

Quantitative Analysis Sample Based Report

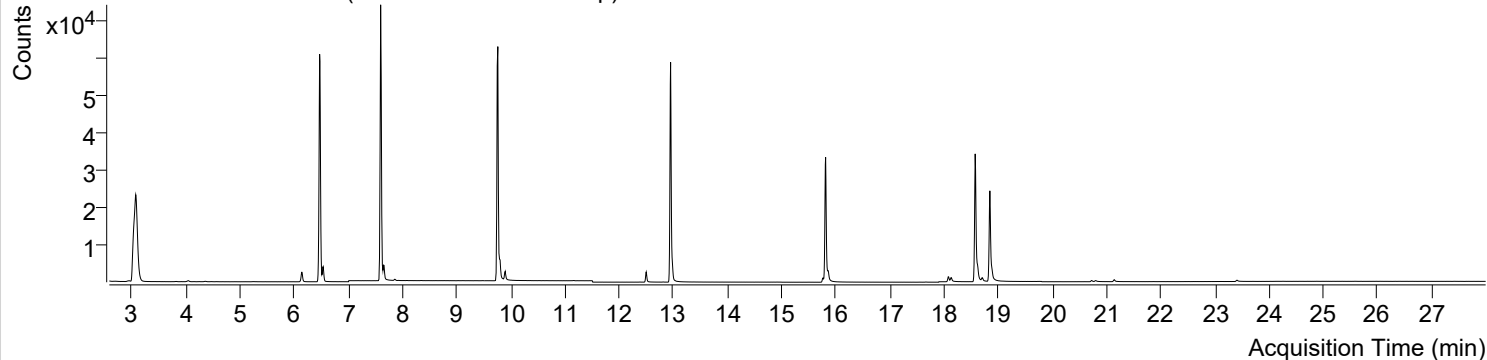


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-07 오후 6:05:05	Data File	221107-PAHs-005.D
Type	Sample	Name	PAHs-19mix-STD-0.05p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

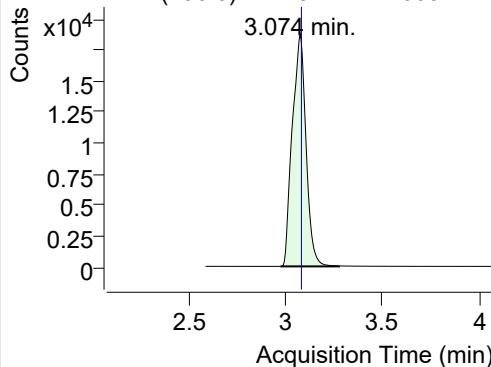
+ TIC SIM 221107-PAHs-005.D (PAHs-19mix-STD-0.05p)



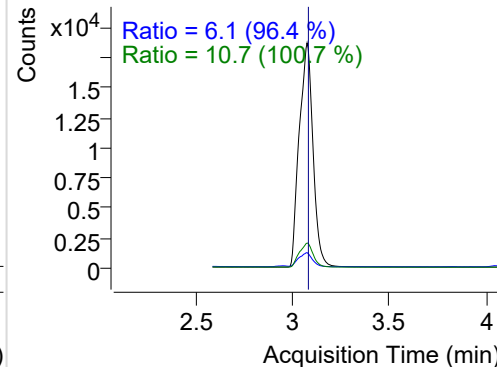
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	91807	18699.48	ND ng/ml	10.7
Naphthalene	3.096	128.0	5956	1204.10	ND ng/ml	13.2
Acenaphthylene	6.138	152.0	3869	1882.21	ND ng/ml	19.8
IS-D10-Acenaphthene	6.469	164.0	52401	28302.63	ND ng/ml	99.0
Acenaphthene	6.534	154.0	2519	1336.51	ND ng/ml	108.1
LSS-D10-Fluorene	7.596	176.0	54393	32280.95	ND ng/ml	95.3
Fluorene	7.659	166.0	3076	1654.53	ND ng/ml	93.1
IS-D10-Phenanthrene	9.759	188.0	86434	50662.10	ND ng/ml	15.0
Phenanthrene	9.801	178.0	4599	2683.95	ND ng/ml	19.6
Anthracene	9.896	178.0	2723	1497.15	ND ng/ml	21.1
Fluoranthene	12.499	202.0	3585	2101.54	ND ng/ml	16.8
LSS-D10-Pyrene	12.949	212.0	68041	43367.17	ND ng/ml	18.3
Pyrene	12.982	202.0	4720	2608.32	ND ng/ml	18.0
Benz(a)anthracene	15.762	228.0	1645	756.57	ND ng/ml	24.4
IS-D12-Chrysene	15.811	240.0	45075	24851.50	ND ng/ml	18.9
Chrysene	15.860	228.0	2649	1306.10	ND ng/ml	30.3
Benzo(b)fluoranthene	18.082	252.0	1356	752.82	ND ng/ml	22.2
Benzo(k)fluoranthene	18.132	252.0	1362	604.69	ND ng/ml	24.7
SS-D12-Benzo(e)pyrene	18.573	264.0	44134	22684.03	ND ng/ml	26.9
Benzo(e)pyrene	18.616	252.0	2754	1300.70	ND ng/ml	23.1
Benzo(a)pyrene	18.701	252.0	973	456.91	ND ng/ml	21.1
IS-D12-Perylene	18.844	264.0	31378	16236.00	ND ng/ml	25.0
Perylene	18.879	252.0	1804	854.50	ND ng/ml	24.1
Indeno(1,2,3-c,d)pyrene	20.721	276.0	539	246.01	ND ng/ml	21.9
Dibenz(a,h)anthracene	20.797	278.0	455	144.09	ND ng/ml	23.5
Benzo(g,h,i)perylene	21.141	276.0	994	418.74	ND ng/ml	22.5
Coronene	23.409	300.0	712	222.10	ND ng/ml	26.3

IS-D8-Naphthalene

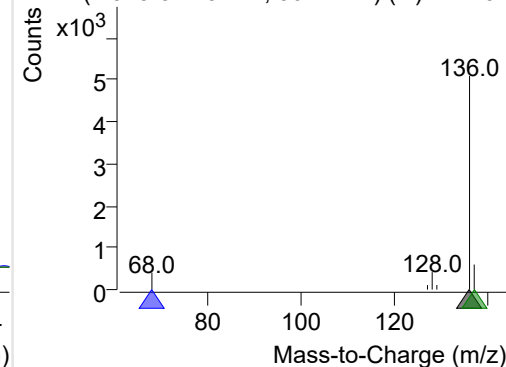
+ Selected Ion (136.0) 221107-PAHs-005.D



136.0, 68.0, 137.0

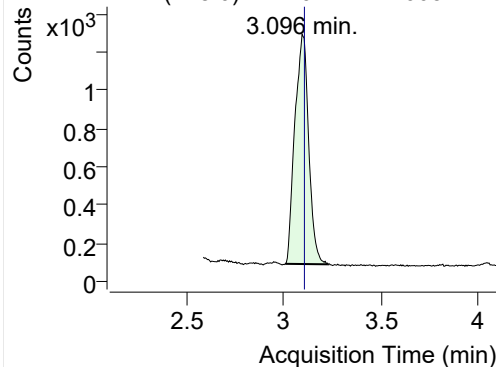


+ SIM (2.973-3.275 min, 56 scans) (**) 221107

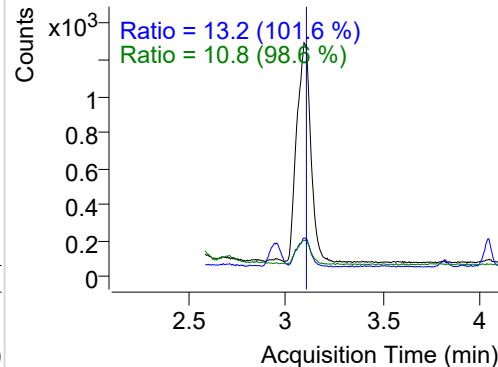


Naphthalene

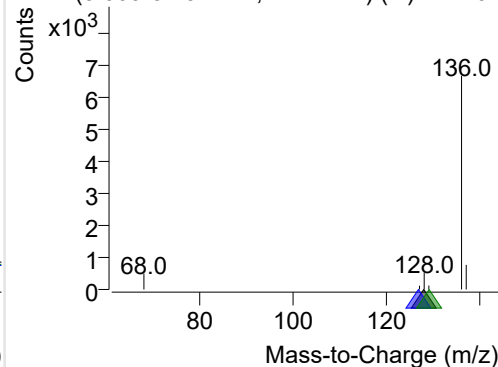
+ Selected Ion (128.0) 221107-PAHs-005.D



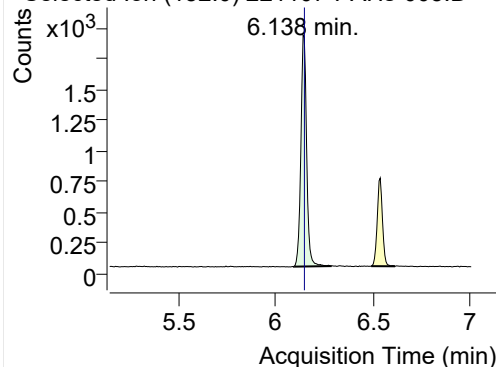
128.0, 127.0, 129.0



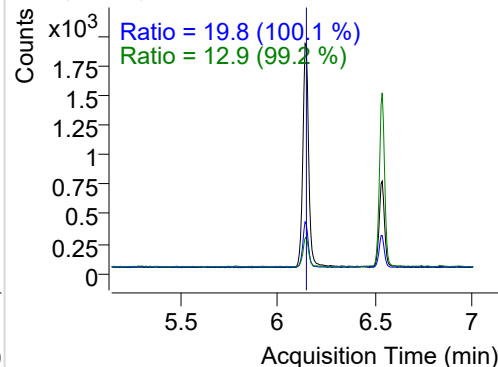
+ SIM (3.009-3.231 min, 42 scans) (**) 221107

**Acenaphthylene**

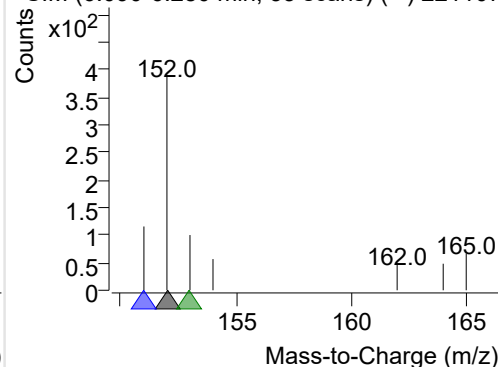
+ Selected Ion (152.0) 221107-PAHs-005.D



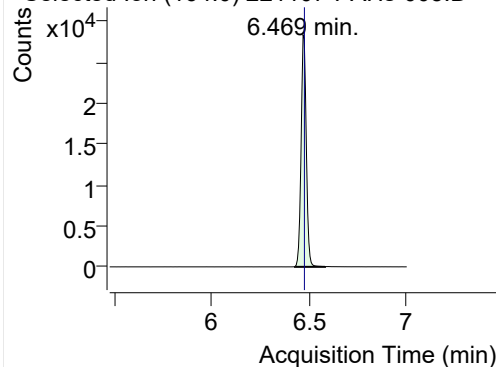
152.0, 151.0, 153.0



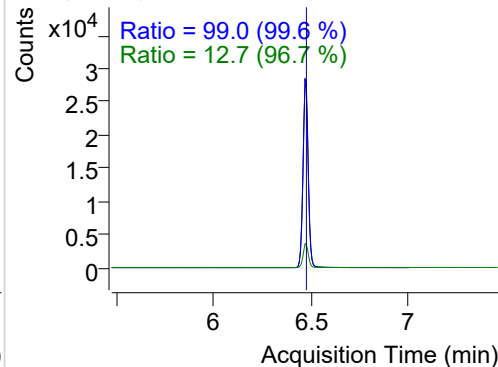
+ SIM (6.090-6.280 min, 33 scans) (**) 221107

**IS-D10-Acenaphthene**

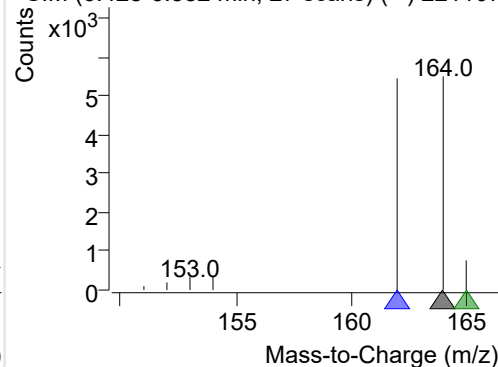
+ Selected Ion (164.0) 221107-PAHs-005.D



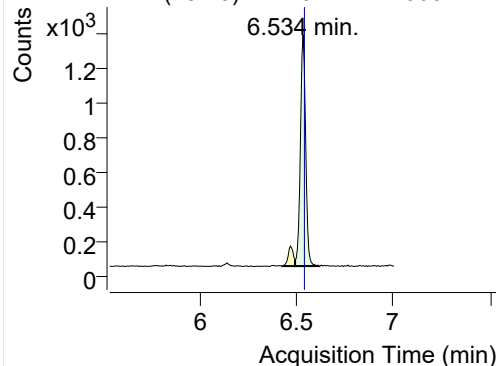
164.0, 162.0, 165.0



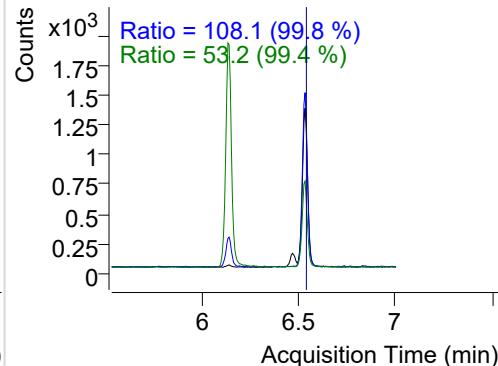
+ SIM (6.428-6.582 min, 27 scans) (**) 221107

**Acenaphthene**

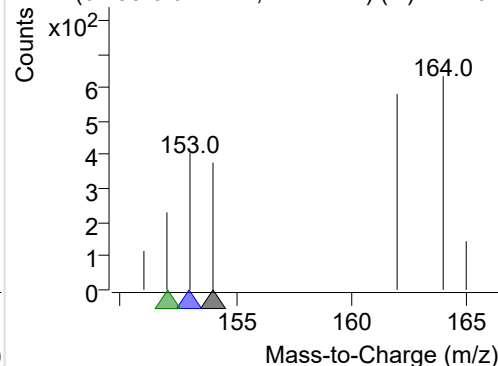
+ Selected Ion (154.0) 221107-PAHs-005.D



154.0, 153.0, 152.0

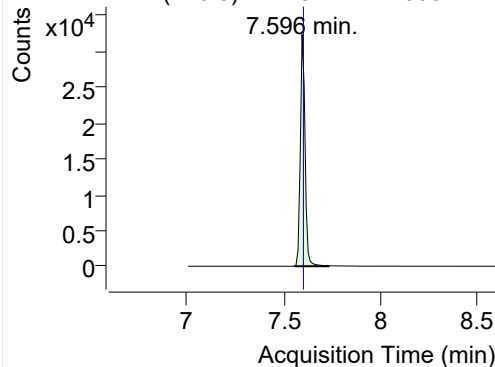


+ SIM (6.493-6.617 min, 22 scans) (**) 221107

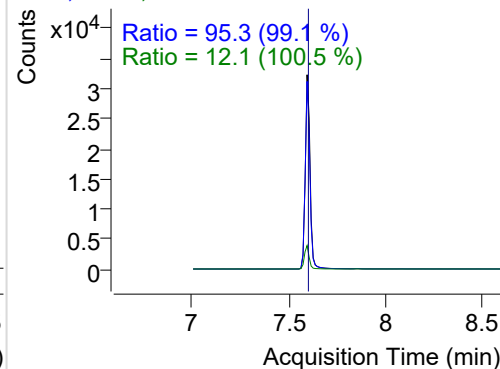


LSS-D10-Fluorene

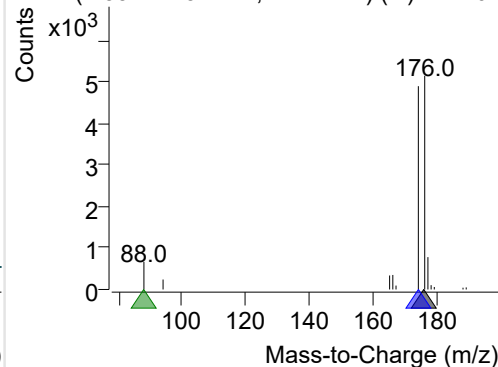
+ Selected Ion (176.0) 221107-PAHs-005.D



176.0, 174.0, 88.0

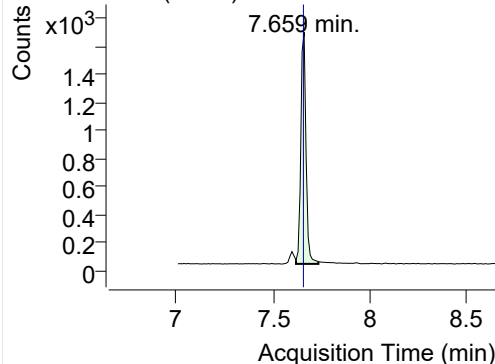


+ SIM (7.554-7.732 min, 17 scans) (**) 221107

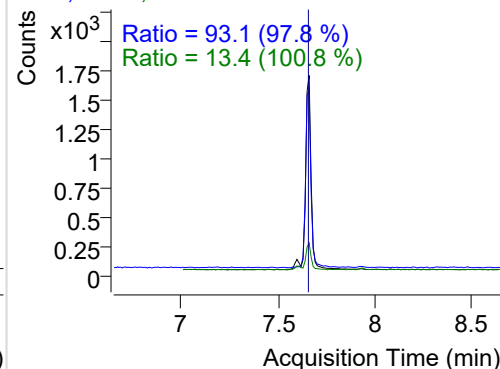


Fluorene

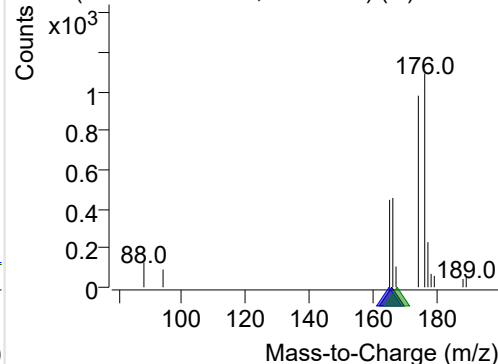
+ Selected Ion (166.0) 221107-PAHs-005.D



166.0, 165.0, 167.0

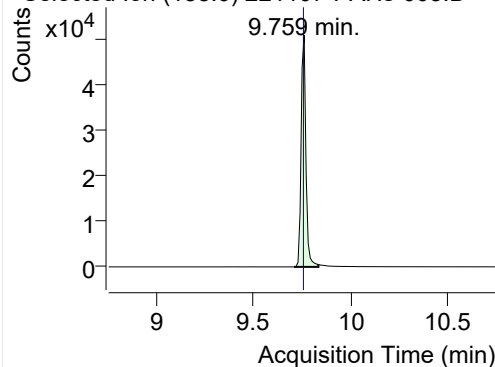


+ SIM (7.617-7.732 min, 12 scans) (**) 221107

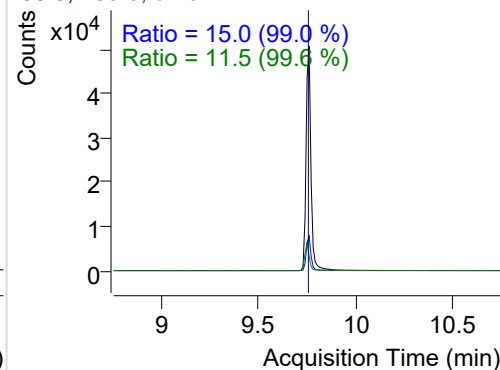


IS-D10-Phenanthrene

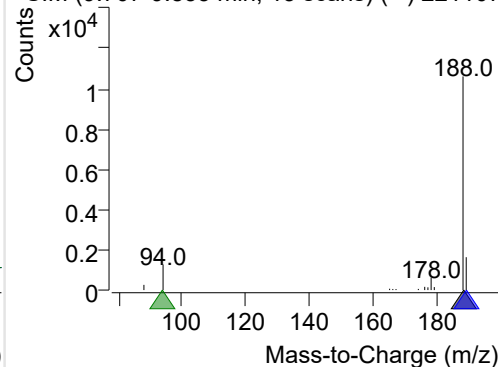
+ Selected Ion (188.0) 221107-PAHs-005.D



188.0, 189.0, 94.0

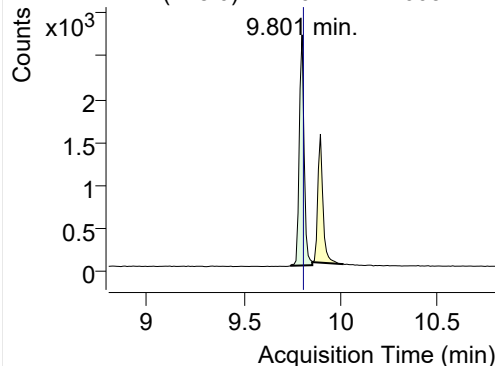


+ SIM (9.707-9.833 min, 13 scans) (**) 221107

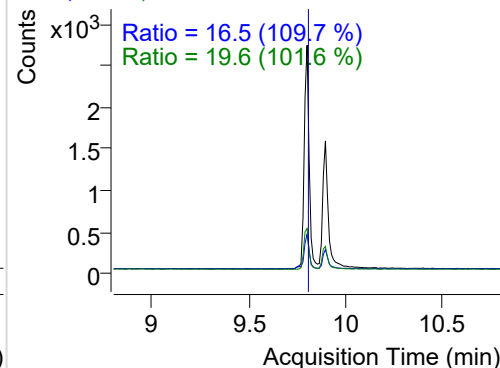


Phenanthrene

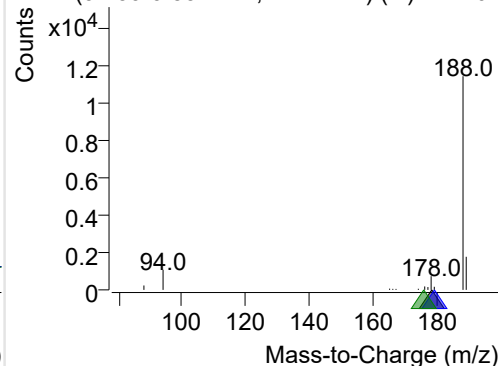
+ Selected Ion (178.0) 221107-PAHs-005.D



178.0, 179.0, 176.0

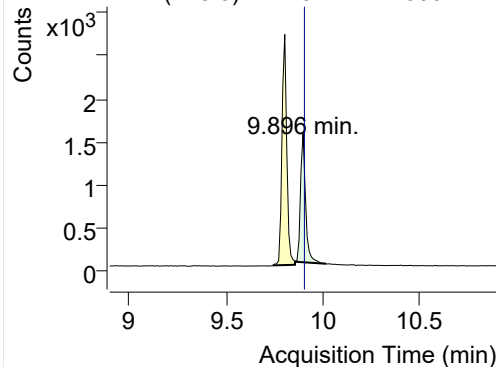


+ SIM (9.739-9.854 min, 11 scans) (**) 221107

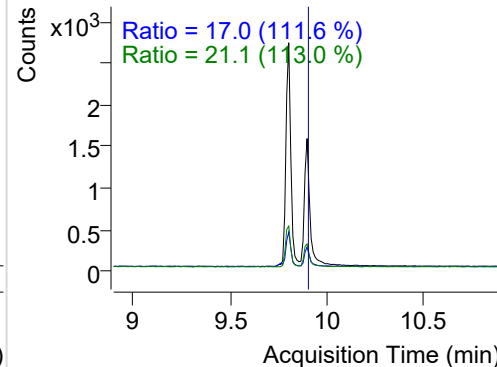


Anthracene

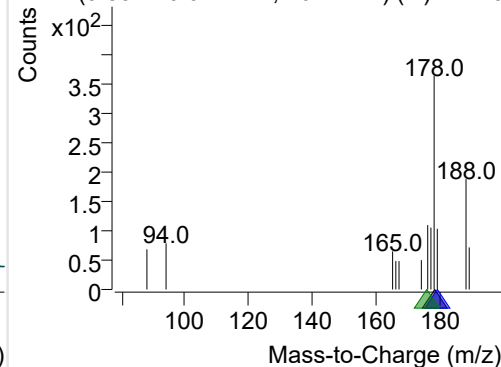
+ Selected Ion (178.0) 221107-PAHs-005.D



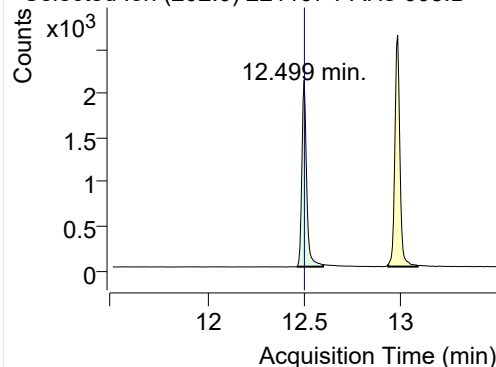
178.0, 179.0, 176.0



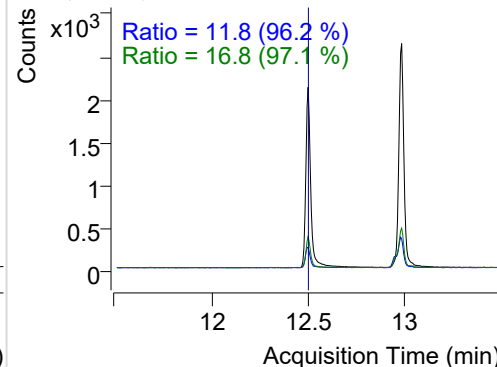
+ SIM (9.854-10.014 min, 16 scans) (**) 22110

**Fluoranthene**

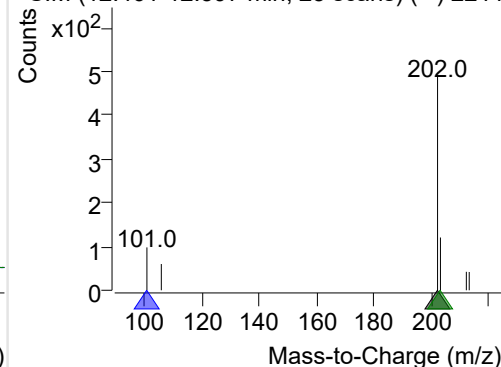
+ Selected Ion (202.0) 221107-PAHs-005.D



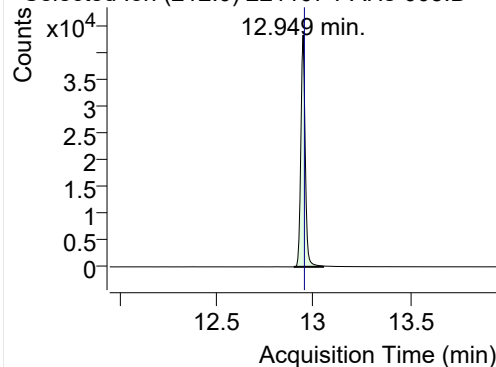
202.0, 101.0, 203.0



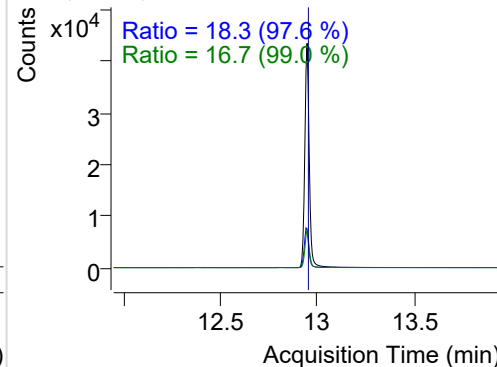
+ SIM (12.461-12.597 min, 25 scans) (**) 2211

**LSS-D10-Pyrene**

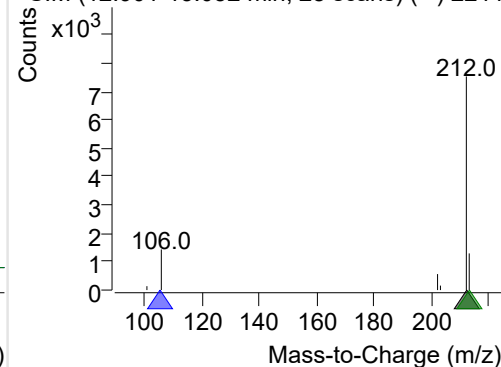
+ Selected Ion (212.0) 221107-PAHs-005.D



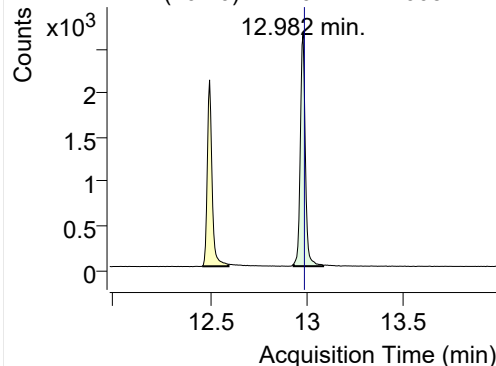
212.0, 106.0, 213.0



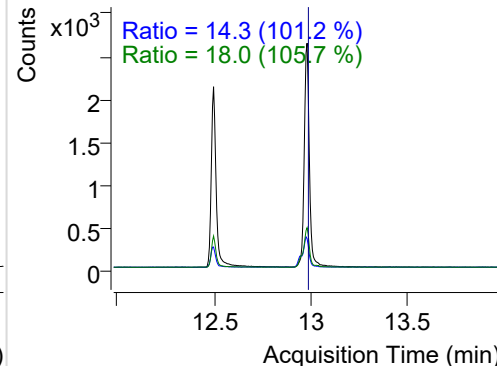
+ SIM (12.901-13.052 min, 28 scans) (**) 2211

**Pyrene**

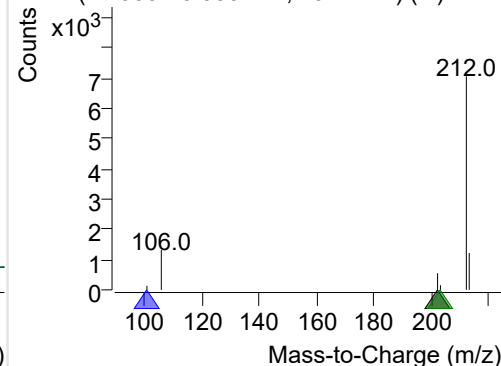
+ Selected Ion (202.0) 221107-PAHs-005.D



202.0, 101.0, 203.0

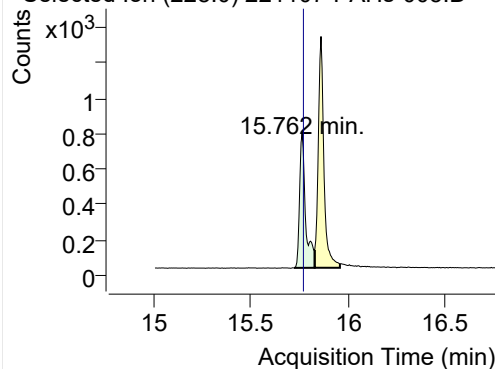


+ SIM (12.933-13.085 min, 29 scans) (**) 2211

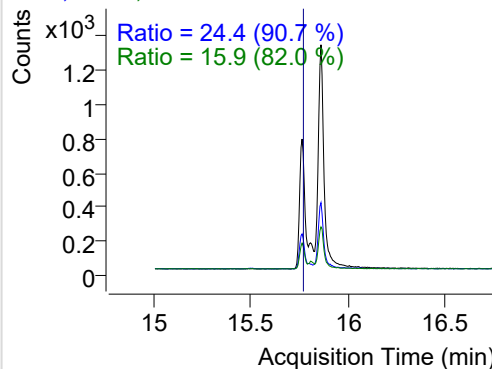


Benz(a)anthracene

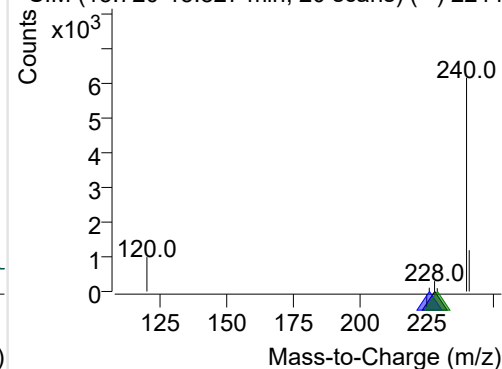
+ Selected Ion (228.0) 221107-PAHs-005.D



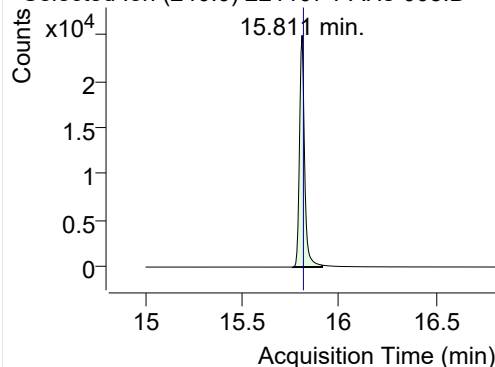
228.0, 226.0, 229.0



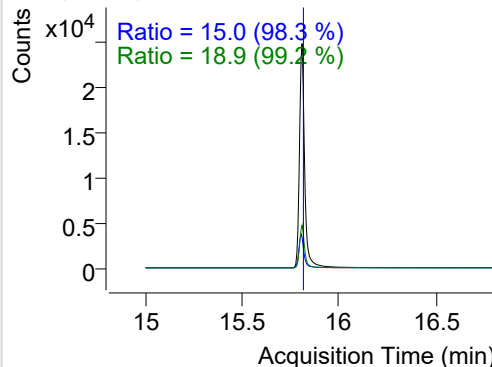
+ SIM (15.720-15.827 min, 20 scans) (**) 2211

**IS-D12-Chrysene**

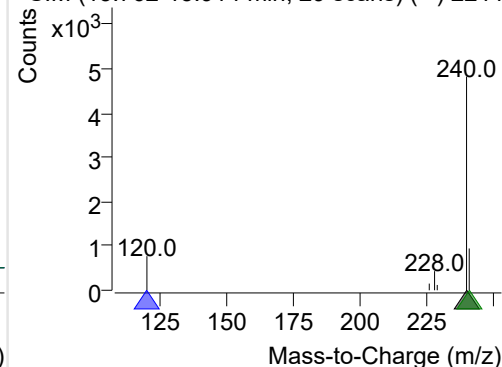
+ Selected Ion (240.0) 221107-PAHs-005.D



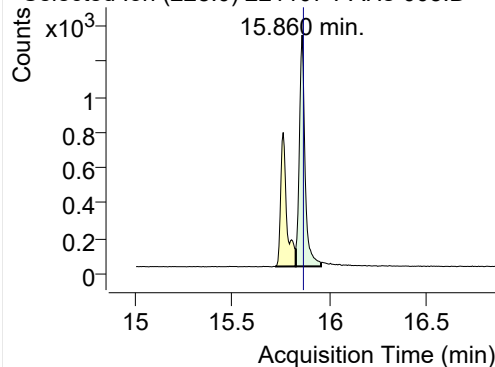
240.0, 120.0, 241.0



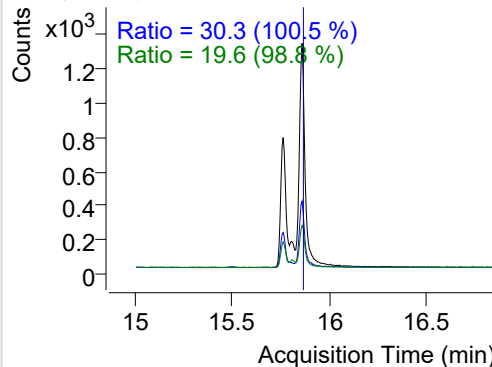
+ SIM (15.762-15.914 min, 29 scans) (**) 2211

**Chrysene**

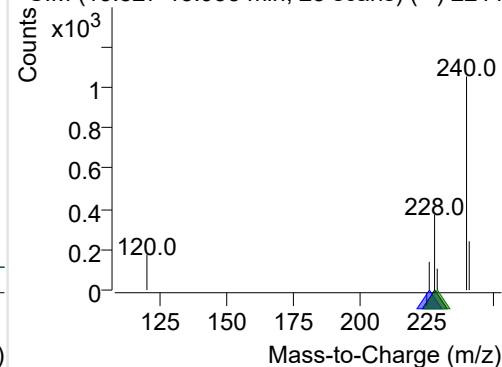
+ Selected Ion (228.0) 221107-PAHs-005.D



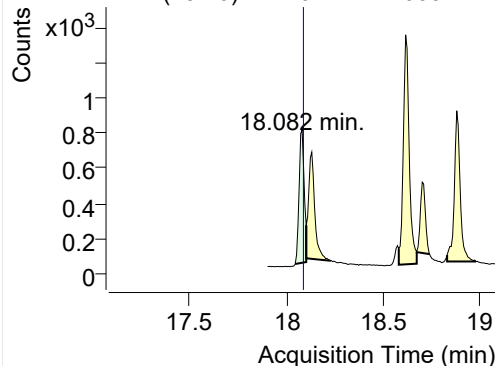
228.0, 226.0, 229.0



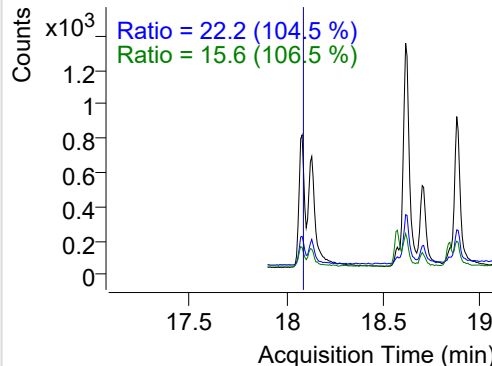
+ SIM (15.827-15.958 min, 25 scans) (**) 2211

**Benzo(b)fluoranthene**

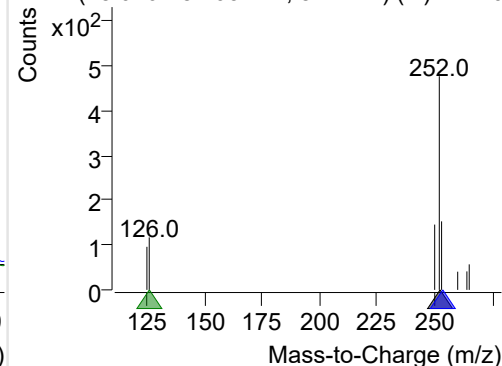
+ Selected Ion (252.0) 221107-PAHs-005.D



252.0, 253.0, 126.0

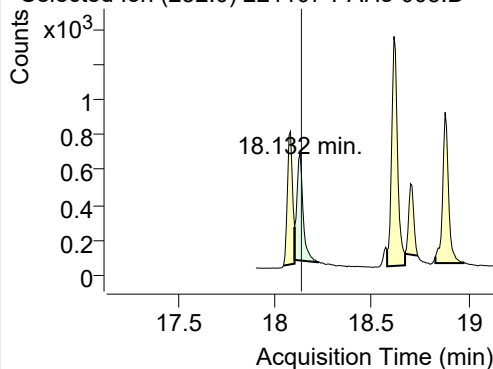


+ SIM (18.046-18.103 min, 8 scans) (**) 22110

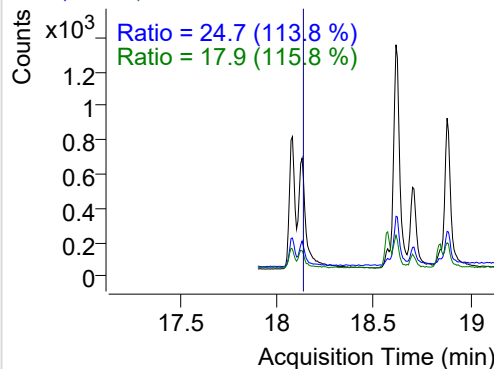


Benzo(k)fluoranthene

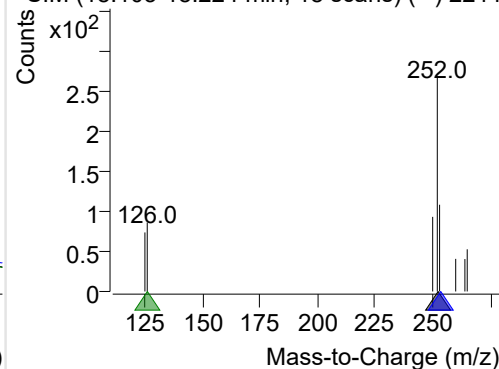
+ Selected Ion (252.0) 221107-PAHs-005.D



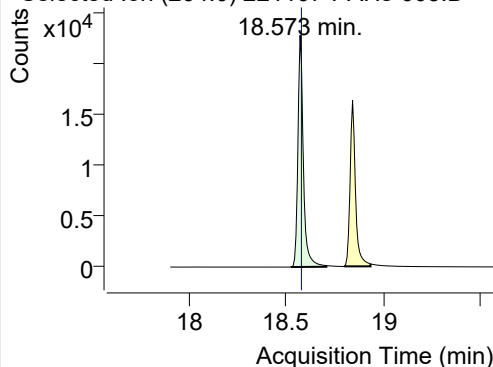
252.0, 253.0, 126.0



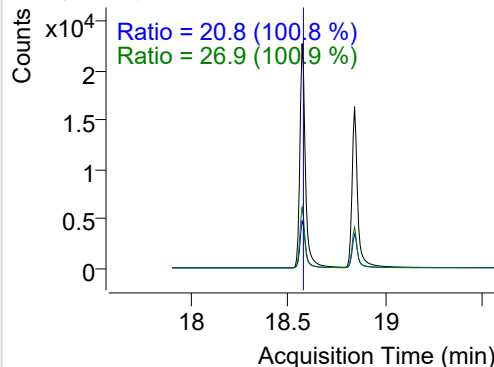
+ SIM (18.103-18.224 min, 18 scans) (**) 2211

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

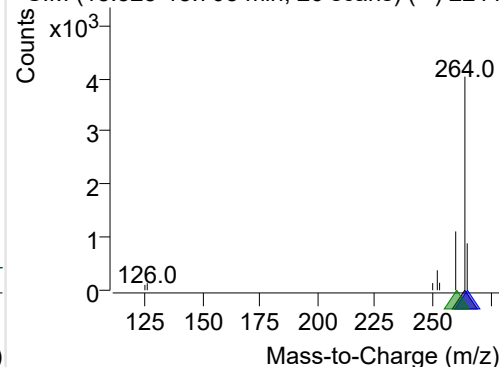
+ Selected Ion (264.0) 221107-PAHs-005.D



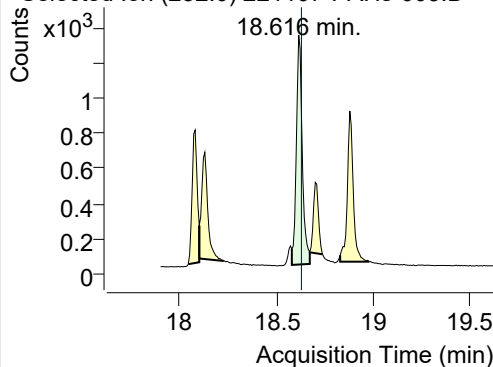
264.0, 265.0, 260.0



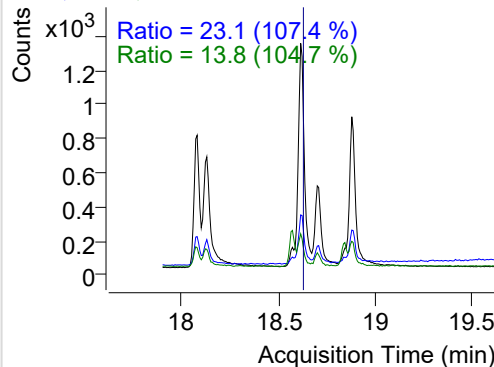
+ SIM (18.525-18.708 min, 26 scans) (**) 2211

**Benzo(e)pyrene**

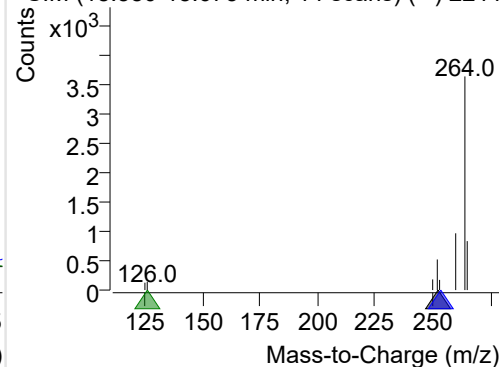
+ Selected Ion (252.0) 221107-PAHs-005.D



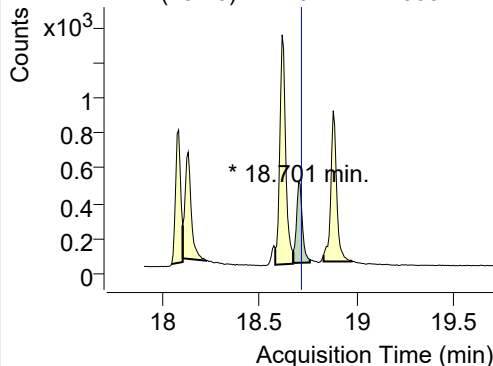
252.0, 253.0, 126.0



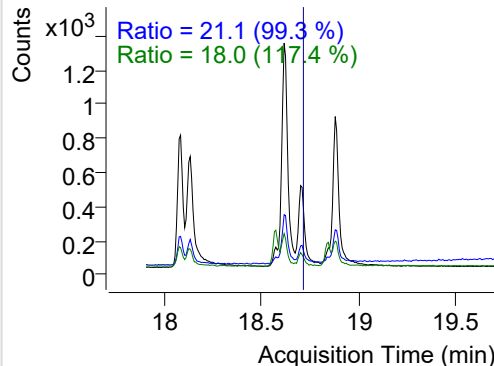
+ SIM (18.580-18.673 min, 14 scans) (**) 2211

**Benzo(a)pyrene**

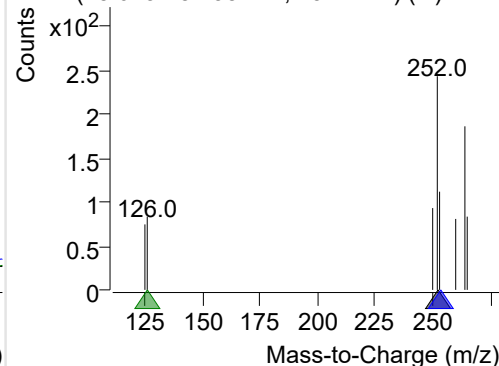
+ Selected Ion (252.0) 221107-PAHs-005.D



252.0, 253.0, 126.0

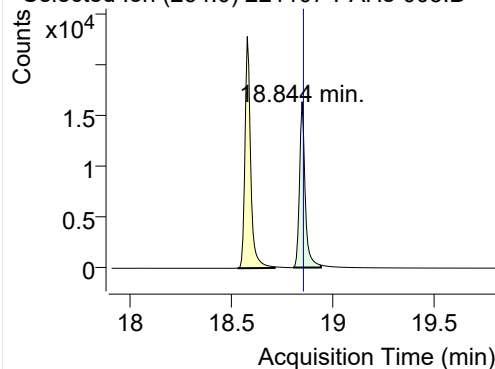


+ SIM (18.673-18.758 min, 13 scans) (**) 2211

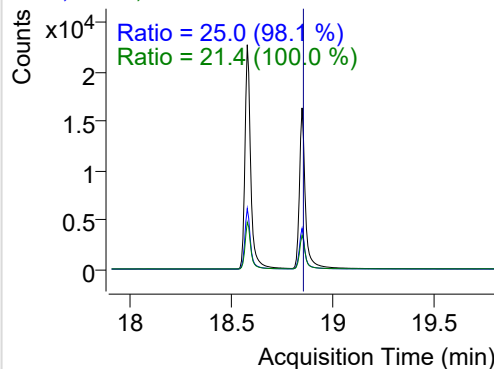


IS-D12-Perylene

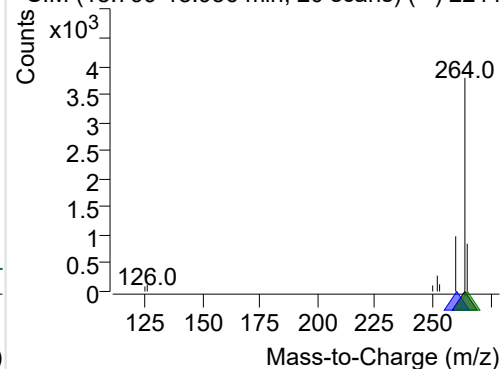
+ Selected Ion (264.0) 221107-PAHs-005.D



264.0, 260.0, 265.0

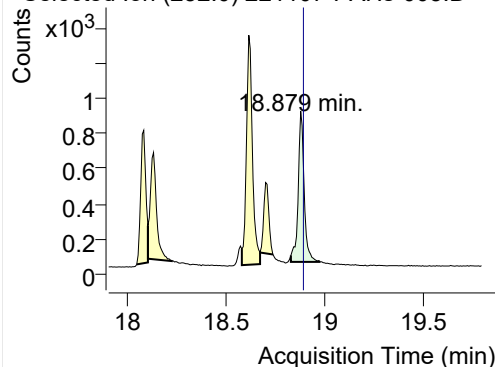


+ SIM (18.799-18.936 min, 20 scans) (**) 2211

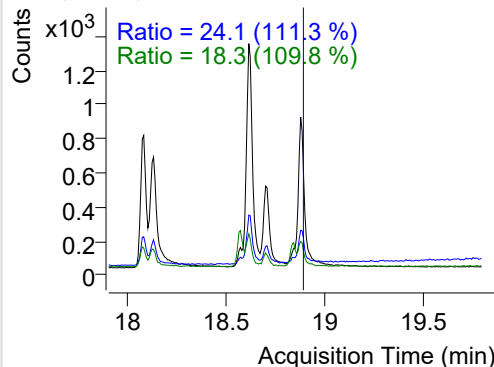


Perylene

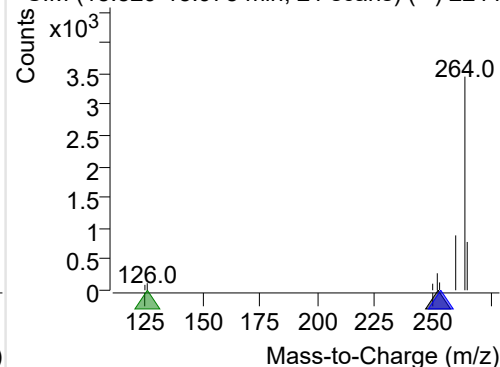
+ Selected Ion (252.0) 221107-PAHs-005.D



252.0, 253.0, 126.0

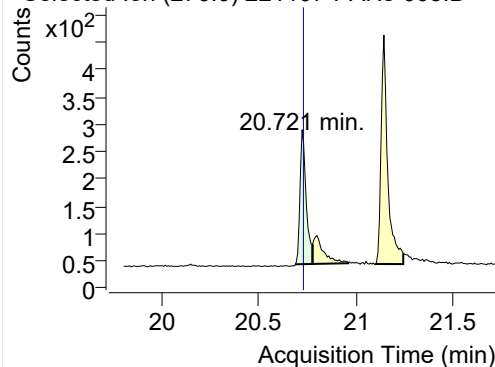


+ SIM (18.829-18.978 min, 21 scans) (**) 2211

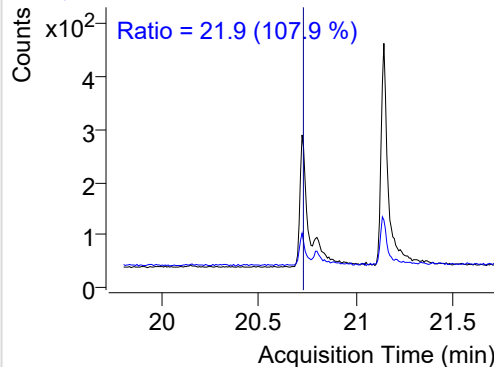


Indeno(1,2,3-c,d)pyrene

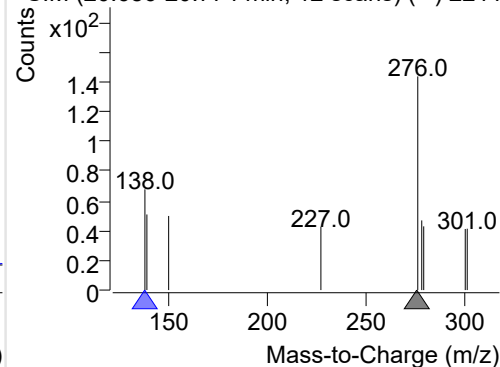
+ Selected Ion (276.0) 221107-PAHs-005.D



276.0, 138.0

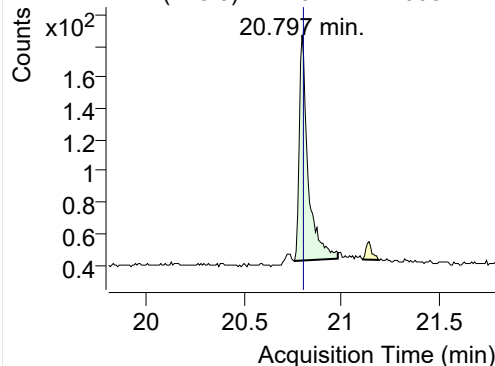


+ SIM (20.686-20.774 min, 12 scans) (**) 2211

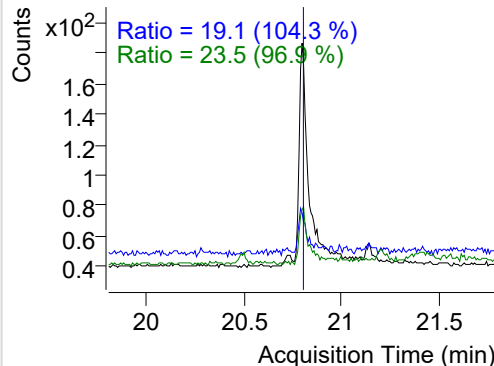


Dibenz(a,h)anthracene

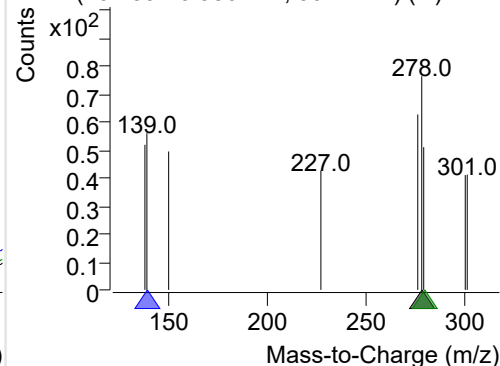
+ Selected Ion (278.0) 221107-PAHs-005.D



278.0, 139.0, 279.0

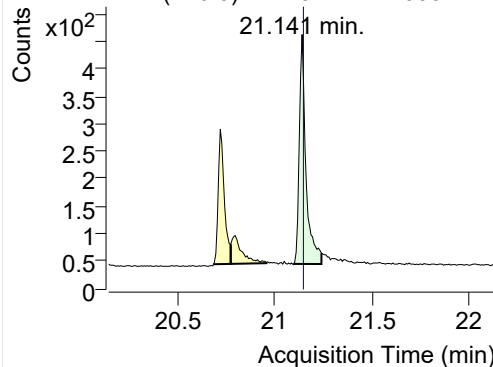


+ SIM (20.759-20.980 min, 30 scans) (**) 2211

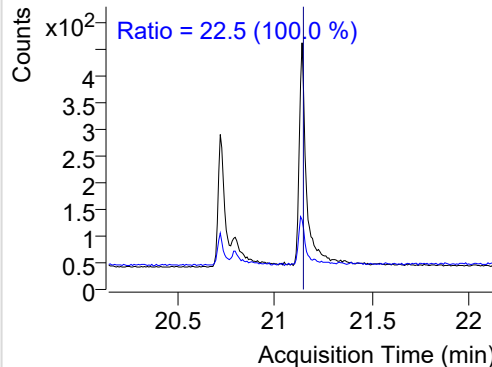


Benzo(g,h,i)perylene

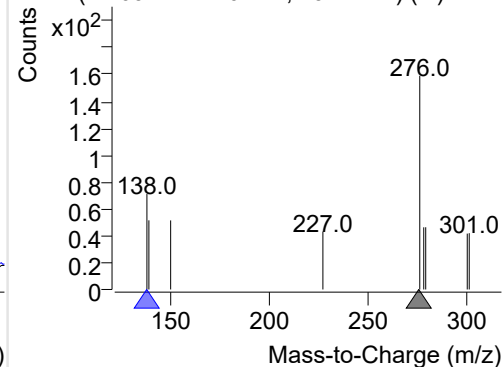
+ Selected Ion (276.0) 221107-PAHs-005.D



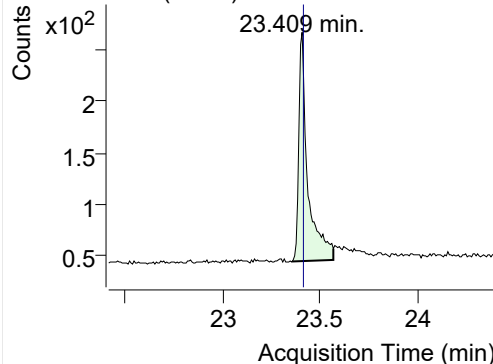
276.0, 138.0



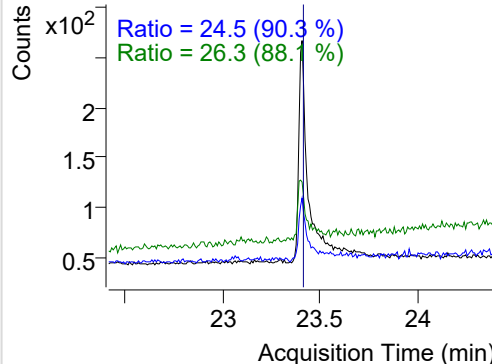
+ SIM (21.097-21.240 min, 19 scans) (**) 2211

**Coronene**

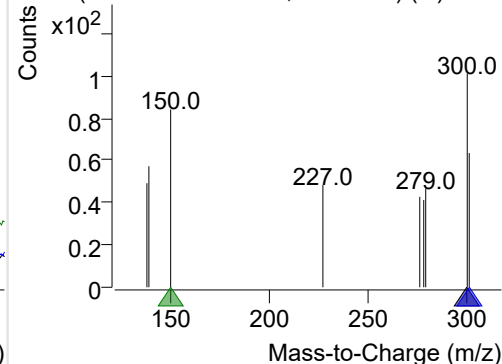
+ Selected Ion (300.0) 221107-PAHs-005.D



300.0, 301.0, 150.0



+ SIM (23.357-23.569 min, 28 scans) (**) 2211



Quantitative Analysis Sample Based Report

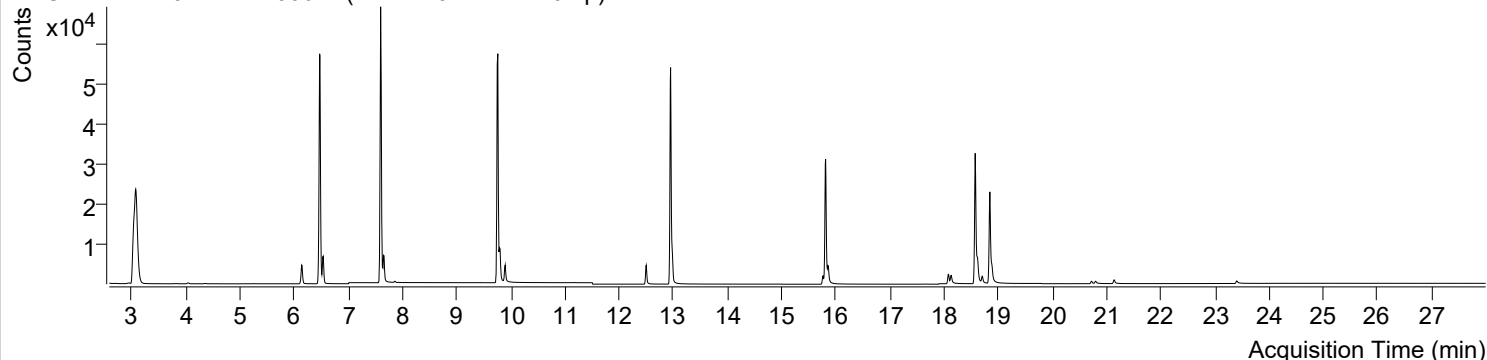


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-07 오후 6:36:15	Data File	221107-PAHs-006.D
Type	Sample	Name	PAHs-19mix-STD-0.1p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

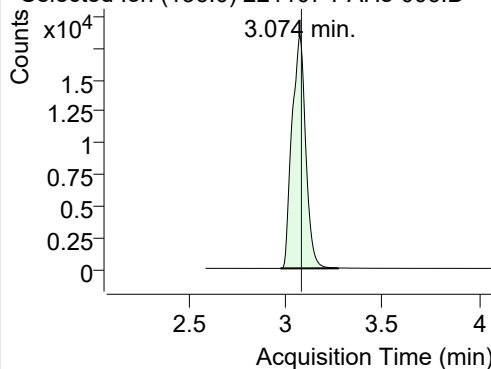
+ TIC SIM 221107-PAHs-006.D (PAHs-19mix-STD-0.1p)



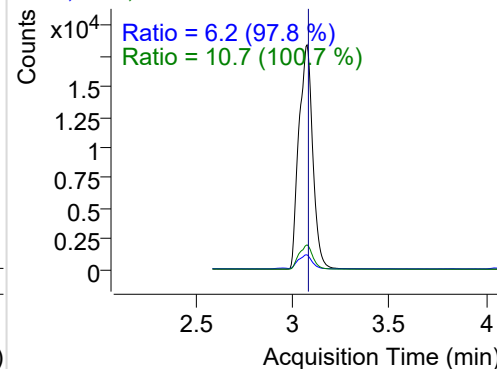
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	90576	18354.29	ND ng/ml	10.7
Naphthalene	3.096	128.0	10737	2198.36	ND ng/ml	13.0
Acenaphthylene	6.137	152.0	7065	3503.28	ND ng/ml	19.8
IS-D10-Acenaphthene	6.475	164.0	49247	27159.87	ND ng/ml	99.5
Acenaphthene	6.534	154.0	4498	2376.41	ND ng/ml	107.6
LSS-D10-Fluorene	7.596	176.0	51180	30411.88	ND ng/ml	95.5
Fluorene	7.659	166.0	5507	2968.13	ND ng/ml	95.5
IS-D10-Phenanthrene	9.759	188.0	81361	46613.94	ND ng/ml	14.9
Phenanthrene	9.801	178.0	8426	4706.34	ND ng/ml	19.6
Anthracene	9.895	178.0	5247	2800.90	ND ng/ml	19.5
Fluoranthene	12.499	202.0	6432	3668.27	ND ng/ml	16.6
LSS-D10-Pyrene	12.949	212.0	63526	40059.71	ND ng/ml	18.5
Pyrene	12.976	202.0	8496	4617.54	ND ng/ml	17.2
Benz(a)anthracene	15.762	228.0	2821	1383.60	ND ng/ml	26.5
IS-D12-Chrysene	15.811	240.0	43040	23221.33	ND ng/ml	18.8
Chrysene	15.860	228.0	4916	2342.55	ND ng/ml	29.5
Benzo(b)fluoranthene	18.082	252.0	2608	1364.33	ND ng/ml	21.9
Benzo(k)fluoranthene	18.131	252.0	2951	1188.05	ND ng/ml	23.5
SS-D12-Benzo(e)pyrene	18.573	264.0	42275	21846.36	ND ng/ml	26.5
Benzo(e)pyrene	18.616	252.0	5141	2410.72	ND ng/ml	21.1
Benzo(a)pyrene	18.701	252.0	1882	890.04	ND ng/ml	21.4
IS-D12-Perylene	18.843	264.0	30050	15427.97	ND ng/ml	24.5
Perylene	18.879	252.0	3410	1517.56	ND ng/ml	22.6
Indeno(1,2,3-c,d)pyrene	20.721	276.0	1021	479.32	ND ng/ml	19.7
Dibenz(a,h)anthracene	20.797	278.0	888	307.65	ND ng/ml	22.5
Benzo(g,h,i)perylene	21.141	276.0	1773	745.36	ND ng/ml	22.9
Coronene	23.401	300.0	1284	420.52	ND ng/ml	28.1

IS-D8-Naphthalene

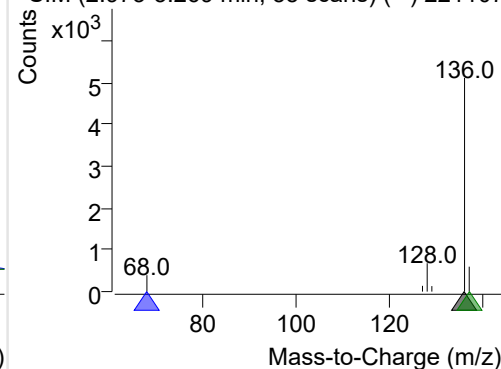
+ Selected Ion (136.0) 221107-PAHs-006.D



136.0, 68.0, 137.0

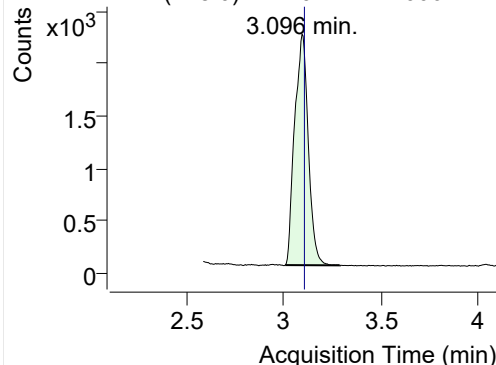


+ SIM (2.973-3.269 min, 55 scans) (**) 221107

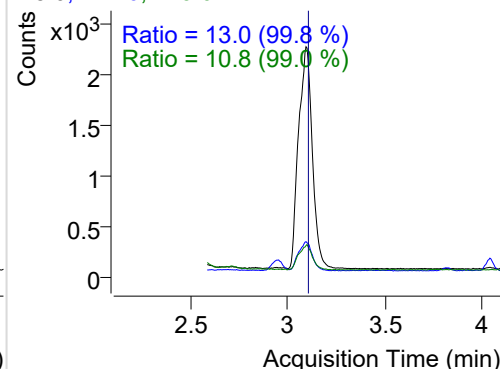


Naphthalene

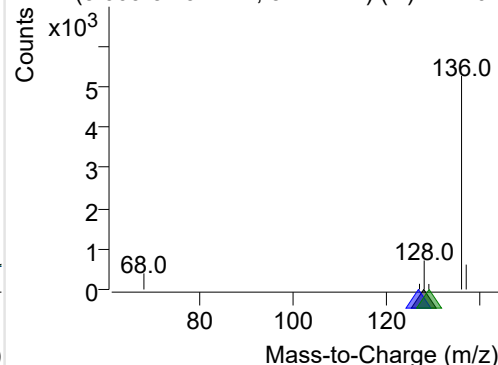
+ Selected Ion (128.0) 221107-PAHs-006.D



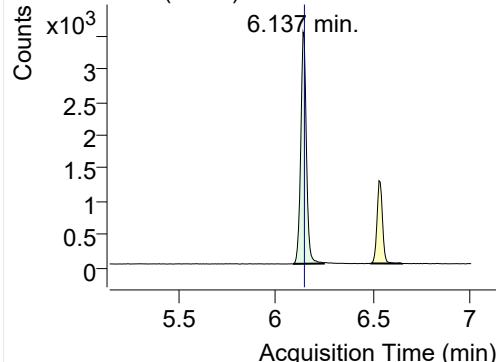
128.0, 127.0, 129.0



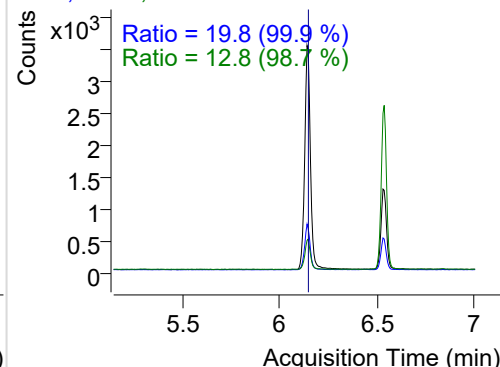
+ SIM (3.009-3.291 min, 52 scans) (**) 221107

**Acenaphthylene**

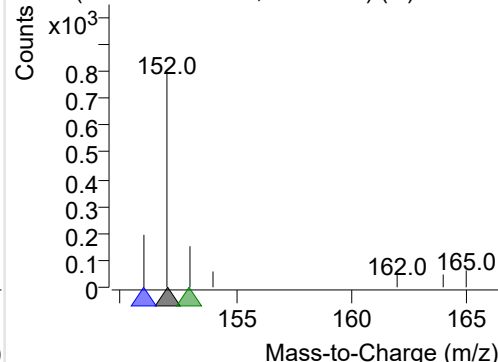
+ Selected Ion (152.0) 221107-PAHs-006.D



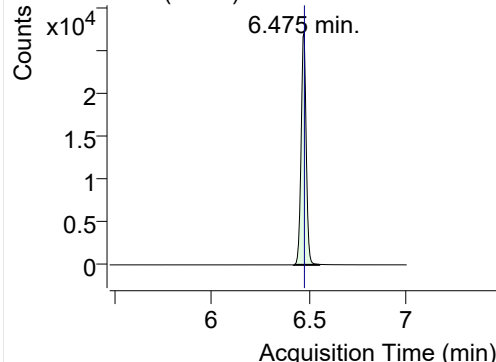
152.0, 151.0, 153.0



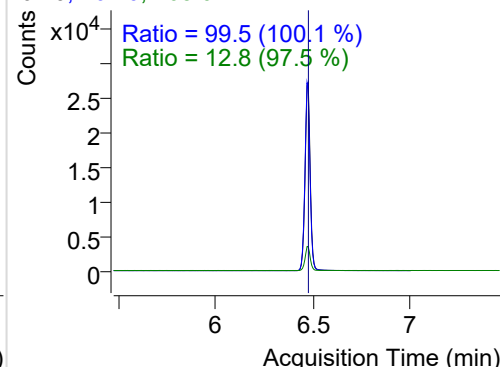
+ SIM (6.086-6.244 min, 27 scans) (**) 221107

**IS-D10-Acenaphthene**

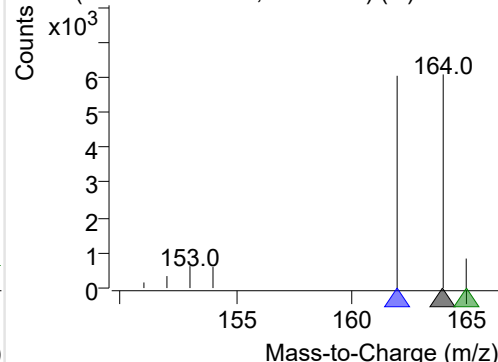
+ Selected Ion (164.0) 221107-PAHs-006.D



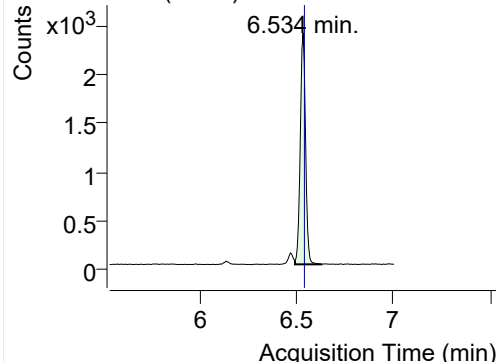
164.0, 162.0, 165.0



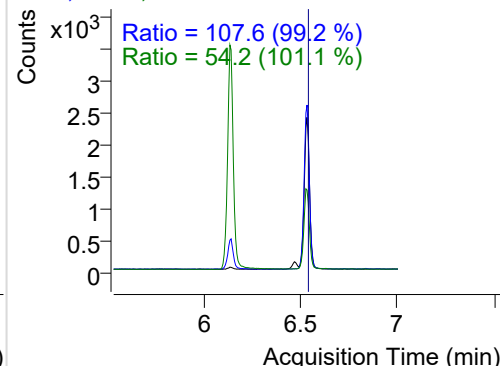
+ SIM (6.422-6.552 min, 23 scans) (**) 221107

**Acenaphthene**

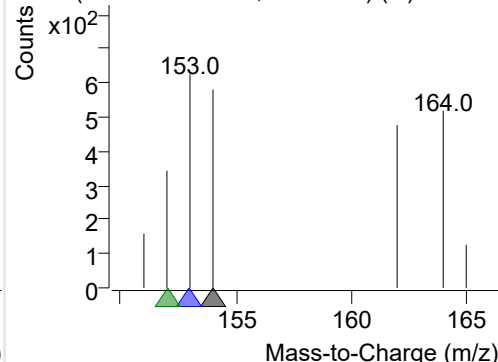
+ Selected Ion (154.0) 221107-PAHs-006.D



154.0, 153.0, 152.0

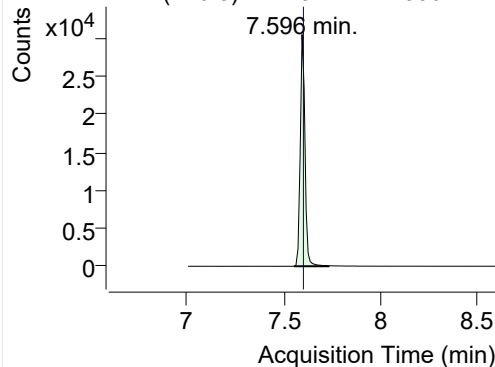


+ SIM (6.493-6.629 min, 24 scans) (**) 221107

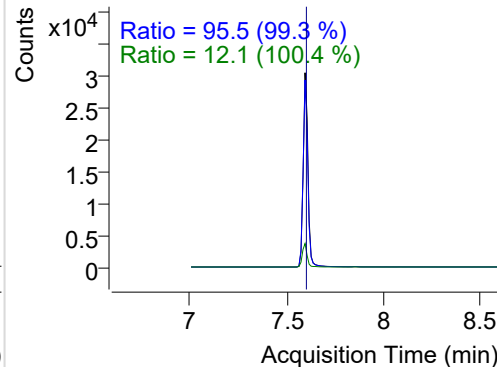


LSS-D10-Fluorene

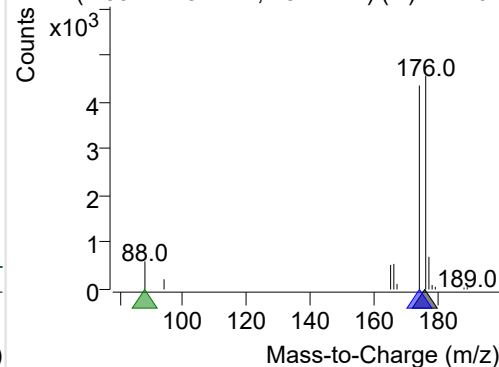
+ Selected Ion (176.0) 221107-PAHs-006.D



176.0, 174.0, 88.0

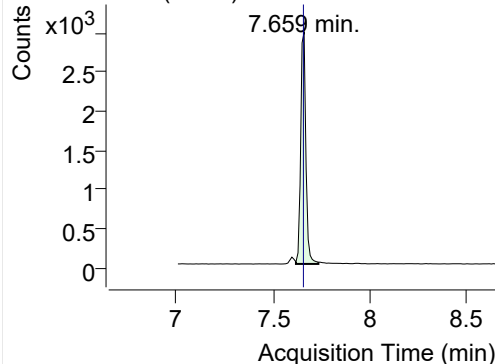


+ SIM (7.554-7.732 min, 18 scans) (**) 221107

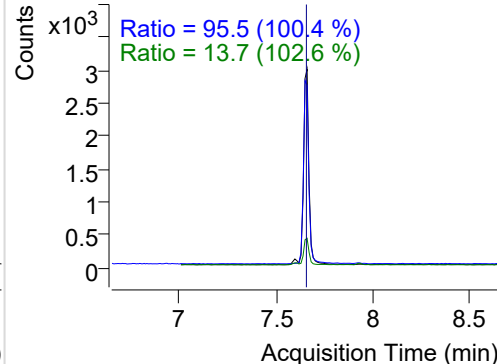


Fluorene

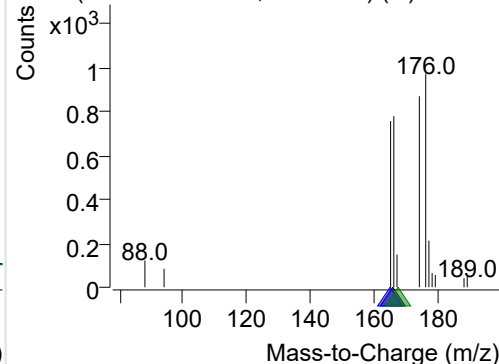
+ Selected Ion (166.0) 221107-PAHs-006.D



166.0, 165.0, 167.0

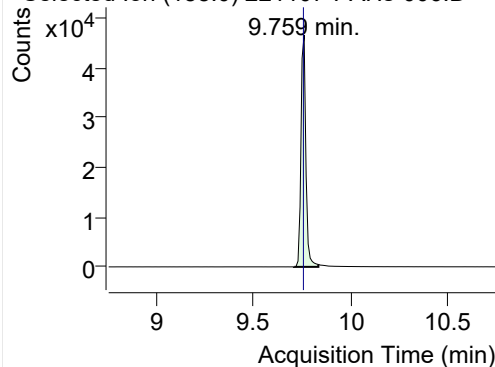


+ SIM (7.617-7.732 min, 12 scans) (**) 221107

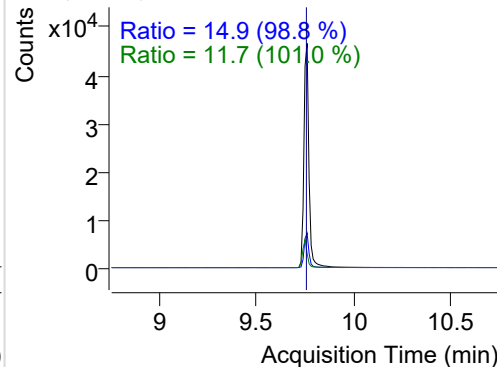


IS-D10-Phenanthrene

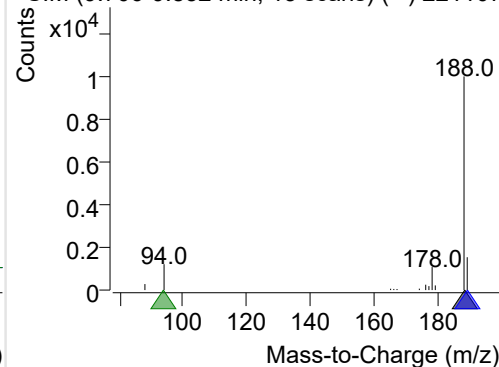
+ Selected Ion (188.0) 221107-PAHs-006.D



188.0, 189.0, 94.0

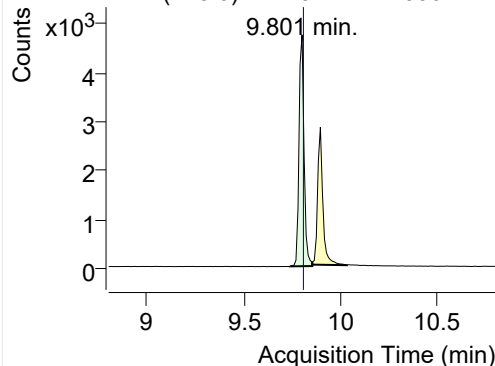


+ SIM (9.706-9.832 min, 13 scans) (**) 221107

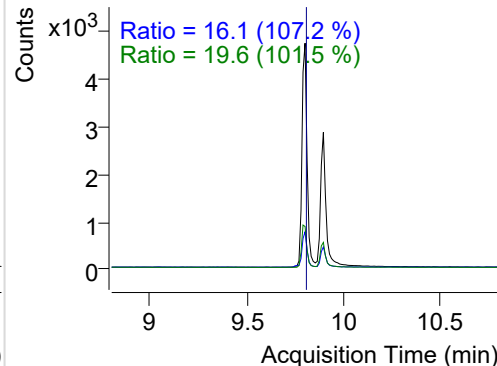


Phenanthrene

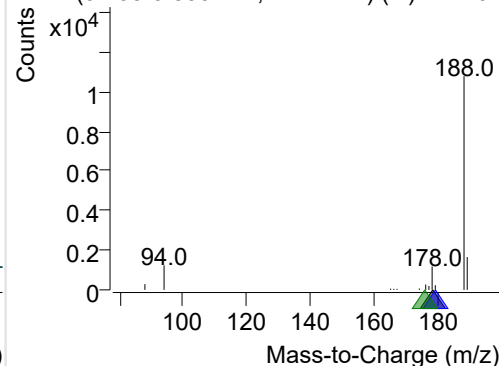
+ Selected Ion (178.0) 221107-PAHs-006.D



178.0, 179.0, 176.0

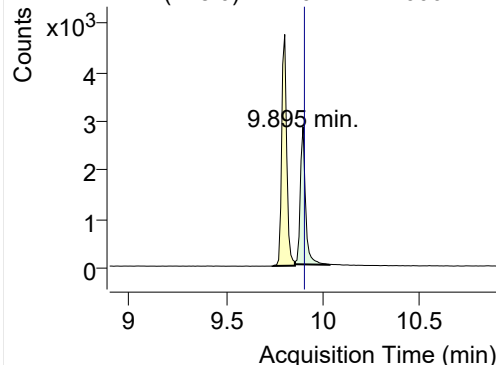


+ SIM (9.738-9.853 min, 12 scans) (**) 221107

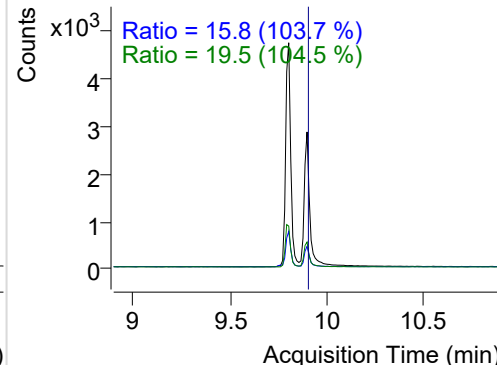


Anthracene

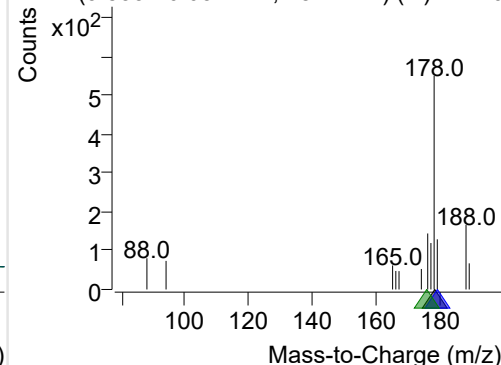
+ Selected Ion (178.0) 221107-PAHs-006.D



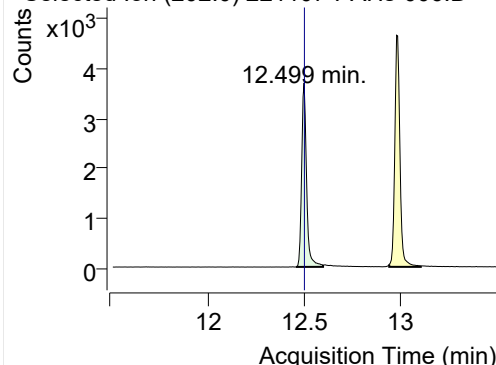
178.0, 179.0, 176.0



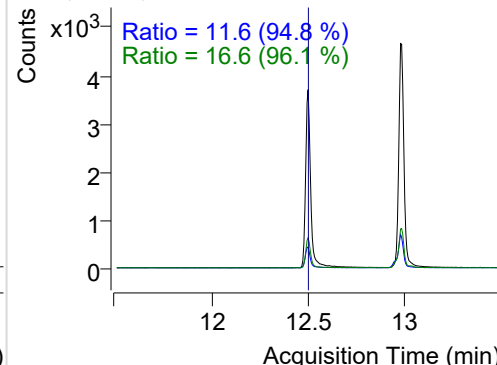
+ SIM (9.853-10.032 min, 18 scans) (**) 22110

**Fluoranthene**

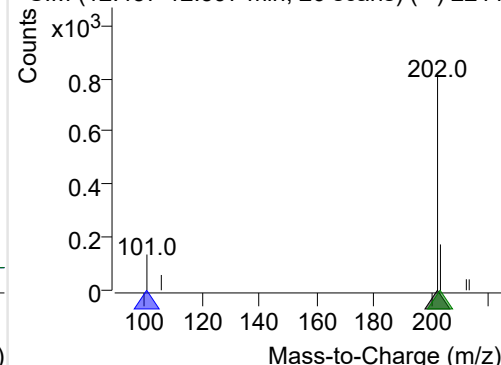
+ Selected Ion (202.0) 221107-PAHs-006.D



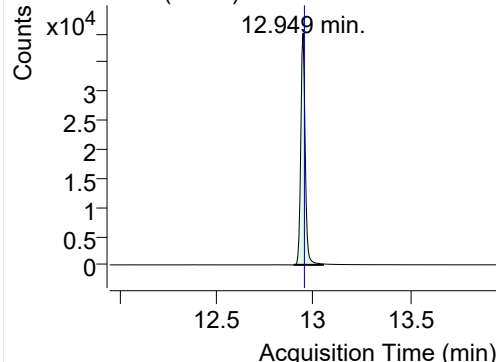
202.0, 101.0, 203.0



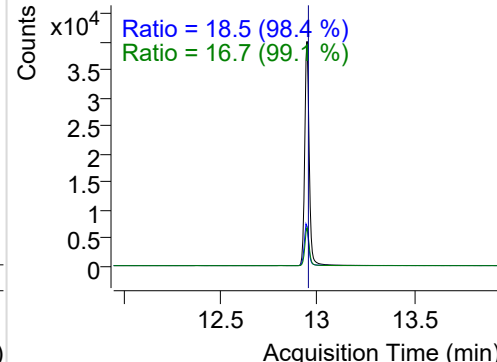
+ SIM (12.457-12.597 min, 26 scans) (**) 2211

**LSS-D10-Pyrene**

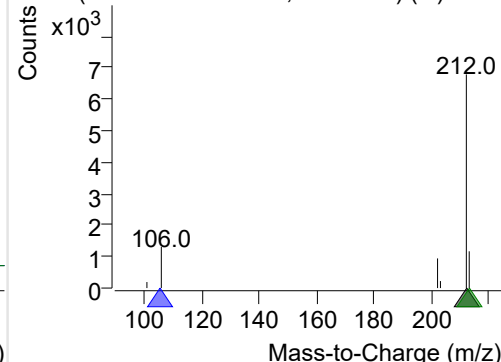
+ Selected Ion (212.0) 221107-PAHs-006.D



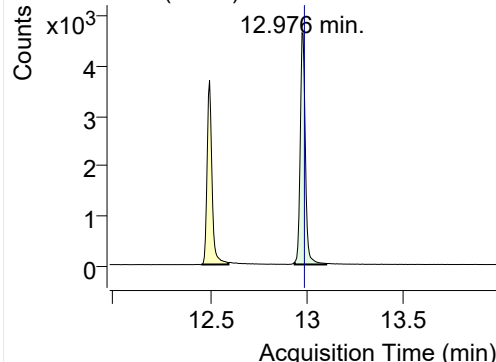
212.0, 106.0, 213.0



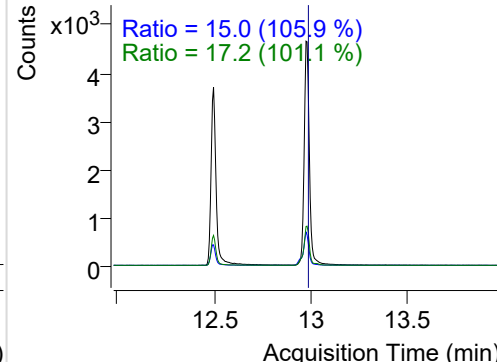
+ SIM (12.900-13.052 min, 29 scans) (**) 2211

**Pyrene**

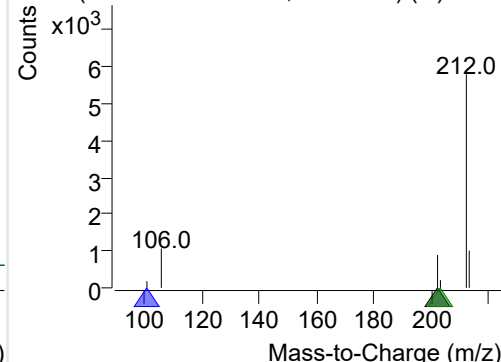
+ Selected Ion (202.0) 221107-PAHs-006.D



202.0, 101.0, 203.0

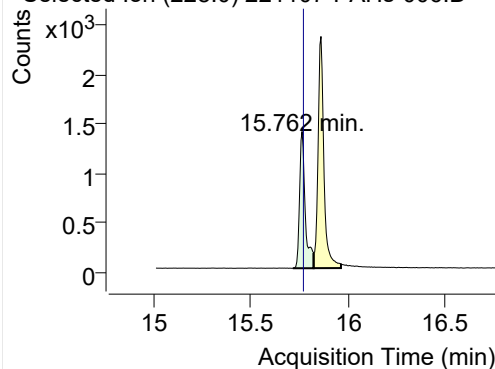


+ SIM (12.938-13.101 min, 31 scans) (**) 2211

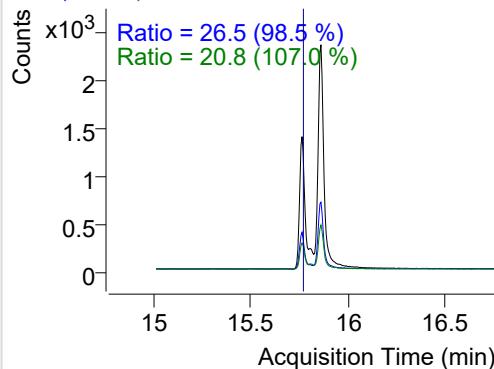


Benz(a)anthracene

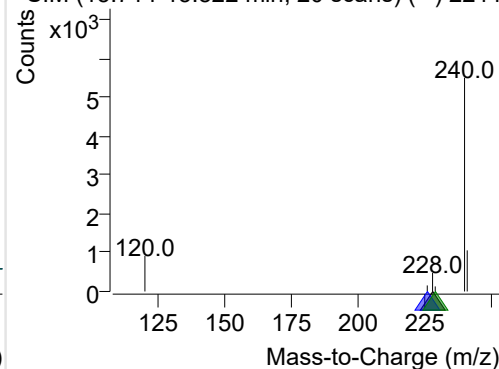
+ Selected Ion (228.0) 221107-PAHs-006.D



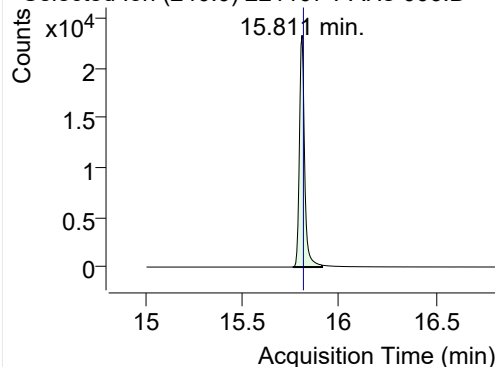
228.0, 226.0, 229.0



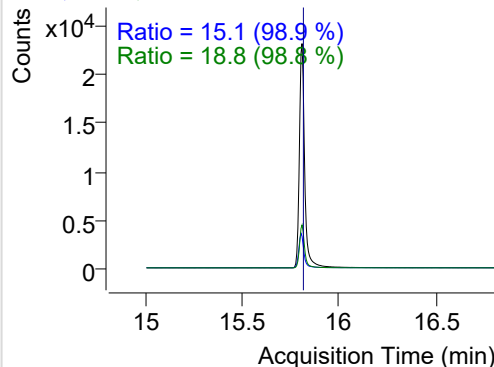
+ SIM (15.714-15.822 min, 20 scans) (**) 2211

**IS-D12-Chrysene**

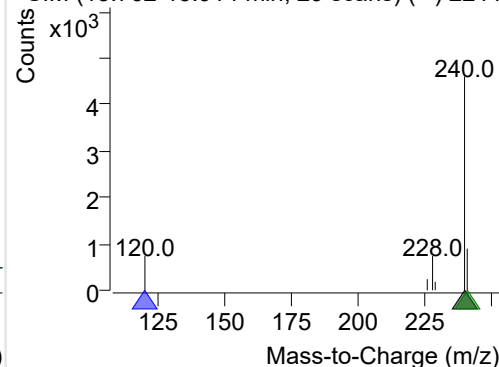
+ Selected Ion (240.0) 221107-PAHs-006.D



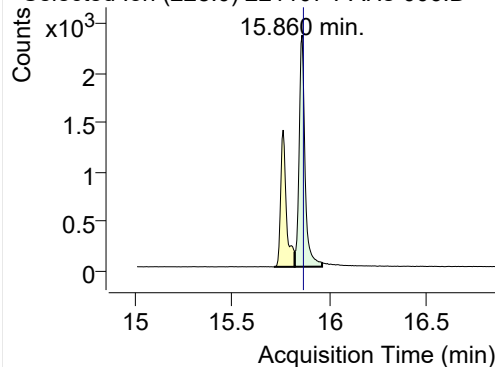
240.0, 120.0, 241.0



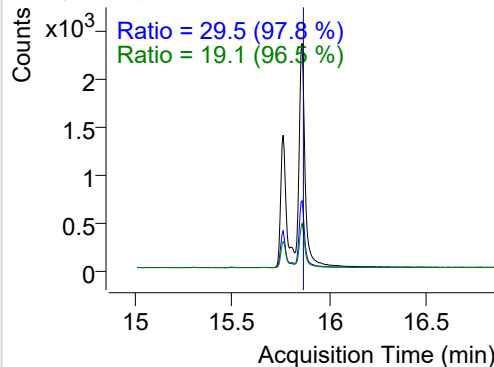
+ SIM (15.762-15.914 min, 29 scans) (**) 2211

**Chrysene**

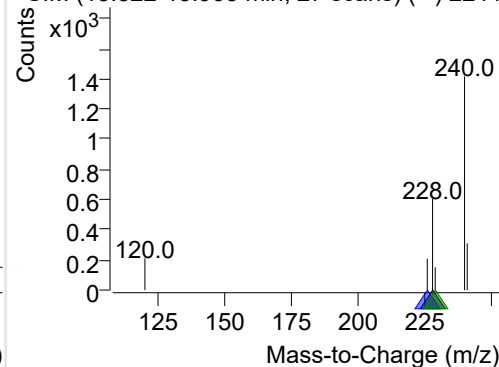
+ Selected Ion (228.0) 221107-PAHs-006.D



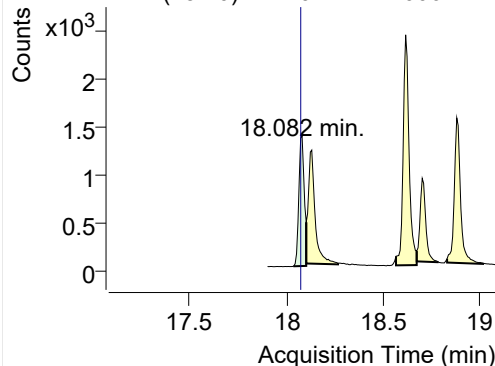
228.0, 226.0, 229.0



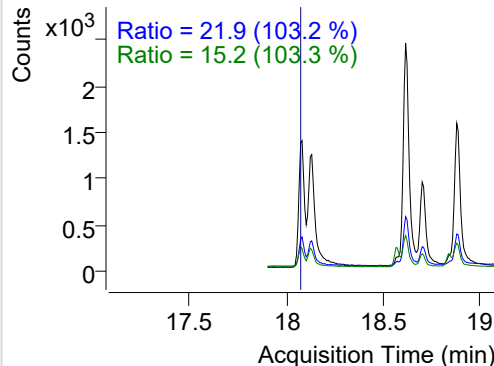
+ SIM (15.822-15.963 min, 27 scans) (**) 2211

**Benzo(b)fluoranthene**

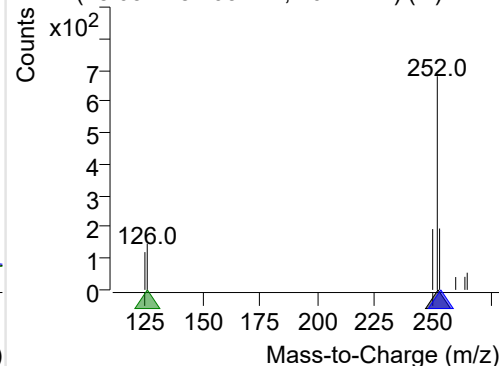
+ Selected Ion (252.0) 221107-PAHs-006.D



252.0, 253.0, 126.0

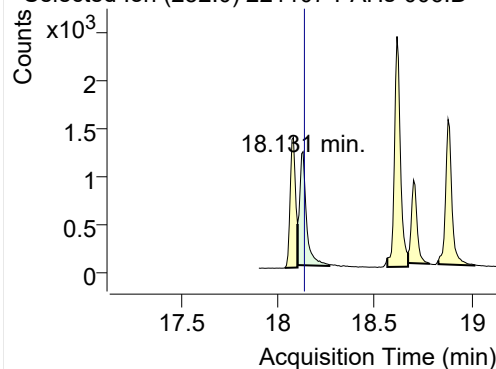


+ SIM (18.037-18.103 min, 10 scans) (**) 2211

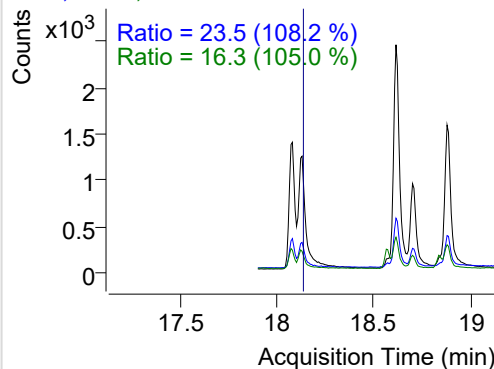


Benzo(k)fluoranthene

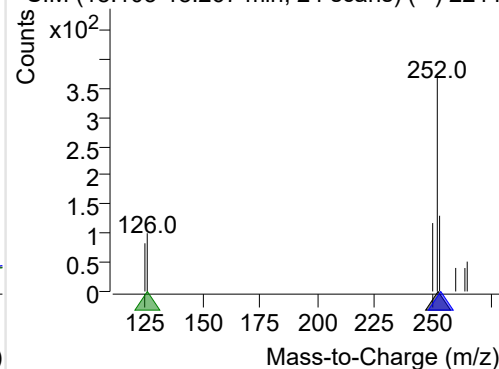
+ Selected Ion (252.0) 221107-PAHs-006.D



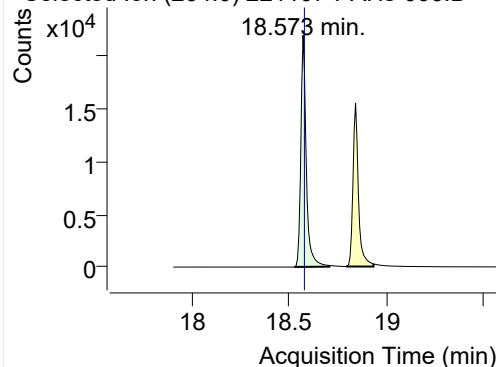
252.0, 253.0, 126.0



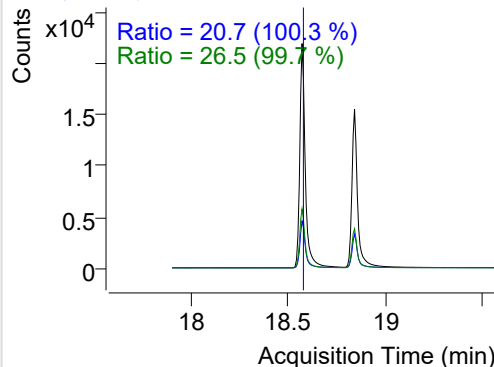
+ SIM (18.103-18.267 min, 24 scans) (**) 2211

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

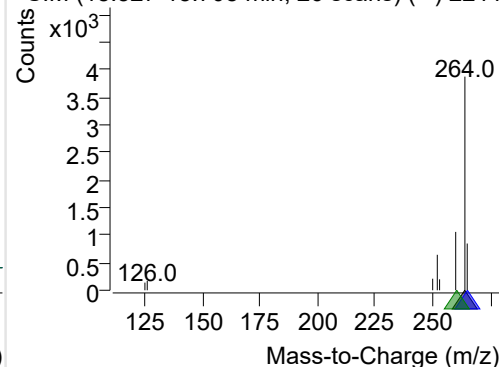
+ Selected Ion (264.0) 221107-PAHs-006.D



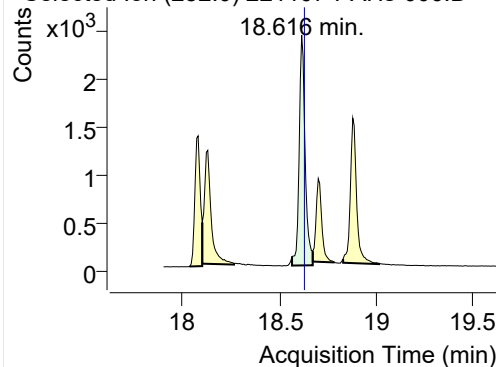
264.0, 265.0, 260.0



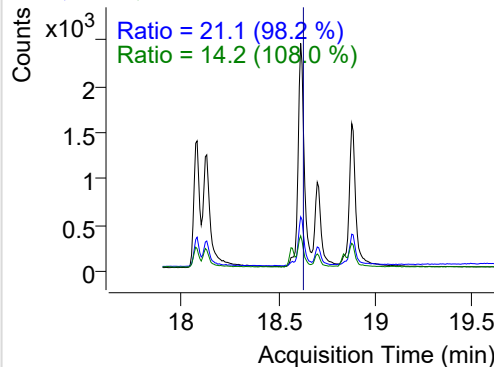
+ SIM (18.527-18.708 min, 26 scans) (**) 2211

**Benzo(e)pyrene**

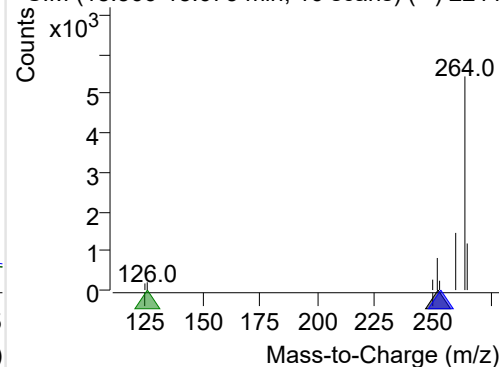
+ Selected Ion (252.0) 221107-PAHs-006.D



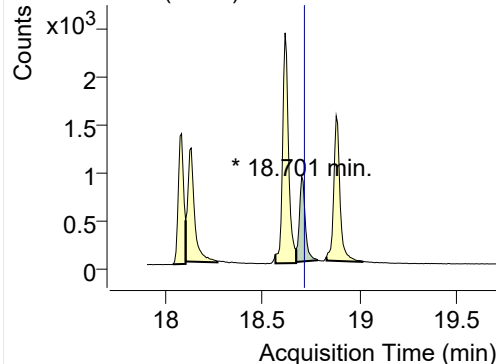
252.0, 253.0, 126.0



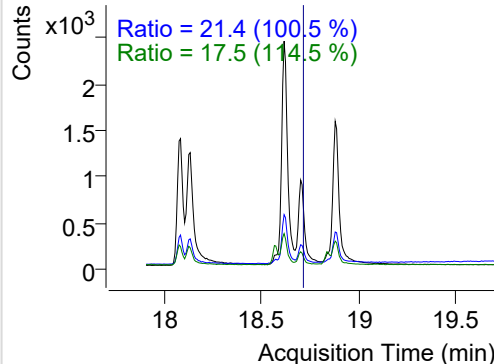
+ SIM (18.566-18.673 min, 16 scans) (**) 2211

**Benzo(a)pyrene**

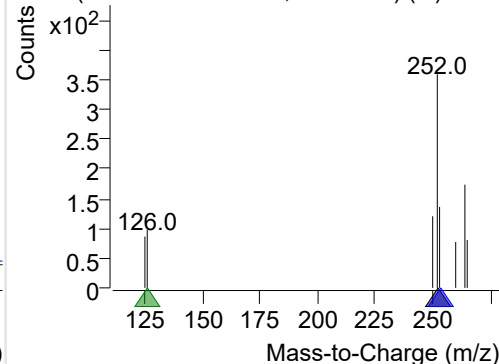
+ Selected Ion (252.0) 221107-PAHs-006.D



252.0, 253.0, 126.0

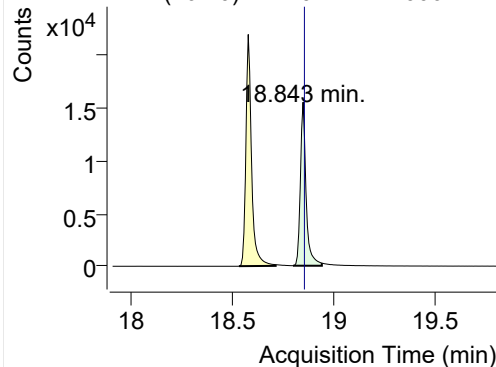


+ SIM (18.673-18.785 min, 16 scans) (**) 2211

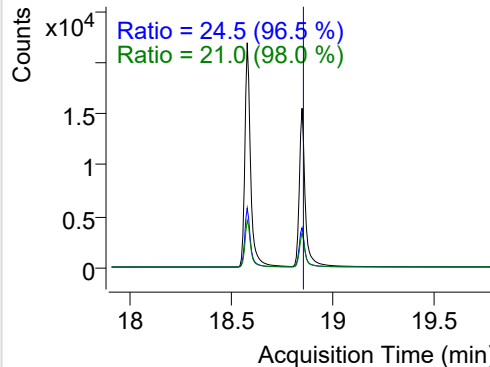


IS-D12-Perylene

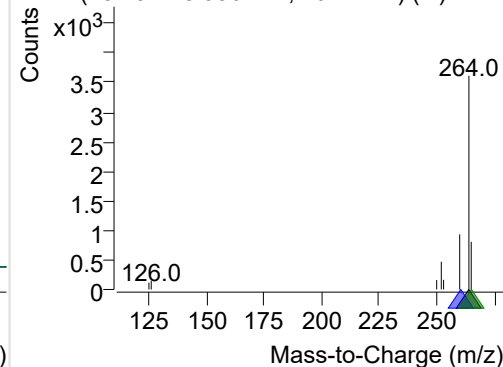
+ Selected Ion (264.0) 221107-PAHs-006.D



264.0, 260.0, 265.0

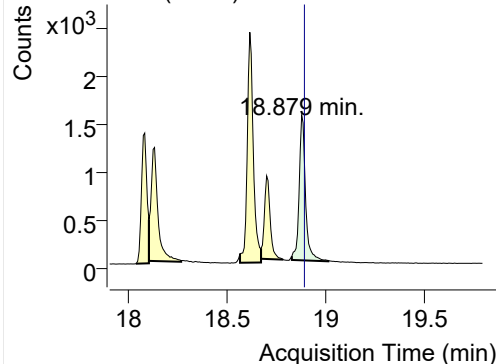


+ SIM (18.794-18.936 min, 20 scans) (**) 2211

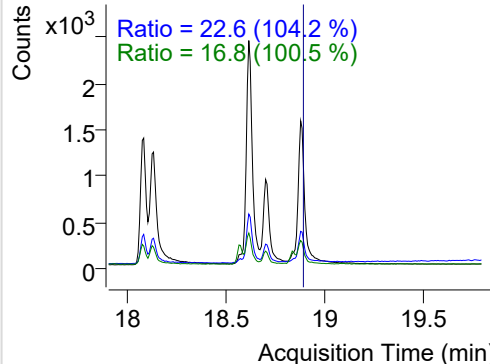


Perylene

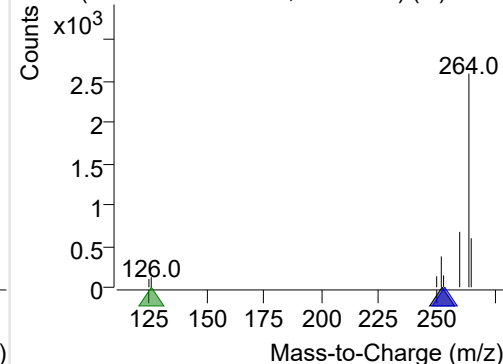
+ Selected Ion (252.0) 221107-PAHs-006.D



252.0, 253.0, 126.0

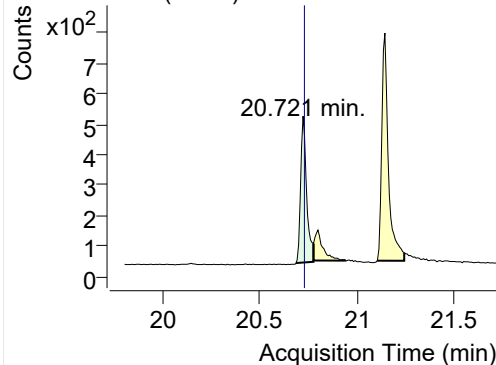


+ SIM (18.829-19.014 min, 27 scans) (**) 2211

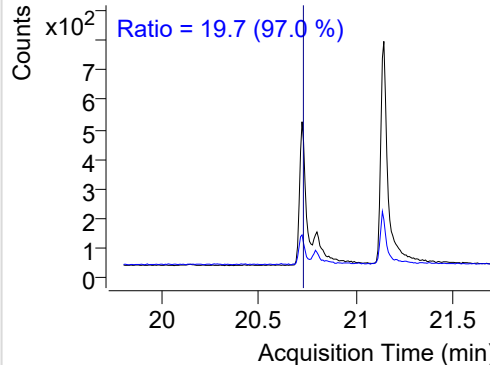


Indeno(1,2,3-c,d)pyrene

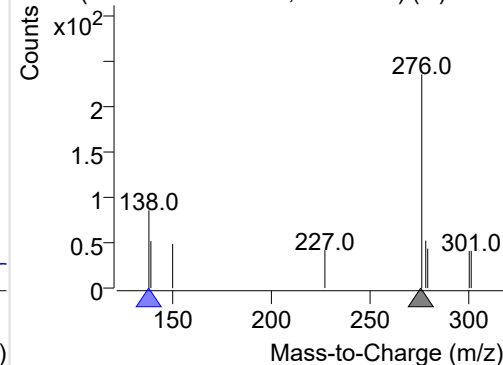
+ Selected Ion (276.0) 221107-PAHs-006.D



276.0, 138.0

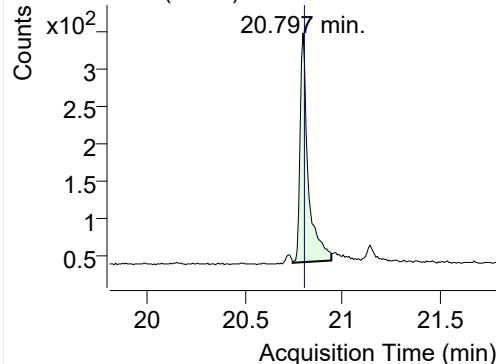


+ SIM (20.684-20.774 min, 12 scans) (**) 2211

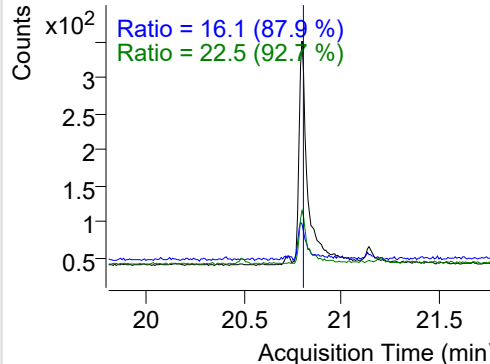


Dibenz(a,h)anthracene

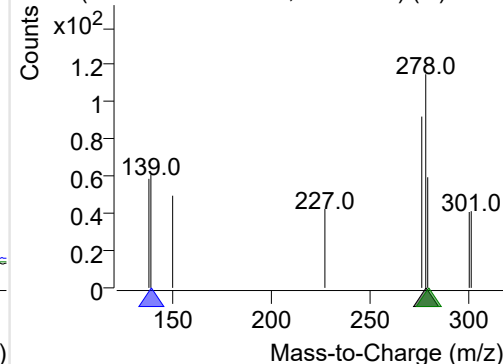
+ Selected Ion (278.0) 221107-PAHs-006.D



278.0, 139.0, 279.0

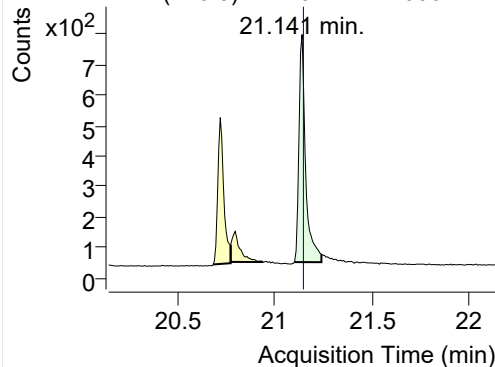


+ SIM (20.744-20.942 min, 27 scans) (**) 2211

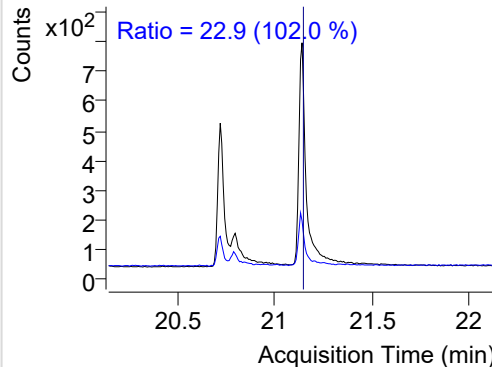


Benzo(g,h,i)perylene

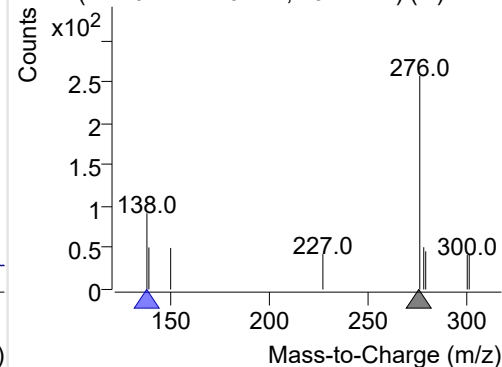
+ Selected Ion (276.0) 221107-PAHs-006.D



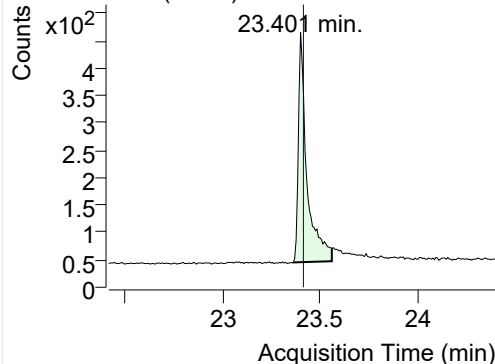
276.0, 138.0



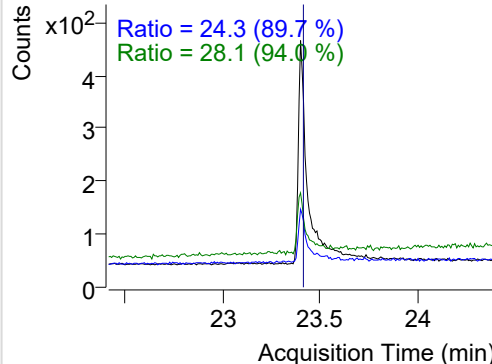
+ SIM (21.101-21.240 min, 19 scans) (**) 2211

**Coronene**

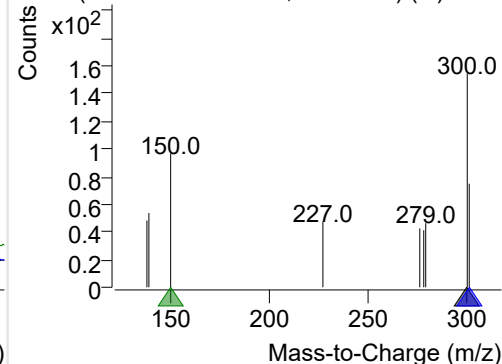
+ Selected Ion (300.0) 221107-PAHs-006.D



300.0, 301.0, 150.0



+ SIM (23.364-23.561 min, 26 scans) (**) 2211



Quantitative Analysis Sample Based Report

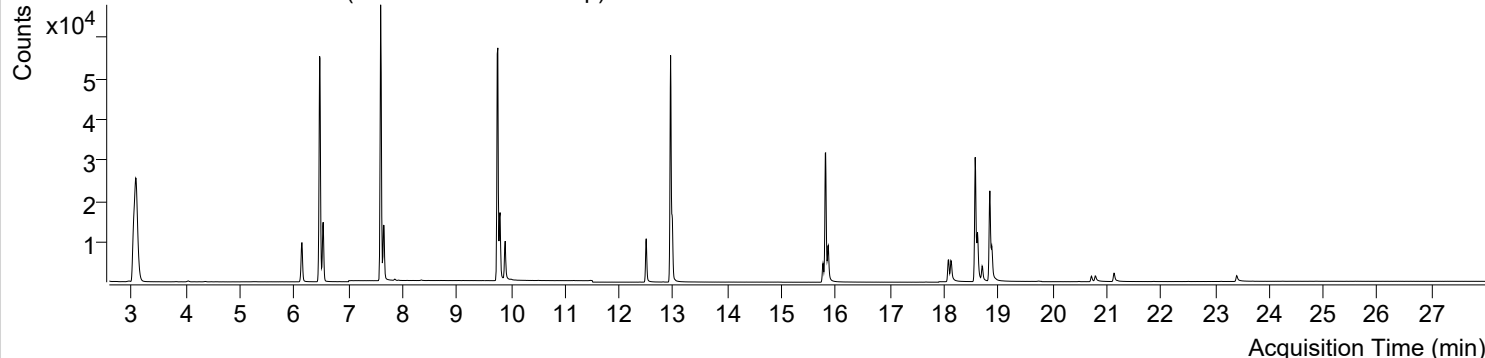


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-07 오후 7:07:20	Data File	221107-PAHs-007.D
Type	Sample	Name	PAHs-19mix-STD-0.2p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

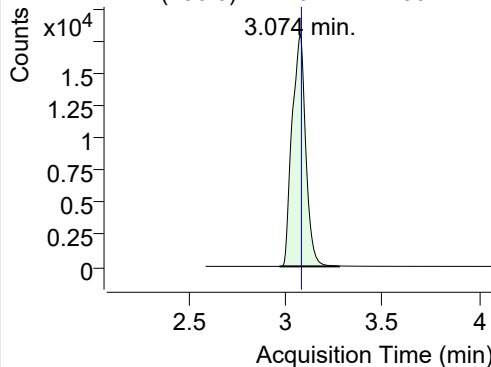
+ TIC SIM 221107-PAHs-007.D (PAHs-19mix-STD-0.2p)



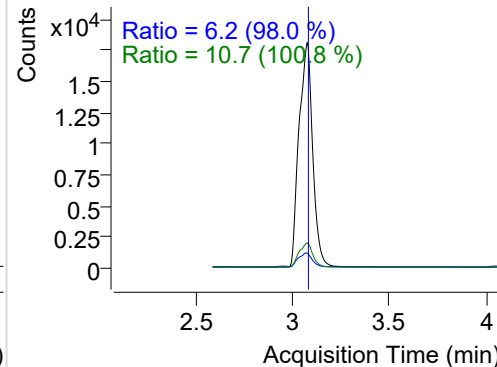
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	87968	18038.72	ND ng/ml	10.7
Naphthalene	3.096	128.0	21424	4527.41	ND ng/ml	12.9
Acenaphthylene	6.143	152.0	14663	7163.08	ND ng/ml	19.8
IS-D10-Acenaphthene	6.475	164.0	48110	25984.65	ND ng/ml	99.1
Acenaphthene	6.534	154.0	9296	5078.61	ND ng/ml	108.3
LSS-D10-Fluorene	7.596	176.0	50731	29564.83	ND ng/ml	95.2
Fluorene	7.659	166.0	11551	6272.04	ND ng/ml	95.2
IS-D10-Phenanthrene	9.759	188.0	80822	46307.85	ND ng/ml	15.0
Phenanthrene	9.801	178.0	17751	10145.12	ND ng/ml	19.0
Anthracene	9.896	178.0	11389	6303.59	ND ng/ml	17.7
Fluoranthene	12.499	202.0	14106	8238.68	ND ng/ml	17.0
LSS-D10-Pyrene	12.949	212.0	63786	40762.91	ND ng/ml	18.4
Pyrene	12.982	202.0	17734	10428.82	ND ng/ml	17.9
Benz(a)anthracene	15.762	228.0	6164	3126.67	ND ng/ml	26.5
IS-D12-Chrysene	15.811	240.0	44184	23428.69	ND ng/ml	18.6
Chrysene	15.860	228.0	10630	5282.17	ND ng/ml	29.3
Benzo(b)fluoranthene	18.082	252.0	6079	3106.56	ND ng/ml	21.5
Benzo(k)fluoranthene	18.125	252.0	7586	2963.12	ND ng/ml	20.6
SS-D12-Benzo(e)pyrene	18.573	264.0	40816	20275.40	ND ng/ml	26.6
Benzo(e)pyrene	18.616	252.0	10865	5335.53	ND ng/ml	21.7
Benzo(a)pyrene	18.701	252.0	4256	1998.63	ND ng/ml	17.1
IS-D12-Perylene	18.843	264.0	30440	14805.41	ND ng/ml	24.8
Perylene	18.879	252.0	7072	3348.80	ND ng/ml	23.5
Indeno(1,2,3-c,d)pyrene	20.721	276.0	2281	1088.85	ND ng/ml	20.5
Dibenz(a,h)anthracene	20.797	278.0	2089	721.83	ND ng/ml	23.5
Benzo(g,h,i)perylene	21.141	276.0	4051	1620.31	ND ng/ml	22.5
Coronene	23.401	300.0	2758	926.24	ND ng/ml	25.6

IS-D8-Naphthalene

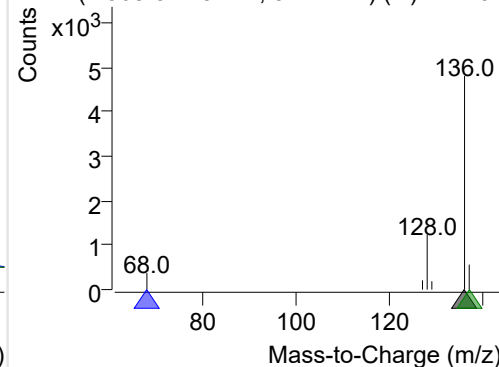
+ Selected Ion (136.0) 221107-PAHs-007.D



136.0, 68.0, 137.0

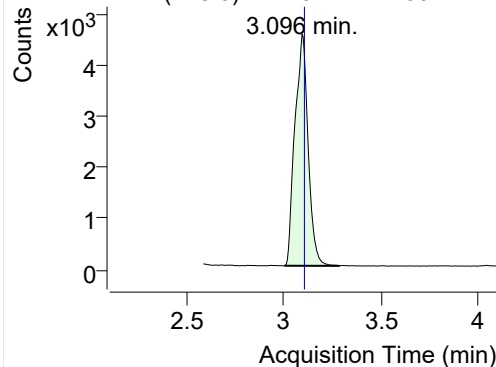


+ SIM (2.968-3.275 min, 57 scans) (**) 221107

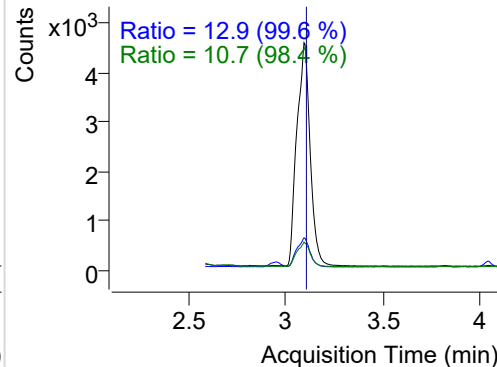


Naphthalene

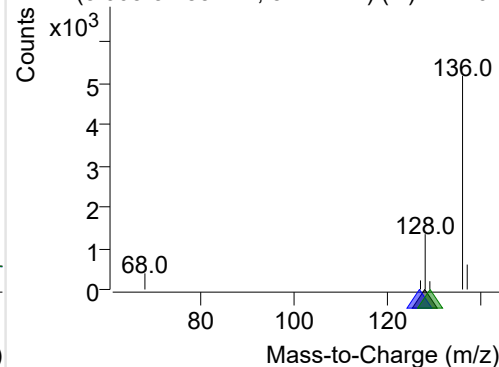
+ Selected Ion (128.0) 221107-PAHs-007.D



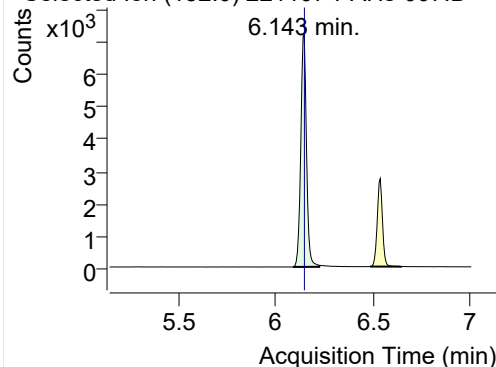
128.0, 127.0, 129.0



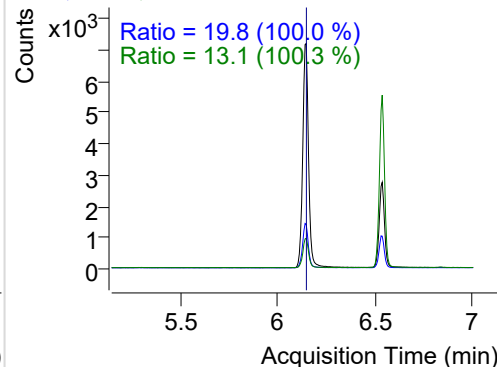
+ SIM (3.005-3.285 min, 52 scans) (**) 221107

**Acenaphthylene**

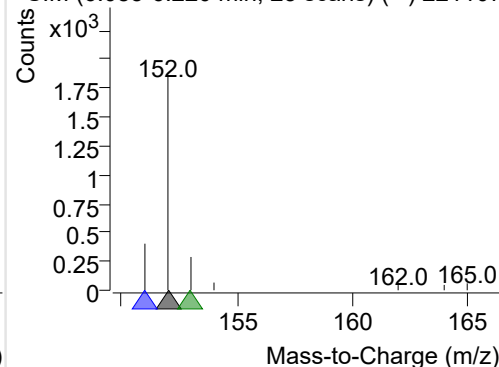
+ Selected Ion (152.0) 221107-PAHs-007.D



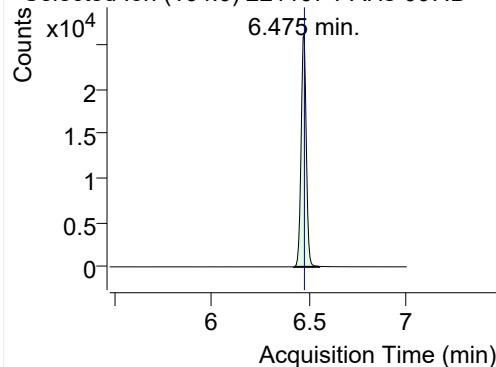
152.0, 151.0, 153.0



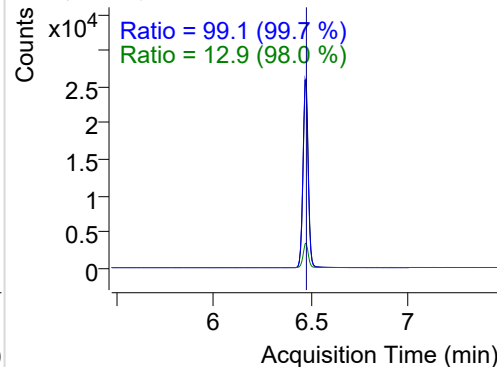
+ SIM (6.085-6.220 min, 23 scans) (**) 221107

**IS-D10-Acenaphthene**

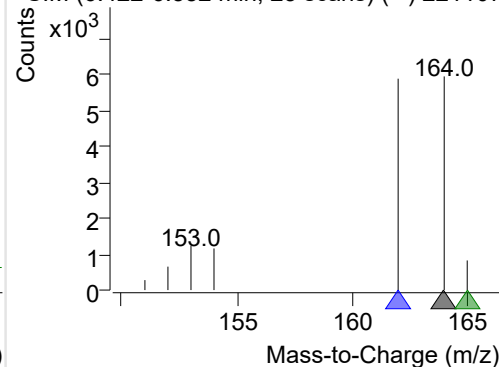
+ Selected Ion (164.0) 221107-PAHs-007.D



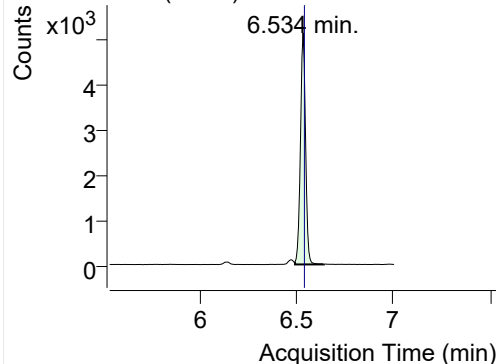
164.0, 162.0, 165.0



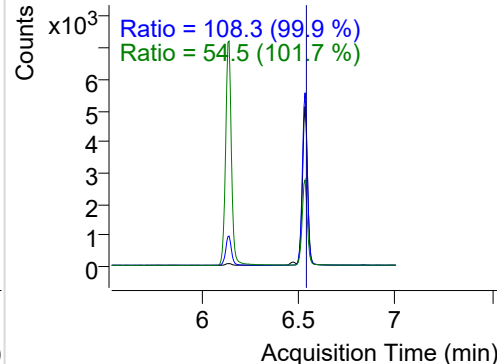
+ SIM (6.422-6.552 min, 23 scans) (**) 221107

**Acenaphthene**

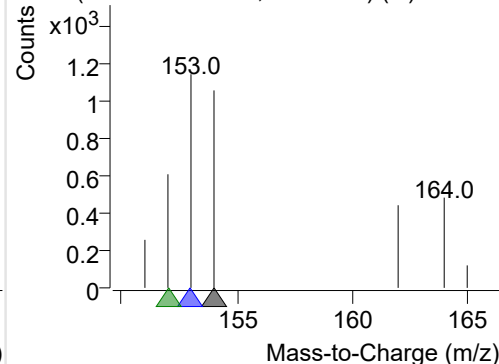
+ Selected Ion (154.0) 221107-PAHs-007.D



154.0, 153.0, 152.0

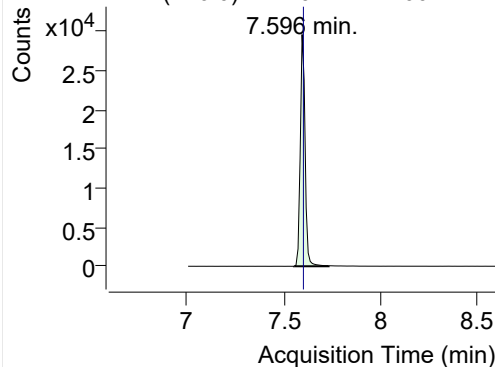


+ SIM (6.493-6.641 min, 26 scans) (**) 221107

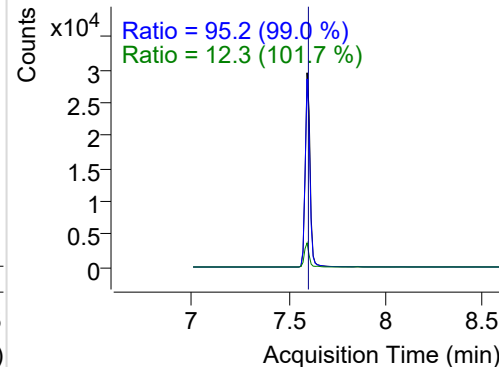


LSS-D10-Fluorene

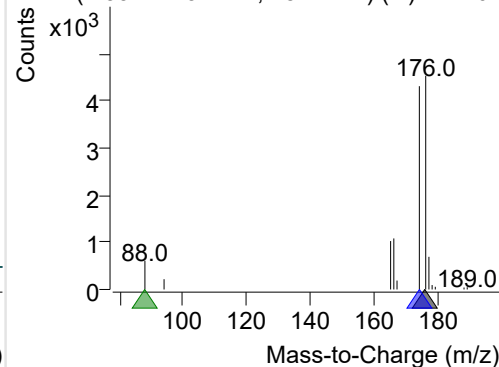
+ Selected Ion (176.0) 221107-PAHs-007.D



176.0, 174.0, 88.0

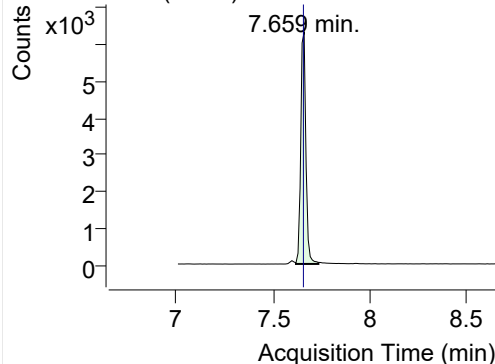


+ SIM (7.554-7.732 min, 18 scans) (**) 221107

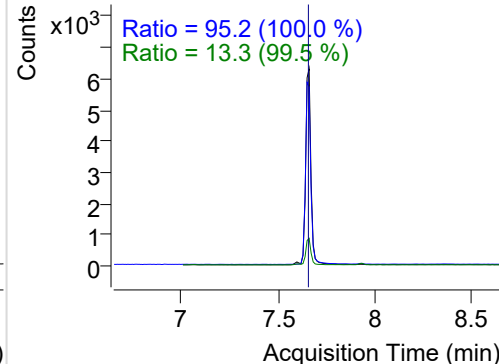


Fluorene

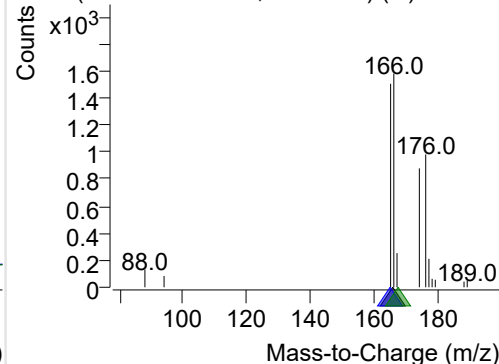
+ Selected Ion (166.0) 221107-PAHs-007.D



166.0, 165.0, 167.0

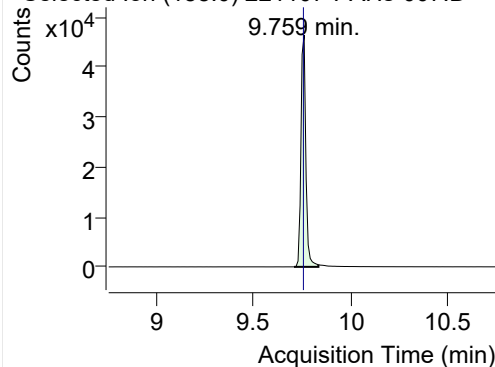


+ SIM (7.617-7.732 min, 12 scans) (**) 221107

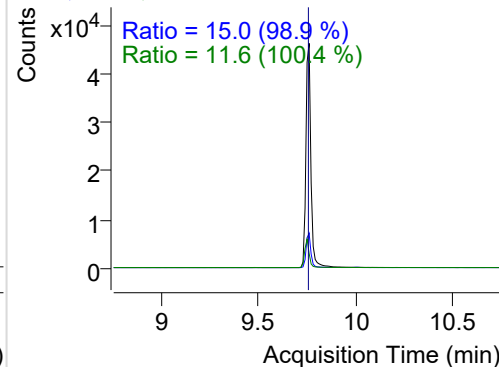


IS-D10-Phenanthrene

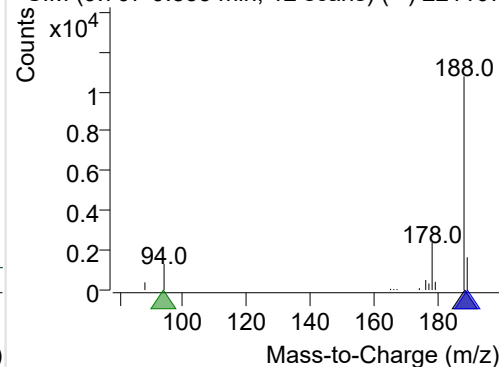
+ Selected Ion (188.0) 221107-PAHs-007.D



188.0, 189.0, 94.0

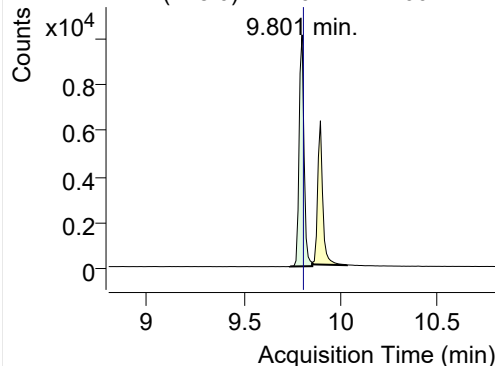


+ SIM (9.707-9.833 min, 12 scans) (**) 221107

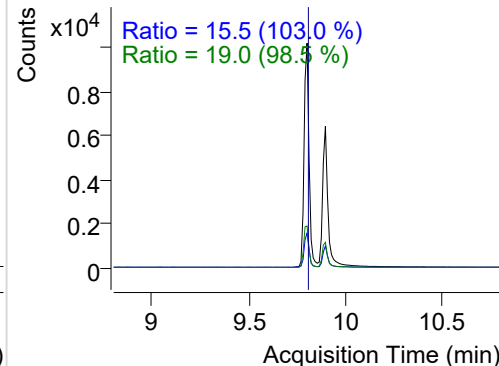


Phenanthrene

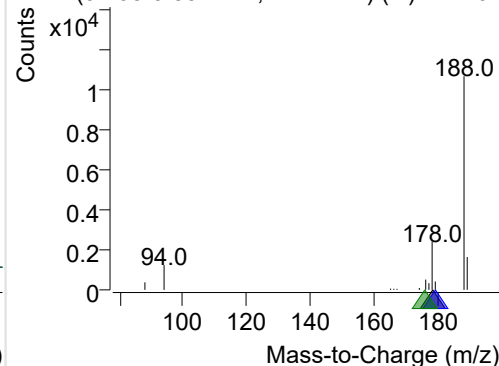
+ Selected Ion (178.0) 221107-PAHs-007.D



178.0, 179.0, 176.0

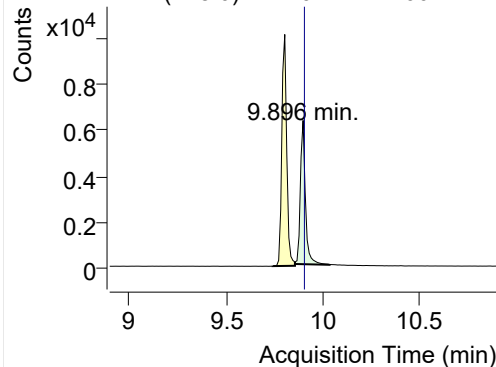


+ SIM (9.738-9.854 min, 12 scans) (**) 221107

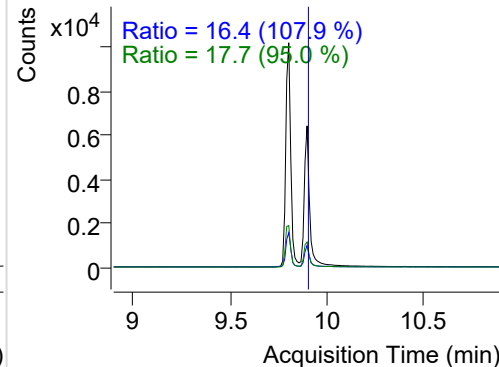


Anthracene

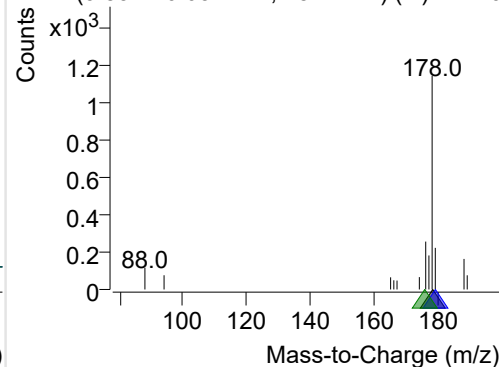
+ Selected Ion (178.0) 221107-PAHs-007.D



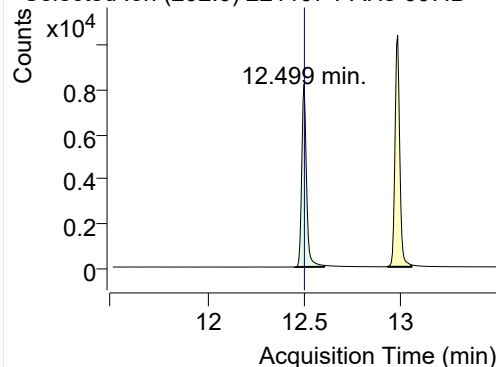
178.0, 179.0, 176.0



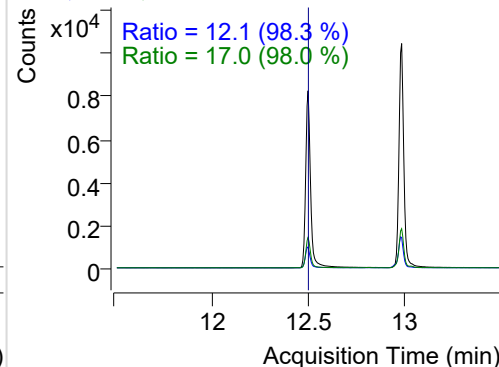
+ SIM (9.854-10.032 min, 18 scans) (**) 22110

**Fluoranthene**

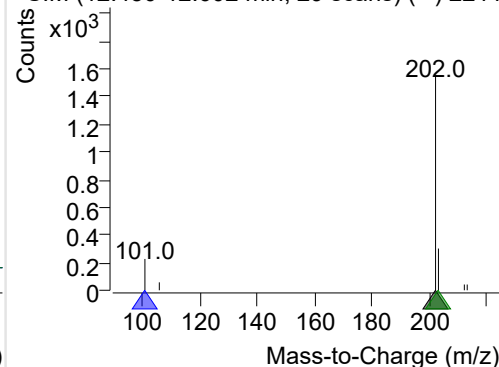
+ Selected Ion (202.0) 221107-PAHs-007.D



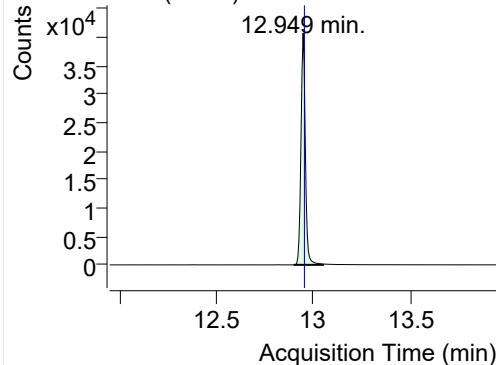
202.0, 101.0, 203.0



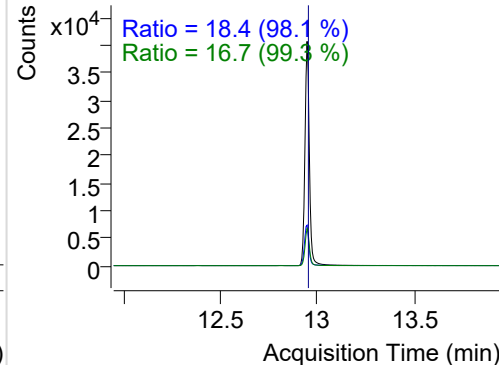
+ SIM (12.450-12.602 min, 29 scans) (**) 2211

**LSS-D10-Pyrene**

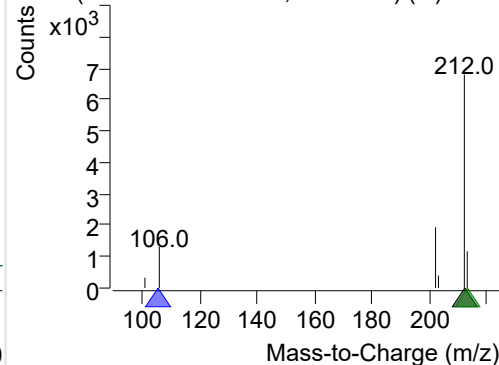
+ Selected Ion (212.0) 221107-PAHs-007.D



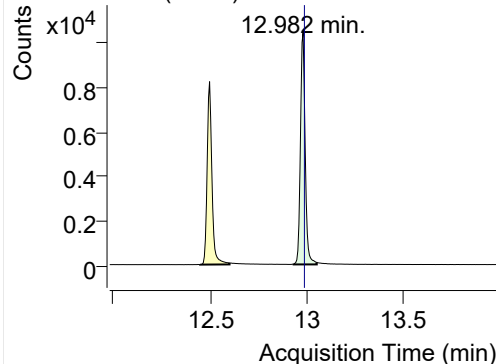
212.0, 106.0, 213.0



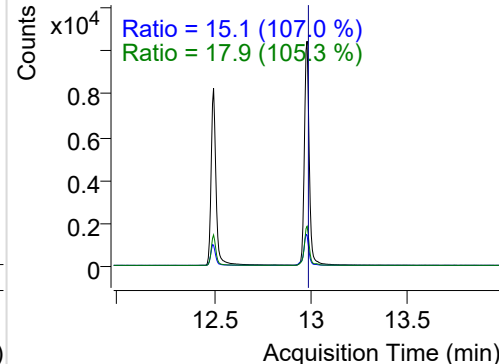
+ SIM (12.900-13.052 min, 29 scans) (**) 2211

**Pyrene**

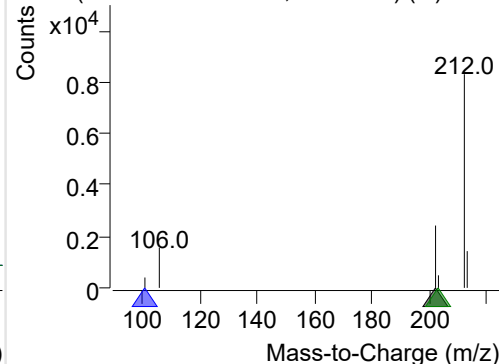
+ Selected Ion (202.0) 221107-PAHs-007.D



202.0, 101.0, 203.0

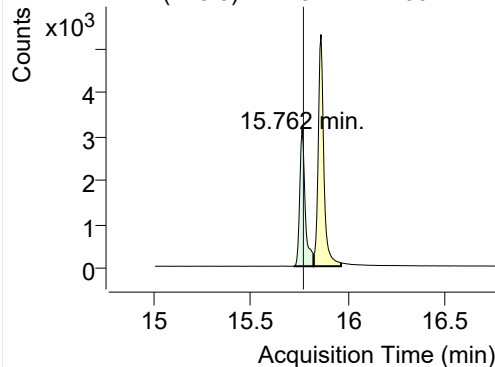


+ SIM (12.933-13.052 min, 23 scans) (**) 2211

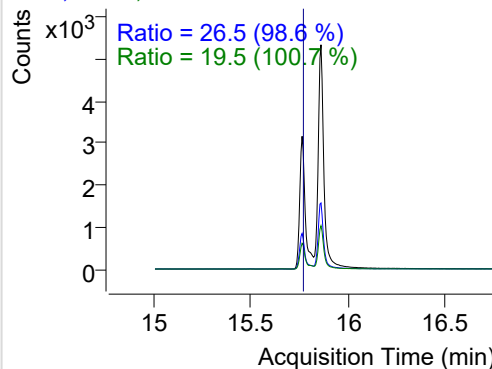


Benz(a)anthracene

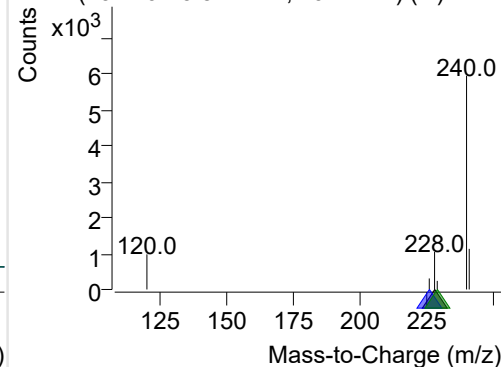
+ Selected Ion (228.0) 221107-PAHs-007.D



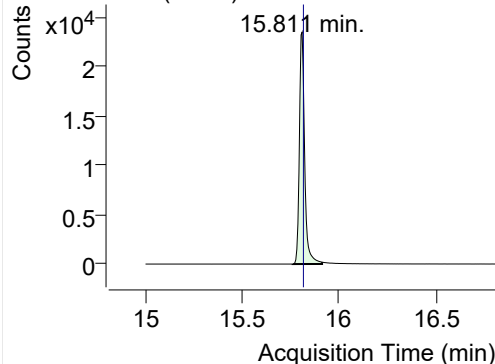
228.0, 226.0, 229.0



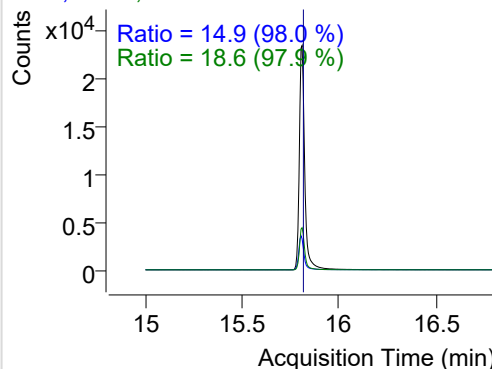
+ SIM (15.719-15.822 min, 19 scans) (**) 2211

**IS-D12-Chrysene**

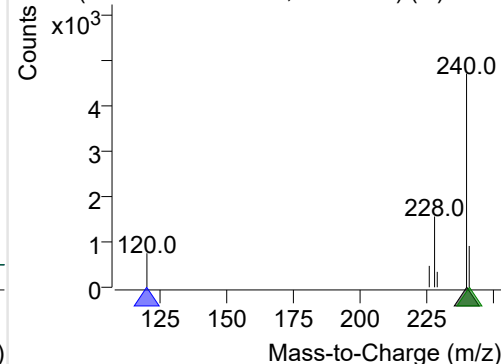
+ Selected Ion (240.0) 221107-PAHs-007.D



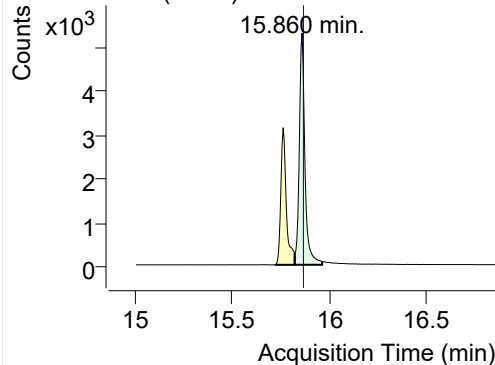
240.0, 120.0, 241.0



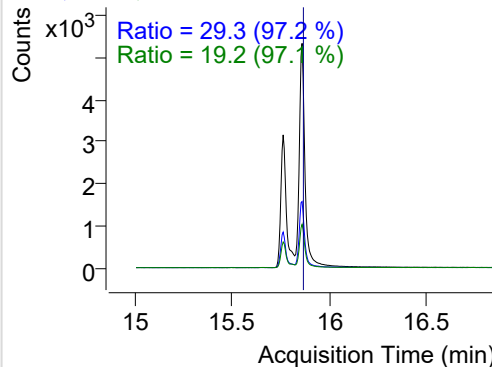
+ SIM (15.762-15.914 min, 29 scans) (**) 2211

**Chrysene**

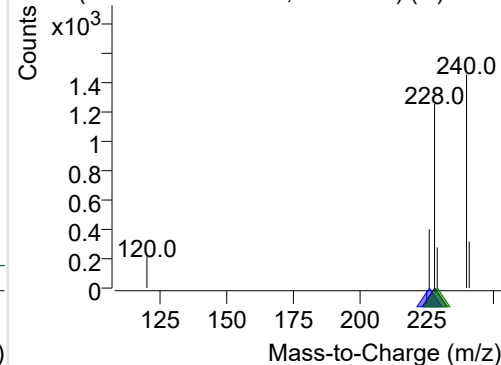
+ Selected Ion (228.0) 221107-PAHs-007.D



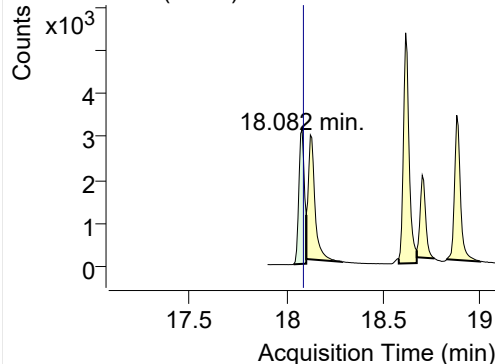
228.0, 226.0, 229.0



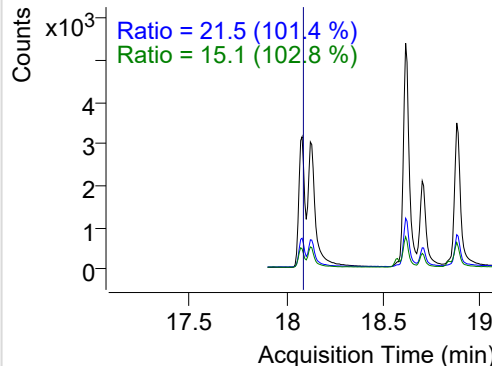
+ SIM (15.822-15.963 min, 27 scans) (**) 2211

**Benzo(b)fluoranthene**

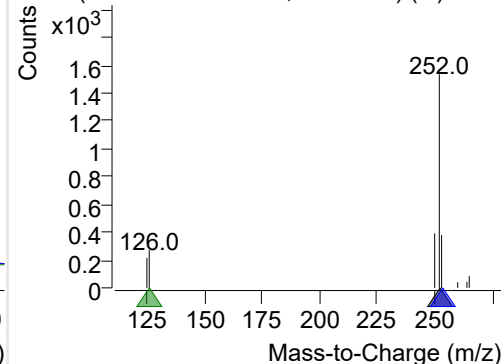
+ Selected Ion (252.0) 221107-PAHs-007.D



252.0, 253.0, 126.0

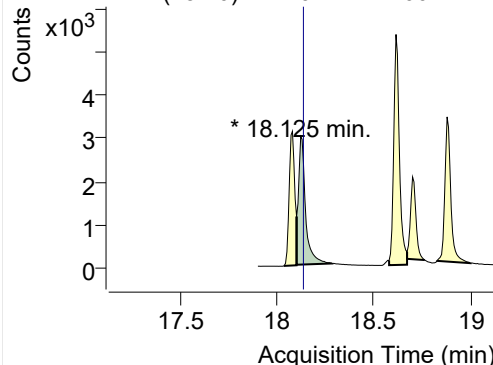


+ SIM (18.038-18.103 min, 10 scans) (**) 2211

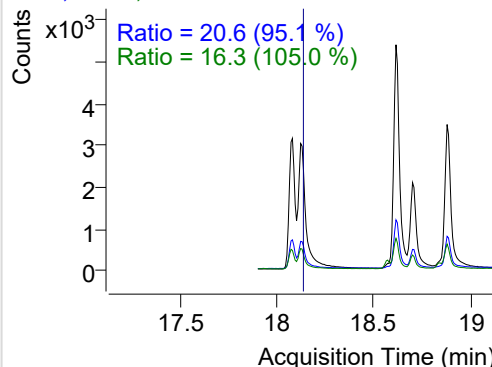


Benzo(k)fluoranthene

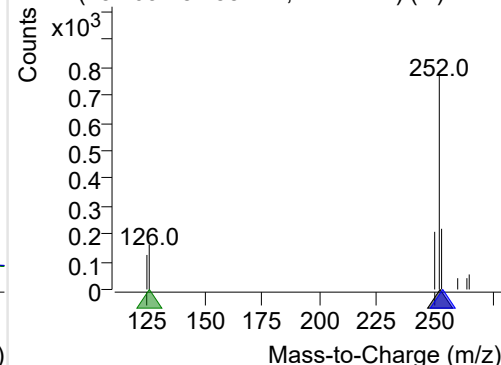
+ Selected Ion (252.0) 221107-PAHs-007.D



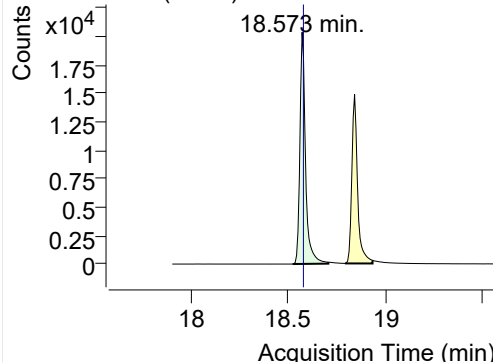
252.0, 253.0, 126.0



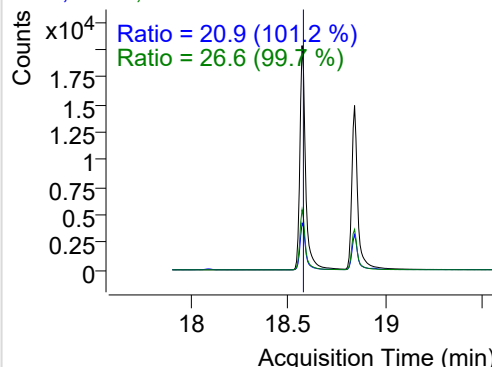
+ SIM (18.103-18.288 min, 27 scans) (**) 2211

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

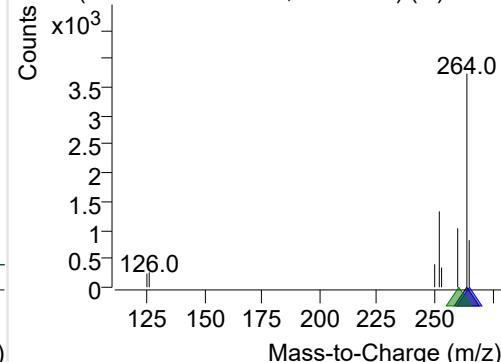
+ Selected Ion (264.0) 221107-PAHs-007.D



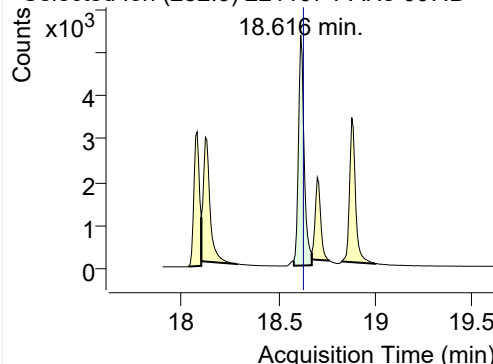
264.0, 265.0, 260.0



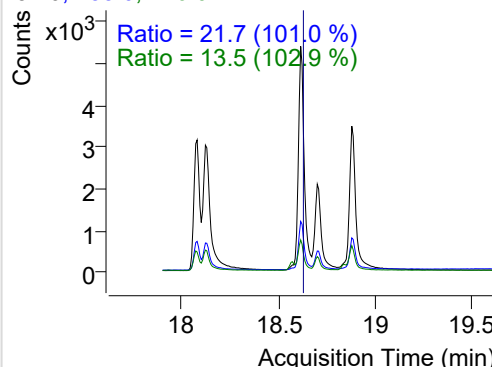
+ SIM (18.524-18.708 min, 26 scans) (**) 2211

**Benzo(e)pyrene**

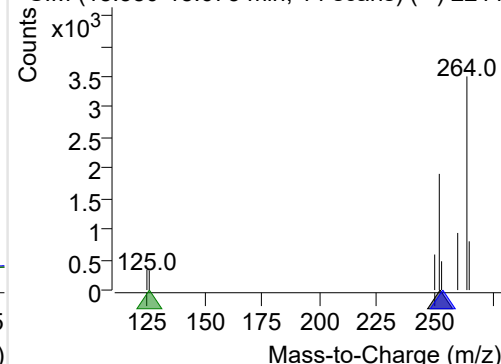
+ Selected Ion (252.0) 221107-PAHs-007.D



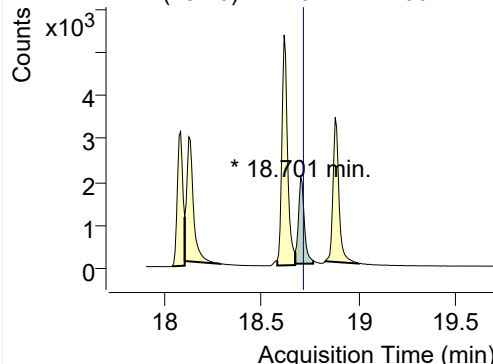
252.0, 253.0, 126.0



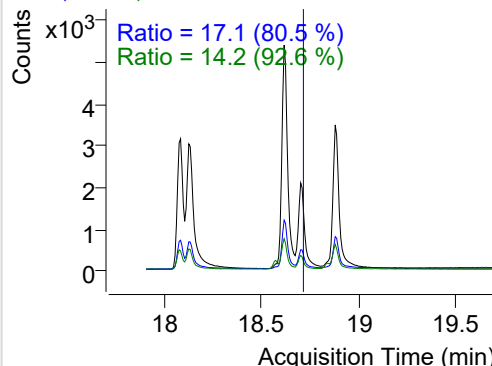
+ SIM (18.580-18.673 min, 14 scans) (**) 2211

**Benzo(a)pyrene**

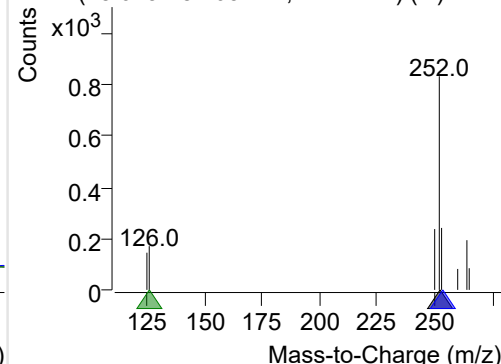
+ Selected Ion (252.0) 221107-PAHs-007.D



252.0, 253.0, 126.0

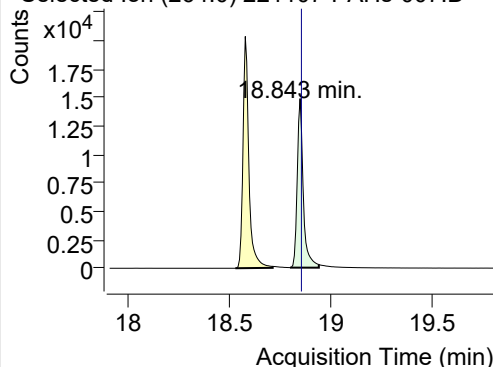


+ SIM (18.673-18.765 min, 14 scans) (**) 2211

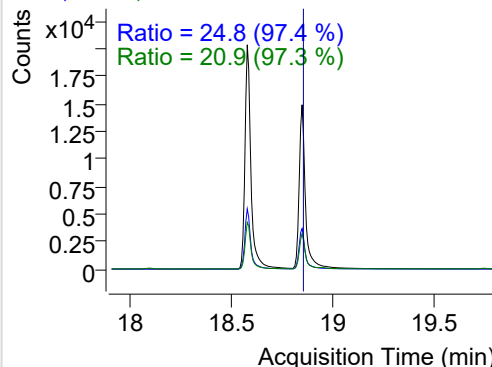


IS-D12-Perylene

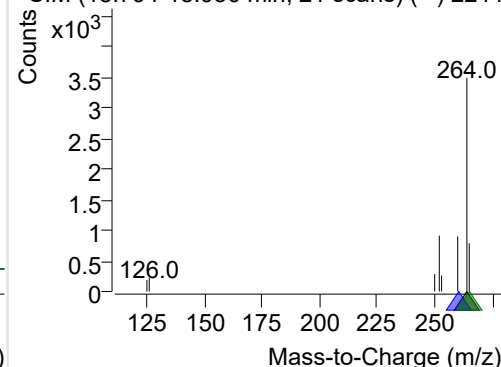
+ Selected Ion (264.0) 221107-PAHs-007.D



264.0, 260.0, 265.0

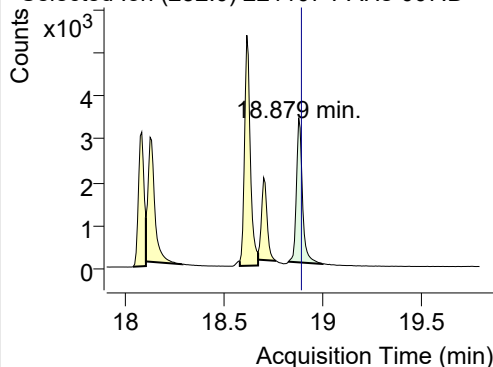


+ SIM (18.794-18.936 min, 21 scans) (**) 2211

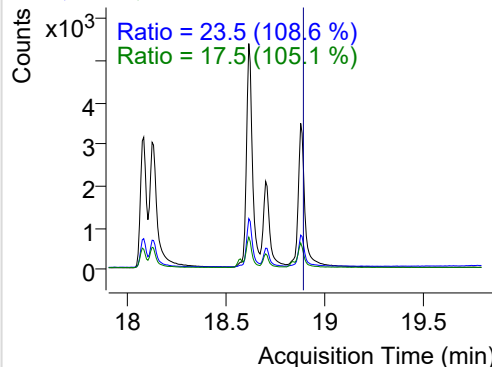


Perylene

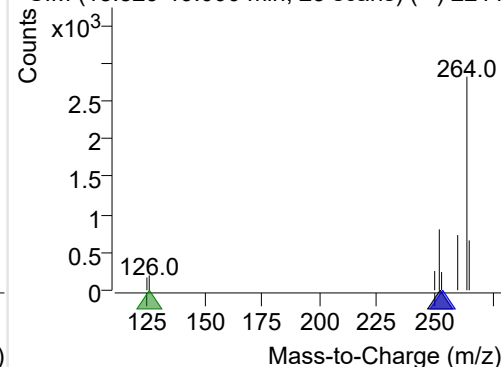
+ Selected Ion (252.0) 221107-PAHs-007.D



252.0, 253.0, 126.0

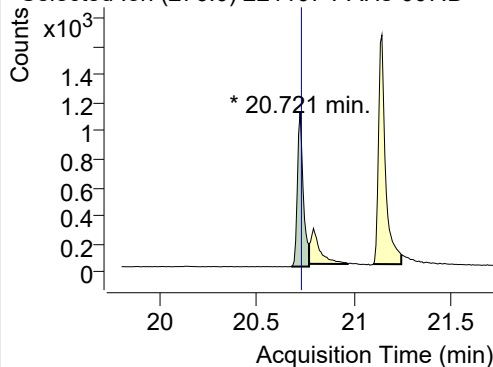


+ SIM (18.829-19.000 min, 25 scans) (**) 2211

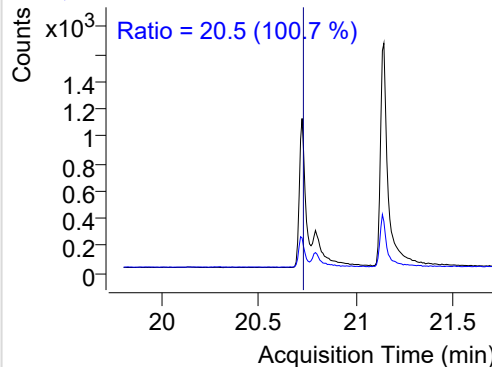


Indeno(1,2,3-c,d)pyrene

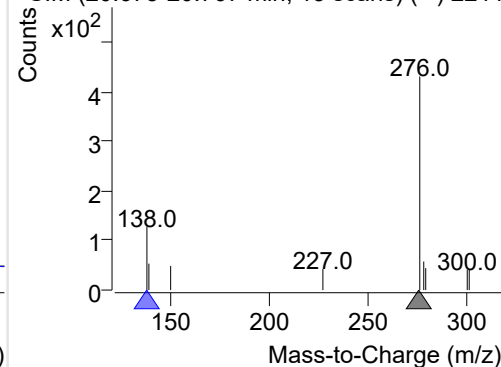
+ Selected Ion (276.0) 221107-PAHs-007.D



276.0, 138.0

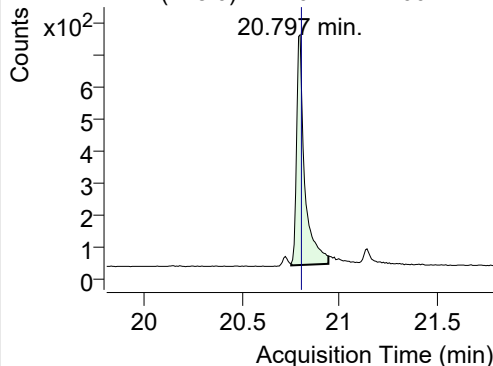


+ SIM (20.675-20.767 min, 13 scans) (**) 2211

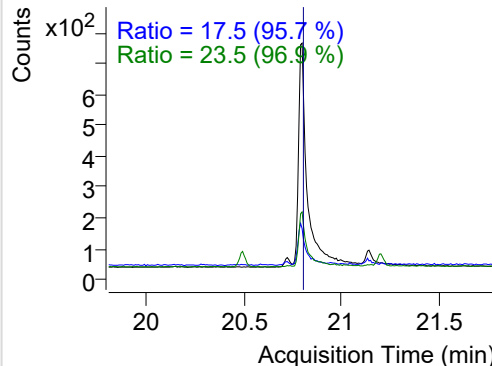


Dibenz(a,h)anthracene

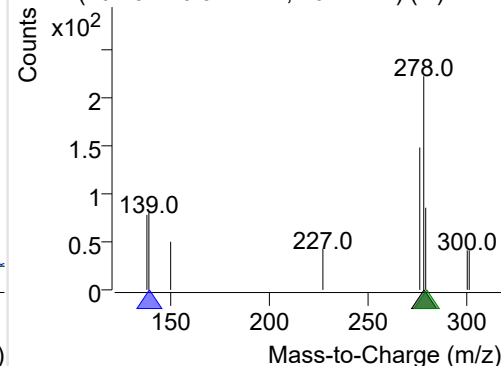
+ Selected Ion (278.0) 221107-PAHs-007.D



278.0, 139.0, 279.0

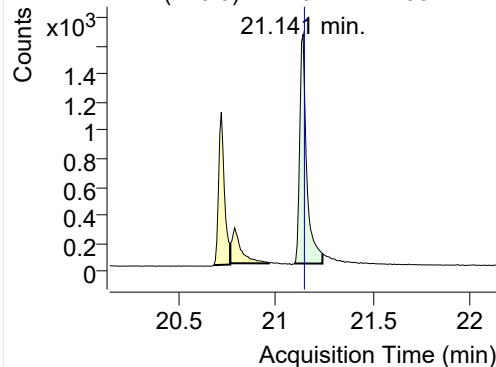


+ SIM (20.751-20.942 min, 26 scans) (**) 2211

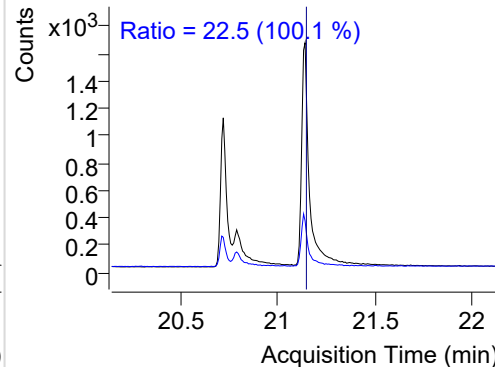


Benzo(g,h,i)perylene

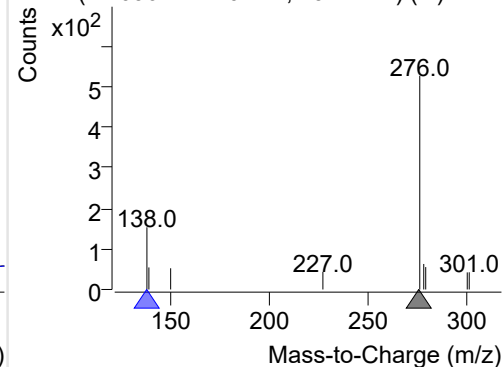
+ Selected Ion (276.0) 221107-PAHs-007.D



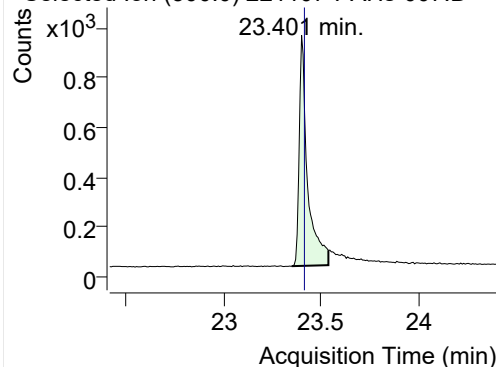
276.0, 138.0



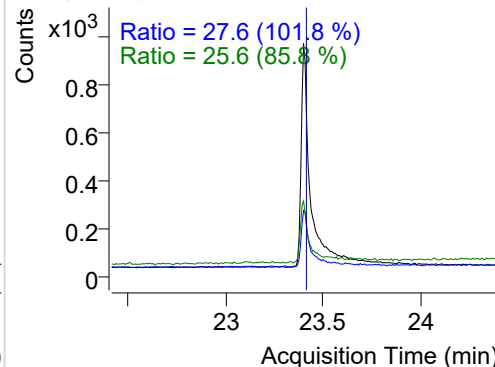
+ SIM (21.096-21.240 min, 19 scans) (**) 2211

**Coronene**

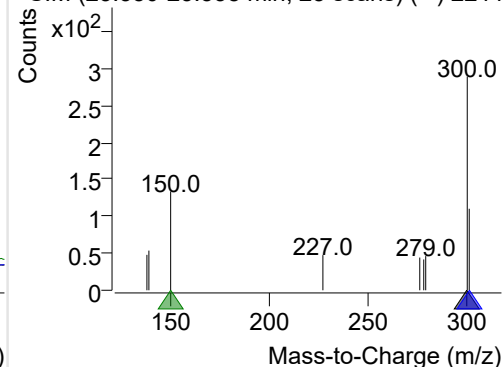
+ Selected Ion (300.0) 221107-PAHs-007.D



300.0, 301.0, 150.0



+ SIM (23.350-23.538 min, 25 scans) (**) 2211



Quantitative Analysis Sample Based Report

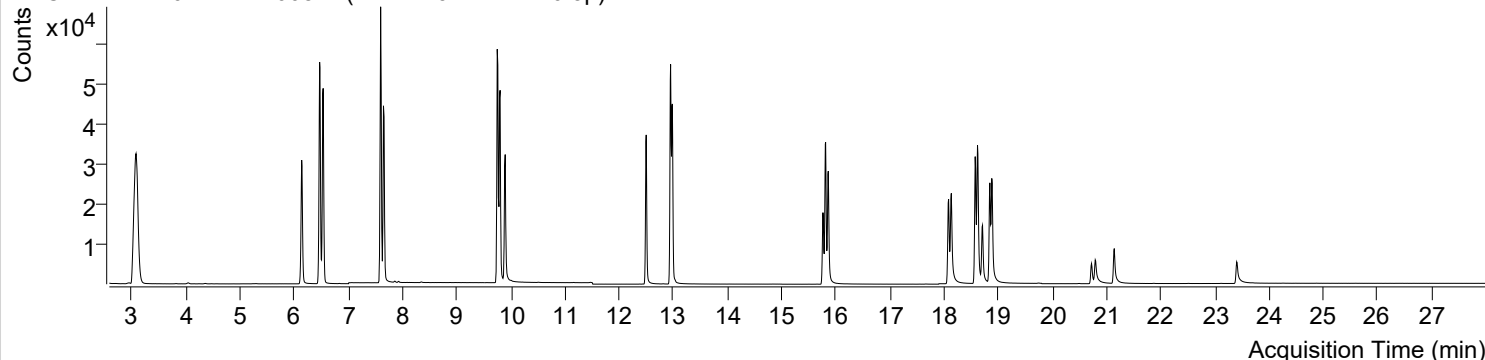


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-07 오후 7:38:28	Data File	221107-PAHs-008.D
Type	Sample	Name	PAHs-19mix-STD-0.5p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

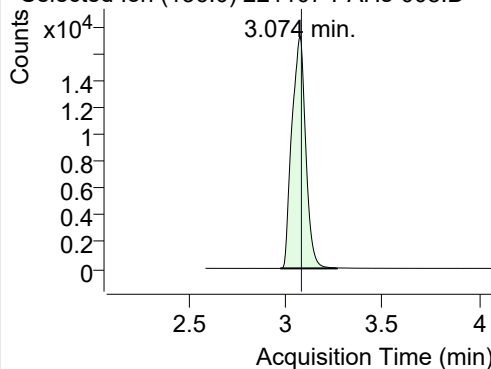
+ TIC SIM 221107-PAHs-008.D (PAHs-19mix-STD-0.5p)



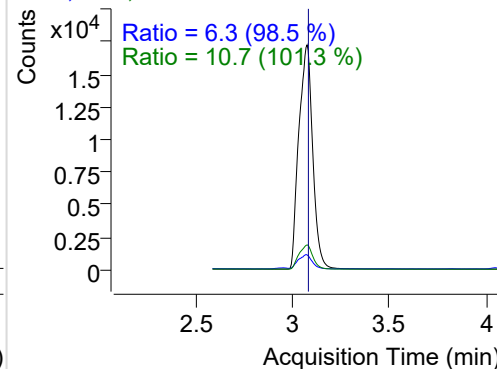
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	85268	17238.70	ND ng/ml	10.7
Naphthalene	3.101	128.0	60068	12342.54	ND ng/ml	13.0
Acenaphthylene	6.138	152.0	44816	23145.45	ND ng/ml	19.7
IS-D10-Acenaphthene	6.469	164.0	47510	25921.46	ND ng/ml	99.0
Acenaphthene	6.534	154.0	31529	17330.51	ND ng/ml	108.7
LSS-D10-Fluorene	7.596	176.0	50014	30373.83	ND ng/ml	95.2
Fluorene	7.648	166.0	37723	20500.99	ND ng/ml	93.6
IS-D10-Phenanthrene	9.749	188.0	81910	45221.77	ND ng/ml	14.7
Phenanthrene	9.801	178.0	54155	31257.38	ND ng/ml	19.4
Anthracene	9.896	178.0	39598	21461.34	ND ng/ml	18.7
Fluoranthene	12.499	202.0	47087	28880.55	ND ng/ml	17.1
LSS-D10-Pyrene	12.949	212.0	63342	40139.70	ND ng/ml	18.7
Pyrene	12.982	202.0	56988	33074.93	ND ng/ml	17.0
Benz(a)anthracene	15.762	228.0	23432	12220.28	ND ng/ml	26.6
IS-D12-Chrysene	15.811	240.0	48029	25685.42	ND ng/ml	18.8
Chrysene	15.860	228.0	35404	18123.83	ND ng/ml	29.6
Benzo(b)fluoranthene	18.082	252.0	23756	12455.50	ND ng/ml	21.4
Benzo(k)fluoranthene	18.132	252.0	33376	13336.60	ND ng/ml	21.7
SS-D12-Benzo(e)pyrene	18.573	264.0	42818	21144.82	ND ng/ml	26.6
Benzo(e)pyrene	18.616	252.0	36929	17506.11	ND ng/ml	21.5
Benzo(a)pyrene	18.708	252.0	18408	8198.70	ND ng/ml	20.9
IS-D12-Perylene	18.844	264.0	32946	16440.77	ND ng/ml	25.7
Perylene	18.879	252.0	26744	12471.59	ND ng/ml	21.4
Indeno(1,2,3-c,d)pyrene	20.721	276.0	9274	4063.18	ND ng/ml	19.4
Dibenz(a,h)anthracene	20.790	278.0	9323	3044.52	ND ng/ml	22.6
Benzo(g,h,i)perylene	21.141	276.0	17782	6947.28	ND ng/ml	22.2
Coronene	23.401	300.0	11745	3496.14	ND ng/ml	28.0

IS-D8-Naphthalene

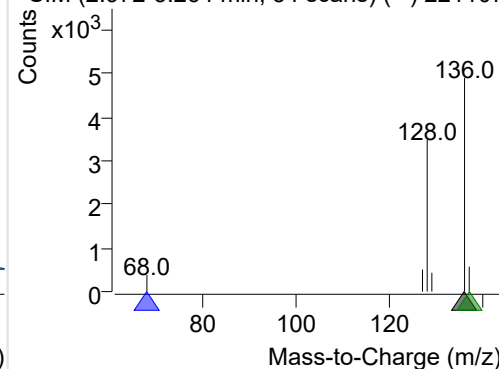
+ Selected Ion (136.0) 221107-PAHs-008.D



136.0, 68.0, 137.0

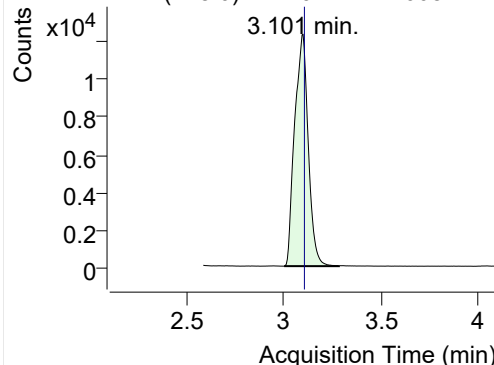


+ SIM (2.972-3.264 min, 54 scans) (**) 221107

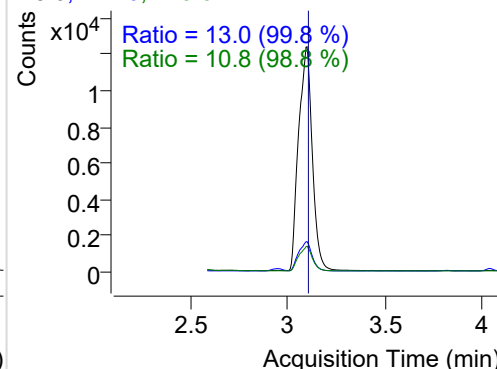


Naphthalene

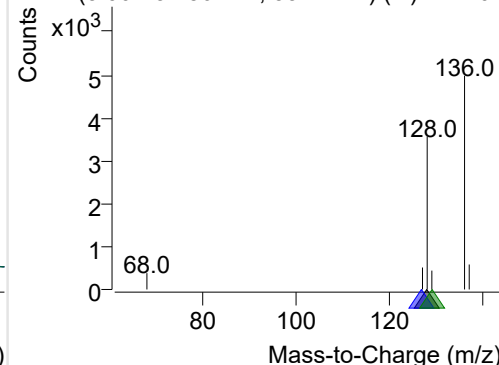
+ Selected Ion (128.0) 221107-PAHs-008.D



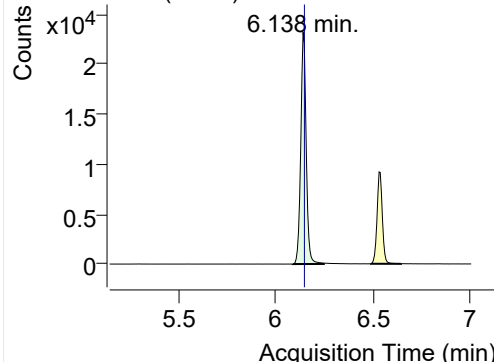
128.0, 127.0, 129.0



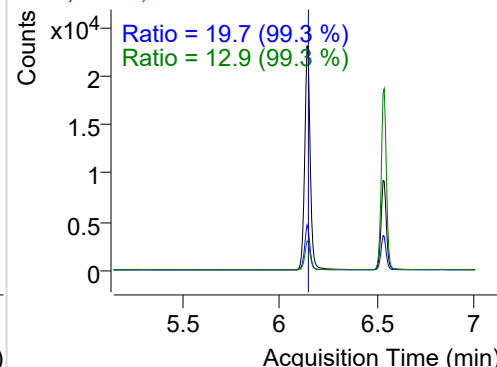
+ SIM (3.004-3.286 min, 53 scans) (**) 221107

**Acenaphthylene**

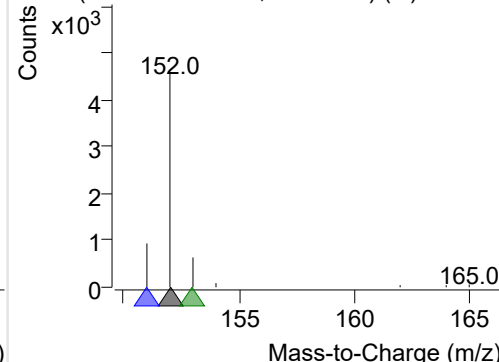
+ Selected Ion (152.0) 221107-PAHs-008.D



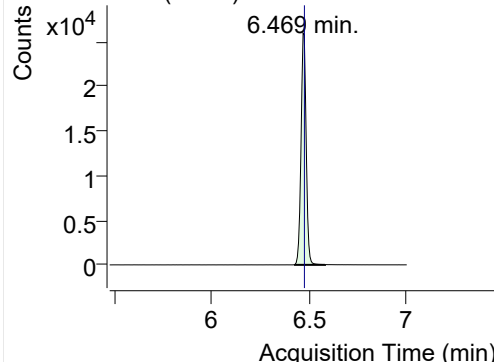
152.0, 151.0, 153.0



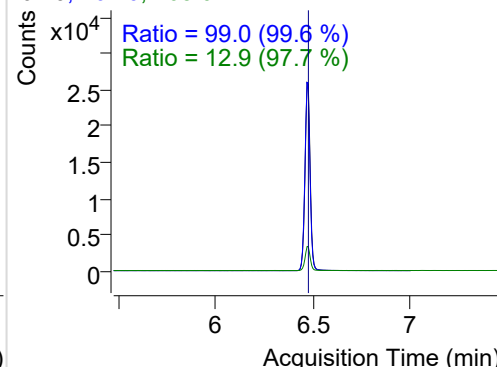
+ SIM (6.084-6.244 min, 28 scans) (**) 221107

**IS-D10-Acenaphthene**

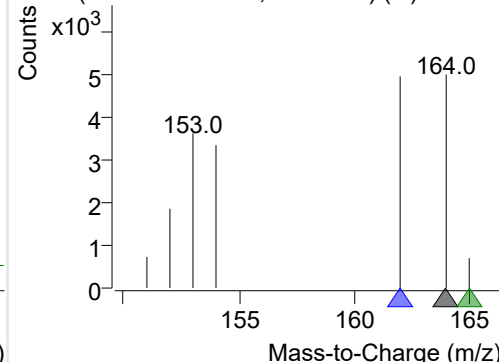
+ Selected Ion (164.0) 221107-PAHs-008.D



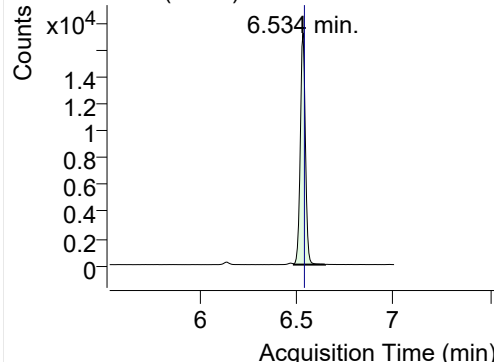
164.0, 162.0, 165.0



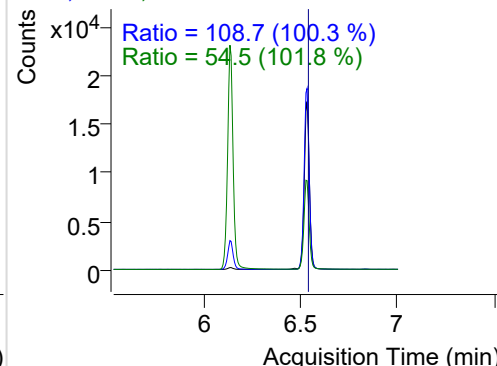
+ SIM (6.428-6.582 min, 27 scans) (**) 221107

**Acenaphthene**

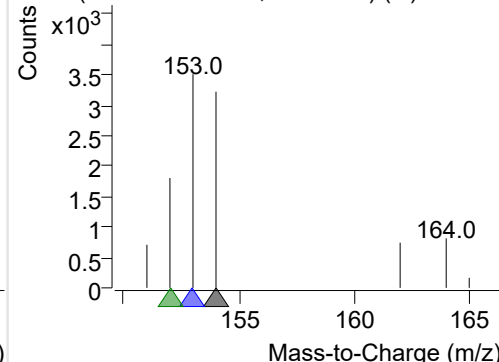
+ Selected Ion (154.0) 221107-PAHs-008.D



154.0, 153.0, 152.0

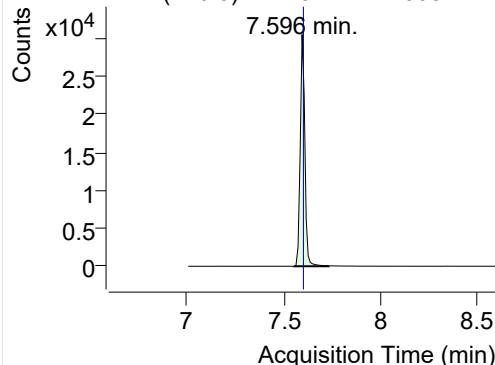


+ SIM (6.487-6.647 min, 28 scans) (**) 221107

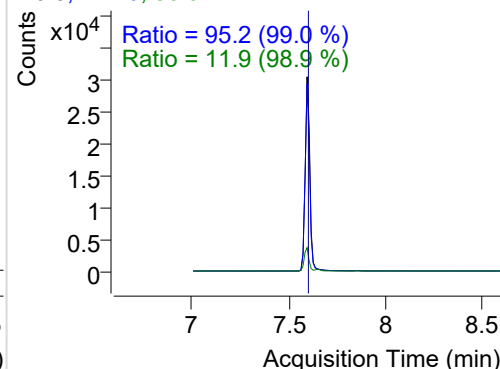


LSS-D10-Fluorene

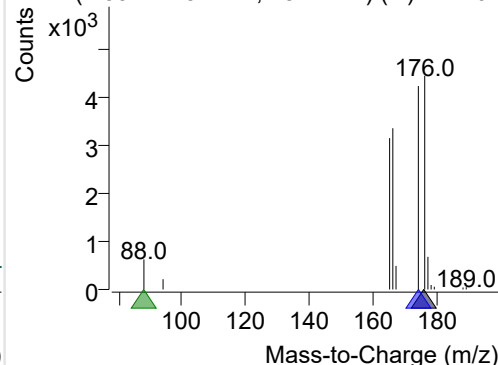
+ Selected Ion (176.0) 221107-PAHs-008.D



176.0, 174.0, 88.0

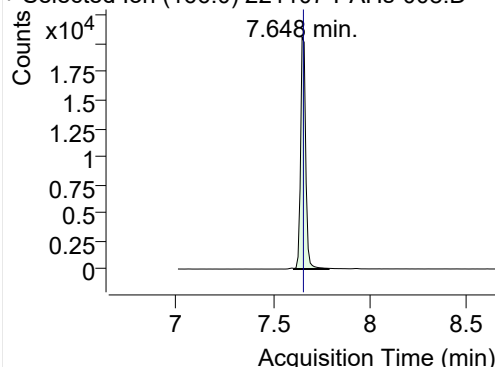


+ SIM (7.554-7.732 min, 18 scans) (**) 221107

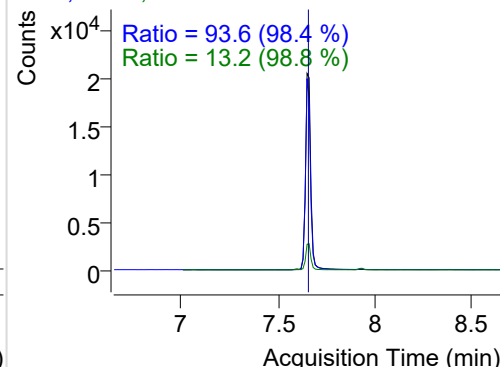


Fluorene

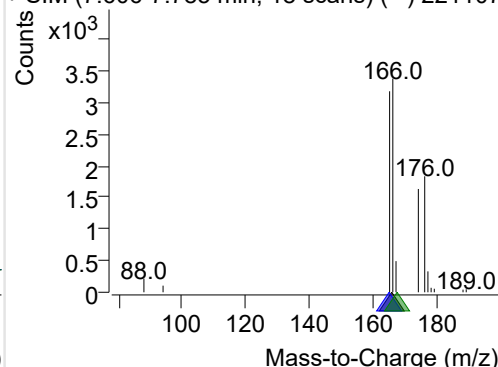
+ Selected Ion (166.0) 221107-PAHs-008.D



166.0, 165.0, 167.0

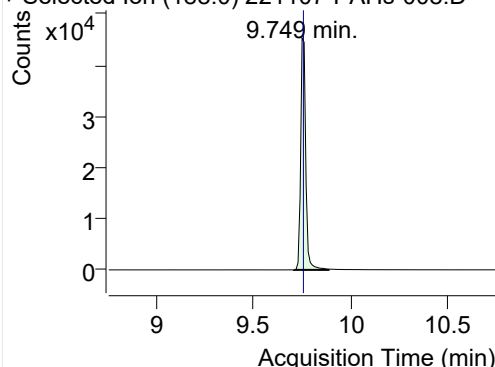


+ SIM (7.606-7.785 min, 18 scans) (**) 221107

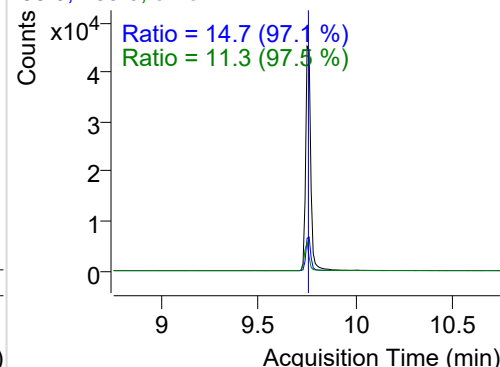


IS-D10-Phenanthrene

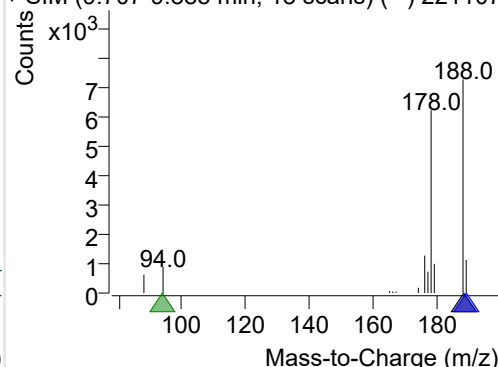
+ Selected Ion (188.0) 221107-PAHs-008.D



188.0, 189.0, 94.0

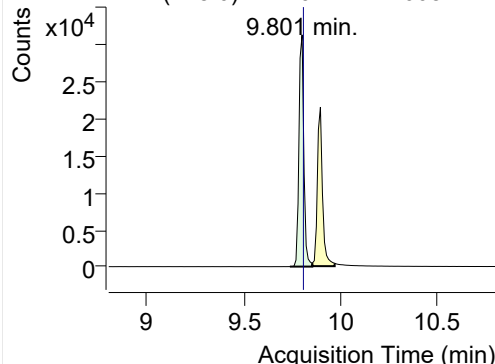


+ SIM (9.707-9.885 min, 18 scans) (**) 221107

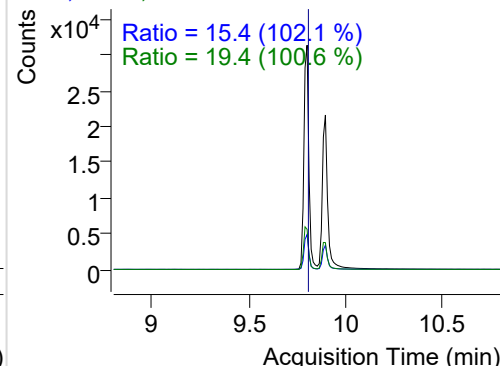


Phenanthrene

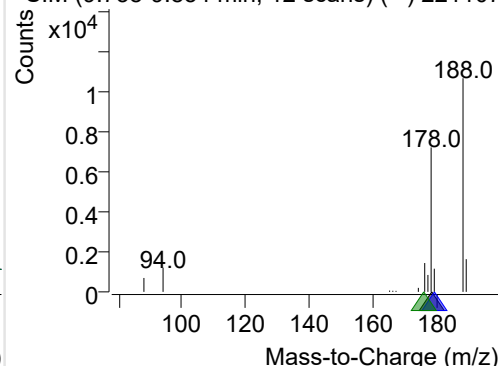
+ Selected Ion (178.0) 221107-PAHs-008.D



178.0, 179.0, 176.0

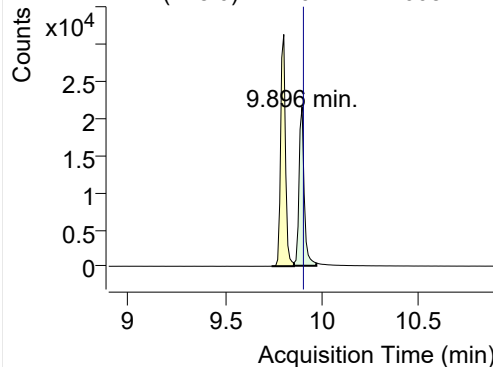


+ SIM (9.738-9.854 min, 12 scans) (**) 221107

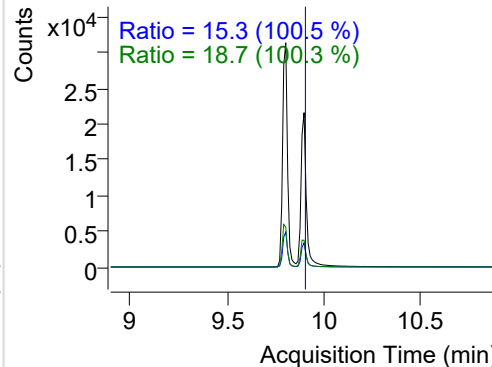


Anthracene

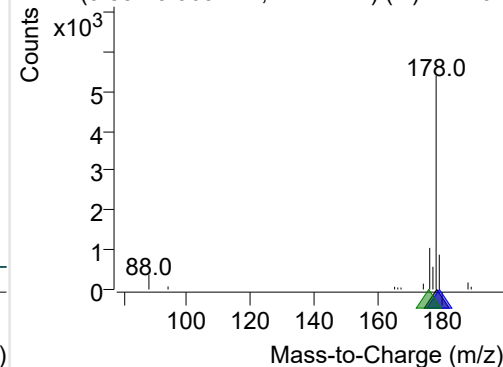
+ Selected Ion (178.0) 221107-PAHs-008.D



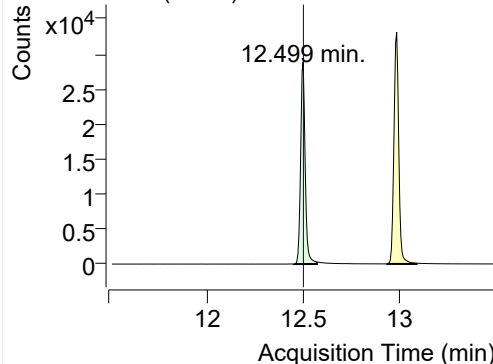
178.0, 179.0, 176.0



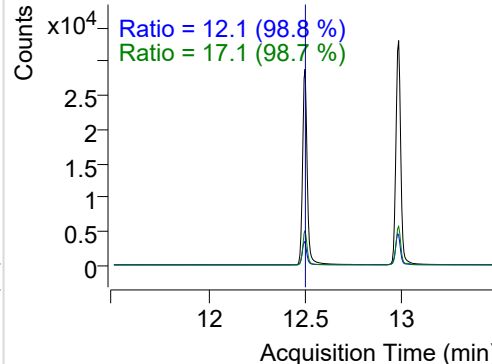
+ SIM (9.854-9.969 min, 12 scans) (**) 221107

**Fluoranthene**

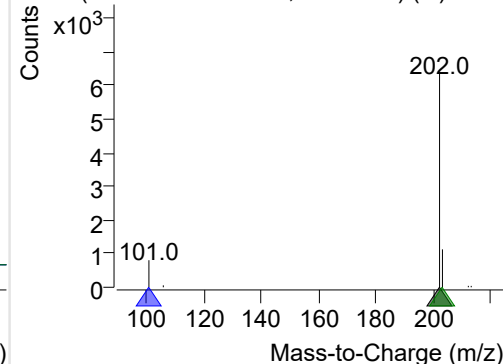
+ Selected Ion (202.0) 221107-PAHs-008.D



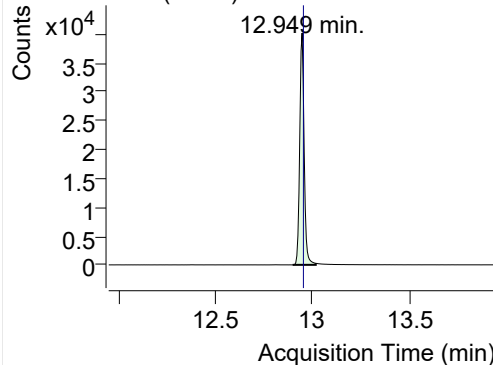
202.0, 101.0, 203.0



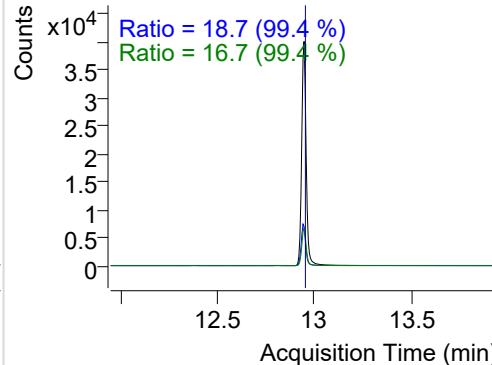
+ SIM (12.450-12.570 min, 23 scans) (**) 2211

**LSS-D10-Pyrene**

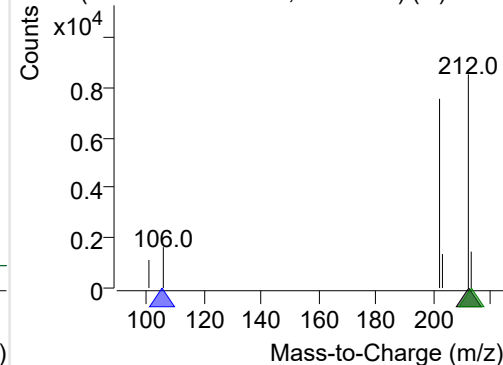
+ Selected Ion (212.0) 221107-PAHs-008.D



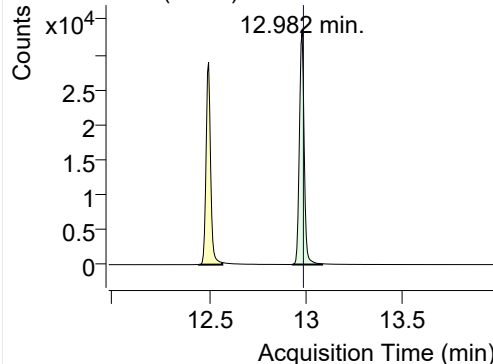
212.0, 106.0, 213.0



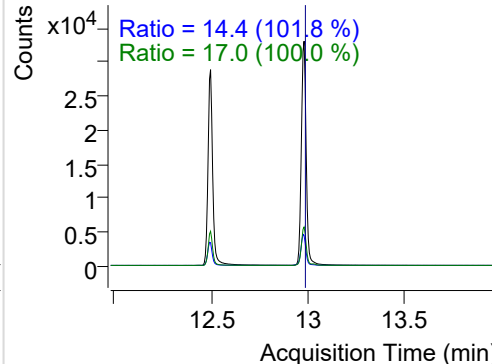
+ SIM (12.900-13.020 min, 23 scans) (**) 2211

**Pyrene**

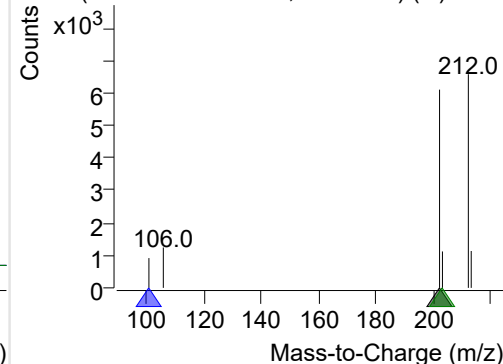
+ Selected Ion (202.0) 221107-PAHs-008.D



202.0, 101.0, 203.0

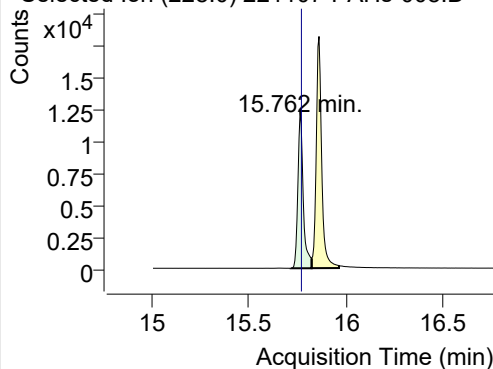


+ SIM (12.933-13.085 min, 29 scans) (**) 2211

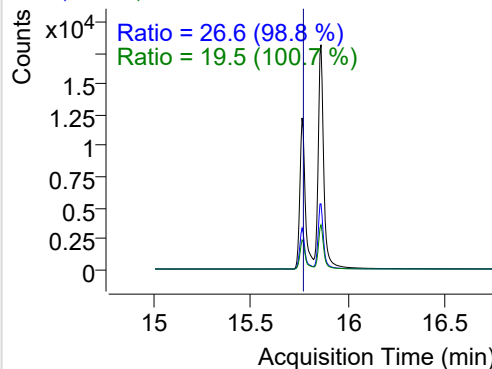


Benz(a)anthracene

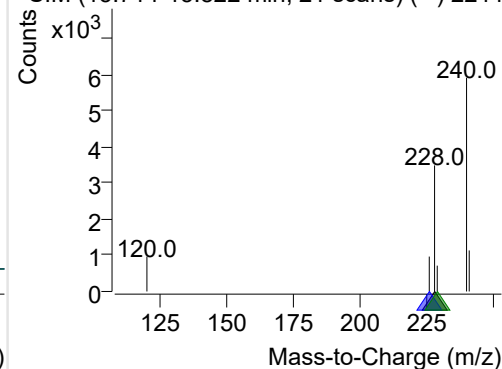
+ Selected Ion (228.0) 221107-PAHs-008.D



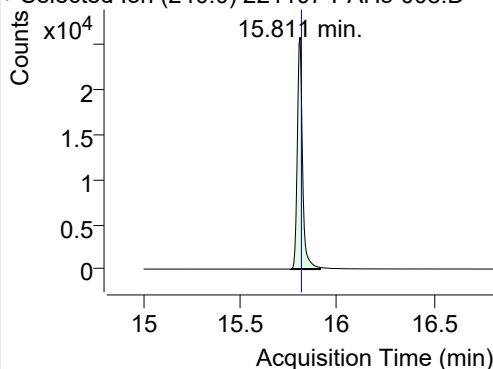
228.0, 226.0, 229.0



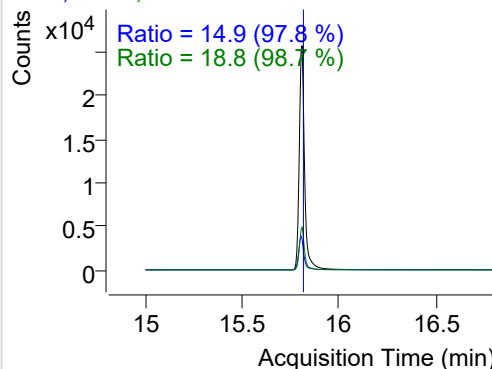
+ SIM (15.714-15.822 min, 21 scans) (**) 2211

**IS-D12-Chrysene**

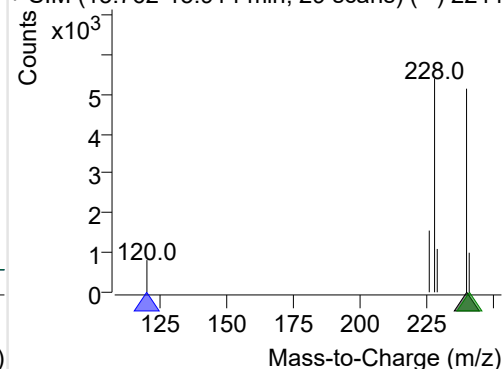
+ Selected Ion (240.0) 221107-PAHs-008.D



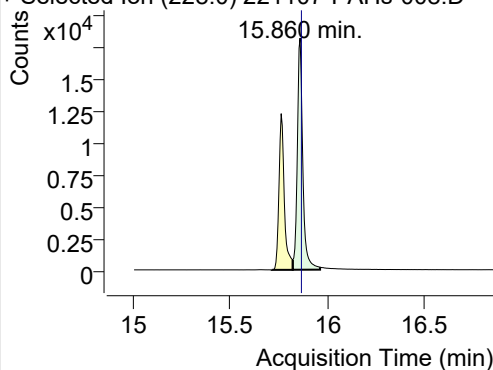
240.0, 120.0, 241.0



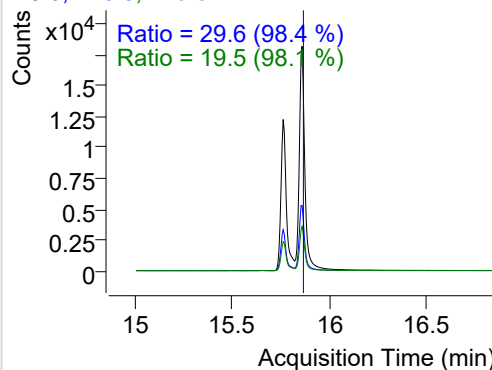
+ SIM (15.762-15.914 min, 29 scans) (**) 2211

**Chrysene**

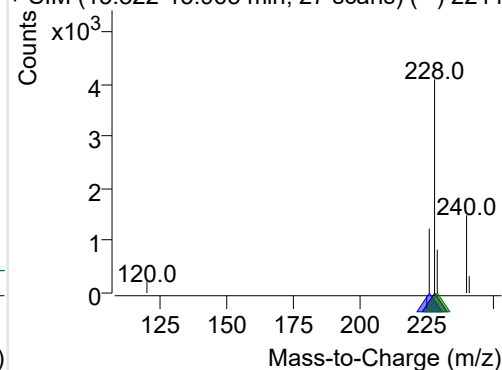
+ Selected Ion (228.0) 221107-PAHs-008.D



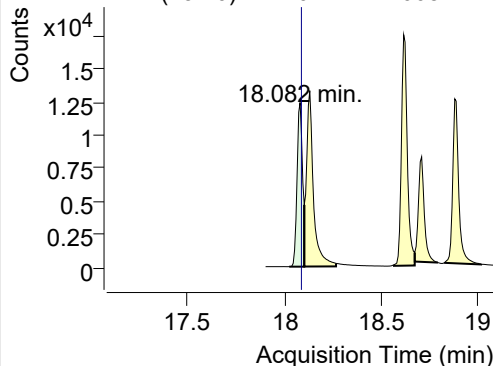
228.0, 226.0, 229.0



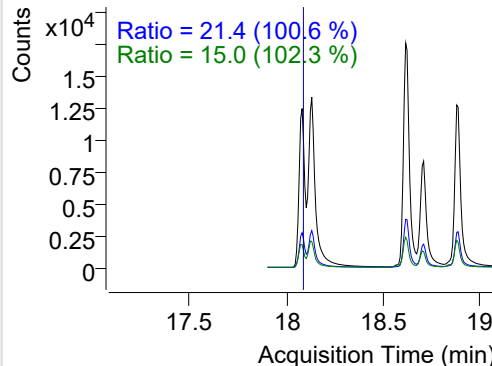
+ SIM (15.822-15.963 min, 27 scans) (**) 2211

**Benzo(b)fluoranthene**

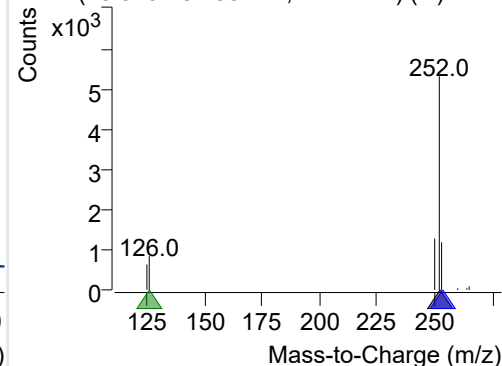
+ Selected Ion (252.0) 221107-PAHs-008.D



252.0, 253.0, 126.0

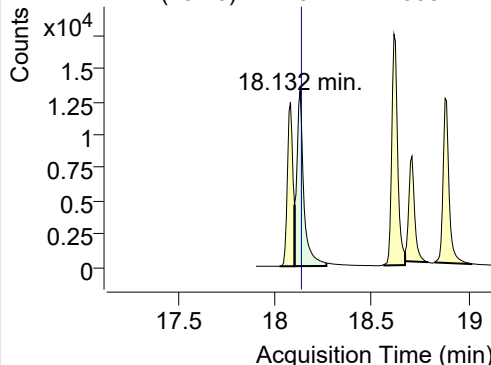


+ SIM (18.026-18.103 min, 11 scans) (**) 2211

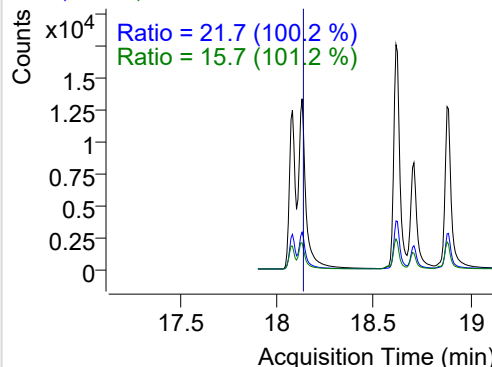


Benzo(k)fluoranthene

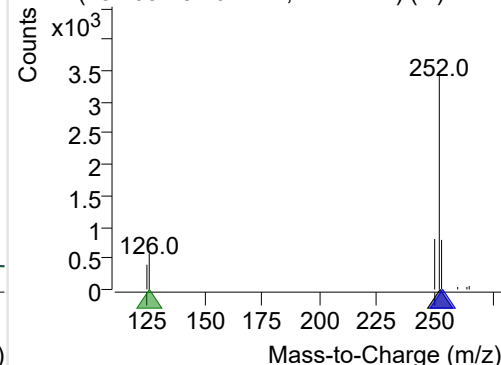
+ Selected Ion (252.0) 221107-PAHs-008.D



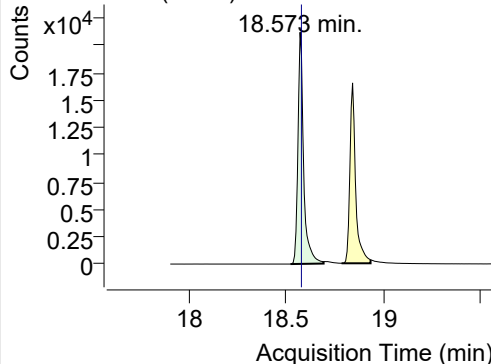
252.0, 253.0, 126.0



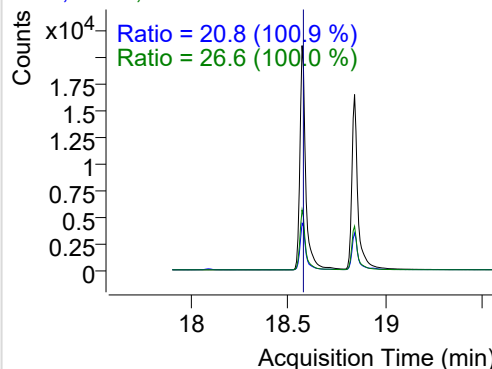
+ SIM (18.103-18.267 min, 24 scans) (**) 2211

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

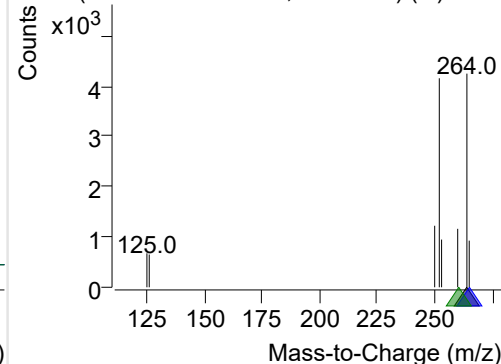
+ Selected Ion (264.0) 221107-PAHs-008.D



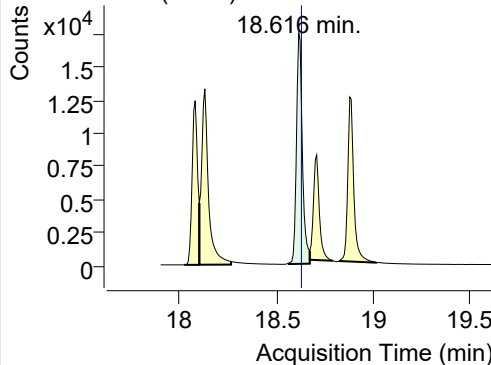
264.0, 265.0, 260.0



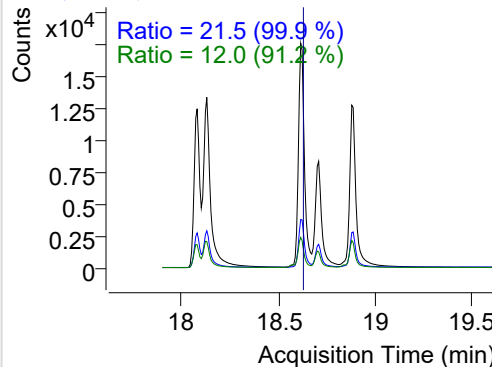
+ SIM (18.523-18.694 min, 24 scans) (**) 2211

**Benzo(e)pyrene**

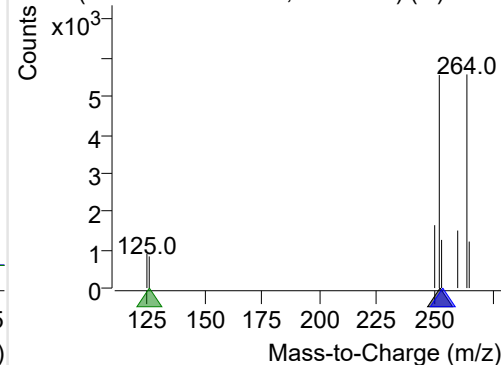
+ Selected Ion (252.0) 221107-PAHs-008.D



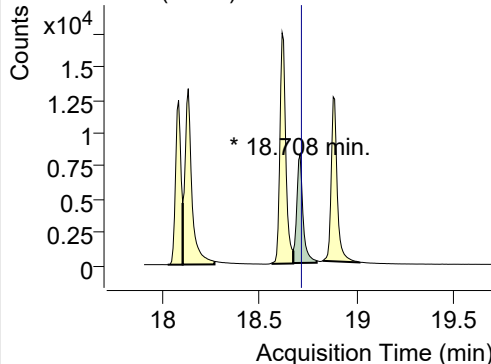
252.0, 253.0, 126.0



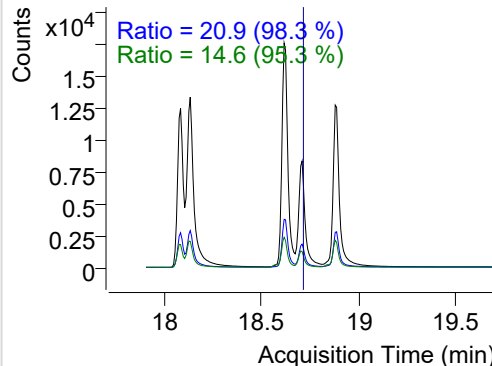
+ SIM (18.566-18.673 min, 16 scans) (**) 2211

**Benzo(a)pyrene**

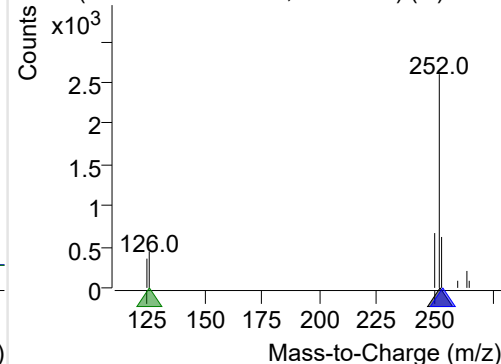
+ Selected Ion (252.0) 221107-PAHs-008.D



252.0, 253.0, 126.0

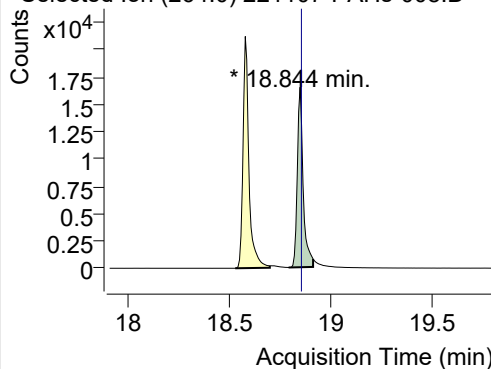


+ SIM (18.673-18.794 min, 18 scans) (**) 2211

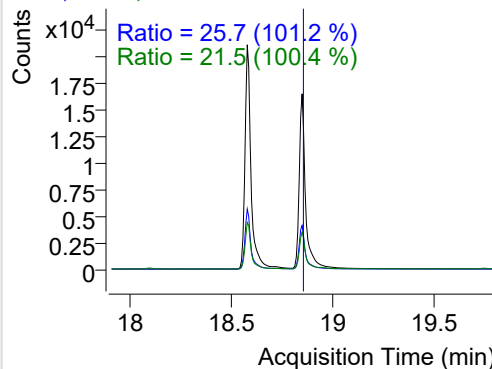


IS-D12-Perylene

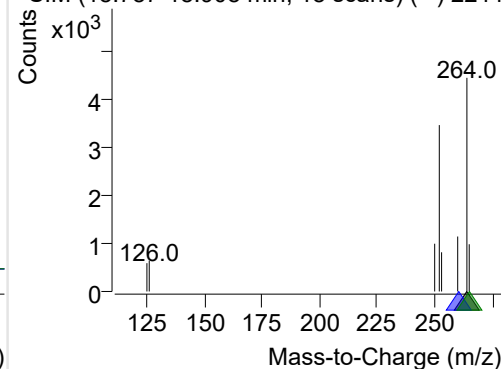
+ Selected Ion (264.0) 221107-PAHs-008.D



264.0, 260.0, 265.0

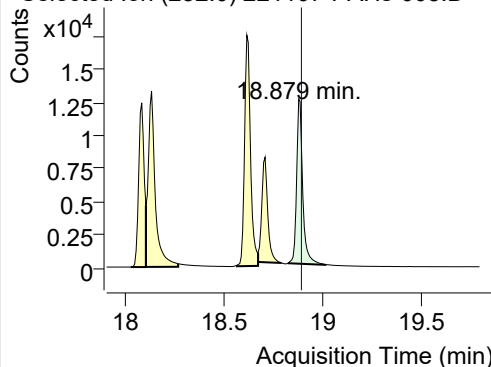


+ SIM (18.787-18.908 min, 18 scans) (**) 2211

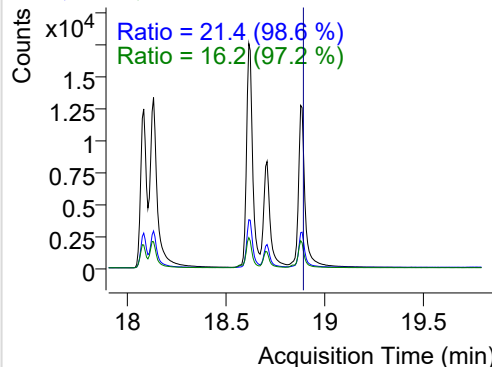


Perylene

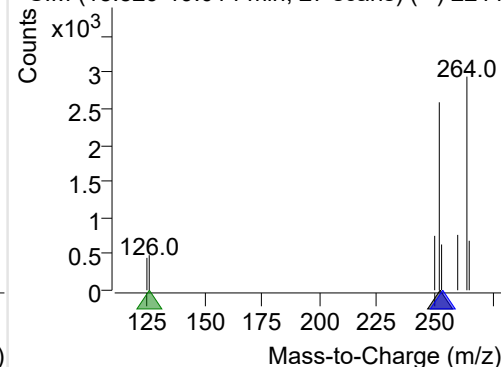
+ Selected Ion (252.0) 221107-PAHs-008.D



252.0, 253.0, 126.0

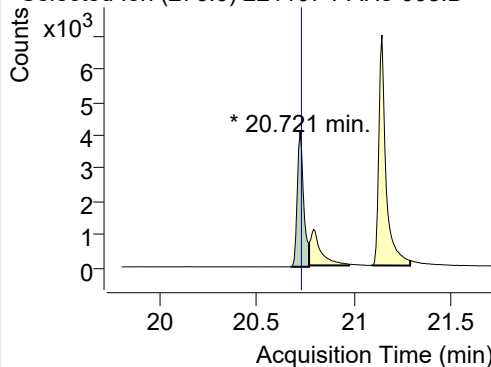


+ SIM (18.829-19.014 min, 27 scans) (**) 2211

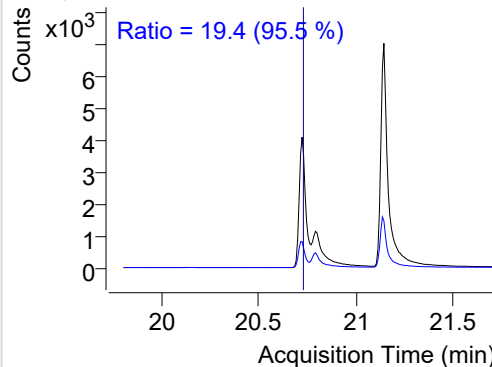


Indeno(1,2,3-c,d)pyrene

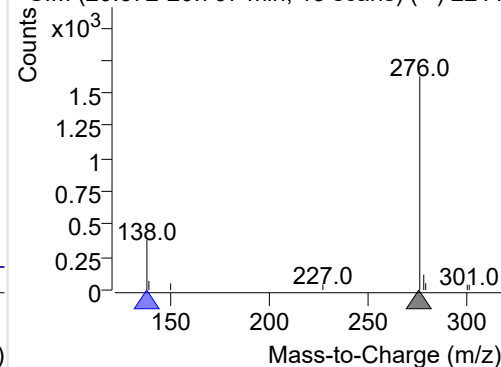
+ Selected Ion (276.0) 221107-PAHs-008.D



276.0, 138.0

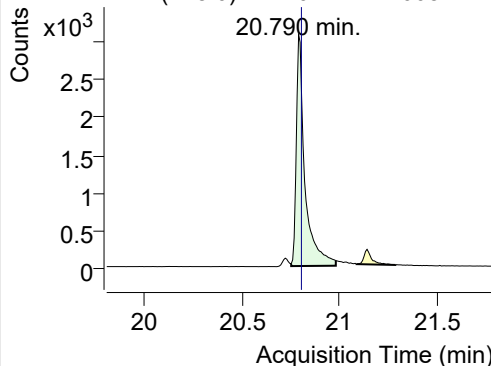


+ SIM (20.672-20.767 min, 13 scans) (**) 2211

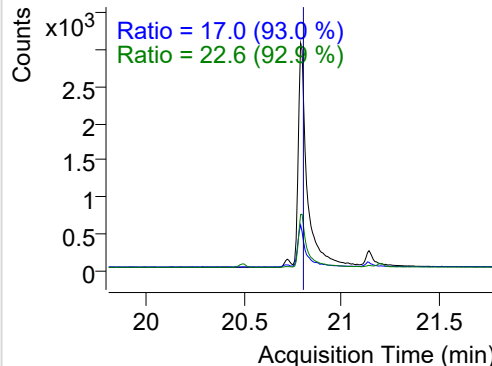


Dibenz(a,h)anthracene

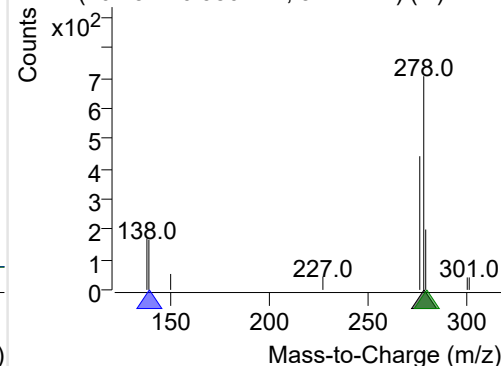
+ Selected Ion (278.0) 221107-PAHs-008.D



278.0, 139.0, 279.0

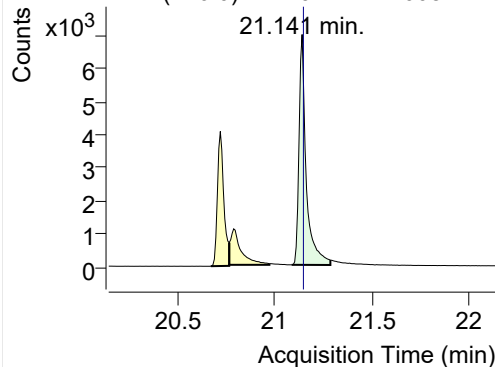


+ SIM (20.751-20.980 min, 31 scans) (**) 2211

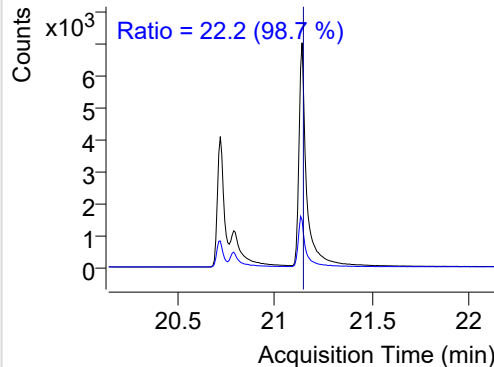


Benzo(g,h,i)perylene

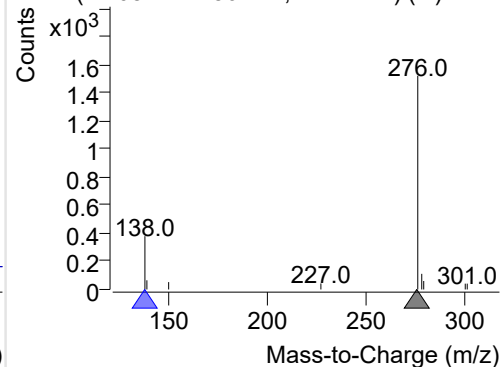
+ Selected Ion (276.0) 221107-PAHs-008.D



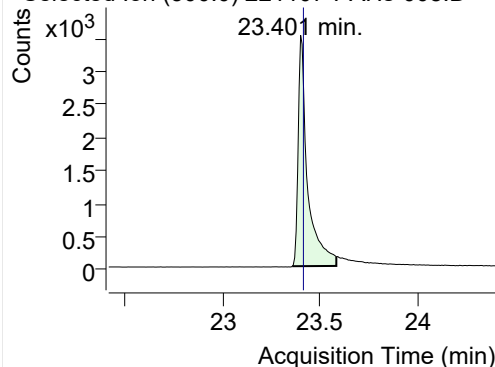
276.0, 138.0



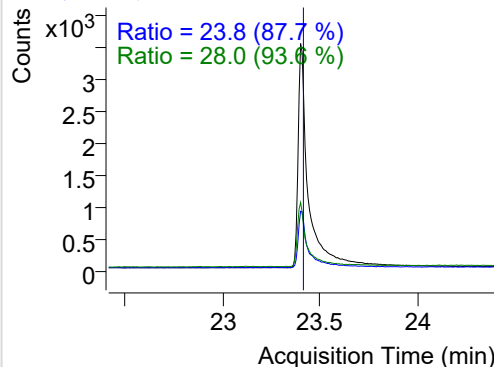
+ SIM (21.087-21.286 min, 27 scans) (**) 2211

**Coronene**

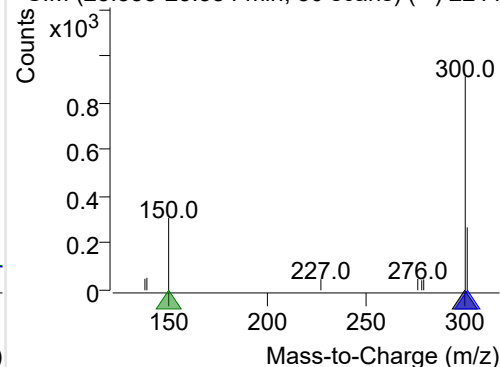
+ Selected Ion (300.0) 221107-PAHs-008.D



300.0, 301.0, 150.0



+ SIM (23.358-23.584 min, 30 scans) (**) 2211



Quantitative Analysis Sample Based Report

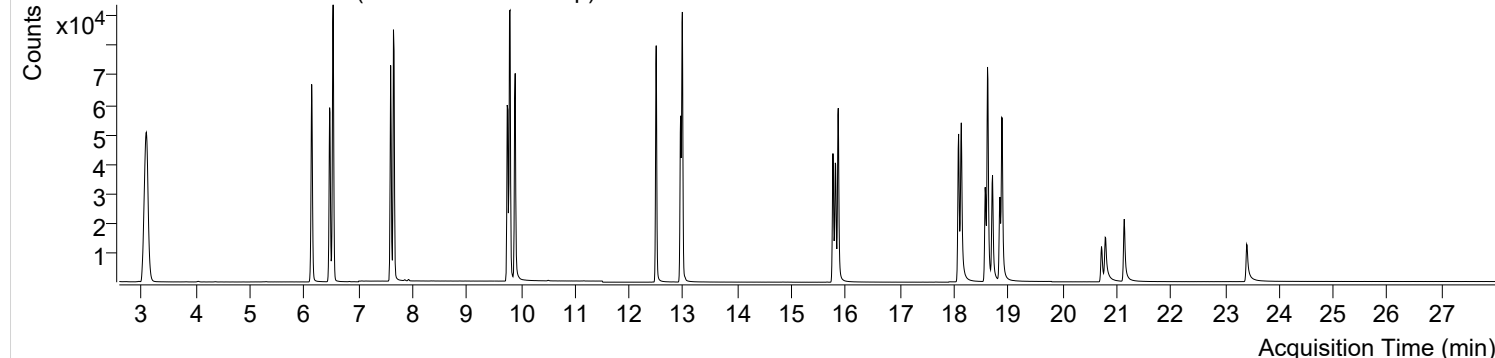


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-07 오후 8:09:36	Data File	221107-PAHs-009.D
Type	Sample	Name	PAHs-19mix-STD-1p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

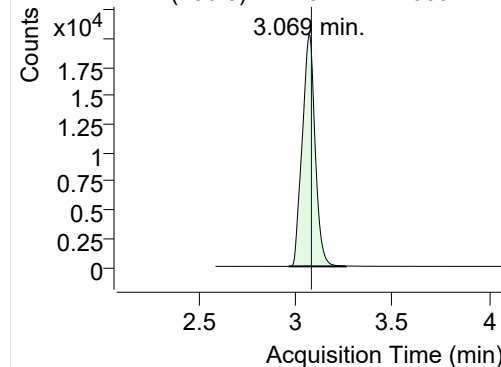
+ TIC SIM 221107-PAHs-009.D (PAHs-19mix-STD-1p)



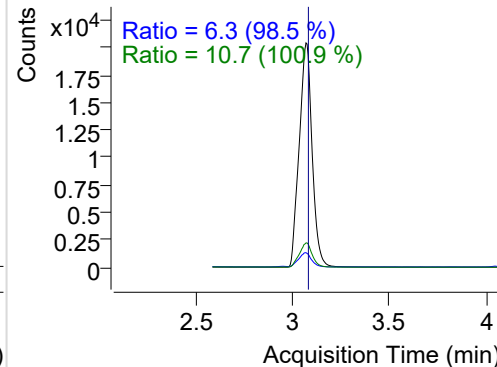
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	93743	20357.85	ND ng/ml	10.7
Naphthalene	3.096	128.0	119754	26629.13	ND ng/ml	12.9
Acenaphthylene	6.137	152.0	92847	49754.24	ND ng/ml	19.8
IS-D10-Acenaphthene	6.469	164.0	49225	27561.52	ND ng/ml	98.9
Acenaphthene	6.534	154.0	57728	33208.25	ND ng/ml	108.4
LSS-D10-Fluorene	7.596	176.0	50960	32012.07	ND ng/ml	95.5
Fluorene	7.648	166.0	71219	39755.46	ND ng/ml	93.8
IS-D10-Phenanthrene	9.759	188.0	83444	47173.32	ND ng/ml	14.9
Phenanthrene	9.801	178.0	104335	60305.01	ND ng/ml	19.4
Anthracene	9.895	178.0	80287	46906.65	ND ng/ml	18.9
Fluoranthene	12.499	202.0	97114	61966.02	ND ng/ml	17.2
LSS-D10-Pyrene	12.949	212.0	64644	40619.27	ND ng/ml	18.6
Pyrene	12.981	202.0	109019	68180.17	ND ng/ml	17.7
Benz(a)anthracene	15.762	228.0	53628	29693.53	ND ng/ml	26.8
IS-D12-Chrysene	15.811	240.0	53612	27988.79	ND ng/ml	18.7
Chrysene	15.860	228.0	72271	38405.60	ND ng/ml	29.5
Benzo(b)fluoranthene	18.082	252.0	52582	29619.63	ND ng/ml	21.4
Benzo(k)fluoranthene	18.132	252.0	74513	31534.68	ND ng/ml	21.7
SS-D12-Benzo(e)pyrene	18.573	264.0	44827	21142.64	ND ng/ml	26.8
Benzo(e)pyrene	18.616	252.0	75344	38112.04	ND ng/ml	21.5
Benzo(a)pyrene	18.708	252.0	45675	20562.43	ND ng/ml	20.3
IS-D12-Perylene	18.843	264.0	36911	18241.91	ND ng/ml	26.4
Perylene	18.886	252.0	61566	28800.15	ND ng/ml	20.8
Indeno(1,2,3-c,d)pyrene	20.721	276.0	21961	9487.31	ND ng/ml	19.5
Dibenz(a,h)anthracene	20.797	278.0	23408	7658.46	ND ng/ml	23.2
Benzo(g,h,i)perylene	21.141	276.0	41477	16660.60	ND ng/ml	22.1
Coronene	23.401	300.0	27082	8155.03	ND ng/ml	27.1

IS-D8-Naphthalene

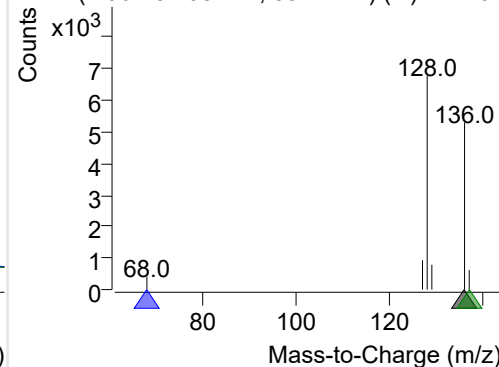
+ Selected Ion (136.0) 221107-PAHs-009.D



136.0, 68.0, 137.0

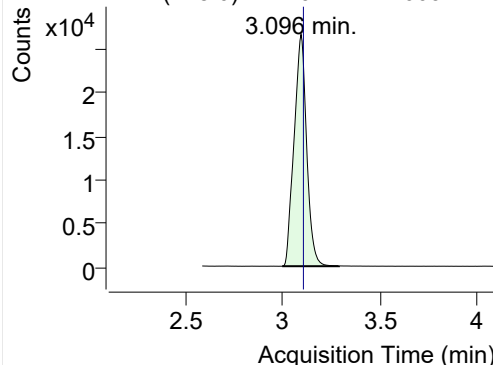


+ SIM (2.964-3.258 min, 55 scans) (**) 221107

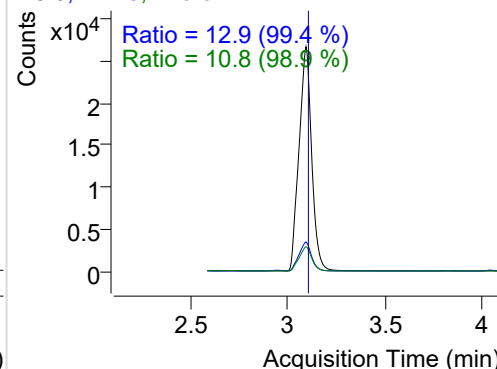


Naphthalene

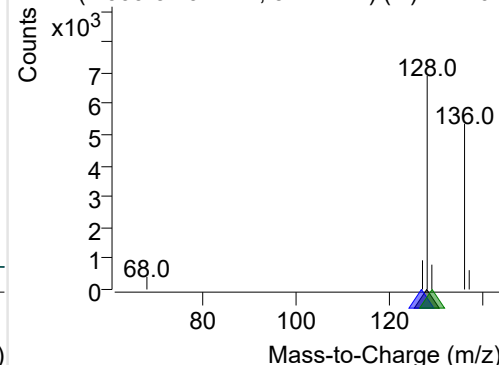
+ Selected Ion (128.0) 221107-PAHs-009.D



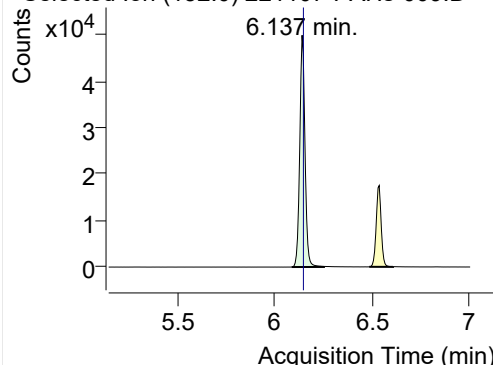
128.0, 127.0, 129.0



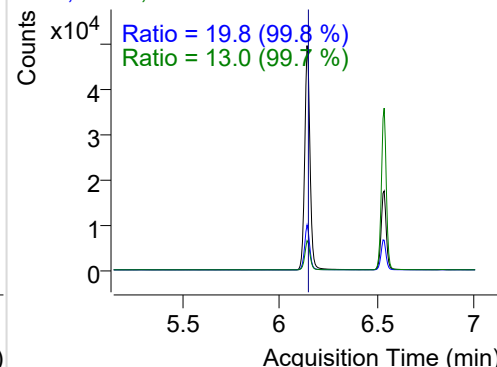
+ SIM (2.999-3.291 min, 54 scans) (**) 221107

**Acenaphthylene**

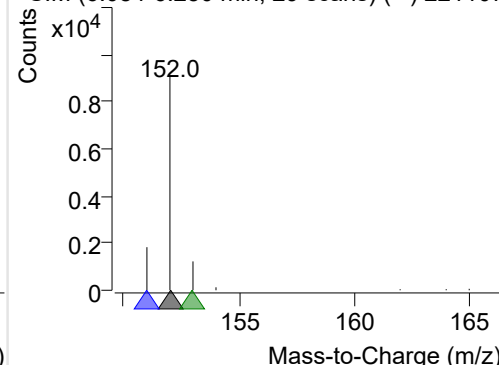
+ Selected Ion (152.0) 221107-PAHs-009.D



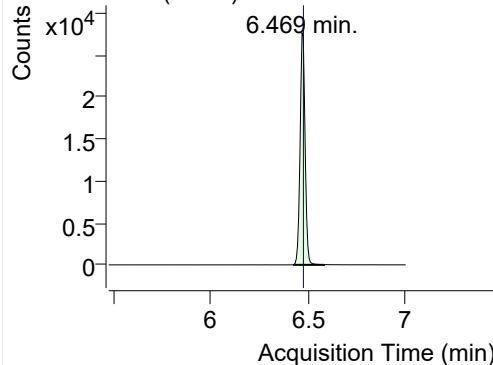
152.0, 151.0, 153.0



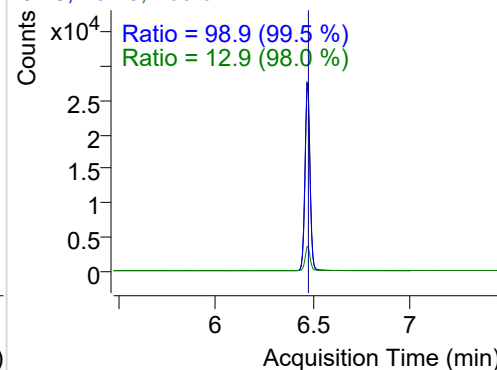
+ SIM (6.084-6.250 min, 29 scans) (**) 221107

**IS-D10-Acenaphthene**

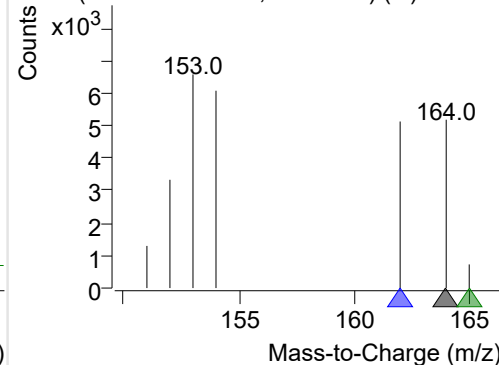
+ Selected Ion (164.0) 221107-PAHs-009.D



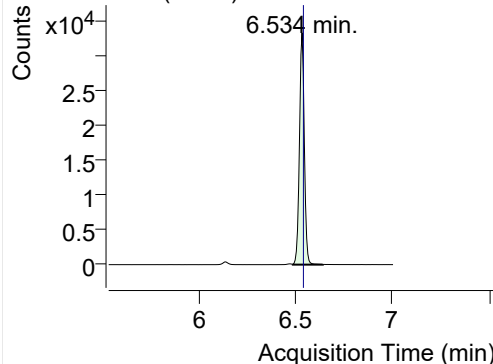
164.0, 162.0, 165.0



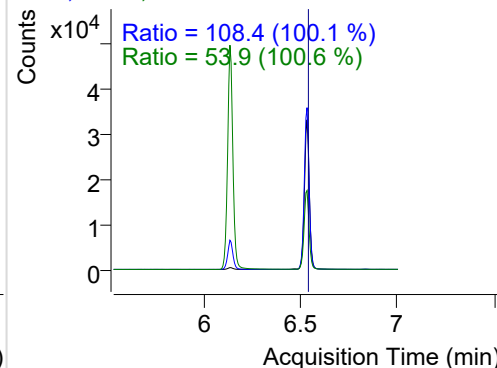
+ SIM (6.427-6.581 min, 27 scans) (**) 221107

**Acenaphthene**

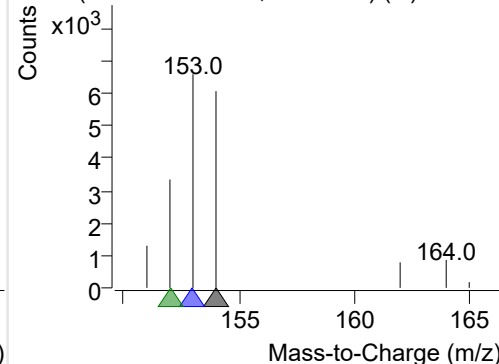
+ Selected Ion (154.0) 221107-PAHs-009.D



154.0, 153.0, 152.0

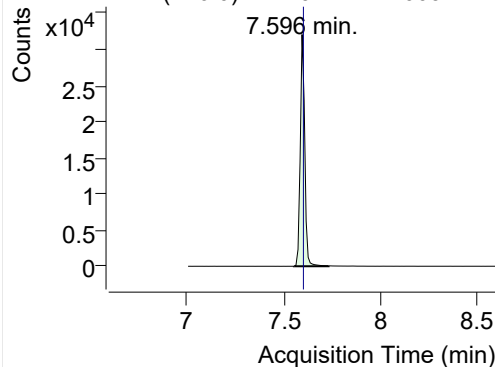


+ SIM (6.487-6.641 min, 27 scans) (**) 221107

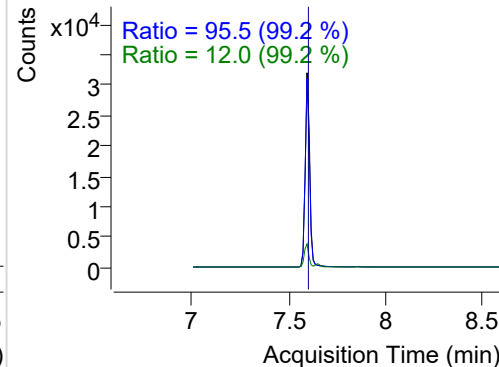


LSS-D10-Fluorene

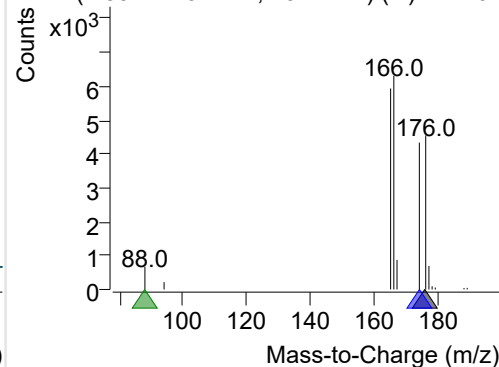
+ Selected Ion (176.0) 221107-PAHs-009.D



176.0, 174.0, 88.0

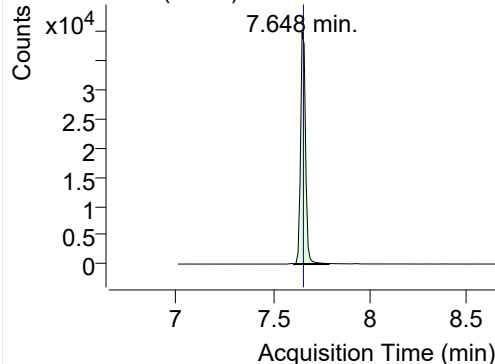


+ SIM (7.554-7.732 min, 18 scans) (**) 221107

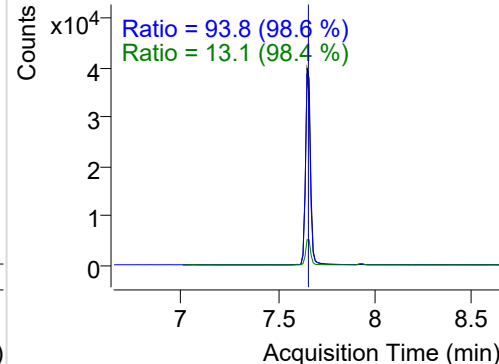


Fluorene

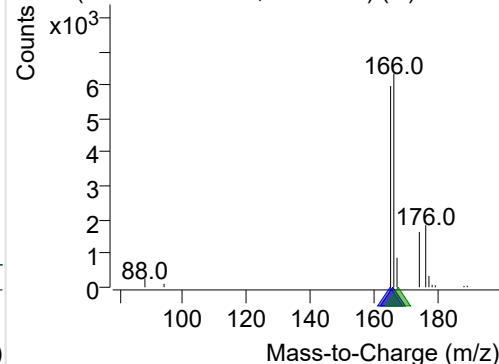
+ Selected Ion (166.0) 221107-PAHs-009.D



166.0, 165.0, 167.0

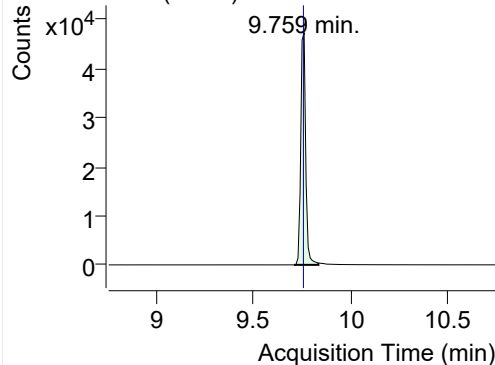


+ SIM (7.606-7.785 min, 18 scans) (**) 221107

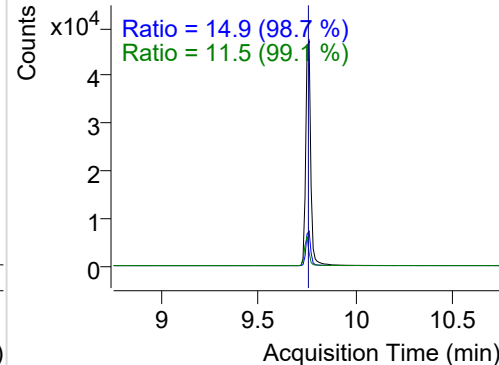


IS-D10-Phenanthrene

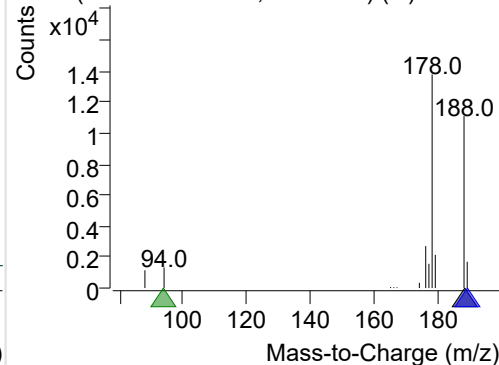
+ Selected Ion (188.0) 221107-PAHs-009.D



188.0, 189.0, 94.0

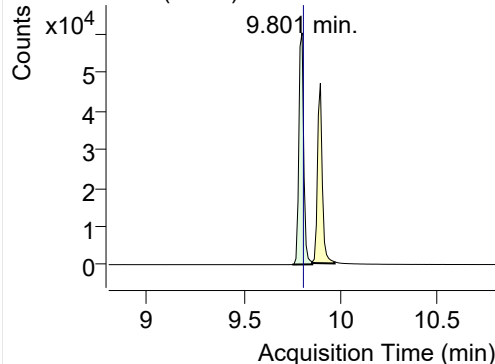


+ SIM (9.707-9.832 min, 12 scans) (**) 221107

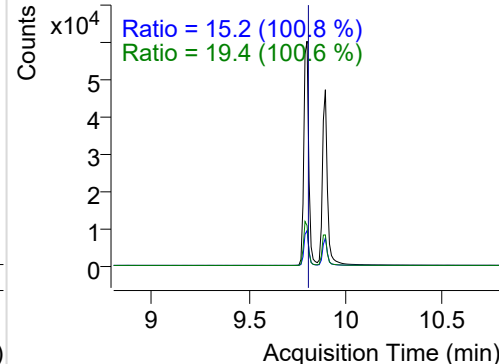


Phenanthrene

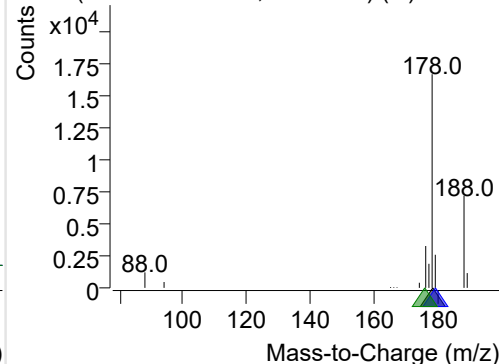
+ Selected Ion (178.0) 221107-PAHs-009.D



178.0, 179.0, 176.0

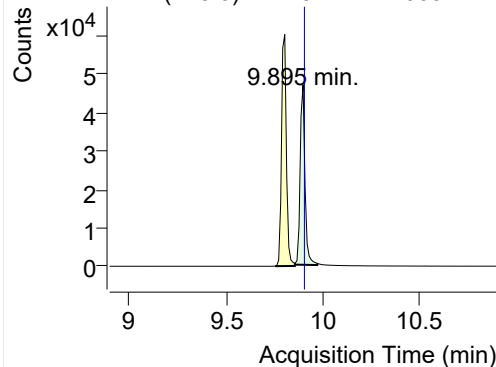


+ SIM (9.751-9.853 min, 10 scans) (**) 221107

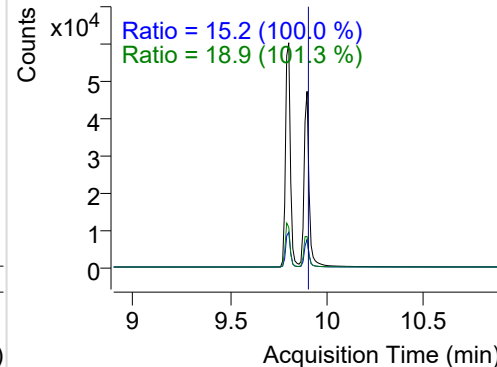


Anthracene

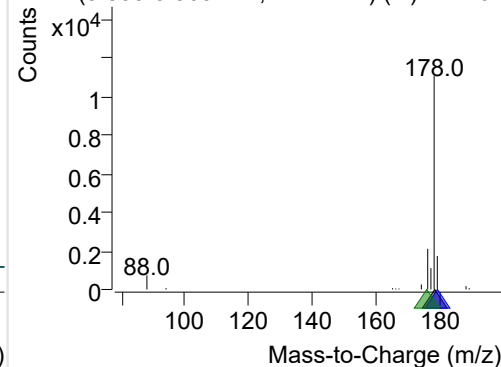
+ Selected Ion (178.0) 221107-PAHs-009.D



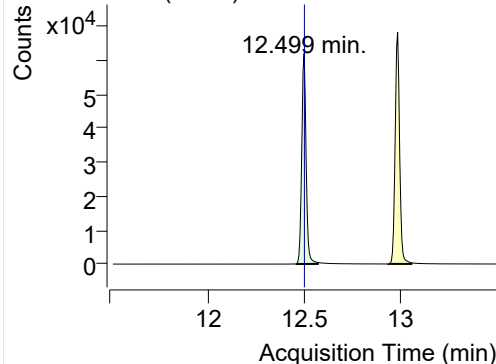
178.0, 179.0, 176.0



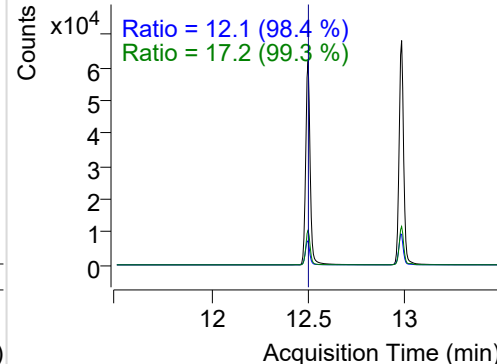
+ SIM (9.853-9.969 min, 12 scans) (**) 221107

**Fluoranthene**

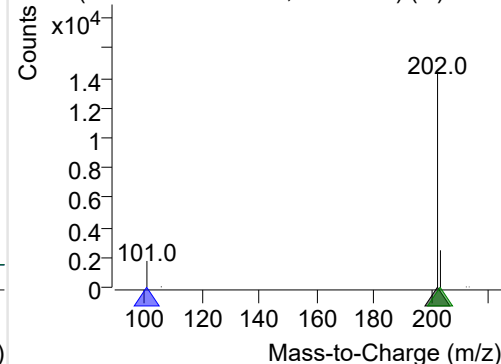
+ Selected Ion (202.0) 221107-PAHs-009.D



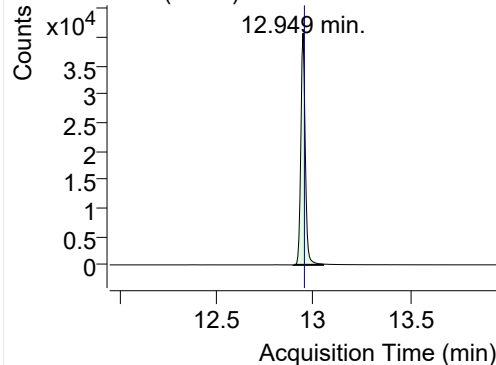
202.0, 101.0, 203.0



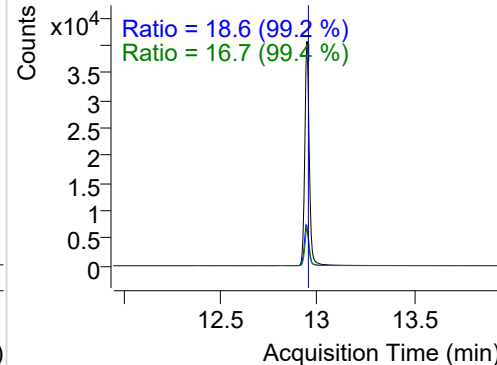
+ SIM (12.456-12.570 min, 21 scans) (**) 2211

**LSS-D10-Pyrene**

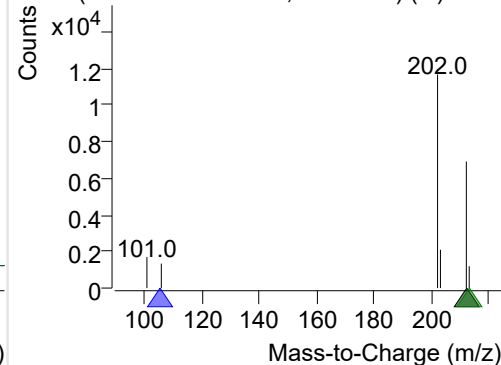
+ Selected Ion (212.0) 221107-PAHs-009.D



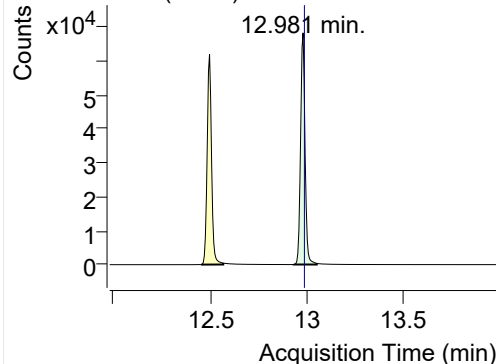
212.0, 106.0, 213.0



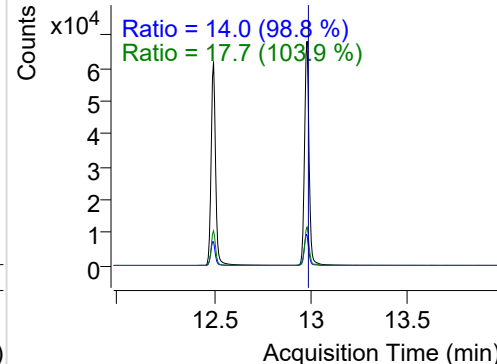
+ SIM (12.900-13.052 min, 29 scans) (**) 2211

**Pyrene**

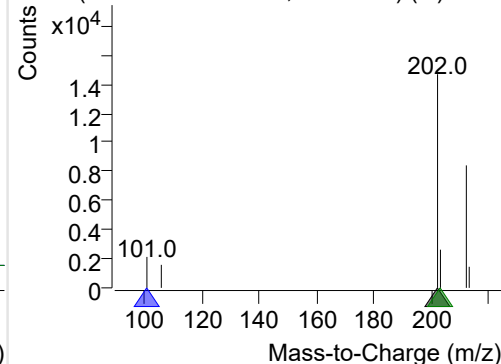
+ Selected Ion (202.0) 221107-PAHs-009.D



202.0, 101.0, 203.0

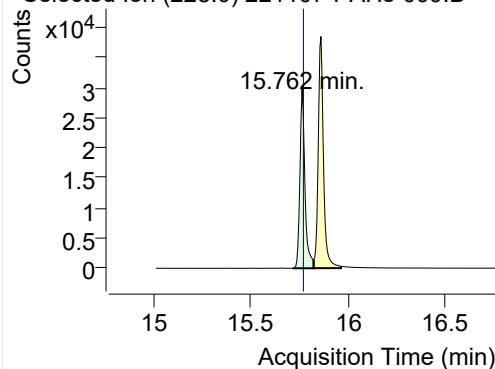


+ SIM (12.933-13.052 min, 23 scans) (**) 2211

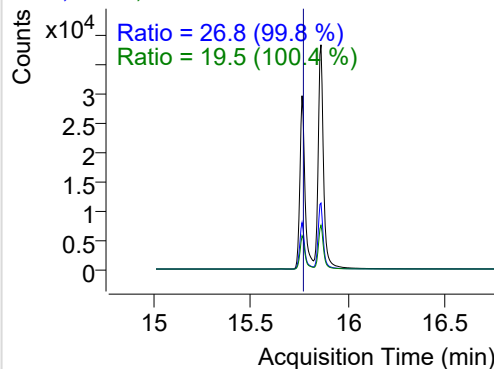


Benz(a)anthracene

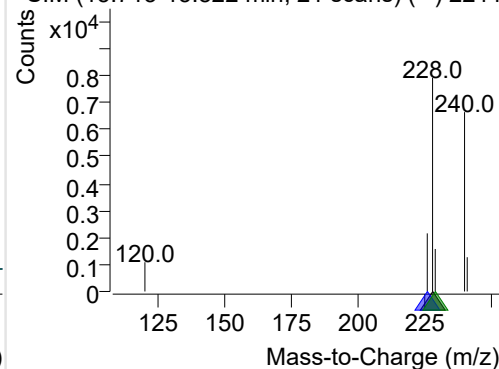
+ Selected Ion (228.0) 221107-PAHs-009.D



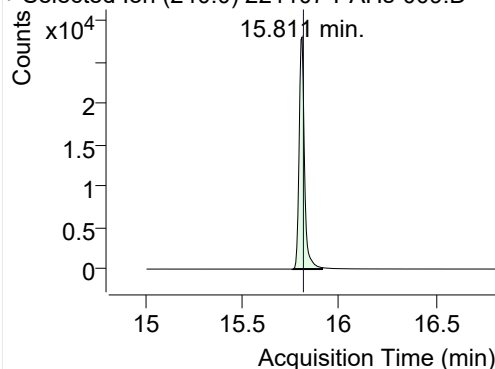
228.0, 226.0, 229.0



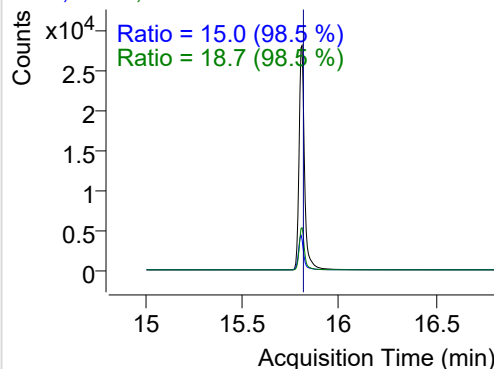
+ SIM (15.713-15.822 min, 21 scans) (**) 2211

**IS-D12-Chrysene**

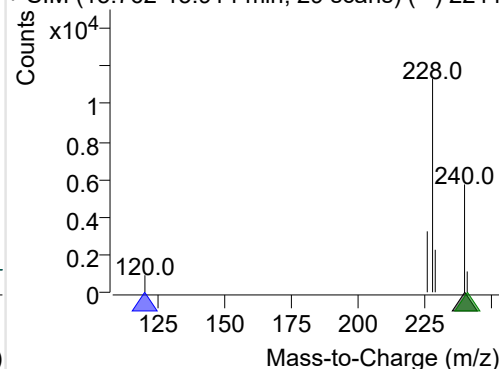
+ Selected Ion (240.0) 221107-PAHs-009.D



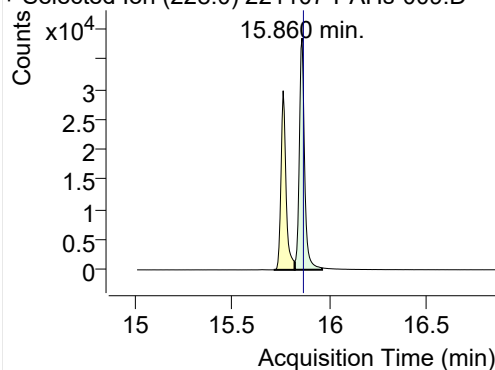
240.0, 120.0, 241.0



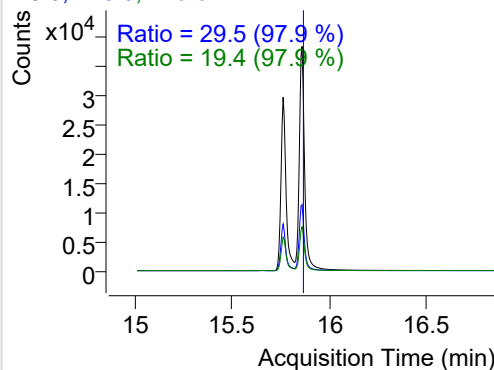
+ SIM (15.762-15.914 min, 29 scans) (**) 2211

**Chrysene**

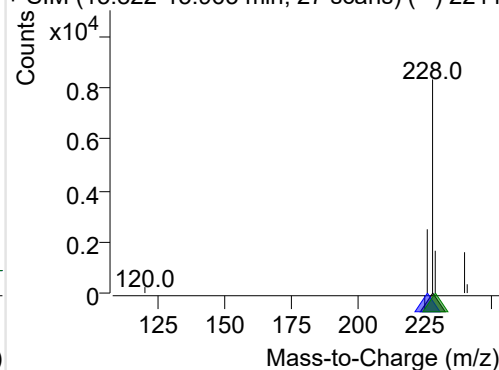
+ Selected Ion (228.0) 221107-PAHs-009.D



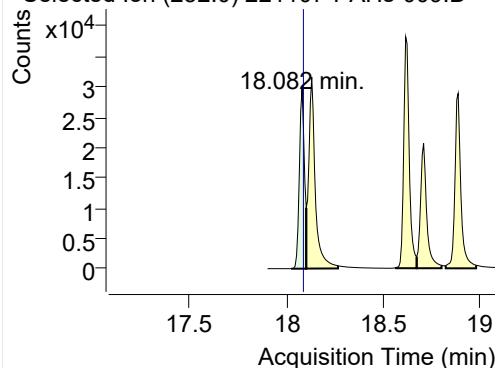
228.0, 226.0, 229.0



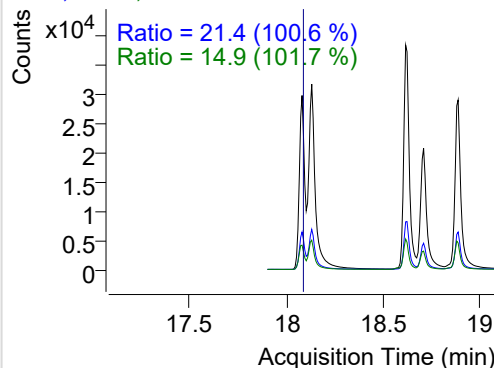
+ SIM (15.822-15.963 min, 27 scans) (**) 2211

**Benzo(b)fluoranthene**

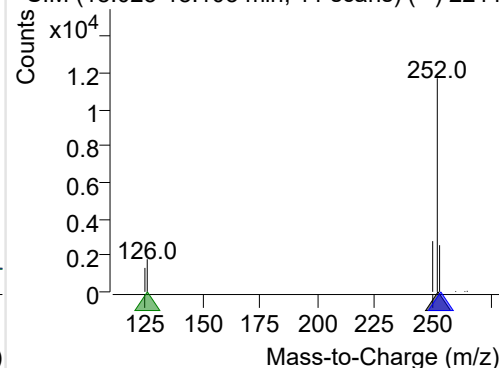
+ Selected Ion (252.0) 221107-PAHs-009.D



252.0, 253.0, 126.0

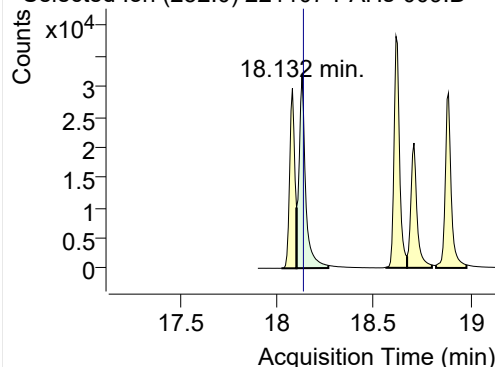


+ SIM (18.025-18.103 min, 11 scans) (**) 2211

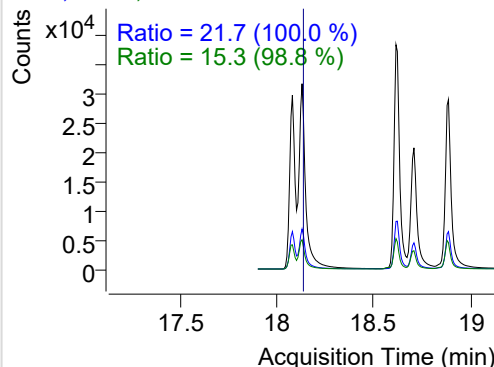


Benzo(k)fluoranthene

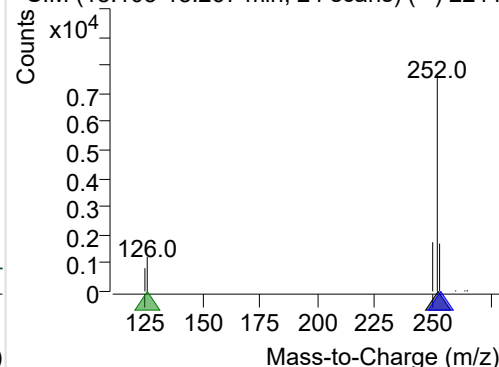
+ Selected Ion (252.0) 221107-PAHs-009.D



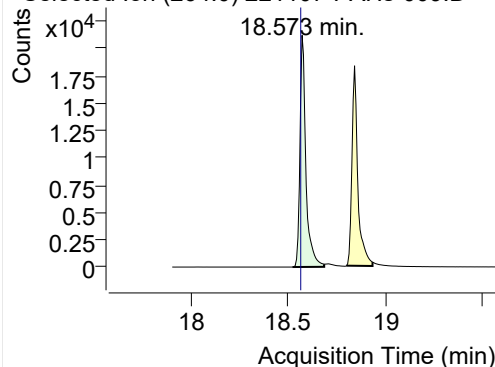
252.0, 253.0, 126.0



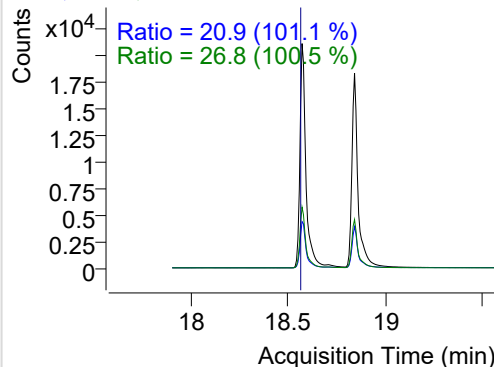
+ SIM (18.103-18.267 min, 24 scans) (**) 2211

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

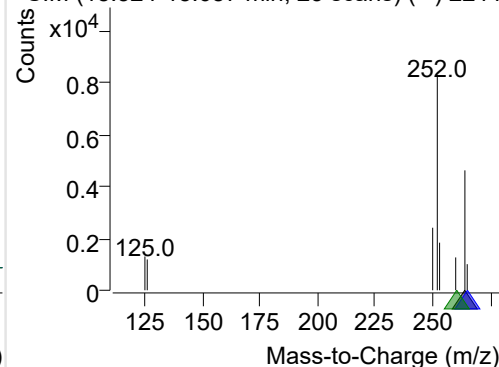
+ Selected Ion (264.0) 221107-PAHs-009.D



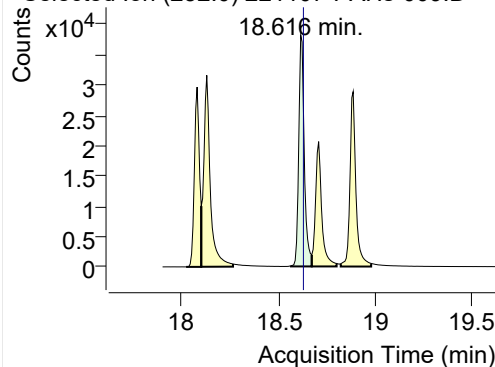
264.0, 265.0, 260.0



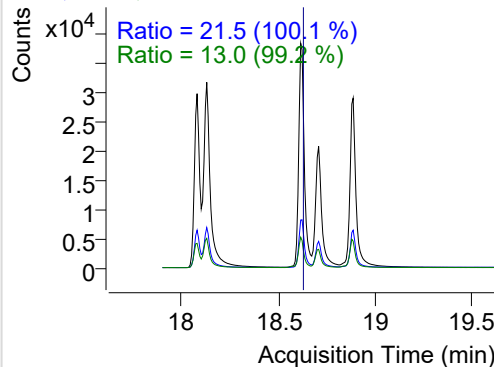
+ SIM (18.524-18.687 min, 23 scans) (**) 2211

**Benzo(e)pyrene**

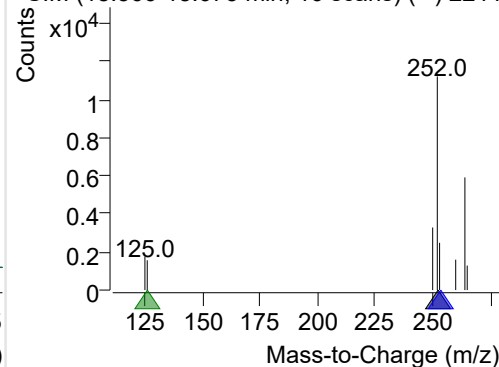
+ Selected Ion (252.0) 221107-PAHs-009.D



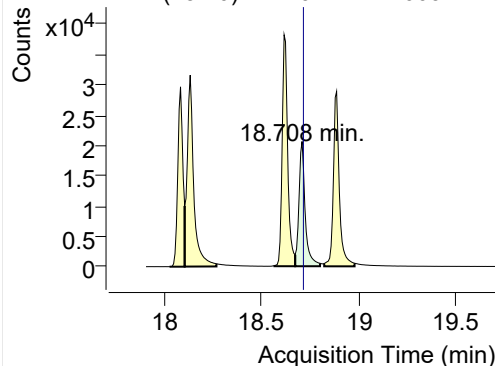
252.0, 253.0, 126.0



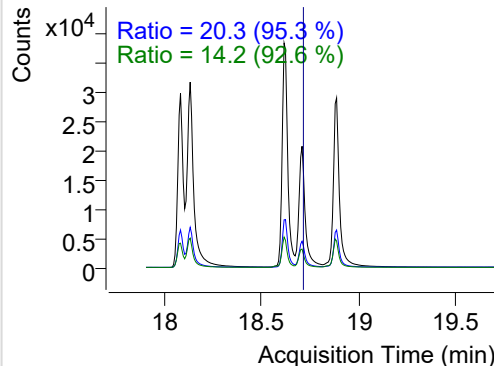
+ SIM (18.566-18.673 min, 16 scans) (**) 2211

**Benzo(a)pyrene**

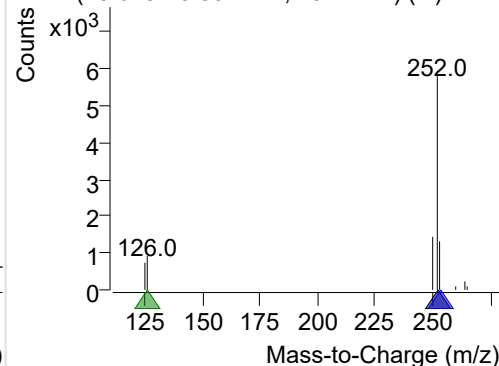
+ Selected Ion (252.0) 221107-PAHs-009.D



252.0, 253.0, 126.0

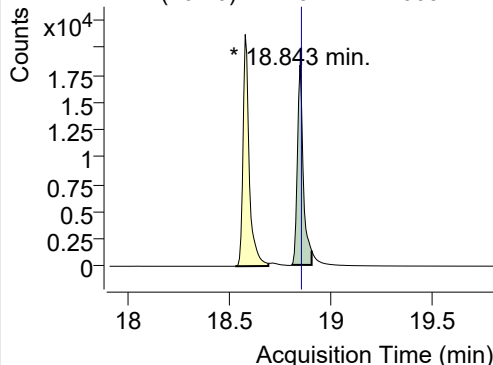


+ SIM (18.673-18.801 min, 19 scans) (**) 2211

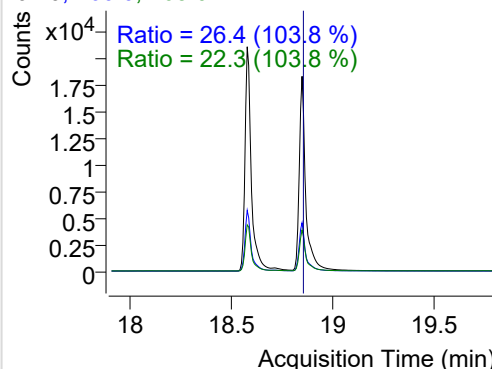


IS-D12-Perylene

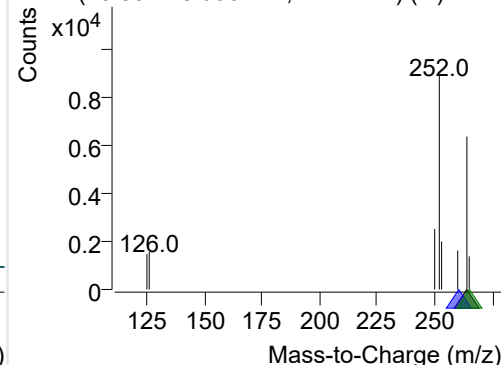
+ Selected Ion (264.0) 221107-PAHs-009.D



264.0, 260.0, 265.0

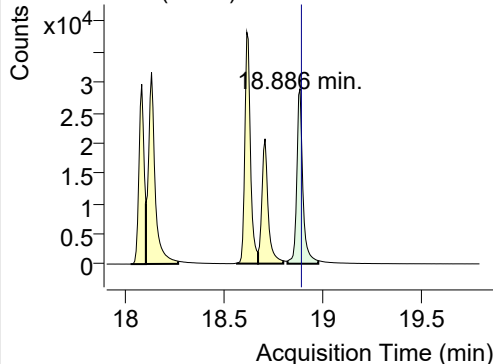


+ SIM (18.802-18.900 min, 14 scans) (**) 2211

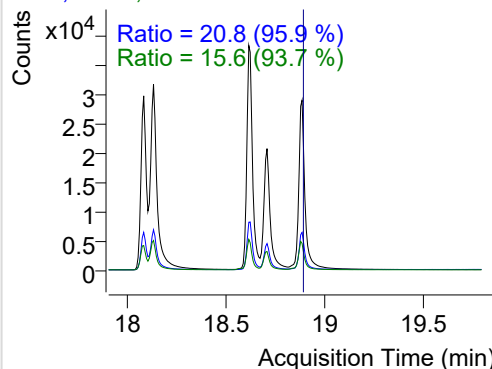


Perylene

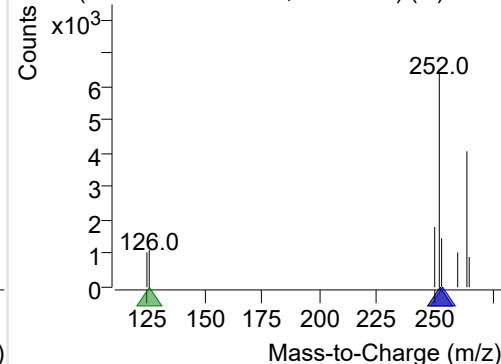
+ Selected Ion (252.0) 221107-PAHs-009.D



252.0, 253.0, 126.0

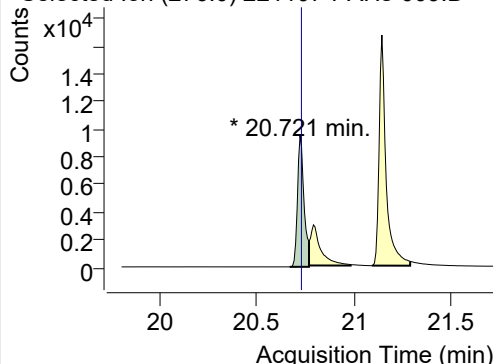


+ SIM (18.822-18.979 min, 23 scans) (**) 2211

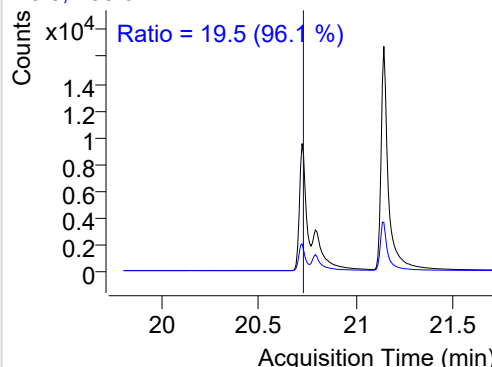


Indeno(1,2,3-c,d)pyrene

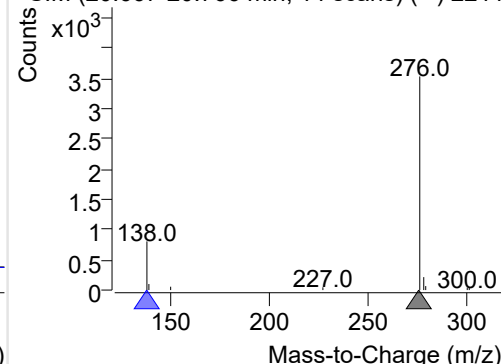
+ Selected Ion (276.0) 221107-PAHs-009.D



276.0, 138.0

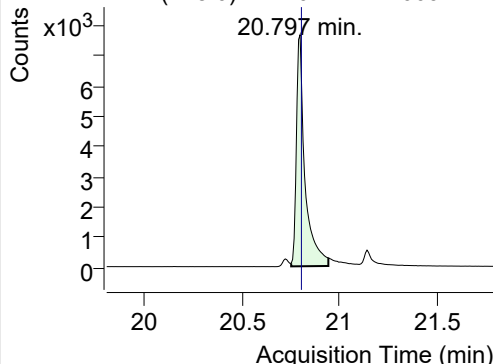


+ SIM (20.667-20.766 min, 14 scans) (**) 2211

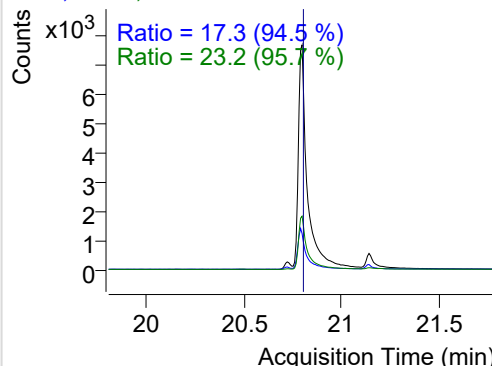


Dibenz(a,h)anthracene

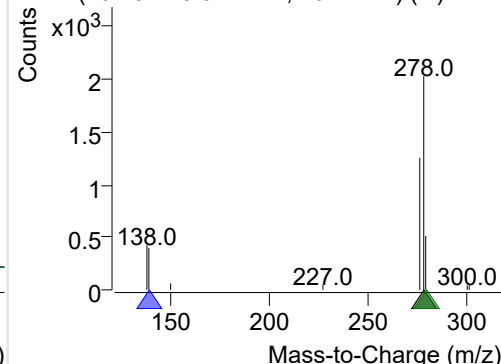
+ Selected Ion (278.0) 221107-PAHs-009.D



278.0, 139.0, 279.0

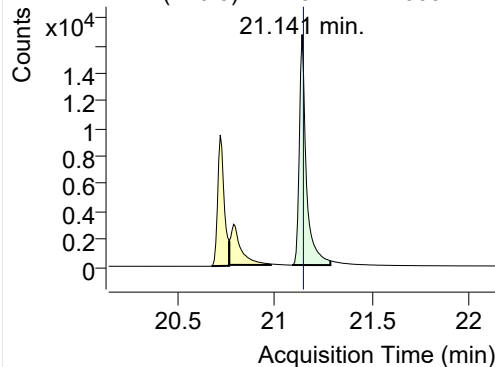


+ SIM (20.751-20.942 min, 26 scans) (**) 2211

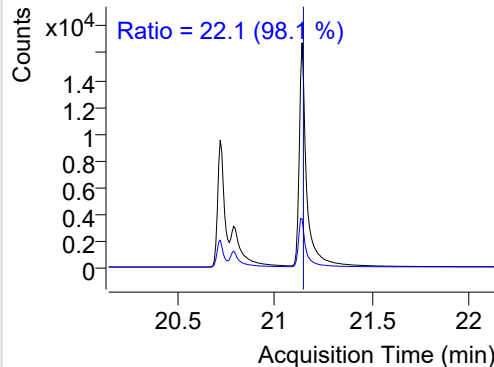


Benzo(g,h,i)perylene

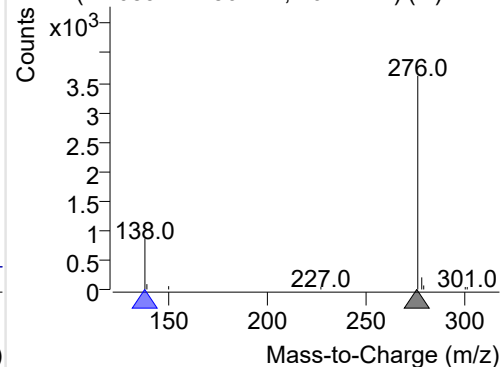
+ Selected Ion (276.0) 221107-PAHs-009.D



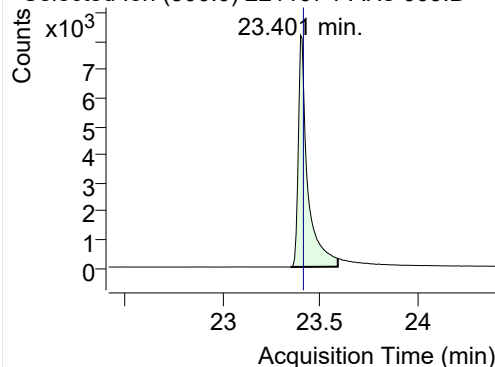
276.0, 138.0



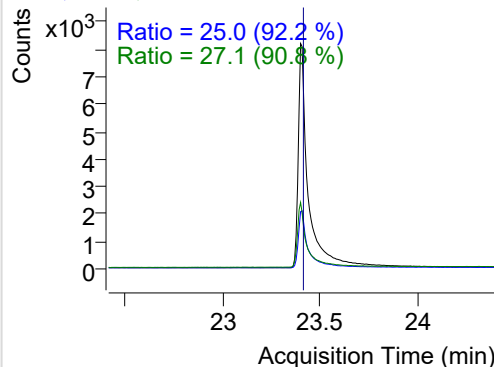
+ SIM (21.089-21.286 min, 26 scans) (**) 2211

**Coronene**

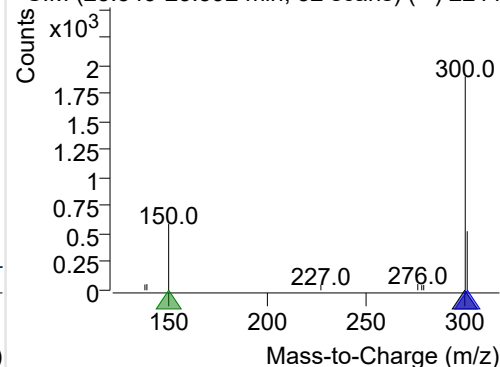
+ Selected Ion (300.0) 221107-PAHs-009.D



300.0, 301.0, 150.0



+ SIM (23.349-23.592 min, 32 scans) (**) 2211



Quantitative Analysis Sample Based Report

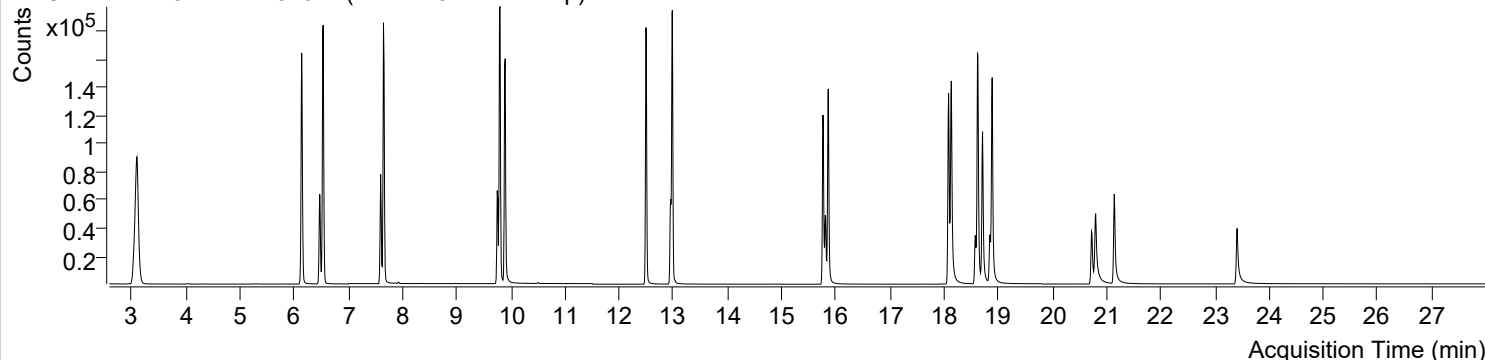


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-07 오후 8:40:49	Data File	221107-PAHs-010.D
Type	Sample	Name	PAHs-19mix-STD-2p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

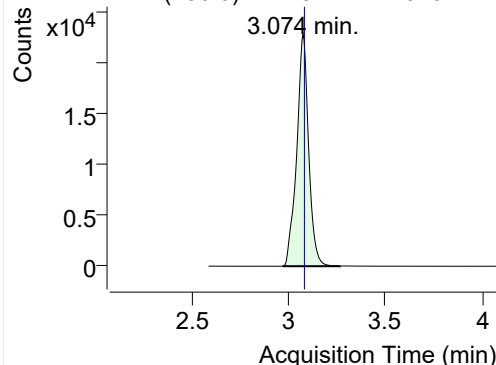
+ TIC SIM 221107-PAHs-010.D (PAHs-19mix-STD-2p)



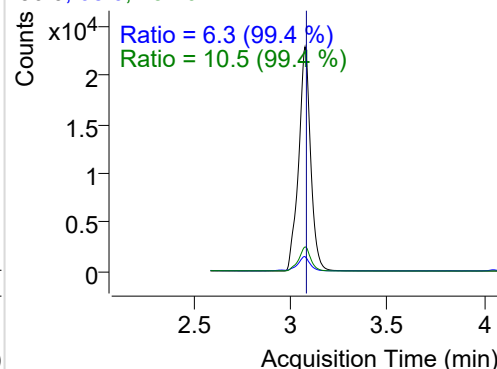
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	97708	22864.90	ND ng/ml	10.5
Naphthalene	3.101	128.0	249850	58871.88	ND ng/ml	12.9
Acenaphthylene	6.137	152.0	215920	123010.77	ND ng/ml	19.7
IS-D10-Acenaphthene	6.469	164.0	52602	29885.85	ND ng/ml	98.8
Acenaphthene	6.534	154.0	114989	66538.15	ND ng/ml	108.0
LSS-D10-Fluorene	7.596	176.0	54982	34570.06	ND ng/ml	95.1
Fluorene	7.648	166.0	149443	87642.36	ND ng/ml	93.8
IS-D10-Phenanthrene	9.748	188.0	89347	51357.86	ND ng/ml	14.8
Phenanthrene	9.801	178.0	224851	131387.27	ND ng/ml	19.3
Anthracene	9.895	178.0	190813	108449.71	ND ng/ml	18.4
Fluoranthene	12.494	202.0	223872	140669.85	ND ng/ml	17.1
LSS-D10-Pyrene	12.949	212.0	70265	42834.47	ND ng/ml	18.6
Pyrene	12.981	202.0	234413	147532.63	ND ng/ml	17.0
Benz(a)anthracene	15.762	228.0	142795	82009.73	ND ng/ml	26.9
IS-D12-Chrysene	15.811	240.0	60856	31982.42	ND ng/ml	18.9
Chrysene	15.860	228.0	165269	92062.29	ND ng/ml	29.5
Benzo(b)fluoranthene	18.082	252.0	137629	80338.71	ND ng/ml	21.3
Benzo(k)fluoranthene	18.131	252.0	187310	85095.45	ND ng/ml	21.5
SS-D12-Benzo(e)pyrene	18.573	264.0	50418	22769.31	ND ng/ml	26.6
Benzo(e)pyrene	18.623	252.0	174135	89795.50	ND ng/ml	21.5
Benzo(a)pyrene	18.708	252.0	124159	62240.21	ND ng/ml	21.4
IS-D12-Perylene	18.843	264.0	48144	21586.00	ND ng/ml	24.9
Perylene	18.886	252.0	150850	78206.55	ND ng/ml	21.2
Indeno(1,2,3-c,d)pyrene	20.721	276.0	67604	29591.32	ND ng/ml	20.3
Dibenz(a,h)anthracene	20.797	278.0	73448	25841.55	ND ng/ml	23.4
Benzo(g,h,i)perylene	21.141	276.0	118965	50268.06	ND ng/ml	21.7
Coronene	23.408	300.0	73536	25985.55	ND ng/ml	28.0

IS-D8-Naphthalene

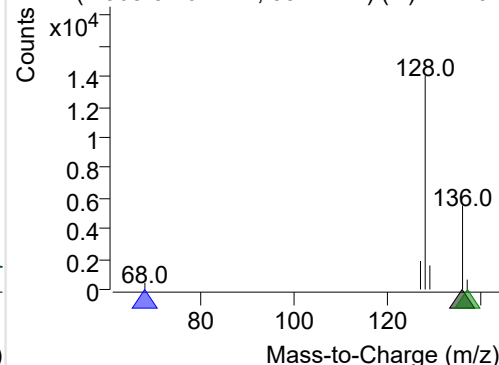
+ Selected Ion (136.0) 221107-PAHs-010.D



136.0, 68.0, 137.0

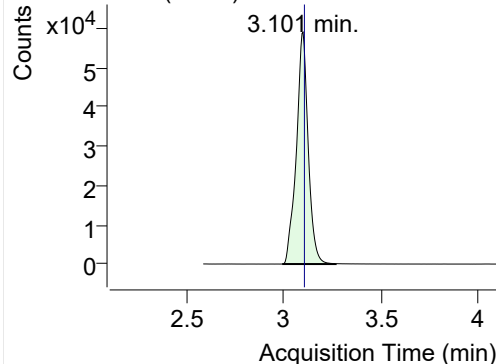


+ SIM (2.968-3.264 min, 55 scans) (**) 221107

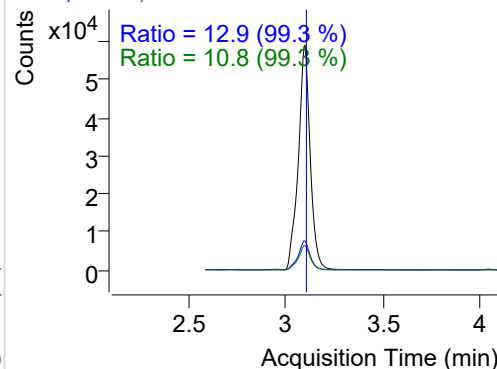


Naphthalene

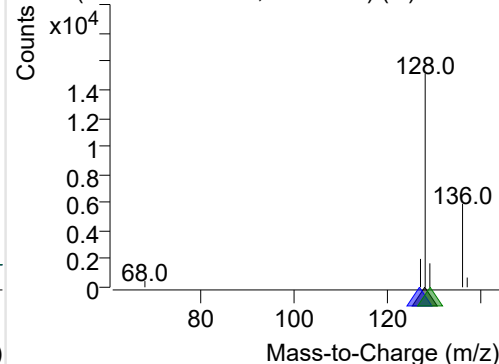
+ Selected Ion (128.0) 221107-PAHs-010.D



128.0, 127.0, 129.0

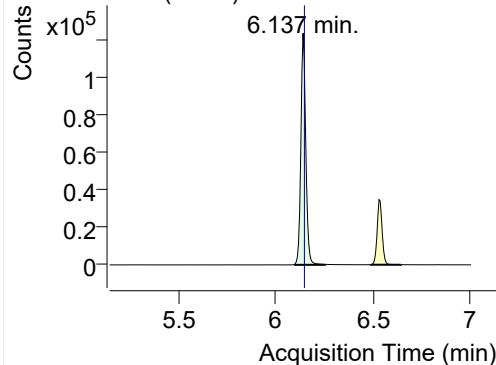


+ SIM (2.994-3.269 min, 51 scans) (**) 221107

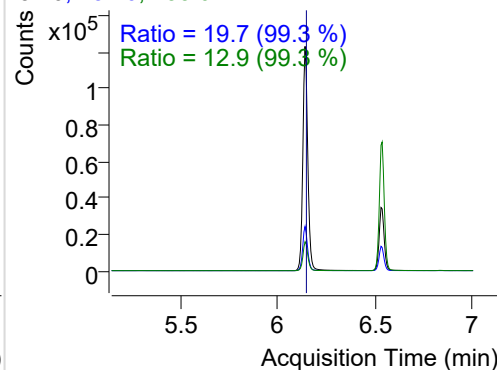


Acenaphthylene

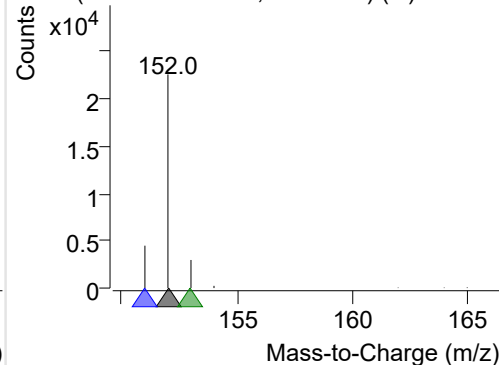
+ Selected Ion (152.0) 221107-PAHs-010.D



152.0, 151.0, 153.0

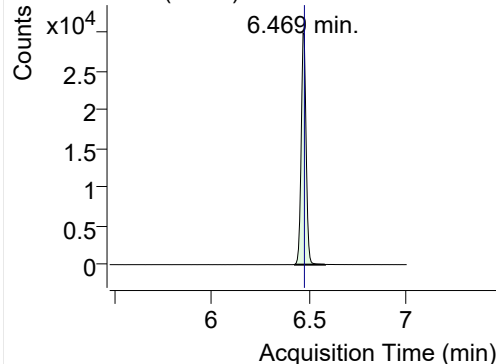


+ SIM (6.096-6.250 min, 27 scans) (**) 221107

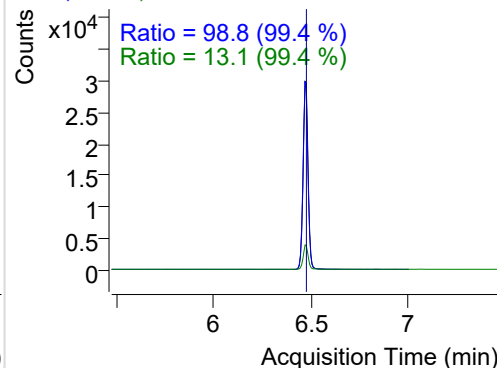


IS-D10-Acenaphthene

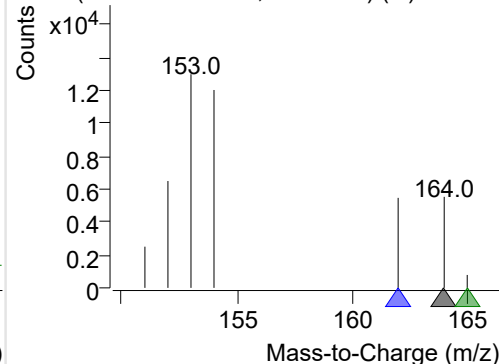
+ Selected Ion (164.0) 221107-PAHs-010.D



164.0, 162.0, 165.0

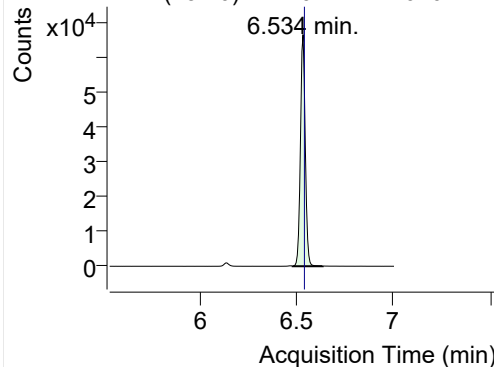


+ SIM (6.427-6.581 min, 27 scans) (**) 221107

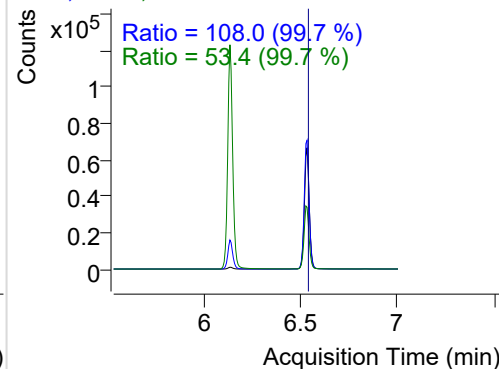


Acenaphthene

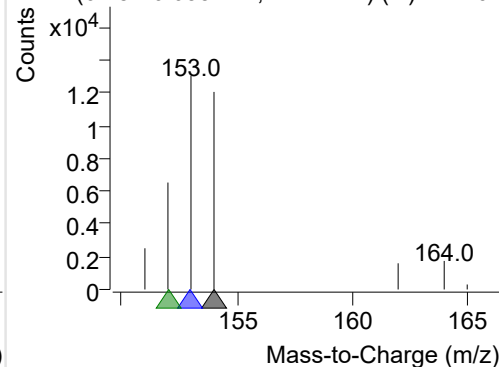
+ Selected Ion (154.0) 221107-PAHs-010.D



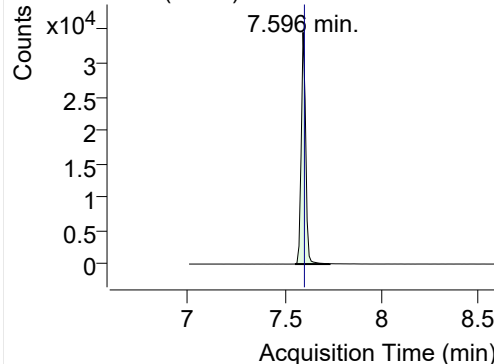
154.0, 153.0, 152.0



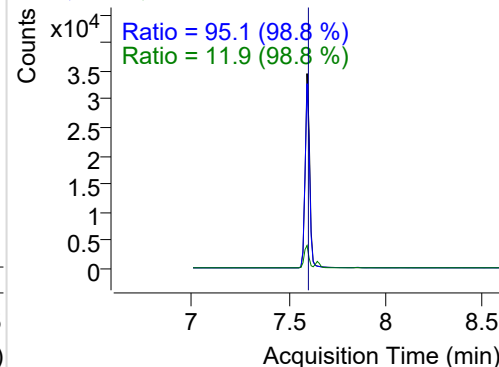
+ SIM (6.481-6.635 min, 27 scans) (**) 221107

**LSS-D10-Fluorene**

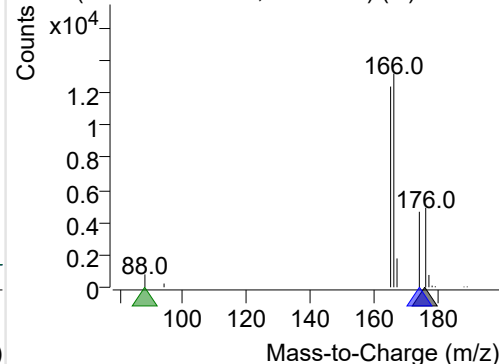
+ Selected Ion (176.0) 221107-PAHs-010.D



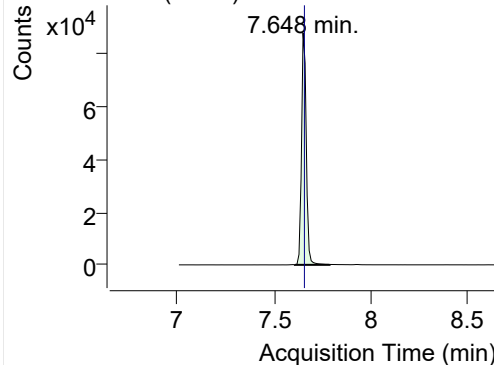
176.0, 174.0, 88.0



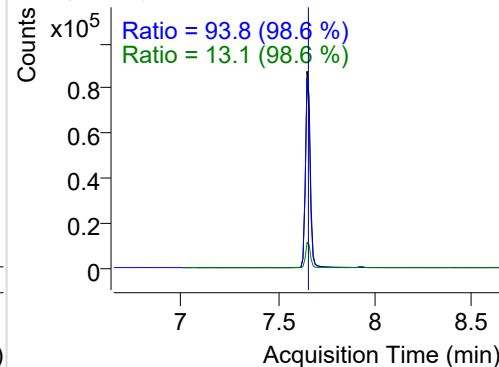
+ SIM (7.554-7.732 min, 18 scans) (**) 221107

**Fluorene**

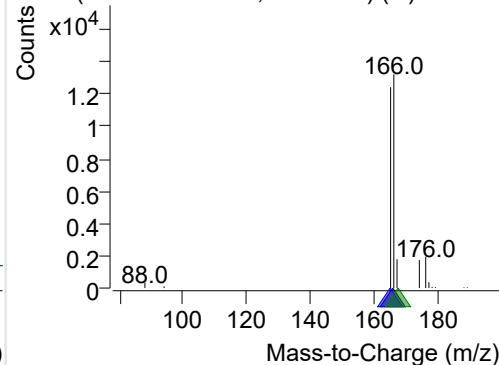
+ Selected Ion (166.0) 221107-PAHs-010.D



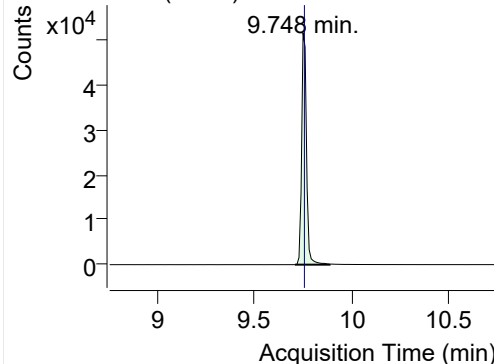
166.0, 165.0, 167.0



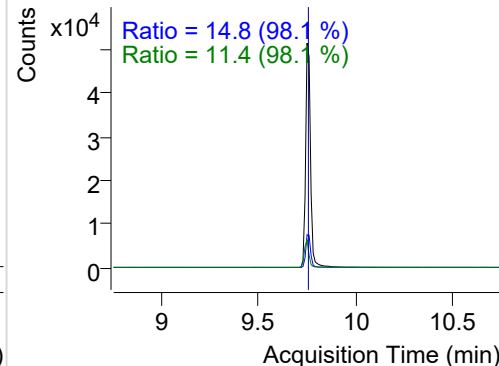
+ SIM (7.606-7.785 min, 18 scans) (**) 221107

**IS-D10-Phenanthrene**

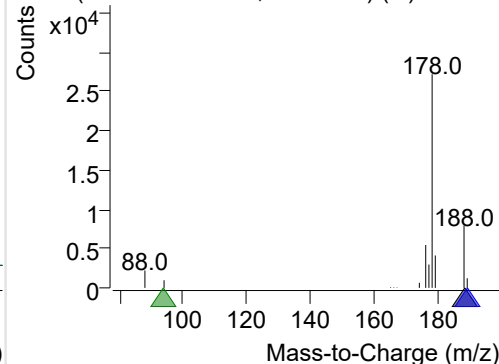
+ Selected Ion (188.0) 221107-PAHs-010.D



188.0, 189.0, 94.0

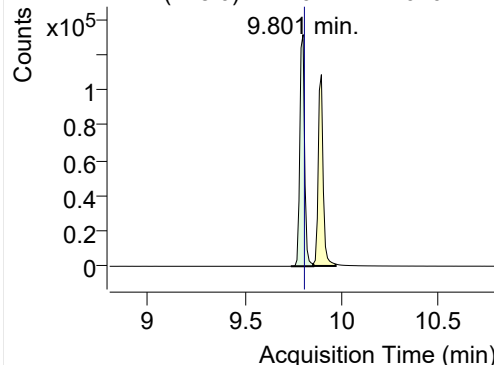


+ SIM (9.706-9.885 min, 18 scans) (**) 221107

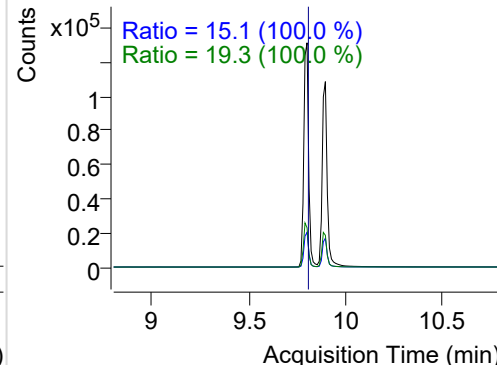


Phenanthrene

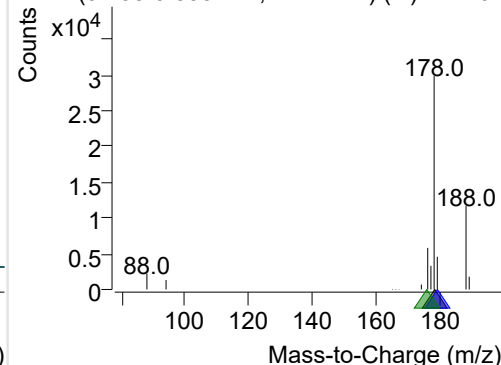
+ Selected Ion (178.0) 221107-PAHs-010.D



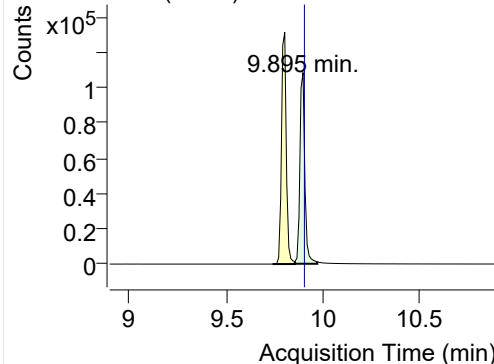
178.0, 179.0, 176.0



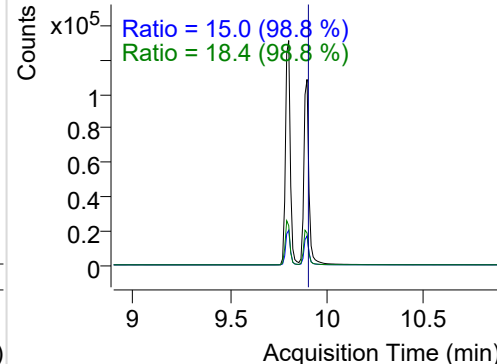
+ SIM (9.738-9.853 min, 12 scans) (**) 221107

**Anthracene**

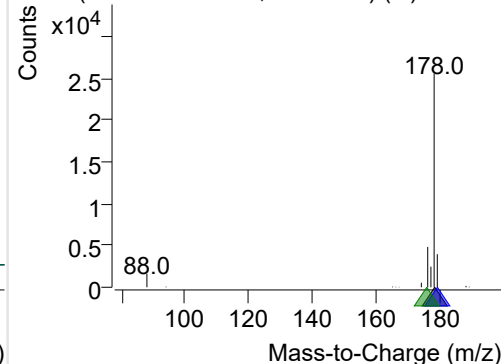
+ Selected Ion (178.0) 221107-PAHs-010.D



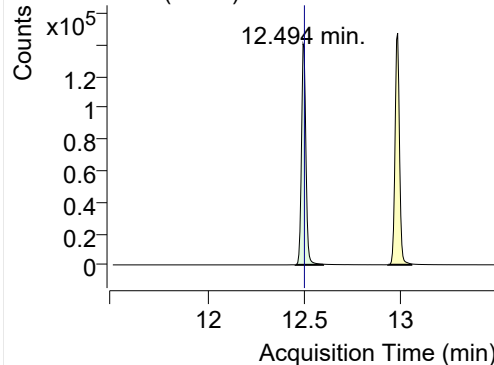
178.0, 179.0, 176.0



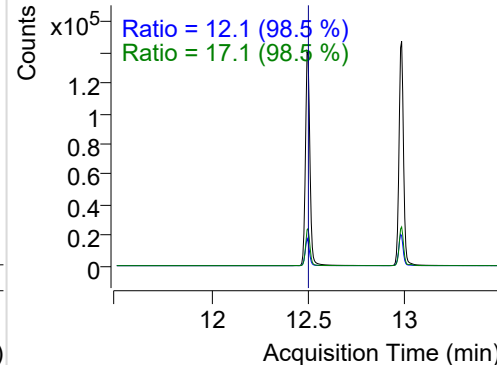
+ SIM (9.853-9.969 min, 12 scans) (**) 221107

**Fluoranthene**

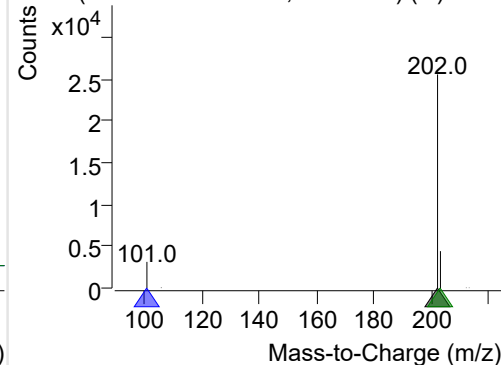
+ Selected Ion (202.0) 221107-PAHs-010.D



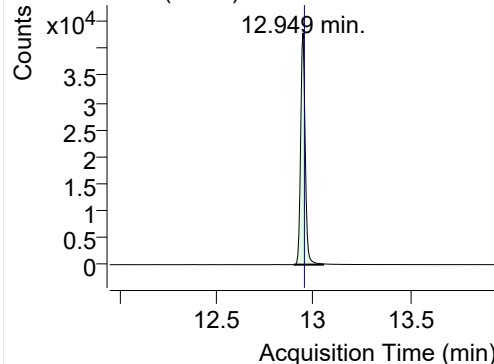
202.0, 101.0, 203.0



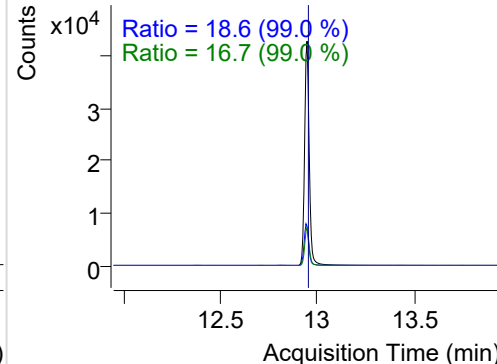
+ SIM (12.456-12.597 min, 27 scans) (**) 2211

**LSS-D10-Pyrene**

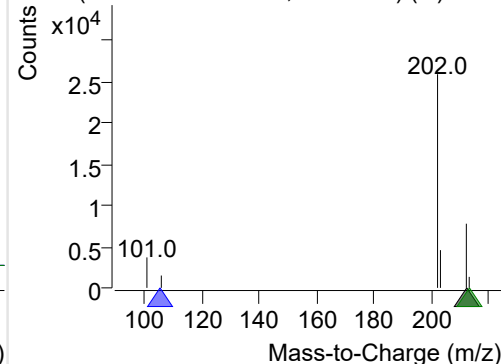
+ Selected Ion (212.0) 221107-PAHs-010.D



212.0, 106.0, 213.0

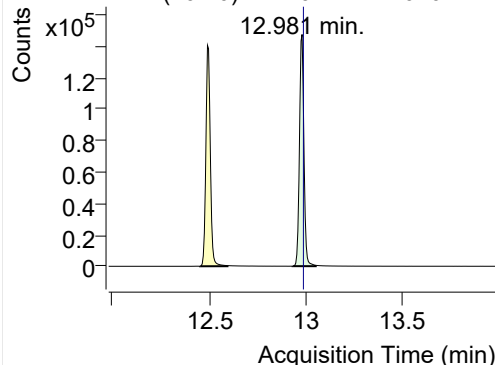


+ SIM (12.900-13.052 min, 28 scans) (**) 2211

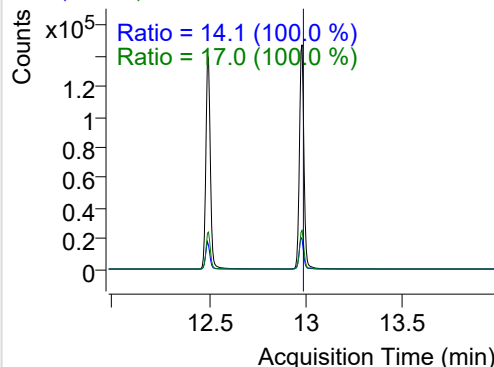


Pyrene

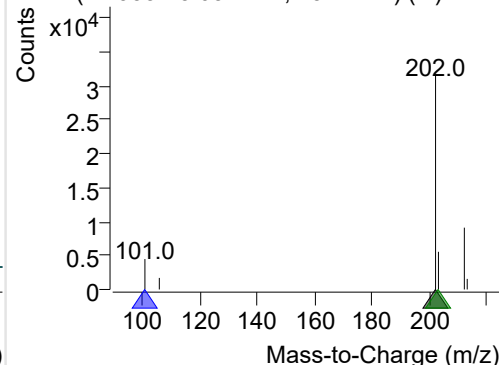
+ Selected Ion (202.0) 221107-PAHs-010.D



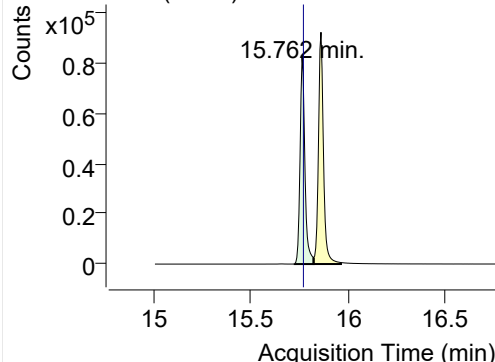
202.0, 101.0, 203.0



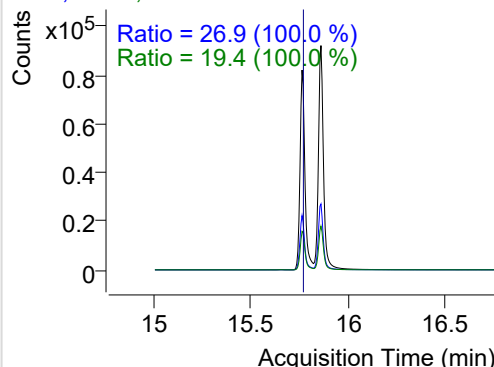
+ SIM (12.933-13.052 min, 23 scans) (**) 2211

**Benz(a)anthracene**

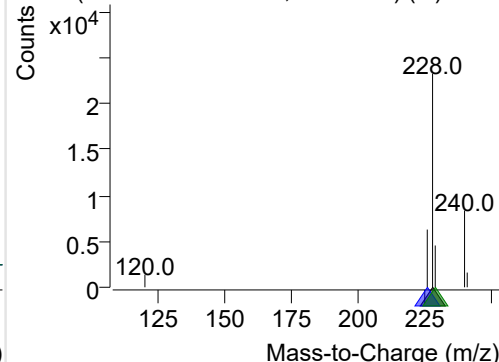
+ Selected Ion (228.0) 221107-PAHs-010.D



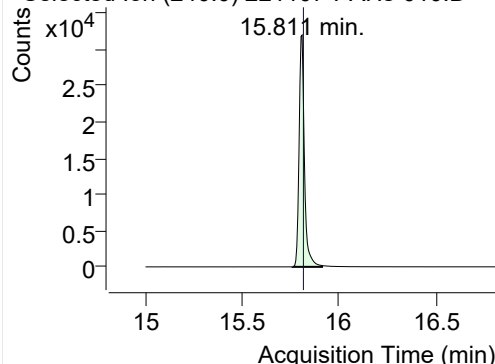
228.0, 226.0, 229.0



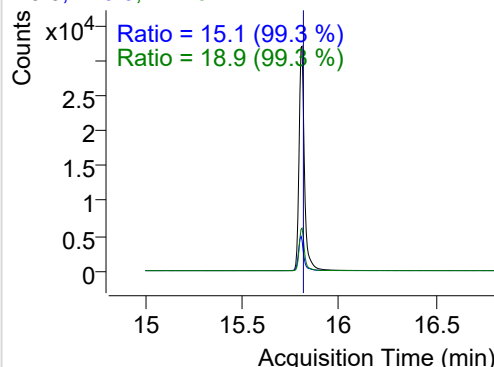
+ SIM (15.724-15.822 min, 19 scans) (**) 2211

**IS-D12-Chrysene**

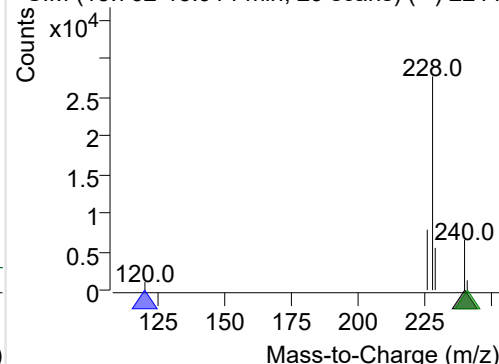
+ Selected Ion (240.0) 221107-PAHs-010.D



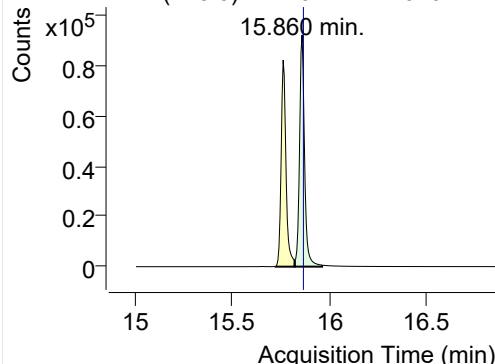
240.0, 120.0, 241.0



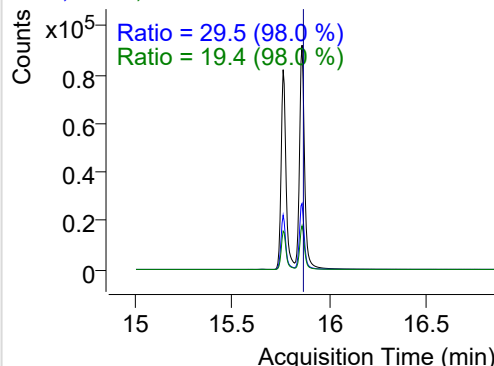
+ SIM (15.762-15.914 min, 29 scans) (**) 2211

**Chrysene**

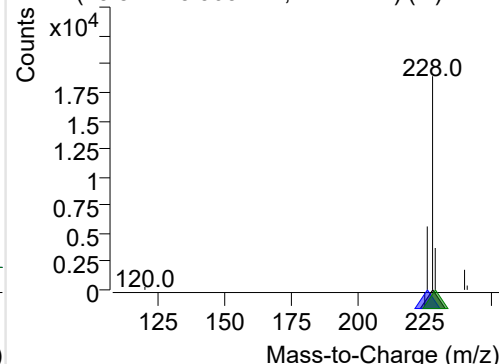
+ Selected Ion (228.0) 221107-PAHs-010.D



228.0, 226.0, 229.0

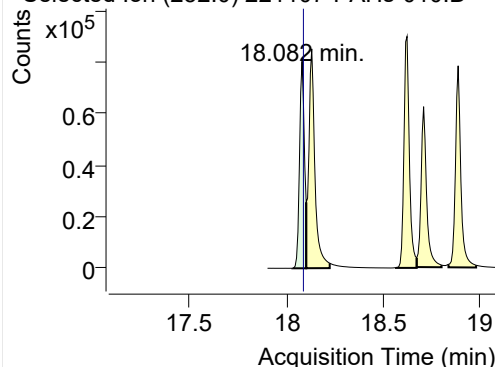


+ SIM (15.822-15.963 min, 27 scans) (**) 2211

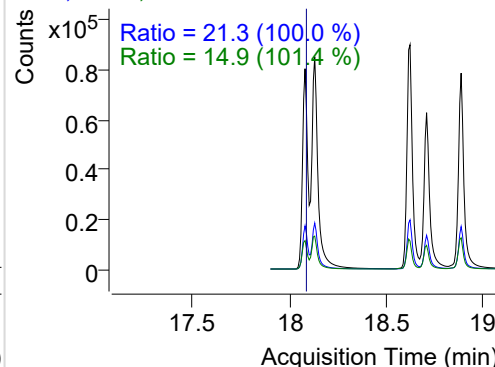


Benzo(b)fluoranthene

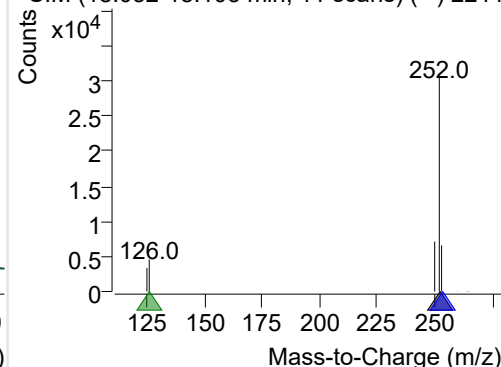
+ Selected Ion (252.0) 221107-PAHs-010.D



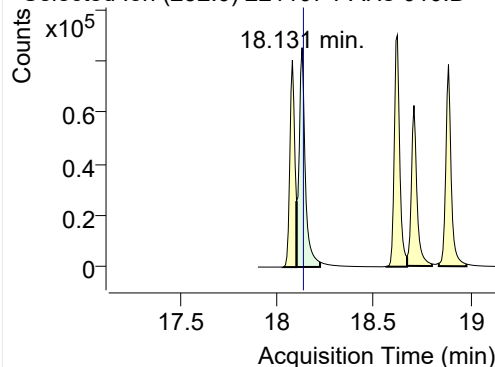
252.0, 253.0, 126.0



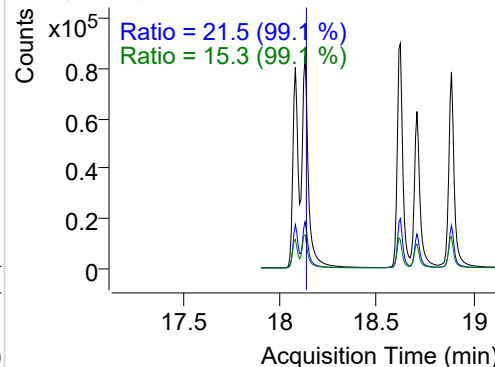
+ SIM (18.032-18.103 min, 11 scans) (**) 2211

**Benzo(k)fluoranthene**

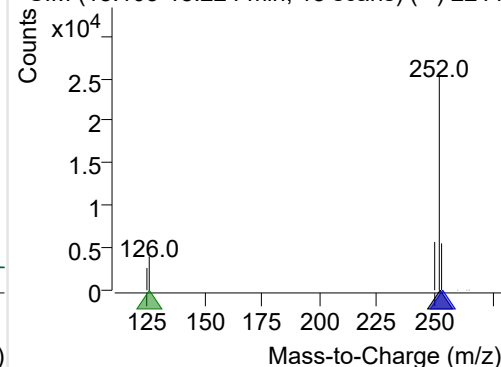
+ Selected Ion (252.0) 221107-PAHs-010.D



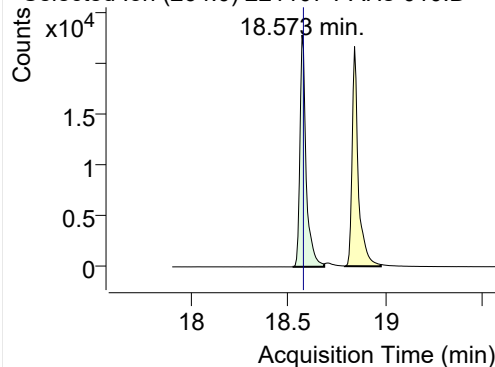
252.0, 253.0, 126.0



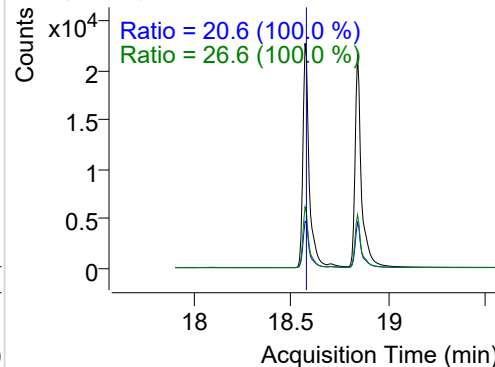
+ SIM (18.103-18.224 min, 18 scans) (**) 2211

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

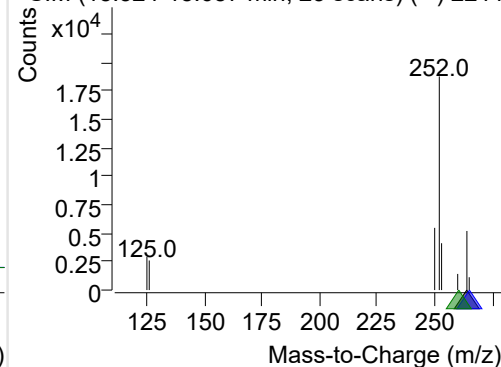
+ Selected Ion (264.0) 221107-PAHs-010.D



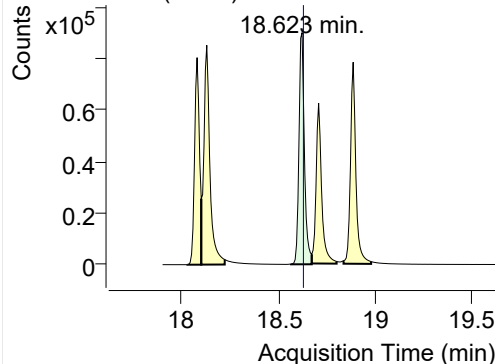
264.0, 265.0, 260.0



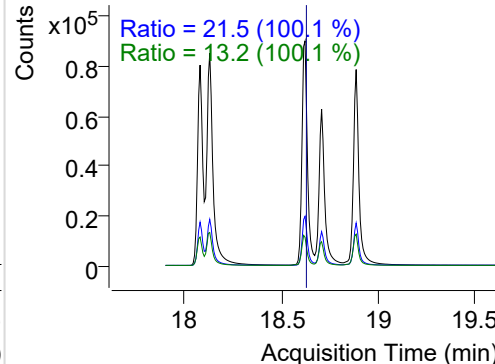
+ SIM (18.524-18.687 min, 23 scans) (**) 2211

**Benzo(e)pyrene**

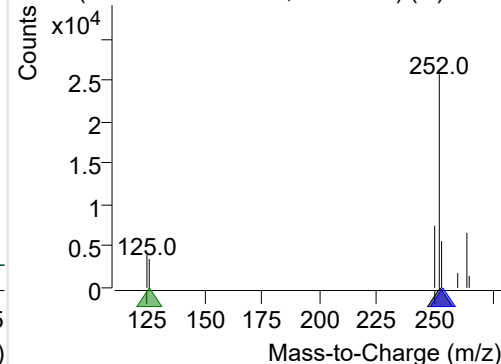
+ Selected Ion (252.0) 221107-PAHs-010.D



252.0, 253.0, 126.0

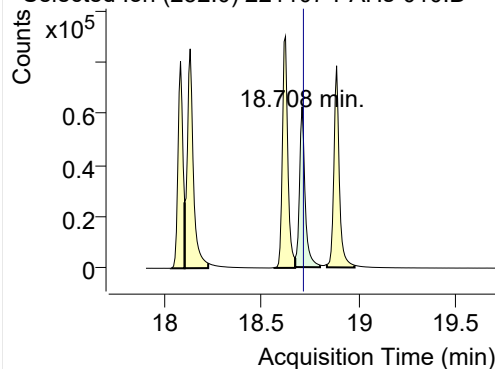


+ SIM (18.566-18.672 min, 16 scans) (**) 2211

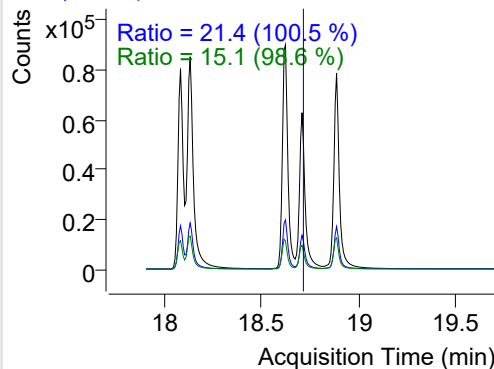


Benzo(a)pyrene

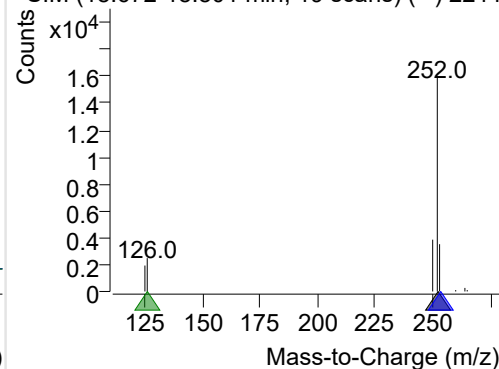
+ Selected Ion (252.0) 221107-PAHs-010.D



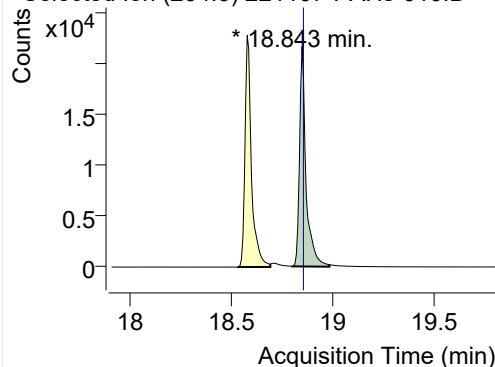
252.0, 253.0, 126.0



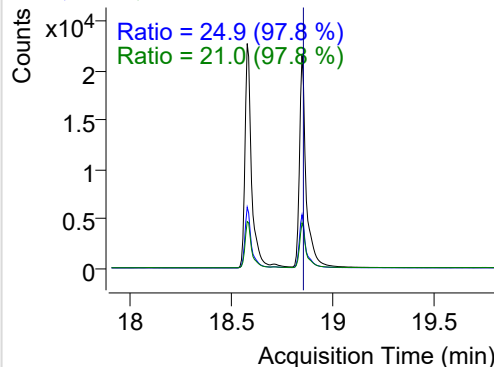
+ SIM (18.672-18.801 min, 19 scans) (**) 2211

**IS-D12-Perylene**

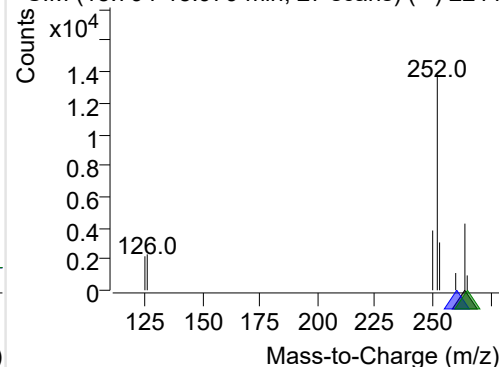
+ Selected Ion (264.0) 221107-PAHs-010.D



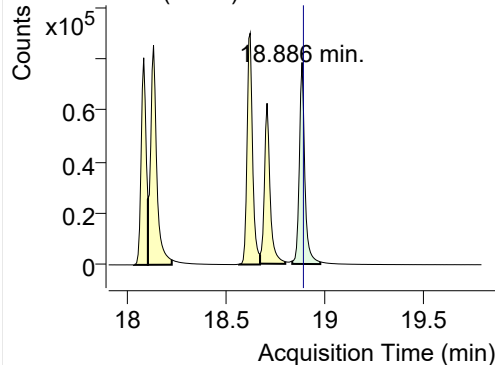
264.0, 260.0, 265.0



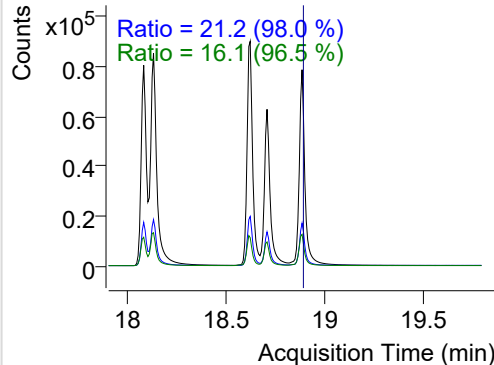
+ SIM (18.794-18.979 min, 27 scans) (**) 2211

**Perylene**

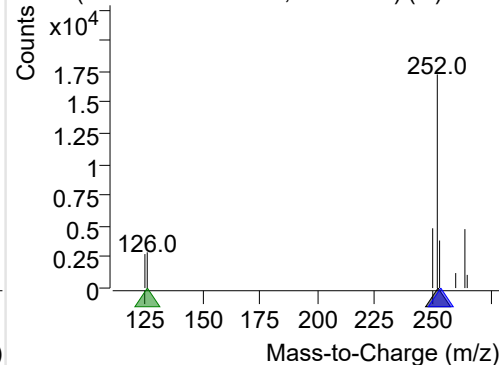
+ Selected Ion (252.0) 221107-PAHs-010.D



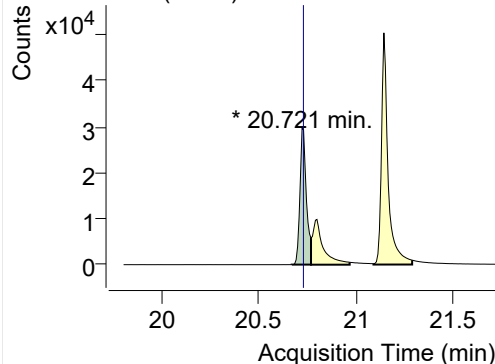
252.0, 253.0, 126.0



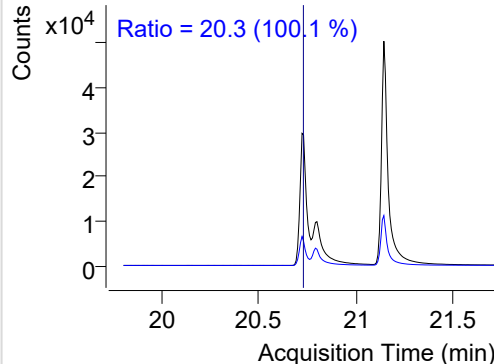
+ SIM (18.836-18.979 min, 21 scans) (**) 2211

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

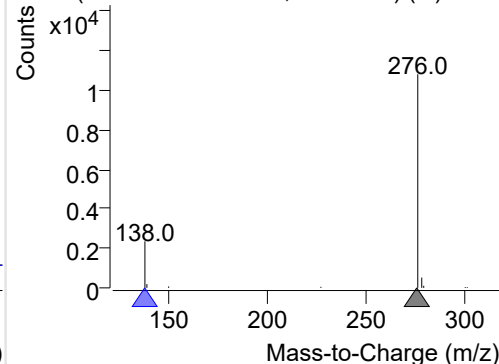
+ Selected Ion (276.0) 221107-PAHs-010.D



276.0, 138.0

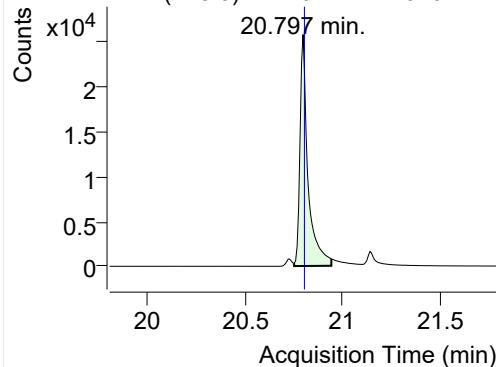


+ SIM (20.667-20.766 min, 14 scans) (**) 2211

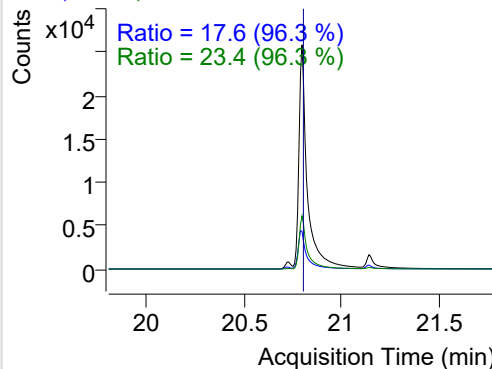


Dibenz(a,h)anthracene

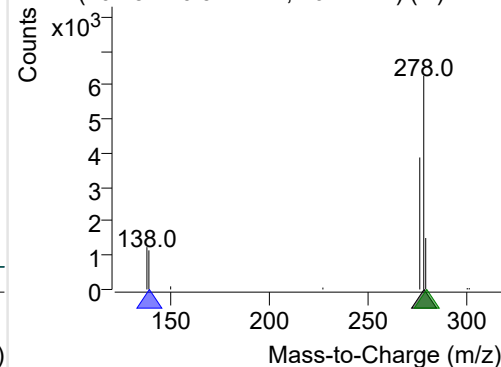
+ Selected Ion (278.0) 221107-PAHs-010.D



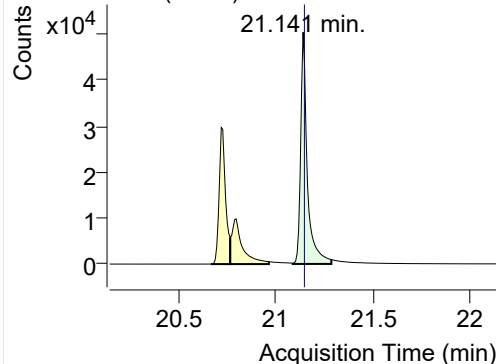
278.0, 139.0, 279.0



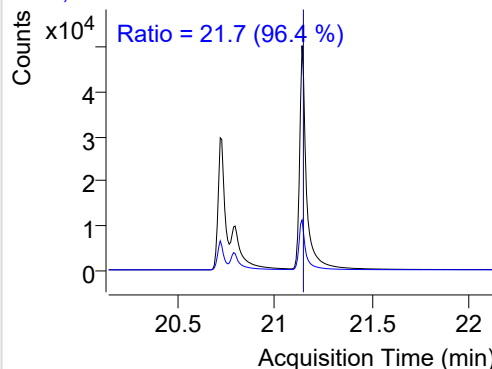
+ SIM (20.751-20.942 min, 26 scans) (**) 2211

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

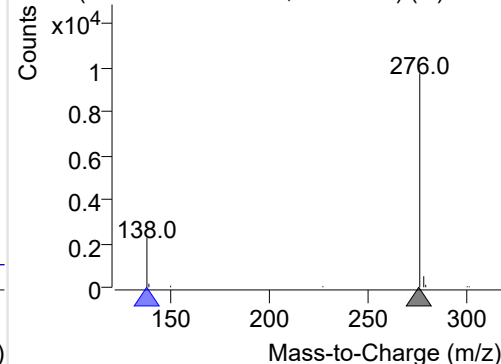
+ Selected Ion (276.0) 221107-PAHs-010.D



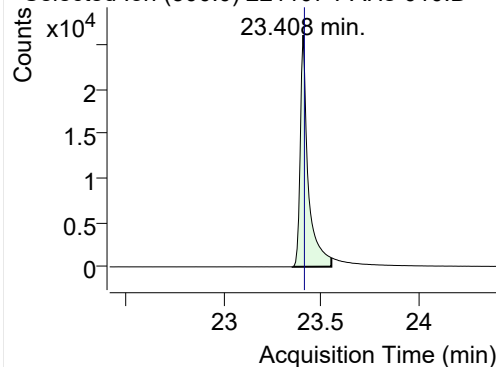
276.0, 138.0



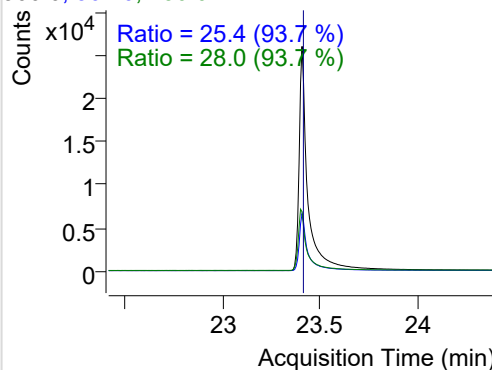
+ SIM (21.087-21.286 min, 27 scans) (**) 2211

**Coronene**

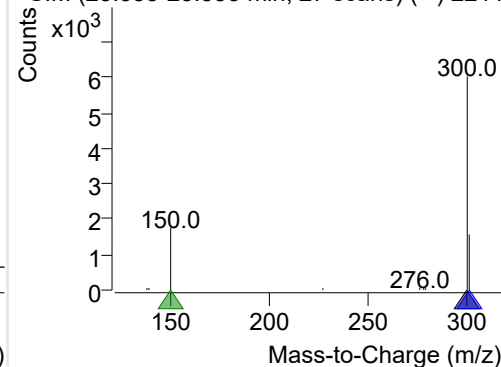
+ Selected Ion (300.0) 221107-PAHs-010.D



300.0, 301.0, 150.0



+ SIM (23.355-23.553 min, 27 scans) (**) 2211



Quantitative Analysis Sample Based Report

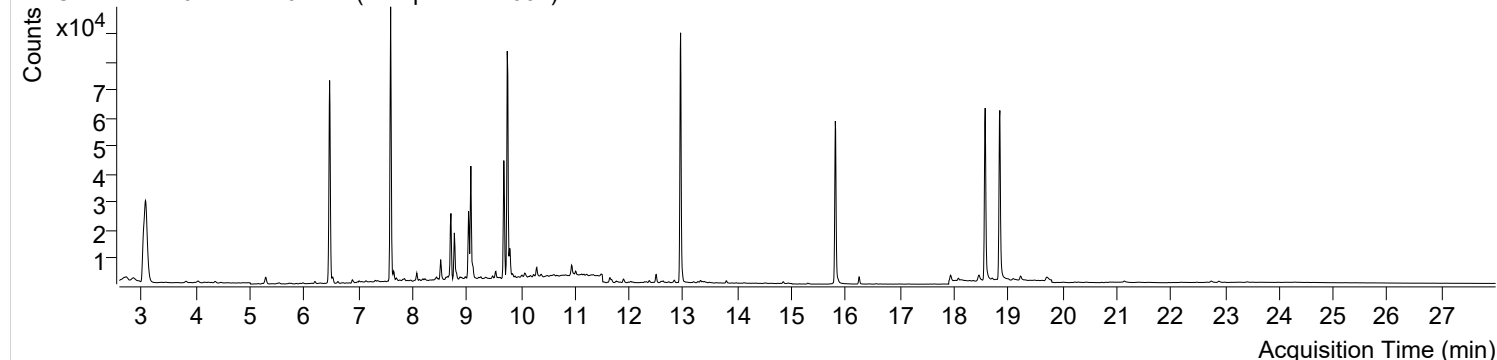


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-07 오후 10:45:34	Data File	221107-PAHs-014.D
Type	Sample	Name	Sample-PM-1002
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

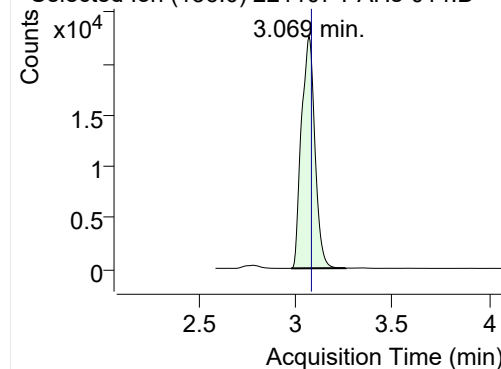
+ TIC SIM 221107-PAHs-014.D (Sample-PM-1002)



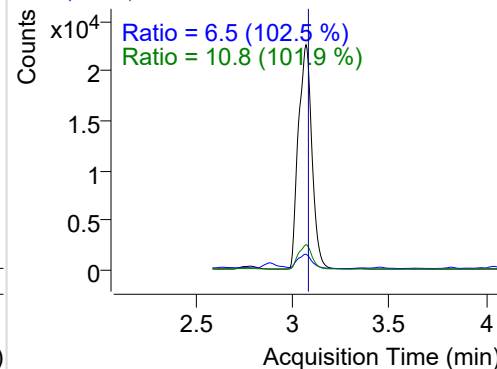
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	108905	22592.96	ND ng/ml	10.8
Naphthalene	3.096	128.0	13820	2960.99	ND ng/ml	12.4
Acenaphthylene	6.137	152.0	358	150.55	ND ng/ml	17.4
IS-D10-Acenaphthene	6.469	164.0	61610	34367.60	ND ng/ml	99.1
Acenaphthene	6.528	154.0	1050	541.62	ND ng/ml	118.6
LSS-D10-Fluorene	7.596	176.0	70661	44139.80	ND ng/ml	94.9
Fluorene	7.648	166.0	2657	1389.98	ND ng/ml	103.9
IS-D10-Phenanthrene	9.748	188.0	109692	63058.73	ND ng/ml	14.9
Phenanthrene	9.801	178.0	11085	6241.54	ND ng/ml	19.6
Anthracene	9.895	178.0	379	242.64	ND ng/ml	
Fluoranthene	12.499	202.0	3567	2132.15	ND ng/ml	18.4
LSS-D10-Pyrene	12.949	212.0	104279	66385.99	ND ng/ml	18.1
Pyrene	12.981	202.0	3641	2044.41	ND ng/ml	17.4
Benz(a)anthracene	15.762	228.0	440	259.13	ND ng/ml	80.3
IS-D12-Chrysene	15.806	240.0	76465	43485.86	ND ng/ml	18.8
Chrysene	15.849	228.0	1003	441.34	ND ng/ml	27.0
Benzo(b)fluoranthene	18.082	252.0	1040	552.55	ND ng/ml	36.4
Benzo(k)fluoranthene	18.124	252.0	860	284.13	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	78176	41339.56	ND ng/ml	26.7
Benzo(e)pyrene	18.616	252.0	933	447.31	ND ng/ml	17.9
Benzo(a)pyrene	18.701	252.0	523	206.48	ND ng/ml	12.4
IS-D12-Perylene	18.843	264.0	79929	41145.61	ND ng/ml	24.9
Perylene	18.879	252.0	159	71.73	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.728	276.0	211	104.78	ND ng/ml	22.6
Dibenz(a,h)anthracene	20.805	278.0	769	96.11	ND ng/ml	9.3
Benzo(g,h,i)perylene	21.141	276.0	895	329.63	ND ng/ml	46.8
Coronene	23.408	300.0	394	124.45	ND ng/ml	19.4

IS-D8-Naphthalene

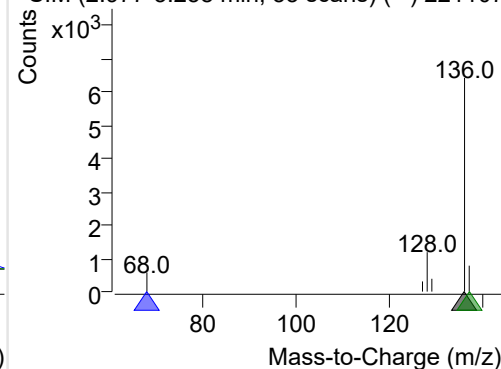
+ Selected Ion (136.0) 221107-PAHs-014.D



136.0, 68.0, 137.0

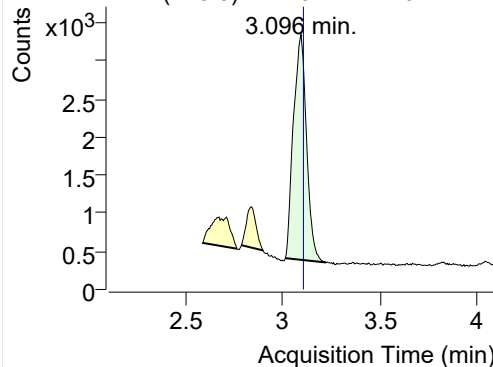


+ SIM (2.977-3.258 min, 53 scans) (**) 221107

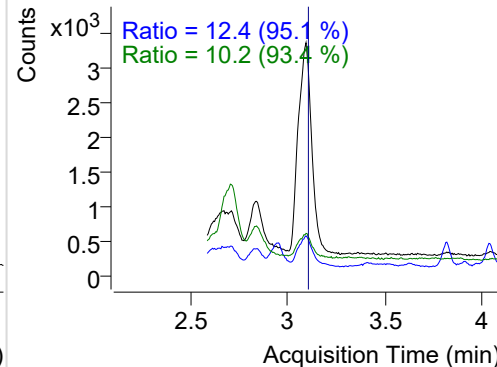


Naphthalene

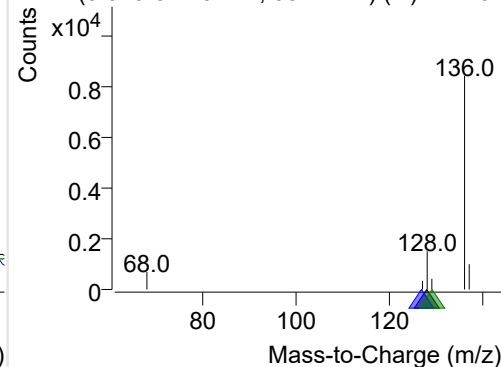
+ Selected Ion (128.0) 221107-PAHs-014.D



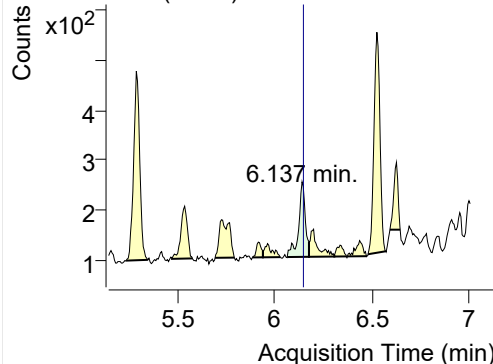
128.0, 127.0, 129.0



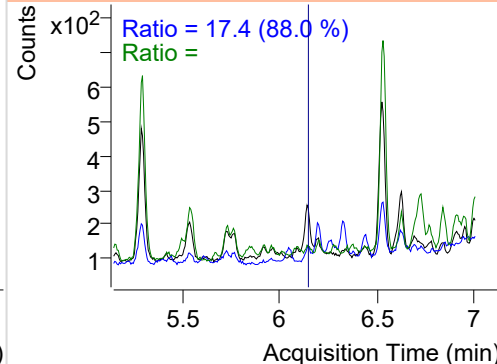
+ SIM (3.015-3.225 min, 38 scans) (**) 221107

**Acenaphthylene**

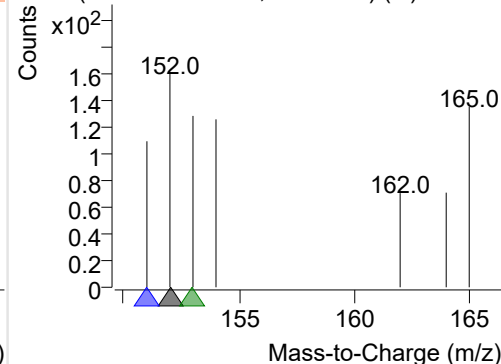
+ Selected Ion (152.0) 221107-PAHs-014.D



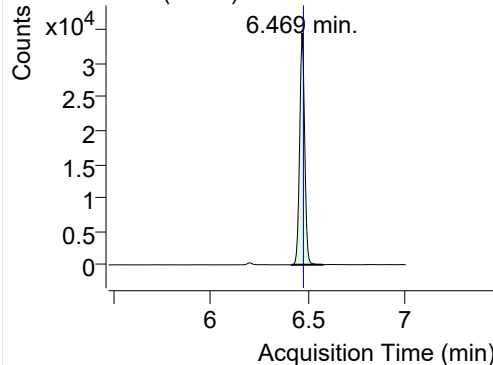
152.0, 151.0, 153.0



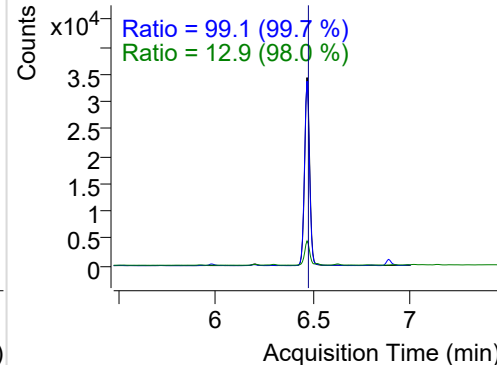
+ SIM (6.061-6.173 min, 19 scans) (**) 221107

**IS-D10-Acenaphthene**

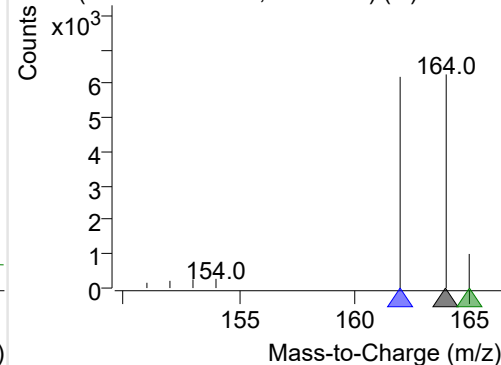
+ Selected Ion (164.0) 221107-PAHs-014.D



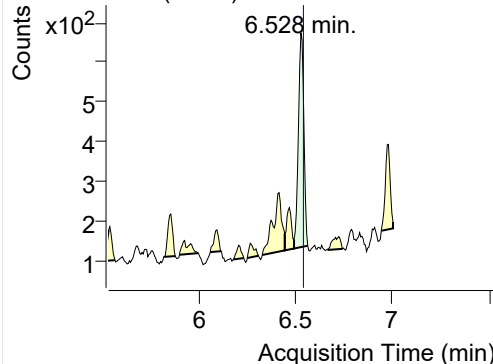
164.0, 162.0, 165.0



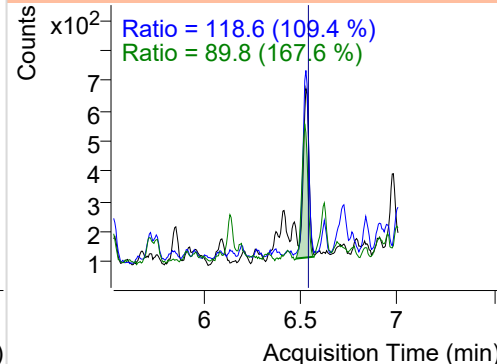
+ SIM (6.416-6.575 min, 28 scans) (**) 221107

**Acenaphthene**

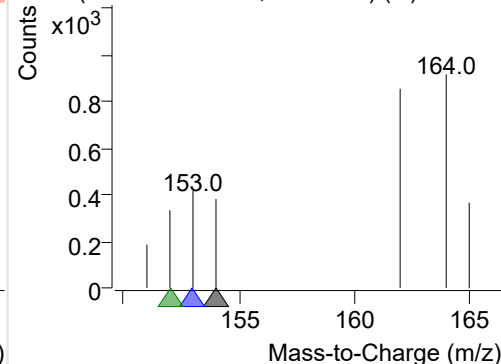
+ Selected Ion (154.0) 221107-PAHs-014.D



154.0, 153.0, 152.0

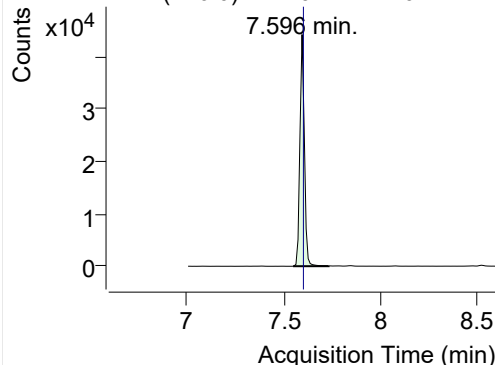


+ SIM (6.493-6.563 min, 12 scans) (**) 221107

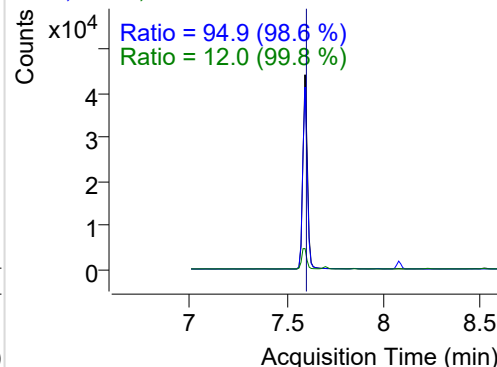


LSS-D10-Fluorene

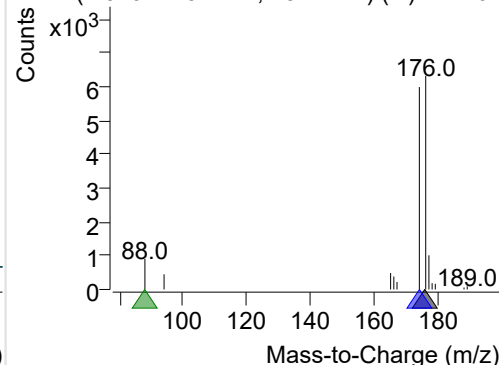
+ Selected Ion (176.0) 221107-PAHs-014.D



176.0, 174.0, 88.0

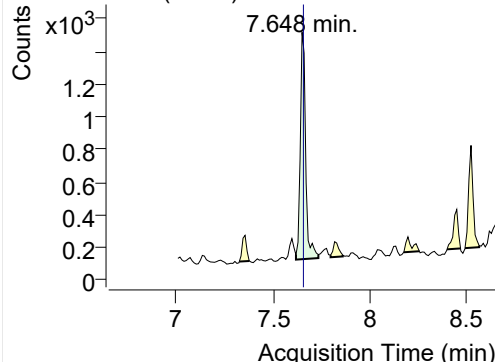


+ SIM (7.549-7.732 min, 18 scans) (**) 221107

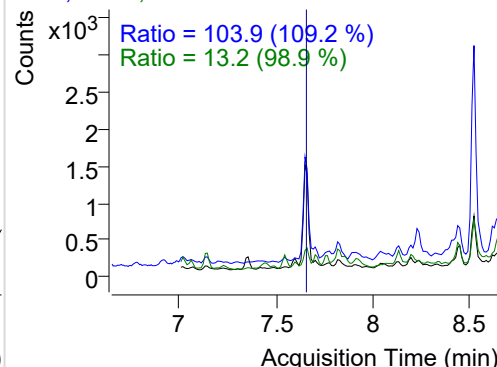


Fluorene

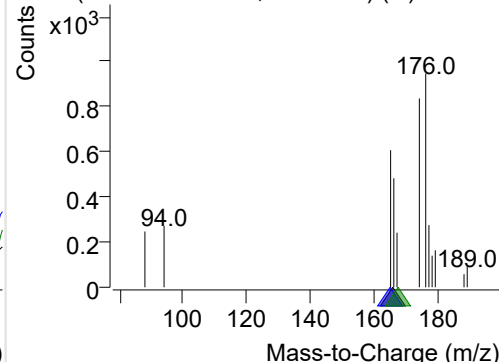
+ Selected Ion (166.0) 221107-PAHs-014.D



166.0, 165.0, 167.0

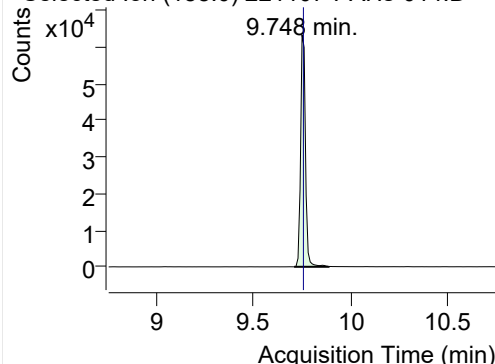


+ SIM (7.617-7.732 min, 12 scans) (**) 221107

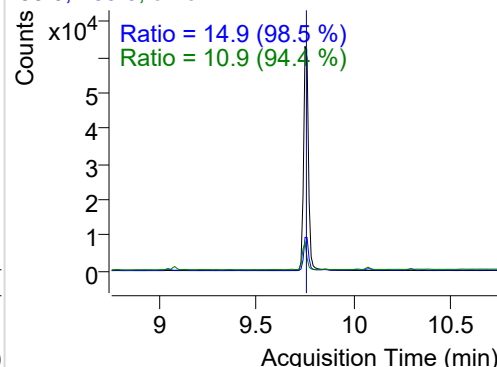


IS-D10-Phenanthrene

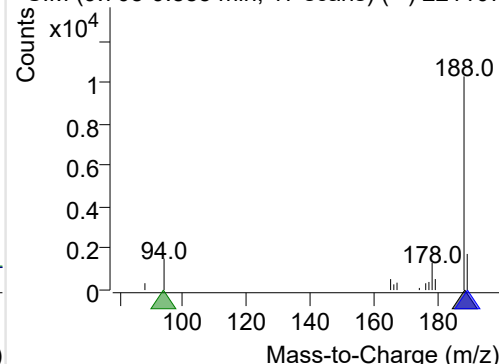
+ Selected Ion (188.0) 221107-PAHs-014.D



188.0, 189.0, 94.0

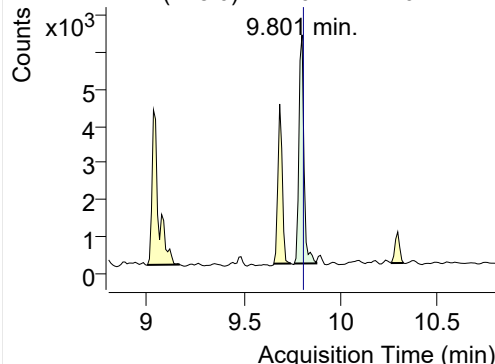


+ SIM (9.708-9.885 min, 17 scans) (**) 221107

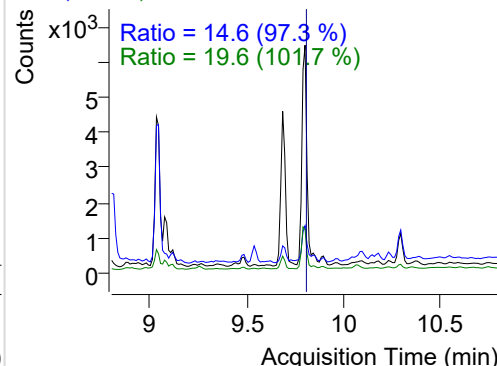


Phenanthrene

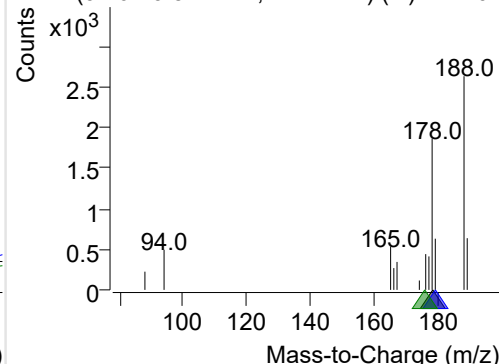
+ Selected Ion (178.0) 221107-PAHs-014.D



178.0, 179.0, 176.0

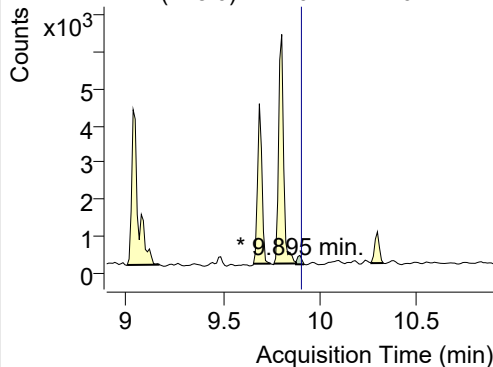


+ SIM (9.761-9.874 min, 11 scans) (**) 221107

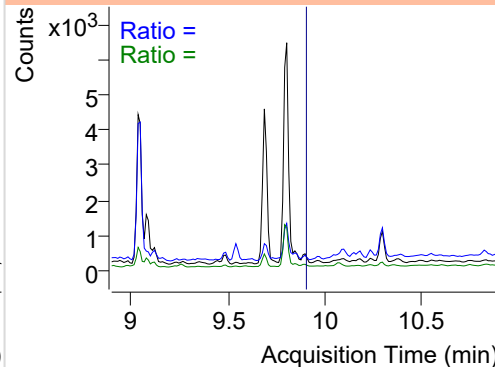


Anthracene

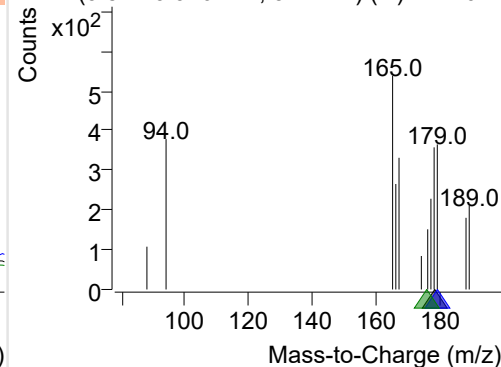
+ Selected Ion (178.0) 221107-PAHs-014.D



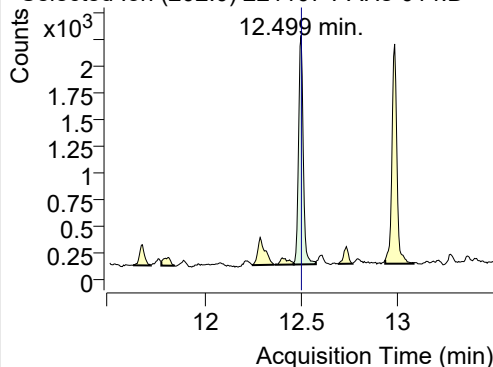
178.0, 179.0, 176.0



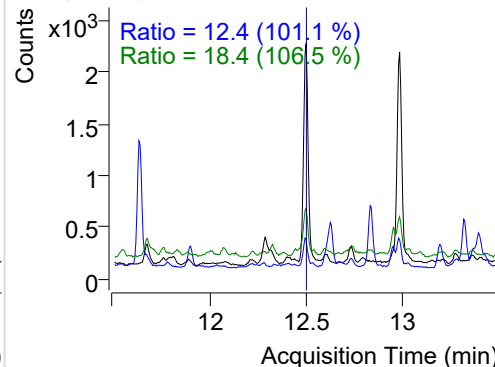
+ SIM (9.874-9.916 min, 5 scans) (**) 221107-I

**Fluoranthene**

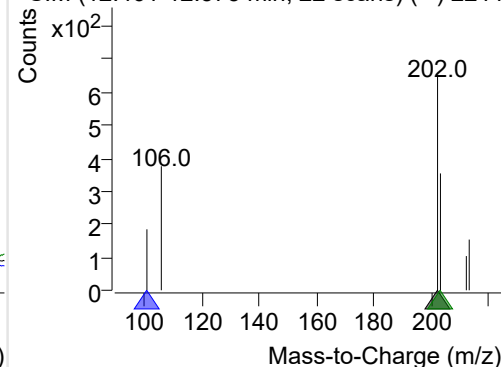
+ Selected Ion (202.0) 221107-PAHs-014.D



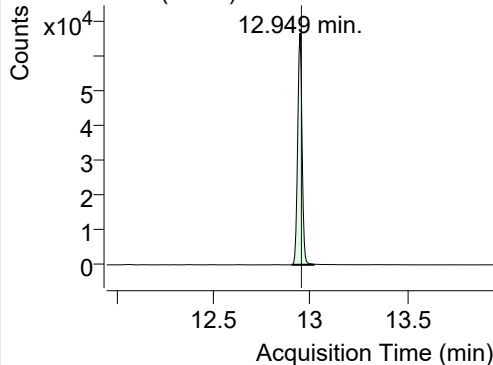
202.0, 101.0, 203.0



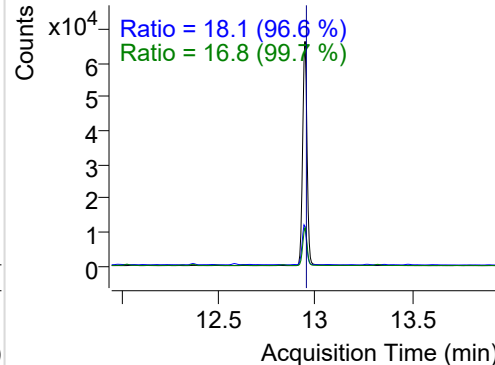
+ SIM (12.461-12.575 min, 22 scans) (**) 2211

**LSS-D10-Pyrene**

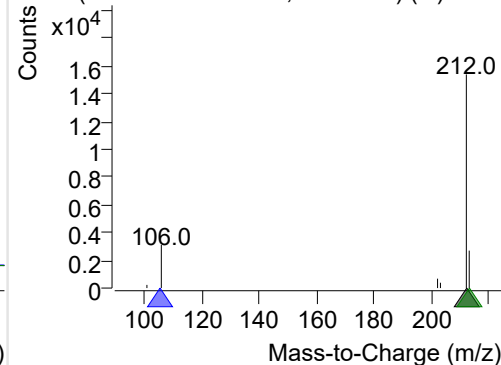
+ Selected Ion (212.0) 221107-PAHs-014.D



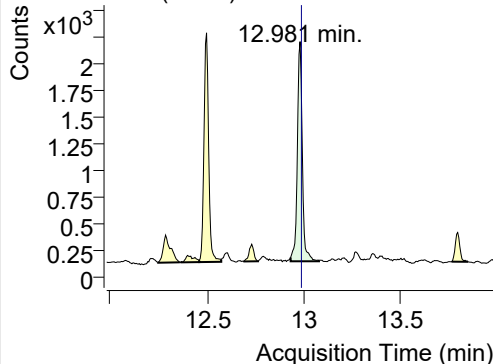
212.0, 106.0, 213.0



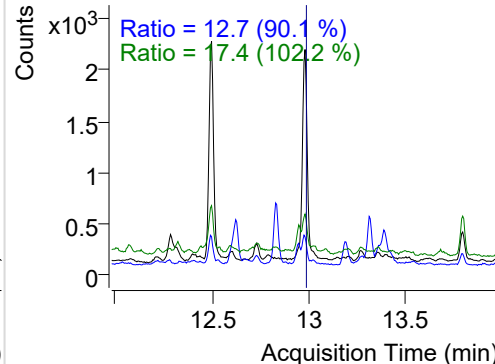
+ SIM (12.906-13.019 min, 21 scans) (**) 2211

**Pyrene**

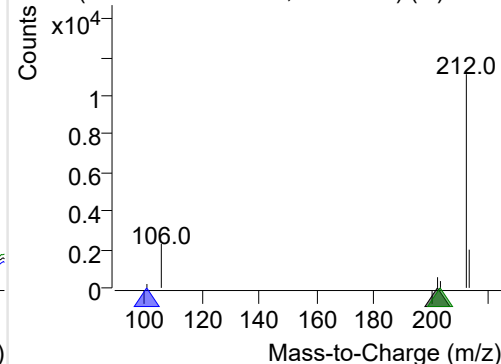
+ Selected Ion (202.0) 221107-PAHs-014.D



202.0, 101.0, 203.0



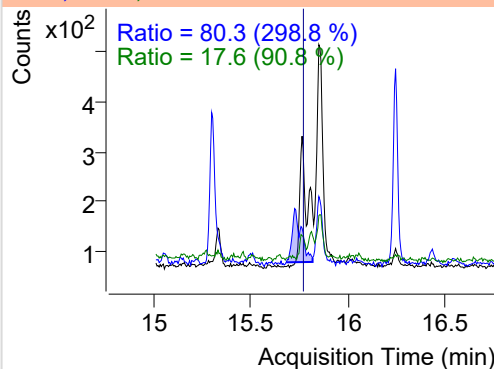
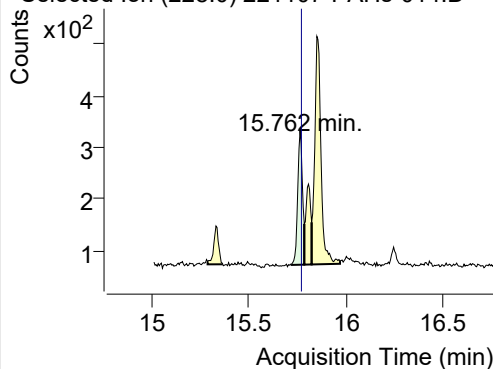
+ SIM (12.933-13.079 min, 28 scans) (**) 2211



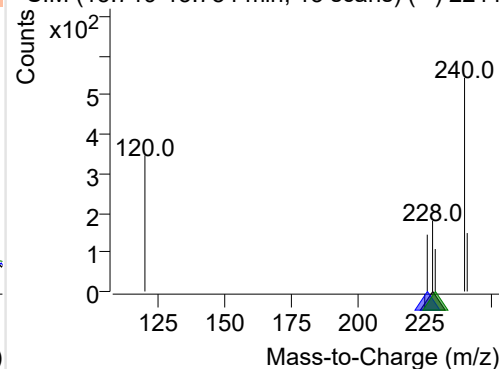
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-014.D

228.0, 226.0, 229.0

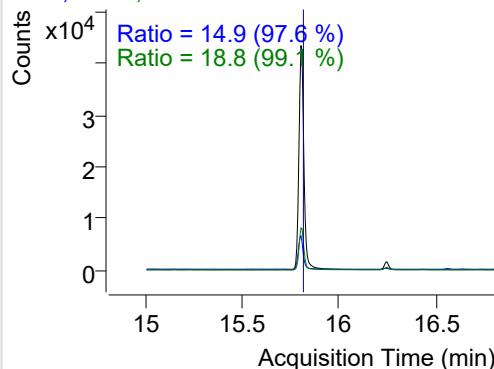
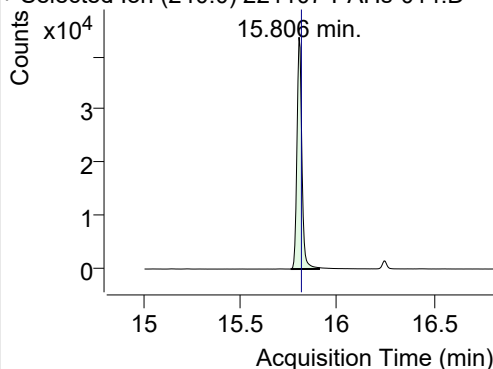


+ SIM (15.719-15.784 min, 13 scans) (**) 2211

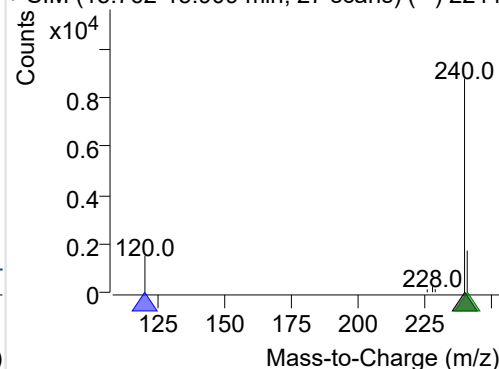
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-014.D

240.0, 120.0, 241.0

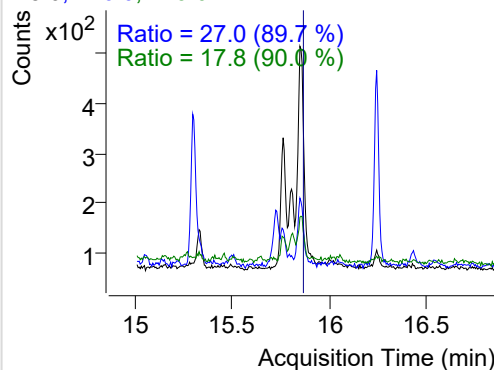
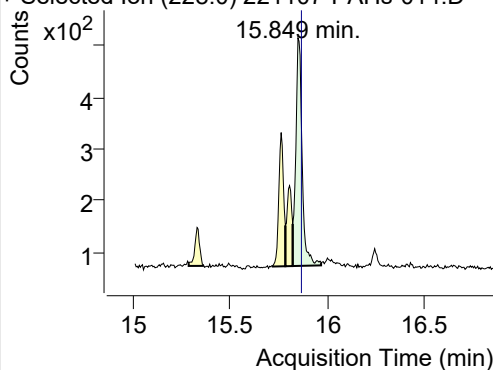


+ SIM (15.762-15.909 min, 27 scans) (**) 2211

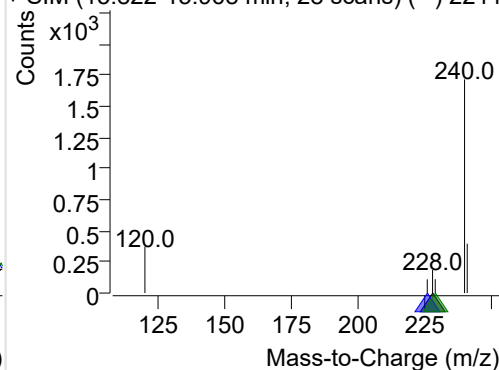
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-014.D

228.0, 226.0, 229.0

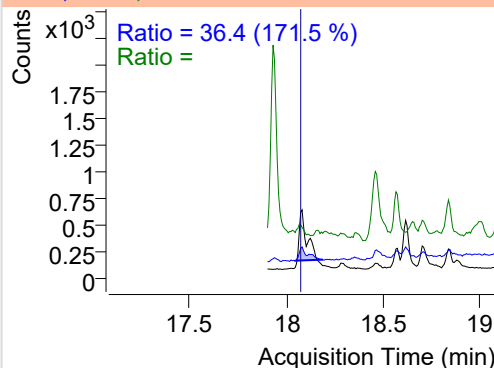
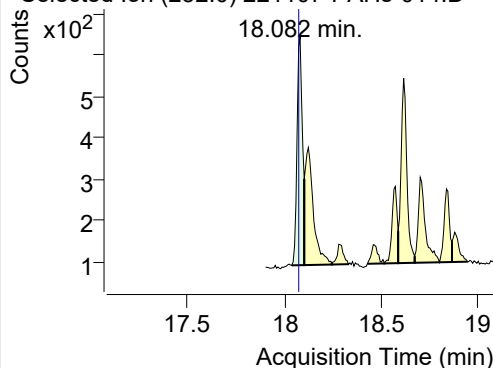


+ SIM (15.822-15.968 min, 28 scans) (**) 2211

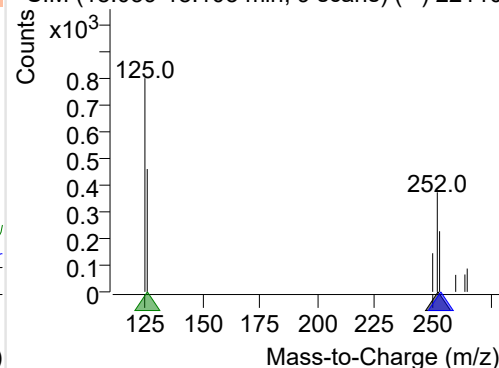
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-014.D

252.0, 253.0, 126.0



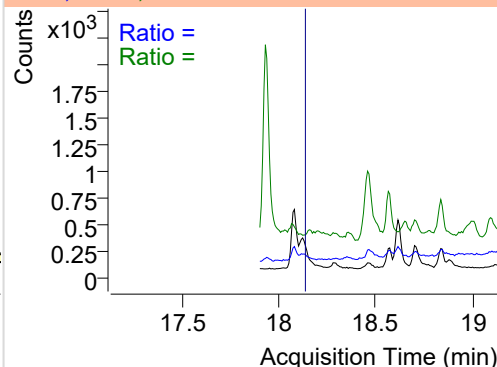
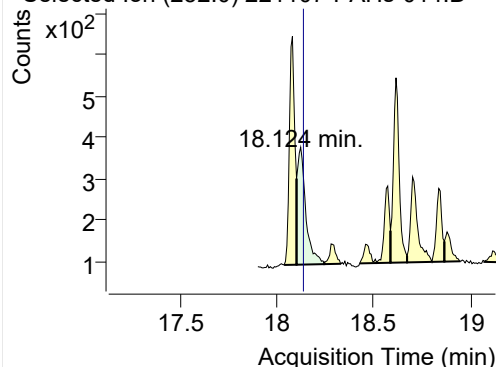
+ SIM (18.039-18.103 min, 9 scans) (**) 22110



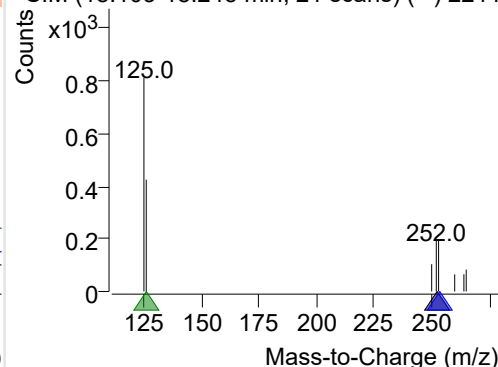
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-014.D

252.0, 253.0, 126.0

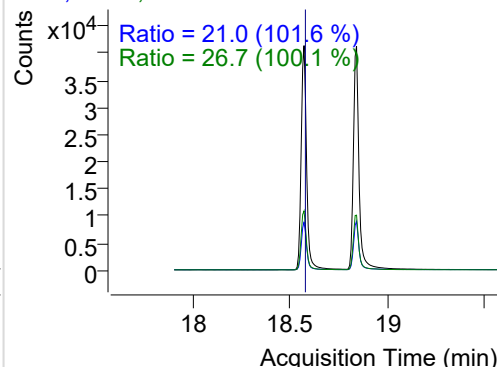
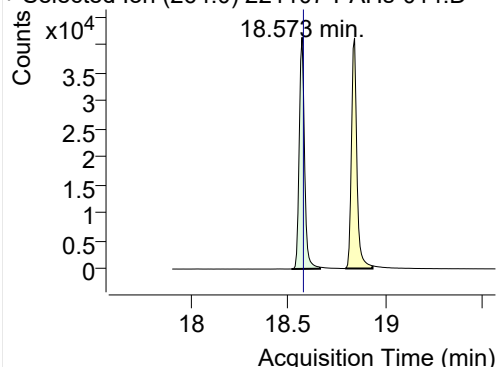


+ SIM (18.103-18.245 min, 21 scans) (**) 2211

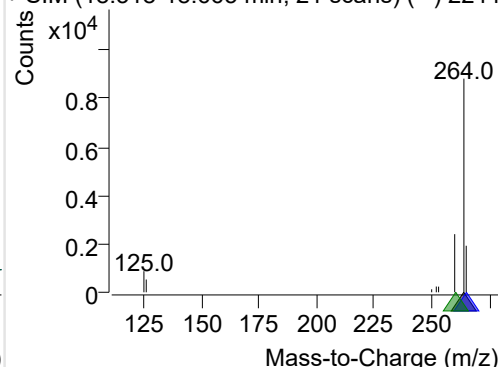
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-014.D

264.0, 265.0, 260.0

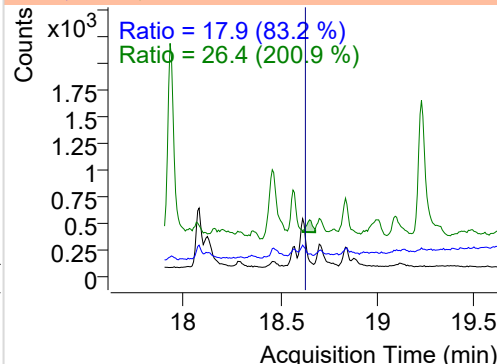
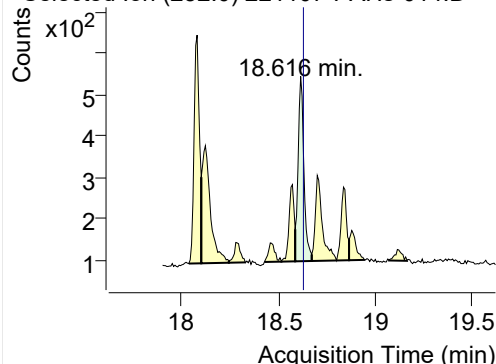


+ SIM (18.518-18.665 min, 21 scans) (**) 2211

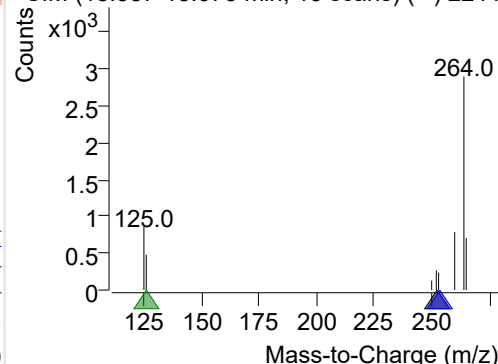
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-014.D

252.0, 253.0, 126.0

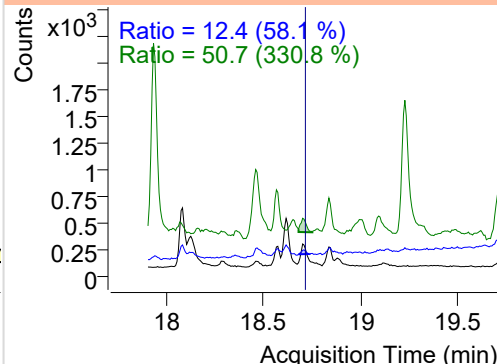
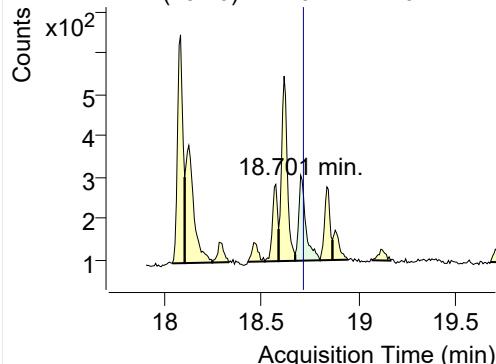


+ SIM (18.587-18.673 min, 13 scans) (**) 2211

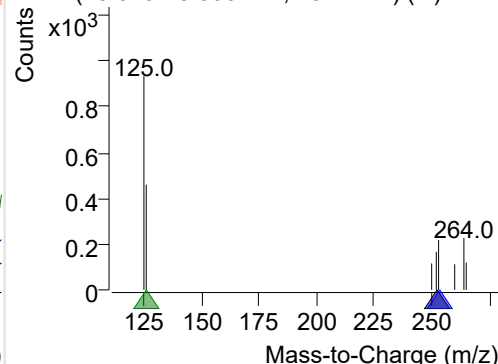
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-014.D

252.0, 253.0, 126.0

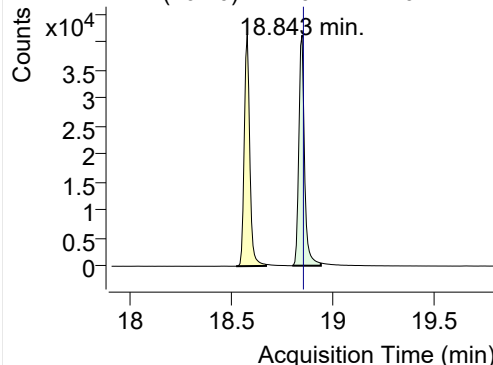


+ SIM (18.673-18.800 min, 18 scans) (**) 2211

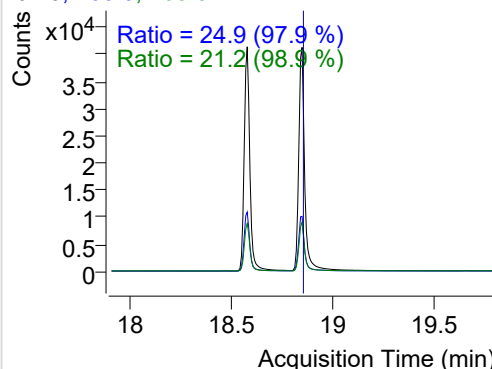


IS-D12-Perylene

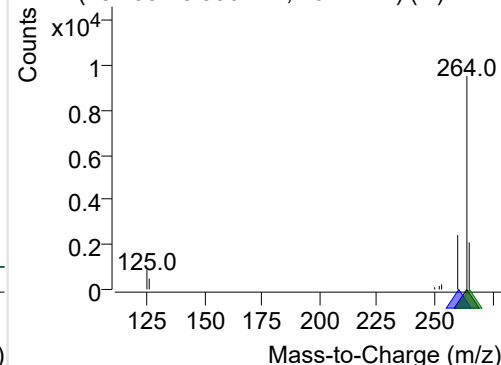
+ Selected Ion (264.0) 221107-PAHs-014.D



264.0, 260.0, 265.0

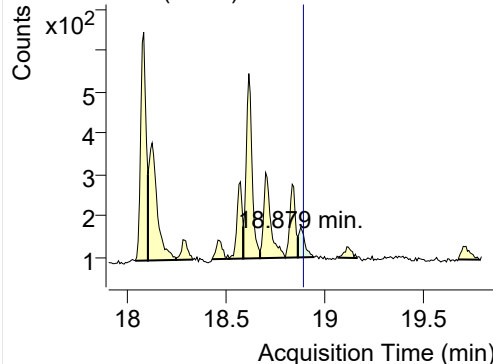


+ SIM (18.795-18.936 min, 20 scans) (**) 2211

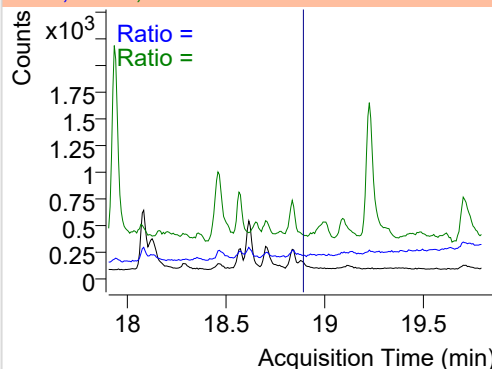


Perylene

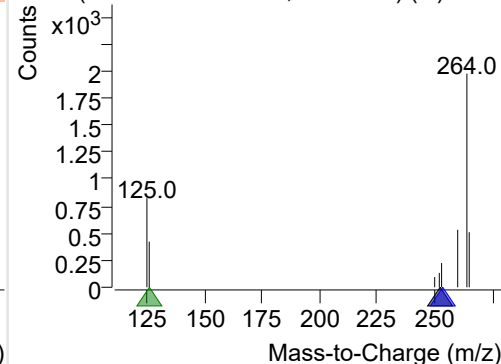
+ Selected Ion (252.0) 221107-PAHs-014.D



252.0, 253.0, 126.0

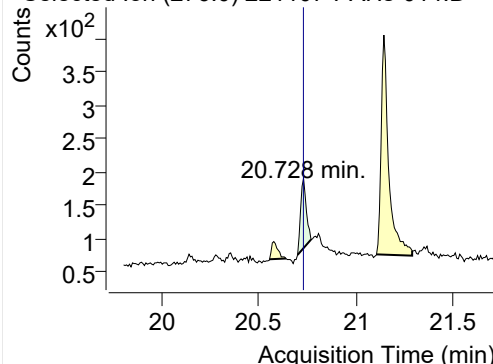


+ SIM (18.865-18.943 min, 12 scans) (**) 2211

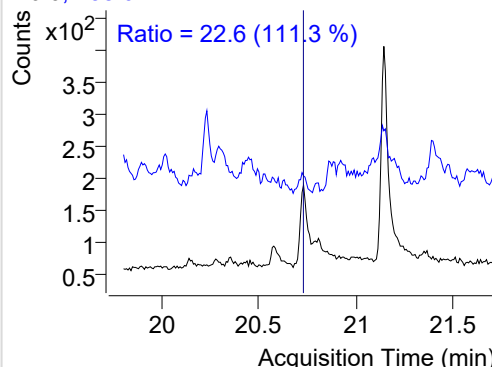


Indeno(1,2,3-c,d)pyrene

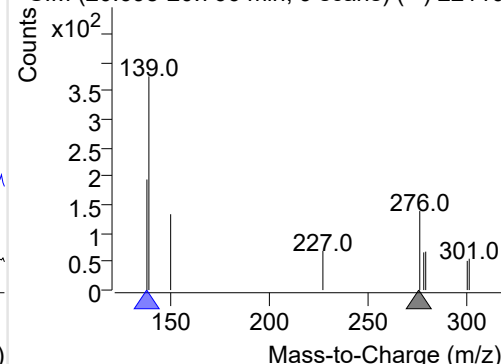
+ Selected Ion (276.0) 221107-PAHs-014.D



276.0, 138.0

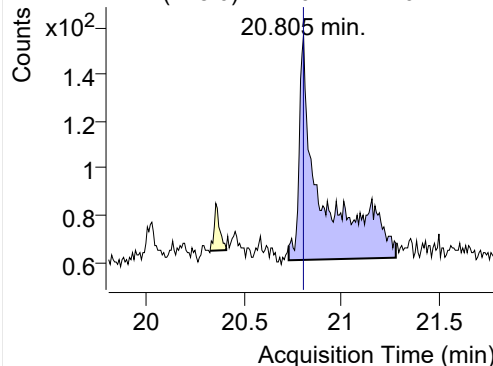


+ SIM (20.698-20.766 min, 9 scans) (**) 22110

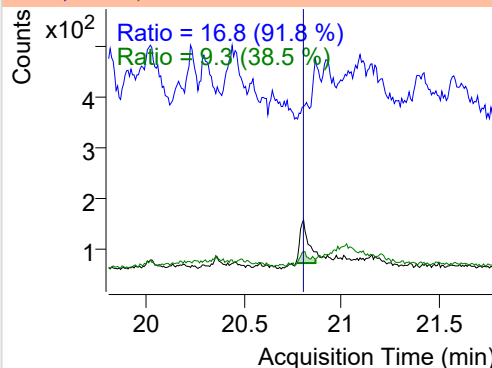


Dibenz(a,h)anthracene

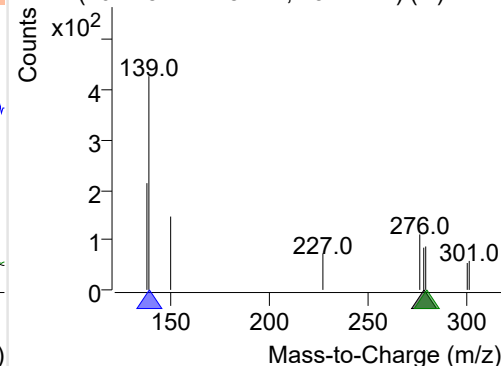
+ Selected Ion (278.0) 221107-PAHs-014.D



278.0, 139.0, 279.0

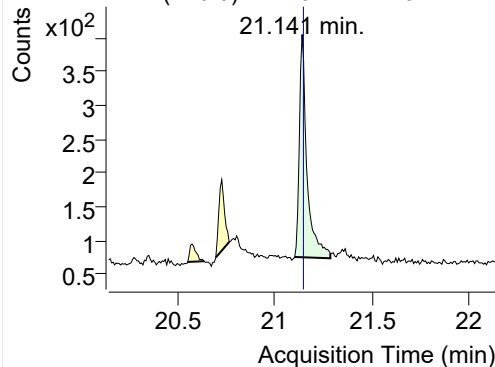


+ SIM (20.728-21.278 min, 73 scans) (**) 2211

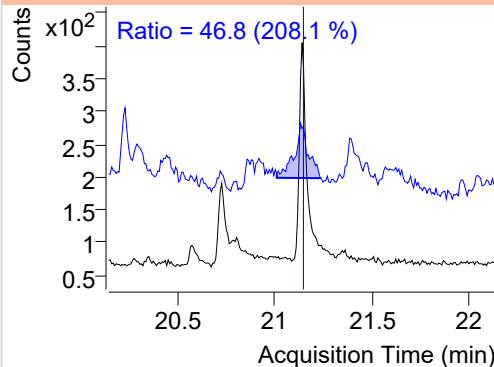


Benzo(g,h,i)perylene

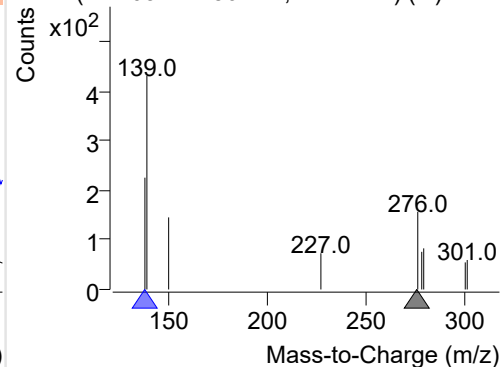
+ Selected Ion (276.0) 221107-PAHs-014.D



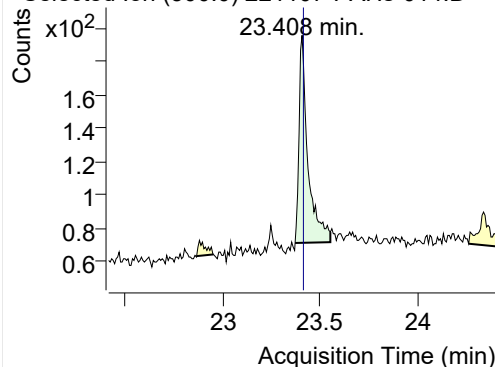
276.0, 138.0



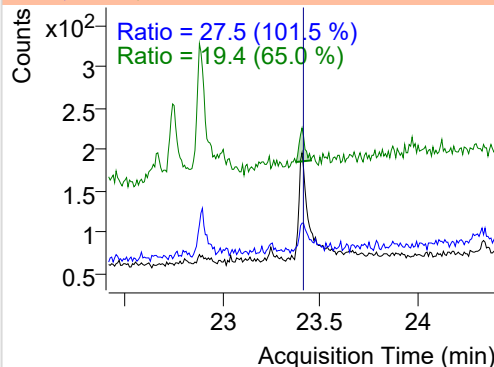
+ SIM (21.103-21.286 min, 24 scans) (**) 2211

**Coronene**

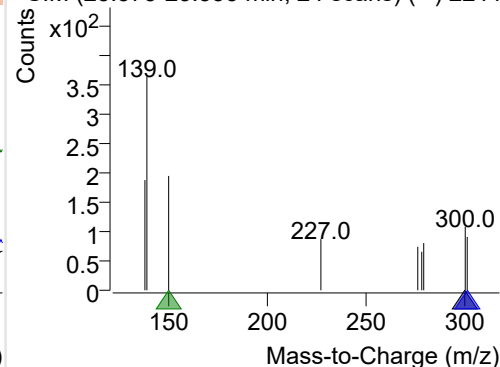
+ Selected Ion (300.0) 221107-PAHs-014.D



300.0, 301.0, 150.0



+ SIM (23.373-23.553 min, 24 scans) (**) 2211



Quantitative Analysis Sample Based Report

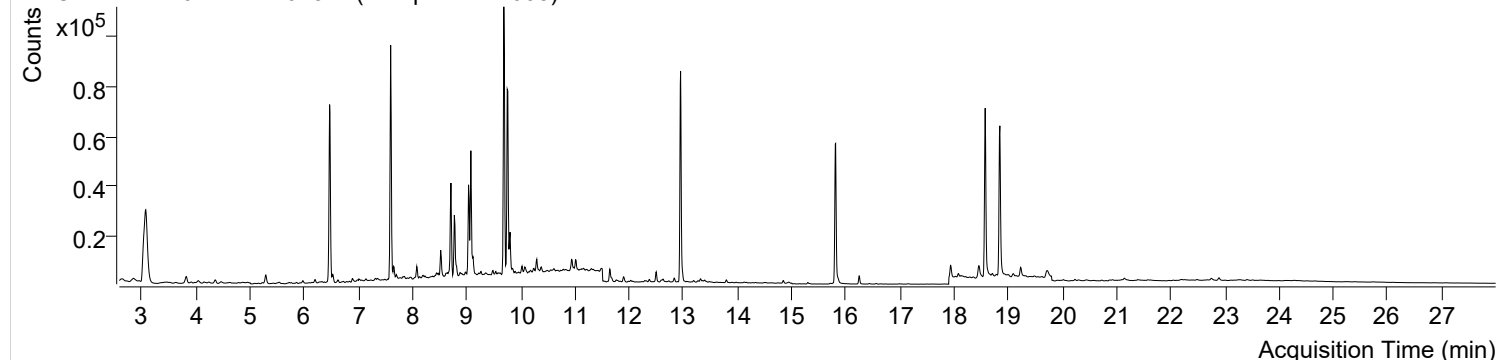


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-07 오후 11:16:42	Data File	221107-PAHs-015.D
Type	Sample	Name	Sample-PM-1008
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

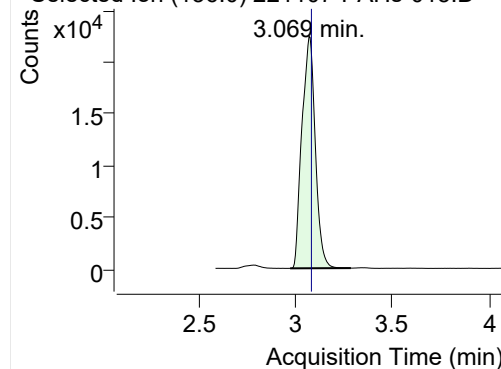
+ TIC SIM 221107-PAHs-015.D (Sample-PM-1008)



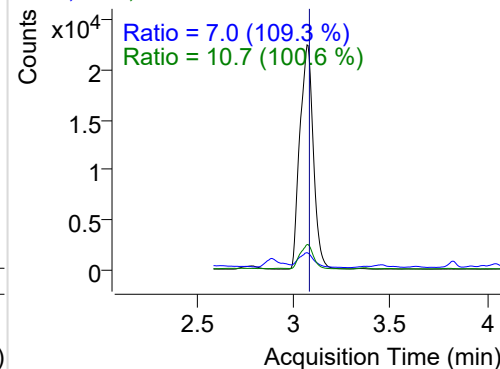
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	107263	22418.71	ND ng/ml	10.7
Naphthalene	3.096	128.0	15239	3252.92	ND ng/ml	13.1
Acenaphthylene	6.143	152.0	550	249.53	ND ng/ml	
IS-D10-Acenaphthene	6.469	164.0	61375	33597.49	ND ng/ml	98.8
Acenaphthene	6.528	154.0	1683	842.25	ND ng/ml	104.4
LSS-D10-Fluorene	7.596	176.0	68276	41757.49	ND ng/ml	95.0
Fluorene	7.648	166.0	4218	2171.39	ND ng/ml	102.0
IS-D10-Phenanthrene	9.759	188.0	106290	59888.23	ND ng/ml	15.3
Phenanthrene	9.801	178.0	17561	10344.97	ND ng/ml	19.6
Anthracene	9.895	178.0	676	424.69	ND ng/ml	
Fluoranthene	12.499	202.0	4854	2959.96	ND ng/ml	16.6
LSS-D10-Pyrene	12.949	212.0	100016	62736.76	ND ng/ml	18.0
Pyrene	12.982	202.0	4667	2710.11	ND ng/ml	16.3
Benz(a)anthracene	15.762	228.0	517	285.98	ND ng/ml	120.8
IS-D12-Chrysene	15.811	240.0	76791	42572.15	ND ng/ml	18.8
Chrysene	15.854	228.0	1751	843.51	ND ng/ml	29.2
Benzo(b)fluoranthene	18.082	252.0	1731	916.24	ND ng/ml	22.9
Benzo(k)fluoranthene	18.124	252.0	1484	526.20	ND ng/ml	19.4
SS-D12-Benzo(e)pyrene	18.573	264.0	82358	45563.31	ND ng/ml	26.2
Benzo(e)pyrene	18.616	252.0	1436	684.24	ND ng/ml	22.9
Benzo(a)pyrene	18.708	252.0	789	299.24	ND ng/ml	14.5
IS-D12-Perylene	18.843	264.0	81455	41244.02	ND ng/ml	24.6
Perylene	18.879	252.0	202	89.87	ND ng/ml	32.2
Indeno(1,2,3-c,d)pyrene	20.728	276.0	813	239.60	ND ng/ml	5.8
Dibenz(a,h)anthracene	20.805	278.0	316	80.81	ND ng/ml	9.1
Benzo(g,h,i)perylene	21.141	276.0	1393	555.26	ND ng/ml	24.0
Coronene	23.408	300.0	610	203.31	ND ng/ml	23.8

IS-D8-Naphthalene

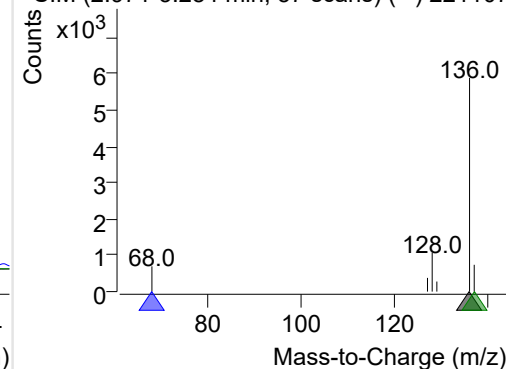
+ Selected Ion (136.0) 221107-PAHs-015.D



136.0, 68.0, 137.0

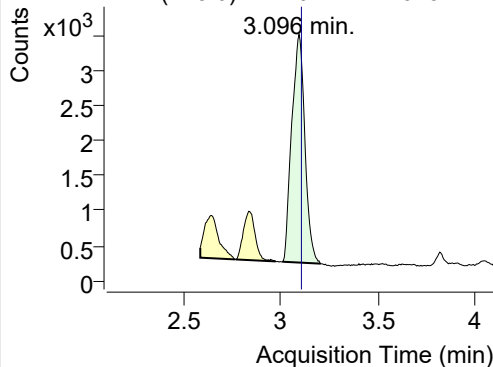


+ SIM (2.971-3.284 min, 57 scans) (**) 221107

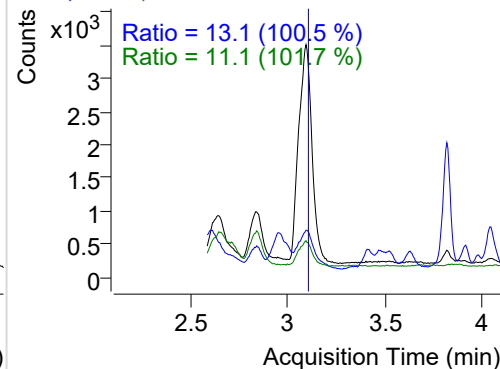


Naphthalene

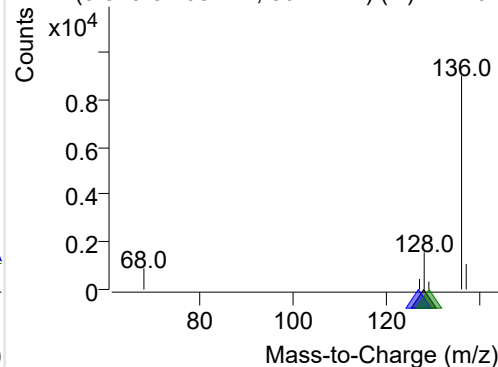
+ Selected Ion (128.0) 221107-PAHs-015.D



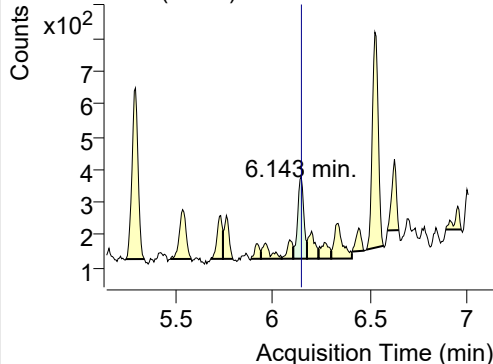
128.0, 127.0, 129.0



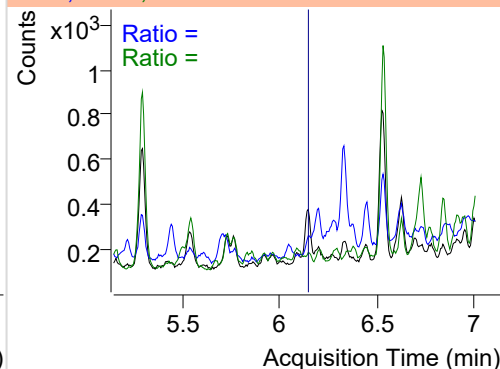
+ SIM (3.010-3.208 min, 36 scans) (**) 221107

**Acenaphthylene**

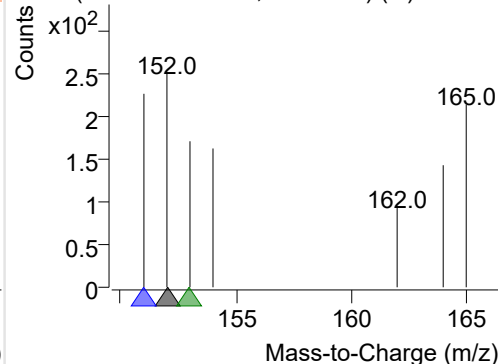
+ Selected Ion (152.0) 221107-PAHs-015.D



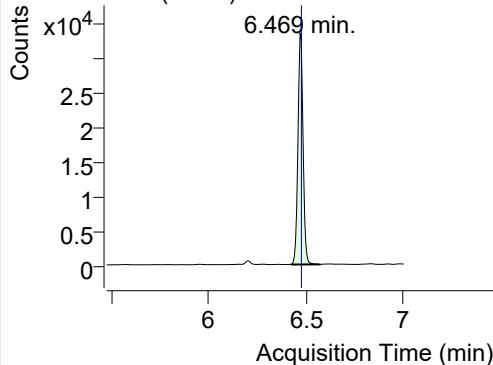
152.0, 151.0, 153.0



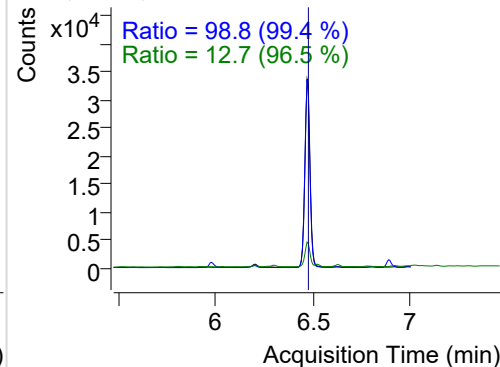
+ SIM (6.102-6.173 min, 13 scans) (**) 221107

**IS-D10-Acenaphthene**

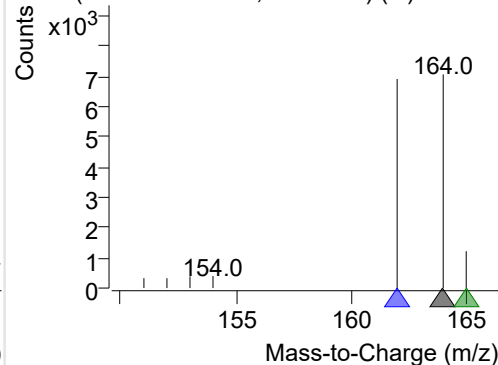
+ Selected Ion (164.0) 221107-PAHs-015.D



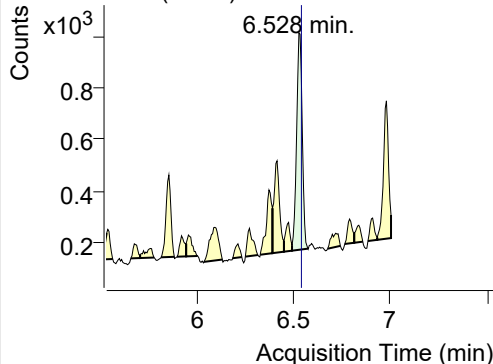
164.0, 162.0, 165.0



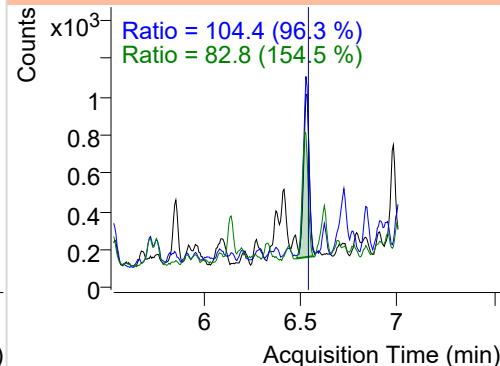
+ SIM (6.428-6.570 min, 25 scans) (**) 221107

**Acenaphthene**

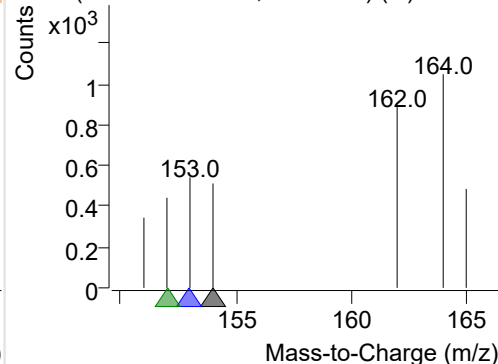
+ Selected Ion (154.0) 221107-PAHs-015.D



154.0, 153.0, 152.0

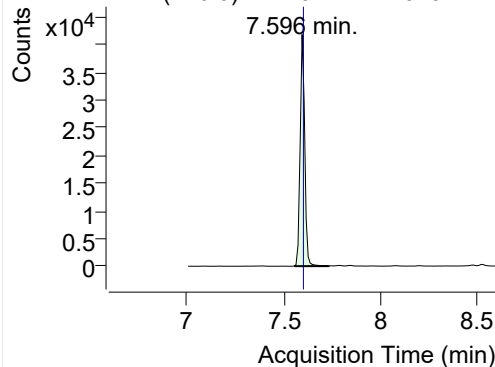


+ SIM (6.493-6.574 min, 14 scans) (**) 221107

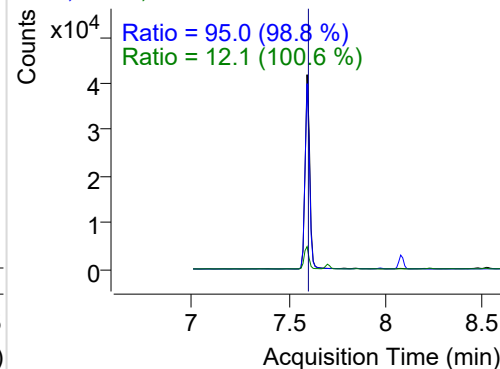


LSS-D10-Fluorene

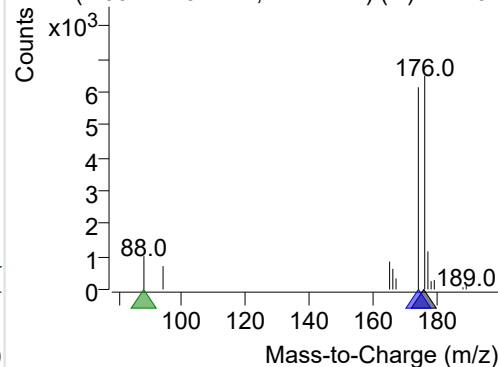
+ Selected Ion (176.0) 221107-PAHs-015.D



176.0, 174.0, 88.0

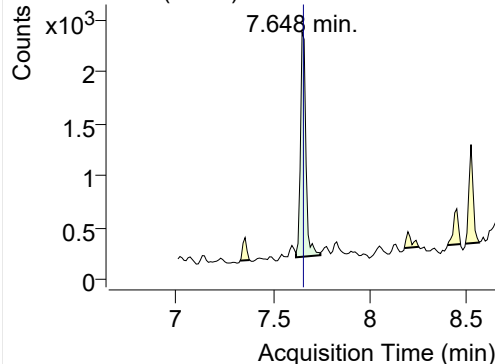


+ SIM (7.554-7.732 min, 17 scans) (**) 221107

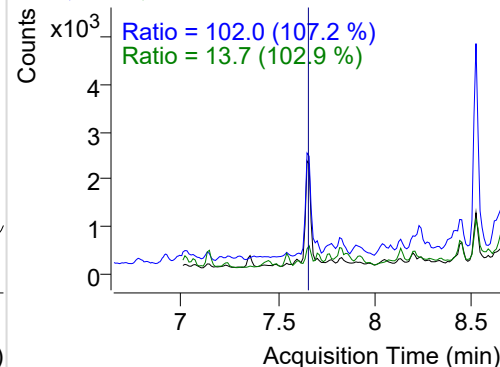


Fluorene

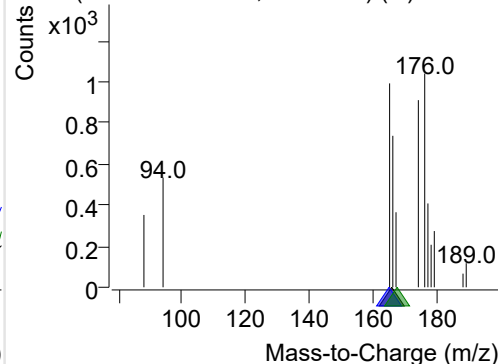
+ Selected Ion (166.0) 221107-PAHs-015.D



166.0, 165.0, 167.0

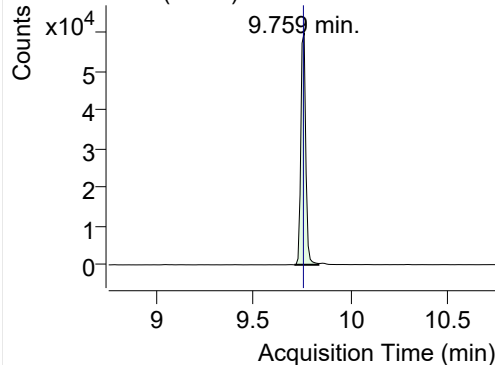


+ SIM (7.617-7.743 min, 13 scans) (**) 221107

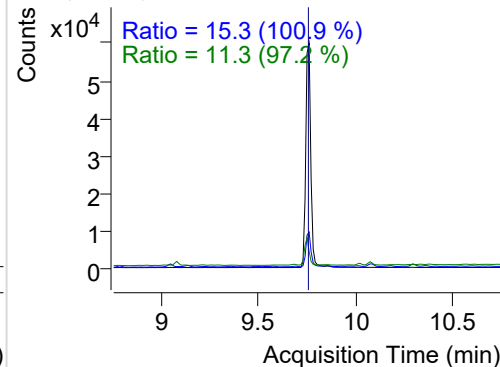


IS-D10-Phenanthrene

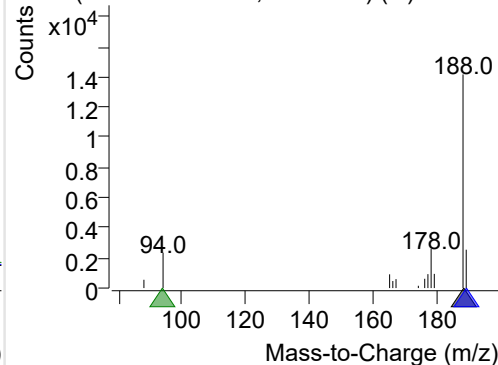
+ Selected Ion (188.0) 221107-PAHs-015.D



188.0, 189.0, 94.0

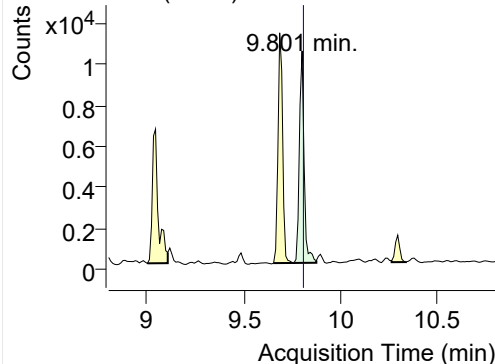


+ SIM (9.709-9.832 min, 12 scans) (**) 221107

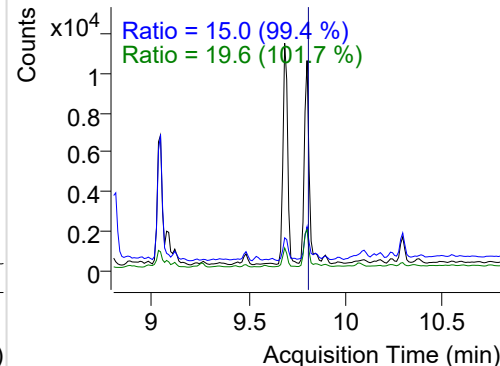


Phenanthrene

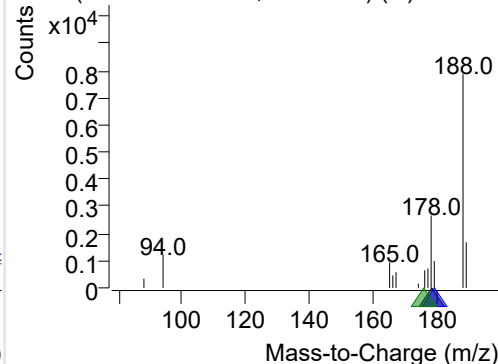
+ Selected Ion (178.0) 221107-PAHs-015.D



178.0, 179.0, 176.0

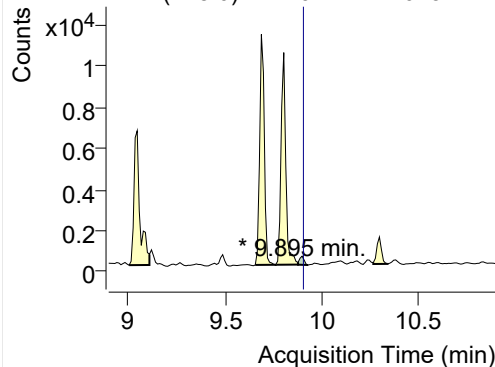


+ SIM (9.759-9.874 min, 12 scans) (**) 221107

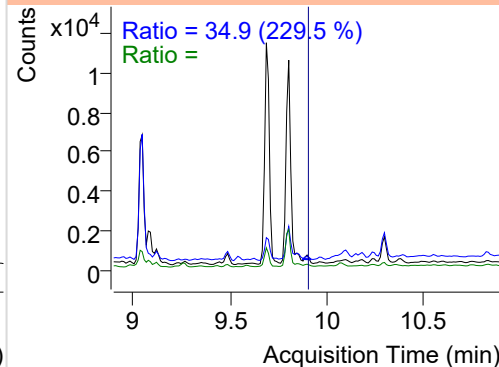


Anthracene

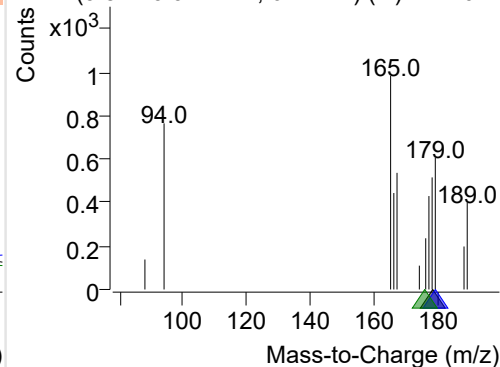
+ Selected Ion (178.0) 221107-PAHs-015.D



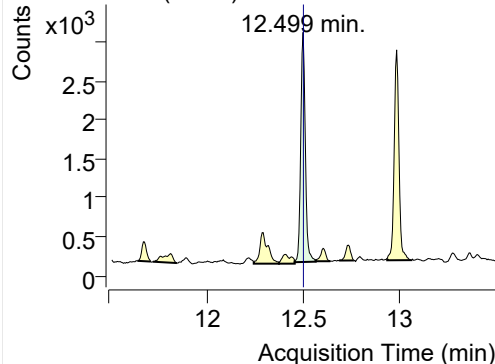
178.0, 179.0, 176.0



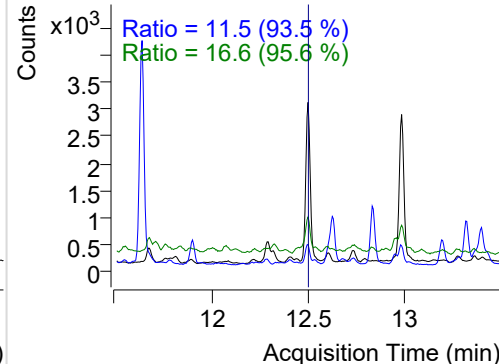
+ SIM (9.874-9.927 min, 6 scans) (**) 221107-I

**Fluoranthene**

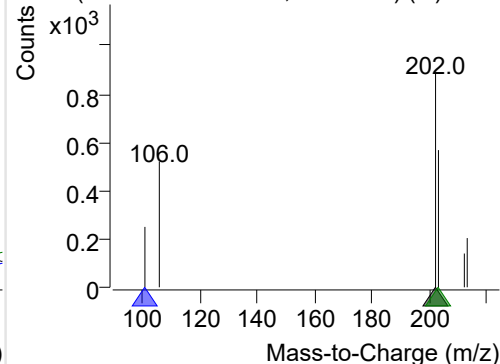
+ Selected Ion (202.0) 221107-PAHs-015.D



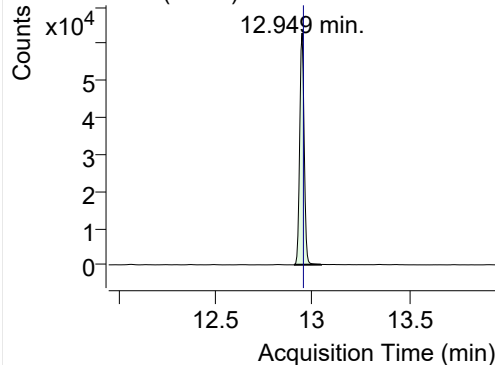
202.0, 101.0, 203.0



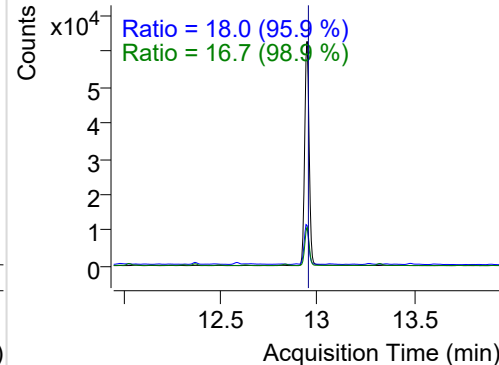
+ SIM (12.456-12.564 min, 21 scans) (**) 2211

**LSS-D10-Pyrene**

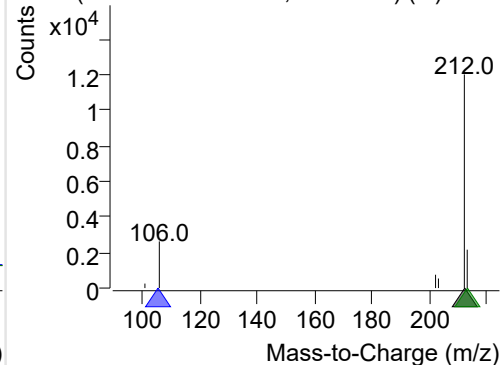
+ Selected Ion (212.0) 221107-PAHs-015.D



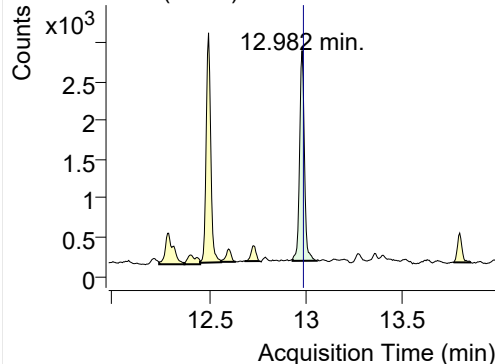
212.0, 106.0, 213.0



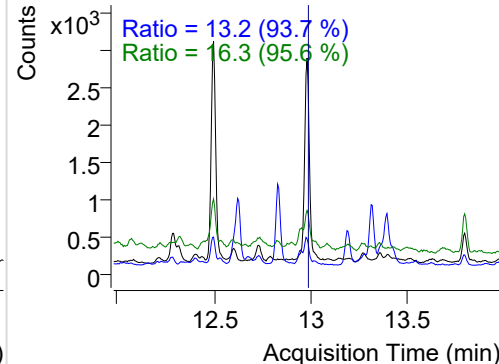
+ SIM (12.907-13.047 min, 26 scans) (**) 2211

**Pyrene**

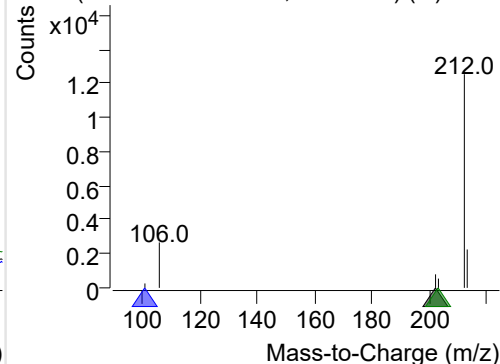
+ Selected Ion (202.0) 221107-PAHs-015.D



202.0, 101.0, 203.0



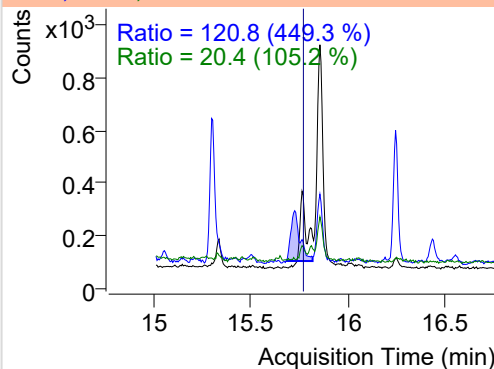
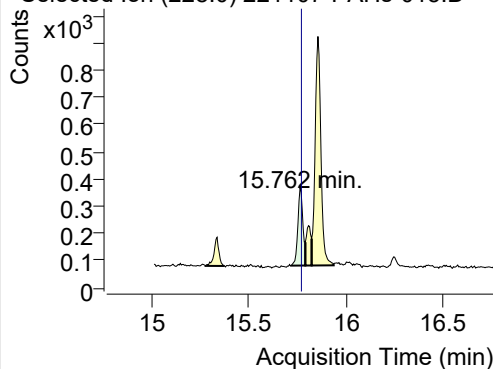
+ SIM (12.933-13.057 min, 24 scans) (**) 2211



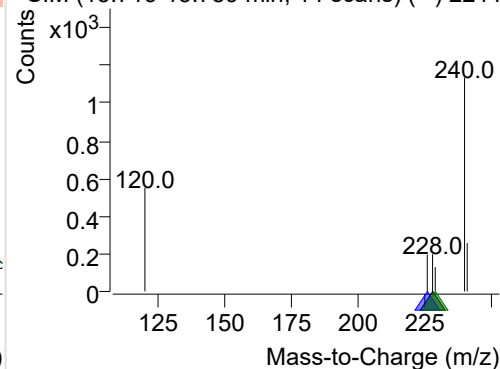
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-015.D

228.0, 226.0, 229.0

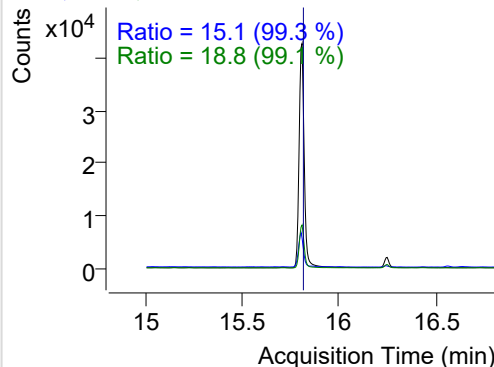
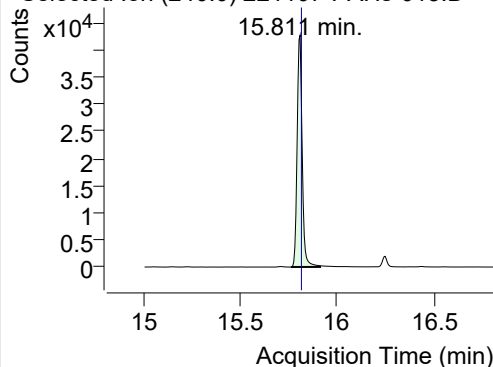


+ SIM (15.716-15.789 min, 14 scans) (**) 2211

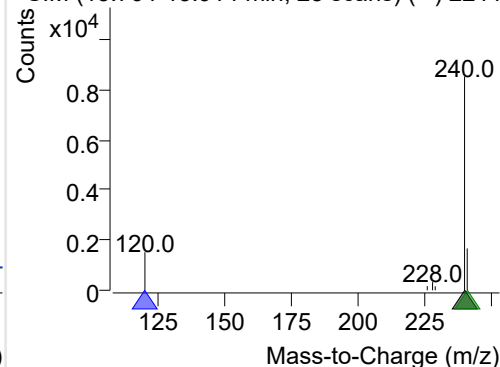
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-015.D

240.0, 120.0, 241.0

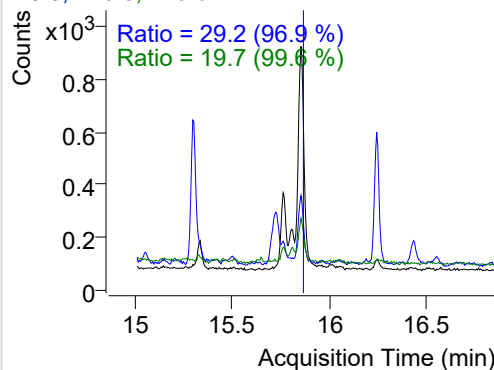
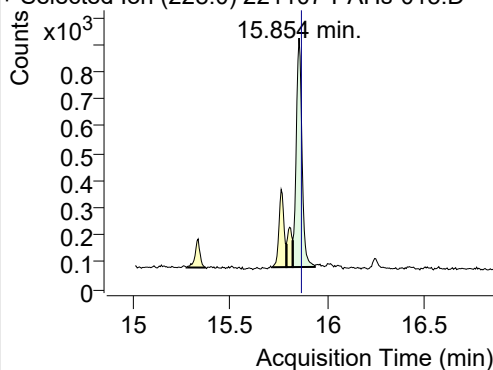


+ SIM (15.764-15.914 min, 28 scans) (**) 2211

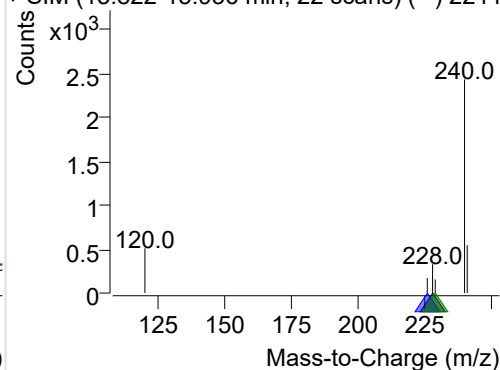
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-015.D

228.0, 226.0, 229.0

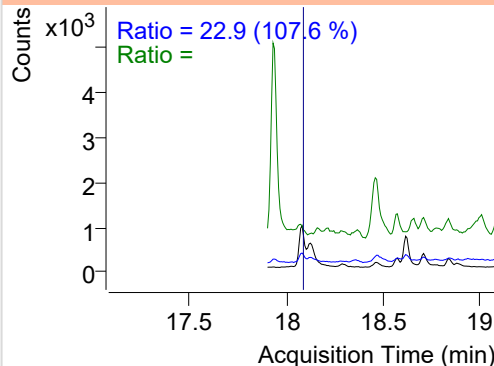
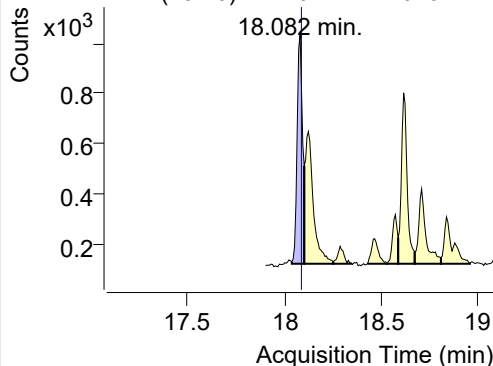


+ SIM (15.822-15.936 min, 22 scans) (**) 2211

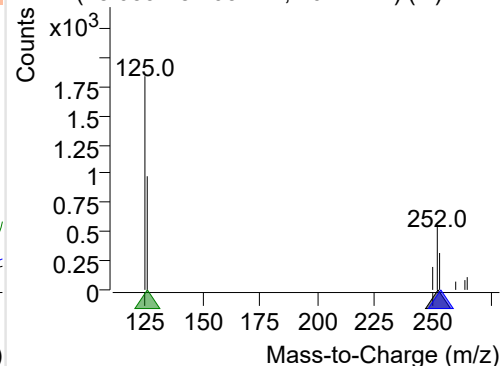
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-015.D

252.0, 253.0, 126.0

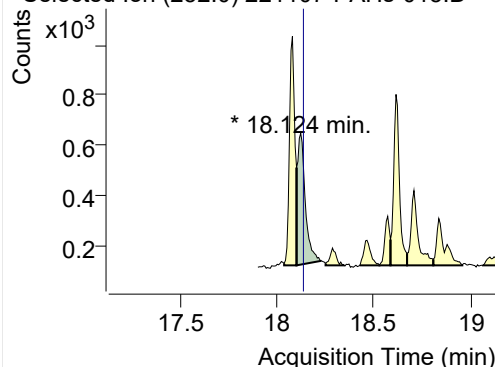


+ SIM (18.039-18.103 min, 10 scans) (**) 2211

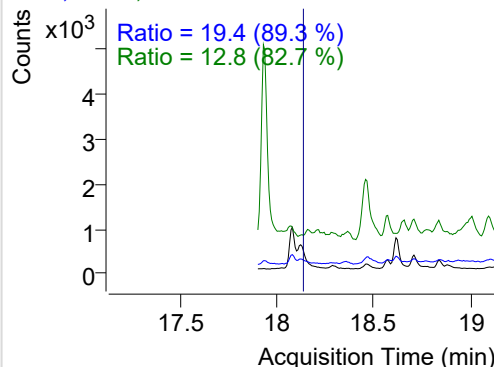


Benzo(k)fluoranthene

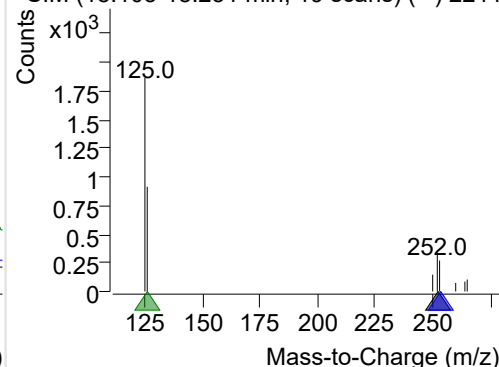
+ Selected Ion (252.0) 221107-PAHs-015.D



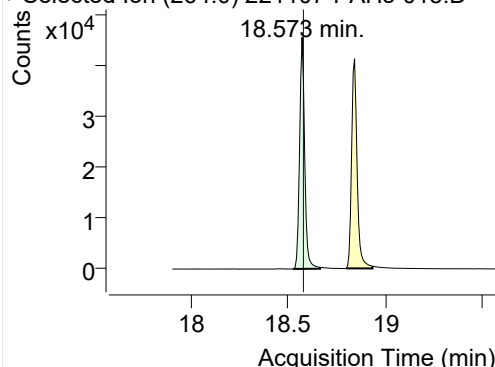
252.0, 253.0, 126.0



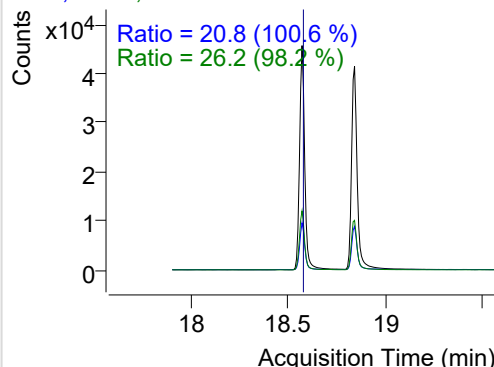
+ SIM (18.103-18.231 min, 19 scans) (**) 2211

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

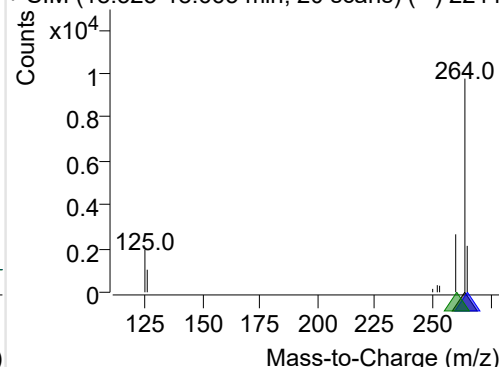
+ Selected Ion (264.0) 221107-PAHs-015.D



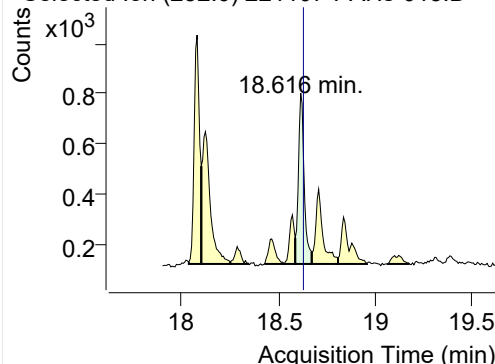
264.0, 265.0, 260.0



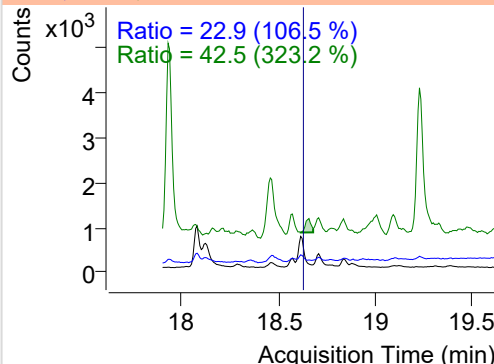
+ SIM (18.525-18.665 min, 20 scans) (**) 2211

**Benzo(e)pyrene**

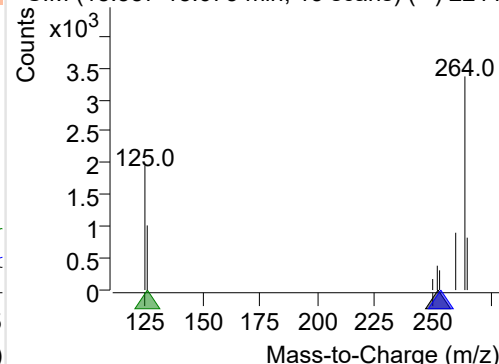
+ Selected Ion (252.0) 221107-PAHs-015.D



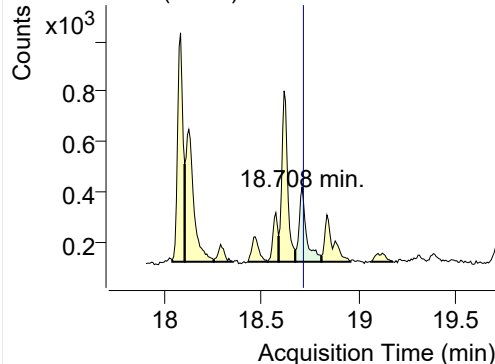
252.0, 253.0, 126.0



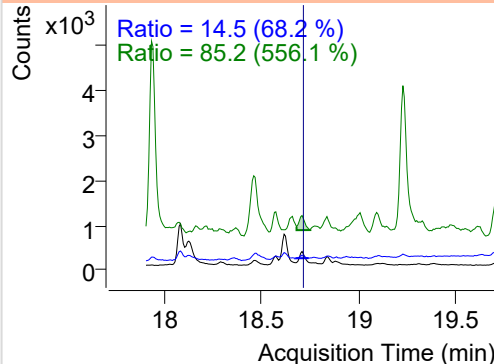
+ SIM (18.587-18.673 min, 13 scans) (**) 2211

**Benzo(a)pyrene**

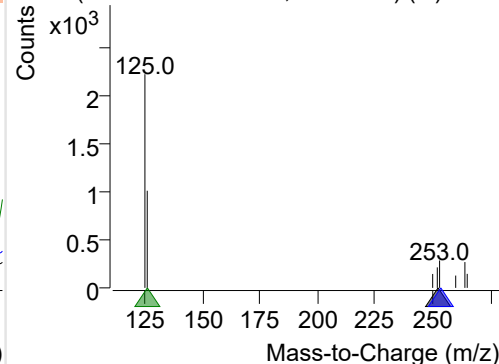
+ Selected Ion (252.0) 221107-PAHs-015.D



252.0, 253.0, 126.0

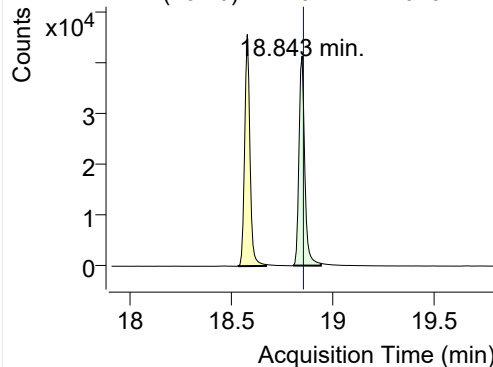


+ SIM (18.673-18.808 min, 20 scans) (**) 2211

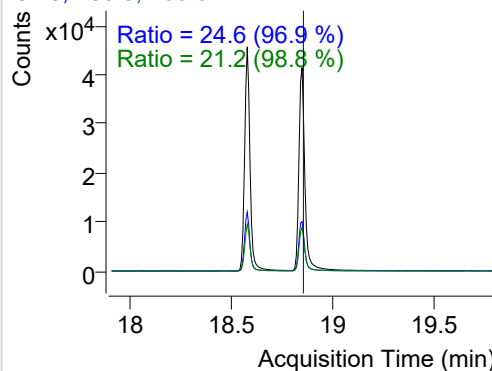


IS-D12-Perylene

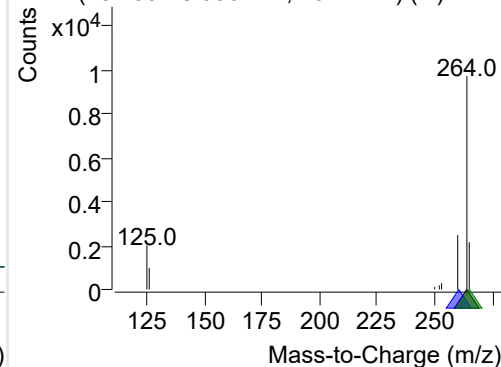
+ Selected Ion (264.0) 221107-PAHs-015.D



264.0, 260.0, 265.0

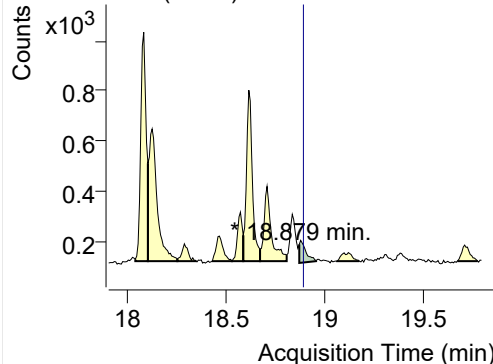


+ SIM (18.799-18.936 min, 20 scans) (**) 2211

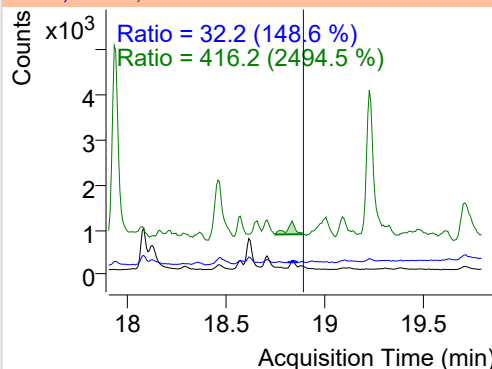


Perylene

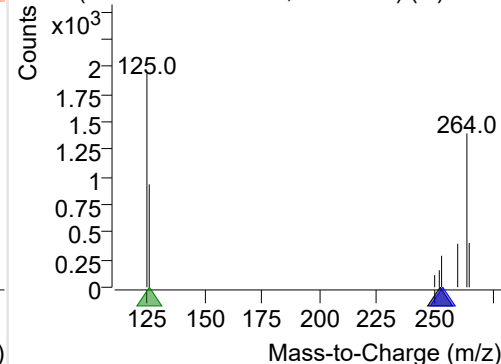
+ Selected Ion (252.0) 221107-PAHs-015.D



252.0, 253.0, 126.0

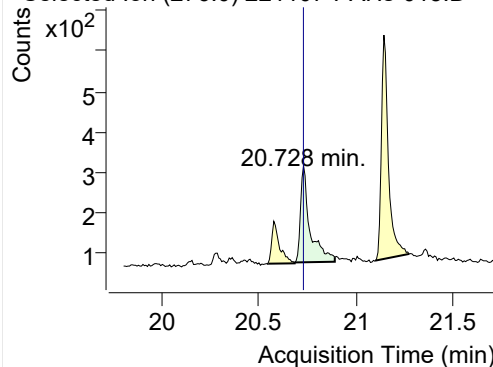


+ SIM (18.872-18.957 min, 13 scans) (**) 2211

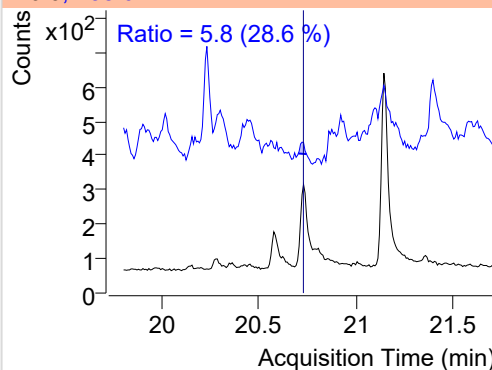


Indeno(1,2,3-c,d)pyrene

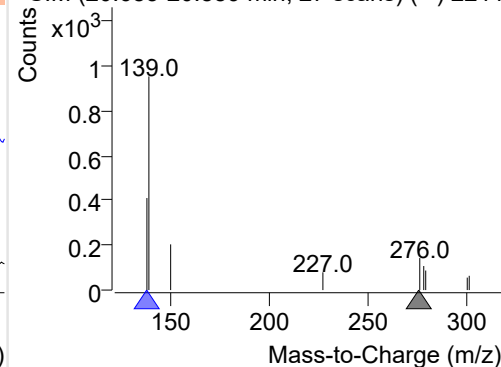
+ Selected Ion (276.0) 221107-PAHs-015.D



276.0, 138.0

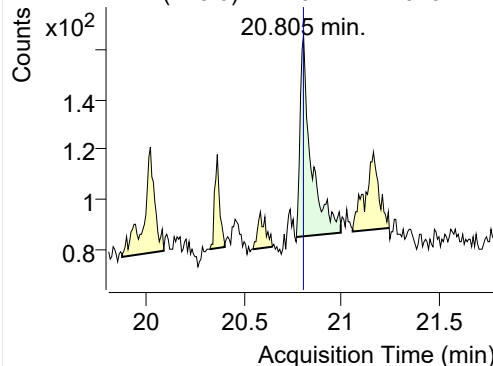


+ SIM (20.683-20.889 min, 27 scans) (**) 2211

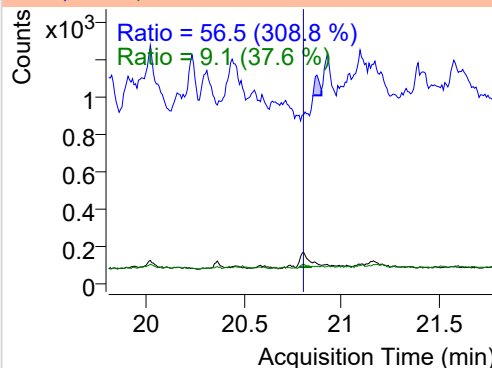


Dibenz(a,h)anthracene

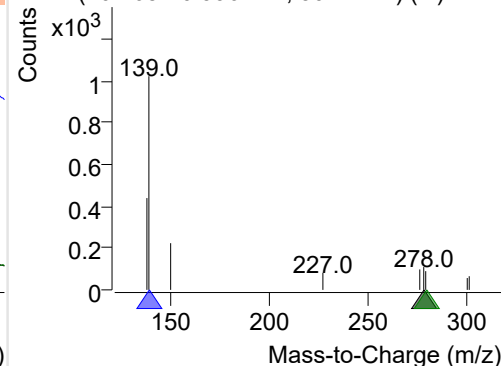
+ Selected Ion (278.0) 221107-PAHs-015.D



278.0, 139.0, 279.0

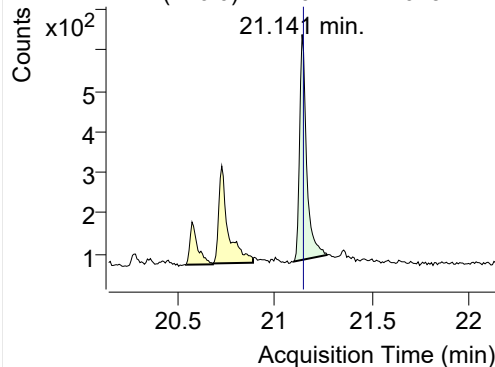


+ SIM (20.768-20.996 min, 30 scans) (**) 2211

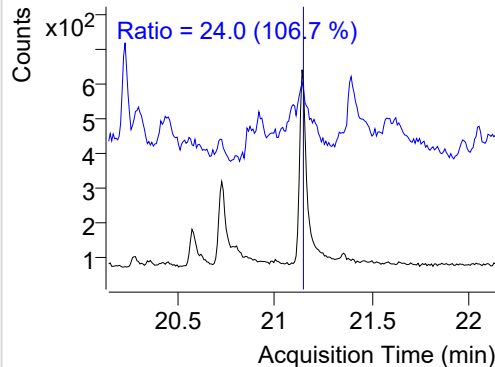


Benzo(g,h,i)perylene

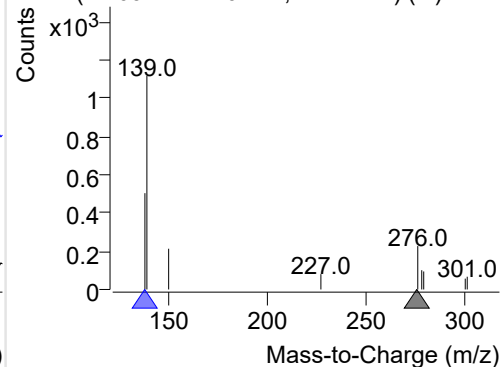
+ Selected Ion (276.0) 221107-PAHs-015.D



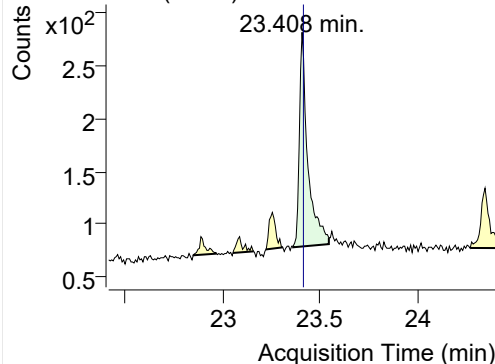
276.0, 138.0



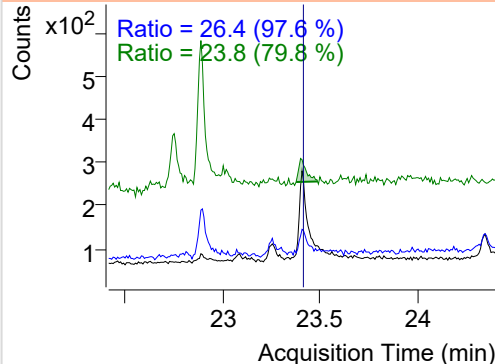
+ SIM (21.097-21.270 min, 22 scans) (**) 2211

**Coronene**

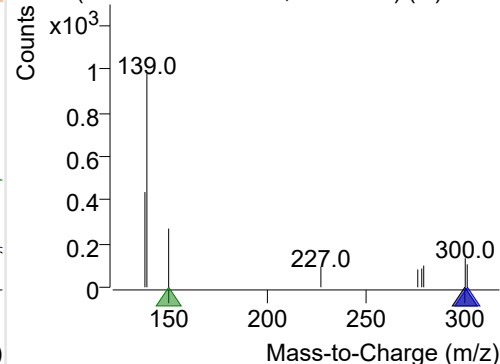
+ Selected Ion (300.0) 221107-PAHs-015.D



300.0, 301.0, 150.0



+ SIM (23.363-23.546 min, 25 scans) (**) 2211



Quantitative Analysis Sample Based Report

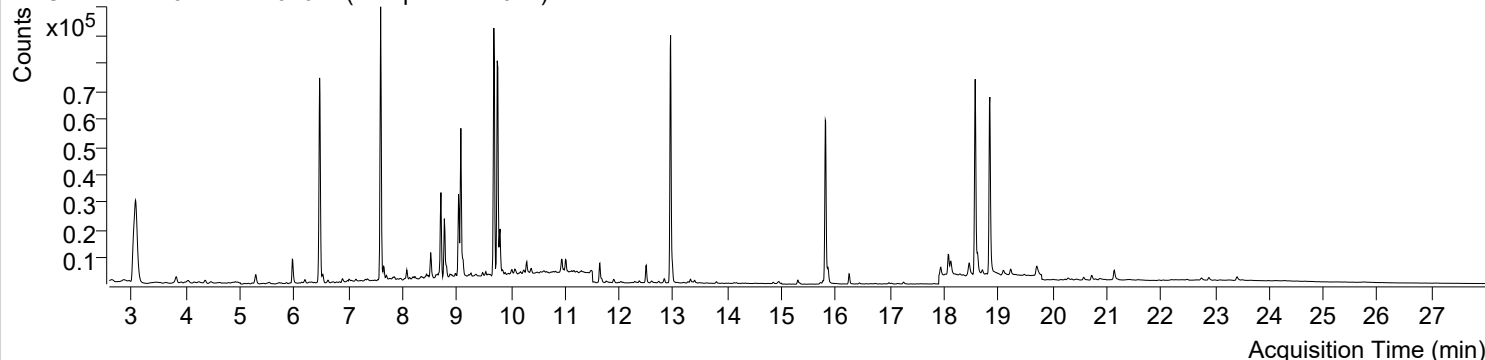


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-07 오후 11:47:51	Data File	221107-PAHs-016.D
Type	Sample	Name	Sample-PM-1014
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

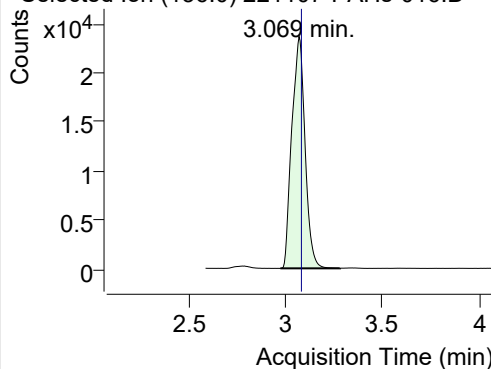
+ TIC SIM 221107-PAHs-016.D (Sample-PM-1014)



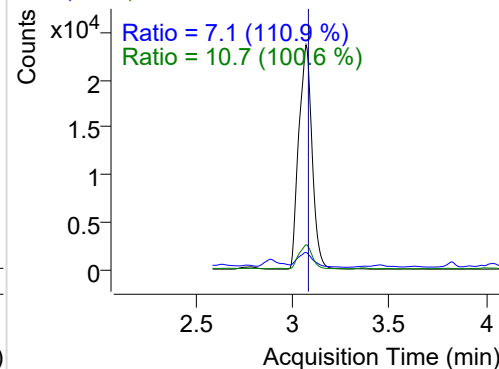
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	111492	23597.18	ND ng/ml	10.7
Naphthalene	3.096	128.0	10638	2286.06	ND ng/ml	12.8
Acenaphthylene	6.138	152.0	907	290.03	ND ng/ml	36.5
IS-D10-Acenaphthene	6.469	164.0	63543	34676.27	ND ng/ml	98.1
Acenaphthene	6.528	154.0	1414	753.74	ND ng/ml	121.9
LSS-D10-Fluorene	7.596	176.0	70776	43588.05	ND ng/ml	94.8
Fluorene	7.648	166.0	3764	1952.33	ND ng/ml	101.3
IS-D10-Phenanthrene	9.759	188.0	109270	60585.45	ND ng/ml	15.3
Phenanthrene	9.801	178.0	17564	10219.05	ND ng/ml	19.4
Anthracene	9.896	178.0	580	387.12	ND ng/ml	
Fluoranthene	12.499	202.0	7524	4686.78	ND ng/ml	18.8
LSS-D10-Pyrene	12.949	212.0	102971	65749.86	ND ng/ml	18.1
Pyrene	12.982	202.0	7813	4628.09	ND ng/ml	17.4
Benz(a)anthracene	15.762	228.0	1675	871.84	ND ng/ml	24.9
IS-D12-Chrysene	15.811	240.0	79211	44006.31	ND ng/ml	18.8
Chrysene	15.855	228.0	6644	3239.26	ND ng/ml	26.7
Benzo(b)fluoranthene	18.082	252.0	8569	4359.35	ND ng/ml	21.2
Benzo(k)fluoranthene	18.125	252.0	7230	2998.83	ND ng/ml	21.1
SS-D12-Benzo(e)pyrene	18.573	264.0	86497	47076.19	ND ng/ml	26.6
Benzo(e)pyrene	18.616	252.0	6773	3439.88	ND ng/ml	20.5
Benzo(a)pyrene	18.708	252.0	1566	693.59	ND ng/ml	18.1
IS-D12-Perylene	18.844	264.0	83591	43263.44	ND ng/ml	24.9
Perylene	18.879	252.0	420	170.22	ND ng/ml	23.0
Indeno(1,2,3-c,d)pyrene	20.728	276.0	3988	1371.62	ND ng/ml	20.3
Dibenz(a,h)anthracene	20.797	278.0	467	163.36	ND ng/ml	24.2
Benzo(g,h,i)perylene	21.141	276.0	6762	2712.11	ND ng/ml	22.4
Coronene	23.409	300.0	2601	835.13	ND ng/ml	27.3

IS-D8-Naphthalene

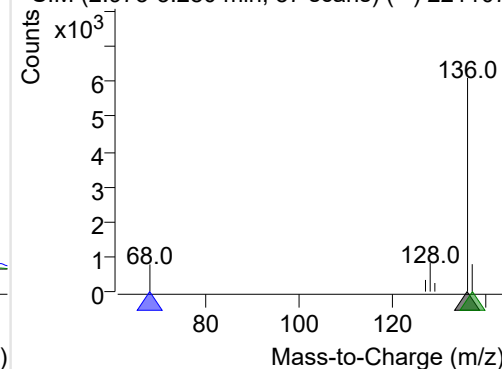
+ Selected Ion (136.0) 221107-PAHs-016.D



136.0, 68.0, 137.0

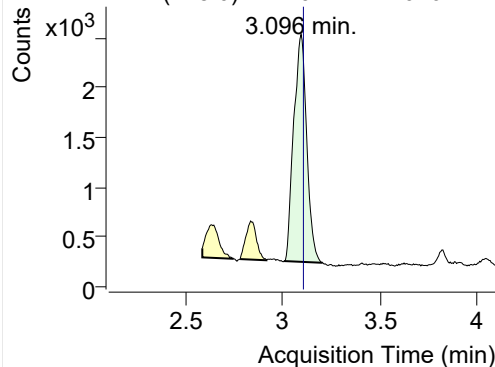


+ SIM (2.973-3.280 min, 57 scans) (**) 221107

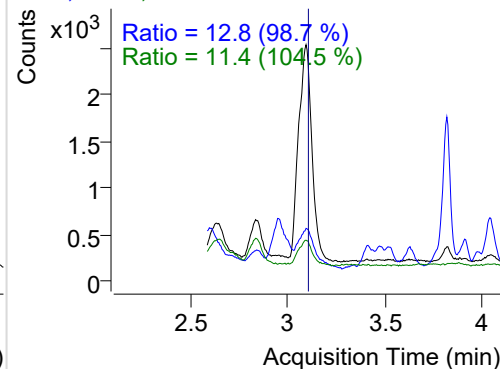


Naphthalene

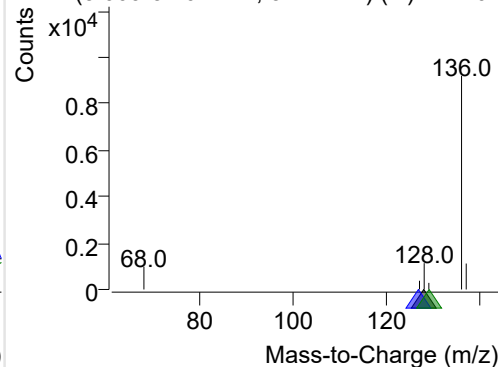
+ Selected Ion (128.0) 221107-PAHs-016.D



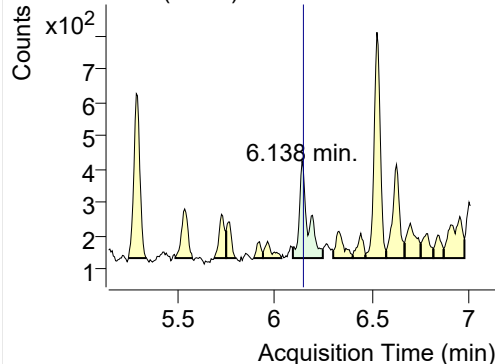
128.0, 127.0, 129.0



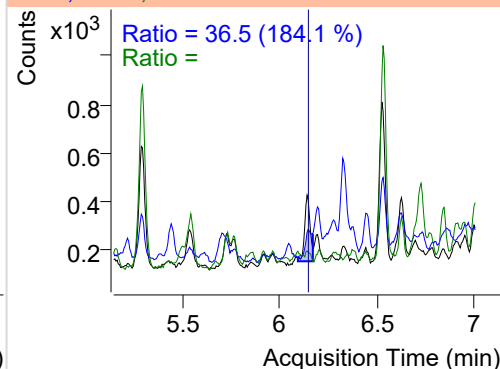
+ SIM (3.009-3.207 min, 37 scans) (**) 221107

**Acenaphthylene**

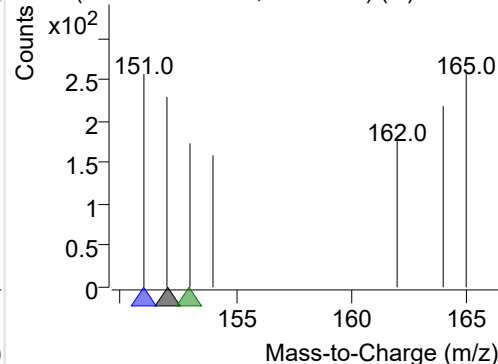
+ Selected Ion (152.0) 221107-PAHs-016.D



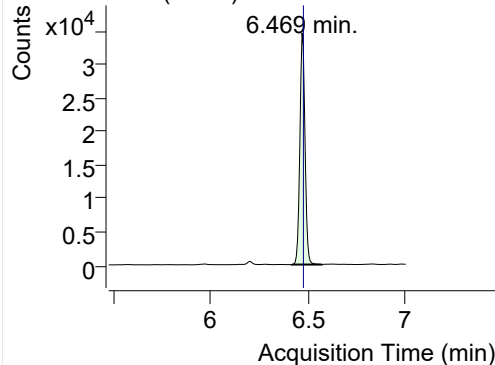
152.0, 151.0, 153.0



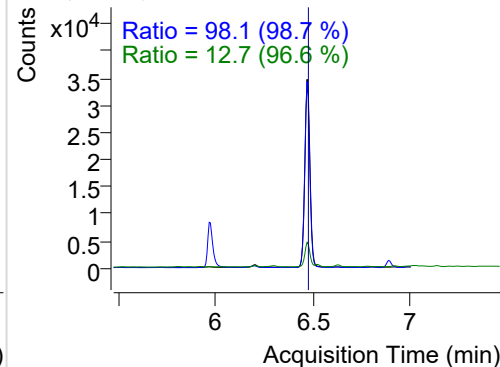
+ SIM (6.090-6.244 min, 27 scans) (**) 221107

**IS-D10-Acenaphthene**

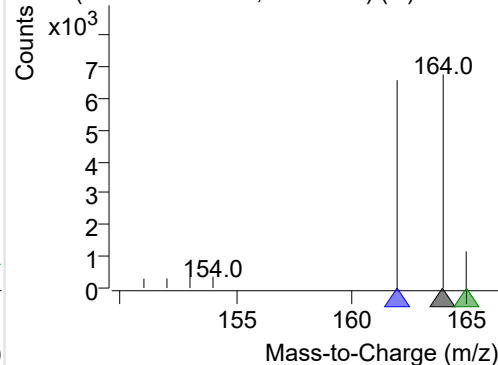
+ Selected Ion (164.0) 221107-PAHs-016.D



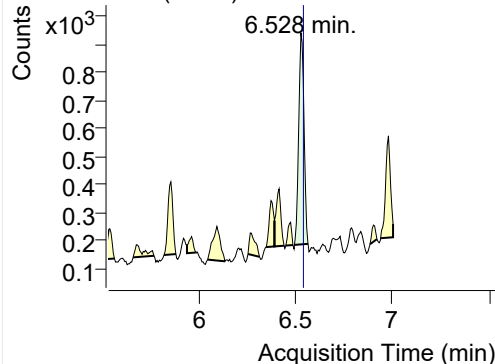
164.0, 162.0, 165.0



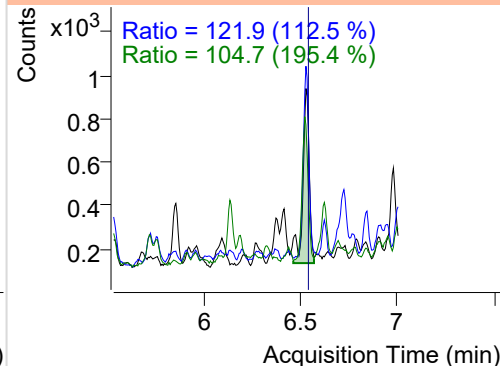
+ SIM (6.416-6.570 min, 27 scans) (**) 221107

**Acenaphthene**

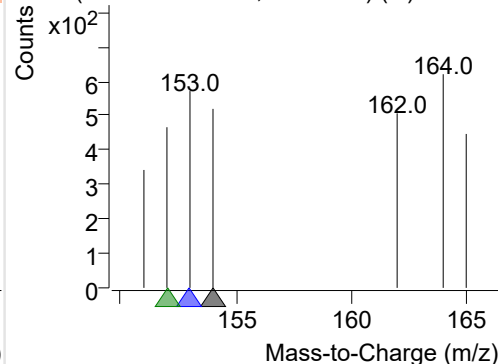
+ Selected Ion (154.0) 221107-PAHs-016.D



154.0, 153.0, 152.0

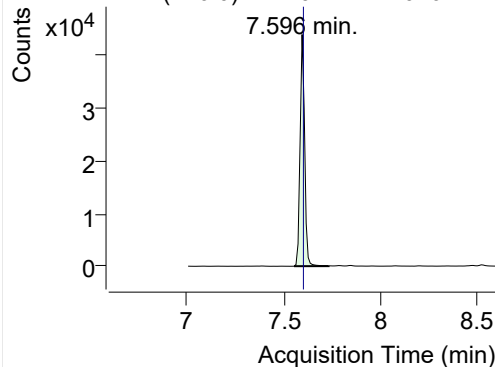


+ SIM (6.495-6.565 min, 12 scans) (**) 221107

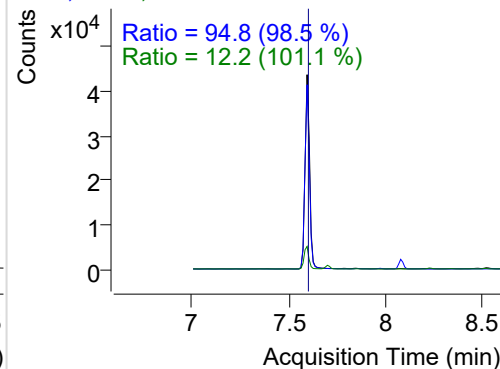


LSS-D10-Fluorene

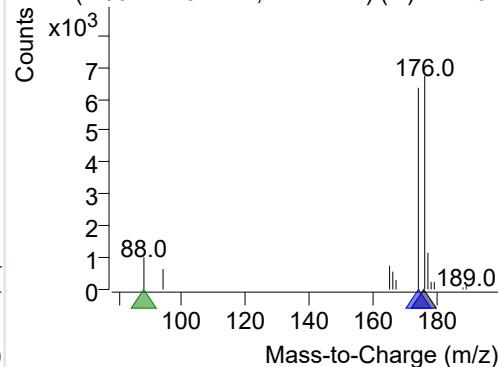
+ Selected Ion (176.0) 221107-PAHs-016.D



176.0, 174.0, 88.0

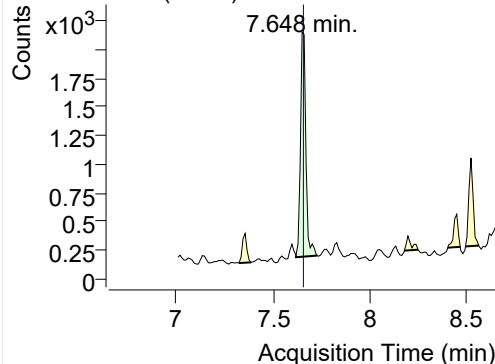


+ SIM (7.554-7.732 min, 17 scans) (**) 221107

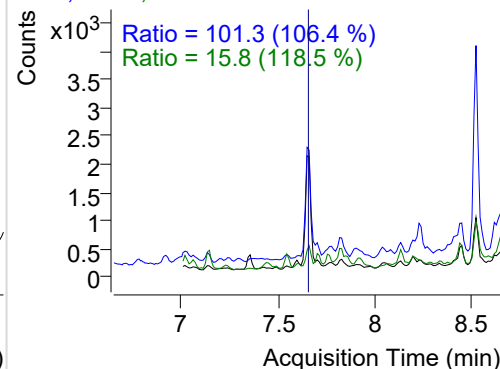


Fluorene

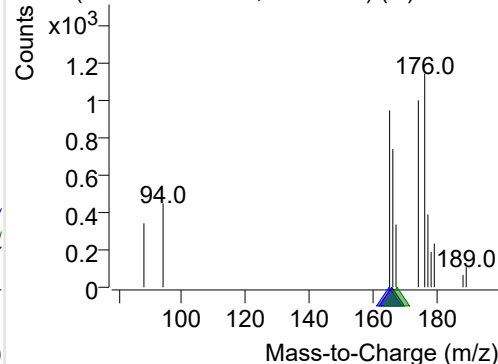
+ Selected Ion (166.0) 221107-PAHs-016.D



166.0, 165.0, 167.0

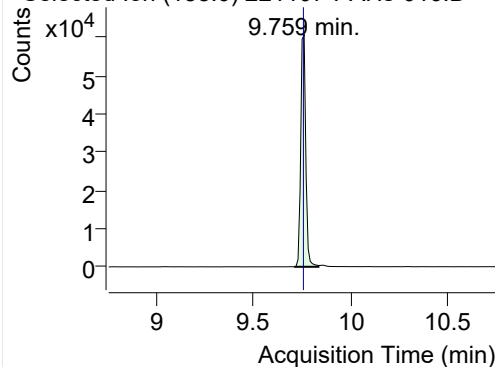


+ SIM (7.617-7.727 min, 11 scans) (**) 221107

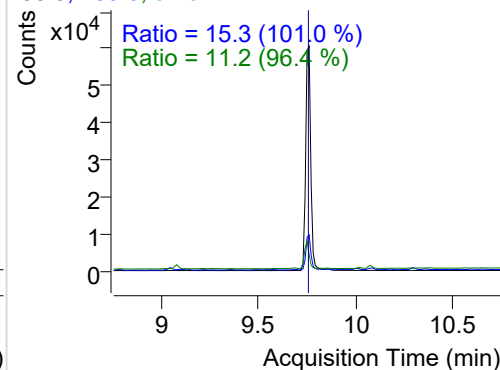


IS-D10-Phenanthrene

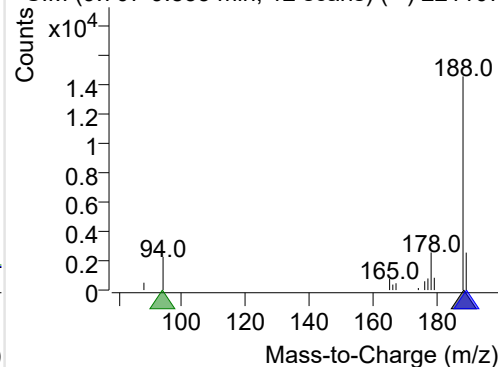
+ Selected Ion (188.0) 221107-PAHs-016.D



188.0, 189.0, 94.0

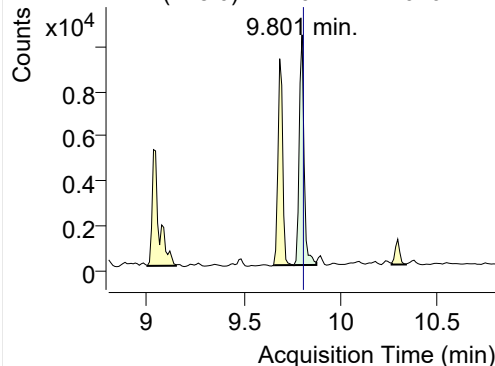


+ SIM (9.707-9.833 min, 12 scans) (**) 221107

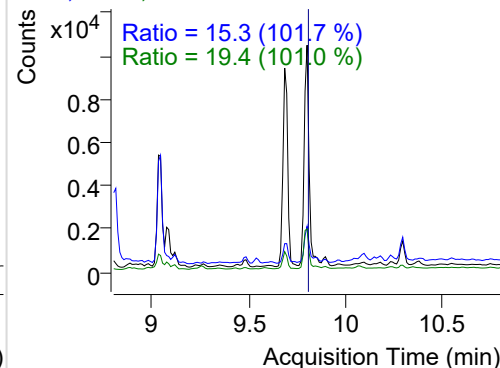


Phenanthrene

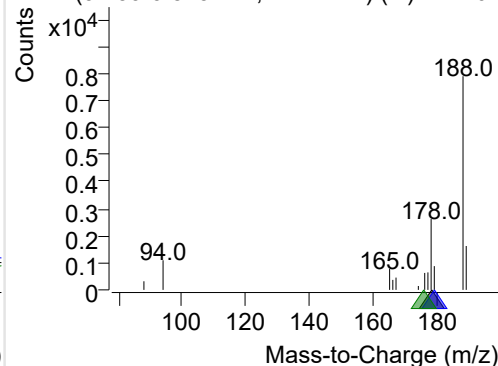
+ Selected Ion (178.0) 221107-PAHs-016.D



178.0, 179.0, 176.0

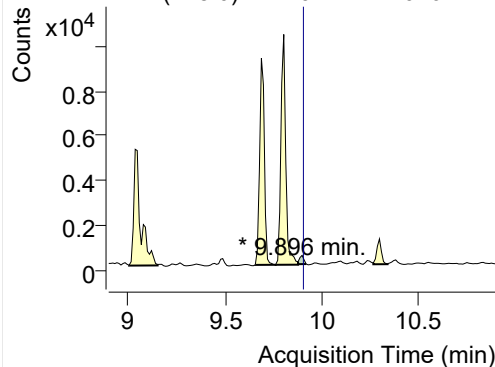


+ SIM (9.759-9.875 min, 12 scans) (**) 221107

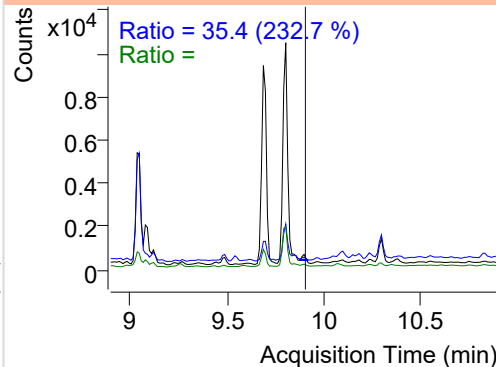


Anthracene

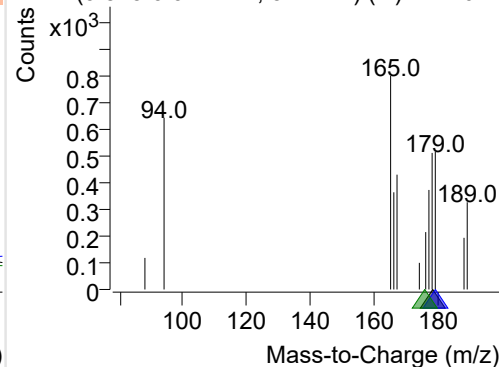
+ Selected Ion (178.0) 221107-PAHs-016.D



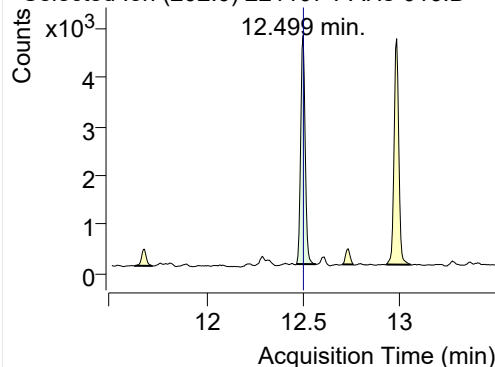
178.0, 179.0, 176.0



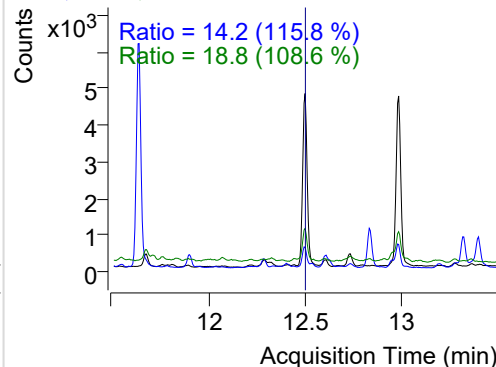
+ SIM (9.875-9.917 min, 5 scans) (**) 221107-I

**Fluoranthene**

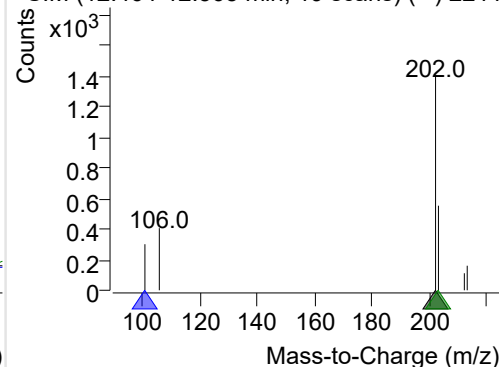
+ Selected Ion (202.0) 221107-PAHs-016.D



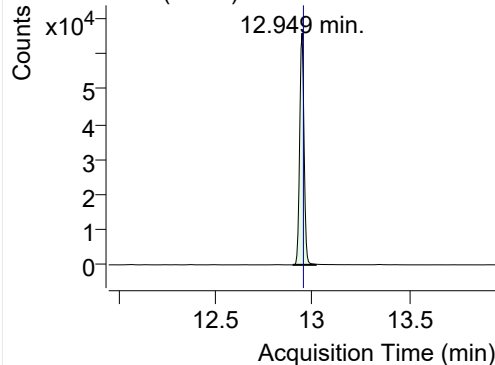
202.0, 101.0, 203.0



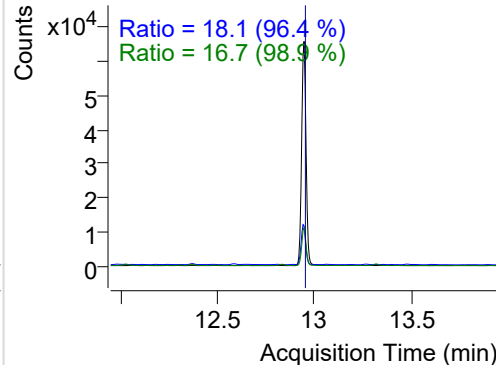
+ SIM (12.464-12.565 min, 19 scans) (**) 2211

**LSS-D10-Pyrene**

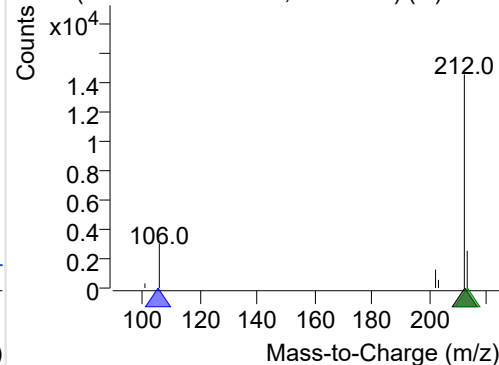
+ Selected Ion (212.0) 221107-PAHs-016.D



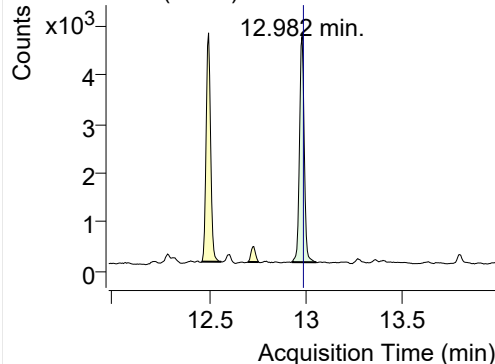
212.0, 106.0, 213.0



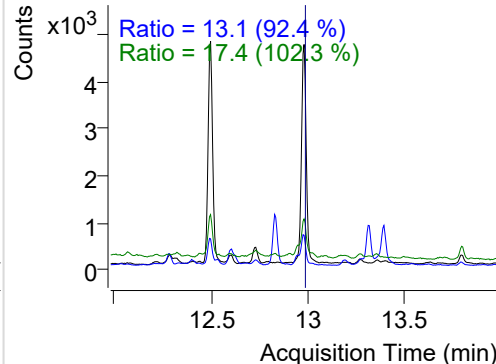
+ SIM (12.901-13.020 min, 22 scans) (**) 2211

**Pyrene**

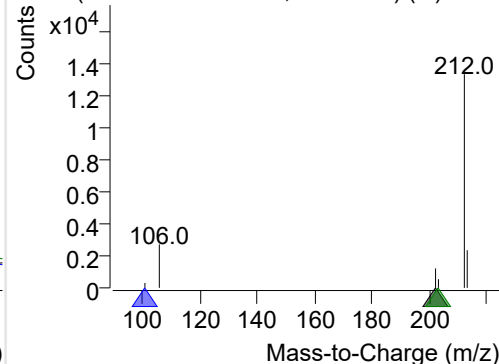
+ Selected Ion (202.0) 221107-PAHs-016.D



202.0, 101.0, 203.0

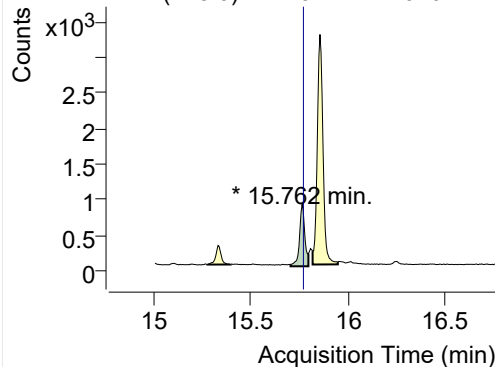


+ SIM (12.933-13.055 min, 23 scans) (**) 2211

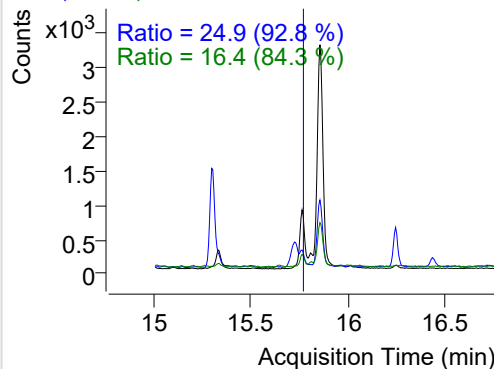


Benz(a)anthracene

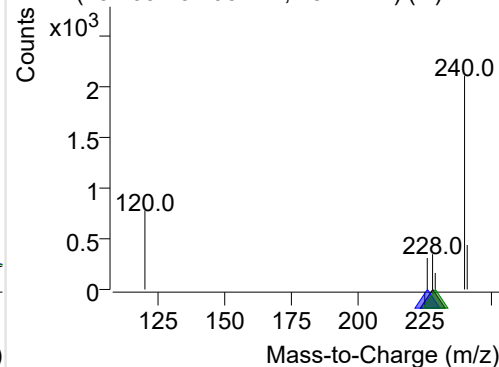
+ Selected Ion (228.0) 221107-PAHs-016.D



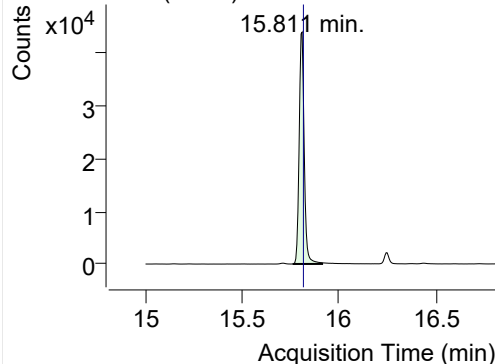
228.0, 226.0, 229.0



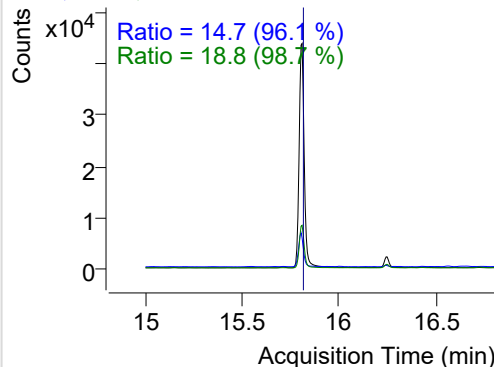
+ SIM (15.703-15.795 min, 18 scans) (**) 2211

**IS-D12-Chrysene**

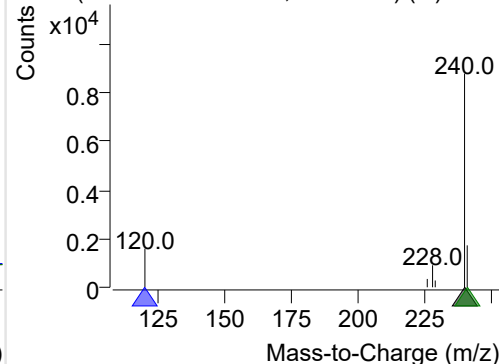
+ Selected Ion (240.0) 221107-PAHs-016.D



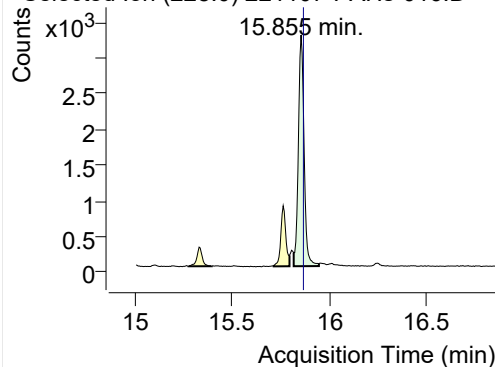
240.0, 120.0, 241.0



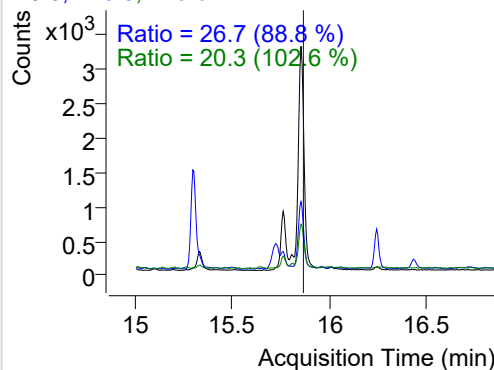
+ SIM (15.762-15.914 min, 28 scans) (**) 2211

**Chrysene**

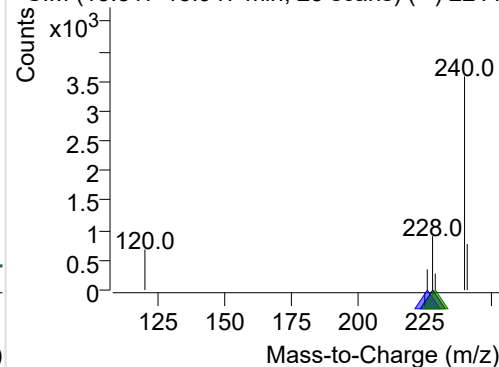
+ Selected Ion (228.0) 221107-PAHs-016.D



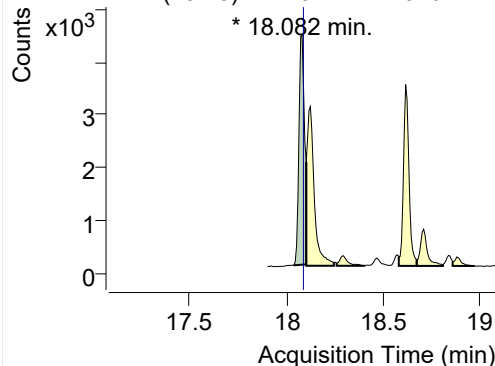
228.0, 226.0, 229.0



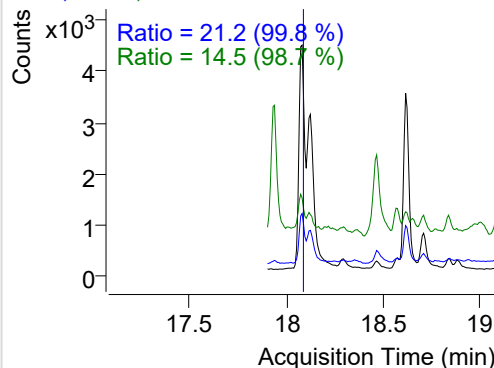
+ SIM (15.817-15.947 min, 25 scans) (**) 2211

**Benzo(b)fluoranthene**

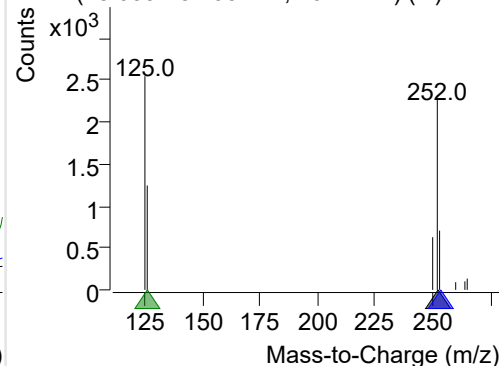
+ Selected Ion (252.0) 221107-PAHs-016.D



252.0, 253.0, 126.0

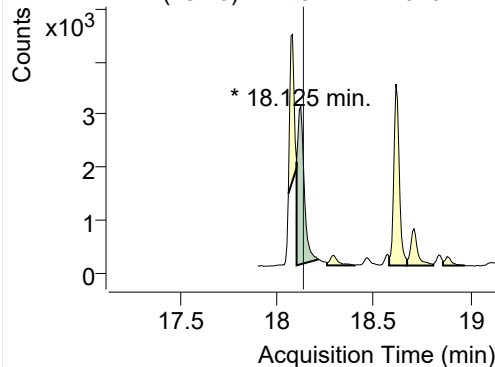


+ SIM (18.039-18.103 min, 10 scans) (**) 2211

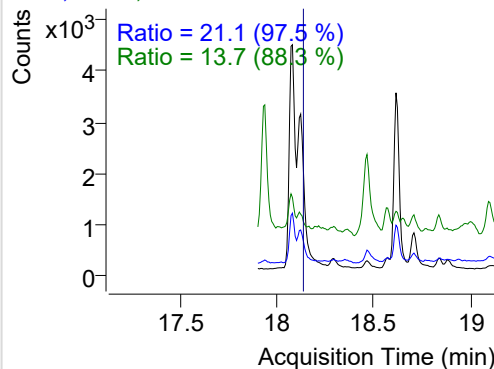


Benzo(k)fluoranthene

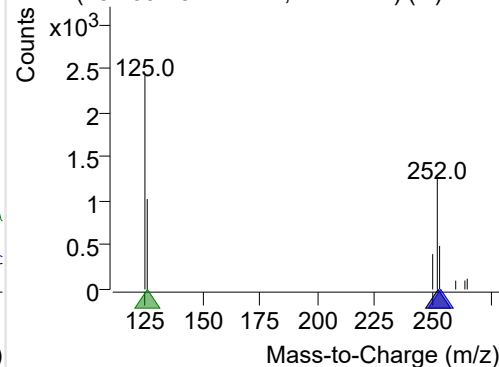
+ Selected Ion (252.0) 221107-PAHs-016.D



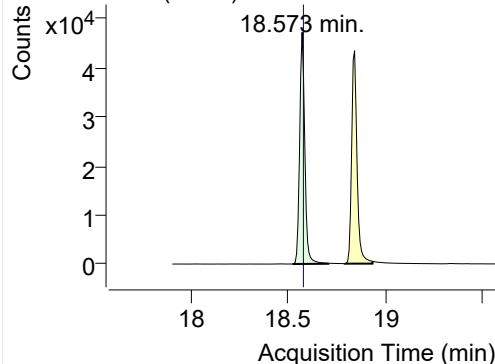
252.0, 253.0, 126.0



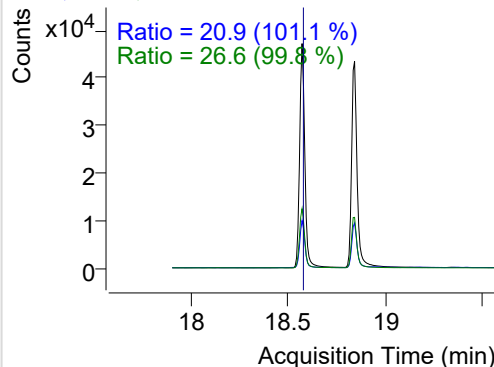
+ SIM (18.103-18.217 min, 17 scans) (**) 2211

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

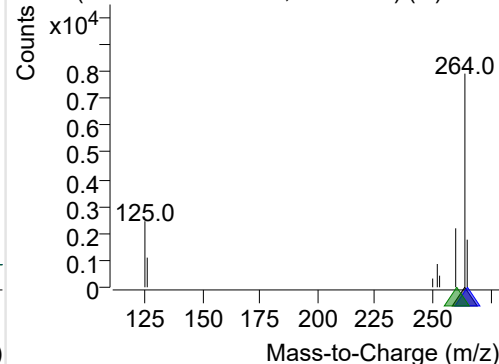
+ Selected Ion (264.0) 221107-PAHs-016.D



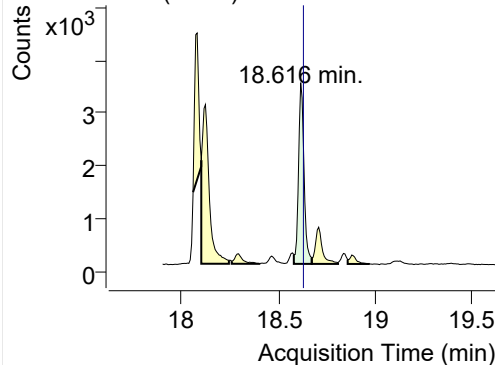
264.0, 265.0, 260.0



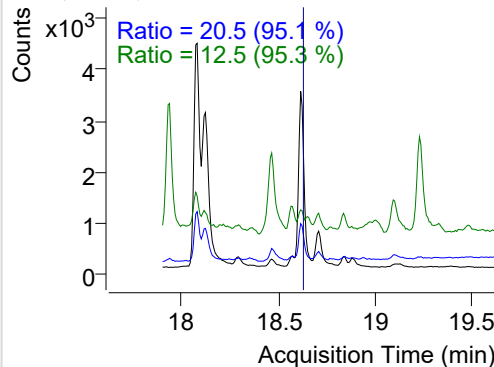
+ SIM (18.523-18.708 min, 26 scans) (**) 2211

**Benzo(e)pyrene**

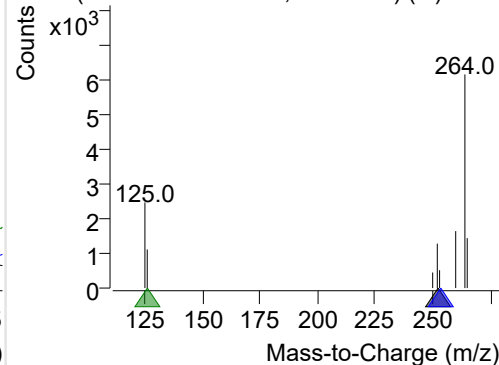
+ Selected Ion (252.0) 221107-PAHs-016.D



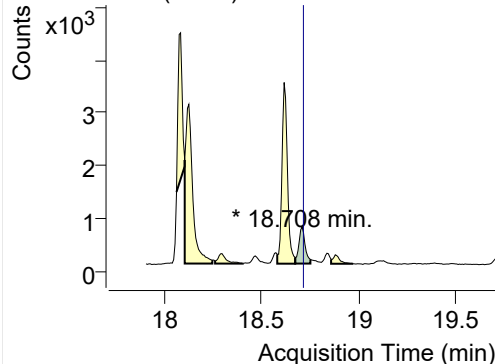
252.0, 253.0, 126.0



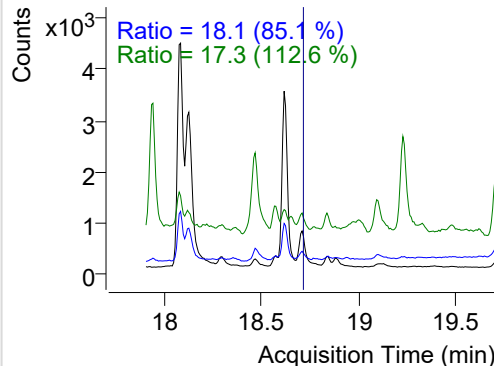
+ SIM (18.580-18.673 min, 14 scans) (**) 2211

**Benzo(a)pyrene**

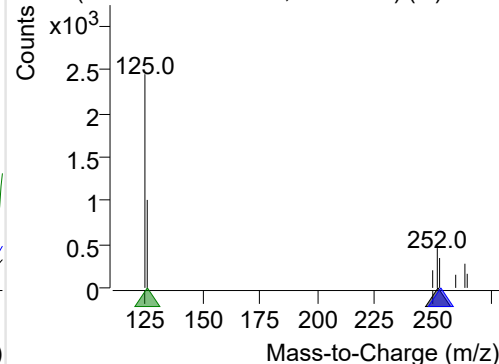
+ Selected Ion (252.0) 221107-PAHs-016.D



252.0, 253.0, 126.0

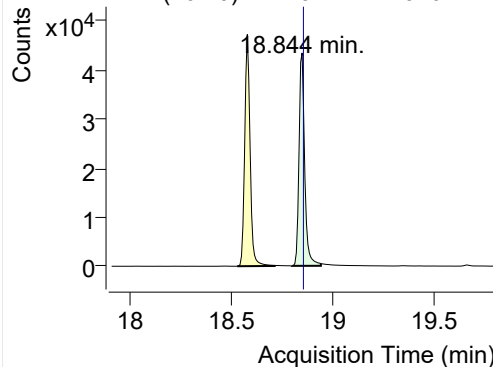


+ SIM (18.673-18.751 min, 12 scans) (**) 2211

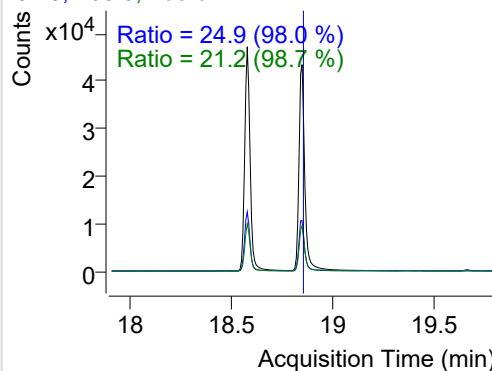


IS-D12-Perylene

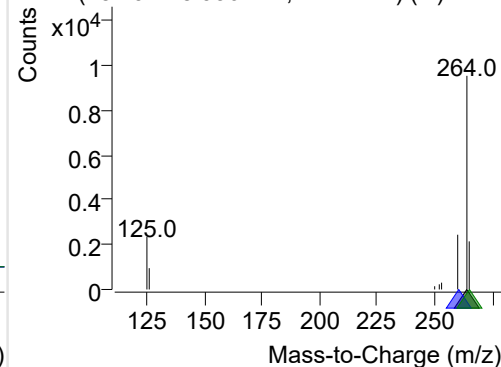
+ Selected Ion (264.0) 221107-PAHs-016.D



264.0, 260.0, 265.0

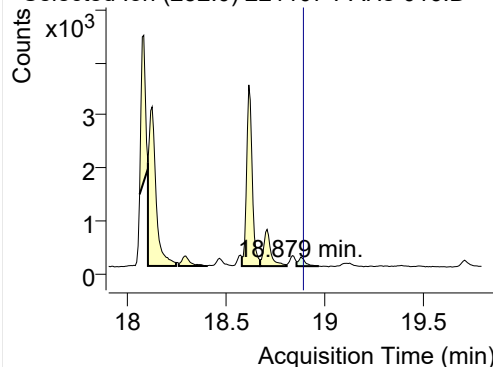


+ SIM (18.794-18.936 min, 21 scans) (**) 2211

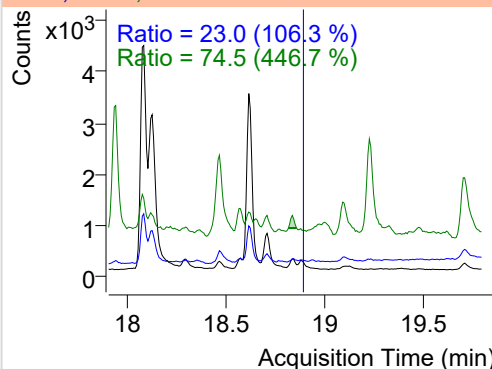


Perylene

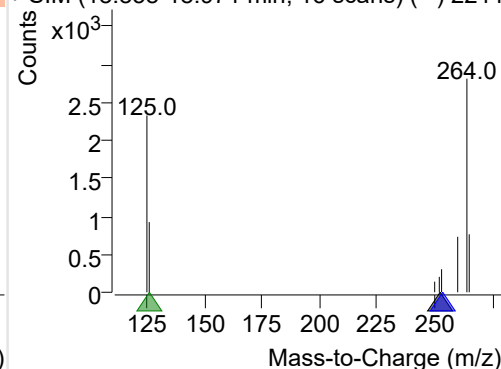
+ Selected Ion (252.0) 221107-PAHs-016.D



252.0, 253.0, 126.0

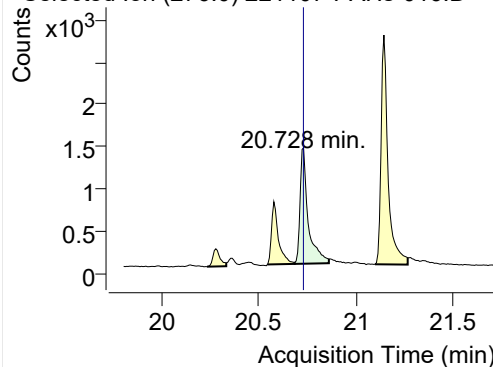


+ SIM (18.858-18.971 min, 16 scans) (**) 2211

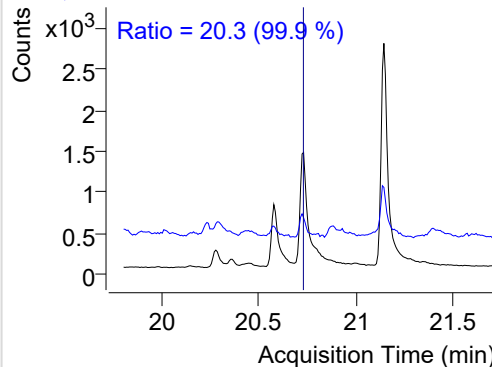


Indeno(1,2,3-c,d)pyrene

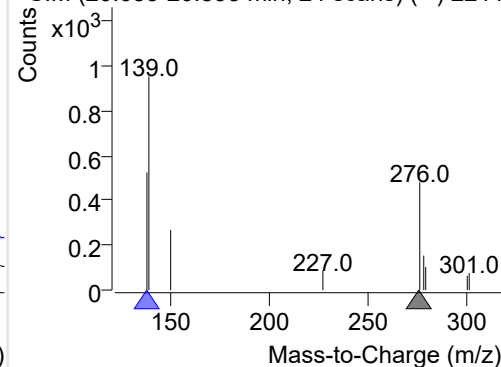
+ Selected Ion (276.0) 221107-PAHs-016.D



276.0, 138.0

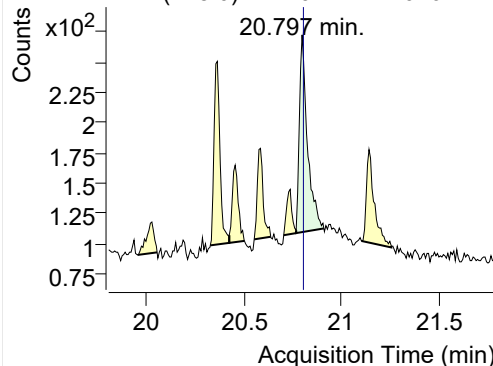


+ SIM (20.683-20.858 min, 24 scans) (**) 2211

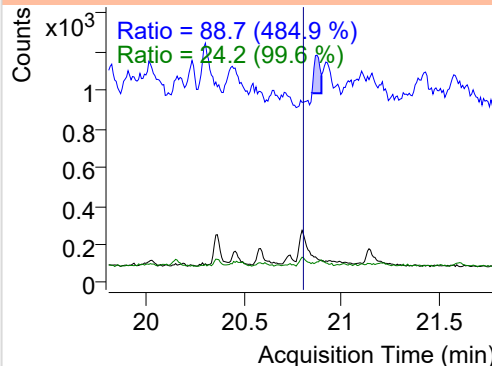


Dibenz(a,h)anthracene

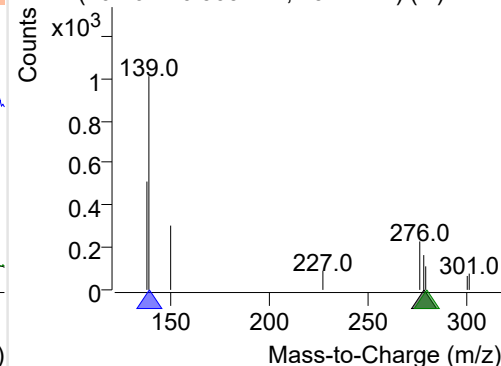
+ Selected Ion (278.0) 221107-PAHs-016.D



278.0, 139.0, 279.0

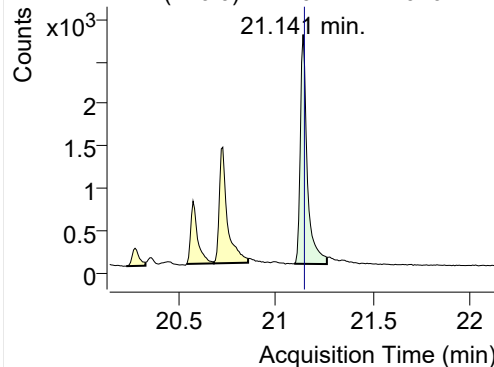


+ SIM (20.767-20.909 min, 19 scans) (**) 2211

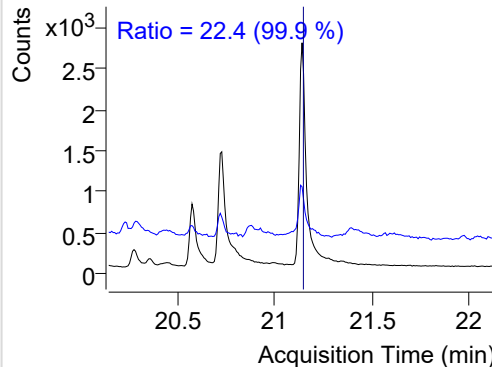


Benzo(g,h,i)perylene

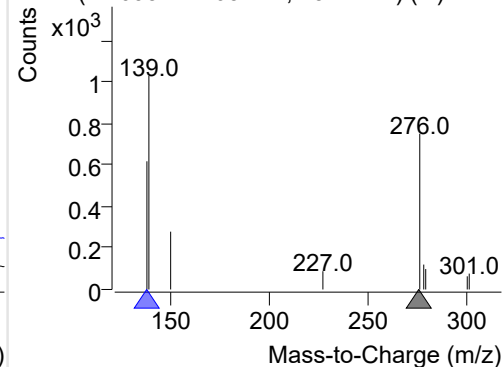
+ Selected Ion (276.0) 221107-PAHs-016.D



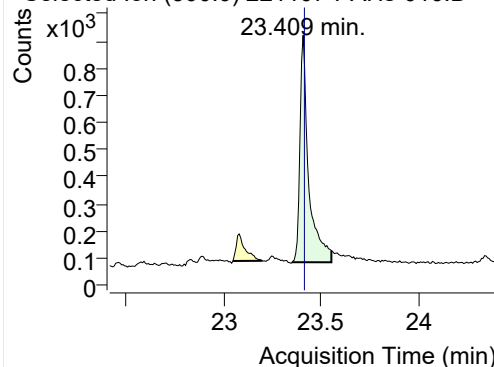
276.0, 138.0



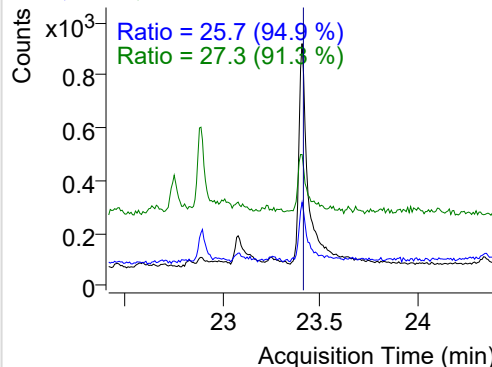
+ SIM (21.095-21.263 min, 23 scans) (**) 2211

**Coronene**

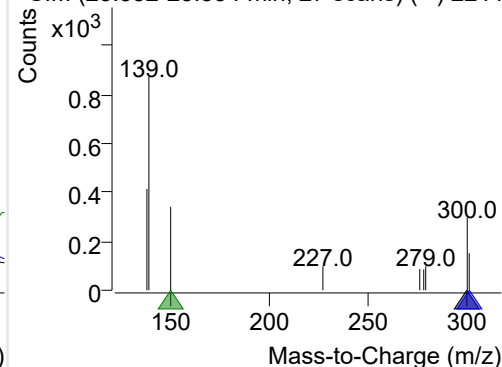
+ Selected Ion (300.0) 221107-PAHs-016.D



300.0, 301.0, 150.0



+ SIM (23.352-23.554 min, 27 scans) (**) 2211



Quantitative Analysis Sample Based Report

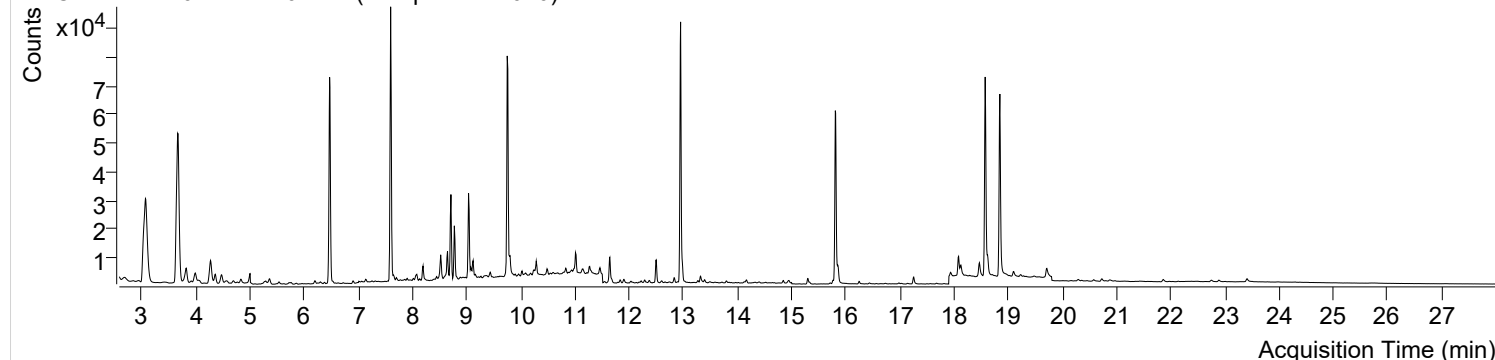


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 12:18:56	Data File	221107-PAHs-017.D
Type	Sample	Name	Sample-PM-1020
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

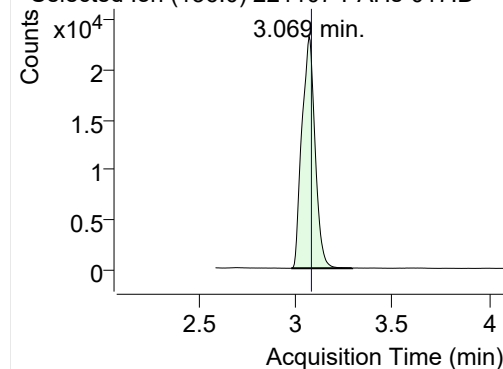
+ TIC SIM 221107-PAHs-017.D (Sample-PM-1020)



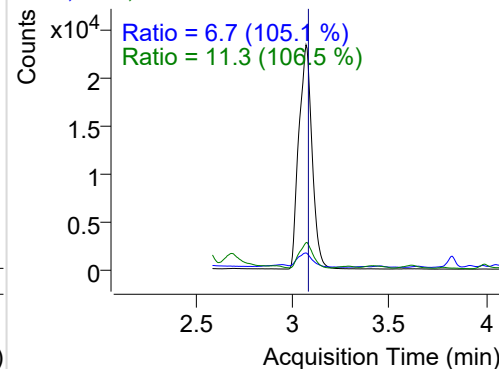
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	109699	23308.50	ND ng/ml	11.3
Naphthalene	3.096	128.0	10653	2155.55	ND ng/ml	13.3
Acenaphthylene	6.191	152.0	423	138.75	ND ng/ml	120.3
IS-D10-Acenaphthene	6.469	164.0	61791	33950.02	ND ng/ml	98.6
Acenaphthene	6.528	154.0	362	182.94	ND ng/ml	121.5
LSS-D10-Fluorene	7.596	176.0	70533	42694.01	ND ng/ml	94.7
Fluorene	7.648	166.0	773	418.56	ND ng/ml	118.1
IS-D10-Phenanthrene	9.748	188.0	107455	59192.90	ND ng/ml	15.1
Phenanthrene	9.801	178.0	7086	3986.35	ND ng/ml	18.3
Anthracene	9.896	178.0	508	329.28	ND ng/ml	22.3
Fluoranthene	12.499	202.0	10097	6028.15	ND ng/ml	19.5
LSS-D10-Pyrene	12.949	212.0	102363	67560.36	ND ng/ml	18.0
Pyrene	12.982	202.0	7476	4439.11	ND ng/ml	18.2
Benz(a)anthracene	15.762	228.0	1606	878.82	ND ng/ml	27.8
IS-D12-Chrysene	15.806	240.0	81843	45103.26	ND ng/ml	18.4
Chrysene	15.854	228.0	7601	3452.40	ND ng/ml	28.8
Benzo(b)fluoranthene	18.082	252.0	7495	4026.56	ND ng/ml	20.6
Benzo(k)fluoranthene	18.124	252.0	5747	2313.02	ND ng/ml	19.9
SS-D12-Benzo(e)pyrene	18.573	264.0	82883	45876.14	ND ng/ml	30.0
Benzo(e)pyrene	18.616	252.0	6412	3090.73	ND ng/ml	23.6
Benzo(a)pyrene	18.708	252.0	149	64.51	ND ng/ml	
IS-D12-Perylene	18.843	264.0	80820	43135.74	ND ng/ml	24.7
Perylene	18.836	252.0	461	187.73	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.728	276.0	2181	694.32	ND ng/ml	19.7
Dibenz(a,h)anthracene	20.797	278.0	352	90.30	ND ng/ml	27.4
Benzo(g,h,i)perylene	21.141	276.0	110	48.91	ND ng/ml	
Coronene	23.408	300.0	2166	682.24	ND ng/ml	26.4

IS-D8-Naphthalene

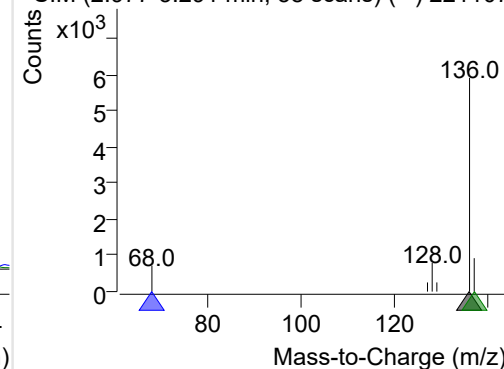
+ Selected Ion (136.0) 221107-PAHs-017.D



136.0, 68.0, 137.0

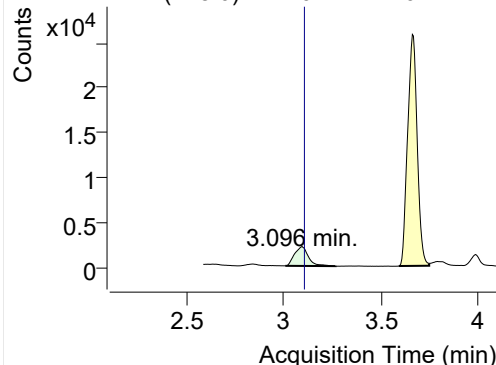


+ SIM (2.977-3.291 min, 58 scans) (**) 221107

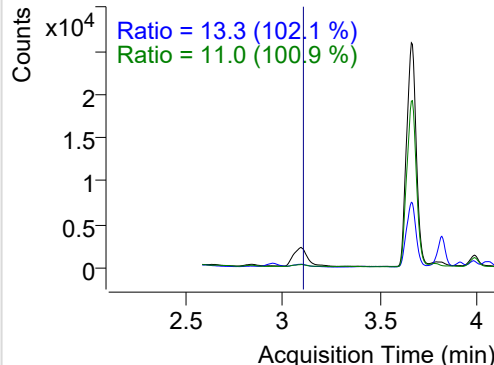


Naphthalene

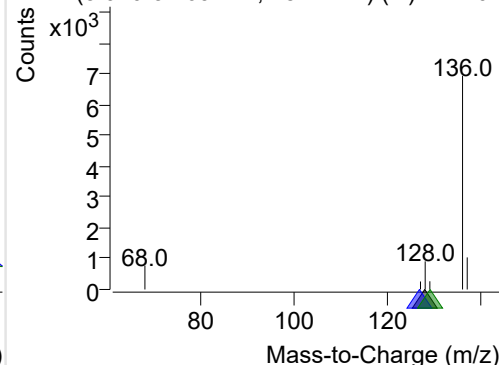
+ Selected Ion (128.0) 221107-PAHs-017.D



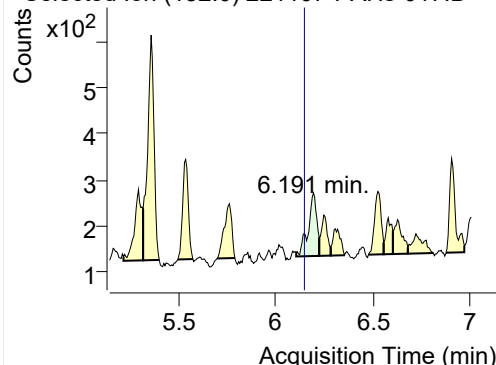
128.0, 127.0, 129.0



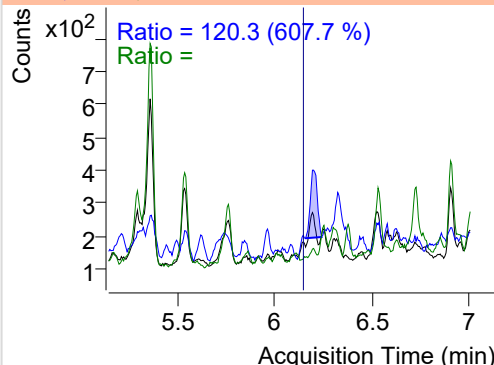
+ SIM (3.010-3.269 min, 48 scans) (**) 221107

**Acenaphthylene**

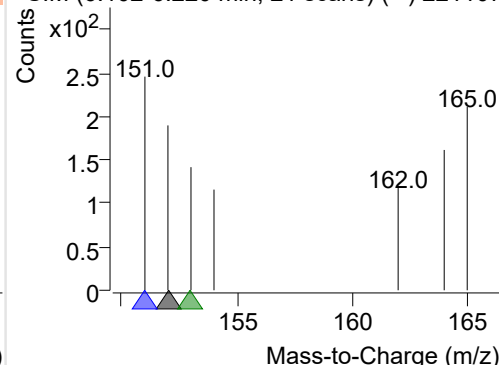
+ Selected Ion (152.0) 221107-PAHs-017.D



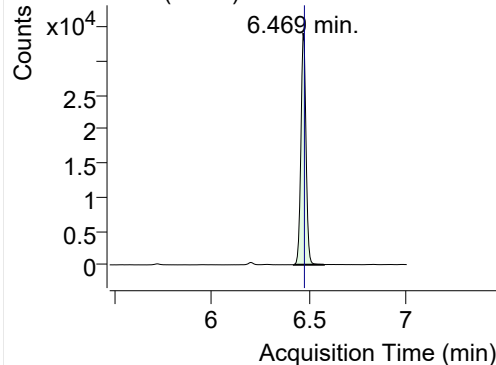
152.0, 151.0, 153.0



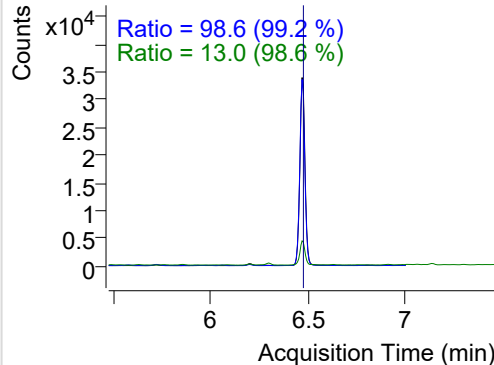
+ SIM (6.102-6.220 min, 21 scans) (**) 221107

**IS-D10-Acenaphthene**

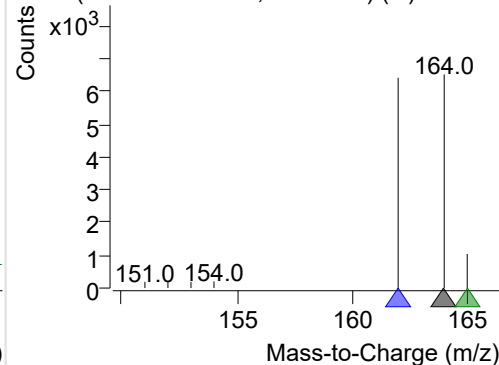
+ Selected Ion (164.0) 221107-PAHs-017.D



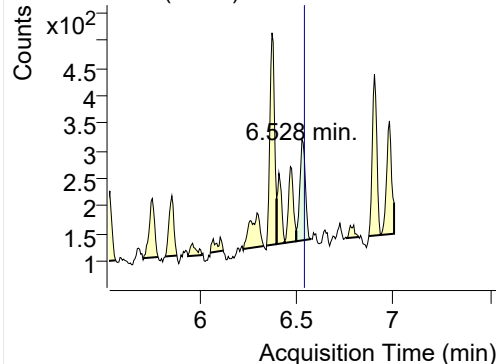
164.0, 162.0, 165.0



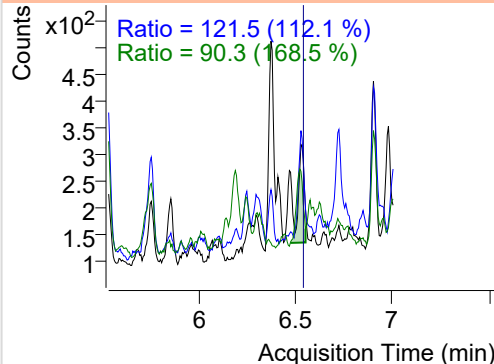
+ SIM (6.422-6.576 min, 27 scans) (**) 221107

**Acenaphthene**

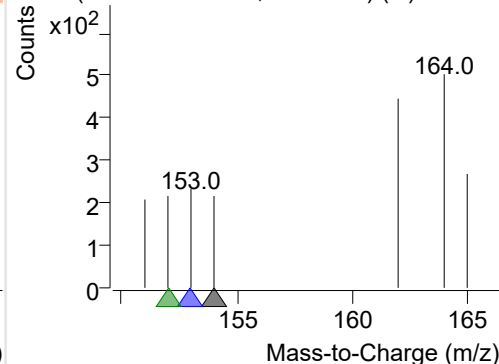
+ Selected Ion (154.0) 221107-PAHs-017.D



154.0, 153.0, 152.0

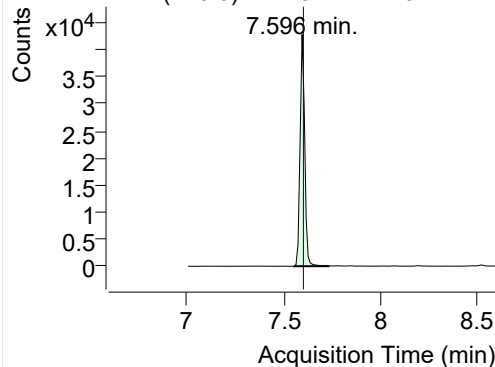


+ SIM (6.499-6.570 min, 13 scans) (**) 221107

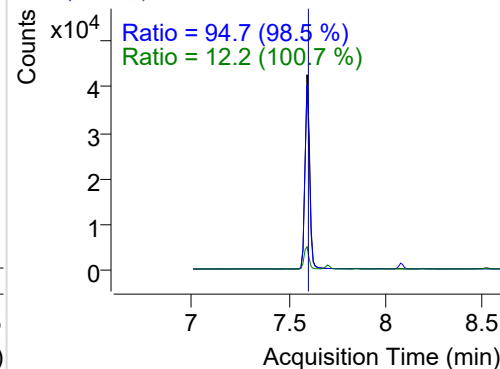


LSS-D10-Fluorene

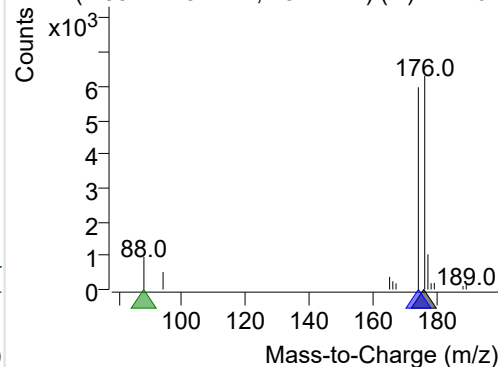
+ Selected Ion (176.0) 221107-PAHs-017.D



176.0, 174.0, 88.0

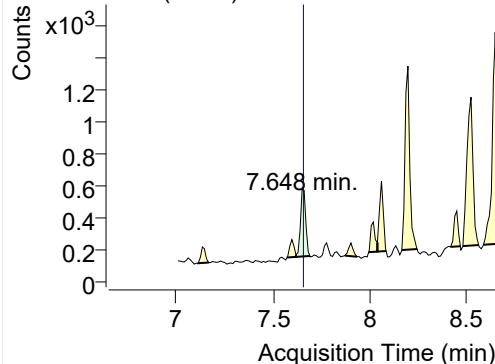


+ SIM (7.554-7.732 min, 18 scans) (**) 221107

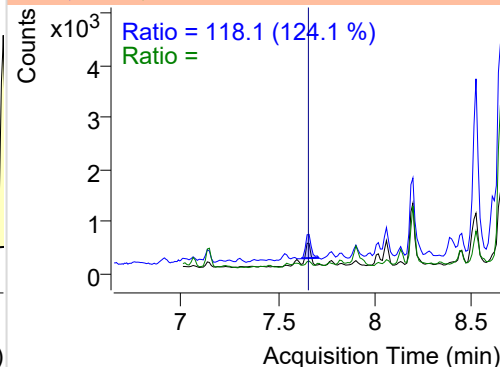


Fluorene

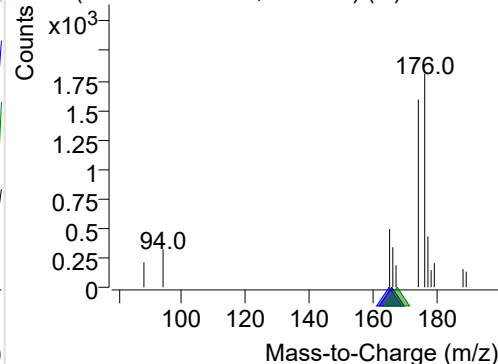
+ Selected Ion (166.0) 221107-PAHs-017.D



166.0, 165.0, 167.0

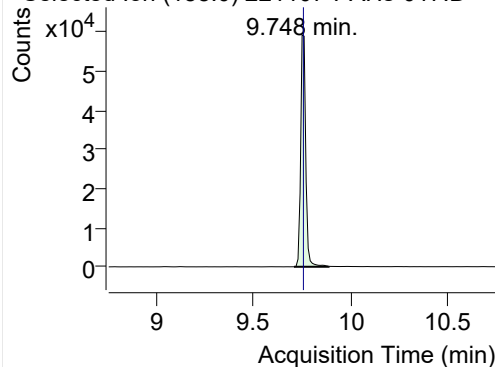


+ SIM (7.617-7.688 min, 7 scans) (**) 221107-I

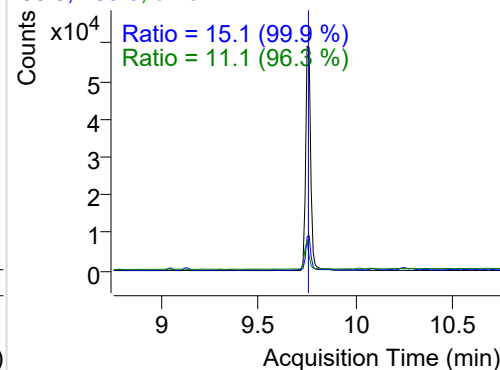


IS-D10-Phenanthrene

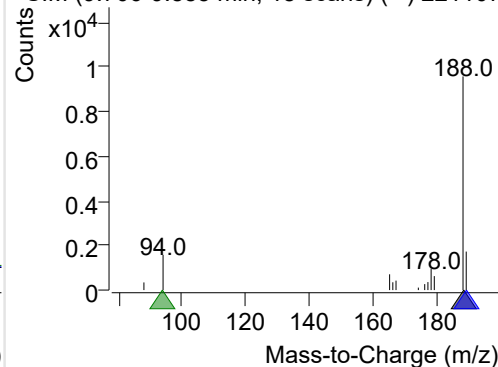
+ Selected Ion (188.0) 221107-PAHs-017.D



188.0, 189.0, 94.0

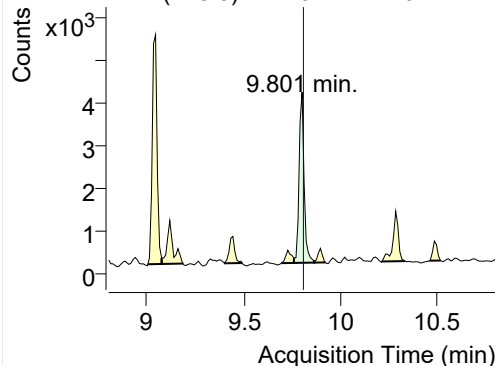


+ SIM (9.706-9.885 min, 18 scans) (**) 221107

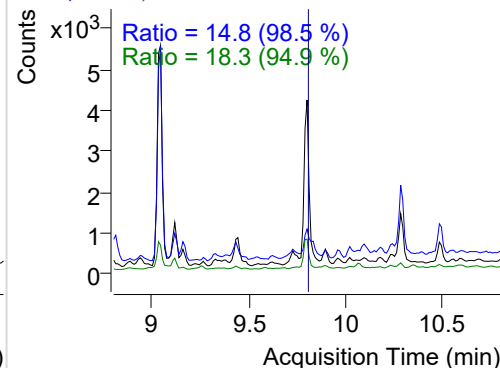


Phenanthrene

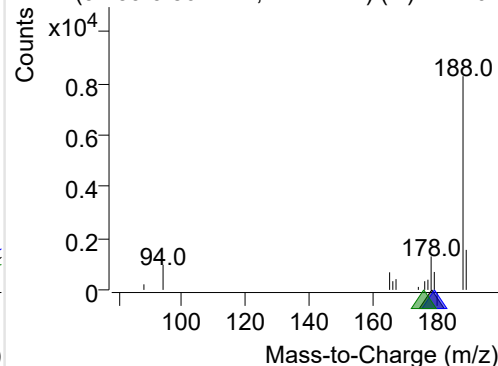
+ Selected Ion (178.0) 221107-PAHs-017.D



178.0, 179.0, 176.0

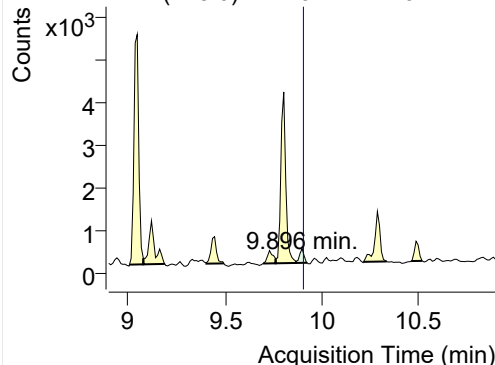


+ SIM (9.759-9.864 min, 11 scans) (**) 221107

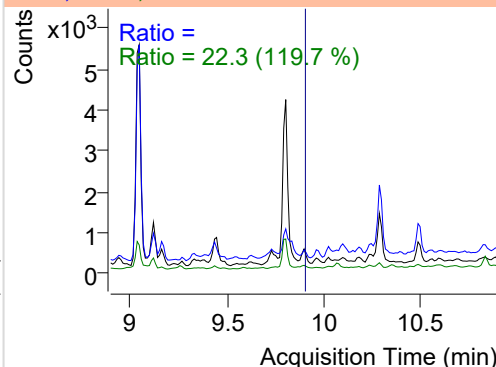


Anthracene

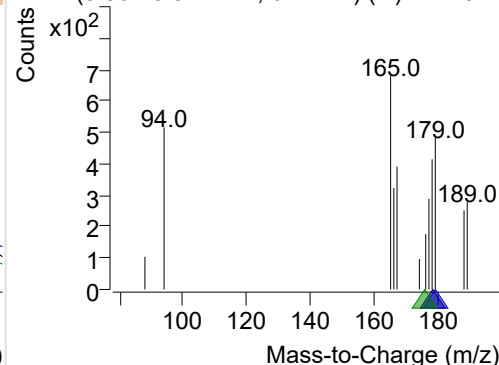
+ Selected Ion (178.0) 221107-PAHs-017.D



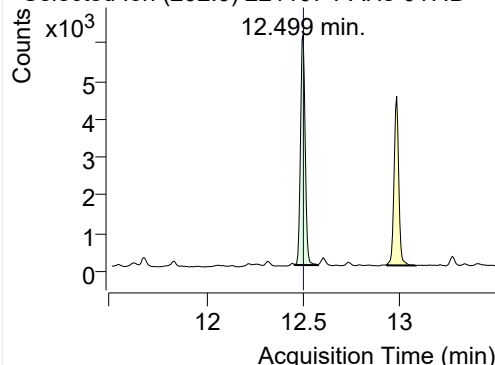
178.0, 179.0, 176.0



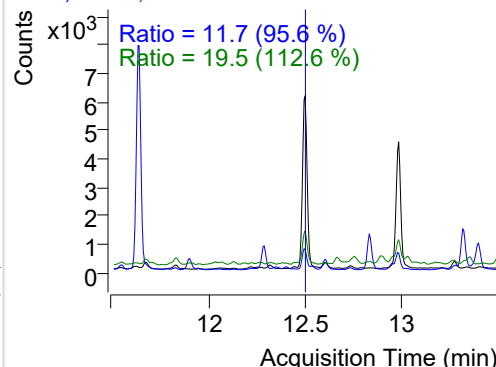
+ SIM (9.864-9.922 min, 6 scans) (**) 221107-I

**Fluoranthene**

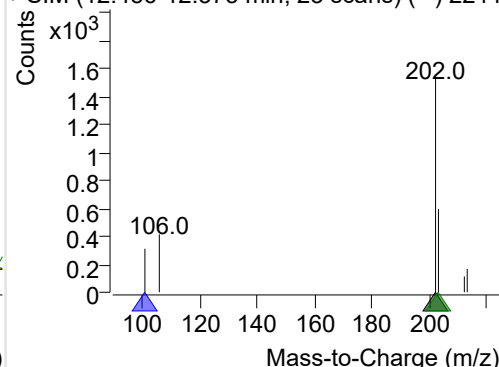
+ Selected Ion (202.0) 221107-PAHs-017.D



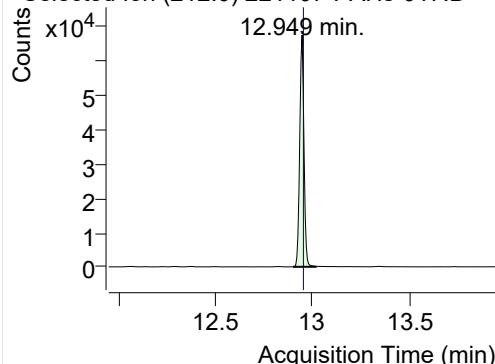
202.0, 101.0, 203.0



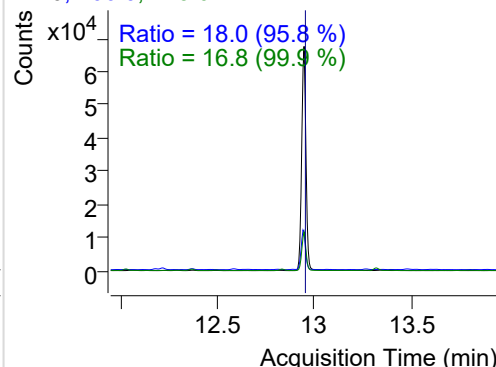
+ SIM (12.456-12.575 min, 23 scans) (**) 2211

**LSS-D10-Pyrene**

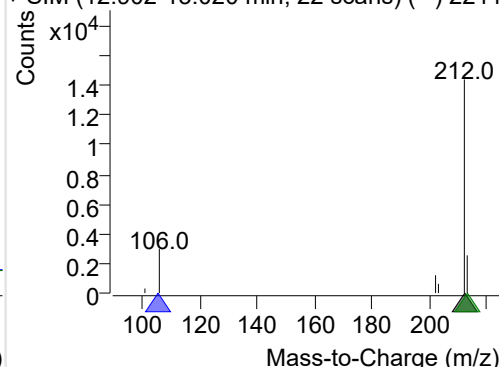
+ Selected Ion (212.0) 221107-PAHs-017.D



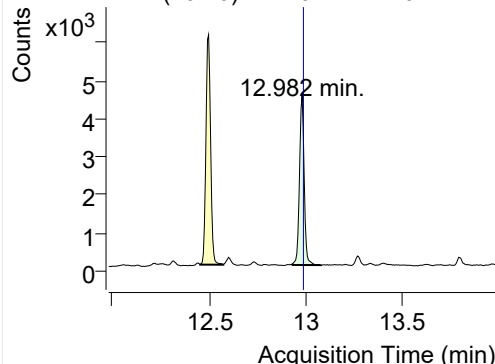
212.0, 106.0, 213.0



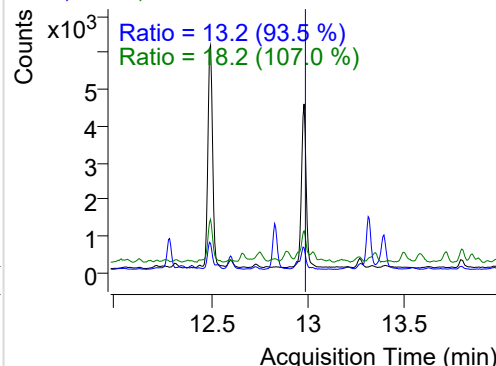
+ SIM (12.902-13.020 min, 22 scans) (**) 2211

**Pyrene**

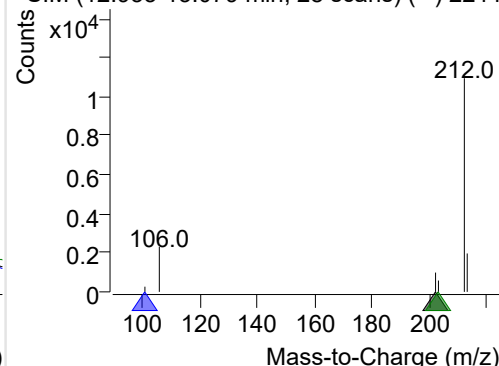
+ Selected Ion (202.0) 221107-PAHs-017.D



202.0, 101.0, 203.0

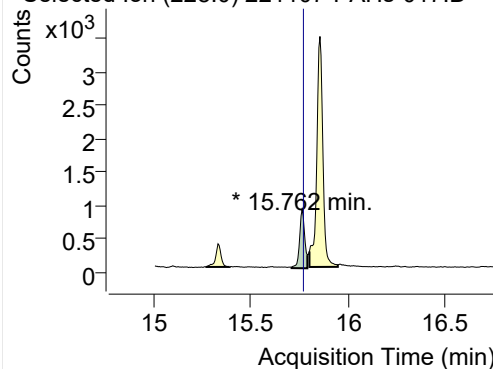


+ SIM (12.933-13.079 min, 28 scans) (**) 2211

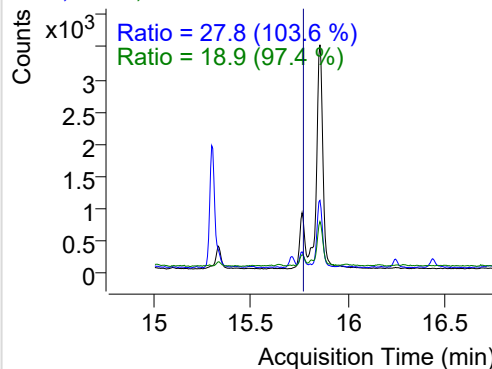


Benz(a)anthracene

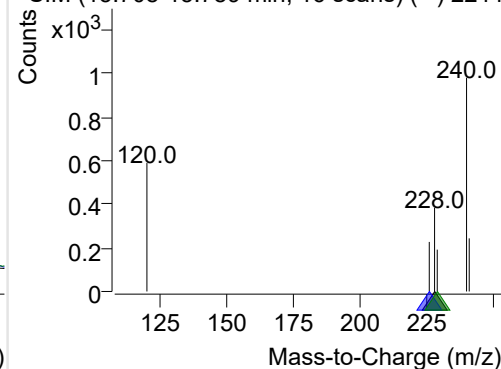
+ Selected Ion (228.0) 221107-PAHs-017.D



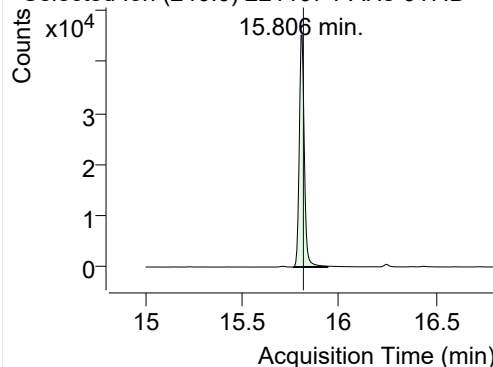
228.0, 226.0, 229.0



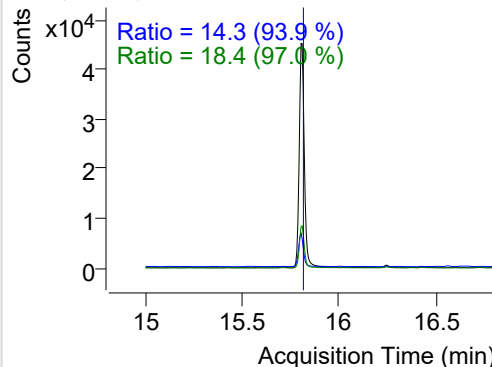
+ SIM (15.708-15.789 min, 16 scans) (**) 2211

**IS-D12-Chrysene**

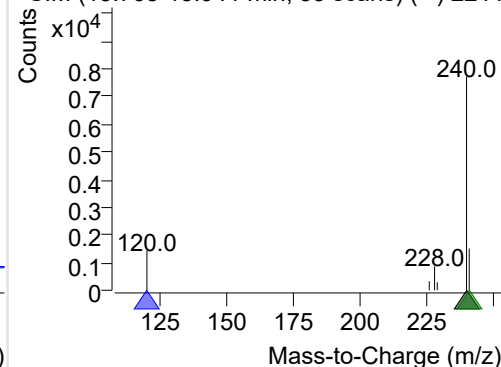
+ Selected Ion (240.0) 221107-PAHs-017.D



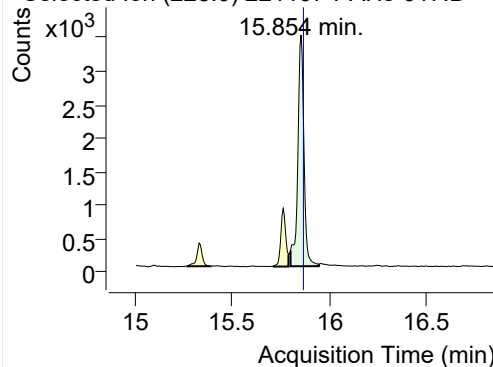
240.0, 120.0, 241.0



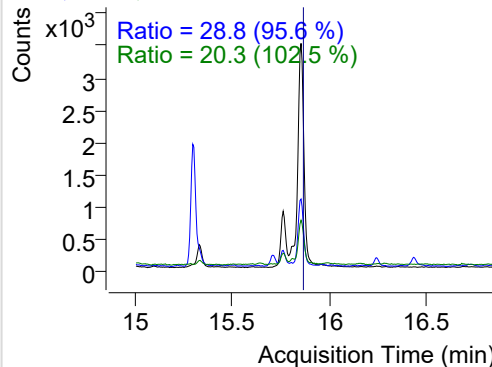
+ SIM (15.768-15.941 min, 33 scans) (**) 2211

**Chrysene**

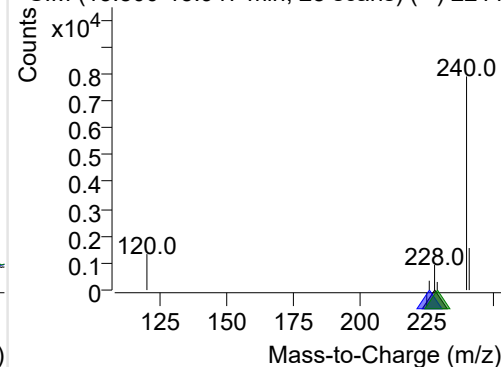
+ Selected Ion (228.0) 221107-PAHs-017.D



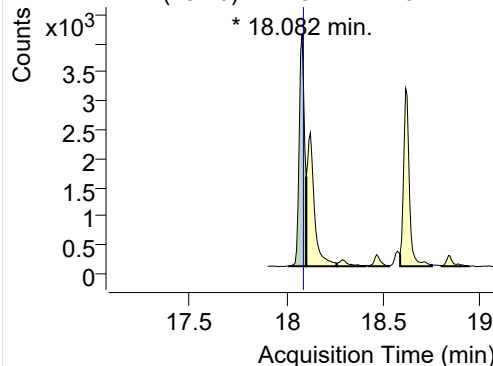
228.0, 226.0, 229.0



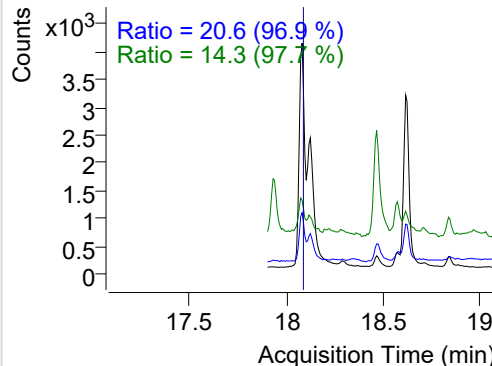
+ SIM (15.800-15.947 min, 28 scans) (**) 2211

**Benzo(b)fluoranthene**

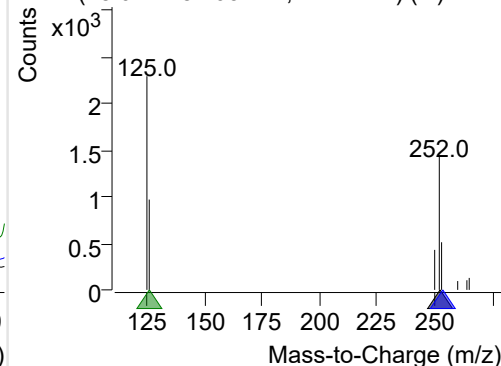
+ Selected Ion (252.0) 221107-PAHs-017.D



252.0, 253.0, 126.0

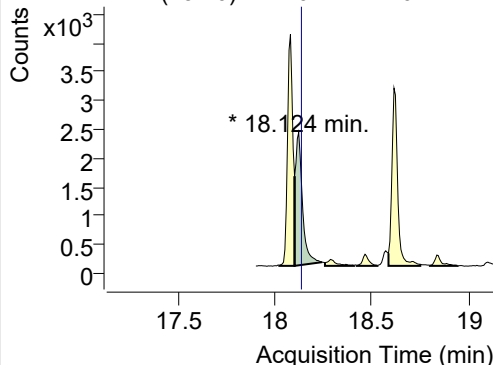


+ SIM (18.011-18.103 min, 14 scans) (**) 2211

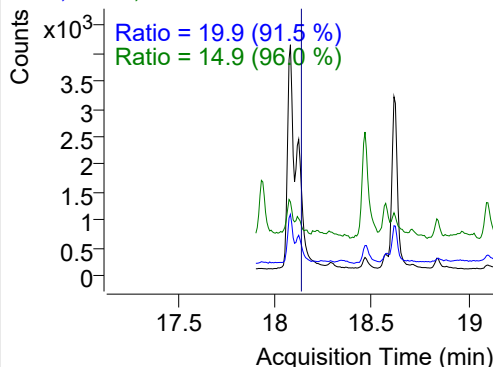


Benzo(k)fluoranthene

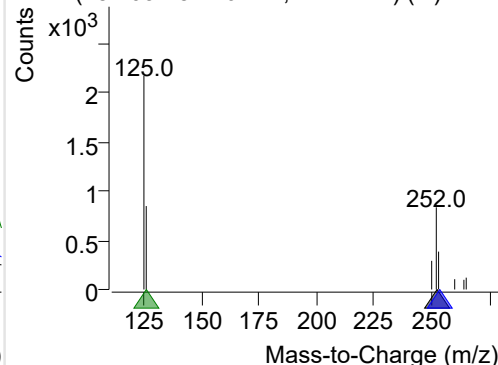
+ Selected Ion (252.0) 221107-PAHs-017.D



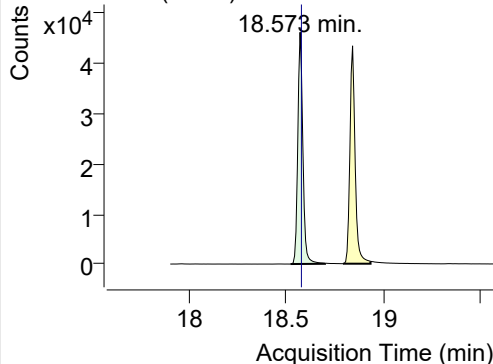
252.0, 253.0, 126.0



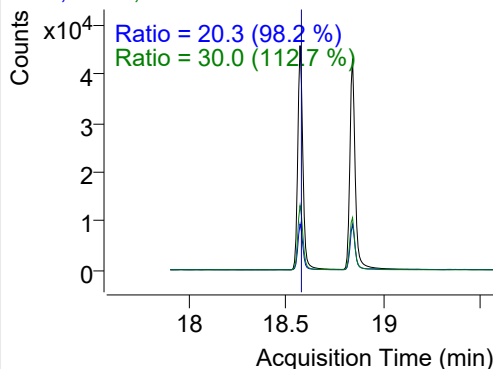
+ SIM (18.103-18.246 min, 21 scans) (**) 2211

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

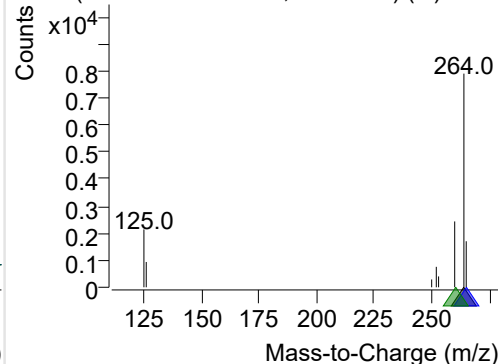
+ Selected Ion (264.0) 221107-PAHs-017.D



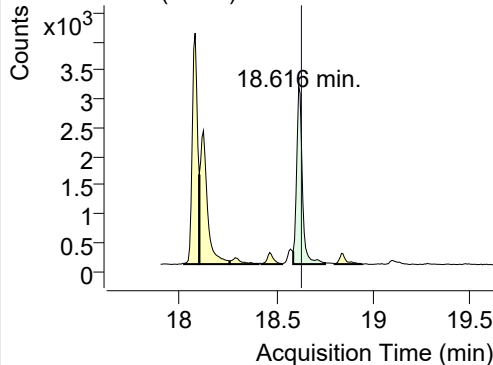
264.0, 265.0, 260.0



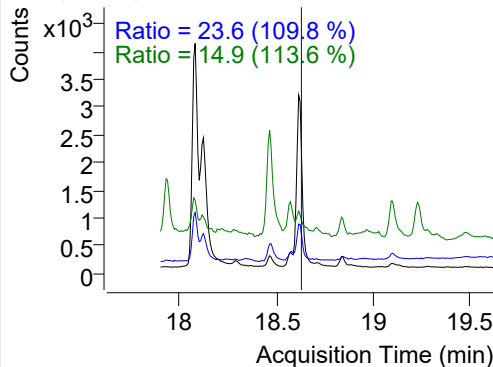
+ SIM (18.524-18.701 min, 25 scans) (**) 2211

**Benzo(e)pyrene**

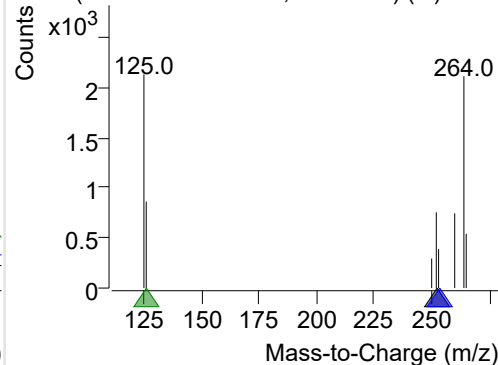
+ Selected Ion (252.0) 221107-PAHs-017.D



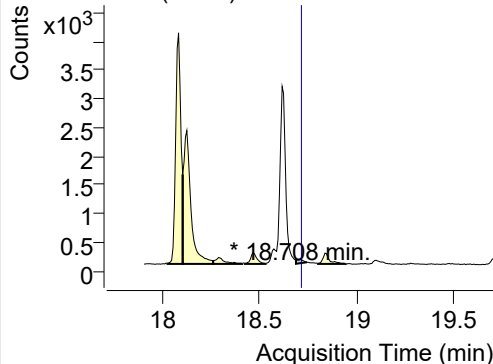
252.0, 253.0, 126.0



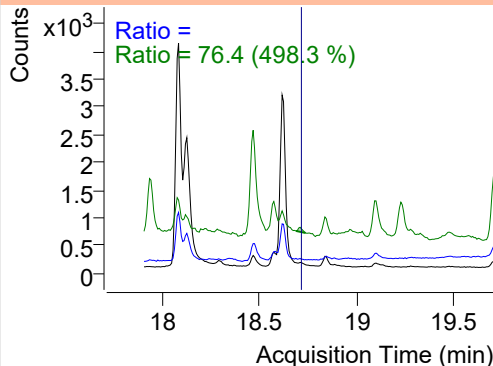
+ SIM (18.587-18.751 min, 24 scans) (**) 2211

**Benzo(a)pyrene**

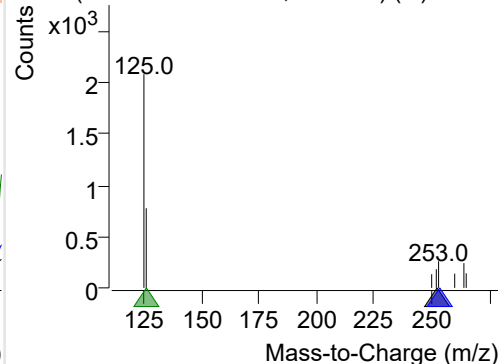
+ Selected Ion (252.0) 221107-PAHs-017.D



252.0, 253.0, 126.0

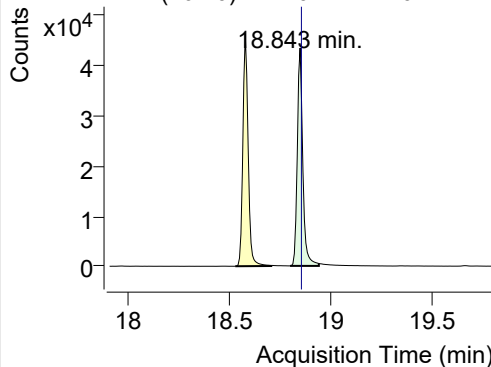


+ SIM (18.687-18.744 min, 9 scans) (**) 22110

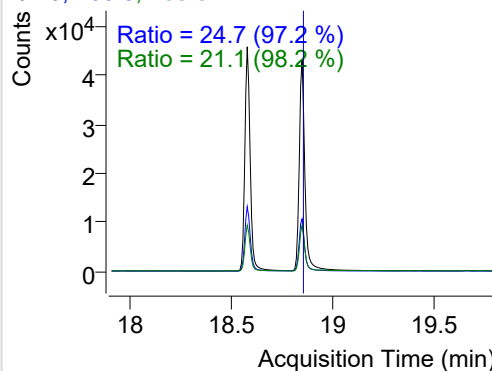


IS-D12-Perylene

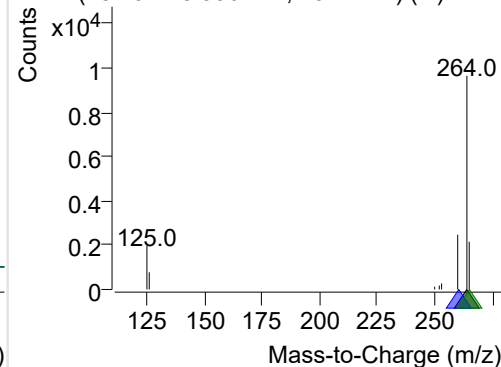
+ Selected Ion (264.0) 221107-PAHs-017.D



264.0, 260.0, 265.0

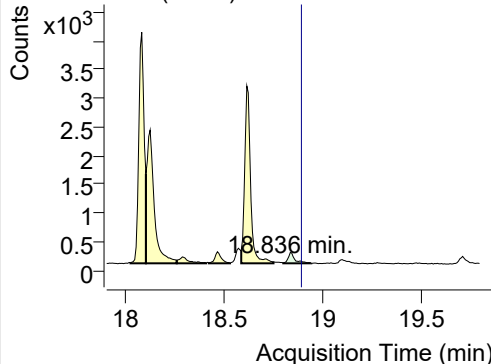


+ SIM (18.794-18.936 min, 20 scans) (**) 2211

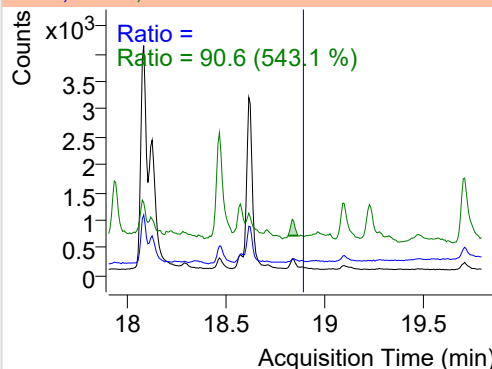


Perylene

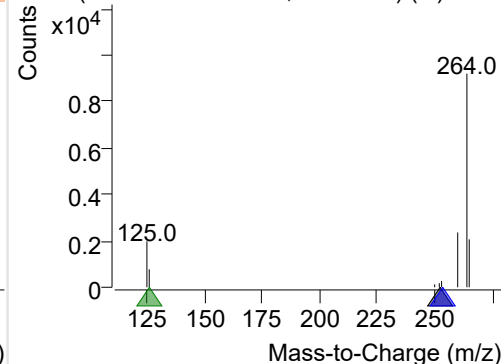
+ Selected Ion (252.0) 221107-PAHs-017.D



252.0, 253.0, 126.0

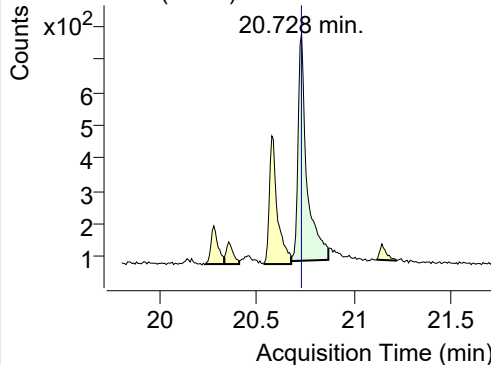


+ SIM (18.801-18.943 min, 21 scans) (**) 2211

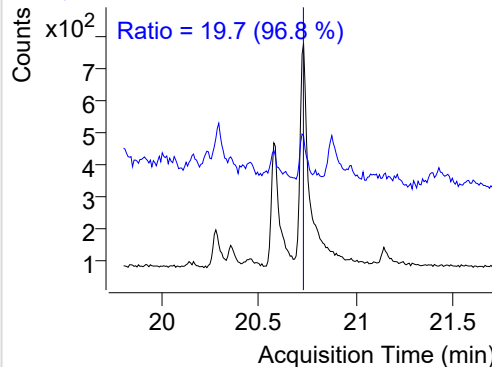


Indeno(1,2,3-c,d)pyrene

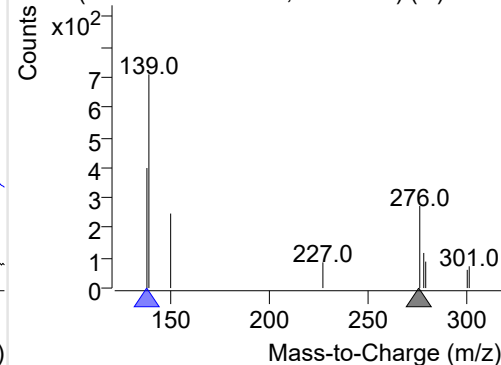
+ Selected Ion (276.0) 221107-PAHs-017.D



276.0, 138.0

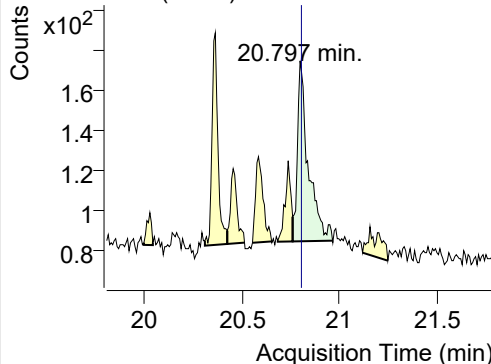


+ SIM (20.675-20.866 min, 26 scans) (**) 2211

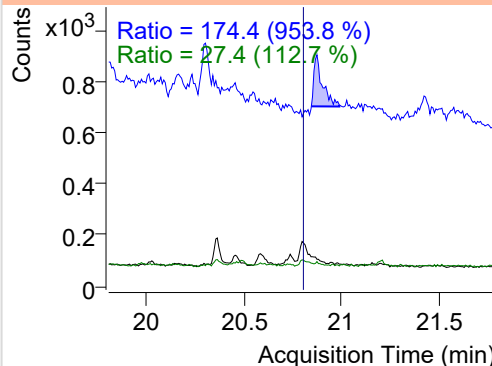


Dibenz(a,h)anthracene

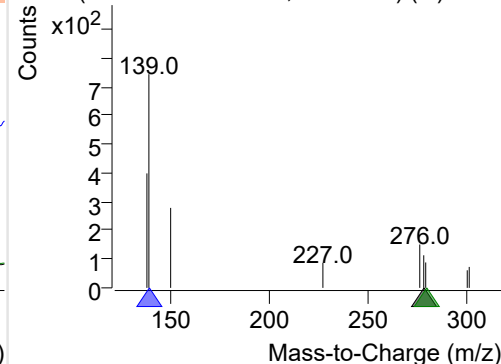
+ Selected Ion (278.0) 221107-PAHs-017.D



278.0, 139.0, 279.0



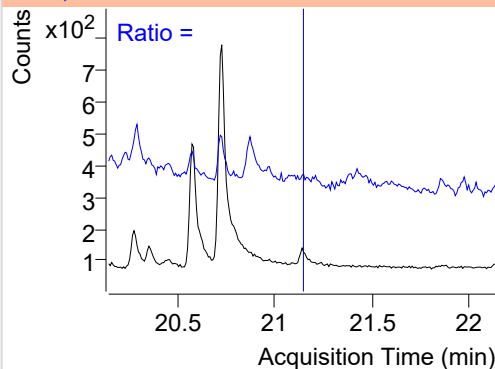
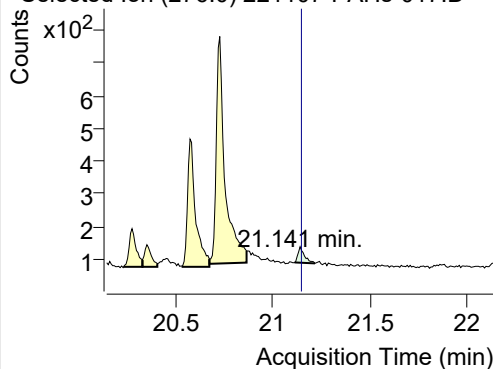
+ SIM (20.759-20.964 min, 27 scans) (**) 2211



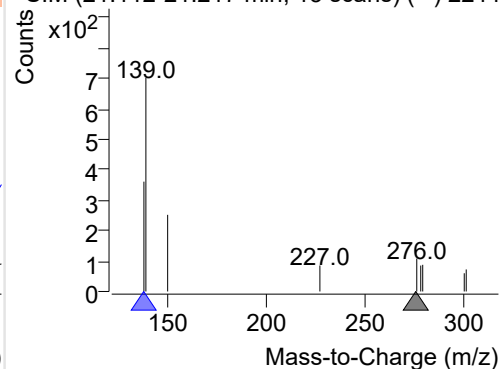
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-017.D

276.0, 138.0

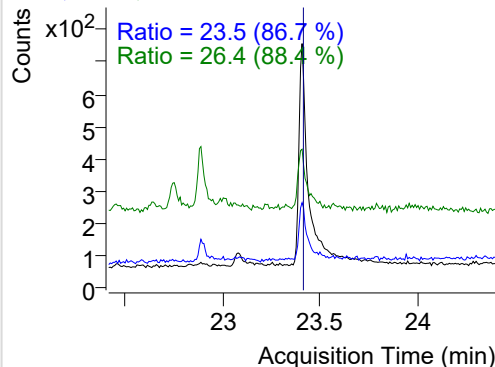
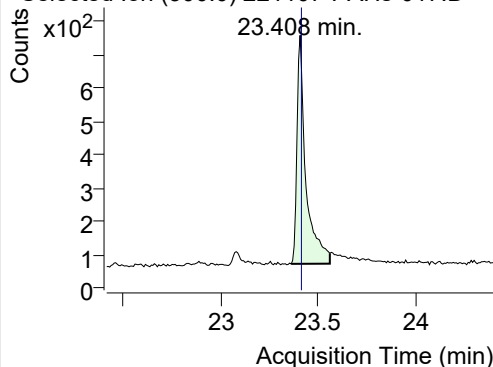


+ SIM (21.112-21.217 min, 13 scans) (**) 2211

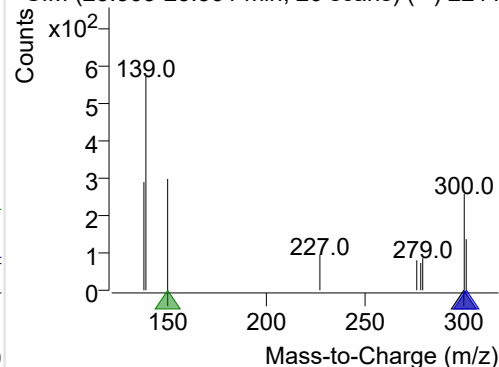
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-017.D

300.0, 301.0, 150.0



+ SIM (23.363-23.561 min, 26 scans) (**) 2211



Quantitative Analysis Sample Based Report

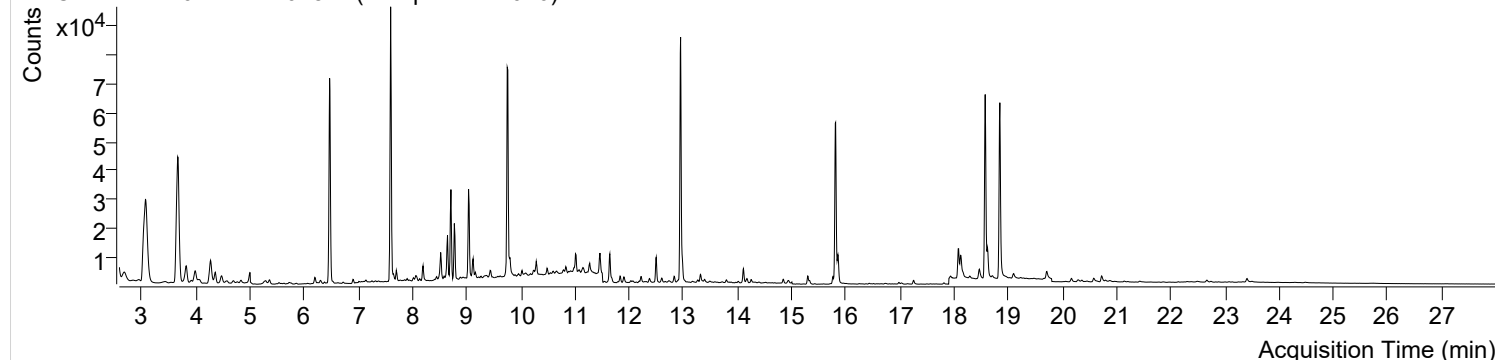


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 12:50:04	Data File	221107-PAHs-018.D
Type	Sample	Name	Sample-PM-1026
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

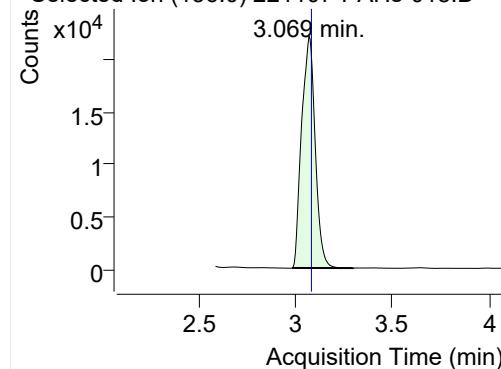
+ TIC SIM 221107-PAHs-018.D (Sample-PM-1026)



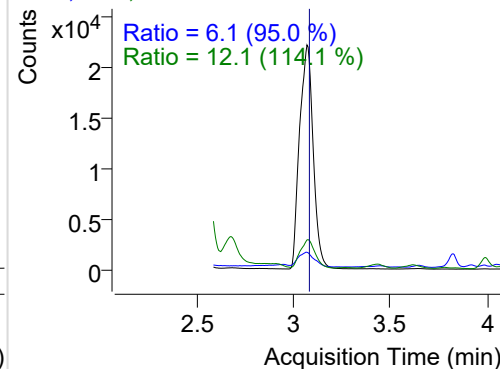
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	107538	22164.40	ND ng/ml	12.1
Naphthalene	3.096	128.0	12143	2434.98	ND ng/ml	12.5
Acenaphthylene	6.197	152.0	857	369.46	ND ng/ml	164.6
IS-D10-Acenaphthene	6.469	164.0	60339	33410.55	ND ng/ml	99.1
Acenaphthene	6.534	154.0	330	170.05	ND ng/ml	105.7
LSS-D10-Fluorene	7.595	176.0	68798	42072.98	ND ng/ml	95.1
Fluorene	7.648	166.0	626	317.63	ND ng/ml	142.4
IS-D10-Phenanthrene	9.759	188.0	102721	57908.37	ND ng/ml	15.7
Phenanthrene	9.801	178.0	5853	3447.19	ND ng/ml	19.2
Anthracene	9.895	178.0	255	164.60	ND ng/ml	11.4
Fluoranthene	12.499	202.0	10494	6588.27	ND ng/ml	18.3
LSS-D10-Pyrene	12.949	212.0	99304	63036.41	ND ng/ml	17.9
Pyrene	12.981	202.0	8895	5329.45	ND ng/ml	17.9
Benz(a)anthracene	15.762	228.0	3276	1792.33	ND ng/ml	28.8
IS-D12-Chrysene	15.811	240.0	77750	42103.15	ND ng/ml	18.6
Chrysene	15.854	228.0	12419	5964.59	ND ng/ml	29.2
Benzo(b)fluoranthene	18.082	252.0	11754	6036.12	ND ng/ml	21.5
Benzo(k)fluoranthene	18.124	252.0	11637	4608.66	ND ng/ml	22.3
SS-D12-Benzo(e)pyrene	18.573	264.0	77256	42417.34	ND ng/ml	27.3
Benzo(e)pyrene	18.615	252.0	9575	4873.31	ND ng/ml	21.7
Benzo(a)pyrene	18.687	252.0	159	77.59	ND ng/ml	
IS-D12-Perylene	18.843	264.0	78276	41234.00	ND ng/ml	24.8
Perylene	18.879	252.0	50	30.34	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.721	276.0	5134	1649.19	ND ng/ml	17.4
Dibenz(a,h)anthracene	20.797	278.0	866	240.96	ND ng/ml	17.9
Benzo(g,h,i)perylene	21.141	276.0	432	192.04	ND ng/ml	28.1
Coronene	23.408	300.0	2475	801.82	ND ng/ml	27.7

IS-D8-Naphthalene

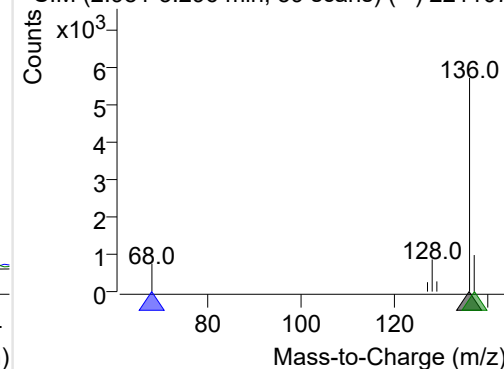
+ Selected Ion (136.0) 221107-PAHs-018.D



136.0, 68.0, 137.0

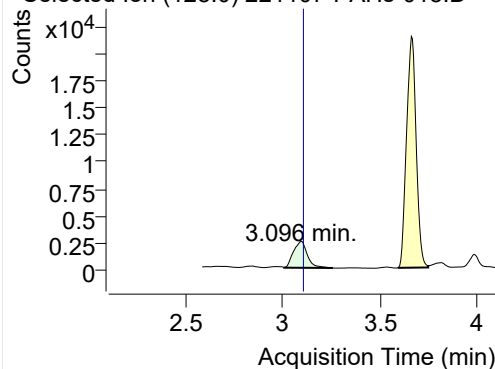


+ SIM (2.981-3.296 min, 59 scans) (**) 221107

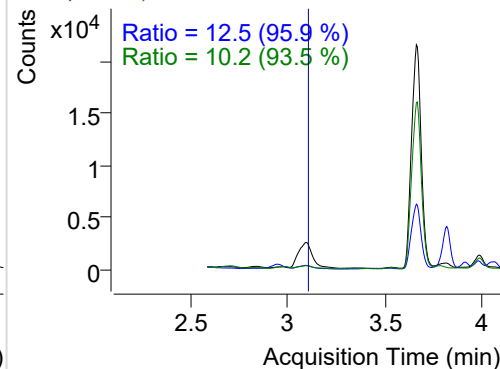


Naphthalene

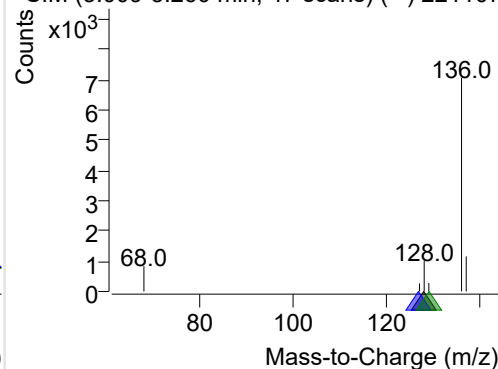
+ Selected Ion (128.0) 221107-PAHs-018.D



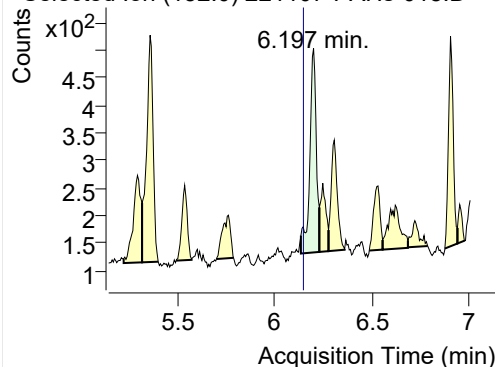
128.0, 127.0, 129.0



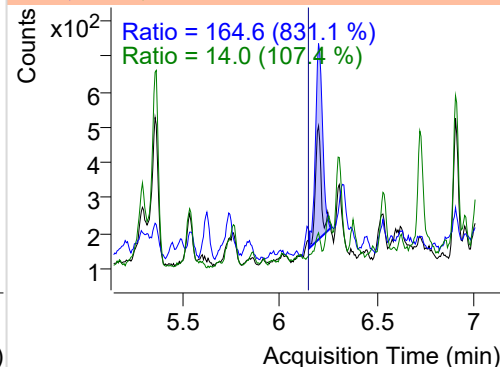
+ SIM (3.009-3.260 min, 47 scans) (**) 221107

**Acenaphthylene**

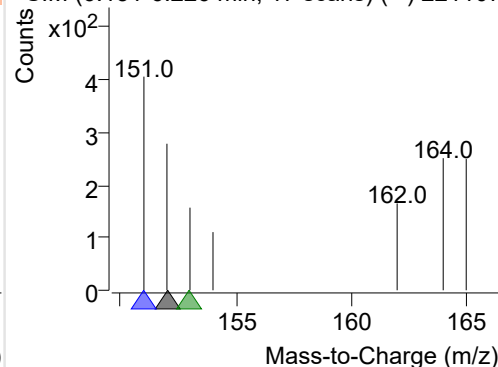
+ Selected Ion (152.0) 221107-PAHs-018.D



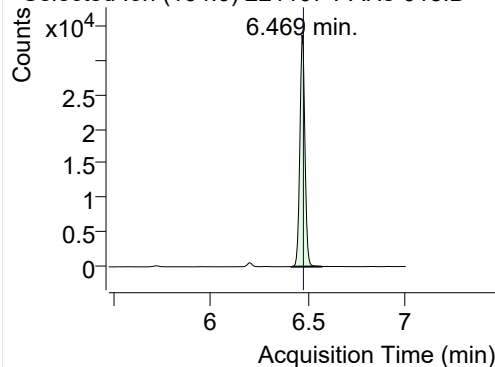
152.0, 151.0, 153.0



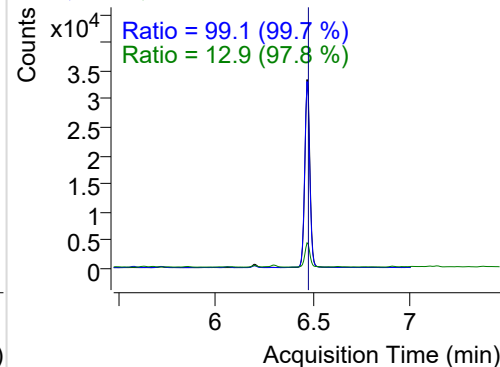
+ SIM (6.131-6.226 min, 17 scans) (**) 221107

**IS-D10-Acenaphthene**

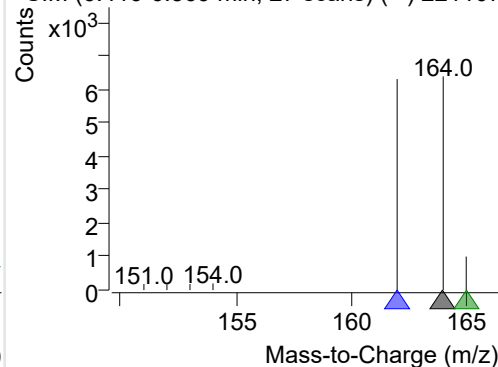
+ Selected Ion (164.0) 221107-PAHs-018.D



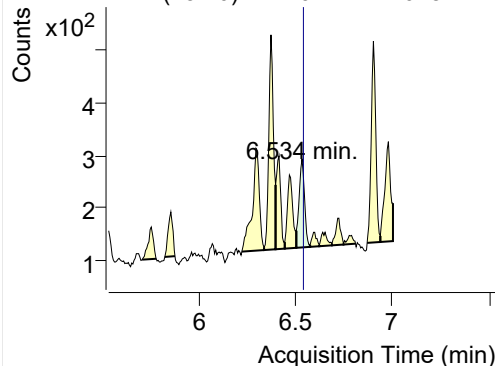
164.0, 162.0, 165.0



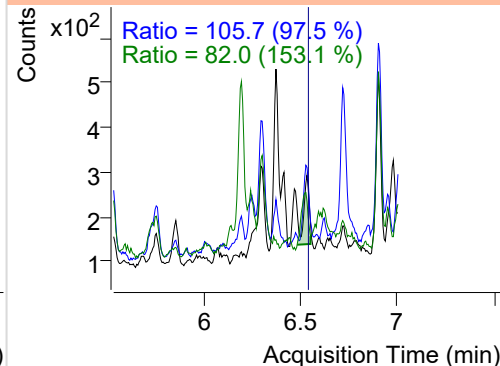
+ SIM (6.416-6.569 min, 27 scans) (**) 221107

**Acenaphthene**

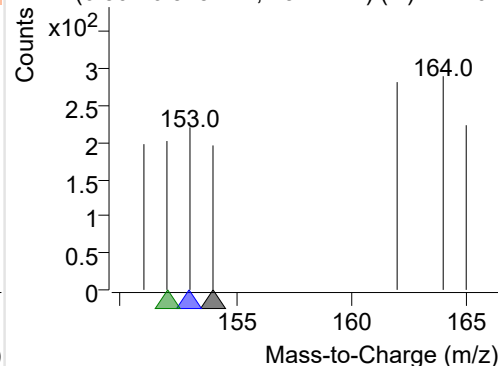
+ Selected Ion (154.0) 221107-PAHs-018.D



154.0, 153.0, 152.0

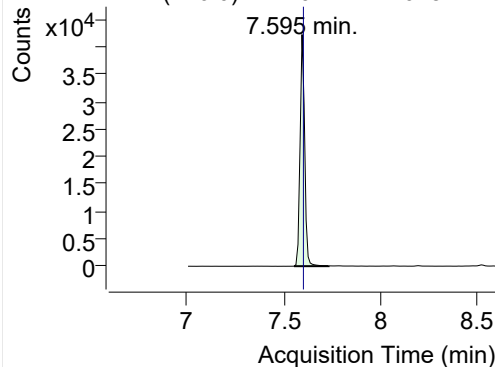


+ SIM (6.504-6.575 min, 13 scans) (**) 221107

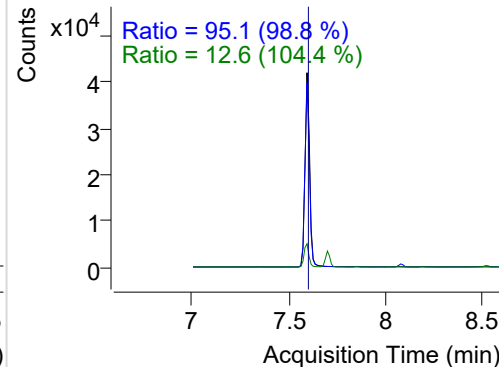


LSS-D10-Fluorene

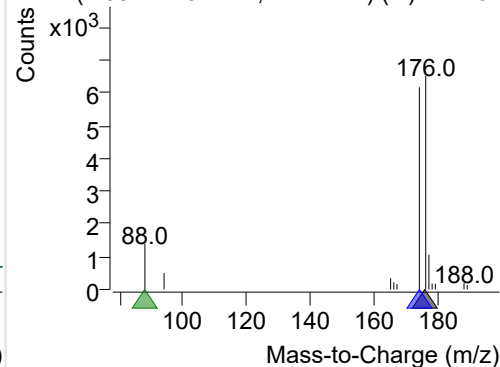
+ Selected Ion (176.0) 221107-PAHs-018.D



176.0, 174.0, 88.0

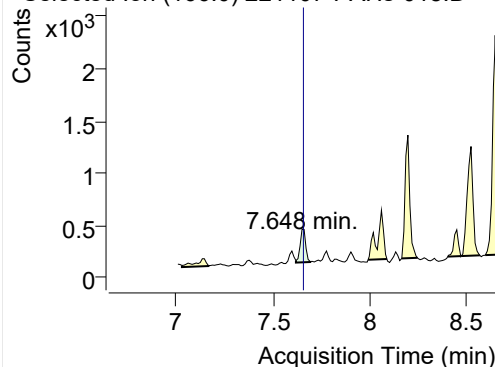


+ SIM (7.554-7.732 min, 17 scans) (**) 221107

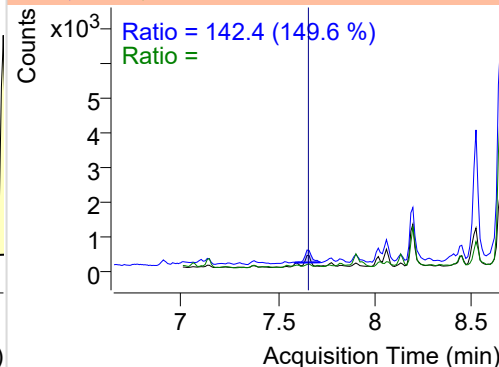


Fluorene

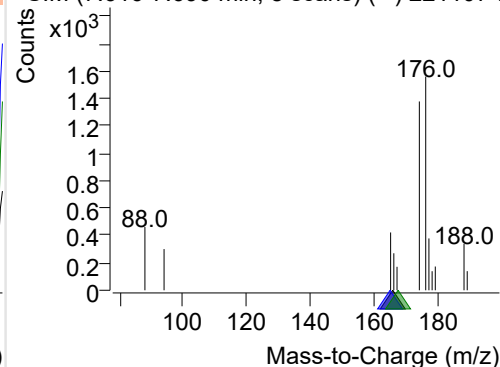
+ Selected Ion (166.0) 221107-PAHs-018.D



166.0, 165.0, 167.0

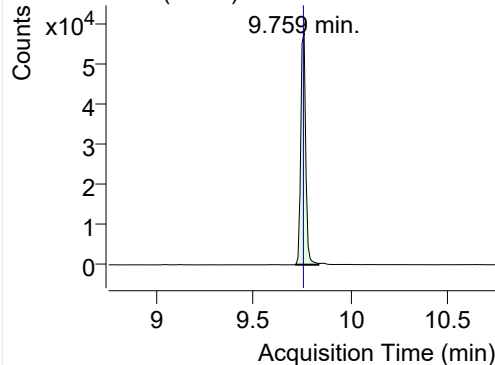


+ SIM (7.616-7.690 min, 8 scans) (**) 221107-I

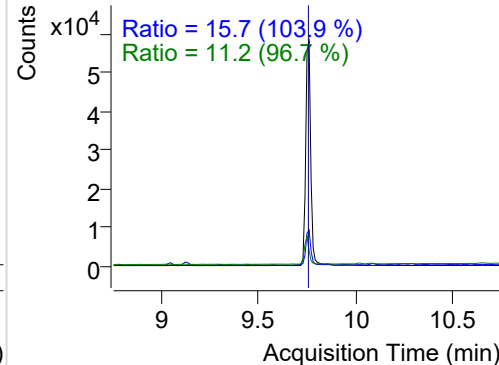


IS-D10-Phenanthrene

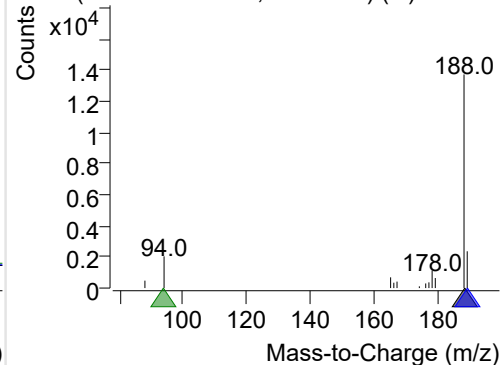
+ Selected Ion (188.0) 221107-PAHs-018.D



188.0, 189.0, 94.0

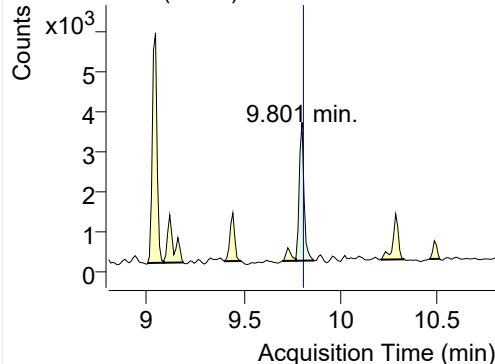


+ SIM (9.712-9.832 min, 12 scans) (**) 221107

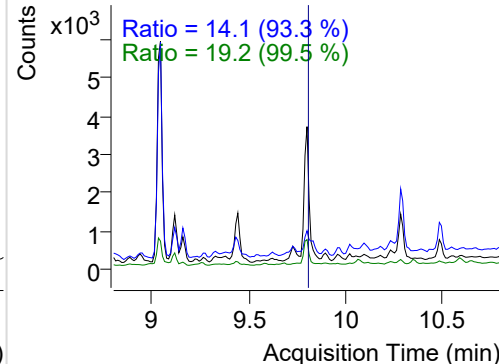


Phenanthrene

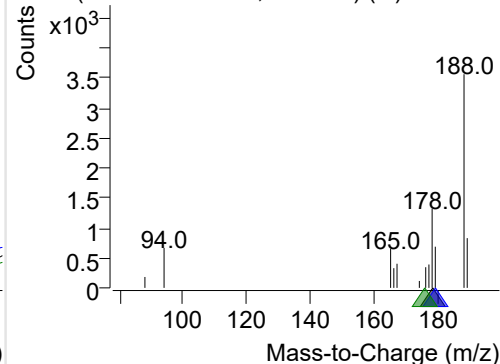
+ Selected Ion (178.0) 221107-PAHs-018.D



178.0, 179.0, 176.0

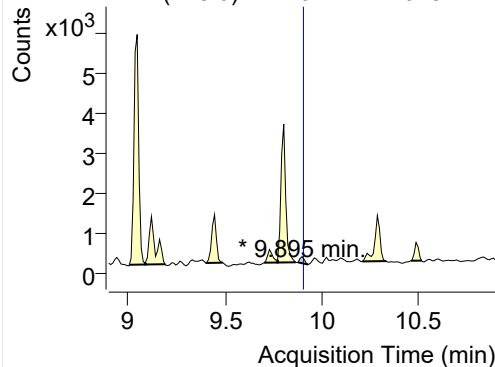


+ SIM (9.769-9.862 min, 9 scans) (**) 221107-I

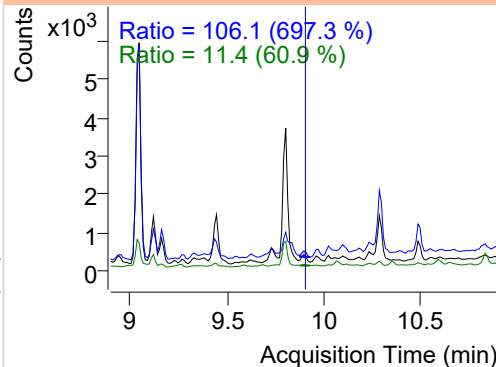


Anthracene

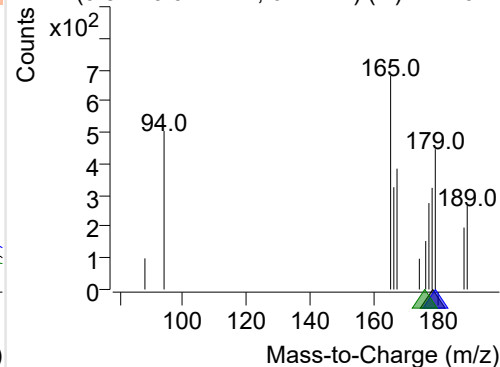
+ Selected Ion (178.0) 221107-PAHs-018.D



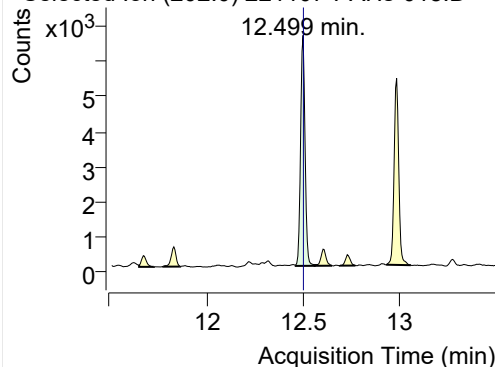
178.0, 179.0, 176.0



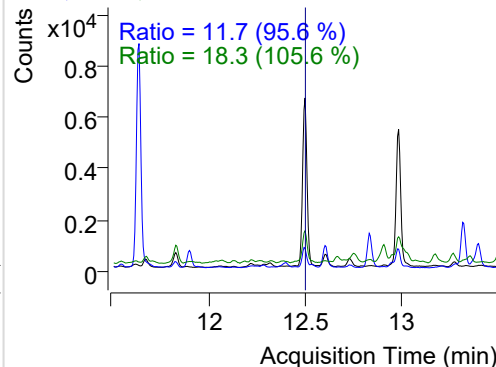
+ SIM (9.874-9.927 min, 6 scans) (**) 221107-I

**Fluoranthene**

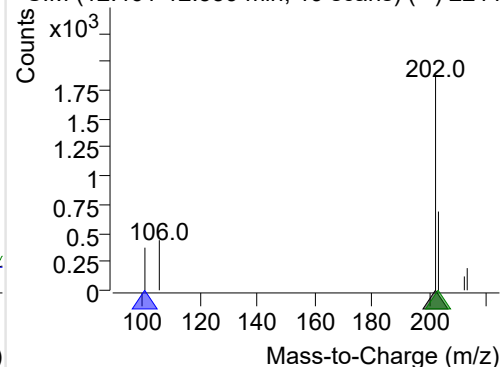
+ Selected Ion (202.0) 221107-PAHs-018.D



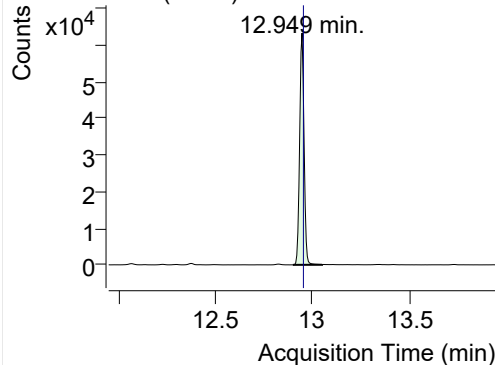
202.0, 101.0, 203.0



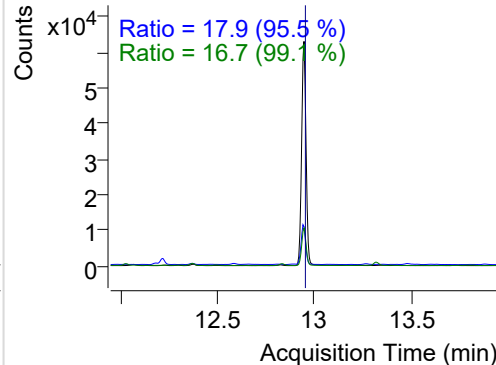
+ SIM (12.461-12.559 min, 19 scans) (**) 2211

**LSS-D10-Pyrene**

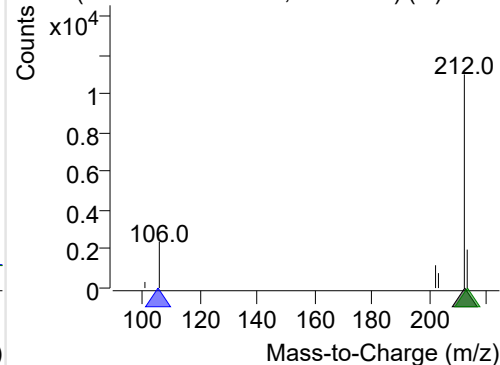
+ Selected Ion (212.0) 221107-PAHs-018.D



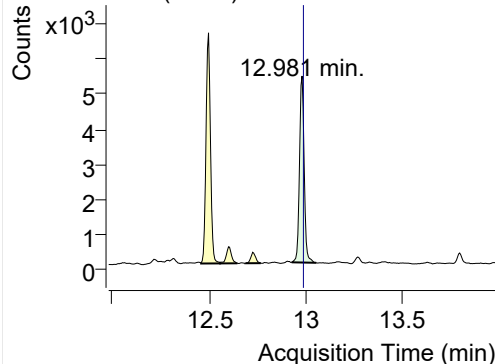
212.0, 106.0, 213.0



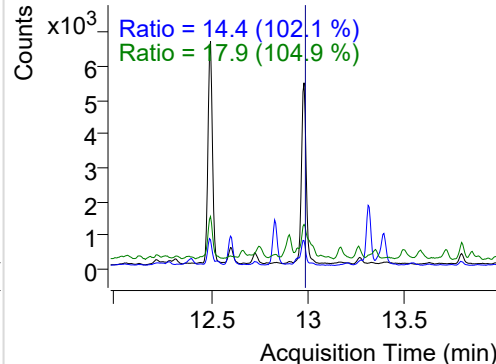
+ SIM (12.901-13.052 min, 28 scans) (**) 2211

**Pyrene**

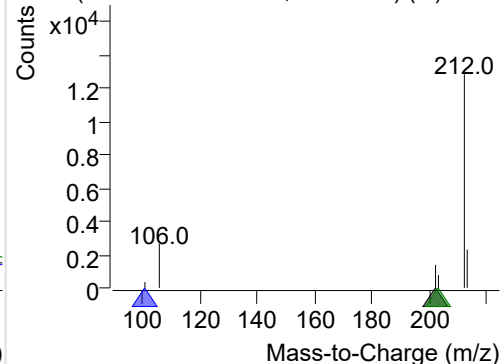
+ Selected Ion (202.0) 221107-PAHs-018.D



202.0, 101.0, 203.0

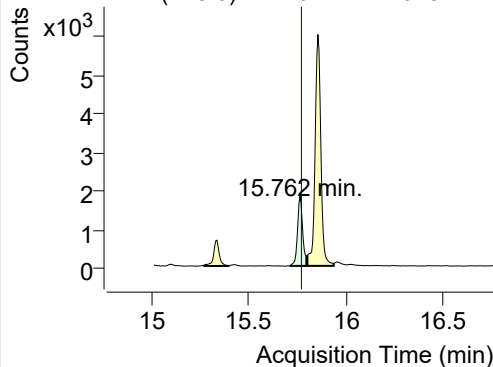


+ SIM (12.933-13.055 min, 23 scans) (**) 2211

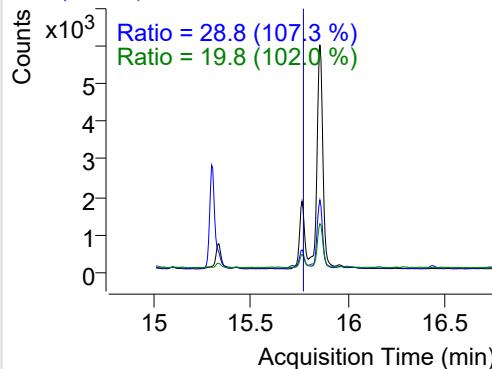


Benz(a)anthracene

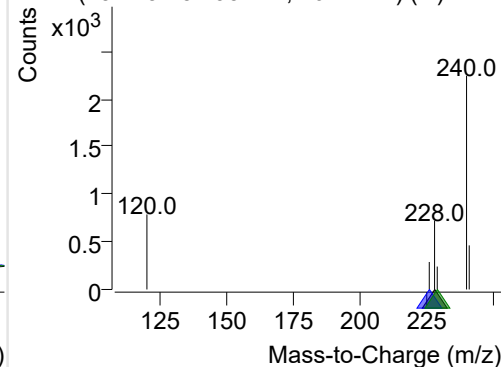
+ Selected Ion (228.0) 221107-PAHs-018.D



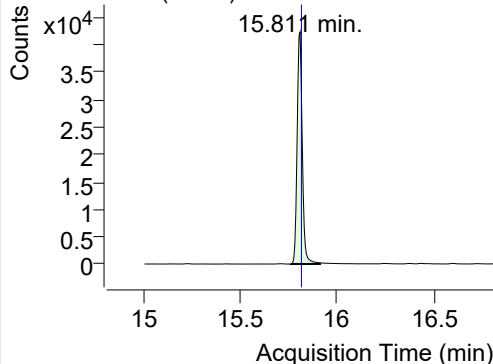
228.0, 226.0, 229.0



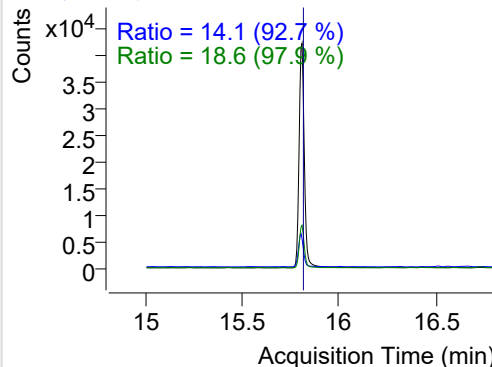
+ SIM (15.713-15.795 min, 16 scans) (**) 2211

**IS-D12-Chrysene**

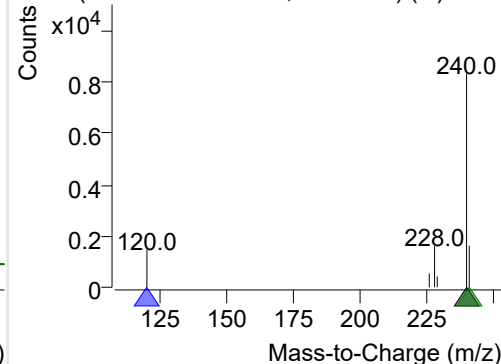
+ Selected Ion (240.0) 221107-PAHs-018.D



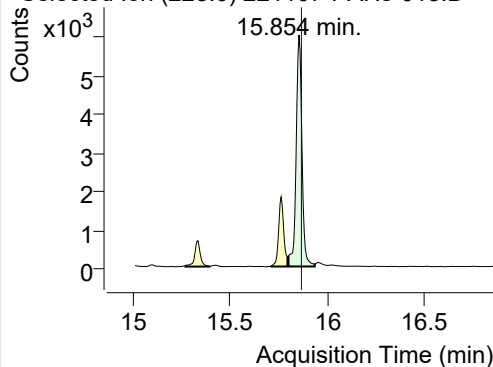
240.0, 120.0, 241.0



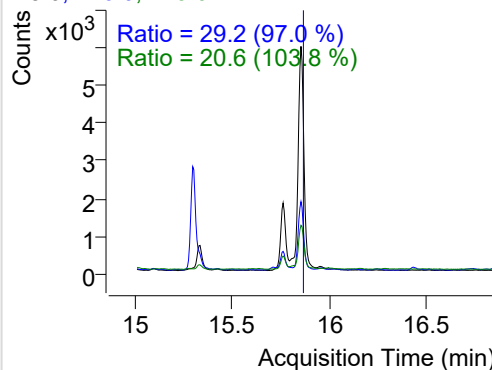
+ SIM (15.762-15.914 min, 29 scans) (**) 2211

**Chrysene**

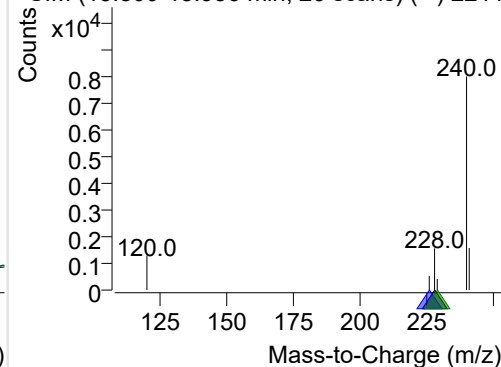
+ Selected Ion (228.0) 221107-PAHs-018.D



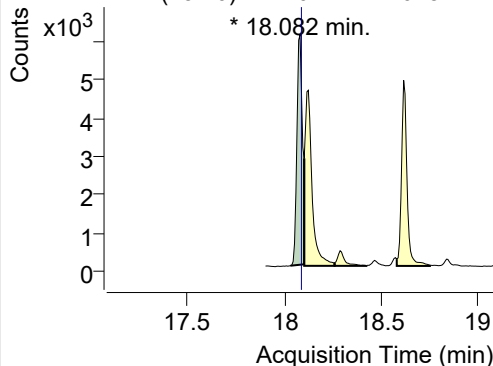
228.0, 226.0, 229.0



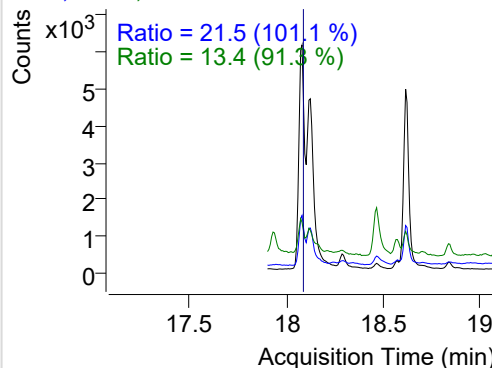
+ SIM (15.800-15.936 min, 26 scans) (**) 2211

**Benzo(b)fluoranthene**

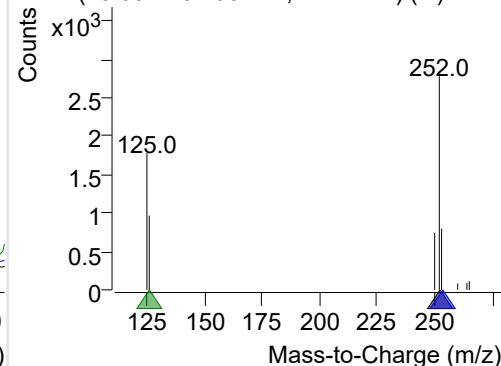
+ Selected Ion (252.0) 221107-PAHs-018.D



252.0, 253.0, 126.0

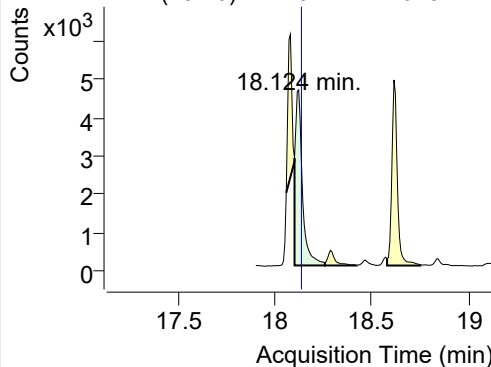


+ SIM (18.032-18.103 min, 11 scans) (**) 2211

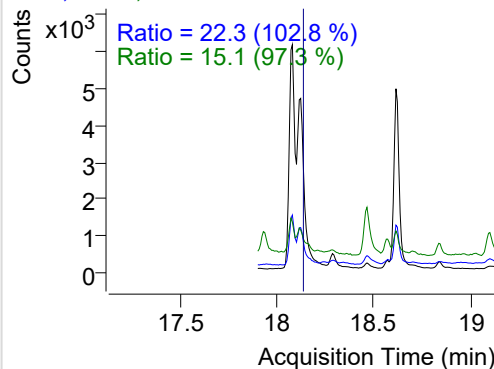


Benzo(k)fluoranthene

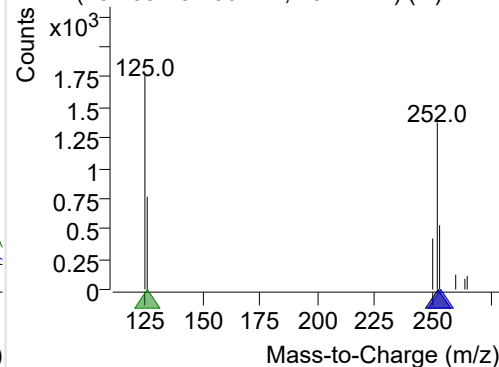
+ Selected Ion (252.0) 221107-PAHs-018.D



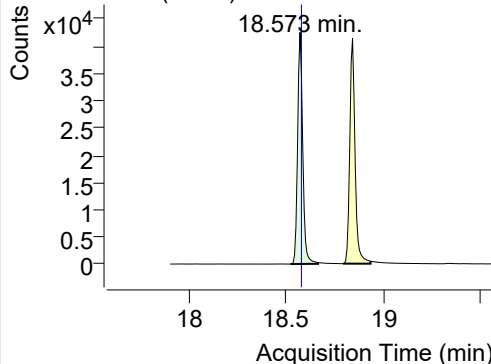
252.0, 253.0, 126.0



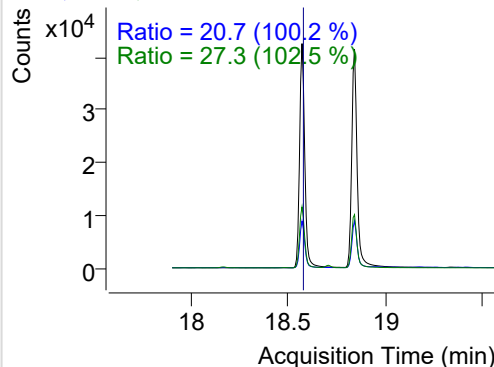
+ SIM (18.103-18.260 min, 23 scans) (**) 2211

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

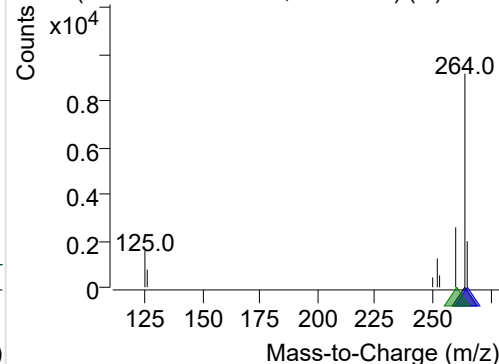
+ Selected Ion (264.0) 221107-PAHs-018.D



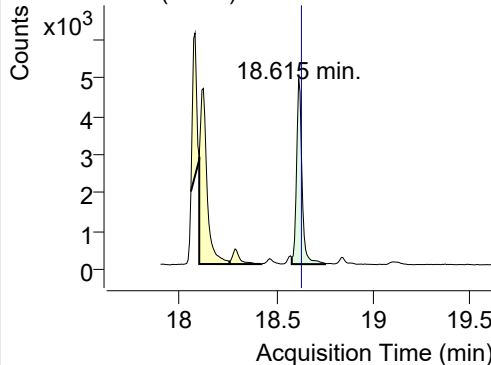
264.0, 265.0, 260.0



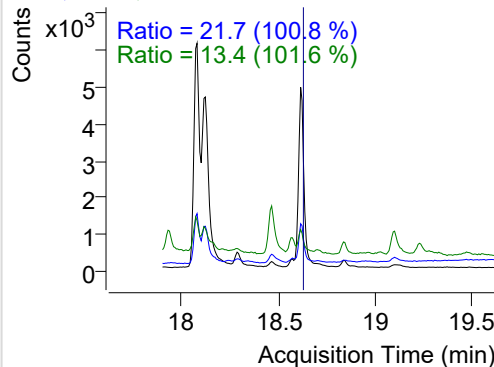
+ SIM (18.523-18.665 min, 20 scans) (**) 2211

**Benzo(e)pyrene**

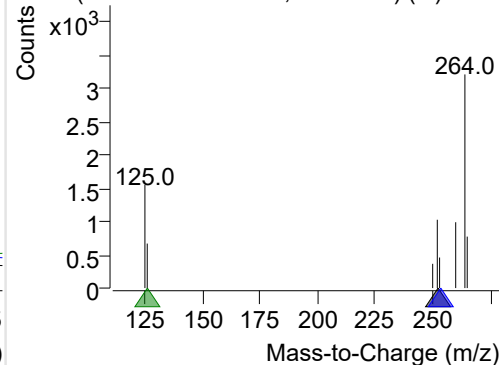
+ Selected Ion (252.0) 221107-PAHs-018.D



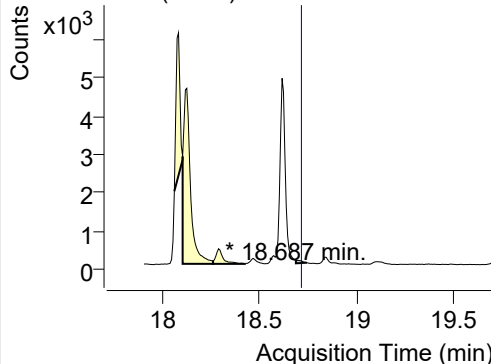
252.0, 253.0, 126.0



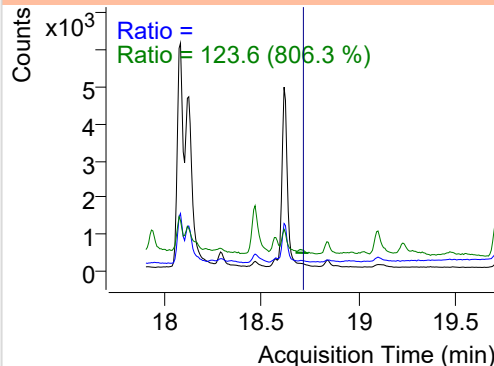
+ SIM (18.580-18.751 min, 25 scans) (**) 2211

**Benzo(a)pyrene**

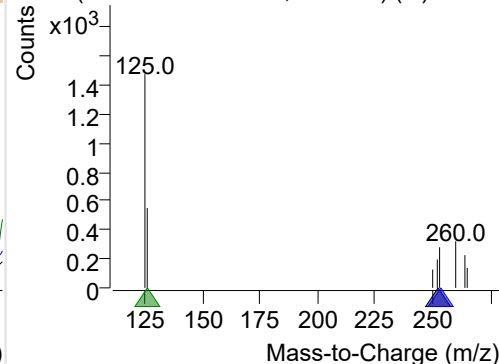
+ Selected Ion (252.0) 221107-PAHs-018.D



252.0, 253.0, 126.0

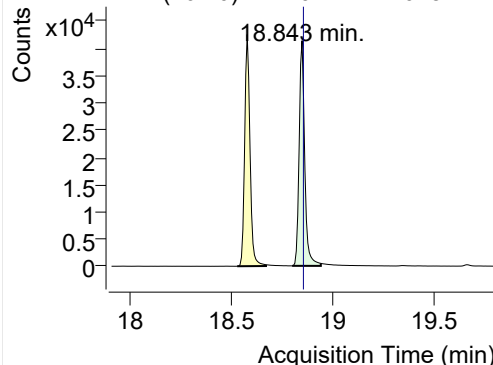


+ SIM (18.687-18.744 min, 9 scans) (**) 22110

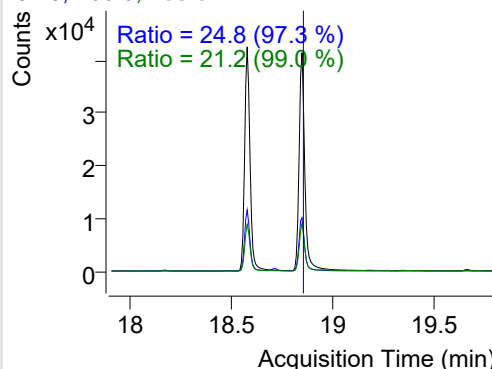


IS-D12-Perylene

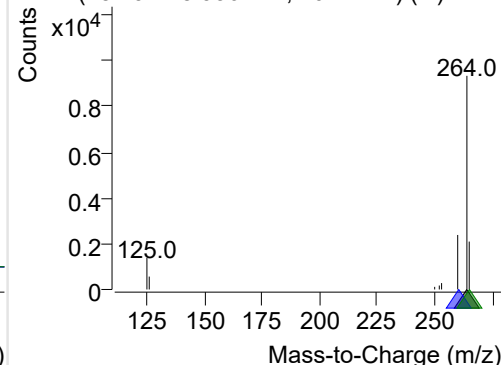
+ Selected Ion (264.0) 221107-PAHs-018.D



264.0, 260.0, 265.0

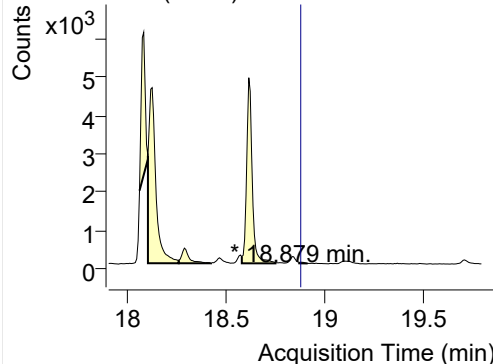


+ SIM (18.794-18.936 min, 20 scans) (**) 2211

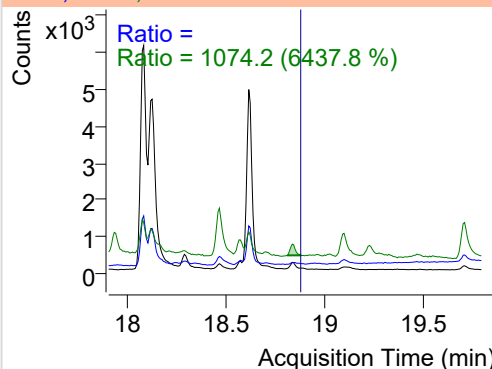


Perylene

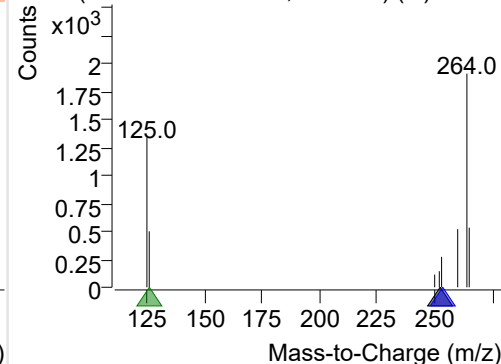
+ Selected Ion (252.0) 221107-PAHs-018.D



252.0, 253.0, 126.0

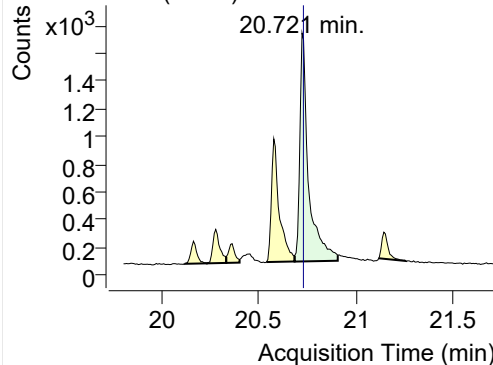


+ SIM (18.872-18.914 min, 7 scans) (**) 22110

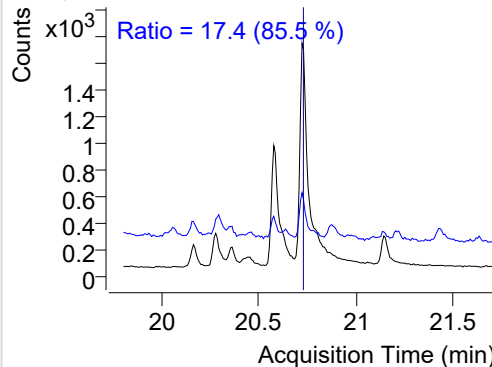


Indeno(1,2,3-c,d)pyrene

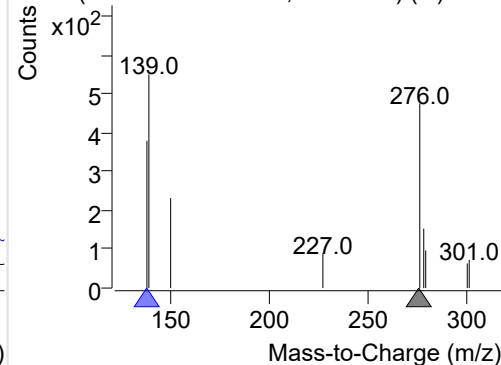
+ Selected Ion (276.0) 221107-PAHs-018.D



276.0, 138.0

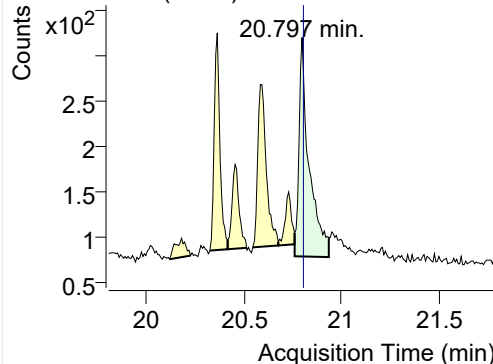


+ SIM (20.682-20.904 min, 30 scans) (**) 2211

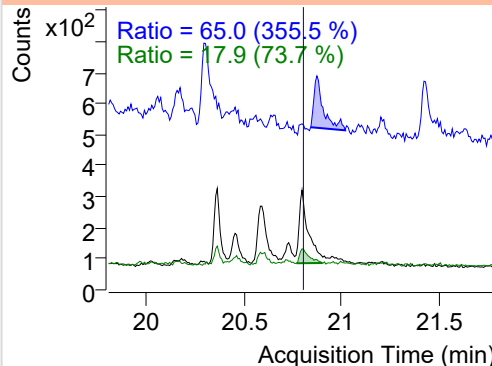


Dibenz(a,h)anthracene

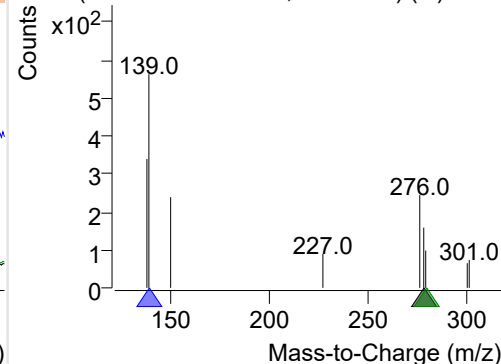
+ Selected Ion (278.0) 221107-PAHs-018.D



278.0, 139.0, 279.0



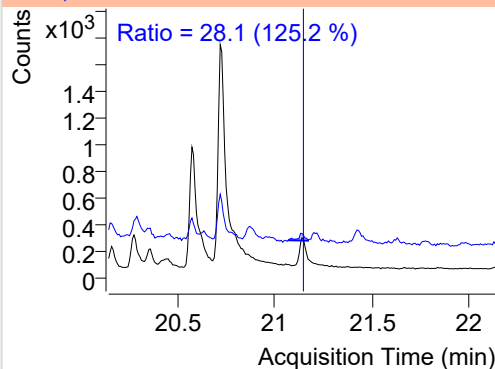
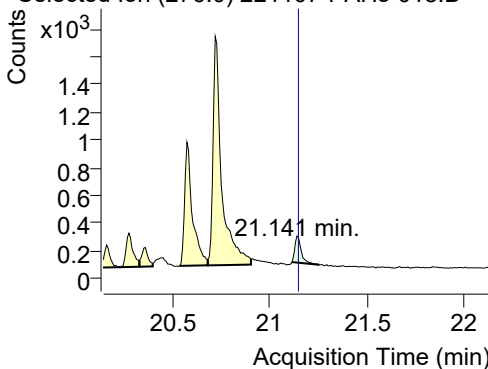
+ SIM (20.759-20.934 min, 24 scans) (**) 2211



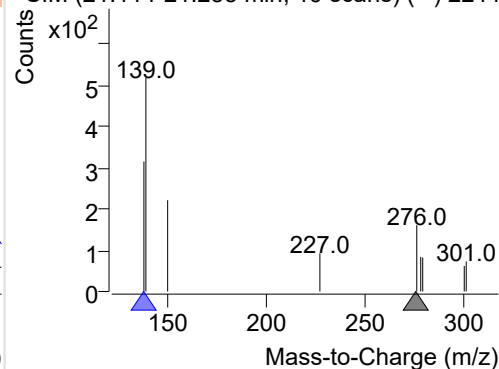
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-018.D

276.0, 138.0

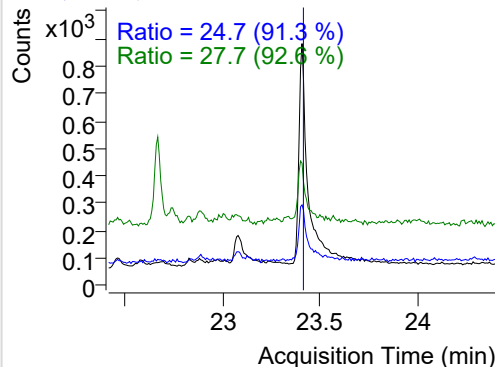
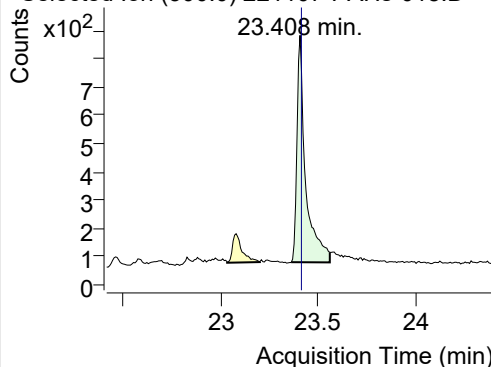


+ SIM (21.114-21.255 min, 19 scans) (**) 2211

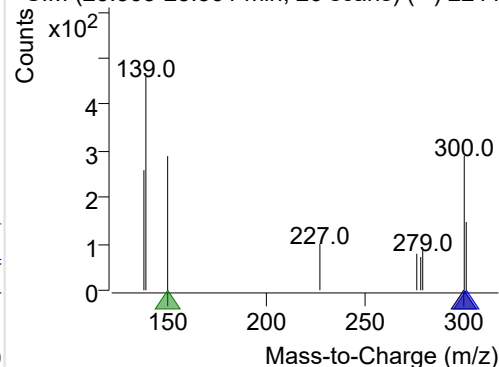
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-018.D

300.0, 301.0, 150.0



+ SIM (23.363-23.561 min, 26 scans) (**) 2211



Quantitative Analysis Sample Based Report

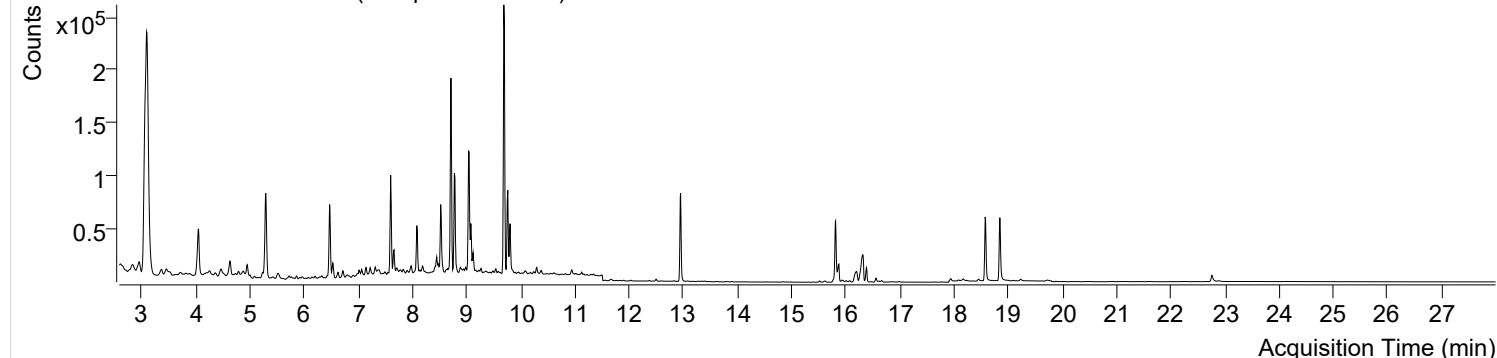


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 1:52:15	Data File	221107-PAHs-020.D
Type	Sample	Name	Sample-Gas-1002
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

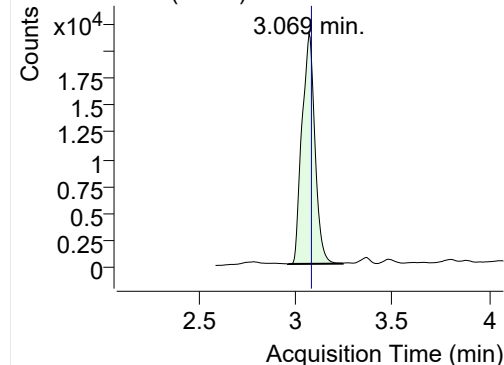
+ TIC SIM 221107-PAHs-020.D (Sample-Gas-1002)



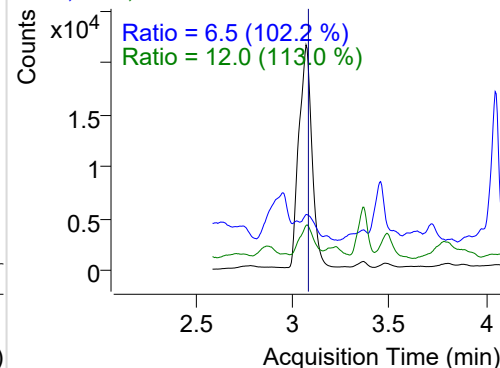
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	99273	21389.86	ND ng/ml	12.0
Naphthalene	3.096	128.0	799100	169548.90	ND ng/ml	13.7
Acenaphthylene	6.144	152.0	1883	962.97	ND ng/ml	30.2
IS-D10-Acenaphthene	6.469	164.0	60646	32428.53	ND ng/ml	97.3
Acenaphthene	6.534	154.0	7084	3691.55	ND ng/ml	115.3
LSS-D10-Fluorene	7.596	176.0	66541	40334.73	ND ng/ml	95.4
Fluorene	7.659	166.0	18808	10113.27	ND ng/ml	106.6
IS-D10-Phenanthrene	9.759	188.0	104170	63430.34	ND ng/ml	16.2
Phenanthrene	9.801	178.0	51120	30043.90	ND ng/ml	18.4
Anthracene	9.896	178.0	874	561.74	ND ng/ml	1077.6
Fluoranthene	12.499	202.0	1984	1179.75	ND ng/ml	37.9
LSS-D10-Pyrene	12.949	212.0	97906	61294.18	ND ng/ml	18.1
Pyrene	12.982	202.0	1850	1037.52	ND ng/ml	15.3
Benz(a)anthracene	15.768	228.0	115	85.45	ND ng/ml	61.4
IS-D12-Chrysene	15.811	240.0	78148	42376.72	ND ng/ml	18.6
Chrysene	15.865	228.0	834	387.97	ND ng/ml	33.3
Benzo(b)fluoranthene	18.089	252.0	104	47.33	ND ng/ml	
Benzo(k)fluoranthene	18.146	252.0	150	48.32	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	75298	40304.49	ND ng/ml	26.5
Benzo(e)pyrene	18.573	252.0	348	180.47	ND ng/ml	31.5
Benzo(a)pyrene	18.708	252.0	58	23.70	ND ng/ml	
IS-D12-Perylene	18.844	264.0	76689	40371.89	ND ng/ml	25.0
Perylene	18.836	252.0	303	156.84	ND ng/ml	31.3
Indeno(1,2,3-c,d)pyrene	20.728	276.0	62	24.49	ND ng/ml	
Dibenz(a,h)anthracene	20.805	278.0	54	22.80	ND ng/ml	310.8
Benzo(g,h,i)perylene	21.148	276.0	43	18.73	ND ng/ml	503.2
Coronene	23.409	300.0	43	17.83	ND ng/ml	

IS-D8-Naphthalene

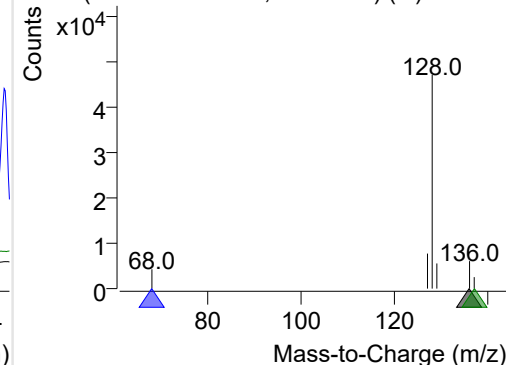
+ Selected Ion (136.0) 221107-PAHs-020.D



136.0, 68.0, 137.0

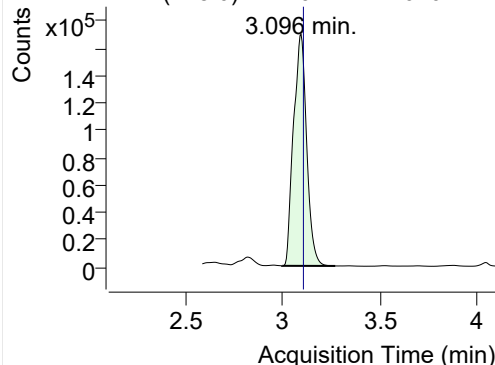


+ SIM (2.961-3.242 min, 53 scans) (**) 221107

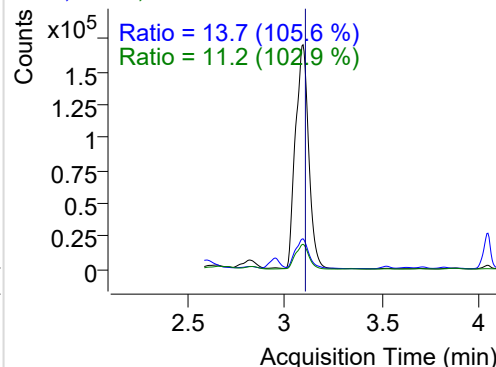


Naphthalene

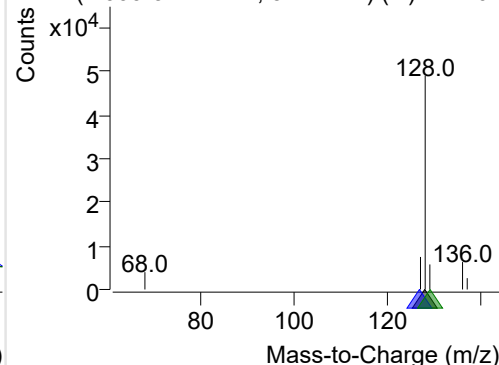
+ Selected Ion (128.0) 221107-PAHs-020.D



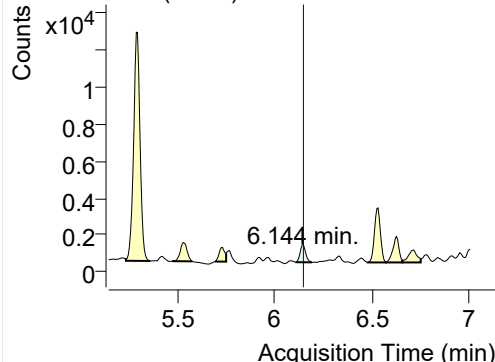
128.0, 127.0, 129.0



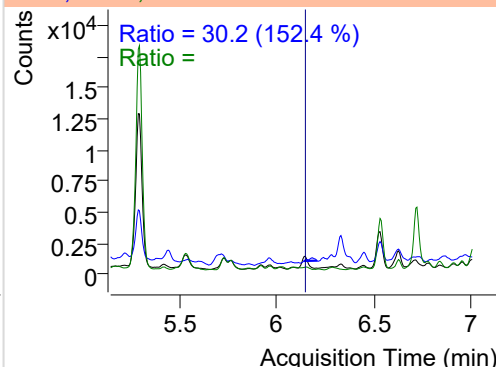
+ SIM (2.999-3.272 min, 51 scans) (**) 221107

**Acenaphthylene**

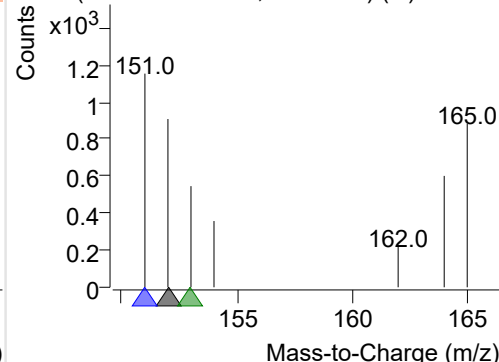
+ Selected Ion (152.0) 221107-PAHs-020.D



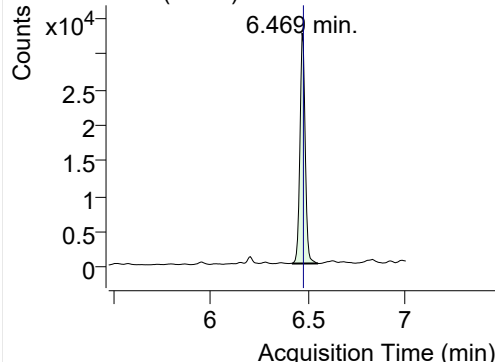
152.0, 151.0, 153.0



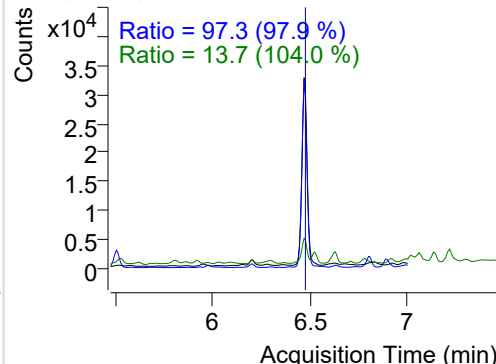
+ SIM (6.108-6.189 min, 14 scans) (**) 221107

**IS-D10-Acenaphthene**

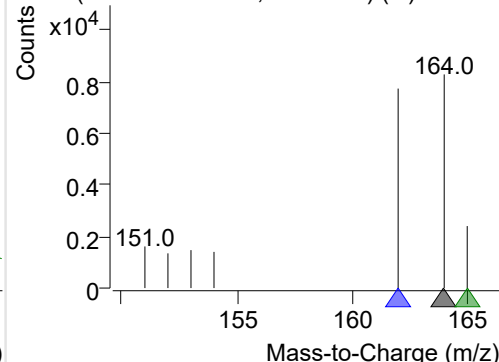
+ Selected Ion (164.0) 221107-PAHs-020.D



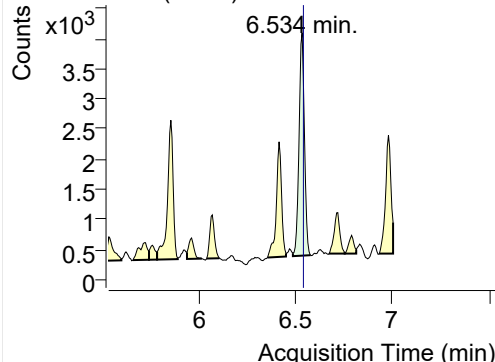
164.0, 162.0, 165.0



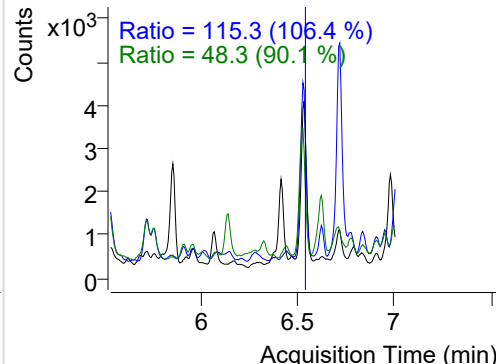
+ SIM (6.422-6.551 min, 22 scans) (**) 221107

**Acenaphthene**

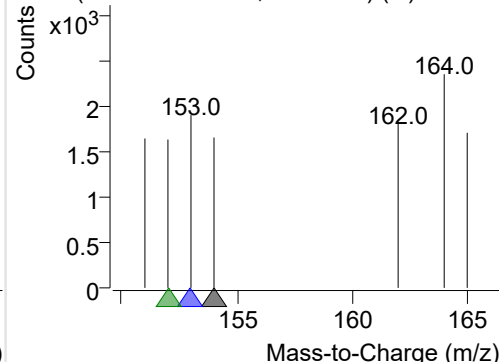
+ Selected Ion (154.0) 221107-PAHs-020.D



154.0, 153.0, 152.0

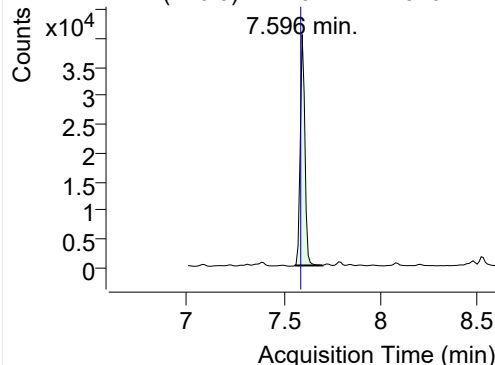


+ SIM (6.487-6.578 min, 16 scans) (**) 221107

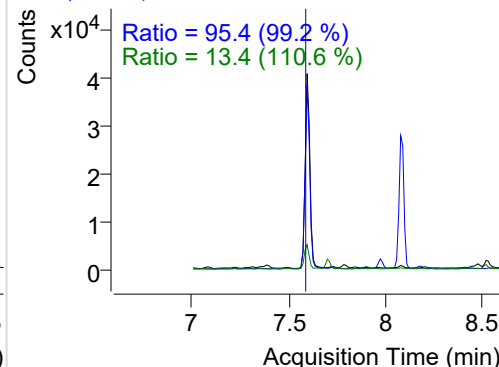


LSS-D10-Fluorene

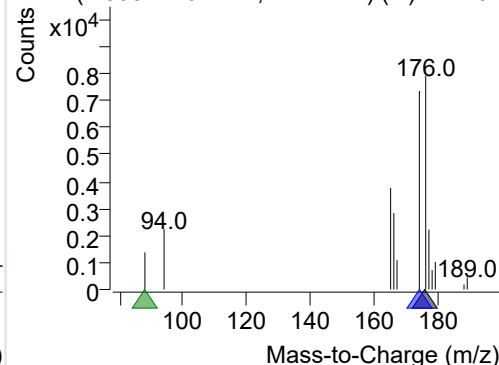
+ Selected Ion (176.0) 221107-PAHs-020.D



176.0, 174.0, 88.0

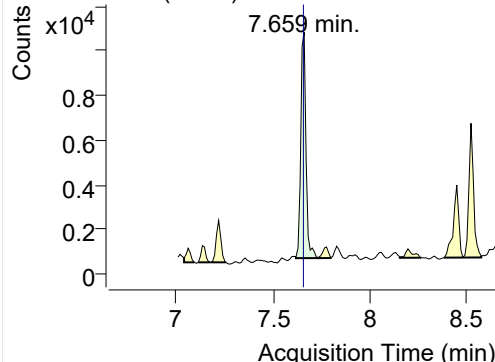


+ SIM (7.558-7.701 min, 14 scans) (**) 221107

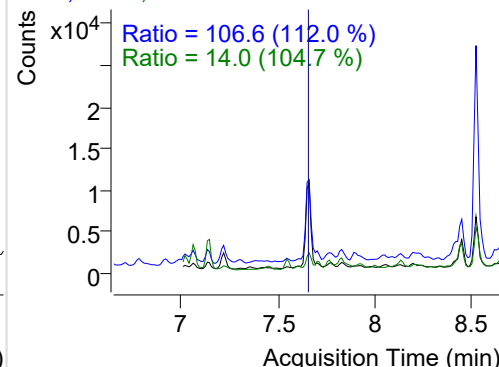


Fluorene

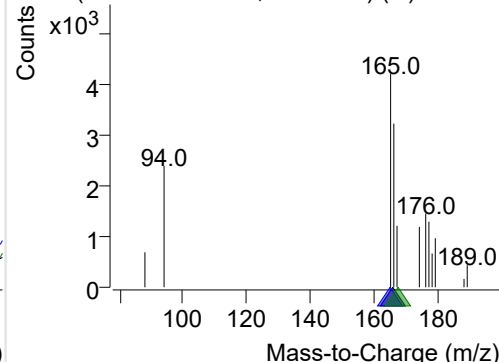
+ Selected Ion (166.0) 221107-PAHs-020.D



166.0, 165.0, 167.0

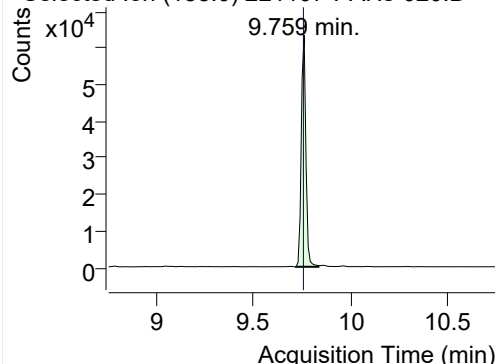


+ SIM (7.617-7.732 min, 12 scans) (**) 221107

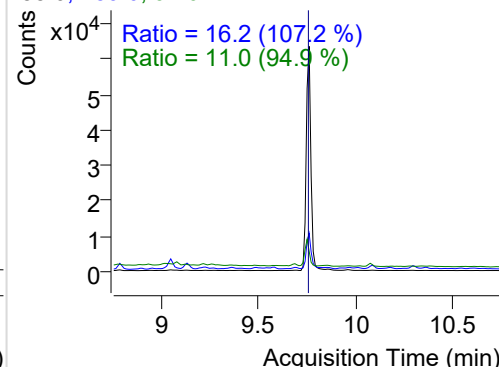


IS-D10-Phenanthrene

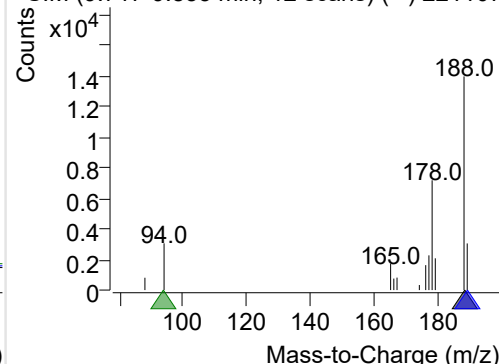
+ Selected Ion (188.0) 221107-PAHs-020.D



188.0, 189.0, 94.0

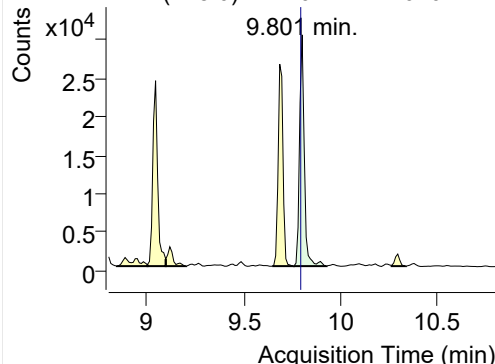


+ SIM (9.717-9.833 min, 12 scans) (**) 221107

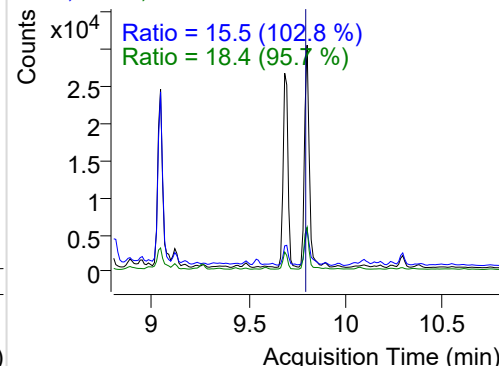


Phenanthrene

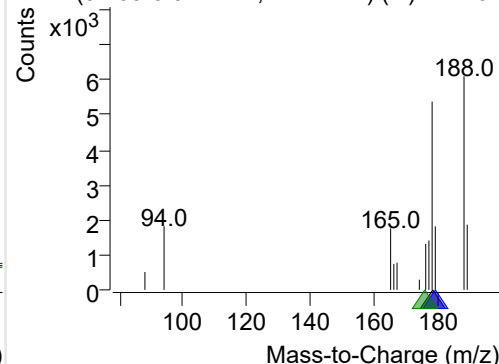
+ Selected Ion (178.0) 221107-PAHs-020.D



178.0, 179.0, 176.0

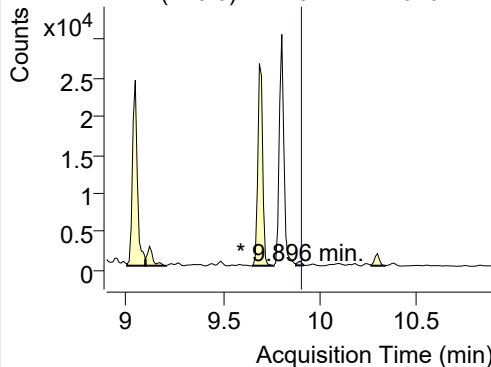


+ SIM (9.759-9.927 min, 17 scans) (**) 221107

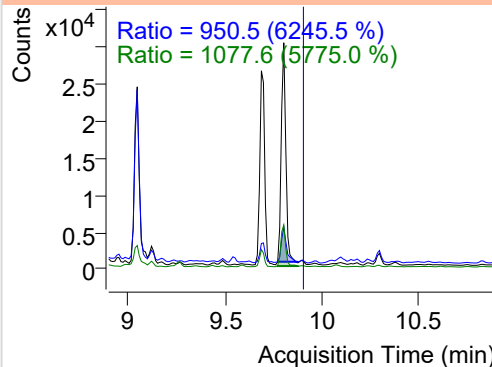


Anthracene

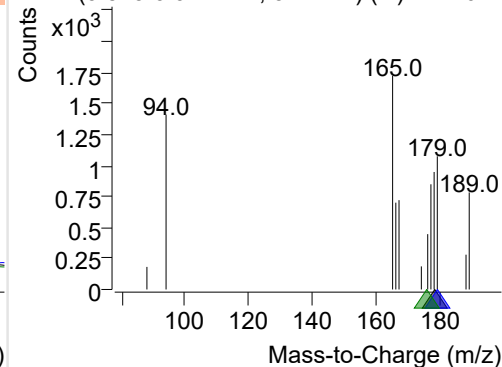
+ Selected Ion (178.0) 221107-PAHs-020.D



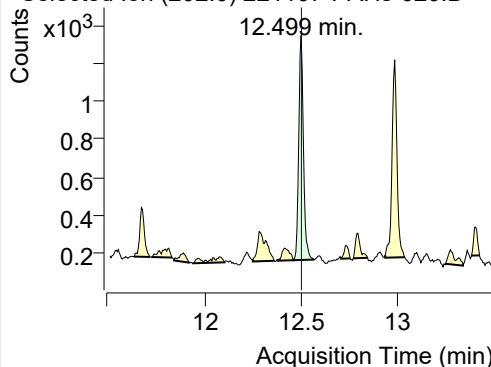
178.0, 179.0, 176.0



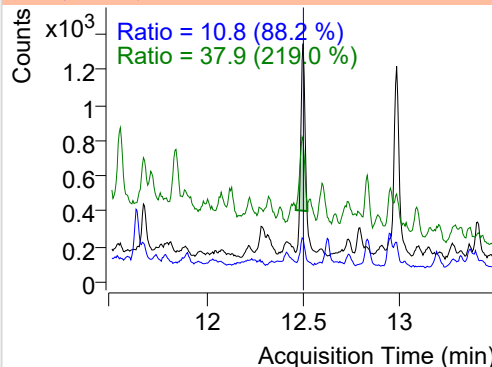
+ SIM (9.875-9.917 min, 5 scans) (**) 221107-I

**Fluoranthene**

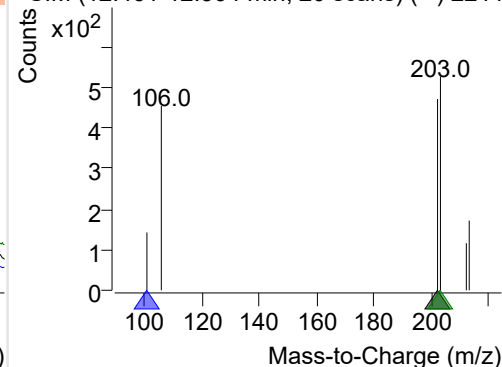
+ Selected Ion (202.0) 221107-PAHs-020.D



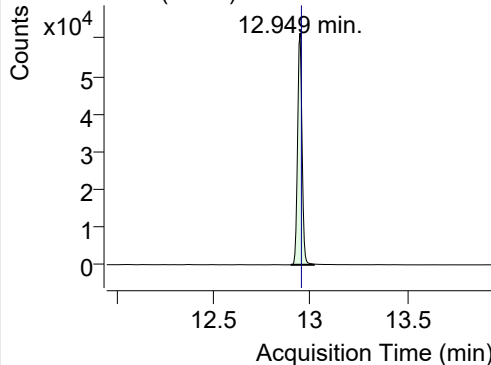
202.0, 101.0, 203.0



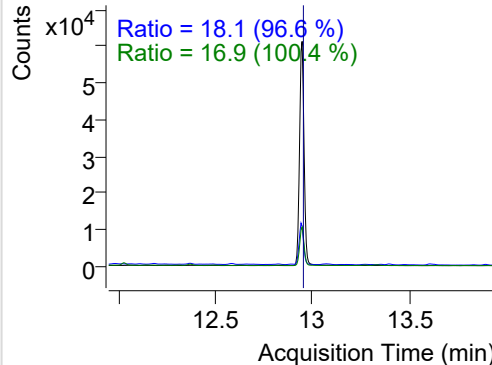
+ SIM (12.461-12.564 min, 20 scans) (**) 2211

**LSS-D10-Pyrene**

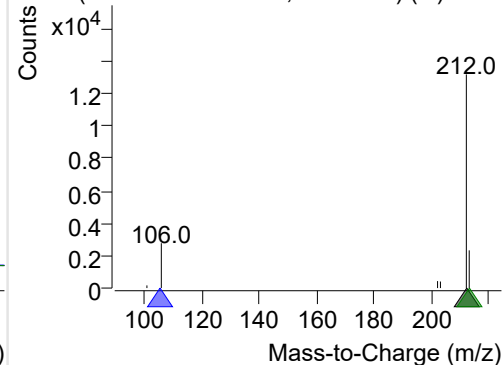
+ Selected Ion (212.0) 221107-PAHs-020.D



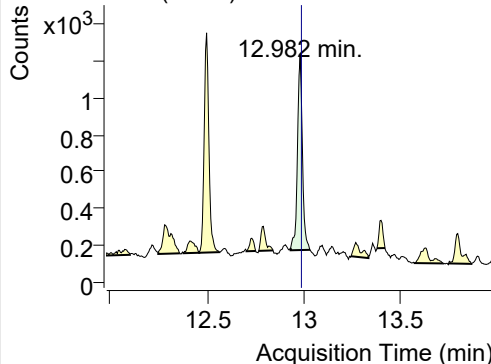
212.0, 106.0, 213.0



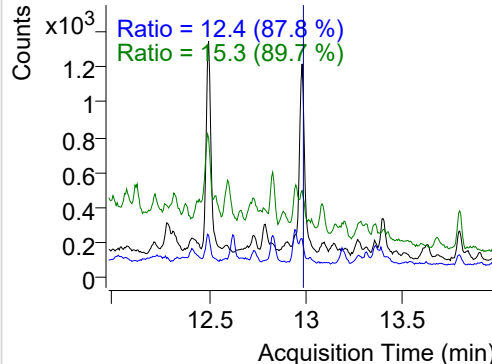
+ SIM (12.900-13.020 min, 23 scans) (**) 2211

**Pyrene**

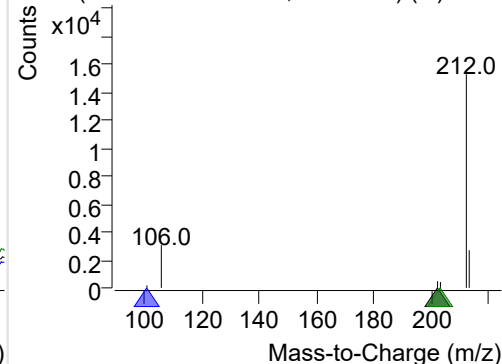
+ Selected Ion (202.0) 221107-PAHs-020.D



202.0, 101.0, 203.0



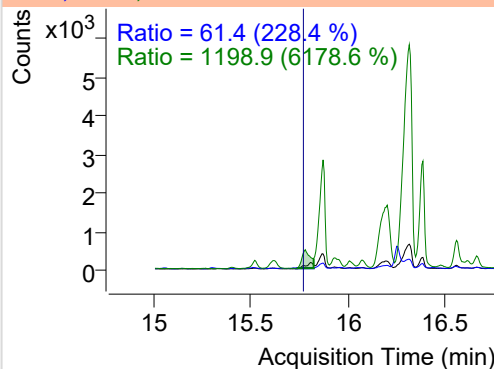
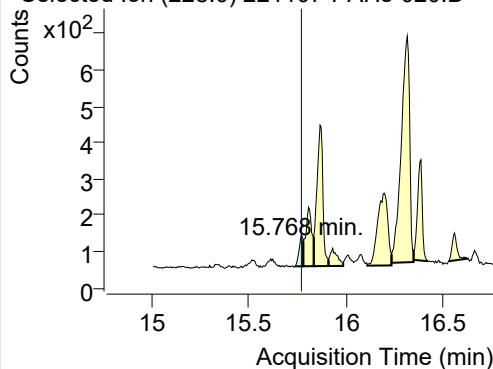
+ SIM (12.933-13.033 min, 19 scans) (**) 2211



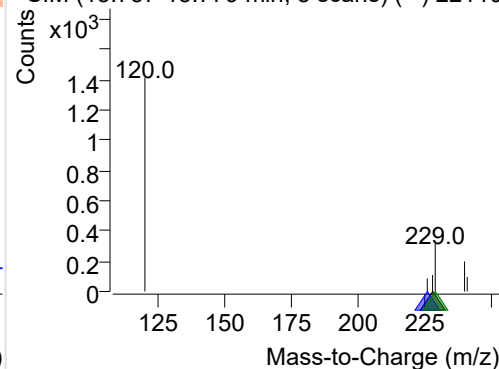
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-020.D

228.0, 226.0, 229.0

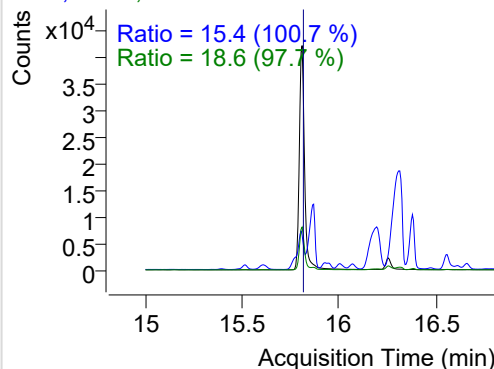
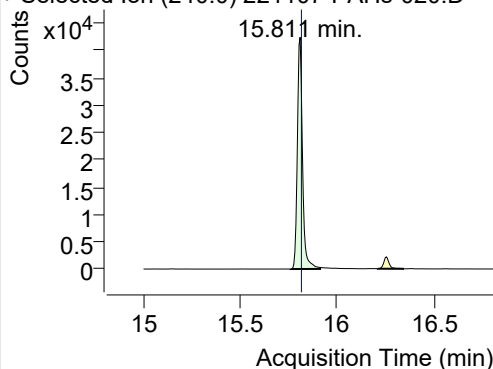


+ SIM (15.737-15.779 min, 8 scans) (**) 22110

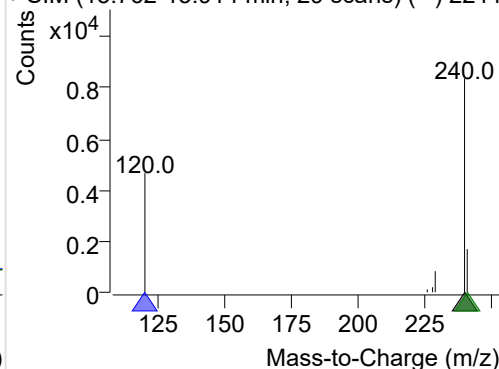
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-020.D

240.0, 120.0, 241.0

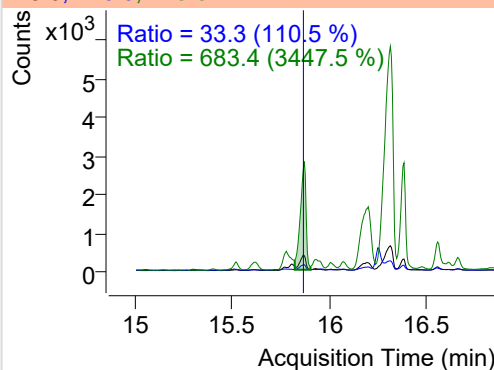
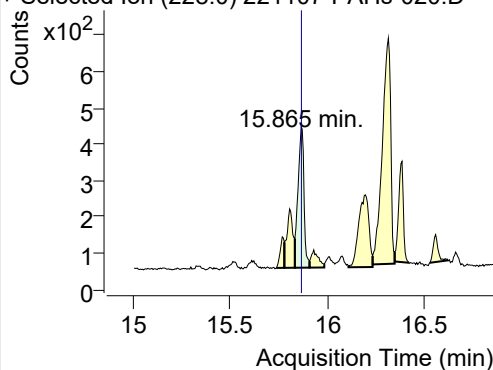


+ SIM (15.762-15.914 min, 29 scans) (**) 2211

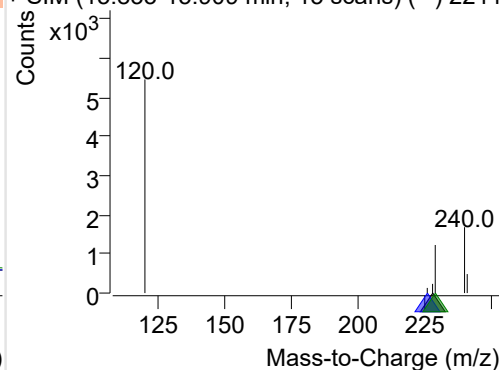
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-020.D

228.0, 226.0, 229.0

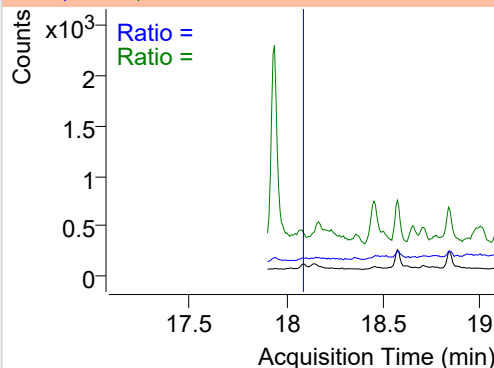
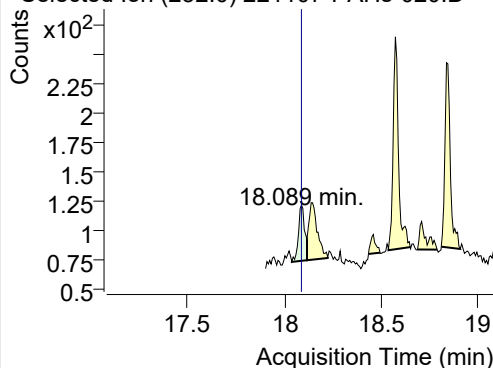


+ SIM (15.833-15.909 min, 15 scans) (**) 2211

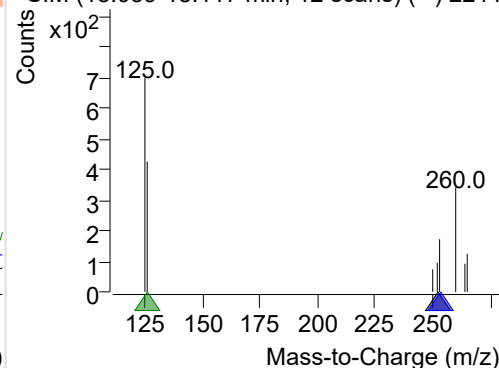
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-020.D

252.0, 253.0, 126.0



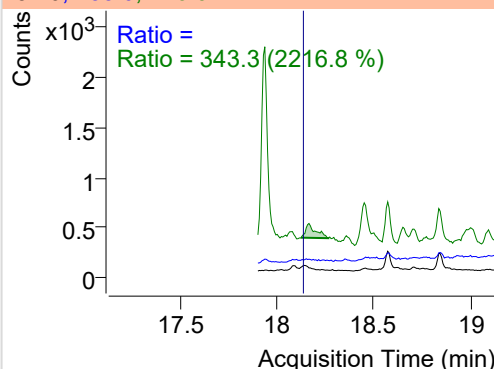
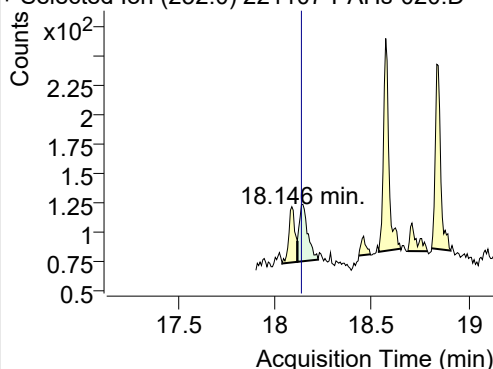
+ SIM (18.039-18.117 min, 12 scans) (**) 2211



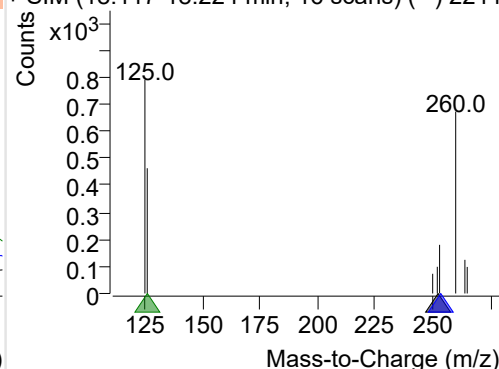
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-020.D

252.0, 253.0, 126.0

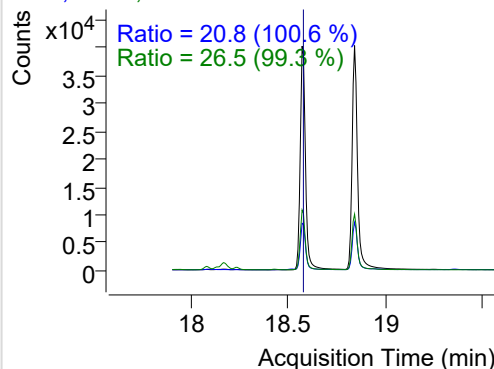
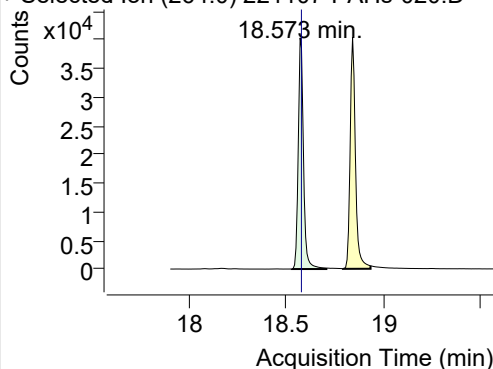


+ SIM (18.117-18.224 min, 16 scans) (**) 2211

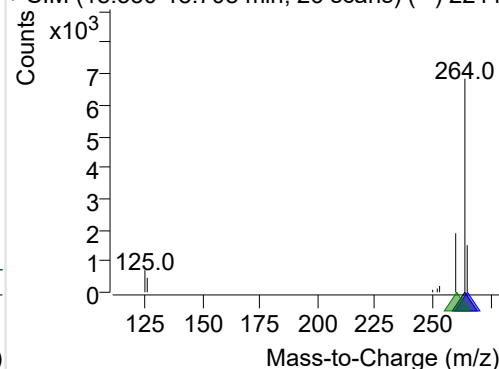
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-020.D

264.0, 265.0, 260.0

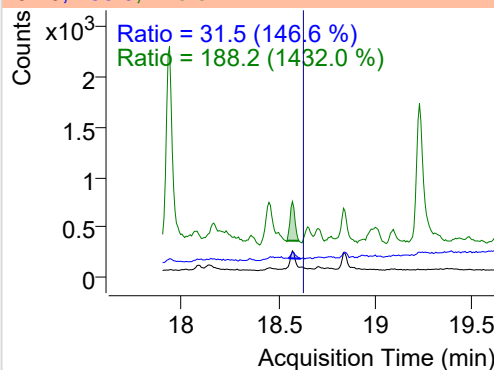
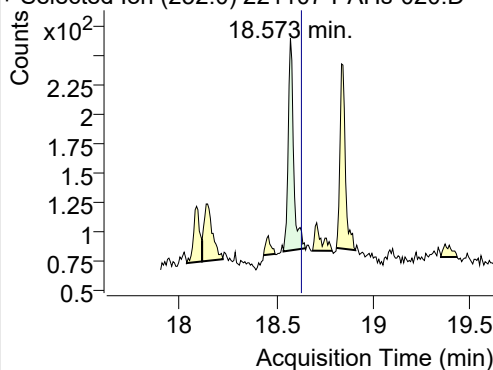


+ SIM (18.530-18.708 min, 26 scans) (**) 2211

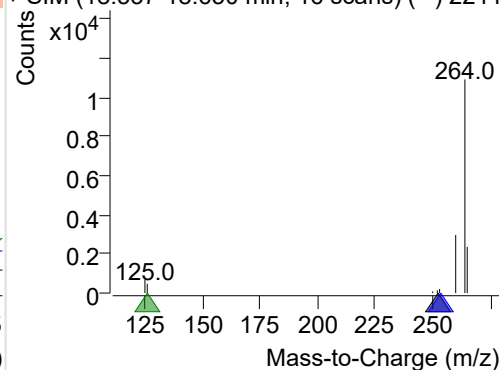
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-020.D

252.0, 253.0, 126.0

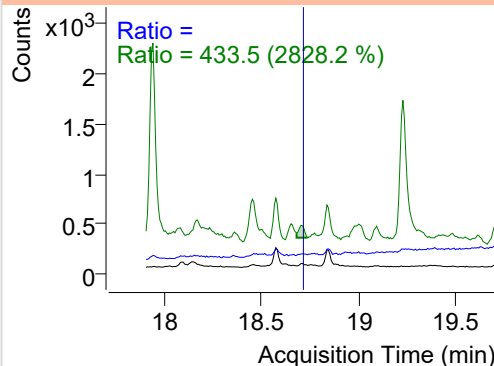
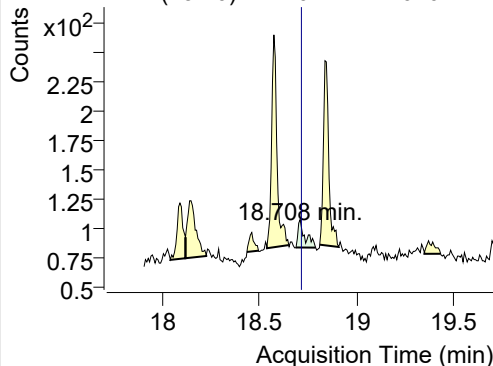


+ SIM (18.537-18.650 min, 16 scans) (**) 2211

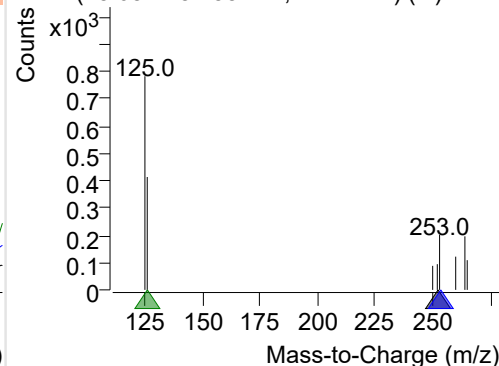
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-020.D

252.0, 253.0, 126.0

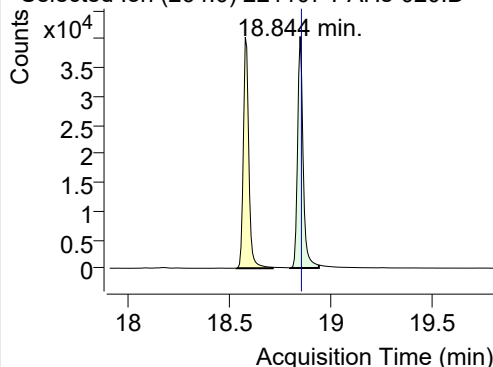


+ SIM (18.687-18.788 min, 14 scans) (**) 2211

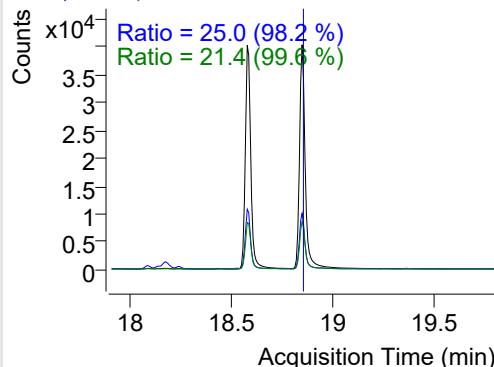


IS-D12-Perylene

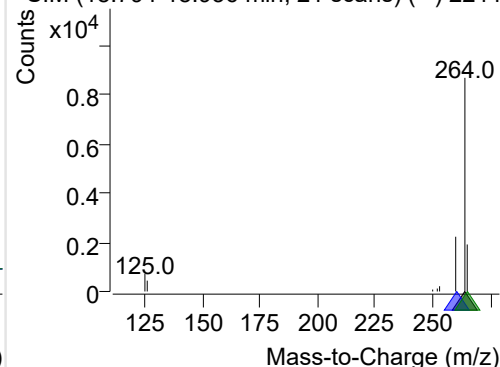
+ Selected Ion (264.0) 221107-PAHs-020.D



264.0, 260.0, 265.0

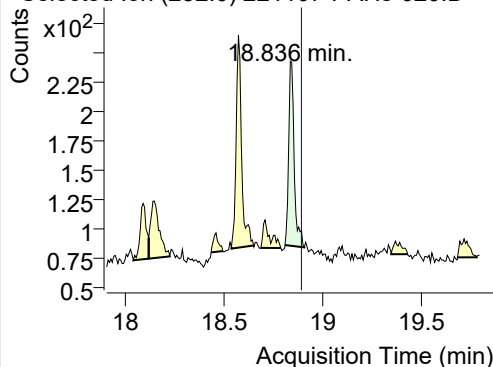


+ SIM (18.794-18.936 min, 21 scans) (**) 2211

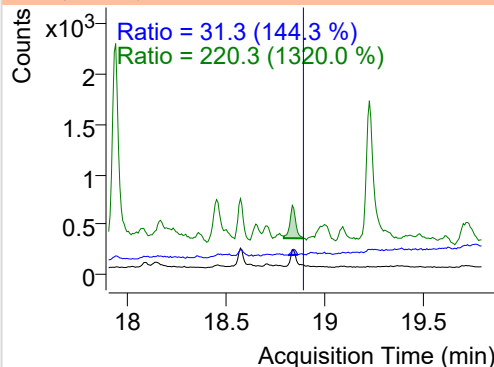


Perylene

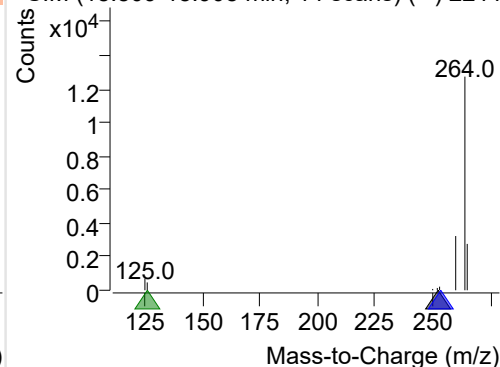
+ Selected Ion (252.0) 221107-PAHs-020.D



252.0, 253.0, 126.0

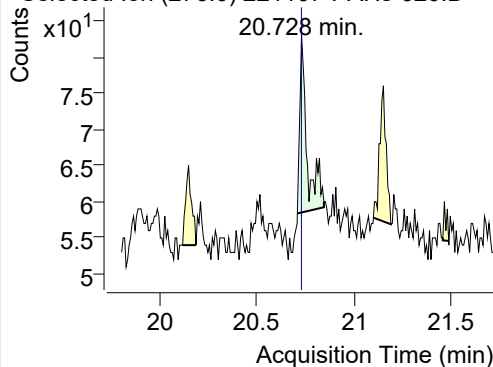


+ SIM (18.809-18.908 min, 14 scans) (**) 2211

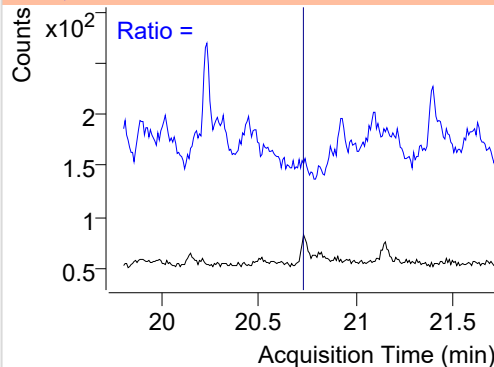


Indeno(1,2,3-c,d)pyrene

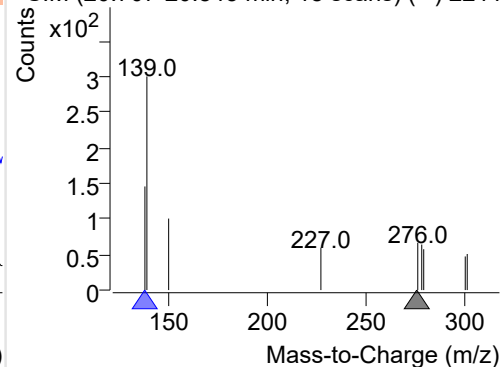
+ Selected Ion (276.0) 221107-PAHs-020.D



276.0, 138.0

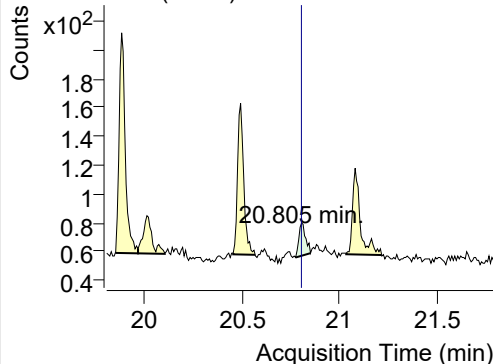


+ SIM (20.707-20.843 min, 18 scans) (**) 2211

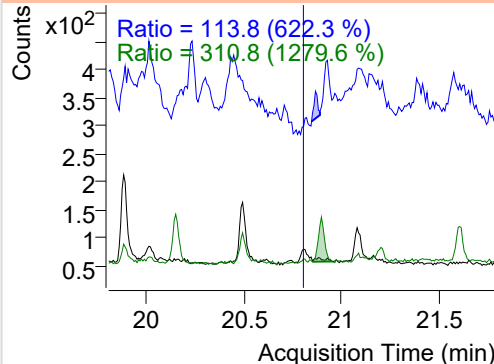


Dibenz(a,h)anthracene

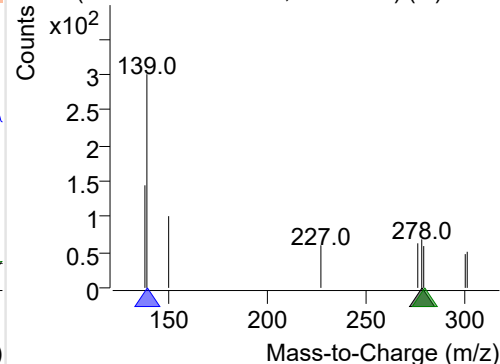
+ Selected Ion (278.0) 221107-PAHs-020.D



278.0, 139.0, 279.0



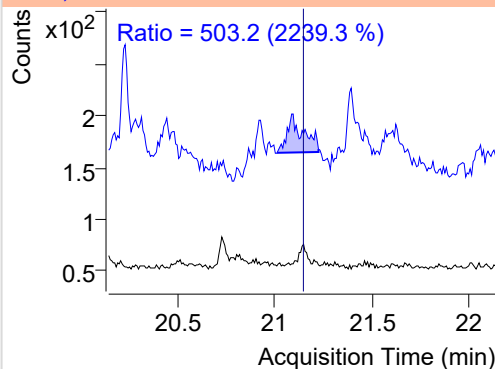
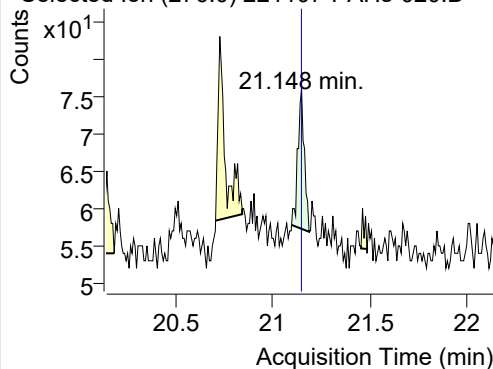
+ SIM (20.774-20.851 min, 11 scans) (**) 2211



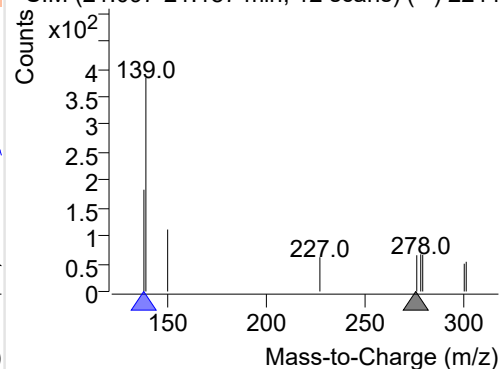
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-020.D

276.0, 138.0

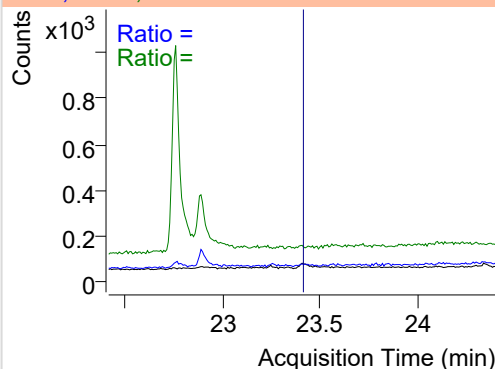
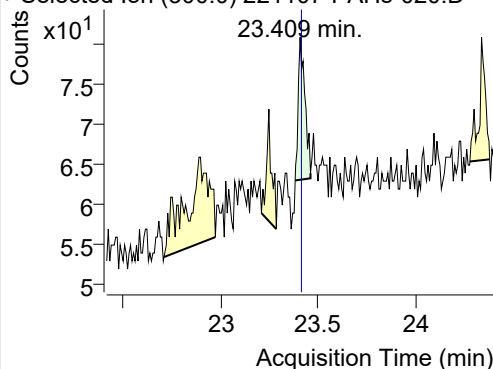


+ SIM (21.097-21.187 min, 12 scans) (**) 2211

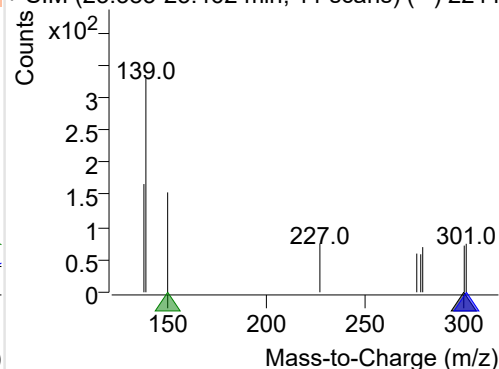
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-020.D

300.0, 301.0, 150.0



+ SIM (23.383-23.462 min, 11 scans) (**) 2211



Quantitative Analysis Sample Based Report

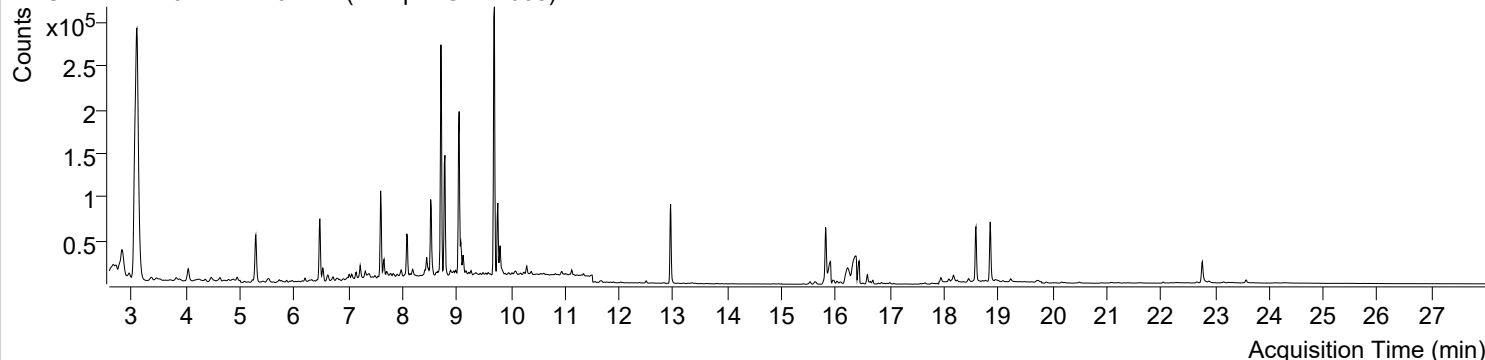


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 2:23:16	Data File	221107-PAHs-021.D
Type	Sample	Name	Sample-Gas-1008
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

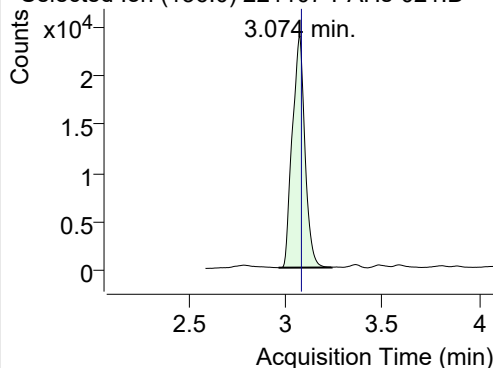
+ TIC SIM 221107-PAHs-021.D (Sample-Gas-1008)



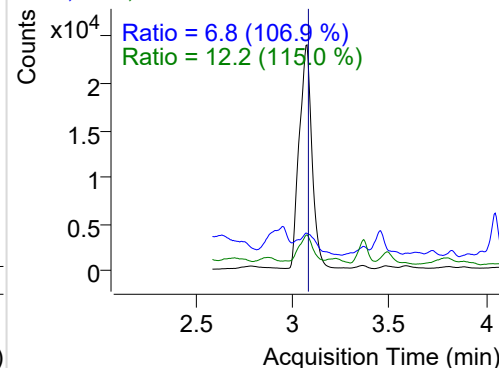
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	108021	23866.14	ND ng/ml	12.2
Naphthalene	3.096	128.0	989935	217760.60	ND ng/ml	13.6
Acenaphthylene	6.143	152.0	1337	596.40	ND ng/ml	89.6
IS-D10-Acenaphthene	6.475	164.0	63605	33848.51	ND ng/ml	97.7
Acenaphthene	6.534	154.0	6983	3850.90	ND ng/ml	123.7
LSS-D10-Fluorene	7.596	176.0	72433	42510.36	ND ng/ml	94.3
Fluorene	7.659	166.0	15955	8953.18	ND ng/ml	99.2
IS-D10-Phenanthrene	9.759	188.0	107621	66040.82	ND ng/ml	15.7
Phenanthrene	9.801	178.0	35920	20662.55	ND ng/ml	18.3
Anthracene	9.895	178.0	1107	704.33	ND ng/ml	
Fluoranthene	12.499	202.0	2762	1717.78	ND ng/ml	39.5
LSS-D10-Pyrene	12.949	212.0	106975	67000.11	ND ng/ml	18.3
Pyrene	12.981	202.0	2840	1706.05	ND ng/ml	13.5
Benz(a)anthracene	15.811	228.0	664	225.47	ND ng/ml	
IS-D12-Chrysene	15.811	240.0	87783	44986.98	ND ng/ml	18.7
Chrysene	15.903	228.0	1965	625.55	ND ng/ml	29.4
Benzo(b)fluoranthene	18.096	252.0	188	89.51	ND ng/ml	64.9
Benzo(k)fluoranthene	18.160	252.0	293	94.13	ND ng/ml	77.8
SS-D12-Benzo(e)pyrene	18.587	264.0	80230	42291.67	ND ng/ml	26.1
Benzo(e)pyrene	18.587	252.0	746	204.61	ND ng/ml	21.2
Benzo(a)pyrene	18.758	252.0	315	86.60	ND ng/ml	31.6
IS-D12-Perylene	18.850	264.0	86985	46498.99	ND ng/ml	24.6
Perylene	18.850	252.0	591	218.05	ND ng/ml	11.3
Indeno(1,2,3-c,d)pyrene	20.728	276.0	182	61.08	ND ng/ml	42.0
Dibenz(a,h)anthracene	21.087	278.0	809	300.45	ND ng/ml	19.7
Benzo(g,h,i)perylene	21.141	276.0	124	39.48	ND ng/ml	254.9
Coronene	23.424	300.0	72	22.46	ND ng/ml	

IS-D8-Naphthalene

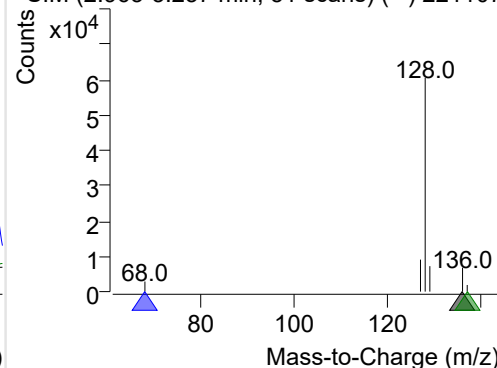
+ Selected Ion (136.0) 221107-PAHs-021.D



136.0, 68.0, 137.0

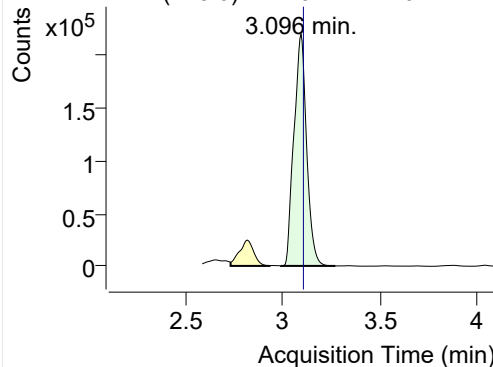


+ SIM (2.963-3.237 min, 51 scans) (**) 221107

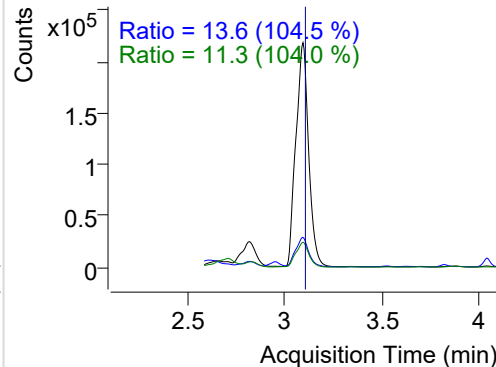


Naphthalene

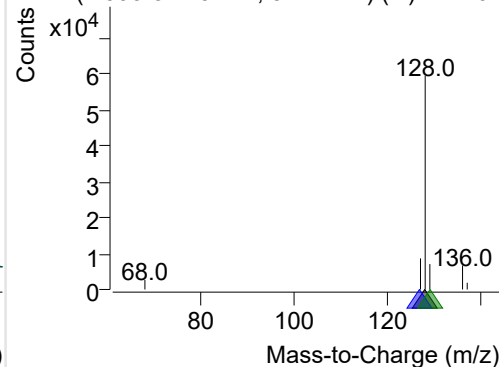
+ Selected Ion (128.0) 221107-PAHs-021.D



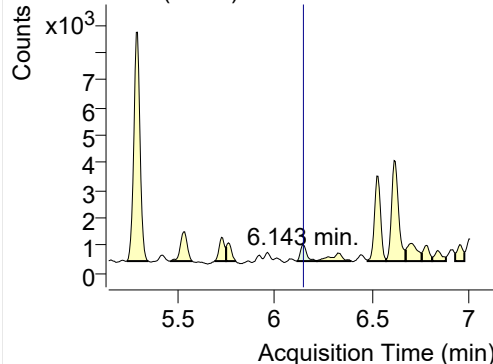
128.0, 127.0, 129.0



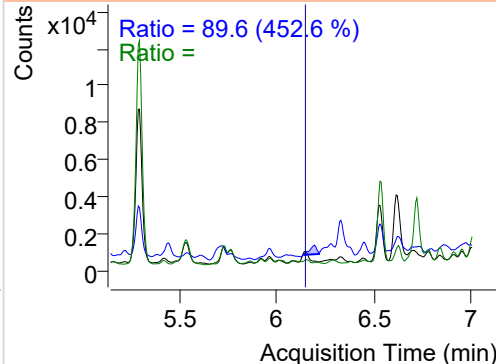
+ SIM (2.993-3.273 min, 52 scans) (**) 221107

**Acenaphthylene**

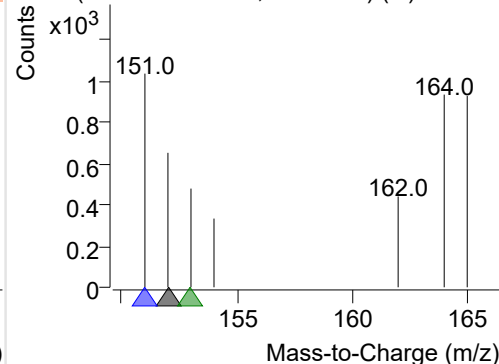
+ Selected Ion (152.0) 221107-PAHs-021.D



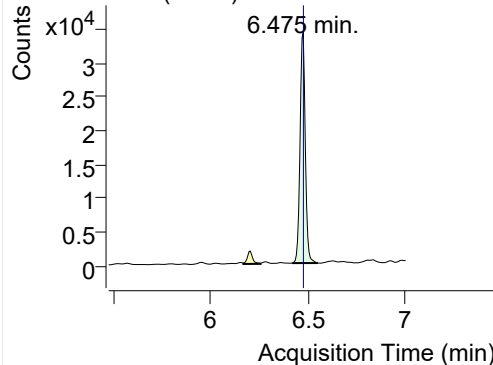
152.0, 151.0, 153.0



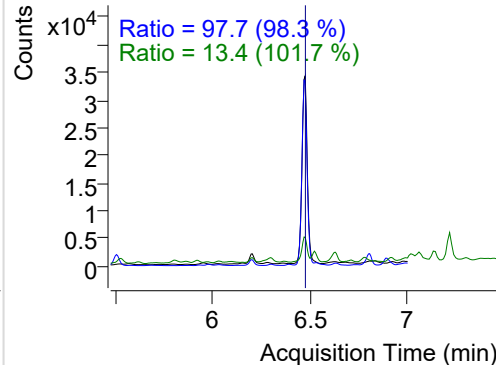
+ SIM (6.114-6.214 min, 18 scans) (**) 221107

**IS-D10-Acenaphthene**

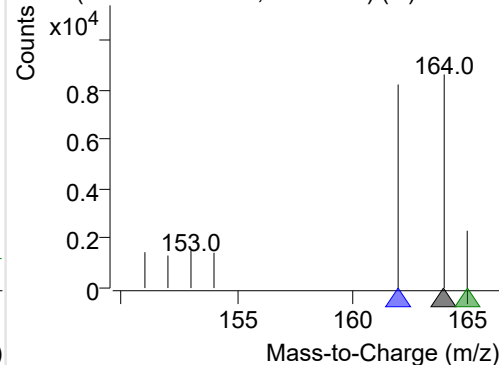
+ Selected Ion (164.0) 221107-PAHs-021.D



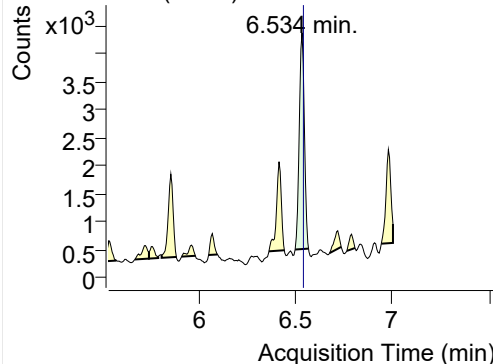
164.0, 162.0, 165.0



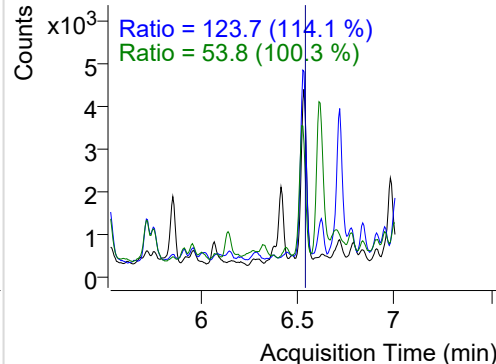
+ SIM (6.421-6.550 min, 22 scans) (**) 221107

**Acenaphthene**

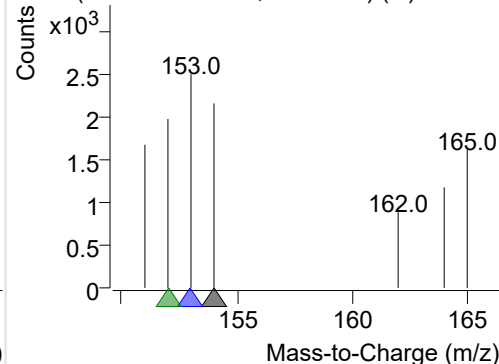
+ Selected Ion (154.0) 221107-PAHs-021.D



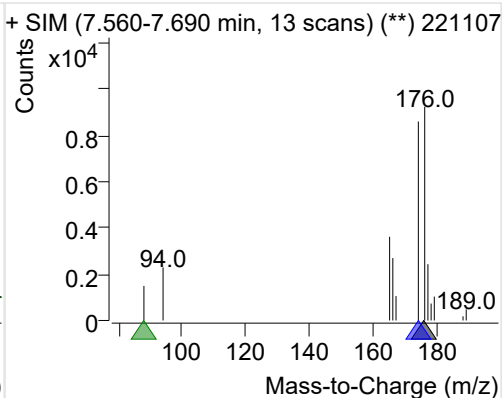
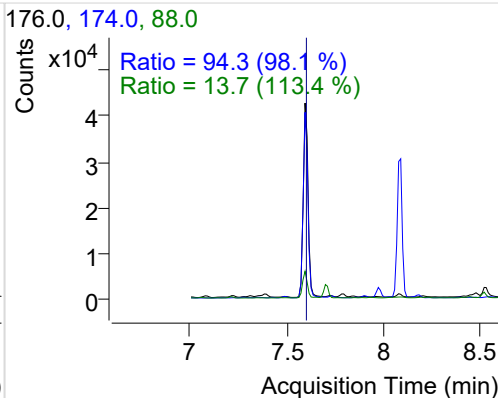
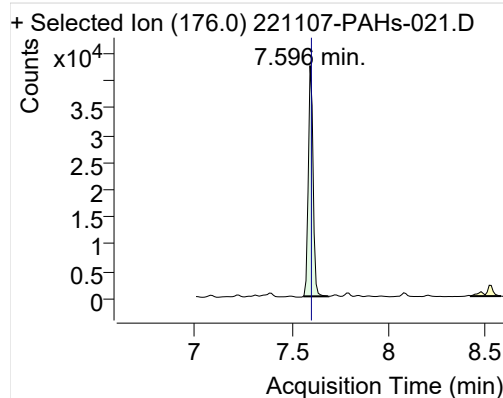
154.0, 153.0, 152.0



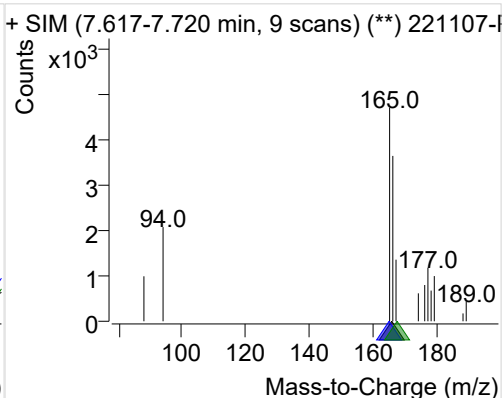
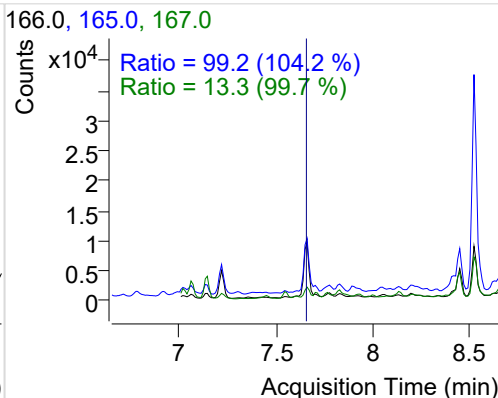
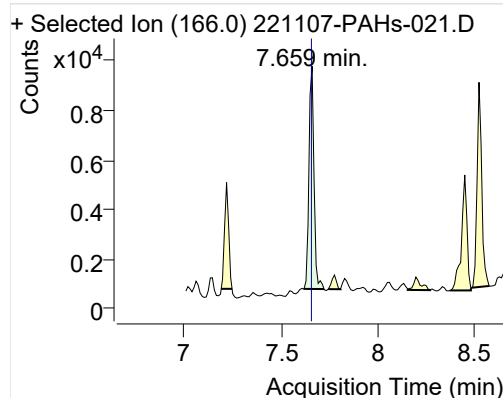
+ SIM (6.498-6.567 min, 12 scans) (**) 221107



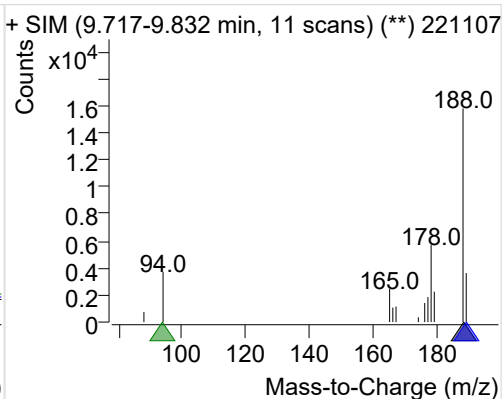
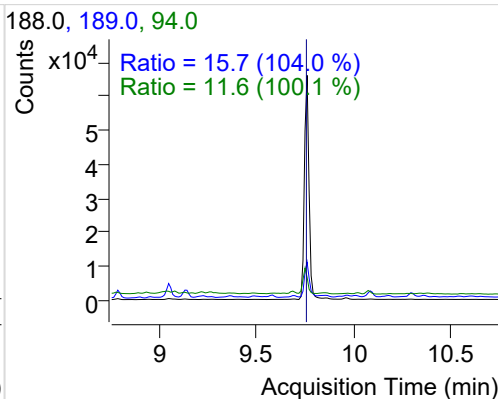
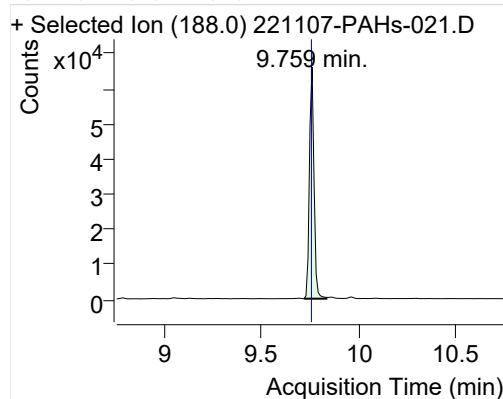
LSS-D10-Fluorene



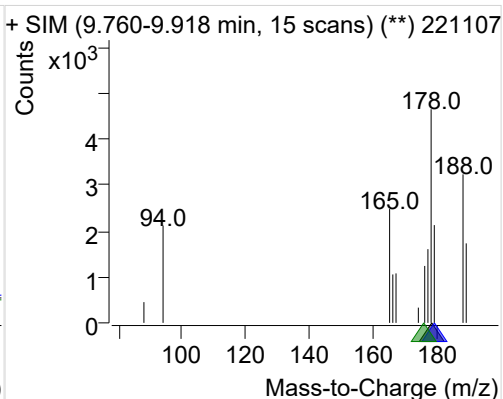
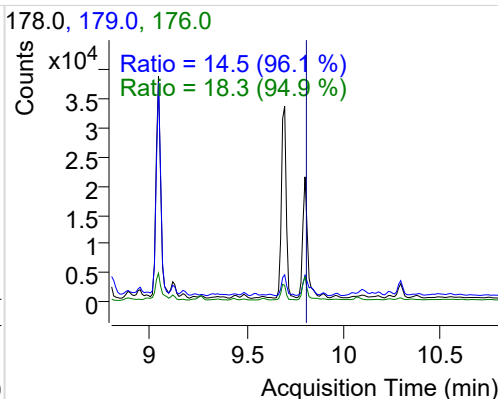
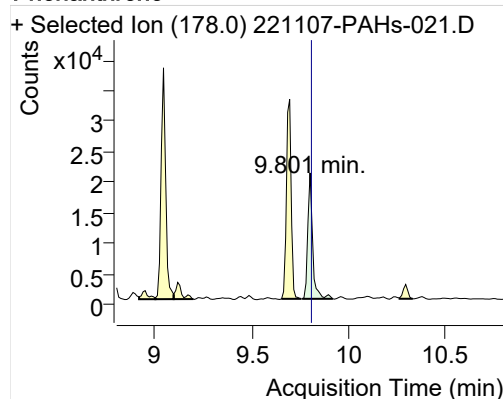
Fluorene



IS-D10-Phenanthrene

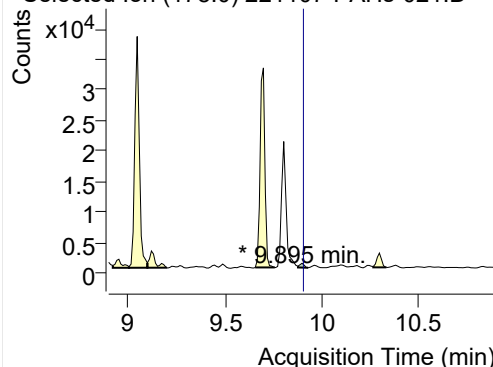


Phenanthrene

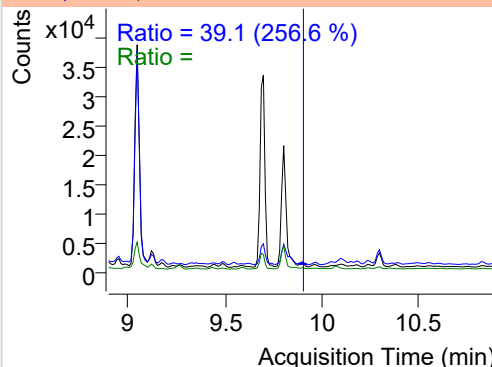


Anthracene

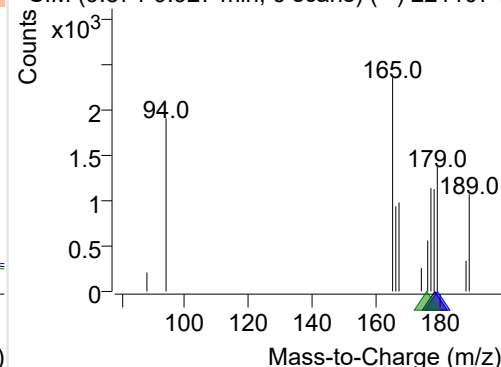
+ Selected Ion (178.0) 221107-PAHs-021.D



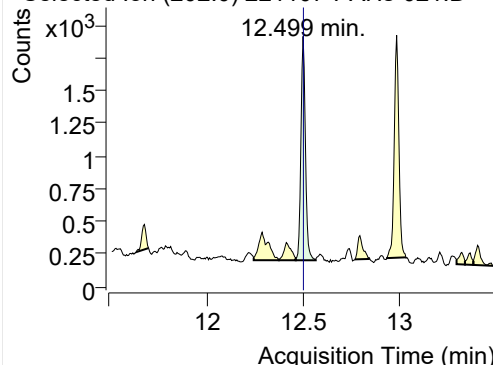
178.0, 179.0, 176.0



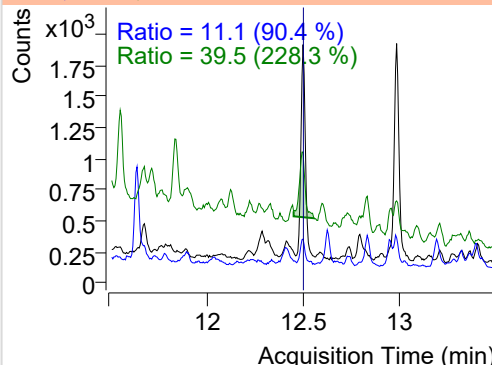
+ SIM (9.874-9.927 min, 6 scans) (**) 221107-I

**Fluoranthene**

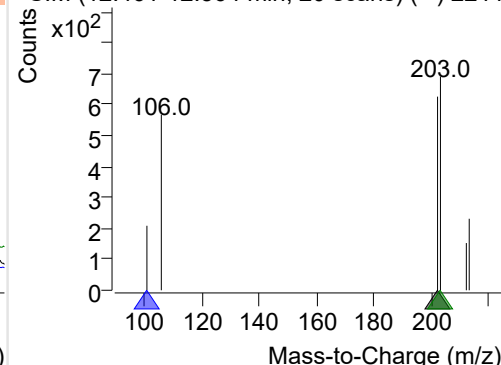
+ Selected Ion (202.0) 221107-PAHs-021.D



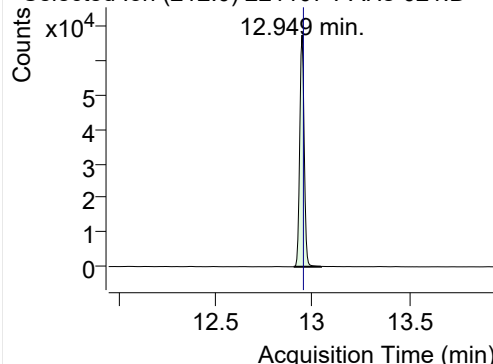
202.0, 101.0, 203.0



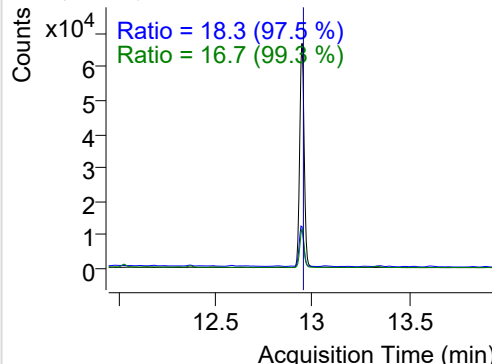
+ SIM (12.461-12.564 min, 20 scans) (**) 2211

**LSS-D10-Pyrene**

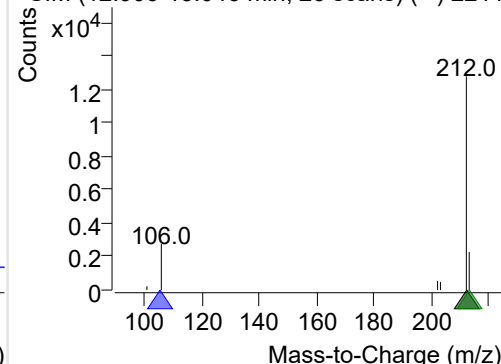
+ Selected Ion (212.0) 221107-PAHs-021.D



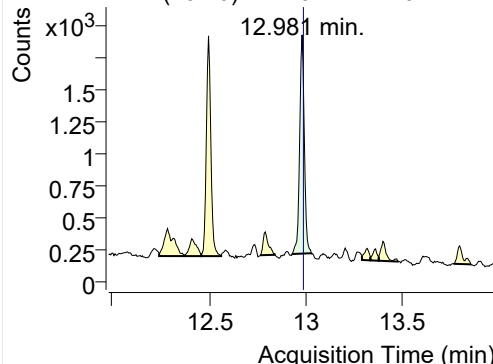
212.0, 106.0, 213.0



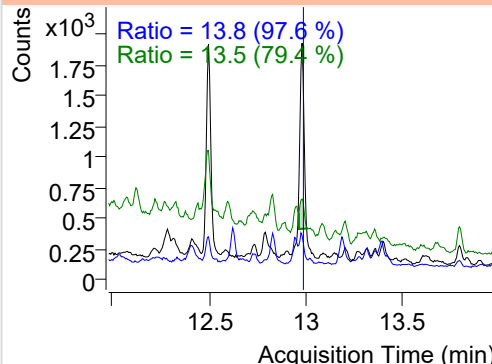
+ SIM (12.906-13.046 min, 26 scans) (**) 2211

**Pyrene**

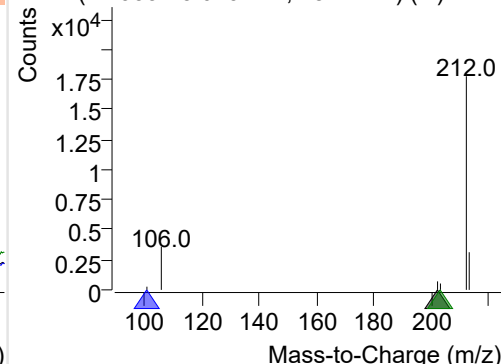
+ Selected Ion (202.0) 221107-PAHs-021.D



202.0, 101.0, 203.0



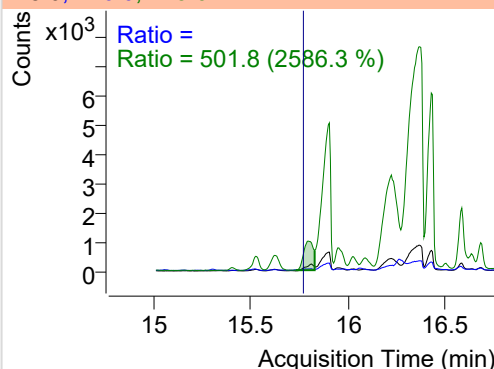
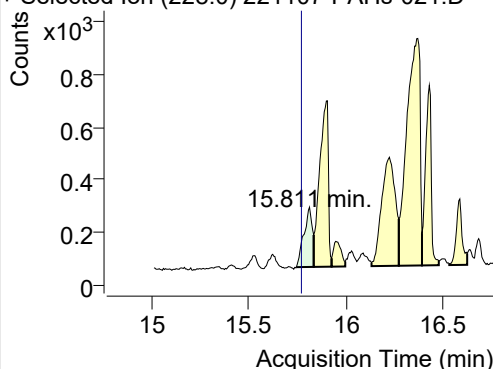
+ SIM (12.933-13.029 min, 18 scans) (**) 2211



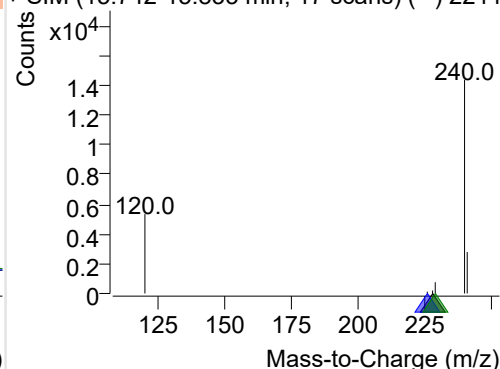
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-021.D

228.0, 226.0, 229.0

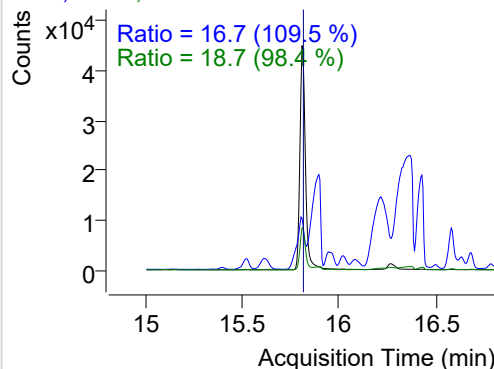
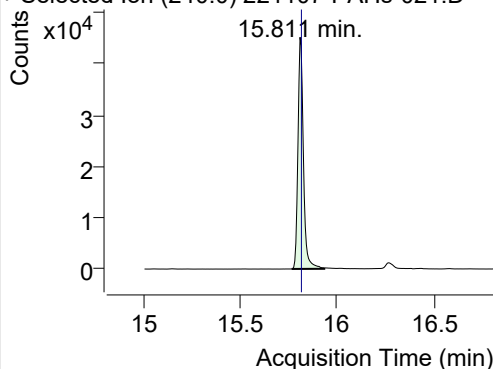


+ SIM (15.742-15.833 min, 17 scans) (**) 2211

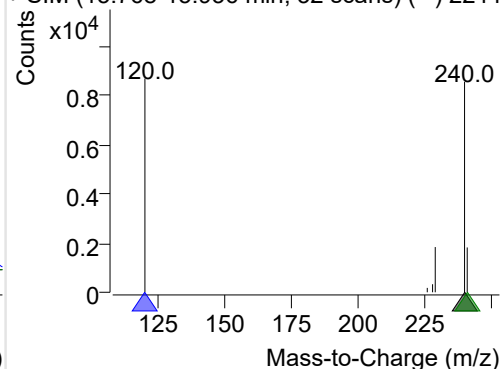
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-021.D

240.0, 120.0, 241.0

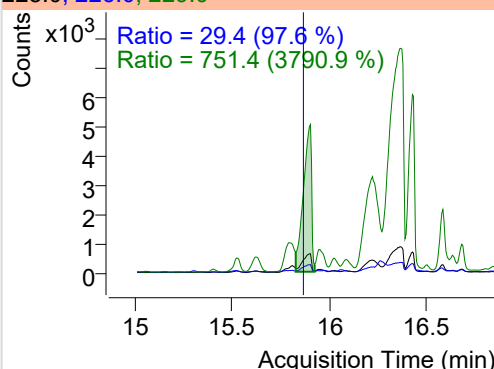
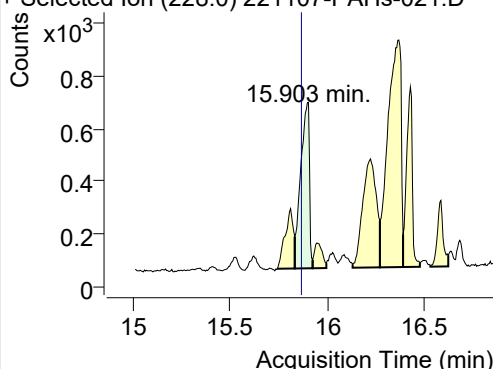


+ SIM (15.768-15.936 min, 32 scans) (**) 2211

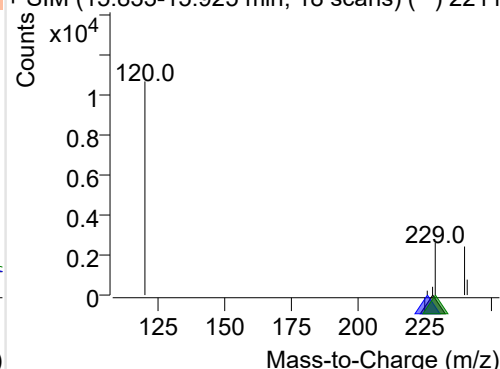
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-021.D

228.0, 226.0, 229.0

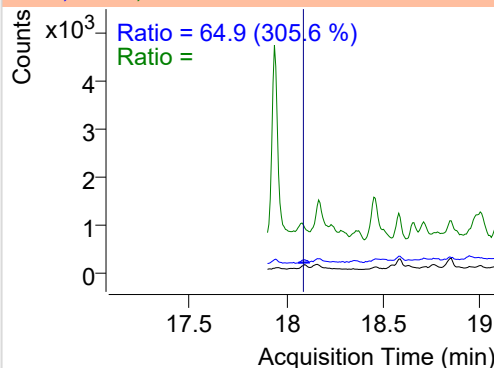
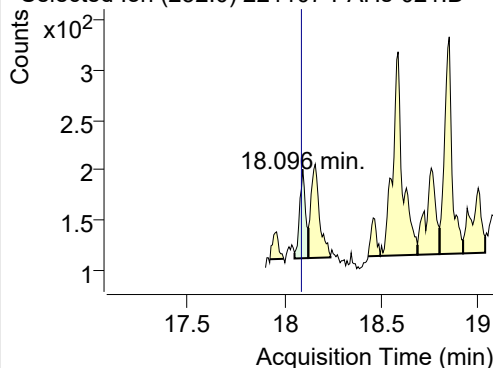


+ SIM (15.833-15.925 min, 18 scans) (**) 2211

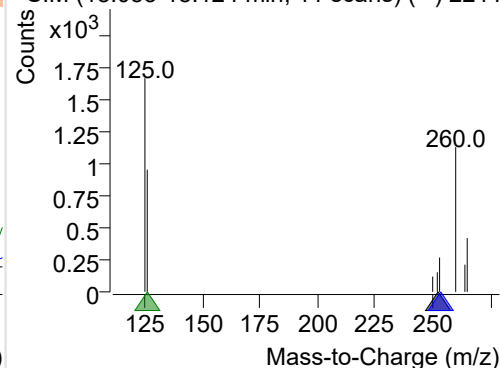
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-021.D

252.0, 253.0, 126.0



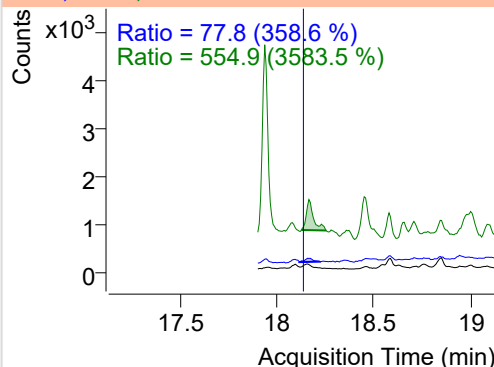
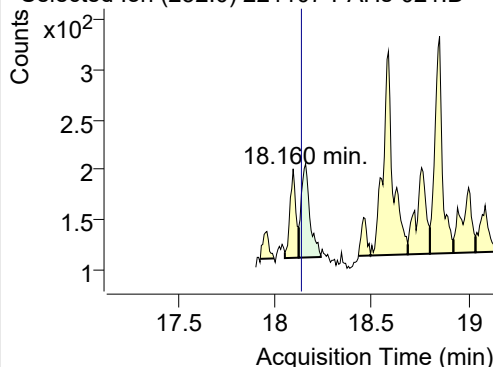
+ SIM (18.053-18.124 min, 11 scans) (**) 2211



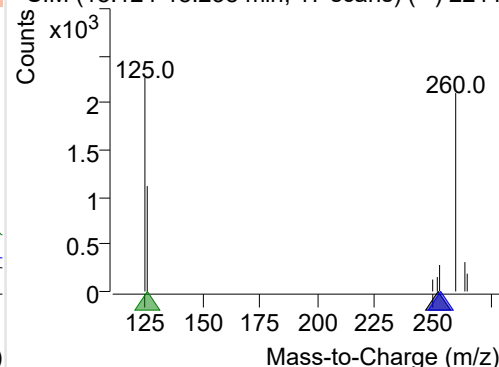
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-021.D

252.0, 253.0, 126.0

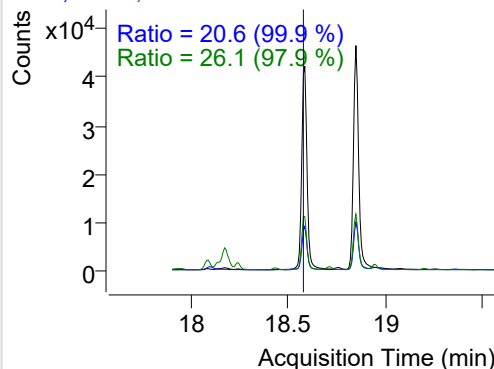
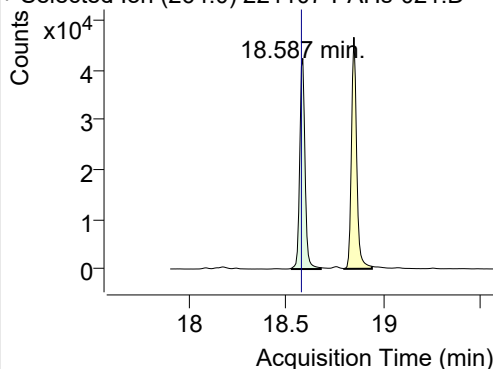


+ SIM (18.124-18.238 min, 17 scans) (**) 2211

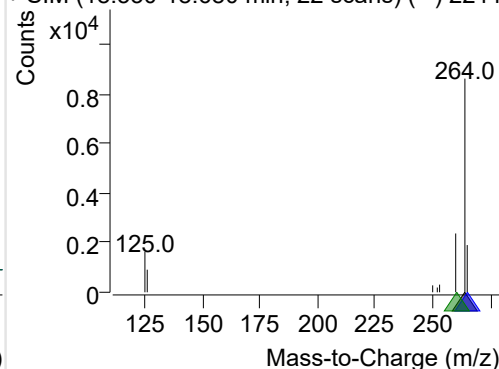
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-021.D

264.0, 265.0, 260.0

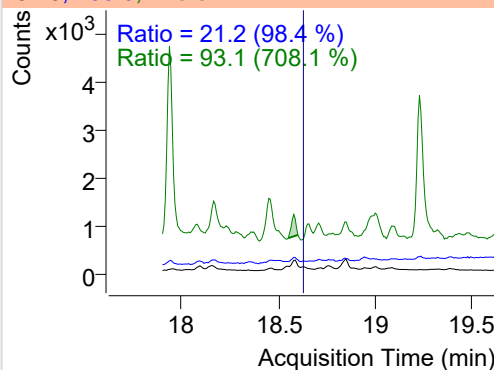
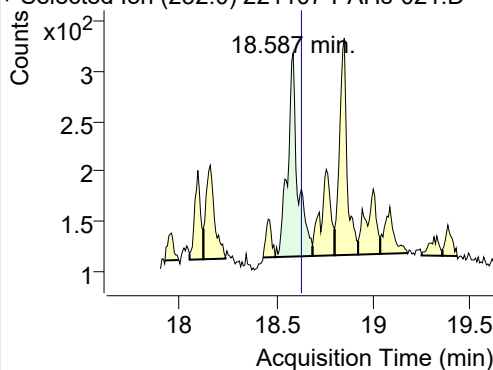


+ SIM (18.530-18.680 min, 22 scans) (**) 2211

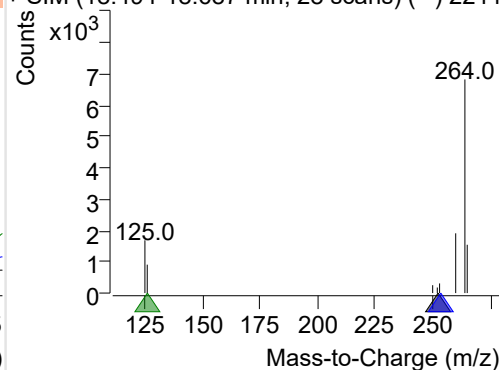
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-021.D

252.0, 253.0, 126.0

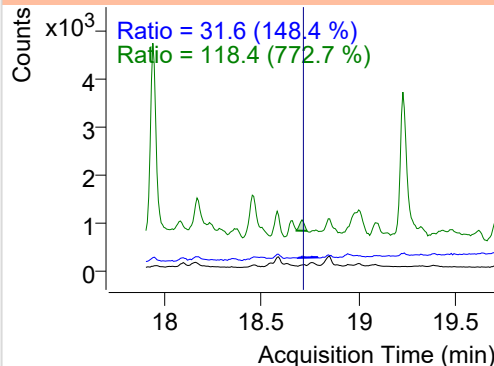
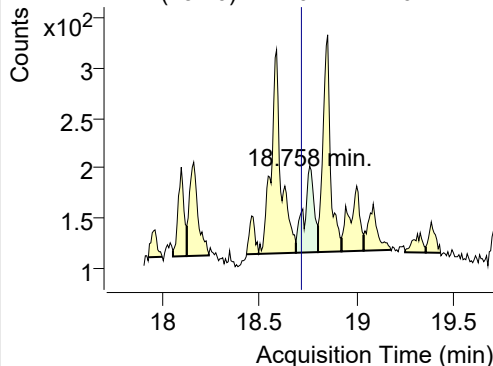


+ SIM (18.494-18.687 min, 28 scans) (**) 2211

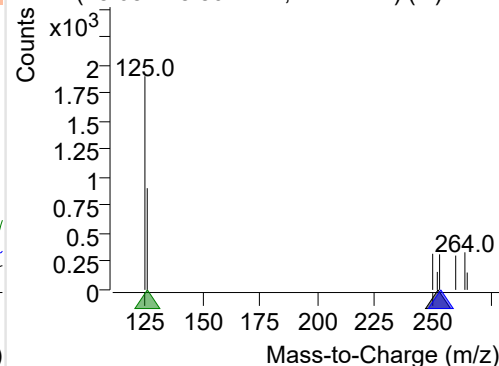
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-021.D

252.0, 253.0, 126.0

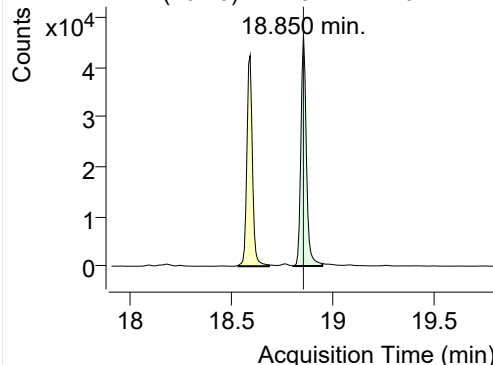


+ SIM (18.687-18.801 min, 17 scans) (**) 2211

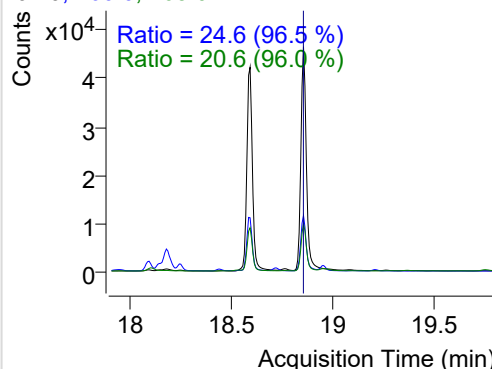


IS-D12-Perylene

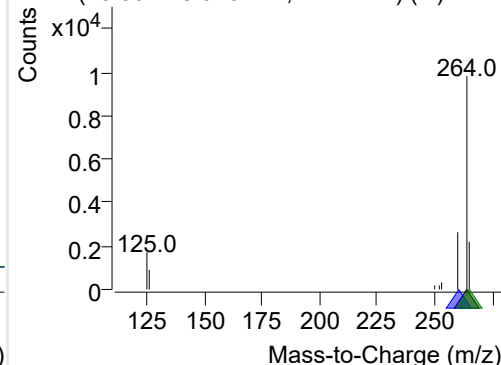
+ Selected Ion (264.0) 221107-PAHs-021.D



264.0, 260.0, 265.0

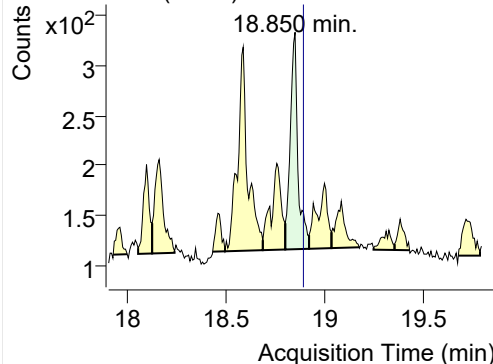


+ SIM (18.801-18.943 min, 21 scans) (**) 2211

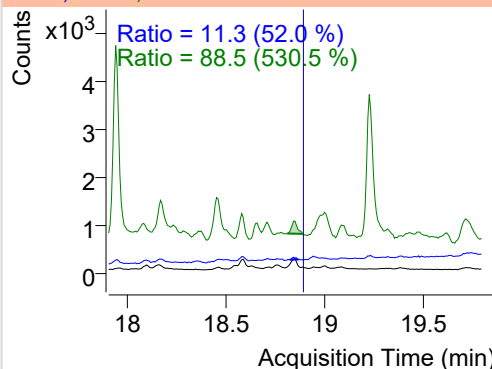


Perylene

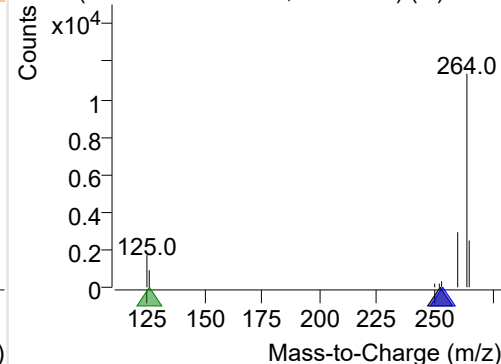
+ Selected Ion (252.0) 221107-PAHs-021.D



252.0, 253.0, 126.0

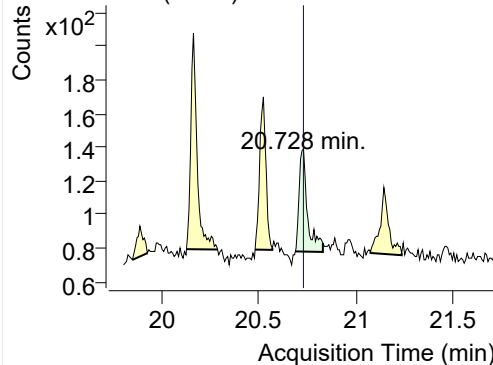


+ SIM (18.801-18.922 min, 18 scans) (**) 2211

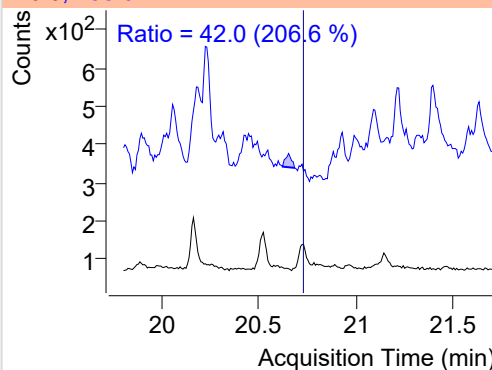


Indeno(1,2,3-c,d)pyrene

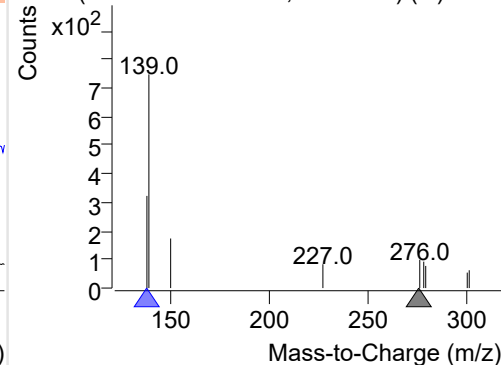
+ Selected Ion (276.0) 221107-PAHs-021.D



276.0, 138.0

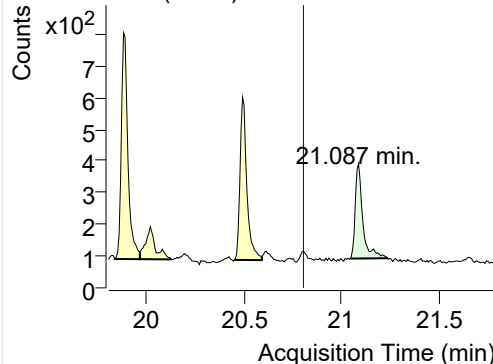


+ SIM (20.686-20.827 min, 19 scans) (**) 2211

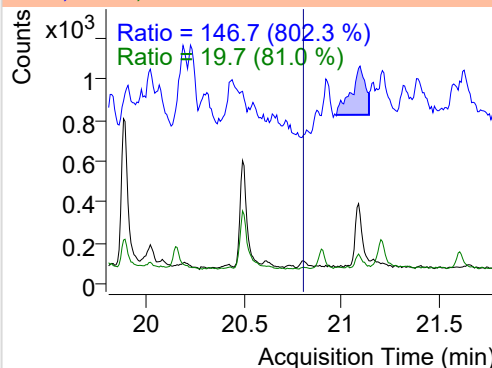


Dibenz(a,h)anthracene

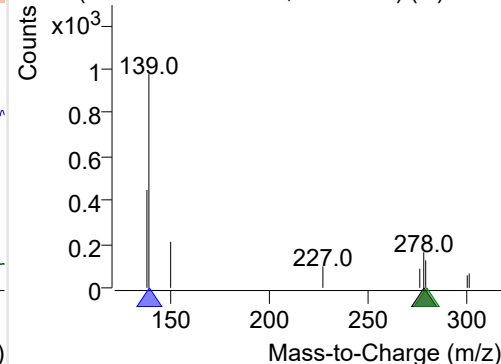
+ Selected Ion (278.0) 221107-PAHs-021.D



278.0, 139.0, 279.0



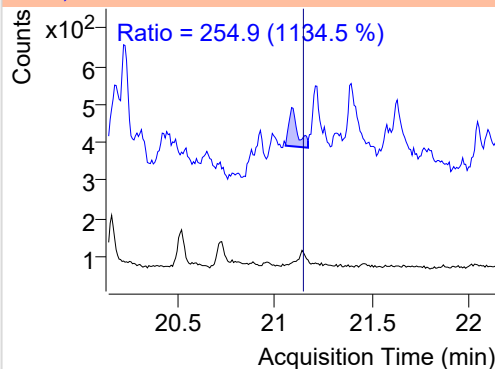
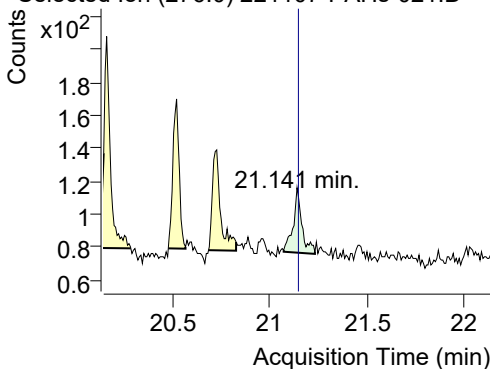
+ SIM (21.044-21.232 min, 25 scans) (**) 2211



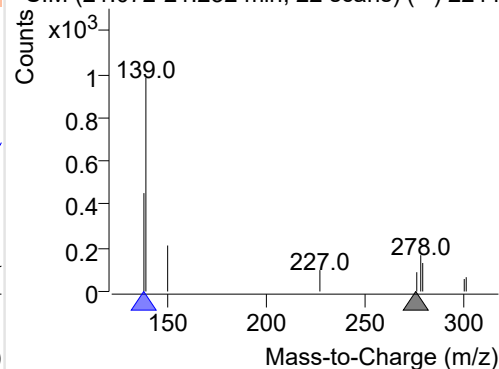
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-021.D

276.0, 138.0

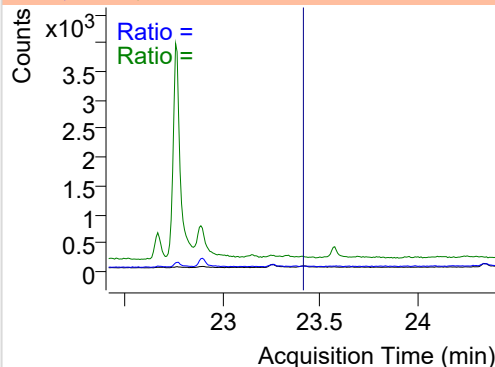
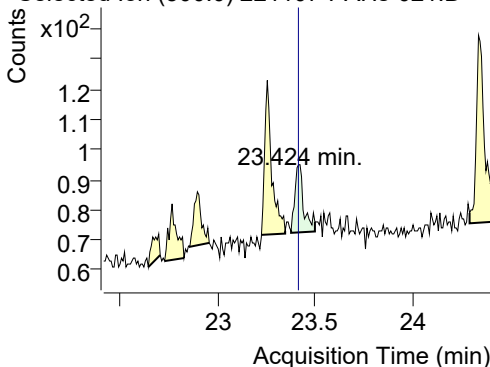


+ SIM (21.072-21.232 min, 22 scans) (**) 2211

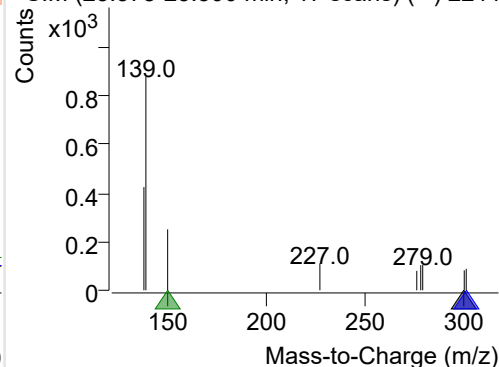
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-021.D

300.0, 301.0, 150.0



+ SIM (23.378-23.500 min, 17 scans) (**) 2211



Quantitative Analysis Sample Based Report

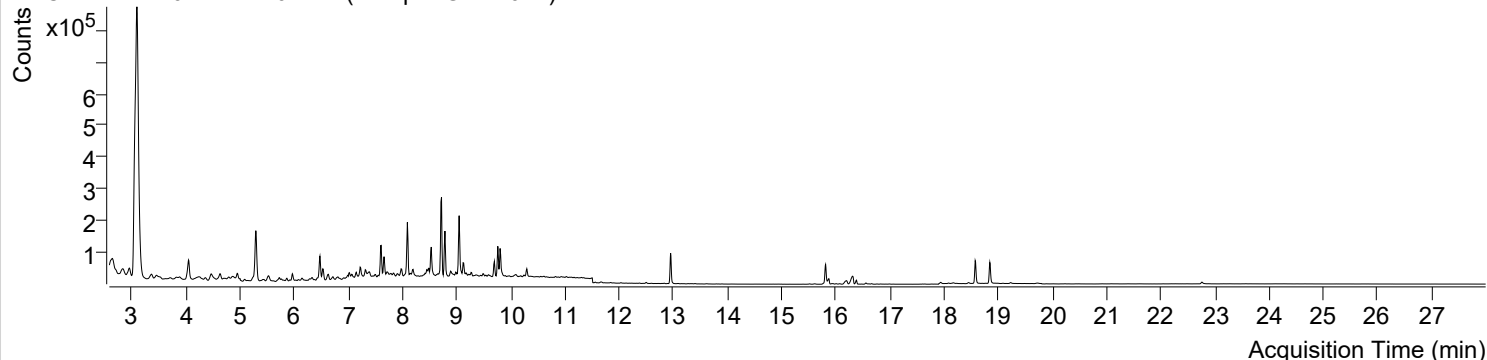


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 2:54:25	Data File	221107-PAHs-022.D
Type	Sample	Name	Sample-Gas-1014
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

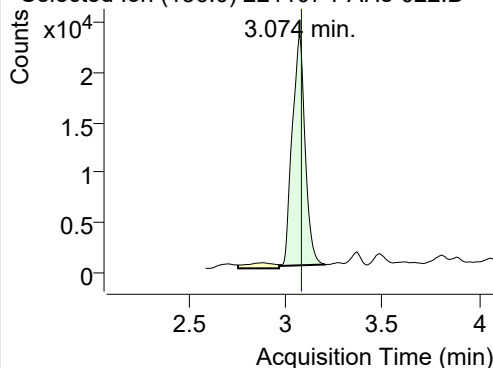
+ TIC SIM 221107-PAHs-022.D (Sample-Gas-1014)



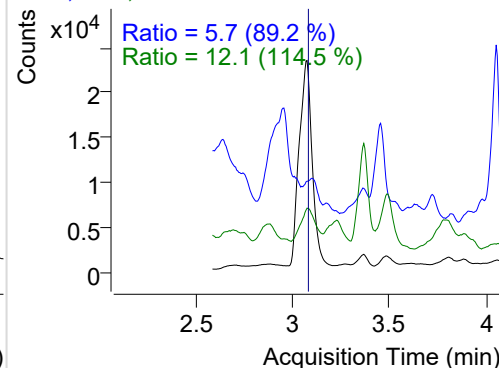
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	106024	22867.03	ND ng/ml	12.1
Naphthalene	3.096	128.0	3102640	672945.49	ND ng/ml	13.7
Acenaphthylene	6.143	152.0	11192	5267.62	ND ng/ml	17.7
IS-D10-Acenaphthene	6.475	164.0	71724	35770.41	ND ng/ml	89.5
Acenaphthene	6.534	154.0	17024	8460.25	ND ng/ml	116.3
LSS-D10-Fluorene	7.606	176.0	76022	42296.11	ND ng/ml	96.8
Fluorene	7.659	166.0	50801	28518.00	ND ng/ml	92.6
IS-D10-Phenanthrene	9.759	188.0	116832	75341.09	ND ng/ml	16.8
Phenanthrene	9.801	178.0	94248	55684.07	ND ng/ml	20.6
Anthracene	9.895	178.0	2678	1549.95	ND ng/ml	
Fluoranthene	12.499	202.0	2844	1764.57	ND ng/ml	46.0
LSS-D10-Pyrene	12.949	212.0	111593	71074.76	ND ng/ml	18.0
Pyrene	12.981	202.0	3541	2085.46	ND ng/ml	14.4
Benz(a)anthracene	15.768	228.0	162	94.50	ND ng/ml	43.9
IS-D12-Chrysene	15.811	240.0	83802	45640.46	ND ng/ml	19.6
Chrysene	15.871	228.0	863	392.50	ND ng/ml	34.5
Benzo(b)fluoranthene	18.089	252.0	120	45.57	ND ng/ml	
Benzo(k)fluoranthene	18.146	252.0	169	58.56	ND ng/ml	42.3
SS-D12-Benzo(e)pyrene	18.573	264.0	86037	48246.80	ND ng/ml	26.7
Benzo(e)pyrene	18.573	252.0	559	222.80	ND ng/ml	25.6
Benzo(a)pyrene	18.708	252.0	47	28.82	ND ng/ml	
IS-D12-Perylene	18.843	264.0	84518	44739.46	ND ng/ml	24.9
Perylene	18.843	252.0	455	199.49	ND ng/ml	15.5
Indeno(1,2,3-c,d)pyrene	20.728	276.0	101	31.16	ND ng/ml	
Dibenz(a,h)anthracene	20.805	278.0	57	19.48	ND ng/ml	
Benzo(g,h,i)perylene	21.148	276.0	68	19.33	ND ng/ml	176.9
Coronene	23.416	300.0	45	12.79	ND ng/ml	

IS-D8-Naphthalene

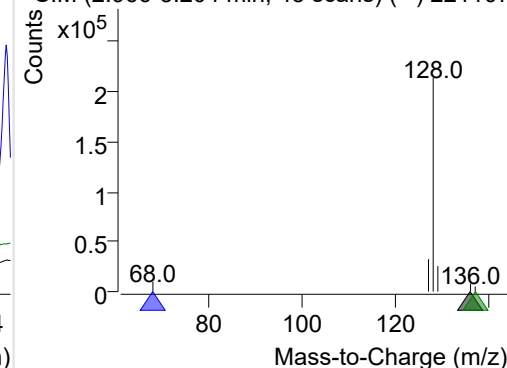
+ Selected Ion (136.0) 221107-PAHs-022.D



136.0, 68.0, 137.0

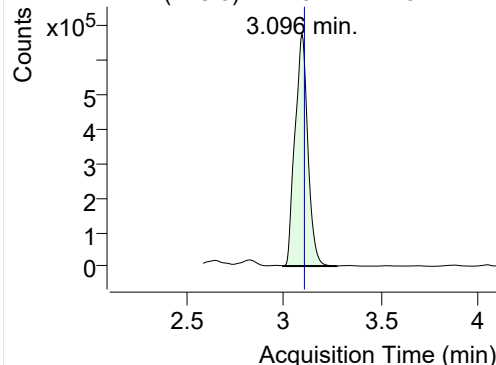


+ SIM (2.966-3.204 min, 45 scans) (**) 221107

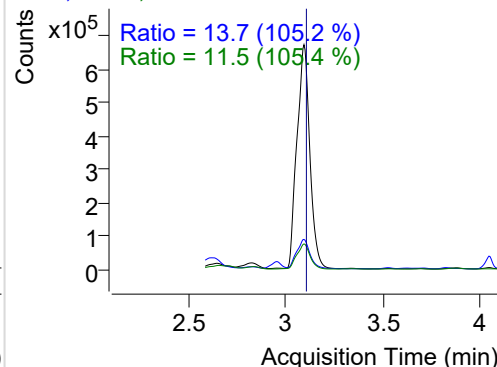


Naphthalene

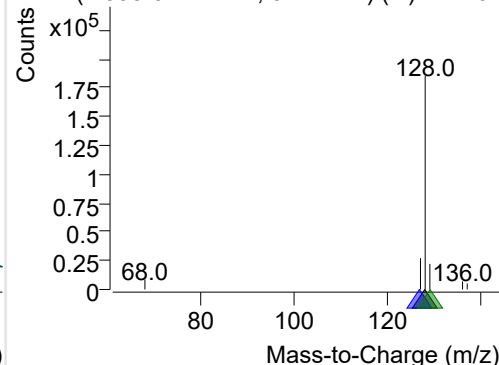
+ Selected Ion (128.0) 221107-PAHs-022.D



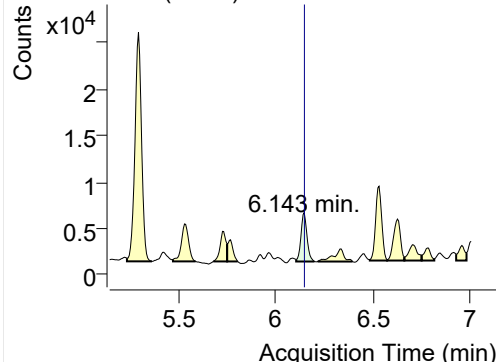
128.0, 127.0, 129.0



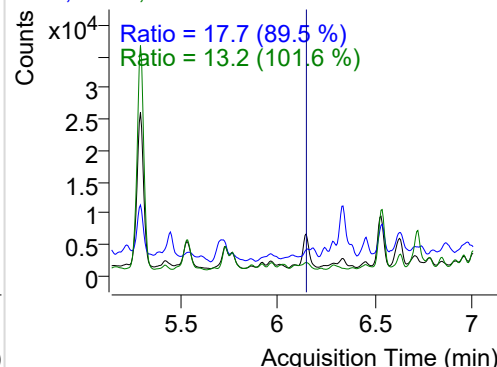
+ SIM (2.998-3.274 min, 52 scans) (**) 221107

**Acenaphthylene**

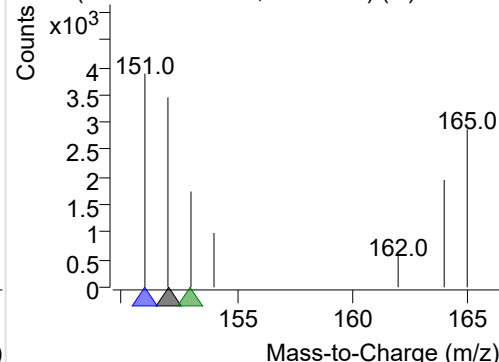
+ Selected Ion (152.0) 221107-PAHs-022.D



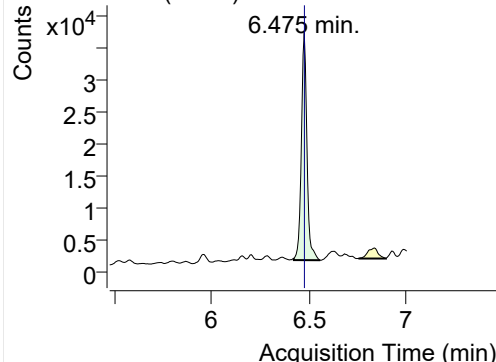
152.0, 151.0, 153.0



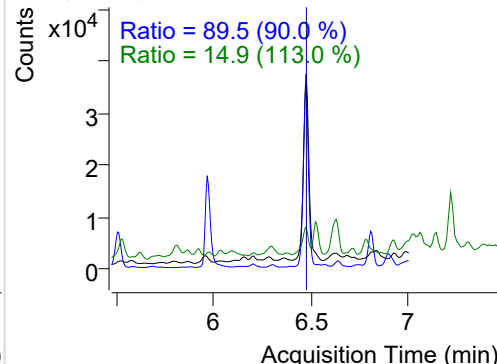
+ SIM (6.102-6.196 min, 16 scans) (**) 221107

**IS-D10-Acenaphthene**

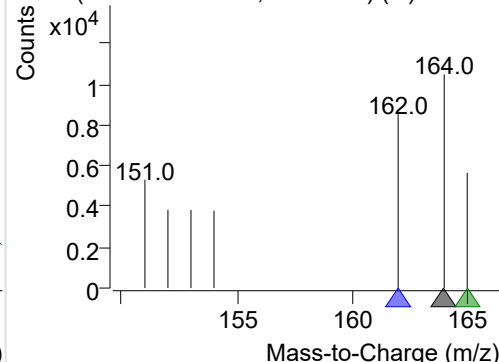
+ Selected Ion (164.0) 221107-PAHs-022.D



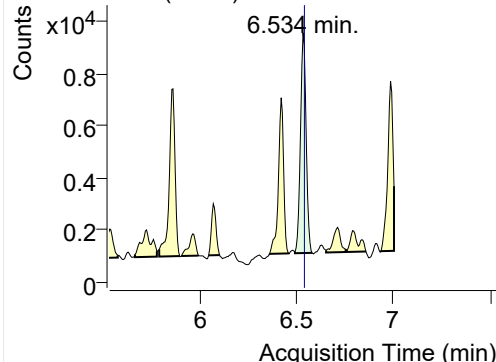
164.0, 162.0, 165.0



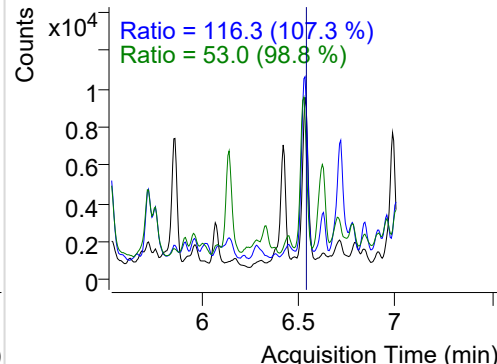
+ SIM (6.422-6.557 min, 23 scans) (**) 221107

**Acenaphthene**

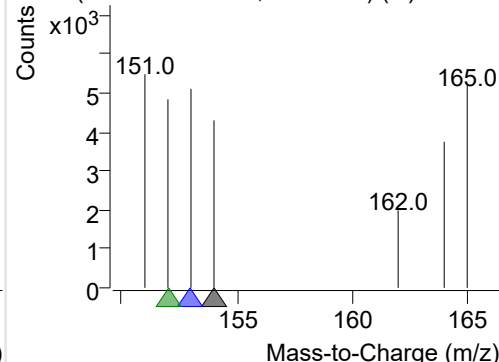
+ Selected Ion (154.0) 221107-PAHs-022.D



154.0, 153.0, 152.0

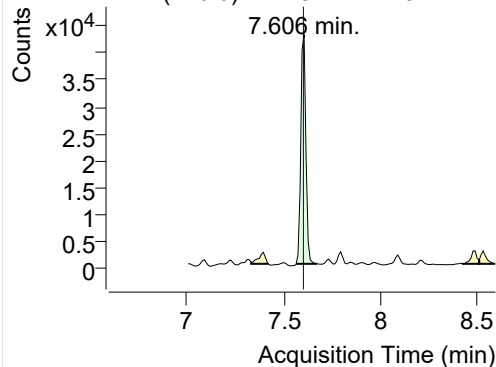


+ SIM (6.493-6.581 min, 15 scans) (**) 221107

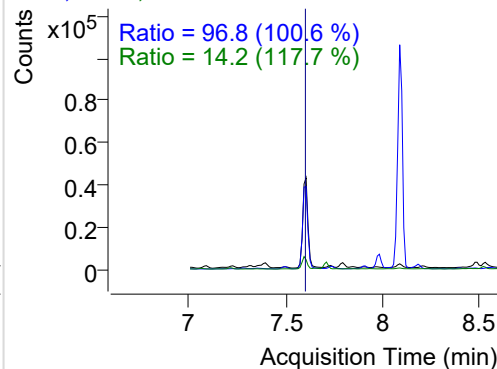


LSS-D10-Fluorene

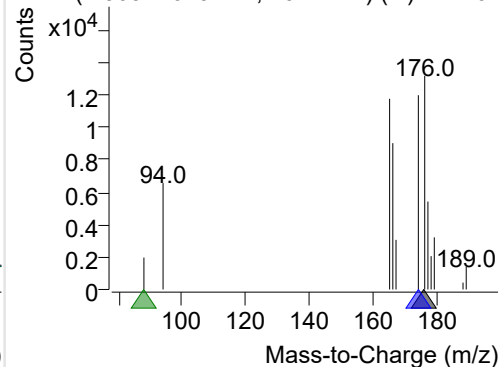
+ Selected Ion (176.0) 221107-PAHs-022.D



176.0, 174.0, 88.0

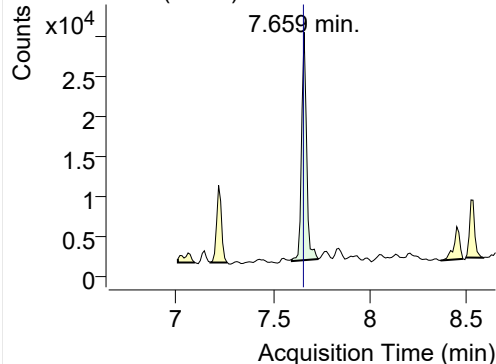


+ SIM (7.565-7.673 min, 10 scans) (**) 221107

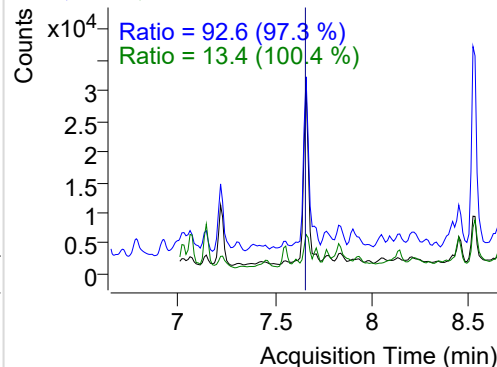


Fluorene

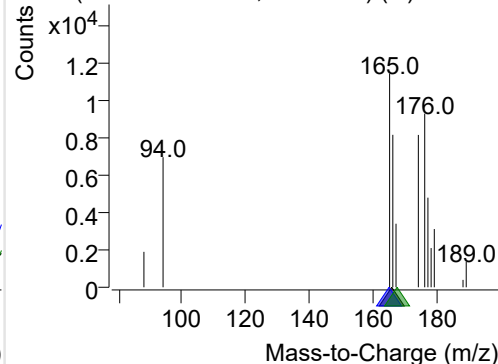
+ Selected Ion (166.0) 221107-PAHs-022.D



166.0, 165.0, 167.0

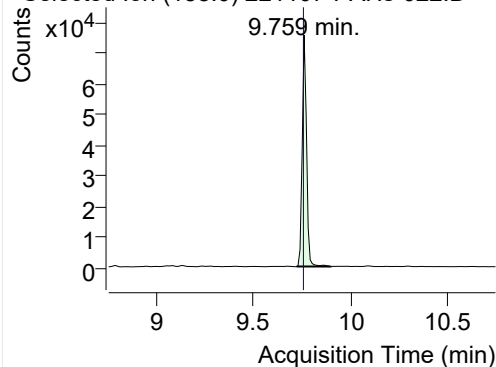


+ SIM (7.596-7.732 min, 13 scans) (**) 221107

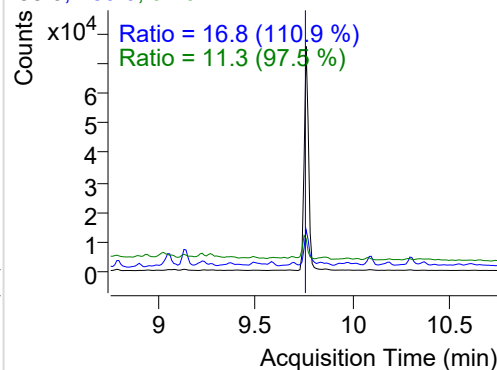


IS-D10-Phenanthrene

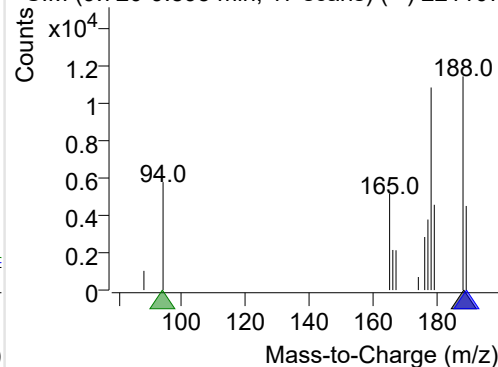
+ Selected Ion (188.0) 221107-PAHs-022.D



188.0, 189.0, 94.0

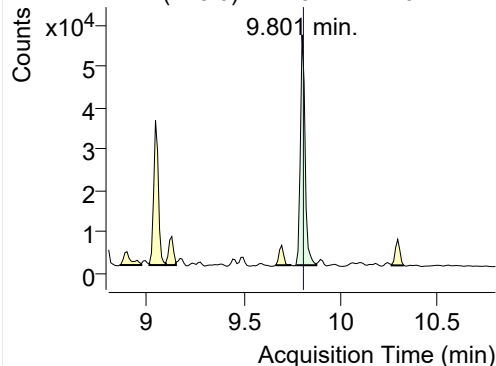


+ SIM (9.720-9.895 min, 17 scans) (**) 221107

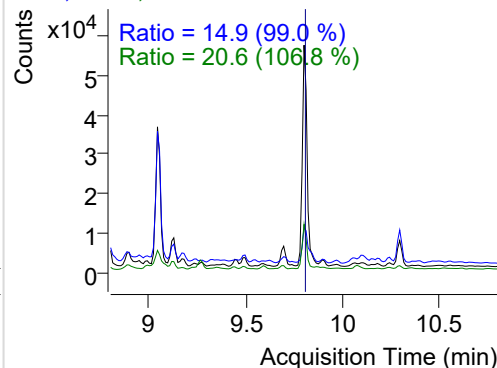


Phenanthrene

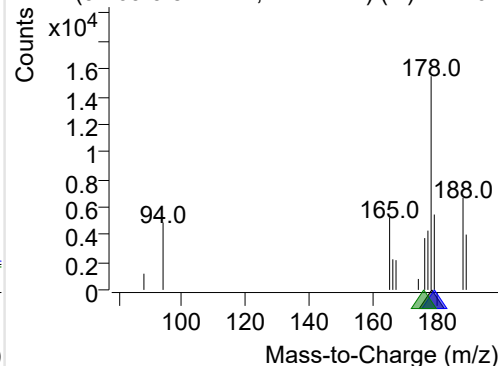
+ Selected Ion (178.0) 221107-PAHs-022.D



178.0, 179.0, 176.0

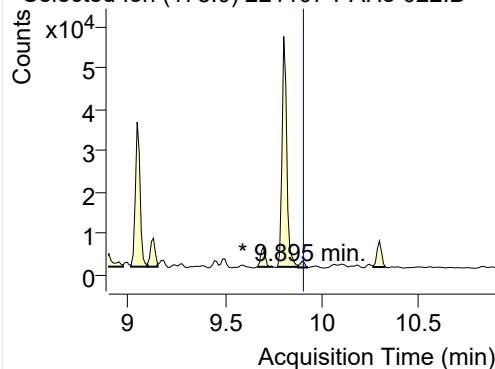


+ SIM (9.769-9.874 min, 11 scans) (**) 221107

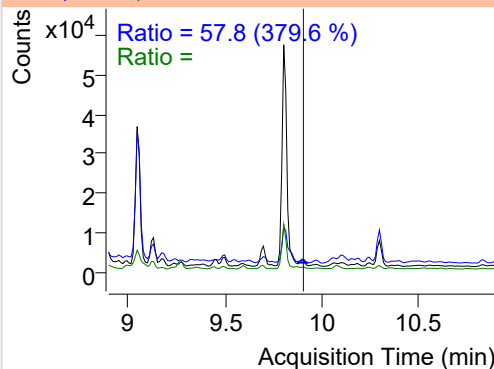


Anthracene

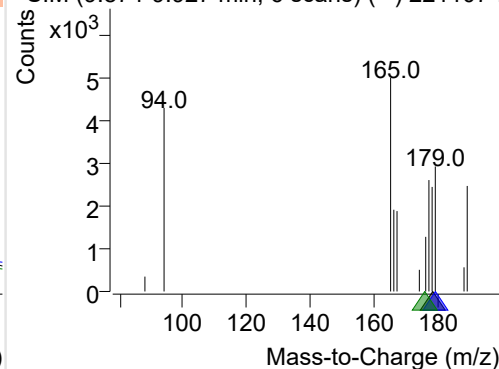
+ Selected Ion (178.0) 221107-PAHs-022.D



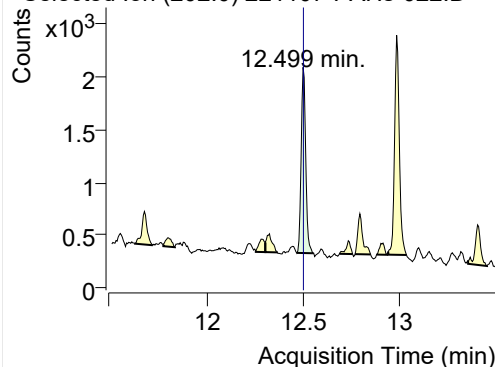
178.0, 179.0, 176.0



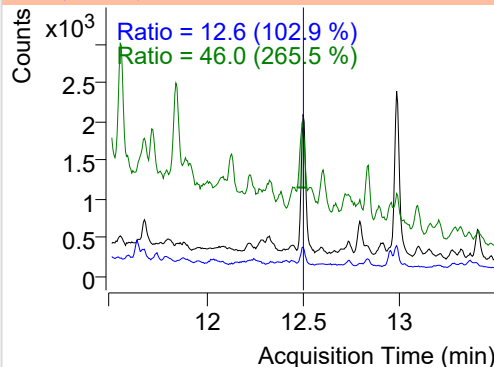
+ SIM (9.874-9.927 min, 6 scans) (**) 221107-I

**Fluoranthene**

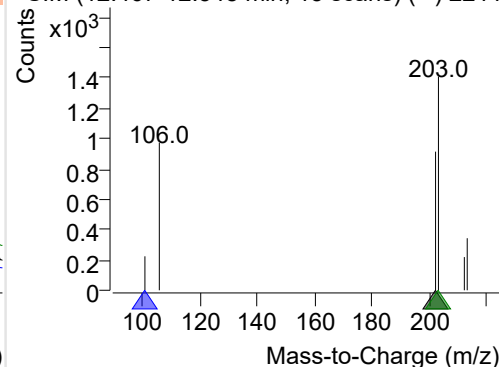
+ Selected Ion (202.0) 221107-PAHs-022.D



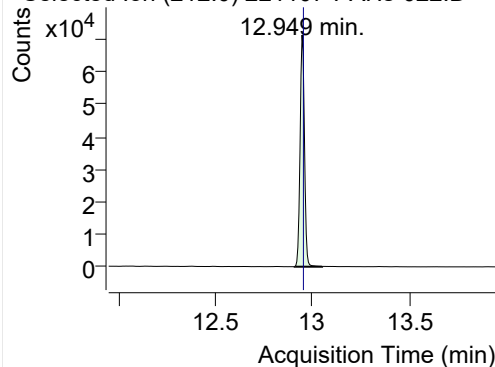
202.0, 101.0, 203.0



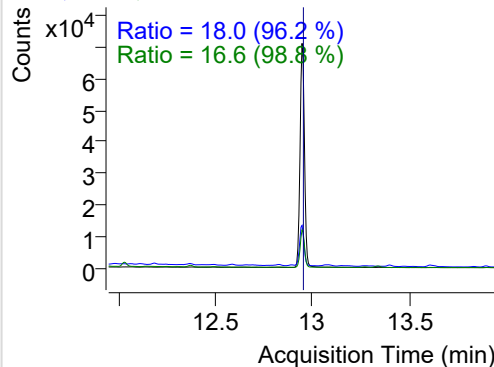
+ SIM (12.467-12.548 min, 15 scans) (**) 2211

**LSS-D10-Pyrene**

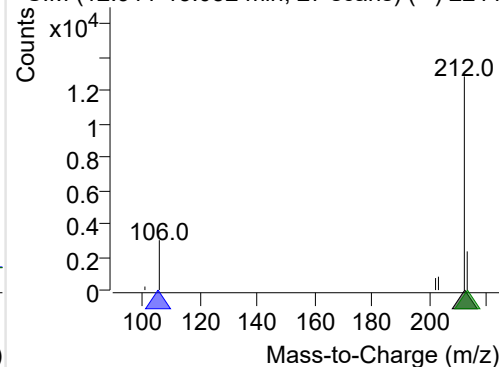
+ Selected Ion (212.0) 221107-PAHs-022.D



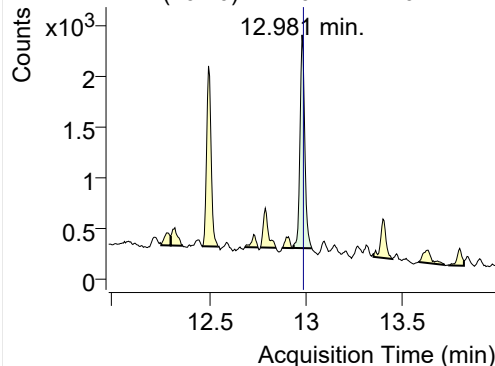
212.0, 106.0, 213.0



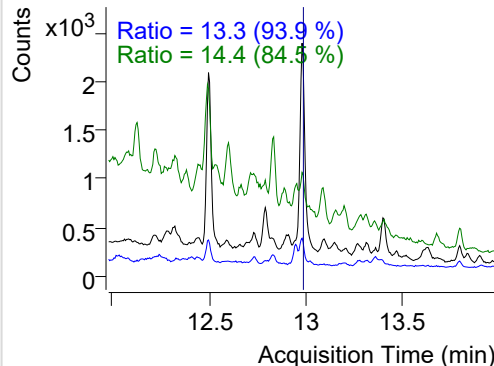
+ SIM (12.911-13.052 min, 27 scans) (**) 2211

**Pyrene**

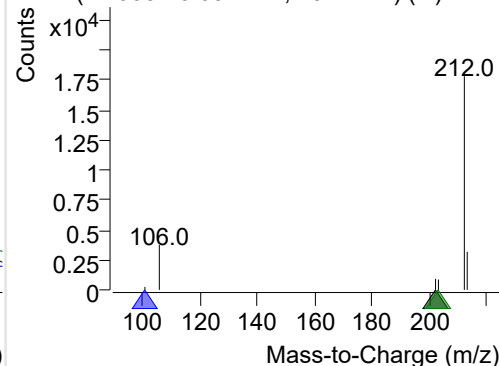
+ Selected Ion (202.0) 221107-PAHs-022.D



202.0, 101.0, 203.0



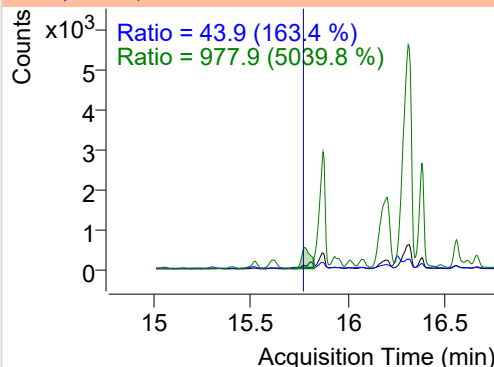
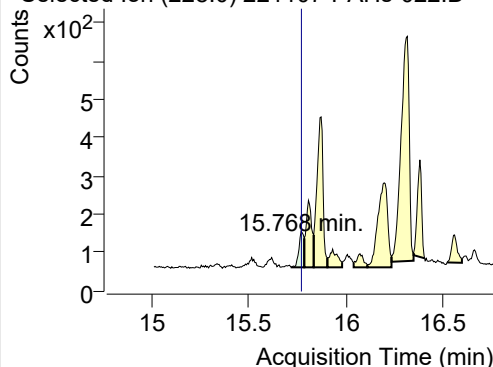
+ SIM (12.938-13.032 min, 18 scans) (**) 2211



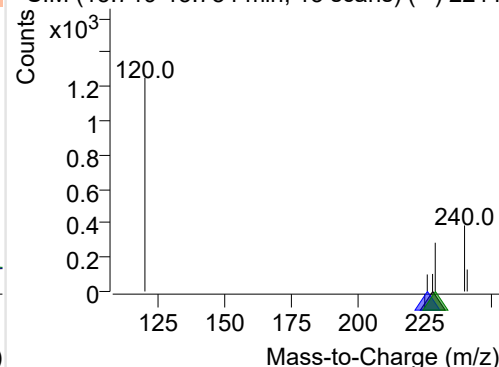
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-022.D

228.0, 226.0, 229.0

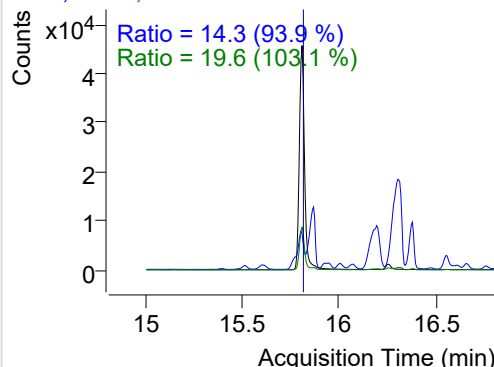
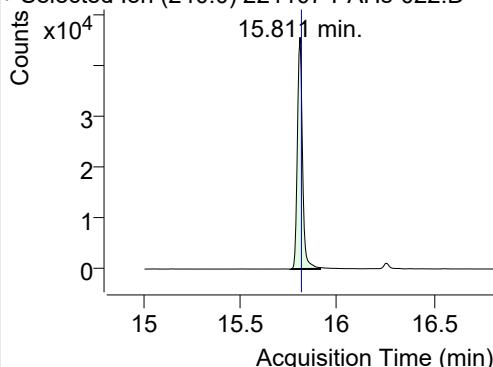


+ SIM (15.719-15.784 min, 13 scans) (**) 2211

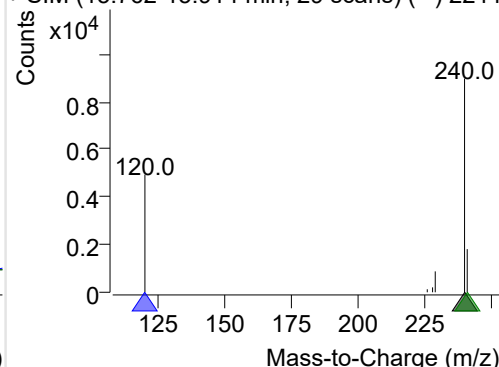
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-022.D

240.0, 120.0, 241.0

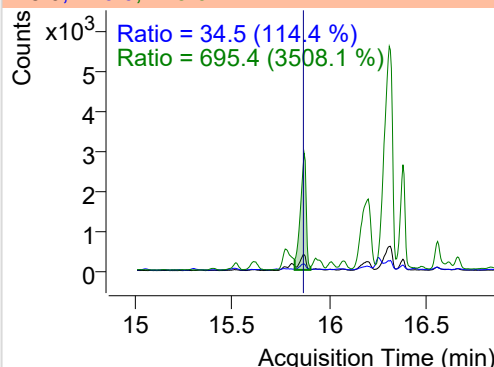
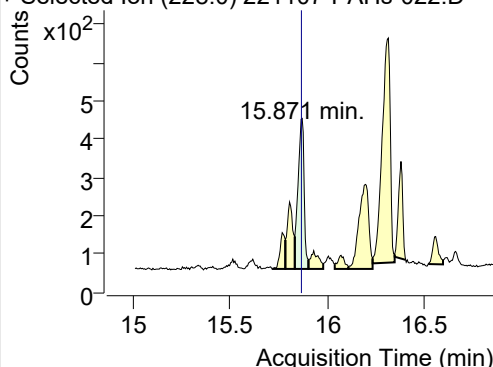


+ SIM (15.762-15.914 min, 29 scans) (**) 2211

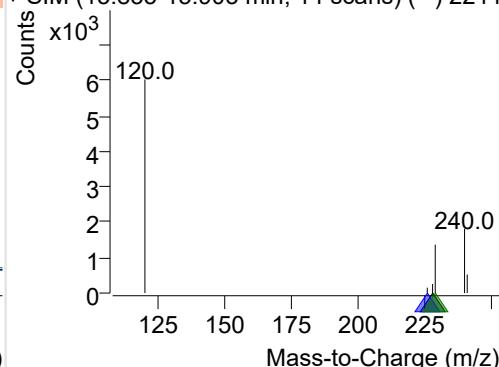
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-022.D

228.0, 226.0, 229.0

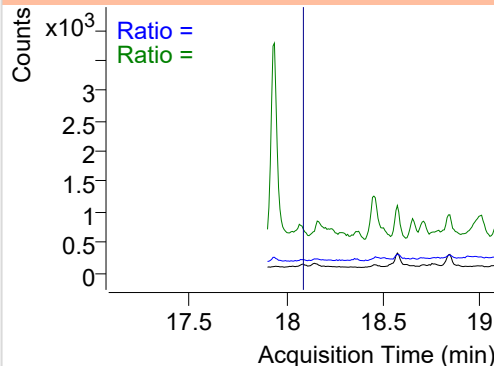
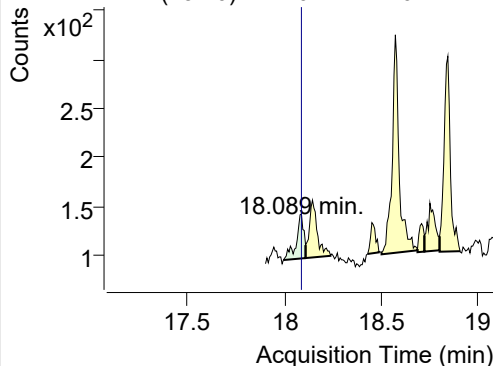


+ SIM (15.833-15.903 min, 14 scans) (**) 2211

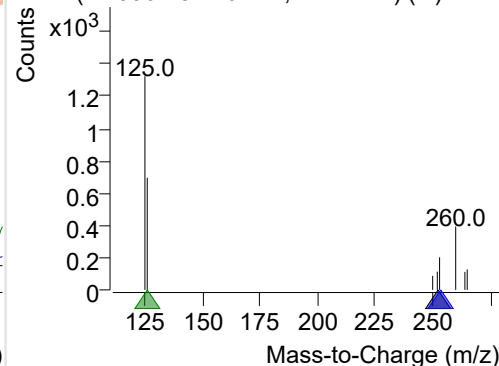
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-022.D

252.0, 253.0, 126.0



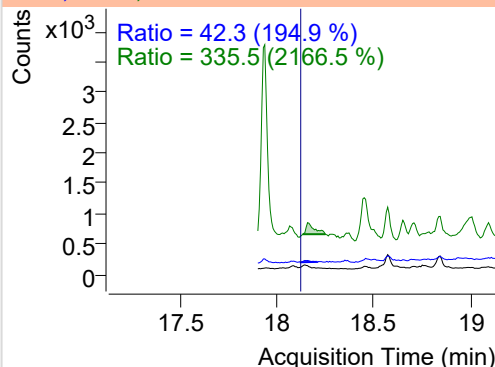
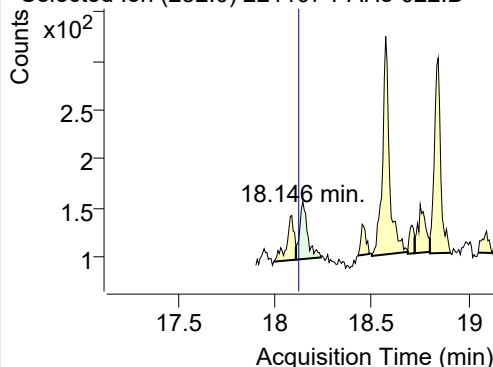
+ SIM (17.996-18.110 min, 17 scans) (**) 2211



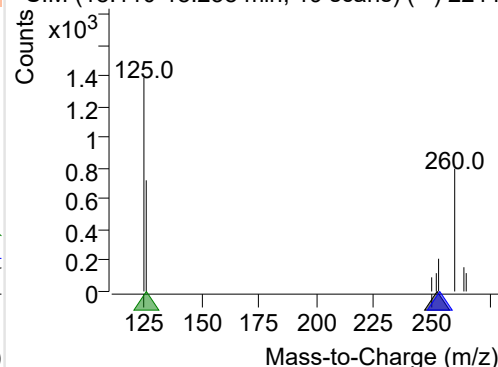
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-022.D

252.0, 253.0, 126.0

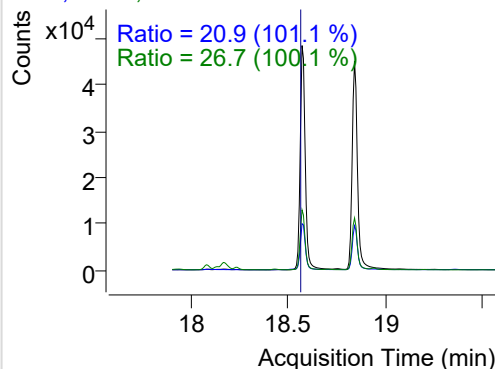
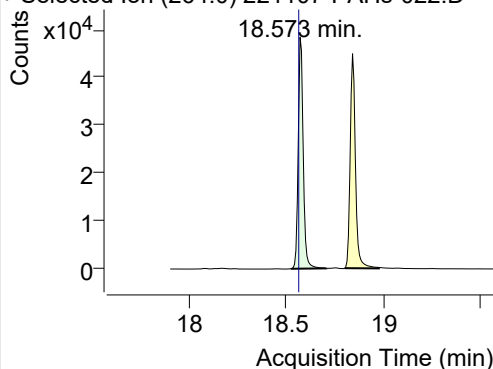


+ SIM (18.110-18.238 min, 19 scans) (**) 2211

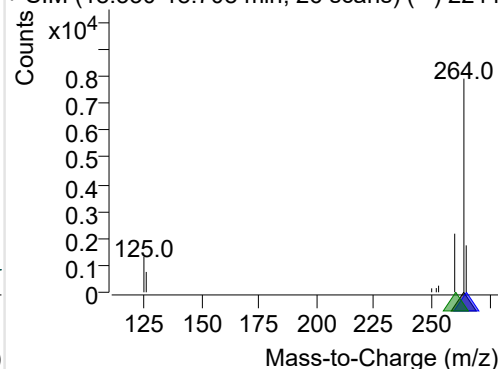
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-022.D

264.0, 265.0, 260.0

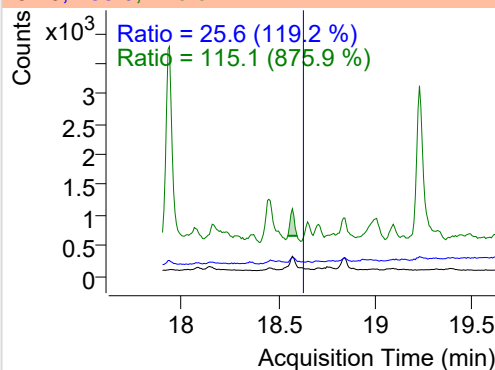
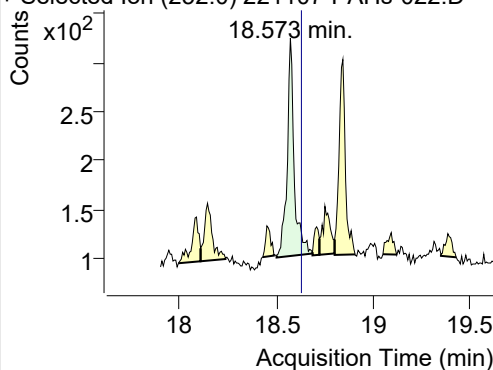


+ SIM (18.530-18.708 min, 26 scans) (**) 2211

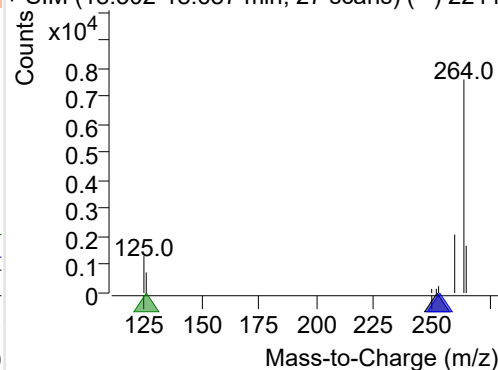
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-022.D

252.0, 253.0, 126.0

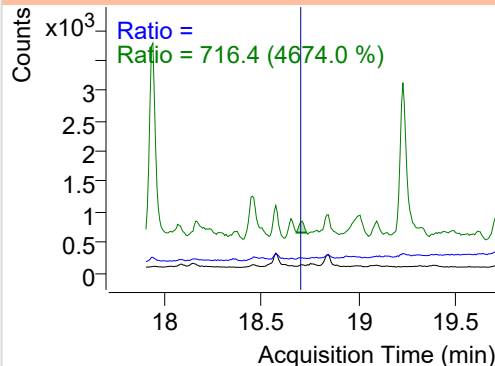
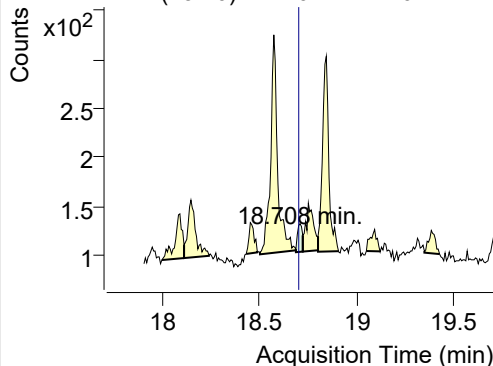


+ SIM (18.502-18.687 min, 27 scans) (**) 2211

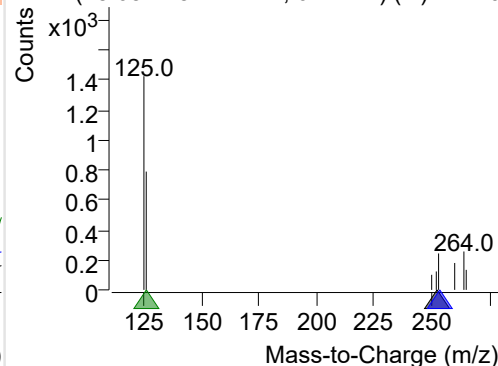
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-022.D

252.0, 253.0, 126.0

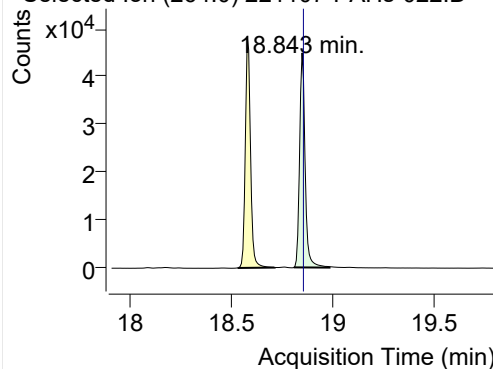


+ SIM (18.687-18.722 min, 6 scans) (**) 22110

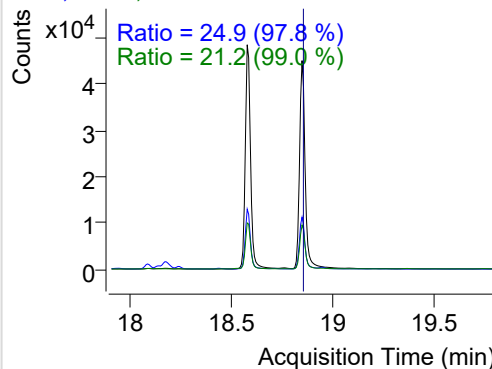


IS-D12-Perylene

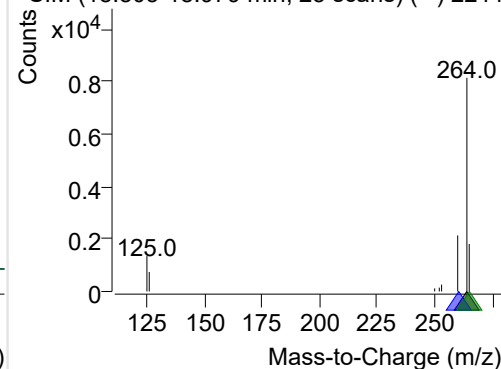
+ Selected Ion (264.0) 221107-PAHs-022.D



264.0, 260.0, 265.0

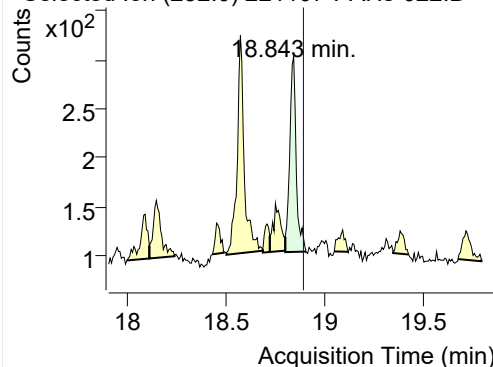


+ SIM (18.803-18.979 min, 25 scans) (**) 2211

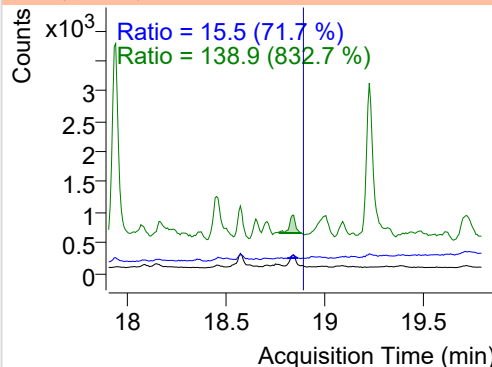


Perylene

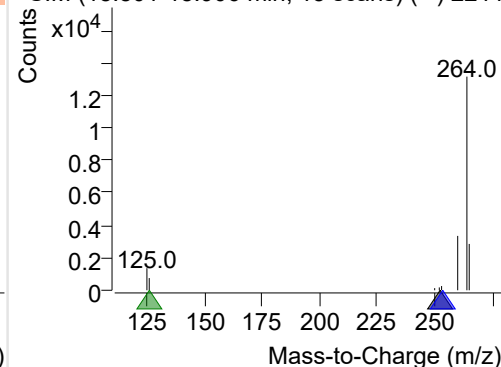
+ Selected Ion (252.0) 221107-PAHs-022.D



252.0, 253.0, 126.0

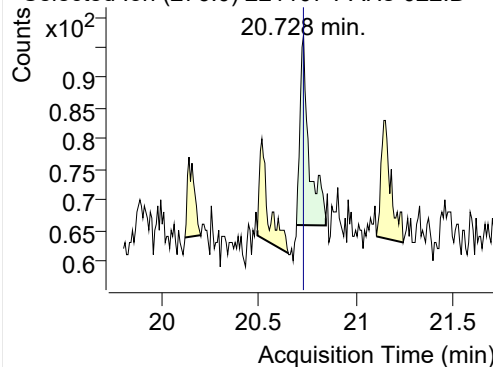


+ SIM (18.801-18.906 min, 15 scans) (**) 2211

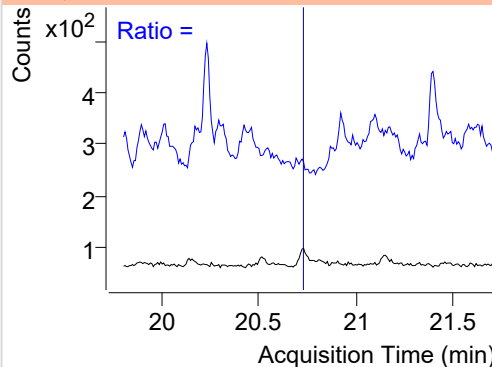


Indeno(1,2,3-c,d)pyrene

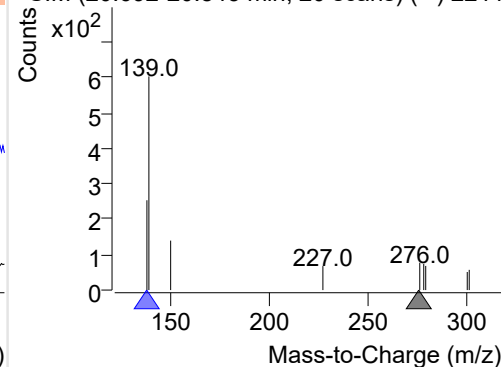
+ Selected Ion (276.0) 221107-PAHs-022.D



276.0, 138.0

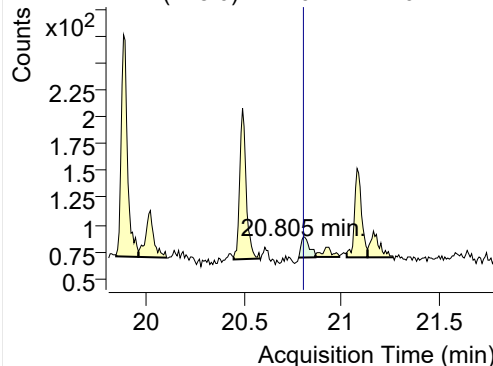


+ SIM (20.692-20.843 min, 20 scans) (**) 2211

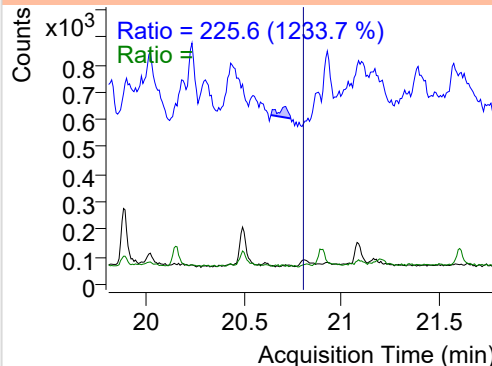


Dibenz(a,h)anthracene

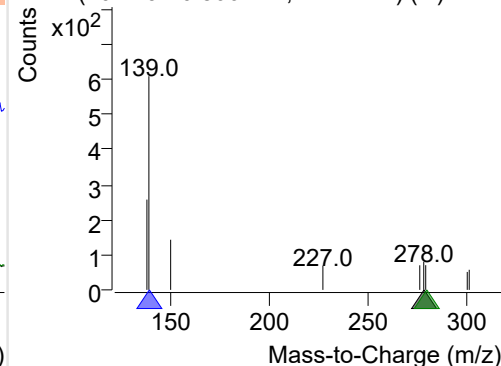
+ Selected Ion (278.0) 221107-PAHs-022.D



278.0, 139.0, 279.0



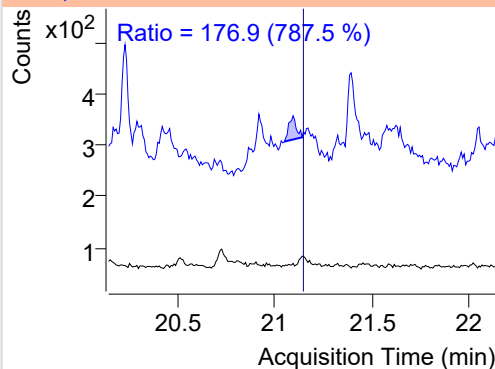
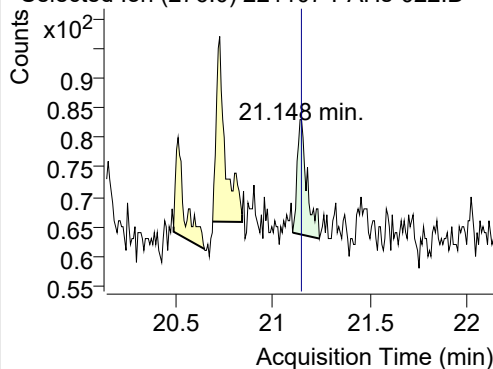
+ SIM (20.779-20.866 min, 12 scans) (**) 2211



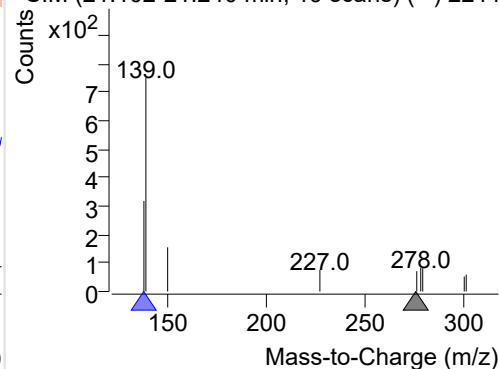
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-022.D

276.0, 138.0

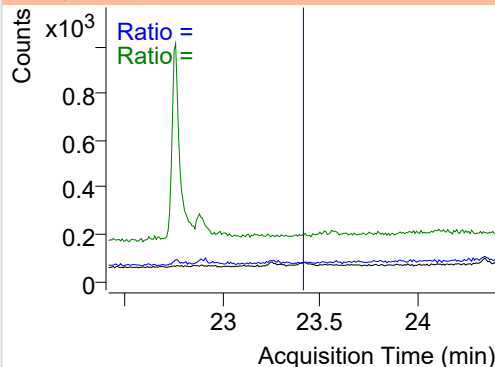
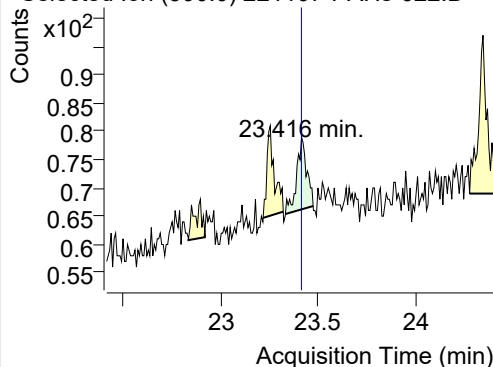


+ SIM (21.102-21.240 min, 19 scans) (**) 2211

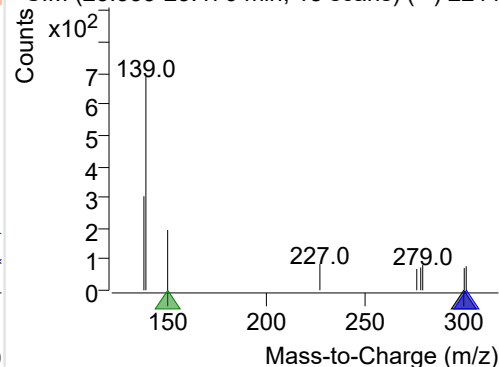
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-022.D

300.0, 301.0, 150.0



+ SIM (23.333-23.476 min, 18 scans) (**) 2211



Quantitative Analysis Sample Based Report

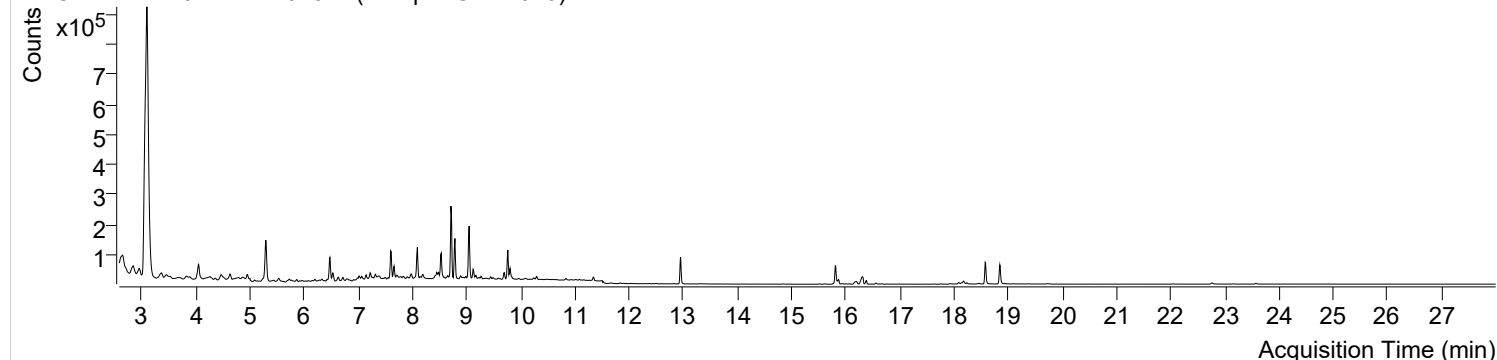


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 3:25:25	Data File	221107-PAHs-023.D
Type	Sample	Name	Sample-Gas-1020
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

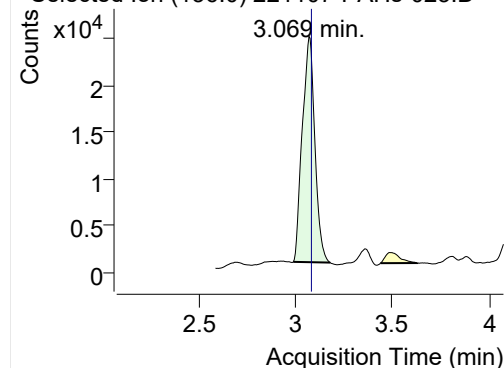
+ TIC SIM 221107-PAHs-023.D (Sample-Gas-1020)



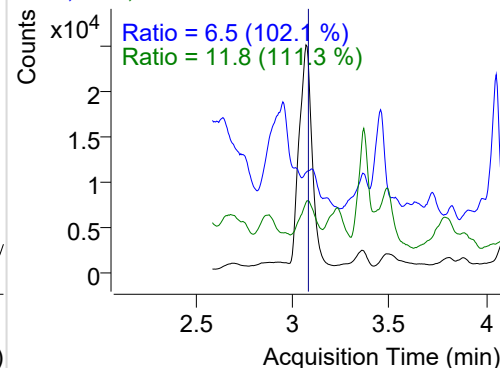
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	108037	24092.42	ND ng/ml	11.8
Naphthalene	3.096	128.0	3219882	713411.19	ND ng/ml	13.3
Acenaphthylene	6.143	152.0	3520	1724.53	ND ng/ml	79.8
IS-D10-Acenaphthene	6.475	164.0	71876	37390.51	ND ng/ml	95.3
Acenaphthene	6.534	154.0	11954	6183.87	ND ng/ml	101.5
LSS-D10-Fluorene	7.606	176.0	70535	39225.70	ND ng/ml	96.8
Fluorene	7.659	166.0	32616	18635.05	ND ng/ml	98.0
IS-D10-Phenanthrene	9.759	188.0	120242	78173.82	ND ng/ml	16.5
Phenanthrene	9.801	178.0	35667	22116.96	ND ng/ml	19.7
Anthracene	9.895	178.0	1044	662.34	ND ng/ml	102.2
Fluoranthene	12.499	202.0	1626	962.98	ND ng/ml	52.9
LSS-D10-Pyrene	12.949	212.0	103032	66418.19	ND ng/ml	17.8
Pyrene	12.981	202.0	2053	1105.61	ND ng/ml	5.7
Benz(a)anthracene	15.805	228.0	450	168.09	ND ng/ml	19.1
IS-D12-Chrysene	15.811	240.0	84877	45692.80	ND ng/ml	19.5
Chrysene	15.865	228.0	792	354.51	ND ng/ml	33.3
Benzo(b)fluoranthene	18.082	252.0	84	38.81	ND ng/ml	
Benzo(k)fluoranthene	18.131	252.0	155	36.81	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	88351	48022.55	ND ng/ml	26.7
Benzo(e)pyrene	18.573	252.0	519	229.81	ND ng/ml	27.5
Benzo(a)pyrene	18.729	252.0	73	24.81	ND ng/ml	
IS-D12-Perylene	18.843	264.0	84584	43230.57	ND ng/ml	24.5
Perylene	18.843	252.0	433	189.81	ND ng/ml	24.3
Indeno(1,2,3-c,d)pyrene	20.743	276.0	15	9.69	ND ng/ml	
Dibenz(a,h)anthracene	20.797	278.0	52	17.56	ND ng/ml	
Benzo(g,h,i)perylene	21.133	276.0	62	17.83	ND ng/ml	57.8
Coronene	23.416	300.0	28	13.84	ND ng/ml	

IS-D8-Naphthalene

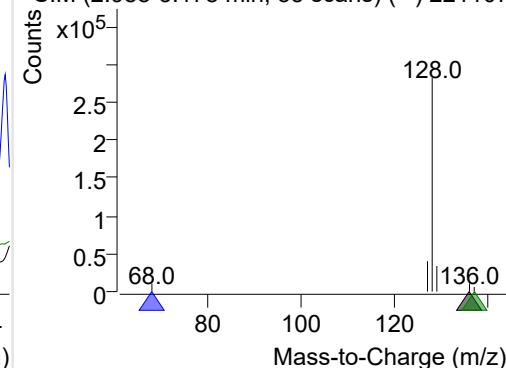
+ Selected Ion (136.0) 221107-PAHs-023.D



136.0, 68.0, 137.0

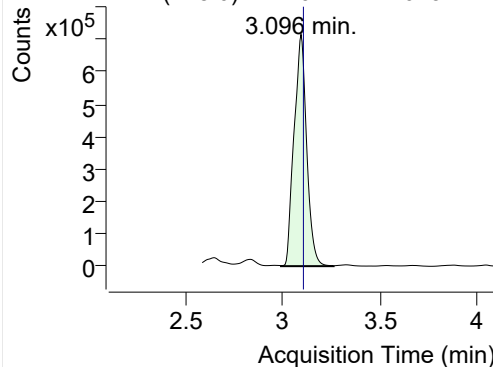


+ SIM (2.988-3.178 min, 35 scans) (**) 221107

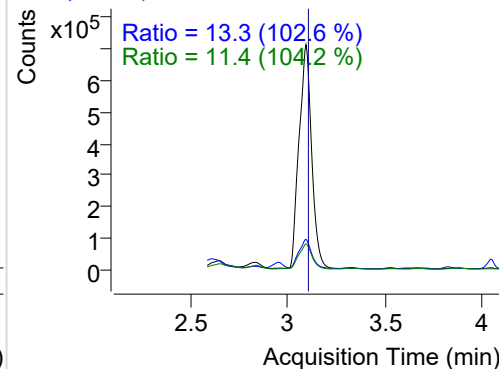


Naphthalene

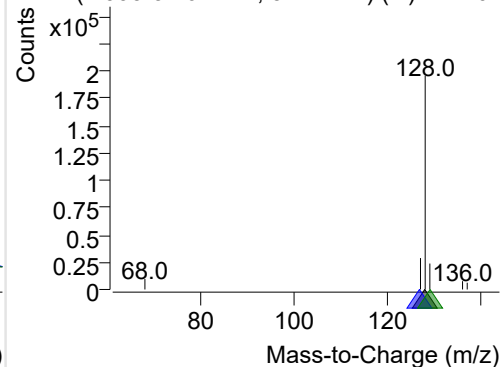
+ Selected Ion (128.0) 221107-PAHs-023.D



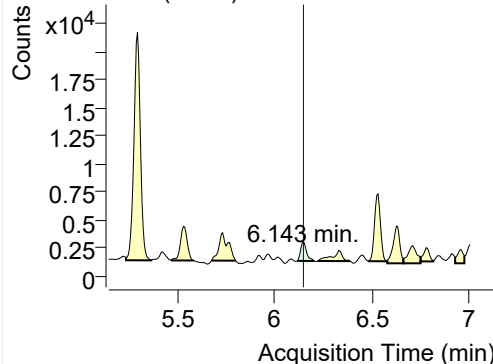
128.0, 127.0, 129.0



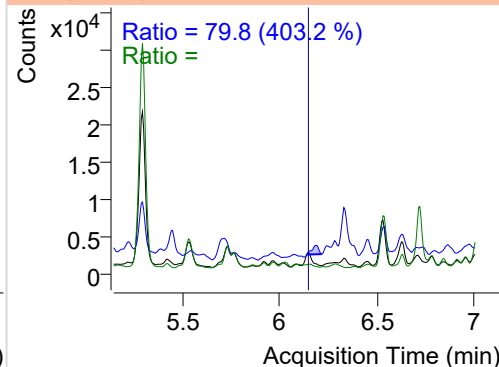
+ SIM (2.993-3.264 min, 51 scans) (**) 221107

**Acenaphthylene**

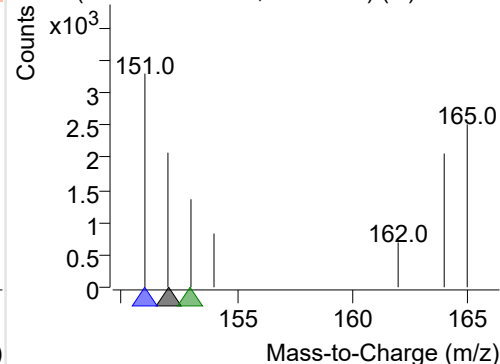
+ Selected Ion (152.0) 221107-PAHs-023.D



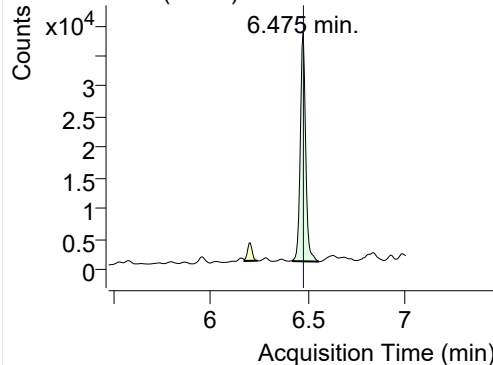
152.0, 151.0, 153.0



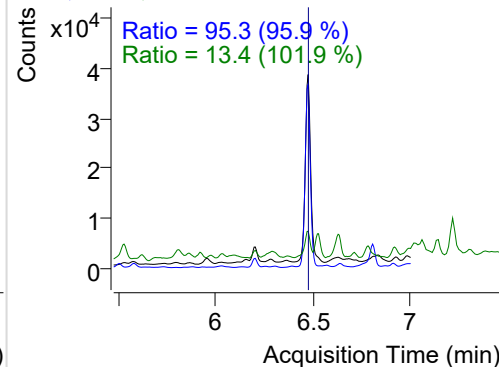
+ SIM (6.114-6.200 min, 14 scans) (**) 221107

**IS-D10-Acenaphthene**

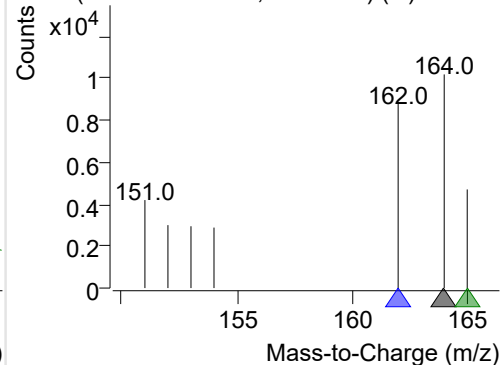
+ Selected Ion (164.0) 221107-PAHs-023.D



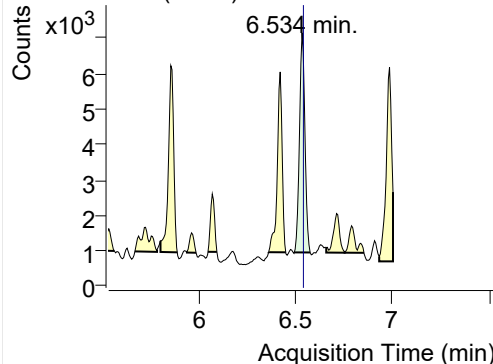
164.0, 162.0, 165.0



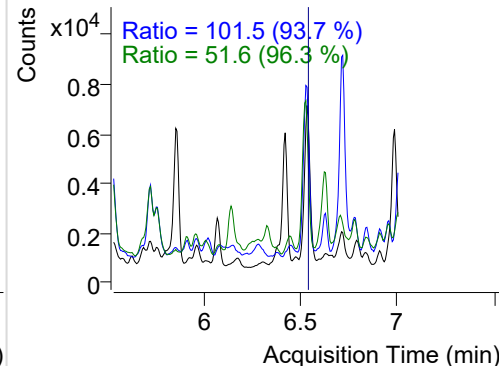
+ SIM (6.421-6.556 min, 23 scans) (**) 221107

**Acenaphthene**

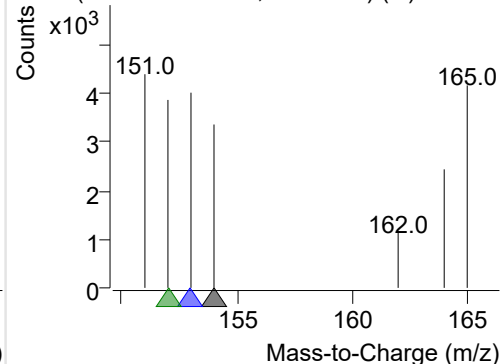
+ Selected Ion (154.0) 221107-PAHs-023.D



154.0, 153.0, 152.0

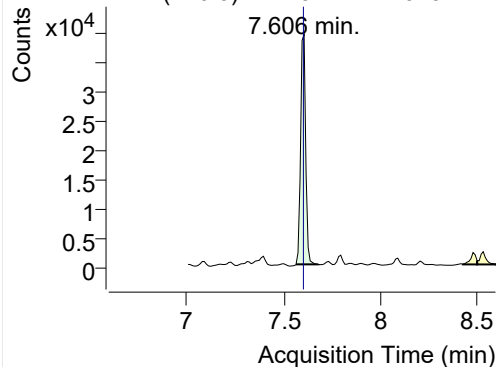


+ SIM (6.494-6.575 min, 14 scans) (**) 221107

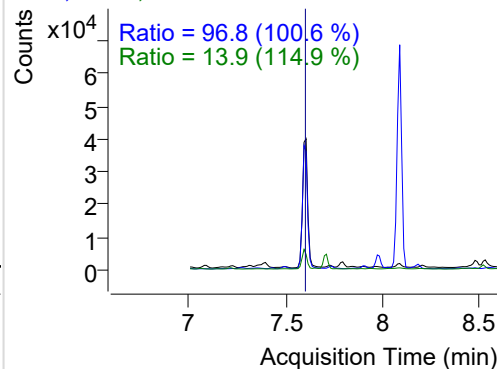


LSS-D10-Fluorene

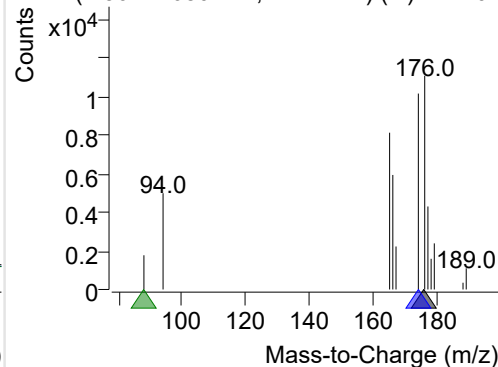
+ Selected Ion (176.0) 221107-PAHs-023.D



176.0, 174.0, 88.0

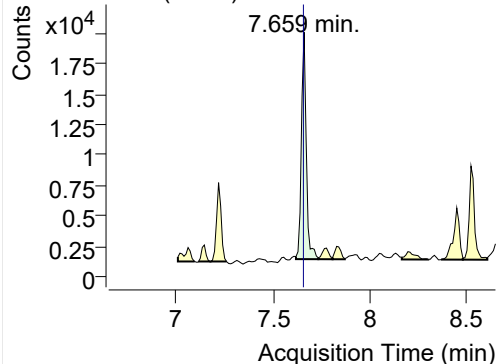


+ SIM (7.564-7.680 min, 11 scans) (**) 221107

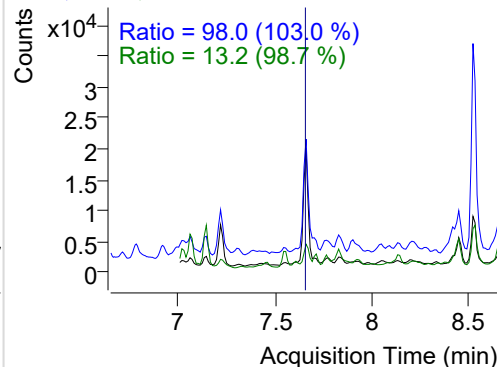


Fluorene

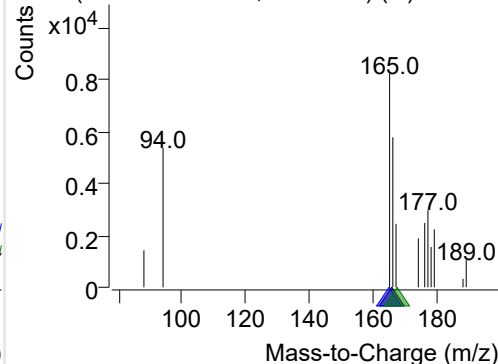
+ Selected Ion (166.0) 221107-PAHs-023.D



166.0, 165.0, 167.0

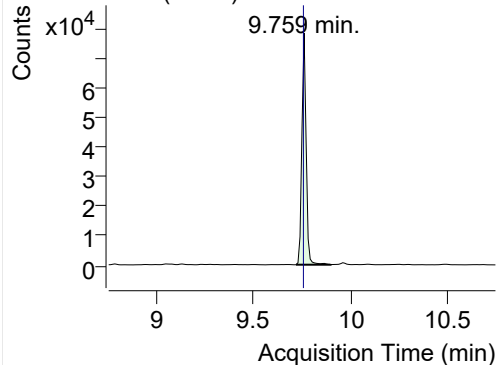


+ SIM (7.617-7.732 min, 12 scans) (**) 221107

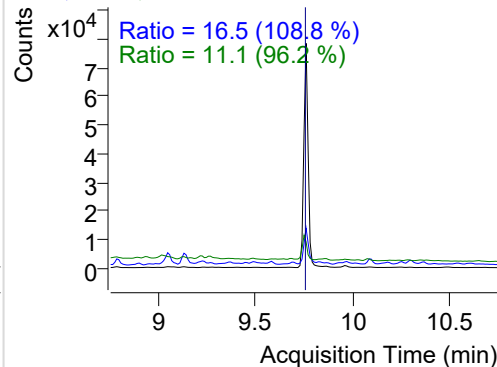


IS-D10-Phenanthrene

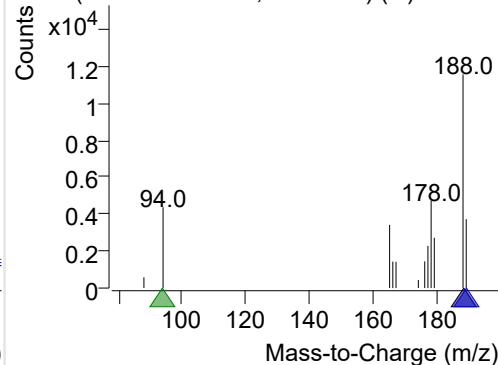
+ Selected Ion (188.0) 221107-PAHs-023.D



188.0, 189.0, 94.0

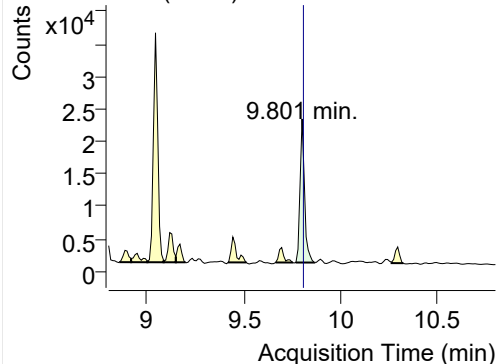


+ SIM (9.717-9.895 min, 17 scans) (**) 221107

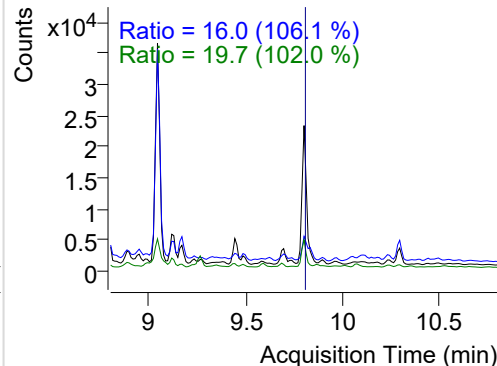


Phenanthrene

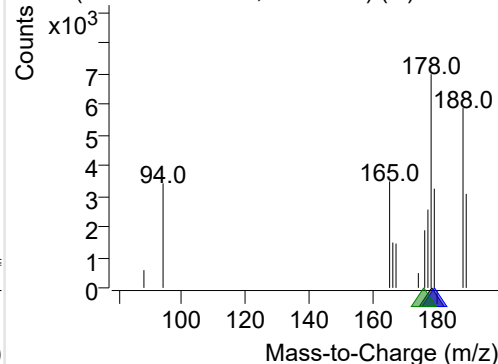
+ Selected Ion (178.0) 221107-PAHs-023.D



178.0, 179.0, 176.0

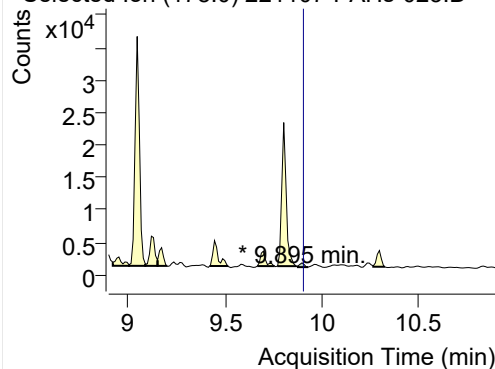


+ SIM (9.768-9.864 min, 10 scans) (**) 221107

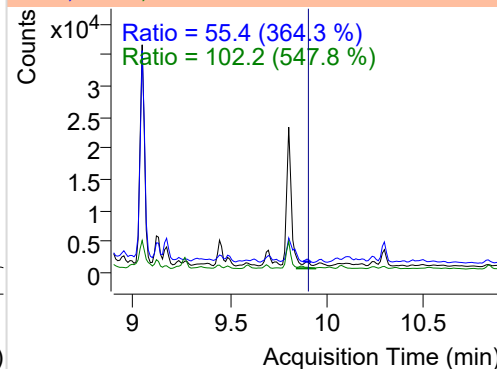


Anthracene

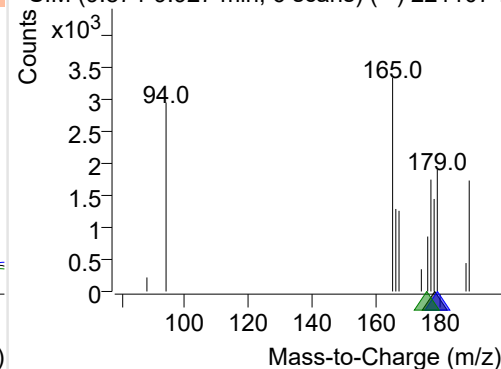
+ Selected Ion (178.0) 221107-PAHs-023.D



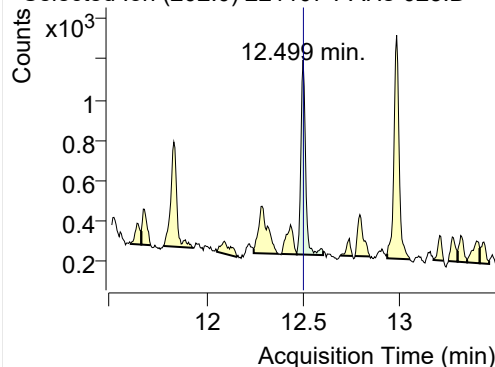
178.0, 179.0, 176.0



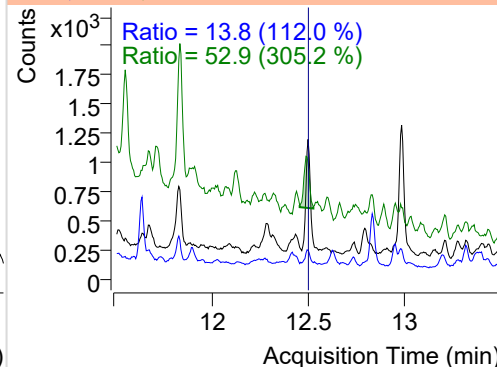
+ SIM (9.874-9.927 min, 6 scans) (**) 221107-I

**Fluoranthene**

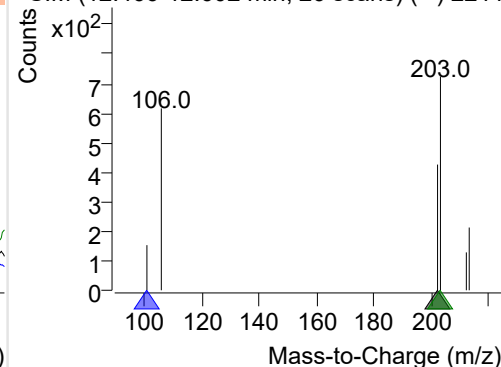
+ Selected Ion (202.0) 221107-PAHs-023.D



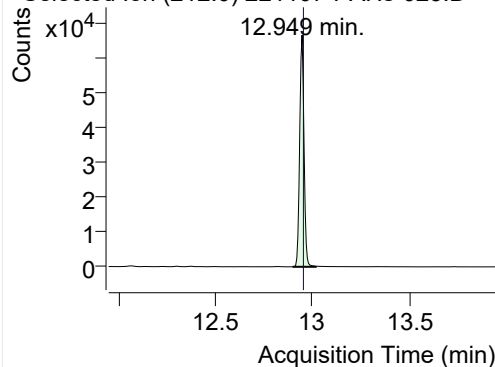
202.0, 101.0, 203.0



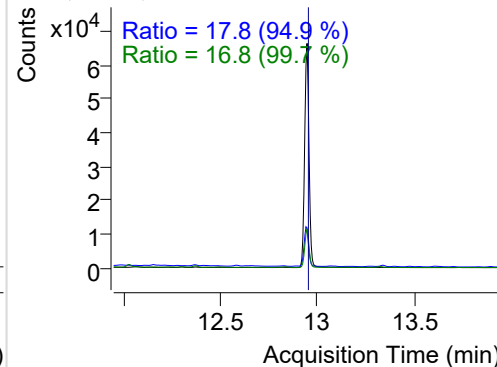
+ SIM (12.466-12.602 min, 26 scans) (**) 2211

**LSS-D10-Pyrene**

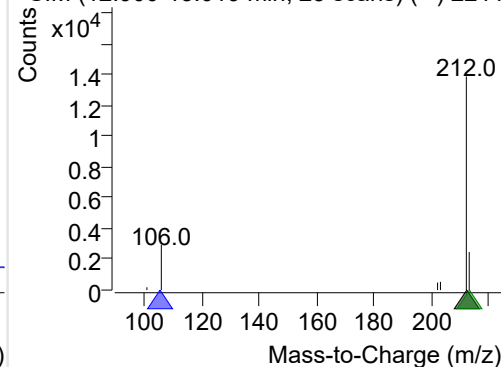
+ Selected Ion (212.0) 221107-PAHs-023.D



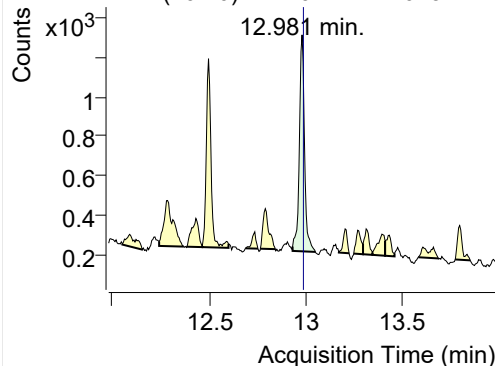
212.0, 106.0, 213.0



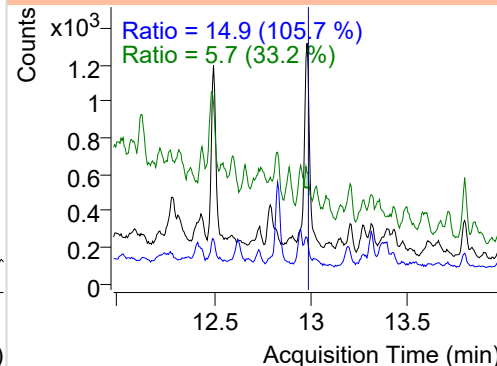
+ SIM (12.900-13.019 min, 23 scans) (**) 2211

**Pyrene**

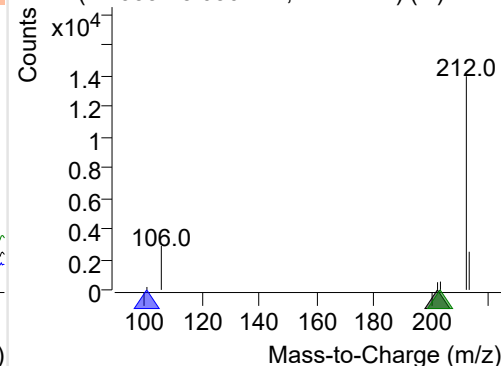
+ Selected Ion (202.0) 221107-PAHs-023.D



202.0, 101.0, 203.0



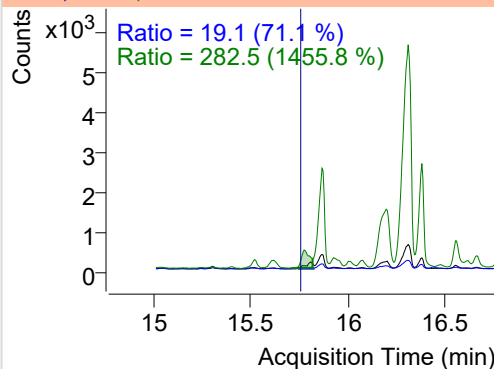
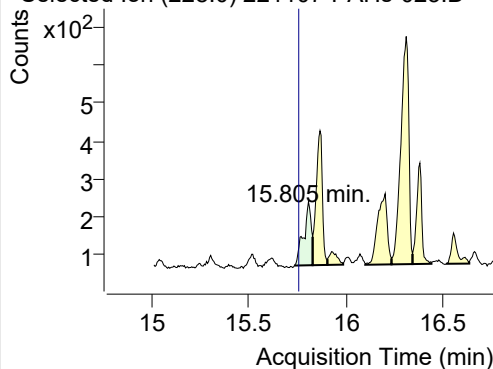
+ SIM (12.933-13.050 min, 22 scans) (**) 2211



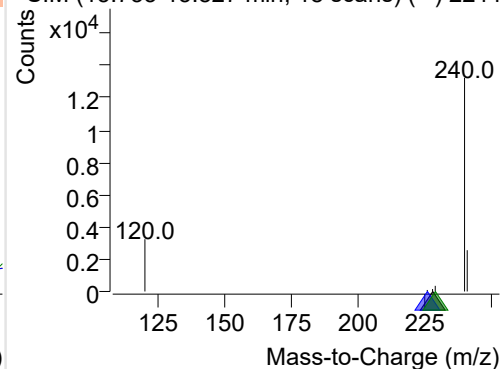
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-023.D

228.0, 226.0, 229.0

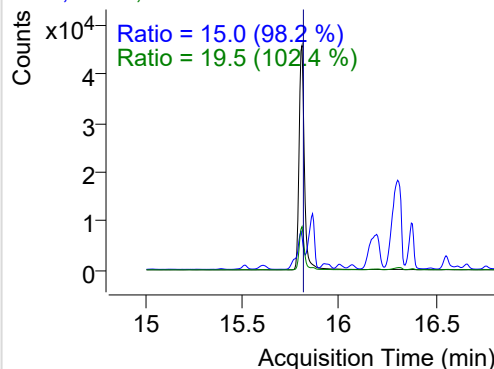
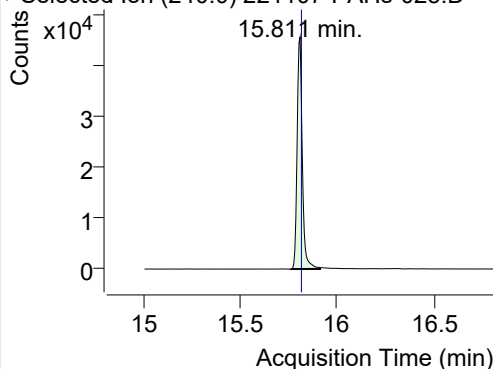


+ SIM (15.733-15.827 min, 18 scans) (**) 2211

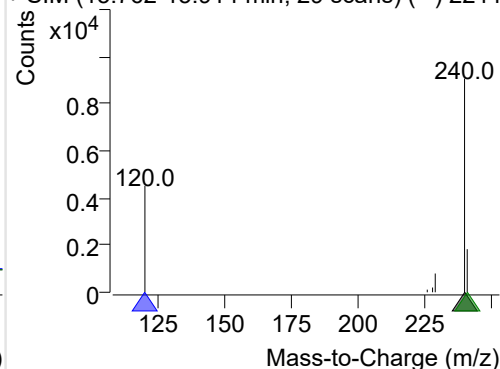
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-023.D

240.0, 120.0, 241.0

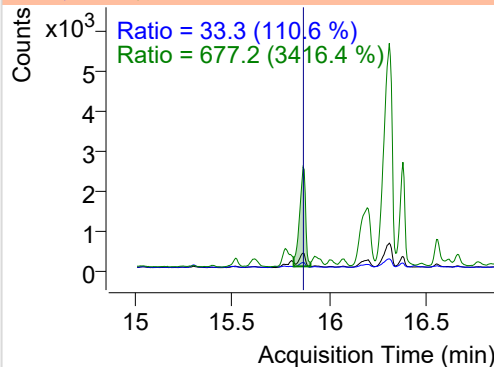
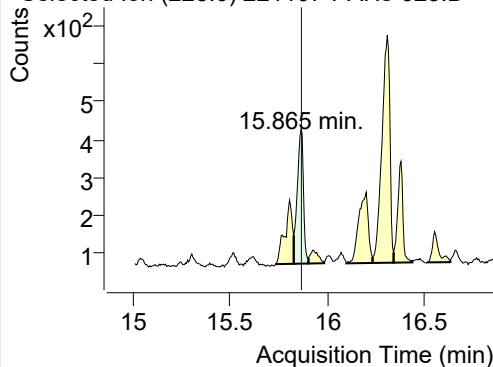


+ SIM (15.762-15.914 min, 29 scans) (**) 2211

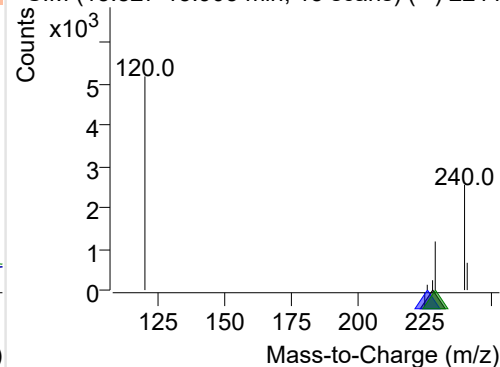
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-023.D

228.0, 226.0, 229.0

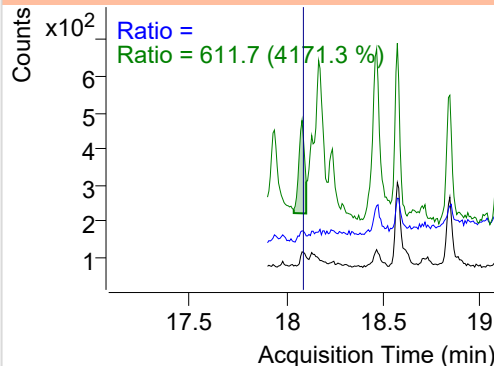
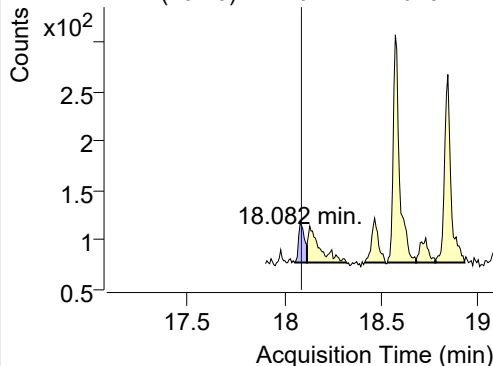


+ SIM (15.827-15.903 min, 15 scans) (**) 2211

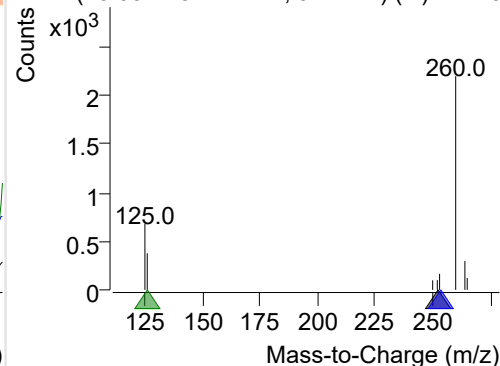
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-023.D

252.0, 253.0, 126.0



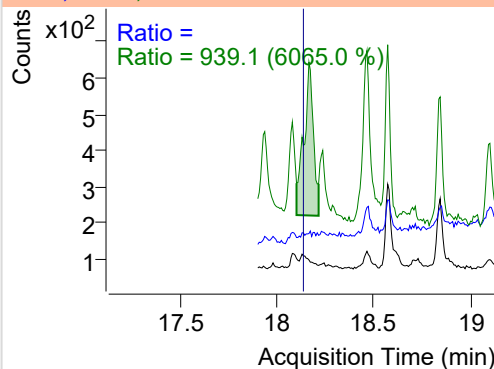
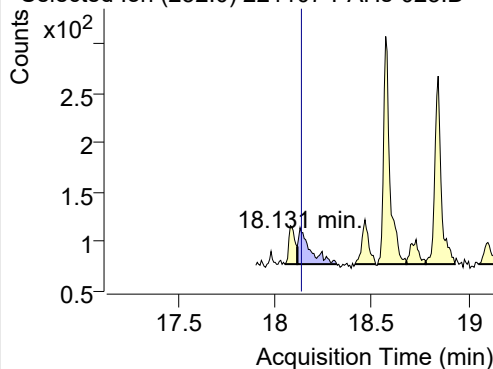
+ SIM (18.054-18.117 min, 9 scans) (**) 22110



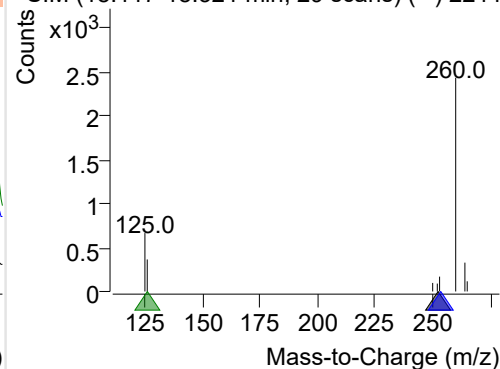
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-023.D

252.0, 253.0, 126.0

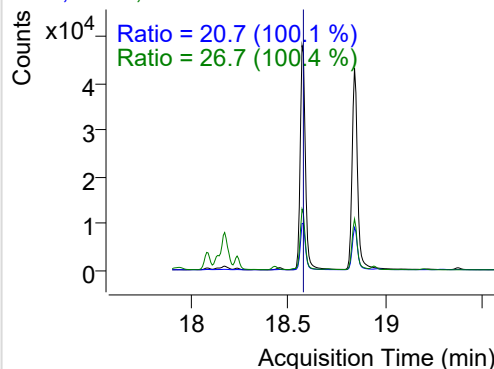
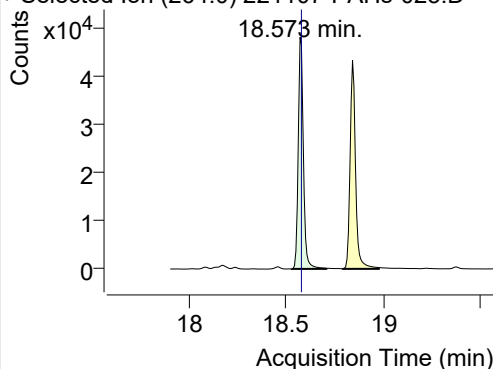


+ SIM (18.117-18.321 min, 29 scans) (**) 2211

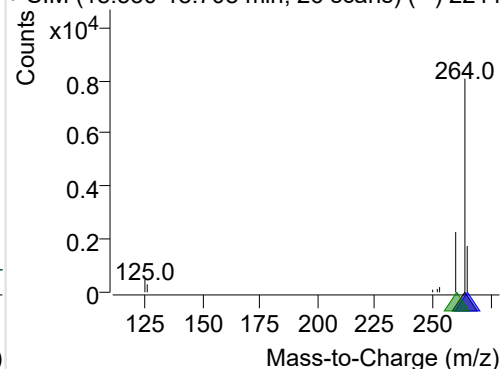
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-023.D

264.0, 265.0, 260.0

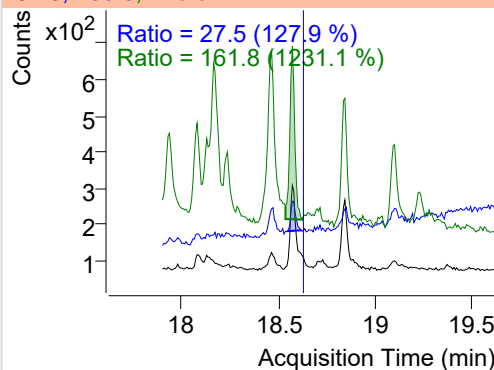
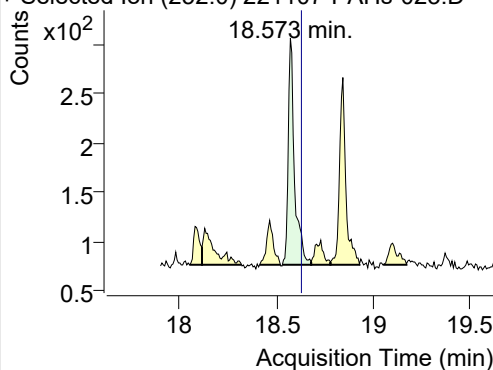


+ SIM (18.530-18.708 min, 26 scans) (**) 2211

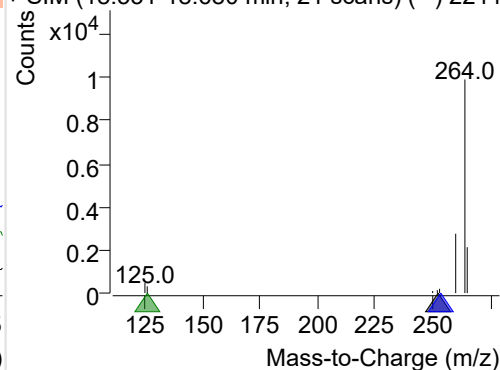
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-023.D

252.0, 253.0, 126.0

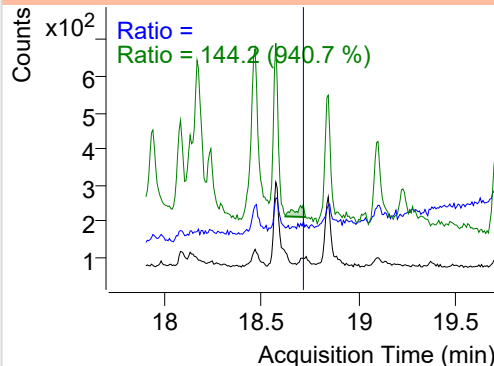
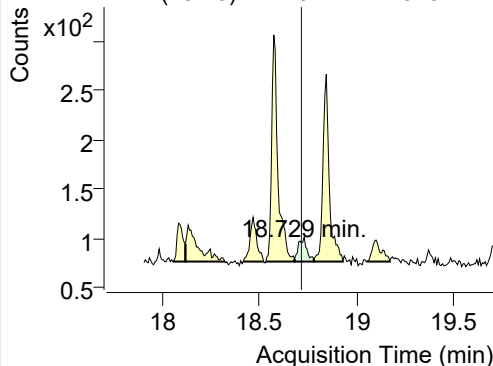


+ SIM (18.531-18.680 min, 21 scans) (**) 2211

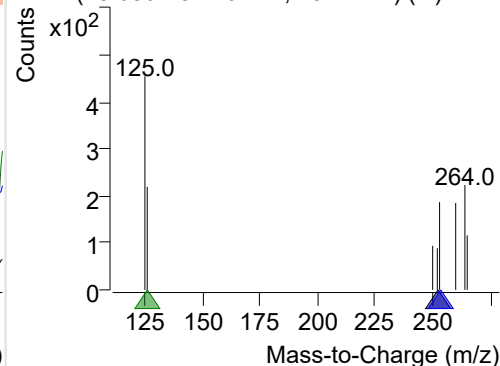
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-023.D

252.0, 253.0, 126.0

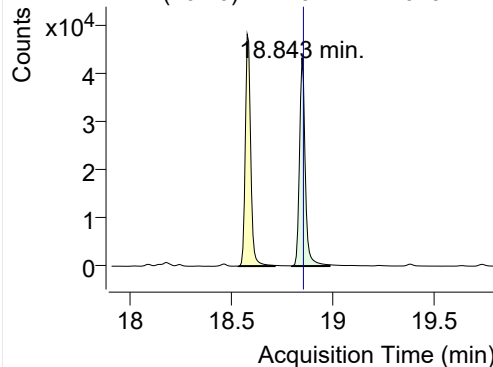


+ SIM (18.680-18.779 min, 15 scans) (**) 2211

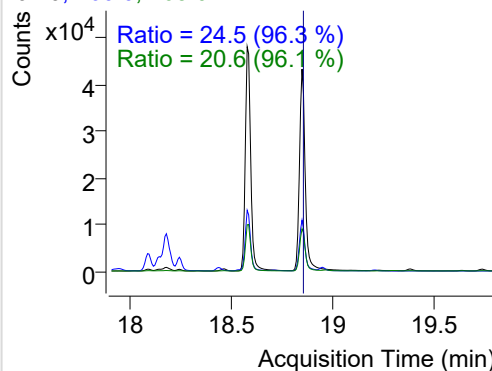


IS-D12-Perylene

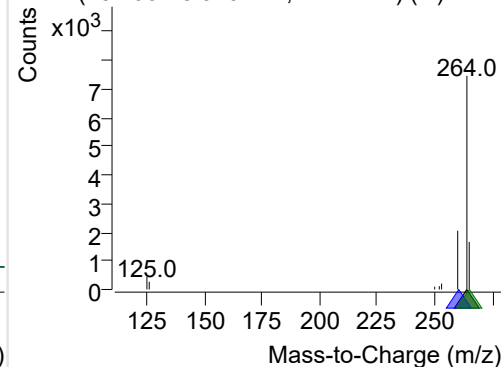
+ Selected Ion (264.0) 221107-PAHs-023.D



264.0, 260.0, 265.0

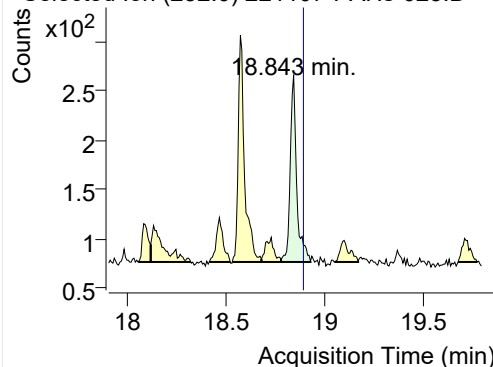


+ SIM (18.793-18.979 min, 27 scans) (**) 2211

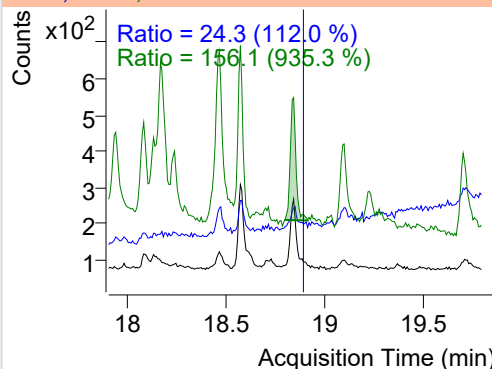


Perylene

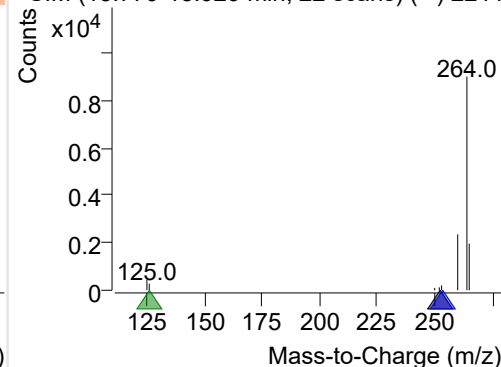
+ Selected Ion (252.0) 221107-PAHs-023.D



252.0, 253.0, 126.0

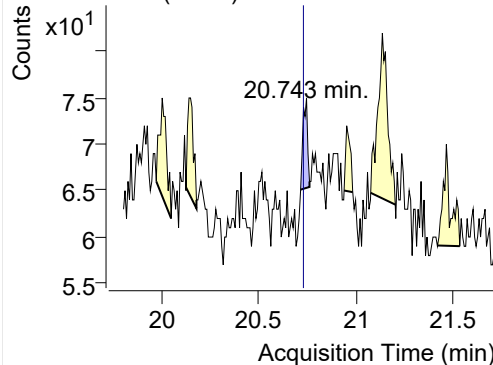


+ SIM (18.779-18.929 min, 22 scans) (**) 2211

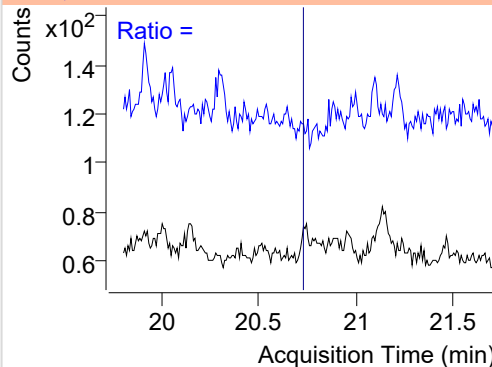


Indeno(1,2,3-c,d)pyrene

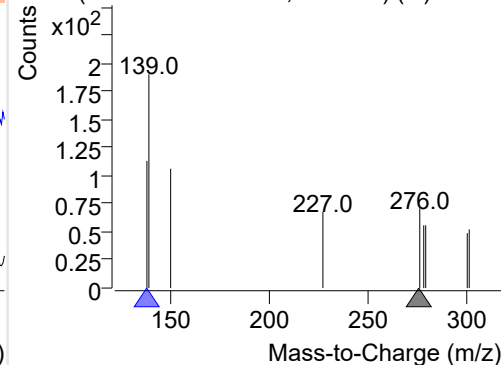
+ Selected Ion (276.0) 221107-PAHs-023.D



276.0, 138.0

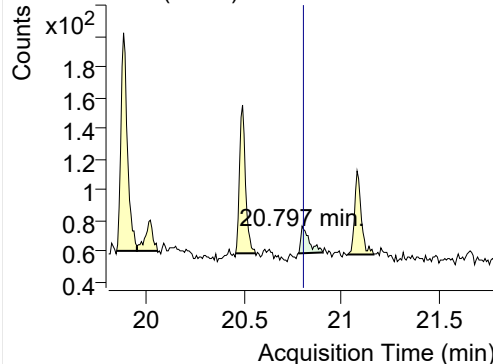


+ SIM (20.713-20.759 min, 6 scans) (**) 22110

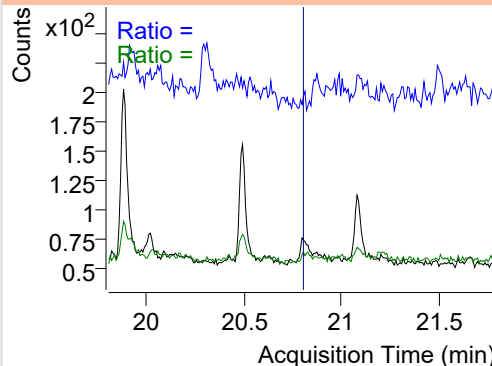


Dibenz(a,h)anthracene

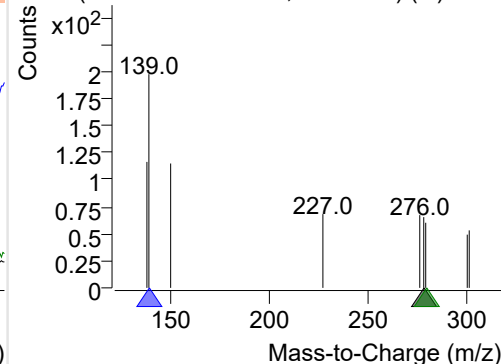
+ Selected Ion (278.0) 221107-PAHs-023.D



278.0, 139.0, 279.0



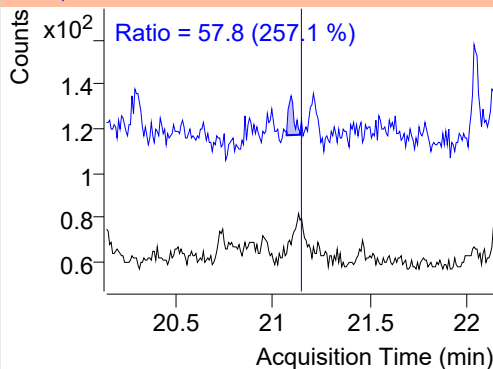
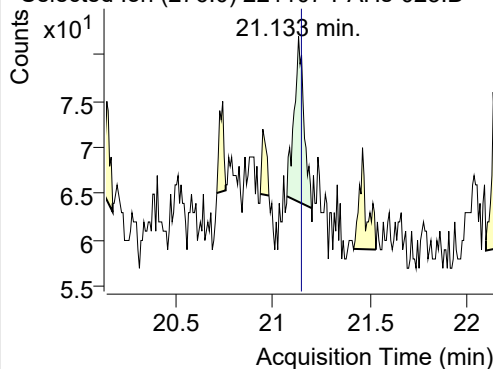
+ SIM (20.777-20.904 min, 17 scans) (**) 2211



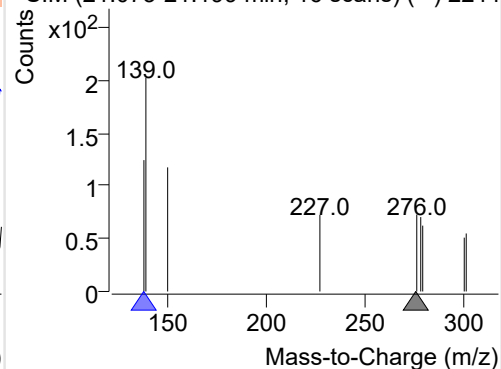
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-023.D

276.0, 138.0

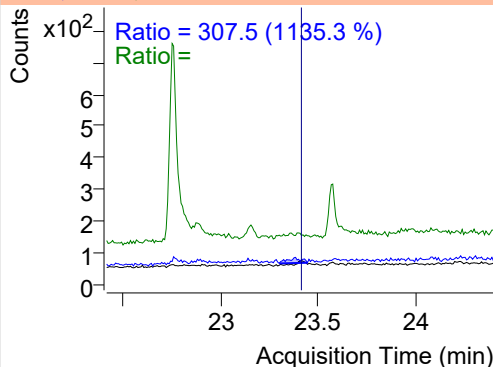
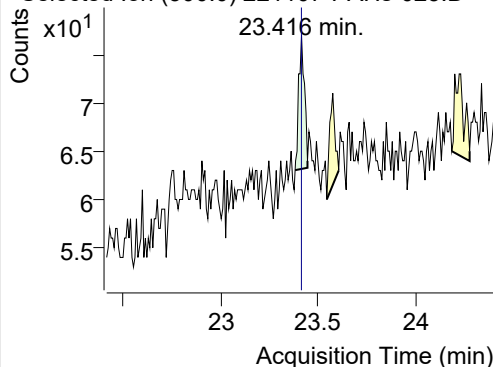


+ SIM (21.073-21.199 min, 16 scans) (**) 2211

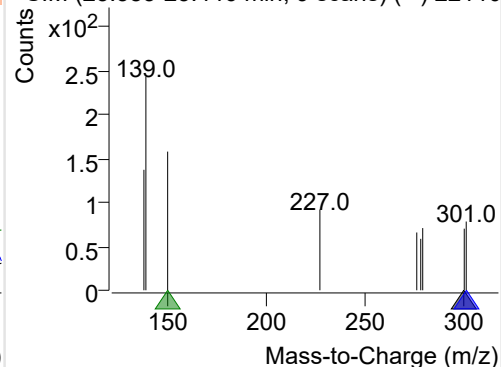
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-023.D

300.0, 301.0, 150.0



+ SIM (23.383-23.446 min, 9 scans) (**) 22110



Quantitative Analysis Sample Based Report

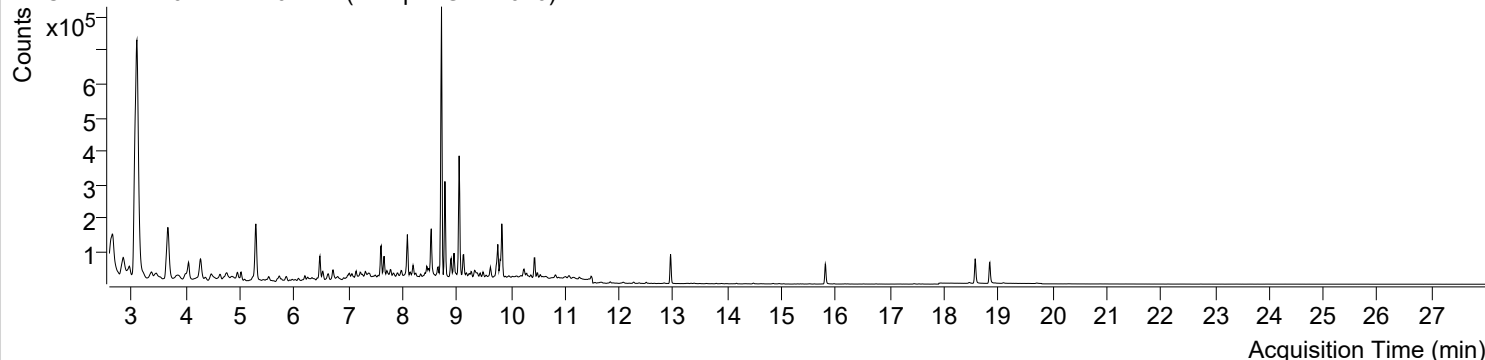


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 3:56:29	Data File	221107-PAHs-024.D
Type	Sample	Name	Sample-Gas-1026
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

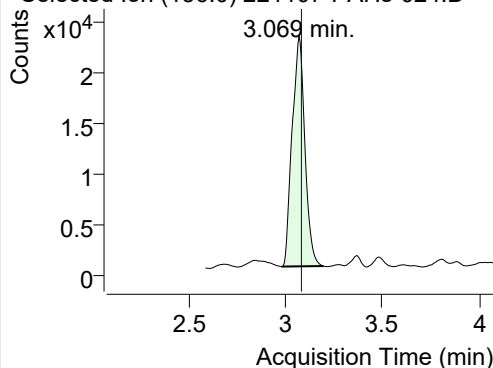
+ TIC SIM 221107-PAHs-024.D (Sample-Gas-1026)



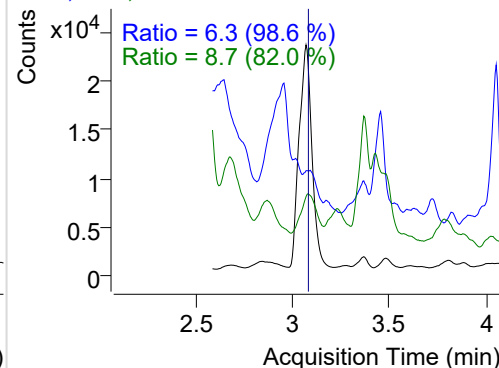
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	103587	22766.82	ND ng/ml	8.7
Naphthalene	3.096	128.0	2579155	557164.74	ND ng/ml	14.1
Acenaphthylene	6.244	152.0	3294	1854.75	ND ng/ml	231.5
IS-D10-Acenaphthene	6.475	164.0	66756	34108.97	ND ng/ml	89.7
Acenaphthene	6.534	154.0	9865	4541.31	ND ng/ml	119.8
LSS-D10-Fluorene	7.606	176.0	70498	39787.92	ND ng/ml	95.0
Fluorene	7.659	166.0	48105	27170.03	ND ng/ml	96.8
IS-D10-Phenanthrene	9.759	188.0	116665	74019.42	ND ng/ml	17.1
Phenanthrene	9.801	178.0	53036	32081.40	ND ng/ml	18.8
Anthracene	9.896	178.0	2661	1597.19	ND ng/ml	
Fluoranthene	12.499	202.0	3500	2238.22	ND ng/ml	18.3
LSS-D10-Pyrene	12.949	212.0	102679	64749.47	ND ng/ml	17.9
Pyrene	12.982	202.0	688	409.78	ND ng/ml	30.5
Benz(a)anthracene	15.751	228.0	182	90.89	ND ng/ml	22.2
IS-D12-Chrysene	15.806	240.0	78126	44841.62	ND ng/ml	18.5
Chrysene	15.854	228.0	334	122.91	ND ng/ml	17.2
Benzo(b)fluoranthene	18.132	252.0	44	26.12	ND ng/ml	87.9
Benzo(k)fluoranthene	18.132	252.0	44	26.12	ND ng/ml	87.9
SS-D12-Benzo(e)pyrene	18.573	264.0	82546	46869.22	ND ng/ml	30.7
Benzo(e)pyrene	18.573	252.0	775	305.63	ND ng/ml	93.5
Benzo(a)pyrene	18.715	252.0	53	32.96	ND ng/ml	
IS-D12-Perylene	18.843	264.0	80330	42147.90	ND ng/ml	24.9
Perylene	18.836	252.0	340	168.35	ND ng/ml	39.2
Indeno(1,2,3-c,d)pyrene	20.736	276.0	92	17.80	ND ng/ml	
Dibenz(a,h)anthracene	20.797	278.0	90	22.16	ND ng/ml	27.2
Benzo(g,h,i)perylene	21.141	276.0	32	15.48	ND ng/ml	
Coronene	23.416	300.0	59	16.50	ND ng/ml	

IS-D8-Naphthalene

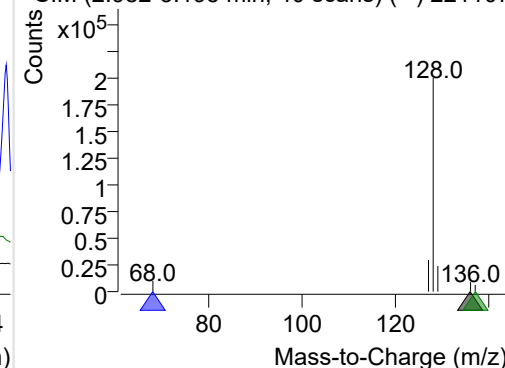
+ Selected Ion (136.0) 221107-PAHs-024.D



136.0, 68.0, 137.0

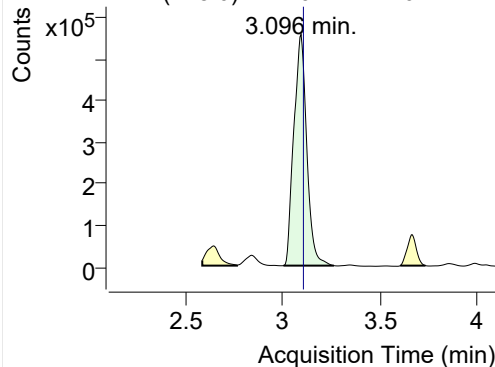


+ SIM (2.982-3.195 min, 40 scans) (**) 221107

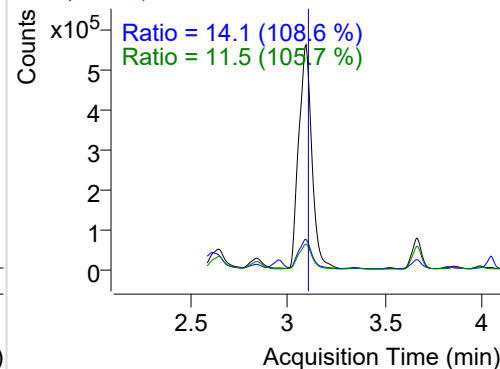


Naphthalene

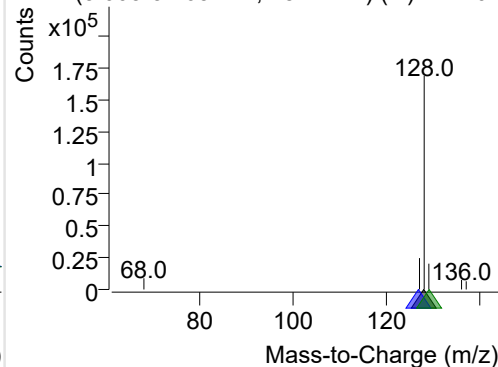
+ Selected Ion (128.0) 221107-PAHs-024.D



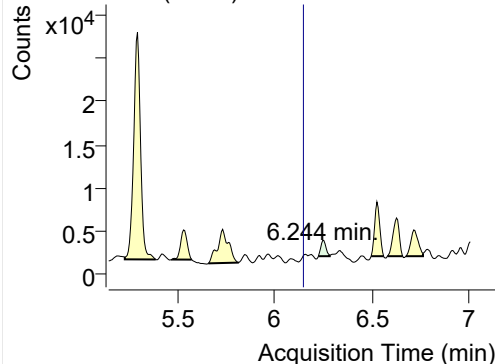
128.0, 127.0, 129.0



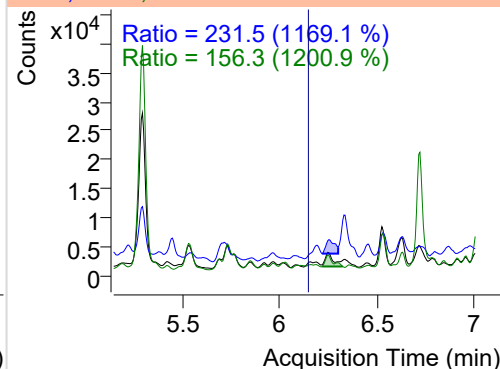
+ SIM (3.005-3.265 min, 48 scans) (**) 221107

**Acenaphthylene**

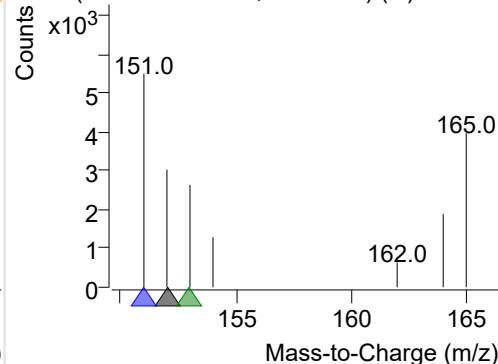
+ Selected Ion (152.0) 221107-PAHs-024.D



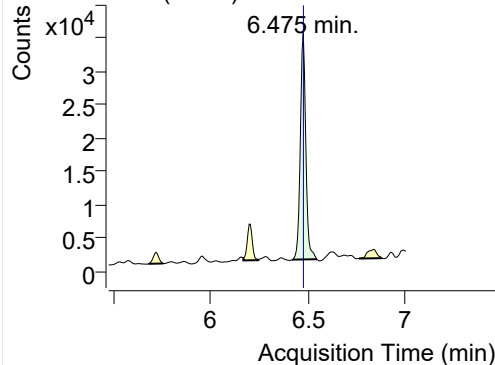
152.0, 151.0, 153.0



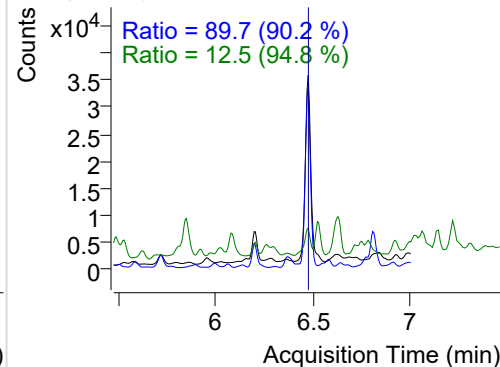
+ SIM (6.221-6.280 min, 10 scans) (**) 221107

**IS-D10-Acenaphthene**

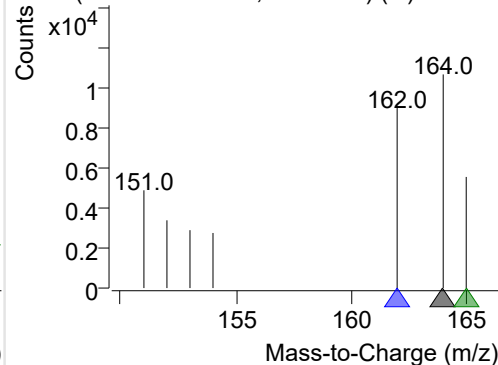
+ Selected Ion (164.0) 221107-PAHs-024.D



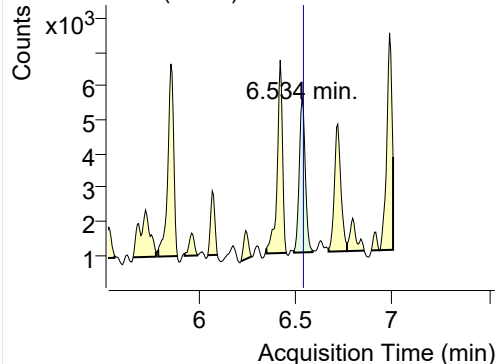
164.0, 162.0, 165.0



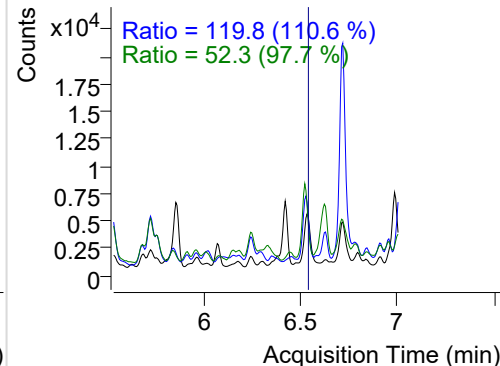
+ SIM (6.422-6.545 min, 21 scans) (**) 221107

**Acenaphthene**

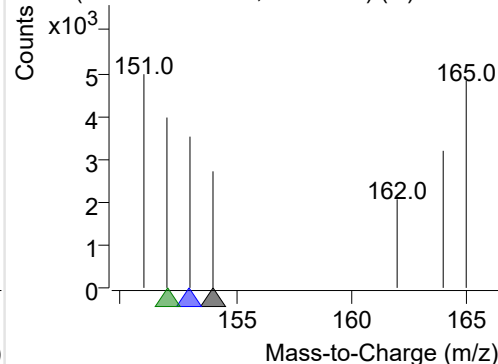
+ Selected Ion (154.0) 221107-PAHs-024.D



154.0, 153.0, 152.0

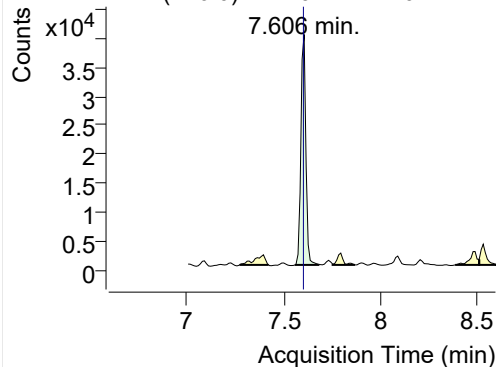


+ SIM (6.493-6.587 min, 17 scans) (**) 221107

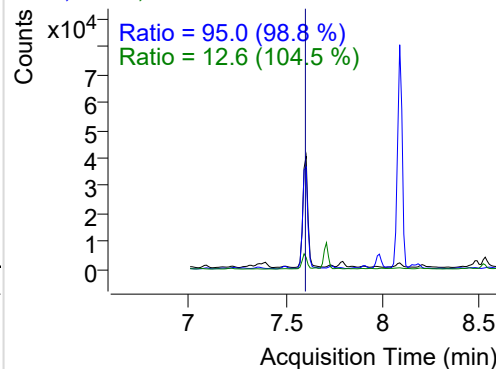


LSS-D10-Fluorene

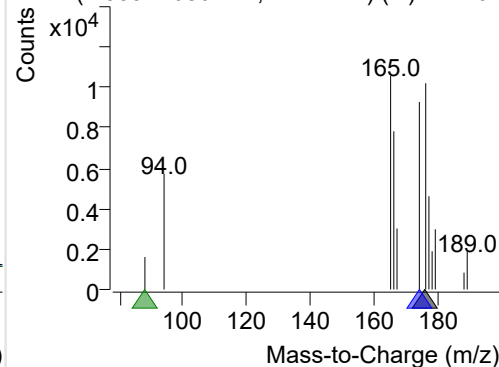
+ Selected Ion (176.0) 221107-PAHs-024.D



176.0, 174.0, 88.0

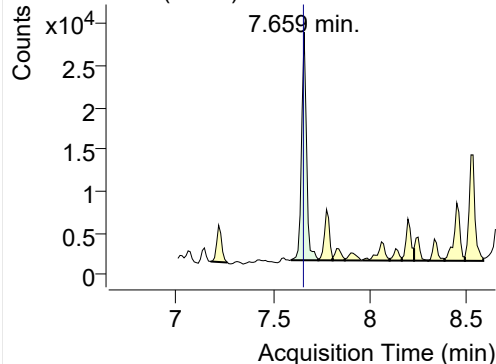


+ SIM (7.559-7.680 min, 12 scans) (**) 221107

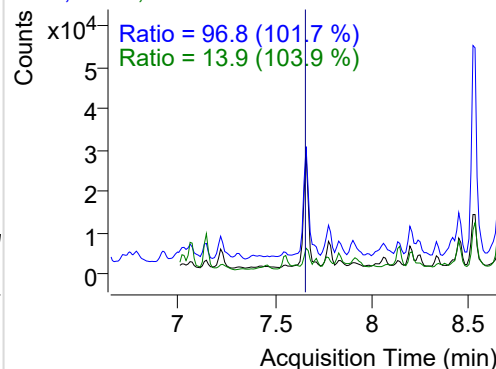


Fluorene

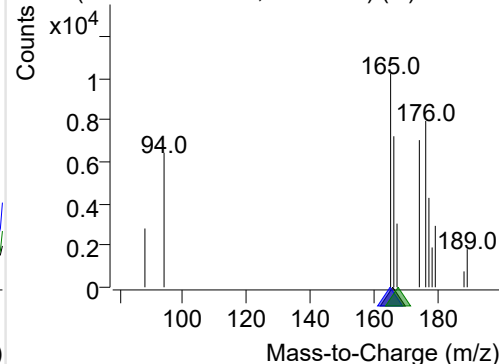
+ Selected Ion (166.0) 221107-PAHs-024.D



166.0, 165.0, 167.0

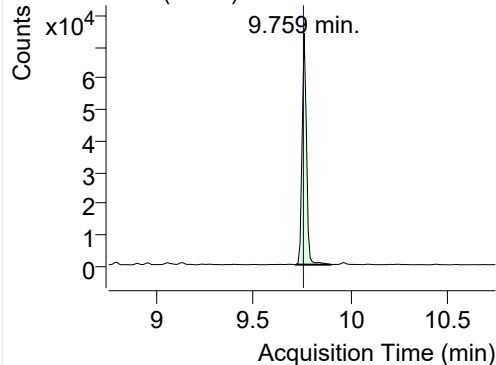


+ SIM (7.596-7.732 min, 14 scans) (**) 221107

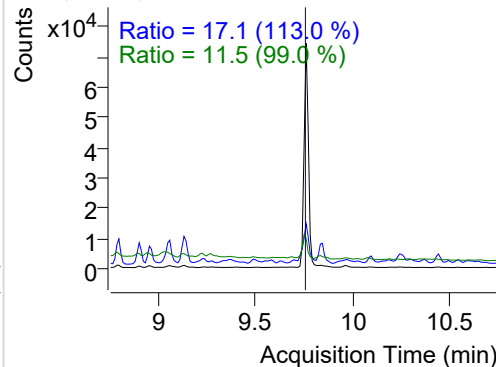


IS-D10-Phenanthrene

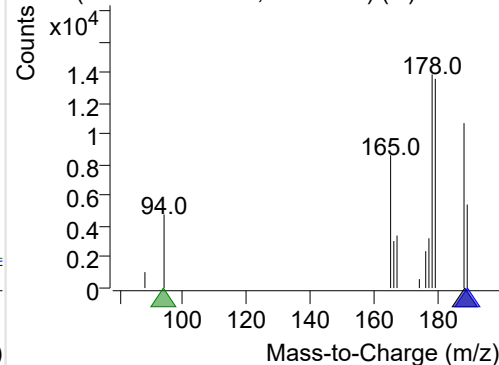
+ Selected Ion (188.0) 221107-PAHs-024.D



188.0, 189.0, 94.0

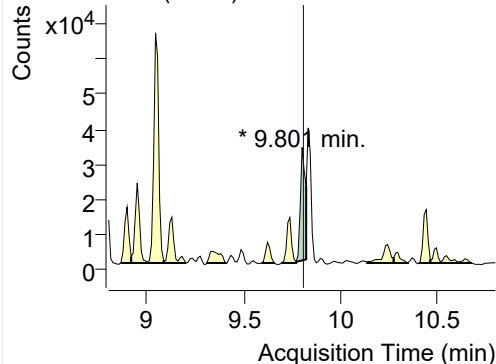


+ SIM (9.717-9.896 min, 18 scans) (**) 221107

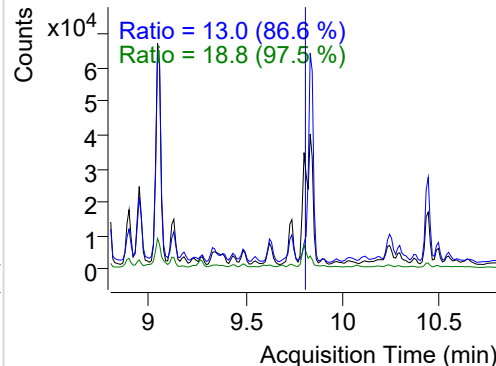


Phenanthrene

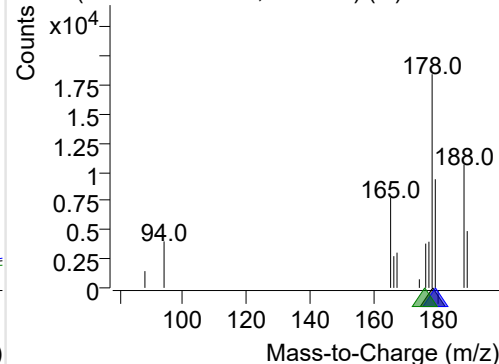
+ Selected Ion (178.0) 221107-PAHs-024.D



178.0, 179.0, 176.0

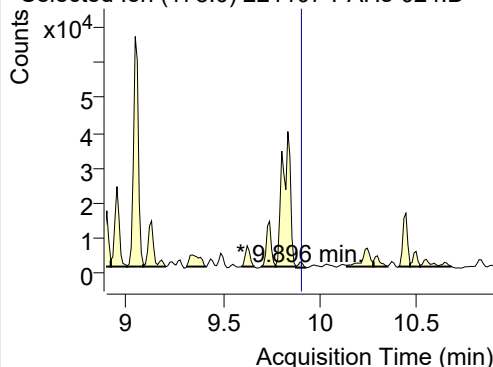


+ SIM (9.769-9.822 min, 6 scans) (**) 221107-I

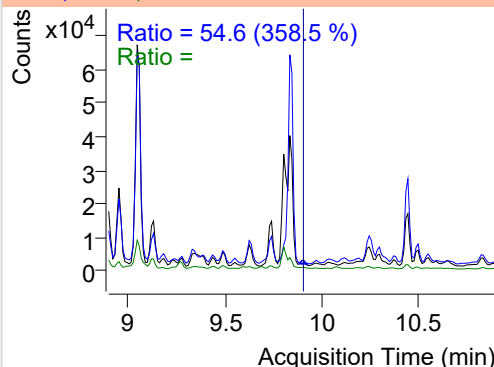


Anthracene

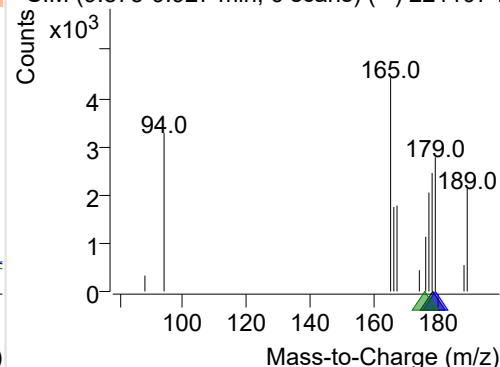
+ Selected Ion (178.0) 221107-PAHs-024.D



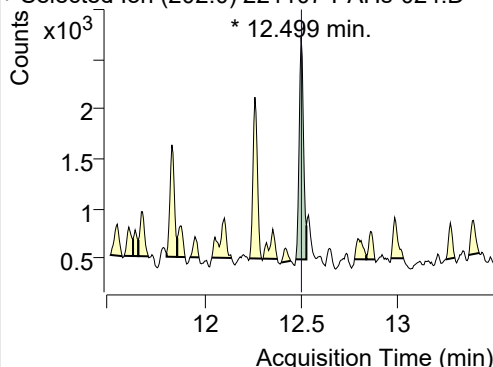
178.0, 179.0, 176.0



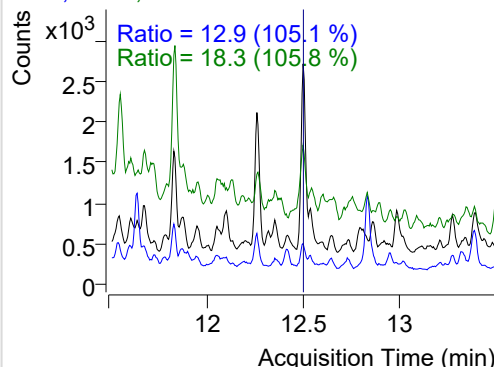
+ SIM (9.875-9.927 min, 6 scans) (**) 221107-I

**Fluoranthene**

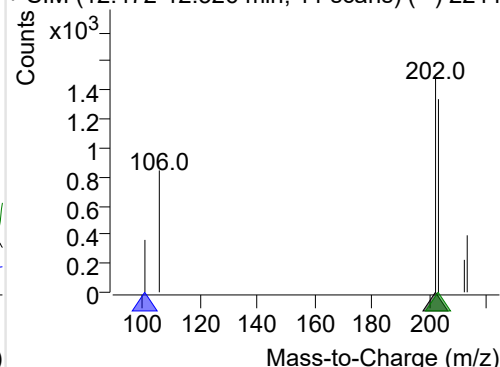
+ Selected Ion (202.0) 221107-PAHs-024.D



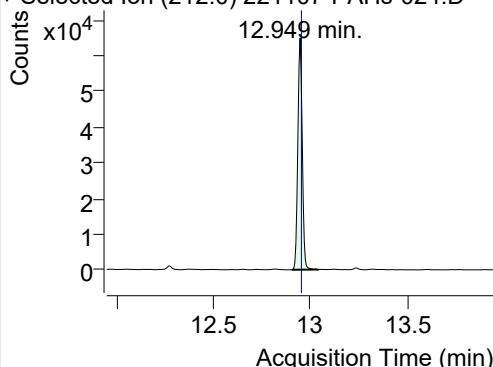
202.0, 101.0, 203.0



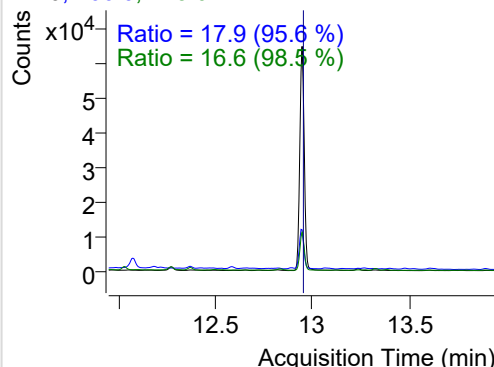
+ SIM (12.472-12.526 min, 11 scans) (**) 2211

**LSS-D10-Pyrene**

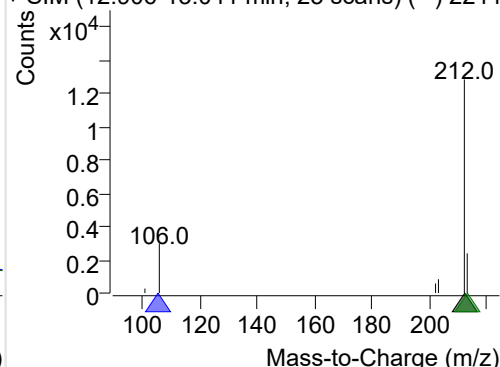
+ Selected Ion (212.0) 221107-PAHs-024.D



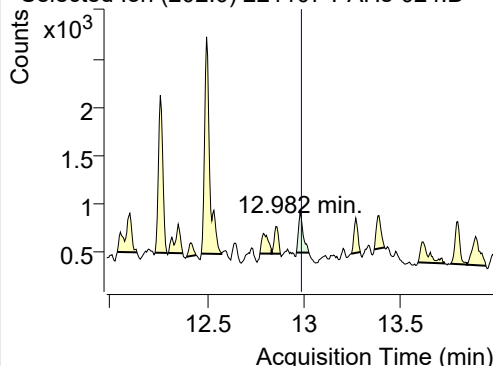
212.0, 106.0, 213.0



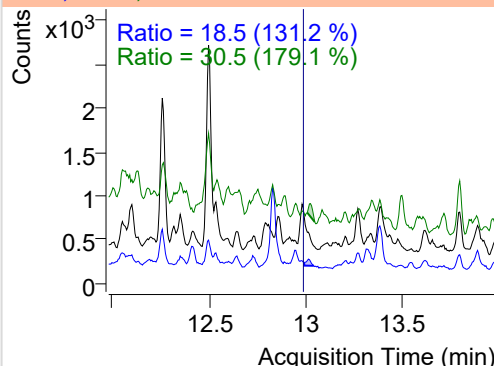
+ SIM (12.906-13.041 min, 25 scans) (**) 2211

**Pyrene**

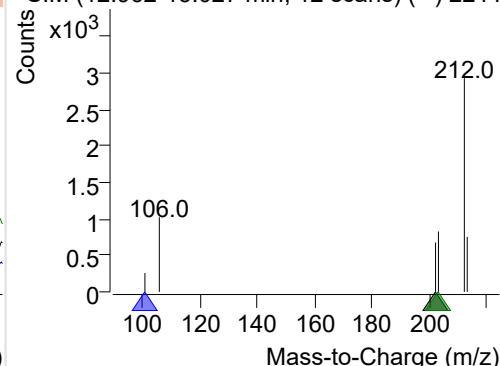
+ Selected Ion (202.0) 221107-PAHs-024.D



202.0, 101.0, 203.0



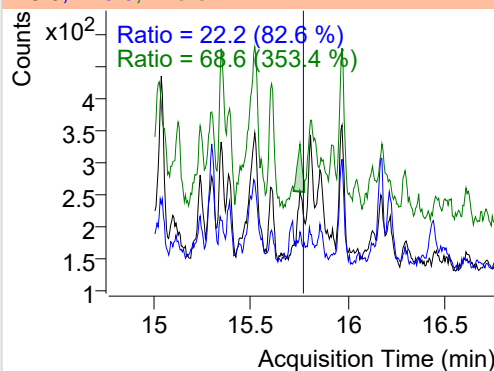
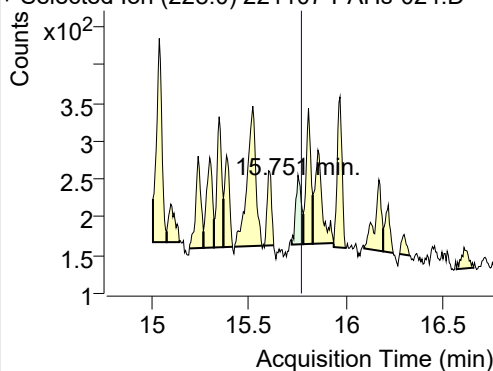
+ SIM (12.962-13.027 min, 12 scans) (**) 2211



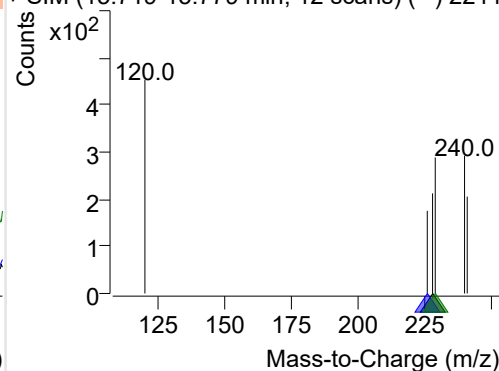
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-024.D

228.0, 226.0, 229.0

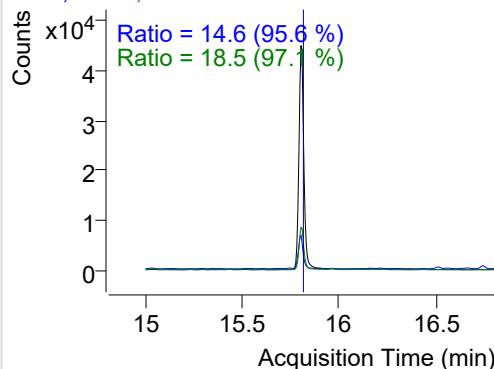
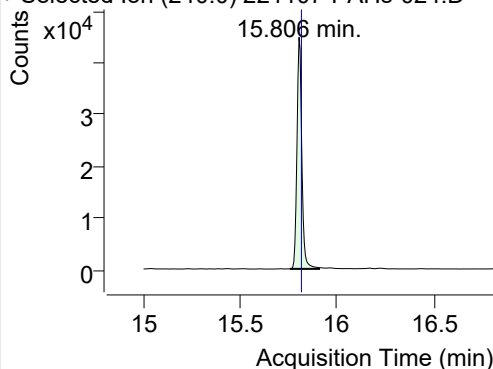


+ SIM (15.719-15.779 min, 12 scans) (**) 2211

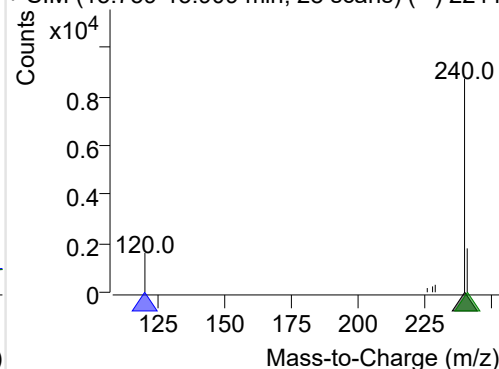
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-024.D

240.0, 120.0, 241.0

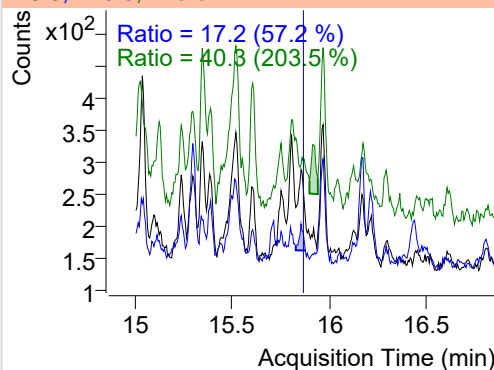
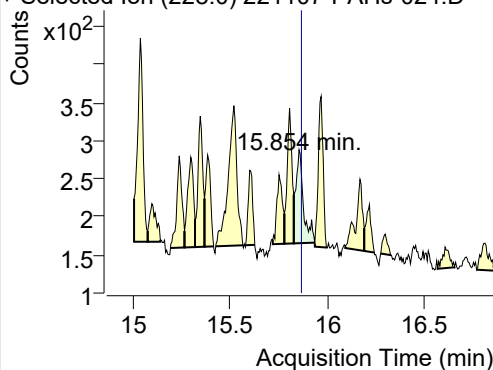


+ SIM (15.759-15.909 min, 28 scans) (**) 2211

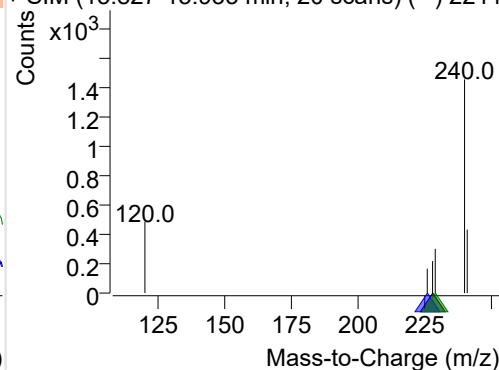
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-024.D

228.0, 226.0, 229.0

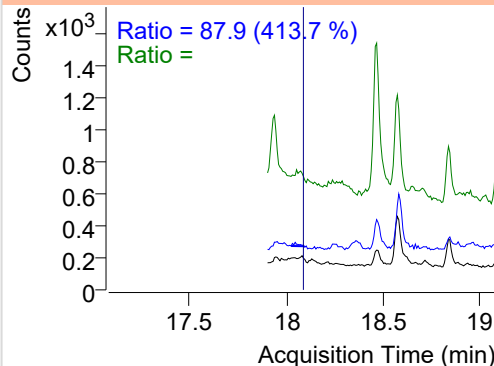
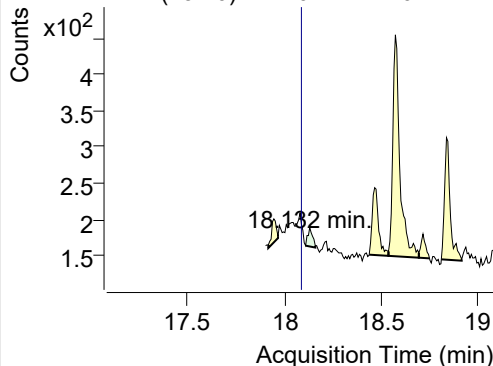


+ SIM (15.827-15.935 min, 20 scans) (**) 2211

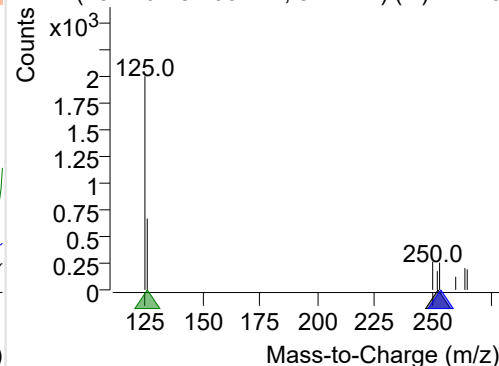
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-024.D

252.0, 253.0, 126.0



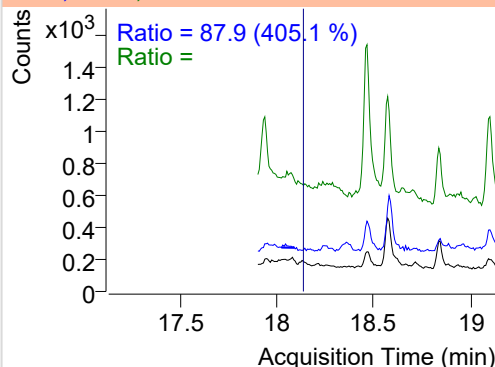
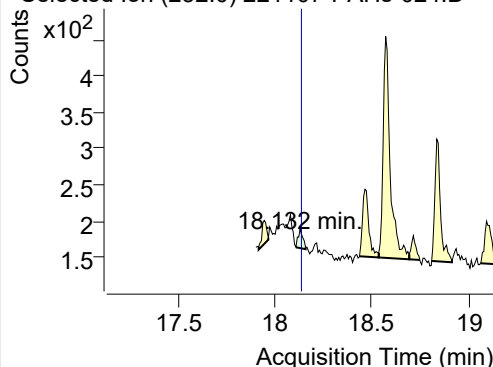
+ SIM (18.110-18.160 min, 8 scans) (**) 22110



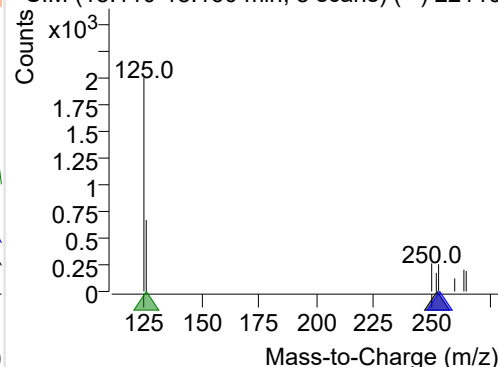
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-024.D

252.0, 253.0, 126.0

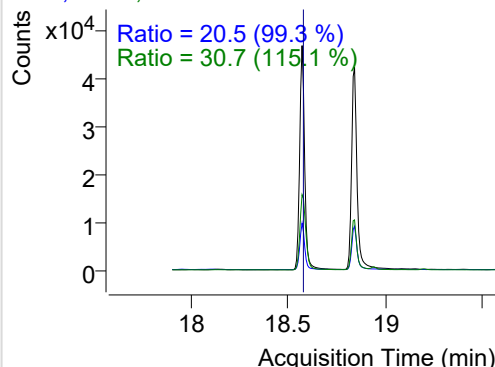
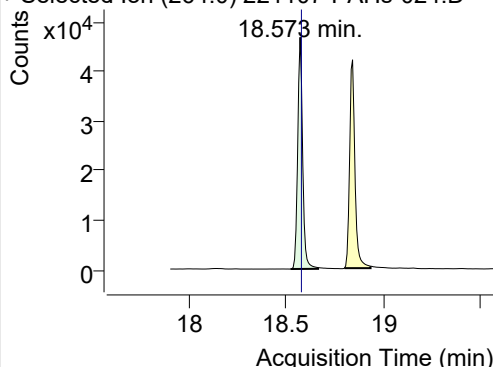


+ SIM (18.110-18.160 min, 8 scans) (**) 22110

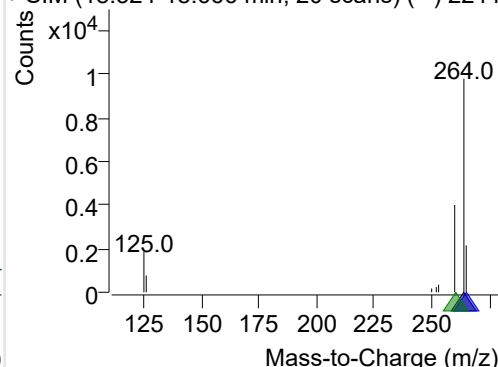
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-024.D

264.0, 265.0, 260.0

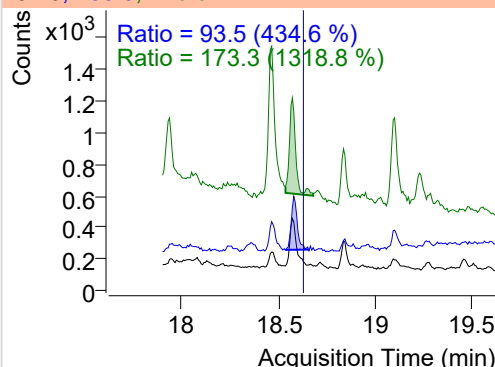
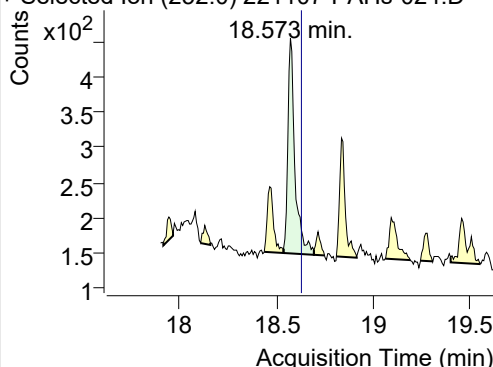


+ SIM (18.524-18.666 min, 20 scans) (**) 2211

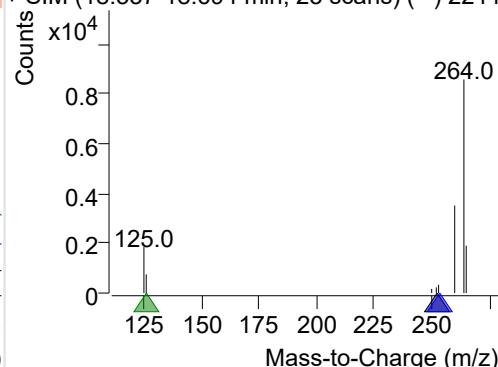
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-024.D

252.0, 253.0, 126.0

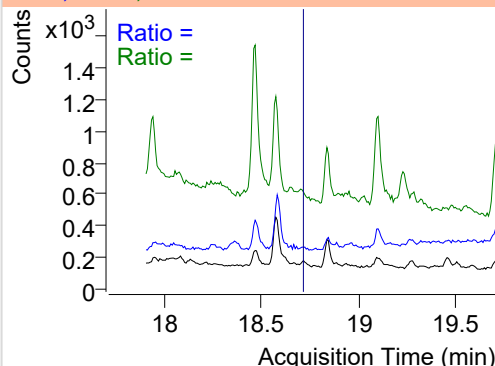
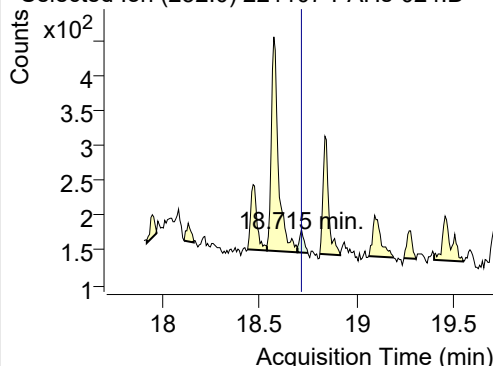


+ SIM (18.537-18.694 min, 23 scans) (**) 2211

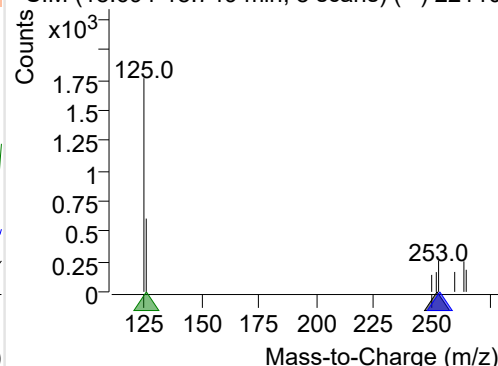
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-024.D

252.0, 253.0, 126.0

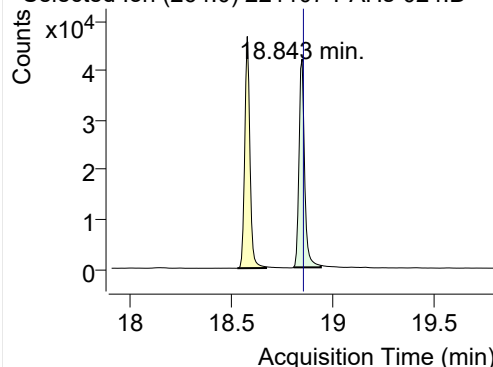


+ SIM (18.694-18.749 min, 8 scans) (**) 22110

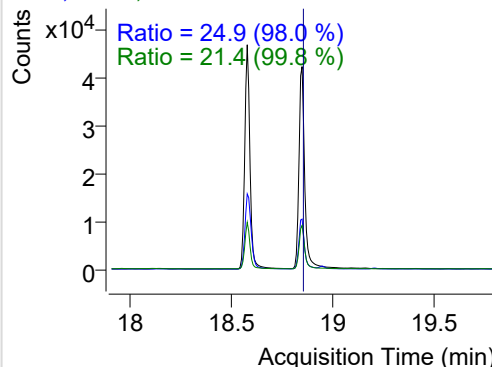


IS-D12-Perylene

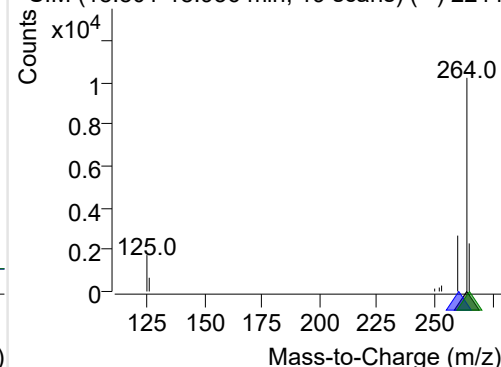
+ Selected Ion (264.0) 221107-PAHs-024.D



264.0, 260.0, 265.0

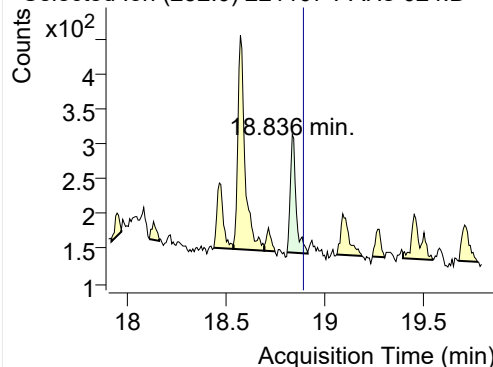


+ SIM (18.801-18.936 min, 19 scans) (**) 2211

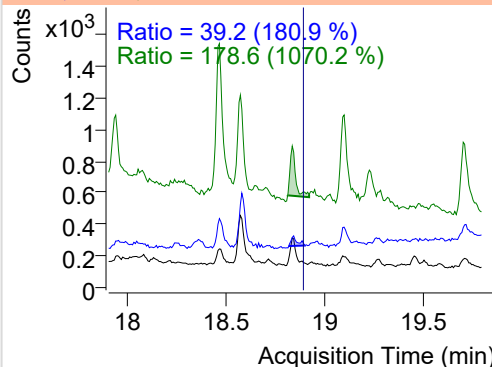


Perylene

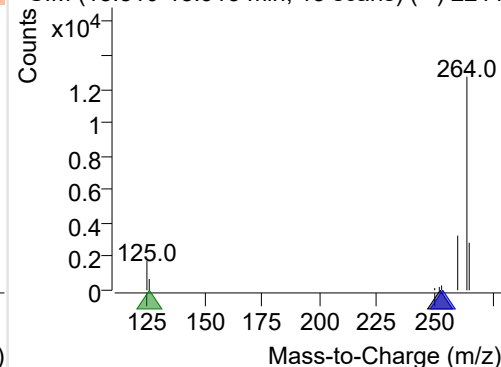
+ Selected Ion (252.0) 221107-PAHs-024.D



252.0, 253.0, 126.0

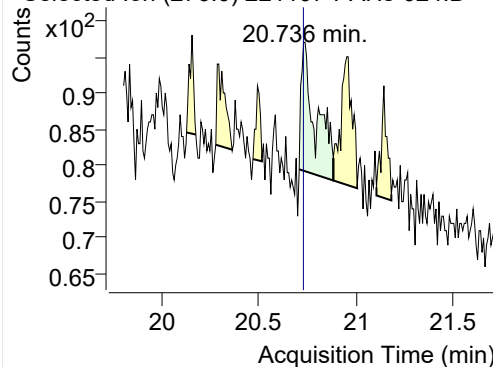


+ SIM (18.810-18.915 min, 15 scans) (**) 2211

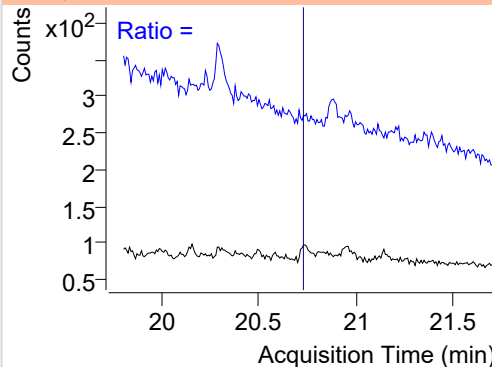


Indeno(1,2,3-c,d)pyrene

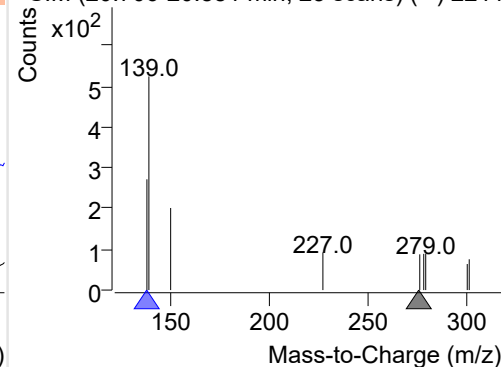
+ Selected Ion (276.0) 221107-PAHs-024.D



276.0, 138.0

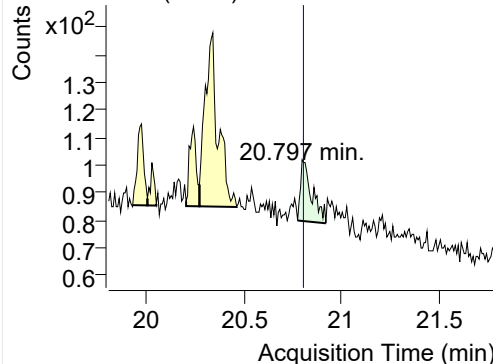


+ SIM (20.706-20.881 min, 23 scans) (**) 2211

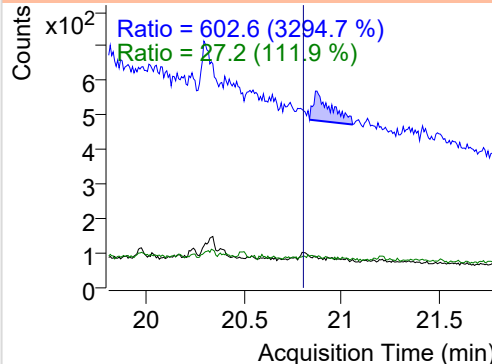


Dibenz(a,h)anthracene

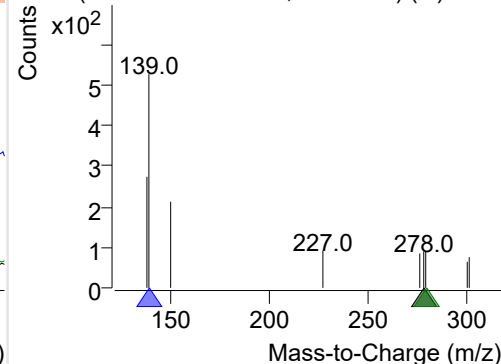
+ Selected Ion (278.0) 221107-PAHs-024.D



278.0, 139.0, 279.0



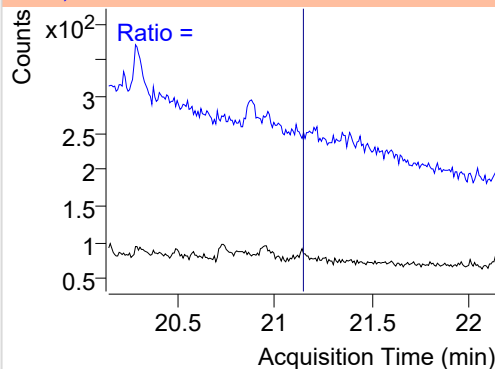
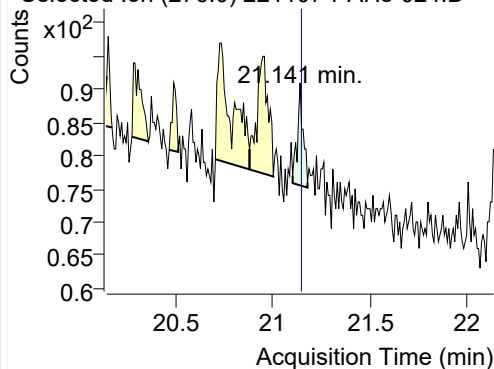
+ SIM (20.774-20.919 min, 19 scans) (**) 2211



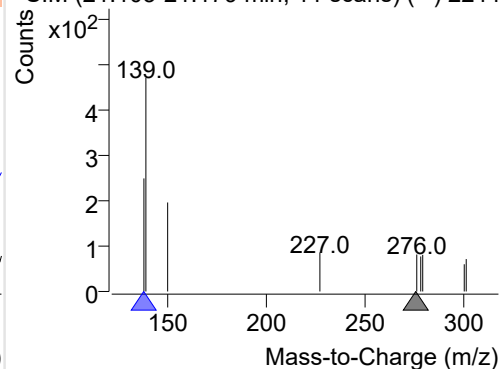
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-024.D

276.0, 138.0

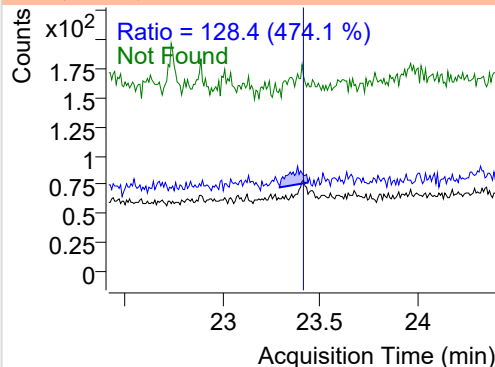
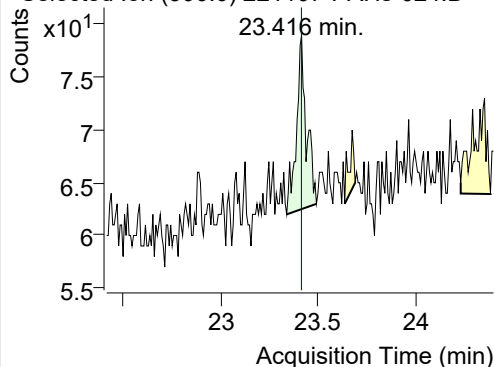


+ SIM (21.103-21.179 min, 11 scans) (**) 2211

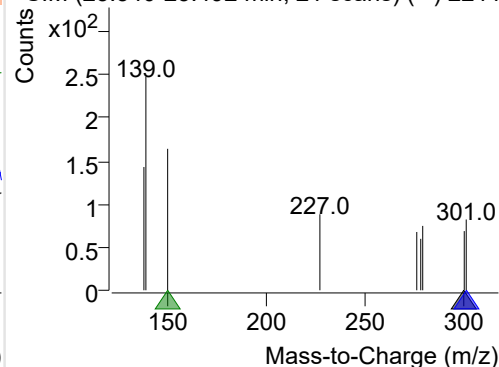
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-024.D

300.0, 301.0, 150.0



+ SIM (23.340-23.492 min, 21 scans) (**) 2211



Quantitative Analysis Sample Based Report

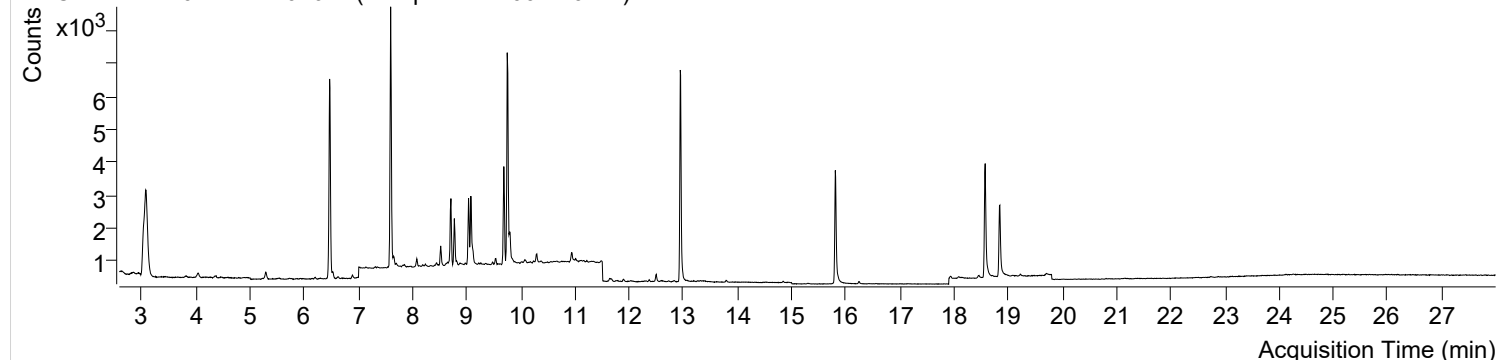


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 4:58:35	Data File	221107-PAHs-026.D
Type	Sample	Name	Sample-PM-1002-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

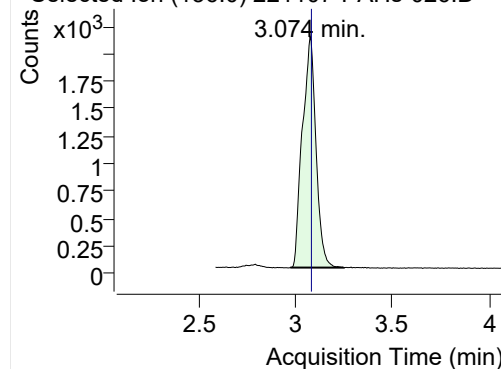
+ TIC SIM 221107-PAHs-026.D (Sample-PM-1002-10DIL)



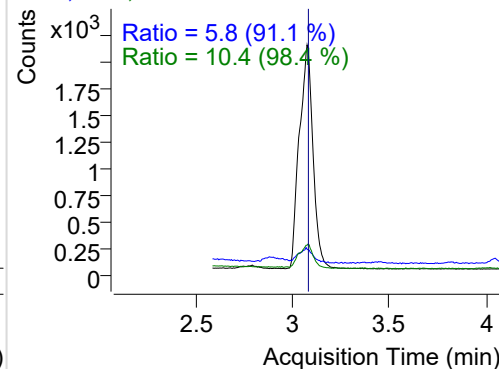
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	10188	2096.55	ND ng/ml	10.4
Naphthalene	3.101	128.0	1154	234.24	ND ng/ml	12.5
Acenaphthylene	6.138	152.0	32	11.86	ND ng/ml	42.4
IS-D10-Acenaphthene	6.469	164.0	5371	2847.04	ND ng/ml	99.2
Acenaphthene	6.534	154.0	89	47.03	ND ng/ml	132.6
LSS-D10-Fluorene	7.596	176.0	5960	3490.54	ND ng/ml	95.3
Fluorene	7.648	166.0	219	108.37	ND ng/ml	94.7
IS-D10-Phenanthrene	9.748	188.0	9343	4993.24	ND ng/ml	14.9
Phenanthrene	9.801	178.0	983	522.91	ND ng/ml	19.8
Anthracene	9.801	178.0	983	522.91	ND ng/ml	19.8
Fluoranthene	12.499	202.0	264	156.25	ND ng/ml	26.0
LSS-D10-Pyrene	12.944	212.0	8132	4742.94	ND ng/ml	17.8
Pyrene	12.976	202.0	293	153.93	ND ng/ml	24.8
Benz(a)anthracene	15.757	228.0	25	14.20	ND ng/ml	83.5
IS-D12-Chrysene	15.806	240.0	5075	2576.44	ND ng/ml	18.3
Chrysene	15.860	228.0	109	35.70	ND ng/ml	27.2
Benzo(b)fluoranthene	18.082	252.0	88	28.69	ND ng/ml	
Benzo(k)fluoranthene	18.082	252.0	88	28.69	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	4875	2322.43	ND ng/ml	26.3
Benzo(e)pyrene	18.616	252.0	68	26.69	ND ng/ml	
Benzo(a)pyrene	18.708	252.0	16	7.69	ND ng/ml	
IS-D12-Perylene	18.843	264.0	3294	1477.47	ND ng/ml	25.8
Perylene	18.836	252.0	18	10.69	ND ng/ml	
Indeno(1,2,3-c,d)pytene	20.736	276.0	9	6.26	ND ng/ml	
Dibenz(a,h)anthracene	20.805	278.0	16	5.74	ND ng/ml	
Benzo(g,h,i)perylene	21.148	276.0	38	13.09	ND ng/ml	15.7
Coronene	23.408	300.0	20	8.00	ND ng/ml	

IS-D8-Naphthalene

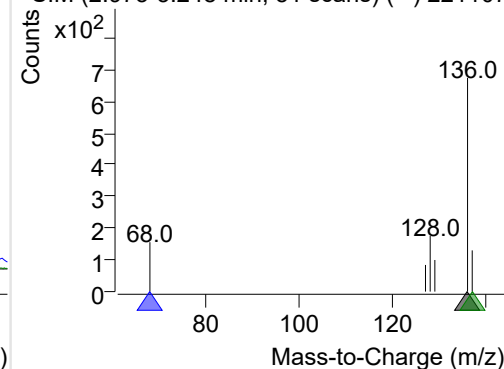
+ Selected Ion (136.0) 221107-PAHs-026.D



136.0, 68.0, 137.0

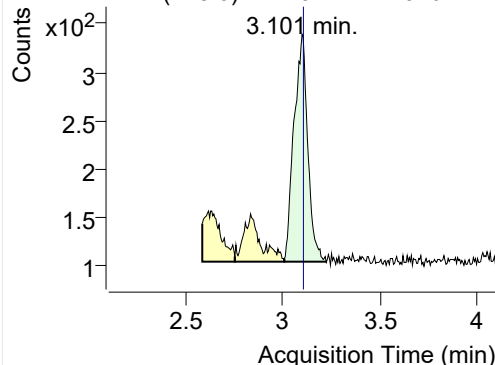


+ SIM (2.973-3.248 min, 51 scans) (**) 221107

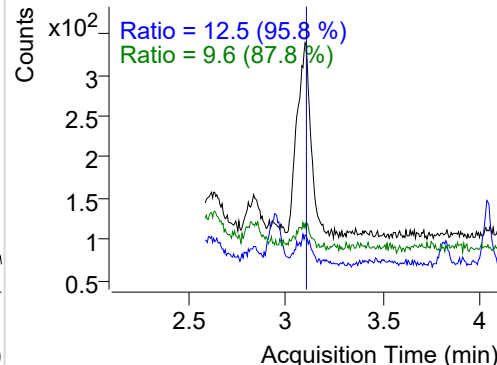


Naphthalene

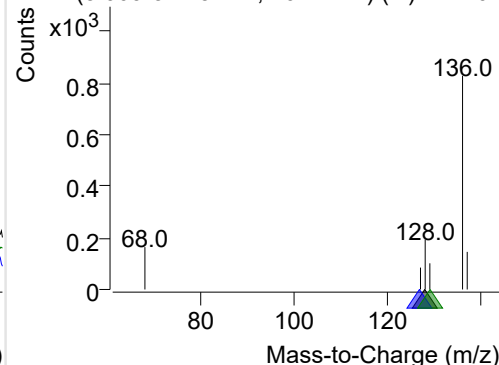
+ Selected Ion (128.0) 221107-PAHs-026.D



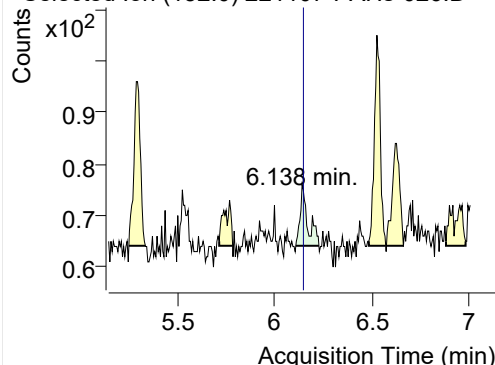
128.0, 127.0, 129.0



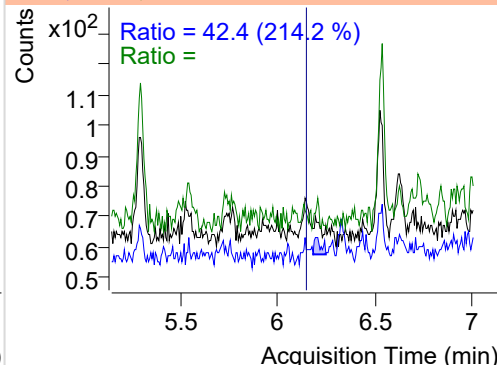
+ SIM (3.009-3.225 min, 40 scans) (**) 221107

**Acenaphthylene**

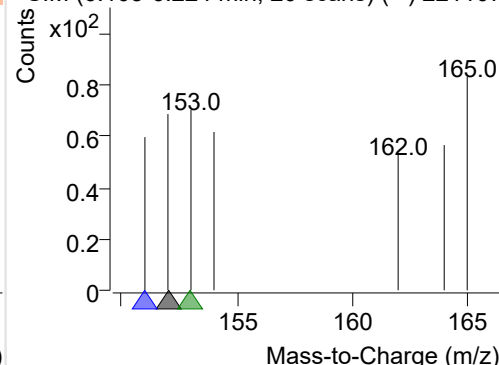
+ Selected Ion (152.0) 221107-PAHs-026.D



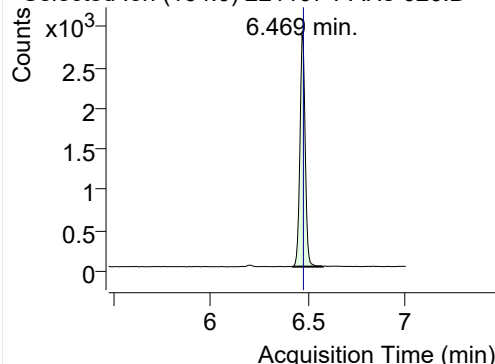
152.0, 151.0, 153.0



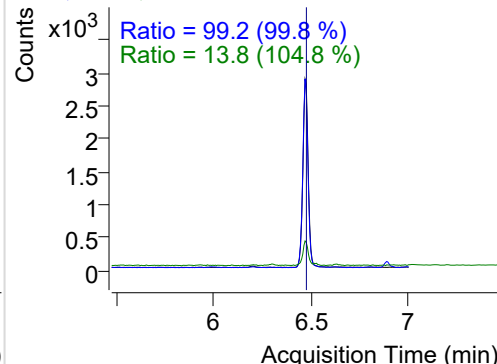
+ SIM (6.105-6.224 min, 20 scans) (**) 221107

**IS-D10-Acenaphthene**

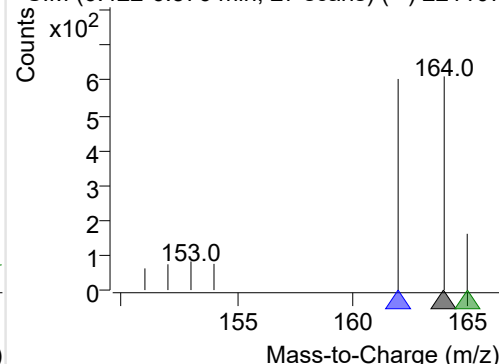
+ Selected Ion (164.0) 221107-PAHs-026.D



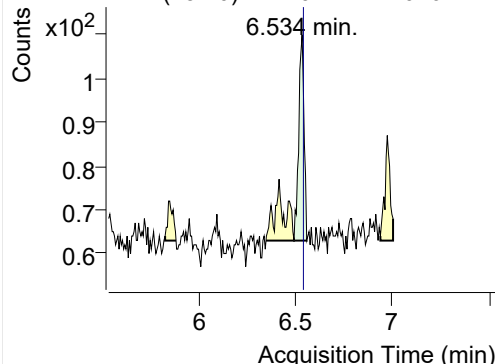
164.0, 162.0, 165.0



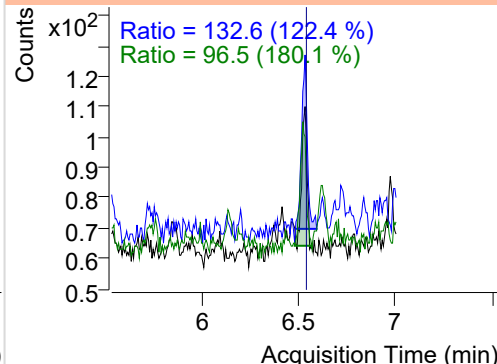
+ SIM (6.422-6.576 min, 27 scans) (**) 221107

**Acenaphthene**

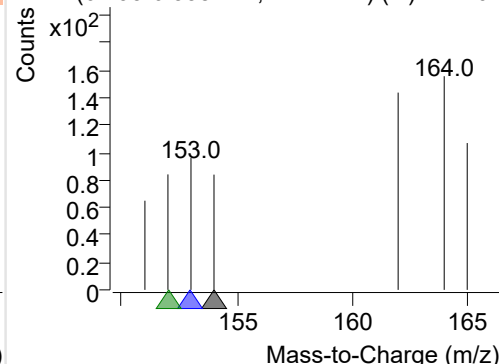
+ Selected Ion (154.0) 221107-PAHs-026.D



154.0, 153.0, 152.0

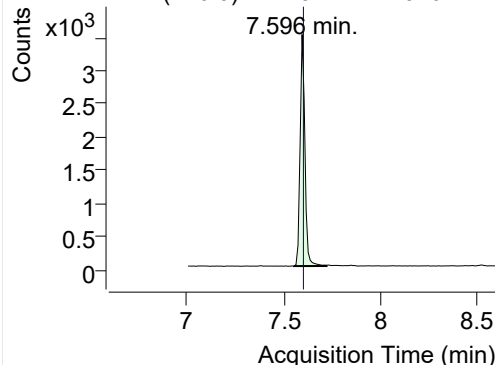


+ SIM (6.493-6.558 min, 12 scans) (**) 221107

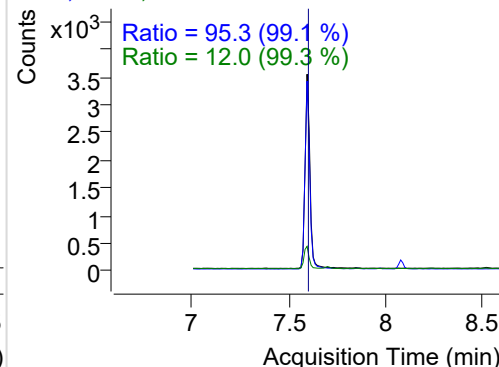


LSS-D10-Fluorene

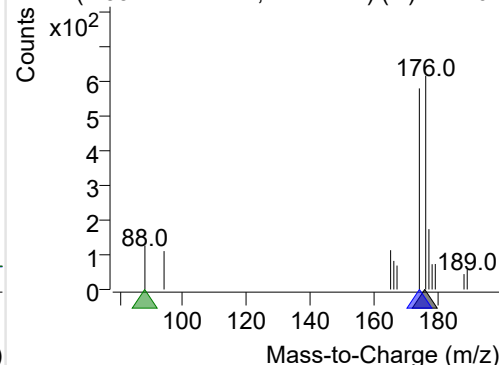
+ Selected Ion (176.0) 221107-PAHs-026.D



176.0, 174.0, 88.0

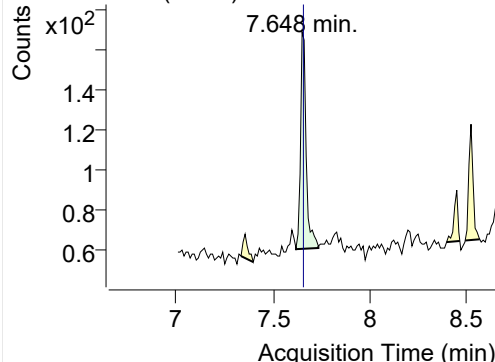


+ SIM (7.554-7.722 min, 17 scans) (**) 221107

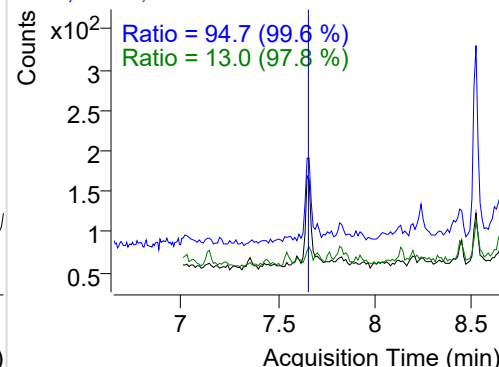


Fluorene

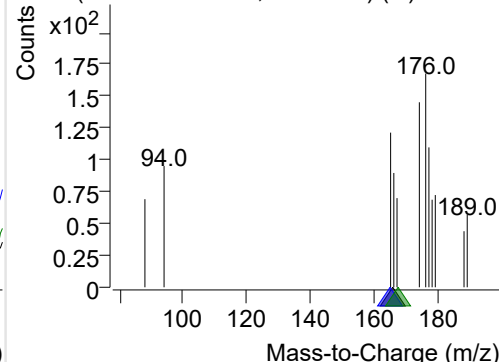
+ Selected Ion (166.0) 221107-PAHs-026.D



166.0, 165.0, 167.0

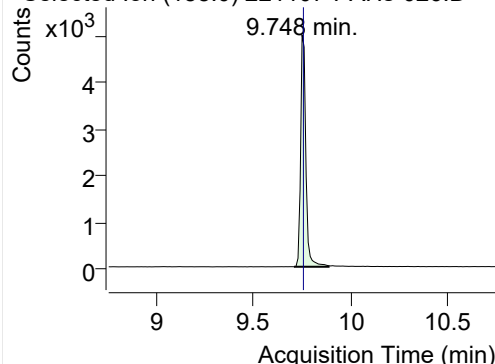


+ SIM (7.617-7.732 min, 12 scans) (**) 221107

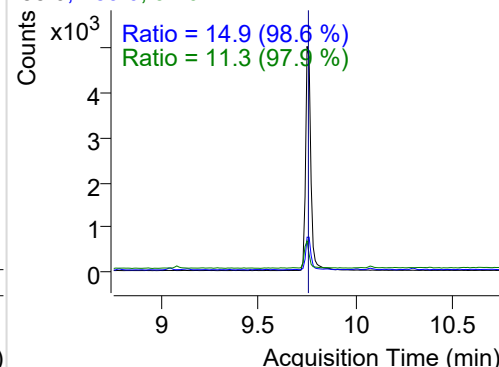


IS-D10-Phenanthrene

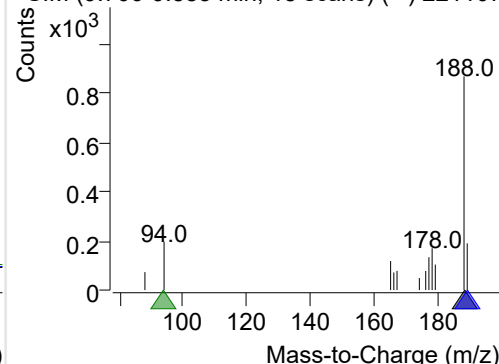
+ Selected Ion (188.0) 221107-PAHs-026.D



188.0, 189.0, 94.0

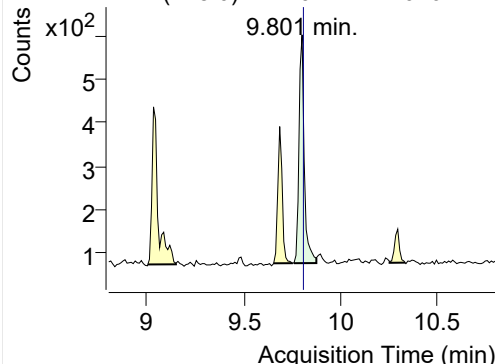


+ SIM (9.706-9.885 min, 18 scans) (**) 221107

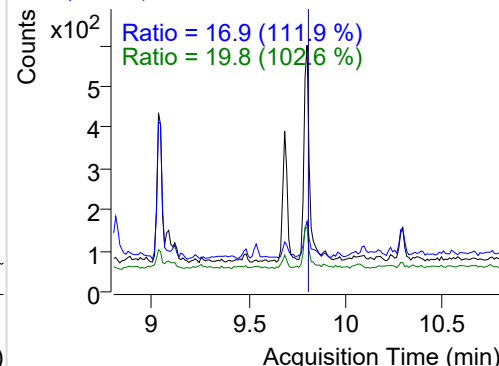


Phenanthrene

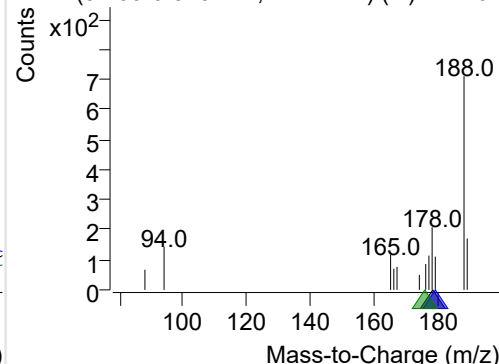
+ Selected Ion (178.0) 221107-PAHs-026.D



178.0, 179.0, 176.0

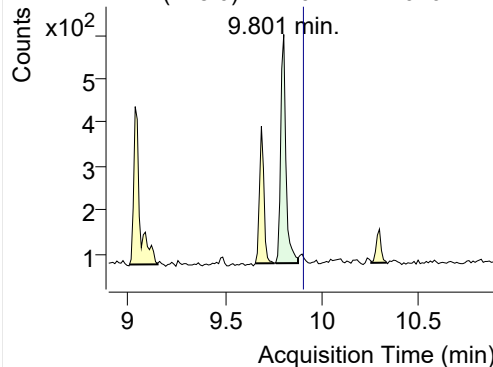


+ SIM (9.759-9.875 min, 12 scans) (**) 221107

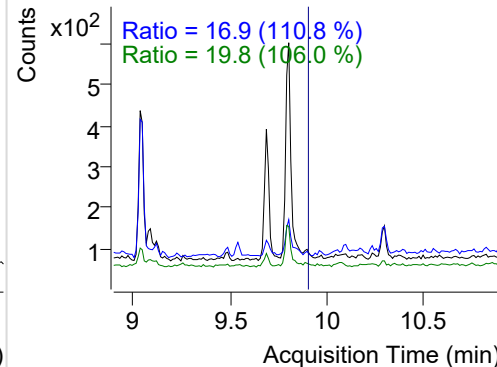


Anthracene

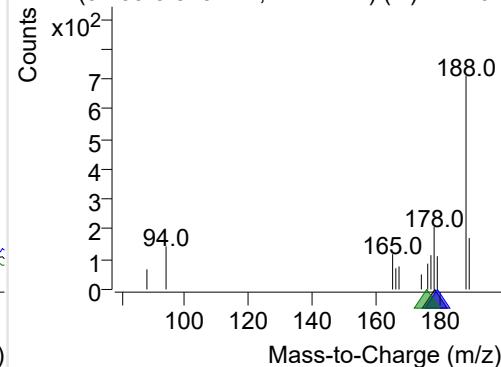
+ Selected Ion (178.0) 221107-PAHs-026.D



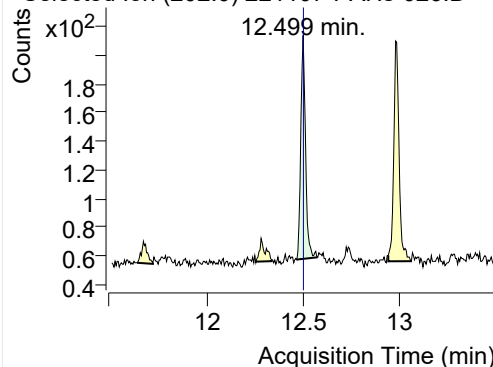
178.0, 179.0, 176.0



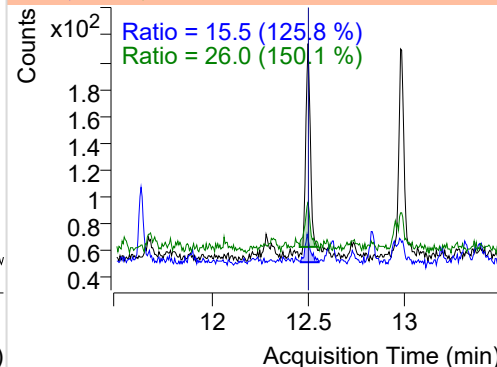
+ SIM (9.759-9.875 min, 12 scans) (**) 221107

**Fluoranthene**

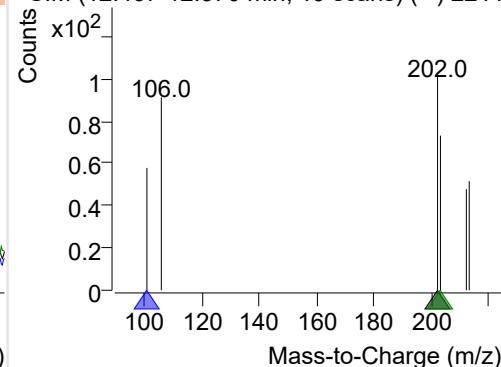
+ Selected Ion (202.0) 221107-PAHs-026.D



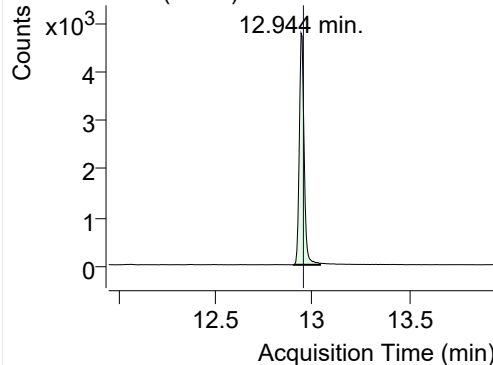
202.0, 101.0, 203.0



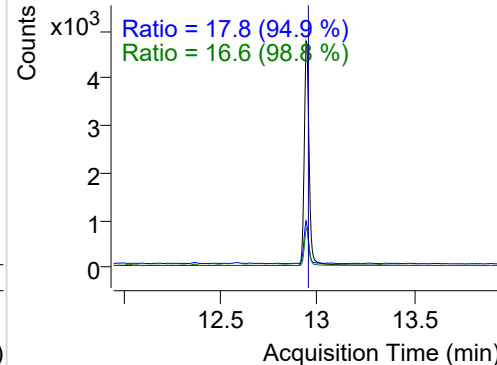
+ SIM (12.467-12.570 min, 19 scans) (**) 2211

**LSS-D10-Pyrene**

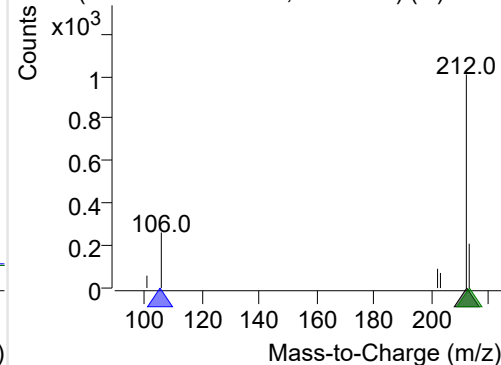
+ Selected Ion (212.0) 221107-PAHs-026.D



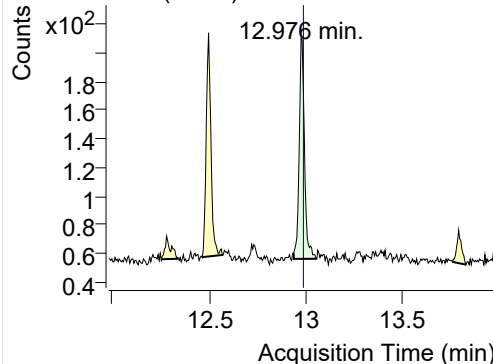
212.0, 106.0, 213.0



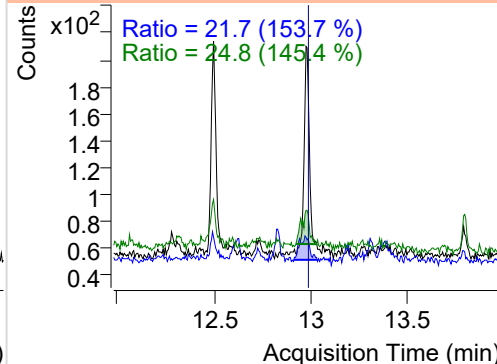
+ SIM (12.906-13.041 min, 26 scans) (**) 2211

**Pyrene**

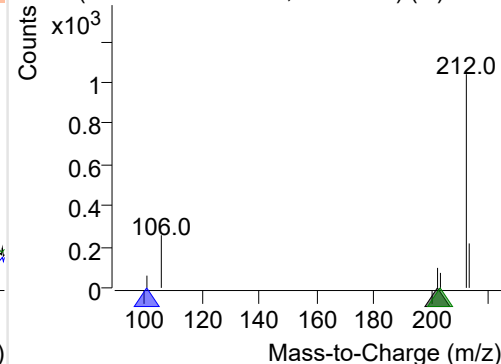
+ Selected Ion (202.0) 221107-PAHs-026.D



202.0, 101.0, 203.0



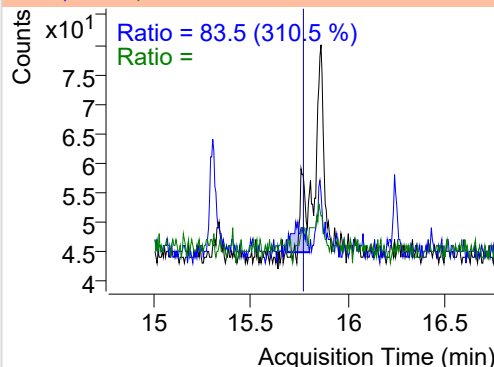
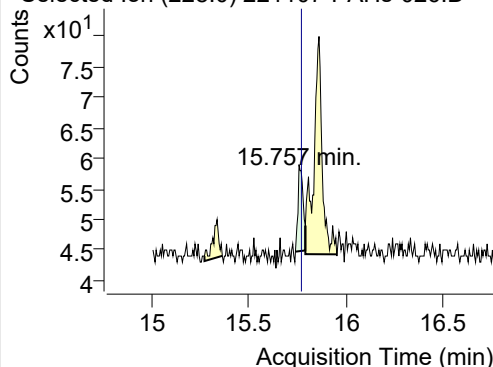
+ SIM (12.938-13.057 min, 22 scans) (**) 2211



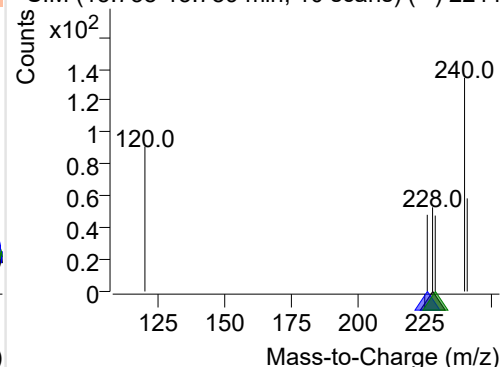
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-026.D

228.0, 226.0, 229.0

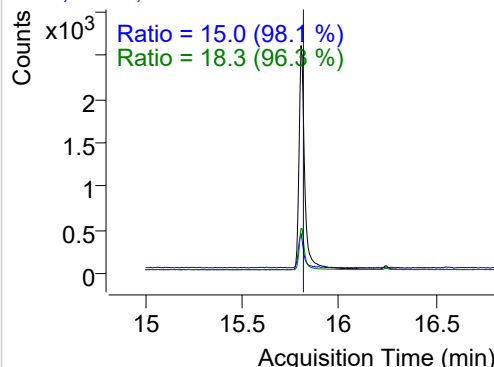
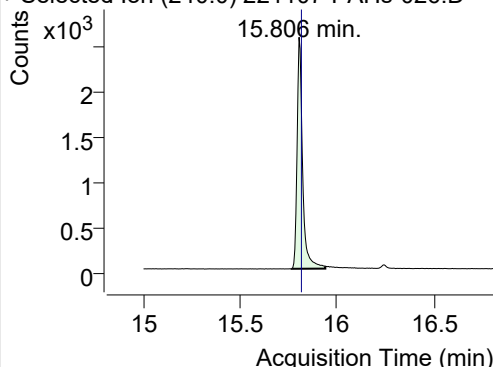


+ SIM (15.738-15.789 min, 10 scans) (**) 2211

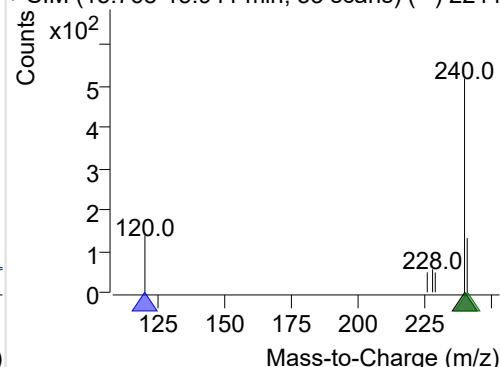
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-026.D

240.0, 120.0, 241.0

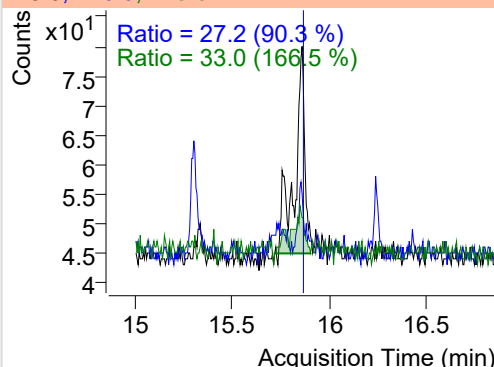
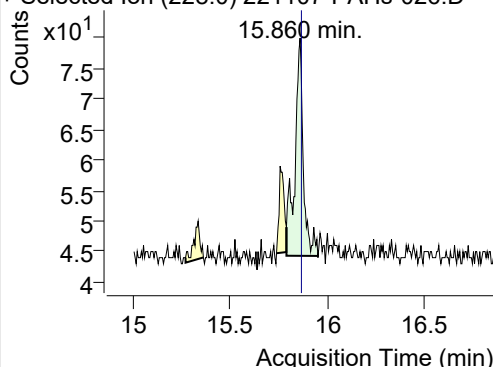


+ SIM (15.768-15.941 min, 33 scans) (**) 2211

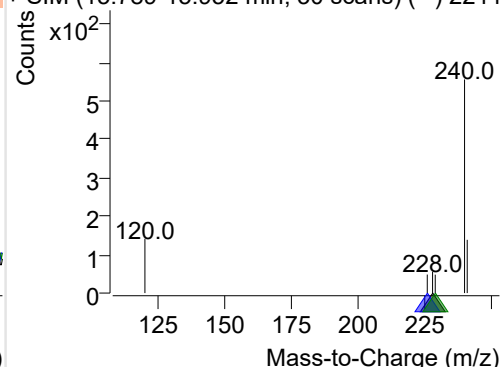
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-026.D

228.0, 226.0, 229.0

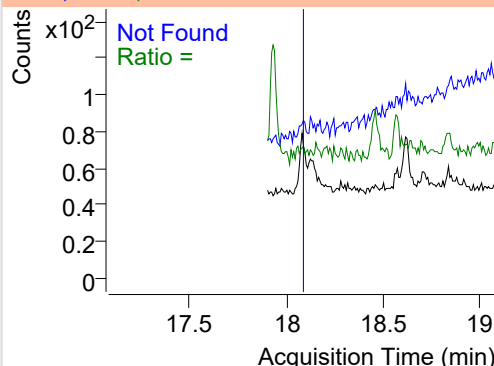
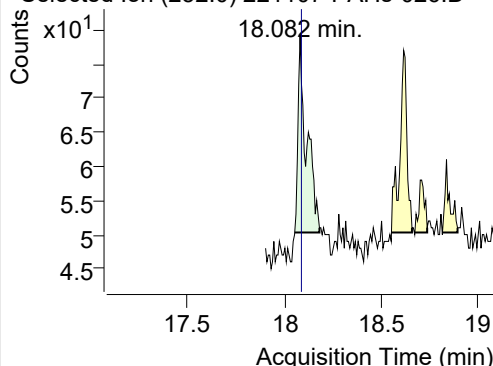


+ SIM (15.789-15.952 min, 30 scans) (**) 2211

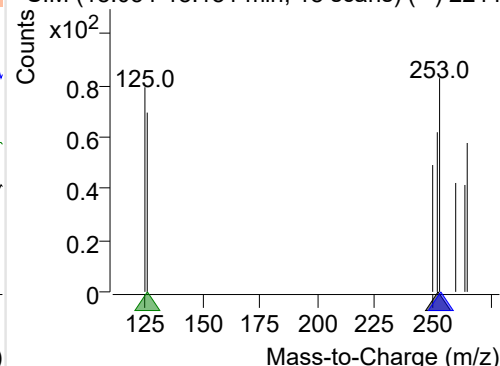
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-026.D

252.0, 253.0, 126.0



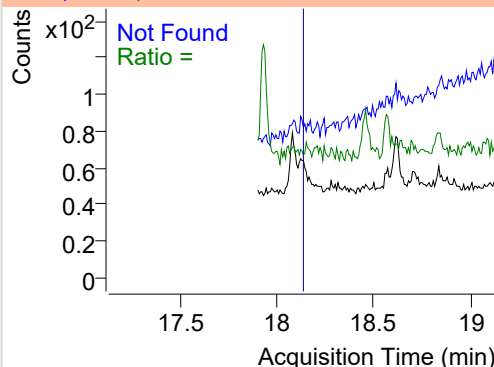
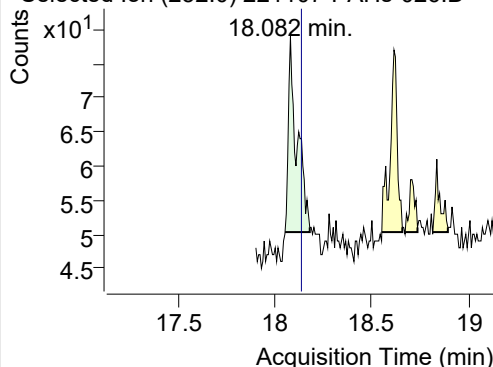
+ SIM (18.054-18.181 min, 18 scans) (**) 2211



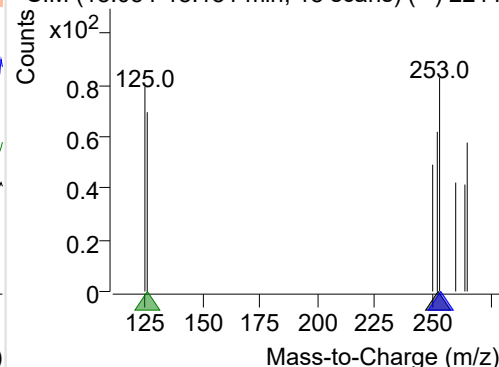
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-026.D

252.0, 253.0, 126.0

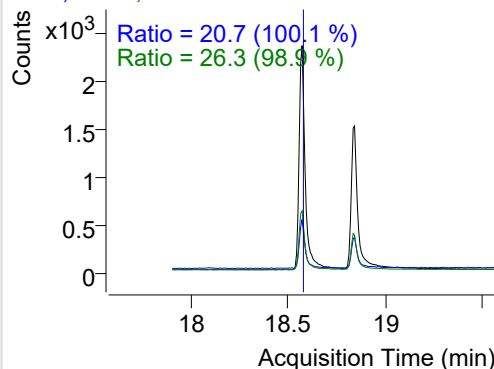
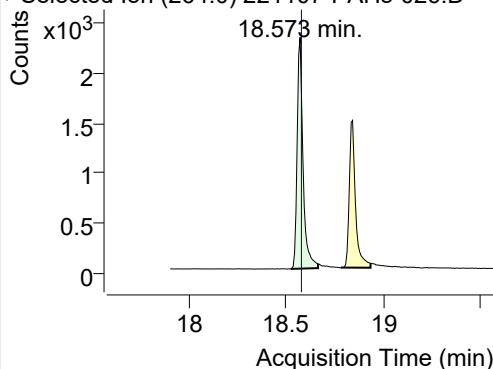


+ SIM (18.054-18.181 min, 18 scans) (**) 2211

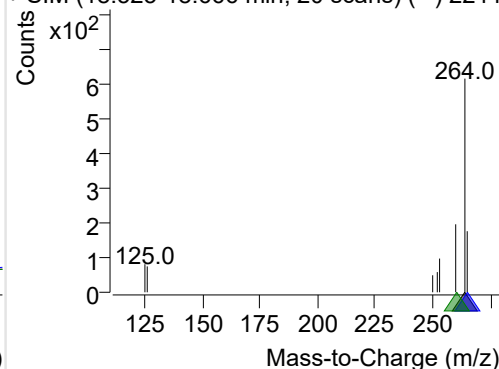
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-026.D

264.0, 265.0, 260.0

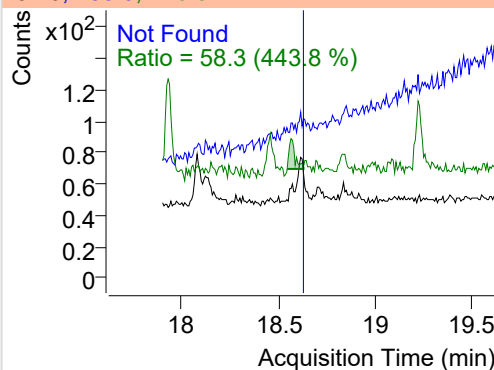
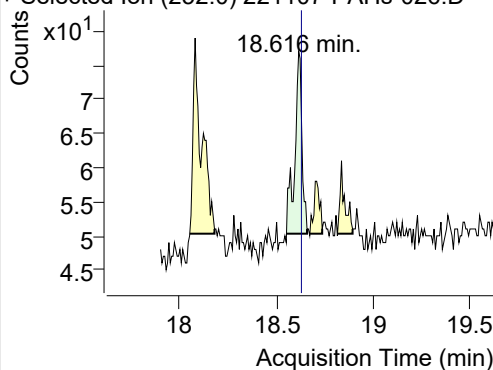


+ SIM (18.525-18.666 min, 20 scans) (**) 2211

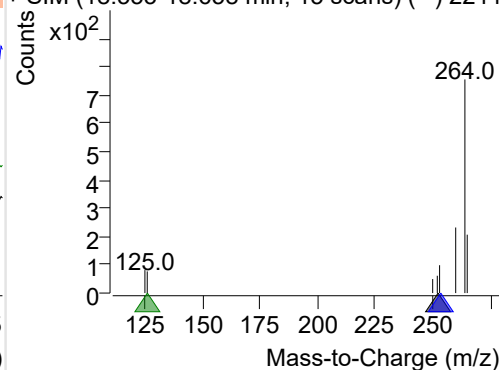
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-026.D

252.0, 253.0, 126.0

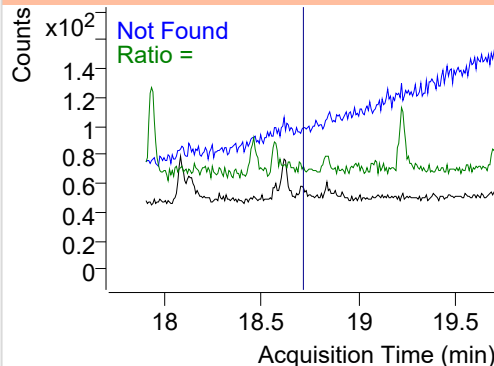
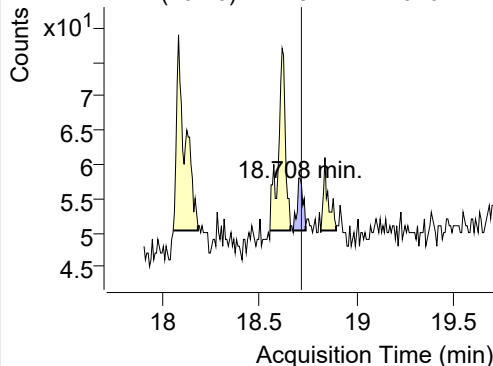


+ SIM (18.553-18.658 min, 15 scans) (**) 2211

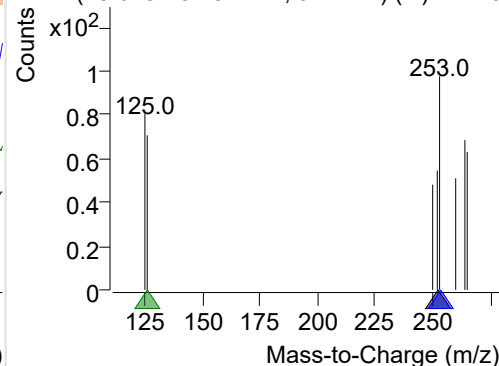
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-026.D

252.0, 253.0, 126.0

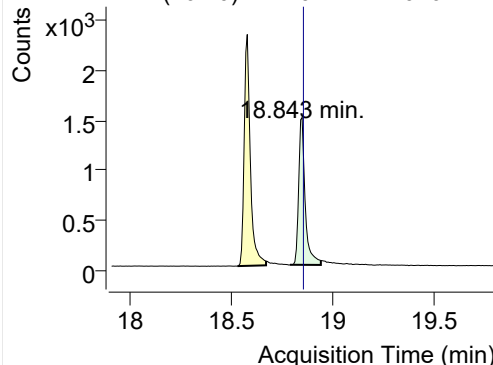


+ SIM (18.673-18.737 min, 9 scans) (**) 22110

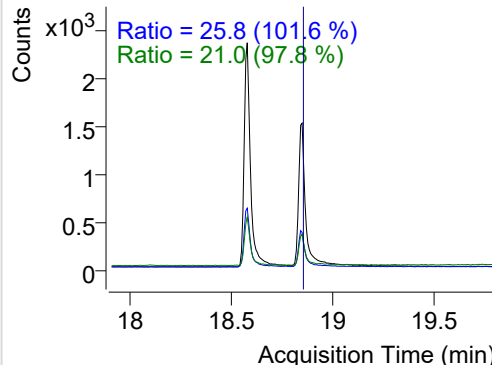


IS-D12-Perylene

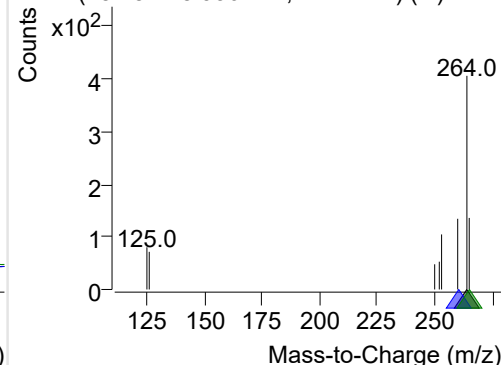
+ Selected Ion (264.0) 221107-PAHs-026.D



264.0, 260.0, 265.0

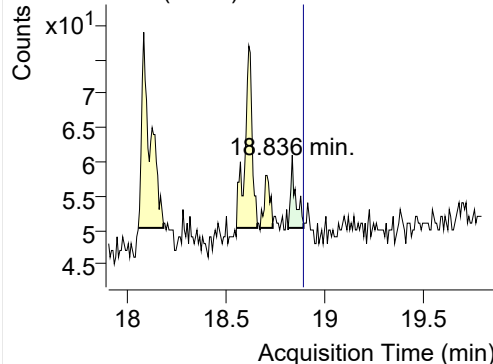


+ SIM (18.784-18.936 min, 22 scans) (**) 2211

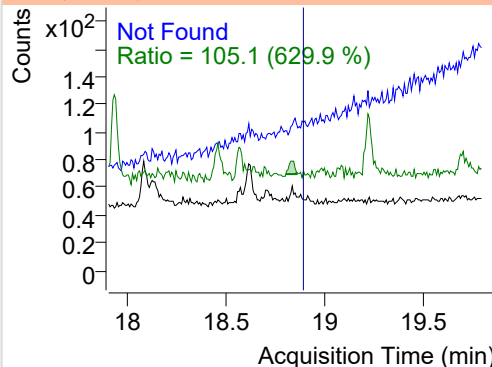


Perylene

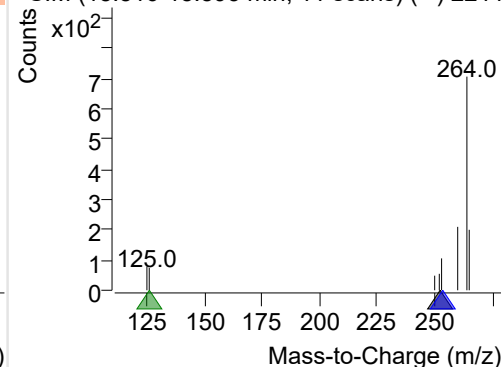
+ Selected Ion (252.0) 221107-PAHs-026.D



252.0, 253.0, 126.0

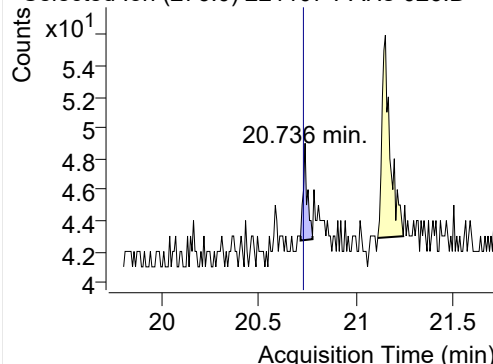


+ SIM (18.816-18.893 min, 11 scans) (**) 2211

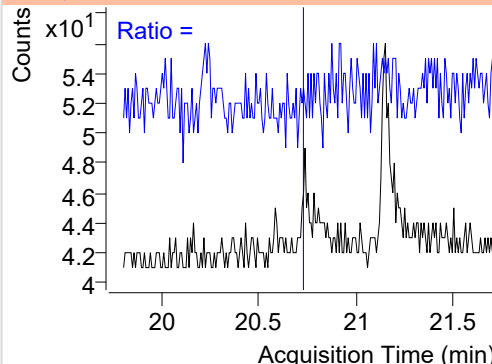


Indeno(1,2,3-c,d)pyrene

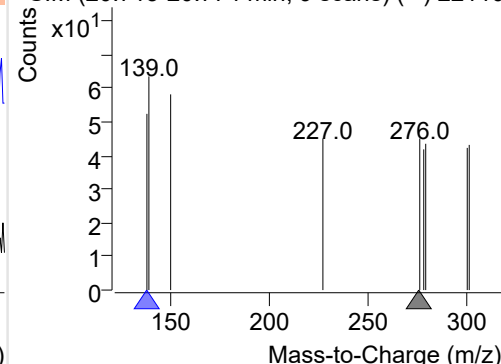
+ Selected Ion (276.0) 221107-PAHs-026.D



276.0, 138.0

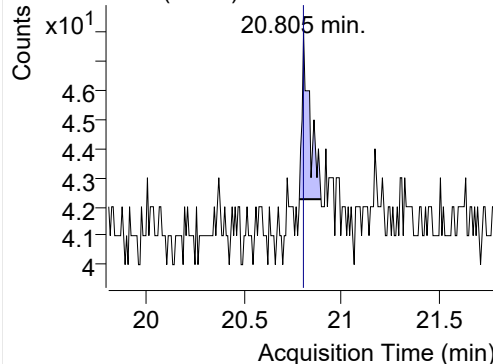


+ SIM (20.713-20.774 min, 9 scans) (**) 22110

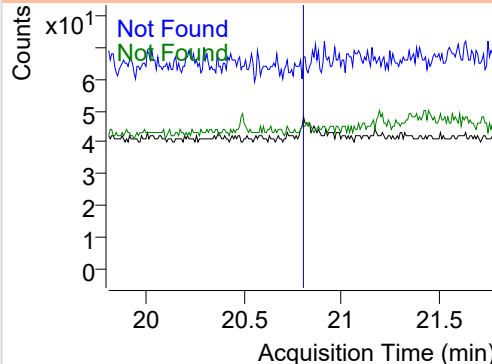


Dibenz(a,h)anthracene

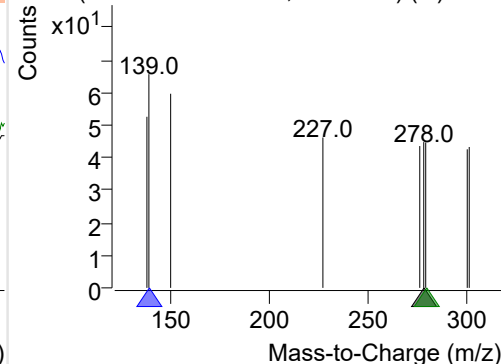
+ Selected Ion (278.0) 221107-PAHs-026.D



278.0, 139.0, 279.0

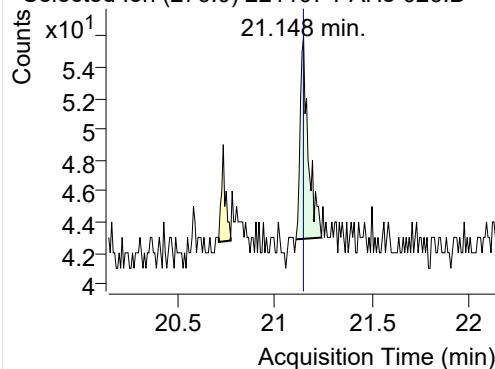


+ SIM (20.783-20.894 min, 14 scans) (**) 2211

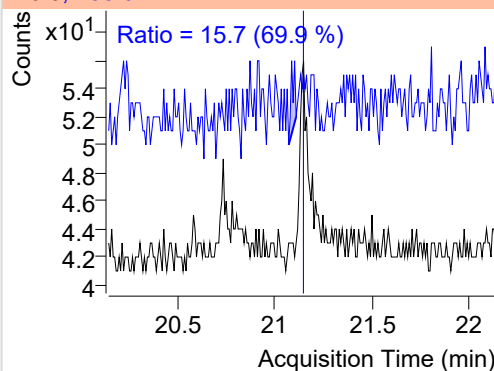


Benzo(g,h,i)perylene

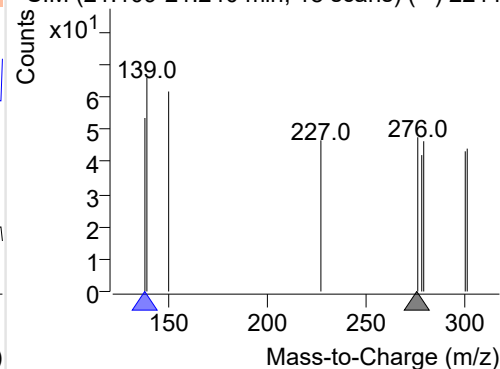
+ Selected Ion (276.0) 221107-PAHs-026.D



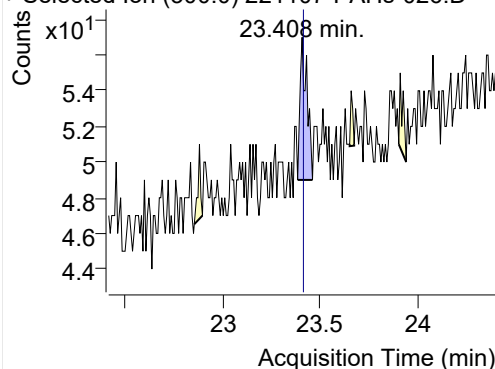
276.0, 138.0



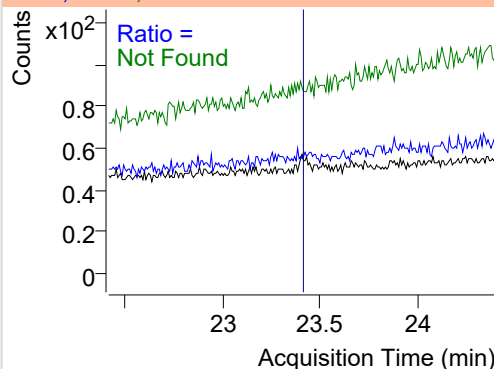
+ SIM (21.109-21.240 min, 18 scans) (**) 2211

**Coronene**

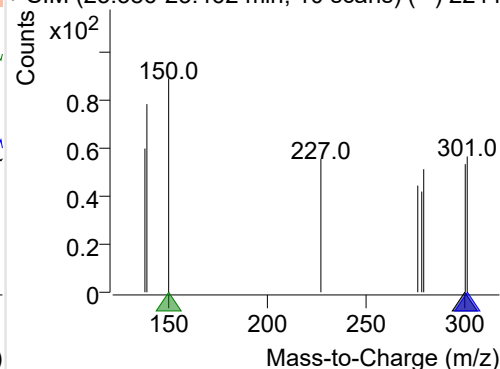
+ Selected Ion (300.0) 221107-PAHs-026.D



300.0, 301.0, 150.0



+ SIM (23.386-23.462 min, 10 scans) (**) 2211



Quantitative Analysis Sample Based Report

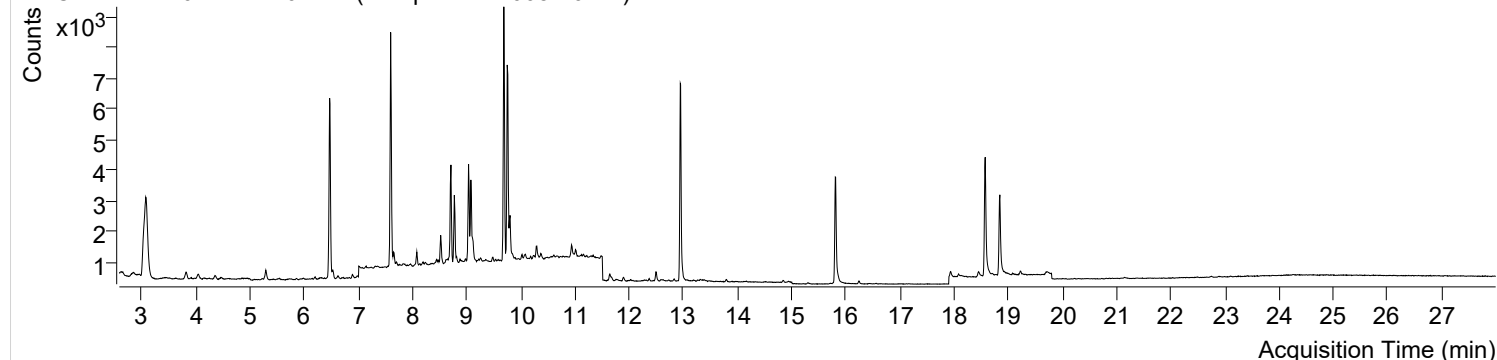


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 5:29:33	Data File	221107-PAHs-027.D
Type	Sample	Name	Sample-PM-1008-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

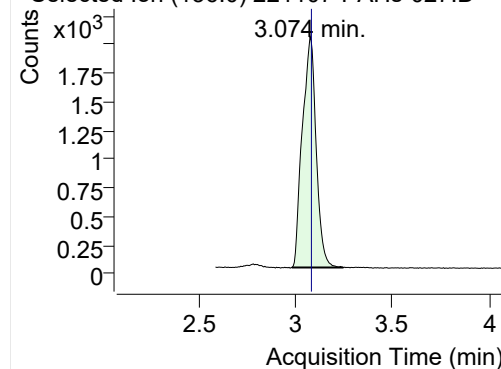
+ TIC SIM 221107-PAHs-027.D (Sample-PM-1008-10DIL)



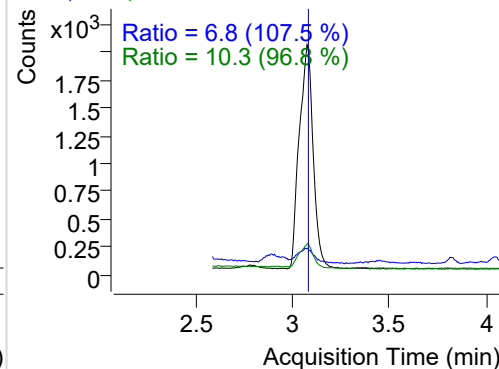
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	9919	2009.98	ND ng/ml	10.3
Naphthalene	3.107	128.0	1410	293.60	ND ng/ml	14.6
Acenaphthylene	6.137	152.0	42	18.02	ND ng/ml	44.2
IS-D10-Acenaphthene	6.469	164.0	5186	2765.06	ND ng/ml	98.8
Acenaphthene	6.534	154.0	143	67.14	ND ng/ml	115.4
LSS-D10-Fluorene	7.596	176.0	5611	3353.41	ND ng/ml	95.0
Fluorene	7.659	166.0	325	172.58	ND ng/ml	118.7
IS-D10-Phenanthrene	9.748	188.0	9297	4902.49	ND ng/ml	15.3
Phenanthrene	9.801	178.0	1523	849.60	ND ng/ml	20.2
Anthracene	9.801	178.0	1523	849.60	ND ng/ml	20.2
Fluoranthene	12.499	202.0	398	212.31	ND ng/ml	26.6
LSS-D10-Pyrene	12.949	212.0	7982	4748.57	ND ng/ml	18.3
Pyrene	12.976	202.0	399	203.31	ND ng/ml	28.6
Benz(a)anthracene	15.762	228.0	35	20.34	ND ng/ml	117.2
IS-D12-Chrysene	15.811	240.0	5346	2620.72	ND ng/ml	18.7
Chrysene	15.854	228.0	176	64.60	ND ng/ml	29.8
Benzo(b)fluoranthene	18.082	252.0	173	44.72	ND ng/ml	
Benzo(k)fluoranthene	18.082	252.0	173	44.72	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	5648	2590.52	ND ng/ml	26.1
Benzo(e)pyrene	18.616	252.0	92	42.72	ND ng/ml	
Benzo(a)pyrene	18.715	252.0	28	11.72	ND ng/ml	
IS-D12-Perylene	18.843	264.0	3935	1758.94	ND ng/ml	24.0
Perylene	18.843	252.0	14	10.72	ND ng/ml	
Indeno(1,2,3-c,d)pytene	20.721	276.0	40	10.60	ND ng/ml	
Dibenz(a,h)anthracene	20.820	278.0	16	4.47	ND ng/ml	
Benzo(g,h,i)perylene	21.141	276.0	71	26.07	ND ng/ml	16.0
Coronene	23.431	300.0	28	8.64	ND ng/ml	102.1

IS-D8-Naphthalene

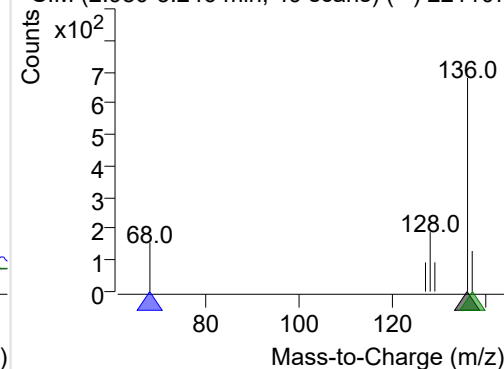
+ Selected Ion (136.0) 221107-PAHs-027.D



136.0, 68.0, 137.0

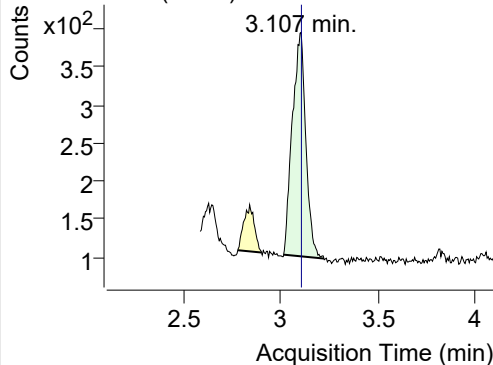


+ SIM (2.980-3.246 min, 49 scans) (**) 221107

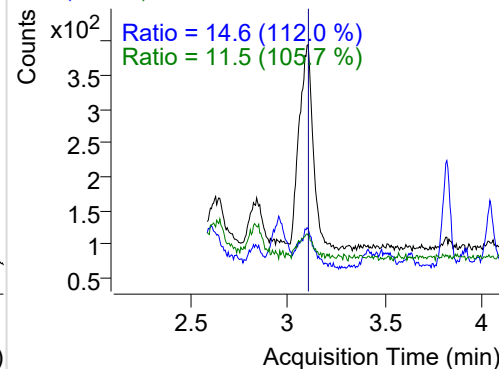


Naphthalene

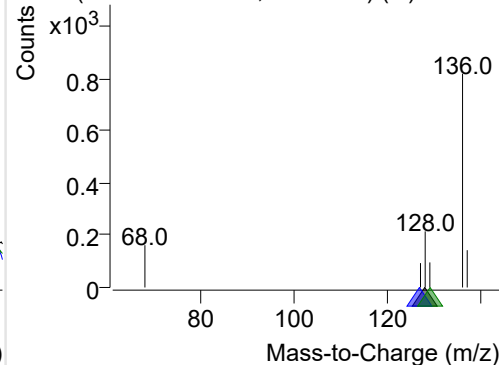
+ Selected Ion (128.0) 221107-PAHs-027.D



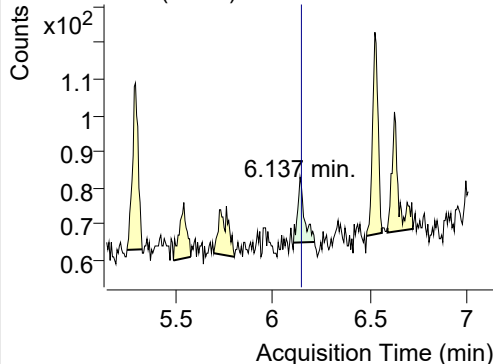
128.0, 127.0, 129.0



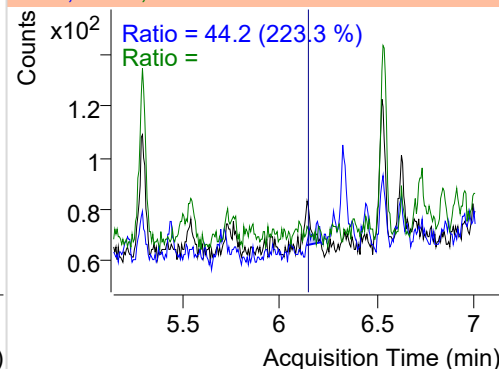
+ SIM (3.016-3.224 min, 38 scans) (**) 221107

**Acenaphthylene**

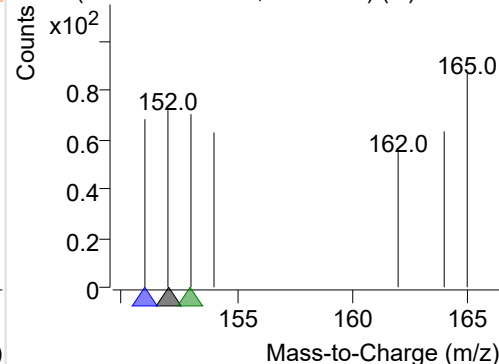
+ Selected Ion (152.0) 221107-PAHs-027.D



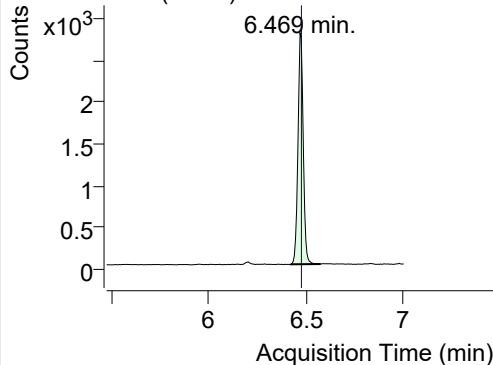
152.0, 151.0, 153.0



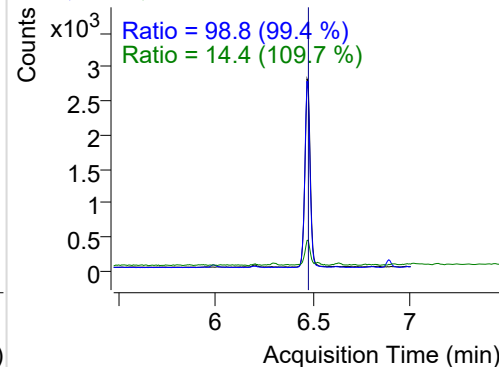
+ SIM (6.104-6.212 min, 18 scans) (**) 221107

**IS-D10-Acenaphthene**

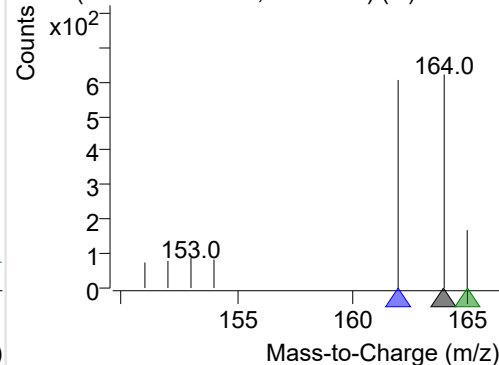
+ Selected Ion (164.0) 221107-PAHs-027.D



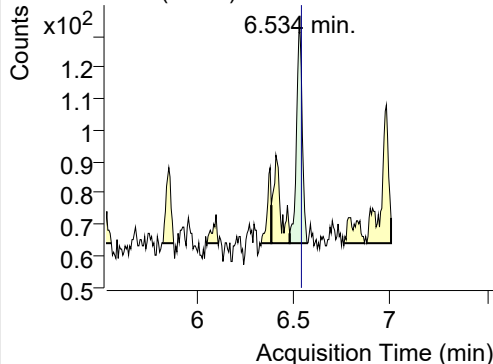
164.0, 162.0, 165.0



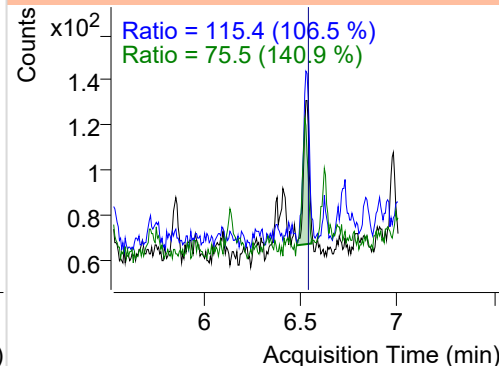
+ SIM (6.422-6.575 min, 26 scans) (**) 221107

**Acenaphthene**

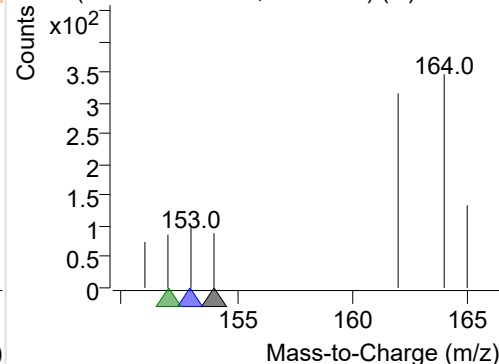
+ Selected Ion (154.0) 221107-PAHs-027.D



154.0, 153.0, 152.0

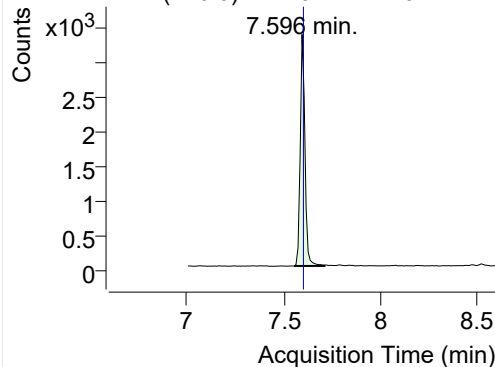


+ SIM (6.481-6.570 min, 16 scans) (**) 221107

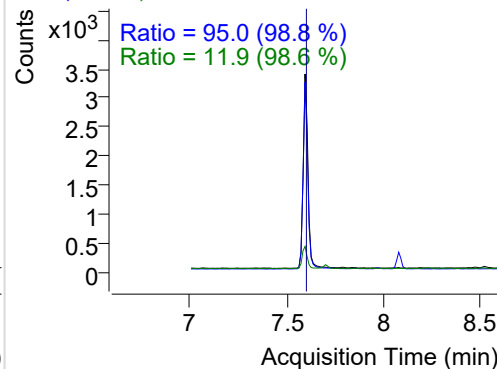


LSS-D10-Fluorene

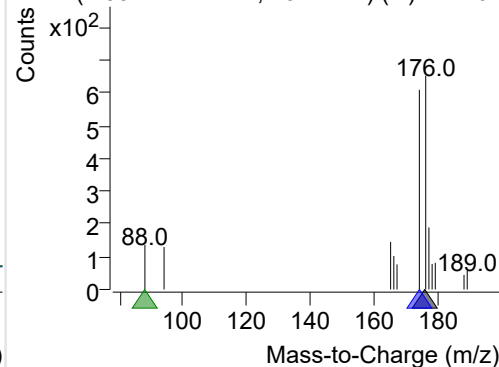
+ Selected Ion (176.0) 221107-PAHs-027.D



176.0, 174.0, 88.0

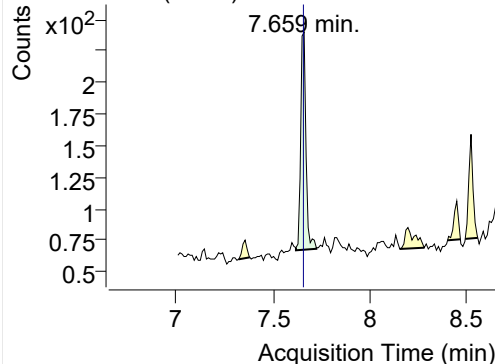


+ SIM (7.554-7.711 min, 15 scans) (**) 221107

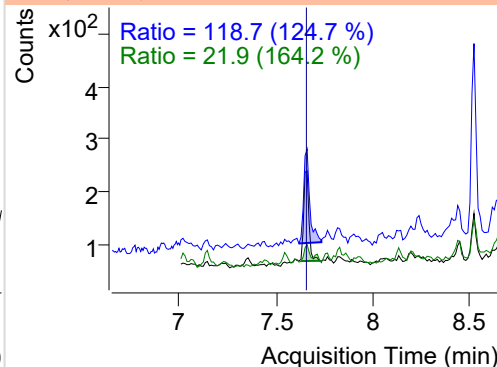


Fluorene

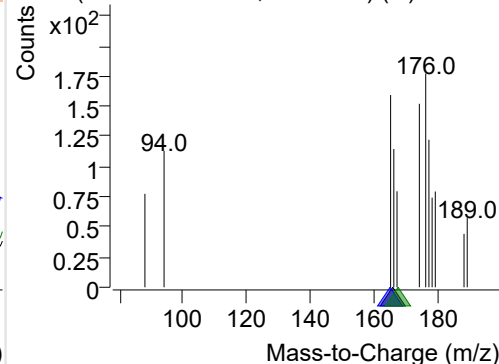
+ Selected Ion (166.0) 221107-PAHs-027.D



166.0, 165.0, 167.0

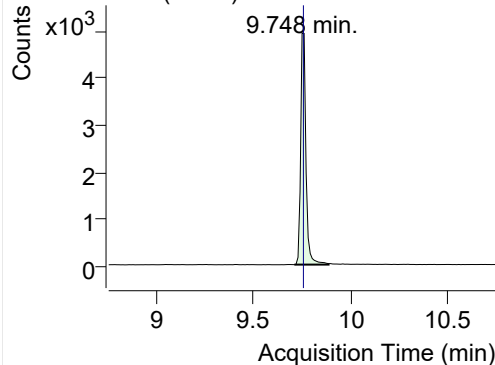


+ SIM (7.617-7.722 min, 11 scans) (**) 221107

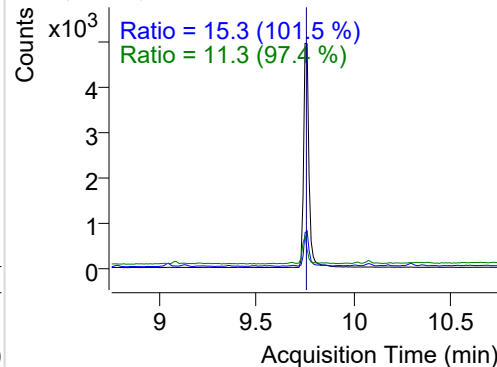


IS-D10-Phenanthrene

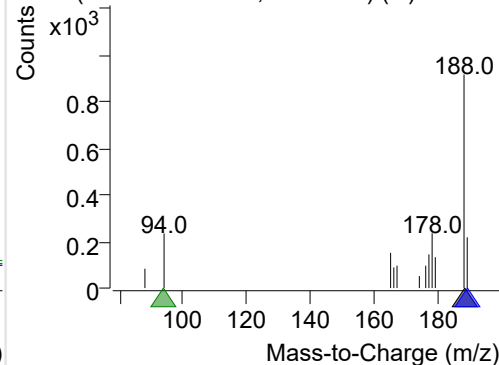
+ Selected Ion (188.0) 221107-PAHs-027.D



188.0, 189.0, 94.0

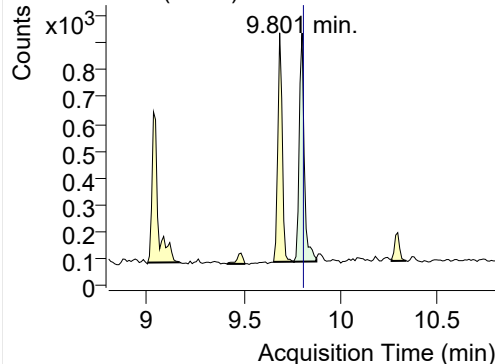


+ SIM (9.709-9.885 min, 17 scans) (**) 221107

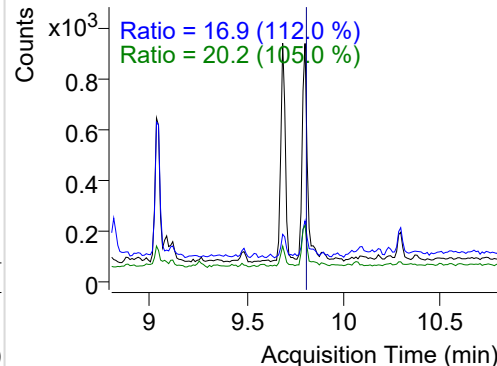


Phenanthrene

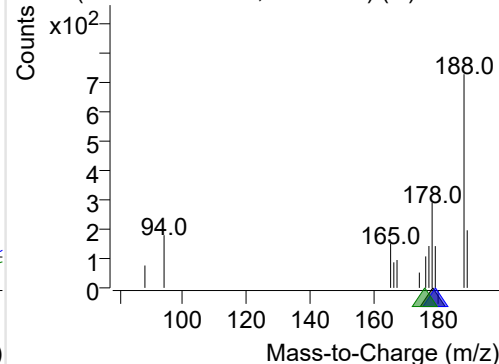
+ Selected Ion (178.0) 221107-PAHs-027.D



178.0, 179.0, 176.0

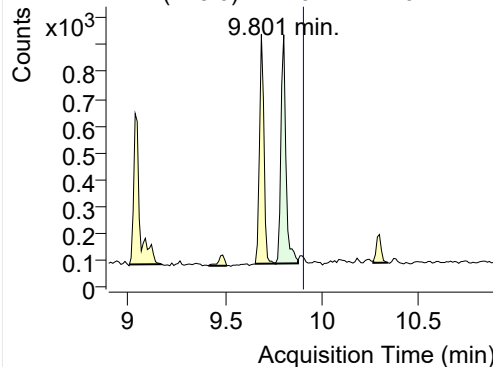


+ SIM (9.759-9.874 min, 12 scans) (**) 221107

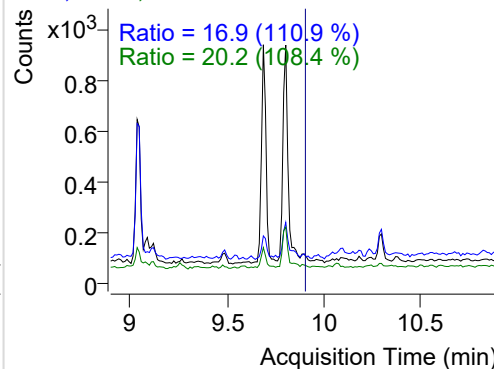


Anthracene

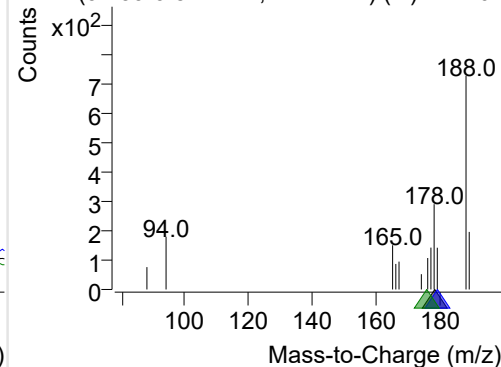
+ Selected Ion (178.0) 221107-PAHs-027.D



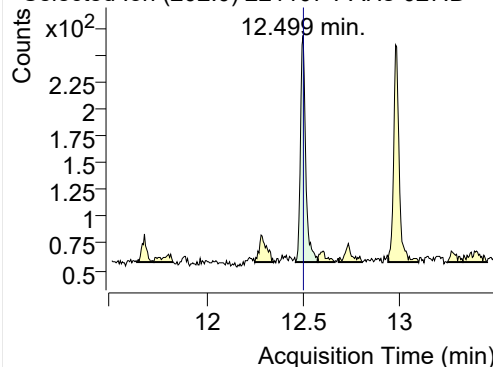
178.0, 179.0, 176.0



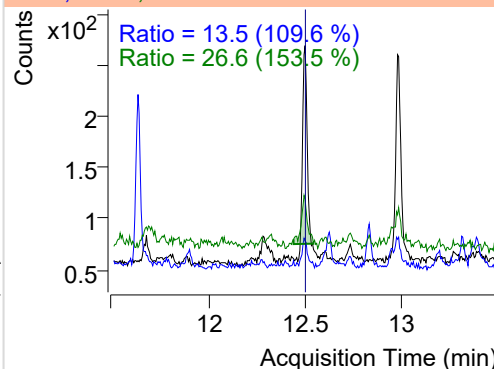
+ SIM (9.759-9.874 min, 12 scans) (**) 221107

**Fluoranthene**

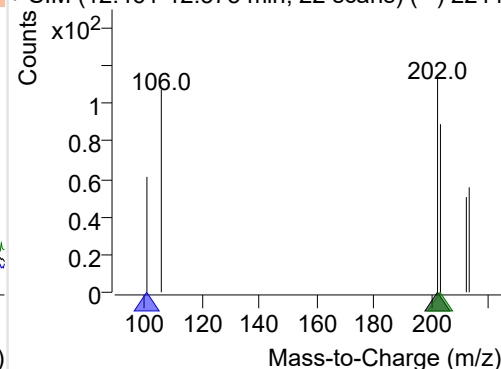
+ Selected Ion (202.0) 221107-PAHs-027.D



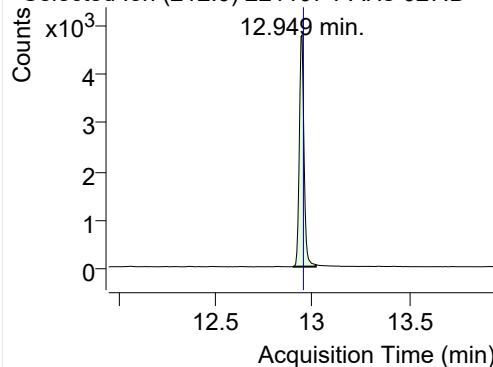
202.0, 101.0, 203.0



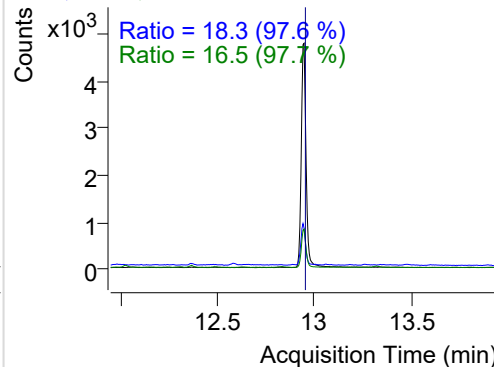
+ SIM (12.461-12.575 min, 22 scans) (**) 2211

**LSS-D10-Pyrene**

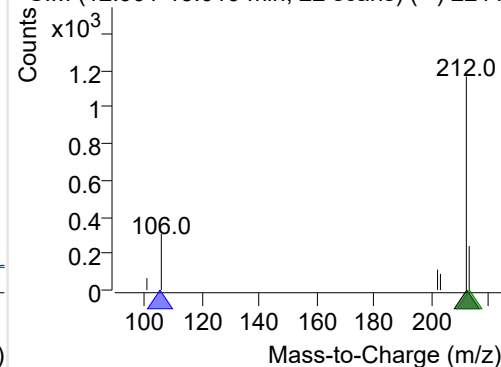
+ Selected Ion (212.0) 221107-PAHs-027.D



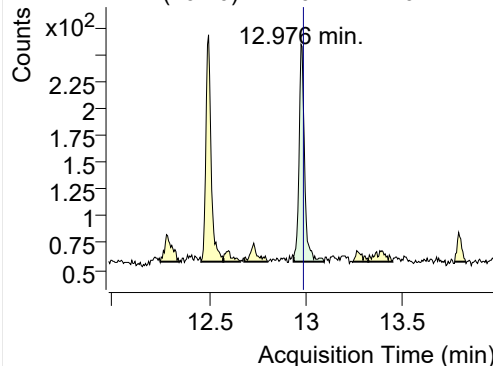
212.0, 106.0, 213.0



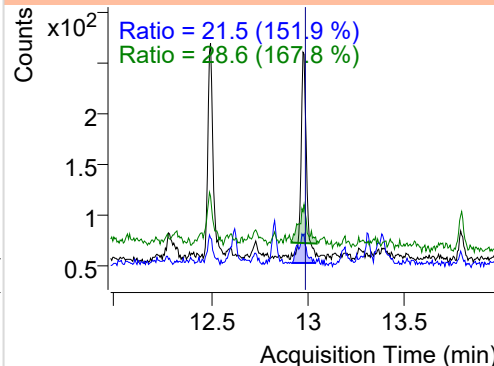
+ SIM (12.901-13.019 min, 22 scans) (**) 2211

**Pyrene**

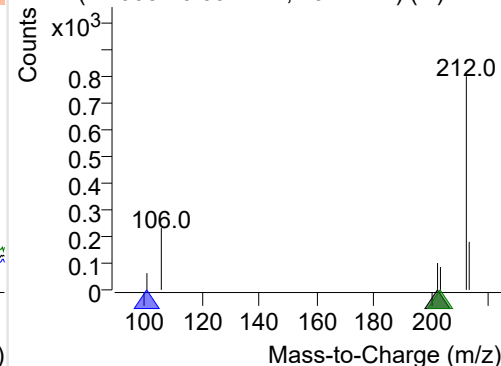
+ Selected Ion (202.0) 221107-PAHs-027.D



202.0, 101.0, 203.0



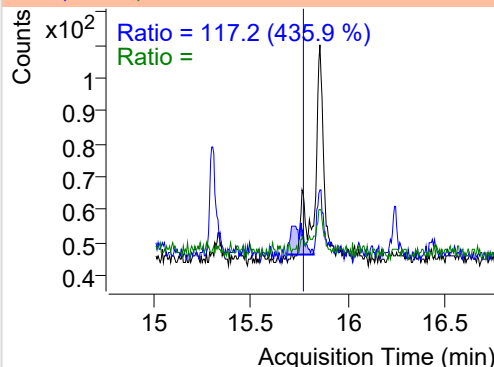
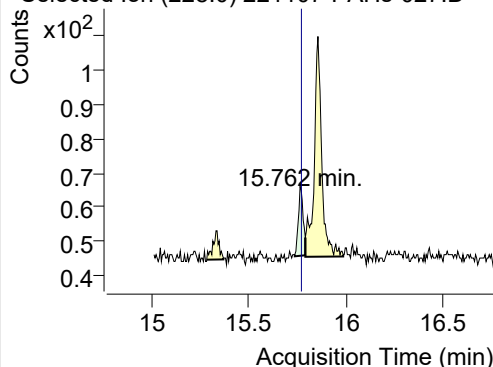
+ SIM (12.938-13.094 min, 29 scans) (**) 2211



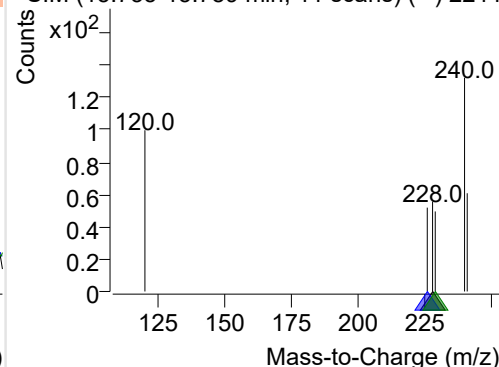
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-027.D

228.0, 226.0, 229.0

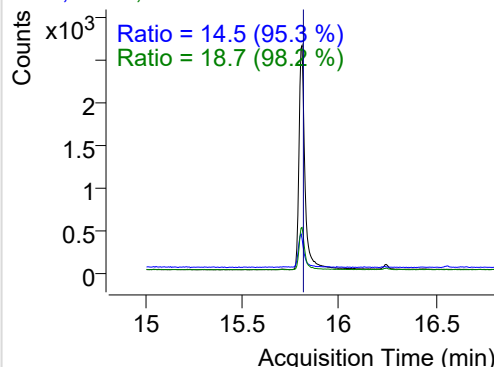
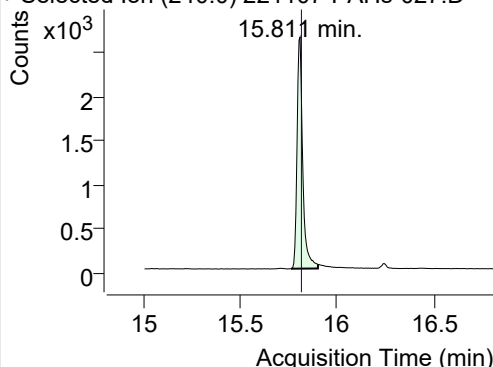


+ SIM (15.735-15.789 min, 11 scans) (**) 2211

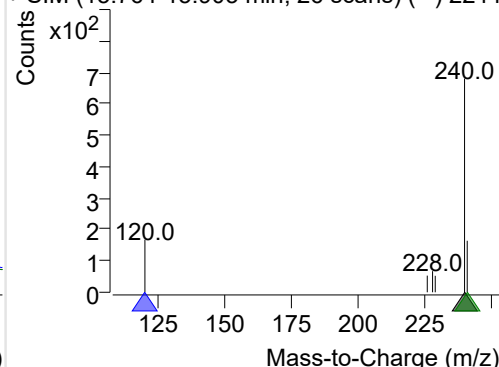
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-027.D

240.0, 120.0, 241.0

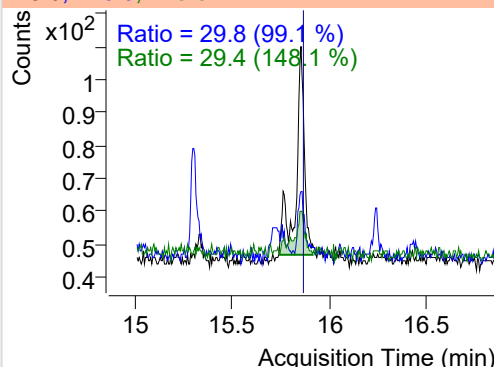
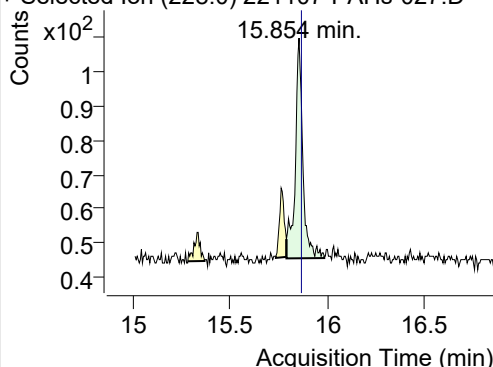


+ SIM (15.764-15.903 min, 26 scans) (**) 2211

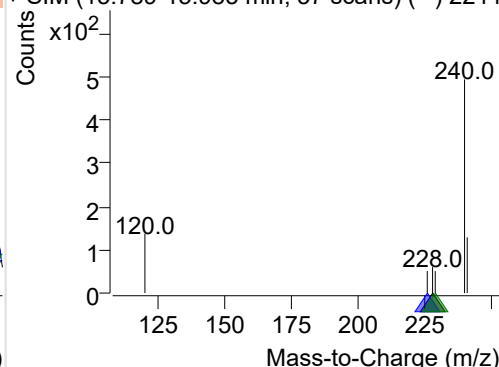
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-027.D

228.0, 226.0, 229.0

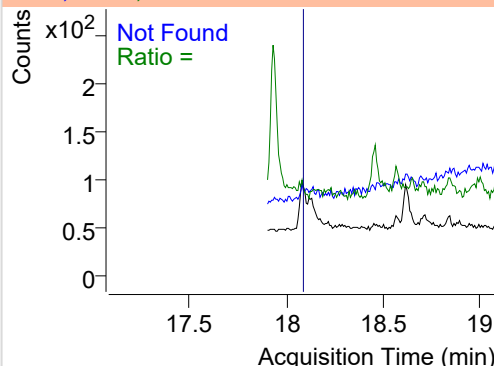
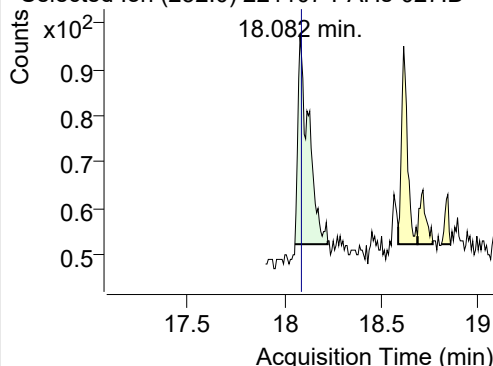


+ SIM (15.789-15.985 min, 37 scans) (**) 2211

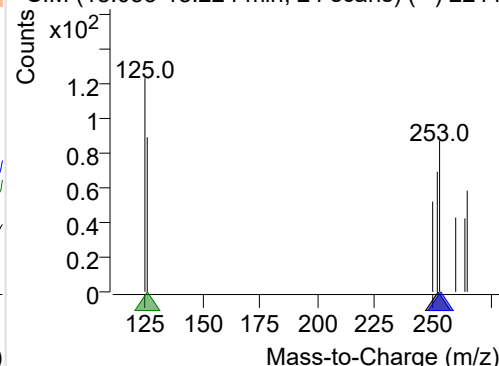
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-027.D

252.0, 253.0, 126.0



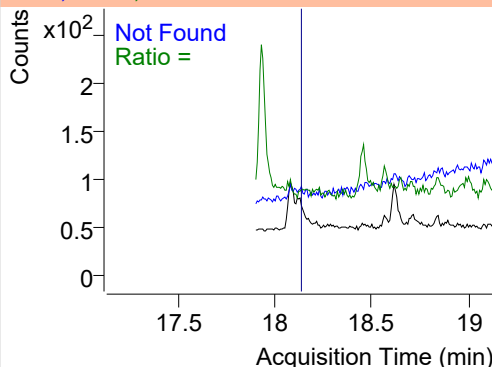
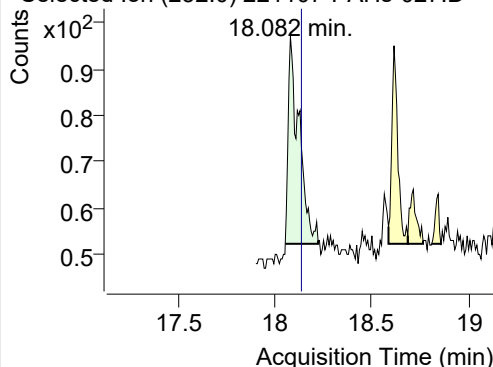
+ SIM (18.055-18.224 min, 24 scans) (**) 2211



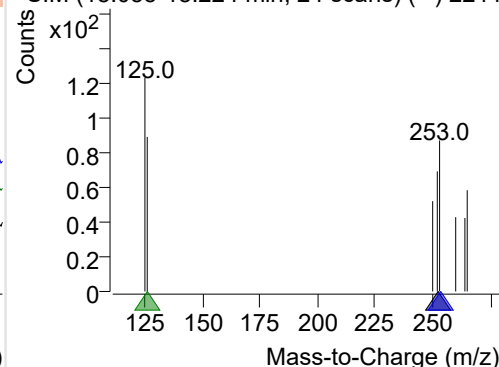
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-027.D

252.0, 253.0, 126.0

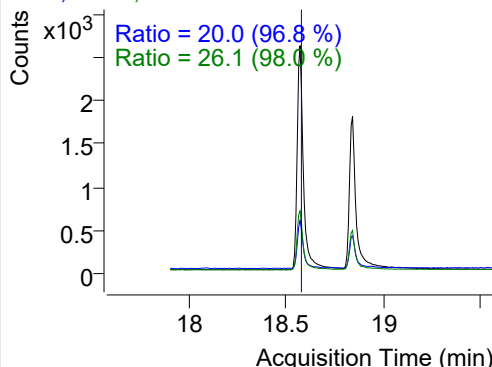
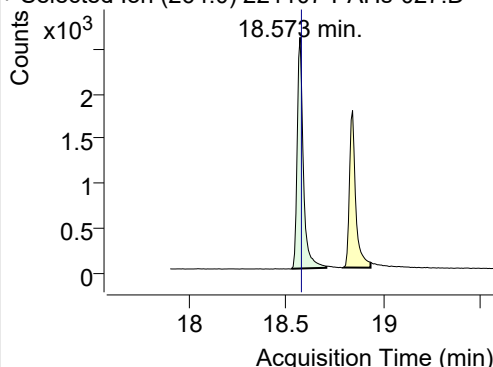


+ SIM (18.055-18.224 min, 24 scans) (**) 2211

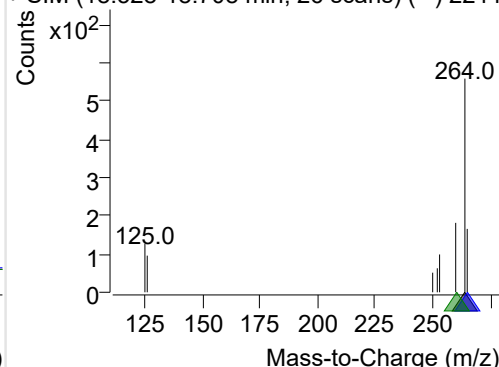
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-027.D

264.0, 265.0, 260.0

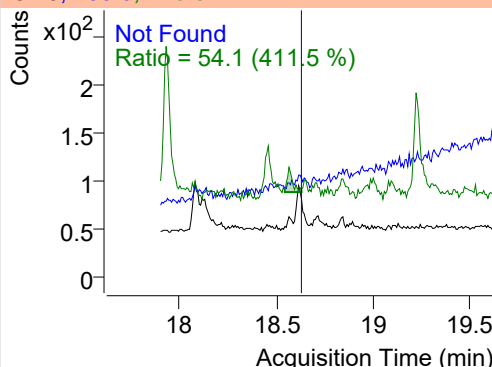
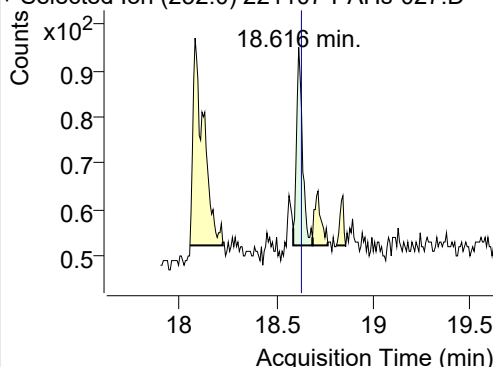


+ SIM (18.528-18.708 min, 26 scans) (**) 2211

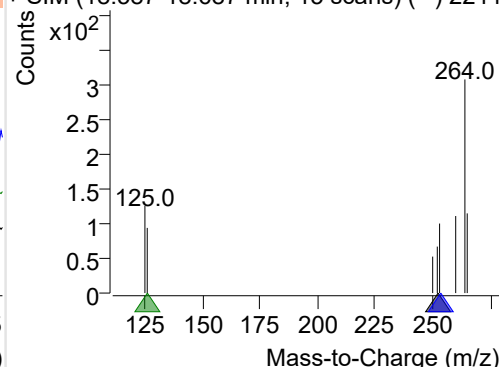
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-027.D

252.0, 253.0, 126.0

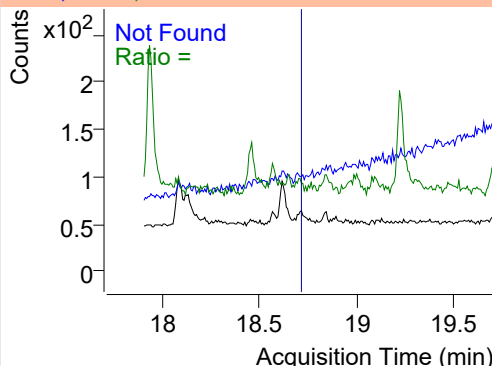
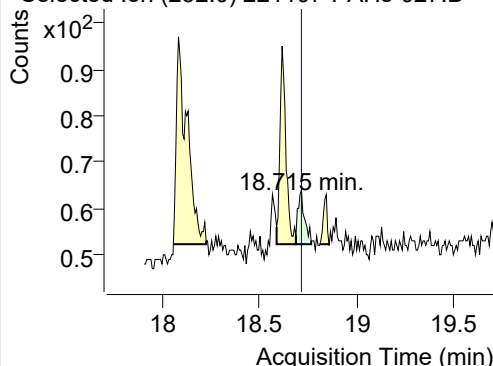


+ SIM (18.587-18.687 min, 15 scans) (**) 2211

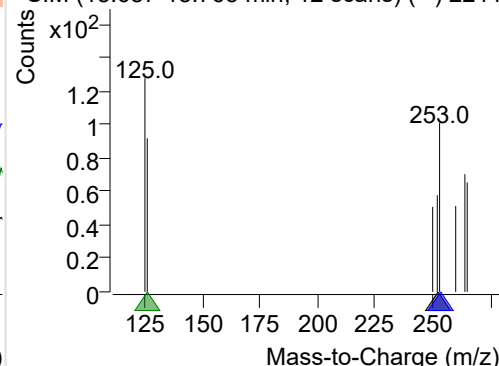
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-027.D

252.0, 253.0, 126.0

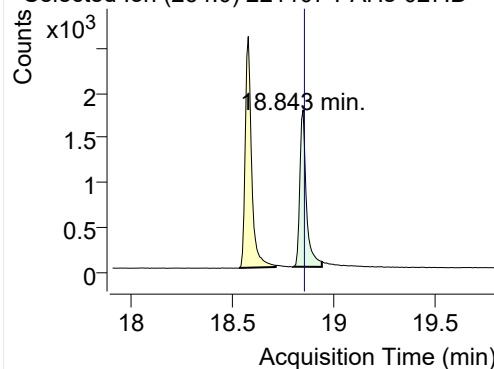


+ SIM (18.687-18.765 min, 12 scans) (**) 2211

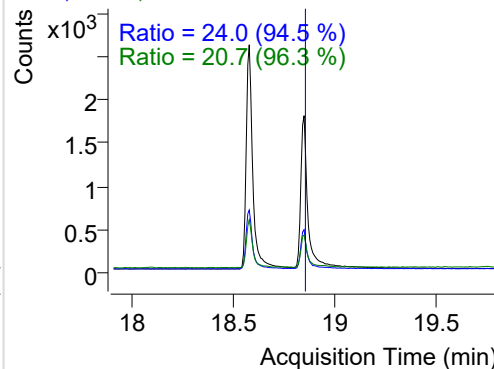


IS-D12-Perylene

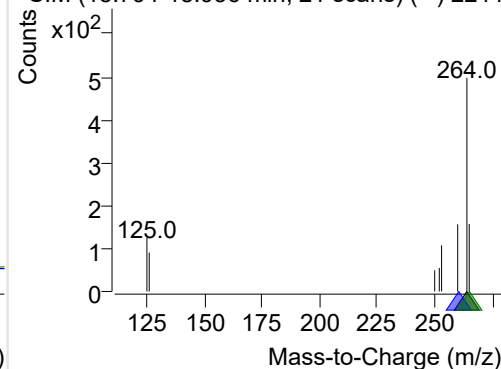
+ Selected Ion (264.0) 221107-PAHs-027.D



264.0, 260.0, 265.0

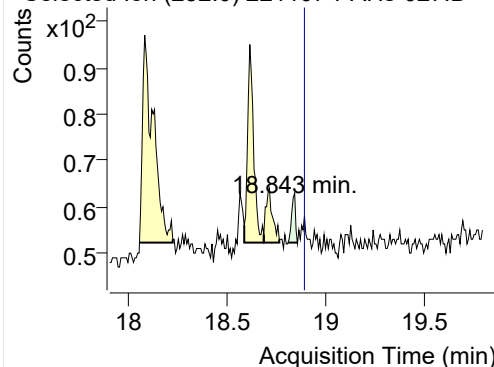


+ SIM (18.794-18.936 min, 21 scans) (**) 2211

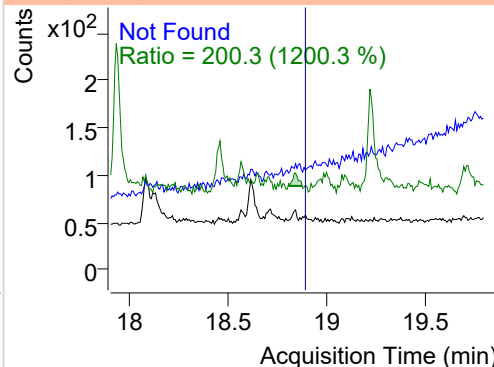


Perylene

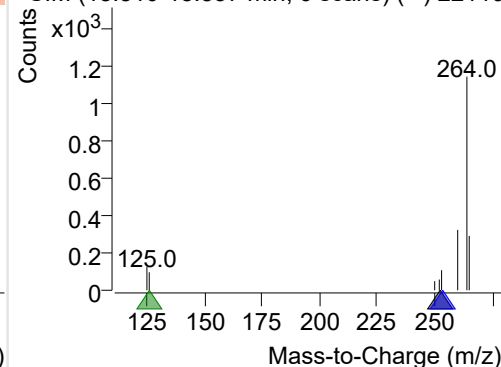
+ Selected Ion (252.0) 221107-PAHs-027.D



252.0, 253.0, 126.0

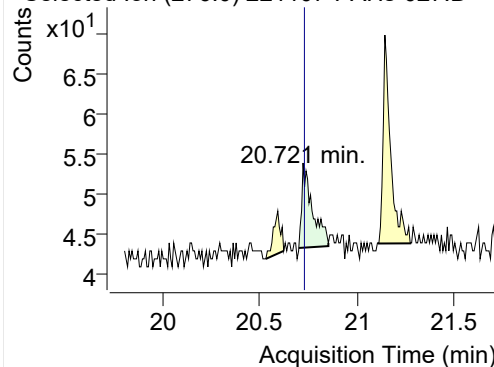


+ SIM (18.810-18.857 min, 6 scans) (**) 22110

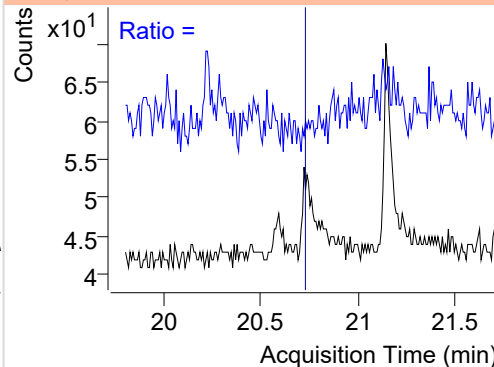


Indeno(1,2,3-c,d)pyrene

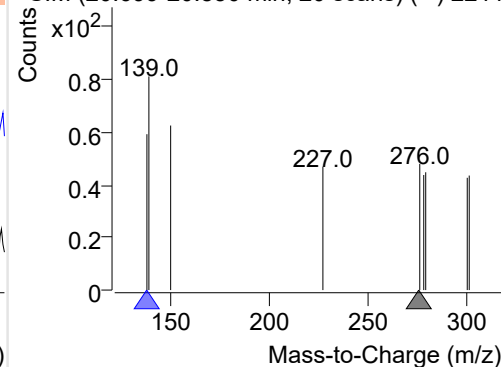
+ Selected Ion (276.0) 221107-PAHs-027.D



276.0, 138.0

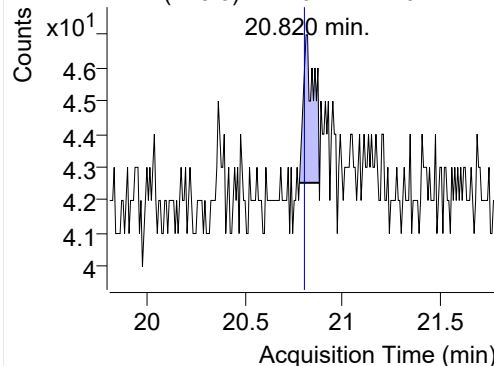


+ SIM (20.699-20.850 min, 20 scans) (**) 2211

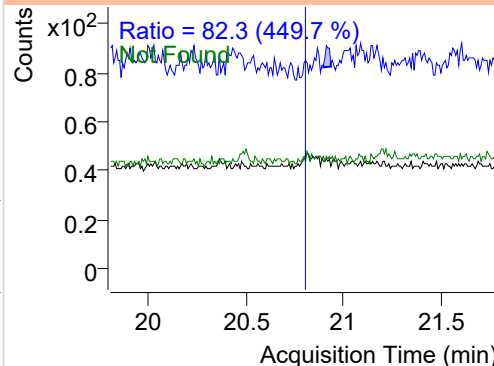


Dibenz(a,h)anthracene

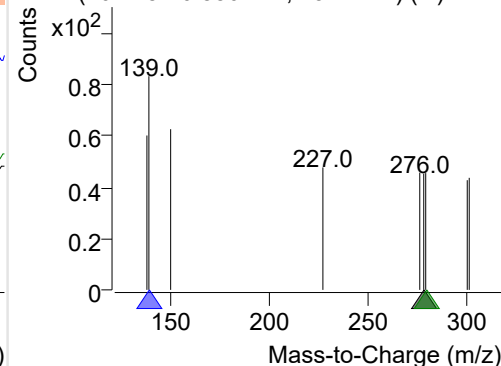
+ Selected Ion (278.0) 221107-PAHs-027.D



278.0, 139.0, 279.0



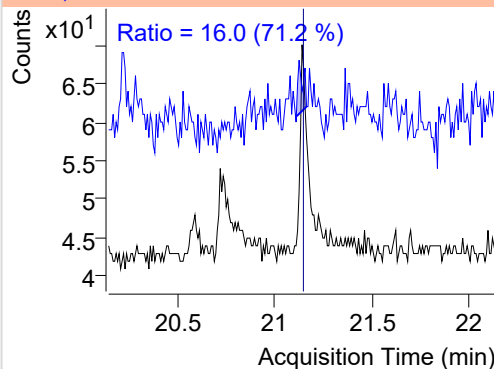
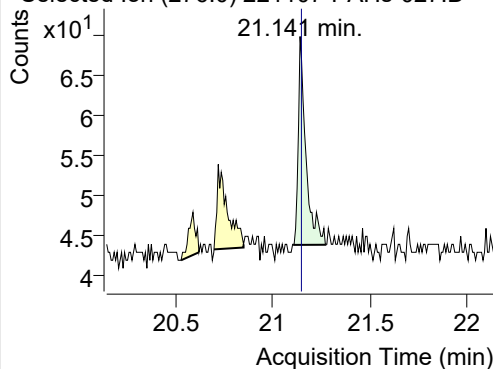
+ SIM (20.778-20.880 min, 13 scans) (**) 2211



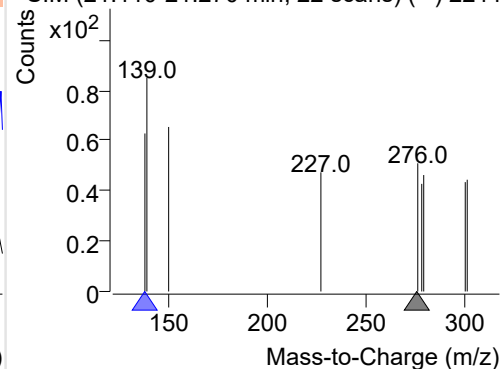
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-027.D

276.0, 138.0

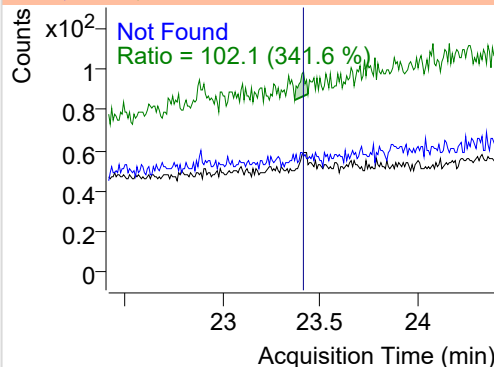
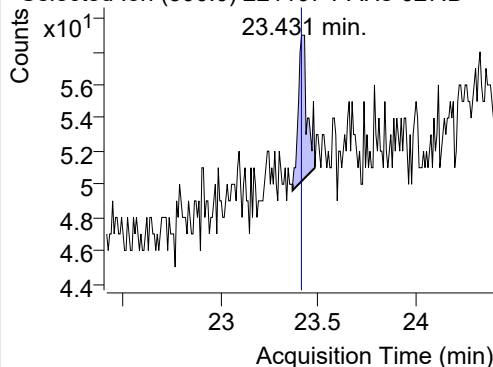


+ SIM (21.110-21.270 min, 22 scans) (**) 2211

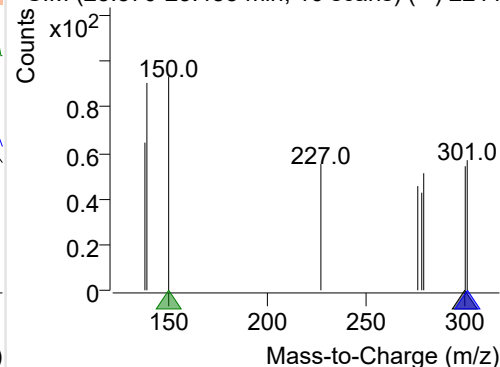
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-027.D

300.0, 301.0, 150.0



+ SIM (23.370-23.485 min, 16 scans) (**) 2211



Quantitative Analysis Sample Based Report

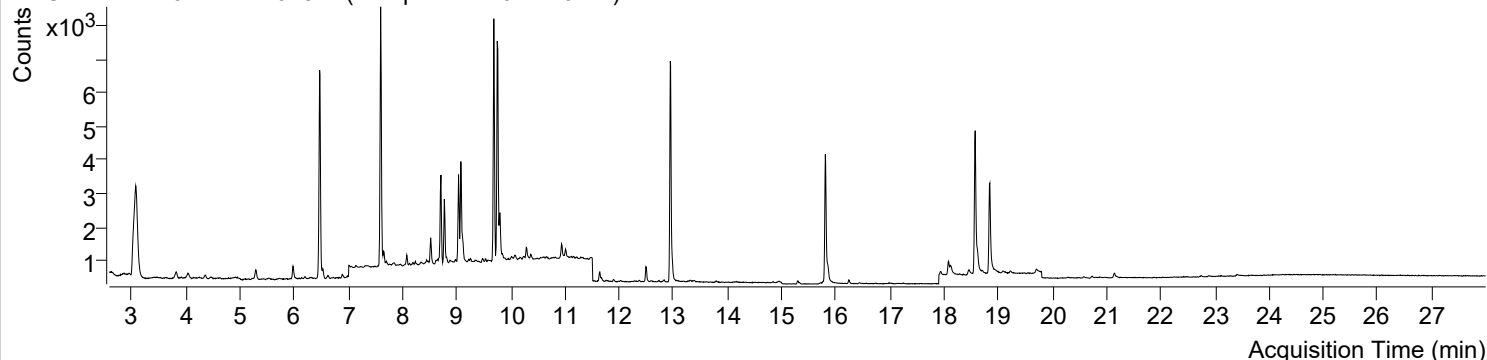


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 6:00:35	Data File	221107-PAHs-028.D
Type	Sample	Name	Sample-PM-1014-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

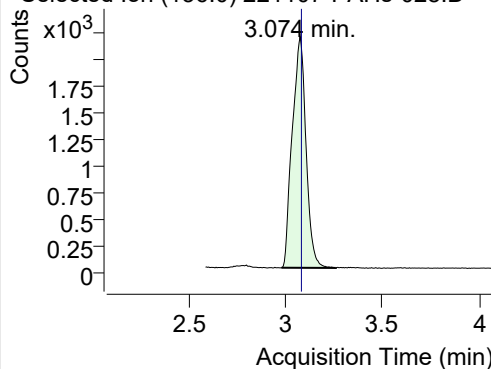
+ TIC SIM 221107-PAHs-028.D (Sample-PM-1014-10DIL)



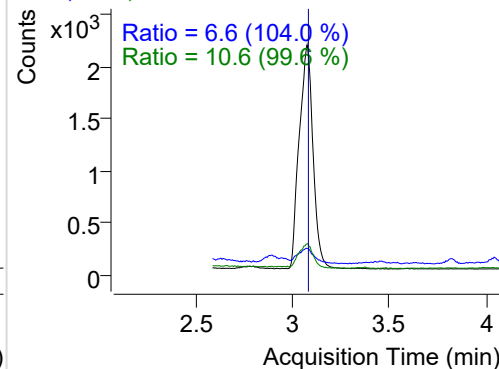
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	10588	2157.21	ND ng/ml	10.6
Naphthalene	3.101	128.0	1047	223.31	ND ng/ml	14.0
Acenaphthylene	6.144	152.0	57	22.34	ND ng/ml	68.7
IS-D10-Acenaphthene	6.469	164.0	5486	2911.44	ND ng/ml	99.3
Acenaphthene	6.534	154.0	121	64.17	ND ng/ml	111.4
LSS-D10-Fluorene	7.596	176.0	5946	3436.24	ND ng/ml	94.7
Fluorene	7.659	166.0	300	155.05	ND ng/ml	113.6
IS-D10-Phenanthrene	9.759	188.0	9558	5129.81	ND ng/ml	15.5
Phenanthrene	9.801	178.0	1528	816.18	ND ng/ml	19.2
Anthracene	9.801	178.0	1528	816.18	ND ng/ml	19.2
Fluoranthene	12.499	202.0	611	327.85	ND ng/ml	19.4
LSS-D10-Pyrene	12.944	212.0	8315	4825.68	ND ng/ml	18.2
Pyrene	12.976	202.0	638	363.94	ND ng/ml	21.2
Benz(a)anthracene	15.762	228.0	52	37.72	ND ng/ml	142.1
IS-D12-Chrysene	15.806	240.0	5732	2868.72	ND ng/ml	18.5
Chrysene	15.855	228.0	426	201.61	ND ng/ml	36.3
Benzo(b)fluoranthene	18.082	252.0	460	239.82	ND ng/ml	43.6
Benzo(k)fluoranthene	18.125	252.0	520	161.82	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	6044	2855.83	ND ng/ml	26.6
Benzo(e)pyrene	18.616	252.0	490	207.82	ND ng/ml	18.0
Benzo(a)pyrene	18.708	252.0	89	32.82	ND ng/ml	
IS-D12-Perylene	18.844	264.0	4228	1838.58	ND ng/ml	25.5
Perylene	18.708	252.0	89	32.82	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.736	276.0	142	43.87	ND ng/ml	8.3
Dibenz(a,h)anthracene	20.797	278.0	56	9.52	ND ng/ml	
Benzo(g,h,i)perylene	21.141	276.0	310	108.47	ND ng/ml	19.7
Coronene	23.409	300.0	92	30.18	ND ng/ml	

IS-D8-Naphthalene

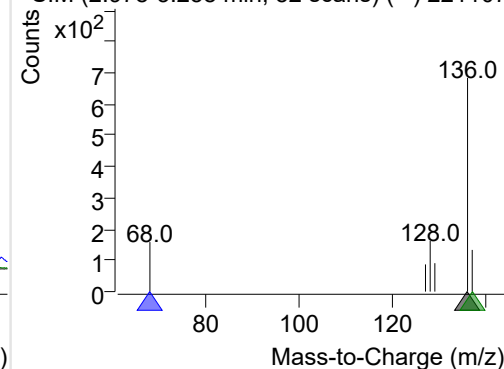
+ Selected Ion (136.0) 221107-PAHs-028.D



136.0, 68.0, 137.0

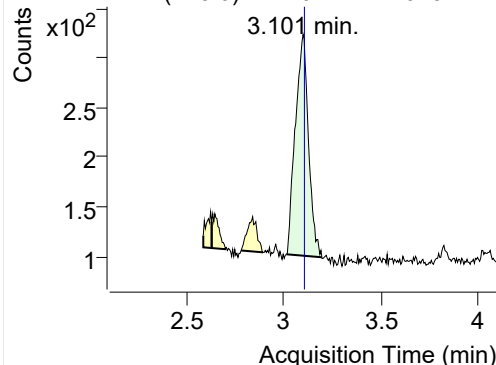


+ SIM (2.978-3.258 min, 52 scans) (**) 221107

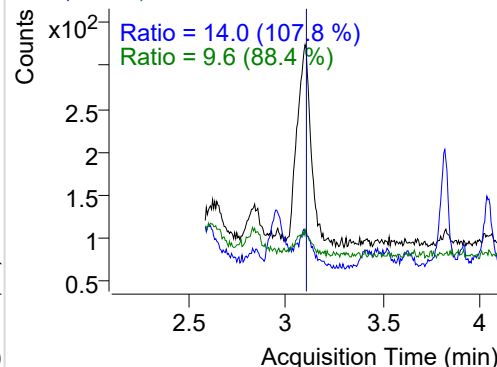


Naphthalene

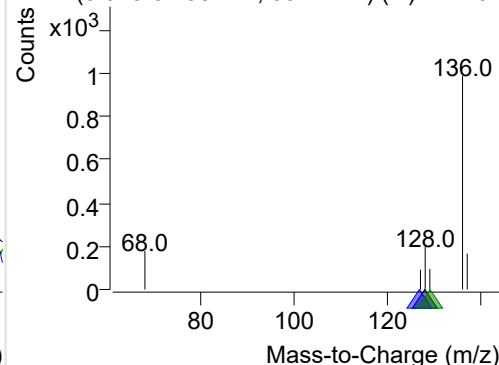
+ Selected Ion (128.0) 221107-PAHs-028.D



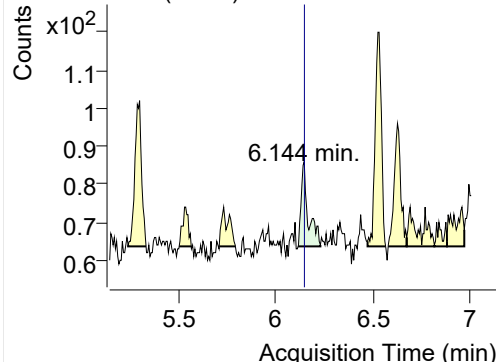
128.0, 127.0, 129.0



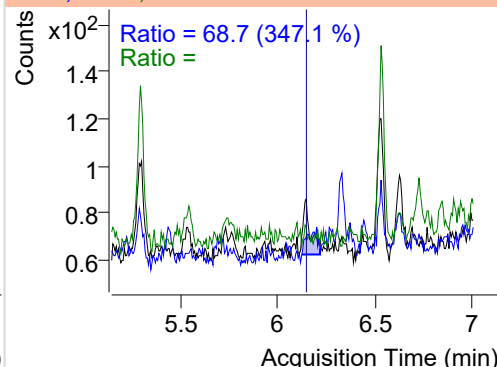
+ SIM (3.015-3.198 min, 33 scans) (**) 221107

**Acenaphthylene**

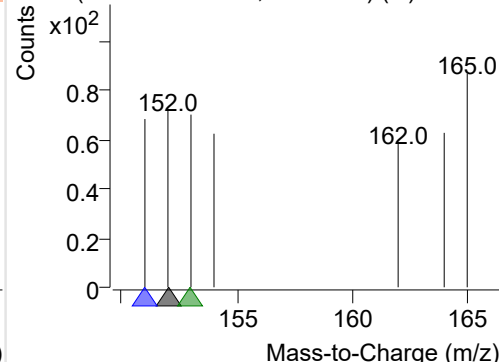
+ Selected Ion (152.0) 221107-PAHs-028.D



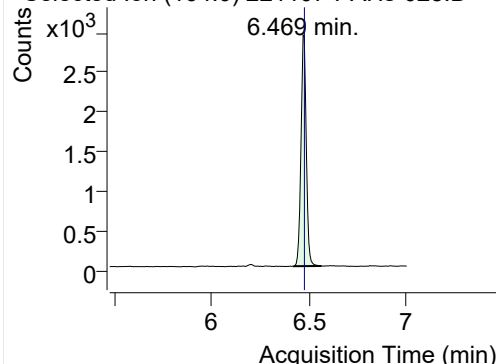
152.0, 151.0, 153.0



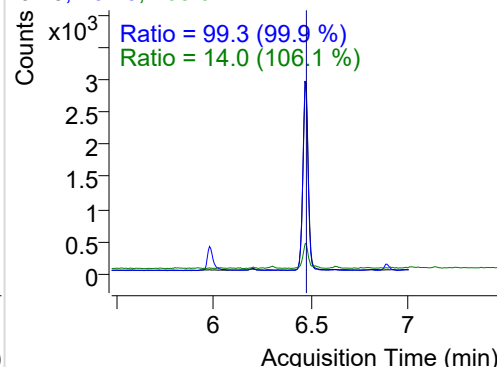
+ SIM (6.112-6.226 min, 20 scans) (**) 221107

**IS-D10-Acenaphthene**

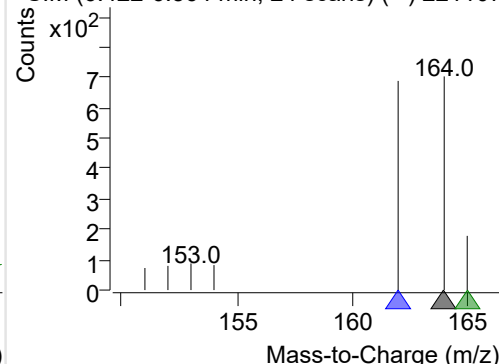
+ Selected Ion (164.0) 221107-PAHs-028.D



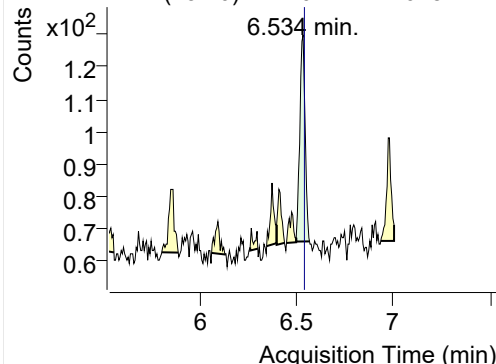
164.0, 162.0, 165.0



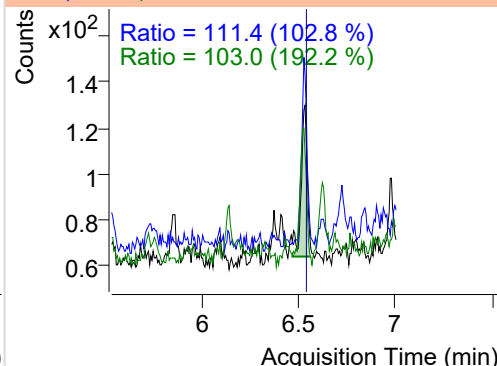
+ SIM (6.422-6.564 min, 24 scans) (**) 221107

**Acenaphthene**

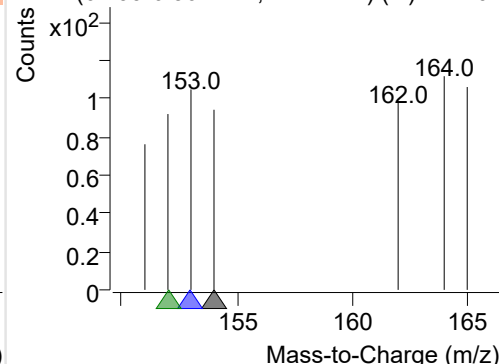
+ Selected Ion (154.0) 221107-PAHs-028.D



154.0, 153.0, 152.0

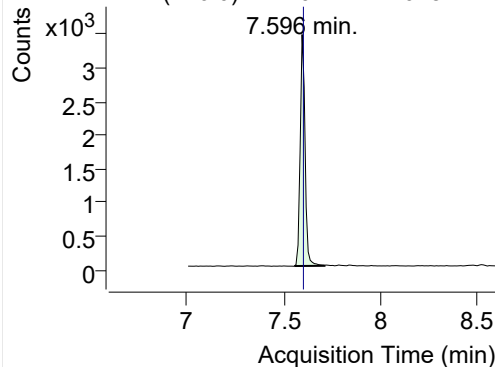


+ SIM (6.499-6.567 min, 12 scans) (**) 221107

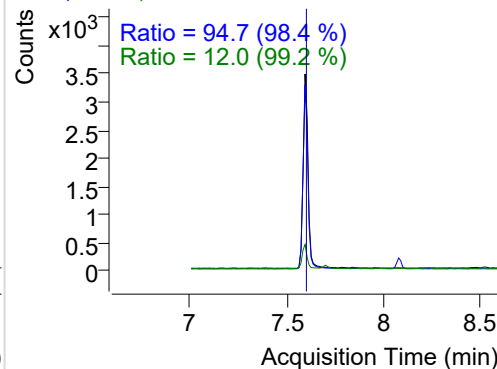


LSS-D10-Fluorene

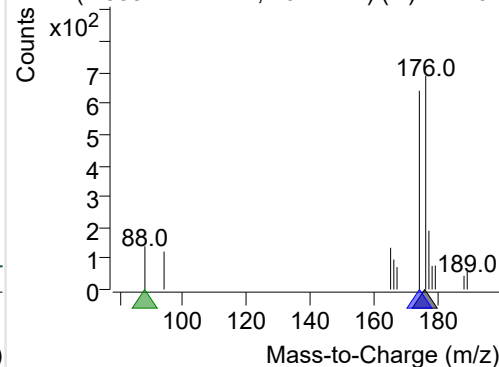
+ Selected Ion (176.0) 221107-PAHs-028.D



176.0, 174.0, 88.0

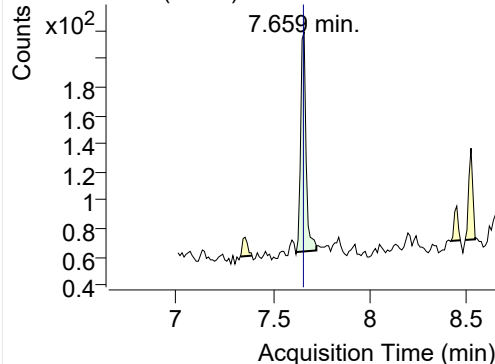


+ SIM (7.555-7.711 min, 15 scans) (**) 221107

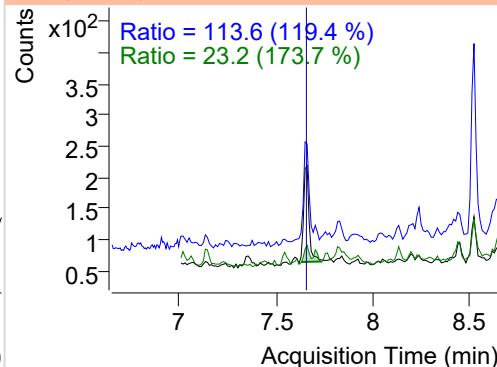


Fluorene

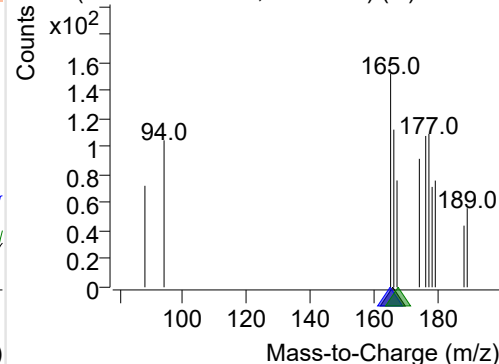
+ Selected Ion (166.0) 221107-PAHs-028.D



166.0, 165.0, 167.0

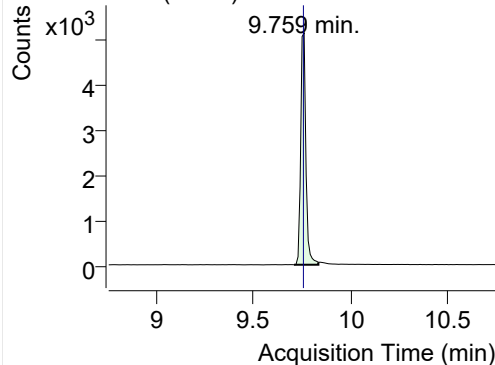


+ SIM (7.618-7.722 min, 10 scans) (**) 221107

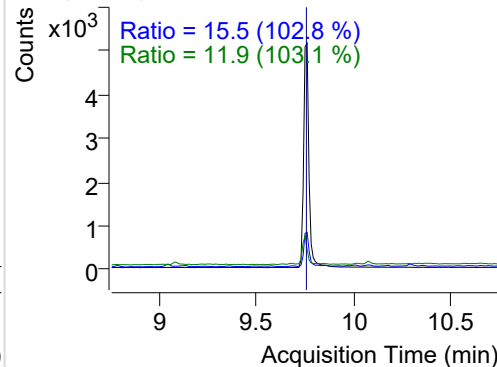


IS-D10-Phenanthrene

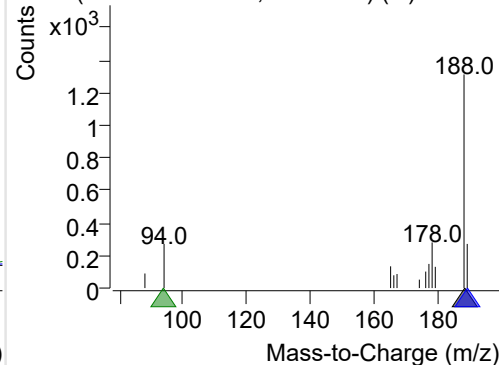
+ Selected Ion (188.0) 221107-PAHs-028.D



188.0, 189.0, 94.0

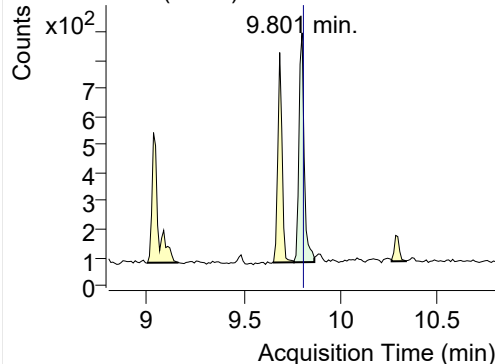


+ SIM (9.707-9.833 min, 12 scans) (**) 221107

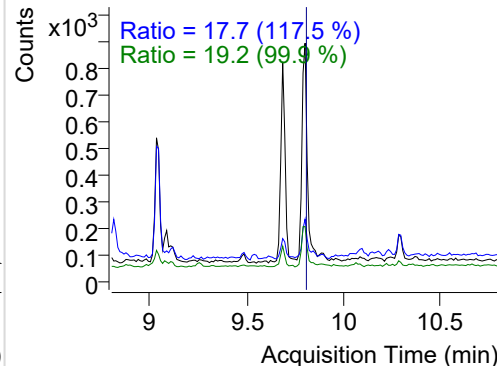


Phenanthrene

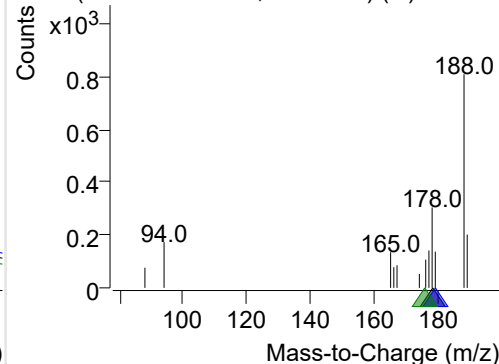
+ Selected Ion (178.0) 221107-PAHs-028.D



178.0, 179.0, 176.0

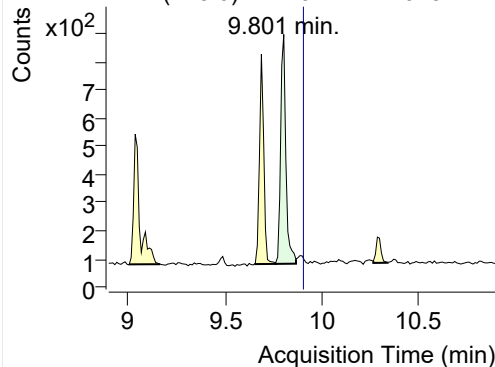


+ SIM (9.759-9.864 min, 11 scans) (**) 221107

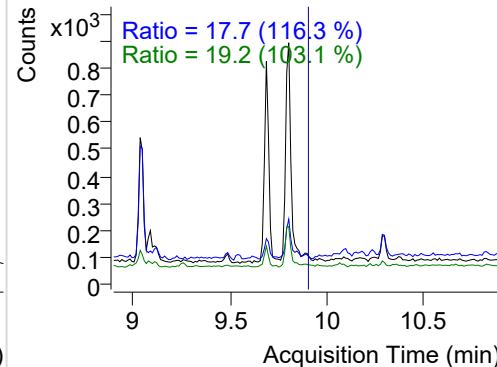


Anthracene

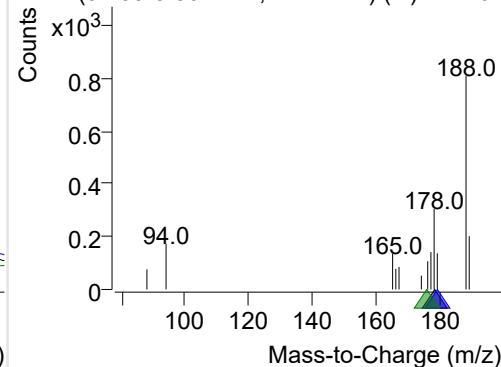
+ Selected Ion (178.0) 221107-PAHs-028.D



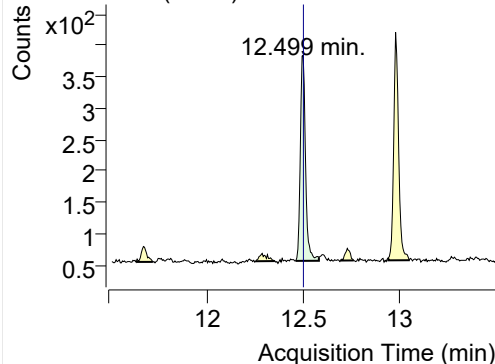
178.0, 179.0, 176.0



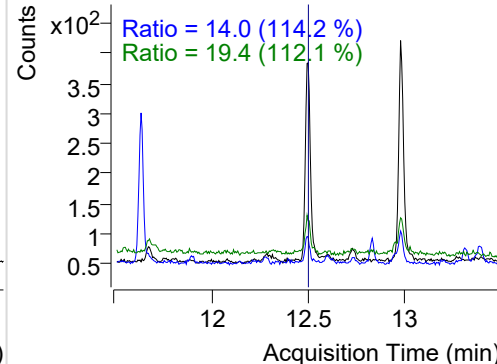
+ SIM (9.759-9.864 min, 11 scans) (**) 221107

**Fluoranthene**

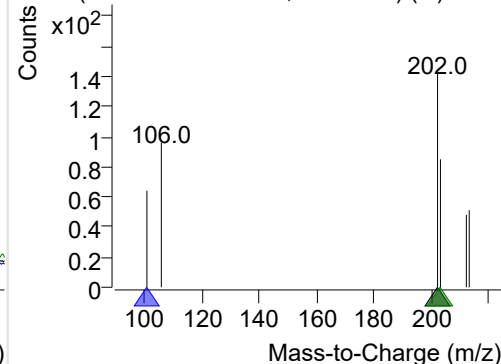
+ Selected Ion (202.0) 221107-PAHs-028.D



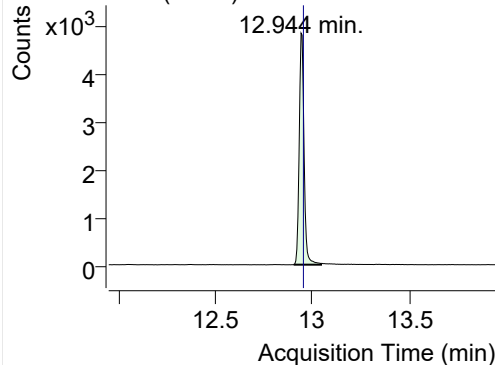
202.0, 101.0, 203.0



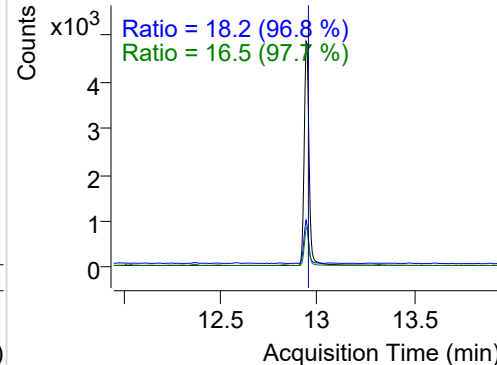
+ SIM (12.461-12.581 min, 22 scans) (**) 2211

**LSS-D10-Pyrene**

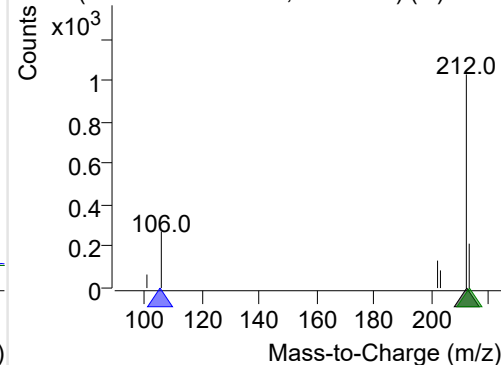
+ Selected Ion (212.0) 221107-PAHs-028.D



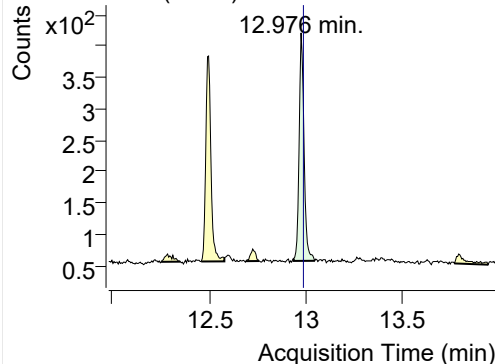
212.0, 106.0, 213.0



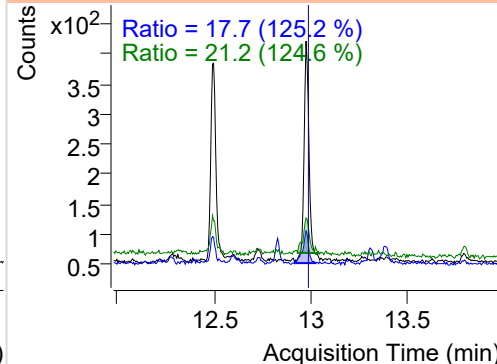
+ SIM (12.906-13.047 min, 26 scans) (**) 2211

**Pyrene**

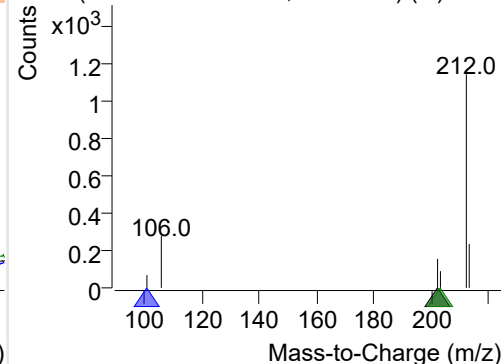
+ Selected Ion (202.0) 221107-PAHs-028.D



202.0, 101.0, 203.0



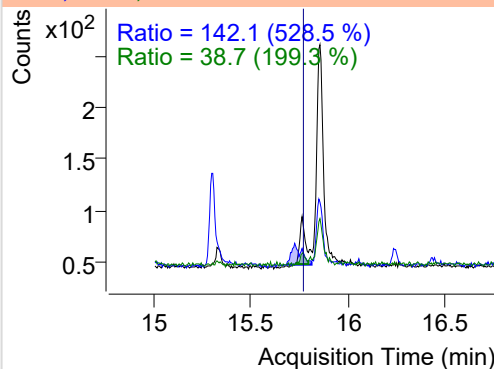
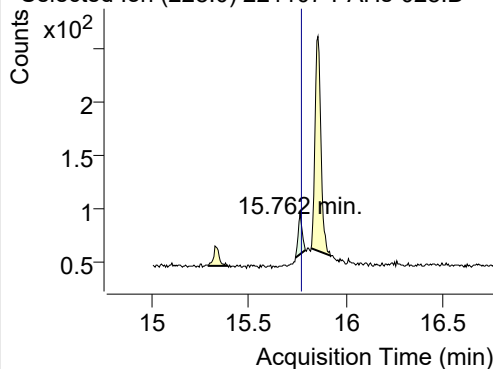
+ SIM (12.938-13.046 min, 20 scans) (**) 2211



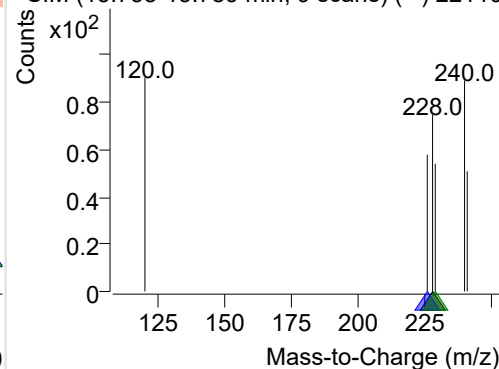
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-028.D

228.0, 226.0, 229.0

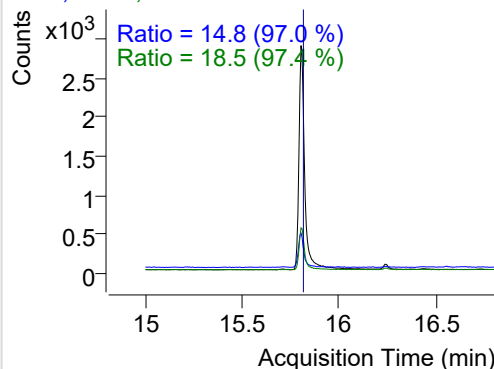
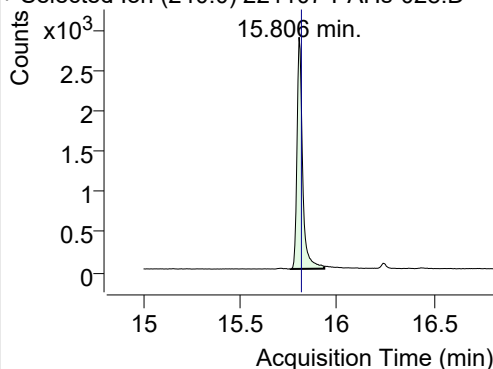


+ SIM (15.738-15.789 min, 9 scans) (**) 22110

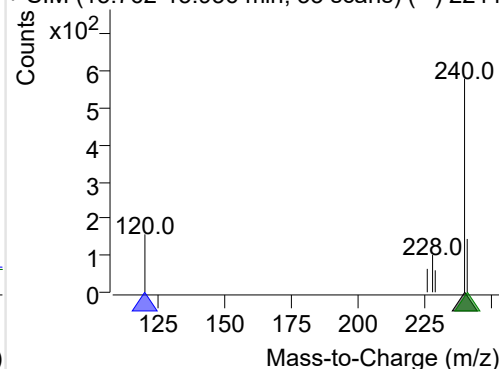
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-028.D

240.0, 120.0, 241.0

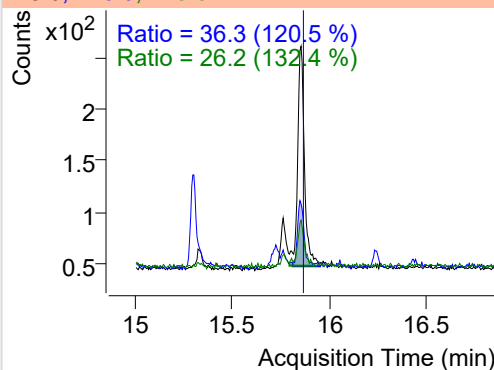
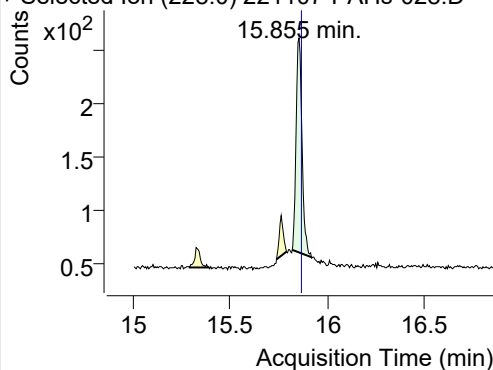


+ SIM (15.762-15.936 min, 33 scans) (**) 2211

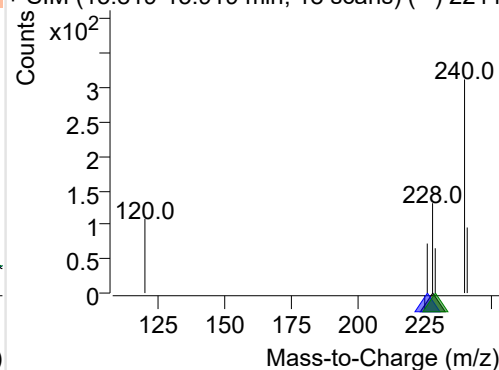
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-028.D

228.0, 226.0, 229.0

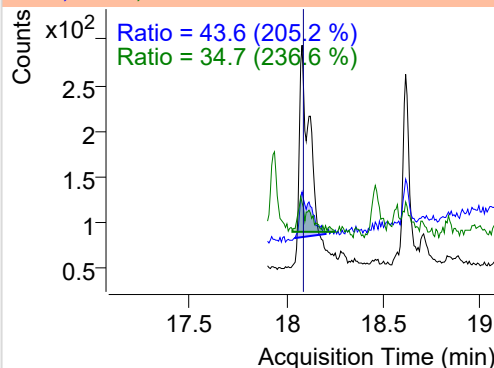
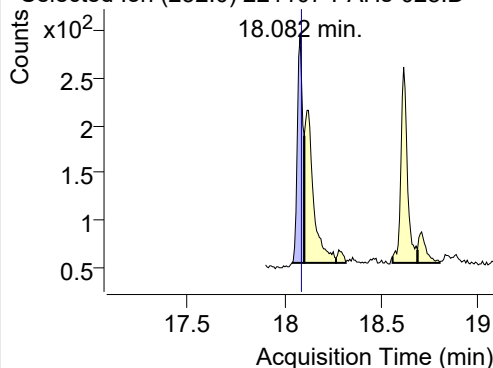


+ SIM (15.819-15.919 min, 18 scans) (**) 2211

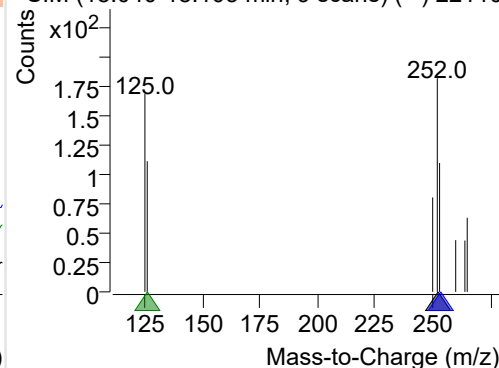
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-028.D

252.0, 253.0, 126.0



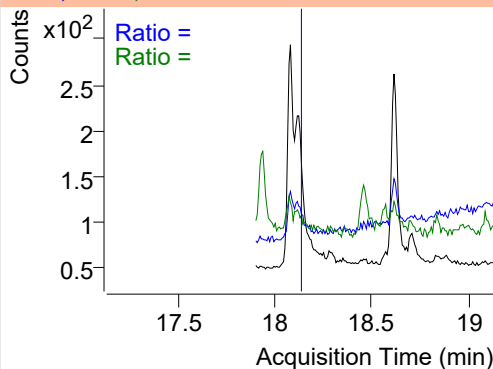
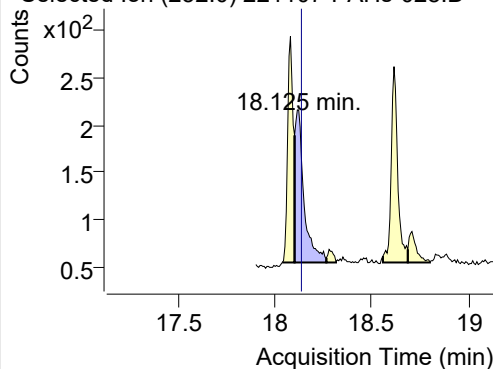
+ SIM (18.040-18.103 min, 9 scans) (**) 22110



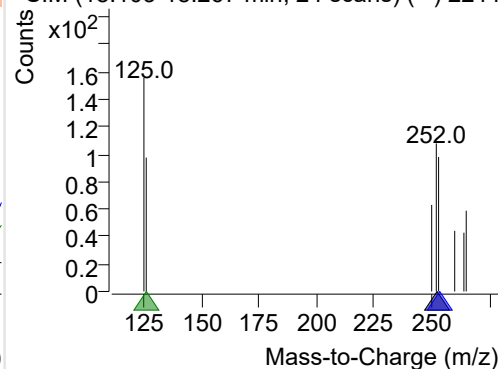
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-028.D

252.0, 253.0, 126.0

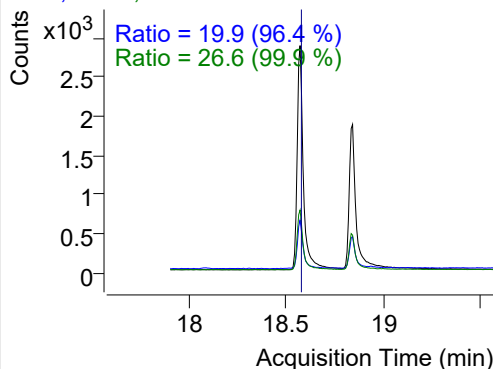
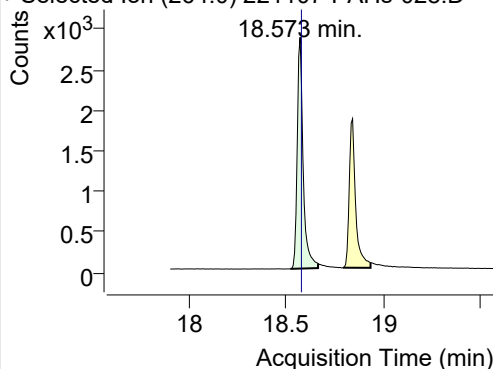


+ SIM (18.103-18.267 min, 24 scans) (**) 2211

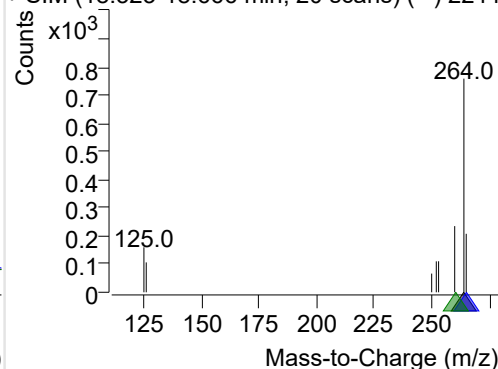
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-028.D

264.0, 265.0, 260.0

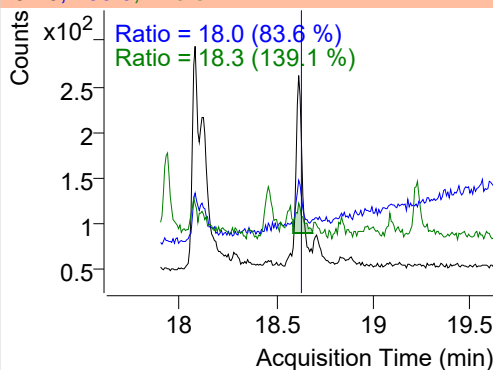
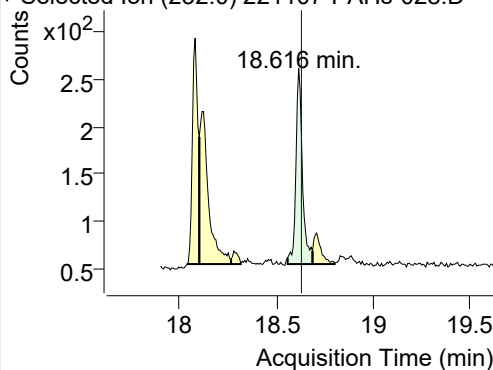


+ SIM (18.523-18.666 min, 20 scans) (**) 2211

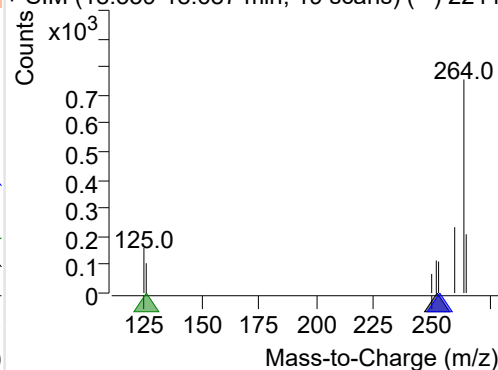
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-028.D

252.0, 253.0, 126.0

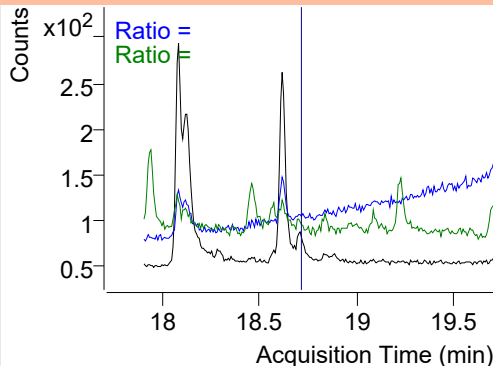
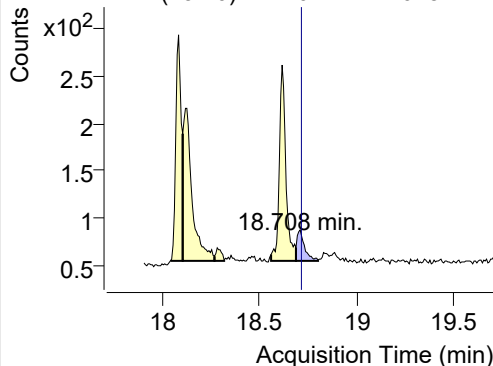


+ SIM (18.559-18.687 min, 19 scans) (**) 2211

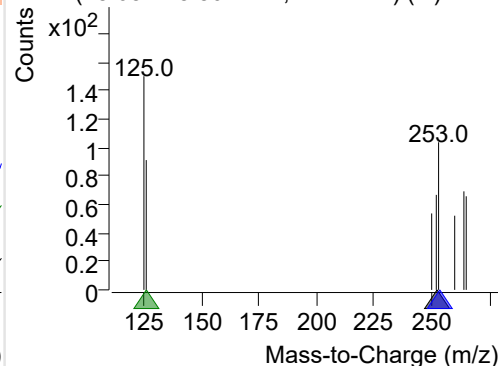
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-028.D

252.0, 253.0, 126.0

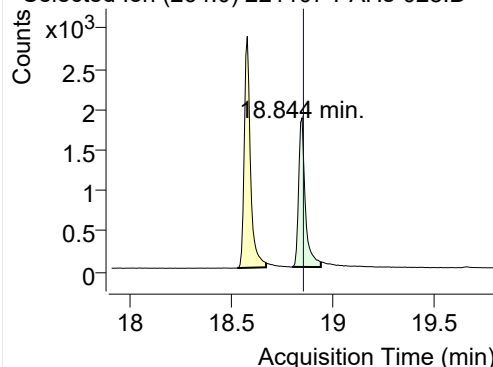


+ SIM (18.687-18.801 min, 17 scans) (**) 2211

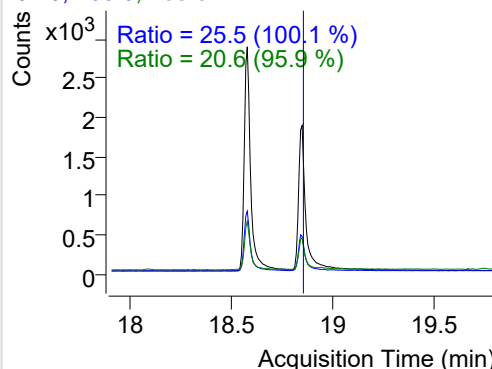


IS-D12-Perylene

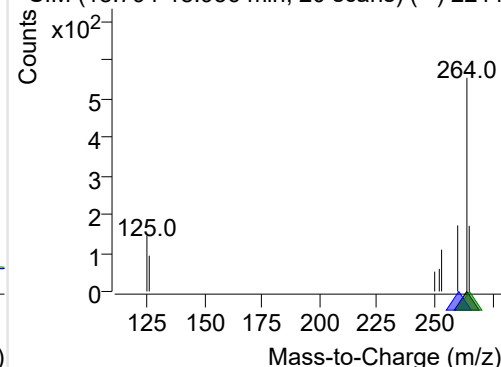
+ Selected Ion (264.0) 221107-PAHs-028.D



264.0, 260.0, 265.0

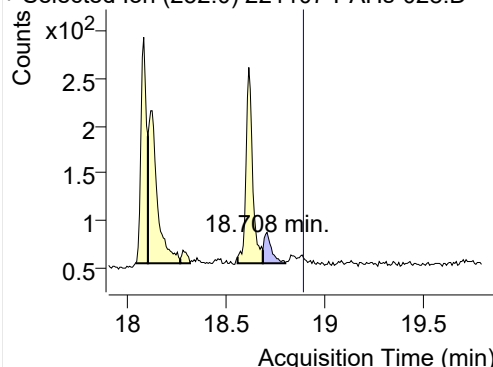


+ SIM (18.794-18.936 min, 20 scans) (**) 2211

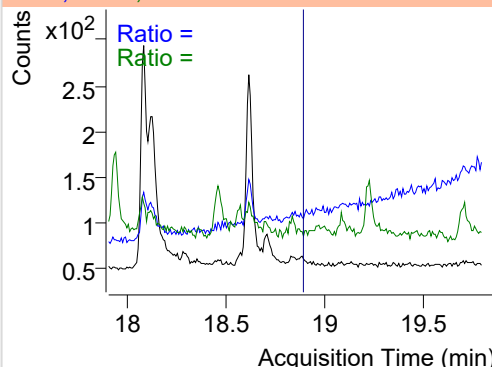


Perylene

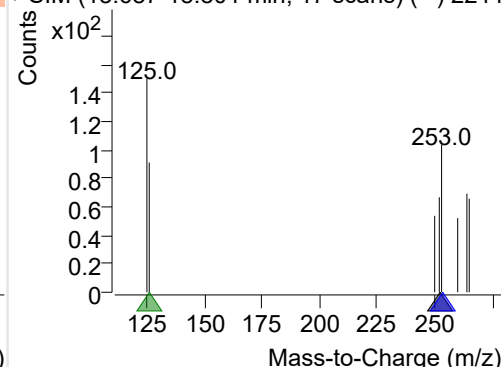
+ Selected Ion (252.0) 221107-PAHs-028.D



252.0, 253.0, 126.0

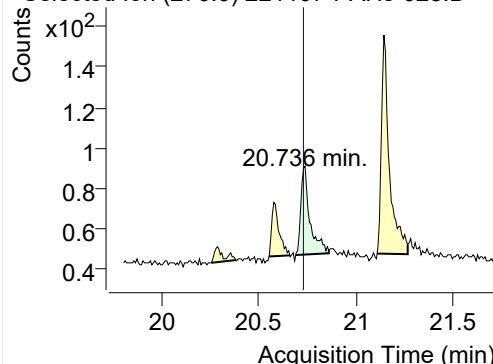


+ SIM (18.687-18.801 min, 17 scans) (**) 2211

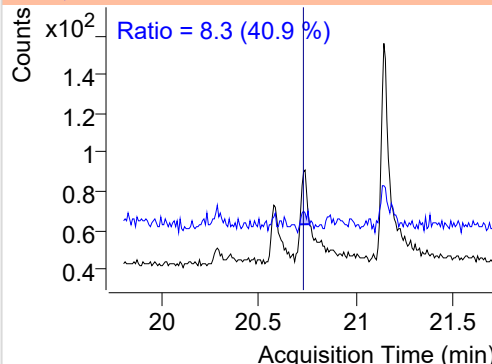


Indeno(1,2,3-c,d)pyrene

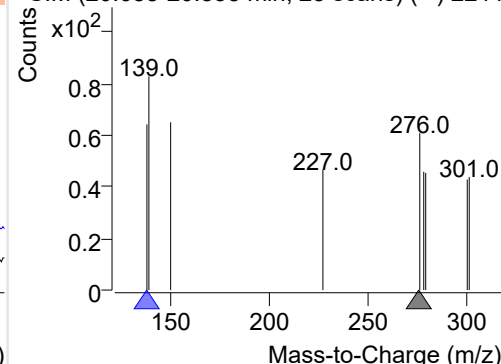
+ Selected Ion (276.0) 221107-PAHs-028.D



276.0, 138.0

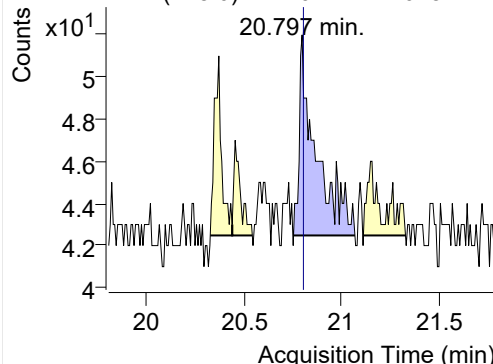


+ SIM (20.688-20.858 min, 23 scans) (**) 2211

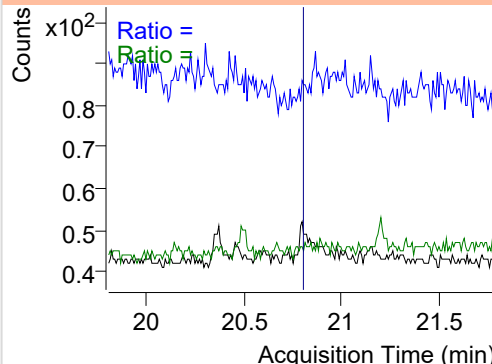


Dibenz(a,h)anthracene

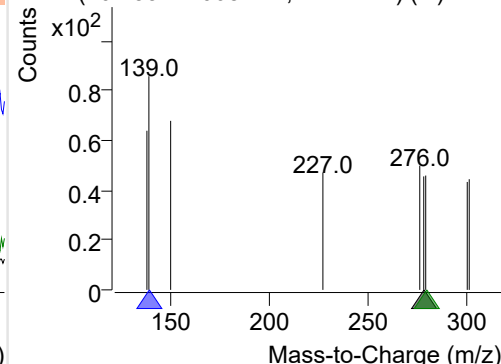
+ Selected Ion (278.0) 221107-PAHs-028.D



278.0, 139.0, 279.0

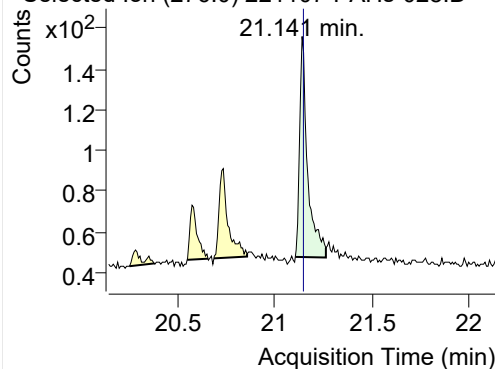


+ SIM (20.753-21.068 min, 41 scans) (**) 2211

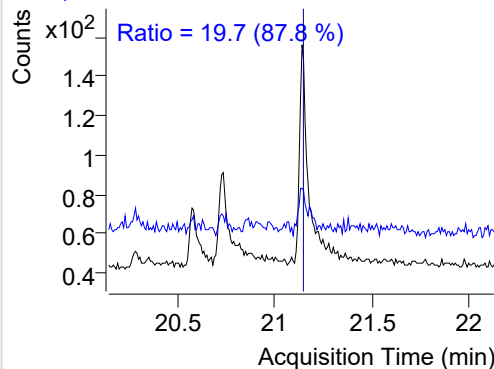


Benzo(g,h,i)perylene

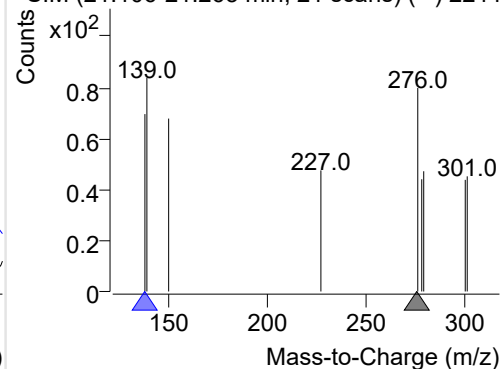
+ Selected Ion (276.0) 221107-PAHs-028.D



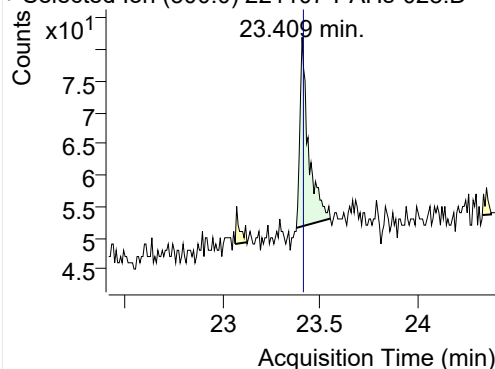
276.0, 138.0



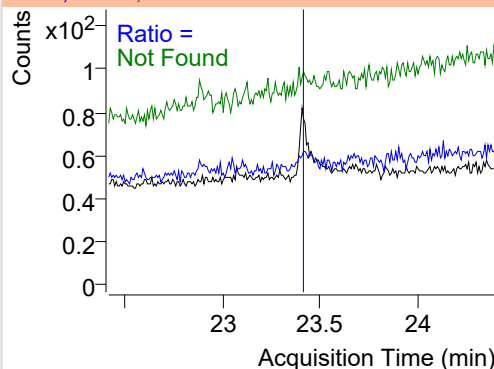
+ SIM (21.106-21.263 min, 21 scans) (**) 2211

**Coronene**

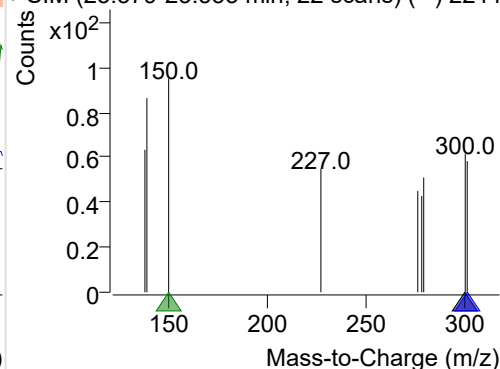
+ Selected Ion (300.0) 221107-PAHs-028.D



300.0, 301.0, 150.0



+ SIM (23.379-23.553 min, 22 scans) (**) 2211



Quantitative Analysis Sample Based Report

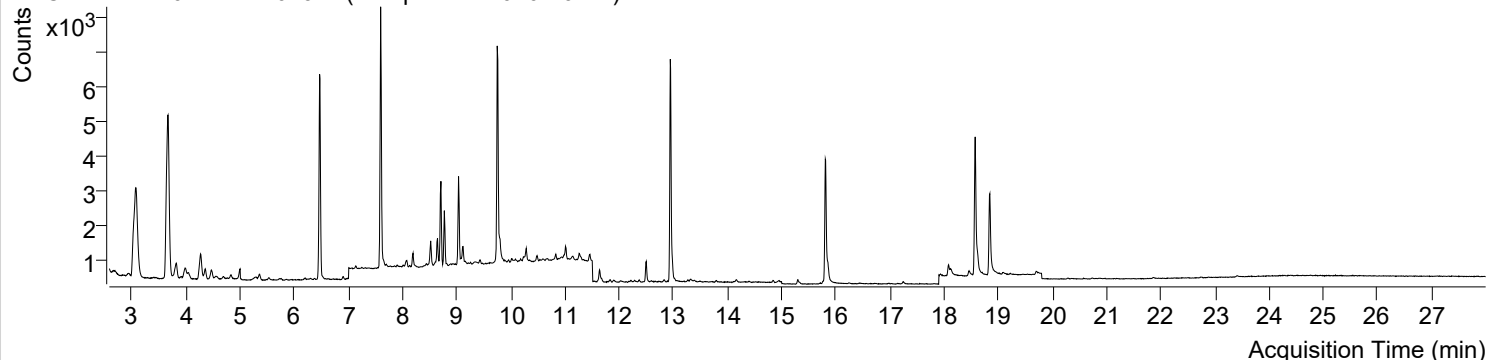


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 6:31:33	Data File	221107-PAHs-029.D
Type	Sample	Name	Sample-PM-1020-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

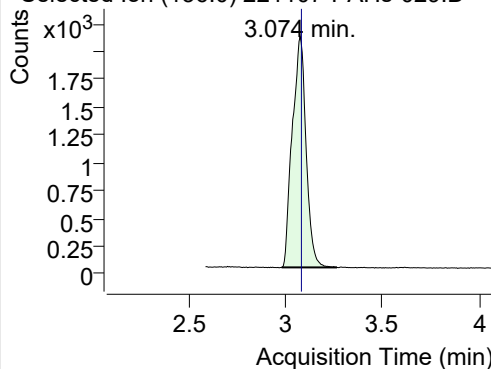
+ TIC SIM 221107-PAHs-029.D (Sample-PM-1020-10DIL)



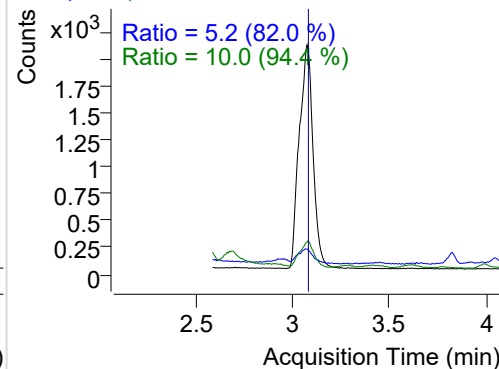
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	10227	2076.88	ND ng/ml	10.0
Naphthalene	3.101	128.0	998	205.07	ND ng/ml	14.2
Acenaphthylene	6.179	152.0	63	12.05	ND ng/ml	89.9
IS-D10-Acenaphthene	6.469	164.0	5234	2799.44	ND ng/ml	99.1
Acenaphthene	6.534	154.0	28	16.73	ND ng/ml	141.6
LSS-D10-Fluorene	7.596	176.0	5798	3346.64	ND ng/ml	93.6
Fluorene	7.659	166.0	71	36.44	ND ng/ml	117.1
IS-D10-Phenanthrene	9.748	188.0	9214	4827.30	ND ng/ml	15.2
Phenanthrene	9.801	178.0	611	321.88	ND ng/ml	18.5
Anthracene	9.801	178.0	611	321.88	ND ng/ml	18.5
Fluoranthene	12.499	202.0	796	443.67	ND ng/ml	18.5
LSS-D10-Pyrene	12.944	212.0	8152	4739.05	ND ng/ml	17.6
Pyrene	12.976	202.0	610	326.67	ND ng/ml	26.4
Benz(a)anthracene	15.762	228.0	97	47.04	ND ng/ml	34.7
IS-D12-Chrysene	15.806	240.0	5664	2676.66	ND ng/ml	18.5
Chrysene	15.854	228.0	590	244.05	ND ng/ml	28.9
Benzo(b)fluoranthene	18.082	252.0	239	140.90	ND ng/ml	58.3
Benzo(k)fluoranthene	18.124	252.0	394	116.97	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	5702	2636.67	ND ng/ml	29.8
Benzo(e)pyrene	18.616	252.0	397	179.21	ND ng/ml	23.8
Benzo(a)pyrene	18.616	252.0	397	179.21	ND ng/ml	23.8
IS-D12-Perylene	18.843	264.0	3752	1589.47	ND ng/ml	25.5
Perylene	18.616	252.0	397	179.21	ND ng/ml	23.8
Indeno(1,2,3-c,d)pyrene	20.728	276.0	97	25.44	ND ng/ml	
Dibenz(a,h)anthracene	20.812	278.0	30	6.44	ND ng/ml	
Benzo(g,h,i)perylene	20.728	276.0	97	25.44	ND ng/ml	
Coronene	23.408	300.0	113	26.42	ND ng/ml	

IS-D8-Naphthalene

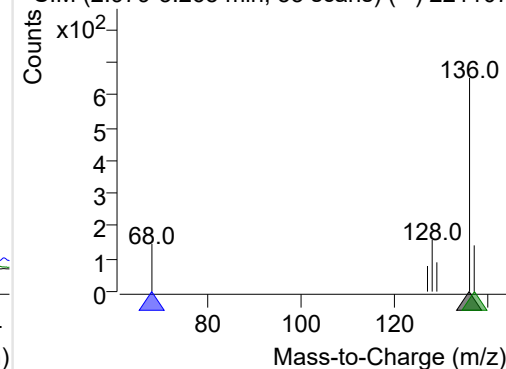
+ Selected Ion (136.0) 221107-PAHs-029.D



136.0, 68.0, 137.0

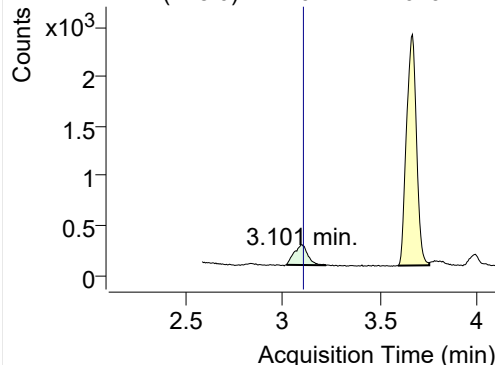


+ SIM (2.979-3.265 min, 53 scans) (**) 221107

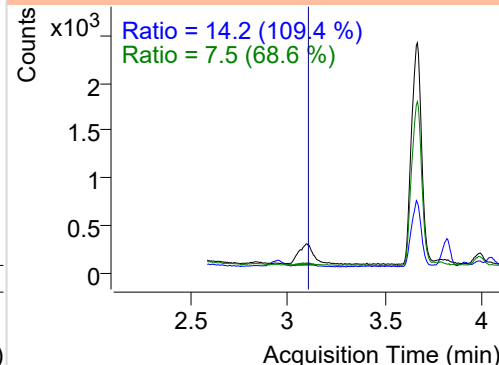


Naphthalene

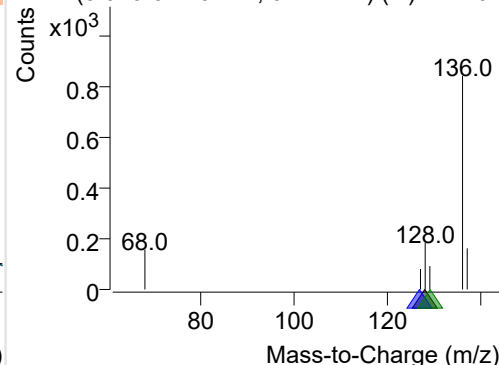
+ Selected Ion (128.0) 221107-PAHs-029.D



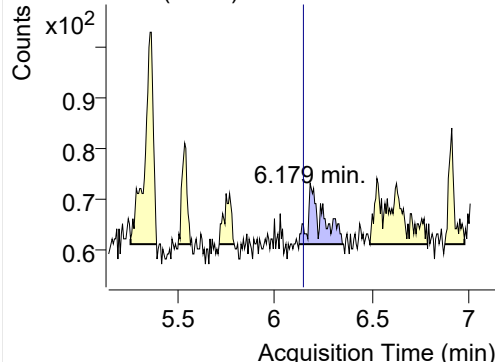
128.0, 127.0, 129.0



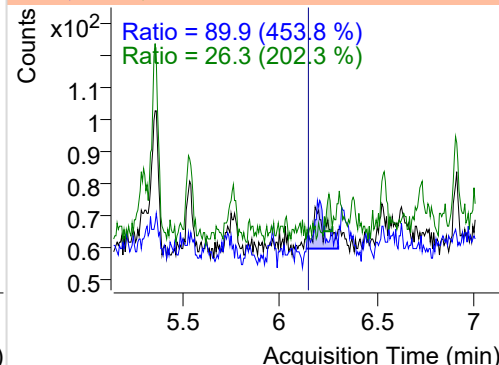
+ SIM (3.020-3.225 min, 37 scans) (**) 221107

**Acenaphthylene**

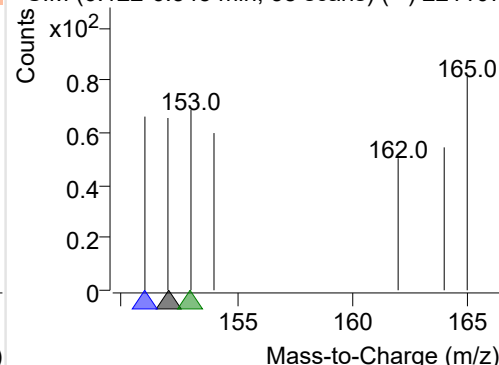
+ Selected Ion (152.0) 221107-PAHs-029.D



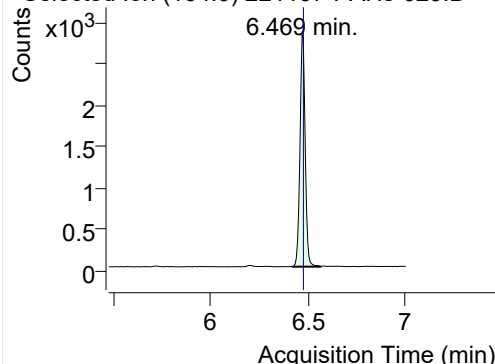
152.0, 151.0, 153.0



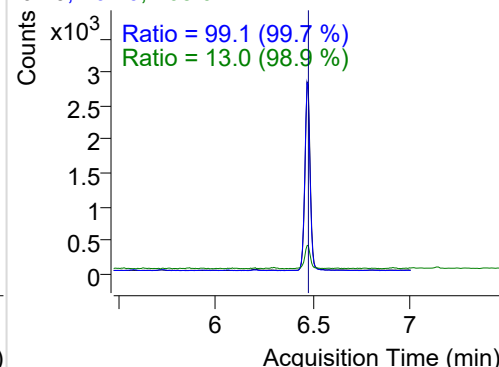
+ SIM (6.122-6.345 min, 38 scans) (**) 221107

**IS-D10-Acenaphthene**

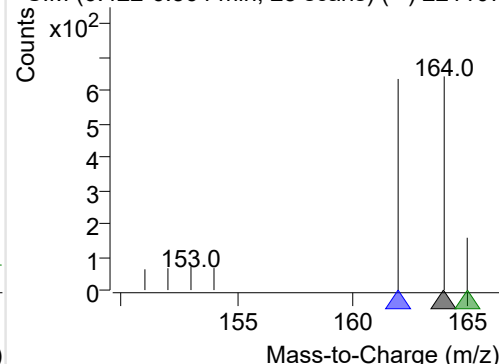
+ Selected Ion (164.0) 221107-PAHs-029.D



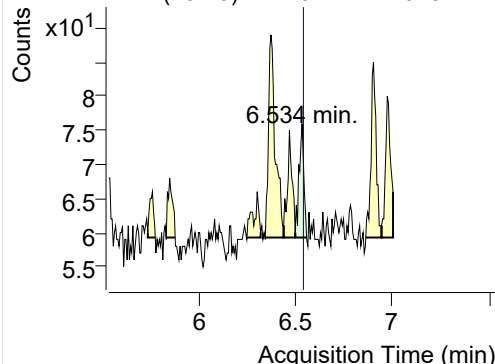
164.0, 162.0, 165.0



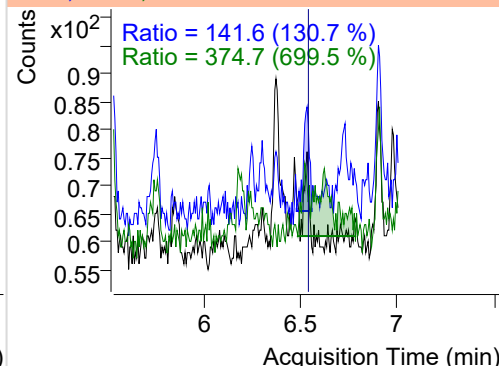
+ SIM (6.422-6.564 min, 25 scans) (**) 221107

**Acenaphthene**

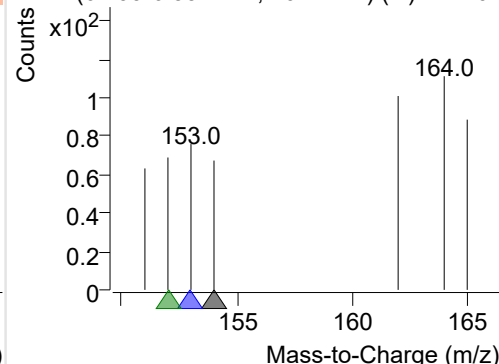
+ Selected Ion (154.0) 221107-PAHs-029.D



154.0, 153.0, 152.0

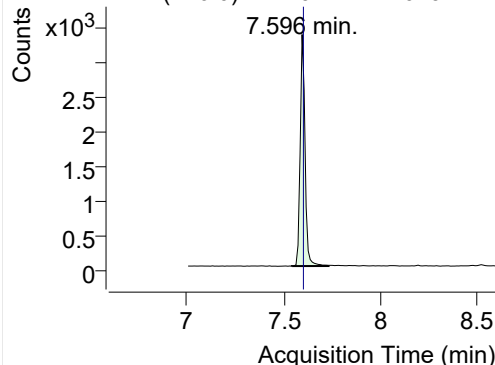


+ SIM (6.499-6.557 min, 10 scans) (**) 221107

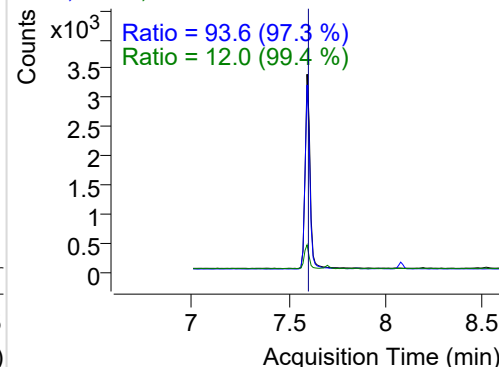


LSS-D10-Fluorene

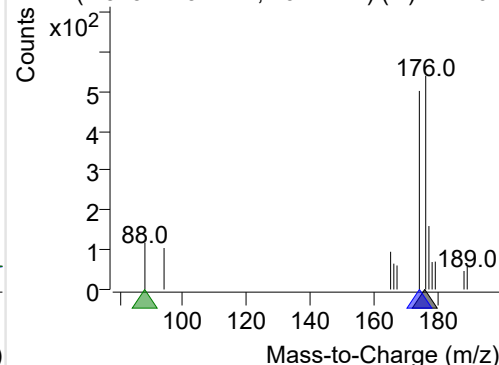
+ Selected Ion (176.0) 221107-PAHs-029.D



176.0, 174.0, 88.0

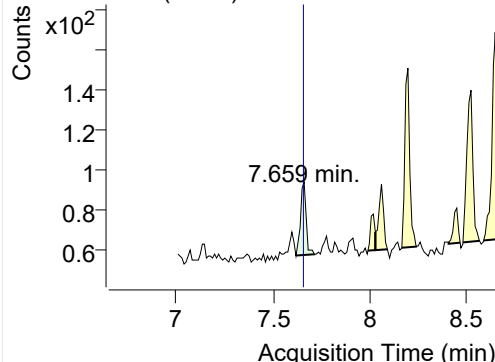


+ SIM (7.543-7.732 min, 19 scans) (**) 221107

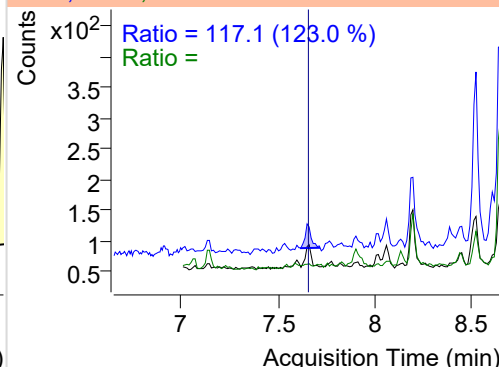


Fluorene

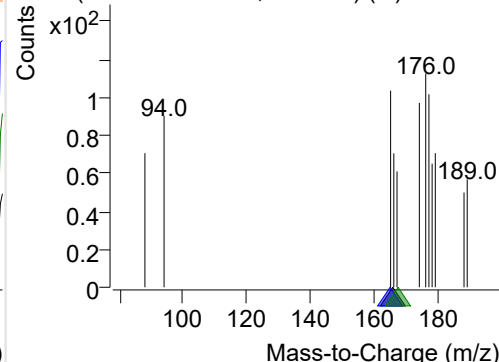
+ Selected Ion (166.0) 221107-PAHs-029.D



166.0, 165.0, 167.0

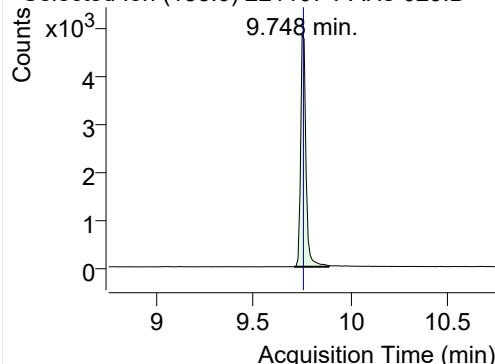


+ SIM (7.617-7.711 min, 9 scans) (**) 221107-I

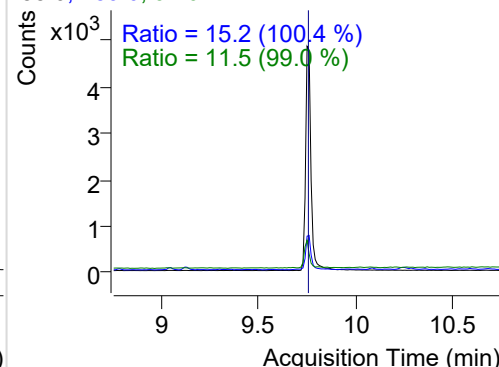


IS-D10-Phenanthrene

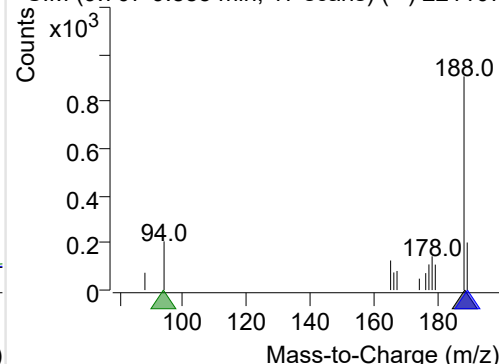
+ Selected Ion (188.0) 221107-PAHs-029.D



188.0, 189.0, 94.0

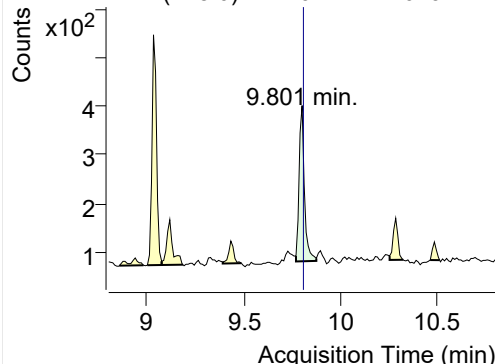


+ SIM (9.707-9.885 min, 17 scans) (**) 221107

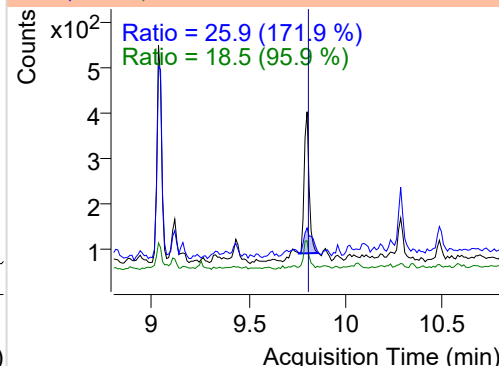


Phenanthrene

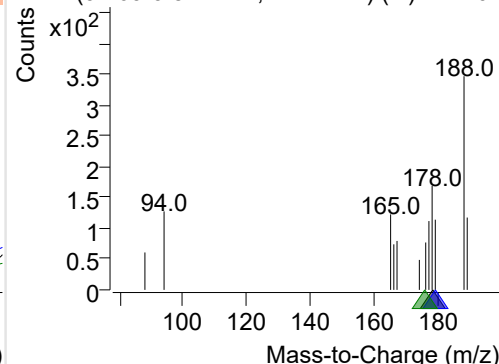
+ Selected Ion (178.0) 221107-PAHs-029.D



178.0, 179.0, 176.0

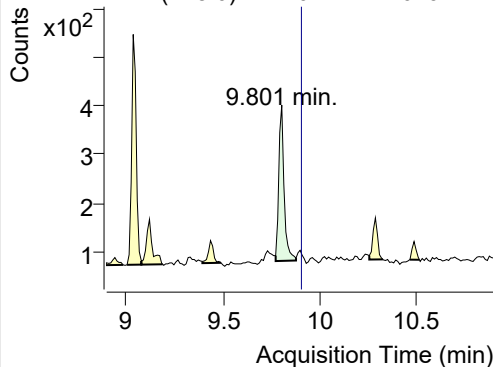


+ SIM (9.769-9.874 min, 11 scans) (**) 221107

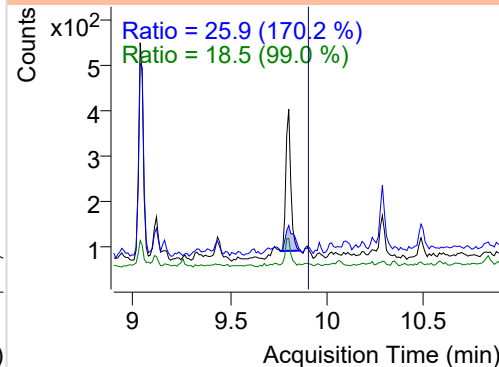


Anthracene

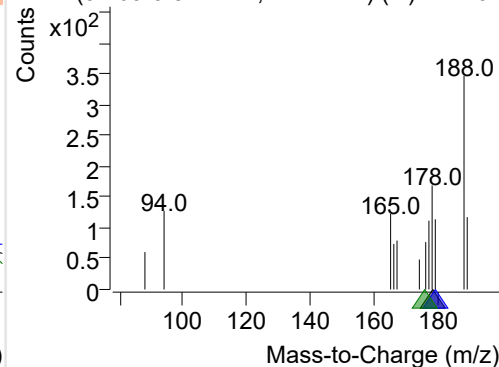
+ Selected Ion (178.0) 221107-PAHs-029.D



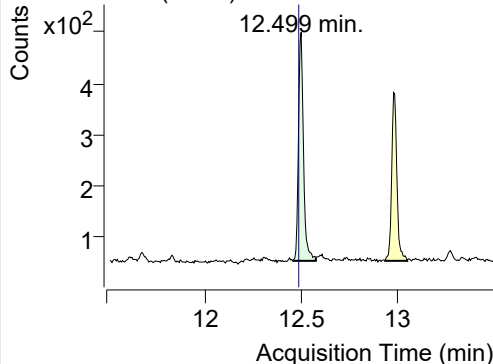
178.0, 179.0, 176.0



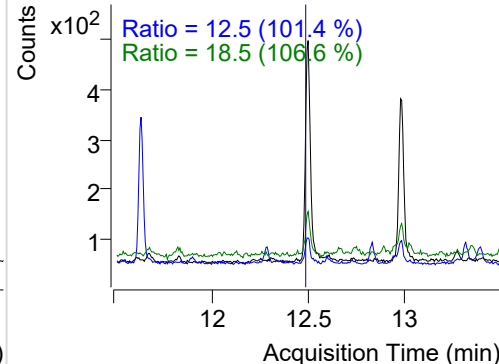
+ SIM (9.769-9.874 min, 11 scans) (**) 221107

**Fluoranthene**

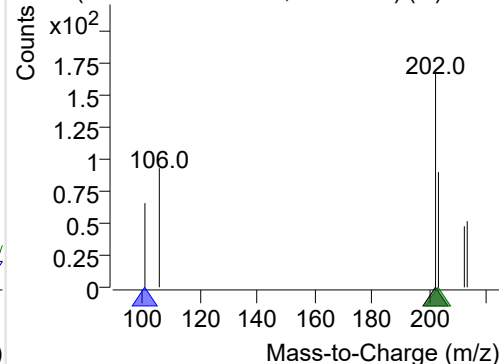
+ Selected Ion (202.0) 221107-PAHs-029.D



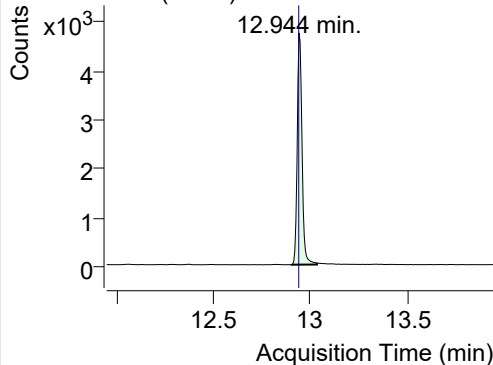
202.0, 101.0, 203.0



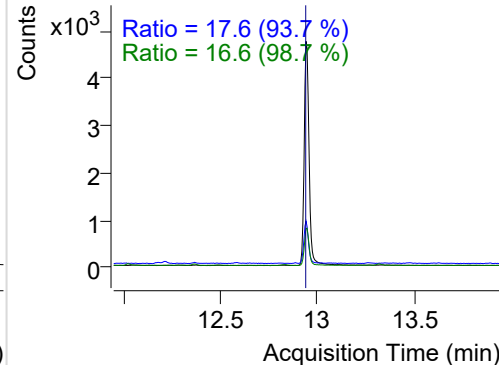
+ SIM (12.456-12.575 min, 22 scans) (**) 2211

**LSS-D10-Pyrene**

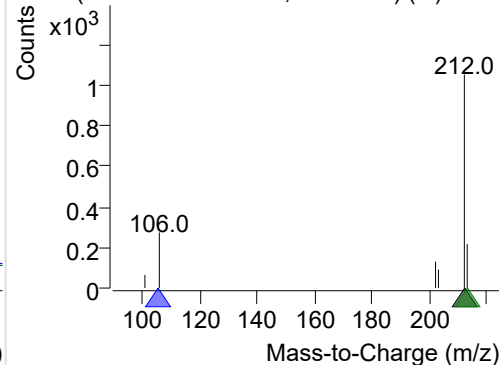
+ Selected Ion (212.0) 221107-PAHs-029.D



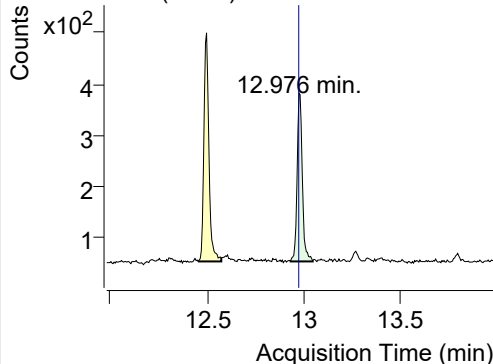
212.0, 106.0, 213.0



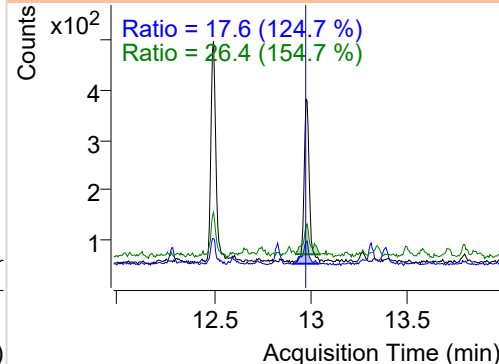
+ SIM (12.906-13.036 min, 25 scans) (**) 2211

**Pyrene**

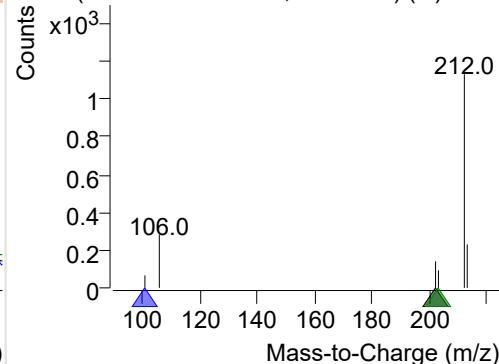
+ Selected Ion (202.0) 221107-PAHs-029.D



202.0, 101.0, 203.0



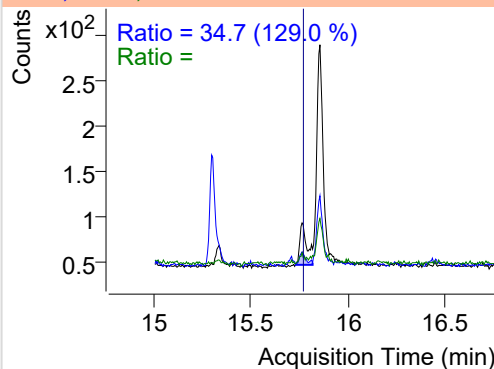
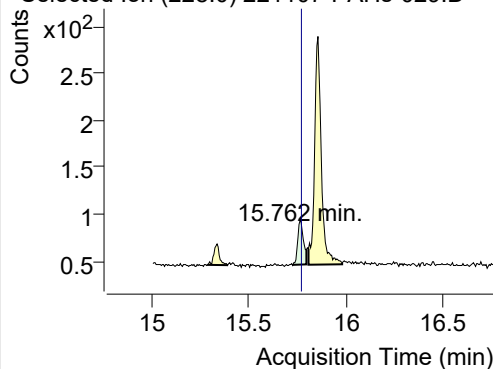
+ SIM (12.933-13.047 min, 22 scans) (**) 2211



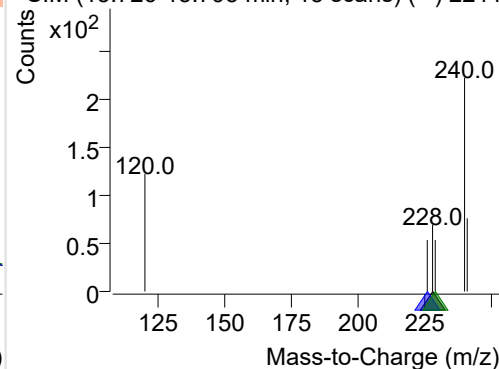
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-029.D

228.0, 226.0, 229.0

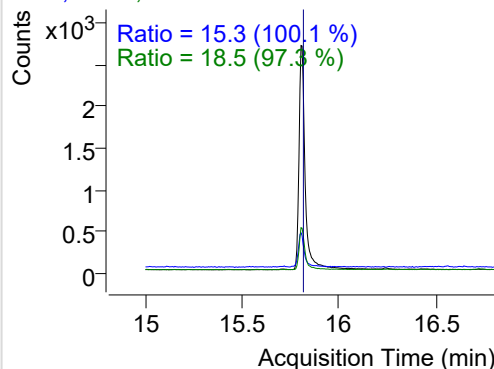
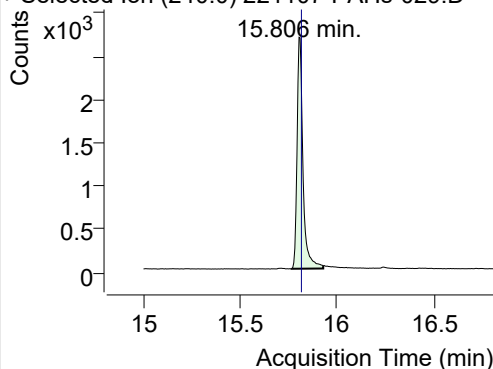


+ SIM (15.726-15.795 min, 13 scans) (**) 2211

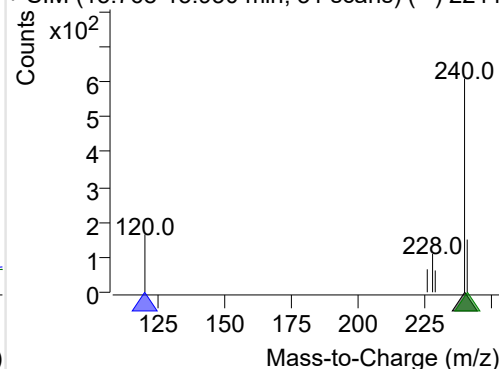
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-029.D

240.0, 120.0, 241.0

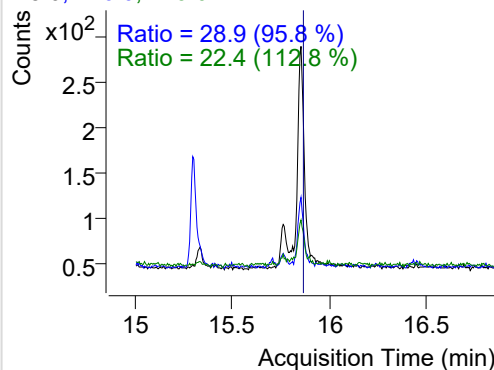
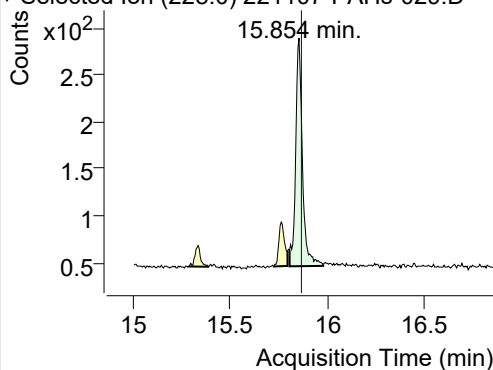


+ SIM (15.768-15.930 min, 31 scans) (**) 2211

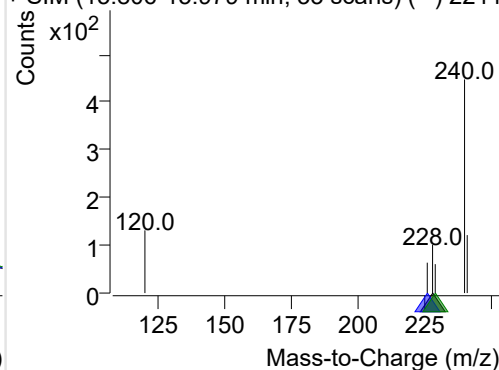
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-029.D

228.0, 226.0, 229.0

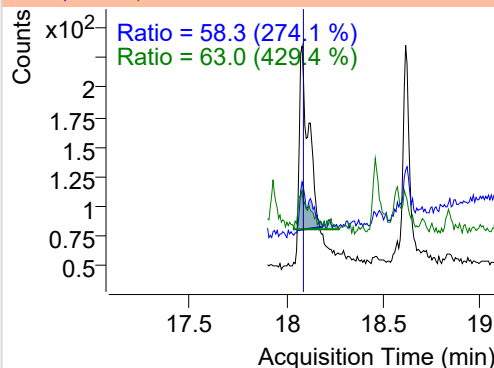
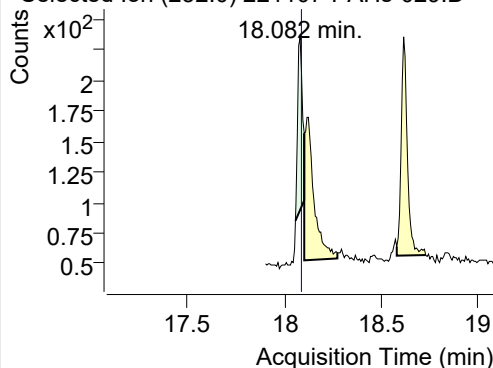


+ SIM (15.806-15.979 min, 33 scans) (**) 2211

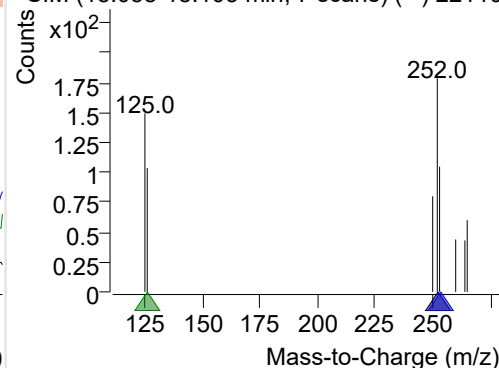
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-029.D

252.0, 253.0, 126.0



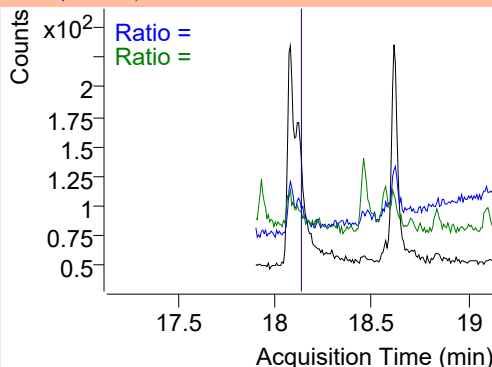
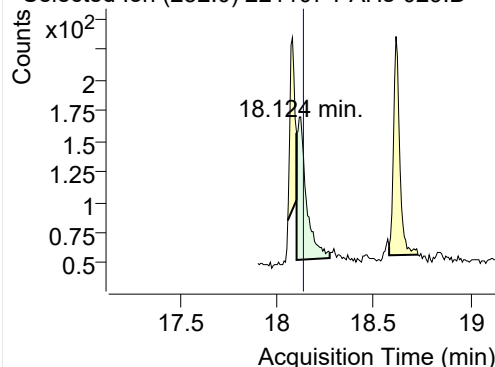
+ SIM (18.058-18.103 min, 7 scans) (**) 22110



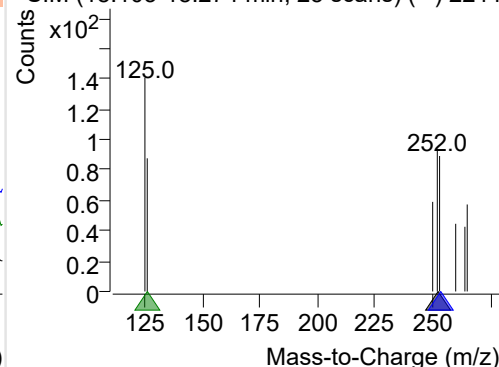
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-029.D

252.0, 253.0, 126.0

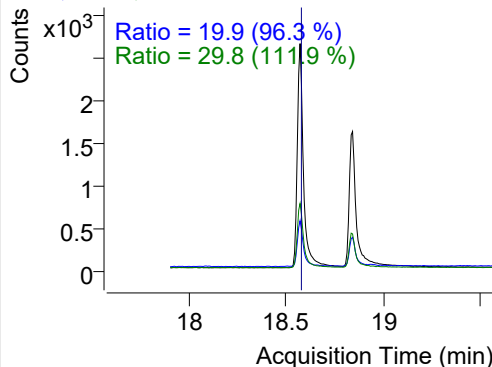
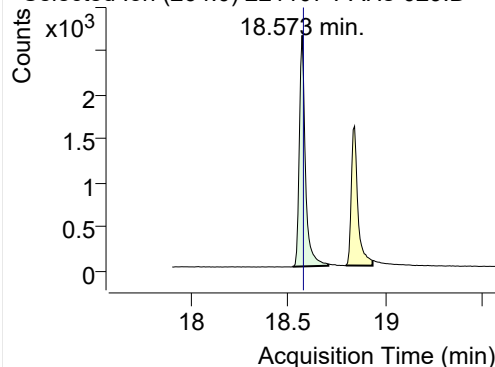


+ SIM (18.103-18.274 min, 25 scans) (**) 2211

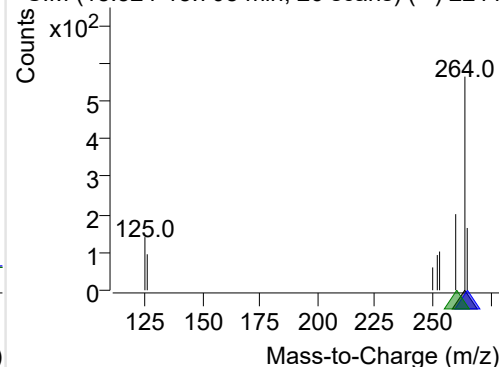
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-029.D

264.0, 265.0, 260.0

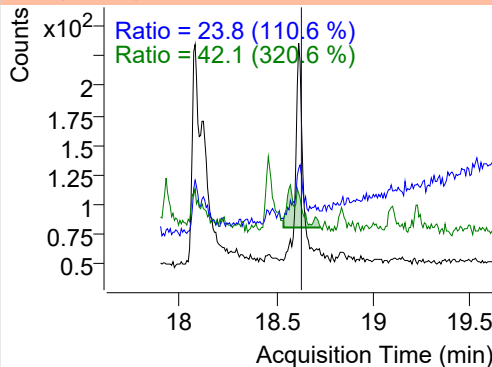
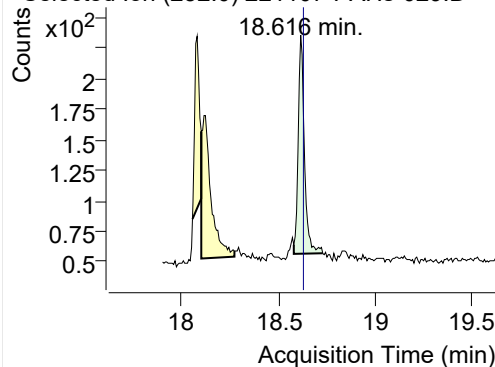


+ SIM (18.524-18.708 min, 26 scans) (**) 2211

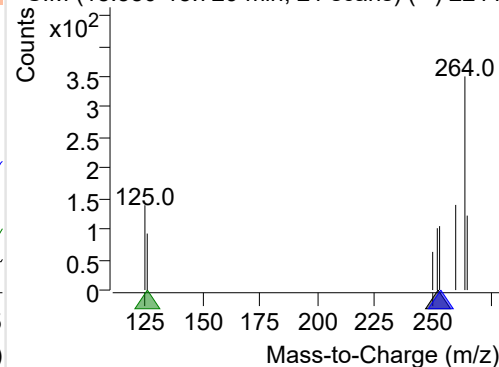
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-029.D

252.0, 253.0, 126.0

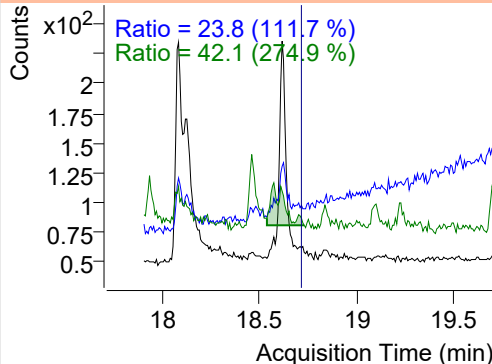
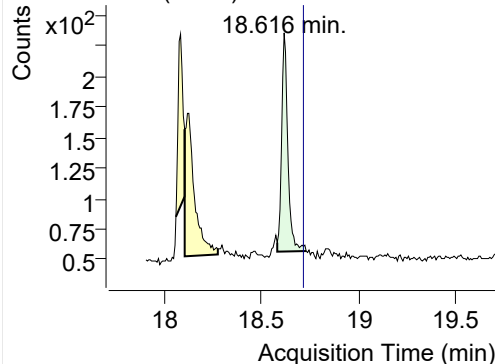


+ SIM (18.580-18.729 min, 21 scans) (**) 2211

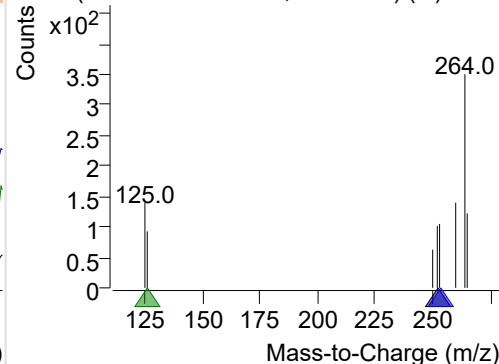
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-029.D

252.0, 253.0, 126.0

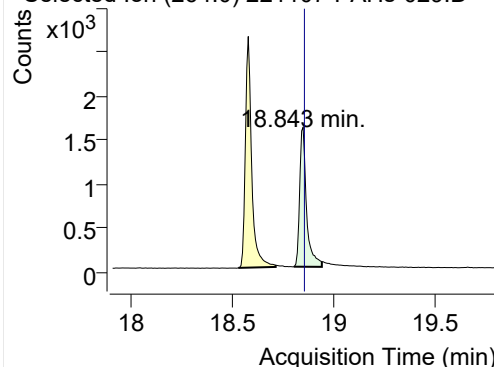


+ SIM (18.580-18.729 min, 21 scans) (**) 2211

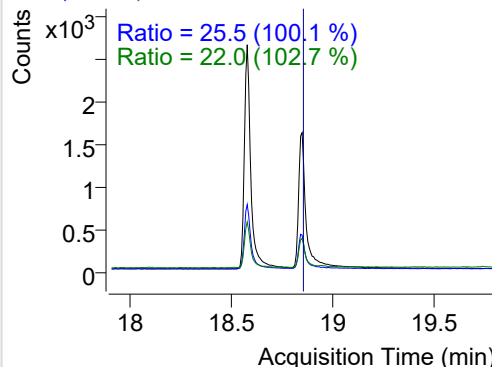


IS-D12-Perylene

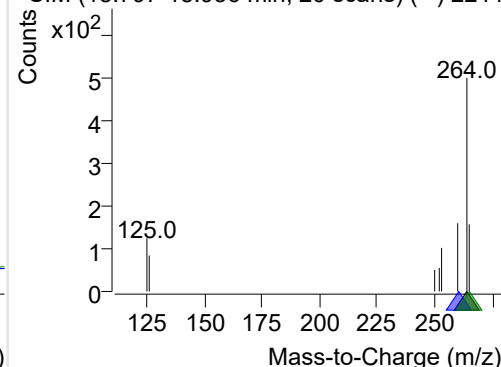
+ Selected Ion (264.0) 221107-PAHs-029.D



264.0, 260.0, 265.0

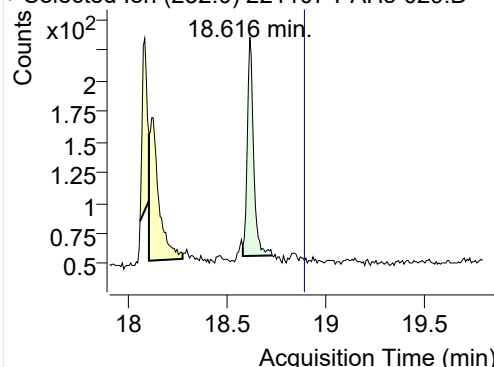
Ratio = 25.5 (100.1 %)
Ratio = 22.0 (102.7 %)

+ SIM (18.797-18.936 min, 20 scans) (**) 2211

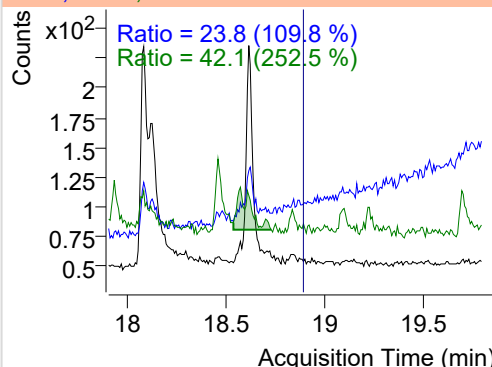


Perylene

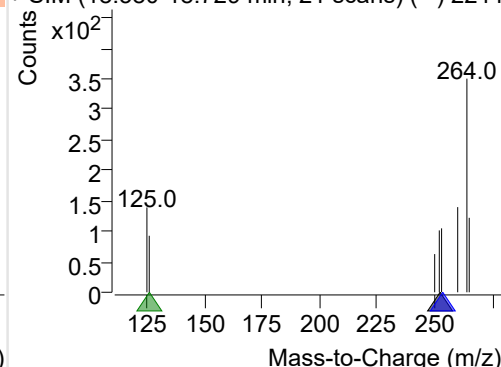
+ Selected Ion (252.0) 221107-PAHs-029.D



252.0, 253.0, 126.0

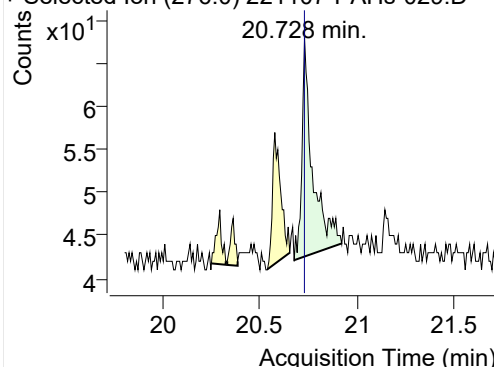
Ratio = 23.8 (109.8 %)
Ratio = 42.1 (252.5 %)

+ SIM (18.580-18.729 min, 21 scans) (**) 2211



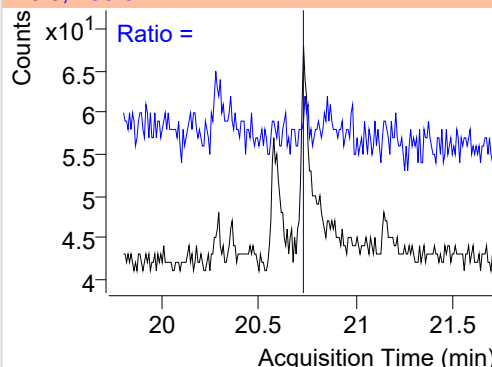
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 221107-PAHs-029.D

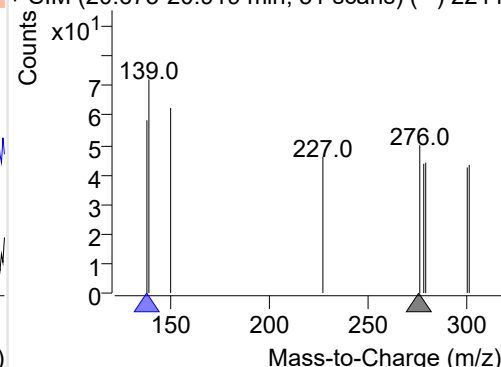


276.0, 138.0

Ratio =

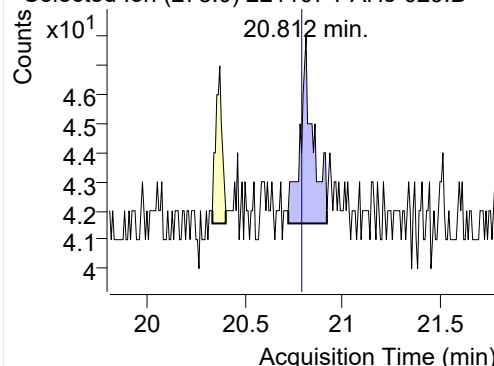


+ SIM (20.675-20.919 min, 31 scans) (**) 2211

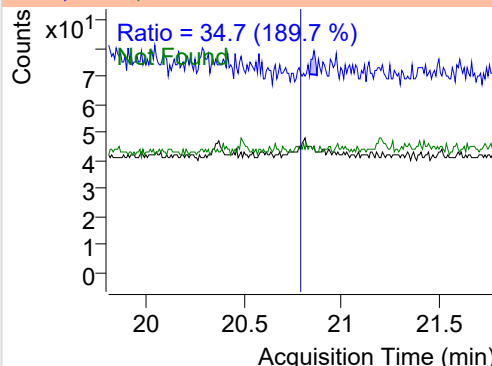


Dibenz(a,h)anthracene

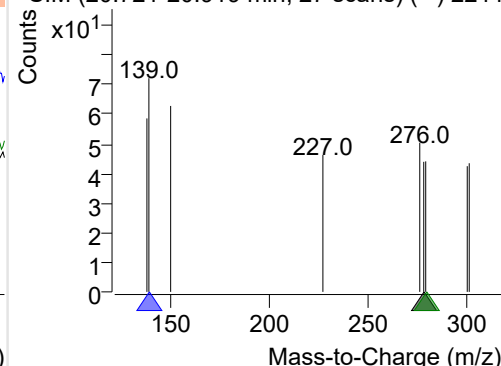
+ Selected Ion (278.0) 221107-PAHs-029.D



278.0, 139.0, 279.0

Ratio = 34.7 (189.7 %)
Not Found

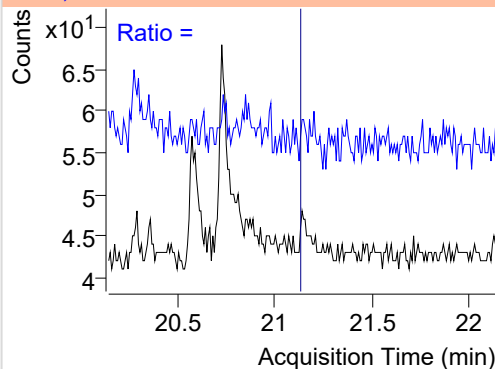
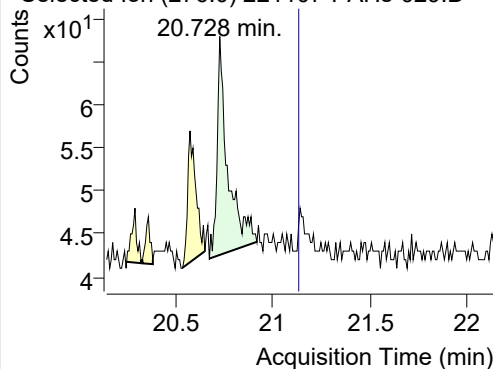
+ SIM (20.721-20.919 min, 27 scans) (**) 2211



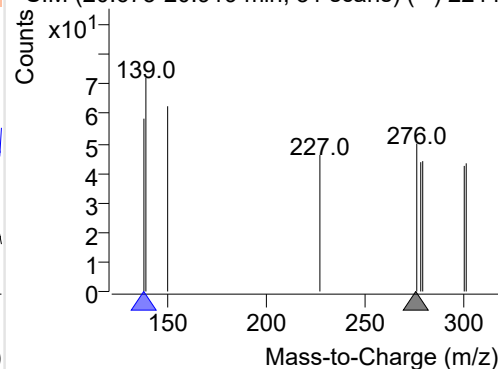
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-029.D

276.0, 138.0

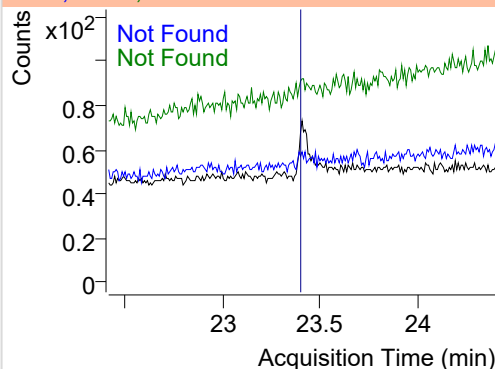
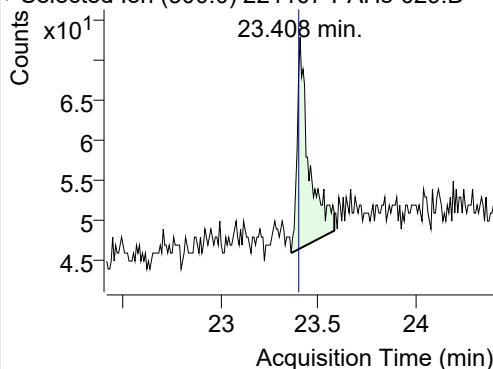


+ SIM (20.675-20.919 min, 31 scans) (**) 2211

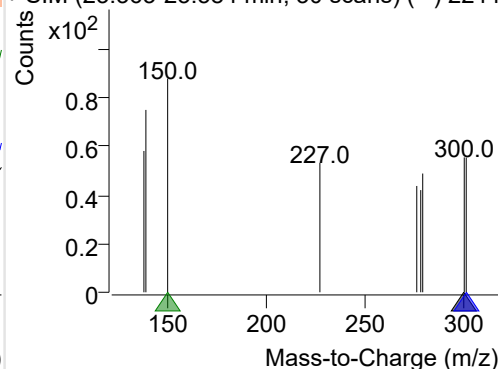
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-029.D

300.0, 301.0, 150.0



+ SIM (23.363-23.584 min, 30 scans) (**) 2211



Quantitative Analysis Sample Based Report

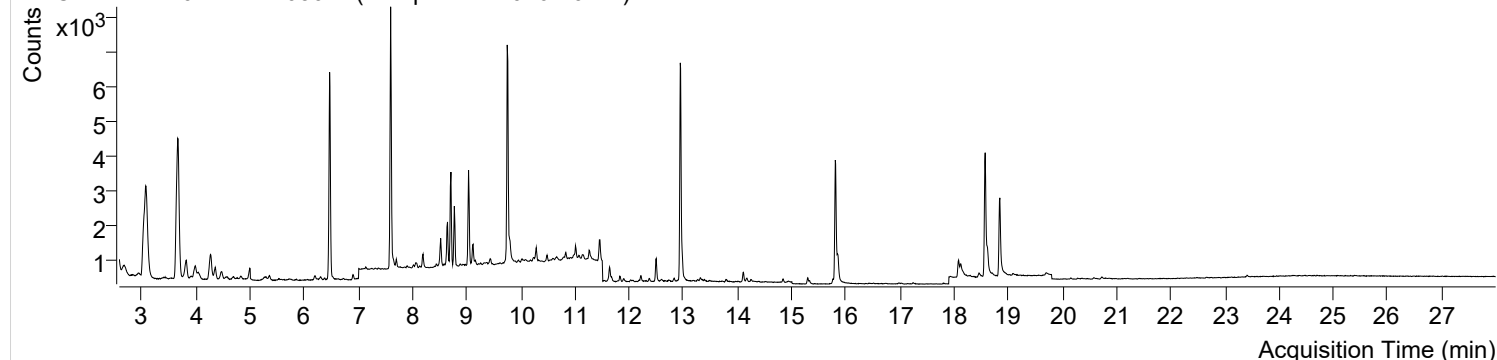


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 7:02:39	Data File	221107-PAHs-030.D
Type	Sample	Name	Sample-PM-1026-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

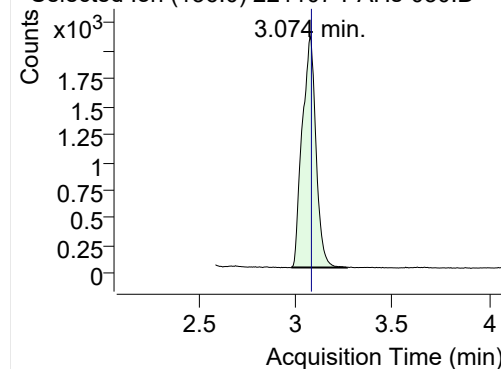
+ TIC SIM 221107-PAHs-030.D (Sample-PM-1026-10DIL)



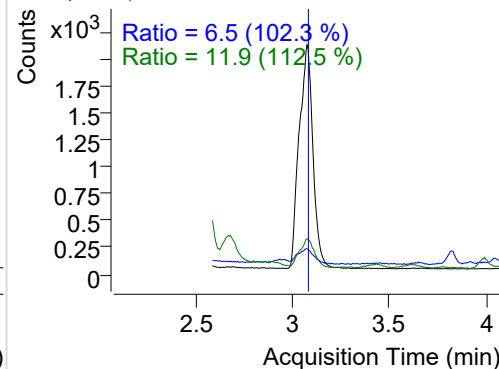
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	10212	2074.78	ND ng/ml	11.9
Naphthalene	3.101	128.0	1180	241.67	ND ng/ml	11.6
Acenaphthylene	6.191	152.0	94	31.01	ND ng/ml	135.6
IS-D10-Acenaphthene	6.469	164.0	5163	2816.40	ND ng/ml	100.5
Acenaphthene	6.528	154.0	32	16.72	ND ng/ml	128.4
LSS-D10-Fluorene	7.596	176.0	5754	3380.89	ND ng/ml	95.0
Fluorene	7.648	166.0	71	29.00	ND ng/ml	78.6
IS-D10-Phenanthrene	9.748	188.0	9199	4851.65	ND ng/ml	15.3
Phenanthrene	9.801	178.0	554	293.32	ND ng/ml	17.7
Anthracene	9.801	178.0	554	293.32	ND ng/ml	17.7
Fluoranthene	12.499	202.0	874	497.32	ND ng/ml	19.9
LSS-D10-Pyrene	12.944	212.0	8178	4644.83	ND ng/ml	18.1
Pyrene	12.976	202.0	745	418.29	ND ng/ml	29.9
Benz(a)anthracene	15.762	228.0	191	92.00	ND ng/ml	24.3
IS-D12-Chrysene	15.806	240.0	5490	2663.92	ND ng/ml	18.7
Chrysene	15.854	228.0	821	385.25	ND ng/ml	34.7
Benzo(b)fluoranthene	18.082	252.0	280	191.65	ND ng/ml	97.1
Benzo(k)fluoranthene	18.124	252.0	747	227.15	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	5398	2377.29	ND ng/ml	26.5
Benzo(e)pyrene	18.616	252.0	638	273.31	ND ng/ml	19.3
Benzo(a)pyrene	18.616	252.0	638	273.31	ND ng/ml	19.3
IS-D12-Perylene	18.843	264.0	3630	1552.53	ND ng/ml	24.5
Perylene	18.616	252.0	638	273.31	ND ng/ml	19.3
Indeno(1,2,3-c,d)pyrene	20.728	276.0	163	49.11	ND ng/ml	12.3
Dibenz(a,h)anthracene	20.805	278.0	45	9.46	ND ng/ml	
Benzo(g,h,i)perylene	21.148	276.0	23	8.66	ND ng/ml	46.1
Coronene	23.408	300.0	81	28.69	ND ng/ml	

IS-D8-Naphthalene

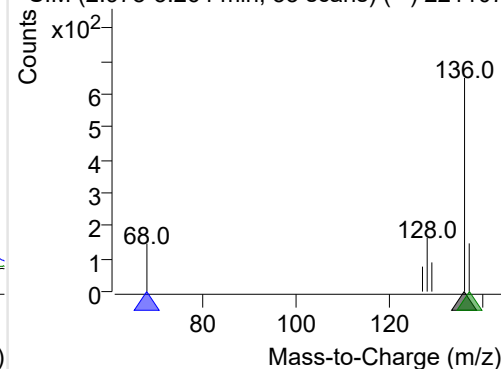
+ Selected Ion (136.0) 221107-PAHs-030.D



136.0, 68.0, 137.0

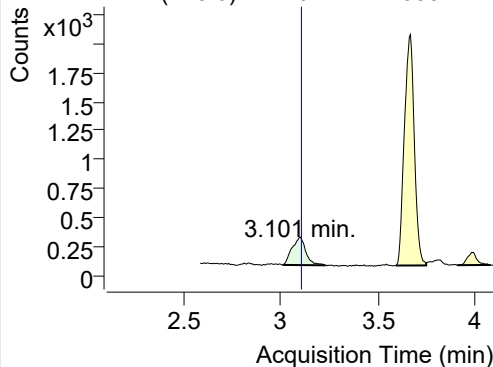


+ SIM (2.978-3.264 min, 53 scans) (**) 221107

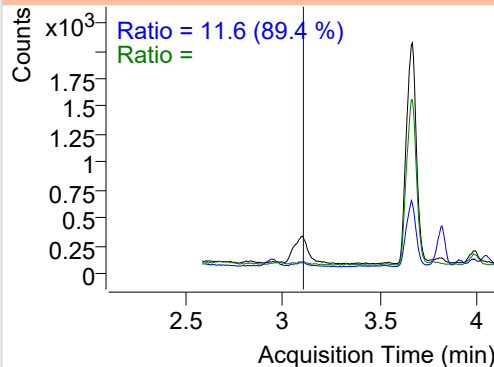


Naphthalene

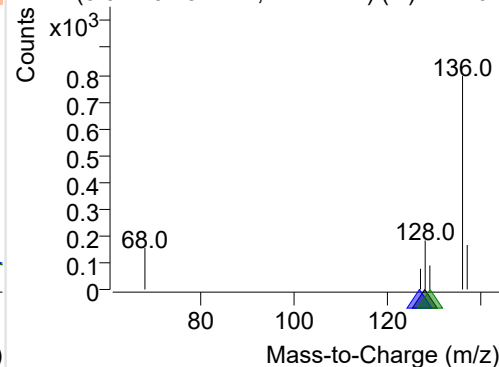
+ Selected Ion (128.0) 221107-PAHs-030.D



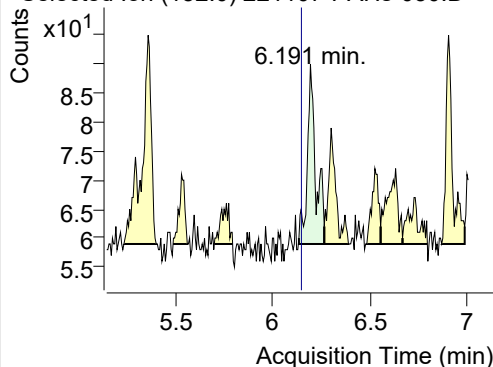
128.0, 127.0, 129.0



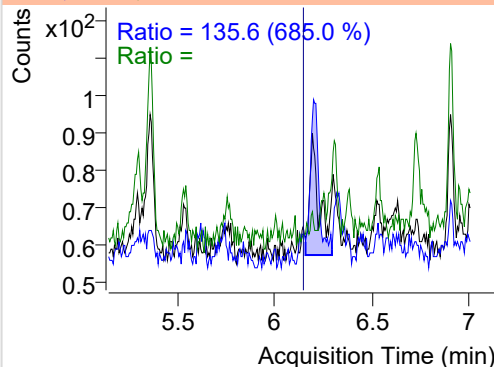
+ SIM (3.011-3.231 min, 41 scans) (**) 221107

**Acenaphthylene**

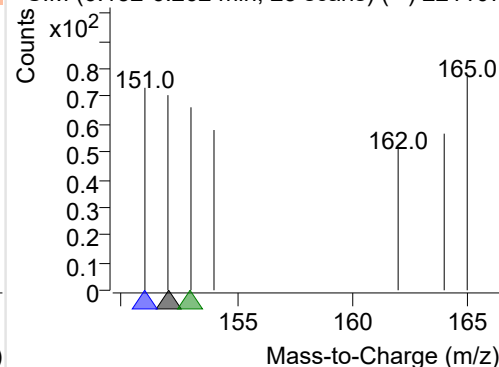
+ Selected Ion (152.0) 221107-PAHs-030.D



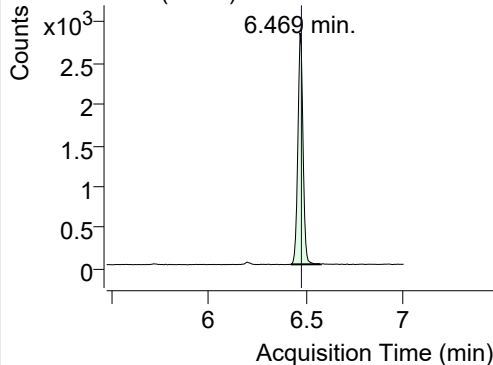
152.0, 151.0, 153.0



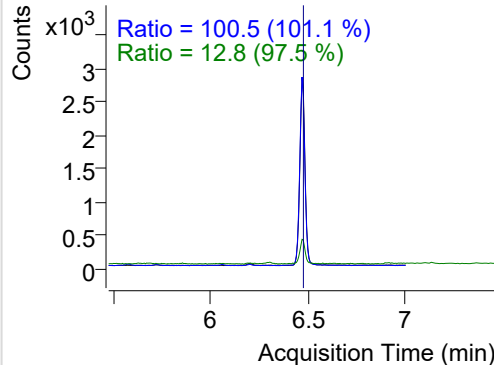
+ SIM (6.132-6.262 min, 23 scans) (**) 221107

**IS-D10-Acenaphthene**

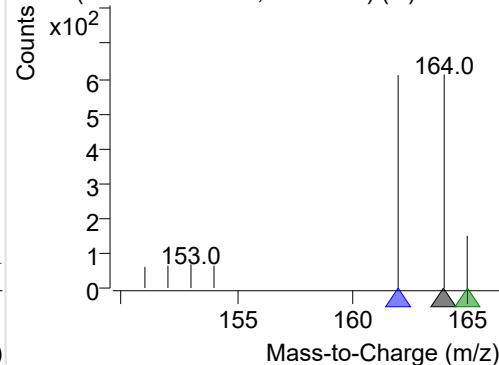
+ Selected Ion (164.0) 221107-PAHs-030.D



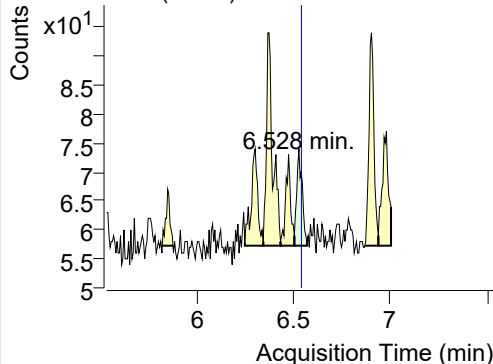
164.0, 162.0, 165.0



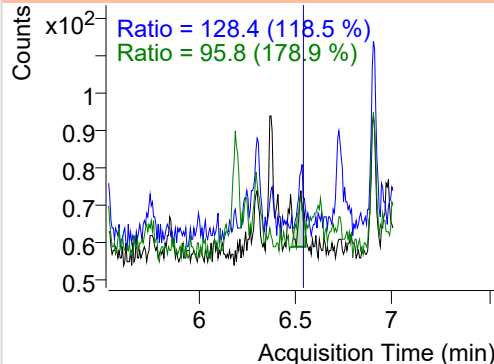
+ SIM (6.422-6.575 min, 26 scans) (**) 221107

**Acenaphthene**

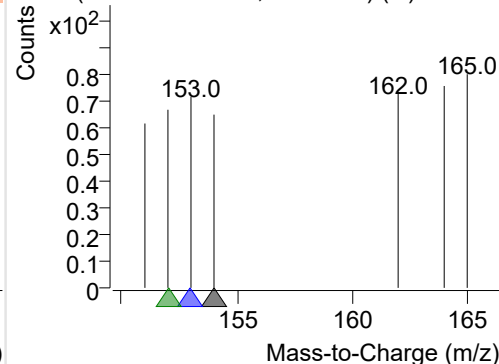
+ Selected Ion (154.0) 221107-PAHs-030.D



154.0, 153.0, 152.0

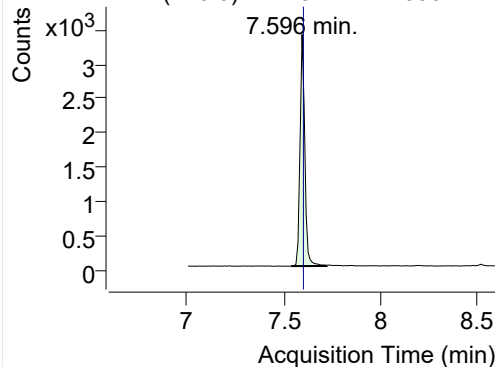


+ SIM (6.504-6.570 min, 12 scans) (**) 221107

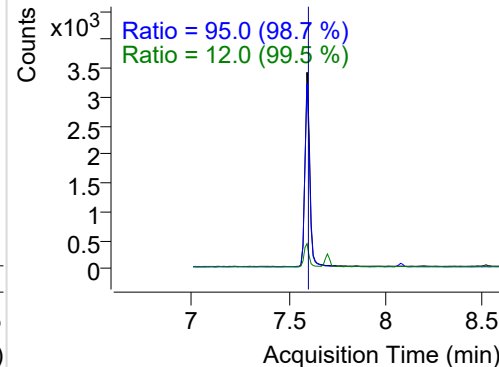


LSS-D10-Fluorene

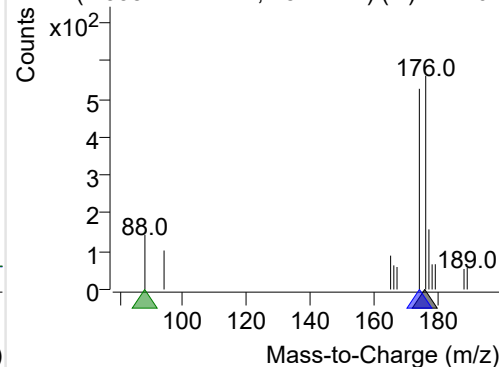
+ Selected Ion (176.0) 221107-PAHs-030.D



176.0, 174.0, 88.0

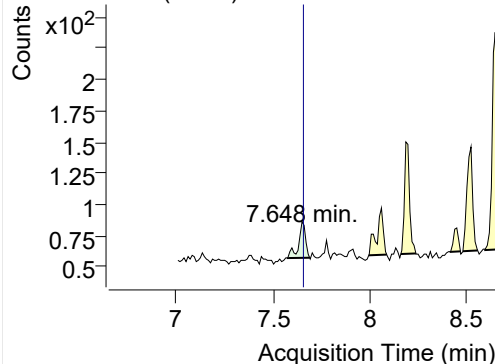


+ SIM (7.538-7.722 min, 18 scans) (**) 221107

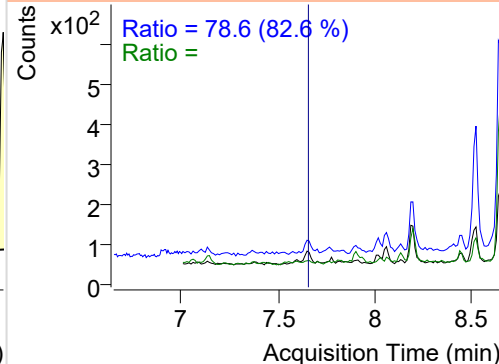


Fluorene

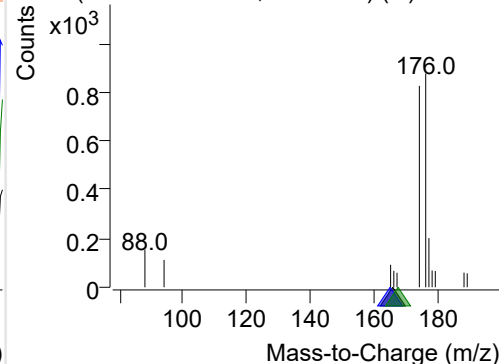
+ Selected Ion (166.0) 221107-PAHs-030.D



166.0, 165.0, 167.0

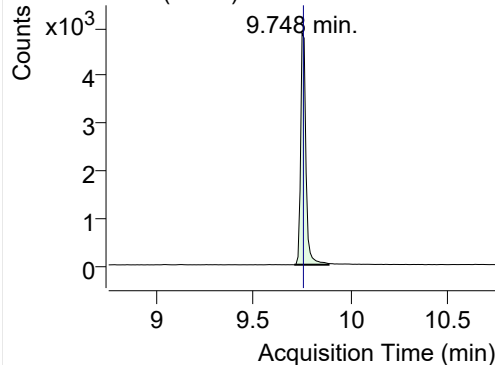


+ SIM (7.575-7.687 min, 11 scans) (**) 221107

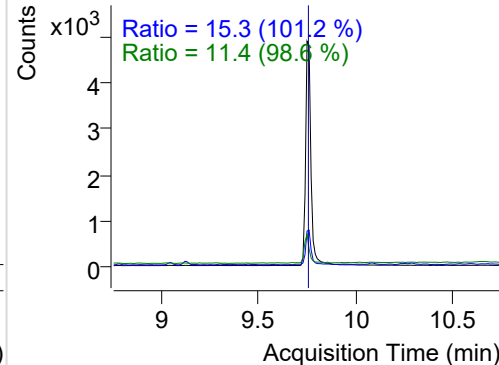


IS-D10-Phenanthrene

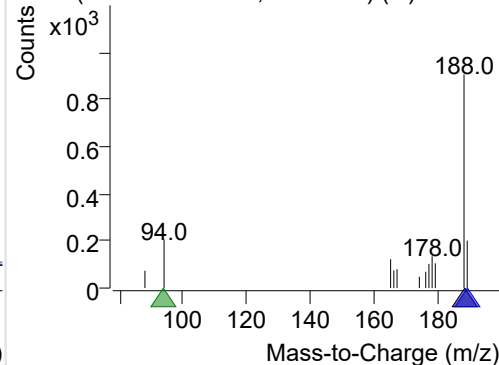
+ Selected Ion (188.0) 221107-PAHs-030.D



188.0, 189.0, 94.0

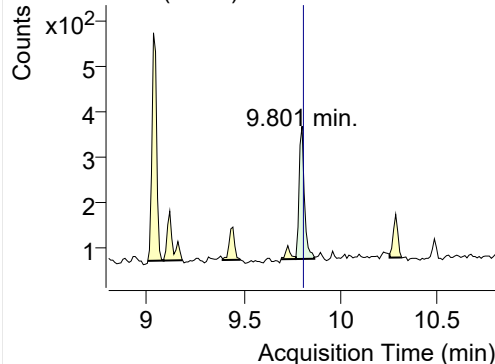


+ SIM (9.708-9.885 min, 17 scans) (**) 221107

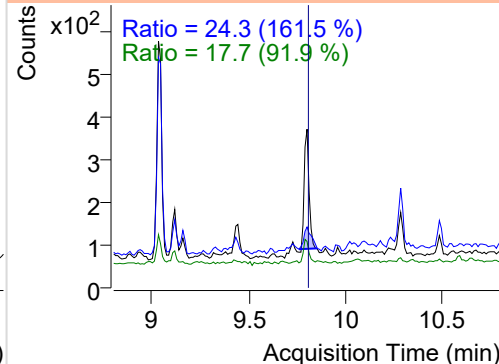


Phenanthrene

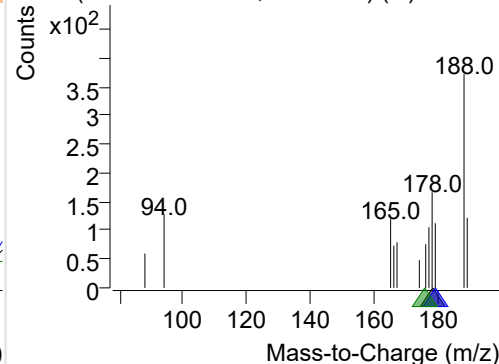
+ Selected Ion (178.0) 221107-PAHs-030.D



178.0, 179.0, 176.0

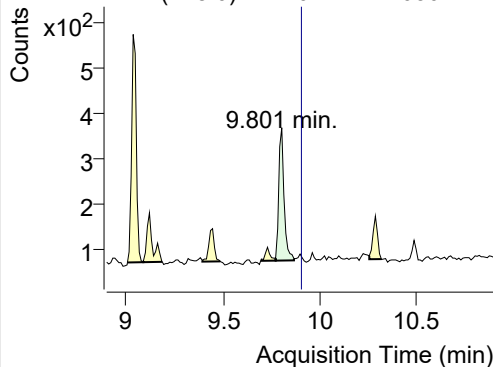


+ SIM (9.769-9.864 min, 10 scans) (**) 221107

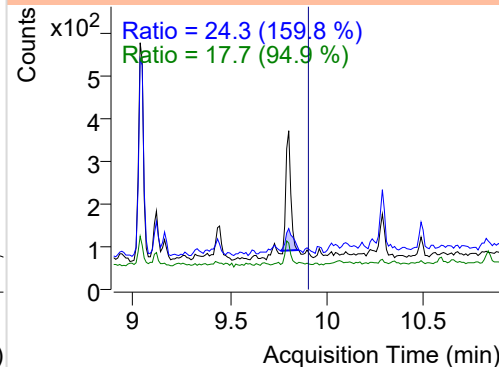


Anthracene

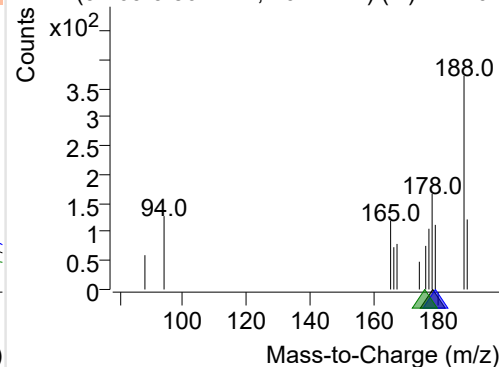
+ Selected Ion (178.0) 221107-PAHs-030.D



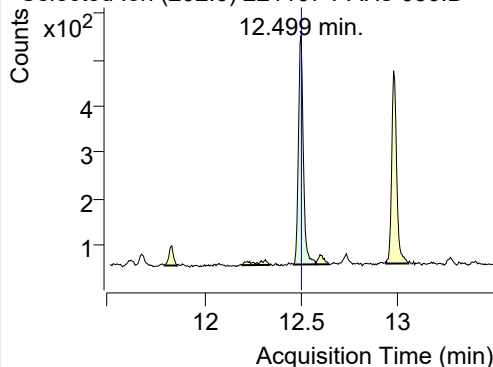
178.0, 179.0, 176.0



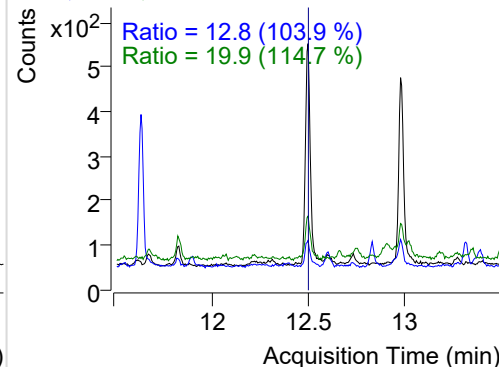
+ SIM (9.769-9.864 min, 10 scans) (**) 221107

**Fluoranthene**

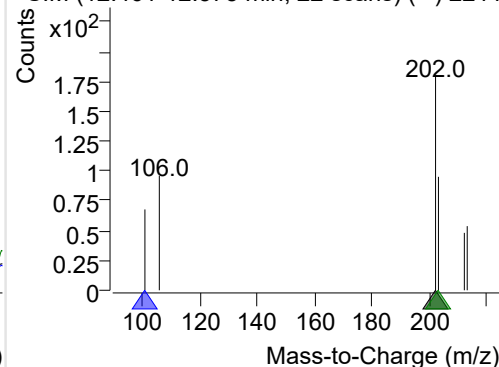
+ Selected Ion (202.0) 221107-PAHs-030.D



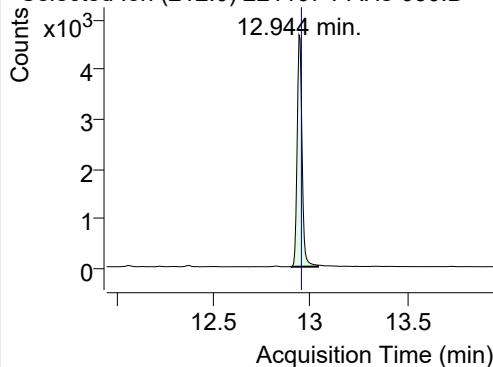
202.0, 101.0, 203.0



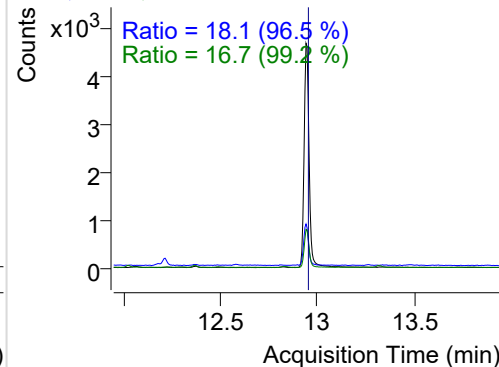
+ SIM (12.461-12.575 min, 22 scans) (**) 2211

**LSS-D10-Pyrene**

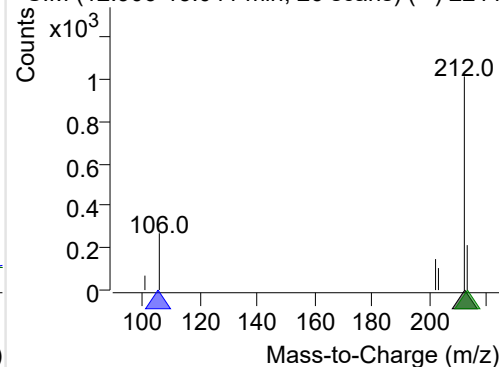
+ Selected Ion (212.0) 221107-PAHs-030.D



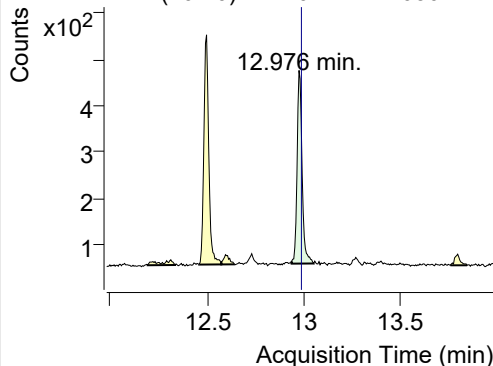
212.0, 106.0, 213.0



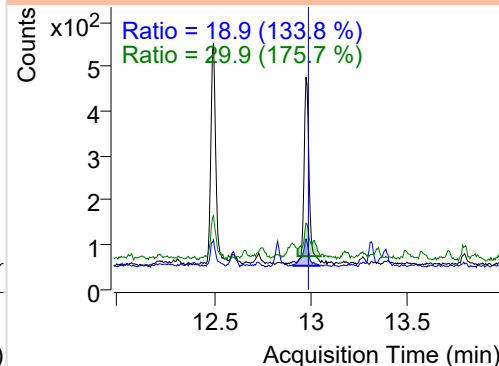
+ SIM (12.906-13.041 min, 26 scans) (**) 2211

**Pyrene**

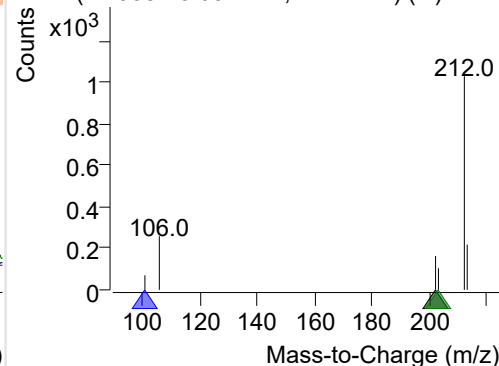
+ Selected Ion (202.0) 221107-PAHs-030.D



202.0, 101.0, 203.0



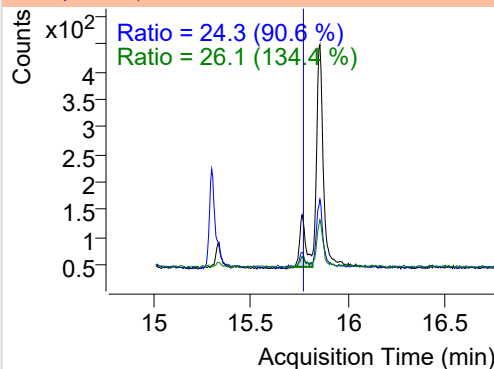
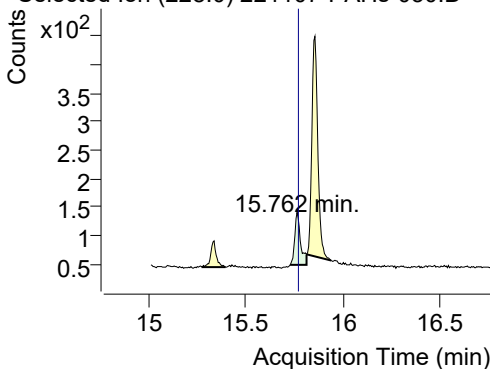
+ SIM (12.938-13.052 min, 22 scans) (**) 2211



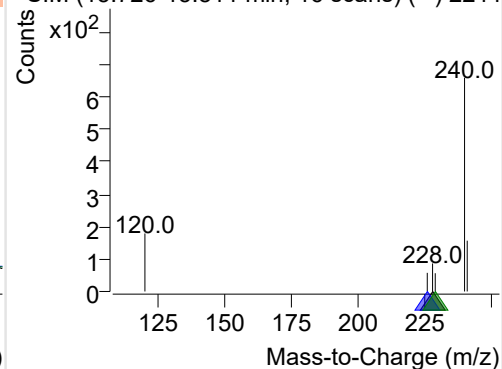
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-030.D

228.0, 226.0, 229.0

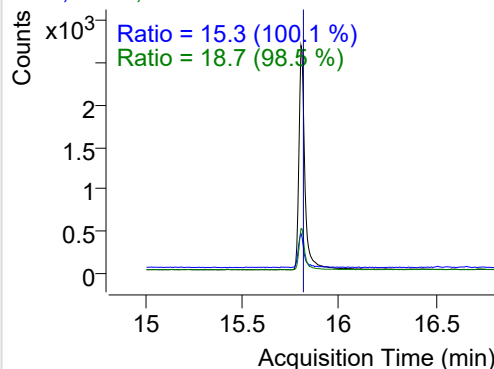
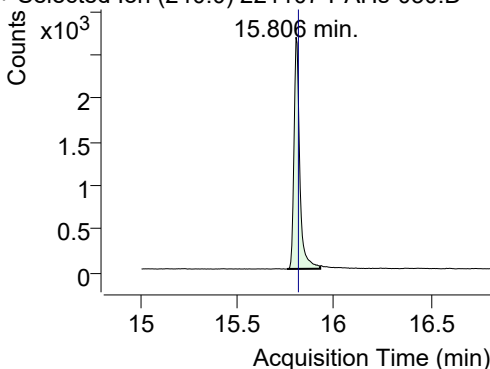


+ SIM (15.726-15.811 min, 16 scans) (**) 2211

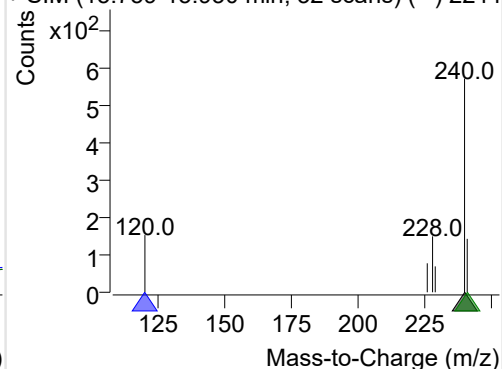
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-030.D

240.0, 120.0, 241.0

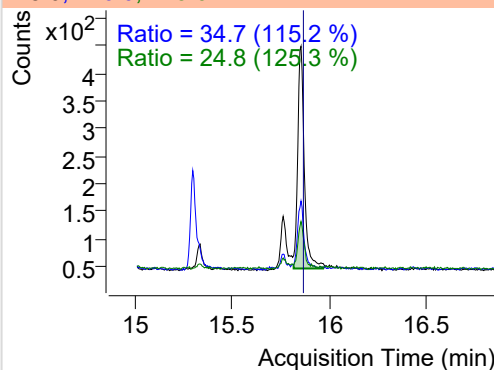
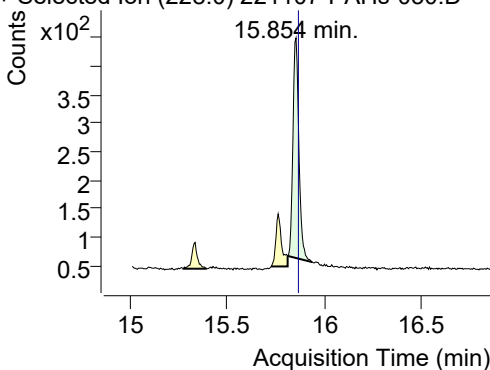


+ SIM (15.759-15.930 min, 32 scans) (**) 2211

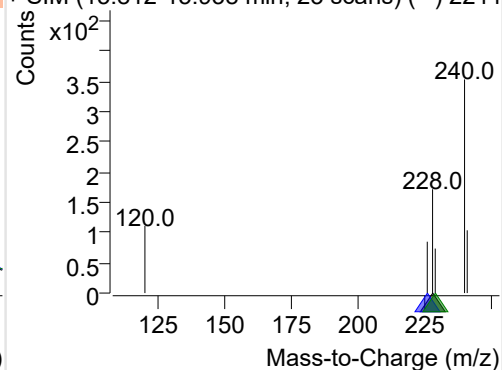
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-030.D

228.0, 226.0, 229.0

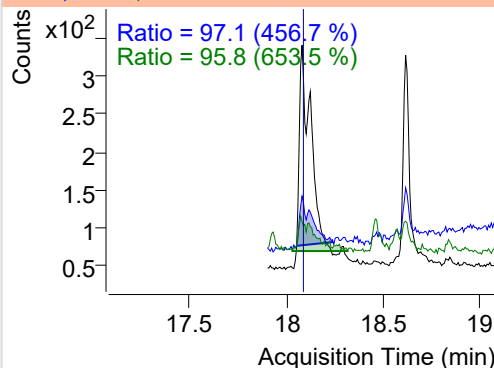
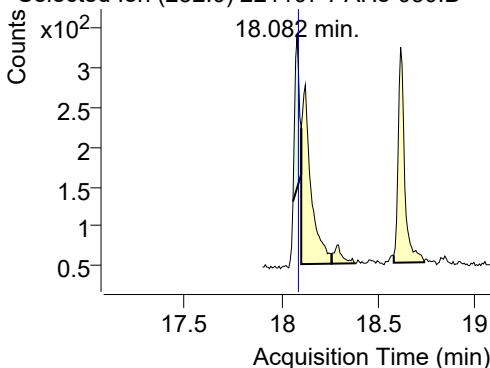


+ SIM (15.812-15.938 min, 23 scans) (**) 2211

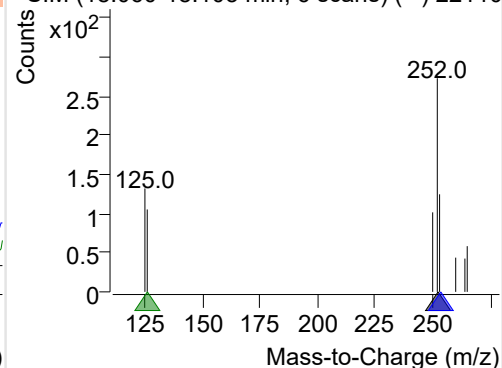
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-030.D

252.0, 253.0, 126.0



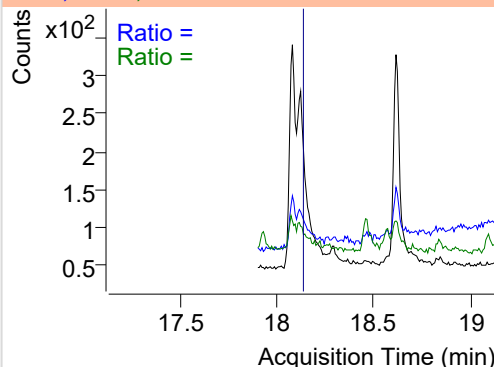
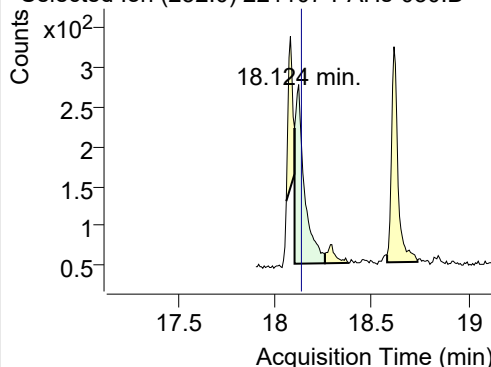
+ SIM (18.060-18.103 min, 6 scans) (**) 22110



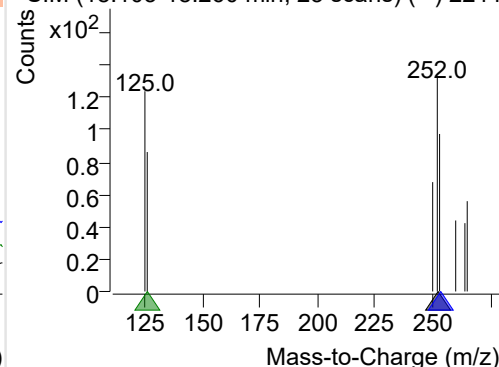
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-030.D

252.0, 253.0, 126.0

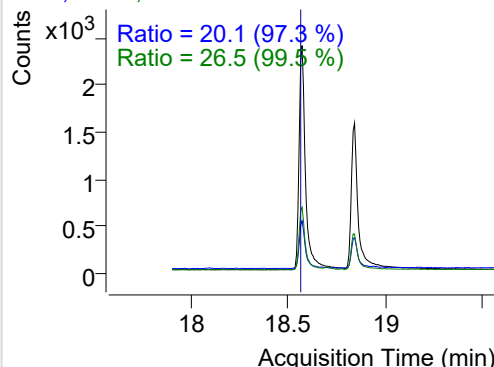
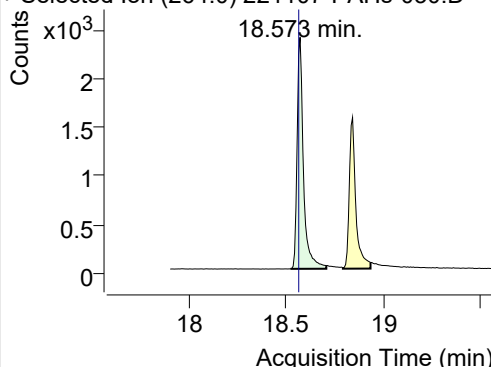


+ SIM (18.103-18.260 min, 23 scans) (**) 2211

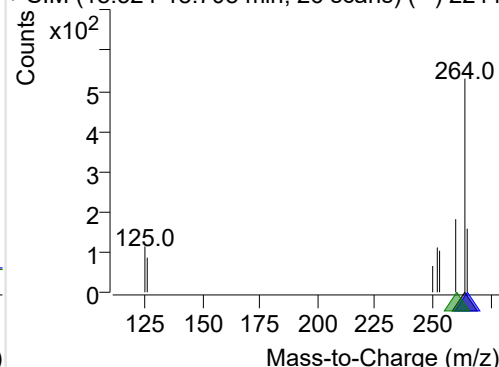
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-030.D

264.0, 265.0, 260.0

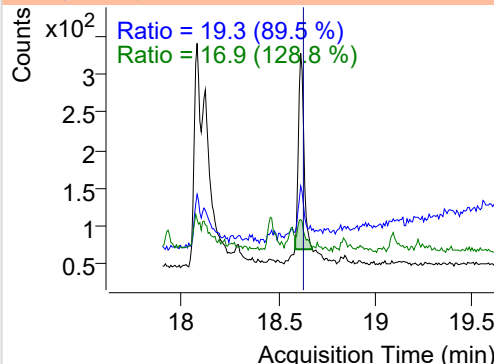
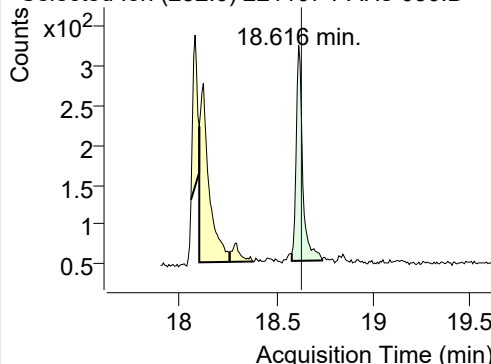


+ SIM (18.524-18.708 min, 26 scans) (**) 2211

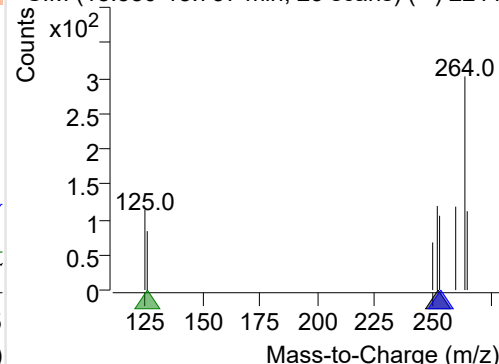
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-030.D

252.0, 253.0, 126.0

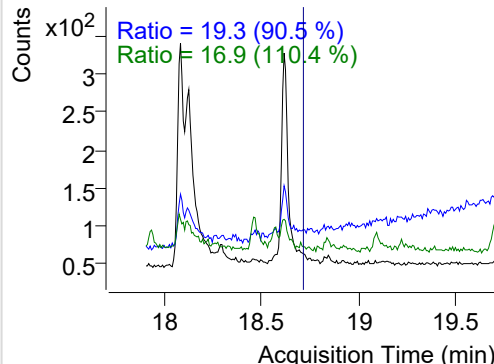
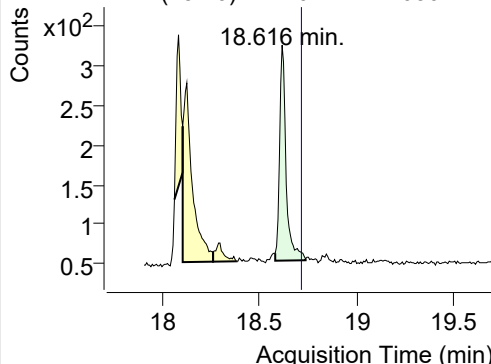


+ SIM (18.580-18.737 min, 23 scans) (**) 2211

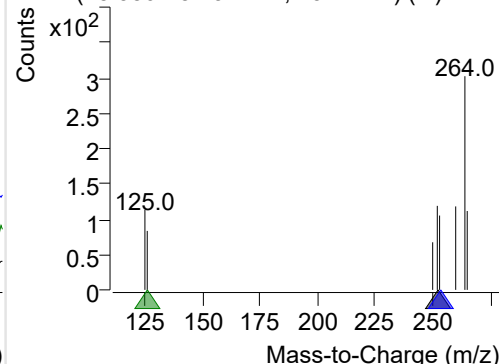
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-030.D

252.0, 253.0, 126.0

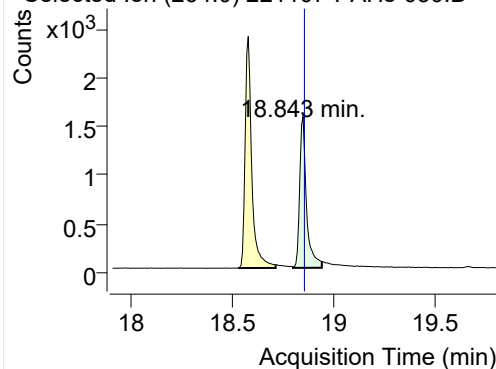


+ SIM (18.580-18.737 min, 23 scans) (**) 2211

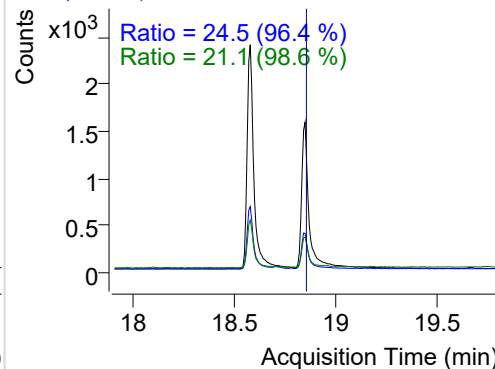


IS-D12-Perylene

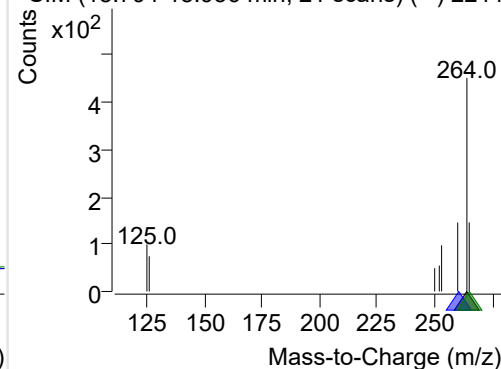
+ Selected Ion (264.0) 221107-PAHs-030.D



264.0, 260.0, 265.0

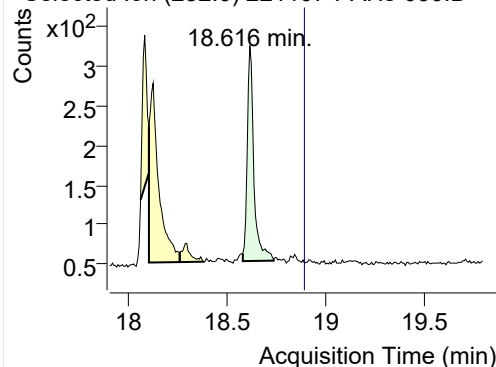


+ SIM (18.794-18.936 min, 21 scans) (**) 2211

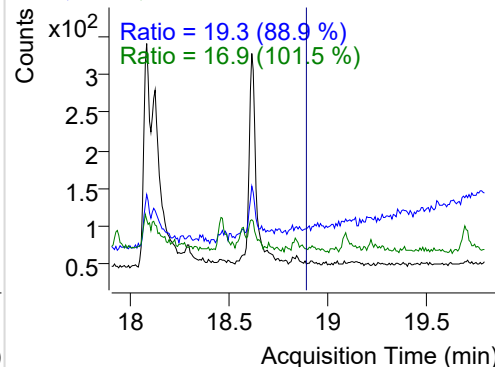


Perylene

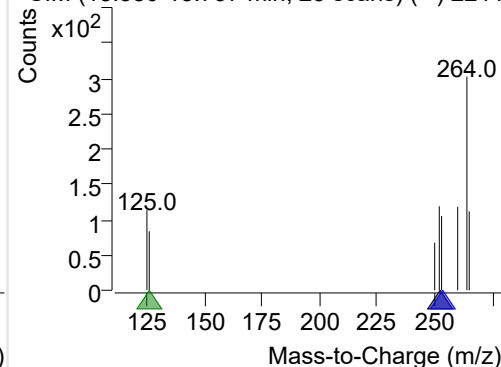
+ Selected Ion (252.0) 221107-PAHs-030.D



252.0, 253.0, 126.0

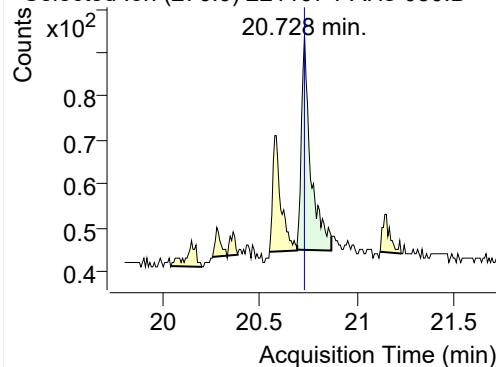


+ SIM (18.580-18.737 min, 23 scans) (**) 2211

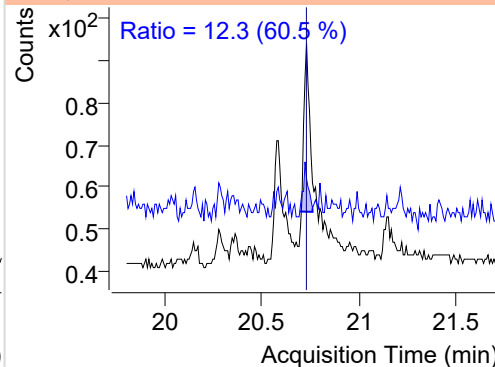


Indeno(1,2,3-c,d)pyrene

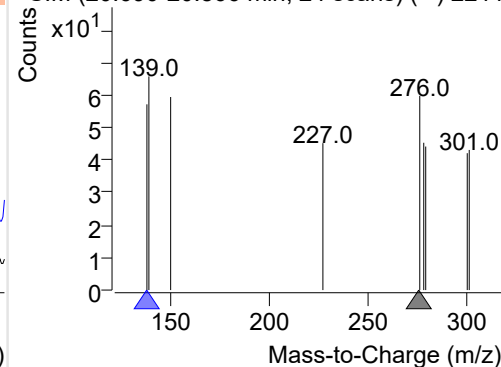
+ Selected Ion (276.0) 221107-PAHs-030.D



276.0, 138.0

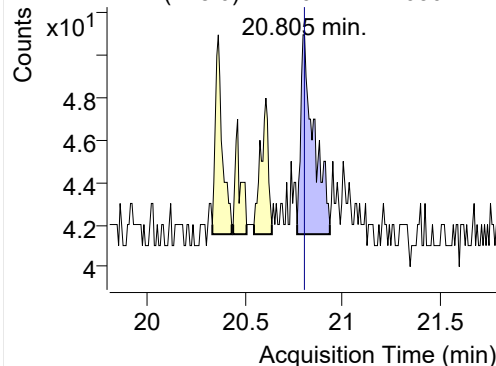


+ SIM (20.690-20.866 min, 24 scans) (**) 2211

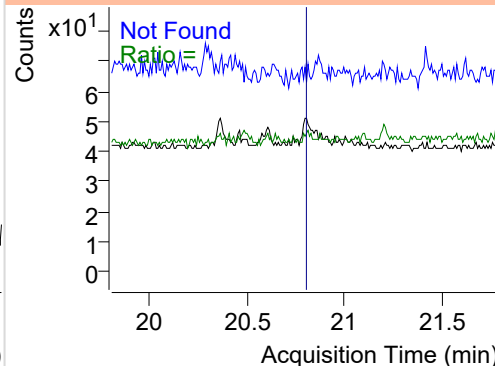


Dibenz(a,h)anthracene

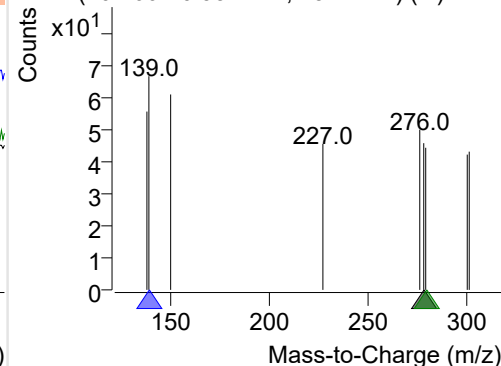
+ Selected Ion (278.0) 221107-PAHs-030.D



278.0, 139.0, 279.0

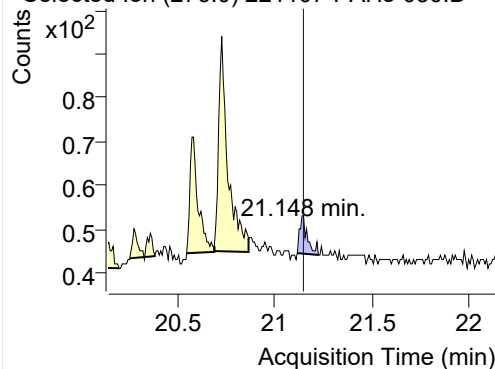


+ SIM (20.766-20.934 min, 23 scans) (**) 2211

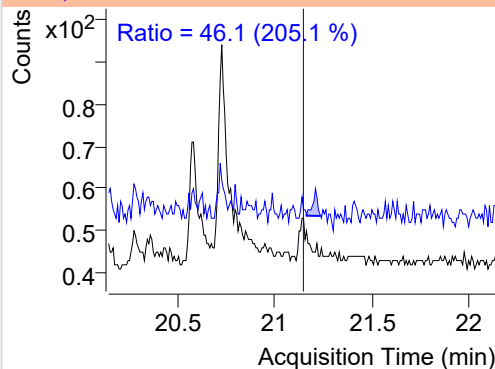


Benzo(g,h,i)perylene

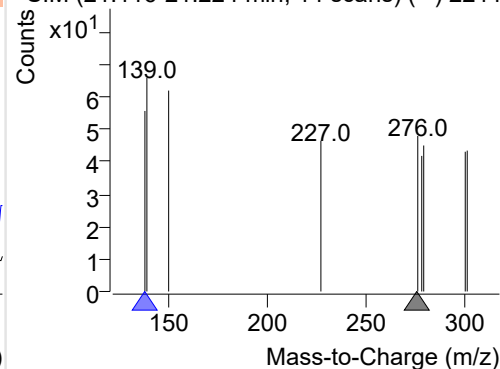
+ Selected Ion (276.0) 221107-PAHs-030.D



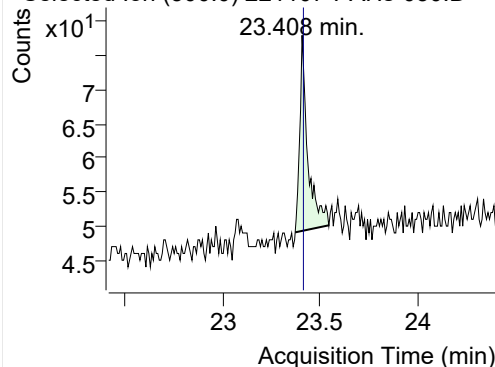
276.0, 138.0



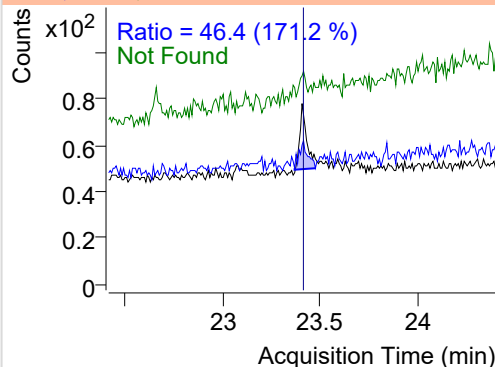
+ SIM (21.116-21.224 min, 14 scans) (**) 2211

**Coronene**

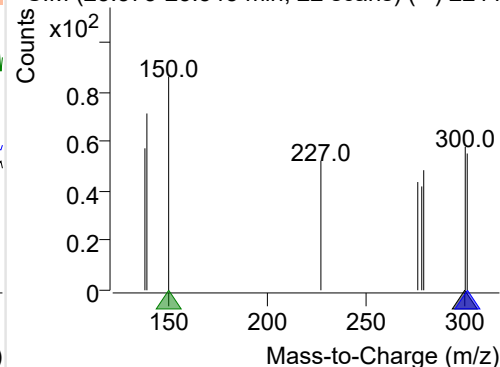
+ Selected Ion (300.0) 221107-PAHs-030.D



300.0, 301.0, 150.0



+ SIM (23.373-23.545 min, 22 scans) (**) 2211



Quantitative Analysis Sample Based Report

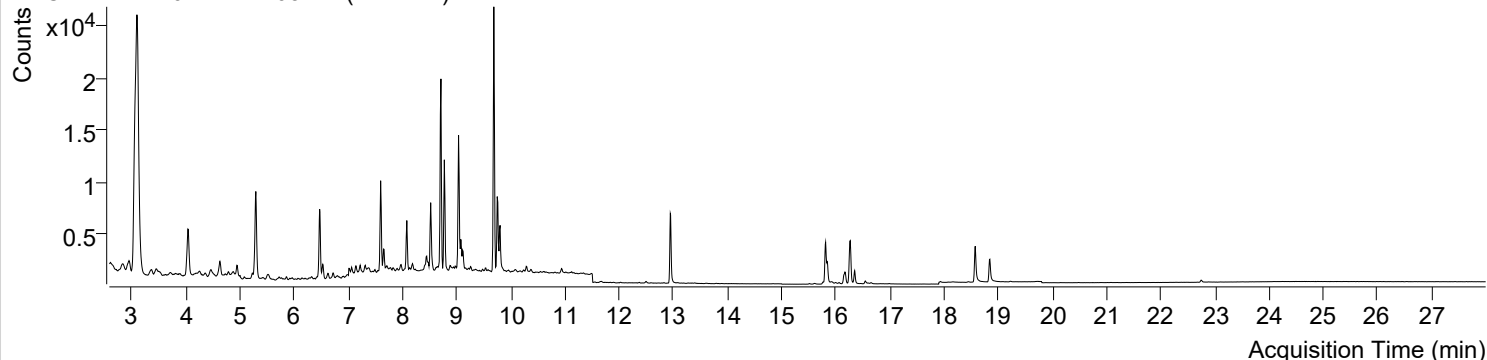


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 7:33:38	Data File	221107-PAHs-031.D
Type	Sample	Name	Acetone
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

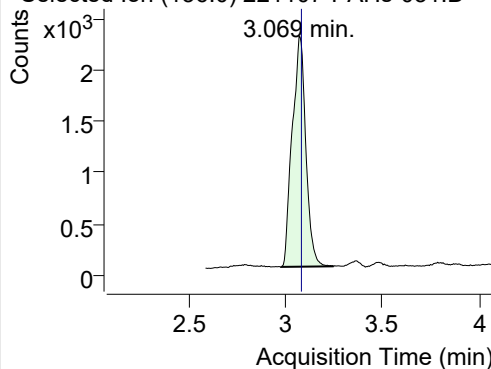
+ TIC SIM 221107-PAHs-031.D (Acetone)



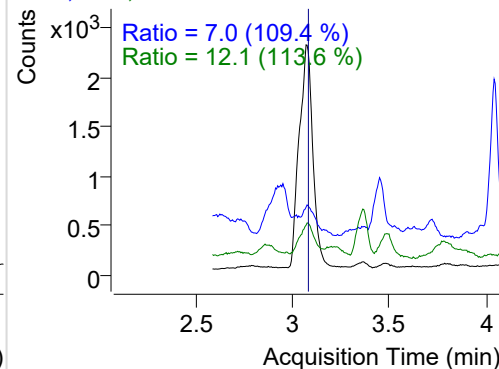
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	10984	2255.21	ND ng/ml	12.1
Naphthalene	3.096	128.0	89644	18417.49	ND ng/ml	13.7
Acenaphthylene	6.522	152.0	592	279.38	ND ng/ml	34.0
IS-D10-Acenaphthene	6.469	164.0	6020	3129.94	ND ng/ml	97.7
Acenaphthene	6.534	154.0	703	364.41	ND ng/ml	110.0
LSS-D10-Fluorene	7.596	176.0	6401	3741.94	ND ng/ml	95.8
Fluorene	7.648	166.0	1946	943.64	ND ng/ml	103.4
IS-D10-Phenanthrene	9.748	188.0	10389	5512.15	ND ng/ml	15.8
Phenanthrene	9.801	178.0	4994	2773.33	ND ng/ml	20.1
Anthracene	9.801	178.0	4994	2773.33	ND ng/ml	20.1
Fluoranthene	12.499	202.0	170	92.99	ND ng/ml	56.1
LSS-D10-Pyrene	12.944	212.0	8473	4869.77	ND ng/ml	18.6
Pyrene	12.976	202.0	163	89.36	ND ng/ml	
Benz(a)anthracene	15.849	228.0	156	41.49	ND ng/ml	23.5
IS-D12-Chrysene	15.811	240.0	6226	2918.94	ND ng/ml	19.6
Chrysene	15.849	228.0	156	41.49	ND ng/ml	23.5
Benzo(b)fluoranthene	18.139	252.0	26	6.36	ND ng/ml	166.0
Benzo(k)fluoranthene	18.139	252.0	26	6.36	ND ng/ml	166.0
SS-D12-Benzo(e)pyrene	18.573	264.0	5040	2308.60	ND ng/ml	26.7
Benzo(e)pyrene	18.566	252.0	24	10.36	ND ng/ml	
Benzo(a)pyrene	18.829	252.0	9	5.36	ND ng/ml	
IS-D12-Perylene	18.843	264.0	3348	1473.42	ND ng/ml	26.2
Perylene	18.829	252.0	9	5.36	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.728	276.0	21	4.61	ND ng/ml	
Dibenz(a,h)anthracene	20.805	278.0	6	3.65	ND ng/ml	221.9
Benzo(g,h,i)perylene	21.141	276.0	9	4.00	ND ng/ml	
Coronene	23.393	300.0	7	3.94	ND ng/ml	

IS-D8-Naphthalene

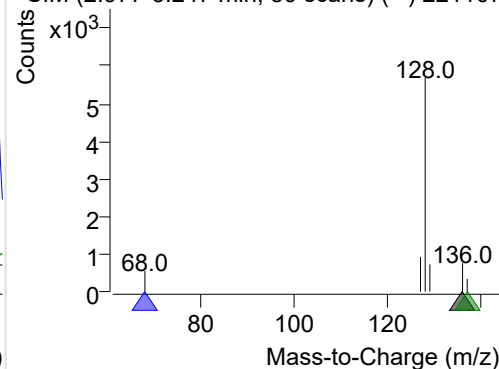
+ Selected Ion (136.0) 221107-PAHs-031.D



136.0, 68.0, 137.0

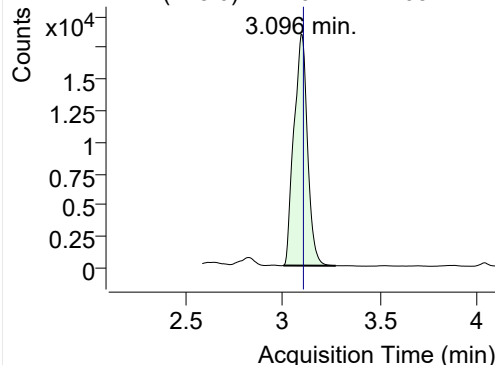


+ SIM (2.977-3.247 min, 50 scans) (**) 221107

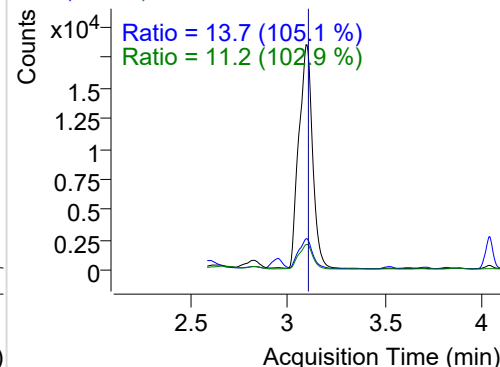


Naphthalene

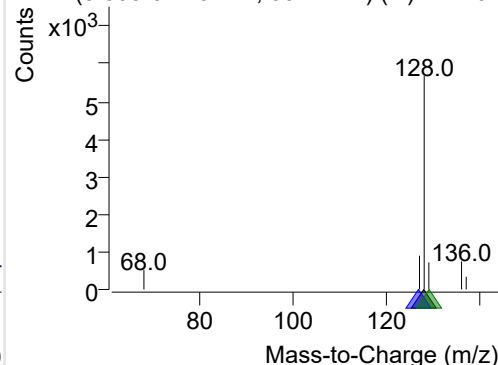
+ Selected Ion (128.0) 221107-PAHs-031.D



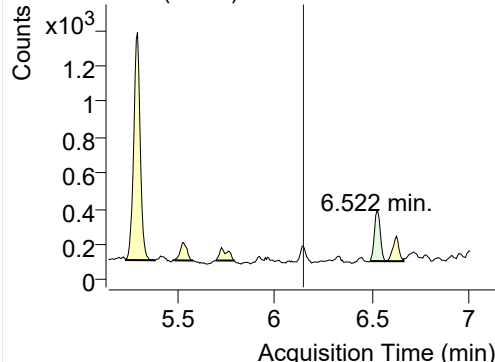
128.0, 127.0, 129.0



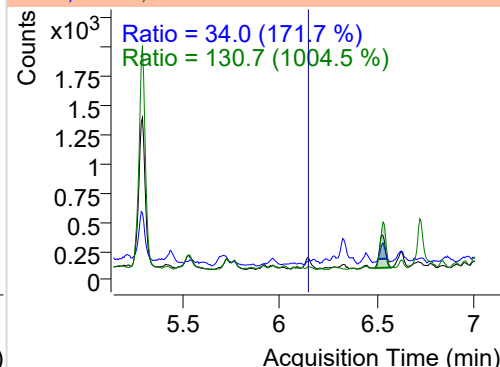
+ SIM (3.005-3.275 min, 50 scans) (**) 221107

**Acenaphthylene**

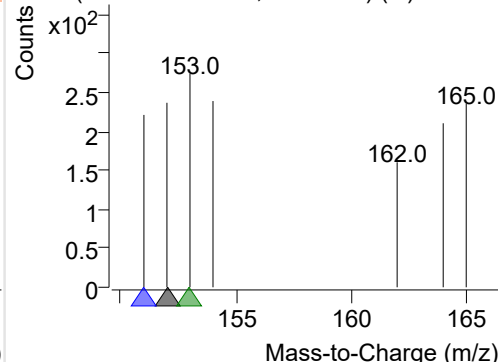
+ Selected Ion (152.0) 221107-PAHs-031.D



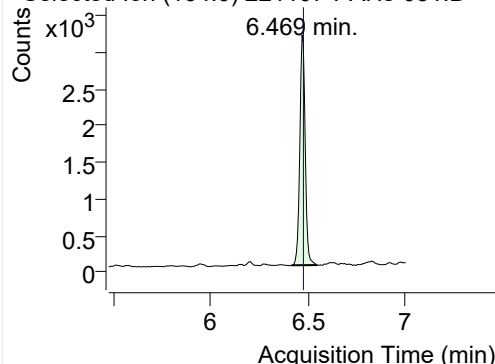
152.0, 151.0, 153.0



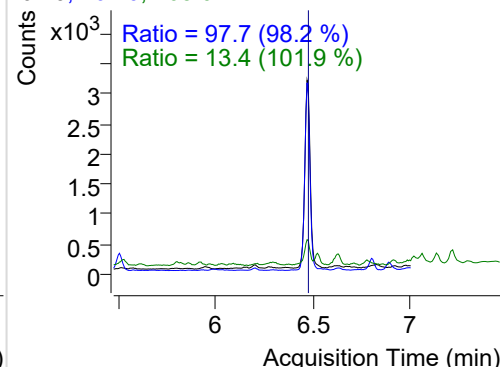
+ SIM (6.488-6.564 min, 13 scans) (**) 221107

**IS-D10-Acenaphthene**

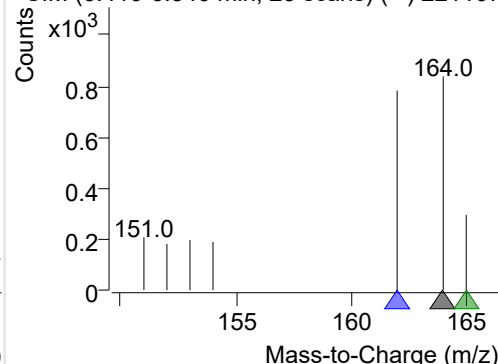
+ Selected Ion (164.0) 221107-PAHs-031.D



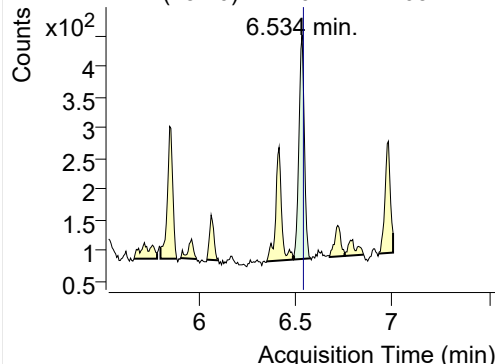
164.0, 162.0, 165.0



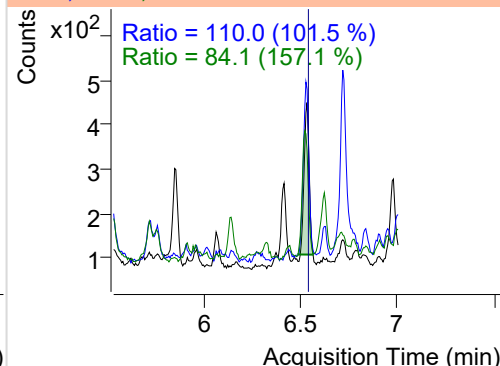
+ SIM (6.416-6.546 min, 23 scans) (**) 221107

**Acenaphthene**

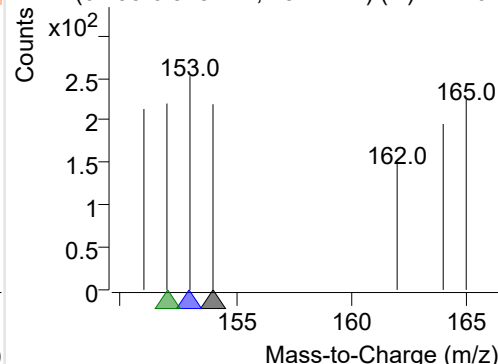
+ Selected Ion (154.0) 221107-PAHs-031.D



154.0, 153.0, 152.0

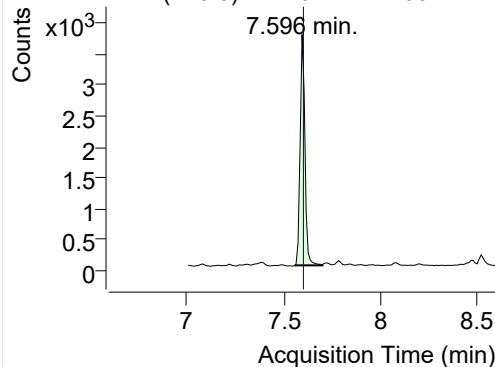


+ SIM (6.493-6.578 min, 15 scans) (**) 221107

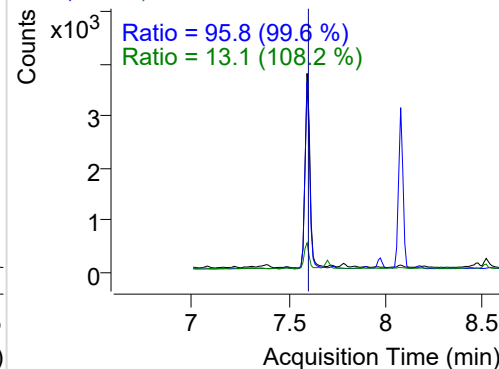


LSS-D10-Fluorene

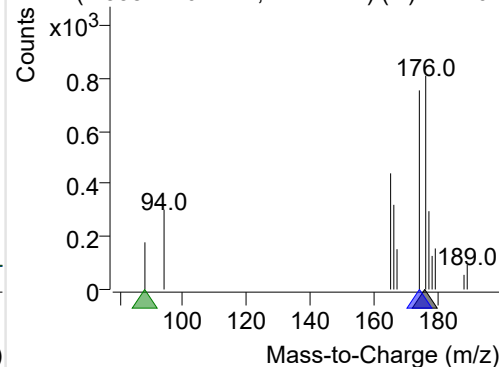
+ Selected Ion (176.0) 221107-PAHs-031.D



176.0, 174.0, 88.0

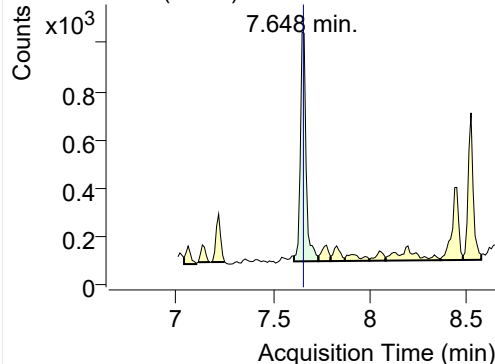


+ SIM (7.558-7.701 min, 14 scans) (**) 221107

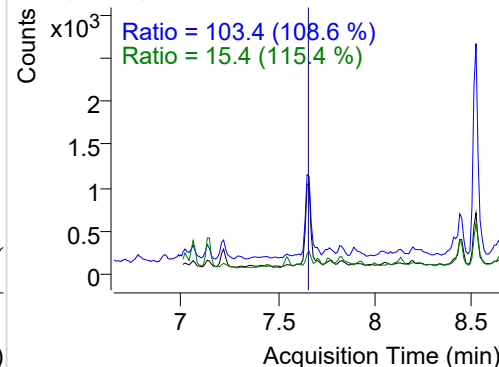


Fluorene

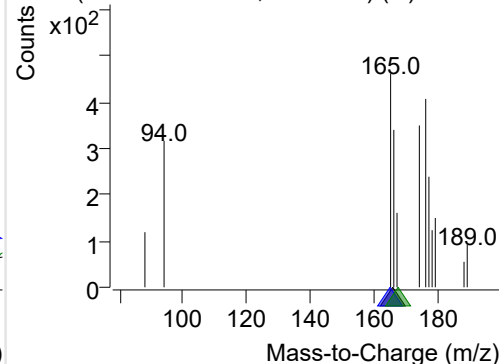
+ Selected Ion (166.0) 221107-PAHs-031.D



166.0, 165.0, 167.0

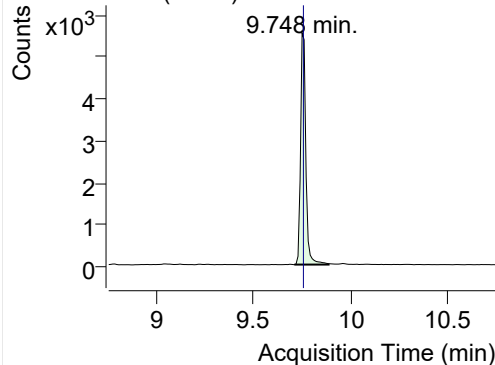


+ SIM (7.606-7.732 min, 13 scans) (**) 221107

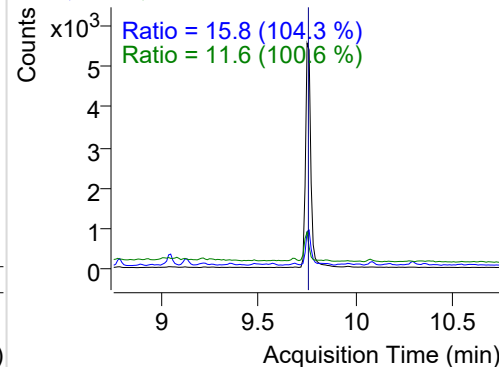


IS-D10-Phenanthrene

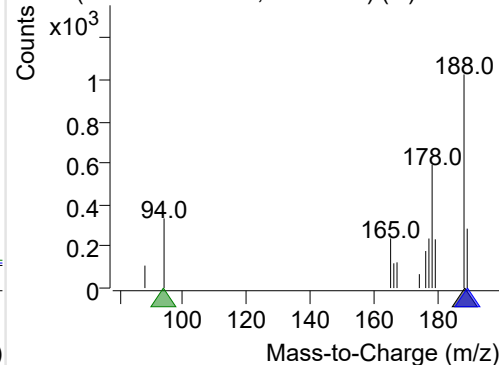
+ Selected Ion (188.0) 221107-PAHs-031.D



188.0, 189.0, 94.0

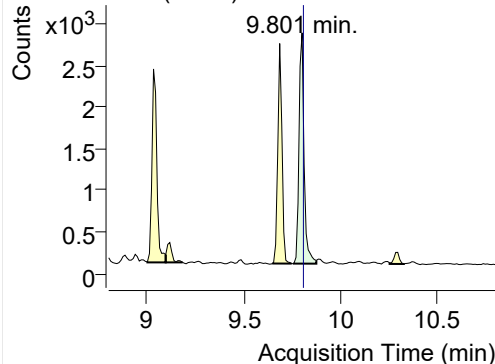


+ SIM (9.708-9.885 min, 17 scans) (**) 221107

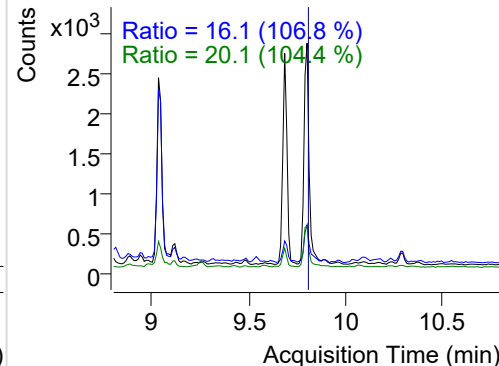


Phenanthrene

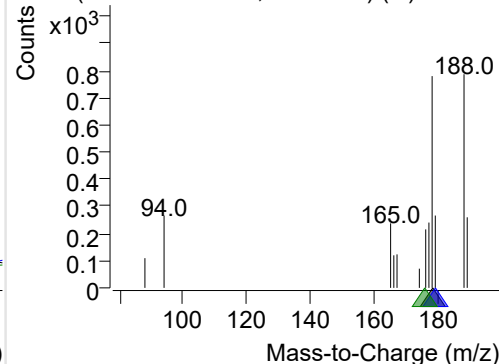
+ Selected Ion (178.0) 221107-PAHs-031.D



178.0, 179.0, 176.0

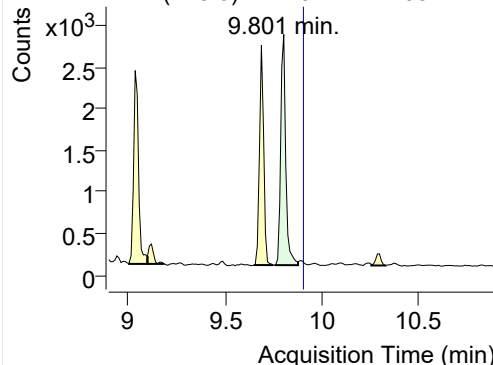


+ SIM (9.754-9.875 min, 12 scans) (**) 221107

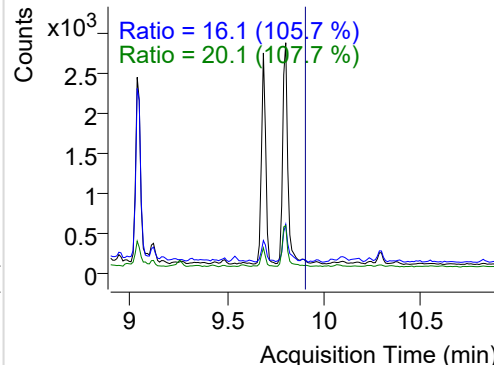


Anthracene

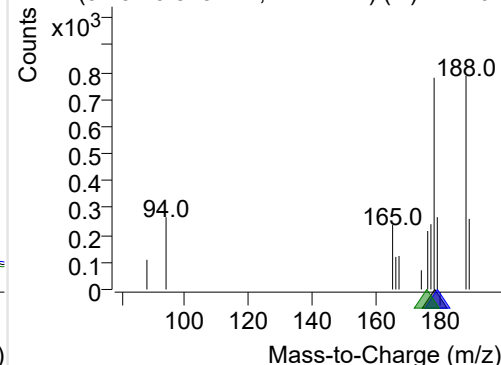
+ Selected Ion (178.0) 221107-PAHs-031.D



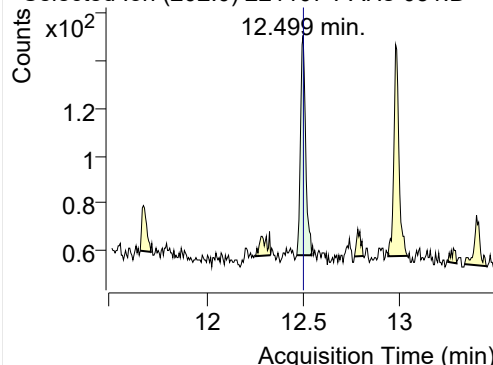
178.0, 179.0, 176.0



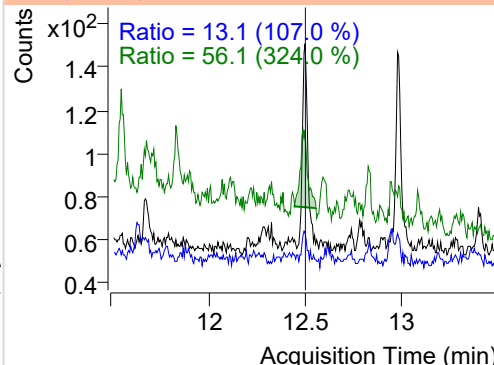
+ SIM (9.754-9.875 min, 12 scans) (**) 221107

**Fluoranthene**

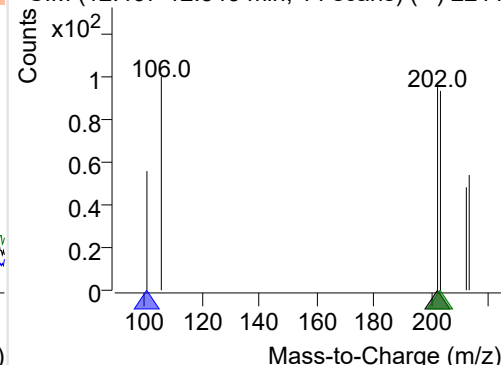
+ Selected Ion (202.0) 221107-PAHs-031.D



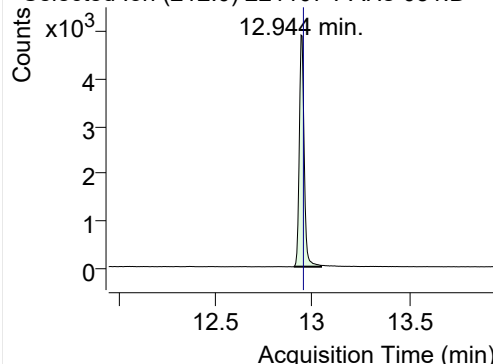
202.0, 101.0, 203.0



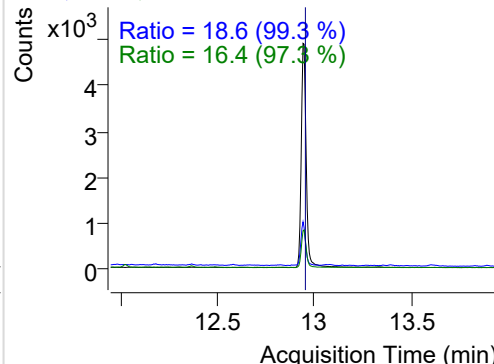
+ SIM (12.467-12.543 min, 14 scans) (**) 2211

**LSS-D10-Pyrene**

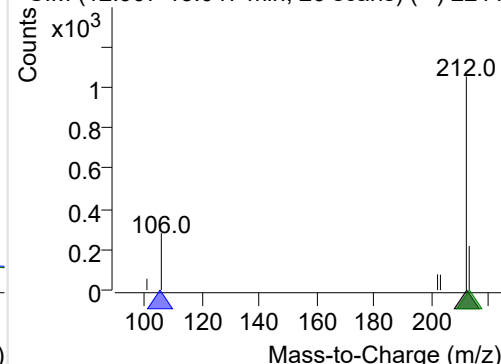
+ Selected Ion (212.0) 221107-PAHs-031.D



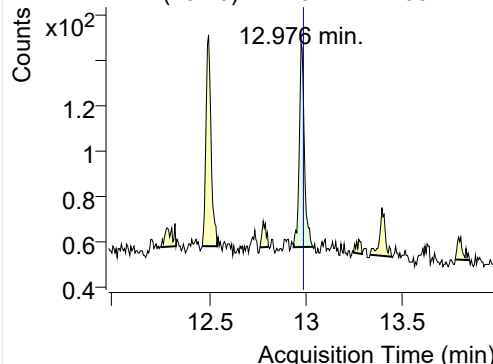
212.0, 106.0, 213.0



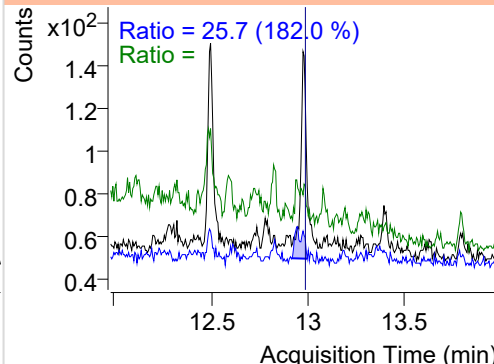
+ SIM (12.907-13.047 min, 26 scans) (**) 2211

**Pyrene**

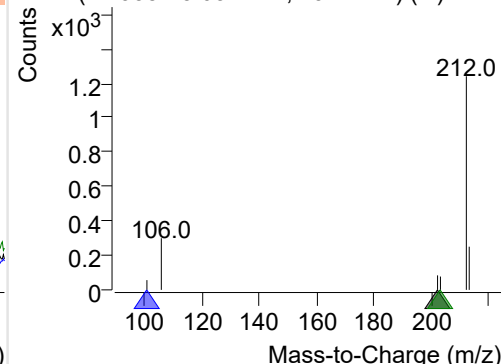
+ Selected Ion (202.0) 221107-PAHs-031.D



202.0, 101.0, 203.0



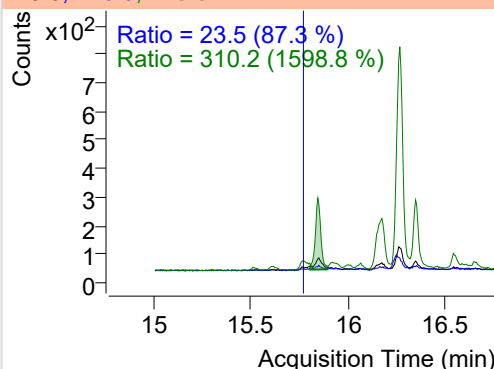
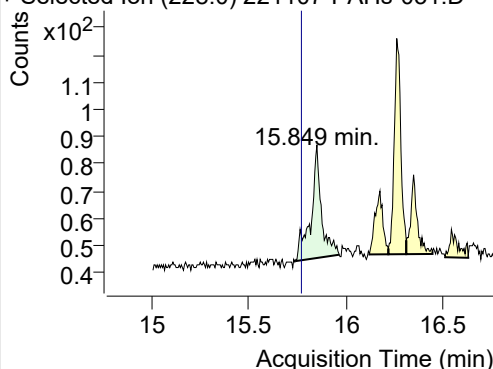
+ SIM (12.938-13.037 min, 19 scans) (**) 2211



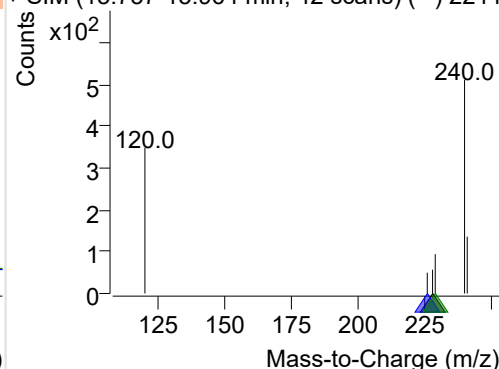
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-031.D

228.0, 226.0, 229.0

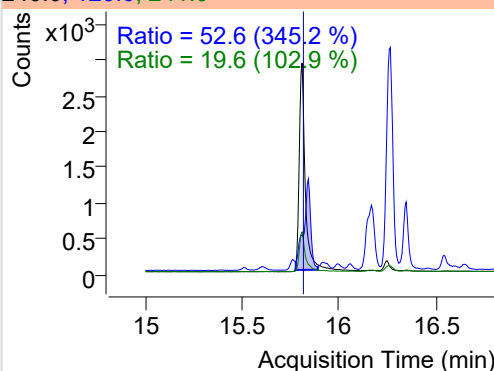
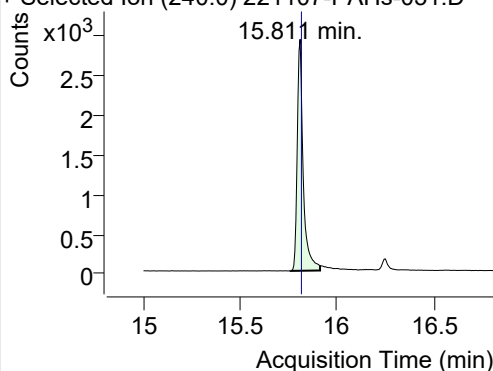


+ SIM (15.737-15.964 min, 42 scans) (**) 2211

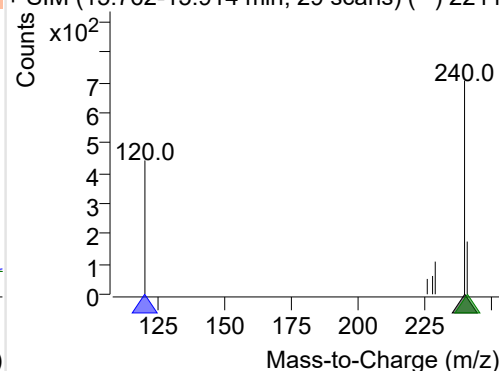
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-031.D

240.0, 120.0, 241.0

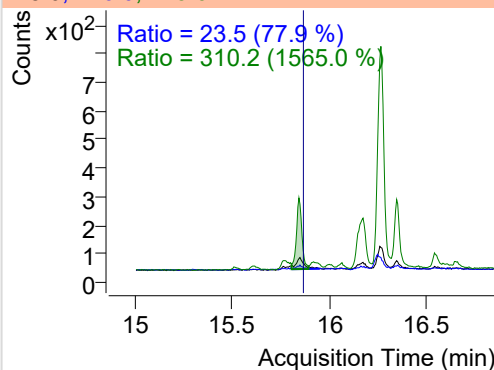
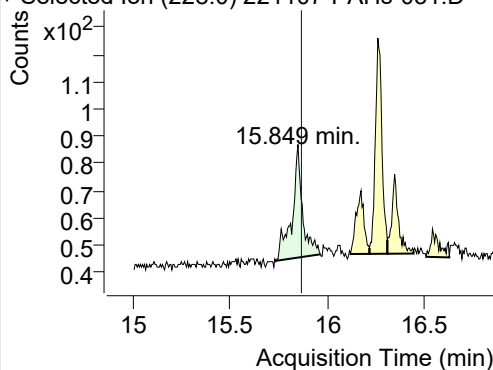


+ SIM (15.762-15.914 min, 29 scans) (**) 2211

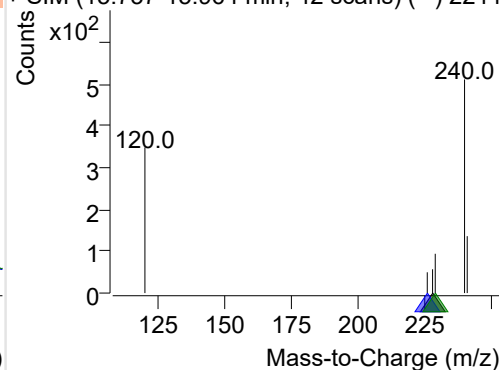
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-031.D

228.0, 226.0, 229.0

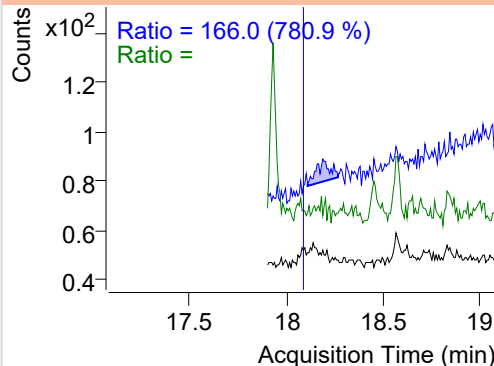
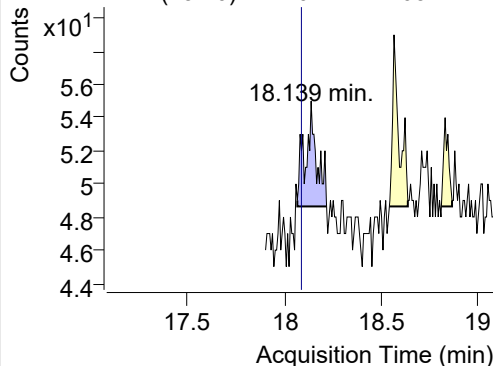


+ SIM (15.737-15.964 min, 42 scans) (**) 2211

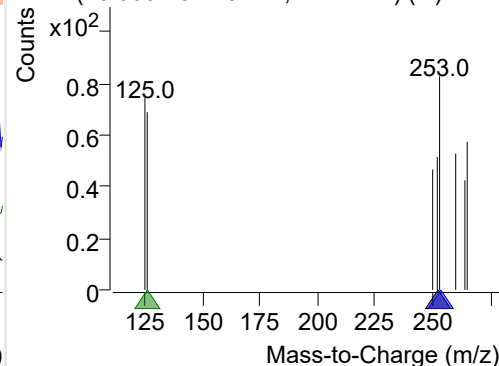
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-031.D

252.0, 253.0, 126.0



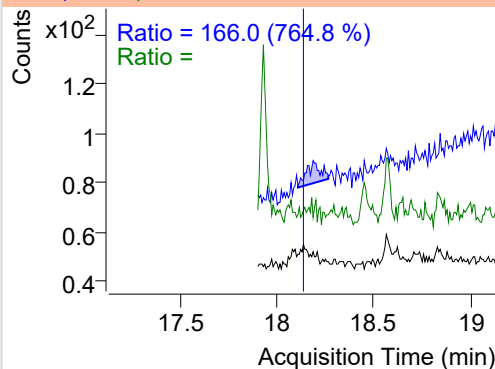
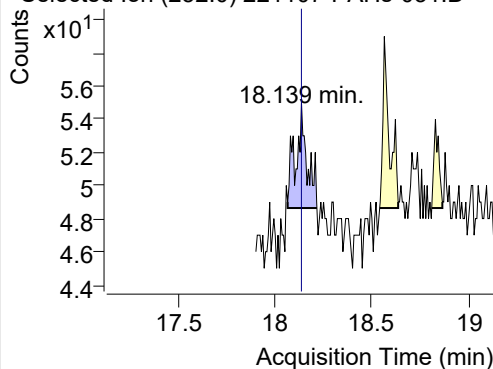
+ SIM (18.068-18.218 min, 22 scans) (**) 2211



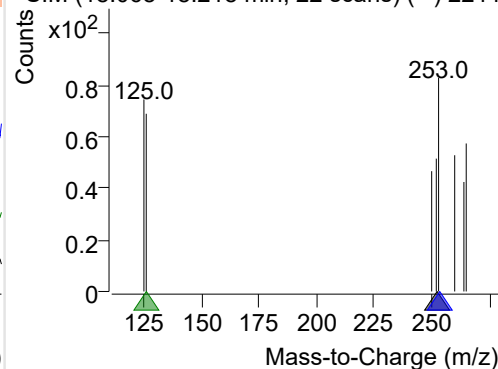
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-031.D

252.0, 253.0, 126.0

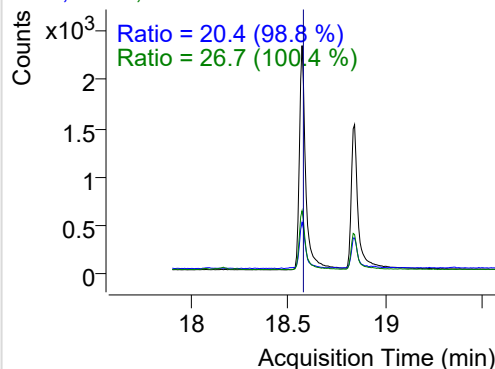
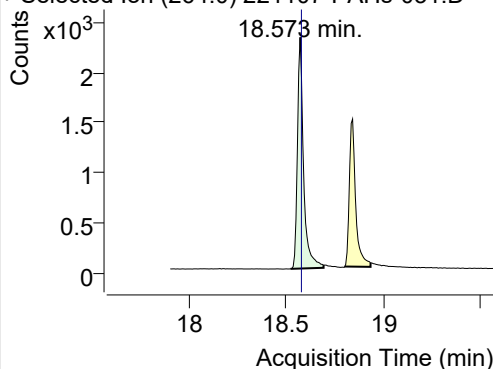


+ SIM (18.068-18.218 min, 22 scans) (**) 2211

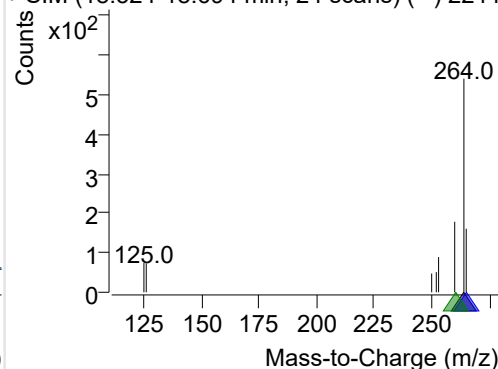
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-031.D

264.0, 265.0, 260.0

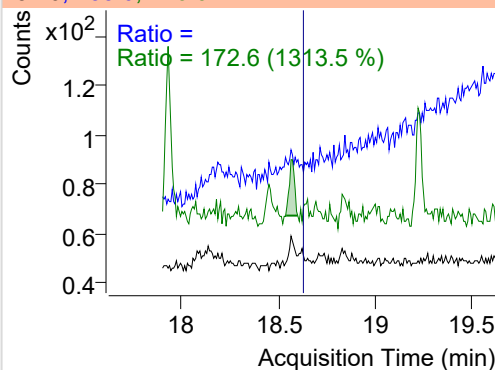
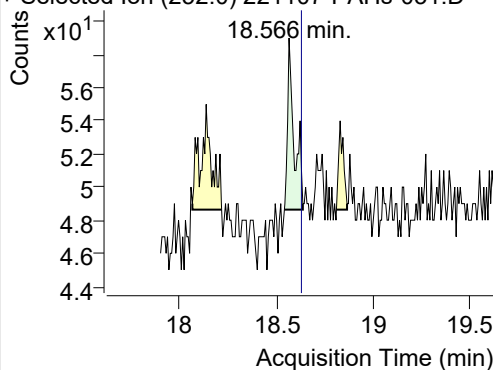


+ SIM (18.524-18.694 min, 24 scans) (**) 2211

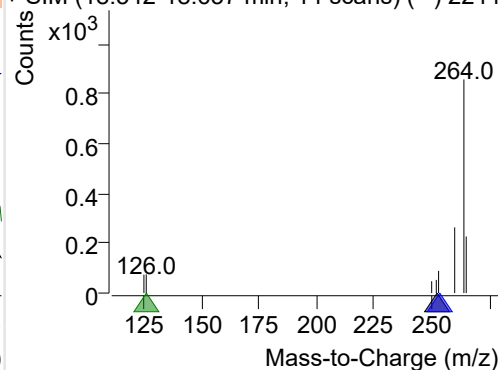
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-031.D

252.0, 253.0, 126.0

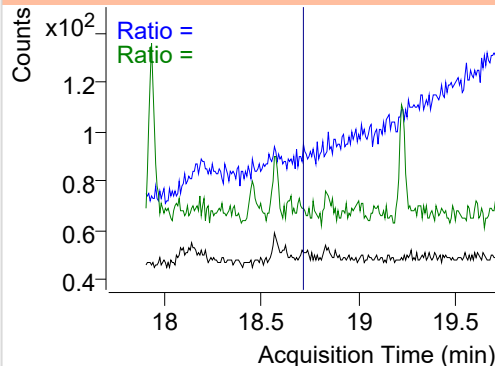
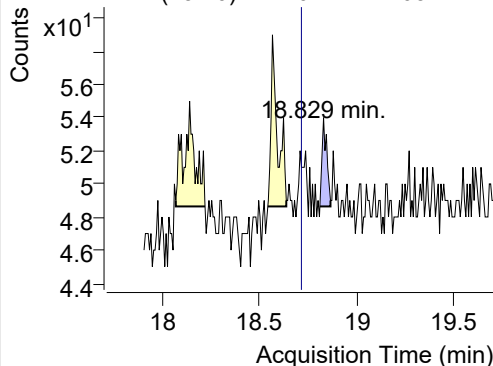


+ SIM (18.542-18.637 min, 14 scans) (**) 2211

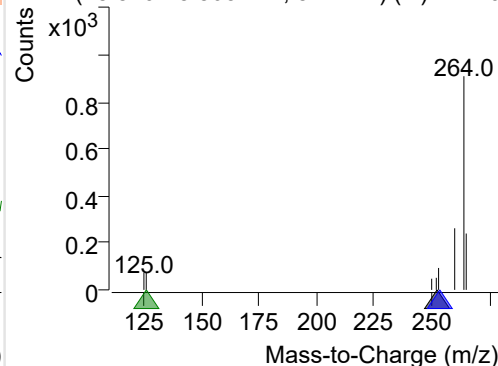
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-031.D

252.0, 253.0, 126.0

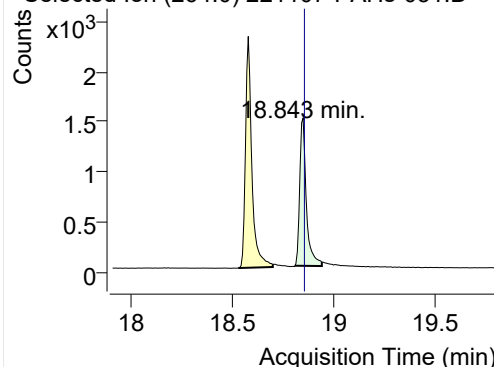


+ SIM (18.810-18.865 min, 8 scans) (**) 22110

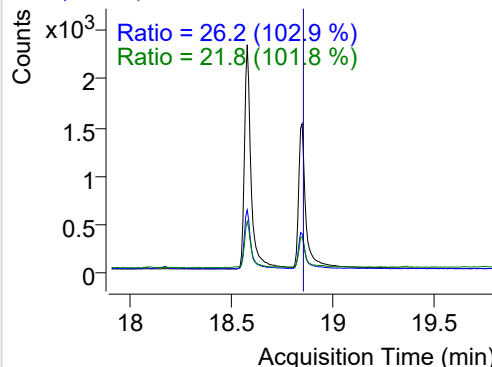


IS-D12-Perylene

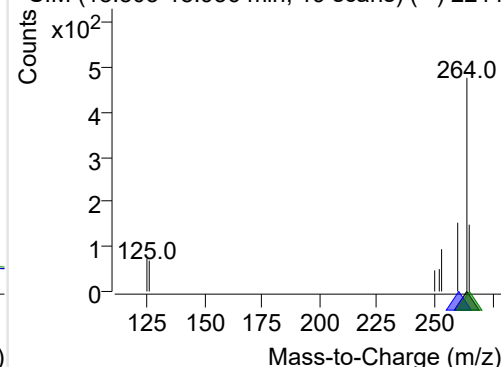
+ Selected Ion (264.0) 221107-PAHs-031.D



264.0, 260.0, 265.0

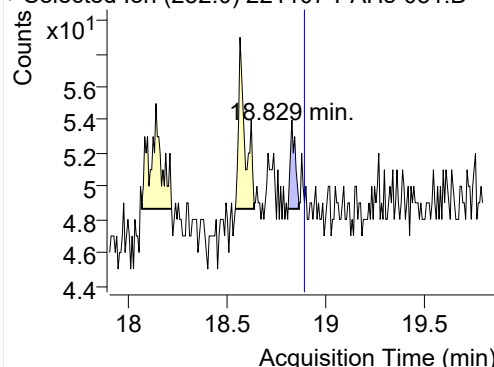


+ SIM (18.803-18.936 min, 19 scans) (**) 2211

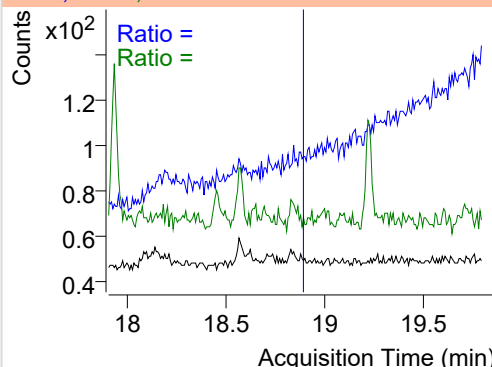


Perylene

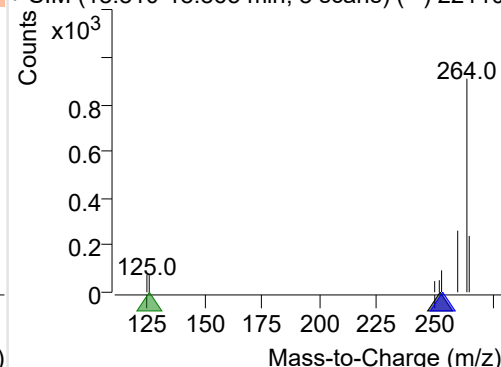
+ Selected Ion (252.0) 221107-PAHs-031.D



252.0, 253.0, 126.0

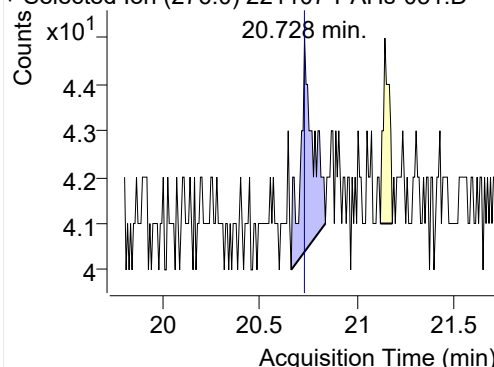


+ SIM (18.810-18.865 min, 8 scans) (**) 22110

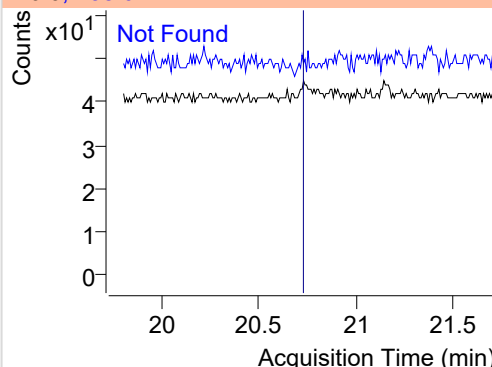


Indeno(1,2,3-c,d)pyrene

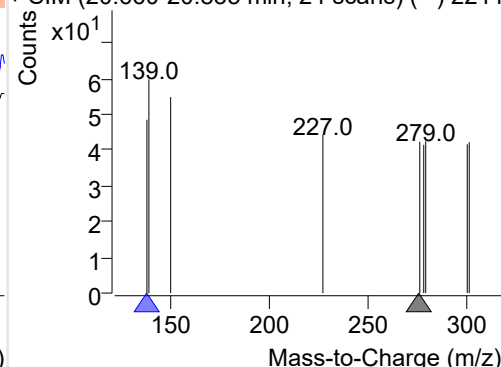
+ Selected Ion (276.0) 221107-PAHs-031.D



276.0, 138.0

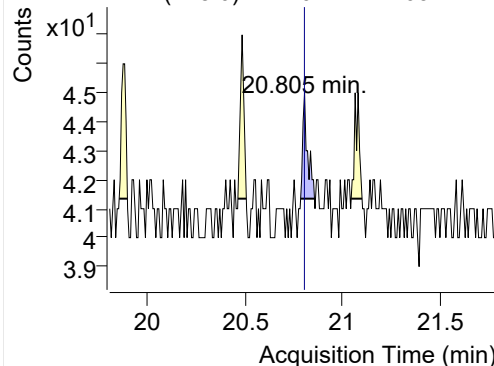


+ SIM (20.660-20.835 min, 24 scans) (**) 2211

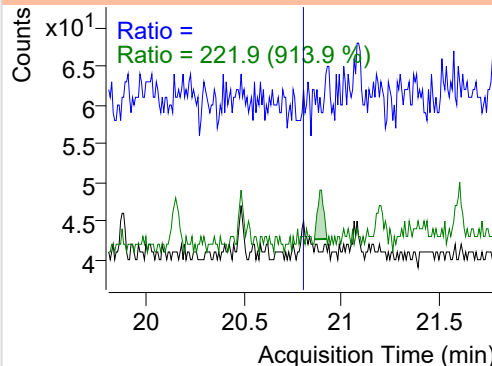


Dibenz(a,h)anthracene

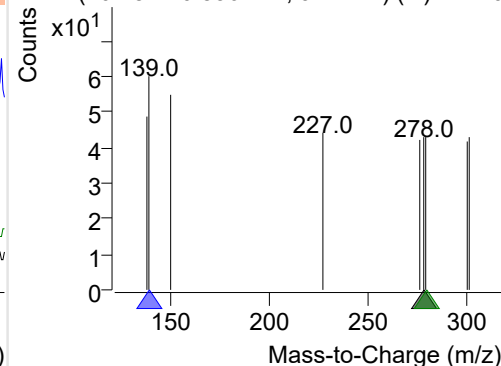
+ Selected Ion (278.0) 221107-PAHs-031.D



278.0, 139.0, 279.0



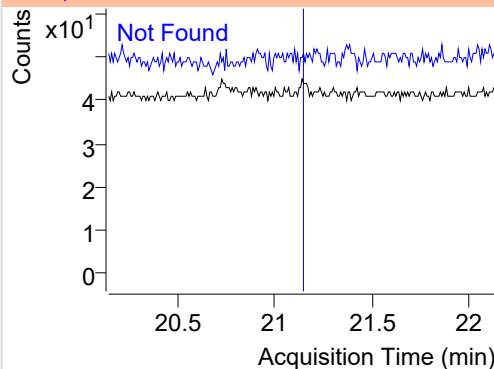
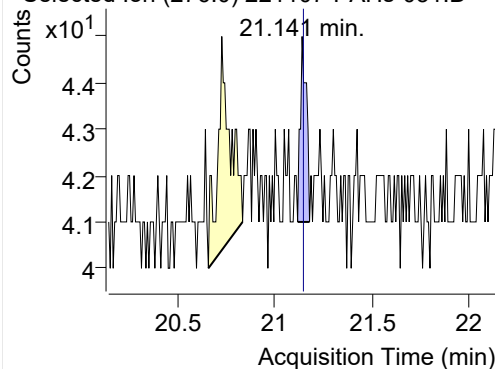
+ SIM (20.784-20.856 min, 9 scans) (**) 22110



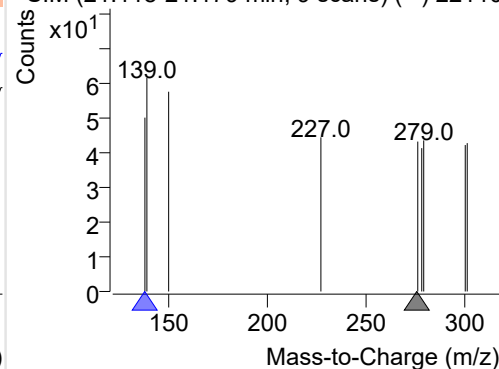
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-031.D

276.0, 138.0

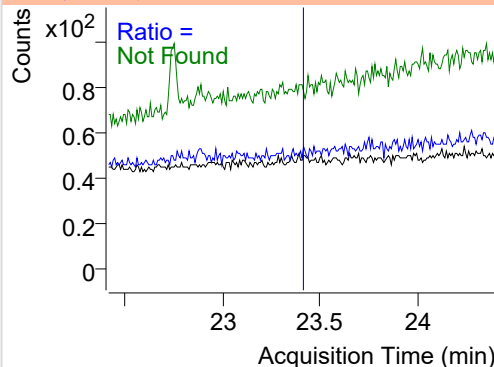
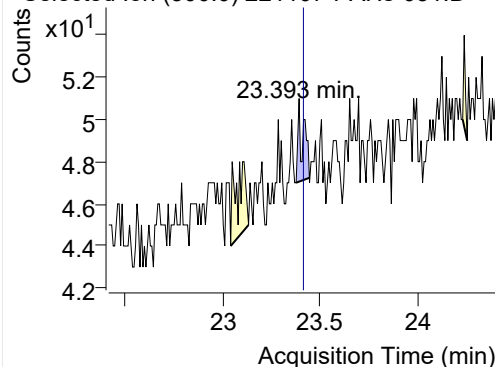


+ SIM (21.118-21.179 min, 9 scans) (**) 22110

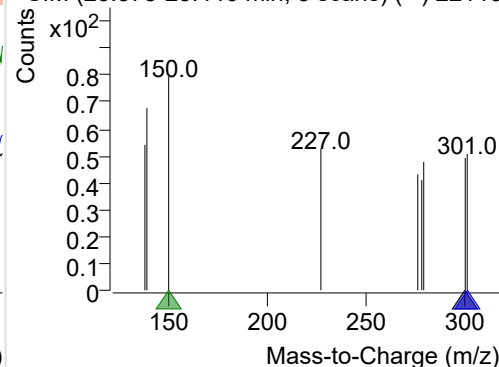
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-031.D

300.0, 301.0, 150.0



+ SIM (23.378-23.446 min, 8 scans) (**) 22110



Quantitative Analysis Sample Based Report

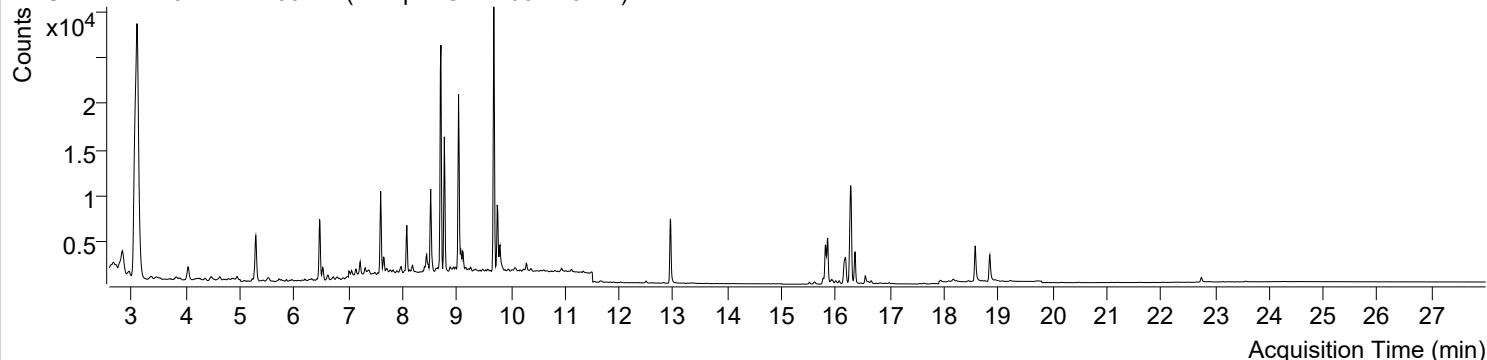


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 8:04:45	Data File	221107-PAHs-032.D
Type	Sample	Name	Sample-Gas-1002-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

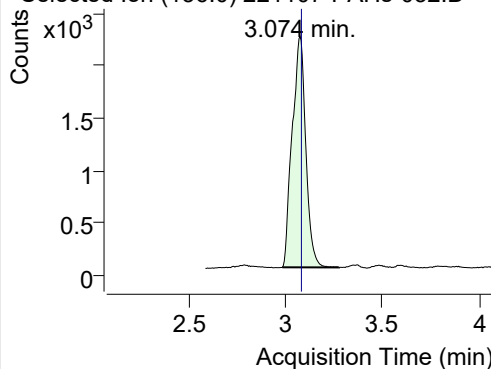
+ TIC SIM 221107-PAHs-032.D (Sample-Gas-1002-10DIL)



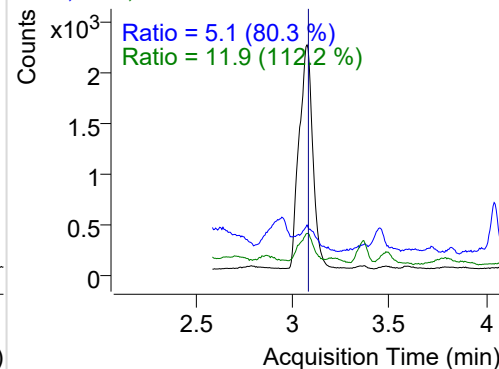
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	10738	2209.69	ND ng/ml	11.9
Naphthalene	3.101	128.0	100234	21027.23	ND ng/ml	13.8
Acenaphthylene	6.143	152.0	105	51.36	ND ng/ml	70.6
IS-D10-Acenaphthene	6.469	164.0	5874	3114.08	ND ng/ml	98.9
Acenaphthene	6.534	154.0	699	364.37	ND ng/ml	114.1
LSS-D10-Fluorene	7.595	176.0	6605	3915.31	ND ng/ml	95.9
Fluorene	7.648	166.0	1566	770.96	ND ng/ml	107.3
IS-D10-Phenanthrene	9.748	188.0	10306	5591.25	ND ng/ml	18.3
Phenanthrene	9.801	178.0	3327	1707.87	ND ng/ml	20.2
Anthracene	9.801	178.0	3327	1707.87	ND ng/ml	20.2
Fluoranthene	12.499	202.0	229	129.27	ND ng/ml	54.5
LSS-D10-Pyrene	12.949	212.0	9072	5150.59	ND ng/ml	18.5
Pyrene	12.976	202.0	261	140.03	ND ng/ml	25.4
Benz(a)anthracene	15.849	228.0	239	96.17	ND ng/ml	24.7
IS-D12-Chrysene	15.805	240.0	6675	2976.08	ND ng/ml	20.5
Chrysene	15.849	228.0	239	96.17	ND ng/ml	24.7
Benzo(b)fluoranthene	18.131	252.0	18	6.10	ND ng/ml	817.2
Benzo(k)fluoranthene	18.131	252.0	18	6.10	ND ng/ml	817.2
SS-D12-Benzo(e)pyrene	18.573	264.0	5714	2637.96	ND ng/ml	25.9
Benzo(e)pyrene	18.573	252.0	43	13.21	ND ng/ml	
Benzo(a)pyrene	18.758	252.0	14	6.48	ND ng/ml	
IS-D12-Perylene	18.843	264.0	4438	1932.56	ND ng/ml	24.5
Perylene	18.829	252.0	25	9.59	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.728	276.0	6	4.28	ND ng/ml	
Dibenz(a,h)anthracene	20.805	278.0	8	5.01	ND ng/ml	198.6
Benzo(g,h,i)perylene	21.156	276.0	5	4.39	ND ng/ml	324.2
Coronene	23.248	300.0	7	5.00	ND ng/ml	

IS-D8-Naphthalene

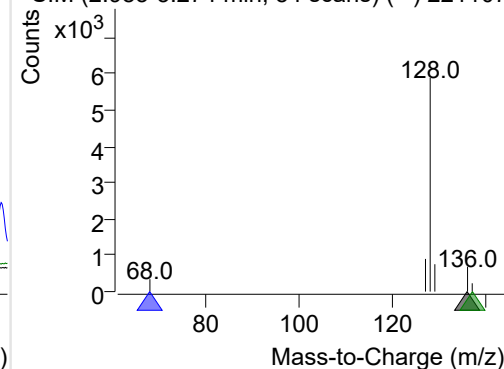
+ Selected Ion (136.0) 221107-PAHs-032.D



136.0, 68.0, 137.0

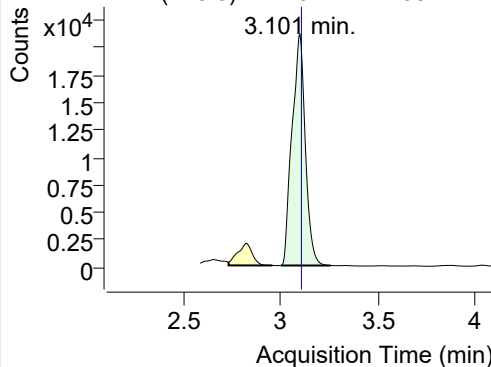


+ SIM (2.983-3.274 min, 54 scans) (**) 221107

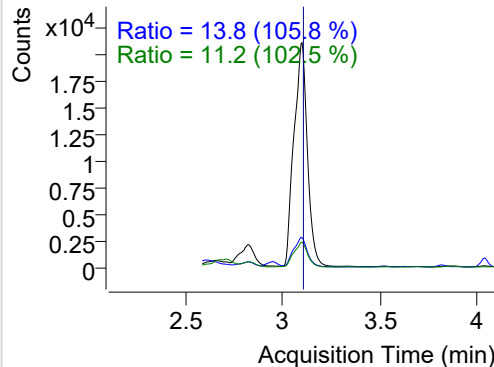


Naphthalene

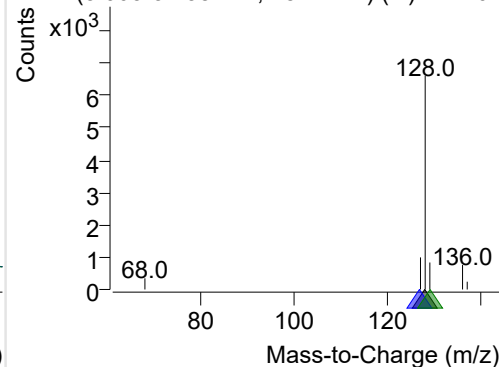
+ Selected Ion (128.0) 221107-PAHs-032.D



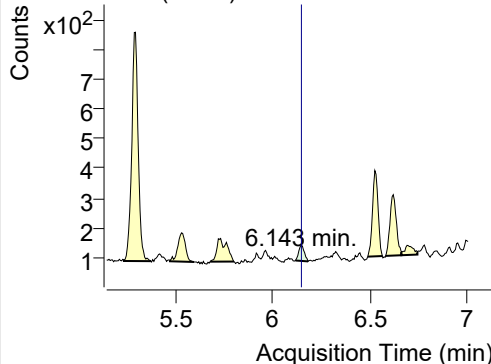
128.0, 127.0, 129.0



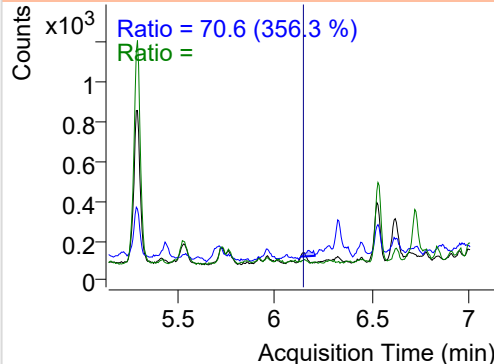
+ SIM (3.003-3.258 min, 48 scans) (**) 221107

**Acenaphthylene**

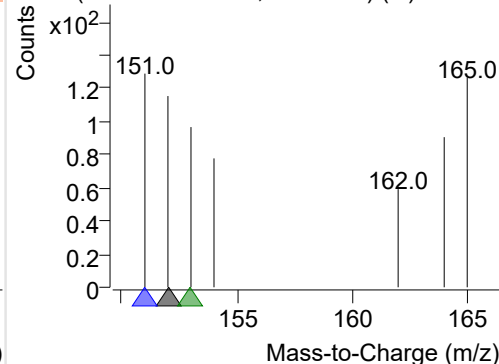
+ Selected Ion (152.0) 221107-PAHs-032.D



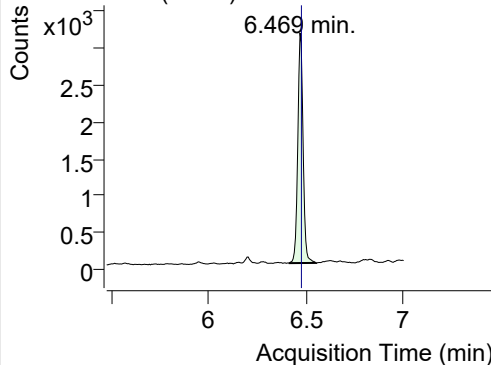
152.0, 151.0, 153.0



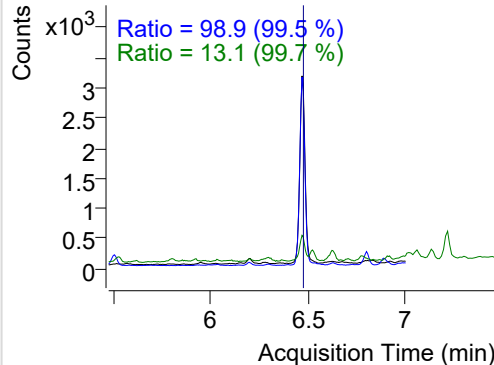
+ SIM (6.114-6.179 min, 11 scans) (**) 221107

**IS-D10-Acenaphthene**

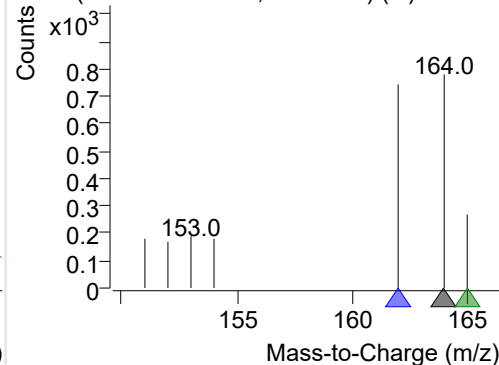
+ Selected Ion (164.0) 221107-PAHs-032.D



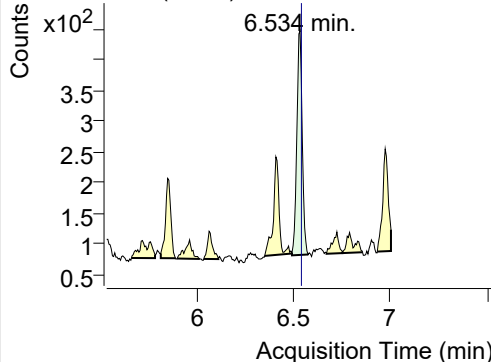
164.0, 162.0, 165.0



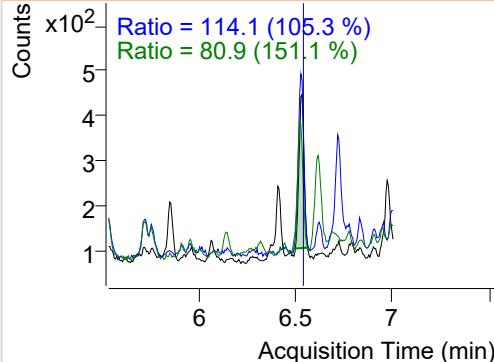
+ SIM (6.416-6.552 min, 24 scans) (**) 221107

**Acenaphthene**

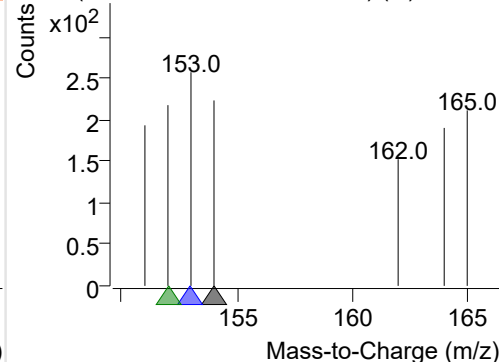
+ Selected Ion (154.0) 221107-PAHs-032.D



154.0, 153.0, 152.0

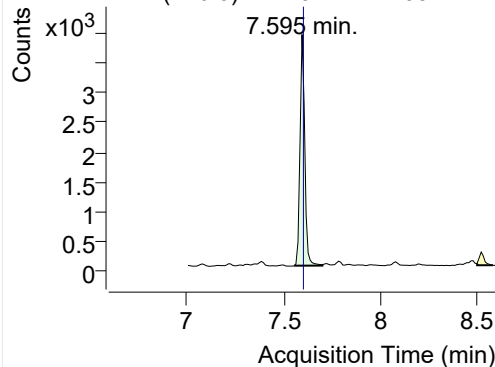


+ SIM (6.492-6.575 min, 14 scans) (**) 221107

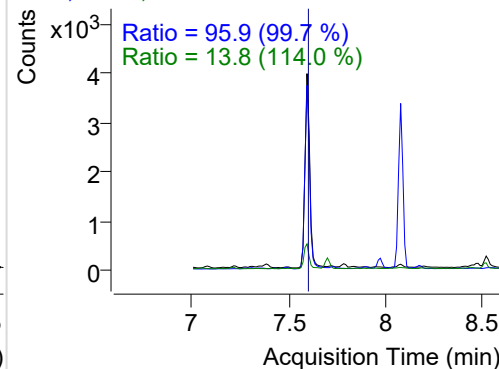


LSS-D10-Fluorene

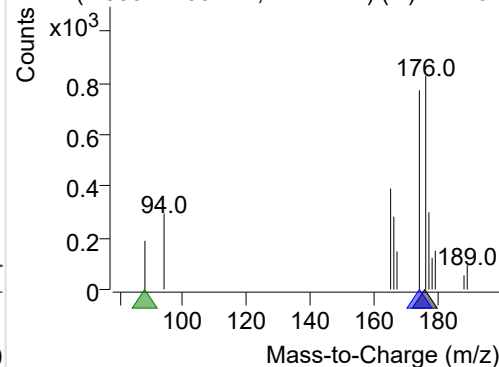
+ Selected Ion (176.0) 221107-PAHs-032.D



176.0, 174.0, 88.0

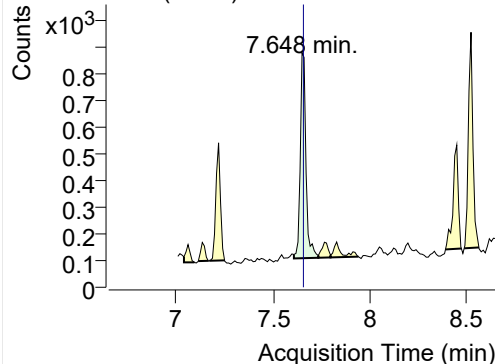


+ SIM (7.555-7.700 min, 14 scans) (**) 221107

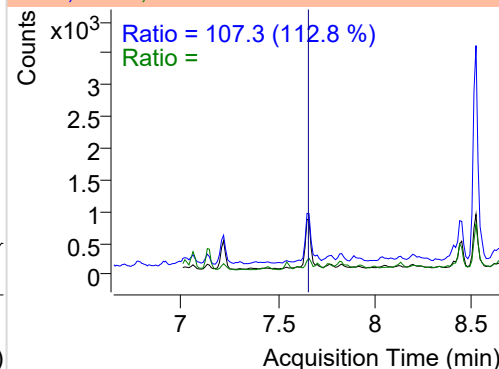


Fluorene

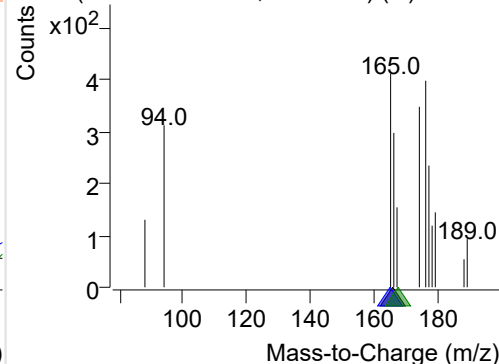
+ Selected Ion (166.0) 221107-PAHs-032.D



166.0, 165.0, 167.0

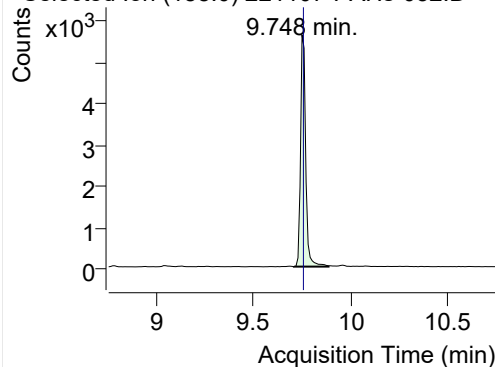


+ SIM (7.606-7.732 min, 13 scans) (**) 221107

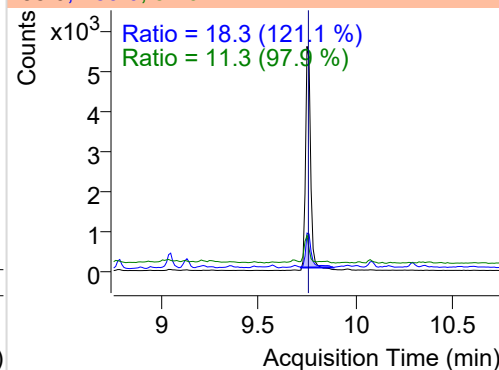


IS-D10-Phenanthrene

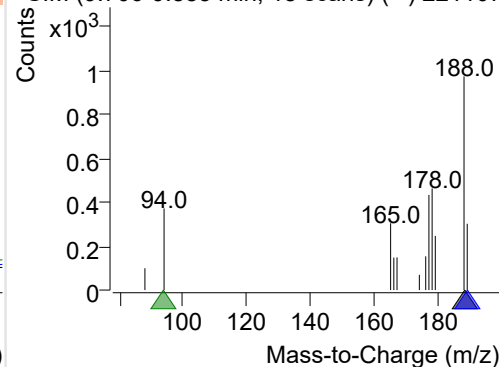
+ Selected Ion (188.0) 221107-PAHs-032.D



188.0, 189.0, 94.0

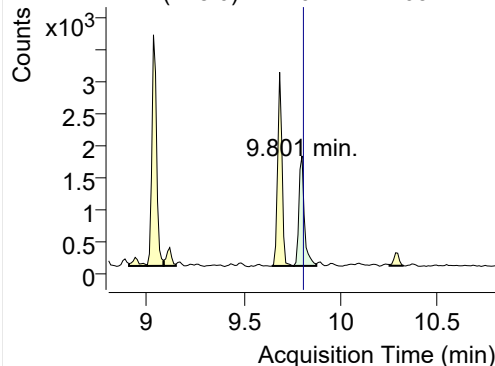


+ SIM (9.706-9.885 min, 18 scans) (**) 221107

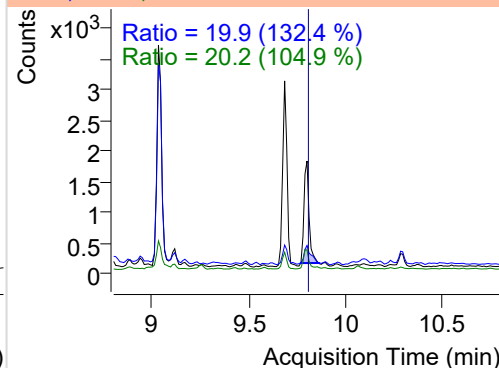


Phenanthrene

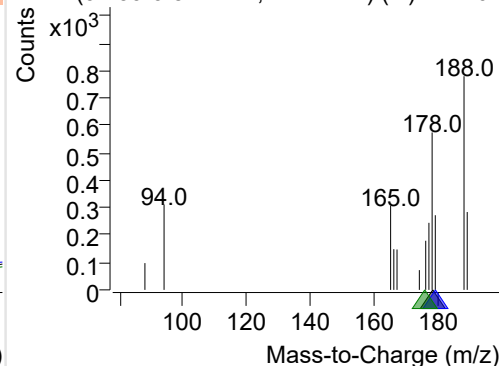
+ Selected Ion (178.0) 221107-PAHs-032.D



178.0, 179.0, 176.0

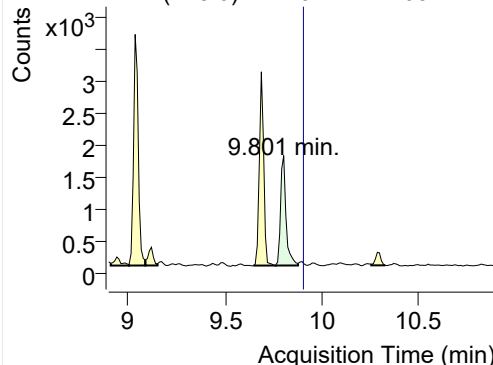


+ SIM (9.759-9.874 min, 12 scans) (**) 221107

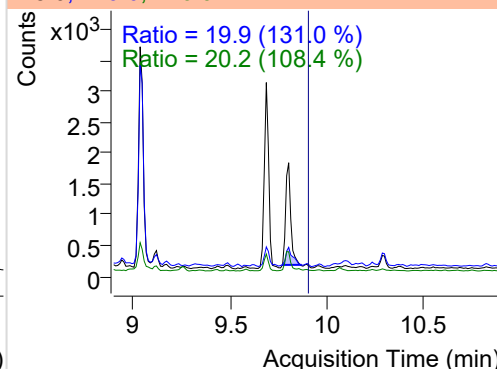


Anthracene

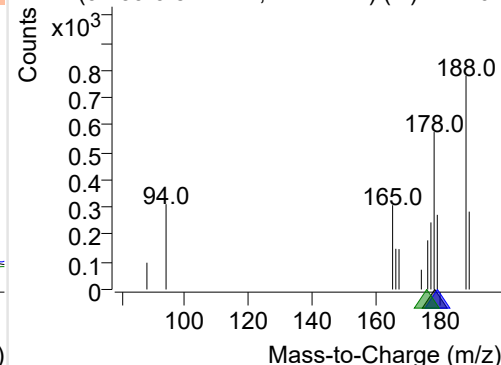
+ Selected Ion (178.0) 221107-PAHs-032.D



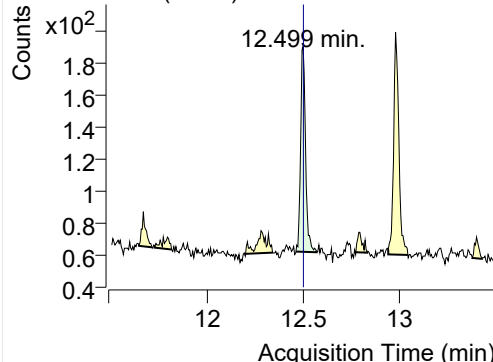
178.0, 179.0, 176.0



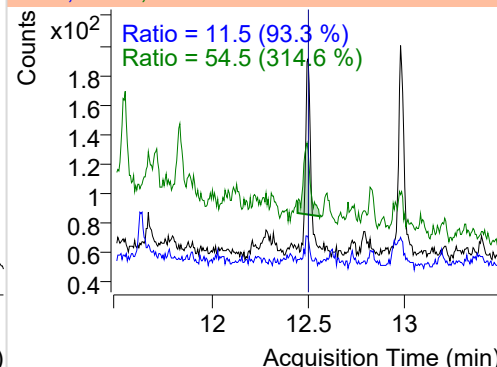
+ SIM (9.759-9.874 min, 12 scans) (**) 221107

**Fluoranthene**

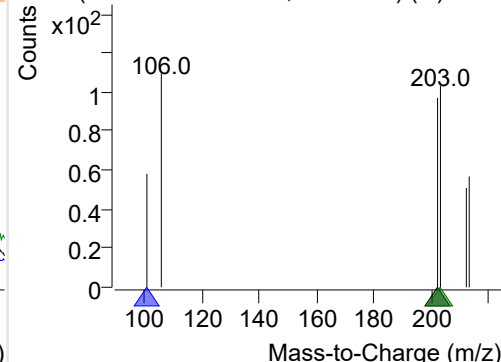
+ Selected Ion (202.0) 221107-PAHs-032.D



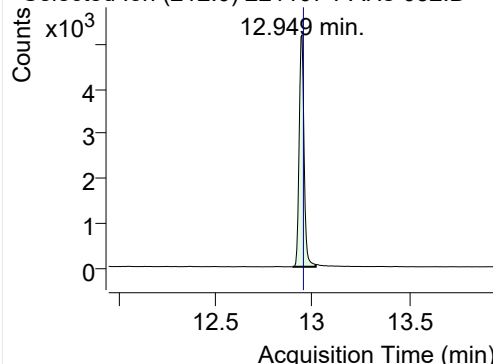
202.0, 101.0, 203.0



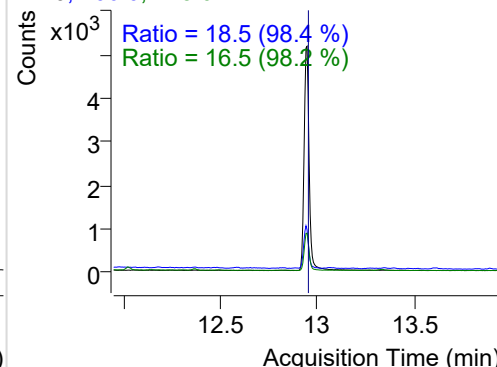
+ SIM (12.462-12.569 min, 20 scans) (**) 2211

**LSS-D10-Pyrene**

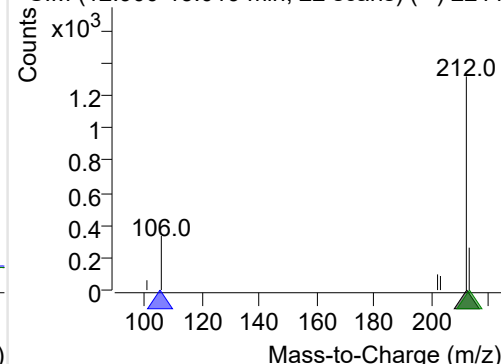
+ Selected Ion (212.0) 221107-PAHs-032.D



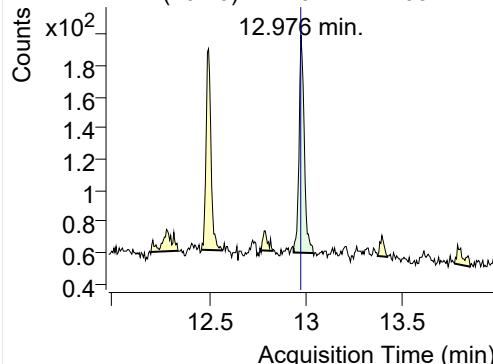
212.0, 106.0, 213.0



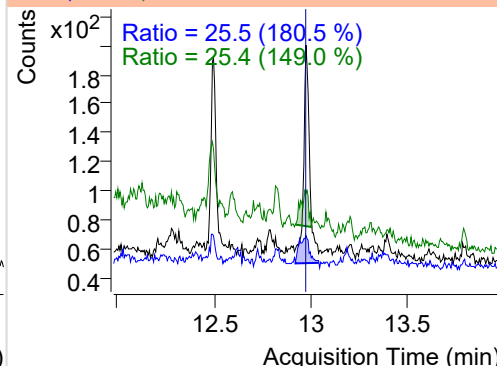
+ SIM (12.900-13.019 min, 22 scans) (**) 2211

**Pyrene**

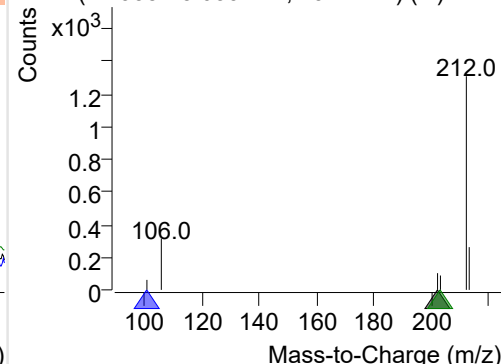
+ Selected Ion (202.0) 221107-PAHs-032.D



202.0, 101.0, 203.0



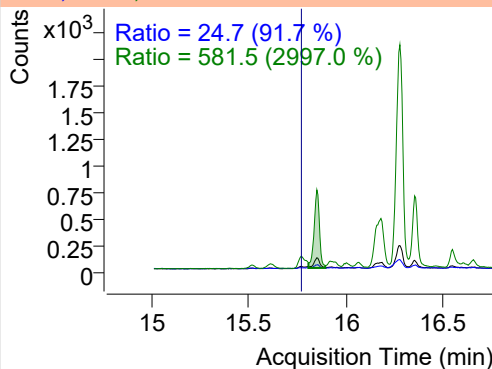
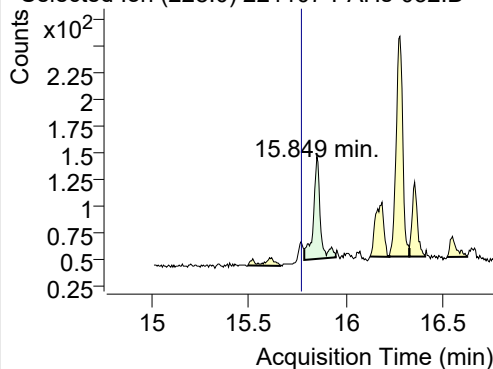
+ SIM (12.938-13.039 min, 19 scans) (**) 2211



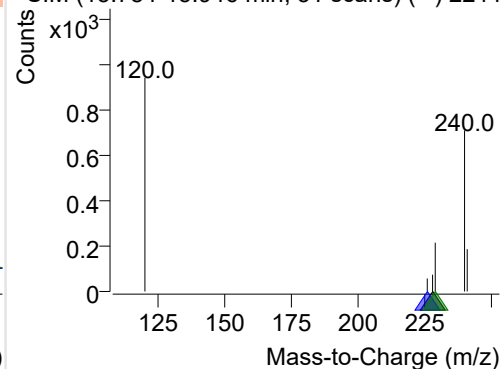
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-032.D

228.0, 226.0, 229.0

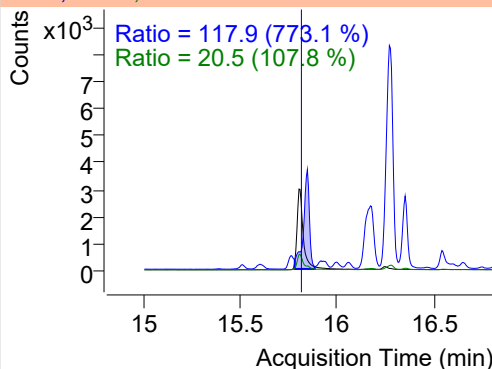
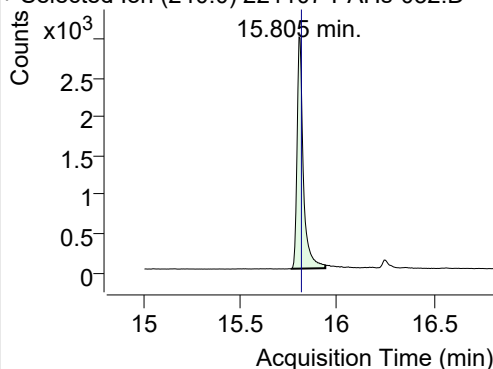


+ SIM (15.784-15.946 min, 31 scans) (**) 2211

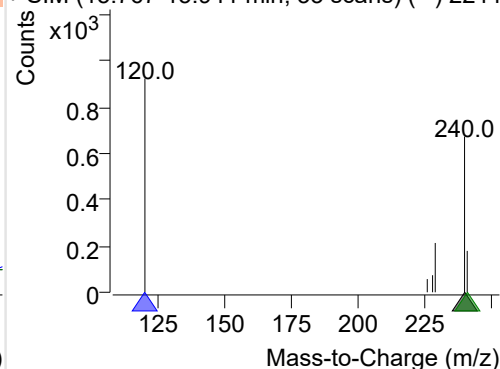
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-032.D

240.0, 120.0, 241.0

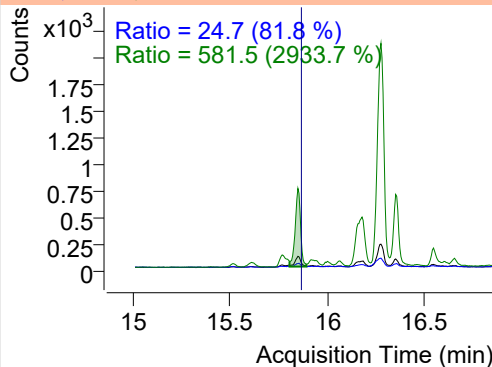
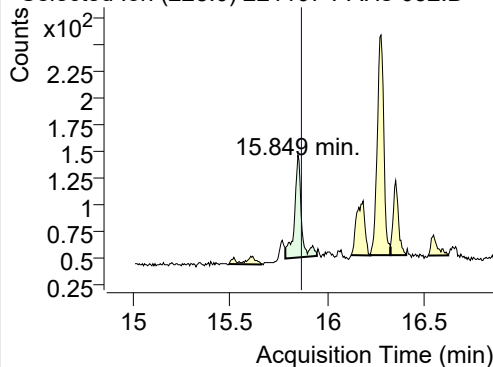


+ SIM (15.767-15.941 min, 33 scans) (**) 2211

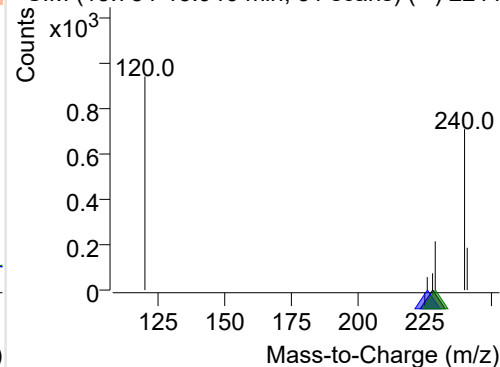
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-032.D

228.0, 226.0, 229.0

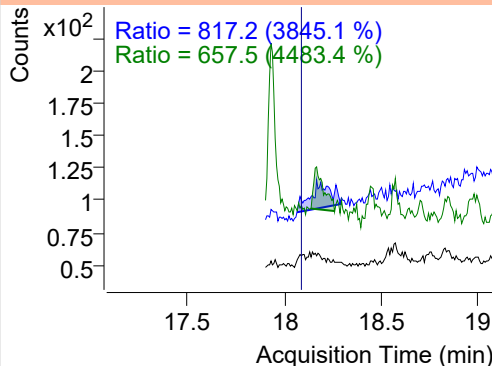
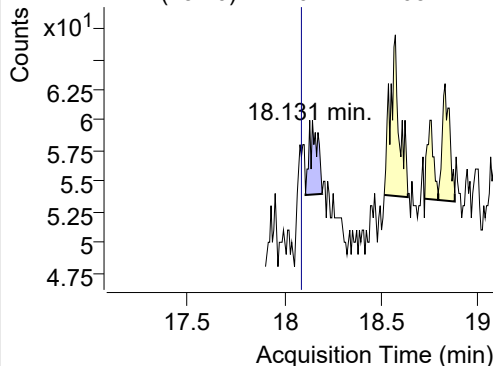


+ SIM (15.784-15.946 min, 31 scans) (**) 2211

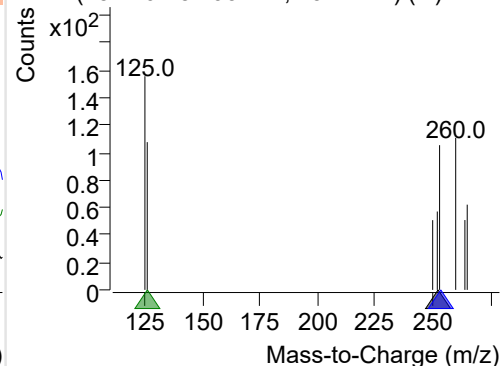
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-032.D

252.0, 253.0, 126.0



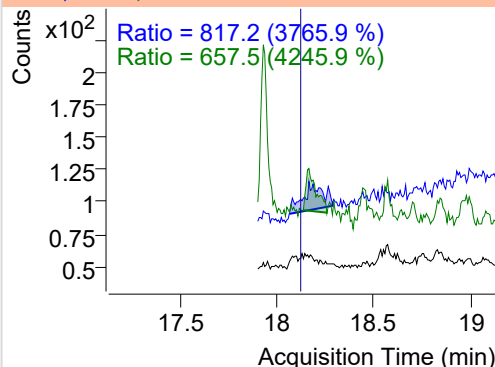
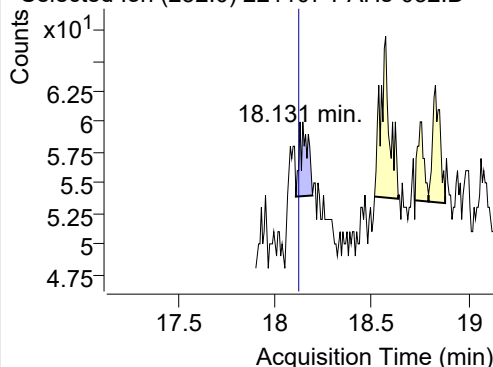
+ SIM (18.110-18.195 min, 13 scans) (**) 2211



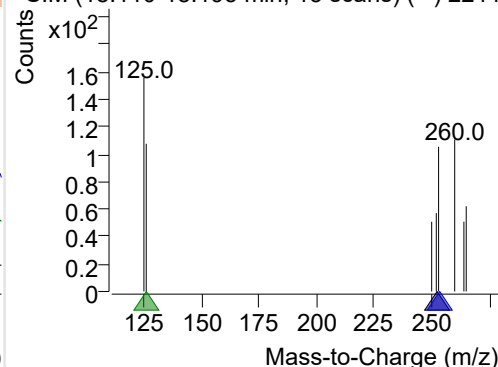
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-032.D

252.0, 253.0, 126.0

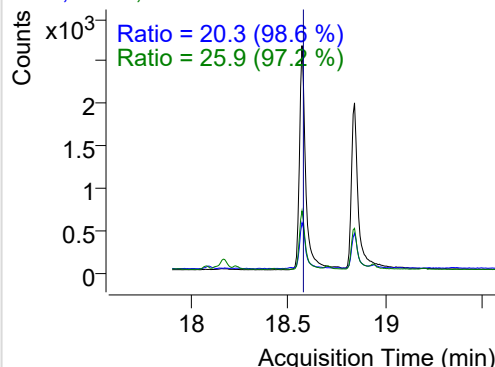
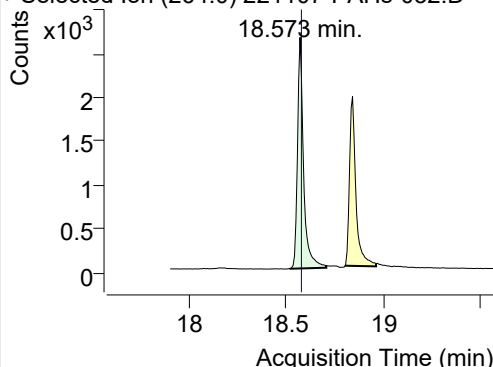


+ SIM (18.110-18.195 min, 13 scans) (**) 2211

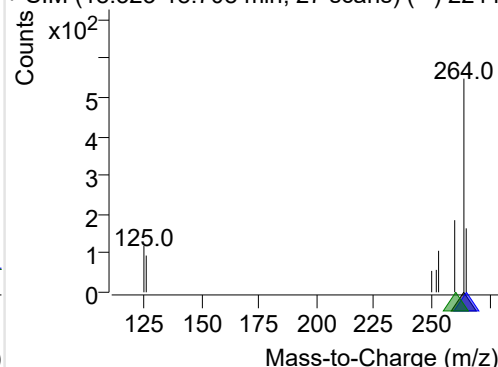
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-032.D

264.0, 265.0, 260.0

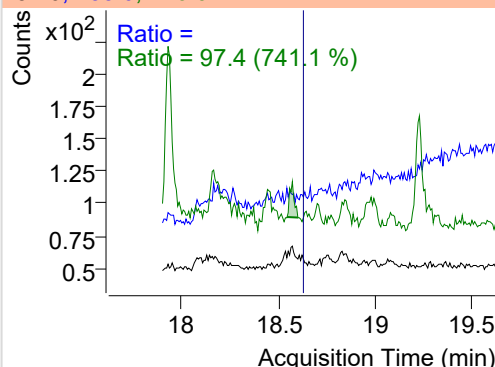
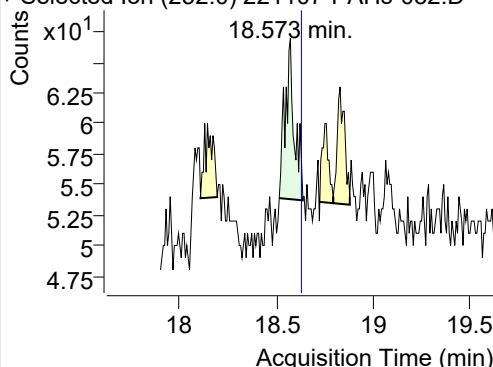


+ SIM (18.523-18.708 min, 27 scans) (**) 2211

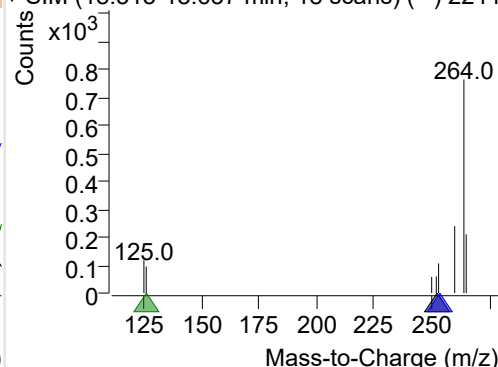
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-032.D

252.0, 253.0, 126.0

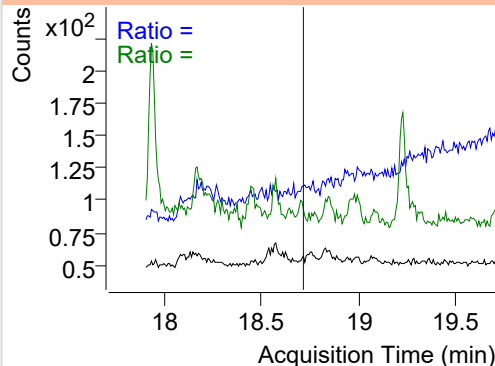
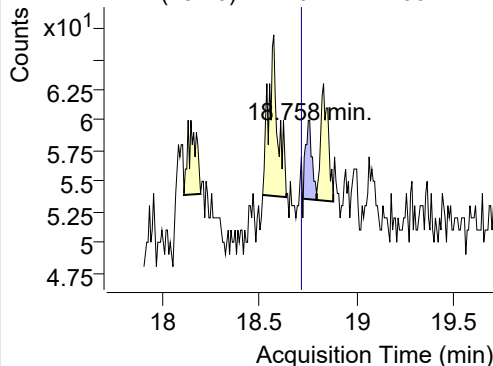


+ SIM (18.515-18.637 min, 18 scans) (**) 2211

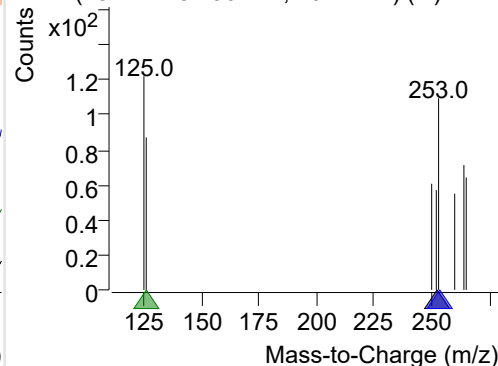
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-032.D

252.0, 253.0, 126.0

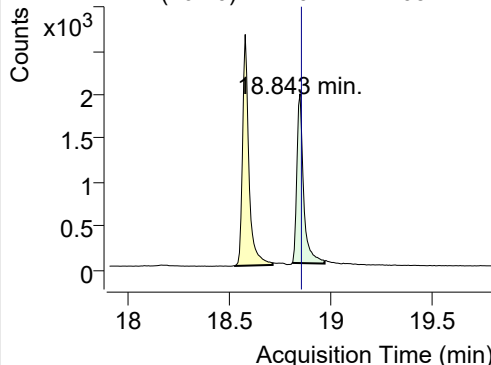


+ SIM (18.724-18.793 min, 10 scans) (**) 2211

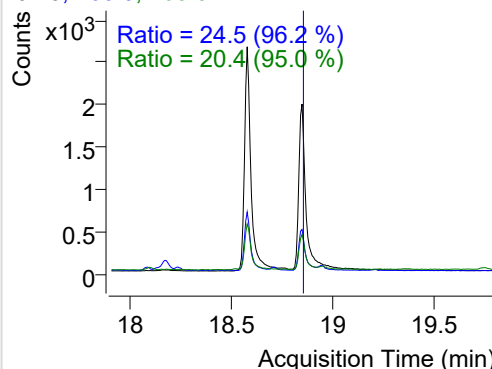


IS-D12-Perylene

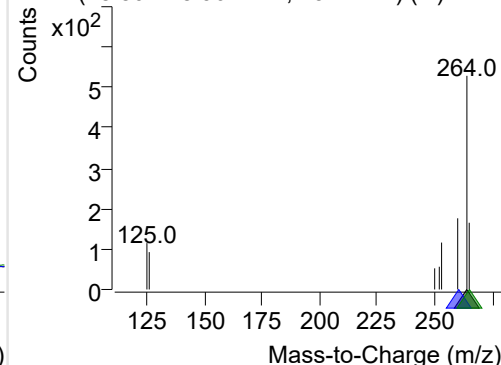
+ Selected Ion (264.0) 221107-PAHs-032.D



264.0, 260.0, 265.0

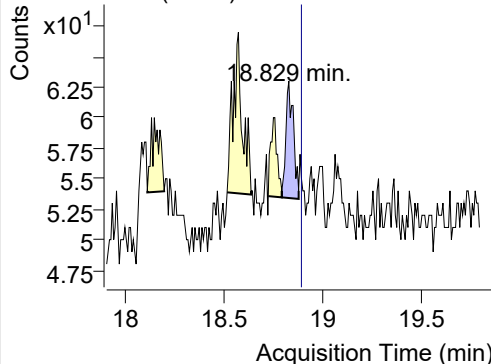


+ SIM (18.804-18.964 min, 23 scans) (**) 2211

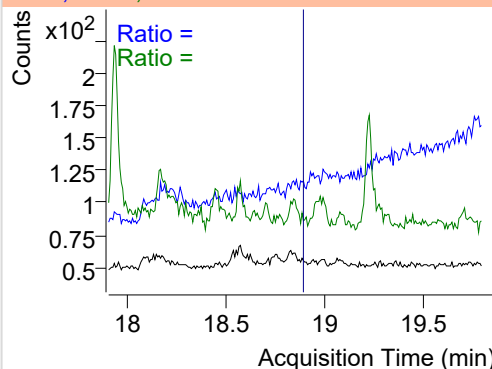


Perylene

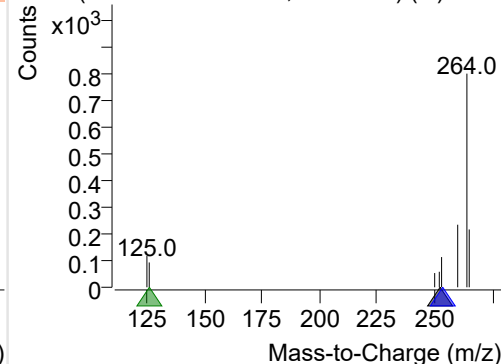
+ Selected Ion (252.0) 221107-PAHs-032.D



252.0, 253.0, 126.0

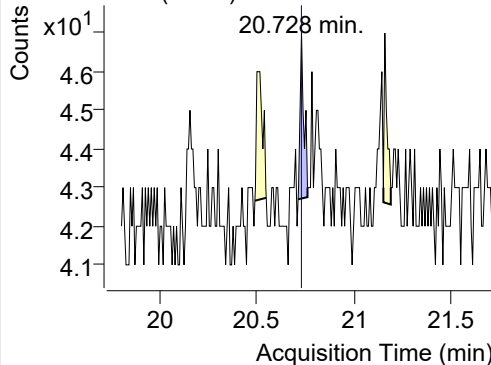


+ SIM (18.793-18.879 min, 13 scans) (**) 2211

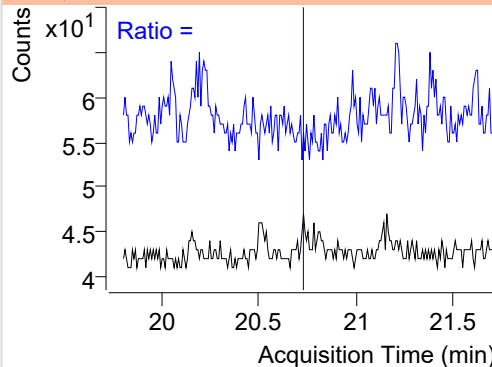


Indeno(1,2,3-c,d)pyrene

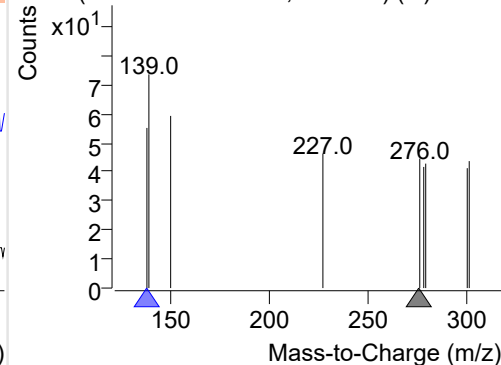
+ Selected Ion (276.0) 221107-PAHs-032.D



276.0, 138.0

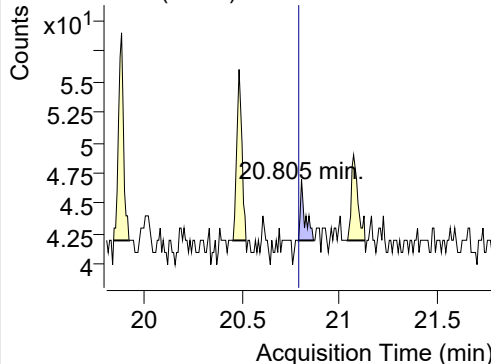


+ SIM (20.711-20.759 min, 7 scans) (**) 22110

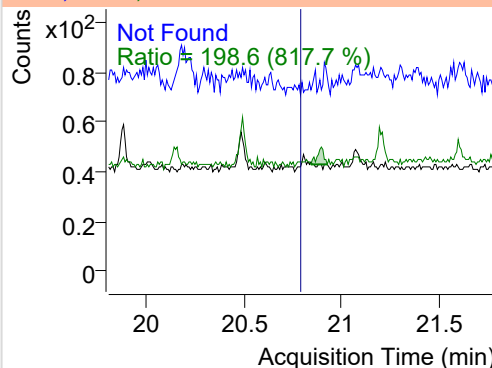


Dibenz(a,h)anthracene

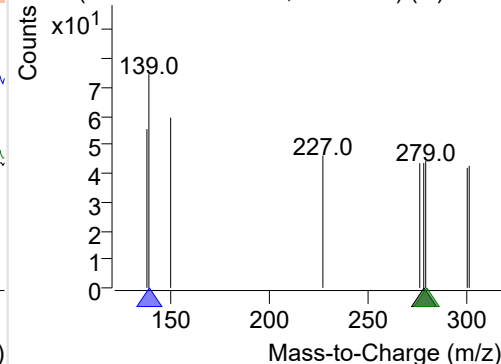
+ Selected Ion (278.0) 221107-PAHs-032.D



278.0, 139.0, 279.0



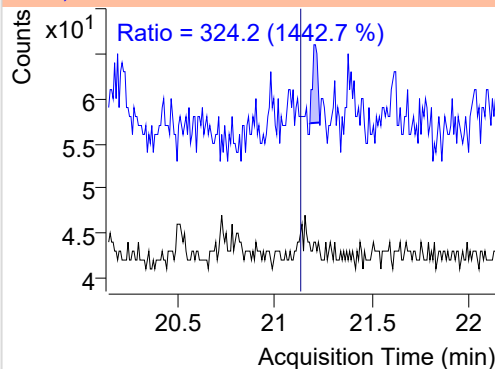
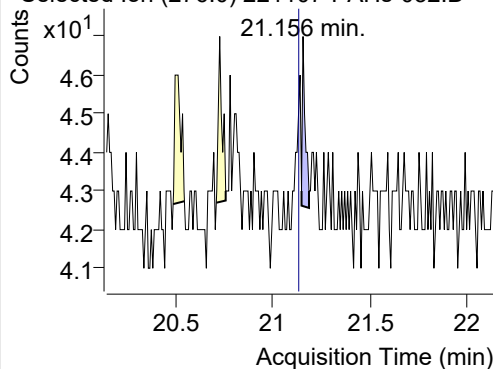
+ SIM (20.789-20.866 min, 11 scans) (**) 2211



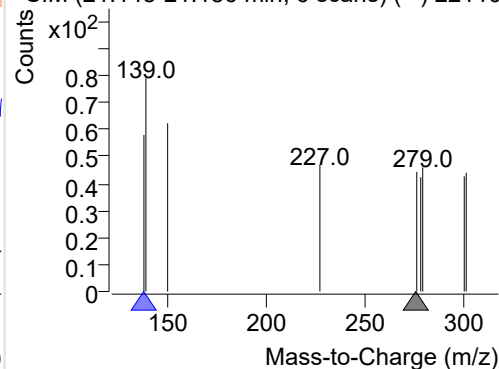
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-032.D

276.0, 138.0

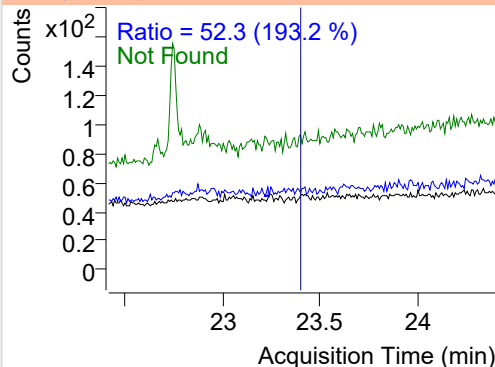
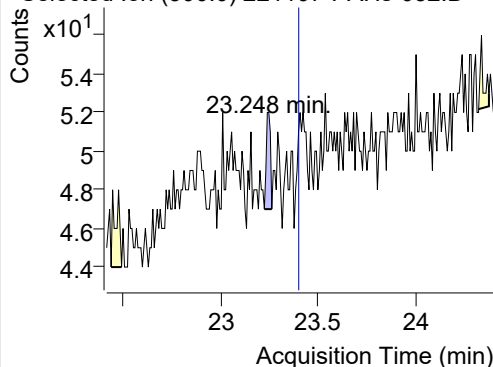


+ SIM (21.148-21.186 min, 6 scans) (**) 22110

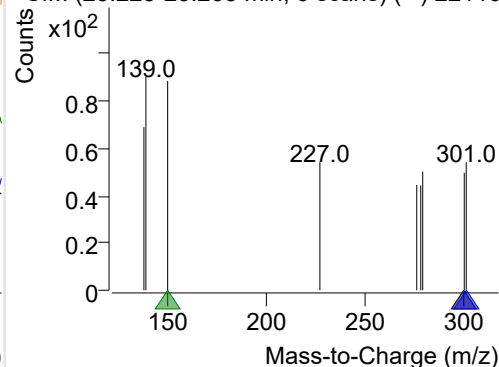
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-032.D

300.0, 301.0, 150.0



+ SIM (23.225-23.263 min, 6 scans) (**) 22110



Quantitative Analysis Sample Based Report

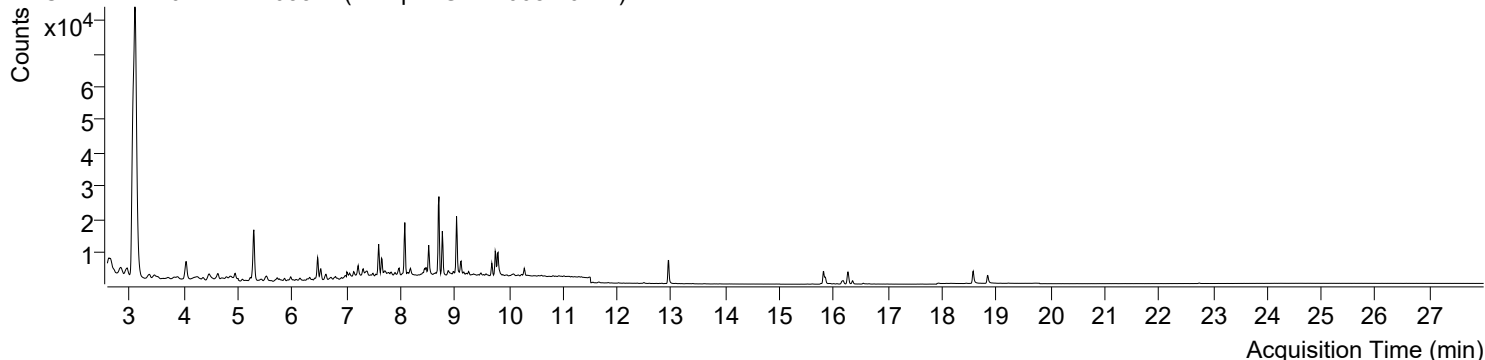


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 8:35:45	Data File	221107-PAHs-033.D
Type	Sample	Name	Sample-Gas-1008-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

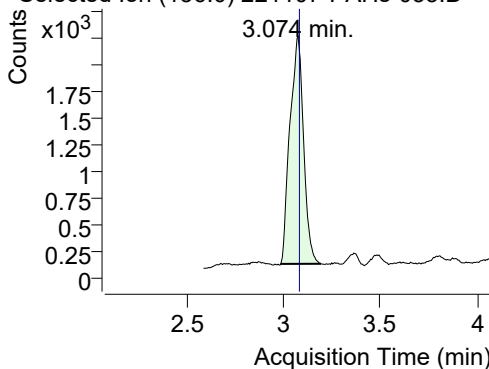
+ TIC SIM 221107-PAHs-033.D (Sample-Gas-1008-10DIL)



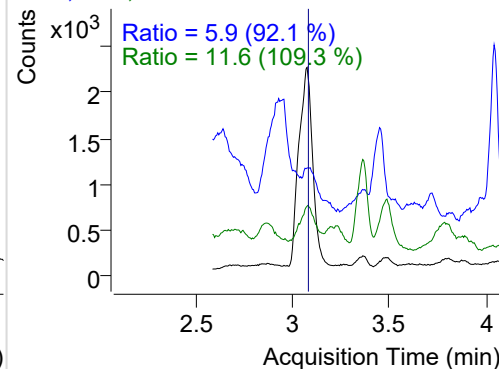
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	10470	2143.90	ND ng/ml	11.6
Naphthalene	3.096	128.0	315613	64371.24	ND ng/ml	13.2
Acenaphthylene	6.138	152.0	816	422.30	ND ng/ml	42.5
IS-D10-Acenaphthene	6.469	164.0	6318	3184.59	ND ng/ml	93.0
Acenaphthene	6.528	154.0	1523	762.26	ND ng/ml	112.8
LSS-D10-Fluorene	7.596	176.0	6619	3921.38	ND ng/ml	95.2
Fluorene	7.648	166.0	4122	2278.86	ND ng/ml	121.6
IS-D10-Phenanthrene	9.748	188.0	10235	5621.52	ND ng/ml	19.0
Phenanthrene	9.801	178.0	8417	4392.99	ND ng/ml	20.8
Anthracene	9.801	178.0	8417	4392.99	ND ng/ml	20.8
Fluoranthene	12.499	202.0	228	125.45	ND ng/ml	100.0
LSS-D10-Pyrene	12.949	212.0	9015	5191.74	ND ng/ml	18.5
Pyrene	12.982	202.0	305	161.64	ND ng/ml	23.9
Benz(a)anthracene	15.849	228.0	147	41.63	ND ng/ml	23.7
IS-D12-Chrysene	15.811	240.0	6011	2782.12	ND ng/ml	19.2
Chrysene	15.849	228.0	147	41.63	ND ng/ml	23.7
Benzo(b)fluoranthene	18.566	252.0	36	13.06	ND ng/ml	
Benzo(k)fluoranthene	18.566	252.0	36	13.06	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	5576	2486.24	ND ng/ml	26.4
Benzo(e)pyrene	18.566	252.0	36	13.06	ND ng/ml	
Benzo(a)pyrene	18.829	252.0	24	12.06	ND ng/ml	
IS-D12-Perylene	18.836	264.0	3682	1599.50	ND ng/ml	26.5
Perylene	18.829	252.0	24	12.06	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.774	276.0	11	3.06	ND ng/ml	
Dibenz(a,h)anthracene	19.881	278.0	7	4.36	ND ng/ml	
Benzo(g,h,i)perylene	21.148	276.0	4	4.16	ND ng/ml	
Coronene	23.408	300.0	17	4.57	ND ng/ml	

IS-D8-Naphthalene

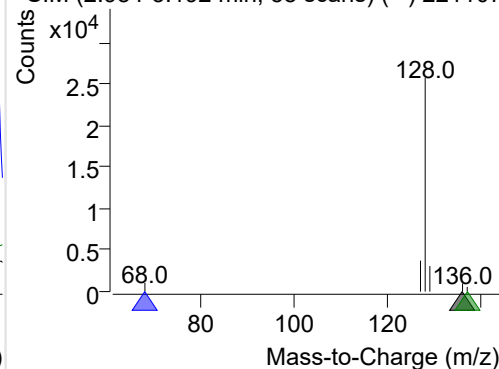
+ Selected Ion (136.0) 221107-PAHs-033.D



136.0, 68.0, 137.0

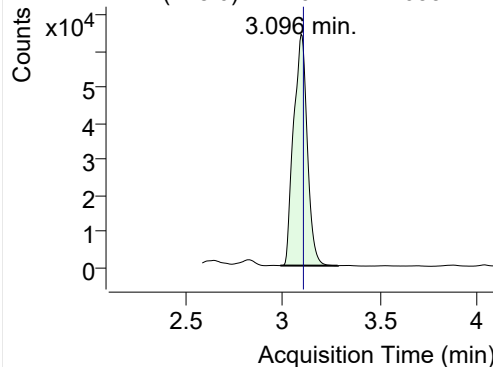


+ SIM (2.984-3.192 min, 38 scans) (**) 221107

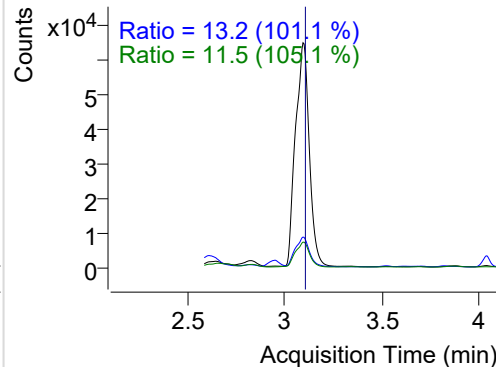


Naphthalene

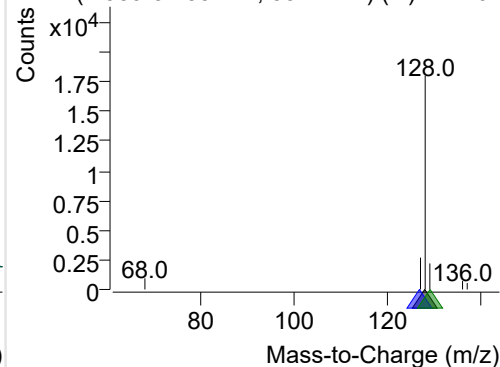
+ Selected Ion (128.0) 221107-PAHs-033.D



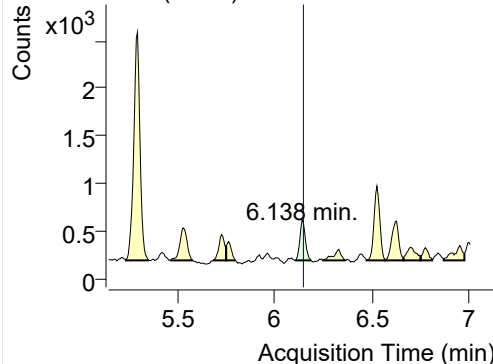
128.0, 127.0, 129.0



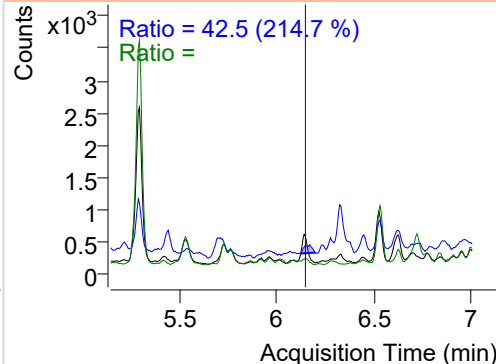
+ SIM (2.989-3.285 min, 55 scans) (**) 221107

**Acenaphthylene**

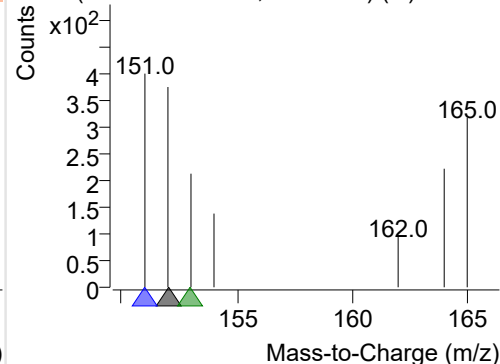
+ Selected Ion (152.0) 221107-PAHs-033.D



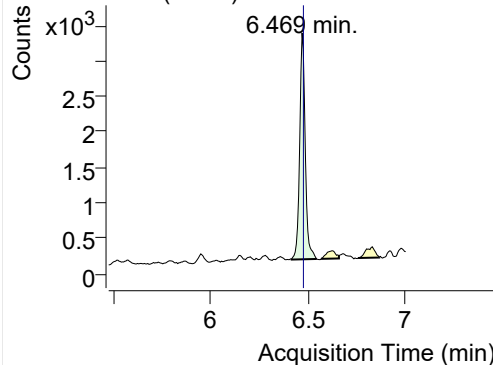
152.0, 151.0, 153.0



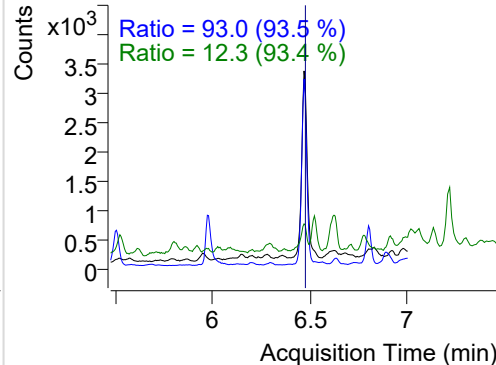
+ SIM (6.103-6.184 min, 13 scans) (**) 221107

**IS-D10-Acenaphthene**

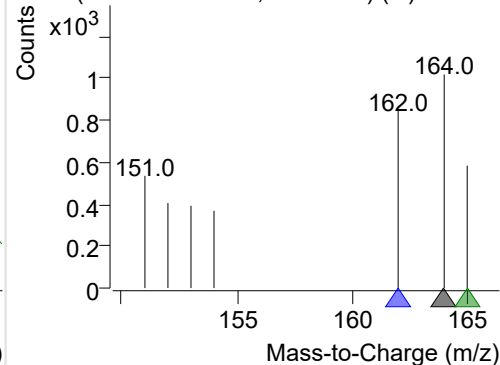
+ Selected Ion (164.0) 221107-PAHs-033.D



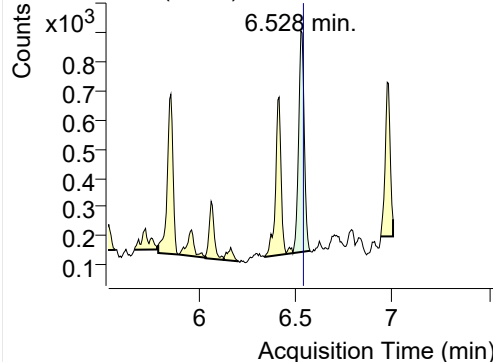
164.0, 162.0, 165.0



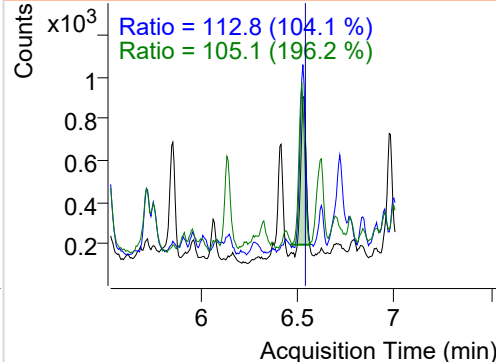
+ SIM (6.416-6.545 min, 22 scans) (**) 221107

**Acenaphthene**

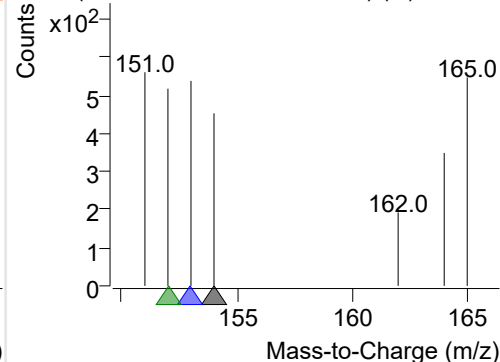
+ Selected Ion (154.0) 221107-PAHs-033.D



154.0, 153.0, 152.0

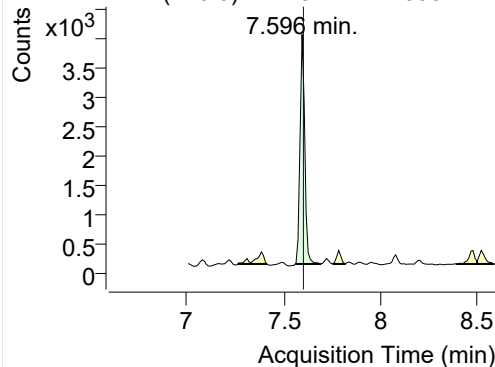


+ SIM (6.487-6.575 min, 14 scans) (**) 221107

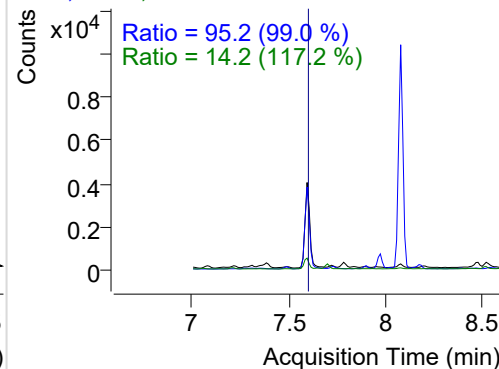


LSS-D10-Fluorene

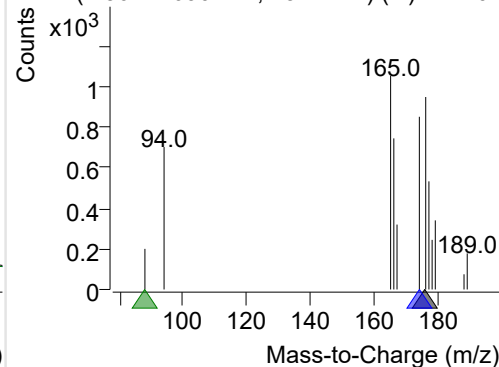
+ Selected Ion (176.0) 221107-PAHs-033.D



176.0, 174.0, 88.0

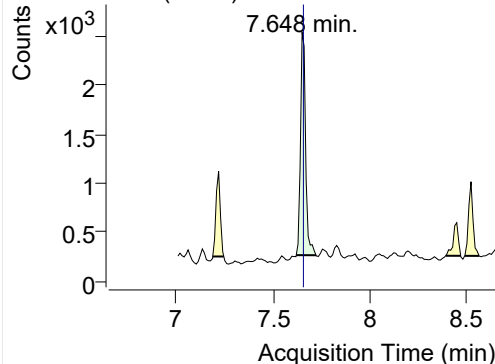


+ SIM (7.561-7.690 min, 13 scans) (**) 221107

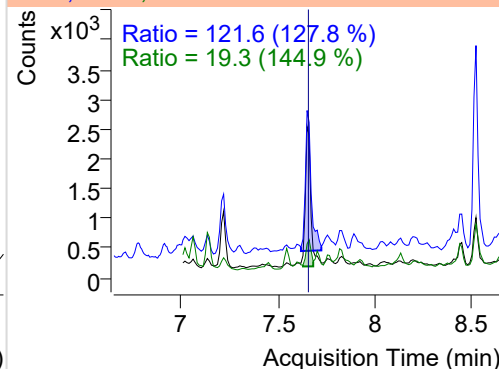


Fluorene

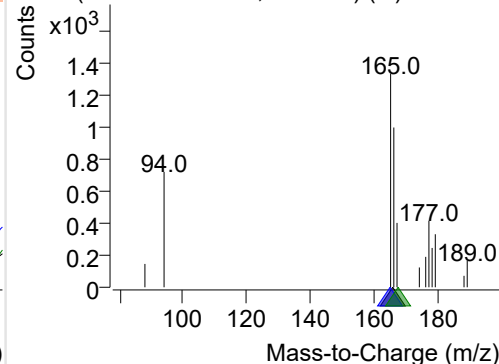
+ Selected Ion (166.0) 221107-PAHs-033.D



166.0, 165.0, 167.0

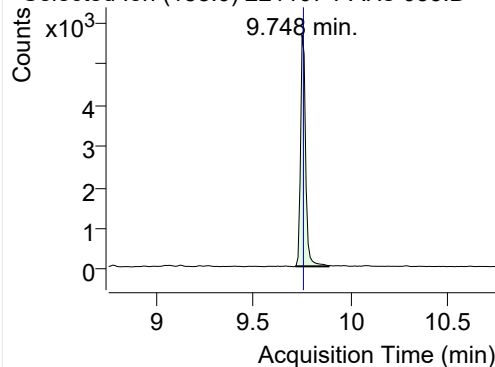


+ SIM (7.618-7.720 min, 9 scans) (**) 221107-I

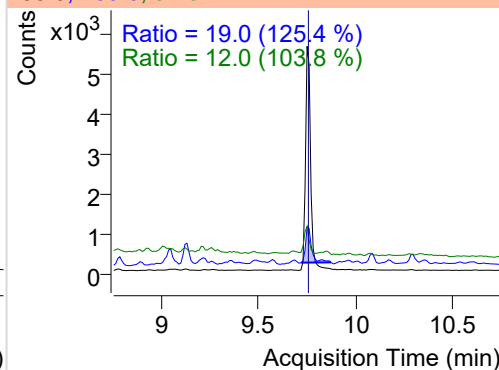


IS-D10-Phenanthrene

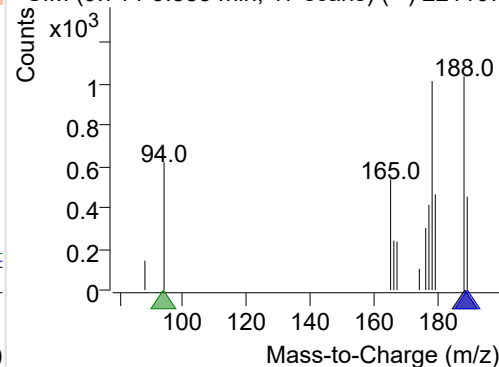
+ Selected Ion (188.0) 221107-PAHs-033.D



188.0, 189.0, 94.0

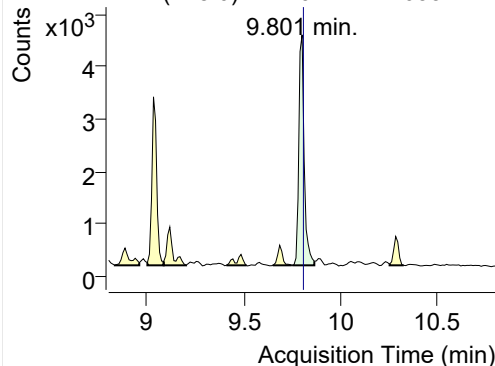


+ SIM (9.714-9.885 min, 17 scans) (**) 221107

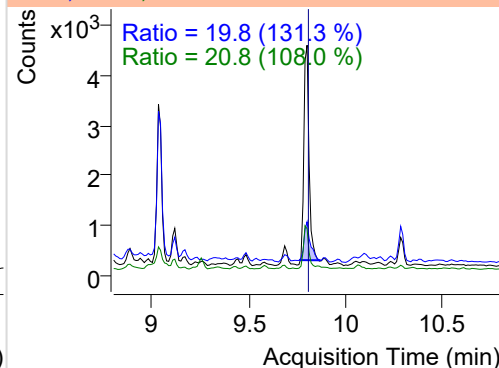


Phenanthrene

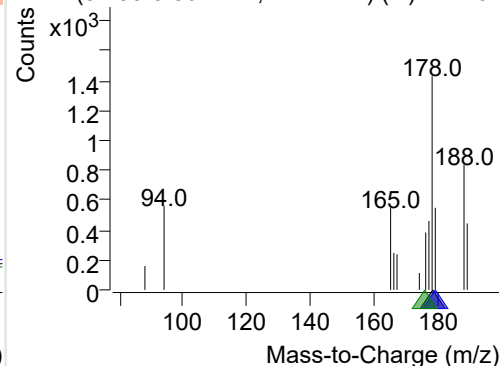
+ Selected Ion (178.0) 221107-PAHs-033.D



178.0, 179.0, 176.0

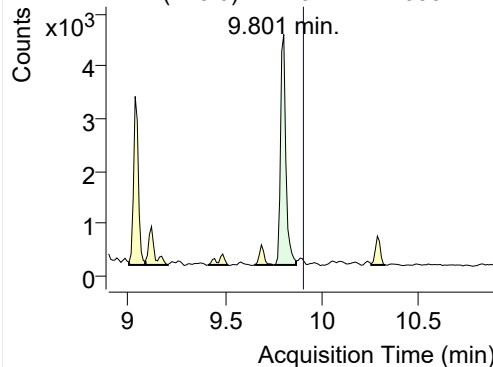


+ SIM (9.750-9.864 min, 11 scans) (**) 221107

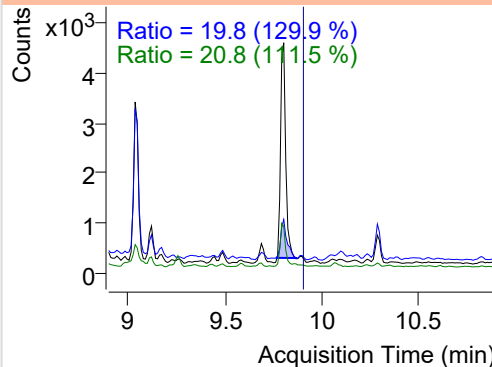


Anthracene

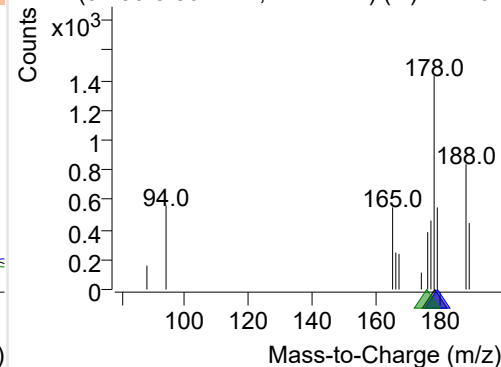
+ Selected Ion (178.0) 221107-PAHs-033.D



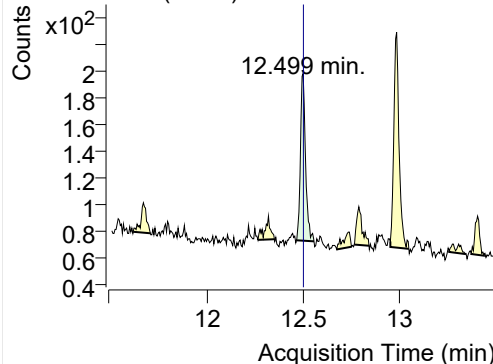
178.0, 179.0, 176.0



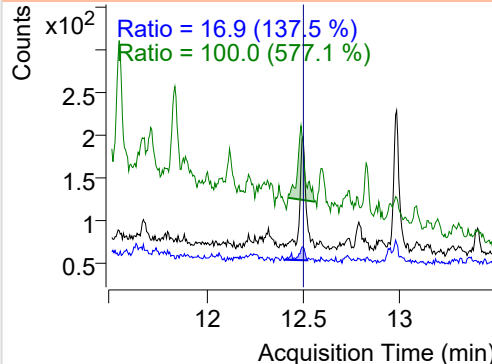
+ SIM (9.750-9.864 min, 11 scans) (**) 221107

**Fluoranthene**

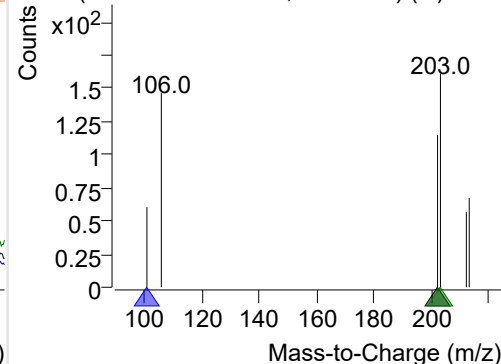
+ Selected Ion (202.0) 221107-PAHs-033.D



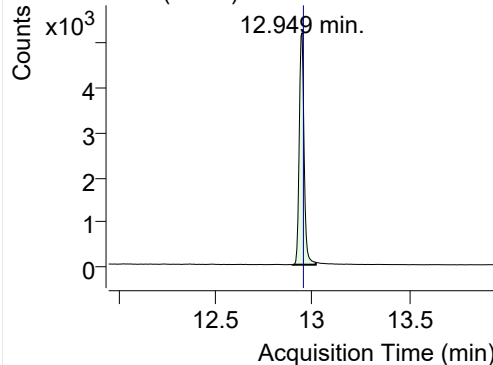
202.0, 101.0, 203.0



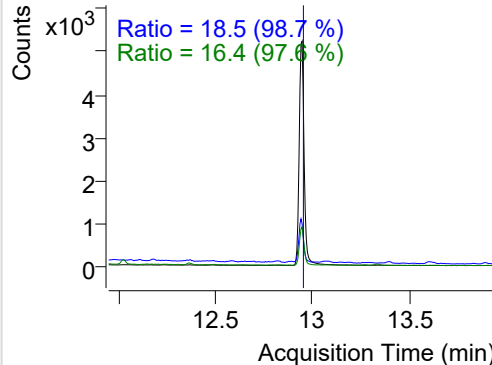
+ SIM (12.465-12.555 min, 17 scans) (**) 2211

**LSS-D10-Pyrene**

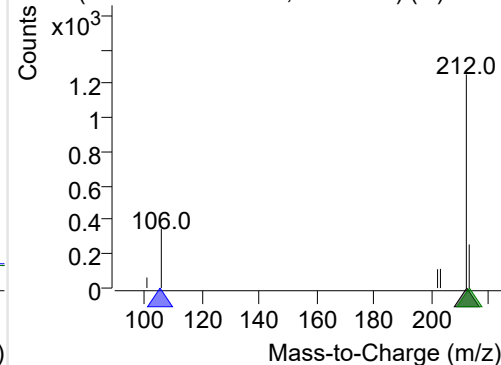
+ Selected Ion (212.0) 221107-PAHs-033.D



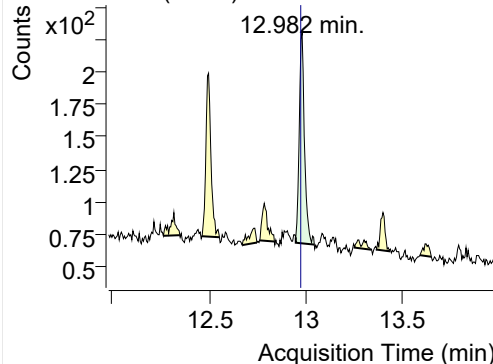
212.0, 106.0, 213.0



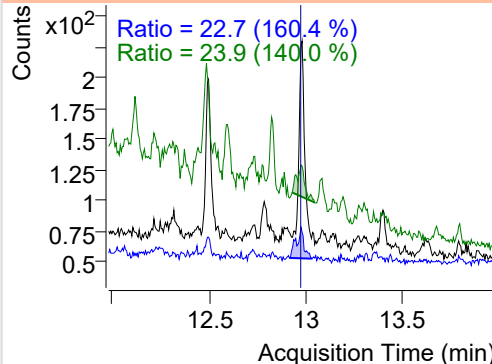
+ SIM (12.900-13.019 min, 23 scans) (**) 2211

**Pyrene**

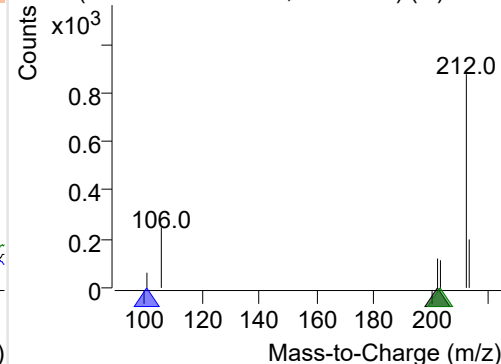
+ Selected Ion (202.0) 221107-PAHs-033.D



202.0, 101.0, 203.0



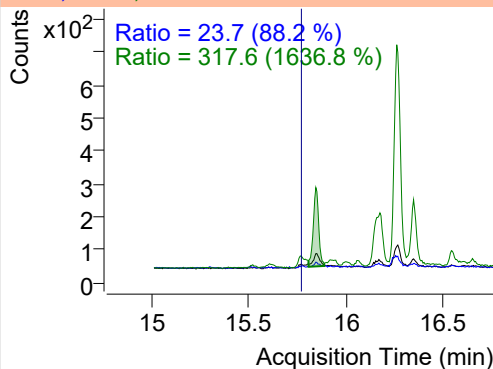
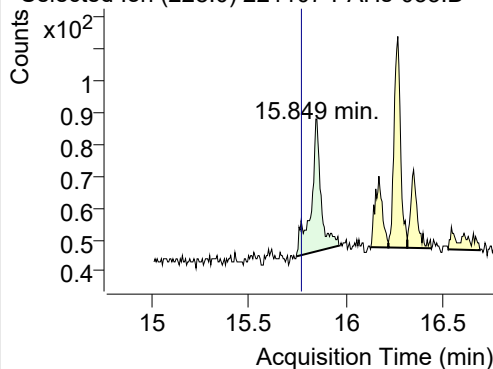
+ SIM (12.949-13.045 min, 18 scans) (**) 2211



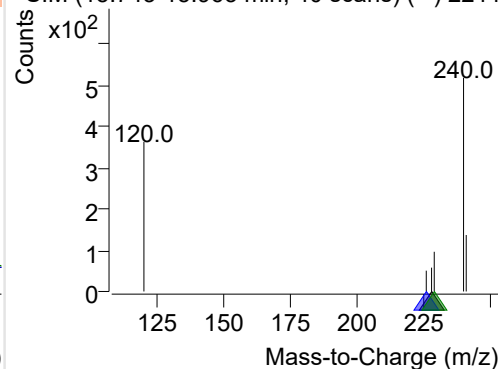
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-033.D

228.0, 226.0, 229.0

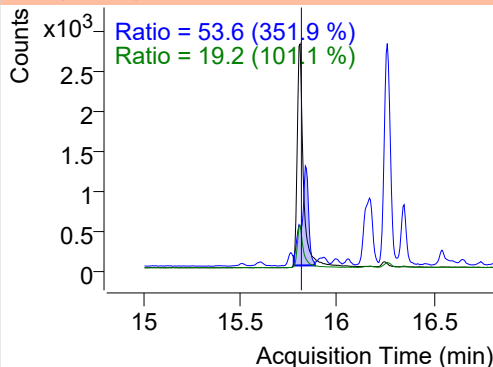
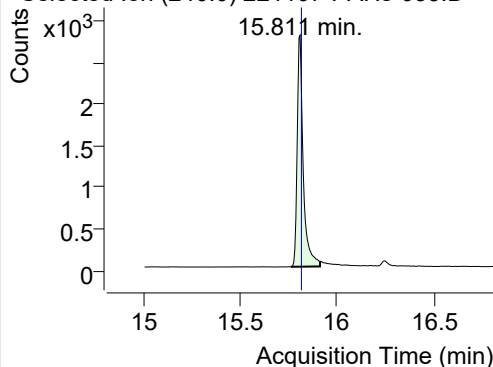


+ SIM (15.743-15.963 min, 40 scans) (**) 2211

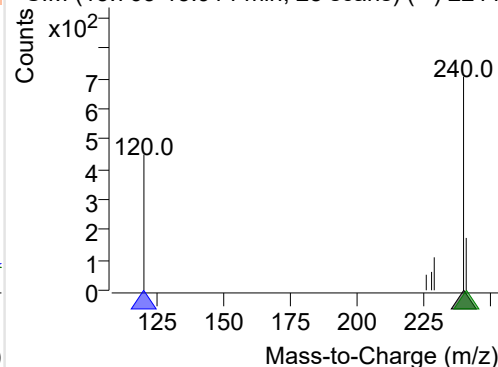
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-033.D

240.0, 120.0, 241.0

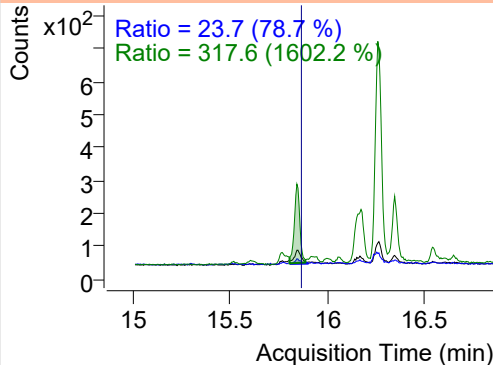
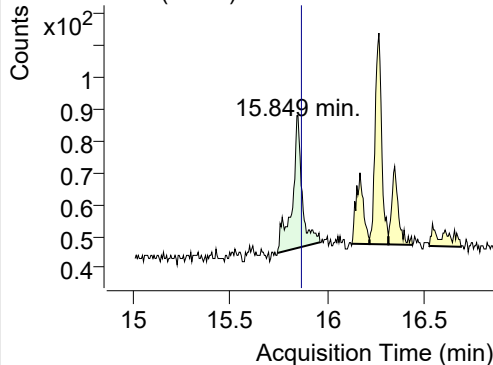


+ SIM (15.763-15.914 min, 28 scans) (**) 2211

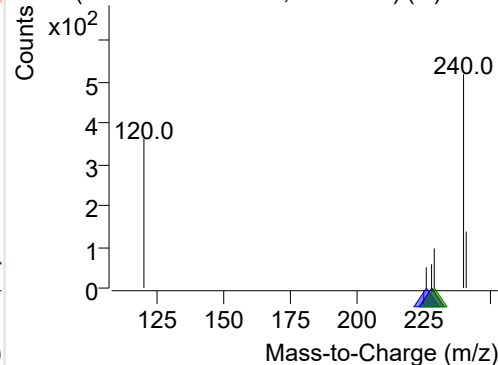
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-033.D

228.0, 226.0, 229.0

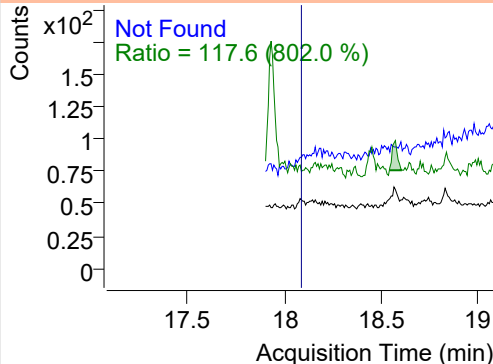
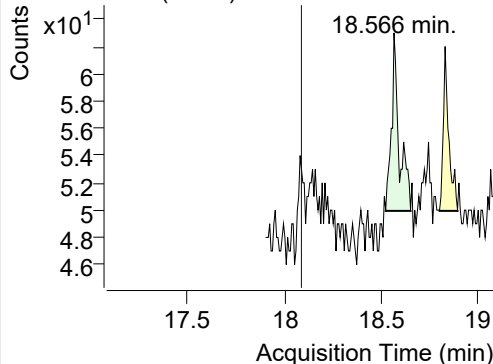


+ SIM (15.743-15.963 min, 40 scans) (**) 2211

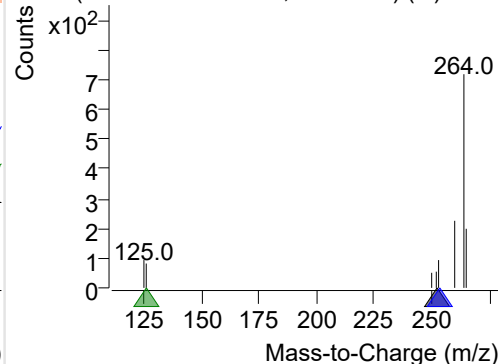
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-033.D

252.0, 253.0, 126.0



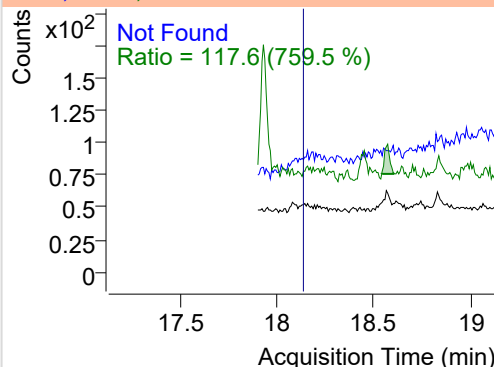
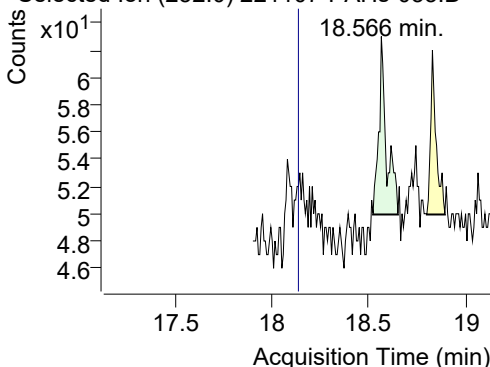
+ SIM (18.523-18.651 min, 19 scans) (**) 2211



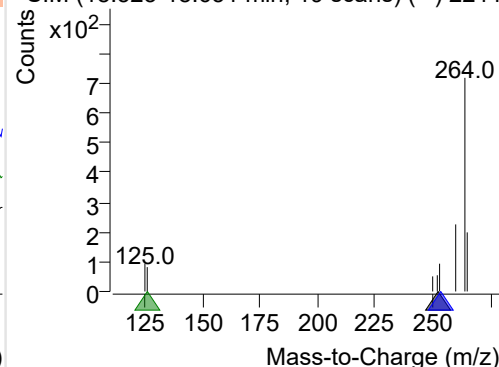
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-033.D

252.0, 253.0, 126.0

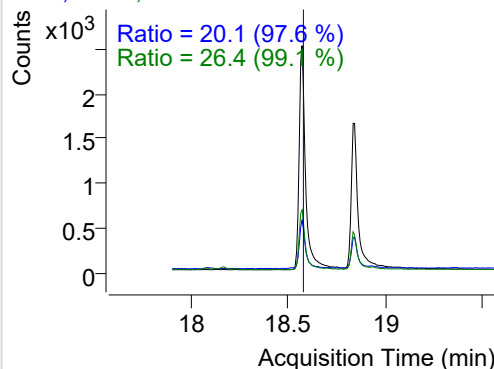
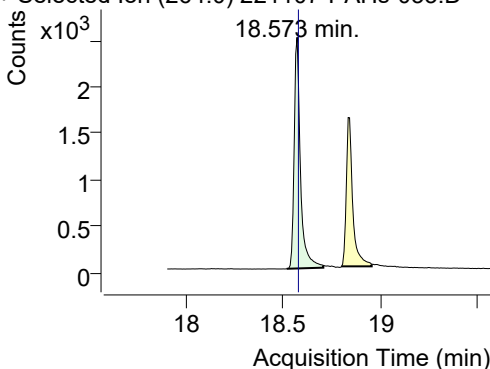


+ SIM (18.523-18.651 min, 19 scans) (**) 2211

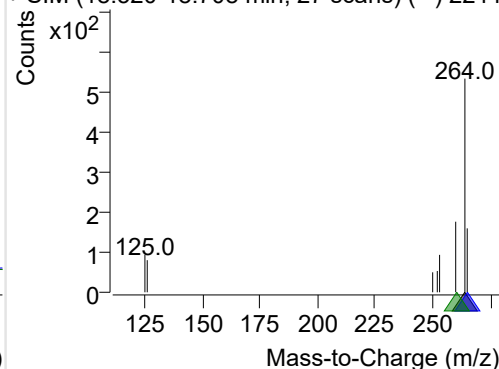
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-033.D

264.0, 265.0, 260.0

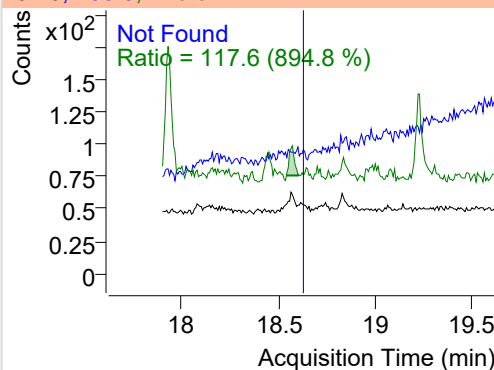
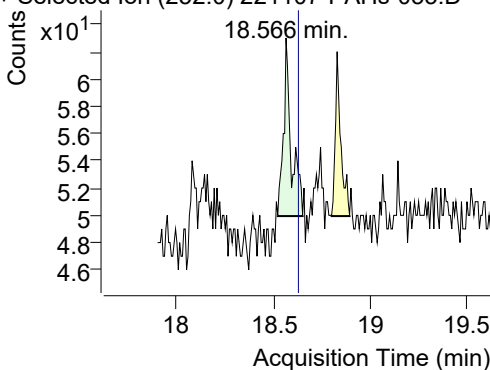


+ SIM (18.520-18.708 min, 27 scans) (**) 2211

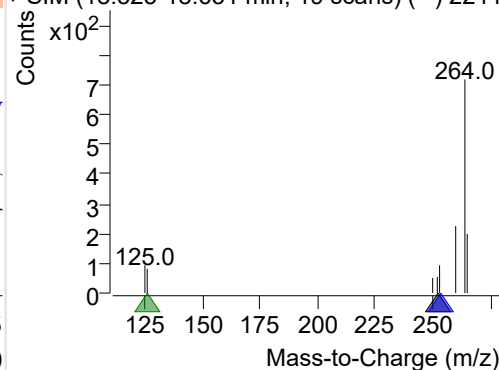
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-033.D

252.0, 253.0, 126.0

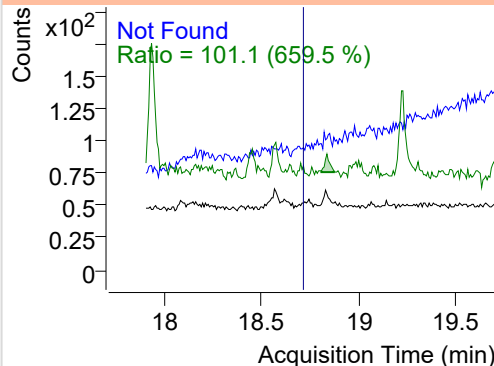
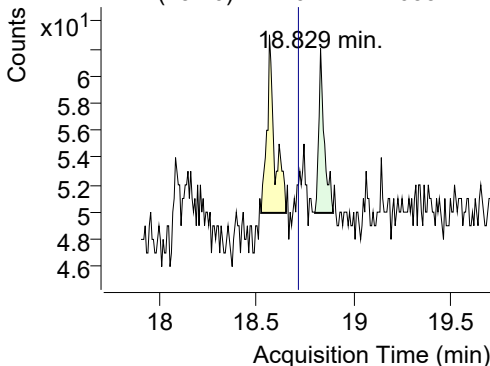


+ SIM (18.523-18.651 min, 19 scans) (**) 2211

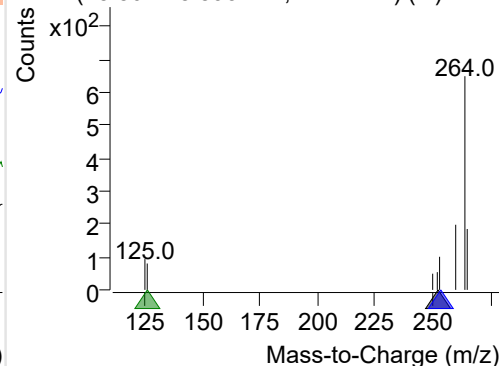
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-033.D

252.0, 253.0, 126.0

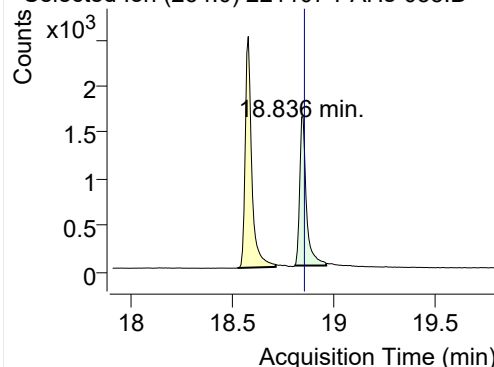


+ SIM (18.801-18.893 min, 14 scans) (**) 2211

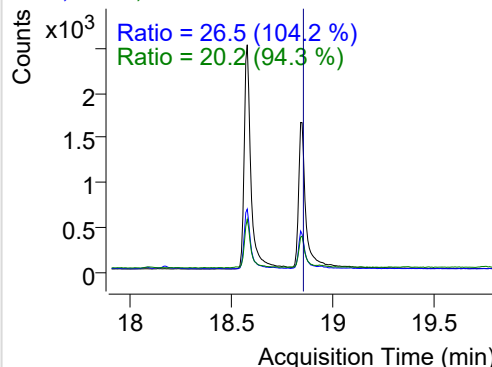


IS-D12-Perylene

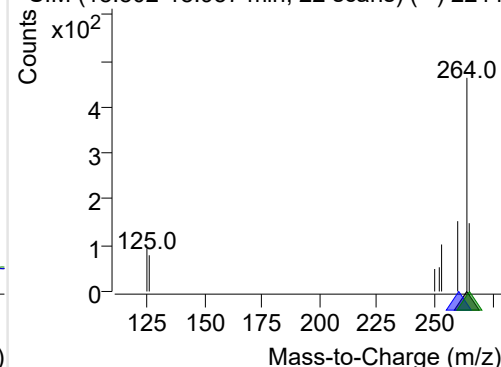
+ Selected Ion (264.0) 221107-PAHs-033.D



264.0, 260.0, 265.0

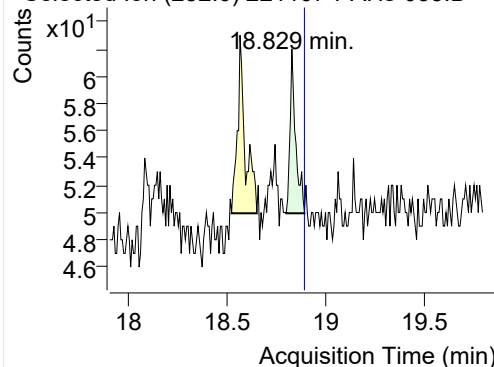


+ SIM (18.802-18.957 min, 22 scans) (**) 2211

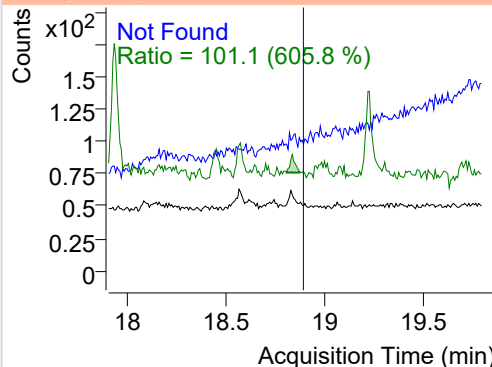


Perylene

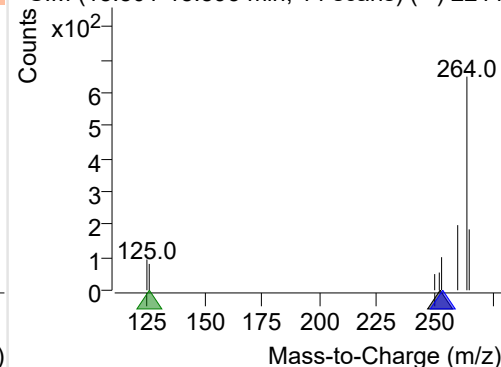
+ Selected Ion (252.0) 221107-PAHs-033.D



252.0, 253.0, 126.0

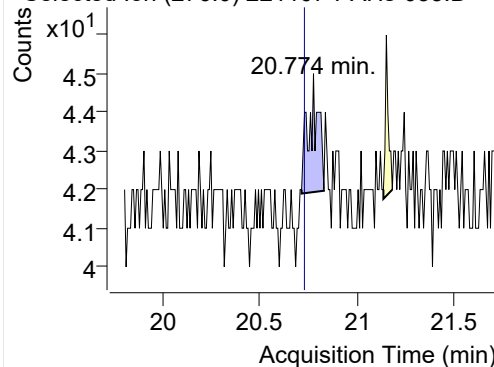


+ SIM (18.801-18.893 min, 14 scans) (**) 2211

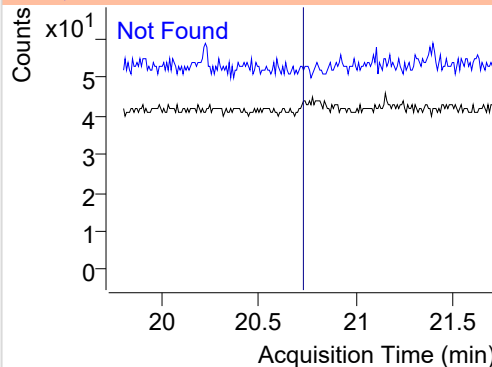


Indeno(1,2,3-c,d)pyrene

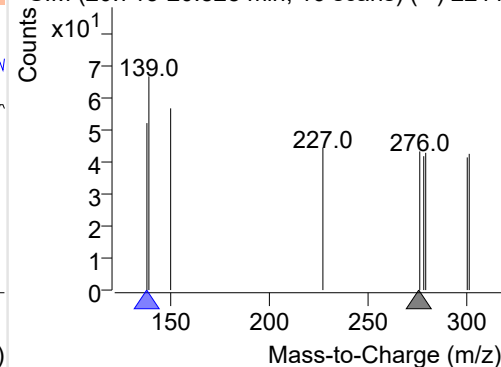
+ Selected Ion (276.0) 221107-PAHs-033.D



276.0, 138.0

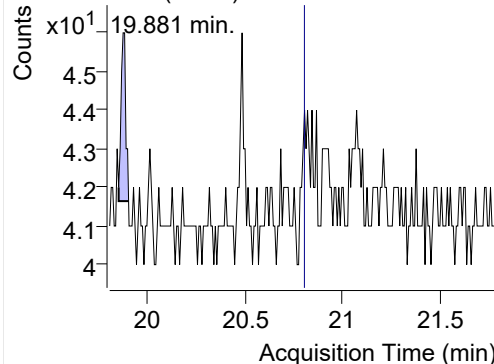


+ SIM (20.713-20.828 min, 16 scans) (**) 2211

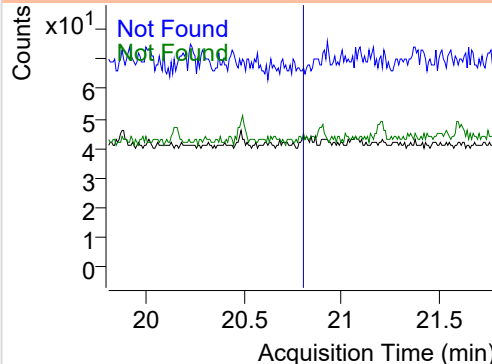


Dibenz(a,h)anthracene

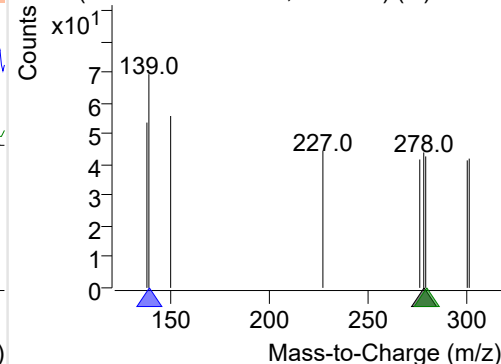
+ Selected Ion (278.0) 221107-PAHs-033.D



278.0, 139.0, 279.0



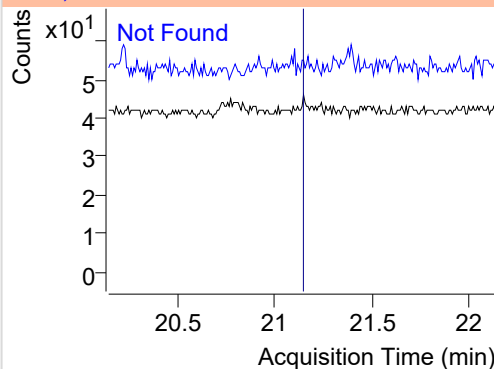
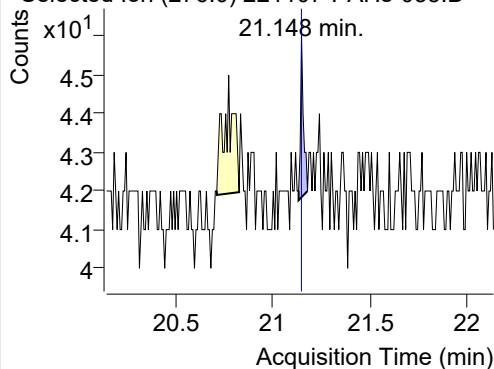
+ SIM (19.850-19.901 min, 7 scans) (**) 22110



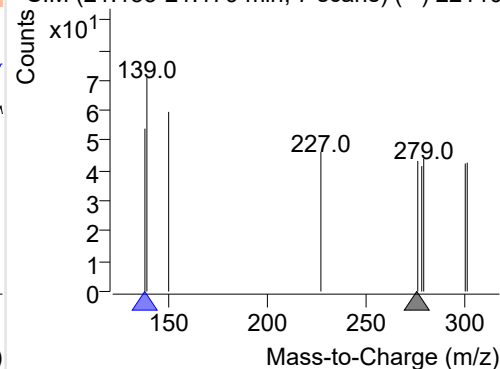
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-033.D

276.0, 138.0

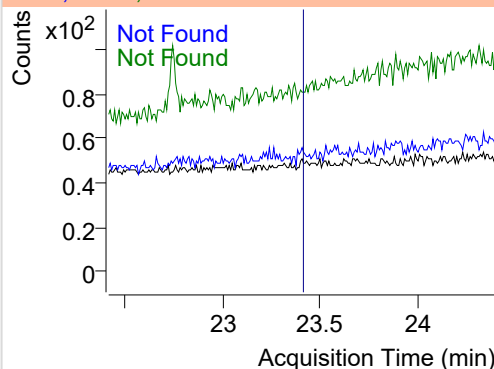
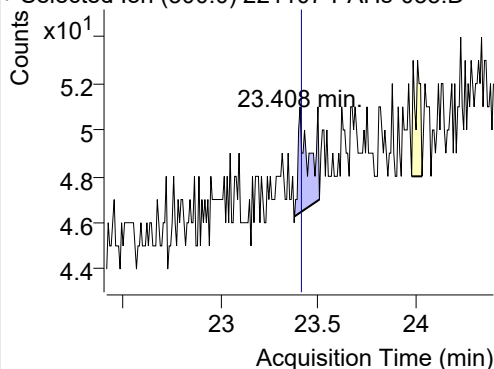


+ SIM (21.133-21.179 min, 7 scans) (**) 22110

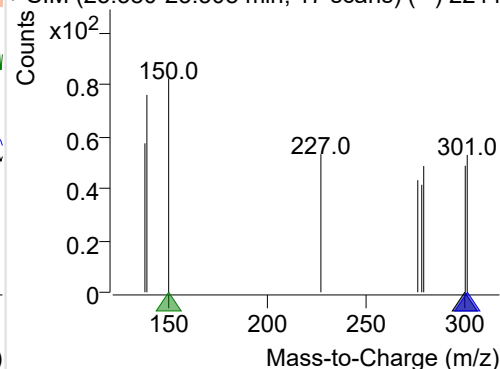
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-033.D

300.0, 301.0, 150.0



+ SIM (23.380-23.508 min, 17 scans) (**) 2211



Quantitative Analysis Sample Based Report

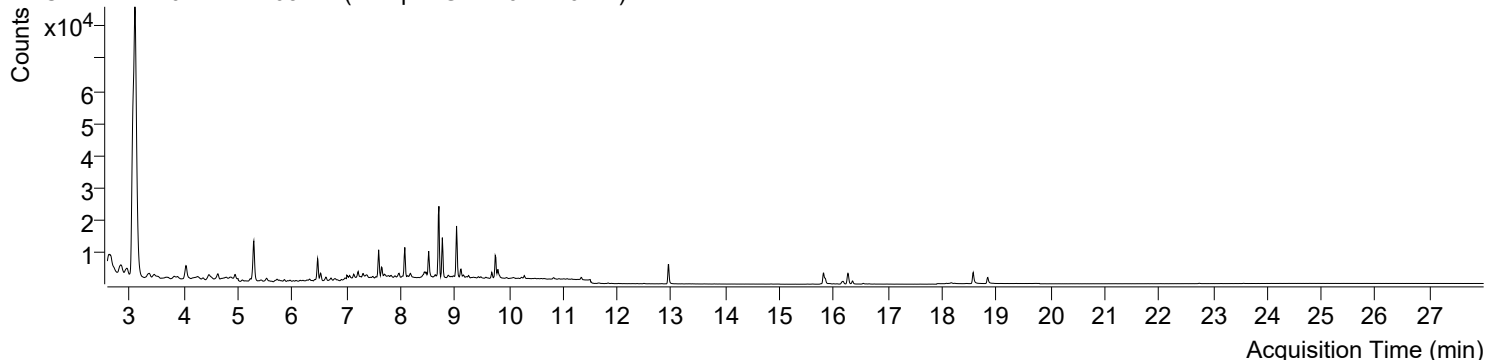


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 9:06:51	Data File	221107-PAHs-034.D
Type	Sample	Name	Sample-Gas-1014-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

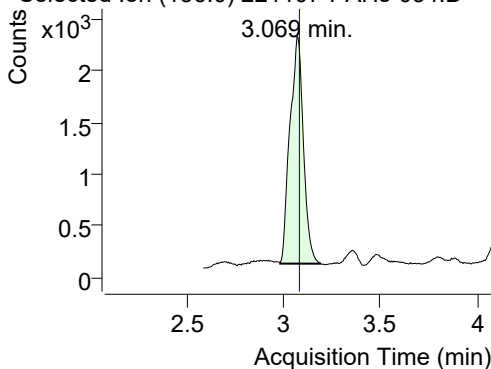
+ TIC SIM 221107-PAHs-034.D (Sample-Gas-1014-10DIL)



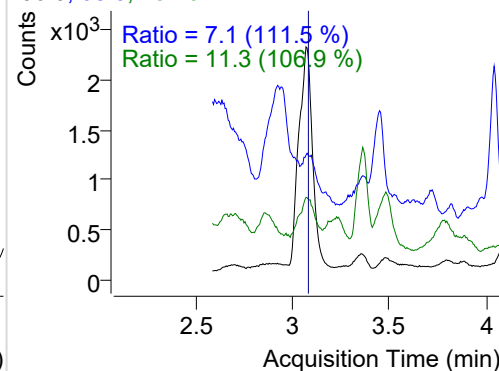
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.069	136.0	10597	2195.81	ND ng/ml	11.3
Naphthalene	3.096	128.0	314717	65750.00	ND ng/ml	12.8
Acenaphthylene	6.137	152.0	277	132.70	ND ng/ml	94.8
IS-D10-Acenaphthene	6.469	164.0	6013	3177.70	ND ng/ml	97.2
Acenaphthene	6.534	154.0	1046	501.92	ND ng/ml	111.9
LSS-D10-Fluorene	7.596	176.0	6048	3625.57	ND ng/ml	95.0
Fluorene	7.648	166.0	2817	1419.60	ND ng/ml	116.3
IS-D10-Phenanthrene	9.748	188.0	10118	5369.27	ND ng/ml	18.0
Phenanthrene	9.801	178.0	3038	1556.89	ND ng/ml	22.7
Anthracene	9.801	178.0	3038	1556.89	ND ng/ml	22.7
Fluoranthene	12.499	202.0	115	63.95	ND ng/ml	56.3
LSS-D10-Pyrene	12.949	212.0	7579	4421.01	ND ng/ml	18.2
Pyrene	12.981	202.0	144	79.17	ND ng/ml	5.4
Benz(a)anthracene	15.844	228.0	119	34.61	ND ng/ml	32.1
IS-D12-Chrysene	15.811	240.0	5692	2508.73	ND ng/ml	19.3
Chrysene	15.844	228.0	119	34.61	ND ng/ml	32.1
Benzo(b)fluoranthene	18.089	252.0	27	4.60	ND ng/ml	676.1
Benzo(k)fluoranthene	18.089	252.0	27	4.60	ND ng/ml	676.1
SS-D12-Benzo(e)pyrene	18.573	264.0	5102	2254.06	ND ng/ml	26.8
Benzo(e)pyrene	18.566	252.0	27	10.60	ND ng/ml	
Benzo(a)pyrene	18.836	252.0	19	7.60	ND ng/ml	
IS-D12-Perylene	18.843	264.0	2957	1284.84	ND ng/ml	23.3
Perylene	18.836	252.0	19	7.60	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.728	276.0	33	4.00	ND ng/ml	
Dibenz(a,h)anthracene	20.484	278.0	5	4.55	ND ng/ml	199.1
Benzo(g,h,i)perylene	20.728	276.0	33	4.00	ND ng/ml	
Coronene	23.706	300.0	26	5.00	ND ng/ml	152.7

IS-D8-Naphthalene

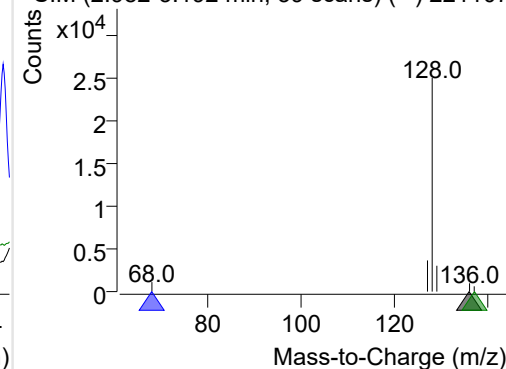
+ Selected Ion (136.0) 221107-PAHs-034.D



136.0, 68.0, 137.0

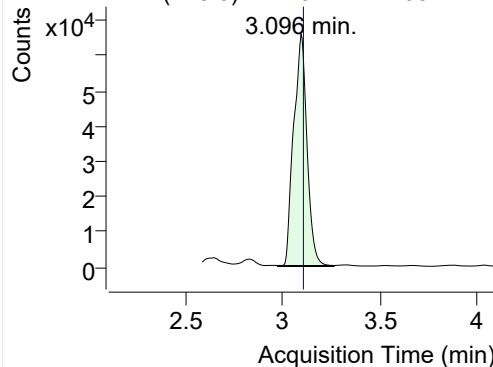


+ SIM (2.982-3.192 min, 39 scans) (**) 221107

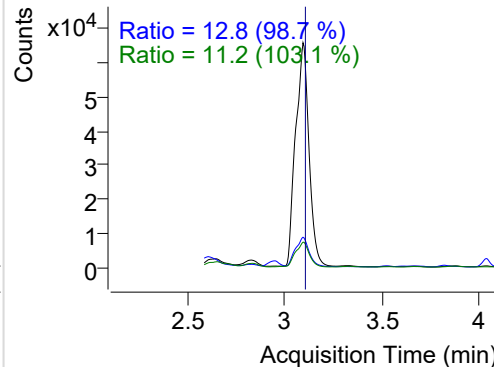


Naphthalene

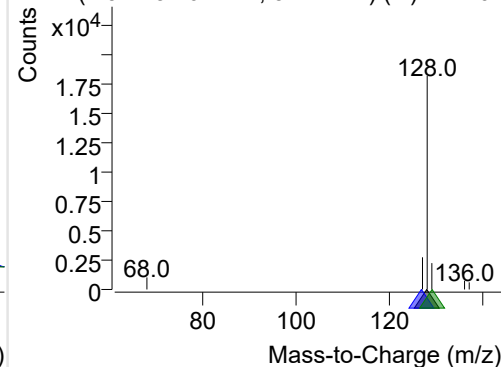
+ Selected Ion (128.0) 221107-PAHs-034.D



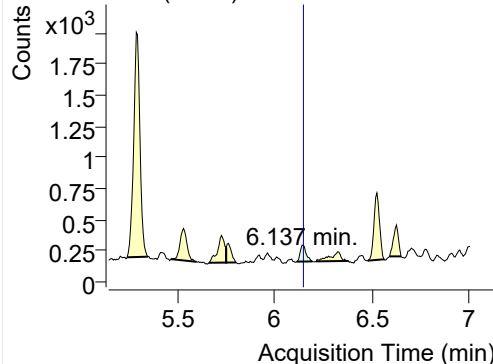
128.0, 127.0, 129.0



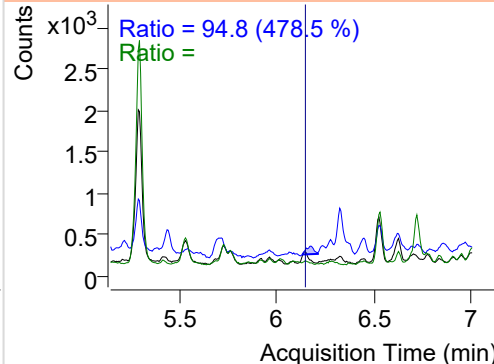
+ SIM (2.977-3.264 min, 54 scans) (**) 221107

**Acenaphthylene**

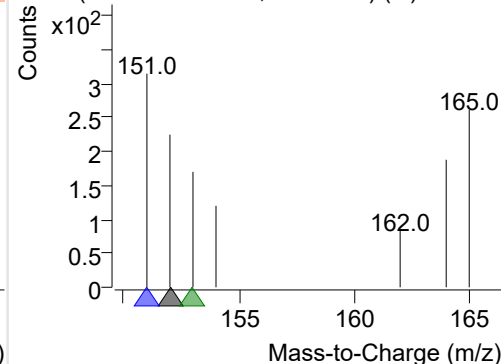
+ Selected Ion (152.0) 221107-PAHs-034.D



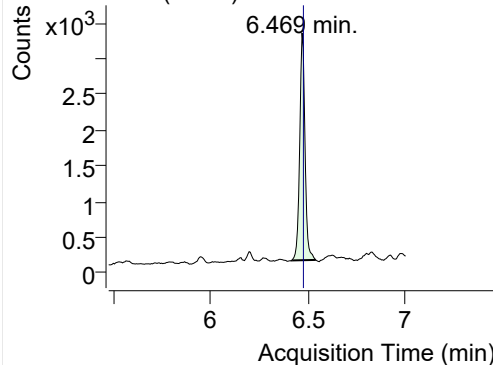
152.0, 151.0, 153.0



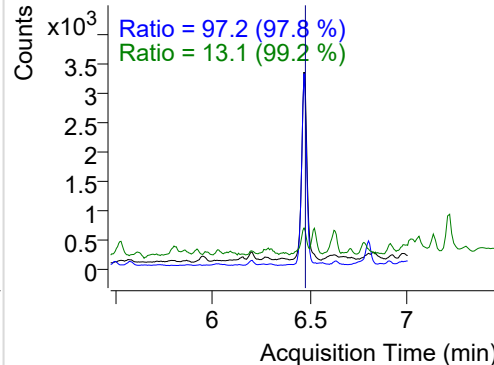
+ SIM (6.110-6.190 min, 13 scans) (**) 221107

**IS-D10-Acenaphthene**

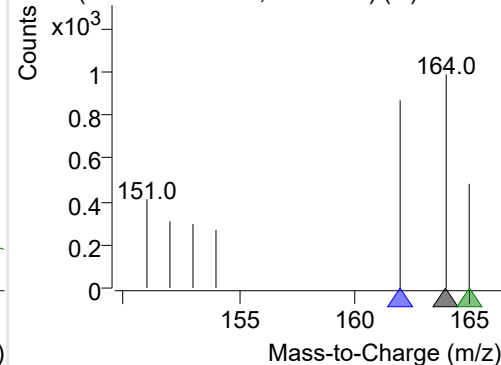
+ Selected Ion (164.0) 221107-PAHs-034.D



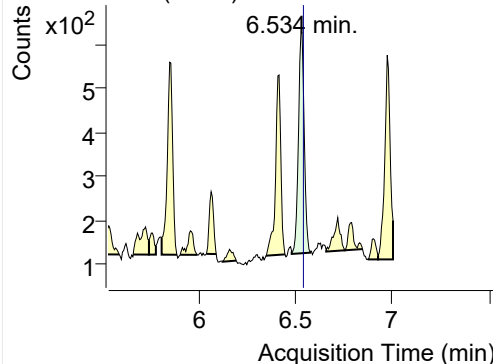
164.0, 162.0, 165.0



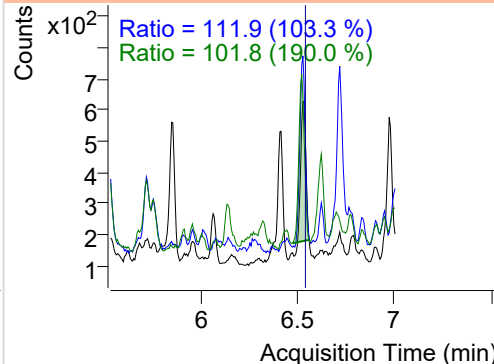
+ SIM (6.416-6.539 min, 21 scans) (**) 221107

**Acenaphthene**

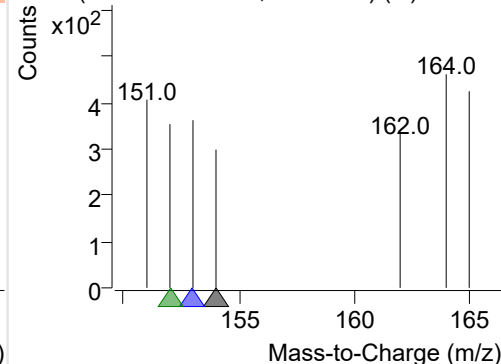
+ Selected Ion (154.0) 221107-PAHs-034.D



154.0, 153.0, 152.0

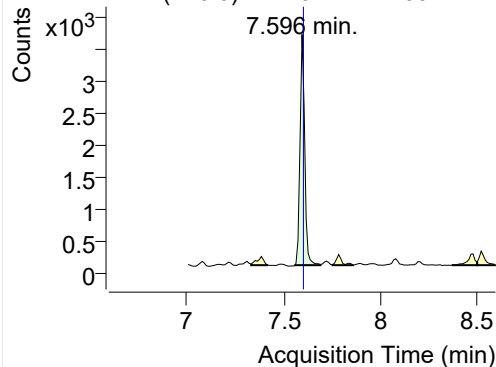


+ SIM (6.481-6.575 min, 17 scans) (**) 221107

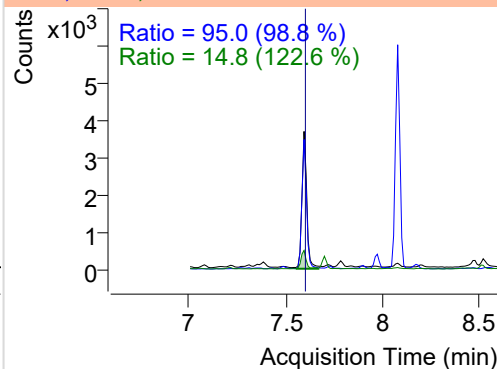


LSS-D10-Fluorene

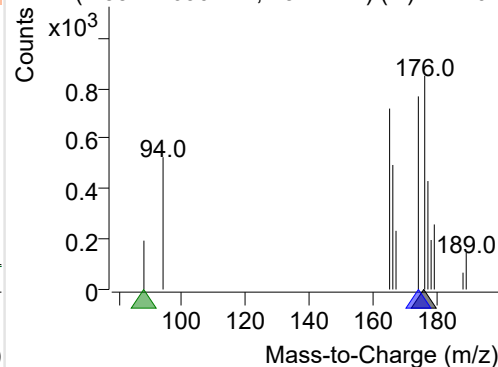
+ Selected Ion (176.0) 221107-PAHs-034.D



176.0, 174.0, 88.0

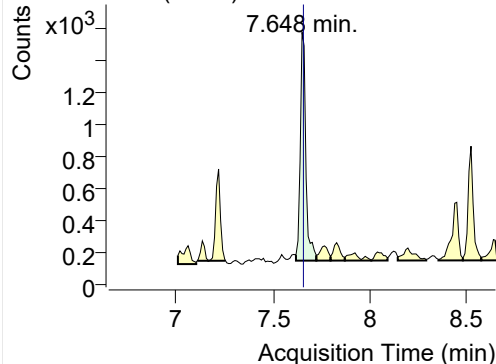


+ SIM (7.557-7.690 min, 13 scans) (**) 221107

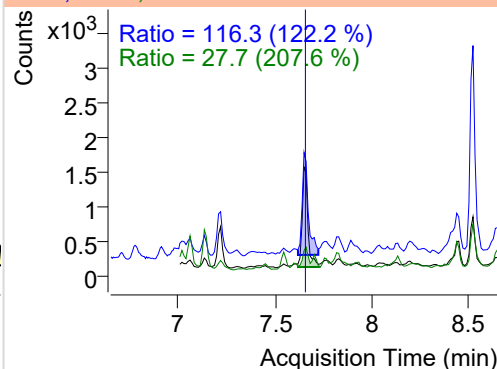


Fluorene

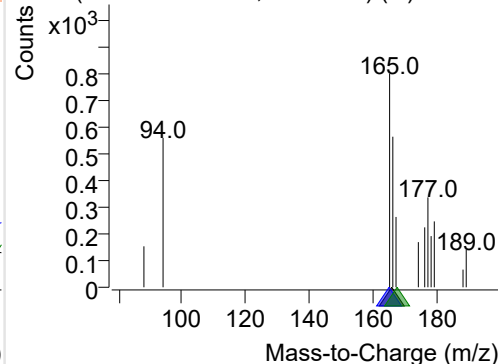
+ Selected Ion (166.0) 221107-PAHs-034.D



166.0, 165.0, 167.0

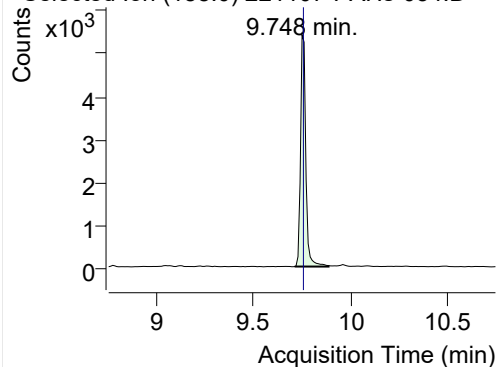


+ SIM (7.617-7.722 min, 11 scans) (**) 221107

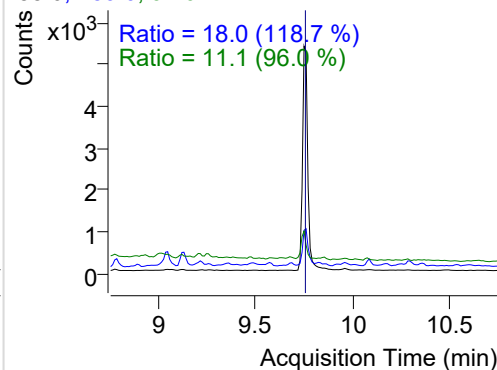


IS-D10-Phenanthrene

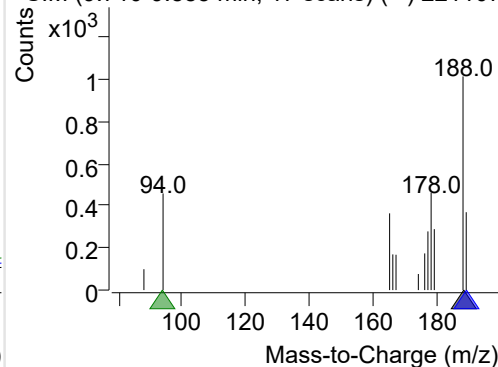
+ Selected Ion (188.0) 221107-PAHs-034.D



188.0, 189.0, 94.0

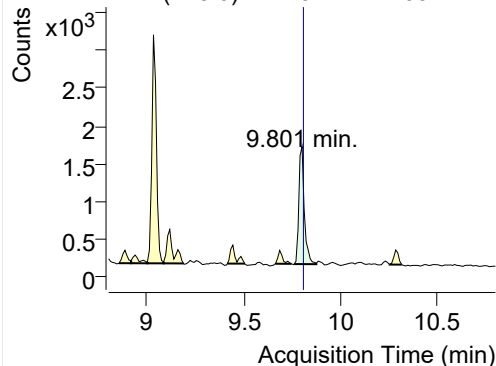


+ SIM (9.710-9.885 min, 17 scans) (**) 221107

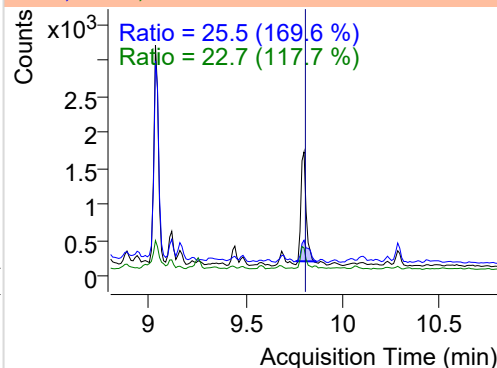


Phenanthrene

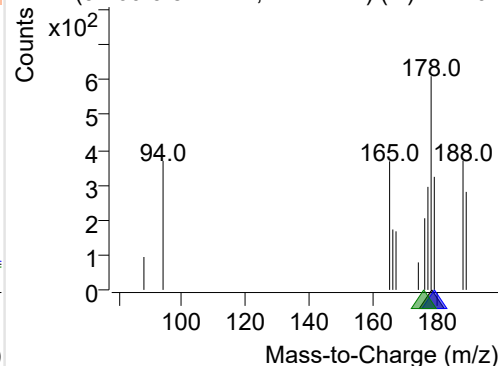
+ Selected Ion (178.0) 221107-PAHs-034.D



178.0, 179.0, 176.0

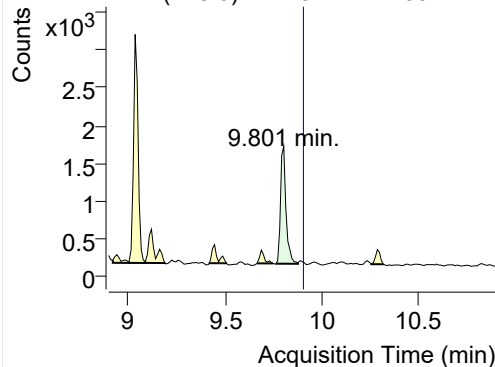


+ SIM (9.760-9.874 min, 11 scans) (**) 221107

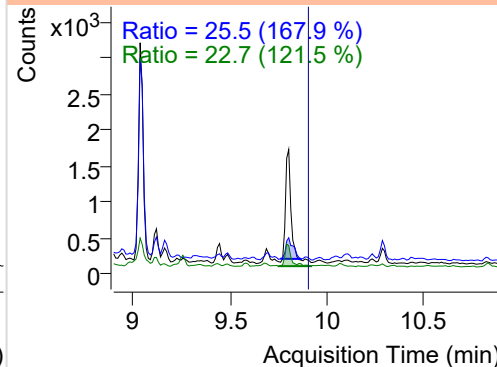


Anthracene

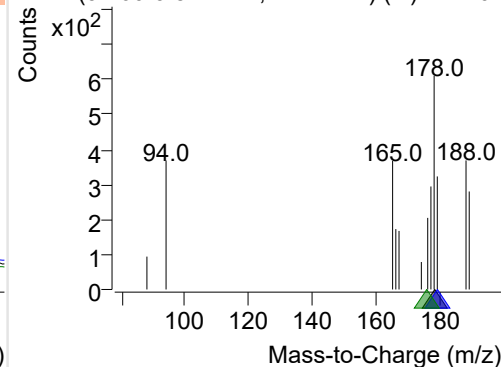
+ Selected Ion (178.0) 221107-PAHs-034.D



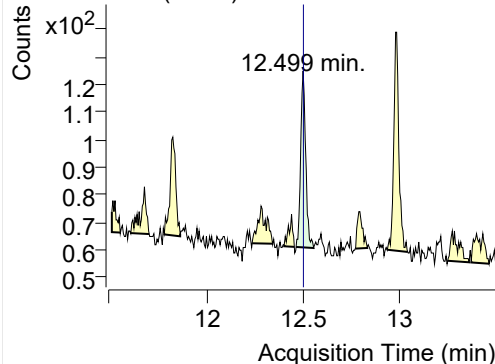
178.0, 179.0, 176.0



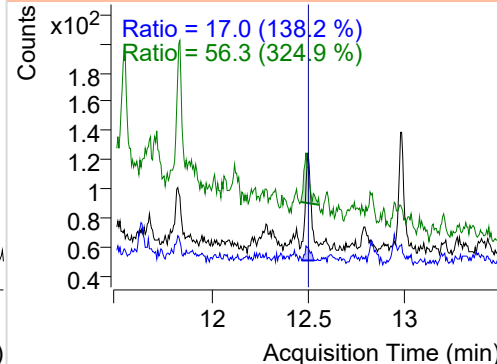
+ SIM (9.760-9.874 min, 11 scans) (**) 221107

**Fluoranthene**

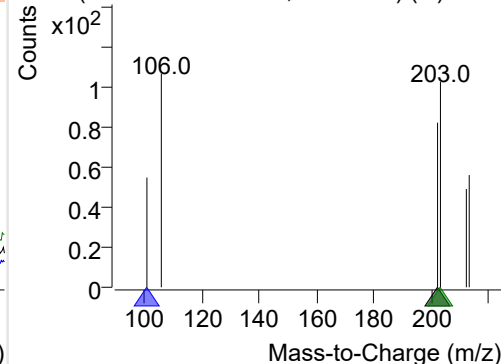
+ Selected Ion (202.0) 221107-PAHs-034.D



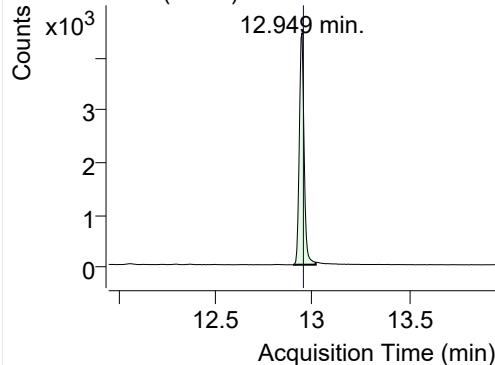
202.0, 101.0, 203.0



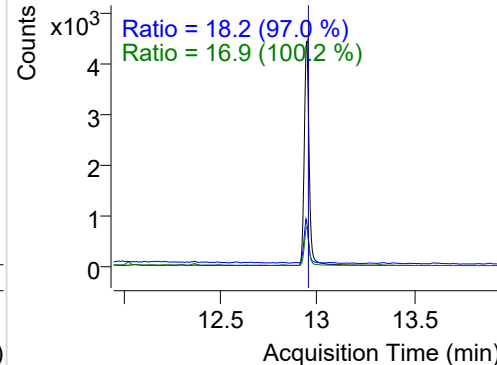
+ SIM (12.463-12.553 min, 17 scans) (**) 2211

**LSS-D10-Pyrene**

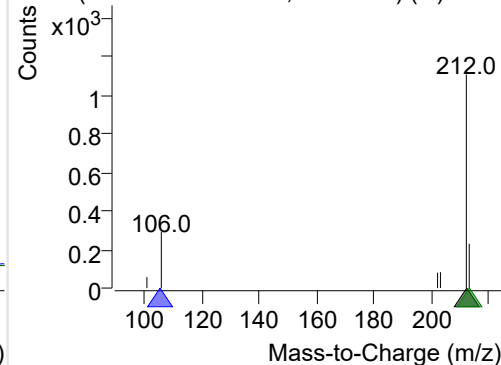
+ Selected Ion (212.0) 221107-PAHs-034.D



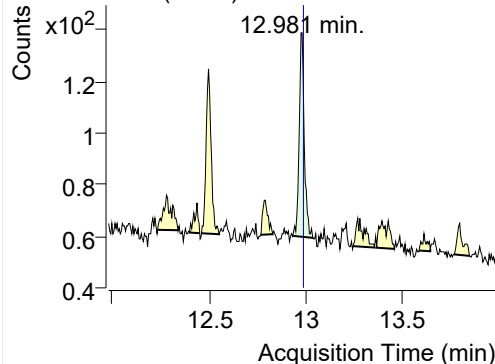
212.0, 106.0, 213.0



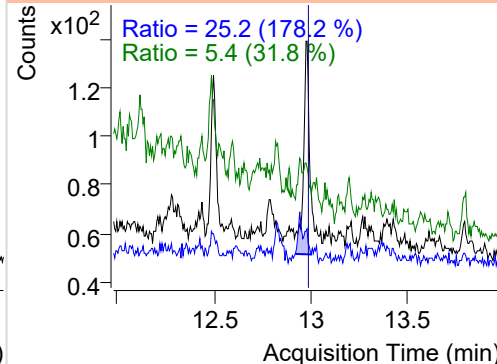
+ SIM (12.902-13.019 min, 22 scans) (**) 2211

**Pyrene**

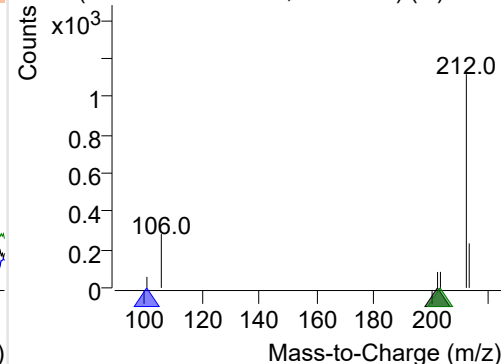
+ Selected Ion (202.0) 221107-PAHs-034.D



202.0, 101.0, 203.0



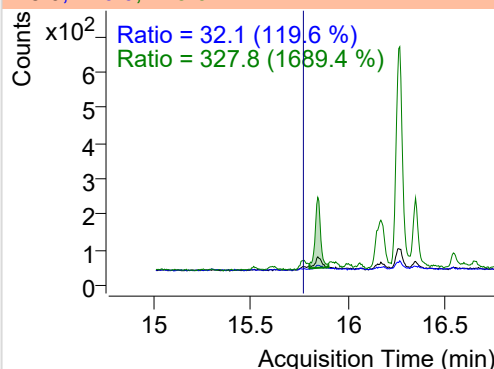
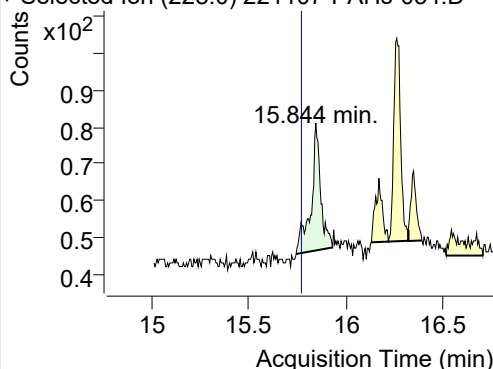
+ SIM (12.933-13.039 min, 19 scans) (**) 2211



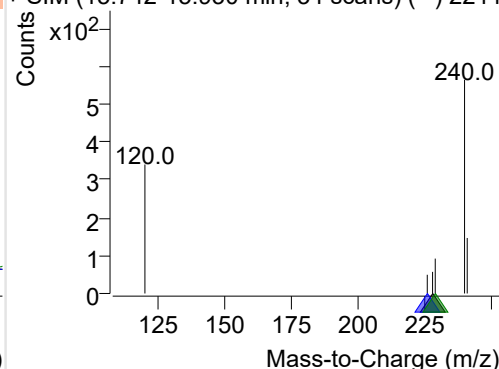
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-034.D

228.0, 226.0, 229.0

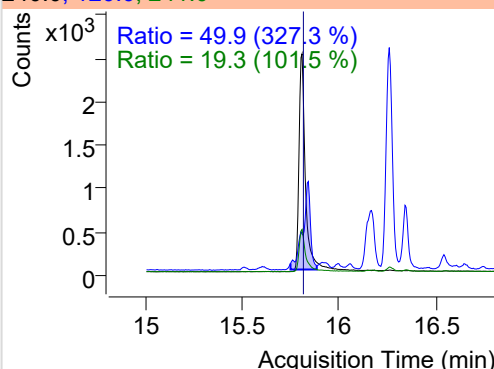
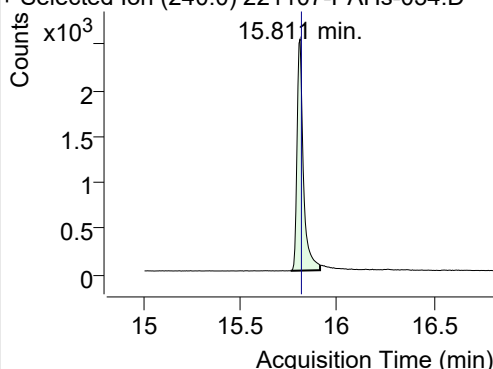


+ SIM (15.742-15.930 min, 34 scans) (**) 2211

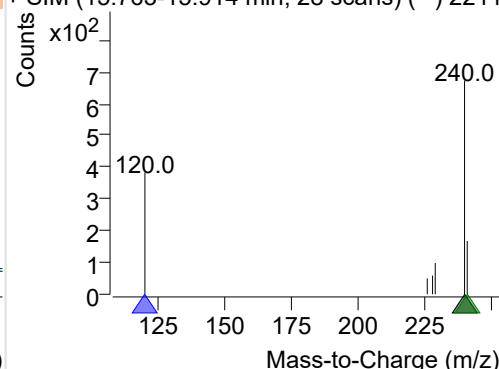
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-034.D

240.0, 120.0, 241.0

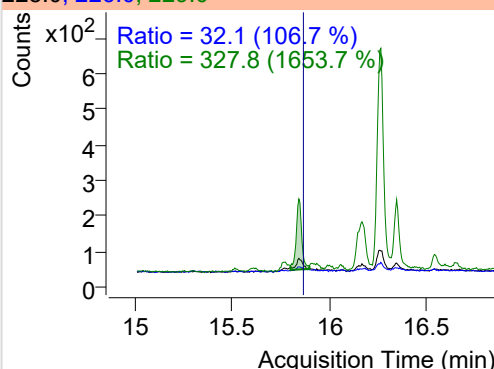
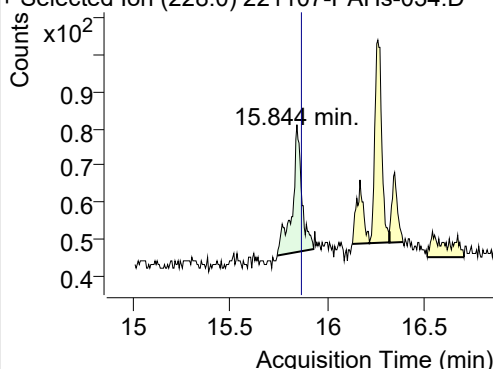


+ SIM (15.763-15.914 min, 28 scans) (**) 2211

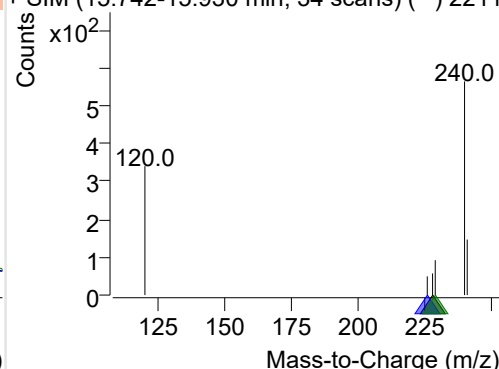
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-034.D

228.0, 226.0, 229.0

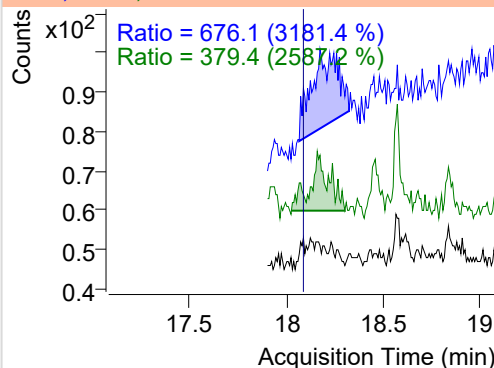
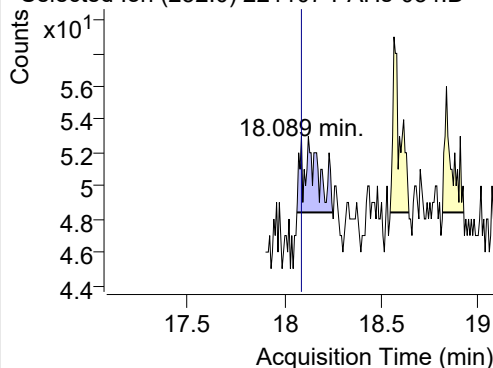


+ SIM (15.742-15.930 min, 34 scans) (**) 2211

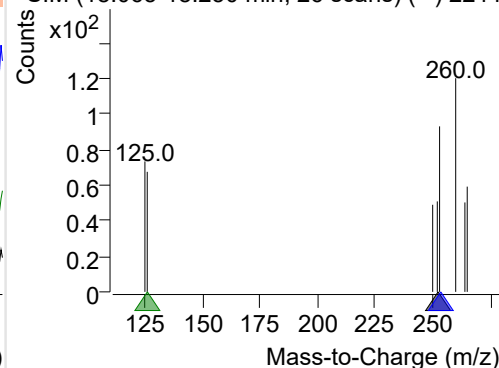
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-034.D

252.0, 253.0, 126.0



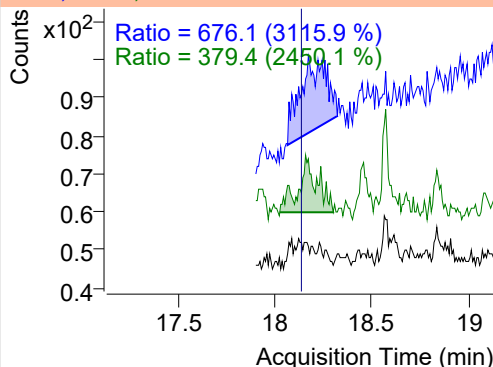
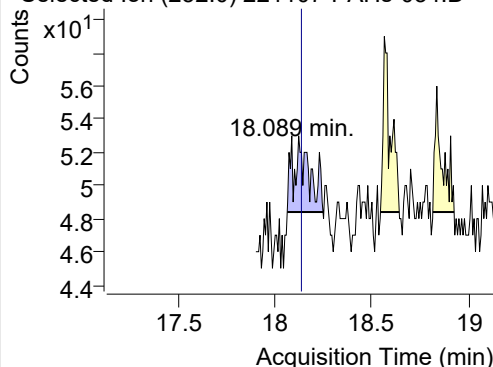
+ SIM (18.065-18.250 min, 26 scans) (**) 2211



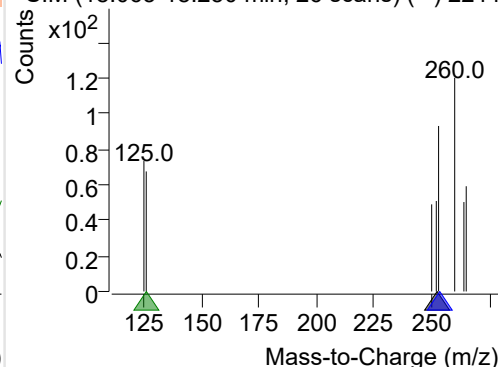
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-034.D

252.0, 253.0, 126.0

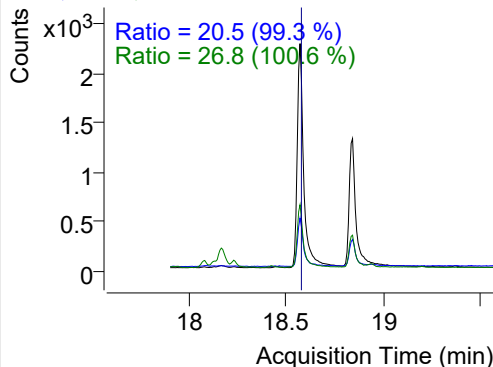
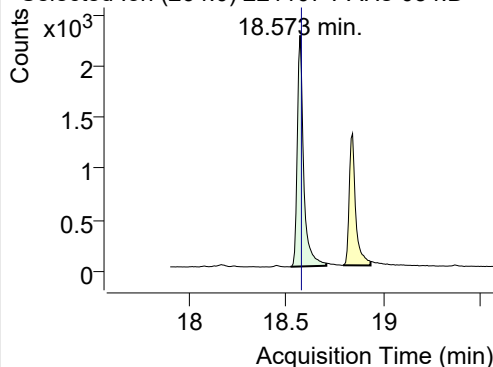


+ SIM (18.065-18.250 min, 26 scans) (**) 2211

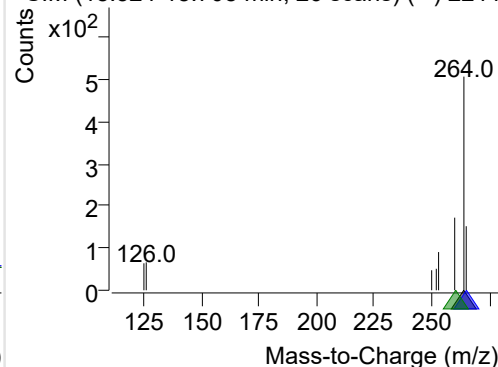
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-034.D

264.0, 265.0, 260.0

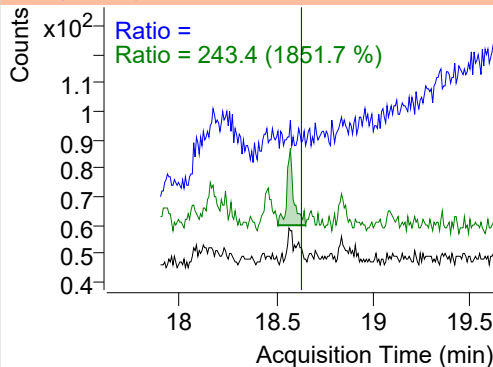
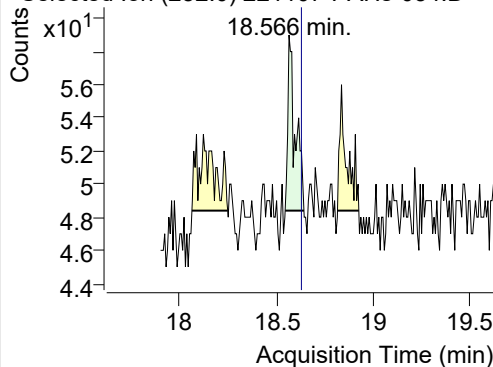


+ SIM (18.524-18.708 min, 26 scans) (**) 2211

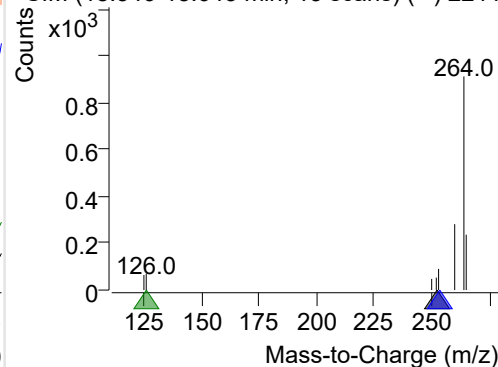
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-034.D

252.0, 253.0, 126.0

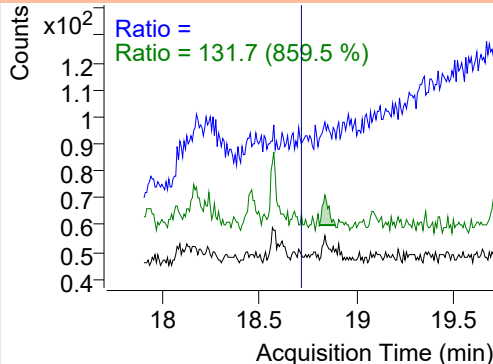
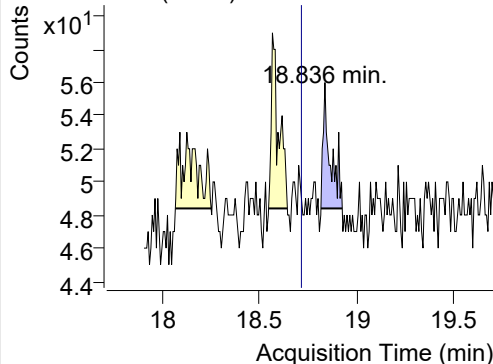


+ SIM (18.546-18.643 min, 13 scans) (**) 2211

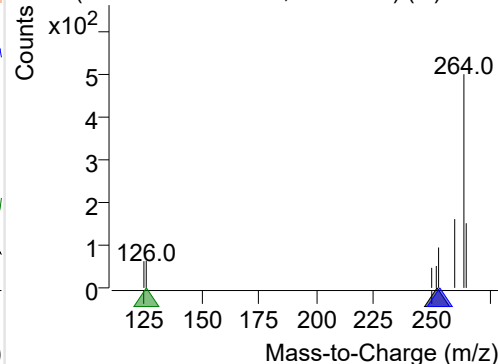
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-034.D

252.0, 253.0, 126.0

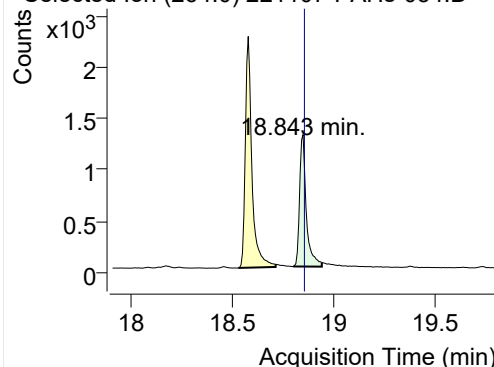


+ SIM (18.816-18.925 min, 15 scans) (**) 2211

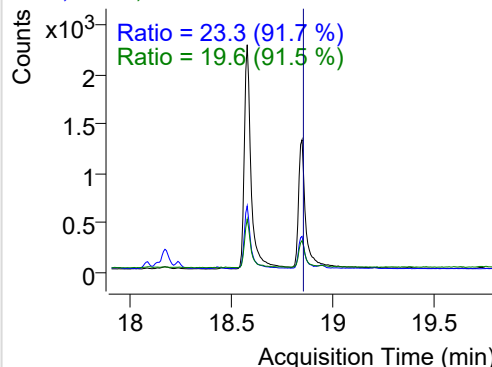


IS-D12-Perylene

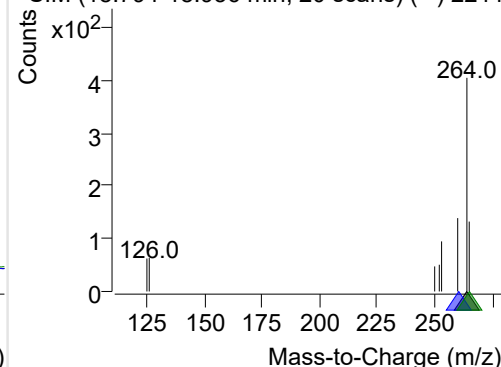
+ Selected Ion (264.0) 221107-PAHs-034.D



264.0, 260.0, 265.0

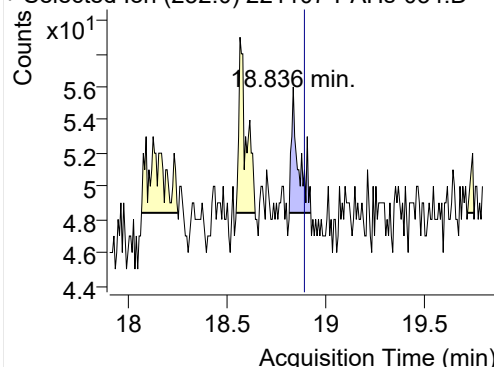


+ SIM (18.794-18.936 min, 20 scans) (**) 2211

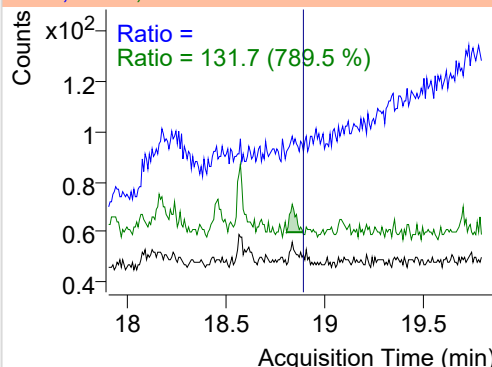


Perylene

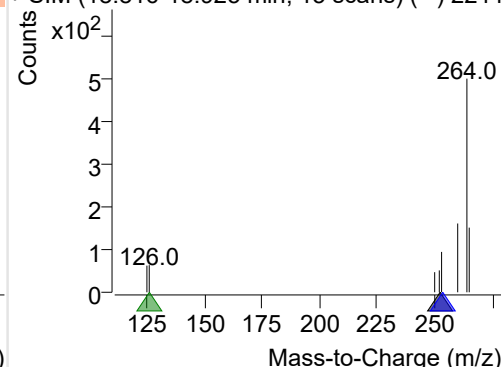
+ Selected Ion (252.0) 221107-PAHs-034.D



252.0, 253.0, 126.0

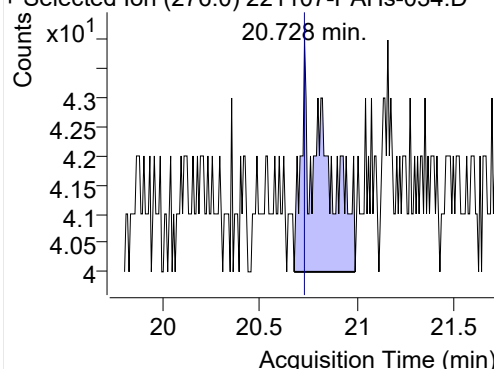


+ SIM (18.816-18.925 min, 15 scans) (**) 2211

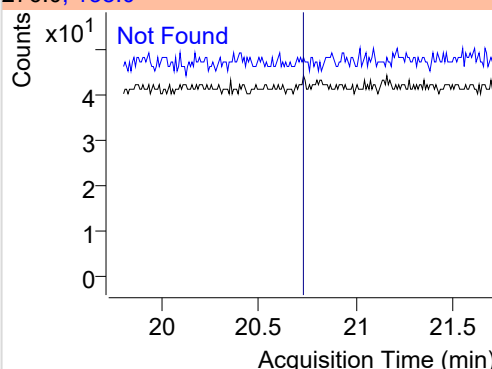


Indeno(1,2,3-c,d)pyrene

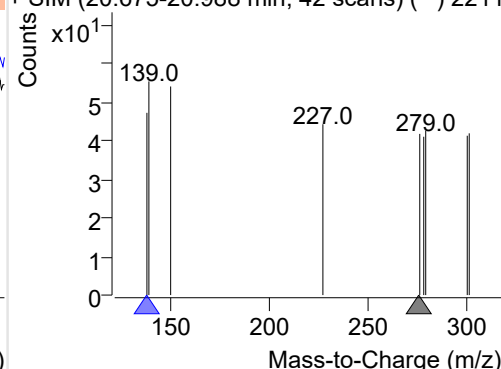
+ Selected Ion (276.0) 221107-PAHs-034.D



276.0, 138.0

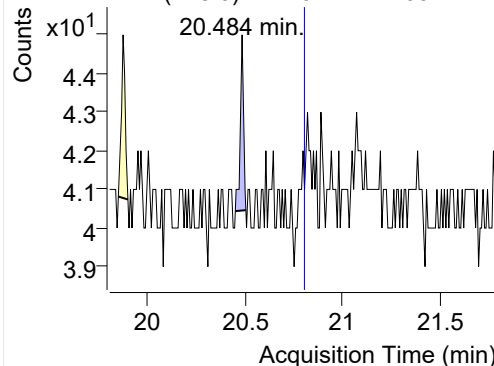


+ SIM (20.675-20.988 min, 42 scans) (**) 2211

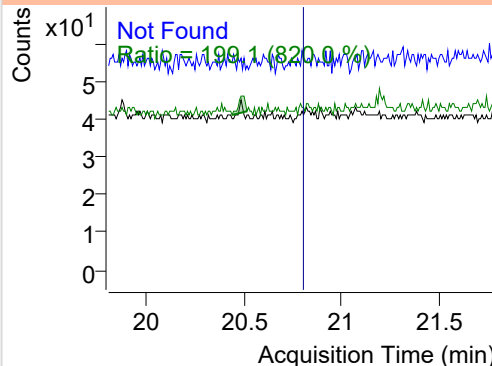


Dibenz(a,h)anthracene

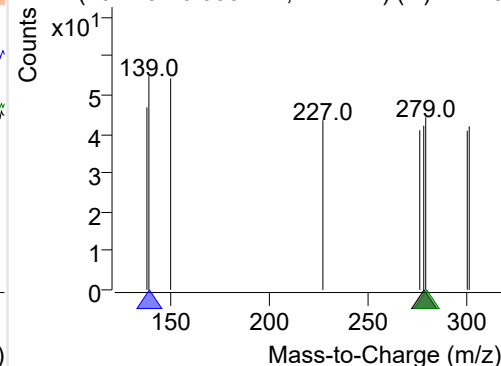
+ Selected Ion (278.0) 221107-PAHs-034.D



278.0, 139.0, 279.0



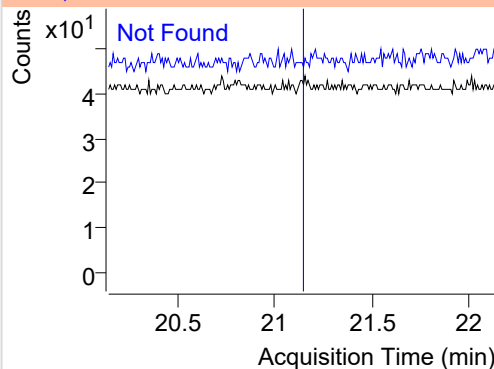
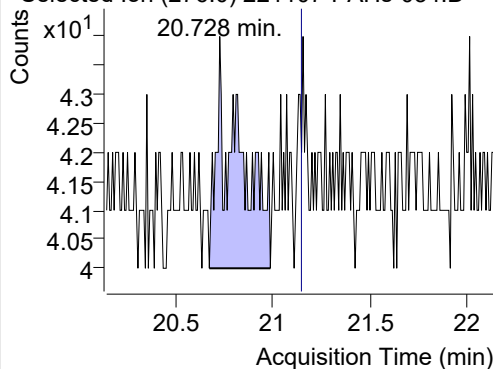
+ SIM (20.449-20.503 min, 7 scans) (**) 22110



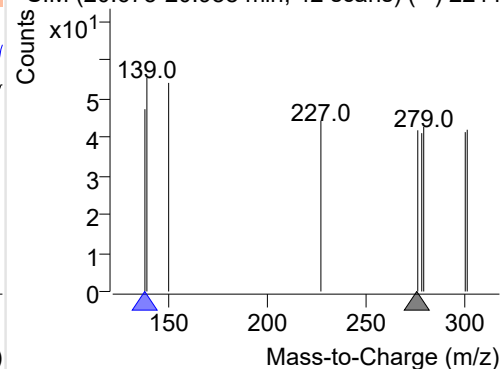
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221107-PAHs-034.D

276.0, 138.0

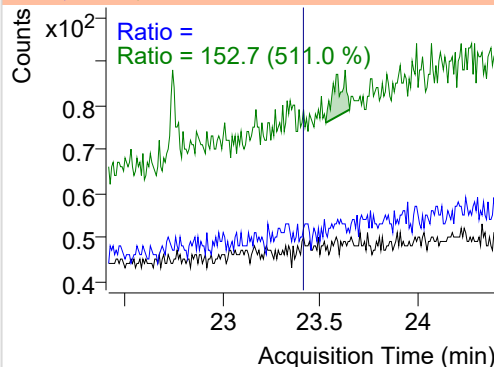
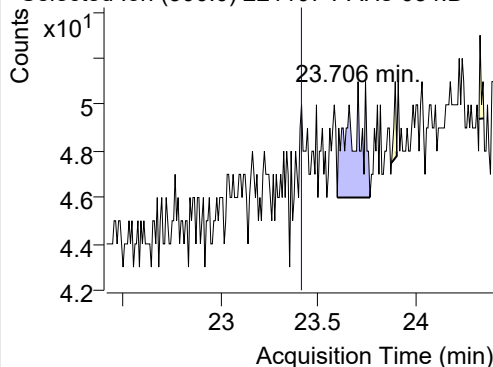


+ SIM (20.675-20.988 min, 42 scans) (**) 2211

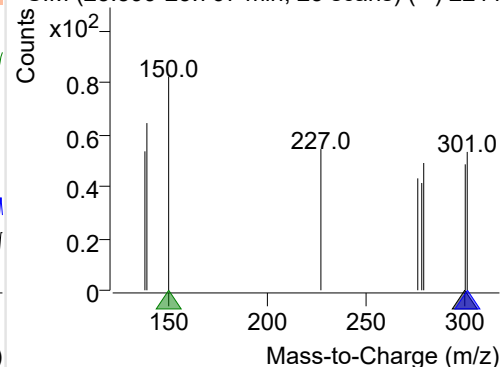
**Coronene**

+ Selected Ion (300.0) 221107-PAHs-034.D

300.0, 301.0, 150.0



+ SIM (23.599-23.767 min, 23 scans) (**) 2211



Quantitative Analysis Sample Based Report

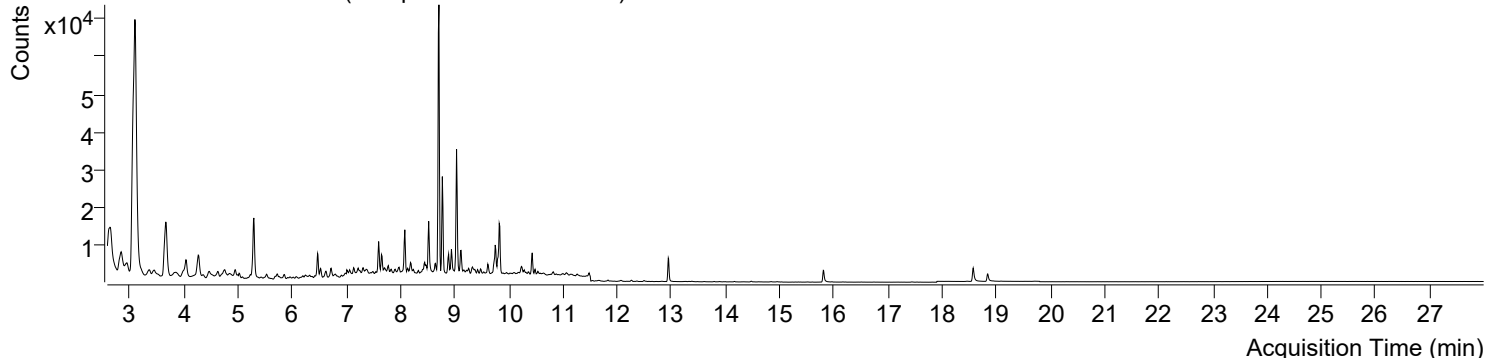


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221107-PAHs Sample\QuantResults\221107-PAHs-quant.batch.bin		
Analysis Time Stamp	2022-11-09 오후 2:22:04	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-11-09 오후 2:22:14	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-11-08 오후 4:13:58	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-11-08 오전 9:37:53	Data File	221107-PAHs-035.D
Type	Sample	Name	Sample-Gas-1020-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

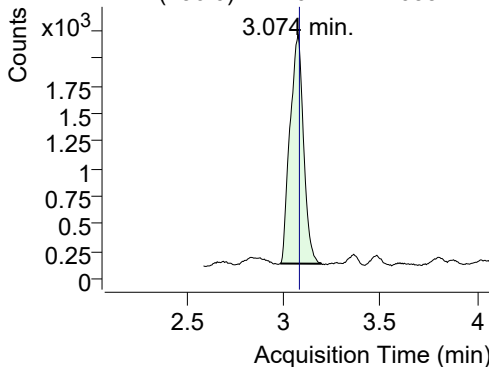
+ TIC SIM 221107-PAHs-035.D (Sample-Gas-1020-10DIL)



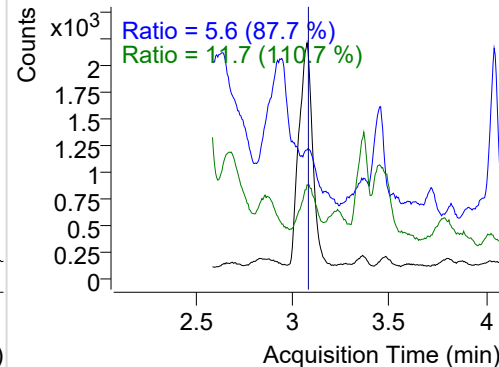
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.074	136.0	10037	2074.67	ND ng/ml	11.7
Naphthalene	3.096	128.0	256790	52796.77	ND ng/ml	13.5
Acenaphthylene	6.244	152.0	495	204.82	ND ng/ml	121.2
IS-D10-Acenaphthene	6.469	164.0	5924	3026.95	ND ng/ml	92.6
Acenaphthene	6.528	154.0	915	423.47	ND ng/ml	128.3
LSS-D10-Fluorene	7.596	176.0	5753	3421.46	ND ng/ml	99.5
Fluorene	7.648	166.0	3942	2076.47	ND ng/ml	113.3
IS-D10-Phenanthrene	9.748	188.0	9887	5434.56	ND ng/ml	24.4
Phenanthrene	9.832	178.0	9795	3229.50	ND ng/ml	14.0
Anthracene	9.832	178.0	9795	3229.50	ND ng/ml	14.0
Fluoranthene	12.499	202.0	366	157.88	ND ng/ml	38.4
LSS-D10-Pyrene	12.944	212.0	7823	4588.60	ND ng/ml	18.3
Pyrene	12.982	202.0	66	33.81	ND ng/ml	139.9
Benz(a)anthracene	15.806	228.0	18	8.72	ND ng/ml	35.9
IS-D12-Chrysene	15.806	240.0	4914	2296.83	ND ng/ml	18.6
Chrysene	15.860	228.0	32	14.70	ND ng/ml	29.6
Benzo(b)fluoranthene	18.089	252.0	23	5.61	ND ng/ml	
Benzo(k)fluoranthene	18.089	252.0	23	5.61	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.573	264.0	5100	2220.74	ND ng/ml	30.5
Benzo(e)pyrene	18.573	252.0	49	16.61	ND ng/ml	63.8
Benzo(a)pyrene	18.843	252.0	12	6.61	ND ng/ml	
IS-D12-Perylene	18.836	264.0	3213	1321.21	ND ng/ml	24.5
Perylene	18.843	252.0	12	6.61	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	21.141	276.0	2	2.78	ND ng/ml	
Dibenz(a,h)anthracene	20.912	278.0	4	2.74	ND ng/ml	
Benzo(g,h,i)perylene	21.141	276.0	2	2.78	ND ng/ml	
Coronene		300.0			ND ng/ml	

IS-D8-Naphthalene

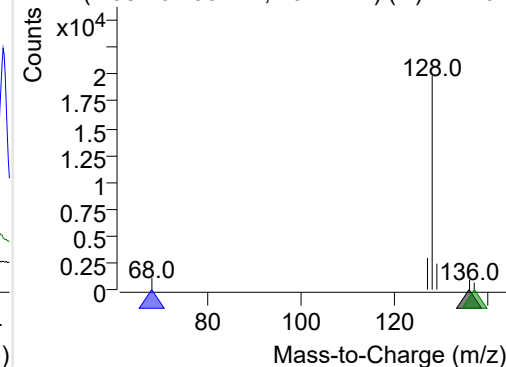
+ Selected Ion (136.0) 221107-PAHs-035.D



136.0, 68.0, 137.0

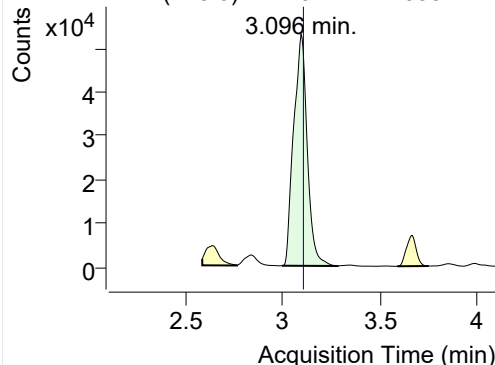


+ SIM (2.982-3.195 min, 40 scans) (**) 221107

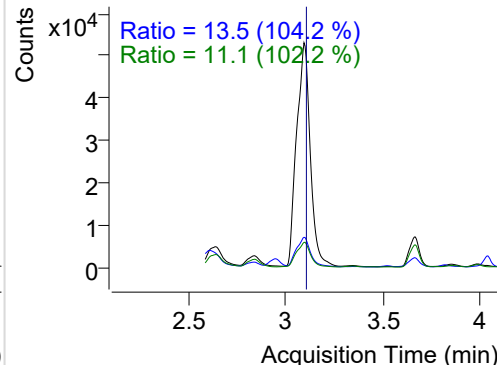


Naphthalene

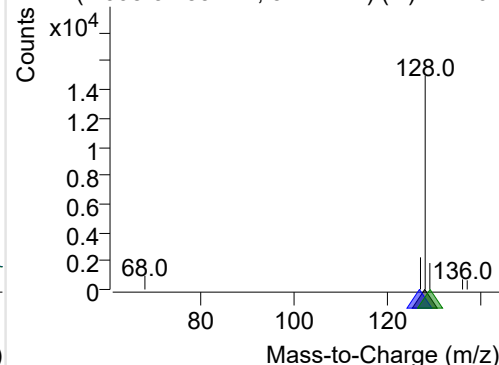
+ Selected Ion (128.0) 221107-PAHs-035.D



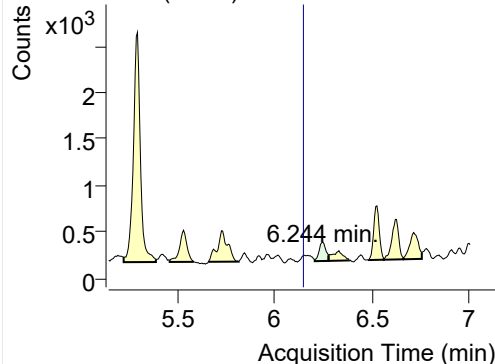
128.0, 127.0, 129.0



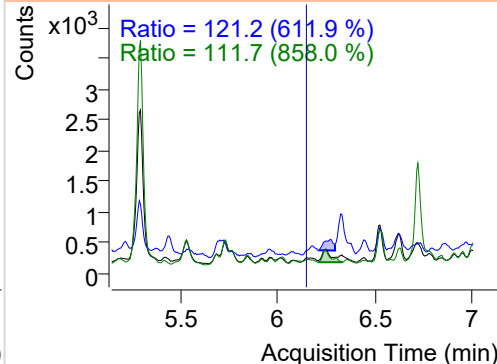
+ SIM (2.998-3.285 min, 54 scans) (**) 221107

**Acenaphthylene**

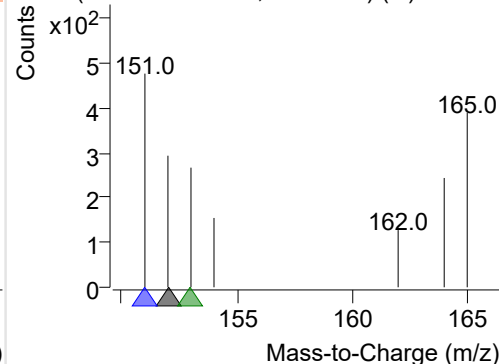
+ Selected Ion (152.0) 221107-PAHs-035.D



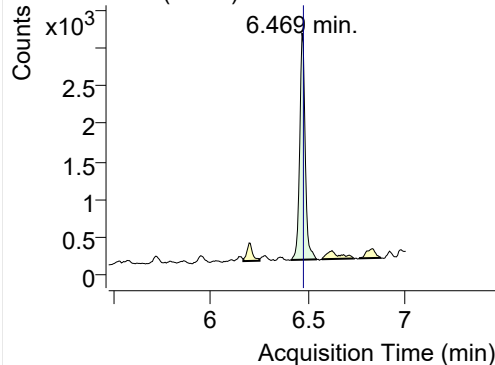
152.0, 151.0, 153.0



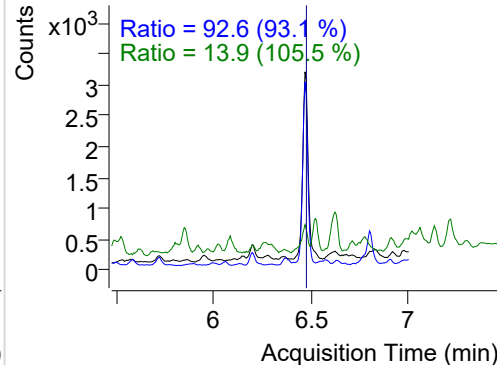
+ SIM (6.203-6.274 min, 13 scans) (**) 221107

**IS-D10-Acenaphthene**

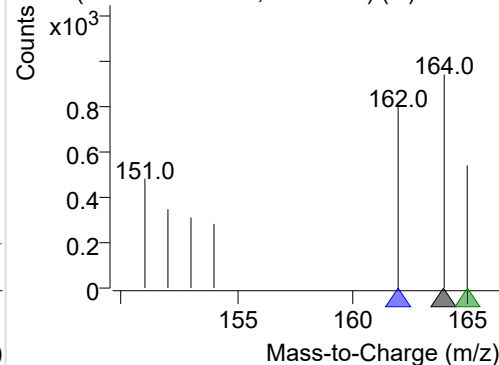
+ Selected Ion (164.0) 221107-PAHs-035.D



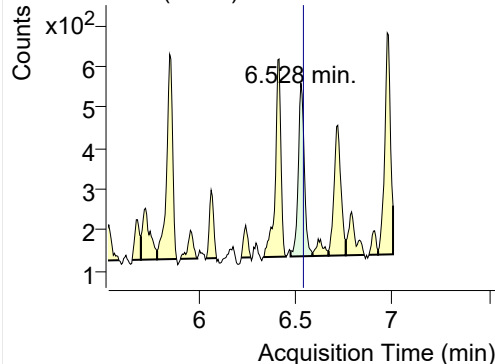
164.0, 162.0, 165.0



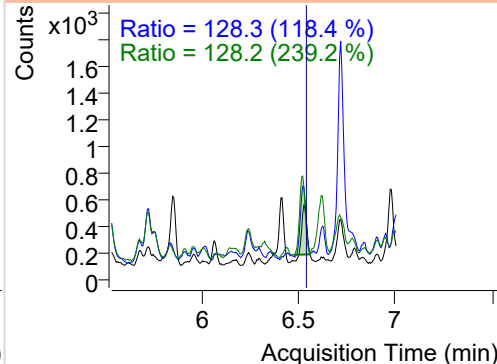
+ SIM (6.416-6.545 min, 22 scans) (**) 221107

**Acenaphthene**

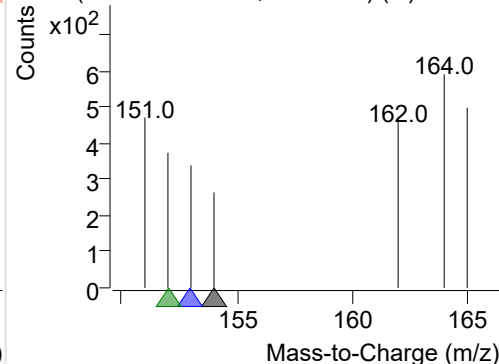
+ Selected Ion (154.0) 221107-PAHs-035.D



154.0, 153.0, 152.0

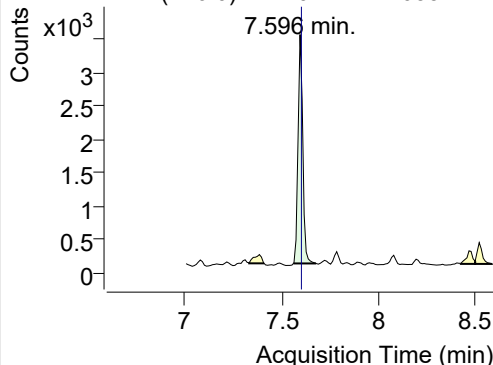


+ SIM (6.475-6.587 min, 20 scans) (**) 221107

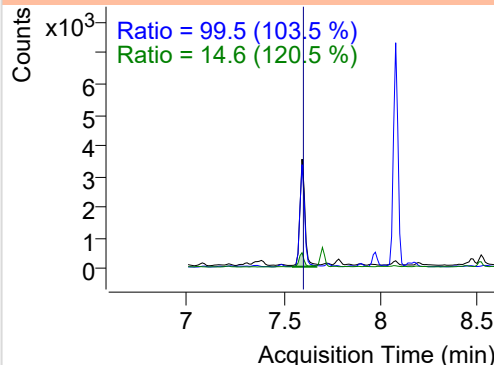


LSS-D10-Fluorene

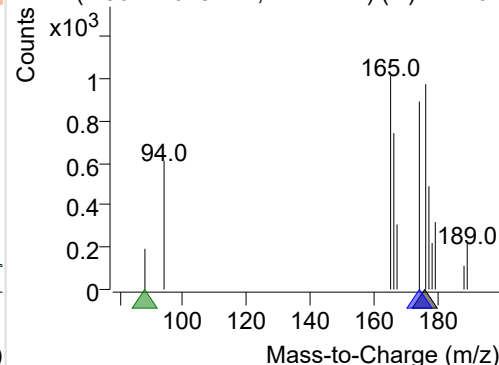
+ Selected Ion (176.0) 221107-PAHs-035.D



176.0, 174.0, 88.0

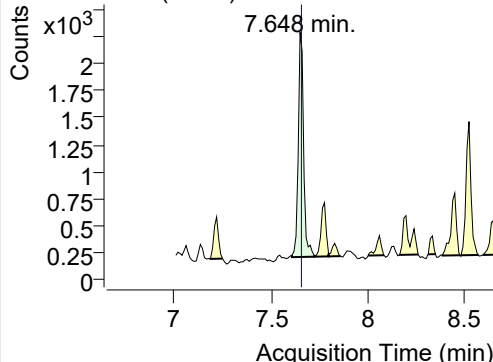


+ SIM (7.561-7.678 min, 11 scans) (**) 221107

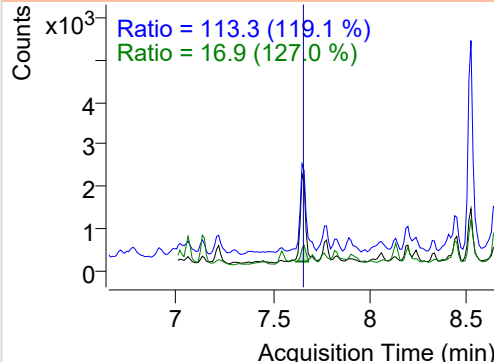


Fluorene

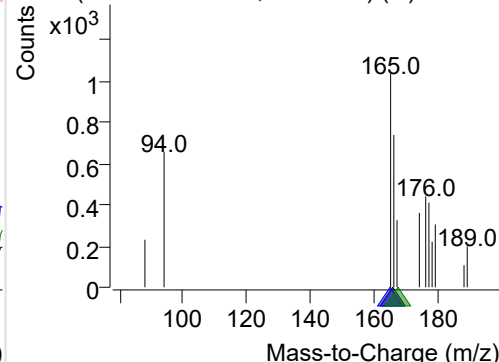
+ Selected Ion (166.0) 221107-PAHs-035.D



166.0, 165.0, 167.0

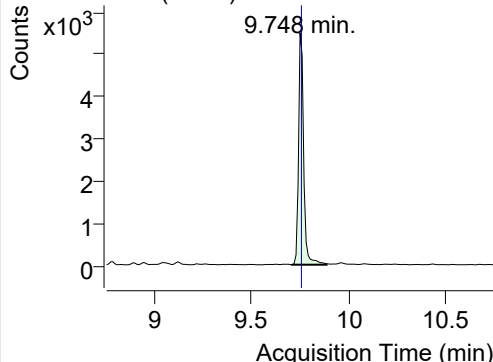


+ SIM (7.606-7.722 min, 12 scans) (**) 221107

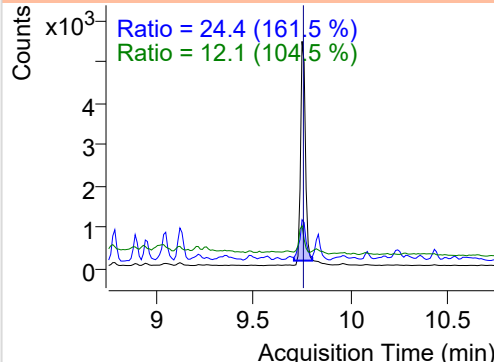


IS-D10-Phenanthrene

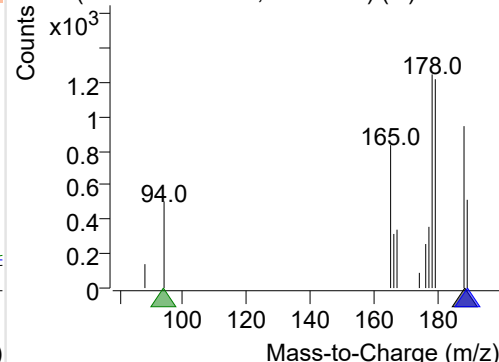
+ Selected Ion (188.0) 221107-PAHs-035.D



188.0, 189.0, 94.0

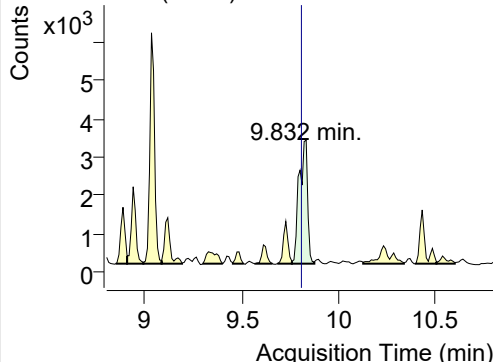


+ SIM (9.706-9.885 min, 18 scans) (**) 221107

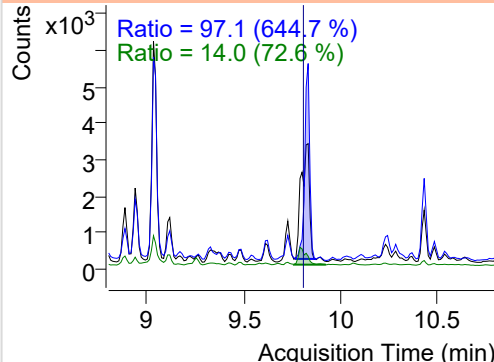


Phenanthrene

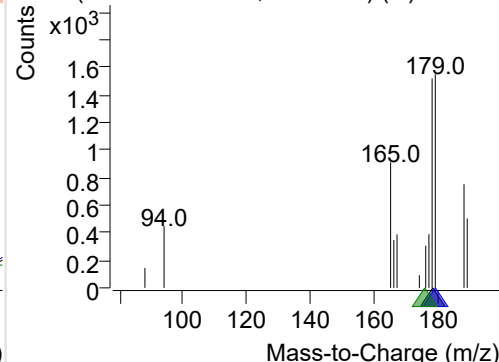
+ Selected Ion (178.0) 221107-PAHs-035.D



178.0, 179.0, 176.0

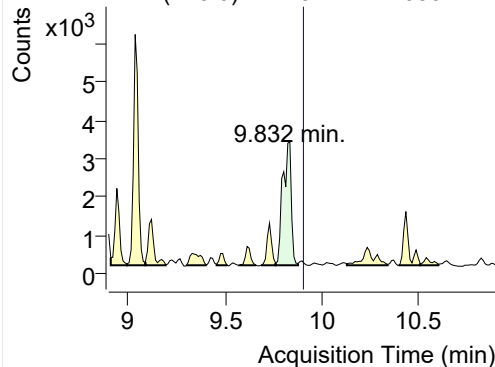


+ SIM (9.759-9.874 min, 12 scans) (**) 221107

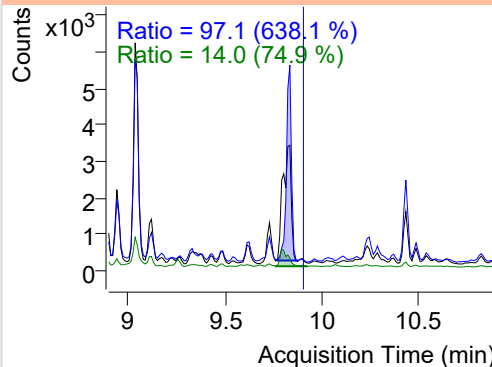


Anthracene

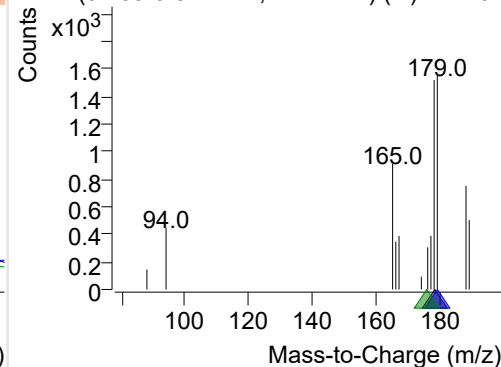
+ Selected Ion (178.0) 221107-PAHs-035.D



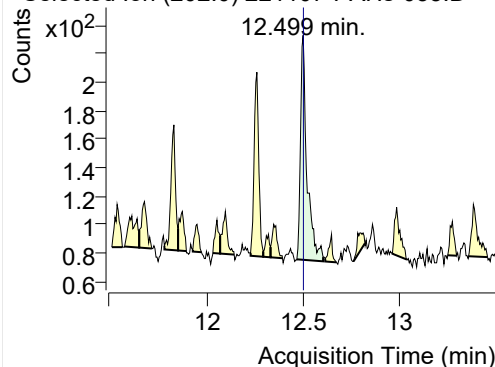
178.0, 179.0, 176.0



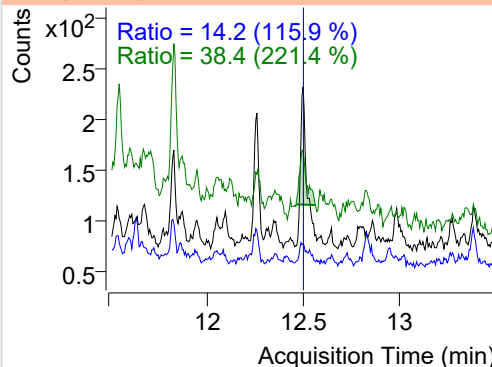
+ SIM (9.759-9.874 min, 12 scans) (**) 221107

**Fluoranthene**

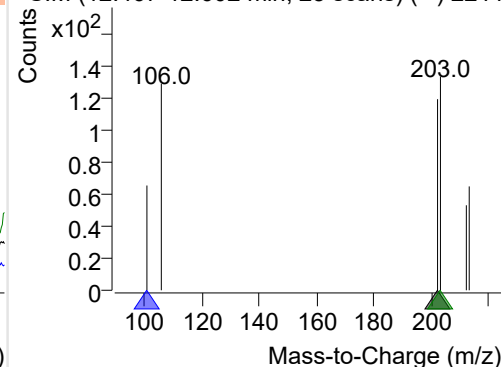
+ Selected Ion (202.0) 221107-PAHs-035.D



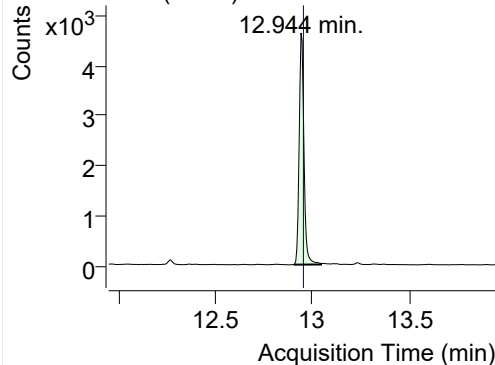
202.0, 101.0, 203.0



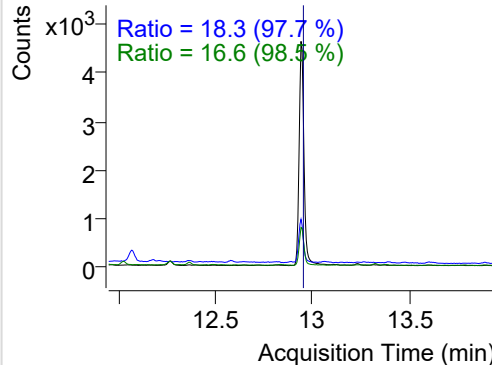
+ SIM (12.467-12.602 min, 25 scans) (**) 2211

**LSS-D10-Pyrene**

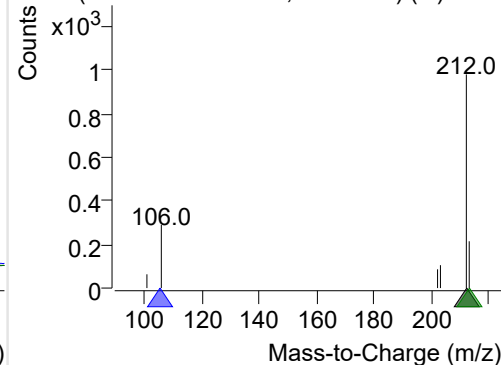
+ Selected Ion (212.0) 221107-PAHs-035.D



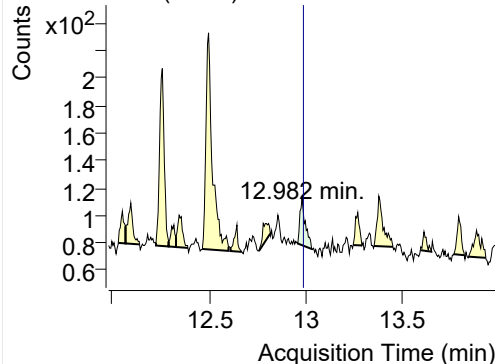
212.0, 106.0, 213.0



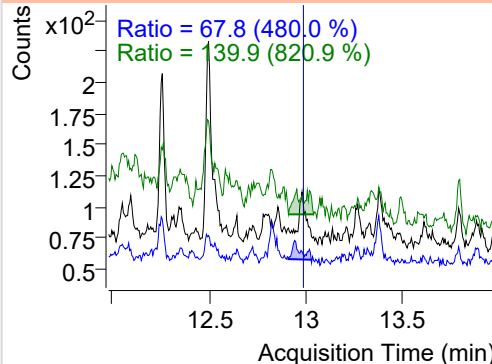
+ SIM (12.906-13.047 min, 26 scans) (**) 2211

**Pyrene**

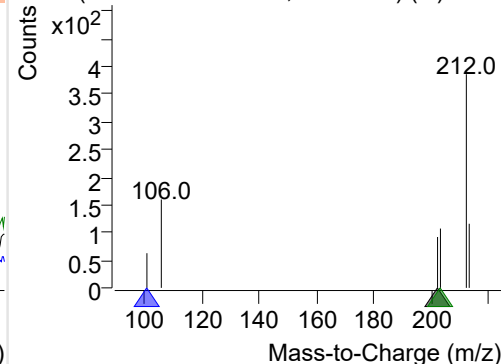
+ Selected Ion (202.0) 221107-PAHs-035.D



202.0, 101.0, 203.0



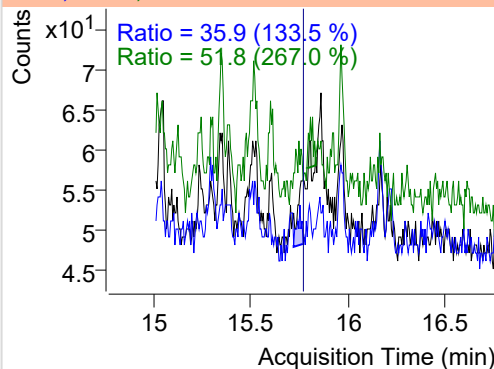
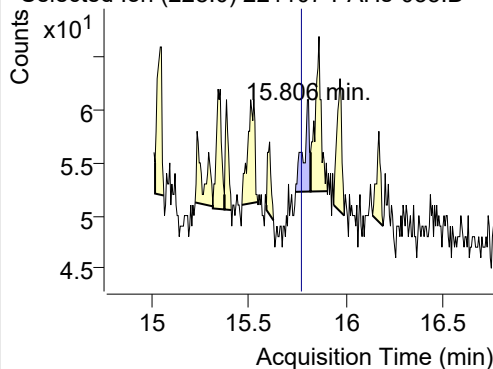
+ SIM (12.960-13.034 min, 14 scans) (**) 2211



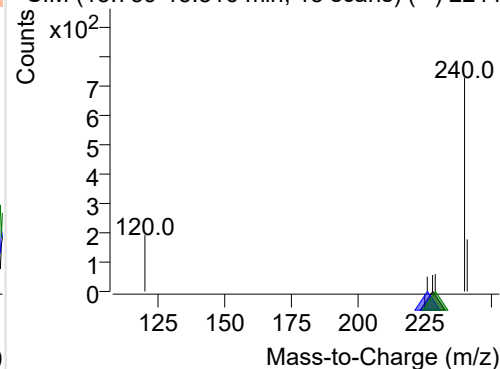
Benz(a)anthracene

+ Selected Ion (228.0) 221107-PAHs-035.D

228.0, 226.0, 229.0

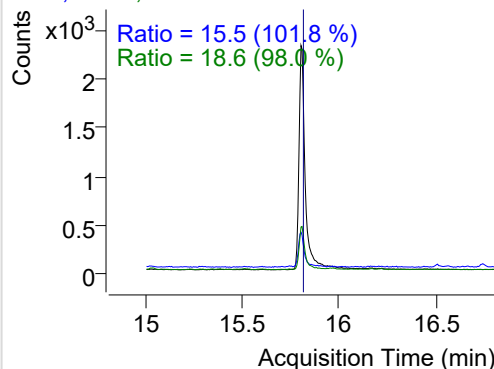
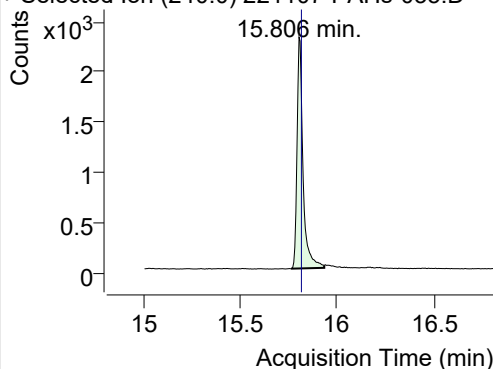


+ SIM (15.739-15.816 min, 15 scans) (**) 2211

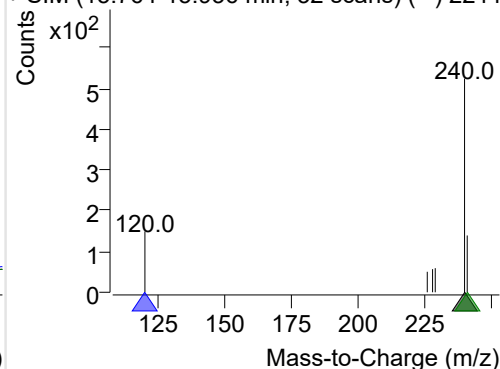
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221107-PAHs-035.D

240.0, 120.0, 241.0

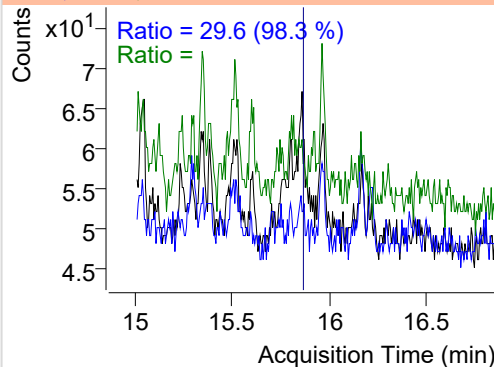
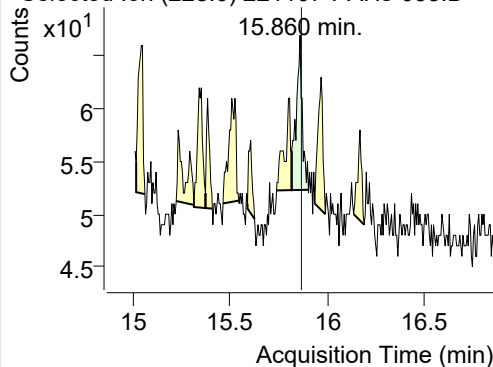


+ SIM (15.764-15.936 min, 32 scans) (**) 2211

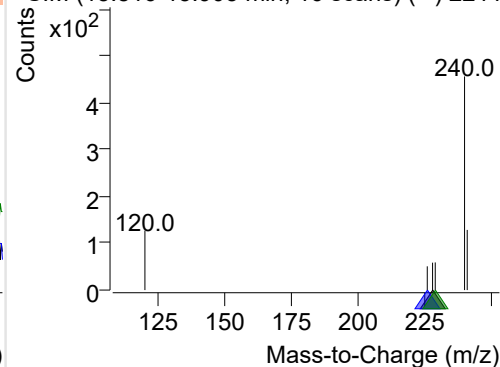
**Chrysene**

+ Selected Ion (228.0) 221107-PAHs-035.D

228.0, 226.0, 229.0

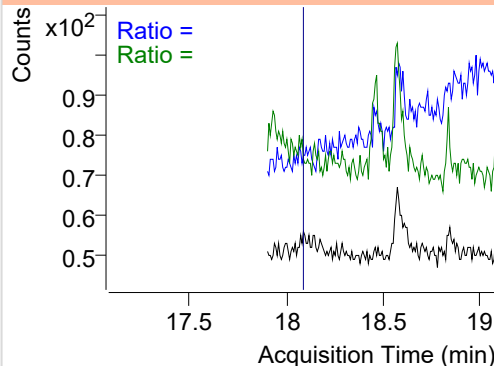
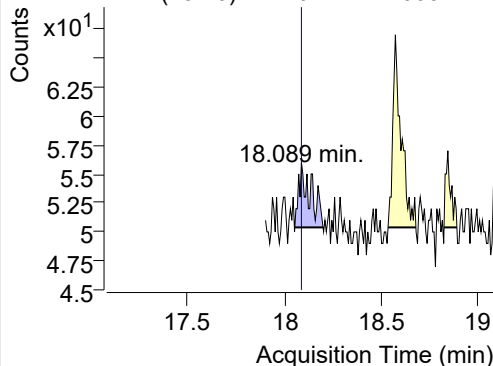


+ SIM (15.816-15.903 min, 16 scans) (**) 2211

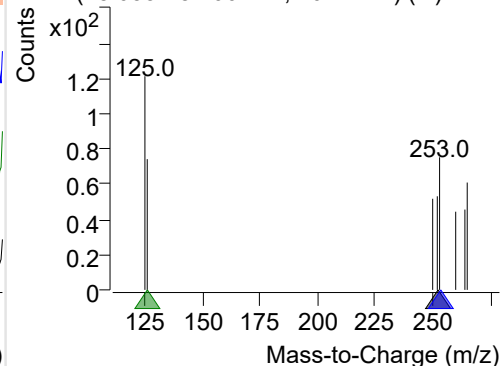
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221107-PAHs-035.D

252.0, 253.0, 126.0



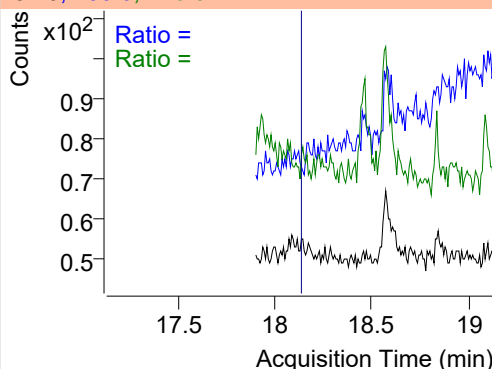
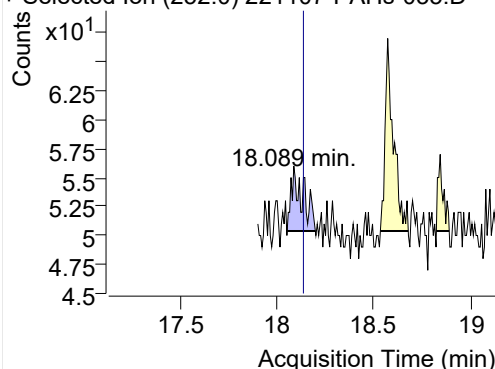
+ SIM (18.055-18.200 min, 20 scans) (**) 2211



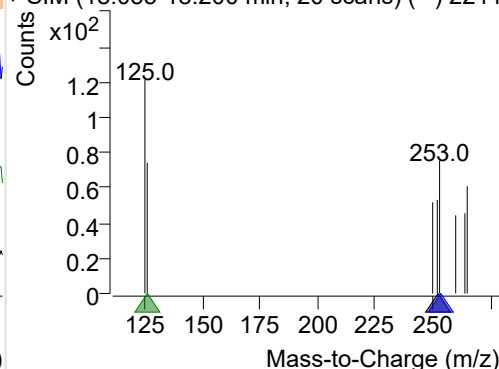
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221107-PAHs-035.D

252.0, 253.0, 126.0

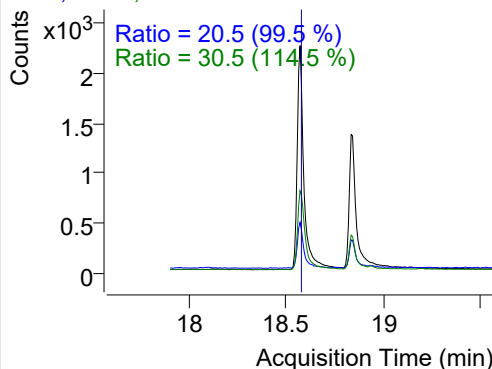
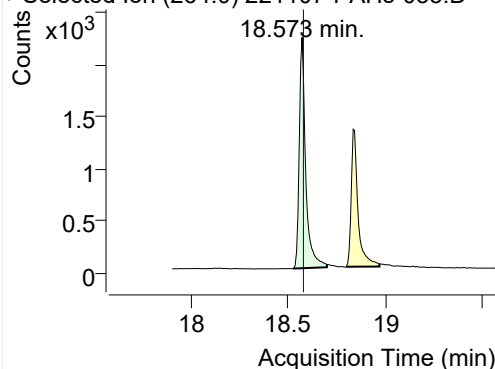


+ SIM (18.055-18.200 min, 20 scans) (**) 2211

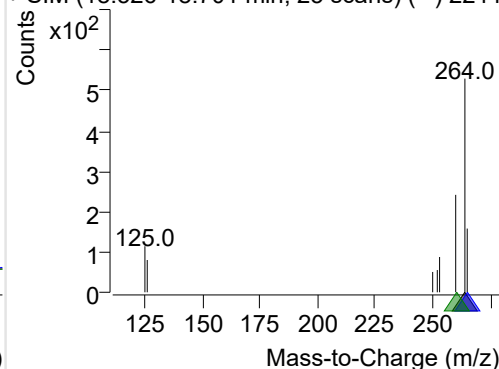
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221107-PAHs-035.D

264.0, 265.0, 260.0

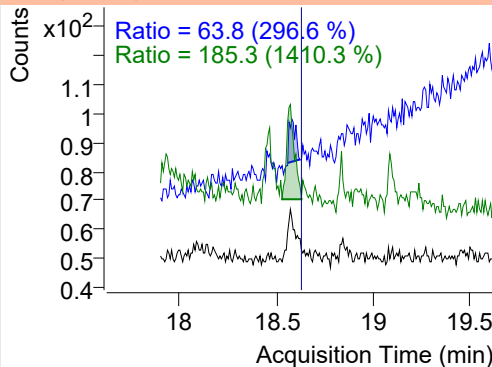
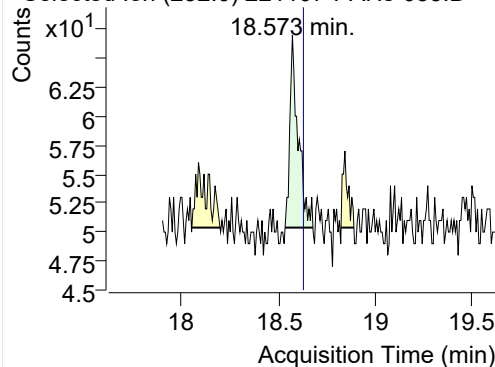


+ SIM (18.526-18.701 min, 25 scans) (**) 2211

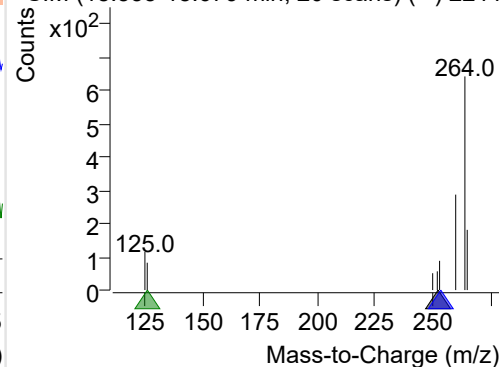
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221107-PAHs-035.D

252.0, 253.0, 126.0

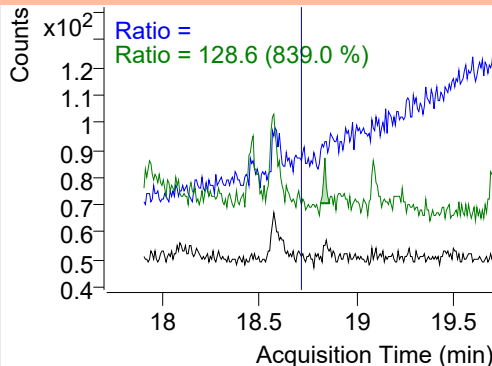
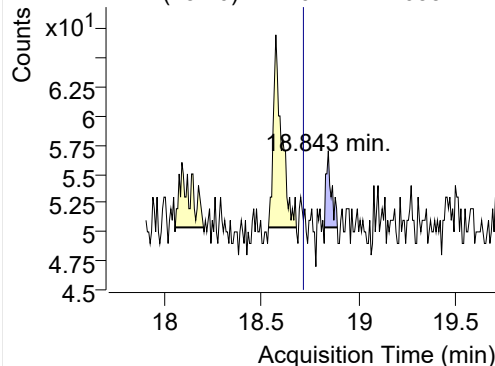


+ SIM (18.535-18.679 min, 20 scans) (**) 2211

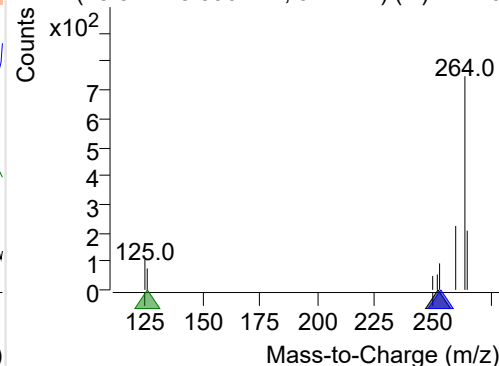
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221107-PAHs-035.D

252.0, 253.0, 126.0

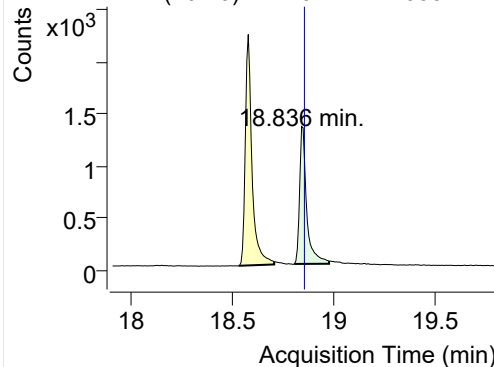


+ SIM (18.824-18.890 min, 9 scans) (**) 22110

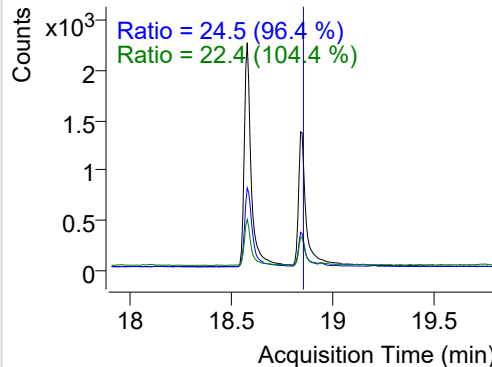


IS-D12-Perylene

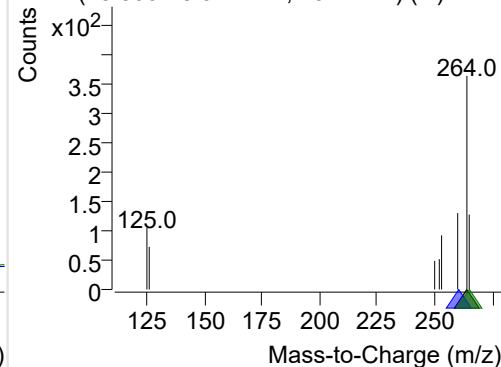
+ Selected Ion (264.0) 221107-PAHs-035.D



264.0, 260.0, 265.0

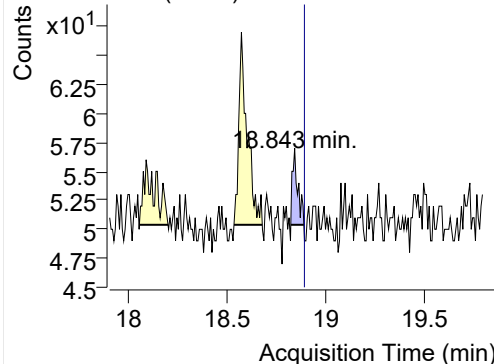


+ SIM (18.800-18.972 min, 25 scans) (**) 2211

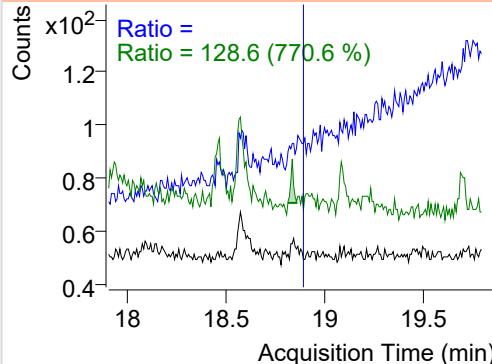


Perylene

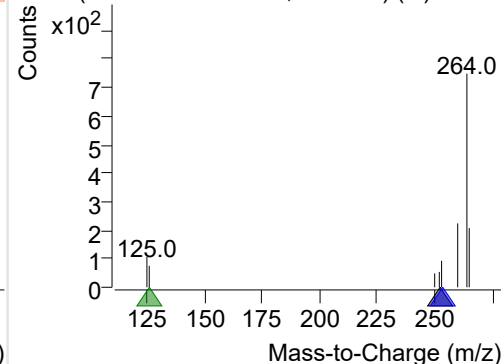
+ Selected Ion (252.0) 221107-PAHs-035.D



252.0, 253.0, 126.0

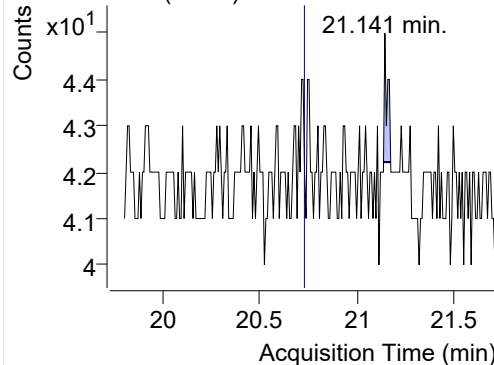


+ SIM (18.824-18.890 min, 9 scans) (**) 22110

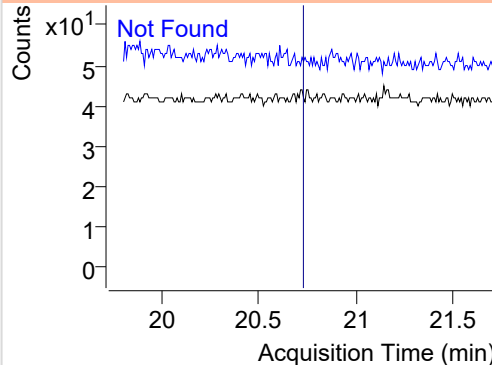


Indeno(1,2,3-c,d)pyrene

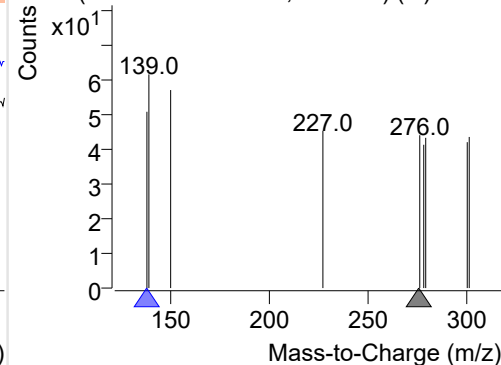
+ Selected Ion (276.0) 221107-PAHs-035.D



276.0, 138.0

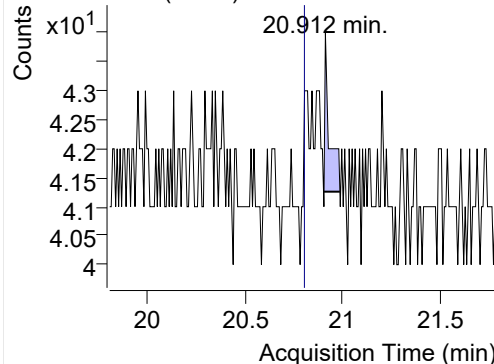


+ SIM (21.134-21.170 min, 4 scans) (**) 22110

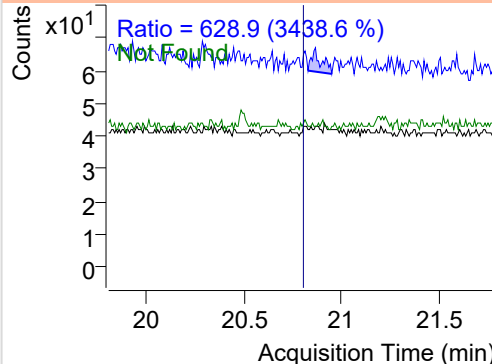


Dibenz(a,h)anthracene

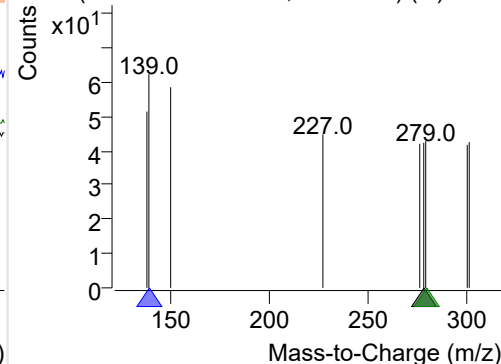
+ Selected Ion (278.0) 221107-PAHs-035.D



278.0, 139.0, 279.0

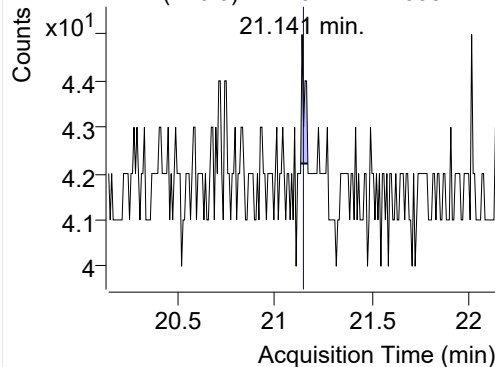


+ SIM (20.905-20.986 min, 10 scans) (**) 2211

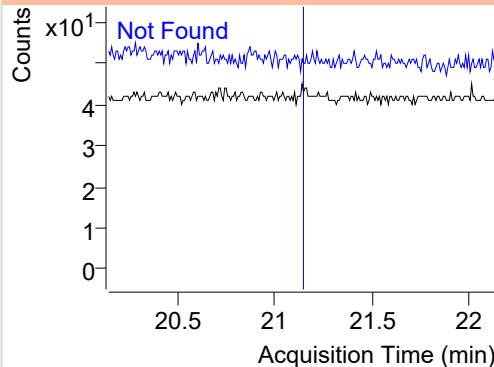


Benzo(g,h,i)perylene

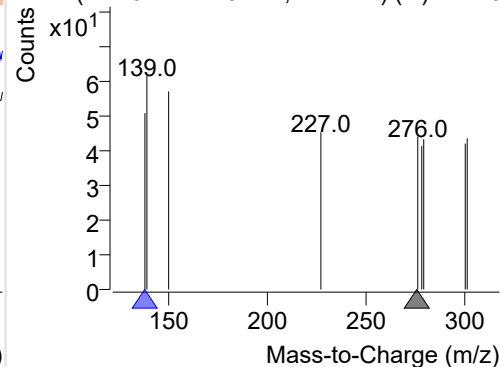
+ Selected Ion (276.0) 221107-PAHs-035.D



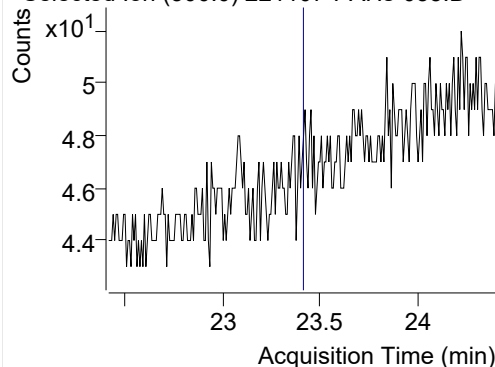
276.0, 138.0



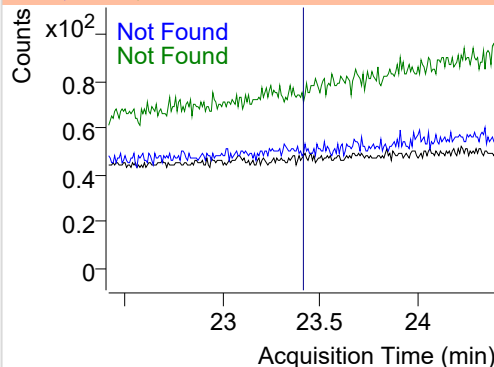
+ SIM (21.134-21.170 min, 4 scans) (**) 22110

**Coronene**

+ Selected Ion (300.0) 221107-PAHs-035.D



300.0, 301.0, 150.0



+ SIM (22.408-24.408 min, 261 scans) (**) 221

