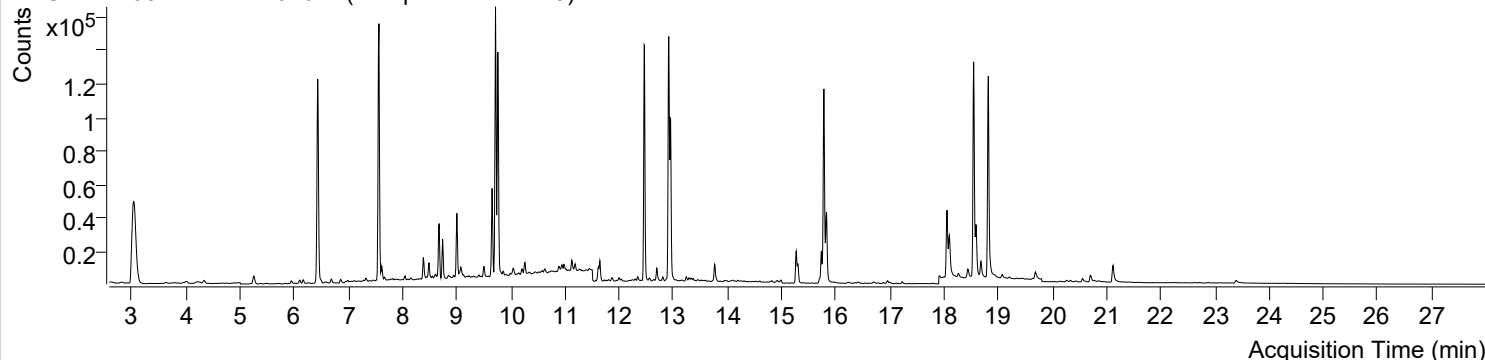


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 7:31:42	Data File	230112-PAHs-016.D
Type	Sample	Name	Sample-PM-221219
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

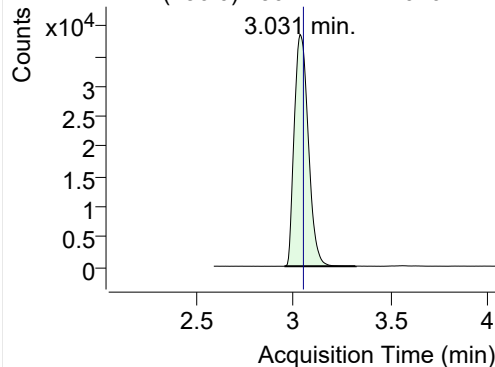
+ TIC SIM 230112-PAHs-016.D (Sample-PM-221219)



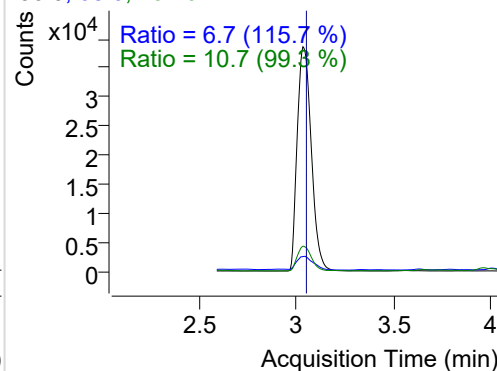
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	193971	38524.89	ND ng/ml	10.7
Naphthalene	3.063	128.0	20923	4169.00	ND ng/ml	11.6
Acenaphthylene	6.102	152.0	3503	1571.81	ND ng/ml	17.3
IS-D10-Acenaphthene	6.433	164.0	116937	58779.84	ND ng/ml	94.0
Acenaphthene	6.493	154.0	916	375.34	ND ng/ml	111.3
LSS-D10-Fluorene	7.564	176.0	124698	71280.31	ND ng/ml	90.7
Fluorene	7.617	166.0	6528	3620.62	ND ng/ml	98.7
IS-D10-Phenanthrene	9.717	188.0	200600	129007.04	ND ng/ml	15.1
Phenanthrene	9.759	178.0	141263	86322.54	ND ng/ml	18.3
Anthracene	9.853	178.0	2225	1250.73	ND ng/ml	
Fluoranthene	12.467	202.0	174489	108199.07	ND ng/ml	17.9
LSS-D10-Pyrene	12.916	212.0	178462	107562.76	ND ng/ml	17.8
Pyrene	12.949	202.0	119330	71724.22	ND ng/ml	19.7
Benz(a)anthracene	15.735	228.0	24279	12945.00	ND ng/ml	27.1
IS-D12-Chrysene	15.779	240.0	154692	86346.89	ND ng/ml	18.5
Chrysene	15.827	228.0	55681	27053.96	ND ng/ml	28.3
Benzo(b)fluoranthene	18.053	252.0	43037	23640.97	ND ng/ml	21.7
Benzo(k)fluoranthene	18.096	252.0	36366	14319.09	ND ng/ml	22.5
SS-D12-Benzo(e)pyrene	18.544	264.0	162241	87202.49	ND ng/ml	24.6
Benzo(e)pyrene	18.587	252.0	30267	15178.61	ND ng/ml	22.1
Benzo(a)pyrene	18.680	252.0	11777	5093.52	ND ng/ml	22.2
IS-D12-Perylene	18.815	264.0	146285	81642.16	ND ng/ml	24.6
Perylene	18.858	252.0	2089	944.96	ND ng/ml	41.0
Indeno(1,2,3-c,d)pyrene	20.705	276.0	11371	3322.50	ND ng/ml	19.3
Dibenz(a,h)anthracene	20.774	278.0	988	317.93	ND ng/ml	23.1
Benzo(g,h,i)perylene	21.118	276.0	22415	7909.86	ND ng/ml	22.0
Coronene	23.393	300.0	4086	1021.54	ND ng/ml	27.2

IS-D8-Naphthalene

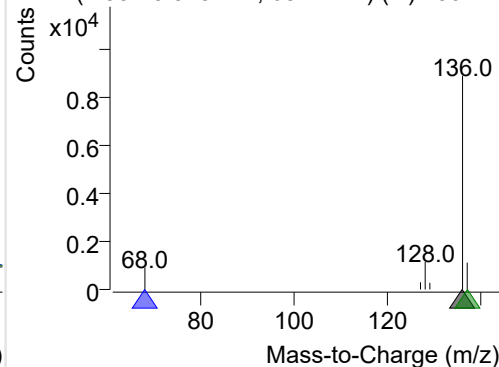
+ Selected Ion (136.0) 230112-PAHs-016.D



136.0, 68.0, 137.0

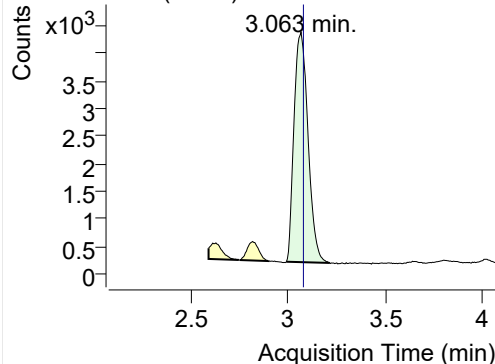


+ SIM (2.951-3.318 min, 68 scans) (**) 230112

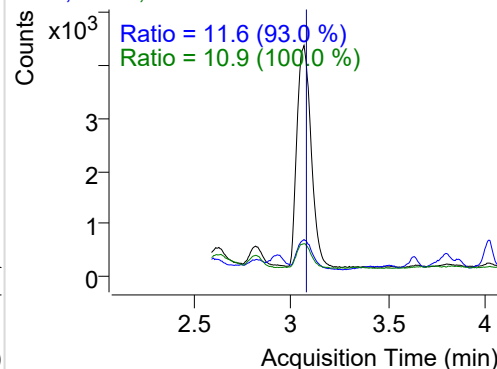


Naphthalene

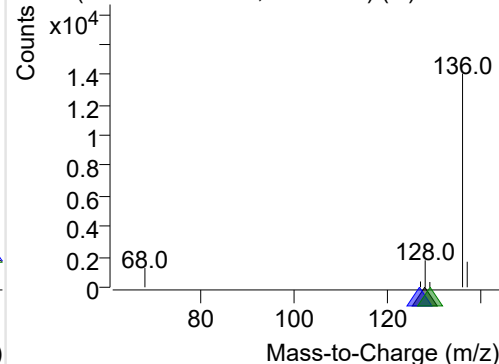
+ Selected Ion (128.0) 230112-PAHs-016.D



128.0, 127.0, 129.0

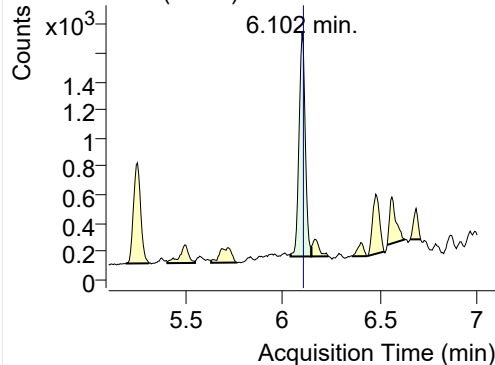


+ SIM (2.988-3.212 min, 41 scans) (**) 230112

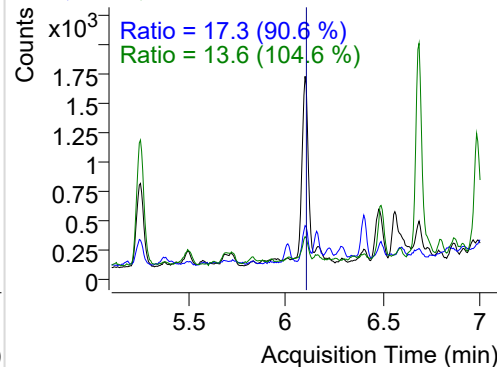


Acenaphthylene

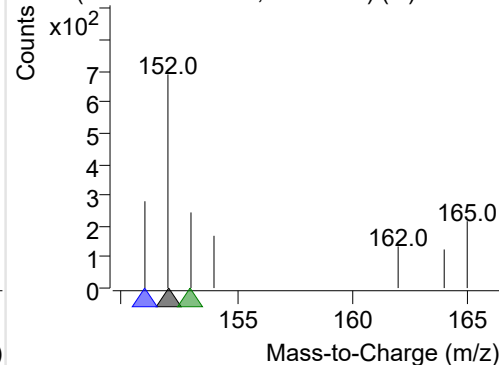
+ Selected Ion (152.0) 230112-PAHs-016.D



152.0, 151.0, 153.0

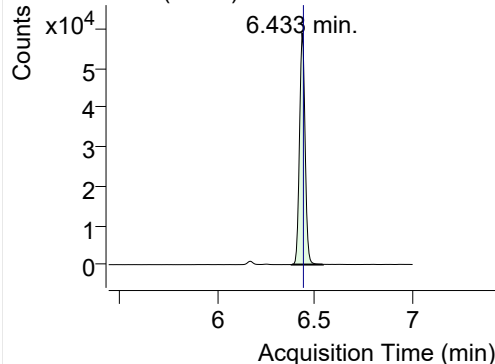


+ SIM (6.043-6.149 min, 19 scans) (**) 230112

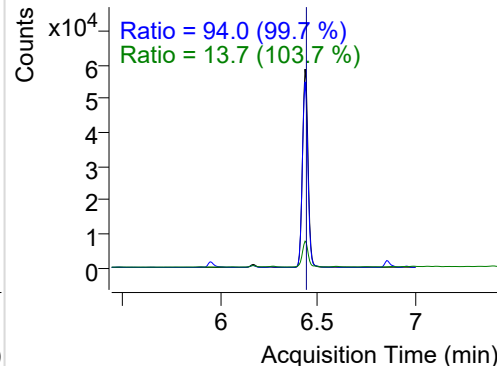


IS-D10-Acenaphthene

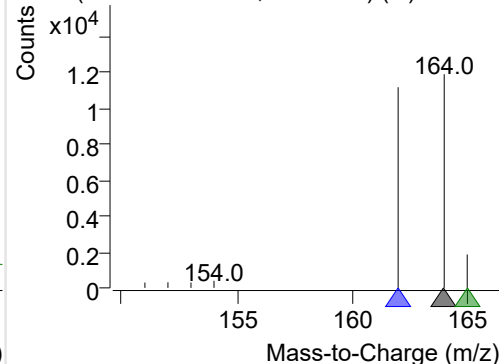
+ Selected Ion (164.0) 230112-PAHs-016.D



164.0, 162.0, 165.0

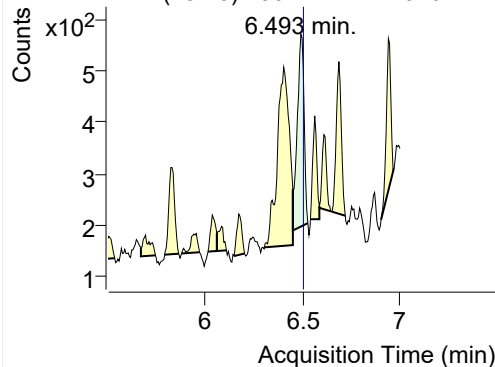


+ SIM (6.380-6.540 min, 28 scans) (**) 230112

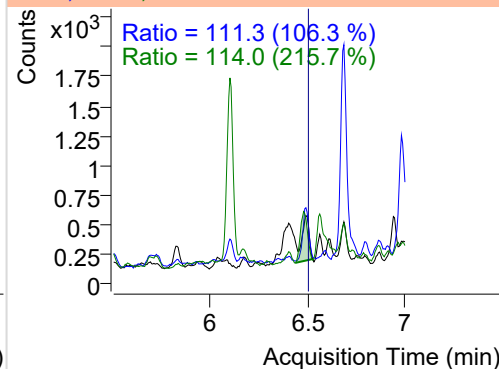


Acenaphthene

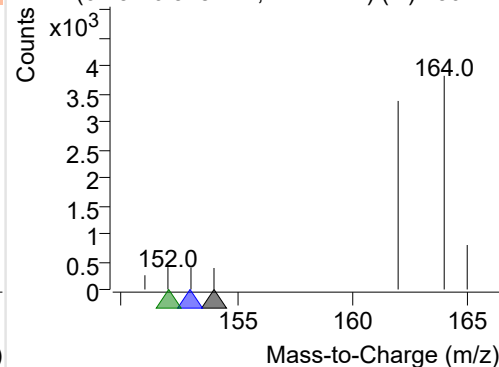
+ Selected Ion (154.0) 230112-PAHs-016.D



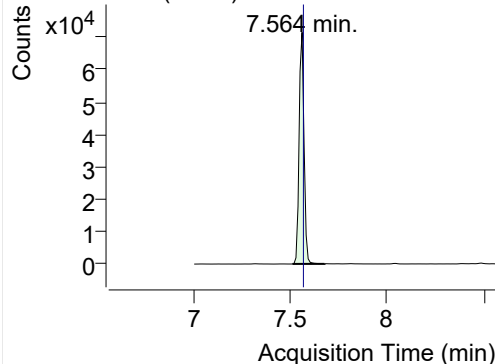
154.0, 153.0, 152.0



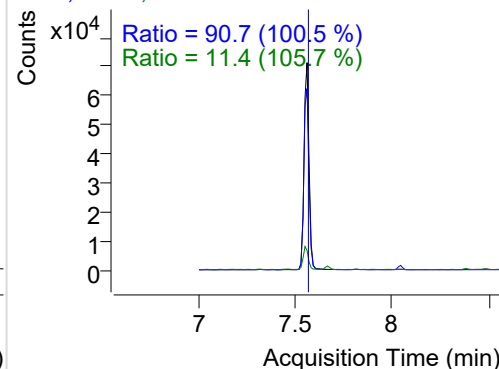
+ SIM (6.451-6.528 min, 14 scans) (**) 230112

**LSS-D10-Fluorene**

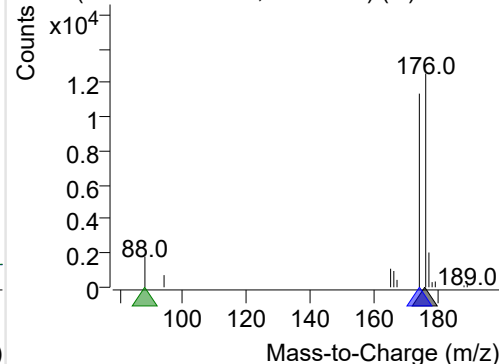
+ Selected Ion (176.0) 230112-PAHs-016.D



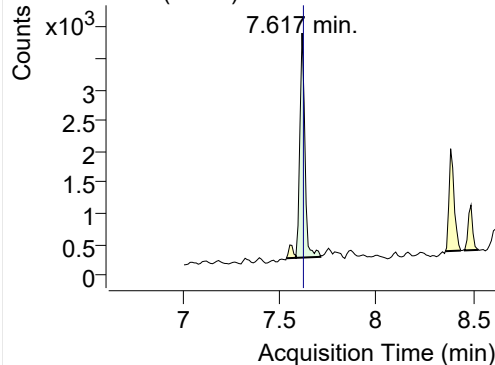
176.0, 174.0, 88.0



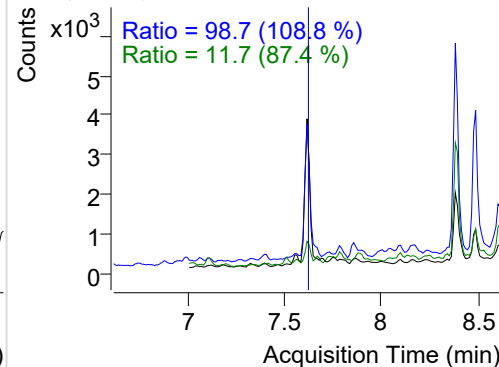
+ SIM (7.515-7.680 min, 16 scans) (**) 230112

**Fluorene**

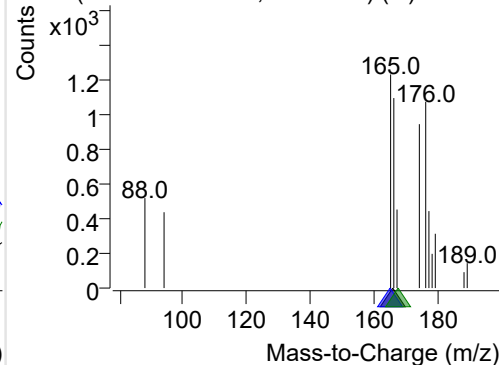
+ Selected Ion (166.0) 230112-PAHs-016.D



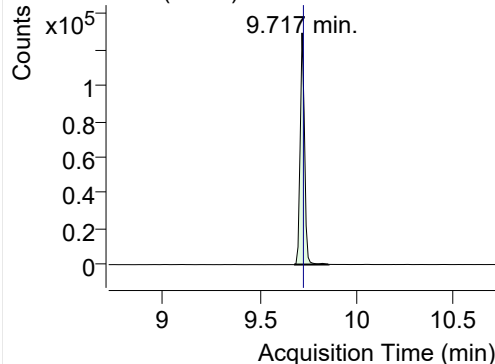
166.0, 165.0, 167.0



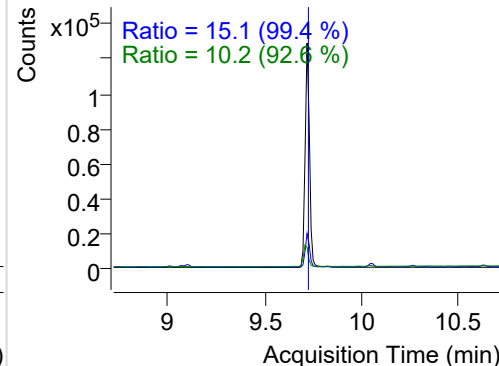
+ SIM (7.585-7.711 min, 13 scans) (**) 230112

**IS-D10-Phenanthrene**

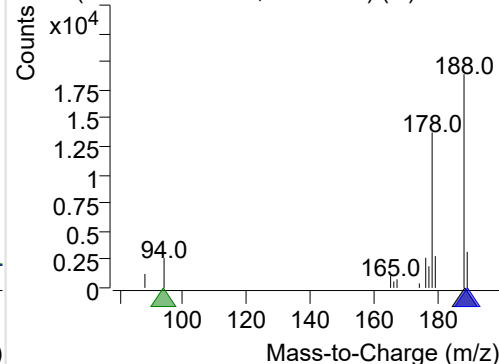
+ Selected Ion (188.0) 230112-PAHs-016.D



188.0, 189.0, 94.0

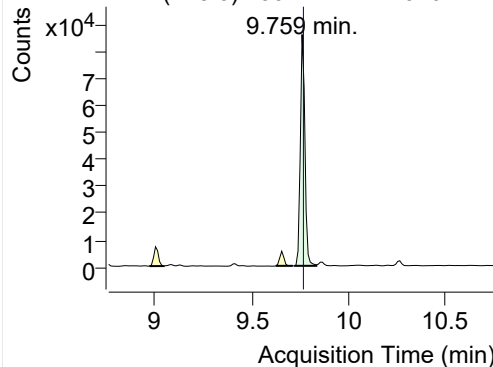


+ SIM (9.676-9.853 min, 17 scans) (**) 230112

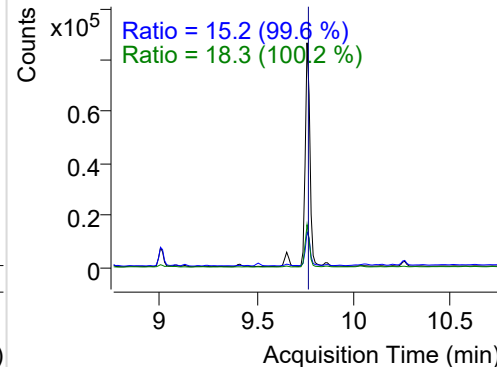


Phenanthrene

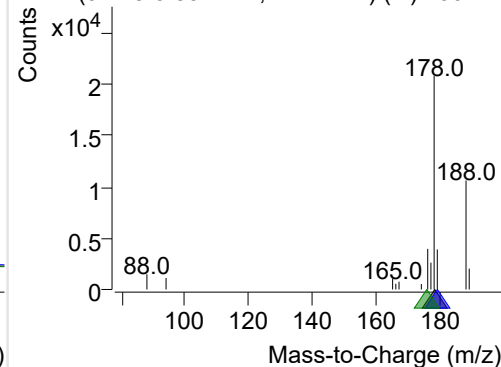
+ Selected Ion (178.0) 230112-PAHs-016.D



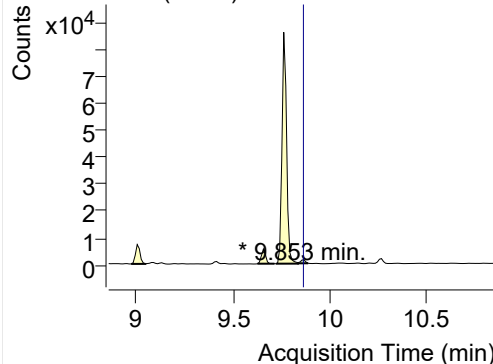
178.0, 179.0, 176.0



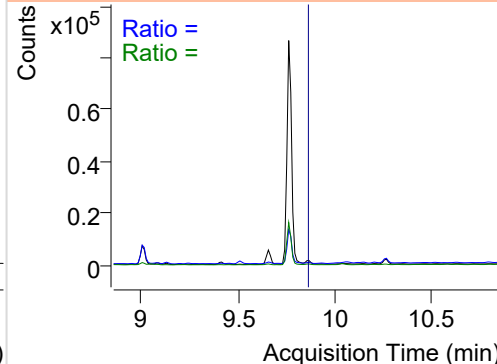
+ SIM (9.718-9.832 min, 11 scans) (**) 230112

**Anthracene**

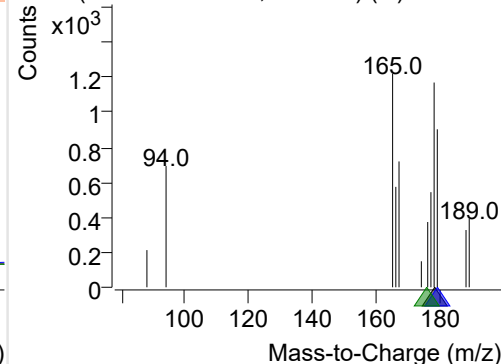
+ Selected Ion (178.0) 230112-PAHs-016.D



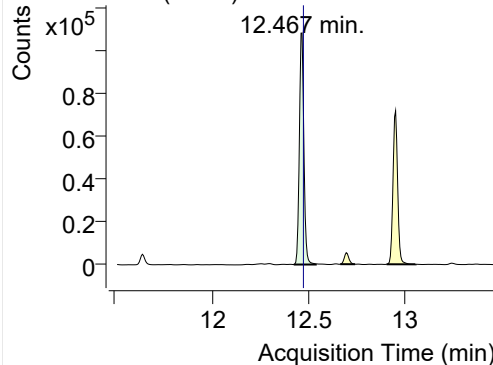
178.0, 179.0, 176.0



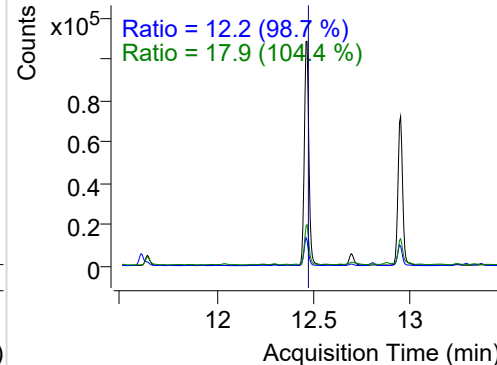
+ SIM (9.832-9.885 min, 6 scans) (**) 230112-I

**Fluoranthene**

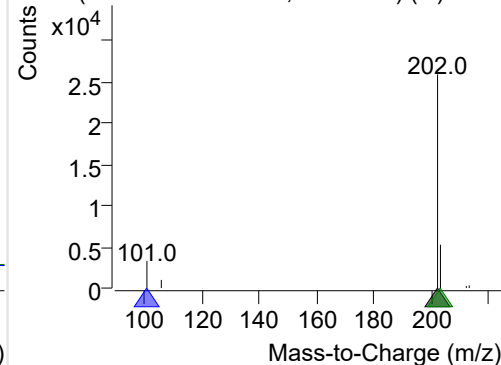
+ Selected Ion (202.0) 230112-PAHs-016.D



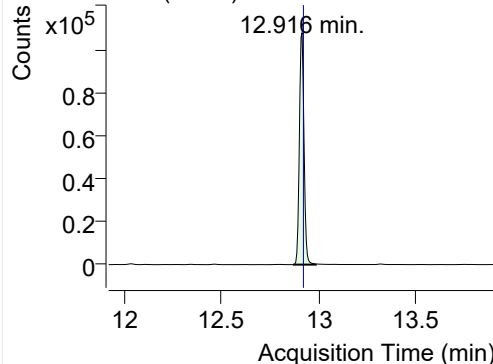
202.0, 101.0, 203.0



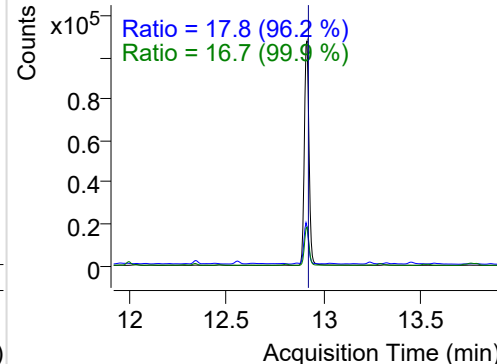
+ SIM (12.424-12.537 min, 21 scans) (**) 2301

**LSS-D10-Pyrene**

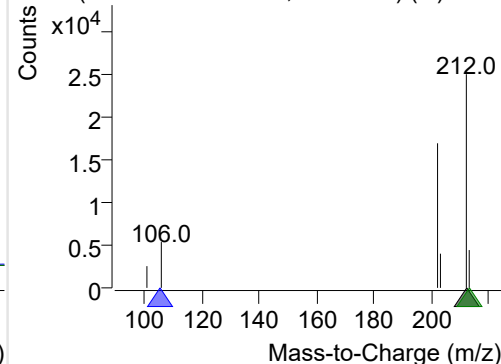
+ Selected Ion (212.0) 230112-PAHs-016.D



212.0, 106.0, 213.0

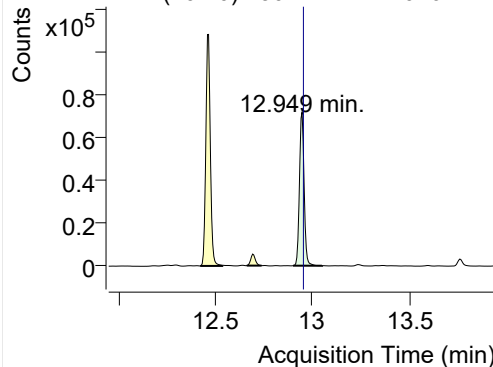


+ SIM (12.869-12.987 min, 22 scans) (**) 2301

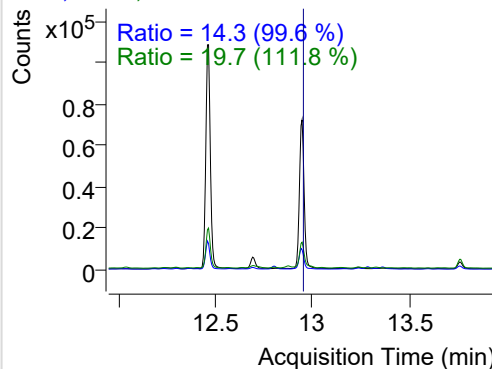


Pyrene

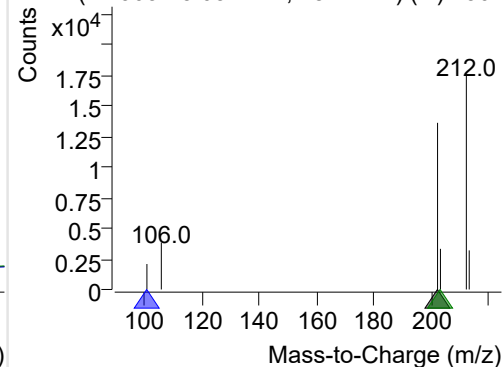
+ Selected Ion (202.0) 230112-PAHs-016.D



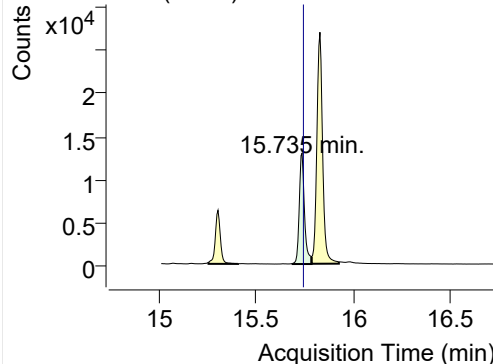
202.0, 101.0, 203.0



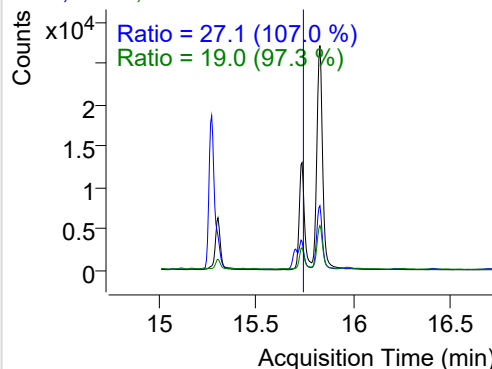
+ SIM (12.903-13.052 min, 28 scans) (**) 2301

**Benz(a)anthracene**

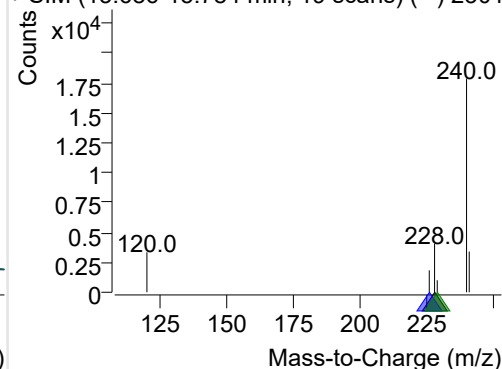
+ Selected Ion (228.0) 230112-PAHs-016.D



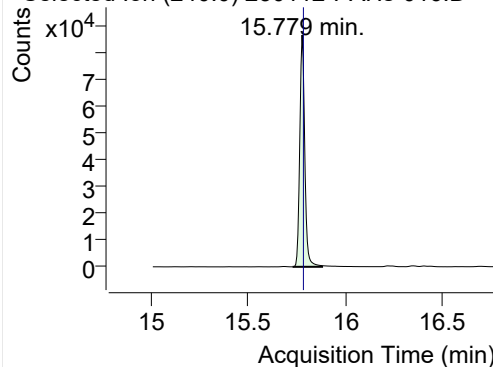
228.0, 226.0, 229.0



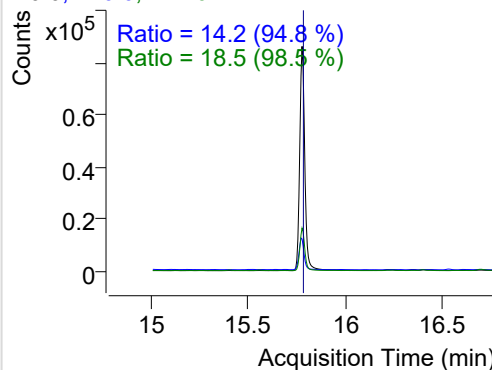
+ SIM (15.686-15.784 min, 19 scans) (**) 2301

**IS-D12-Chrysene**

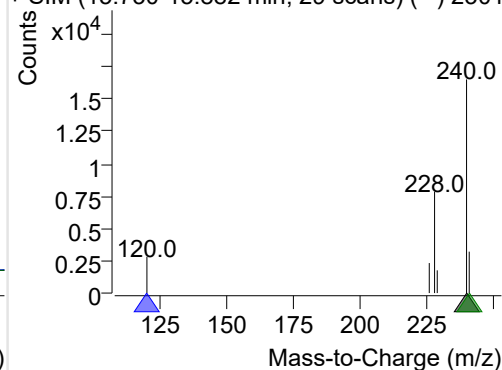
+ Selected Ion (240.0) 230112-PAHs-016.D



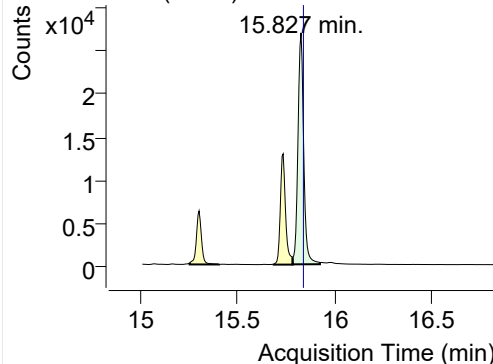
240.0, 120.0, 241.0



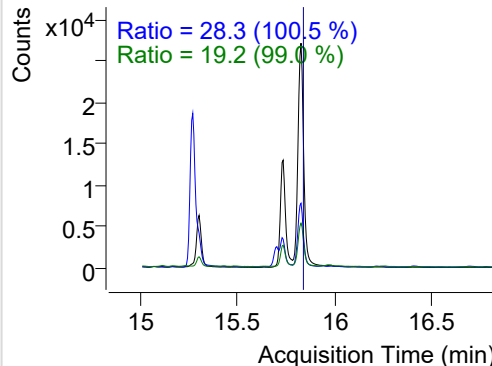
+ SIM (15.730-15.882 min, 29 scans) (**) 2301

**Chrysene**

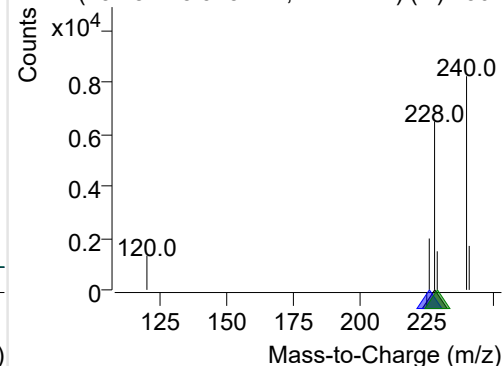
+ Selected Ion (228.0) 230112-PAHs-016.D



228.0, 226.0, 229.0

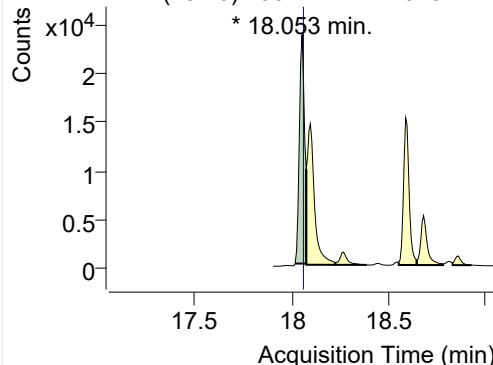


+ SIM (15.784-15.925 min, 27 scans) (**) 2301

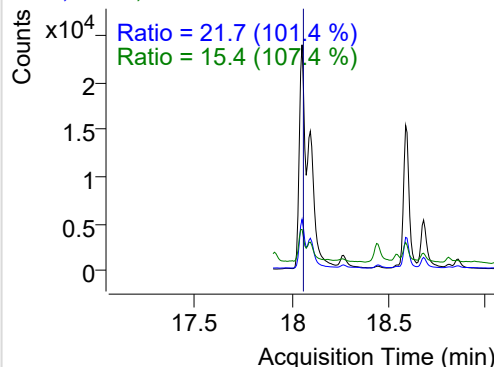


Benzo(b)fluoranthene

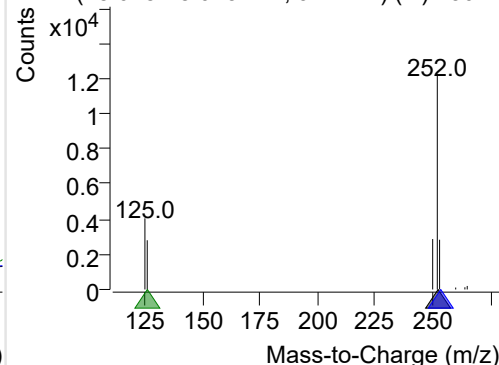
+ Selected Ion (252.0) 230112-PAHs-016.D



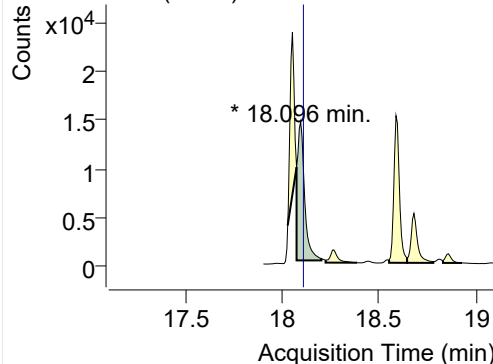
252.0, 253.0, 126.0



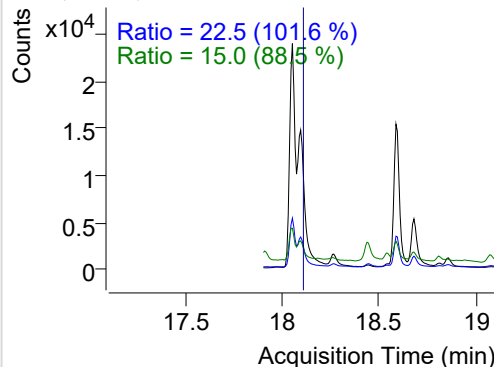
+ SIM (18.018-18.075 min, 9 scans) (**) 23011

**Benzo(k)fluoranthene**

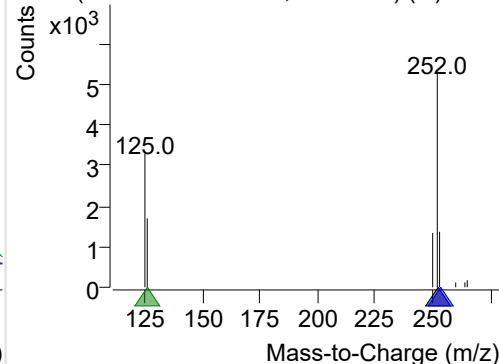
+ Selected Ion (252.0) 230112-PAHs-016.D



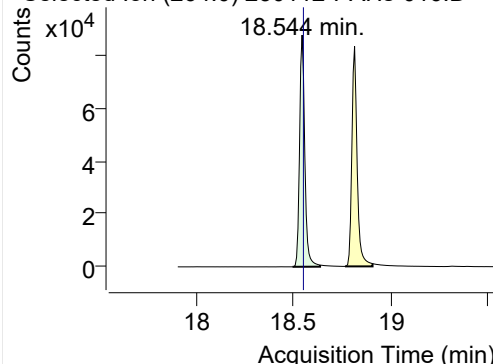
252.0, 253.0, 126.0



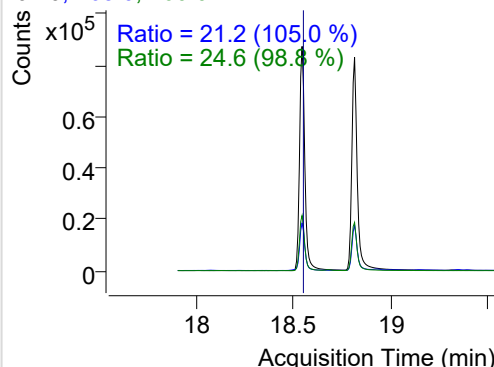
+ SIM (18.075-18.203 min, 19 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

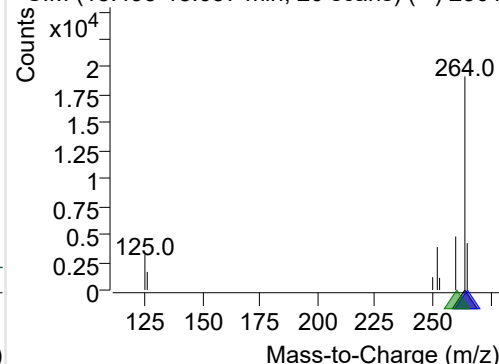
+ Selected Ion (264.0) 230112-PAHs-016.D



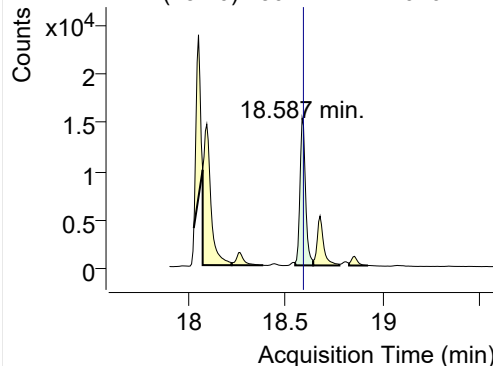
264.0, 265.0, 260.0



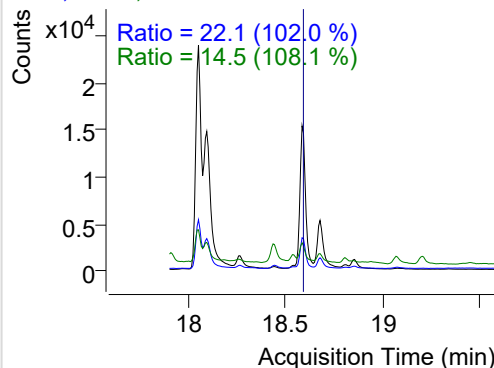
+ SIM (18.495-18.637 min, 20 scans) (**) 2301

**Benzo(e)pyrene**

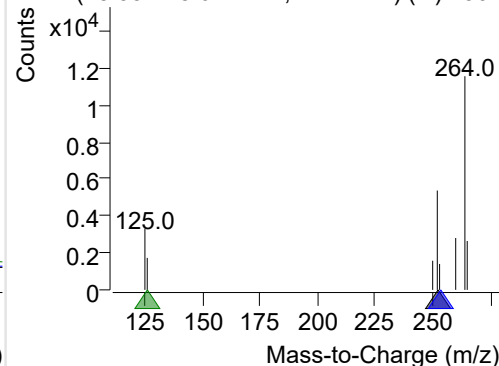
+ Selected Ion (252.0) 230112-PAHs-016.D



252.0, 253.0, 126.0

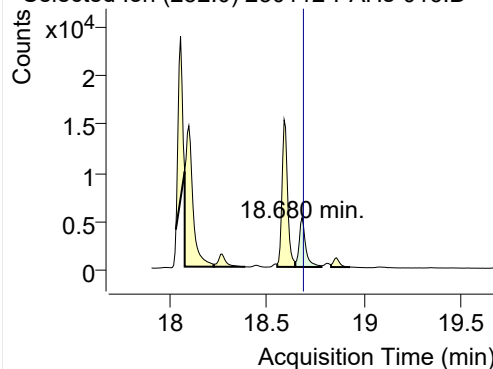


+ SIM (18.552-18.644 min, 14 scans) (**) 2301

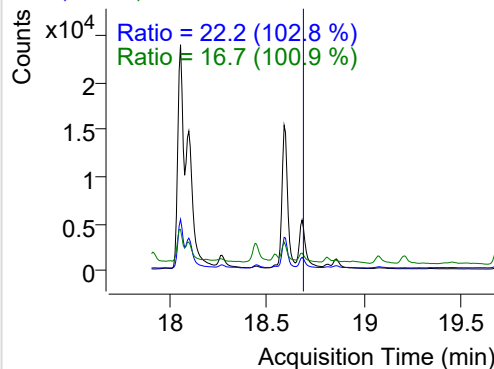


Benzo(a)pyrene

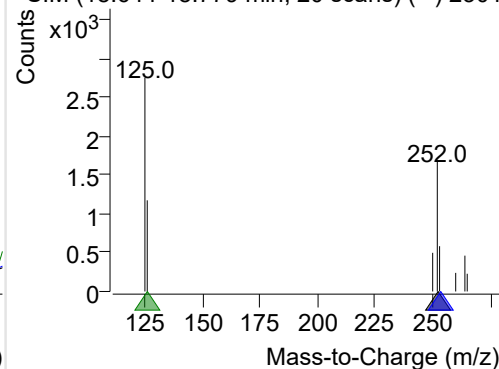
+ Selected Ion (252.0) 230112-PAHs-016.D



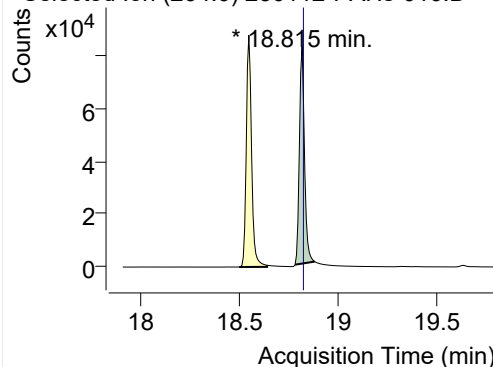
252.0, 253.0, 126.0



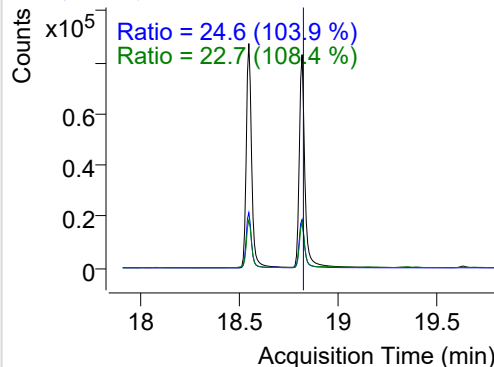
+ SIM (18.644-18.779 min, 20 scans) (**) 2301

**IS-D12-Perylene**

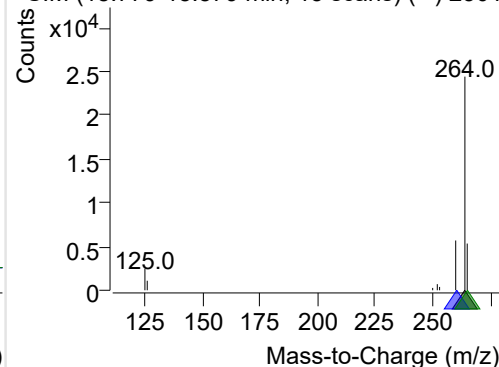
+ Selected Ion (264.0) 230112-PAHs-016.D



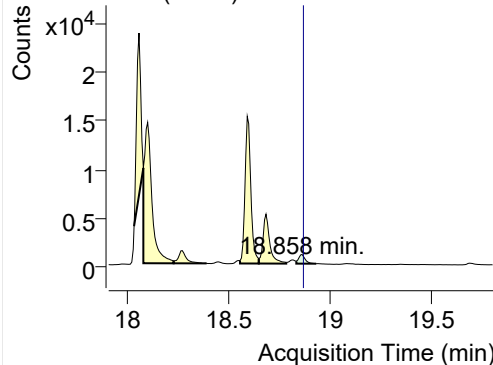
264.0, 260.0, 265.0



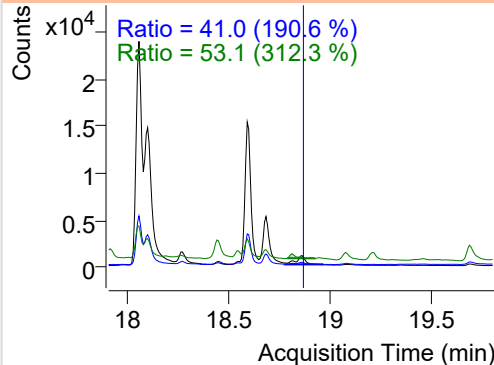
+ SIM (18.779-18.879 min, 15 scans) (**) 2301

**Perylene**

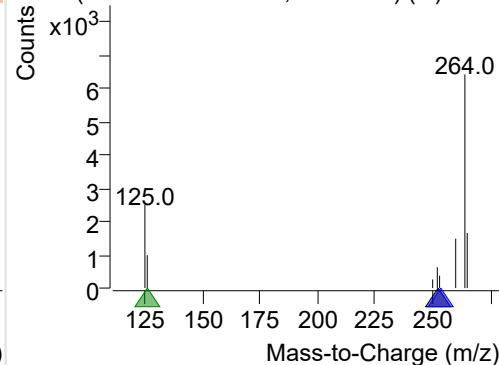
+ Selected Ion (252.0) 230112-PAHs-016.D



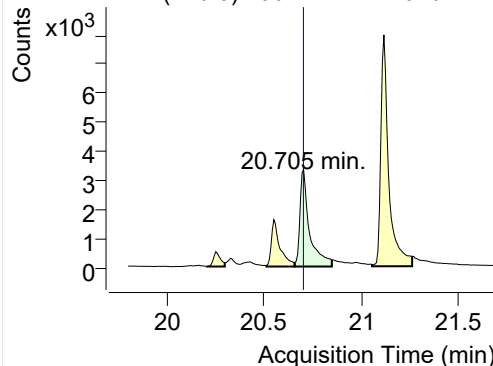
252.0, 253.0, 126.0



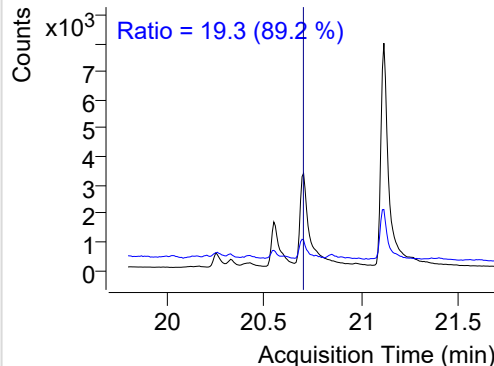
+ SIM (18.829-18.927 min, 14 scans) (**) 2301

**Indeno(1,2,3-c,d)pyrene**

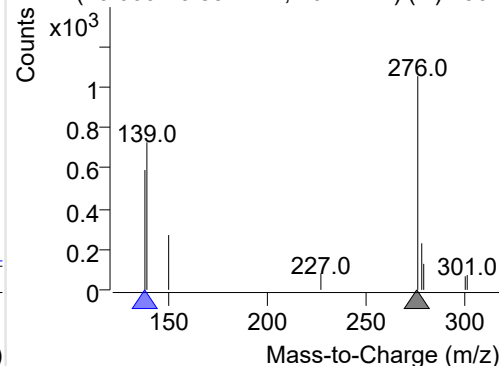
+ Selected Ion (276.0) 230112-PAHs-016.D



276.0, 138.0



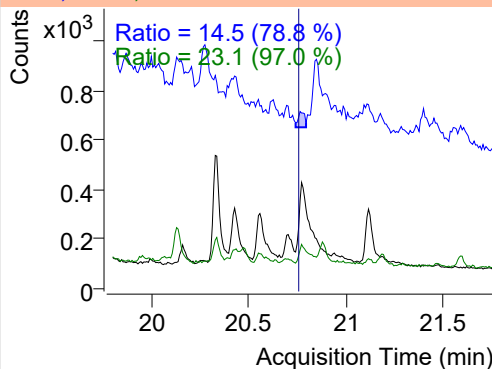
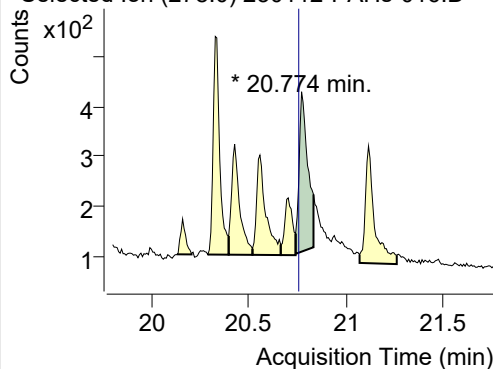
+ SIM (20.660-20.851 min, 26 scans) (**) 2301



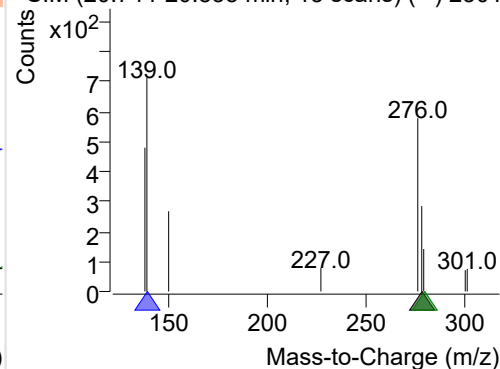
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-016.D

278.0, 139.0, 279.0

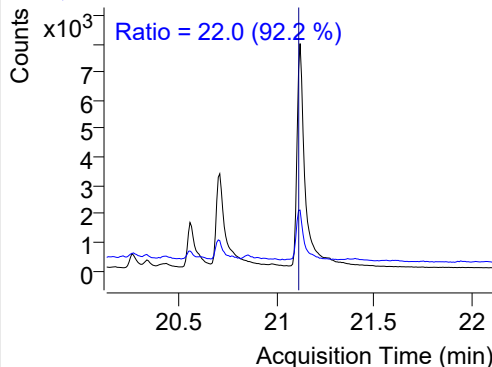
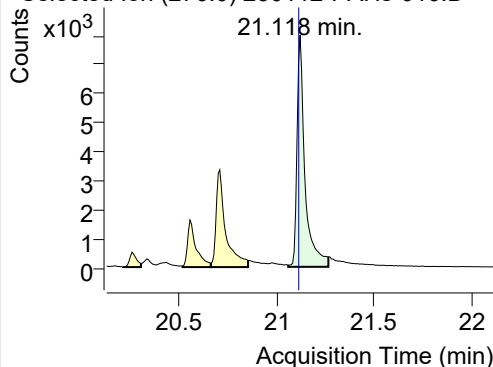


+ SIM (20.744-20.835 min, 13 scans) (**) 2301

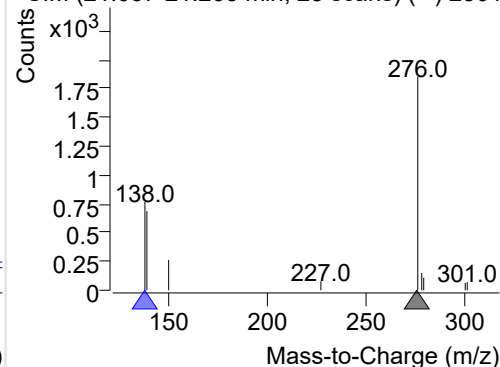
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 230112-PAHs-016.D

276.0, 138.0

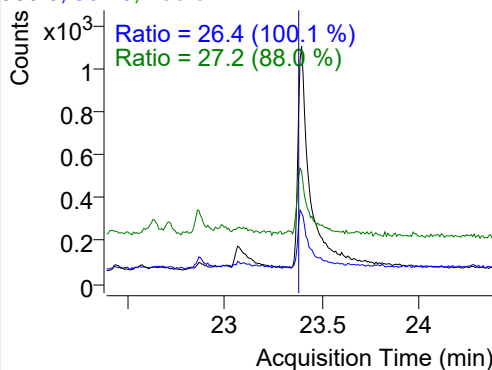
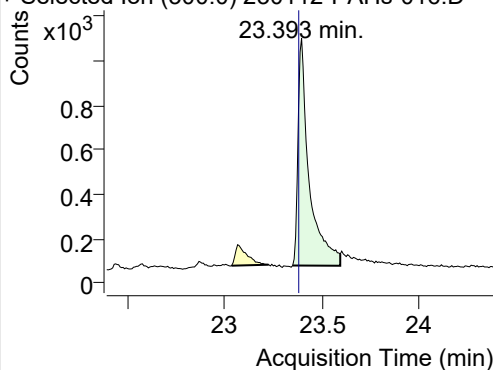


+ SIM (21.057-21.263 min, 28 scans) (**) 2301

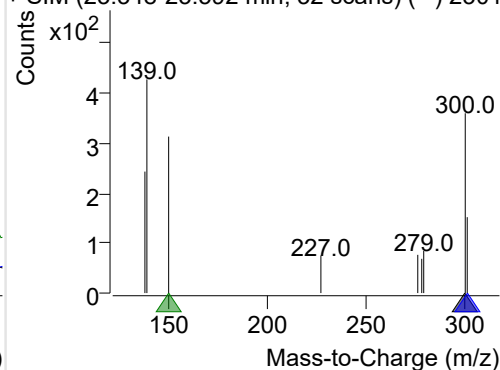
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-016.D

300.0, 301.0, 150.0



+ SIM (23.348-23.592 min, 32 scans) (**) 2301



Quantitative Analysis Sample Based Report

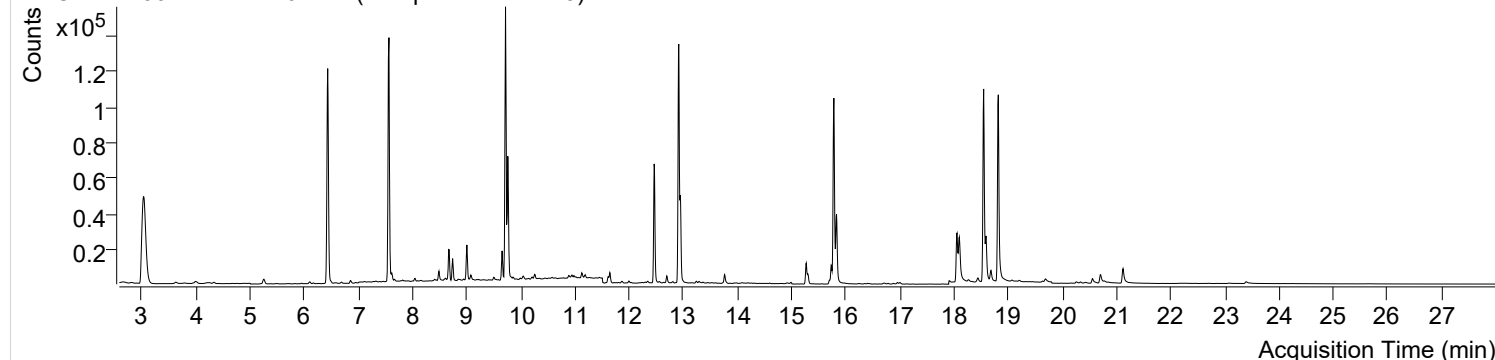


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 8:02:59	Data File	230112-PAHs-017.D
Type	Sample	Name	Sample-PM-221225
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

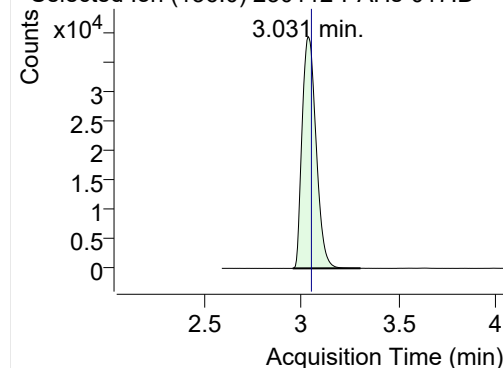
+ TIC SIM 230112-PAHs-017.D (Sample-PM-221225)



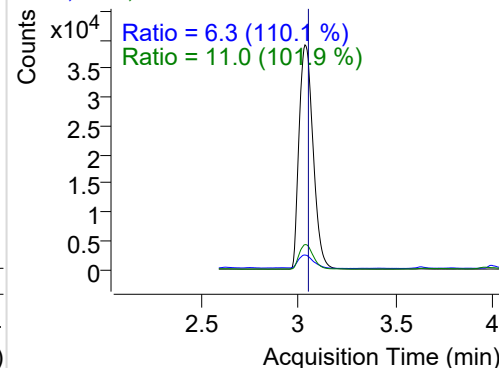
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	195533	39061.35	ND ng/ml	11.0
Naphthalene	3.058	128.0	16789	3336.29	ND ng/ml	11.4
Acenaphthylene	6.102	152.0	1791	818.56	ND ng/ml	12.8
IS-D10-Acenaphthene	6.434	164.0	115184	58521.28	ND ng/ml	93.8
Acenaphthene	6.493	154.0	436	204.19	ND ng/ml	108.0
LSS-D10-Fluorene	7.564	176.0	114222	64260.15	ND ng/ml	90.5
Fluorene	7.617	166.0	3336	1797.54	ND ng/ml	97.6
IS-D10-Phenanthrene	9.717	188.0	197232	123148.35	ND ng/ml	15.1
Phenanthrene	9.759	178.0	71660	44146.48	ND ng/ml	18.4
Anthracene	9.854	178.0	759	465.60	ND ng/ml	
Fluoranthene	12.461	202.0	86879	51347.84	ND ng/ml	17.3
LSS-D10-Pyrene	12.917	212.0	162966	99451.10	ND ng/ml	17.7
Pyrene	12.944	202.0	56527	33498.00	ND ng/ml	17.5
Benz(a)anthracene	15.730	228.0	13905	7237.50	ND ng/ml	28.9
IS-D12-Chrysene	15.779	240.0	144858	78056.29	ND ng/ml	18.9
Chrysene	15.827	228.0	51618	24975.99	ND ng/ml	27.8
Benzo(b)fluoranthene	18.053	252.0	32557	16355.44	ND ng/ml	21.4
Benzo(k)fluoranthene	18.096	252.0	39075	14624.22	ND ng/ml	22.1
SS-D12-Benzo(e)pyrene	18.545	264.0	138795	73642.04	ND ng/ml	24.8
Benzo(e)pyrene	18.587	252.0	23829	11934.46	ND ng/ml	21.8
Benzo(a)pyrene	18.680	252.0	8441	3340.22	ND ng/ml	22.0
IS-D12-Perylene	18.815	264.0	134126	71291.54	ND ng/ml	24.6
Perylene	18.858	252.0	1163	587.02	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.706	276.0	14099	3894.00	ND ng/ml	18.2
Dibenz(a,h)anthracene	20.774	278.0	993	358.03	ND ng/ml	27.9
Benzo(g,h,i)perylene	21.118	276.0	17923	6359.60	ND ng/ml	23.0
Coronene	23.393	300.0	2887	657.26	ND ng/ml	28.2

IS-D8-Naphthalene

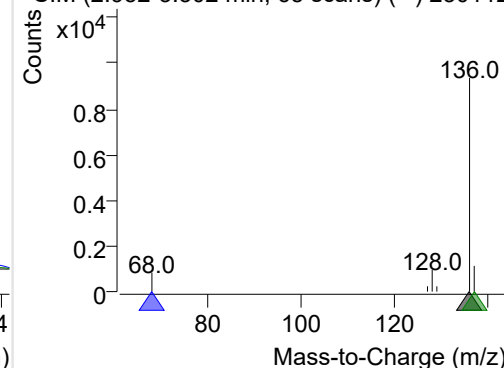
+ Selected Ion (136.0) 230112-PAHs-017.D



136.0, 68.0, 137.0

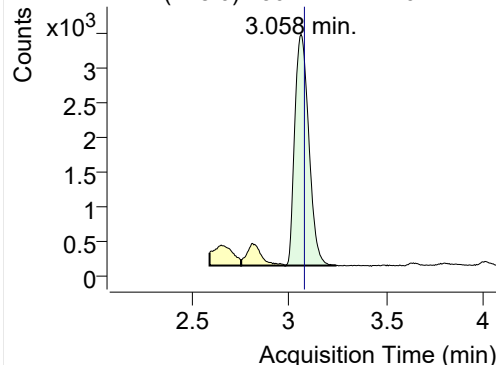


+ SIM (2.952-3.302 min, 65 scans) (**) 230112

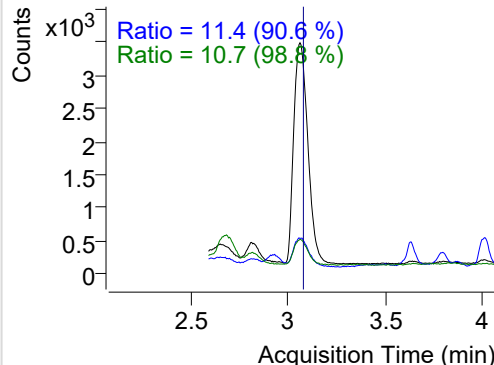


Naphthalene

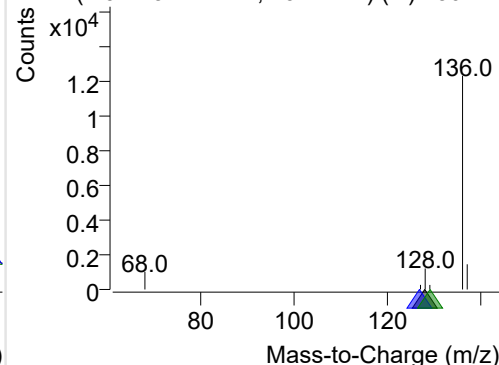
+ Selected Ion (128.0) 230112-PAHs-017.D



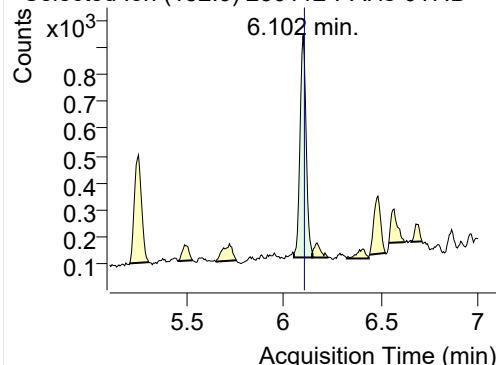
128.0, 127.0, 129.0



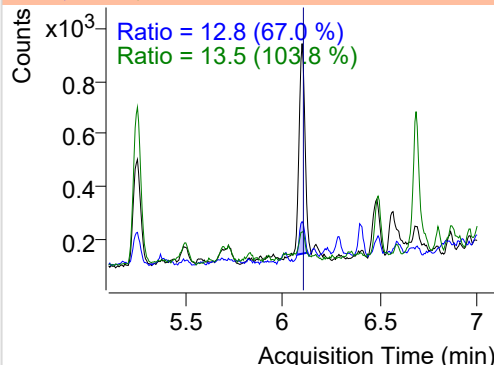
+ SIM (2.977-3.241 min, 49 scans) (**) 230112

**Acenaphthylene**

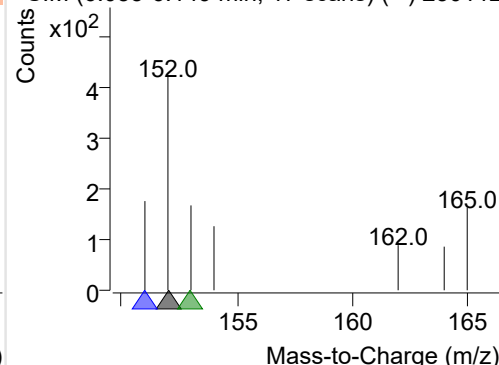
+ Selected Ion (152.0) 230112-PAHs-017.D



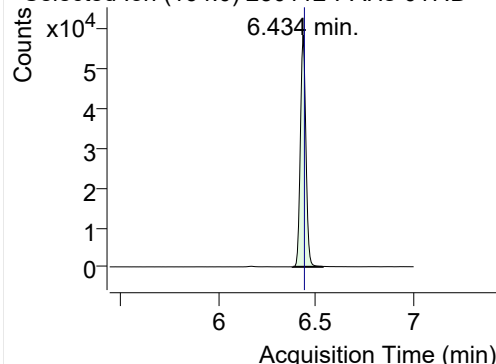
152.0, 151.0, 153.0



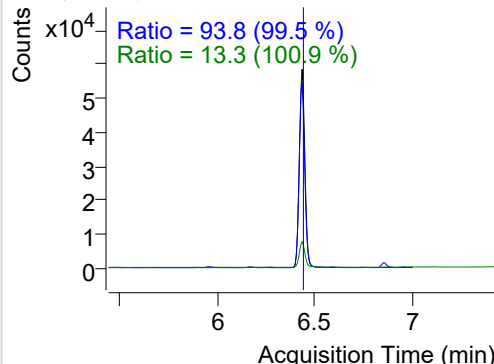
+ SIM (6.055-6.149 min, 17 scans) (**) 230112

**IS-D10-Acenaphthene**

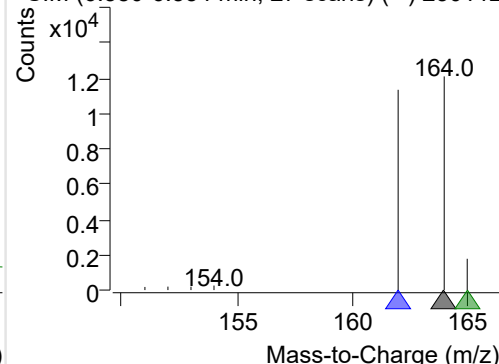
+ Selected Ion (164.0) 230112-PAHs-017.D



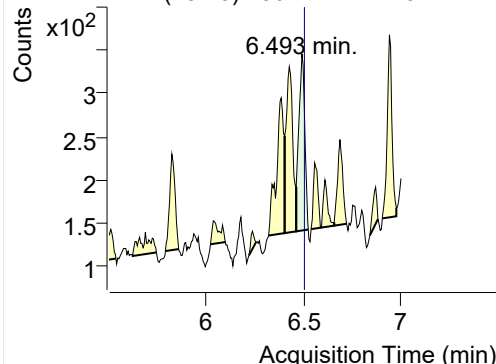
164.0, 162.0, 165.0



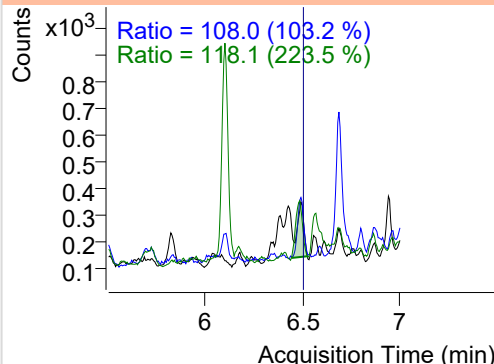
+ SIM (6.380-6.534 min, 27 scans) (**) 230112

**Acenaphthene**

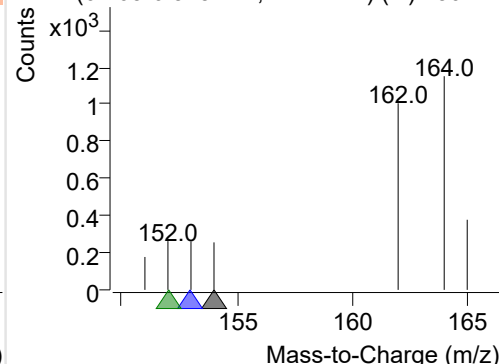
+ Selected Ion (154.0) 230112-PAHs-017.D



154.0, 153.0, 152.0

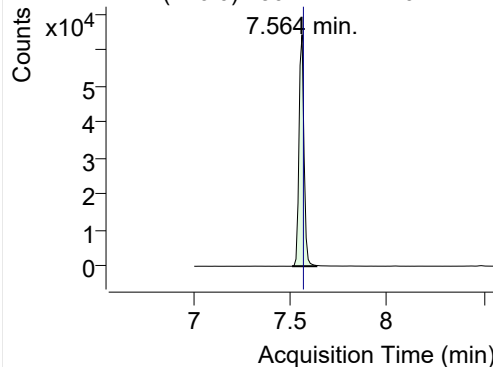


+ SIM (6.463-6.525 min, 11 scans) (**) 230112

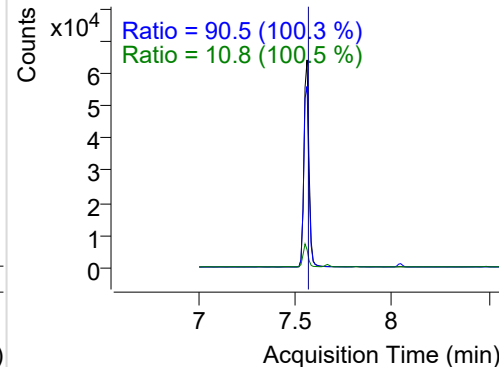


LSS-D10-Fluorene

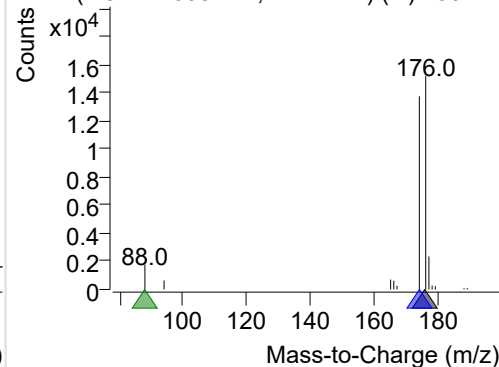
+ Selected Ion (176.0) 230112-PAHs-017.D



176.0, 174.0, 88.0

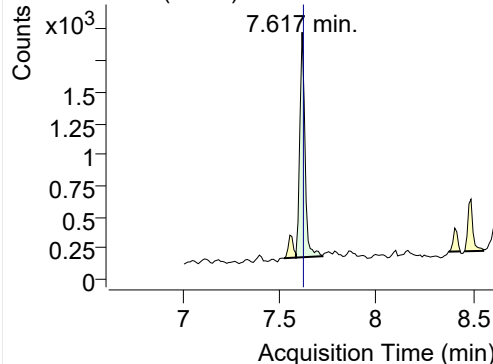


+ SIM (7.512-7.638 min, 12 scans) (**) 230112

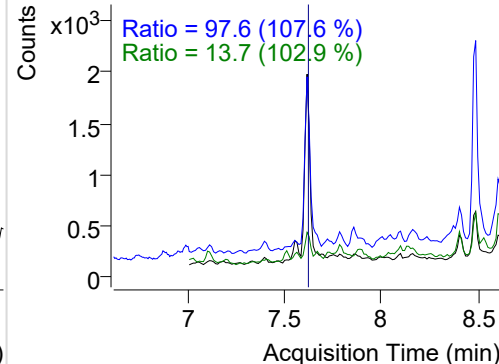


Fluorene

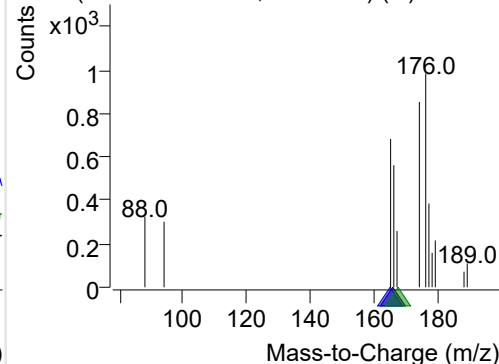
+ Selected Ion (166.0) 230112-PAHs-017.D



166.0, 165.0, 167.0

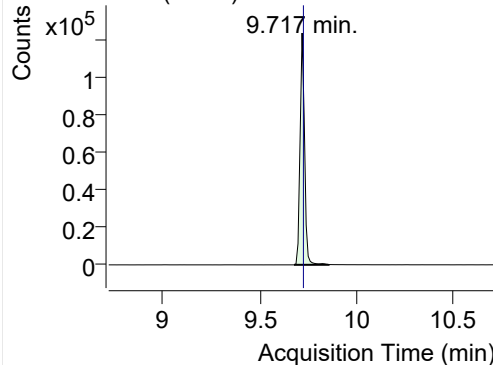


+ SIM (7.585-7.722 min, 14 scans) (**) 230112

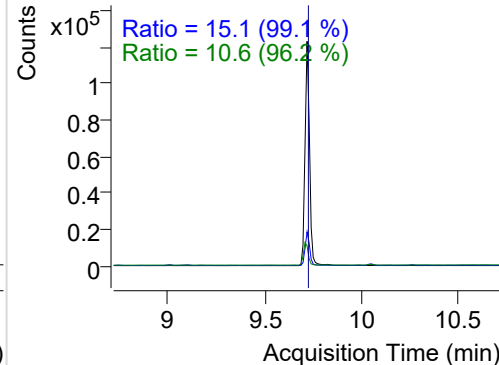


IS-D10-Phenanthrene

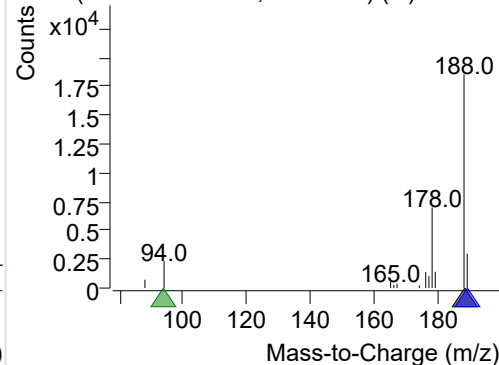
+ Selected Ion (188.0) 230112-PAHs-017.D



188.0, 189.0, 94.0

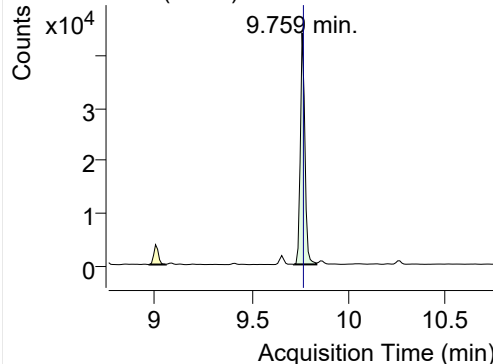


+ SIM (9.675-9.854 min, 17 scans) (**) 230112

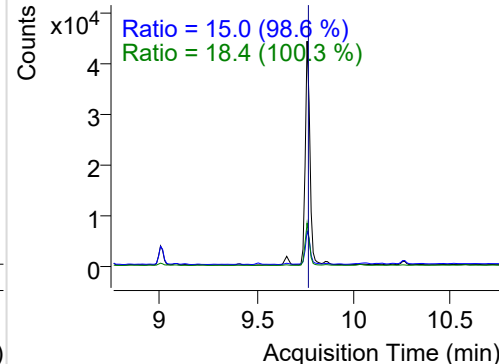


Phenanthrene

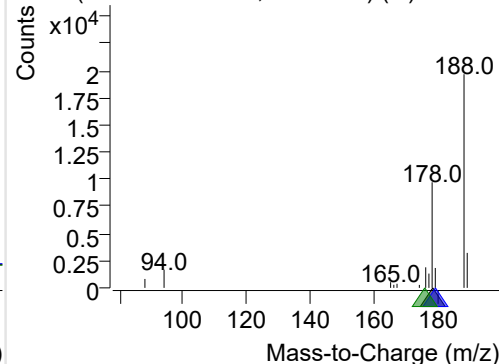
+ Selected Ion (178.0) 230112-PAHs-017.D



178.0, 179.0, 176.0

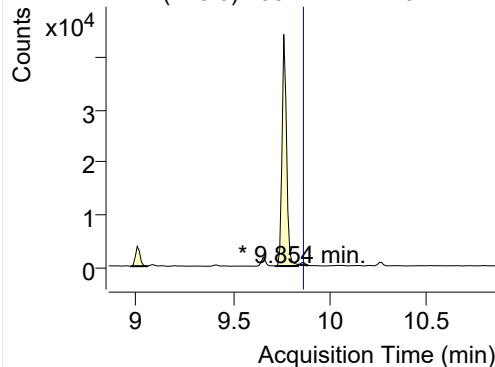


+ SIM (9.717-9.833 min, 12 scans) (**) 230112

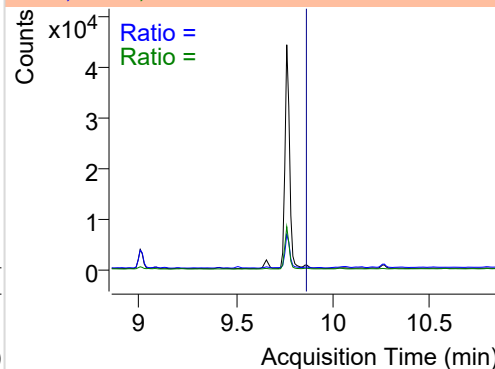


Anthracene

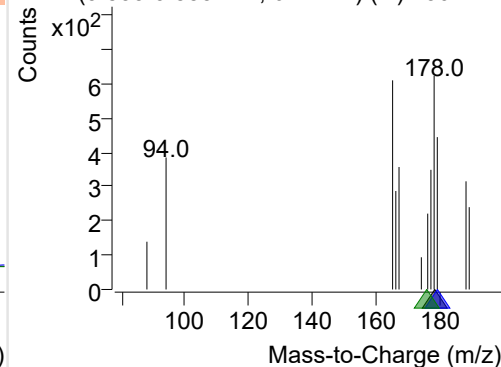
+ Selected Ion (178.0) 230112-PAHs-017.D



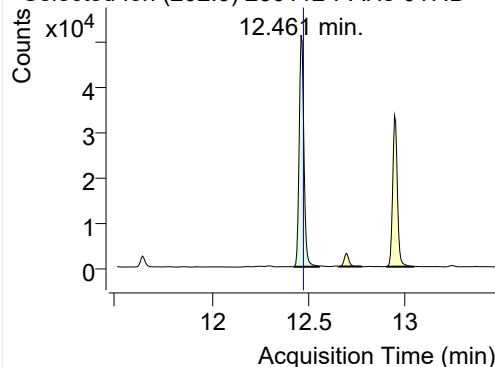
178.0, 179.0, 176.0



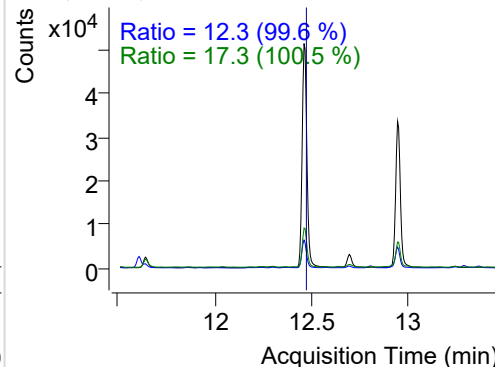
+ SIM (9.833-9.885 min, 6 scans) (**) 230112-I

**Fluoranthene**

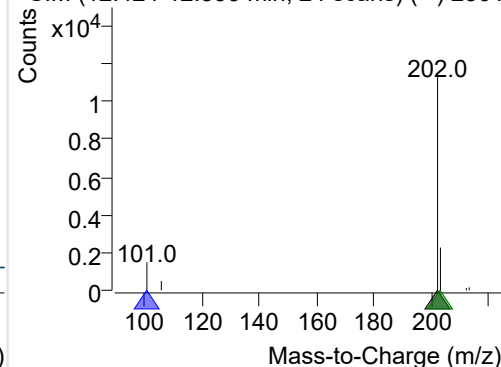
+ Selected Ion (202.0) 230112-PAHs-017.D



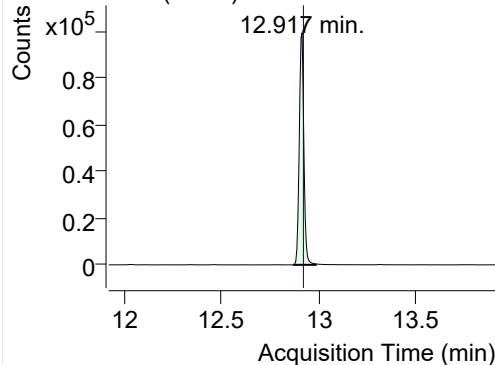
202.0, 101.0, 203.0



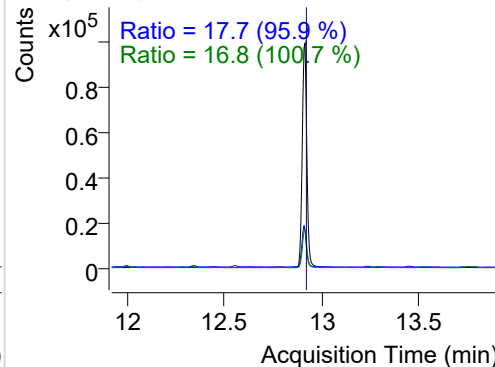
+ SIM (12.424-12.553 min, 24 scans) (**) 2301

**LSS-D10-Pyrene**

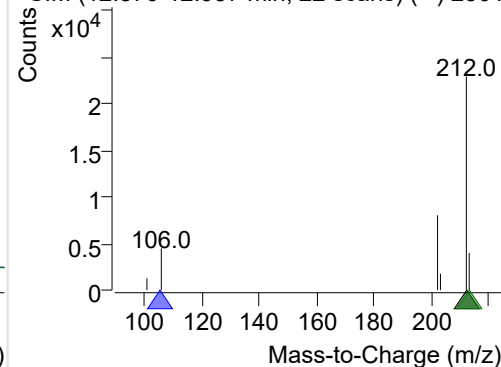
+ Selected Ion (212.0) 230112-PAHs-017.D



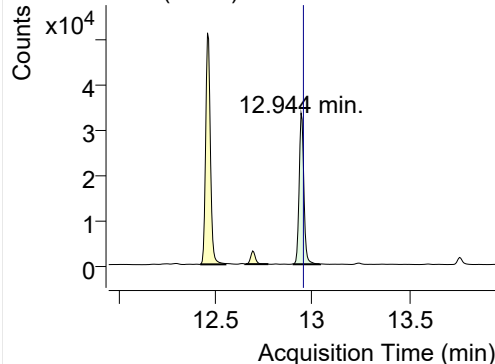
212.0, 106.0, 213.0



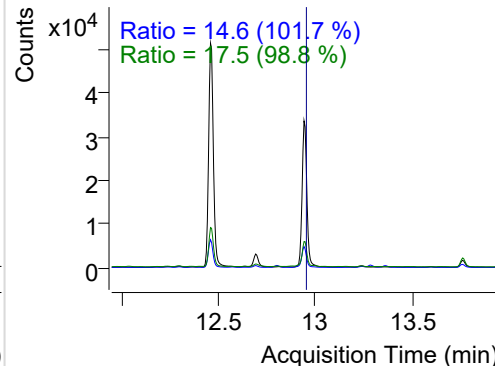
+ SIM (12.870-12.987 min, 22 scans) (**) 2301

**Pyrene**

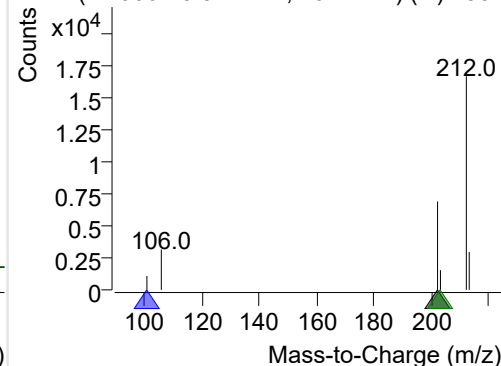
+ Selected Ion (202.0) 230112-PAHs-017.D



202.0, 101.0, 203.0

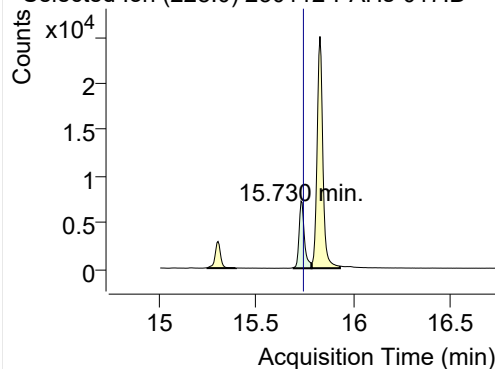


+ SIM (12.906-13.041 min, 26 scans) (**) 2301

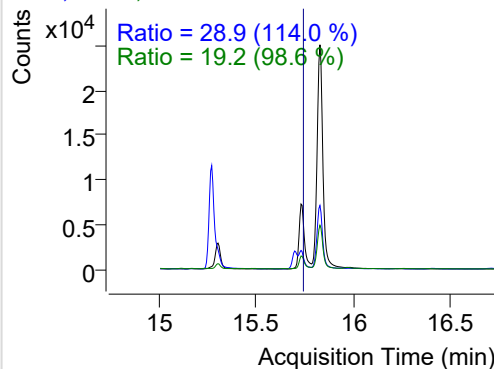


Benz(a)anthracene

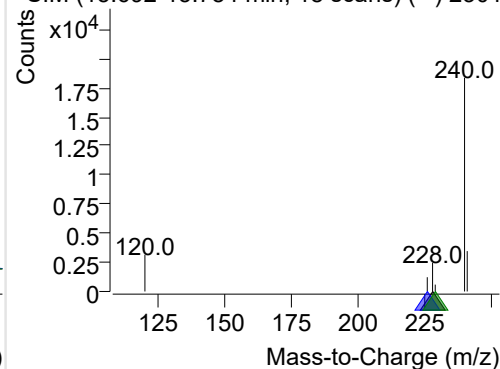
+ Selected Ion (228.0) 230112-PAHs-017.D



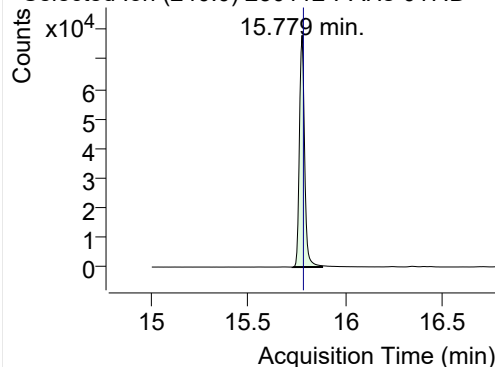
228.0, 226.0, 229.0



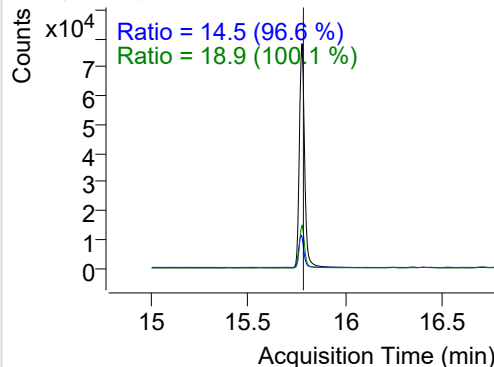
+ SIM (15.692-15.784 min, 18 scans) (**) 2301

**IS-D12-Chrysene**

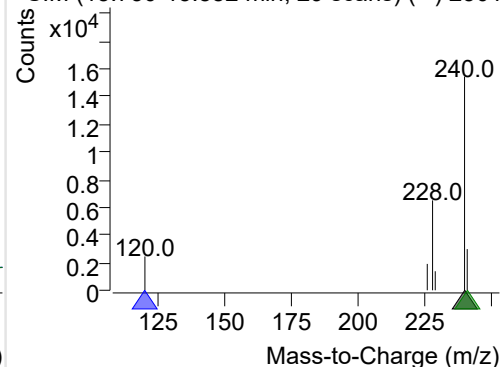
+ Selected Ion (240.0) 230112-PAHs-017.D



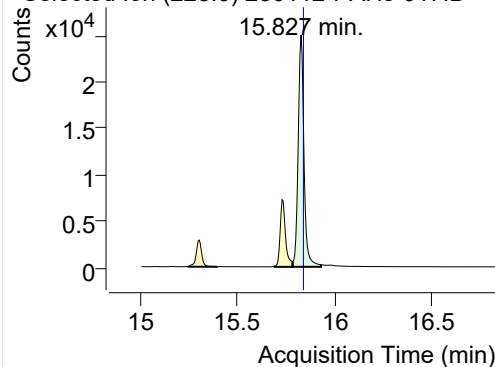
240.0, 120.0, 241.0



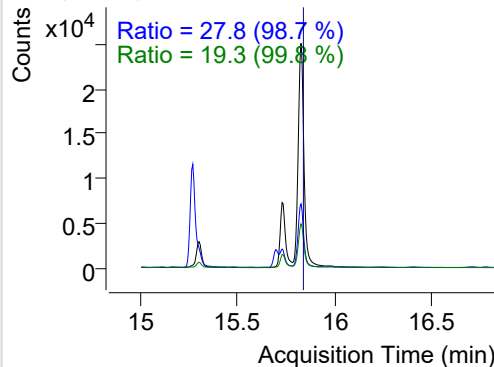
+ SIM (15.730-15.882 min, 29 scans) (**) 2301

**Chrysene**

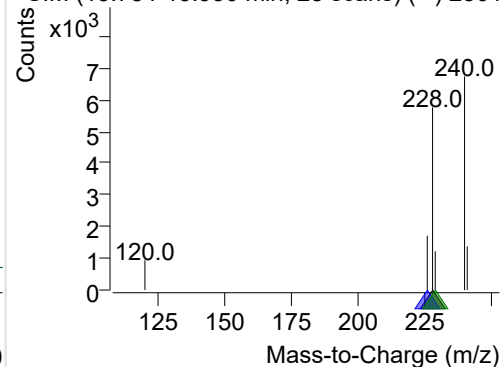
+ Selected Ion (228.0) 230112-PAHs-017.D



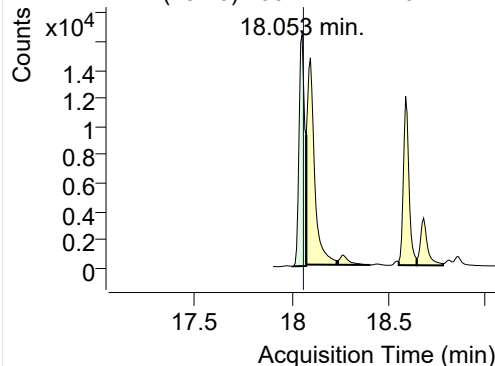
228.0, 226.0, 229.0



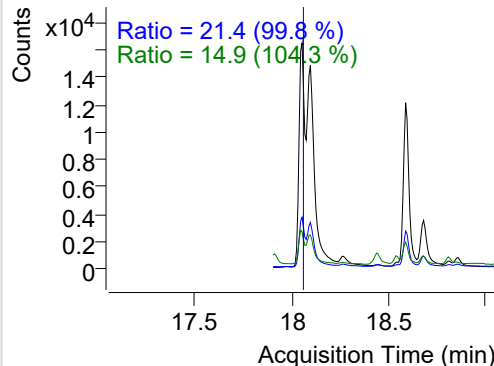
+ SIM (15.784-15.930 min, 28 scans) (**) 2301

**Benzo(b)fluoranthene**

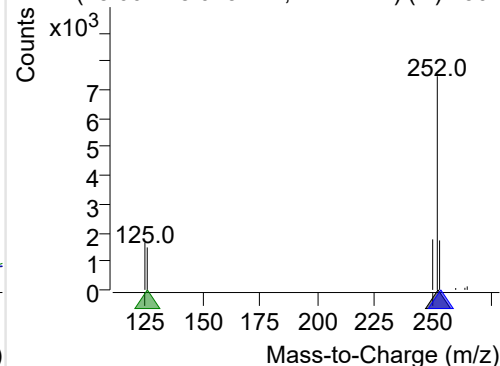
+ Selected Ion (252.0) 230112-PAHs-017.D



252.0, 253.0, 126.0

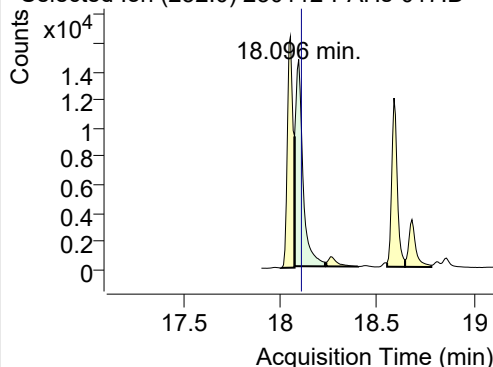


+ SIM (18.004-18.075 min, 11 scans) (**) 2301

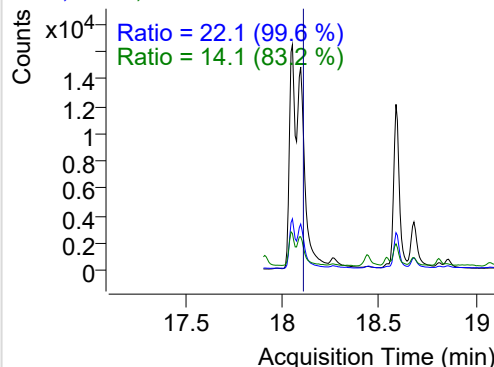


Benzo(k)fluoranthene

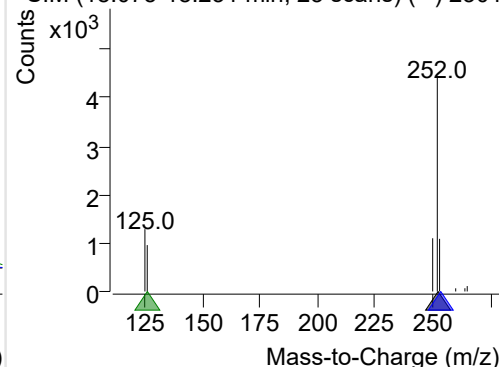
+ Selected Ion (252.0) 230112-PAHs-017.D



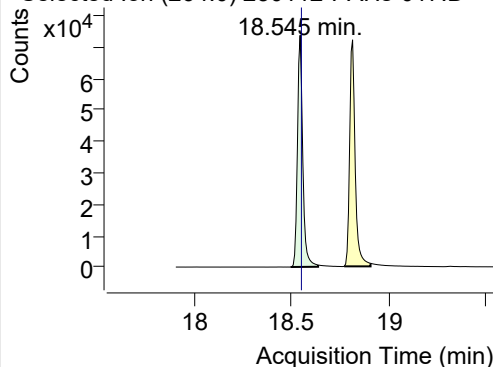
252.0, 253.0, 126.0



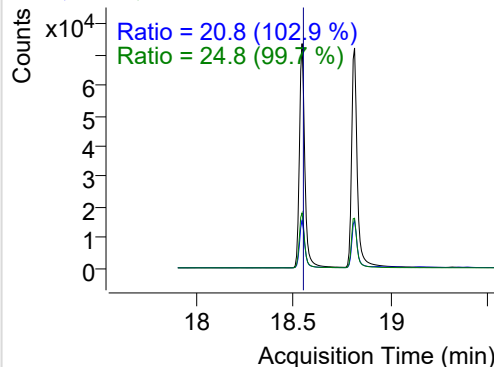
+ SIM (18.075-18.231 min, 23 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

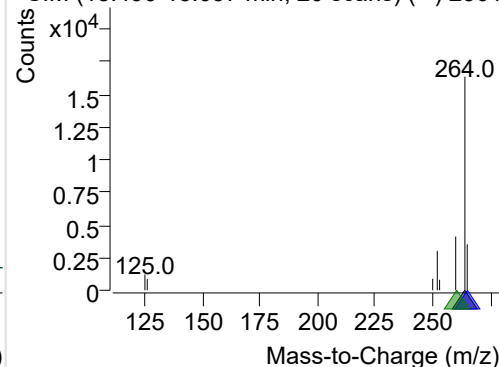
+ Selected Ion (264.0) 230112-PAHs-017.D



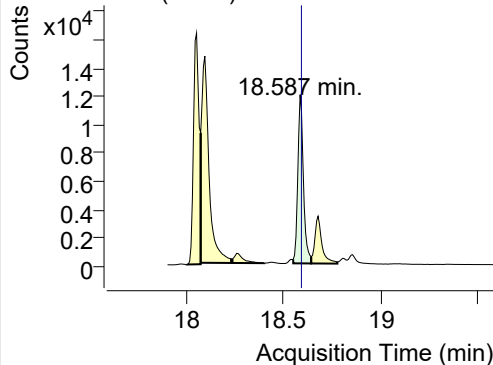
264.0, 265.0, 260.0



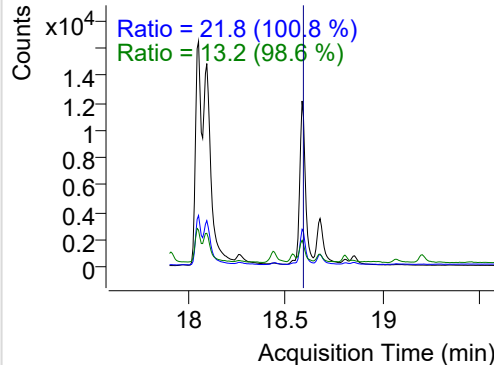
+ SIM (18.496-18.637 min, 20 scans) (**) 2301

**Benzo(e)pyrene**

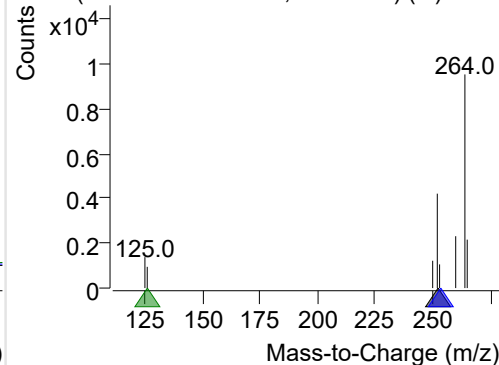
+ Selected Ion (252.0) 230112-PAHs-017.D



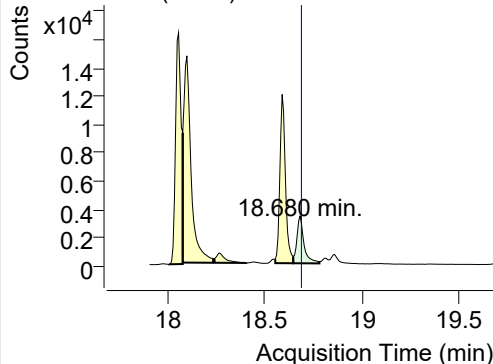
252.0, 253.0, 126.0



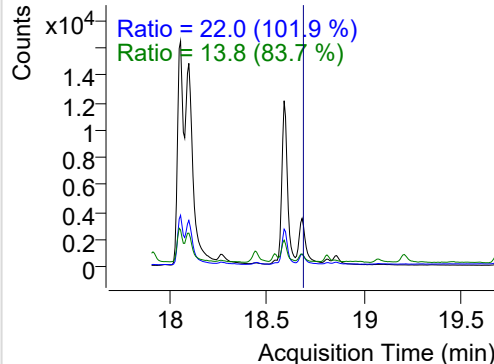
+ SIM (18.552-18.644 min, 14 scans) (**) 2301

**Benzo(a)pyrene**

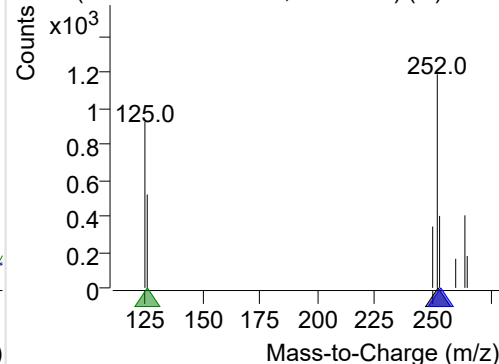
+ Selected Ion (252.0) 230112-PAHs-017.D



252.0, 253.0, 126.0

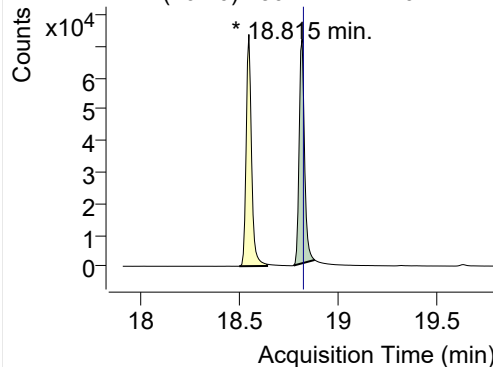


+ SIM (18.644-18.779 min, 20 scans) (**) 2301

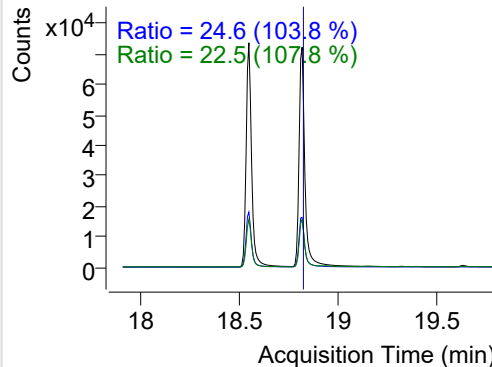


IS-D12-Perylene

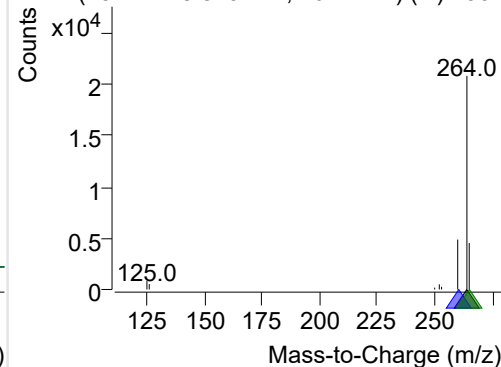
+ Selected Ion (264.0) 230112-PAHs-017.D



264.0, 260.0, 265.0

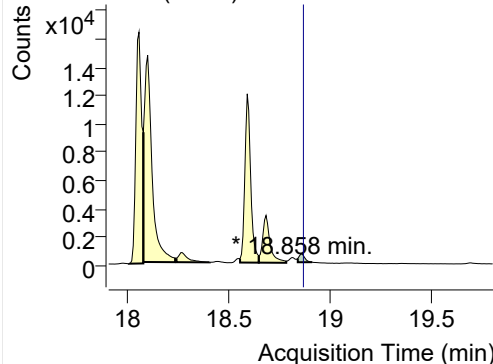


+ SIM (18.772-18.879 min, 16 scans) (**) 2301

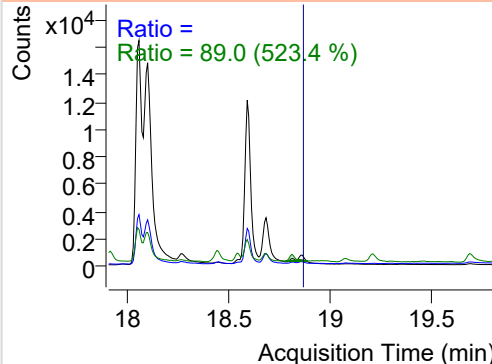


Perylene

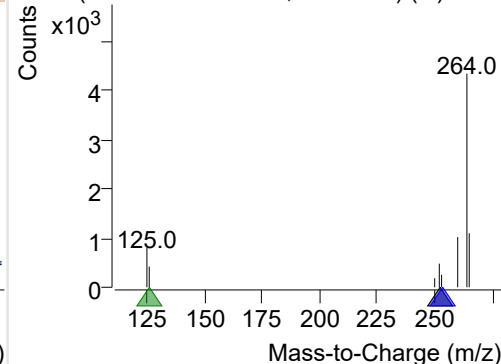
+ Selected Ion (252.0) 230112-PAHs-017.D



252.0, 253.0, 126.0

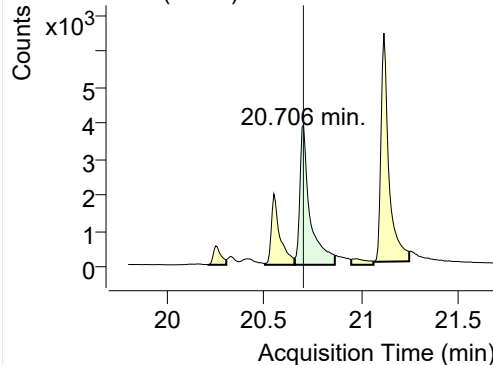


+ SIM (18.836-18.908 min, 11 scans) (**) 2301

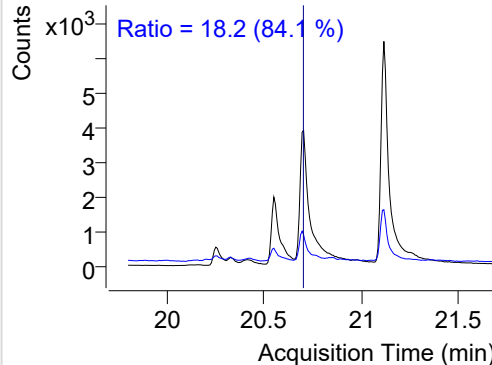


Indeno(1,2,3-c,d)pyrene

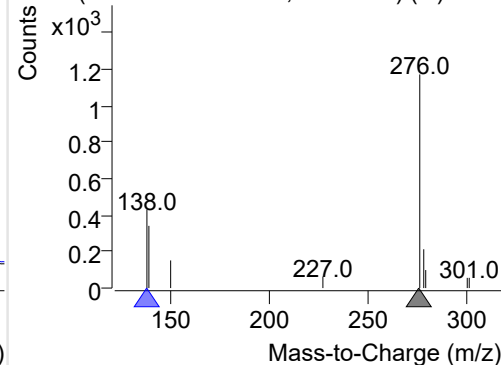
+ Selected Ion (276.0) 230112-PAHs-017.D



276.0, 138.0

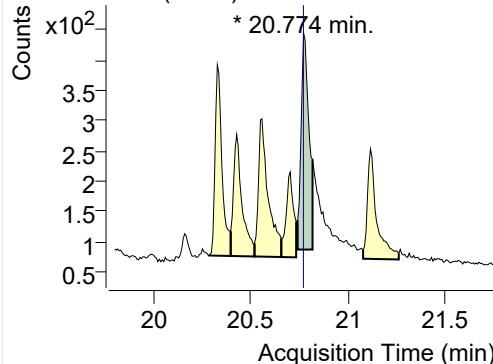


+ SIM (20.660-20.866 min, 28 scans) (**) 2301

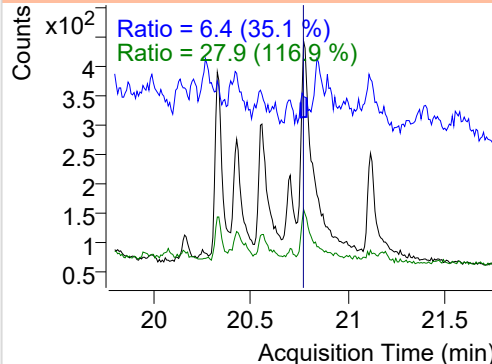


Dibenz(a,h)anthracene

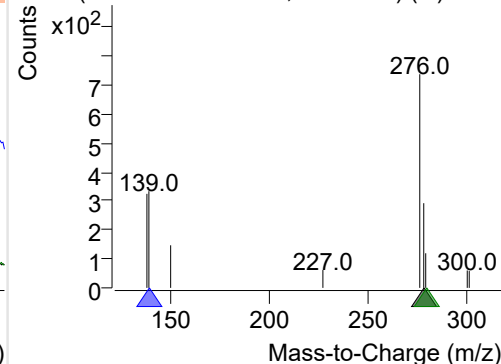
+ Selected Ion (278.0) 230112-PAHs-017.D



278.0, 139.0, 279.0

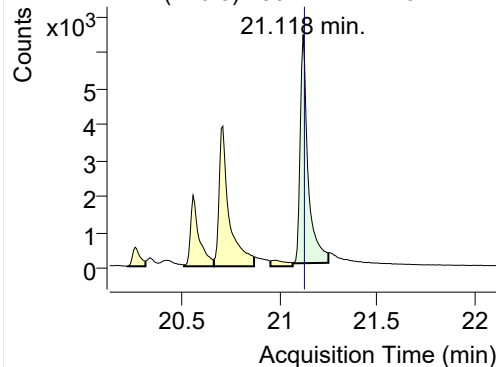


+ SIM (20.744-20.820 min, 11 scans) (**) 2301

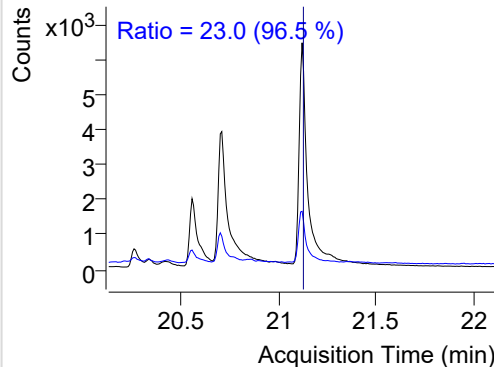


Benzo(g,h,i)perylene

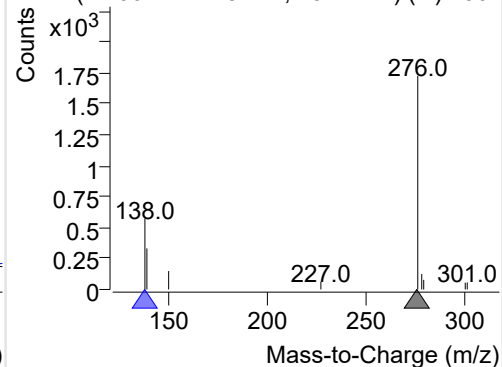
+ Selected Ion (276.0) 230112-PAHs-017.D



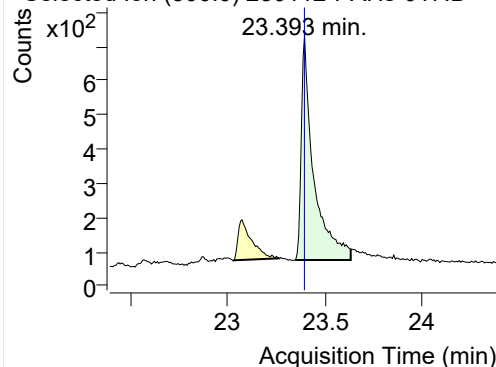
276.0, 138.0



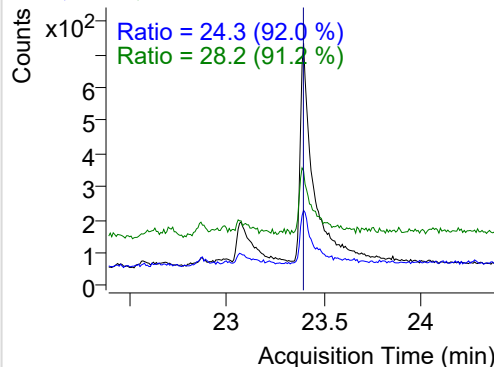
+ SIM (21.064-21.248 min, 25 scans) (**) 2301

**Coronene**

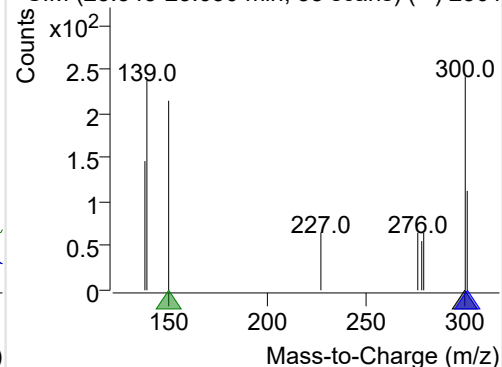
+ Selected Ion (300.0) 230112-PAHs-017.D



300.0, 301.0, 150.0



+ SIM (23.345-23.630 min, 38 scans) (**) 2301



Quantitative Analysis Sample Based Report

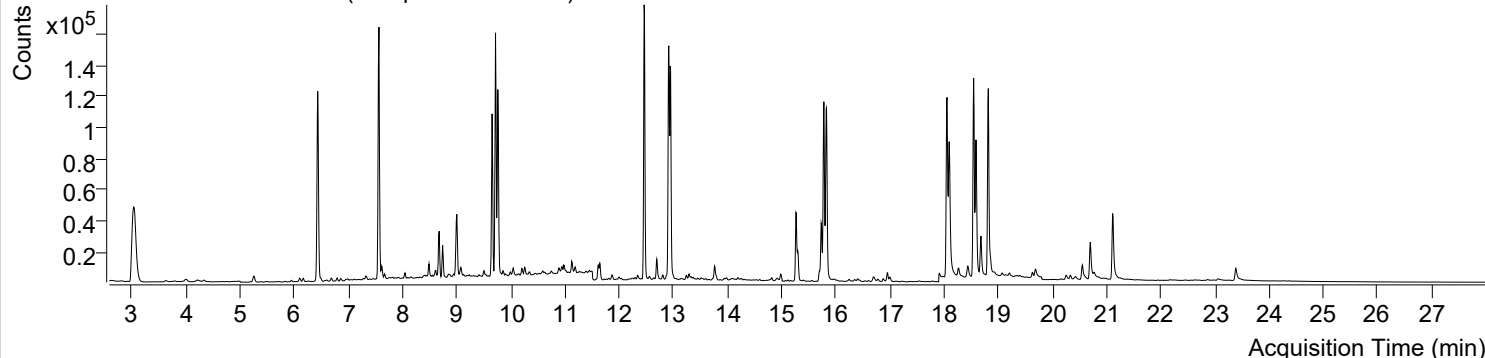


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 8:34:05	Data File	230112-PAHs-018.D
Type	Sample	Name	Sample-PM-221231
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

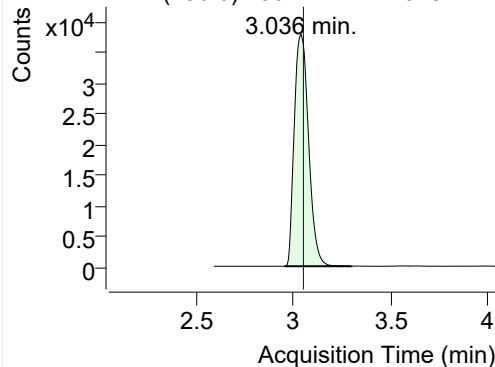
+ TIC SIM 230112-PAHs-018.D (Sample-PM-221231)



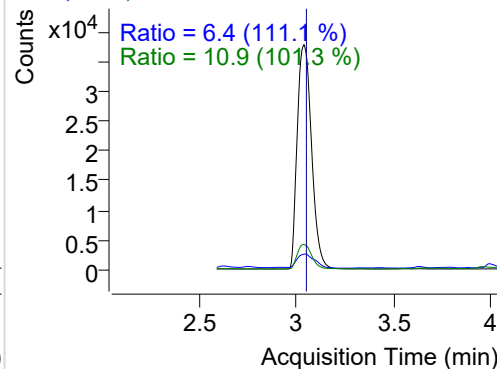
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	193989	37851.18	ND ng/ml	10.9
Naphthalene	3.063	128.0	19691	3861.06	ND ng/ml	11.3
Acenaphthylene	6.102	152.0	3755	1778.10	ND ng/ml	18.1
IS-D10-Acenaphthene	6.433	164.0	115736	59344.17	ND ng/ml	93.6
Acenaphthene	6.493	154.0	1046	435.96	ND ng/ml	93.2
LSS-D10-Fluorene	7.564	176.0	127782	74227.51	ND ng/ml	91.0
Fluorene	7.617	166.0	6460	3466.04	ND ng/ml	95.0
IS-D10-Phenanthrene	9.717	188.0	197995	125322.8	ND ng/ml	15.1
Phenanthrene	9.759	178.0	128194	77148.00	ND ng/ml	18.5
Anthracene	9.853	178.0	3248	1858.30	ND ng/ml	
Fluoranthene	12.461	202.0	220992	135876.8	ND ng/ml	17.9
LSS-D10-Pyrene	12.916	212.0	186868	110066.3	ND ng/ml	18.0
Pyrene	12.943	202.0	166139	100104.0	ND ng/ml	20.4
Benz(a)anthracene	15.730	228.0	48401	25483.60	ND ng/ml	27.1
IS-D12-Chrysene	15.778	240.0	153273	85719.00	ND ng/ml	18.8
Chrysene	15.827	228.0	149431	73804.65	ND ng/ml	28.6
Benzo(b)fluoranthene	18.053	252.0	130157	68803.75	ND ng/ml	21.4
Benzo(k)fluoranthene	18.096	252.0	122651	50891.75	ND ng/ml	21.7
SS-D12-Benzo(e)pyrene	18.544	264.0	162565	86820.33	ND ng/ml	24.6
Benzo(e)pyrene	18.587	252.0	88910	47091.75	ND ng/ml	21.7
Benzo(a)pyrene	18.680	252.0	33216	14784.75	ND ng/ml	22.1
IS-D12-Perylene	18.815	264.0	150037	81684.52	ND ng/ml	24.4
Perylene	18.858	252.0	7397	3175.23	ND ng/ml	18.0
Indeno(1,2,3-c,d)pytene	20.698	276.0	55111	19304.66	ND ng/ml	18.6
Dibenz(a,h)anthracene	20.774	278.0	4831	1462.34	ND ng/ml	23.1
Benzo(g,h,i)perylene	21.110	276.0	82591	33112.06	ND ng/ml	22.1
Coronene	23.385	300.0	16921	5018.87	ND ng/ml	28.2

IS-D8-Naphthalene

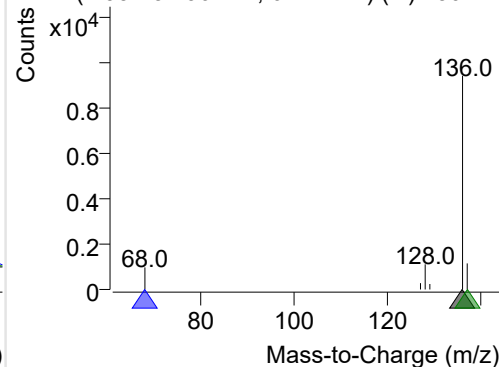
+ Selected Ion (136.0) 230112-PAHs-018.D



136.0, 68.0, 137.0

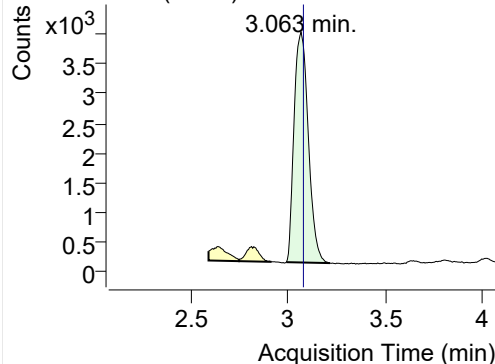


+ SIM (2.951-3.296 min, 64 scans) (**) 230112

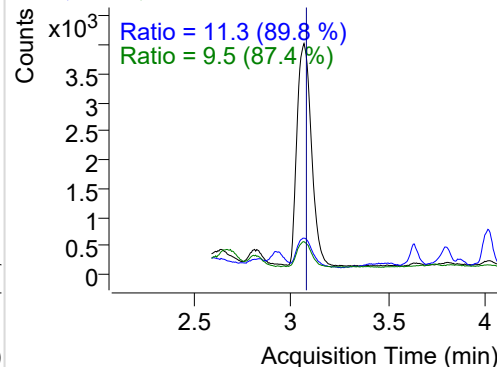


Naphthalene

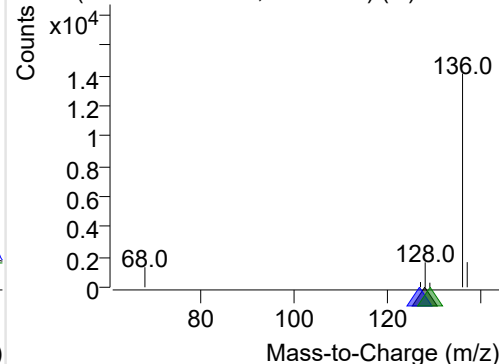
+ Selected Ion (128.0) 230112-PAHs-018.D



128.0, 127.0, 129.0

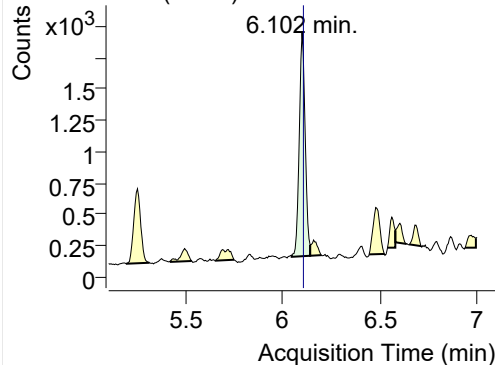


+ SIM (2.988-3.213 min, 41 scans) (**) 230112

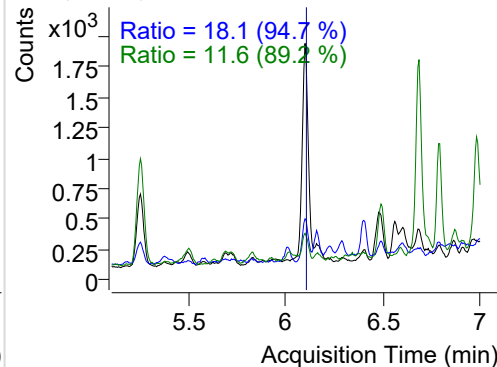


Acenaphthylene

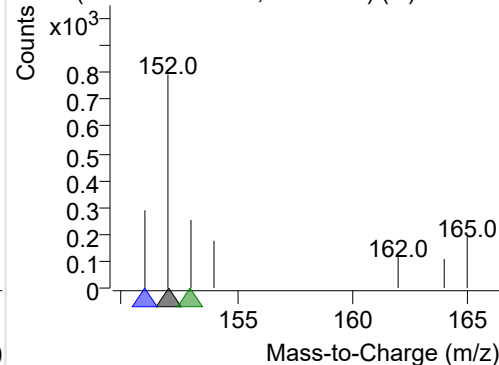
+ Selected Ion (152.0) 230112-PAHs-018.D



152.0, 151.0, 153.0

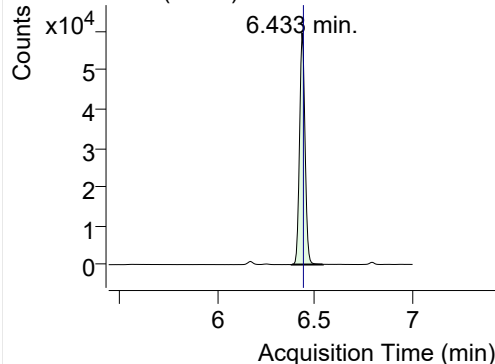


+ SIM (6.049-6.143 min, 17 scans) (**) 230112

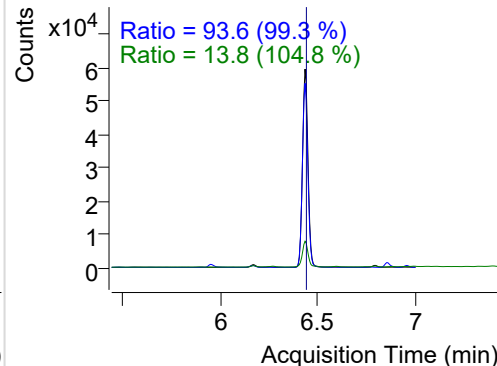


IS-D10-Acenaphthene

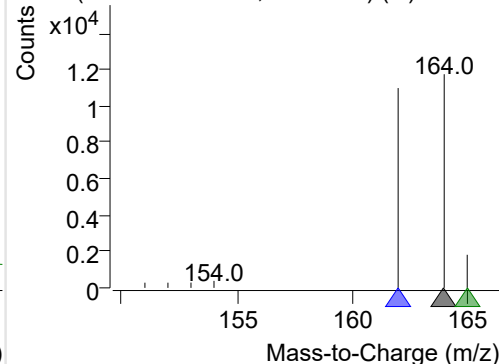
+ Selected Ion (164.0) 230112-PAHs-018.D



164.0, 162.0, 165.0

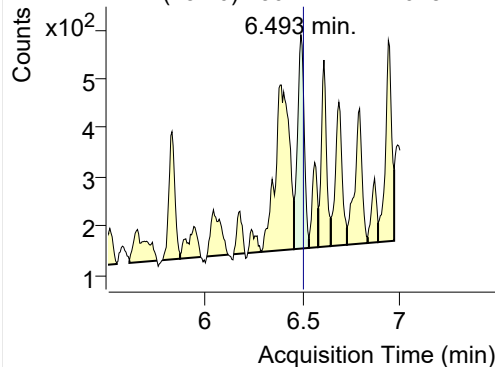


+ SIM (6.380-6.540 min, 28 scans) (**) 230112

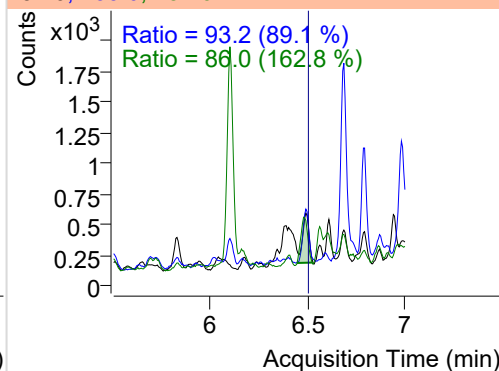


Acenaphthene

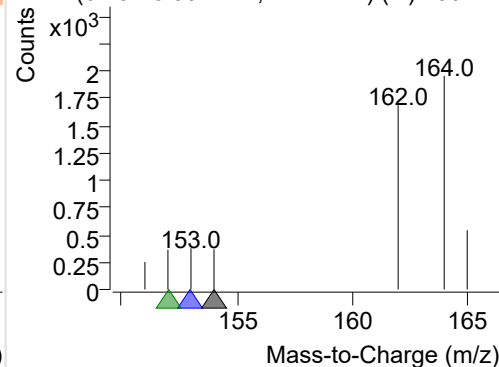
+ Selected Ion (154.0) 230112-PAHs-018.D



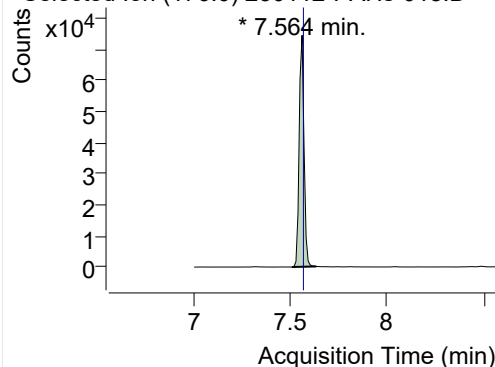
154.0, 153.0, 152.0



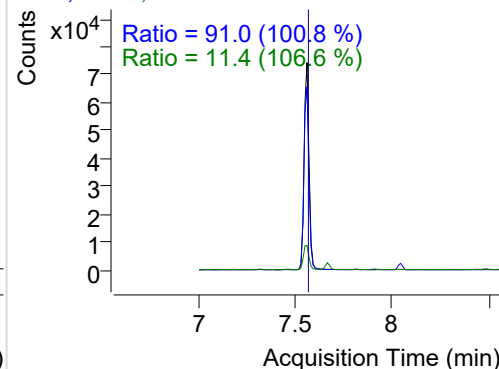
+ SIM (6.457-6.534 min, 14 scans) (**) 230112

**LSS-D10-Fluorene**

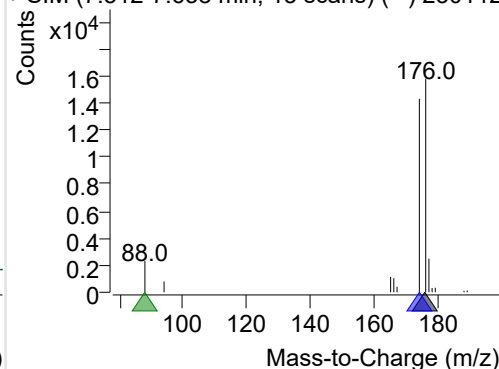
+ Selected Ion (176.0) 230112-PAHs-018.D



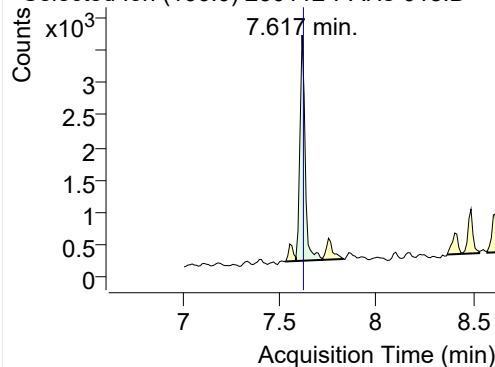
176.0, 174.0, 88.0



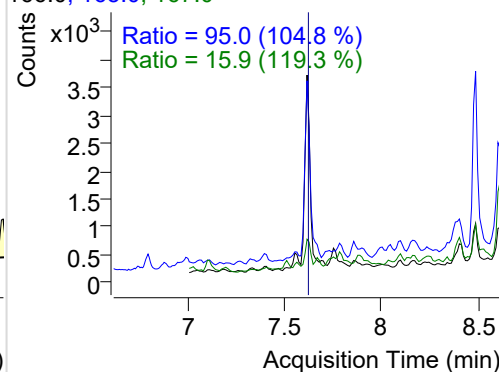
+ SIM (7.512-7.638 min, 13 scans) (**) 230112

**Fluorene**

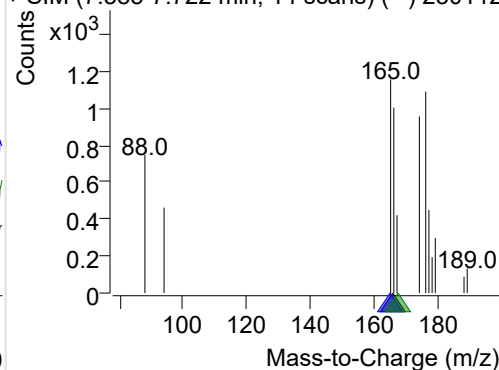
+ Selected Ion (166.0) 230112-PAHs-018.D



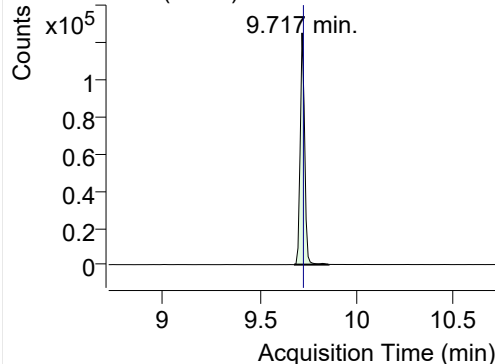
166.0, 165.0, 167.0



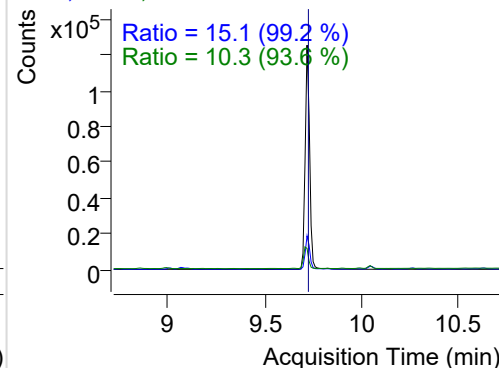
+ SIM (7.585-7.722 min, 14 scans) (**) 230112

**IS-D10-Phenanthrene**

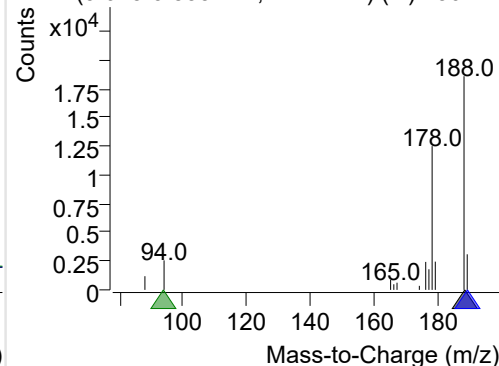
+ Selected Ion (188.0) 230112-PAHs-018.D



188.0, 189.0, 94.0

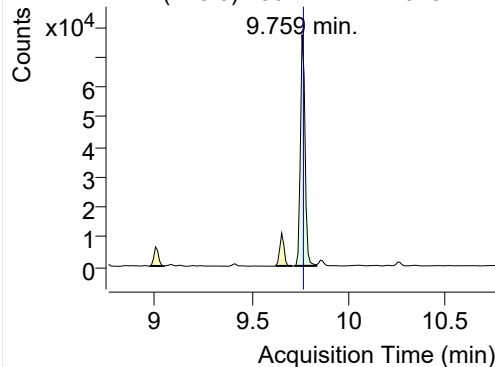


+ SIM (9.675-9.853 min, 17 scans) (**) 230112

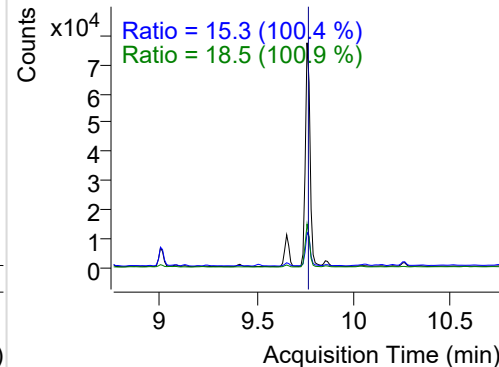


Phenanthrene

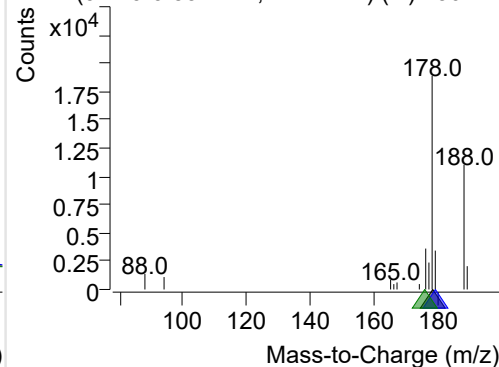
+ Selected Ion (178.0) 230112-PAHs-018.D



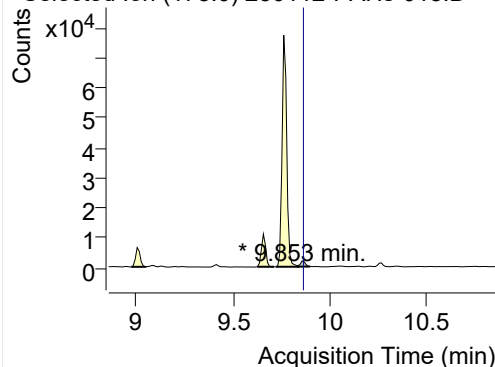
178.0, 179.0, 176.0



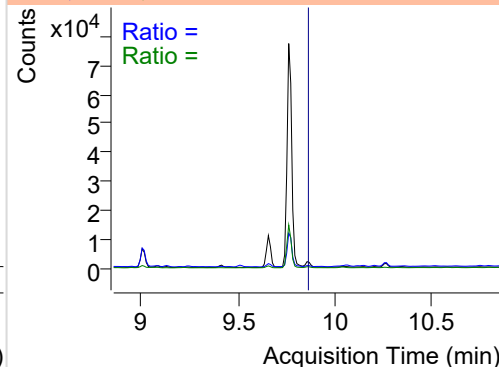
+ SIM (9.719-9.832 min, 11 scans) (**) 230112

**Anthracene**

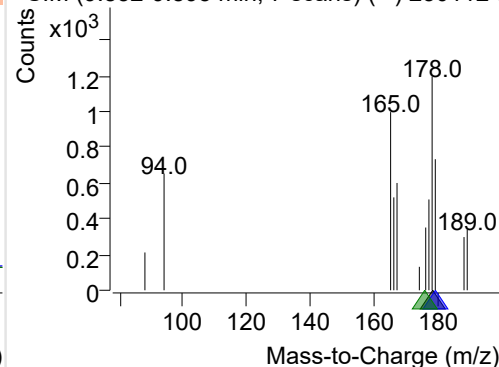
+ Selected Ion (178.0) 230112-PAHs-018.D



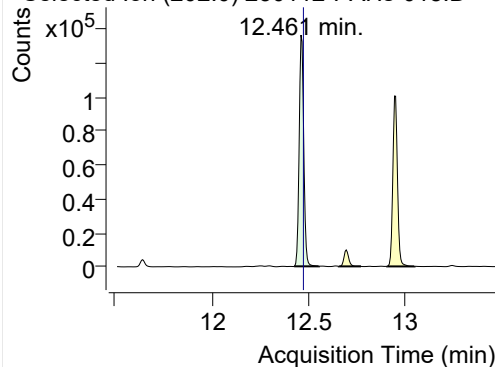
178.0, 179.0, 176.0



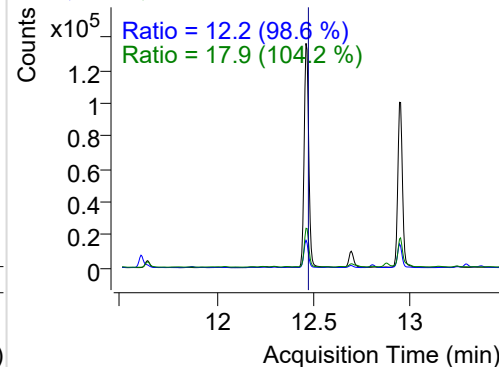
+ SIM (9.832-9.895 min, 7 scans) (**) 230112-I

**Fluoranthene**

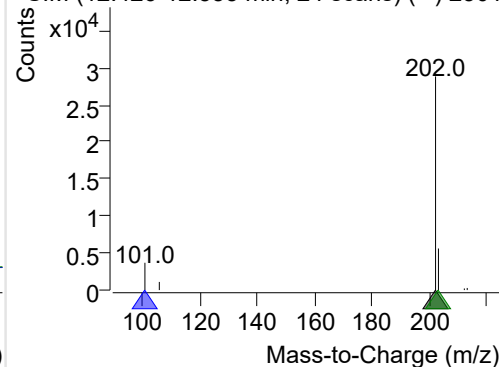
+ Selected Ion (202.0) 230112-PAHs-018.D



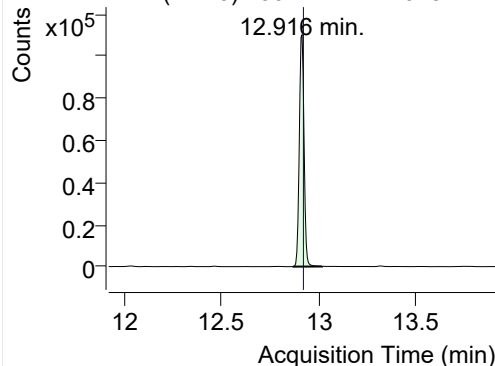
202.0, 101.0, 203.0



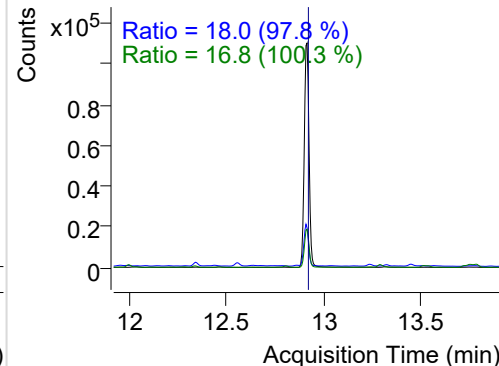
+ SIM (12.426-12.553 min, 24 scans) (**) 2301

**LSS-D10-Pyrene**

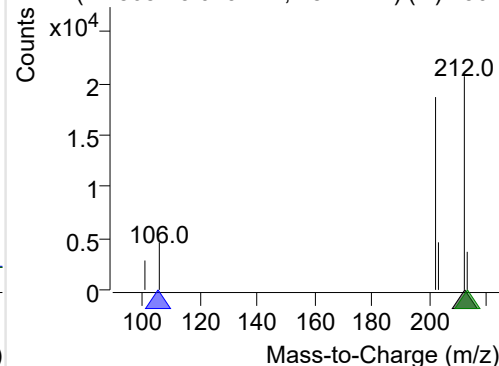
+ Selected Ion (212.0) 230112-PAHs-018.D



212.0, 106.0, 213.0

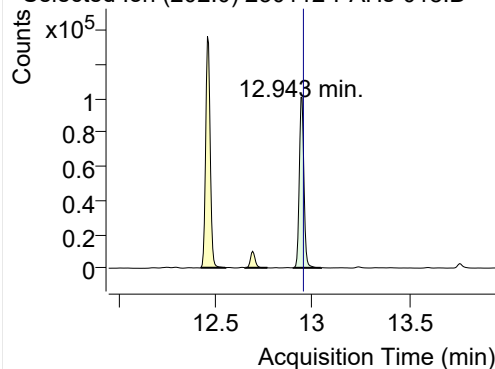


+ SIM (12.868-13.019 min, 28 scans) (**) 2301

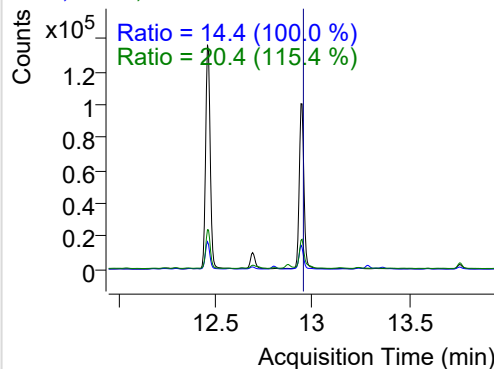


Pyrene

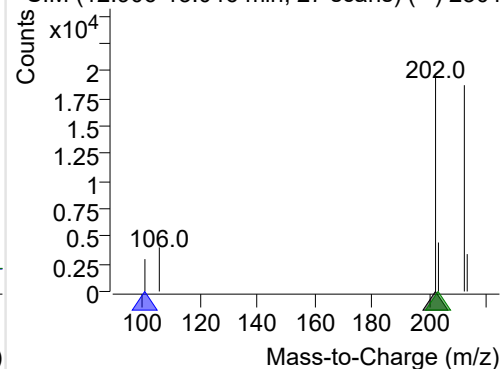
+ Selected Ion (202.0) 230112-PAHs-018.D



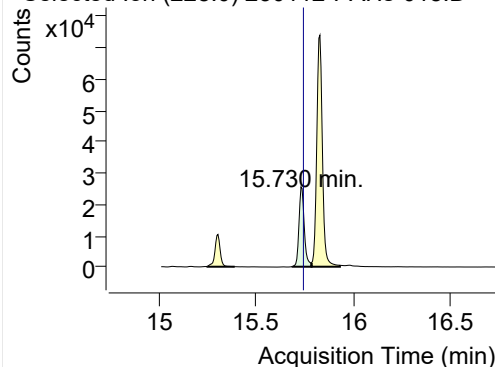
202.0, 101.0, 203.0



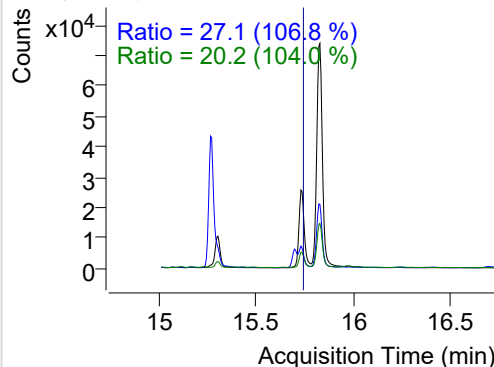
+ SIM (12.906-13.046 min, 27 scans) (**) 2301

**Benz(a)anthracene**

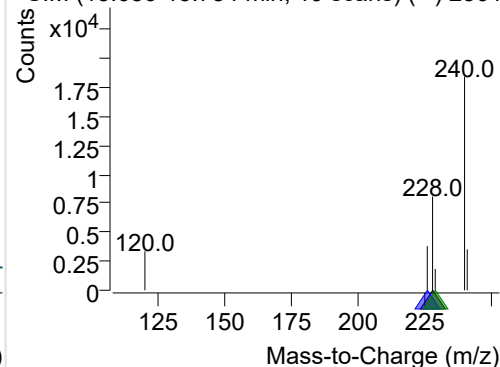
+ Selected Ion (228.0) 230112-PAHs-018.D



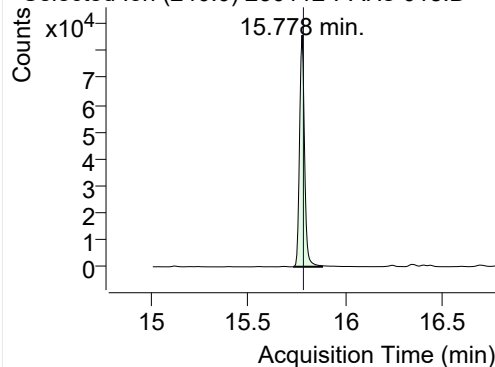
228.0, 226.0, 229.0



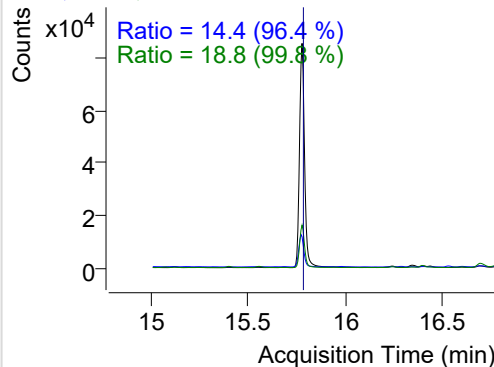
+ SIM (15.686-15.784 min, 19 scans) (**) 2301

**IS-D12-Chrysene**

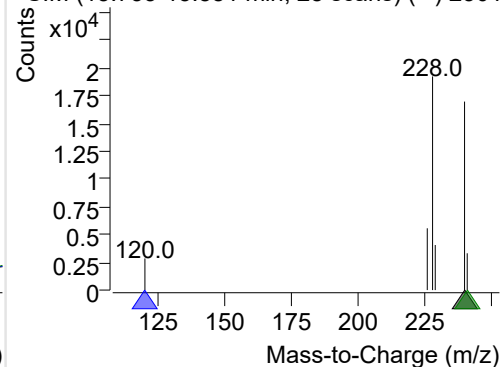
+ Selected Ion (240.0) 230112-PAHs-018.D



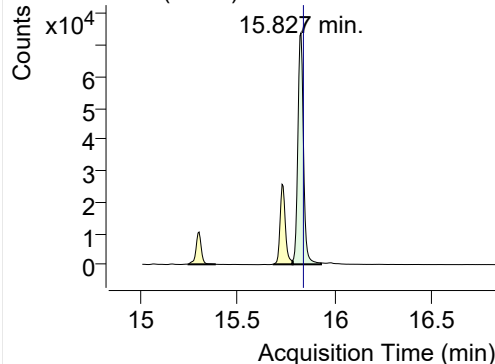
240.0, 120.0, 241.0



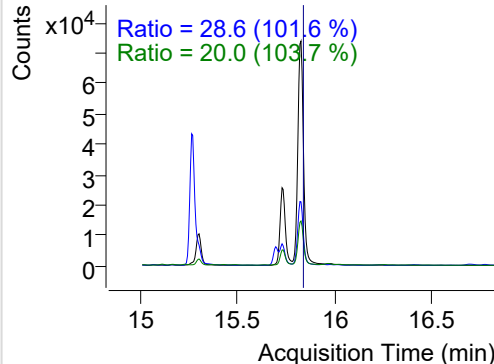
+ SIM (15.733-15.881 min, 28 scans) (**) 2301

**Chrysene**

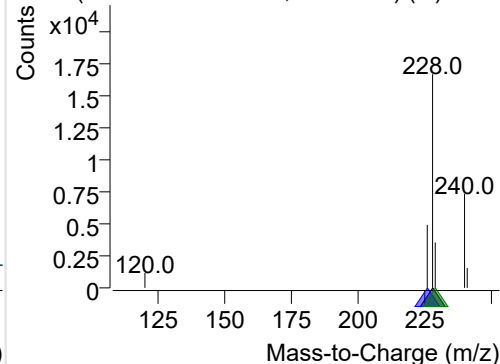
+ Selected Ion (228.0) 230112-PAHs-018.D



228.0, 226.0, 229.0

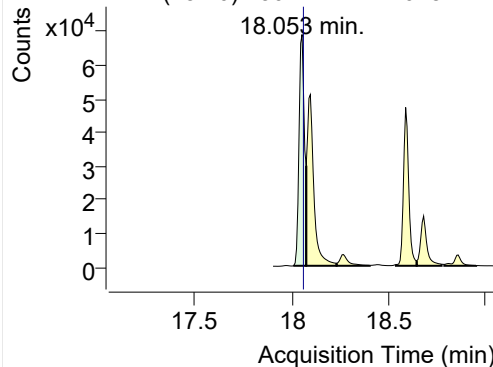


+ SIM (15.784-15.930 min, 28 scans) (**) 2301

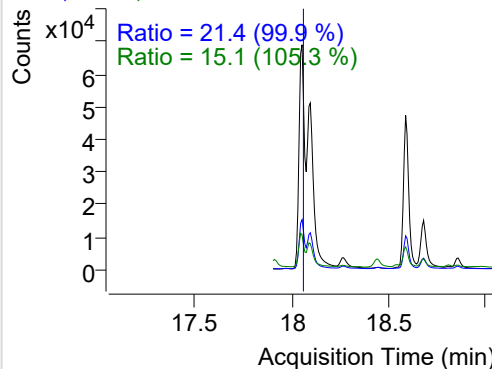


Benzo(b)fluoranthene

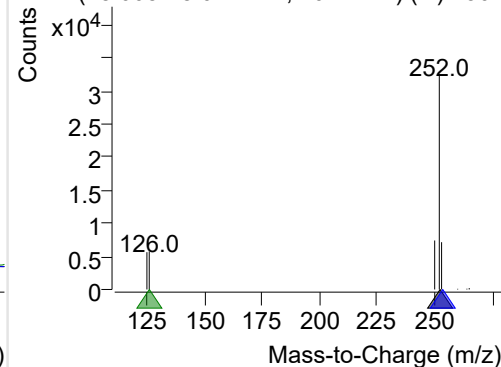
+ Selected Ion (252.0) 230112-PAHs-018.D



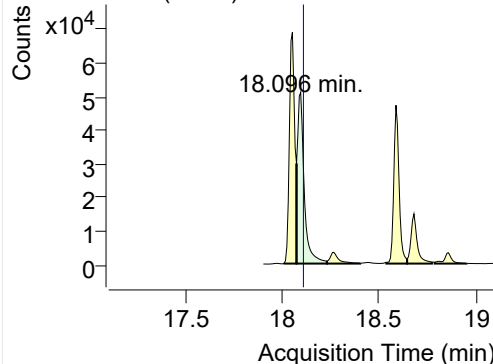
252.0, 253.0, 126.0



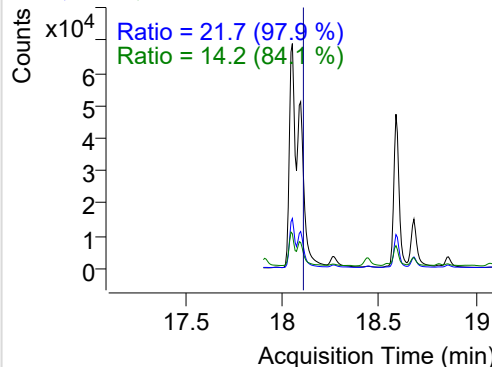
+ SIM (18.008-18.074 min, 10 scans) (**) 2301

**Benzo(k)fluoranthene**

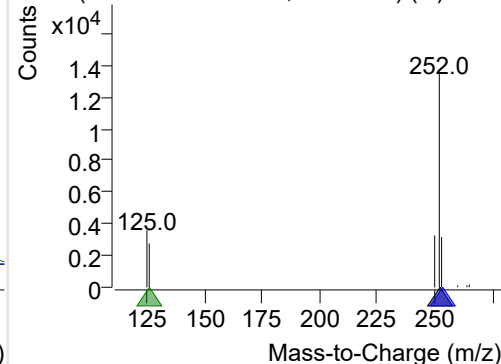
+ Selected Ion (252.0) 230112-PAHs-018.D



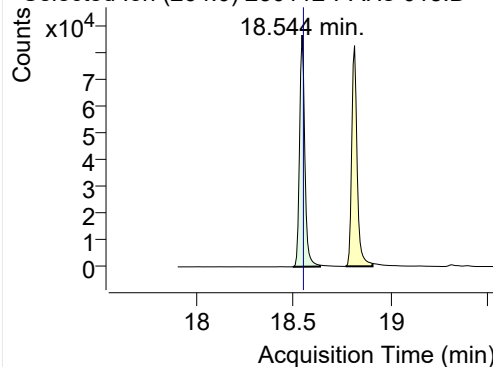
252.0, 253.0, 126.0



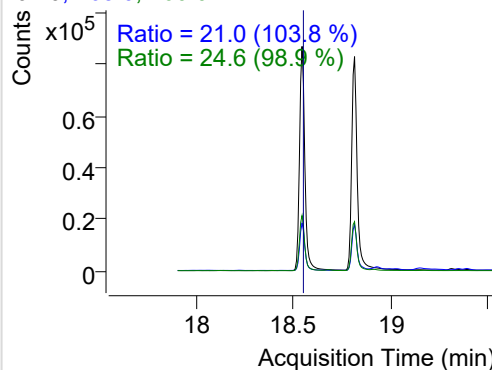
+ SIM (18.074-18.231 min, 23 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

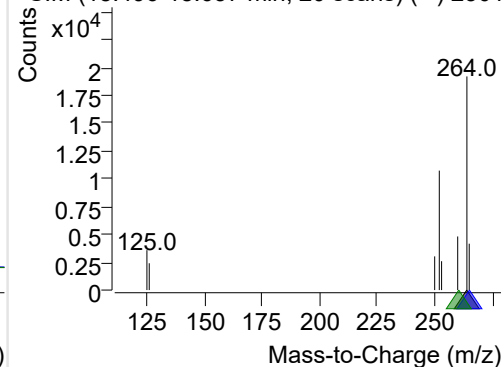
+ Selected Ion (264.0) 230112-PAHs-018.D



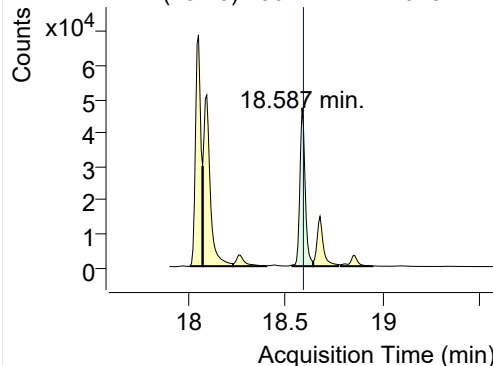
264.0, 265.0, 260.0



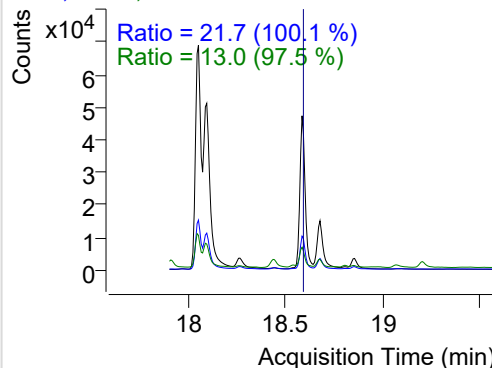
+ SIM (18.496-18.637 min, 20 scans) (**) 2301

**Benzo(e)pyrene**

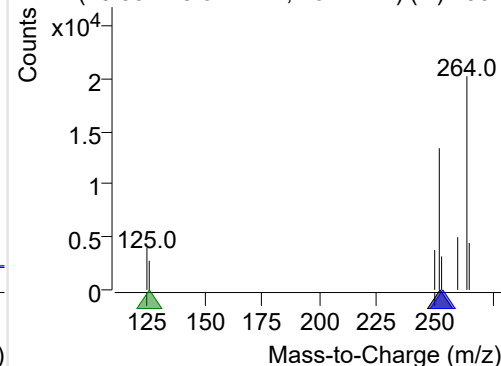
+ Selected Ion (252.0) 230112-PAHs-018.D



252.0, 253.0, 126.0

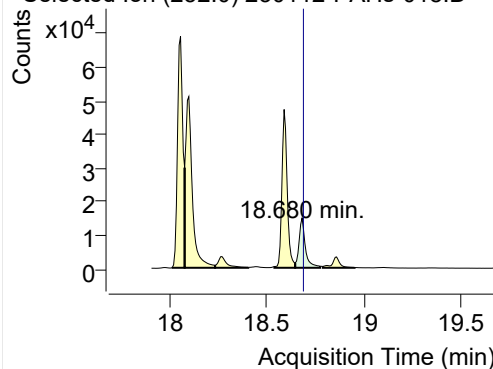


+ SIM (18.537-18.644 min, 16 scans) (**) 2301

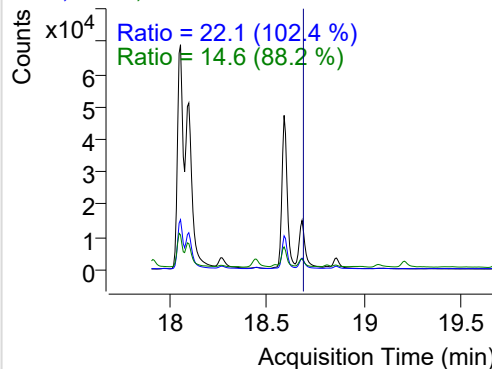


Benzo(a)pyrene

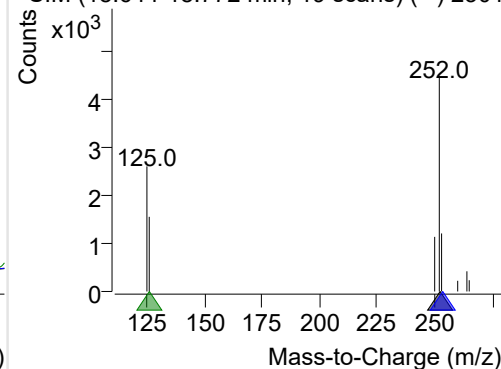
+ Selected Ion (252.0) 230112-PAHs-018.D



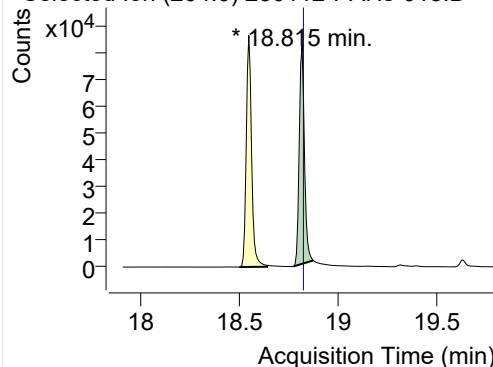
252.0, 253.0, 126.0



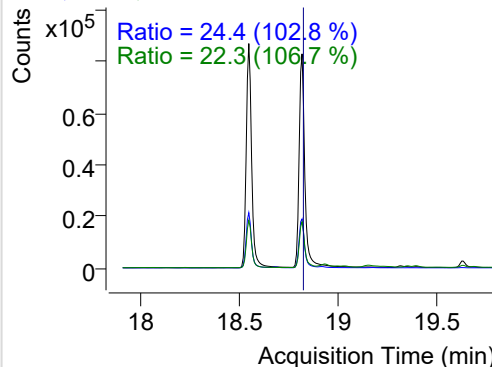
+ SIM (18.644-18.772 min, 19 scans) (**) 2301

**IS-D12-Perylene**

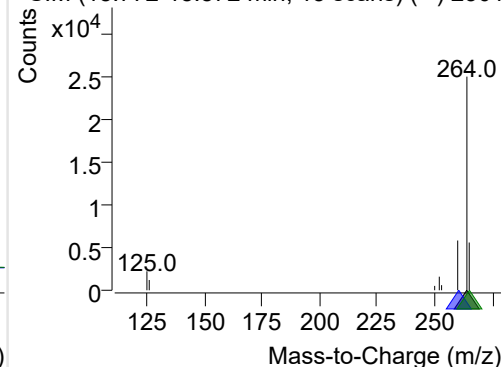
+ Selected Ion (264.0) 230112-PAHs-018.D



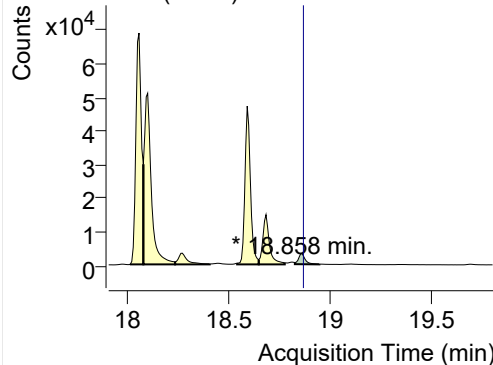
264.0, 260.0, 265.0



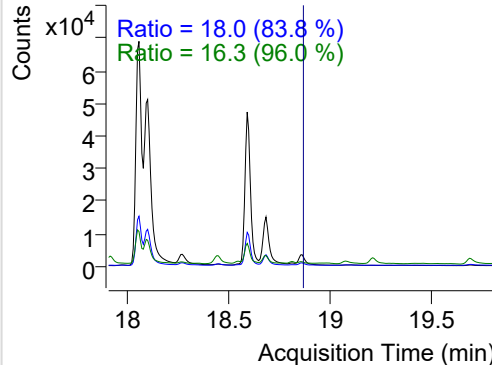
+ SIM (18.772-18.872 min, 15 scans) (**) 2301

**Perylene**

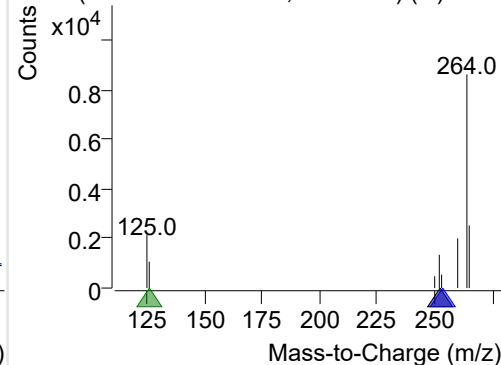
+ Selected Ion (252.0) 230112-PAHs-018.D



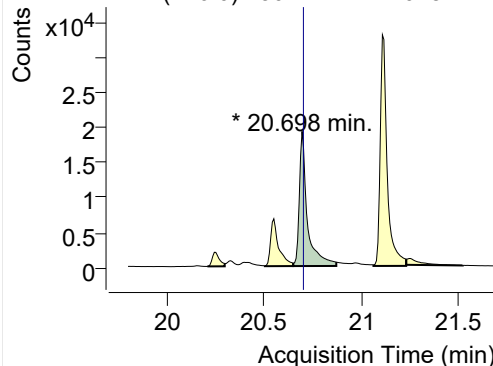
252.0, 253.0, 126.0



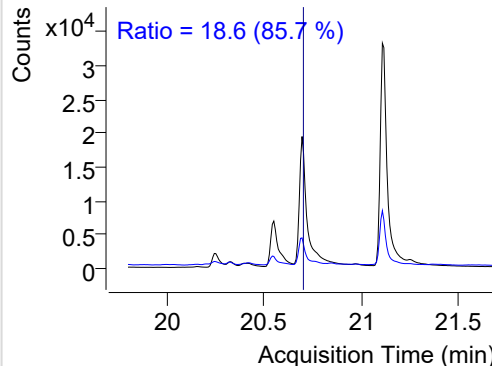
+ SIM (18.822-18.943 min, 18 scans) (**) 2301

**Indeno(1,2,3-c,d)pyrene**

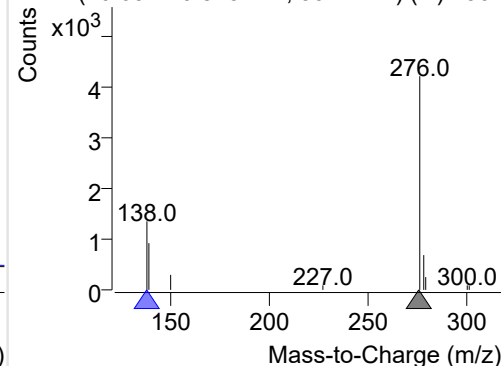
+ Selected Ion (276.0) 230112-PAHs-018.D



276.0, 138.0

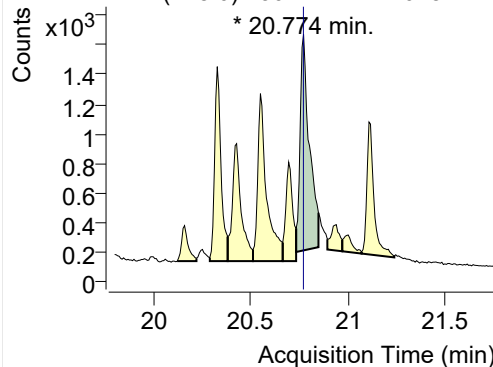


+ SIM (20.652-20.873 min, 30 scans) (**) 2301

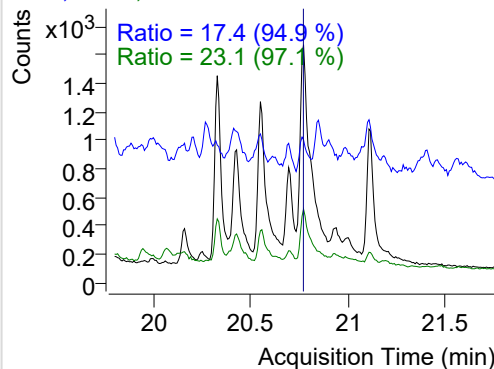


Dibenz(a,h)anthracene

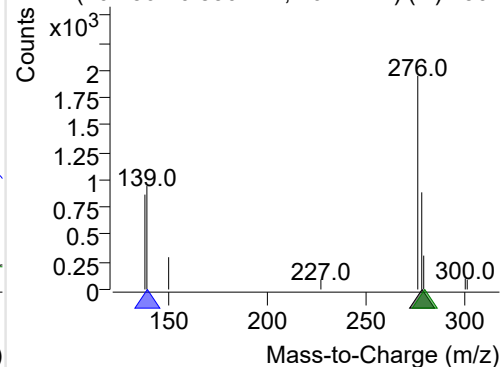
+ Selected Ion (278.0) 230112-PAHs-018.D



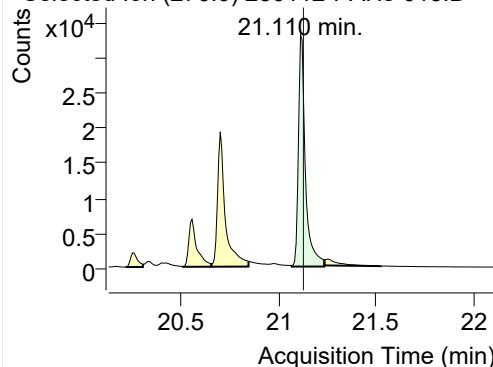
278.0, 139.0, 279.0



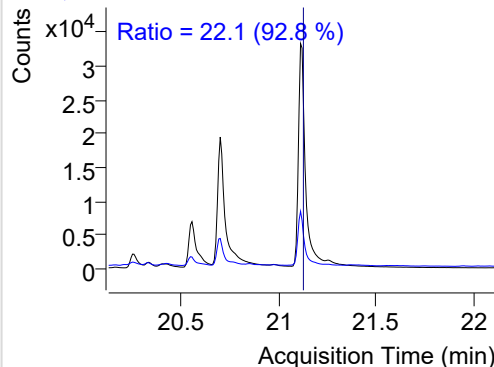
+ SIM (20.736-20.850 min, 16 scans) (**) 2301

**Benzo(g,h,i)perylene**

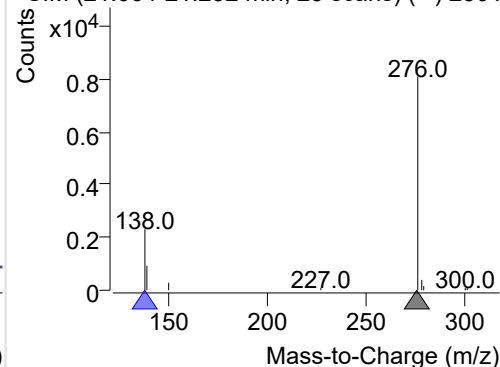
+ Selected Ion (276.0) 230112-PAHs-018.D



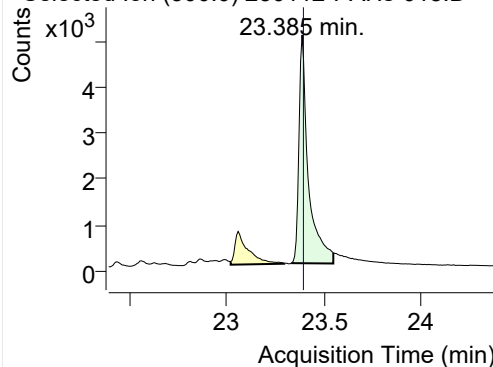
276.0, 138.0



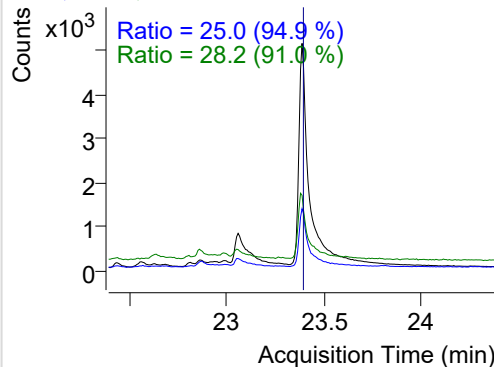
+ SIM (21.064-21.232 min, 23 scans) (**) 2301

**Coronene**

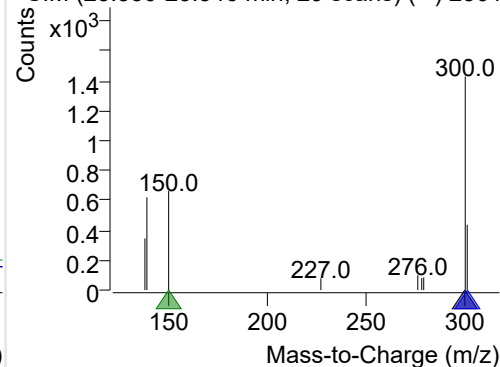
+ Selected Ion (300.0) 230112-PAHs-018.D



300.0, 301.0, 150.0



+ SIM (23.330-23.546 min, 29 scans) (**) 2301



Quantitative Analysis Sample Based Report

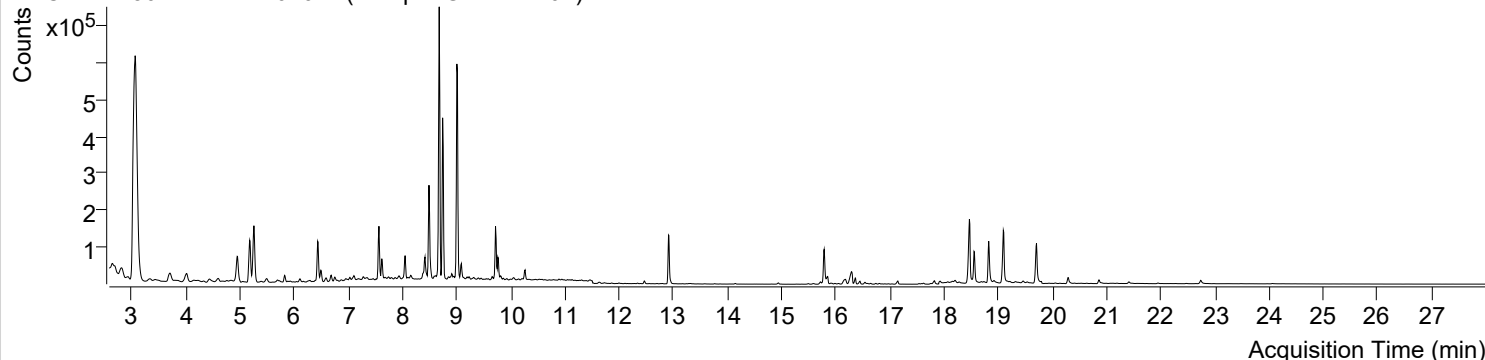


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 9:36:23	Data File	230112-PAHs-020.D
Type	Sample	Name	Sample-Gas-221201
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

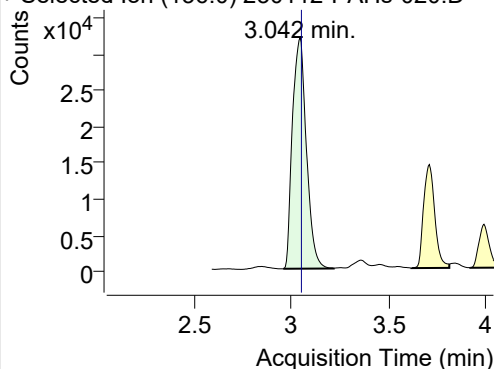
+ TIC SIM 230112-PAHs-020.D (Sample-Gas-221201)



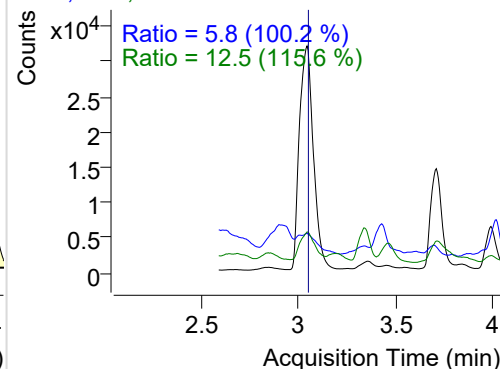
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	158536	31748.53	ND ng/ml	12.5
Naphthalene	3.063	128.0	2384186	470642.00	ND ng/ml	12.9
Acenaphthylene	6.102	152.0	13141	6171.68	ND ng/ml	20.1
IS-D10-Acenaphthene	6.433	164.0	105285	52472.36	ND ng/ml	92.6
Acenaphthene	6.498	154.0	15961	7983.71	ND ng/ml	123.5
LSS-D10-Fluorene	7.564	176.0	110120	65338.81	ND ng/ml	91.3
Fluorene	7.617	166.0	47650	26432.43	ND ng/ml	96.2
IS-D10-Phenanthrene	9.717	188.0	182589	113480.75	ND ng/ml	16.6
Phenanthrene	9.759	178.0	74695	38025.58	ND ng/ml	18.4
Anthracene	9.864	178.0	2768	1849.24	ND ng/ml	
Fluoranthene	12.467	202.0	9074	5349.52	ND ng/ml	18.0
LSS-D10-Pyrene	12.916	212.0	164699	97199.43	ND ng/ml	18.1
Pyrene	12.949	202.0	7258	3958.65	ND ng/ml	15.6
Benz(a)anthracene	15.740	228.0	648	334.64	ND ng/ml	987.6
IS-D12-Chrysene	15.784	240.0	138281	69569.16	ND ng/ml	19.5
Chrysene	15.838	228.0	1762	620.80	ND ng/ml	35.5
Benzo(b)fluoranthene	18.074	252.0	1266	322.89	ND ng/ml	
Benzo(k)fluoranthene	18.074	252.0	1266	322.89	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.551	264.0	112972	56538.53	ND ng/ml	24.0
Benzo(e)pyrene	18.608	252.0	1914	728.17	ND ng/ml	
Benzo(a)pyrene	18.737	252.0	1042	232.92	ND ng/ml	
IS-D12-Perylene	18.822	264.0	146508	75175.01	ND ng/ml	22.7
Perylene	18.815	252.0	1668	455.99	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.721	276.0	194	60.36	ND ng/ml	
Dibenz(a,h)anthracene	20.797	278.0	70	35.84	ND ng/ml	
Benzo(g,h,i)perylene	21.141	276.0	417	122.53	ND ng/ml	242.8
Coronene	23.408	300.0	332	59.98	ND ng/ml	

IS-D8-Naphthalene

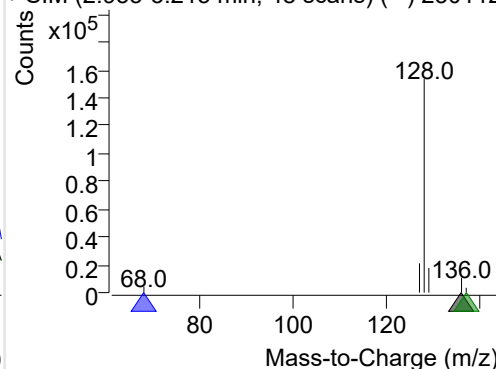
+ Selected Ion (136.0) 230112-PAHs-020.D



136.0, 68.0, 137.0

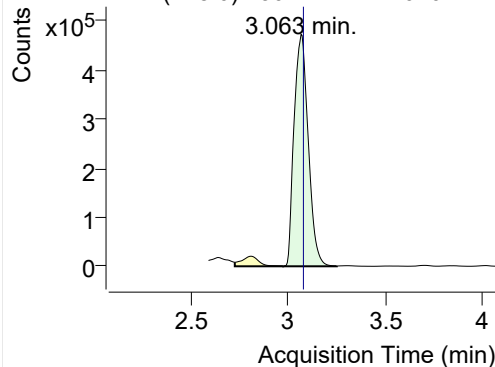


+ SIM (2.955-3.215 min, 48 scans) (**) 230112

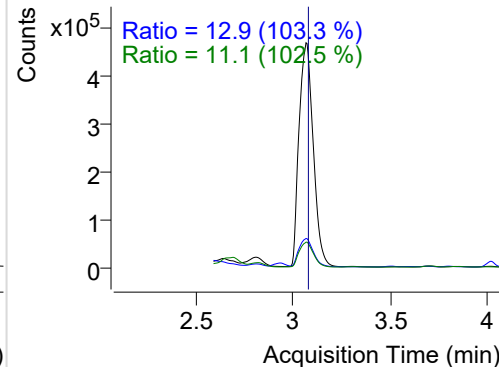


Naphthalene

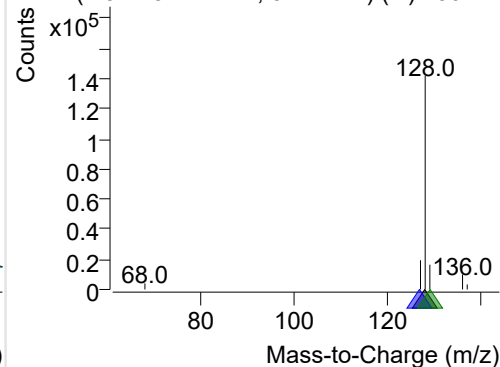
+ Selected Ion (128.0) 230112-PAHs-020.D



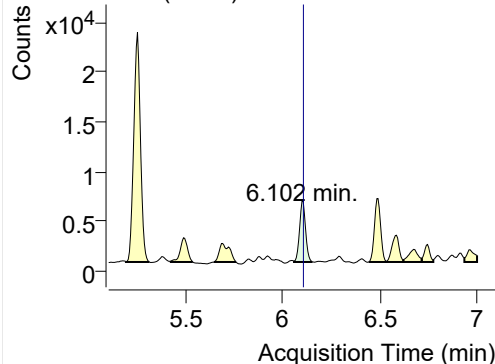
128.0, 127.0, 129.0



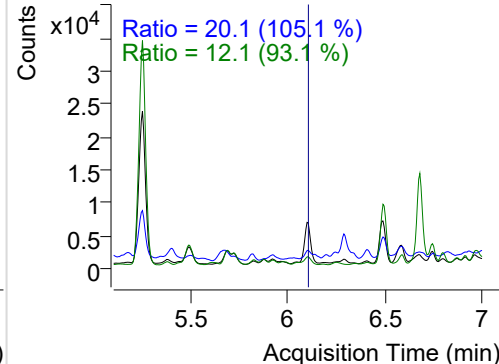
+ SIM (2.971-3.247 min, 52 scans) (**) 230112

**Acenaphthylene**

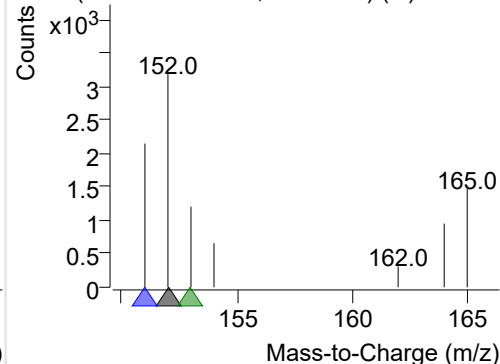
+ Selected Ion (152.0) 230112-PAHs-020.D



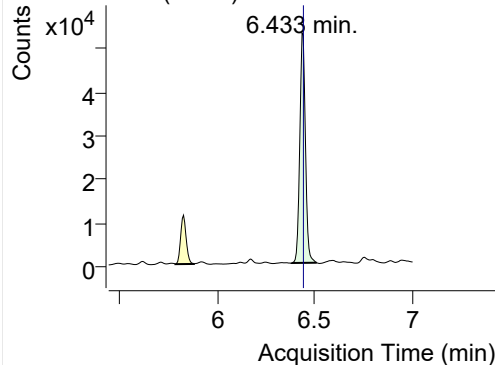
152.0, 151.0, 153.0



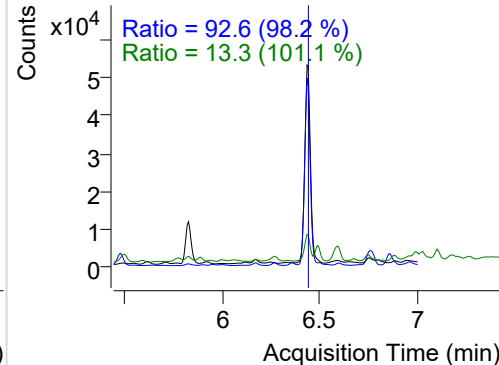
+ SIM (6.060-6.155 min, 16 scans) (**) 230112

**IS-D10-Acenaphthene**

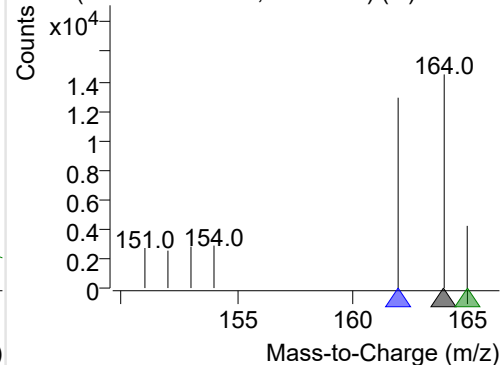
+ Selected Ion (164.0) 230112-PAHs-020.D



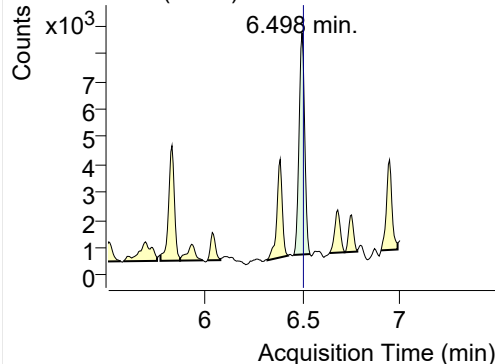
164.0, 162.0, 165.0



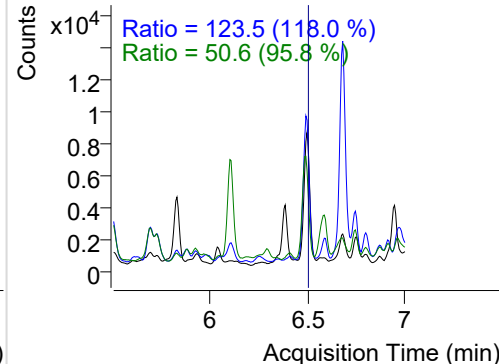
+ SIM (6.380-6.509 min, 22 scans) (**) 230112

**Acenaphthene**

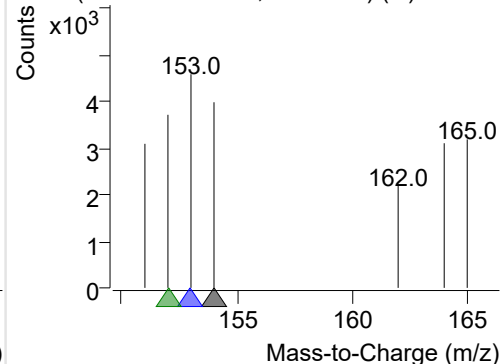
+ Selected Ion (154.0) 230112-PAHs-020.D



154.0, 153.0, 152.0

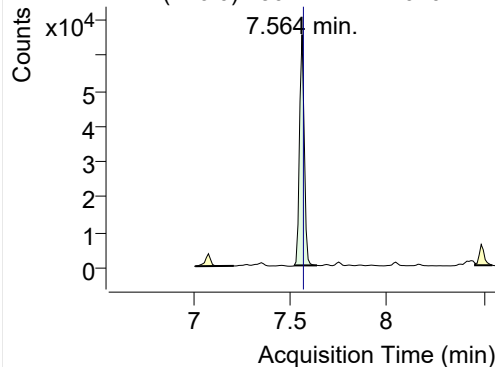


+ SIM (6.455-6.539 min, 14 scans) (**) 230112

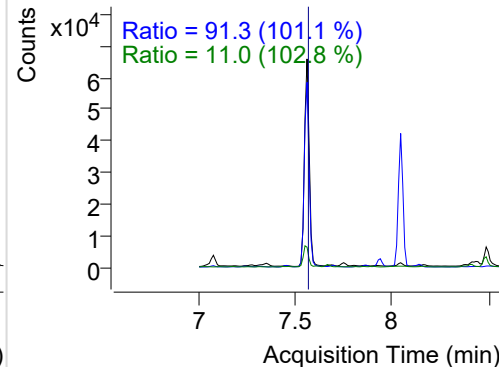


LSS-D10-Fluorene

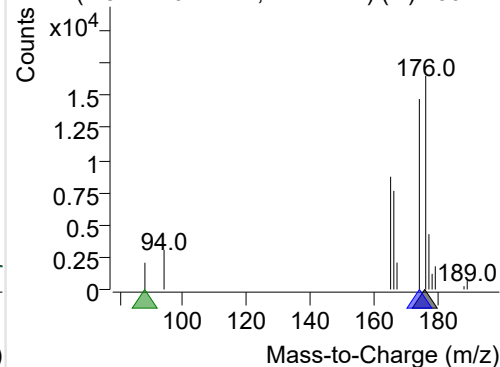
+ Selected Ion (176.0) 230112-PAHs-020.D



176.0, 174.0, 88.0

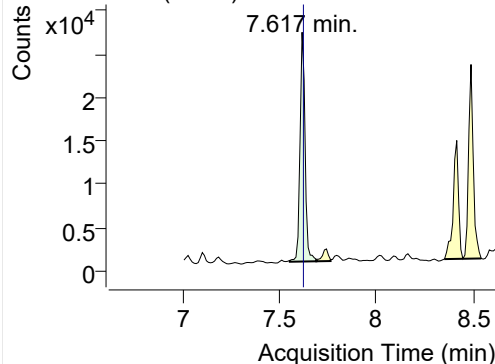


+ SIM (7.524-7.641 min, 11 scans) (**) 230112

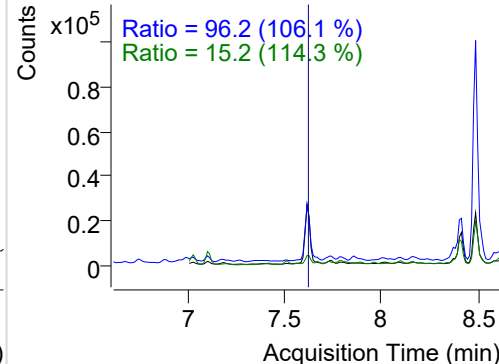


Fluorene

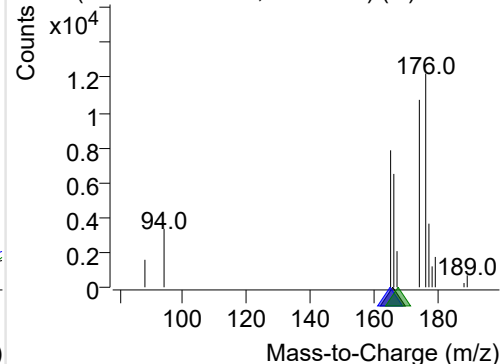
+ Selected Ion (166.0) 230112-PAHs-020.D



166.0, 165.0, 167.0

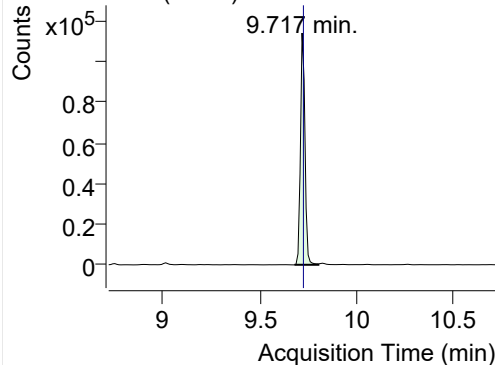


+ SIM (7.554-7.690 min, 14 scans) (**) 230112

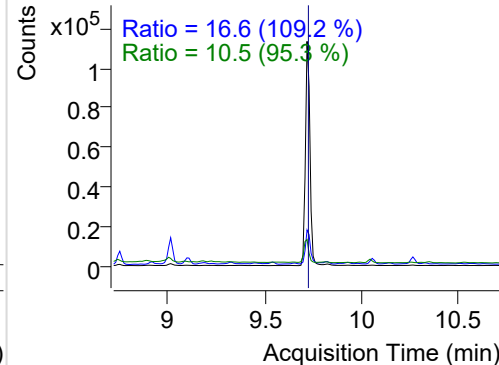


IS-D10-Phenanthrene

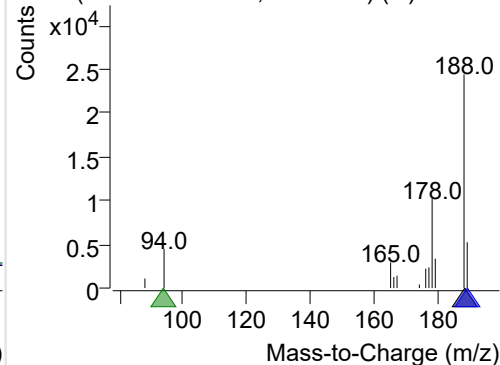
+ Selected Ion (188.0) 230112-PAHs-020.D



188.0, 189.0, 94.0

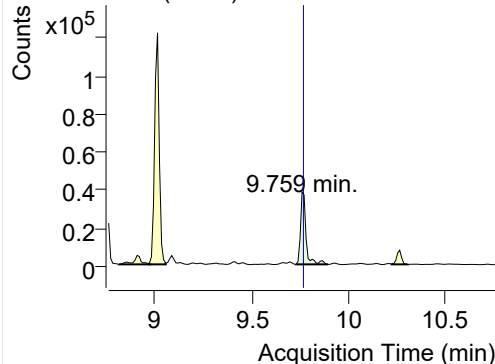


+ SIM (9.678-9.801 min, 12 scans) (**) 230112

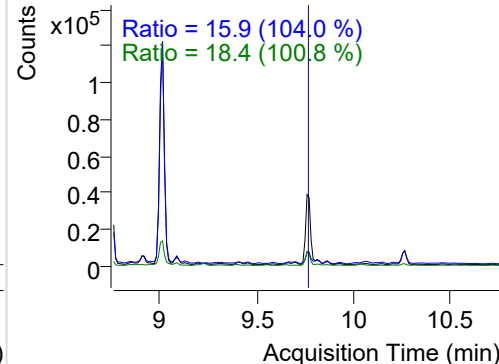


Phenanthrene

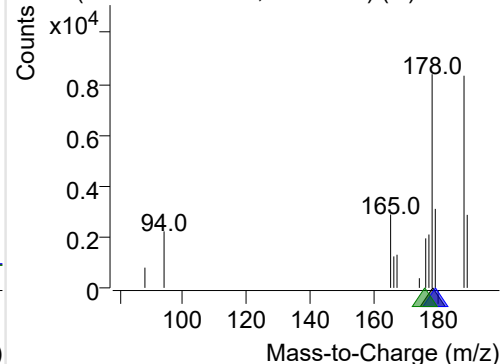
+ Selected Ion (178.0) 230112-PAHs-020.D



178.0, 179.0, 176.0

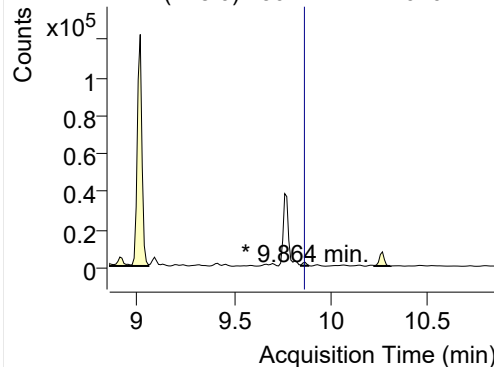


+ SIM (9.727-9.893 min, 16 scans) (**) 230112

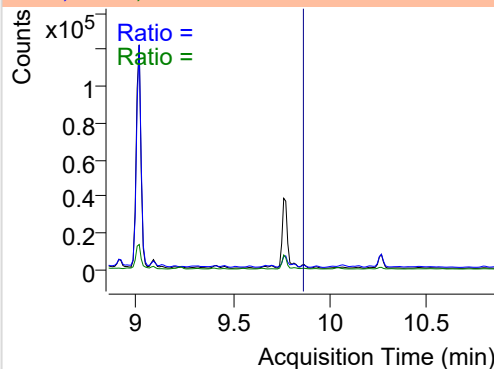


Anthracene

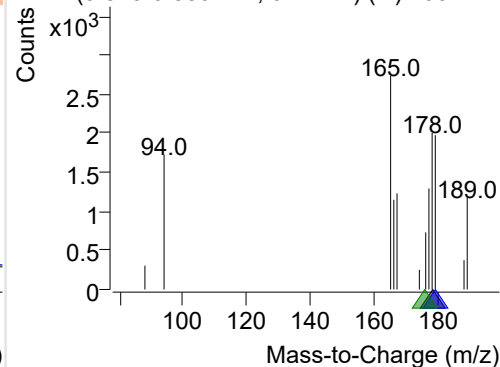
+ Selected Ion (178.0) 230112-PAHs-020.D



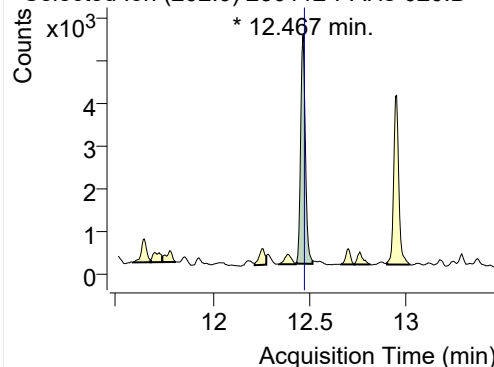
178.0, 179.0, 176.0



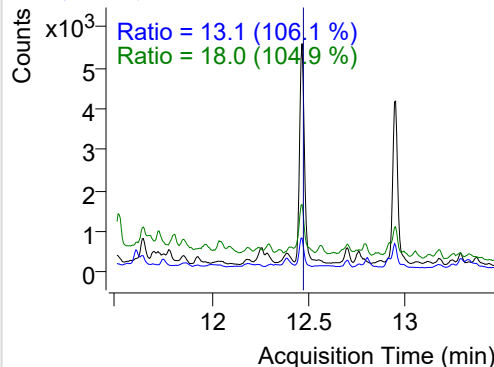
+ SIM (9.843-9.885 min, 5 scans) (**) 230112-I

**Fluoranthene**

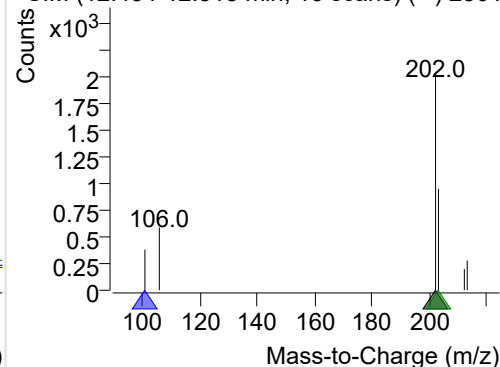
+ Selected Ion (202.0) 230112-PAHs-020.D



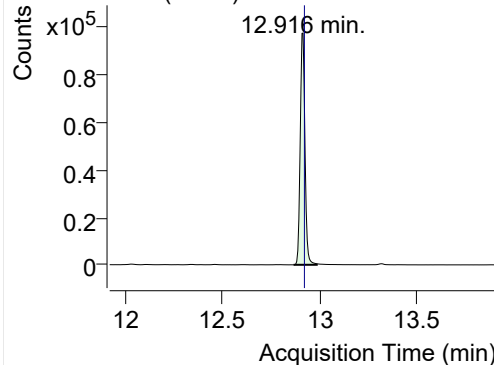
202.0, 101.0, 203.0



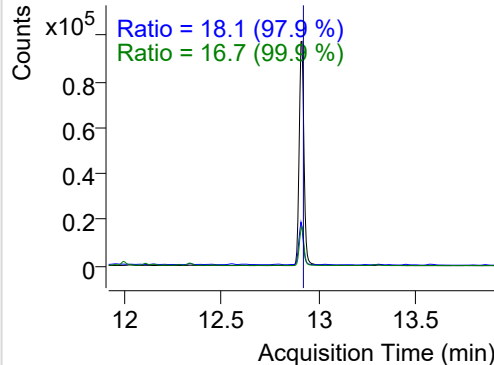
+ SIM (12.434-12.515 min, 16 scans) (**) 2301

**LSS-D10-Pyrene**

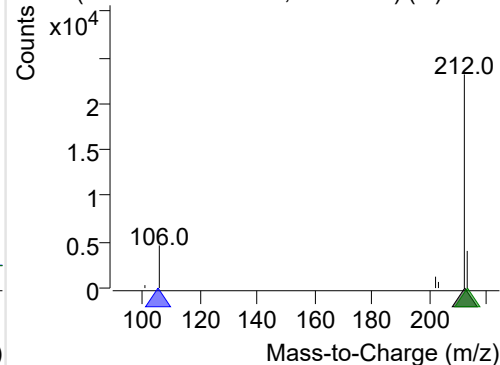
+ Selected Ion (212.0) 230112-PAHs-020.D



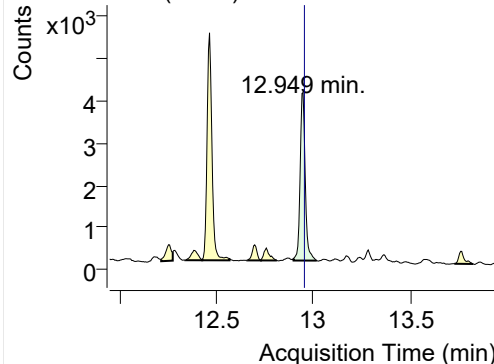
212.0, 106.0, 213.0



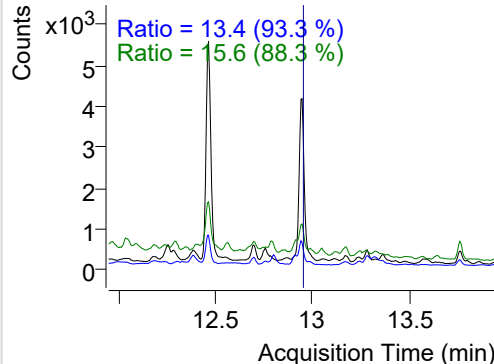
+ SIM (12.868-12.987 min, 22 scans) (**) 2301

**Pyrene**

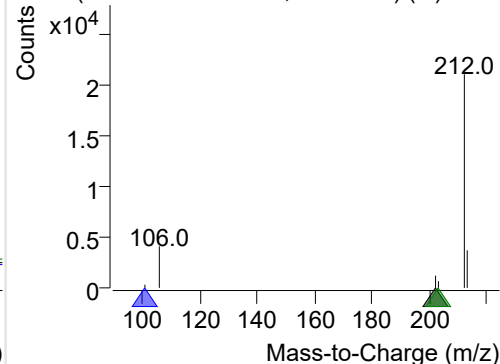
+ Selected Ion (202.0) 230112-PAHs-020.D



202.0, 101.0, 203.0



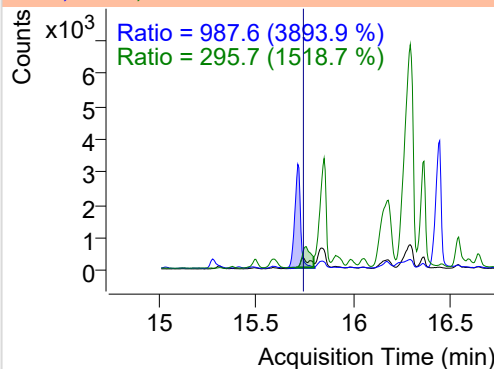
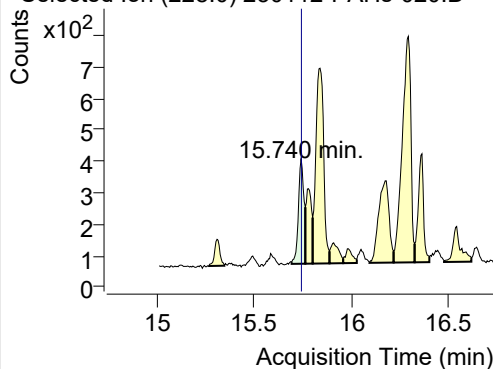
+ SIM (12.900-13.020 min, 23 scans) (**) 2301



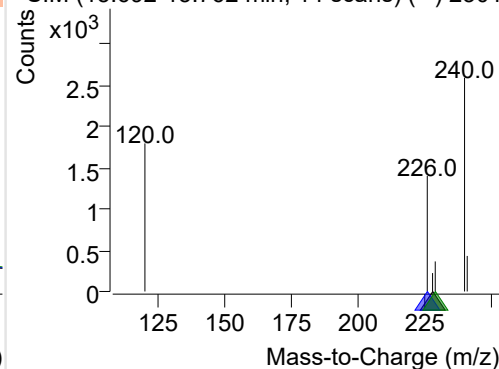
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-020.D

228.0, 226.0, 229.0

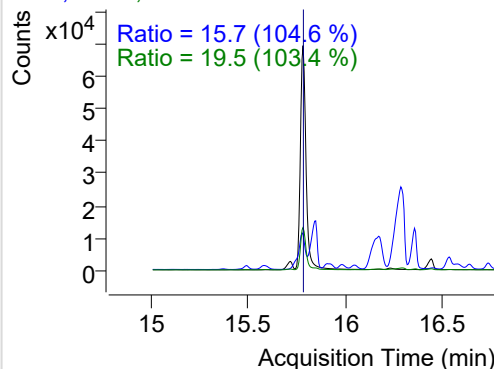
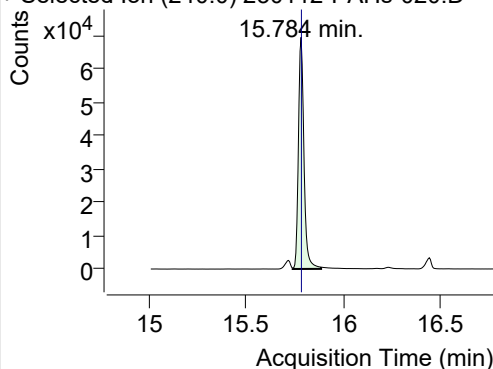


+ SIM (15.692-15.762 min, 14 scans) (**) 2301

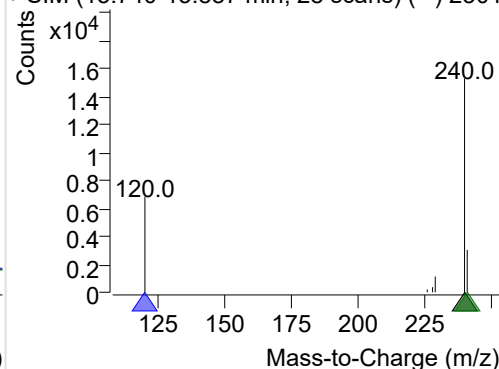
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-020.D

240.0, 120.0, 241.0

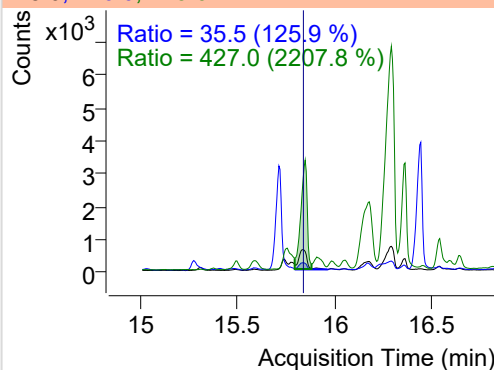
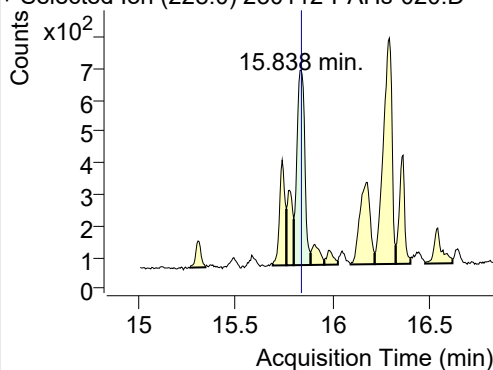


+ SIM (15.740-15.887 min, 28 scans) (**) 2301

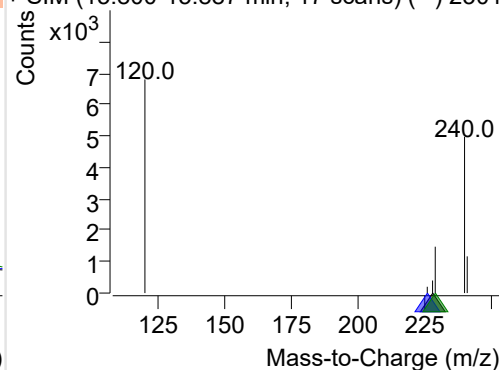
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-020.D

228.0, 226.0, 229.0

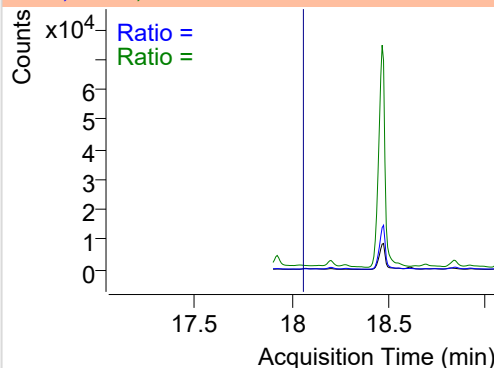
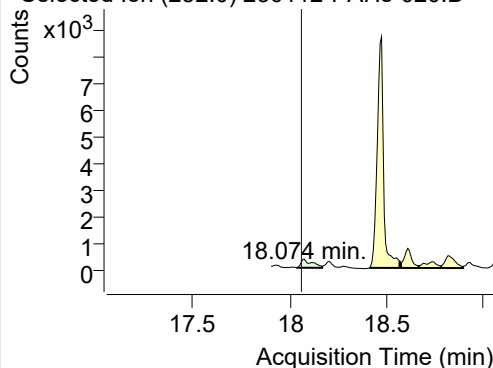


+ SIM (15.800-15.887 min, 17 scans) (**) 2301

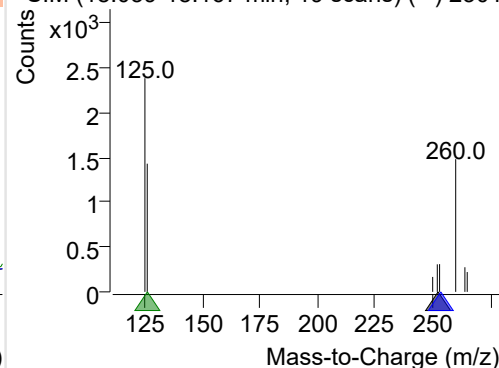
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-020.D

252.0, 253.0, 126.0



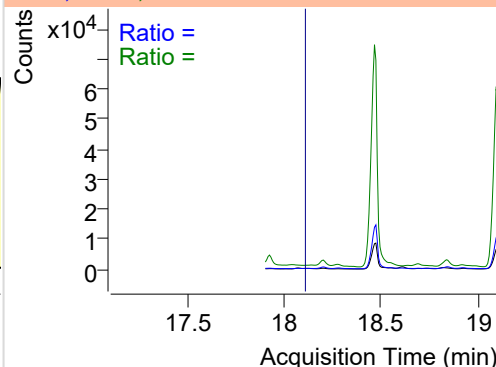
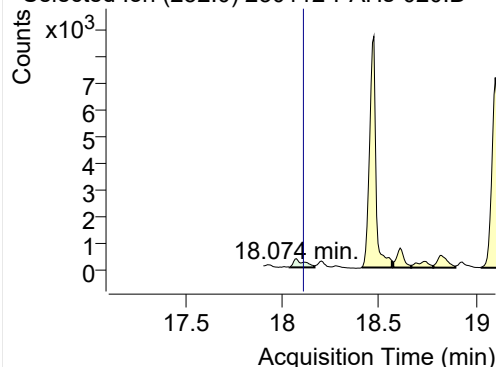
+ SIM (18.039-18.167 min, 19 scans) (**) 2301



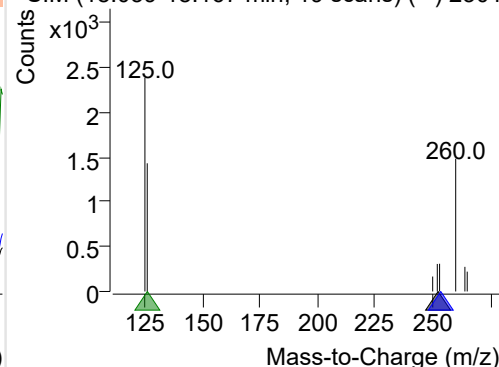
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-020.D

252.0, 253.0, 126.0

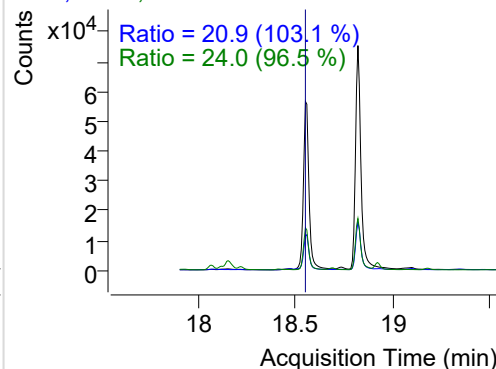
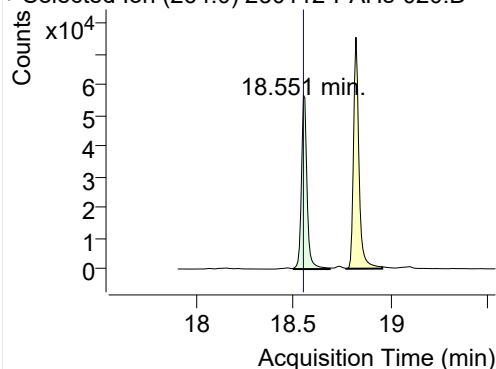


+ SIM (18.039-18.167 min, 19 scans) (**) 2301

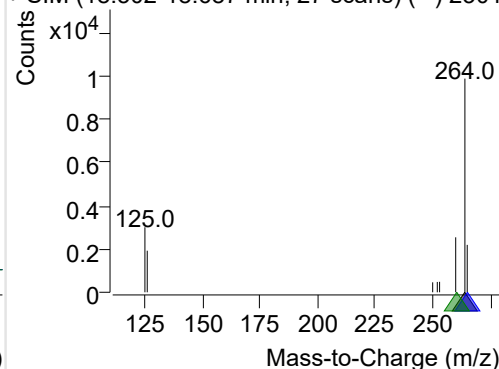
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-020.D

264.0, 265.0, 260.0

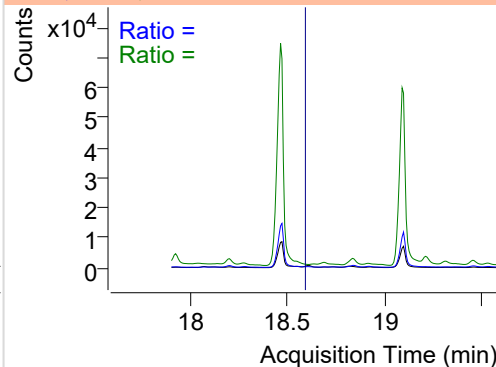
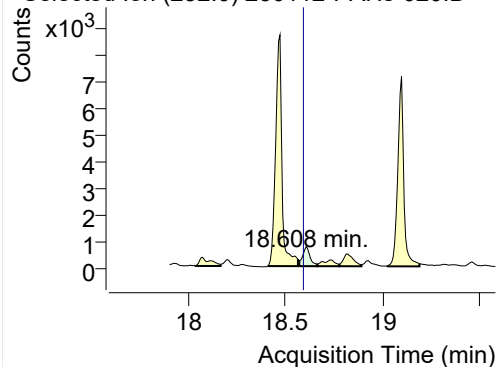


+ SIM (18.502-18.687 min, 27 scans) (**) 2301

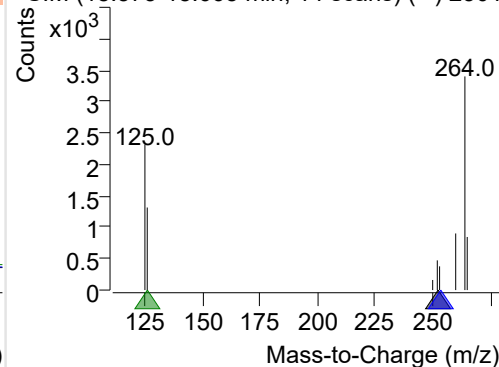
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-020.D

252.0, 253.0, 126.0

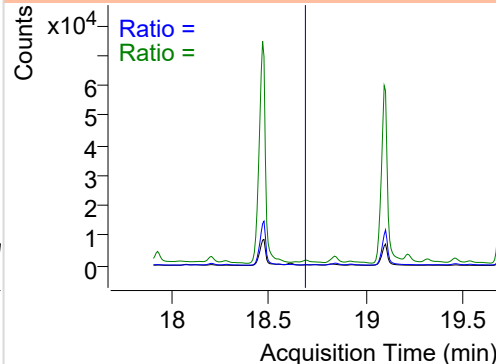
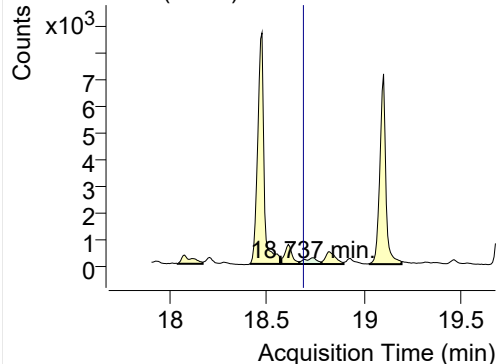


+ SIM (18.573-18.665 min, 14 scans) (**) 2301

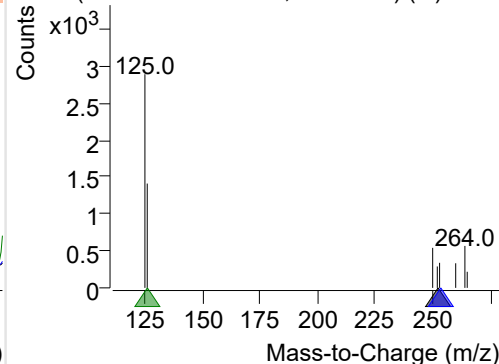
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-020.D

252.0, 253.0, 126.0

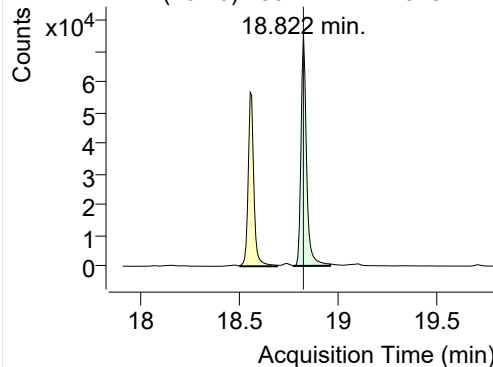


+ SIM (18.665-18.779 min, 17 scans) (**) 2301

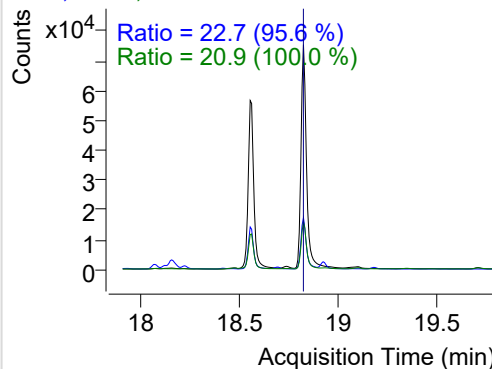


IS-D12-Perylene

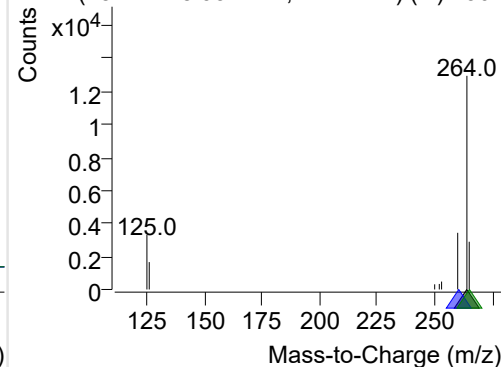
+ Selected Ion (264.0) 230112-PAHs-020.D



264.0, 260.0, 265.0

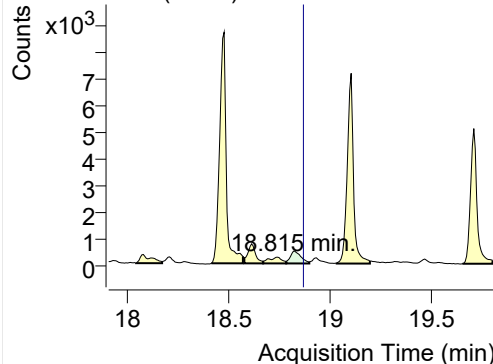


+ SIM (18.772-18.957 min, 27 scans) (**) 2301

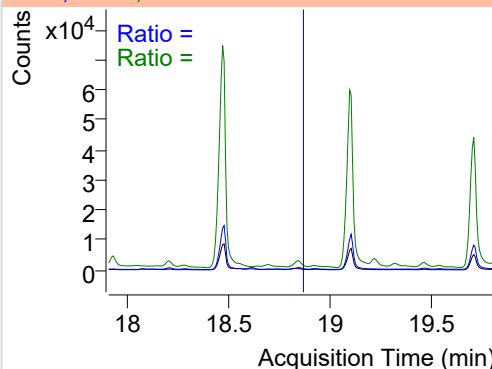


Perylene

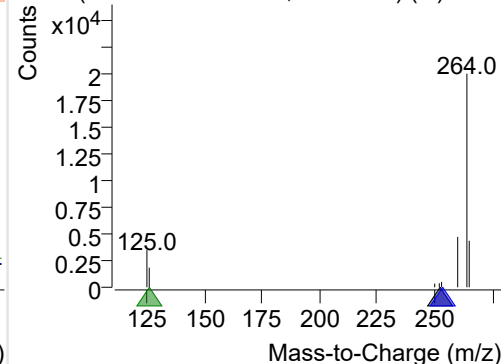
+ Selected Ion (252.0) 230112-PAHs-020.D



252.0, 253.0, 126.0

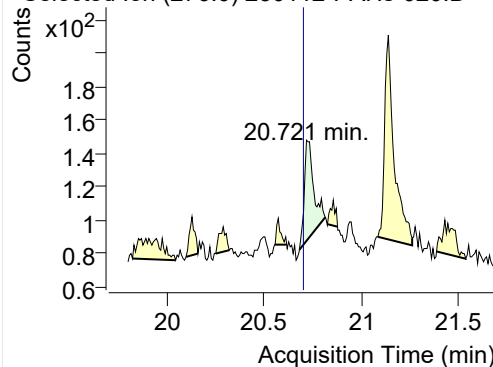


+ SIM (18.779-18.893 min, 17 scans) (**) 2301

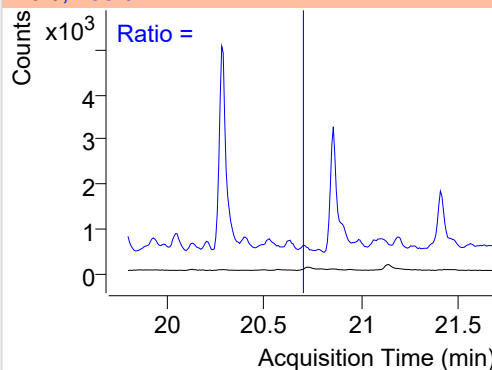


Indeno(1,2,3-c,d)pyrene

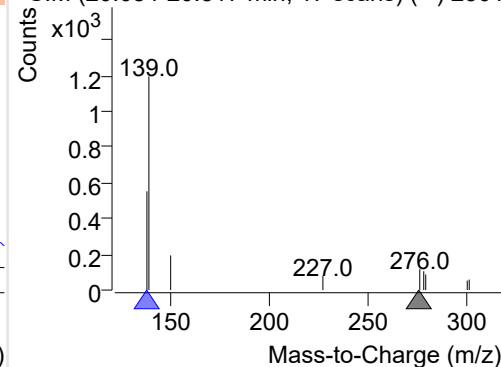
+ Selected Ion (276.0) 230112-PAHs-020.D



276.0, 138.0

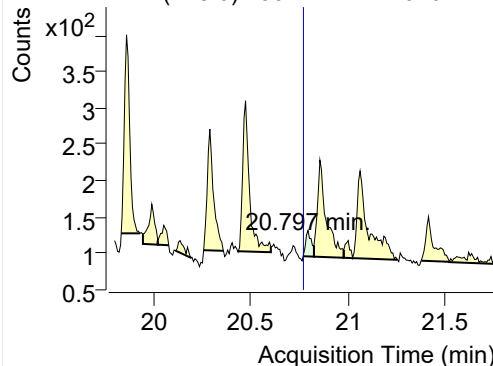


+ SIM (20.684-20.817 min, 17 scans) (**) 2301

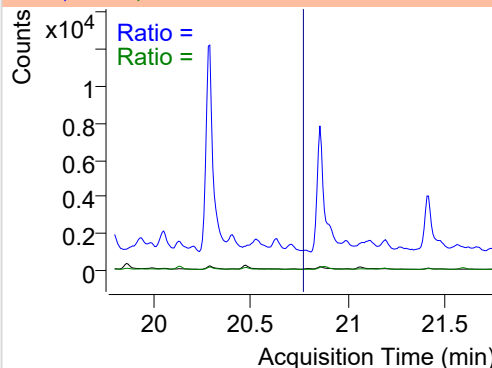


Dibenz(a,h)anthracene

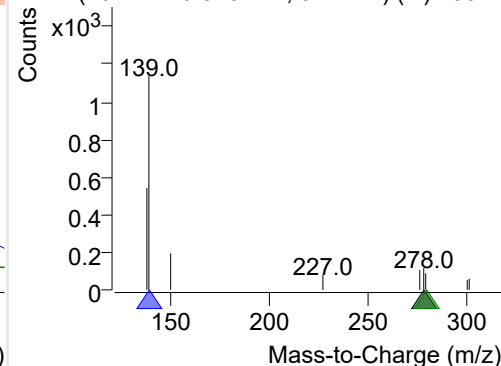
+ Selected Ion (278.0) 230112-PAHs-020.D



278.0, 139.0, 279.0



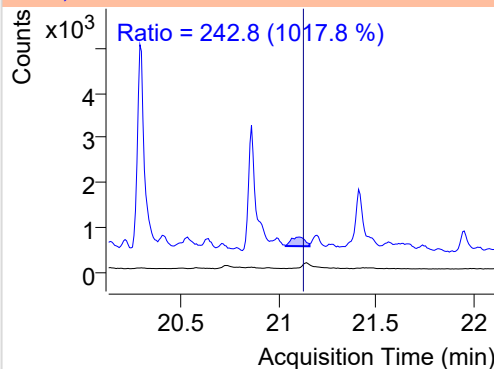
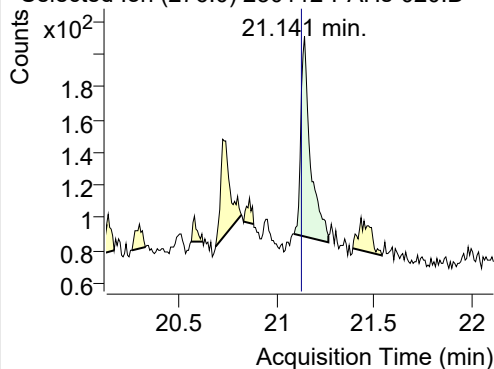
+ SIM (20.772-20.828 min, 8 scans) (**) 23011



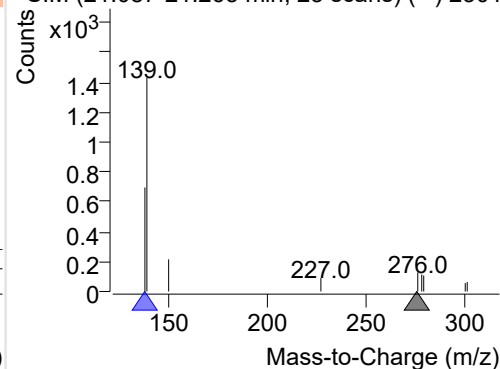
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-020.D

276.0, 138.0

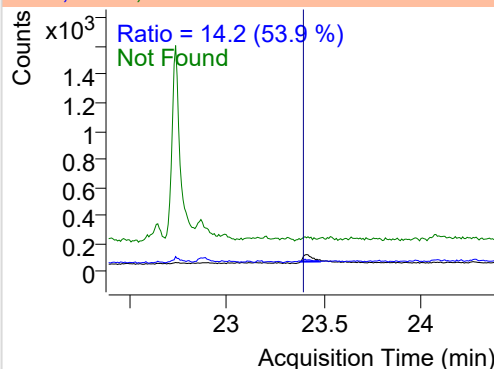
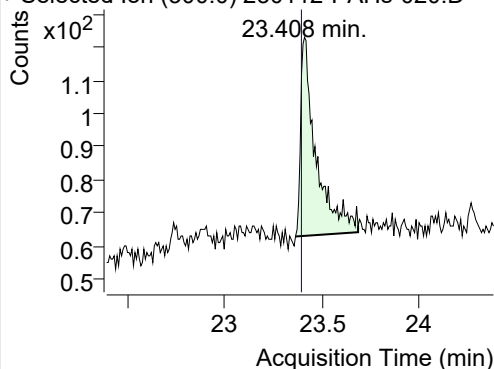


+ SIM (21.087-21.263 min, 23 scans) (**) 2301

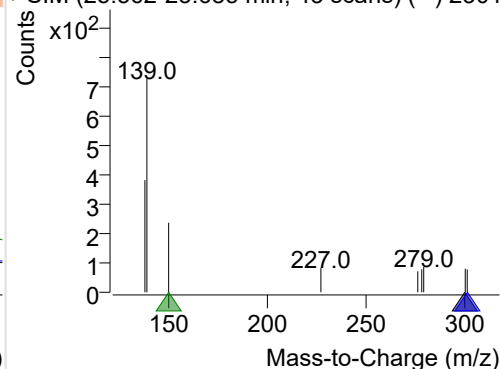
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-020.D

300.0, 301.0, 150.0



+ SIM (23.362-23.683 min, 43 scans) (**) 2301



Quantitative Analysis Sample Based Report

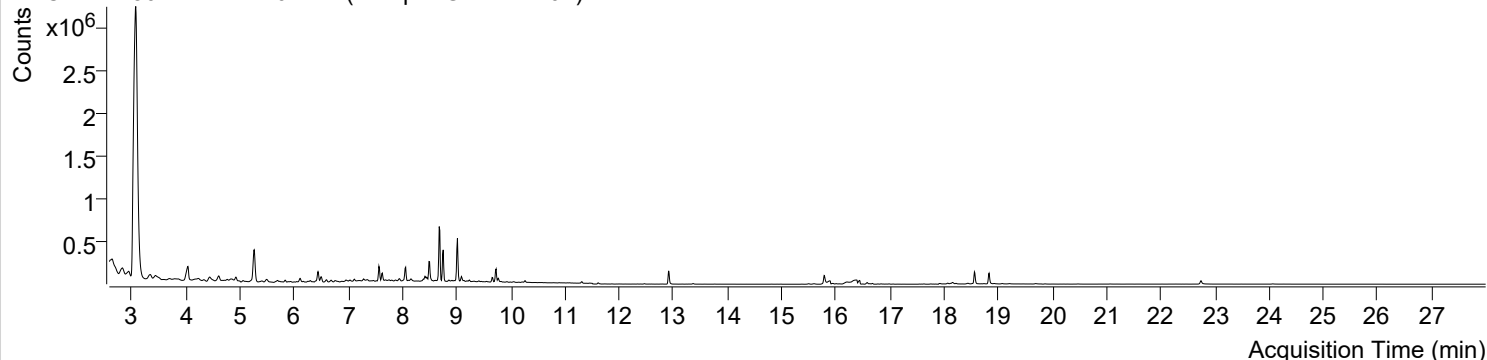


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 10:07:35	Data File	230112-PAHs-021.D
Type	Sample	Name	Sample-Gas-221207
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

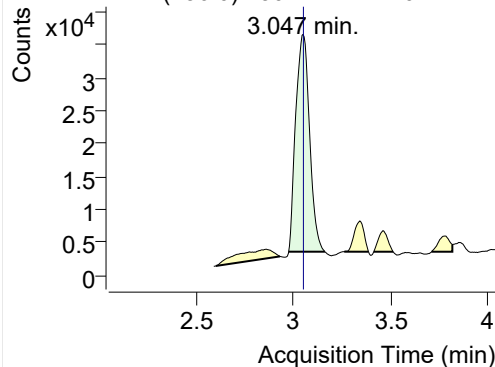
+ TIC SIM 230112-PAHs-021.D (Sample-Gas-221207)



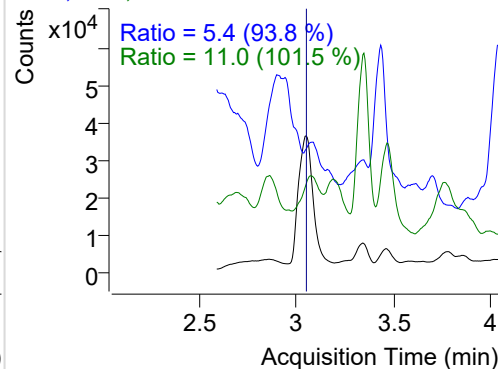
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.047	136.0	163974	33101.69	ND ng/ml	11.0
Naphthalene	3.074	128.0	12662738	2527295.14	ND ng/ml	13.3
Acenaphthylene	6.108	152.0	69654	32608.45	ND ng/ml	17.5
IS-D10-Acenaphthene	6.439	164.0	123978	58944.70	ND ng/ml	86.0
Acenaphthene	6.504	154.0	31323	15076.48	ND ng/ml	111.3
LSS-D10-Fluorene	7.564	176.0	128153	73469.64	ND ng/ml	90.9
Fluorene	7.627	166.0	83778	44787.00	ND ng/ml	95.9
IS-D10-Phenanthrene	9.727	188.0	200506	123656.18	ND ng/ml	16.5
Phenanthrene	9.769	178.0	45952	27076.67	ND ng/ml	18.3
Anthracene	9.864	178.0	2029	1439.68	ND ng/ml	
Fluoranthene	12.466	202.0	5033	3119.58	ND ng/ml	22.4
LSS-D10-Pyrene	12.916	212.0	190681	111308.09	ND ng/ml	17.9
Pyrene	12.949	202.0	6685	3588.59	ND ng/ml	17.9
Benz(a)anthracene	15.784	228.0	1069	351.57	ND ng/ml	36.2
IS-D12-Chrysene	15.784	240.0	151852	69558.09	ND ng/ml	19.5
Chrysene	15.892	228.0	3250	788.41	ND ng/ml	33.4
Benzo(b)fluoranthene	18.082	252.0	297	133.36	ND ng/ml	
Benzo(k)fluoranthene	18.082	252.0	297	133.36	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.559	264.0	177624	95658.16	ND ng/ml	24.2
Benzo(e)pyrene	18.559	252.0	974	377.50	ND ng/ml	39.1
Benzo(a)pyrene	18.736	252.0	271	145.11	ND ng/ml	40.0
IS-D12-Perylene	18.829	264.0	162743	86110.42	ND ng/ml	22.9
Perylene	18.822	252.0	717	316.18	ND ng/ml	33.4
Indeno(1,2,3-c,d)pyrene	20.728	276.0	148	47.47	ND ng/ml	
Dibenz(a,h)anthracene	20.598	278.0	207	67.31	ND ng/ml	
Benzo(g,h,i)perylene	21.125	276.0	440	82.11	ND ng/ml	249.2
Coronene	23.416	300.0	224	50.44	ND ng/ml	

IS-D8-Naphthalene

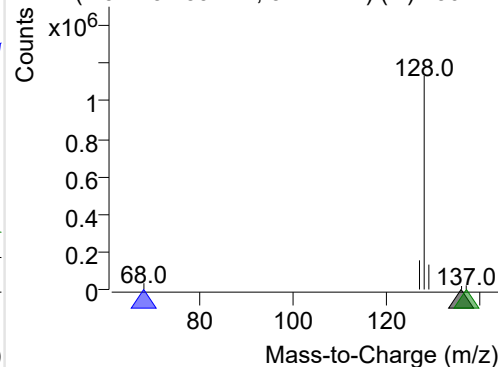
+ Selected Ion (136.0) 230112-PAHs-021.D



136.0, 68.0, 137.0

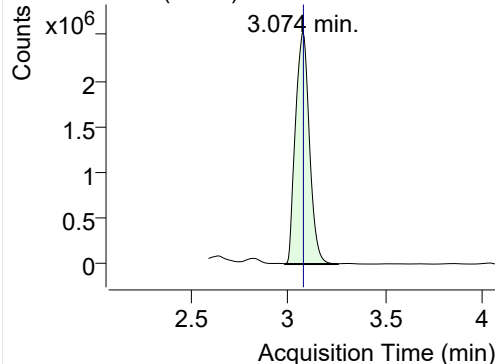


+ SIM (2.972-3.159 min, 34 scans) (**) 230112

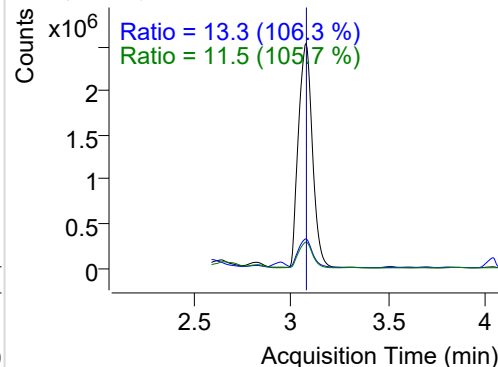


Naphthalene

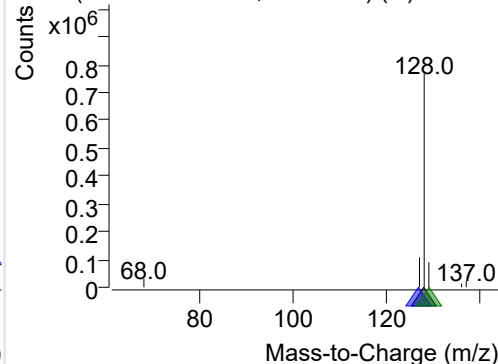
+ Selected Ion (128.0) 230112-PAHs-021.D



128.0, 127.0, 129.0

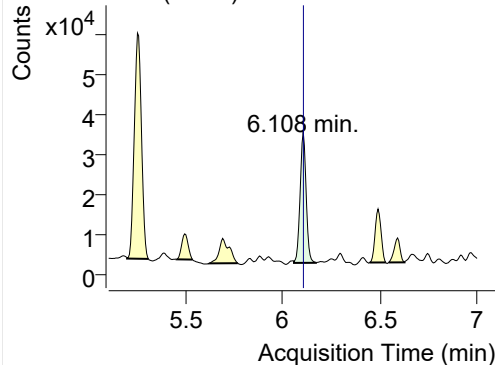


+ SIM (2.982-3.253 min, 51 scans) (**) 230112

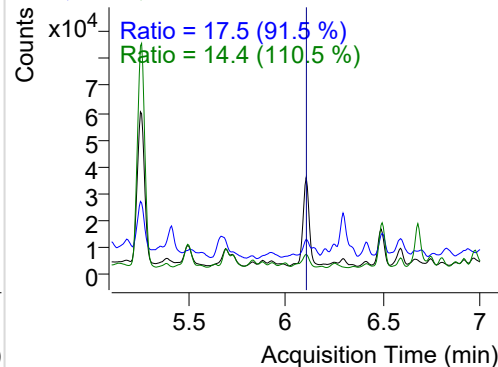


Acenaphthylene

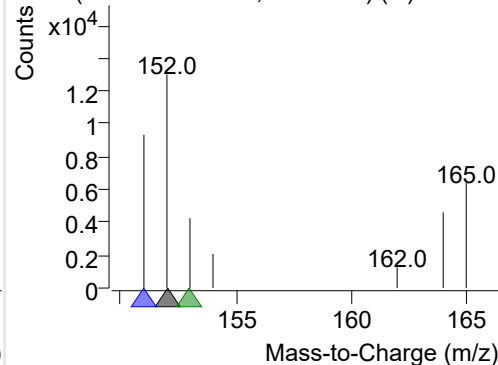
+ Selected Ion (152.0) 230112-PAHs-021.D



152.0, 151.0, 153.0

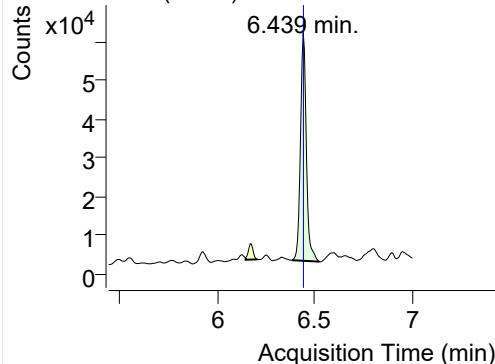


+ SIM (6.060-6.173 min, 20 scans) (**) 230112

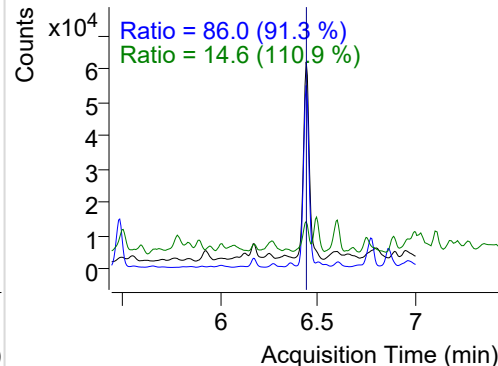


IS-D10-Acenaphthene

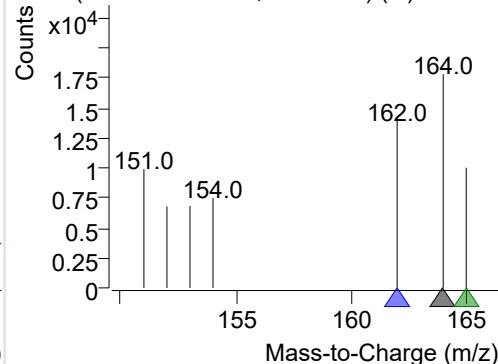
+ Selected Ion (164.0) 230112-PAHs-021.D



164.0, 162.0, 165.0

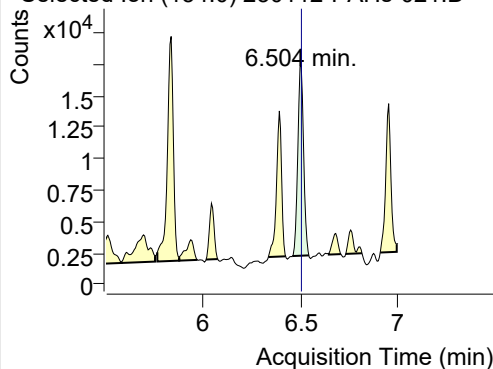


+ SIM (6.386-6.523 min, 24 scans) (**) 230112

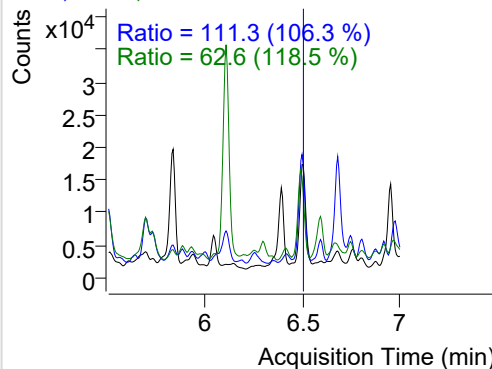


Acenaphthene

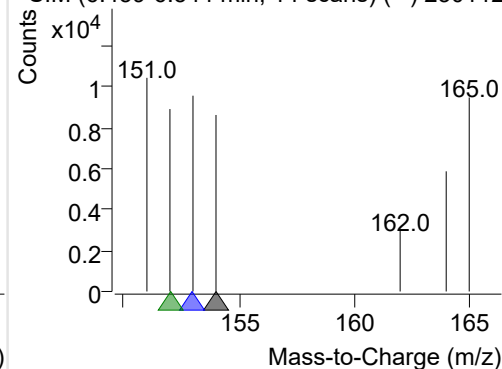
+ Selected Ion (154.0) 230112-PAHs-021.D



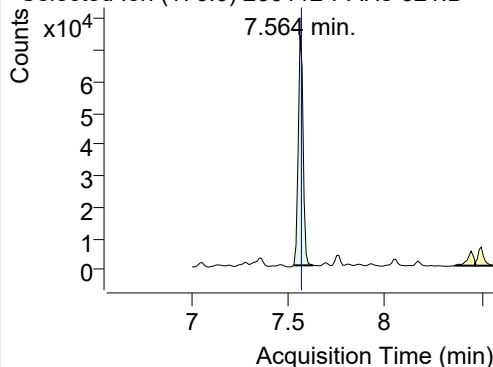
154.0, 153.0, 152.0



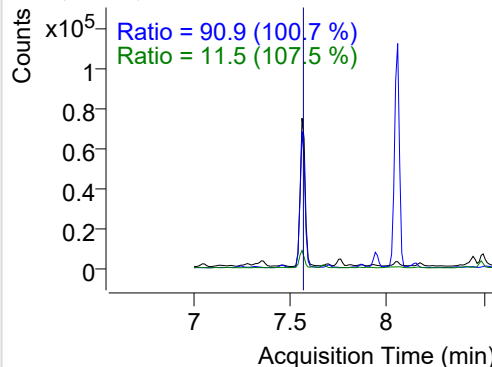
+ SIM (6.459-6.544 min, 14 scans) (**) 230112

**LSS-D10-Fluorene**

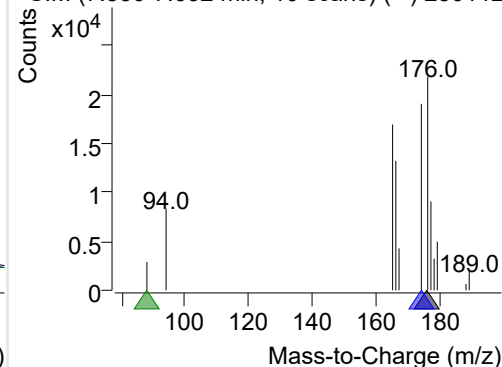
+ Selected Ion (176.0) 230112-PAHs-021.D



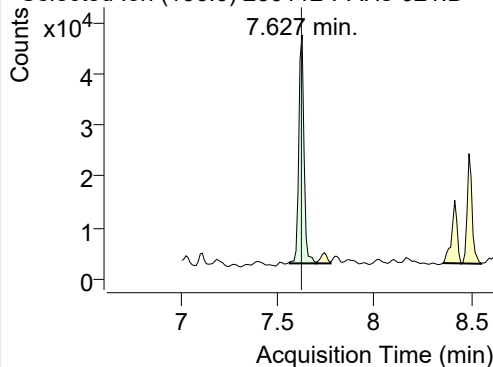
176.0, 174.0, 88.0



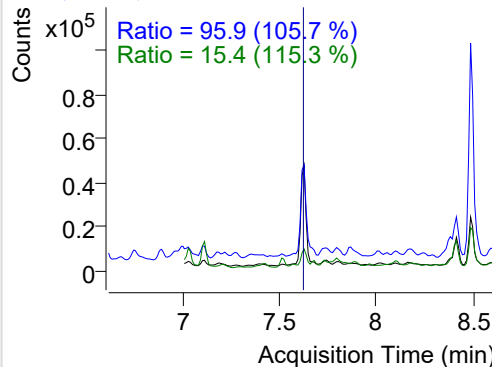
+ SIM (7.530-7.632 min, 10 scans) (**) 230112

**Fluorene**

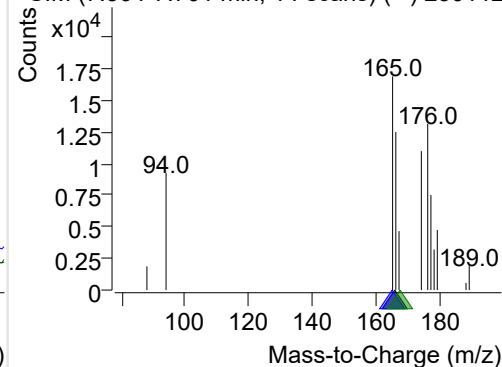
+ Selected Ion (166.0) 230112-PAHs-021.D



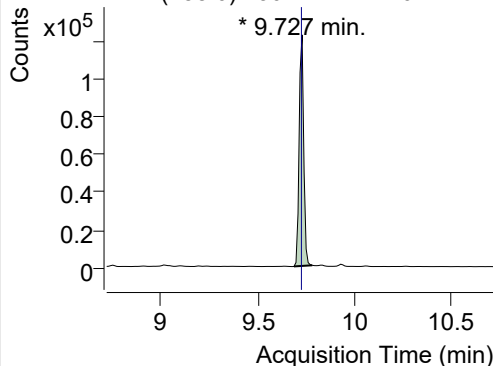
166.0, 165.0, 167.0



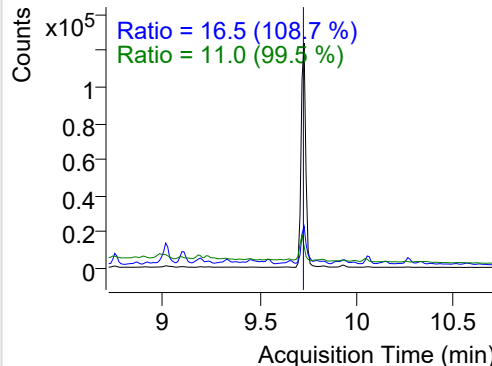
+ SIM (7.564-7.701 min, 14 scans) (**) 230112

**IS-D10-Phenanthrene**

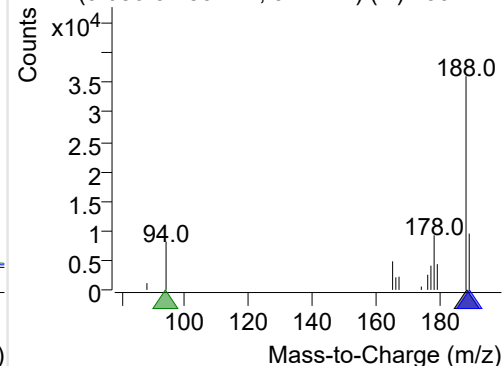
+ Selected Ion (188.0) 230112-PAHs-021.D



188.0, 189.0, 94.0

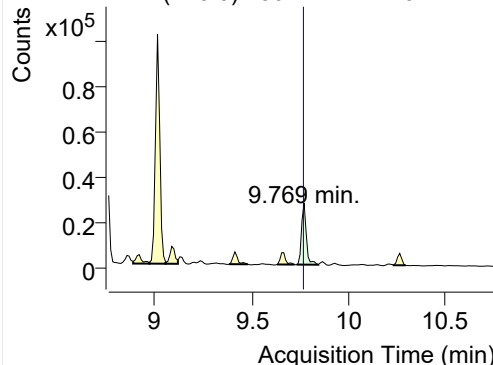


+ SIM (9.686-9.780 min, 9 scans) (**) 230112-I

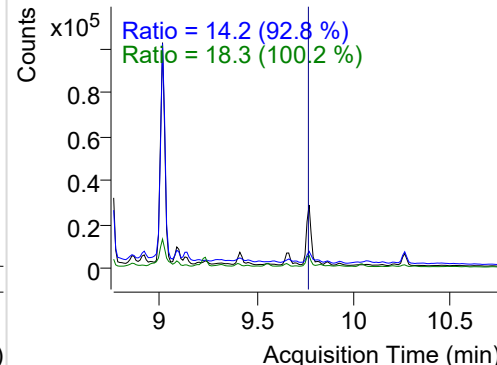


Phenanthrene

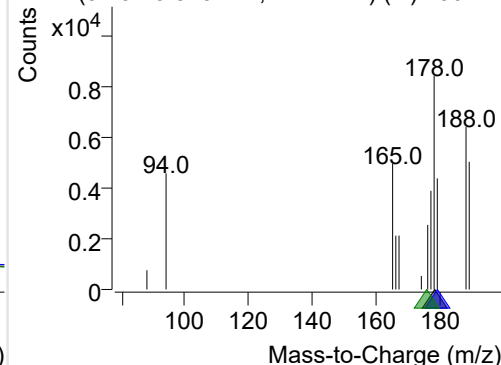
+ Selected Ion (178.0) 230112-PAHs-021.D



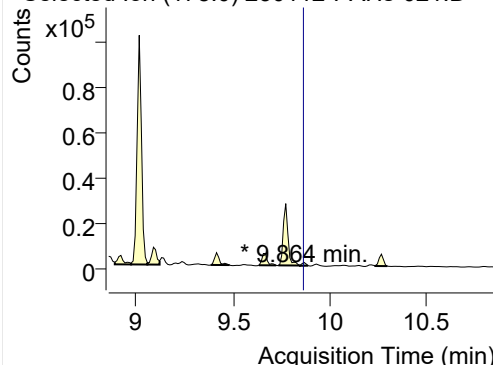
178.0, 179.0, 176.0



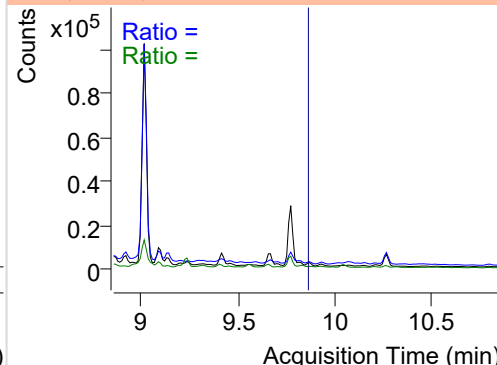
+ SIM (9.731-9.843 min, 11 scans) (**) 230112

**Anthracene**

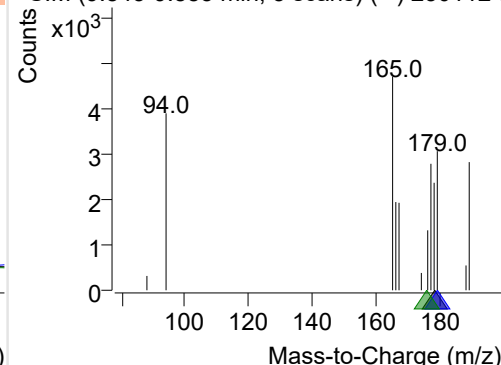
+ Selected Ion (178.0) 230112-PAHs-021.D



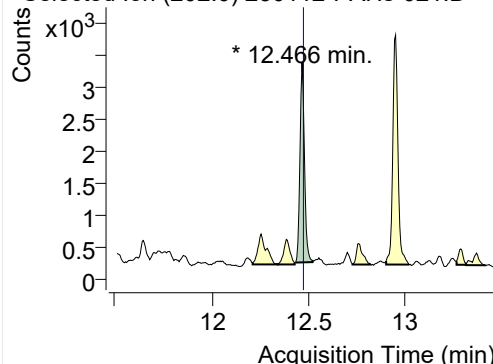
178.0, 179.0, 176.0



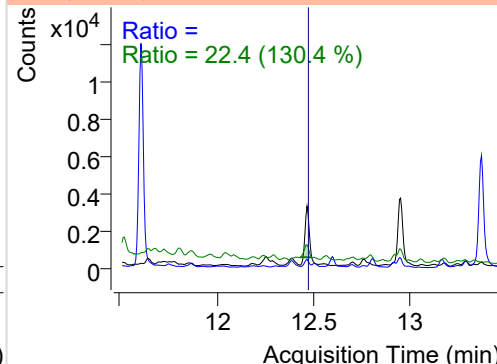
+ SIM (9.843-9.885 min, 5 scans) (**) 230112-I

**Fluoranthene**

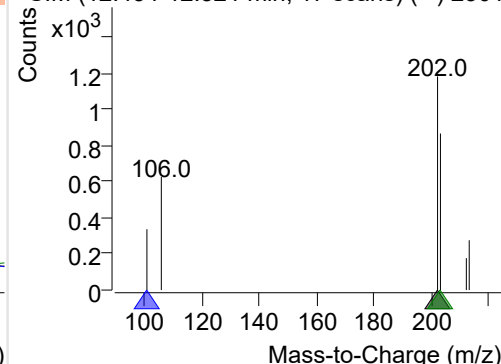
+ Selected Ion (202.0) 230112-PAHs-021.D



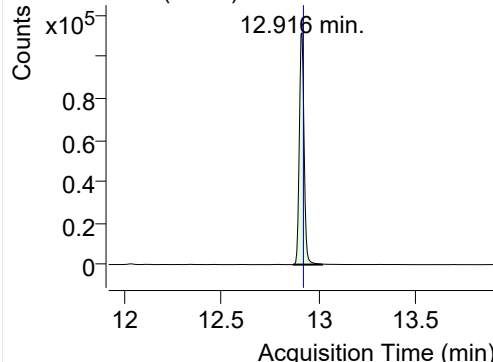
202.0, 101.0, 203.0



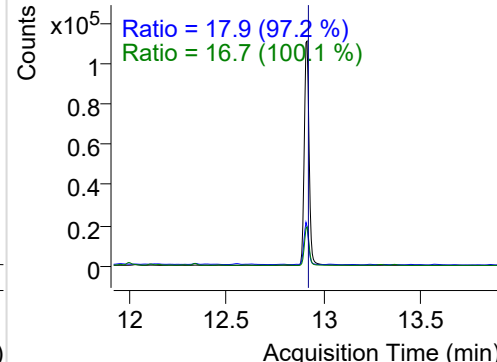
+ SIM (12.434-12.521 min, 17 scans) (**) 2301

**LSS-D10-Pyrene**

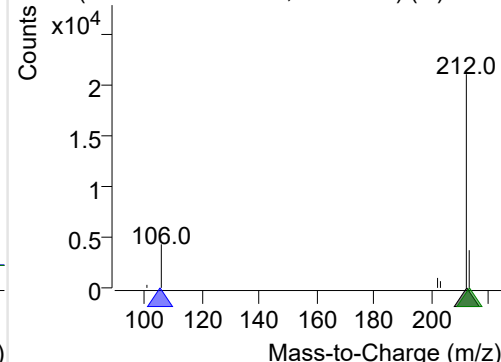
+ Selected Ion (212.0) 230112-PAHs-021.D

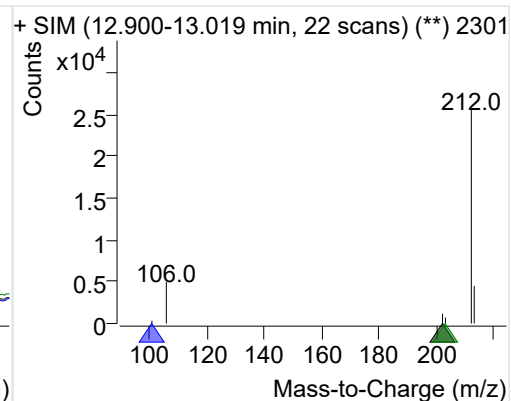
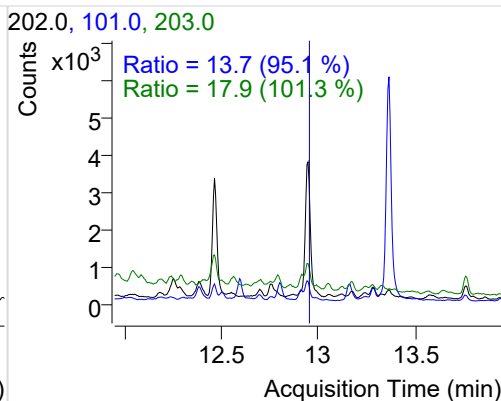
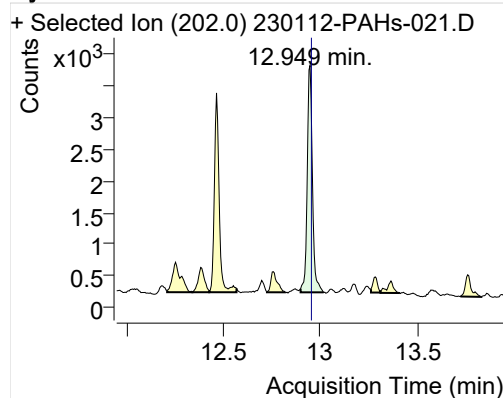
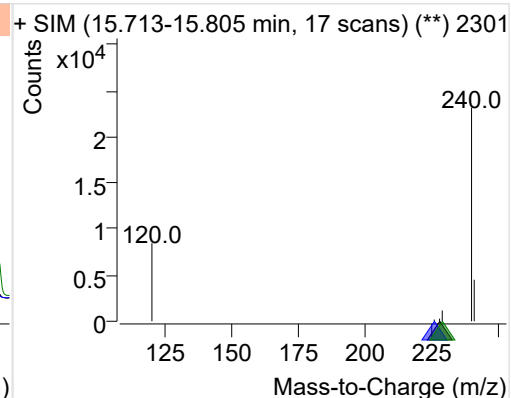
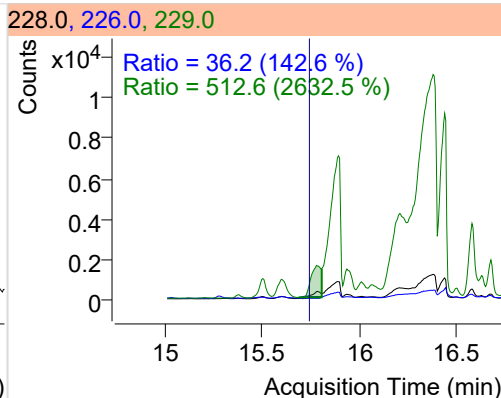
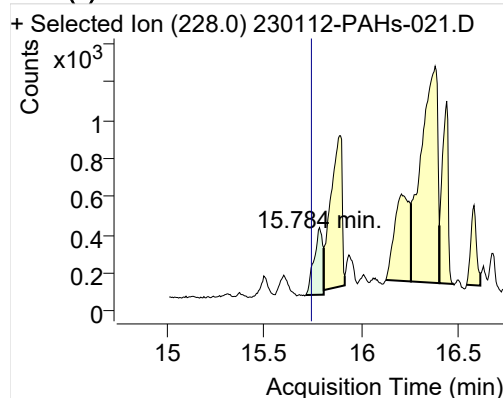
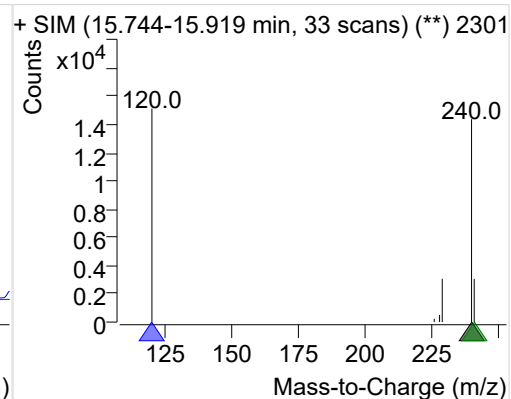
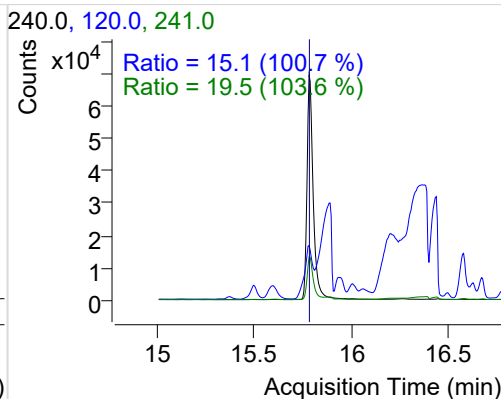
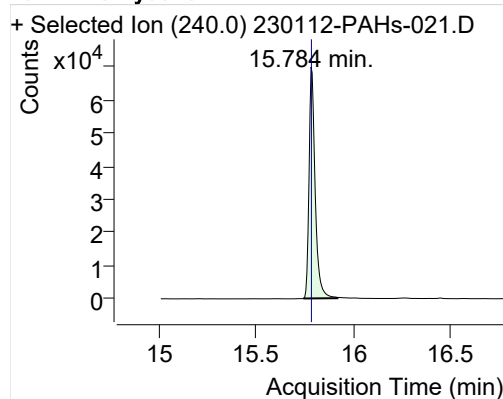
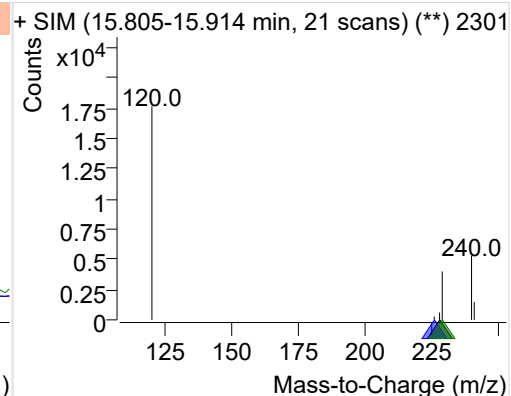
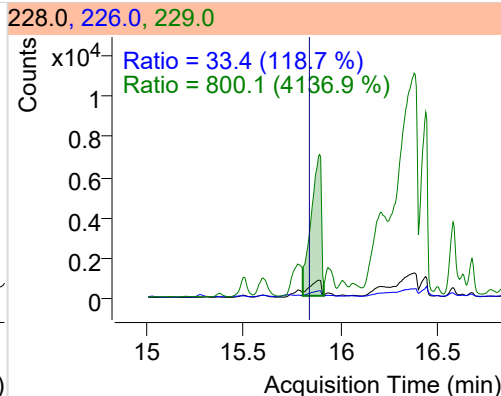
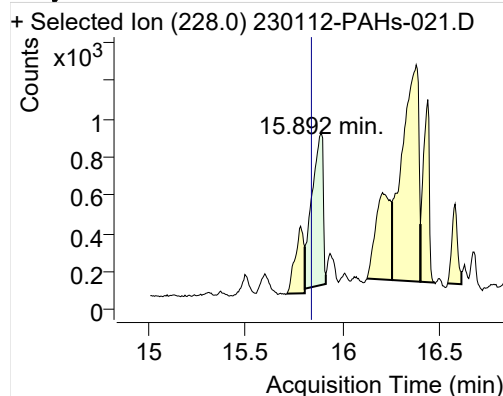


212.0, 106.0, 213.0



+ SIM (12.869-13.019 min, 28 scans) (**) 2301

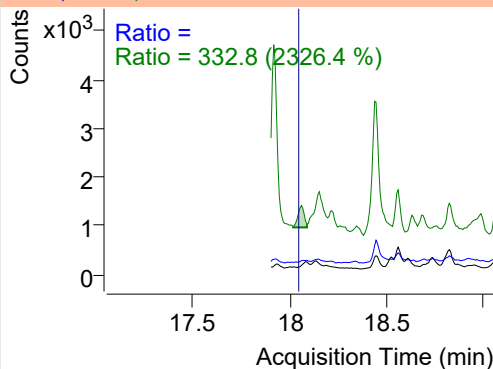
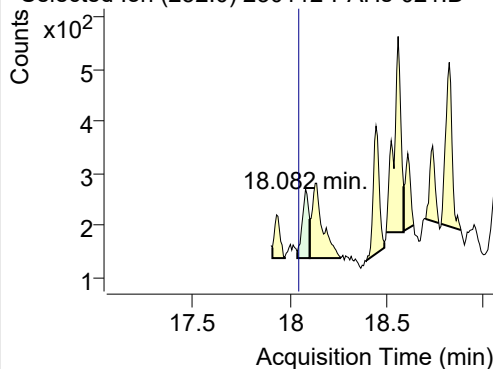


Pyrene**Benz(a)anthracene****IS-D12-Chrysene****Chrysene**

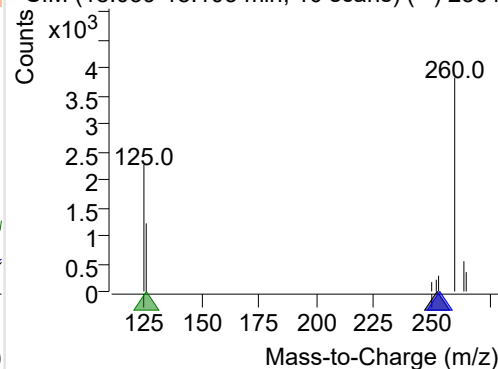
Benzo(b)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-021.D

252.0, 253.0, 126.0

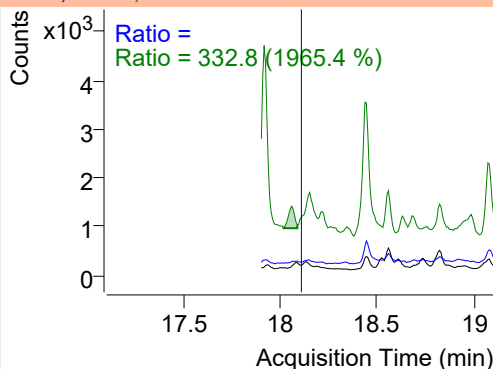
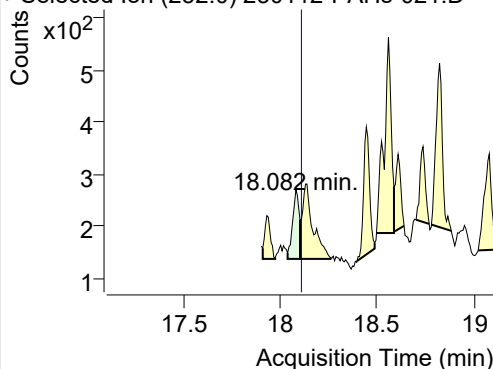


+ SIM (18.039-18.103 min, 10 scans) (**) 2301

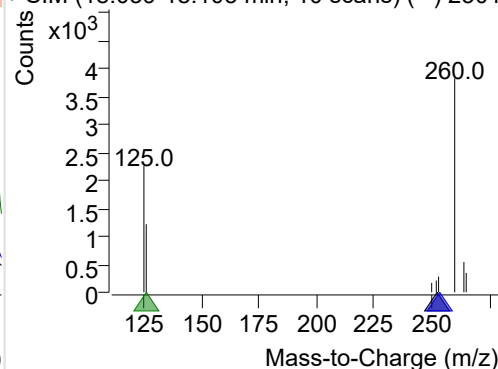
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-021.D

252.0, 253.0, 126.0

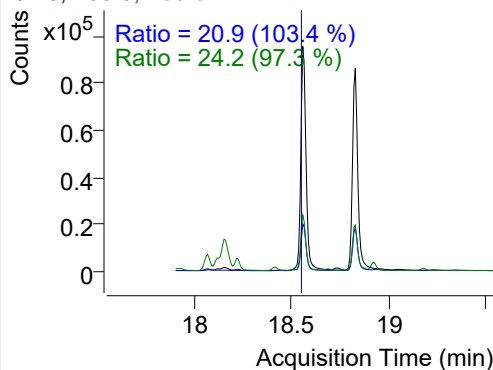
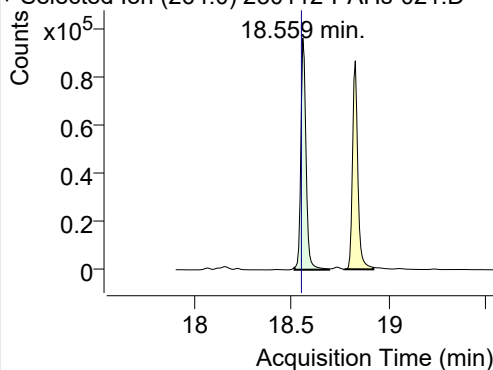


+ SIM (18.039-18.103 min, 10 scans) (**) 2301

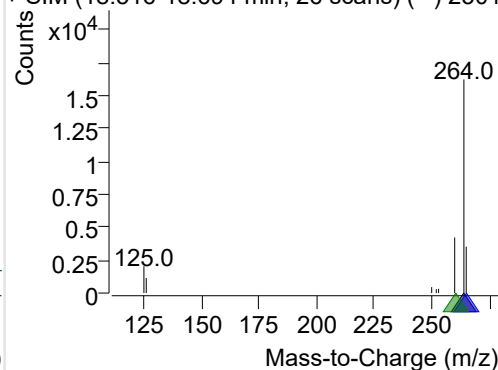
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-021.D

264.0, 265.0, 260.0

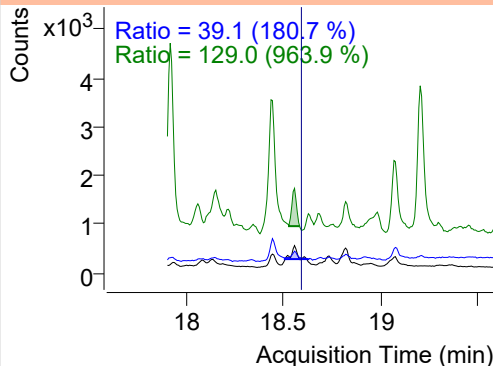
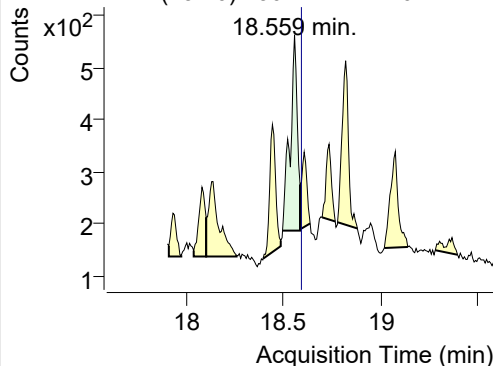


+ SIM (18.516-18.694 min, 26 scans) (**) 2301

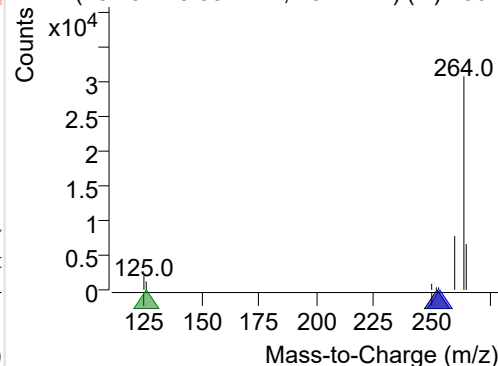
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-021.D

252.0, 253.0, 126.0



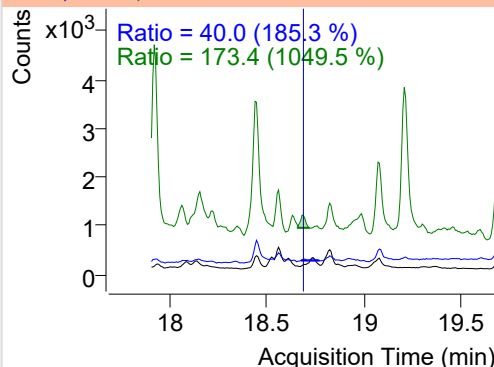
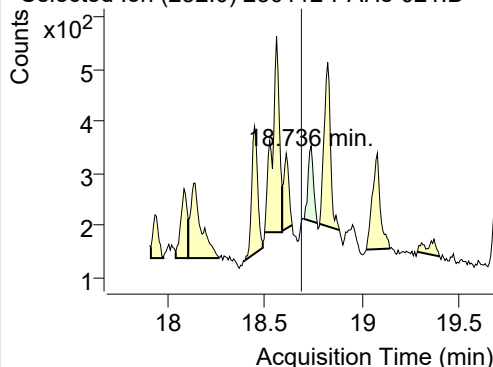
+ SIM (18.497-18.587 min, 13 scans) (**) 2301



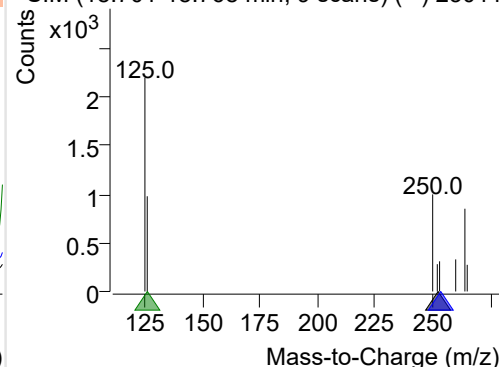
Benzo(a)pyrene

+ Selected Ion (252.0) 230112-PAHs-021.D

252.0, 253.0, 126.0

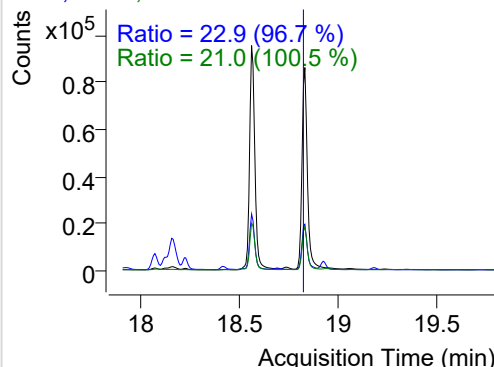
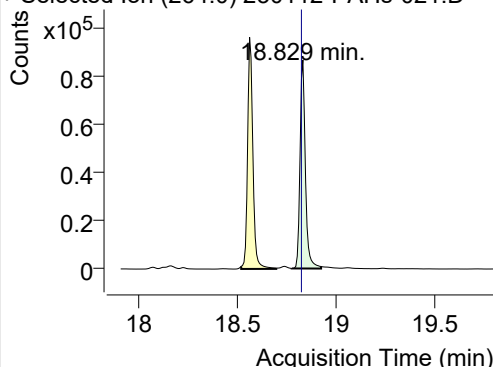


+ SIM (18.701-18.768 min, 9 scans) (**) 23011

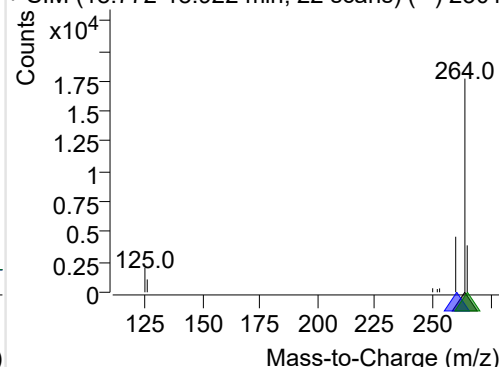
**IS-D12-Perylene**

+ Selected Ion (264.0) 230112-PAHs-021.D

264.0, 260.0, 265.0

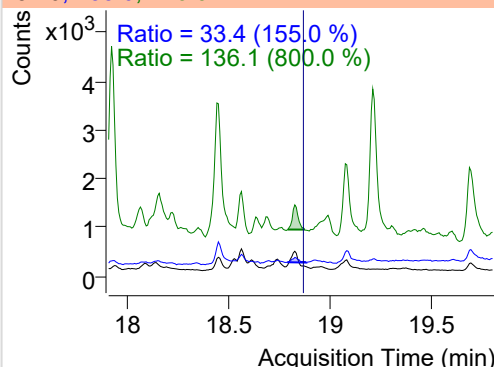
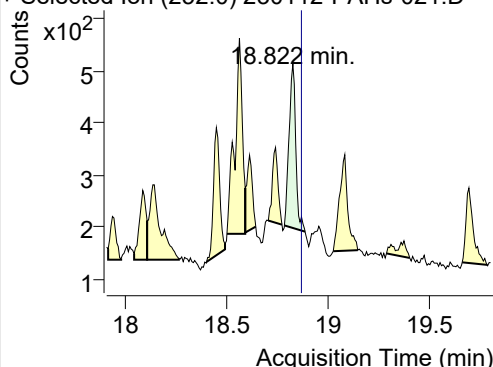


+ SIM (18.772-18.922 min, 22 scans) (**) 23011

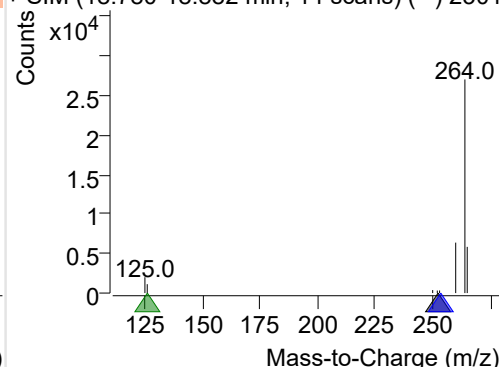
**Perylene**

+ Selected Ion (252.0) 230112-PAHs-021.D

252.0, 253.0, 126.0

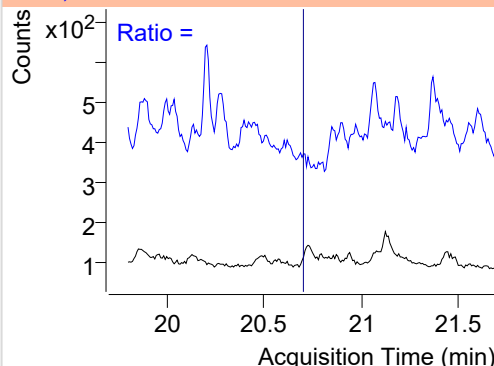
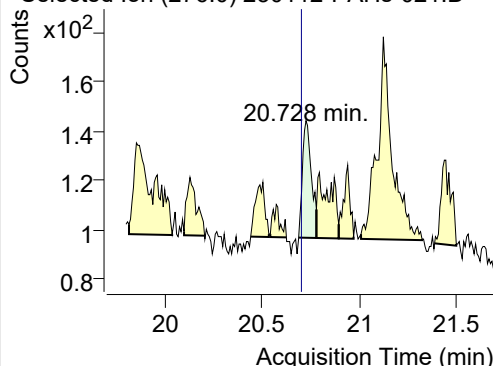


+ SIM (18.780-18.882 min, 14 scans) (**) 23011

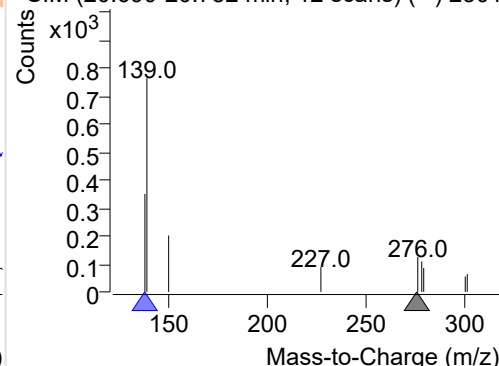
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 230112-PAHs-021.D

276.0, 138.0



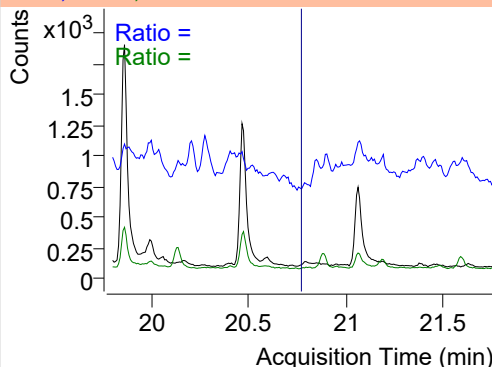
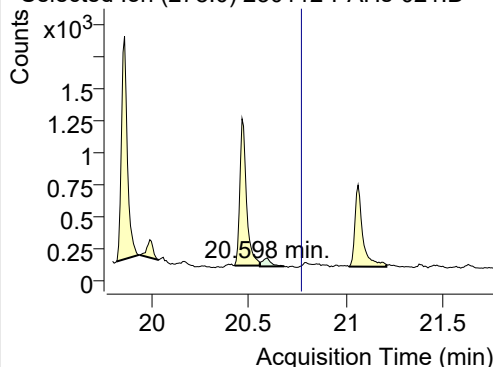
+ SIM (20.690-20.782 min, 12 scans) (**) 23011



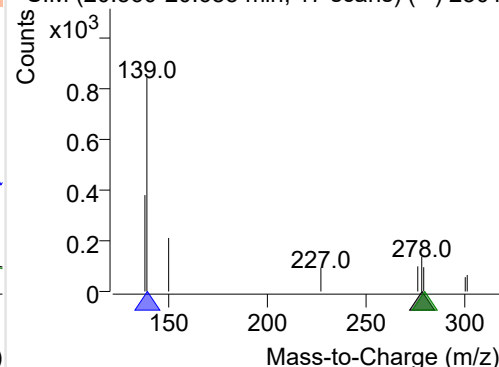
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-021.D

278.0, 139.0, 279.0

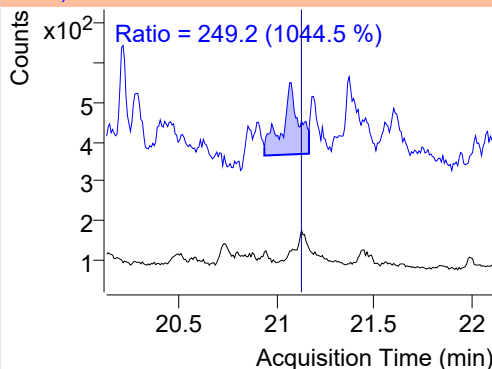
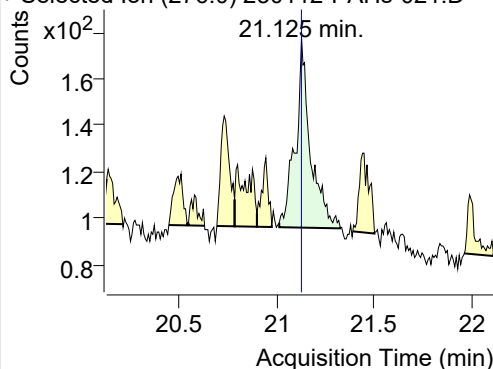


+ SIM (20.560-20.685 min, 17 scans) (**) 2301

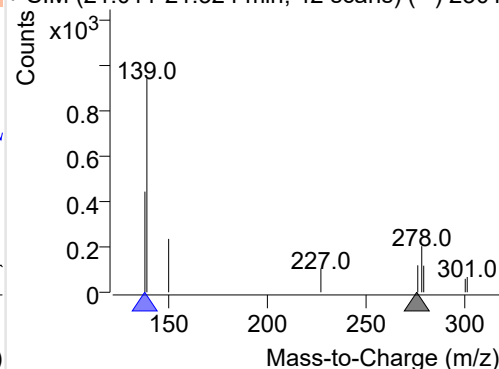
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 230112-PAHs-021.D

276.0, 138.0

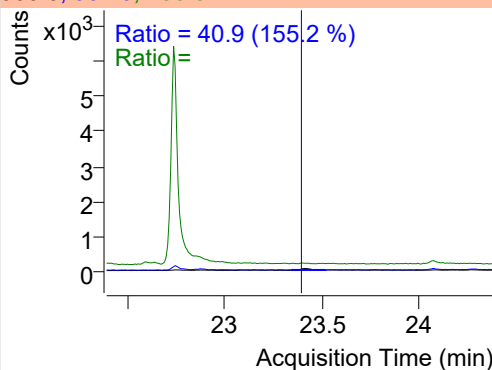
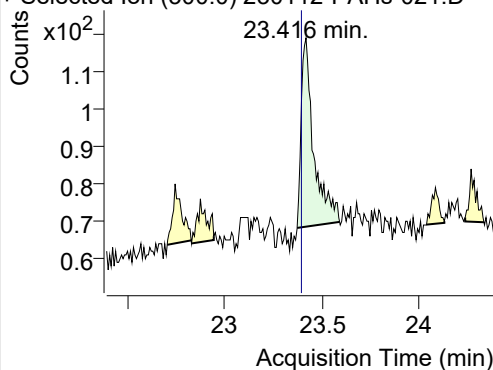


+ SIM (21.011-21.324 min, 42 scans) (**) 2301

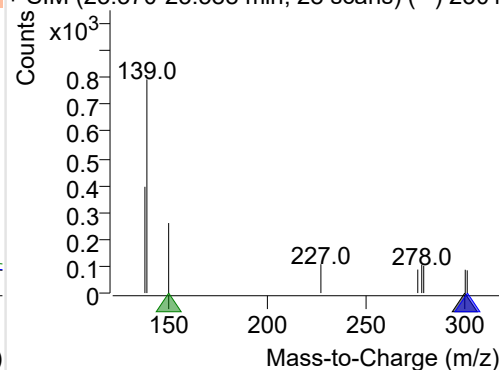
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-021.D

300.0, 301.0, 150.0



+ SIM (23.370-23.588 min, 28 scans) (**) 2301



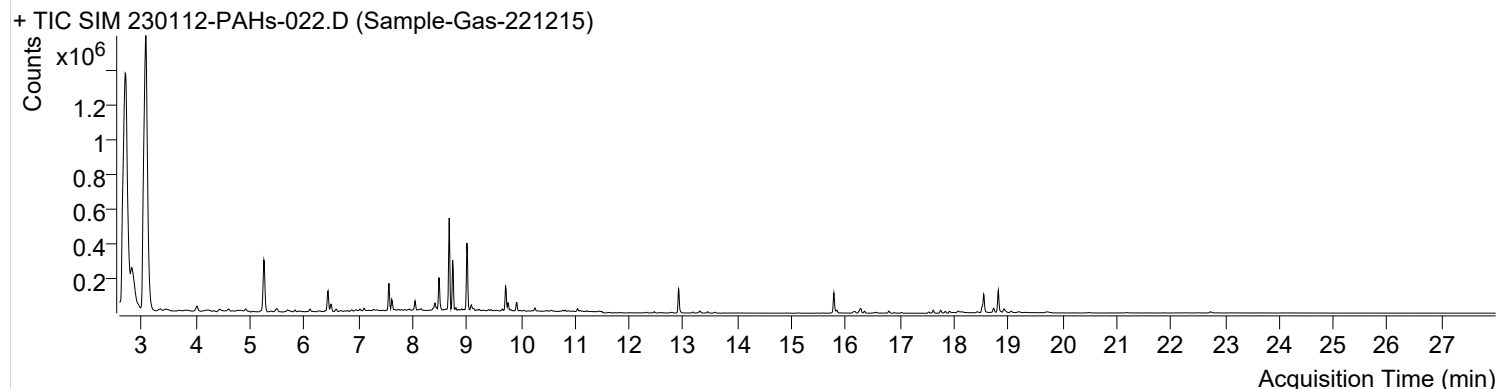
Quantitative Analysis Sample Based Report



Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 10:38:42	Data File	230112-PAHs-022.D
Type	Sample	Name	Sample-Gas-221215
Dil.	1	Acq. Method File	PAHs 19mix-Method

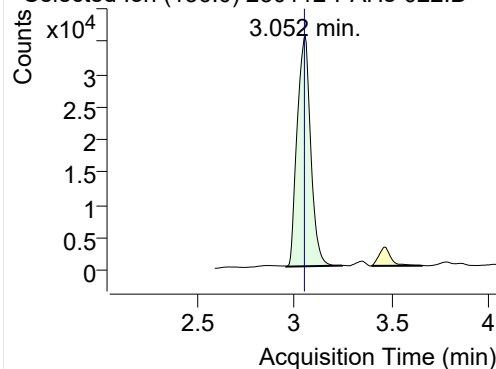
Sample Chromatogram



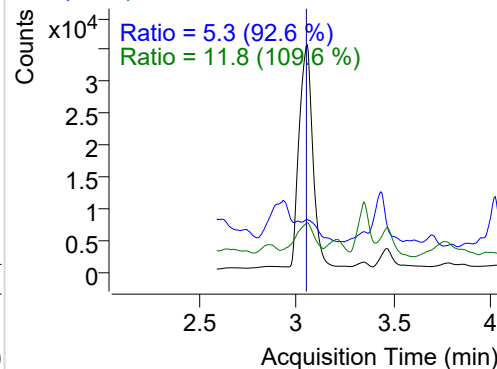
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.052	136.0	170603	35120.88	ND ng/ml	11.8
Naphthalene	3.074	128.0	6021313	1253938.88	ND ng/ml	12.8
Acenaphthylene	6.108	152.0	22831	10777.71	ND ng/ml	20.8
IS-D10-Acenaphthene	6.439	164.0	113704	57740.79	ND ng/ml	93.8
Acenaphthene	6.498	154.0	21502	11225.93	ND ng/ml	110.5
LSS-D10-Fluorene	7.564	176.0	116751	71061.54	ND ng/ml	90.7
Fluorene	7.617	166.0	52917	29677.38	ND ng/ml	95.0
IS-D10-Phenanthrene	9.717	188.0	195290	114404.22	ND ng/ml	15.6
Phenanthrene	9.769	178.0	54942	30109.45	ND ng/ml	20.9
Anthracene	9.864	178.0	2018	1357.38	ND ng/ml	
Fluoranthene	12.466	202.0	8888	5332.97	ND ng/ml	20.3
LSS-D10-Pyrene	12.911	212.0	170683	103453.23	ND ng/ml	17.7
Pyrene	12.943	202.0	8136	5029.04	ND ng/ml	18.8
Benz(a)anthracene	15.740	228.0	886	478.13	ND ng/ml	71.4
IS-D12-Chrysene	15.778	240.0	149051	86824.04	ND ng/ml	19.3
Chrysene	15.833	228.0	2224	935.94	ND ng/ml	28.4
Benzo(b)fluoranthene	18.067	252.0	2864	781.34	ND ng/ml	68.4
Benzo(k)fluoranthene	18.067	252.0	2864	781.34	ND ng/ml	68.4
SS-D12-Benzo(e)pyrene	18.544	264.0	150189	71298.02	ND ng/ml	21.2
Benzo(e)pyrene	18.594	252.0	851	410.50	ND ng/ml	77.2
Benzo(a)pyrene	18.729	252.0	2712	945.59	ND ng/ml	11.1
IS-D12-Perylene	18.815	264.0	162563	86420.87	ND ng/ml	23.4
Perylene	18.801	252.0	2312	966.84	ND ng/ml	12.0
Indeno(1,2,3-c,d)pytene	20.721	276.0	418	90.75	ND ng/ml	
Dibenz(a,h)anthracene	20.797	278.0	284	47.50	ND ng/ml	
Benzo(g,h,i)perylene	21.133	276.0	689	180.72	ND ng/ml	131.6
Coronene	23.408	300.0	304	60.60	ND ng/ml	

IS-D8-Naphthalene

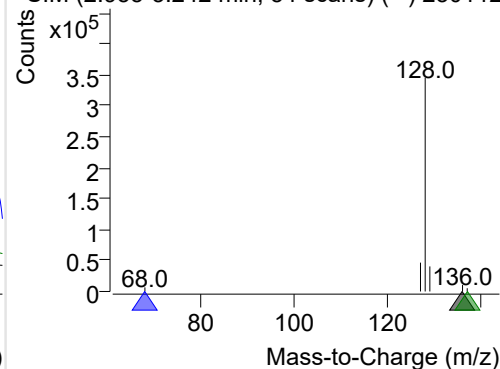
+ Selected Ion (136.0) 230112-PAHs-022.D



136.0, 68.0, 137.0

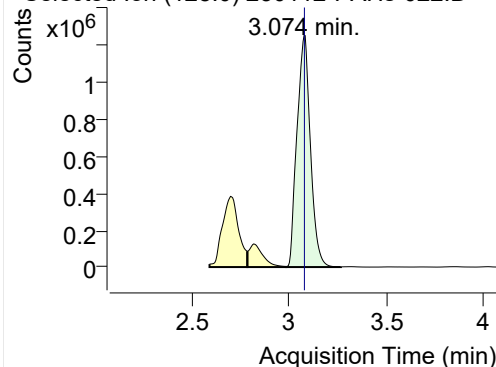


+ SIM (2.955-3.242 min, 54 scans) (**) 230112

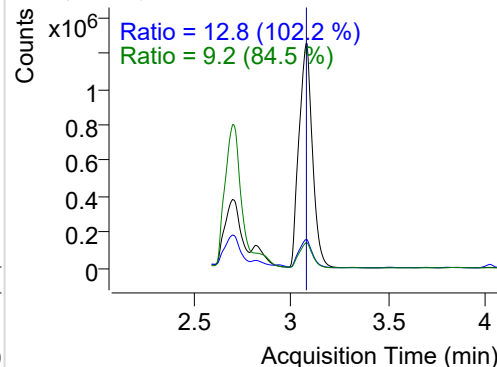


Naphthalene

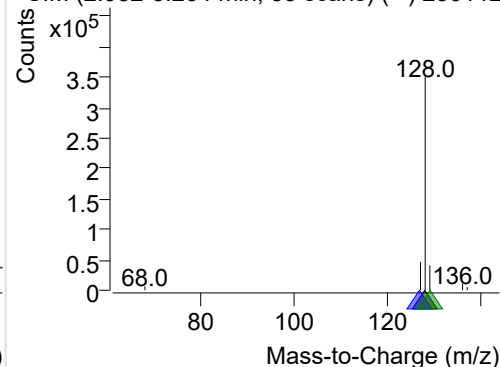
+ Selected Ion (128.0) 230112-PAHs-022.D



128.0, 127.0, 129.0

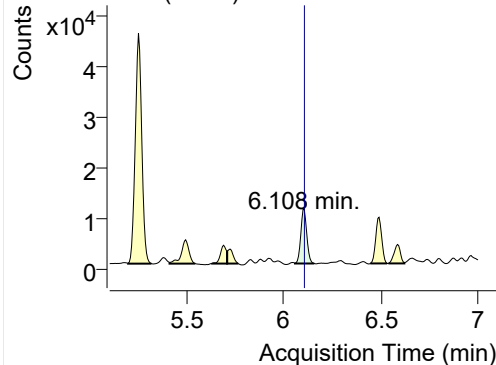


+ SIM (2.982-3.264 min, 53 scans) (**) 230112

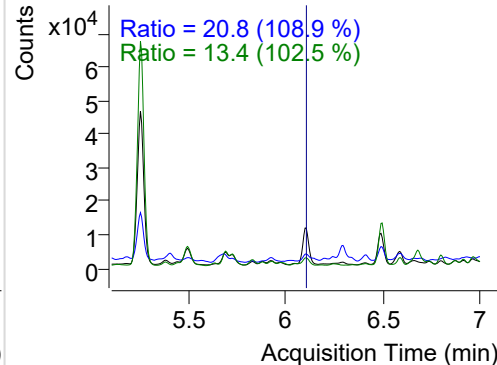


Acenaphthylene

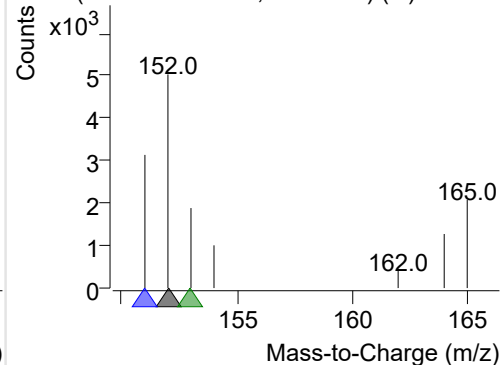
+ Selected Ion (152.0) 230112-PAHs-022.D



152.0, 151.0, 153.0

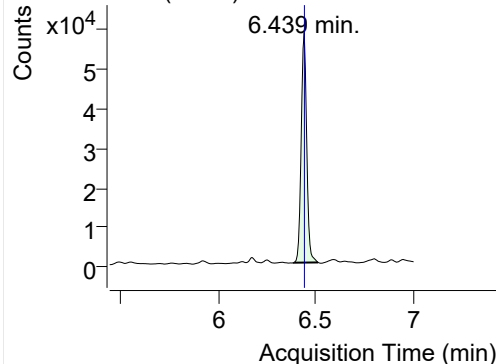


+ SIM (6.060-6.160 min, 17 scans) (**) 230112

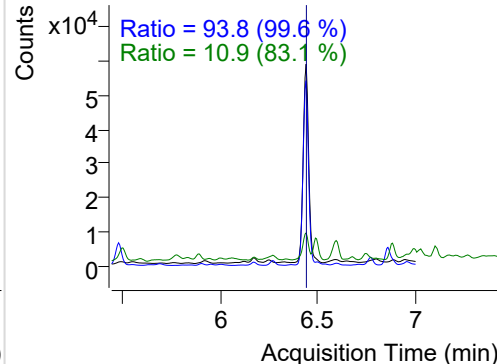


IS-D10-Acenaphthene

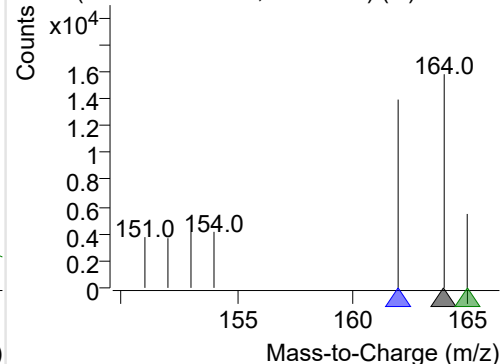
+ Selected Ion (164.0) 230112-PAHs-022.D



164.0, 162.0, 165.0

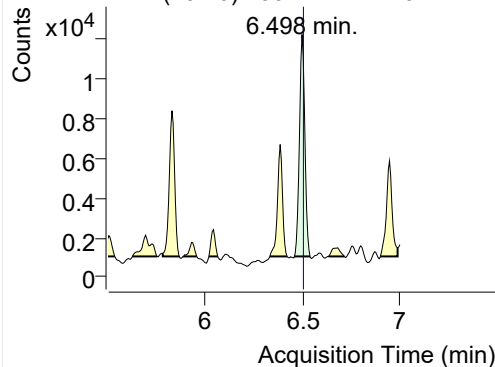


+ SIM (6.386-6.511 min, 22 scans) (**) 230112

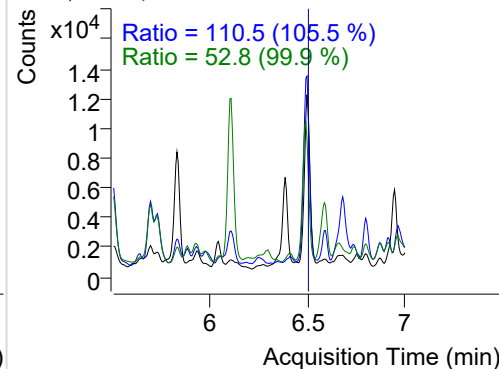


Acenaphthene

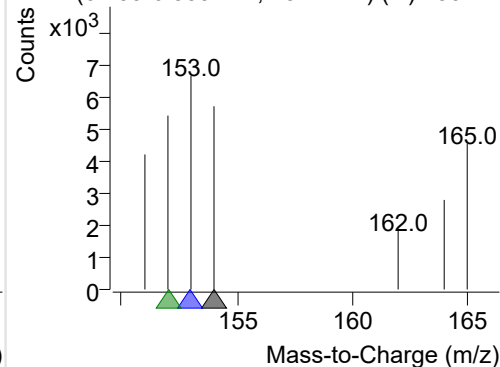
+ Selected Ion (154.0) 230112-PAHs-022.D



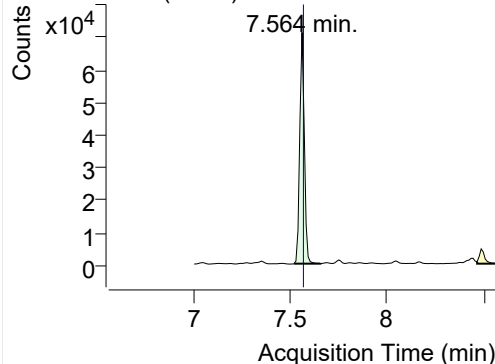
154.0, 153.0, 152.0



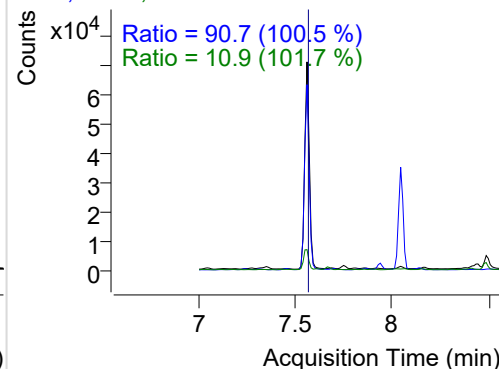
+ SIM (6.459-6.539 min, 13 scans) (**) 230112

**LSS-D10-Fluorene**

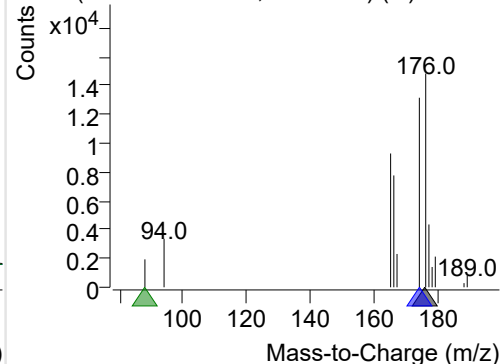
+ Selected Ion (176.0) 230112-PAHs-022.D



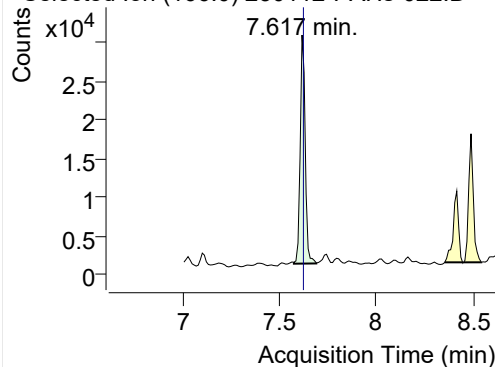
176.0, 174.0, 88.0



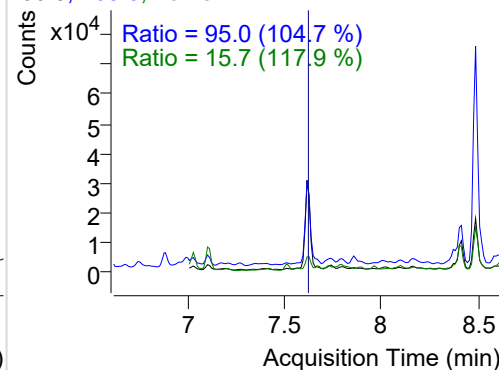
+ SIM (7.523-7.659 min, 13 scans) (**) 230112

**Fluorene**

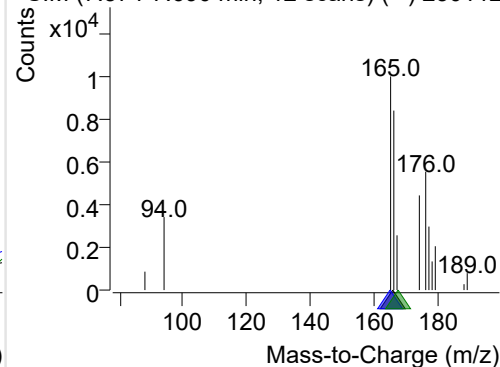
+ Selected Ion (166.0) 230112-PAHs-022.D



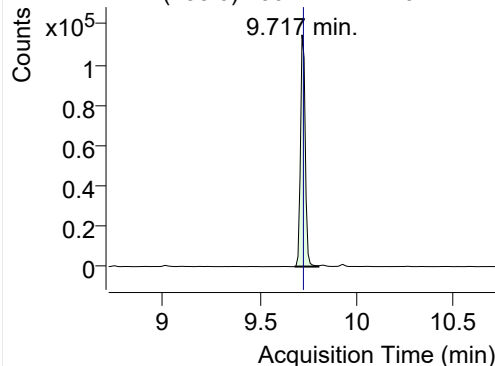
166.0, 165.0, 167.0



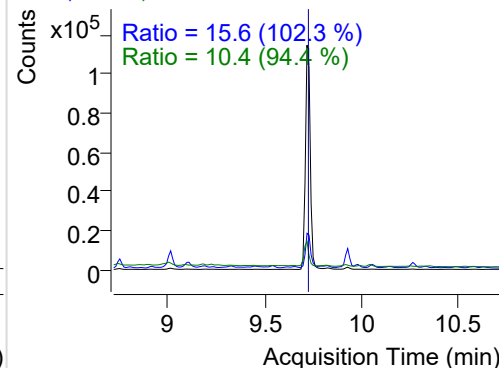
+ SIM (7.574-7.690 min, 12 scans) (**) 230112

**IS-D10-Phenanthrene**

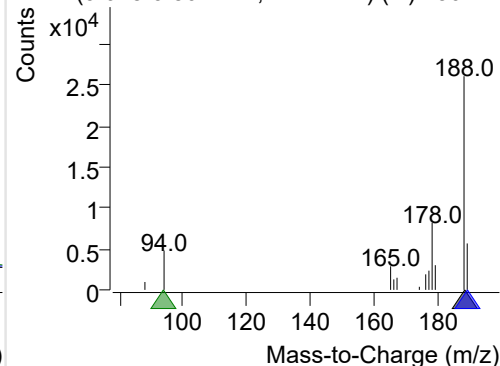
+ Selected Ion (188.0) 230112-PAHs-022.D



188.0, 189.0, 94.0

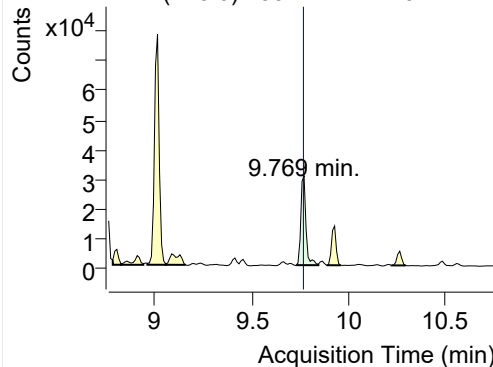


+ SIM (9.678-9.801 min, 12 scans) (**) 230112

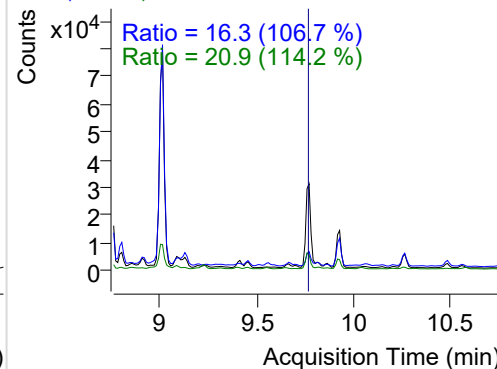


Phenanthrene

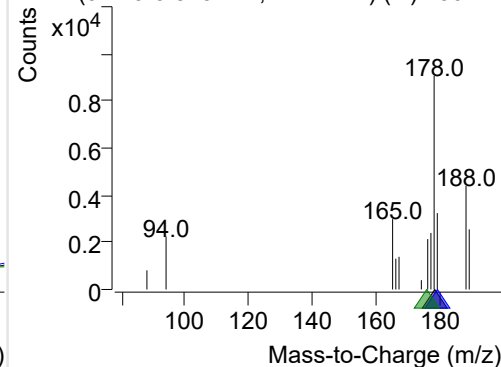
+ Selected Ion (178.0) 230112-PAHs-022.D



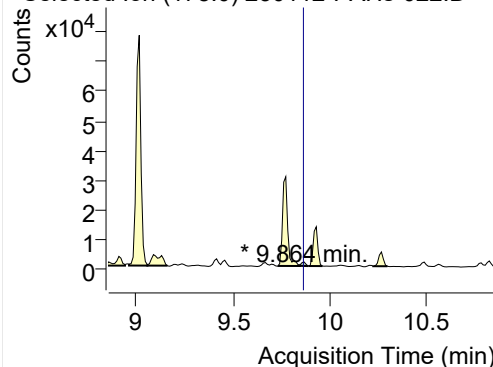
178.0, 179.0, 176.0



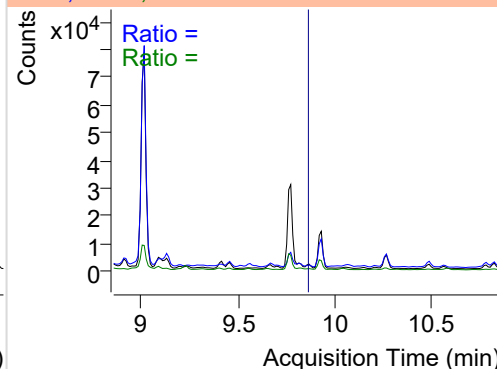
+ SIM (9.729-9.843 min, 11 scans) (**) 230112

**Anthracene**

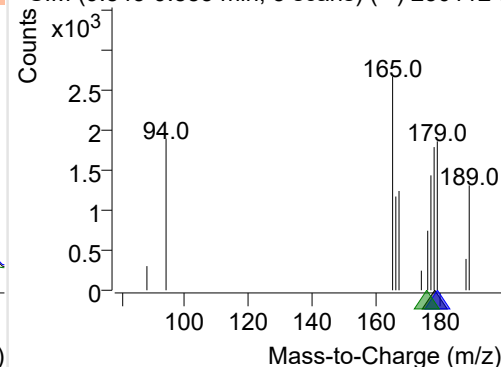
+ Selected Ion (178.0) 230112-PAHs-022.D



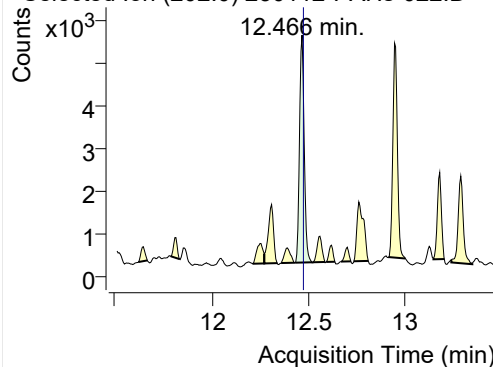
178.0, 179.0, 176.0



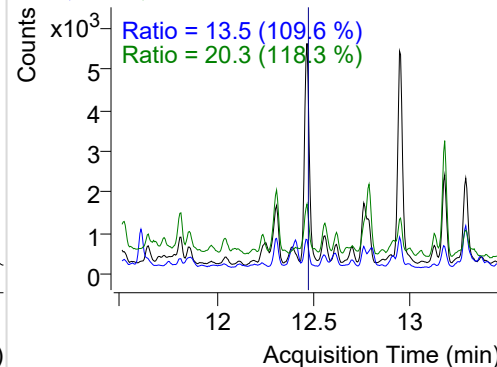
+ SIM (9.843-9.885 min, 5 scans) (**) 230112-I

**Fluoranthene**

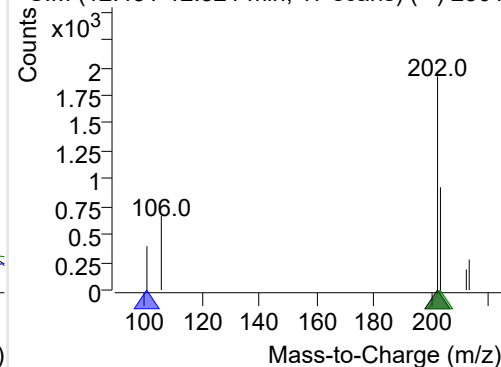
+ Selected Ion (202.0) 230112-PAHs-022.D



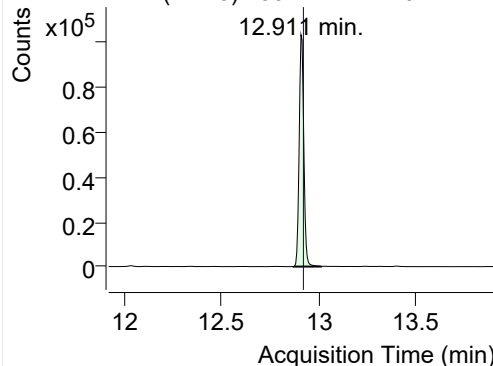
202.0, 101.0, 203.0



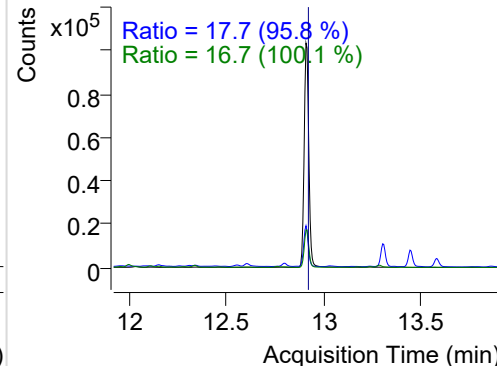
+ SIM (12.431-12.521 min, 17 scans) (**) 2301

**LSS-D10-Pyrene**

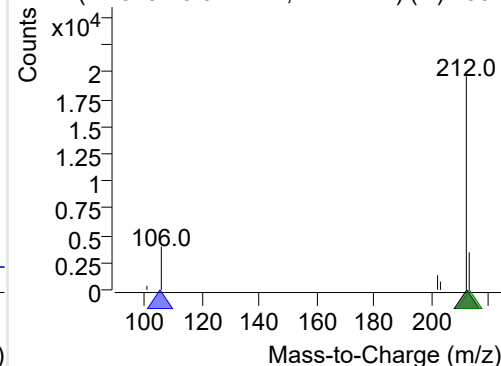
+ Selected Ion (212.0) 230112-PAHs-022.D



212.0, 106.0, 213.0

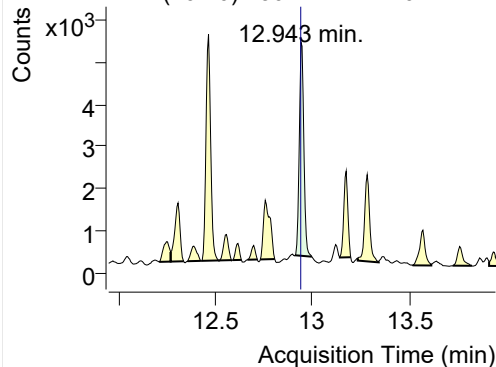


+ SIM (12.873-13.014 min, 27 scans) (**) 2301

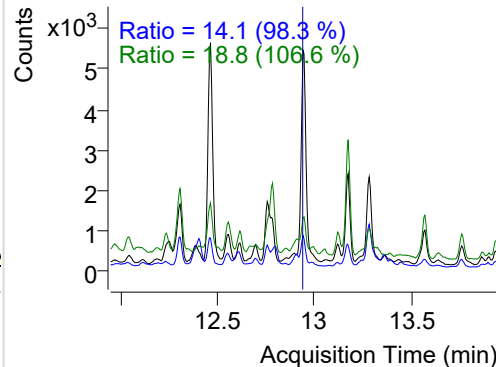


Pyrene

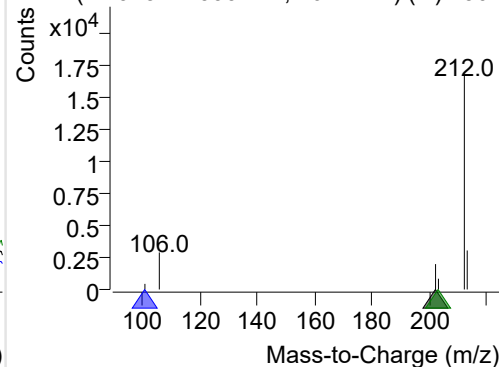
+ Selected Ion (202.0) 230112-PAHs-022.D



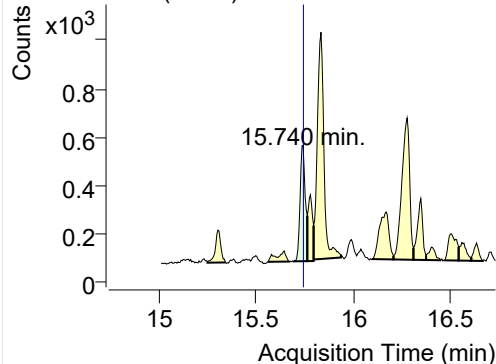
202.0, 101.0, 203.0



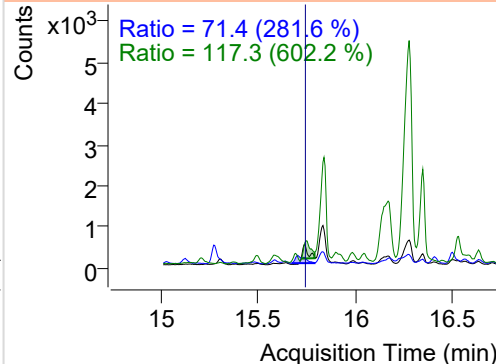
+ SIM (12.913-12.999 min, 16 scans) (**) 2301

**Benz(a)anthracene**

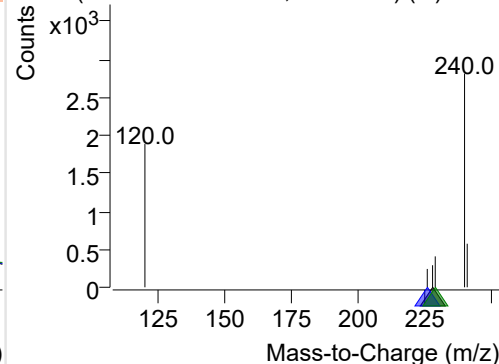
+ Selected Ion (228.0) 230112-PAHs-022.D



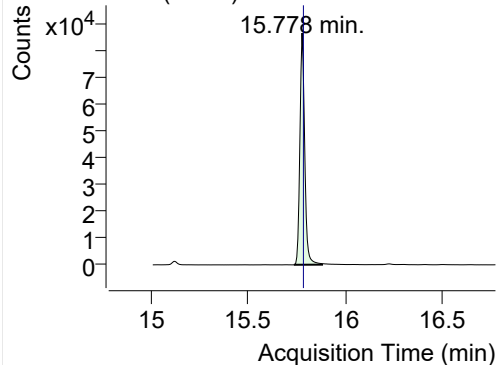
228.0, 226.0, 229.0



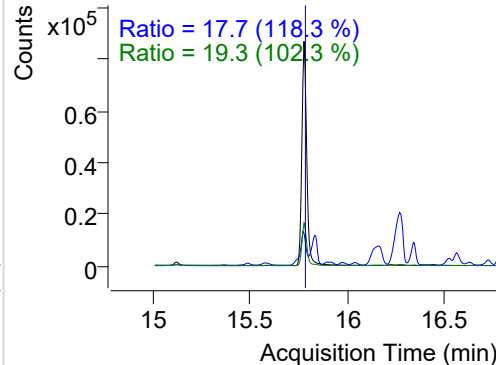
+ SIM (15.692-15.762 min, 14 scans) (**) 2301

**IS-D12-Chrysene**

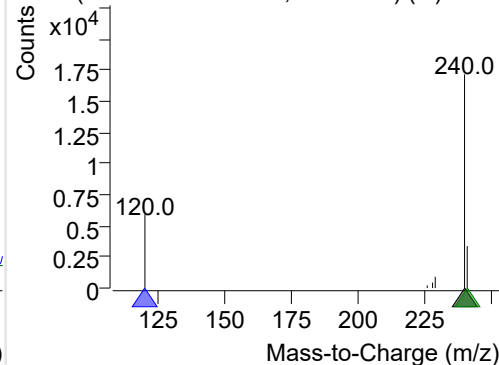
+ Selected Ion (240.0) 230112-PAHs-022.D



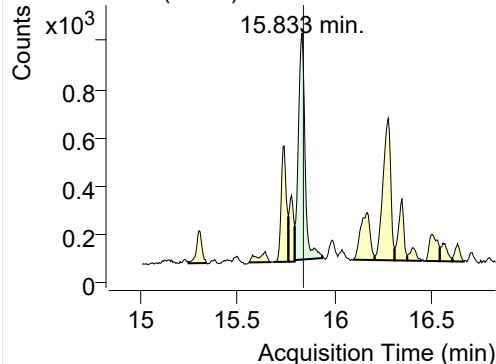
240.0, 120.0, 241.0



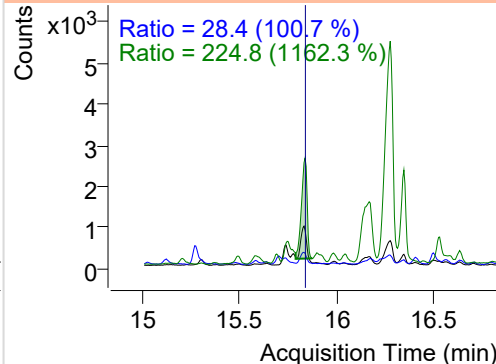
+ SIM (15.736-15.881 min, 27 scans) (**) 2301

**Chrysene**

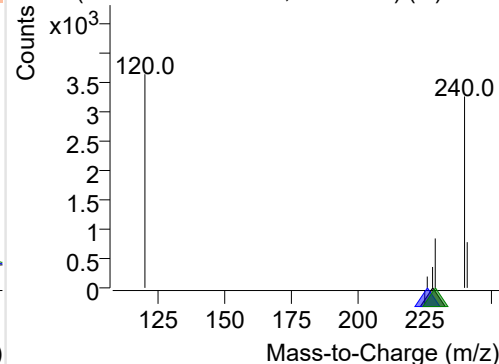
+ Selected Ion (228.0) 230112-PAHs-022.D



228.0, 226.0, 229.0



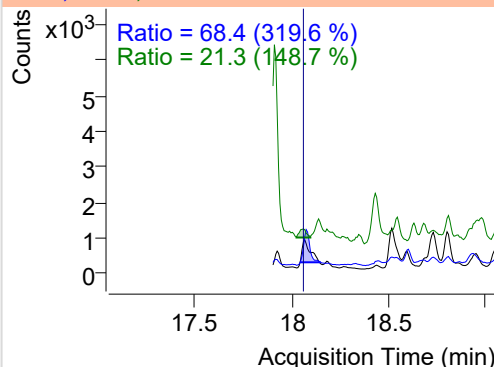
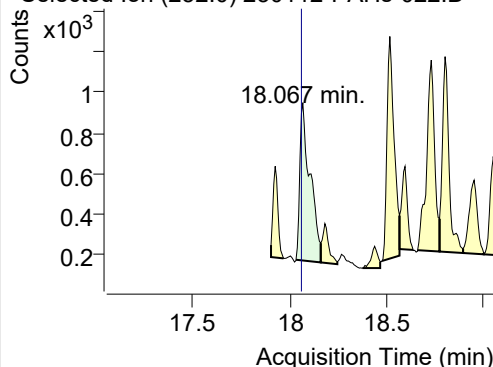
+ SIM (15.795-15.936 min, 27 scans) (**) 2301



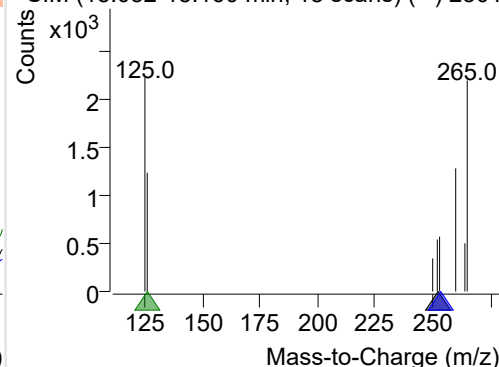
Benzo(b)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-022.D

252.0, 253.0, 126.0

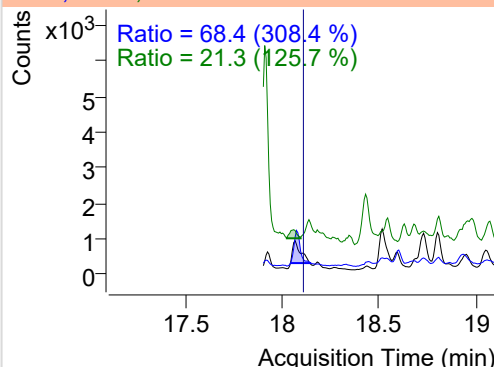
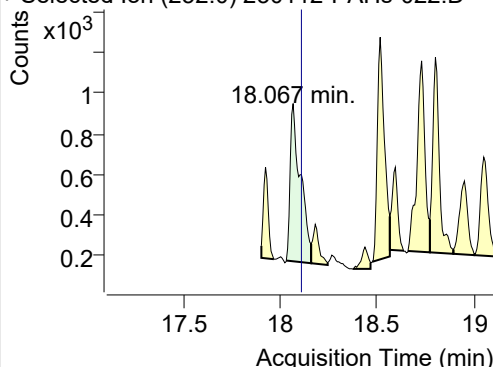


+ SIM (18.032-18.160 min, 18 scans) (**) 2301

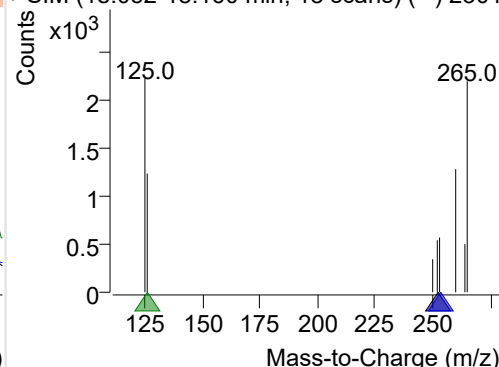
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-022.D

252.0, 253.0, 126.0

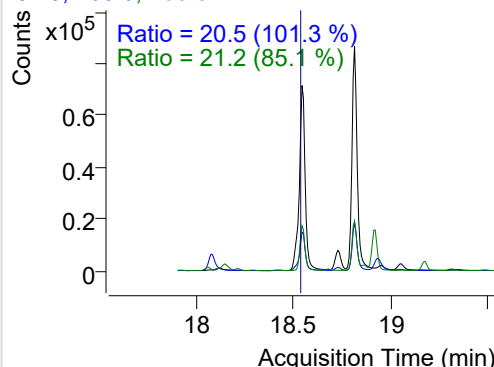
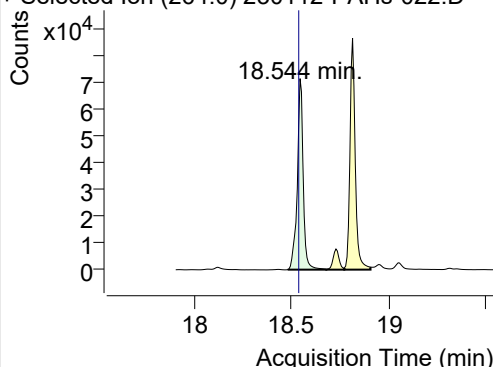


+ SIM (18.032-18.160 min, 18 scans) (**) 2301

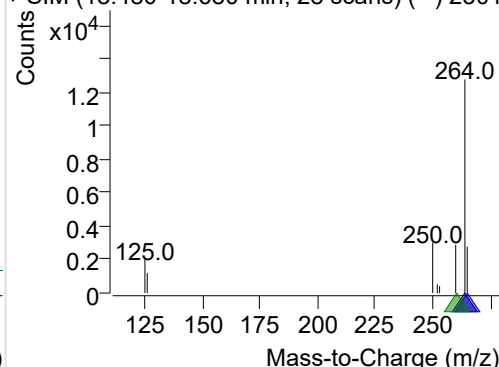
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-022.D

264.0, 265.0, 260.0

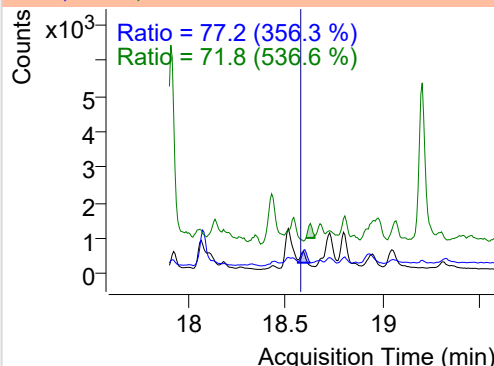
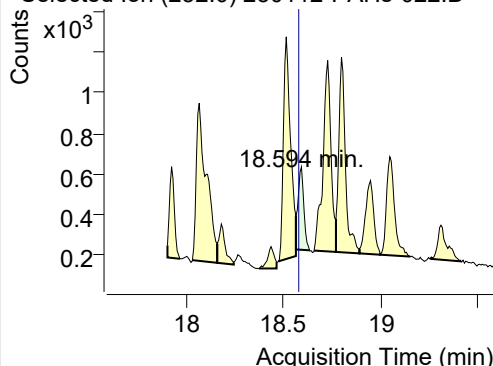


+ SIM (18.480-18.680 min, 28 scans) (**) 2301

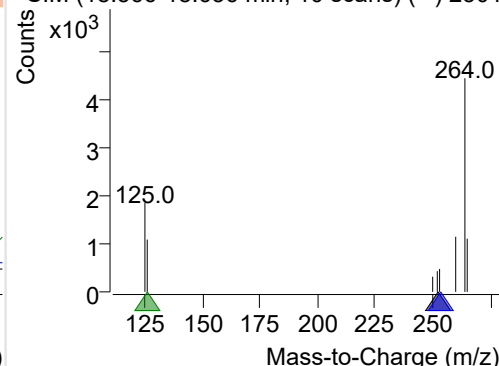
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-022.D

252.0, 253.0, 126.0



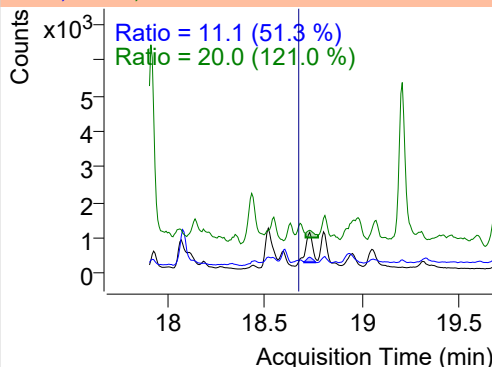
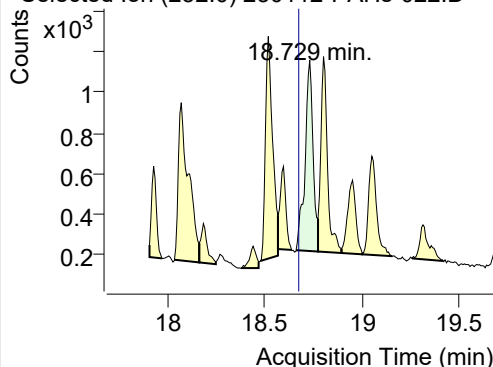
+ SIM (18.566-18.636 min, 10 scans) (**) 2301



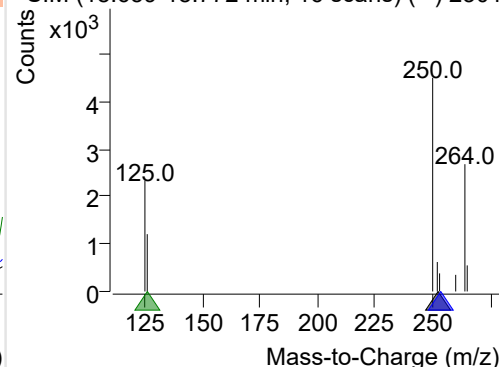
Benzo(a)pyrene

+ Selected Ion (252.0) 230112-PAHs-022.D

252.0, 253.0, 126.0

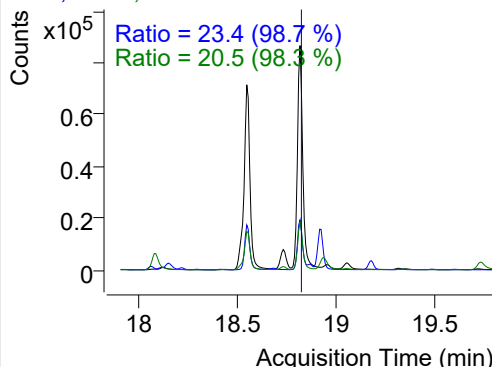
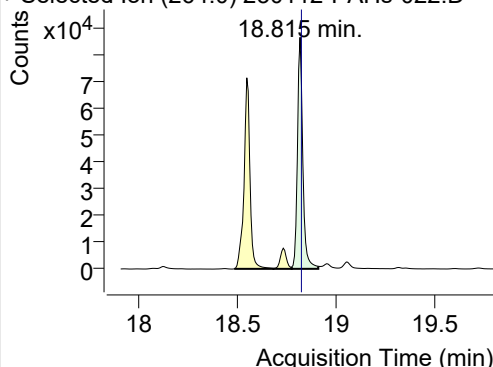


+ SIM (18.659-18.772 min, 16 scans) (**) 2301

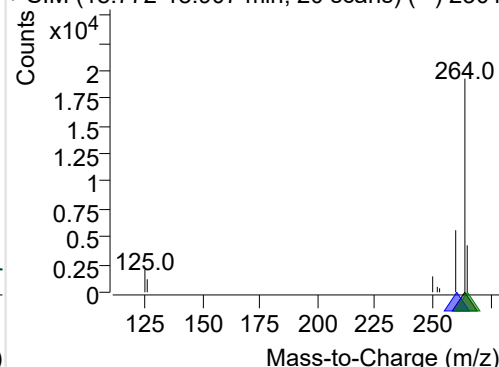
**IS-D12-Perylene**

+ Selected Ion (264.0) 230112-PAHs-022.D

264.0, 260.0, 265.0

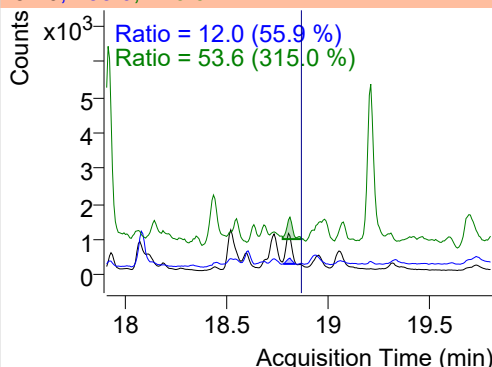
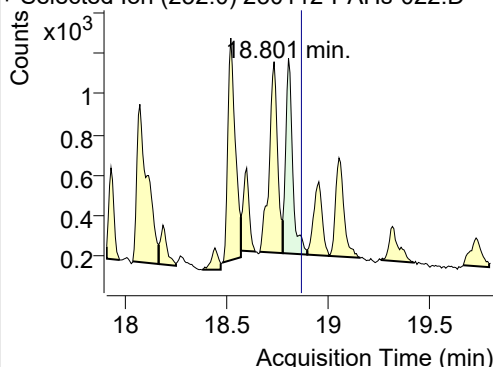


+ SIM (18.772-18.907 min, 20 scans) (**) 2301

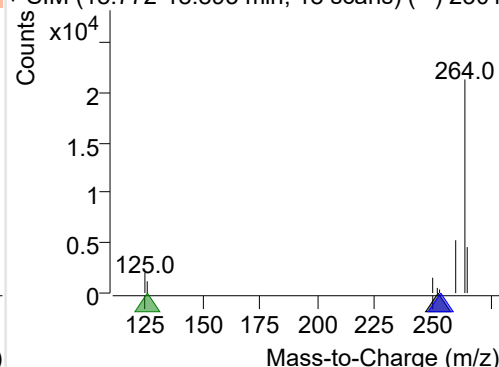
**Perylene**

+ Selected Ion (252.0) 230112-PAHs-022.D

252.0, 253.0, 126.0

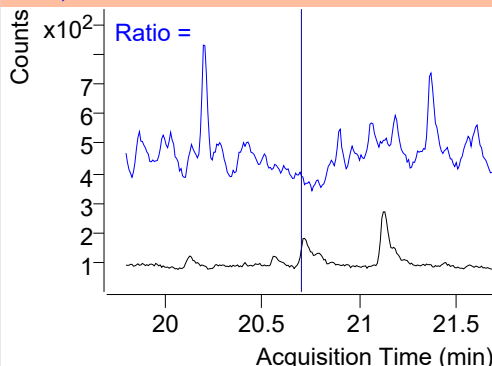
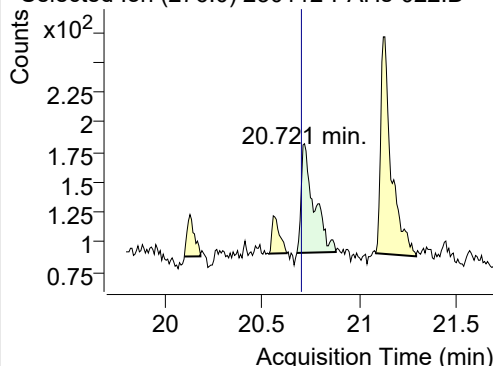


+ SIM (18.772-18.893 min, 18 scans) (**) 2301

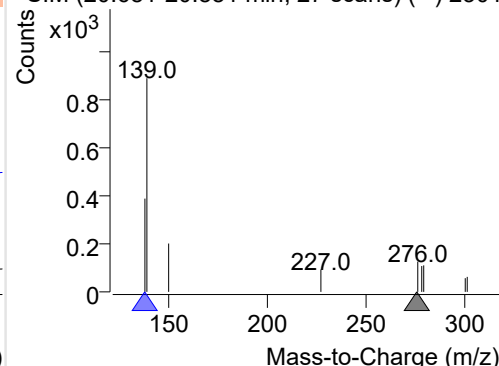
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 230112-PAHs-022.D

276.0, 138.0



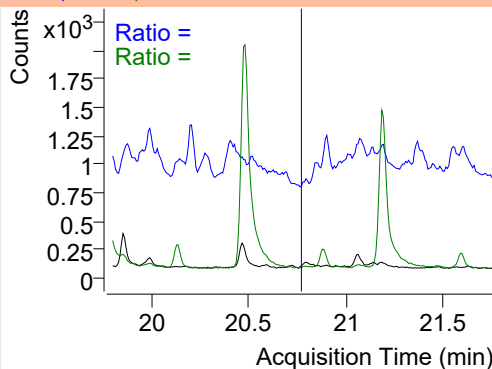
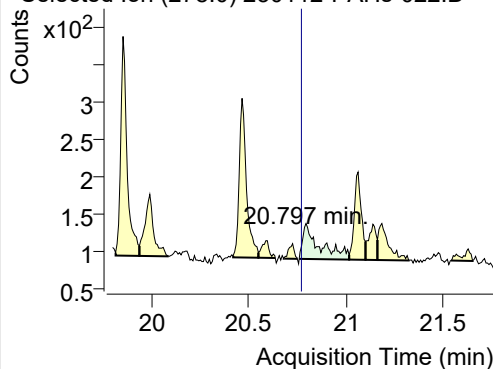
+ SIM (20.681-20.881 min, 27 scans) (**) 2301



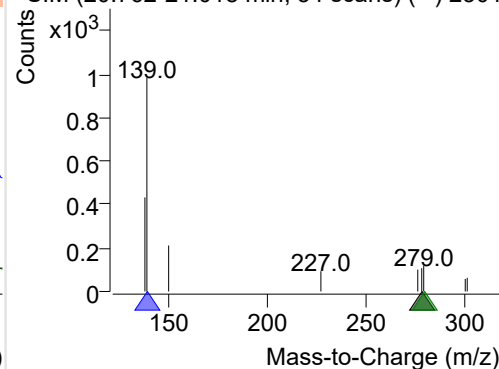
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-022.D

278.0, 139.0, 279.0

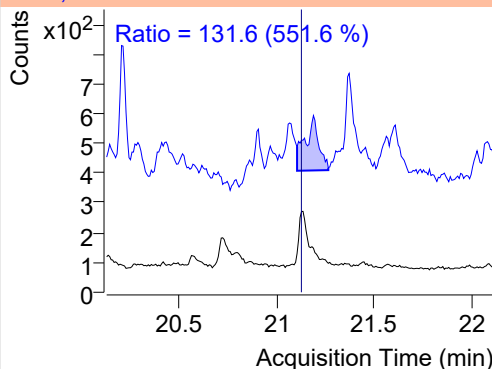
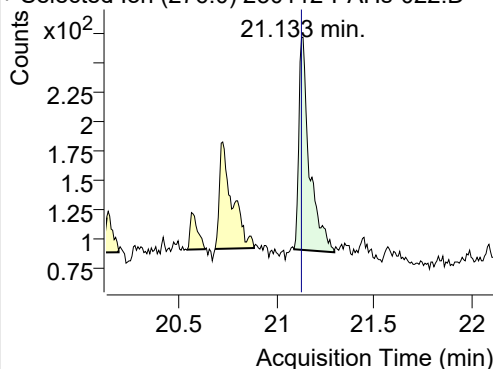


+ SIM (20.762-21.018 min, 34 scans) (**) 2301

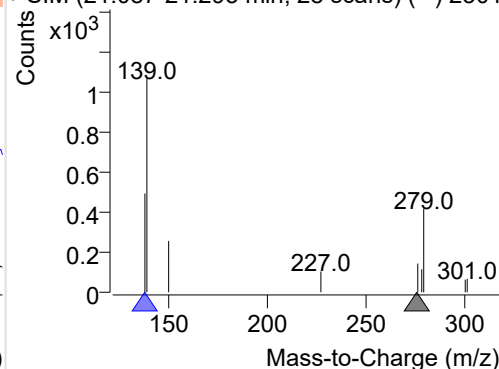
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 230112-PAHs-022.D

276.0, 138.0

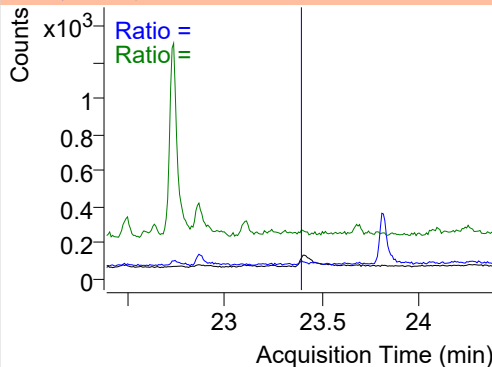
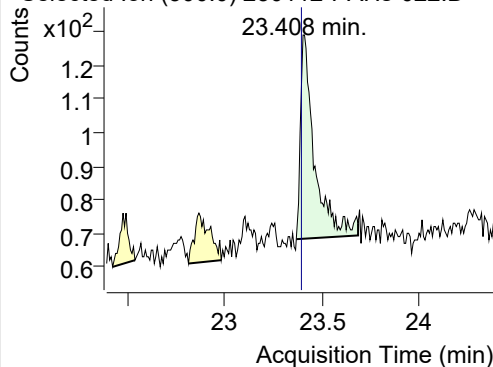


+ SIM (21.087-21.293 min, 28 scans) (**) 2301

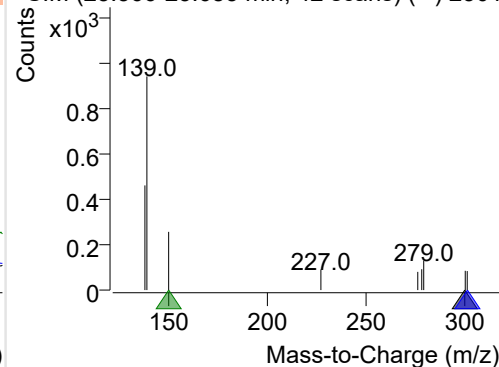
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-022.D

300.0, 301.0, 150.0



+ SIM (23.366-23.683 min, 42 scans) (**) 2301



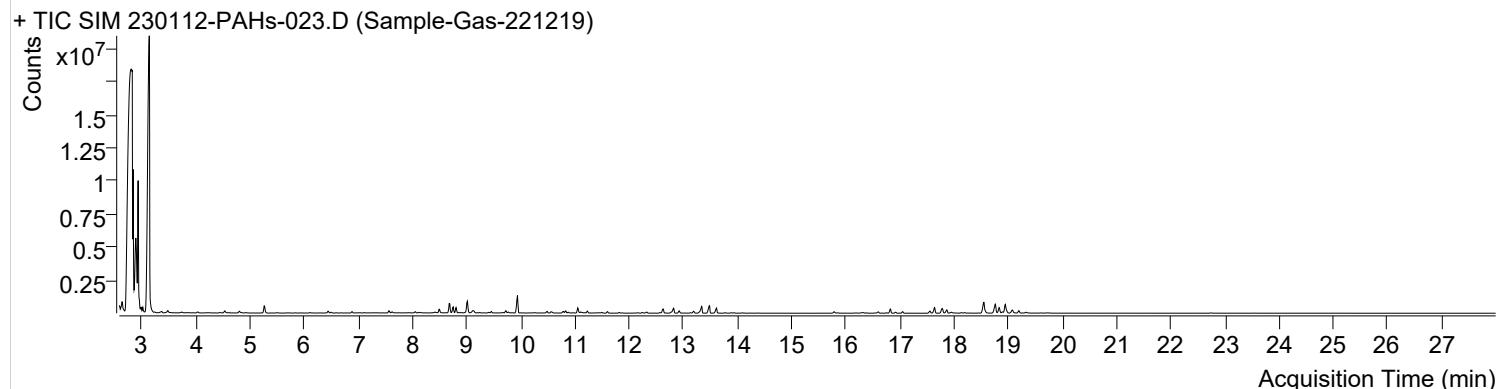
Quantitative Analysis Sample Based Report



Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 11:09:52	Data File	230112-PAHs-023.D
Type	Sample	Name	Sample-Gas-221219
Dil.	1	Acq. Method File	PAHs 19mix-Method

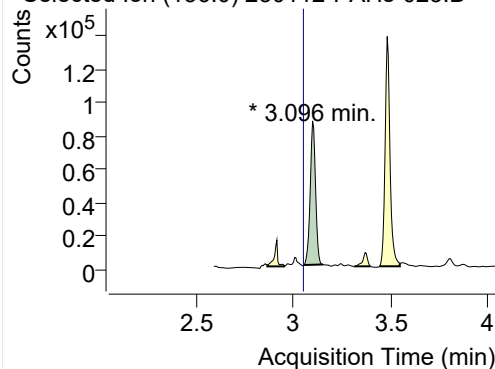
Sample Chromatogram



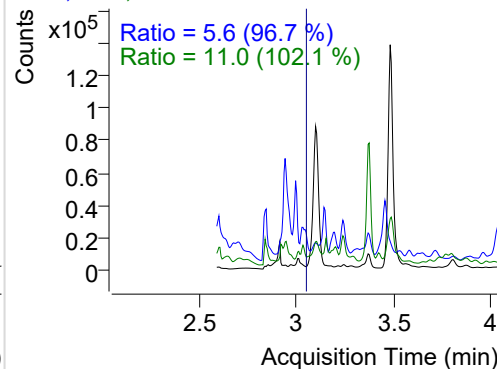
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.096	136.0	163977	86203.54	ND ng/ml	11.0
Naphthalene	3.122	128.0	29118191	8378602.33	ND ng/ml	23.7
Acenaphthylene	6.108	152.0	45036	25023.41	ND ng/ml	18.5
IS-D10-Acenaphthene	6.439	164.0	116253	66880.01	ND ng/ml	91.4
Acenaphthene	6.504	154.0	28279	16056.79	ND ng/ml	114.9
LSS-D10-Fluorene	7.564	176.0	120736	74911.82	ND ng/ml	91.1
Fluorene	7.627	166.0	67807	36980.35	ND ng/ml	93.5
IS-D10-Phenanthrene	9.727	188.0	197089	118211.39	ND ng/ml	16.5
Phenanthrene	9.769	178.0	72238	42419.86	ND ng/ml	19.4
Anthracene	9.853	178.0	7239	4267.17	ND ng/ml	
Fluoranthene	12.472	202.0	10959	5616.88	ND ng/ml	16.8
LSS-D10-Pyrene	12.922	212.0	173755	105319.80	ND ng/ml	18.8
Pyrene	12.954	202.0	10975	6576.69	ND ng/ml	
Benz(a)anthracene	15.757	228.0	1832	653.25	ND ng/ml	40.0
IS-D12-Chrysene	15.784	240.0	141849	81132.16	ND ng/ml	21.0
Chrysene	15.860	228.0	2334	679.14	ND ng/ml	21.8
Benzo(b)fluoranthene	17.954	252.0	18032	8698.69	ND ng/ml	11.5
Benzo(k)fluoranthene	18.196	252.0	4378	2429.90	ND ng/ml	12.4
SS-D12-Benzo(e)pyrene	18.559	264.0	197254	235767.89	ND ng/ml	28.5
Benzo(e)pyrene	18.587	252.0	3522	1683.36	ND ng/ml	38.0
Benzo(a)pyrene	18.758	252.0	27571	11186.34	ND ng/ml	13.2
IS-D12-Perylene	18.829	264.0	144192	188132.06	ND ng/ml	26.0
Perylene	18.829	252.0	30827	14437.09	ND ng/ml	12.3
Indeno(1,2,3-c,d)pyrene	20.713	276.0	369	118.22	ND ng/ml	66.7
Dibenz(a,h)anthracene	20.782	278.0	400	124.52	ND ng/ml	36.7
Benzo(g,h,i)perylene	21.125	276.0	1528	619.74	ND ng/ml	25.2
Coronene	23.393	300.0	438	136.34	ND ng/ml	

IS-D8-Naphthalene

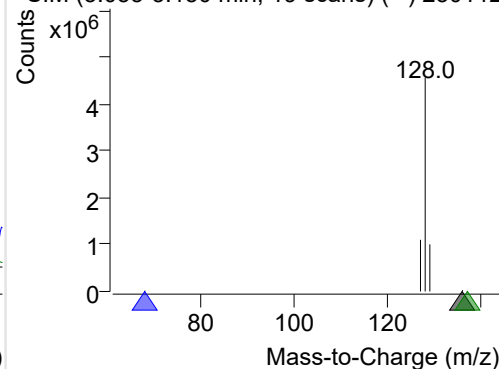
+ Selected Ion (136.0) 230112-PAHs-023.D



136.0, 68.0, 137.0

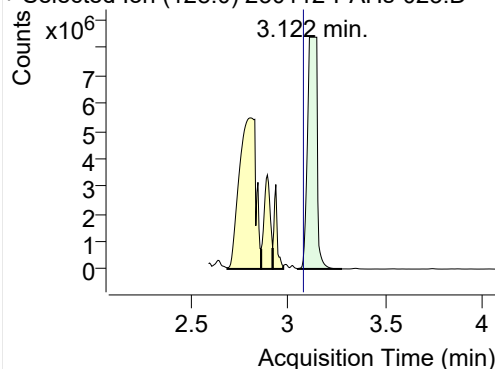


+ SIM (3.053-3.150 min, 19 scans) (**) 230112

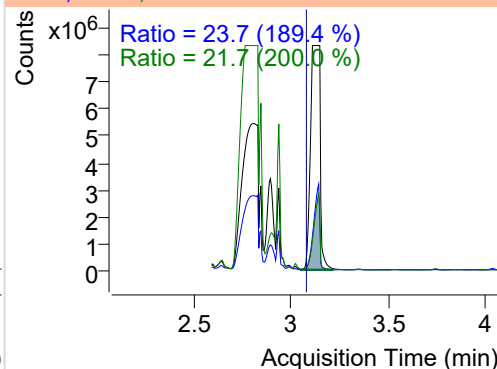


Naphthalene

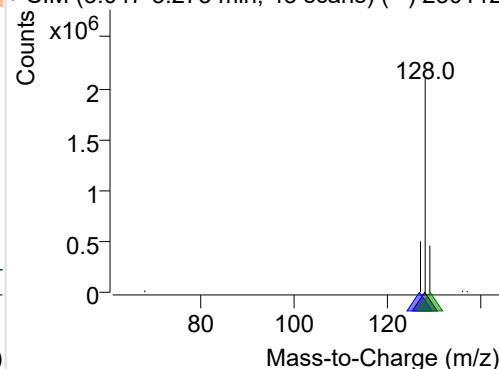
+ Selected Ion (128.0) 230112-PAHs-023.D



128.0, 127.0, 129.0

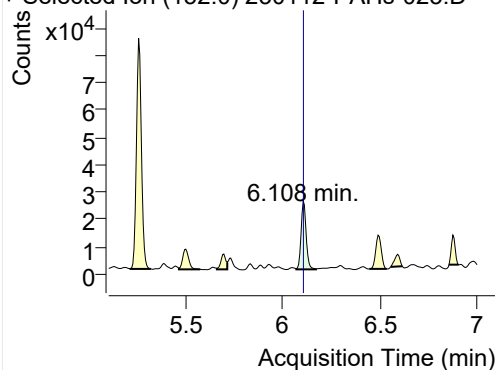


+ SIM (3.047-3.275 min, 43 scans) (**) 230112

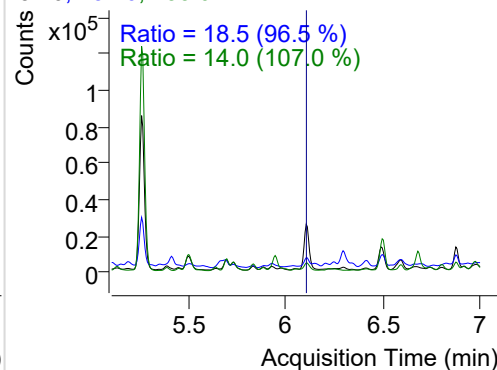


Acenaphthylene

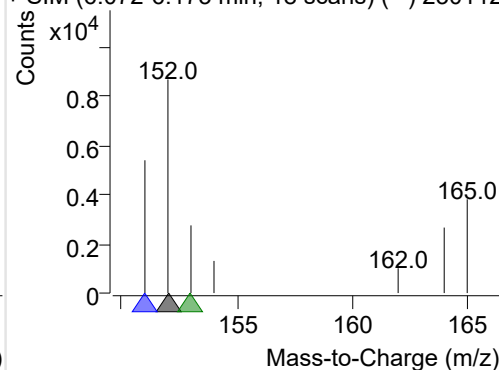
+ Selected Ion (152.0) 230112-PAHs-023.D



152.0, 151.0, 153.0

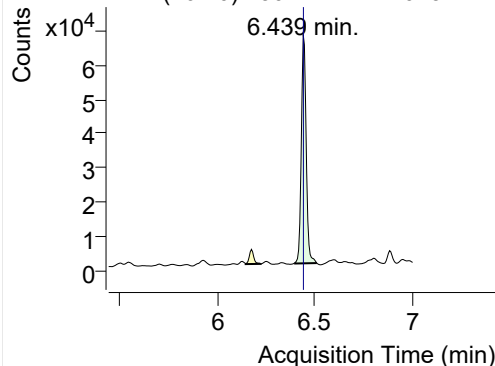


+ SIM (6.072-6.173 min, 18 scans) (**) 230112

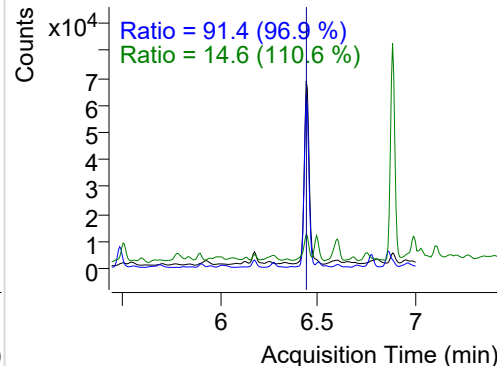


IS-D10-Acenaphthene

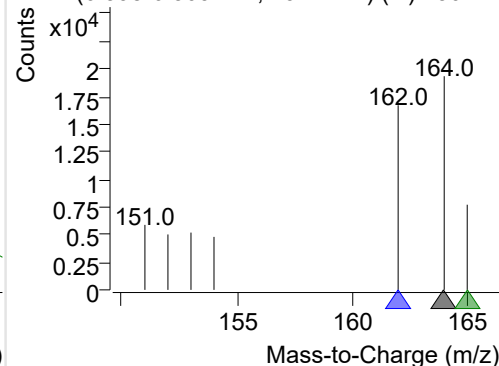
+ Selected Ion (164.0) 230112-PAHs-023.D



164.0, 162.0, 165.0

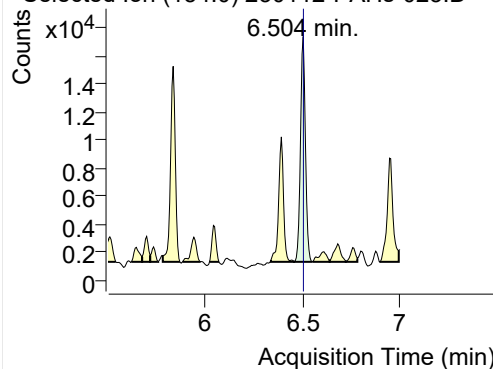


+ SIM (6.398-6.509 min, 19 scans) (**) 230112

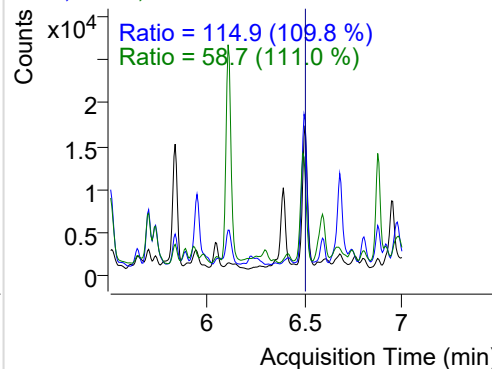


Acenaphthene

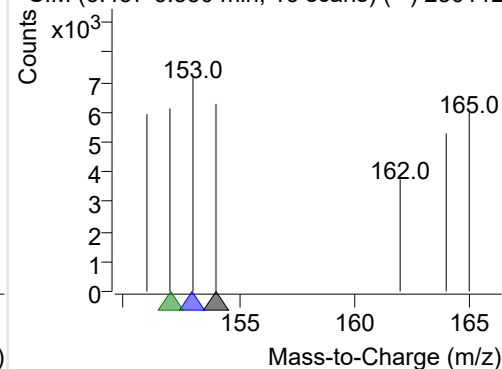
+ Selected Ion (154.0) 230112-PAHs-023.D



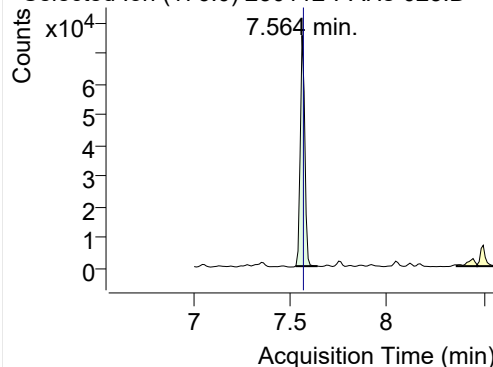
154.0, 153.0, 152.0



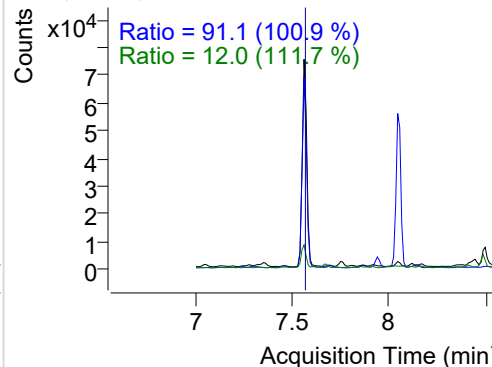
+ SIM (6.457-6.550 min, 16 scans) (**) 230112

**LSS-D10-Fluorene**

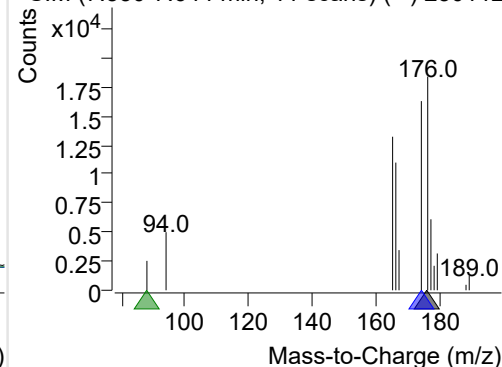
+ Selected Ion (176.0) 230112-PAHs-023.D



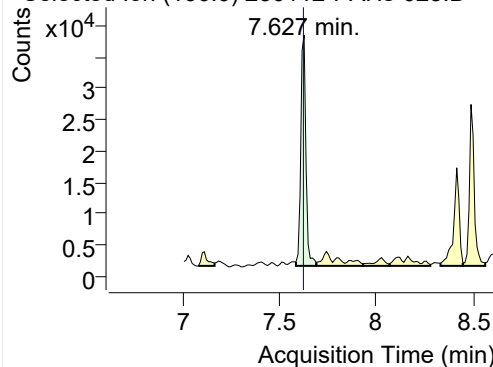
176.0, 174.0, 88.0



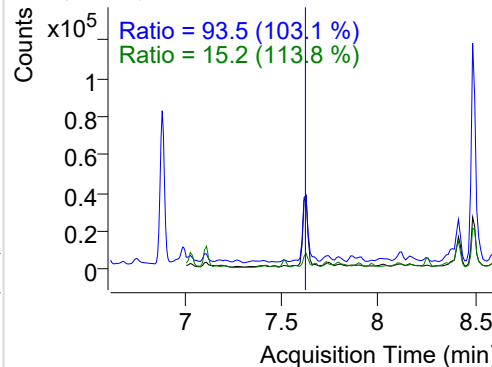
+ SIM (7.530-7.644 min, 11 scans) (**) 230112

**Fluorene**

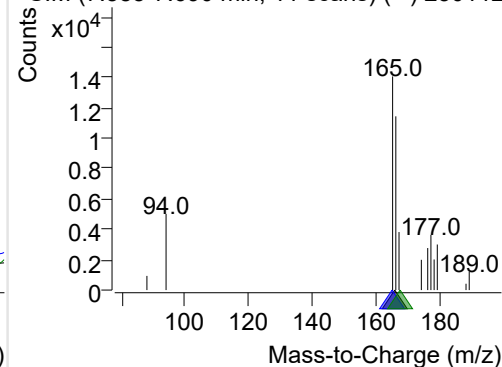
+ Selected Ion (166.0) 230112-PAHs-023.D



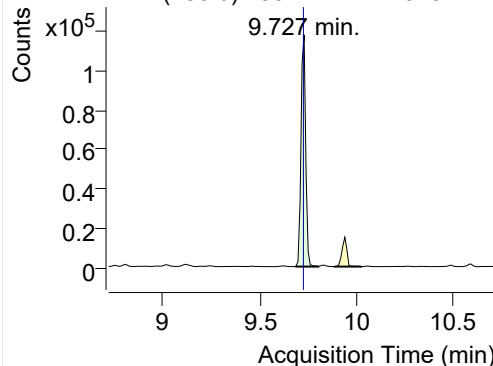
166.0, 165.0, 167.0



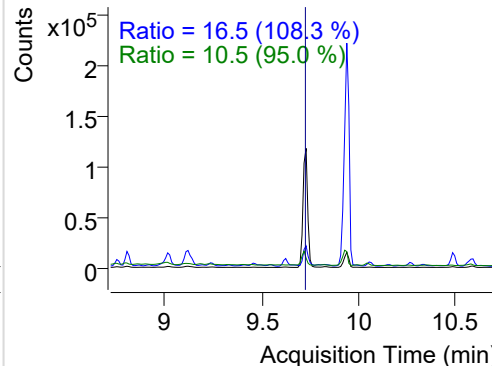
+ SIM (7.585-7.690 min, 11 scans) (**) 230112

**IS-D10-Phenanthrene**

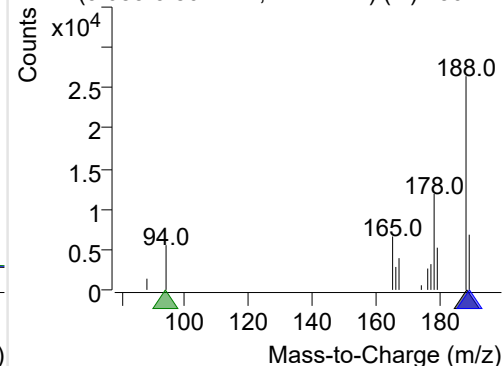
+ Selected Ion (188.0) 230112-PAHs-023.D



188.0, 189.0, 94.0

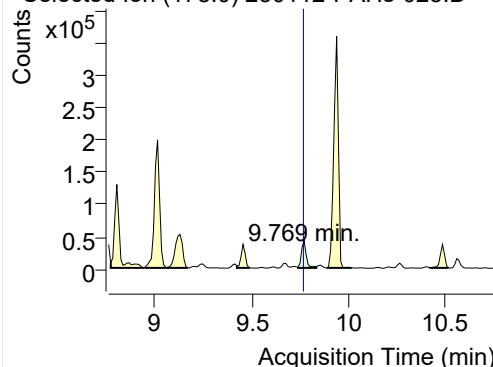


+ SIM (9.683-9.801 min, 12 scans) (**) 230112

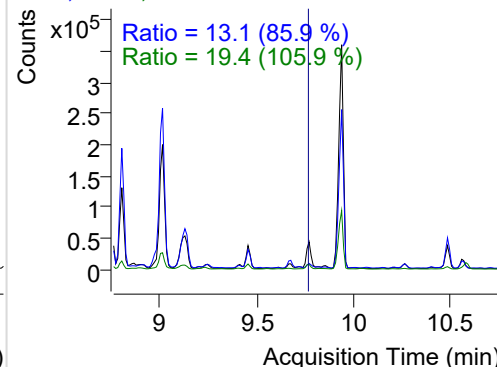


Phenanthrene

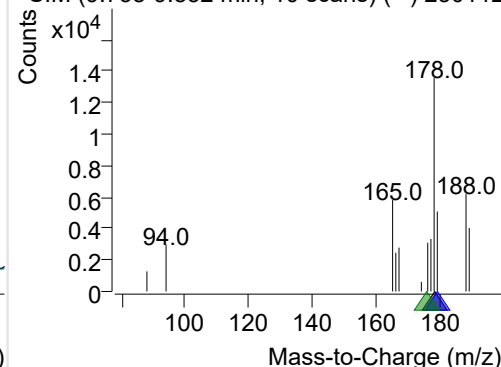
+ Selected Ion (178.0) 230112-PAHs-023.D



178.0, 179.0, 176.0

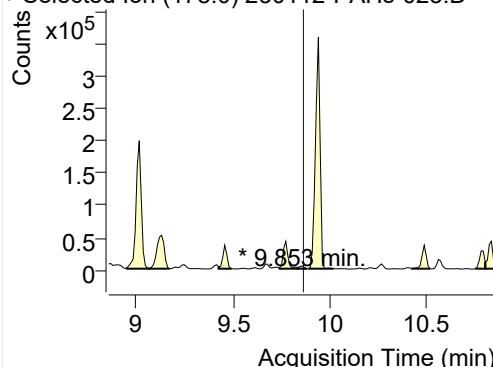


+ SIM (9.738-9.832 min, 10 scans) (**) 230112

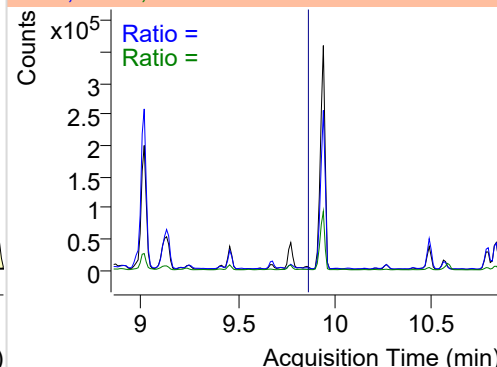


Anthracene

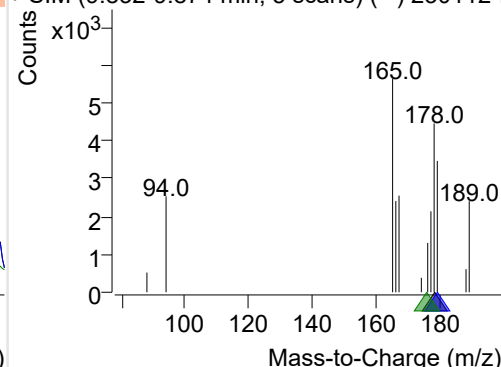
+ Selected Ion (178.0) 230112-PAHs-023.D



178.0, 179.0, 176.0

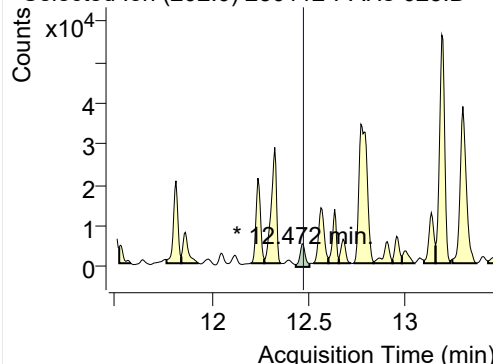


+ SIM (9.832-9.874 min, 5 scans) (**) 230112-I

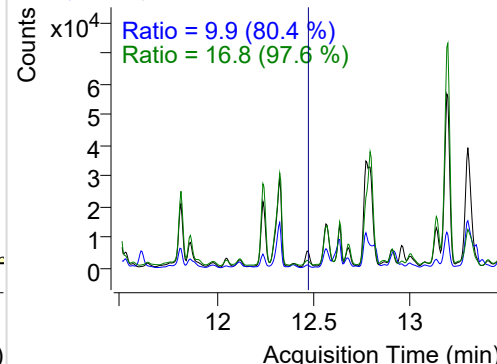


Fluoranthene

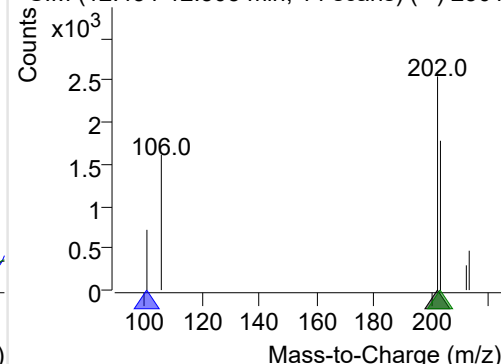
+ Selected Ion (202.0) 230112-PAHs-023.D



202.0, 101.0, 203.0

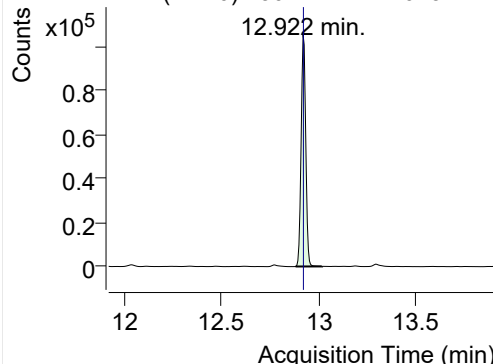


+ SIM (12.434-12.505 min, 14 scans) (**) 2301

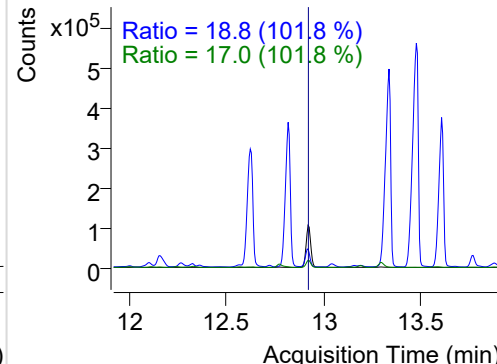


LSS-D10-Pyrene

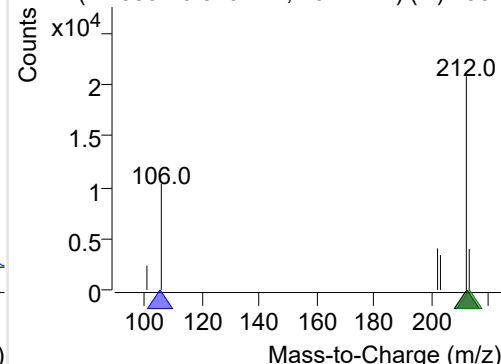
+ Selected Ion (212.0) 230112-PAHs-023.D



212.0, 106.0, 213.0



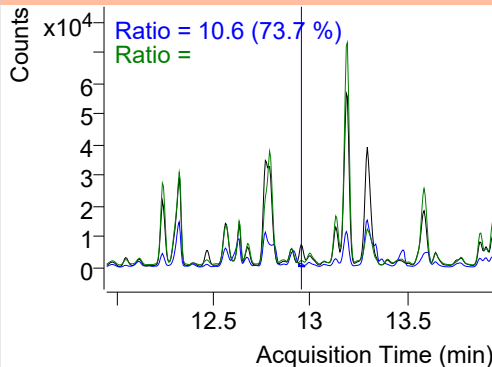
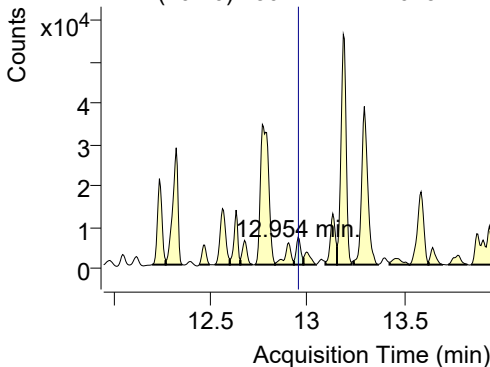
+ SIM (12.883-13.019 min, 26 scans) (**) 2301



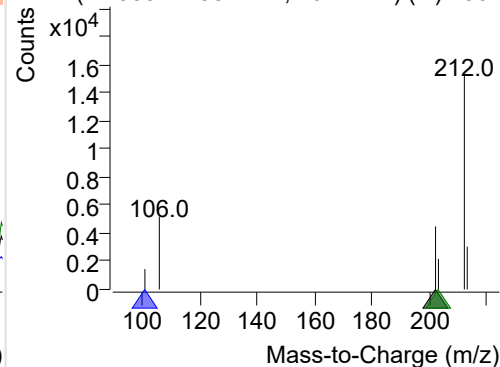
Pyrene

+ Selected Ion (202.0) 230112-PAHs-023.D

202.0, 101.0, 203.0

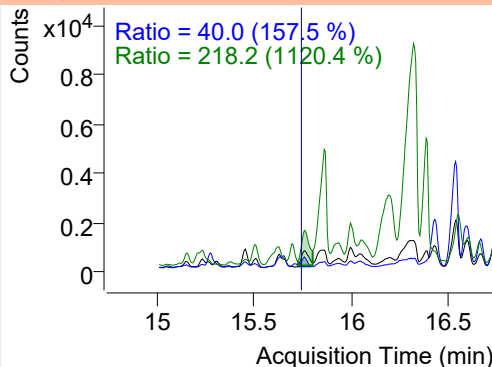
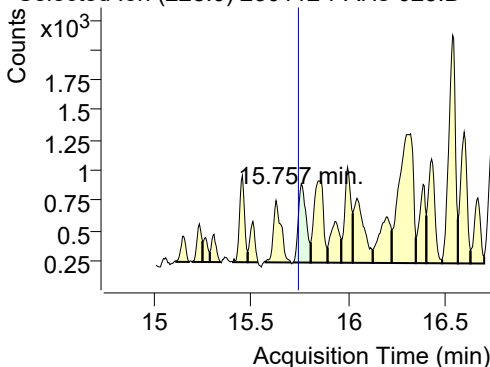


+ SIM (12.933-12.981 min, 10 scans) (**) 2301

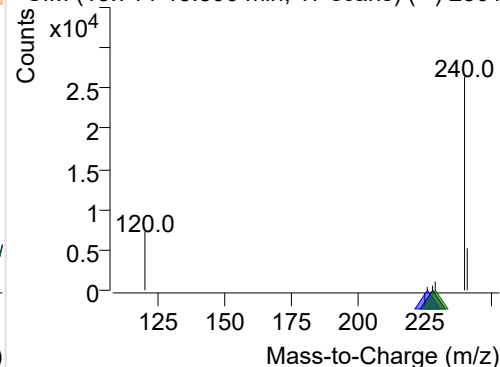
**Benz(a)anthracene**

+ Selected Ion (228.0) 230112-PAHs-023.D

228.0, 226.0, 229.0

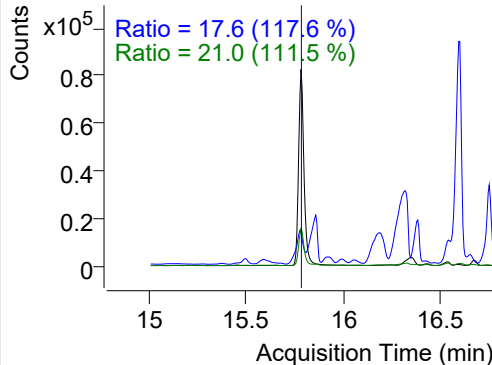
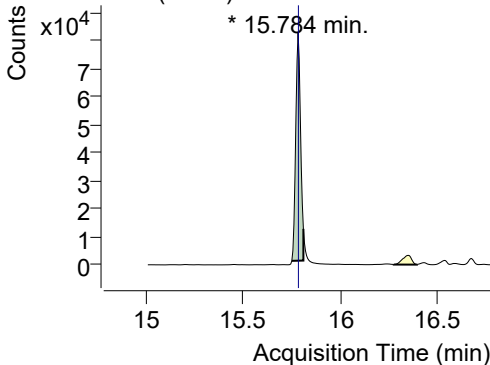


+ SIM (15.714-15.806 min, 17 scans) (**) 2301

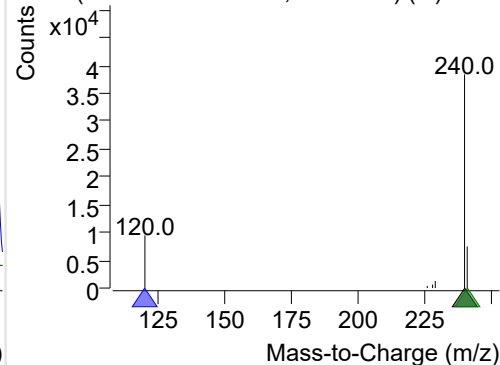
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-023.D

240.0, 120.0, 241.0

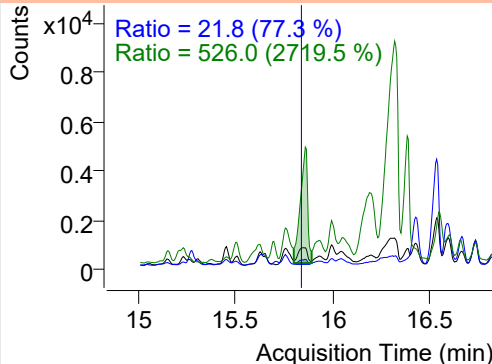
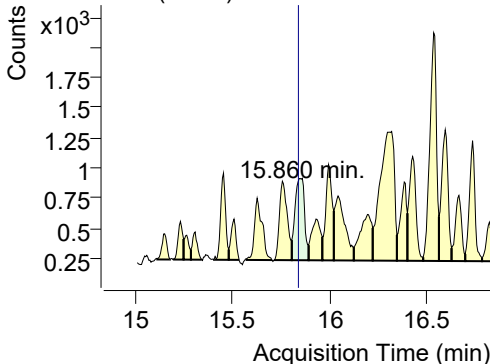


+ SIM (15.751-15.811 min, 12 scans) (**) 2301

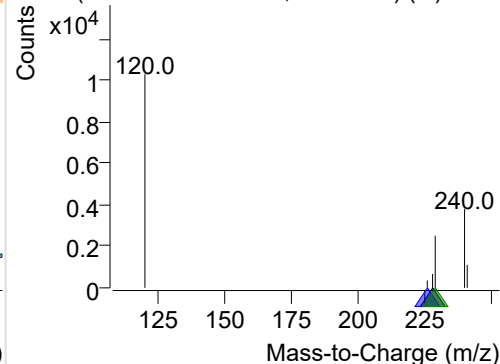
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-023.D

228.0, 226.0, 229.0



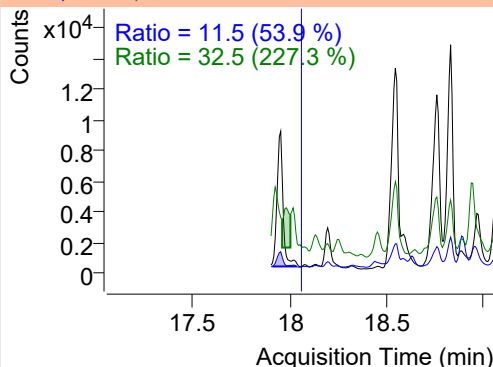
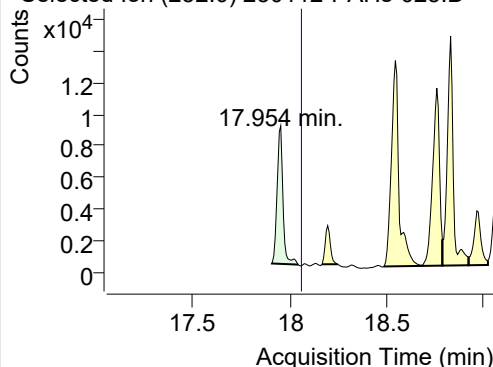
+ SIM (15.806-15.892 min, 17 scans) (**) 2301



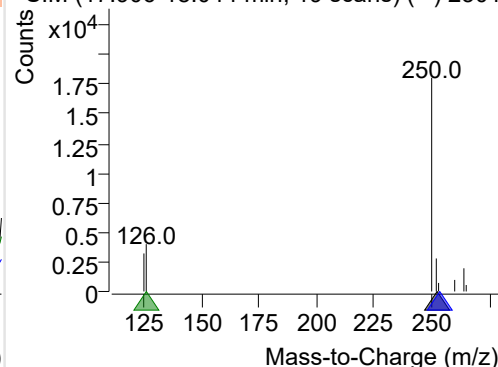
Benzo(b)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-023.D

252.0, 253.0, 126.0

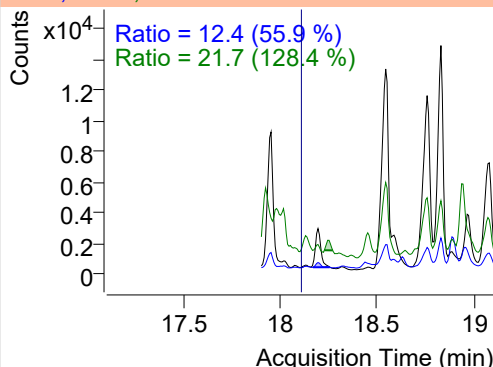
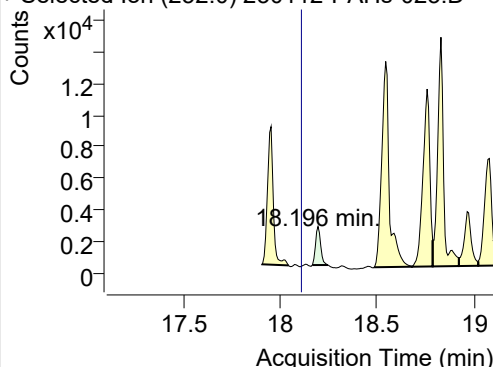


+ SIM (17.906-18.044 min, 19 scans) (**) 2301

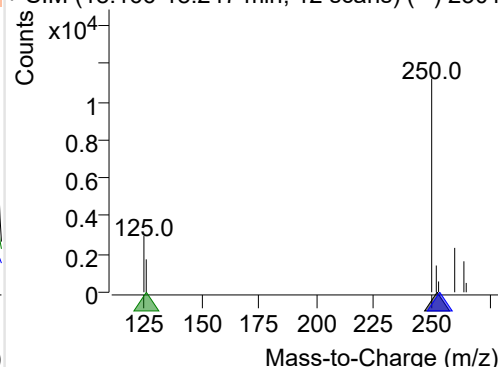
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-023.D

252.0, 253.0, 126.0

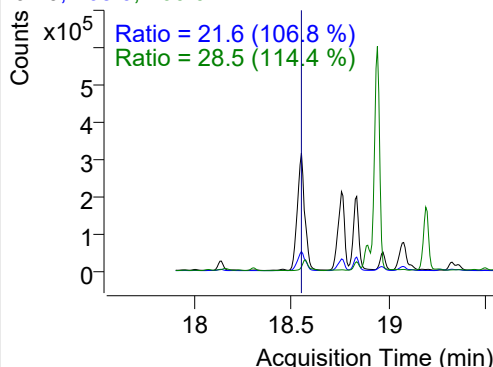
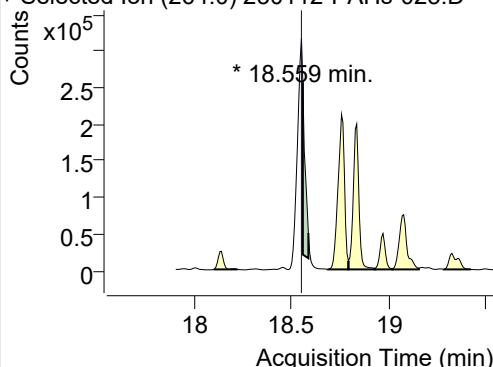


+ SIM (18.166-18.247 min, 12 scans) (**) 2301

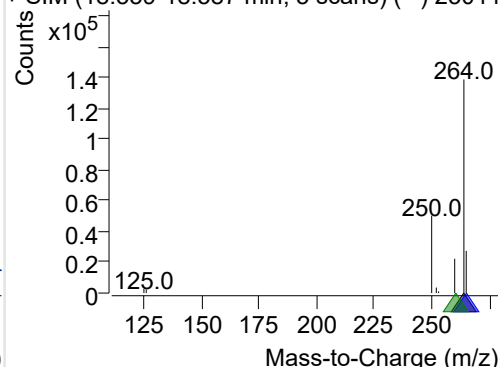
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-023.D

264.0, 265.0, 260.0

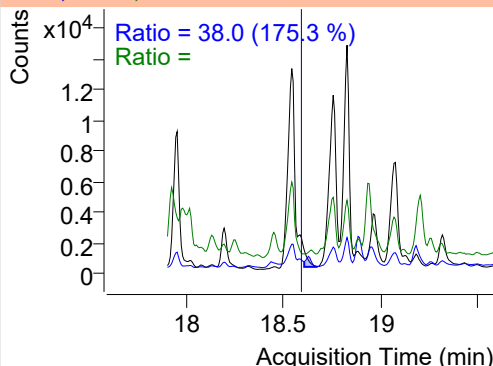
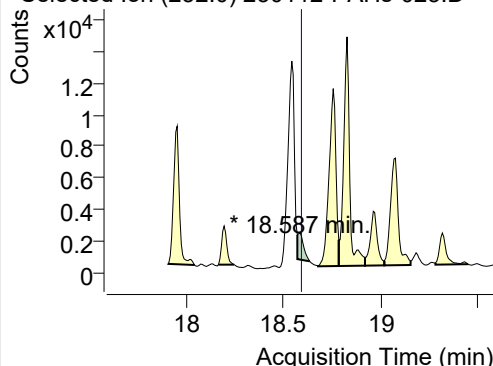


+ SIM (18.559-18.587 min, 5 scans) (**) 23011

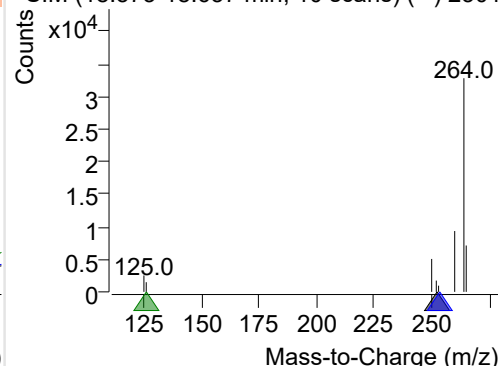
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-023.D

252.0, 253.0, 126.0



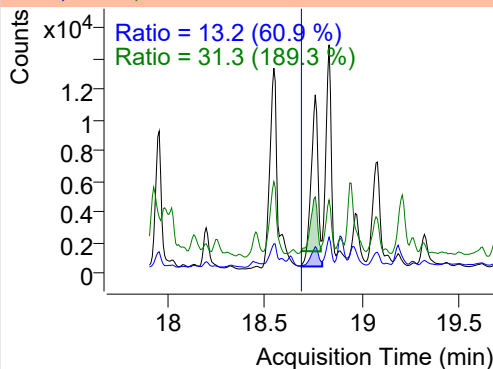
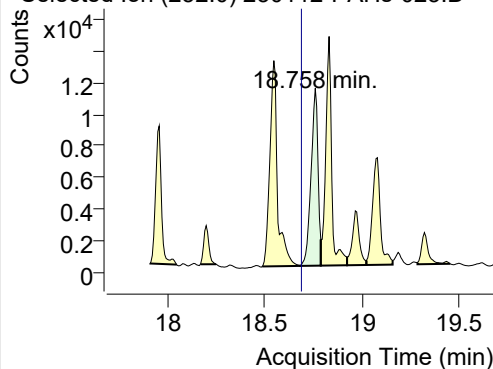
+ SIM (18.573-18.637 min, 10 scans) (**) 2301



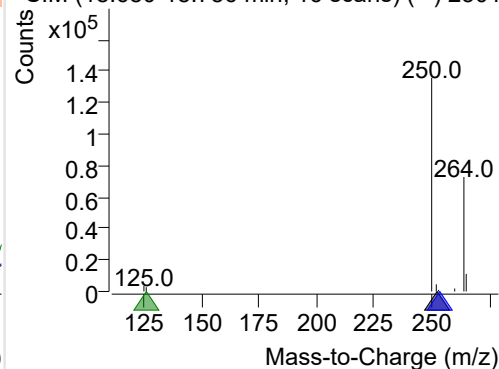
Benzo(a)pyrene

+ Selected Ion (252.0) 230112-PAHs-023.D

252.0, 253.0, 126.0

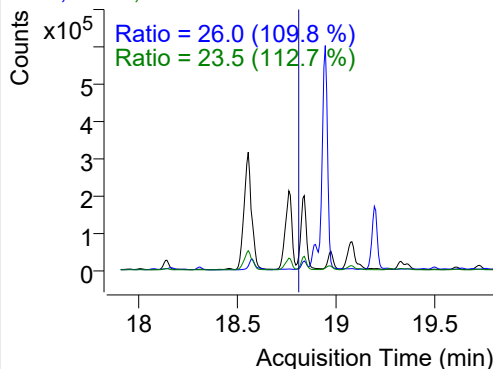
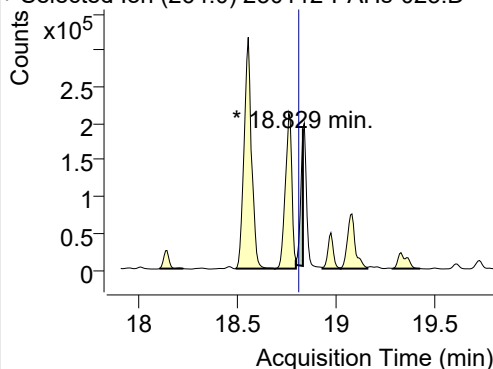


+ SIM (18.680-18.786 min, 16 scans) (**) 2301

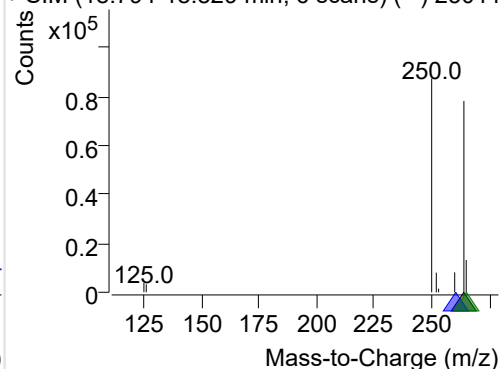
**IS-D12-Perylene**

+ Selected Ion (264.0) 230112-PAHs-023.D

264.0, 260.0, 265.0

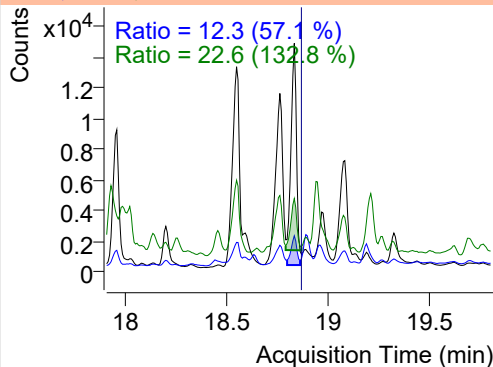
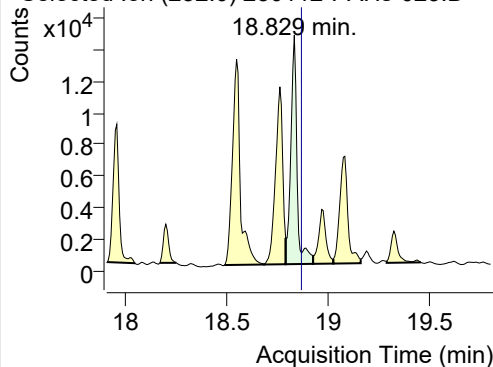


+ SIM (18.794-18.829 min, 6 scans) (**) 23011

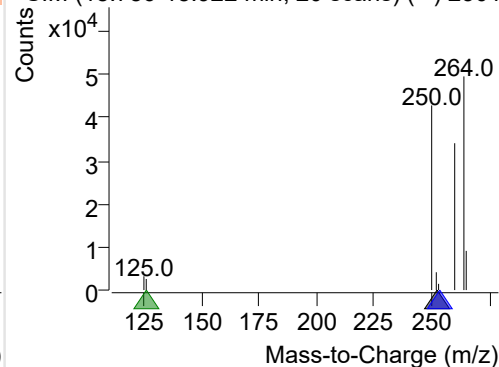
**Perylene**

+ Selected Ion (252.0) 230112-PAHs-023.D

252.0, 253.0, 126.0

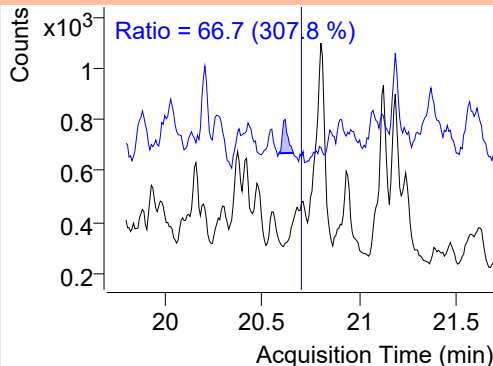
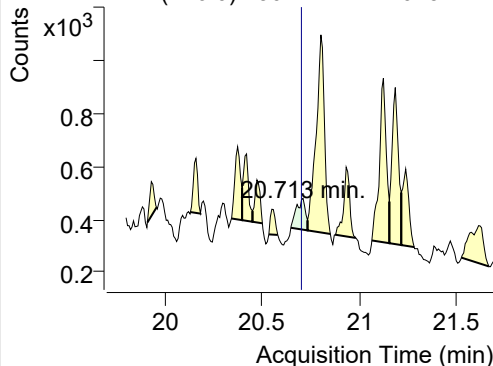


+ SIM (18.786-18.922 min, 20 scans) (**) 2301

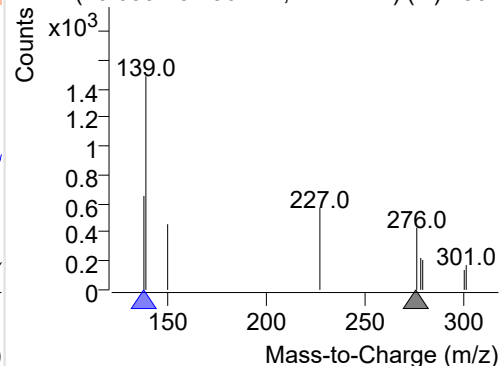
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 230112-PAHs-023.D

276.0, 138.0



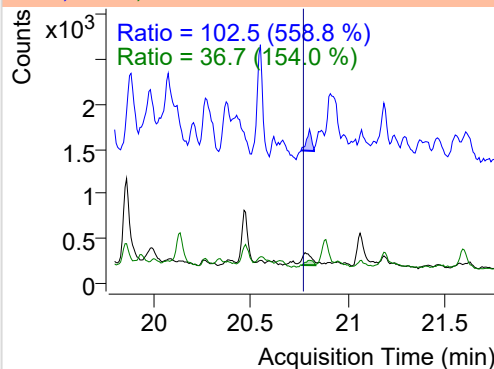
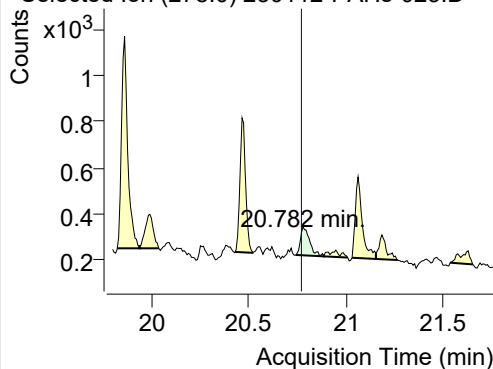
+ SIM (20.650-20.736 min, 12 scans) (**) 2301



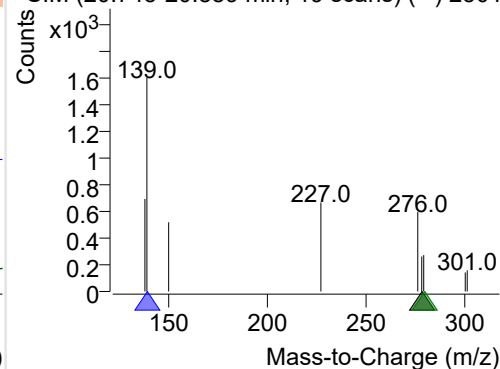
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-023.D

278.0, 139.0, 279.0

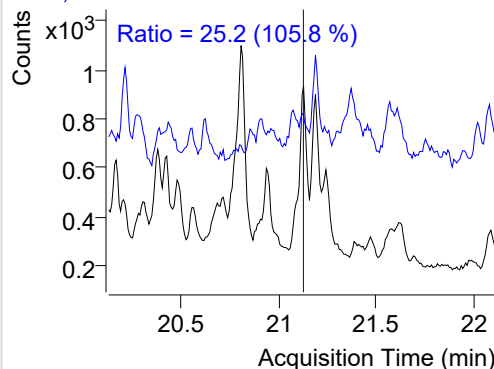
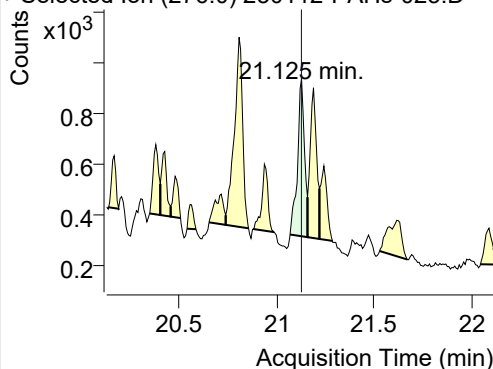


+ SIM (20.745-20.889 min, 19 scans) (**) 2301

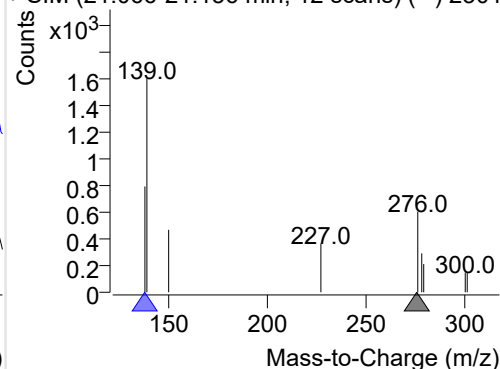
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 230112-PAHs-023.D

276.0, 138.0

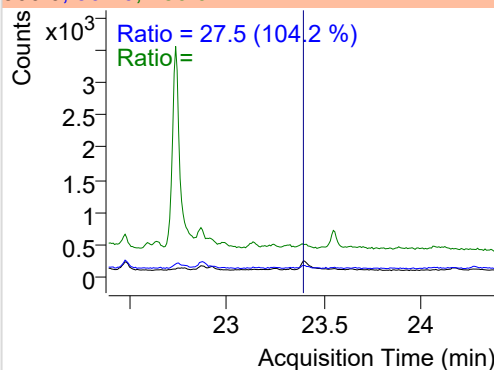
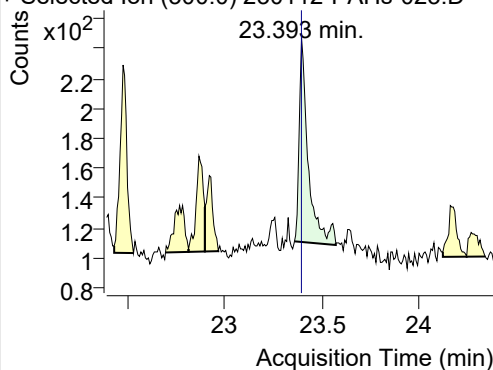


+ SIM (21.066-21.156 min, 12 scans) (**) 2301

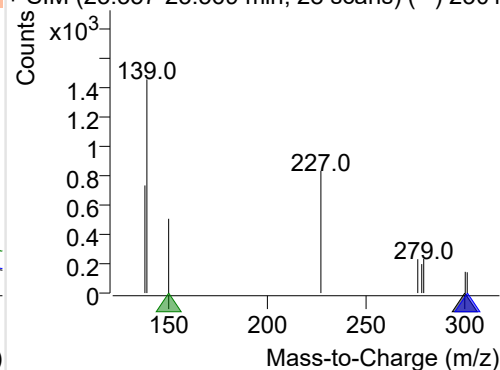
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-023.D

300.0, 301.0, 150.0



+ SIM (23.357-23.569 min, 28 scans) (**) 2301



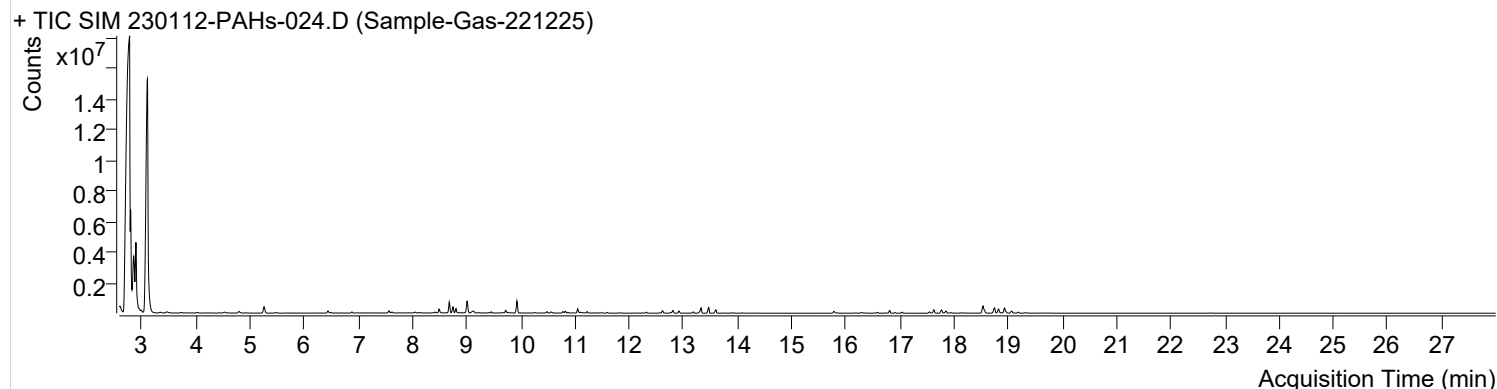
Quantitative Analysis Sample Based Report



Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-12 오후 11:40:57	Data File	230112-PAHs-024.D
Type	Sample	Name	Sample-Gas-221225
Dil.	1	Acq. Method File	PAHs 19mix-Method

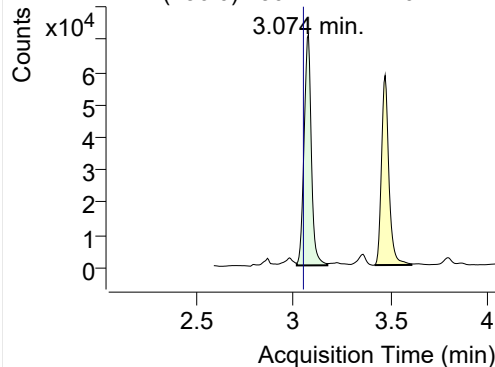
Sample Chromatogram



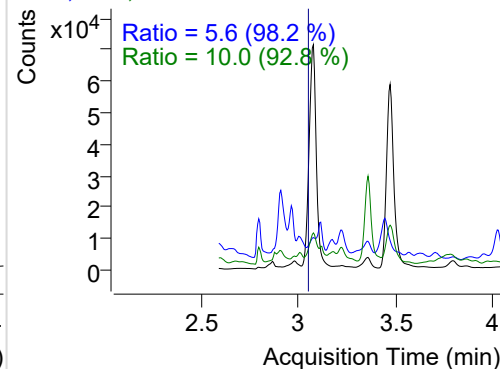
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	183986	70966.92	ND ng/ml	10.0
Naphthalene	3.095	128.0	28844856	8384879.15	ND ng/ml	16.6
Acenaphthylene	6.108	152.0	6729	3471.24	ND ng/ml	18.4
IS-D10-Acenaphthene	6.439	164.0	123652	68860.09	ND ng/ml	91.3
Acenaphthene	6.499	154.0	18902	10390.88	ND ng/ml	122.6
LSS-D10-Fluorene	7.564	176.0	104158	65329.10	ND ng/ml	90.2
Fluorene	7.617	166.0	52184	29785.68	ND ng/ml	96.1
IS-D10-Phenanthrene	9.717	188.0	210682	125641.35	ND ng/ml	16.3
Phenanthrene	9.769	178.0	37263	22745.50	ND ng/ml	17.9
Anthracene	9.843	178.0	4680	2682.21	ND ng/ml	
Fluoranthene	12.467	202.0	4176	2591.63	ND ng/ml	
LSS-D10-Pyrene	12.917	212.0	151487	94060.97	ND ng/ml	17.5
Pyrene	12.949	202.0	4392	2734.87	ND ng/ml	
Benz(a)anthracene	15.751	228.0	1539	518.26	ND ng/ml	35.7
IS-D12-Chrysene	15.779	240.0	144492	84101.63	ND ng/ml	22.3
Chrysene	15.844	228.0	1732	573.26	ND ng/ml	23.3
Benzo(b)fluoranthene	17.939	252.0	10259	5042.19	ND ng/ml	11.4
Benzo(k)fluoranthene	18.189	252.0	2880	1520.19	ND ng/ml	17.9
SS-D12-Benzo(e)pyrene	18.552	264.0	179652	145168.99	ND ng/ml	29.1
Benzo(e)pyrene	18.580	252.0	2388	1367.59	ND ng/ml	54.0
Benzo(a)pyrene	18.744	252.0	15047	6196.19	ND ng/ml	14.3
IS-D12-Perylene	18.822	264.0	183610	140533.88	ND ng/ml	19.6
Perylene	18.872	252.0	1291	518.19	ND ng/ml	36.8
Indeno(1,2,3-c,d)pyrene	20.705	276.0	186	59.50	ND ng/ml	
Dibenz(a,h)anthracene	20.782	278.0	281	91.62	ND ng/ml	93.0
Benzo(g,h,i)perylene	21.118	276.0	943	400.50	ND ng/ml	47.9
Coronene	23.393	300.0	341	91.20	ND ng/ml	

IS-D8-Naphthalene

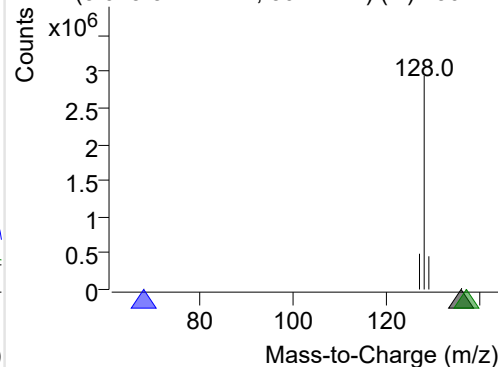
+ Selected Ion (136.0) 230112-PAHs-024.D



136.0, 68.0, 137.0

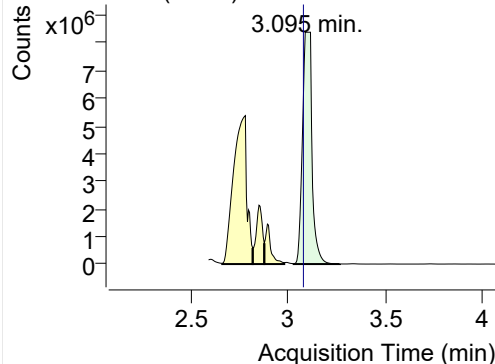


+ SIM (3.015-3.172 min, 30 scans) (**) 230112

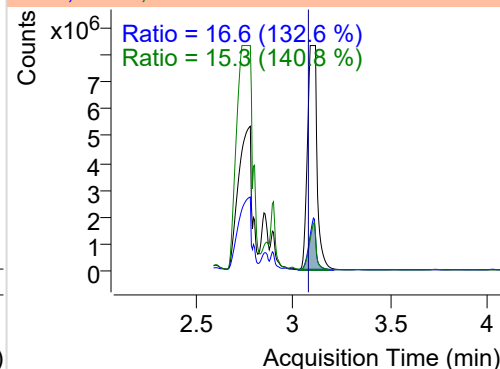


Naphthalene

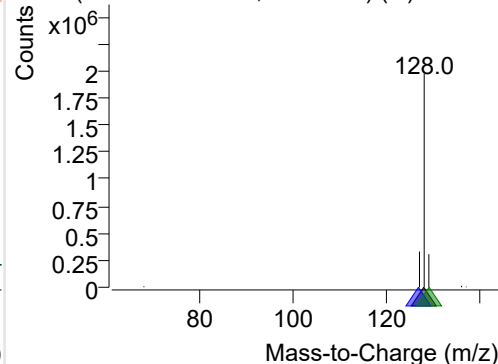
+ Selected Ion (128.0) 230112-PAHs-024.D



128.0, 127.0, 129.0

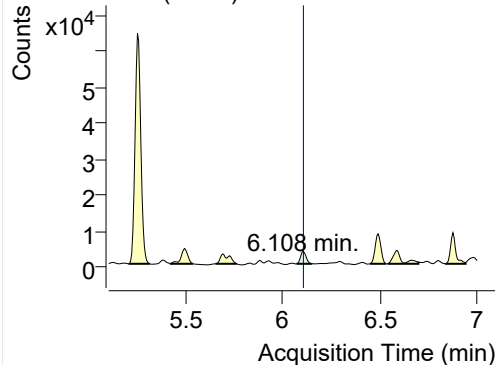


+ SIM (3.026-3.264 min, 45 scans) (**) 230112

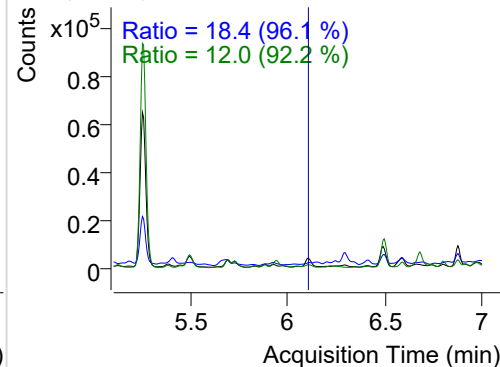


Acenaphthylene

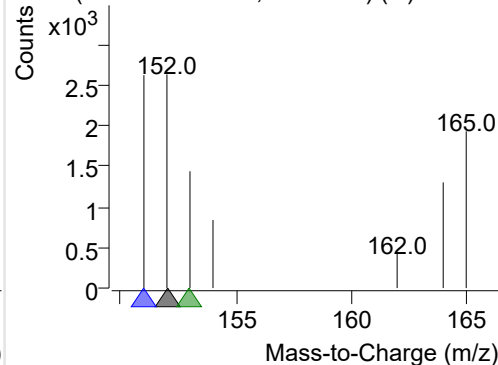
+ Selected Ion (152.0) 230112-PAHs-024.D



152.0, 151.0, 153.0

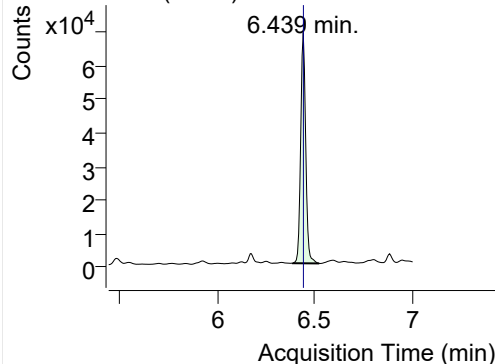


+ SIM (6.073-6.149 min, 13 scans) (**) 230112

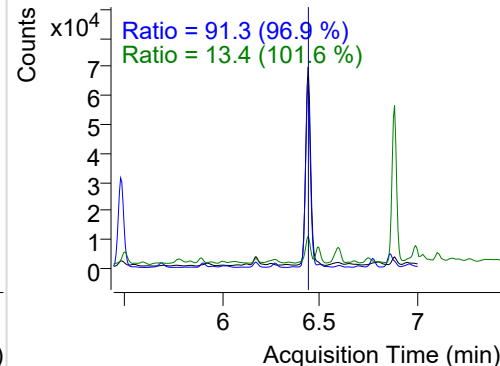


IS-D10-Acenaphthene

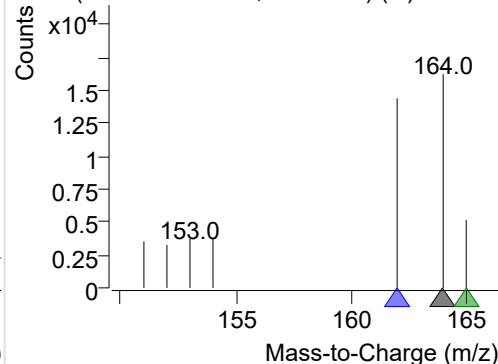
+ Selected Ion (164.0) 230112-PAHs-024.D



164.0, 162.0, 165.0

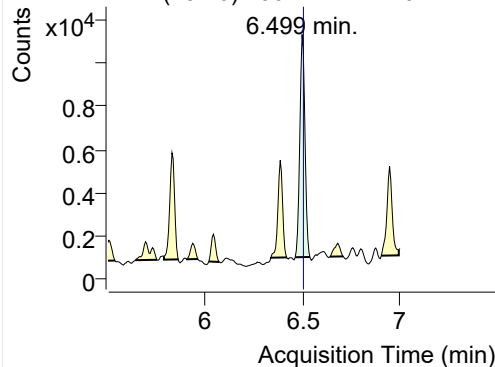


+ SIM (6.386-6.522 min, 23 scans) (**) 230112

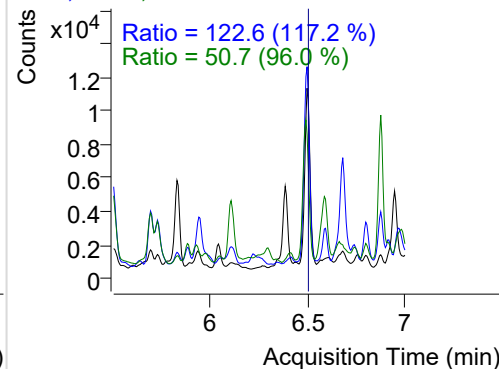


Acenaphthene

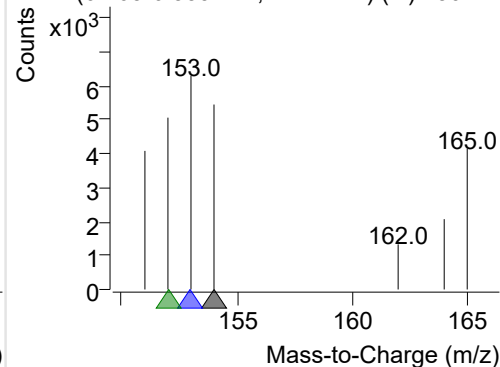
+ Selected Ion (154.0) 230112-PAHs-024.D



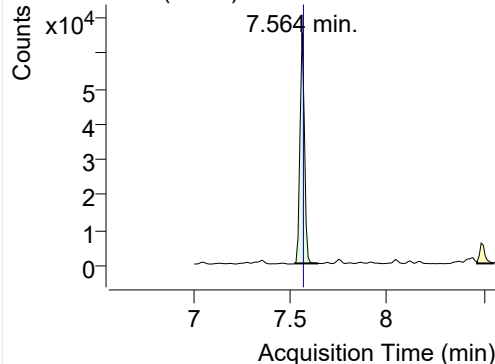
154.0, 153.0, 152.0



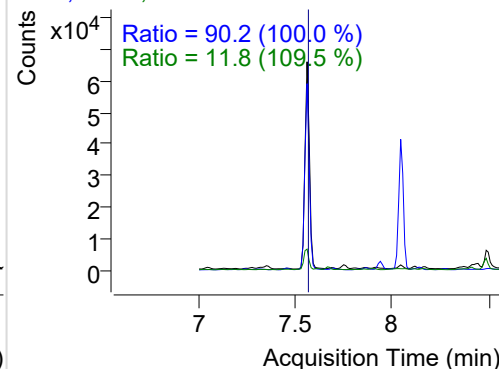
+ SIM (6.463-6.539 min, 12 scans) (**) 230112

**LSS-D10-Fluorene**

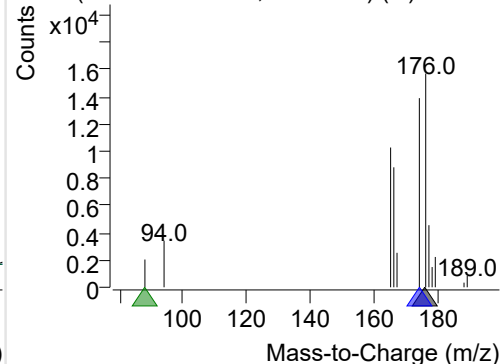
+ Selected Ion (176.0) 230112-PAHs-024.D



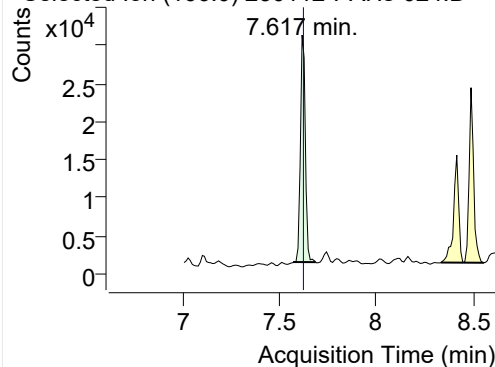
176.0, 174.0, 88.0



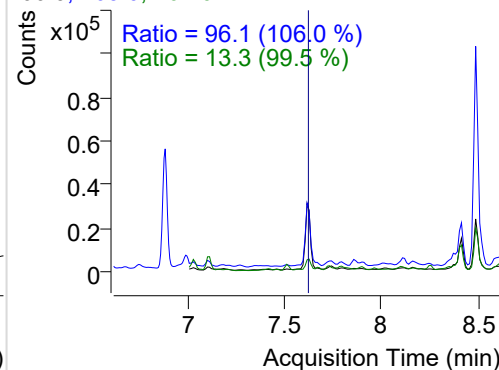
+ SIM (7.525-7.648 min, 11 scans) (**) 230112

**Fluorene**

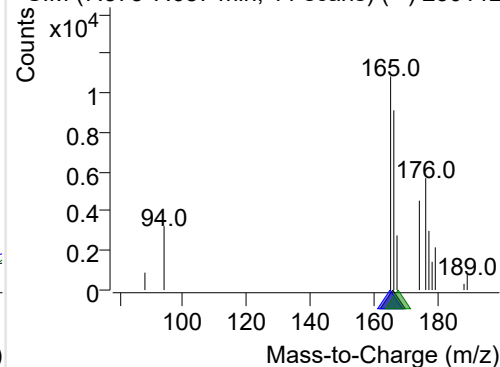
+ Selected Ion (166.0) 230112-PAHs-024.D



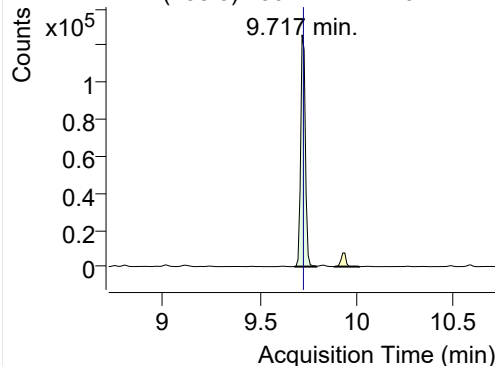
166.0, 165.0, 167.0



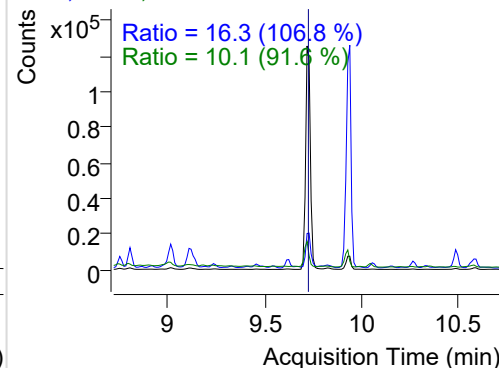
+ SIM (7.575-7.687 min, 11 scans) (**) 230112

**IS-D10-Phenanthrene**

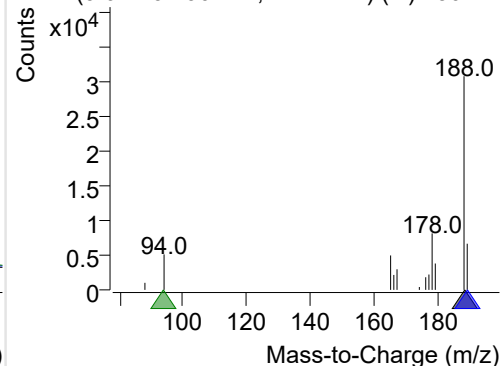
+ Selected Ion (188.0) 230112-PAHs-024.D



188.0, 189.0, 94.0

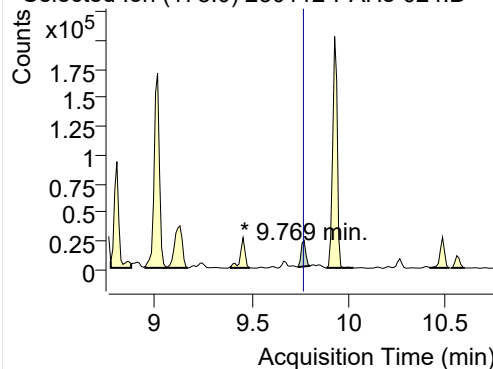


+ SIM (9.677-9.790 min, 11 scans) (**) 230112

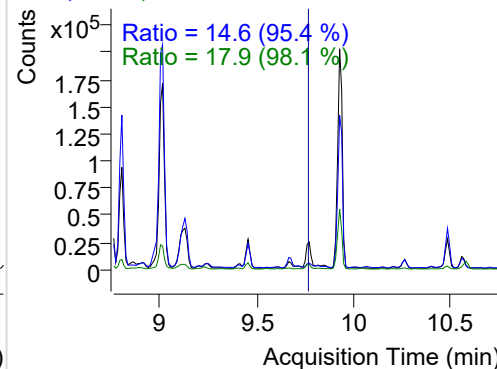


Phenanthrene

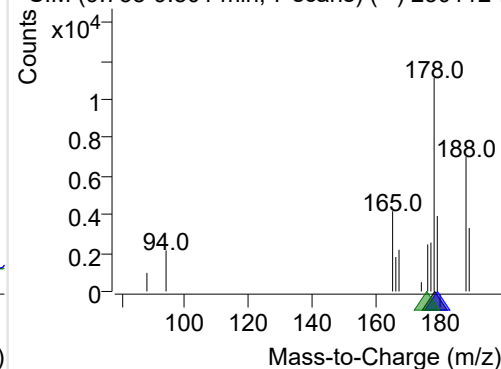
+ Selected Ion (178.0) 230112-PAHs-024.D



178.0, 179.0, 176.0

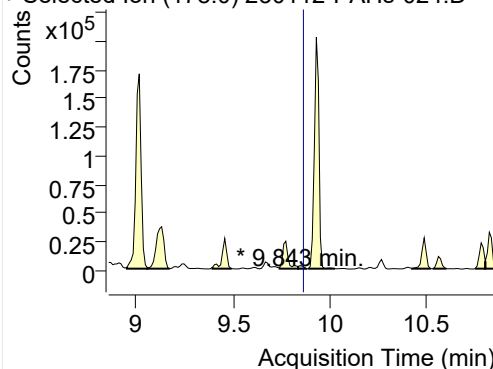


+ SIM (9.738-9.801 min, 7 scans) (**) 230112-I

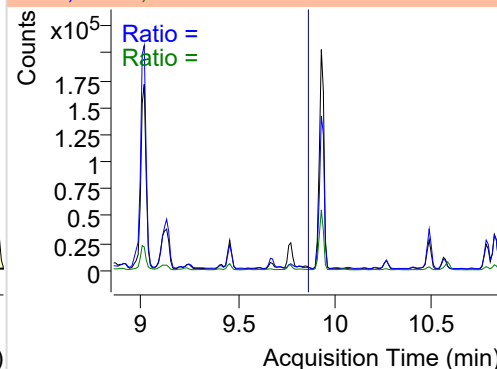


Anthracene

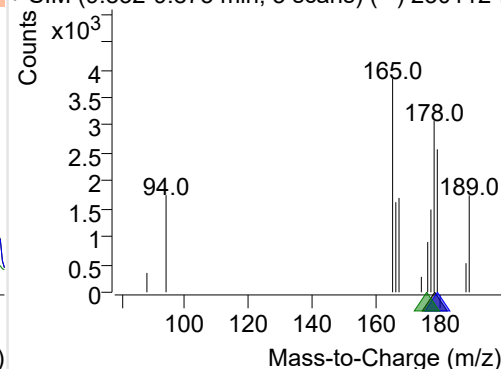
+ Selected Ion (178.0) 230112-PAHs-024.D



178.0, 179.0, 176.0

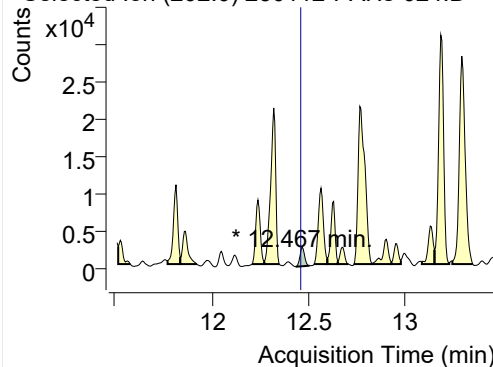


+ SIM (9.832-9.875 min, 5 scans) (**) 230112-I

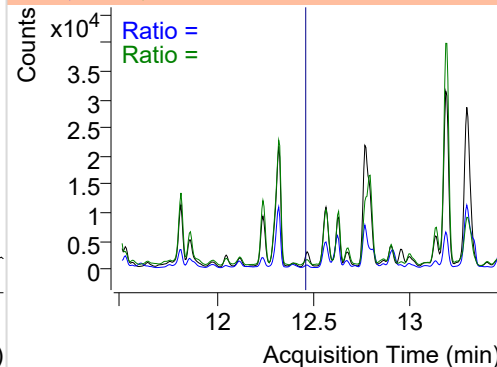


Fluoranthene

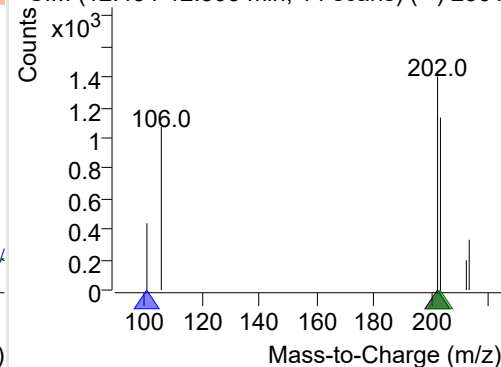
+ Selected Ion (202.0) 230112-PAHs-024.D



202.0, 101.0, 203.0

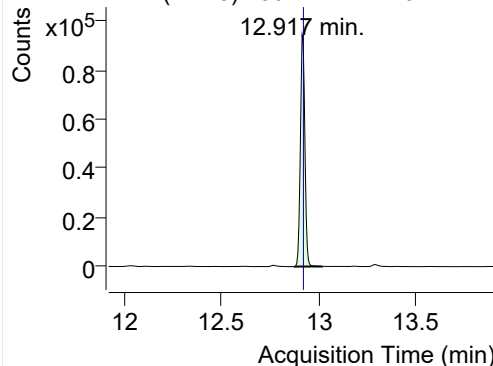


+ SIM (12.434-12.505 min, 14 scans) (**) 2301

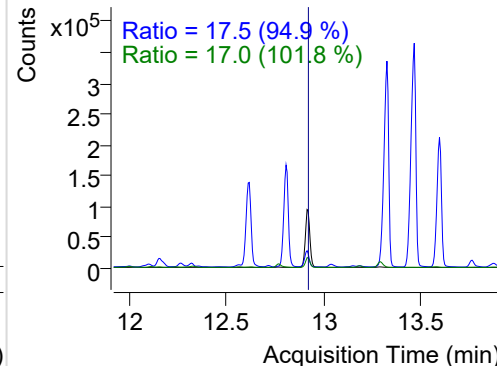


LSS-D10-Pyrene

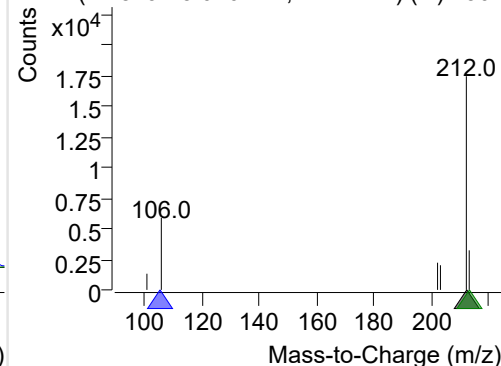
+ Selected Ion (212.0) 230112-PAHs-024.D



212.0, 106.0, 213.0



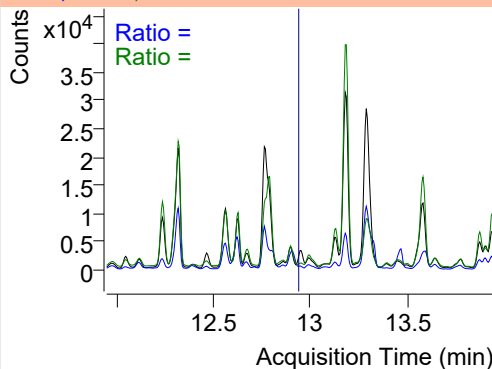
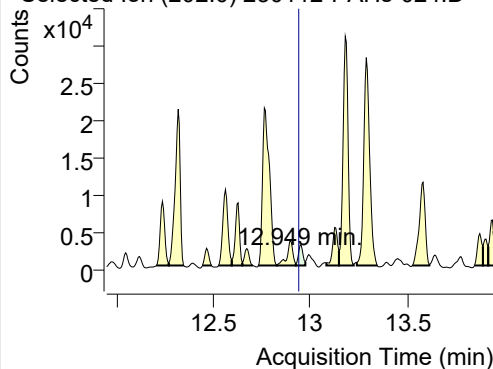
+ SIM (12.879-13.020 min, 27 scans) (**) 2301



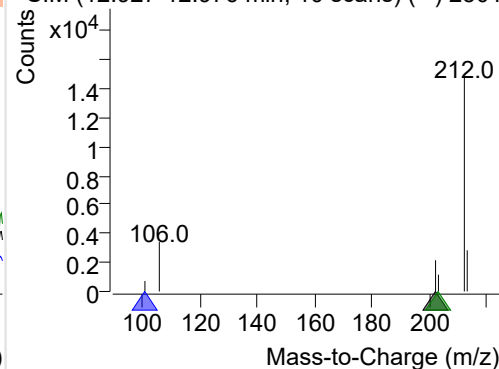
Pyrene

+ Selected Ion (202.0) 230112-PAHs-024.D

202.0, 101.0, 203.0

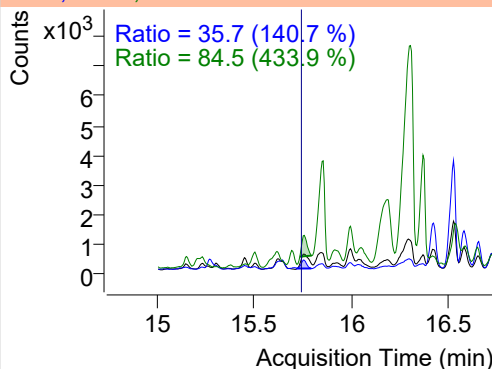
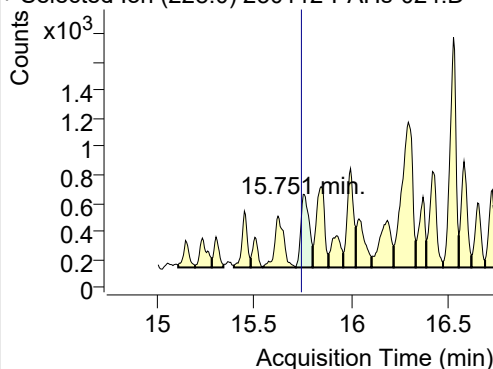


+ SIM (12.927-12.976 min, 10 scans) (**) 2301

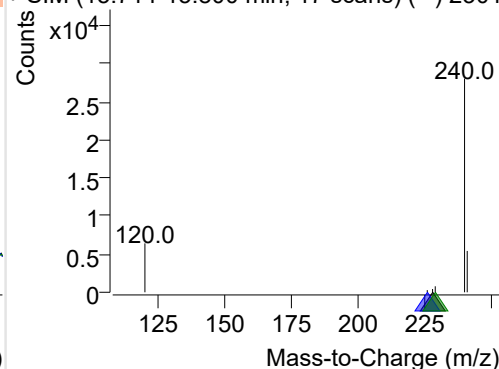
**Benz(a)anthracene**

+ Selected Ion (228.0) 230112-PAHs-024.D

228.0, 226.0, 229.0

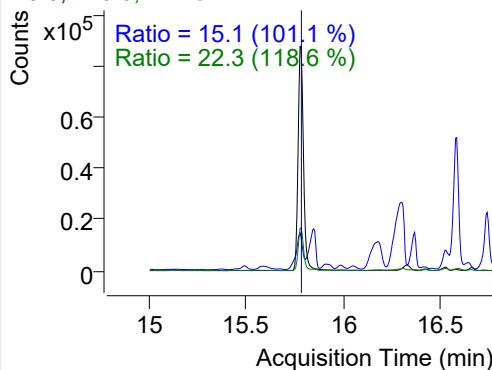
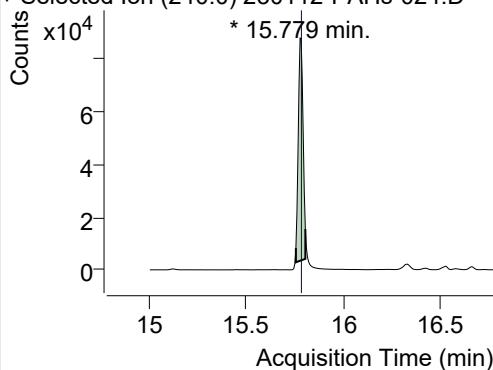


+ SIM (15.714-15.800 min, 17 scans) (**) 2301

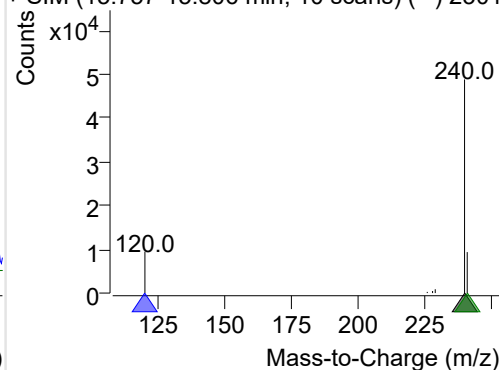
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-024.D

240.0, 120.0, 241.0

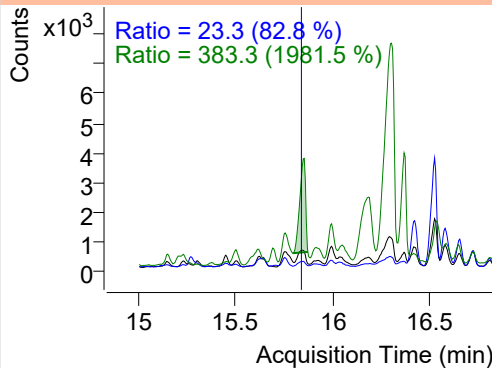
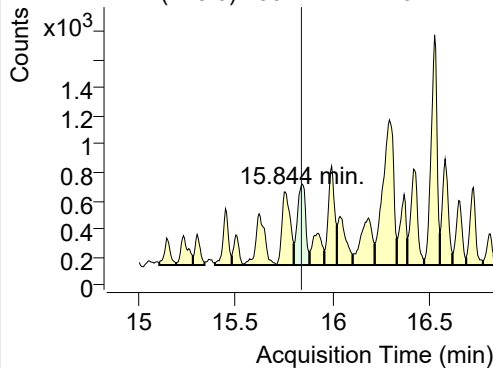


+ SIM (15.757-15.806 min, 10 scans) (**) 2301

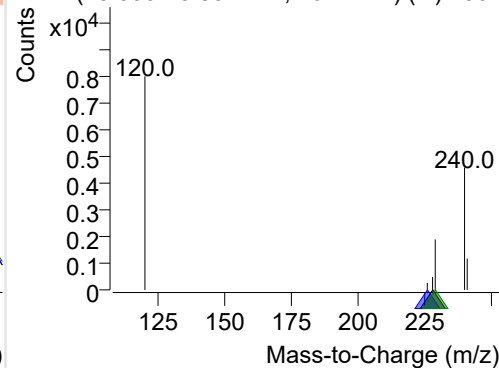
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-024.D

228.0, 226.0, 229.0



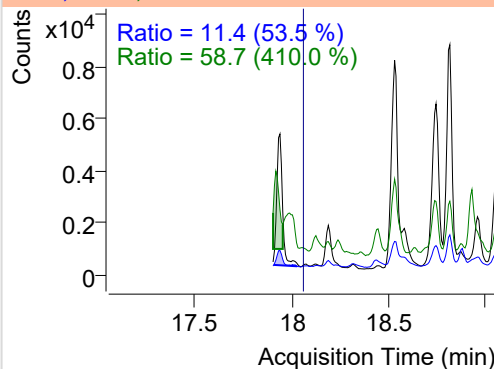
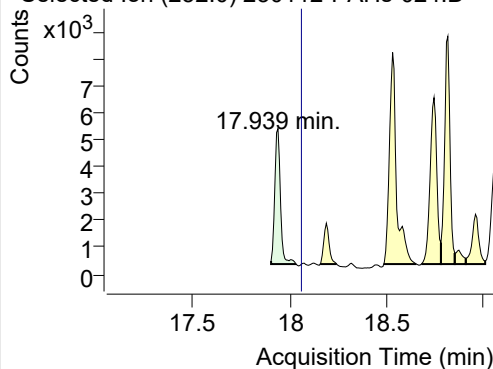
+ SIM (15.800-15.882 min, 16 scans) (**) 2301



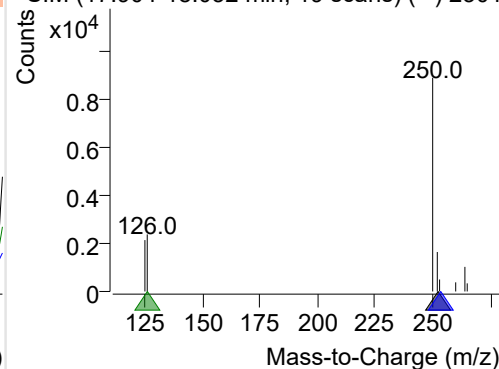
Benzo(b)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-024.D

252.0, 253.0, 126.0

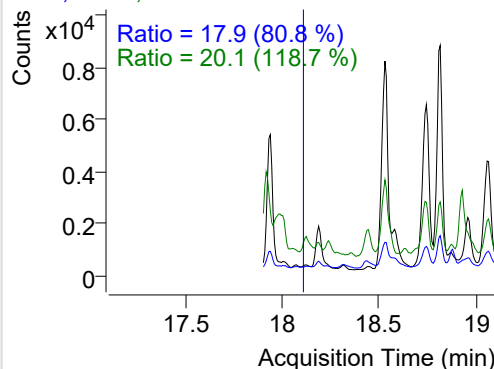
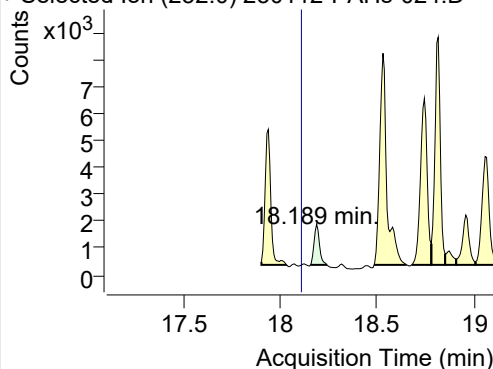


+ SIM (17.904-18.032 min, 19 scans) (**) 2301

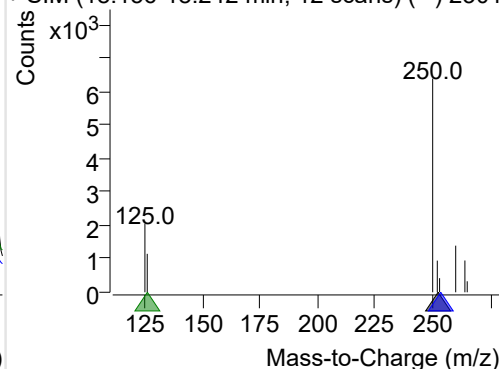
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-024.D

252.0, 253.0, 126.0

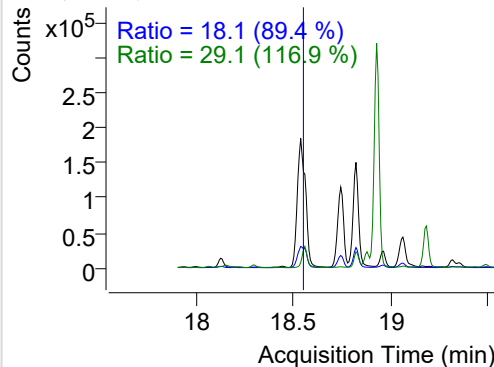
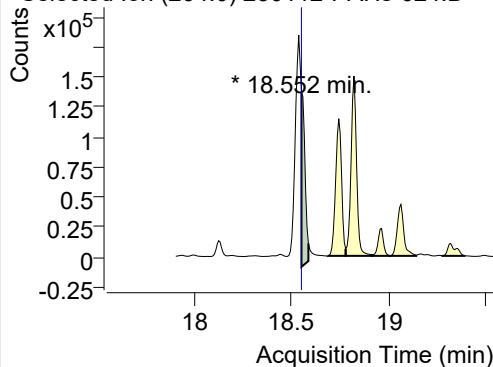


+ SIM (18.156-18.242 min, 12 scans) (**) 2301

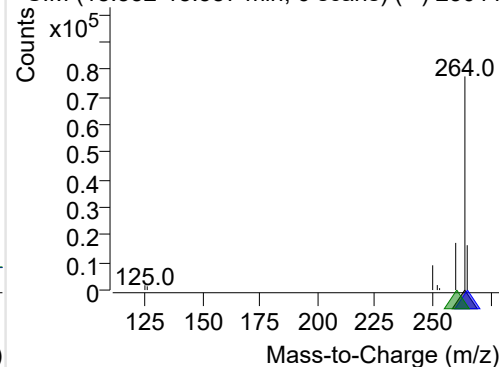
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-024.D

264.0, 265.0, 260.0

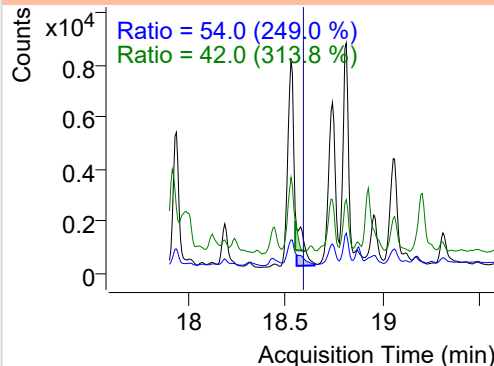
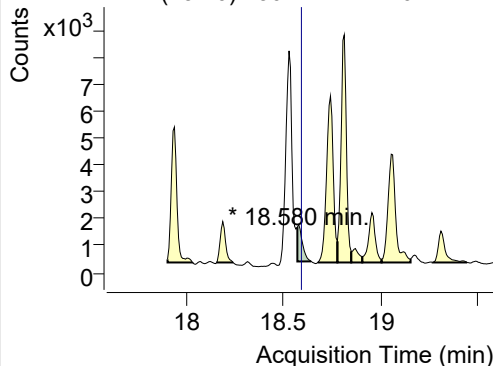


+ SIM (18.552-18.587 min, 6 scans) (**) 23011

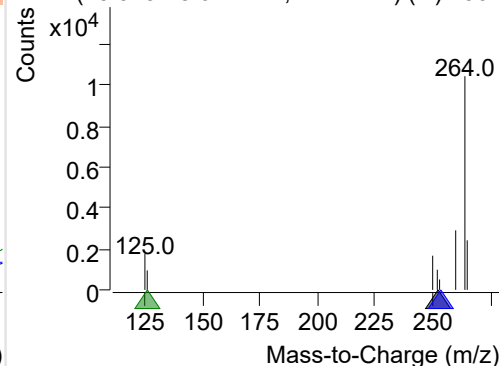
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-024.D

252.0, 253.0, 126.0



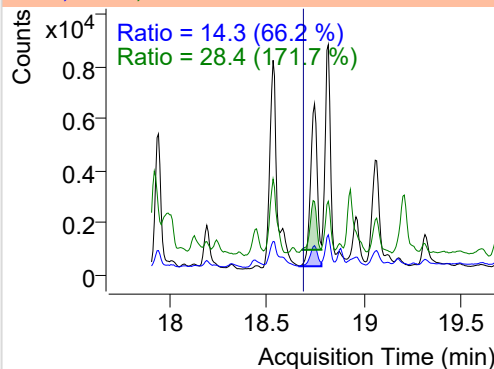
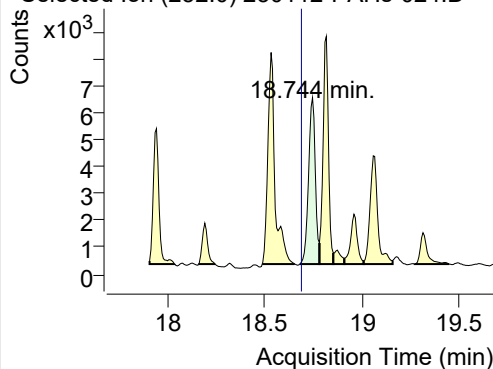
+ SIM (18.573-18.644 min, 11 scans) (**) 2301



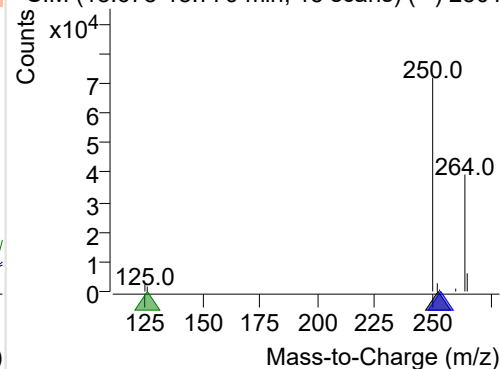
Benzo(a)pyrene

+ Selected Ion (252.0) 230112-PAHs-024.D

252.0, 253.0, 126.0

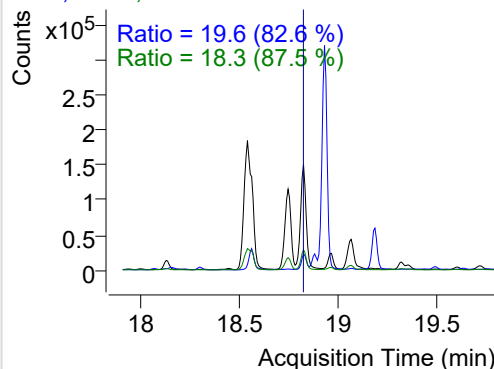
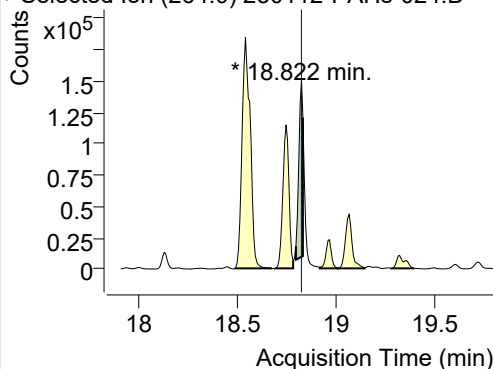


+ SIM (18.678-18.779 min, 15 scans) (**) 2301

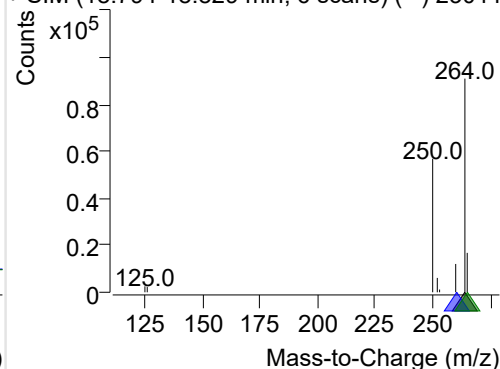
**IS-D12-Perylene**

+ Selected Ion (264.0) 230112-PAHs-024.D

264.0, 260.0, 265.0

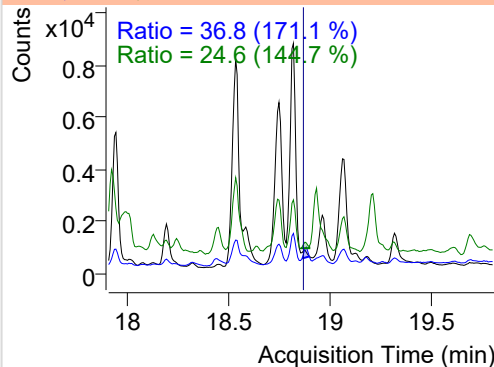
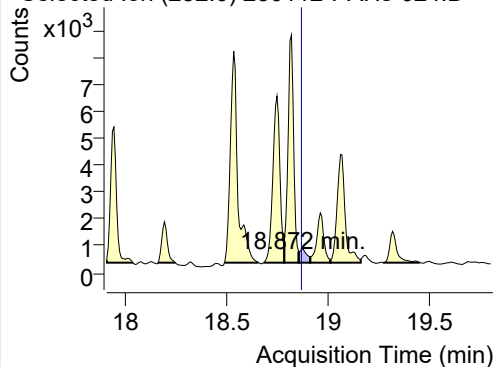


+ SIM (18.794-18.829 min, 6 scans) (**) 23011

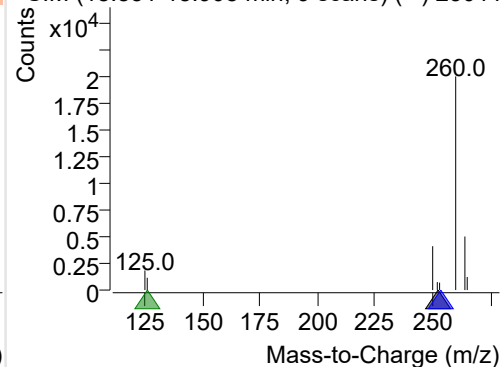
**Perylene**

+ Selected Ion (252.0) 230112-PAHs-024.D

252.0, 253.0, 126.0

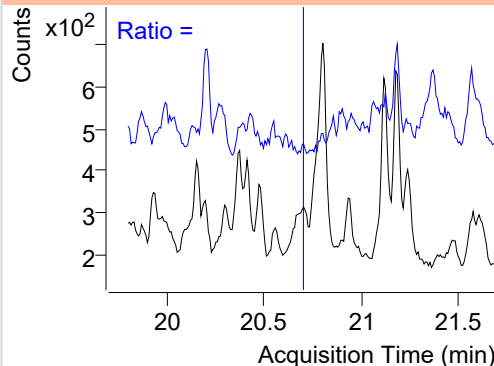
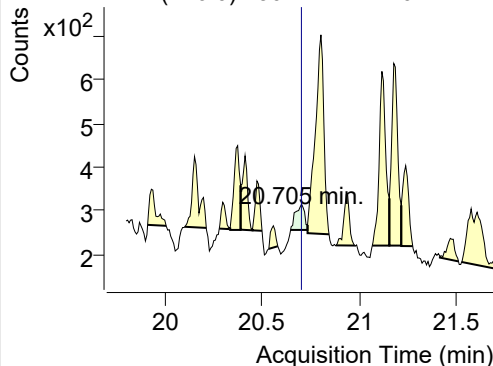


+ SIM (18.851-18.908 min, 9 scans) (**) 23011

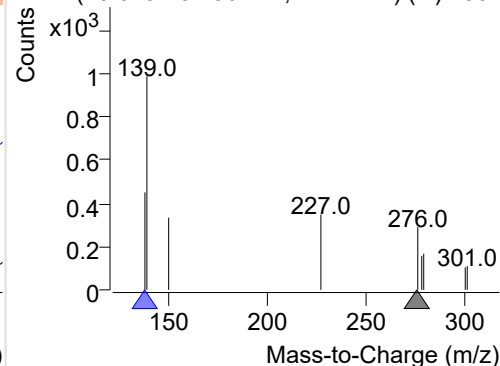
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 230112-PAHs-024.D

276.0, 138.0



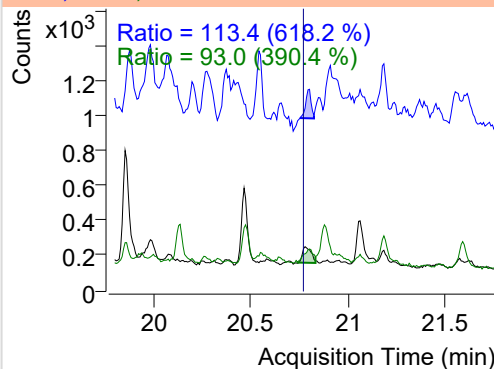
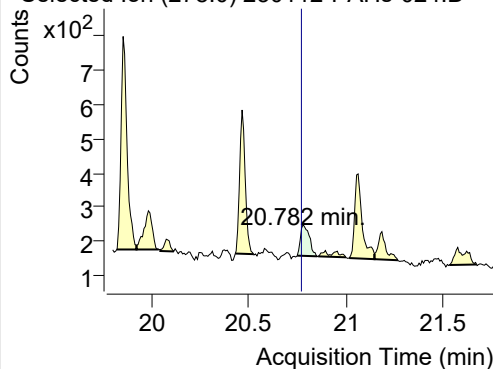
+ SIM (20.649-20.736 min, 12 scans) (**) 2301



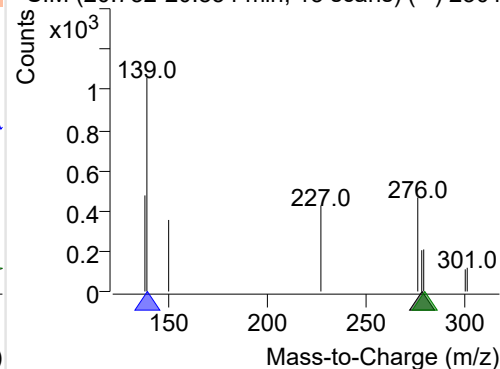
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-024.D

278.0, 139.0, 279.0

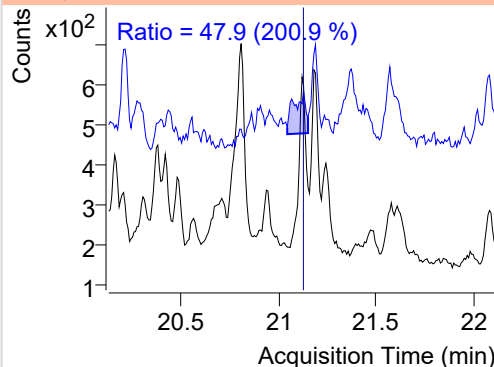
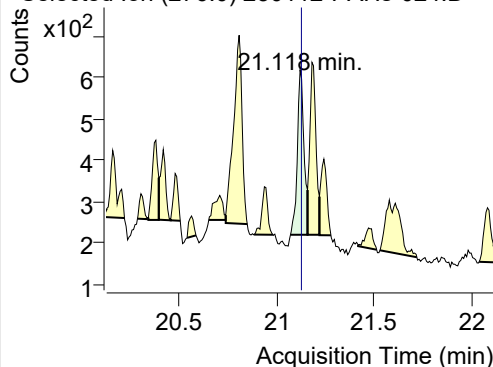


+ SIM (20.752-20.854 min, 13 scans) (**) 2301

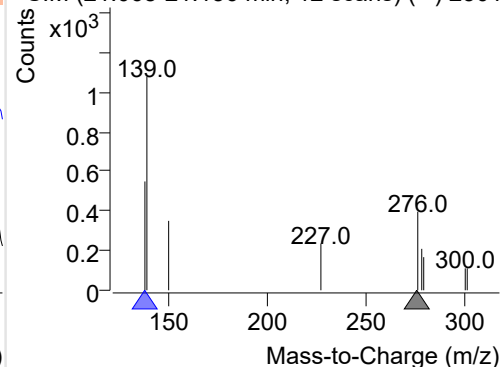
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 230112-PAHs-024.D

276.0, 138.0

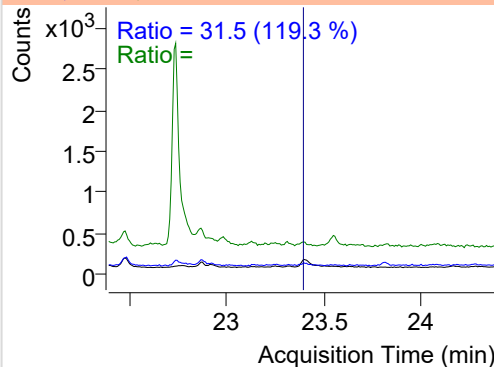
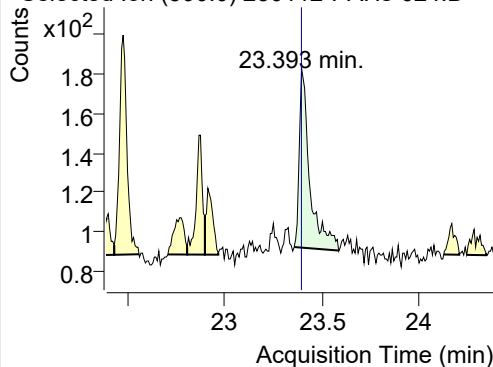


+ SIM (21.068-21.156 min, 12 scans) (**) 2301

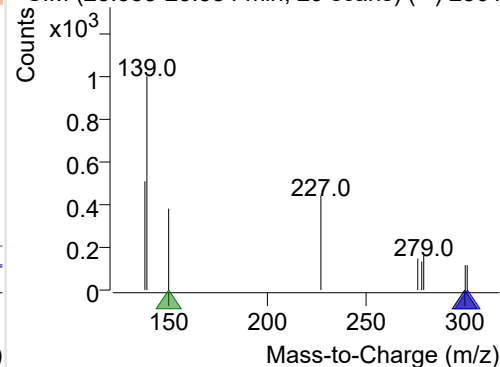
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-024.D

300.0, 301.0, 150.0



+ SIM (23.355-23.584 min, 29 scans) (**) 2301



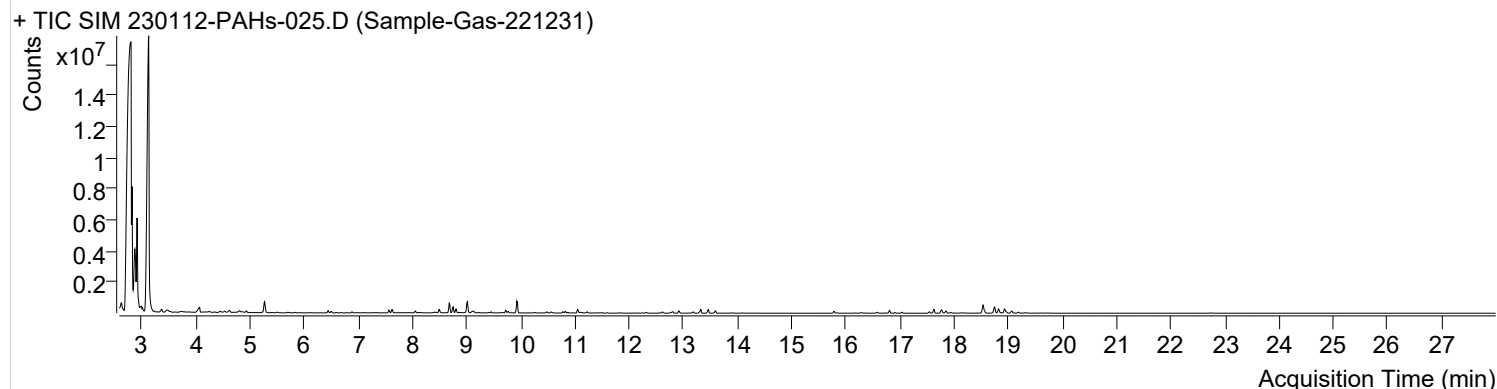
Quantitative Analysis Sample Based Report



Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 12:12:20	Data File	230112-PAHs-025.D
Type	Sample	Name	Sample-Gas-221231
Dil.	1	Acq. Method File	PAHs 19mix-Method

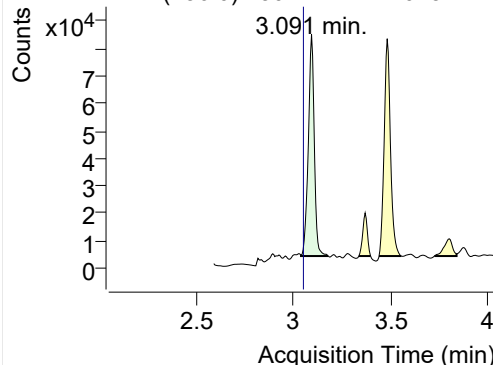
Sample Chromatogram



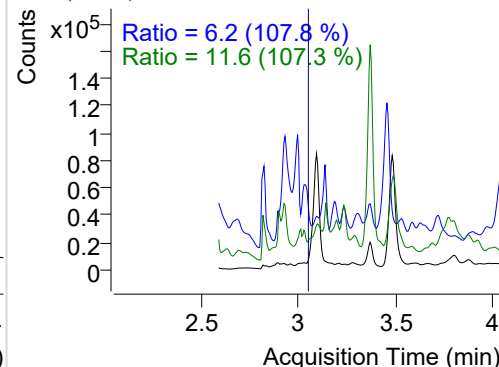
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.091	136.0	171530	80690.90	ND ng/ml	11.6
Naphthalene	3.113	128.0	29022337	8383244.52	ND ng/ml	19.3
Acenaphthylene	6.108	152.0	21668	12384.52	ND ng/ml	19.8
IS-D10-Acenaphthene	6.439	164.0	122739	69905.09	ND ng/ml	89.9
Acenaphthene	6.504	154.0	44282	25503.50	ND ng/ml	104.8
LSS-D10-Fluorene	7.564	176.0	120318	77267.74	ND ng/ml	90.0
Fluorene	7.627	166.0	179277	101433.50	ND ng/ml	91.4
IS-D10-Phenanthrene	9.727	188.0	206193	118757.40	ND ng/ml	17.5
Phenanthrene	9.769	178.0	91868	60829.75	ND ng/ml	17.9
Anthracene	9.853	178.0	5034	2659.66	ND ng/ml	
Fluoranthene	12.467	202.0	9574	6002.25	ND ng/ml	18.5
LSS-D10-Pyrene	12.916	212.0	173380	106449.31	ND ng/ml	20.8
Pyrene	12.949	202.0	10930	7838.87	ND ng/ml	
Benz(a)anthracene	15.757	228.0	1261	436.25	ND ng/ml	40.0
IS-D12-Chrysene	15.779	240.0	144171	88823.84	ND ng/ml	22.3
Chrysene	15.838	228.0	1514	545.84	ND ng/ml	28.2
Benzo(b)fluoranthene	17.939	252.0	9301	5040.44	ND ng/ml	12.6
Benzo(k)fluoranthene	18.188	252.0	2871	1440.02	ND ng/ml	22.8
SS-D12-Benzo(e)pyrene	18.544	264.0	180232	166220.78	ND ng/ml	21.9
Benzo(e)pyrene	18.580	252.0	1931	980.67	ND ng/ml	159.4
Benzo(a)pyrene	18.744	252.0	16356	6981.00	ND ng/ml	8.6
IS-D12-Perylene	18.822	264.0	160822	129828.33	ND ng/ml	22.1
Perylene	18.872	252.0	1322	521.55	ND ng/ml	79.2
Indeno(1,2,3-c,d)pyrene	20.675	276.0	315	78.00	ND ng/ml	
Dibenz(a,h)anthracene	20.782	278.0	246	78.34	ND ng/ml	87.0
Benzo(g,h,i)perylene	21.125	276.0	934	370.88	ND ng/ml	34.8
Coronene	23.401	300.0	270	81.48	ND ng/ml	

IS-D8-Naphthalene

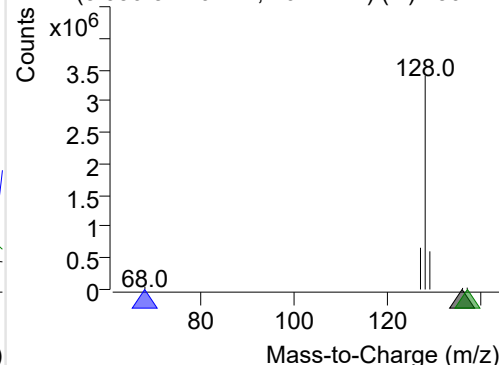
+ Selected Ion (136.0) 230112-PAHs-025.D



136.0, 68.0, 137.0

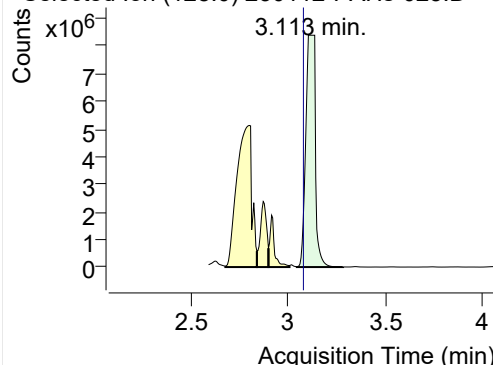


+ SIM (3.036-3.176 min, 26 scans) (**) 230112

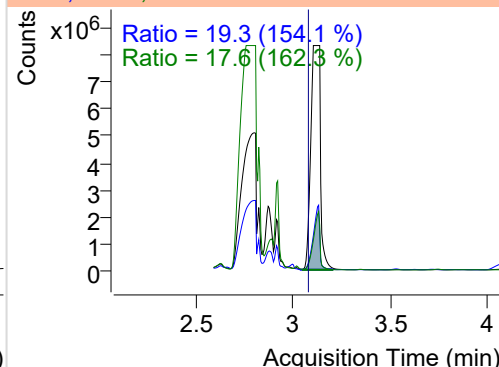


Naphthalene

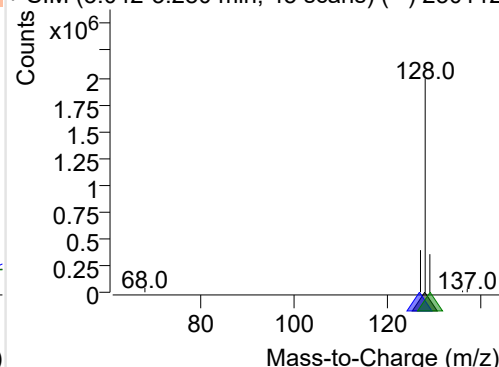
+ Selected Ion (128.0) 230112-PAHs-025.D



128.0, 127.0, 129.0

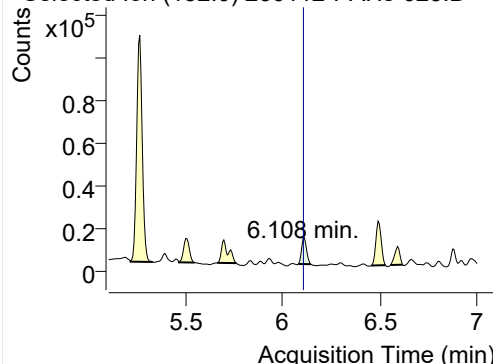


+ SIM (3.042-3.280 min, 45 scans) (**) 230112

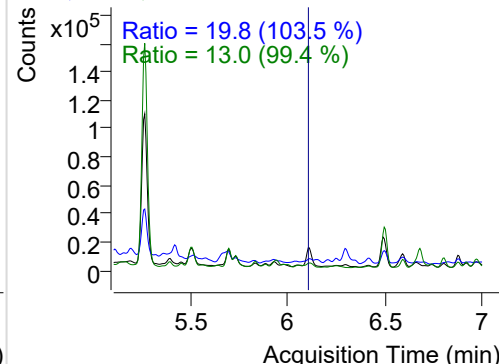


Acenaphthylene

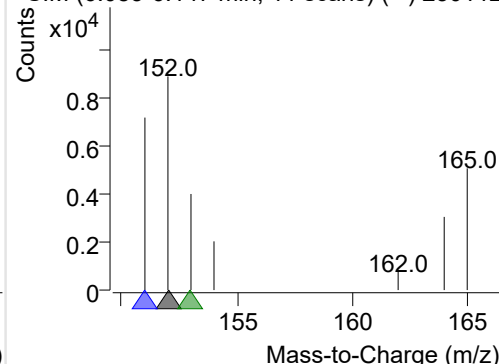
+ Selected Ion (152.0) 230112-PAHs-025.D



152.0, 151.0, 153.0

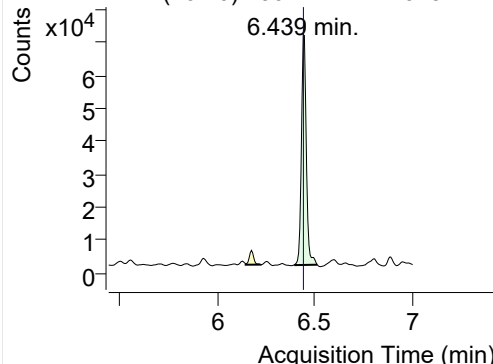


+ SIM (6.083-6.147 min, 11 scans) (**) 230112

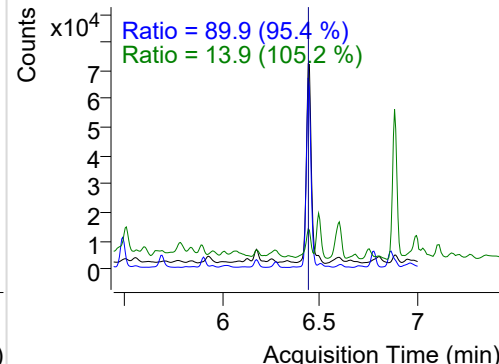


IS-D10-Acenaphthene

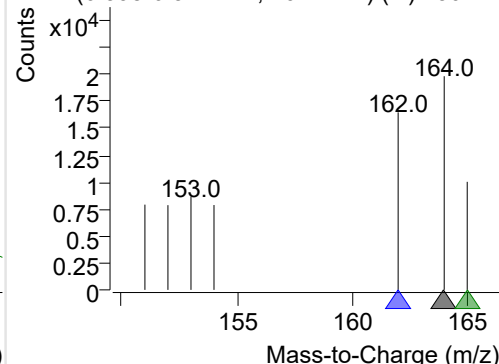
+ Selected Ion (164.0) 230112-PAHs-025.D



164.0, 162.0, 165.0

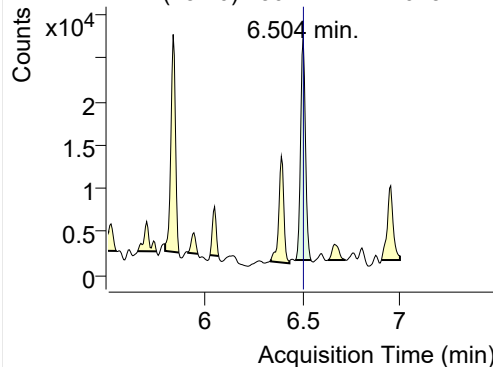


+ SIM (6.398-6.511 min, 20 scans) (**) 230112

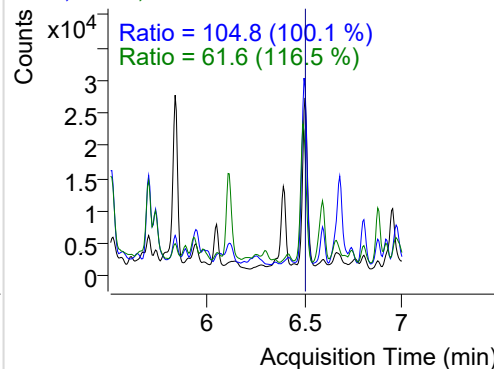


Acenaphthene

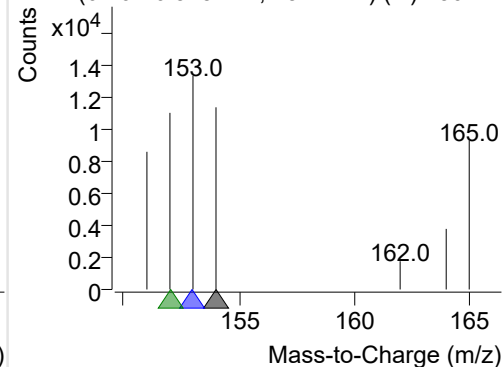
+ Selected Ion (154.0) 230112-PAHs-025.D



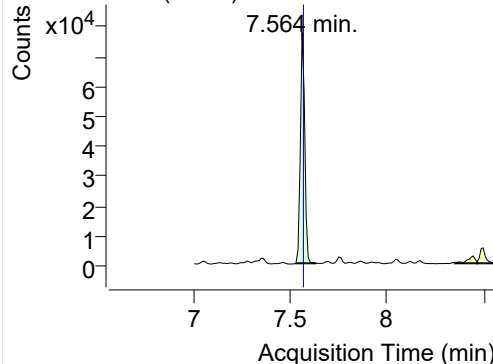
154.0, 153.0, 152.0



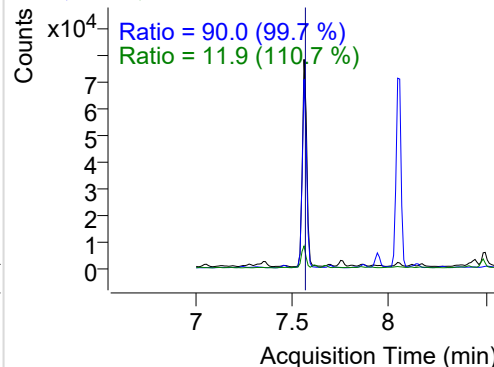
+ SIM (6.464-6.545 min, 13 scans) (**) 230112

**LSS-D10-Fluorene**

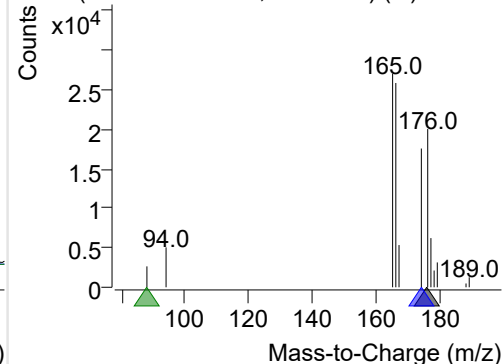
+ Selected Ion (176.0) 230112-PAHs-025.D



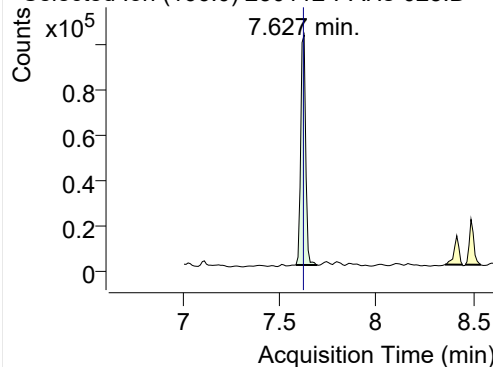
176.0, 174.0, 88.0



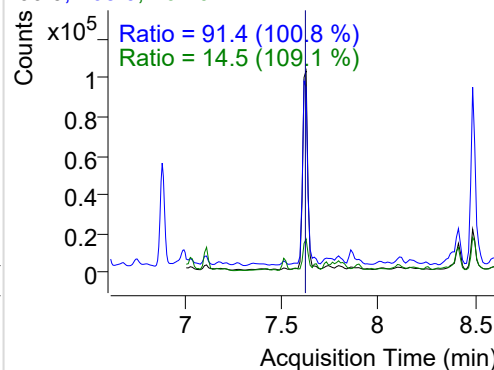
+ SIM (7.533-7.637 min, 10 scans) (**) 230112

**Fluorene**

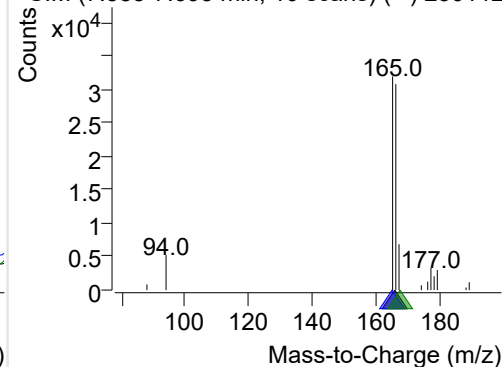
+ Selected Ion (166.0) 230112-PAHs-025.D



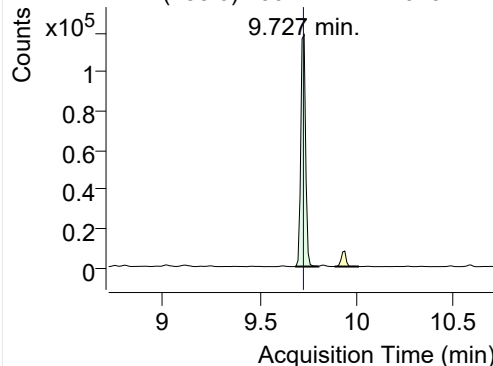
166.0, 165.0, 167.0



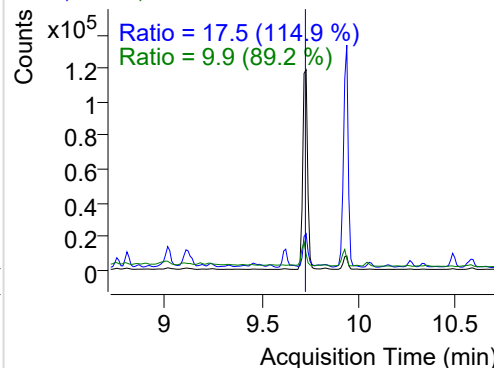
+ SIM (7.585-7.695 min, 10 scans) (**) 230112

**IS-D10-Phenanthrene**

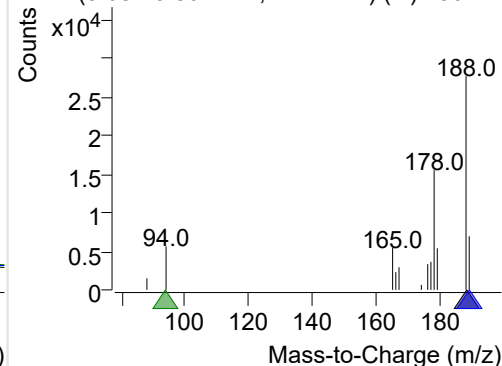
+ Selected Ion (188.0) 230112-PAHs-025.D



188.0, 189.0, 94.0

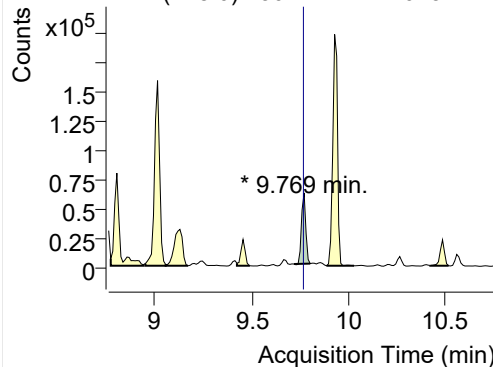


+ SIM (9.681-9.801 min, 12 scans) (**) 230112

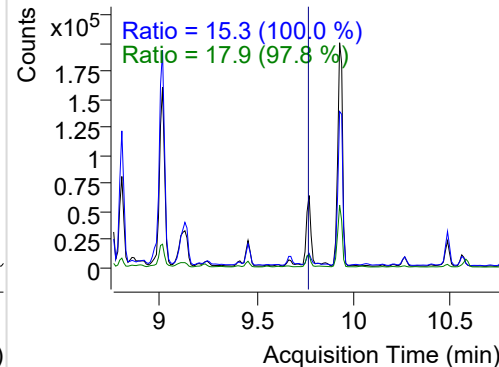


Phenanthrene

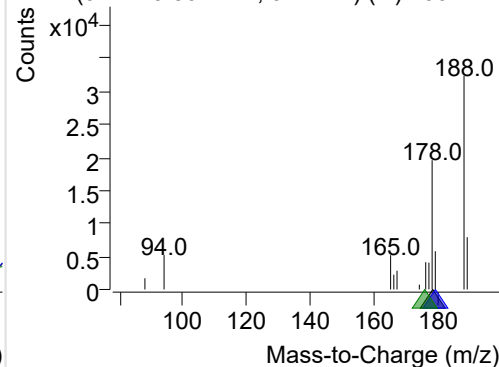
+ Selected Ion (178.0) 230112-PAHs-025.D



178.0, 179.0, 176.0

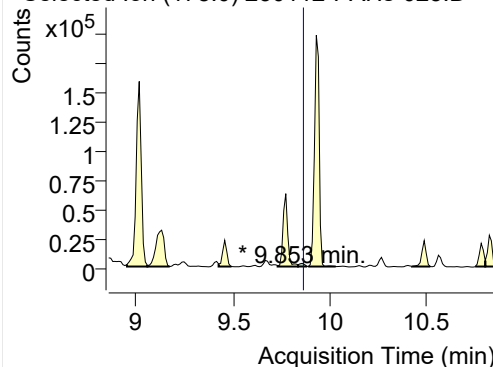


+ SIM (9.717-9.801 min, 9 scans) (**) 230112-I

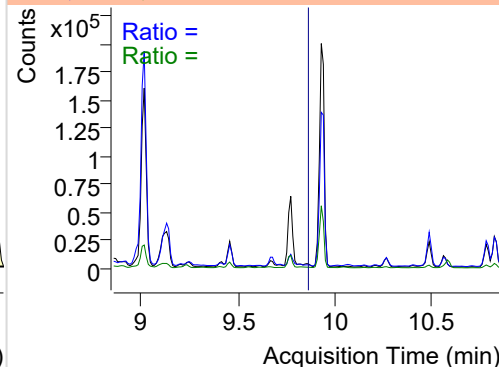


Anthracene

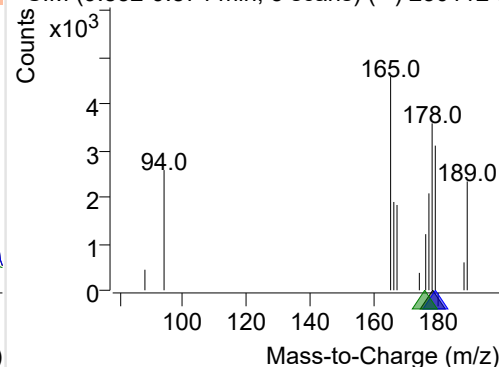
+ Selected Ion (178.0) 230112-PAHs-025.D



178.0, 179.0, 176.0

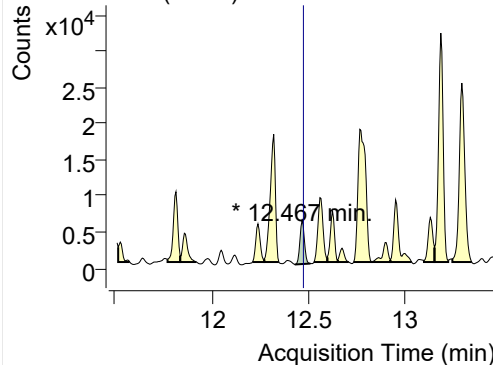


+ SIM (9.832-9.874 min, 5 scans) (**) 230112-I

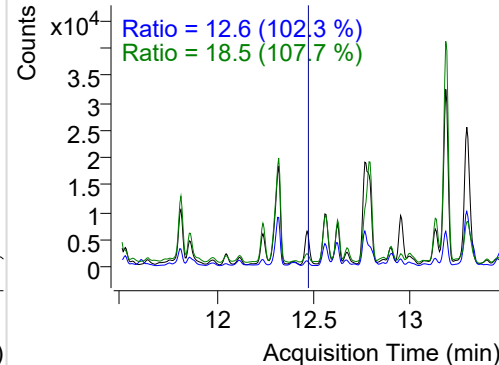


Fluoranthene

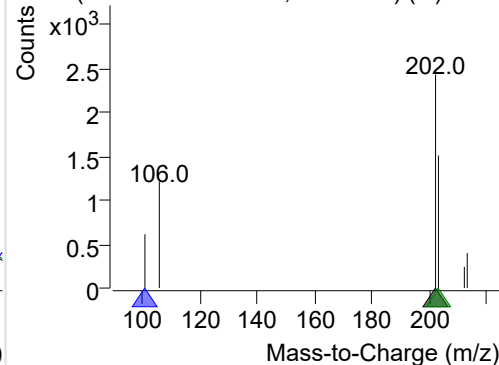
+ Selected Ion (202.0) 230112-PAHs-025.D



202.0, 101.0, 203.0

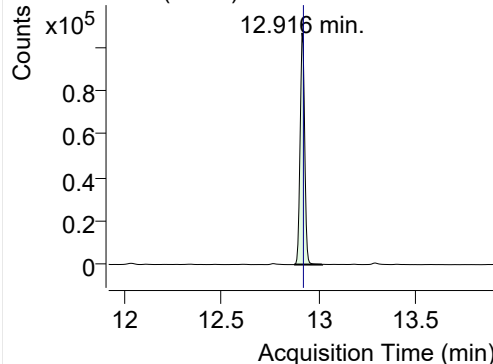


+ SIM (12.429-12.510 min, 16 scans) (**) 2301

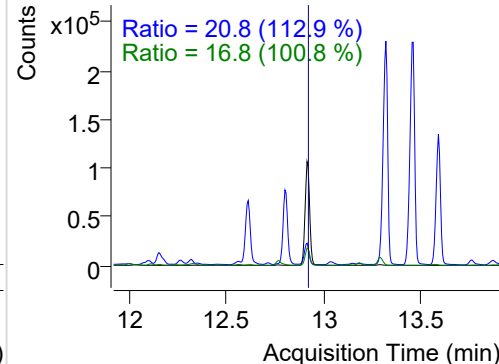


LSS-D10-Pyrene

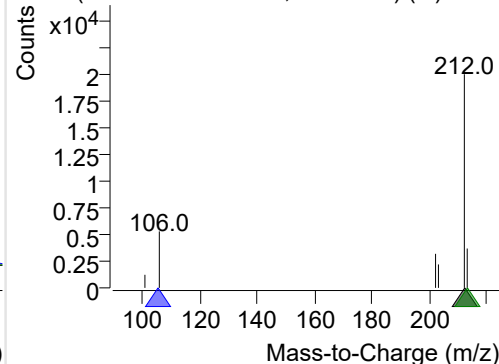
+ Selected Ion (212.0) 230112-PAHs-025.D



212.0, 106.0, 213.0

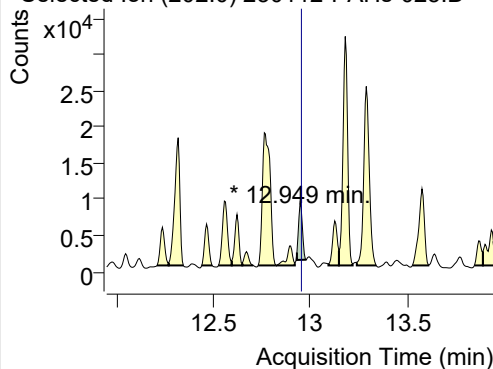


+ SIM (12.875-13.019 min, 27 scans) (**) 2301

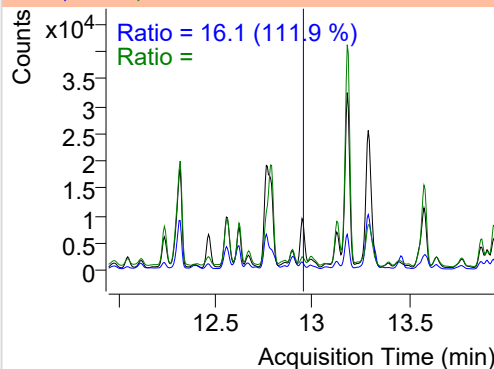


Pyrene

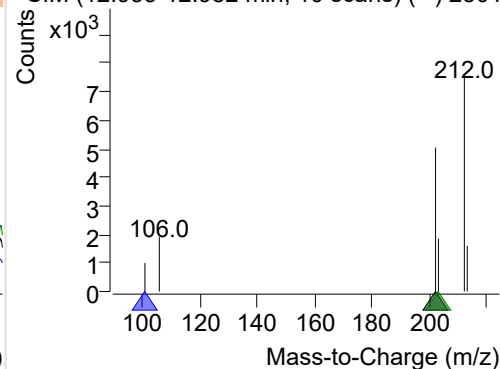
+ Selected Ion (202.0) 230112-PAHs-025.D



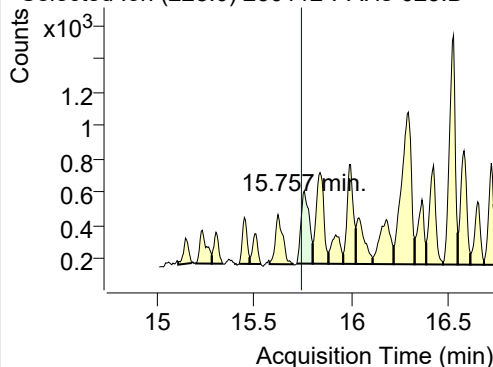
202.0, 101.0, 203.0



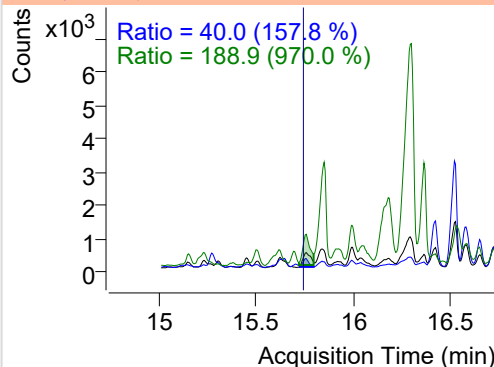
+ SIM (12.933-12.982 min, 10 scans) (**) 2301

**Benz(a)anthracene**

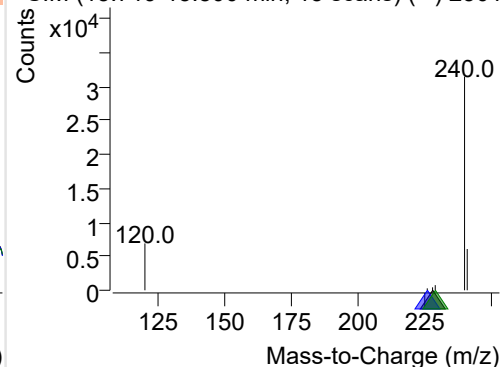
+ Selected Ion (228.0) 230112-PAHs-025.D



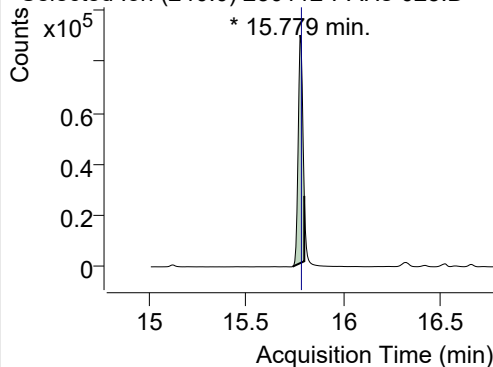
228.0, 226.0, 229.0



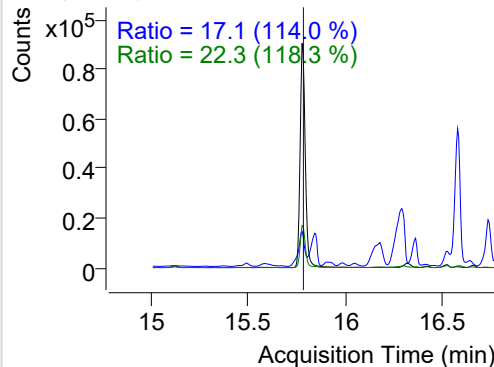
+ SIM (15.719-15.800 min, 15 scans) (**) 2301

**IS-D12-Chrysene**

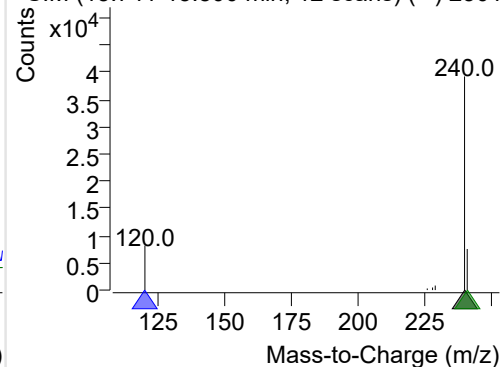
+ Selected Ion (240.0) 230112-PAHs-025.D



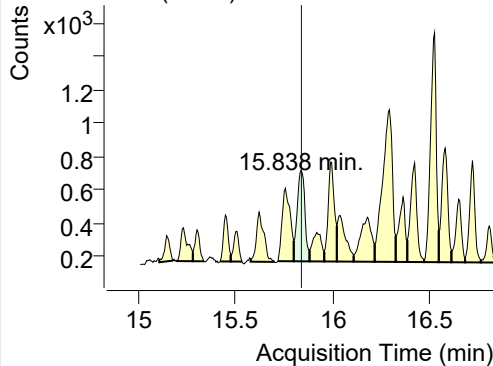
240.0, 120.0, 241.0



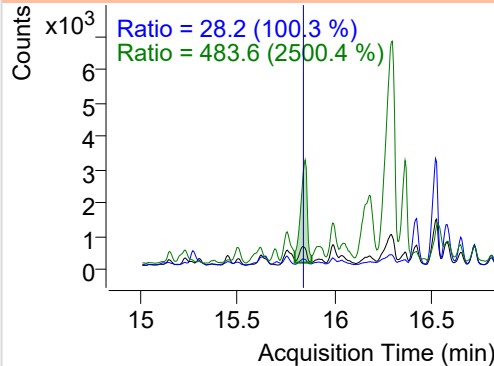
+ SIM (15.741-15.800 min, 12 scans) (**) 2301

**Chrysene**

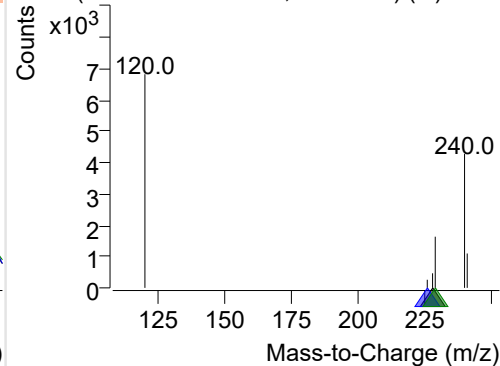
+ Selected Ion (228.0) 230112-PAHs-025.D



228.0, 226.0, 229.0



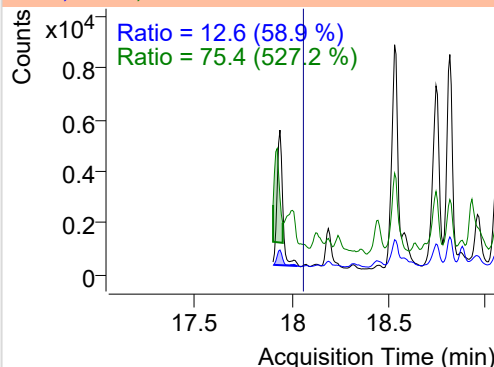
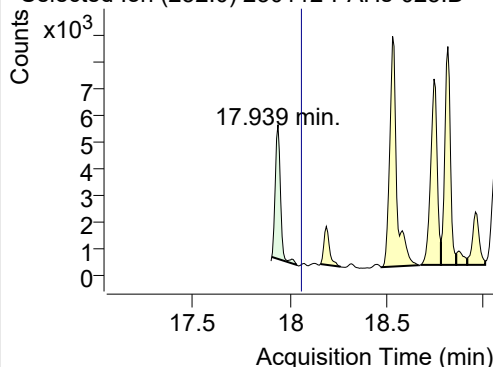
+ SIM (15.800-15.882 min, 16 scans) (**) 2301



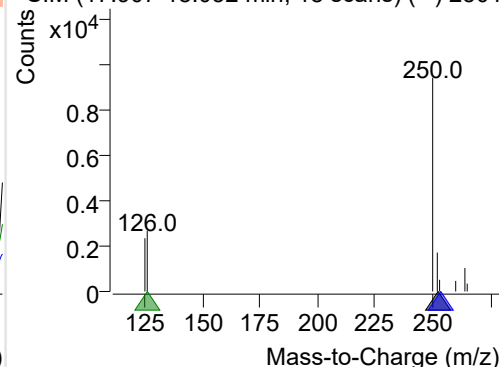
Benzo(b)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-025.D

252.0, 253.0, 126.0

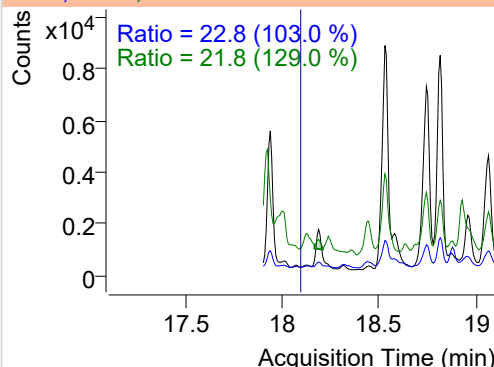
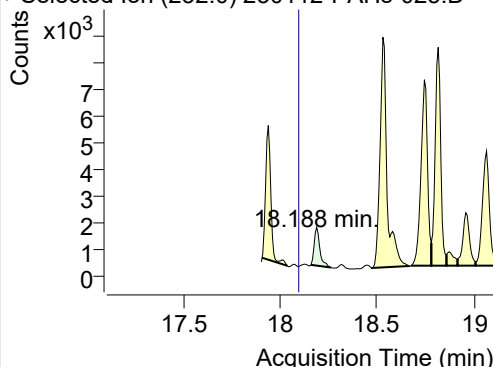


+ SIM (17.907-18.032 min, 18 scans) (**) 2301

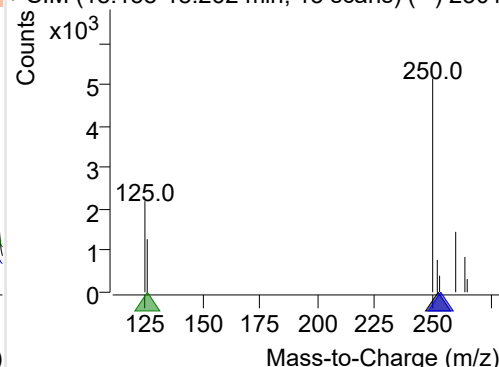
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-025.D

252.0, 253.0, 126.0

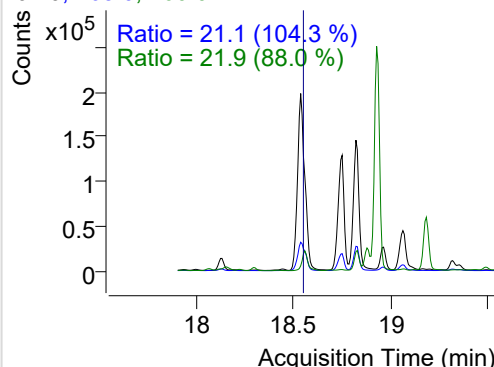
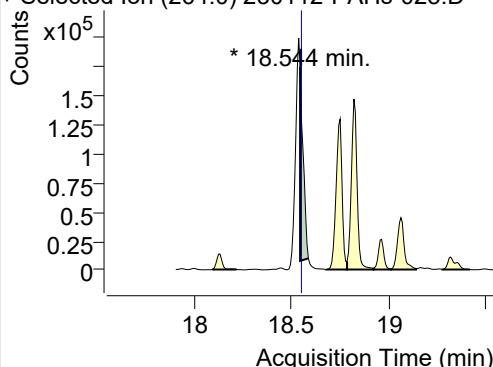


+ SIM (18.158-18.262 min, 15 scans) (**) 2301

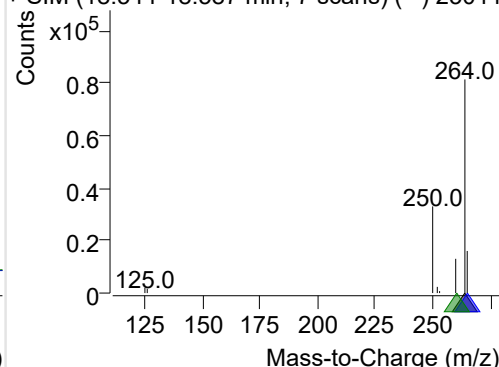
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-025.D

264.0, 265.0, 260.0

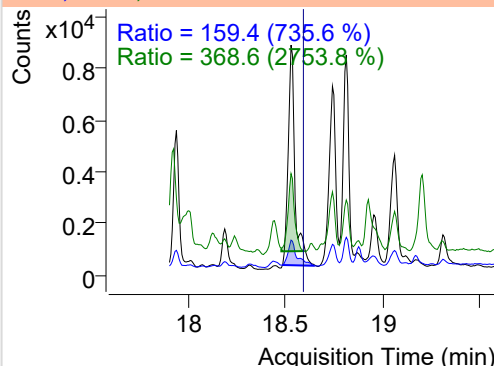
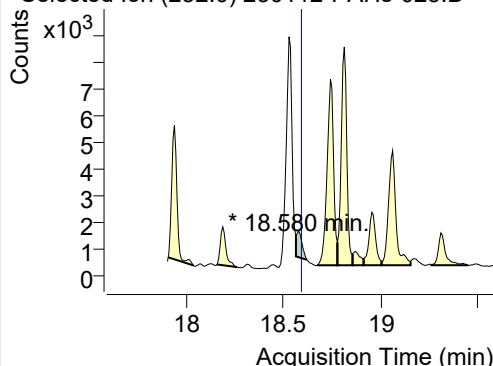


+ SIM (18.544-18.587 min, 7 scans) (**) 23011

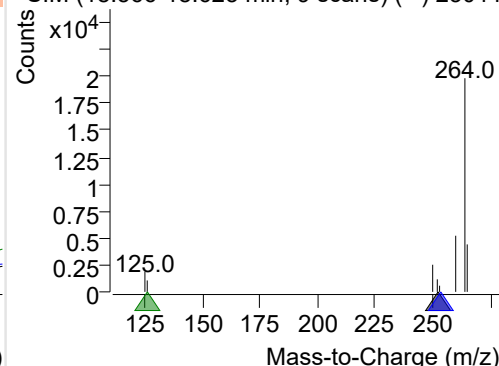
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-025.D

252.0, 253.0, 126.0



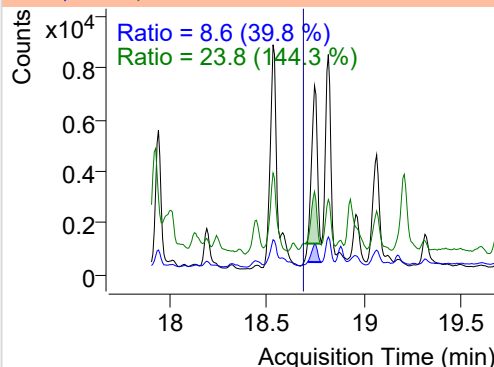
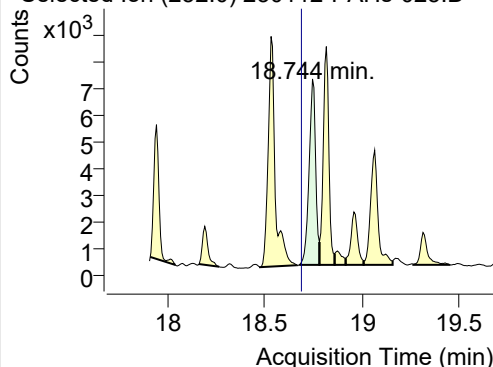
+ SIM (18.566-18.623 min, 9 scans) (**) 23011



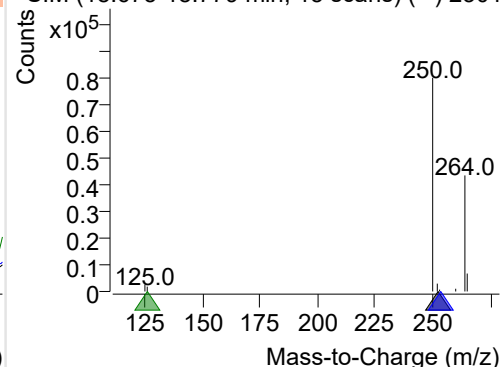
Benzo(a)pyrene

+ Selected Ion (252.0) 230112-PAHs-025.D

252.0, 253.0, 126.0

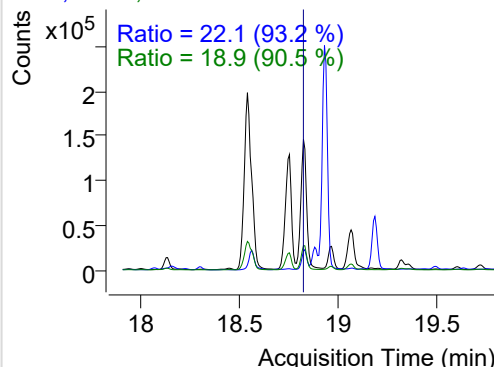
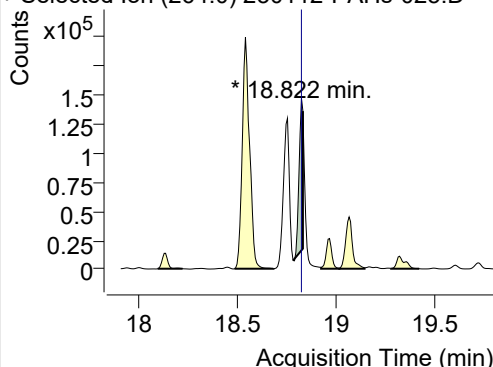


+ SIM (18.675-18.779 min, 15 scans) (**) 2301

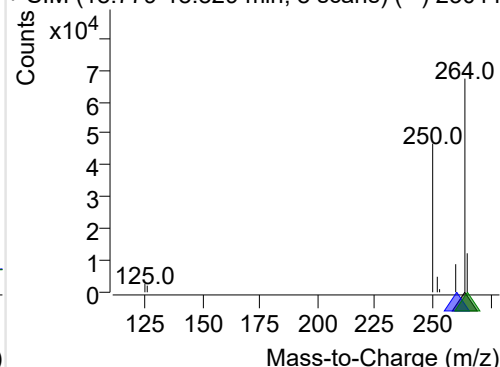
**IS-D12-Perylene**

+ Selected Ion (264.0) 230112-PAHs-025.D

264.0, 260.0, 265.0

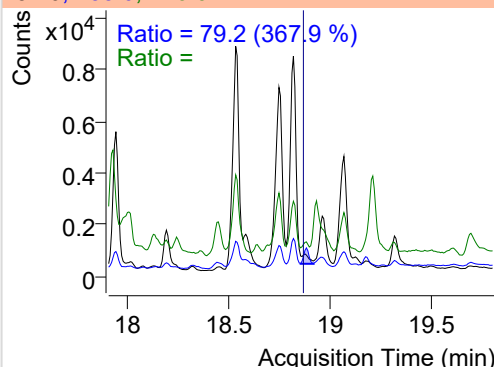
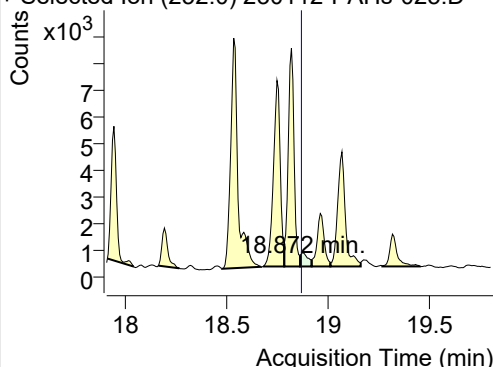


+ SIM (18.779-18.829 min, 8 scans) (**) 23011

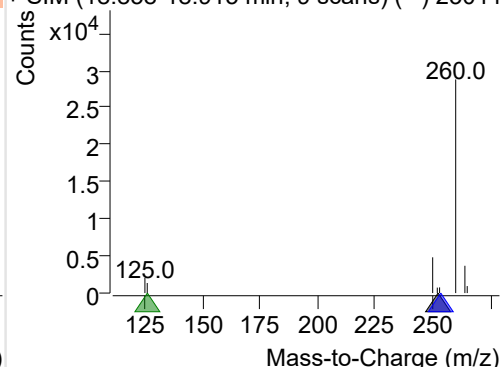
**Perylene**

+ Selected Ion (252.0) 230112-PAHs-025.D

252.0, 253.0, 126.0

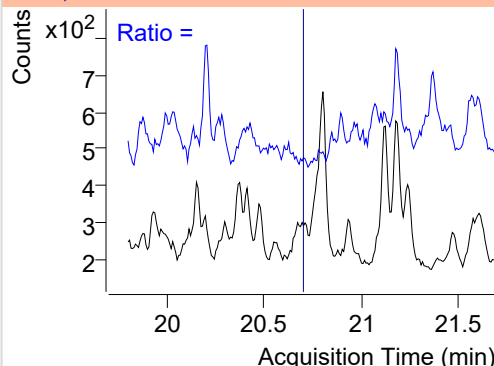
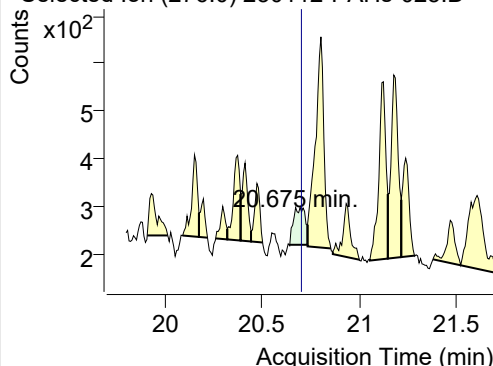


+ SIM (18.858-18.915 min, 9 scans) (**) 23011

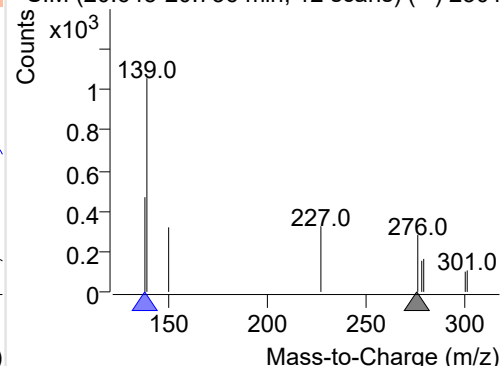
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 230112-PAHs-025.D

276.0, 138.0



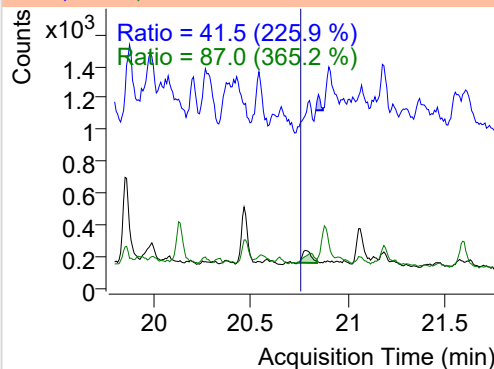
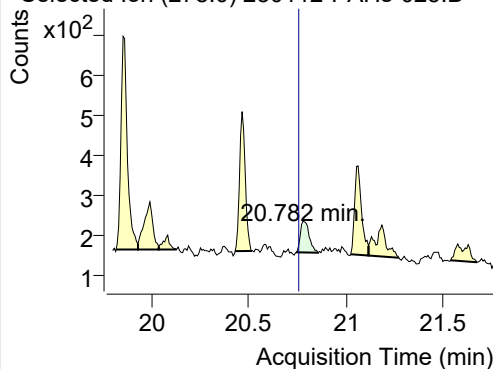
+ SIM (20.645-20.736 min, 12 scans) (**) 2301



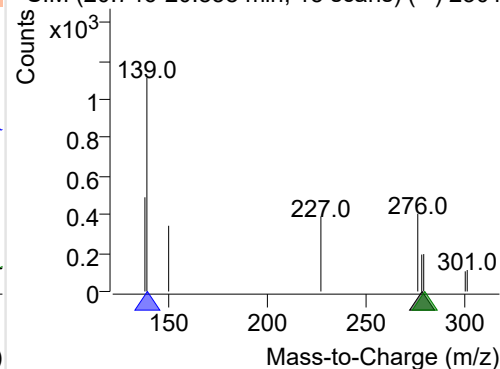
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-025.D

278.0, 139.0, 279.0

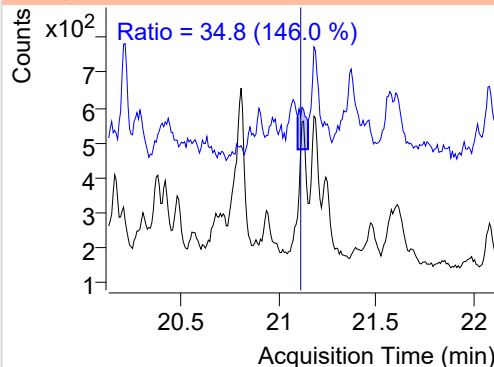
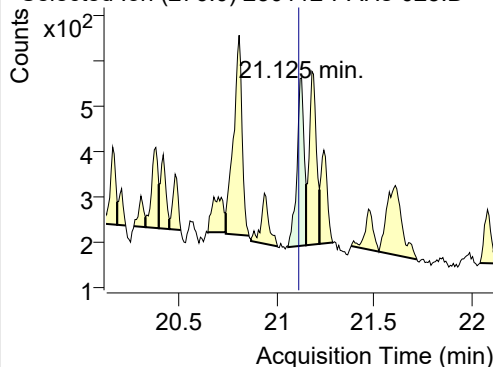


+ SIM (20.746-20.858 min, 15 scans) (**) 2301

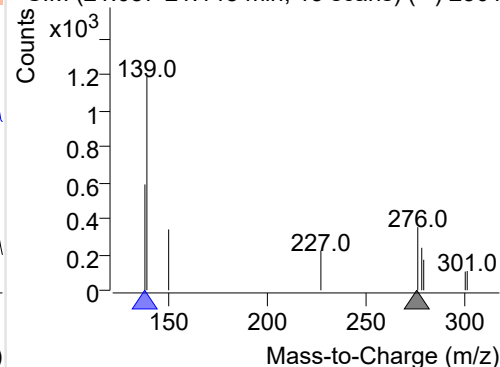
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 230112-PAHs-025.D

276.0, 138.0

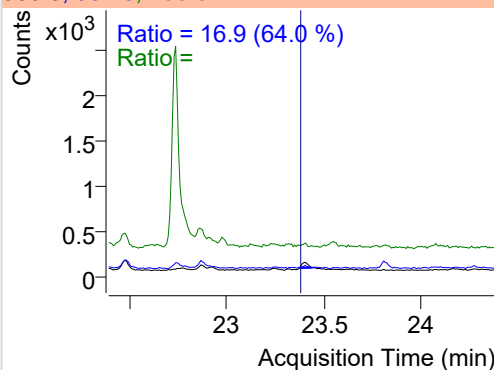
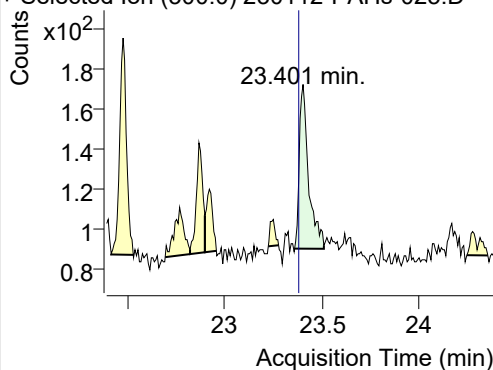


+ SIM (21.057-21.148 min, 13 scans) (**) 2301

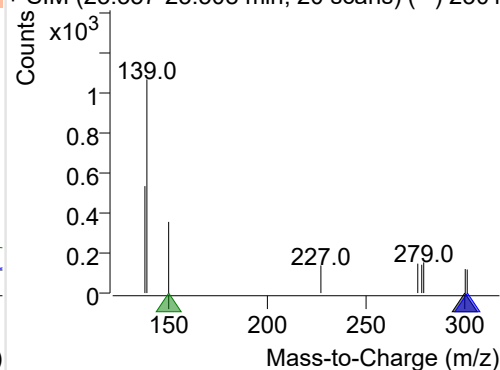
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-025.D

300.0, 301.0, 150.0



+ SIM (23.357-23.508 min, 20 scans) (**) 2301



Quantitative Analysis Sample Based Report

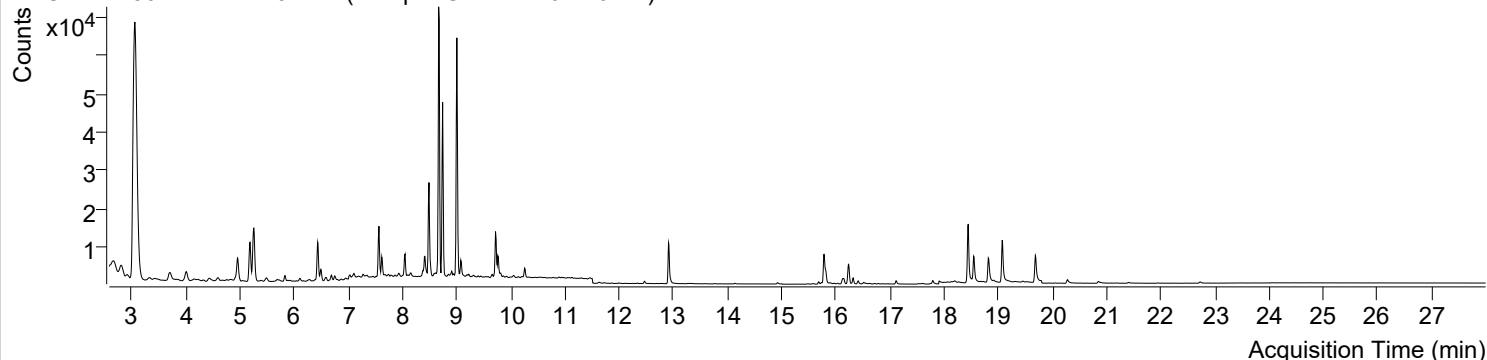


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 1:14:30	Data File	230112-PAHs-027.D
Type	Sample	Name	Sample-Gas-221201-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

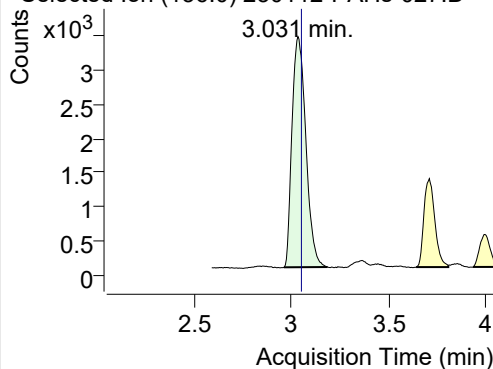
+ TIC SIM 230112-PAHs-027.D (Sample-Gas-221201-10DIL)



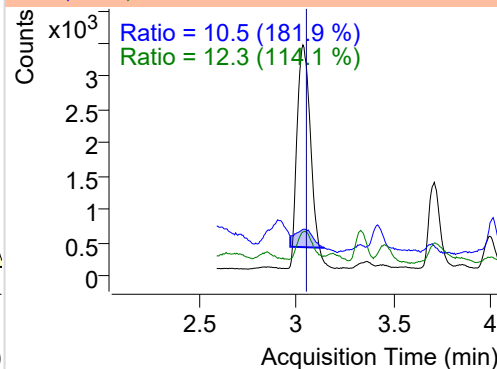
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	16613	3355.43	ND ng/ml	12.3
Naphthalene	3.058	128.0	255711	51854.98	ND ng/ml	11.8
Acenaphthylene	6.102	152.0	1173	539.84	ND ng/ml	50.0
IS-D10-Acenaphthene	6.433	164.0	10140	4837.64	ND ng/ml	93.0
Acenaphthene	6.492	154.0	1610	769.72	ND ng/ml	111.4
LSS-D10-Fluorene	7.564	176.0	10566	6092.92	ND ng/ml	90.9
Fluorene	7.616	166.0	4431	2340.32	ND ng/ml	106.7
IS-D10-Phenanthrene	9.717	188.0	17390	9414.01	ND ng/ml	17.2
Phenanthrene	9.759	178.0	6604	3294.85	ND ng/ml	20.8
Anthracene	9.759	178.0	6604	3294.85	ND ng/ml	20.8
Fluoranthene	12.466	202.0	797	428.17	ND ng/ml	26.4
LSS-D10-Pyrene	12.911	212.0	14637	7920.58	ND ng/ml	17.5
Pyrene	12.949	202.0	648	341.14	ND ng/ml	23.6
Benz(a)anthracene	15.740	228.0	24	21.00	ND ng/ml	2408.0
IS-D12-Chrysene	15.784	240.0	12767	5724.75	ND ng/ml	19.4
Chrysene	15.822	228.0	137	62.55	ND ng/ml	55.6
Benzo(b)fluoranthene	18.188	252.0	106	23.89	ND ng/ml	202.1
Benzo(k)fluoranthene	18.188	252.0	106	23.89	ND ng/ml	202.1
SS-D12-Benzo(e)pyrene	18.544	264.0	9934	4470.20	ND ng/ml	24.6
Benzo(e)pyrene	18.722	252.0	85	30.16	ND ng/ml	
Benzo(a)pyrene	18.722	252.0	85	30.16	ND ng/ml	
IS-D12-Perylene	18.815	264.0	10184	4194.54	ND ng/ml	22.8
Perylene	18.808	252.0	105	27.24	ND ng/ml	
Indeno(1,2,3-c,d)pytene	20.759	276.0	48	8.64	ND ng/ml	936.1
Dibenz(a,h)anthracene	20.858	278.0	47	13.42	ND ng/ml	101.4
Benzo(g,h,i)perylene	21.148	276.0	53	13.64	ND ng/ml	
Coronene	23.416	300.0	62	12.14	ND ng/ml	

IS-D8-Naphthalene

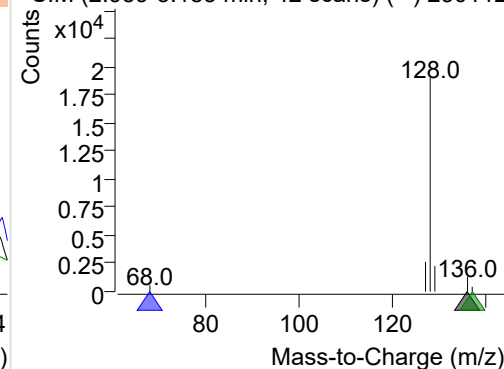
+ Selected Ion (136.0) 230112-PAHs-027.D



136.0, 68.0, 137.0

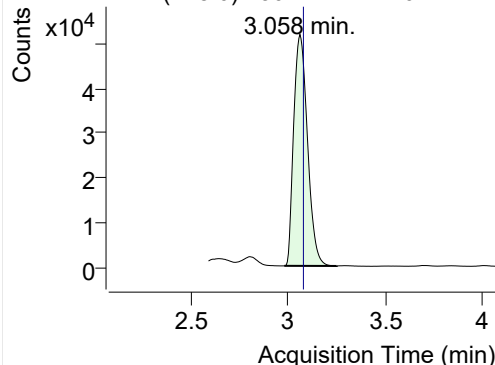


+ SIM (2.959-3.183 min, 42 scans) (**) 230112

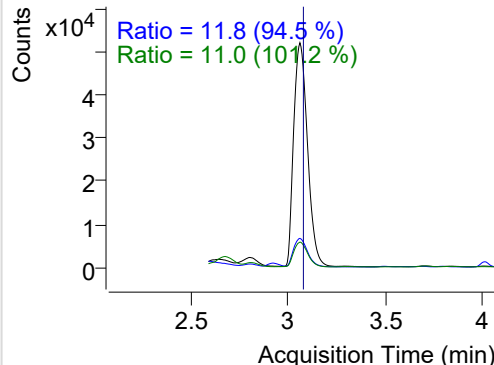


Naphthalene

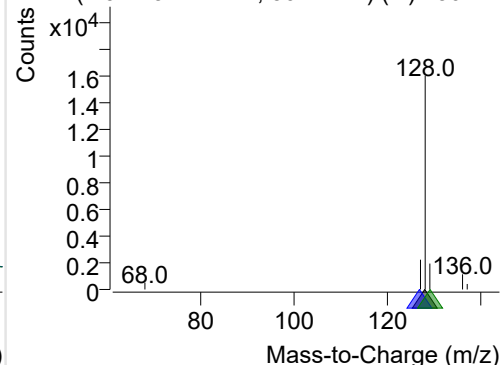
+ Selected Ion (128.0) 230112-PAHs-027.D



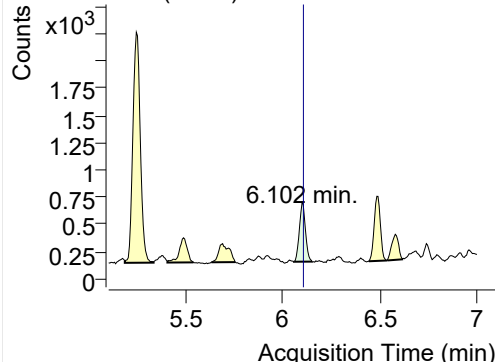
128.0, 127.0, 129.0



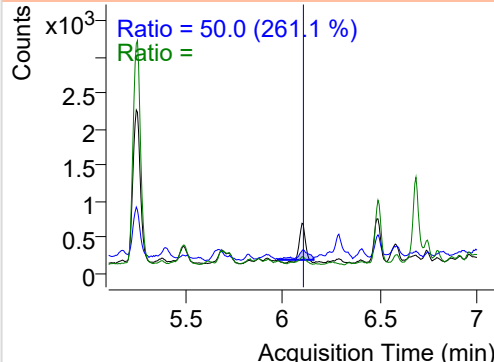
+ SIM (2.977-3.247 min, 50 scans) (**) 230112

**Acenaphthylene**

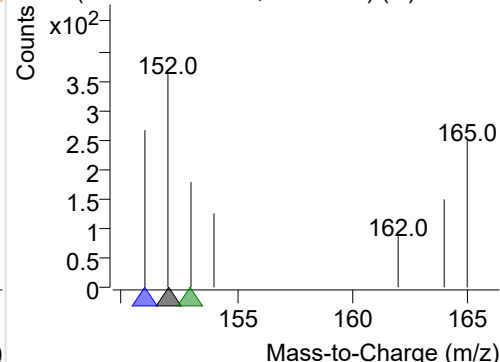
+ Selected Ion (152.0) 230112-PAHs-027.D



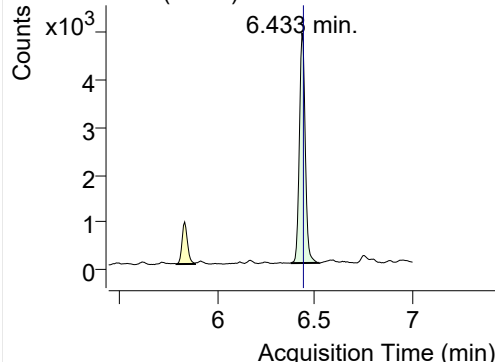
152.0, 151.0, 153.0



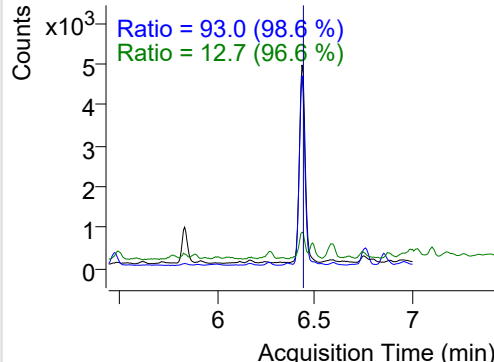
+ SIM (6.060-6.153 min, 16 scans) (**) 230112

**IS-D10-Acenaphthene**

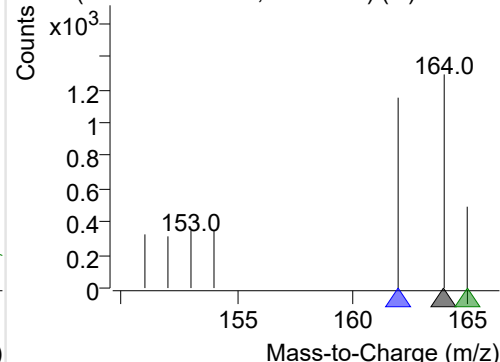
+ Selected Ion (164.0) 230112-PAHs-027.D



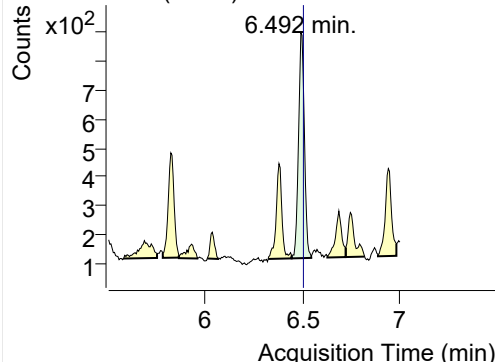
164.0, 162.0, 165.0



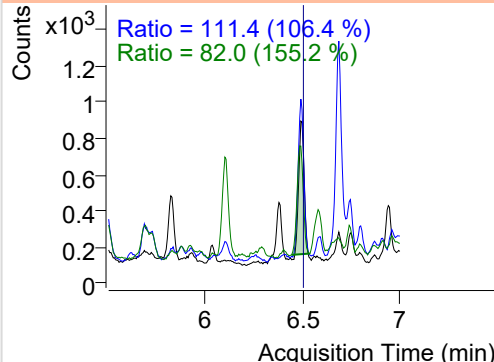
+ SIM (6.380-6.522 min, 25 scans) (**) 230112

**Acenaphthene**

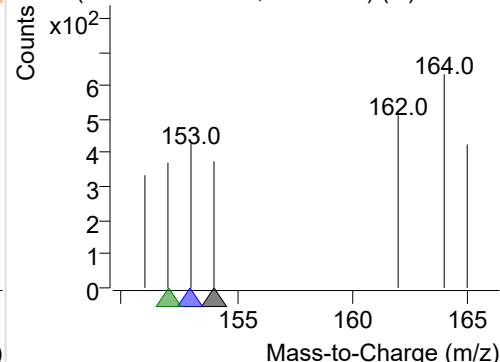
+ Selected Ion (154.0) 230112-PAHs-027.D



154.0, 153.0, 152.0

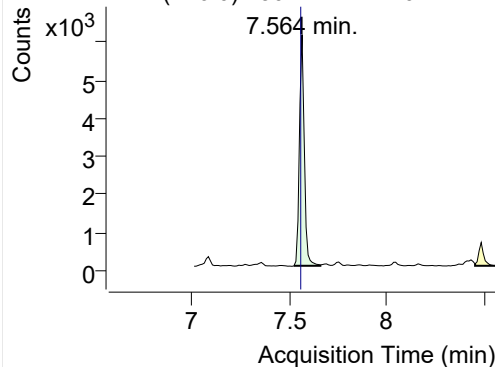


+ SIM (6.445-6.546 min, 18 scans) (**) 230112

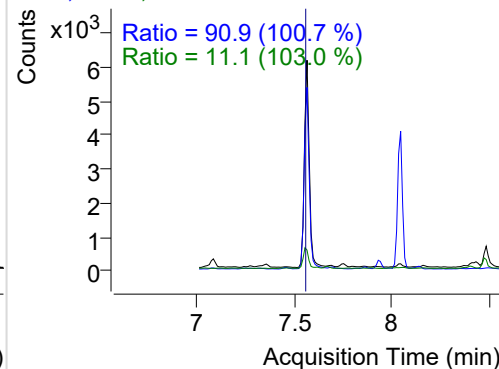


LSS-D10-Fluorene

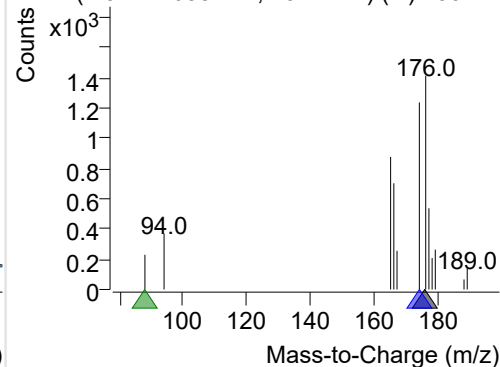
+ Selected Ion (176.0) 230112-PAHs-027.D



176.0, 174.0, 88.0

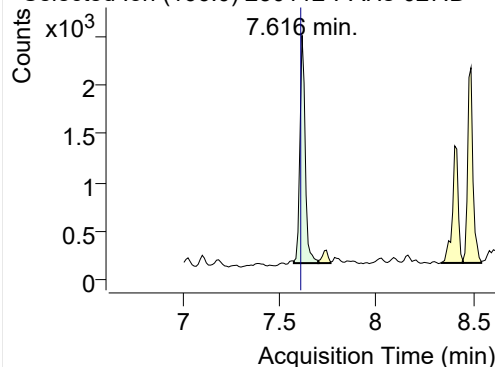


+ SIM (7.522-7.658 min, 13 scans) (**) 230112

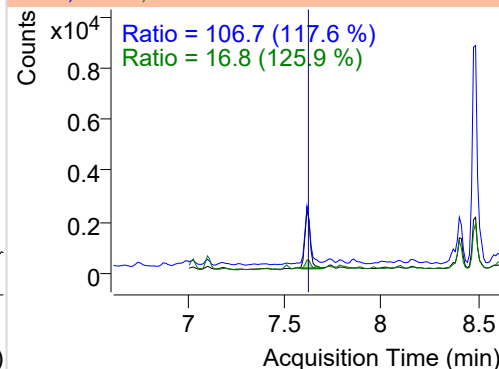


Fluorene

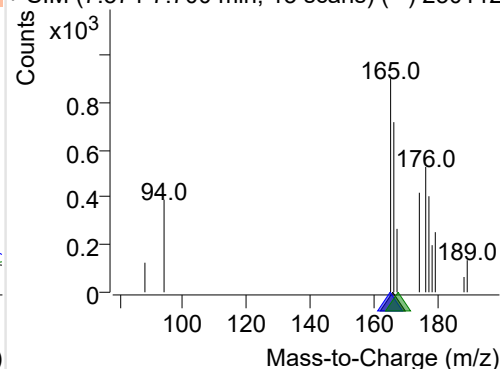
+ Selected Ion (166.0) 230112-PAHs-027.D



166.0, 165.0, 167.0

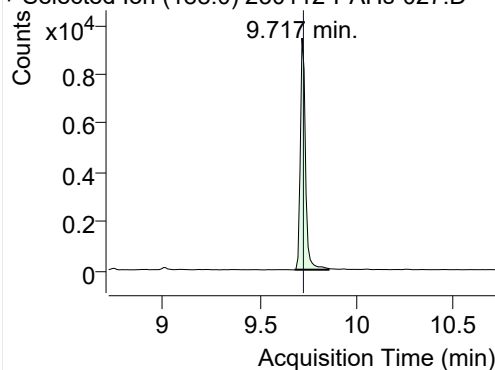


+ SIM (7.574-7.700 min, 13 scans) (**) 230112

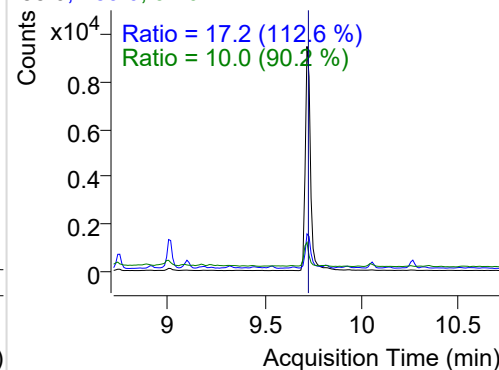


IS-D10-Phenanthrene

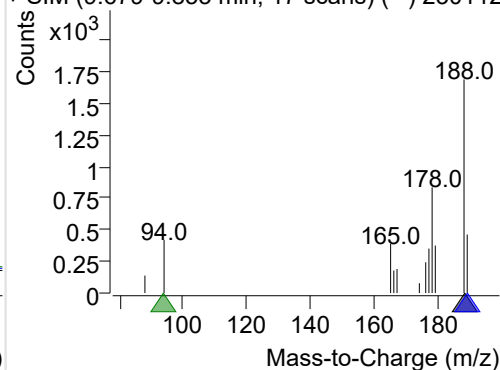
+ Selected Ion (188.0) 230112-PAHs-027.D



188.0, 189.0, 94.0

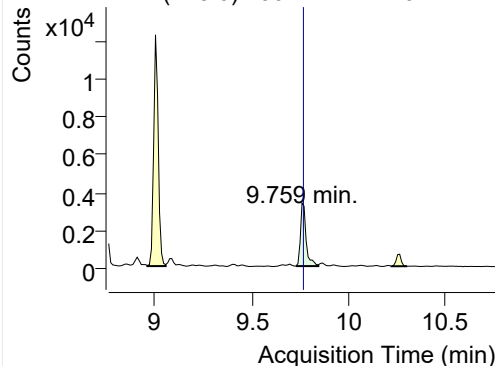


+ SIM (9.679-9.853 min, 17 scans) (**) 230112

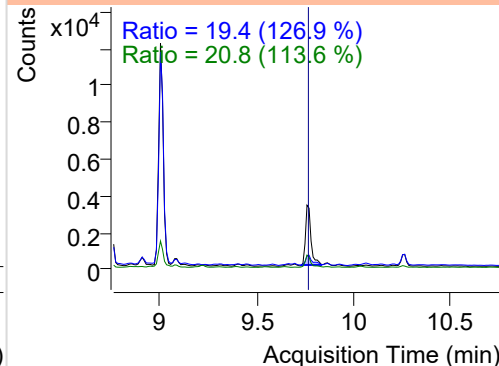


Phenanthrene

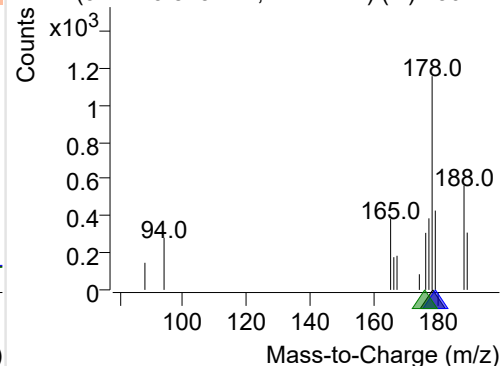
+ Selected Ion (178.0) 230112-PAHs-027.D



178.0, 179.0, 176.0

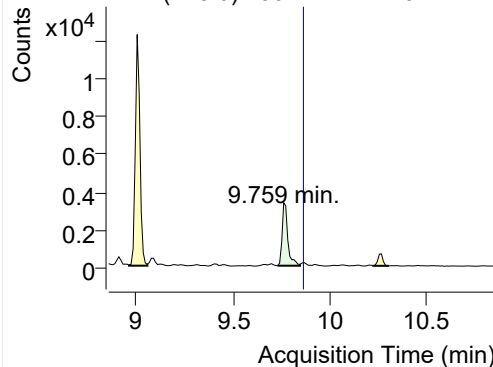


+ SIM (9.727-9.843 min, 11 scans) (**) 230112

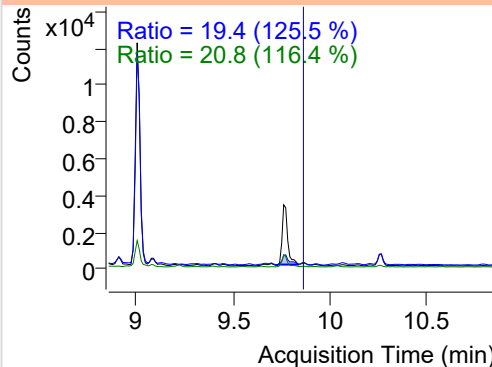


Anthracene

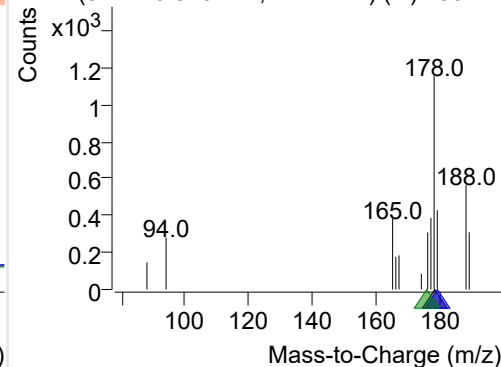
+ Selected Ion (178.0) 230112-PAHs-027.D



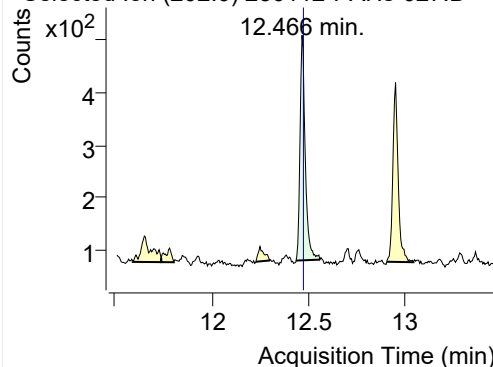
178.0, 179.0, 176.0



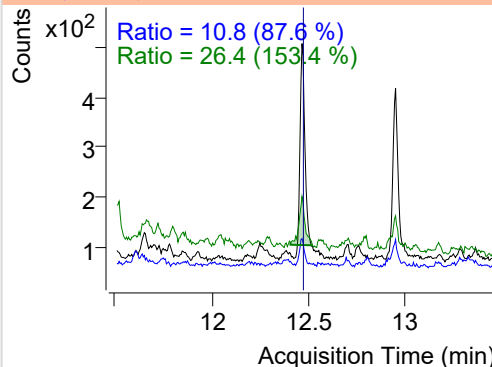
+ SIM (9.727-9.843 min, 11 scans) (**) 230112

**Fluoranthene**

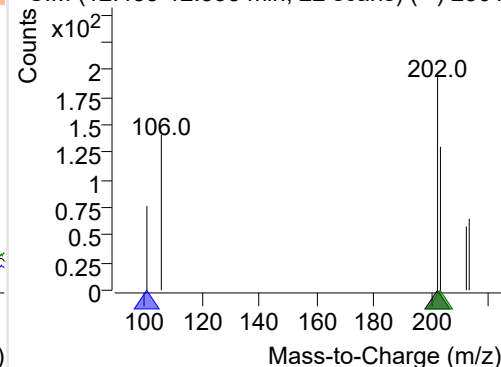
+ Selected Ion (202.0) 230112-PAHs-027.D



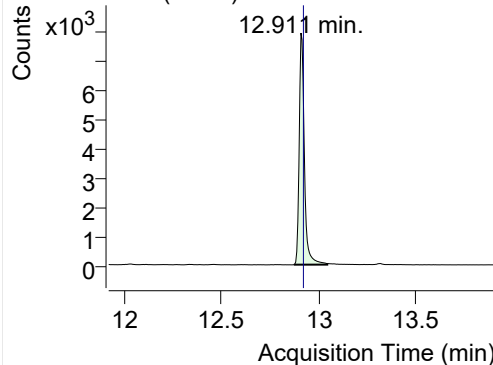
202.0, 101.0, 203.0



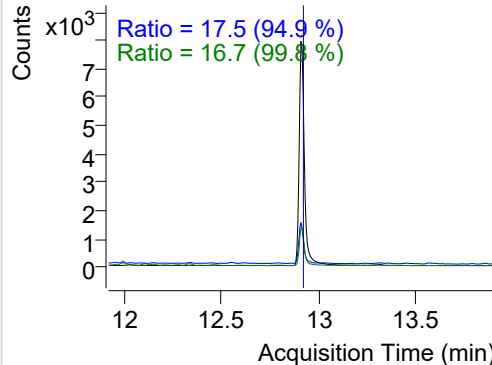
+ SIM (12.435-12.558 min, 22 scans) (**) 2301

**LSS-D10-Pyrene**

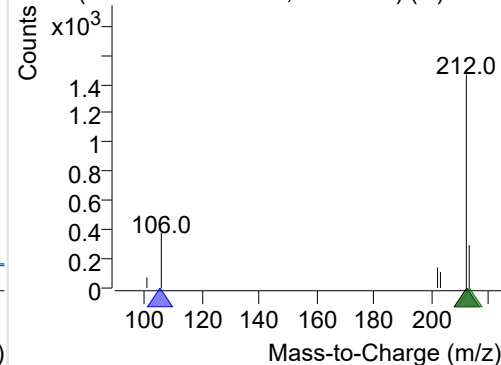
+ Selected Ion (212.0) 230112-PAHs-027.D



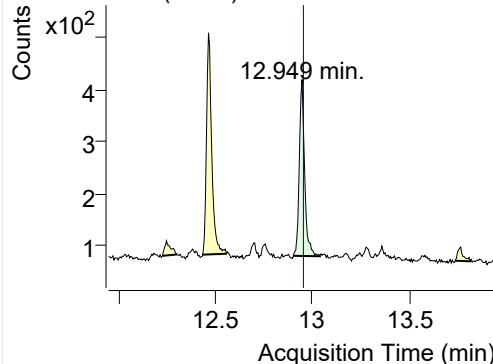
212.0, 106.0, 213.0



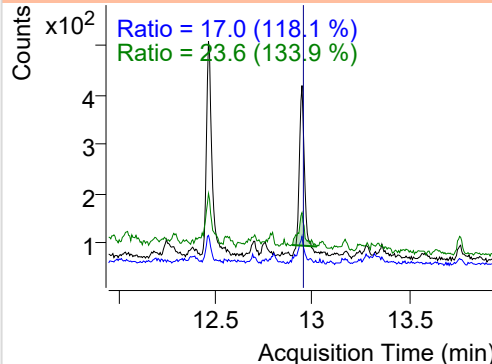
+ SIM (12.874-13.046 min, 32 scans) (**) 2301

**Pyrene**

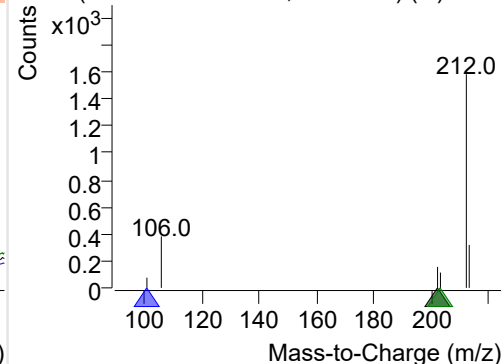
+ Selected Ion (202.0) 230112-PAHs-027.D



202.0, 101.0, 203.0



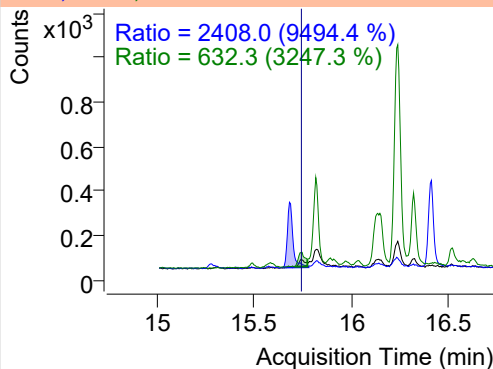
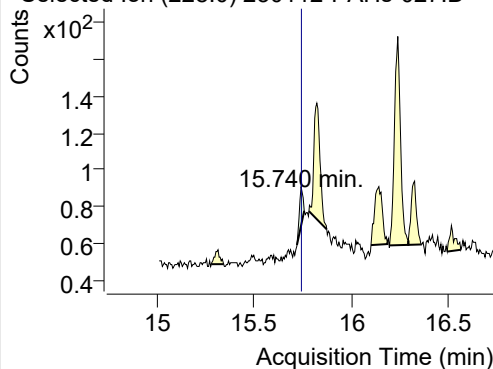
+ SIM (12.903-13.041 min, 26 scans) (**) 2301



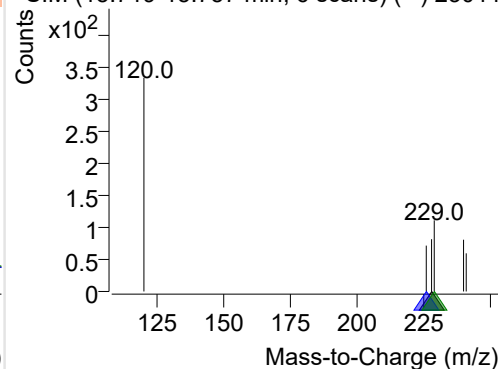
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-027.D

228.0, 226.0, 229.0

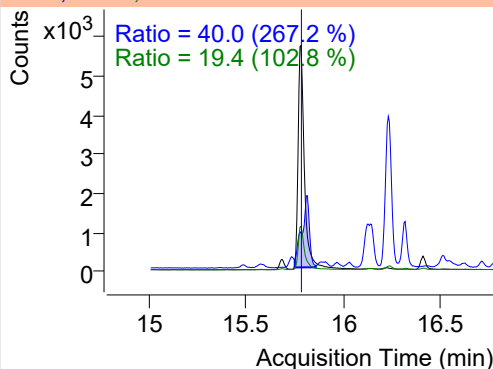
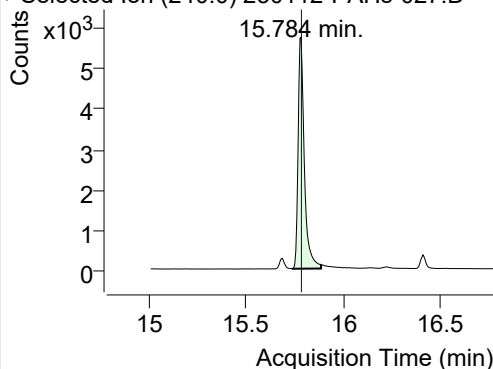


+ SIM (15.719-15.757 min, 6 scans) (**) 23011

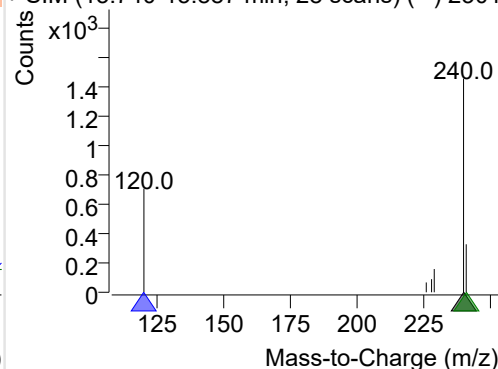
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-027.D

240.0, 120.0, 241.0

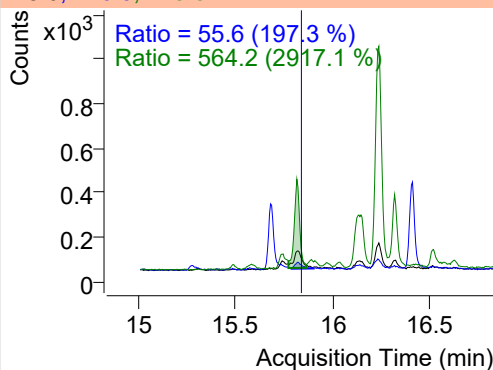
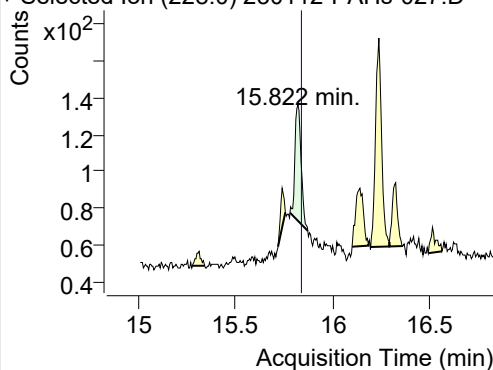


+ SIM (15.740-15.887 min, 28 scans) (**) 2301

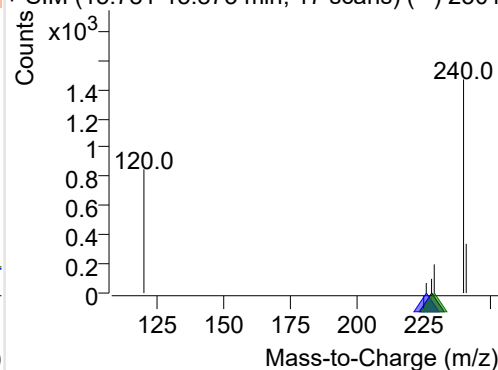
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-027.D

228.0, 226.0, 229.0

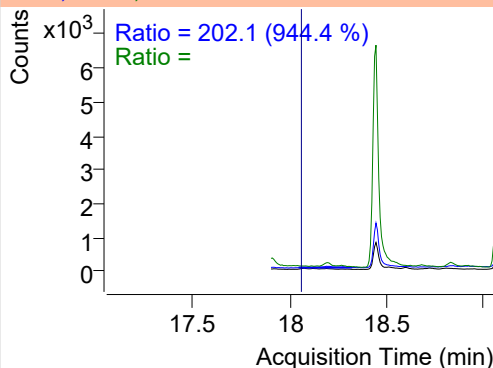
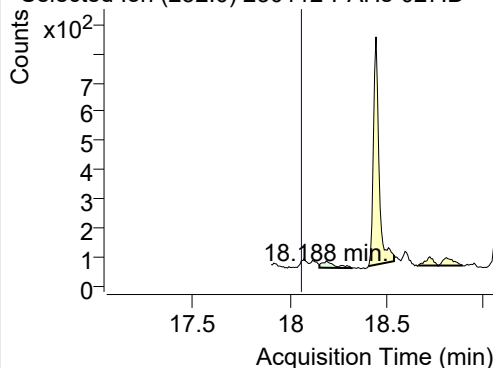


+ SIM (15.781-15.873 min, 17 scans) (**) 2301

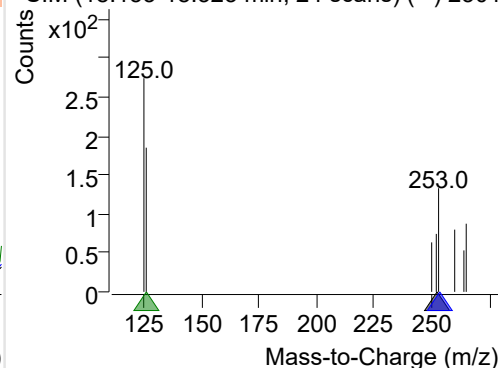
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-027.D

252.0, 253.0, 126.0



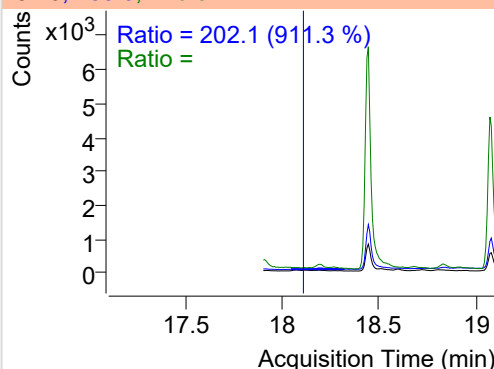
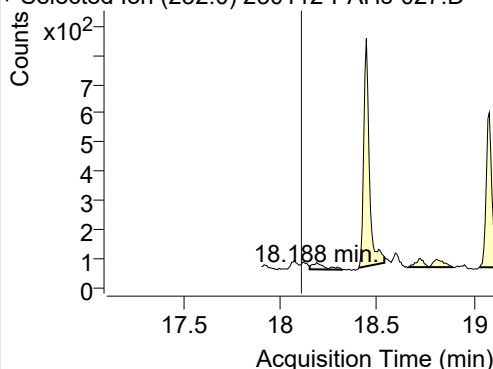
+ SIM (18.153-18.323 min, 24 scans) (**) 2301



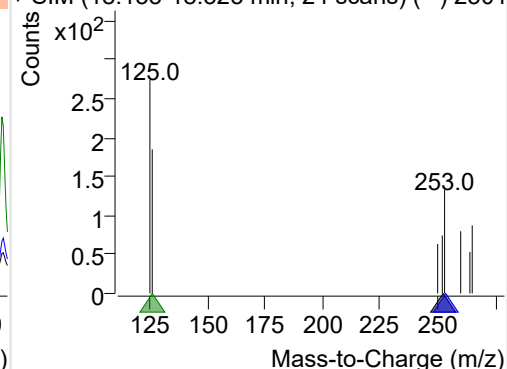
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-027.D

252.0, 253.0, 126.0

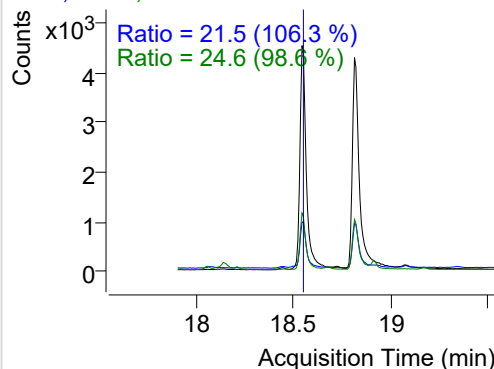
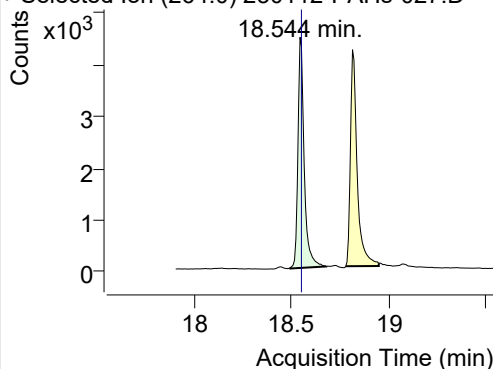


+ SIM (18.153-18.323 min, 24 scans) (**) 2301

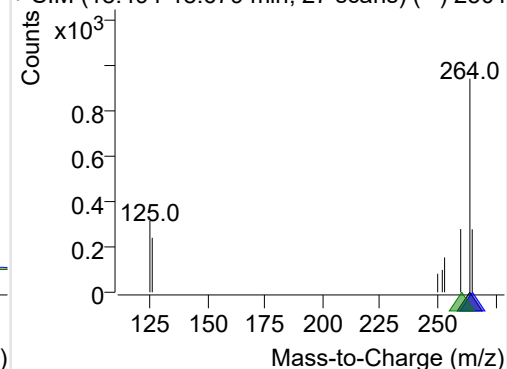
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-027.D

264.0, 265.0, 260.0

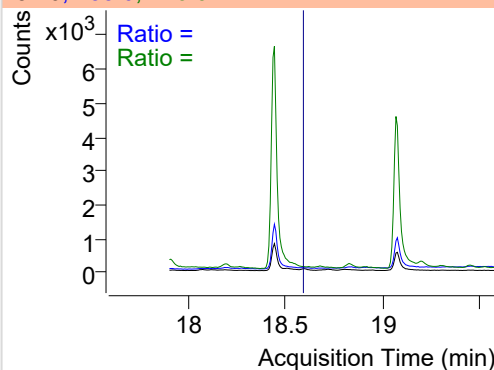
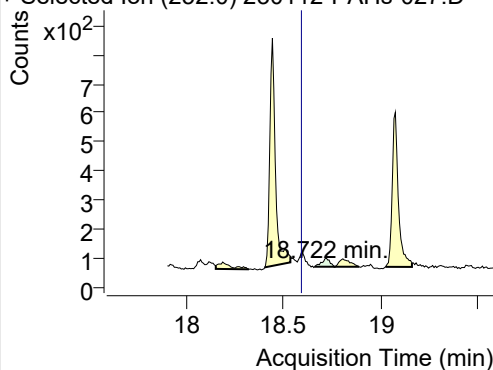


+ SIM (18.494-18.679 min, 27 scans) (**) 2301

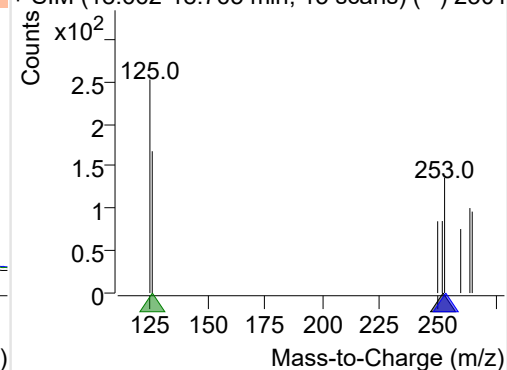
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-027.D

252.0, 253.0, 126.0

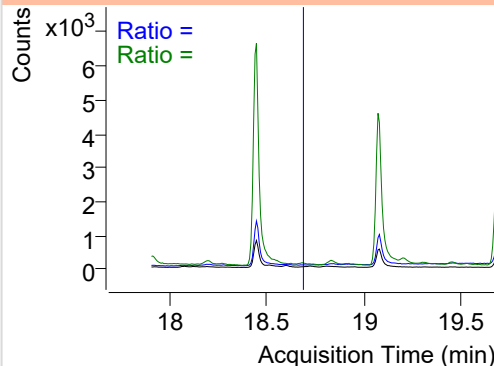
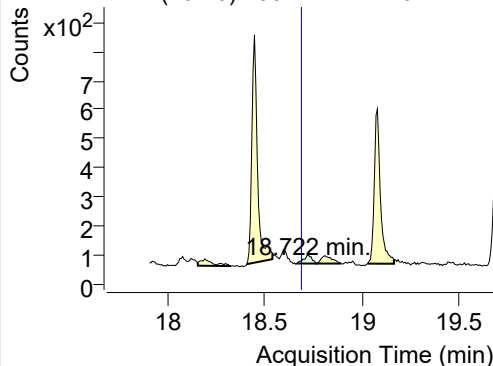


+ SIM (18.662-18.765 min, 15 scans) (**) 2301

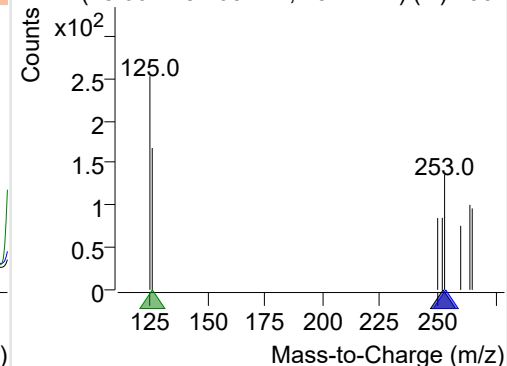
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-027.D

252.0, 253.0, 126.0

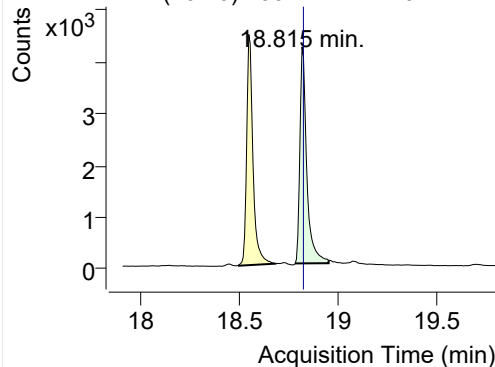


+ SIM (18.662-18.765 min, 15 scans) (**) 2301

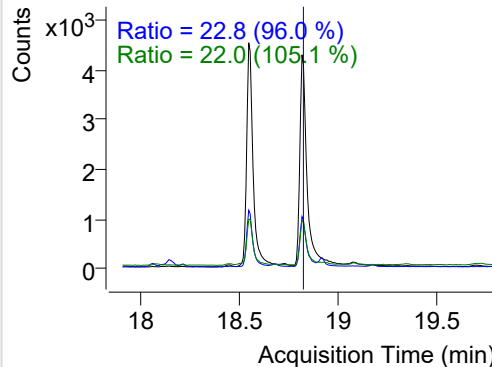


IS-D12-Perylene

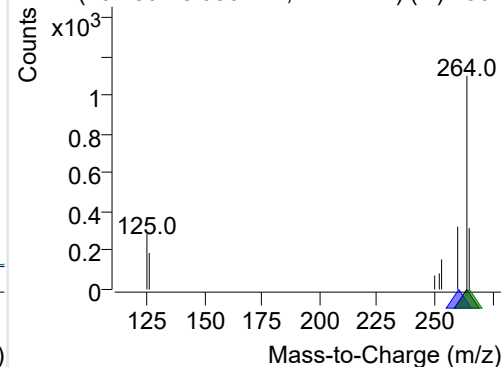
+ Selected Ion (264.0) 230112-PAHs-027.D



264.0, 260.0, 265.0

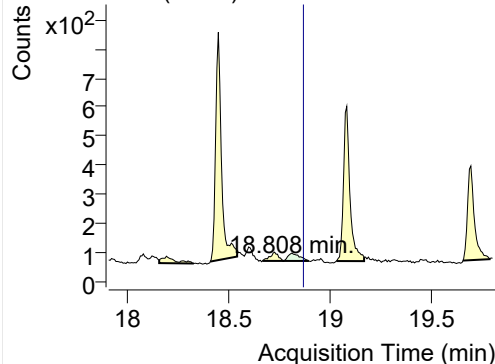


+ SIM (18.780-18.950 min, 24 scans) (**) 2301

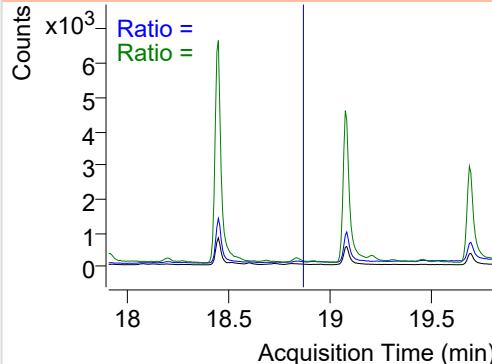


Perylene

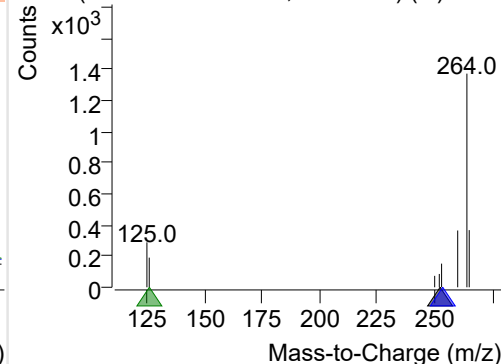
+ Selected Ion (252.0) 230112-PAHs-027.D



252.0, 253.0, 126.0

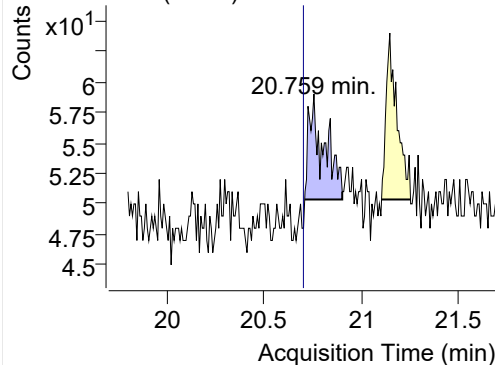


+ SIM (18.765-18.891 min, 18 scans) (**) 2301

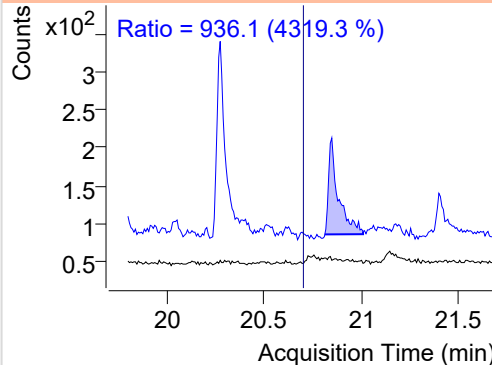


Indeno(1,2,3-c,d)pyrene

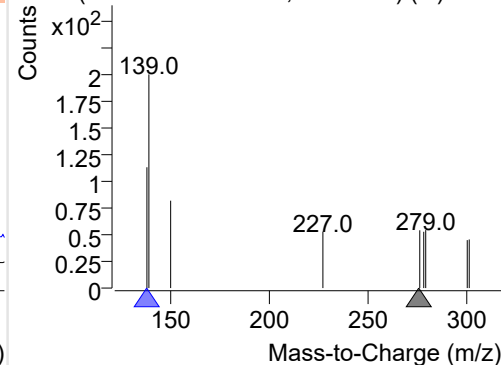
+ Selected Ion (276.0) 230112-PAHs-027.D



276.0, 138.0

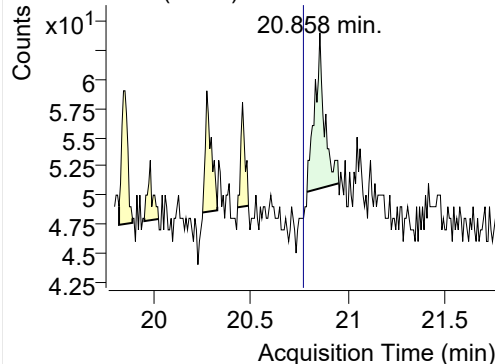


+ SIM (20.711-20.904 min, 26 scans) (**) 2301

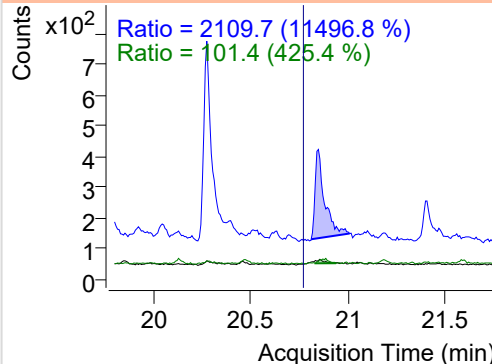


Dibenz(a,h)anthracene

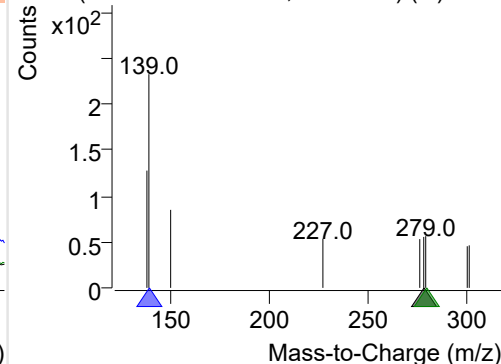
+ Selected Ion (278.0) 230112-PAHs-027.D



278.0, 139.0, 279.0



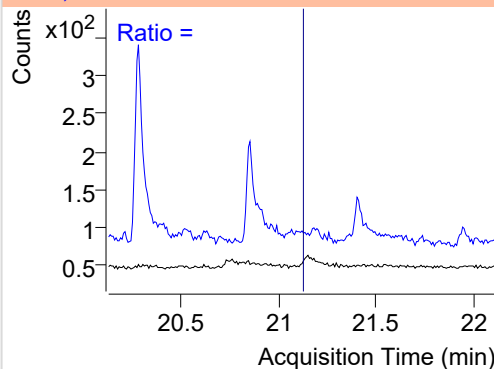
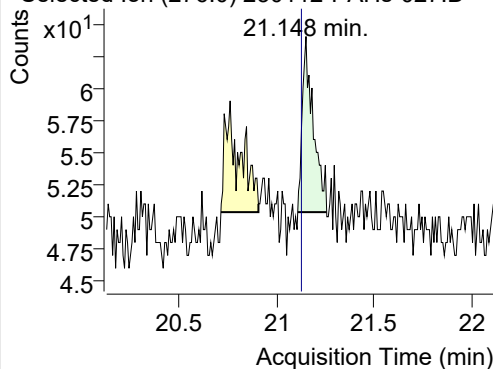
+ SIM (20.792-20.955 min, 21 scans) (**) 2301



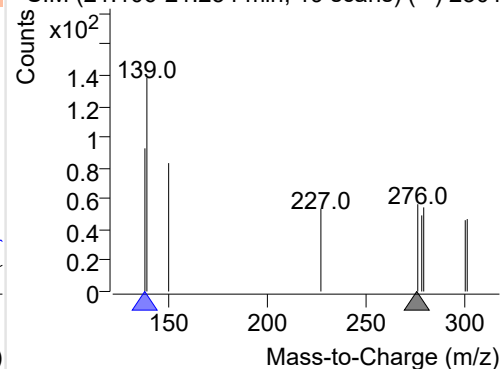
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-027.D

276.0, 138.0

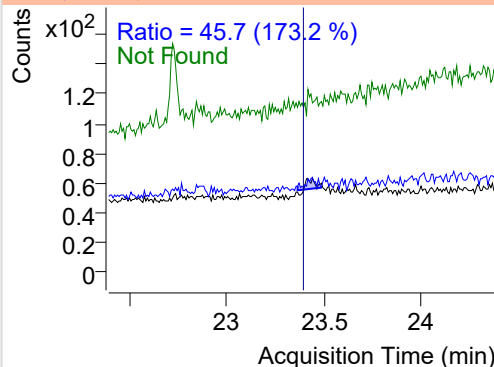
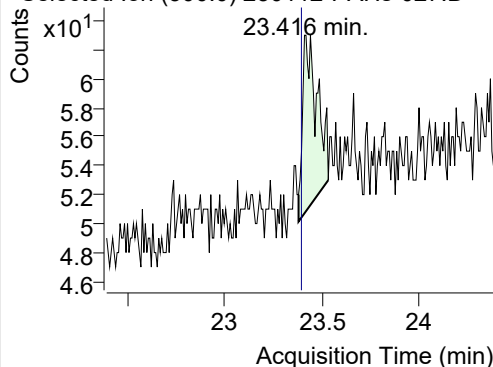


+ SIM (21.106-21.254 min, 19 scans) (**) 2301

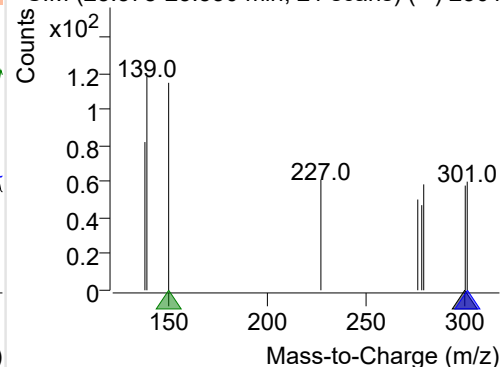
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-027.D

300.0, 301.0, 150.0



+ SIM (23.378-23.530 min, 21 scans) (**) 2301



Quantitative Analysis Sample Based Report

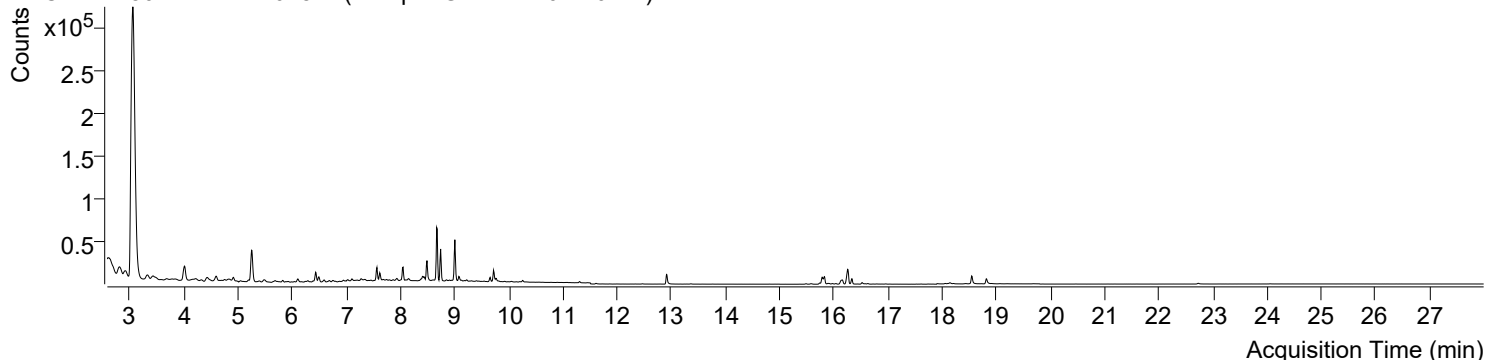


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 1:45:31	Data File	230112-PAHs-028.D
Type	Sample	Name	Sample-Gas-221207-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

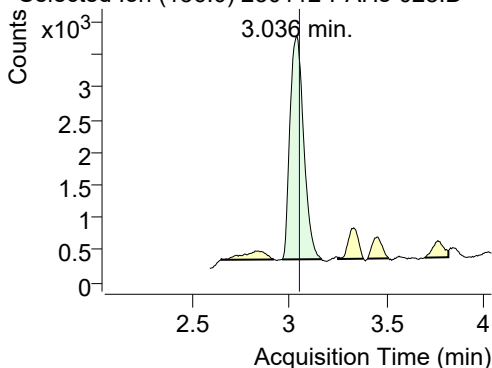
+ TIC SIM 230112-PAHs-028.D (Sample-Gas-221207-10DIL)



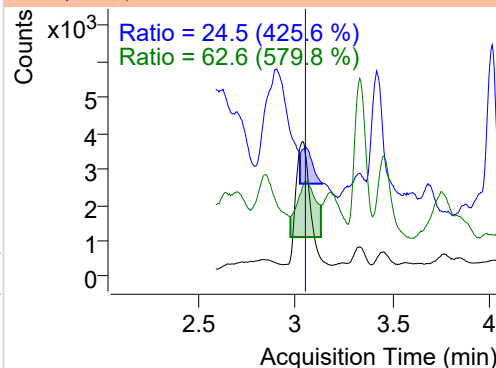
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	16845	3421.71	ND ng/ml	62.6
Naphthalene	3.058	128.0	1263281	254527.55	ND ng/ml	13.3
Acenaphthylene	6.102	152.0	5572	2677.63	ND ng/ml	14.0
IS-D10-Acenaphthene	6.434	164.0	11544	5477.24	ND ng/ml	91.2
Acenaphthene	6.499	154.0	3021	1436.76	ND ng/ml	102.4
LSS-D10-Fluorene	7.564	176.0	11588	6736.49	ND ng/ml	94.3
Fluorene	7.617	166.0	7619	4202.59	ND ng/ml	112.2
IS-D10-Phenanthrene	9.717	188.0	18800	10601.99	ND ng/ml	16.4
Phenanthrene	9.770	178.0	4253	2130.15	ND ng/ml	21.9
Anthracene	9.770	178.0	4253	2130.15	ND ng/ml	21.9
Fluoranthene	12.467	202.0	422	210.63	ND ng/ml	40.0
LSS-D10-Pyrene	12.911	212.0	16171	8398.45	ND ng/ml	17.4
Pyrene	12.944	202.0	554	286.38	ND ng/ml	26.2
Benz(a)anthracene	15.746	228.0	97	41.57	ND ng/ml	36.2
IS-D12-Chrysene	15.784	240.0	13512	5762.02	ND ng/ml	21.4
Chrysene	15.827	228.0	450	197.75	ND ng/ml	32.5
Benzo(b)fluoranthene	18.132	252.0	141	19.76	ND ng/ml	78.8
Benzo(k)fluoranthene	18.132	252.0	141	19.76	ND ng/ml	78.8
SS-D12-Benzo(e)pyrene	18.545	264.0	13753	6292.26	ND ng/ml	24.5
Benzo(e)pyrene	18.516	252.0	176	31.76	ND ng/ml	
Benzo(a)pyrene	18.722	252.0	83	29.76	ND ng/ml	
IS-D12-Perylene	18.815	264.0	9787	4028.00	ND ng/ml	22.7
Perylene	18.801	252.0	125	28.76	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.744	276.0	26	6.45	ND ng/ml	
Dibenz(a,h)anthracene	20.843	278.0	37	6.25	ND ng/ml	58.1
Benzo(g,h,i)perylene	21.133	276.0	32	8.40	ND ng/ml	40.4
Coronene	23.416	300.0	53	10.04	ND ng/ml	

IS-D8-Naphthalene

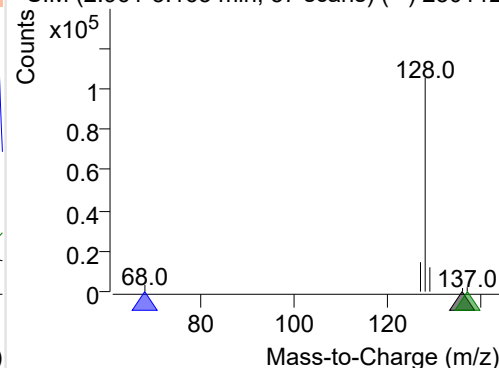
+ Selected Ion (136.0) 230112-PAHs-028.D



136.0, 68.0, 137.0

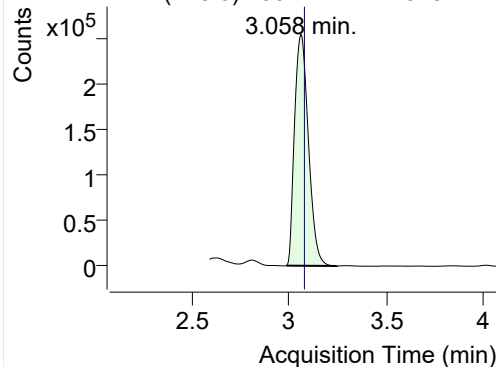


+ SIM (2.961-3.163 min, 37 scans) (**) 230112

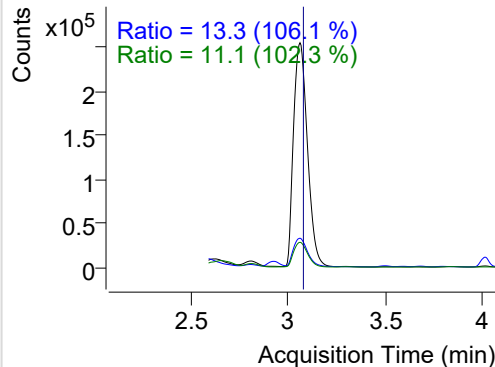


Naphthalene

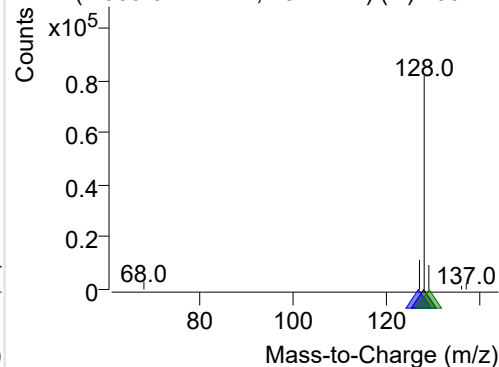
+ Selected Ion (128.0) 230112-PAHs-028.D



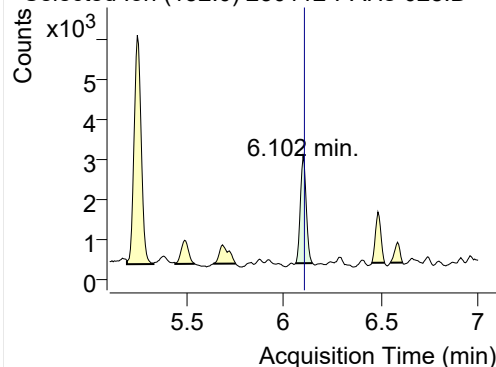
128.0, 127.0, 129.0



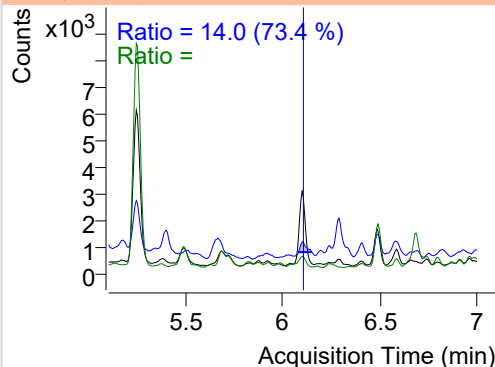
+ SIM (2.983-3.242 min, 48 scans) (**) 230112

**Acenaphthylene**

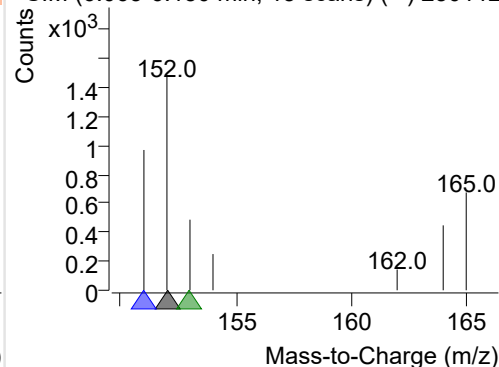
+ Selected Ion (152.0) 230112-PAHs-028.D



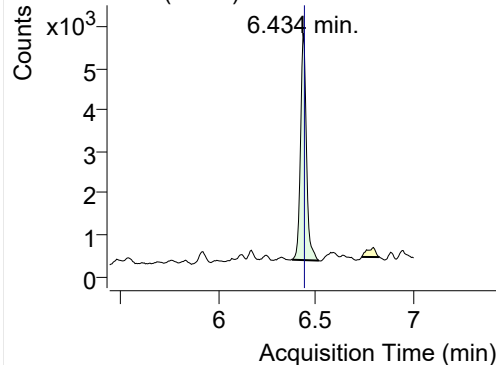
152.0, 151.0, 153.0



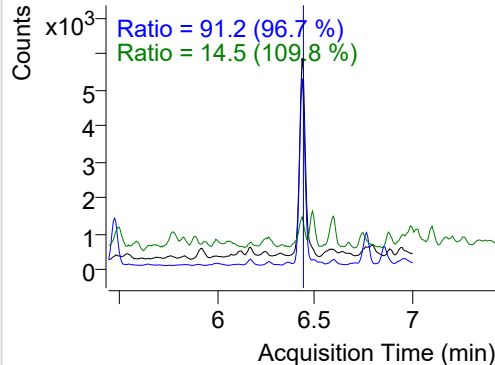
+ SIM (6.063-6.150 min, 15 scans) (**) 230112

**IS-D10-Acenaphthene**

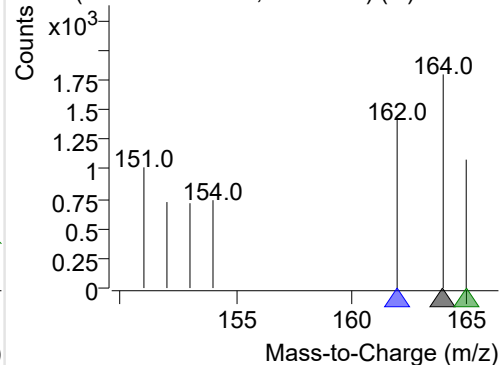
+ Selected Ion (164.0) 230112-PAHs-028.D



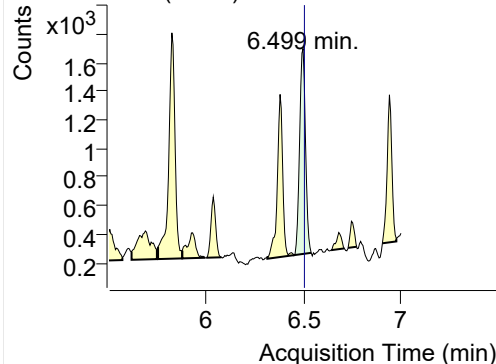
164.0, 162.0, 165.0



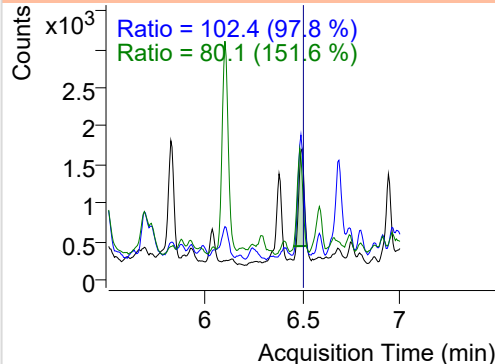
+ SIM (6.380-6.515 min, 23 scans) (**) 230112

**Acenaphthene**

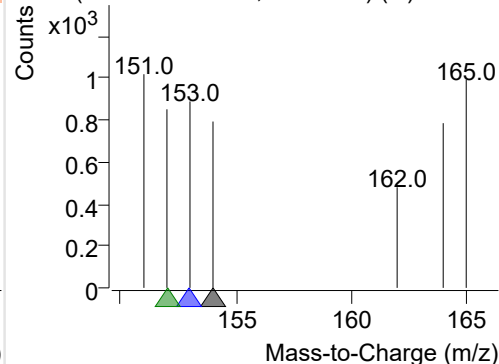
+ Selected Ion (154.0) 230112-PAHs-028.D



154.0, 153.0, 152.0

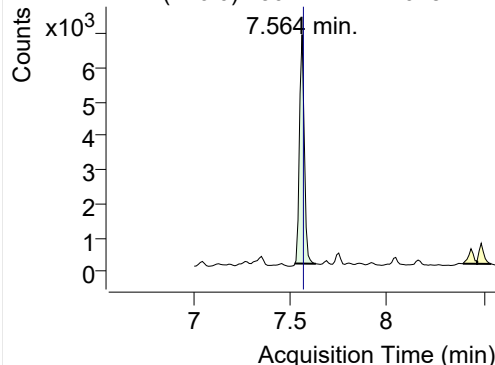


+ SIM (6.451-6.540 min, 16 scans) (**) 230112

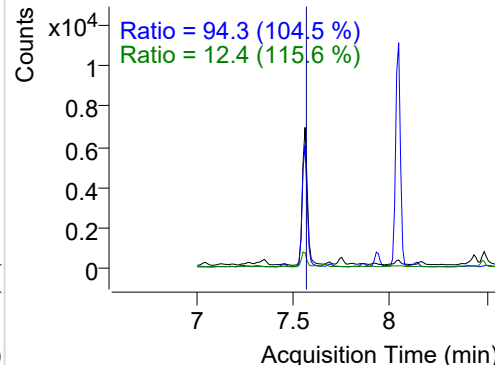


LSS-D10-Fluorene

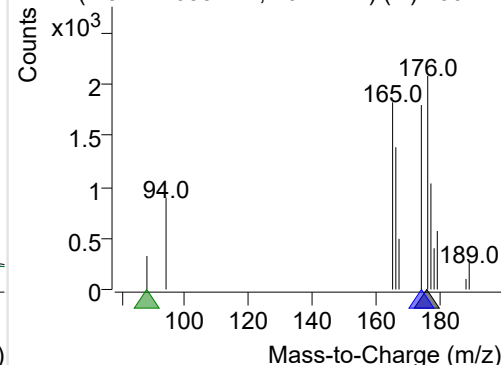
+ Selected Ion (176.0) 230112-PAHs-028.D



176.0, 174.0, 88.0

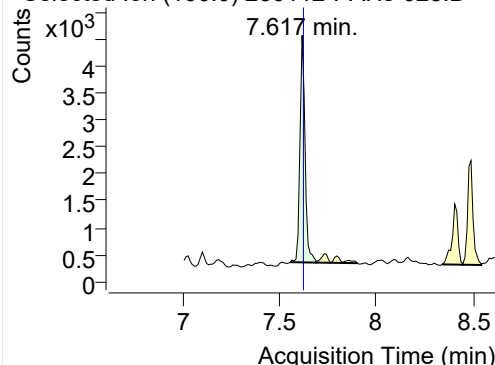


+ SIM (7.527-7.635 min, 10 scans) (**) 230112

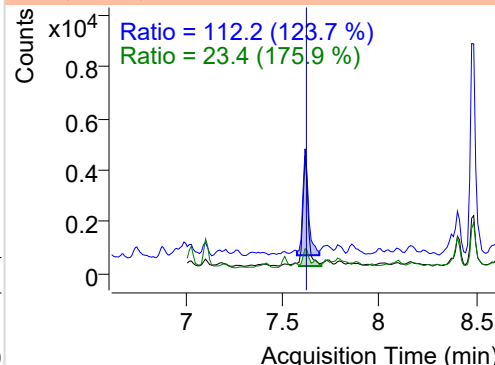


Fluorene

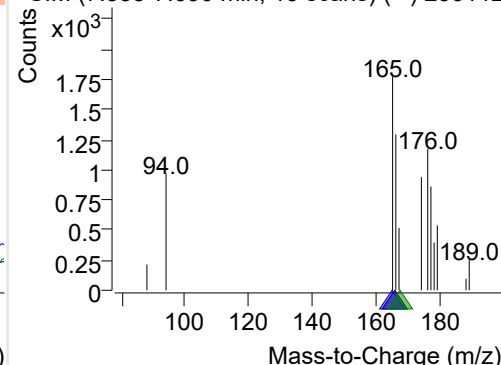
+ Selected Ion (166.0) 230112-PAHs-028.D



166.0, 165.0, 167.0

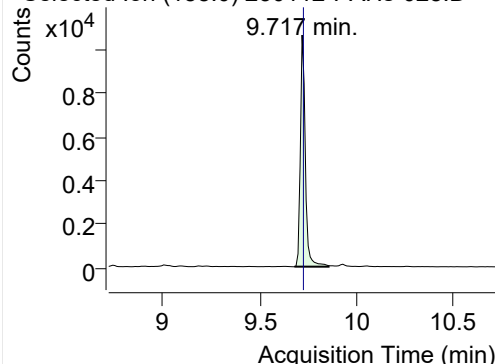


+ SIM (7.555-7.690 min, 13 scans) (**) 230112

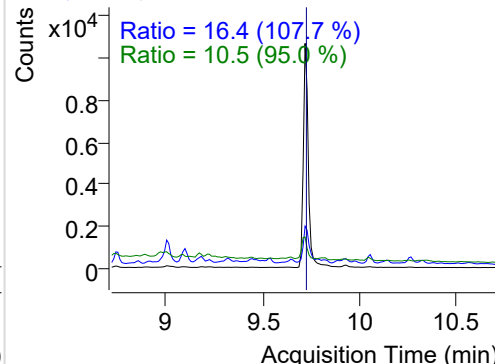


IS-D10-Phenanthrene

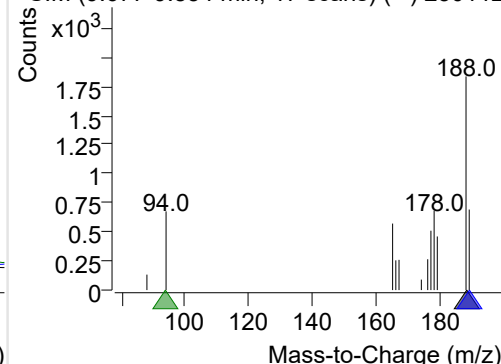
+ Selected Ion (188.0) 230112-PAHs-028.D



188.0, 189.0, 94.0

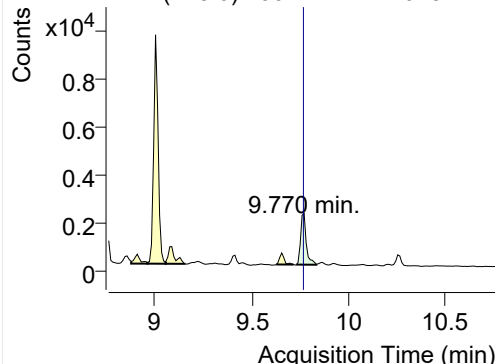


+ SIM (9.677-9.854 min, 17 scans) (**) 230112

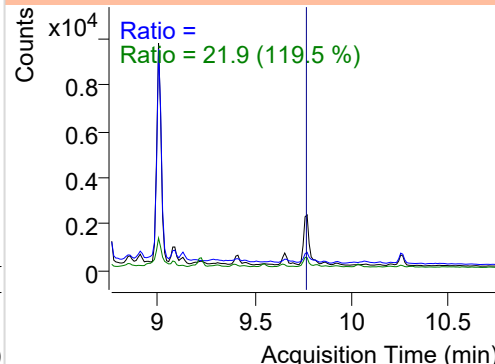


Phenanthrene

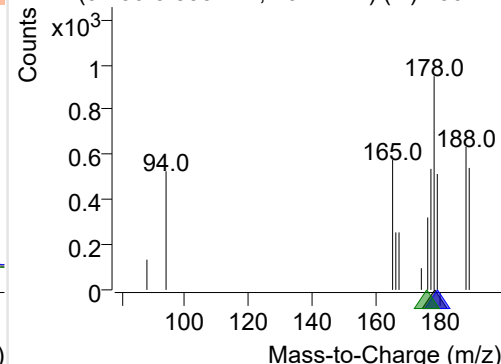
+ Selected Ion (178.0) 230112-PAHs-028.D



178.0, 179.0, 176.0

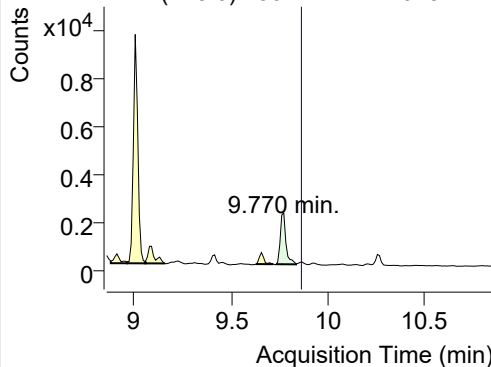


+ SIM (9.730-9.833 min, 10 scans) (**) 230112

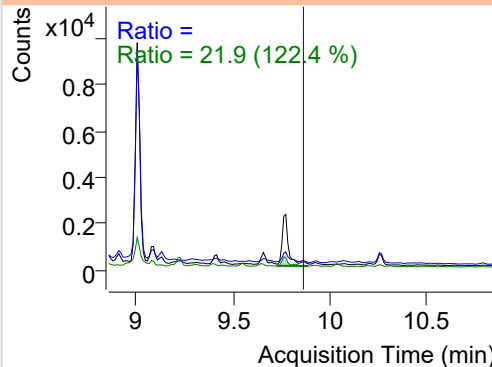


Anthracene

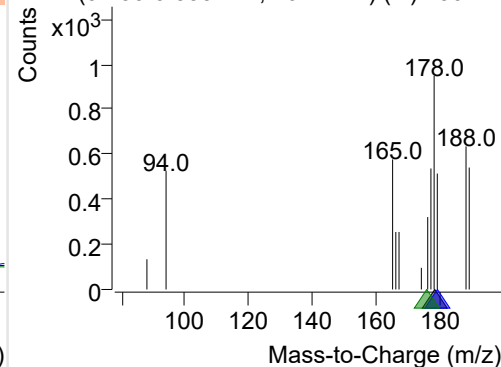
+ Selected Ion (178.0) 230112-PAHs-028.D



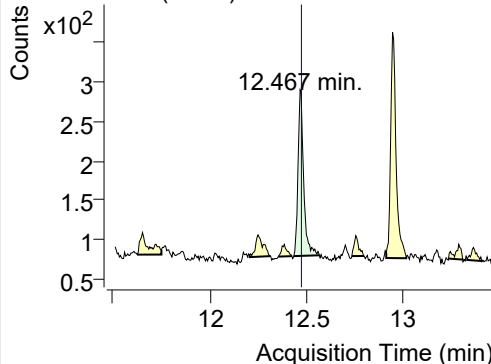
178.0, 179.0, 176.0



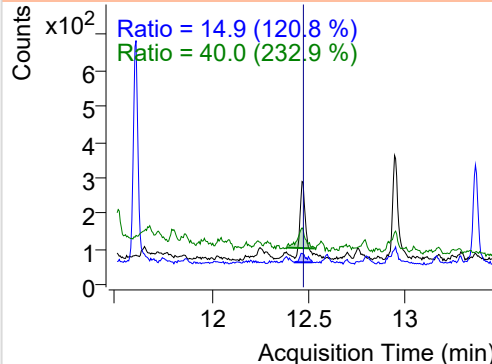
+ SIM (9.730-9.833 min, 10 scans) (**) 230112

**Fluoranthene**

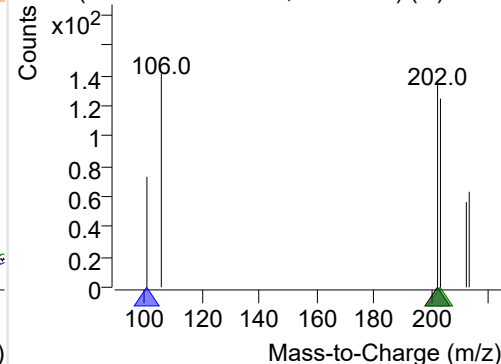
+ Selected Ion (202.0) 230112-PAHs-028.D



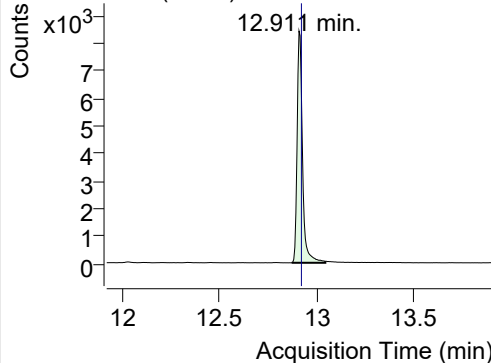
202.0, 101.0, 203.0



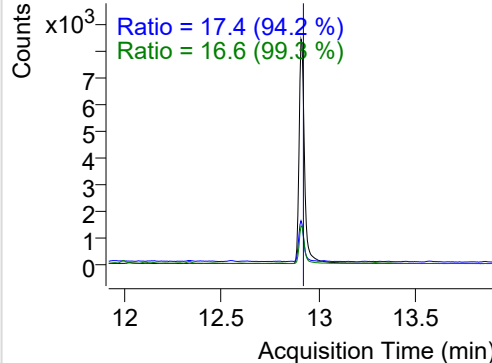
+ SIM (12.434-12.566 min, 24 scans) (**) 2301

**LSS-D10-Pyrene**

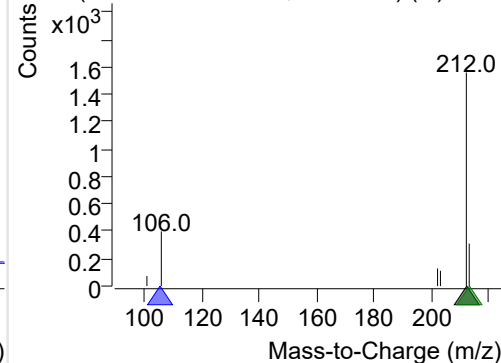
+ Selected Ion (212.0) 230112-PAHs-028.D



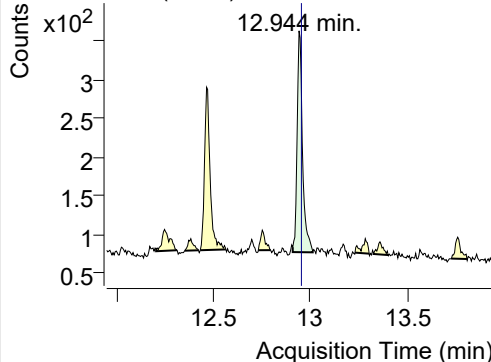
212.0, 106.0, 213.0



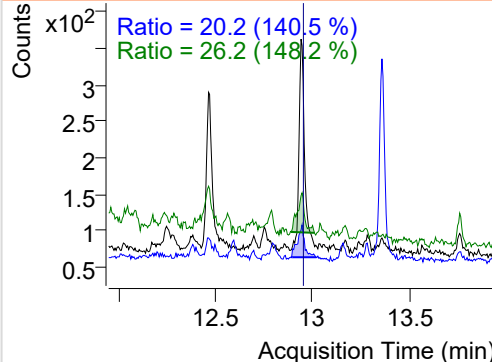
+ SIM (12.873-13.047 min, 33 scans) (**) 2301

**Pyrene**

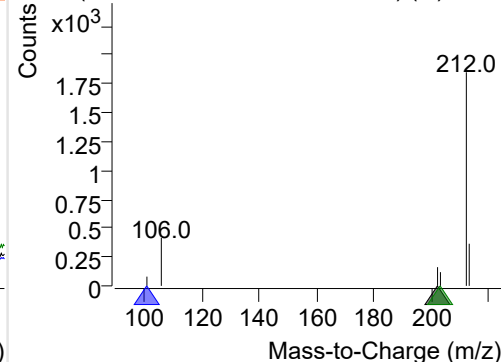
+ Selected Ion (202.0) 230112-PAHs-028.D



202.0, 101.0, 203.0



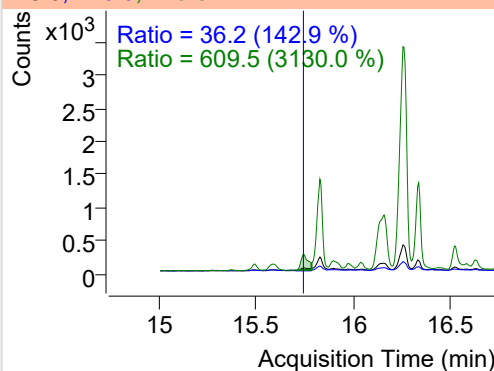
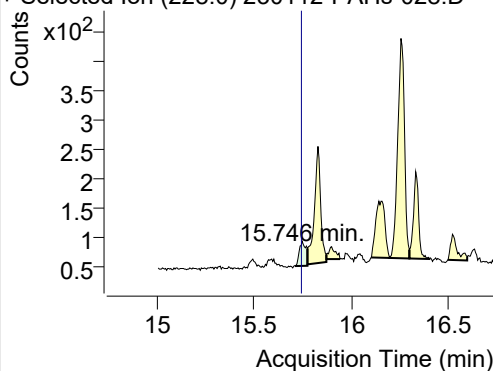
+ SIM (12.911-13.014 min, 20 scans) (**) 2301



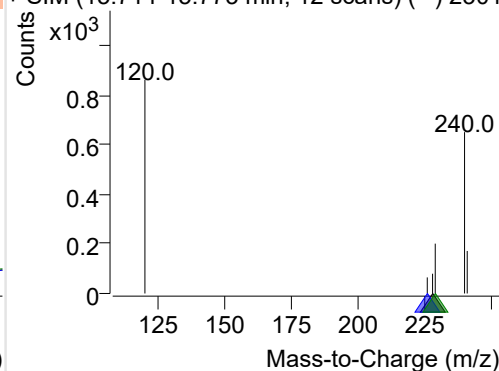
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-028.D

228.0, 226.0, 229.0

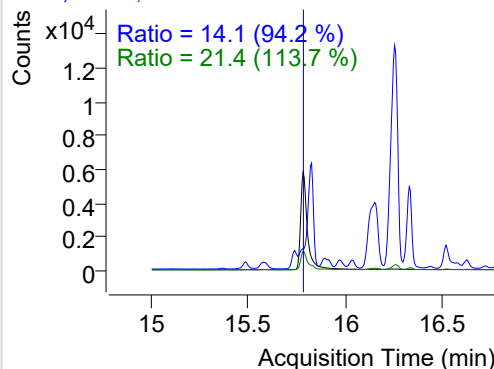
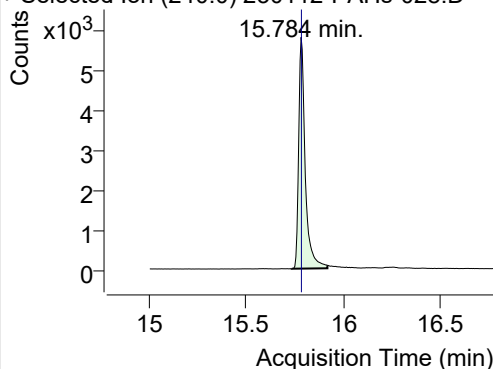


+ SIM (15.714-15.773 min, 12 scans) (**) 2301

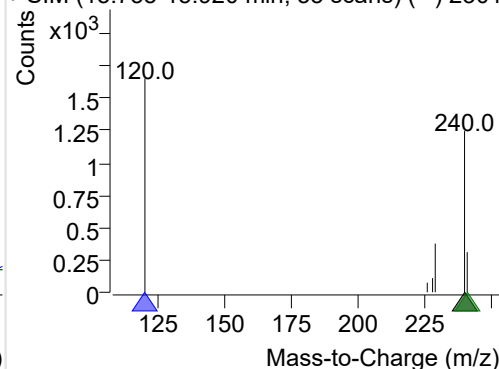
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-028.D

240.0, 120.0, 241.0

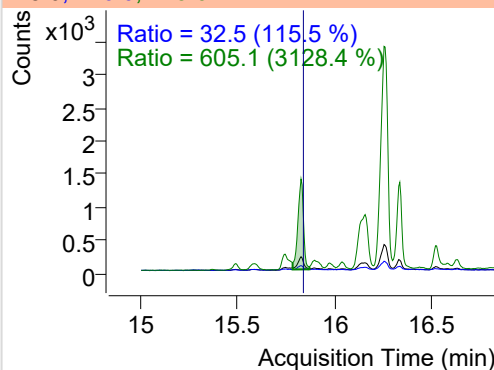
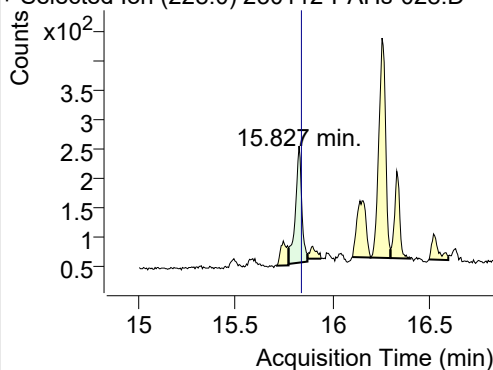


+ SIM (15.735-15.920 min, 35 scans) (**) 2301

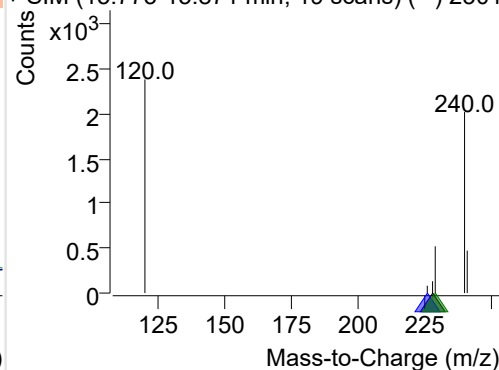
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-028.D

228.0, 226.0, 229.0

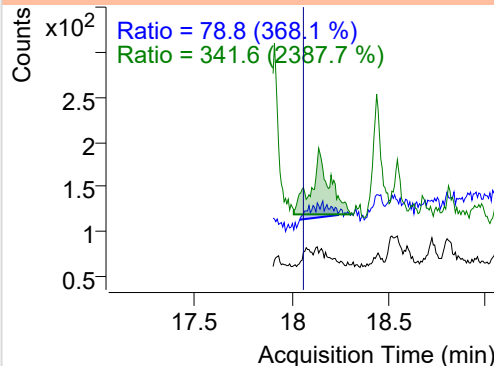
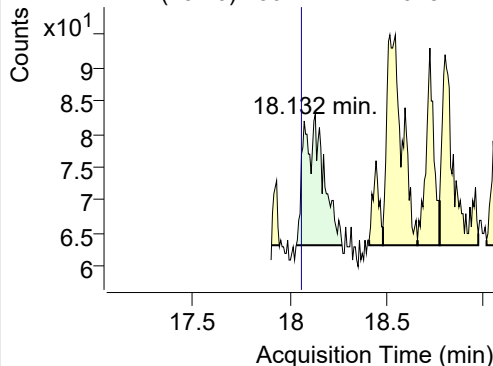


+ SIM (15.773-15.871 min, 19 scans) (**) 2301

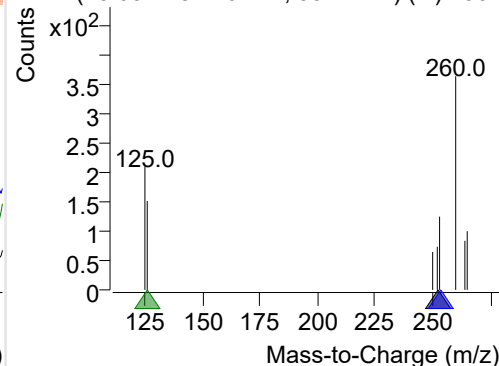
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-028.D

252.0, 253.0, 126.0



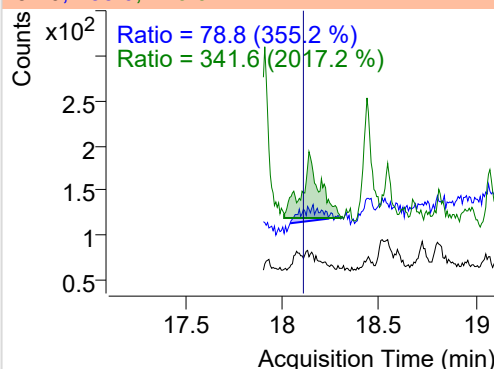
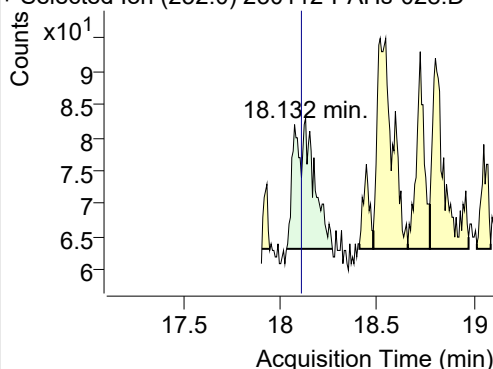
+ SIM (18.034-18.270 min, 33 scans) (**) 2301



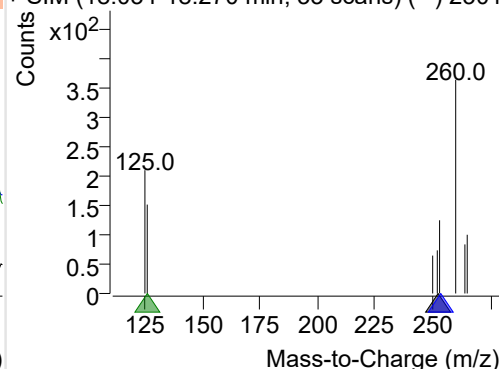
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-028.D

252.0, 253.0, 126.0

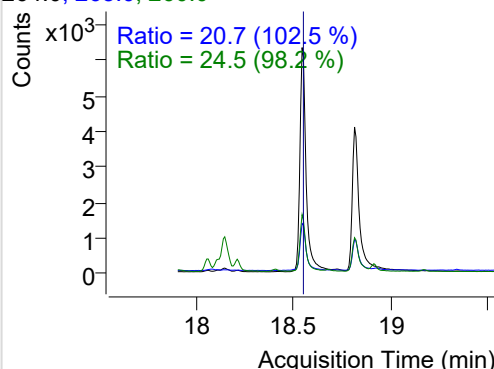
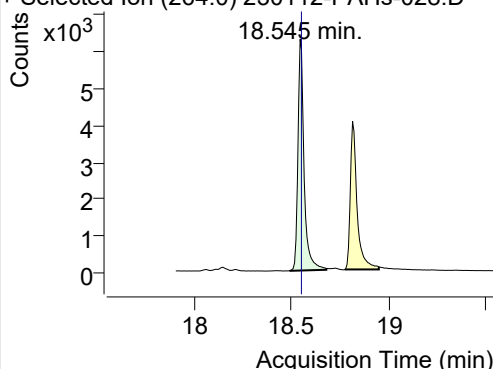


+ SIM (18.034-18.270 min, 33 scans) (**) 2301

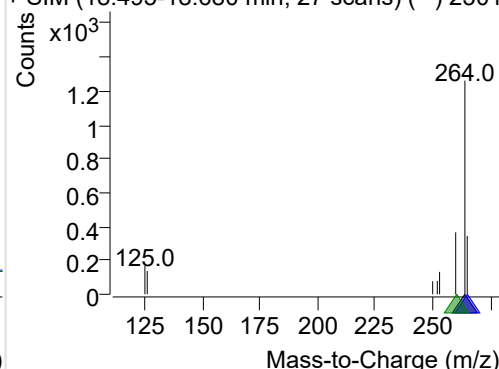
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-028.D

264.0, 265.0, 260.0

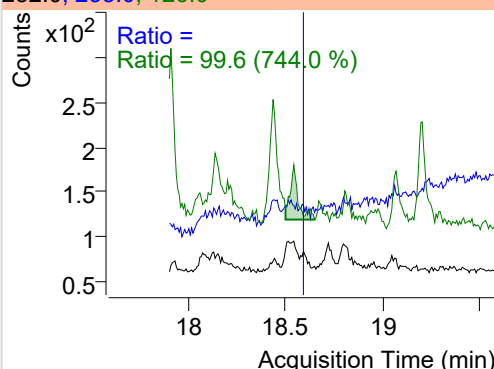
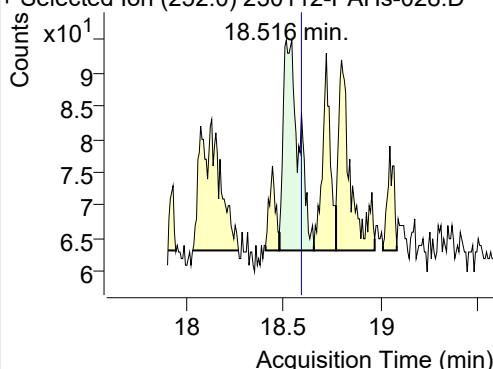


+ SIM (18.495-18.680 min, 27 scans) (**) 2301

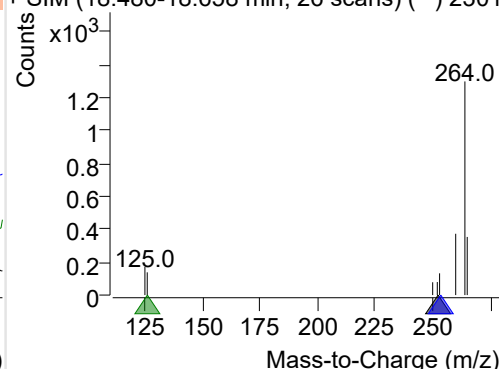
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-028.D

252.0, 253.0, 126.0

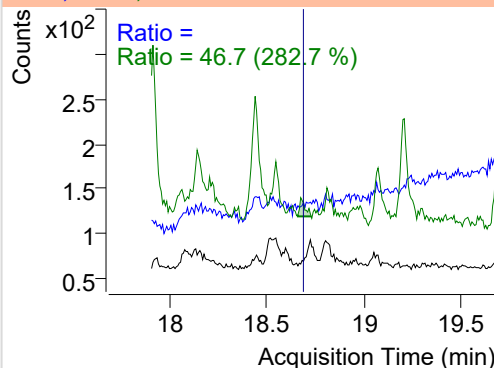
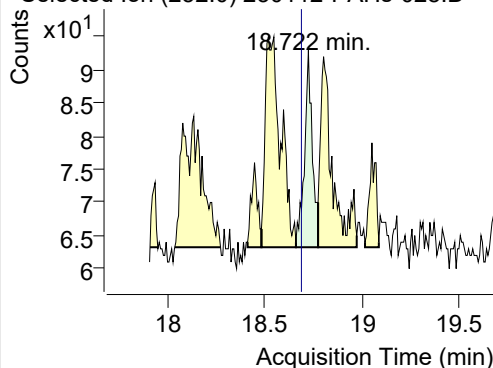


+ SIM (18.480-18.658 min, 26 scans) (**) 2301

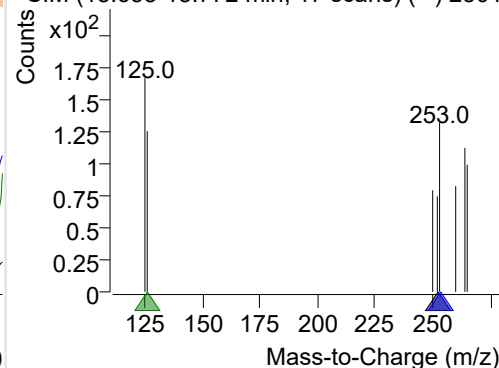
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-028.D

252.0, 253.0, 126.0

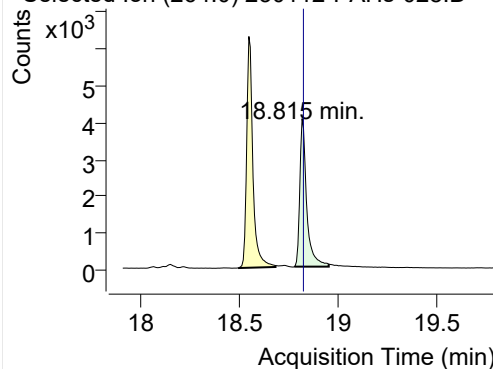


+ SIM (18.658-18.772 min, 17 scans) (**) 2301

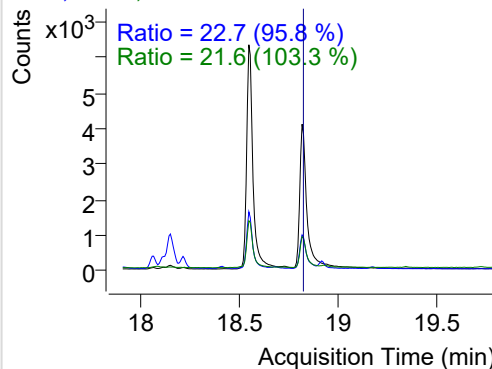


IS-D12-Perylene

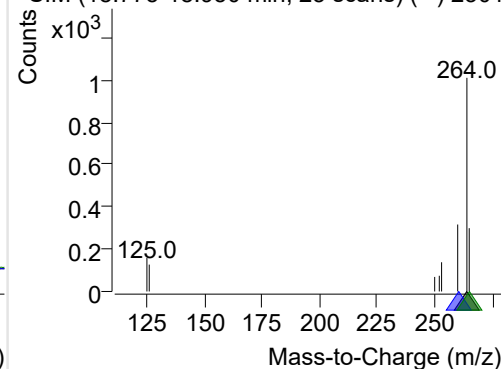
+ Selected Ion (264.0) 230112-PAHs-028.D



264.0, 260.0, 265.0

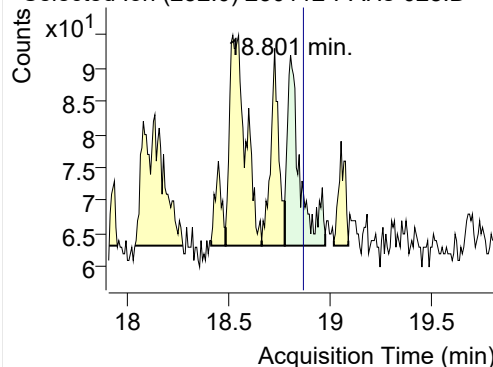


+ SIM (18.775-18.950 min, 25 scans) (**) 2301

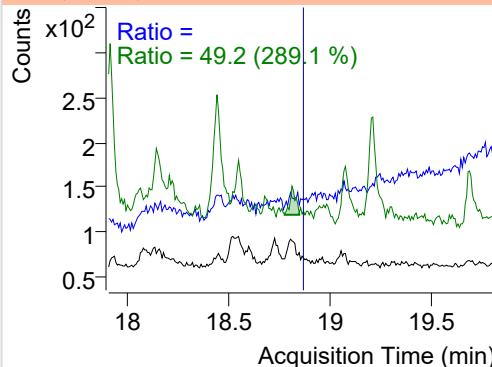


Perylene

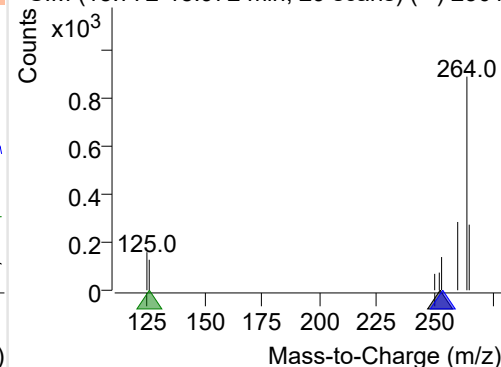
+ Selected Ion (252.0) 230112-PAHs-028.D



252.0, 253.0, 126.0

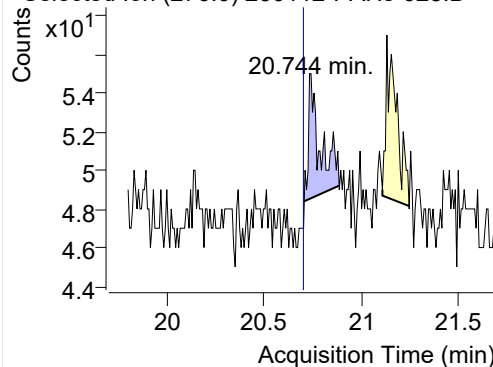


+ SIM (18.772-18.972 min, 29 scans) (**) 2301

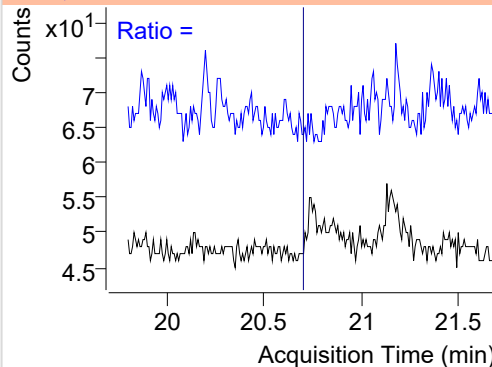


Indeno(1,2,3-c,d)pyrene

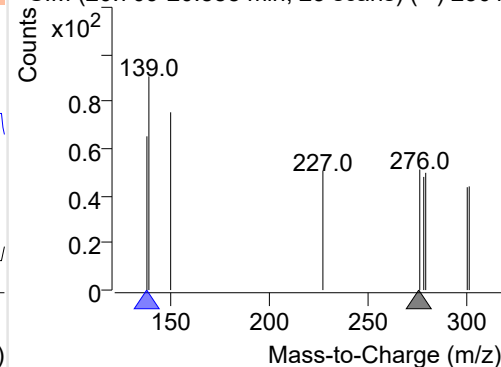
+ Selected Ion (276.0) 230112-PAHs-028.D



276.0, 138.0

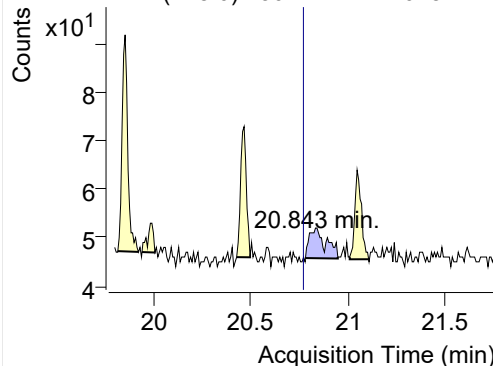


+ SIM (20.709-20.888 min, 23 scans) (**) 2301

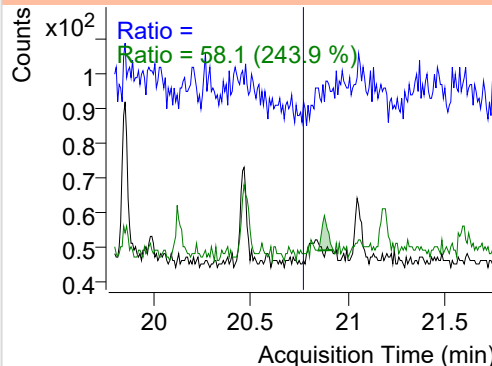


Dibenz(a,h)anthracene

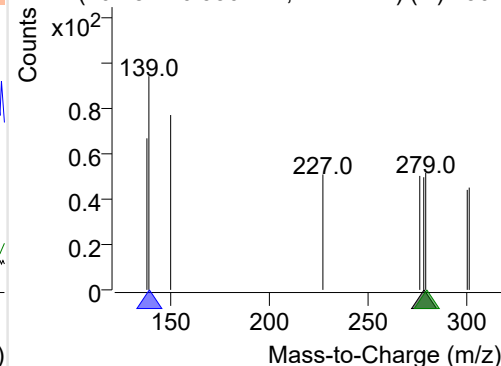
+ Selected Ion (278.0) 230112-PAHs-028.D



278.0, 139.0, 279.0



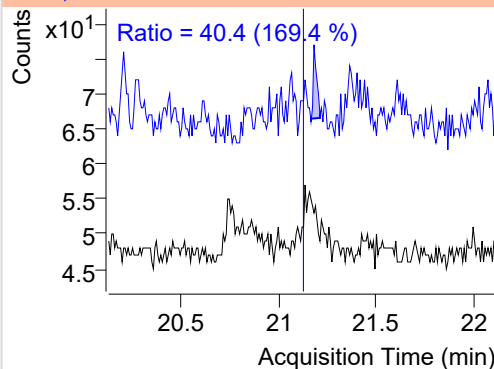
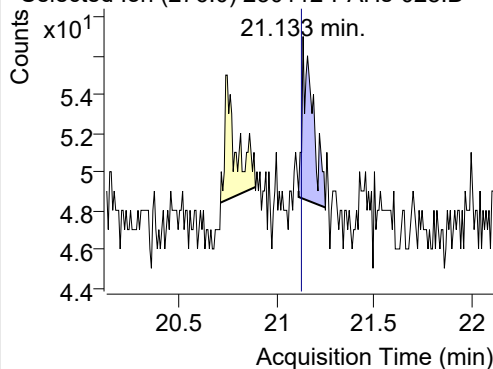
+ SIM (20.784-20.950 min, 22 scans) (**) 2301



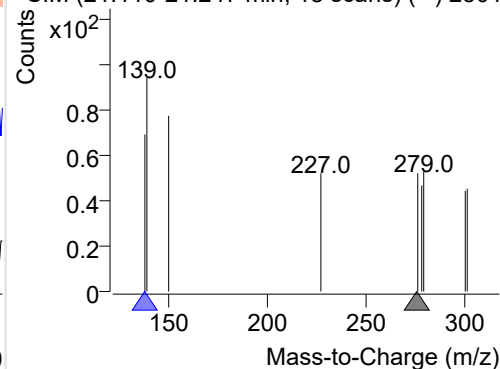
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-028.D

276.0, 138.0

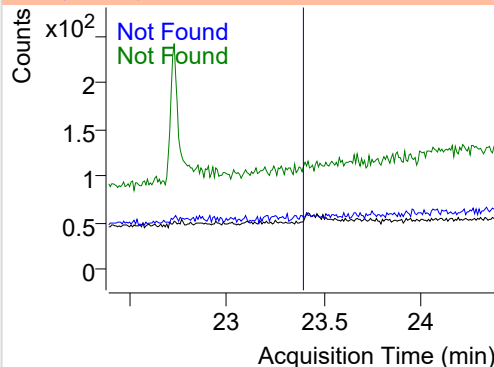
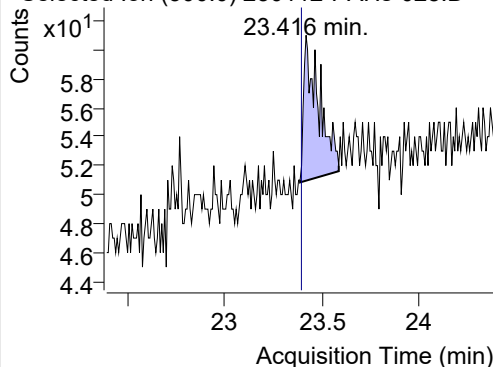


+ SIM (21.110-21.247 min, 18 scans) (**) 2301

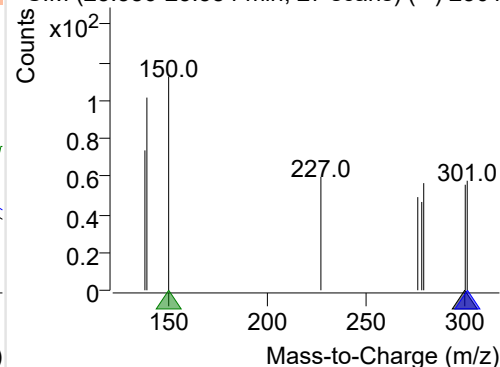
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-028.D

300.0, 301.0, 150.0



+ SIM (23.386-23.584 min, 27 scans) (**) 2301



Quantitative Analysis Sample Based Report

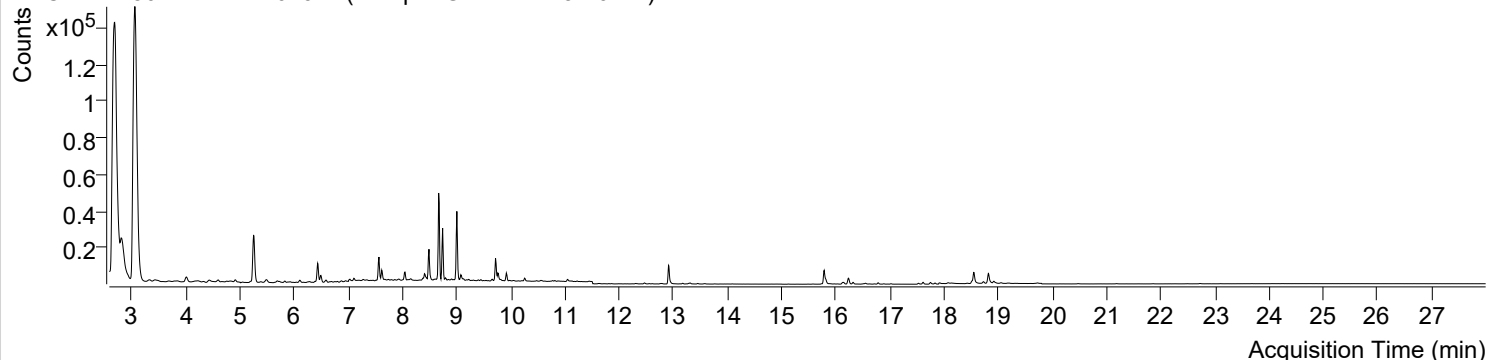


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 2:16:38	Data File	230112-PAHs-029.D
Type	Sample	Name	Sample-Gas-221215-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

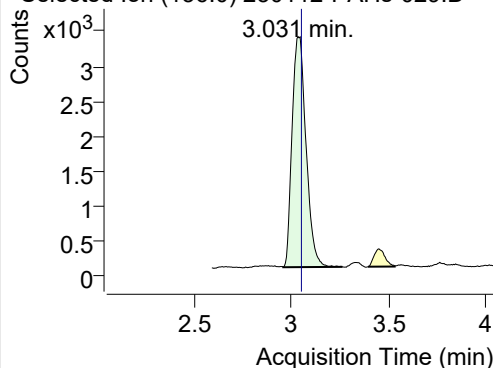
+ TIC SIM 230112-PAHs-029.D (Sample-Gas-221215-10DIL)



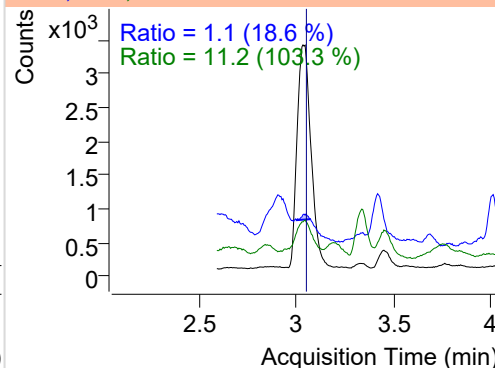
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	16494	3304.58	ND ng/ml	11.2
Naphthalene	3.058	128.0	589179	118367.12	ND ng/ml	11.2
Acenaphthylene	6.102	152.0	1793	845.24	ND ng/ml	20.8
IS-D10-Acenaphthene	6.434	164.0	10266	4990.24	ND ng/ml	92.7
Acenaphthene	6.493	154.0	1985	933.35	ND ng/ml	113.9
LSS-D10-Fluorene	7.564	176.0	10145	5777.74	ND ng/ml	91.4
Fluorene	7.617	166.0	4748	2530.53	ND ng/ml	101.7
IS-D10-Phenanthrene	9.717	188.0	17349	9771.72	ND ng/ml	18.3
Phenanthrene	9.759	178.0	4858	2383.39	ND ng/ml	20.8
Anthracene	9.917	178.0	1814	1117.86	ND ng/ml	28.6
Fluoranthene	12.467	202.0	746	383.12	ND ng/ml	27.0
LSS-D10-Pyrene	12.911	212.0	13882	7424.63	ND ng/ml	17.3
Pyrene	12.949	202.0	736	376.93	ND ng/ml	24.3
Benz(a)anthracene	15.746	228.0	68	34.92	ND ng/ml	49.9
IS-D12-Chrysene	15.784	240.0	11905	5575.49	ND ng/ml	19.2
Chrysene	15.833	228.0	256	83.24	ND ng/ml	30.9
Benzo(b)fluoranthene	18.075	252.0	179	42.81	ND ng/ml	158.9
Benzo(k)fluoranthene	18.075	252.0	179	42.81	ND ng/ml	158.9
SS-D12-Benzo(e)pyrene	18.545	264.0	10010	3997.80	ND ng/ml	23.7
Benzo(e)pyrene	18.516	252.0	535	177.55	ND ng/ml	18.9
Benzo(a)pyrene	18.723	252.0	345	146.00	ND ng/ml	17.3
IS-D12-Perylene	18.815	264.0	8847	3576.13	ND ng/ml	23.6
Perylene	18.794	252.0	214	94.19	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.728	276.0	11	5.29	ND ng/ml	
Dibenz(a,h)anthracene	20.828	278.0	35	5.47	ND ng/ml	67.4
Benzo(g,h,i)perylene	21.164	276.0	41	9.08	ND ng/ml	37.3
Coronene	23.439	300.0	37	7.87	ND ng/ml	

IS-D8-Naphthalene

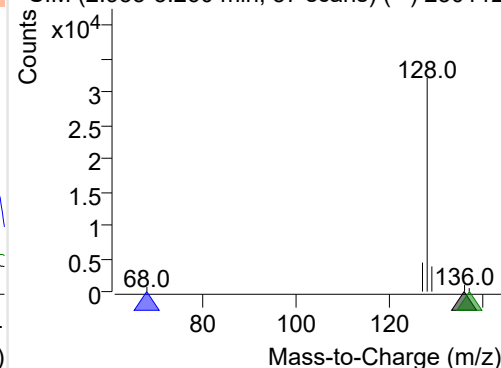
+ Selected Ion (136.0) 230112-PAHs-029.D



136.0, 68.0, 137.0

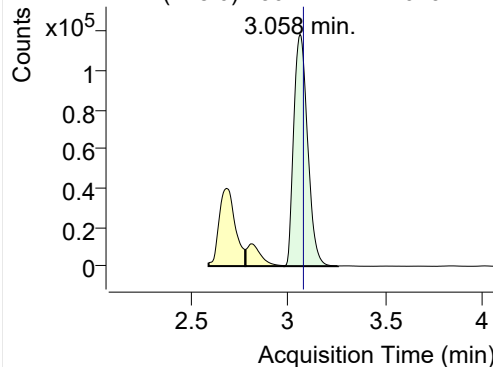


+ SIM (2.955-3.260 min, 57 scans) (**) 230112

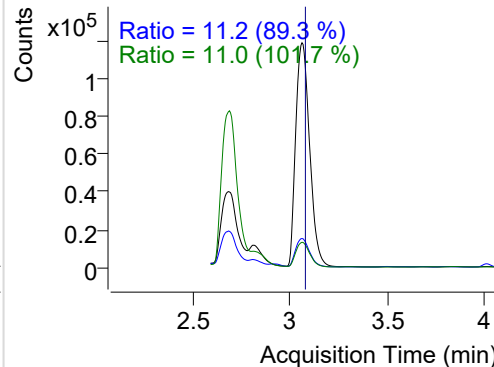


Naphthalene

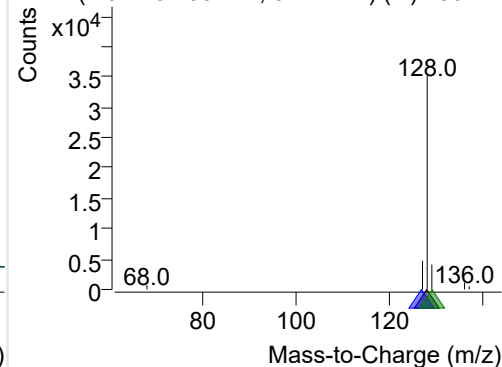
+ Selected Ion (128.0) 230112-PAHs-029.D



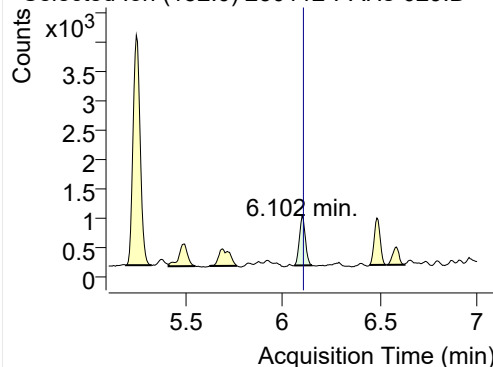
128.0, 127.0, 129.0



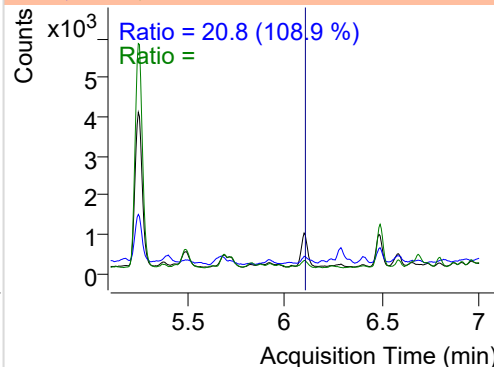
+ SIM (2.977-3.253 min, 52 scans) (**) 230112

**Acenaphthylene**

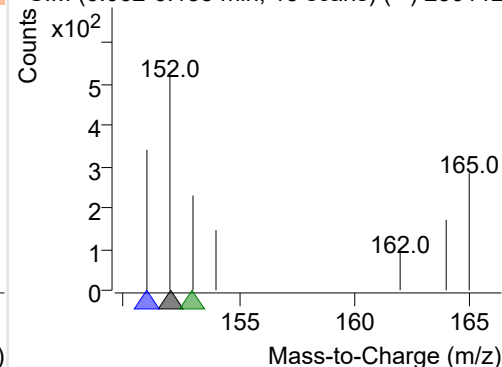
+ Selected Ion (152.0) 230112-PAHs-029.D



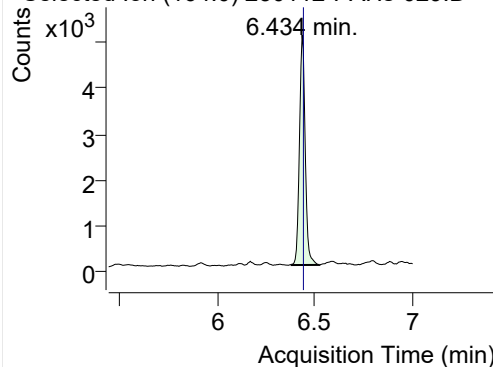
152.0, 151.0, 153.0



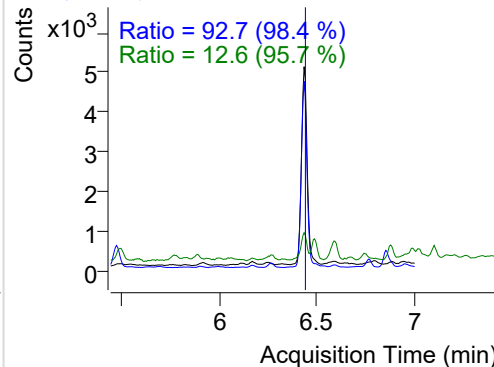
+ SIM (6.062-6.153 min, 15 scans) (**) 230112

**IS-D10-Acenaphthene**

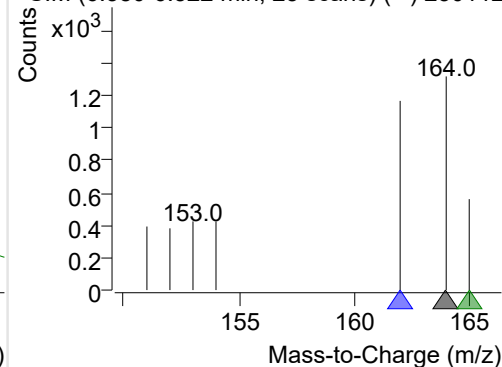
+ Selected Ion (164.0) 230112-PAHs-029.D



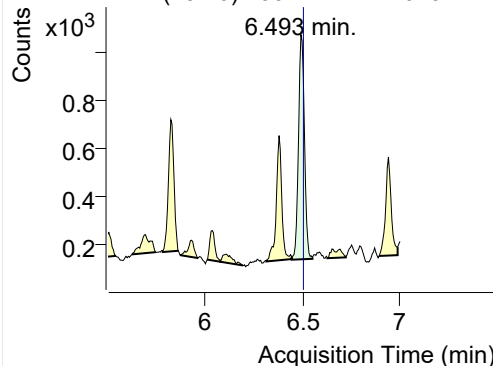
164.0, 162.0, 165.0



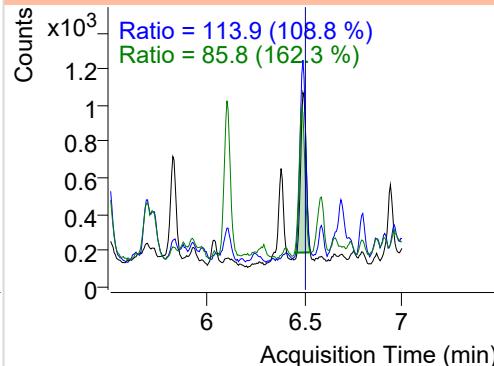
+ SIM (6.380-6.522 min, 25 scans) (**) 230112

**Acenaphthene**

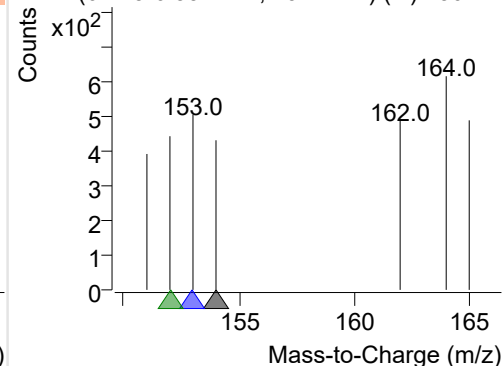
+ Selected Ion (154.0) 230112-PAHs-029.D



154.0, 153.0, 152.0

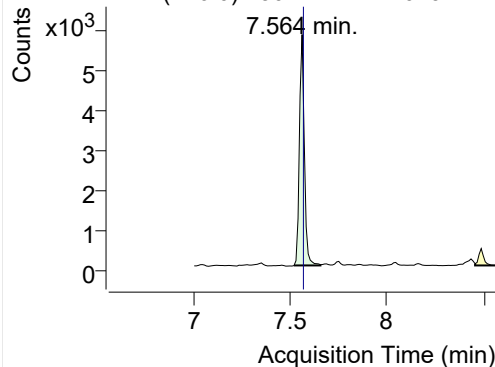


+ SIM (6.445-6.552 min, 19 scans) (**) 230112

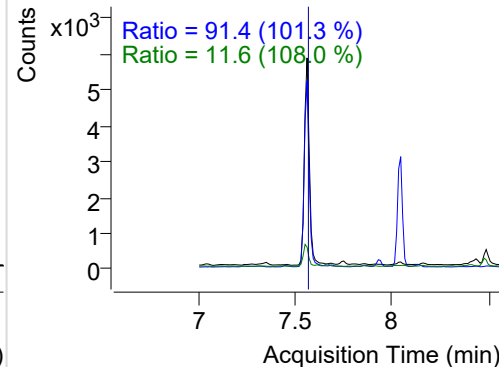


LSS-D10-Fluorene

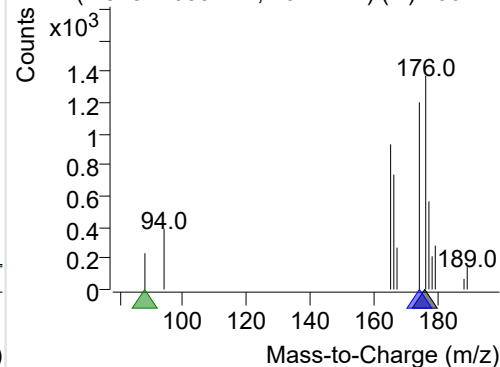
+ Selected Ion (176.0) 230112-PAHs-029.D



176.0, 174.0, 88.0

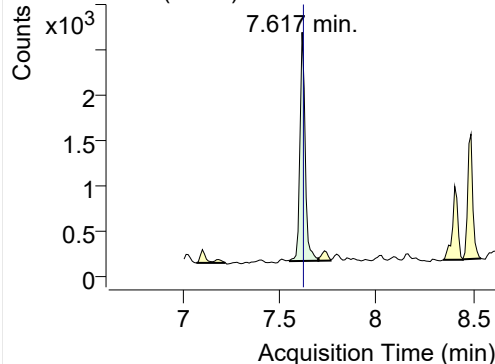


+ SIM (7.523-7.659 min, 13 scans) (**) 230112

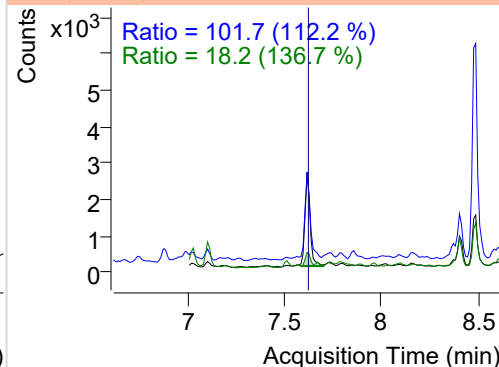


Fluorene

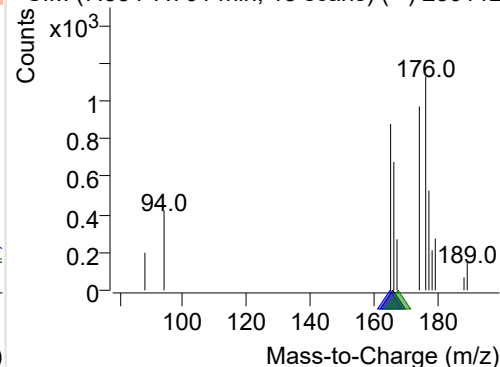
+ Selected Ion (166.0) 230112-PAHs-029.D



166.0, 165.0, 167.0

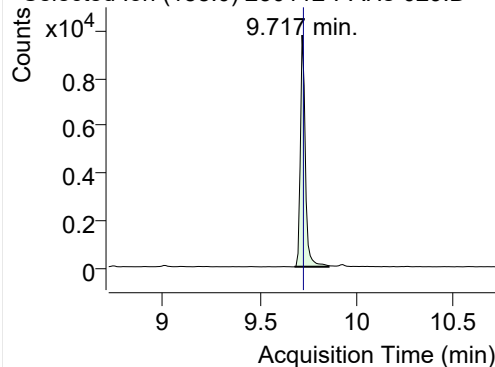


+ SIM (7.554-7.701 min, 15 scans) (**) 230112

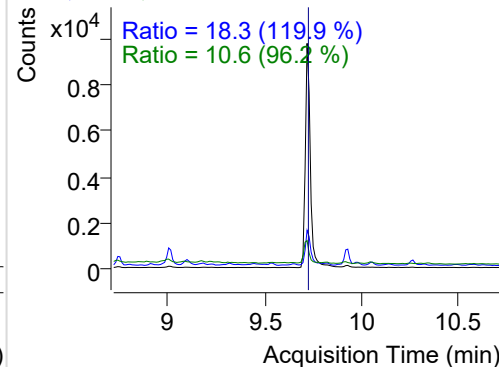


IS-D10-Phenanthrene

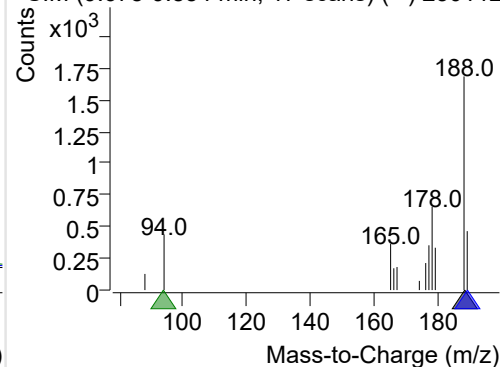
+ Selected Ion (188.0) 230112-PAHs-029.D



188.0, 189.0, 94.0

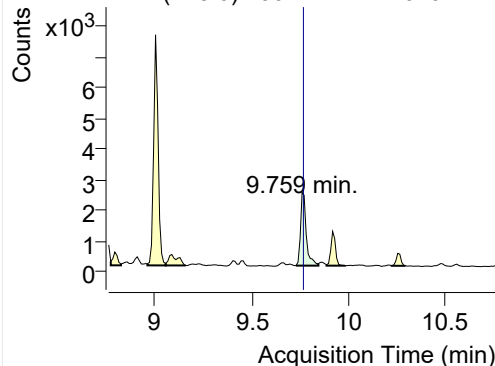


+ SIM (9.678-9.854 min, 17 scans) (**) 230112

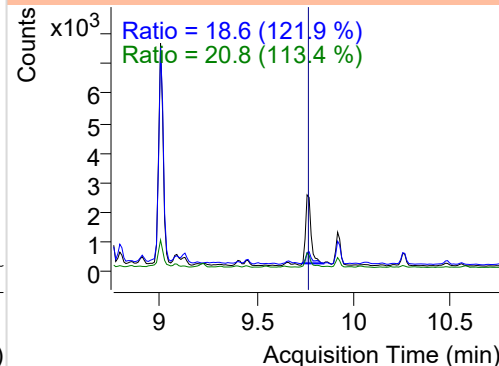


Phenanthrene

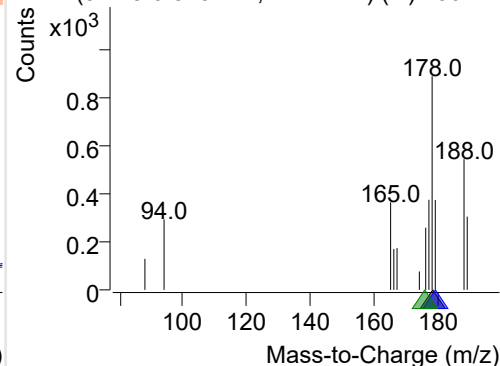
+ Selected Ion (178.0) 230112-PAHs-029.D



178.0, 179.0, 176.0

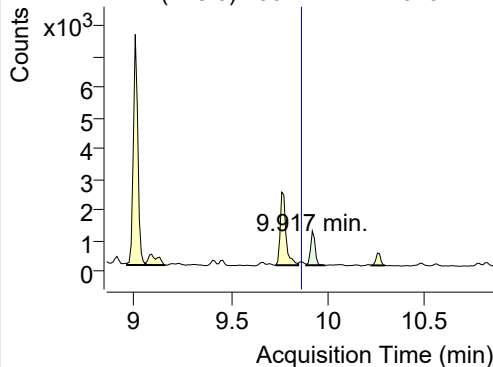


+ SIM (9.728-9.843 min, 11 scans) (**) 230112

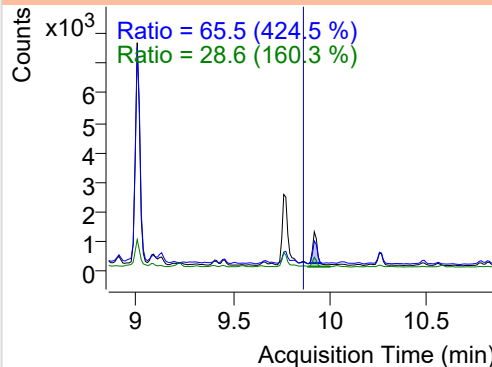


Anthracene

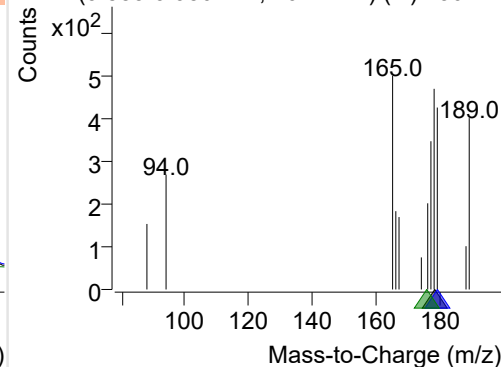
+ Selected Ion (178.0) 230112-PAHs-029.D



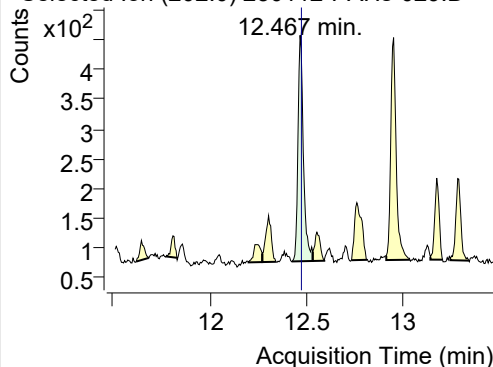
178.0, 179.0, 176.0



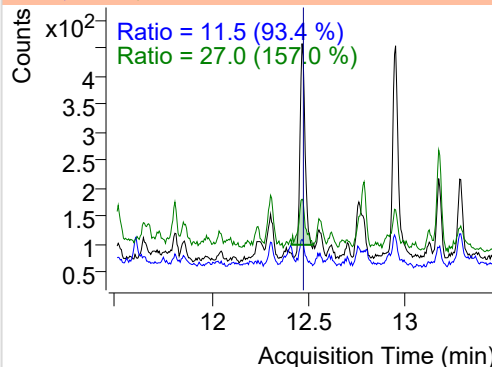
+ SIM (9.885-9.980 min, 10 scans) (**) 230112

**Fluoranthene**

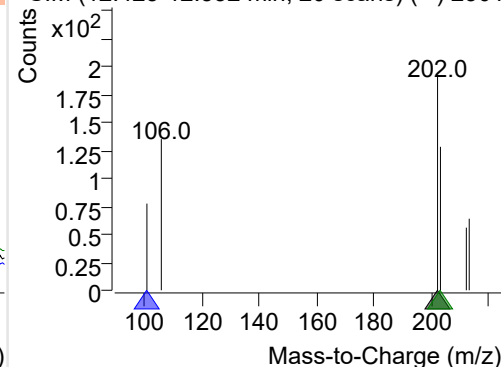
+ Selected Ion (202.0) 230112-PAHs-029.D



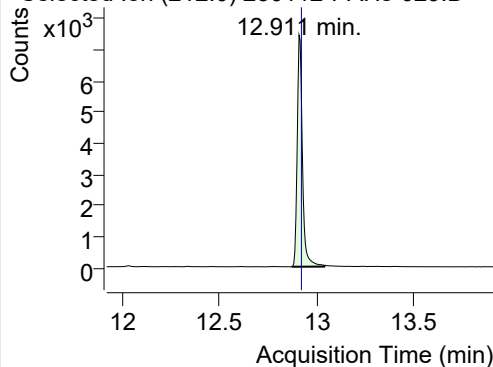
202.0, 101.0, 203.0



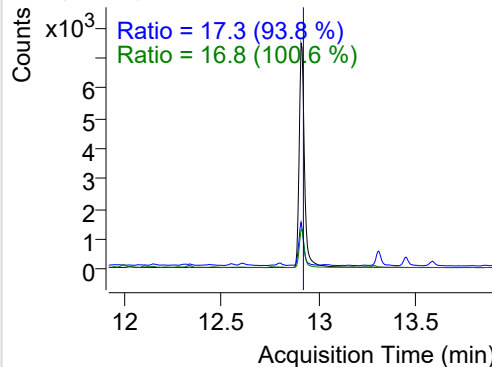
+ SIM (12.425-12.532 min, 20 scans) (**) 2301

**LSS-D10-Pyrene**

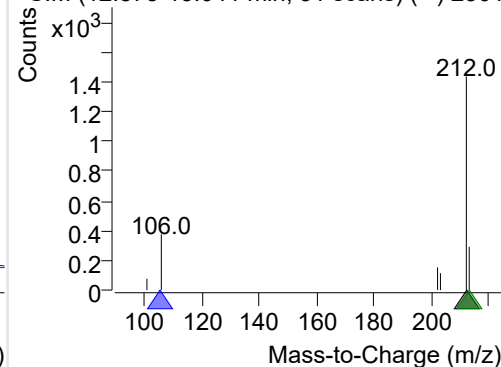
+ Selected Ion (212.0) 230112-PAHs-029.D



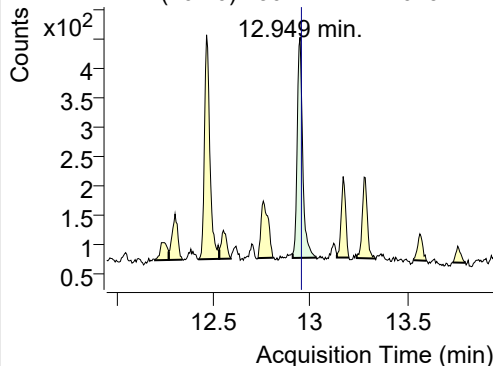
212.0, 106.0, 213.0



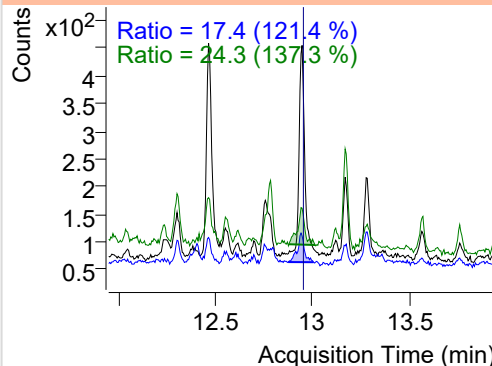
+ SIM (12.873-13.041 min, 31 scans) (**) 2301

**Pyrene**

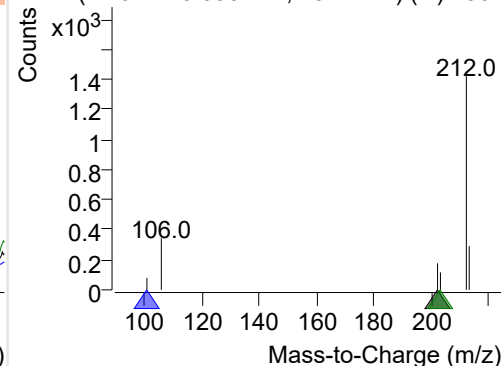
+ Selected Ion (202.0) 230112-PAHs-029.D



202.0, 101.0, 203.0



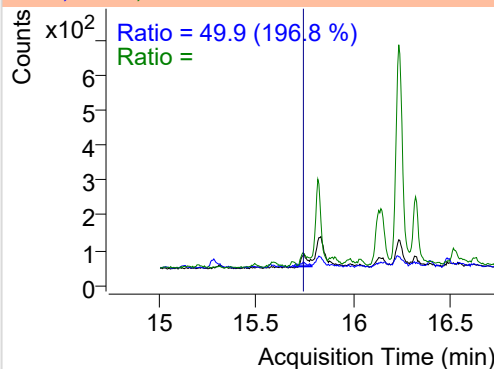
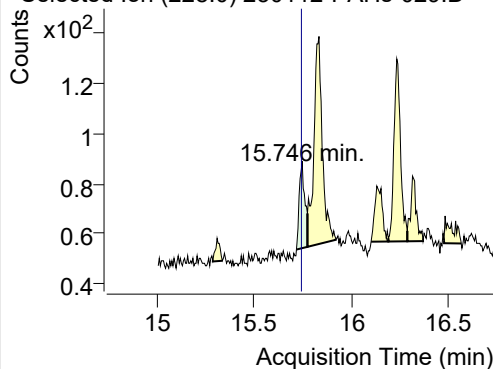
+ SIM (12.911-13.033 min, 23 scans) (**) 2301



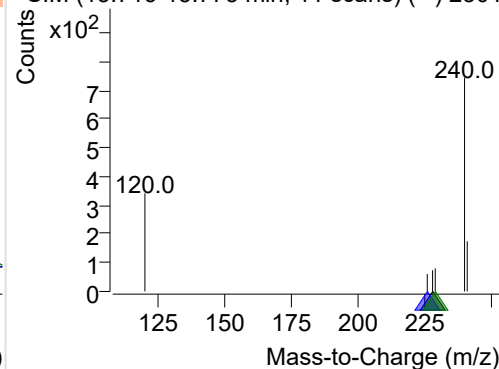
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-029.D

228.0, 226.0, 229.0

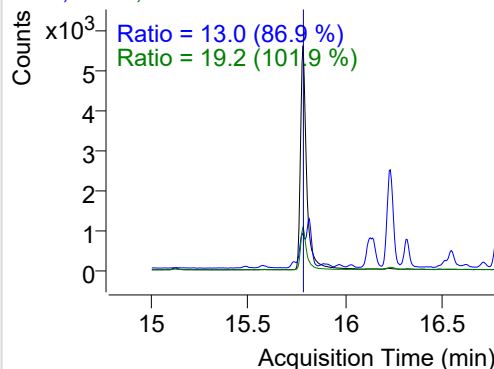
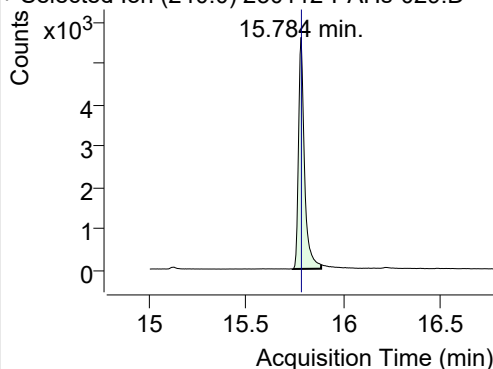


+ SIM (15.716-15.773 min, 11 scans) (**) 2301

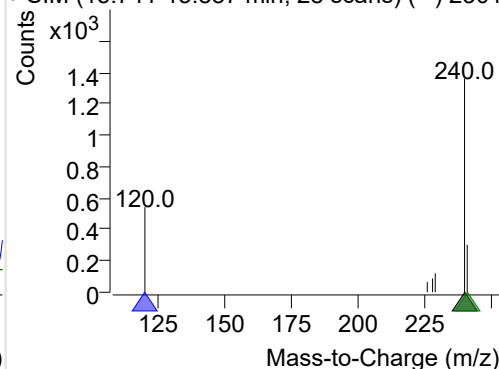
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-029.D

240.0, 120.0, 241.0

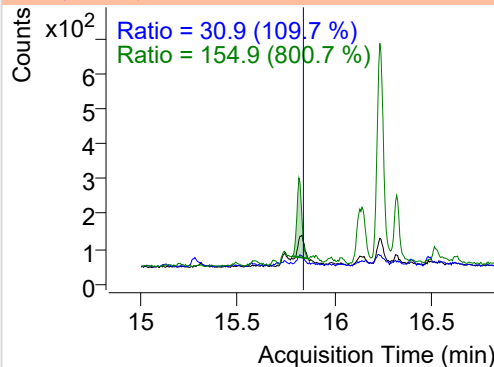
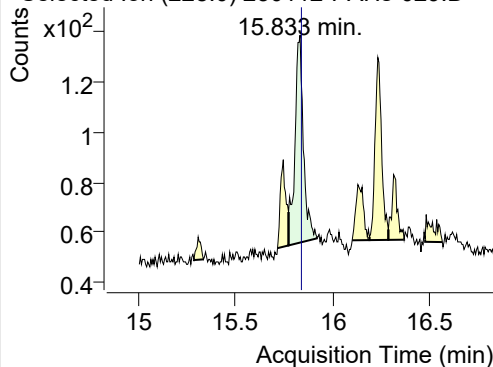


+ SIM (15.741-15.887 min, 28 scans) (**) 2301

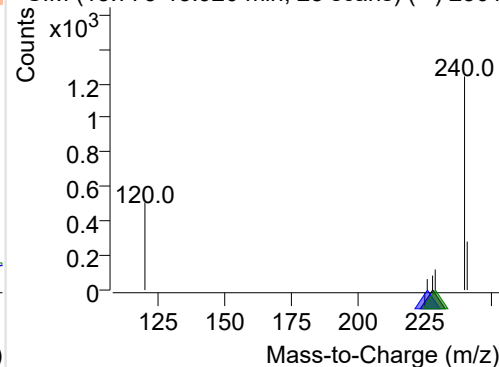
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-029.D

228.0, 226.0, 229.0

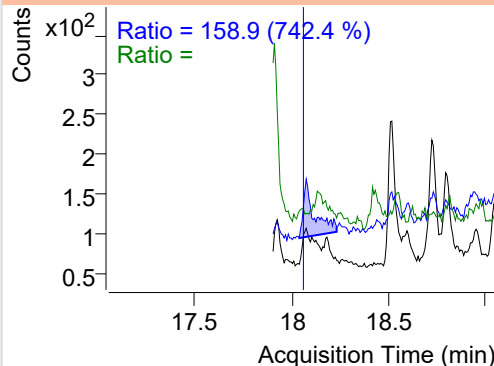
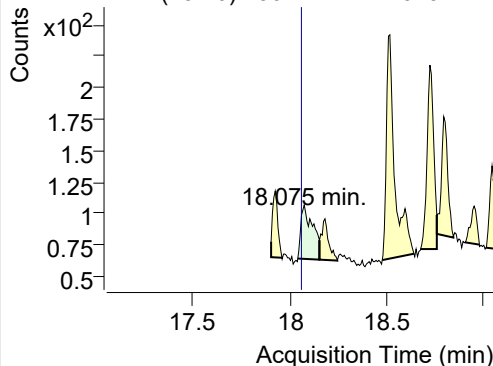


+ SIM (15.773-15.920 min, 28 scans) (**) 2301

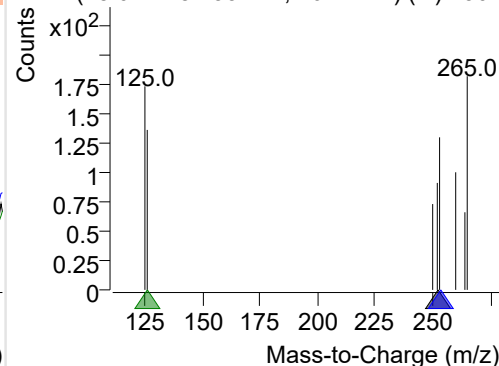
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-029.D

252.0, 253.0, 126.0



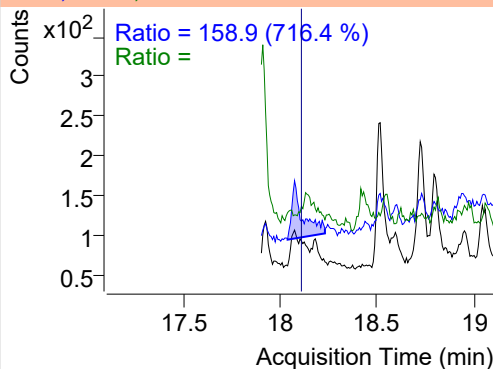
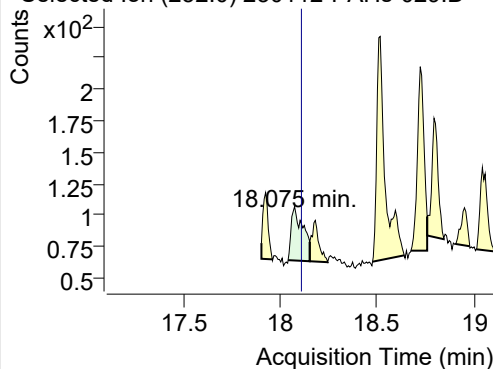
+ SIM (18.041-18.153 min, 16 scans) (**) 2301



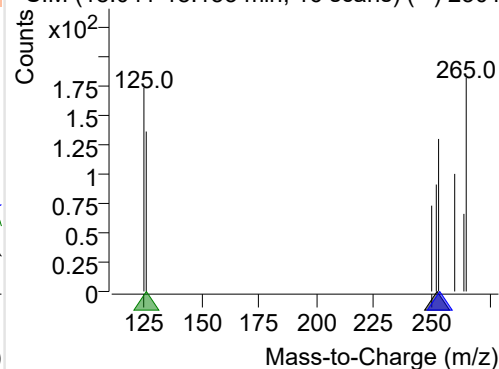
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-029.D

252.0, 253.0, 126.0

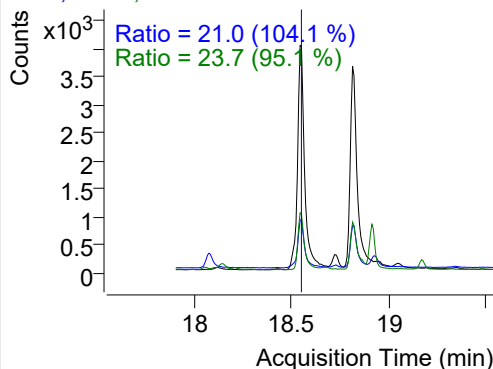
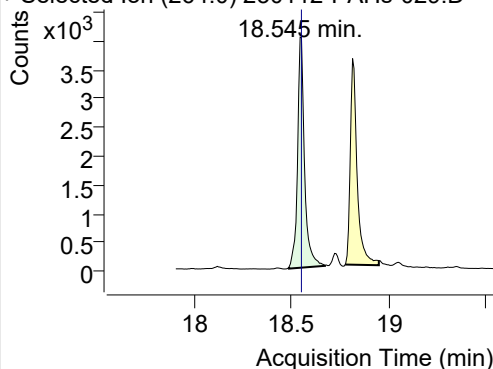


+ SIM (18.041-18.153 min, 16 scans) (**) 2301

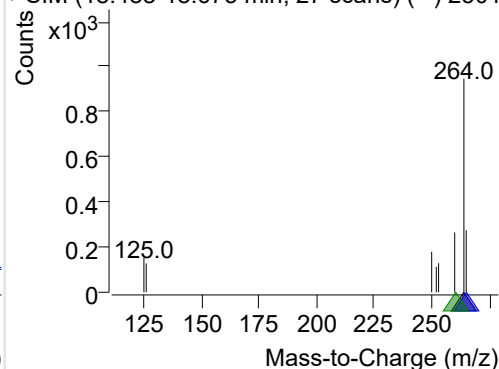
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-029.D

264.0, 265.0, 260.0

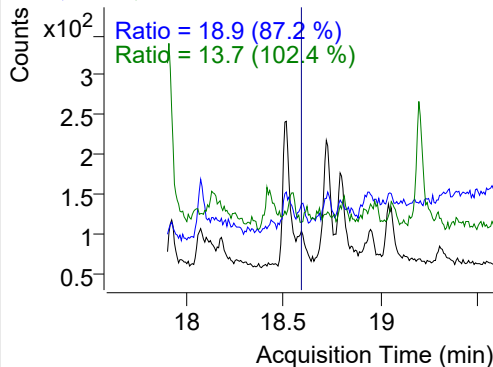
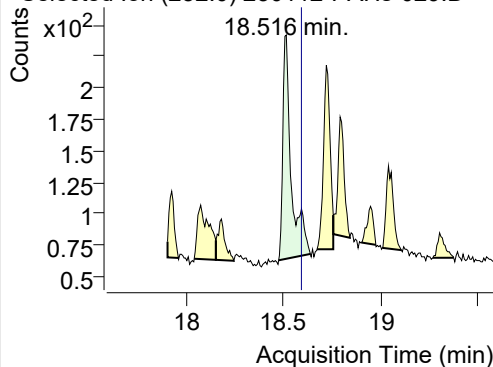


+ SIM (18.488-18.673 min, 27 scans) (**) 2301

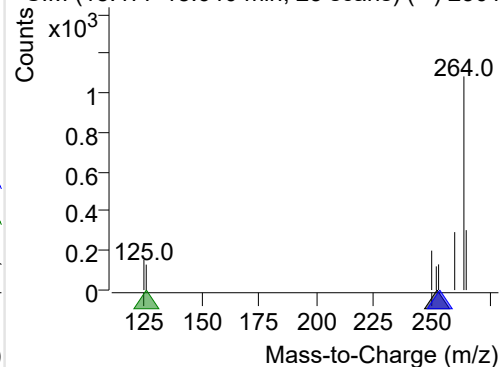
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-029.D

252.0, 253.0, 126.0

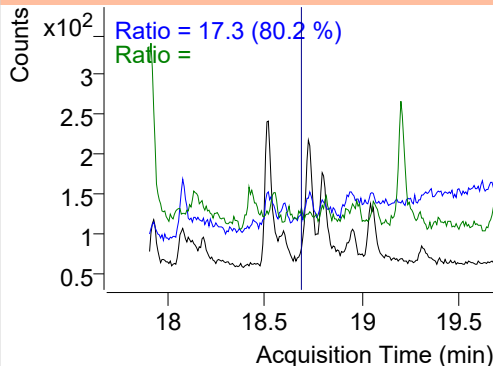
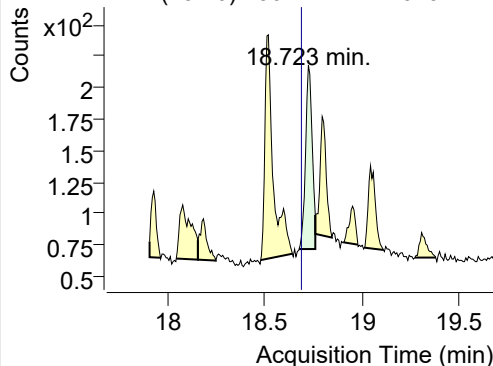


+ SIM (18.477-18.640 min, 23 scans) (**) 2301

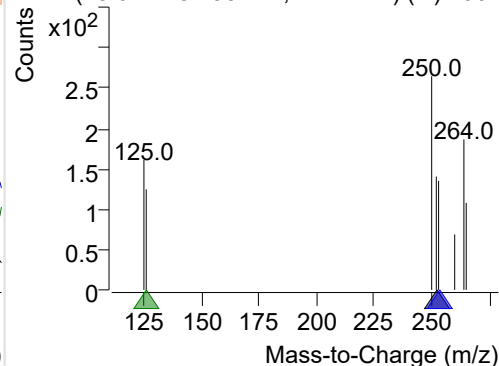
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-029.D

252.0, 253.0, 126.0

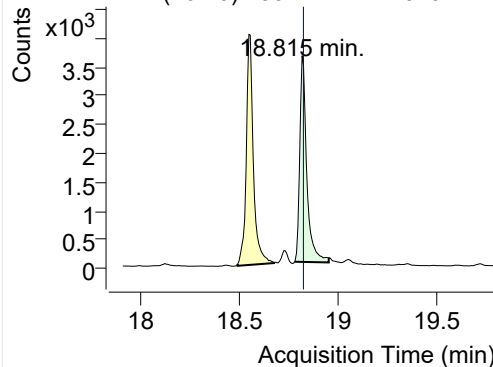


+ SIM (18.674-18.758 min, 12 scans) (**) 2301

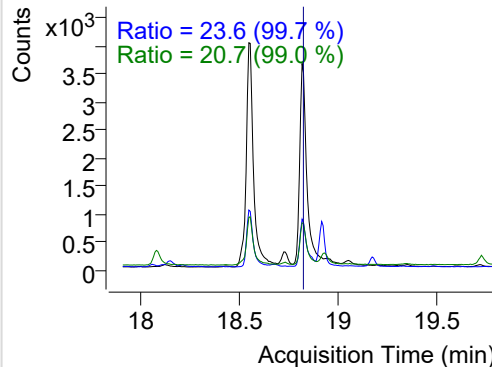


IS-D12-Perylene

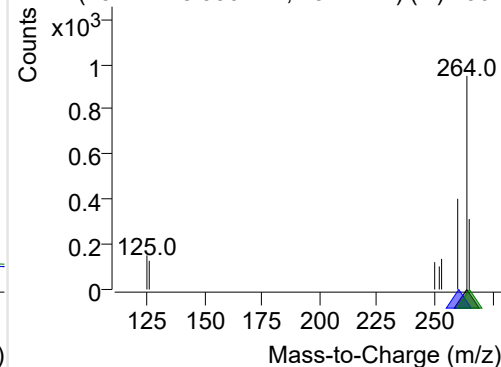
+ Selected Ion (264.0) 230112-PAHs-029.D



264.0, 260.0, 265.0

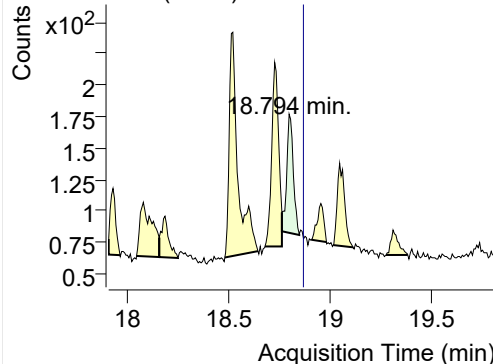


+ SIM (18.777-18.950 min, 25 scans) (**) 2301

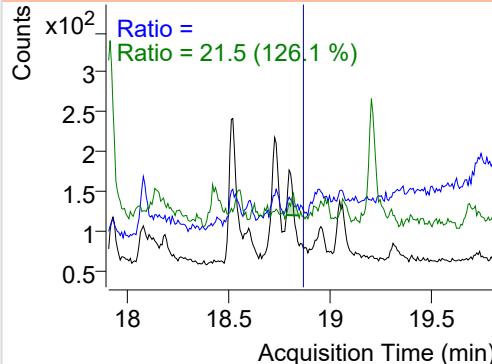


Perylene

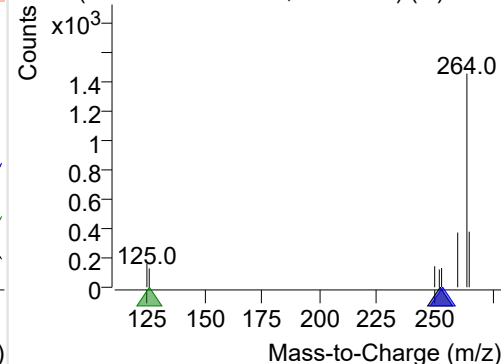
+ Selected Ion (252.0) 230112-PAHs-029.D



252.0, 253.0, 126.0

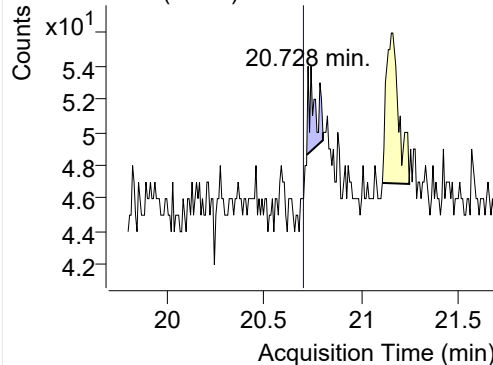


+ SIM (18.758-18.844 min, 13 scans) (**) 2301

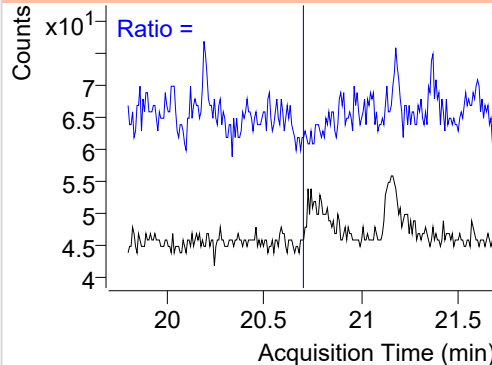


Indeno(1,2,3-c,d)pyrene

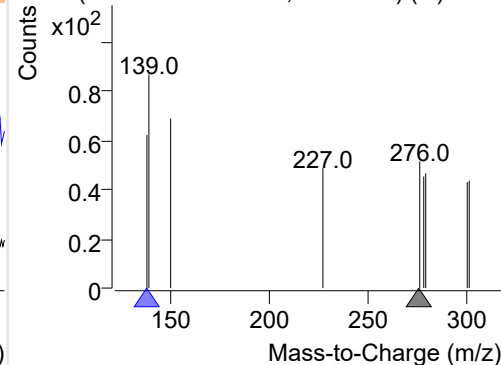
+ Selected Ion (276.0) 230112-PAHs-029.D



276.0, 138.0

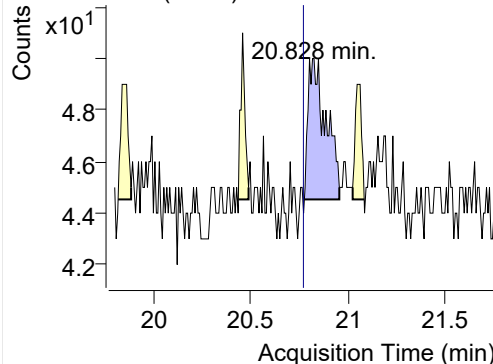


+ SIM (20.722-20.805 min, 11 scans) (**) 2301

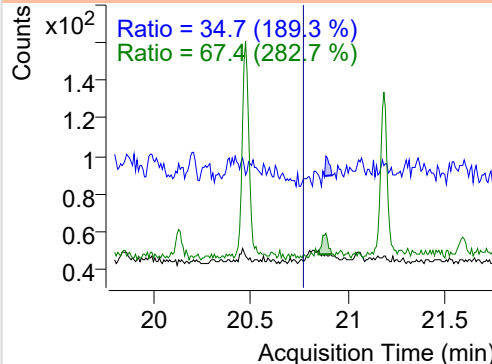


Dibenz(a,h)anthracene

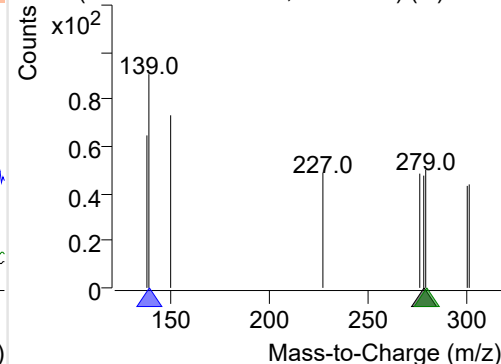
+ Selected Ion (278.0) 230112-PAHs-029.D



278.0, 139.0, 279.0

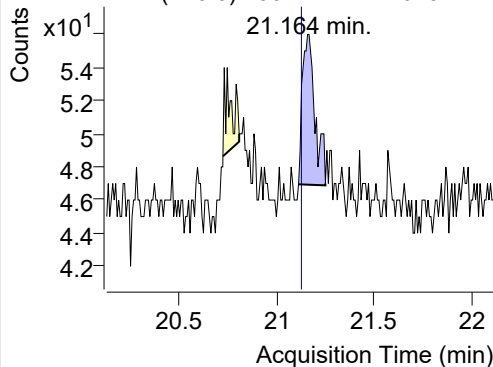


+ SIM (20.778-20.958 min, 24 scans) (**) 2301

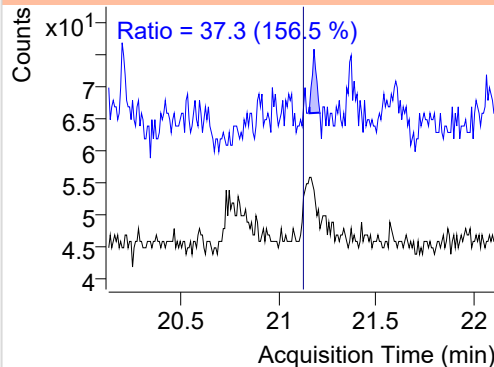


Benzo(g,h,i)perylene

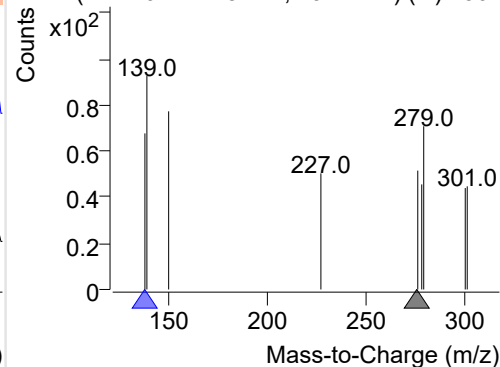
+ Selected Ion (276.0) 230112-PAHs-029.D



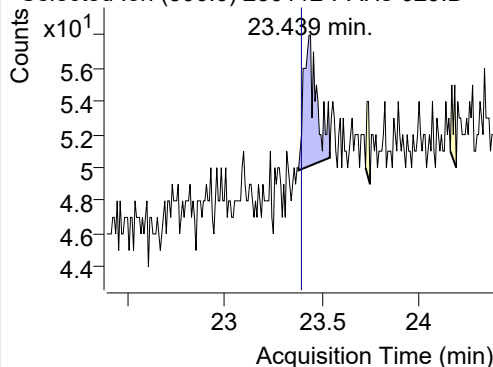
276.0, 138.0



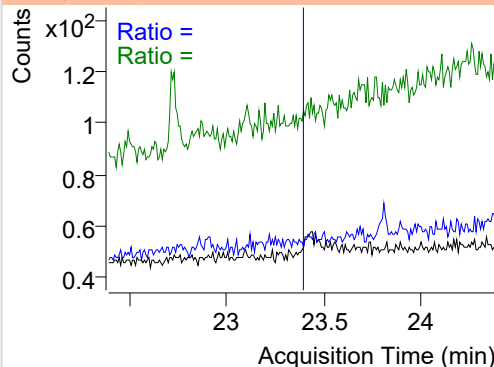
+ SIM (21.110-21.248 min, 19 scans) (**) 2301

**Coronene**

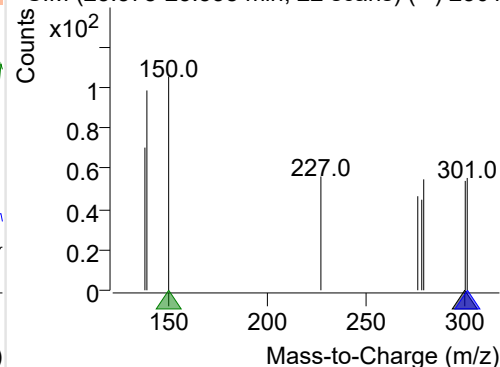
+ Selected Ion (300.0) 230112-PAHs-029.D



300.0, 301.0, 150.0



+ SIM (23.378-23.538 min, 22 scans) (**) 2301



Quantitative Analysis Sample Based Report

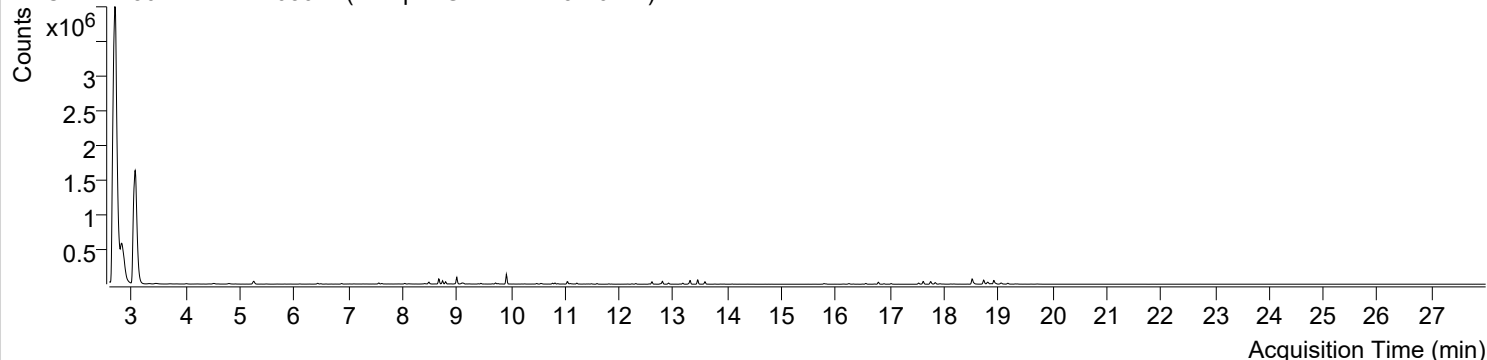


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 2:47:45	Data File	230112-PAHs-030.D
Type	Sample	Name	Sample-Gas-221219-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

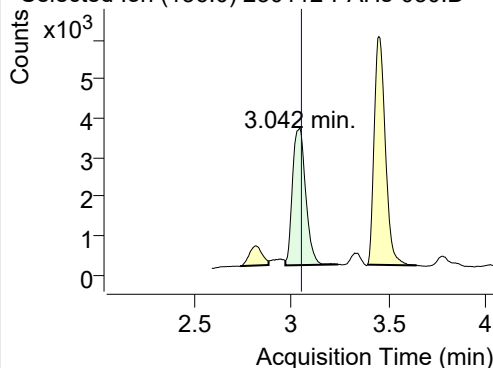
+ TIC SIM 230112-PAHs-030.D (Sample-Gas-221219-10DIL)



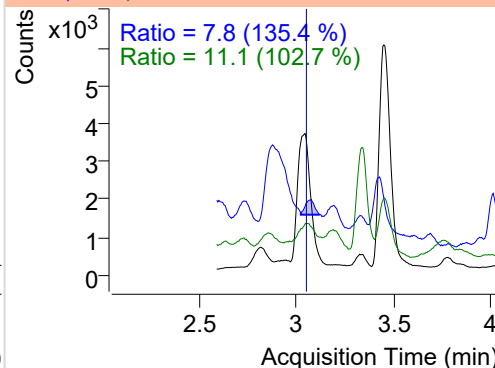
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	16546	3500.73	ND ng/ml	11.1
Naphthalene	3.063	128.0	6197759	1320091.88	ND ng/ml	12.6
Acenaphthylene	6.102	152.0	3668	1712.49	ND ng/ml	33.7
IS-D10-Acenaphthene	6.433	164.0	11260	5552.12	ND ng/ml	91.2
Acenaphthene	6.498	154.0	2498	1251.59	ND ng/ml	114.5
LSS-D10-Fluorene	7.564	176.0	11340	6678.15	ND ng/ml	91.8
Fluorene	7.617	166.0	6261	3442.39	ND ng/ml	92.9
IS-D10-Phenanthrene	9.717	188.0	18784	11305.82	ND ng/ml	18.3
Phenanthrene	9.759	178.0	7621	3656.07	ND ng/ml	17.7
Anthracene	9.916	178.0	59603	37472.07	ND ng/ml	26.8
Fluoranthene	12.467	202.0	587	386.09	ND ng/ml	
LSS-D10-Pyrene	12.911	212.0	16541	10259.79	ND ng/ml	36.8
Pyrene	12.943	202.0	924	548.03	ND ng/ml	
Benz(a)anthracene	15.746	228.0	86	50.50	ND ng/ml	74.8
IS-D12-Chrysene	15.784	240.0	13694	6593.44	ND ng/ml	19.5
Chrysene	15.822	228.0	155	88.69	ND ng/ml	46.9
Benzo(b)fluoranthene	17.925	252.0	2057	980.97	ND ng/ml	16.4
Benzo(k)fluoranthene	18.181	252.0	825	347.23	ND ng/ml	20.9
SS-D12-Benzo(e)pyrene	18.530	264.0	20596	18633.92	ND ng/ml	23.8
Benzo(e)pyrene	18.516	252.0	5924	2216.14	ND ng/ml	18.3
Benzo(a)pyrene	18.729	252.0	4306	1818.33	ND ng/ml	17.3
IS-D12-Perylene	18.808	264.0	12367	11525.50	ND ng/ml	20.9
Perylene	18.801	252.0	3873	1506.48	ND ng/ml	14.8
Indeno(1,2,3-c,d)pyrene	20.797	276.0	119	32.73	ND ng/ml	
Dibenz(a,h)anthracene	20.797	278.0	61	12.88	ND ng/ml	
Benzo(g,h,i)perylene	21.179	276.0	197	32.13	ND ng/ml	20.6
Coronene	23.431	300.0	40	8.93	ND ng/ml	

IS-D8-Naphthalene

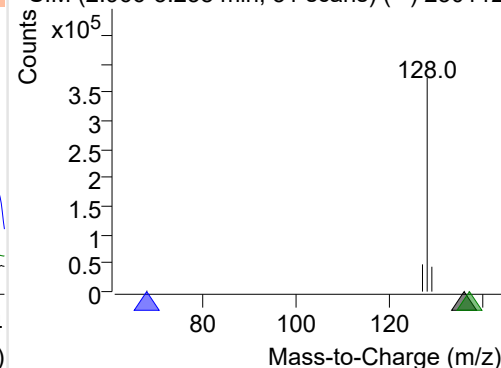
+ Selected Ion (136.0) 230112-PAHs-030.D



136.0, 68.0, 137.0

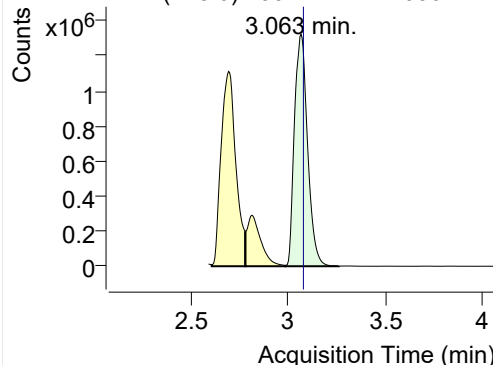


+ SIM (2.966-3.238 min, 51 scans) (**) 230112

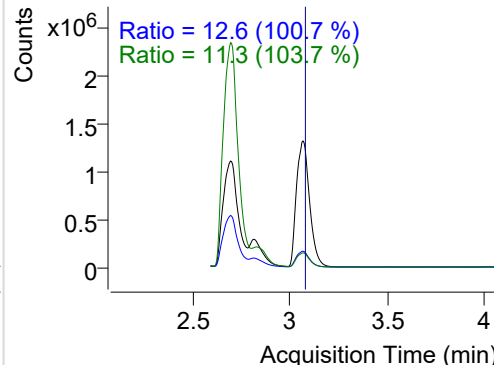


Naphthalene

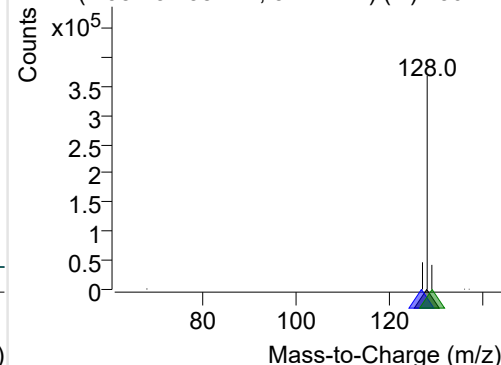
+ Selected Ion (128.0) 230112-PAHs-030.D



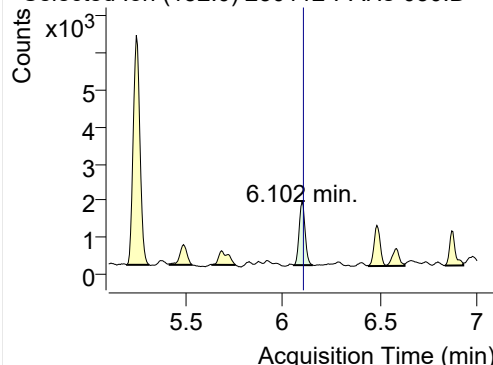
128.0, 127.0, 129.0



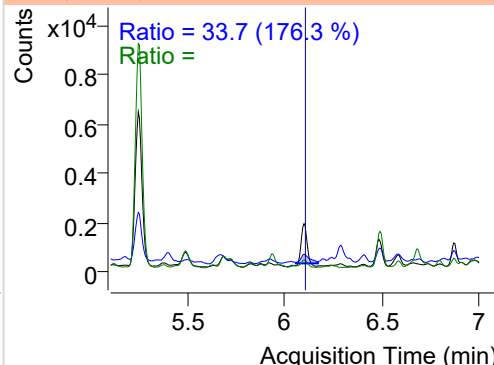
+ SIM (2.982-3.258 min, 52 scans) (**) 230112

**Acenaphthylene**

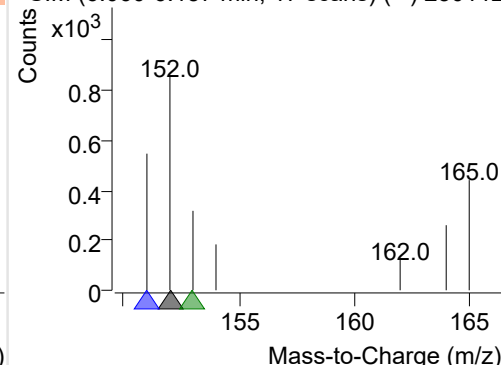
+ Selected Ion (152.0) 230112-PAHs-030.D



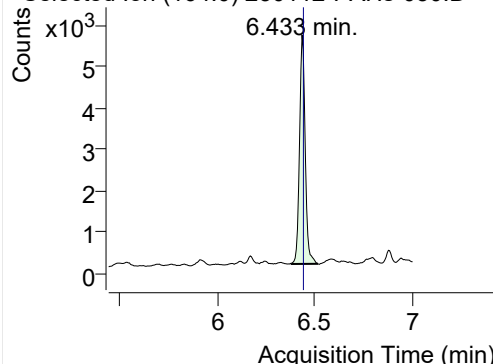
152.0, 151.0, 153.0



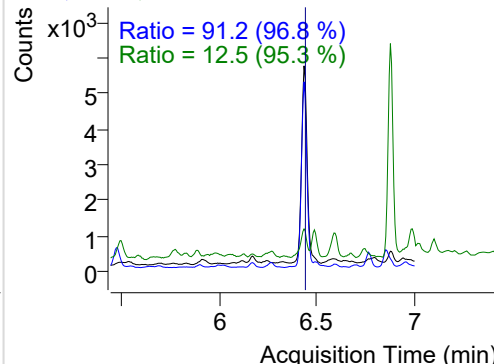
+ SIM (6.060-6.157 min, 17 scans) (**) 230112

**IS-D10-Acenaphthene**

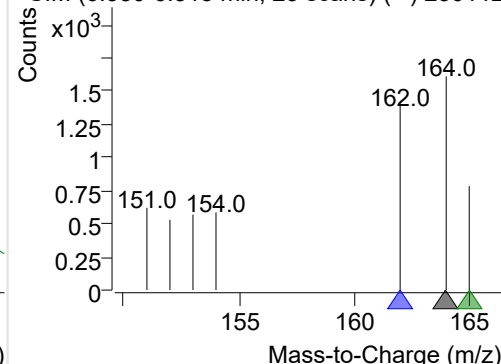
+ Selected Ion (164.0) 230112-PAHs-030.D



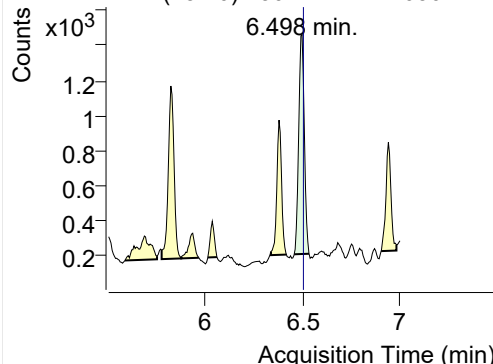
164.0, 162.0, 165.0



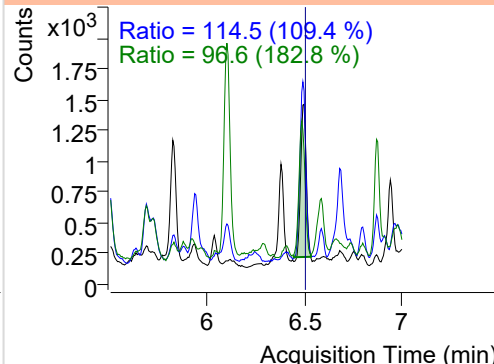
+ SIM (6.380-6.515 min, 23 scans) (**) 230112

**Acenaphthene**

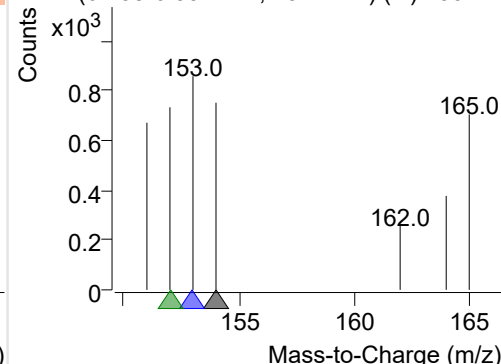
+ Selected Ion (154.0) 230112-PAHs-030.D



154.0, 153.0, 152.0

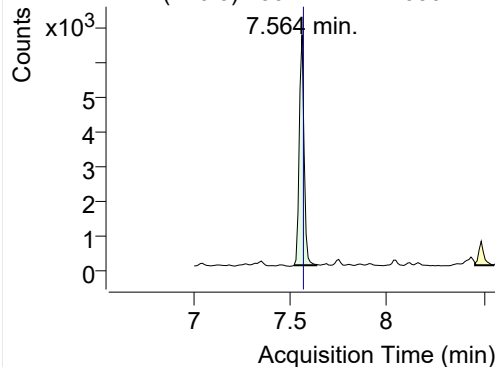


+ SIM (6.458-6.534 min, 13 scans) (**) 230112

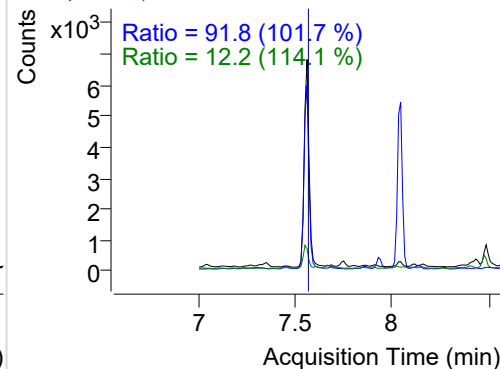


LSS-D10-Fluorene

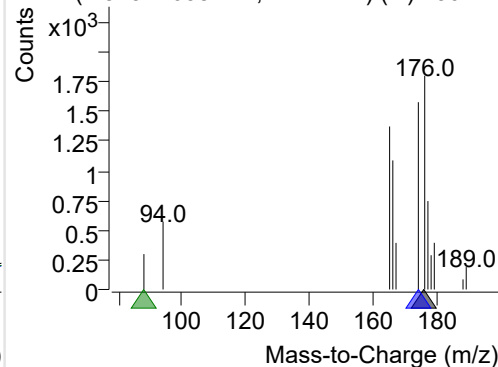
+ Selected Ion (176.0) 230112-PAHs-030.D



176.0, 174.0, 88.0

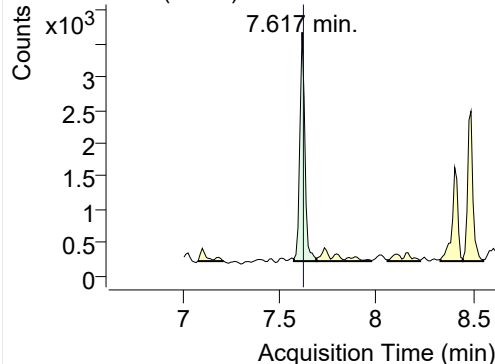


+ SIM (7.523-7.638 min, 11 scans) (**) 230112

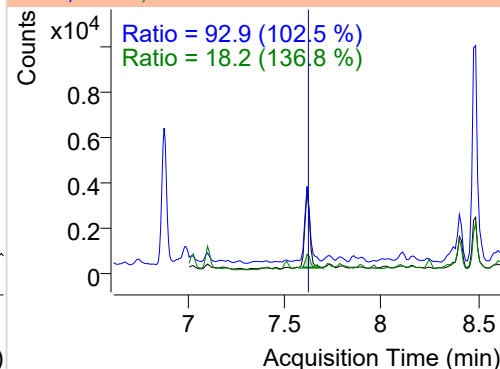


Fluorene

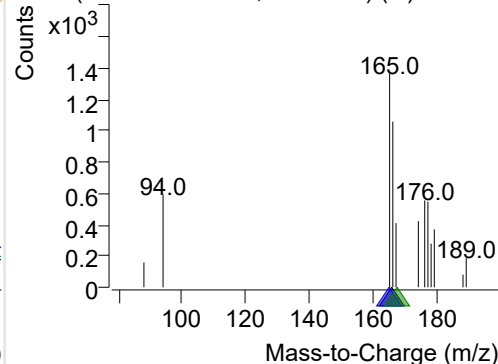
+ Selected Ion (166.0) 230112-PAHs-030.D



166.0, 165.0, 167.0

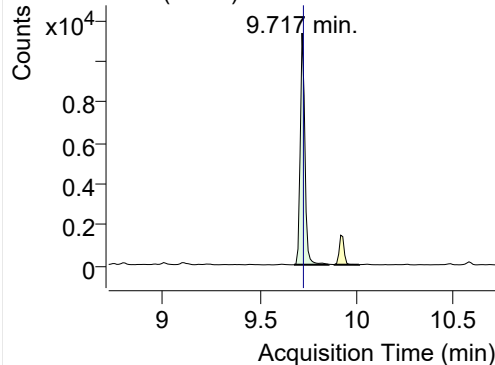


+ SIM (7.575-7.690 min, 12 scans) (**) 230112

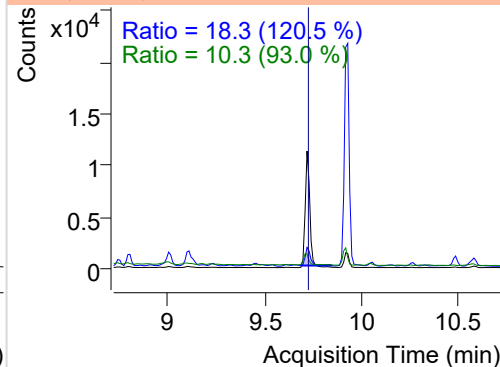


IS-D10-Phenanthrene

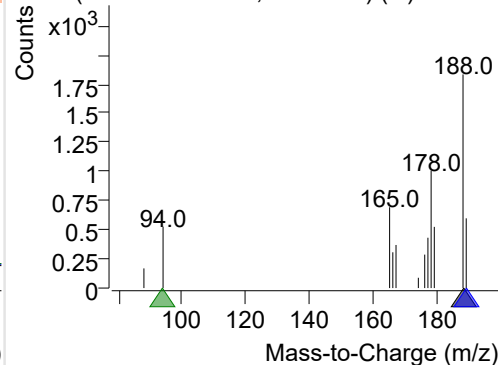
+ Selected Ion (188.0) 230112-PAHs-030.D



188.0, 189.0, 94.0

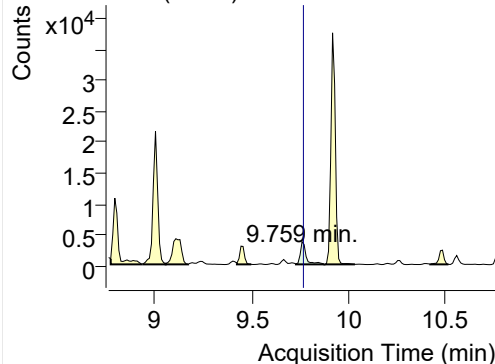


+ SIM (9.675-9.853 min, 17 scans) (**) 230112

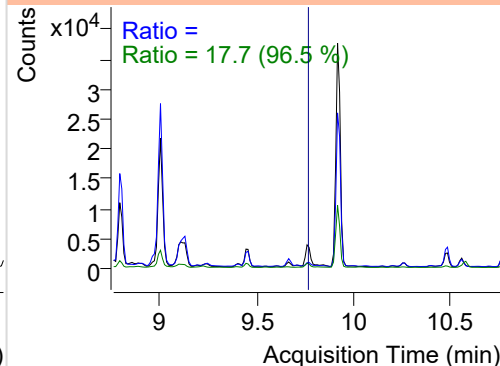


Phenanthrene

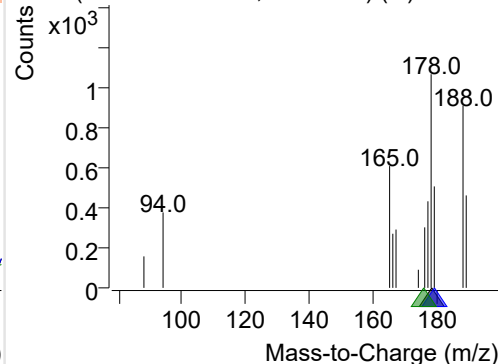
+ Selected Ion (178.0) 230112-PAHs-030.D



178.0, 179.0, 176.0

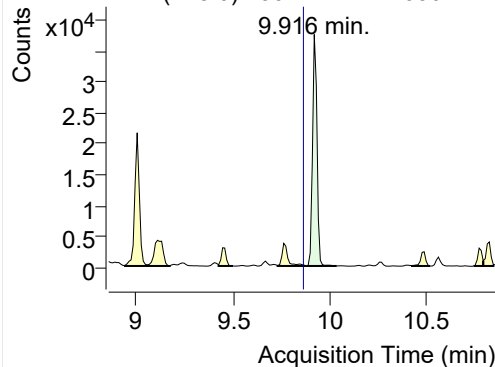


+ SIM (9.727-9.874 min, 15 scans) (**) 230112

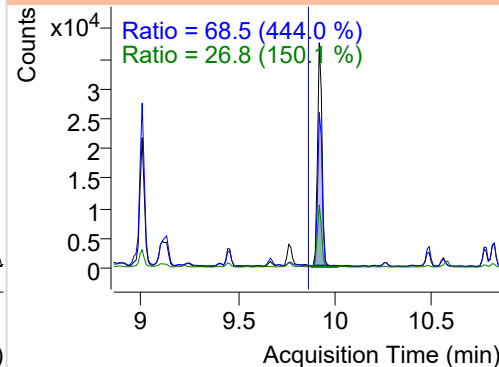


Anthracene

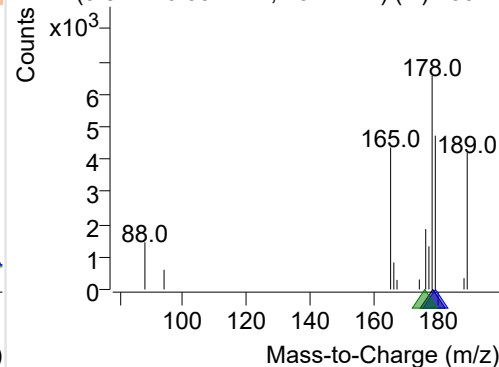
+ Selected Ion (178.0) 230112-PAHs-030.D



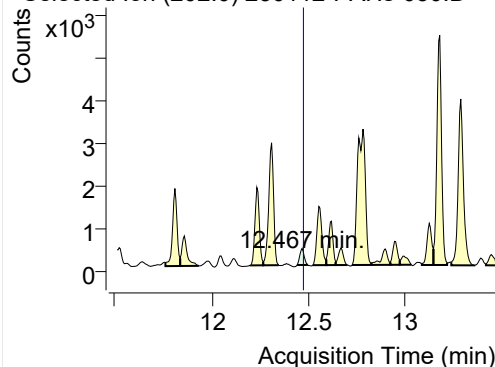
178.0, 179.0, 176.0



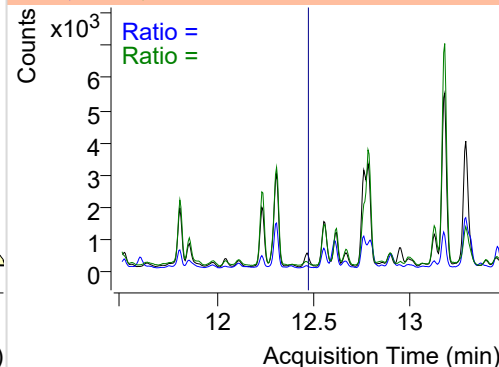
+ SIM (9.874-10.031 min, 15 scans) (**) 23011

**Fluoranthene**

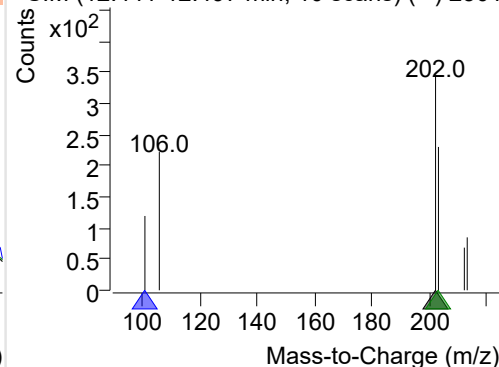
+ Selected Ion (202.0) 230112-PAHs-030.D



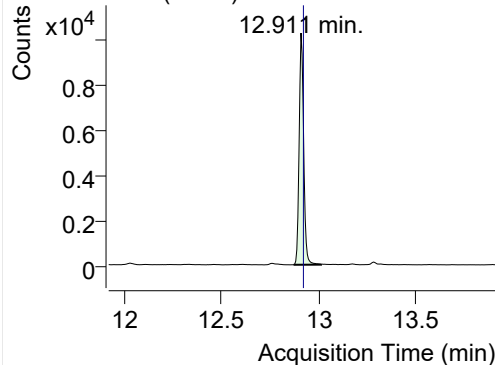
202.0, 101.0, 203.0



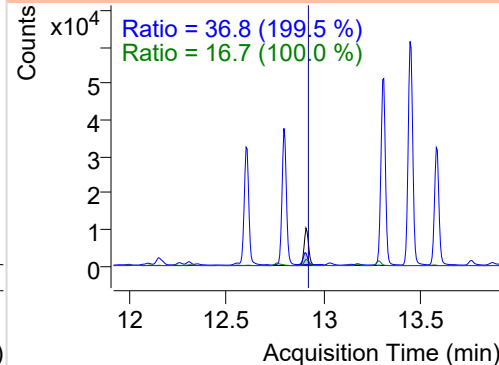
+ SIM (12.441-12.497 min, 10 scans) (**) 23011

**LSS-D10-Pyrene**

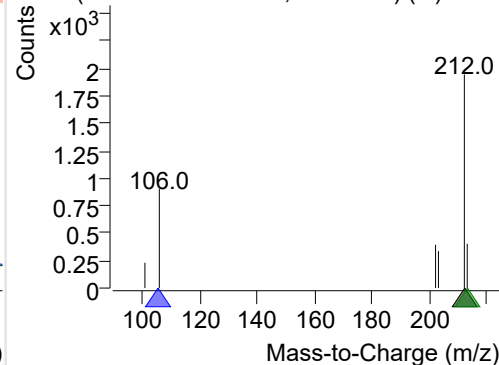
+ Selected Ion (212.0) 230112-PAHs-030.D



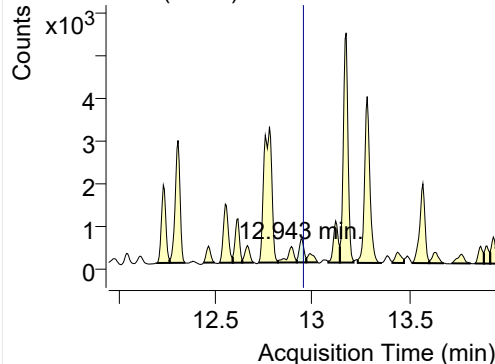
212.0, 106.0, 213.0



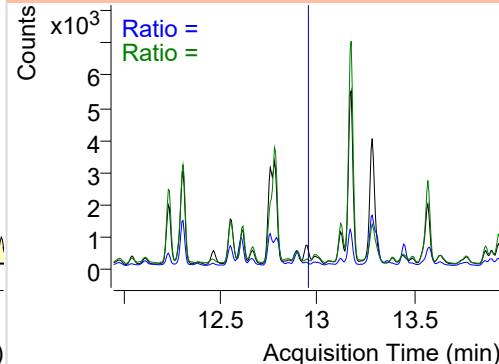
+ SIM (12.873-13.014 min, 27 scans) (**) 23011

**Pyrene**

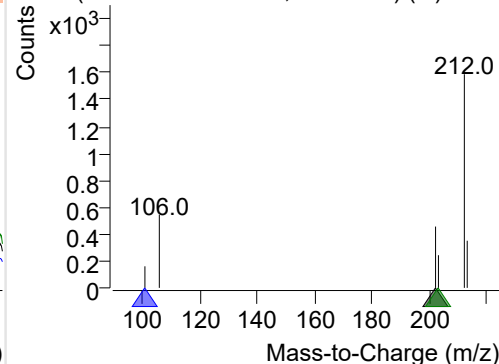
+ Selected Ion (202.0) 230112-PAHs-030.D



202.0, 101.0, 203.0



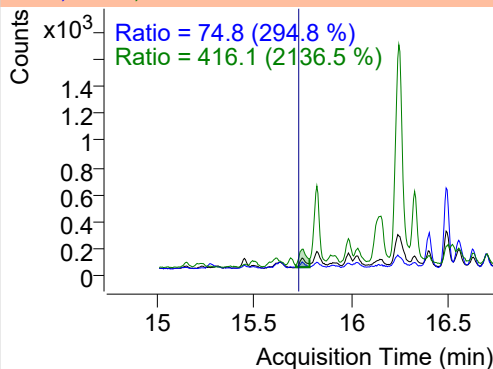
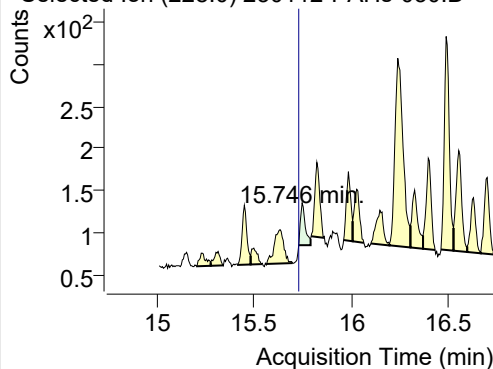
+ SIM (12.922-12.971 min, 10 scans) (**) 23011



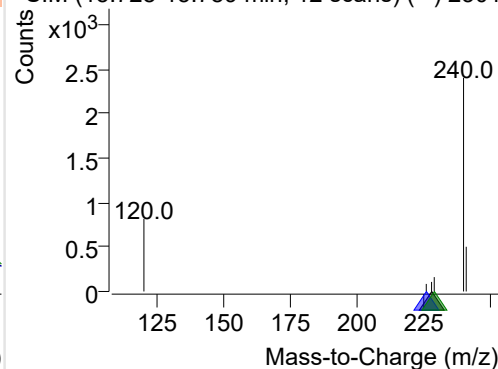
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-030.D

228.0, 226.0, 229.0

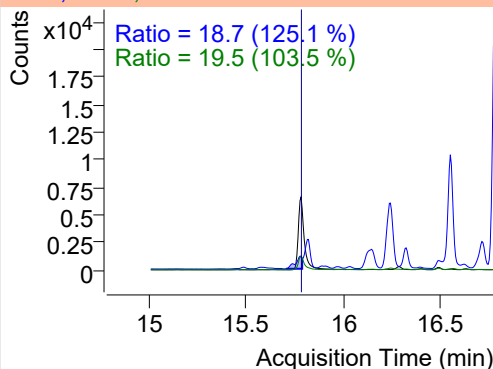
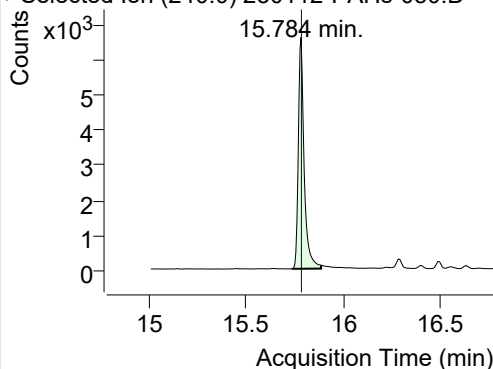


+ SIM (15.728-15.789 min, 12 scans) (**) 2301

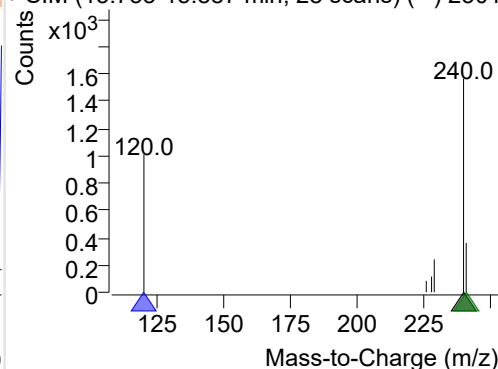
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-030.D

240.0, 120.0, 241.0

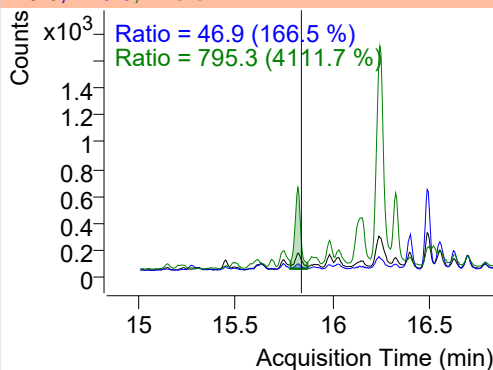
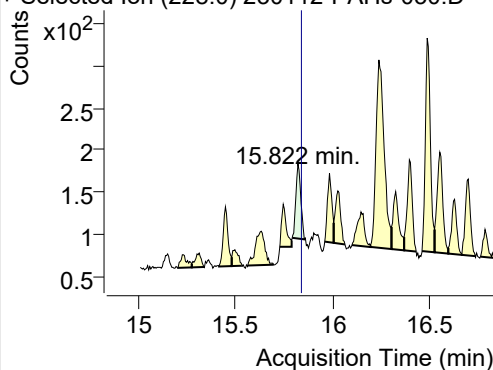


+ SIM (15.735-15.887 min, 28 scans) (**) 2301

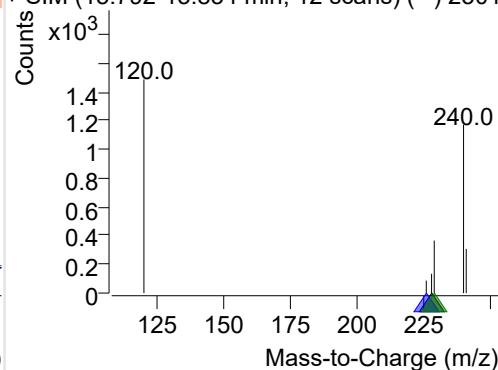
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-030.D

228.0, 226.0, 229.0

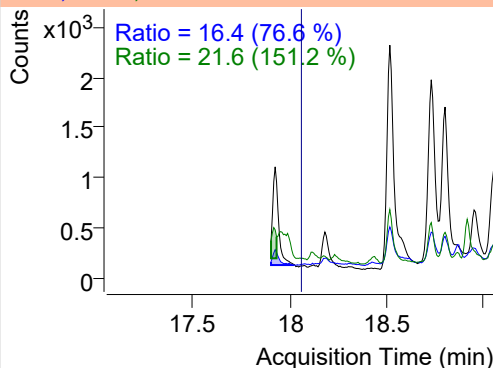
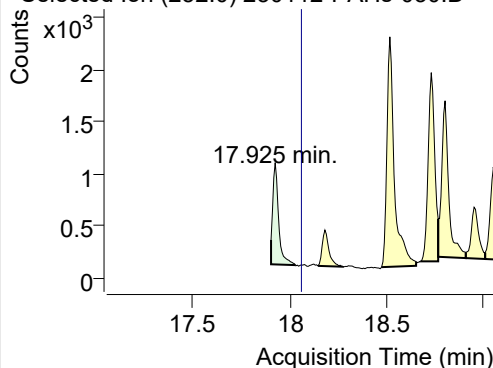


+ SIM (15.792-15.854 min, 12 scans) (**) 2301

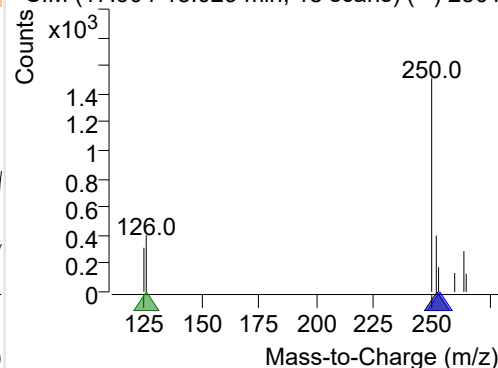
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-030.D

252.0, 253.0, 126.0

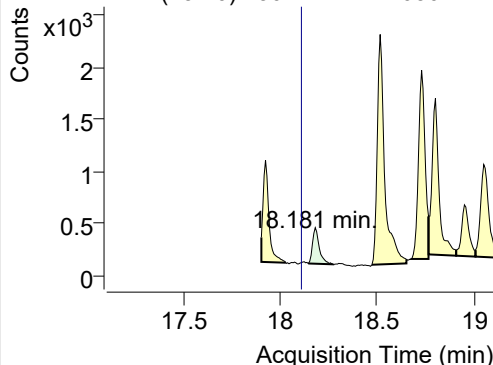


+ SIM (17.904-18.029 min, 18 scans) (**) 2301

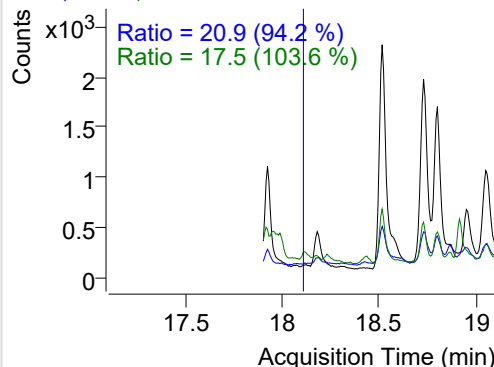


Benzo(k)fluoranthene

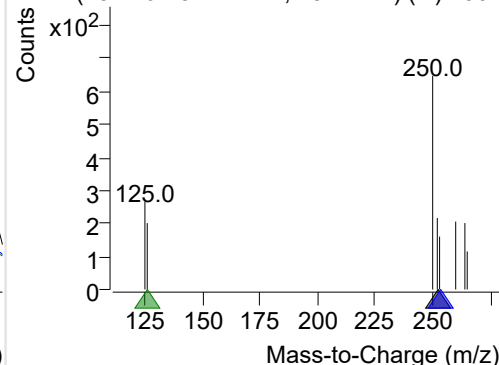
+ Selected Ion (252.0) 230112-PAHs-030.D



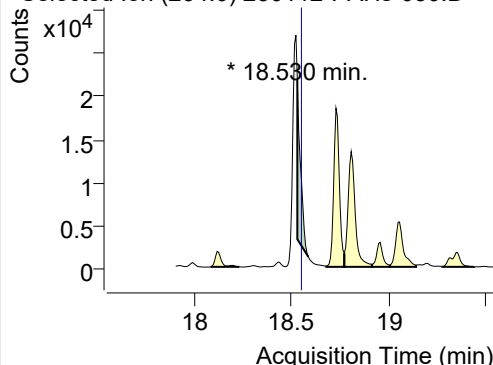
252.0, 253.0, 126.0



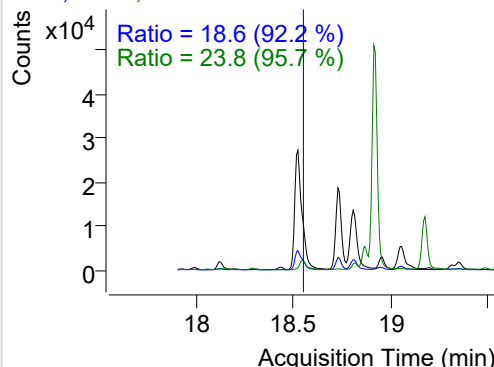
+ SIM (18.146-18.274 min, 18 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

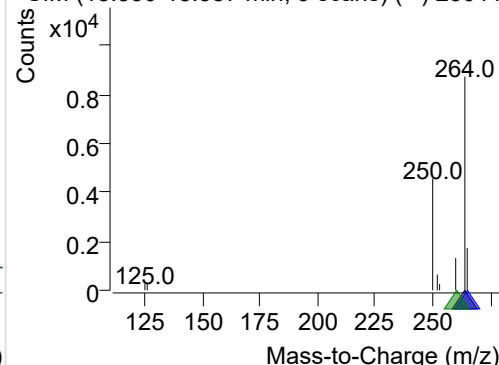
+ Selected Ion (264.0) 230112-PAHs-030.D



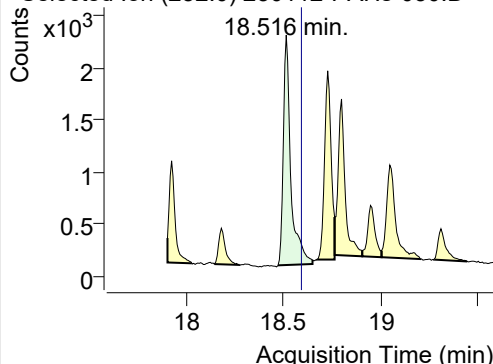
264.0, 265.0, 260.0



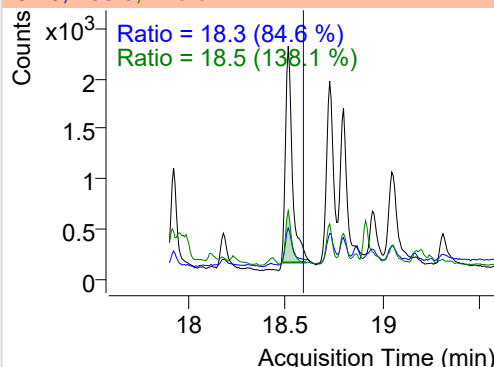
+ SIM (18.530-18.587 min, 9 scans) (**) 23011

**Benzo(e)pyrene**

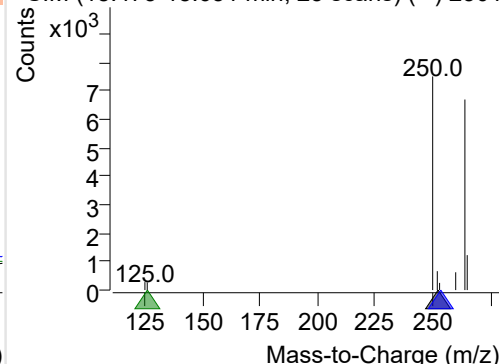
+ Selected Ion (252.0) 230112-PAHs-030.D



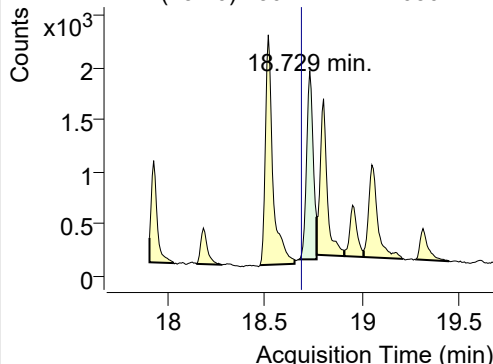
252.0, 253.0, 126.0



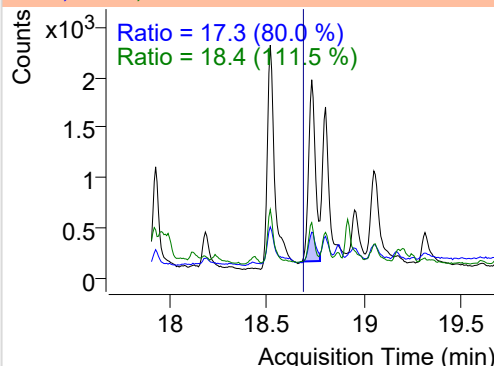
+ SIM (18.473-18.651 min, 25 scans) (**) 2301

**Benzo(a)pyrene**

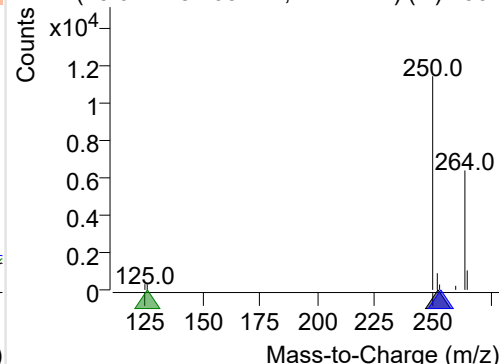
+ Selected Ion (252.0) 230112-PAHs-030.D



252.0, 253.0, 126.0

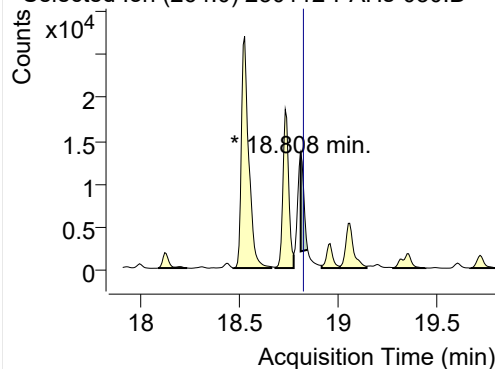


+ SIM (18.672-18.765 min, 14 scans) (**) 2301

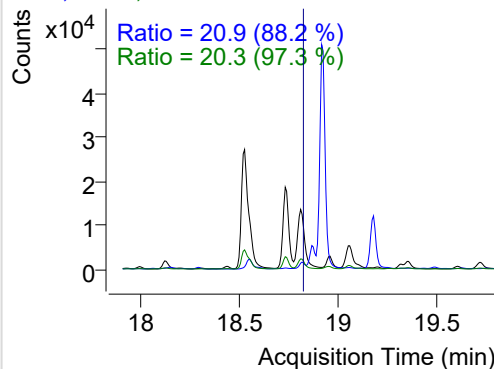


IS-D12-Perylene

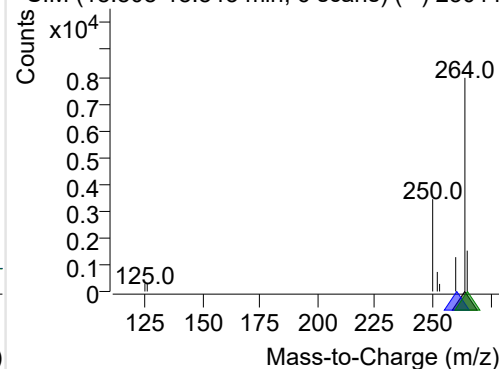
+ Selected Ion (264.0) 230112-PAHs-030.D



264.0, 260.0, 265.0

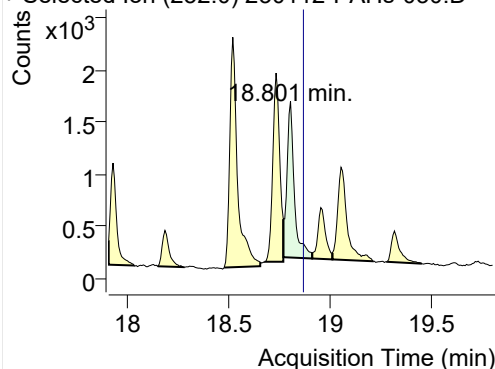


+ SIM (18.808-18.843 min, 6 scans) (**) 23011

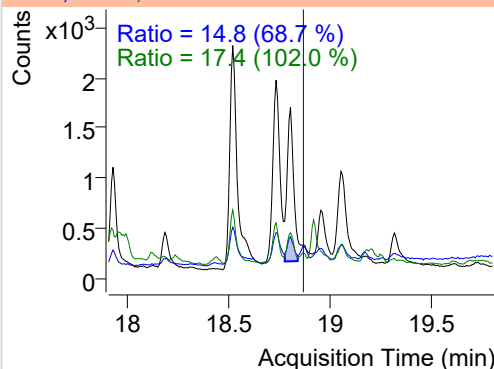


Perylene

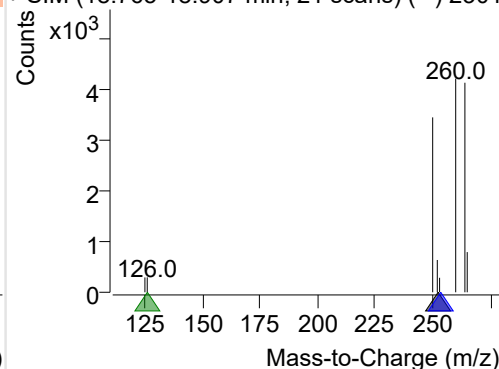
+ Selected Ion (252.0) 230112-PAHs-030.D



252.0, 253.0, 126.0

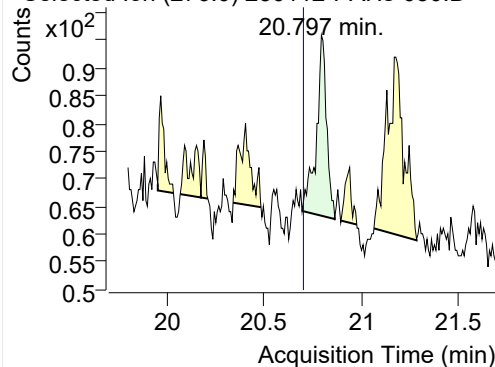


+ SIM (18.765-18.907 min, 21 scans) (**) 2301

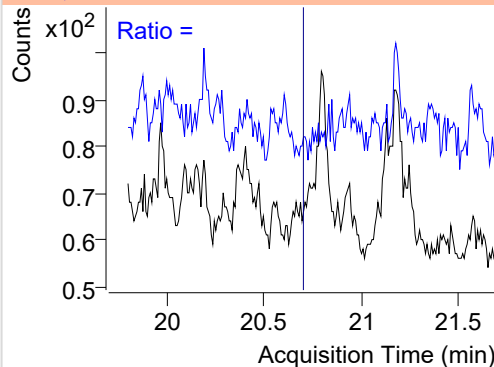


Indeno(1,2,3-c,d)pyrene

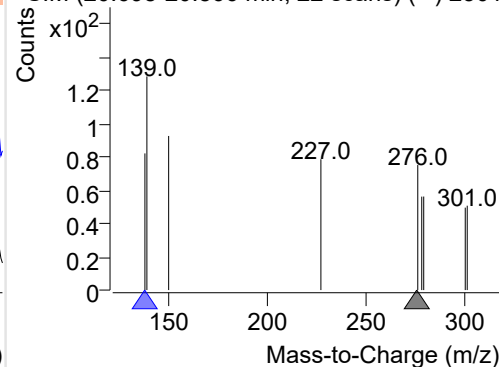
+ Selected Ion (276.0) 230112-PAHs-030.D



276.0, 138.0

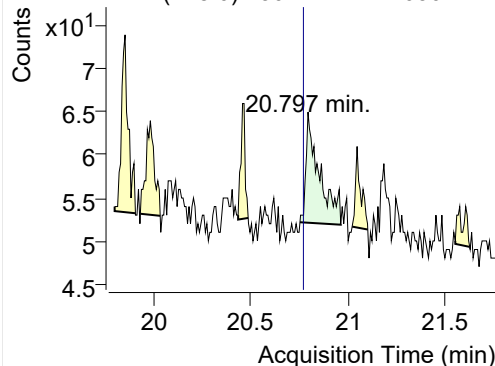


+ SIM (20.698-20.866 min, 22 scans) (**) 2301

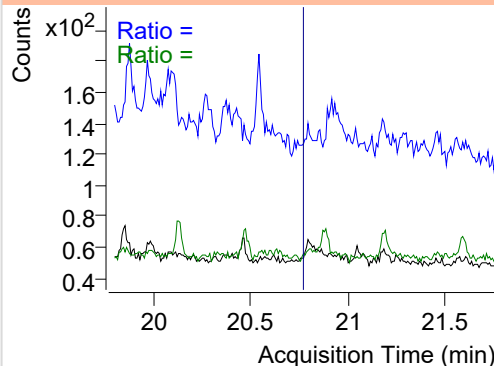


Dibenz(a,h)anthracene

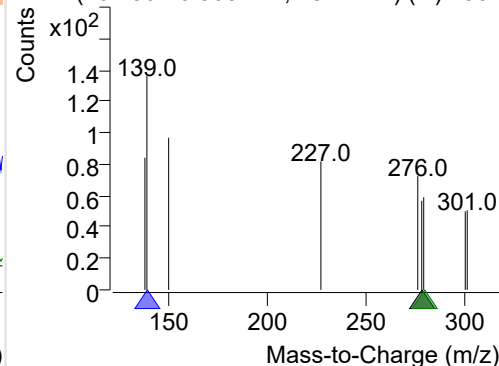
+ Selected Ion (278.0) 230112-PAHs-030.D



278.0, 139.0, 279.0

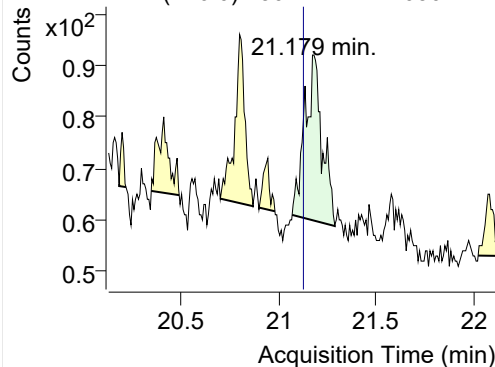


+ SIM (20.756-20.965 min, 28 scans) (**) 2301

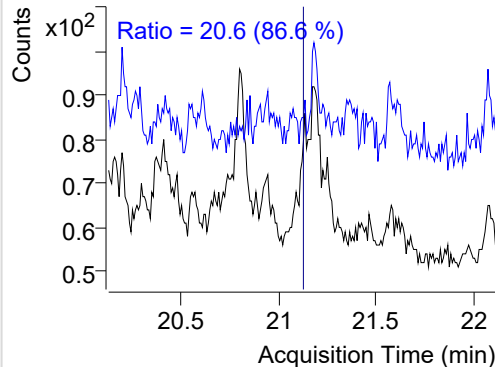


Benzo(g,h,i)perylene

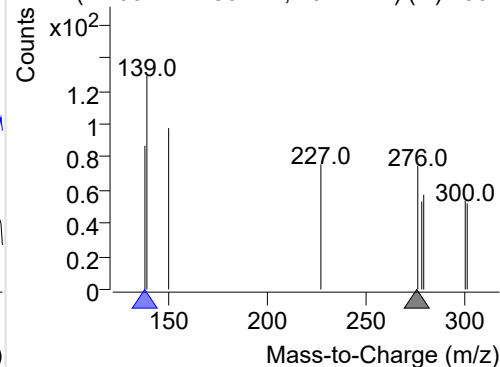
+ Selected Ion (276.0) 230112-PAHs-030.D



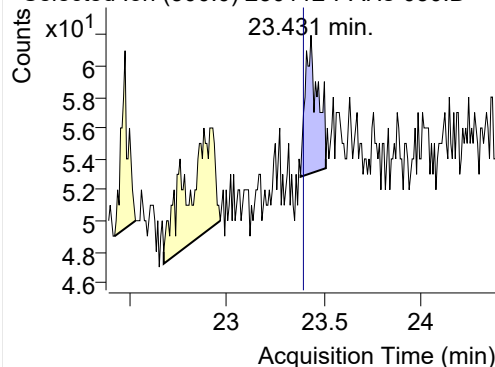
276.0, 138.0



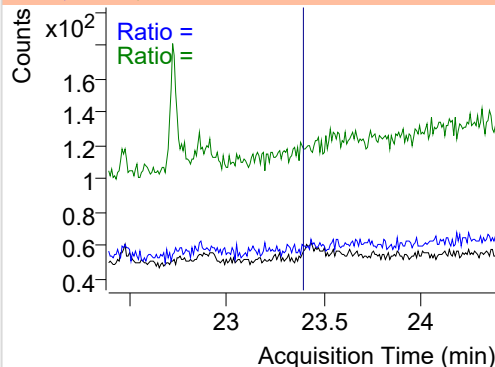
+ SIM (21.067-21.286 min, 29 scans) (**) 2301

**Coronene**

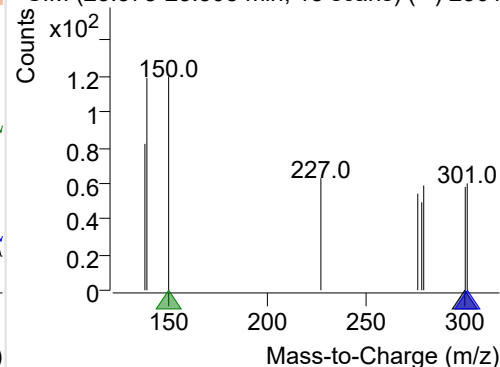
+ Selected Ion (300.0) 230112-PAHs-030.D



300.0, 301.0, 150.0



+ SIM (23.378-23.508 min, 18 scans) (**) 2301



Quantitative Analysis Sample Based Report

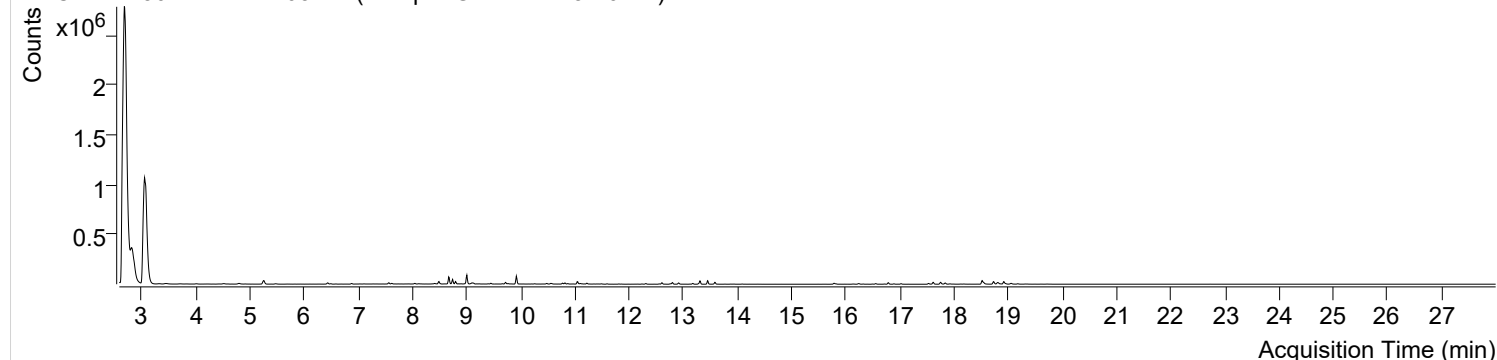


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 3:18:56	Data File	230112-PAHs-031.D
Type	Sample	Name	Sample-Gas-221225-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

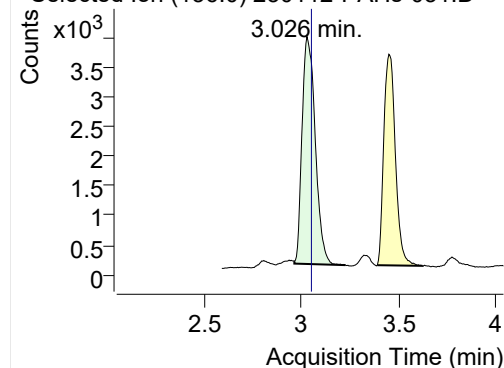
+ TIC SIM 230112-PAHs-031.D (Sample-Gas-221225-10DIL)



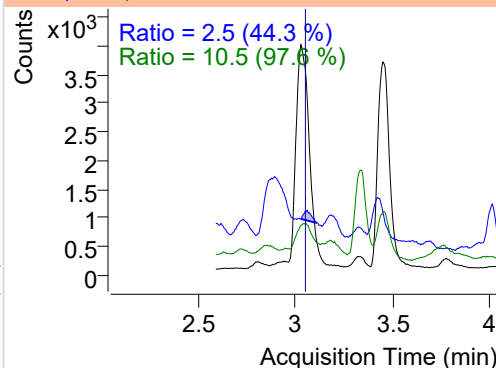
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.026	136.0	18066	3828.28	ND ng/ml	10.5
Naphthalene	3.053	128.0	4194779	858913.00	ND ng/ml	12.7
Acenaphthylene	6.102	152.0	744	305.00	ND ng/ml	
IS-D10-Acenaphthene	6.434	164.0	11977	6049.19	ND ng/ml	93.9
Acenaphthene	6.493	154.0	1800	902.08	ND ng/ml	121.9
LSS-D10-Fluorene	7.564	176.0	10016	5682.62	ND ng/ml	91.3
Fluorene	7.617	166.0	5161	2844.27	ND ng/ml	100.7
IS-D10-Phenanthrene	9.717	188.0	20554	12295.21	ND ng/ml	16.7
Phenanthrene	9.759	178.0	5068	2250.30	ND ng/ml	15.1
Anthracene	9.917	178.0	33638	21612.30	ND ng/ml	26.1
Fluoranthene	12.467	202.0	356	197.23	ND ng/ml	
LSS-D10-Pyrene	12.911	212.0	14511	8508.74	ND ng/ml	25.3
Pyrene	12.944	202.0	477	265.64	ND ng/ml	
Benz(a)anthracene	15.746	228.0	85	39.25	ND ng/ml	53.3
IS-D12-Chrysene	15.784	240.0	14794	7034.89	ND ng/ml	19.4
Chrysene	15.822	228.0	143	72.04	ND ng/ml	40.5
Benzo(b)fluoranthene	17.925	252.0	1258	578.69	ND ng/ml	13.5
Benzo(k)fluoranthene	18.181	252.0	580	244.26	ND ng/ml	22.7
SS-D12-Benzo(e)pyrene	18.530	264.0	18024	10372.94	ND ng/ml	27.8
Benzo(e)pyrene	18.516	252.0	3666	1343.93	ND ng/ml	20.4
Benzo(a)pyrene	18.730	252.0	2623	1055.84	ND ng/ml	15.3
IS-D12-Perylene	18.808	264.0	10580	7469.50	ND ng/ml	24.8
Perylene	18.801	252.0	2756	963.36	ND ng/ml	8.7
Indeno(1,2,3-c,d)pyrene	20.805	276.0	70	21.73	ND ng/ml	19.9
Dibenz(a,h)anthracene	20.812	278.0	23	9.63	ND ng/ml	151.9
Benzo(g,h,i)perylene	21.187	276.0	122	22.43	ND ng/ml	21.6
Coronene	23.424	300.0	33	8.93	ND ng/ml	

IS-D8-Naphthalene

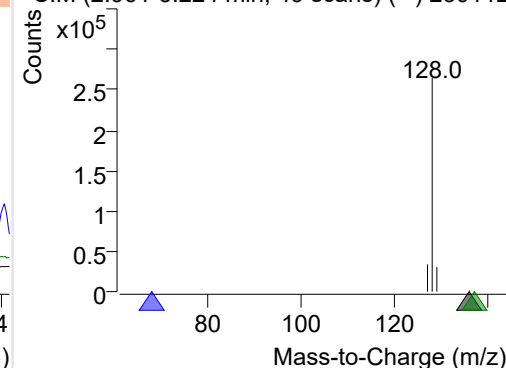
+ Selected Ion (136.0) 230112-PAHs-031.D



136.0, 68.0, 137.0

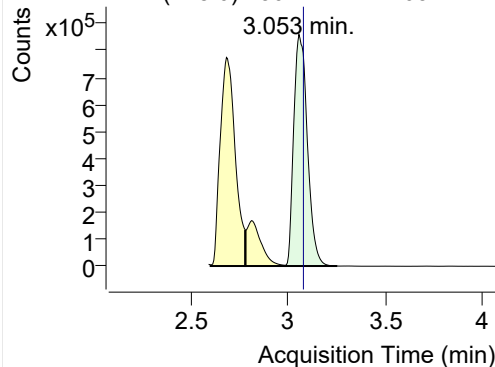


+ SIM (2.961-3.224 min, 49 scans) (**) 230112

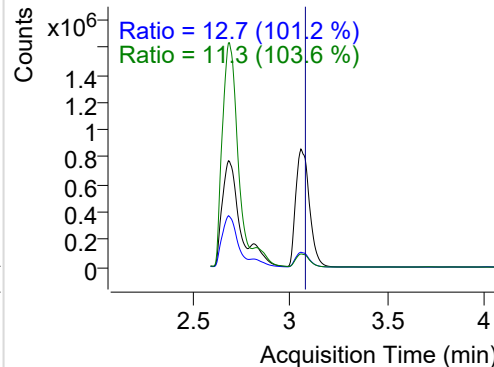


Naphthalene

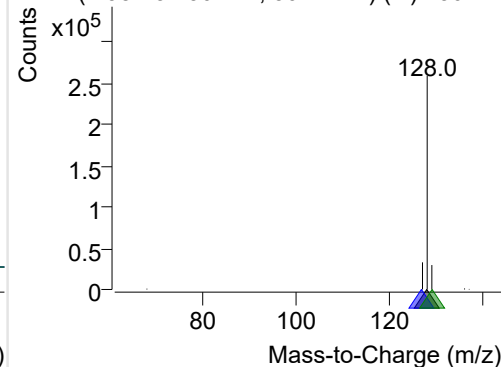
+ Selected Ion (128.0) 230112-PAHs-031.D



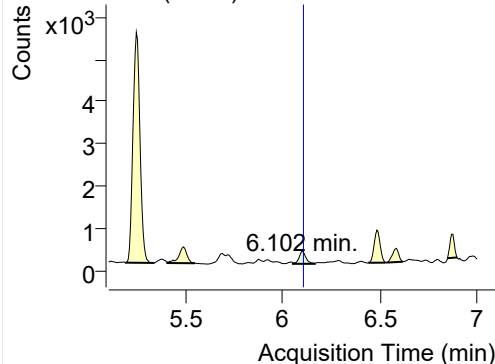
128.0, 127.0, 129.0



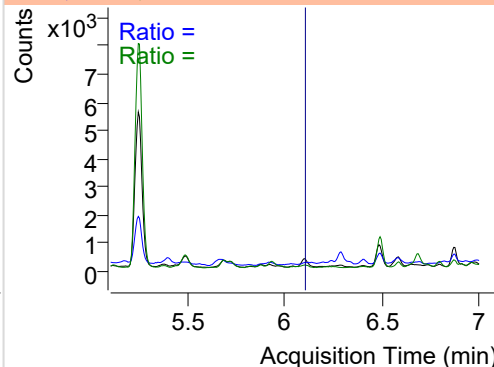
+ SIM (2.982-3.250 min, 50 scans) (**) 230112

**Acenaphthylene**

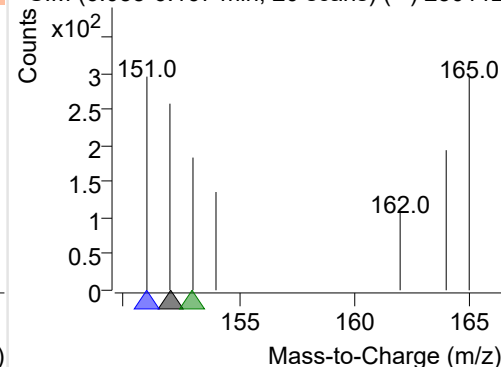
+ Selected Ion (152.0) 230112-PAHs-031.D



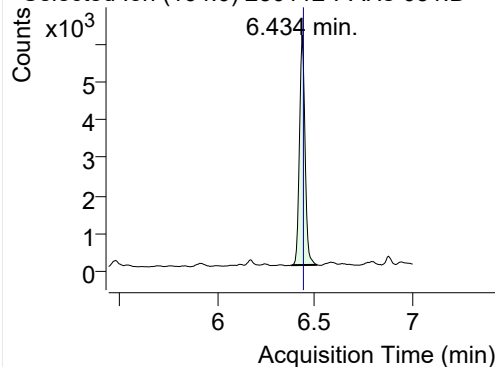
152.0, 151.0, 153.0



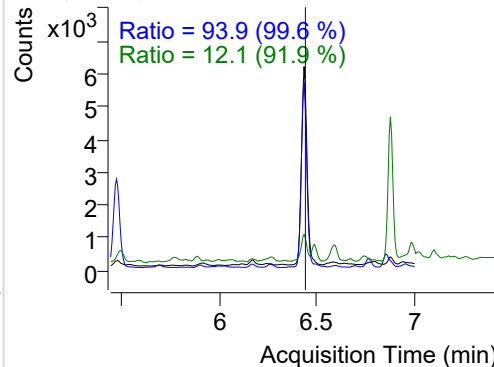
+ SIM (6.055-6.167 min, 20 scans) (**) 230112

**IS-D10-Acenaphthene**

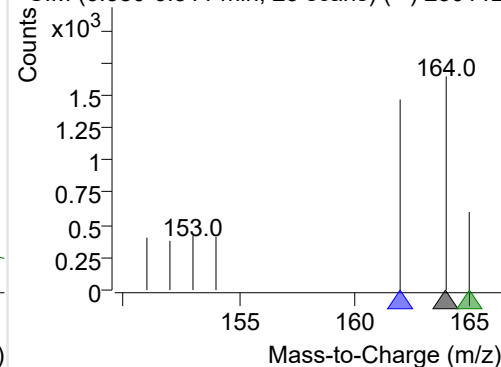
+ Selected Ion (164.0) 230112-PAHs-031.D



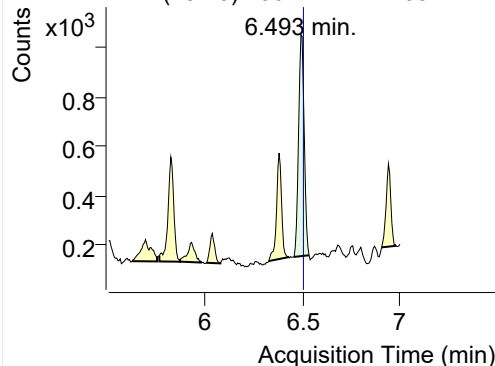
164.0, 162.0, 165.0



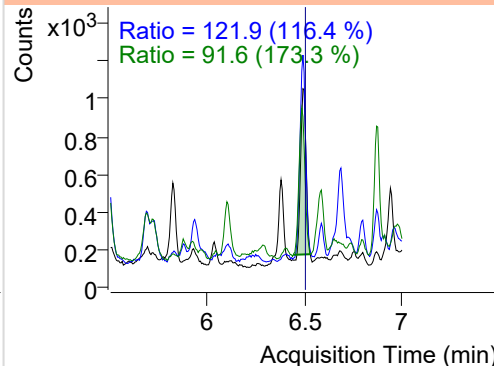
+ SIM (6.380-6.511 min, 23 scans) (**) 230112

**Acenaphthene**

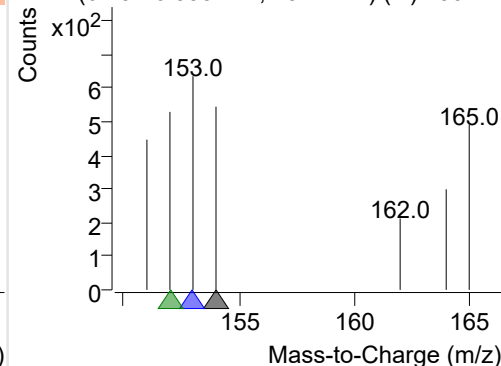
+ Selected Ion (154.0) 230112-PAHs-031.D



154.0, 153.0, 152.0

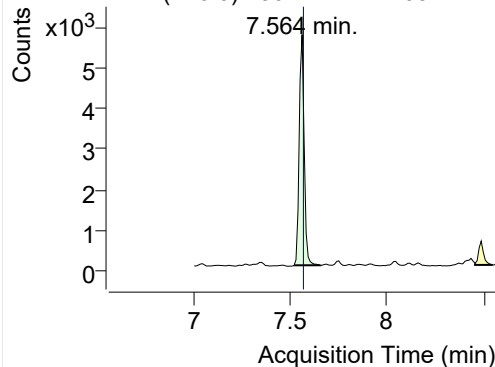


+ SIM (6.457-6.535 min, 13 scans) (**) 230112

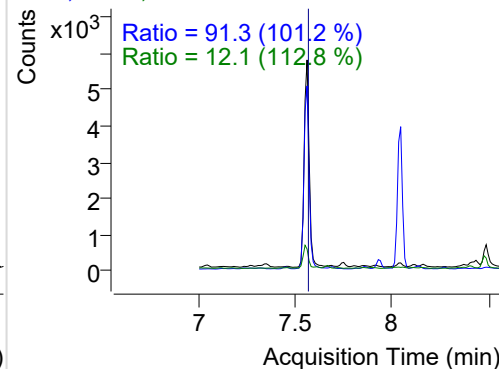


LSS-D10-Fluorene

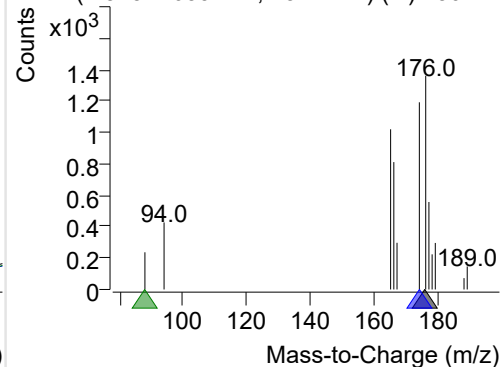
+ Selected Ion (176.0) 230112-PAHs-031.D



176.0, 174.0, 88.0

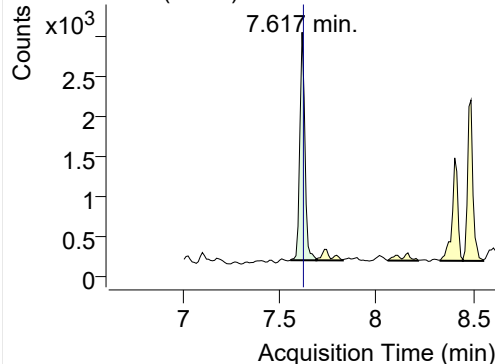


+ SIM (7.523-7.659 min, 13 scans) (**) 230112

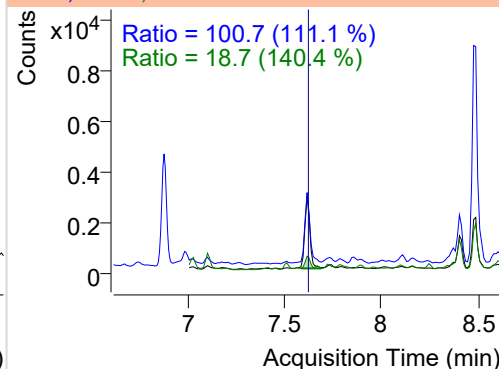


Fluorene

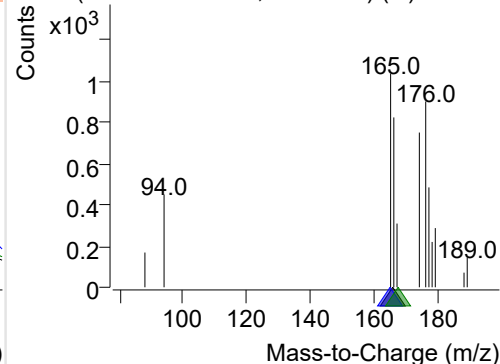
+ Selected Ion (166.0) 230112-PAHs-031.D



166.0, 165.0, 167.0

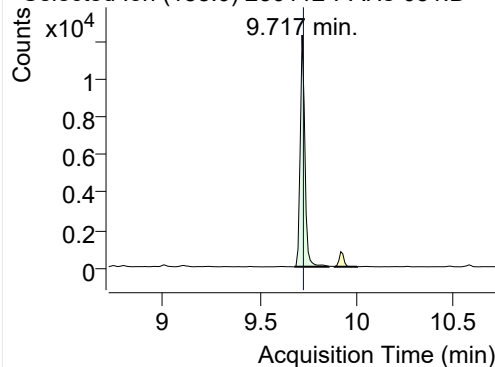


+ SIM (7.556-7.690 min, 13 scans) (**) 230112

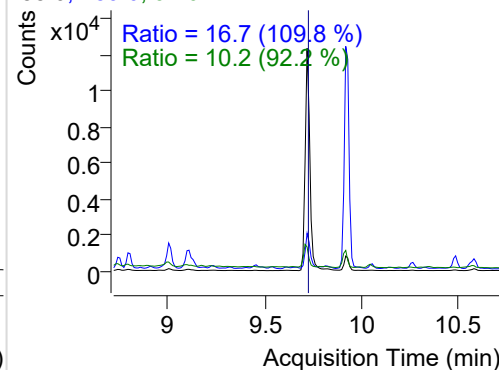


IS-D10-Phenanthrene

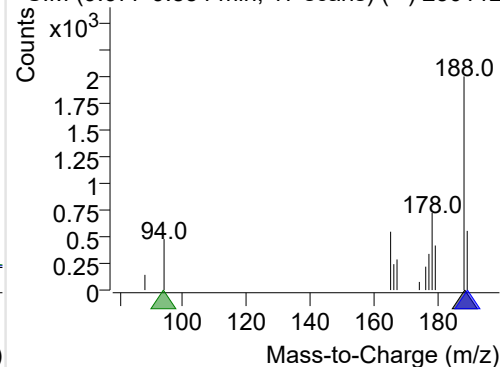
+ Selected Ion (188.0) 230112-PAHs-031.D



188.0, 189.0, 94.0

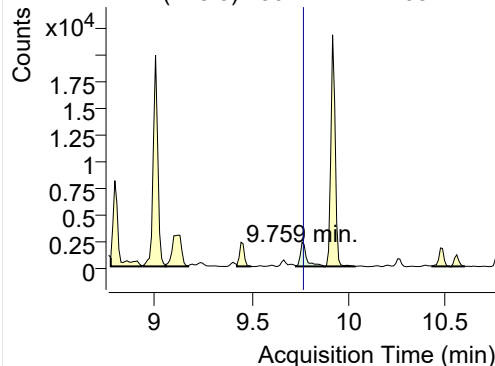


+ SIM (9.677-9.854 min, 17 scans) (**) 230112

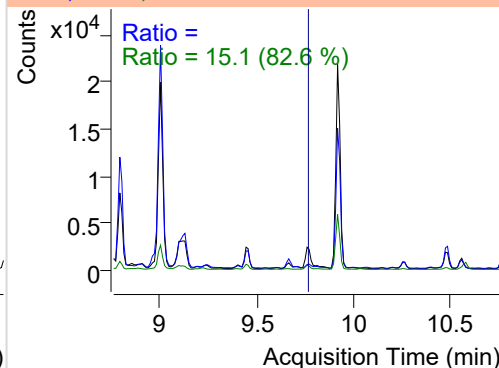


Phenanthrene

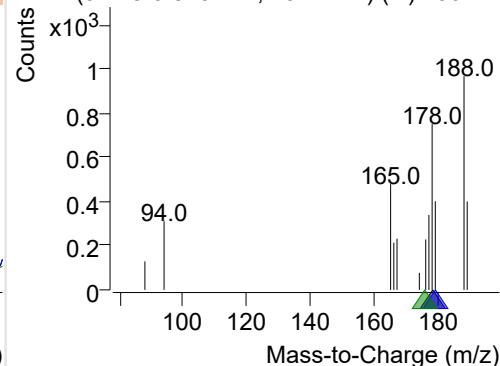
+ Selected Ion (178.0) 230112-PAHs-031.D



178.0, 179.0, 176.0

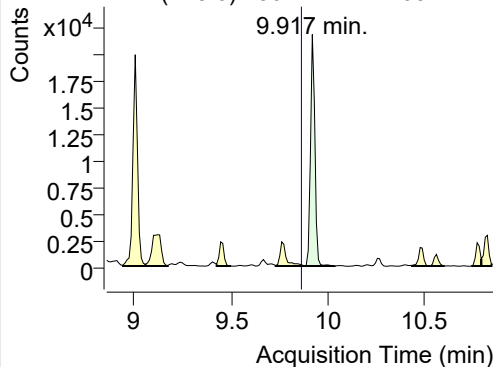


+ SIM (9.728-9.875 min, 15 scans) (**) 230112

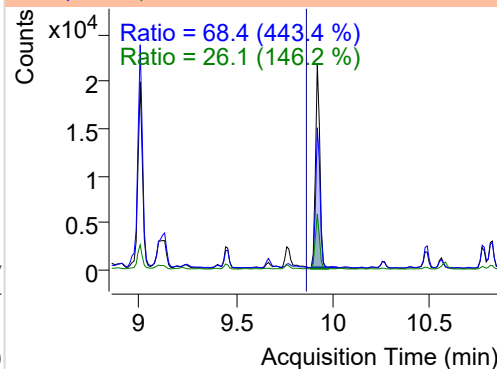


Anthracene

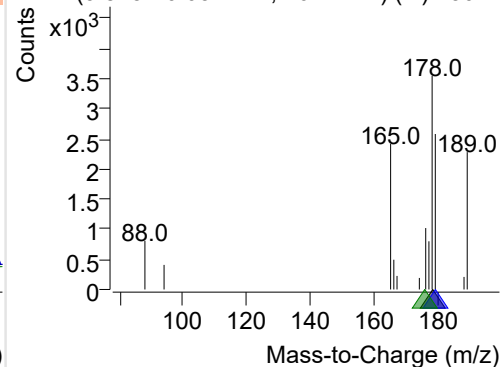
+ Selected Ion (178.0) 230112-PAHs-031.D



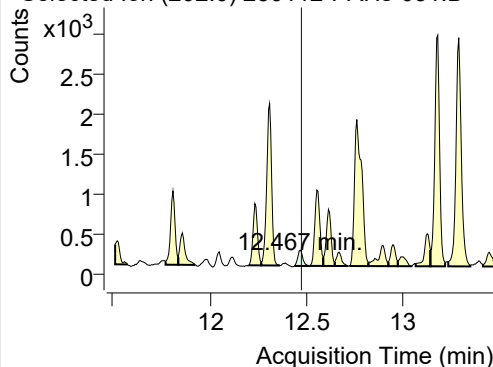
178.0, 179.0, 176.0



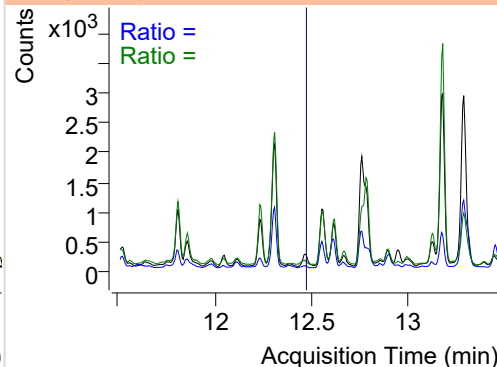
+ SIM (9.875-10.032 min, 16 scans) (**) 23011

**Fluoranthene**

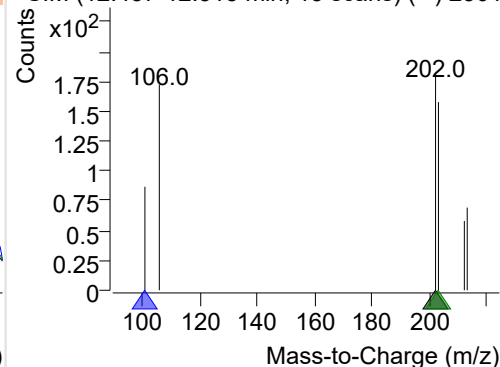
+ Selected Ion (202.0) 230112-PAHs-031.D



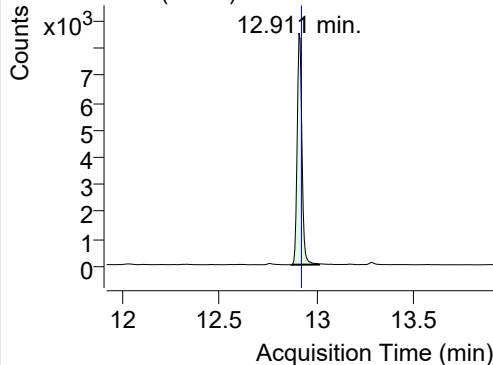
202.0, 101.0, 203.0



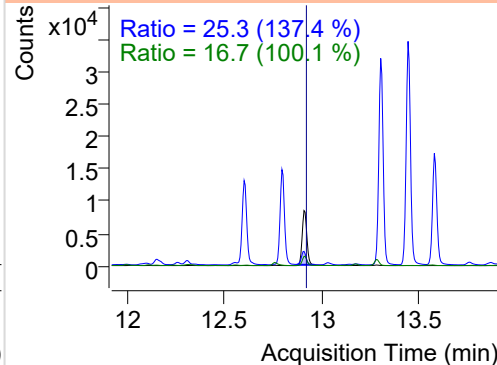
+ SIM (12.437-12.515 min, 15 scans) (**) 2301

**LSS-D10-Pyrene**

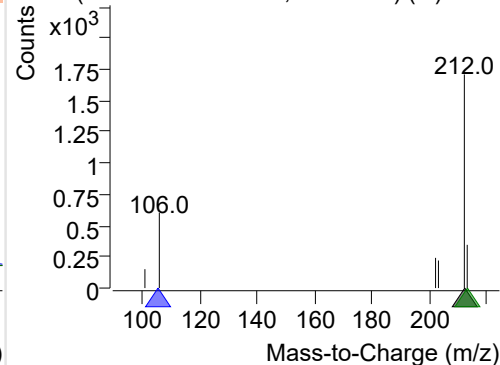
+ Selected Ion (212.0) 230112-PAHs-031.D



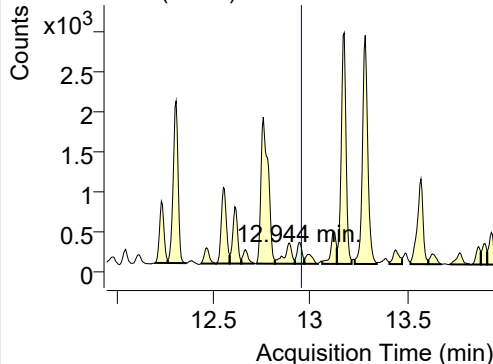
212.0, 106.0, 213.0



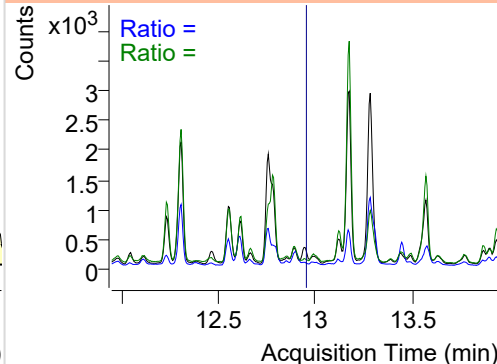
+ SIM (12.873-13.014 min, 27 scans) (**) 2301

**Pyrene**

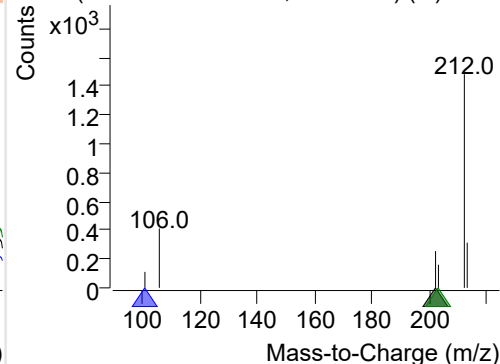
+ Selected Ion (202.0) 230112-PAHs-031.D



202.0, 101.0, 203.0



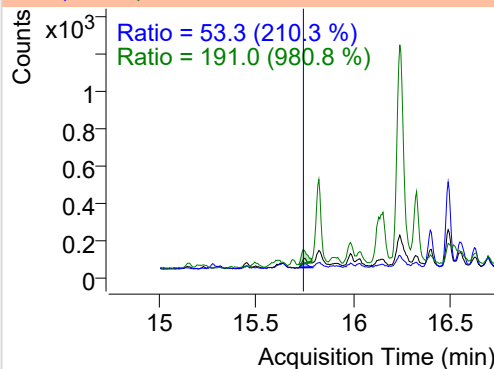
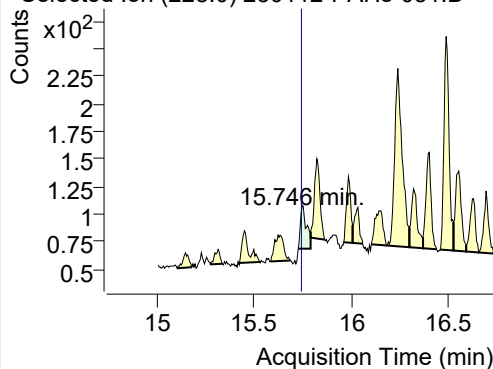
+ SIM (12.922-12.971 min, 10 scans) (**) 2301



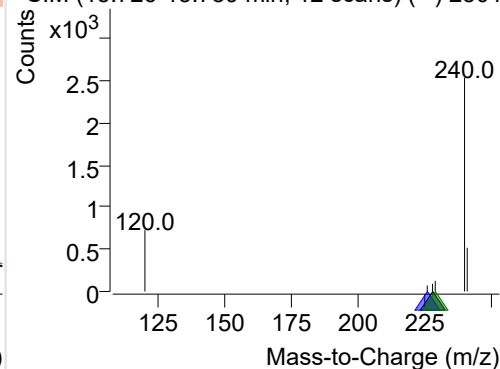
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-031.D

228.0, 226.0, 229.0

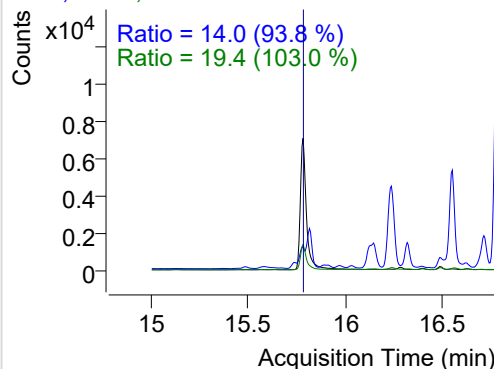
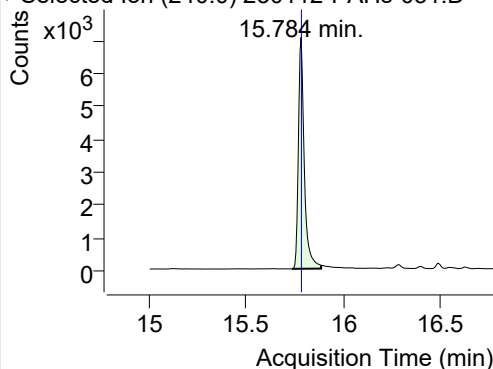


+ SIM (15.726-15.789 min, 12 scans) (**) 2301

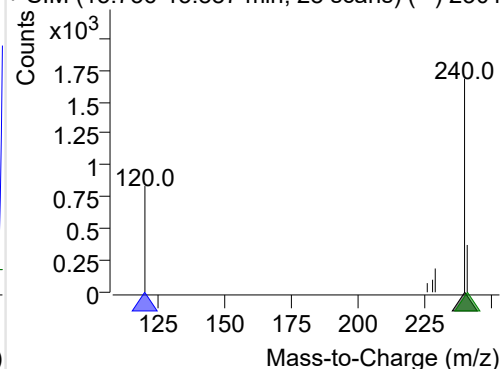
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-031.D

240.0, 120.0, 241.0

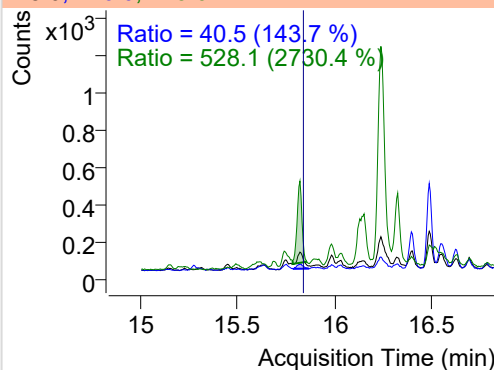
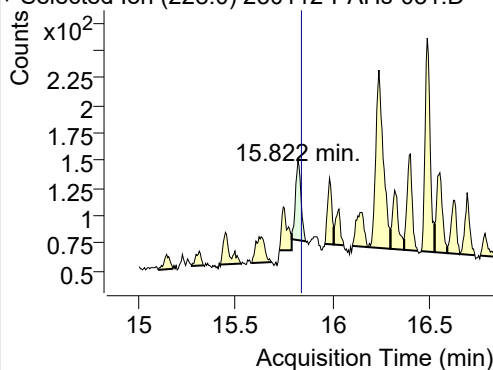


+ SIM (15.736-15.887 min, 28 scans) (**) 2301

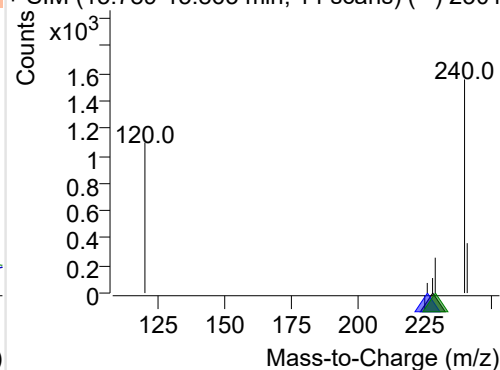
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-031.D

228.0, 226.0, 229.0

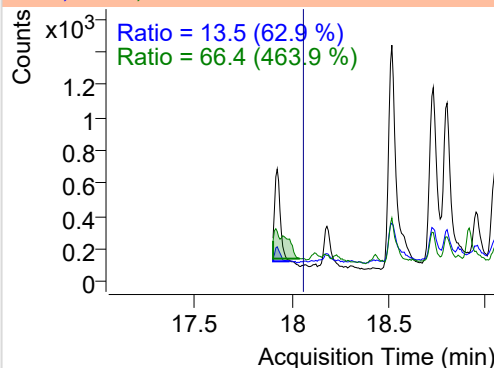
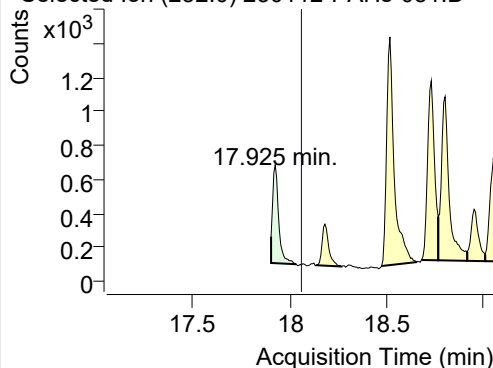


+ SIM (15.789-15.863 min, 14 scans) (**) 2301

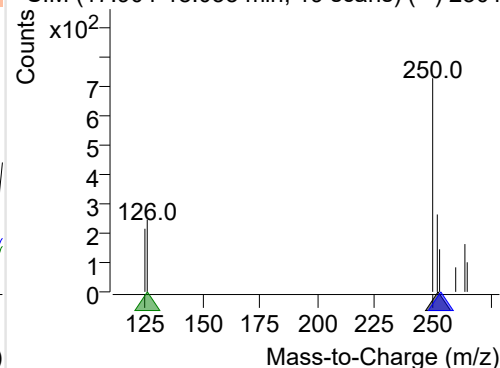
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-031.D

252.0, 253.0, 126.0



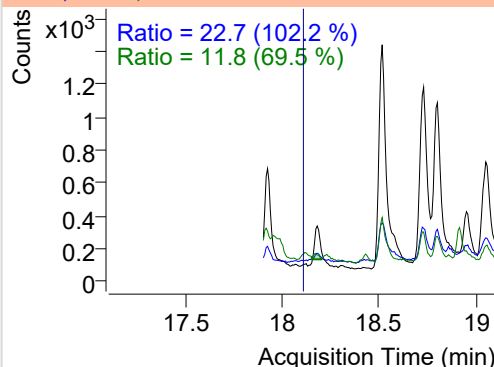
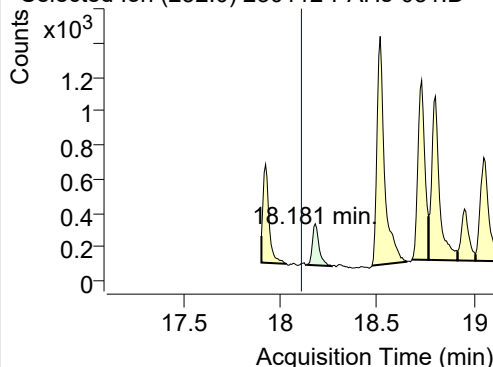
+ SIM (17.904-18.033 min, 19 scans) (**) 2301



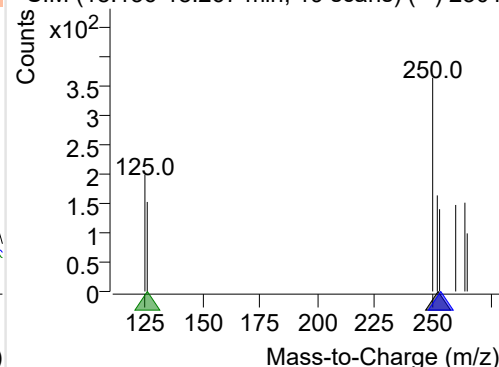
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-031.D

252.0, 253.0, 126.0

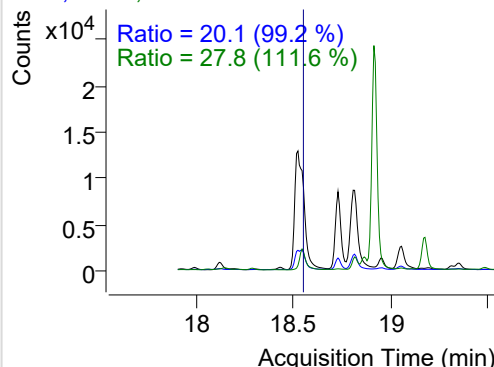
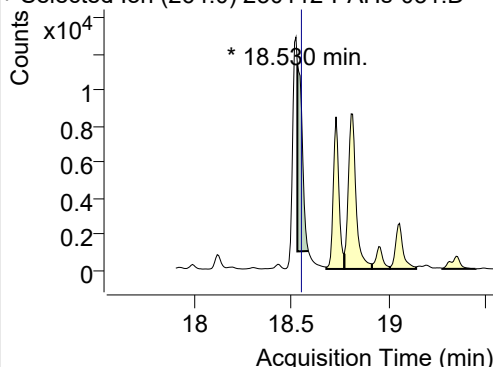


+ SIM (18.136-18.267 min, 19 scans) (**) 2301

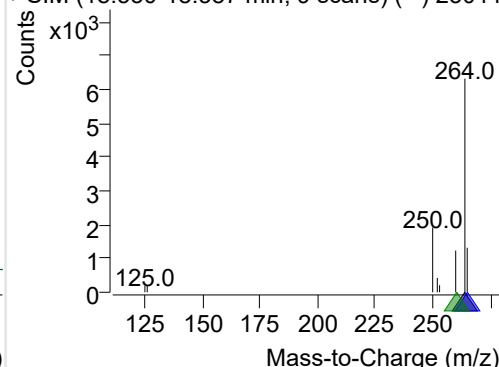
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-031.D

264.0, 265.0, 260.0

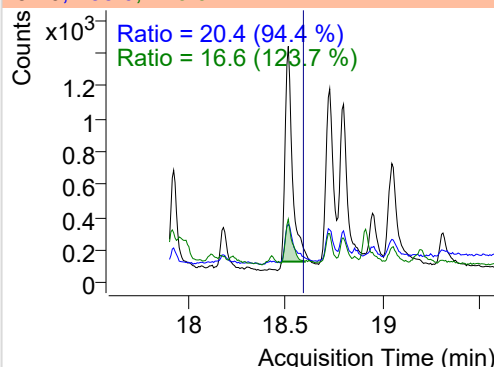
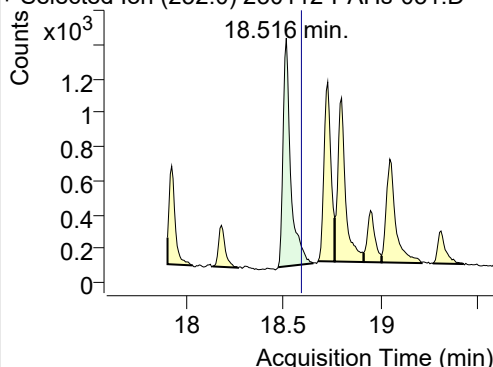


+ SIM (18.530-18.587 min, 9 scans) (**) 23011

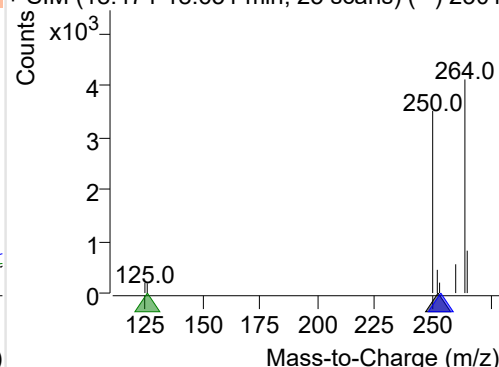
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-031.D

252.0, 253.0, 126.0

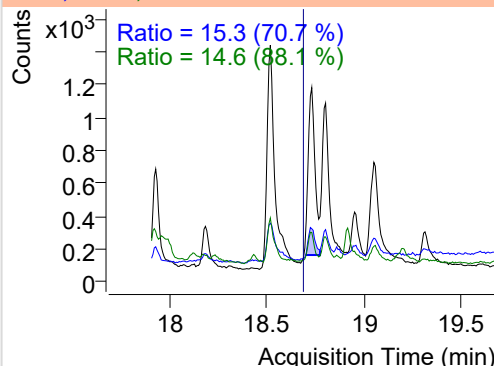
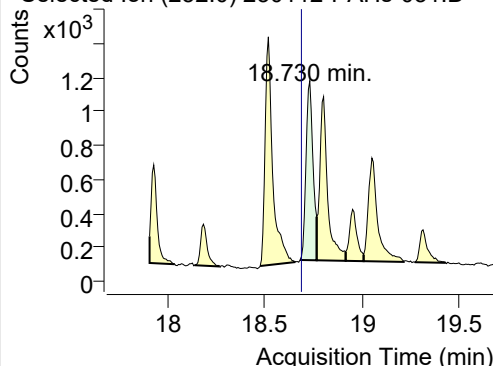


+ SIM (18.474-18.651 min, 25 scans) (**) 2301

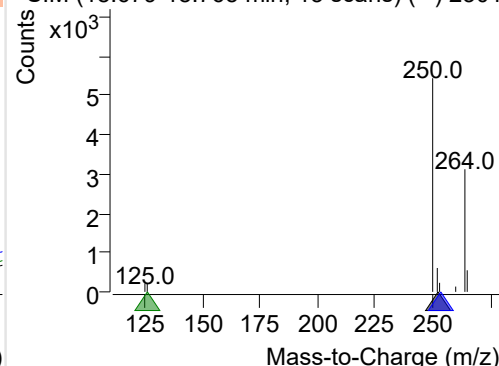
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-031.D

252.0, 253.0, 126.0

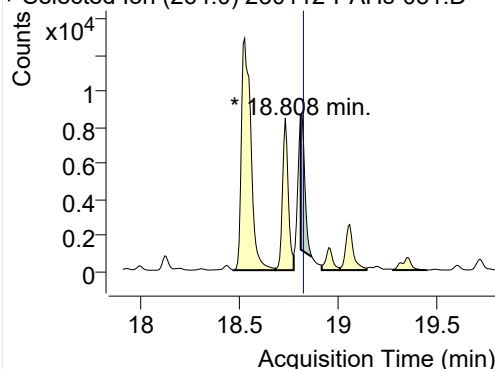


+ SIM (18.679-18.765 min, 13 scans) (**) 2301

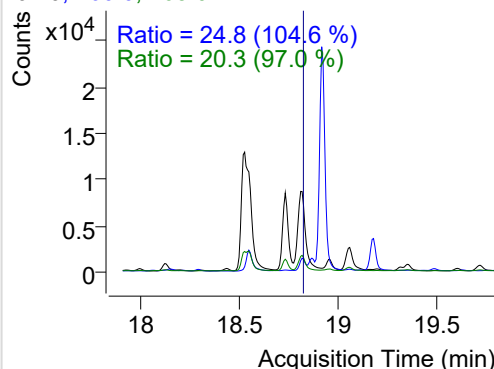


IS-D12-Perylene

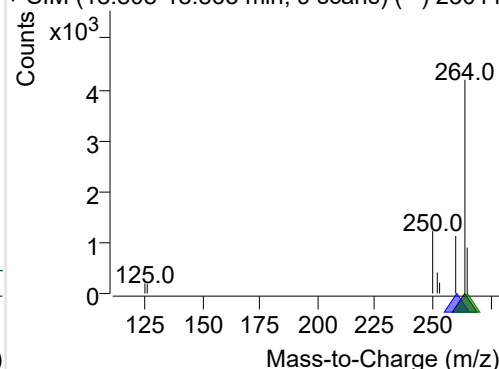
+ Selected Ion (264.0) 230112-PAHs-031.D



264.0, 260.0, 265.0

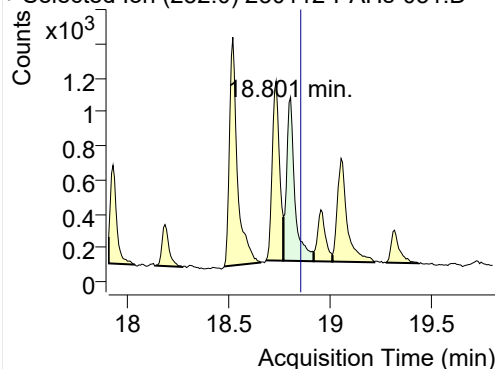


+ SIM (18.808-18.865 min, 9 scans) (**) 23011

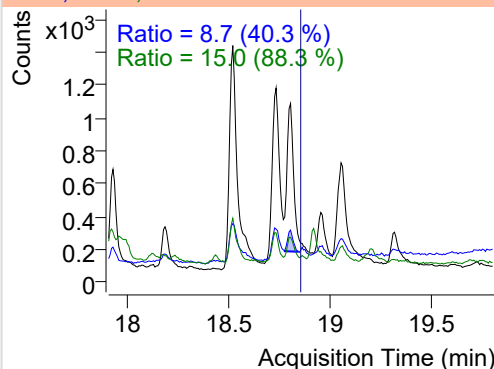


Perylene

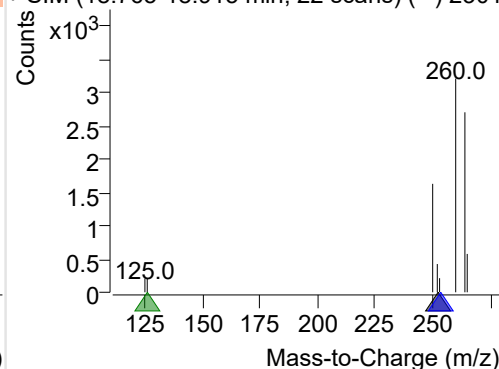
+ Selected Ion (252.0) 230112-PAHs-031.D



252.0, 253.0, 126.0

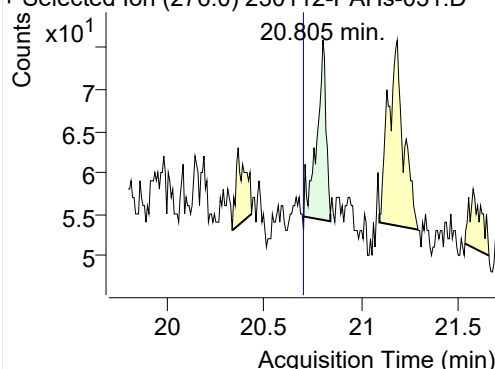


+ SIM (18.765-18.915 min, 22 scans) (**) 2301

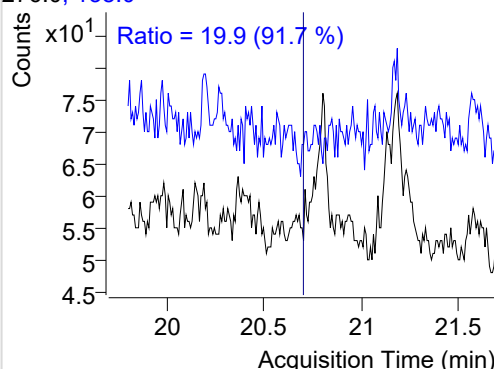


Indeno(1,2,3-c,d)pyrene

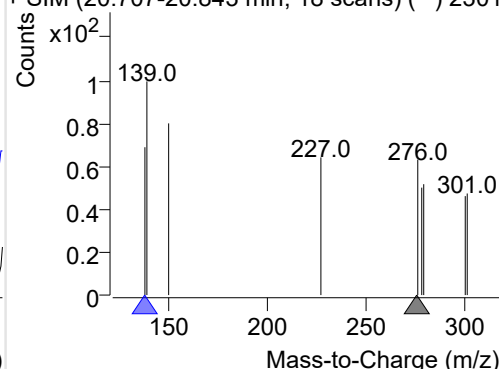
+ Selected Ion (276.0) 230112-PAHs-031.D



276.0, 138.0

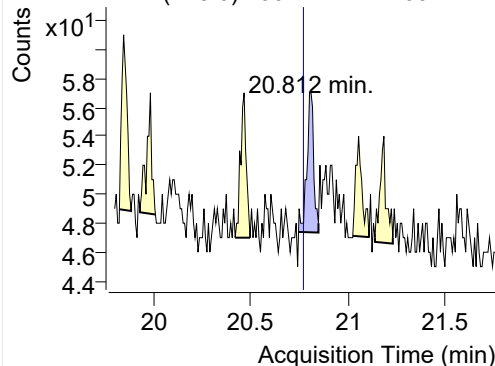


+ SIM (20.707-20.843 min, 18 scans) (**) 2301

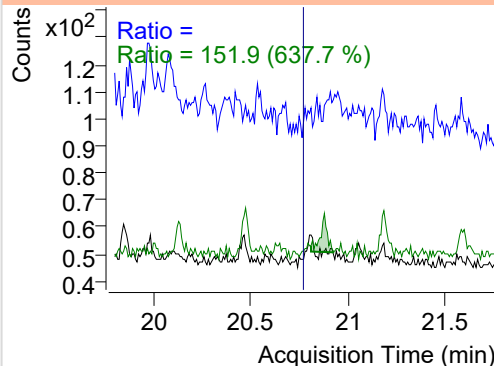


Dibenz(a,h)anthracene

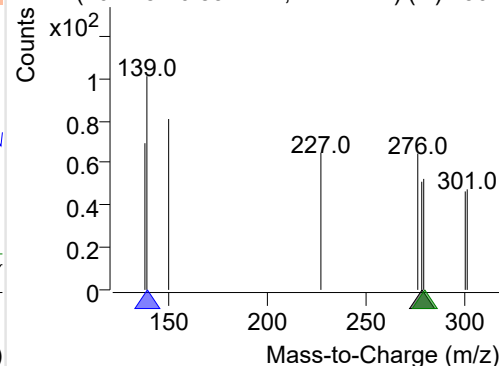
+ Selected Ion (278.0) 230112-PAHs-031.D



278.0, 139.0, 279.0

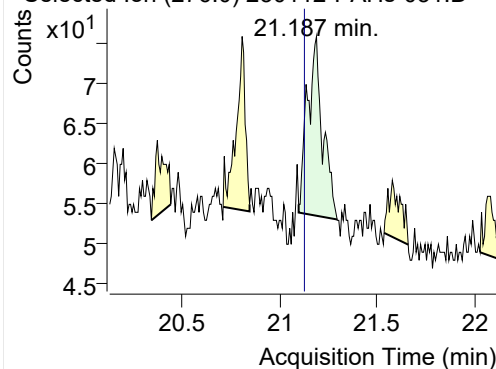


+ SIM (20.748-20.851 min, 14 scans) (**) 2301

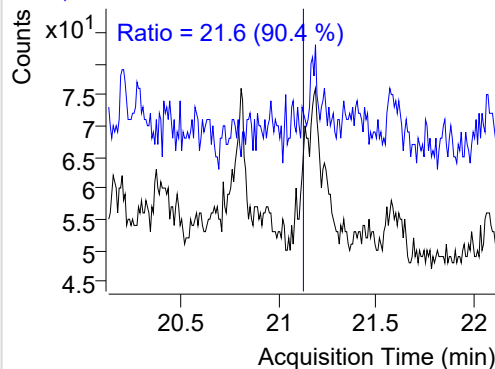


Benzo(g,h,i)perylene

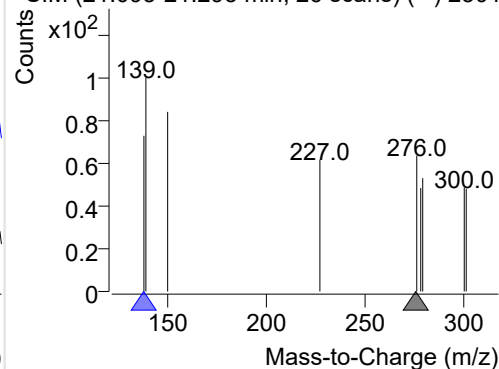
+ Selected Ion (276.0) 230112-PAHs-031.D



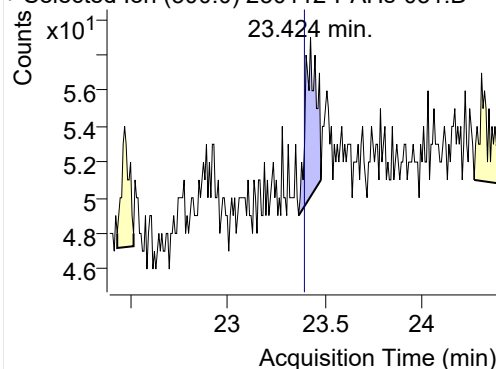
276.0, 138.0



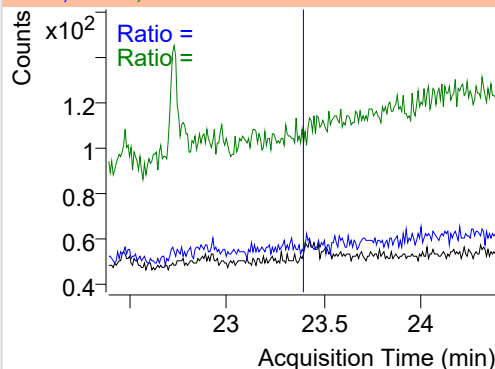
+ SIM (21.095-21.293 min, 26 scans) (**) 2301

**Coronene**

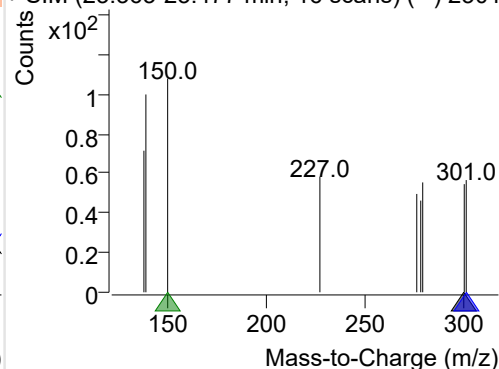
+ Selected Ion (300.0) 230112-PAHs-031.D



300.0, 301.0, 150.0



+ SIM (23.363-23.477 min, 16 scans) (**) 2301



Quantitative Analysis Sample Based Report

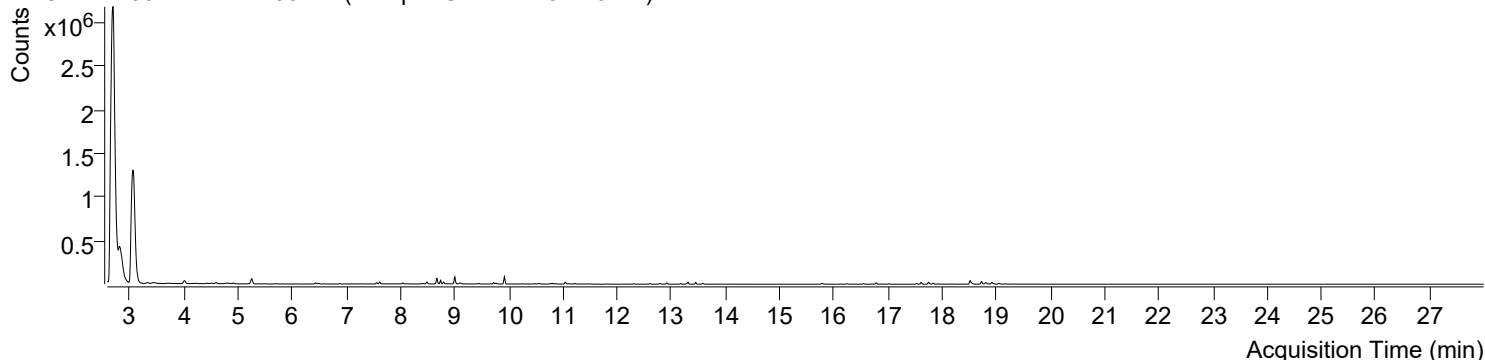


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 3:50:11	Data File	230112-PAHs-032.D
Type	Sample	Name	Sample-Gas-221231-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

+ TIC SIM 230112-PAHs-032.D (Sample-Gas-221231-10DIL)

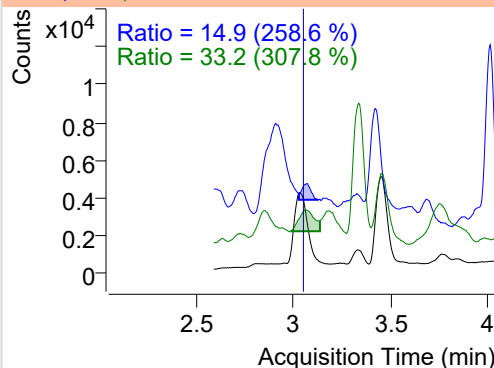
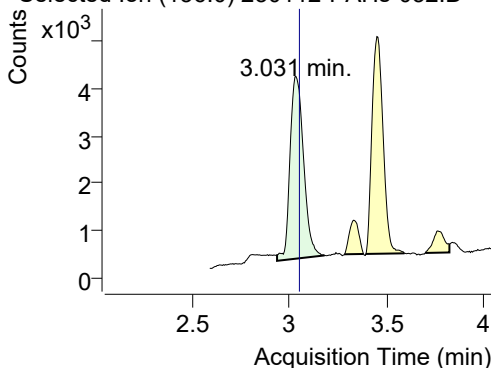


Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	18816	3871.58	ND ng/ml	33.2
Naphthalene	3.063	128.0	5135702	1048704.46	ND ng/ml	12.7
Acenaphthylene	6.102	152.0	1867	954.43	ND ng/ml	27.0
IS-D10-Acenaphthene	6.433	164.0	12496	6015.35	ND ng/ml	91.3
Acenaphthene	6.493	154.0	4485	2190.09	ND ng/ml	109.3
LSS-D10-Fluorene	7.564	176.0	11698	6626.22	ND ng/ml	91.4
Fluorene	7.617	166.0	18023	10489.60	ND ng/ml	97.3
IS-D10-Phenanthrene	9.717	188.0	20420	12775.82	ND ng/ml	20.0
Phenanthrene	9.759	178.0	10589	5672.57	ND ng/ml	18.8
Anthracene	9.916	178.0	34418	22440.57	ND ng/ml	26.7
Fluoranthene	12.466	202.0	879	491.64	ND ng/ml	
LSS-D10-Pyrene	12.911	212.0	16665	9732.50	ND ng/ml	20.4
Pyrene	12.943	202.0	1680	760.49	ND ng/ml	
Benz(a)anthracene	15.746	228.0	69	34.91	ND ng/ml	58.3
IS-D12-Chrysene	15.784	240.0	14486	6775.82	ND ng/ml	19.5
Chrysene	15.822	228.0	202	73.44	ND ng/ml	30.7
Benzo(b)fluoranthene	17.925	252.0	1103	561.00	ND ng/ml	13.6
Benzo(k)fluoranthene	18.181	252.0	545	219.18	ND ng/ml	22.1
SS-D12-Benzo(e)pyrene	18.530	264.0	15423	10378.59	ND ng/ml	23.6
Benzo(e)pyrene	18.516	252.0	4069	1492.12	ND ng/ml	17.0
Benzo(a)pyrene	18.729	252.0	2864	1153.00	ND ng/ml	18.3
IS-D12-Perylene	18.808	264.0	10060	7653.33	ND ng/ml	24.3
Perylene	18.801	252.0	2713	927.82	ND ng/ml	16.6
Indeno(1,2,3-c,d)pyrene	20.805	276.0	64	14.99	ND ng/ml	
Dibenz(a,h)anthracene	20.812	278.0	63	8.98	ND ng/ml	47.3
Benzo(g,h,i)perylene	21.179	276.0	122	21.94	ND ng/ml	33.0
Coronene	23.424	300.0	68	9.25	ND ng/ml	

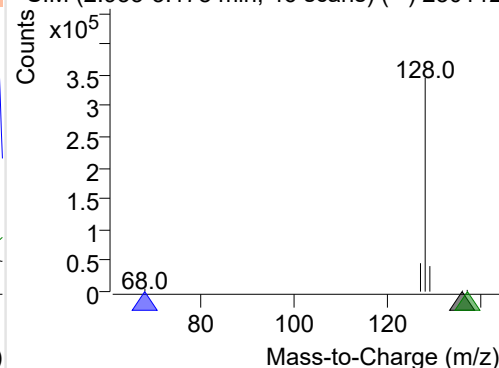
IS-D8-Naphthalene

+ Selected Ion (136.0) 230112-PAHs-032.D

136.0, 68.0, 137.0

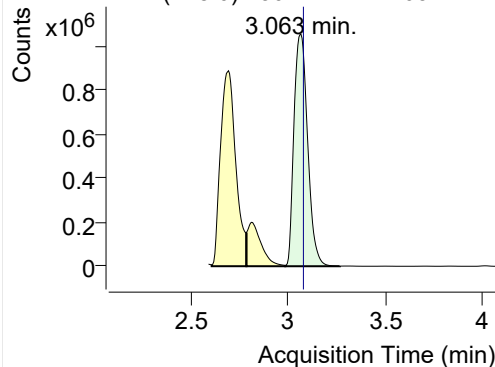


+ SIM (2.933-3.178 min, 46 scans) (**) 230112

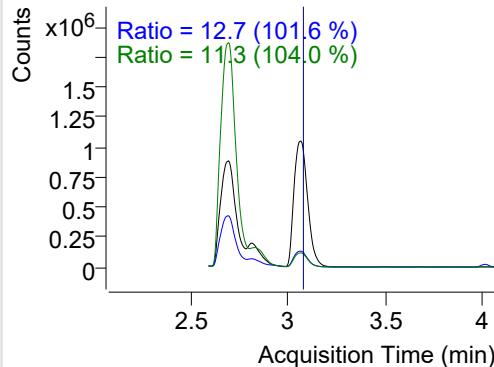


Naphthalene

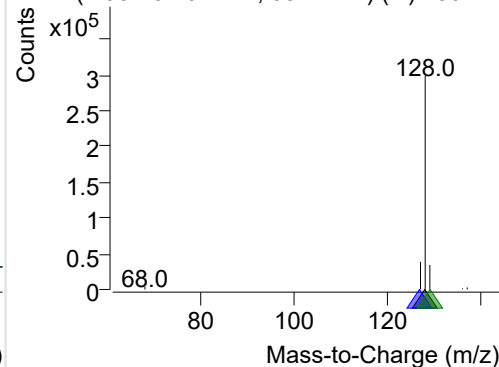
+ Selected Ion (128.0) 230112-PAHs-032.D



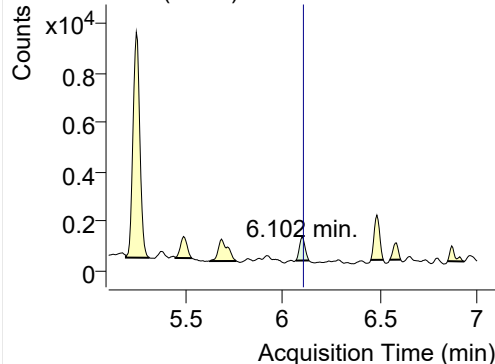
128.0, 127.0, 129.0



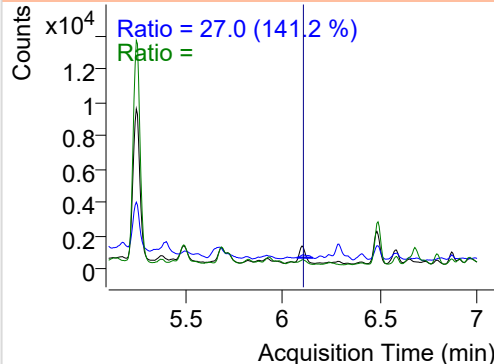
+ SIM (2.982-3.264 min, 53 scans) (**) 230112

**Acenaphthylene**

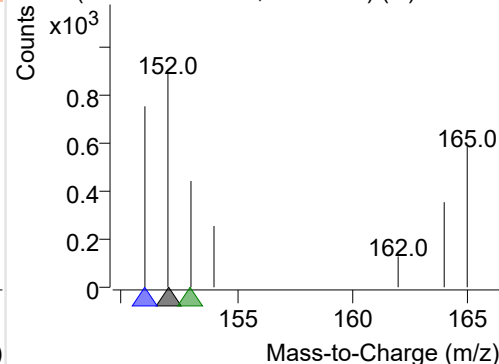
+ Selected Ion (152.0) 230112-PAHs-032.D



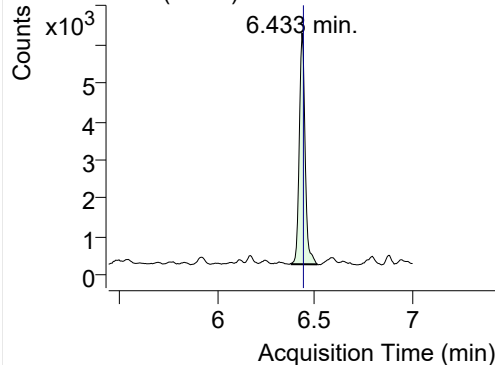
152.0, 151.0, 153.0



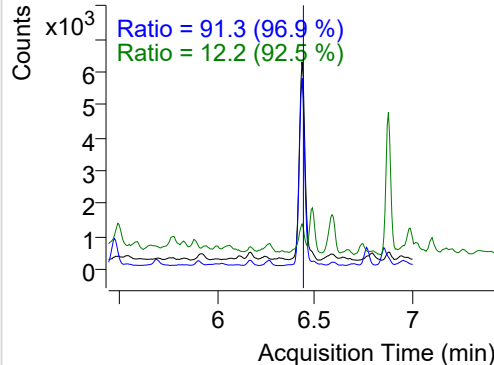
+ SIM (6.069-6.137 min, 11 scans) (**) 230112

**IS-D10-Acenaphthene**

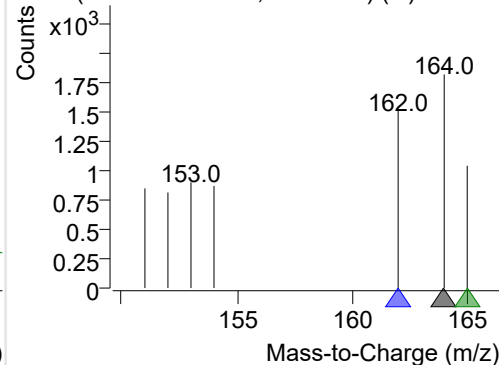
+ Selected Ion (164.0) 230112-PAHs-032.D



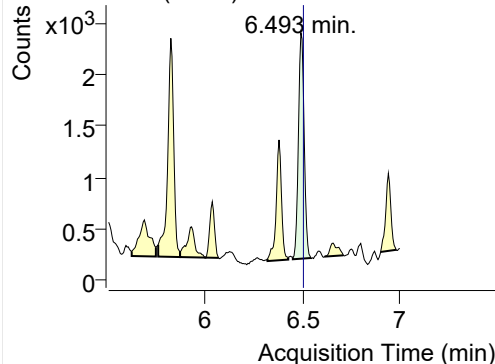
164.0, 162.0, 165.0



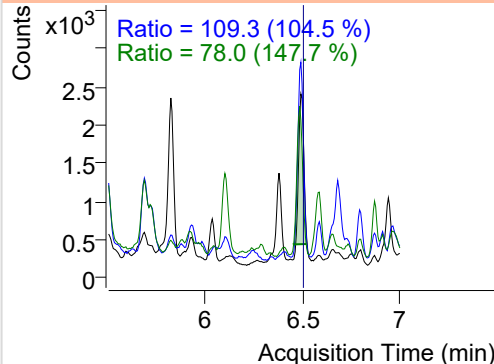
+ SIM (6.380-6.512 min, 23 scans) (**) 230112

**Acenaphthene**

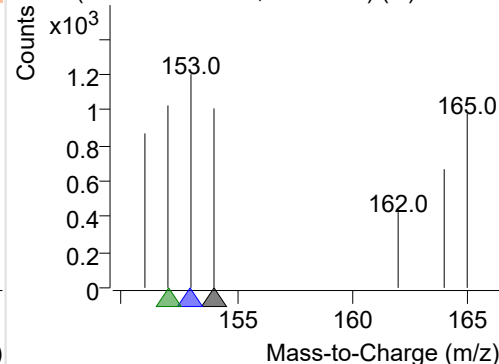
+ Selected Ion (154.0) 230112-PAHs-032.D



154.0, 153.0, 152.0

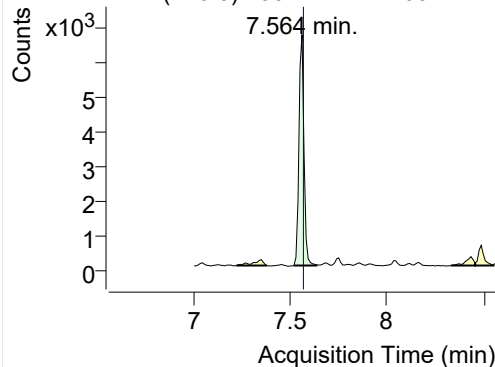


+ SIM (6.451-6.544 min, 16 scans) (**) 230112

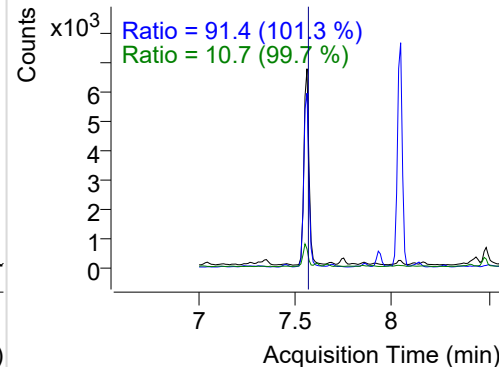


LSS-D10-Fluorene

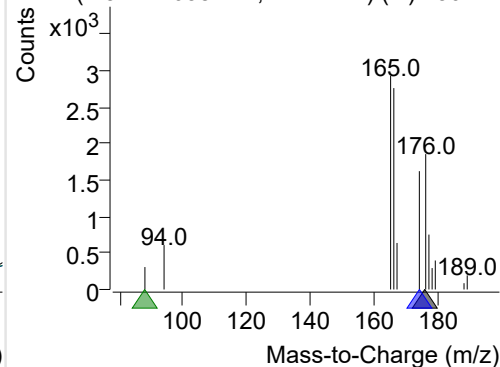
+ Selected Ion (176.0) 230112-PAHs-032.D



176.0, 174.0, 88.0

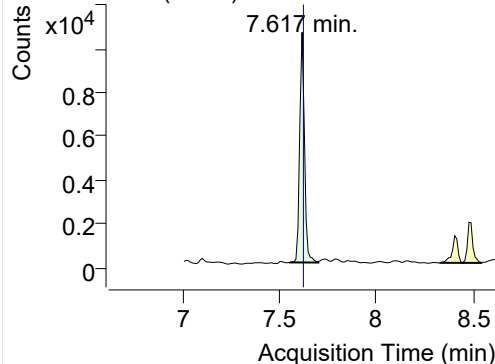


+ SIM (7.522-7.638 min, 11 scans) (**) 230112

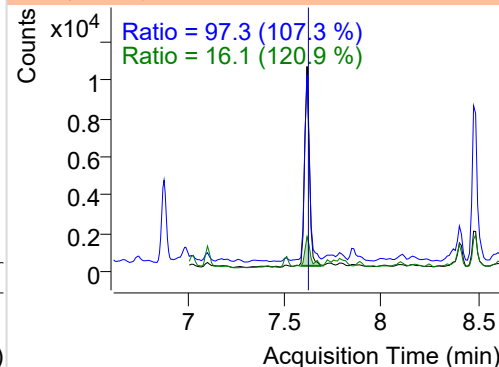


Fluorene

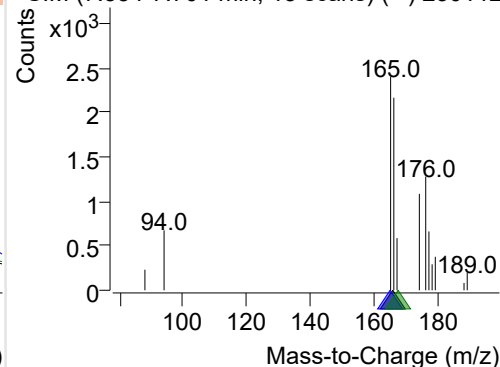
+ Selected Ion (166.0) 230112-PAHs-032.D



166.0, 165.0, 167.0

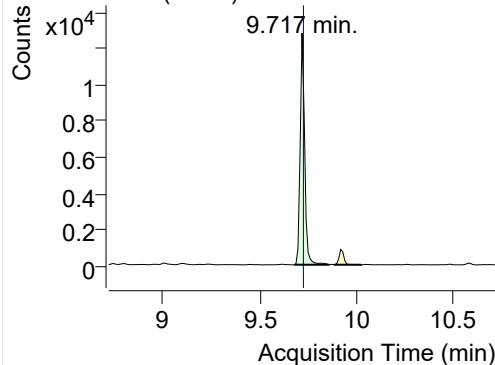


+ SIM (7.554-7.701 min, 15 scans) (**) 230112

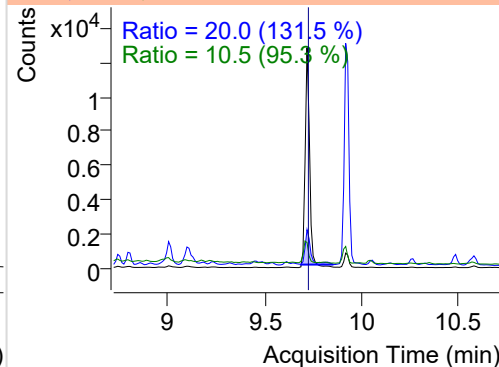


IS-D10-Phenanthrene

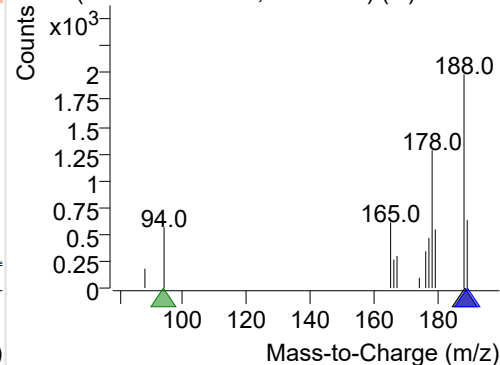
+ Selected Ion (188.0) 230112-PAHs-032.D



188.0, 189.0, 94.0

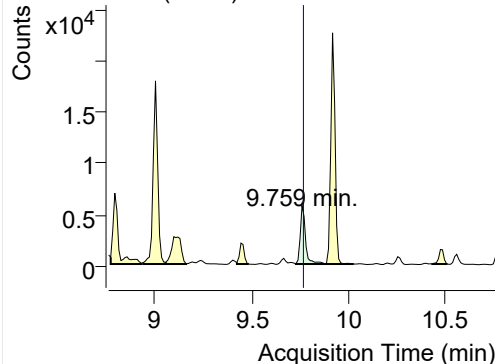


+ SIM (9.676-9.853 min, 17 scans) (**) 230112

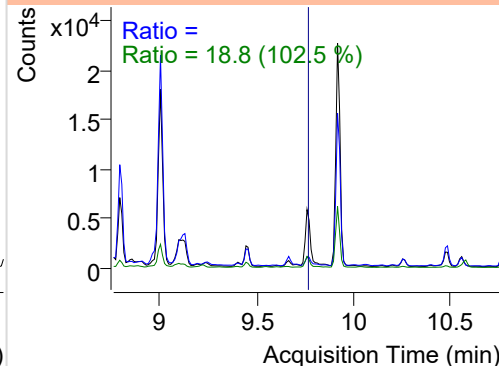


Phenanthrene

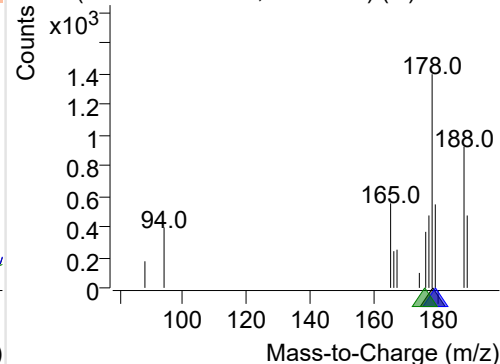
+ Selected Ion (178.0) 230112-PAHs-032.D



178.0, 179.0, 176.0

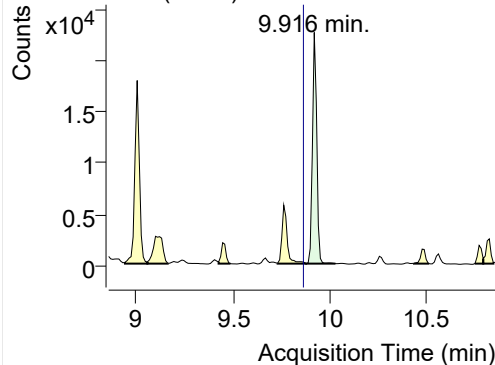


+ SIM (9.727-9.874 min, 15 scans) (**) 230112

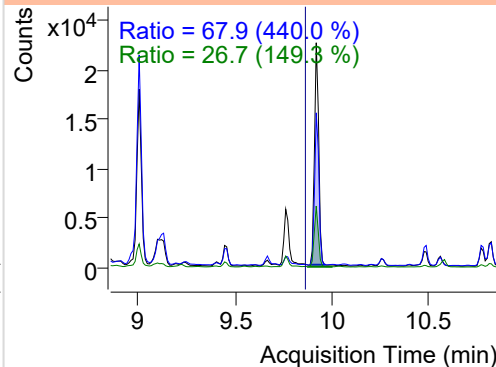


Anthracene

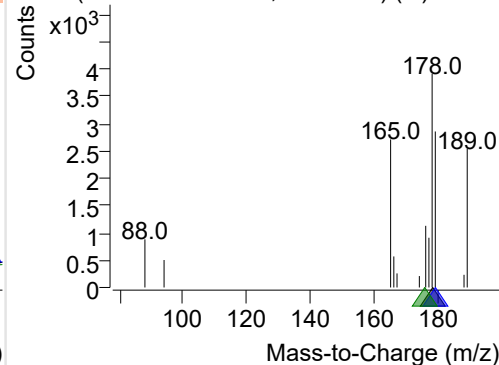
+ Selected Ion (178.0) 230112-PAHs-032.D



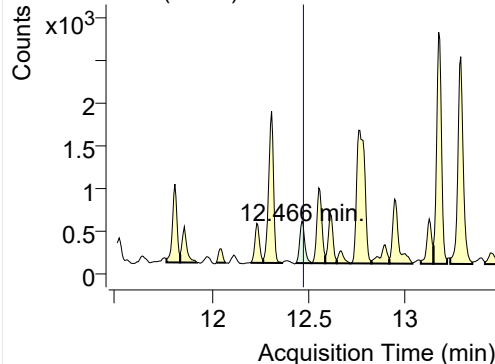
178.0, 179.0, 176.0



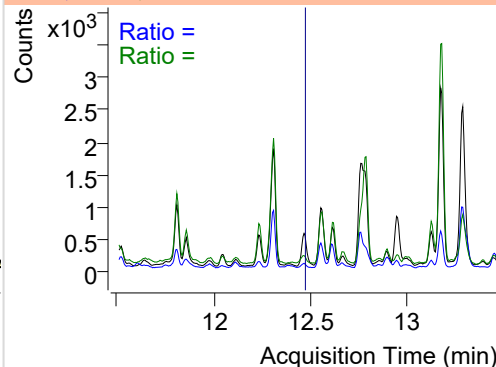
+ SIM (9.874-10.026 min, 15 scans) (**) 23011

**Fluoranthene**

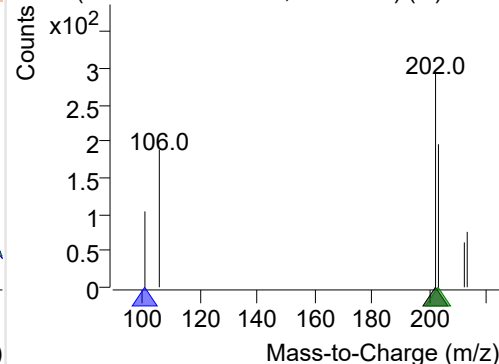
+ Selected Ion (202.0) 230112-PAHs-032.D



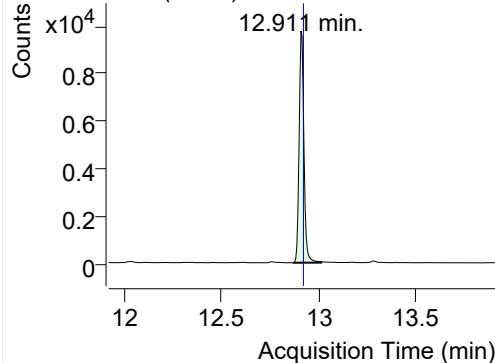
202.0, 101.0, 203.0



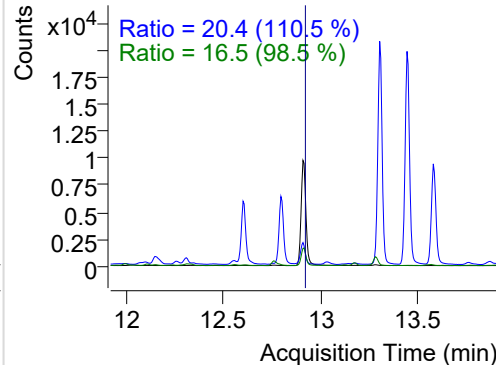
+ SIM (12.435-12.515 min, 15 scans) (**) 23011

**LSS-D10-Pyrene**

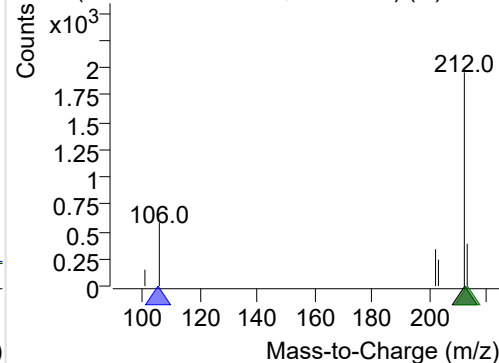
+ Selected Ion (212.0) 230112-PAHs-032.D



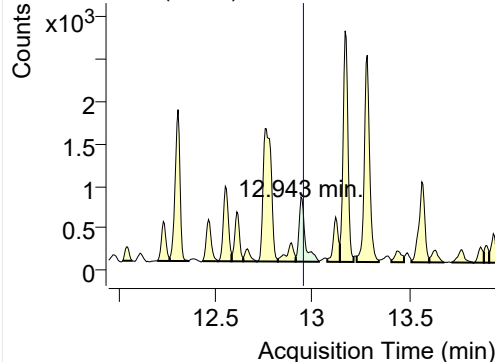
212.0, 106.0, 213.0



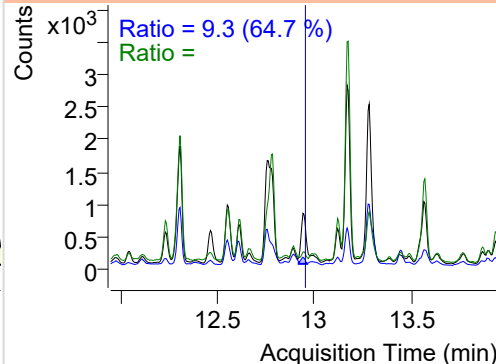
+ SIM (12.873-13.014 min, 27 scans) (**) 23011

**Pyrene**

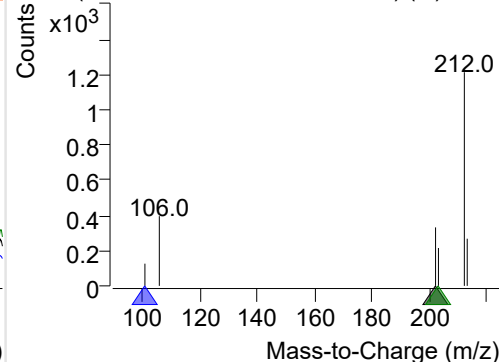
+ Selected Ion (202.0) 230112-PAHs-032.D



202.0, 101.0, 203.0



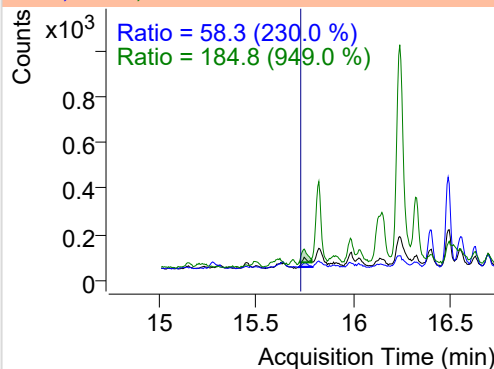
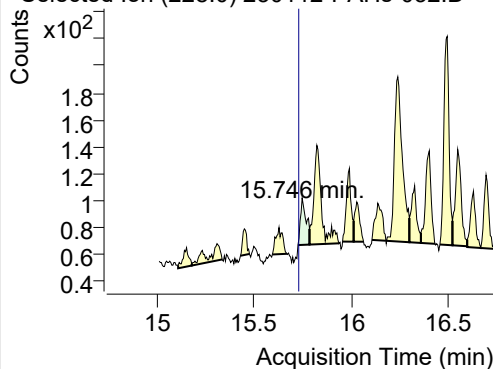
+ SIM (12.916-13.036 min, 23 scans) (**) 23011



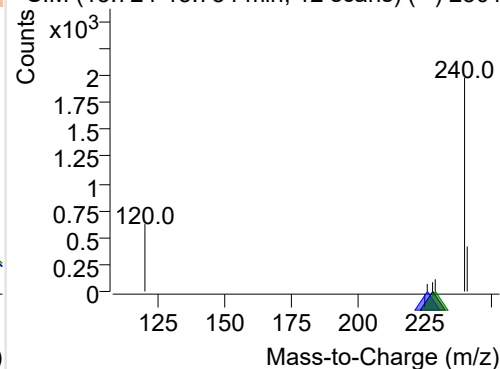
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-032.D

228.0, 226.0, 229.0

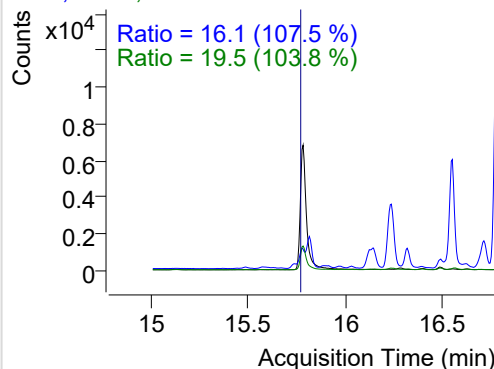
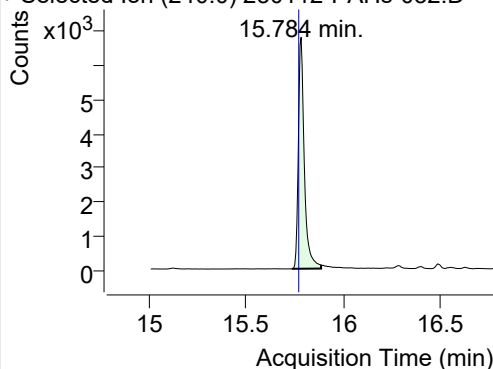


+ SIM (15.724-15.784 min, 12 scans) (**) 2301

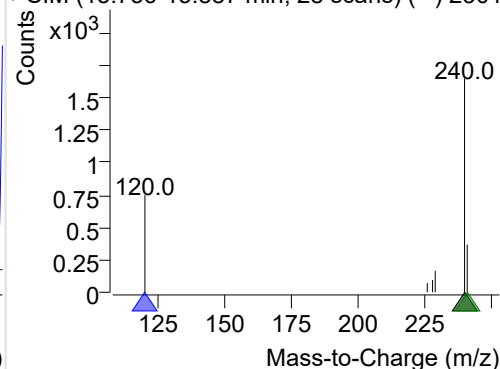
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-032.D

240.0, 120.0, 241.0

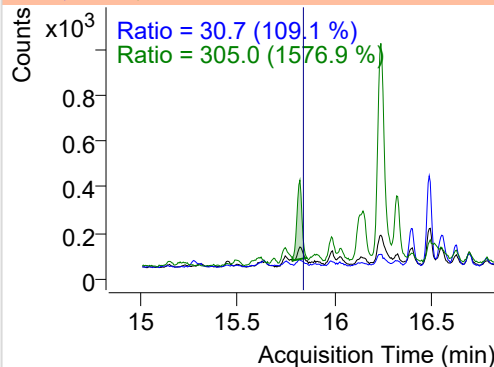
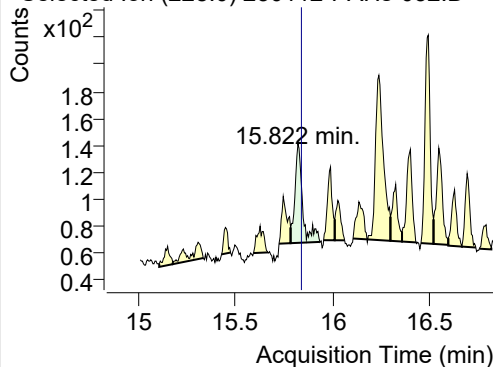


+ SIM (15.736-15.887 min, 28 scans) (**) 2301

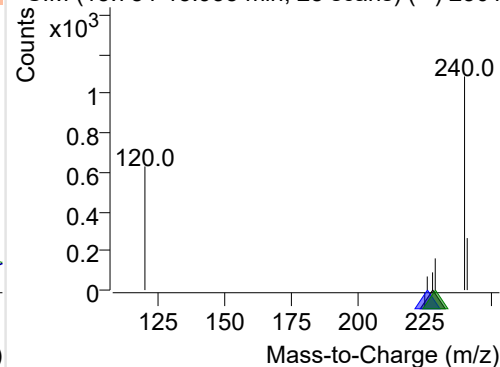
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-032.D

228.0, 226.0, 229.0

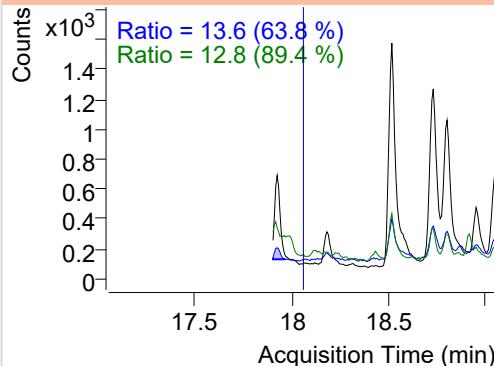
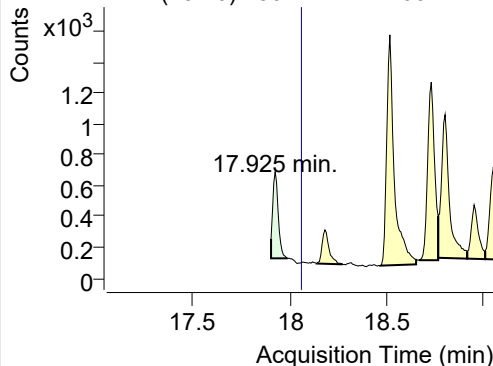


+ SIM (15.784-15.935 min, 28 scans) (**) 2301

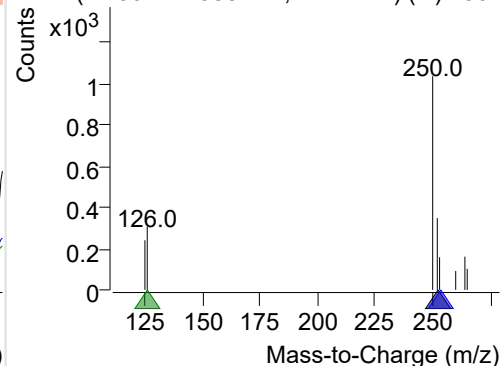
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-032.D

252.0, 253.0, 126.0

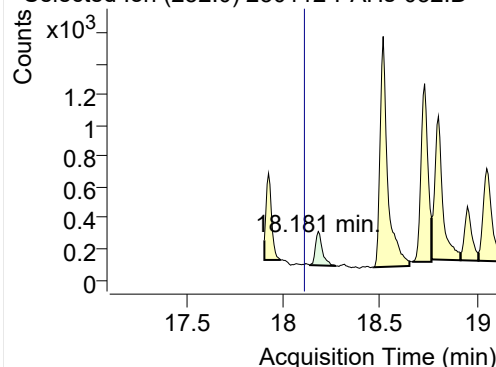


+ SIM (17.904-17.988 min, 12 scans) (**) 2301

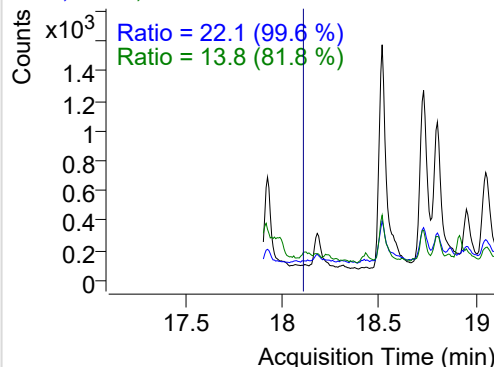


Benzo(k)fluoranthene

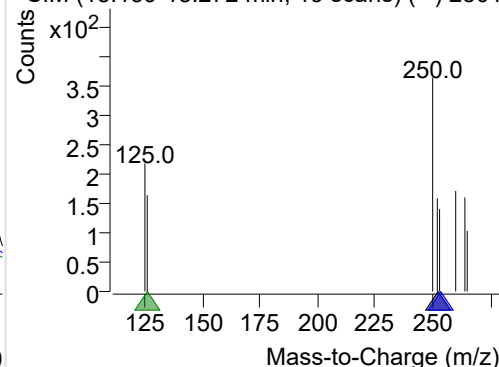
+ Selected Ion (252.0) 230112-PAHs-032.D



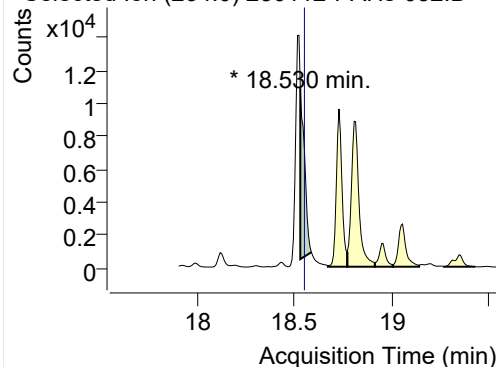
252.0, 253.0, 126.0



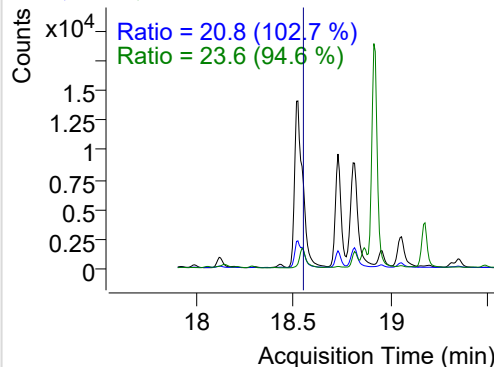
+ SIM (18.139-18.272 min, 19 scans) (**) 2301

**SS-D12-Benzo(e)pyrene**

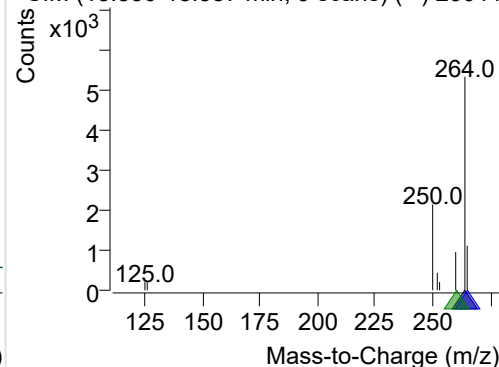
+ Selected Ion (264.0) 230112-PAHs-032.D



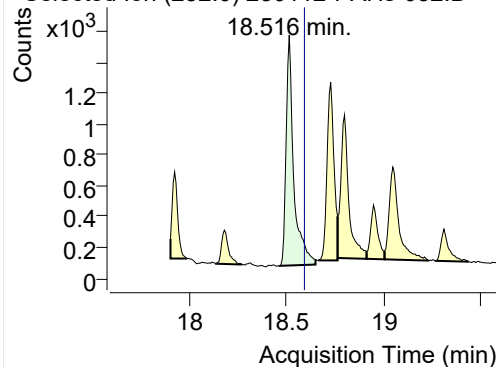
264.0, 265.0, 260.0



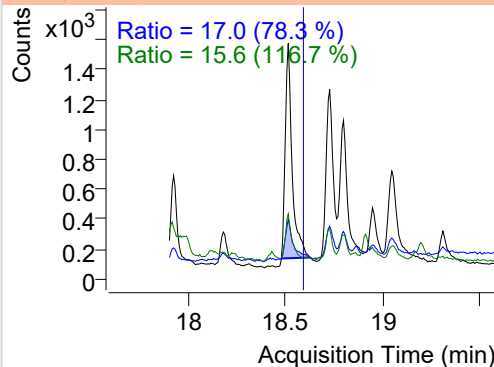
+ SIM (18.530-18.587 min, 9 scans) (**) 23011

**Benzo(e)pyrene**

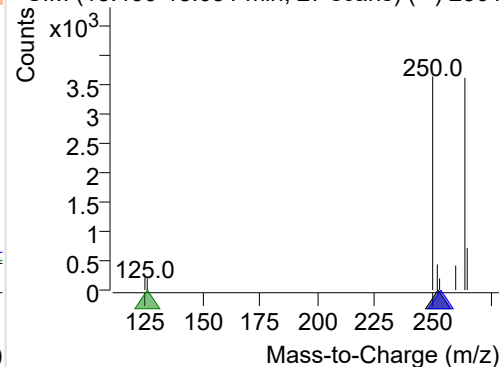
+ Selected Ion (252.0) 230112-PAHs-032.D



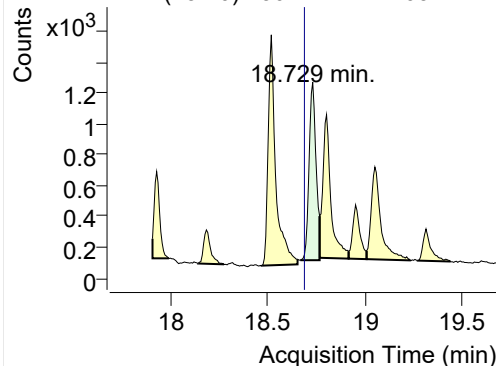
252.0, 253.0, 126.0



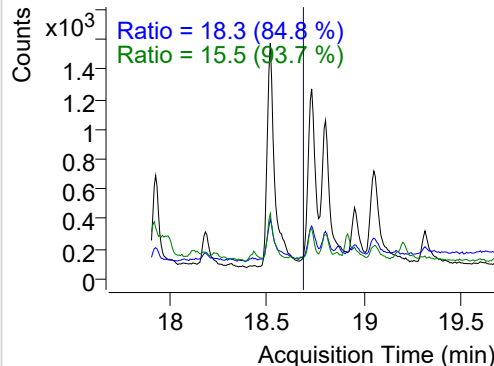
+ SIM (18.466-18.651 min, 27 scans) (**) 2301

**Benzo(a)pyrene**

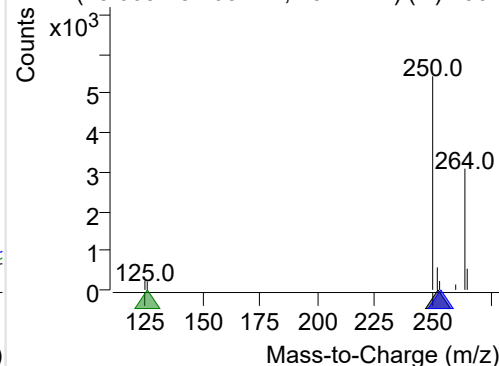
+ Selected Ion (252.0) 230112-PAHs-032.D



252.0, 253.0, 126.0

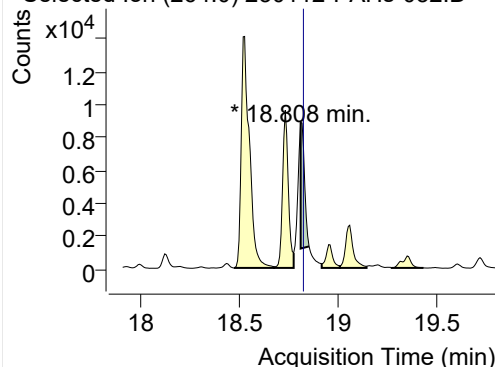


+ SIM (18.665-18.765 min, 15 scans) (**) 2301

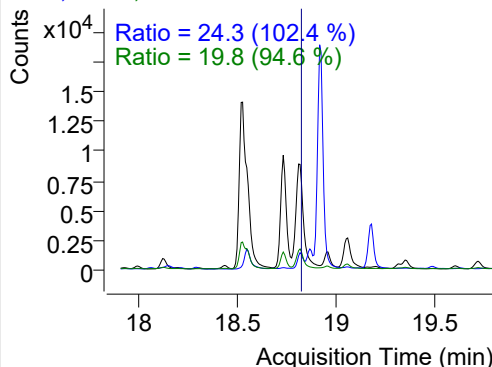


IS-D12-Perylene

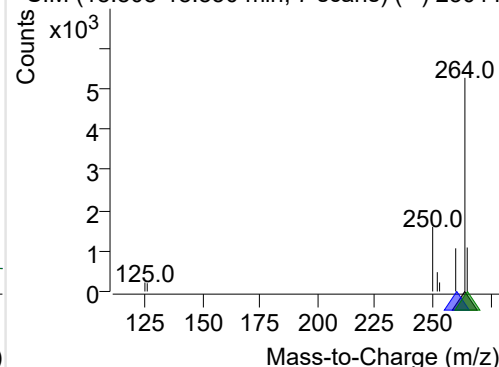
+ Selected Ion (264.0) 230112-PAHs-032.D



264.0, 260.0, 265.0

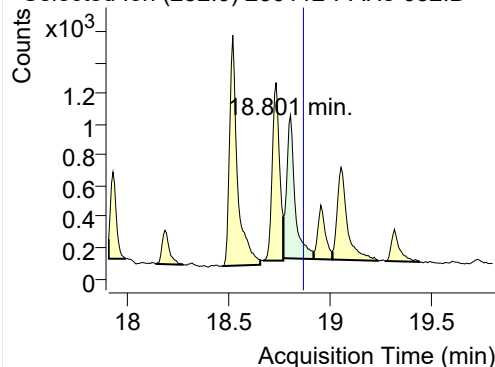


+ SIM (18.808-18.850 min, 7 scans) (**) 23011

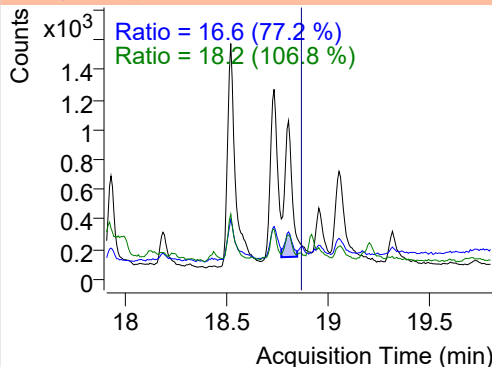


Perylene

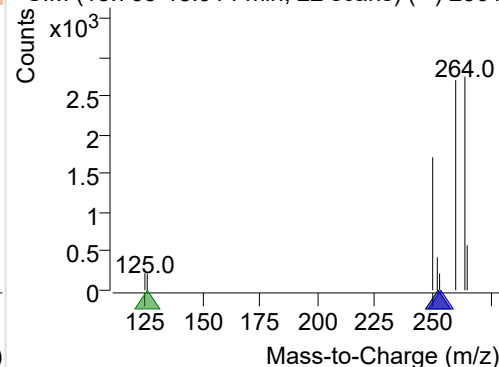
+ Selected Ion (252.0) 230112-PAHs-032.D



252.0, 253.0, 126.0

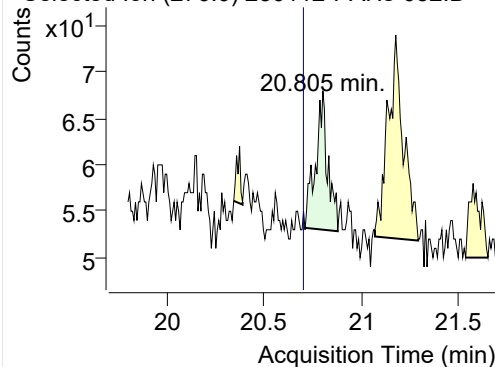


+ SIM (18.765-18.914 min, 22 scans) (**) 2301

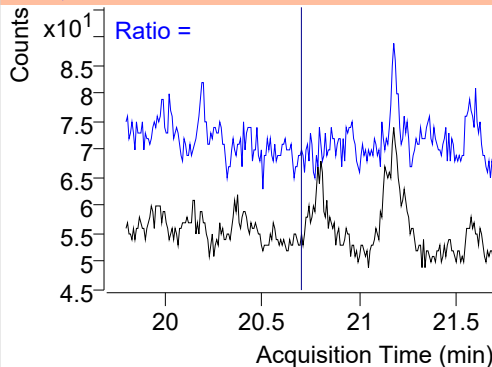


Indeno(1,2,3-c,d)pyrene

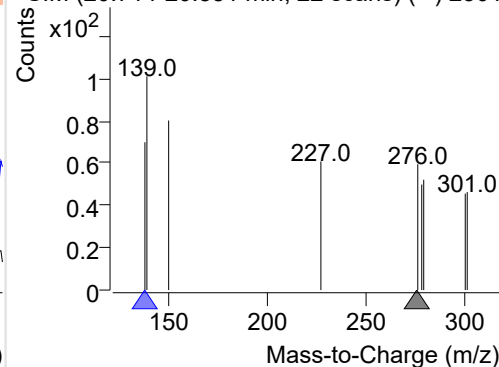
+ Selected Ion (276.0) 230112-PAHs-032.D



276.0, 138.0

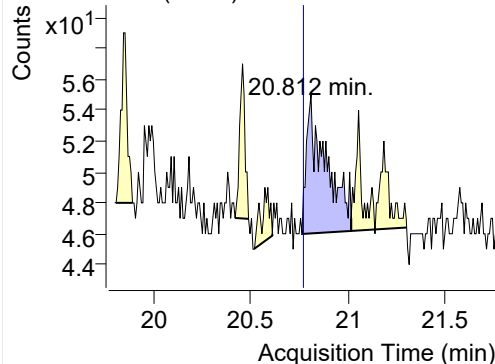


+ SIM (20.714-20.881 min, 22 scans) (**) 2301

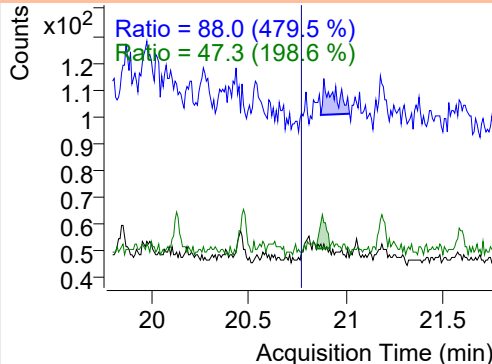


Dibenz(a,h)anthracene

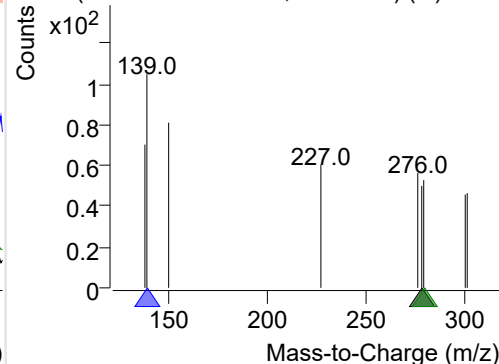
+ Selected Ion (278.0) 230112-PAHs-032.D



278.0, 139.0, 279.0



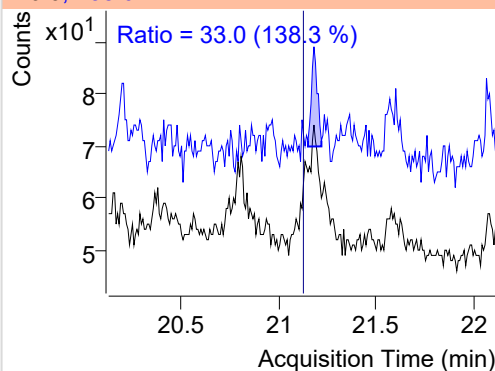
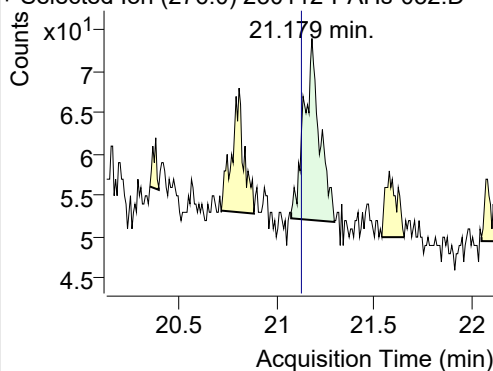
+ SIM (20.766-21.018 min, 34 scans) (**) 2301



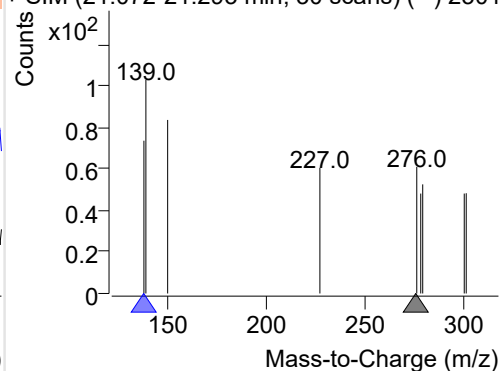
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-032.D

276.0, 138.0

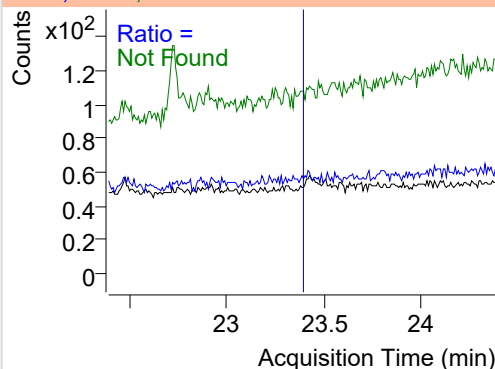
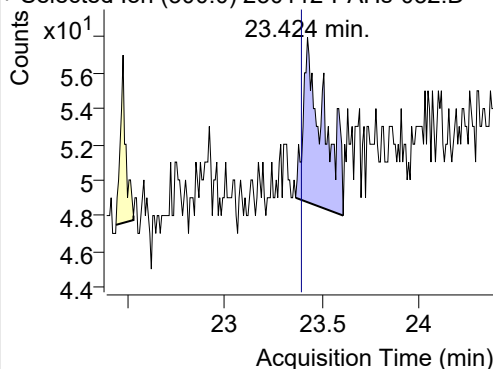


+ SIM (21.072-21.293 min, 30 scans) (**) 2301

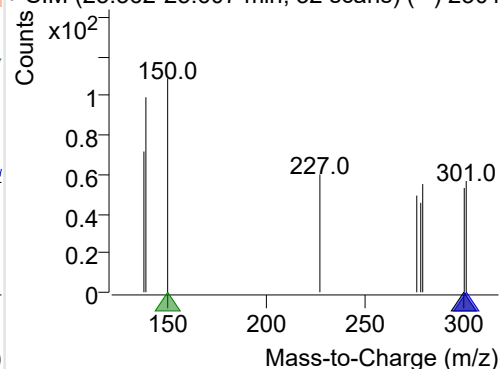
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-032.D

300.0, 301.0, 150.0



+ SIM (23.362-23.607 min, 32 scans) (**) 2301



Quantitative Analysis Sample Based Report

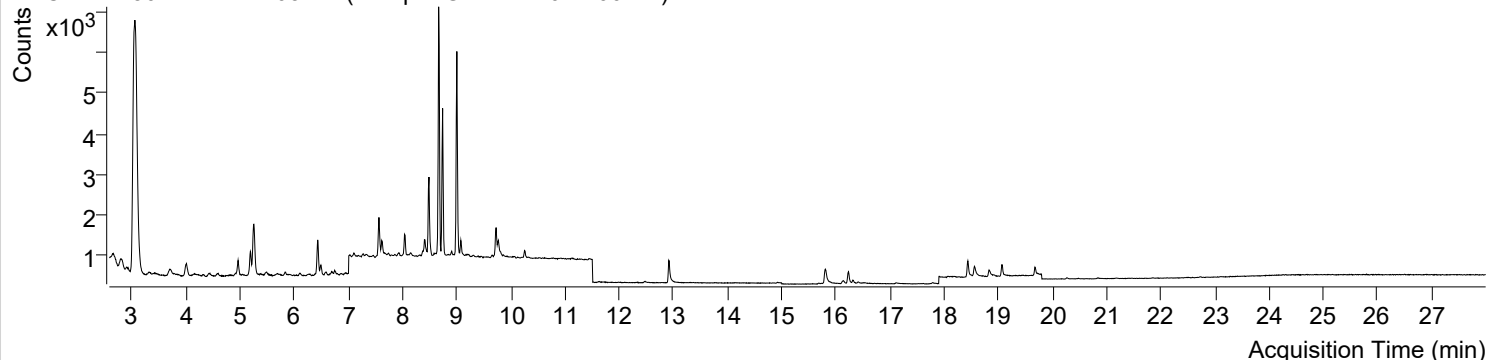


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 4:52:57	Data File	230112-PAHs-034.D
Type	Sample	Name	Sample-Gas-221201-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

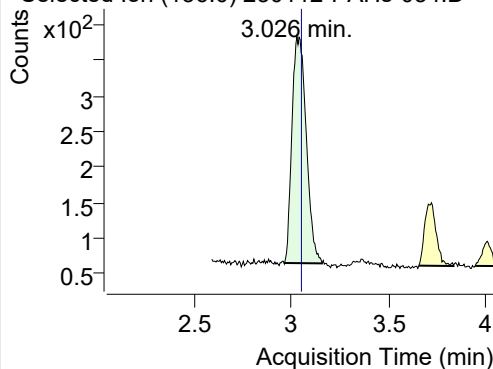
+ TIC SIM 230112-PAHs-034.D (Sample-Gas-221201-100DIL)



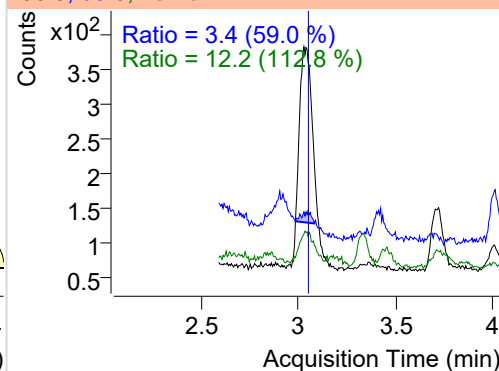
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.026	136.0	1620	317.58	ND ng/ml	12.2
Naphthalene	3.064	128.0	25005	4767.89	ND ng/ml	11.8
Acenaphthylene	6.108	152.0	86	40.30	ND ng/ml	
IS-D10-Acenaphthene	6.434	164.0	889	421.11	ND ng/ml	93.9
Acenaphthene	6.499	154.0	131	69.48	ND ng/ml	106.0
LSS-D10-Fluorene	7.564	176.0	849	438.67	ND ng/ml	93.1
Fluorene	7.617	166.0	371	160.59	ND ng/ml	103.1
IS-D10-Phenanthrene	9.728	188.0	1342	589.93	ND ng/ml	17.5
Phenanthrene	9.770	178.0	558	215.03	ND ng/ml	16.0
Anthracene	9.770	178.0	558	215.03	ND ng/ml	16.0
Fluoranthene	12.478	202.0	65	23.65	ND ng/ml	32.2
LSS-D10-Pyrene	12.917	212.0	962	413.97	ND ng/ml	17.4
Pyrene	12.960	202.0	55	19.65	ND ng/ml	
Benz(a)anthracene	15.833	228.0	51	11.45	ND ng/ml	20.6
IS-D12-Chrysene	15.800	240.0	775	220.91	ND ng/ml	18.2
Chrysene	15.833	228.0	51	11.45	ND ng/ml	20.6
Benzo(b)fluoranthene	18.445	252.0	28	16.13	ND ng/ml	220.4
Benzo(k)fluoranthene	18.445	252.0	28	16.13	ND ng/ml	220.4
SS-D12-Benzo(e)pyrene	18.559	264.0	561	168.90	ND ng/ml	25.3
Benzo(e)pyrene	18.445	252.0	28	16.13	ND ng/ml	220.4
Benzo(a)pyrene	18.445	252.0	28	16.13	ND ng/ml	220.4
IS-D12-Perylene	18.829	264.0	347	101.55	ND ng/ml	27.9
Perylene	19.078	252.0	24	13.13	ND ng/ml	124.0
Indeno(1,2,3-c,d)pytene	21.171	276.0	27	4.00	ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene	21.171	276.0	27	4.00	ND ng/ml	
Coronene	23.416	300.0	7	4.04	ND ng/ml	679.1

IS-D8-Naphthalene

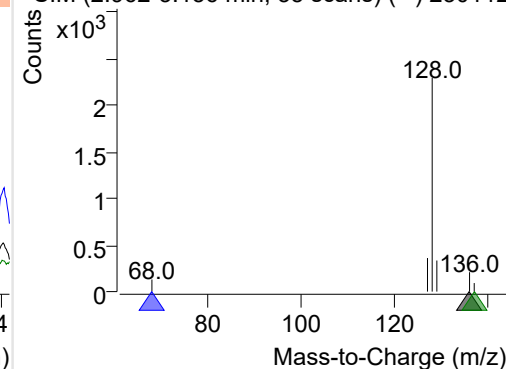
+ Selected Ion (136.0) 230112-PAHs-034.D



136.0, 68.0, 137.0

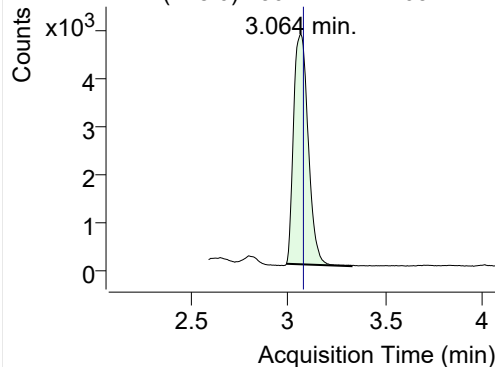


+ SIM (2.962-3.156 min, 35 scans) (**) 230112

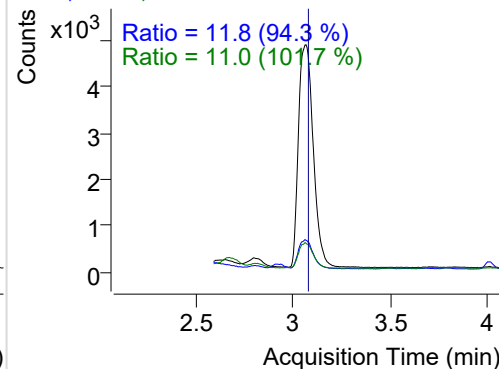


Naphthalene

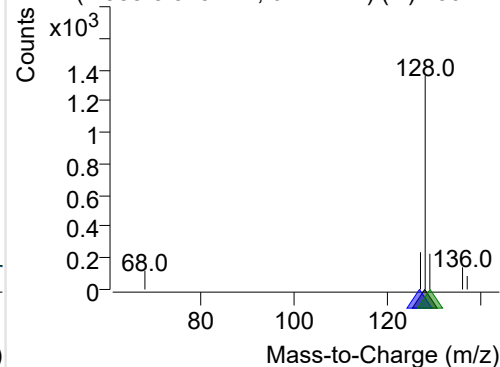
+ Selected Ion (128.0) 230112-PAHs-034.D



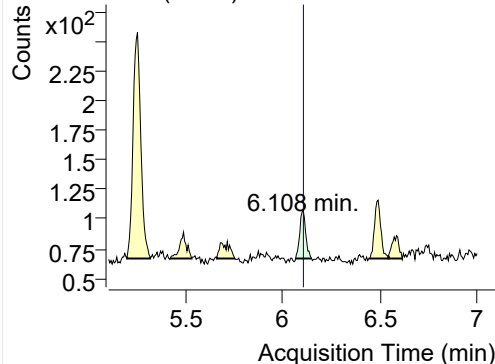
128.0, 127.0, 129.0



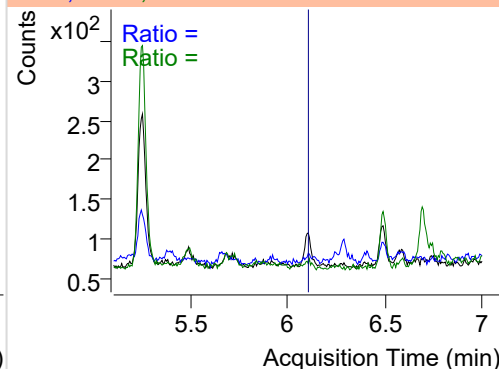
+ SIM (2.988-3.323 min, 62 scans) (**) 230112

**Acenaphthylene**

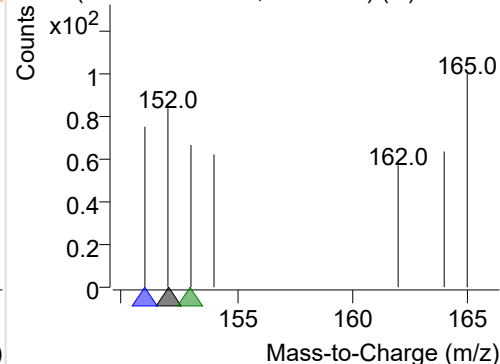
+ Selected Ion (152.0) 230112-PAHs-034.D



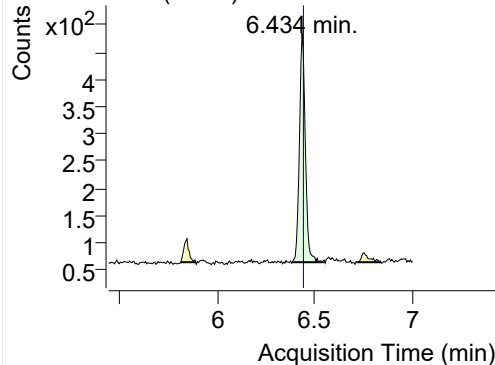
152.0, 151.0, 153.0



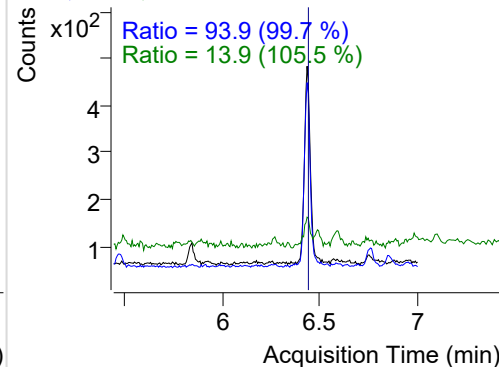
+ SIM (6.069-6.150 min, 14 scans) (**) 230112

**IS-D10-Acenaphthene**

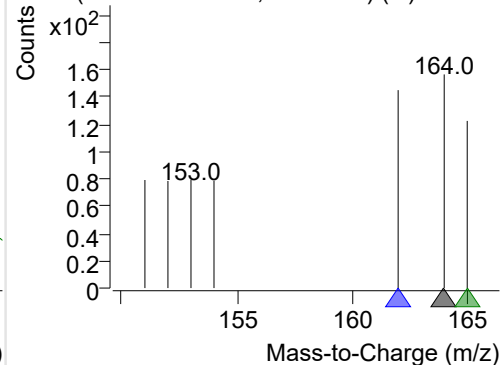
+ Selected Ion (164.0) 230112-PAHs-034.D



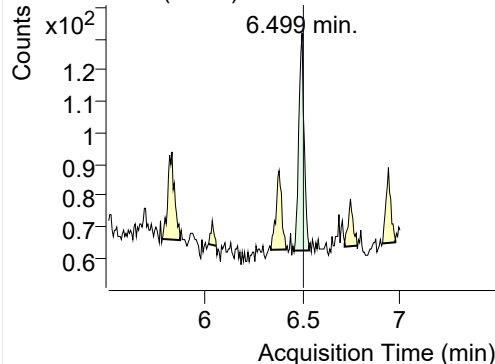
164.0, 162.0, 165.0



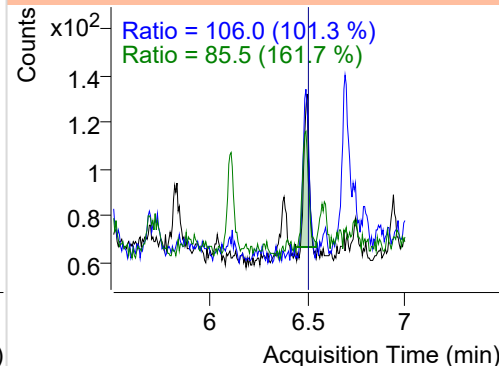
+ SIM (6.383-6.540 min, 27 scans) (**) 230112

**Acenaphthene**

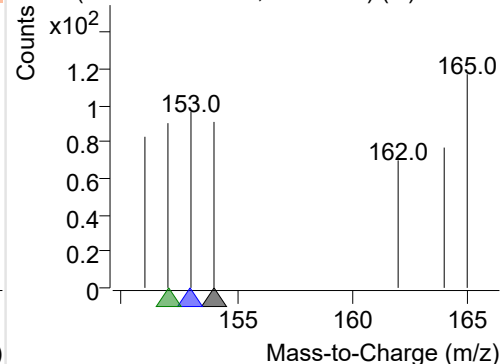
+ Selected Ion (154.0) 230112-PAHs-034.D



154.0, 153.0, 152.0

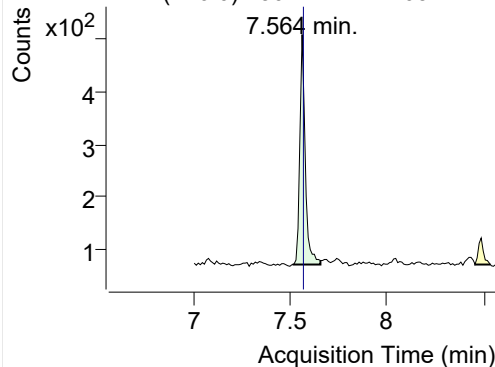


+ SIM (6.458-6.534 min, 13 scans) (**) 230112

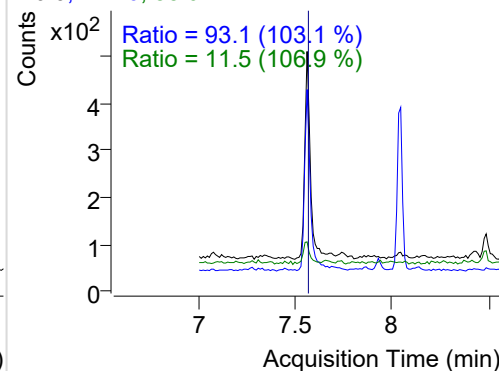


LSS-D10-Fluorene

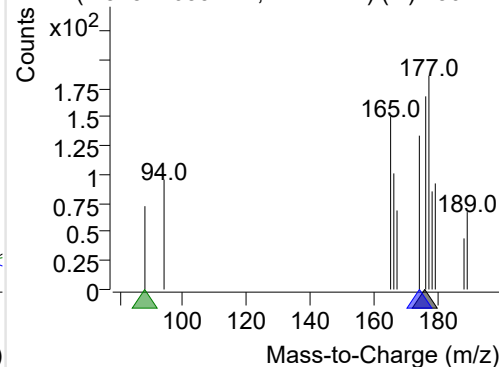
+ Selected Ion (176.0) 230112-PAHs-034.D



176.0, 174.0, 88.0

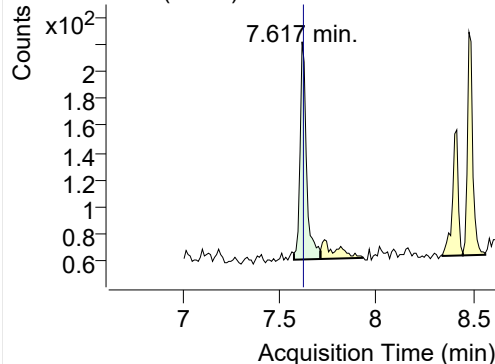


+ SIM (7.515-7.659 min, 14 scans) (**) 230112

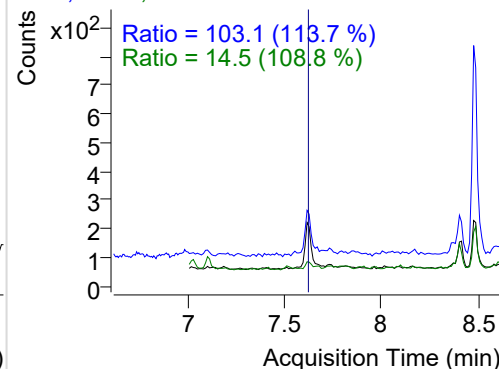


Fluorene

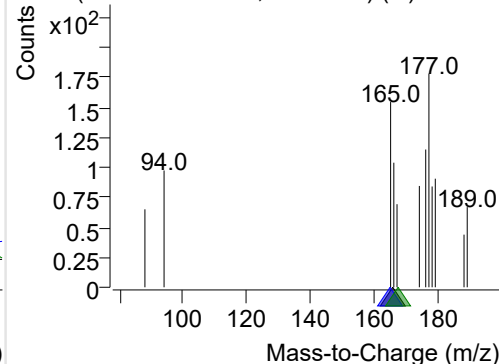
+ Selected Ion (166.0) 230112-PAHs-034.D



166.0, 165.0, 167.0

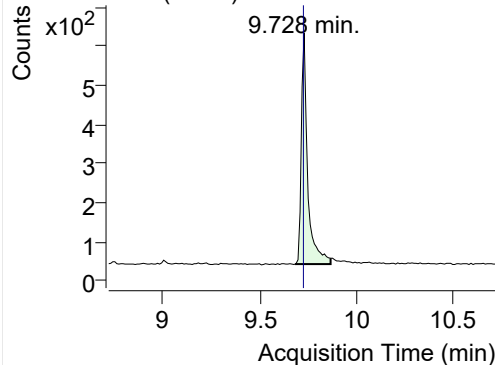


+ SIM (7.575-7.711 min, 14 scans) (**) 230112

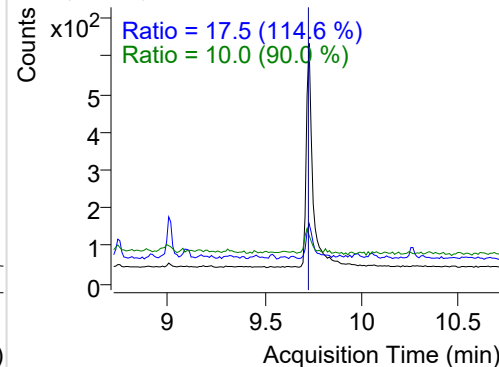


IS-D10-Phenanthrene

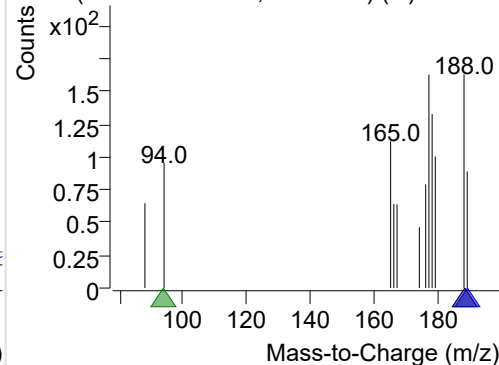
+ Selected Ion (188.0) 230112-PAHs-034.D



188.0, 189.0, 94.0

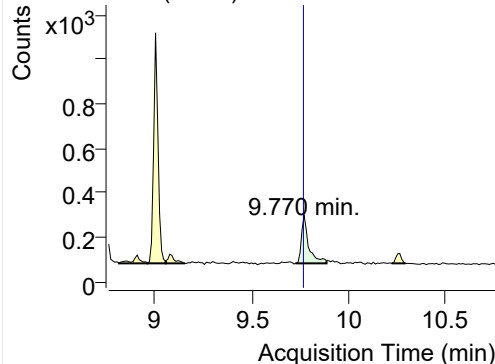


+ SIM (9.681-9.864 min, 18 scans) (**) 230112

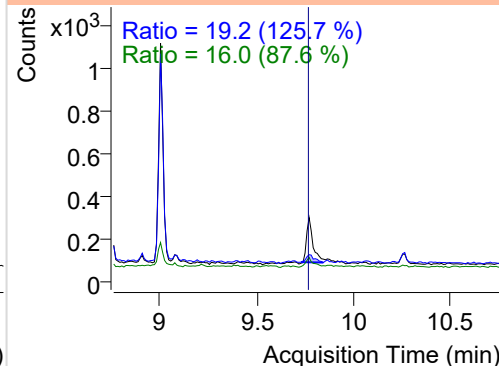


Phenanthrene

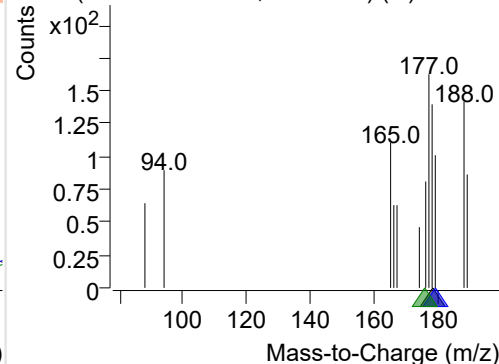
+ Selected Ion (178.0) 230112-PAHs-034.D



178.0, 179.0, 176.0

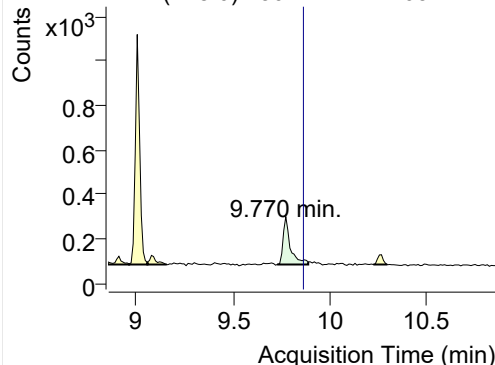


+ SIM (9.725-9.885 min, 16 scans) (**) 230112

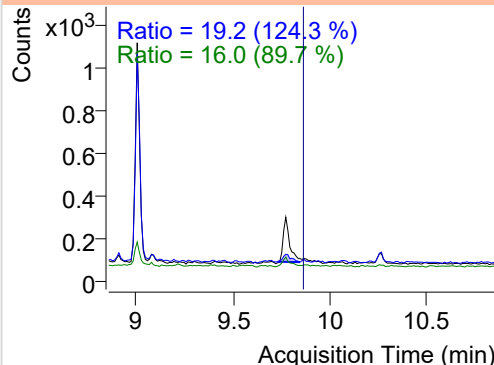


Anthracene

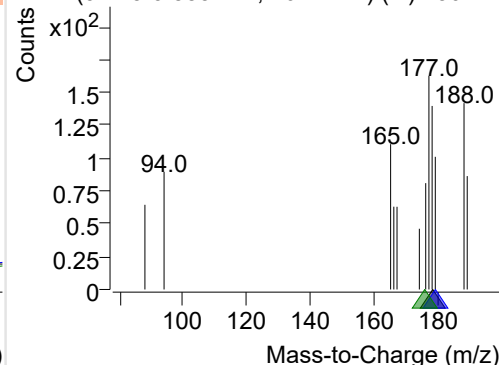
+ Selected Ion (178.0) 230112-PAHs-034.D



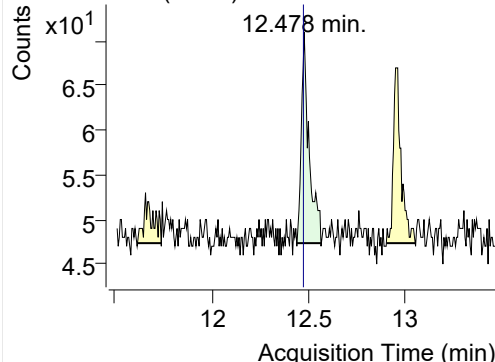
178.0, 179.0, 176.0



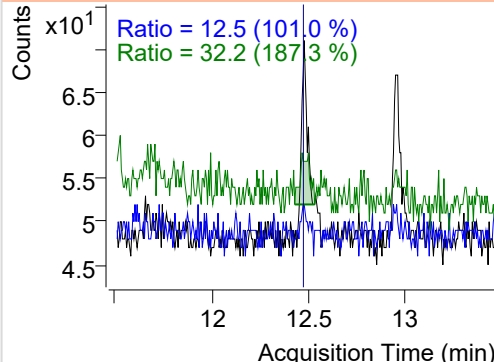
+ SIM (9.725-9.885 min, 16 scans) (**) 230112

**Fluoranthene**

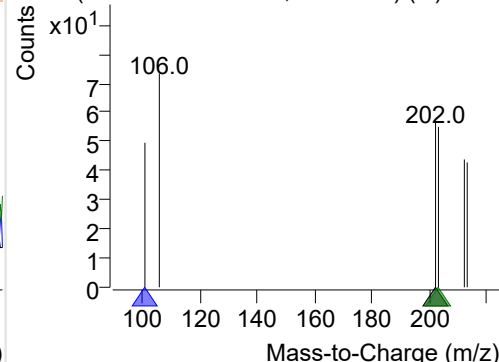
+ Selected Ion (202.0) 230112-PAHs-034.D



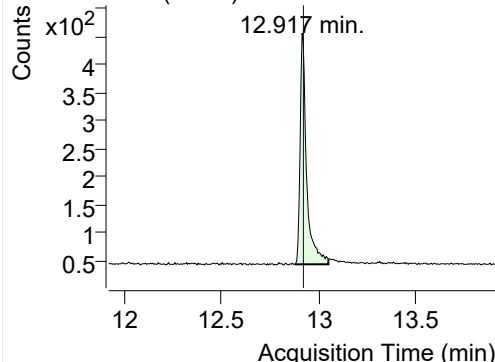
202.0, 101.0, 203.0



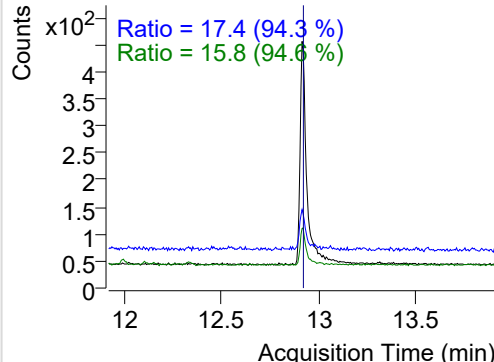
+ SIM (12.441-12.564 min, 22 scans) (**) 2301

**LSS-D10-Pyrene**

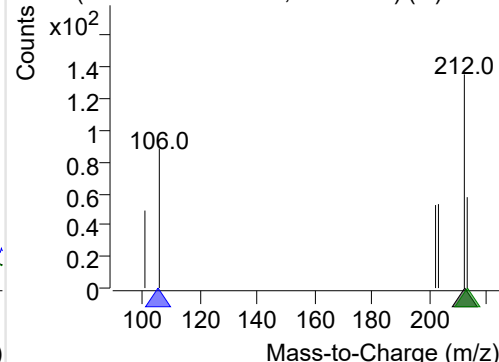
+ Selected Ion (212.0) 230112-PAHs-034.D



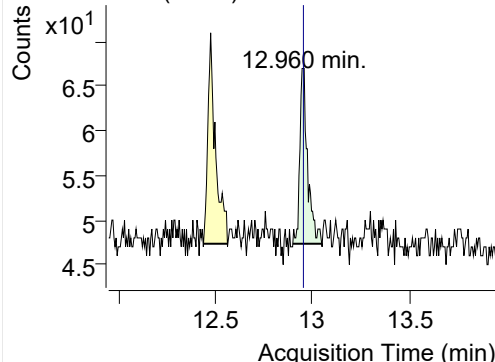
212.0, 106.0, 213.0



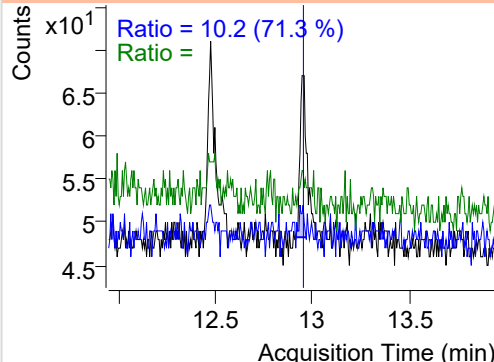
+ SIM (12.879-13.052 min, 32 scans) (**) 2301

**Pyrene**

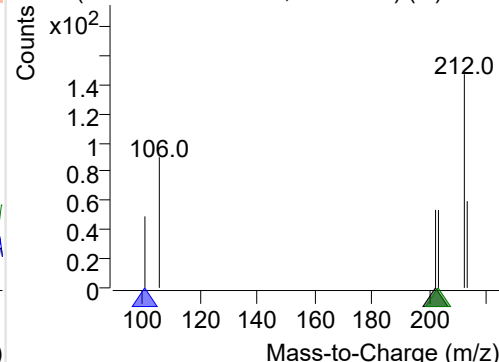
+ Selected Ion (202.0) 230112-PAHs-034.D



202.0, 101.0, 203.0



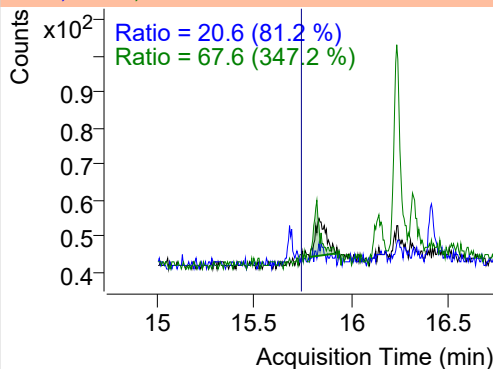
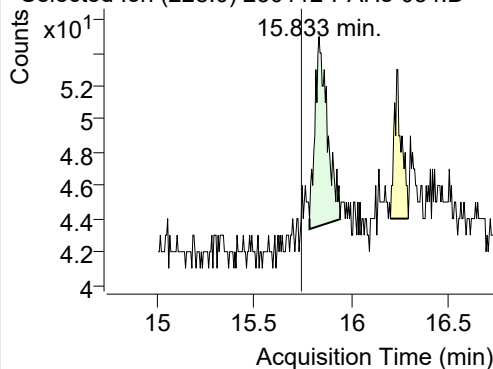
+ SIM (12.901-13.050 min, 27 scans) (**) 2301



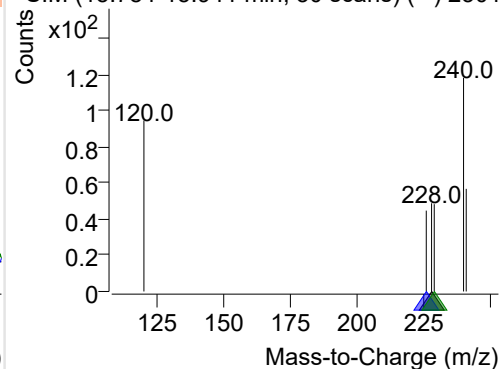
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-034.D

228.0, 226.0, 229.0

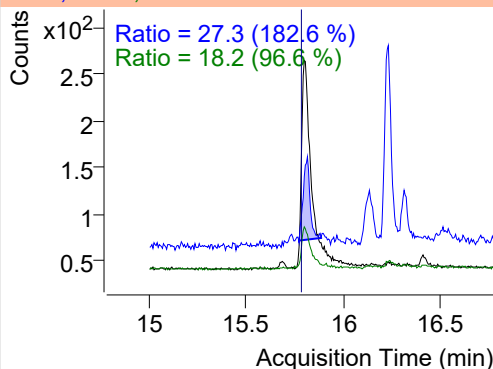
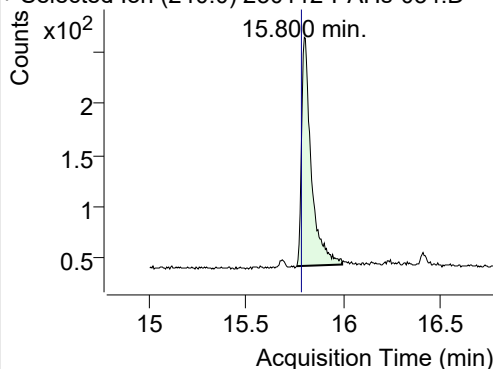


+ SIM (15.784-15.941 min, 30 scans) (**) 2301

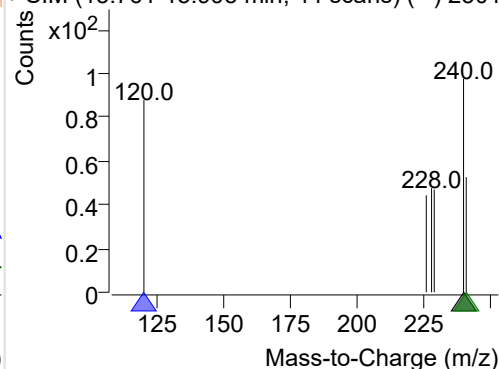
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-034.D

240.0, 120.0, 241.0

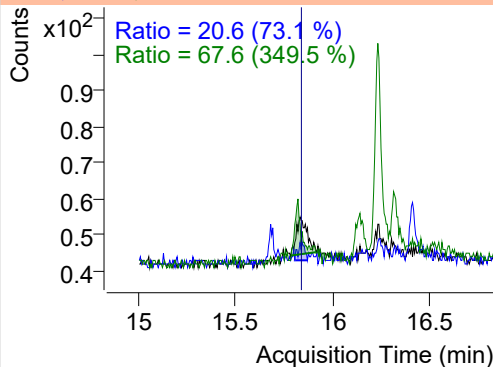
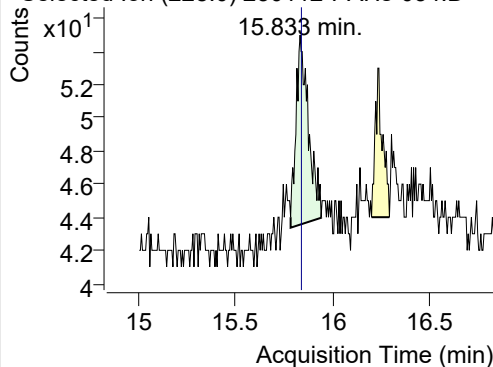


+ SIM (15.761-15.995 min, 44 scans) (**) 2301

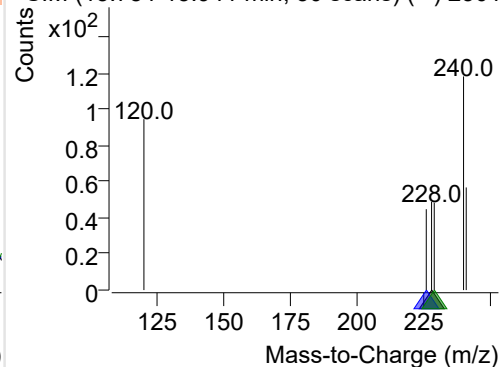
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-034.D

228.0, 226.0, 229.0

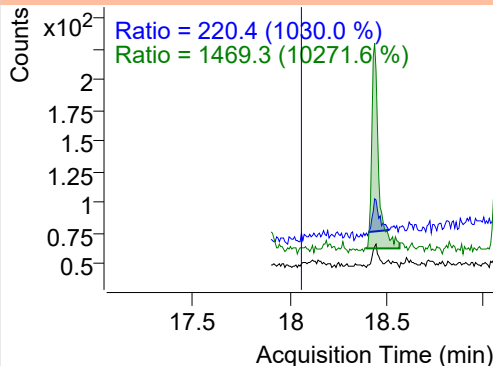
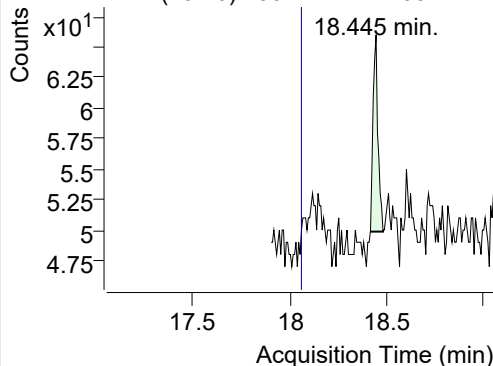


+ SIM (15.784-15.941 min, 30 scans) (**) 2301

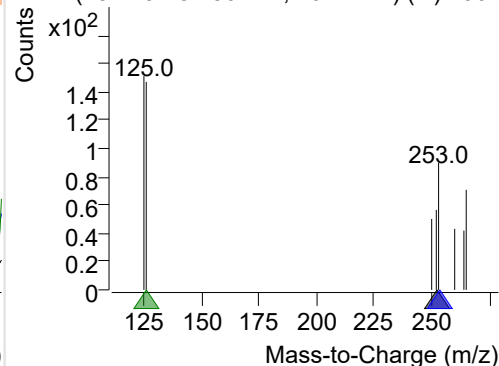
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-034.D

252.0, 253.0, 126.0



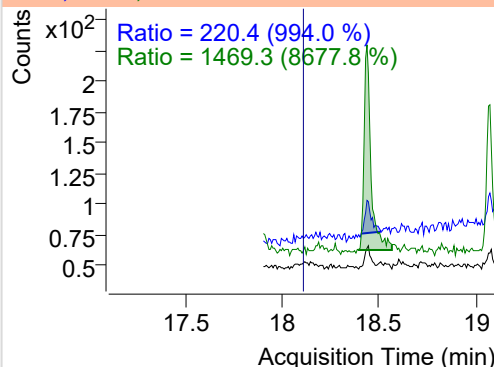
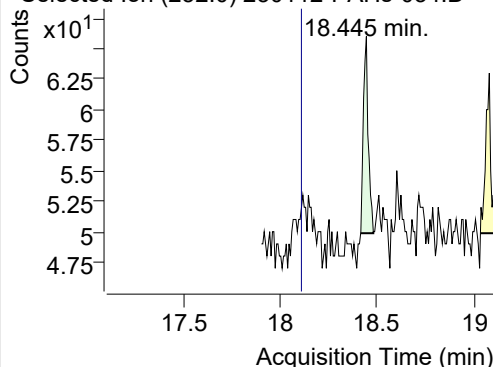
+ SIM (18.415-18.480 min, 10 scans) (**) 2301



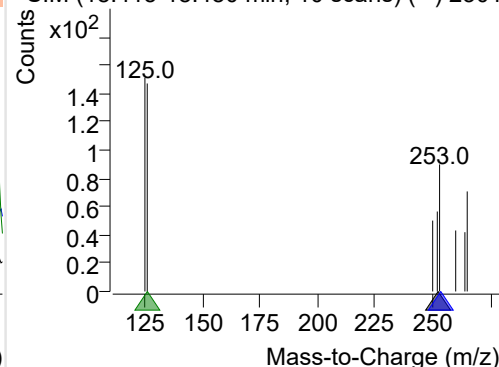
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-034.D

252.0, 253.0, 126.0

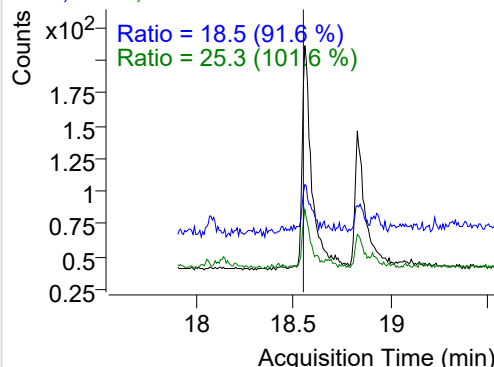
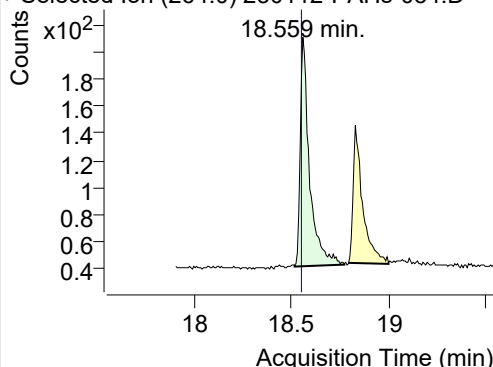


+ SIM (18.415-18.480 min, 10 scans) (**) 2301

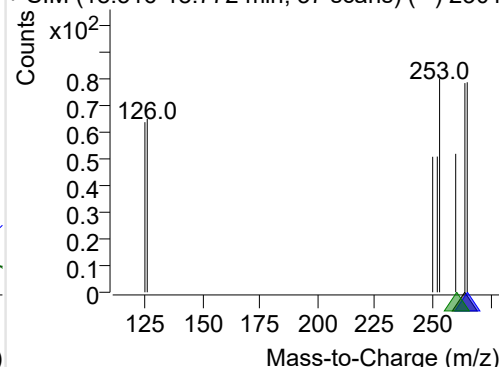
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-034.D

264.0, 265.0, 260.0

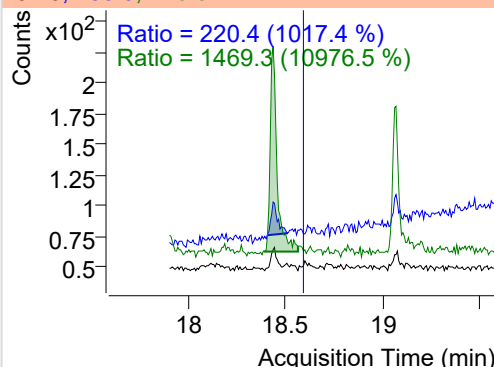
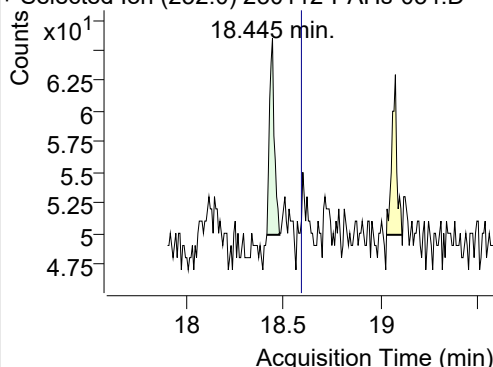


+ SIM (18.516-18.772 min, 37 scans) (**) 2301

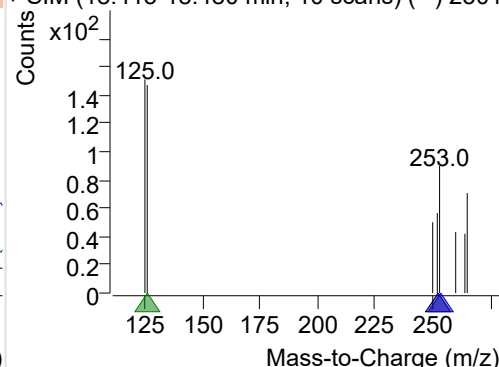
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-034.D

252.0, 253.0, 126.0

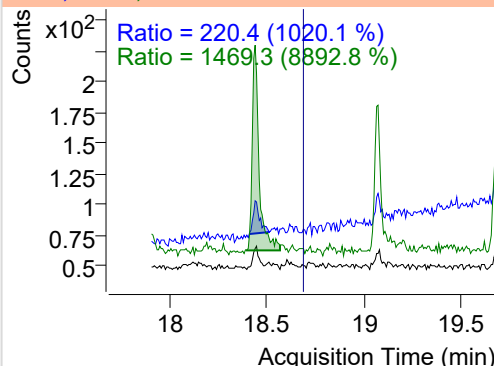
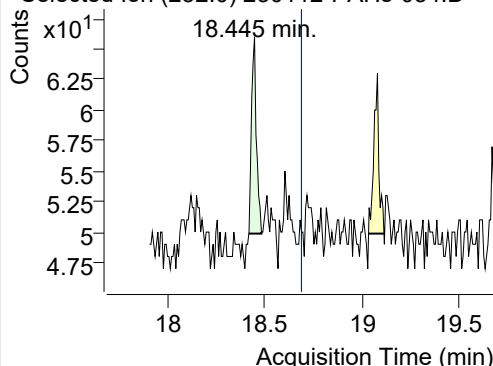


+ SIM (18.415-18.480 min, 10 scans) (**) 2301

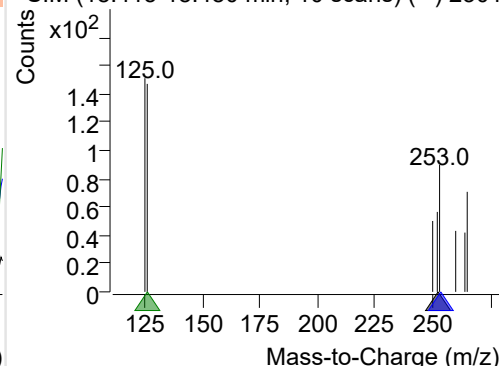
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-034.D

252.0, 253.0, 126.0



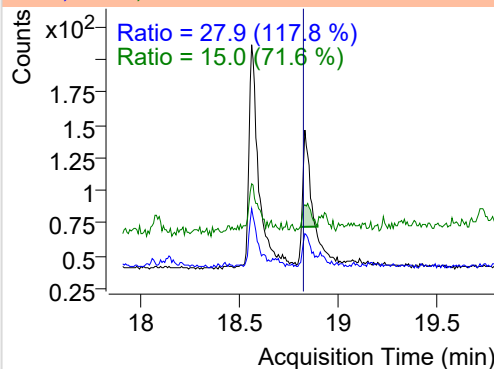
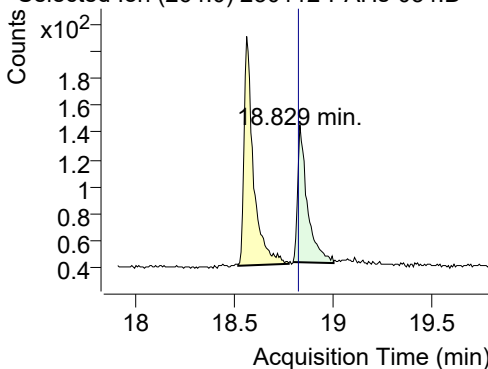
+ SIM (18.415-18.480 min, 10 scans) (**) 2301



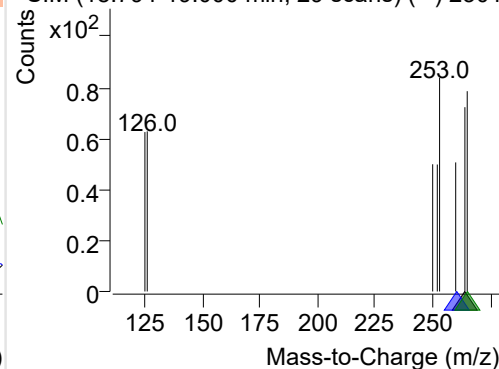
IS-D12-Perylene

+ Selected Ion (264.0) 230112-PAHs-034.D

264.0, 260.0, 265.0



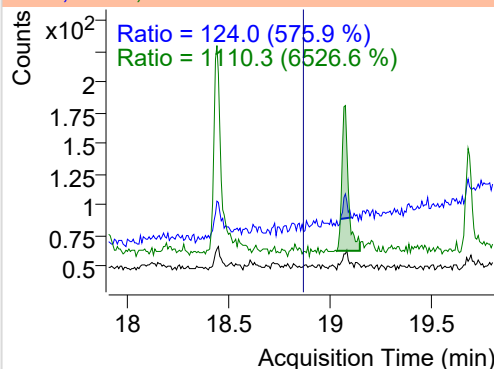
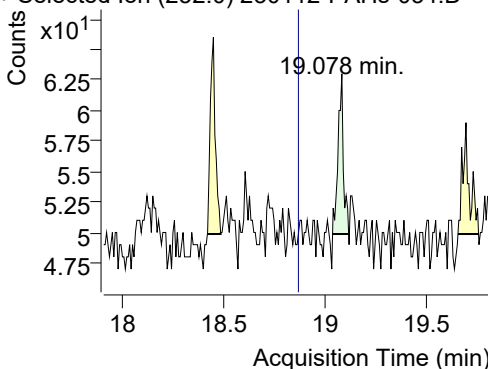
+ SIM (18.794-19.000 min, 29 scans) (**) 2301



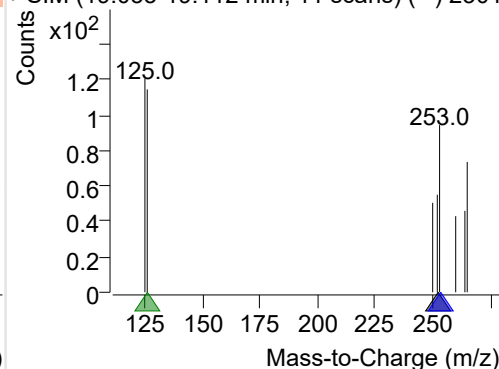
Perylene

+ Selected Ion (252.0) 230112-PAHs-034.D

252.0, 253.0, 126.0



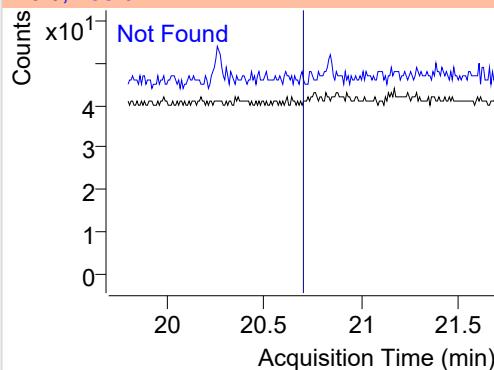
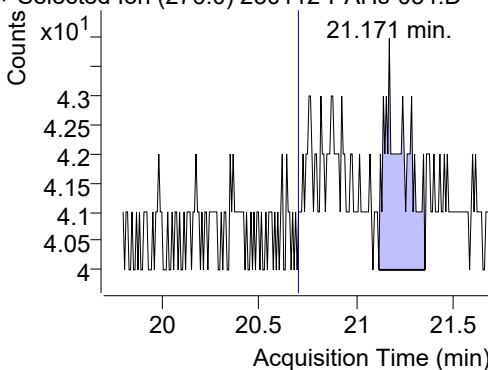
+ SIM (19.033-19.112 min, 11 scans) (**) 2301



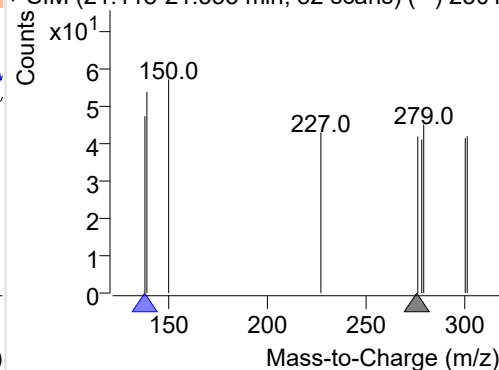
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 230112-PAHs-034.D

276.0, 138.0



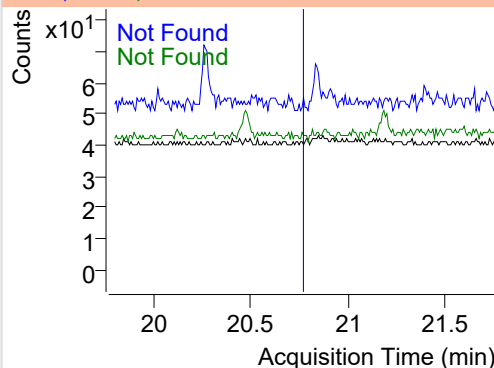
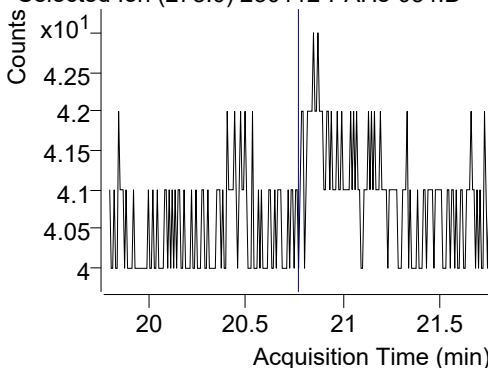
+ SIM (21.118-21.355 min, 32 scans) (**) 2301



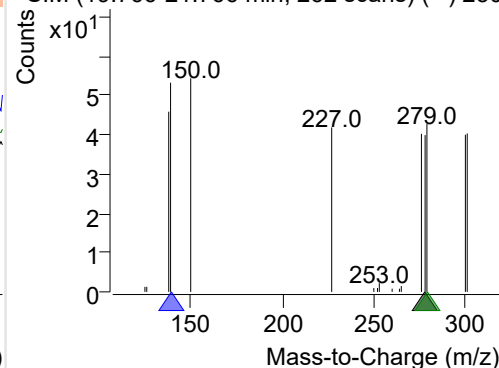
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-034.D

278.0, 139.0, 279.0



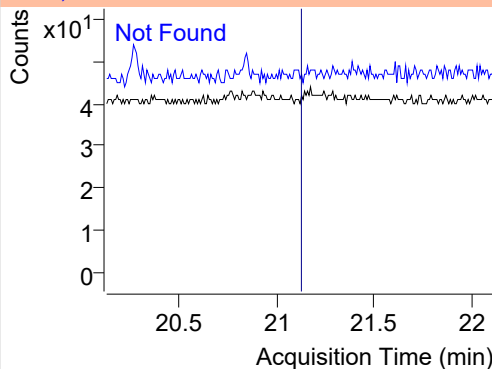
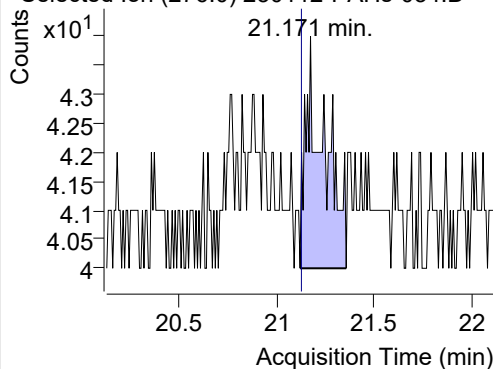
+ SIM (19.766-21.766 min, 262 scans) (**) 2301



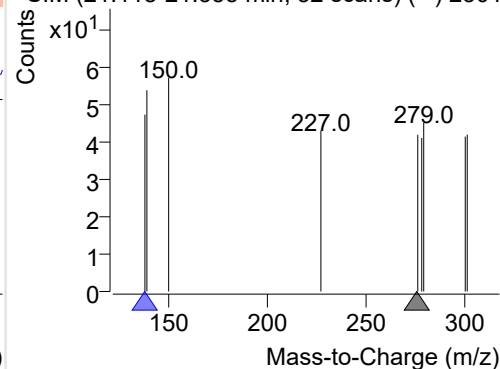
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-034.D

276.0, 138.0

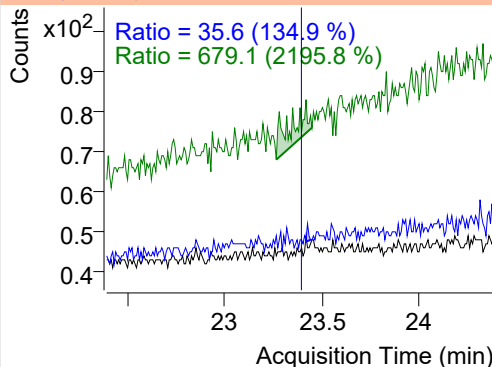
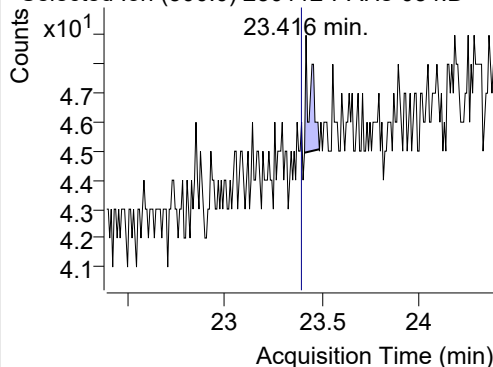


+ SIM (21.118-21.355 min, 32 scans) (**) 2301

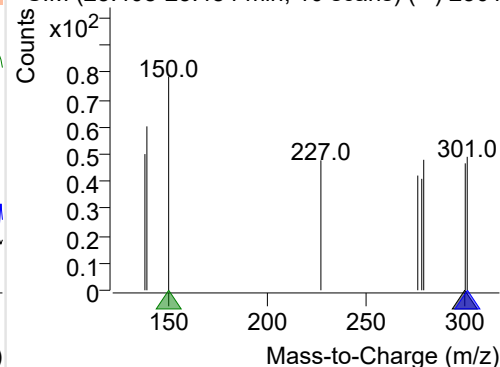
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-034.D

300.0, 301.0, 150.0



+ SIM (23.408-23.484 min, 10 scans) (**) 2301



Quantitative Analysis Sample Based Report

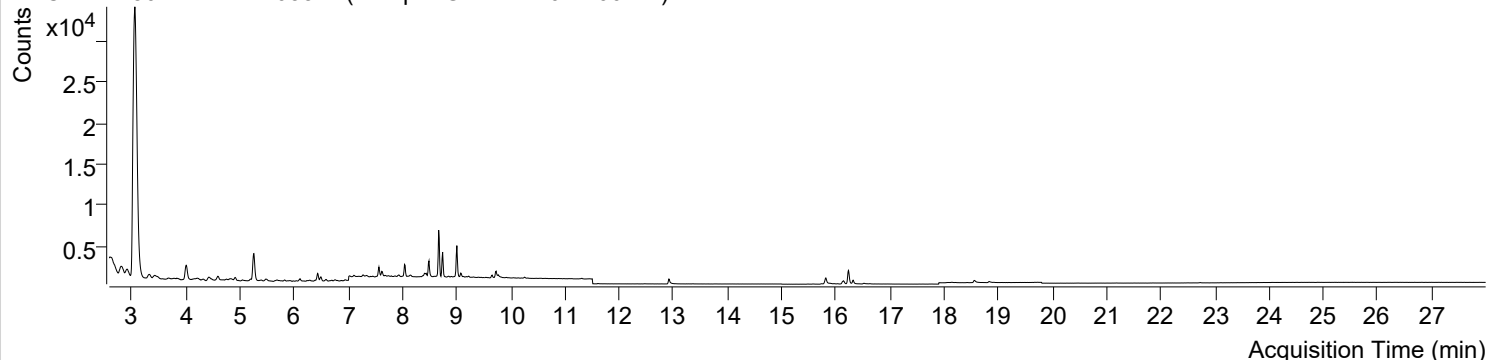


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 5:24:22	Data File	230112-PAHs-035.D
Type	Sample	Name	Sample-Gas-221207-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

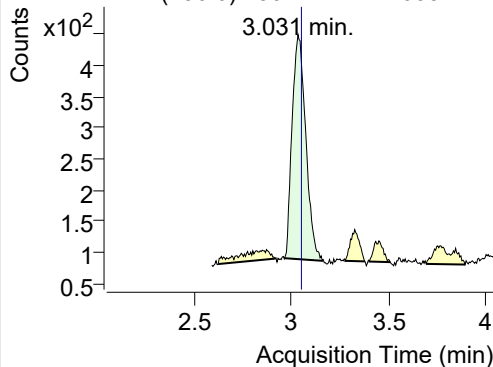
+ TIC SIM 230112-PAHs-035.D (Sample-Gas-221207-100DIL)



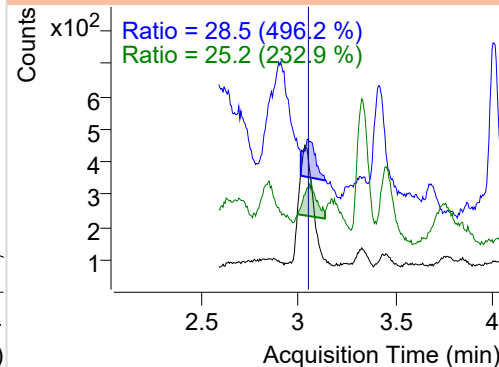
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	1756	360.31	ND ng/ml	25.2
Naphthalene	3.058	128.0	132404	26469.00	ND ng/ml	12.3
Acenaphthylene	6.108	152.0	447	205.88	ND ng/ml	23.0
IS-D10-Acenaphthene	6.434	164.0	992	456.83	ND ng/ml	94.9
Acenaphthene	6.493	154.0	251	116.79	ND ng/ml	111.2
LSS-D10-Fluorene	7.564	176.0	982	499.52	ND ng/ml	89.0
Fluorene	7.617	166.0	578	276.64	ND ng/ml	114.1
IS-D10-Phenanthrene	9.727	188.0	1480	627.26	ND ng/ml	20.0
Phenanthrene	9.769	178.0	381	149.94	ND ng/ml	18.9
Anthracene	9.769	178.0	381	149.94	ND ng/ml	18.9
Fluoranthene	12.472	202.0	45	14.51	ND ng/ml	14.2
LSS-D10-Pyrene	12.917	212.0	1030	446.54	ND ng/ml	17.7
Pyrene	12.949	202.0	49	17.51	ND ng/ml	12.3
Benz(a)anthracene	15.822	228.0	74	17.87	ND ng/ml	36.9
IS-D12-Chrysene	15.806	240.0	921	224.48	ND ng/ml	23.5
Chrysene	15.822	228.0	74	17.87	ND ng/ml	36.9
Benzo(b)fluoranthene	18.160	252.0	14	4.79	ND ng/ml	
Benzo(k)fluoranthene	18.160	252.0	14	4.79	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.559	264.0	612	185.39	ND ng/ml	26.1
Benzo(e)pyrene	18.601	252.0	9	3.79	ND ng/ml	
Benzo(a)pyrene	18.701	252.0	4	2.79	ND ng/ml	
IS-D12-Perylene	18.829	264.0	273	86.62	ND ng/ml	24.5
Perylene	18.701	252.0	4	2.79	ND ng/ml	
Indeno(1,2,3-c,d)pyrene		276.0			ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene		276.0			ND ng/ml	
Coronene	23.439	300.0	4	3.35	ND ng/ml	

IS-D8-Naphthalene

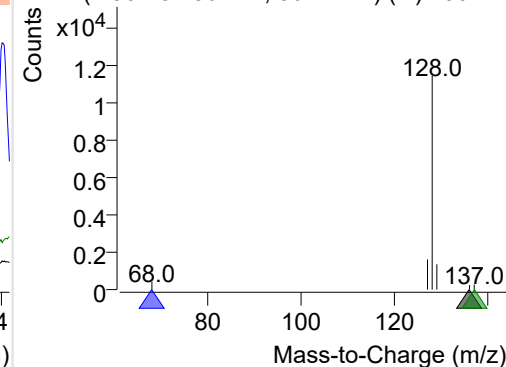
+ Selected Ion (136.0) 230112-PAHs-035.D



136.0, 68.0, 137.0

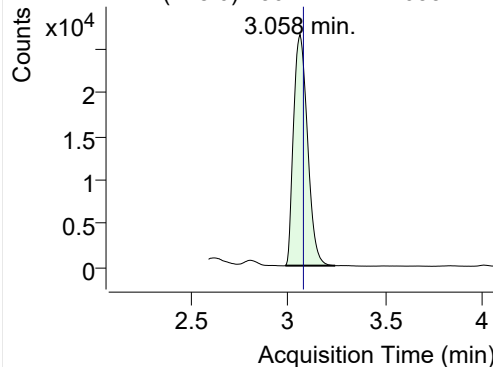


+ SIM (2.962-3.156 min, 36 scans) (**) 230112

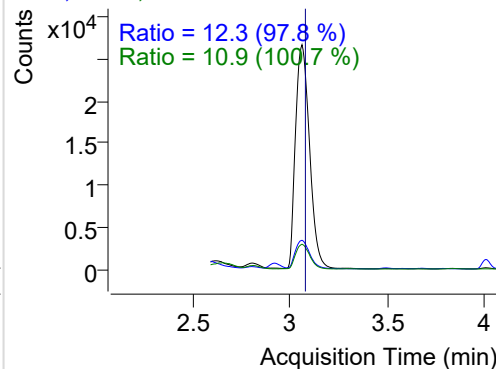


Naphthalene

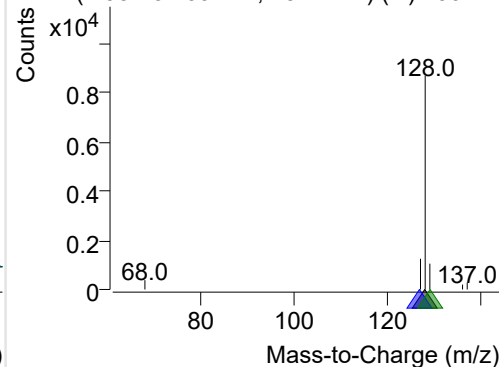
+ Selected Ion (128.0) 230112-PAHs-035.D



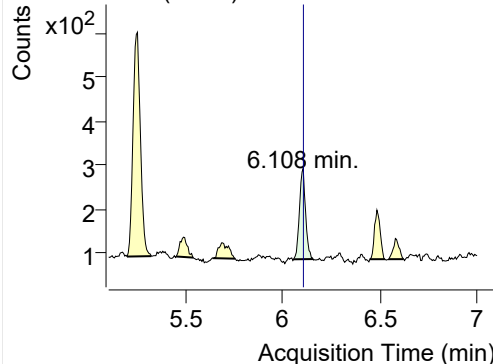
128.0, 127.0, 129.0



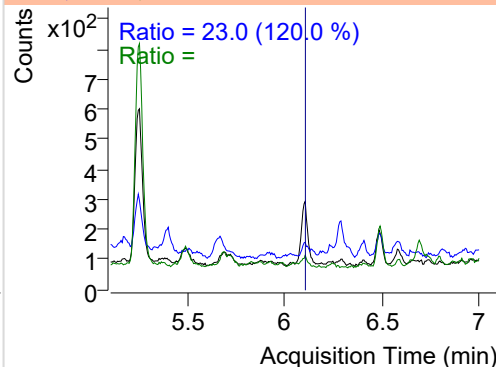
+ SIM (2.982-3.239 min, 48 scans) (**) 230112

**Acenaphthylene**

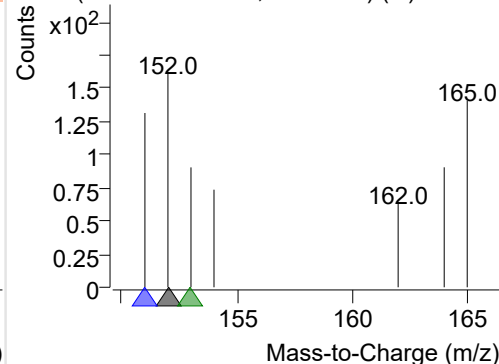
+ Selected Ion (152.0) 230112-PAHs-035.D



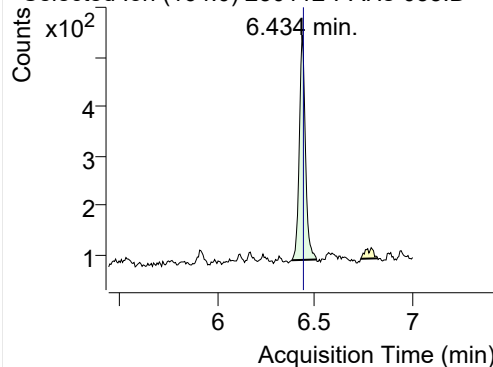
152.0, 151.0, 153.0



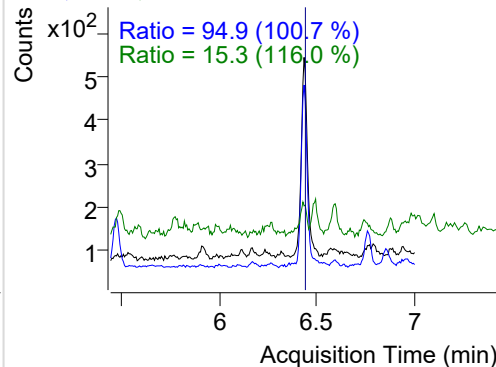
+ SIM (6.058-6.158 min, 17 scans) (**) 230112

**IS-D10-Acenaphthene**

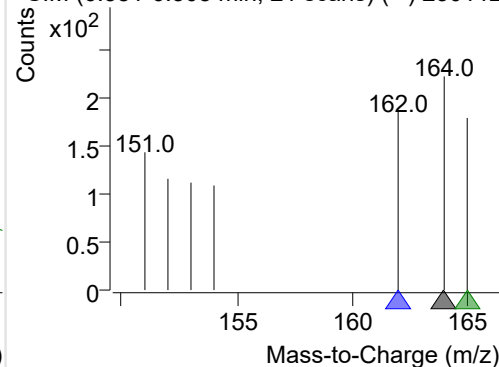
+ Selected Ion (164.0) 230112-PAHs-035.D



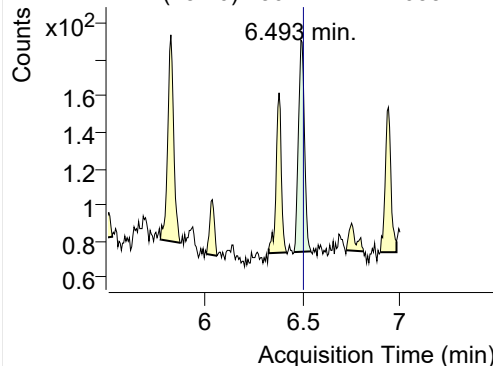
164.0, 162.0, 165.0



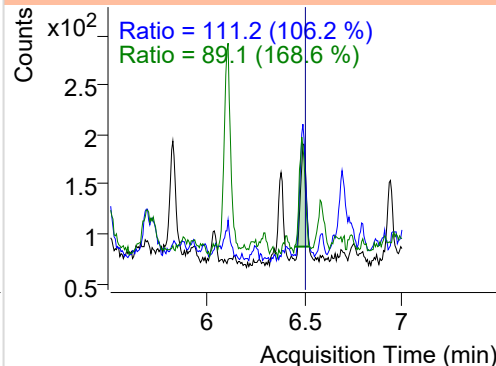
+ SIM (6.381-6.508 min, 21 scans) (**) 230112

**Acenaphthene**

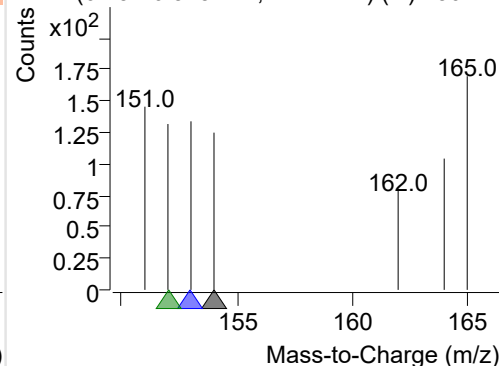
+ Selected Ion (154.0) 230112-PAHs-035.D



154.0, 153.0, 152.0

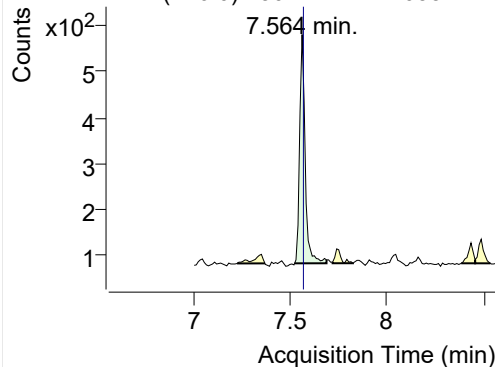


+ SIM (6.457-6.545 min, 14 scans) (**) 230112

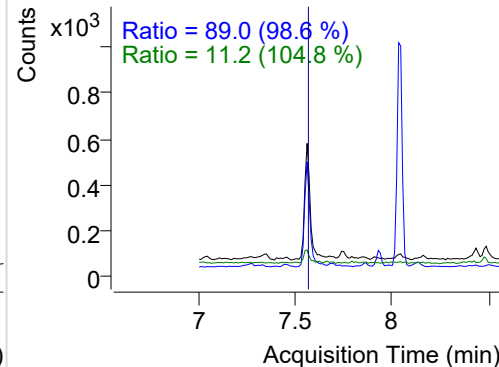


LSS-D10-Fluorene

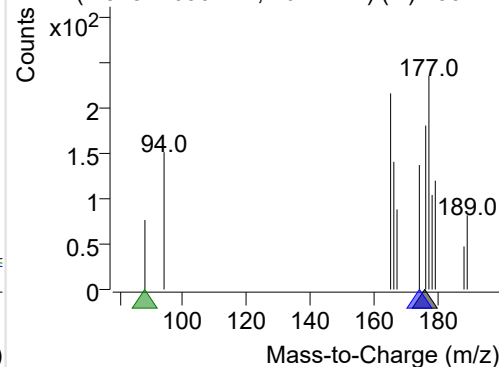
+ Selected Ion (176.0) 230112-PAHs-035.D



176.0, 174.0, 88.0

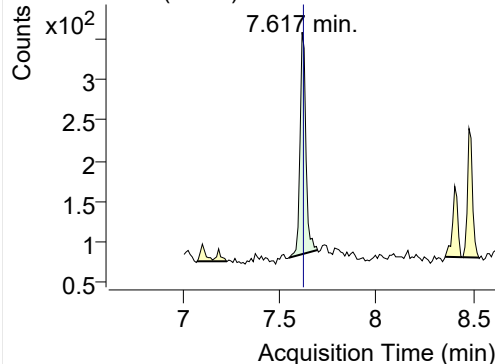


+ SIM (7.525-7.690 min, 16 scans) (**) 230112

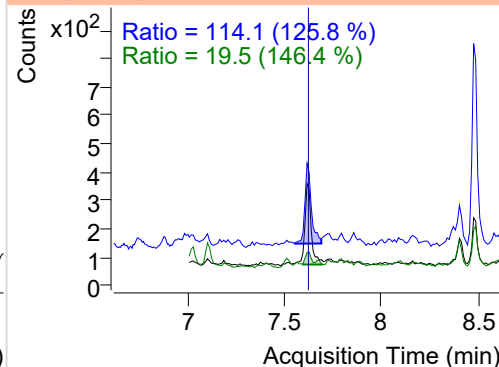


Fluorene

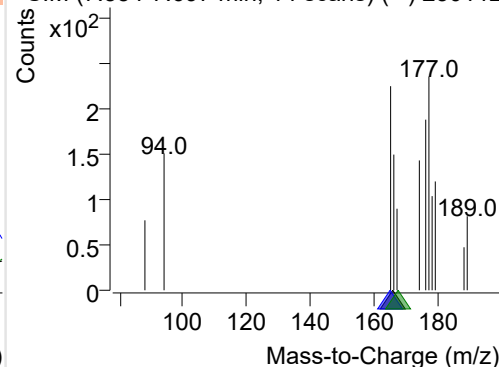
+ Selected Ion (166.0) 230112-PAHs-035.D



166.0, 165.0, 167.0

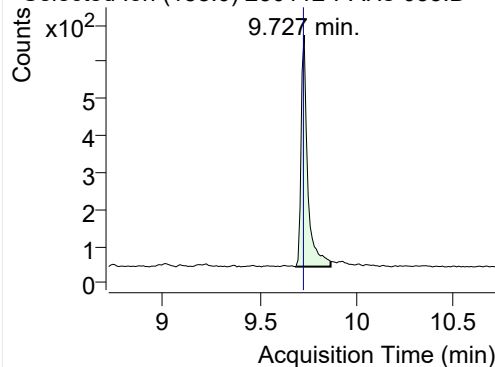


+ SIM (7.554-7.697 min, 14 scans) (**) 230112

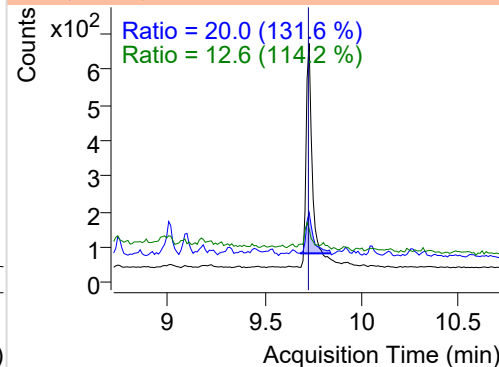


IS-D10-Phenanthrene

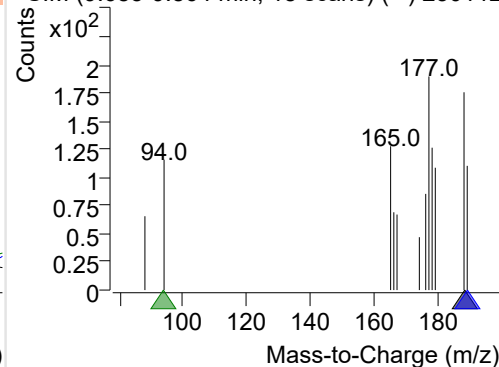
+ Selected Ion (188.0) 230112-PAHs-035.D



188.0, 189.0, 94.0

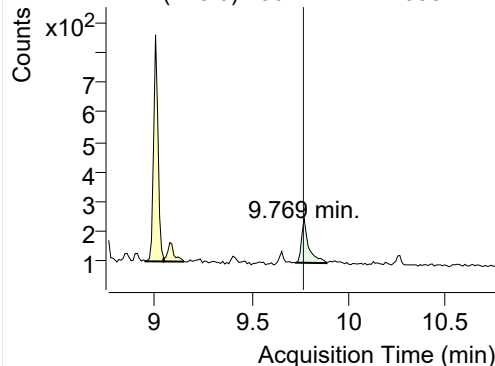


+ SIM (9.685-9.864 min, 18 scans) (**) 230112

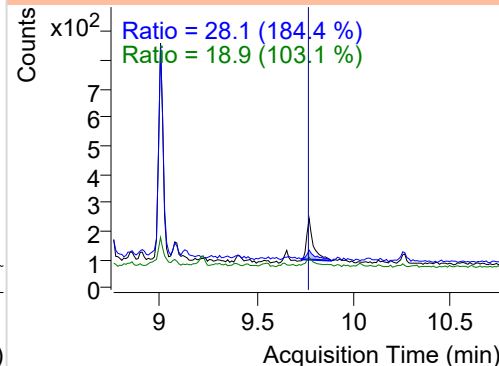


Phenanthrene

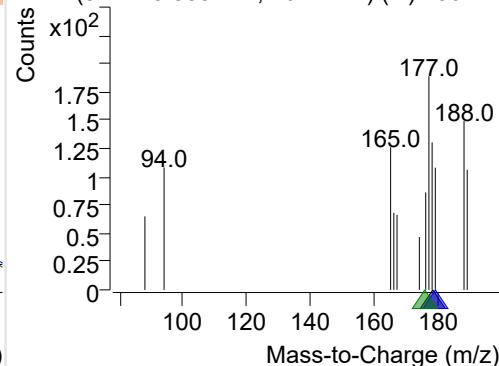
+ Selected Ion (178.0) 230112-PAHs-035.D



178.0, 179.0, 176.0

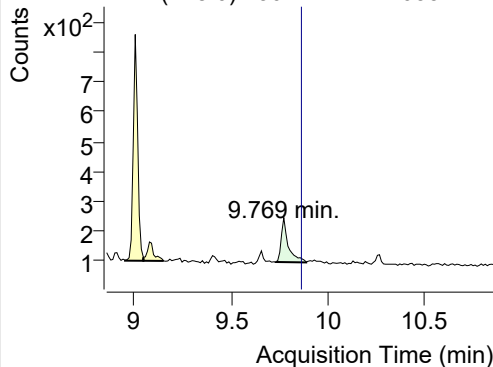


+ SIM (9.727-9.885 min, 16 scans) (**) 230112

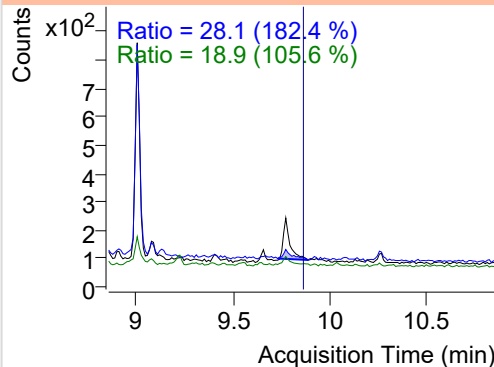


Anthracene

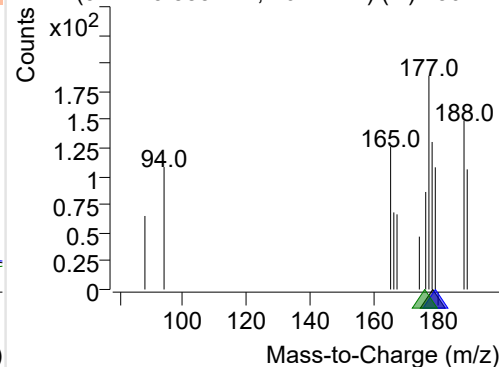
+ Selected Ion (178.0) 230112-PAHs-035.D



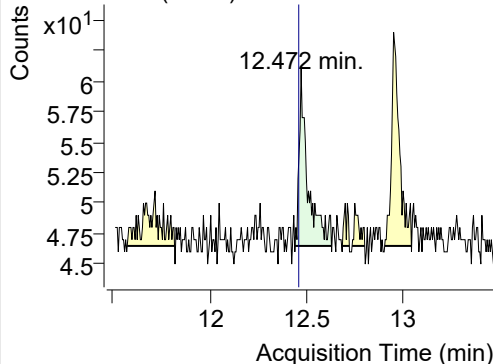
178.0, 179.0, 176.0



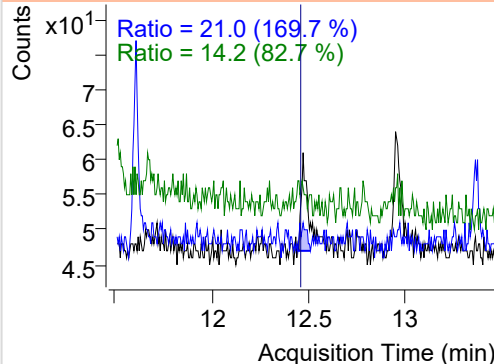
+ SIM (9.727-9.885 min, 16 scans) (**) 230112

**Fluoranthene**

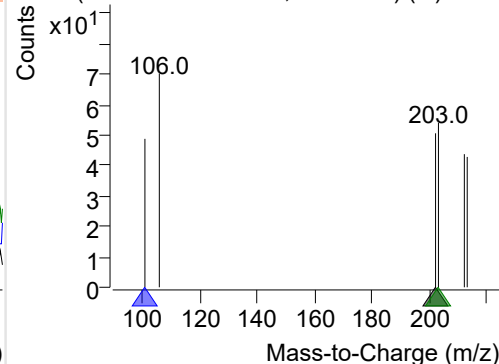
+ Selected Ion (202.0) 230112-PAHs-035.D



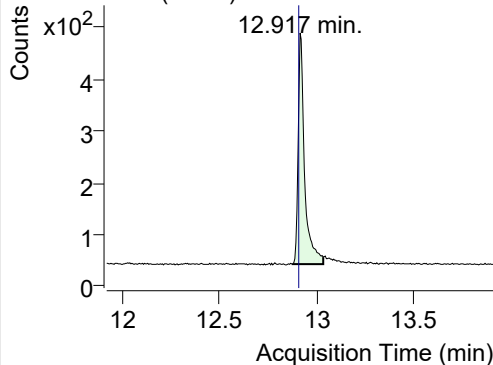
202.0, 101.0, 203.0



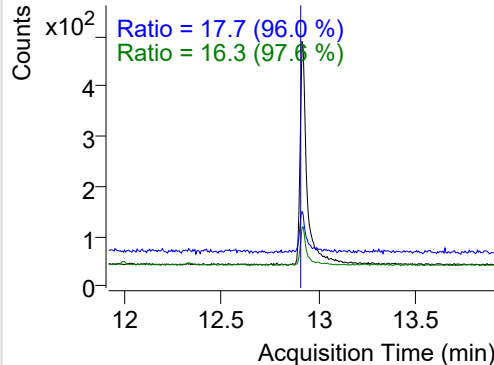
+ SIM (12.441-12.628 min, 34 scans) (**) 2301

**LSS-D10-Pyrene**

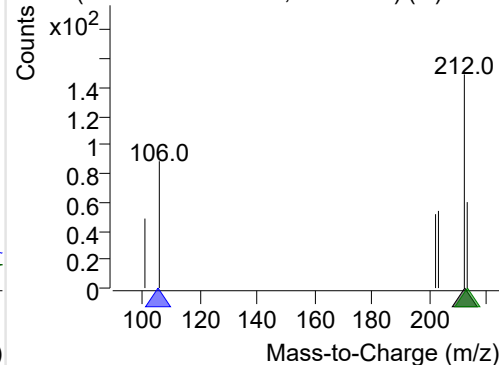
+ Selected Ion (212.0) 230112-PAHs-035.D



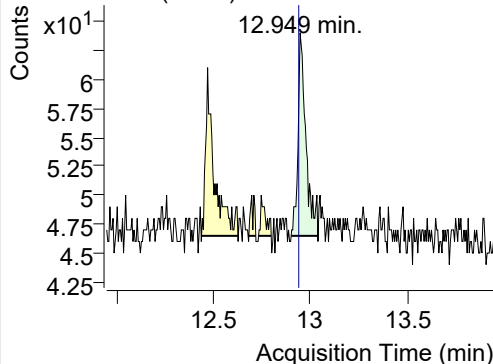
212.0, 106.0, 213.0



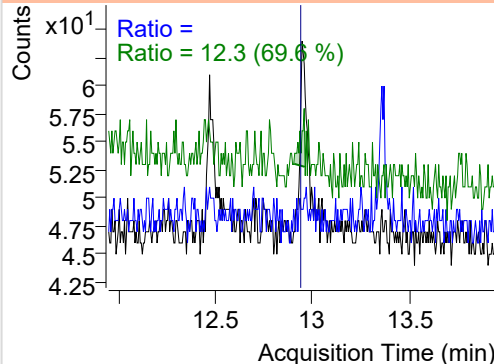
+ SIM (12.879-13.036 min, 30 scans) (**) 2301

**Pyrene**

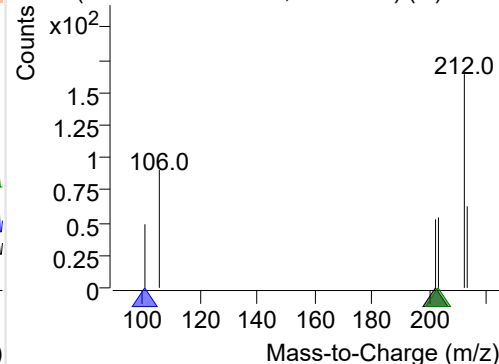
+ Selected Ion (202.0) 230112-PAHs-035.D



202.0, 101.0, 203.0



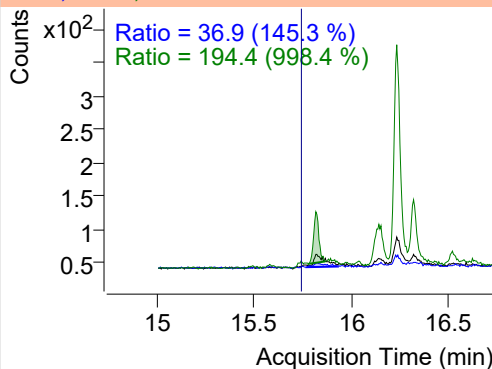
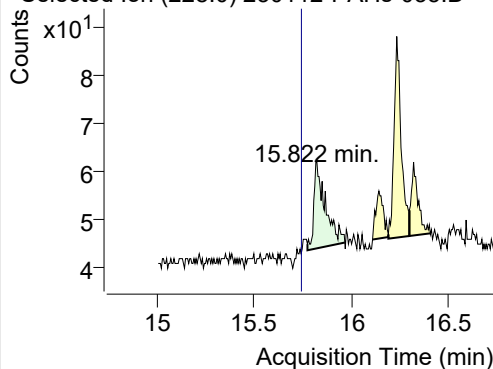
+ SIM (12.903-13.041 min, 25 scans) (**) 2301



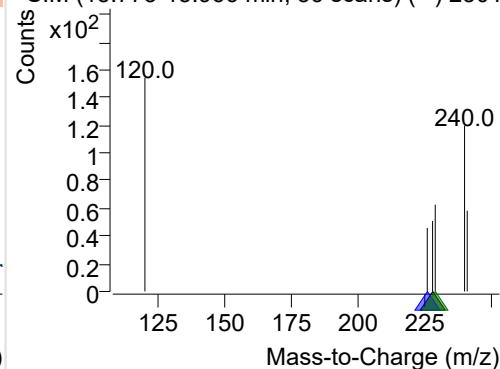
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-035.D

228.0, 226.0, 229.0

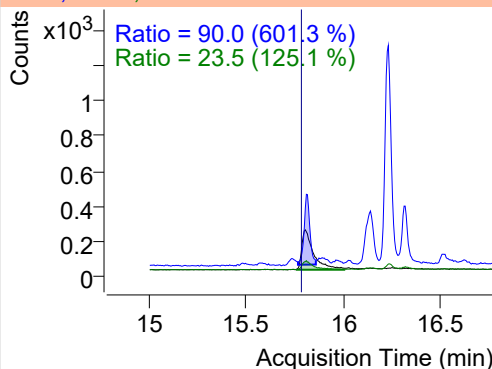
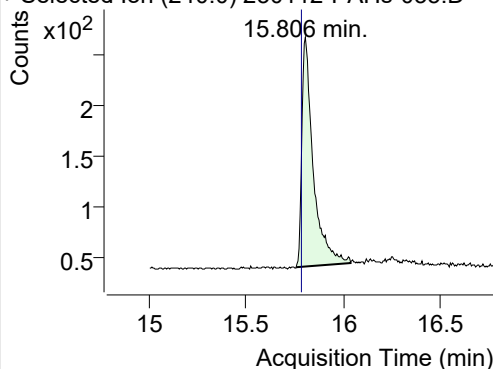


+ SIM (15.773-15.966 min, 36 scans) (**) 2301

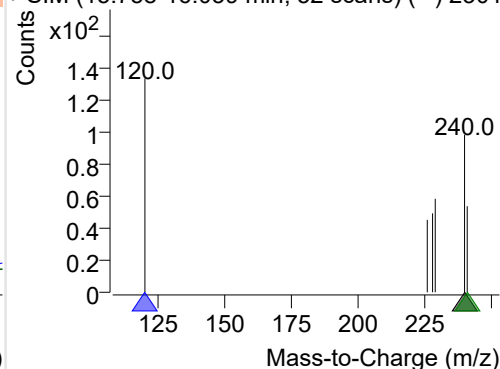
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-035.D

240.0, 120.0, 241.0

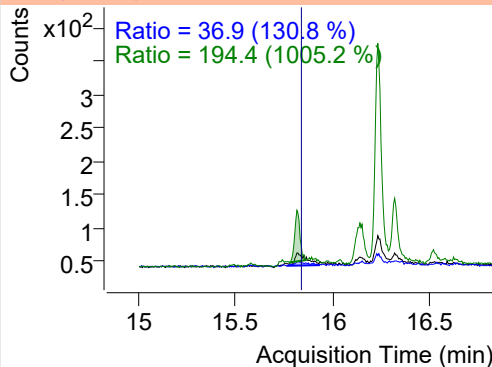
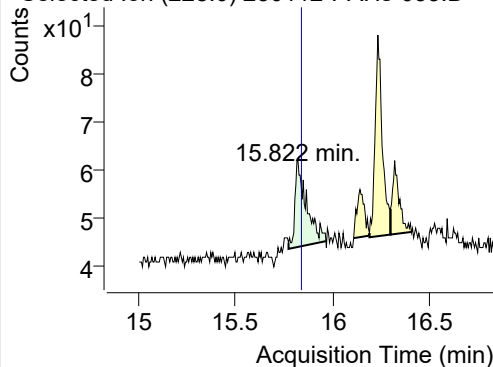


+ SIM (15.758-16.039 min, 52 scans) (**) 2301

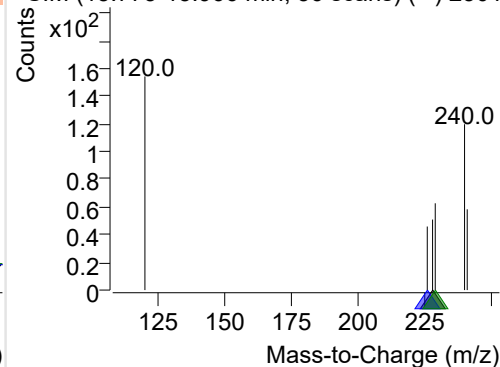
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-035.D

228.0, 226.0, 229.0

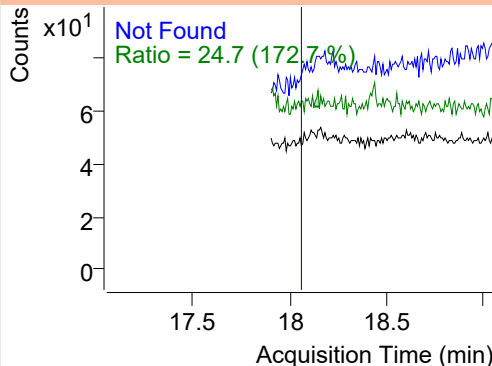
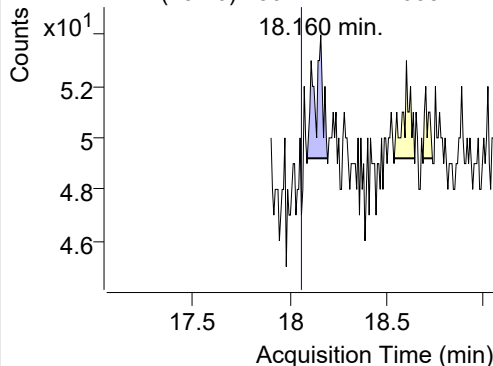


+ SIM (15.773-15.966 min, 36 scans) (**) 2301

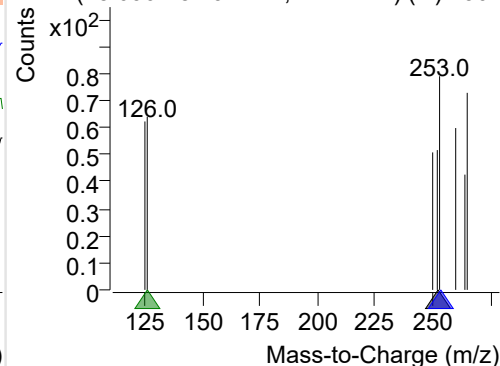
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-035.D

252.0, 253.0, 126.0



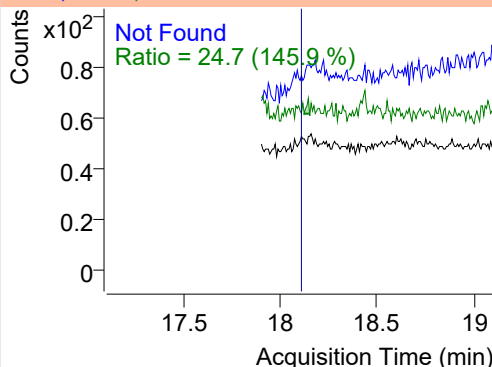
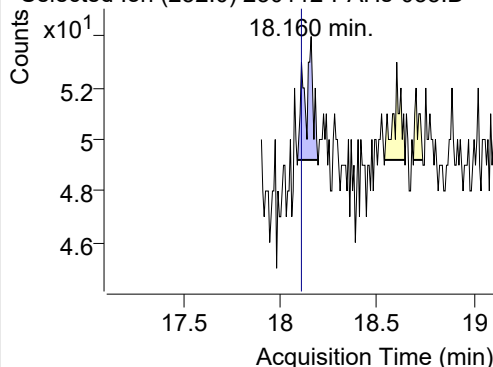
+ SIM (18.090-18.194 min, 14 scans) (**) 2301



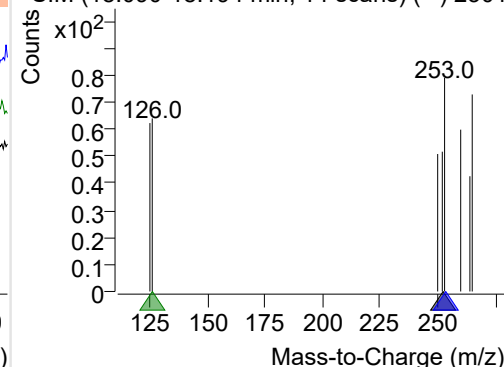
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-035.D

252.0, 253.0, 126.0

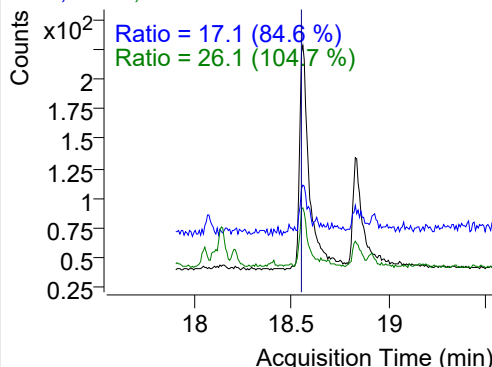
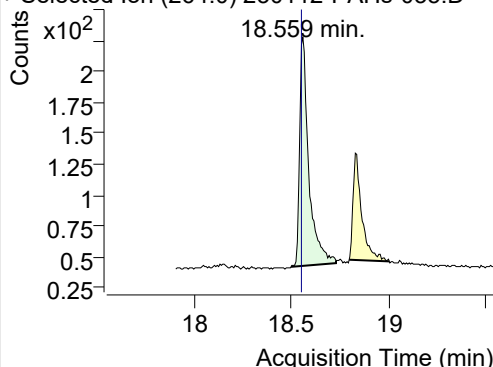


+ SIM (18.090-18.194 min, 14 scans) (**) 2301

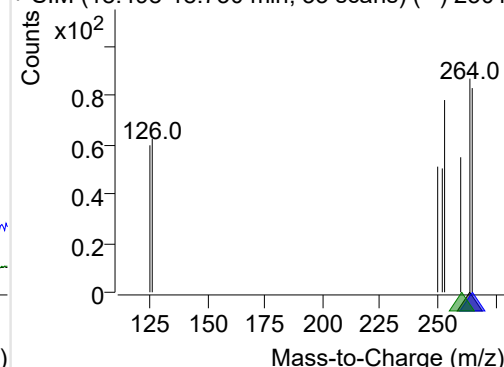
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-035.D

264.0, 265.0, 260.0

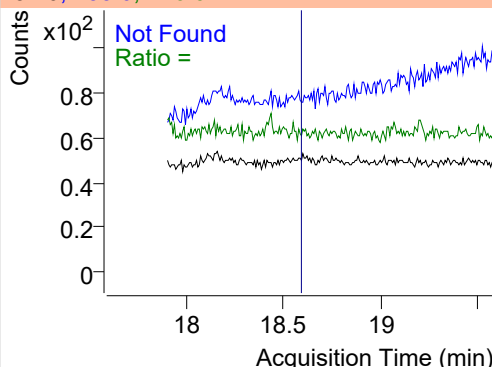
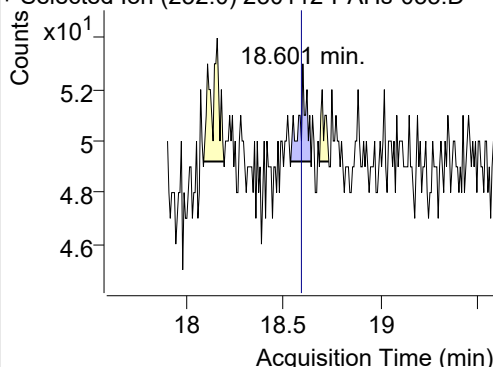


+ SIM (18.498-18.730 min, 33 scans) (**) 2301

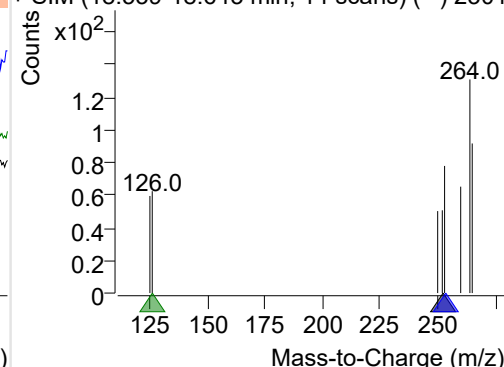
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-035.D

252.0, 253.0, 126.0

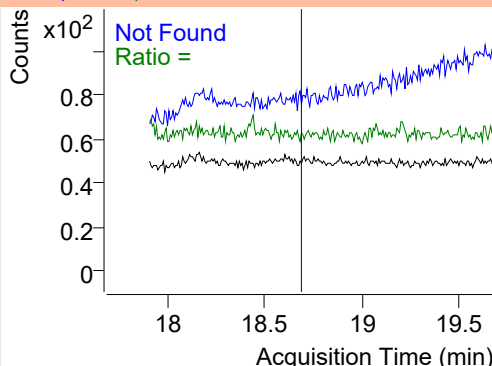
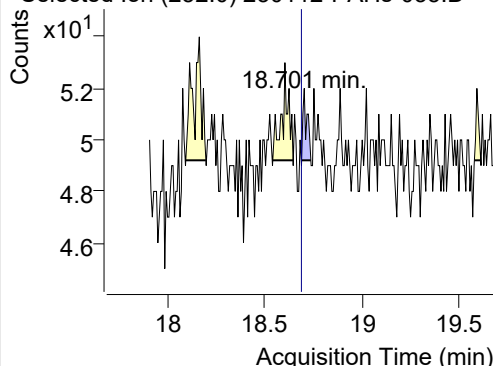


+ SIM (18.539-18.643 min, 14 scans) (**) 2301

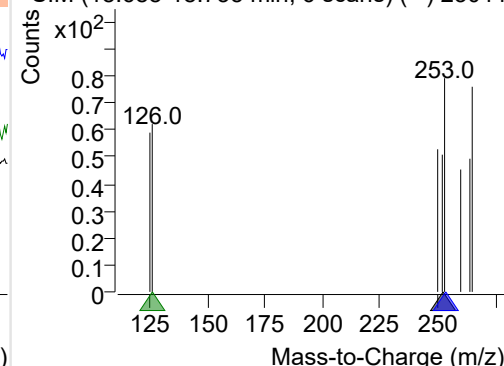
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-035.D

252.0, 253.0, 126.0

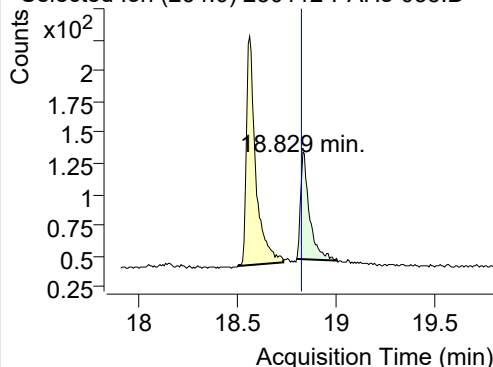


+ SIM (18.688-18.735 min, 6 scans) (**) 23011

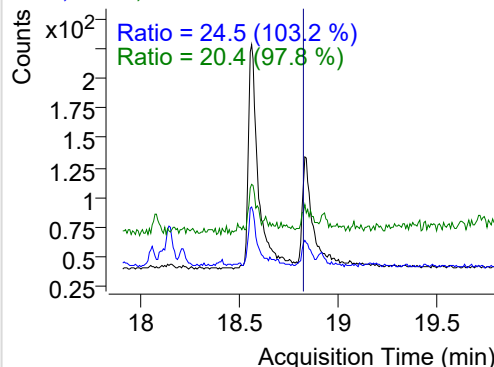


IS-D12-Perylene

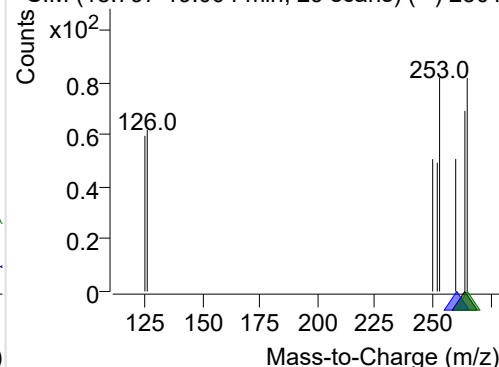
+ Selected Ion (264.0) 230112-PAHs-035.D



264.0, 260.0, 265.0

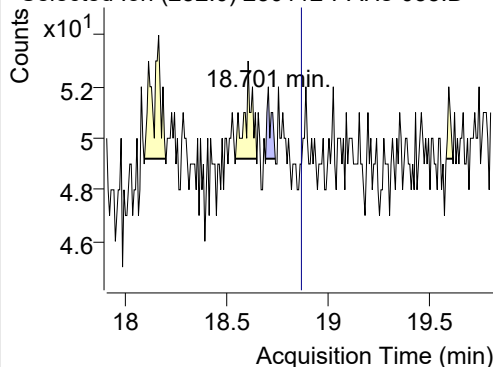


+ SIM (18.797-19.004 min, 29 scans) (**) 2301

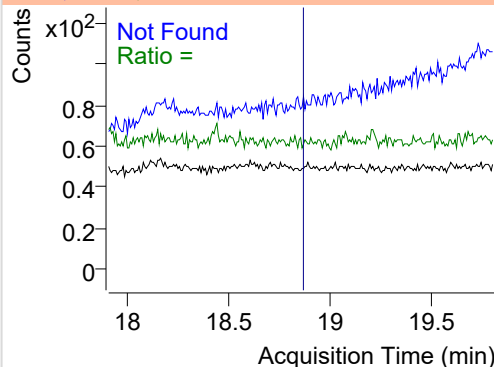


Perylene

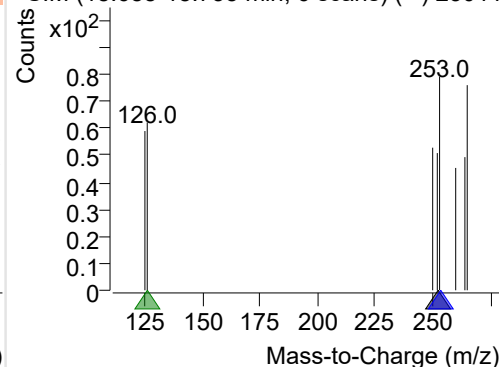
+ Selected Ion (252.0) 230112-PAHs-035.D



252.0, 253.0, 126.0

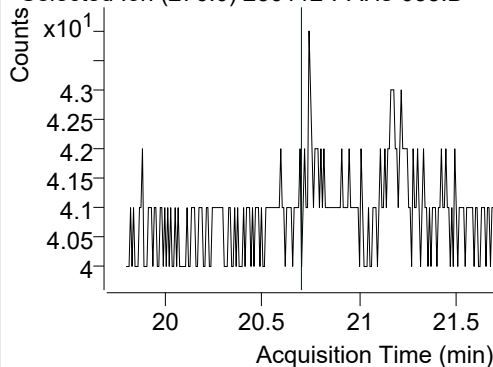


+ SIM (18.688-18.735 min, 6 scans) (**) 23011

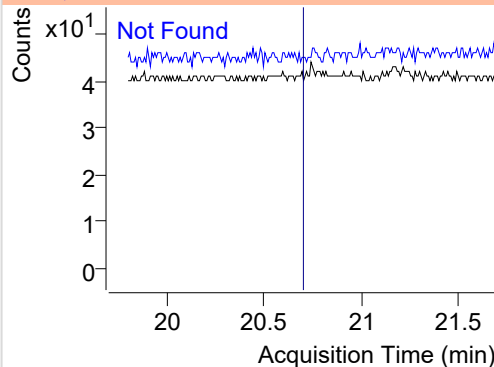


Indeno(1,2,3-c,d)pyrene

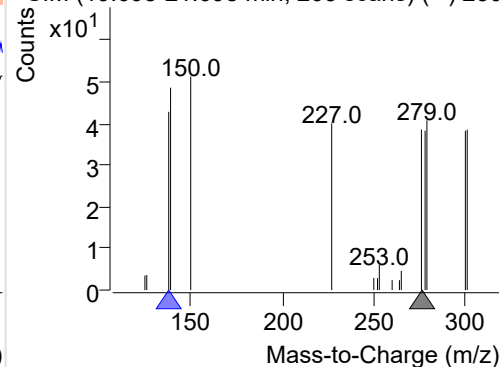
+ Selected Ion (276.0) 230112-PAHs-035.D



276.0, 138.0

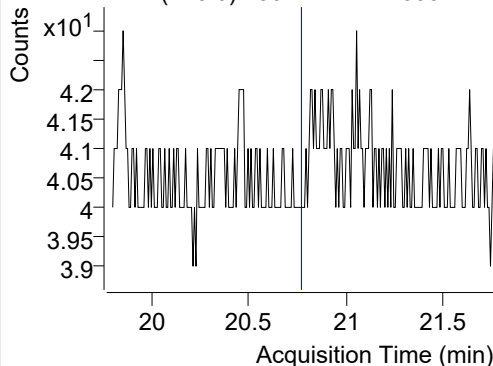


+ SIM (19.698-21.698 min, 263 scans) (**) 230

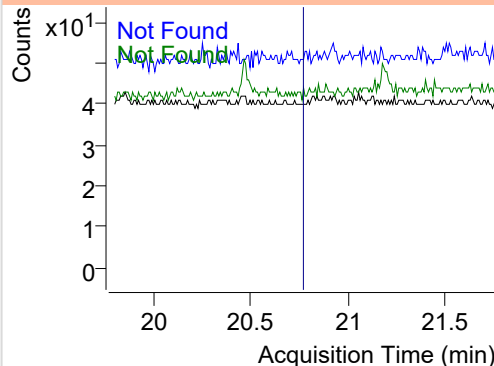


Dibenz(a,h)anthracene

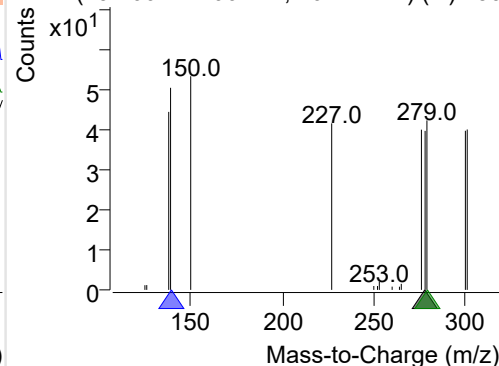
+ Selected Ion (278.0) 230112-PAHs-035.D



278.0, 139.0, 279.0



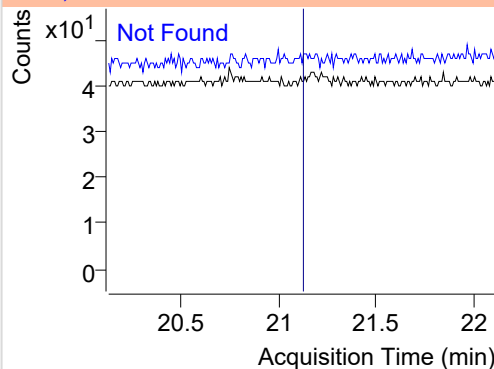
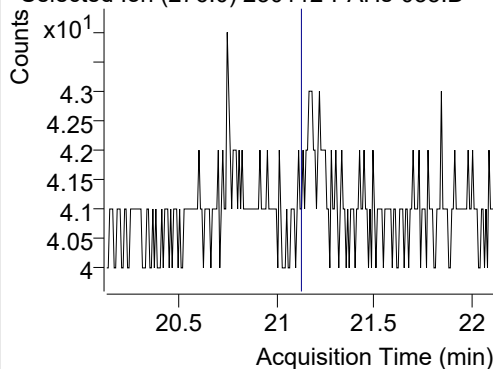
+ SIM (19.766-21.766 min, 262 scans) (**) 230



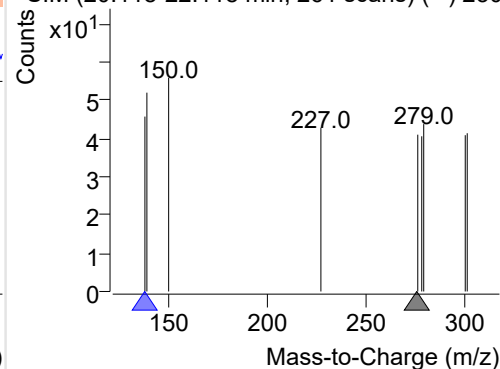
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-035.D

276.0, 138.0

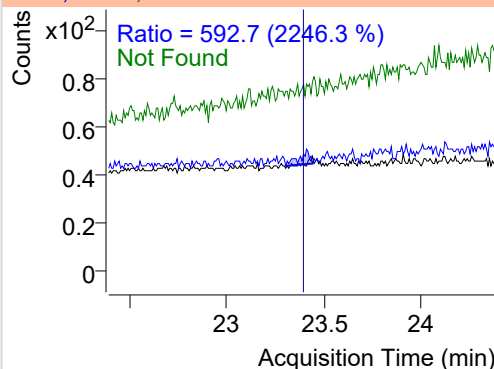
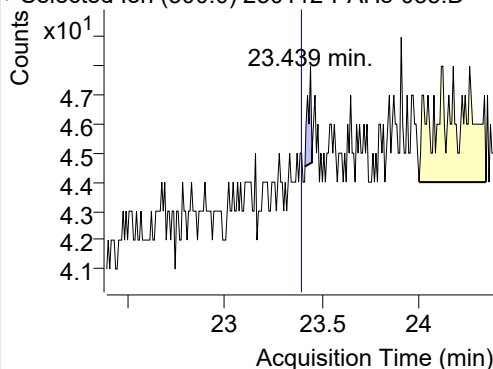


+ SIM (20.118-22.118 min, 261 scans) (**) 230

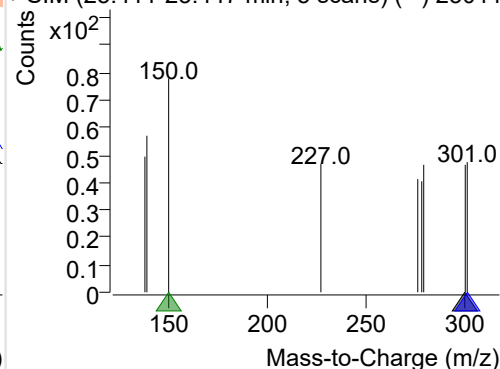
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-035.D

300.0, 301.0, 150.0



+ SIM (23.411-23.447 min, 5 scans) (**) 23011



Quantitative Analysis Sample Based Report

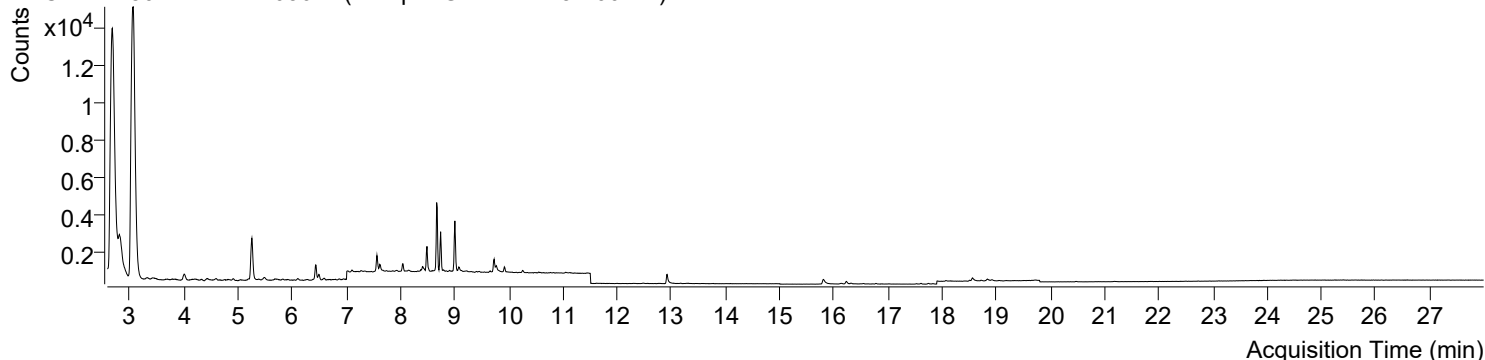


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 5:55:40	Data File	230112-PAHs-036.D
Type	Sample	Name	Sample-Gas-221215-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

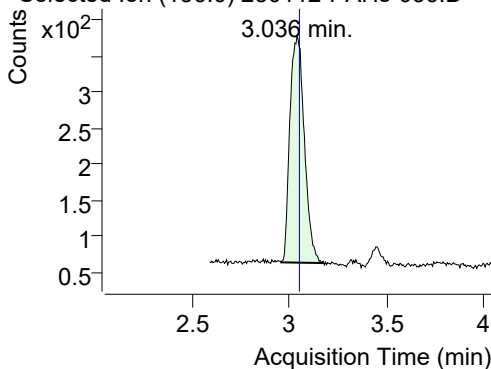
+ TIC SIM 230112-PAHs-036.D (Sample-Gas-221215-100DIL)



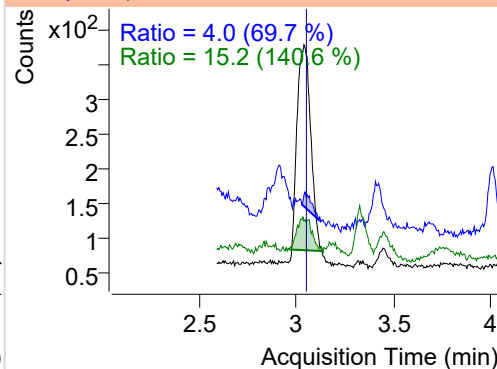
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	1624	313.94	ND ng/ml	15.2
Naphthalene	3.063	128.0	58952	11483.72	ND ng/ml	11.7
Acenaphthylene	6.108	152.0	131	61.70	ND ng/ml	33.8
IS-D10-Acenaphthene	6.433	164.0	839	390.09	ND ng/ml	95.0
Acenaphthene	6.493	154.0	157	73.35	ND ng/ml	114.0
LSS-D10-Fluorene	7.564	176.0	763	371.60	ND ng/ml	93.7
Fluorene	7.617	166.0	357	157.64	ND ng/ml	96.5
IS-D10-Phenanthrene	9.727	188.0	1293	546.60	ND ng/ml	18.6
Phenanthrene	9.769	178.0	408	156.28	ND ng/ml	20.2
Anthracene	9.916	178.0	135	72.28	ND ng/ml	28.0
Fluoranthene	12.477	202.0	65	20.27	ND ng/ml	16.2
LSS-D10-Pyrene	12.922	212.0	829	364.79	ND ng/ml	17.5
Pyrene	12.949	202.0	57	21.27	ND ng/ml	21.1
Benz(a)anthracene	15.838	228.0	34	9.51	ND ng/ml	37.6
IS-D12-Chrysene	15.806	240.0	603	160.31	ND ng/ml	18.6
Chrysene	15.838	228.0	34	9.51	ND ng/ml	37.6
Benzo(b)fluoranthene	18.516	252.0	11	7.12	ND ng/ml	
Benzo(k)fluoranthene	18.516	252.0	11	7.12	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.559	264.0	393	114.80	ND ng/ml	22.7
Benzo(e)pyrene	18.516	252.0	11	7.12	ND ng/ml	
Benzo(a)pyrene	18.715	252.0	13	6.12	ND ng/ml	
IS-D12-Perylene	18.836	264.0	287	72.80	ND ng/ml	17.7
Perylene	18.715	252.0	13	6.12	ND ng/ml	
Indeno(1,2,3-c,d)pyrene		276.0			ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene		276.0			ND ng/ml	
Coronene		300.0			ND ng/ml	

IS-D8-Naphthalene

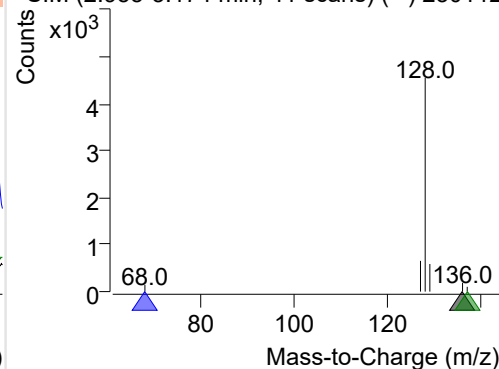
+ Selected Ion (136.0) 230112-PAHs-036.D



136.0, 68.0, 137.0

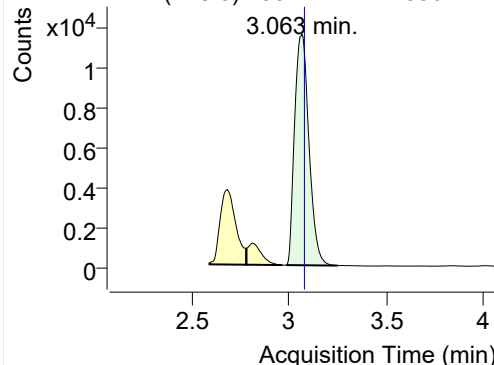


+ SIM (2.955-3.174 min, 41 scans) (**) 230112

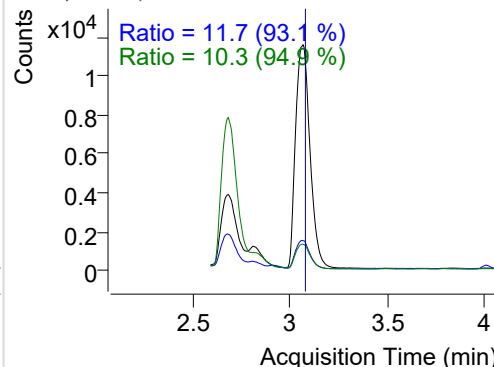


Naphthalene

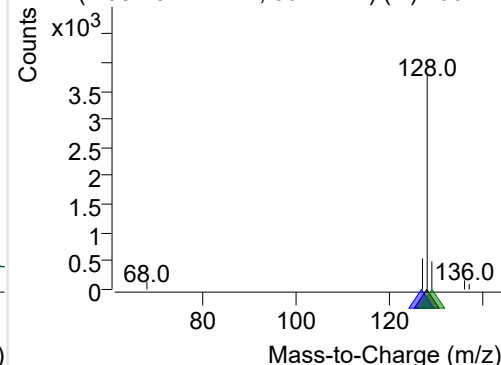
+ Selected Ion (128.0) 230112-PAHs-036.D



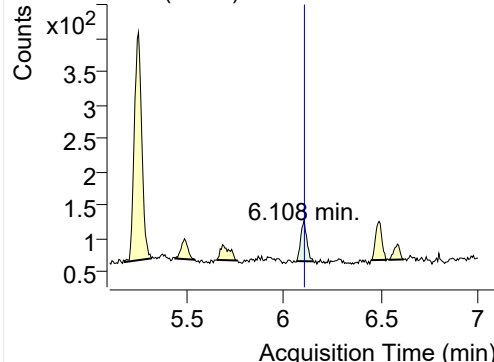
128.0, 127.0, 129.0



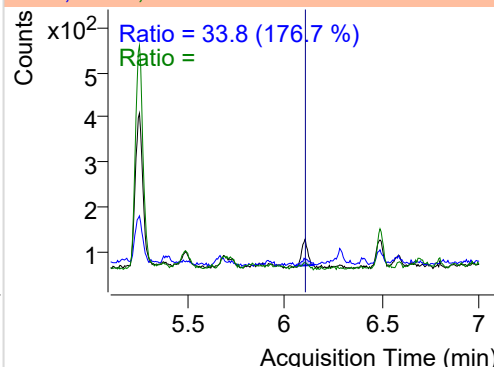
+ SIM (2.982-3.247 min, 50 scans) (**) 230112

**Acenaphthylene**

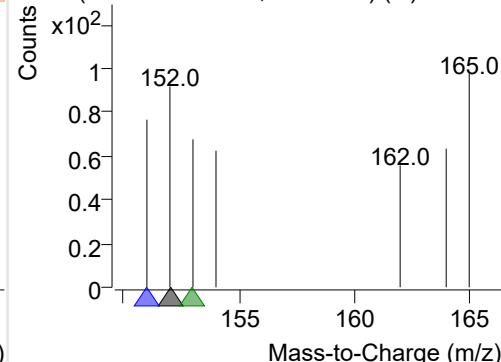
+ Selected Ion (152.0) 230112-PAHs-036.D



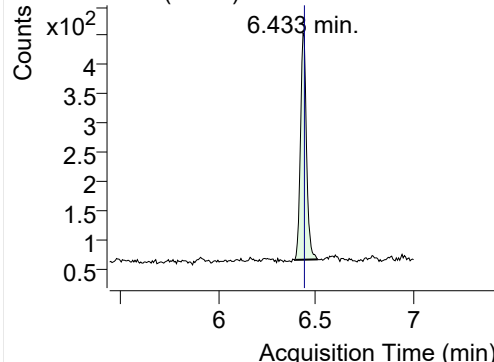
152.0, 151.0, 153.0



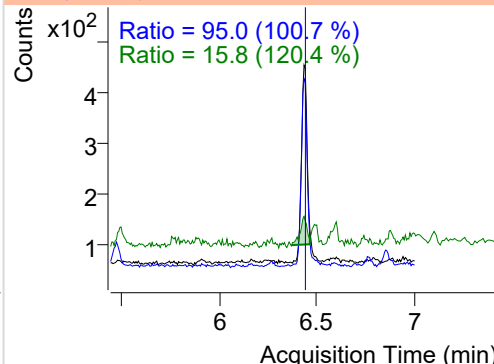
+ SIM (6.068-6.155 min, 14 scans) (**) 230112

**IS-D10-Acenaphthene**

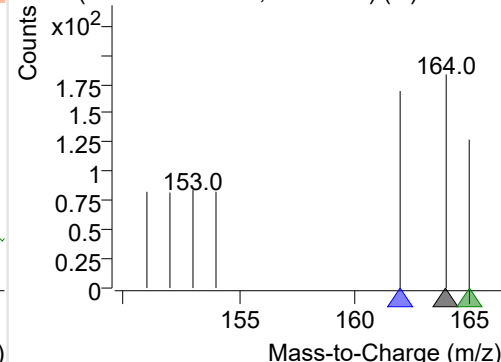
+ Selected Ion (164.0) 230112-PAHs-036.D



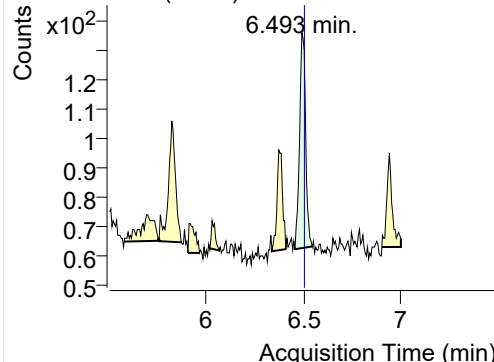
164.0, 162.0, 165.0



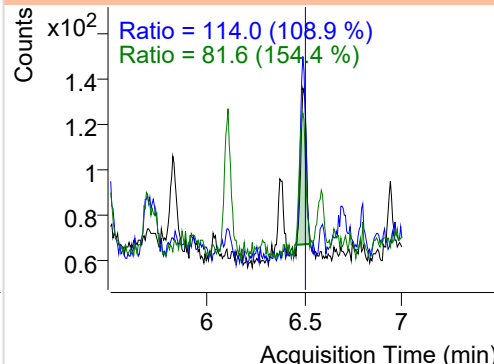
+ SIM (6.392-6.509 min, 20 scans) (**) 230112

**Acenaphthene**

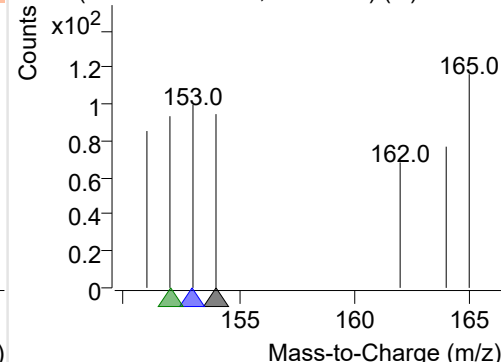
+ Selected Ion (154.0) 230112-PAHs-036.D



154.0, 153.0, 152.0

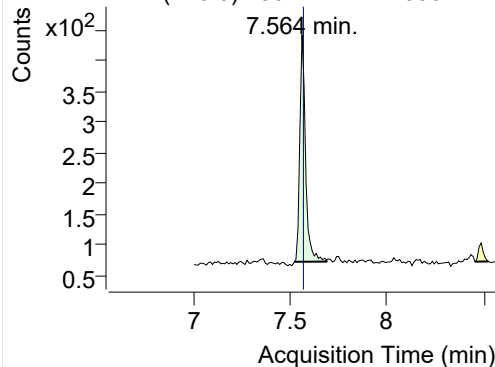


+ SIM (6.457-6.545 min, 14 scans) (**) 230112

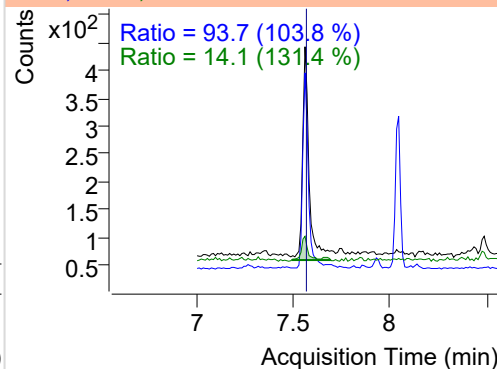


LSS-D10-Fluorene

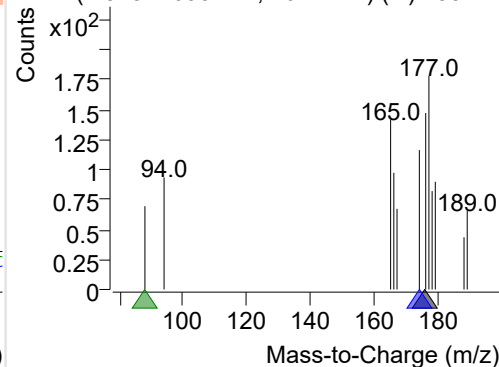
+ Selected Ion (176.0) 230112-PAHs-036.D



176.0, 174.0, 88.0

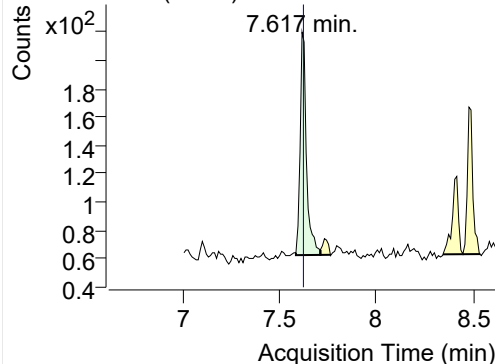


+ SIM (7.525-7.690 min, 16 scans) (**) 230112

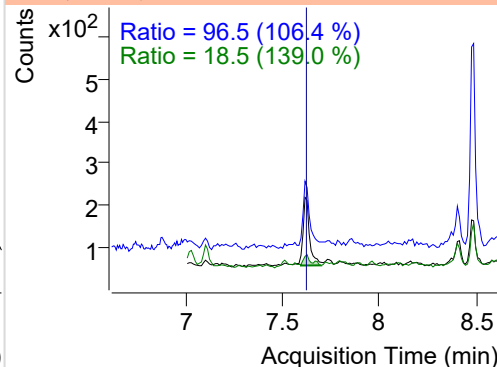


Fluorene

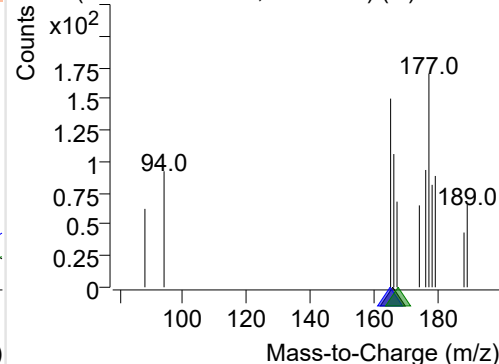
+ Selected Ion (166.0) 230112-PAHs-036.D



166.0, 165.0, 167.0

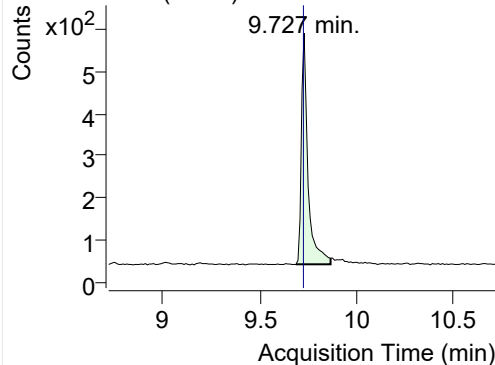


+ SIM (7.585-7.711 min, 13 scans) (**) 230112

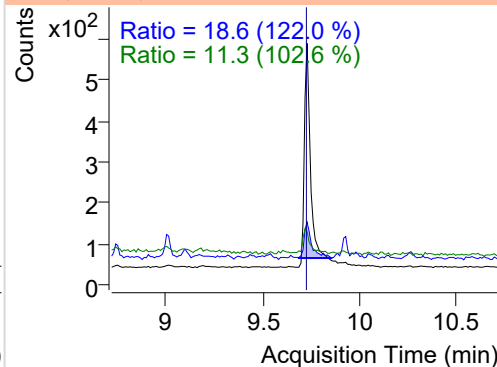


IS-D10-Phenanthrene

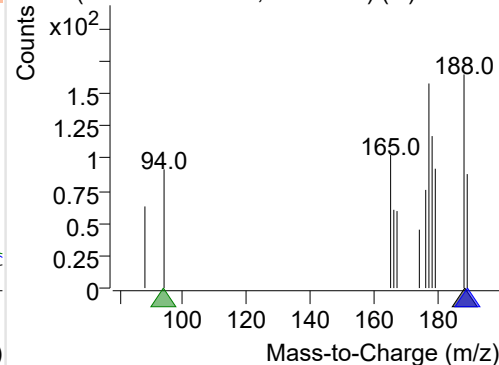
+ Selected Ion (188.0) 230112-PAHs-036.D



188.0, 189.0, 94.0

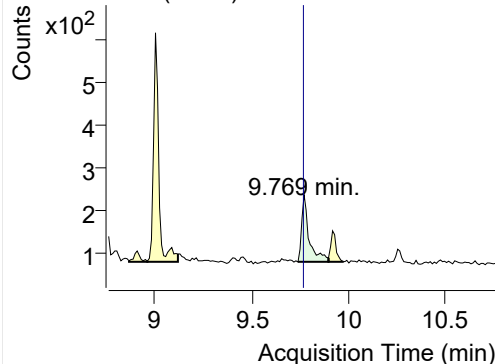


+ SIM (9.686-9.864 min, 17 scans) (**) 230112

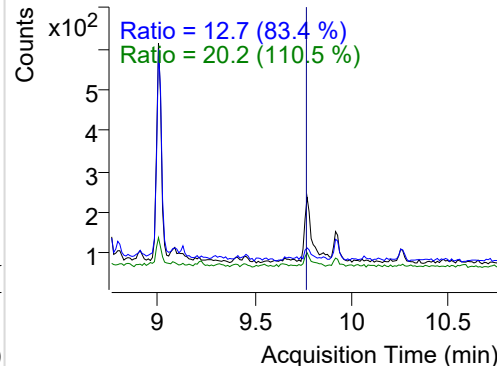


Phenanthrene

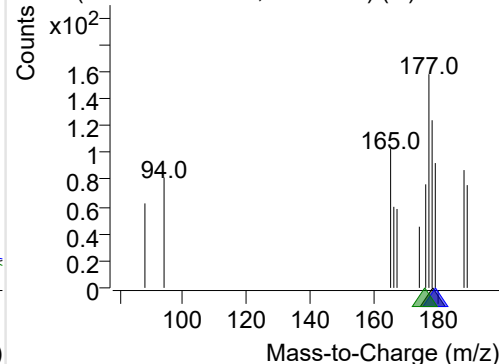
+ Selected Ion (178.0) 230112-PAHs-036.D



178.0, 179.0, 176.0

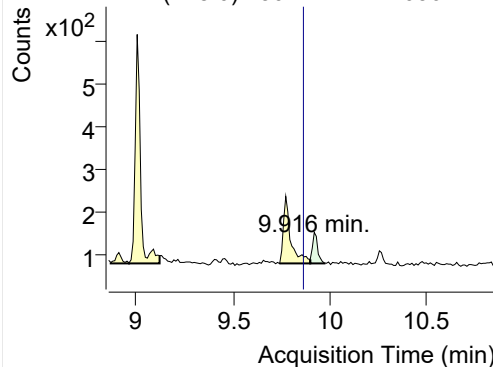


+ SIM (9.738-9.895 min, 15 scans) (**) 230112

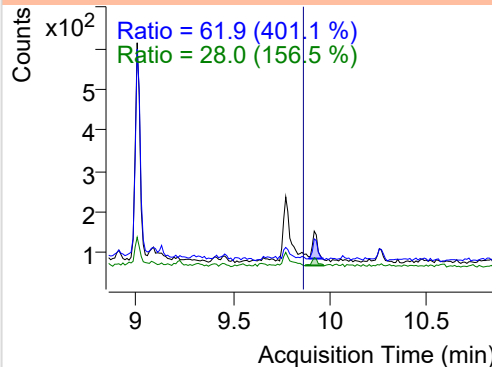


Anthracene

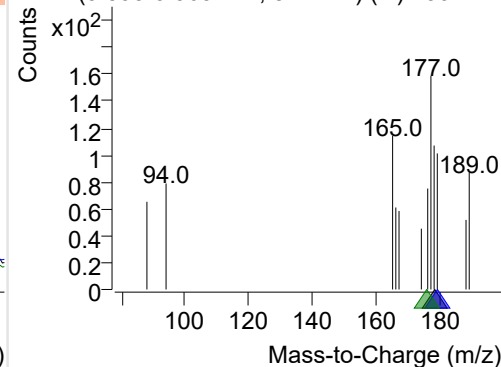
+ Selected Ion (178.0) 230112-PAHs-036.D



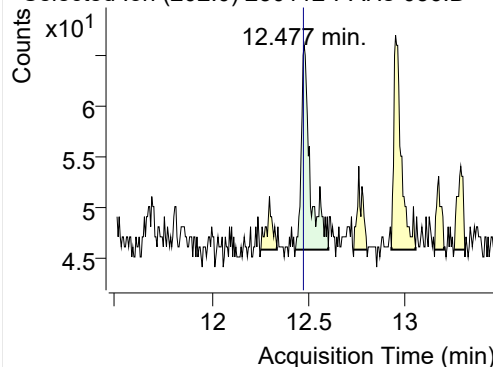
178.0, 179.0, 176.0



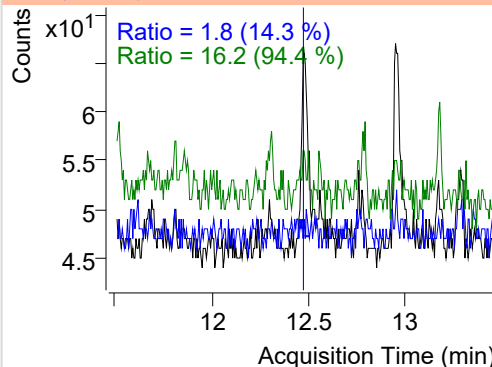
+ SIM (9.895-9.969 min, 8 scans) (**) 230112-I

**Fluoranthene**

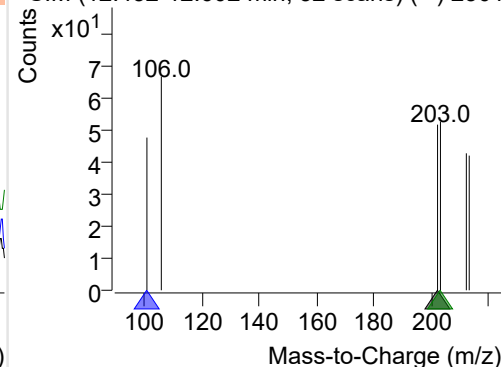
+ Selected Ion (202.0) 230112-PAHs-036.D



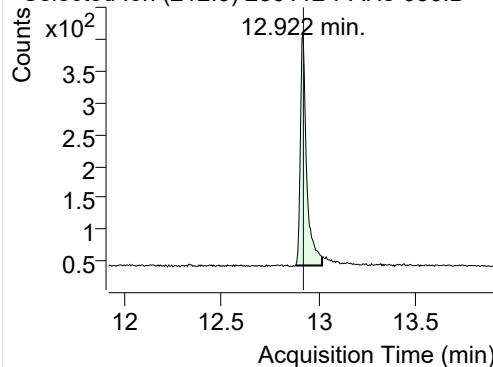
202.0, 101.0, 203.0



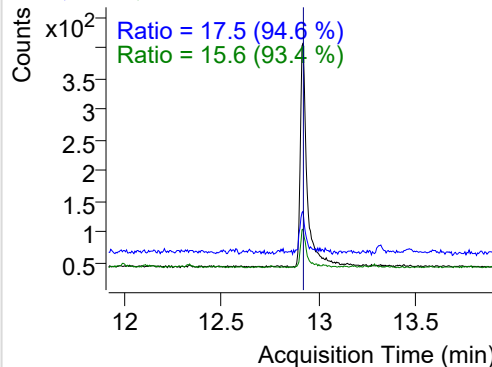
+ SIM (12.432-12.602 min, 32 scans) (**) 2301

**LSS-D10-Pyrene**

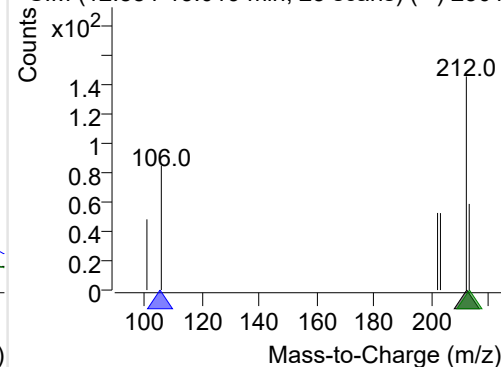
+ Selected Ion (212.0) 230112-PAHs-036.D



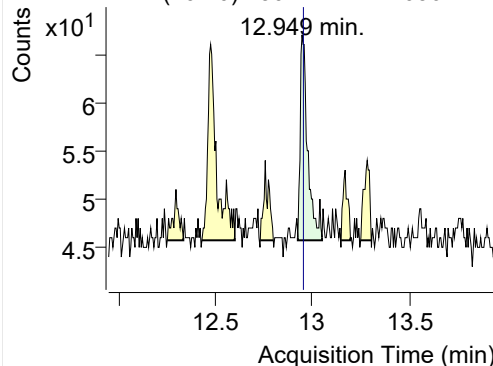
212.0, 106.0, 213.0



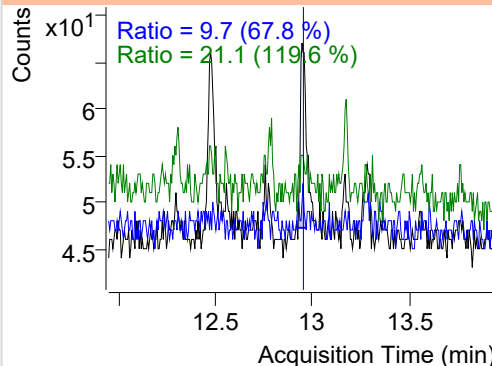
+ SIM (12.884-13.019 min, 25 scans) (**) 2301

**Pyrene**

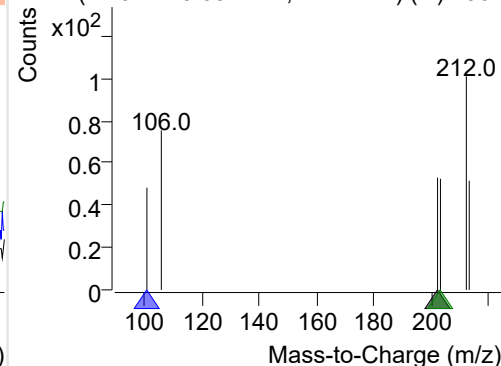
+ Selected Ion (202.0) 230112-PAHs-036.D



202.0, 101.0, 203.0



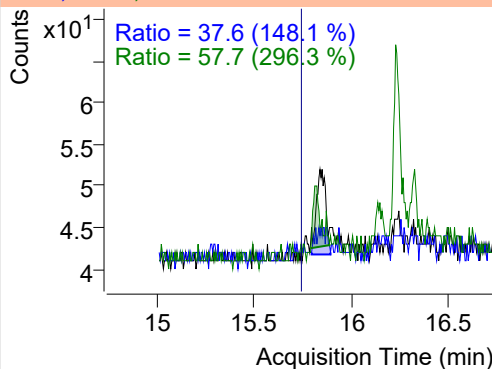
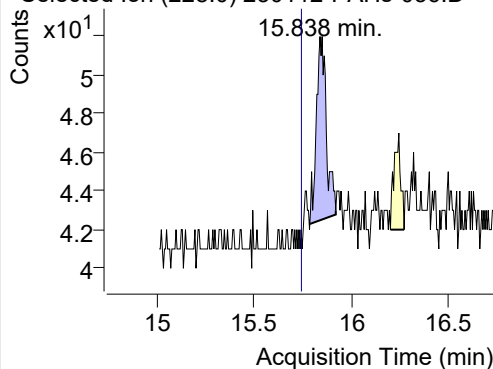
+ SIM (12.927-13.052 min, 24 scans) (**) 2301



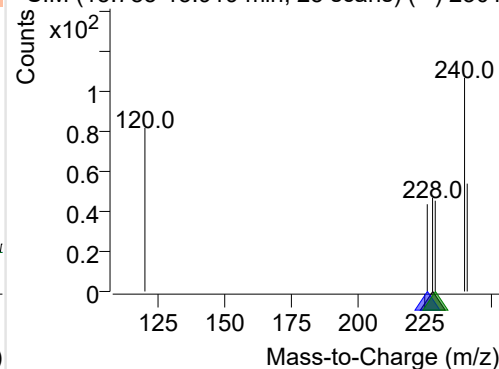
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-036.D

228.0, 226.0, 229.0

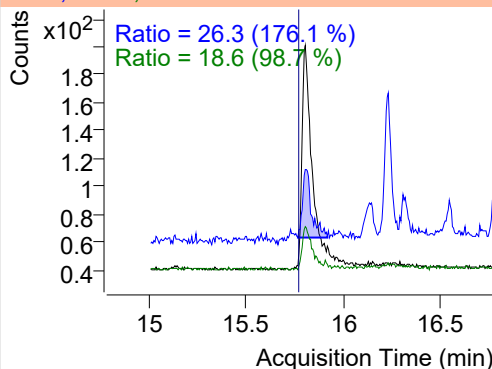
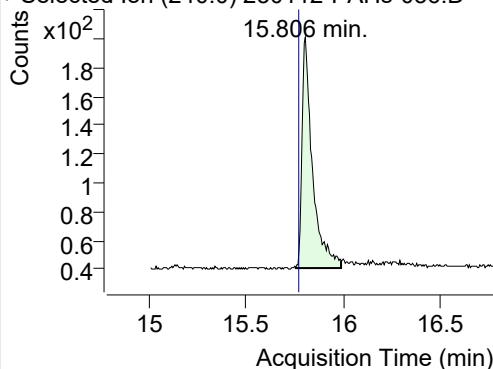


+ SIM (15.785-15.919 min, 25 scans) (**) 2301

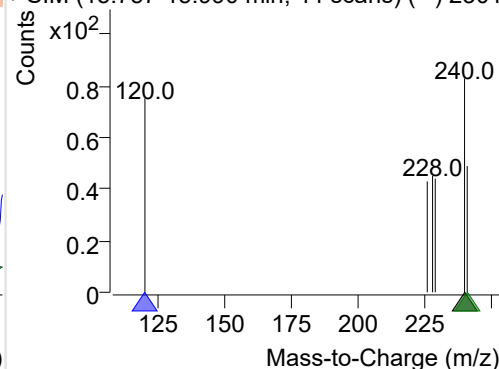
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-036.D

240.0, 120.0, 241.0

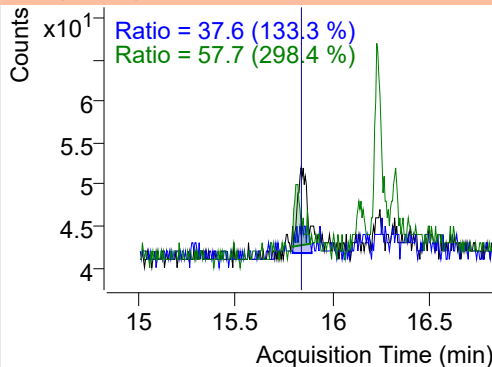
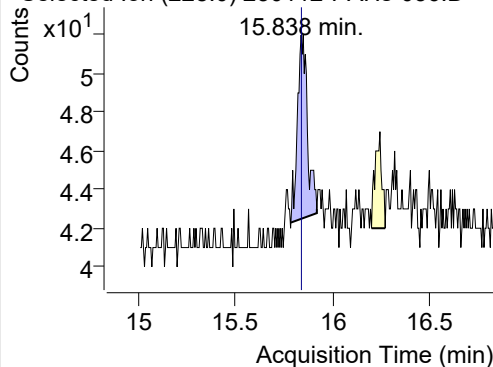


+ SIM (15.757-15.990 min, 44 scans) (**) 2301

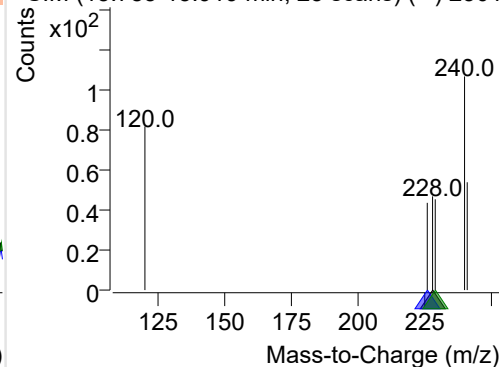
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-036.D

228.0, 226.0, 229.0

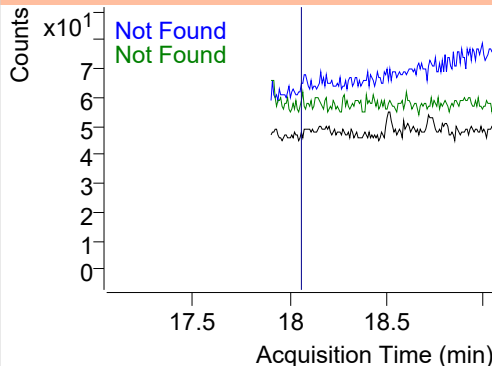
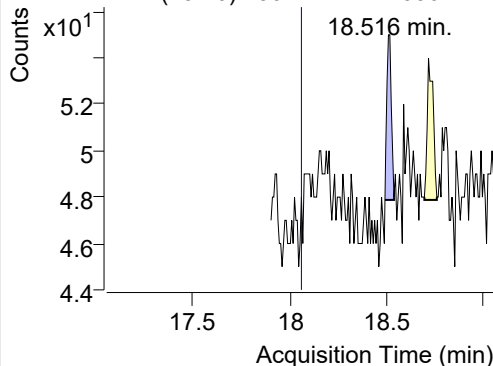


+ SIM (15.785-15.919 min, 25 scans) (**) 2301

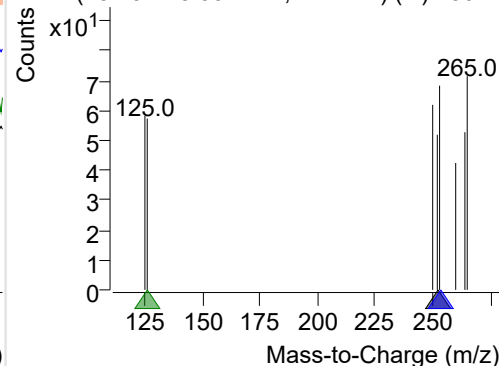
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-036.D

252.0, 253.0, 126.0



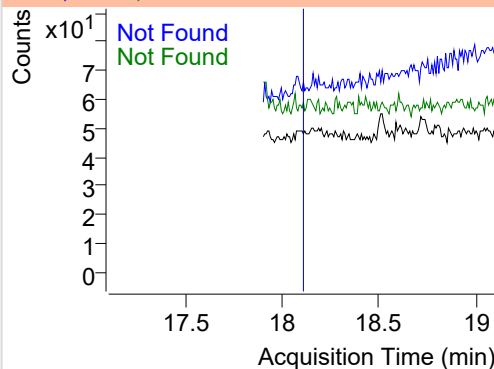
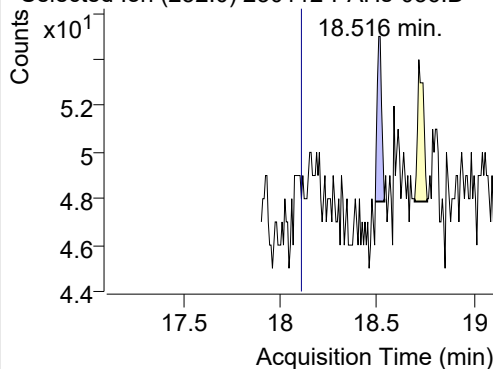
+ SIM (18.491-18.537 min, 7 scans) (**) 23011



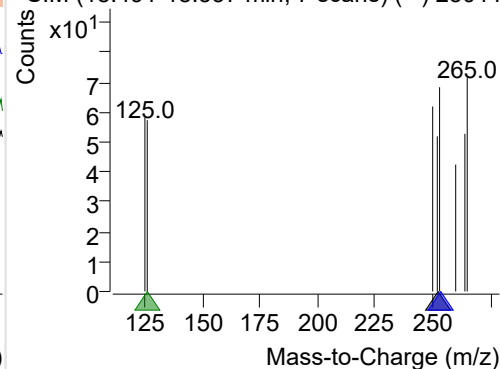
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-036.D

252.0, 253.0, 126.0

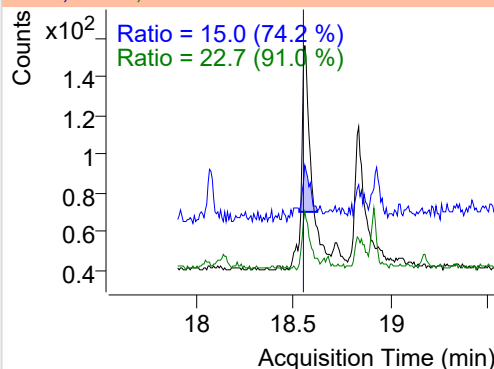
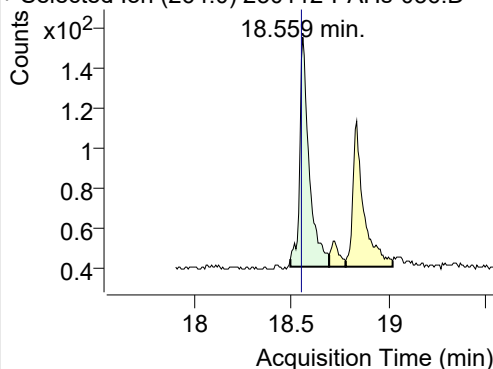


+ SIM (18.491-18.537 min, 7 scans) (**) 23011

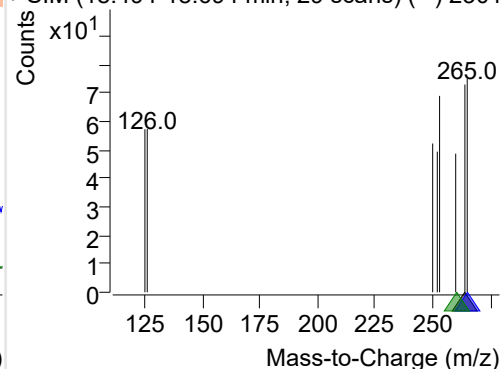
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-036.D

264.0, 265.0, 260.0

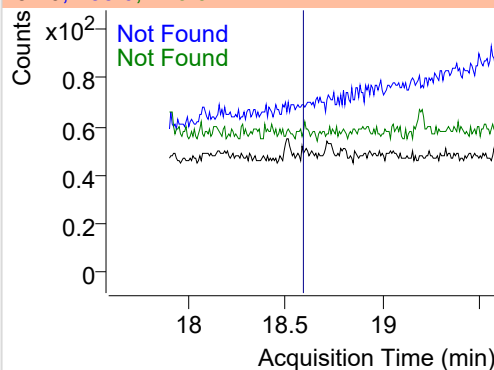
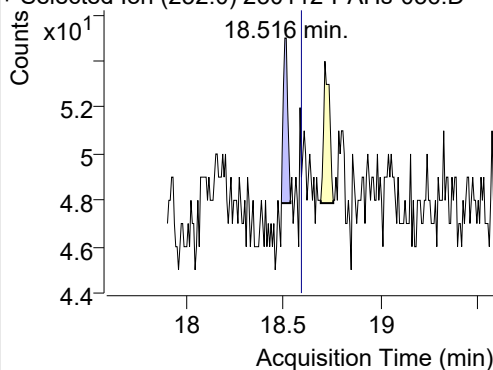


+ SIM (18.494-18.694 min, 29 scans) (**) 23011

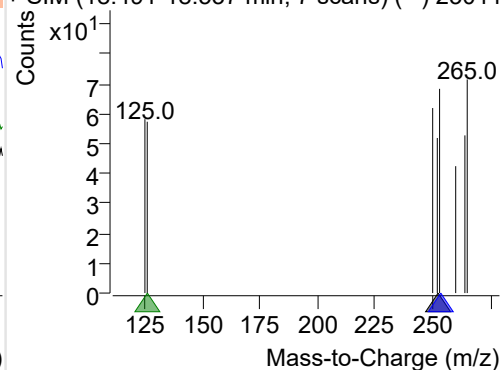
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-036.D

252.0, 253.0, 126.0

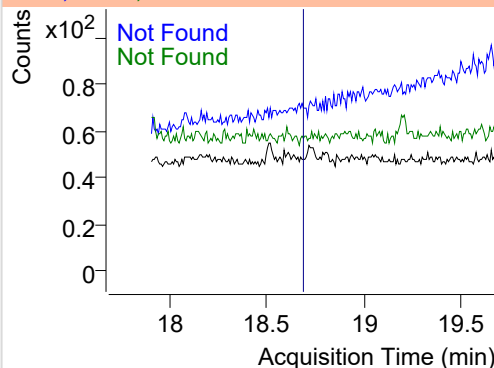
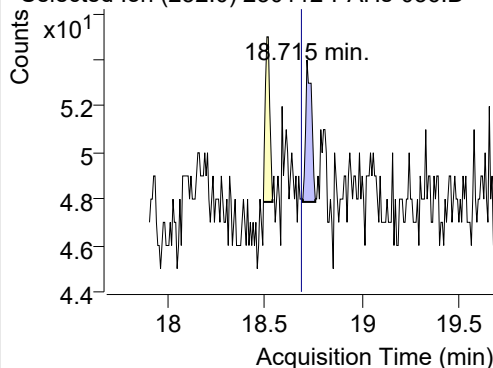


+ SIM (18.491-18.537 min, 7 scans) (**) 23011

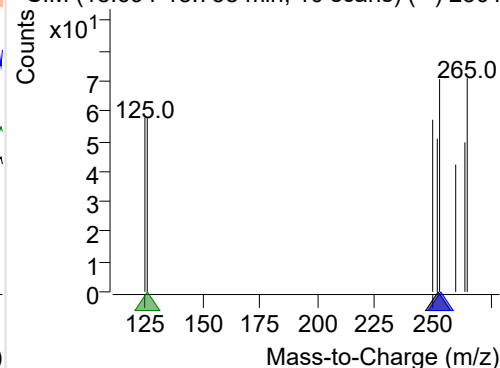
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-036.D

252.0, 253.0, 126.0



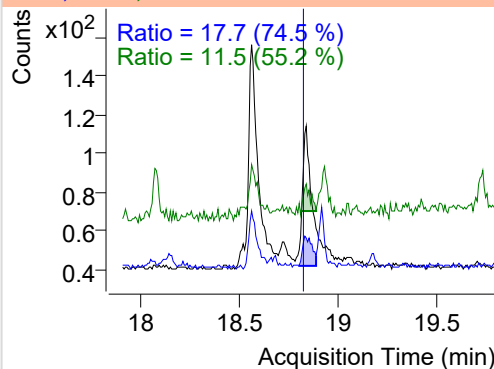
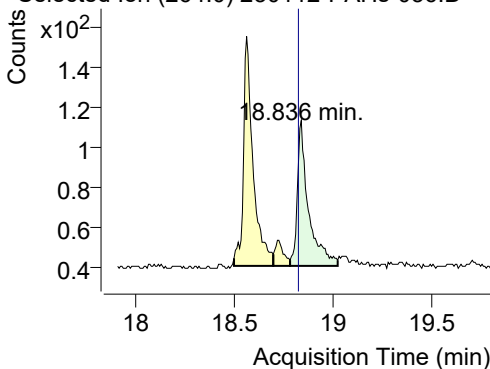
+ SIM (18.694-18.758 min, 10 scans) (**) 23011



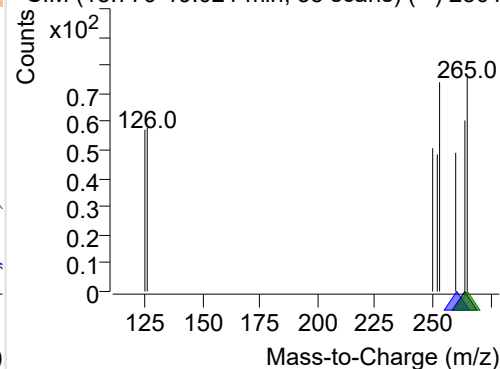
IS-D12-Perylene

+ Selected Ion (264.0) 230112-PAHs-036.D

264.0, 260.0, 265.0



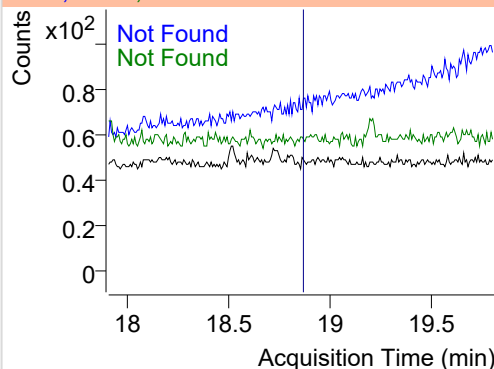
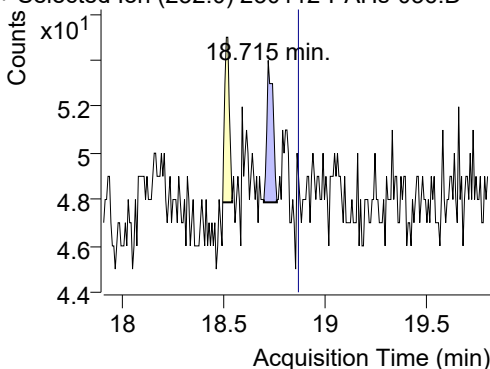
+ SIM (18.779-19.021 min, 35 scans) (**) 2301



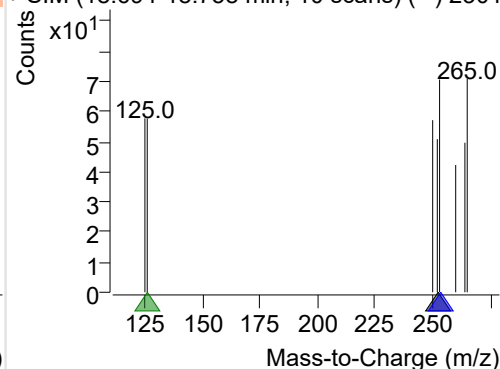
Perylene

+ Selected Ion (252.0) 230112-PAHs-036.D

252.0, 253.0, 126.0



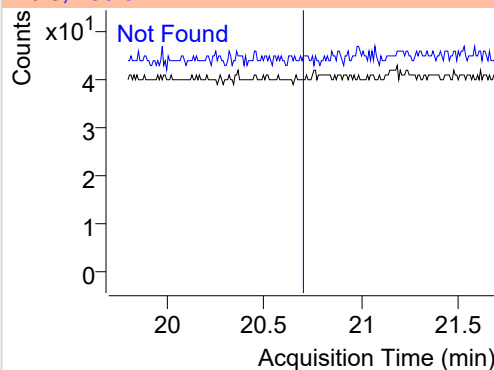
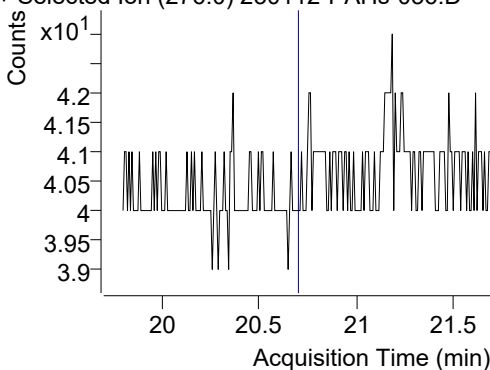
+ SIM (18.694-18.758 min, 10 scans) (**) 2301



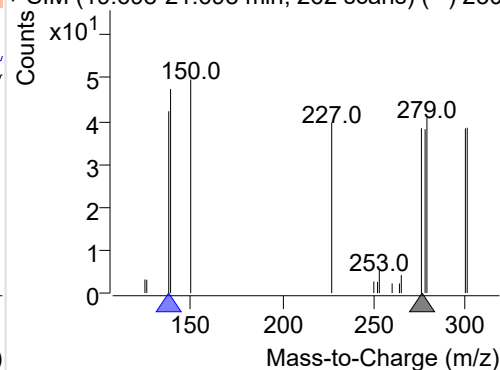
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 230112-PAHs-036.D

276.0, 138.0



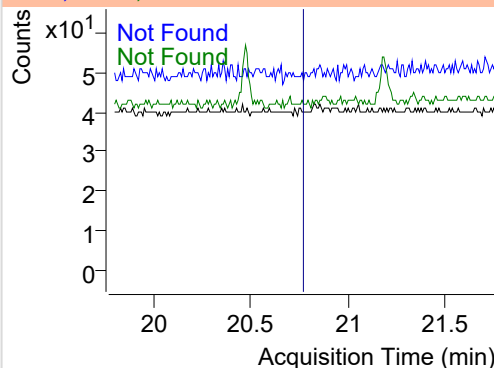
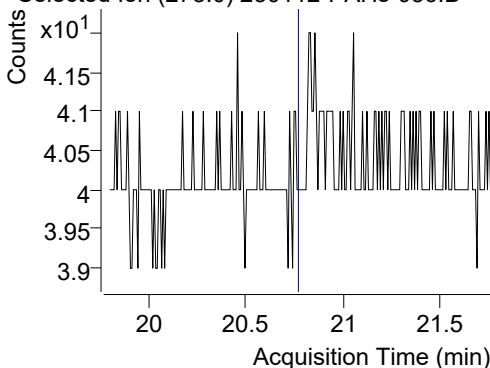
+ SIM (19.698-21.698 min, 262 scans) (**) 2301



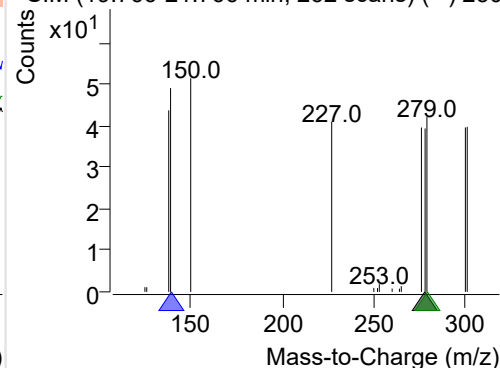
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-036.D

278.0, 139.0, 279.0



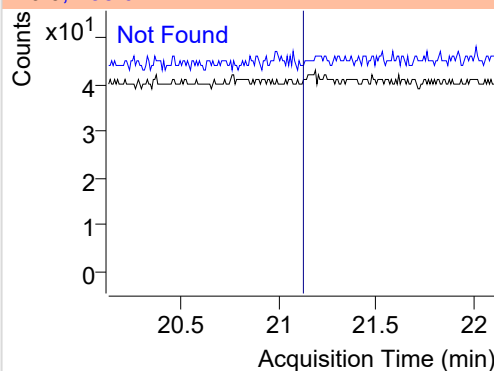
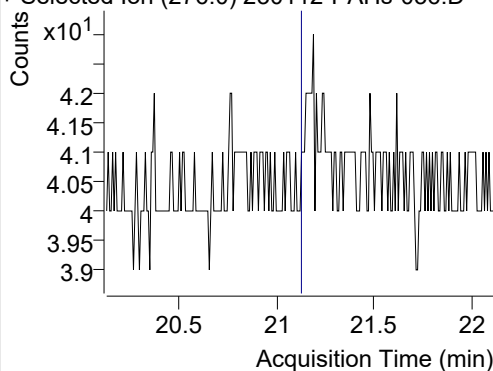
+ SIM (19.766-21.766 min, 262 scans) (**) 2301



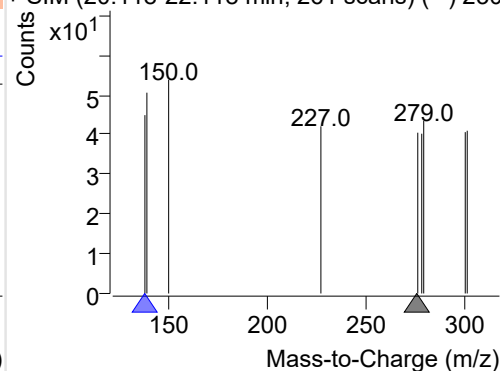
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-036.D

276.0, 138.0

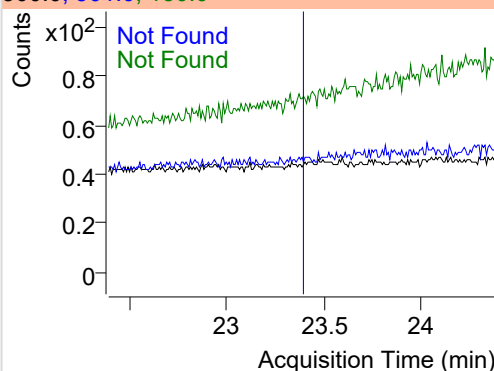
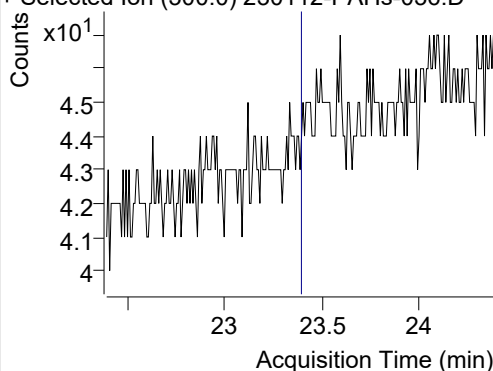


+ SIM (20.118-22.118 min, 261 scans) (**) 230

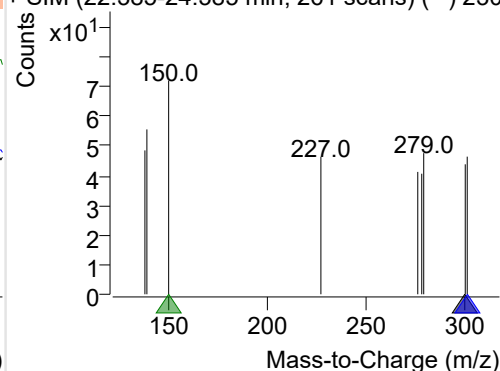
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-036.D

300.0, 301.0, 150.0



+ SIM (22.385-24.385 min, 261 scans) (**) 230



Quantitative Analysis Sample Based Report

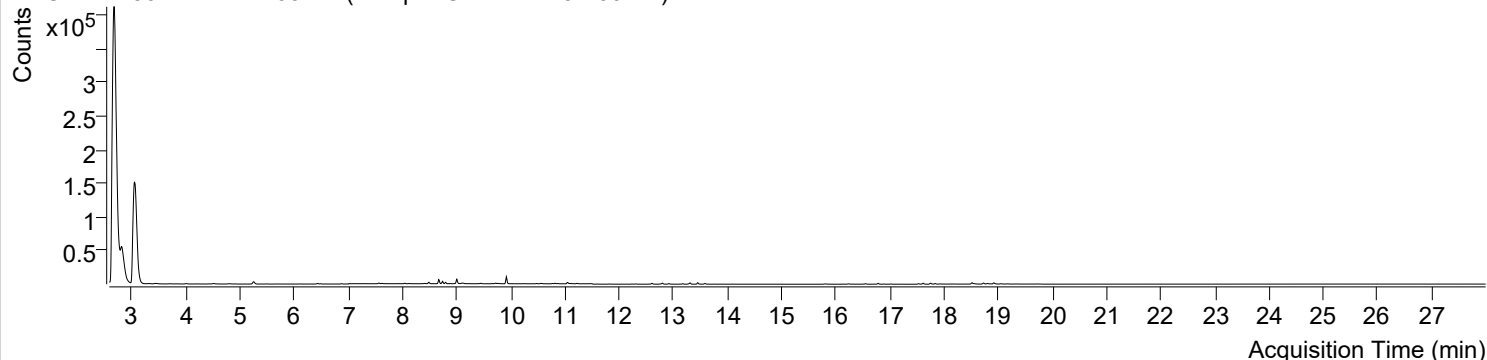


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 6:27:03	Data File	230112-PAHs-037.D
Type	Sample	Name	Sample-Gas-221219-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

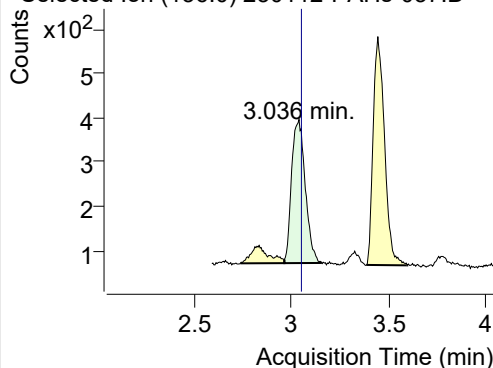
+ TIC SIM 230112-PAHs-037.D (Sample-Gas-221219-100DIL)



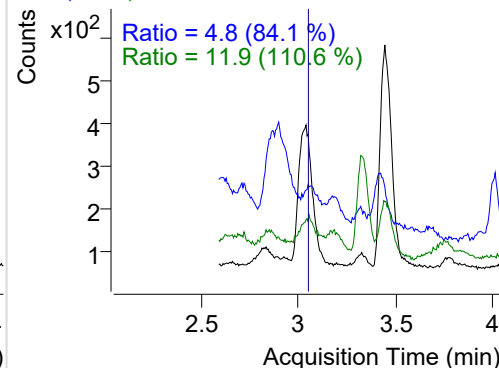
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	1580	323.92	ND ng/ml	11.9
Naphthalene	3.053	128.0	603568	121398.93	ND ng/ml	12.3
Acenaphthylene	6.102	152.0	260	120.36	ND ng/ml	23.7
IS-D10-Acenaphthene	6.433	164.0	908	437.26	ND ng/ml	96.3
Acenaphthene	6.493	154.0	209	103.42	ND ng/ml	106.6
LSS-D10-Fluorene	7.564	176.0	864	455.06	ND ng/ml	93.6
Fluorene	7.617	166.0	469	234.32	ND ng/ml	112.2
IS-D10-Phenanthrene	9.727	188.0	1449	664.77	ND ng/ml	20.5
Phenanthrene	9.769	178.0	634	255.21	ND ng/ml	16.3
Anthracene	9.916	178.0	4359	2717.69	ND ng/ml	28.8
Fluoranthene	12.472	202.0	32	19.32	ND ng/ml	
LSS-D10-Pyrene	12.916	212.0	1119	581.44	ND ng/ml	25.7
Pyrene	12.949	202.0	66	31.83	ND ng/ml	
Benz(a)anthracene	15.833	228.0	46	13.29	ND ng/ml	26.0
IS-D12-Chrysene	15.795	240.0	793	233.62	ND ng/ml	17.1
Chrysene	15.833	228.0	46	13.29	ND ng/ml	26.0
Benzo(b)fluoranthene	17.925	252.0	163	80.00	ND ng/ml	16.6
Benzo(k)fluoranthene	18.181	252.0	82	33.24	ND ng/ml	25.7
SS-D12-Benzo(e)pyrene	18.552	264.0	1057	354.57	ND ng/ml	23.2
Benzo(e)pyrene	18.516	252.0	668	253.58	ND ng/ml	13.5
Benzo(a)pyrene	18.722	252.0	487	192.88	ND ng/ml	15.9
IS-D12-Perylene	18.801	264.0	1085	274.57	ND ng/ml	31.5
Perylene	18.801	252.0	478	143.67	ND ng/ml	16.0
Indeno(1,2,3-c,d)pyrene	21.164	276.0	1	3.03	ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene	21.164	276.0	1	3.03	ND ng/ml	
Coronene	23.431	300.0	6	2.75	ND ng/ml	

IS-D8-Naphthalene

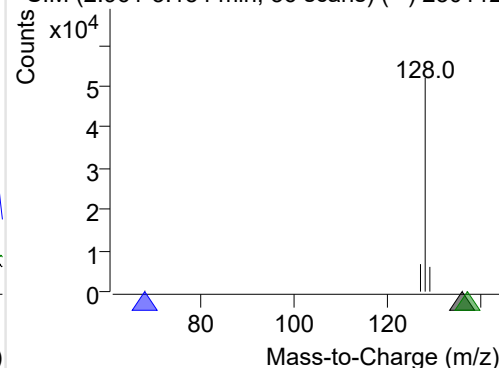
+ Selected Ion (136.0) 230112-PAHs-037.D



136.0, 68.0, 137.0

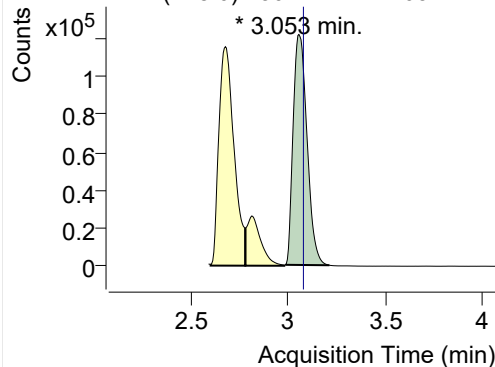


+ SIM (2.961-3.154 min, 36 scans) (**) 230112

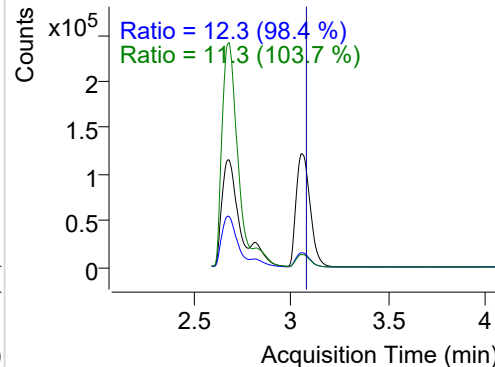


Naphthalene

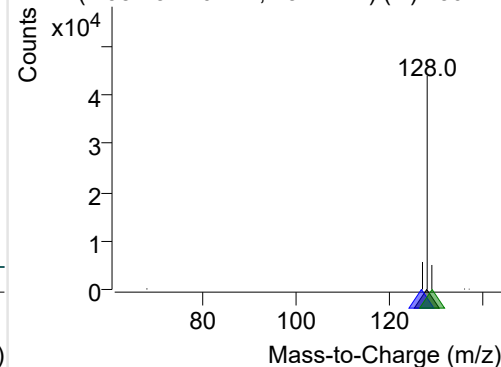
+ Selected Ion (128.0) 230112-PAHs-037.D



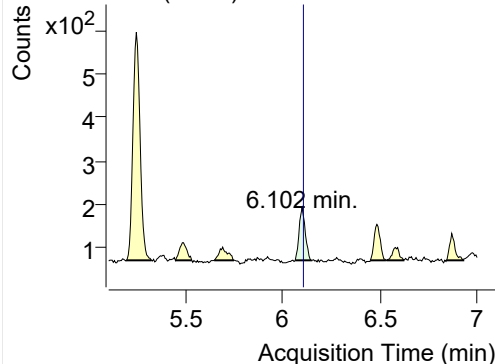
128.0, 127.0, 129.0



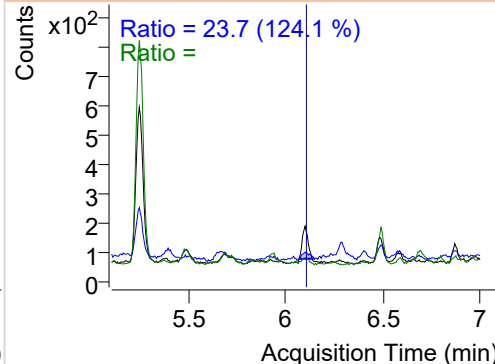
+ SIM (2.982-3.210 min, 43 scans) (**) 230112

**Acenaphthylene**

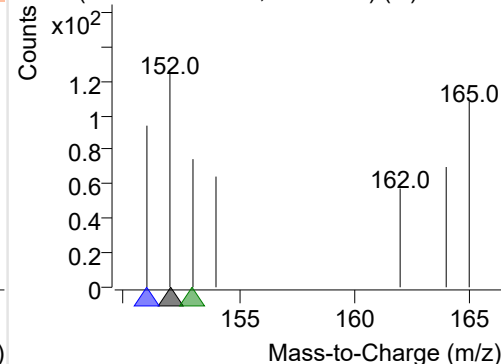
+ Selected Ion (152.0) 230112-PAHs-037.D



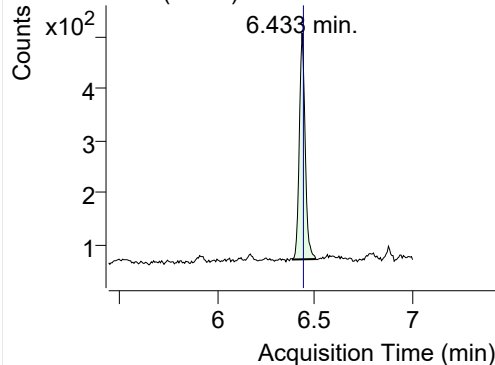
152.0, 151.0, 153.0



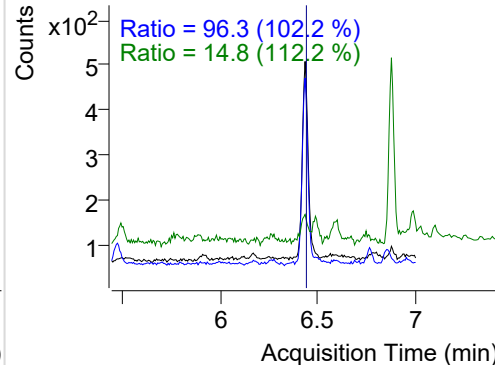
+ SIM (6.067-6.149 min, 14 scans) (**) 230112

**IS-D10-Acenaphthene**

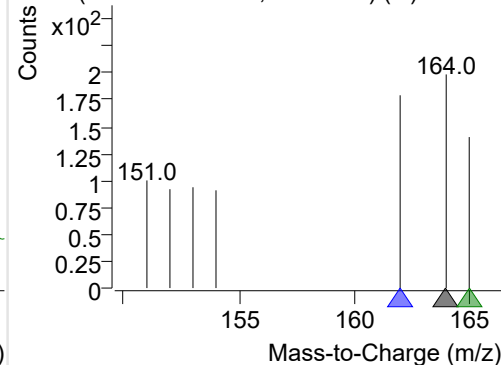
+ Selected Ion (164.0) 230112-PAHs-037.D



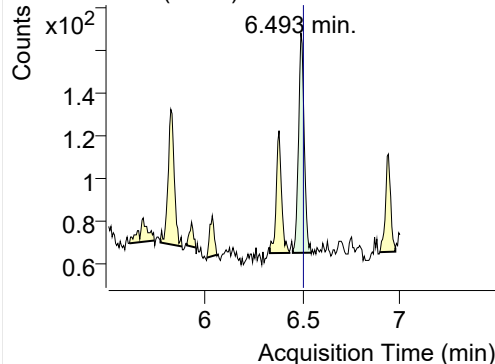
164.0, 162.0, 165.0



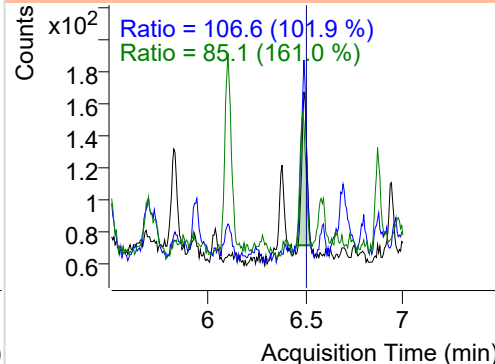
+ SIM (6.386-6.504 min, 20 scans) (**) 230112

**Acenaphthene**

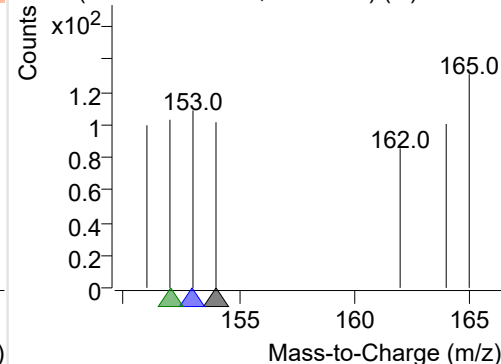
+ Selected Ion (154.0) 230112-PAHs-037.D



154.0, 153.0, 152.0

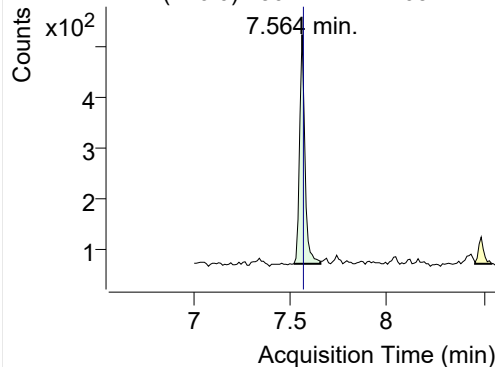


+ SIM (6.451-6.545 min, 16 scans) (**) 230112

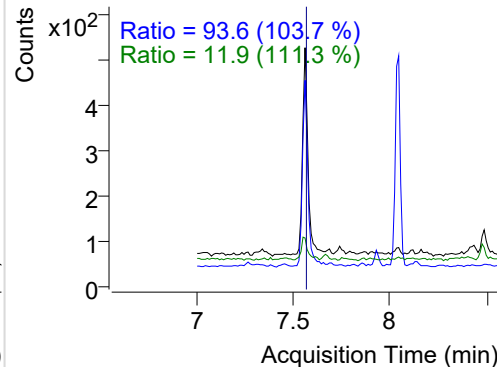


LSS-D10-Fluorene

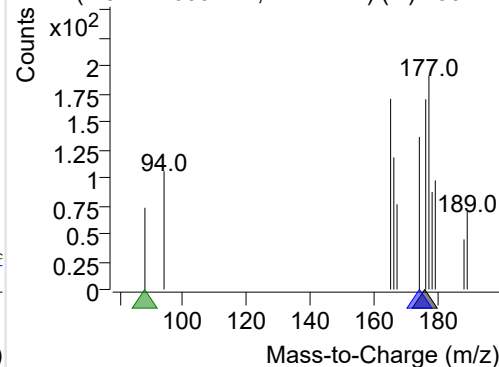
+ Selected Ion (176.0) 230112-PAHs-037.D



176.0, 174.0, 88.0

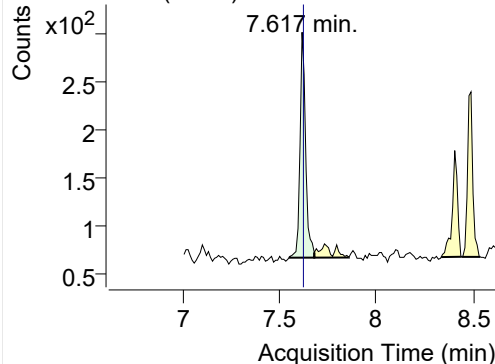


+ SIM (7.521-7.659 min, 14 scans) (**) 230112

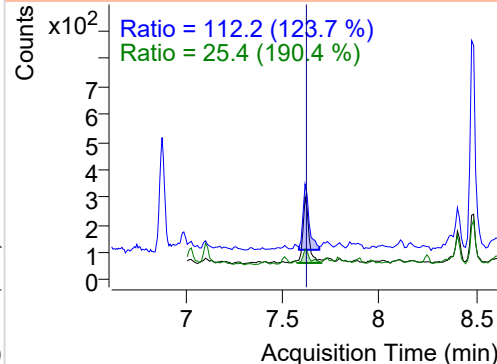


Fluorene

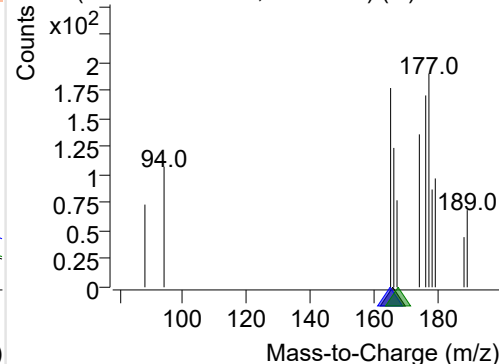
+ Selected Ion (166.0) 230112-PAHs-037.D



166.0, 165.0, 167.0

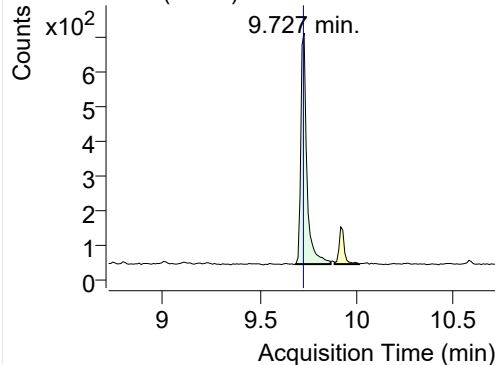


+ SIM (7.554-7.680 min, 13 scans) (**) 230112

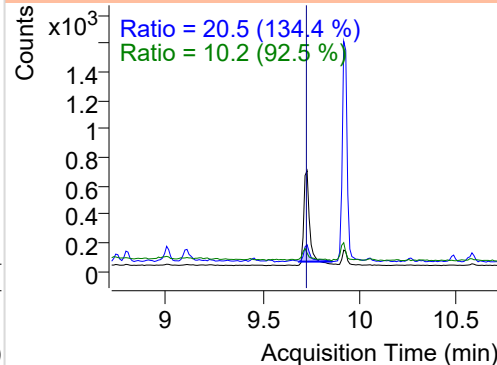


IS-D10-Phenanthrene

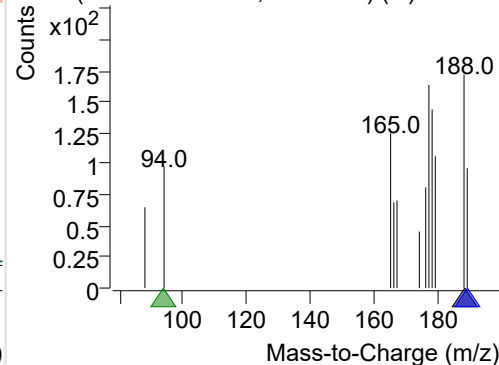
+ Selected Ion (188.0) 230112-PAHs-037.D



188.0, 189.0, 94.0

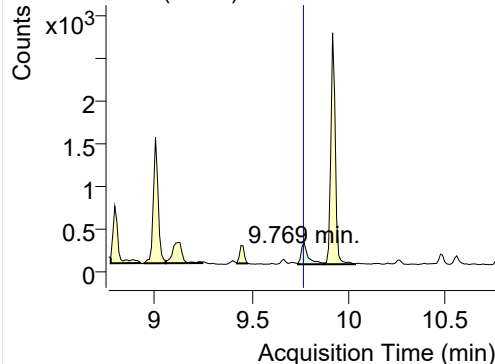


+ SIM (9.681-9.864 min, 18 scans) (**) 230112

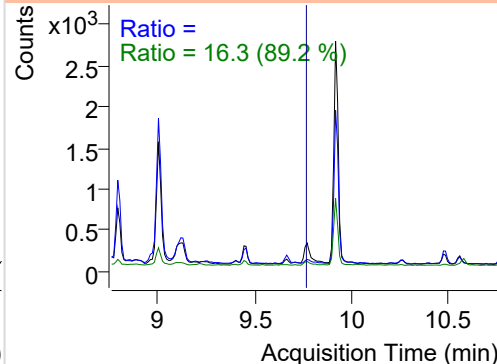


Phenanthrene

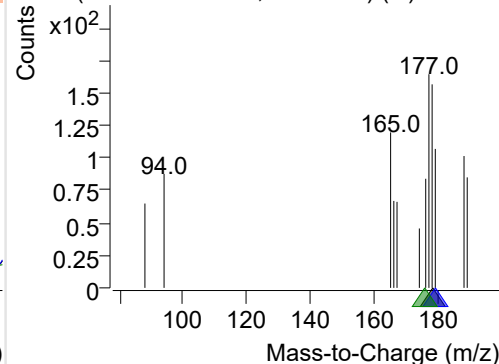
+ Selected Ion (178.0) 230112-PAHs-037.D



178.0, 179.0, 176.0

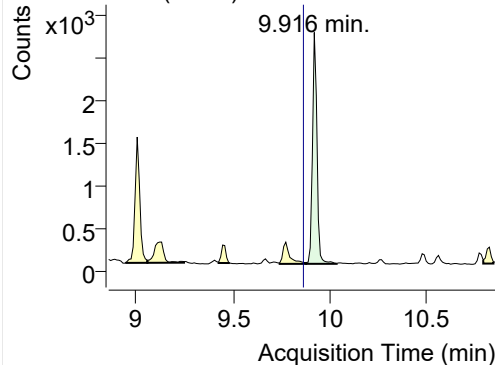


+ SIM (9.738-9.874 min, 14 scans) (**) 230112

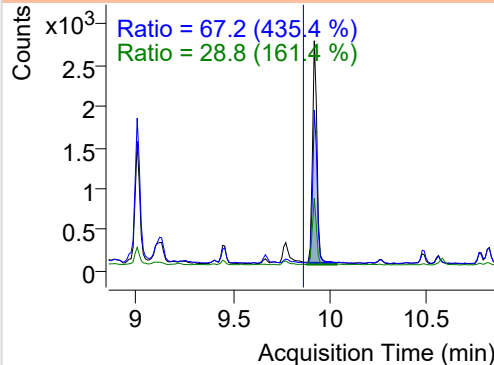


Anthracene

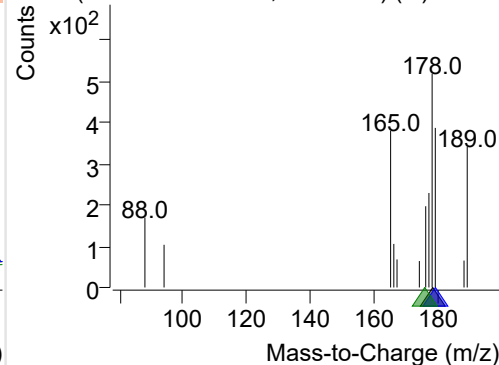
+ Selected Ion (178.0) 230112-PAHs-037.D



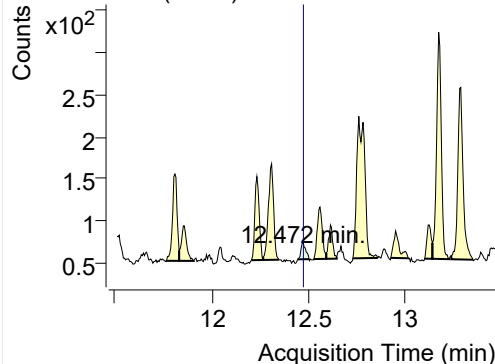
178.0, 179.0, 176.0



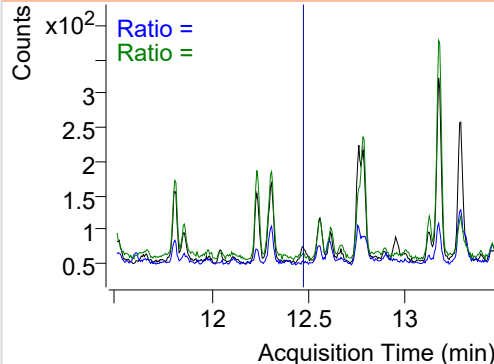
+ SIM (9.874-10.032 min, 16 scans) (**) 23011

**Fluoranthene**

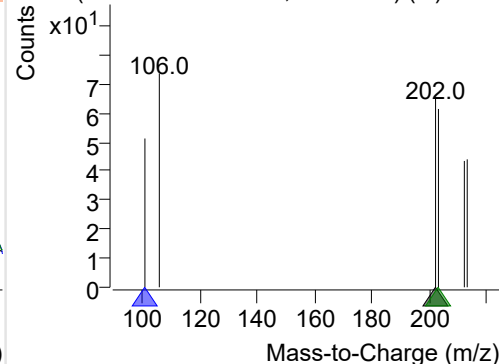
+ Selected Ion (202.0) 230112-PAHs-037.D



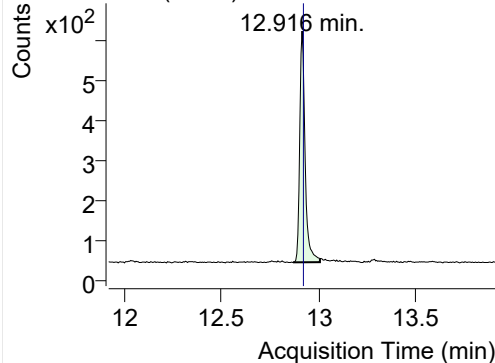
202.0, 101.0, 203.0



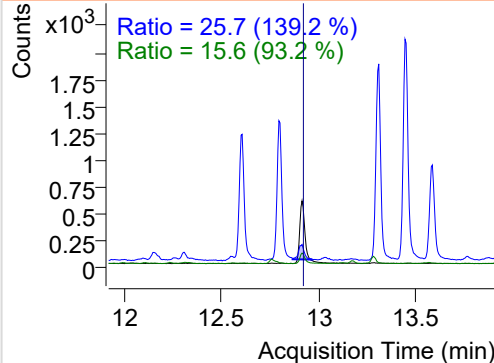
+ SIM (12.444-12.503 min, 11 scans) (**) 2301

**LSS-D10-Pyrene**

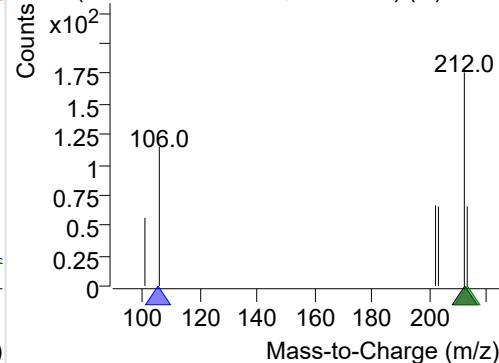
+ Selected Ion (212.0) 230112-PAHs-037.D



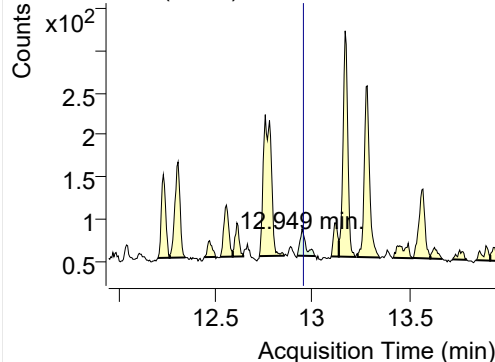
212.0, 106.0, 213.0



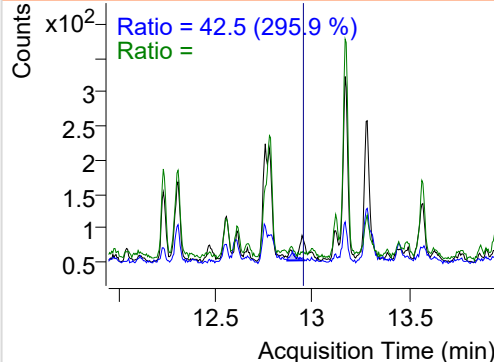
+ SIM (12.870-13.009 min, 26 scans) (**) 2301

**Pyrene**

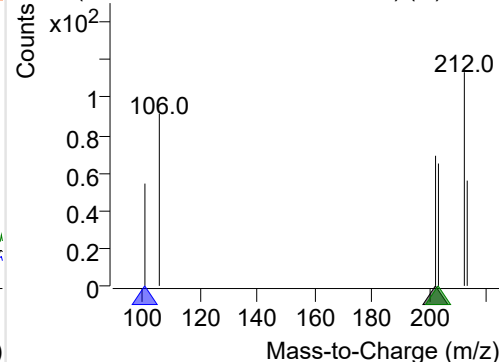
+ Selected Ion (202.0) 230112-PAHs-037.D



202.0, 101.0, 203.0



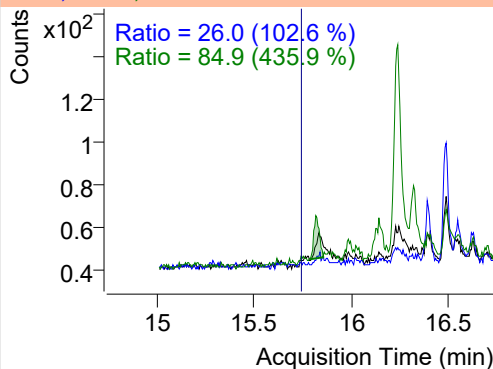
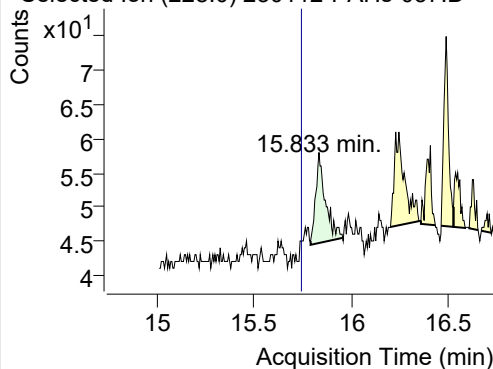
+ SIM (12.924-13.014 min, 17 scans) (**) 2301



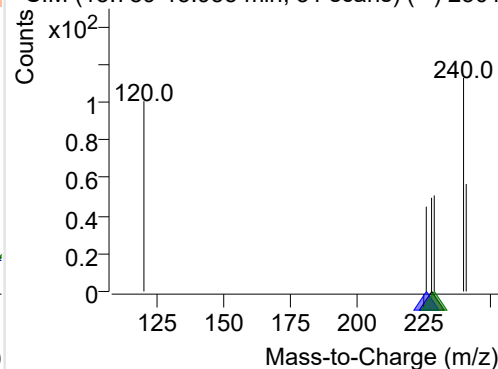
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-037.D

228.0, 226.0, 229.0

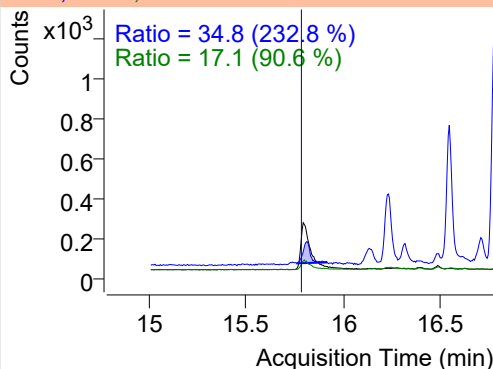
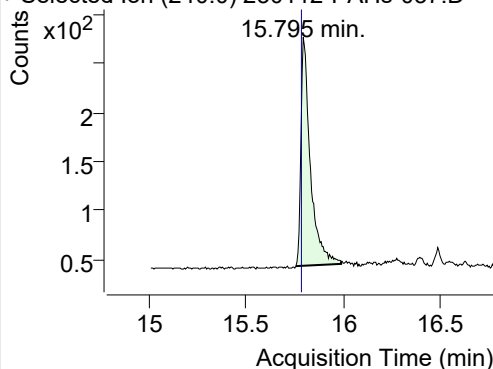


+ SIM (15.789-15.955 min, 31 scans) (**) 2301

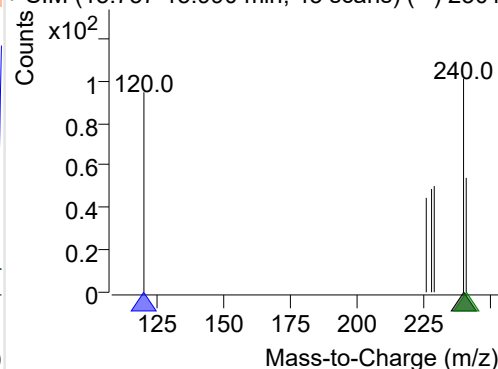
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-037.D

240.0, 120.0, 241.0

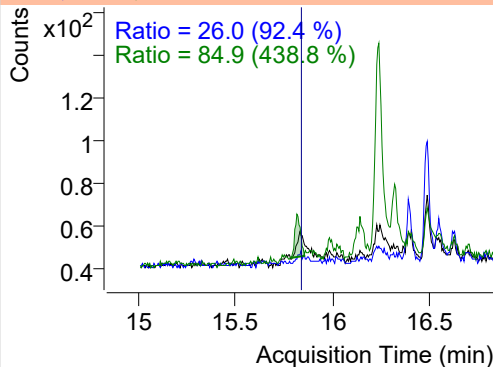
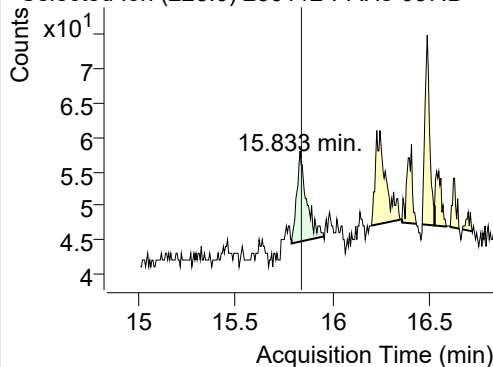


+ SIM (15.757-15.990 min, 43 scans) (**) 2301

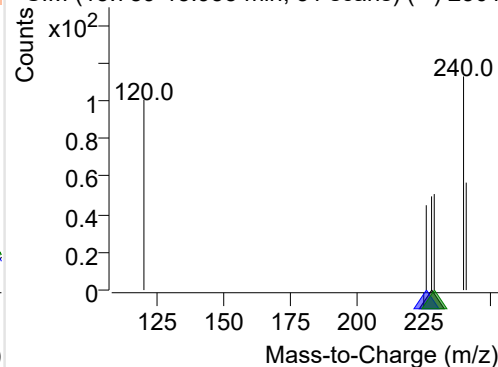
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-037.D

228.0, 226.0, 229.0

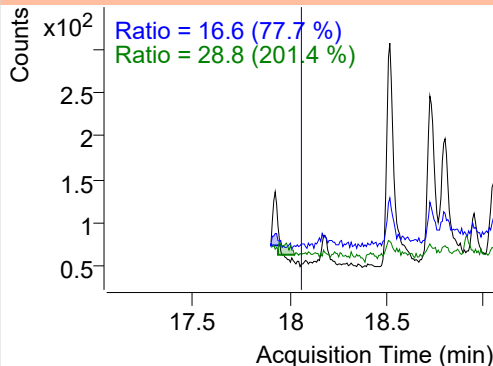
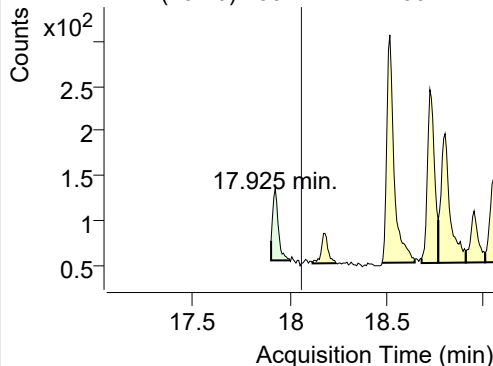


+ SIM (15.789-15.955 min, 31 scans) (**) 2301

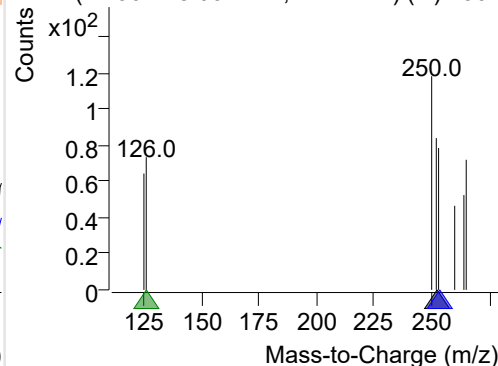
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-037.D

252.0, 253.0, 126.0



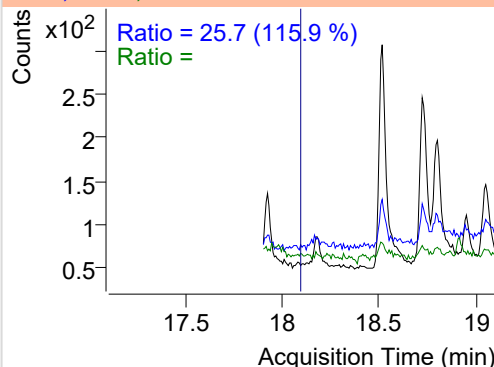
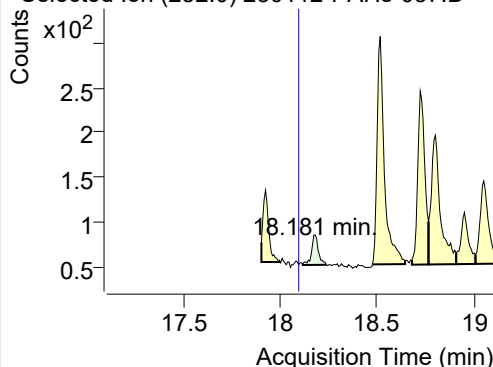
+ SIM (17.904-18.001 min, 14 scans) (**) 2301



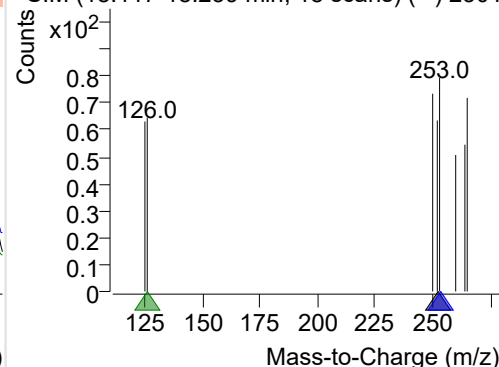
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-037.D

252.0, 253.0, 126.0

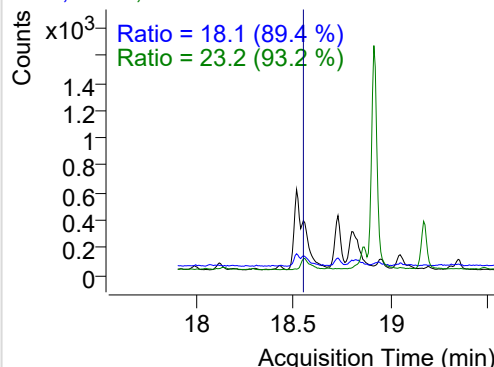
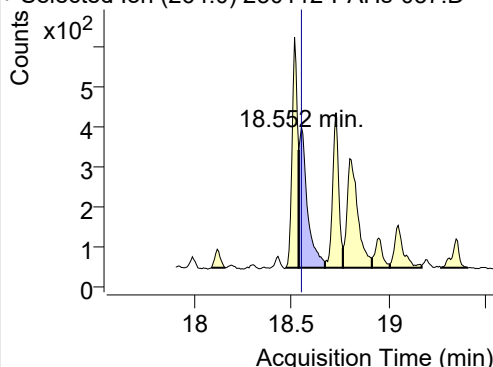


+ SIM (18.117-18.239 min, 18 scans) (**) 2301

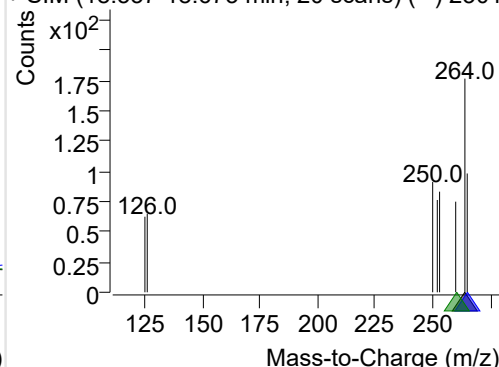
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-037.D

264.0, 265.0, 260.0

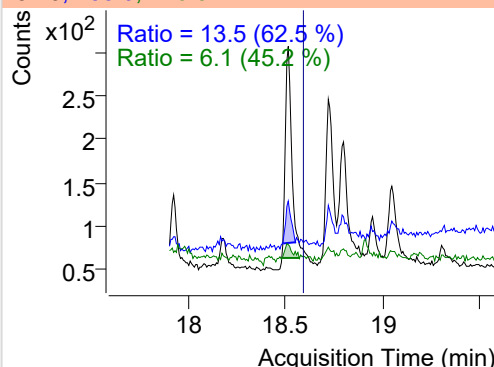
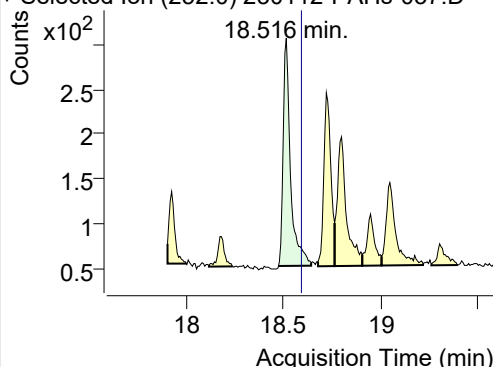


+ SIM (18.537-18.673 min, 20 scans) (**) 2301

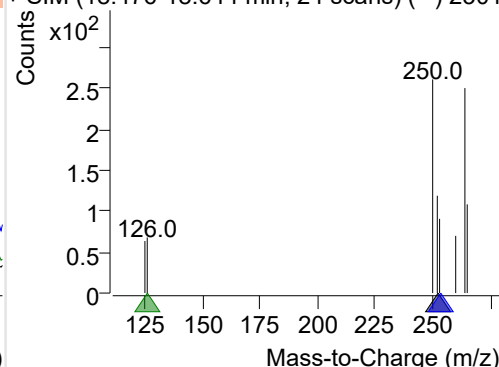
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-037.D

252.0, 253.0, 126.0

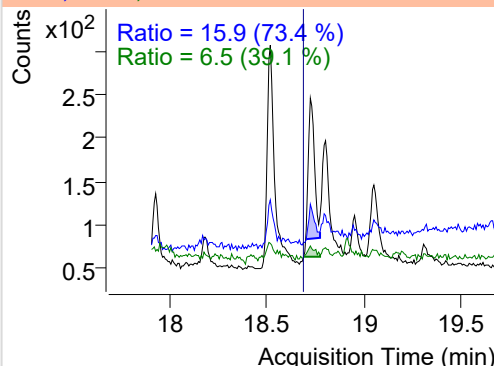
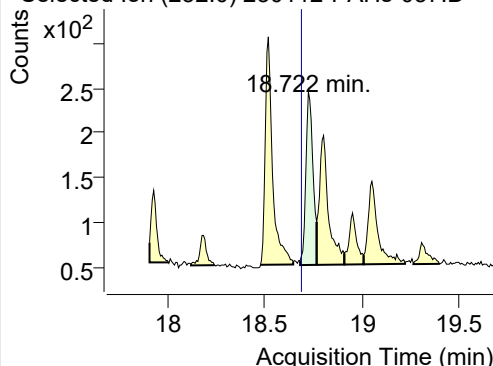


+ SIM (18.476-18.644 min, 24 scans) (**) 2301

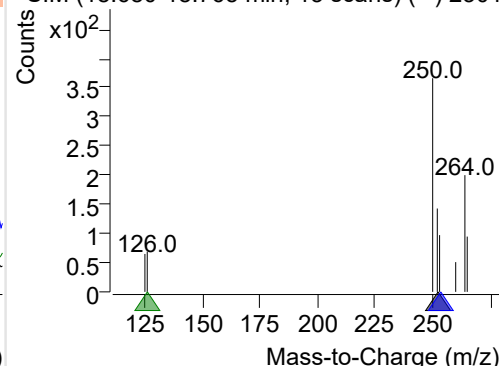
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-037.D

252.0, 253.0, 126.0



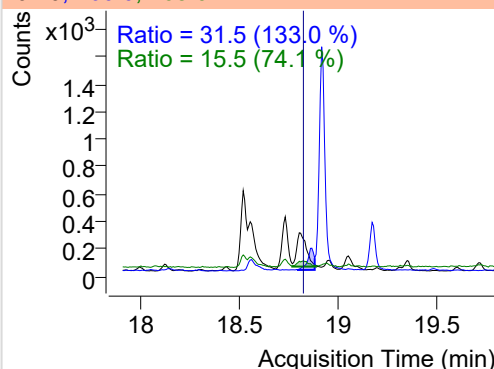
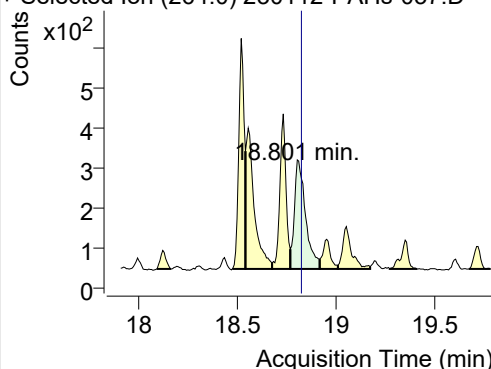
+ SIM (18.680-18.765 min, 13 scans) (**) 2301



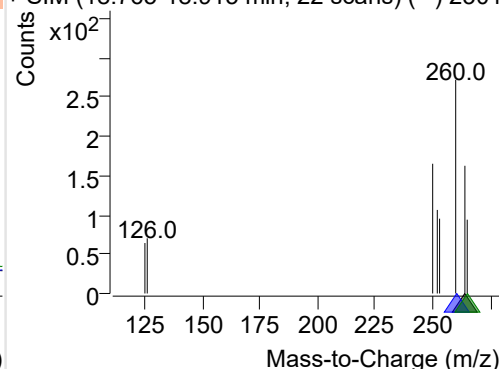
IS-D12-Perylene

+ Selected Ion (264.0) 230112-PAHs-037.D

264.0, 260.0, 265.0



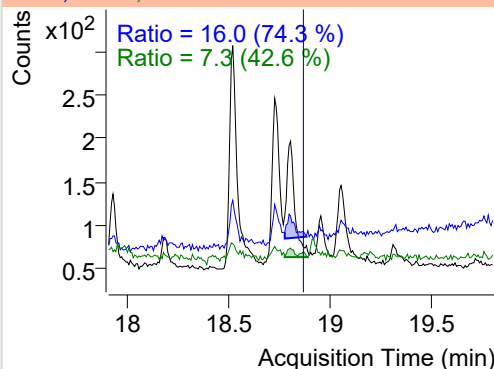
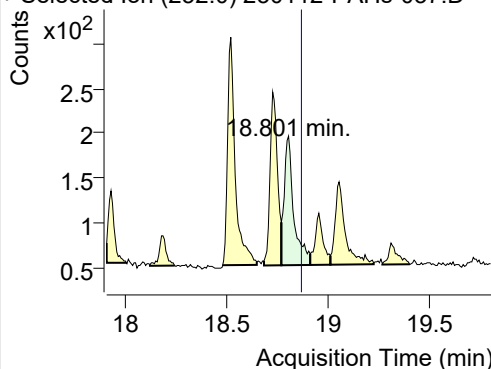
+ SIM (18.765-18.915 min, 22 scans) (**) 2301



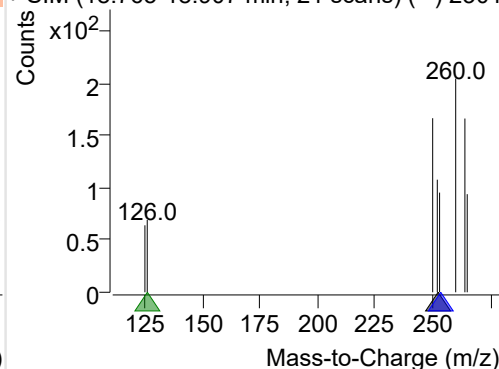
Perylene

+ Selected Ion (252.0) 230112-PAHs-037.D

252.0, 253.0, 126.0



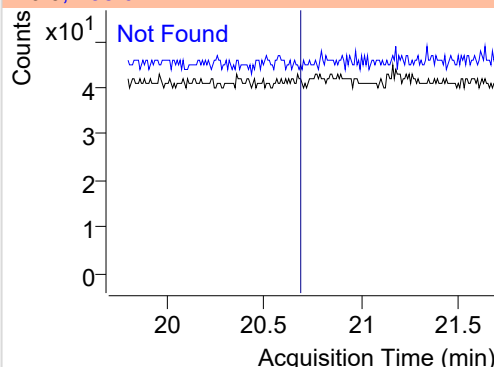
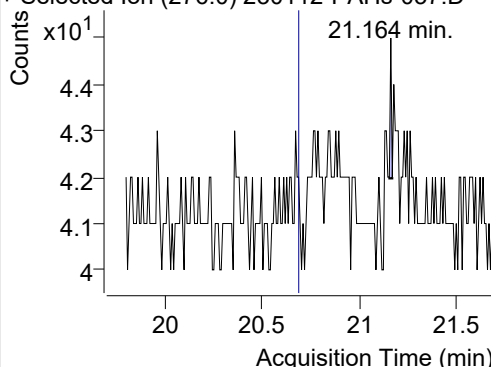
+ SIM (18.765-18.907 min, 21 scans) (**) 2301



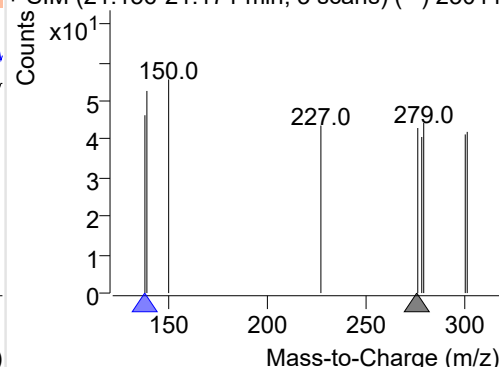
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 230112-PAHs-037.D

276.0, 138.0



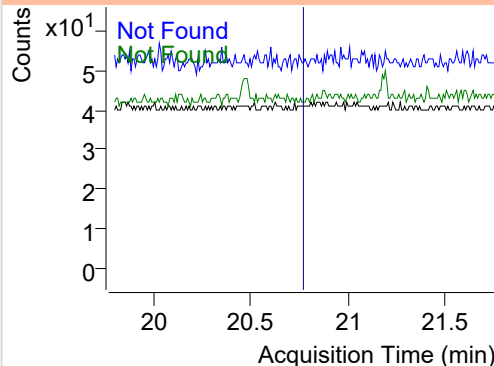
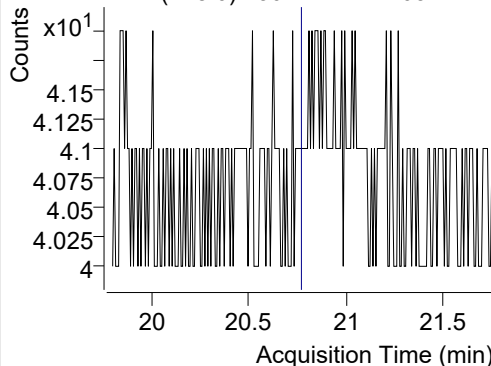
+ SIM (21.156-21.171 min, 3 scans) (**) 23011



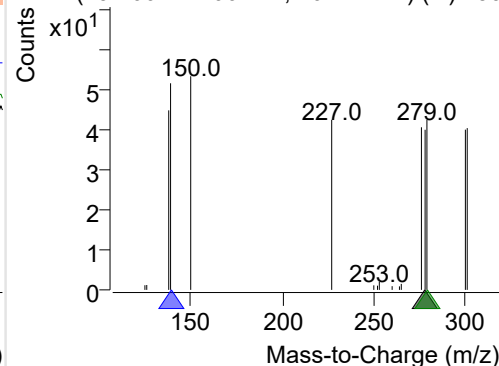
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-037.D

278.0, 139.0, 279.0



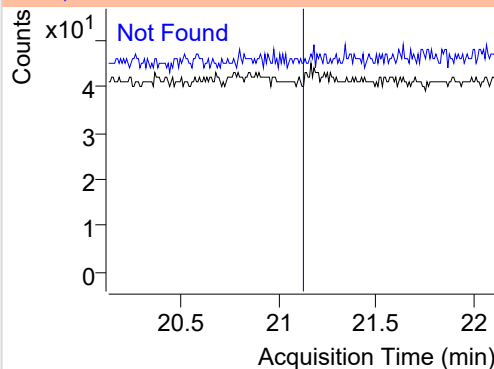
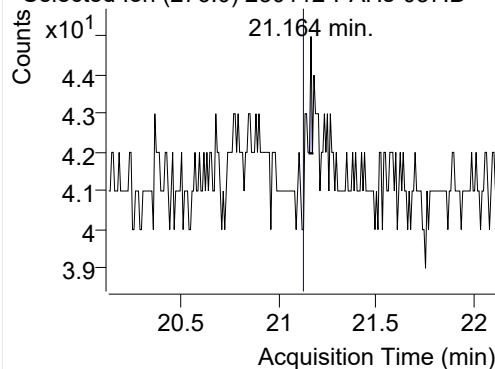
+ SIM (19.766-21.766 min, 262 scans) (**) 230



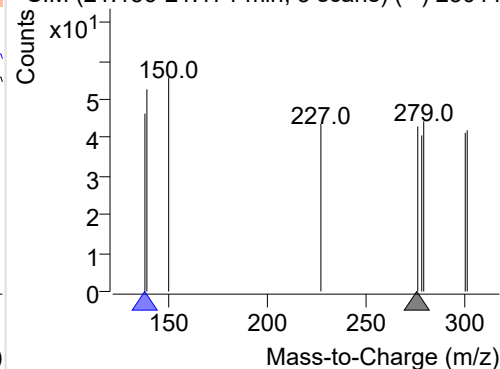
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-037.D

276.0, 138.0

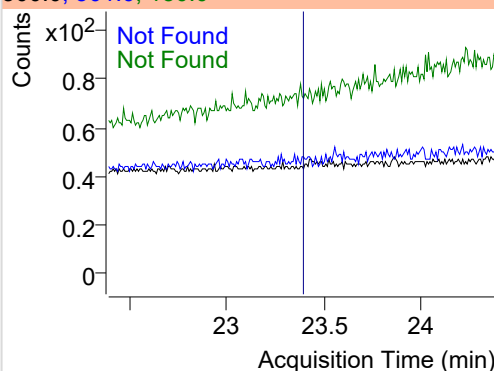
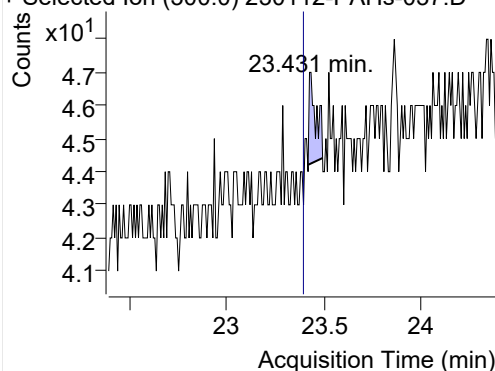


+ SIM (21.156-21.171 min, 3 scans) (**) 23011

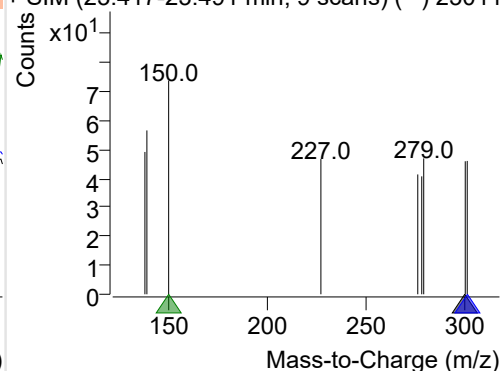
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-037.D

300.0, 301.0, 150.0



+ SIM (23.417-23.491 min, 9 scans) (**) 23011



Quantitative Analysis Sample Based Report

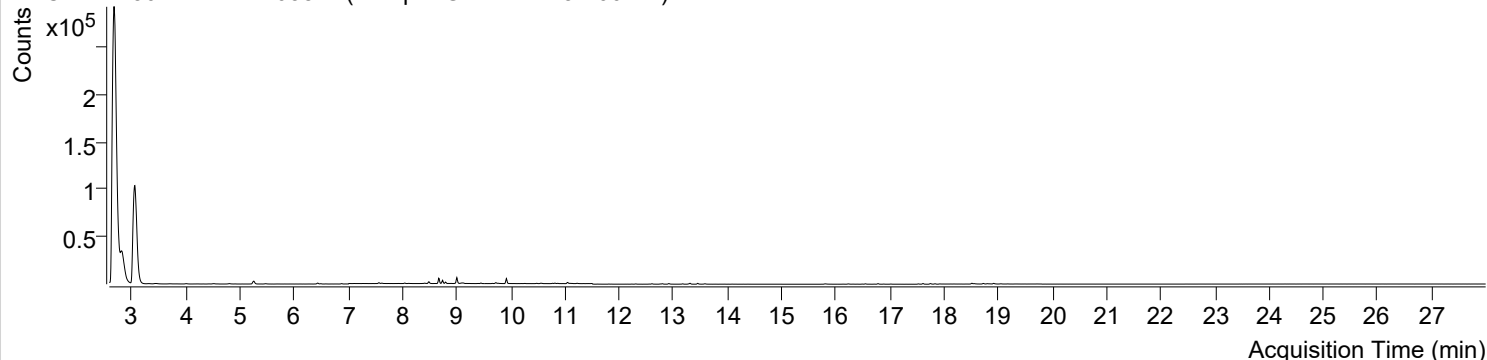


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 6:58:24	Data File	230112-PAHs-038.D
Type	Sample	Name	Sample-Gas-221225-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

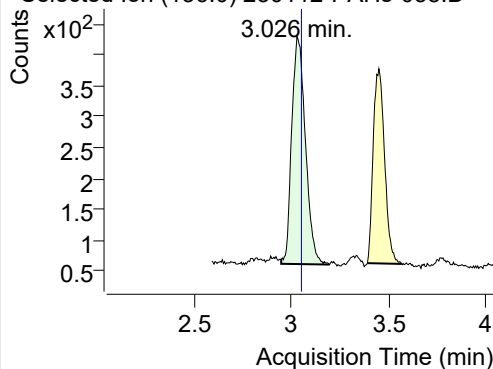
+ TIC SIM 230112-PAHs-038.D (Sample-Gas-221225-100DIL)



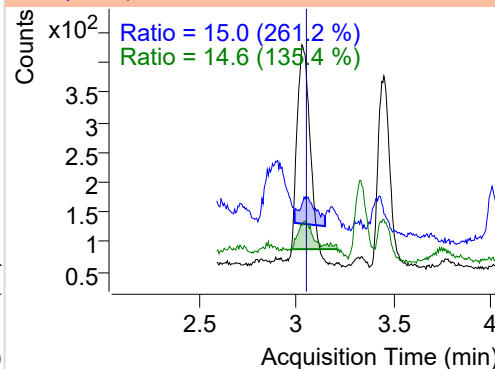
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.026	136.0	1798	366.96	ND ng/ml	14.6
Naphthalene	3.058	128.0	411086	83190.42	ND ng/ml	12.3
Acenaphthylene	6.487	152.0	125	64.57	ND ng/ml	48.3
IS-D10-Acenaphthene	6.434	164.0	969	459.91	ND ng/ml	93.3
Acenaphthene	6.499	154.0	150	71.90	ND ng/ml	112.1
LSS-D10-Fluorene	7.564	176.0	759	397.99	ND ng/ml	94.5
Fluorene	7.617	166.0	416	177.35	ND ng/ml	94.4
IS-D10-Phenanthrene	9.728	188.0	1541	687.44	ND ng/ml	18.7
Phenanthrene	9.770	178.0	405	148.08	ND ng/ml	16.8
Anthracene	9.917	178.0	2280	1354.08	ND ng/ml	28.1
Fluoranthene	12.478	202.0	23	15.20	ND ng/ml	
LSS-D10-Pyrene	12.917	212.0	886	433.53	ND ng/ml	22.4
Pyrene	12.944	202.0	32	14.40	ND ng/ml	
Benz(a)anthracene	15.833	228.0	50	11.13	ND ng/ml	25.3
IS-D12-Chrysene	15.800	240.0	752	208.33	ND ng/ml	18.1
Chrysene	15.833	228.0	50	11.13	ND ng/ml	25.3
Benzo(b)fluoranthene	17.918	252.0	66	36.00	ND ng/ml	
Benzo(k)fluoranthene	18.181	252.0	43	17.52	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.552	264.0	861	265.91	ND ng/ml	23.9
Benzo(e)pyrene	18.516	252.0	265	117.11	ND ng/ml	18.9
Benzo(a)pyrene	18.722	252.0	196	84.82	ND ng/ml	16.1
IS-D12-Perylene	18.808	264.0	589	121.63	ND ng/ml	24.7
Perylene	18.794	252.0	174	64.03	ND ng/ml	13.8
Indeno(1,2,3-c,d)pyrene		276.0			ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene		276.0			ND ng/ml	
Coronene	24.187	300.0	11	4.10	ND ng/ml	

IS-D8-Naphthalene

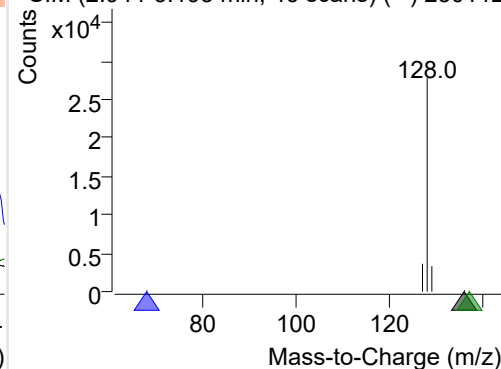
+ Selected Ion (136.0) 230112-PAHs-038.D



136.0, 68.0, 137.0

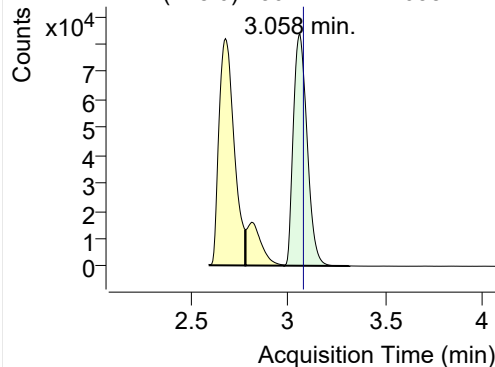


+ SIM (2.944-3.193 min, 46 scans) (**) 230112

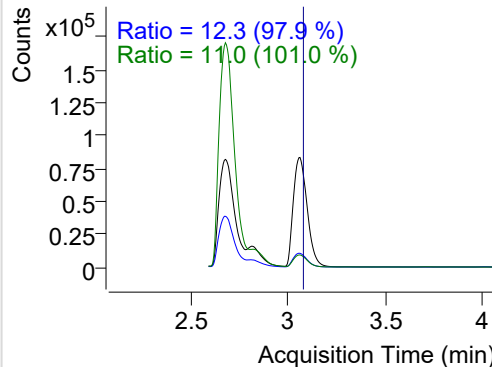


Naphthalene

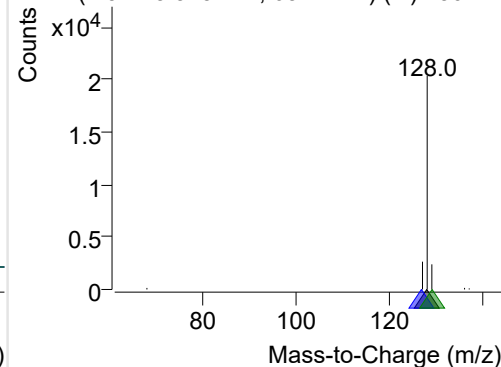
+ Selected Ion (128.0) 230112-PAHs-038.D



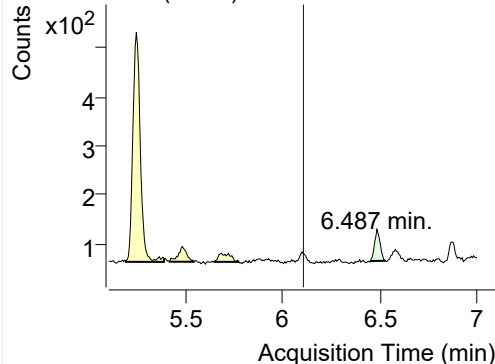
128.0, 127.0, 129.0



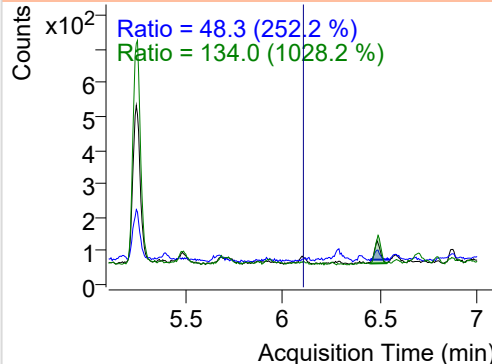
+ SIM (2.977-3.313 min, 63 scans) (**) 230112

**Acenaphthylene**

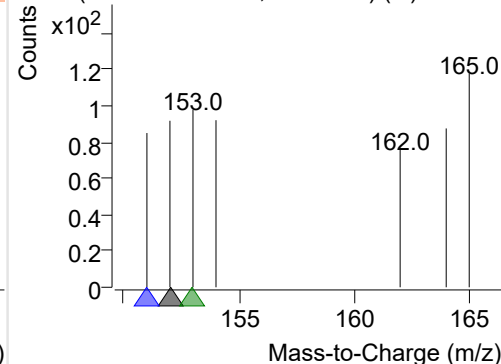
+ Selected Ion (152.0) 230112-PAHs-038.D



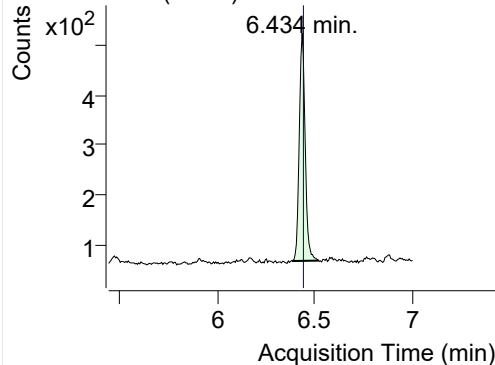
152.0, 151.0, 153.0



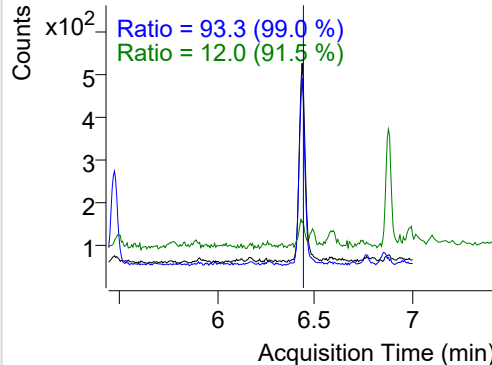
+ SIM (6.453-6.531 min, 13 scans) (**) 230112

**IS-D10-Acenaphthene**

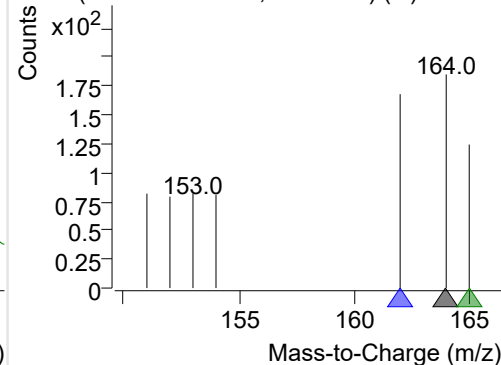
+ Selected Ion (164.0) 230112-PAHs-038.D



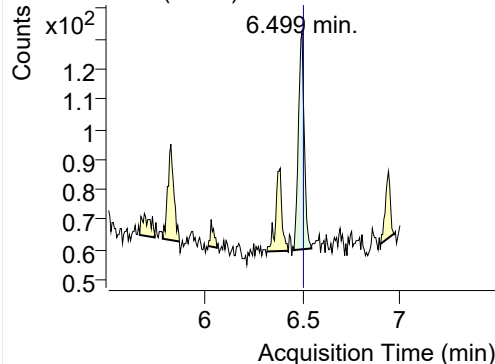
164.0, 162.0, 165.0



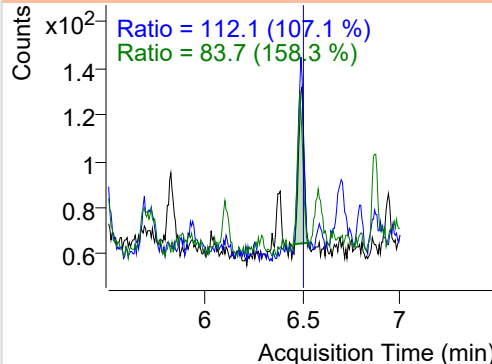
+ SIM (6.386-6.519 min, 23 scans) (**) 230112

**Acenaphthene**

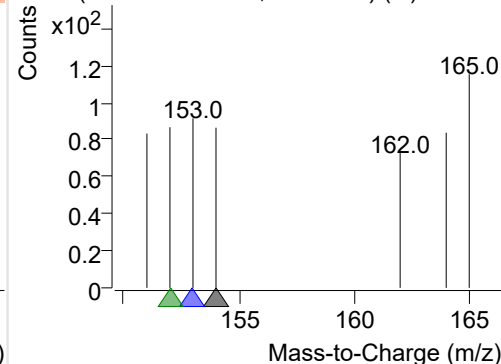
+ Selected Ion (154.0) 230112-PAHs-038.D



154.0, 153.0, 152.0

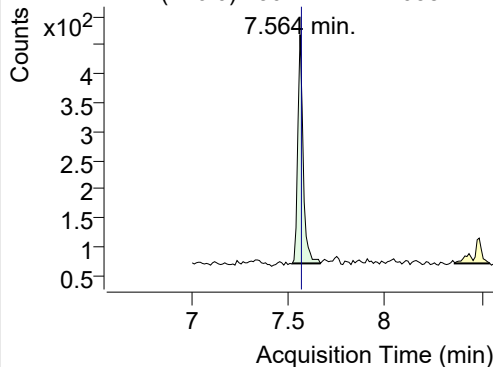


+ SIM (6.457-6.546 min, 16 scans) (**) 230112

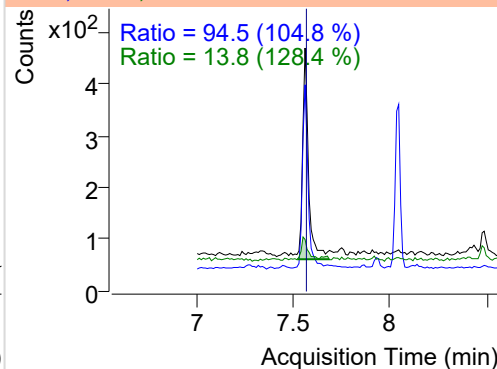


LSS-D10-Fluorene

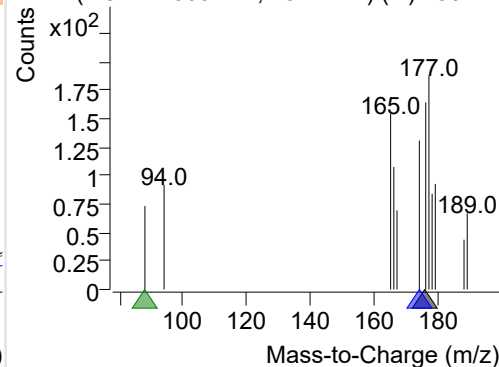
+ Selected Ion (176.0) 230112-PAHs-038.D



176.0, 174.0, 88.0

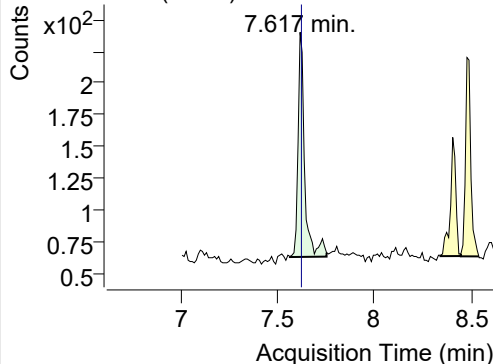


+ SIM (7.524-7.669 min, 13 scans) (**) 230112

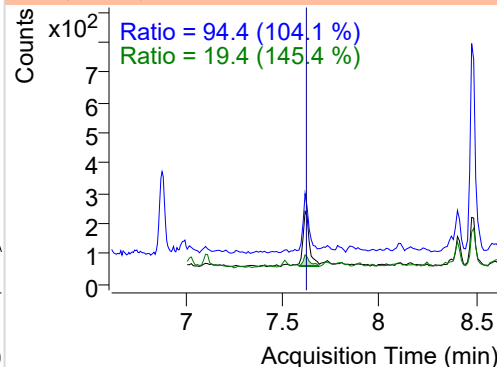


Fluorene

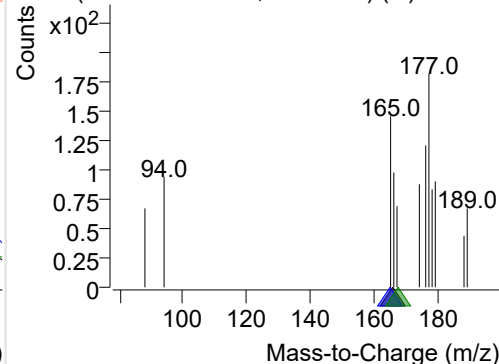
+ Selected Ion (166.0) 230112-PAHs-038.D



166.0, 165.0, 167.0

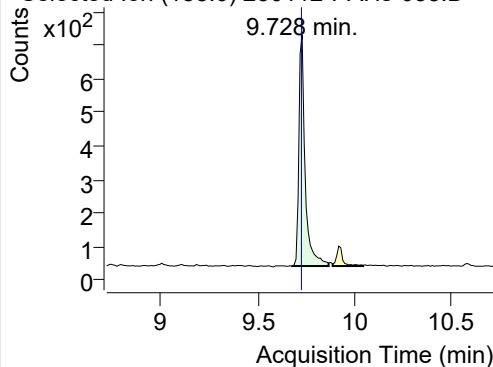


+ SIM (7.564-7.753 min, 19 scans) (**) 230112

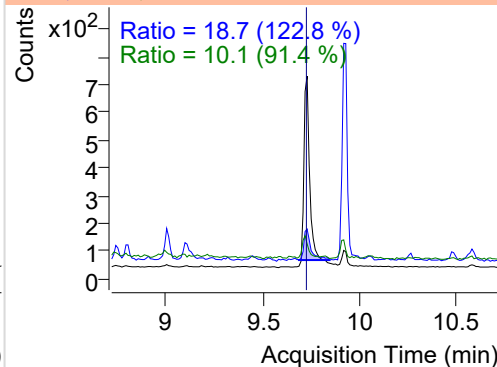


IS-D10-Phenanthrene

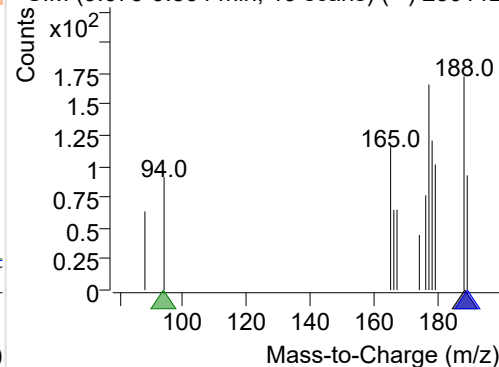
+ Selected Ion (188.0) 230112-PAHs-038.D



188.0, 189.0, 94.0

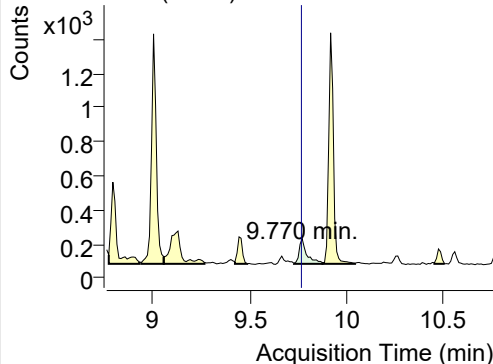


+ SIM (9.675-9.864 min, 19 scans) (**) 230112

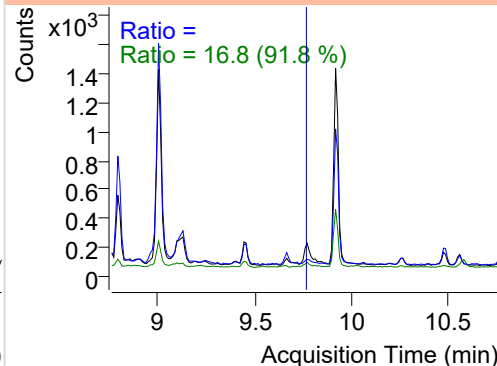


Phenanthrene

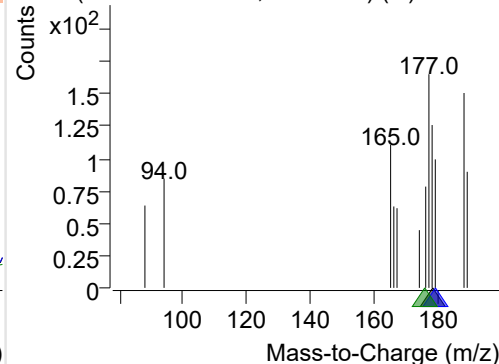
+ Selected Ion (178.0) 230112-PAHs-038.D



178.0, 179.0, 176.0

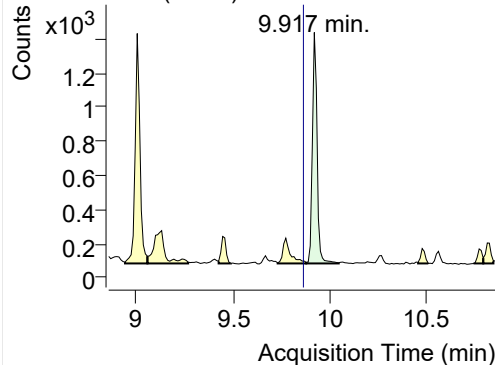


+ SIM (9.728-9.875 min, 15 scans) (**) 230112

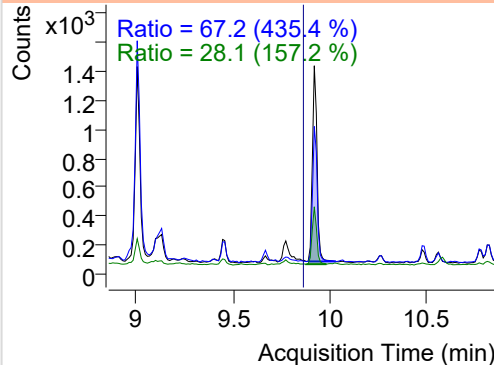


Anthracene

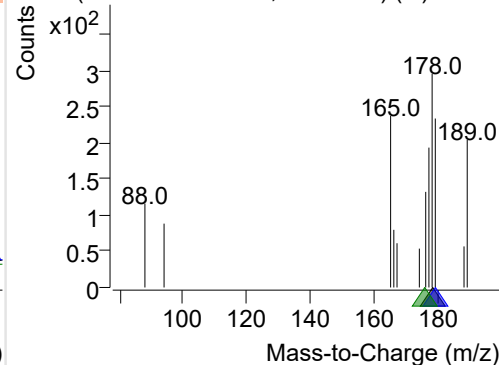
+ Selected Ion (178.0) 230112-PAHs-038.D



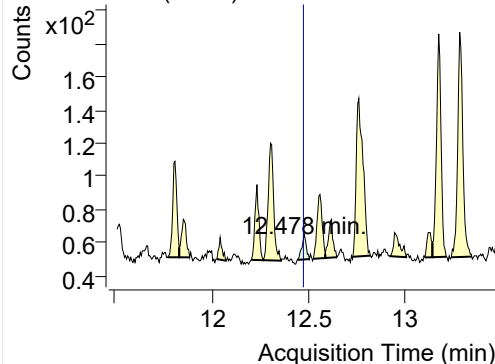
178.0, 179.0, 176.0



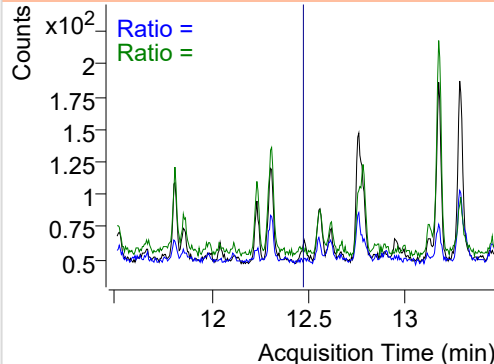
+ SIM (9.875-10.043 min, 17 scans) (**) 23011

**Fluoranthene**

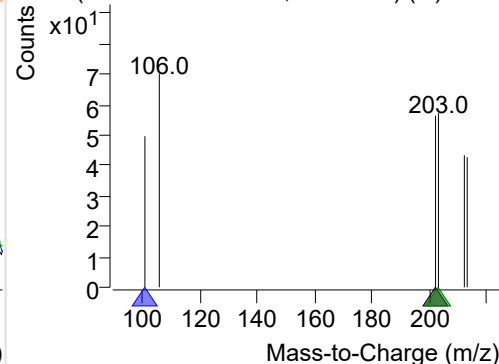
+ Selected Ion (202.0) 230112-PAHs-038.D



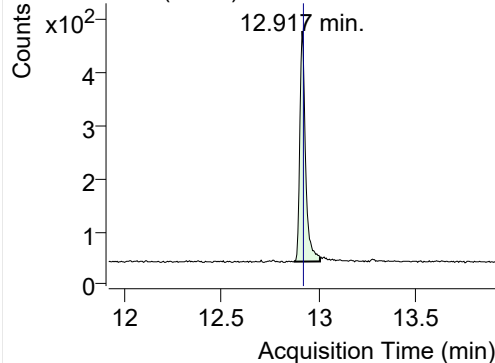
202.0, 101.0, 203.0



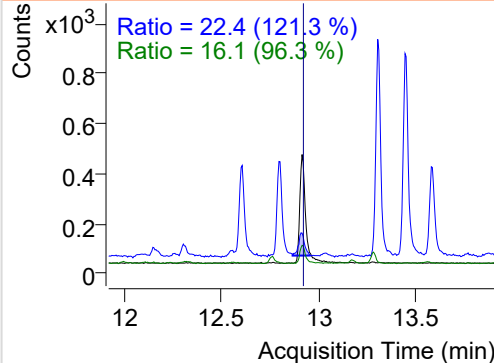
+ SIM (12.442-12.505 min, 11 scans) (**) 23011

**LSS-D10-Pyrene**

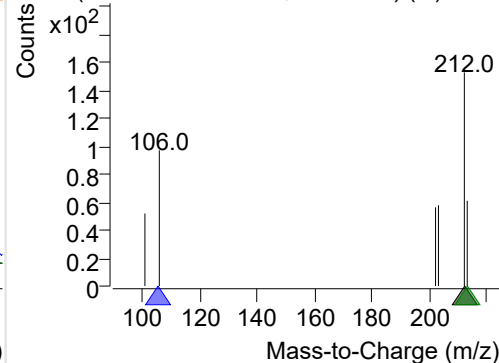
+ Selected Ion (212.0) 230112-PAHs-038.D



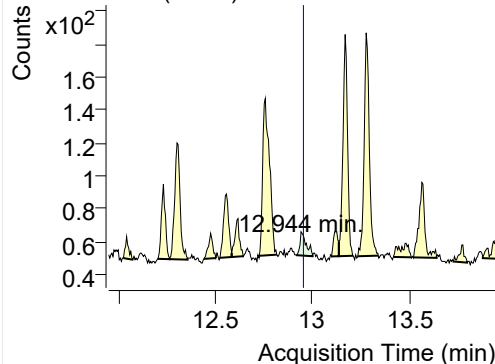
212.0, 106.0, 213.0



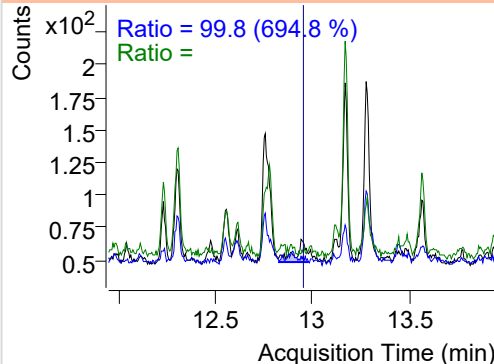
+ SIM (12.874-13.009 min, 25 scans) (**) 23011

**Pyrene**

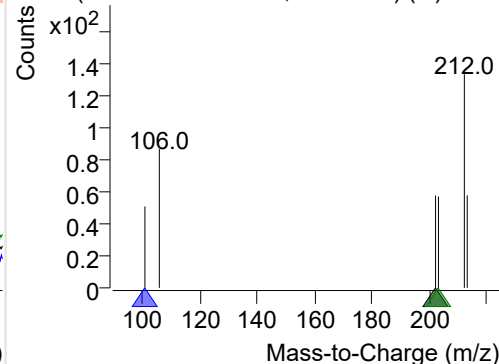
+ Selected Ion (202.0) 230112-PAHs-038.D



202.0, 101.0, 203.0



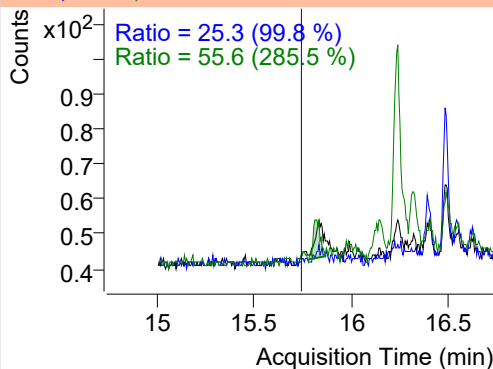
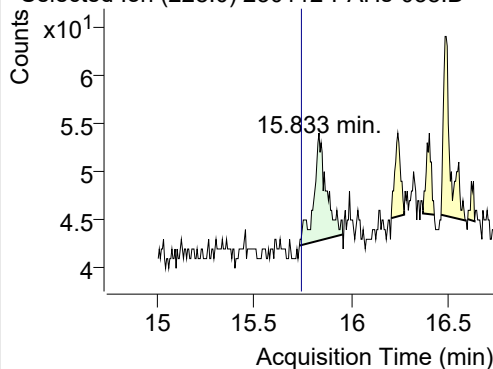
+ SIM (12.922-13.003 min, 16 scans) (**) 23011



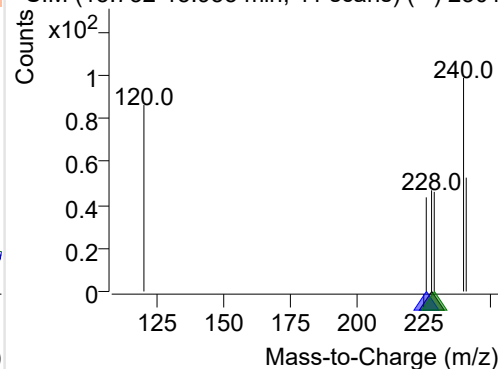
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-038.D

228.0, 226.0, 229.0

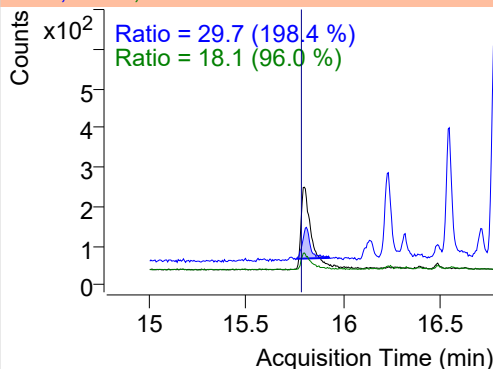
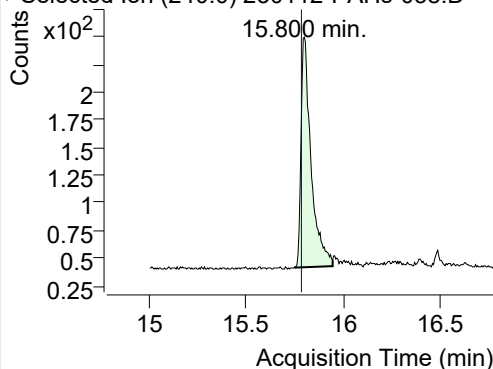


+ SIM (15.732-15.955 min, 41 scans) (**) 2301

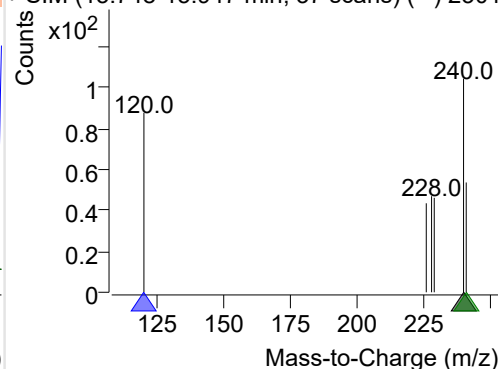
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-038.D

240.0, 120.0, 241.0

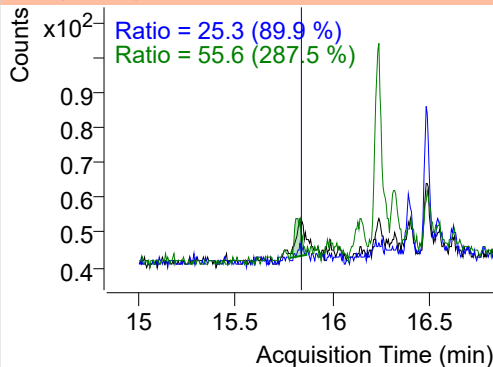
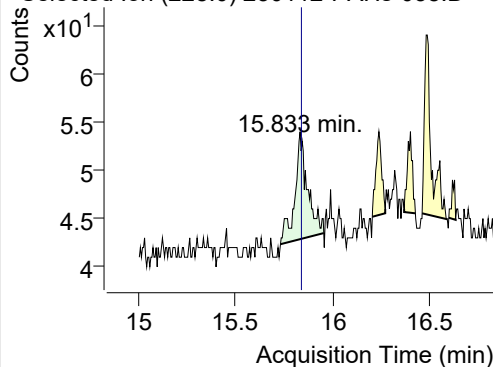


+ SIM (15.748-15.947 min, 37 scans) (**) 2301

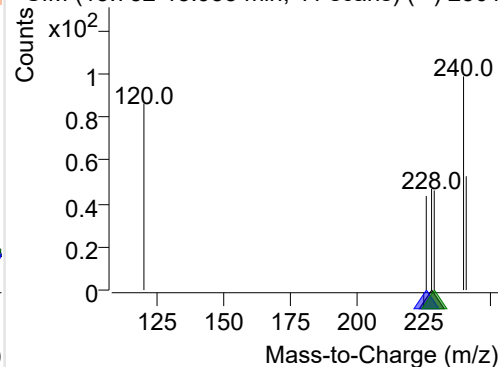
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-038.D

228.0, 226.0, 229.0

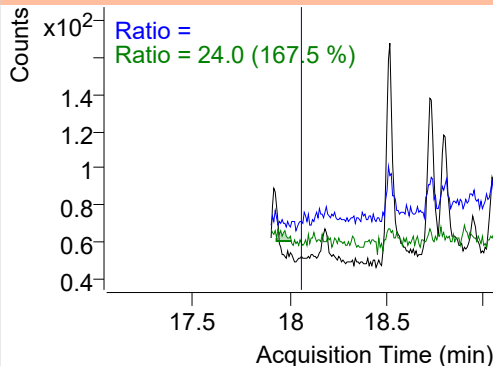
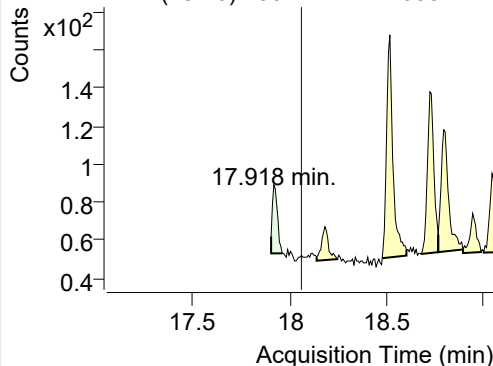


+ SIM (15.732-15.955 min, 41 scans) (**) 2301

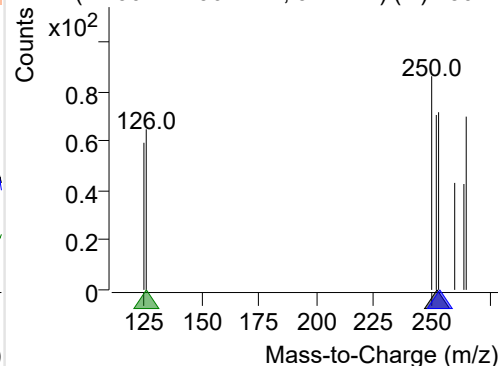
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-038.D

252.0, 253.0, 126.0



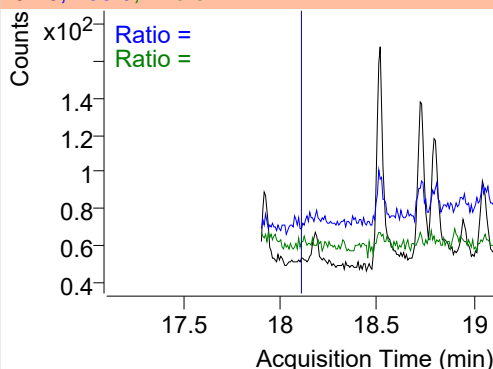
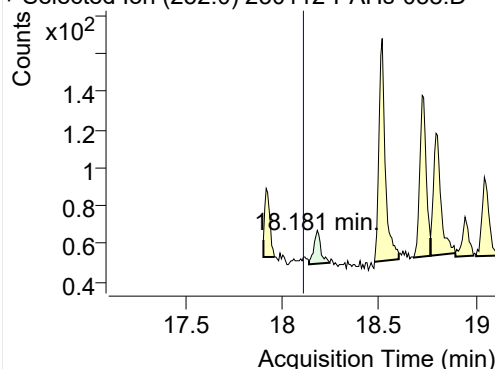
+ SIM (17.904-17.961 min, 9 scans) (**) 23011



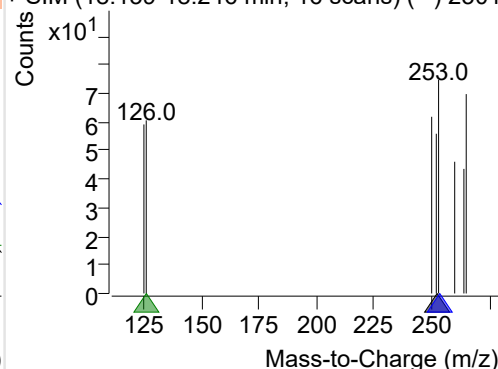
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-038.D

252.0, 253.0, 126.0

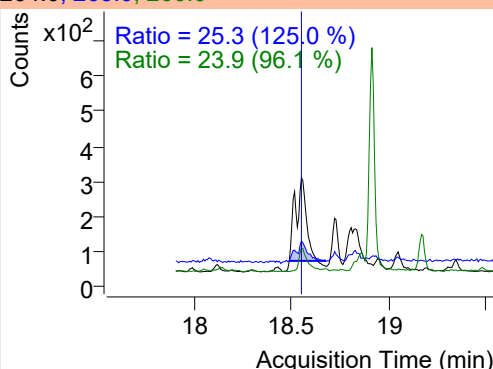
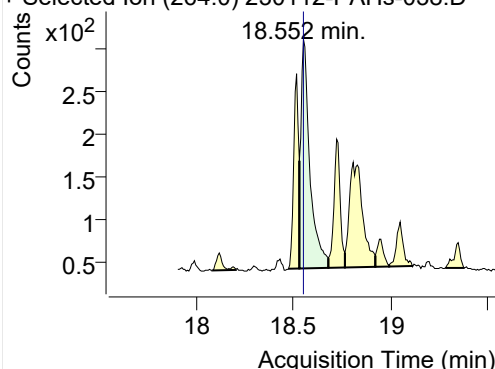


+ SIM (18.139-18.246 min, 16 scans) (**) 2301

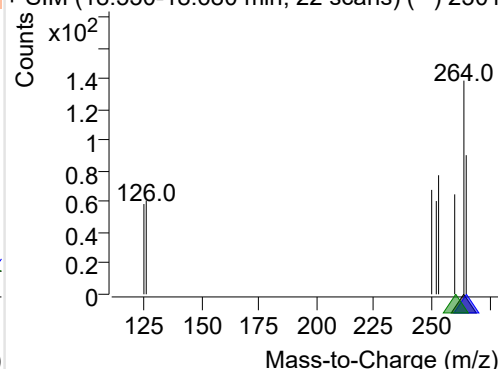
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-038.D

264.0, 265.0, 260.0

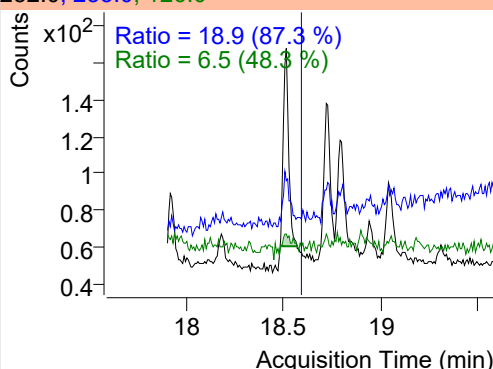
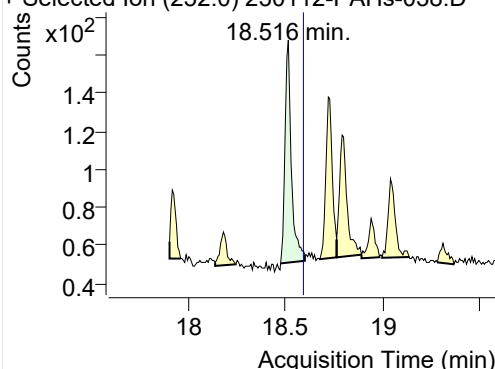


+ SIM (18.530-18.680 min, 22 scans) (**) 2301

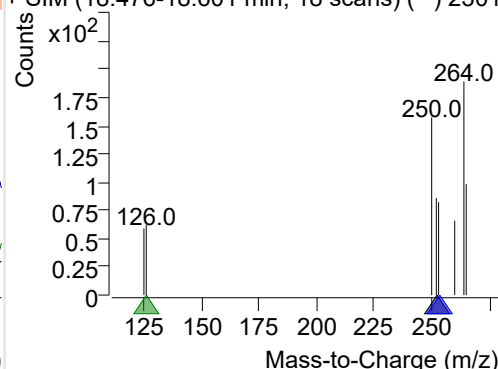
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-038.D

252.0, 253.0, 126.0

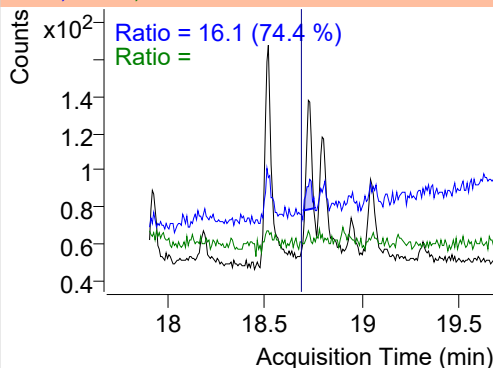
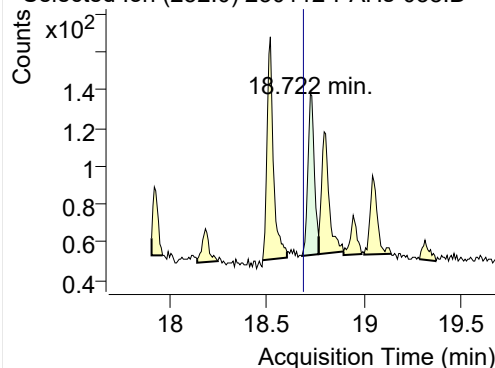


+ SIM (18.476-18.601 min, 18 scans) (**) 2301

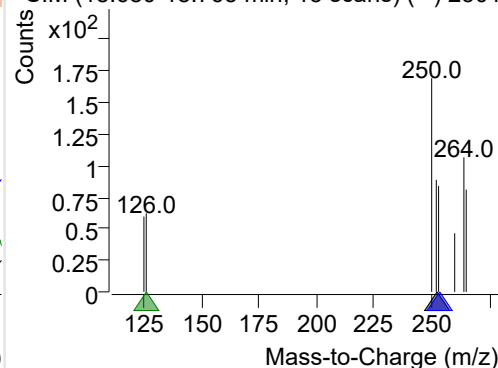
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-038.D

252.0, 253.0, 126.0



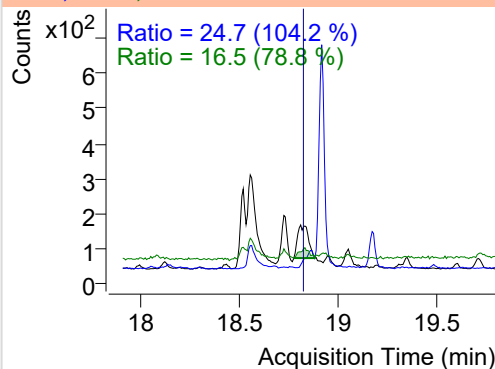
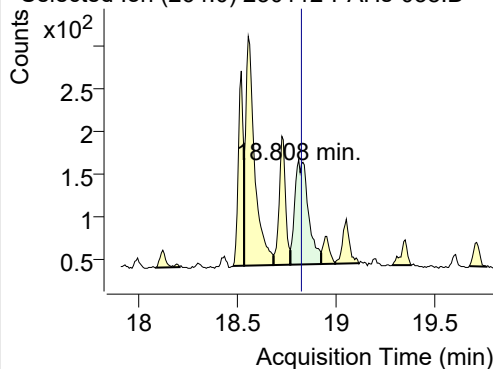
+ SIM (18.680-18.765 min, 13 scans) (**) 2301



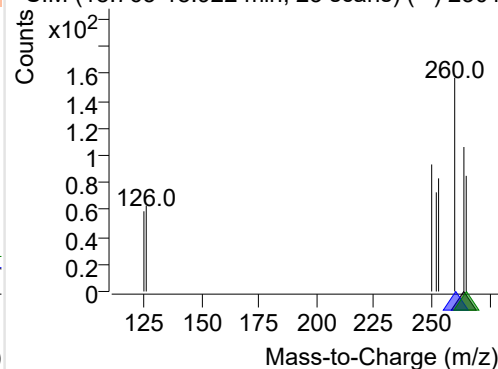
IS-D12-Perylene

+ Selected Ion (264.0) 230112-PAHs-038.D

264.0, 260.0, 265.0



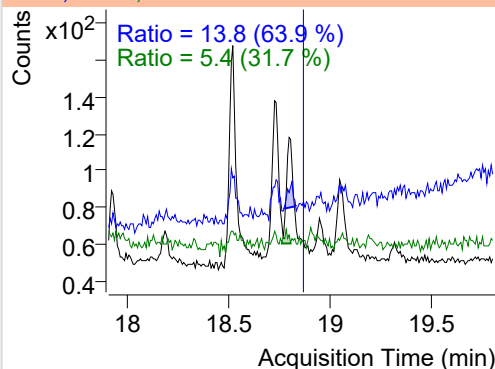
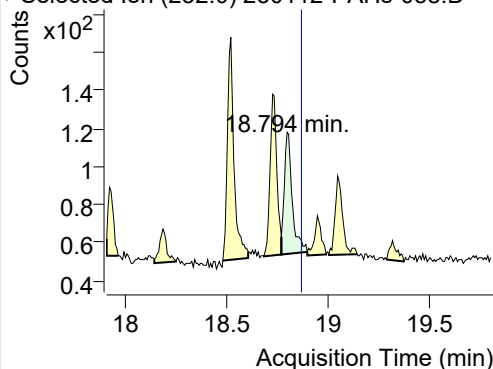
+ SIM (18.765-18.922 min, 23 scans) (**) 2301



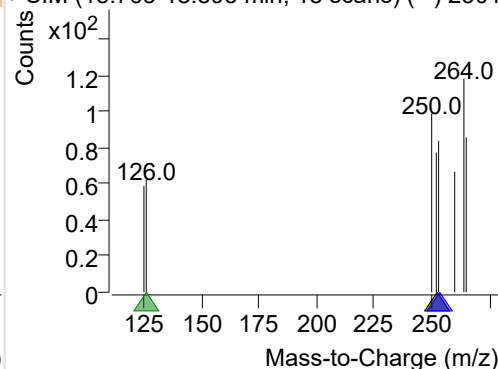
Perylene

+ Selected Ion (252.0) 230112-PAHs-038.D

252.0, 253.0, 126.0



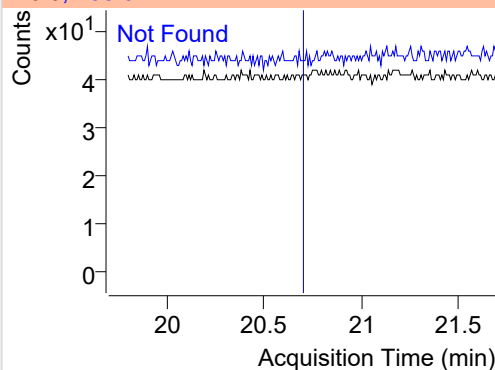
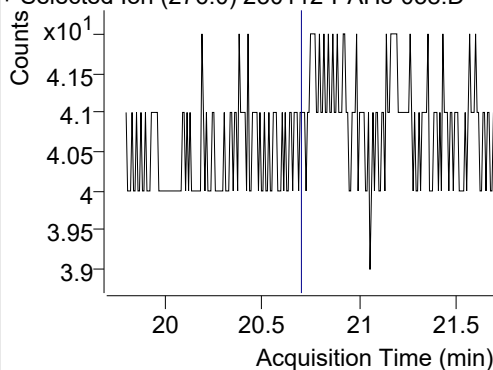
+ SIM (18.765-18.893 min, 18 scans) (**) 2301



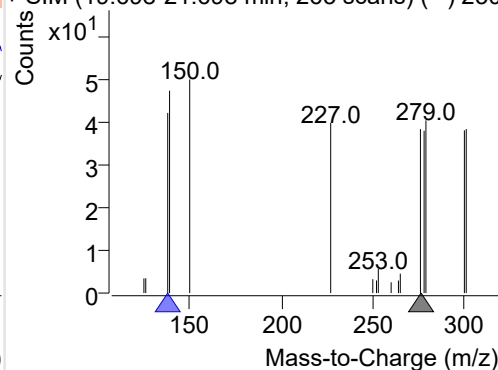
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 230112-PAHs-038.D

276.0, 138.0



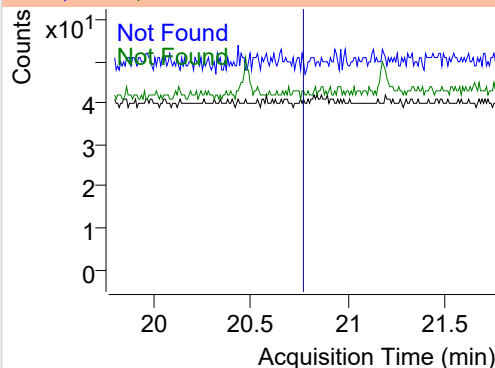
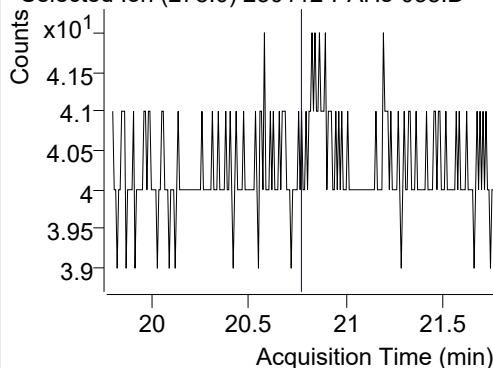
+ SIM (19.698-21.698 min, 263 scans) (**) 2301



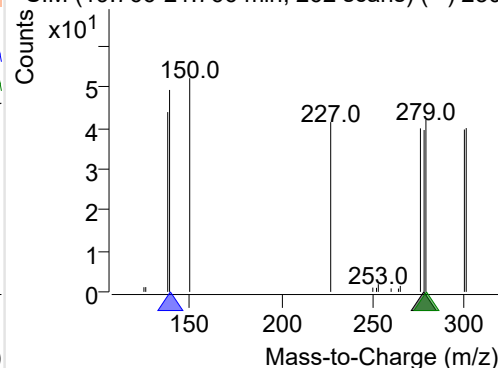
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-038.D

278.0, 139.0, 279.0



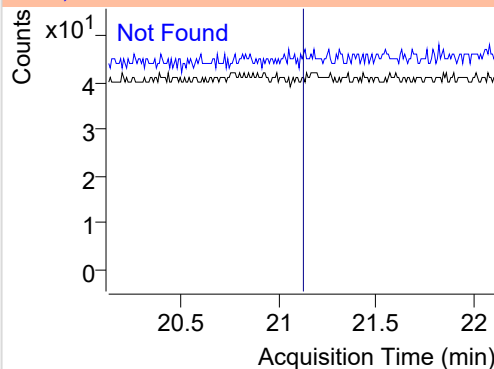
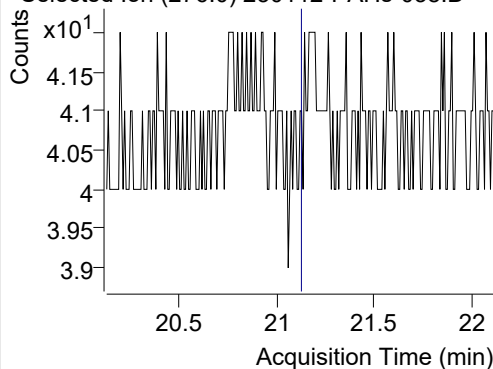
+ SIM (19.766-21.766 min, 262 scans) (**) 2301



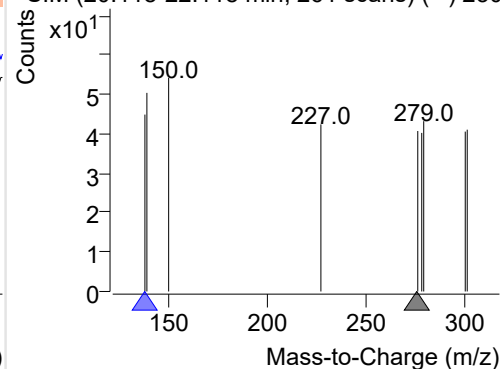
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-038.D

276.0, 138.0

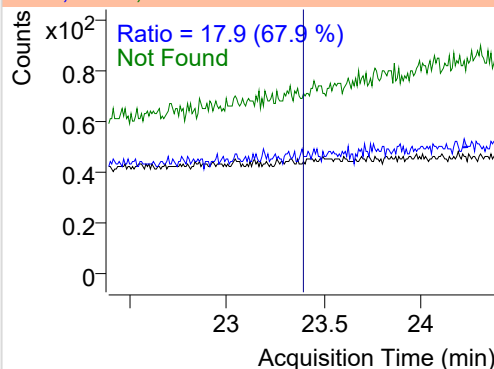
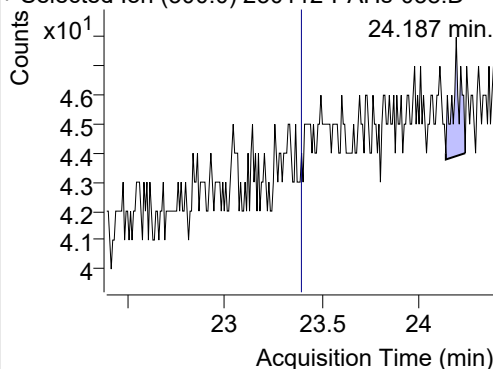


+ SIM (20.118-22.118 min, 261 scans) (**) 230

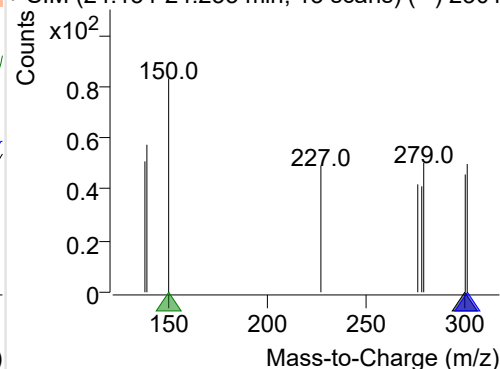
**Coronene**

+ Selected Ion (300.0) 230112-PAHs-038.D

300.0, 301.0, 150.0



+ SIM (24.134-24.233 min, 13 scans) (**) 2301



Quantitative Analysis Sample Based Report

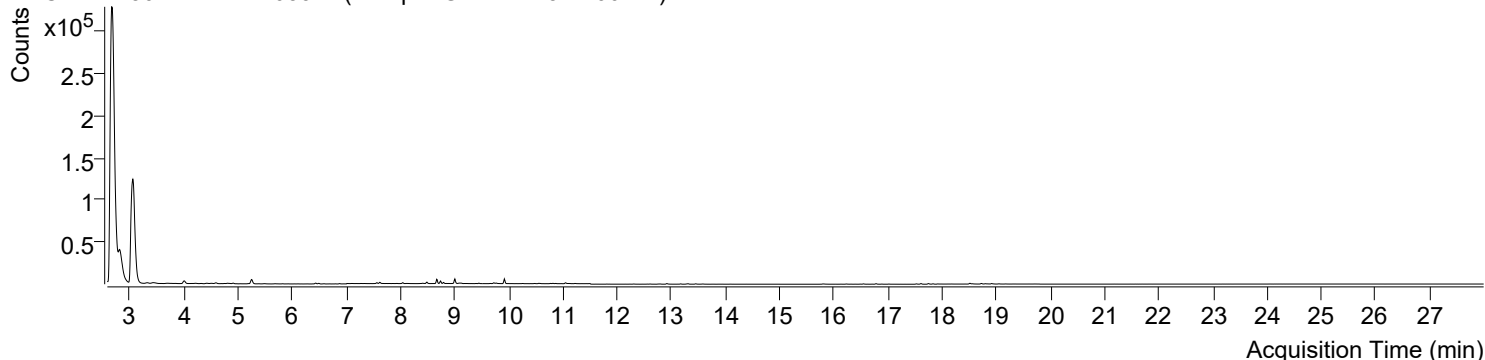


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\230112-PAHs Sample\QuantResults\230112-PAHs-Quant.batch.bin		
Analysis Time Stamp	2023-01-13 오전 11:02:05	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오전 11:02:16	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2023-01-13 오전 10:59:45	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2023-01-13 오전 7:29:52	Data File	230112-PAHs-039.D
Type	Sample	Name	Sample-Gas-221231-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

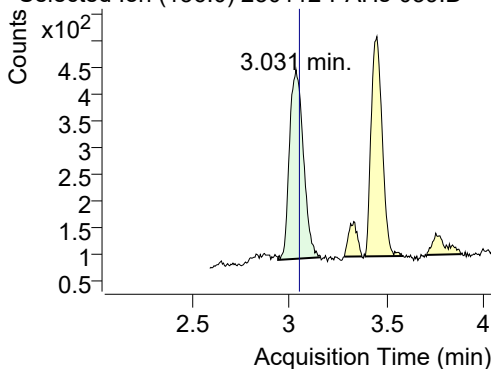
+ TIC SIM 230112-PAHs-039.D (Sample-Gas-221231-100DIL)



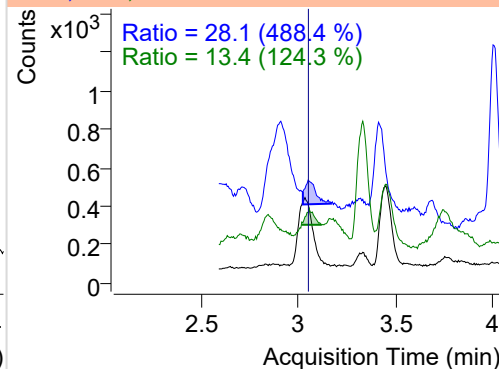
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	1765	354.96	ND ng/ml	13.4
Naphthalene	3.058	128.0	500744	99124.50	ND ng/ml	12.7
Acenaphthylene	6.102	152.0	171	71.60	ND ng/ml	19.5
IS-D10-Acenaphthene	6.433	164.0	1007	453.43	ND ng/ml	92.5
Acenaphthene	6.493	154.0	333	172.15	ND ng/ml	127.7
LSS-D10-Fluorene	7.564	176.0	878	453.70	ND ng/ml	93.4
Fluorene	7.617	166.0	1372	669.02	ND ng/ml	97.5
IS-D10-Phenanthrene	9.727	188.0	1532	685.50	ND ng/ml	21.7
Phenanthrene	9.769	178.0	836	342.54	ND ng/ml	18.2
Anthracene	9.916	178.0	2352	1479.54	ND ng/ml	28.3
Fluoranthene	12.472	202.0	48	23.30	ND ng/ml	
LSS-D10-Pyrene	12.917	212.0	1004	489.17	ND ng/ml	18.5
Pyrene	12.949	202.0	78	36.99	ND ng/ml	
Benz(a)anthracene	15.838	228.0	37	9.36	ND ng/ml	14.9
IS-D12-Chrysene	15.800	240.0	723	203.10	ND ng/ml	18.6
Chrysene	15.838	228.0	37	9.36	ND ng/ml	14.9
Benzo(b)fluoranthene	18.181	252.0	29	15.30	ND ng/ml	
Benzo(k)fluoranthene	18.181	252.0	29	15.30	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.559	264.0	494	174.30	ND ng/ml	30.0
Benzo(e)pyrene	18.516	252.0	281	128.30	ND ng/ml	17.3
Benzo(a)pyrene	18.730	252.0	212	96.72	ND ng/ml	17.9
IS-D12-Perylene	18.829	264.0	493	114.40	ND ng/ml	29.5
Perylene	18.794	252.0	177	69.34	ND ng/ml	18.2
Indeno(1,2,3-c,d)pytene		276.0			ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene		276.0			ND ng/ml	
Coronene		300.0			ND ng/ml	

IS-D8-Naphthalene

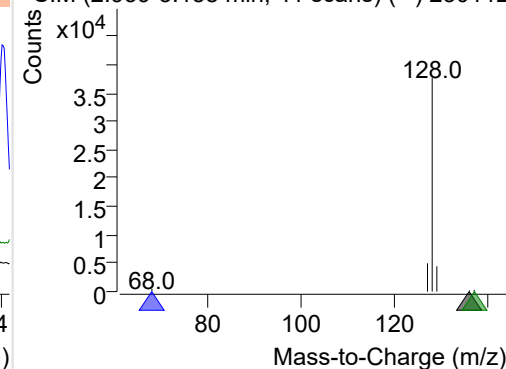
+ Selected Ion (136.0) 230112-PAHs-039.D



136.0, 68.0, 137.0

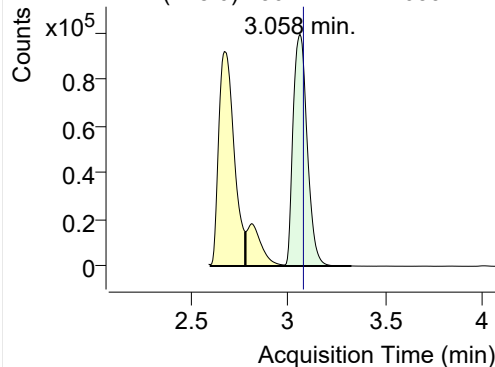


+ SIM (2.939-3.158 min, 41 scans) (**) 230112

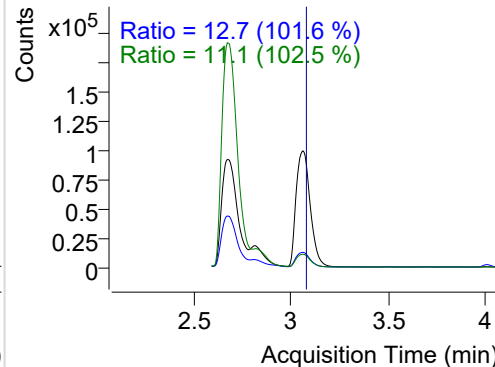


Naphthalene

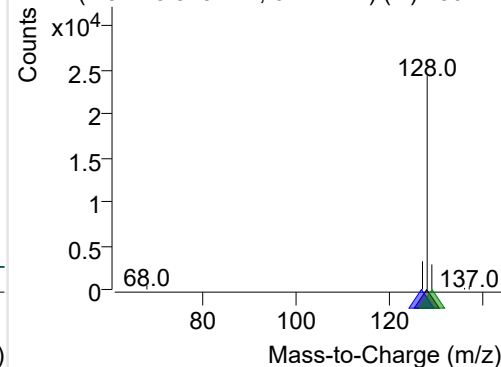
+ Selected Ion (128.0) 230112-PAHs-039.D



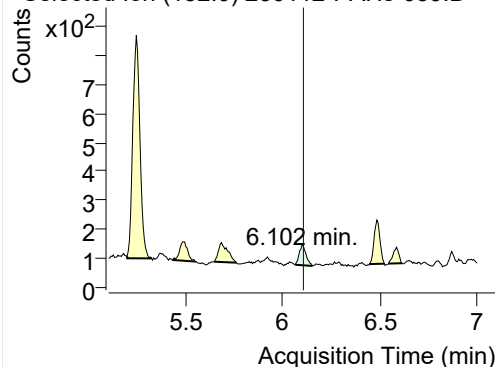
128.0, 127.0, 129.0



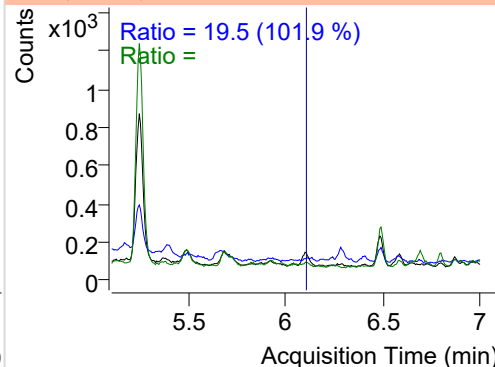
+ SIM (2.977-3.323 min, 64 scans) (**) 230112

**Acenaphthylene**

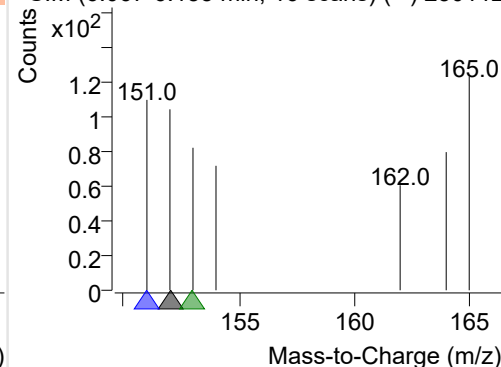
+ Selected Ion (152.0) 230112-PAHs-039.D



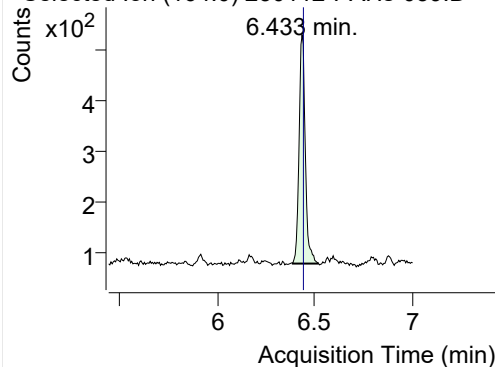
152.0, 151.0, 153.0



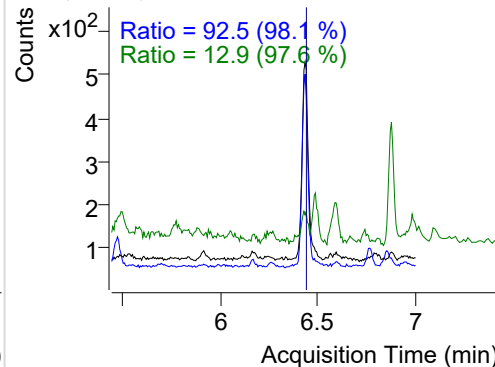
+ SIM (6.067-6.155 min, 16 scans) (**) 230112

**IS-D10-Acenaphthene**

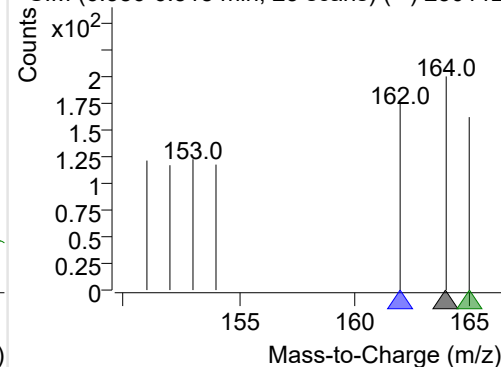
+ Selected Ion (164.0) 230112-PAHs-039.D



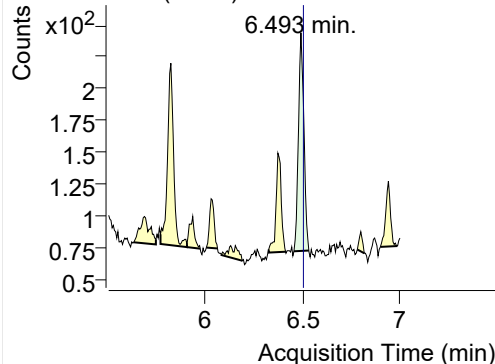
164.0, 162.0, 165.0



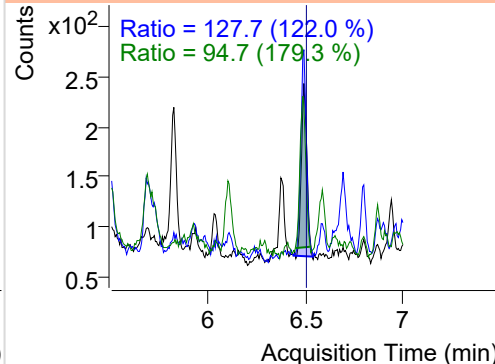
+ SIM (6.386-6.518 min, 23 scans) (**) 230112

**Acenaphthene**

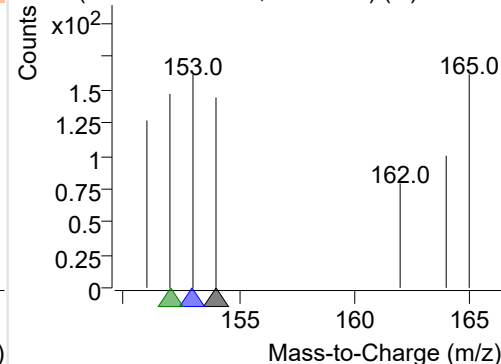
+ Selected Ion (154.0) 230112-PAHs-039.D



154.0, 153.0, 152.0

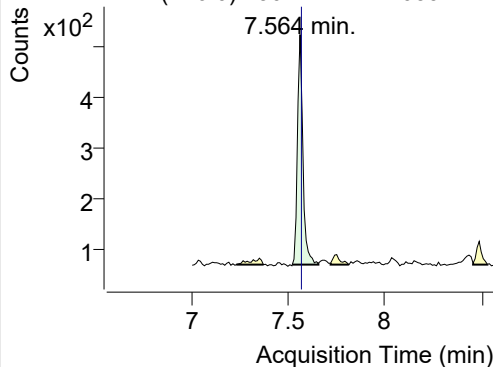


+ SIM (6.456-6.533 min, 13 scans) (**) 230112

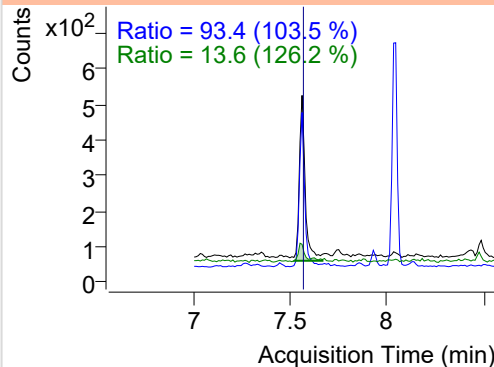


LSS-D10-Fluorene

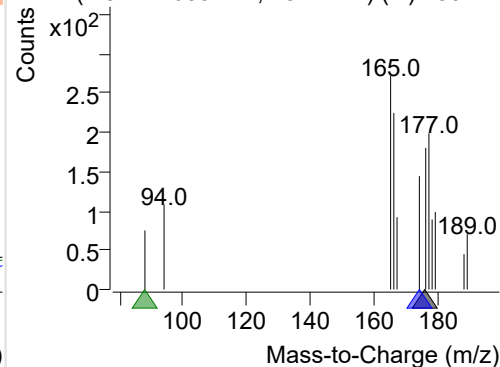
+ Selected Ion (176.0) 230112-PAHs-039.D



176.0, 174.0, 88.0

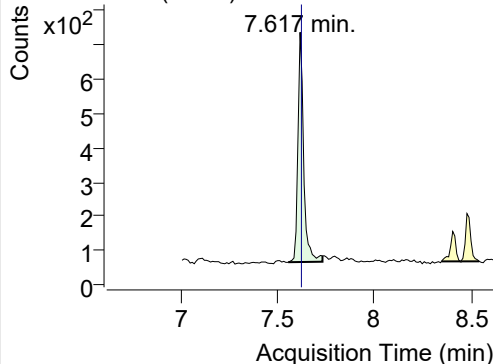


+ SIM (7.524-7.659 min, 13 scans) (**) 230112

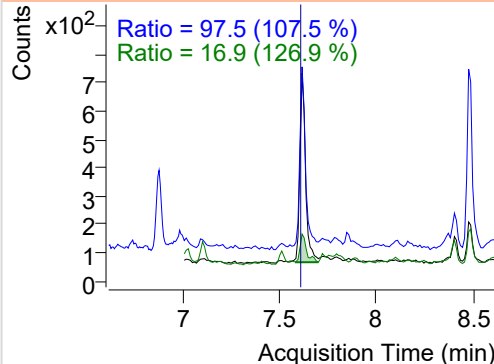


Fluorene

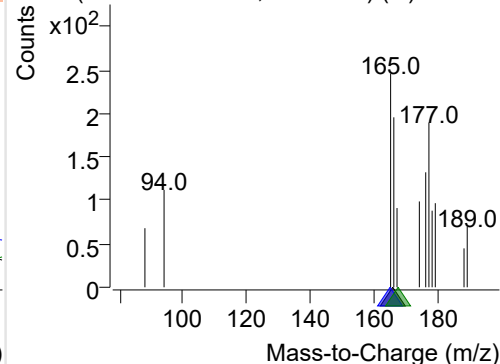
+ Selected Ion (166.0) 230112-PAHs-039.D



166.0, 165.0, 167.0

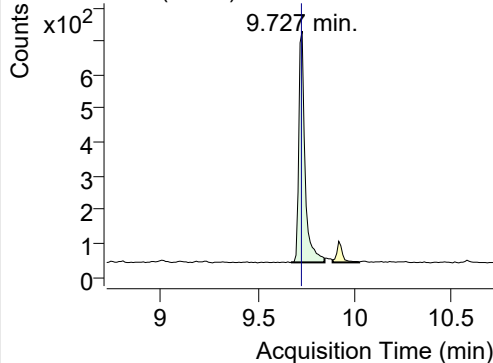


+ SIM (7.555-7.732 min, 17 scans) (**) 230112

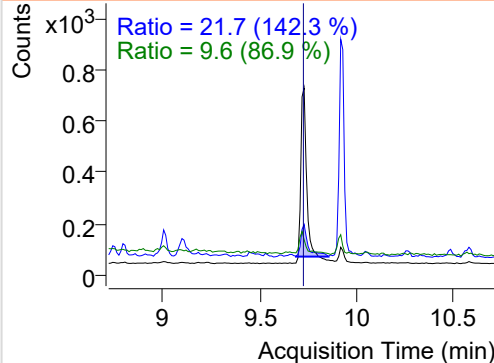


IS-D10-Phenanthrene

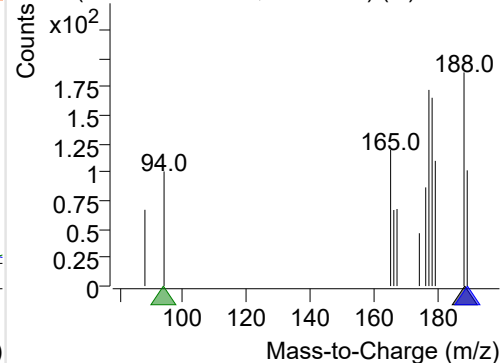
+ Selected Ion (188.0) 230112-PAHs-039.D



188.0, 189.0, 94.0

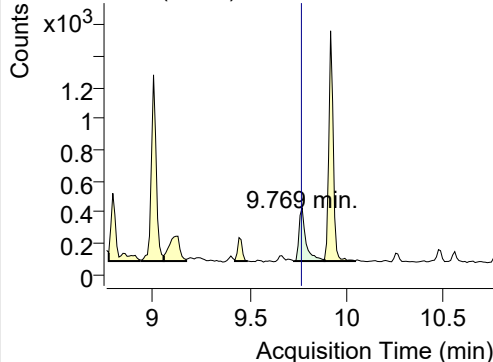


+ SIM (9.670-9.843 min, 17 scans) (**) 230112

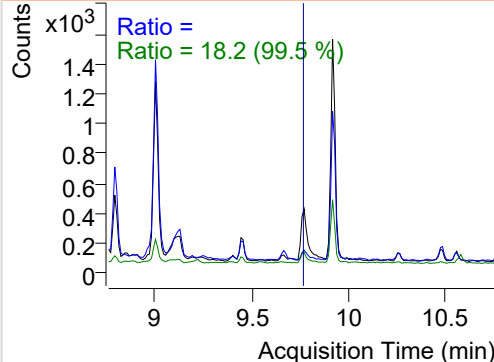


Phenanthrene

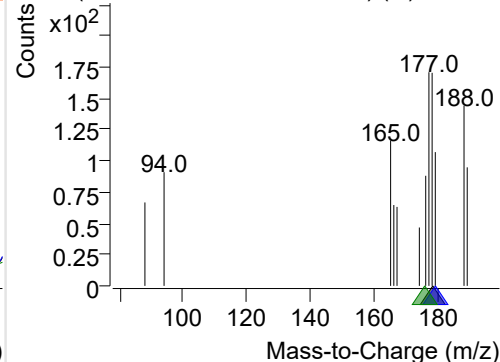
+ Selected Ion (178.0) 230112-PAHs-039.D



178.0, 179.0, 176.0

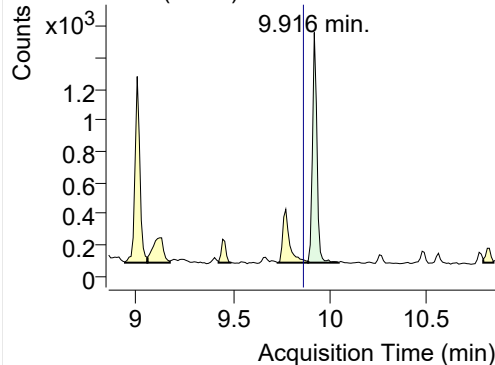


+ SIM (9.727-9.885 min, 16 scans) (**) 230112

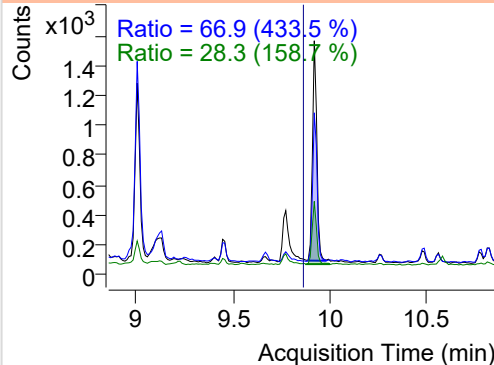


Anthracene

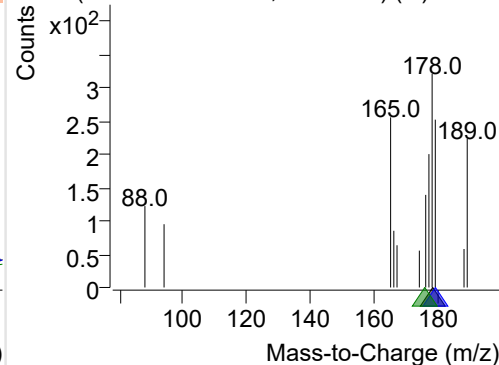
+ Selected Ion (178.0) 230112-PAHs-039.D



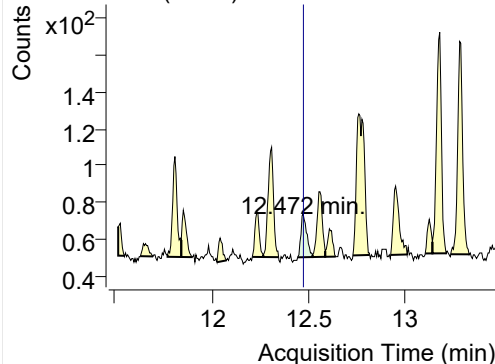
178.0, 179.0, 176.0



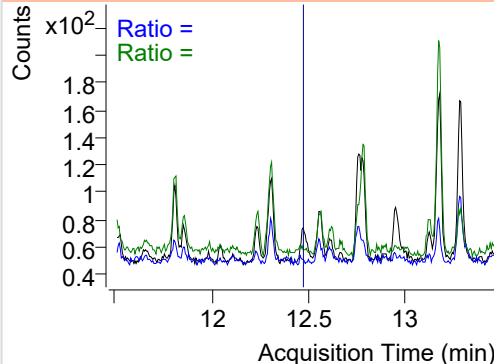
+ SIM (9.885-10.042 min, 16 scans) (**) 23011

**Fluoranthene**

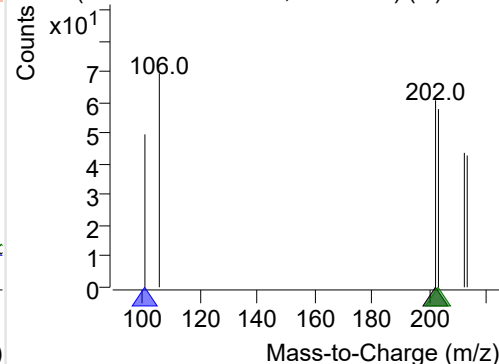
+ Selected Ion (202.0) 230112-PAHs-039.D



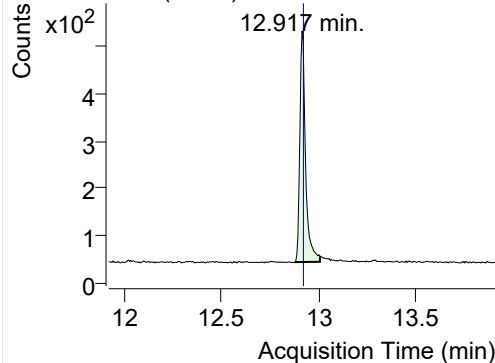
202.0, 101.0, 203.0



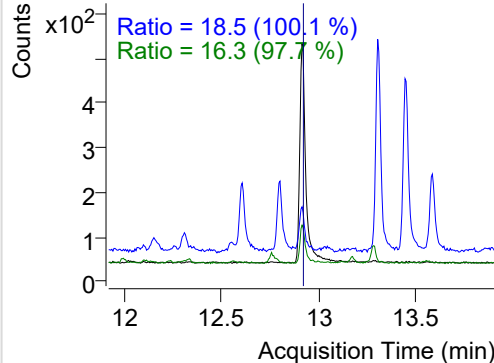
+ SIM (12.444-12.521 min, 15 scans) (**) 2301

**LSS-D10-Pyrene**

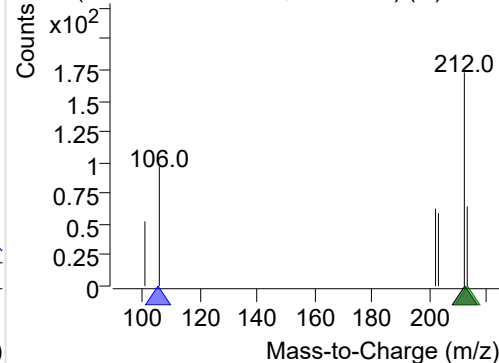
+ Selected Ion (212.0) 230112-PAHs-039.D



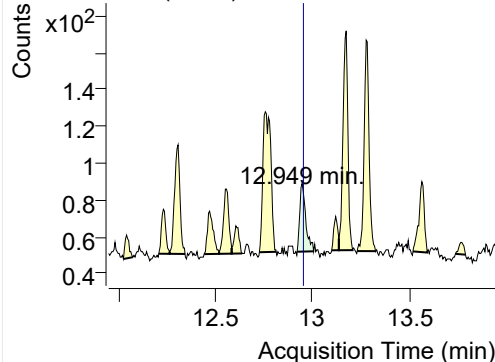
212.0, 106.0, 213.0



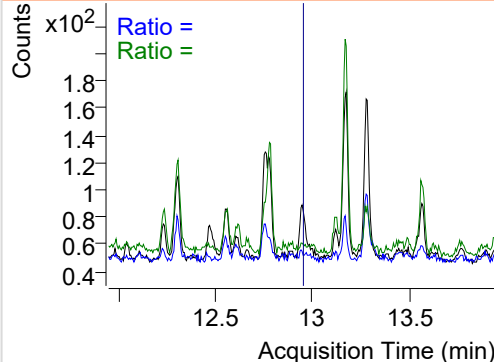
+ SIM (12.880-13.009 min, 24 scans) (**) 2301

**Pyrene**

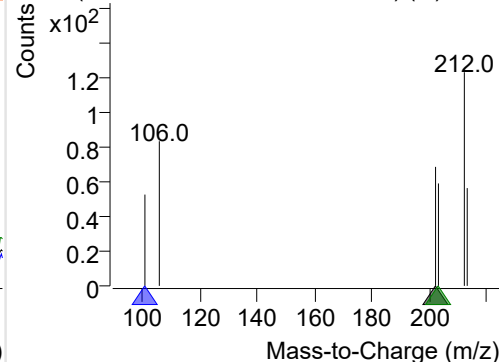
+ Selected Ion (202.0) 230112-PAHs-039.D



202.0, 101.0, 203.0



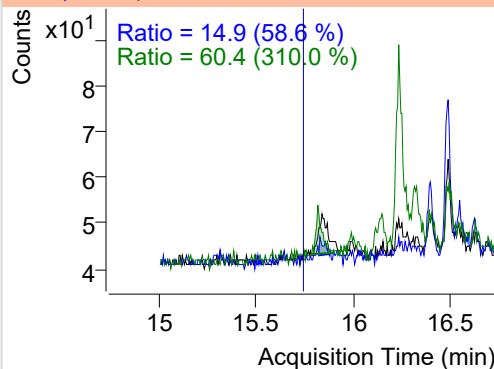
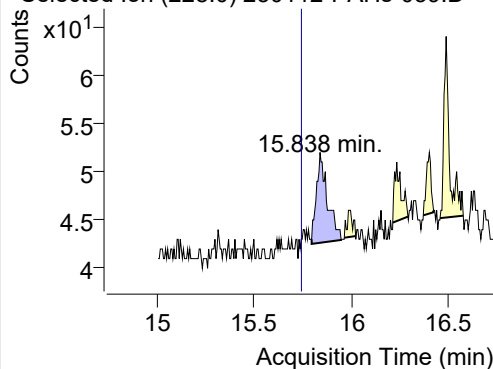
+ SIM (12.924-13.008 min, 15 scans) (**) 2301



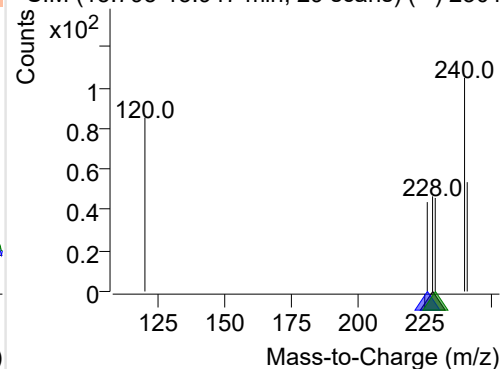
Benz(a)anthracene

+ Selected Ion (228.0) 230112-PAHs-039.D

228.0, 226.0, 229.0

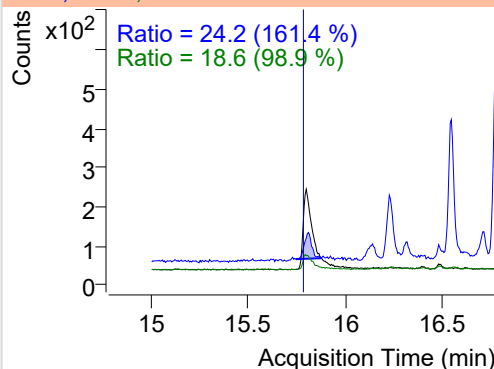
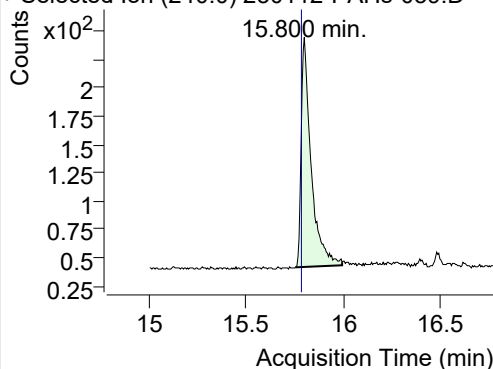


+ SIM (15.795-15.947 min, 29 scans) (**) 2301

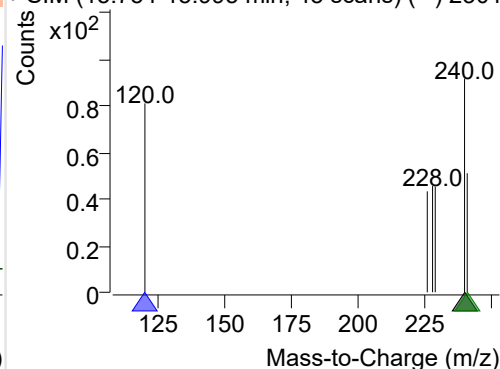
**IS-D12-Chrysene**

+ Selected Ion (240.0) 230112-PAHs-039.D

240.0, 120.0, 241.0

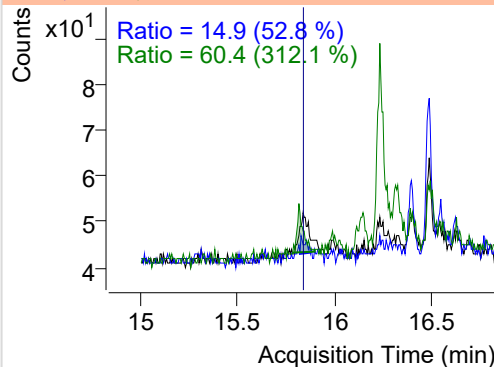
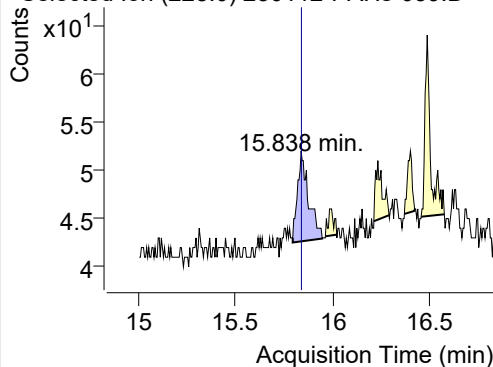


+ SIM (15.754-15.995 min, 45 scans) (**) 2301

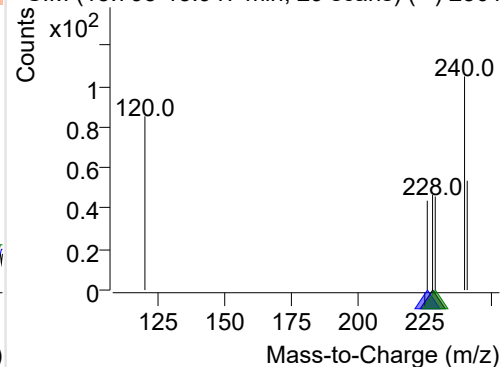
**Chrysene**

+ Selected Ion (228.0) 230112-PAHs-039.D

228.0, 226.0, 229.0

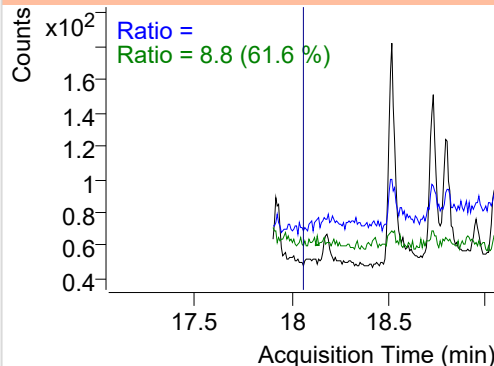
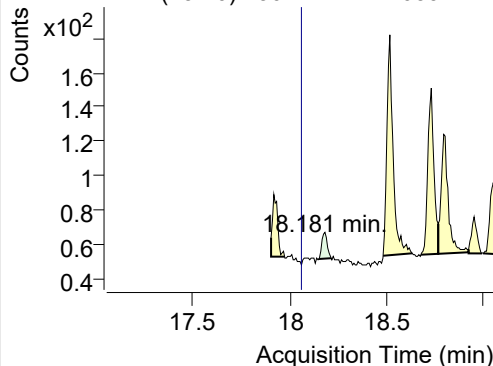


+ SIM (15.795-15.947 min, 29 scans) (**) 2301

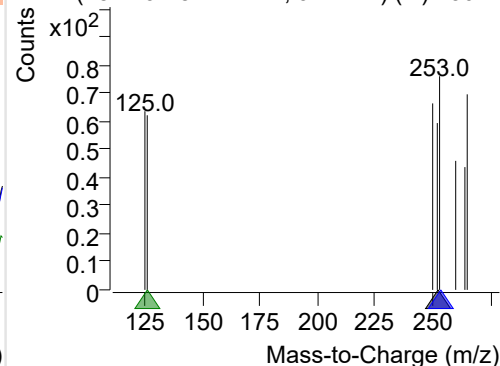
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 230112-PAHs-039.D

252.0, 253.0, 126.0



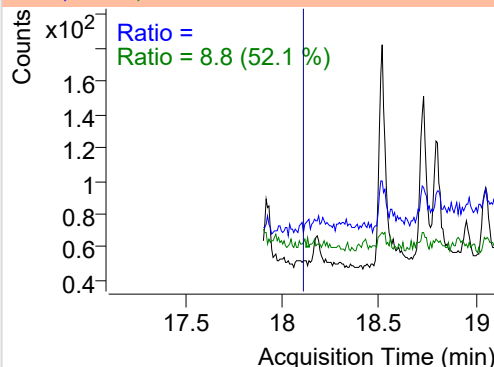
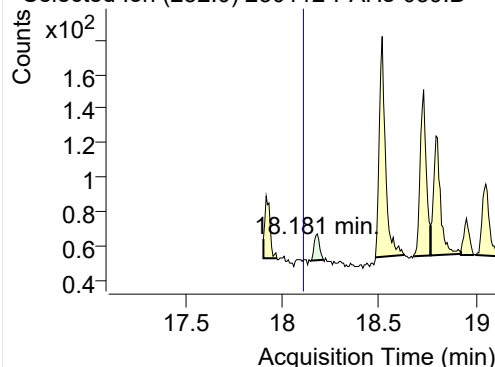
+ SIM (18.149-18.214 min, 9 scans) (**) 23011



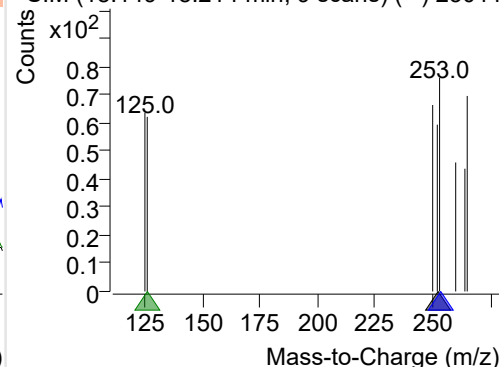
Benzo(k)fluoranthene

+ Selected Ion (252.0) 230112-PAHs-039.D

252.0, 253.0, 126.0

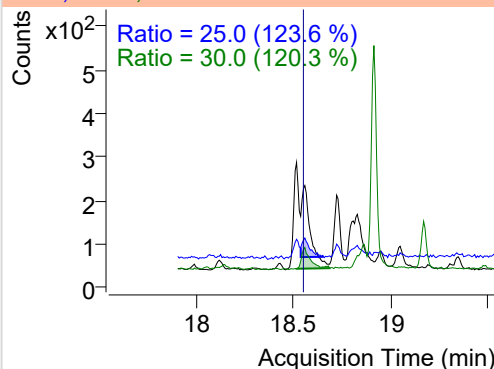
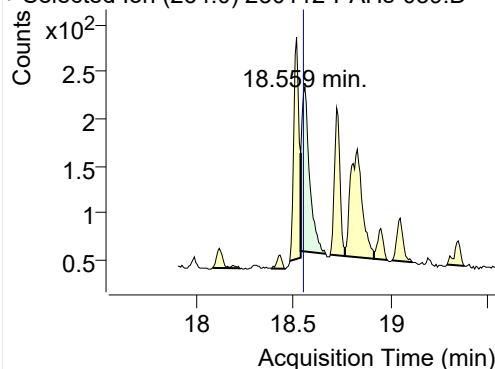


+ SIM (18.149-18.214 min, 9 scans) (**) 23011

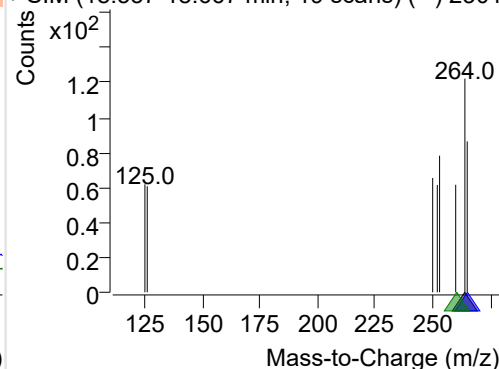
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 230112-PAHs-039.D

264.0, 265.0, 260.0

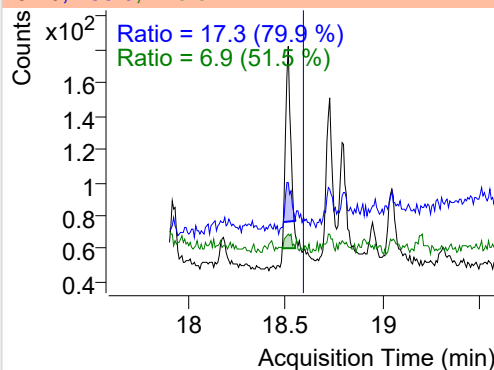
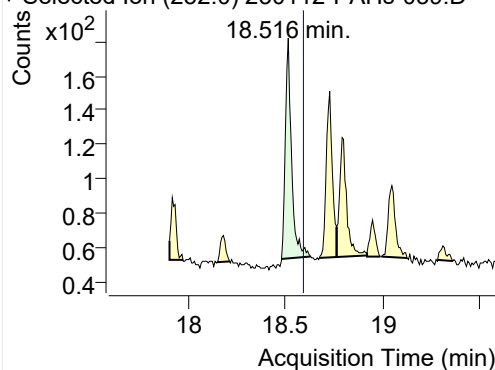


+ SIM (18.537-18.667 min, 19 scans) (**) 23011

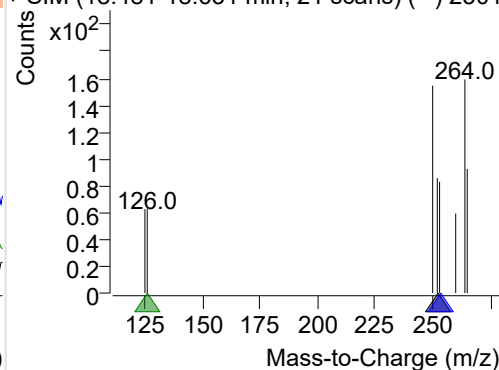
**Benzo(e)pyrene**

+ Selected Ion (252.0) 230112-PAHs-039.D

252.0, 253.0, 126.0

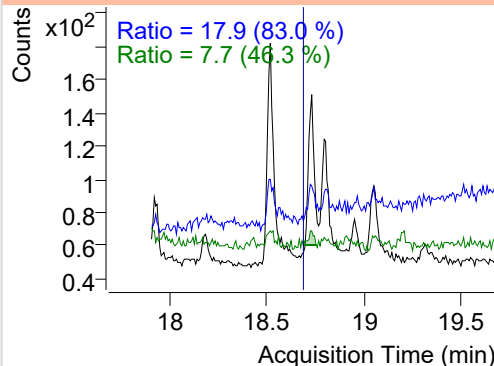
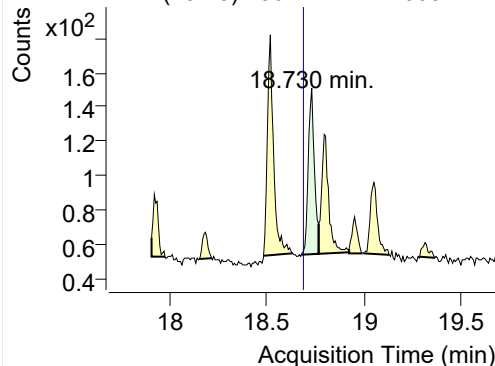


+ SIM (18.481-18.631 min, 21 scans) (**) 23011

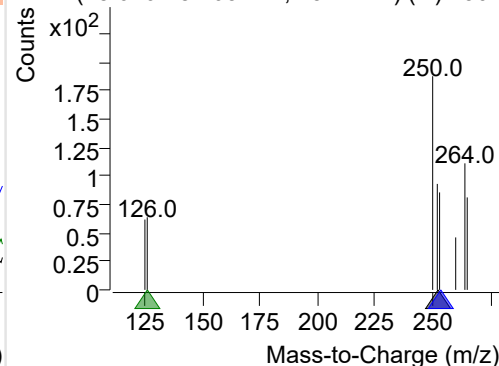
**Benzo(a)pyrene**

+ Selected Ion (252.0) 230112-PAHs-039.D

252.0, 253.0, 126.0



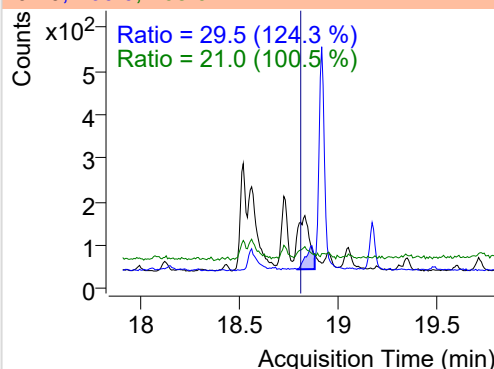
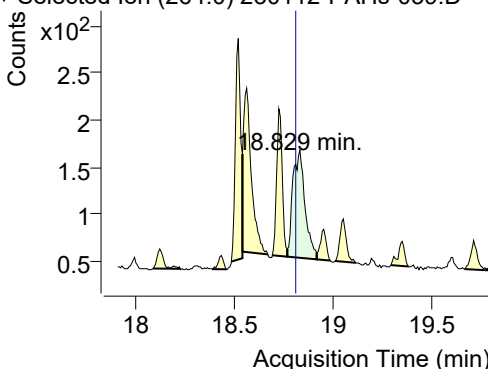
+ SIM (18.676-18.765 min, 13 scans) (**) 23011



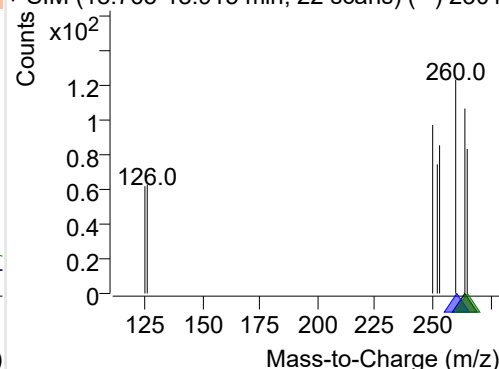
IS-D12-Perylene

+ Selected Ion (264.0) 230112-PAHs-039.D

264.0, 260.0, 265.0



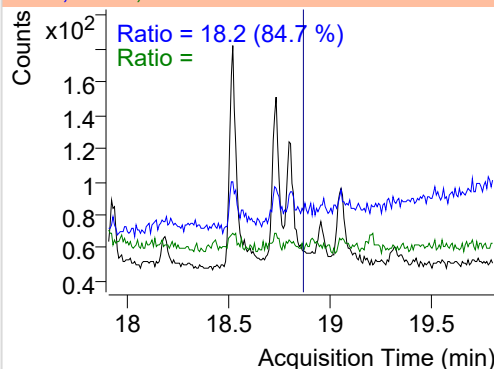
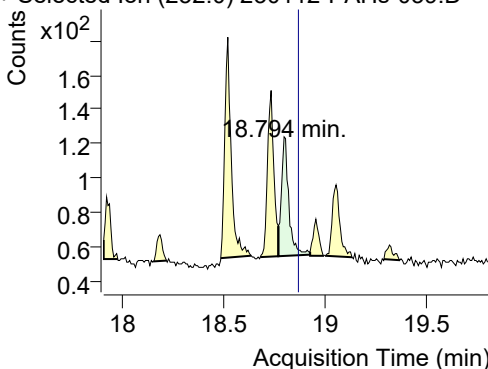
+ SIM (18.765-18.915 min, 22 scans) (**) 2301



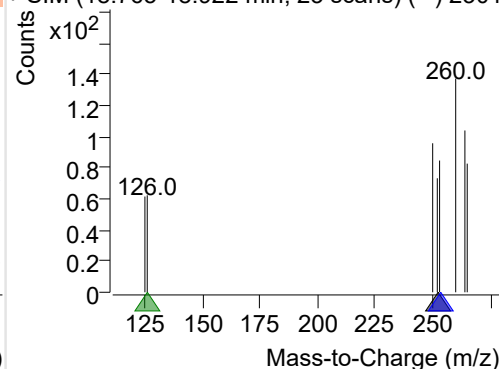
Perylene

+ Selected Ion (252.0) 230112-PAHs-039.D

252.0, 253.0, 126.0



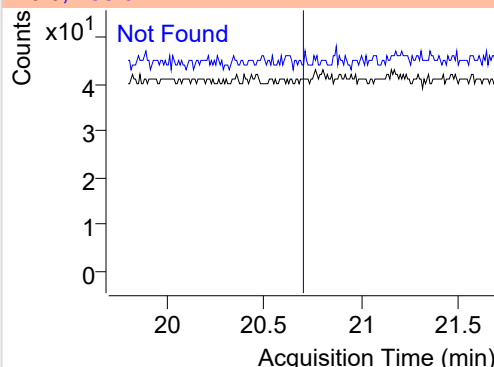
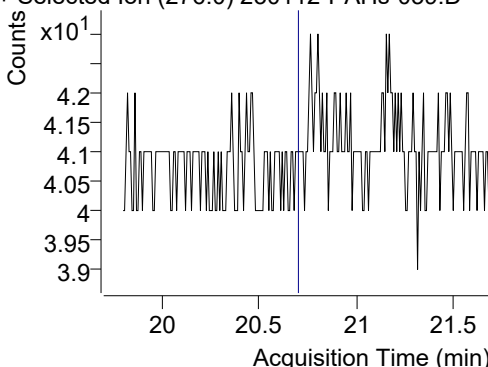
+ SIM (18.765-18.922 min, 23 scans) (**) 2301



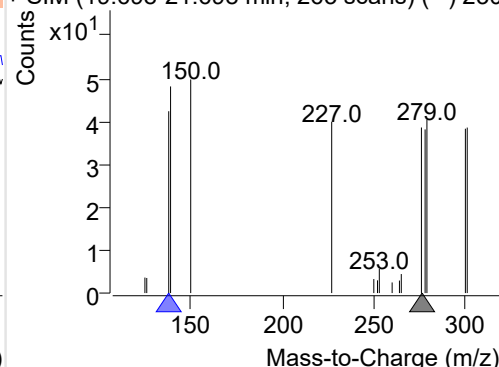
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 230112-PAHs-039.D

276.0, 138.0



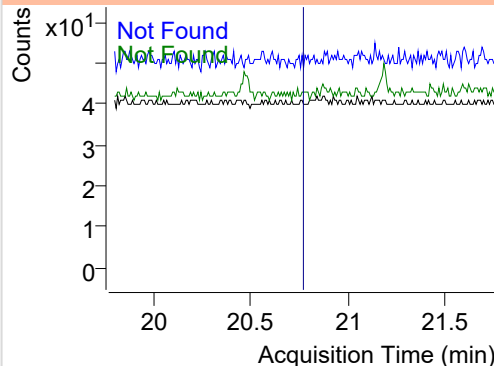
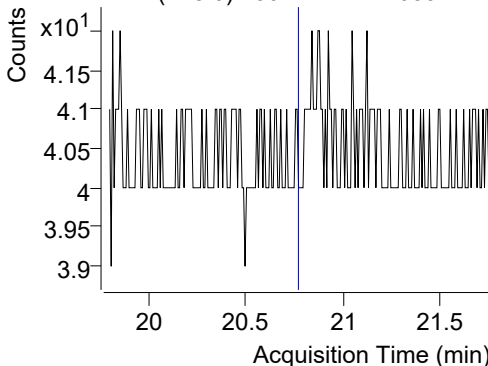
+ SIM (19.698-21.698 min, 263 scans) (**) 230



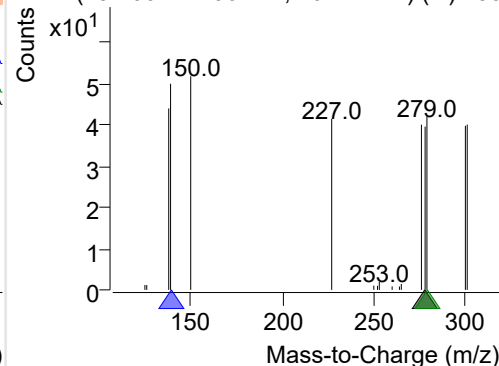
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 230112-PAHs-039.D

278.0, 139.0, 279.0



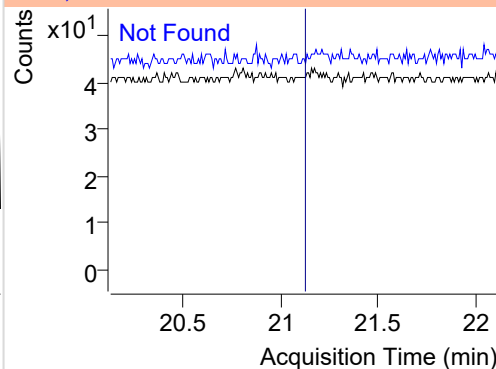
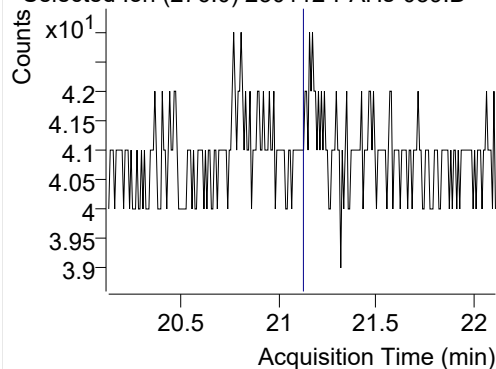
+ SIM (19.766-21.766 min, 262 scans) (**) 230



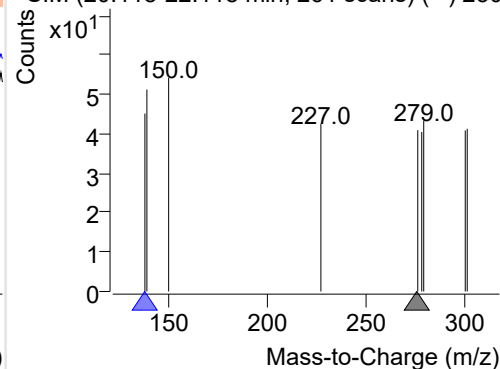
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 230112-PAHs-039.D

276.0, 138.0

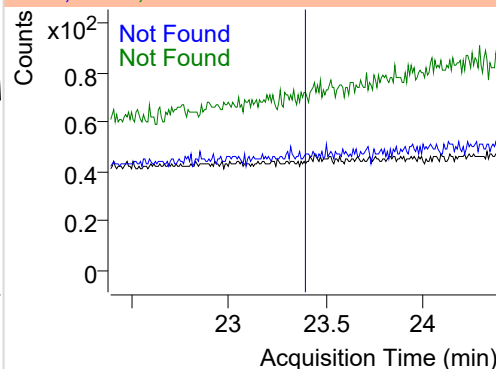
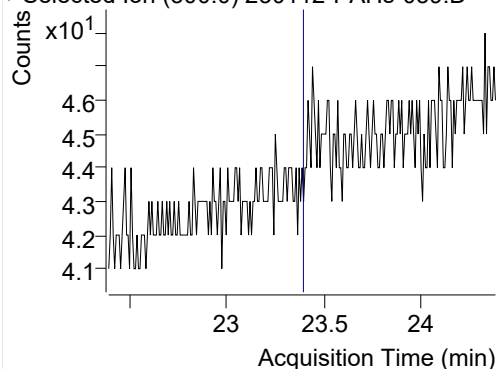


+ SIM (20.118-22.118 min, 261 scans) (**) 230

**Coronene**

+ Selected Ion (300.0) 230112-PAHs-039.D

300.0, 301.0, 150.0



+ SIM (22.385-24.385 min, 261 scans) (**) 230

