

Quantitative Analysis Sample Based Report

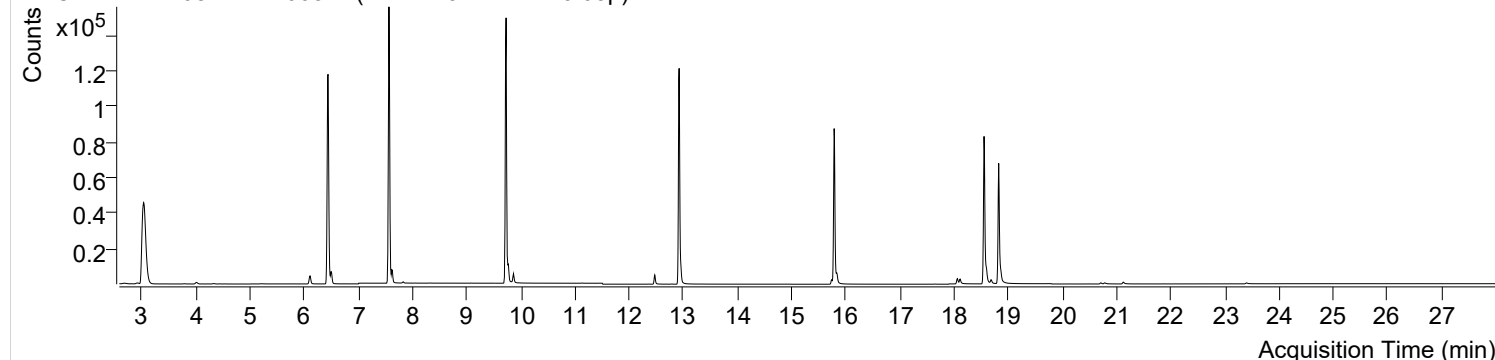


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-08 오후 6:37:38	Data File	221208-PAHs-003.D
Type	Sample	Name	PAHs-19mix-STD-0.05p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

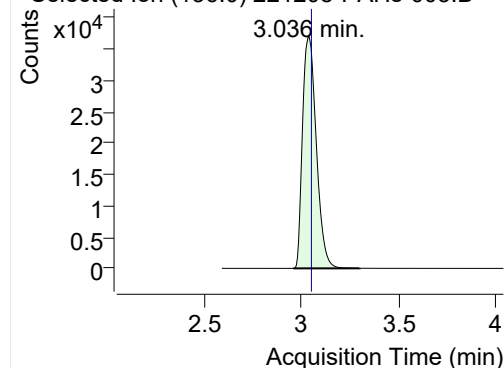
+ TIC SIM 221208-PAHs-003.D (PAHs-19mix-STD-0.05p)



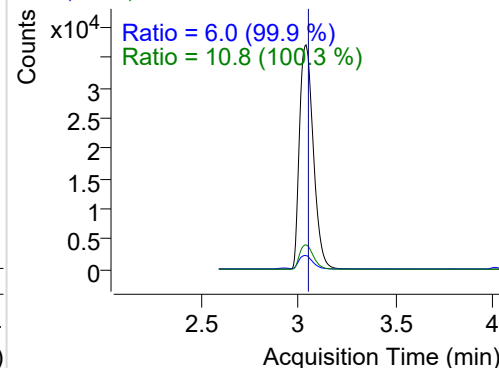
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	182594	36991.37	ND ng/ml	10.8
Naphthalene	3.058	128.0	12238	2539.68	ND ng/ml	12.1
Acenaphthylene	6.108	152.0	7609	3385.59	ND ng/ml	19.0
IS-D10-Acenaphthene	6.439	164.0	115585	57565.61	ND ng/ml	92.9
Acenaphthene	6.499	154.0	4955	2353.27	ND ng/ml	103.4
LSS-D10-Fluorene	7.564	176.0	121703	71138.77	ND ng/ml	89.6
Fluorene	7.627	166.0	6179	3211.09	ND ng/ml	90.8
IS-D10-Phenanthrene	9.728	188.0	195786	121581.3	ND ng/ml	14.9
Phenanthrene	9.770	178.0	9599	5665.98	ND ng/ml	18.5
Anthracene	9.864	178.0	5946	3394.32	ND ng/ml	18.9
Fluoranthene	12.472	202.0	6993	3998.26	ND ng/ml	17.0
LSS-D10-Pyrene	12.922	212.0	149885	89903.29	ND ng/ml	18.3
Pyrene	12.955	202.0	9397	5064.02	ND ng/ml	21.4
Benz(a)anthracene	15.741	228.0	3177	1748.00	ND ng/ml	28.2
IS-D12-Chrysene	15.784	240.0	113439	65233.48	ND ng/ml	18.8
Chrysene	15.833	228.0	5932	2887.52	ND ng/ml	27.4
Benzo(b)fluoranthene	18.060	252.0	3147	1723.98	ND ng/ml	22.7
Benzo(k)fluoranthene	18.110	252.0	3713	1538.03	ND ng/ml	20.7
SS-D12-Benzo(e)pyrene	18.552	264.0	104620	56327.19	ND ng/ml	24.7
Benzo(e)pyrene	18.594	252.0	5982	2876.20	ND ng/ml	23.2
Benzo(a)pyrene	18.687	252.0	2029	1044.80	ND ng/ml	24.0
IS-D12-Perylene	18.822	264.0	83551	46405.50	ND ng/ml	23.1
Perylene	18.858	252.0	4310	1888.49	ND ng/ml	24.8
Indeno(1,2,3-c,d)pyrene	20.706	276.0	1066	465.16	ND ng/ml	23.8
Dibenz(a,h)anthracene	20.782	278.0	925	301.52	ND ng/ml	22.6
Benzo(g,h,i)perylene	21.126	276.0	2021	780.72	ND ng/ml	24.4
Coronene	23.401	300.0	1105	323.41	ND ng/ml	25.5

IS-D8-Naphthalene

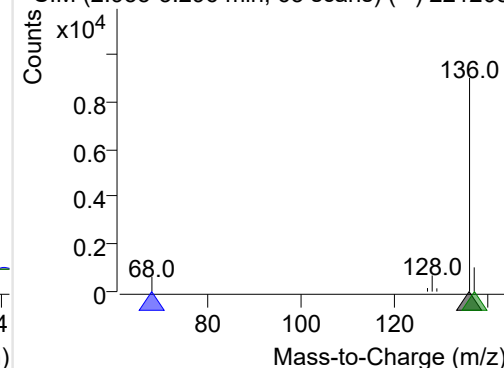
+ Selected Ion (136.0) 221208-PAHs-003.D



136.0, 68.0, 137.0

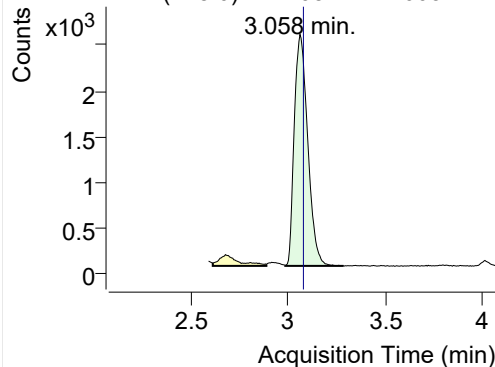


+ SIM (2.955-3.296 min, 63 scans) (**) 221208

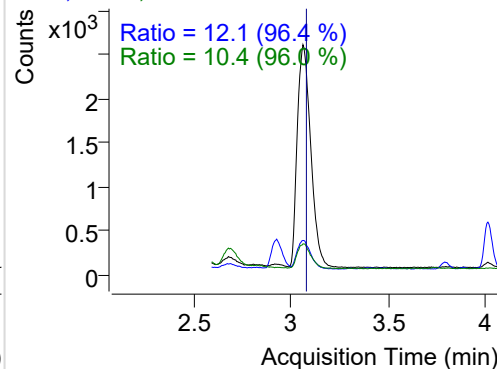


Naphthalene

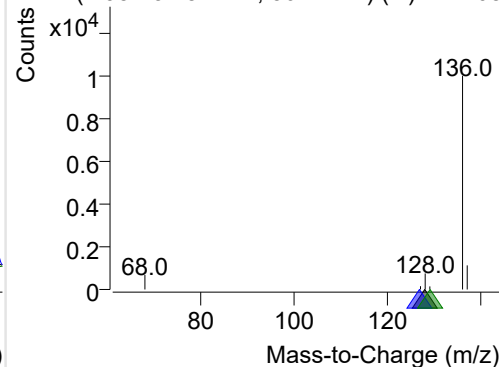
+ Selected Ion (128.0) 221208-PAHs-003.D



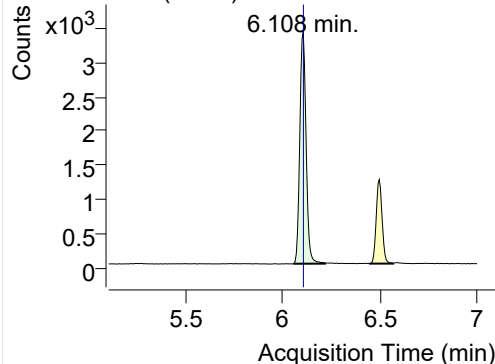
128.0, 127.0, 129.0



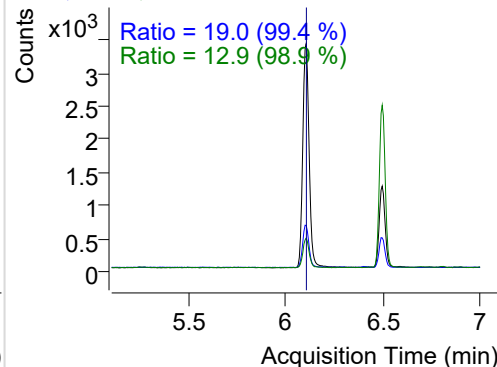
+ SIM (2.982-3.282 min, 56 scans) (**) 221208

**Acenaphthylene**

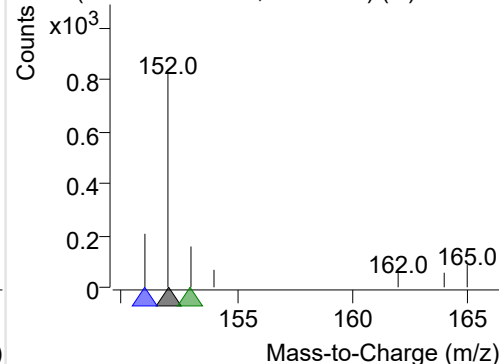
+ Selected Ion (152.0) 221208-PAHs-003.D



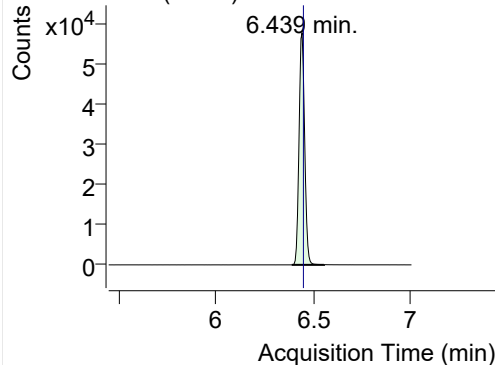
152.0, 151.0, 153.0



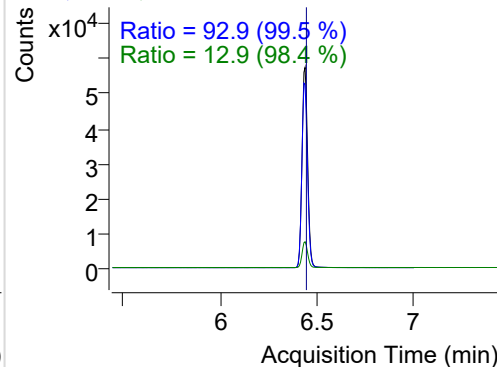
+ SIM (6.057-6.220 min, 28 scans) (**) 221208

**IS-D10-Acenaphthene**

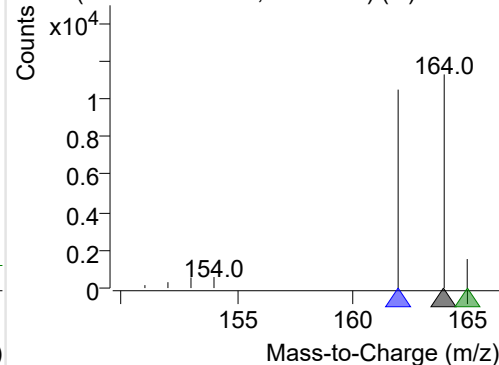
+ Selected Ion (164.0) 221208-PAHs-003.D



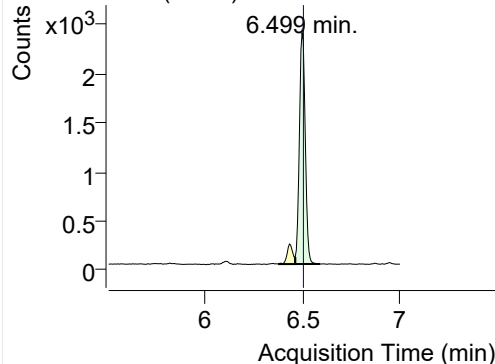
164.0, 162.0, 165.0



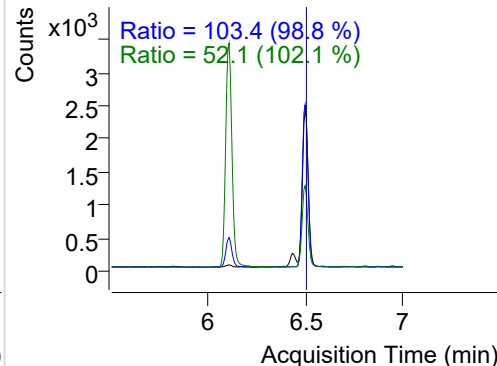
+ SIM (6.386-6.552 min, 29 scans) (**) 221208

**Acenaphthene**

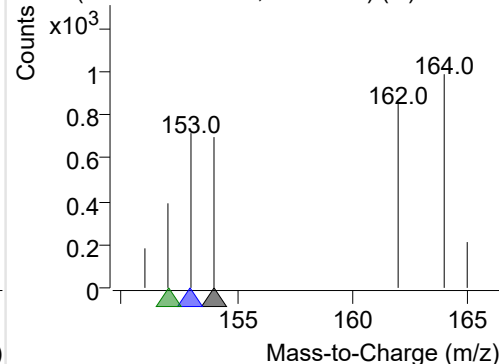
+ Selected Ion (154.0) 221208-PAHs-003.D



154.0, 153.0, 152.0

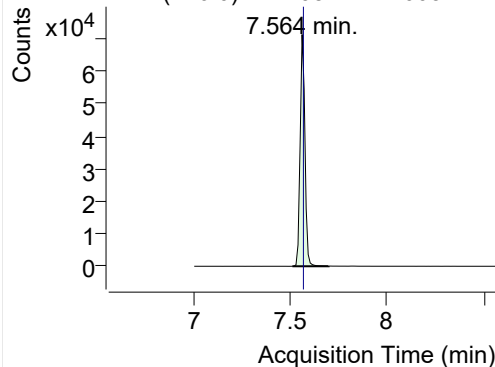


+ SIM (6.463-6.591 min, 22 scans) (**) 221208

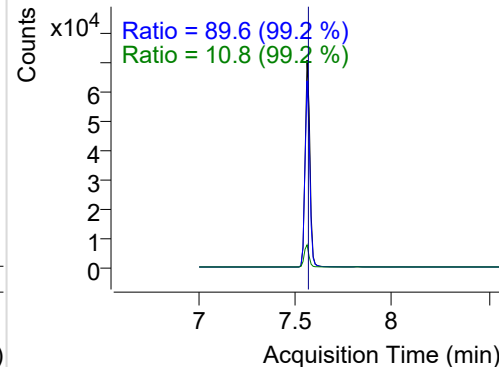


LSS-D10-Fluorene

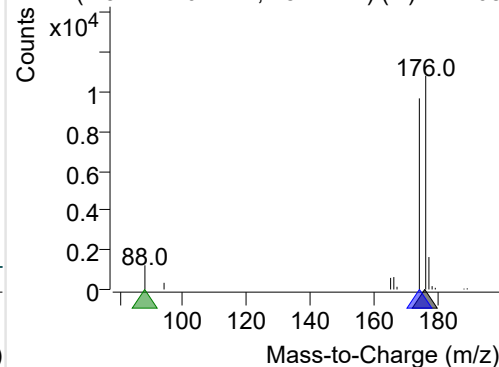
+ Selected Ion (176.0) 221208-PAHs-003.D



176.0, 174.0, 88.0

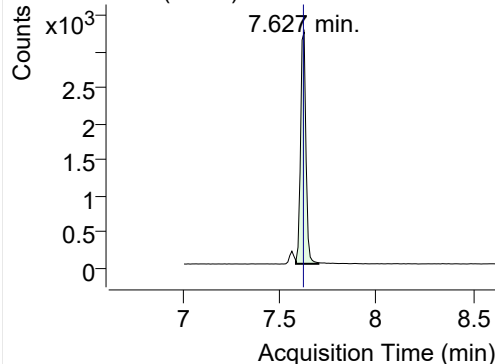


+ SIM (7.514-7.701 min, 18 scans) (**) 221208

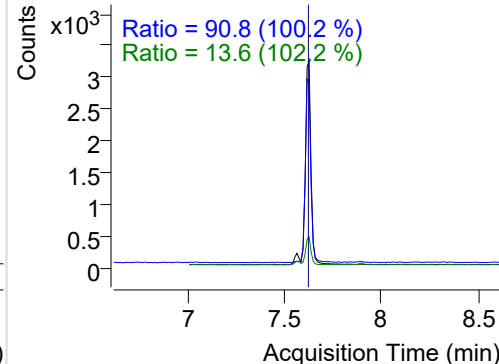


Fluorene

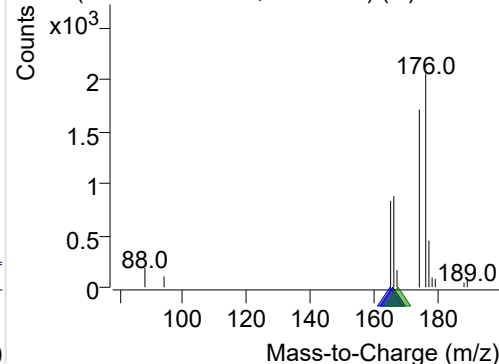
+ Selected Ion (166.0) 221208-PAHs-003.D



166.0, 165.0, 167.0

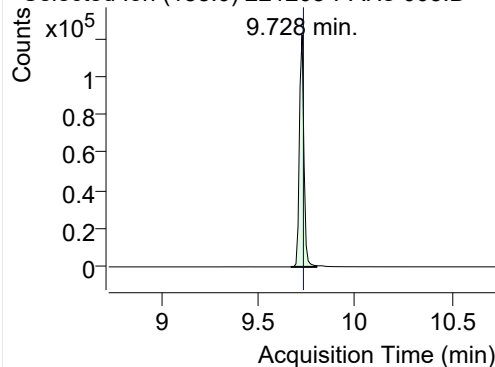


+ SIM (7.585-7.701 min, 12 scans) (**) 221208

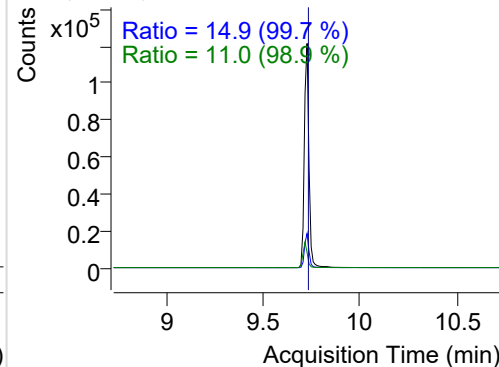


IS-D10-Phenanthrene

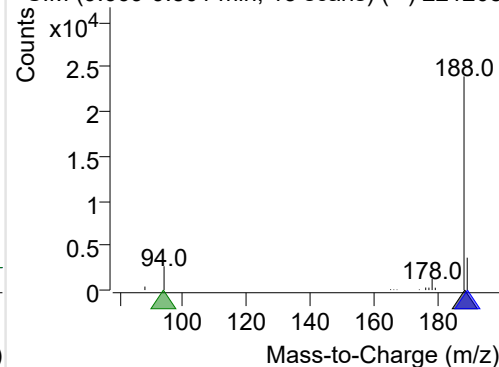
+ Selected Ion (188.0) 221208-PAHs-003.D



188.0, 189.0, 94.0

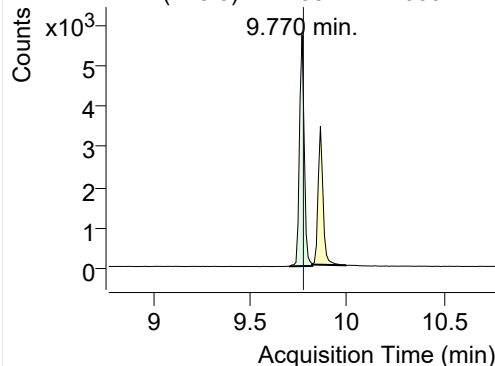


+ SIM (9.669-9.801 min, 13 scans) (**) 221208

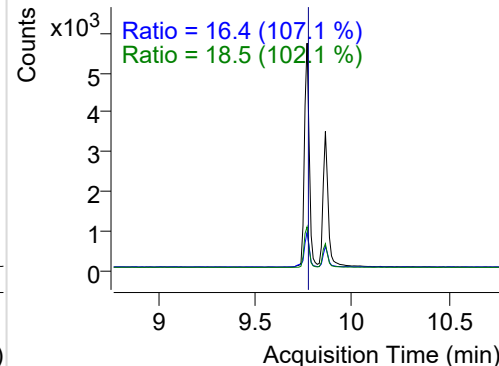


Phenanthrene

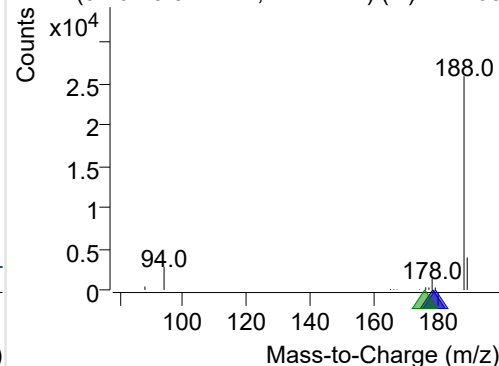
+ Selected Ion (178.0) 221208-PAHs-003.D



178.0, 179.0, 176.0

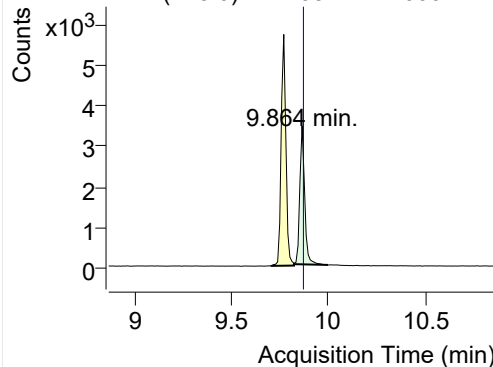


+ SIM (9.707-9.822 min, 12 scans) (**) 221208

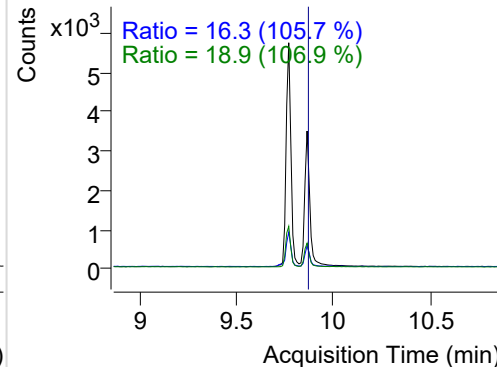


Anthracene

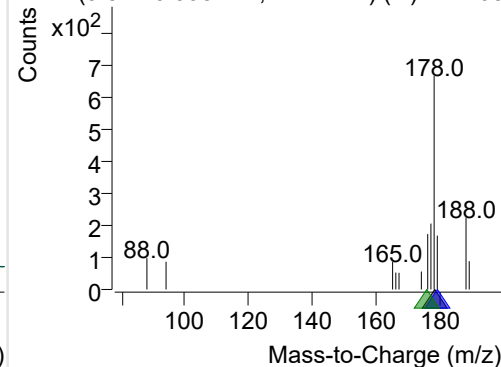
+ Selected Ion (178.0) 221208-PAHs-003.D



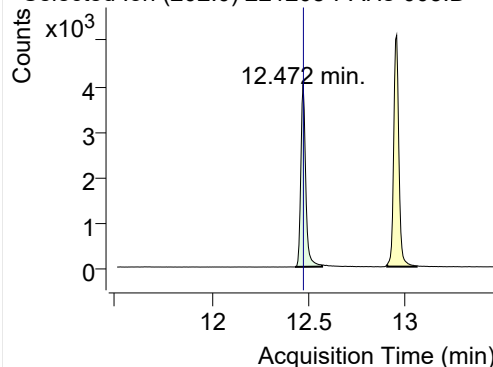
178.0, 179.0, 176.0



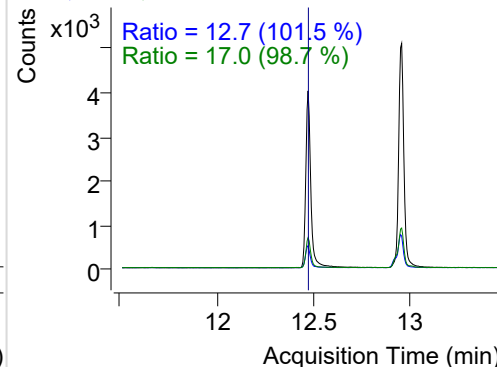
+ SIM (9.822-9.998 min, 17 scans) (**) 221208

**Fluoranthene**

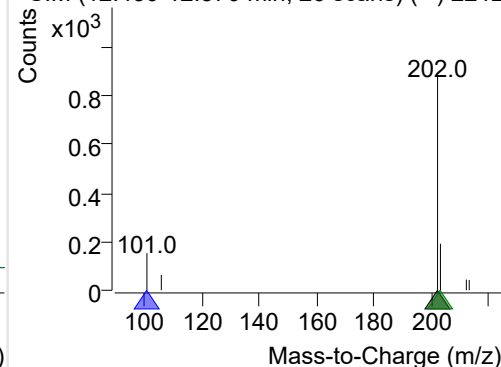
+ Selected Ion (202.0) 221208-PAHs-003.D



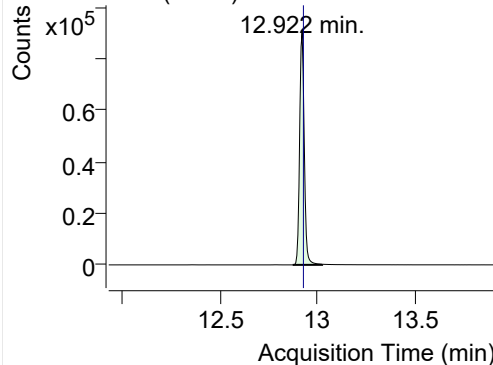
202.0, 101.0, 203.0



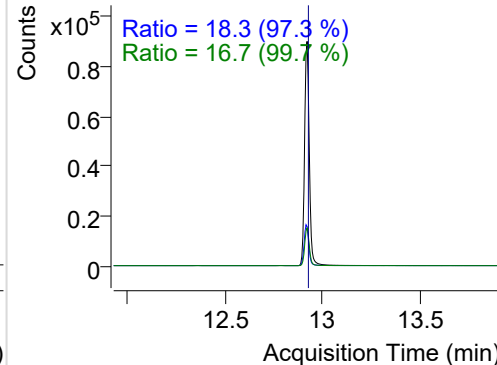
+ SIM (12.430-12.570 min, 26 scans) (**) 2212

**LSS-D10-Pyrene**

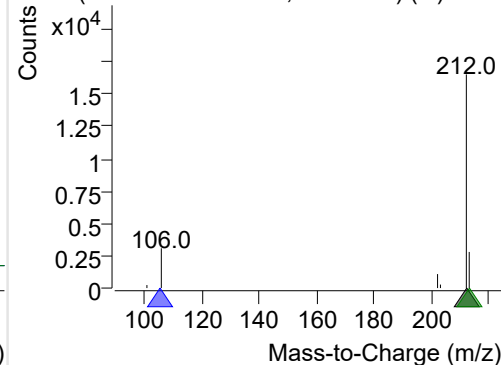
+ Selected Ion (212.0) 221208-PAHs-003.D



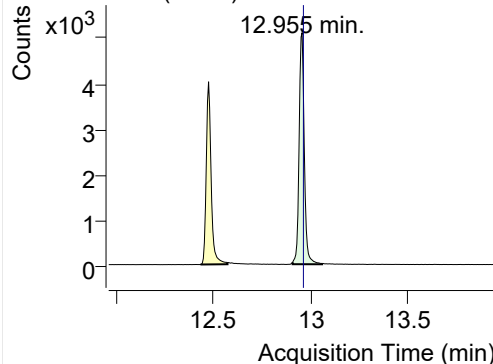
212.0, 106.0, 213.0



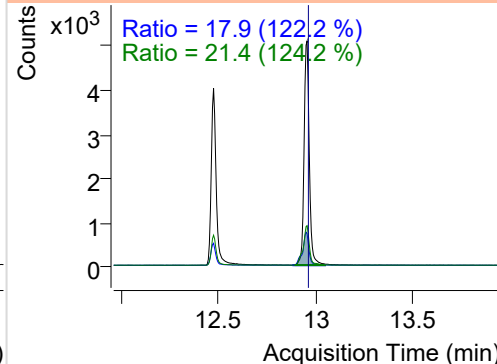
+ SIM (12.874-13.025 min, 28 scans) (**) 2212

**Pyrene**

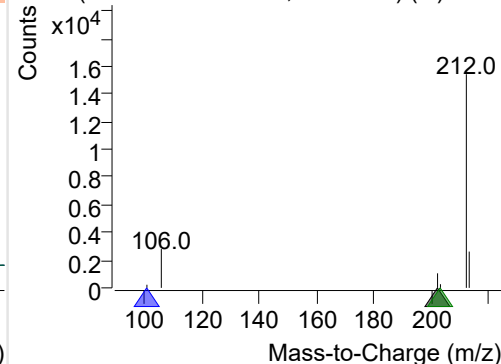
+ Selected Ion (202.0) 221208-PAHs-003.D



202.0, 101.0, 203.0

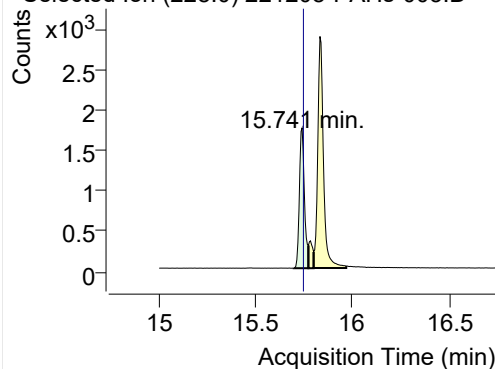


+ SIM (12.906-13.058 min, 29 scans) (**) 2212

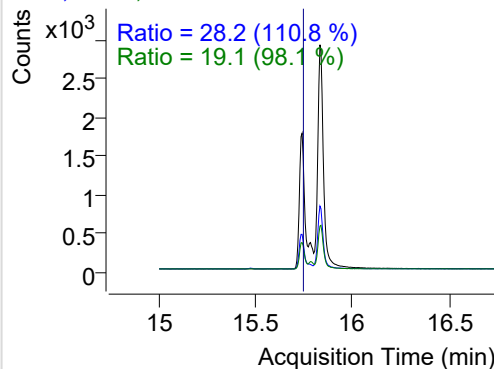


Benz(a)anthracene

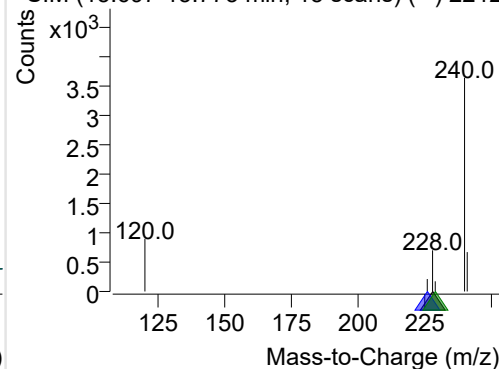
+ Selected Ion (228.0) 221208-PAHs-003.D



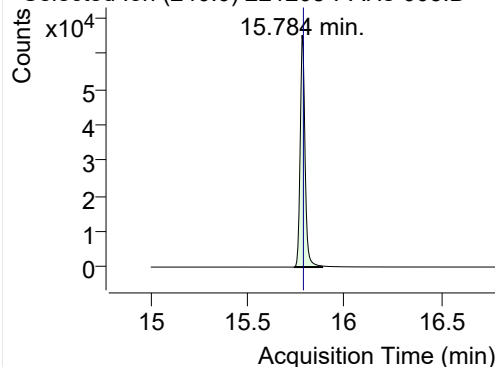
228.0, 226.0, 229.0



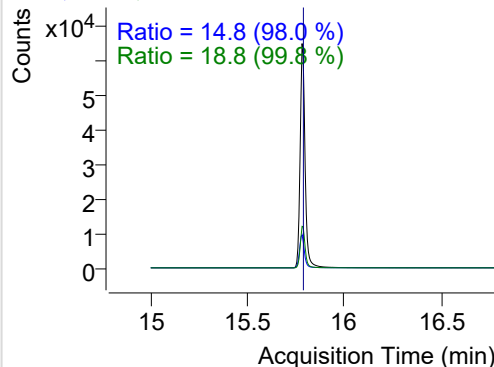
+ SIM (15.697-15.773 min, 15 scans) (**) 2212

**IS-D12-Chrysene**

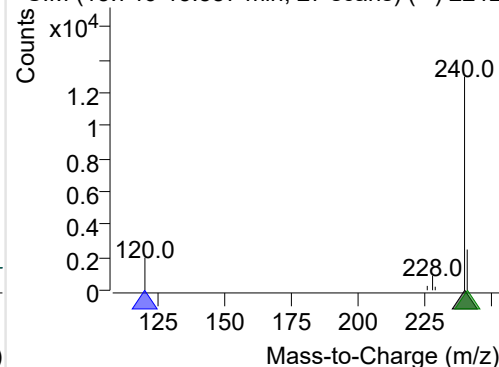
+ Selected Ion (240.0) 221208-PAHs-003.D



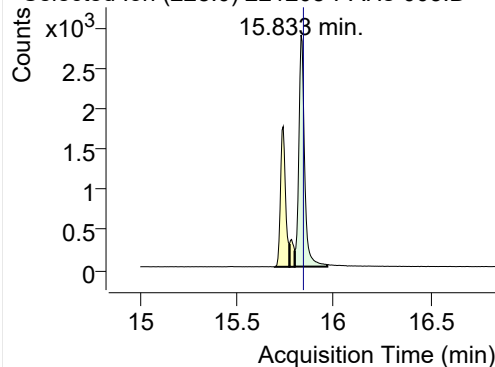
240.0, 120.0, 241.0



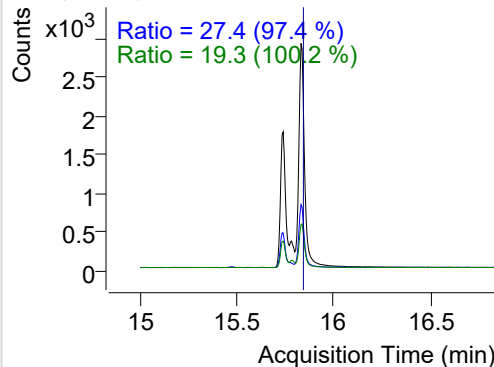
+ SIM (15.746-15.887 min, 27 scans) (**) 2212

**Chrysene**

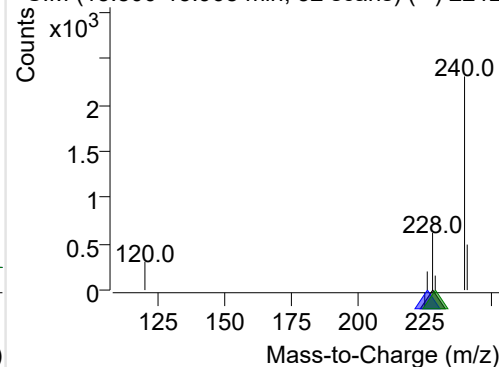
+ Selected Ion (228.0) 221208-PAHs-003.D



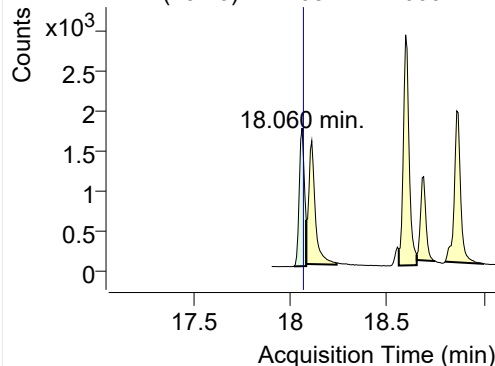
228.0, 226.0, 229.0



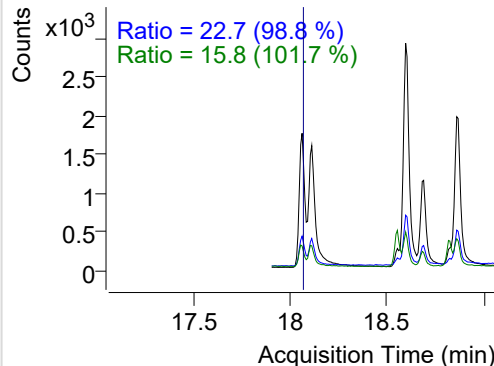
+ SIM (15.800-15.968 min, 32 scans) (**) 2212

**Benzo(b)fluoranthene**

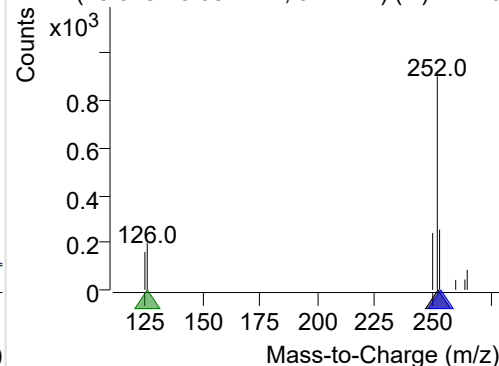
+ Selected Ion (252.0) 221208-PAHs-003.D



252.0, 253.0, 126.0

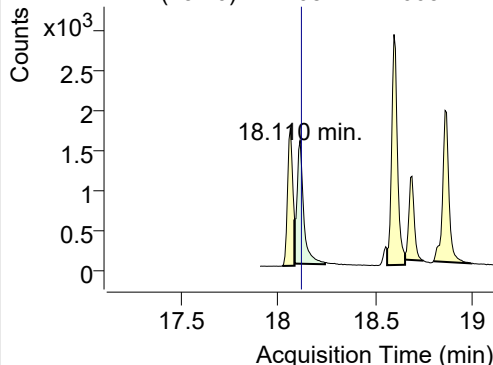


+ SIM (18.018-18.082 min, 9 scans) (**) 22120

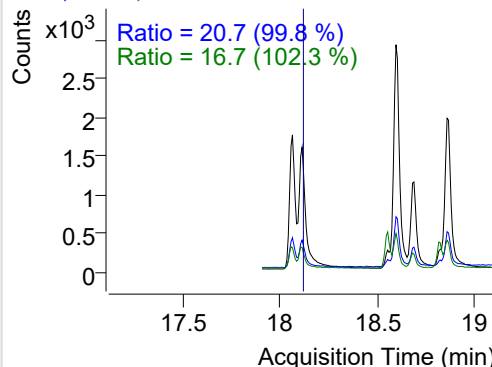


Benzo(k)fluoranthene

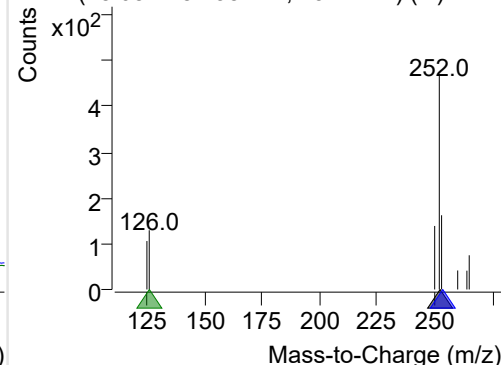
+ Selected Ion (252.0) 221208-PAHs-003.D



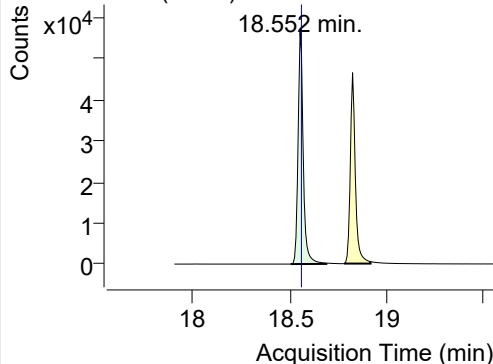
252.0, 253.0, 126.0



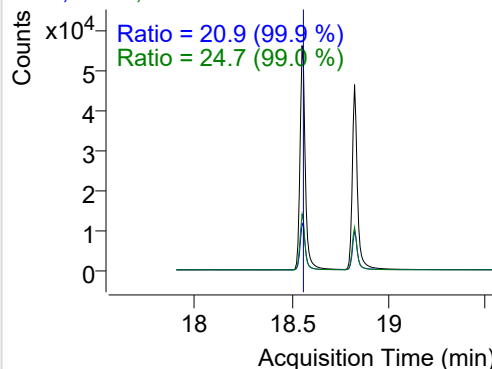
+ SIM (18.082-18.238 min, 23 scans) (**) 2212

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

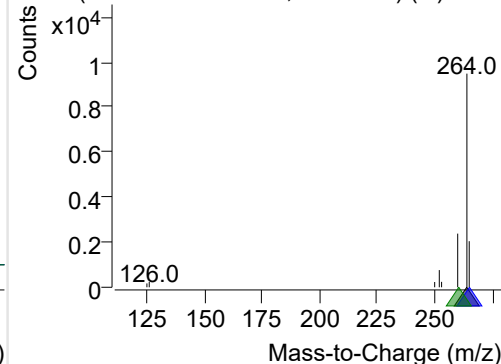
+ Selected Ion (264.0) 221208-PAHs-003.D



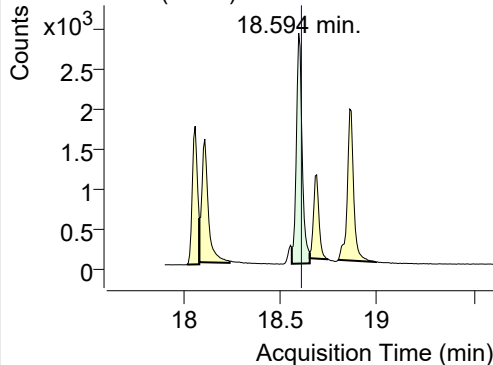
264.0, 265.0, 260.0



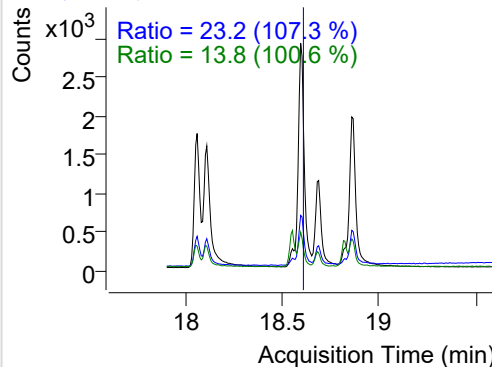
+ SIM (18.503-18.687 min, 26 scans) (**) 2212

**Benzo(e)pyrene**

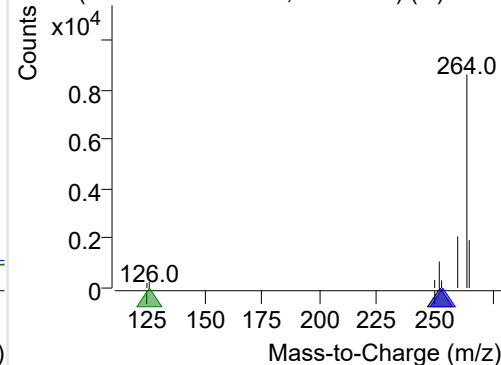
+ Selected Ion (252.0) 221208-PAHs-003.D



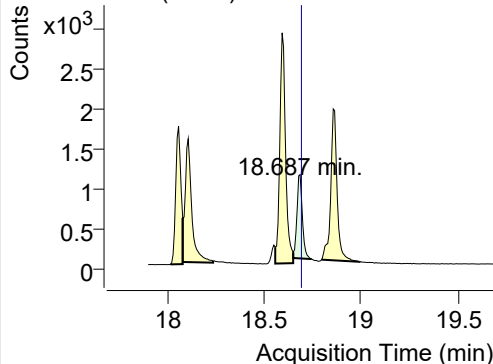
252.0, 253.0, 126.0



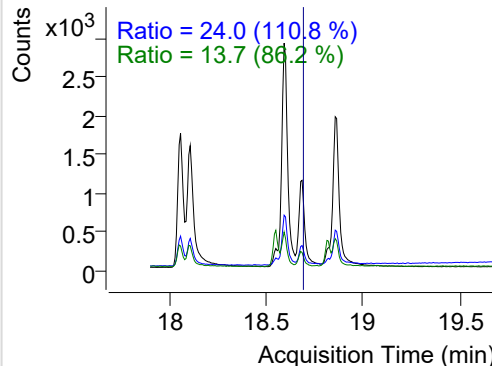
+ SIM (18.559-18.651 min, 14 scans) (**) 2212

**Benzo(a)pyrene**

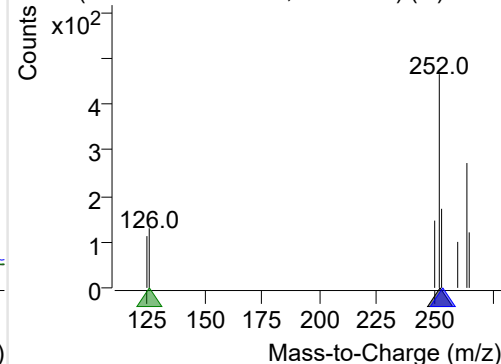
+ Selected Ion (252.0) 221208-PAHs-003.D



252.0, 253.0, 126.0

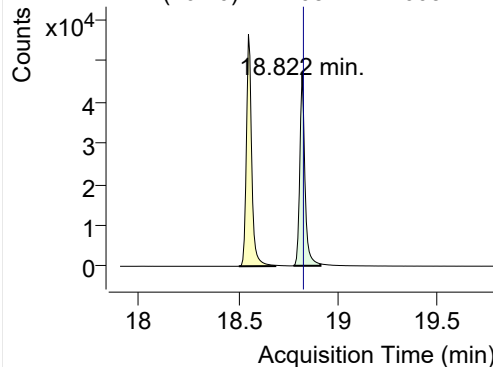


+ SIM (18.651-18.746 min, 14 scans) (**) 2212

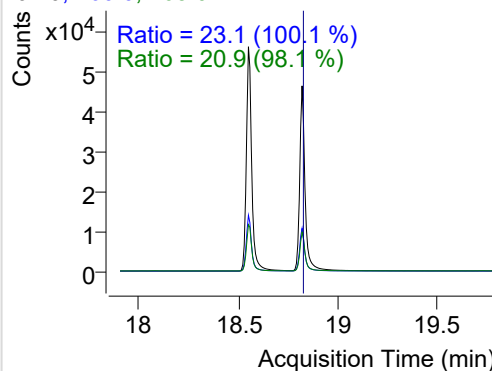


IS-D12-Perylene

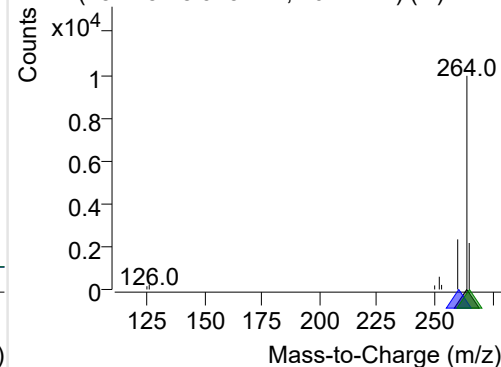
+ Selected Ion (264.0) 221208-PAHs-003.D



264.0, 260.0, 265.0

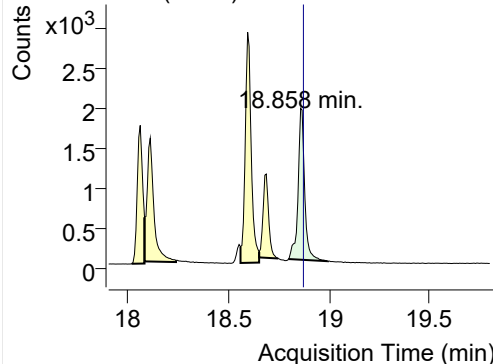


+ SIM (18.778-18.915 min, 20 scans) (**) 2212

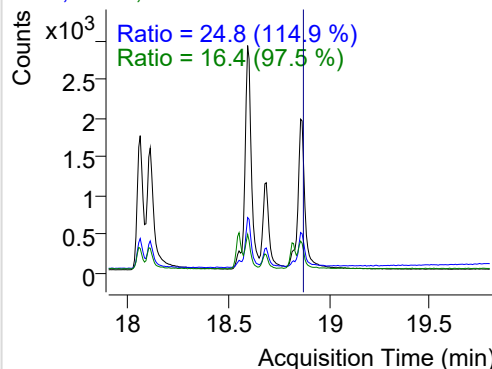


Perylene

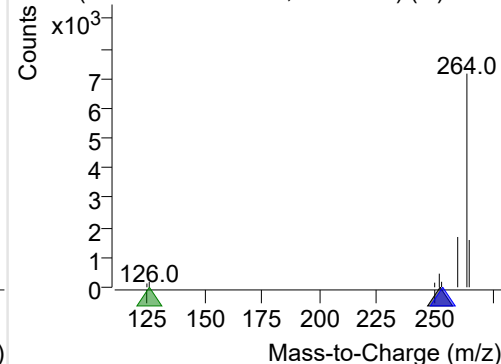
+ Selected Ion (252.0) 221208-PAHs-003.D



252.0, 253.0, 126.0

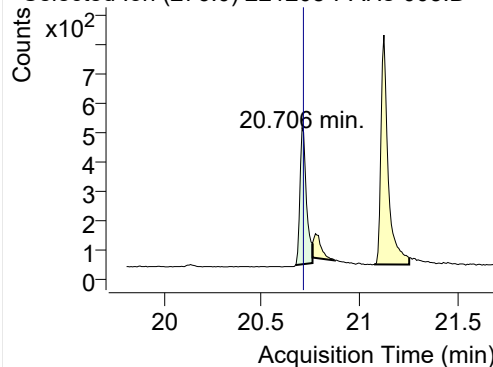


+ SIM (18.797-18.993 min, 28 scans) (**) 2212

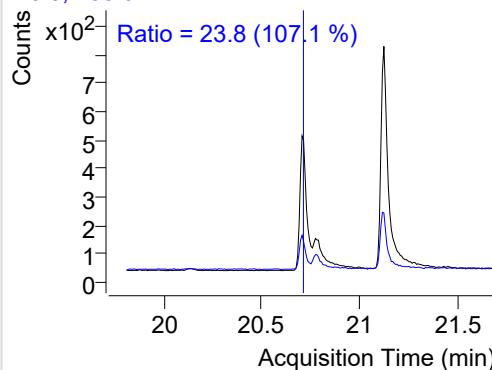


Indeno(1,2,3-c,d)pyrene

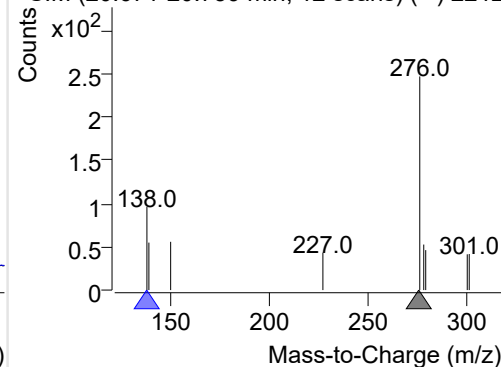
+ Selected Ion (276.0) 221208-PAHs-003.D



276.0, 138.0

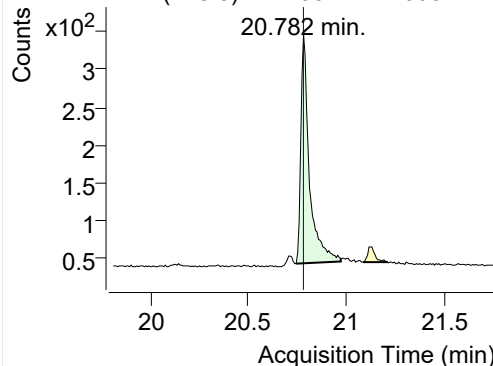


+ SIM (20.671-20.759 min, 12 scans) (**) 2212

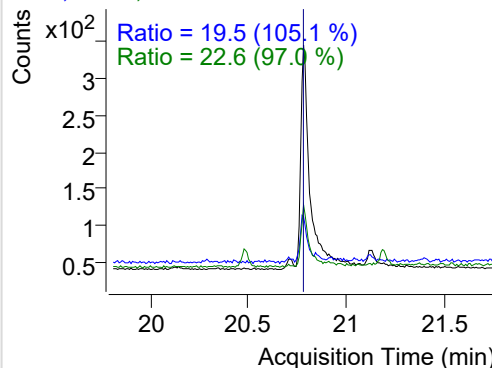


Dibenz(a,h)anthracene

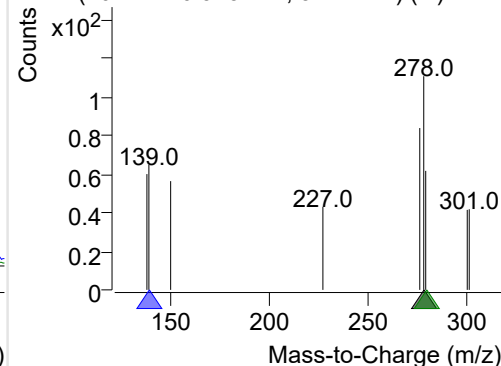
+ Selected Ion (278.0) 221208-PAHs-003.D



278.0, 139.0, 279.0

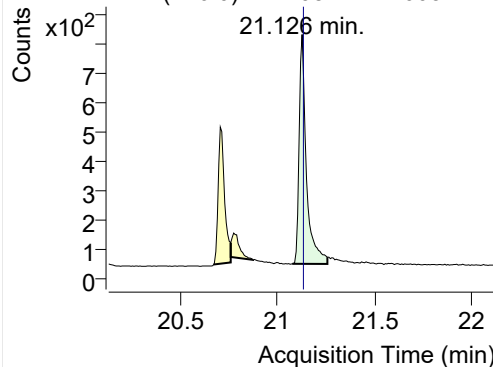


+ SIM (20.744-20.973 min, 31 scans) (**) 2212

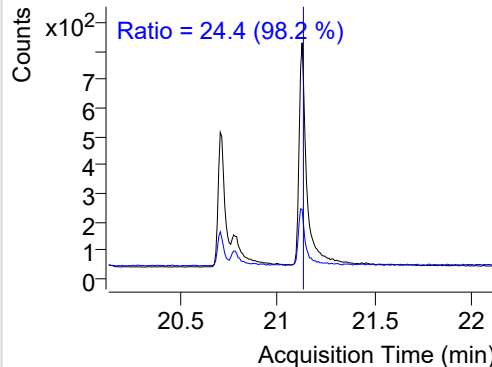


Benzo(g,h,i)perylene

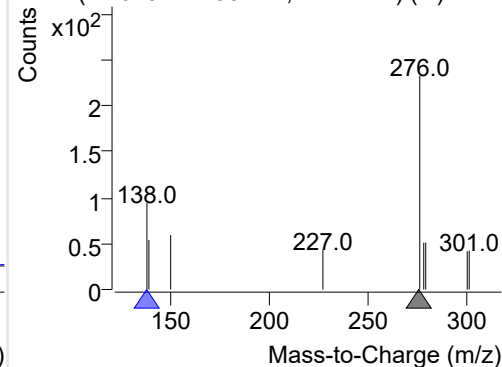
+ Selected Ion (276.0) 221208-PAHs-003.D



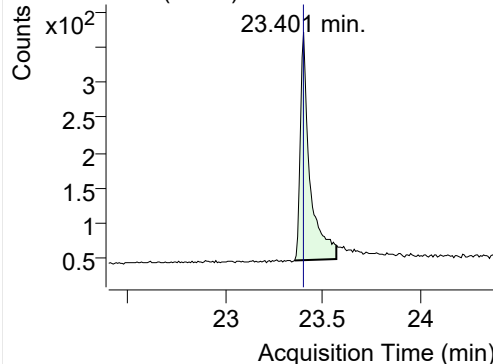
276.0, 138.0



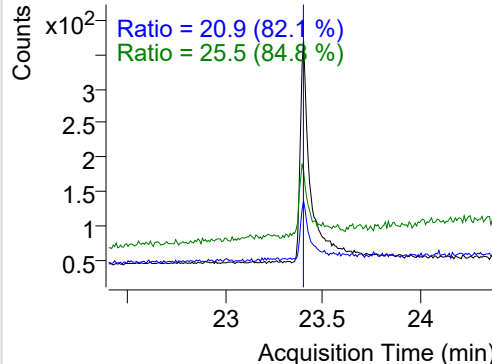
+ SIM (21.075-21.255 min, 24 scans) (**) 2212

**Coronene**

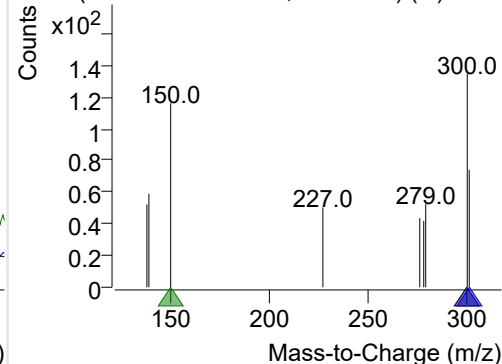
+ Selected Ion (300.0) 221208-PAHs-003.D



300.0, 301.0, 150.0



+ SIM (23.355-23.569 min, 28 scans) (**) 2212



Quantitative Analysis Sample Based Report

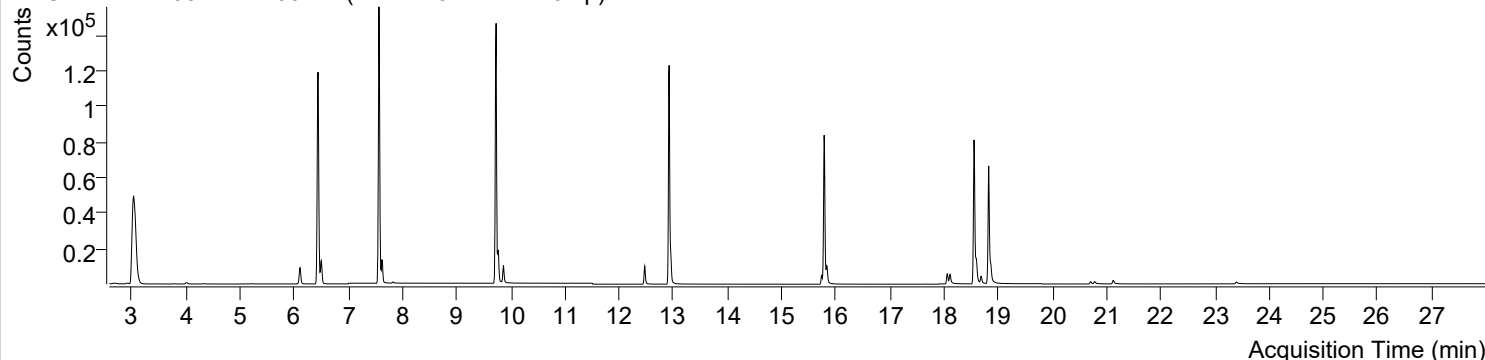


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-08 오후 7:08:53	Data File	221208-PAHs-004.D
Type	Sample	Name	PAHs-19mix-STD-0.1p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

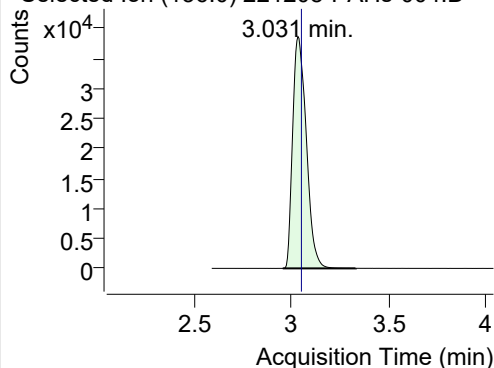
+ TIC SIM 221208-PAHs-004.D (PAHs-19mix-STD-0.1p)



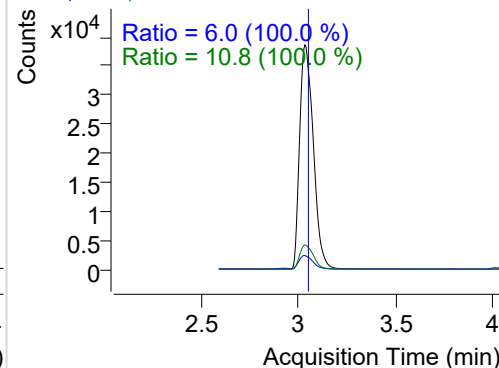
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	188484	38602.67	ND ng/ml	10.8
Naphthalene	3.058	128.0	21891	4397.81	ND ng/ml	12.3
Acenaphthylene	6.108	152.0	14750	6814.29	ND ng/ml	19.0
IS-D10-Acenaphthene	6.439	164.0	114100	57961.43	ND ng/ml	92.8
Acenaphthene	6.498	154.0	9349	4545.92	ND ng/ml	103.9
LSS-D10-Fluorene	7.564	176.0	119628	71051.87	ND ng/ml	89.5
Fluorene	7.627	166.0	11634	6114.50	ND ng/ml	90.6
IS-D10-Phenanthrene	9.727	188.0	190770	119179.7	ND ng/ml	14.9
Phenanthrene	9.769	178.0	18185	11201.95	ND ng/ml	18.5
Anthracene	9.864	178.0	11529	6627.42	ND ng/ml	18.3
Fluoranthene	12.472	202.0	13648	7747.91	ND ng/ml	16.8
LSS-D10-Pyrene	12.922	212.0	145201	91222.06	ND ng/ml	18.4
Pyrene	12.954	202.0	17647	9639.08	ND ng/ml	19.6
Benz(a)anthracene	15.740	228.0	6845	3456.98	ND ng/ml	24.6
IS-D12-Chrysene	15.784	240.0	111666	62099.49	ND ng/ml	18.8
Chrysene	15.833	228.0	11414	5556.01	ND ng/ml	27.7
Benzo(b)fluoranthene	18.060	252.0	6235	3296.37	ND ng/ml	21.3
Benzo(k)fluoranthene	18.110	252.0	7414	3100.12	ND ng/ml	20.2
SS-D12-Benzo(e)pyrene	18.551	264.0	103691	55017.65	ND ng/ml	24.7
Benzo(e)pyrene	18.594	252.0	11360	5518.50	ND ng/ml	21.8
Benzo(a)pyrene	18.680	252.0	4171	2050.93	ND ng/ml	22.7
IS-D12-Perylene	18.822	264.0	81832	45237.22	ND ng/ml	23.3
Perylene	18.865	252.0	8175	3622.19	ND ng/ml	22.6
Indeno(1,2,3-c,d)pyrene	20.705	276.0	2158	985.91	ND ng/ml	23.5
Dibenz(a,h)anthracene	20.782	278.0	1939	678.13	ND ng/ml	23.3
Benzo(g,h,i)perylene	21.125	276.0	4007	1517.17	ND ng/ml	25.2
Coronene	23.393	300.0	2230	621.65	ND ng/ml	28.7

IS-D8-Naphthalene

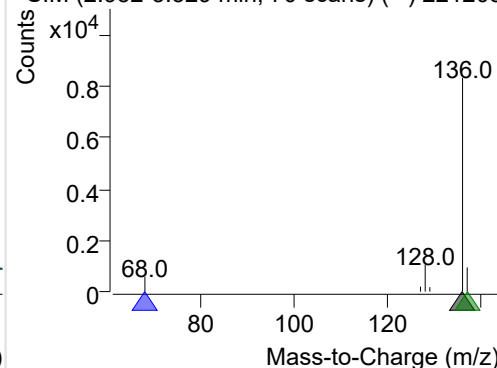
+ Selected Ion (136.0) 221208-PAHs-004.D



136.0, 68.0, 137.0

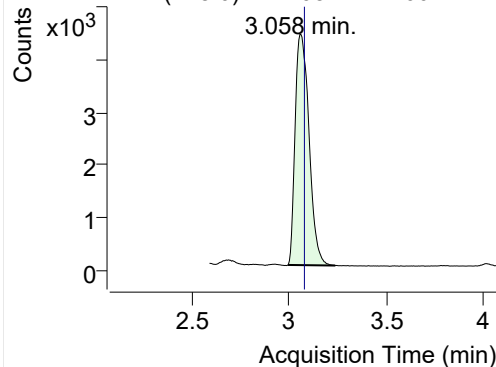


+ SIM (2.952-3.329 min, 70 scans) (**) 221208

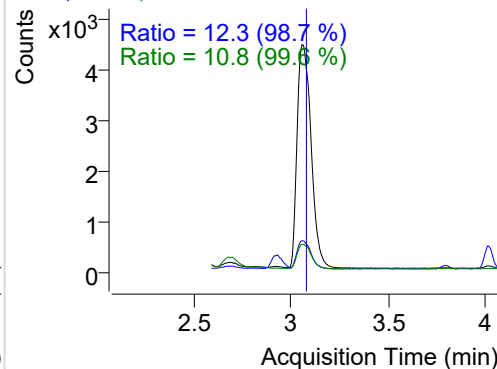


Naphthalene

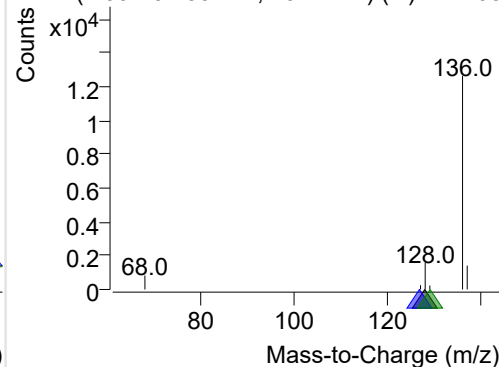
+ Selected Ion (128.0) 221208-PAHs-004.D



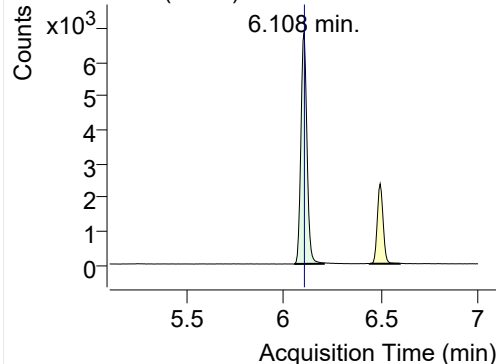
128.0, 127.0, 129.0



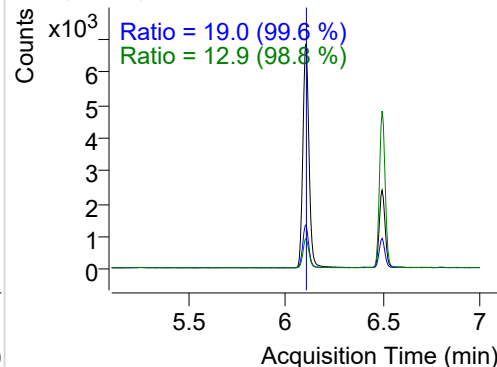
+ SIM (2.991-3.235 min, 45 scans) (**) 221208

**Acenaphthylene**

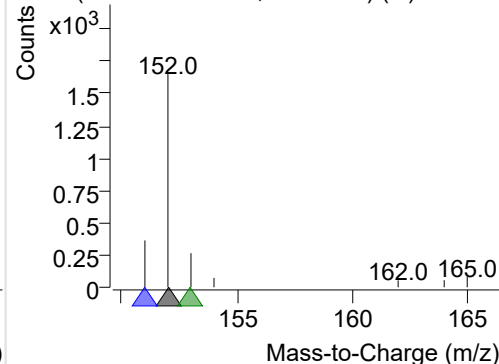
+ Selected Ion (152.0) 221208-PAHs-004.D



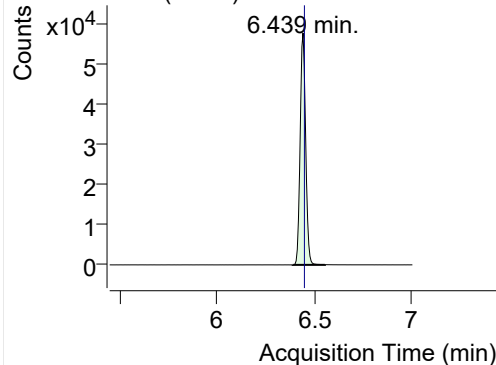
152.0, 151.0, 153.0



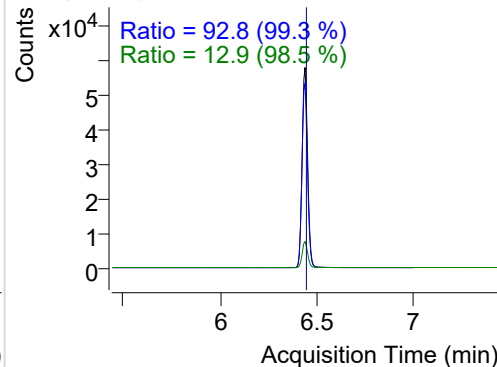
+ SIM (6.056-6.208 min, 26 scans) (**) 221208

**IS-D10-Acenaphthene**

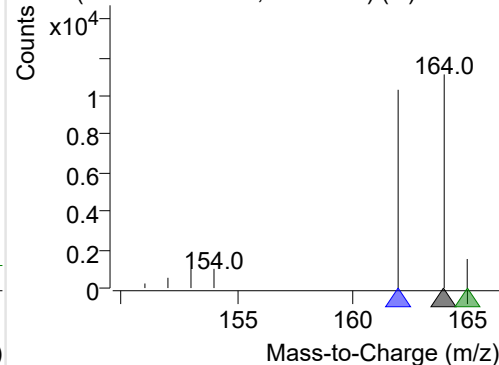
+ Selected Ion (164.0) 221208-PAHs-004.D



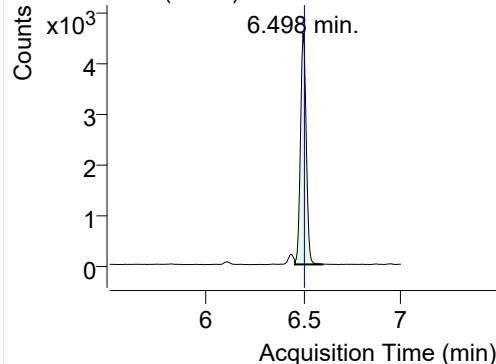
164.0, 162.0, 165.0



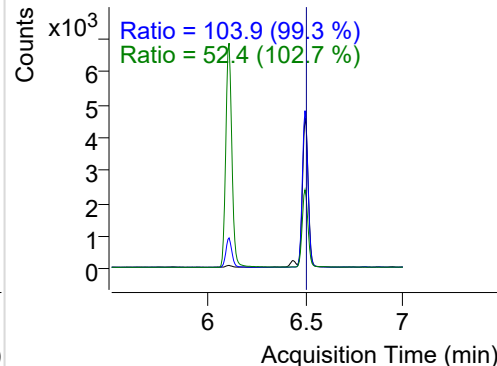
+ SIM (6.386-6.552 min, 29 scans) (**) 221208

**Acenaphthene**

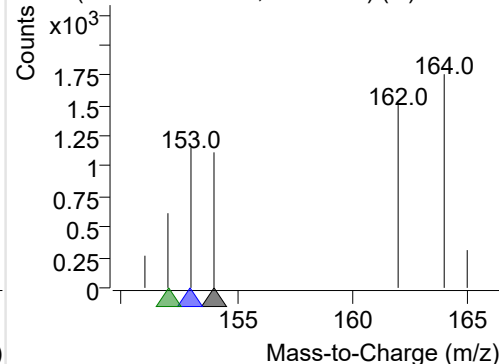
+ Selected Ion (154.0) 221208-PAHs-004.D



154.0, 153.0, 152.0

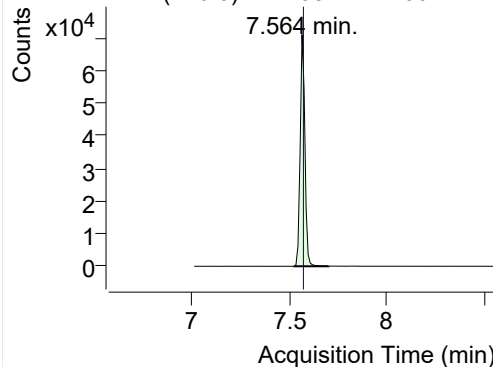


+ SIM (6.457-6.599 min, 25 scans) (**) 221208

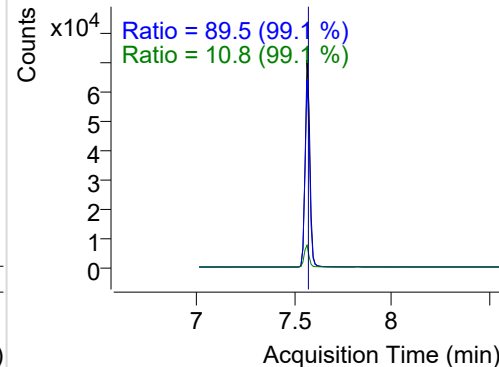


LSS-D10-Fluorene

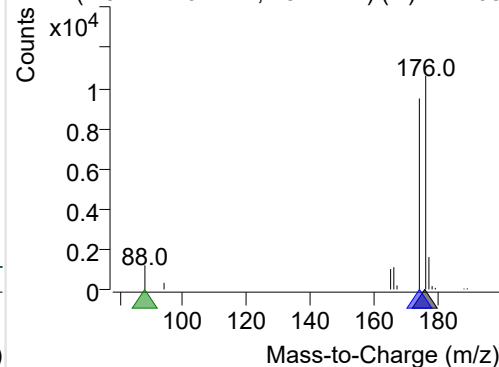
+ Selected Ion (176.0) 221208-PAHs-004.D



176.0, 174.0, 88.0

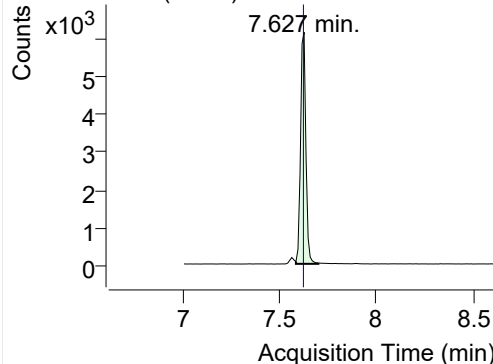


+ SIM (7.522-7.701 min, 18 scans) (**) 221208

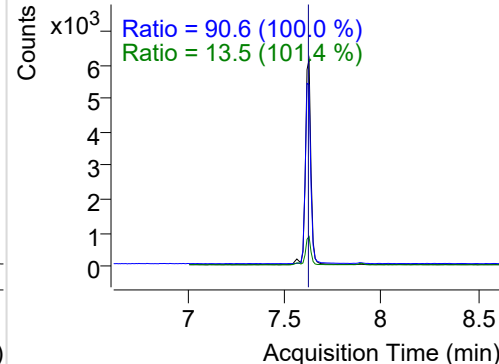


Fluorene

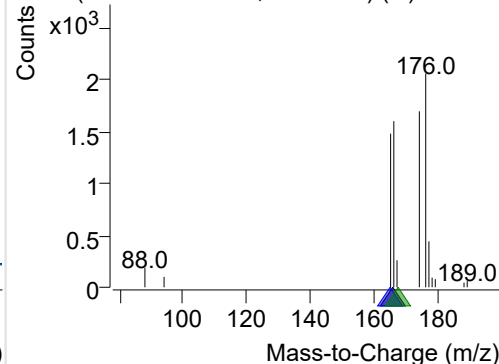
+ Selected Ion (166.0) 221208-PAHs-004.D



166.0, 165.0, 167.0

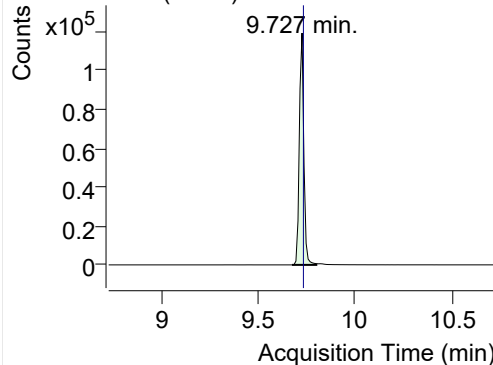


+ SIM (7.585-7.701 min, 12 scans) (**) 221208

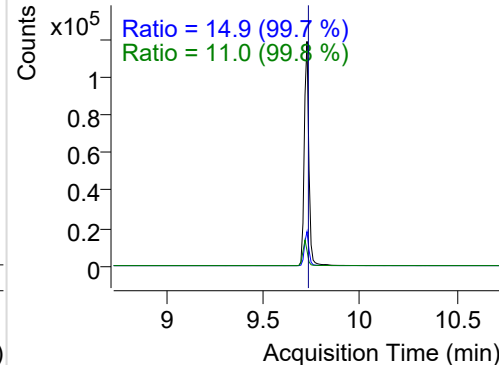


IS-D10-Phenanthrene

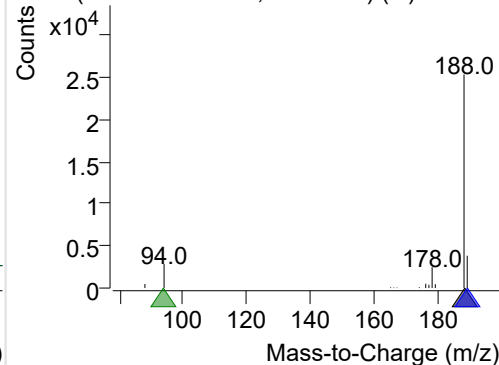
+ Selected Ion (188.0) 221208-PAHs-004.D



188.0, 189.0, 94.0

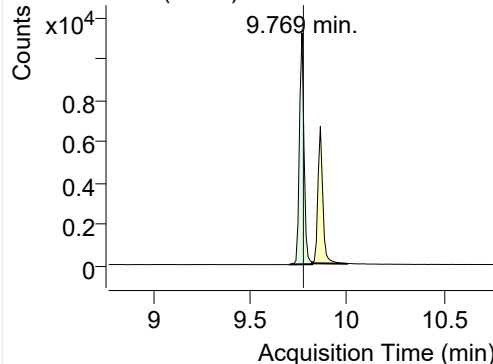


+ SIM (9.675-9.801 min, 12 scans) (**) 221208

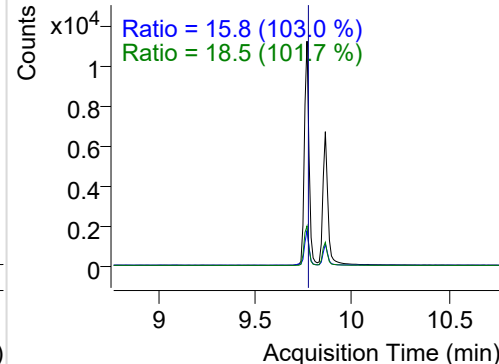


Phenanthrene

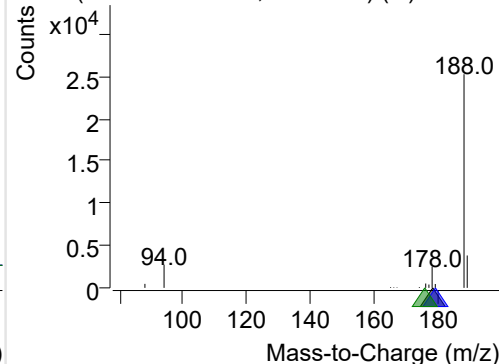
+ Selected Ion (178.0) 221208-PAHs-004.D



178.0, 179.0, 176.0

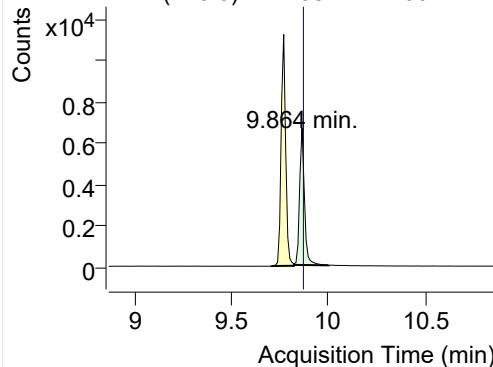


+ SIM (9.706-9.822 min, 12 scans) (**) 221208

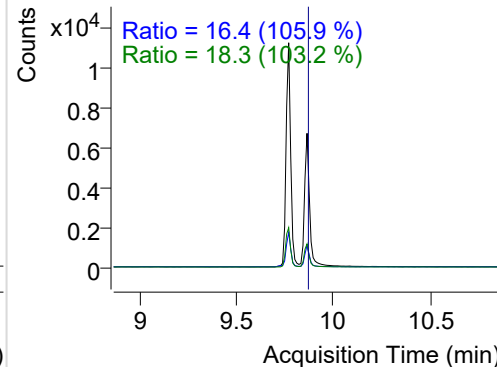


Anthracene

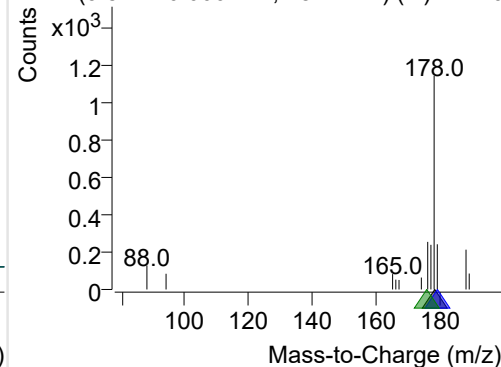
+ Selected Ion (178.0) 221208-PAHs-004.D



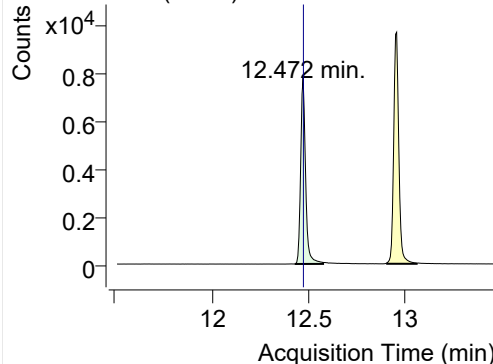
178.0, 179.0, 176.0



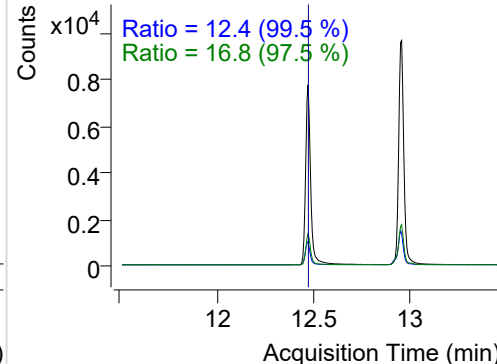
+ SIM (9.822-10.000 min, 18 scans) (**) 22120

**Fluoranthene**

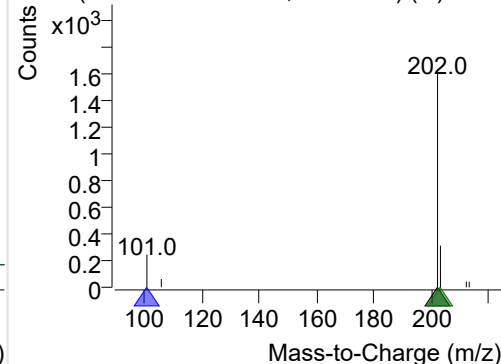
+ Selected Ion (202.0) 221208-PAHs-004.D



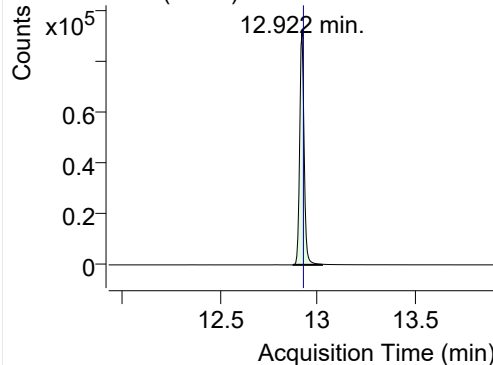
202.0, 101.0, 203.0



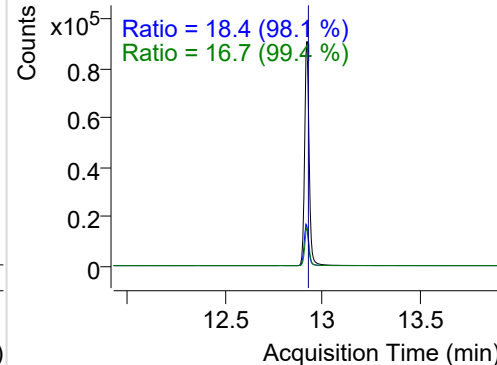
+ SIM (12.429-12.575 min, 27 scans) (**) 2212

**LSS-D10-Pyrene**

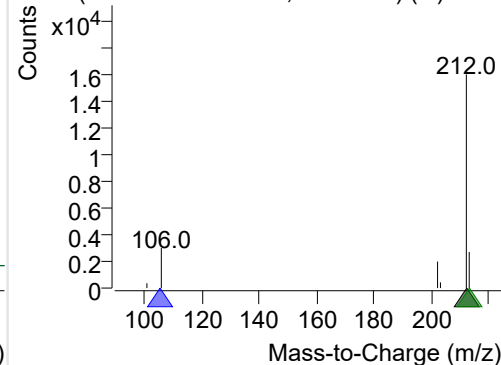
+ Selected Ion (212.0) 221208-PAHs-004.D



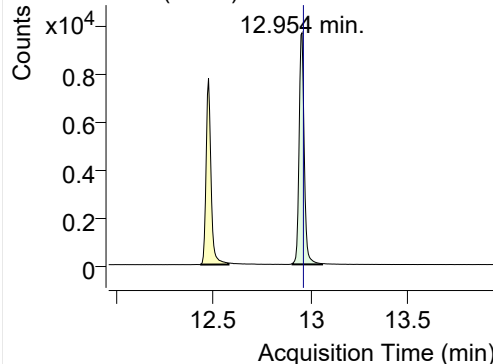
212.0, 106.0, 213.0



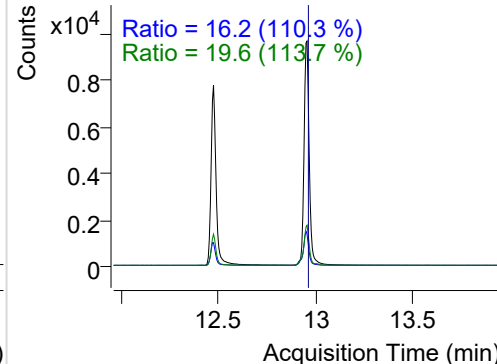
+ SIM (12.873-13.025 min, 28 scans) (**) 2212

**Pyrene**

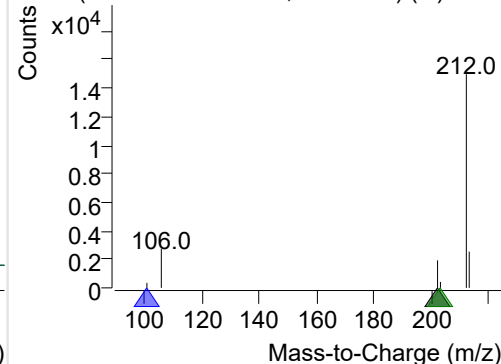
+ Selected Ion (202.0) 221208-PAHs-004.D



202.0, 101.0, 203.0

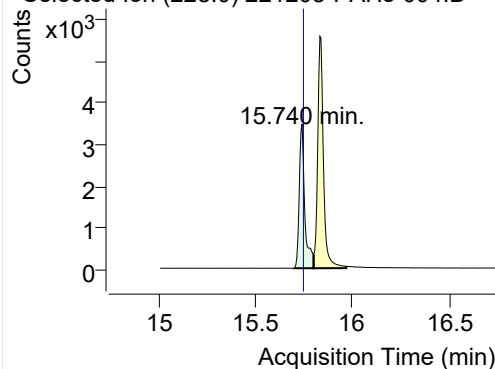


+ SIM (12.905-13.057 min, 29 scans) (**) 2212

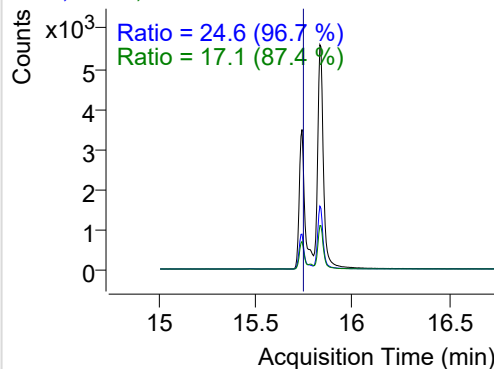


Benz(a)anthracene

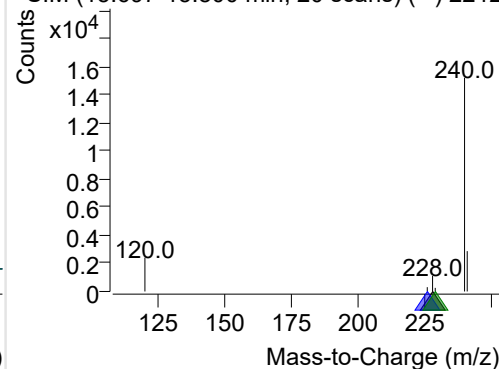
+ Selected Ion (228.0) 221208-PAHs-004.D



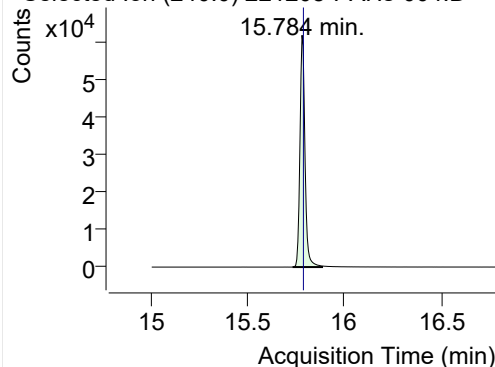
228.0, 226.0, 229.0



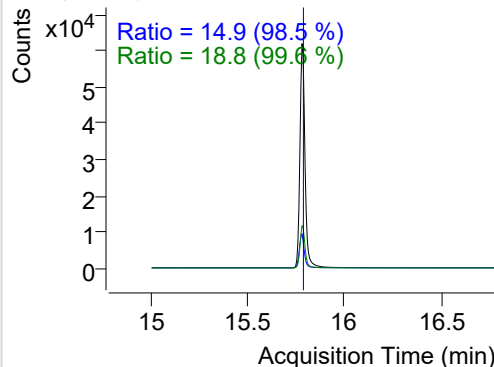
+ SIM (15.697-15.800 min, 20 scans) (**) 2212

**IS-D12-Chrysene**

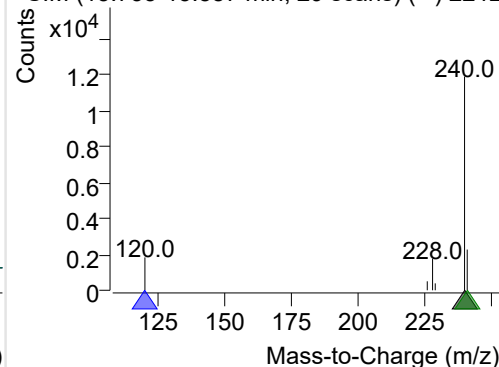
+ Selected Ion (240.0) 221208-PAHs-004.D



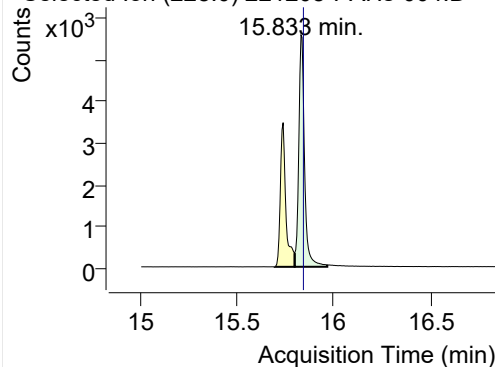
240.0, 120.0, 241.0



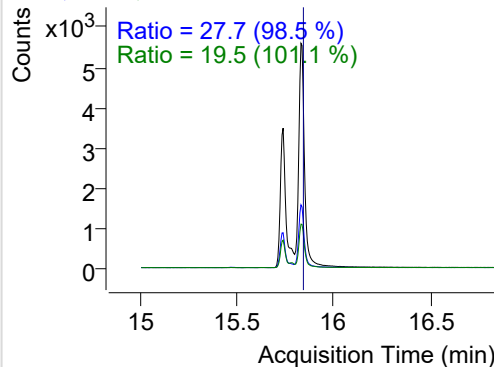
+ SIM (15.735-15.887 min, 29 scans) (**) 2212

**Chrysene**

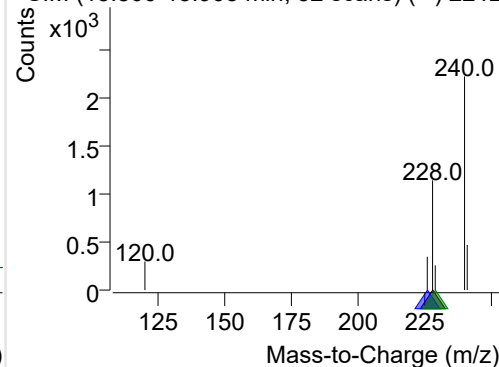
+ Selected Ion (228.0) 221208-PAHs-004.D



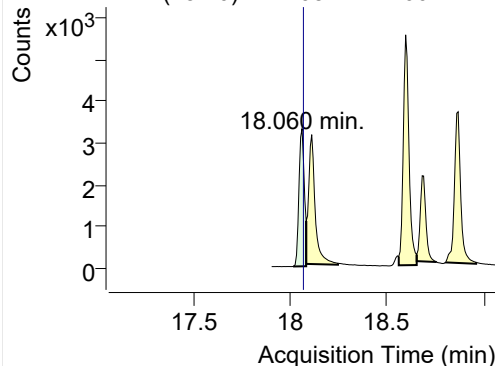
228.0, 226.0, 229.0



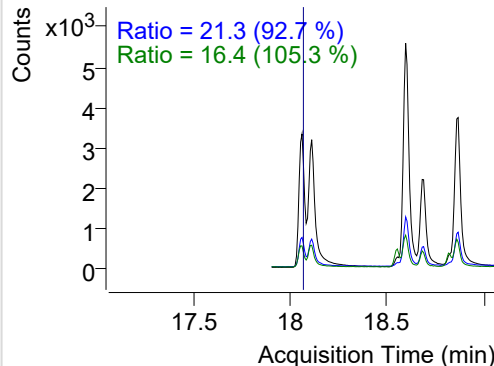
+ SIM (15.800-15.968 min, 32 scans) (**) 2212

**Benzo(b)fluoranthene**

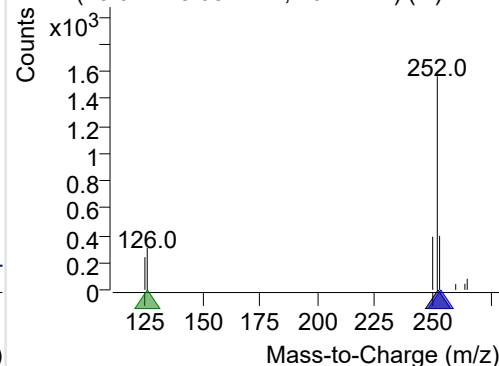
+ Selected Ion (252.0) 221208-PAHs-004.D



252.0, 253.0, 126.0

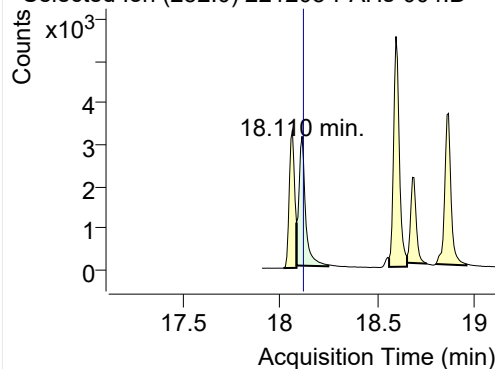


+ SIM (18.014-18.082 min, 10 scans) (**) 2212

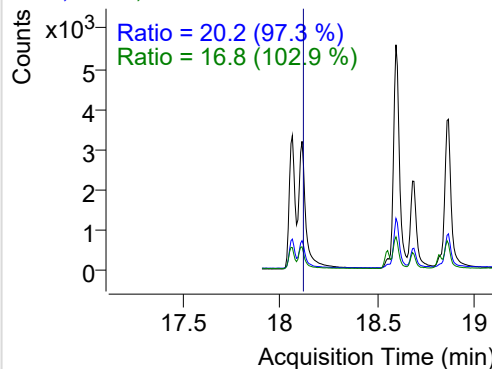


Benzo(k)fluoranthene

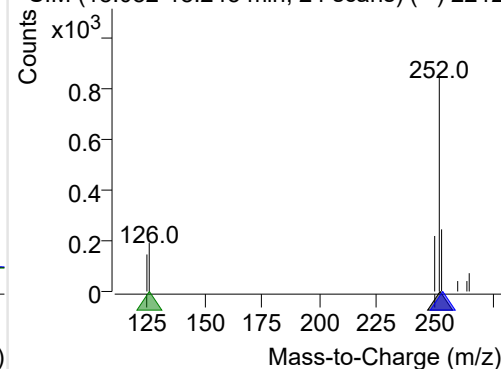
+ Selected Ion (252.0) 221208-PAHs-004.D



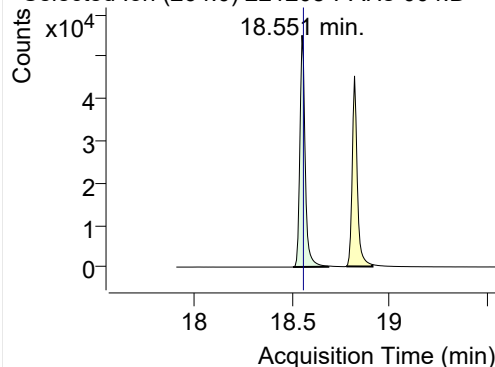
252.0, 253.0, 126.0



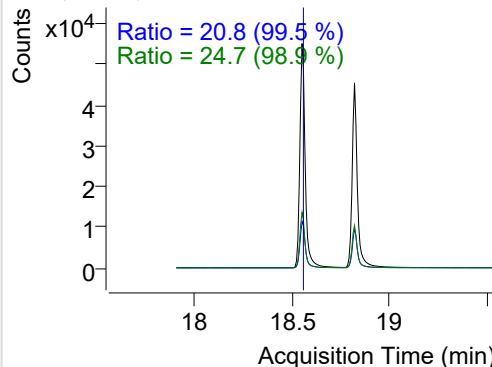
+ SIM (18.082-18.245 min, 24 scans) (**) 2212

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

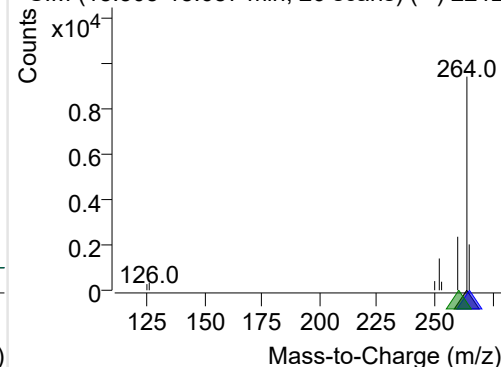
+ Selected Ion (264.0) 221208-PAHs-004.D



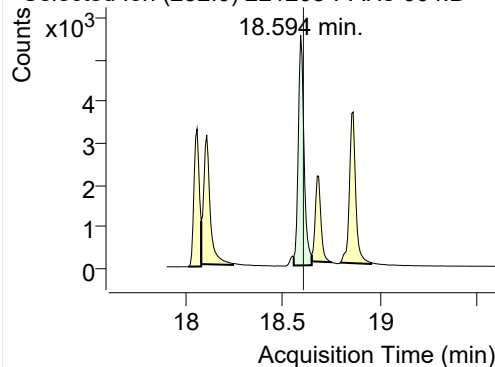
264.0, 265.0, 260.0



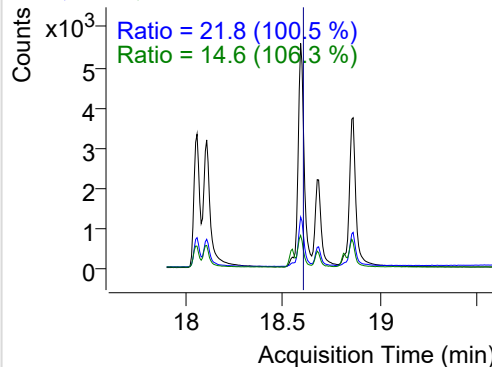
+ SIM (18.505-18.687 min, 26 scans) (**) 2212

**Benzo(e)pyrene**

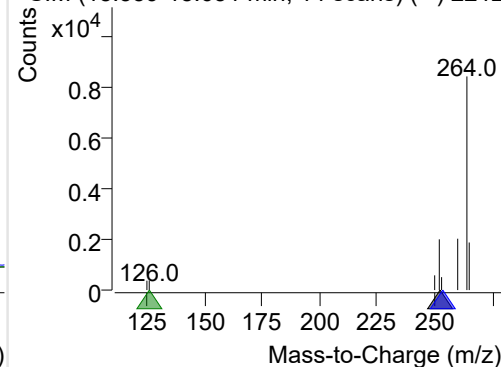
+ Selected Ion (252.0) 221208-PAHs-004.D



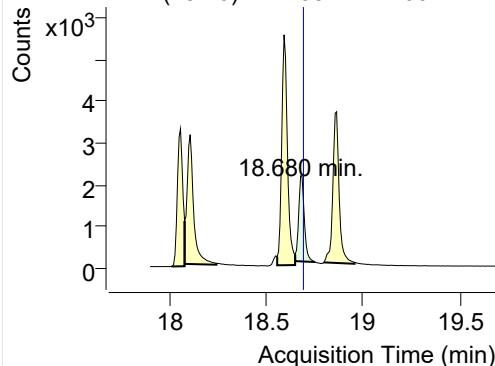
252.0, 253.0, 126.0



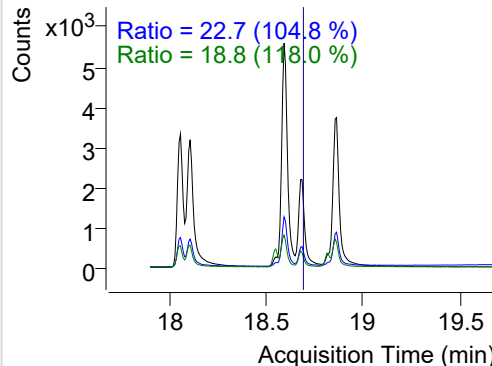
+ SIM (18.559-18.651 min, 14 scans) (**) 2212

**Benzo(a)pyrene**

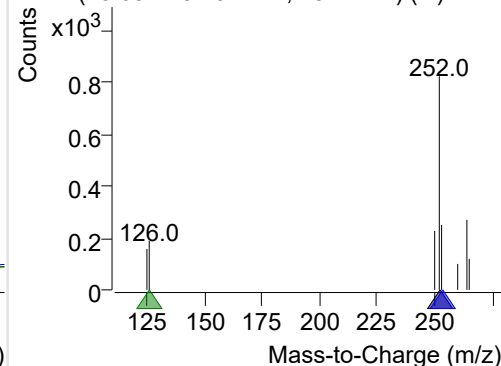
+ Selected Ion (252.0) 221208-PAHs-004.D



252.0, 253.0, 126.0

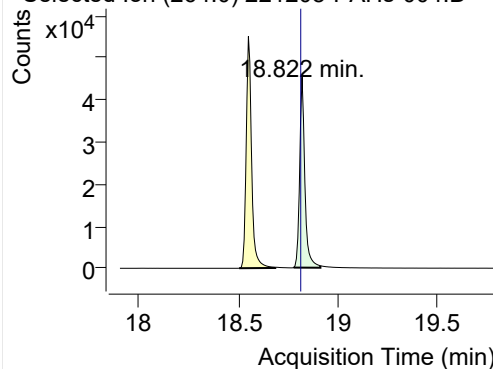


+ SIM (18.651-18.754 min, 15 scans) (**) 2212

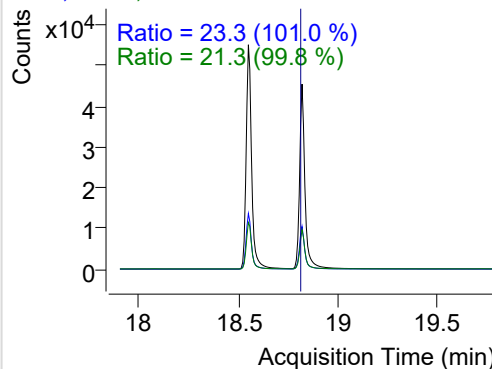


IS-D12-Perylene

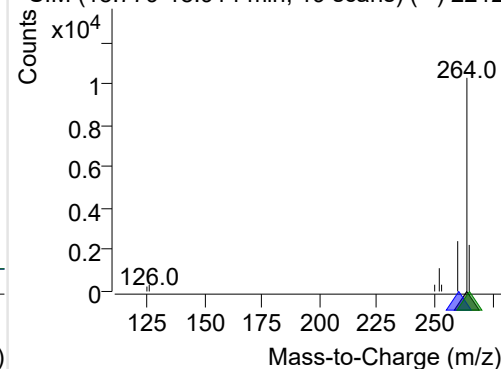
+ Selected Ion (264.0) 221208-PAHs-004.D



264.0, 260.0, 265.0

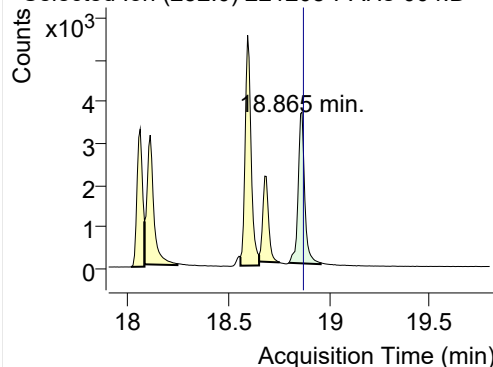


+ SIM (18.779-18.914 min, 19 scans) (**) 2212

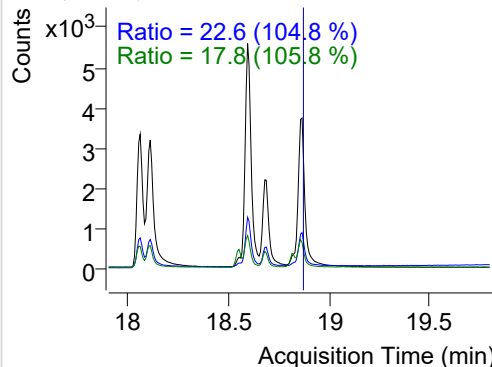


Perylene

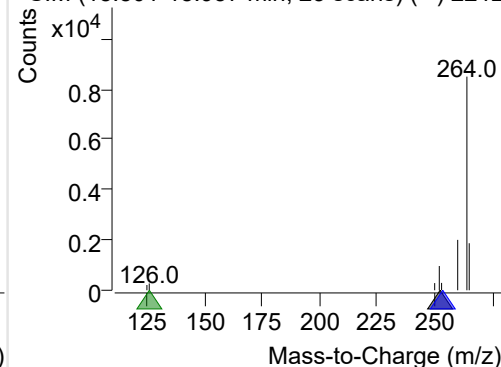
+ Selected Ion (252.0) 221208-PAHs-004.D



252.0, 253.0, 126.0

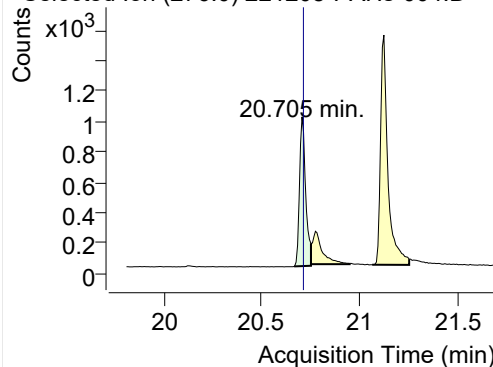


+ SIM (18.801-18.957 min, 23 scans) (**) 2212

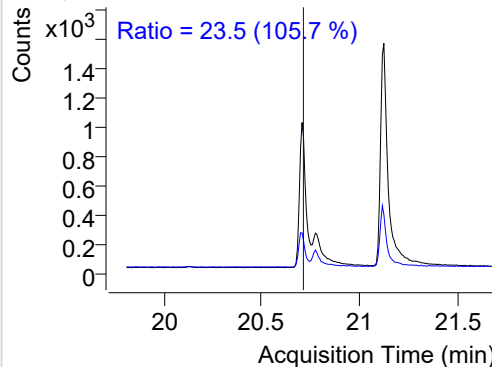


Indeno(1,2,3-c,d)pyrene

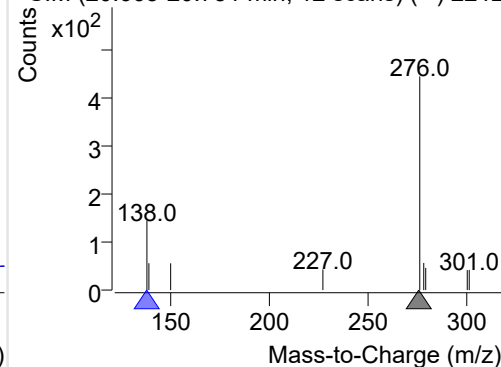
+ Selected Ion (276.0) 221208-PAHs-004.D



276.0, 138.0

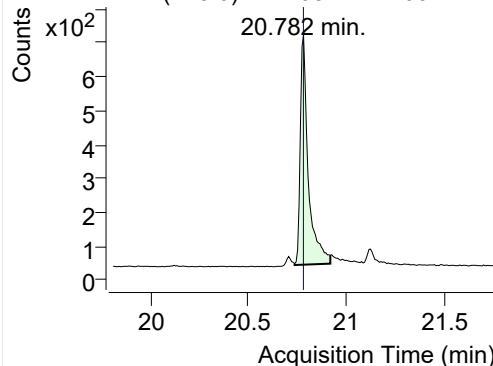


+ SIM (20.665-20.751 min, 12 scans) (**) 2212

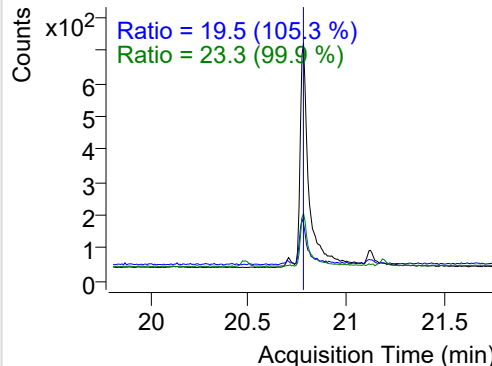


Dibenz(a,h)anthracene

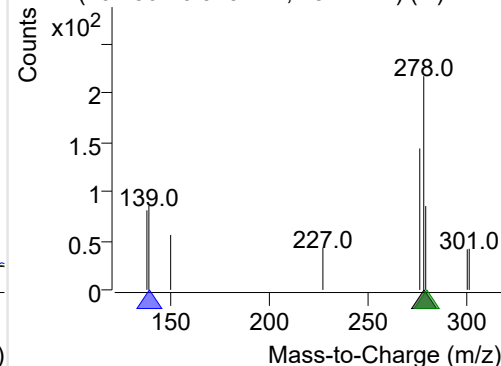
+ Selected Ion (278.0) 221208-PAHs-004.D



278.0, 139.0, 279.0

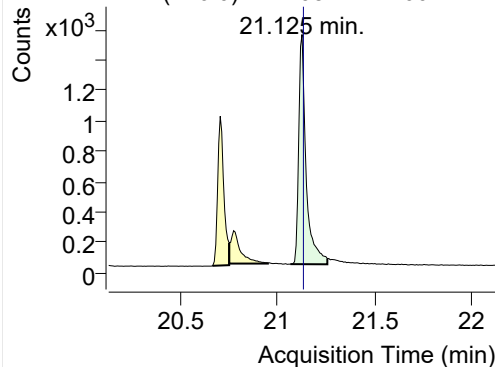


+ SIM (20.736-20.919 min, 25 scans) (**) 2212

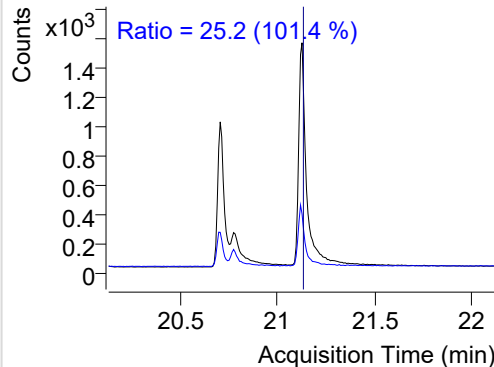


Benzo(g,h,i)perylene

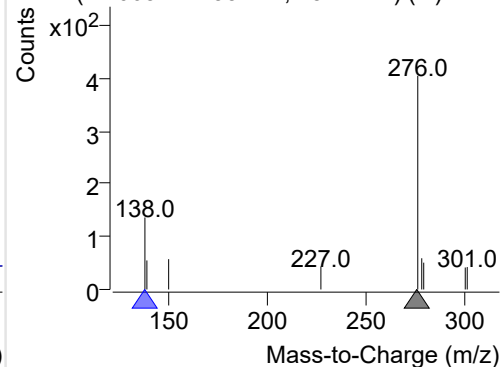
+ Selected Ion (276.0) 221208-PAHs-004.D



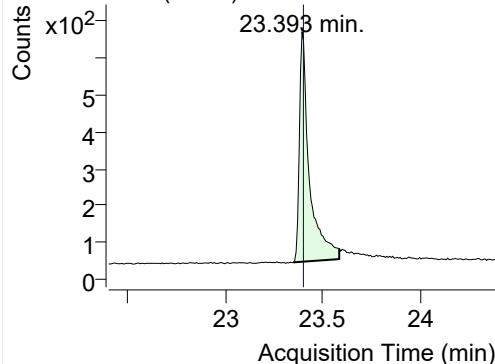
276.0, 138.0



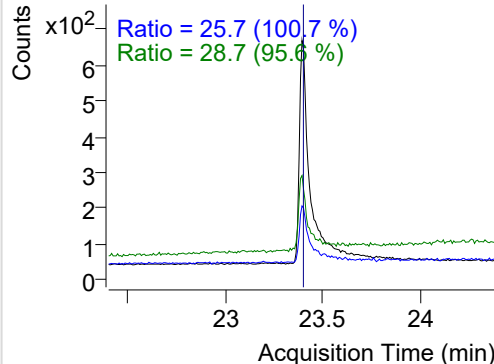
+ SIM (21.065-21.255 min, 25 scans) (**) 2212

**Coronene**

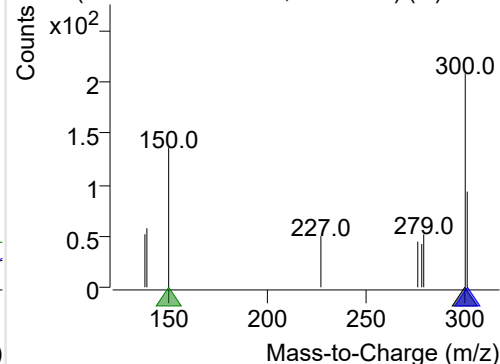
+ Selected Ion (300.0) 221208-PAHs-004.D



300.0, 301.0, 150.0



+ SIM (23.348-23.584 min, 31 scans) (**) 2212



Quantitative Analysis Sample Based Report

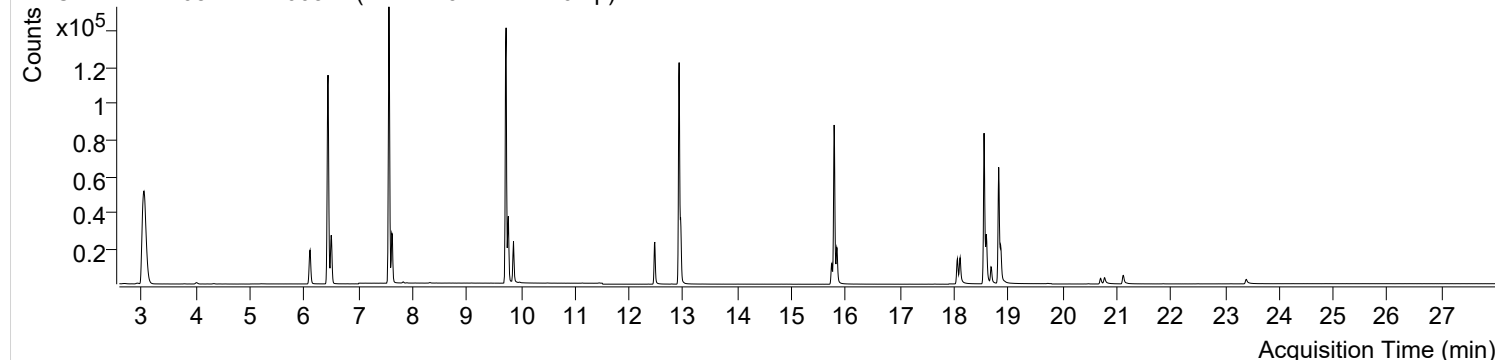


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-08 오후 7:40:05	Data File	221208-PAHs-005.D
Type	Sample	Name	PAHs-19mix-STD-0.2p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

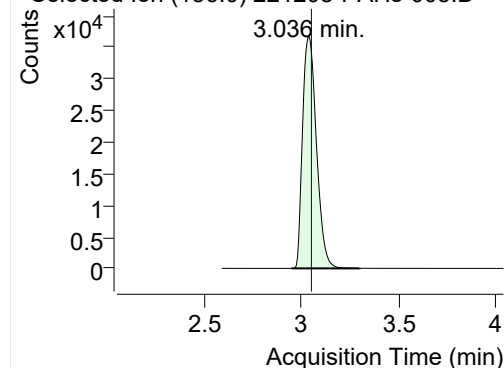
+ TIC SIM 221208-PAHs-005.D (PAHs-19mix-STD-0.2p)



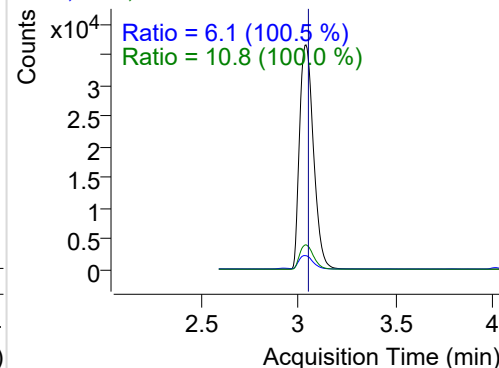
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	182169	36642.70	ND ng/ml	10.8
Naphthalene	3.058	128.0	42247	8773.48	ND ng/ml	12.4
Acenaphthylene	6.108	152.0	30911	14055.91	ND ng/ml	19.0
IS-D10-Acenaphthene	6.439	164.0	110943	56121.97	ND ng/ml	93.1
Acenaphthene	6.499	154.0	19471	9591.12	ND ng/ml	104.7
LSS-D10-Fluorene	7.564	176.0	117859	70223.31	ND ng/ml	90.1
Fluorene	7.627	166.0	24673	12918.43	ND ng/ml	90.8
IS-D10-Phenanthrene	9.728	188.0	189046	115444.2	ND ng/ml	15.1
Phenanthrene	9.770	178.0	38635	23498.90	ND ng/ml	18.4
Anthracene	9.864	178.0	26273	15501.20	ND ng/ml	17.4
Fluoranthene	12.472	202.0	30690	17989.49	ND ng/ml	17.3
LSS-D10-Pyrene	12.922	212.0	146570	90527.52	ND ng/ml	18.5
Pyrene	12.949	202.0	37705	22414.43	ND ng/ml	18.4
Benz(a)anthracene	15.741	228.0	15623	7833.00	ND ng/ml	25.0
IS-D12-Chrysene	15.784	240.0	114821	65218.58	ND ng/ml	18.8
Chrysene	15.833	228.0	24863	12368.30	ND ng/ml	27.9
Benzo(b)fluoranthene	18.060	252.0	15163	8160.40	ND ng/ml	21.7
Benzo(k)fluoranthene	18.110	252.0	20777	8498.01	ND ng/ml	21.9
SS-D12-Benzo(e)pyrene	18.552	264.0	102044	56723.95	ND ng/ml	24.6
Benzo(e)pyrene	18.594	252.0	25160	12773.42	ND ng/ml	21.6
Benzo(a)pyrene	18.680	252.0	10774	5010.72	ND ng/ml	20.1
IS-D12-Perylene	18.822	264.0	84236	43916.50	ND ng/ml	23.2
Perylene	18.858	252.0	18603	8414.57	ND ng/ml	21.6
Indeno(1,2,3-c,d)pyrene	20.706	276.0	5349	2460.72	ND ng/ml	23.1
Dibenz(a,h)anthracene	20.774	278.0	5107	1793.77	ND ng/ml	23.0
Benzo(g,h,i)perylene	21.125	276.0	9812	3678.25	ND ng/ml	24.3
Coronene	23.393	300.0	5277	1552.80	ND ng/ml	29.3

IS-D8-Naphthalene

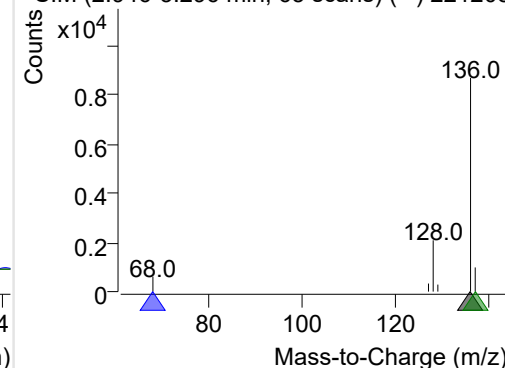
+ Selected Ion (136.0) 221208-PAHs-005.D



136.0, 68.0, 137.0

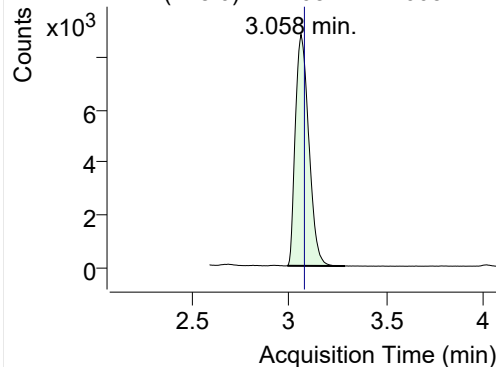


+ SIM (2.946-3.296 min, 65 scans) (**) 221208

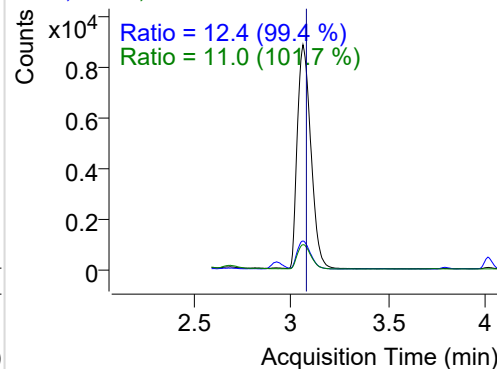


Naphthalene

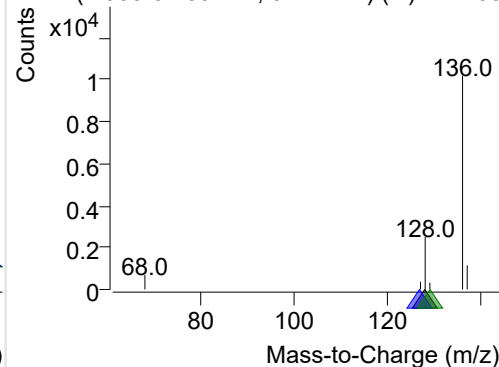
+ Selected Ion (128.0) 221208-PAHs-005.D



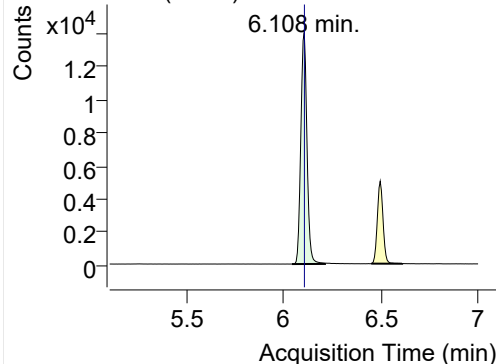
128.0, 127.0, 129.0



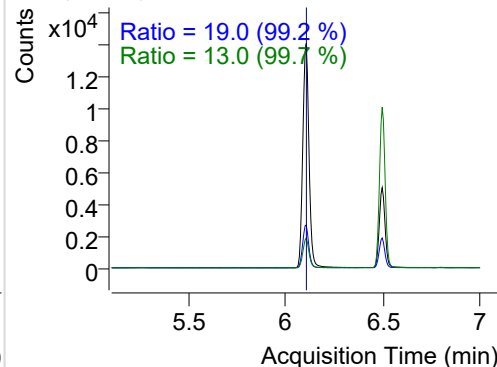
+ SIM (2.988-3.285 min, 54 scans) (**) 221208

**Acenaphthylene**

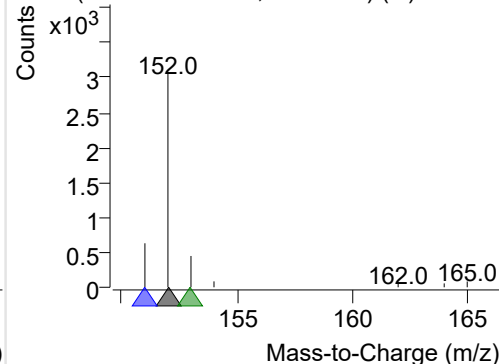
+ Selected Ion (152.0) 221208-PAHs-005.D



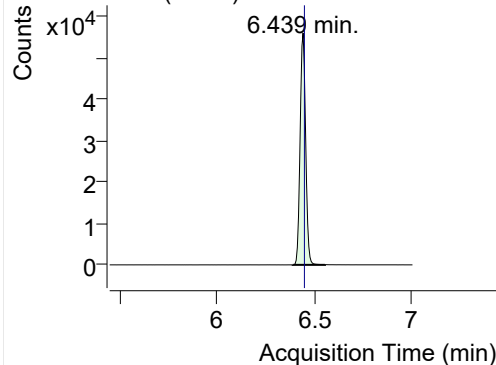
152.0, 151.0, 153.0



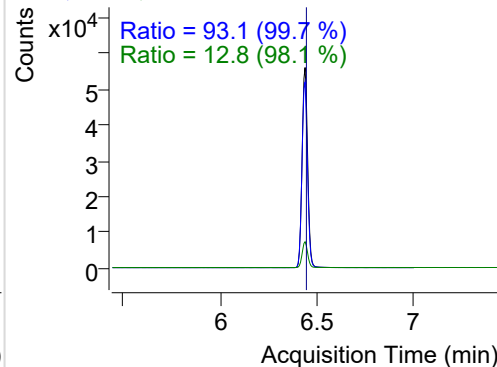
+ SIM (6.045-6.215 min, 29 scans) (**) 221208

**IS-D10-Acenaphthene**

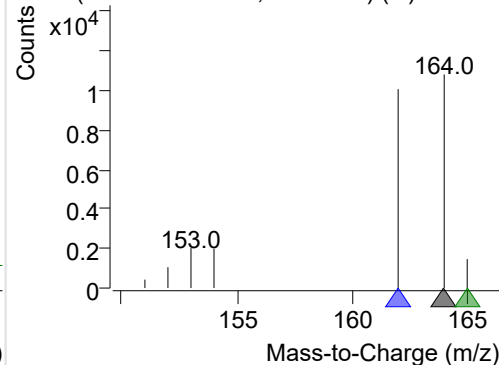
+ Selected Ion (164.0) 221208-PAHs-005.D



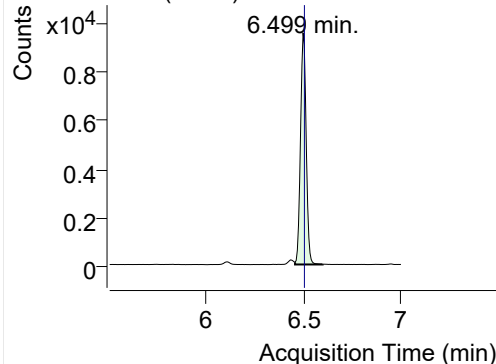
164.0, 162.0, 165.0



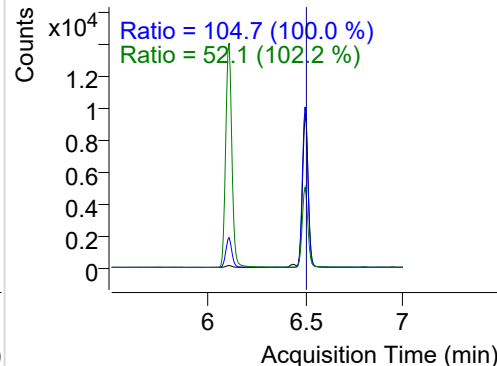
+ SIM (6.386-6.552 min, 29 scans) (**) 221208

**Acenaphthene**

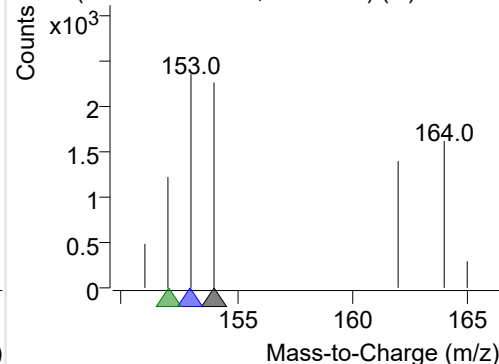
+ Selected Ion (154.0) 221208-PAHs-005.D



154.0, 153.0, 152.0

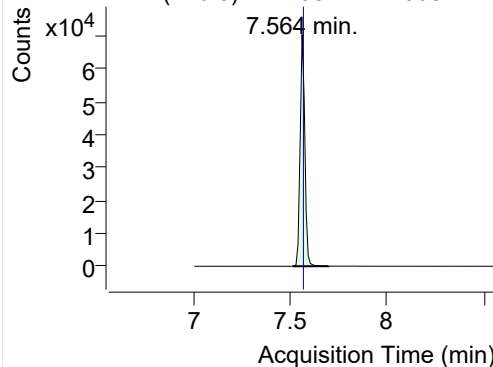


+ SIM (6.457-6.599 min, 25 scans) (**) 221208

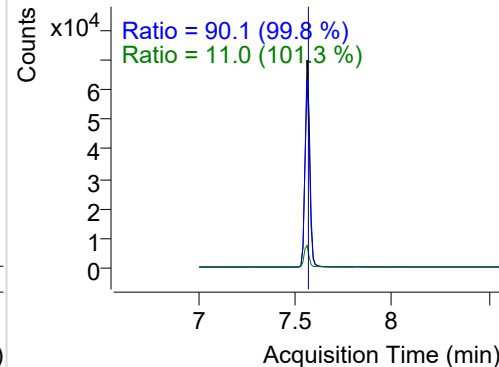


LSS-D10-Fluorene

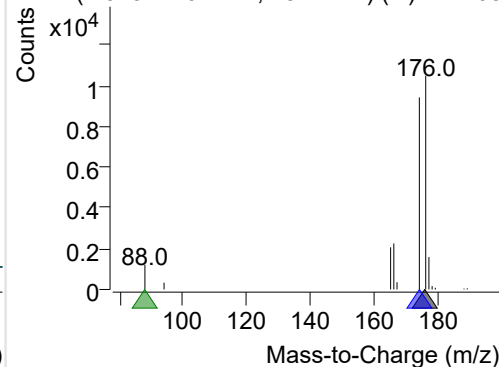
+ Selected Ion (176.0) 221208-PAHs-005.D



176.0, 174.0, 88.0

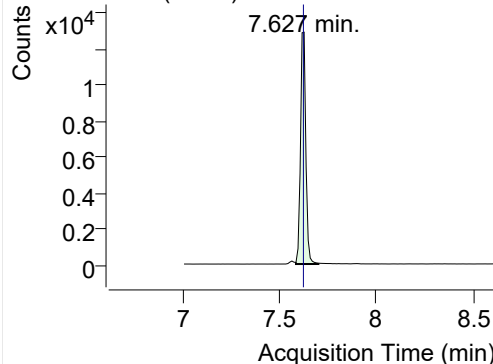


+ SIM (7.515-7.701 min, 18 scans) (**) 221208

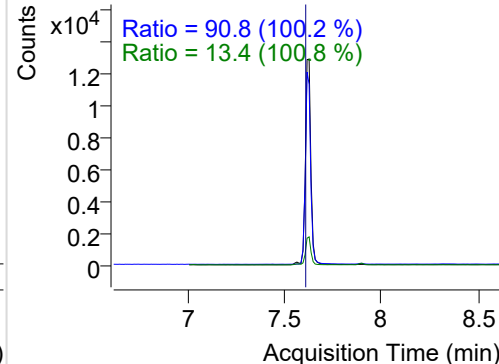


Fluorene

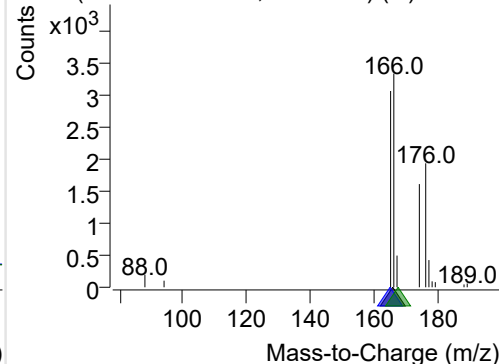
+ Selected Ion (166.0) 221208-PAHs-005.D



166.0, 165.0, 167.0

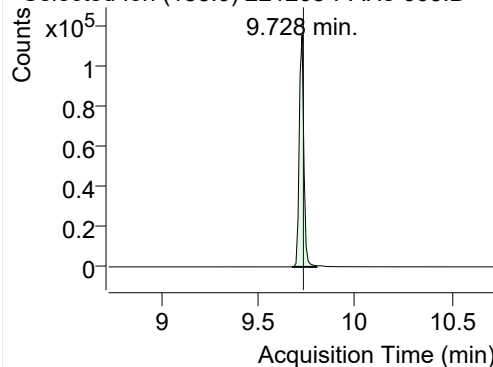


+ SIM (7.585-7.701 min, 12 scans) (**) 221208

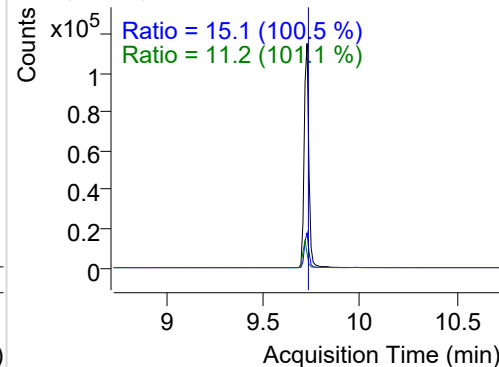


IS-D10-Phenanthrene

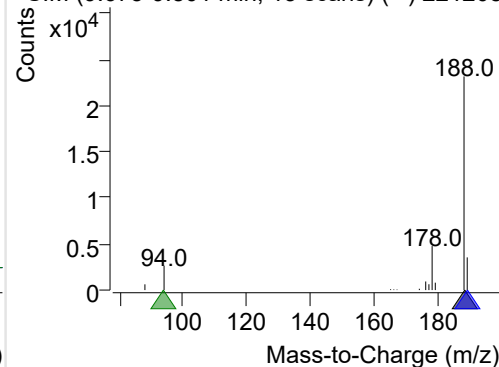
+ Selected Ion (188.0) 221208-PAHs-005.D



188.0, 189.0, 94.0

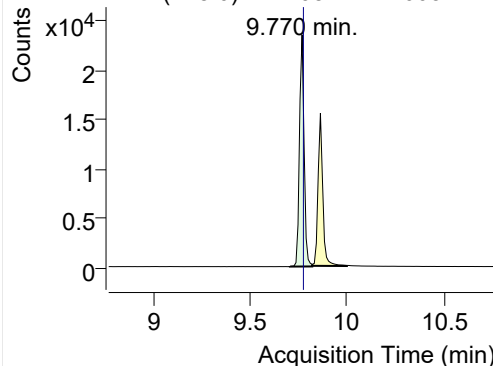


+ SIM (9.675-9.801 min, 13 scans) (**) 221208

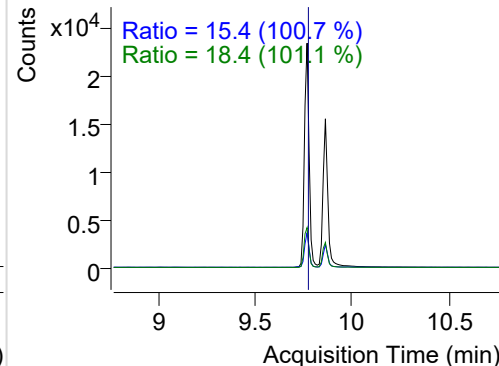


Phenanthrene

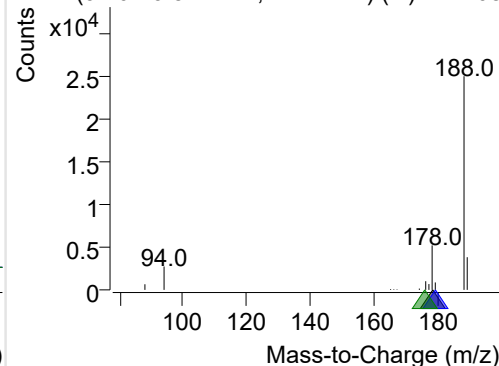
+ Selected Ion (178.0) 221208-PAHs-005.D



178.0, 179.0, 176.0

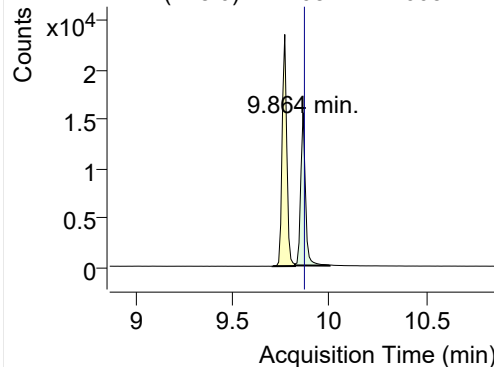


+ SIM (9.707-9.822 min, 12 scans) (**) 221208

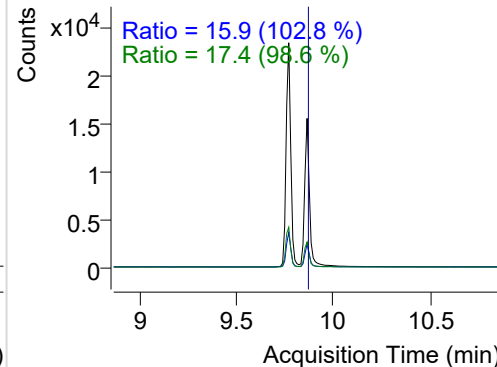


Anthracene

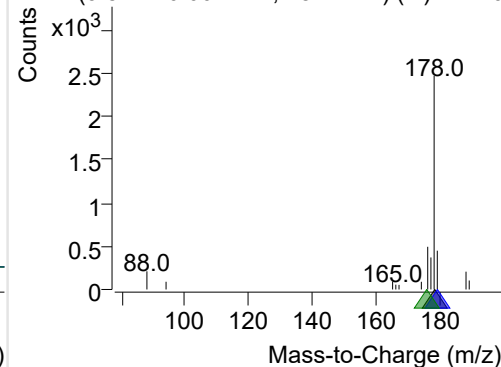
+ Selected Ion (178.0) 221208-PAHs-005.D



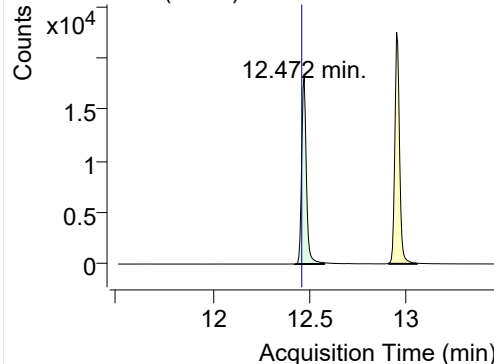
178.0, 179.0, 176.0



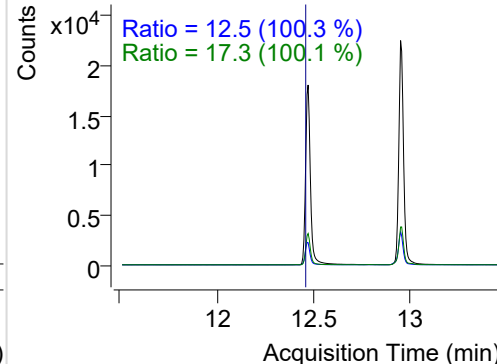
+ SIM (9.822-10.001 min, 18 scans) (**) 22120

**Fluoranthene**

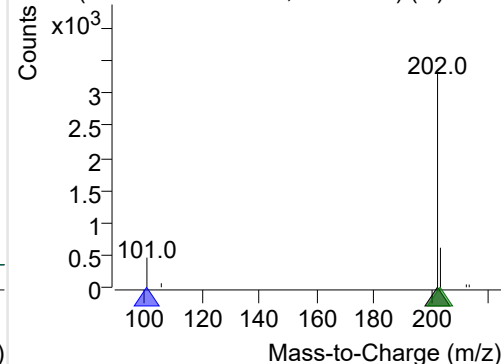
+ Selected Ion (202.0) 221208-PAHs-005.D



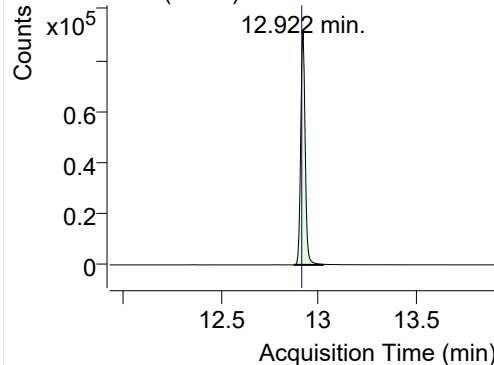
202.0, 101.0, 203.0



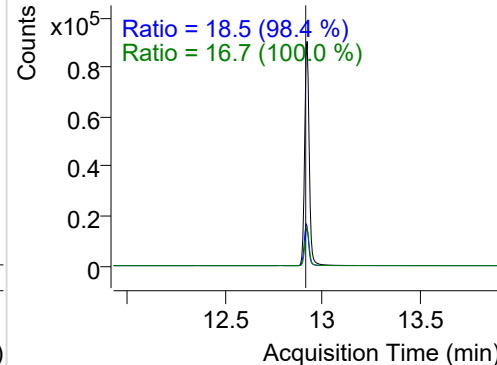
+ SIM (12.423-12.575 min, 29 scans) (**) 2212

**LSS-D10-Pyrene**

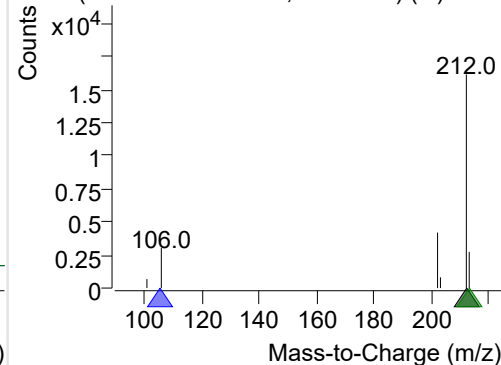
+ Selected Ion (212.0) 221208-PAHs-005.D



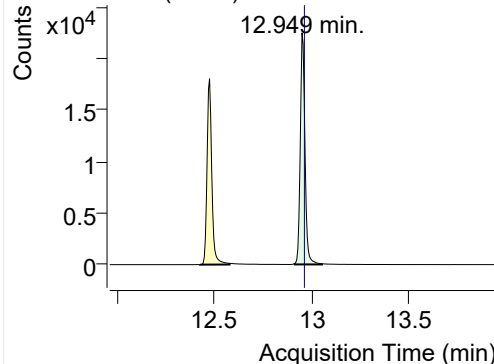
212.0, 106.0, 213.0



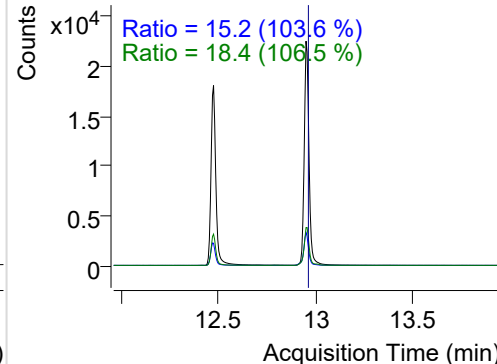
+ SIM (12.873-13.025 min, 28 scans) (**) 2212

**Pyrene**

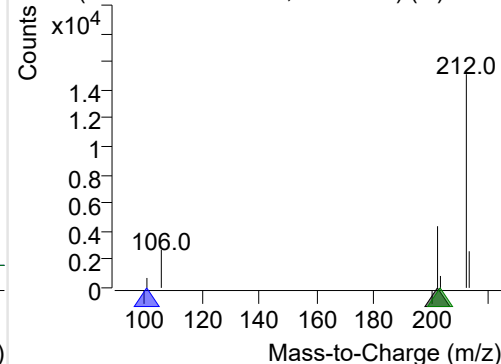
+ Selected Ion (202.0) 221208-PAHs-005.D



202.0, 101.0, 203.0

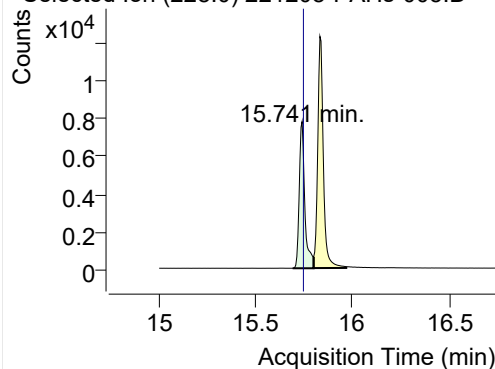


+ SIM (12.911-13.052 min, 27 scans) (**) 2212

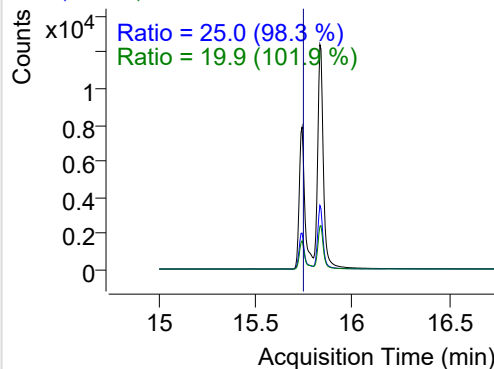


Benz(a)anthracene

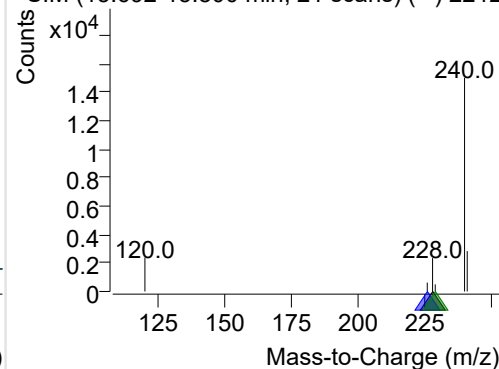
+ Selected Ion (228.0) 221208-PAHs-005.D



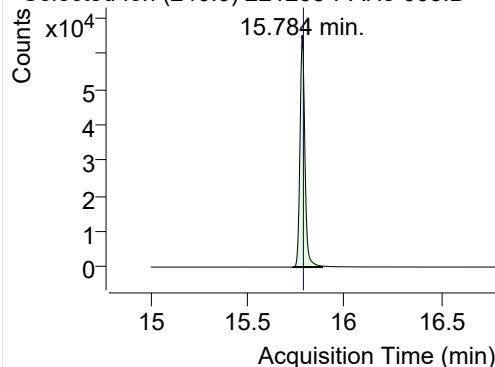
228.0, 226.0, 229.0



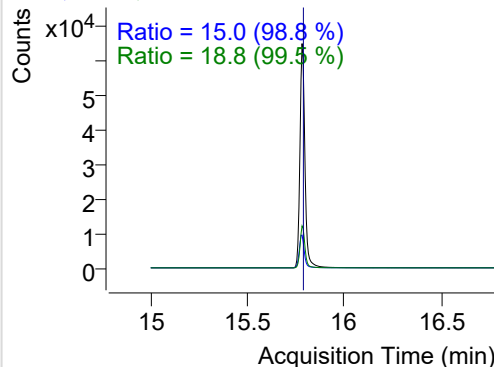
+ SIM (15.692-15.800 min, 21 scans) (**) 2212

**IS-D12-Chrysene**

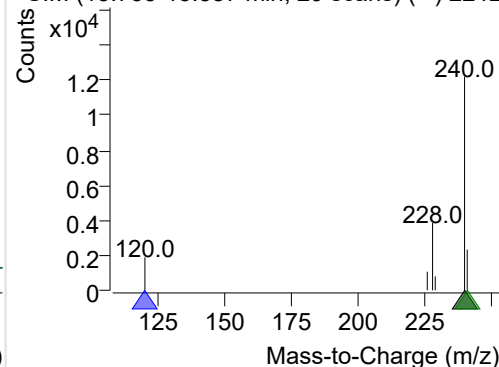
+ Selected Ion (240.0) 221208-PAHs-005.D



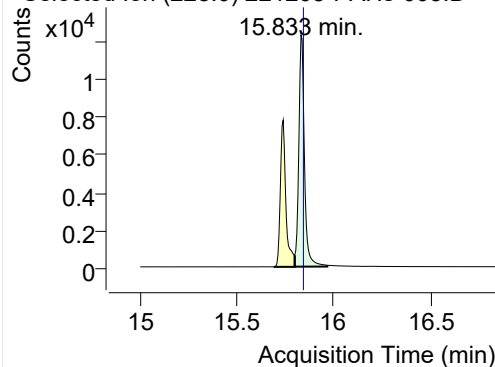
240.0, 120.0, 241.0



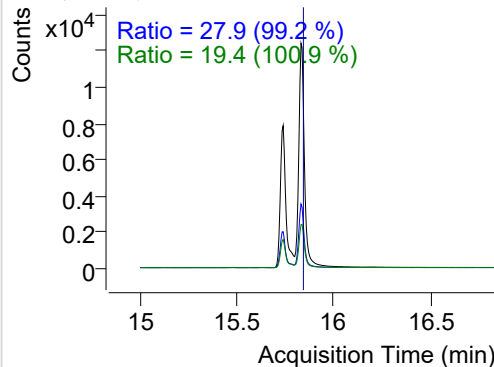
+ SIM (15.735-15.887 min, 29 scans) (**) 2212

**Chrysene**

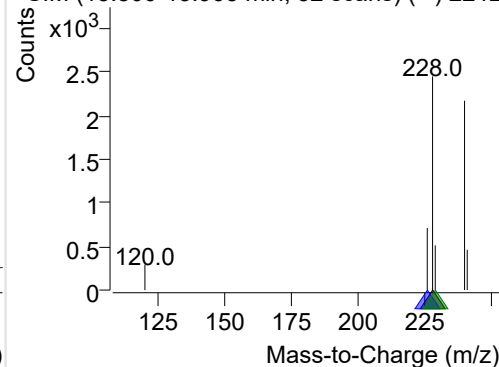
+ Selected Ion (228.0) 221208-PAHs-005.D



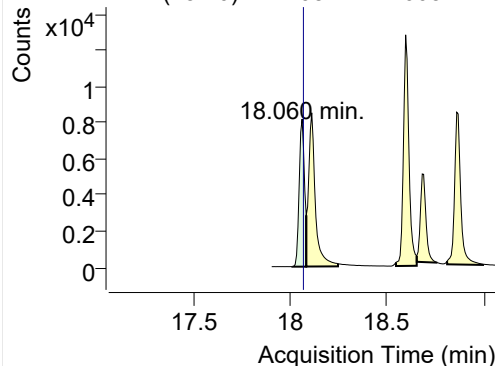
228.0, 226.0, 229.0



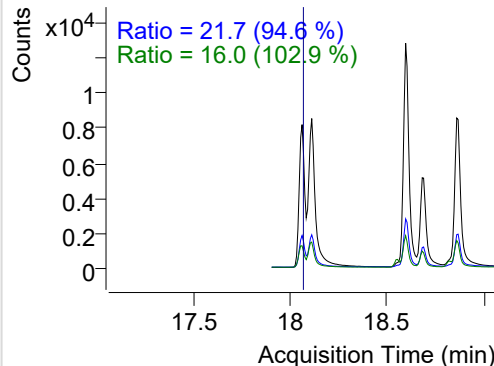
+ SIM (15.800-15.968 min, 32 scans) (**) 2212

**Benzo(b)fluoranthene**

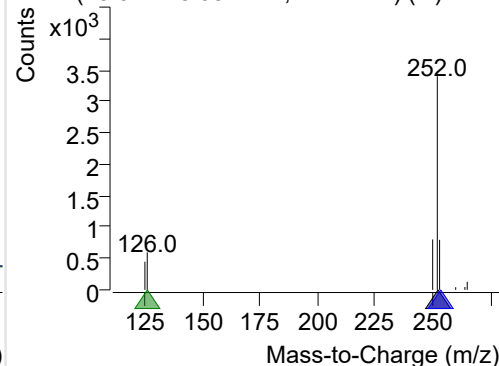
+ Selected Ion (252.0) 221208-PAHs-005.D



252.0, 253.0, 126.0

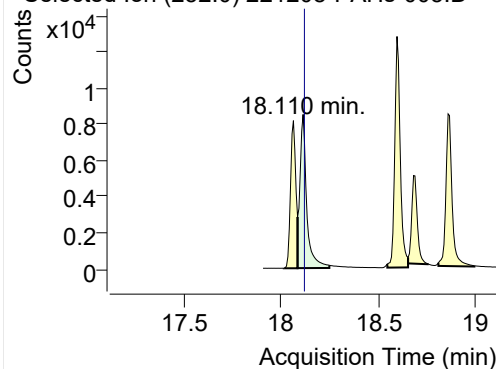


+ SIM (18.011-18.082 min, 11 scans) (**) 2212

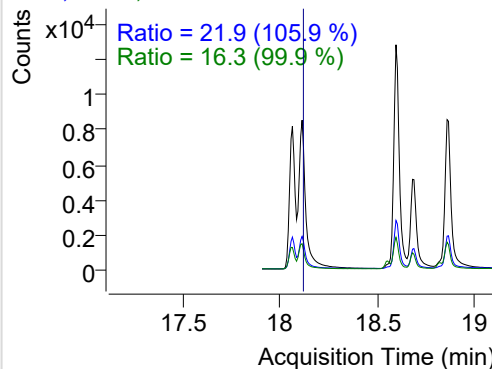


Benzo(k)fluoranthene

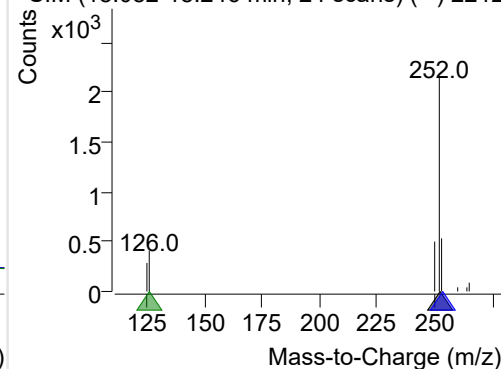
+ Selected Ion (252.0) 221208-PAHs-005.D



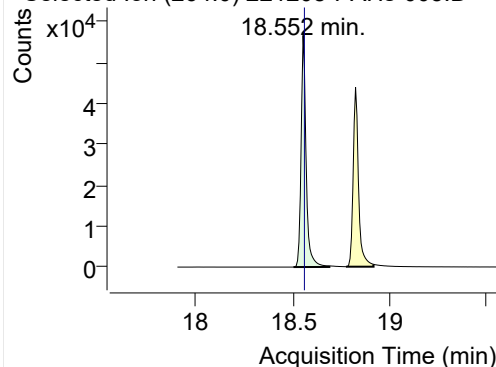
252.0, 253.0, 126.0



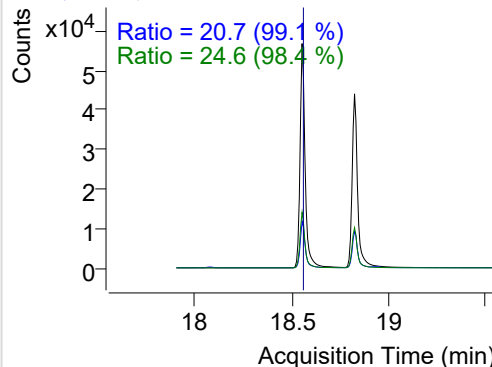
+ SIM (18.082-18.246 min, 24 scans) (**) 2212

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

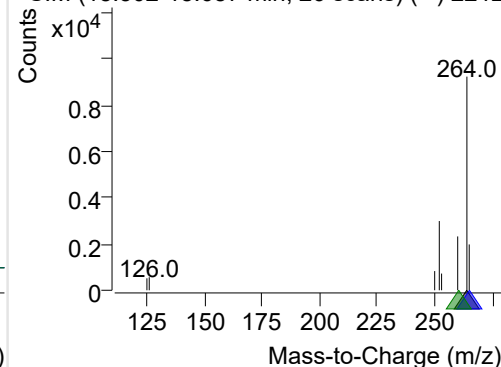
+ Selected Ion (264.0) 221208-PAHs-005.D



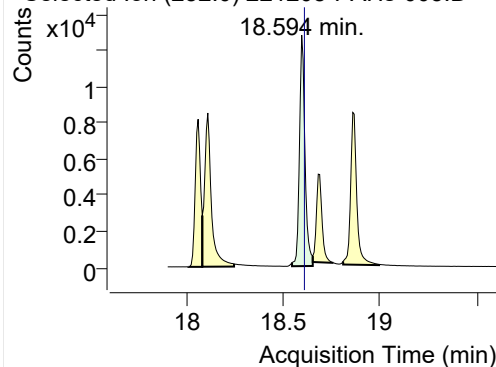
264.0, 265.0, 260.0



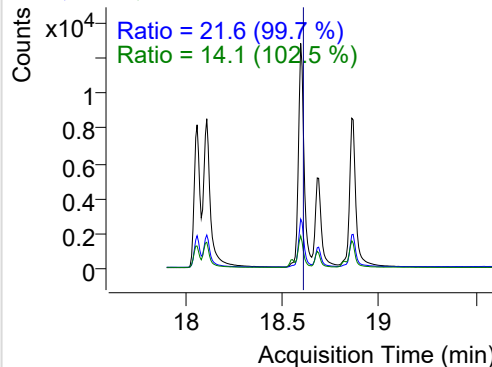
+ SIM (18.502-18.687 min, 26 scans) (**) 2212

**Benzo(e)pyrene**

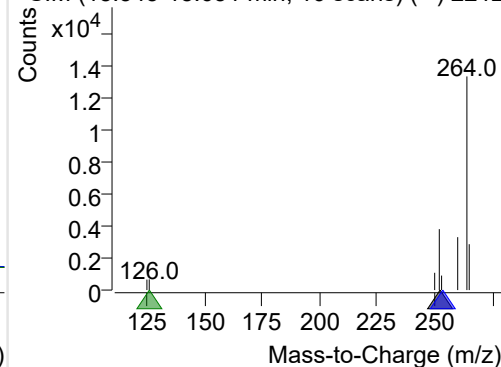
+ Selected Ion (252.0) 221208-PAHs-005.D



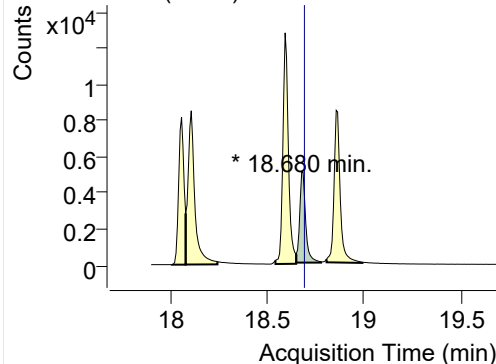
252.0, 253.0, 126.0



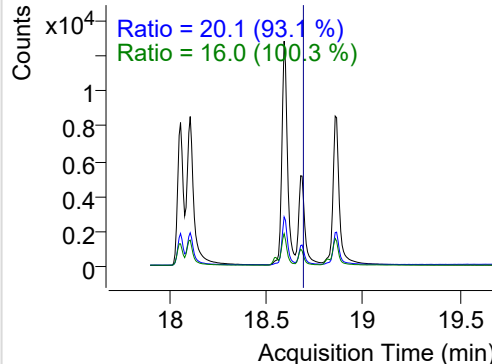
+ SIM (18.545-18.651 min, 16 scans) (**) 2212

**Benzo(a)pyrene**

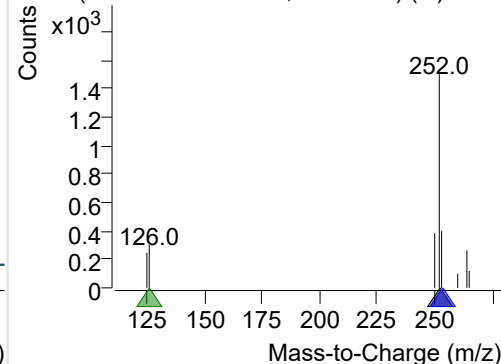
+ Selected Ion (252.0) 221208-PAHs-005.D



252.0, 253.0, 126.0

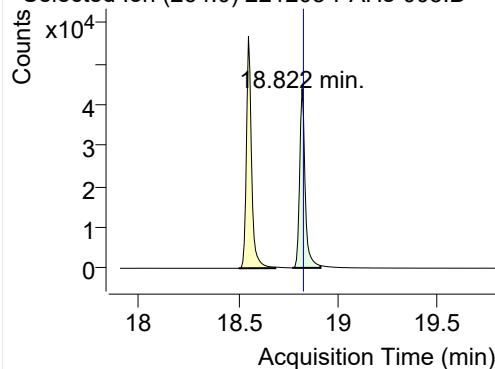


+ SIM (18.651-18.779 min, 19 scans) (**) 2212

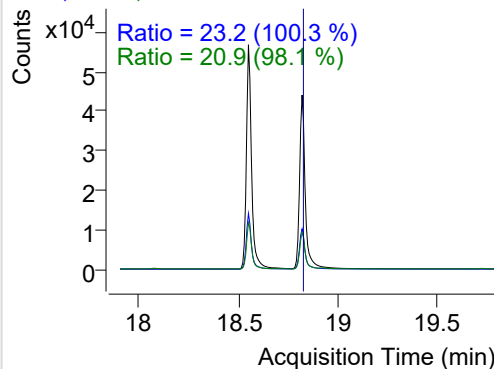


IS-D12-Perylene

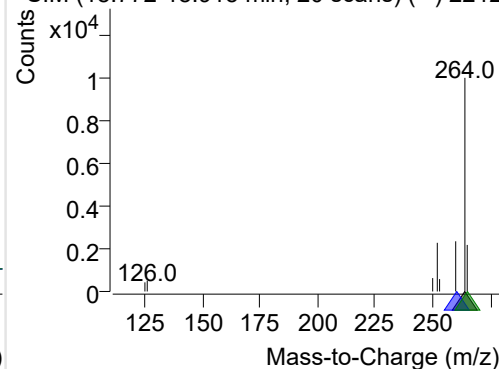
+ Selected Ion (264.0) 221208-PAHs-005.D



264.0, 260.0, 265.0

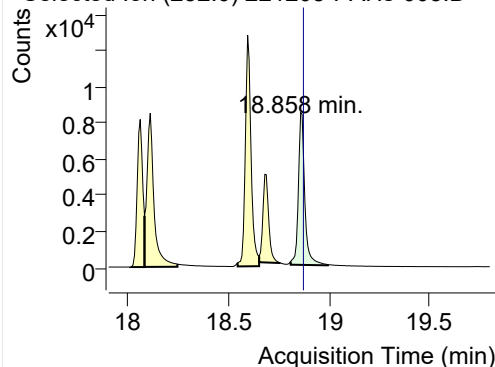


+ SIM (18.772-18.915 min, 20 scans) (**) 2212

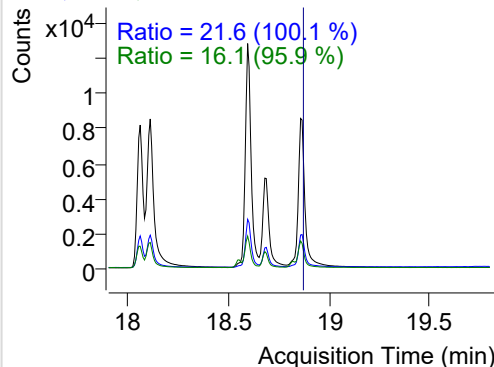


Perylene

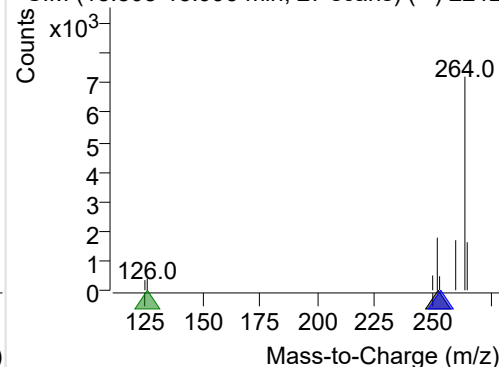
+ Selected Ion (252.0) 221208-PAHs-005.D



252.0, 253.0, 126.0

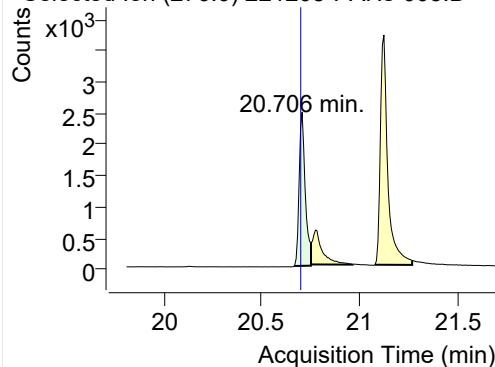


+ SIM (18.808-18.993 min, 27 scans) (**) 2212

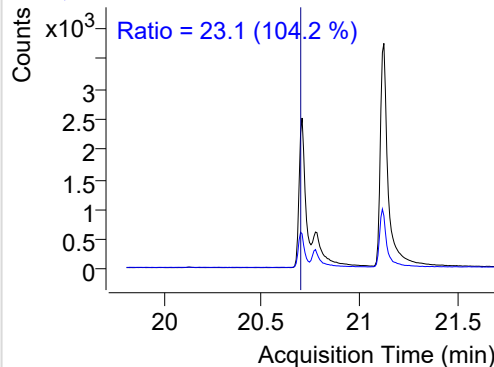


Indeno(1,2,3-c,d)pyrene

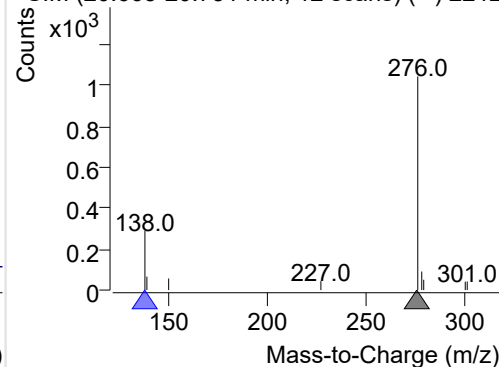
+ Selected Ion (276.0) 221208-PAHs-005.D



276.0, 138.0

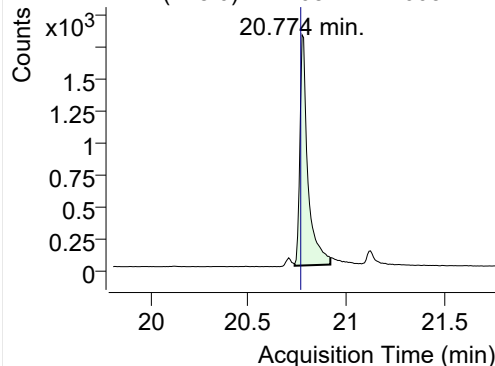


+ SIM (20.665-20.751 min, 12 scans) (**) 2212

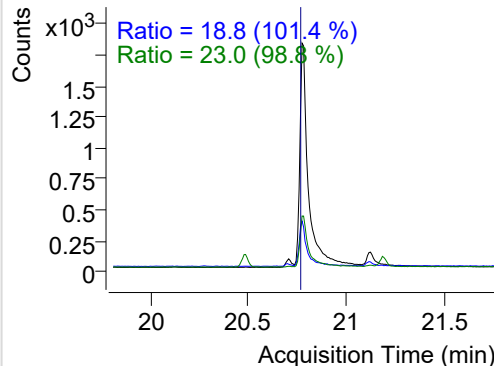


Dibenz(a,h)anthracene

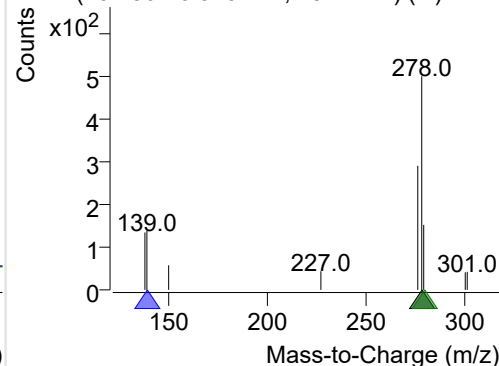
+ Selected Ion (278.0) 221208-PAHs-005.D



278.0, 139.0, 279.0

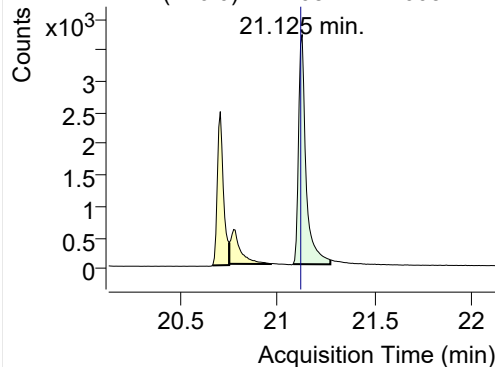


+ SIM (20.736-20.919 min, 25 scans) (**) 2212

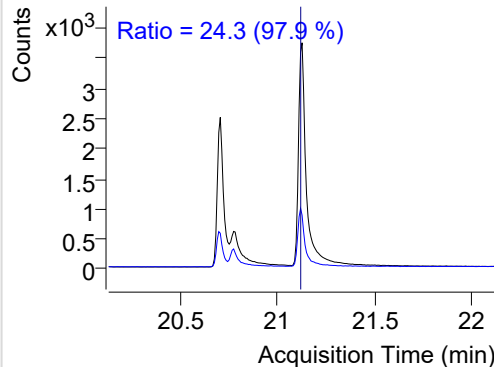


Benzo(g,h,i)perylene

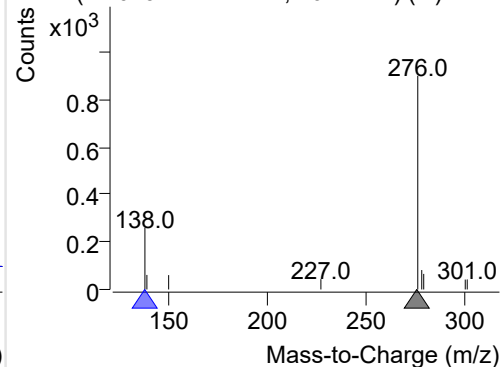
+ Selected Ion (276.0) 221208-PAHs-005.D



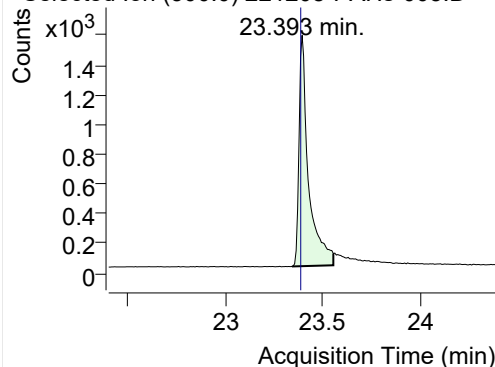
276.0, 138.0



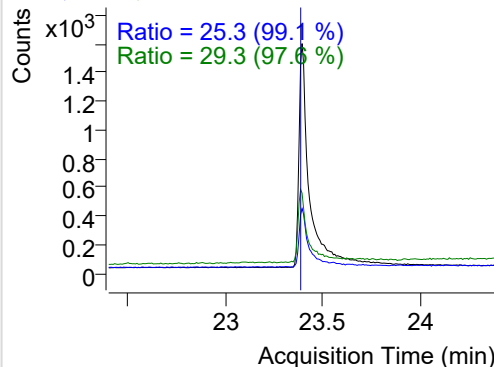
+ SIM (21.079-21.271 min, 26 scans) (**) 2212

**Coronene**

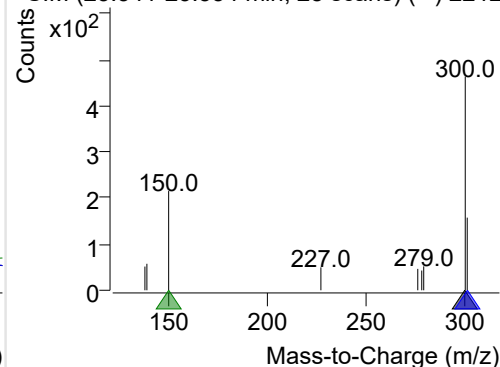
+ Selected Ion (300.0) 221208-PAHs-005.D



300.0, 301.0, 150.0



+ SIM (23.341-23.554 min, 28 scans) (**) 2212



Quantitative Analysis Sample Based Report

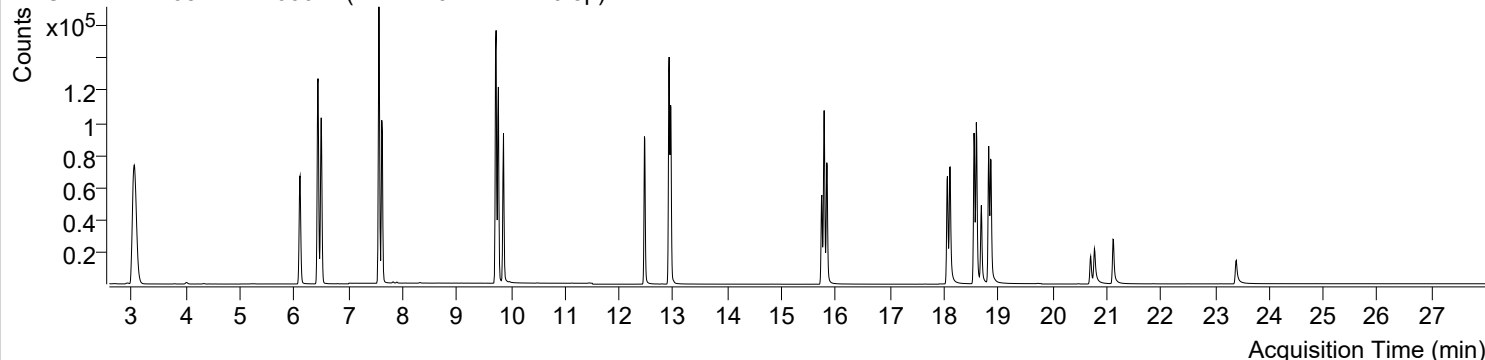


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-08 오후 8:11:18	Data File	221208-PAHs-006.D
Type	Sample	Name	PAHs-19mix-STD-0.5p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

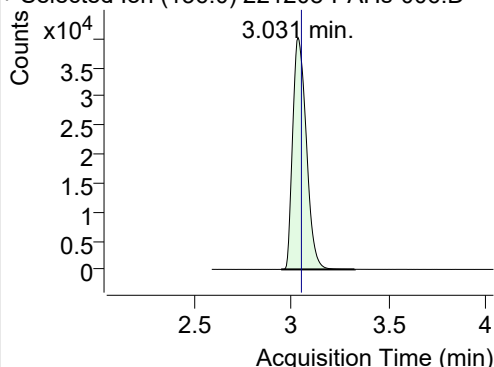
+ TIC SIM 221208-PAHs-006.D (PAHs-19mix-STD-0.5p)



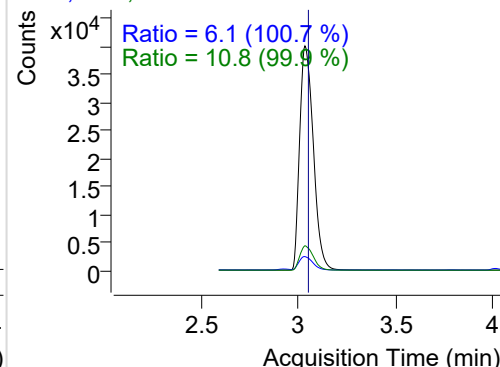
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	195566	40066.86	ND ng/ml	10.8
Naphthalene	3.058	128.0	129221	26152.25	ND ng/ml	12.5
Acenaphthylene	6.108	152.0	106665	50348.14	ND ng/ml	19.1
IS-D10-Acenaphthene	6.439	164.0	121774	61981.37	ND ng/ml	92.9
Acenaphthene	6.499	154.0	73244	37220.90	ND ng/ml	104.4
LSS-D10-Fluorene	7.564	176.0	130231	78753.29	ND ng/ml	89.8
Fluorene	7.617	166.0	89271	48082.59	ND ng/ml	90.6
IS-D10-Phenanthrene	9.727	188.0	212184	127932.6	ND ng/ml	15.0
Phenanthrene	9.769	178.0	130610	80324.37	ND ng/ml	18.4
Anthracene	9.864	178.0	100802	62839.61	ND ng/ml	17.7
Fluoranthene	12.467	202.0	116485	70334.06	ND ng/ml	17.1
LSS-D10-Pyrene	12.922	212.0	163917	102930.7	ND ng/ml	18.7
Pyrene	12.954	202.0	134138	79868.98	ND ng/ml	17.7
Benz(a)anthracene	15.741	228.0	70596	38078.50	ND ng/ml	25.2
IS-D12-Chrysene	15.784	240.0	138495	77859.60	ND ng/ml	18.8
Chrysene	15.833	228.0	92721	49107.21	ND ng/ml	28.1
Benzo(b)fluoranthene	18.060	252.0	71161	39608.21	ND ng/ml	21.4
Benzo(k)fluoranthene	18.110	252.0	96069	42721.69	ND ng/ml	21.8
SS-D12-Benzo(e)pyrene	18.552	264.0	120583	63198.05	ND ng/ml	24.9
Benzo(e)pyrene	18.594	252.0	97335	51880.01	ND ng/ml	21.6
Benzo(a)pyrene	18.687	252.0	56664	27779.52	ND ng/ml	20.1
IS-D12-Perylene	18.822	264.0	104153	56675.27	ND ng/ml	24.1
Perylene	18.865	252.0	80567	39026.50	ND ng/ml	20.9
Indeno(1,2,3-c,d)pyrene	20.705	276.0	30780	13587.35	ND ng/ml	22.6
Dibenz(a,h)anthracene	20.774	278.0	34270	11378.64	ND ng/ml	22.2
Benzo(g,h,i)perylene	21.125	276.0	53633	21586.30	ND ng/ml	24.5
Coronene	23.393	300.0	29214	9365.48	ND ng/ml	30.4

IS-D8-Naphthalene

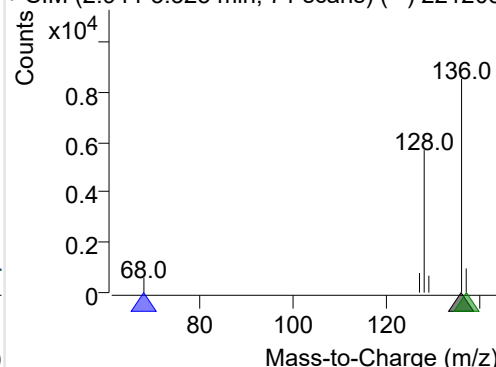
+ Selected Ion (136.0) 221208-PAHs-006.D



136.0, 68.0, 137.0

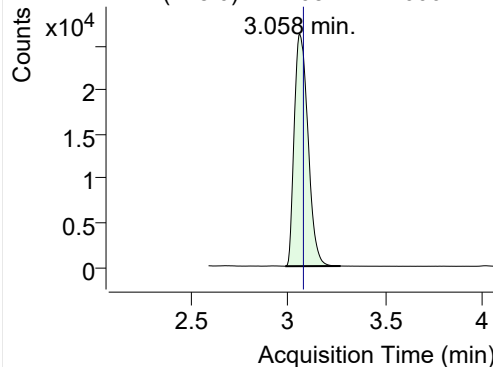


+ SIM (2.944-3.323 min, 71 scans) (**) 221208

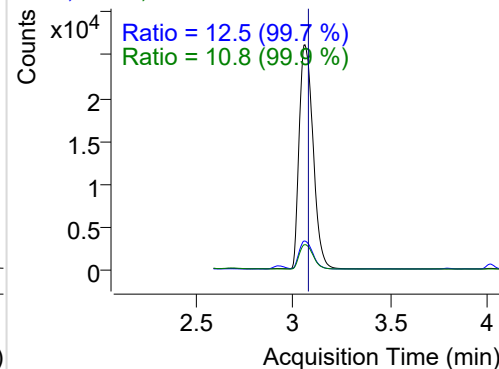


Naphthalene

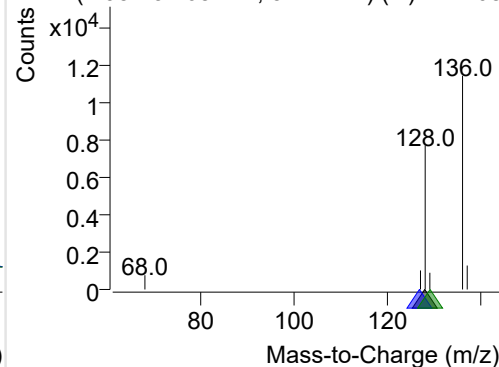
+ Selected Ion (128.0) 221208-PAHs-006.D



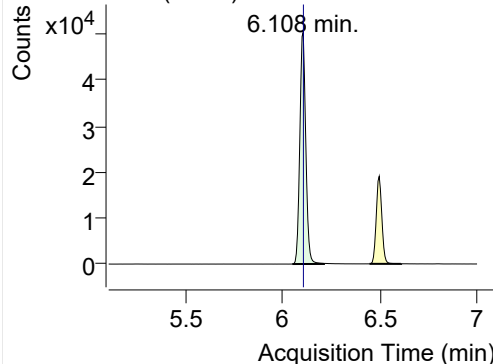
128.0, 127.0, 129.0



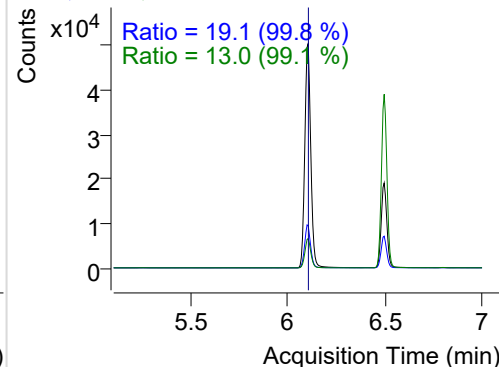
+ SIM (2.982-3.268 min, 52 scans) (**) 221208

**Acenaphthylene**

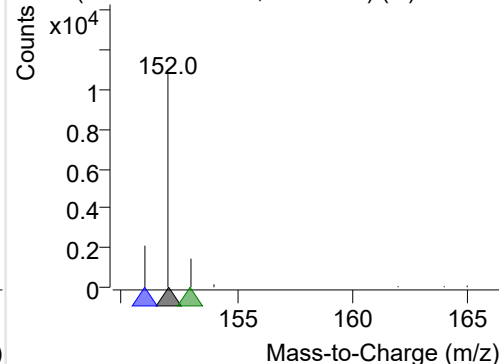
+ Selected Ion (152.0) 221208-PAHs-006.D



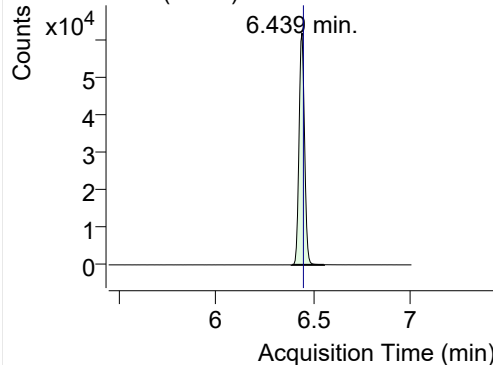
152.0, 151.0, 153.0



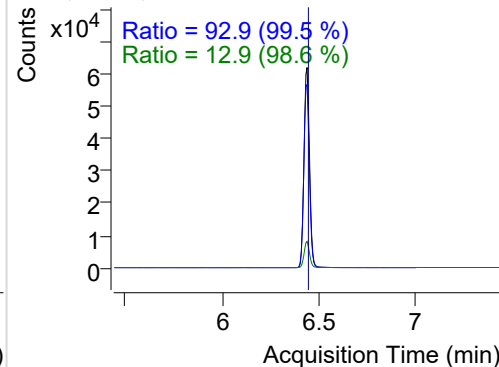
+ SIM (6.052-6.214 min, 28 scans) (**) 221208

**IS-D10-Acenaphthene**

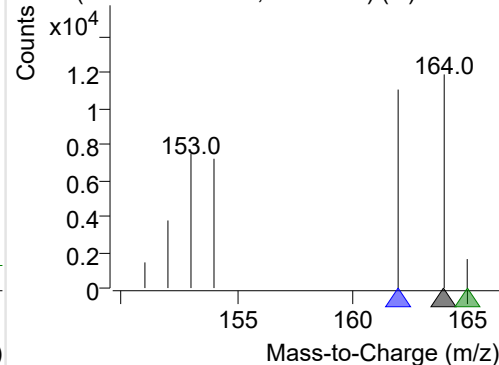
+ Selected Ion (164.0) 221208-PAHs-006.D



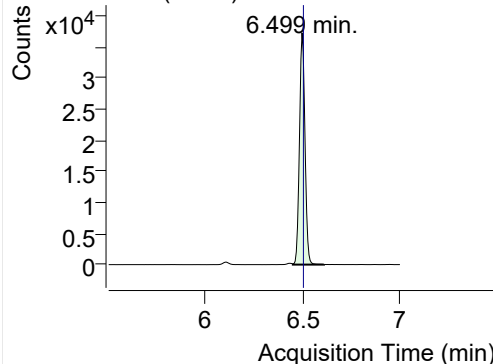
164.0, 162.0, 165.0



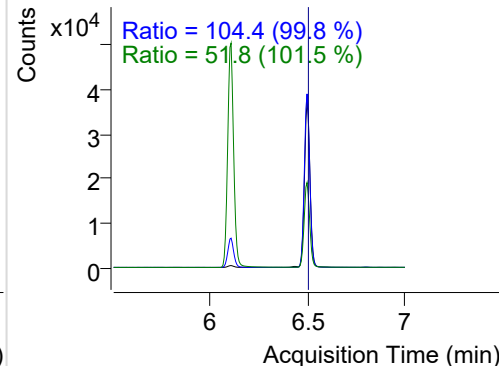
+ SIM (6.386-6.552 min, 29 scans) (**) 221208

**Acenaphthene**

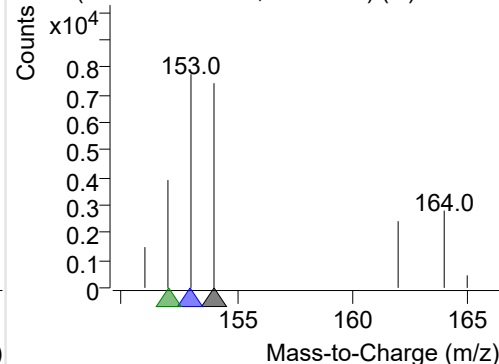
+ Selected Ion (154.0) 221208-PAHs-006.D



154.0, 153.0, 152.0

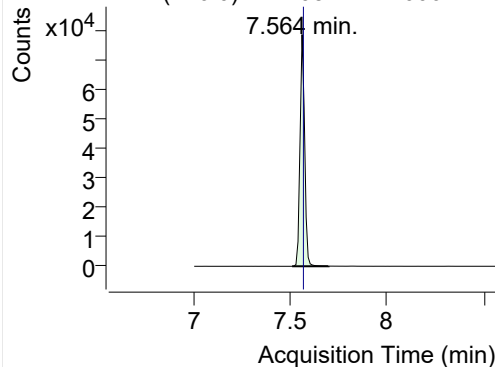


+ SIM (6.451-6.611 min, 28 scans) (**) 221208

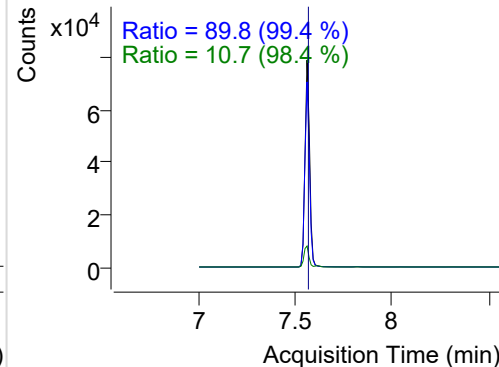


LSS-D10-Fluorene

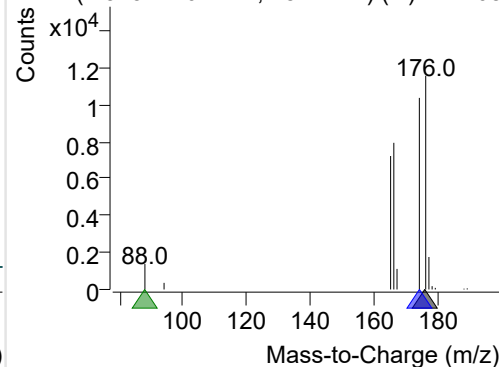
+ Selected Ion (176.0) 221208-PAHs-006.D



176.0, 174.0, 88.0

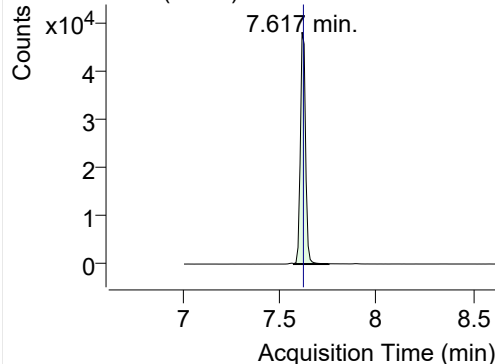


+ SIM (7.513-7.701 min, 18 scans) (**) 221208

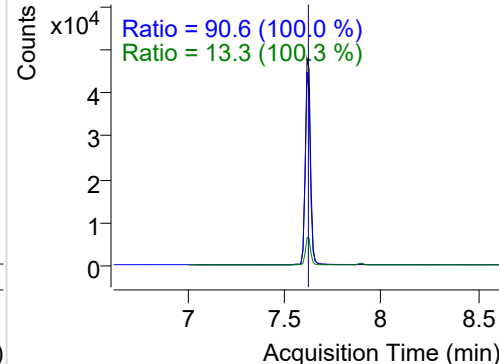


Fluorene

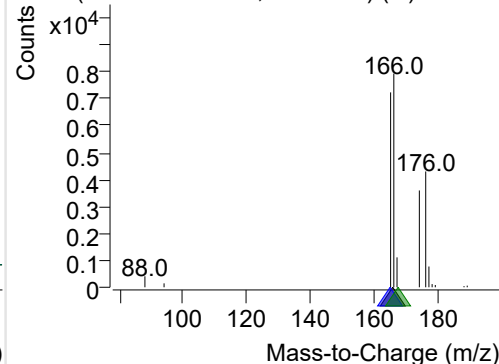
+ Selected Ion (166.0) 221208-PAHs-006.D



166.0, 165.0, 167.0

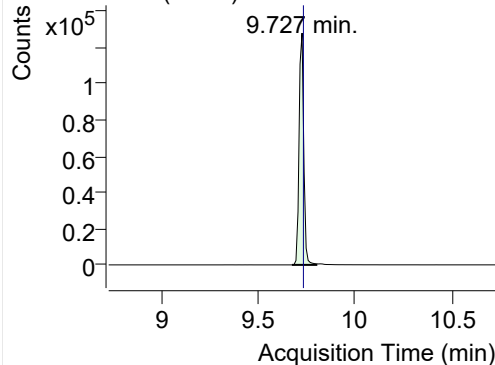


+ SIM (7.575-7.753 min, 18 scans) (**) 221208

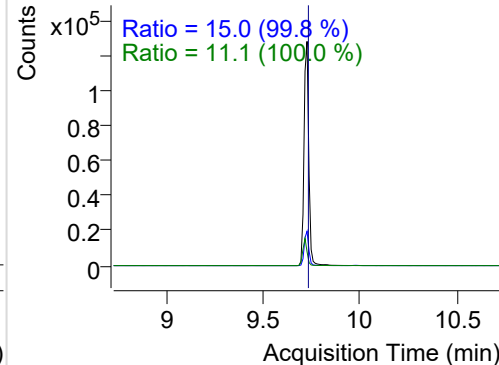


IS-D10-Phenanthrene

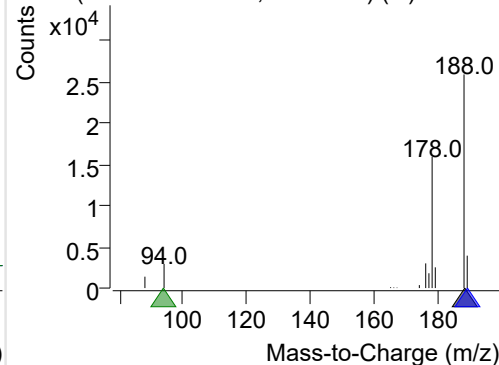
+ Selected Ion (188.0) 221208-PAHs-006.D



188.0, 189.0, 94.0

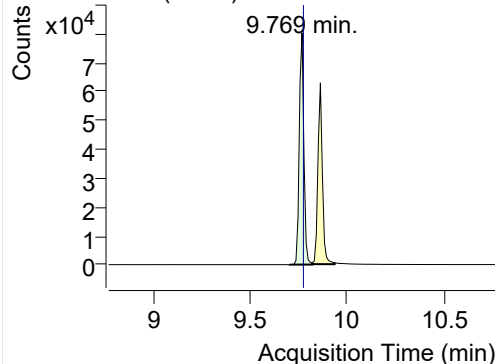


+ SIM (9.675-9.801 min, 13 scans) (**) 221208

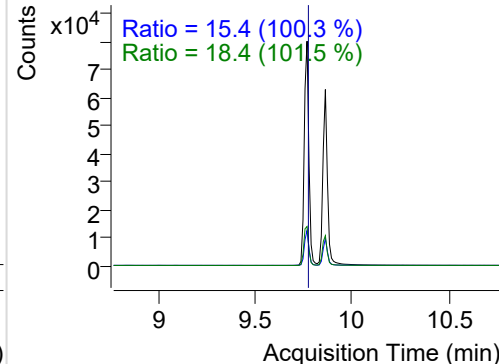


Phenanthrene

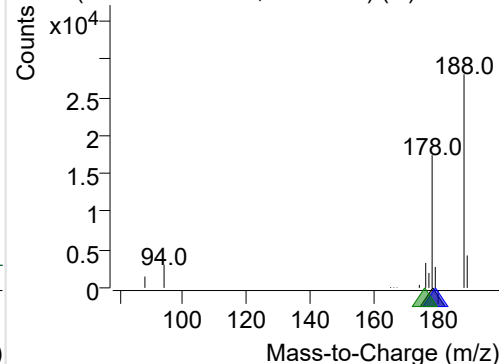
+ Selected Ion (178.0) 221208-PAHs-006.D



178.0, 179.0, 176.0

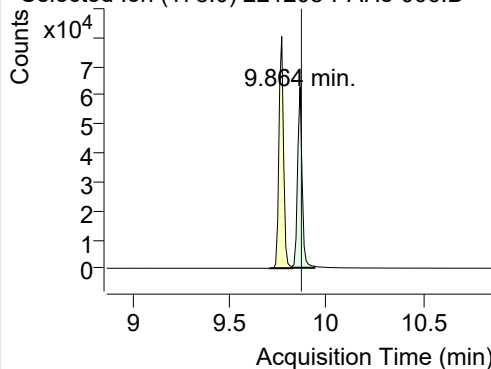


+ SIM (9.706-9.822 min, 12 scans) (**) 221208

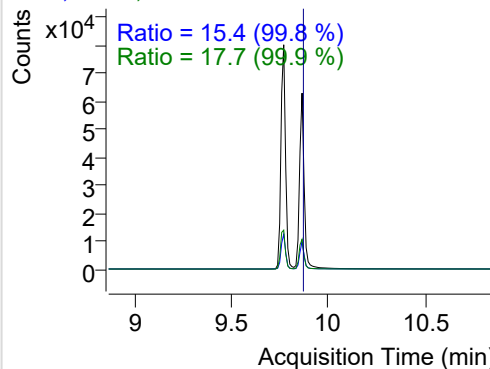


Anthracene

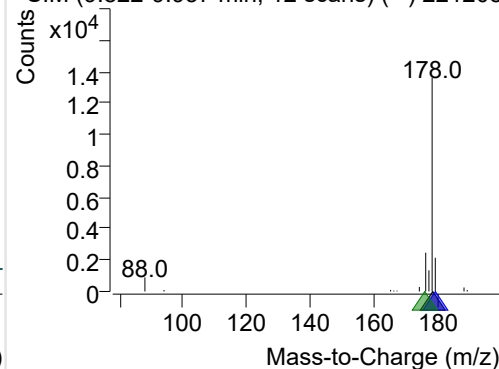
+ Selected Ion (178.0) 221208-PAHs-006.D



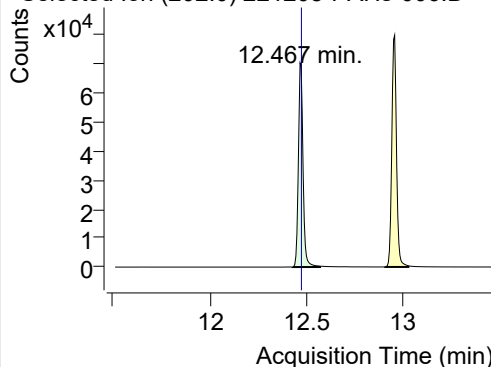
178.0, 179.0, 176.0



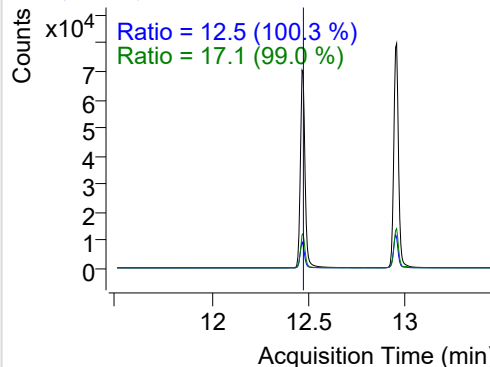
+ SIM (9.822-9.937 min, 12 scans) (**) 221208

**Fluoranthene**

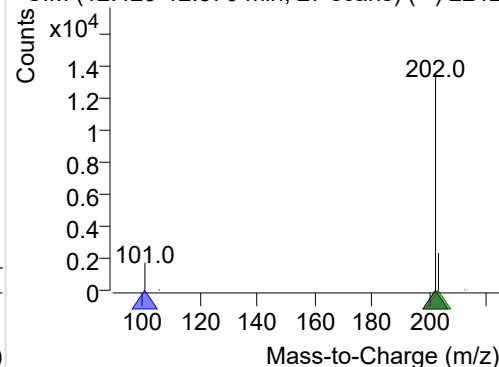
+ Selected Ion (202.0) 221208-PAHs-006.D



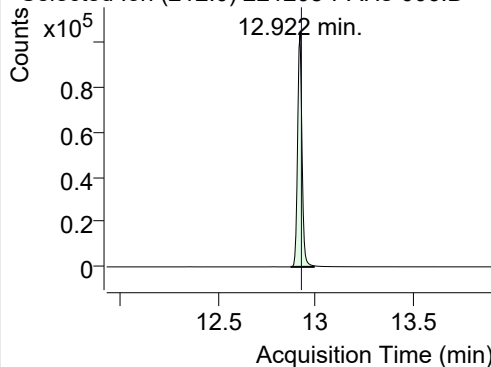
202.0, 101.0, 203.0



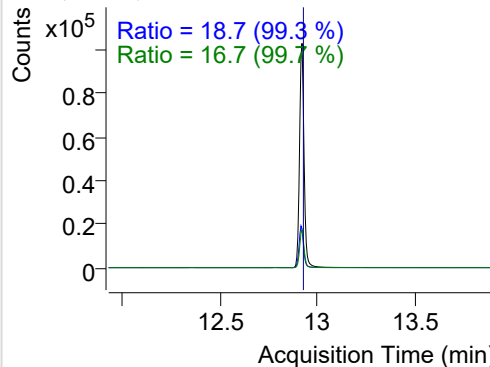
+ SIM (12.429-12.570 min, 27 scans) (**) 2212

**LSS-D10-Pyrene**

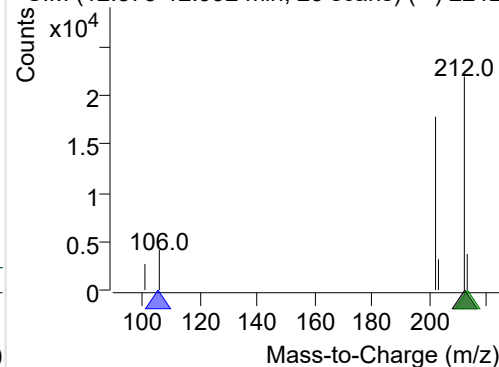
+ Selected Ion (212.0) 221208-PAHs-006.D



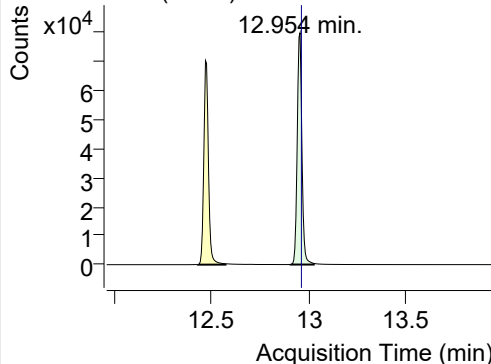
212.0, 106.0, 213.0



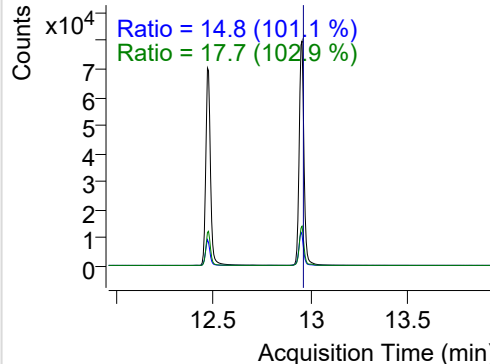
+ SIM (12.873-12.992 min, 23 scans) (**) 2212

**Pyrene**

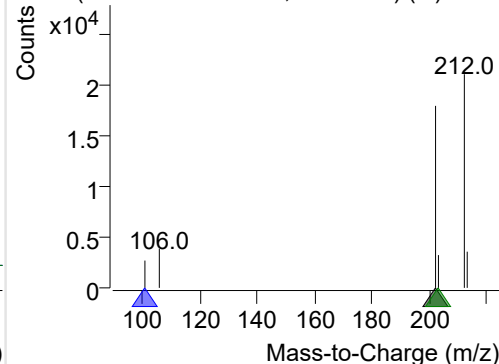
+ Selected Ion (202.0) 221208-PAHs-006.D



202.0, 101.0, 203.0

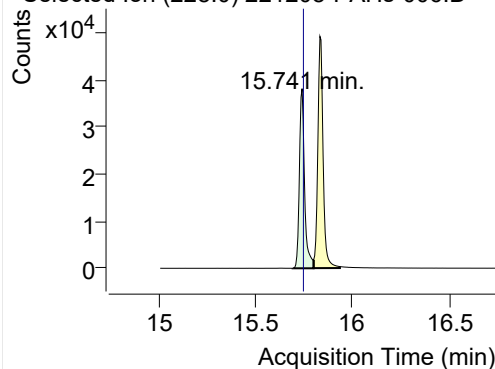


+ SIM (12.906-13.025 min, 23 scans) (**) 2212

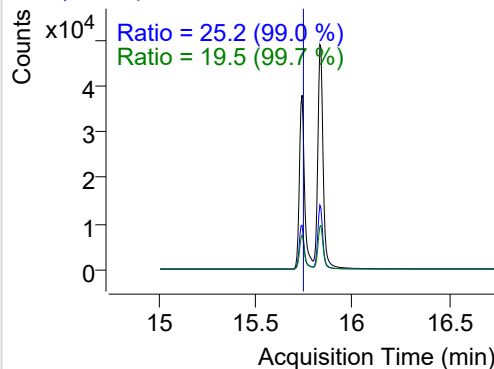


Benz(a)anthracene

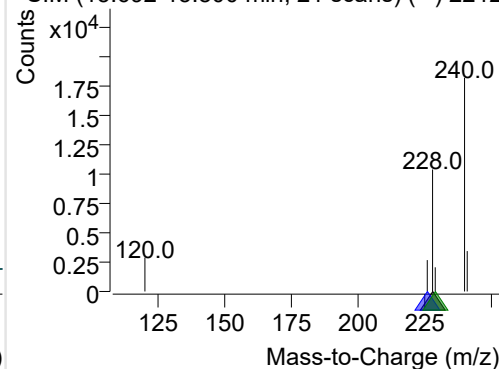
+ Selected Ion (228.0) 221208-PAHs-006.D



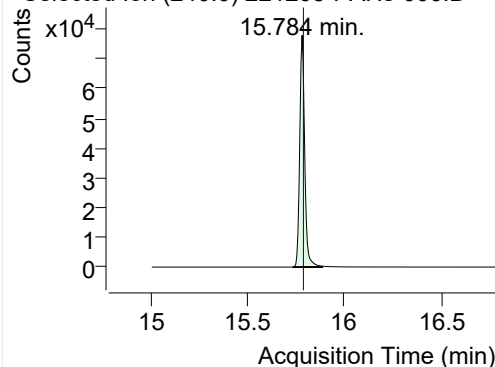
228.0, 226.0, 229.0



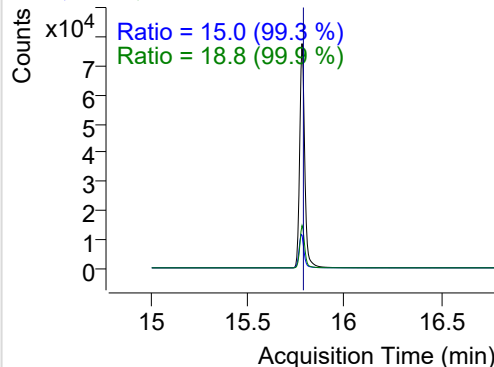
+ SIM (15.692-15.800 min, 21 scans) (**) 2212

**IS-D12-Chrysene**

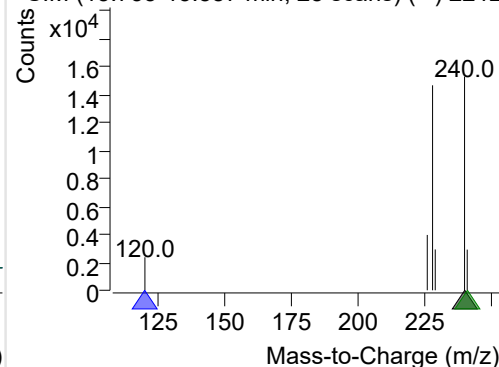
+ Selected Ion (240.0) 221208-PAHs-006.D



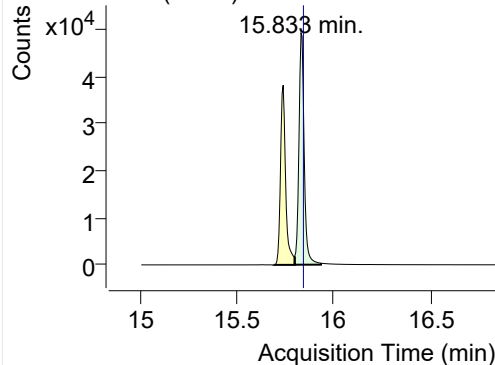
240.0, 120.0, 241.0



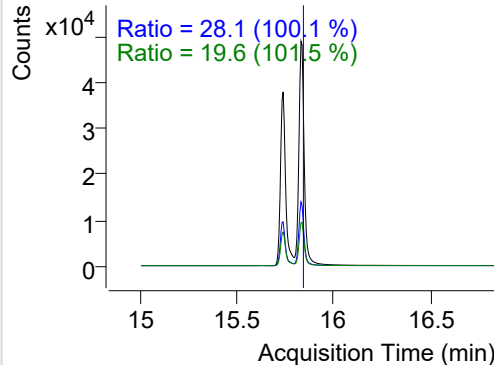
+ SIM (15.735-15.887 min, 28 scans) (**) 2212

**Chrysene**

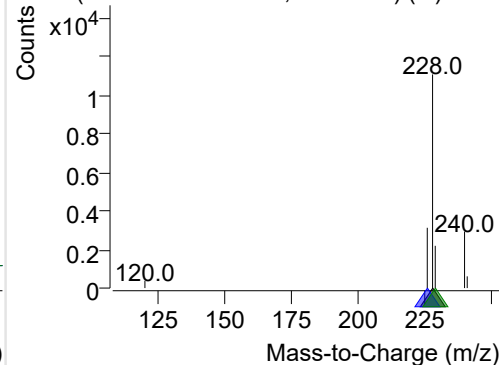
+ Selected Ion (228.0) 221208-PAHs-006.D



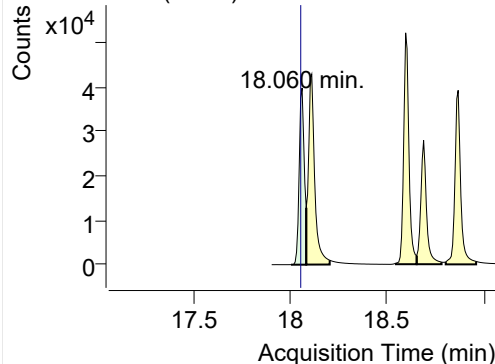
228.0, 226.0, 229.0



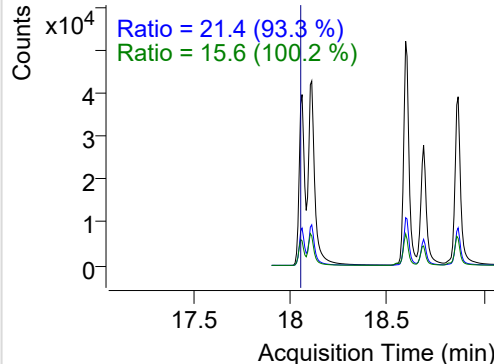
+ SIM (15.800-15.936 min, 26 scans) (**) 2212

**Benzo(b)fluoranthene**

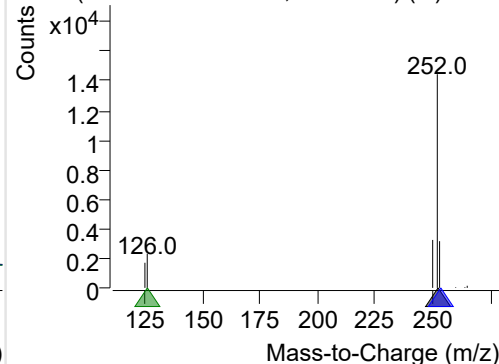
+ Selected Ion (252.0) 221208-PAHs-006.D



252.0, 253.0, 126.0

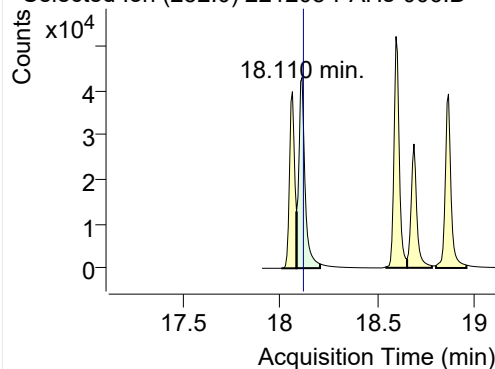


+ SIM (18.003-18.082 min, 12 scans) (**) 2212

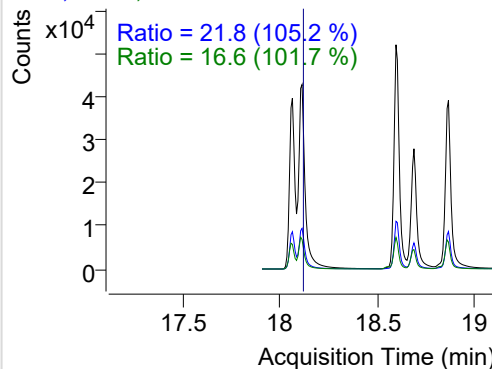


Benzo(k)fluoranthene

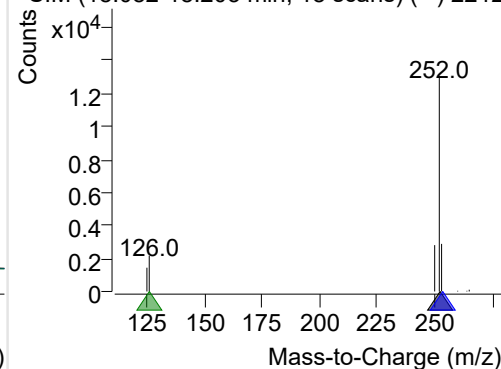
+ Selected Ion (252.0) 221208-PAHs-006.D



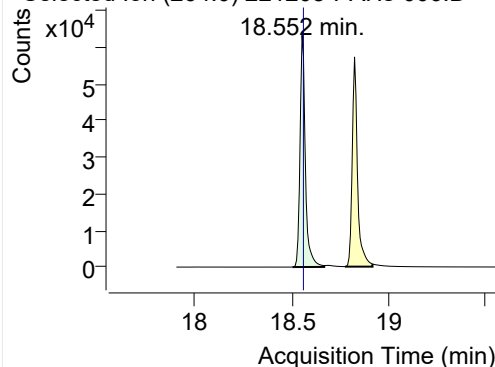
252.0, 253.0, 126.0



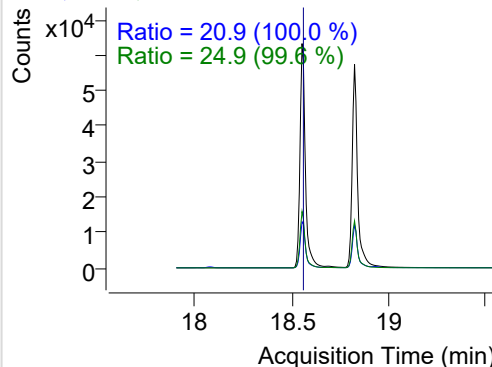
+ SIM (18.082-18.203 min, 18 scans) (**) 2212

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

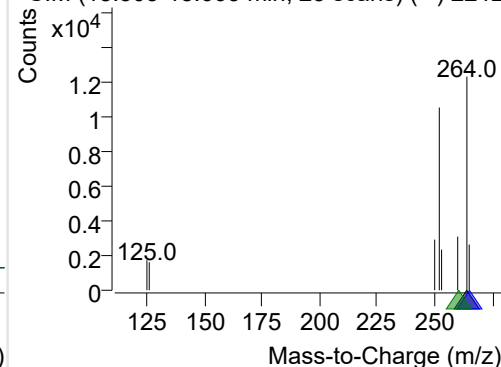
+ Selected Ion (264.0) 221208-PAHs-006.D



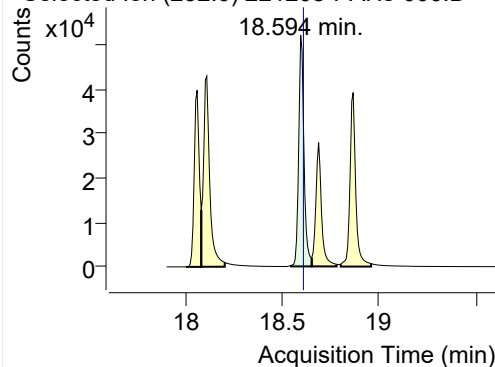
264.0, 265.0, 260.0



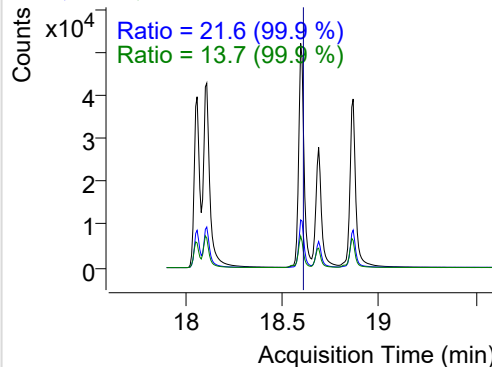
+ SIM (18.503-18.665 min, 23 scans) (**) 2212

**Benzo(e)pyrene**

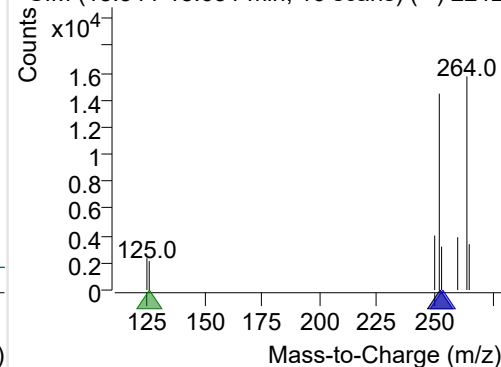
+ Selected Ion (252.0) 221208-PAHs-006.D



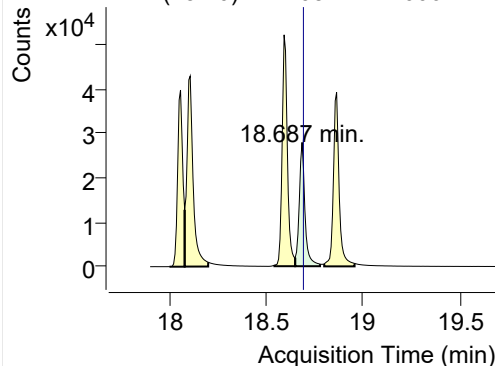
252.0, 253.0, 126.0



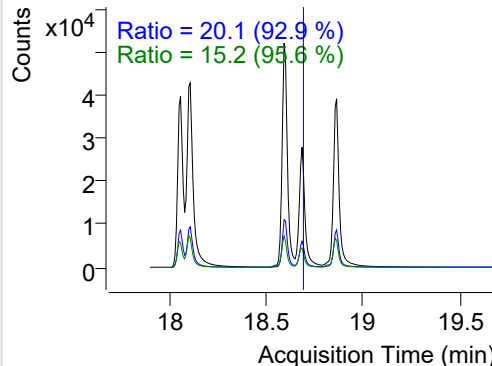
+ SIM (18.544-18.651 min, 16 scans) (**) 2212

**Benzo(a)pyrene**

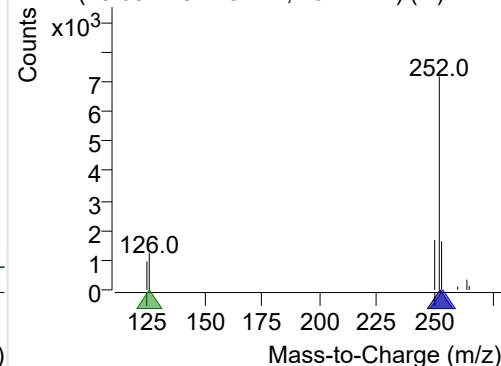
+ Selected Ion (252.0) 221208-PAHs-006.D



252.0, 253.0, 126.0

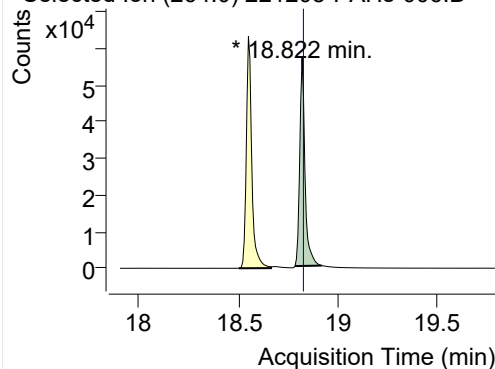


+ SIM (18.651-18.779 min, 19 scans) (**) 2212

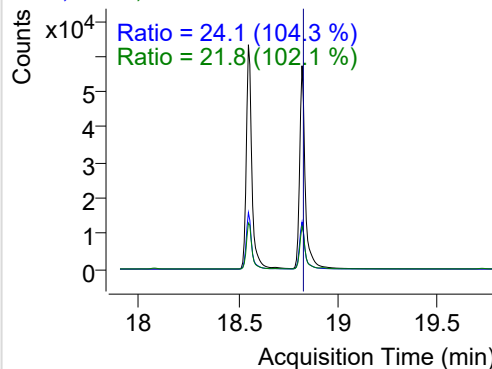


IS-D12-Perylene

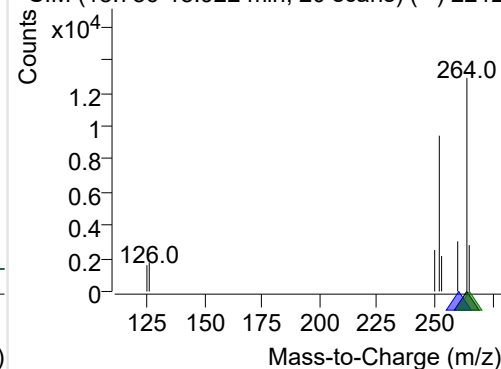
+ Selected Ion (264.0) 221208-PAHs-006.D



264.0, 260.0, 265.0

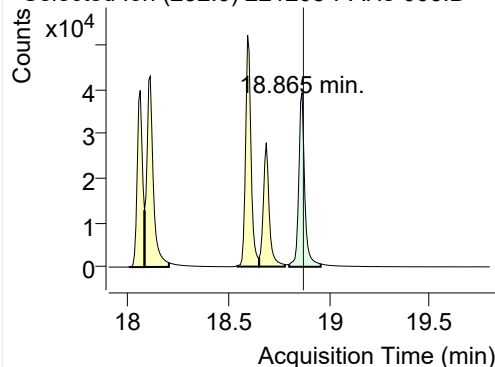


+ SIM (18.786-18.922 min, 20 scans) (**) 2212

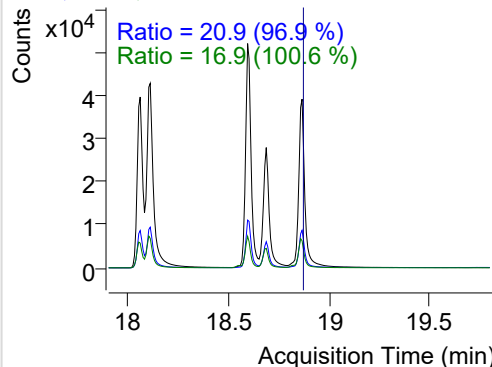


Perylene

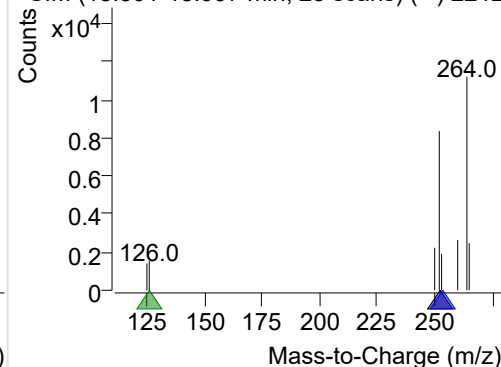
+ Selected Ion (252.0) 221208-PAHs-006.D



252.0, 253.0, 126.0

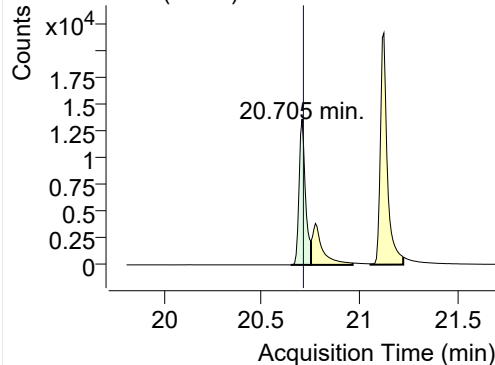


+ SIM (18.801-18.957 min, 23 scans) (**) 2212

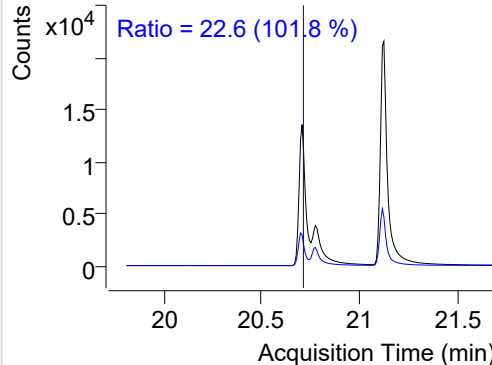


Indeno(1,2,3-c,d)pyrene

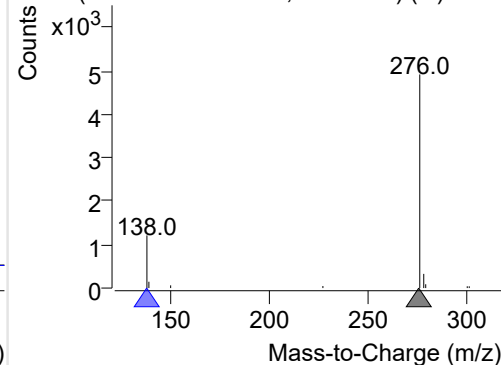
+ Selected Ion (276.0) 221208-PAHs-006.D



276.0, 138.0

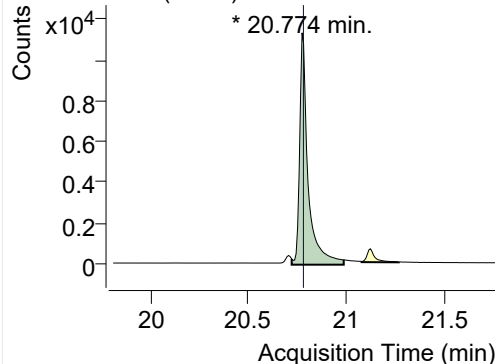


+ SIM (20.647-20.751 min, 14 scans) (**) 2212

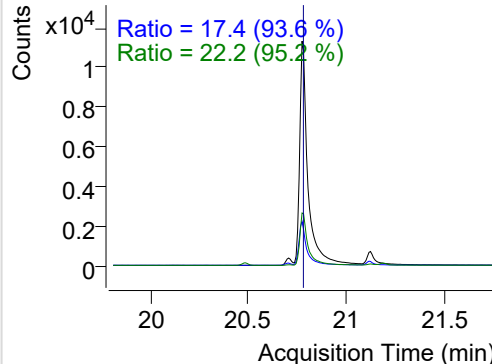


Dibenz(a,h)anthracene

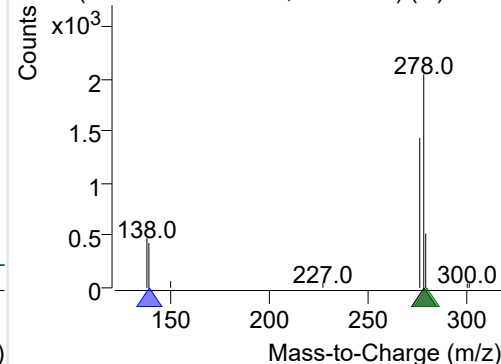
+ Selected Ion (278.0) 221208-PAHs-006.D



278.0, 139.0, 279.0

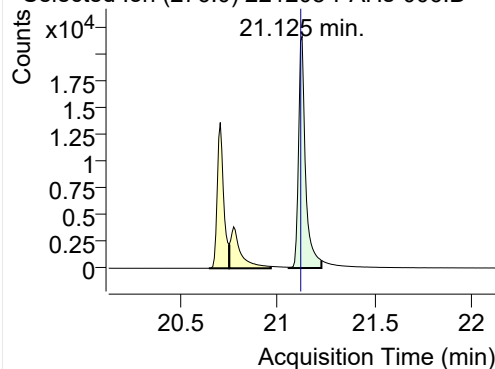


+ SIM (20.721-20.988 min, 36 scans) (**) 2212

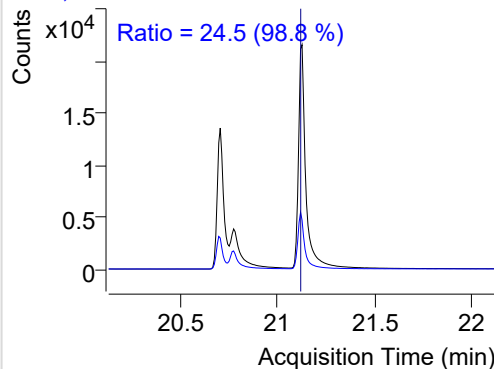


Benzo(g,h,i)perylene

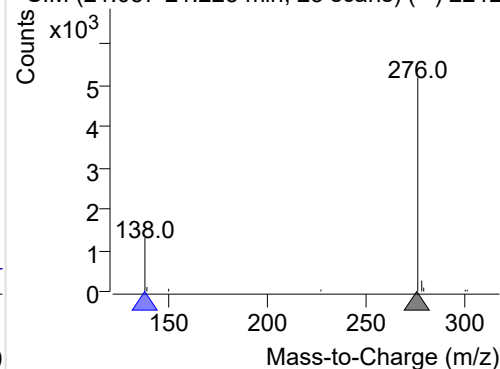
+ Selected Ion (276.0) 221208-PAHs-006.D



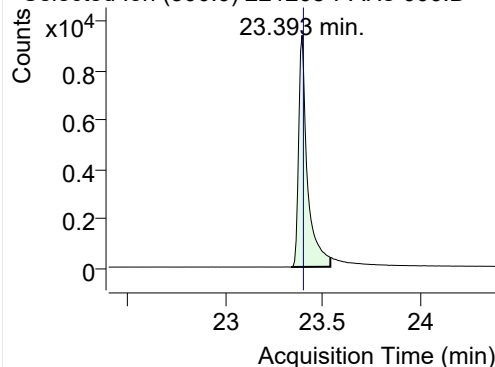
276.0, 138.0



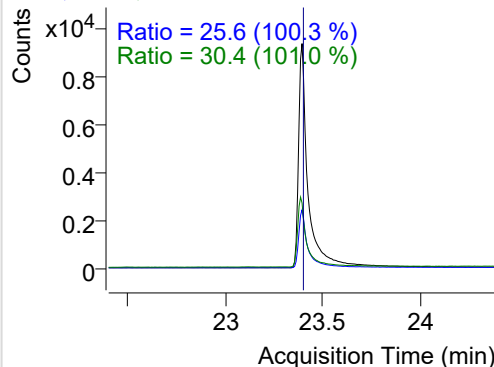
+ SIM (21.057-21.225 min, 23 scans) (**) 2212

**Coronene**

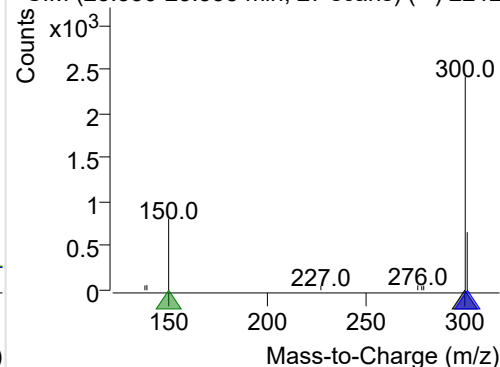
+ Selected Ion (300.0) 221208-PAHs-006.D



300.0, 301.0, 150.0



+ SIM (23.336-23.538 min, 27 scans) (**) 2212



Quantitative Analysis Sample Based Report

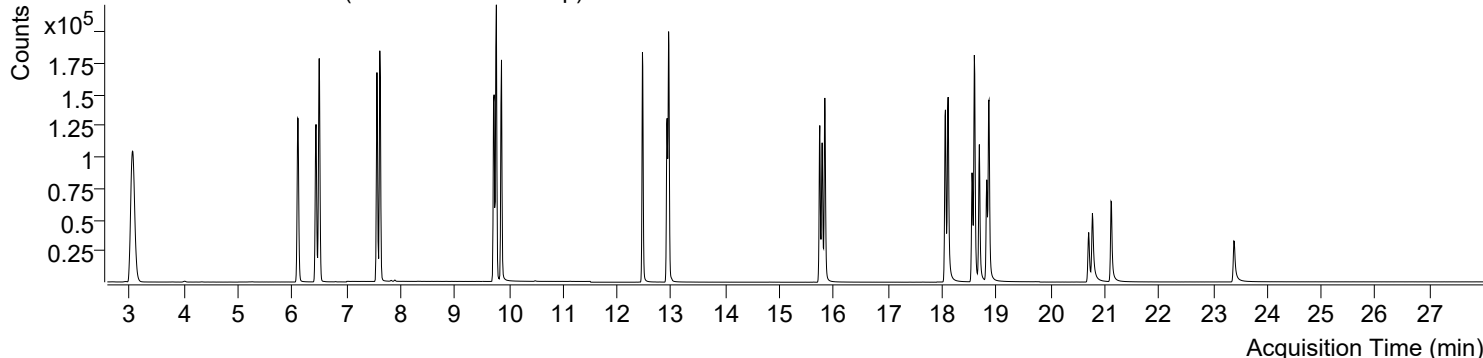


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-08 오후 8:42:30	Data File	221208-PAHs-007.D
Type	Sample	Name	PAHs-19mix-STD-1p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

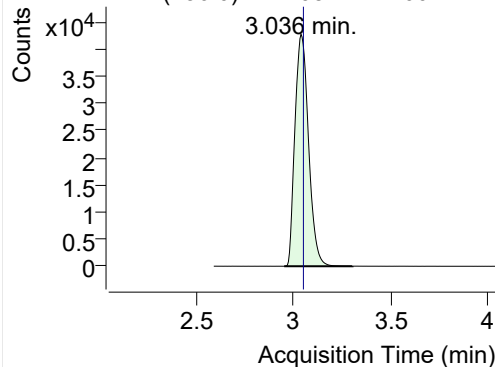
+ TIC SIM 221208-PAHs-007.D (PAHs-19mix-STD-1p)



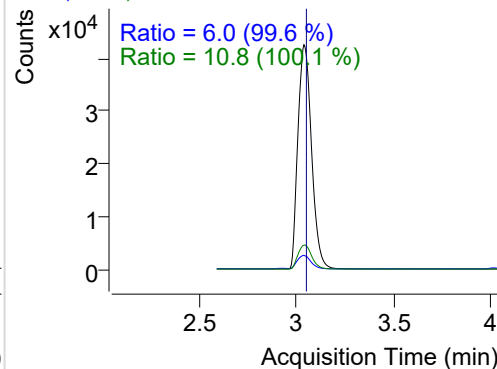
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	207498	42576.39	ND ng/ml	10.8
Naphthalene	3.063	128.0	248130	51075.61	ND ng/ml	12.5
Acenaphthylene	6.102	152.0	206202	98309.60	ND ng/ml	19.0
IS-D10-Acenaphthene	6.439	164.0	117562	61061.55	ND ng/ml	93.0
Acenaphthene	6.498	154.0	125487	65051.25	ND ng/ml	104.3
LSS-D10-Fluorene	7.564	176.0	124281	76263.73	ND ng/ml	90.2
Fluorene	7.617	166.0	157690	88573.25	ND ng/ml	90.3
IS-D10-Phenanthrene	9.727	188.0	203582	121941.3	ND ng/ml	15.0
Phenanthrene	9.769	178.0	236322	147019.8	ND ng/ml	18.4
Anthracene	9.864	178.0	191675	120489.5	ND ng/ml	17.9
Fluoranthene	12.467	202.0	220158	141124.7	ND ng/ml	17.1
LSS-D10-Pyrene	12.922	212.0	153882	94374.38	ND ng/ml	18.7
Pyrene	12.949	202.0	238841	146270.4	ND ng/ml	17.7
Benz(a)anthracene	15.741	228.0	142176	86300.79	ND ng/ml	25.5
IS-D12-Chrysene	15.784	240.0	140359	78716.55	ND ng/ml	18.8
Chrysene	15.833	228.0	174307	97570.87	ND ng/ml	27.9
Benzo(b)fluoranthene	18.060	252.0	142316	81544.14	ND ng/ml	21.4
Benzo(k)fluoranthene	18.110	252.0	184941	86788.31	ND ng/ml	21.7
SS-D12-Benzo(e)pyrene	18.551	264.0	114400	58866.39	ND ng/ml	24.8
Benzo(e)pyrene	18.594	252.0	179501	96385.34	ND ng/ml	21.6
Benzo(a)pyrene	18.687	252.0	120115	63126.23	ND ng/ml	20.8
IS-D12-Perylene	18.822	264.0	101794	53249.73	ND ng/ml	24.1
Perylene	18.865	252.0	152646	76009.60	ND ng/ml	21.3
Indeno(1,2,3-c,d)pyrene	20.705	276.0	69490	31448.00	ND ng/ml	22.4
Dibenz(a,h)anthracene	20.774	278.0	79299	28657.08	ND ng/ml	22.5
Benzo(g,h,i)perylene	21.125	276.0	114624	50699.57	ND ng/ml	24.1
Coronene	23.393	300.0	62590	21084.98	ND ng/ml	30.3

IS-D8-Naphthalene

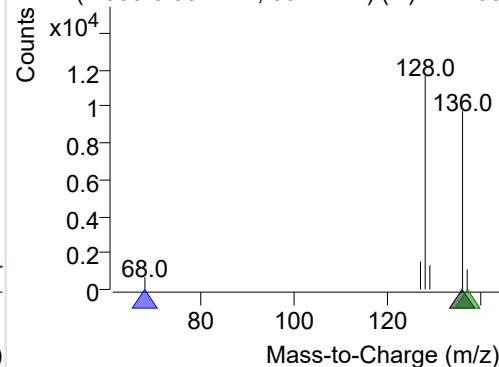
+ Selected Ion (136.0) 221208-PAHs-007.D



136.0, 68.0, 137.0

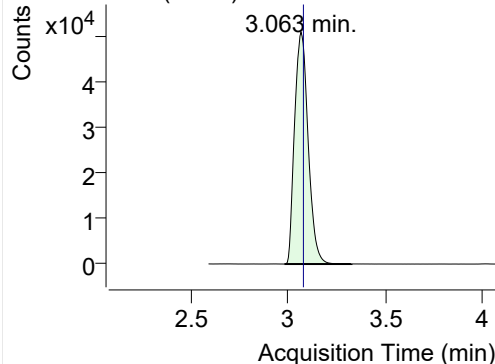


+ SIM (2.950-3.302 min, 66 scans) (**) 221208

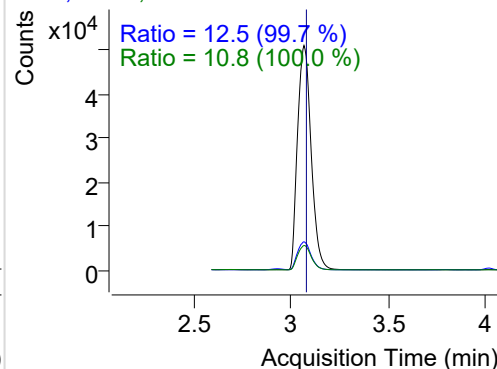


Naphthalene

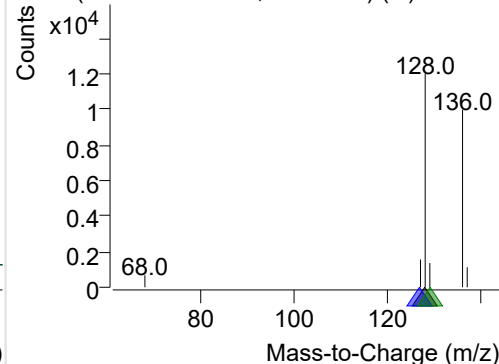
+ Selected Ion (128.0) 221208-PAHs-007.D



128.0, 127.0, 129.0

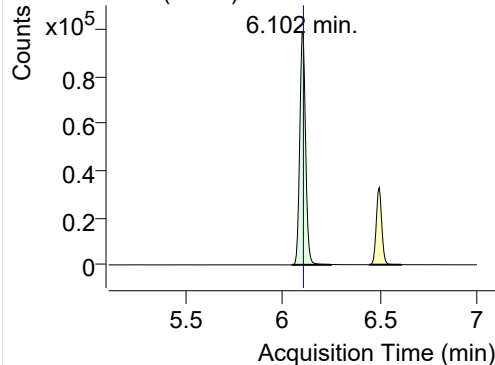


+ SIM (2.978-3.323 min, 64 scans) (**) 221208

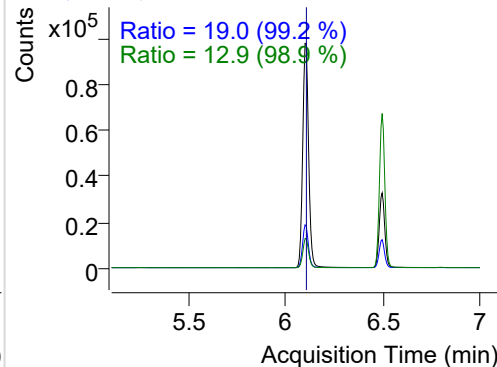


Acenaphthylene

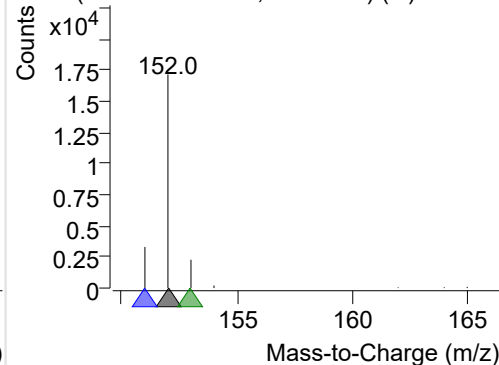
+ Selected Ion (152.0) 221208-PAHs-007.D



152.0, 151.0, 153.0

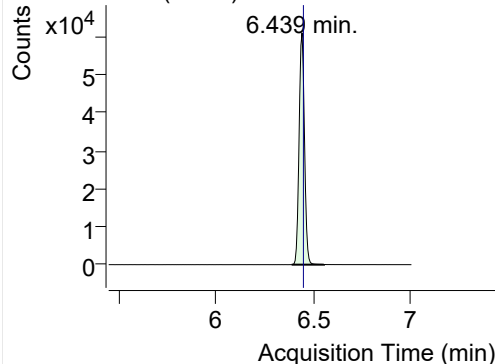


+ SIM (6.049-6.250 min, 34 scans) (**) 221208

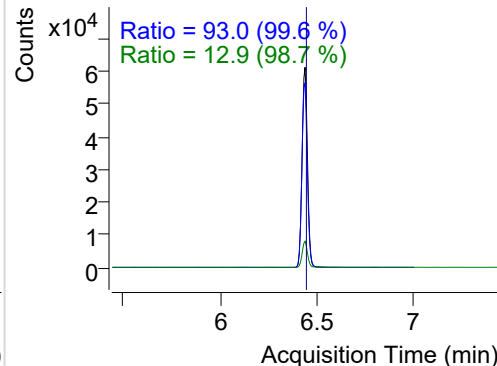


IS-D10-Acenaphthene

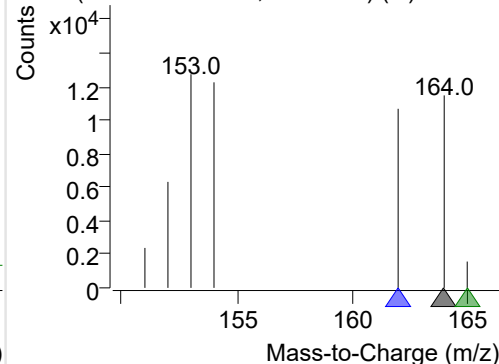
+ Selected Ion (164.0) 221208-PAHs-007.D



164.0, 162.0, 165.0

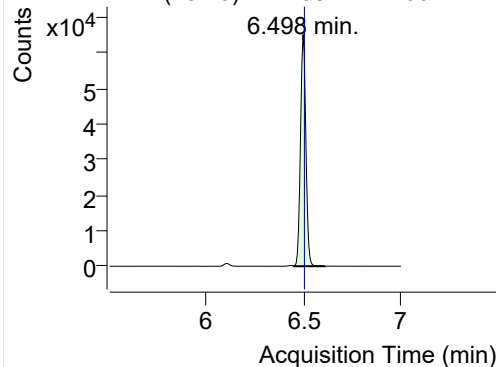


+ SIM (6.386-6.552 min, 29 scans) (**) 221208

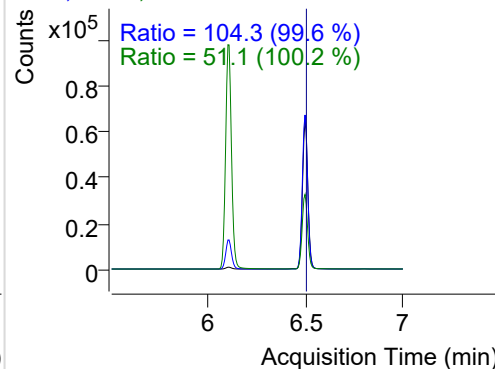


Acenaphthene

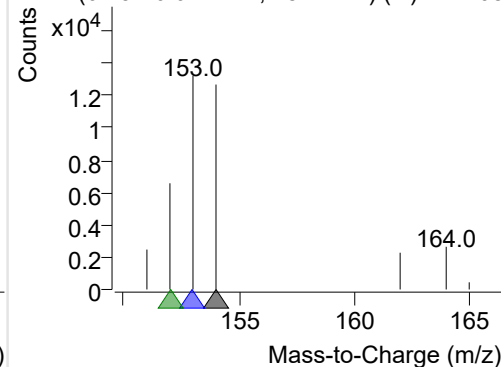
+ Selected Ion (154.0) 221208-PAHs-007.D



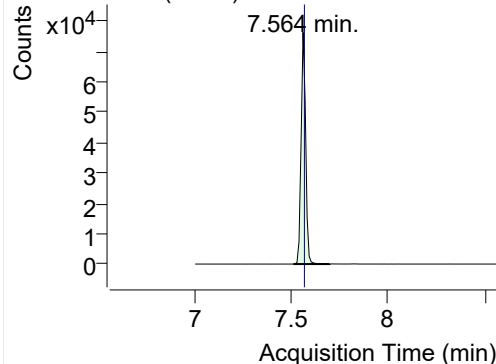
154.0, 153.0, 152.0



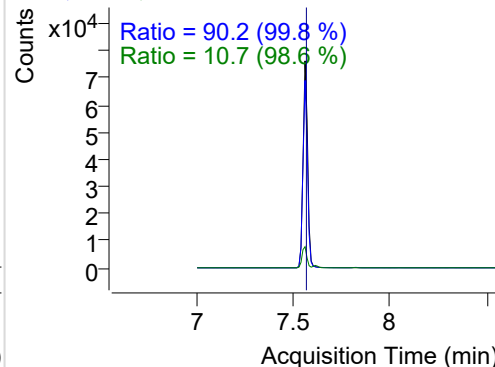
+ SIM (6.451-6.611 min, 28 scans) (**) 221208

**LSS-D10-Fluorene**

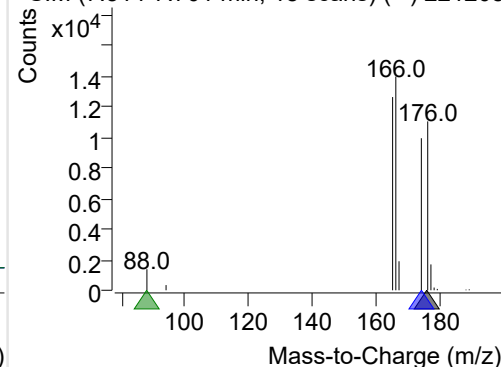
+ Selected Ion (176.0) 221208-PAHs-007.D



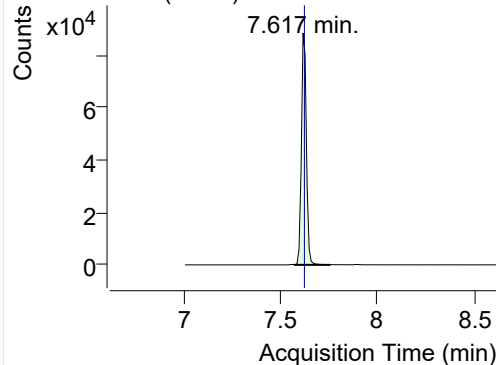
176.0, 174.0, 88.0



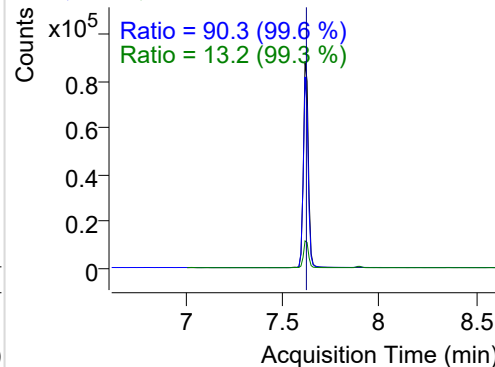
+ SIM (7.514-7.701 min, 18 scans) (**) 221208

**Fluorene**

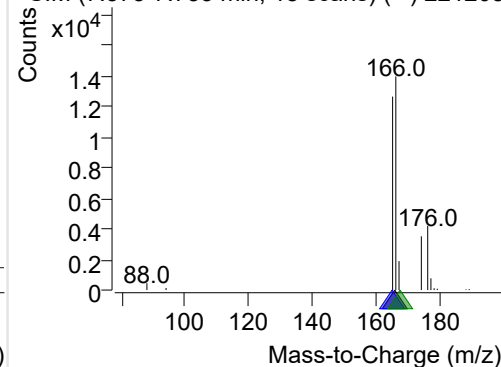
+ Selected Ion (166.0) 221208-PAHs-007.D



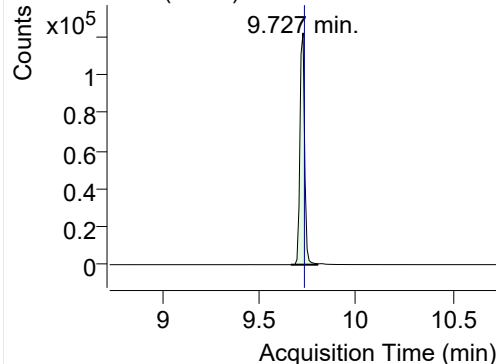
166.0, 165.0, 167.0



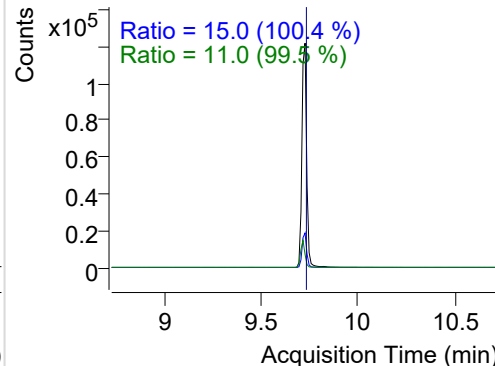
+ SIM (7.575-7.753 min, 18 scans) (**) 221208

**IS-D10-Phenanthrene**

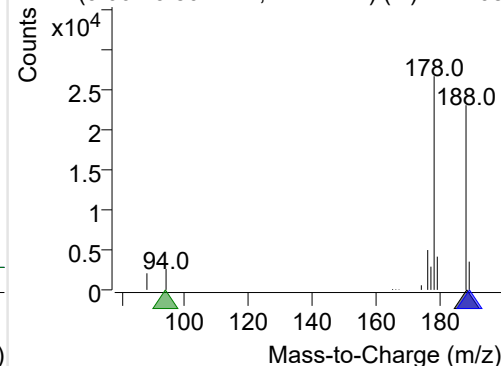
+ Selected Ion (188.0) 221208-PAHs-007.D



188.0, 189.0, 94.0

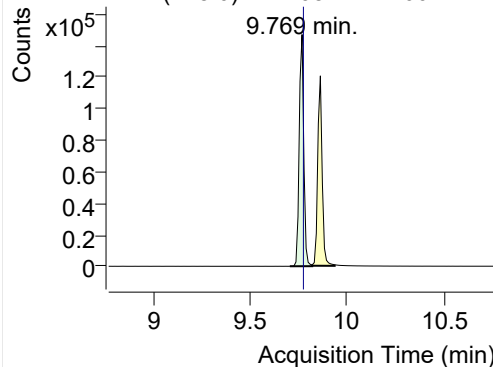


+ SIM (9.664-9.801 min, 14 scans) (**) 221208

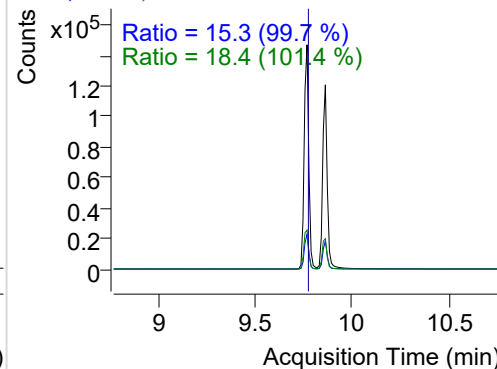


Phenanthrene

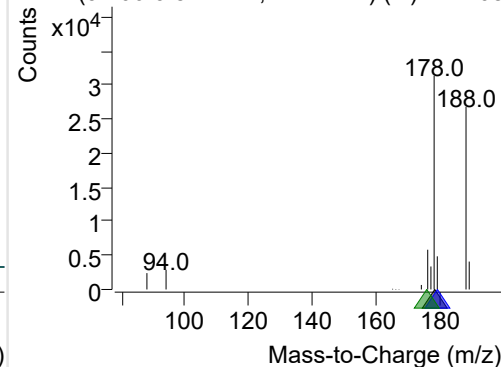
+ Selected Ion (178.0) 221208-PAHs-007.D



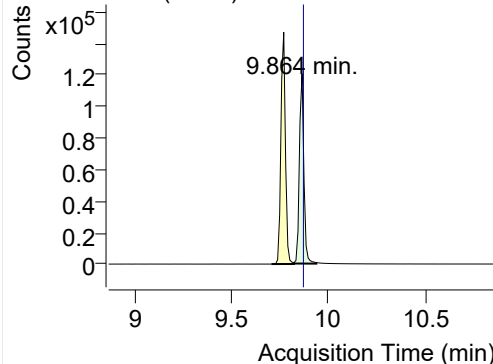
178.0, 179.0, 176.0



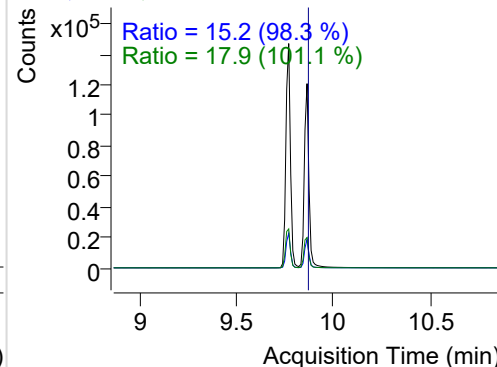
+ SIM (9.706-9.822 min, 12 scans) (**) 221208

**Anthracene**

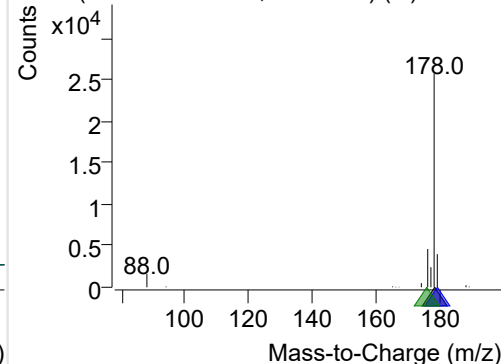
+ Selected Ion (178.0) 221208-PAHs-007.D



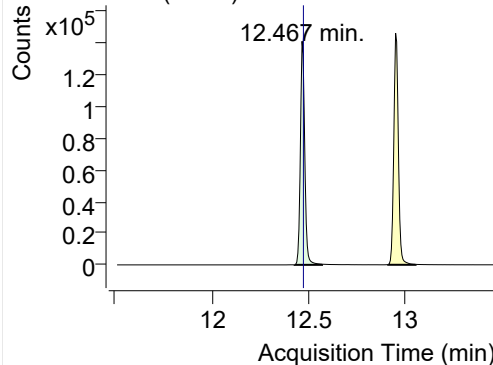
178.0, 179.0, 176.0



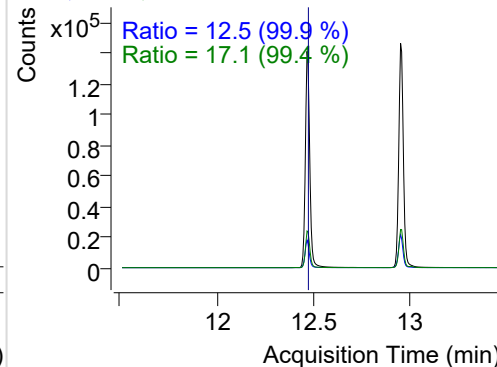
+ SIM (9.822-9.937 min, 12 scans) (**) 221208

**Fluoranthene**

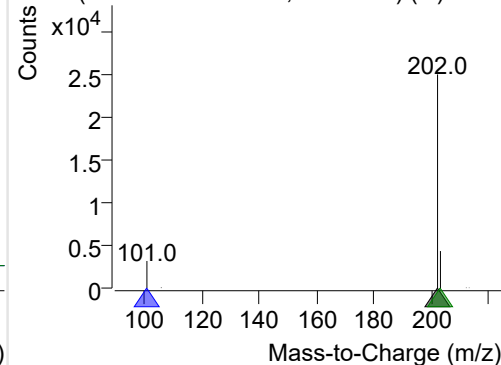
+ Selected Ion (202.0) 221208-PAHs-007.D



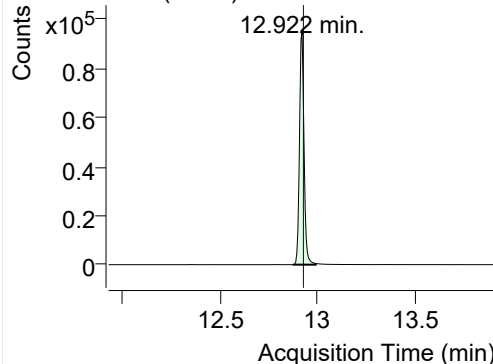
202.0, 101.0, 203.0



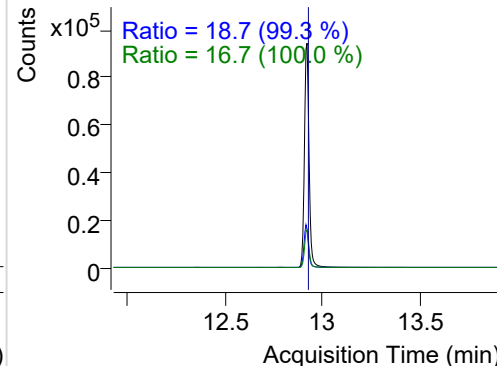
+ SIM (12.429-12.570 min, 27 scans) (**) 2212

**LSS-D10-Pyrene**

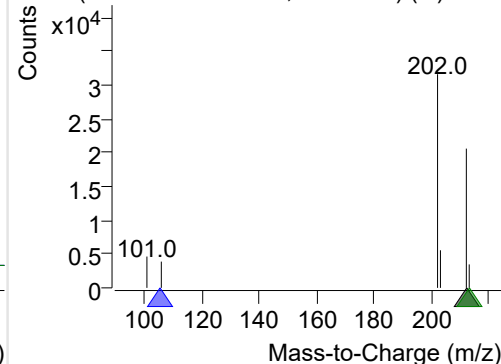
+ Selected Ion (212.0) 221208-PAHs-007.D



212.0, 106.0, 213.0

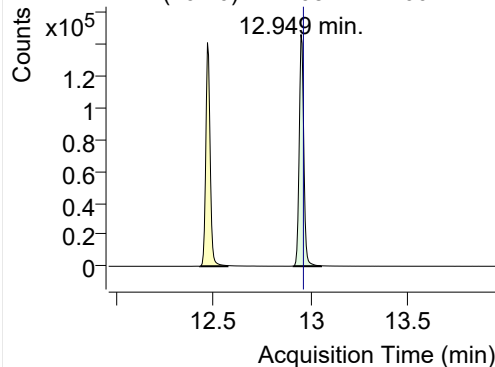


+ SIM (12.873-12.992 min, 23 scans) (**) 2212

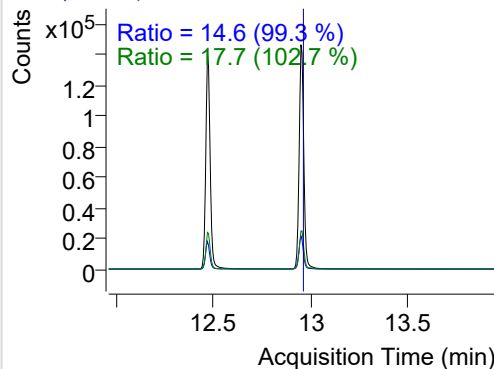


Pyrene

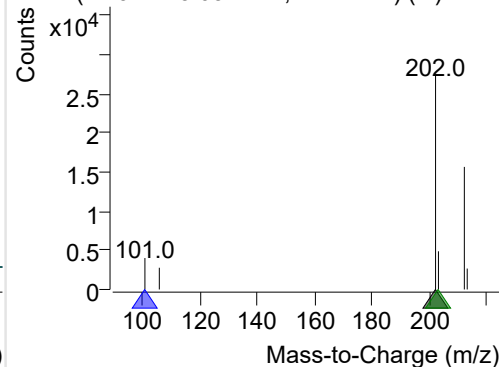
+ Selected Ion (202.0) 221208-PAHs-007.D



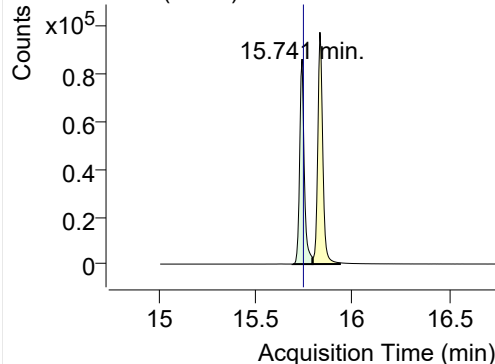
202.0, 101.0, 203.0



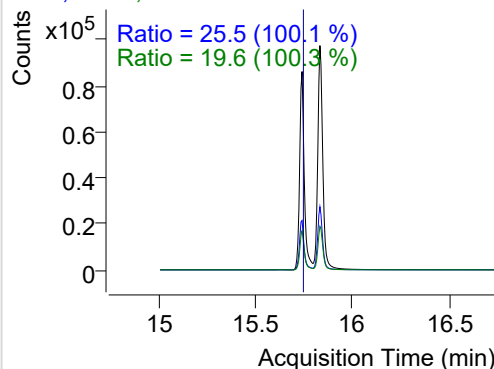
+ SIM (12.911-13.052 min, 27 scans) (**) 2212

**Benz(a)anthracene**

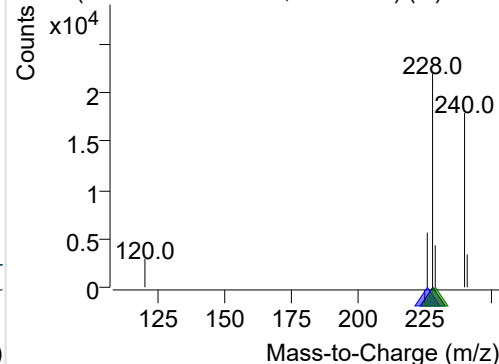
+ Selected Ion (228.0) 221208-PAHs-007.D



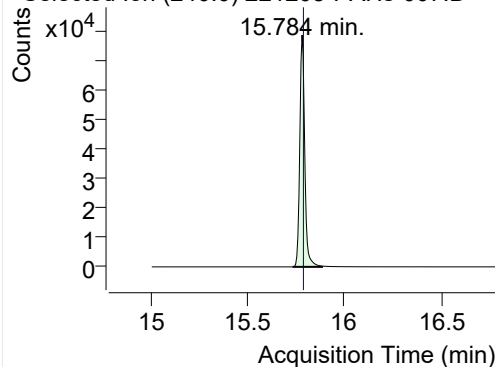
228.0, 226.0, 229.0



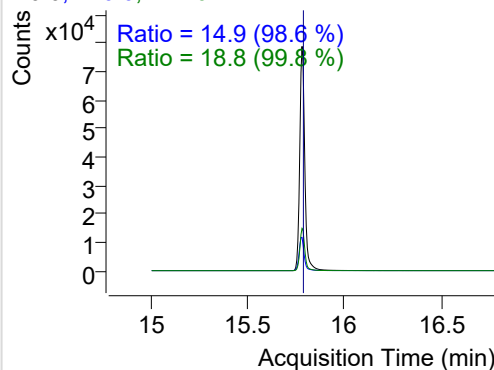
+ SIM (15.692-15.795 min, 20 scans) (**) 2212

**IS-D12-Chrysene**

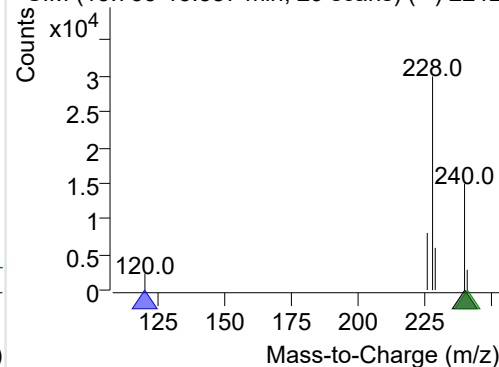
+ Selected Ion (240.0) 221208-PAHs-007.D



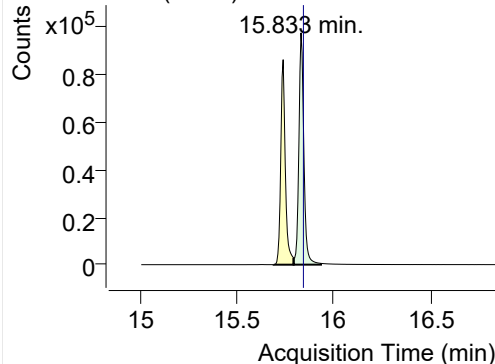
240.0, 120.0, 241.0



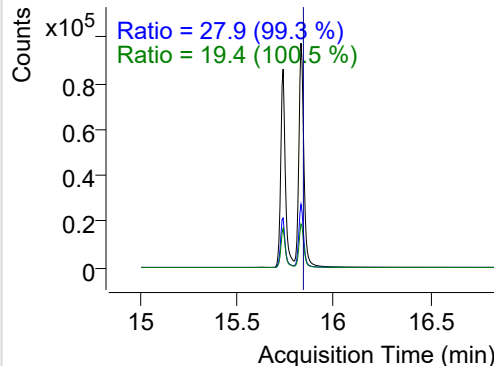
+ SIM (15.735-15.887 min, 29 scans) (**) 2212

**Chrysene**

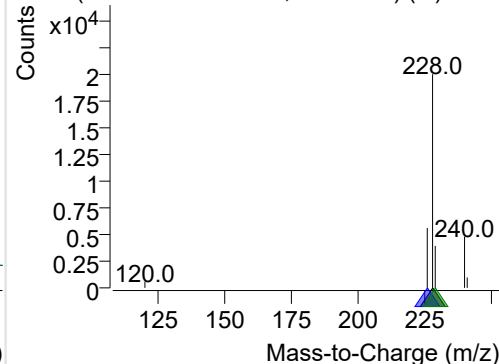
+ Selected Ion (228.0) 221208-PAHs-007.D



228.0, 226.0, 229.0

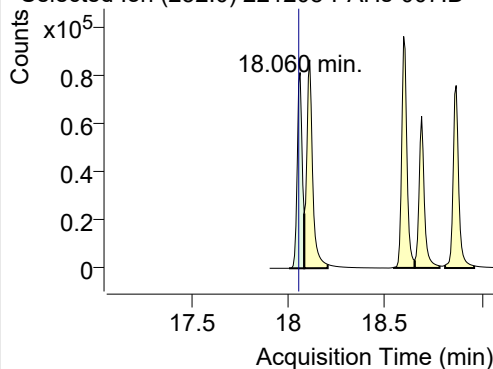


+ SIM (15.795-15.936 min, 27 scans) (**) 2212

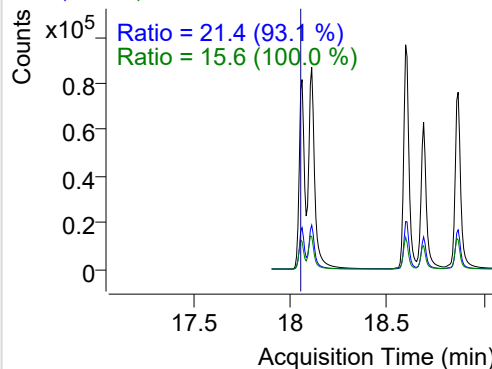


Benzo(b)fluoranthene

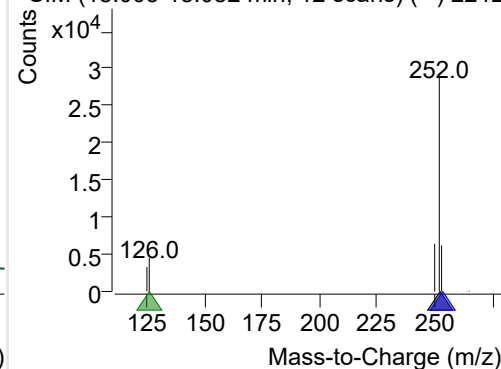
+ Selected Ion (252.0) 221208-PAHs-007.D



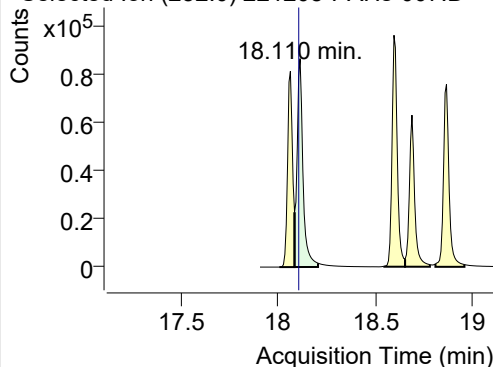
252.0, 253.0, 126.0



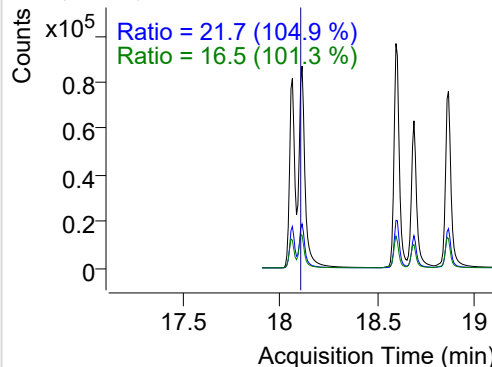
+ SIM (18.003-18.082 min, 12 scans) (**) 2212

**Benzo(k)fluoranthene**

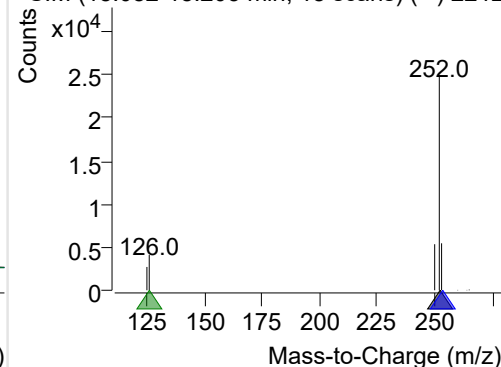
+ Selected Ion (252.0) 221208-PAHs-007.D



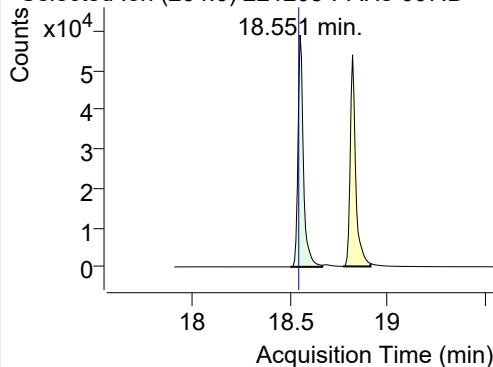
252.0, 253.0, 126.0



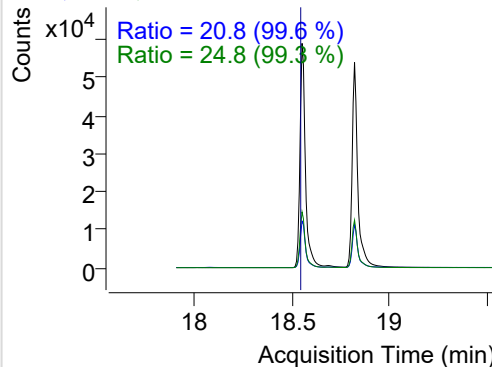
+ SIM (18.082-18.203 min, 18 scans) (**) 2212

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

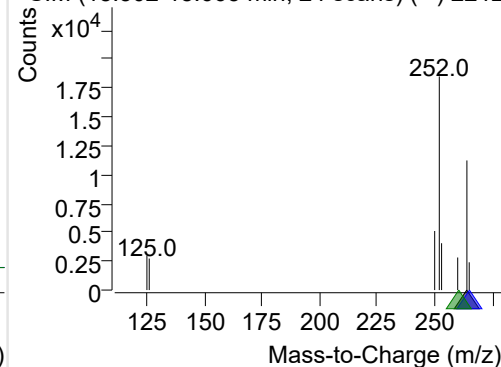
+ Selected Ion (264.0) 221208-PAHs-007.D



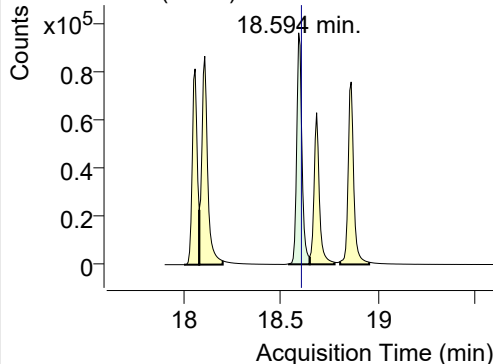
264.0, 265.0, 260.0



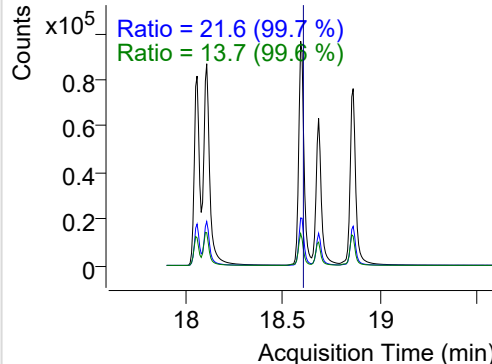
+ SIM (18.502-18.665 min, 24 scans) (**) 2212

**Benzo(e)pyrene**

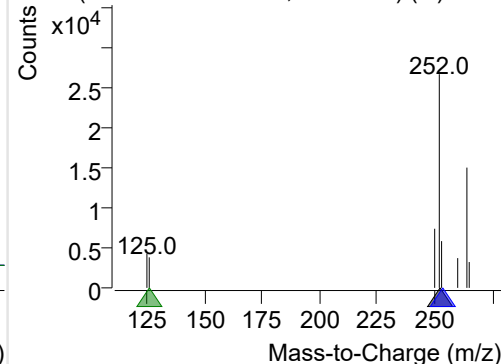
+ Selected Ion (252.0) 221208-PAHs-007.D



252.0, 253.0, 126.0

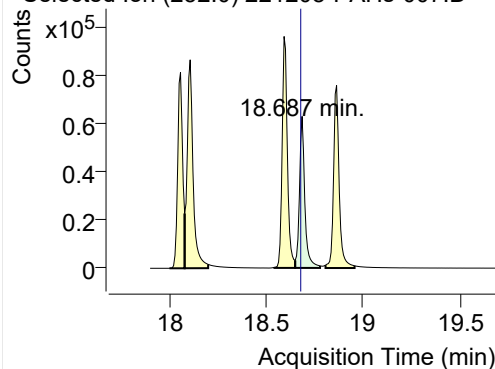


+ SIM (18.544-18.651 min, 16 scans) (**) 2212

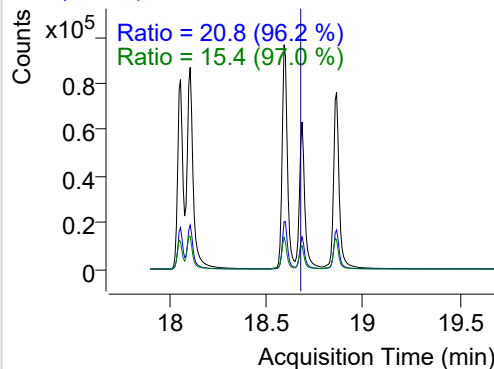


Benzo(a)pyrene

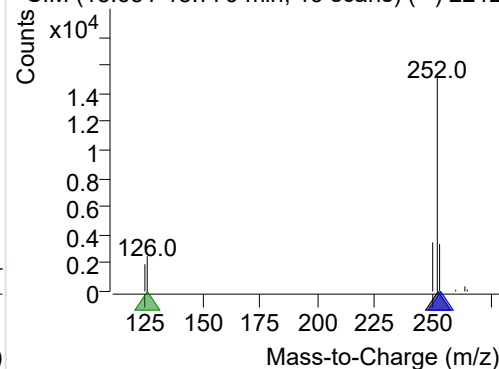
+ Selected Ion (252.0) 221208-PAHs-007.D



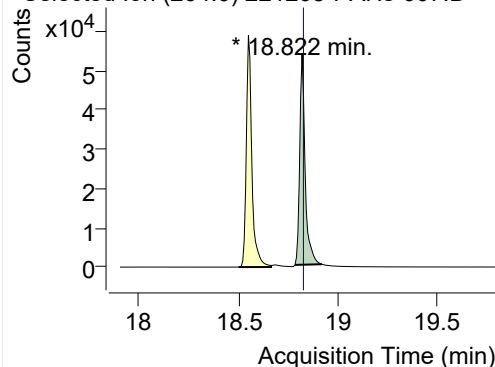
252.0, 253.0, 126.0



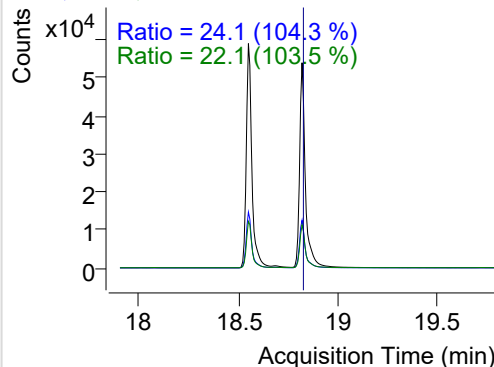
+ SIM (18.651-18.779 min, 19 scans) (**) 2212

**IS-D12-Perylene**

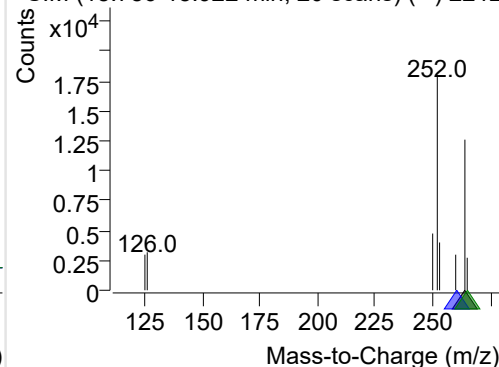
+ Selected Ion (264.0) 221208-PAHs-007.D



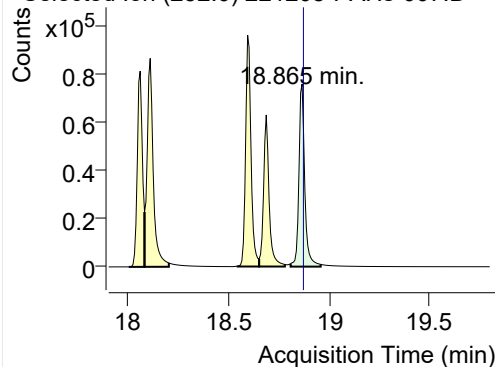
264.0, 260.0, 265.0



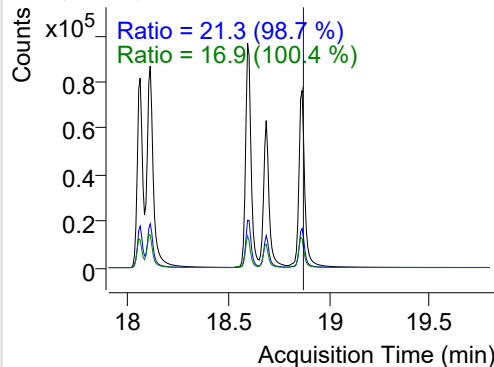
+ SIM (18.786-18.922 min, 20 scans) (**) 2212

**Perylene**

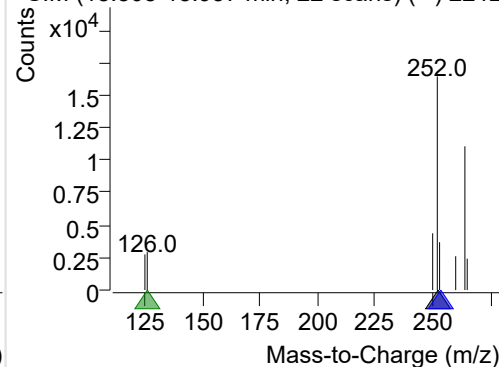
+ Selected Ion (252.0) 221208-PAHs-007.D



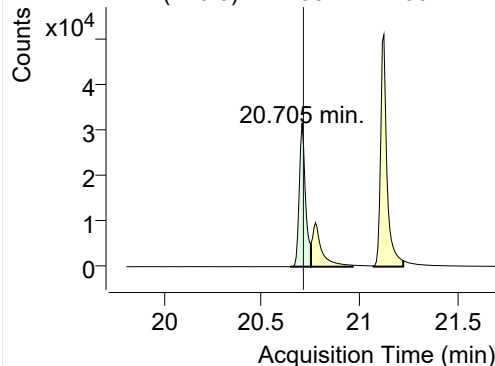
252.0, 253.0, 126.0



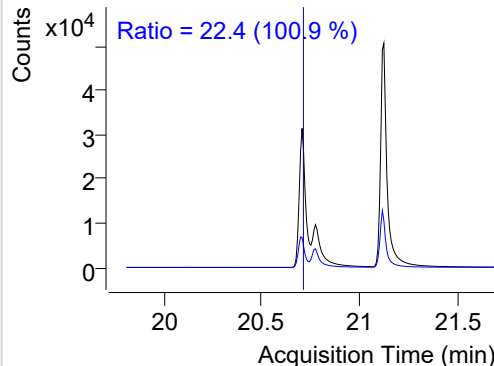
+ SIM (18.808-18.957 min, 22 scans) (**) 2212

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

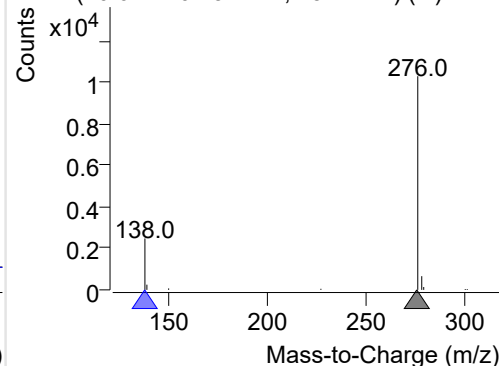
+ Selected Ion (276.0) 221208-PAHs-007.D



276.0, 138.0

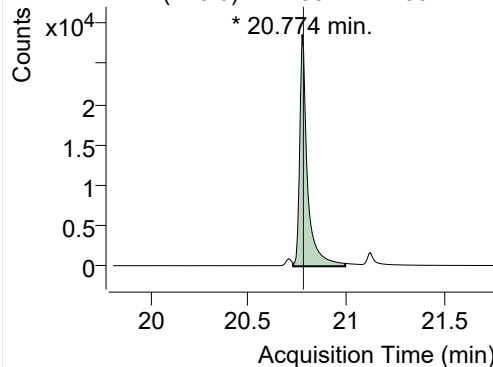


+ SIM (20.644-20.751 min, 15 scans) (**) 2212

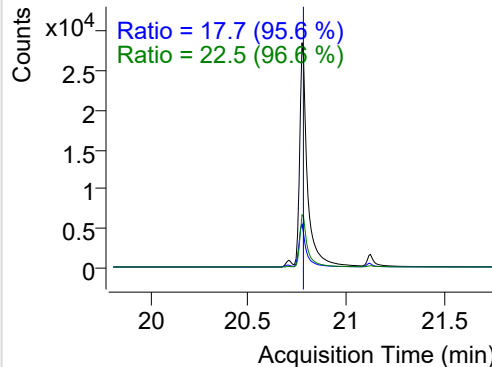


Dibenz(a,h)anthracene

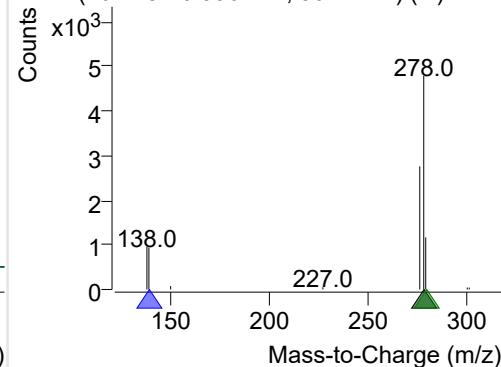
+ Selected Ion (278.0) 221208-PAHs-007.D



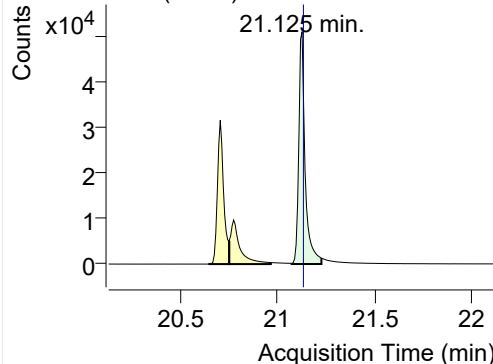
278.0, 139.0, 279.0



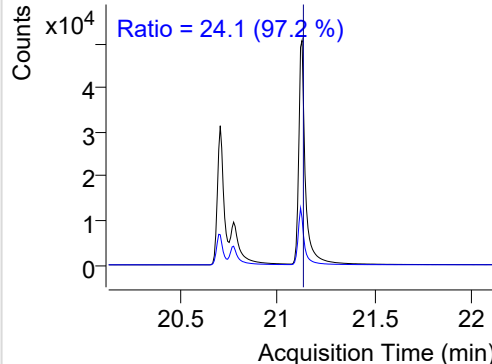
+ SIM (20.728-20.996 min, 36 scans) (**) 2212

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

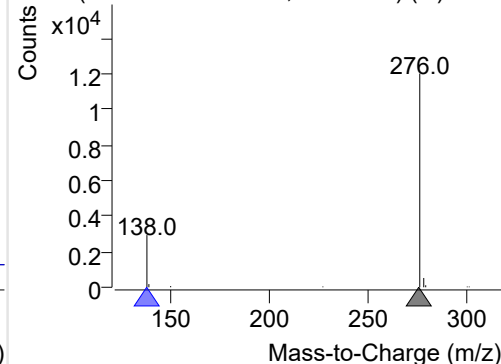
+ Selected Ion (276.0) 221208-PAHs-007.D



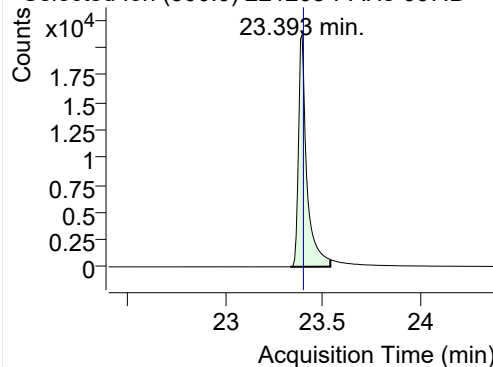
276.0, 138.0



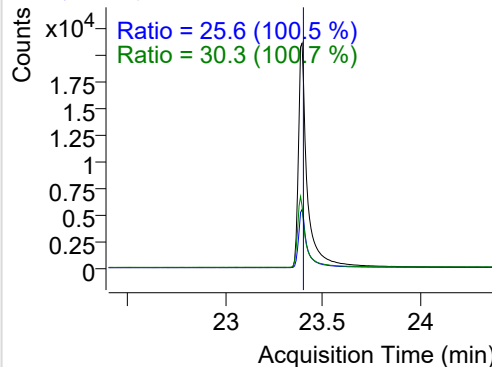
+ SIM (21.072-21.225 min, 21 scans) (**) 2212

**Coronene**

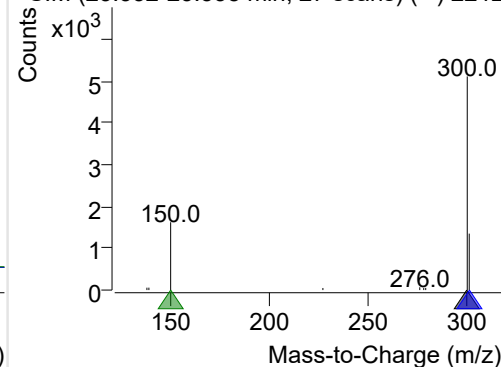
+ Selected Ion (300.0) 221208-PAHs-007.D



300.0, 301.0, 150.0



+ SIM (23.332-23.538 min, 27 scans) (**) 2212



Quantitative Analysis Sample Based Report

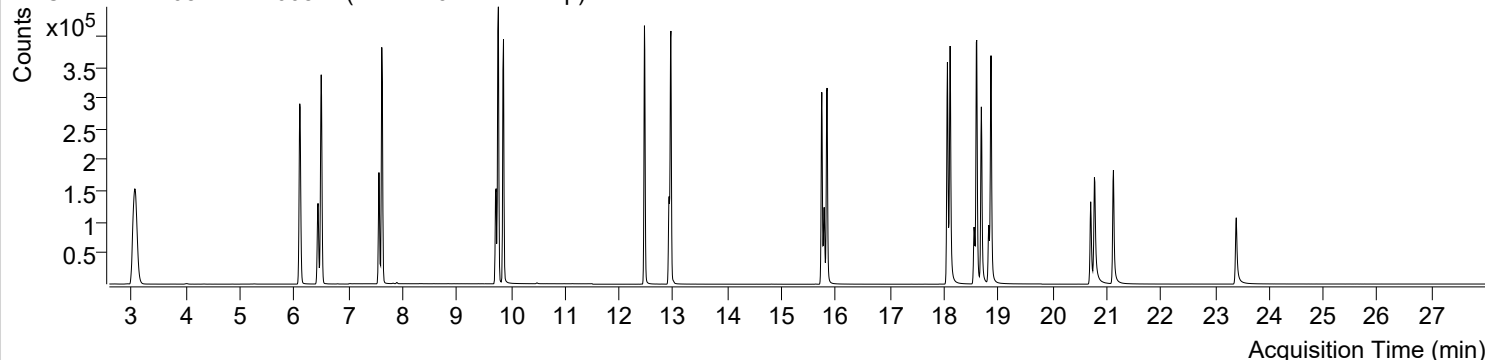


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-08 오후 9:13:43	Data File	221208-PAHs-008.D
Type	Sample	Name	PAHs-19mix-STD-2p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

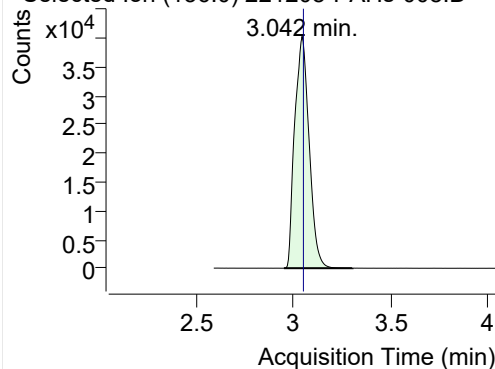
+ TIC SIM 221208-PAHs-008.D (PAHs-19mix-STD-2p)



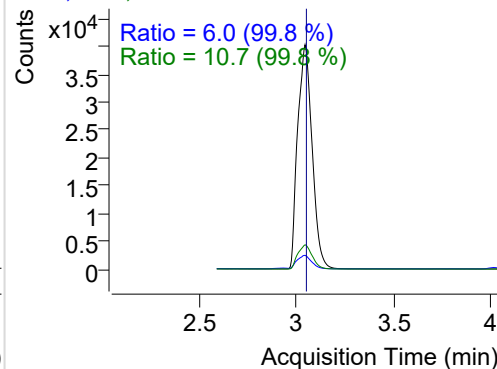
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	207509	40245.31	ND ng/ml	10.7
Naphthalene	3.069	128.0	496539	94526.77	ND ng/ml	12.5
Acenaphthylene	6.102	152.0	454996	218352.07	ND ng/ml	19.0
IS-D10-Acenaphthene	6.439	164.0	120986	63176.21	ND ng/ml	93.1
Acenaphthene	6.499	154.0	238024	123029.66	ND ng/ml	104.4
LSS-D10-Fluorene	7.564	176.0	129363	82424.67	ND ng/ml	90.0
Fluorene	7.617	166.0	319687	184382.95	ND ng/ml	90.1
IS-D10-Phenanthrene	9.727	188.0	207839	125501.17	ND ng/ml	15.0
Phenanthrene	9.769	178.0	492042	300573.21	ND ng/ml	18.2
Anthracene	9.864	178.0	429742	270093.32	ND ng/ml	17.5
Fluoranthene	12.467	202.0	486063	321466.85	ND ng/ml	17.2
LSS-D10-Pyrene	12.922	212.0	161810	99277.99	ND ng/ml	18.8
Pyrene	12.954	202.0	493813	307523.75	ND ng/ml	17.2
Benz(a)anthracene	15.741	228.0	353607	213327.82	ND ng/ml	25.4
IS-D12-Chrysene	15.784	240.0	150284	84986.45	ND ng/ml	18.8
Chrysene	15.838	228.0	375335	212876.73	ND ng/ml	28.1
Benzo(b)fluoranthene	18.060	252.0	346082	211661.79	ND ng/ml	23.0
Benzo(k)fluoranthene	18.110	252.0	436491	225244.55	ND ng/ml	20.7
SS-D12-Benzo(e)pyrene	18.552	264.0	122622	61739.99	ND ng/ml	25.0
Benzo(e)pyrene	18.601	252.0	398275	218501.46	ND ng/ml	21.7
Benzo(a)pyrene	18.687	252.0	310971	165005.48	ND ng/ml	21.3
IS-D12-Perylene	18.822	264.0	124953	61207.53	ND ng/ml	22.4
Perylene	18.865	252.0	359543	198131.73	ND ng/ml	21.5
Indeno(1,2,3-c,d)pyrene	20.705	276.0	194311	103559.10	ND ng/ml	23.6
Dibenz(a,h)anthracene	20.774	278.0	213465	88590.16	ND ng/ml	24.2
Benzo(g,h,i)perylene	21.125	276.0	299680	145481.41	ND ng/ml	24.4
Coronene	23.393	300.0	172129	69872.07	ND ng/ml	30.1

IS-D8-Naphthalene

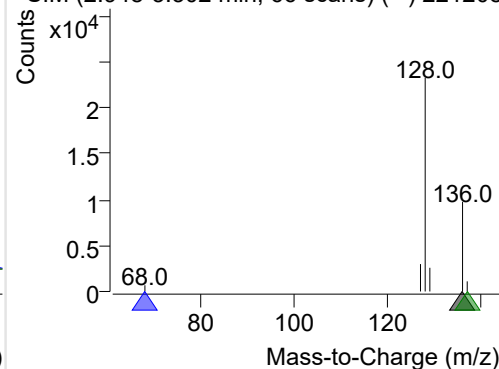
+ Selected Ion (136.0) 221208-PAHs-008.D



136.0, 68.0, 137.0

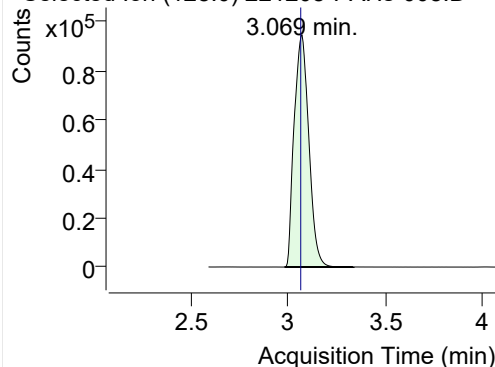


+ SIM (2.948-3.302 min, 66 scans) (**) 221208

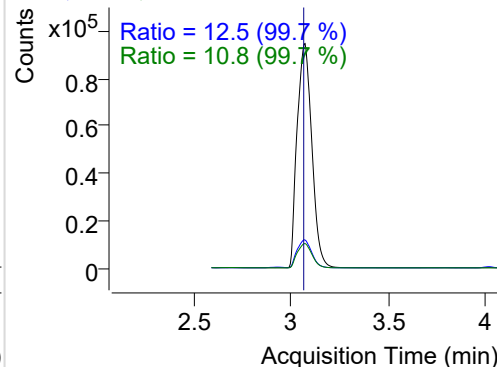


Naphthalene

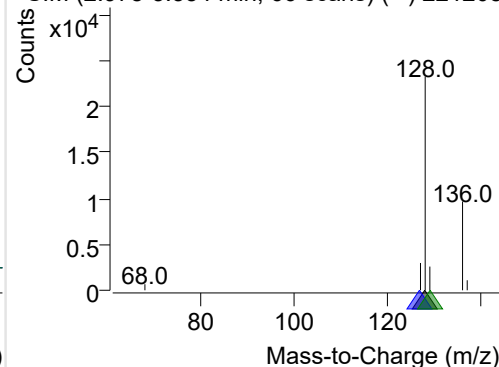
+ Selected Ion (128.0) 221208-PAHs-008.D



128.0, 127.0, 129.0

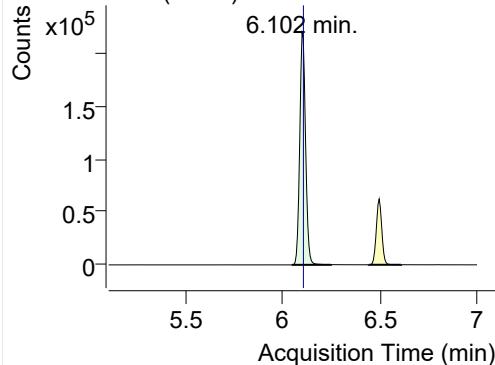


+ SIM (2.978-3.334 min, 66 scans) (**) 221208

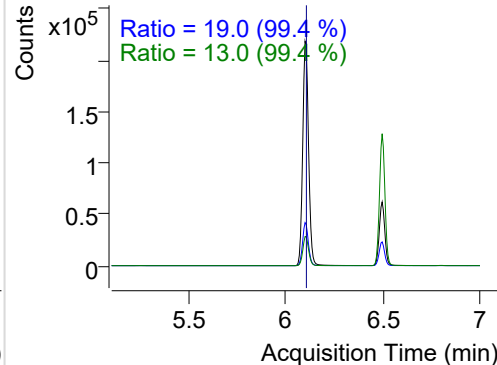


Acenaphthylene

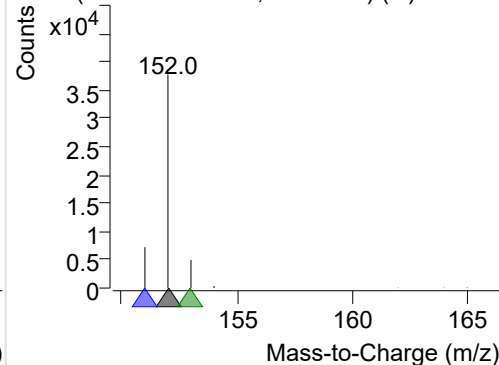
+ Selected Ion (152.0) 221208-PAHs-008.D



152.0, 151.0, 153.0

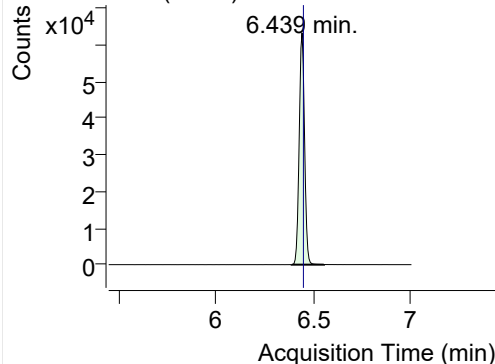


+ SIM (6.049-6.250 min, 34 scans) (**) 221208

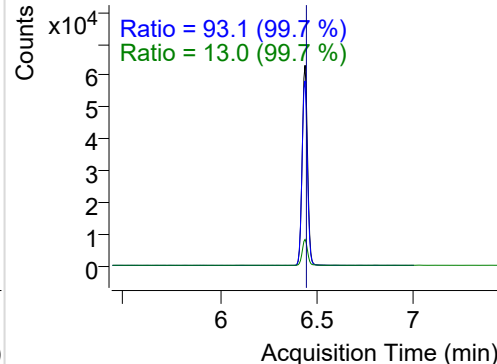


IS-D10-Acenaphthene

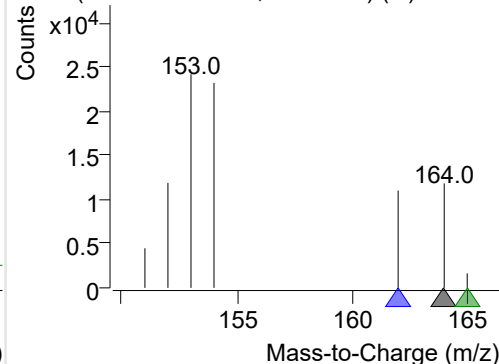
+ Selected Ion (164.0) 221208-PAHs-008.D



164.0, 162.0, 165.0

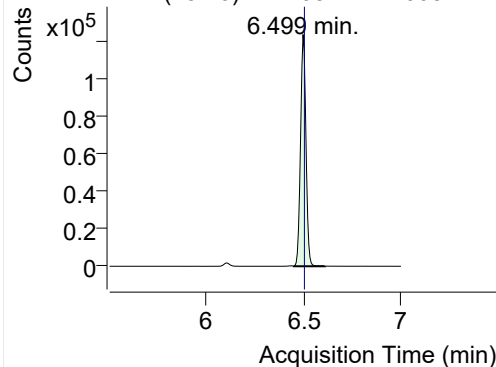


+ SIM (6.386-6.552 min, 29 scans) (**) 221208

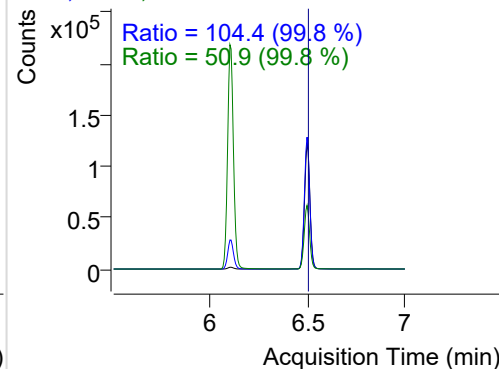


Acenaphthene

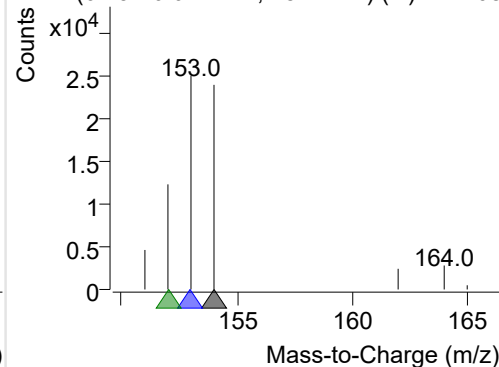
+ Selected Ion (154.0) 221208-PAHs-008.D



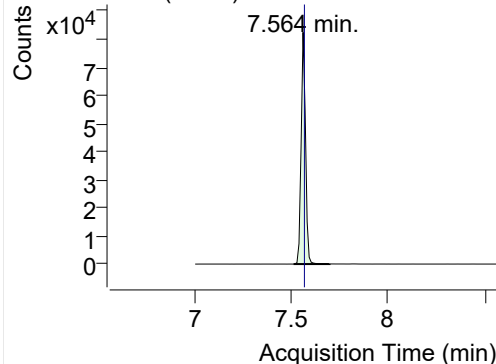
154.0, 153.0, 152.0



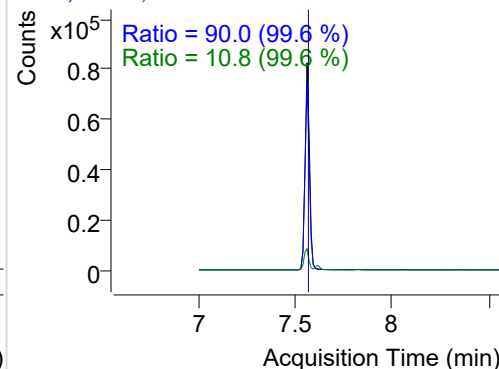
+ SIM (6.451-6.611 min, 28 scans) (**) 221208

**LSS-D10-Fluorene**

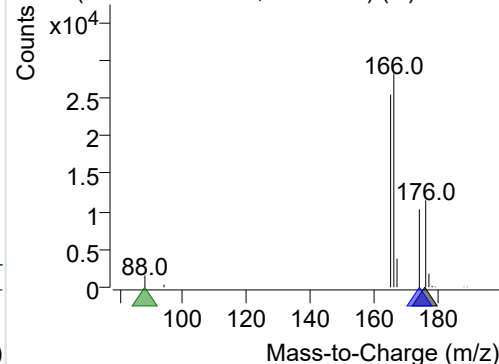
+ Selected Ion (176.0) 221208-PAHs-008.D



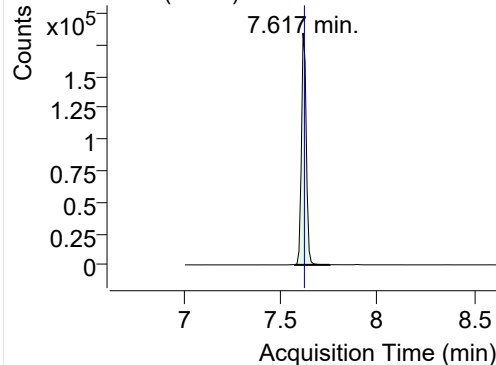
176.0, 174.0, 88.0



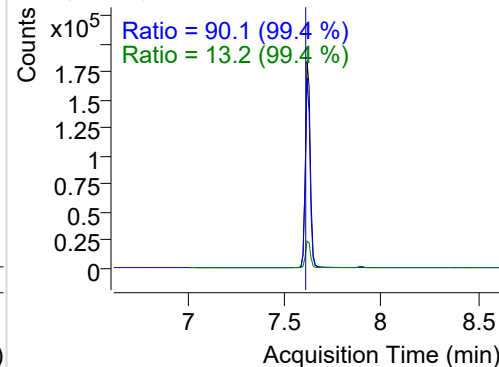
+ SIM (7.515-7.701 min, 18 scans) (**) 221208

**Fluorene**

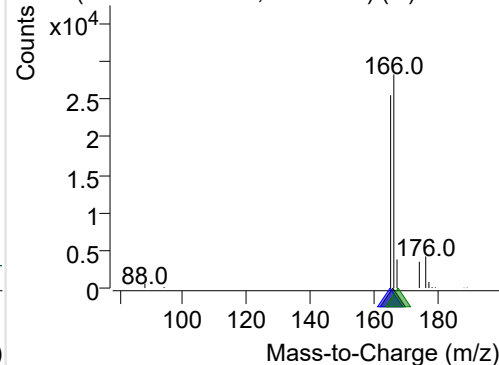
+ Selected Ion (166.0) 221208-PAHs-008.D



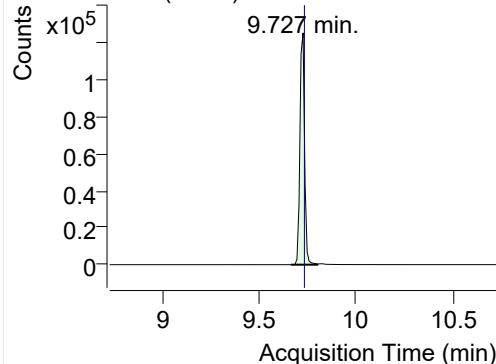
166.0, 165.0, 167.0



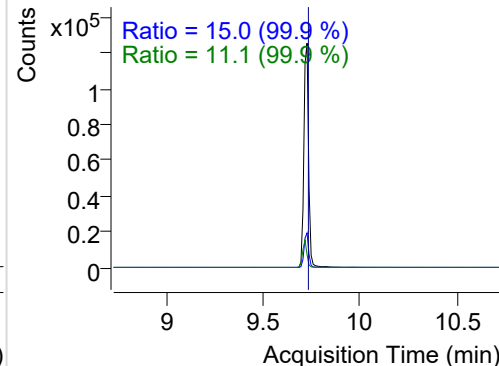
+ SIM (7.575-7.753 min, 18 scans) (**) 221208

**IS-D10-Phenanthrene**

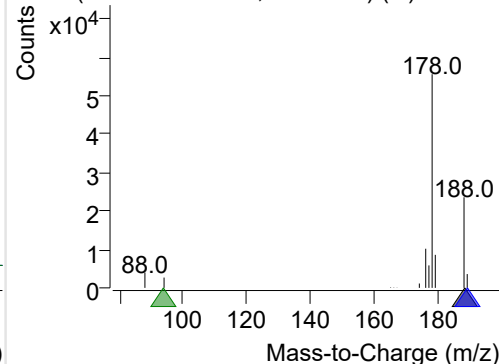
+ Selected Ion (188.0) 221208-PAHs-008.D



188.0, 189.0, 94.0

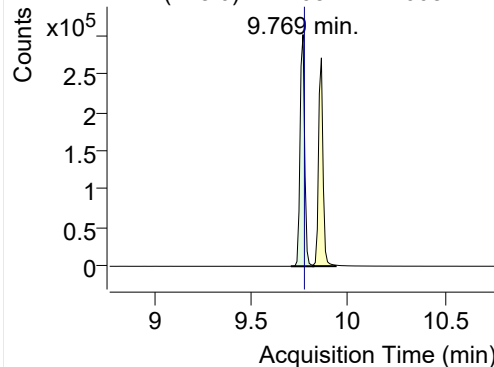


+ SIM (9.664-9.801 min, 14 scans) (**) 221208

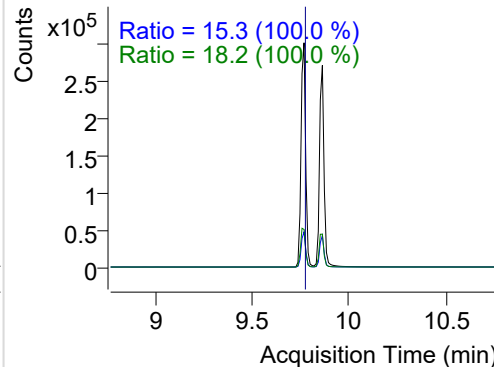


Phenanthrene

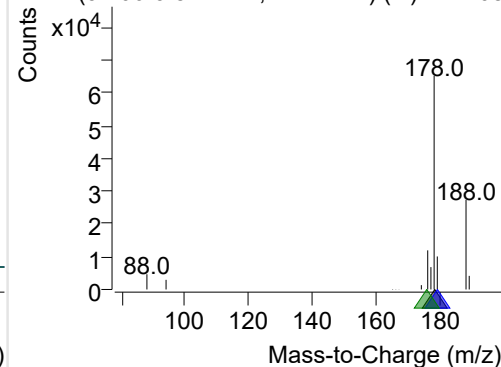
+ Selected Ion (178.0) 221208-PAHs-008.D



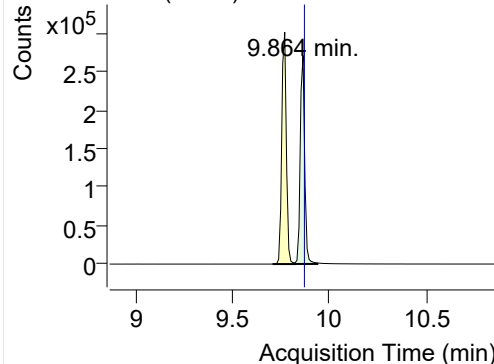
178.0, 179.0, 176.0



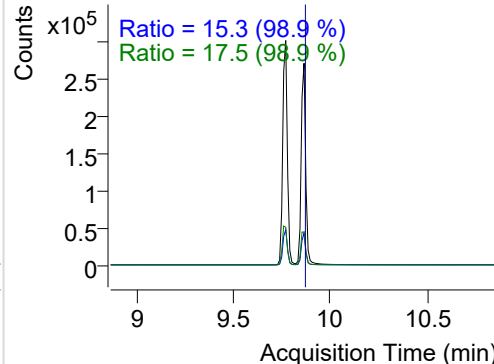
+ SIM (9.706-9.822 min, 12 scans) (**) 221208

**Anthracene**

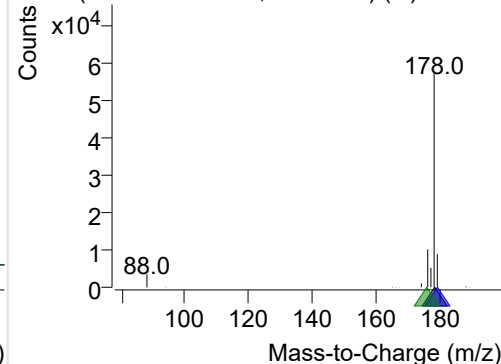
+ Selected Ion (178.0) 221208-PAHs-008.D



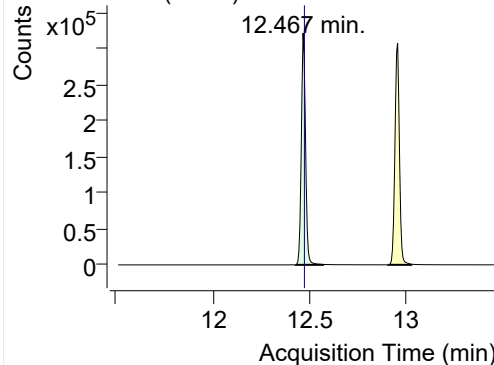
178.0, 179.0, 176.0



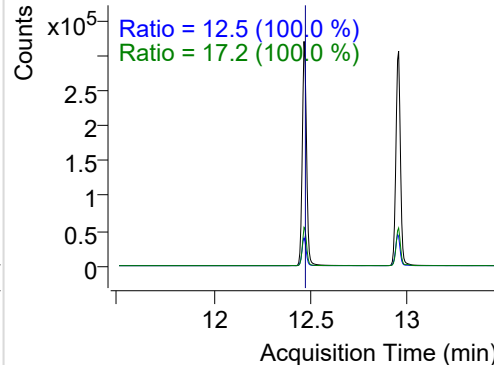
+ SIM (9.822-9.937 min, 12 scans) (**) 221208

**Fluoranthene**

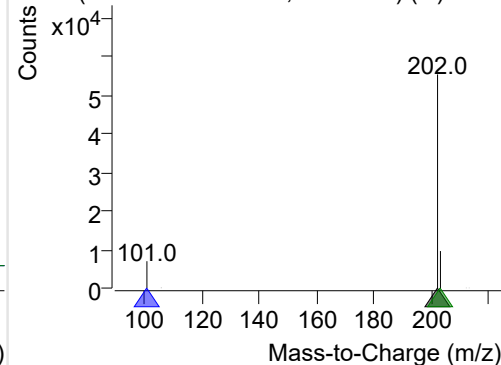
+ Selected Ion (202.0) 221208-PAHs-008.D



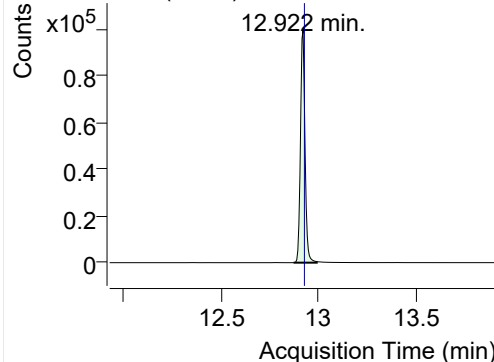
202.0, 101.0, 203.0



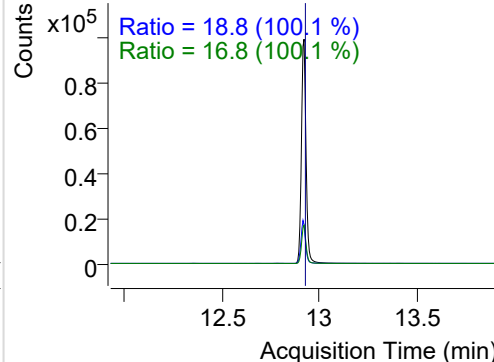
+ SIM (12.429-12.570 min, 27 scans) (**) 2212

**LSS-D10-Pyrene**

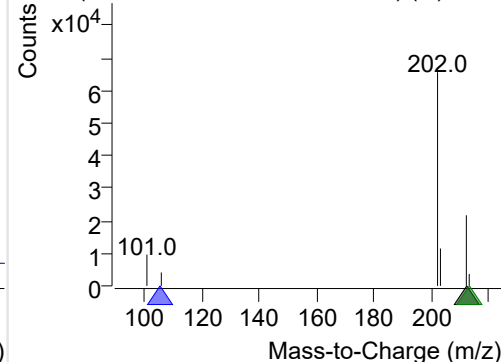
+ Selected Ion (212.0) 221208-PAHs-008.D



212.0, 106.0, 213.0

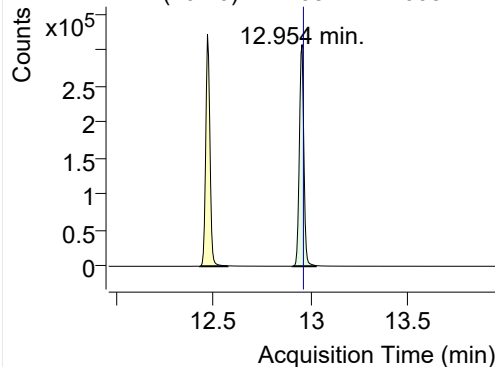


+ SIM (12.873-12.992 min, 23 scans) (**) 2212

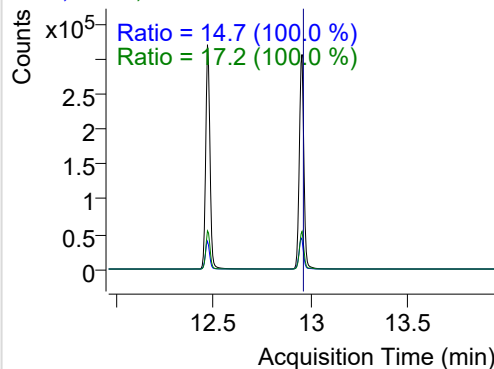


Pyrene

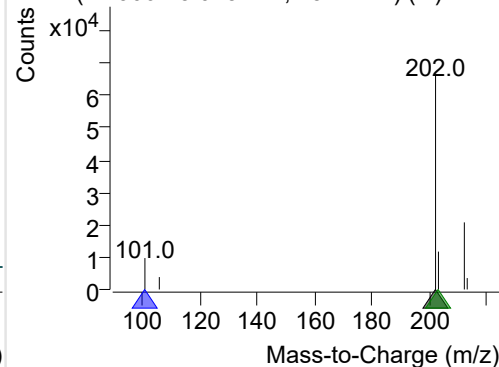
+ Selected Ion (202.0) 221208-PAHs-008.D



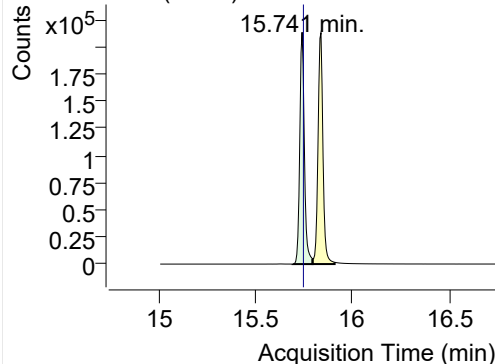
202.0, 101.0, 203.0



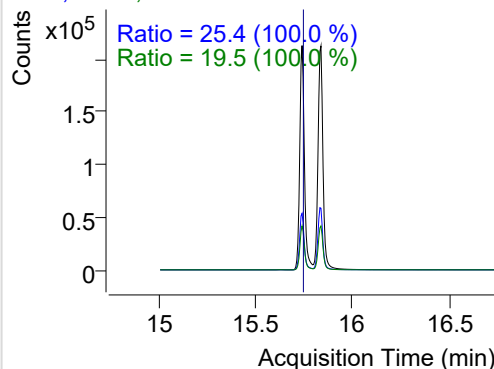
+ SIM (12.906-13.025 min, 23 scans) (**) 2212

**Benz(a)anthracene**

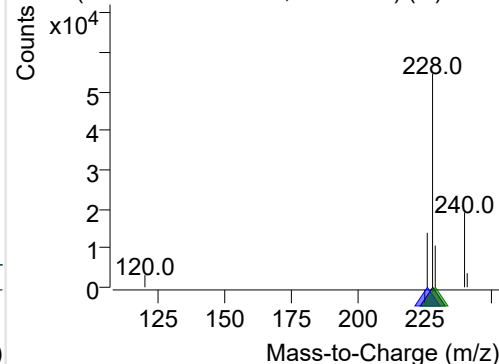
+ Selected Ion (228.0) 221208-PAHs-008.D



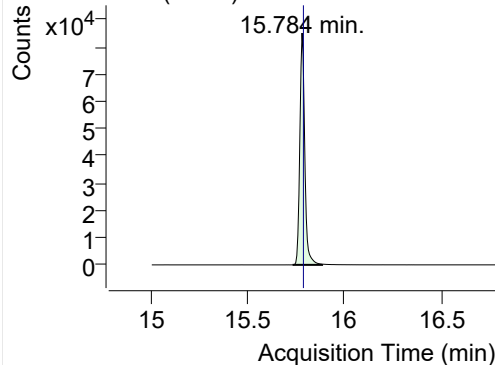
228.0, 226.0, 229.0



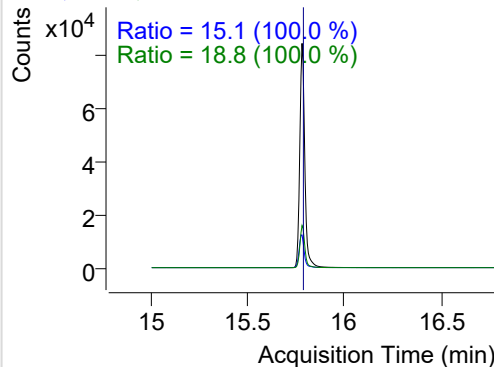
+ SIM (15.692-15.795 min, 20 scans) (**) 2212

**IS-D12-Chrysene**

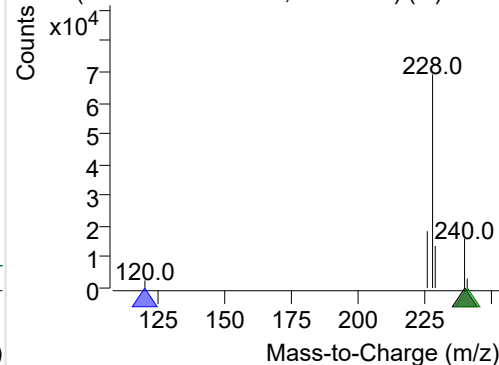
+ Selected Ion (240.0) 221208-PAHs-008.D



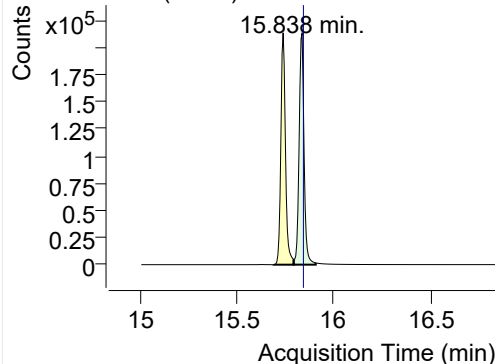
240.0, 120.0, 241.0



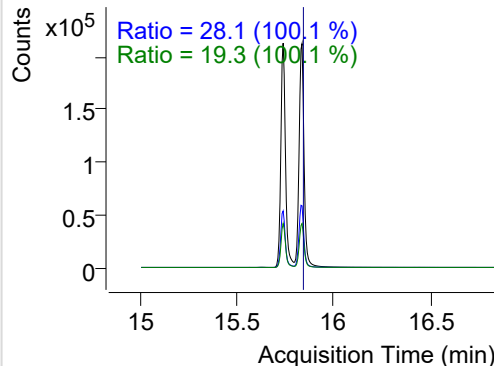
+ SIM (15.735-15.887 min, 29 scans) (**) 2212

**Chrysene**

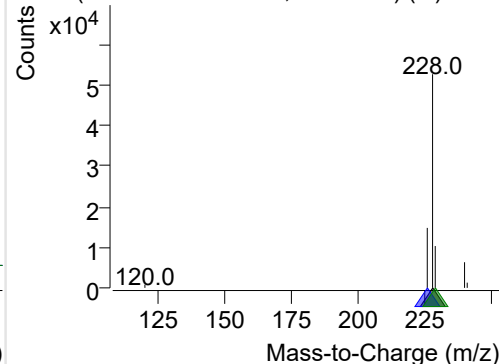
+ Selected Ion (228.0) 221208-PAHs-008.D



228.0, 226.0, 229.0

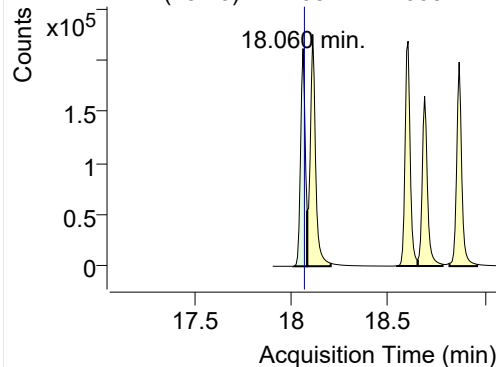


+ SIM (15.795-15.909 min, 22 scans) (**) 2212

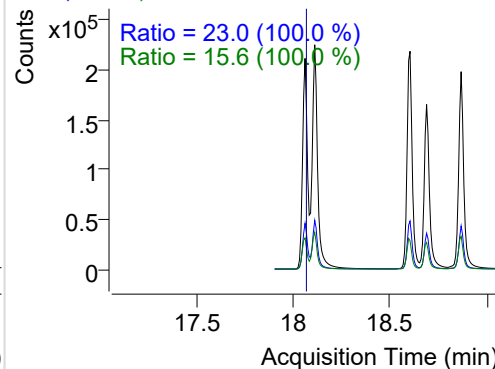


Benzo(b)fluoranthene

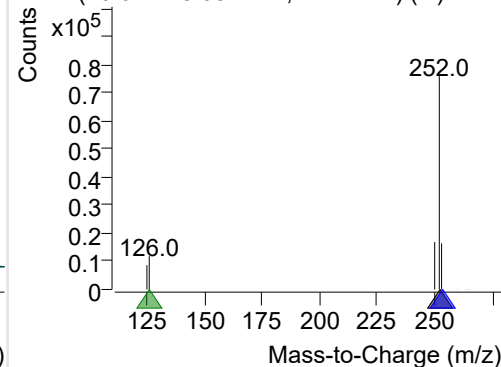
+ Selected Ion (252.0) 221208-PAHs-008.D



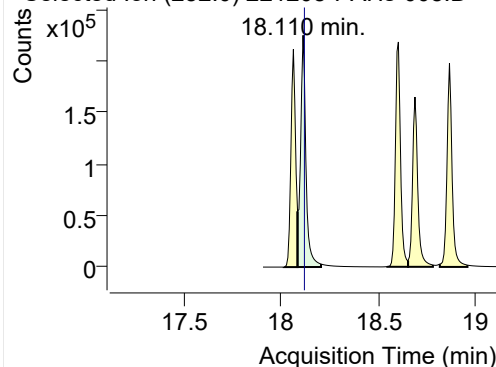
252.0, 253.0, 126.0



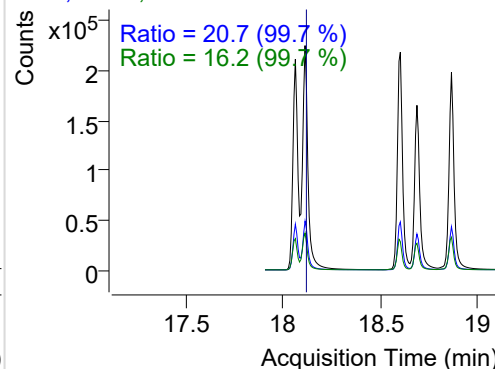
+ SIM (18.011-18.082 min, 11 scans) (**) 2212

**Benzo(k)fluoranthene**

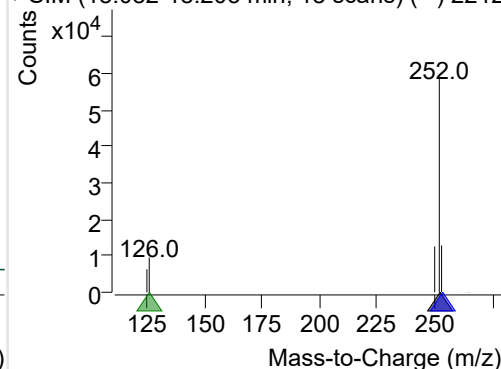
+ Selected Ion (252.0) 221208-PAHs-008.D



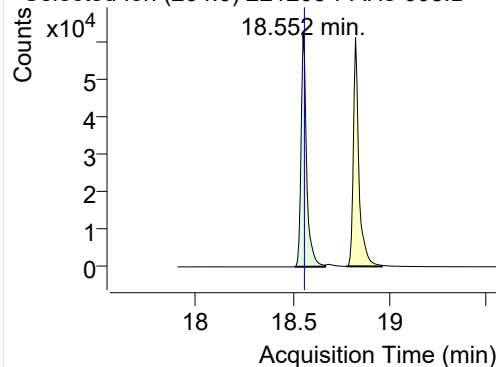
252.0, 253.0, 126.0



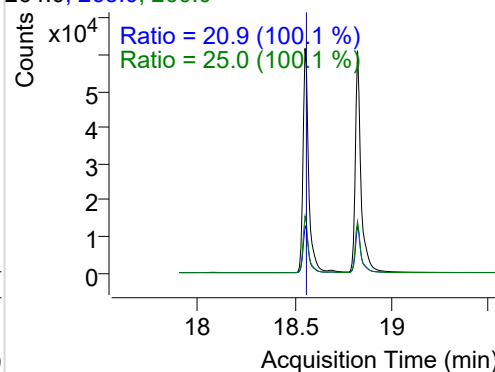
+ SIM (18.082-18.203 min, 18 scans) (**) 2212

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

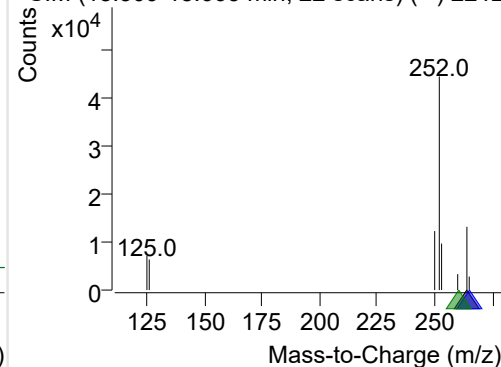
+ Selected Ion (264.0) 221208-PAHs-008.D



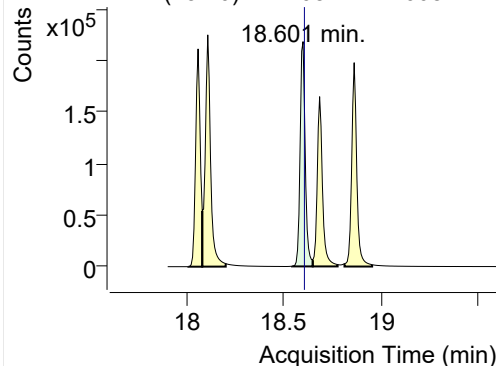
264.0, 265.0, 260.0



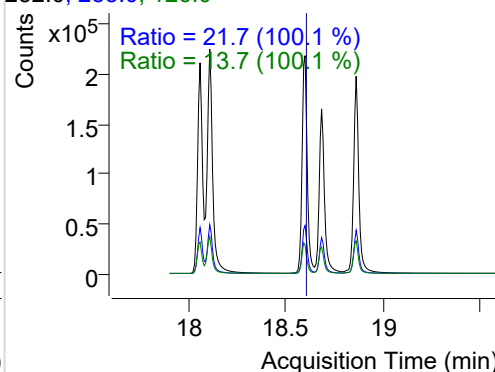
+ SIM (18.509-18.665 min, 22 scans) (**) 2212

**Benzo(e)pyrene**

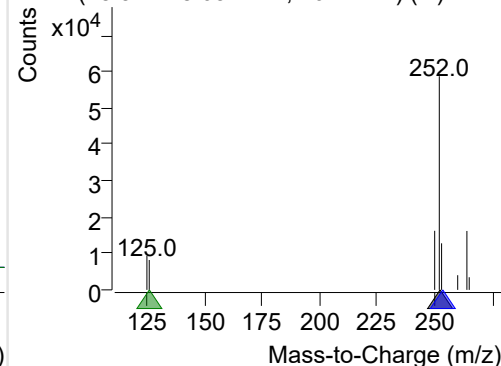
+ Selected Ion (252.0) 221208-PAHs-008.D



252.0, 253.0, 126.0

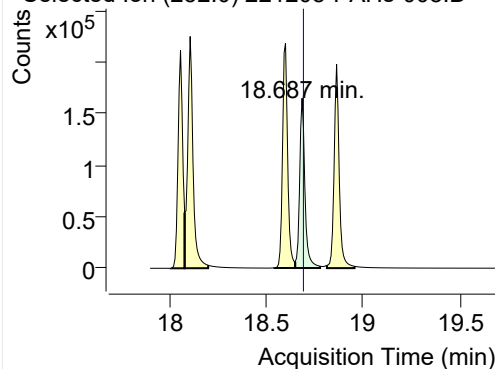


+ SIM (18.544-18.651 min, 16 scans) (**) 2212

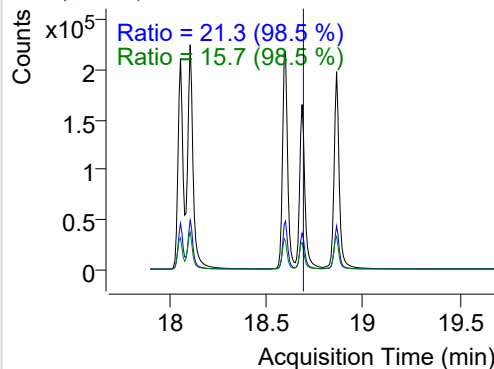


Benzo(a)pyrene

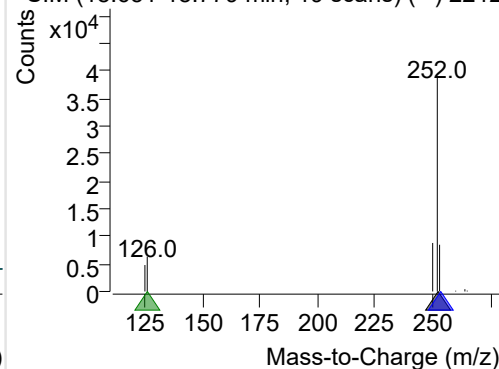
+ Selected Ion (252.0) 221208-PAHs-008.D



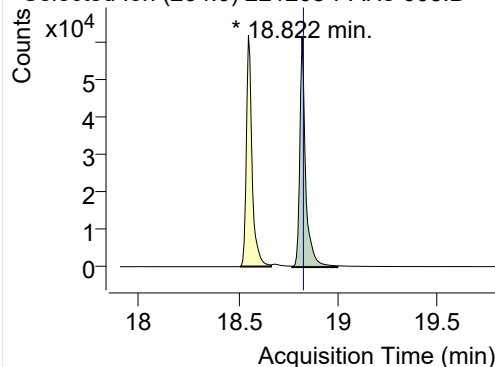
252.0, 253.0, 126.0



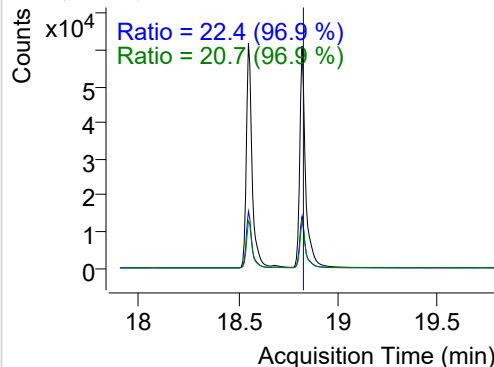
+ SIM (18.651-18.779 min, 19 scans) (**) 2212

**IS-D12-Perylene**

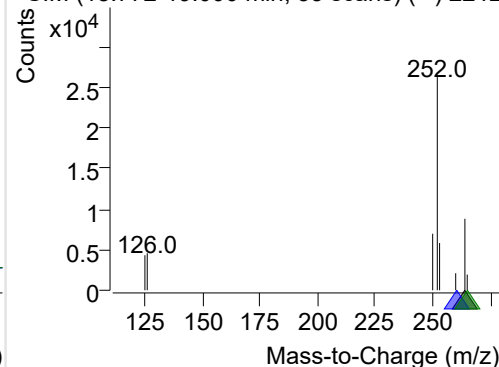
+ Selected Ion (264.0) 221208-PAHs-008.D



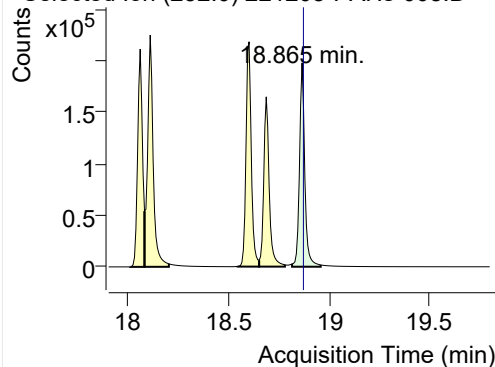
264.0, 260.0, 265.0



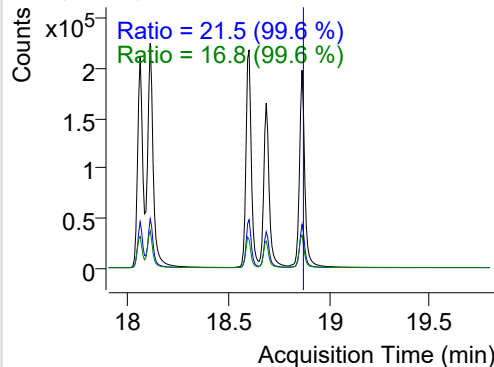
+ SIM (18.772-19.000 min, 33 scans) (**) 2212

**Perylene**

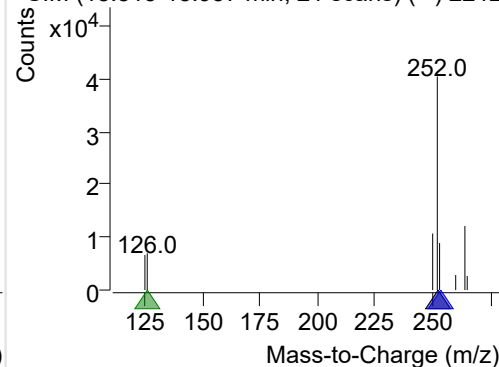
+ Selected Ion (252.0) 221208-PAHs-008.D



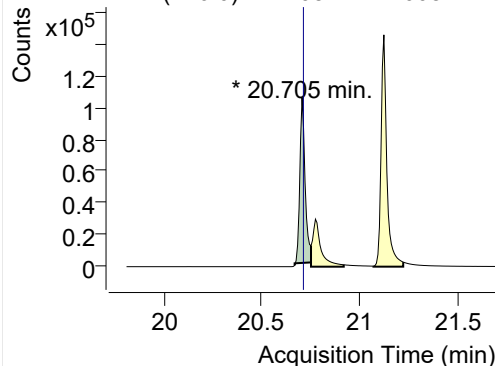
252.0, 253.0, 126.0



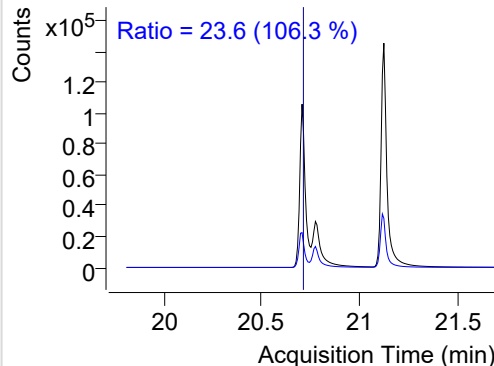
+ SIM (18.815-18.957 min, 21 scans) (**) 2212

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

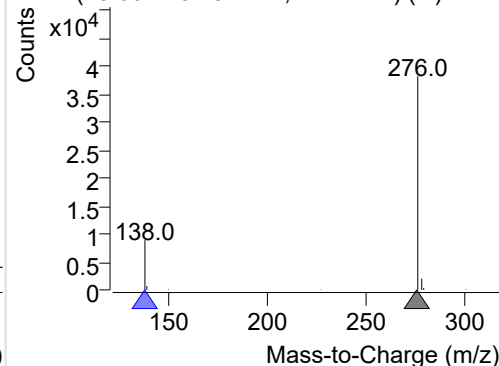
+ Selected Ion (276.0) 221208-PAHs-008.D



276.0, 138.0

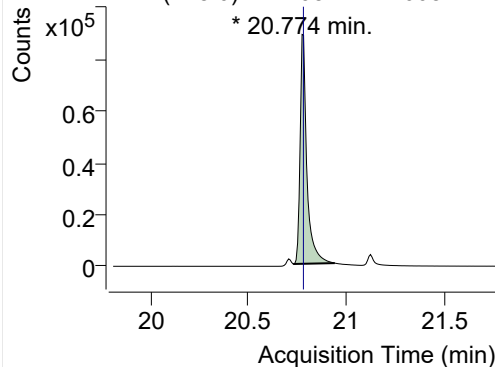


+ SIM (20.667-20.751 min, 12 scans) (**) 2212

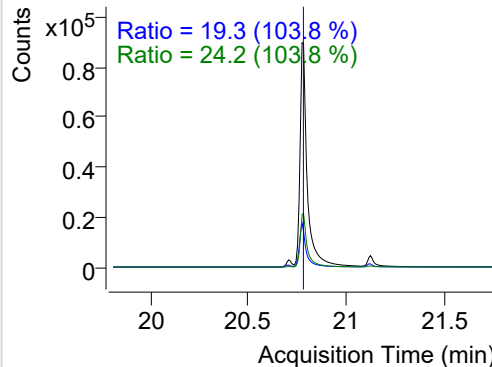


Dibenz(a,h)anthracene

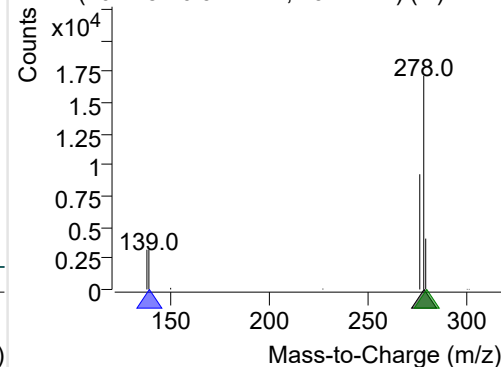
+ Selected Ion (278.0) 221208-PAHs-008.D



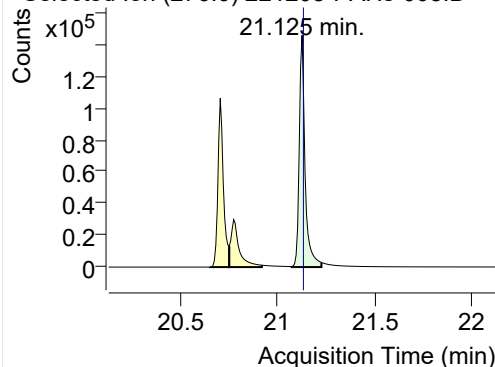
278.0, 139.0, 279.0



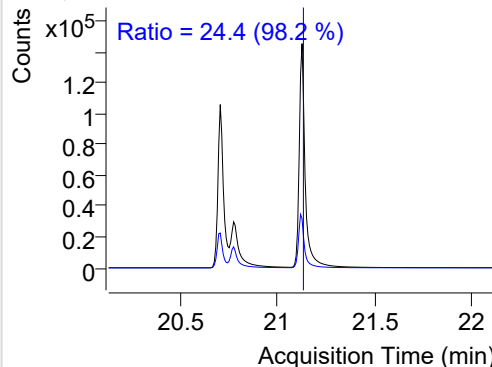
+ SIM (20.728-20.942 min, 29 scans) (**) 2212

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

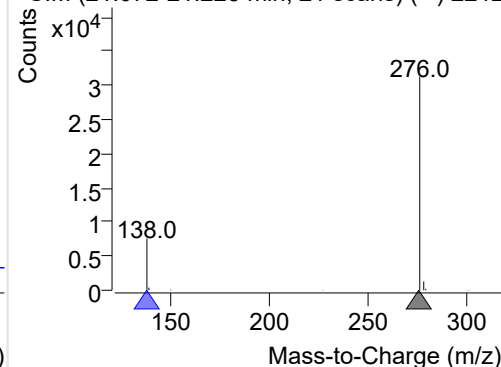
+ Selected Ion (276.0) 221208-PAHs-008.D



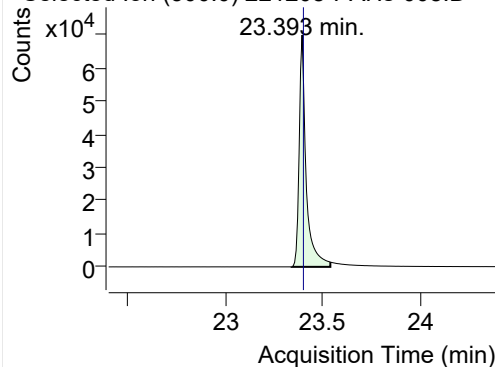
276.0, 138.0



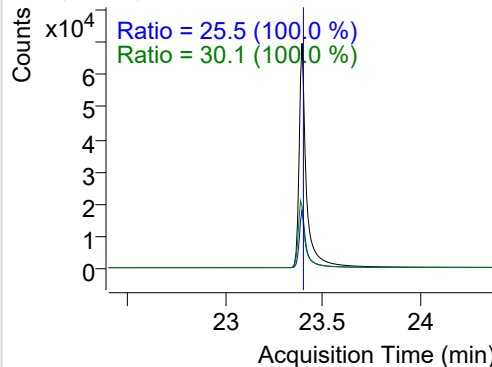
+ SIM (21.072-21.225 min, 21 scans) (**) 2212

**Coronene**

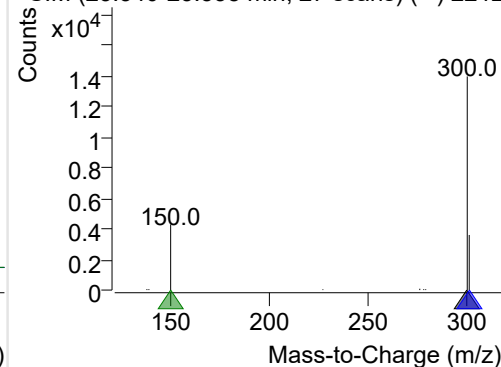
+ Selected Ion (300.0) 221208-PAHs-008.D



300.0, 301.0, 150.0



+ SIM (23.340-23.538 min, 27 scans) (**) 2212



Quantitative Analysis Sample Based Report

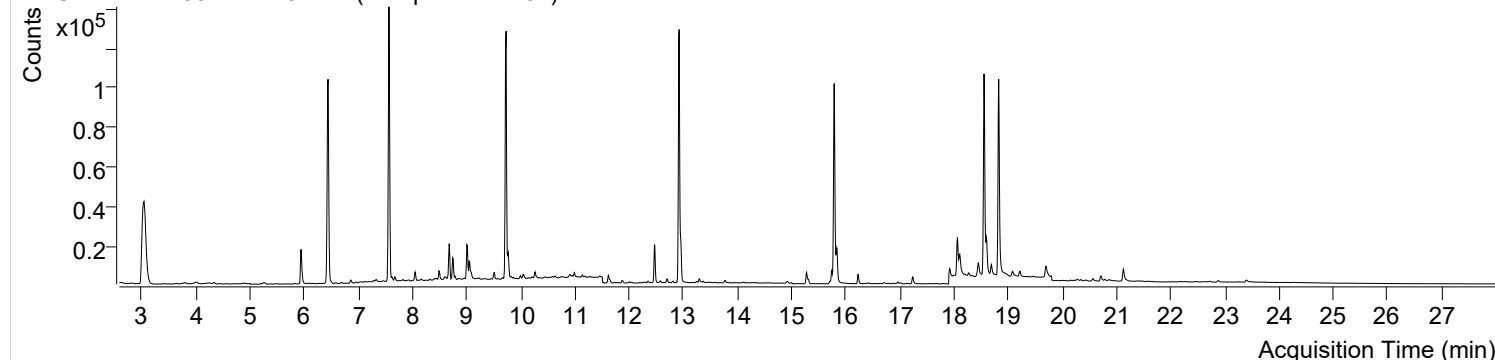


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-08 오후 10:47:19	Data File	221208-PAHs-011.D
Type	Sample	Name	Sample-PM-1101
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

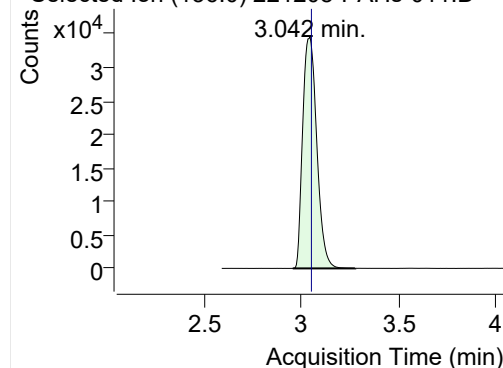
+ TIC SIM 221208-PAHs-011.D (Sample-PM-1101)



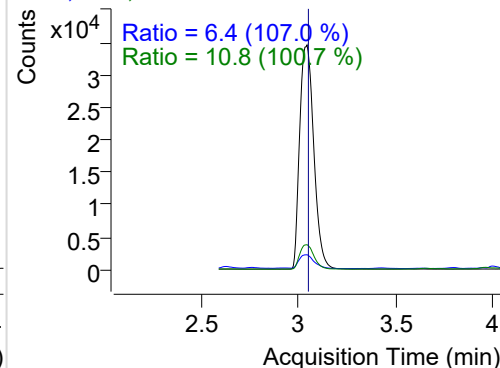
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	173897	34535.93	ND ng/ml	10.8
Naphthalene	3.063	128.0	6226	1255.83	ND ng/ml	11.6
Acenaphthylene	6.108	152.0	587	223.00	ND ng/ml	16.5
IS-D10-Acenaphthene	6.439	164.0	100934	50564.77	ND ng/ml	92.8
Acenaphthene	6.498	154.0	424	215.68	ND ng/ml	89.0
LSS-D10-Fluorene	7.564	176.0	107545	63685.92	ND ng/ml	90.2
Fluorene	7.617	166.0	1550	697.64	ND ng/ml	94.0
IS-D10-Phenanthrene	9.727	188.0	171564	102490.6	ND ng/ml	15.0
Phenanthrene	9.769	178.0	13602	8132.64	ND ng/ml	18.2
Anthracene	9.864	178.0	575	403.07	ND ng/ml	
Fluoranthene	12.472	202.0	23904	14534.59	ND ng/ml	18.7
LSS-D10-Pyrene	12.922	212.0	152641	94734.97	ND ng/ml	18.7
Pyrene	12.954	202.0	24315	14106.29	ND ng/ml	20.4
Benz(a)anthracene	15.740	228.0	8156	4540.00	ND ng/ml	26.9
IS-D12-Chrysene	15.784	240.0	135769	75623.84	ND ng/ml	18.6
Chrysene	15.833	228.0	23329	10703.24	ND ng/ml	27.8
Benzo(b)fluoranthene	18.060	252.0	20689	11484.99	ND ng/ml	21.0
Benzo(k)fluoranthene	18.103	252.0	18245	6562.74	ND ng/ml	20.2
SS-D12-Benzo(e)pyrene	18.551	264.0	126520	69512.55	ND ng/ml	24.7
Benzo(e)pyrene	18.601	252.0	18028	8801.73	ND ng/ml	22.4
Benzo(a)pyrene	18.687	252.0	6371	2674.67	ND ng/ml	21.0
IS-D12-Perylene	18.822	264.0	128610	68483.01	ND ng/ml	23.1
Perylene	18.865	252.0	1039	467.38	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.705	276.0	4786	2002.82	ND ng/ml	20.4
Dibenz(a,h)anthracene	20.782	278.0	1381	400.59	ND ng/ml	19.4
Benzo(g,h,i)perylene	21.125	276.0	12527	4802.41	ND ng/ml	23.4
Coronene	23.393	300.0	2649	668.37	ND ng/ml	28.8

IS-D8-Naphthalene

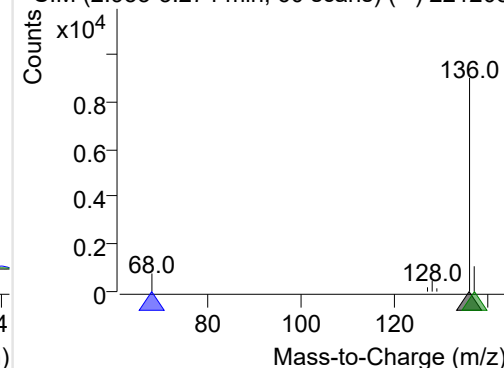
+ Selected Ion (136.0) 221208-PAHs-011.D



136.0, 68.0, 137.0

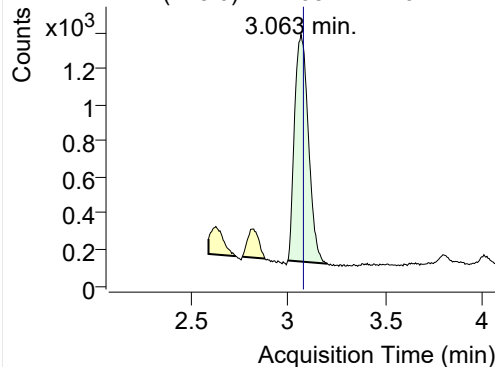


+ SIM (2.953-3.274 min, 60 scans) (**) 221208

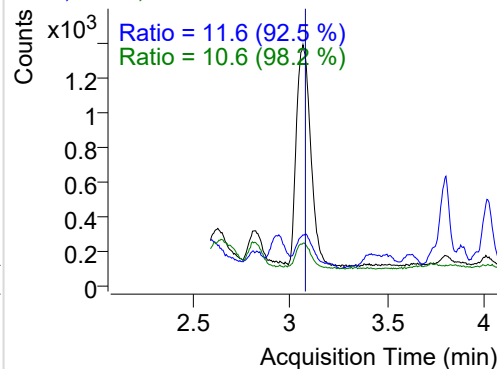


Naphthalene

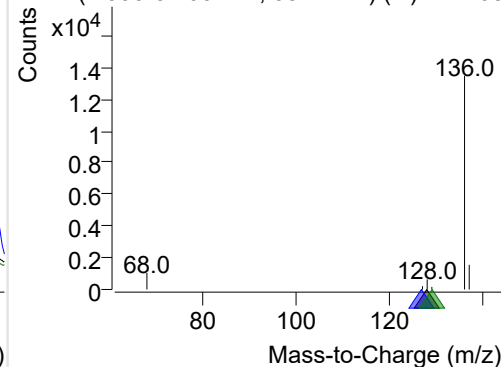
+ Selected Ion (128.0) 221208-PAHs-011.D



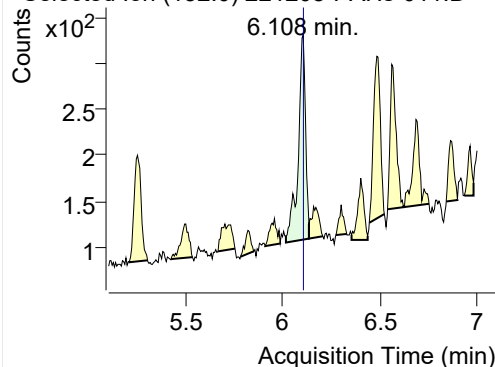
128.0, 127.0, 129.0



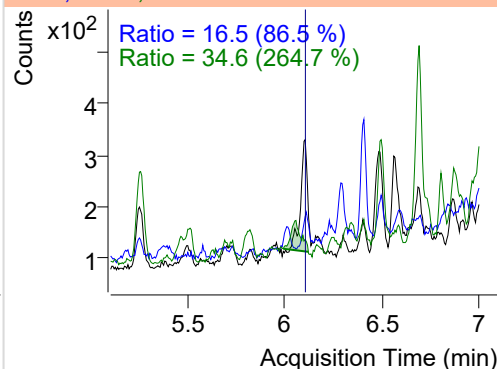
+ SIM (2.995-3.200 min, 38 scans) (**) 221208

**Acenaphthylene**

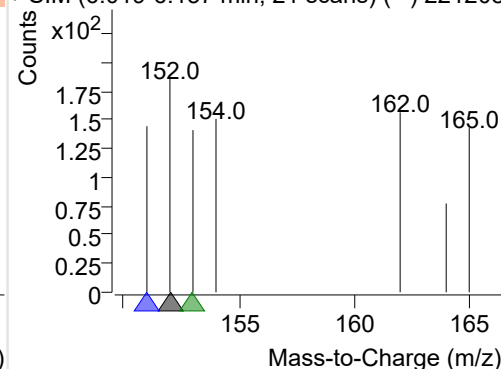
+ Selected Ion (152.0) 221208-PAHs-011.D



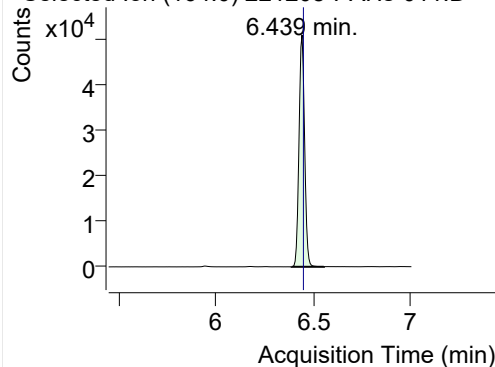
152.0, 151.0, 153.0



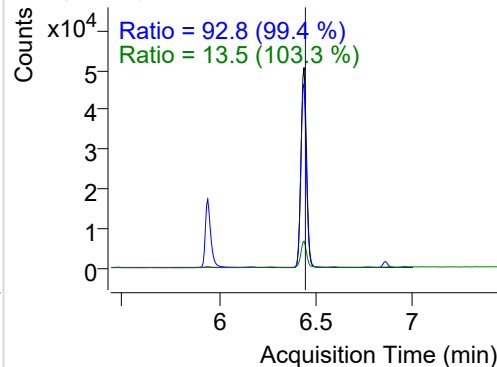
+ SIM (6.019-6.137 min, 21 scans) (**) 221208

**IS-D10-Acenaphthene**

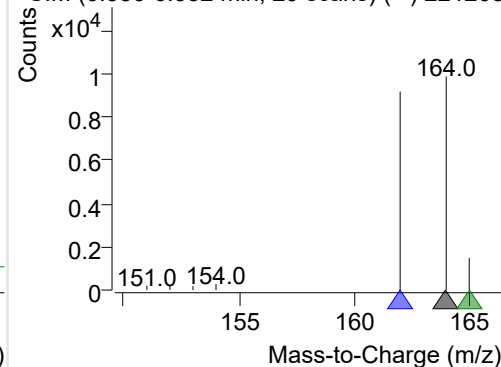
+ Selected Ion (164.0) 221208-PAHs-011.D



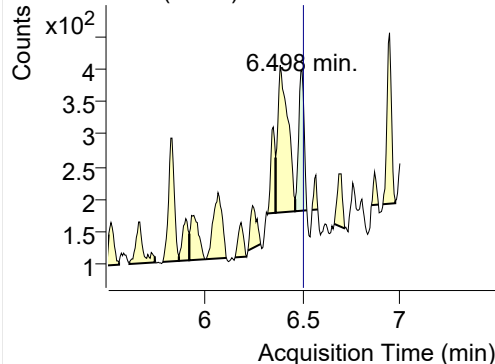
164.0, 162.0, 165.0



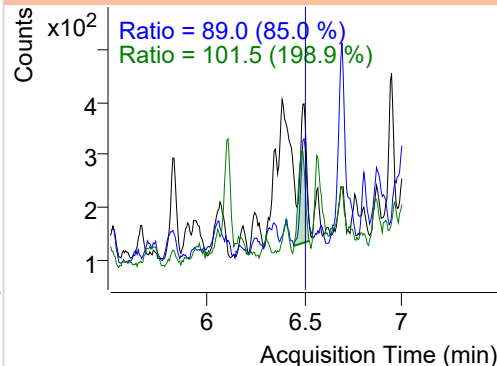
+ SIM (6.386-6.552 min, 29 scans) (**) 221208

**Acenaphthene**

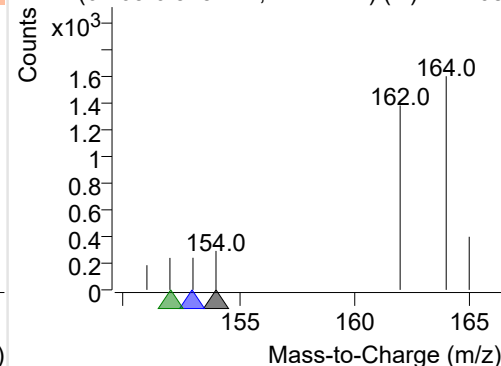
+ Selected Ion (154.0) 221208-PAHs-011.D



154.0, 153.0, 152.0

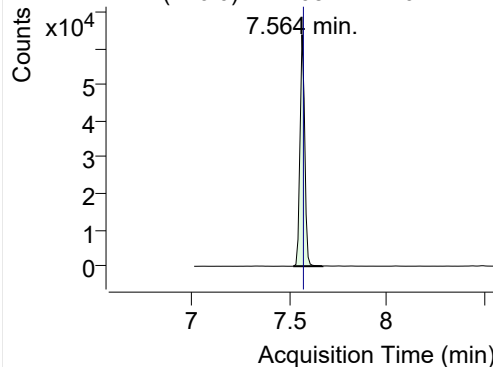


+ SIM (6.463-6.523 min, 11 scans) (**) 221208

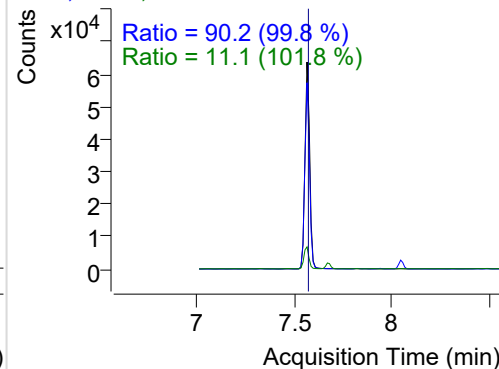


LSS-D10-Fluorene

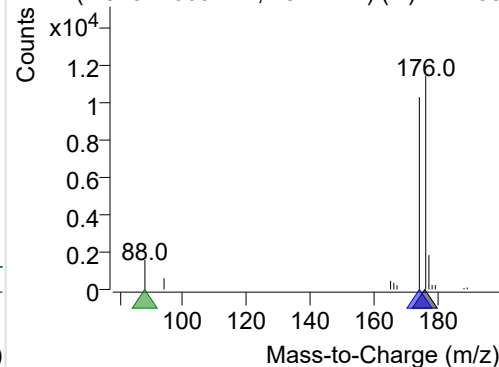
+ Selected Ion (176.0) 221208-PAHs-011.D



176.0, 174.0, 88.0

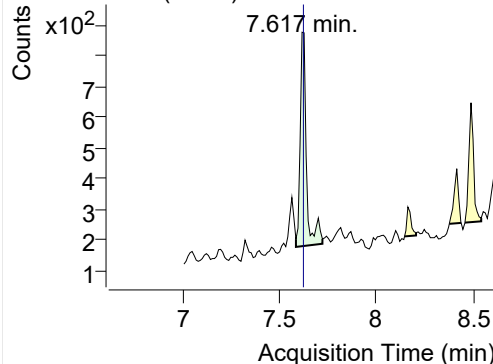


+ SIM (7.518-7.669 min, 15 scans) (**) 221208

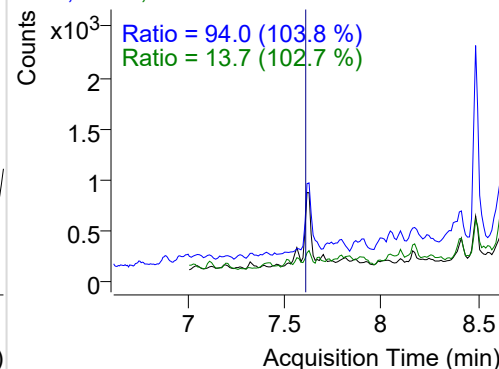


Fluorene

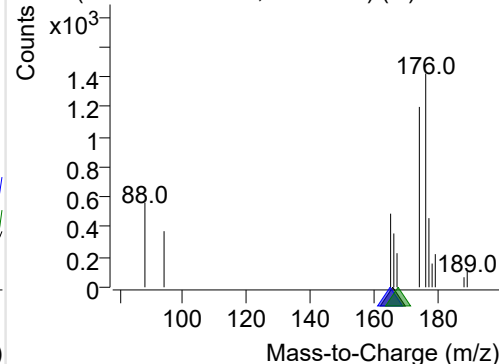
+ Selected Ion (166.0) 221208-PAHs-011.D



166.0, 165.0, 167.0

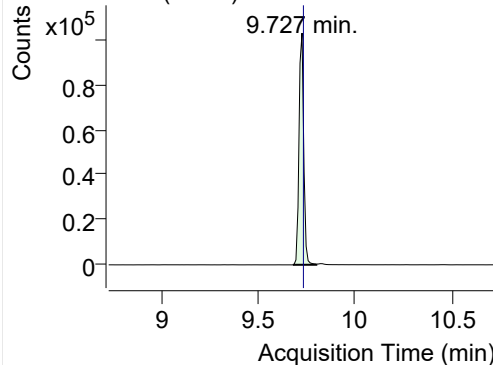


+ SIM (7.585-7.722 min, 14 scans) (**) 221208

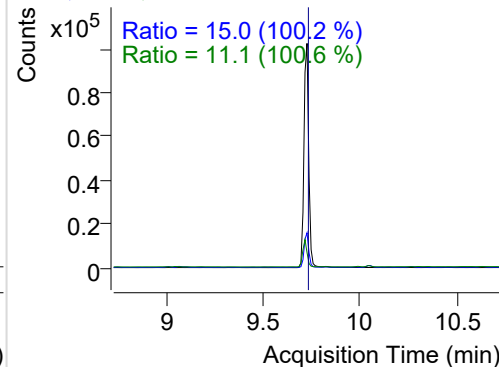


IS-D10-Phenanthrene

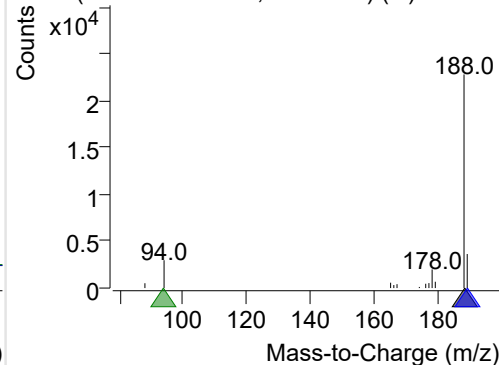
+ Selected Ion (188.0) 221208-PAHs-011.D



188.0, 189.0, 94.0

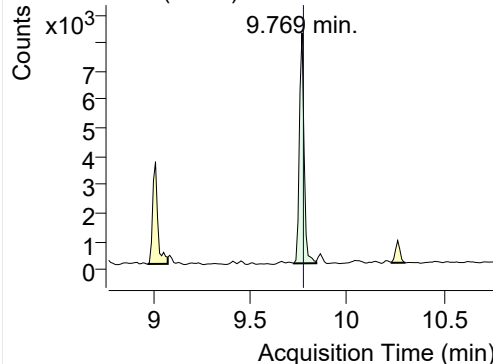


+ SIM (9.680-9.801 min, 12 scans) (**) 221208

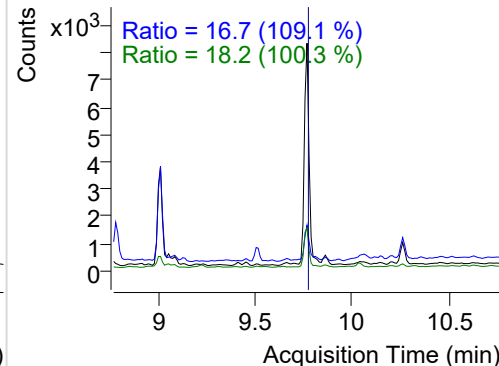


Phenanthrene

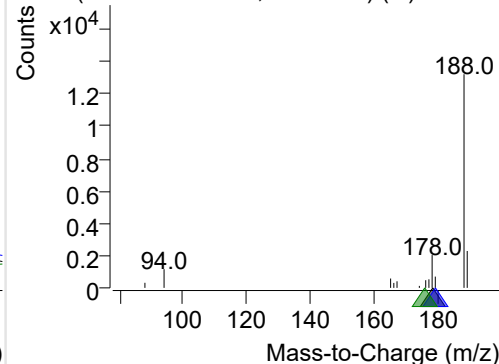
+ Selected Ion (178.0) 221208-PAHs-011.D



178.0, 179.0, 176.0

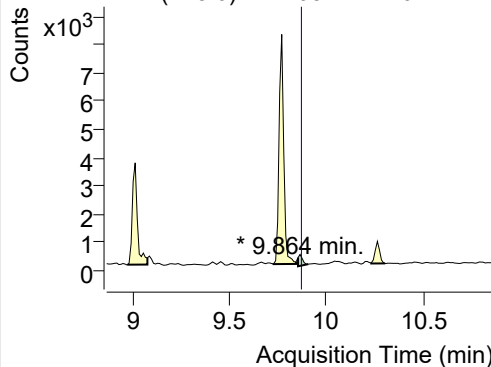


+ SIM (9.727-9.843 min, 12 scans) (**) 221208

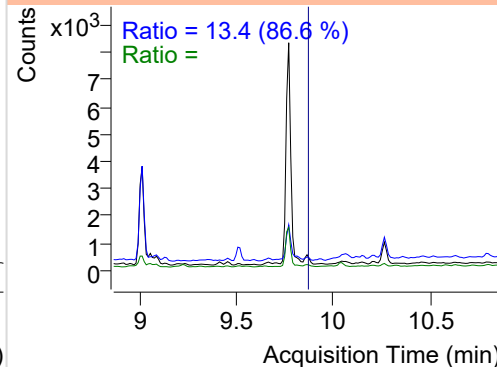


Anthracene

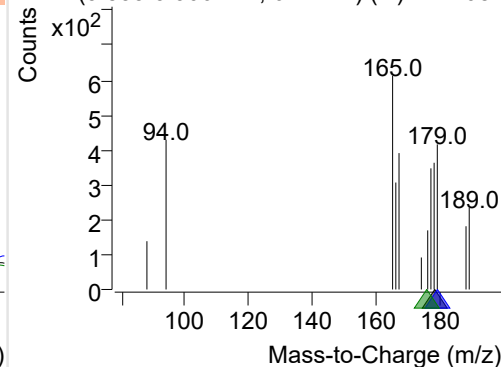
+ Selected Ion (178.0) 221208-PAHs-011.D



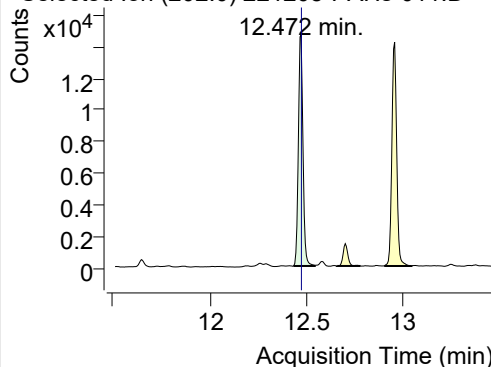
178.0, 179.0, 176.0



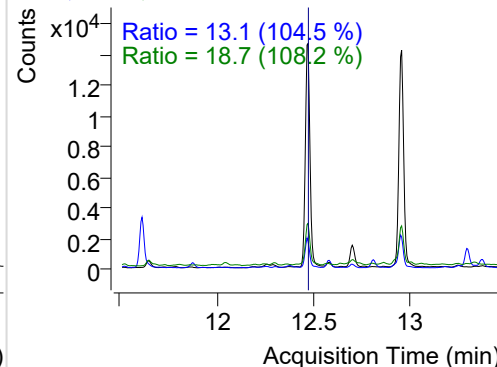
+ SIM (9.853-9.906 min, 6 scans) (**) 221208-I

**Fluoranthene**

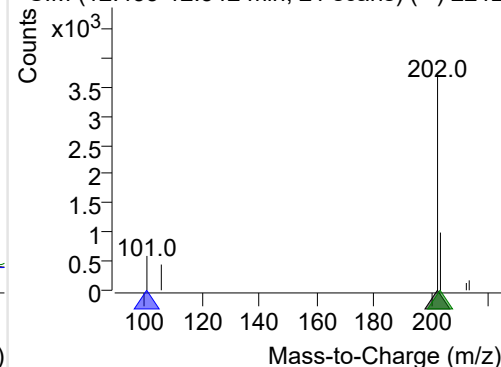
+ Selected Ion (202.0) 221208-PAHs-011.D



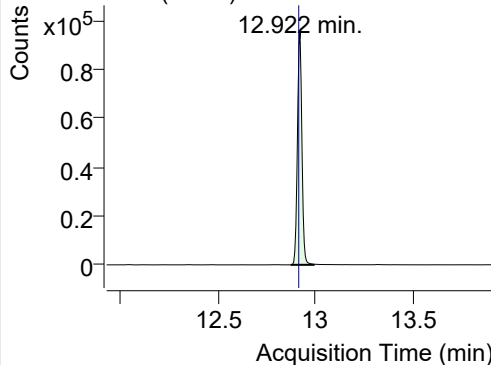
202.0, 101.0, 203.0



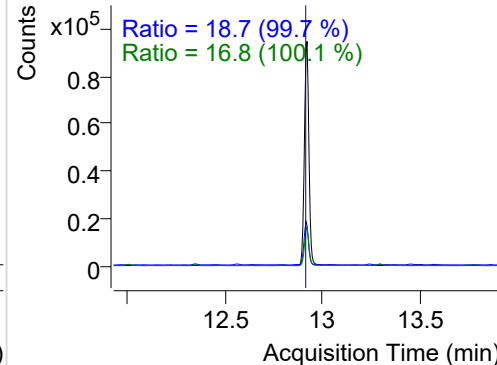
+ SIM (12.433-12.542 min, 21 scans) (**) 2212

**LSS-D10-Pyrene**

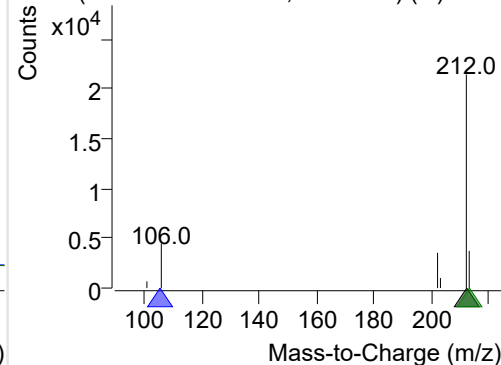
+ Selected Ion (212.0) 221208-PAHs-011.D



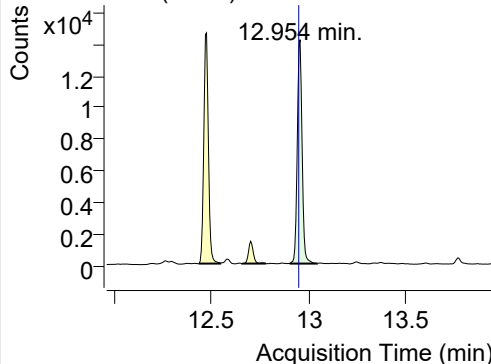
212.0, 106.0, 213.0



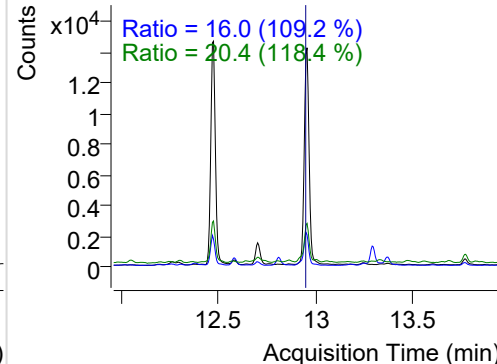
+ SIM (12.874-12.992 min, 22 scans) (**) 2212

**Pyrene**

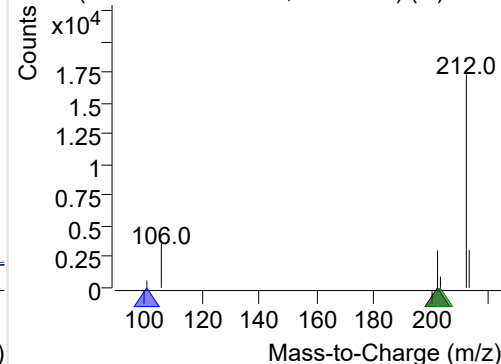
+ Selected Ion (202.0) 221208-PAHs-011.D



202.0, 101.0, 203.0

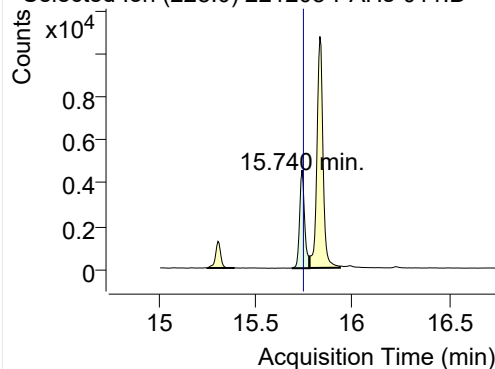


+ SIM (12.906-13.041 min, 26 scans) (**) 2212

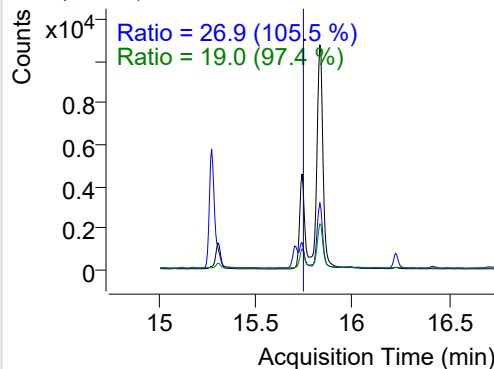


Benz(a)anthracene

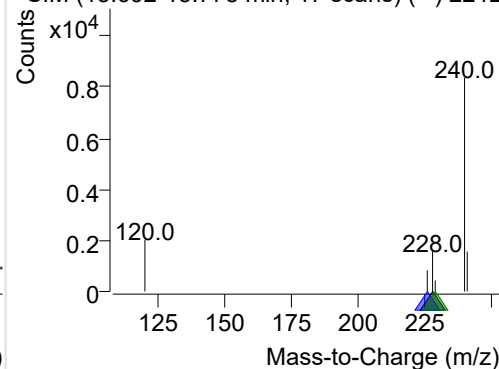
+ Selected Ion (228.0) 221208-PAHs-011.D



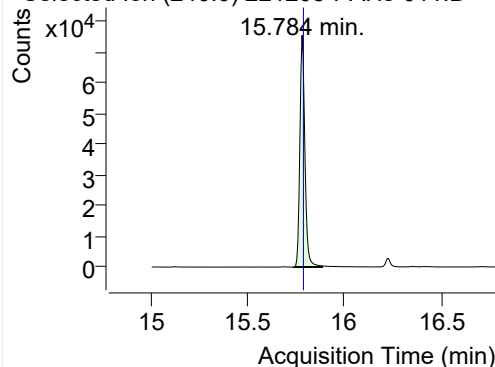
228.0, 226.0, 229.0



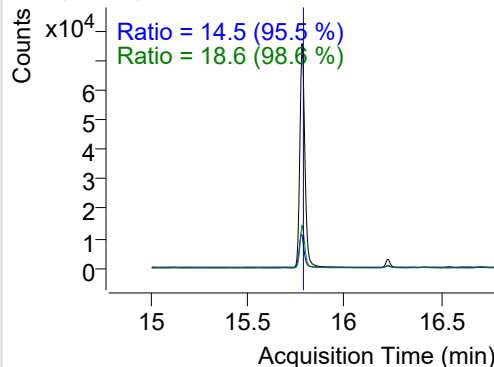
+ SIM (15.692-15.778 min, 17 scans) (**) 2212

**IS-D12-Chrysene**

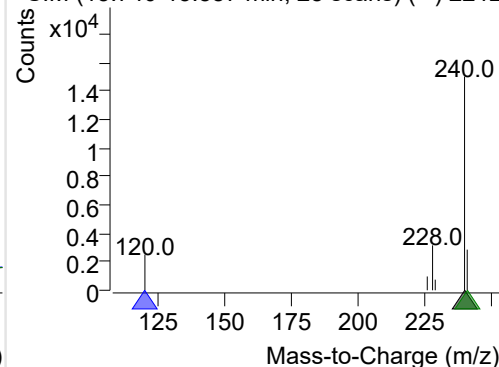
+ Selected Ion (240.0) 221208-PAHs-011.D



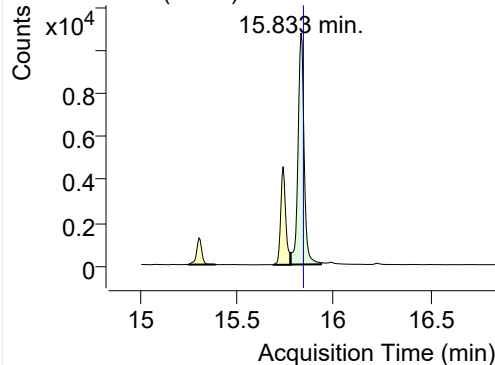
240.0, 120.0, 241.0



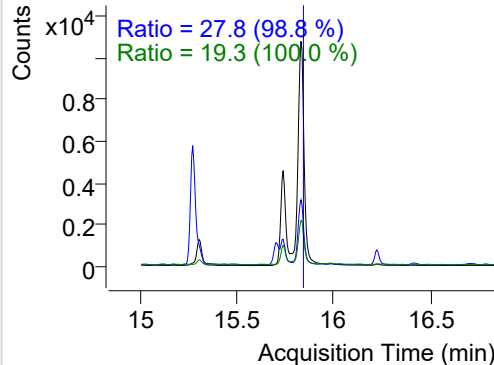
+ SIM (15.740-15.887 min, 28 scans) (**) 2212

**Chrysene**

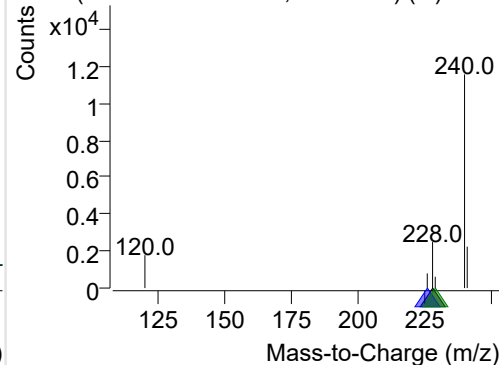
+ Selected Ion (228.0) 221208-PAHs-011.D



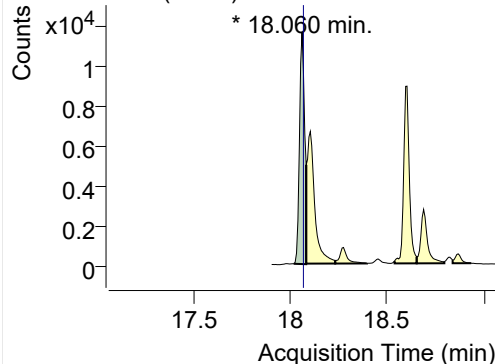
228.0, 226.0, 229.0



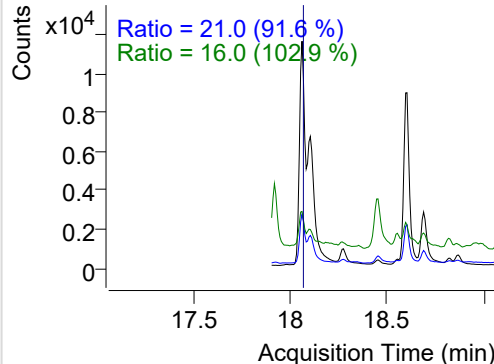
+ SIM (15.778-15.936 min, 30 scans) (**) 2212

**Benzo(b)fluoranthene**

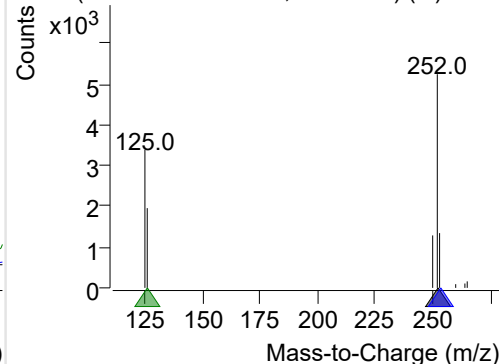
+ Selected Ion (252.0) 221208-PAHs-011.D



252.0, 253.0, 126.0

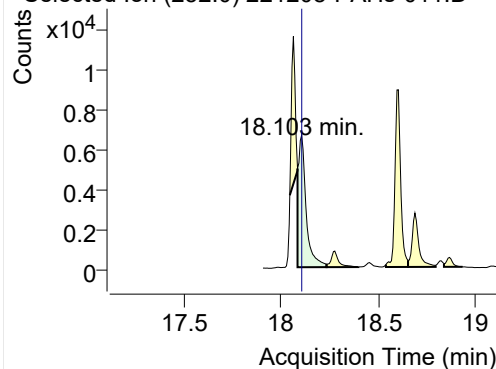


+ SIM (18.018-18.082 min, 10 scans) (**) 2212

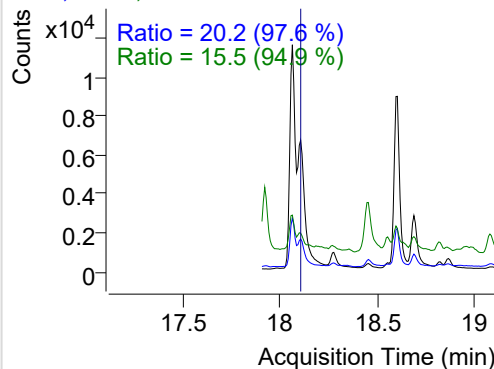


Benzo(k)fluoranthene

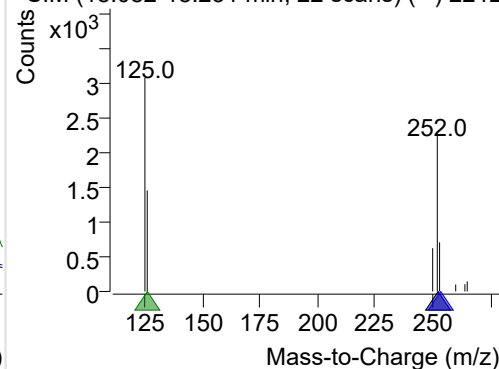
+ Selected Ion (252.0) 221208-PAHs-011.D



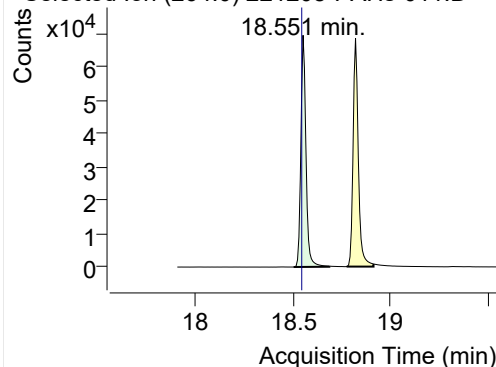
252.0, 253.0, 126.0



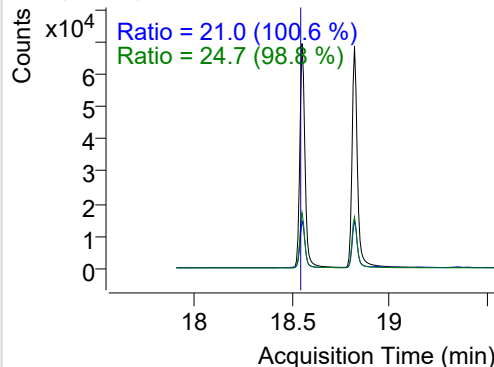
+ SIM (18.082-18.231 min, 22 scans) (**) 2212

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

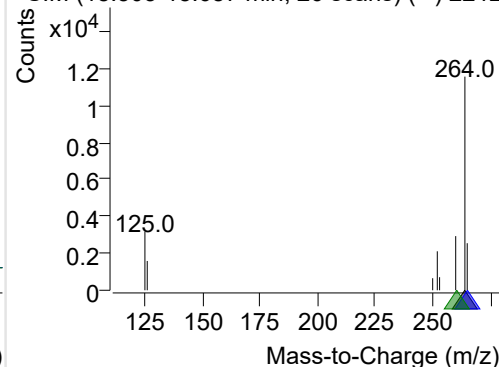
+ Selected Ion (264.0) 221208-PAHs-011.D



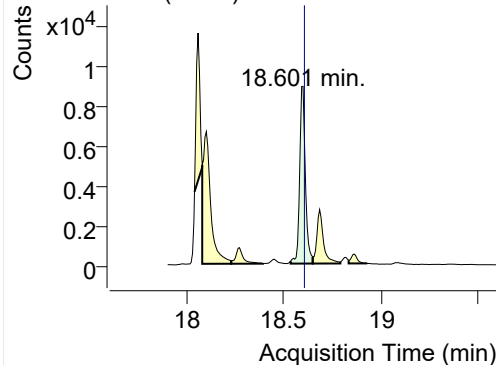
264.0, 265.0, 260.0



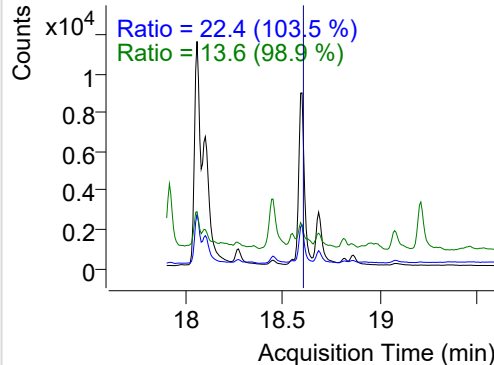
+ SIM (18.503-18.687 min, 26 scans) (**) 2212

**Benzo(e)pyrene**

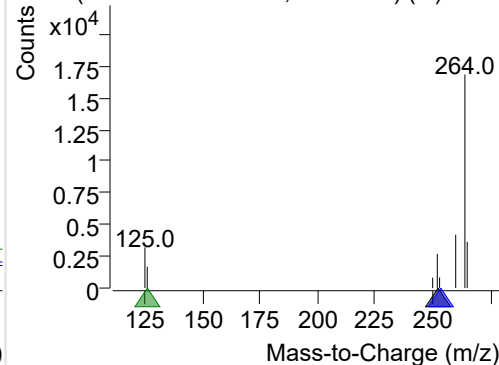
+ Selected Ion (252.0) 221208-PAHs-011.D



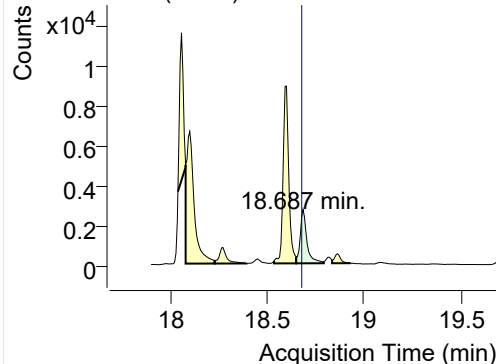
252.0, 253.0, 126.0



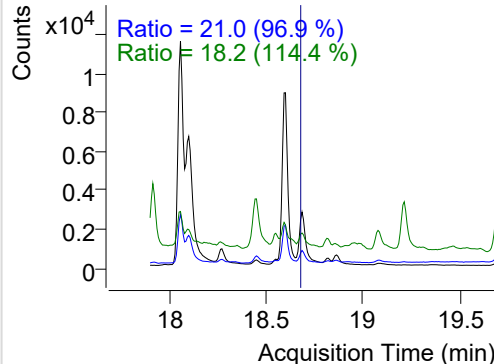
+ SIM (18.537-18.651 min, 17 scans) (**) 2212

**Benzo(a)pyrene**

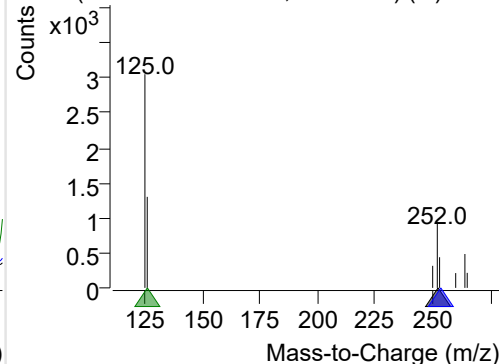
+ Selected Ion (252.0) 221208-PAHs-011.D



252.0, 253.0, 126.0

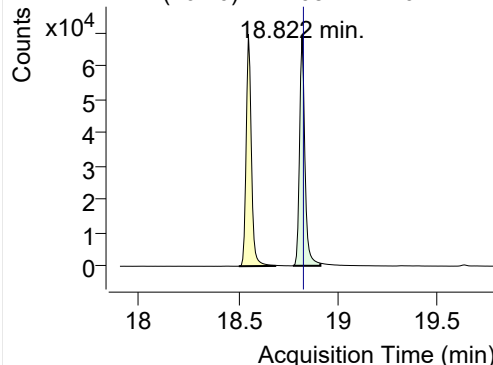


+ SIM (18.651-18.793 min, 21 scans) (**) 2212

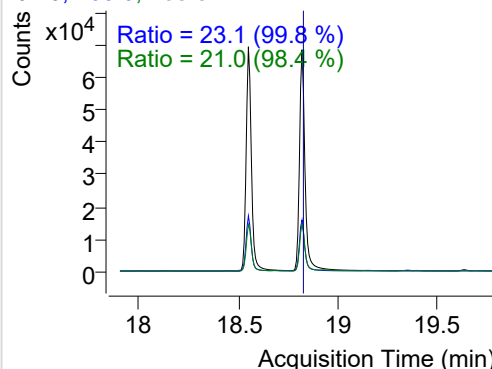


IS-D12-Perylene

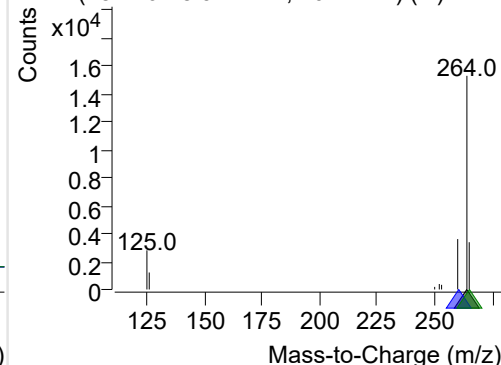
+ Selected Ion (264.0) 221208-PAHs-011.D



264.0, 260.0, 265.0

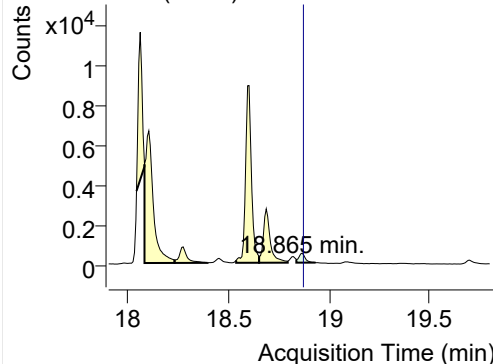


+ SIM (18.776-18.914 min, 20 scans) (**) 2212

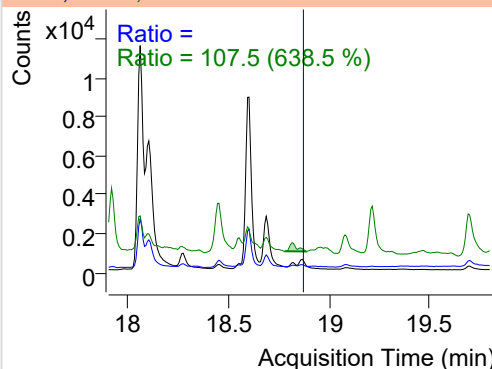


Perylene

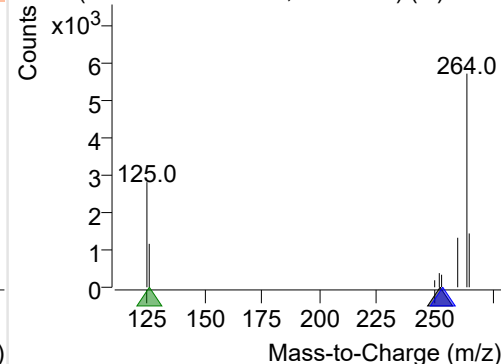
+ Selected Ion (252.0) 221208-PAHs-011.D



252.0, 253.0, 126.0

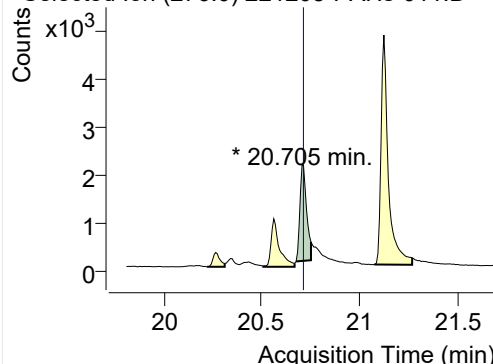


+ SIM (18.836-18.932 min, 14 scans) (**) 2212

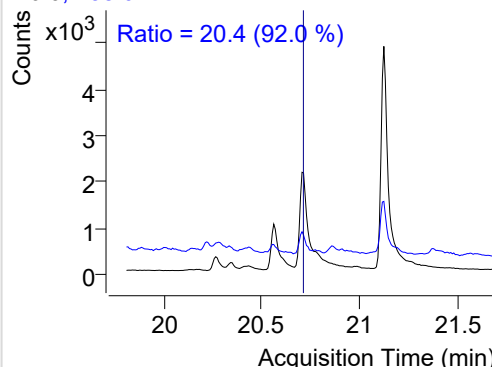


Indeno(1,2,3-c,d)pyrene

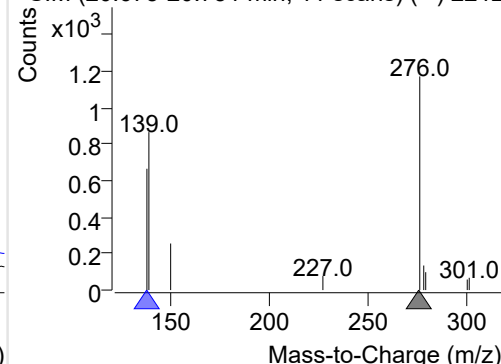
+ Selected Ion (276.0) 221208-PAHs-011.D



276.0, 138.0

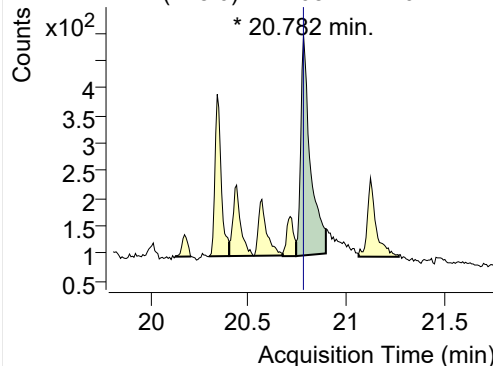


+ SIM (20.675-20.751 min, 11 scans) (**) 2212

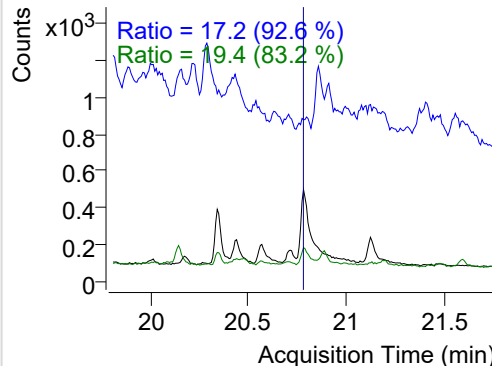


Dibenz(a,h)anthracene

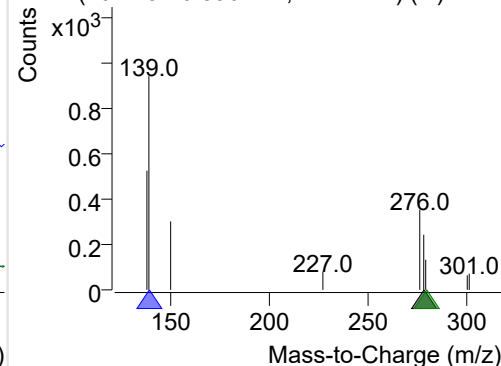
+ Selected Ion (278.0) 221208-PAHs-011.D



278.0, 139.0, 279.0

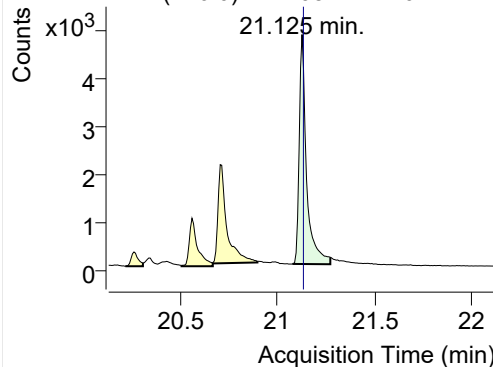


+ SIM (20.743-20.896 min, 21 scans) (**) 2212

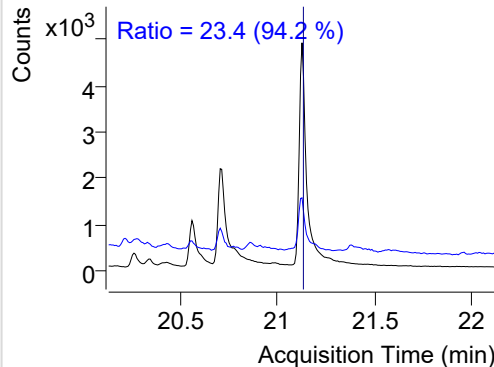


Benzo(g,h,i)perylene

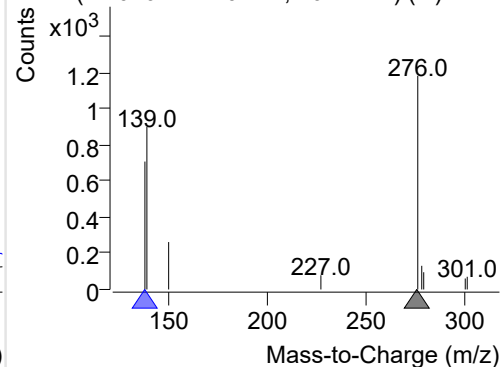
+ Selected Ion (276.0) 221208-PAHs-011.D



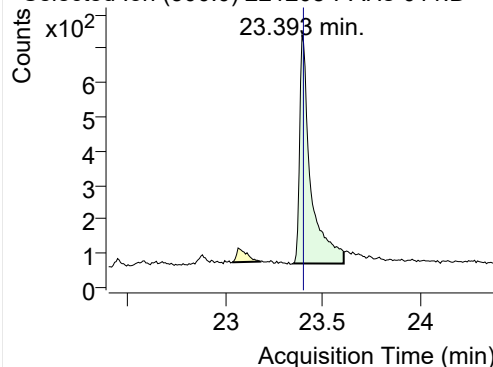
276.0, 138.0



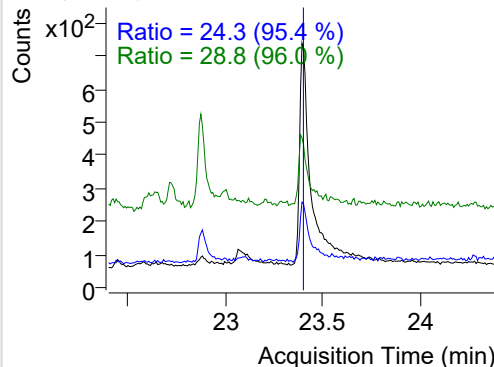
+ SIM (21.076-21.270 min, 26 scans) (**) 2212

**Coronene**

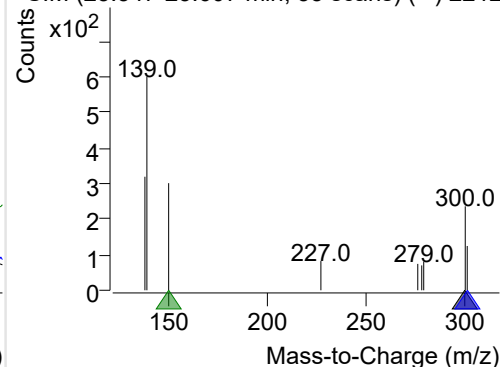
+ Selected Ion (300.0) 221208-PAHs-011.D



300.0, 301.0, 150.0



+ SIM (23.347-23.607 min, 35 scans) (**) 2212



Quantitative Analysis Sample Based Report

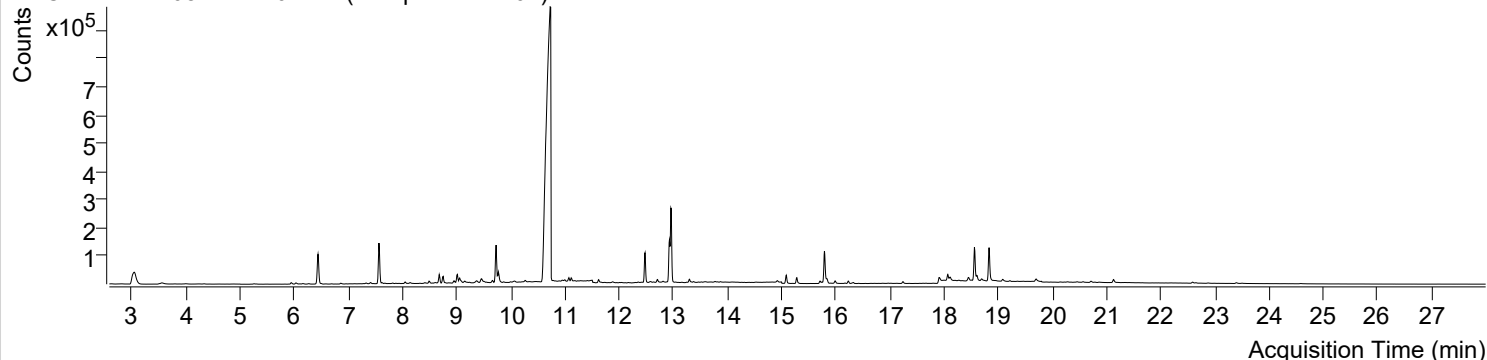


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-08 오후 11:18:31	Data File	221208-PAHs-012.D
Type	Sample	Name	Sample-PM-1107
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

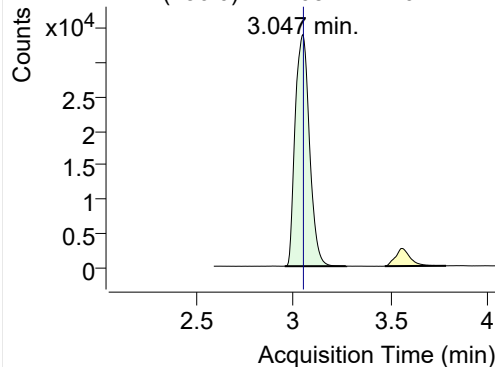
+ TIC SIM 221208-PAHs-012.D (Sample-PM-1107)



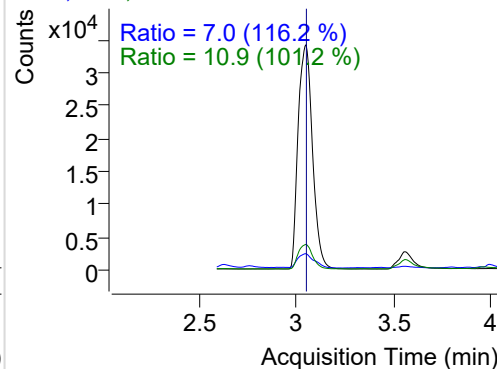
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.047	136.0	175163	34141.38	ND ng/ml	10.9
Naphthalene	3.074	128.0	107110	2108.99	ND ng/ml	13.0
Acenaphthylene	6.108	152.0	1296	559.43	ND ng/ml	18.7
IS-D10-Acenaphthene	6.439	164.0	103466	51480.76	ND ng/ml	94.3
Acenaphthene	6.493	154.0	918	393.67	ND ng/ml	95.3
LSS-D10-Fluorene	7.564	176.0	115304	65351.57	ND ng/ml	90.1
Fluorene	7.627	166.0	2523	1288.90	ND ng/ml	98.1
IS-D10-Phenanthrene	9.727	188.0	174495	107586.9	ND ng/ml	14.9
Phenanthrene	9.769	178.0	39071	23186.94	ND ng/ml	17.6
Anthracene	9.864	178.0	2042	1209.22	ND ng/ml	20.7
Fluoranthene	12.477	202.0	129291	80447.31	ND ng/ml	19.0
LSS-D10-Pyrene	12.927	212.0	184215	107673.1	ND ng/ml	19.8
Pyrene	12.960	202.0	321128	194695.6	ND ng/ml	17.9
Benz(a)anthracene	15.746	228.0	6898	3353.00	ND ng/ml	26.3
IS-D12-Chrysene	15.789	240.0	155885	86194.06	ND ng/ml	18.0
Chrysene	15.838	228.0	21323	10023.42	ND ng/ml	26.1
Benzo(b)fluoranthene	18.068	252.0	22040	12707.61	ND ng/ml	23.0
Benzo(k)fluoranthene	18.110	252.0	17061	7063.75	ND ng/ml	18.4
SS-D12-Benzo(e)pyrene	18.559	264.0	141233	79731.28	ND ng/ml	24.4
Benzo(e)pyrene	18.609	252.0	17017	9342.77	ND ng/ml	22.7
Benzo(a)pyrene	18.694	252.0	5263	2895.06	ND ng/ml	21.8
IS-D12-Perylene	18.829	264.0	146657	80857.90	ND ng/ml	22.9
Perylene	18.872	252.0	906	579.99	ND ng/ml	79.0
Indeno(1,2,3-c,d)pytene	20.713	276.0	7809	3490.82	ND ng/ml	20.4
Dibenz(a,h)anthracene	20.782	278.0	2004	605.20	ND ng/ml	18.8
Benzo(g,h,i)perylene	21.125	276.0	19482	8359.00	ND ng/ml	23.8
Coronene	23.393	300.0	4703	1614.54	ND ng/ml	28.5

IS-D8-Naphthalene

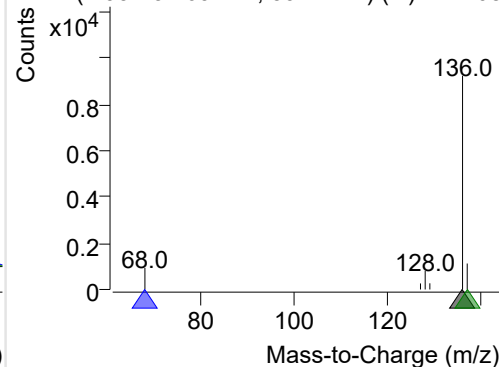
+ Selected Ion (136.0) 221208-PAHs-012.D



136.0, 68.0, 137.0

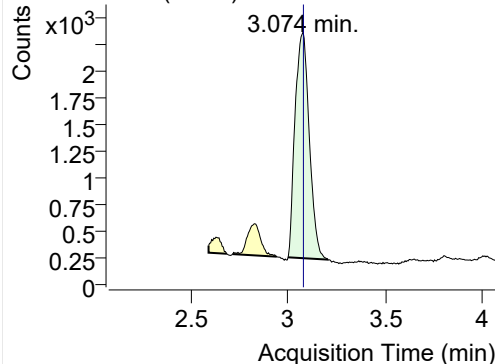


+ SIM (2.952-3.269 min, 59 scans) (**) 221208

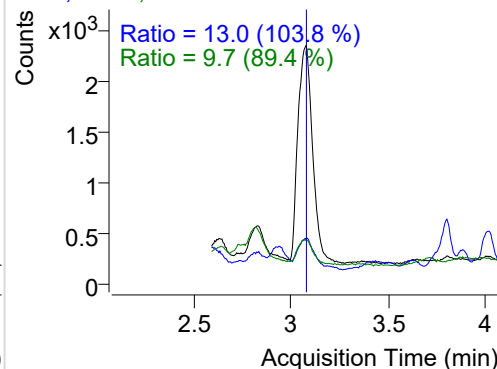


Naphthalene

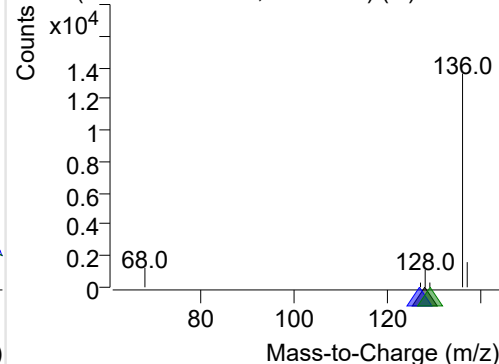
+ Selected Ion (128.0) 221208-PAHs-012.D



128.0, 127.0, 129.0

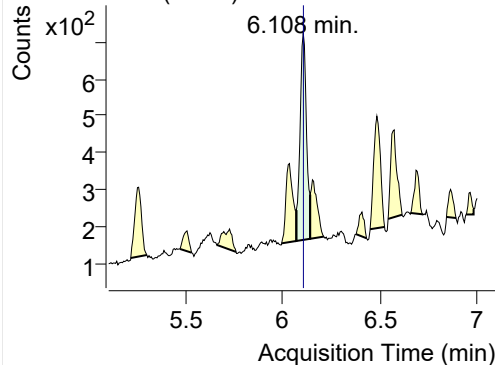


+ SIM (2.996-3.202 min, 38 scans) (**) 221208

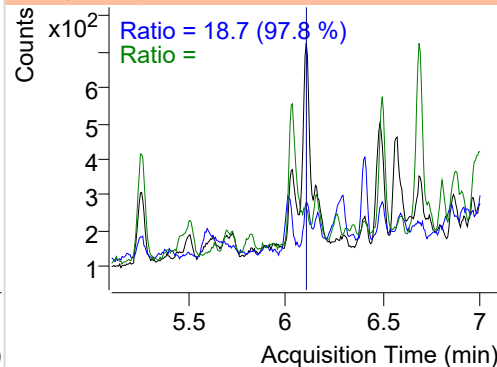


Acenaphthylene

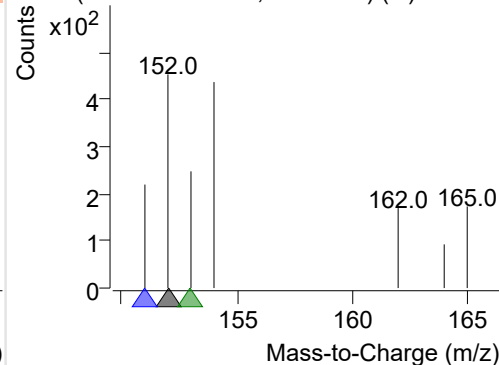
+ Selected Ion (152.0) 221208-PAHs-012.D



152.0, 151.0, 153.0

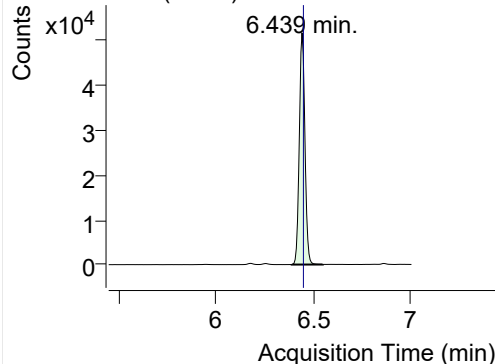


+ SIM (6.072-6.143 min, 13 scans) (**) 221208

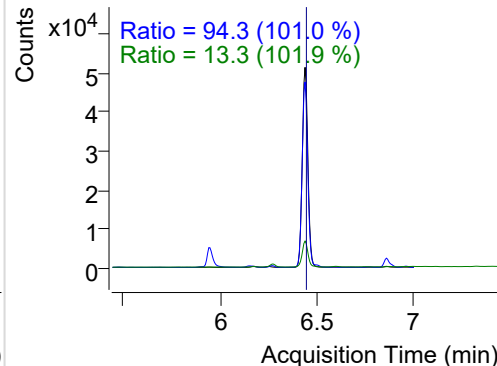


IS-D10-Acenaphthene

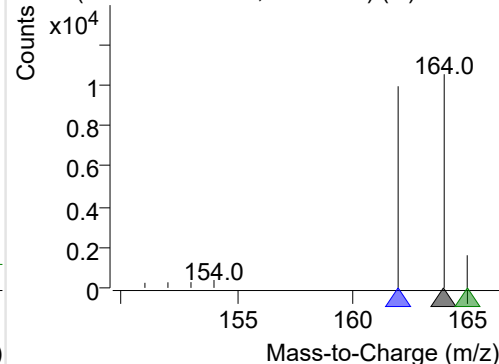
+ Selected Ion (164.0) 221208-PAHs-012.D



164.0, 162.0, 165.0

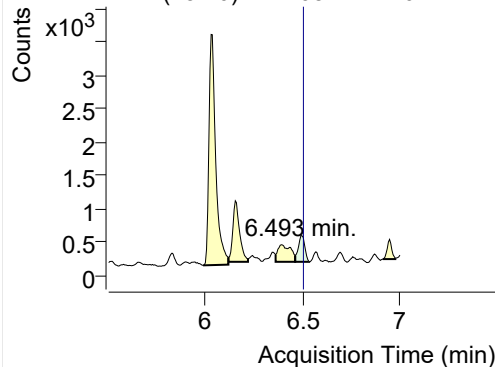


+ SIM (6.386-6.546 min, 28 scans) (**) 221208

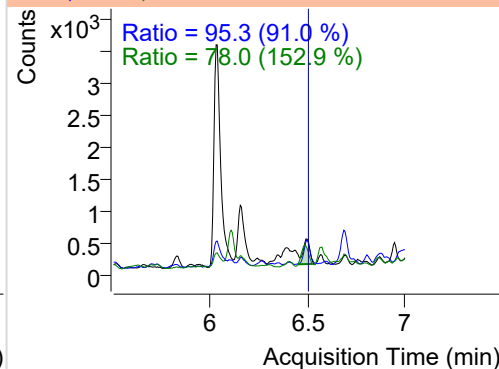


Acenaphthene

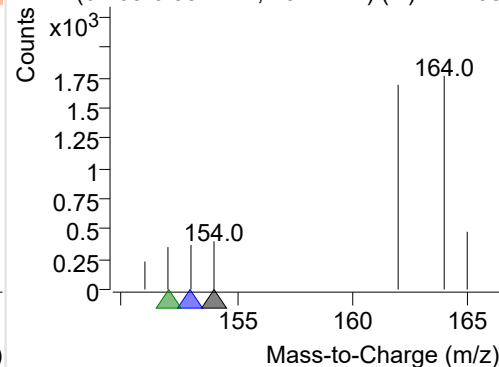
+ Selected Ion (154.0) 221208-PAHs-012.D



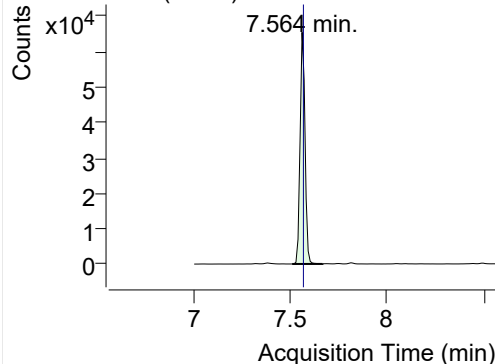
154.0, 153.0, 152.0



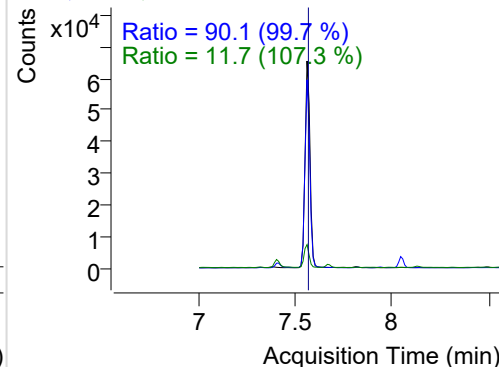
+ SIM (6.463-6.534 min, 13 scans) (**) 221208

**LSS-D10-Fluorene**

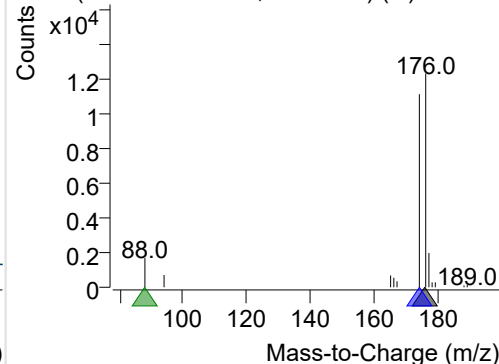
+ Selected Ion (176.0) 221208-PAHs-012.D



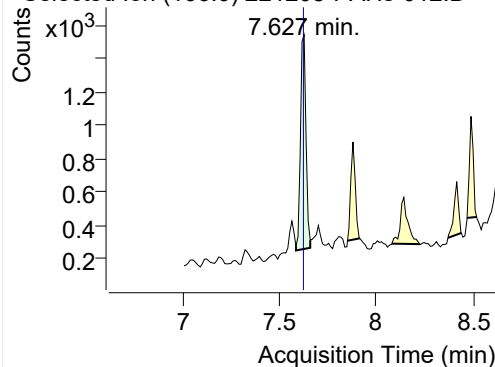
176.0, 174.0, 88.0



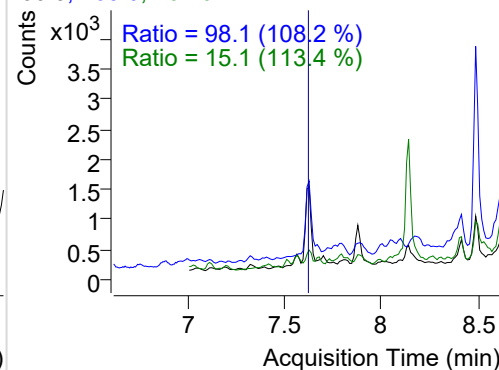
+ SIM (7.513-7.669 min, 15 scans) (**) 221208

**Fluorene**

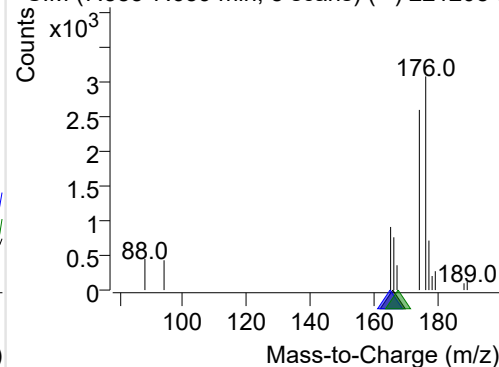
+ Selected Ion (166.0) 221208-PAHs-012.D



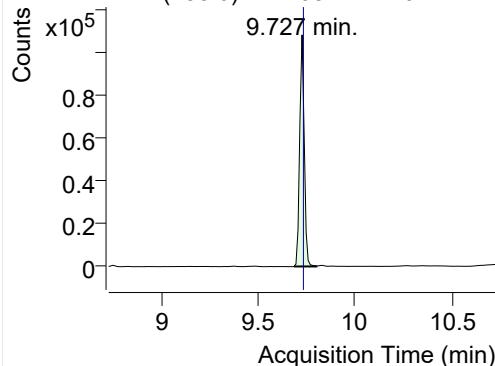
166.0, 165.0, 167.0



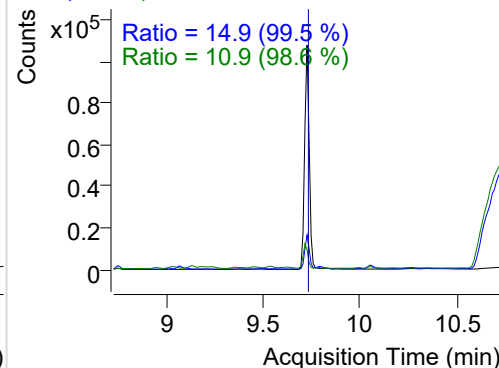
+ SIM (7.585-7.659 min, 8 scans) (**) 221208-I

**IS-D10-Phenanthrene**

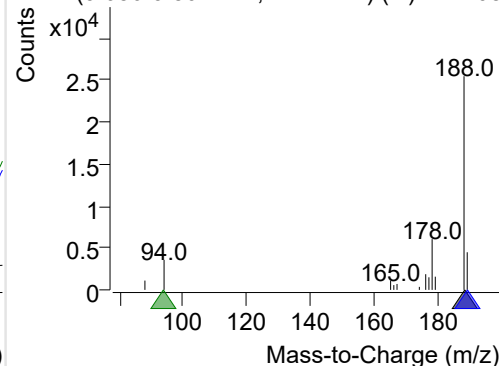
+ Selected Ion (188.0) 221208-PAHs-012.D



188.0, 189.0, 94.0

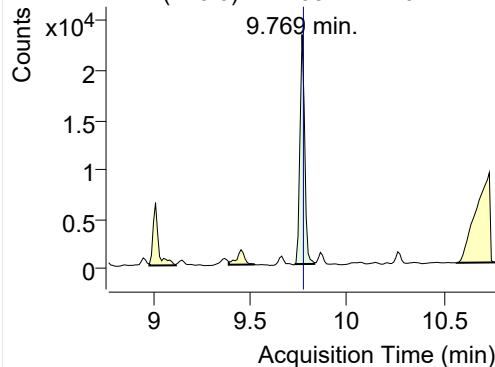


+ SIM (9.686-9.801 min, 11 scans) (**) 221208

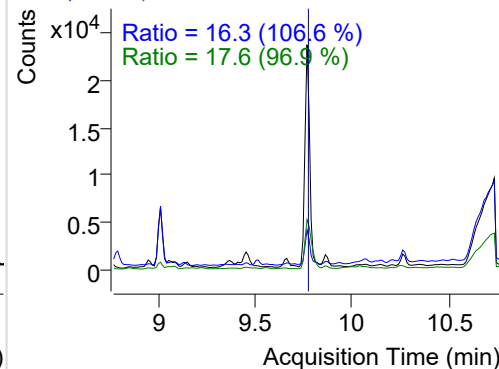


Phenanthrene

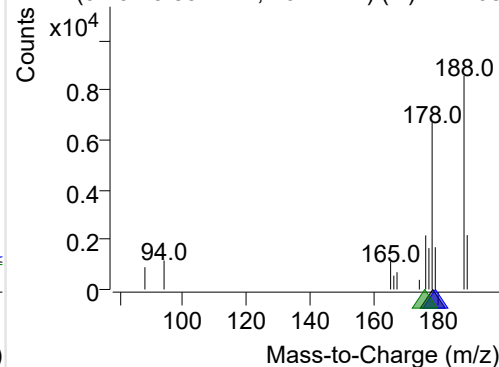
+ Selected Ion (178.0) 221208-PAHs-012.D



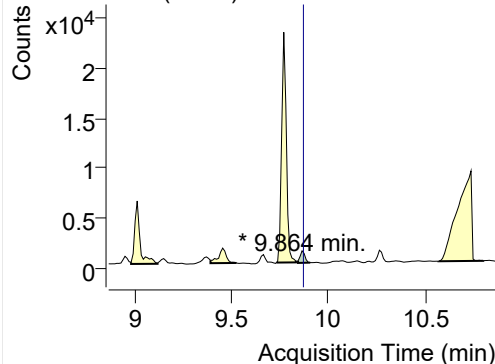
178.0, 179.0, 176.0



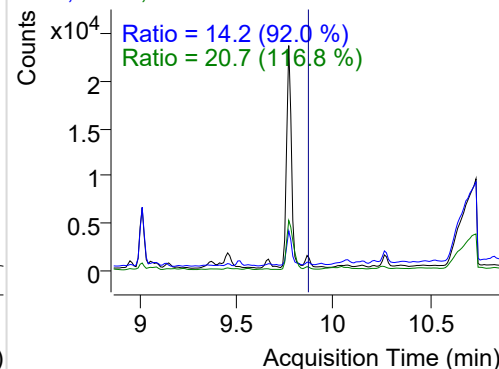
+ SIM (9.732-9.832 min, 10 scans) (**) 221208

**Anthracene**

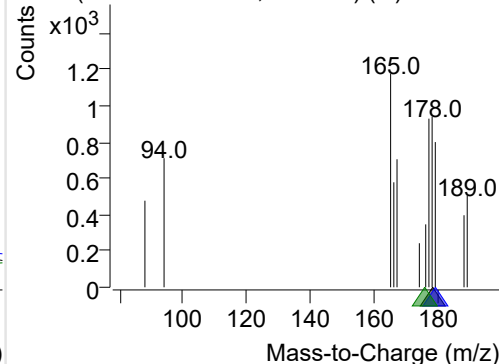
+ Selected Ion (178.0) 221208-PAHs-012.D



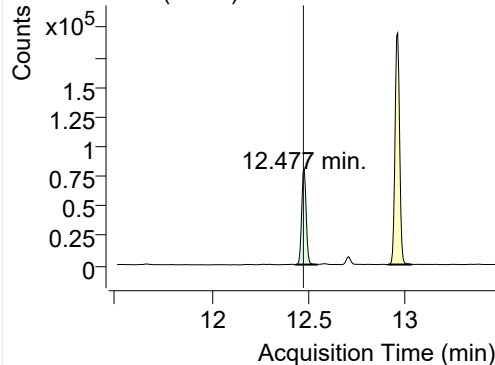
178.0, 179.0, 176.0



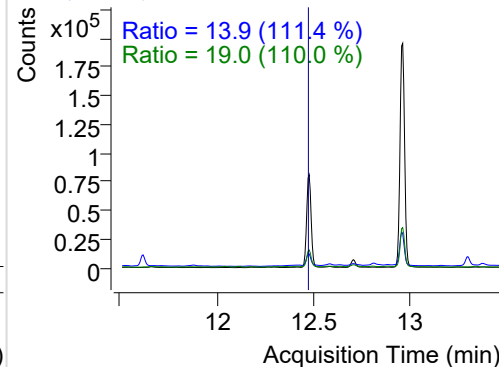
+ SIM (9.843-9.906 min, 7 scans) (**) 221208-I

**Fluoranthene**

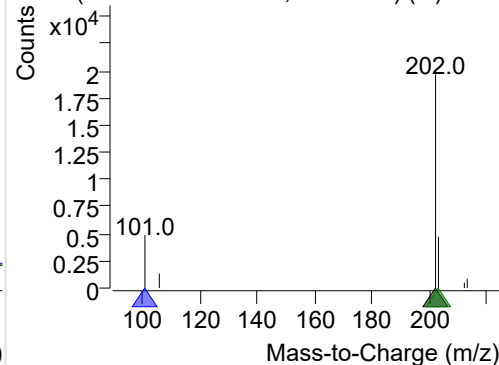
+ Selected Ion (202.0) 221208-PAHs-012.D



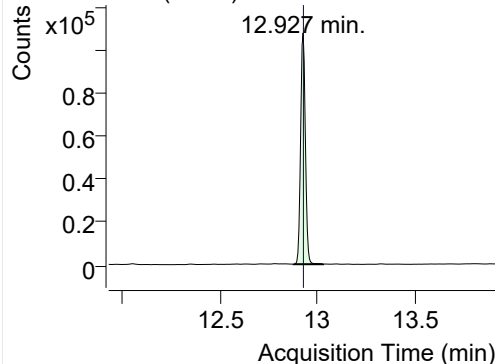
202.0, 101.0, 203.0



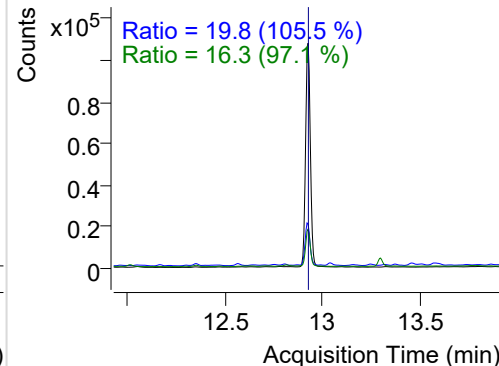
+ SIM (12.434-12.543 min, 21 scans) (**) 2212

**LSS-D10-Pyrene**

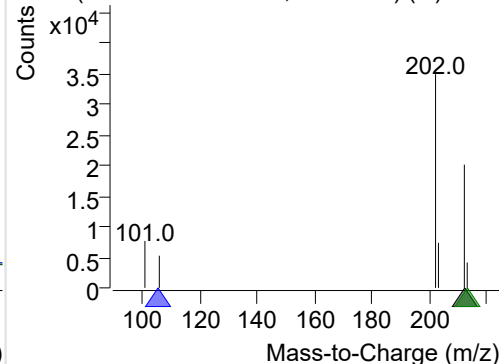
+ Selected Ion (212.0) 221208-PAHs-012.D



212.0, 106.0, 213.0

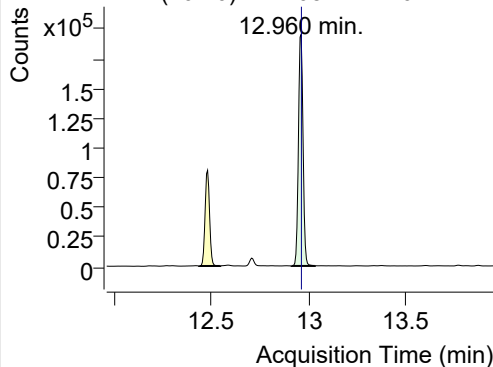


+ SIM (12.879-13.030 min, 29 scans) (**) 2212

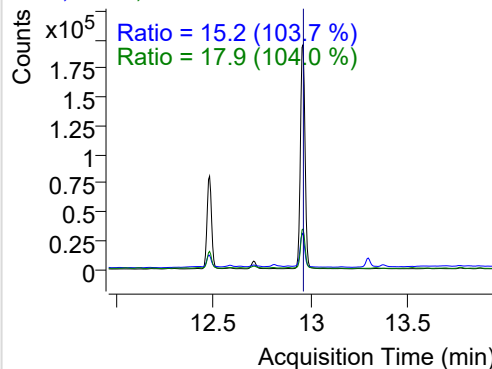


Pyrene

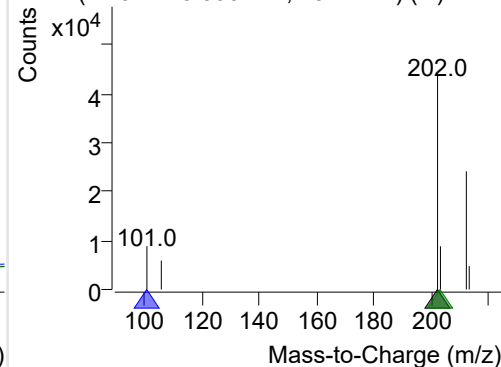
+ Selected Ion (202.0) 221208-PAHs-012.D



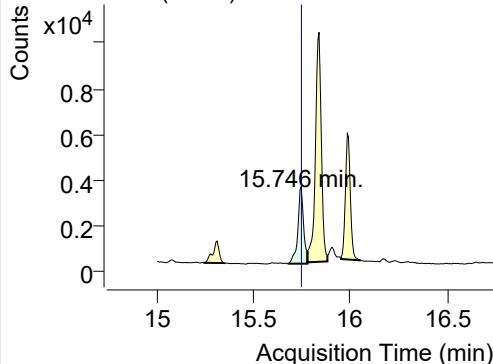
202.0, 101.0, 203.0



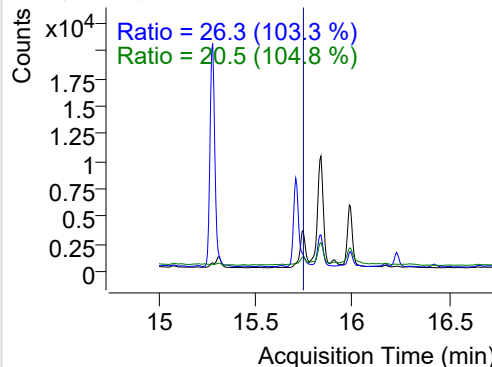
+ SIM (12.911-13.030 min, 23 scans) (**) 2212

**Benz(a)anthracene**

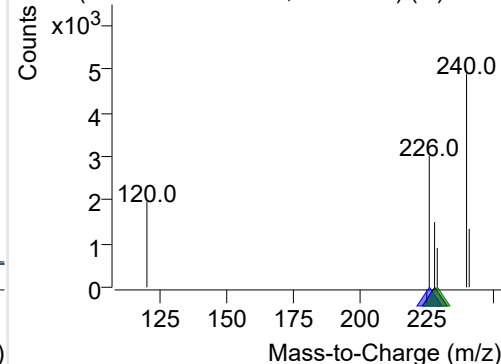
+ Selected Ion (228.0) 221208-PAHs-012.D



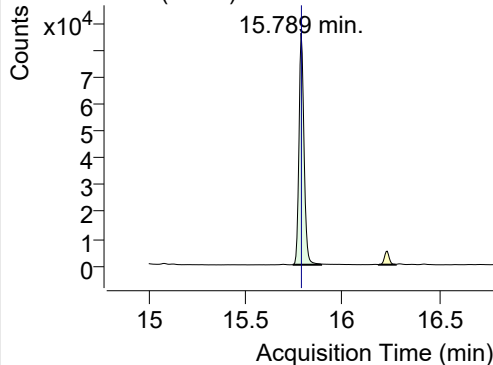
228.0, 226.0, 229.0



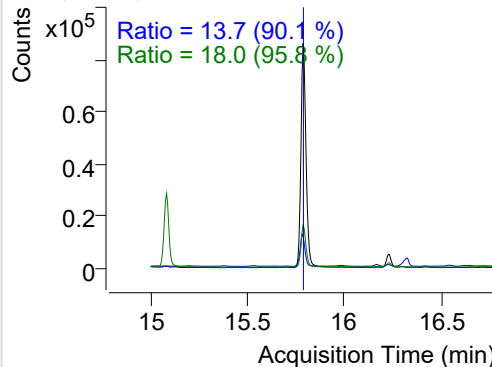
+ SIM (15.681-15.779 min, 19 scans) (**) 2212

**IS-D12-Chrysene**

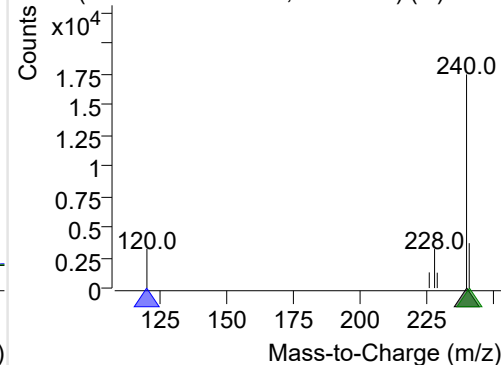
+ Selected Ion (240.0) 221208-PAHs-012.D



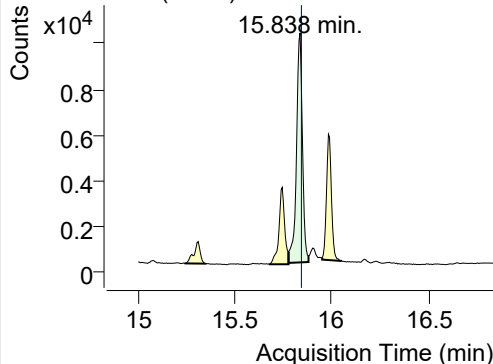
240.0, 120.0, 241.0



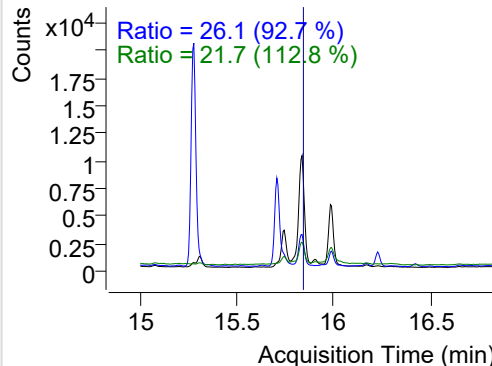
+ SIM (15.746-15.892 min, 28 scans) (**) 2212

**Chrysene**

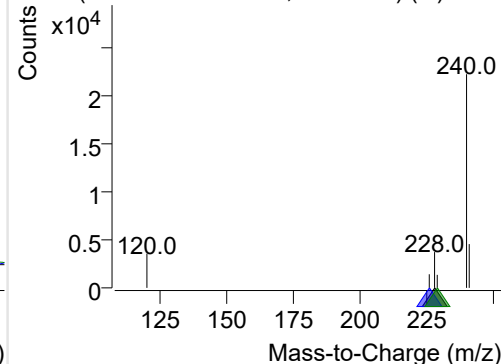
+ Selected Ion (228.0) 221208-PAHs-012.D



228.0, 226.0, 229.0

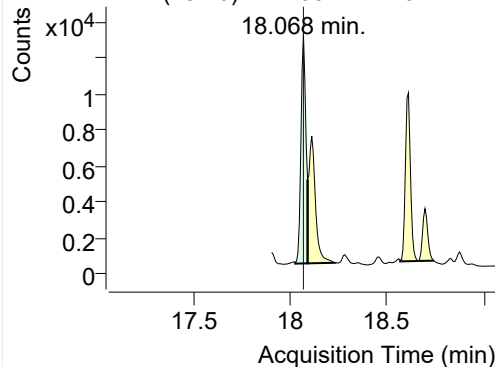


+ SIM (15.779-15.882 min, 20 scans) (**) 2212

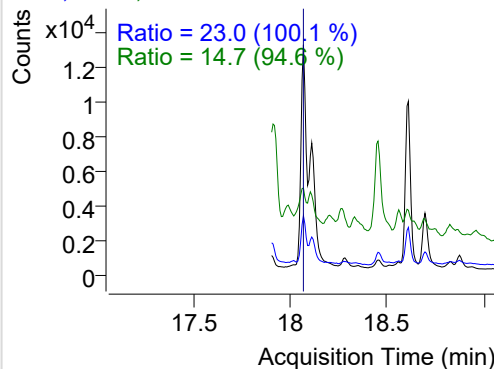


Benzo(b)fluoranthene

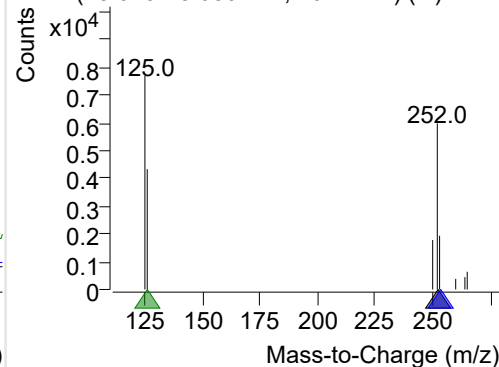
+ Selected Ion (252.0) 221208-PAHs-012.D



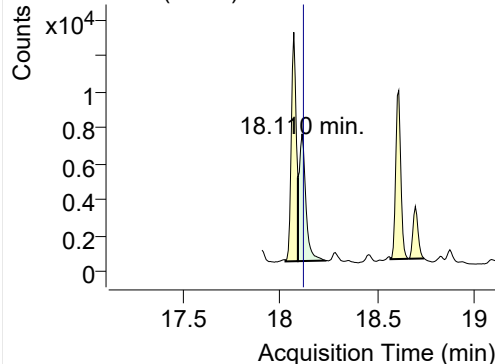
252.0, 253.0, 126.0



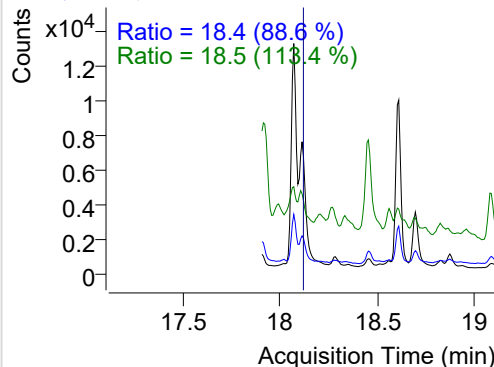
+ SIM (18.025-18.089 min, 10 scans) (**) 2212

**Benzo(k)fluoranthene**

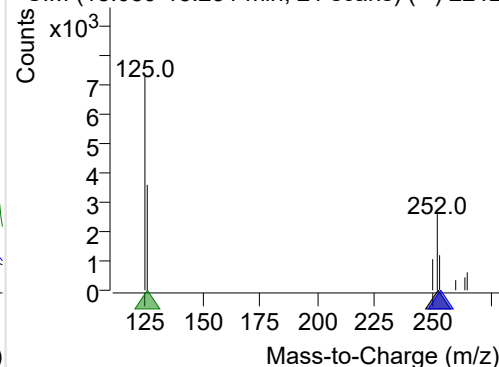
+ Selected Ion (252.0) 221208-PAHs-012.D



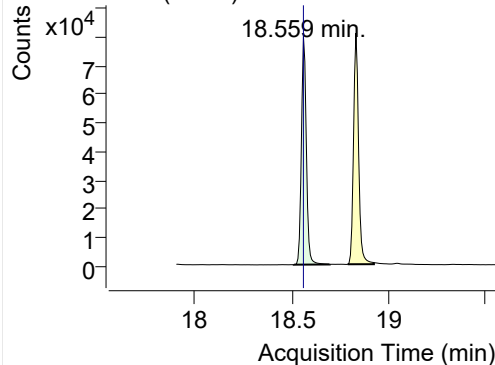
252.0, 253.0, 126.0



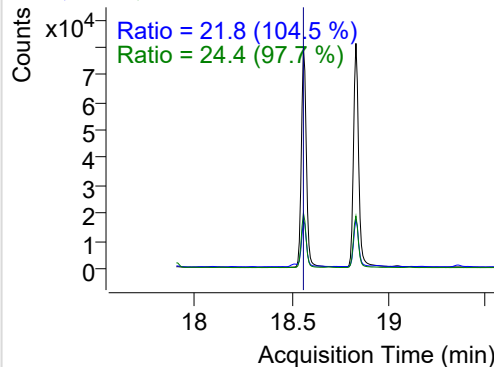
+ SIM (18.089-18.231 min, 21 scans) (**) 2212

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

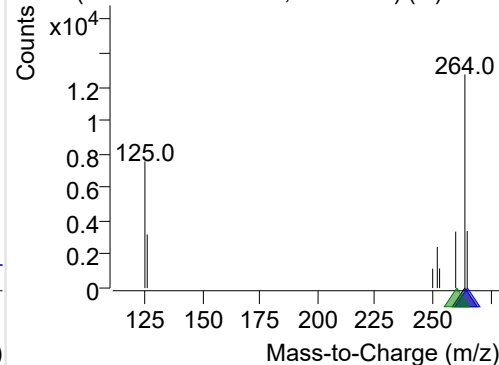
+ Selected Ion (264.0) 221208-PAHs-012.D



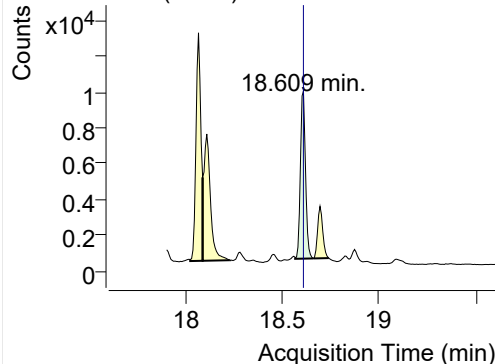
264.0, 265.0, 260.0



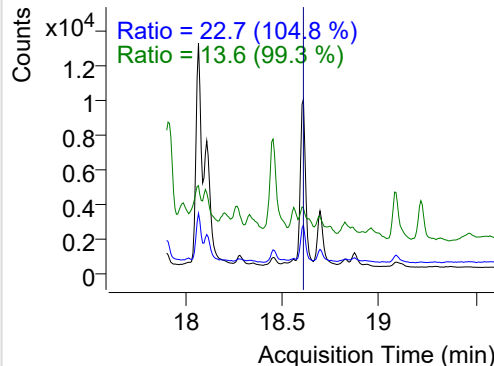
+ SIM (18.509-18.694 min, 27 scans) (**) 2212

**Benzo(e)pyrene**

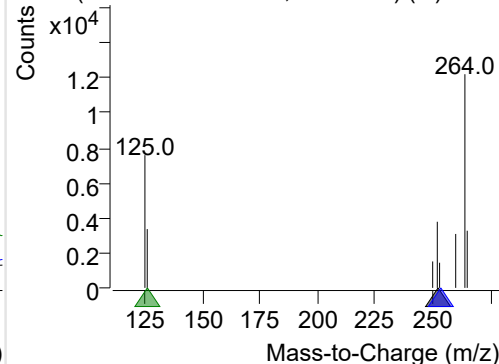
+ Selected Ion (252.0) 221208-PAHs-012.D



252.0, 253.0, 126.0

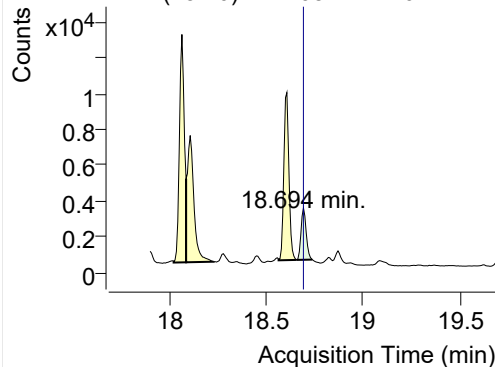


+ SIM (18.566-18.657 min, 13 scans) (**) 2212

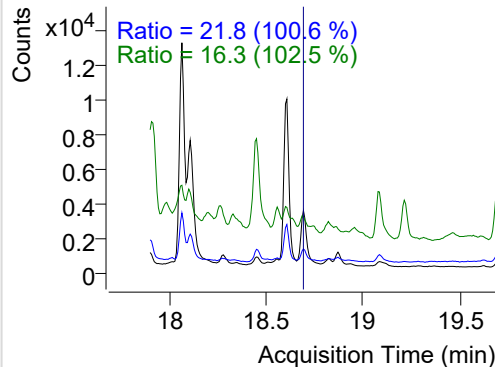


Benzo(a)pyrene

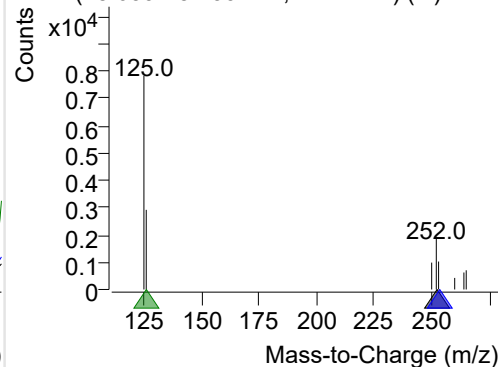
+ Selected Ion (252.0) 221208-PAHs-012.D



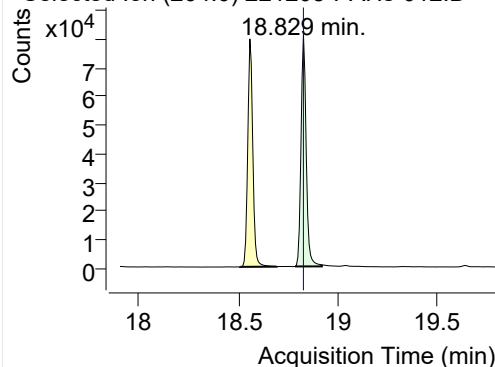
252.0, 253.0, 126.0



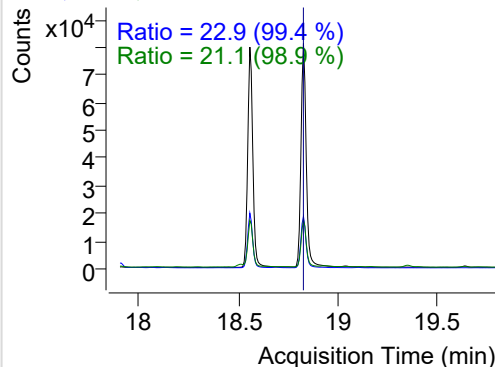
+ SIM (18.659-18.739 min, 11 scans) (**) 2212

**IS-D12-Perylene**

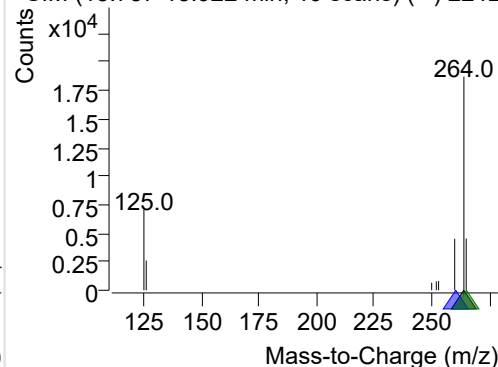
+ Selected Ion (264.0) 221208-PAHs-012.D



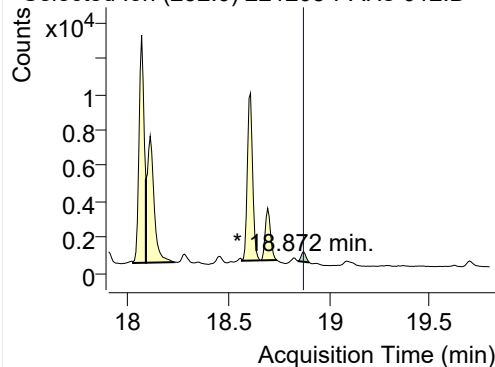
264.0, 260.0, 265.0



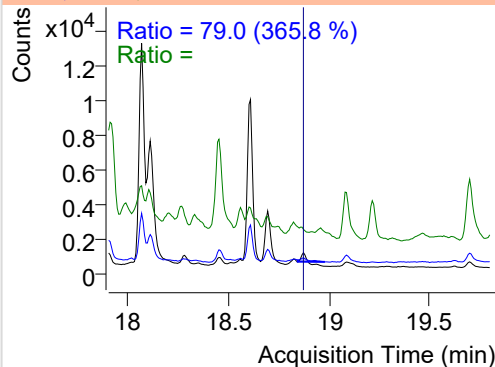
+ SIM (18.787-18.922 min, 19 scans) (**) 2212

**Perylene**

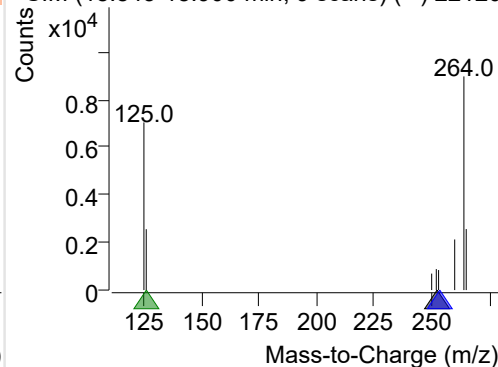
+ Selected Ion (252.0) 221208-PAHs-012.D



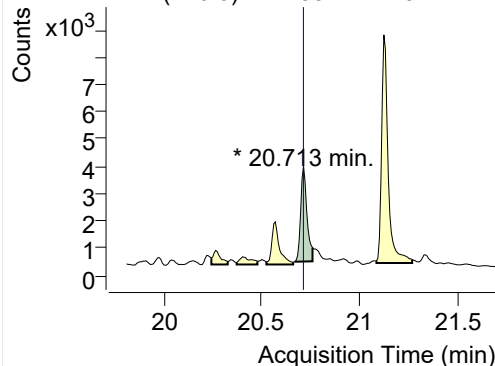
252.0, 253.0, 126.0



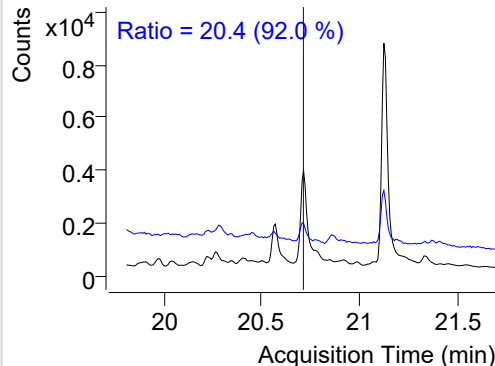
+ SIM (18.843-18.900 min, 9 scans) (**) 22120

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

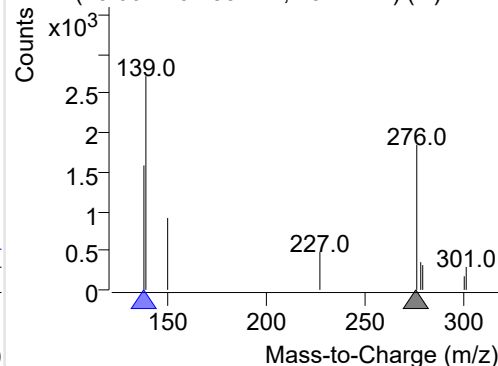
+ Selected Ion (276.0) 221208-PAHs-012.D



276.0, 138.0

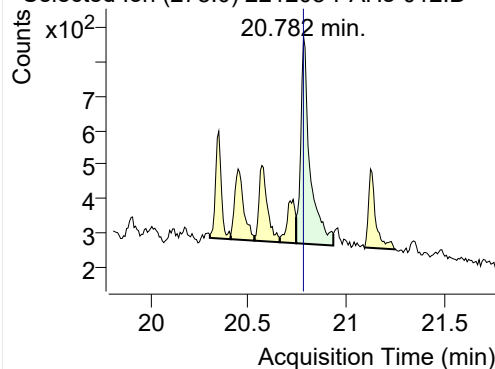


+ SIM (20.667-20.759 min, 13 scans) (**) 2212

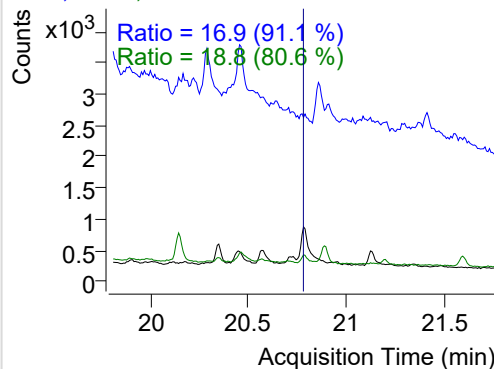


Dibenz(a,h)anthracene

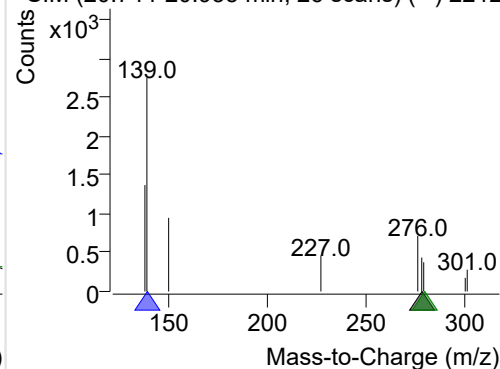
+ Selected Ion (278.0) 221208-PAHs-012.D



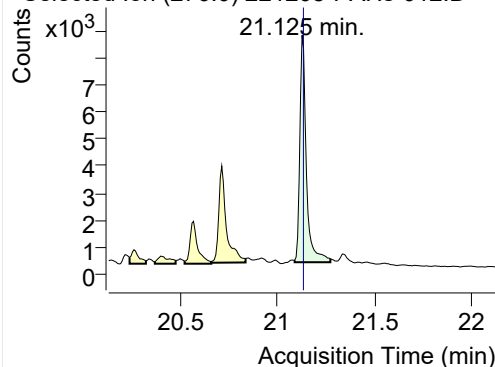
278.0, 139.0, 279.0



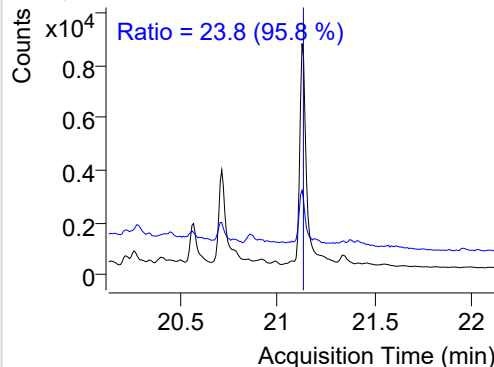
+ SIM (20.744-20.935 min, 26 scans) (**) 2212

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

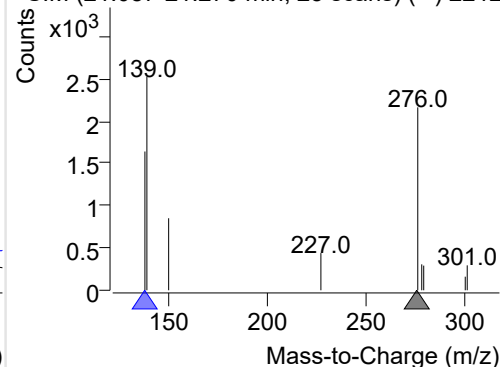
+ Selected Ion (276.0) 221208-PAHs-012.D



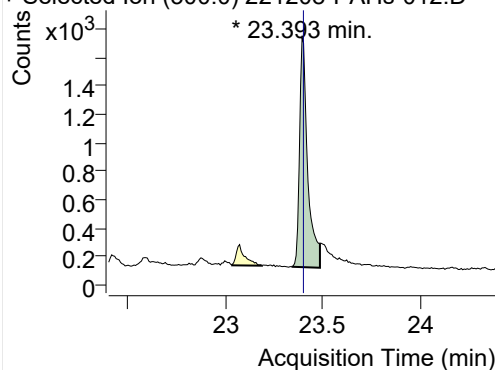
276.0, 138.0



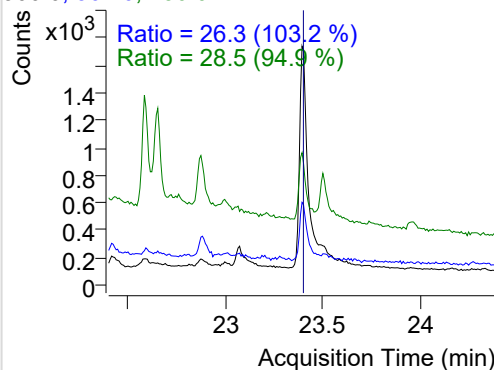
+ SIM (21.087-21.270 min, 25 scans) (**) 2212

**Coronene**

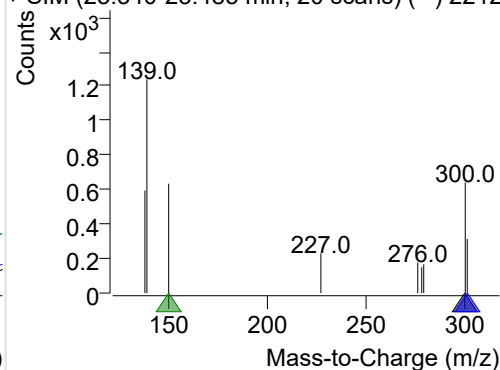
+ Selected Ion (300.0) 221208-PAHs-012.D



300.0, 301.0, 150.0



+ SIM (23.340-23.485 min, 20 scans) (**) 2212



Quantitative Analysis Sample Based Report

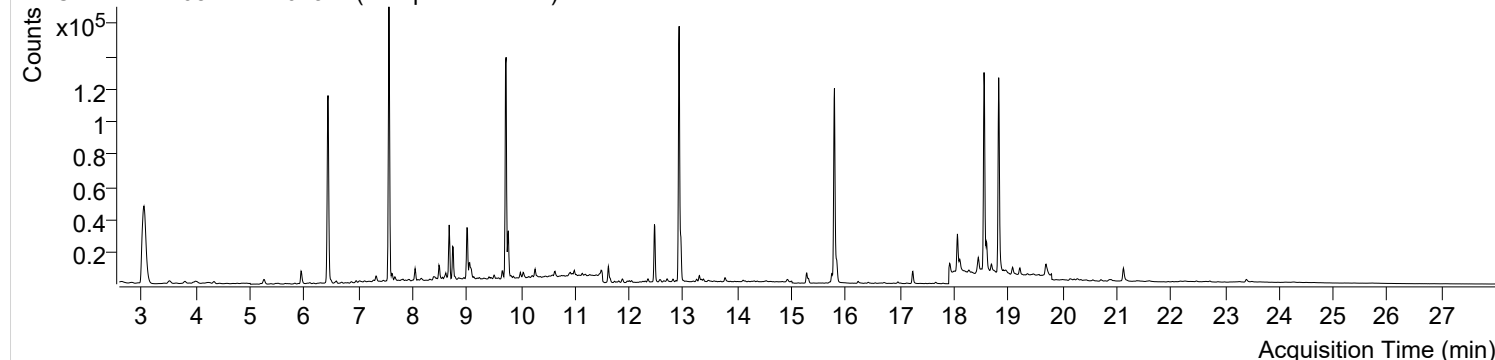


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-08 오후 11:49:42	Data File	221208-PAHs-013.D
Type	Sample	Name	Sample-PM-1114
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

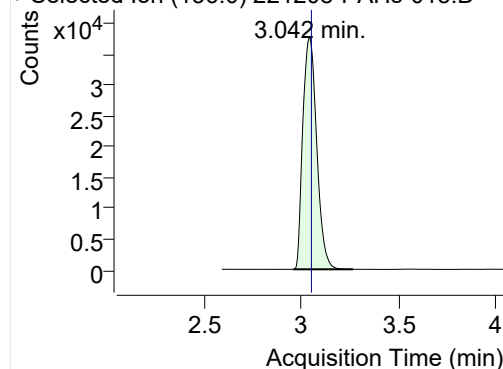
+ TIC SIM 221208-PAHs-013.D (Sample-PM-1114)



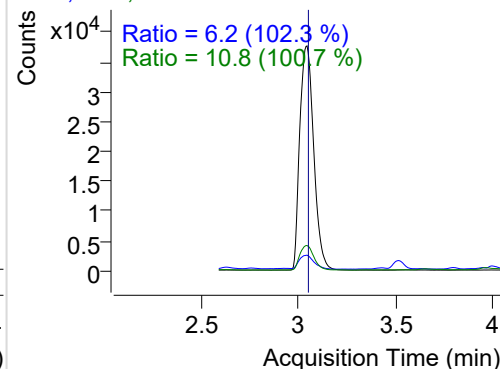
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	186981	37552.13	ND ng/ml	10.8
Naphthalene	3.063	128.0	16262	3253.78	ND ng/ml	14.0
Acenaphthylene	6.102	152.0	1111	446.48	ND ng/ml	18.4
IS-D10-Acenaphthene	6.439	164.0	111238	55777.88	ND ng/ml	93.2
Acenaphthene	6.493	154.0	697	381.69	ND ng/ml	120.7
LSS-D10-Fluorene	7.564	176.0	128213	76683.00	ND ng/ml	90.1
Fluorene	7.617	166.0	3958	1906.23	ND ng/ml	93.4
IS-D10-Phenanthrene	9.727	188.0	189665	110595.8	ND ng/ml	15.0
Phenanthrene	9.769	178.0	30873	18811.80	ND ng/ml	18.1
Anthracene	9.864	178.0	942	519.98	ND ng/ml	18.6
Fluoranthene	12.467	202.0	44195	26575.37	ND ng/ml	18.7
LSS-D10-Pyrene	12.922	212.0	181197	115456.0	ND ng/ml	18.7
Pyrene	12.954	202.0	30936	19067.63	ND ng/ml	19.5
Benz(a)anthracene	15.741	228.0	7164	4033.22	ND ng/ml	24.8
IS-D12-Chrysene	15.789	240.0	162863	90303.38	ND ng/ml	18.2
Chrysene	15.833	228.0	17596	8013.93	ND ng/ml	25.6
Benzo(b)fluoranthene	18.060	252.0	25240	13723.34	ND ng/ml	21.2
Benzo(k)fluoranthene	18.103	252.0	10055	4659.20	ND ng/ml	20.5
SS-D12-Benzo(e)pyrene	18.551	264.0	151684	82464.00	ND ng/ml	24.1
Benzo(e)pyrene	18.601	252.0	17633	9090.12	ND ng/ml	21.4
Benzo(a)pyrene	18.687	252.0	4572	1982.47	ND ng/ml	18.1
IS-D12-Perylene	18.822	264.0	151515	82121.42	ND ng/ml	22.7
Perylene	18.865	252.0	778	416.16	ND ng/ml	17.5
Indeno(1,2,3-c,d)pyrene	20.713	276.0	1403	656.57	ND ng/ml	22.3
Dibenz(a,h)anthracene	20.789	278.0	597	128.55	ND ng/ml	
Benzo(g,h,i)perylene	21.125	276.0	14916	6278.08	ND ng/ml	24.4
Coronene	23.393	300.0	3303	1002.00	ND ng/ml	26.3

IS-D8-Naphthalene

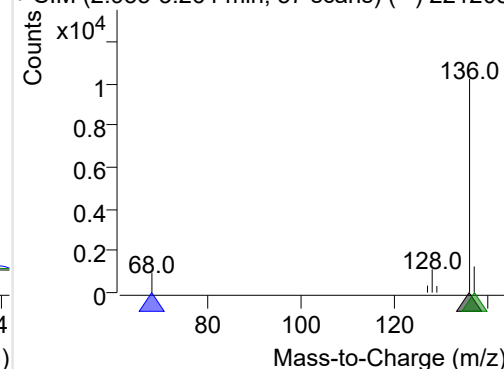
+ Selected Ion (136.0) 221208-PAHs-013.D



136.0, 68.0, 137.0

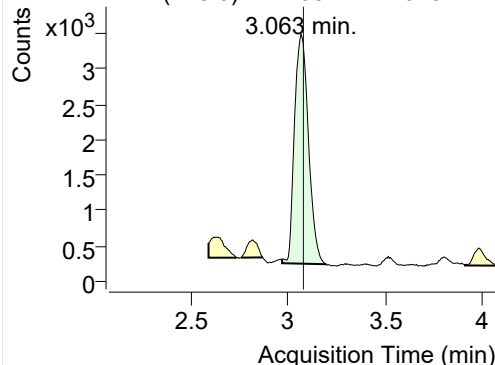


+ SIM (2.955-3.264 min, 57 scans) (**) 221208

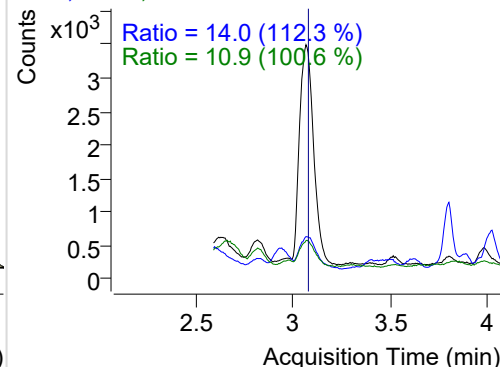


Naphthalene

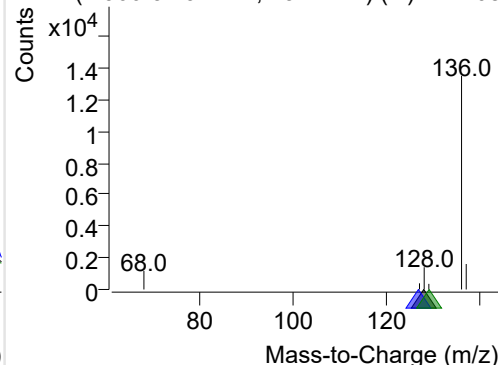
+ Selected Ion (128.0) 221208-PAHs-013.D



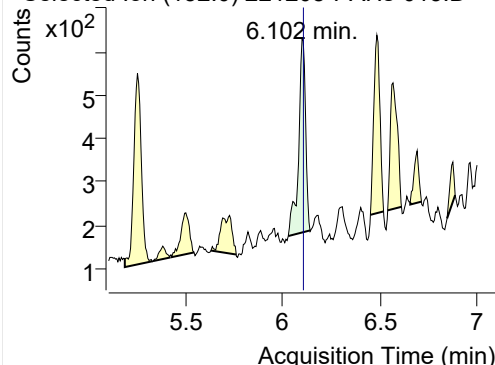
128.0, 127.0, 129.0



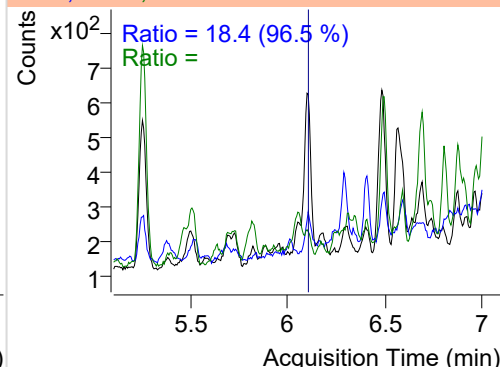
+ SIM (2.966-3.194 min, 43 scans) (**) 221208

**Acenaphthylene**

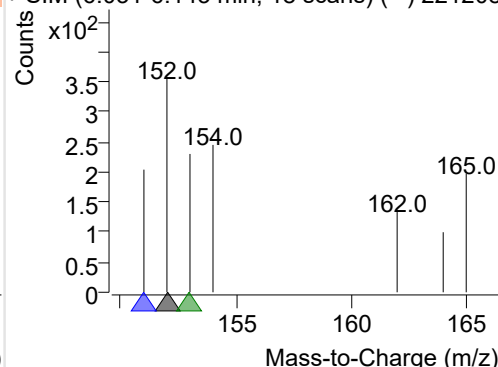
+ Selected Ion (152.0) 221208-PAHs-013.D



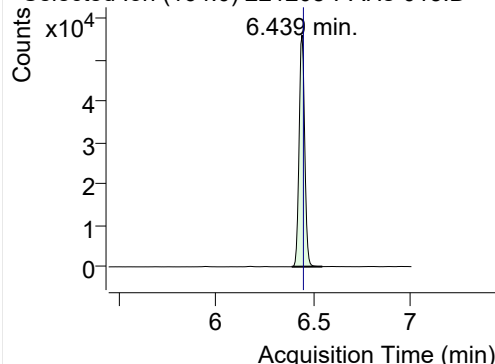
152.0, 151.0, 153.0



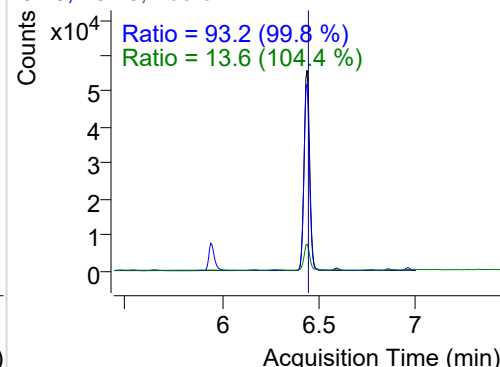
+ SIM (6.031-6.143 min, 18 scans) (**) 221208

**IS-D10-Acenaphthene**

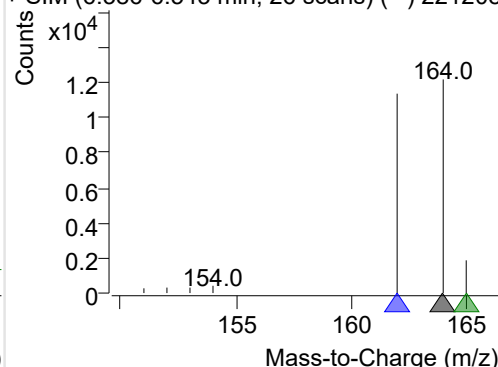
+ Selected Ion (164.0) 221208-PAHs-013.D



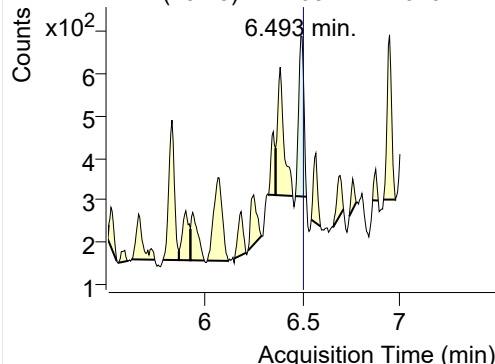
164.0, 162.0, 165.0



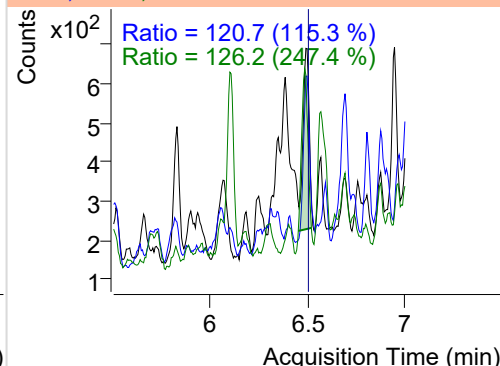
+ SIM (6.386-6.543 min, 26 scans) (**) 221208

**Acenaphthene**

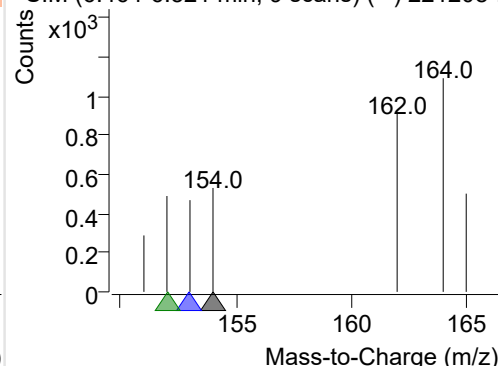
+ Selected Ion (154.0) 221208-PAHs-013.D



154.0, 153.0, 152.0

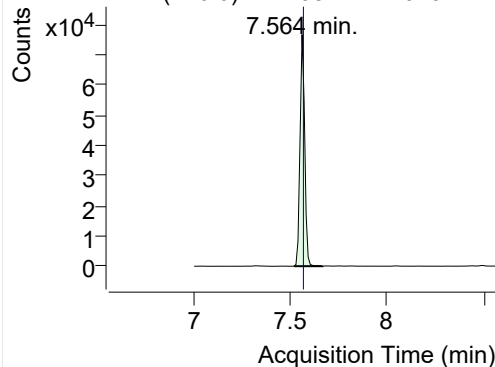


+ SIM (6.464-6.521 min, 9 scans) (**) 221208-I

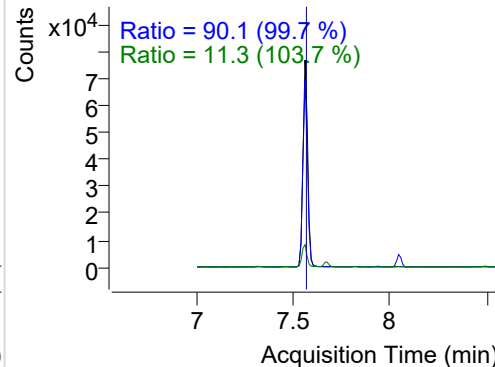


LSS-D10-Fluorene

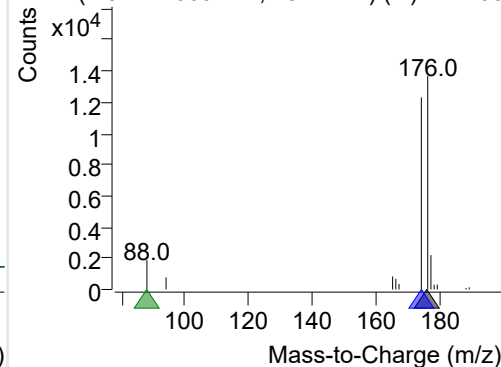
+ Selected Ion (176.0) 221208-PAHs-013.D



176.0, 174.0, 88.0

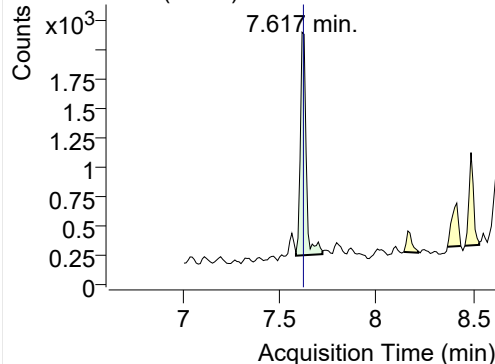


+ SIM (7.522-7.669 min, 15 scans) (**) 221208

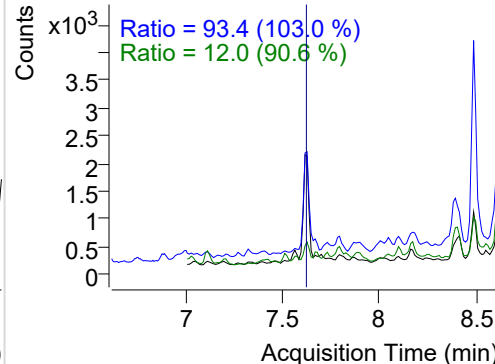


Fluorene

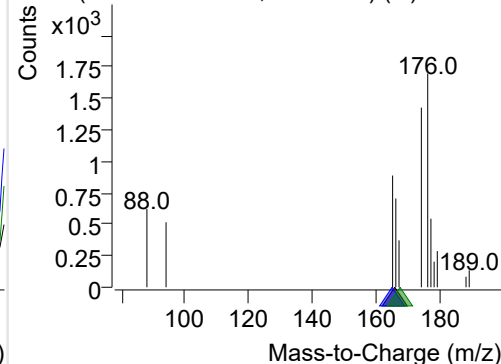
+ Selected Ion (166.0) 221208-PAHs-013.D



166.0, 165.0, 167.0

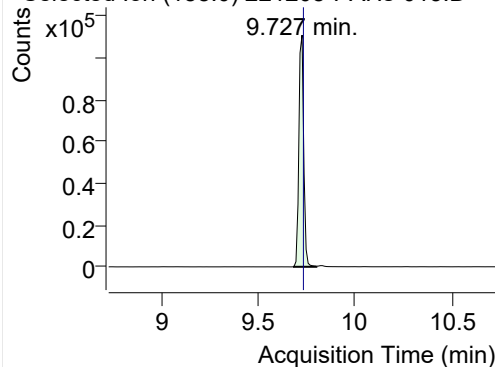


+ SIM (7.585-7.722 min, 14 scans) (**) 221208

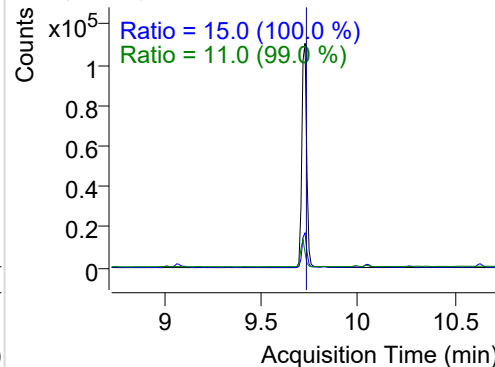


IS-D10-Phenanthrene

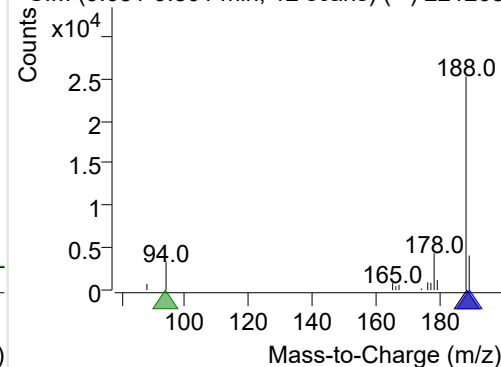
+ Selected Ion (188.0) 221208-PAHs-013.D



188.0, 189.0, 94.0

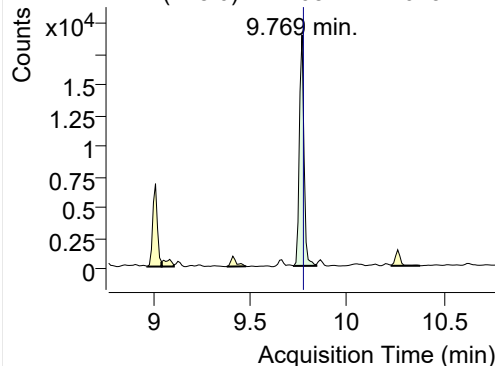


+ SIM (9.681-9.801 min, 12 scans) (**) 221208

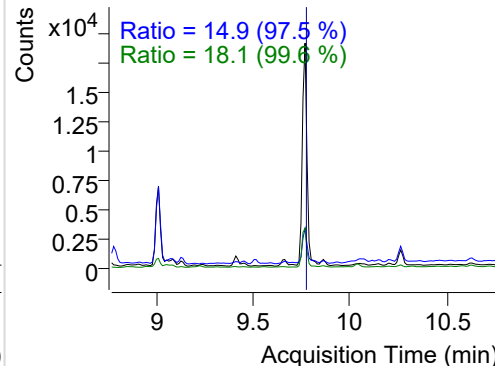


Phenanthrene

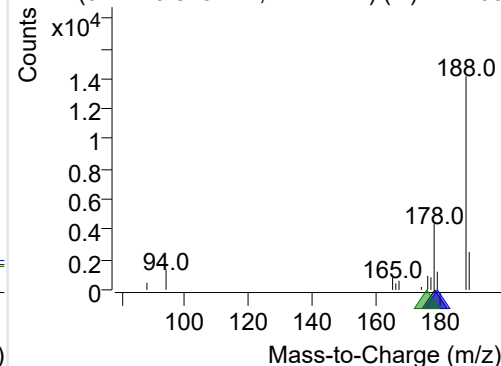
+ Selected Ion (178.0) 221208-PAHs-013.D



178.0, 179.0, 176.0

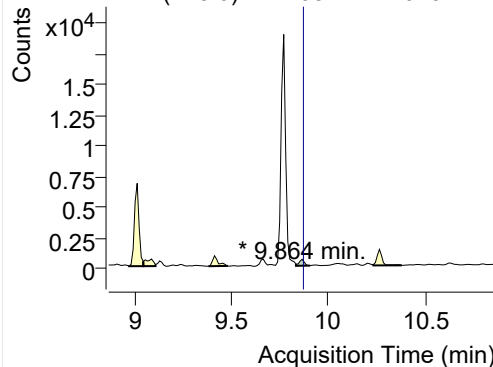


+ SIM (9.727-9.843 min, 12 scans) (**) 221208

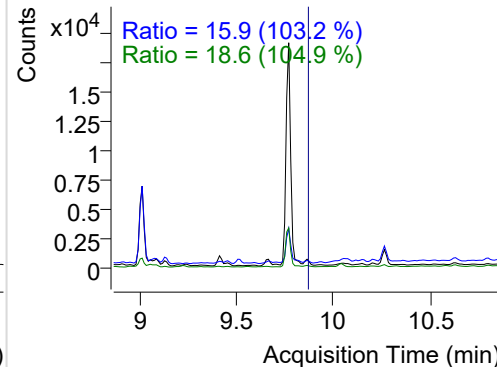


Anthracene

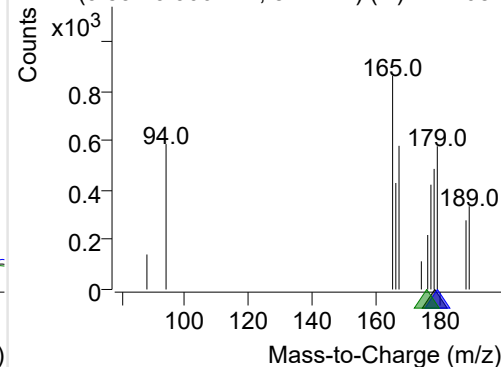
+ Selected Ion (178.0) 221208-PAHs-013.D



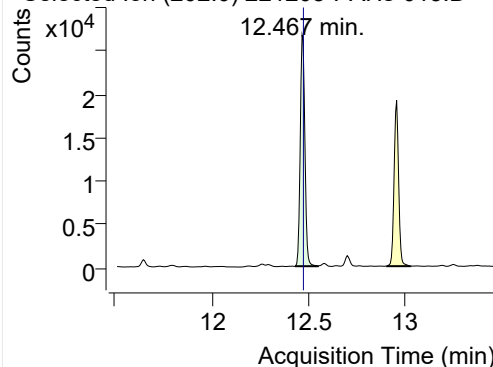
178.0, 179.0, 176.0



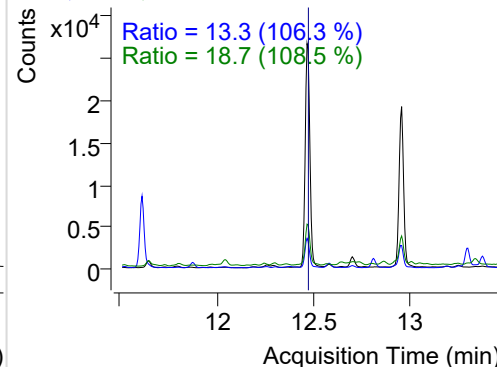
+ SIM (9.832-9.906 min, 8 scans) (**) 221208-I

**Fluoranthene**

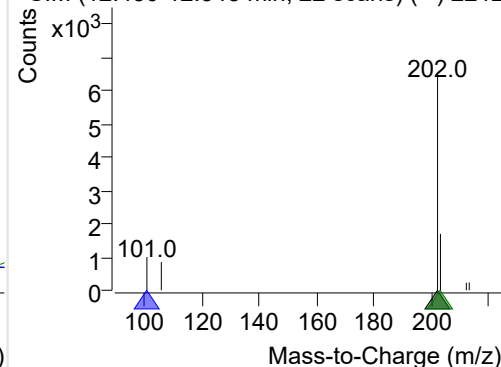
+ Selected Ion (202.0) 221208-PAHs-013.D



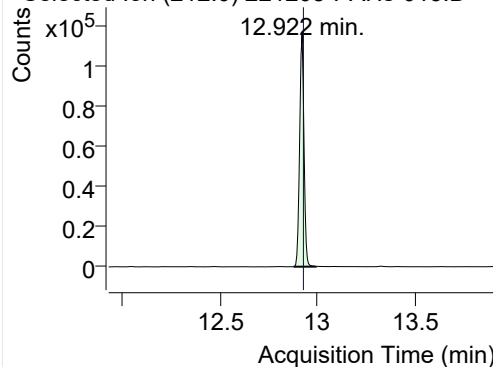
202.0, 101.0, 203.0



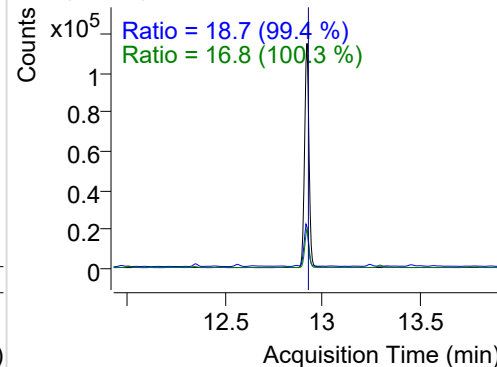
+ SIM (12.430-12.548 min, 22 scans) (**) 2212

**LSS-D10-Pyrene**

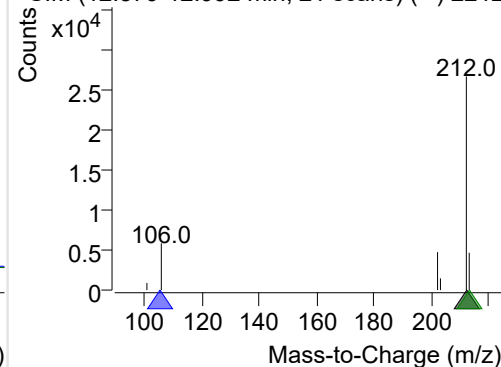
+ Selected Ion (212.0) 221208-PAHs-013.D



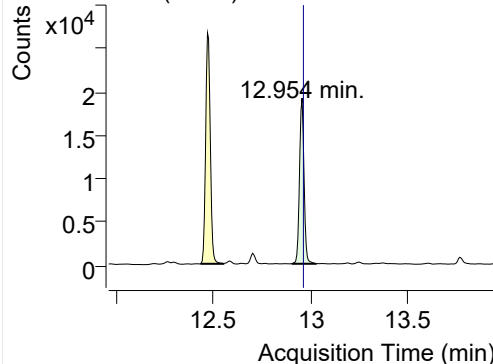
212.0, 106.0, 213.0



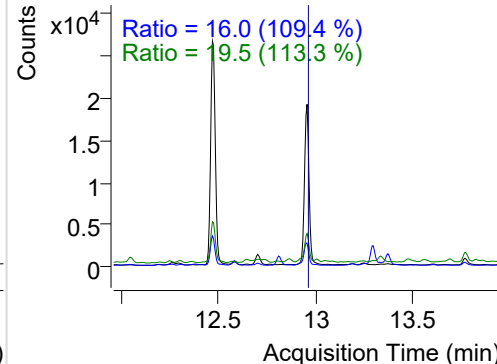
+ SIM (12.879-12.992 min, 21 scans) (**) 2212

**Pyrene**

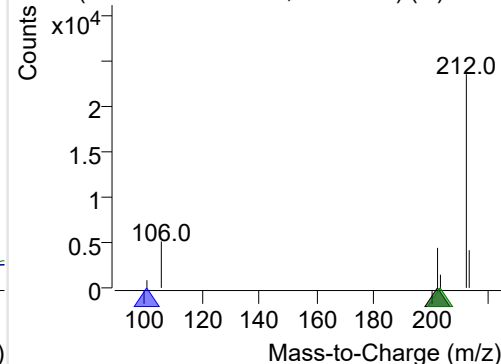
+ Selected Ion (202.0) 221208-PAHs-013.D



202.0, 101.0, 203.0

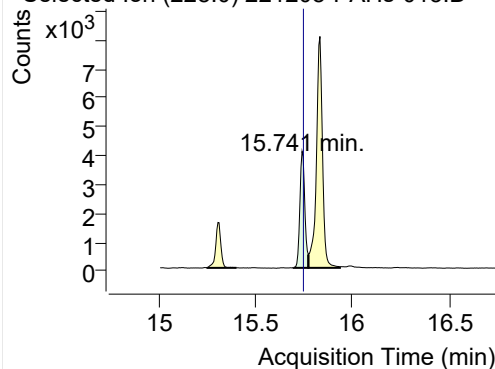


+ SIM (12.906-13.025 min, 23 scans) (**) 2212

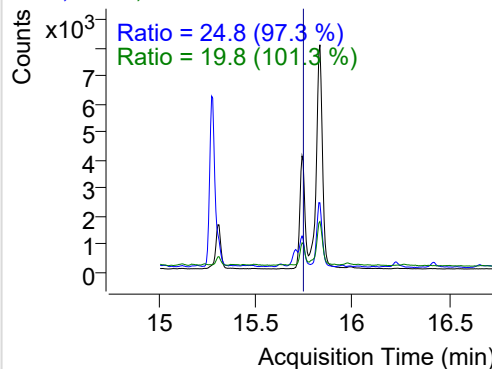


Benz(a)anthracene

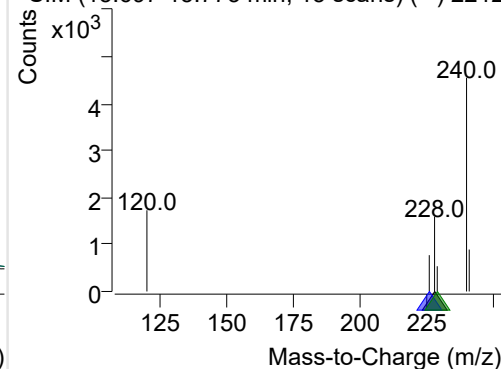
+ Selected Ion (228.0) 221208-PAHs-013.D



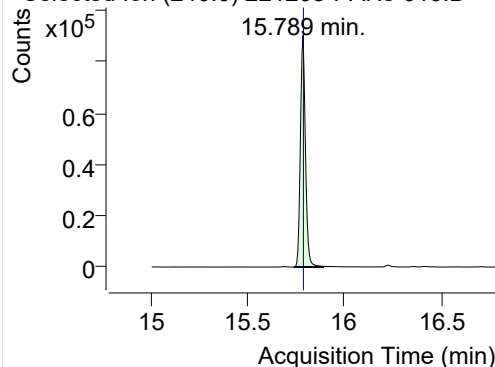
228.0, 226.0, 229.0



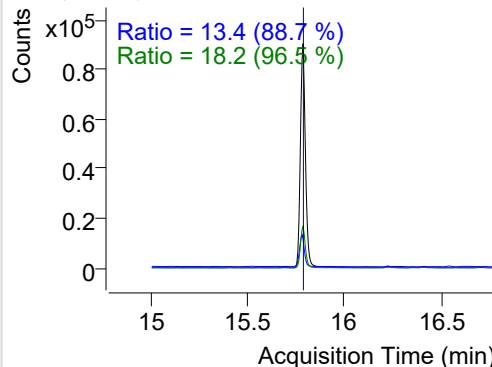
+ SIM (15.697-15.773 min, 15 scans) (**) 2212

**IS-D12-Chrysene**

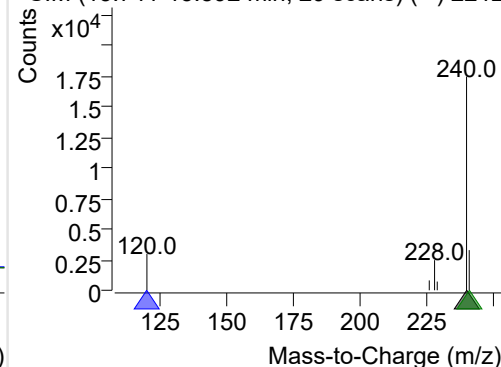
+ Selected Ion (240.0) 221208-PAHs-013.D



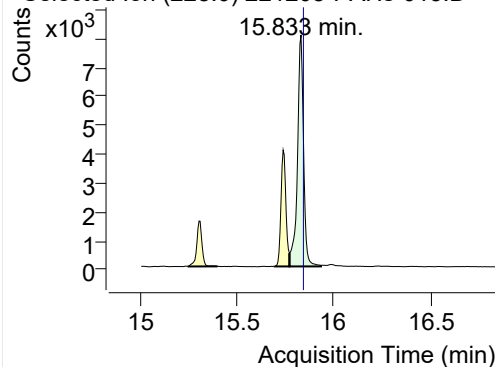
240.0, 120.0, 241.0



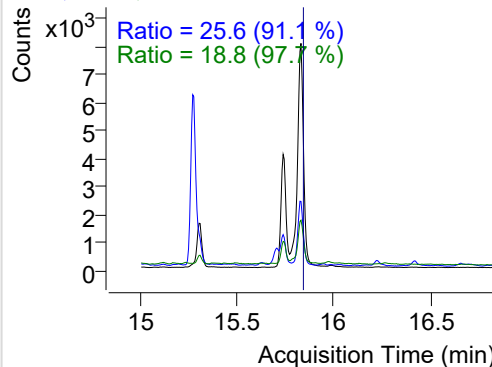
+ SIM (15.741-15.892 min, 29 scans) (**) 2212

**Chrysene**

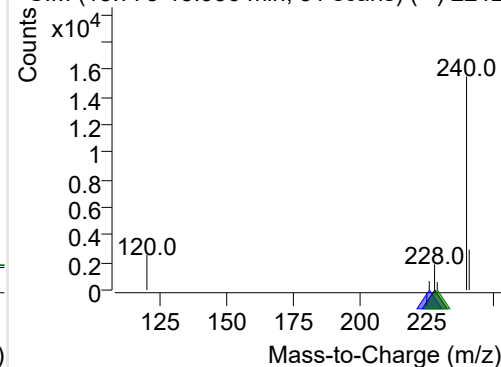
+ Selected Ion (228.0) 221208-PAHs-013.D



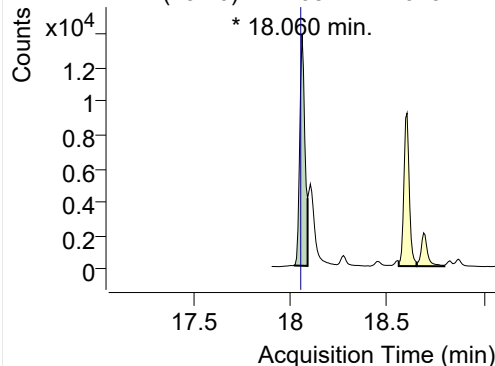
228.0, 226.0, 229.0



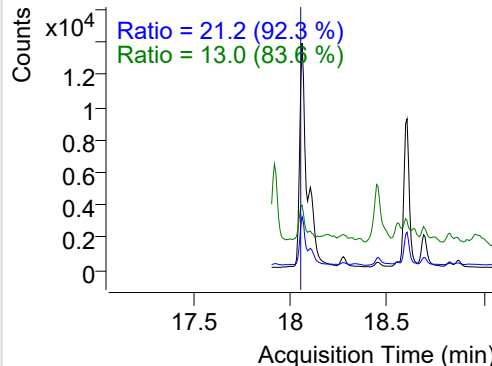
+ SIM (15.773-15.936 min, 31 scans) (**) 2212

**Benzo(b)fluoranthene**

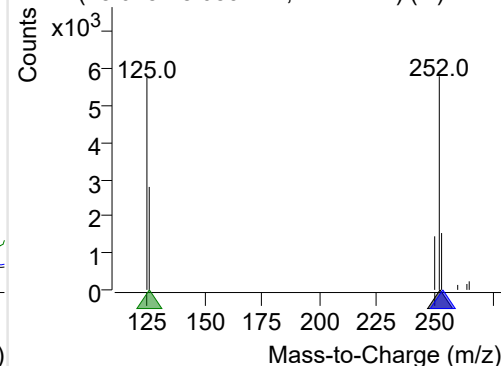
+ Selected Ion (252.0) 221208-PAHs-013.D



252.0, 253.0, 126.0

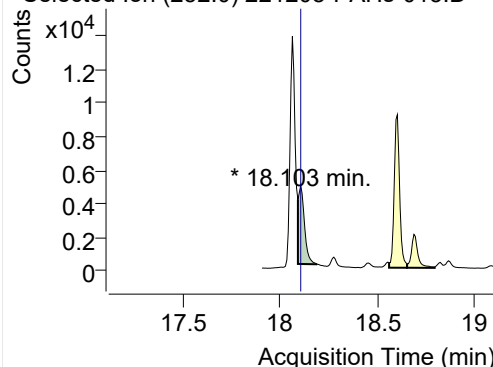


+ SIM (18.018-18.089 min, 11 scans) (**) 2212

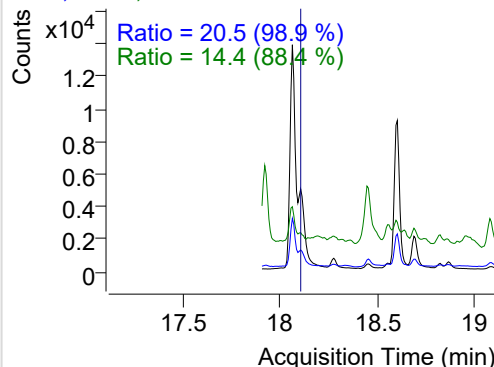


Benzo(k)fluoranthene

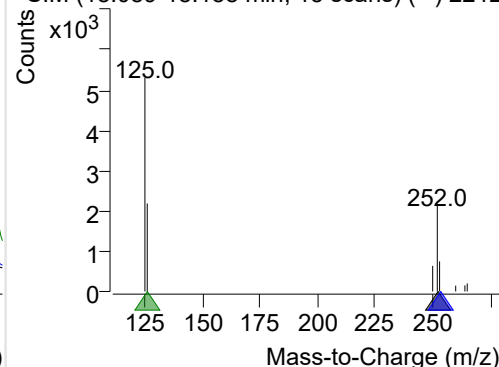
+ Selected Ion (252.0) 221208-PAHs-013.D



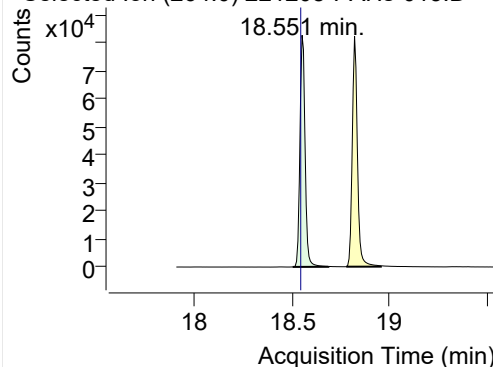
252.0, 253.0, 126.0



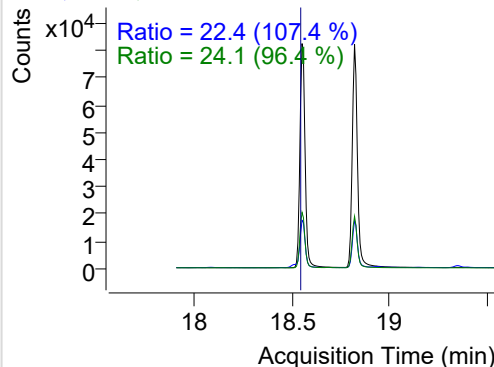
+ SIM (18.089-18.188 min, 15 scans) (**) 2212

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

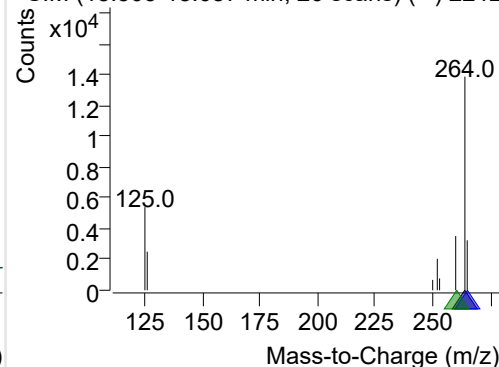
+ Selected Ion (264.0) 221208-PAHs-013.D



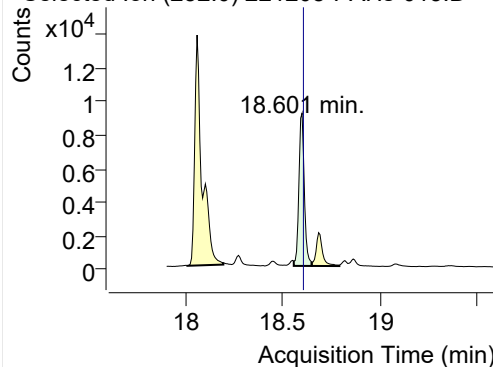
264.0, 265.0, 260.0



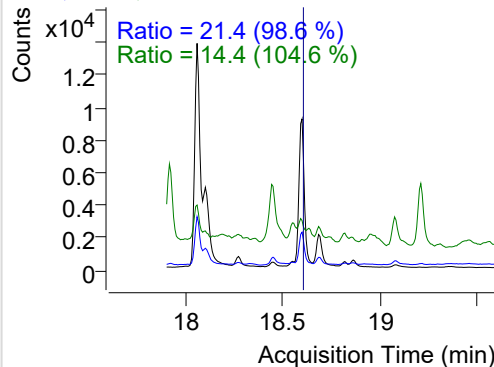
+ SIM (18.503-18.687 min, 26 scans) (**) 2212

**Benzo(e)pyrene**

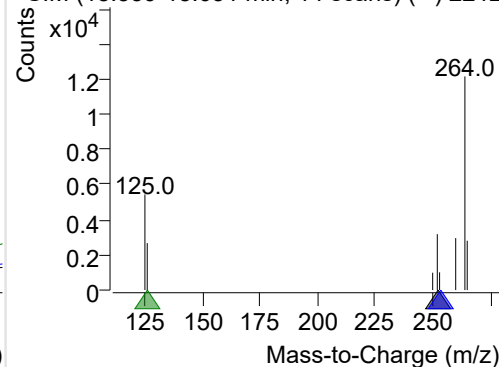
+ Selected Ion (252.0) 221208-PAHs-013.D



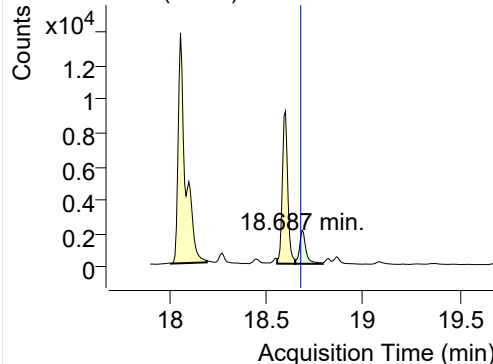
252.0, 253.0, 126.0



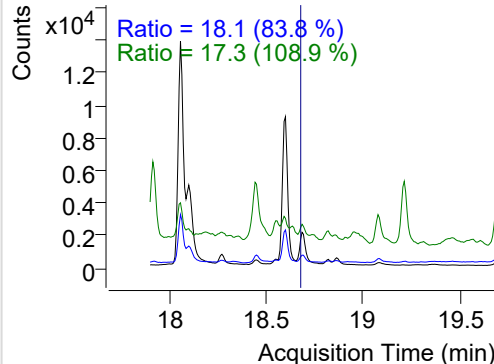
+ SIM (18.559-18.651 min, 14 scans) (**) 2212

**Benzo(a)pyrene**

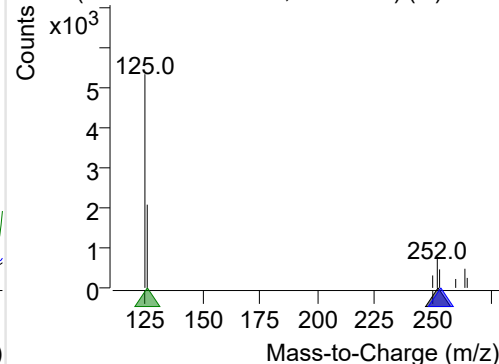
+ Selected Ion (252.0) 221208-PAHs-013.D



252.0, 253.0, 126.0

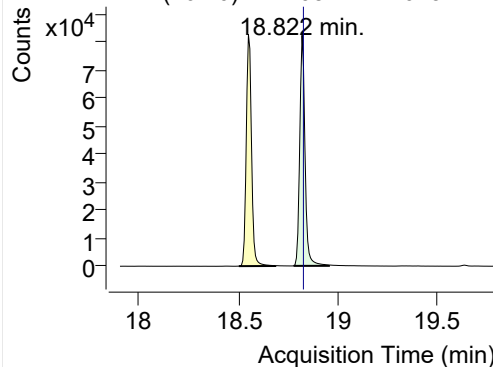


+ SIM (18.651-18.794 min, 21 scans) (**) 2212

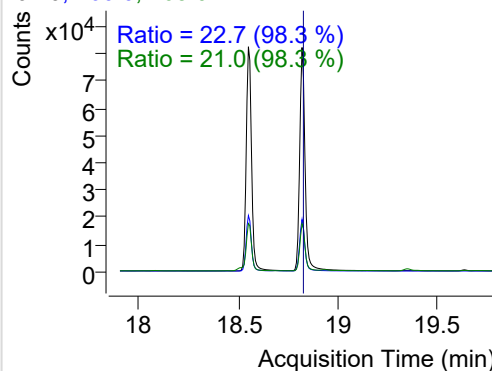


IS-D12-Perylene

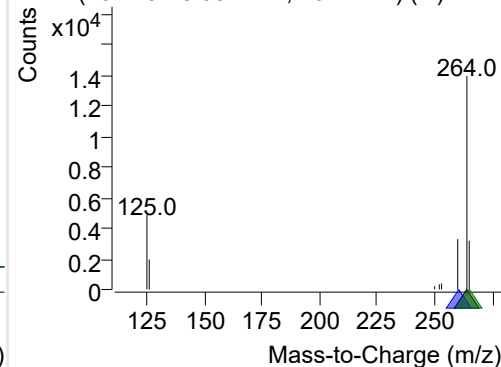
+ Selected Ion (264.0) 221208-PAHs-013.D



264.0, 260.0, 265.0

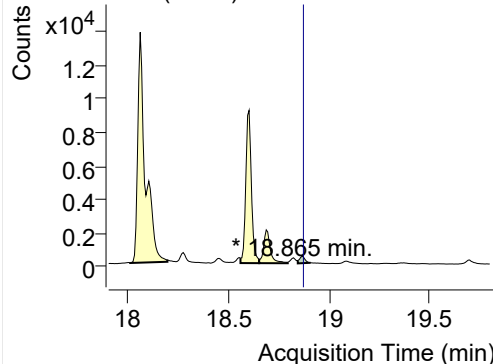


+ SIM (18.779-18.957 min, 26 scans) (**) 2212

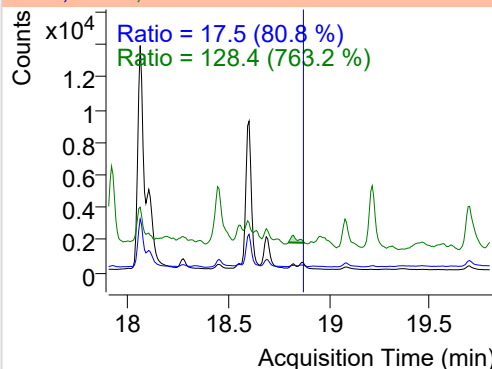


Perylene

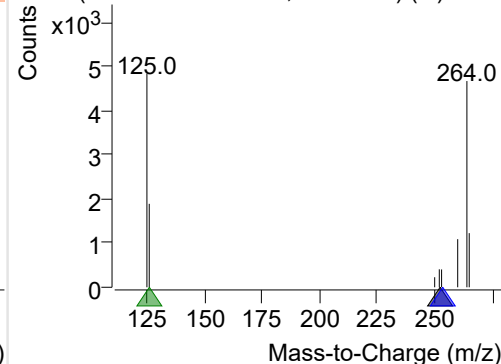
+ Selected Ion (252.0) 221208-PAHs-013.D



252.0, 253.0, 126.0

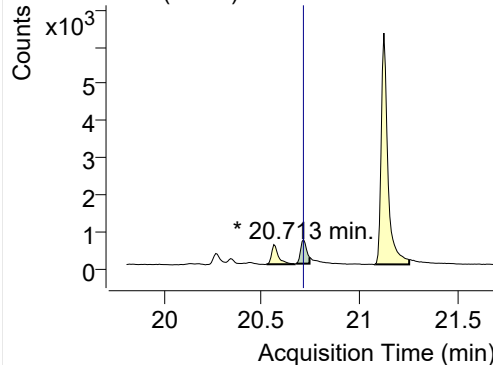


+ SIM (18.843-18.907 min, 10 scans) (**) 2212

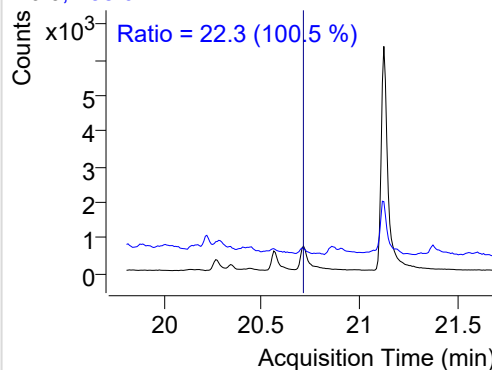


Indeno(1,2,3-c,d)pyrene

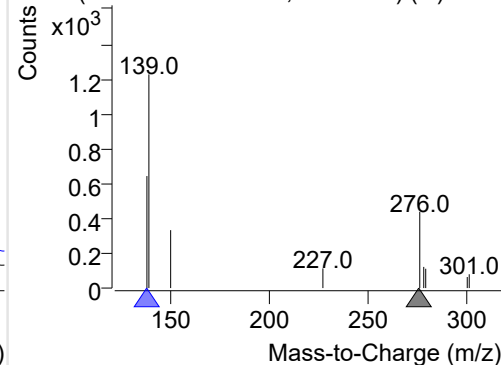
+ Selected Ion (276.0) 221208-PAHs-013.D



276.0, 138.0

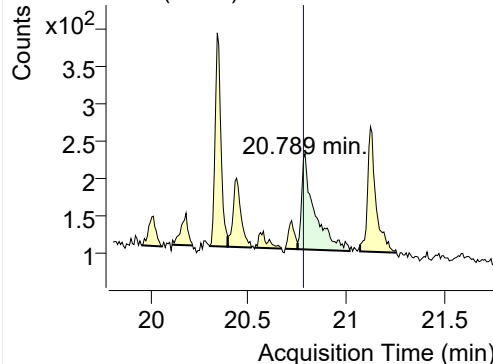


+ SIM (20.675-20.744 min, 10 scans) (**) 2212

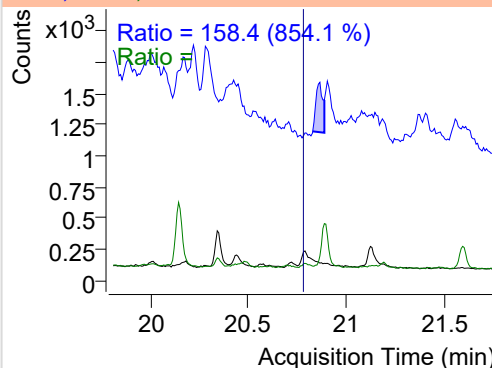


Dibenz(a,h)anthracene

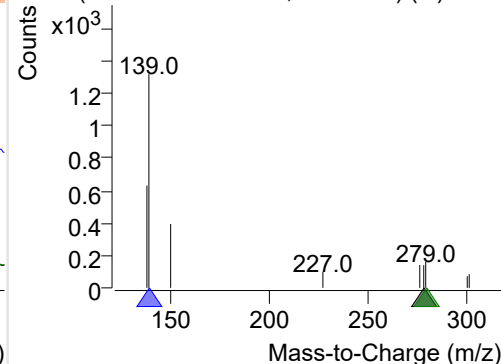
+ Selected Ion (278.0) 221208-PAHs-013.D



278.0, 139.0, 279.0

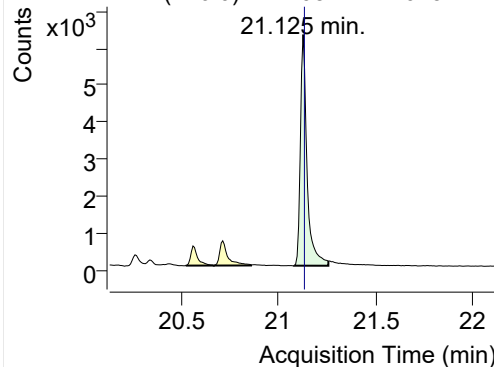


+ SIM (20.751-21.018 min, 36 scans) (**) 2212

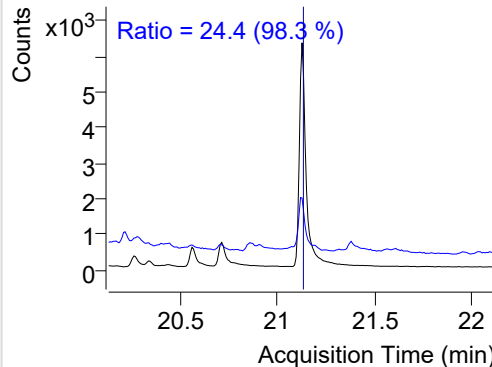


Benzo(g,h,i)perylene

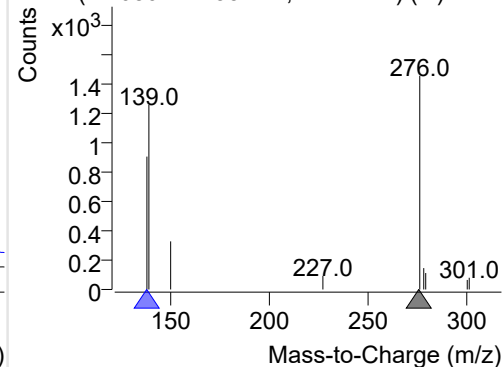
+ Selected Ion (276.0) 221208-PAHs-013.D



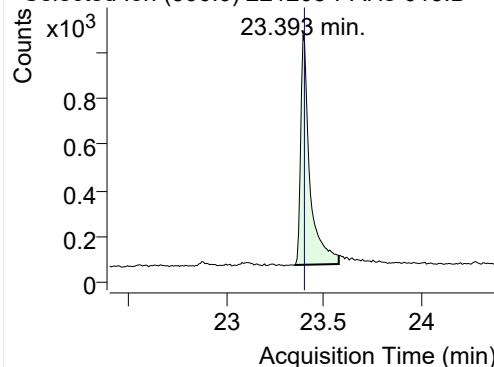
276.0, 138.0



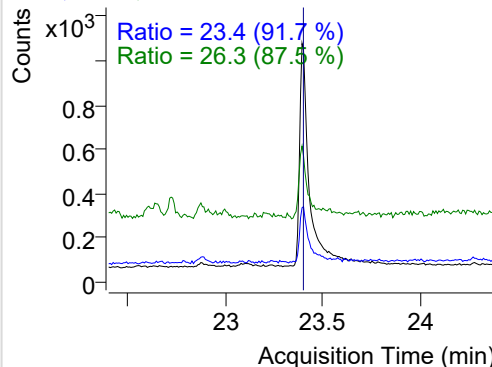
+ SIM (21.080-21.255 min, 24 scans) (**) 2212

**Coronene**

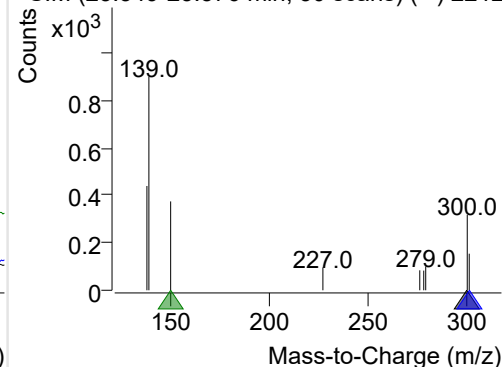
+ Selected Ion (300.0) 221208-PAHs-013.D



300.0, 301.0, 150.0



+ SIM (23.349-23.576 min, 30 scans) (**) 2212



Quantitative Analysis Sample Based Report

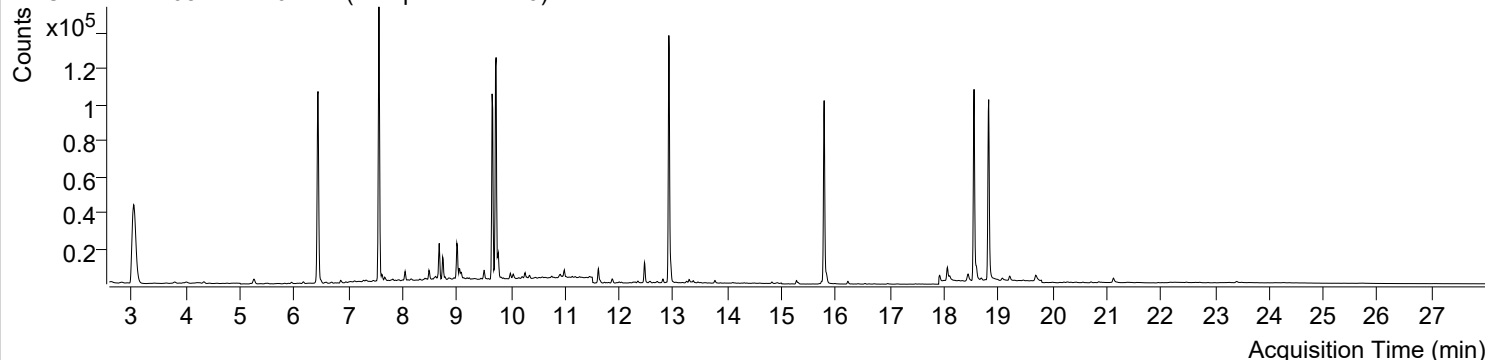


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 12:20:52	Data File	221208-PAHs-014.D
Type	Sample	Name	Sample-PM-1119
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

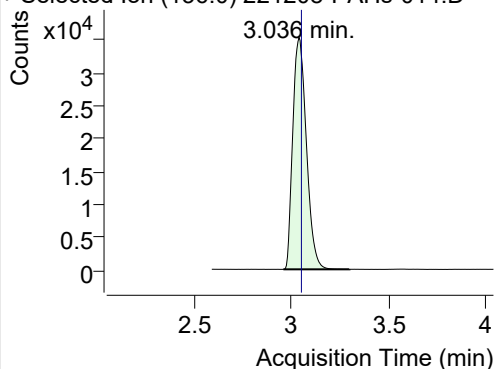
+ TIC SIM 221208-PAHs-014.D (Sample-PM-1119)



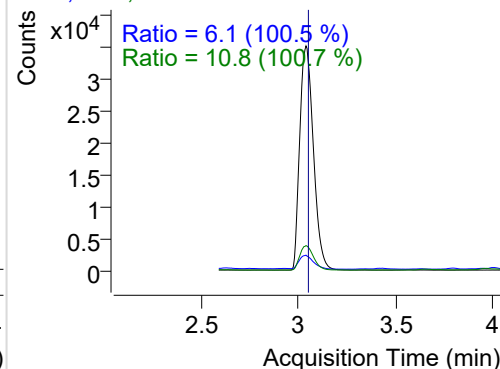
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	171555	35223.22	ND ng/ml	10.8
Naphthalene	3.063	128.0	13134	2689.76	ND ng/ml	13.7
Acenaphthylene	6.102	152.0	560	213.40	ND ng/ml	36.6
IS-D10-Acenaphthene	6.439	164.0	102696	52084.10	ND ng/ml	93.6
Acenaphthene	6.493	154.0	825	350.47	ND ng/ml	81.6
LSS-D10-Fluorene	7.564	176.0	115153	69835.42	ND ng/ml	90.5
Fluorene	7.617	166.0	2974	1478.49	ND ng/ml	98.5
IS-D10-Phenanthrene	9.727	188.0	171736	100699.9	ND ng/ml	15.0
Phenanthrene	9.769	178.0	15154	9065.87	ND ng/ml	18.1
Anthracene	9.864	178.0	279	210.20	ND ng/ml	
Fluoranthene	12.467	202.0	13919	8514.63	ND ng/ml	19.4
LSS-D10-Pyrene	12.917	212.0	162663	100854.8	ND ng/ml	18.6
Pyrene	12.949	202.0	11287	6507.29	ND ng/ml	18.2
Benz(a)anthracene	15.741	228.0	1840	1009.63	ND ng/ml	29.2
IS-D12-Chrysene	15.784	240.0	129793	76332.07	ND ng/ml	18.8
Chrysene	15.827	228.0	5586	2720.90	ND ng/ml	28.5
Benzo(b)fluoranthene	18.060	252.0	8118	4521.92	ND ng/ml	21.0
Benzo(k)fluoranthene	18.103	252.0	3362	1573.36	ND ng/ml	23.1
SS-D12-Benzo(e)pyrene	18.552	264.0	125856	72523.76	ND ng/ml	24.8
Benzo(e)pyrene	18.594	252.0	6560	3347.18	ND ng/ml	20.2
Benzo(a)pyrene	18.687	252.0	1116	458.18	ND ng/ml	16.2
IS-D12-Perylene	18.822	264.0	132549	69135.88	ND ng/ml	23.1
Perylene	18.858	252.0	131	65.40	ND ng/ml	24.3
Indeno(1,2,3-c,d)pyrene	20.713	276.0	763	347.25	ND ng/ml	21.9
Dibenz(a,h)anthracene	20.789	278.0	412	77.40	ND ng/ml	17.6
Benzo(g,h,i)perylene	21.125	276.0	5079	1910.39	ND ng/ml	29.0
Coronene	23.401	300.0	1483	415.16	ND ng/ml	25.8

IS-D8-Naphthalene

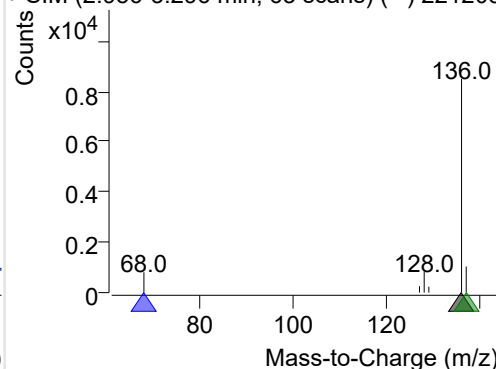
+ Selected Ion (136.0) 221208-PAHs-014.D



136.0, 68.0, 137.0

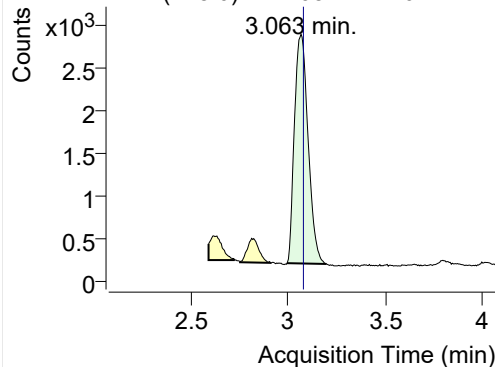


+ SIM (2.956-3.296 min, 63 scans) (**) 221208

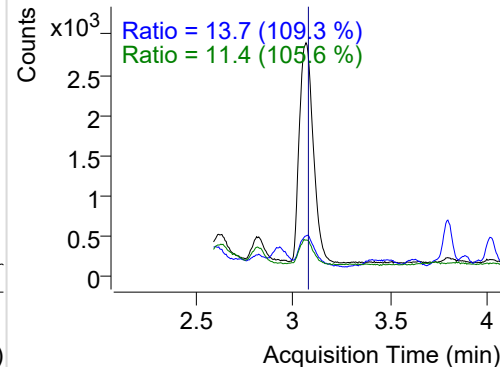


Naphthalene

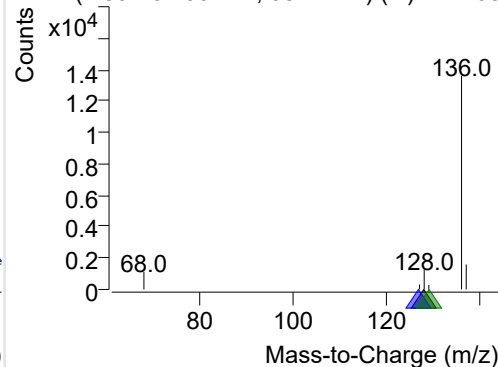
+ Selected Ion (128.0) 221208-PAHs-014.D



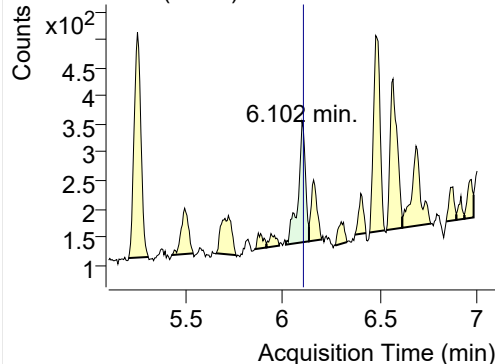
128.0, 127.0, 129.0



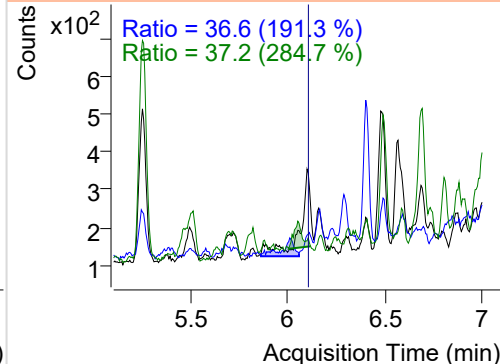
+ SIM (2.991-3.195 min, 38 scans) (**) 221208

**Acenaphthylene**

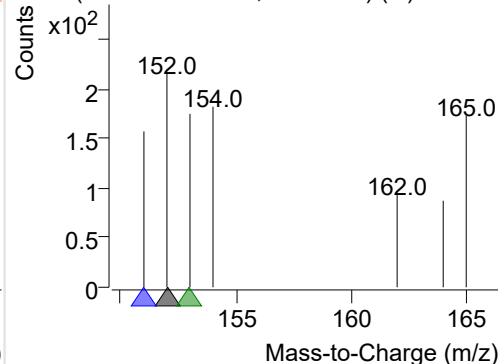
+ Selected Ion (152.0) 221208-PAHs-014.D



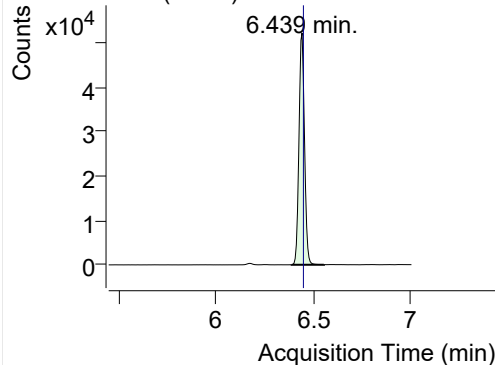
152.0, 151.0, 153.0



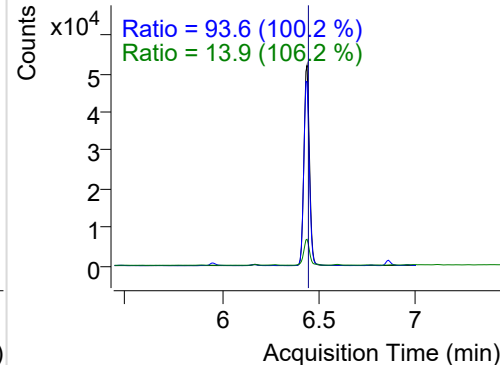
+ SIM (6.019-6.138 min, 21 scans) (**) 221208

**IS-D10-Acenaphthene**

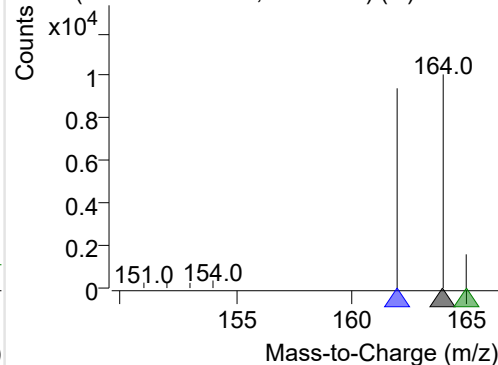
+ Selected Ion (164.0) 221208-PAHs-014.D



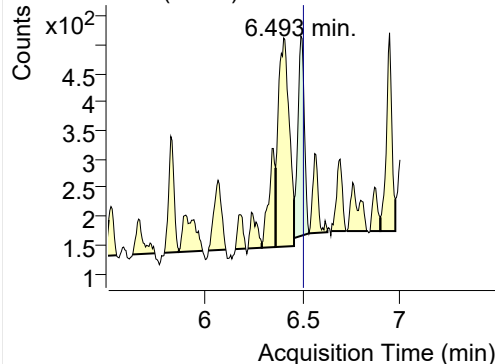
164.0, 162.0, 165.0



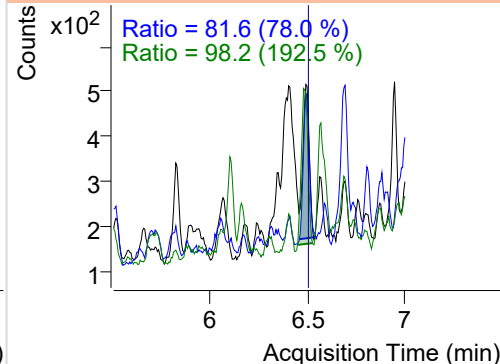
+ SIM (6.386-6.552 min, 29 scans) (**) 221208

**Acenaphthene**

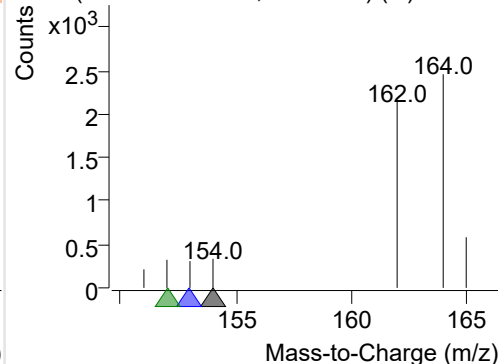
+ Selected Ion (154.0) 221208-PAHs-014.D



154.0, 153.0, 152.0

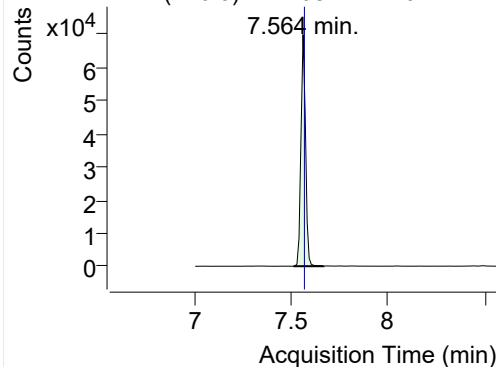


+ SIM (6.457-6.534 min, 14 scans) (**) 221208

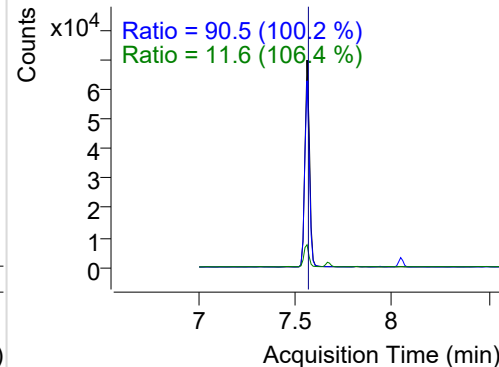


LSS-D10-Fluorene

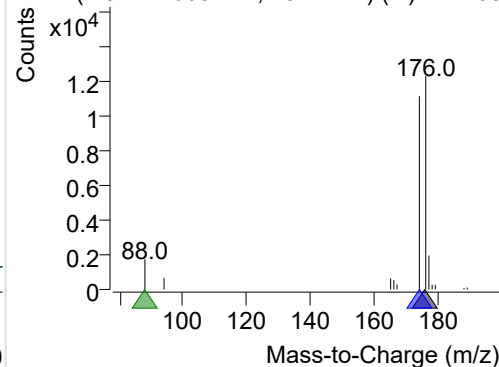
+ Selected Ion (176.0) 221208-PAHs-014.D



176.0, 174.0, 88.0

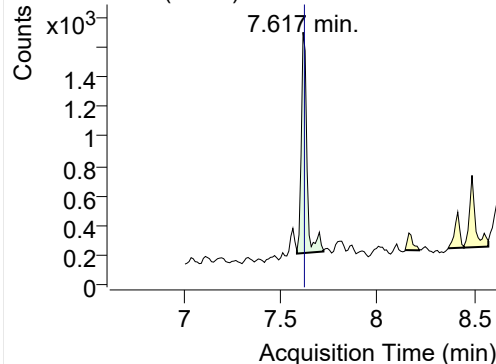


+ SIM (7.514-7.669 min, 15 scans) (**) 221208

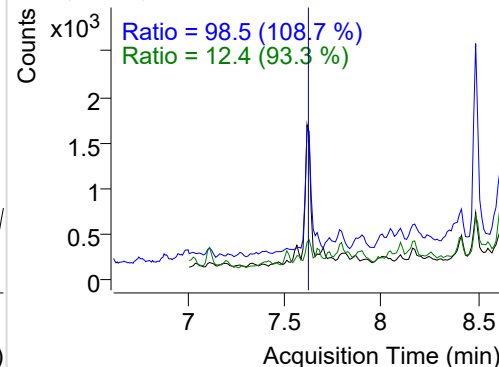


Fluorene

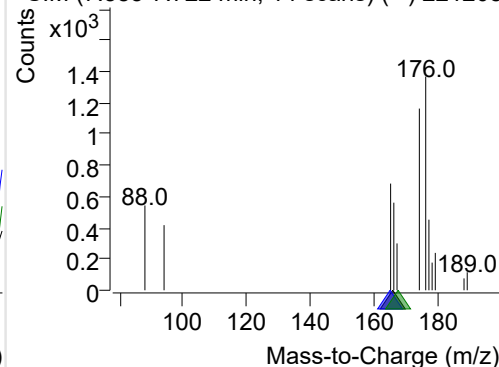
+ Selected Ion (166.0) 221208-PAHs-014.D



166.0, 165.0, 167.0

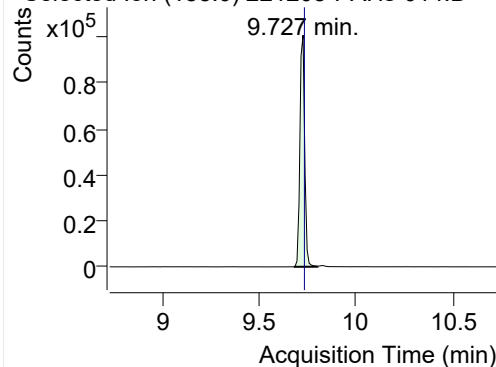


+ SIM (7.585-7.722 min, 14 scans) (**) 221208

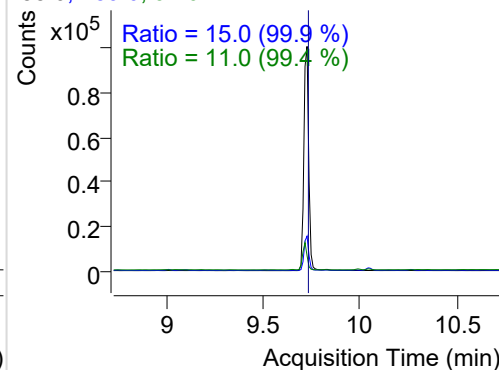


IS-D10-Phenanthrene

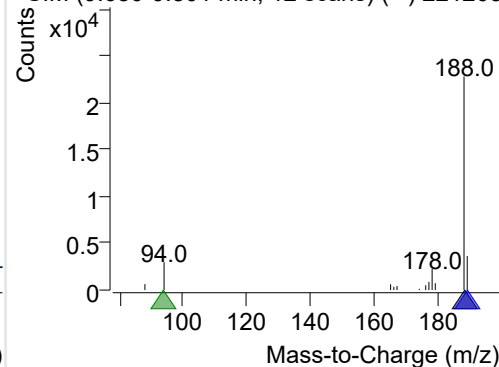
+ Selected Ion (188.0) 221208-PAHs-014.D



188.0, 189.0, 94.0

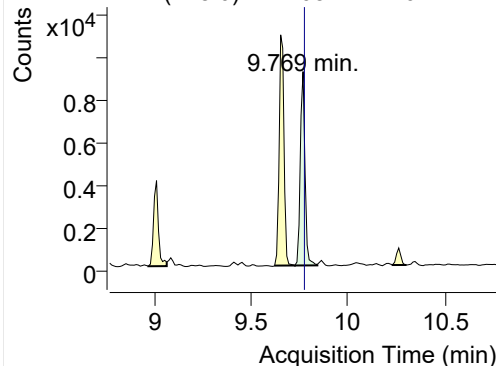


+ SIM (9.680-9.801 min, 12 scans) (**) 221208

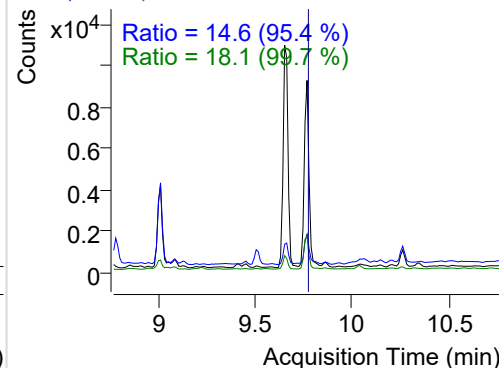


Phenanthrene

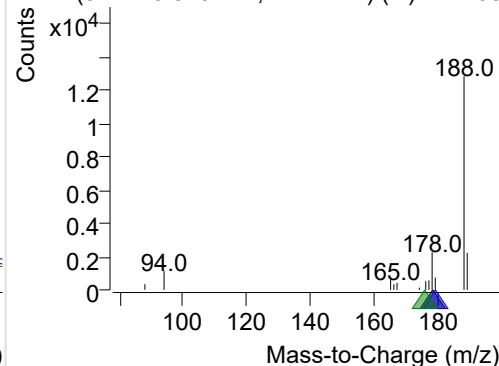
+ Selected Ion (178.0) 221208-PAHs-014.D



178.0, 179.0, 176.0

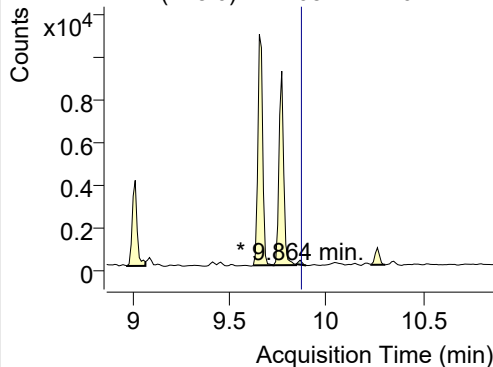


+ SIM (9.727-9.843 min, 12 scans) (**) 221208

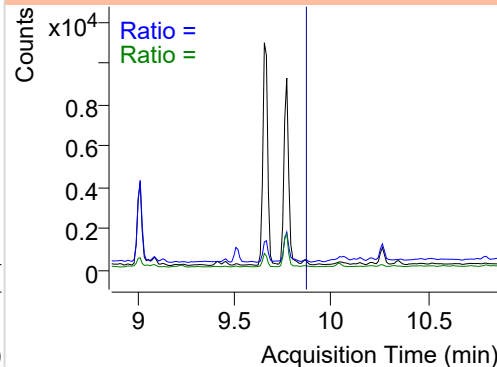


Anthracene

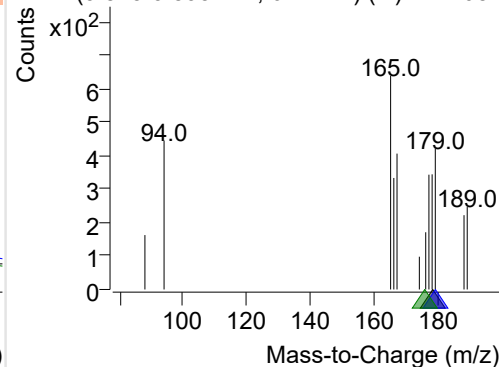
+ Selected Ion (178.0) 221208-PAHs-014.D



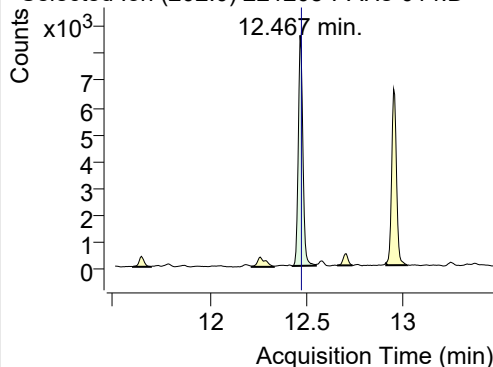
178.0, 179.0, 176.0



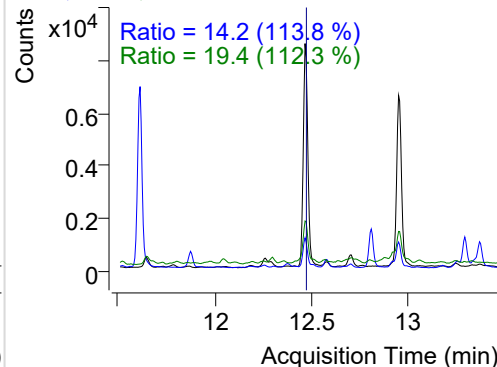
+ SIM (9.843-9.895 min, 6 scans) (**) 221208-I

**Fluoranthene**

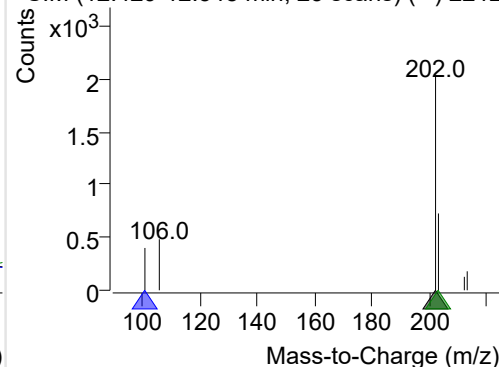
+ Selected Ion (202.0) 221208-PAHs-014.D



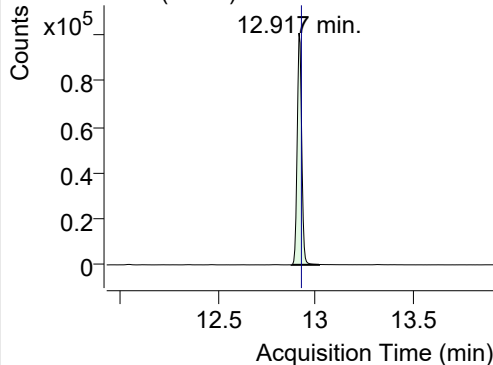
202.0, 101.0, 203.0



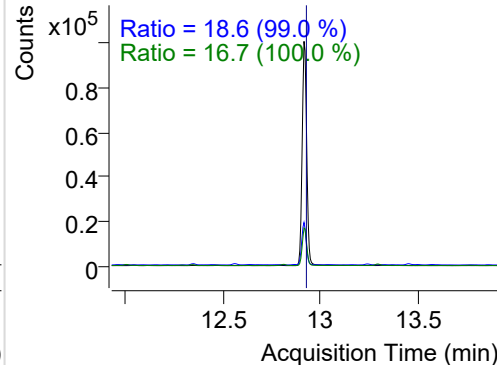
+ SIM (12.429-12.548 min, 23 scans) (**) 2212

**LSS-D10-Pyrene**

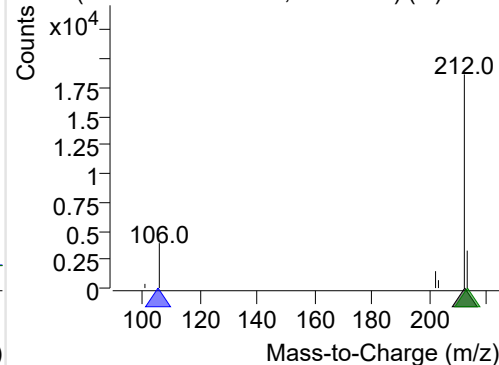
+ Selected Ion (212.0) 221208-PAHs-014.D



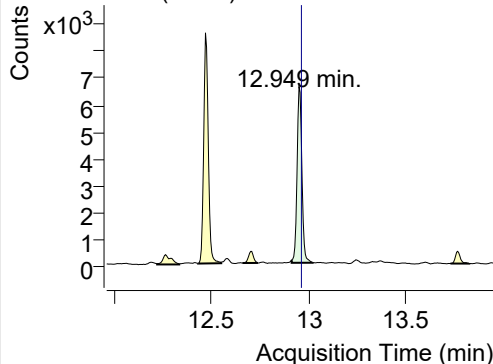
212.0, 106.0, 213.0



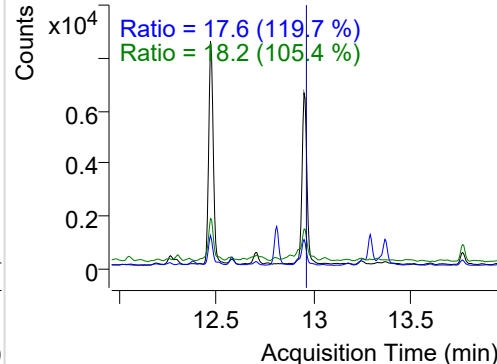
+ SIM (12.879-13.019 min, 27 scans) (**) 2212

**Pyrene**

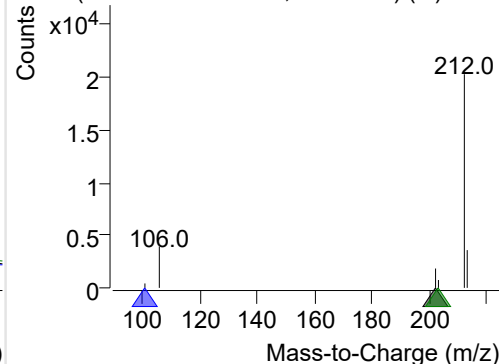
+ Selected Ion (202.0) 221208-PAHs-014.D



202.0, 101.0, 203.0

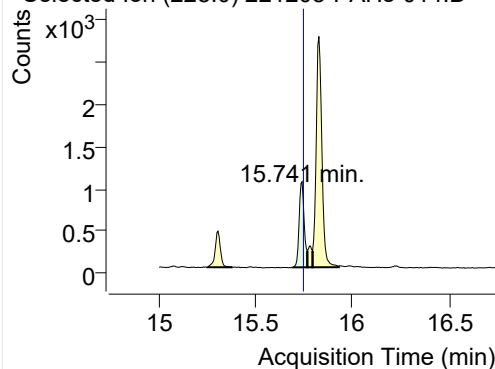


+ SIM (12.911-13.019 min, 21 scans) (**) 2212

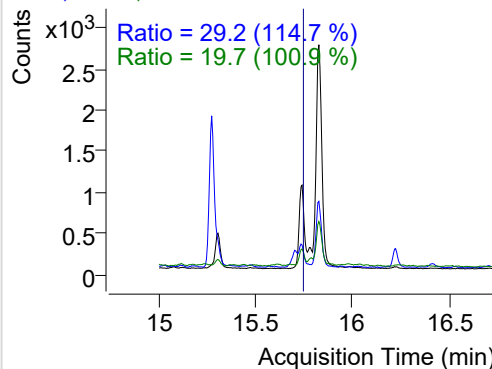


Benz(a)anthracene

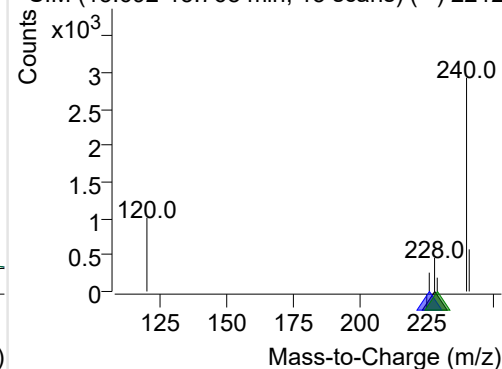
+ Selected Ion (228.0) 221208-PAHs-014.D



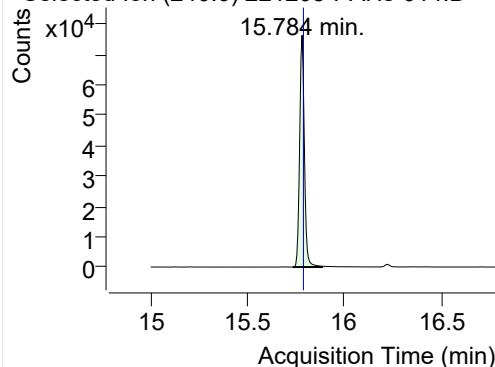
228.0, 226.0, 229.0



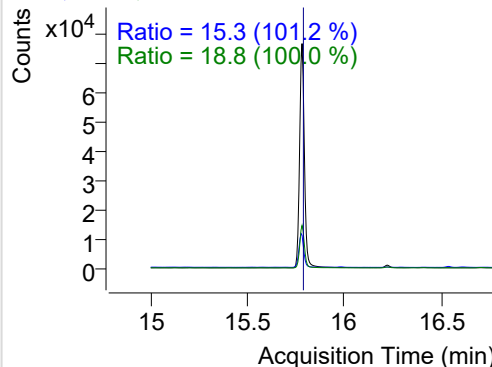
+ SIM (15.692-15.768 min, 15 scans) (**) 2212

**IS-D12-Chrysene**

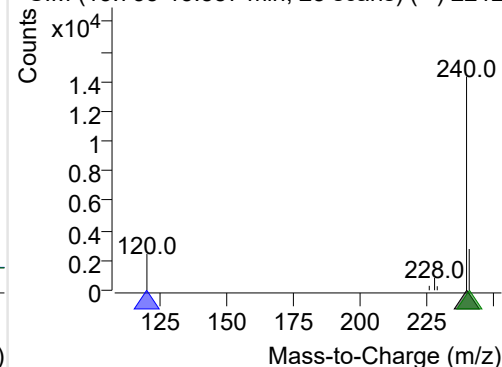
+ Selected Ion (240.0) 221208-PAHs-014.D



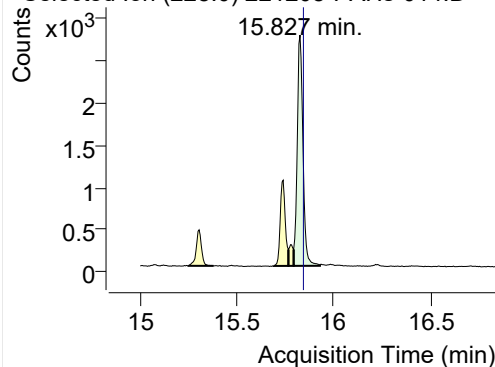
240.0, 120.0, 241.0



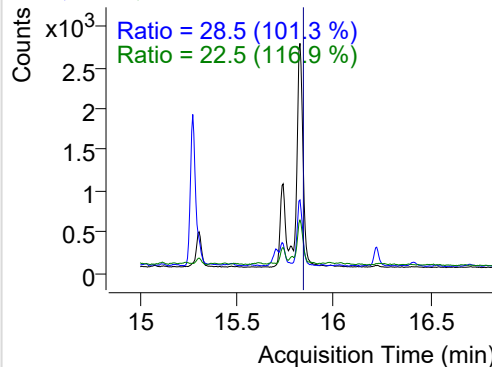
+ SIM (15.735-15.887 min, 28 scans) (**) 2212

**Chrysene**

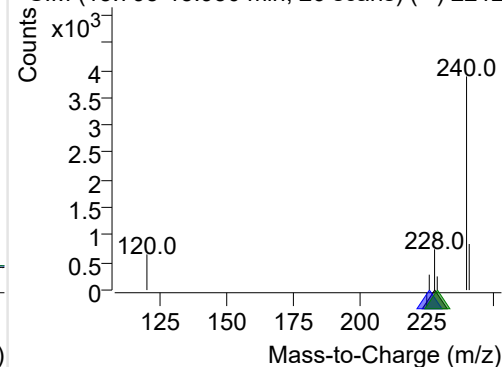
+ Selected Ion (228.0) 221208-PAHs-014.D



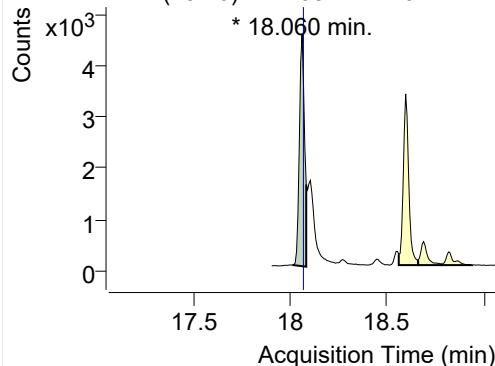
228.0, 226.0, 229.0



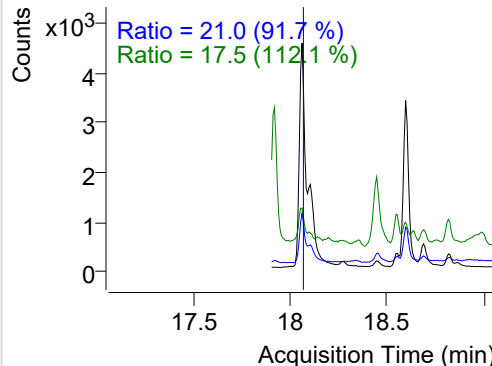
+ SIM (15.795-15.930 min, 26 scans) (**) 2212

**Benzo(b)fluoranthene**

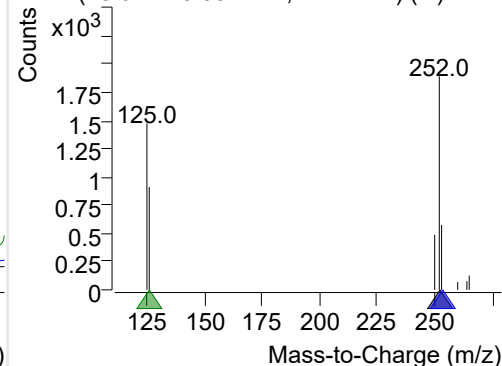
+ Selected Ion (252.0) 221208-PAHs-014.D



252.0, 253.0, 126.0

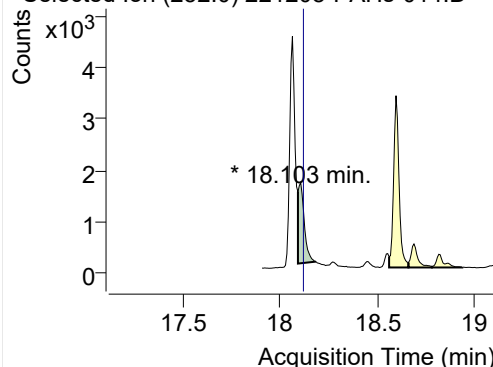


+ SIM (18.011-18.082 min, 11 scans) (**) 2212

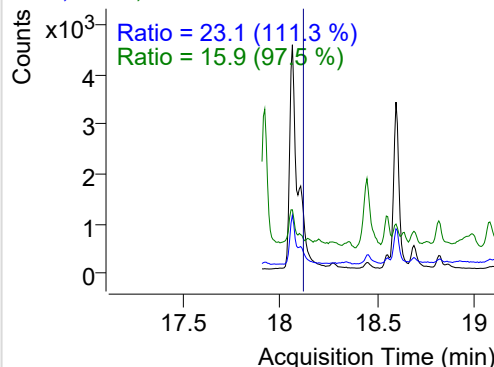


Benzo(k)fluoranthene

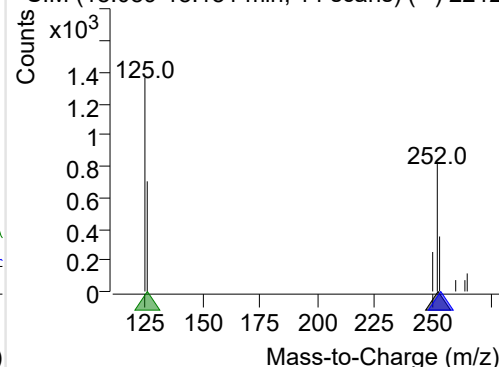
+ Selected Ion (252.0) 221208-PAHs-014.D



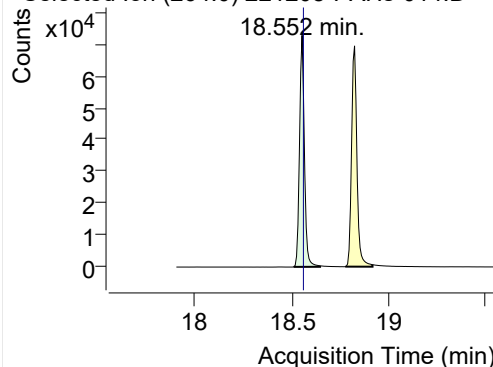
252.0, 253.0, 126.0



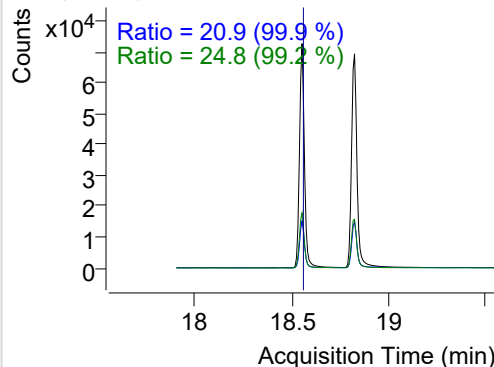
+ SIM (18.089-18.181 min, 14 scans) (**) 2212

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

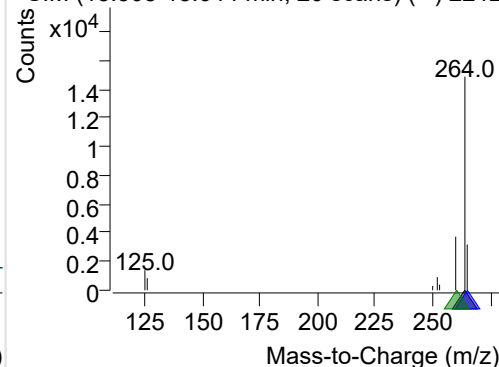
+ Selected Ion (264.0) 221208-PAHs-014.D



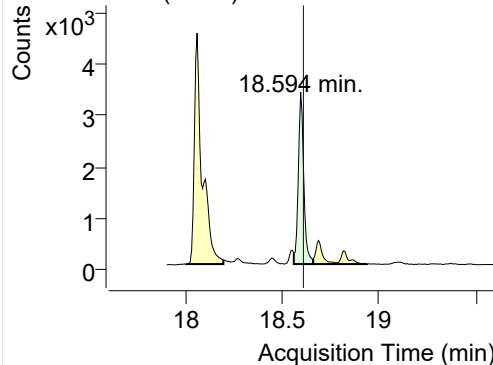
264.0, 265.0, 260.0



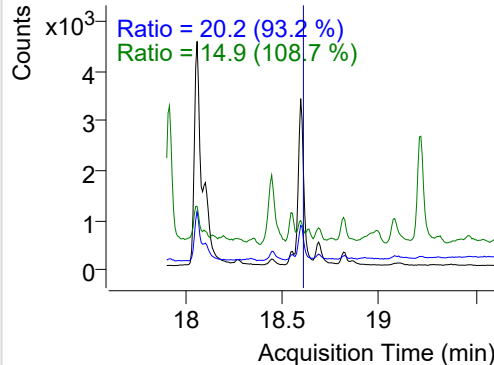
+ SIM (18.508-18.644 min, 20 scans) (**) 2212

**Benzo(e)pyrene**

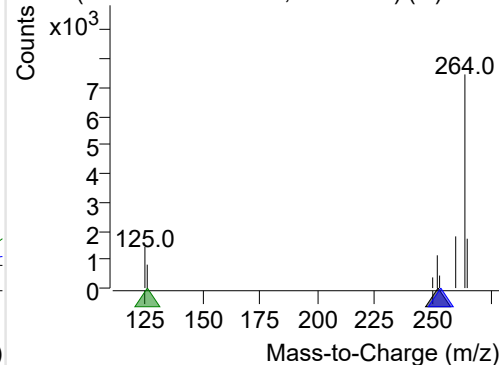
+ Selected Ion (252.0) 221208-PAHs-014.D



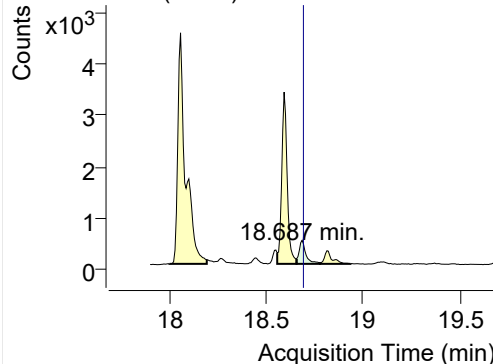
252.0, 253.0, 126.0



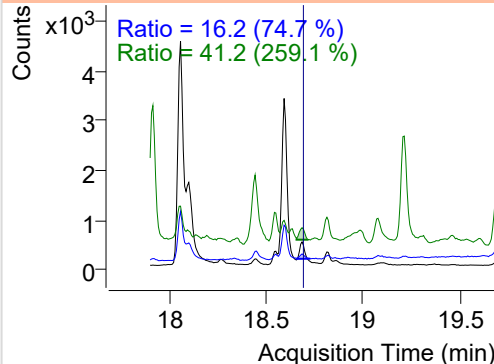
+ SIM (18.559-18.658 min, 15 scans) (**) 2212

**Benzo(a)pyrene**

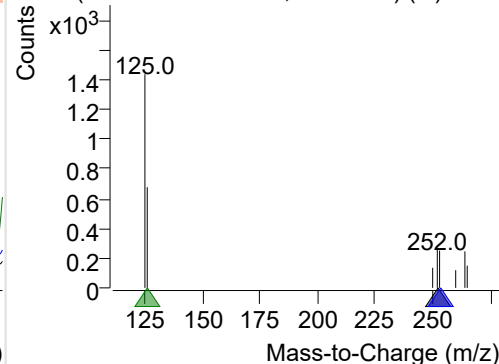
+ Selected Ion (252.0) 221208-PAHs-014.D



252.0, 253.0, 126.0

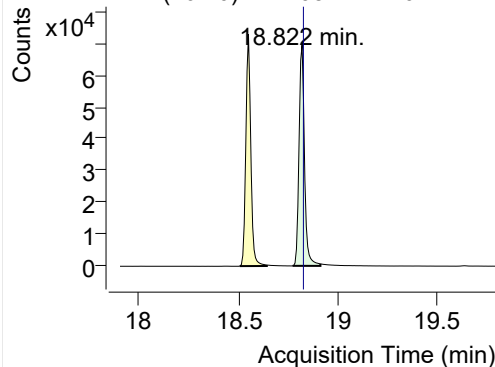


+ SIM (18.658-18.779 min, 18 scans) (**) 2212

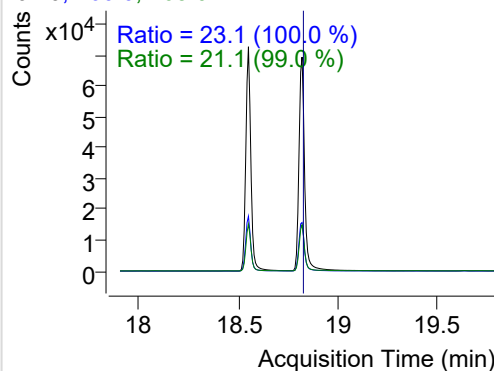


IS-D12-Perylene

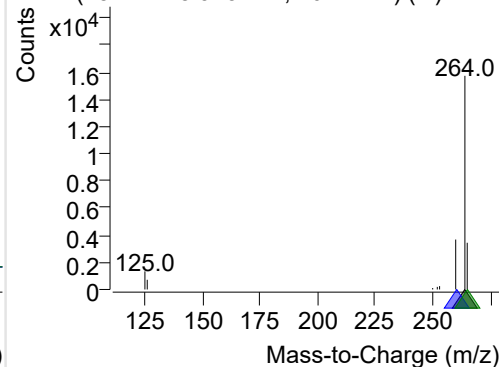
+ Selected Ion (264.0) 221208-PAHs-014.D



264.0, 260.0, 265.0

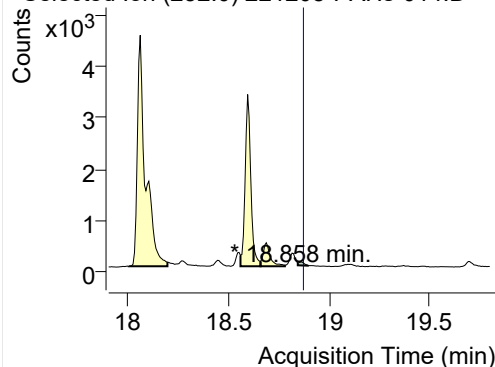


+ SIM (18.774-18.915 min, 20 scans) (**) 2212

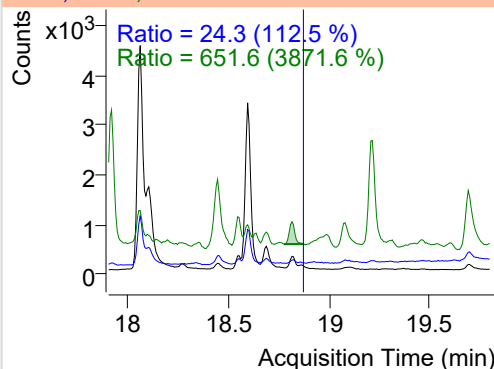


Perylene

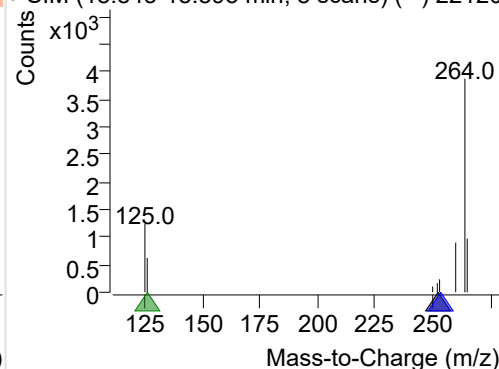
+ Selected Ion (252.0) 221208-PAHs-014.D



252.0, 253.0, 126.0

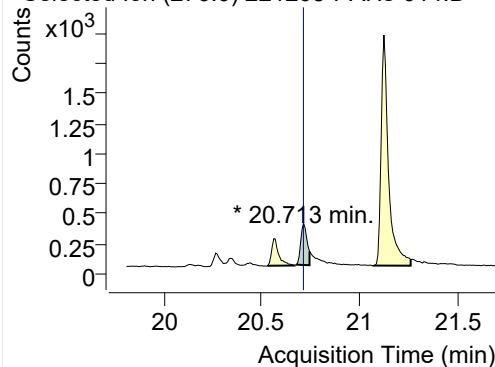


+ SIM (18.843-18.893 min, 8 scans) (**) 22120

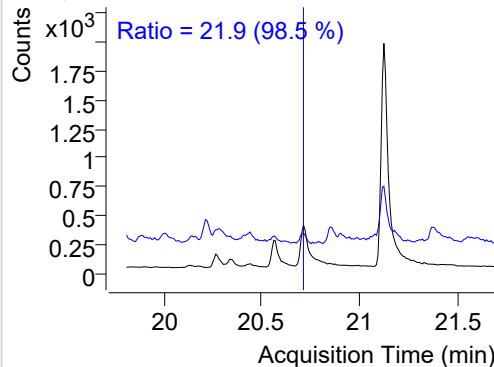


Indeno(1,2,3-c,d)pyrene

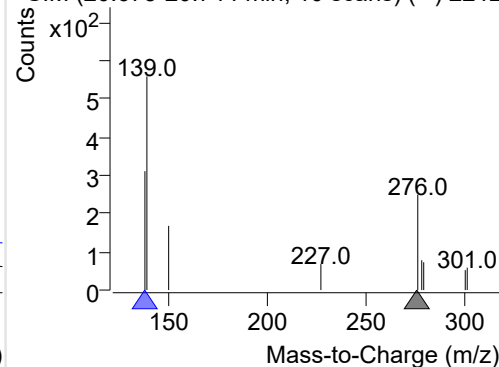
+ Selected Ion (276.0) 221208-PAHs-014.D



276.0, 138.0

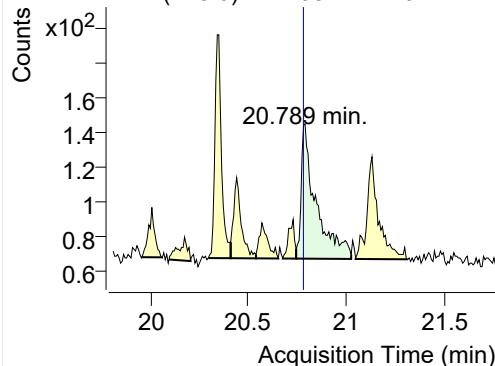


+ SIM (20.675-20.744 min, 10 scans) (**) 2212

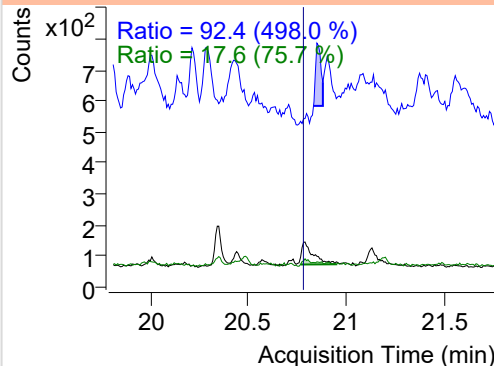


Dibenz(a,h)anthracene

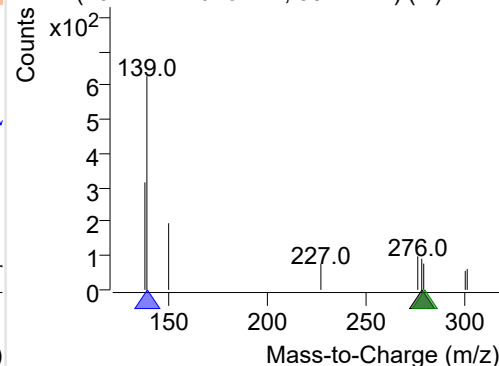
+ Selected Ion (278.0) 221208-PAHs-014.D



278.0, 139.0, 279.0

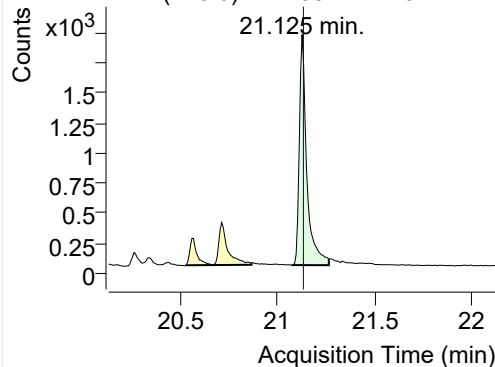


+ SIM (20.744-21.026 min, 38 scans) (**) 2212

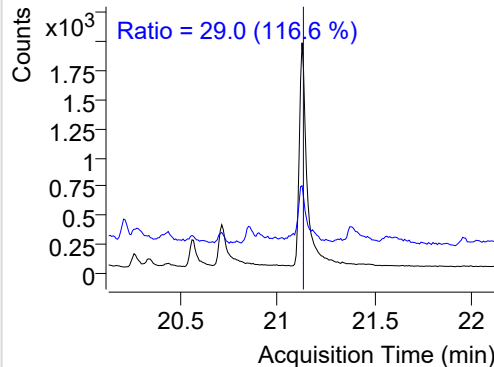


Benzo(g,h,i)perylene

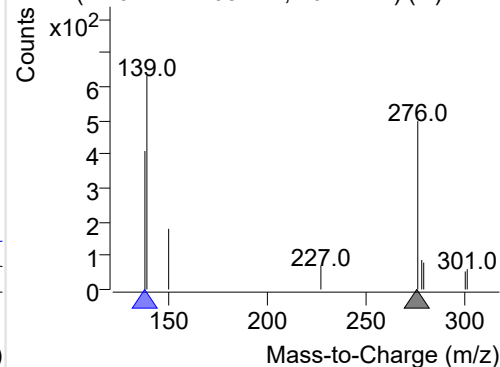
+ Selected Ion (276.0) 221208-PAHs-014.D



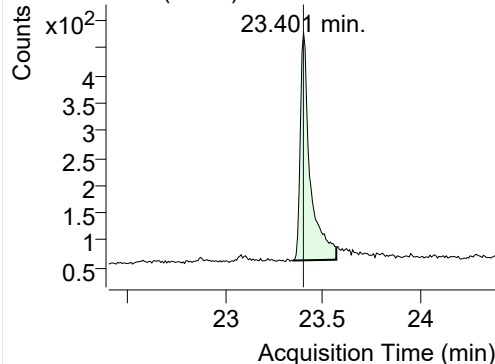
276.0, 138.0



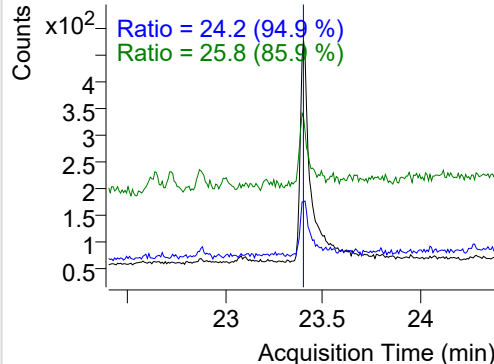
+ SIM (21.072-21.263 min, 26 scans) (**) 2212

**Coronene**

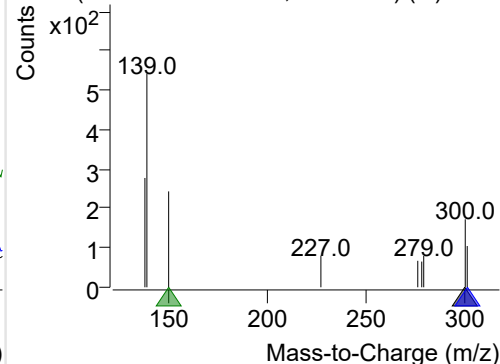
+ Selected Ion (300.0) 221208-PAHs-014.D



300.0, 301.0, 150.0



+ SIM (23.347-23.569 min, 30 scans) (**) 2212



Quantitative Analysis Sample Based Report

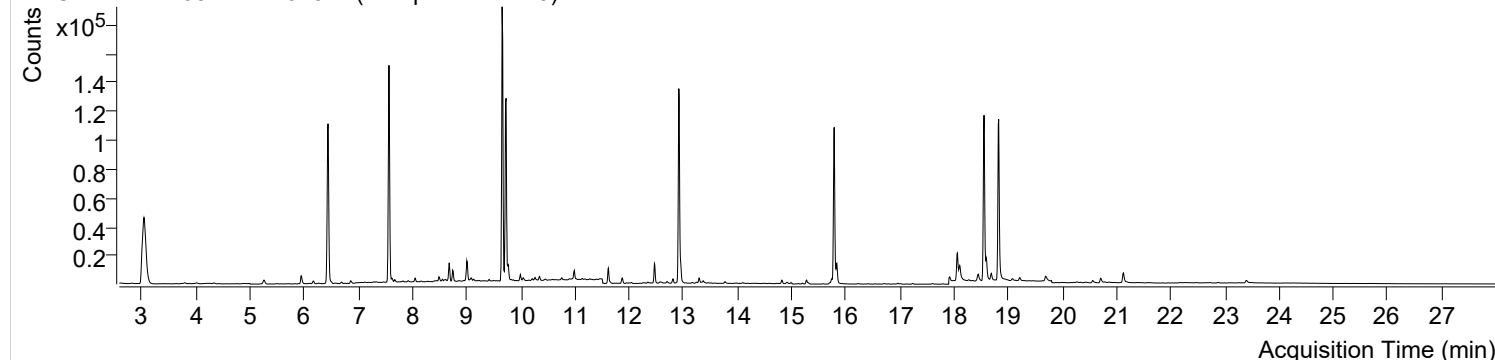


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 12:51:59	Data File	221208-PAHs-015.D
Type	Sample	Name	Sample-PM-1125
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

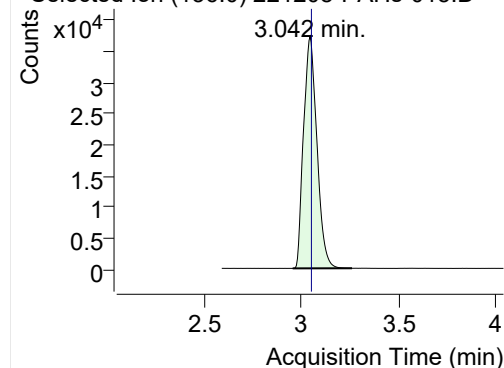
+ TIC SIM 221208-PAHs-015.D (Sample-PM-1125)



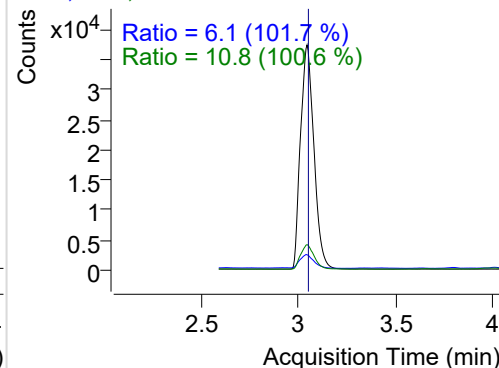
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	178384	37339.44	ND ng/ml	10.8
Naphthalene	3.063	128.0	10986	2270.56	ND ng/ml	12.8
Acenaphthylene	6.108	152.0	534	286.25	ND ng/ml	28.6
IS-D10-Acenaphthene	6.439	164.0	106303	53805.48	ND ng/ml	93.4
Acenaphthene	6.499	154.0	601	281.05	ND ng/ml	114.8
LSS-D10-Fluorene	7.564	176.0	113852	68575.21	ND ng/ml	90.0
Fluorene	7.627	166.0	1927	978.02	ND ng/ml	96.3
IS-D10-Phenanthrene	9.727	188.0	177881	103101.6	ND ng/ml	15.0
Phenanthrene	9.769	178.0	11268	6657.06	ND ng/ml	18.6
Anthracene	9.864	178.0	429	290.49	ND ng/ml	
Fluoranthene	12.467	202.0	16596	10298.51	ND ng/ml	20.0
LSS-D10-Pyrene	12.916	212.0	162215	98758.11	ND ng/ml	18.8
Pyrene	12.949	202.0	14221	8499.02	ND ng/ml	18.7
Benz(a)anthracene	15.741	228.0	5045	2448.70	ND ng/ml	24.3
IS-D12-Chrysene	15.784	240.0	137645	81160.40	ND ng/ml	18.8
Chrysene	15.833	228.0	17065	8758.22	ND ng/ml	28.9
Benzo(b)fluoranthene	18.060	252.0	21620	11501.57	ND ng/ml	21.3
Benzo(k)fluoranthene	18.103	252.0	16630	6280.29	ND ng/ml	21.7
SS-D12-Benzo(e)pyrene	18.552	264.0	141378	77940.26	ND ng/ml	24.7
Benzo(e)pyrene	18.594	252.0	14321	7454.07	ND ng/ml	20.7
Benzo(a)pyrene	18.687	252.0	5602	2450.46	ND ng/ml	19.1
IS-D12-Perylene	18.822	264.0	142898	76766.87	ND ng/ml	23.2
Perylene	18.865	252.0	1119	416.30	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.705	276.0	6144	2490.75	ND ng/ml	19.5
Dibenz(a,h)anthracene	20.782	278.0	800	256.59	ND ng/ml	19.8
Benzo(g,h,i)perylene	21.125	276.0	13438	5381.99	ND ng/ml	26.1
Coronene	23.393	300.0	3711	1087.62	ND ng/ml	27.7

IS-D8-Naphthalene

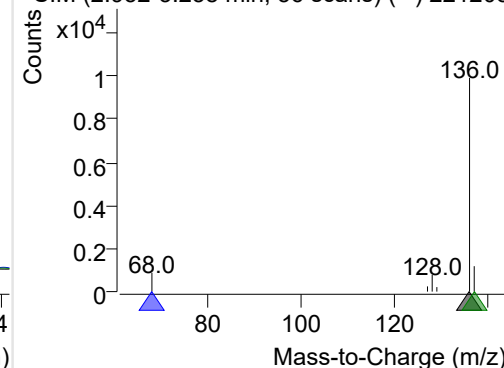
+ Selected Ion (136.0) 221208-PAHs-015.D



136.0, 68.0, 137.0

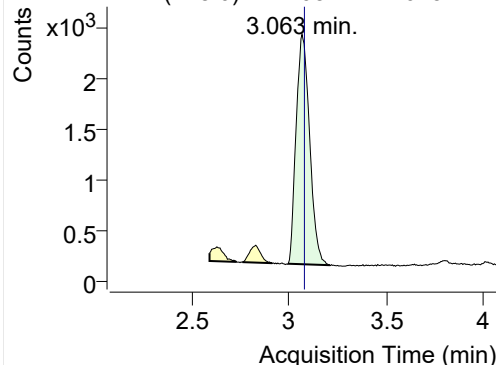


+ SIM (2.952-3.258 min, 56 scans) (**) 221208

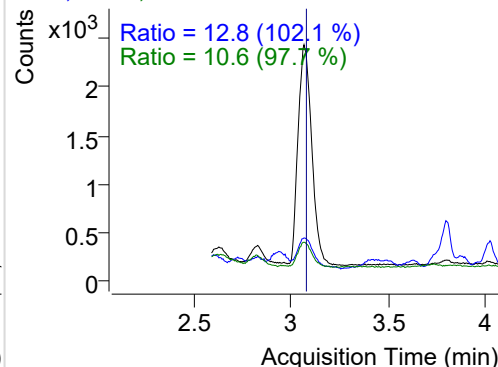


Naphthalene

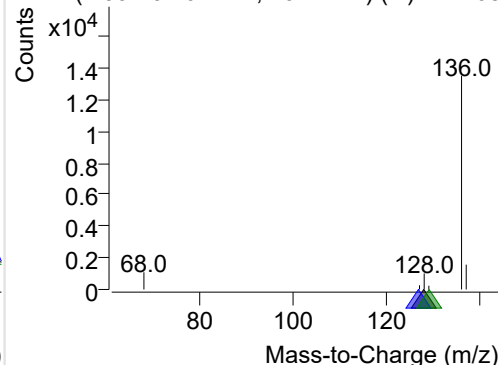
+ Selected Ion (128.0) 221208-PAHs-015.D



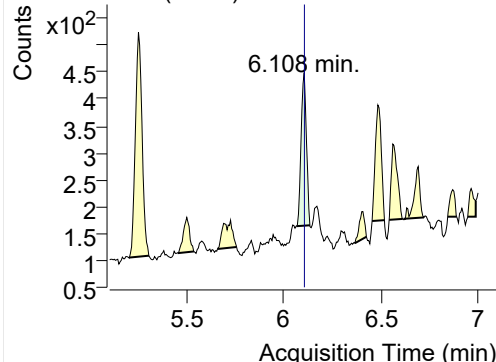
128.0, 127.0, 129.0



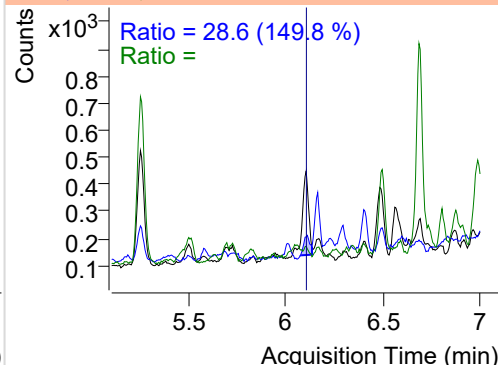
+ SIM (2.991-3.207 min, 40 scans) (**) 221208

**Acenaphthylene**

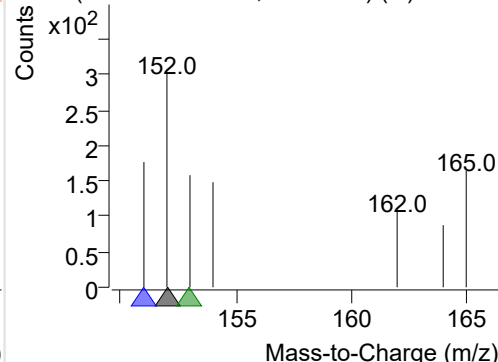
+ Selected Ion (152.0) 221208-PAHs-015.D



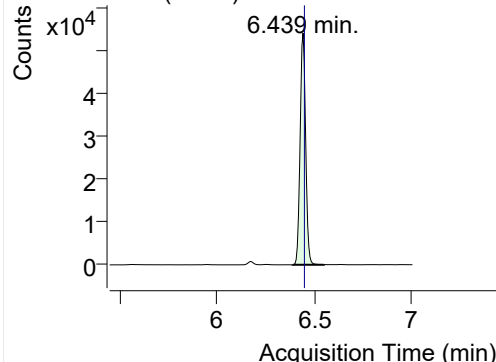
152.0, 151.0, 153.0



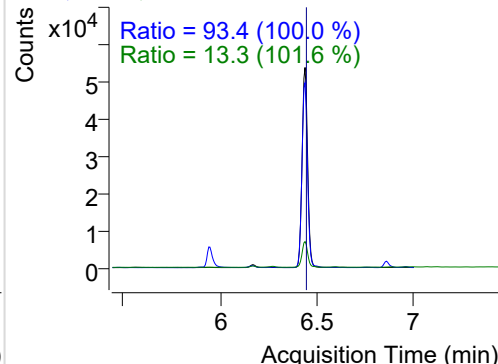
+ SIM (6.072-6.137 min, 11 scans) (**) 221208

**IS-D10-Acenaphthene**

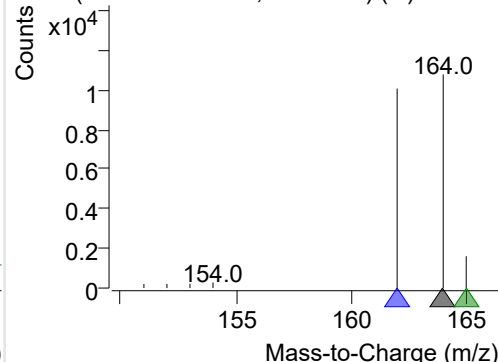
+ Selected Ion (164.0) 221208-PAHs-015.D



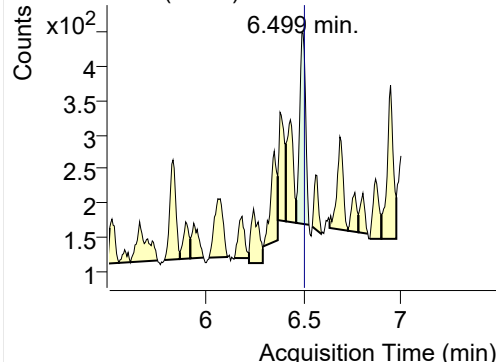
164.0, 162.0, 165.0



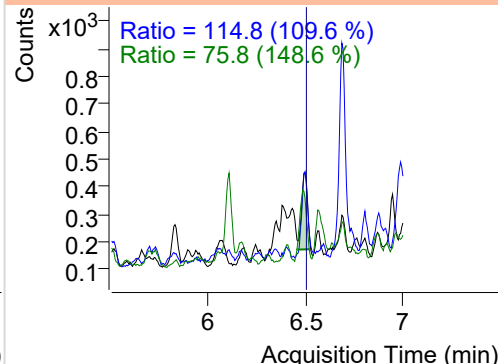
+ SIM (6.386-6.546 min, 28 scans) (**) 221208

**Acenaphthene**

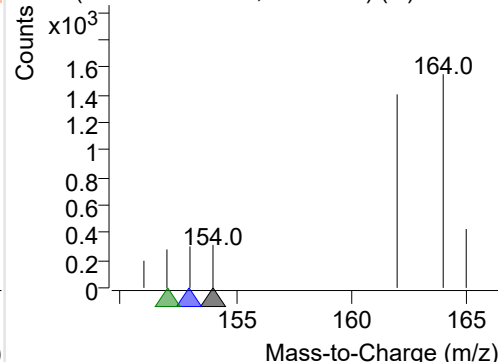
+ Selected Ion (154.0) 221208-PAHs-015.D



154.0, 153.0, 152.0

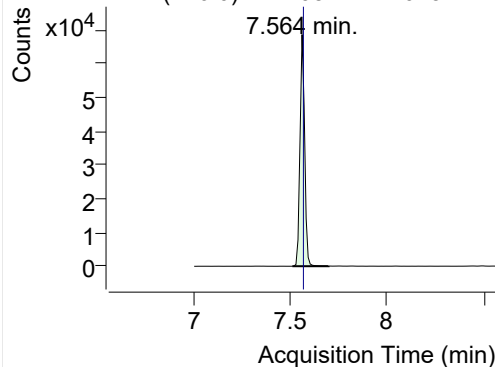


+ SIM (6.463-6.529 min, 12 scans) (**) 221208

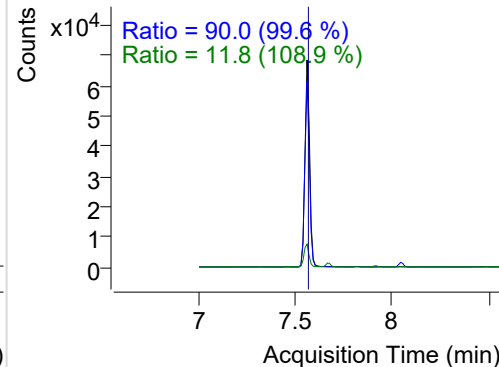


LSS-D10-Fluorene

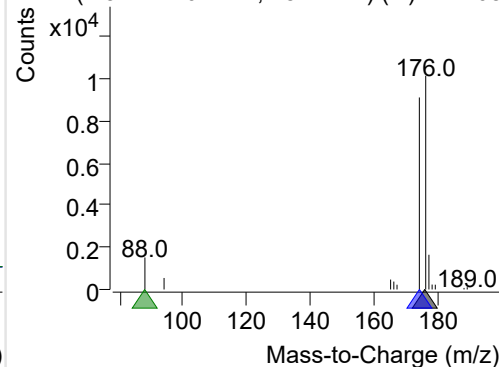
+ Selected Ion (176.0) 221208-PAHs-015.D



176.0, 174.0, 88.0

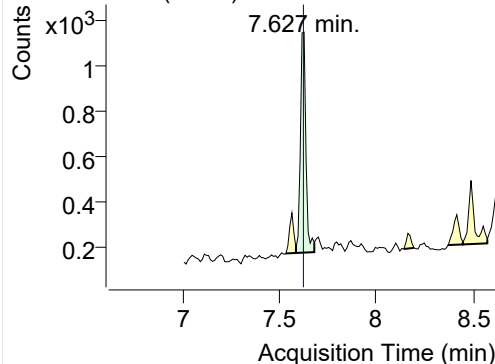


+ SIM (7.514-7.701 min, 18 scans) (**) 221208

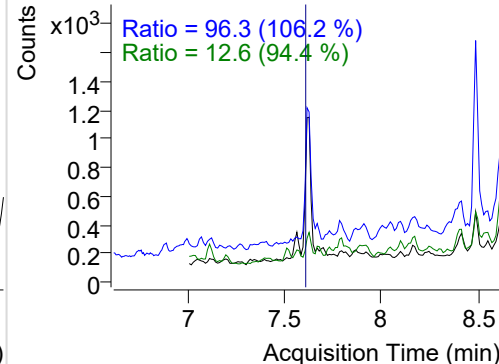


Fluorene

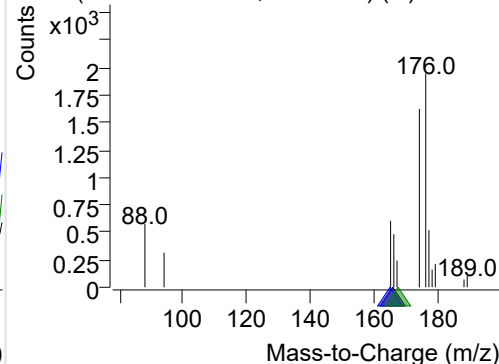
+ Selected Ion (166.0) 221208-PAHs-015.D



166.0, 165.0, 167.0

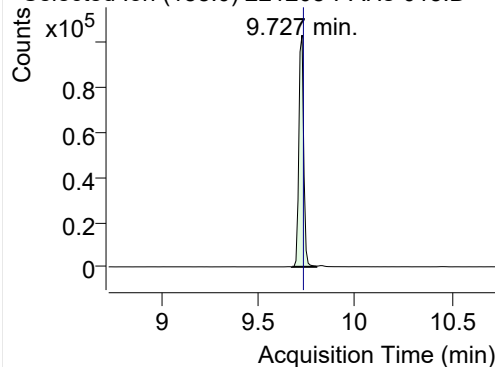


+ SIM (7.585-7.680 min, 10 scans) (**) 221208

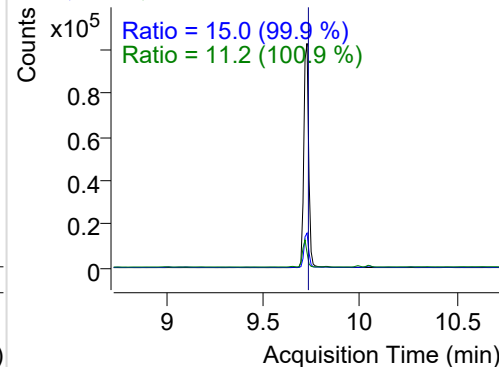


IS-D10-Phenanthrene

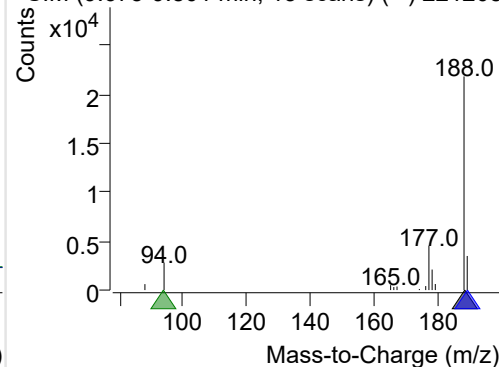
+ Selected Ion (188.0) 221208-PAHs-015.D



188.0, 189.0, 94.0

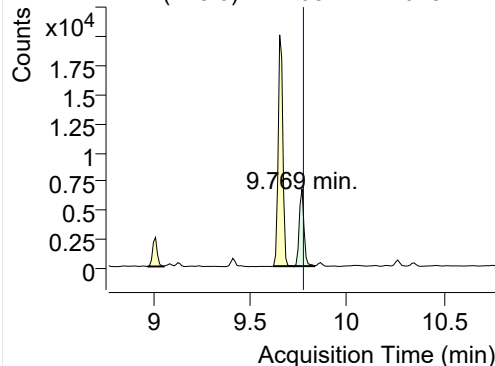


+ SIM (9.675-9.801 min, 13 scans) (**) 221208

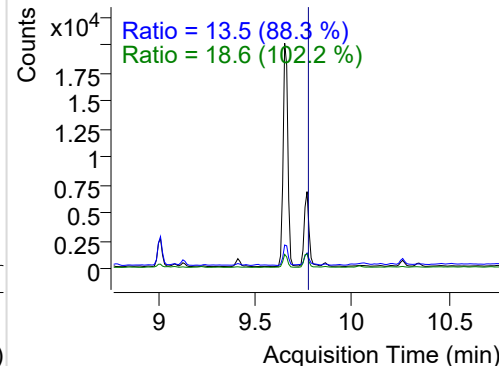


Phenanthrene

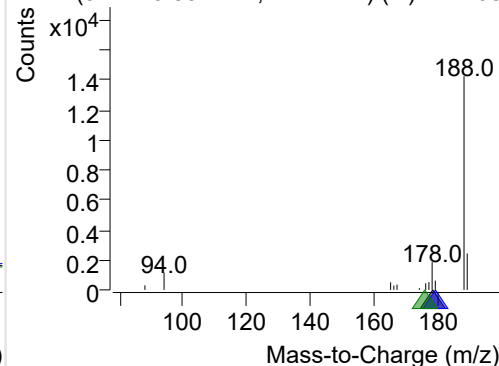
+ Selected Ion (178.0) 221208-PAHs-015.D



178.0, 179.0, 176.0

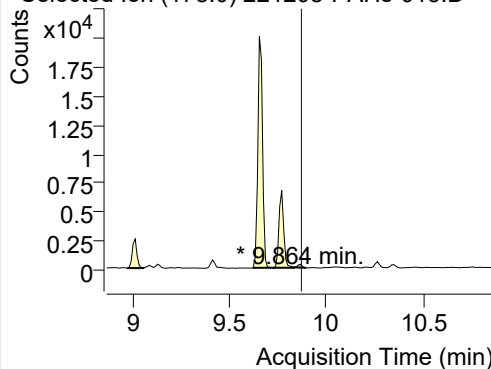


+ SIM (9.727-9.832 min, 11 scans) (**) 221208

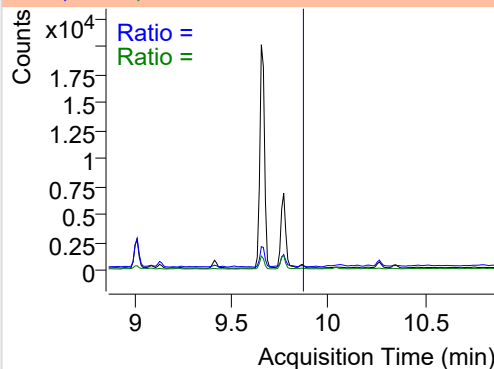


Anthracene

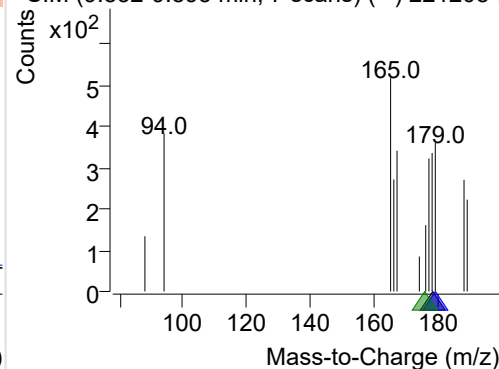
+ Selected Ion (178.0) 221208-PAHs-015.D



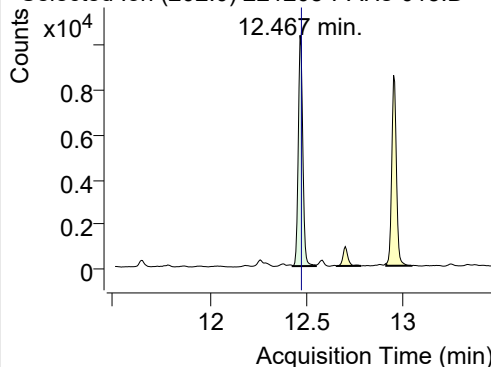
178.0, 179.0, 176.0



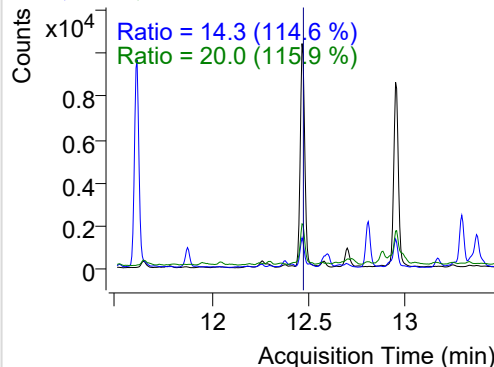
+ SIM (9.832-9.895 min, 7 scans) (**) 221208-I

**Fluoranthene**

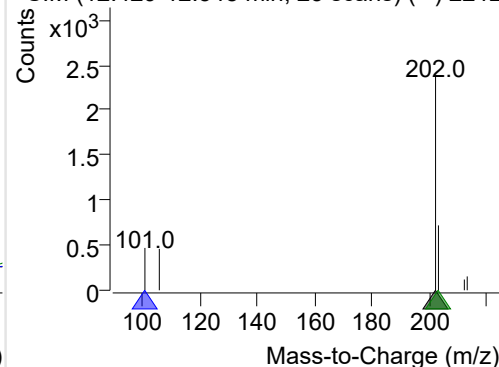
+ Selected Ion (202.0) 221208-PAHs-015.D



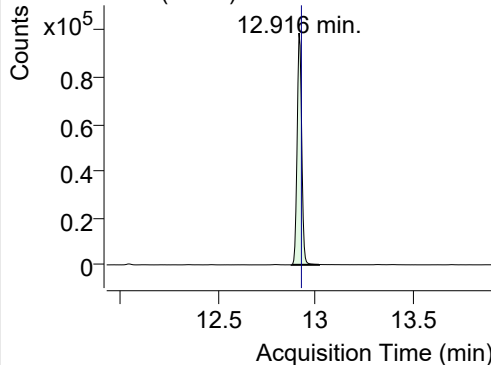
202.0, 101.0, 203.0



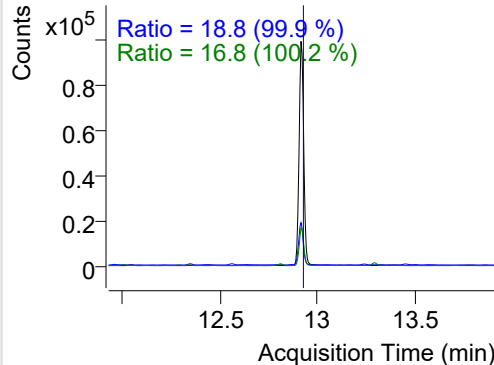
+ SIM (12.429-12.548 min, 23 scans) (**) 2212

**LSS-D10-Pyrene**

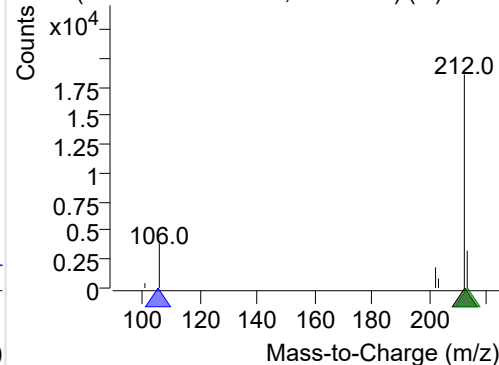
+ Selected Ion (212.0) 221208-PAHs-015.D



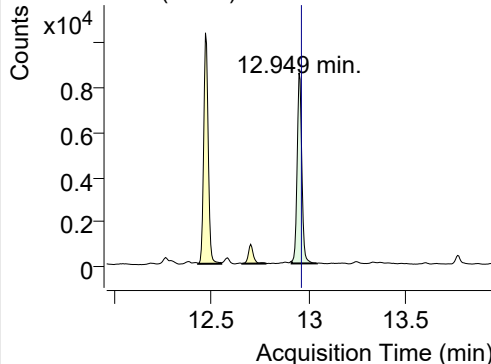
212.0, 106.0, 213.0



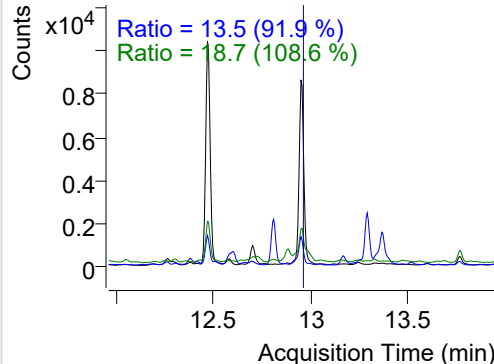
+ SIM (12.879-13.019 min, 27 scans) (**) 2212

**Pyrene**

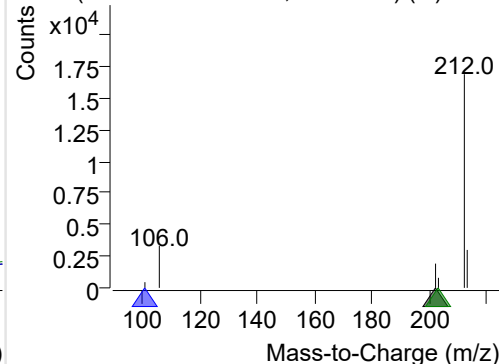
+ Selected Ion (202.0) 221208-PAHs-015.D



202.0, 101.0, 203.0

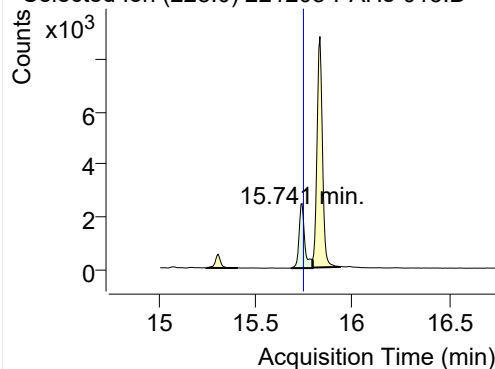


+ SIM (12.911-13.041 min, 25 scans) (**) 2212

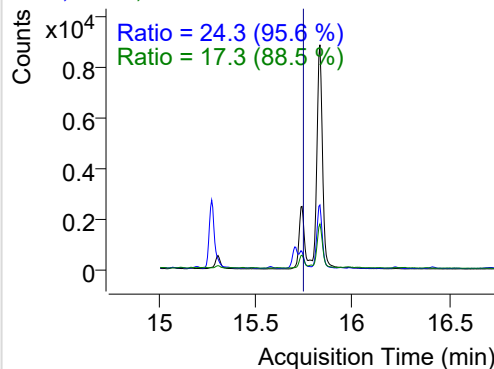


Benz(a)anthracene

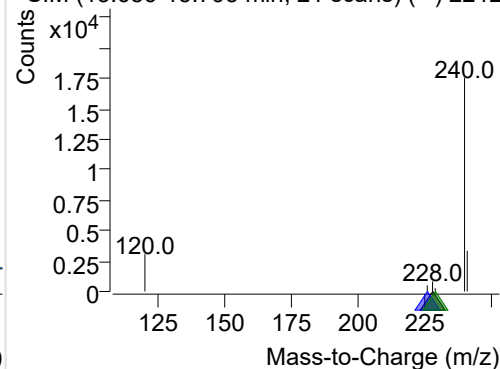
+ Selected Ion (228.0) 221208-PAHs-015.D



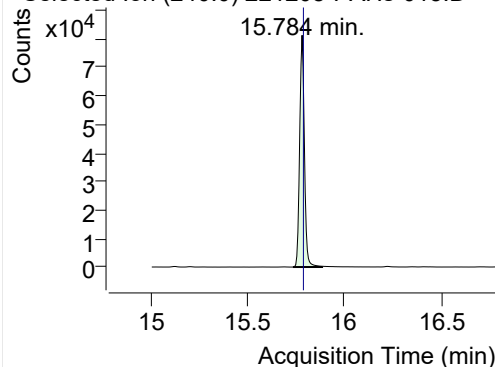
228.0, 226.0, 229.0



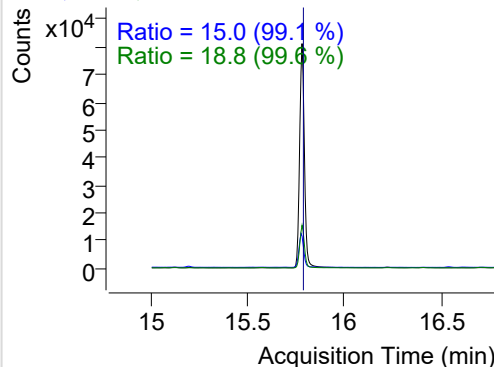
+ SIM (15.686-15.795 min, 21 scans) (**) 2212

**IS-D12-Chrysene**

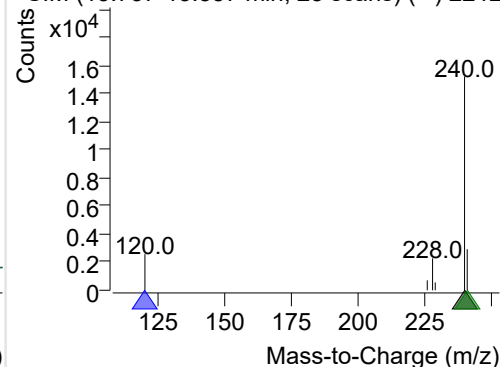
+ Selected Ion (240.0) 221208-PAHs-015.D



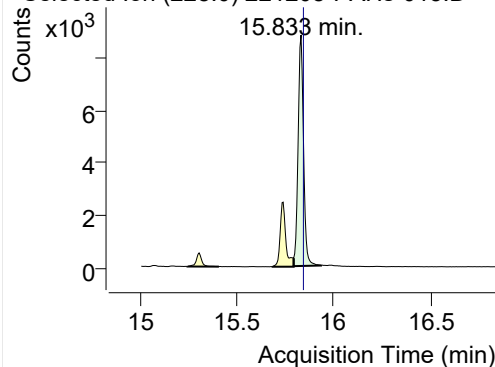
240.0, 120.0, 241.0



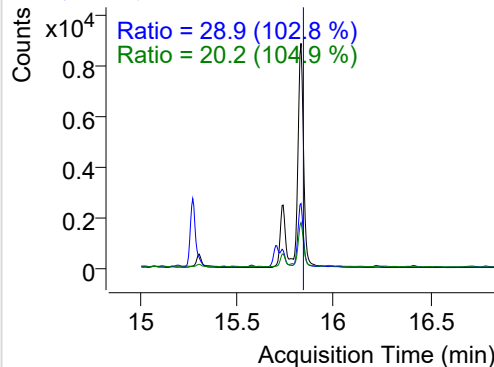
+ SIM (15.737-15.887 min, 28 scans) (**) 2212

**Chrysene**

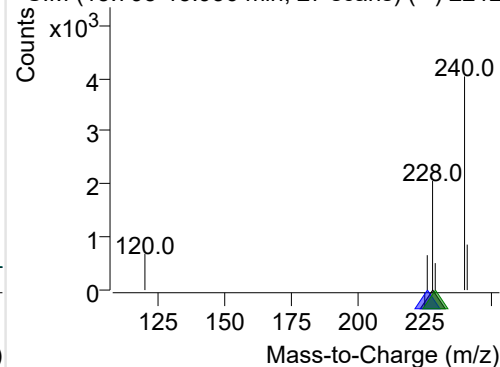
+ Selected Ion (228.0) 221208-PAHs-015.D



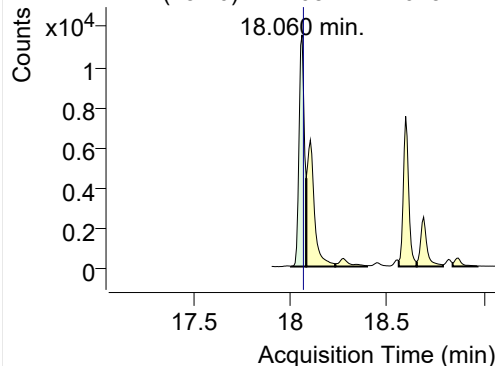
228.0, 226.0, 229.0



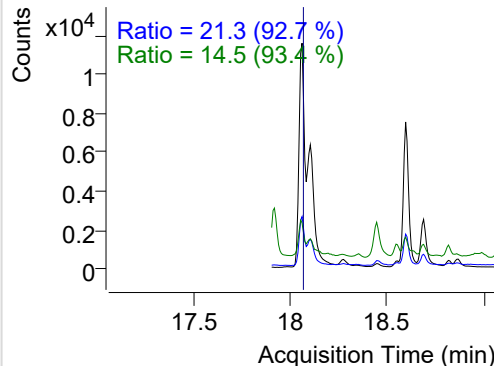
+ SIM (15.795-15.936 min, 27 scans) (**) 2212

**Benzo(b)fluoranthene**

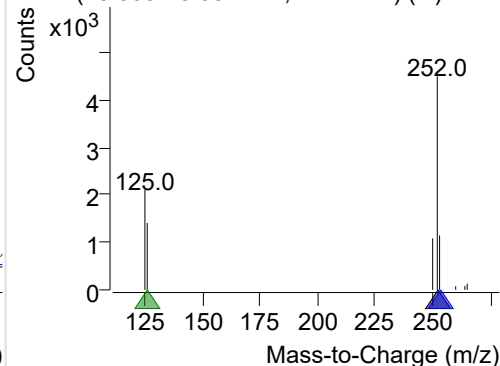
+ Selected Ion (252.0) 221208-PAHs-015.D



252.0, 253.0, 126.0

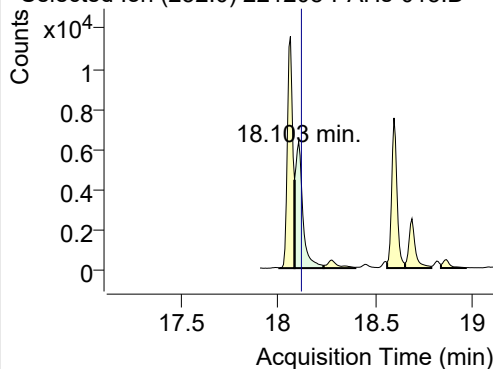


+ SIM (18.003-18.082 min, 12 scans) (**) 2212

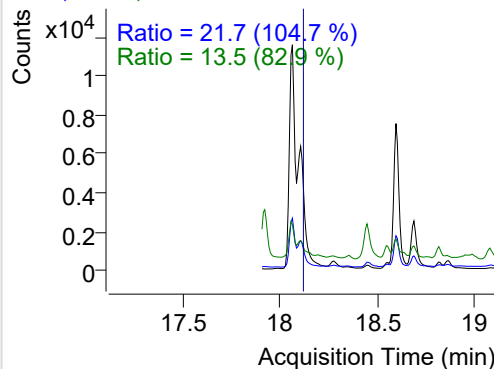


Benzo(k)fluoranthene

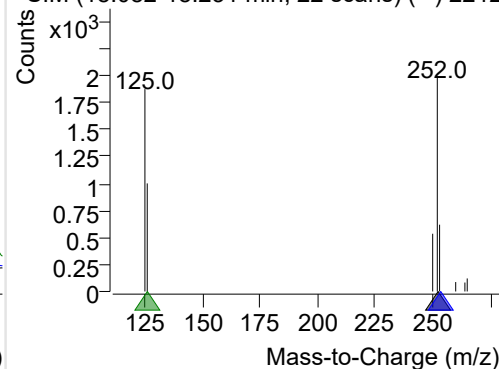
+ Selected Ion (252.0) 221208-PAHs-015.D



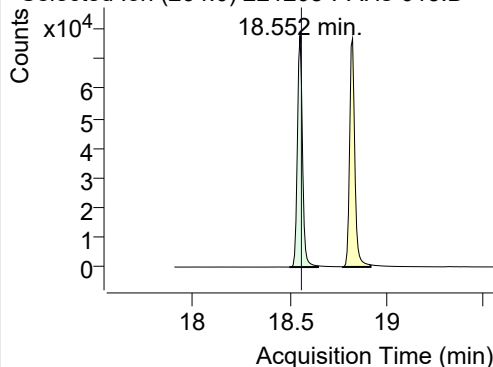
252.0, 253.0, 126.0



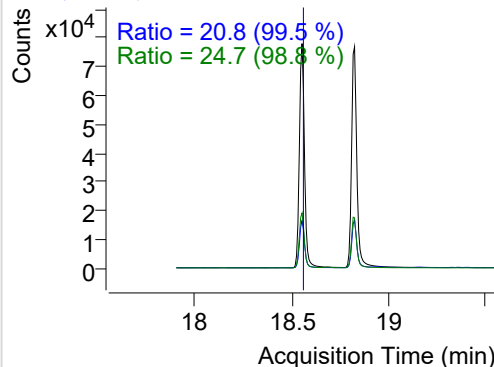
+ SIM (18.082-18.231 min, 22 scans) (**) 2212

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

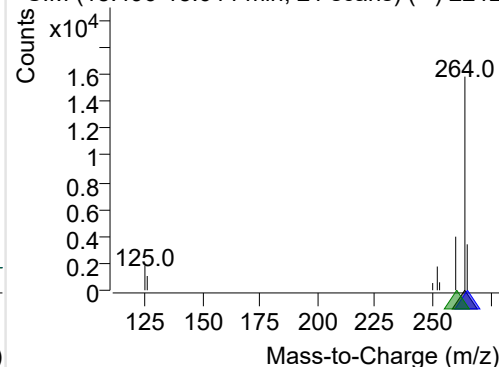
+ Selected Ion (264.0) 221208-PAHs-015.D



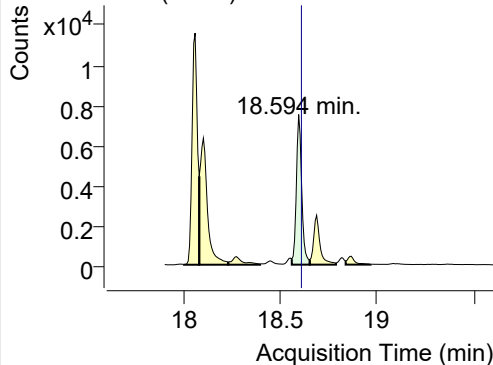
264.0, 265.0, 260.0



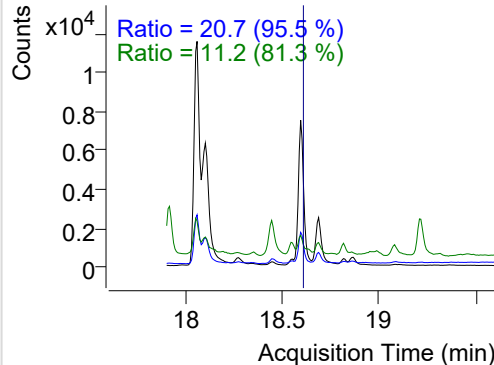
+ SIM (18.496-18.644 min, 21 scans) (**) 2212

**Benzo(e)pyrene**

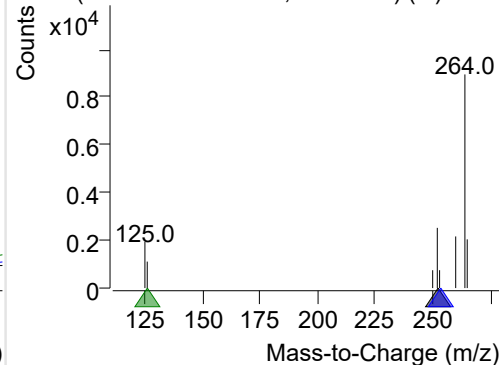
+ Selected Ion (252.0) 221208-PAHs-015.D



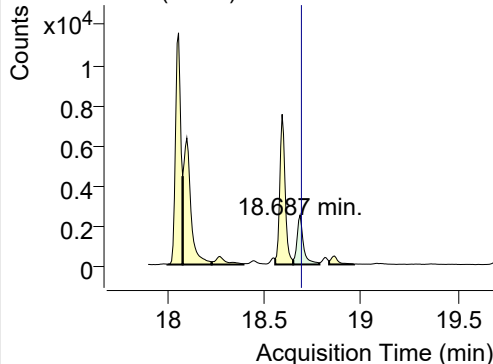
252.0, 253.0, 126.0



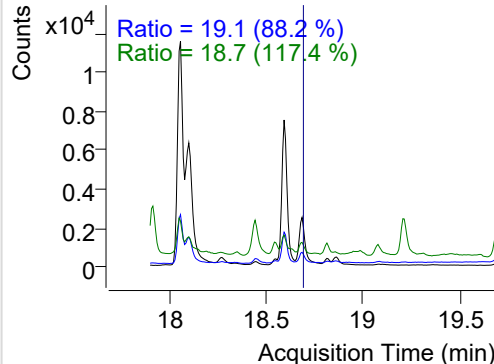
+ SIM (18.559-18.651 min, 14 scans) (**) 2212

**Benzo(a)pyrene**

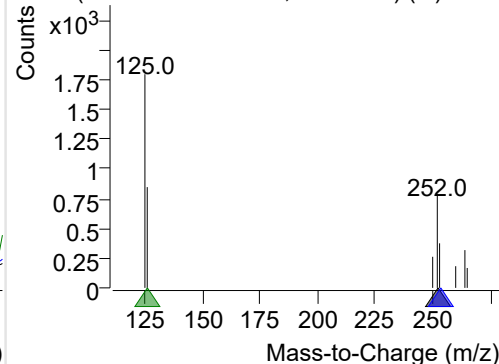
+ Selected Ion (252.0) 221208-PAHs-015.D



252.0, 253.0, 126.0

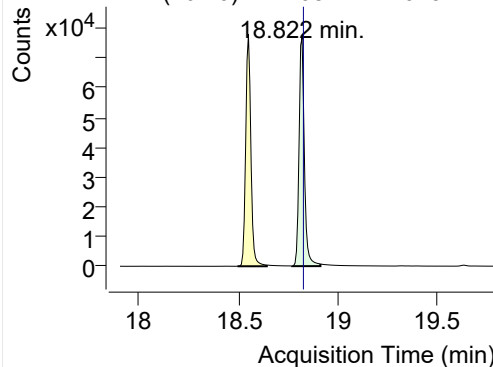


+ SIM (18.651-18.786 min, 20 scans) (**) 2212

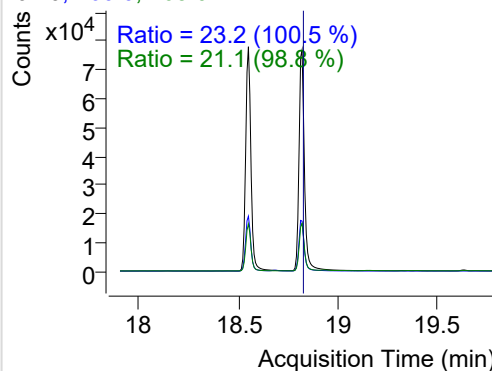


IS-D12-Perylene

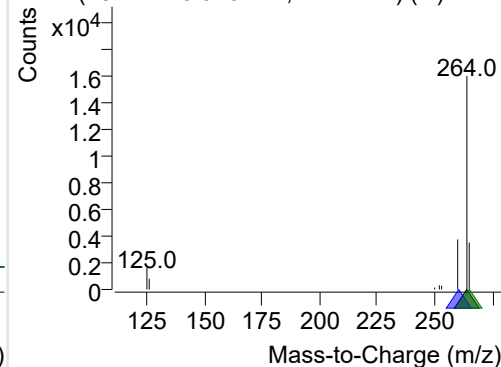
+ Selected Ion (264.0) 221208-PAHs-015.D



264.0, 260.0, 265.0

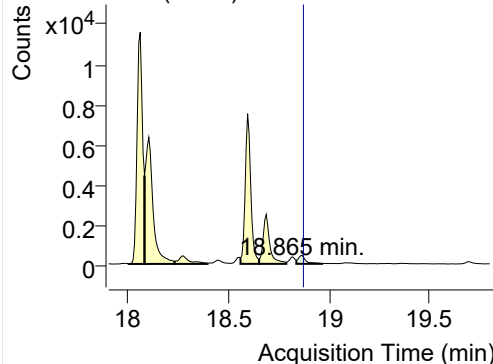


+ SIM (18.772-18.915 min, 21 scans) (**) 2212

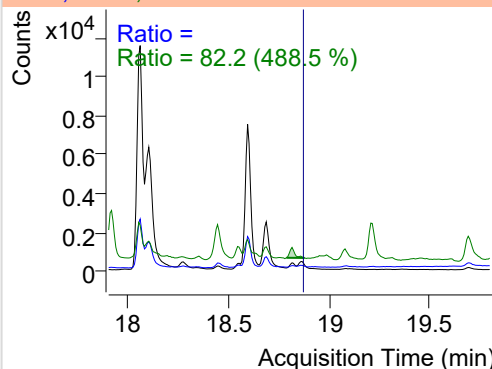


Perylene

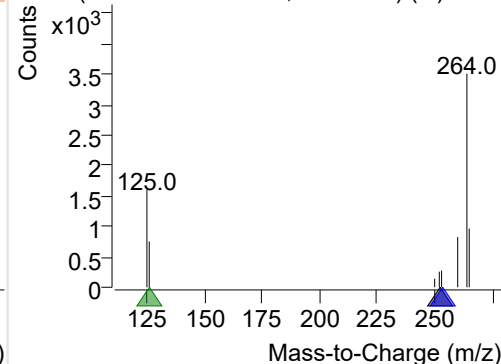
+ Selected Ion (252.0) 221208-PAHs-015.D



252.0, 253.0, 126.0

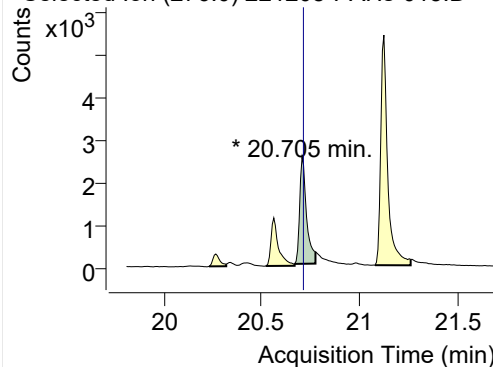


+ SIM (18.836-18.964 min, 19 scans) (**) 2212

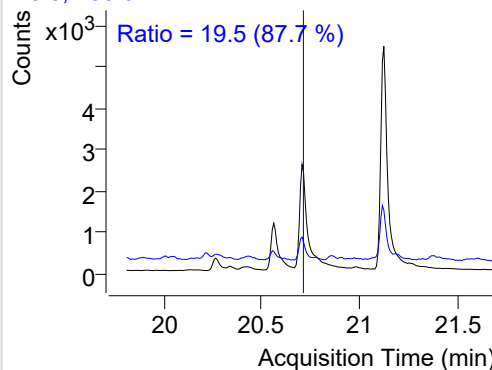


Indeno(1,2,3-c,d)pyrene

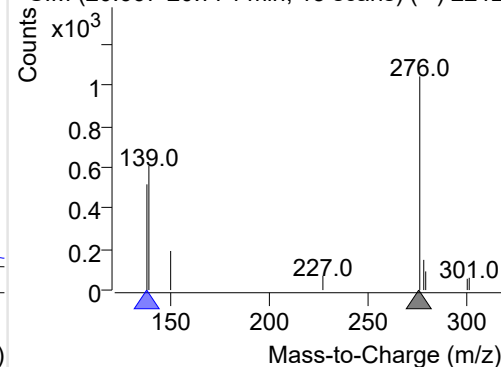
+ Selected Ion (276.0) 221208-PAHs-015.D



276.0, 138.0

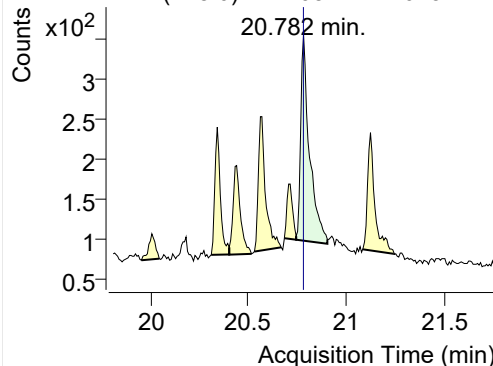


+ SIM (20.667-20.774 min, 15 scans) (**) 2212

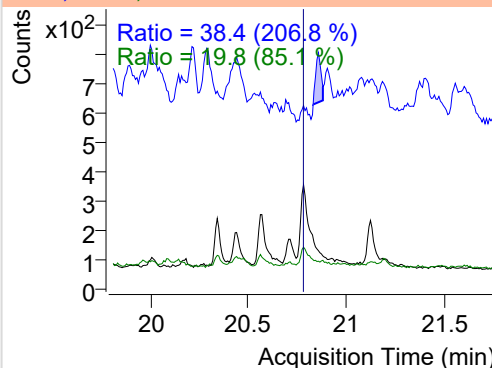


Dibenz(a,h)anthracene

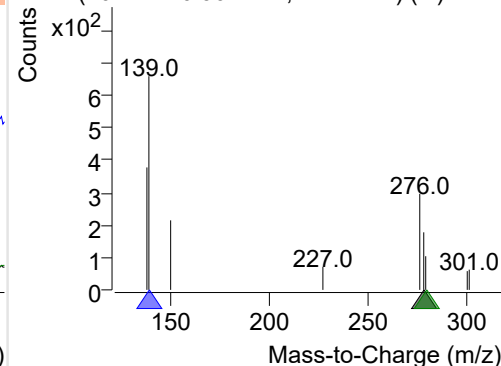
+ Selected Ion (278.0) 221208-PAHs-015.D



278.0, 139.0, 279.0

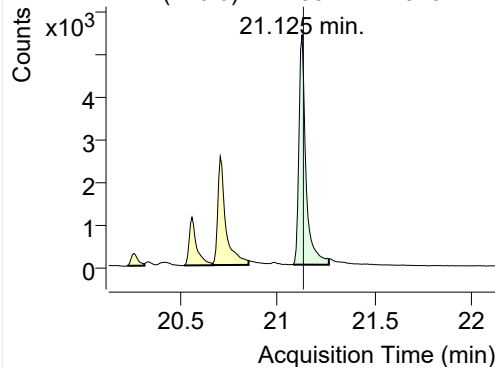


+ SIM (20.744-20.904 min, 22 scans) (**) 2212

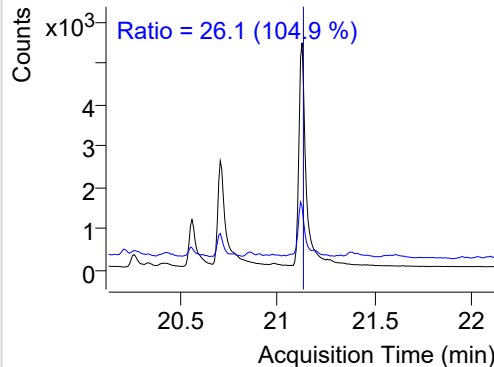


Benzo(g,h,i)perylene

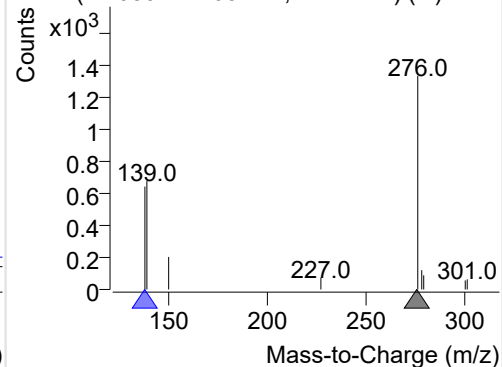
+ Selected Ion (276.0) 221208-PAHs-015.D



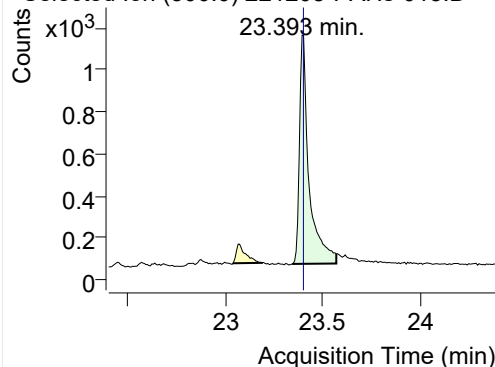
276.0, 138.0



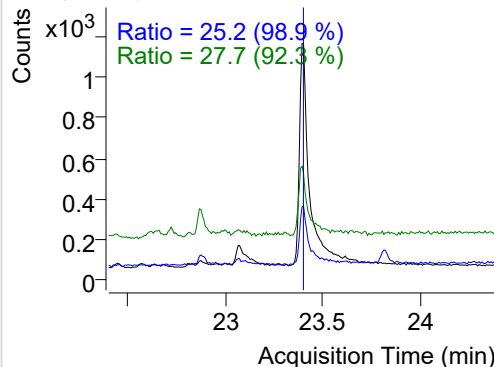
+ SIM (21.080-21.263 min, 24 scans) (**) 2212

**Coronene**

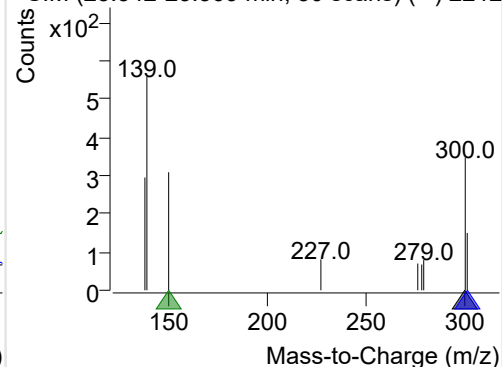
+ Selected Ion (300.0) 221208-PAHs-015.D



300.0, 301.0, 150.0



+ SIM (23.342-23.569 min, 30 scans) (**) 2212



Quantitative Analysis Sample Based Report

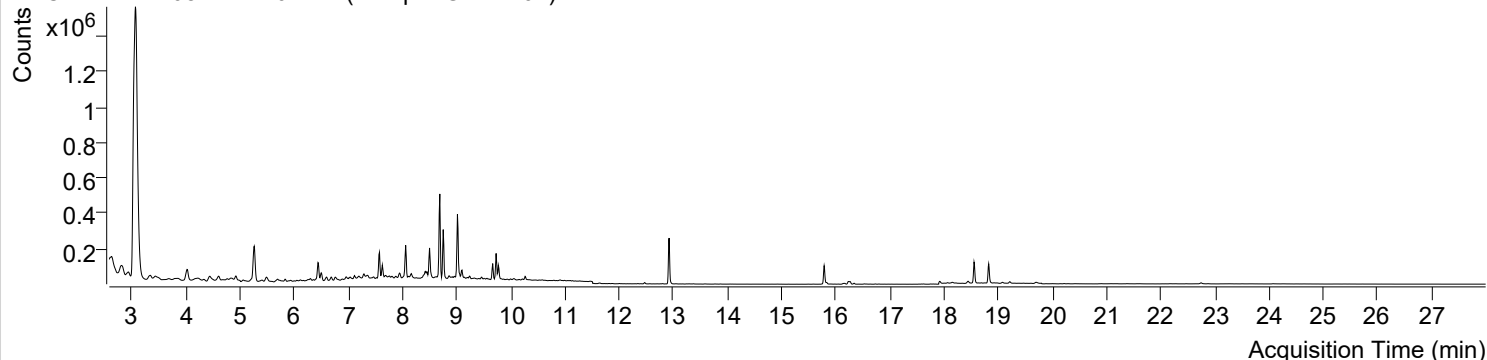


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 1:54:25	Data File	221208-PAHs-017.D
Type	Sample	Name	Sample-Gas-1101
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

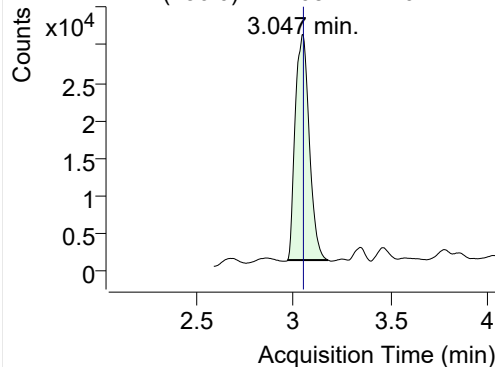
+ TIC SIM 221208-PAHs-017.D (Sample-Gas-1101)



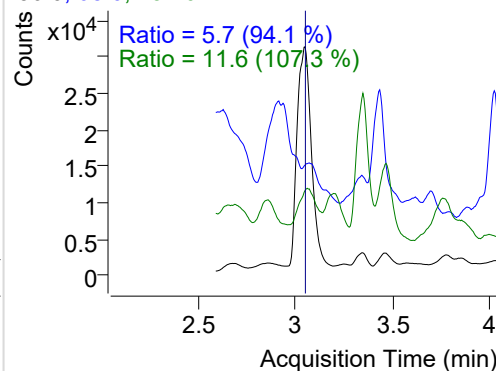
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.047	136.0	150816	29935.00	ND ng/ml	11.6
Naphthalene	3.069	128.0	6123766	1214937.42	ND ng/ml	13.2
Acenaphthylene	6.114	152.0	9609	4363.46	ND ng/ml	21.8
IS-D10-Acenaphthene	6.439	164.0	104362	48596.04	ND ng/ml	92.0
Acenaphthene	6.505	154.0	24179	11568.61	ND ng/ml	98.3
LSS-D10-Fluorene	7.575	176.0	114461	65612.58	ND ng/ml	92.4
Fluorene	7.627	166.0	63113	35179.41	ND ng/ml	107.1
IS-D10-Phenanthrene	9.727	188.0	179704	117604.52	ND ng/ml	16.6
Phenanthrene	9.769	178.0	82482	50778.93	ND ng/ml	20.1
Anthracene	9.864	178.0	1749	1237.25	ND ng/ml	
Fluoranthene	12.472	202.0	8119	4857.74	ND ng/ml	16.1
LSS-D10-Pyrene	12.922	212.0	309410	191563.47	ND ng/ml	18.4
Pyrene	12.954	202.0	8415	4819.78	ND ng/ml	15.9
Benz(a)anthracene	15.741	228.0	130	88.91	ND ng/ml	167.2
IS-D12-Chrysene	15.784	240.0	135968	77970.20	ND ng/ml	19.0
Chrysene	15.833	228.0	625	282.52	ND ng/ml	26.9
Benzo(b)fluoranthene	18.068	252.0	287	143.58	ND ng/ml	27.4
Benzo(k)fluoranthene	18.132	252.0	430	119.15	ND ng/ml	33.2
SS-D12-Benzo(e)pyrene	18.552	264.0	147207	81150.01	ND ng/ml	24.5
Benzo(e)pyrene	18.552	252.0	854	334.49	ND ng/ml	32.2
Benzo(a)pyrene	18.694	252.0	101	67.92	ND ng/ml	84.0
IS-D12-Perylene	18.822	264.0	140708	75096.71	ND ng/ml	23.0
Perylene	18.815	252.0	564	285.16	ND ng/ml	21.6
Indeno(1,2,3-c,d)pyrene	20.728	276.0	185	40.44	ND ng/ml	
Dibenz(a,h)anthracene	20.736	278.0	20	14.71	ND ng/ml	
Benzo(g,h,i)perylene	21.133	276.0	195	73.64	ND ng/ml	206.5
Coronene	23.401	300.0	194	52.27	ND ng/ml	

IS-D8-Naphthalene

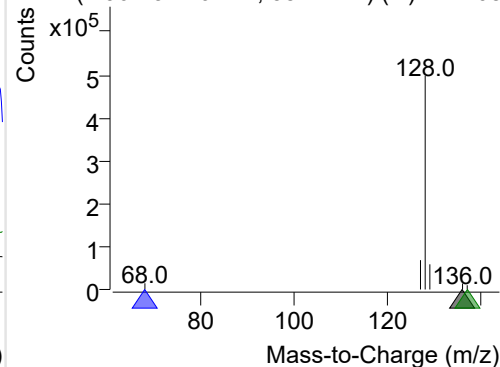
+ Selected Ion (136.0) 221208-PAHs-017.D



136.0, 68.0, 137.0

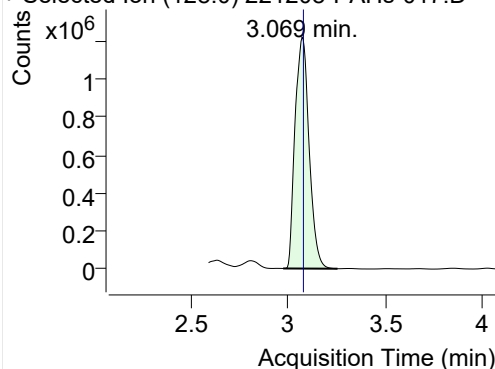


+ SIM (2.967-3.176 min, 38 scans) (**) 221208

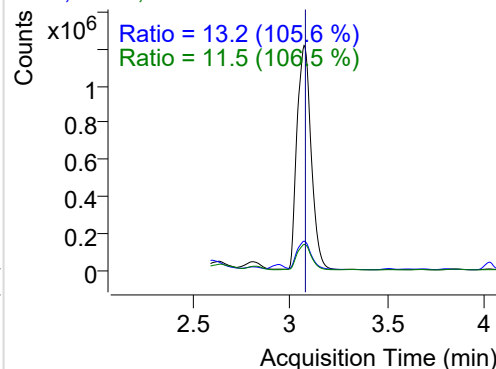


Naphthalene

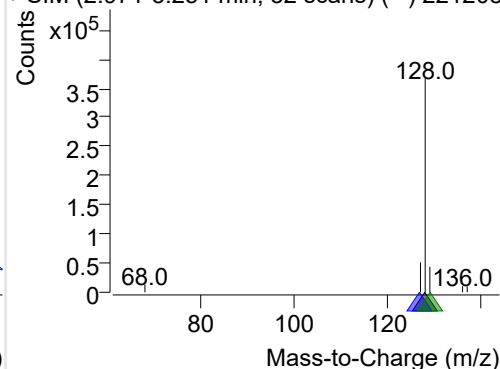
+ Selected Ion (128.0) 221208-PAHs-017.D



128.0, 127.0, 129.0

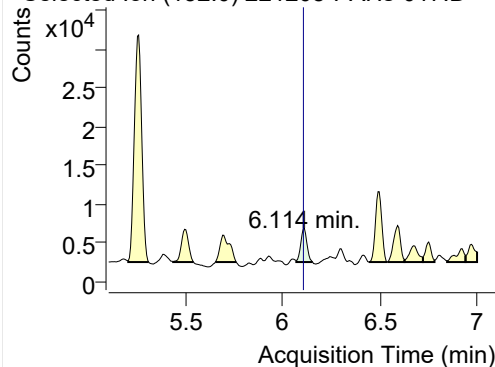


+ SIM (2.971-3.251 min, 52 scans) (**) 221208

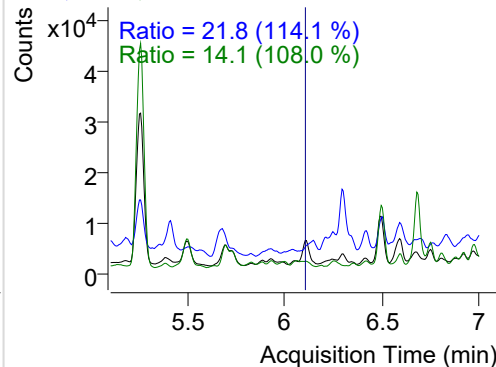


Acenaphthylene

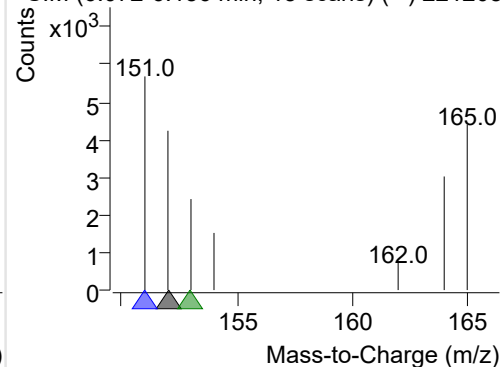
+ Selected Ion (152.0) 221208-PAHs-017.D



152.0, 151.0, 153.0

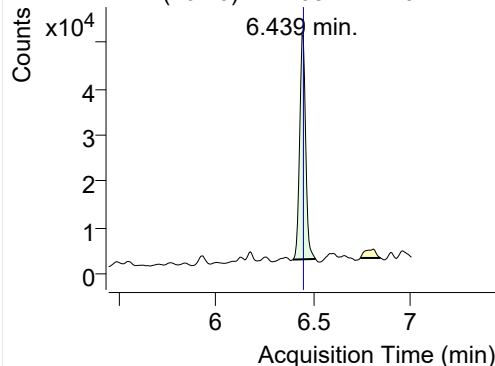


+ SIM (6.072-6.156 min, 15 scans) (**) 221208

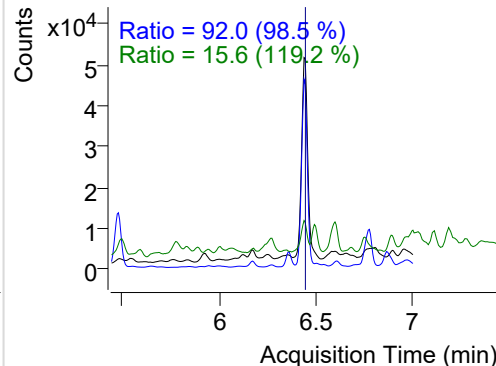


IS-D10-Acenaphthene

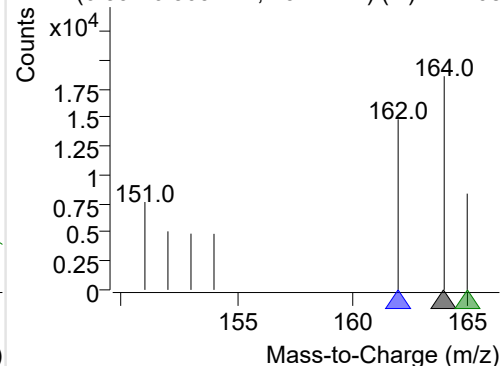
+ Selected Ion (164.0) 221208-PAHs-017.D



164.0, 162.0, 165.0

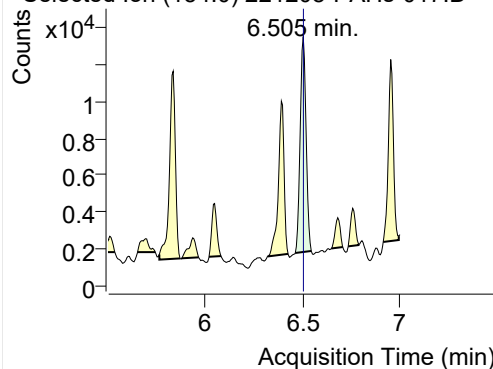


+ SIM (6.392-6.509 min, 19 scans) (**) 221208

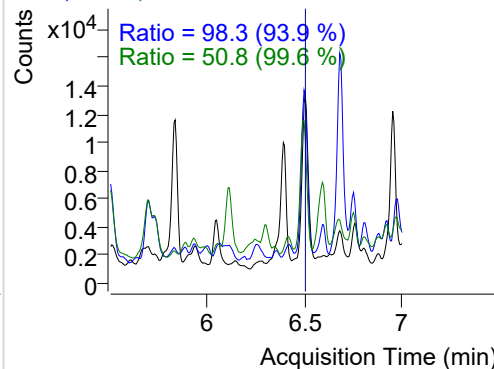


Acenaphthene

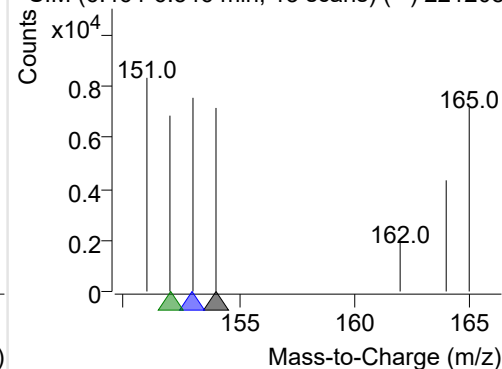
+ Selected Ion (154.0) 221208-PAHs-017.D



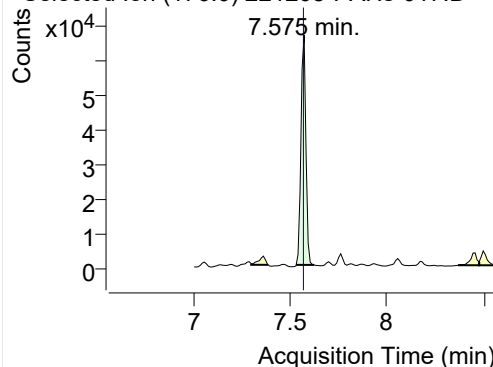
154.0, 153.0, 152.0



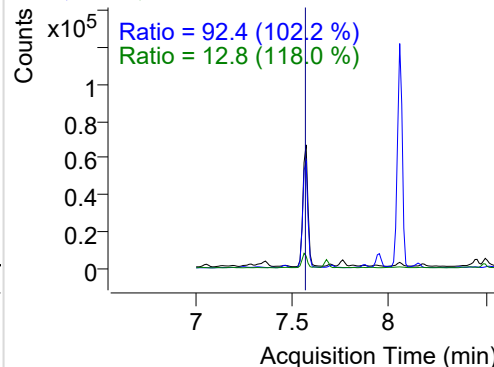
+ SIM (6.464-6.546 min, 13 scans) (**) 221208

**LSS-D10-Fluorene**

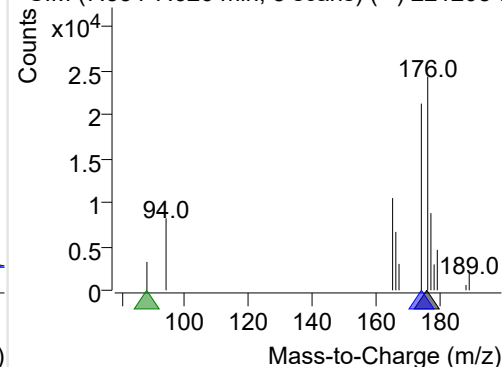
+ Selected Ion (176.0) 221208-PAHs-017.D



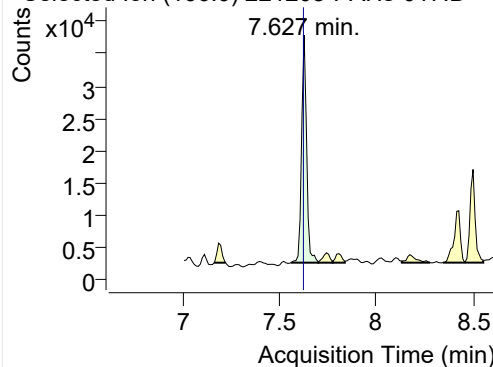
176.0, 174.0, 88.0



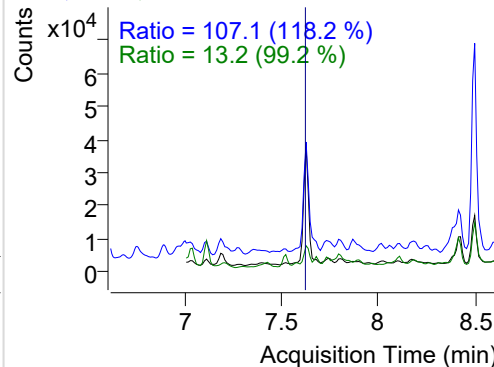
+ SIM (7.534-7.626 min, 8 scans) (**) 221208-I

**Fluorene**

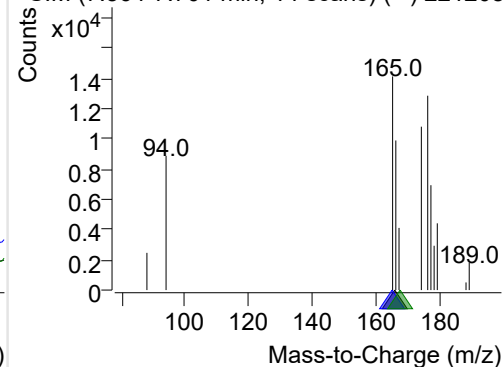
+ Selected Ion (166.0) 221208-PAHs-017.D



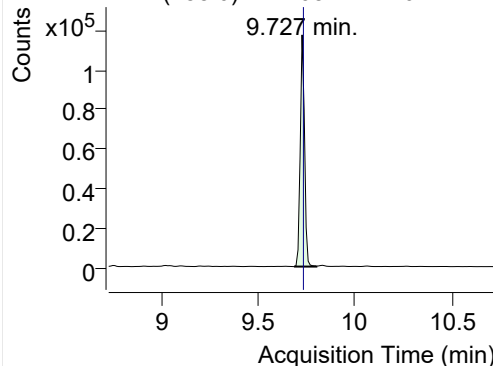
166.0, 165.0, 167.0



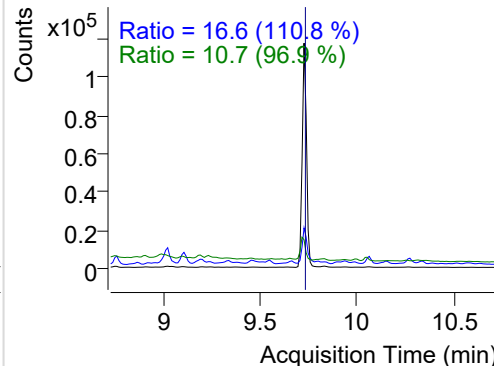
+ SIM (7.564-7.701 min, 14 scans) (**) 221208

**IS-D10-Phenanthrene**

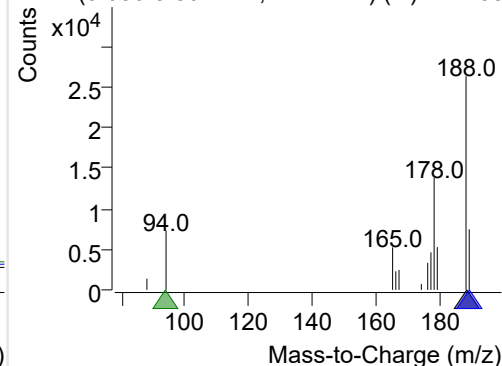
+ Selected Ion (188.0) 221208-PAHs-017.D



188.0, 189.0, 94.0

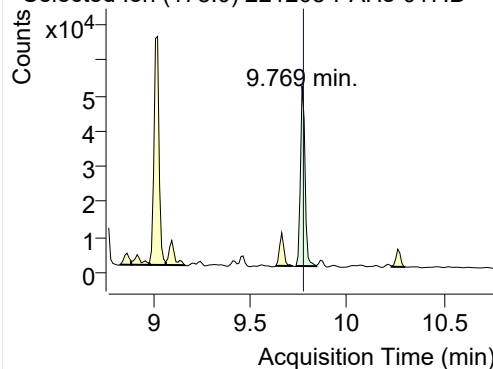


+ SIM (9.686-9.801 min, 11 scans) (**) 221208

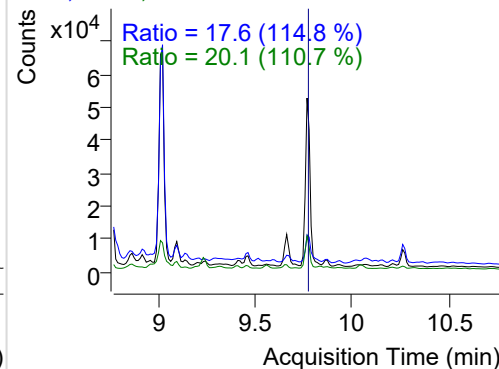


Phenanthrene

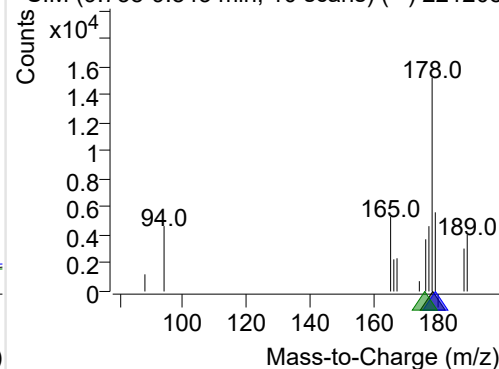
+ Selected Ion (178.0) 221208-PAHs-017.D



178.0, 179.0, 176.0

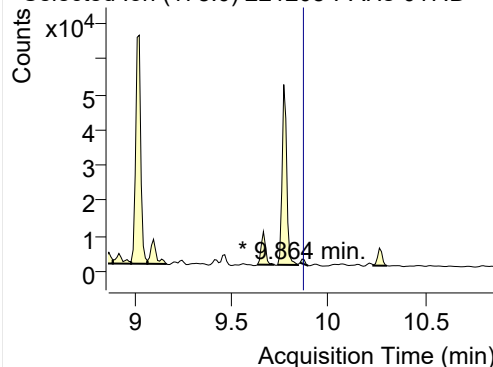


+ SIM (9.738-9.843 min, 10 scans) (**) 221208

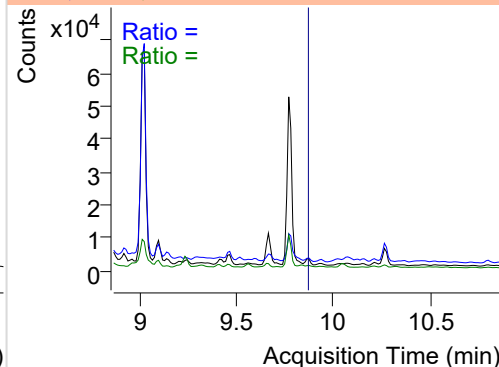


Anthracene

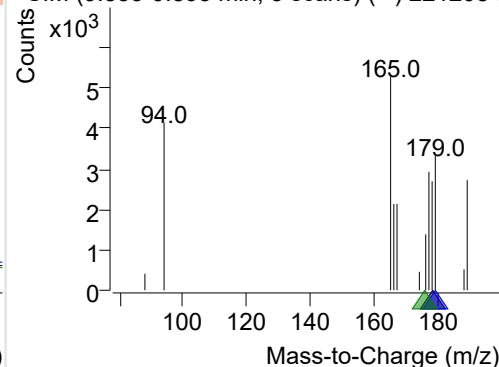
+ Selected Ion (178.0) 221208-PAHs-017.D



178.0, 179.0, 176.0

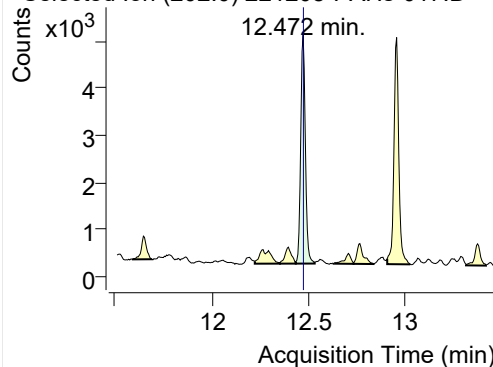


+ SIM (9.853-9.895 min, 5 scans) (**) 221208-I

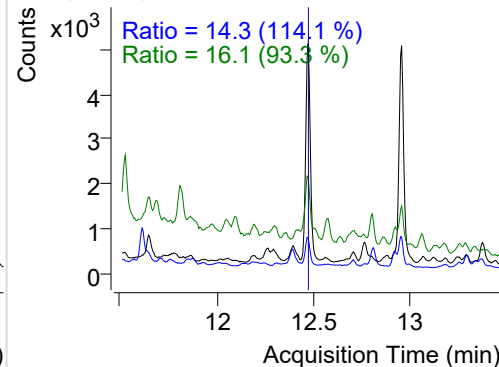


Fluoranthene

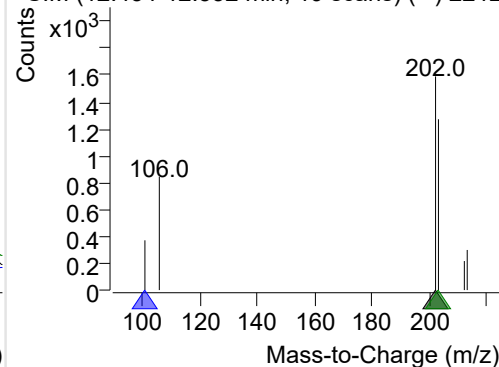
+ Selected Ion (202.0) 221208-PAHs-017.D



202.0, 101.0, 203.0

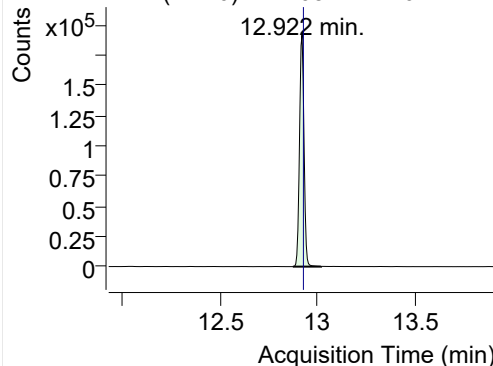


+ SIM (12.434-12.532 min, 19 scans) (**) 2212

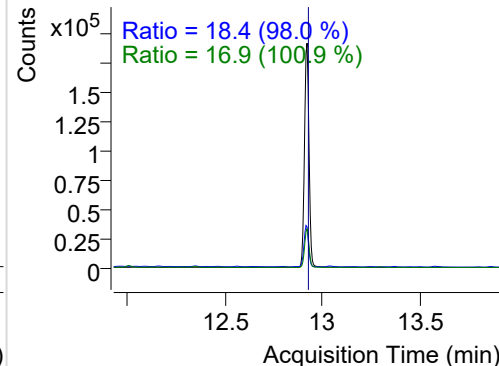


LSS-D10-Pyrene

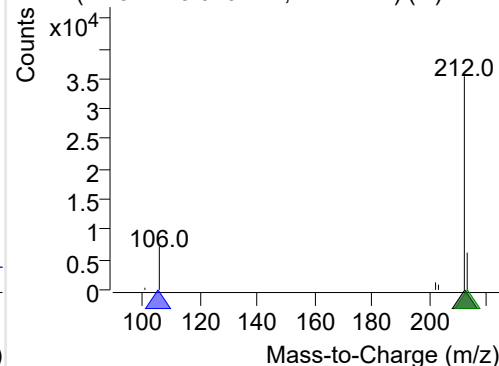
+ Selected Ion (212.0) 221208-PAHs-017.D



212.0, 106.0, 213.0

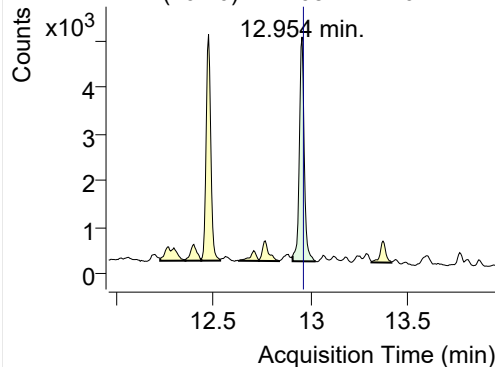


+ SIM (12.874-13.019 min, 27 scans) (**) 2212

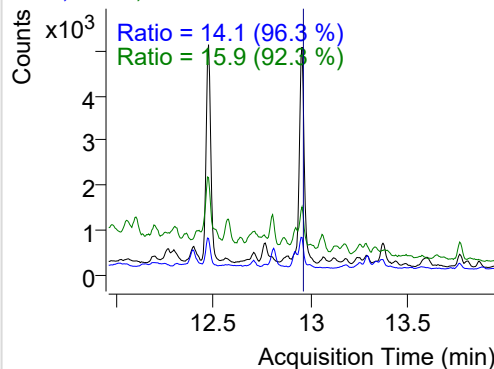


Pyrene

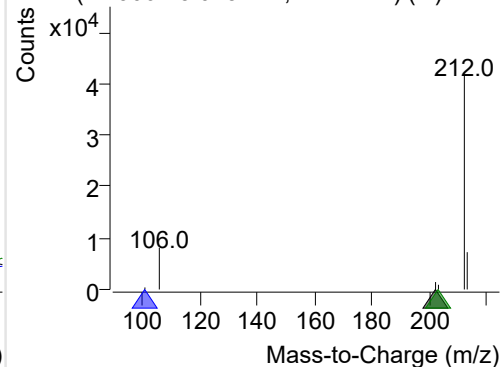
+ Selected Ion (202.0) 221208-PAHs-017.D



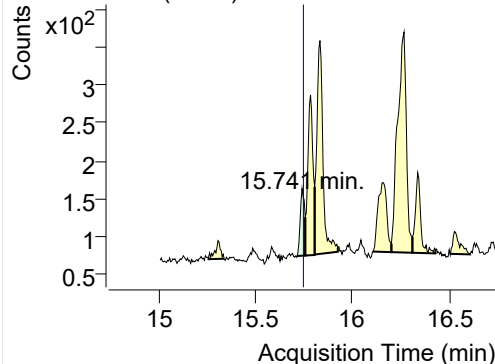
202.0, 101.0, 203.0



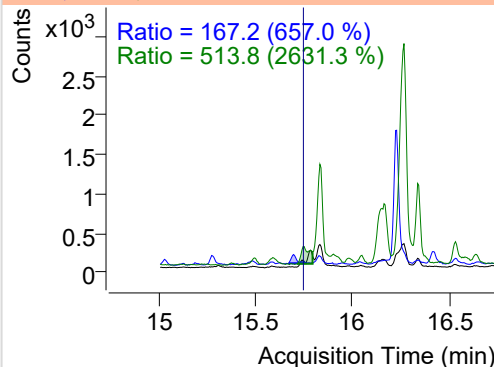
+ SIM (12.906-13.025 min, 22 scans) (**) 2212

**Benz(a)anthracene**

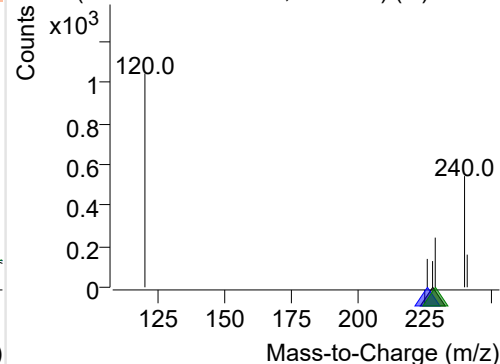
+ Selected Ion (228.0) 221208-PAHs-017.D



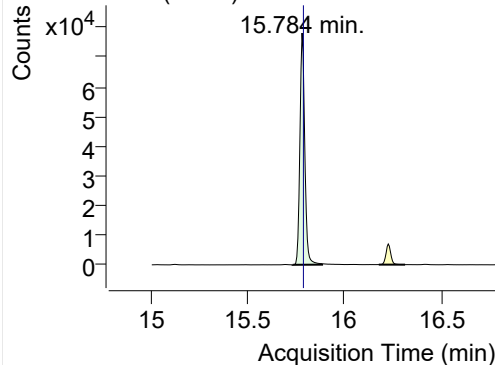
228.0, 226.0, 229.0



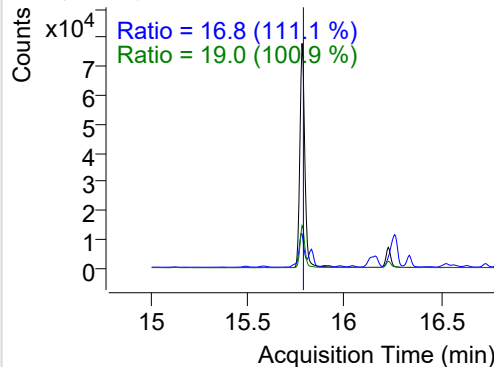
+ SIM (15.715-15.757 min, 8 scans) (**) 22120

**IS-D12-Chrysene**

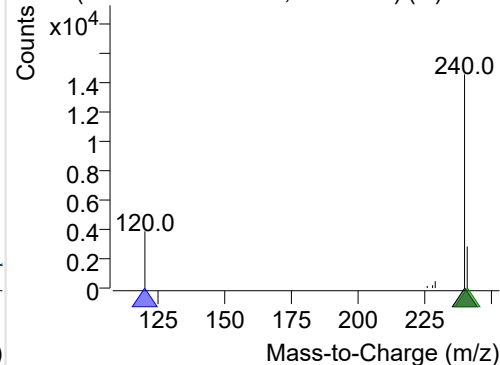
+ Selected Ion (240.0) 221208-PAHs-017.D



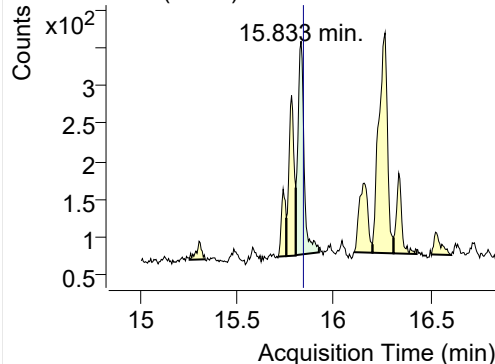
240.0, 120.0, 241.0



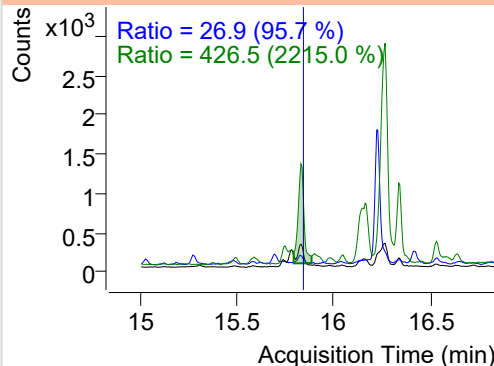
+ SIM (15.735-15.887 min, 29 scans) (**) 2212

**Chrysene**

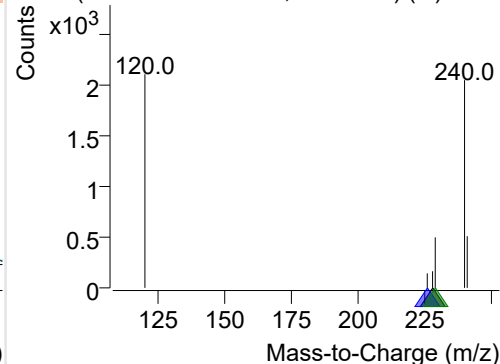
+ Selected Ion (228.0) 221208-PAHs-017.D



228.0, 226.0, 229.0



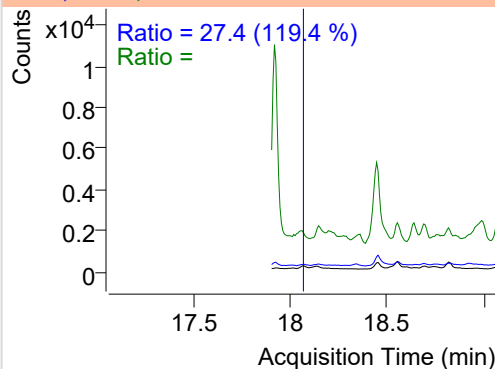
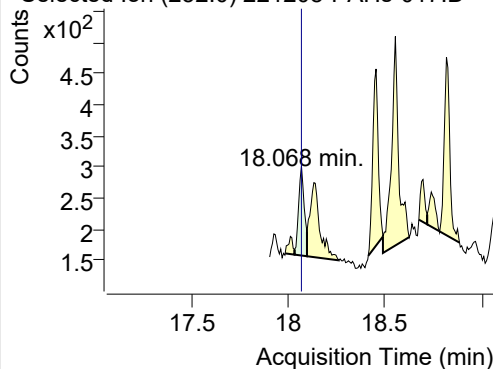
+ SIM (15.806-15.925 min, 23 scans) (**) 2212



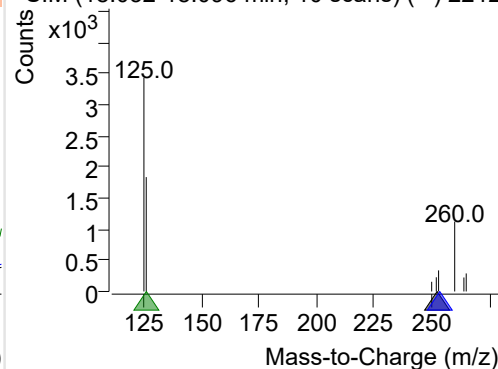
Benzo(b)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-017.D

252.0, 253.0, 126.0

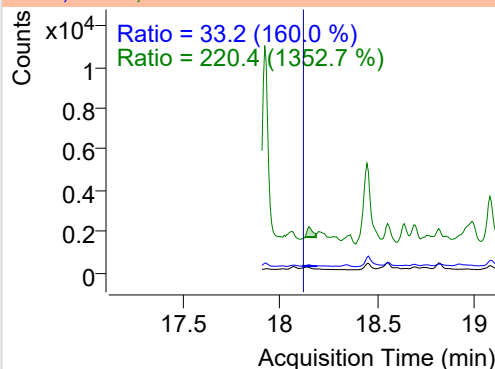
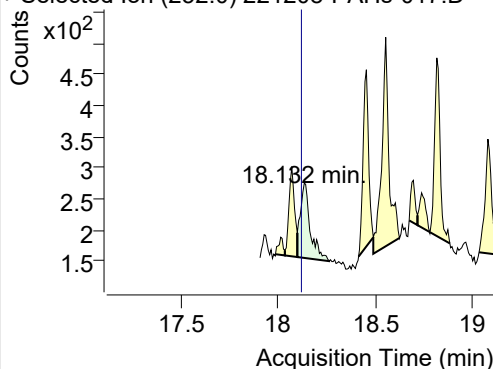


+ SIM (18.032-18.096 min, 10 scans) (**) 2212

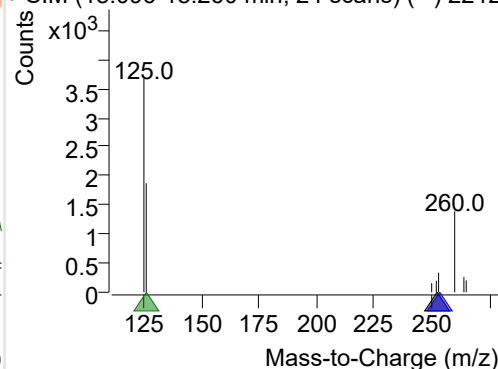
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-017.D

252.0, 253.0, 126.0

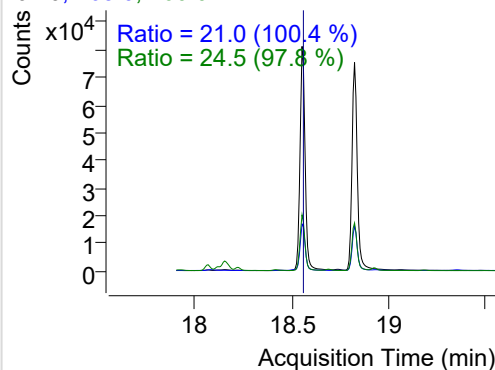
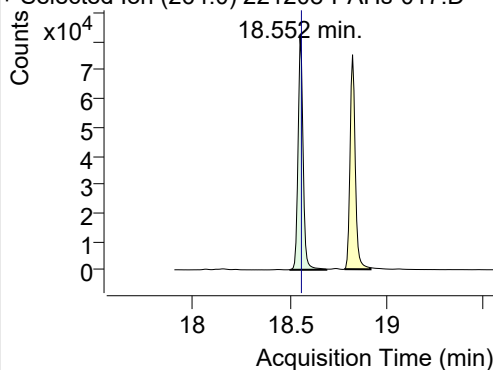


+ SIM (18.096-18.260 min, 24 scans) (**) 2212

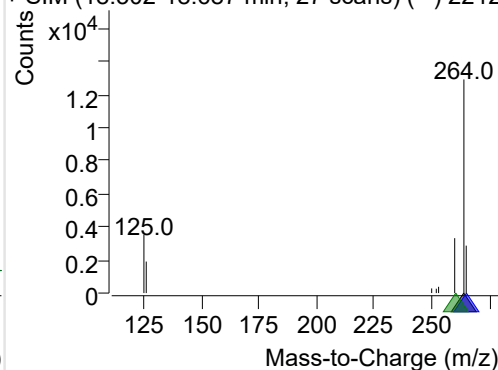
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-017.D

264.0, 265.0, 260.0

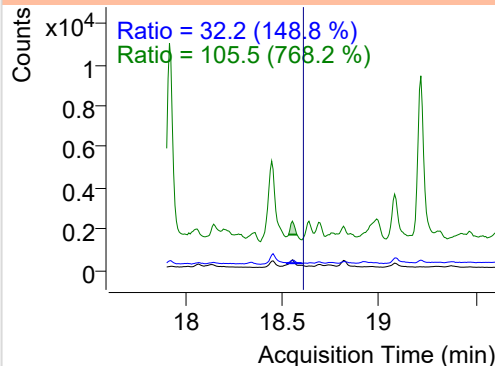
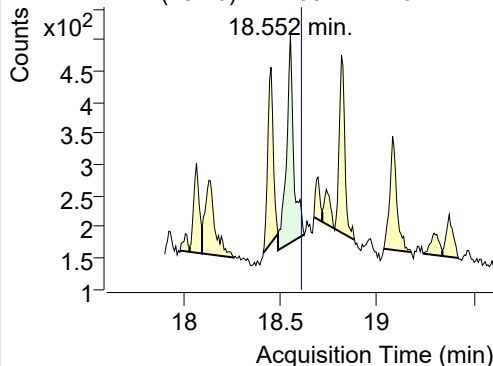


+ SIM (18.502-18.687 min, 27 scans) (**) 2212

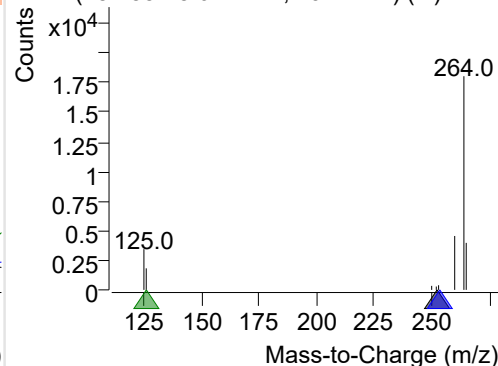
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-017.D

252.0, 253.0, 126.0



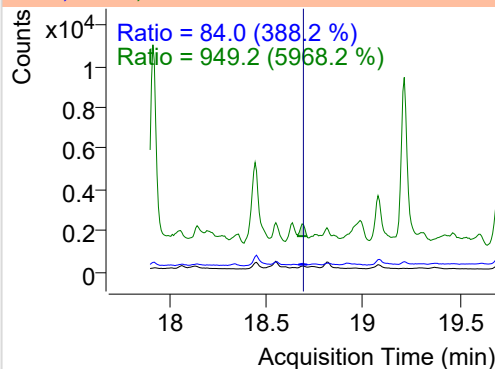
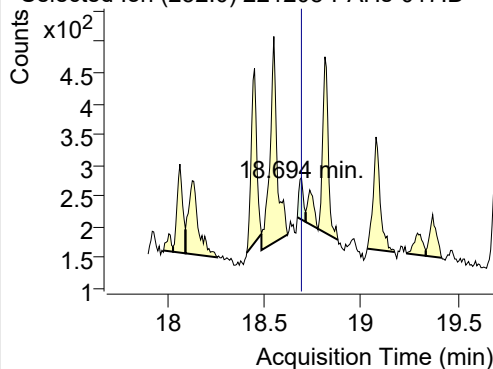
+ SIM (18.488-18.622 min, 19 scans) (**) 2212



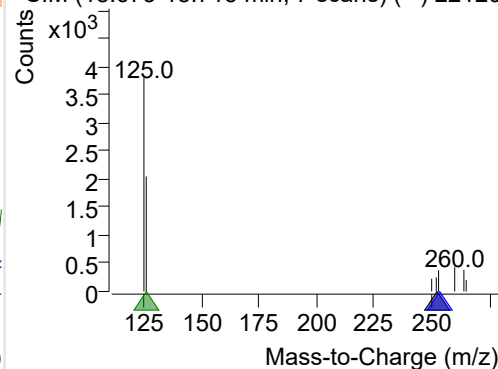
Benzo(a)pyrene

+ Selected Ion (252.0) 221208-PAHs-017.D

252.0, 253.0, 126.0

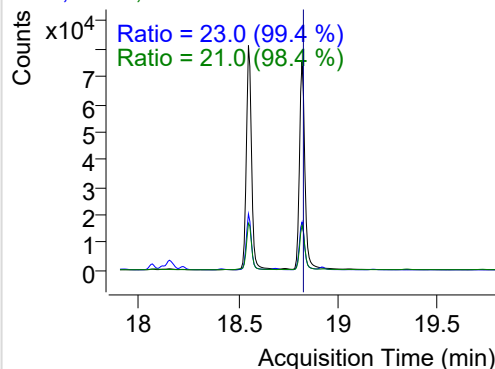
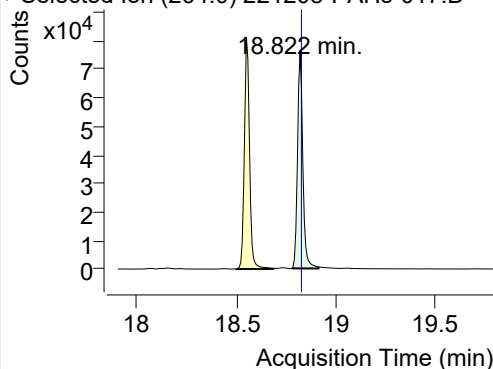


+ SIM (18.673-18.715 min, 7 scans) (**) 22120

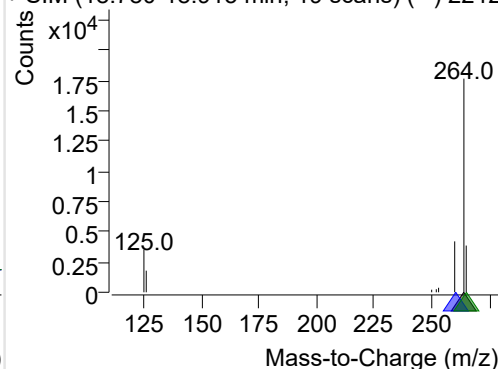
**IS-D12-Perylene**

+ Selected Ion (264.0) 221208-PAHs-017.D

264.0, 260.0, 265.0

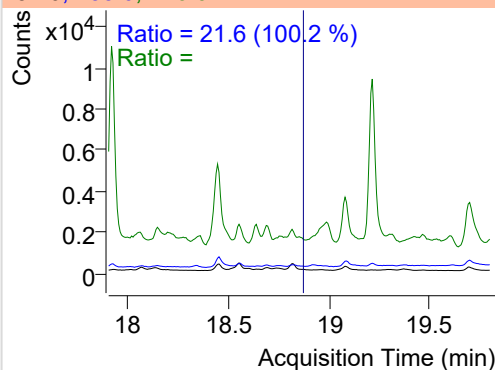
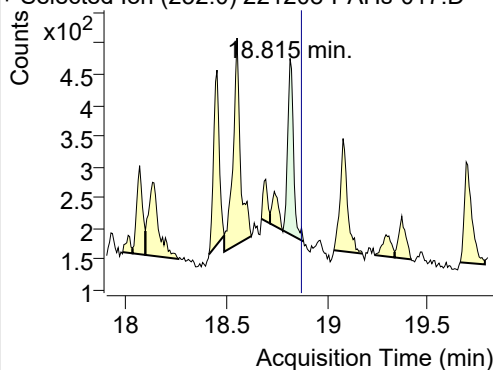


+ SIM (18.780-18.915 min, 19 scans) (**) 2212

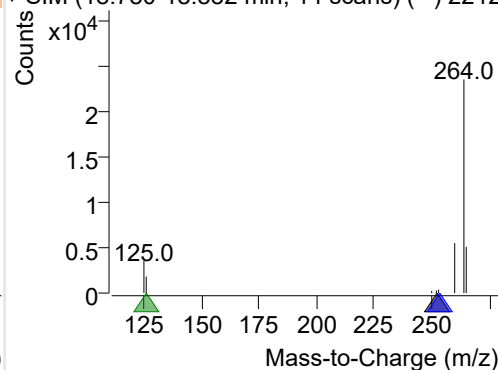
**Perylene**

+ Selected Ion (252.0) 221208-PAHs-017.D

252.0, 253.0, 126.0

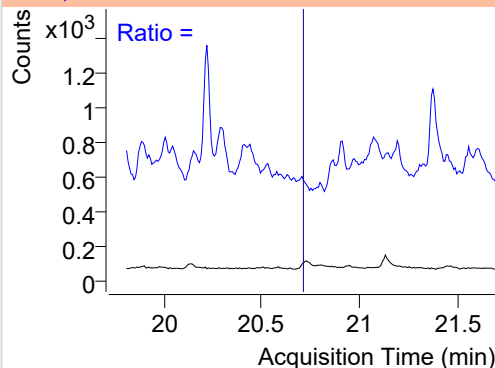
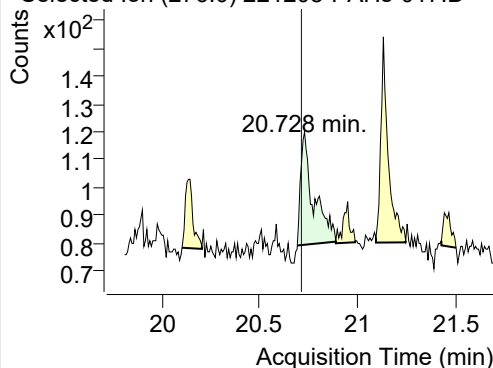


+ SIM (18.780-18.882 min, 14 scans) (**) 2212

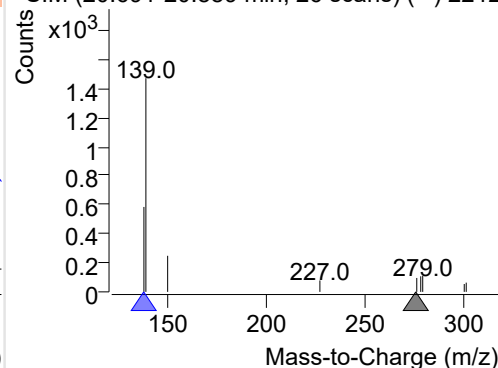
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 221208-PAHs-017.D

276.0, 138.0



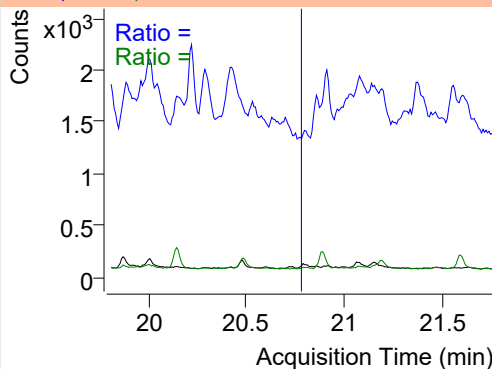
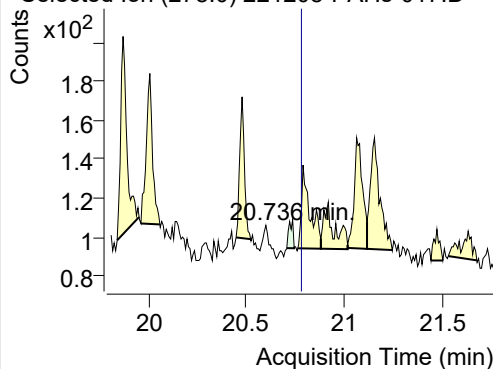
+ SIM (20.691-20.889 min, 26 scans) (**) 2212



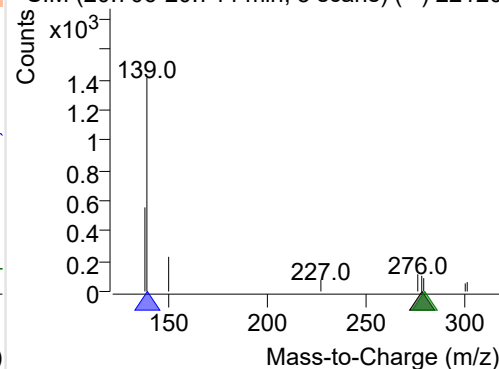
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 221208-PAHs-017.D

278.0, 139.0, 279.0

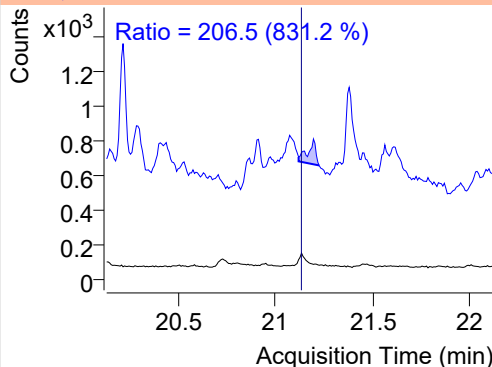
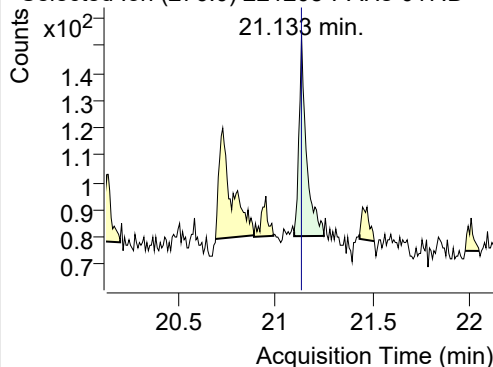


+ SIM (20.706-20.744 min, 5 scans) (**) 22120

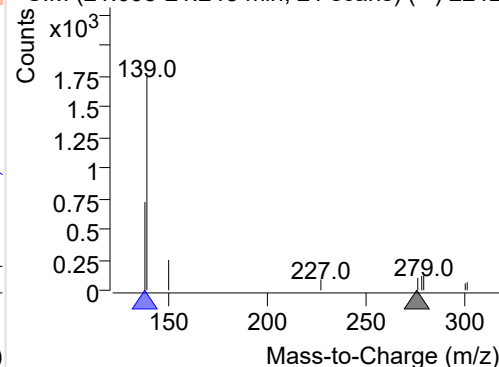
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 221208-PAHs-017.D

276.0, 138.0

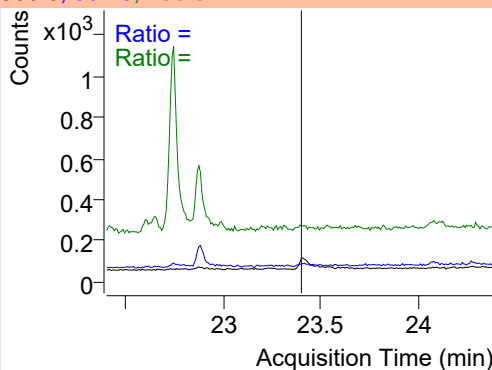
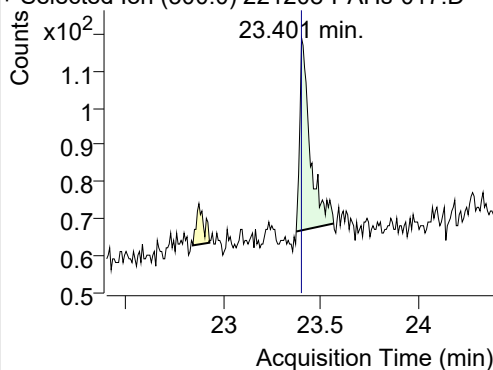


+ SIM (21.095-21.248 min, 21 scans) (**) 2212

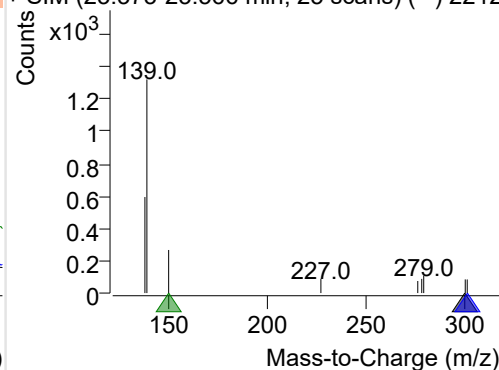
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-017.D

300.0, 301.0, 150.0



+ SIM (23.373-23.566 min, 25 scans) (**) 2212



Quantitative Analysis Sample Based Report

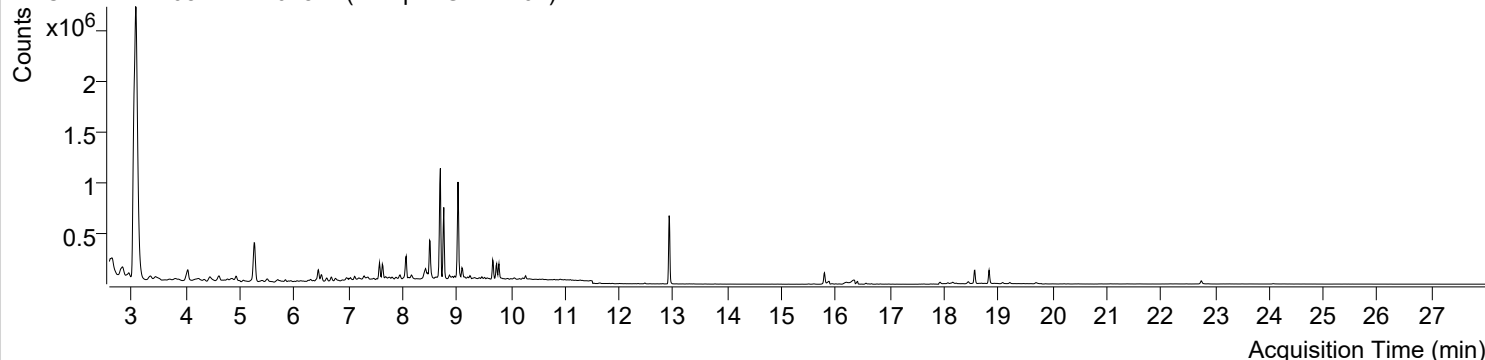


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 2:25:34	Data File	221208-PAHs-018.D
Type	Sample	Name	Sample-Gas-1107
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

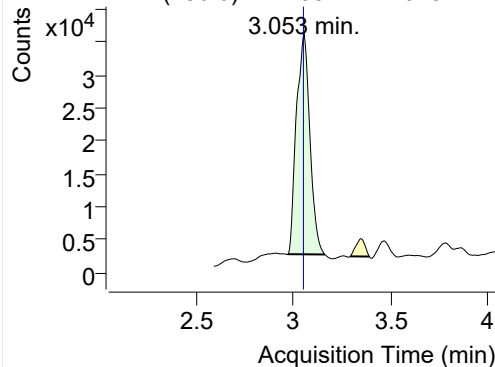
+ TIC SIM 221208-PAHs-018.D (Sample-Gas-1107)



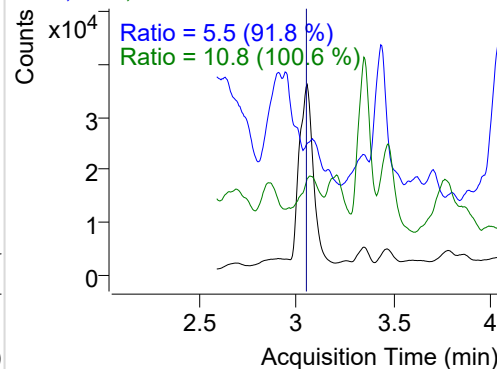
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.053	136.0	160693	33314.55	ND ng/ml	10.8
Naphthalene	3.074	128.0	10544793	2146793.40	ND ng/ml	13.1
Acenaphthylene	6.114	152.0	9941	4512.14	ND ng/ml	18.3
IS-D10-Acenaphthene	6.445	164.0	124335	54857.96	ND ng/ml	85.0
Acenaphthene	6.510	154.0	34555	15137.74	ND ng/ml	95.3
LSS-D10-Fluorene	7.575	176.0	121619	70590.16	ND ng/ml	91.1
Fluorene	7.627	166.0	138050	71614.46	ND ng/ml	103.7
IS-D10-Phenanthrene	9.738	188.0	195722	122493.05	ND ng/ml	16.4
Phenanthrene	9.780	178.0	152623	98179.14	ND ng/ml	19.1
Anthracene	9.874	178.0	3519	2634.00	ND ng/ml	
Fluoranthene	12.477	202.0	8503	5179.55	ND ng/ml	18.2
LSS-D10-Pyrene	12.922	212.0	816909	495818.31	ND ng/ml	18.3
Pyrene	12.954	202.0	10546	6401.46	ND ng/ml	17.7
Benz(a)anthracene	15.789	228.0	923	304.33	ND ng/ml	64.6
IS-D12-Chrysene	15.789	240.0	152818	81936.37	ND ng/ml	19.0
Chrysene	15.876	228.0	1916	577.03	ND ng/ml	37.6
Benzo(b)fluoranthene	18.075	252.0	357	147.90	ND ng/ml	30.1
Benzo(k)fluoranthene	18.132	252.0	580	165.72	ND ng/ml	38.8
SS-D12-Benzo(e)pyrene	18.566	264.0	167775	90782.97	ND ng/ml	24.4
Benzo(e)pyrene	18.559	252.0	801	338.67	ND ng/ml	60.5
Benzo(a)pyrene	18.694	252.0	1461	680.71	ND ng/ml	44.7
IS-D12-Perylene	18.829	264.0	160403	91340.07	ND ng/ml	22.9
Perylene	18.822	252.0	613	322.33	ND ng/ml	50.4
Indeno(1,2,3-c,d)pytene	20.721	276.0	179	46.79	ND ng/ml	
Dibenz(a,h)anthracene	20.476	278.0	1666	778.21	ND ng/ml	39.8
Benzo(g,h,i)perylene	21.133	276.0	257	86.75	ND ng/ml	506.8
Coronene	23.408	300.0	208	57.16	ND ng/ml	

IS-D8-Naphthalene

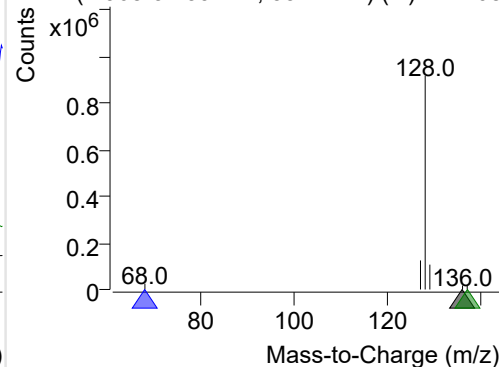
+ Selected Ion (136.0) 221208-PAHs-018.D



136.0, 68.0, 137.0

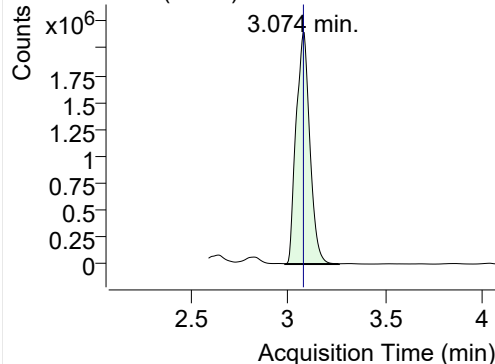


+ SIM (2.968-3.159 min, 35 scans) (**) 221208

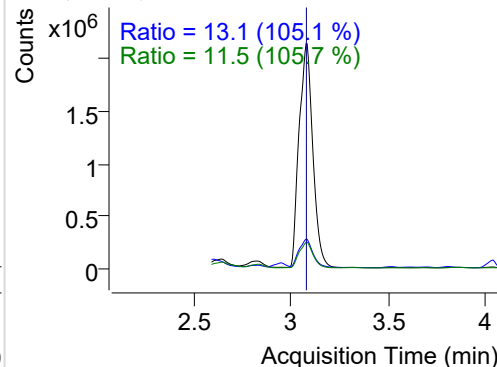


Naphthalene

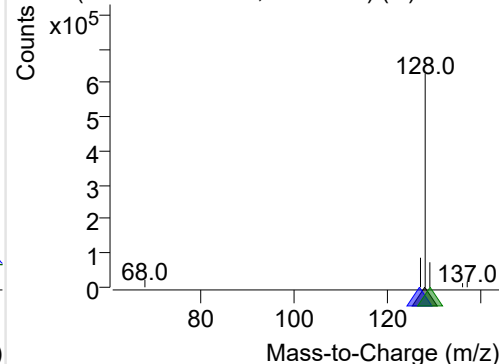
+ Selected Ion (128.0) 221208-PAHs-018.D



128.0, 127.0, 129.0

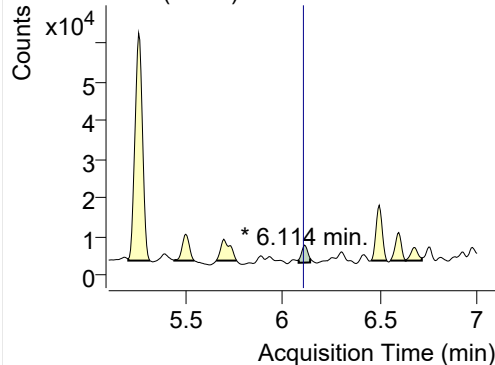


+ SIM (2.982-3.258 min, 52 scans) (**) 221208

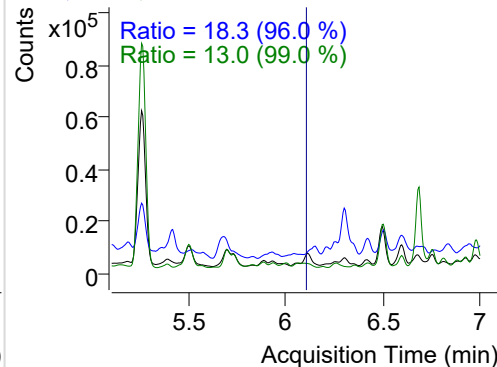


Acenaphthylene

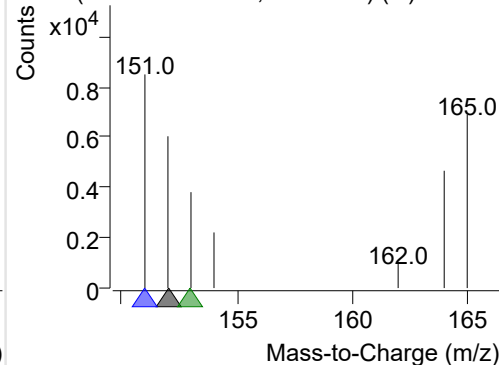
+ Selected Ion (152.0) 221208-PAHs-018.D



152.0, 151.0, 153.0

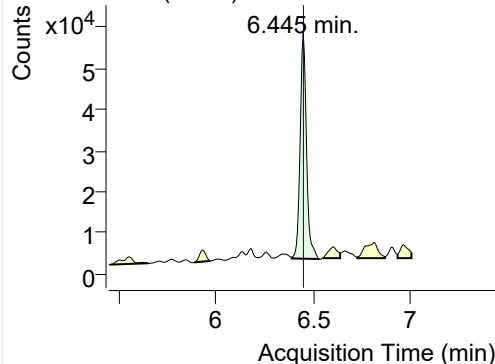


+ SIM (6.084-6.143 min, 11 scans) (**) 221208

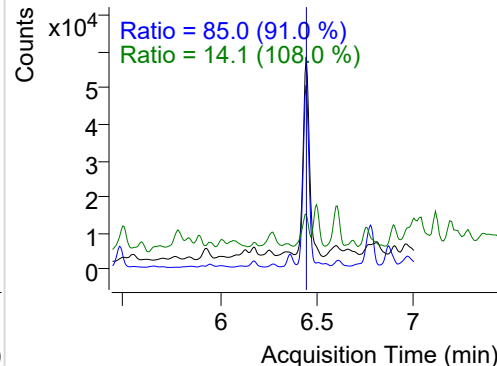


IS-D10-Acenaphthene

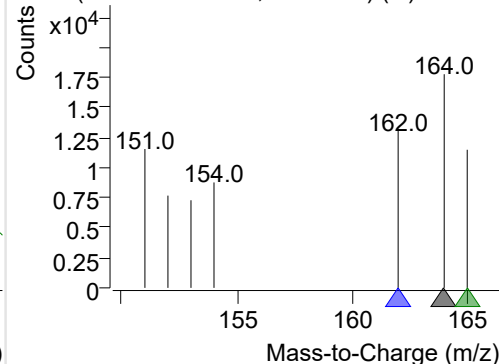
+ Selected Ion (164.0) 221208-PAHs-018.D



164.0, 162.0, 165.0

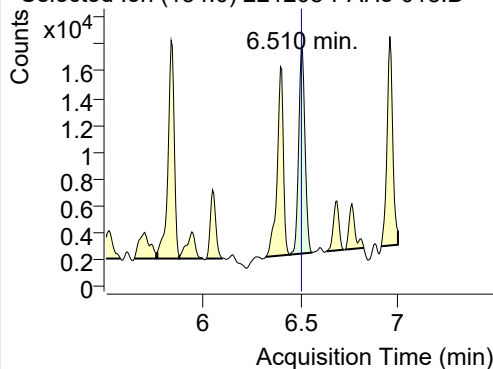


+ SIM (6.386-6.528 min, 25 scans) (**) 221208

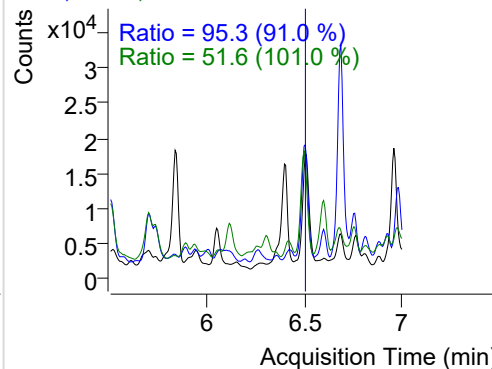


Acenaphthene

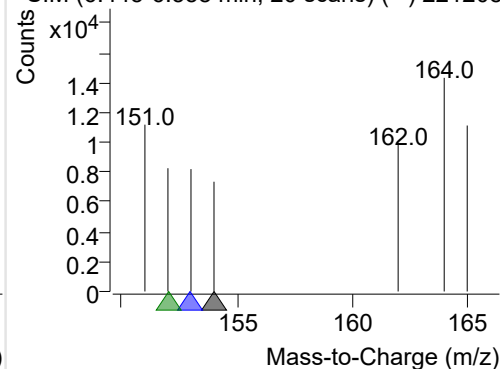
+ Selected Ion (154.0) 221208-PAHs-018.D



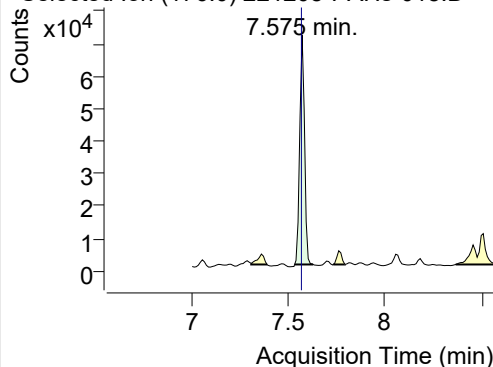
154.0, 153.0, 152.0



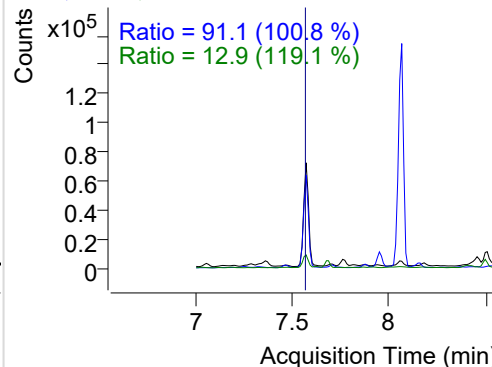
+ SIM (6.445-6.558 min, 20 scans) (**) 221208

**LSS-D10-Fluorene**

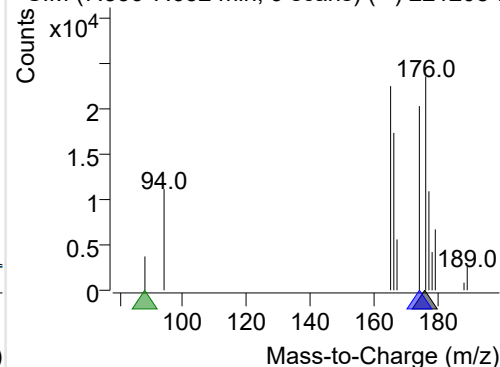
+ Selected Ion (176.0) 221208-PAHs-018.D



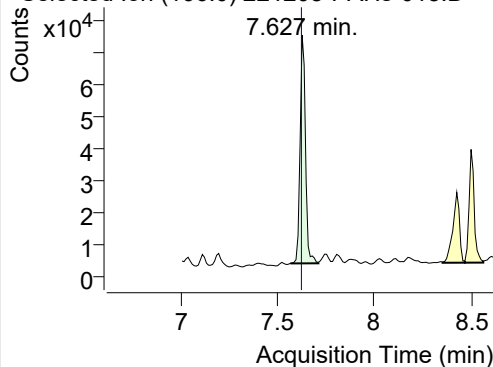
176.0, 174.0, 88.0



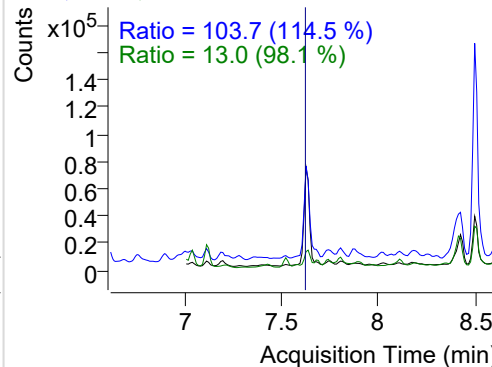
+ SIM (7.536-7.632 min, 9 scans) (**) 221208-I

**Fluorene**

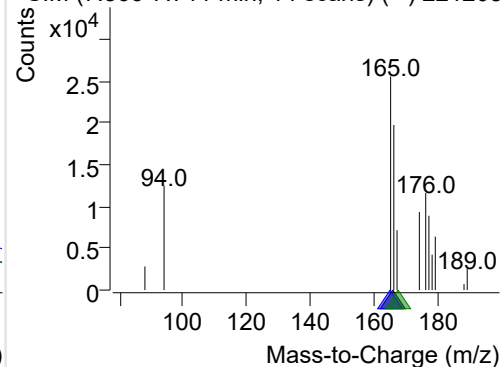
+ Selected Ion (166.0) 221208-PAHs-018.D



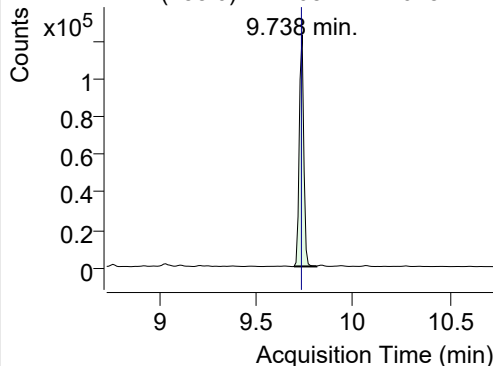
166.0, 165.0, 167.0



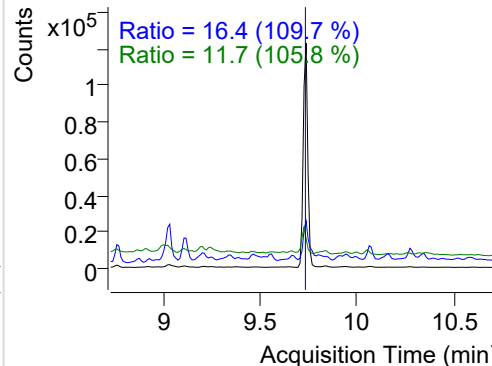
+ SIM (7.566-7.711 min, 14 scans) (**) 221208

**IS-D10-Phenanthrene**

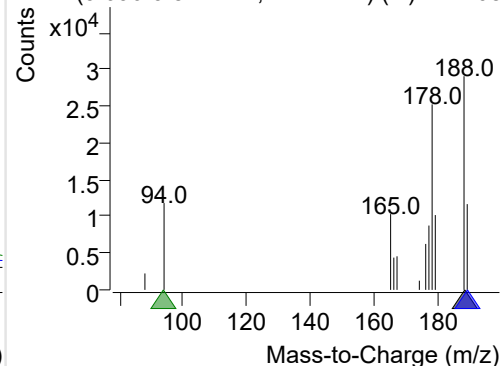
+ Selected Ion (188.0) 221208-PAHs-018.D



188.0, 189.0, 94.0

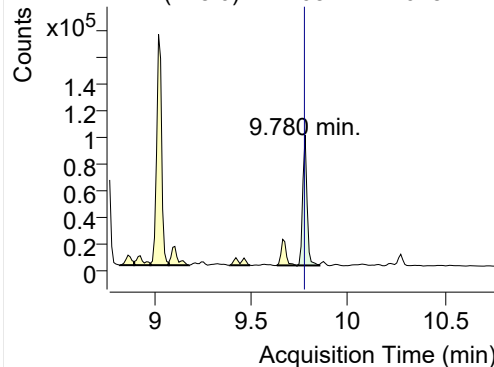


+ SIM (9.696-9.811 min, 11 scans) (**) 221208

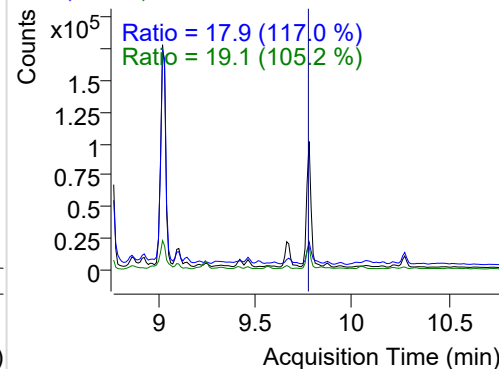


Phenanthrene

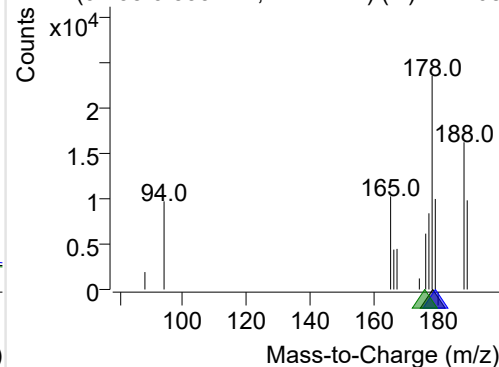
+ Selected Ion (178.0) 221208-PAHs-018.D



178.0, 179.0, 176.0

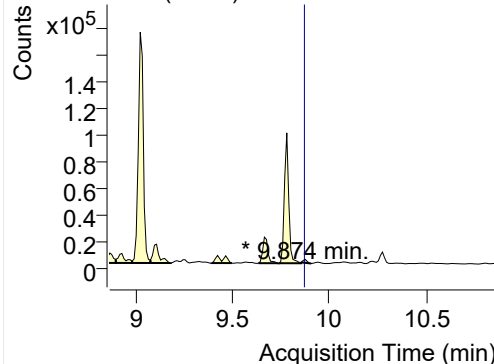


+ SIM (9.738-9.853 min, 12 scans) (**) 221208

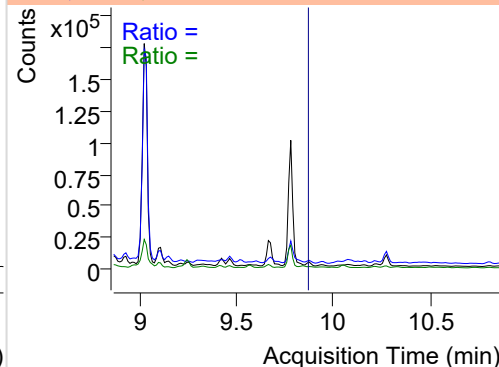


Anthracene

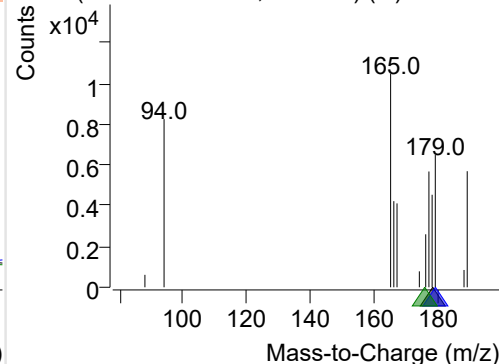
+ Selected Ion (178.0) 221208-PAHs-018.D



178.0, 179.0, 176.0

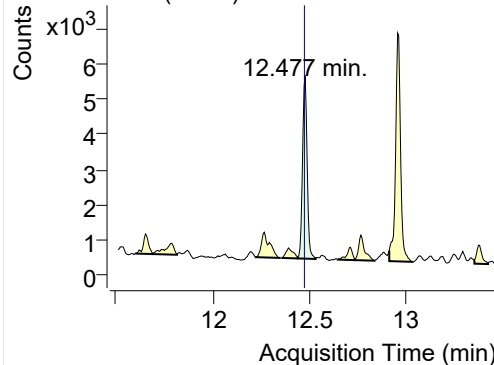


+ SIM (9.853-9.906 min, 6 scans) (**) 221208-I

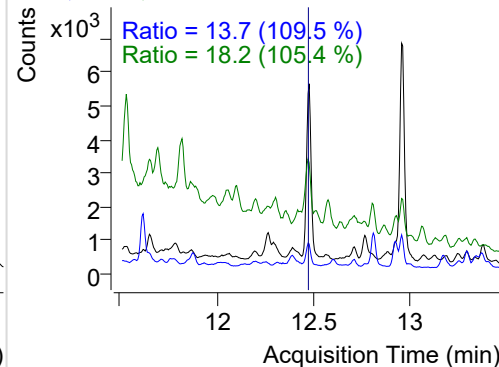


Fluoranthene

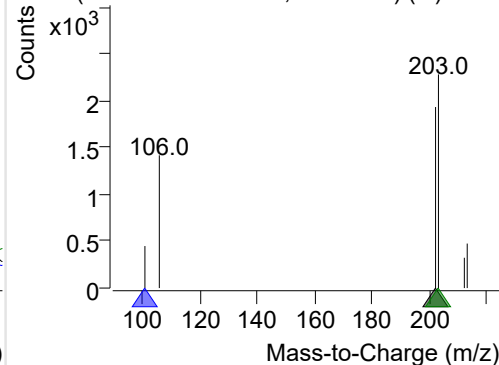
+ Selected Ion (202.0) 221208-PAHs-018.D



202.0, 101.0, 203.0

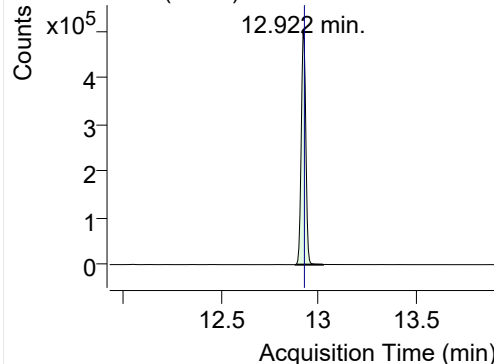


+ SIM (12.440-12.532 min, 18 scans) (**) 2212

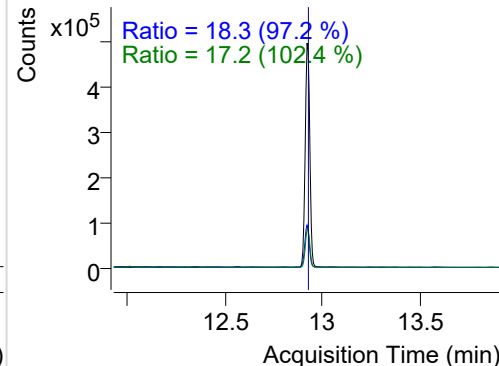


LSS-D10-Pyrene

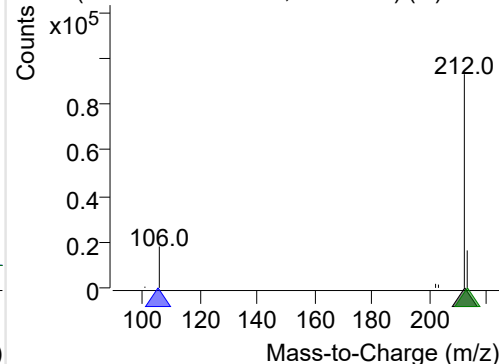
+ Selected Ion (212.0) 221208-PAHs-018.D



212.0, 106.0, 213.0

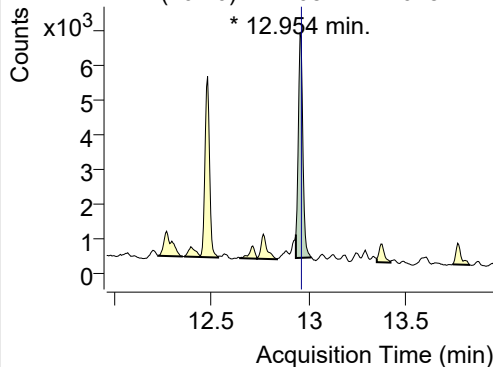


+ SIM (12.884-13.025 min, 27 scans) (**) 2212

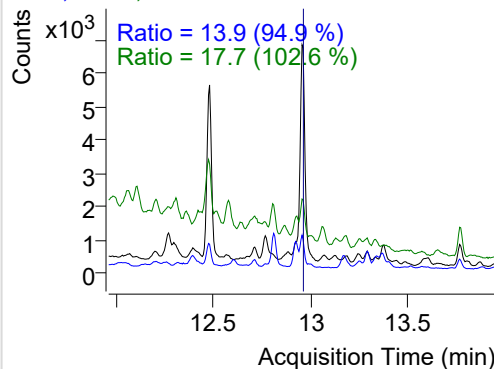


Pyrene

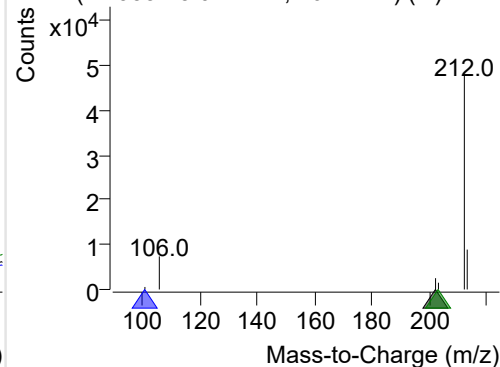
+ Selected Ion (202.0) 221208-PAHs-018.D



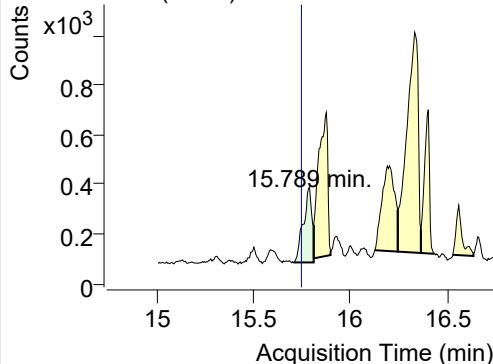
202.0, 101.0, 203.0



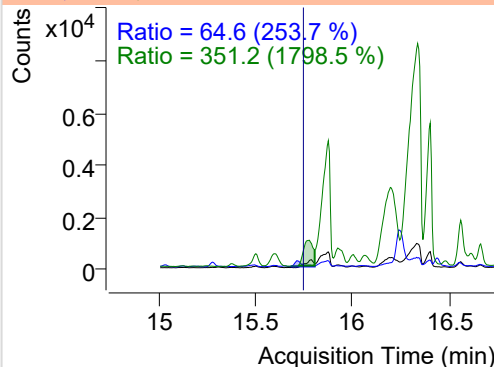
+ SIM (12.933-13.014 min, 16 scans) (**) 2212

**Benz(a)anthracene**

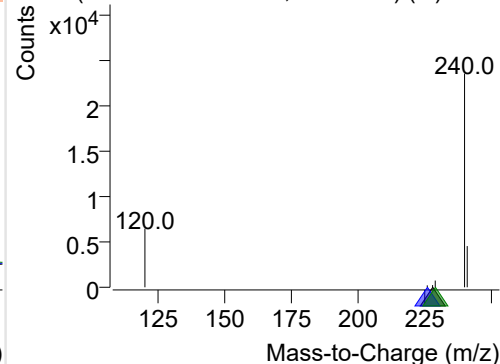
+ Selected Ion (228.0) 221208-PAHs-018.D



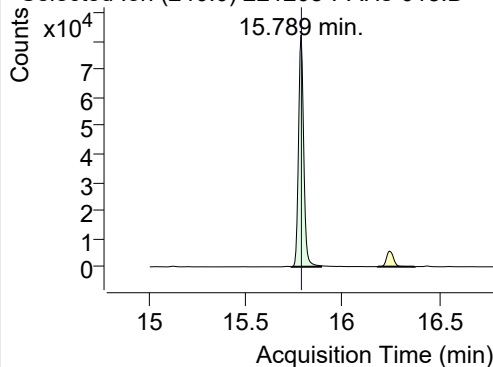
228.0, 226.0, 229.0



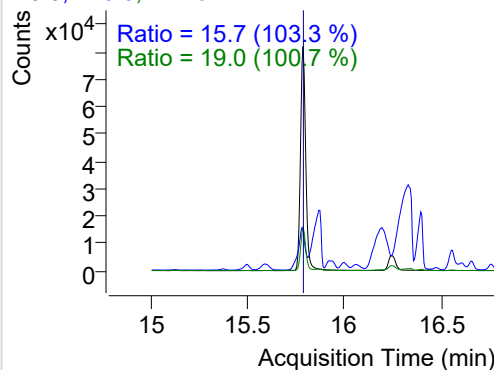
+ SIM (15.710-15.811 min, 19 scans) (**) 2212

**IS-D12-Chrysene**

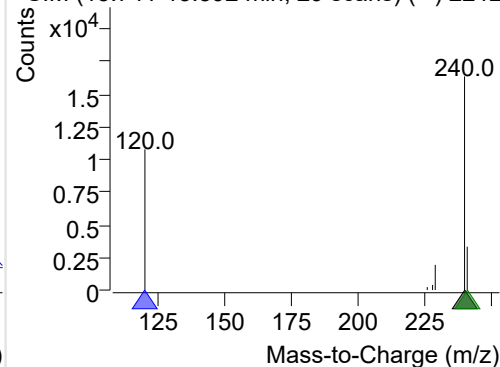
+ Selected Ion (240.0) 221208-PAHs-018.D



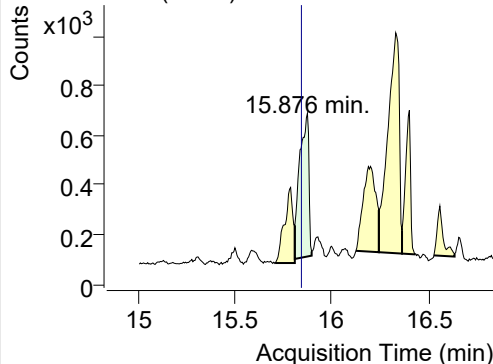
240.0, 120.0, 241.0



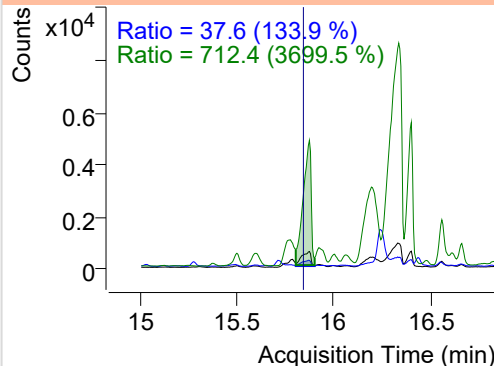
+ SIM (15.741-15.892 min, 29 scans) (**) 2212

**Chrysene**

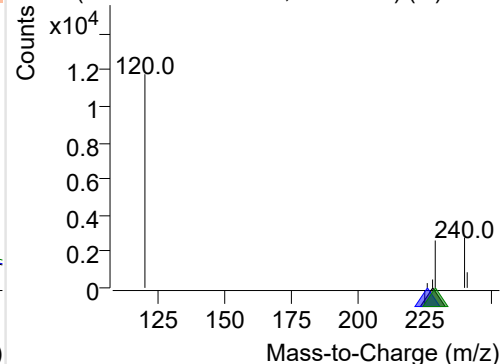
+ Selected Ion (228.0) 221208-PAHs-018.D



228.0, 226.0, 229.0



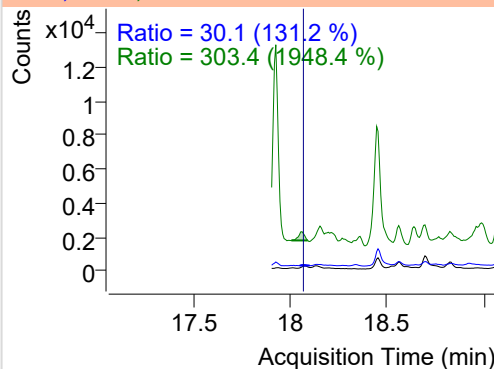
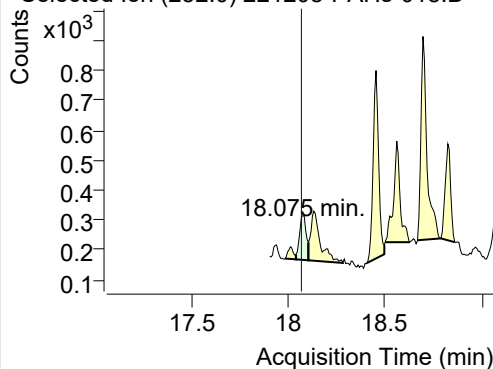
+ SIM (15.811-15.898 min, 17 scans) (**) 2212



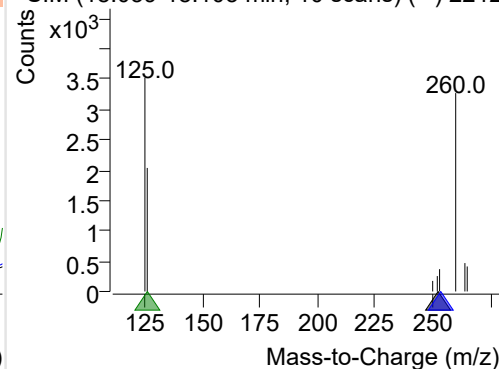
Benzo(b)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-018.D

252.0, 253.0, 126.0

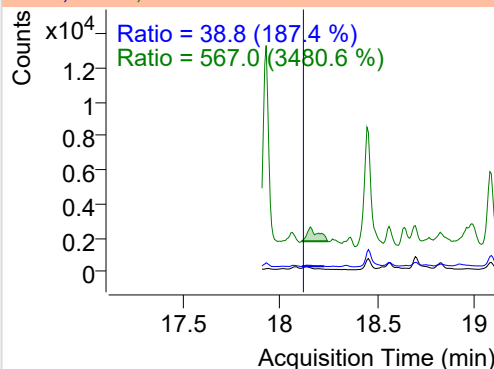
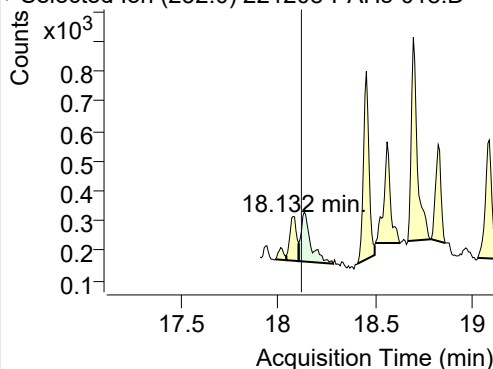


+ SIM (18.039-18.103 min, 10 scans) (**) 2212

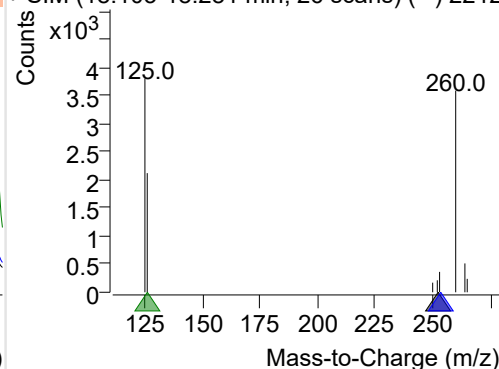
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-018.D

252.0, 253.0, 126.0

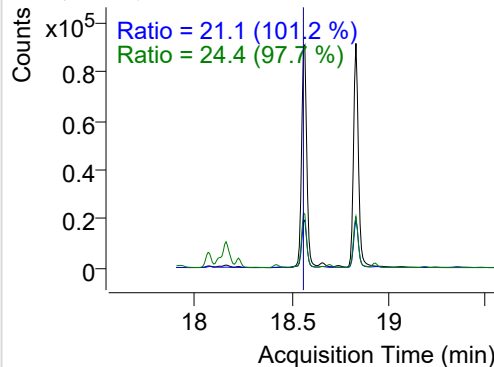
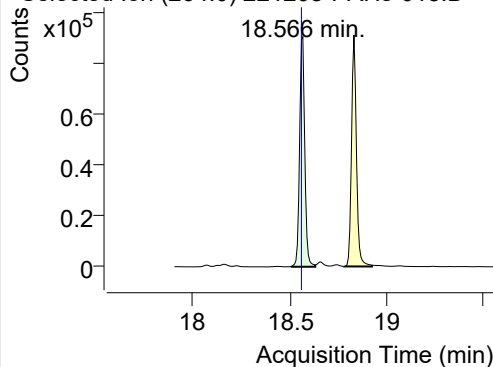


+ SIM (18.103-18.281 min, 26 scans) (**) 2212

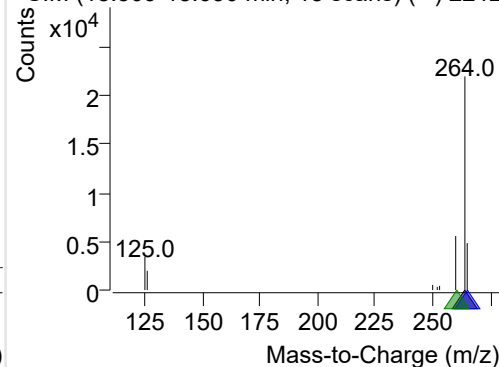
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-018.D

264.0, 265.0, 260.0

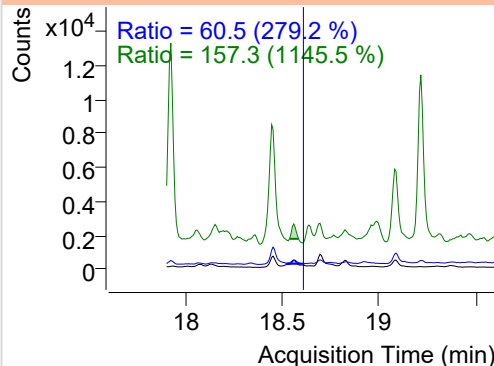
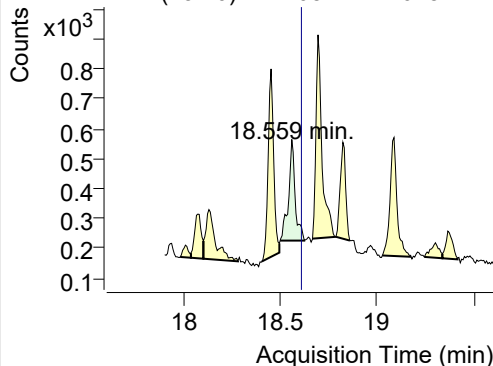


+ SIM (18.509-18.630 min, 18 scans) (**) 2212

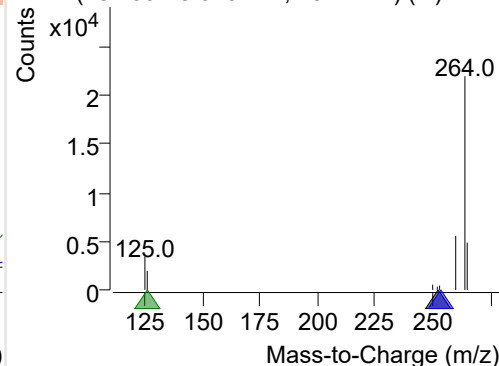
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-018.D

252.0, 253.0, 126.0



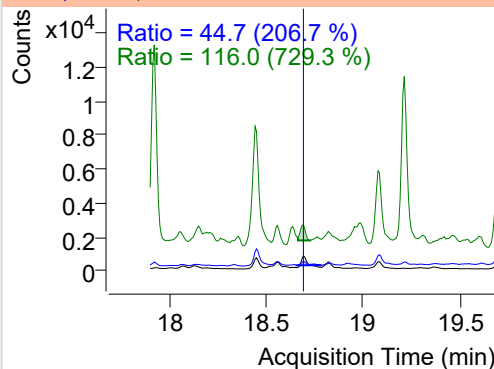
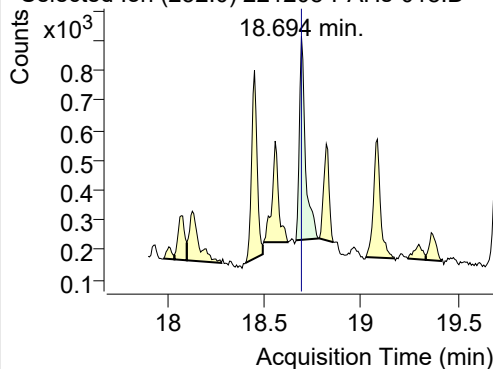
+ SIM (18.499-18.623 min, 18 scans) (**) 2212



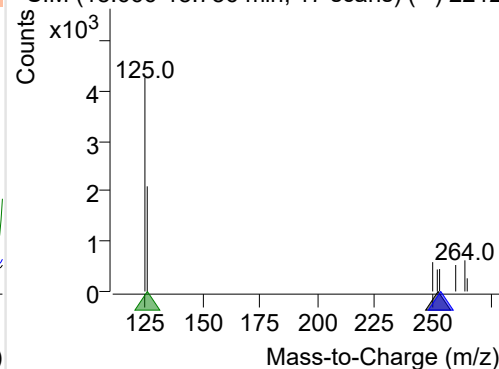
Benzo(a)pyrene

+ Selected Ion (252.0) 221208-PAHs-018.D

252.0, 253.0, 126.0

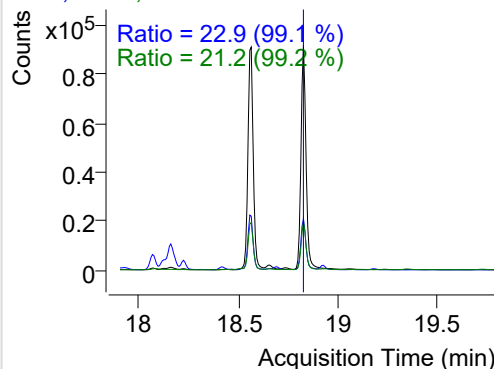
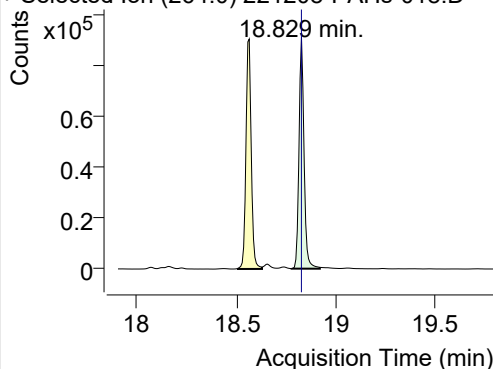


+ SIM (18.666-18.786 min, 17 scans) (**) 2212

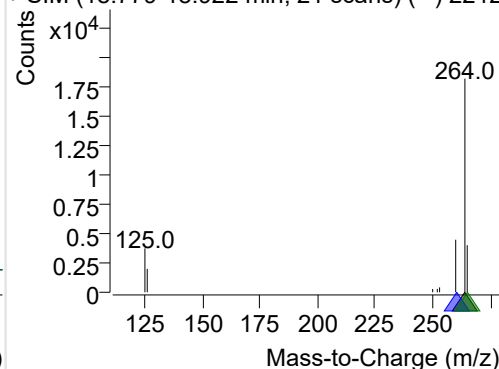
**IS-D12-Perylene**

+ Selected Ion (264.0) 221208-PAHs-018.D

264.0, 260.0, 265.0

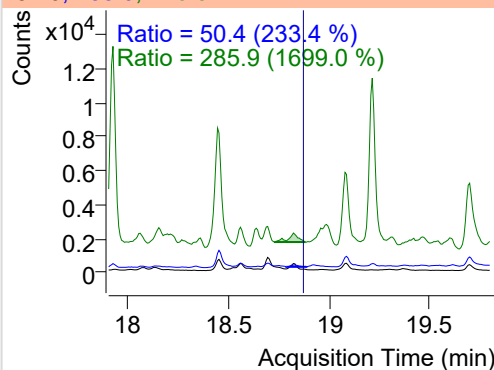
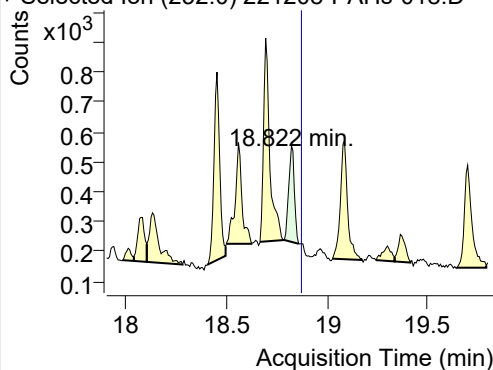


+ SIM (18.779-18.922 min, 21 scans) (**) 2212

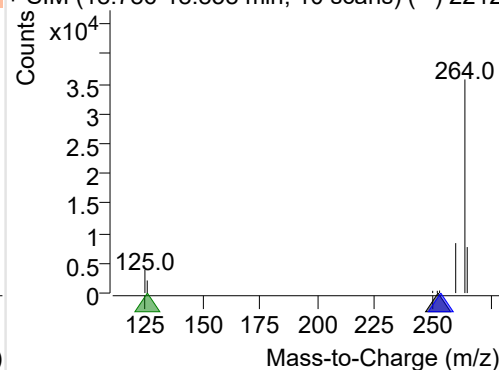
**Perylene**

+ Selected Ion (252.0) 221208-PAHs-018.D

252.0, 253.0, 126.0

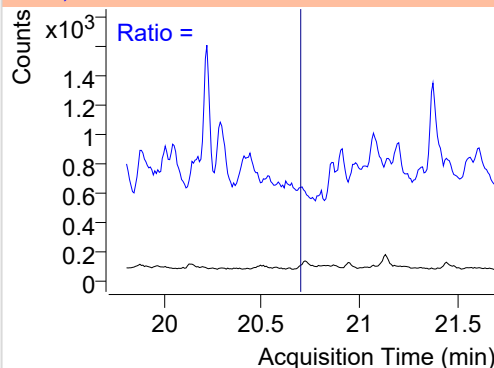
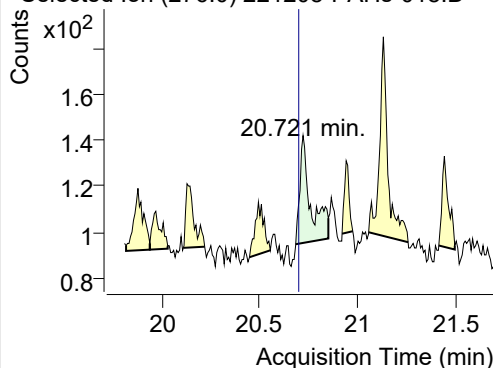


+ SIM (18.786-18.858 min, 10 scans) (**) 2212

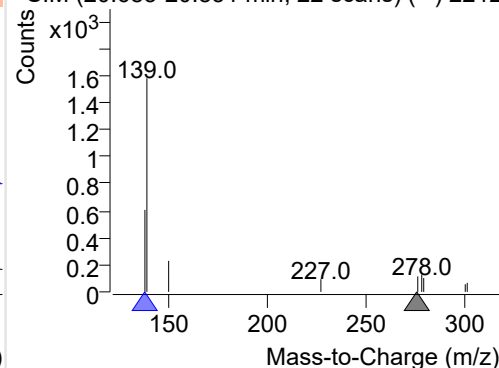
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 221208-PAHs-018.D

276.0, 138.0



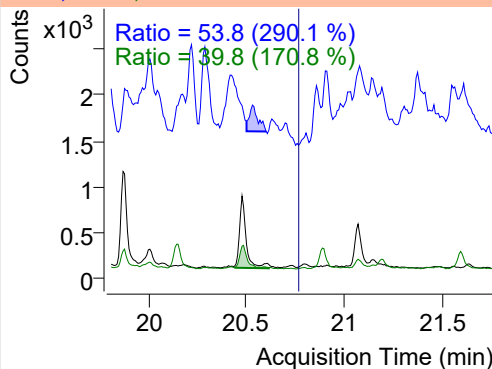
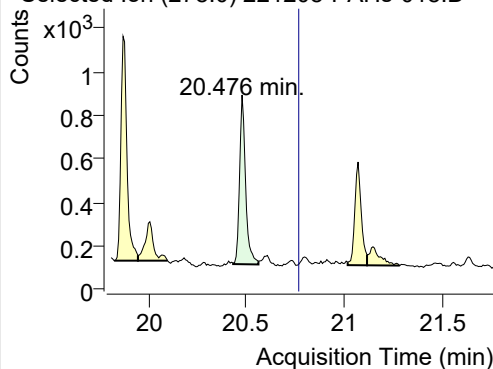
+ SIM (20.683-20.851 min, 22 scans) (**) 2212



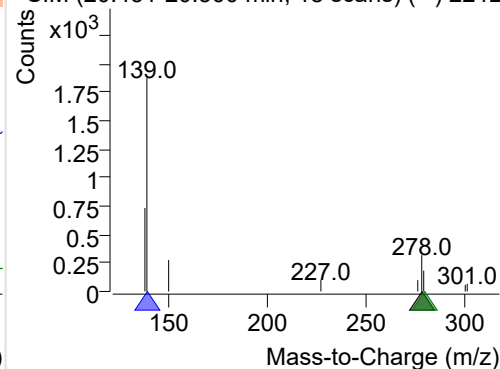
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 221208-PAHs-018.D

278.0, 139.0, 279.0

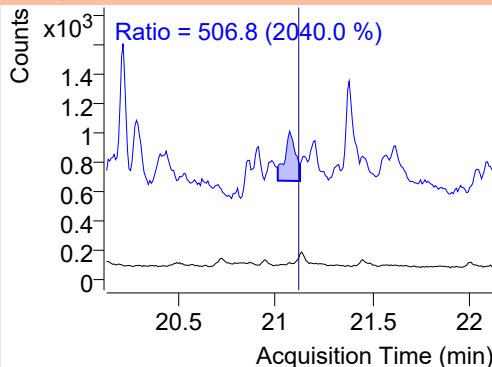
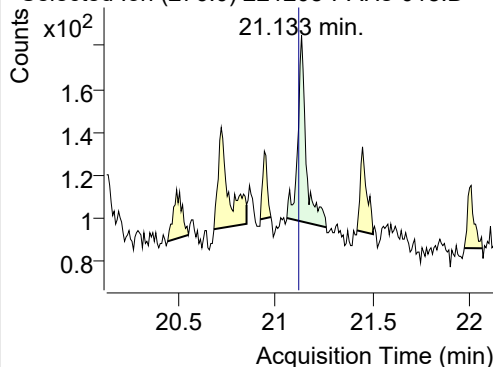


+ SIM (20.431-20.560 min, 18 scans) (**) 2212

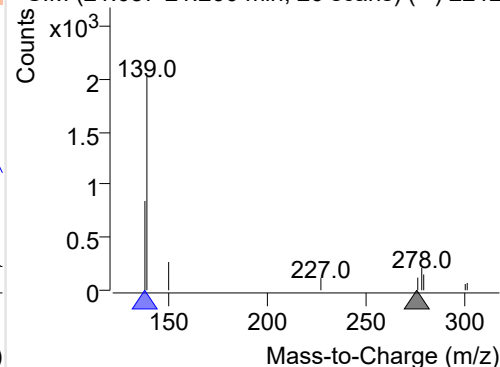
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 221208-PAHs-018.D

276.0, 138.0

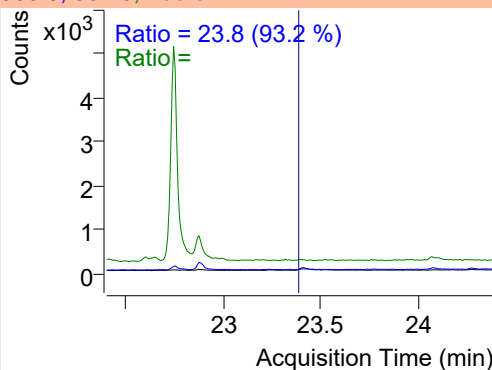
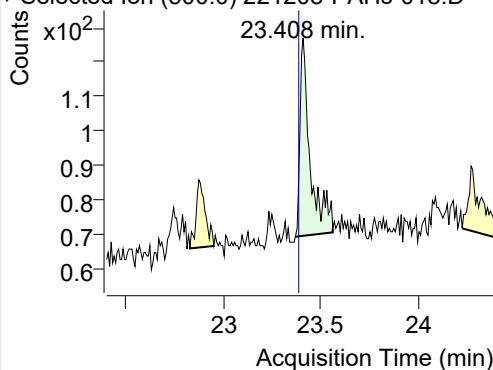


+ SIM (21.057-21.260 min, 26 scans) (**) 2212

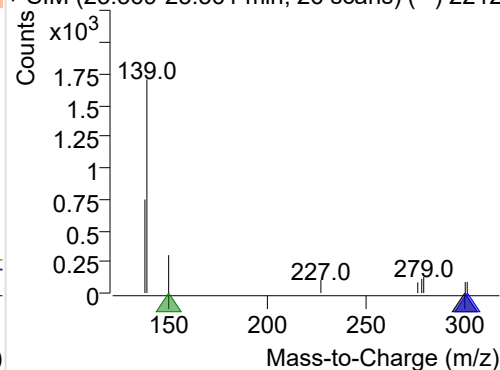
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-018.D

300.0, 301.0, 150.0



+ SIM (23.369-23.561 min, 26 scans) (**) 2212



Quantitative Analysis Sample Based Report

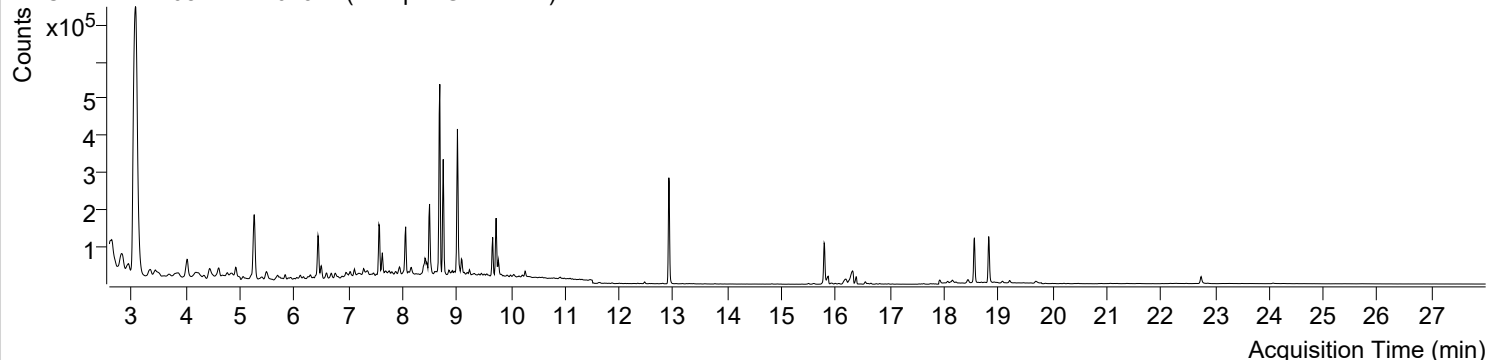


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 2:56:41	Data File	221208-PAHs-019.D
Type	Sample	Name	Sample-Gas-1114
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

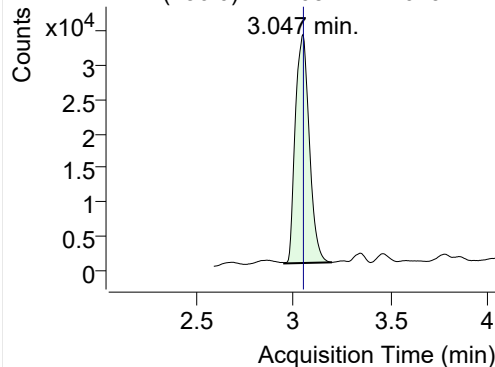
+ TIC SIM 221208-PAHs-019.D (Sample-Gas-1114)



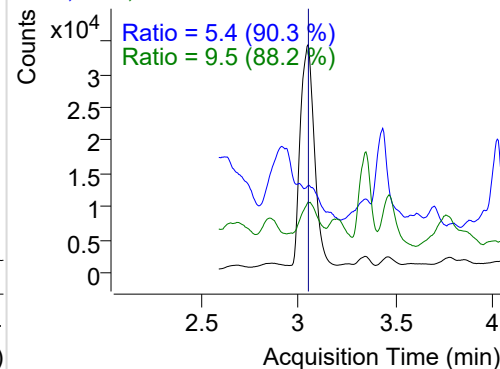
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.047	136.0	167784	33505.93	ND ng/ml	9.5
Naphthalene	3.074	128.0	2885607	560596.27	ND ng/ml	13.5
Acenaphthylene	6.108	152.0	14318	6776.44	ND ng/ml	17.5
IS-D10-Acenaphthene	6.439	164.0	113620	55171.62	ND ng/ml	92.4
Acenaphthene	6.505	154.0	18397	8846.09	ND ng/ml	98.0
LSS-D10-Fluorene	7.575	176.0	110354	59011.00	ND ng/ml	90.9
Fluorene	7.627	166.0	48752	27891.34	ND ng/ml	104.6
IS-D10-Phenanthrene	9.727	188.0	193907	124758.09	ND ng/ml	16.3
Phenanthrene	9.769	178.0	42909	26568.84	ND ng/ml	21.6
Anthracene	9.864	178.0	2201	1332.06	ND ng/ml	15.8
Fluoranthene	12.472	202.0	5504	3333.88	ND ng/ml	15.1
LSS-D10-Pyrene	12.917	212.0	336588	210013.05	ND ng/ml	18.1
Pyrene	12.954	202.0	5166	2897.73	ND ng/ml	15.6
Benz(a)anthracene	15.784	228.0	693	260.00	ND ng/ml	40.5
IS-D12-Chrysene	15.784	240.0	150502	81652.27	ND ng/ml	19.5
Chrysene	15.860	228.0	1255	454.00	ND ng/ml	31.8
Benzo(b)fluoranthene	18.068	252.0	232	101.86	ND ng/ml	36.8
Benzo(k)fluoranthene	18.132	252.0	282	96.76	ND ng/ml	49.8
SS-D12-Benzo(e)pyrene	18.559	264.0	151205	82913.83	ND ng/ml	24.4
Benzo(e)pyrene	18.552	252.0	1040	336.04	ND ng/ml	26.4
Benzo(a)pyrene	18.694	252.0	753	223.80	ND ng/ml	26.0
IS-D12-Perylene	18.822	264.0	159471	85619.59	ND ng/ml	22.7
Perylene	18.815	252.0	841	339.59	ND ng/ml	17.0
Indeno(1,2,3-c,d)pyrene	20.728	276.0	90	21.65	ND ng/ml	105.4
Dibenz(a,h)anthracene	20.797	278.0	124	29.86	ND ng/ml	
Benzo(g,h,i)perylene	21.133	276.0	175	46.93	ND ng/ml	113.0
Coronene	23.408	300.0	122	42.14	ND ng/ml	

IS-D8-Naphthalene

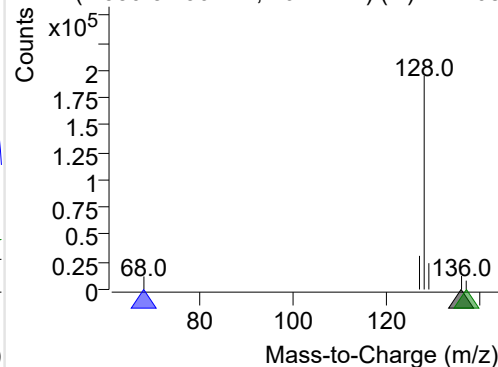
+ Selected Ion (136.0) 221208-PAHs-019.D



136.0, 68.0, 137.0

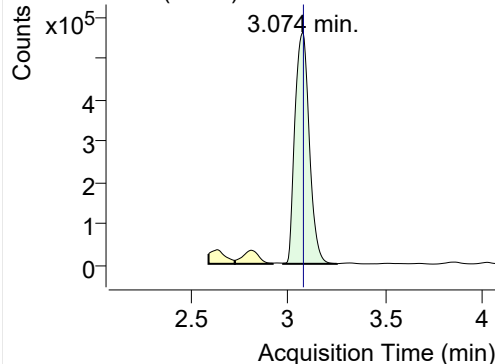


+ SIM (2.950-3.196 min, 46 scans) (**) 221208

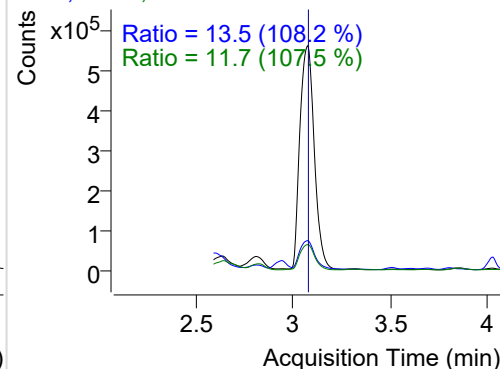


Naphthalene

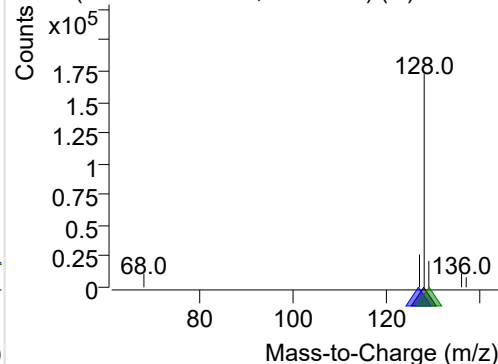
+ Selected Ion (128.0) 221208-PAHs-019.D



128.0, 127.0, 129.0

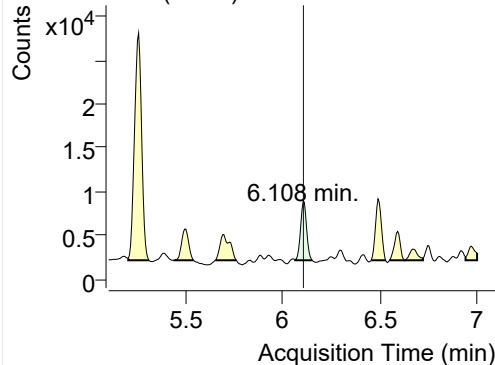


+ SIM (2.971-3.248 min, 52 scans) (**) 221208

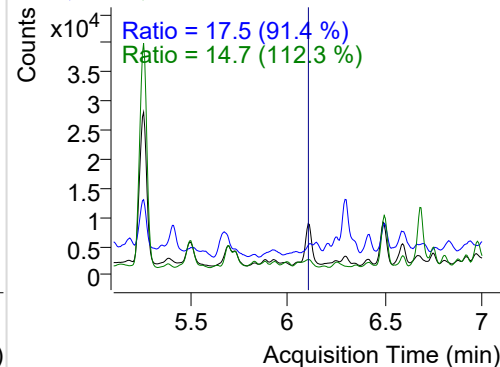


Acenaphthylene

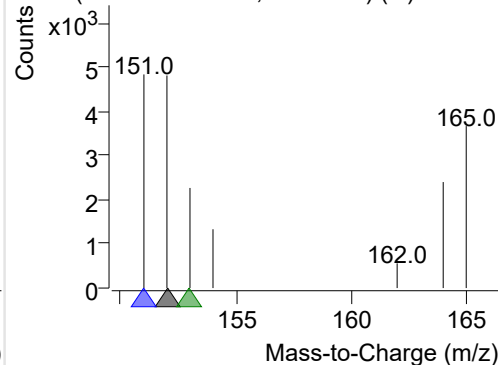
+ Selected Ion (152.0) 221208-PAHs-019.D



152.0, 151.0, 153.0

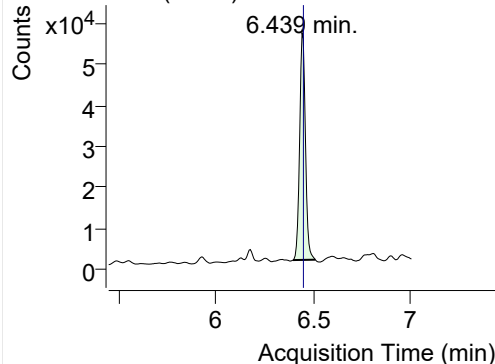


+ SIM (6.067-6.154 min, 15 scans) (**) 221208

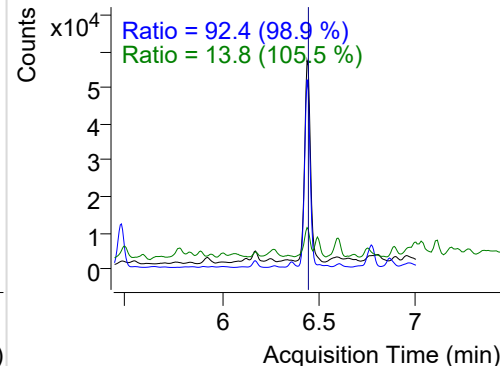


IS-D10-Acenaphthene

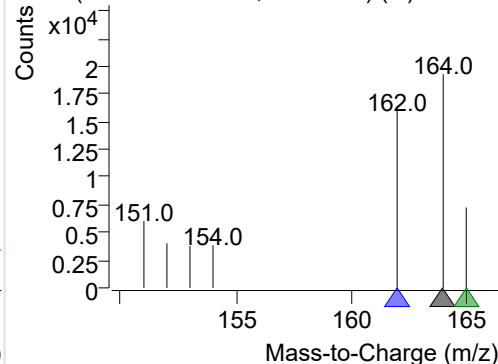
+ Selected Ion (164.0) 221208-PAHs-019.D



164.0, 162.0, 165.0

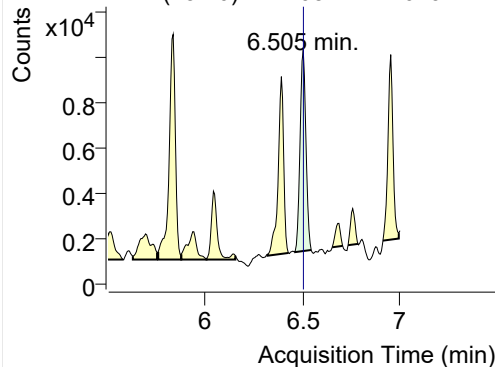


+ SIM (6.393-6.508 min, 19 scans) (**) 221208

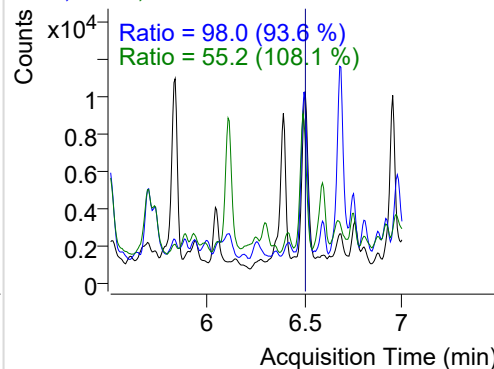


Acenaphthene

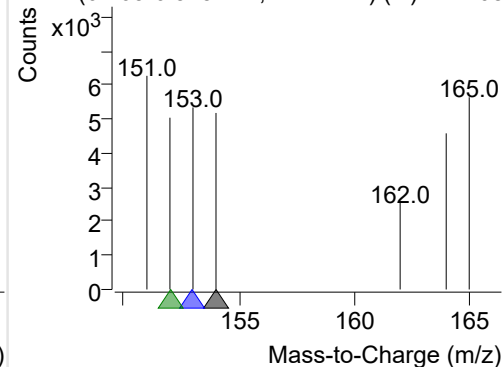
+ Selected Ion (154.0) 221208-PAHs-019.D



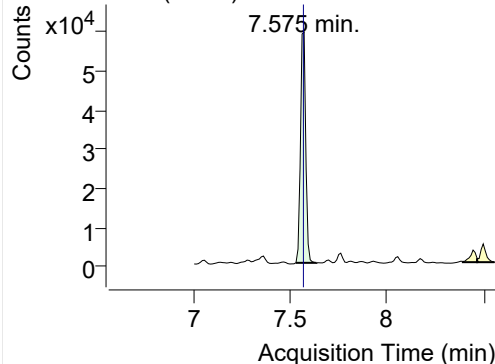
154.0, 153.0, 152.0



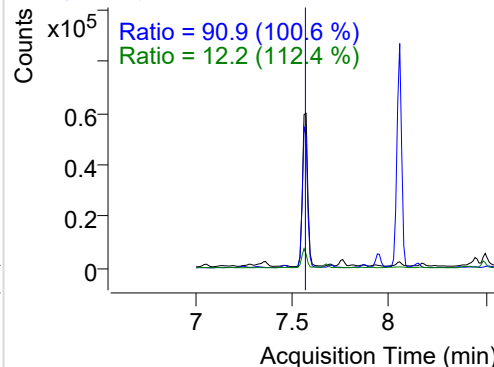
+ SIM (6.463-6.545 min, 14 scans) (**) 221208

**LSS-D10-Fluorene**

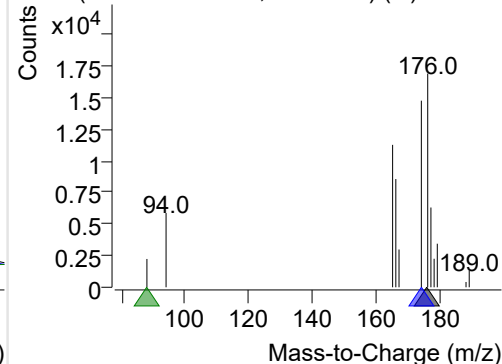
+ Selected Ion (176.0) 221208-PAHs-019.D



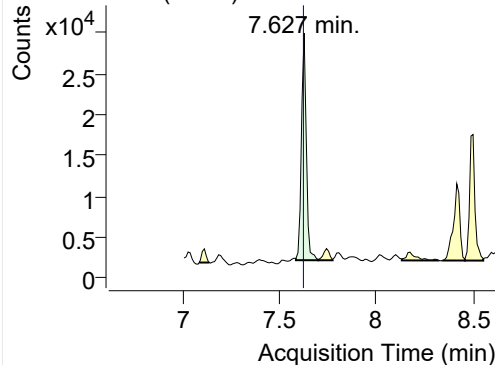
176.0, 174.0, 88.0



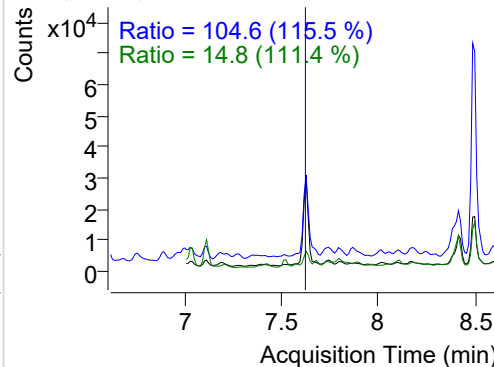
+ SIM (7.532-7.638 min, 11 scans) (**) 221208

**Fluorene**

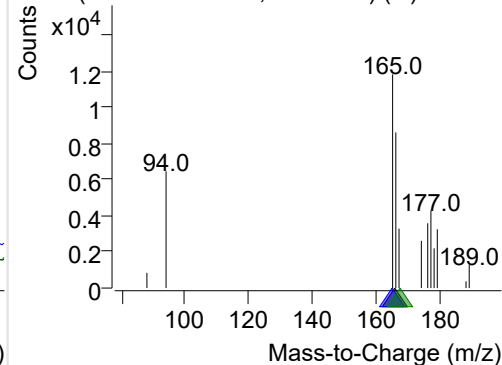
+ Selected Ion (166.0) 221208-PAHs-019.D



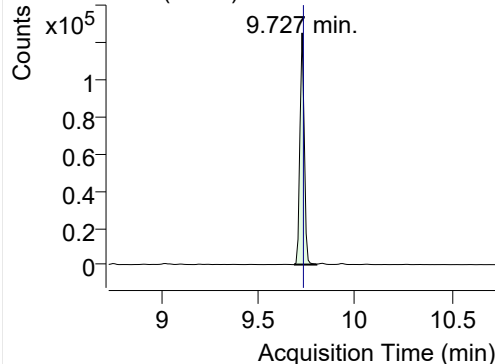
166.0, 165.0, 167.0



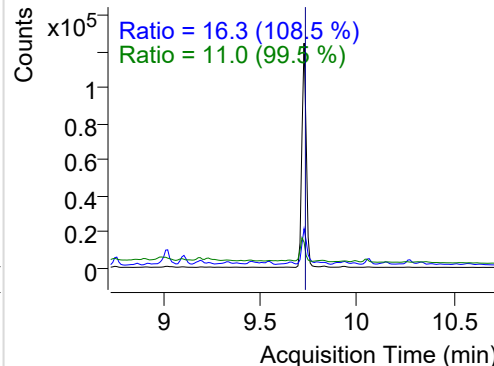
+ SIM (7.585-7.701 min, 12 scans) (**) 221208

**IS-D10-Phenanthrene**

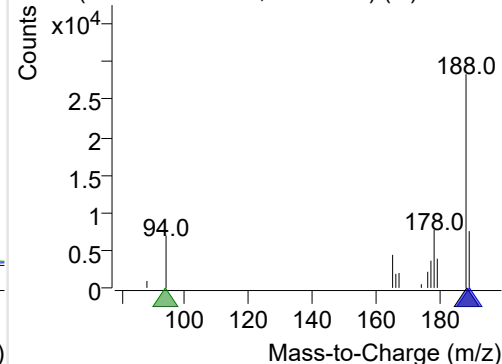
+ Selected Ion (188.0) 221208-PAHs-019.D



188.0, 189.0, 94.0

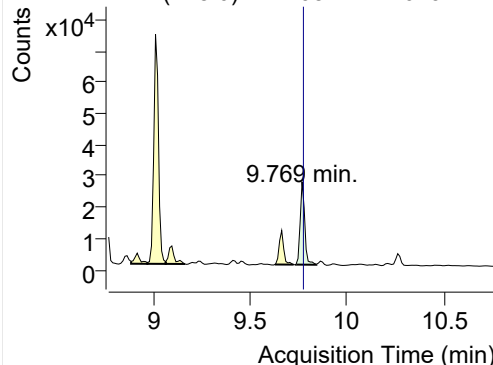


+ SIM (9.686-9.801 min, 11 scans) (**) 221208

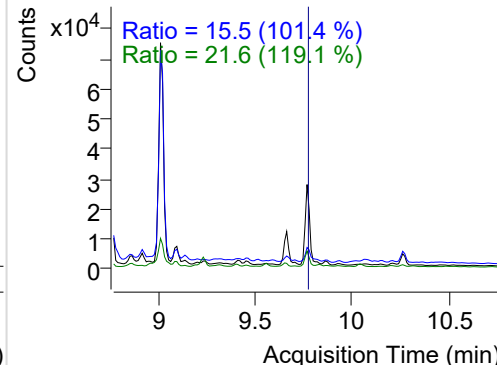


Phenanthrene

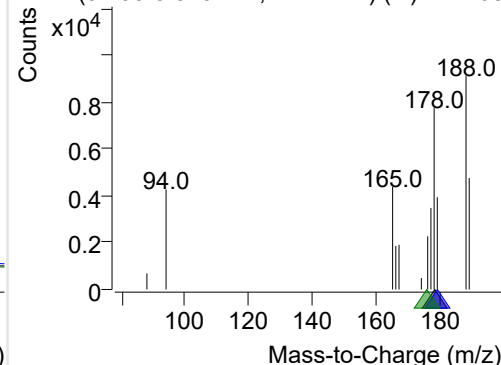
+ Selected Ion (178.0) 221208-PAHs-019.D



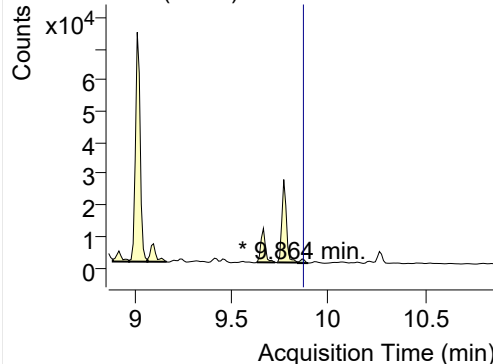
178.0, 179.0, 176.0



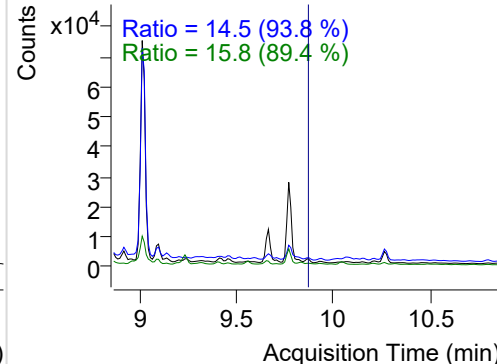
+ SIM (9.738-9.843 min, 11 scans) (**) 221208

**Anthracene**

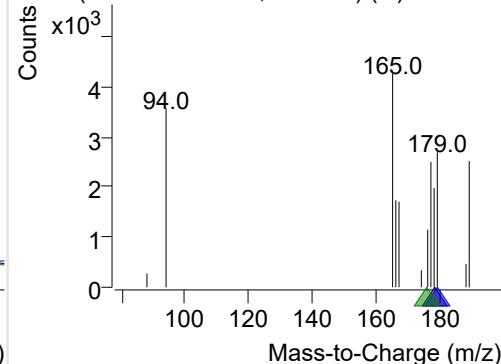
+ Selected Ion (178.0) 221208-PAHs-019.D



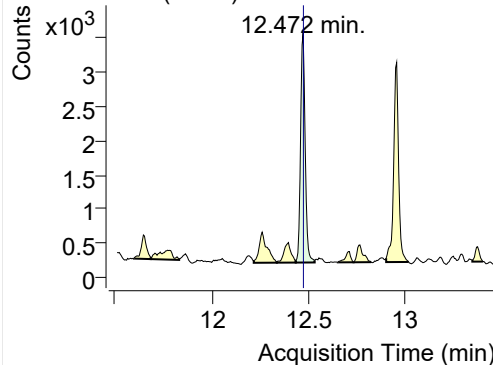
178.0, 179.0, 176.0



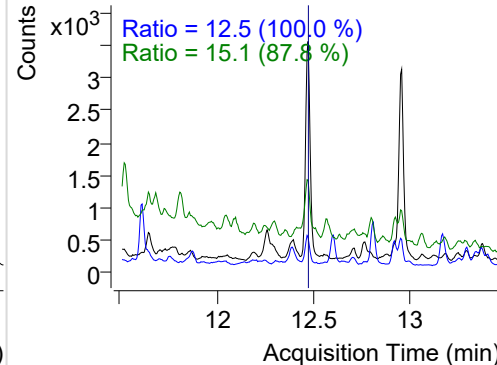
+ SIM (9.843-9.895 min, 6 scans) (**) 221208-I

**Fluoranthene**

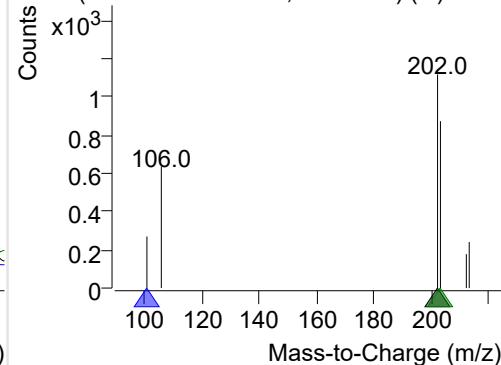
+ Selected Ion (202.0) 221208-PAHs-019.D



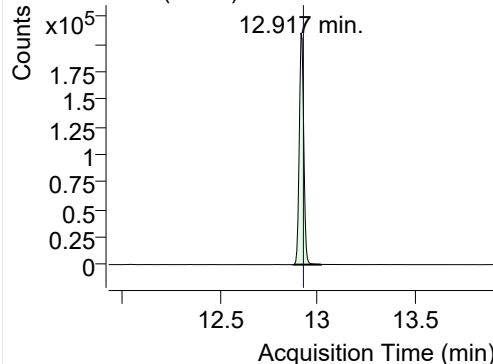
202.0, 101.0, 203.0



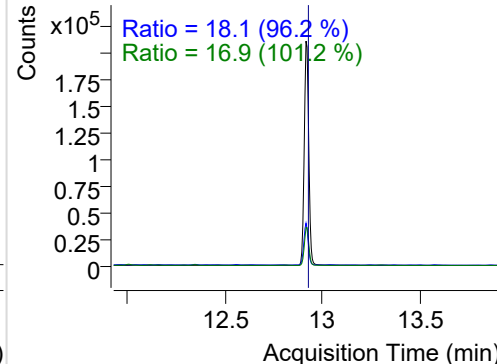
+ SIM (12.434-12.532 min, 19 scans) (**) 2212

**LSS-D10-Pyrene**

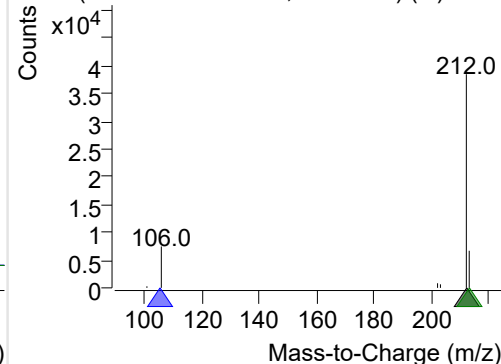
+ Selected Ion (212.0) 221208-PAHs-019.D



212.0, 106.0, 213.0

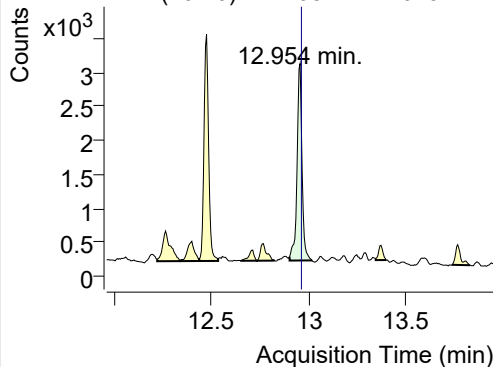


+ SIM (12.879-13.020 min, 27 scans) (**) 2212

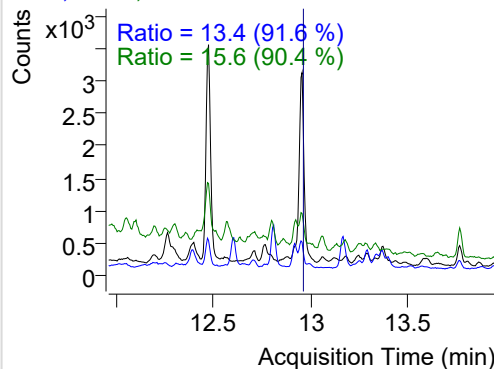


Pyrene

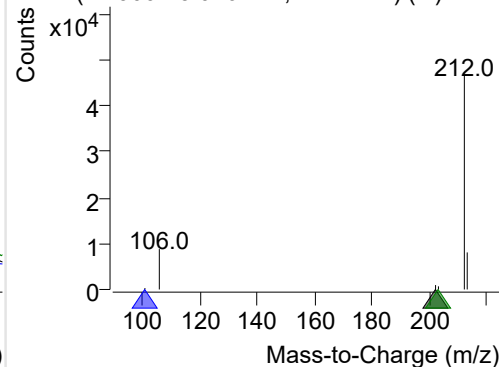
+ Selected Ion (202.0) 221208-PAHs-019.D



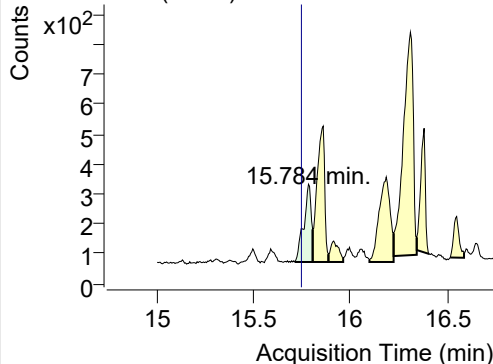
202.0, 101.0, 203.0



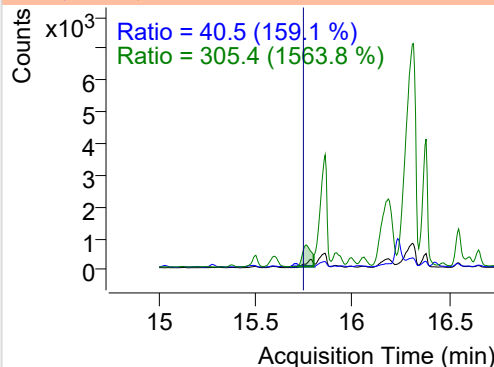
+ SIM (12.900-13.016 min, 22 scans) (**) 2212

**Benz(a)anthracene**

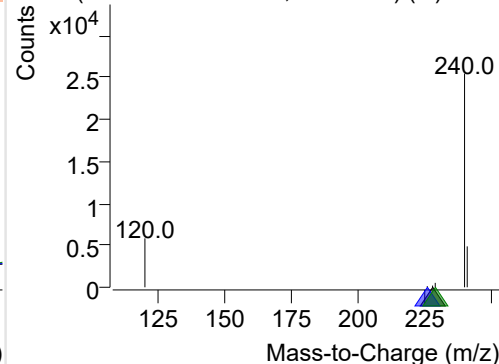
+ Selected Ion (228.0) 221208-PAHs-019.D



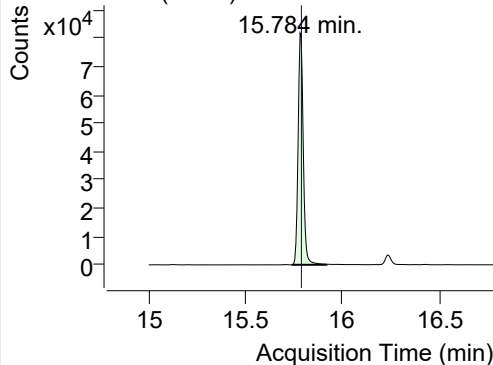
228.0, 226.0, 229.0



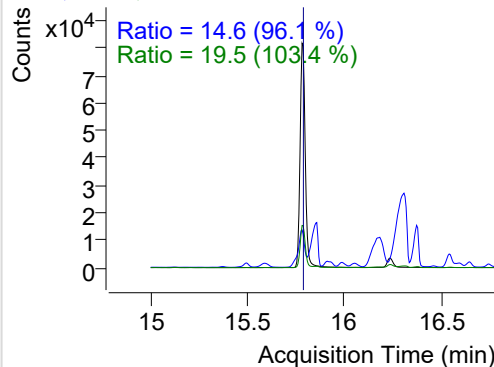
+ SIM (15.714-15.806 min, 17 scans) (**) 2212

**IS-D12-Chrysene**

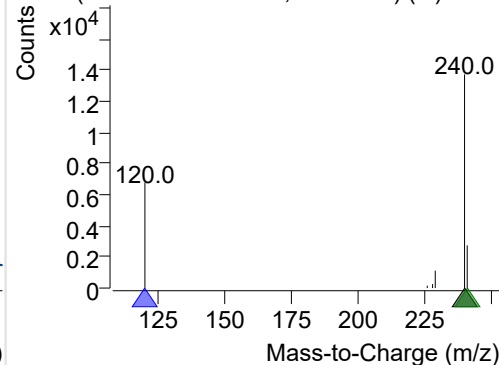
+ Selected Ion (240.0) 221208-PAHs-019.D



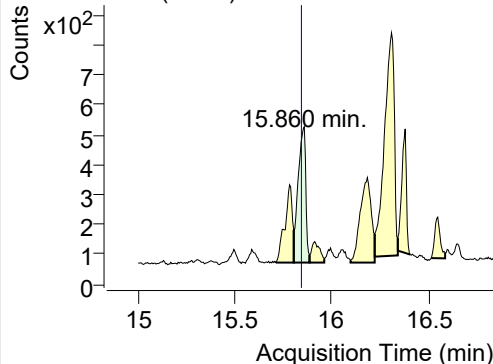
240.0, 120.0, 241.0



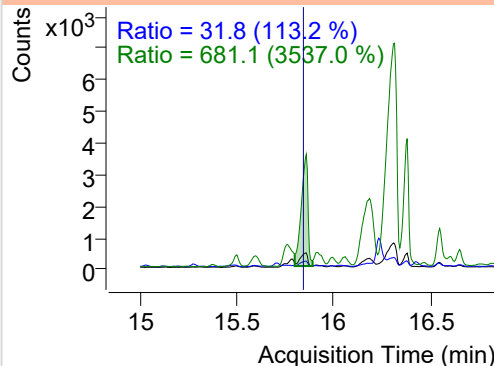
+ SIM (15.741-15.920 min, 34 scans) (**) 2212

**Chrysene**

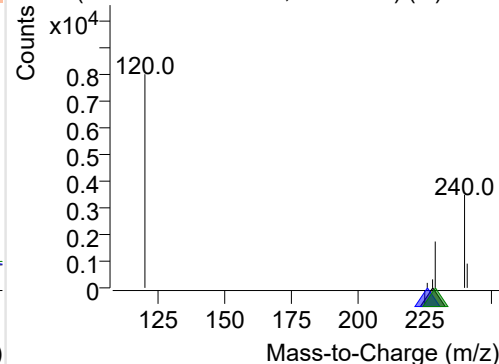
+ Selected Ion (228.0) 221208-PAHs-019.D



228.0, 226.0, 229.0



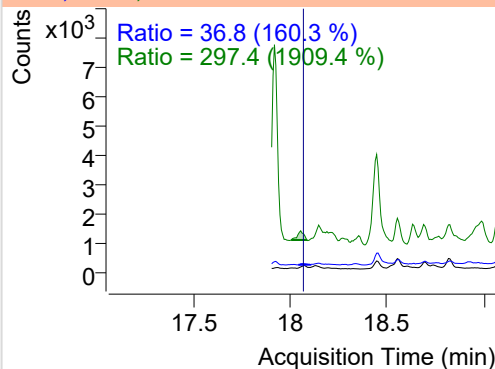
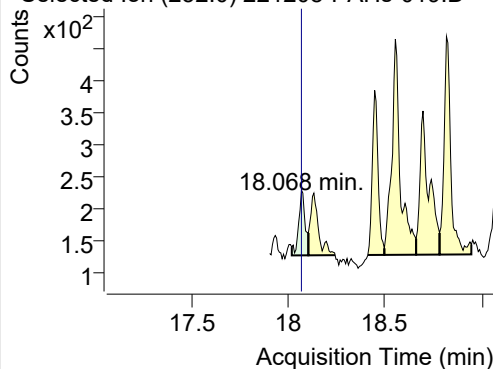
+ SIM (15.806-15.887 min, 16 scans) (**) 2212



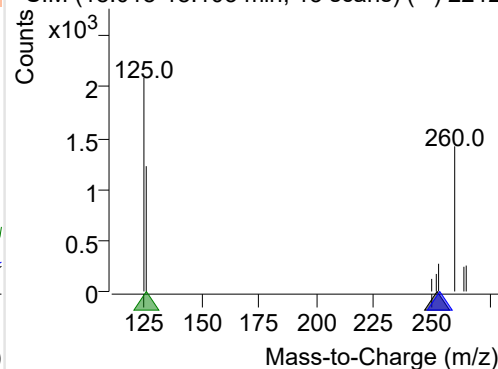
Benzo(b)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-019.D

252.0, 253.0, 126.0

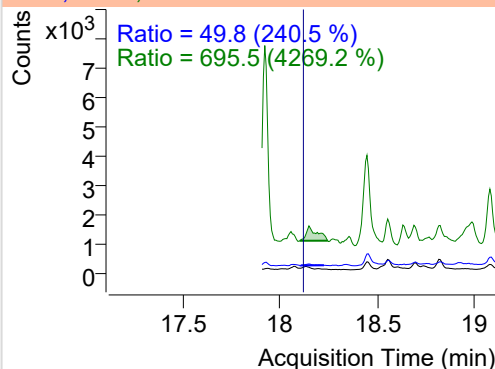
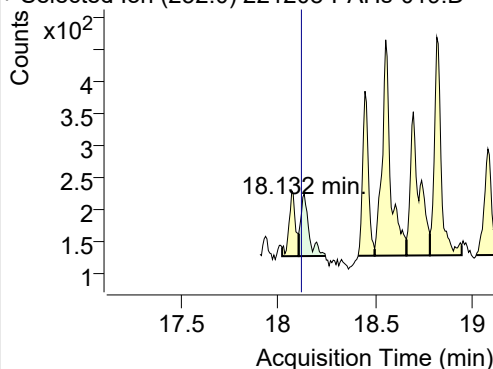


+ SIM (18.018-18.103 min, 13 scans) (**) 2212

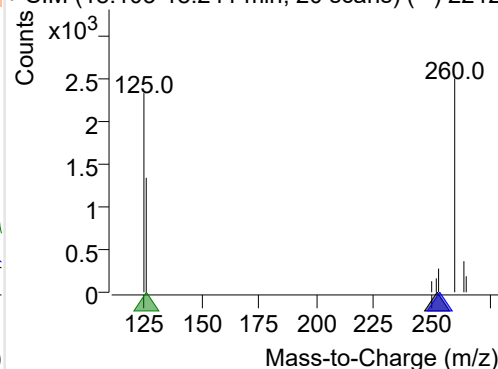
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-019.D

252.0, 253.0, 126.0

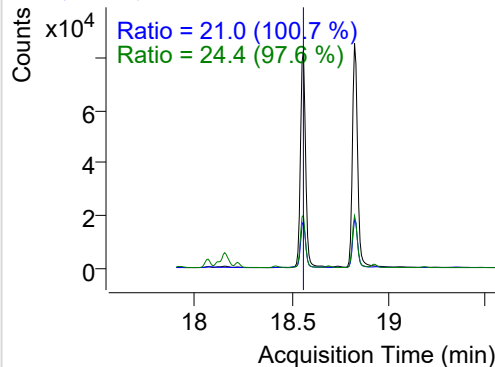
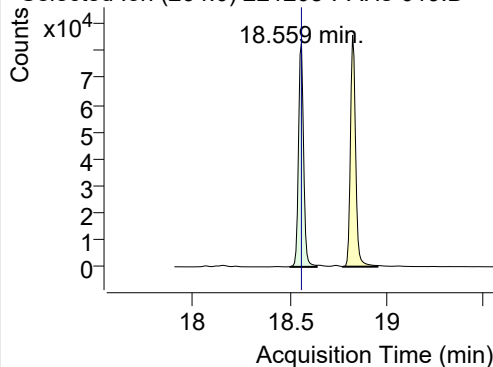


+ SIM (18.103-18.241 min, 20 scans) (**) 2212

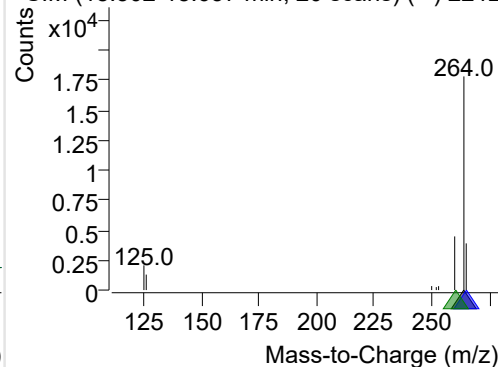
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-019.D

264.0, 265.0, 260.0

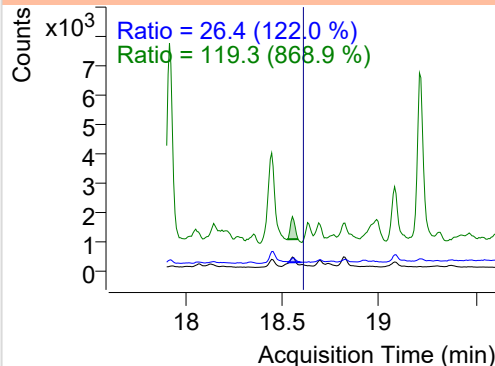
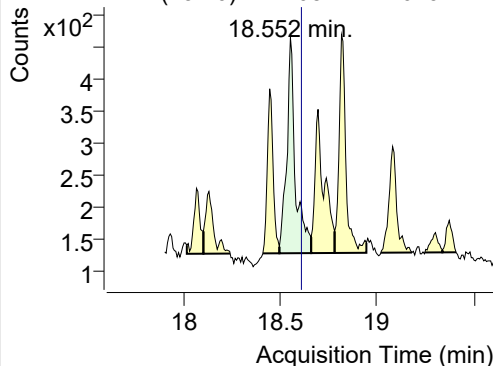


+ SIM (18.502-18.637 min, 20 scans) (**) 2212

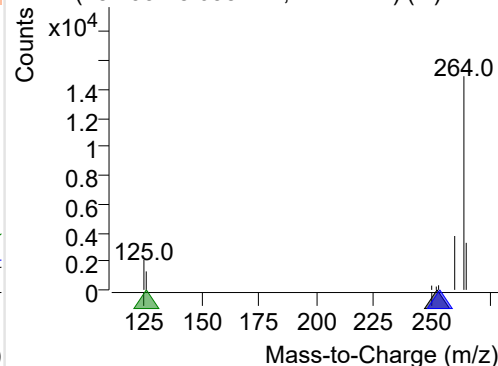
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-019.D

252.0, 253.0, 126.0



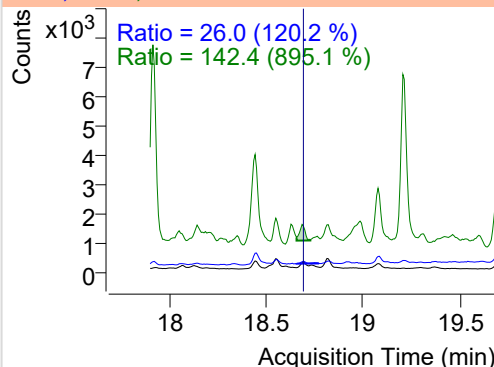
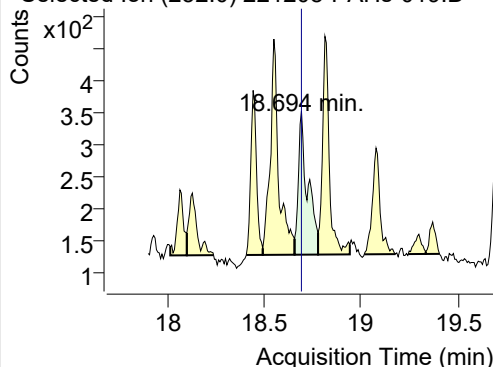
+ SIM (18.495-18.658 min, 24 scans) (**) 2212



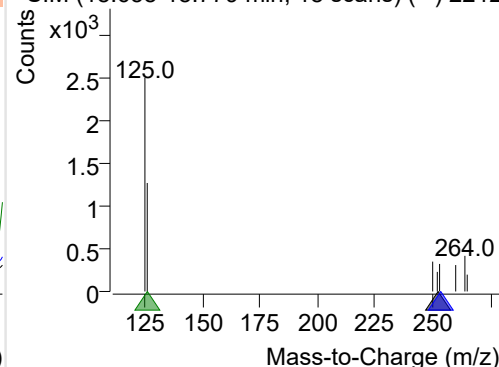
Benzo(a)pyrene

+ Selected Ion (252.0) 221208-PAHs-019.D

252.0, 253.0, 126.0

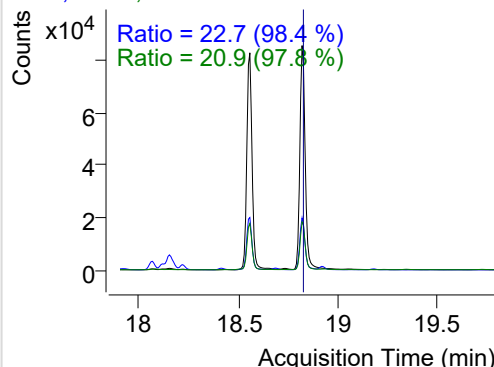
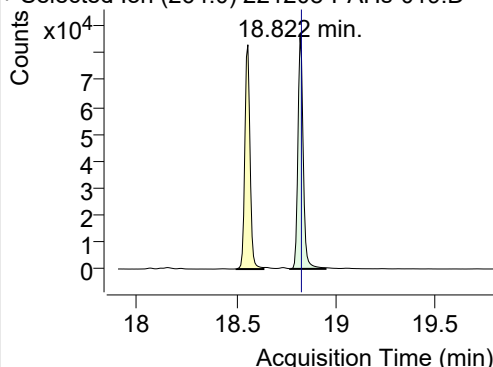


+ SIM (18.658-18.779 min, 18 scans) (**) 2212

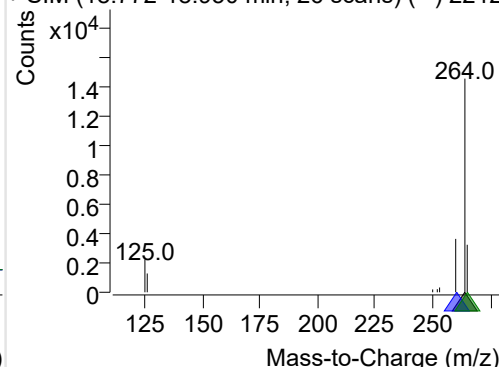
**IS-D12-Perylene**

+ Selected Ion (264.0) 221208-PAHs-019.D

264.0, 260.0, 265.0

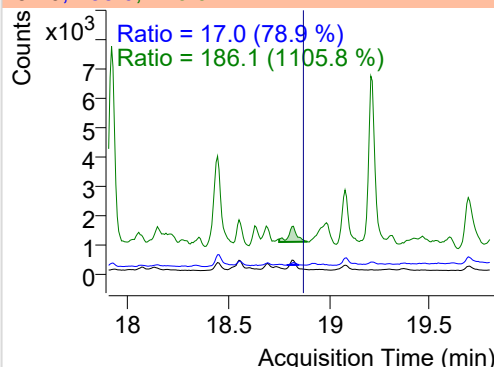
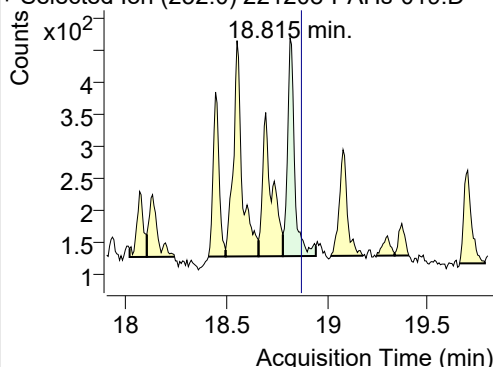


+ SIM (18.772-18.950 min, 26 scans) (**) 2212

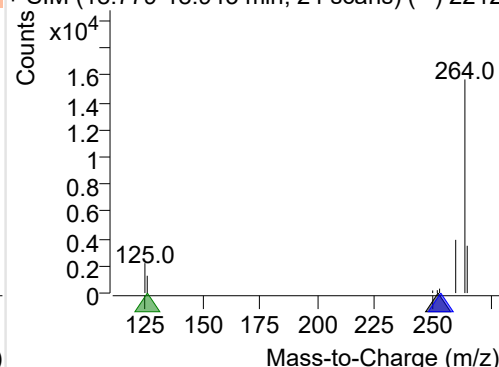
**Perylene**

+ Selected Ion (252.0) 221208-PAHs-019.D

252.0, 253.0, 126.0

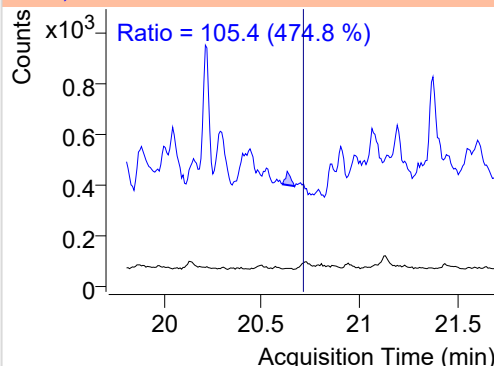
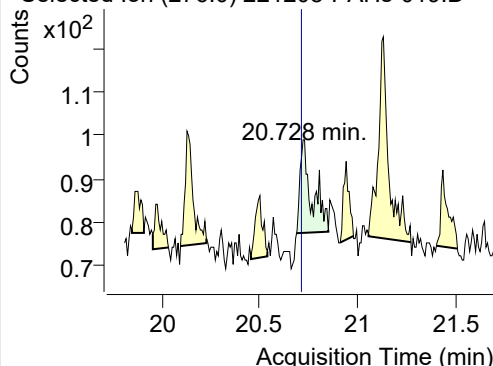


+ SIM (18.779-18.943 min, 24 scans) (**) 2212

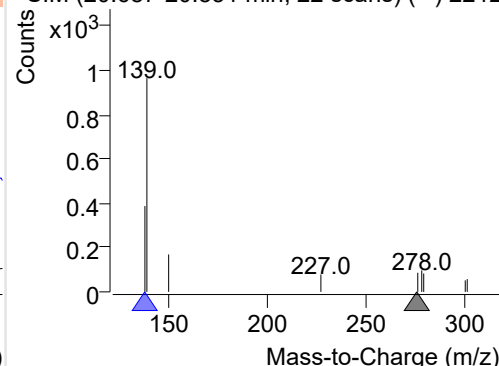
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 221208-PAHs-019.D

276.0, 138.0



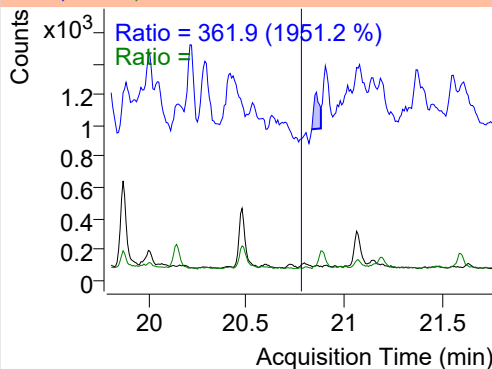
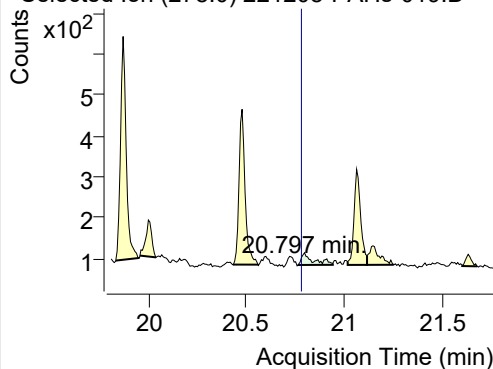
+ SIM (20.687-20.851 min, 22 scans) (**) 2212



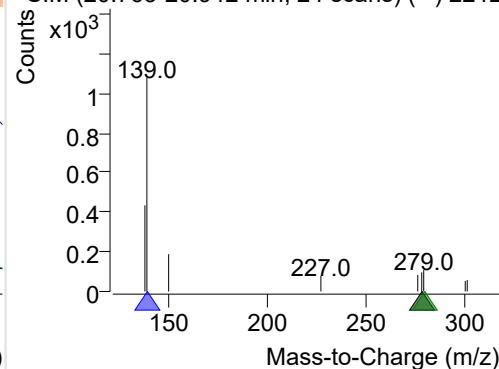
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 221208-PAHs-019.D

278.0, 139.0, 279.0

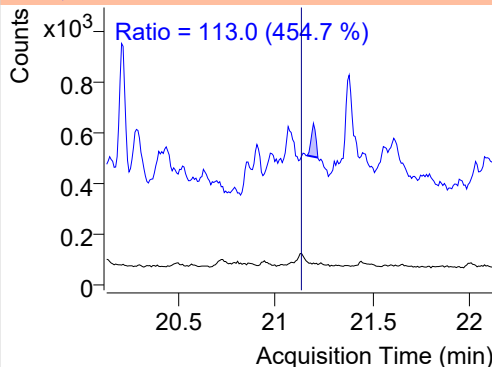
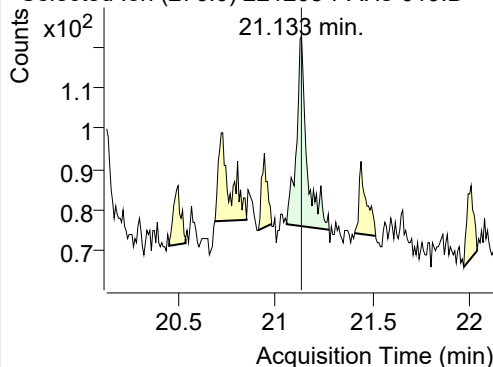


+ SIM (20.763-20.942 min, 24 scans) (**) 2212

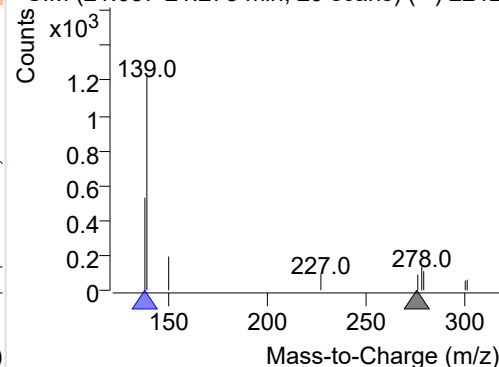
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 221208-PAHs-019.D

276.0, 138.0

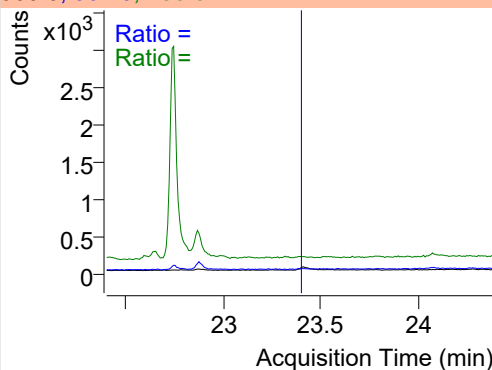
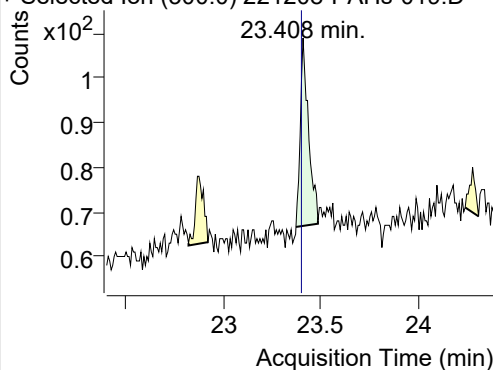


+ SIM (21.057-21.275 min, 29 scans) (**) 2212

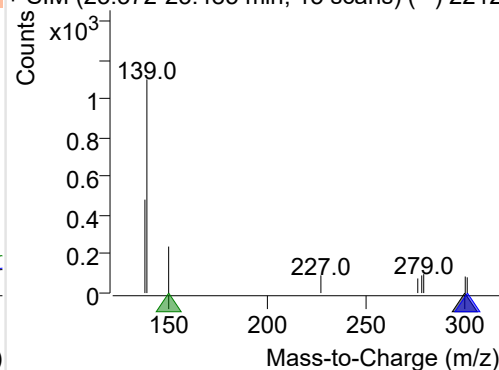
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-019.D

300.0, 301.0, 150.0



+ SIM (23.372-23.485 min, 15 scans) (**) 2212



Quantitative Analysis Sample Based Report

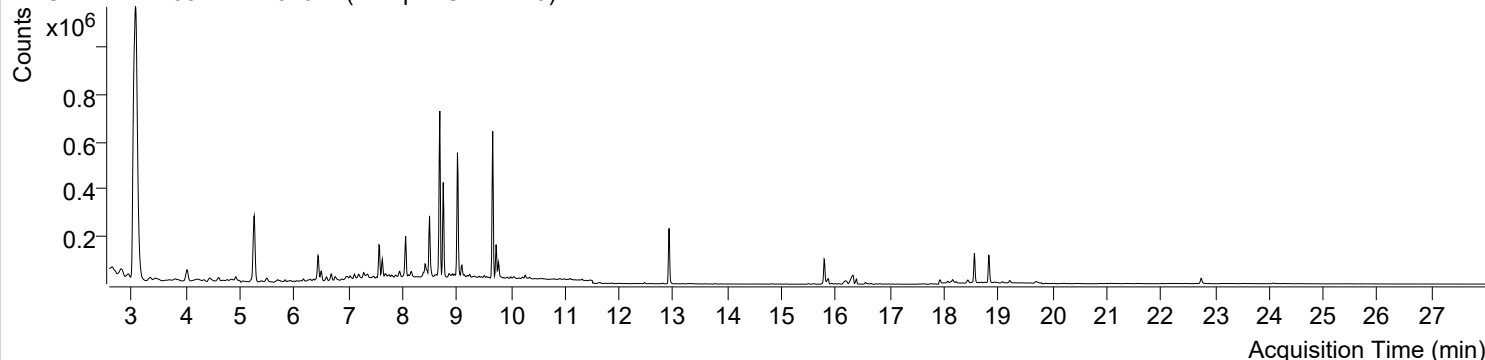


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 3:27:47	Data File	221208-PAHs-020.D
Type	Sample	Name	Sample-Gas-1119
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

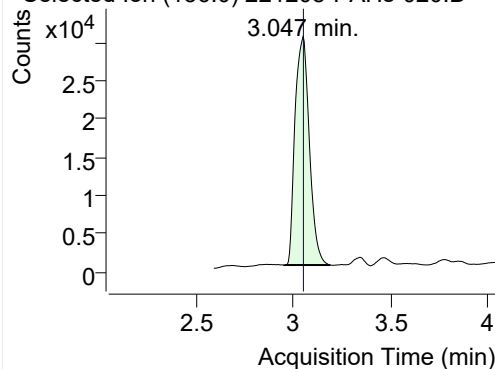
+ TIC SIM 221208-PAHs-020.D (Sample-Gas-1119)



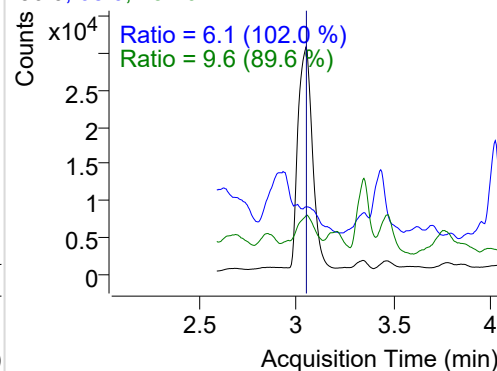
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.047	136.0	153239	29955.05	ND ng/ml	9.6
Naphthalene	3.074	128.0	4669009	904904.79	ND ng/ml	13.0
Acenaphthylene	6.114	152.0	3499	1810.02	ND ng/ml	146.1
IS-D10-Acenaphthene	6.440	164.0	109445	51392.67	ND ng/ml	91.7
Acenaphthene	6.505	154.0	20669	10162.92	ND ng/ml	118.1
LSS-D10-Fluorene	7.575	176.0	112367	59681.84	ND ng/ml	90.2
Fluorene	7.627	166.0	60379	35432.50	ND ng/ml	94.2
IS-D10-Phenanthrene	9.728	188.0	177995	111501.52	ND ng/ml	15.8
Phenanthrene	9.770	178.0	72907	43123.79	ND ng/ml	17.6
Anthracene	9.864	178.0	2315	1335.09	ND ng/ml	
Fluoranthene	12.472	202.0	5516	3363.77	ND ng/ml	15.2
LSS-D10-Pyrene	12.922	212.0	280896	173236.64	ND ng/ml	18.0
Pyrene	12.955	202.0	5503	2982.83	ND ng/ml	20.7
Benz(a)anthracene	15.784	228.0	706	250.16	ND ng/ml	44.2
IS-D12-Chrysene	15.784	240.0	140863	76956.80	ND ng/ml	18.8
Chrysene	15.860	228.0	1412	480.55	ND ng/ml	33.1
Benzo(b)fluoranthene	18.068	252.0	299	135.59	ND ng/ml	34.5
Benzo(k)fluoranthene	18.139	252.0	538	144.59	ND ng/ml	28.5
SS-D12-Benzo(e)pyrene	18.559	264.0	147271	85351.92	ND ng/ml	20.0
Benzo(e)pyrene	18.559	252.0	856	321.31	ND ng/ml	37.4
Benzo(a)pyrene	18.694	252.0	242	134.81	ND ng/ml	90.2
IS-D12-Perylene	18.822	264.0	148973	79838.55	ND ng/ml	22.9
Perylene	18.822	252.0	576	310.92	ND ng/ml	32.7
Indeno(1,2,3-c,d)pyrene	20.713	276.0	74	25.63	ND ng/ml	
Dibenz(a,h)anthracene	20.912	278.0	110	24.43	ND ng/ml	517.2
Benzo(g,h,i)perylene	21.133	276.0	235	67.45	ND ng/ml	811.9
Coronene	23.424	300.0	101	31.68	ND ng/ml	

IS-D8-Naphthalene

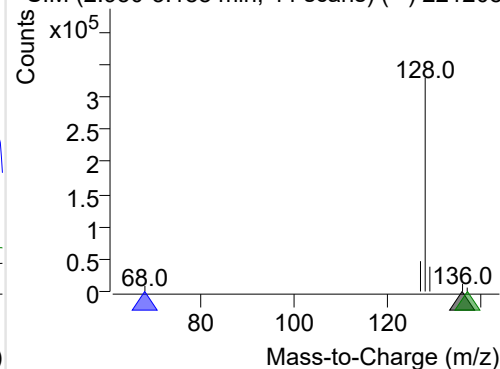
+ Selected Ion (136.0) 221208-PAHs-020.D



136.0, 68.0, 137.0

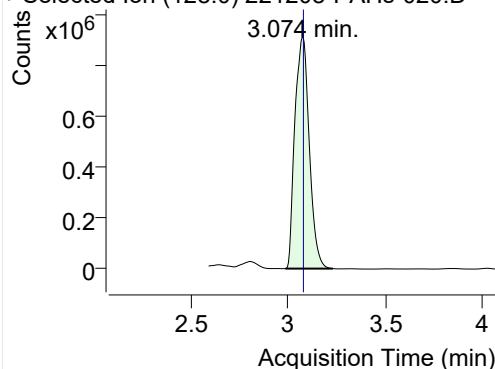


+ SIM (2.950-3.188 min, 44 scans) (**) 221208

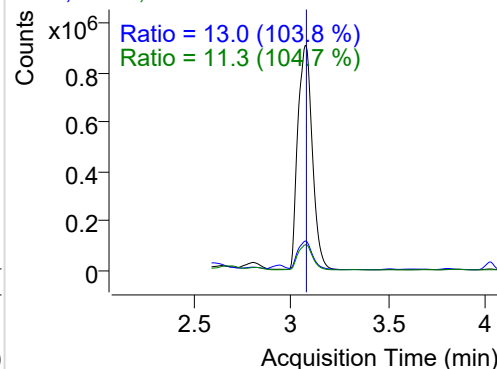


Naphthalene

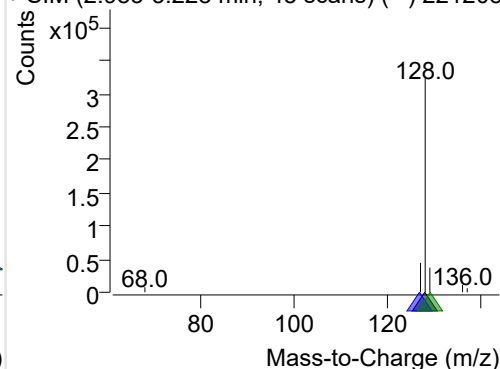
+ Selected Ion (128.0) 221208-PAHs-020.D



128.0, 127.0, 129.0

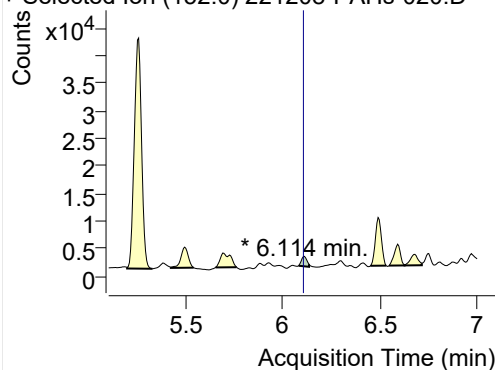


+ SIM (2.983-3.228 min, 45 scans) (**) 221208

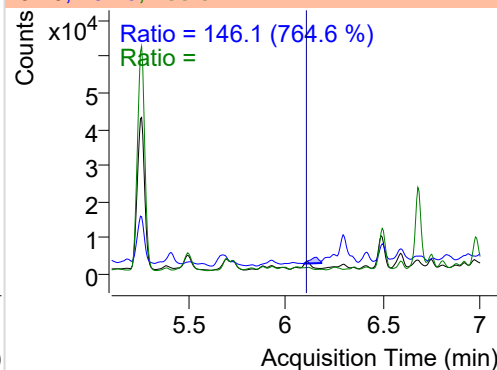


Acenaphthylene

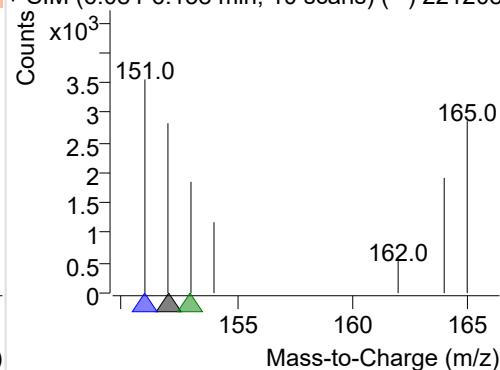
+ Selected Ion (152.0) 221208-PAHs-020.D



152.0, 151.0, 153.0

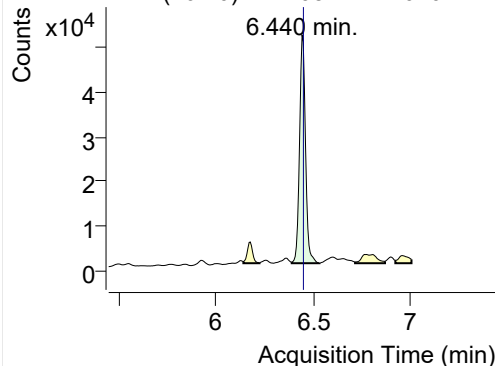


+ SIM (6.084-6.138 min, 10 scans) (**) 221208

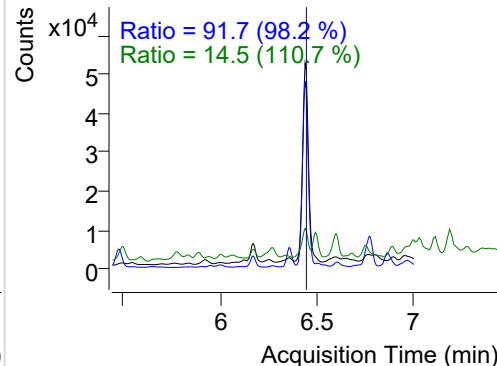


IS-D10-Acenaphthene

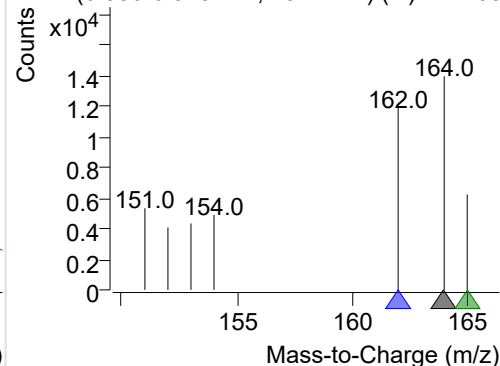
+ Selected Ion (164.0) 221208-PAHs-020.D



164.0, 162.0, 165.0

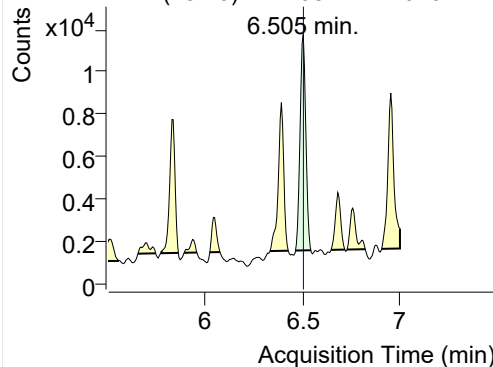


+ SIM (6.386-6.528 min, 25 scans) (**) 221208

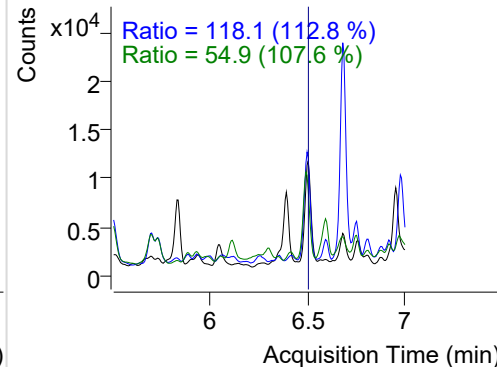


Acenaphthene

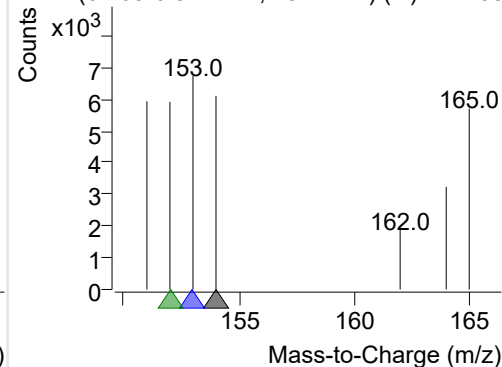
+ Selected Ion (154.0) 221208-PAHs-020.D



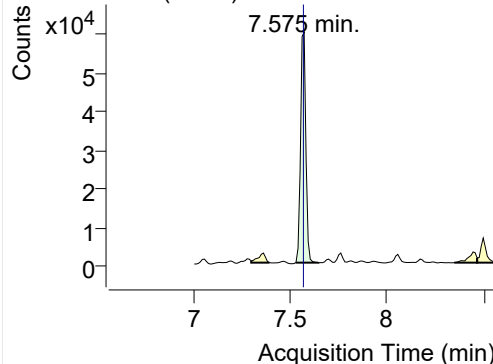
154.0, 153.0, 152.0



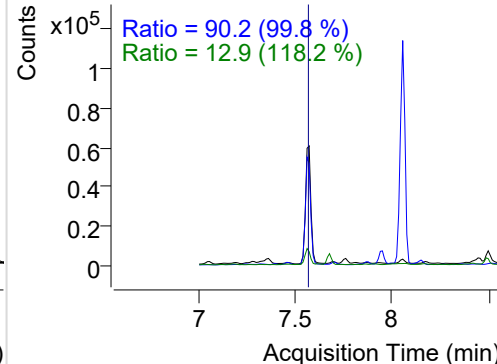
+ SIM (6.465-6.544 min, 13 scans) (**) 221208

**LSS-D10-Fluorene**

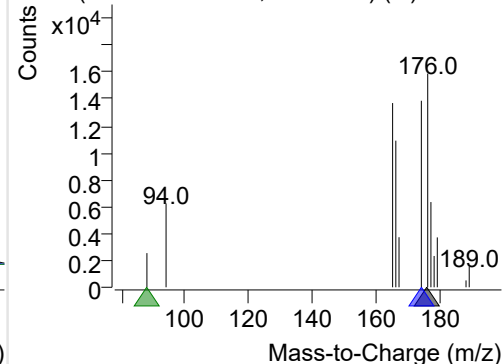
+ Selected Ion (176.0) 221208-PAHs-020.D



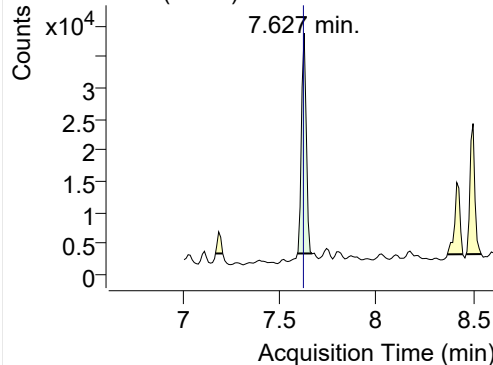
176.0, 174.0, 88.0



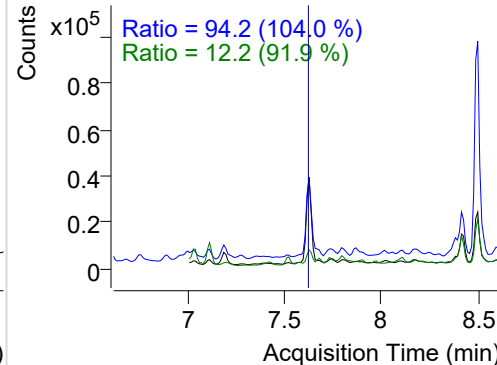
+ SIM (7.532-7.648 min, 12 scans) (**) 221208

**Fluorene**

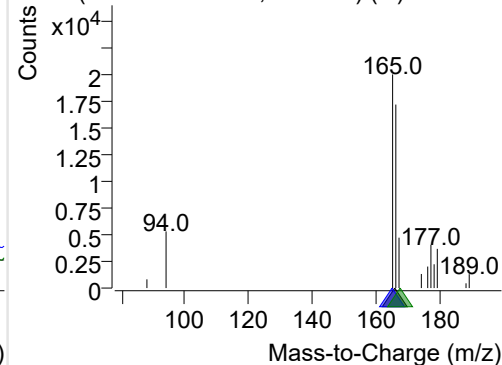
+ Selected Ion (166.0) 221208-PAHs-020.D



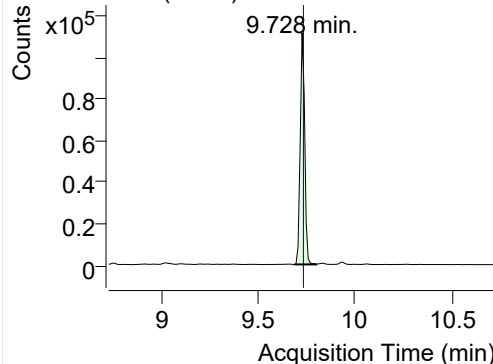
166.0, 165.0, 167.0



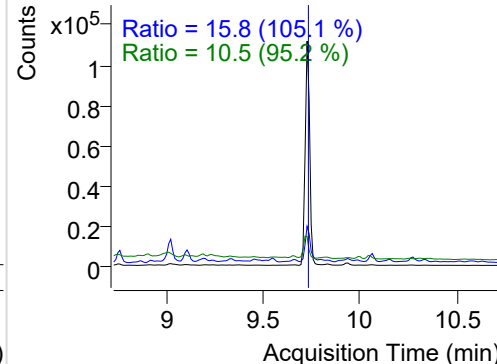
+ SIM (7.593-7.668 min, 7 scans) (**) 221208-

**IS-D10-Phenanthrene**

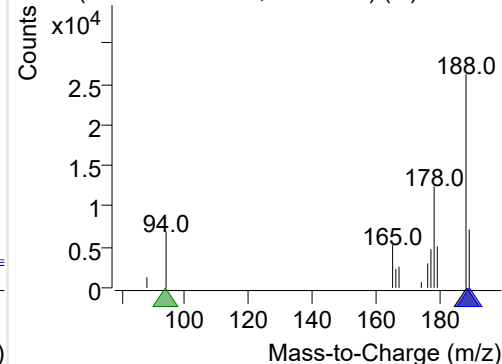
+ Selected Ion (188.0) 221208-PAHs-020.D



188.0, 189.0, 94.0

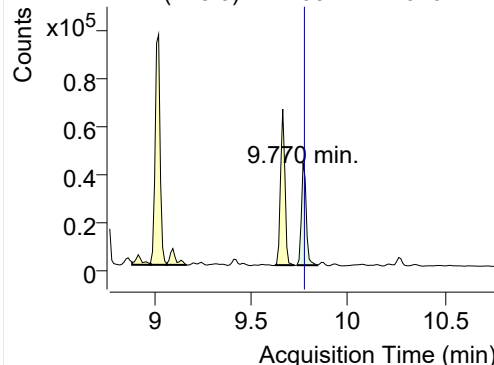


+ SIM (9.688-9.801 min, 11 scans) (**) 221208

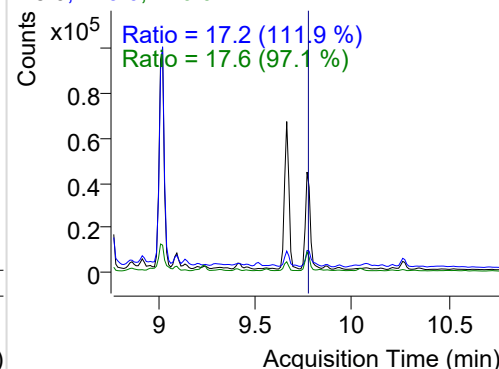


Phenanthrene

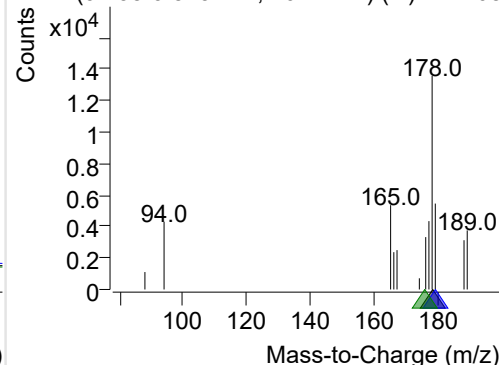
+ Selected Ion (178.0) 221208-PAHs-020.D



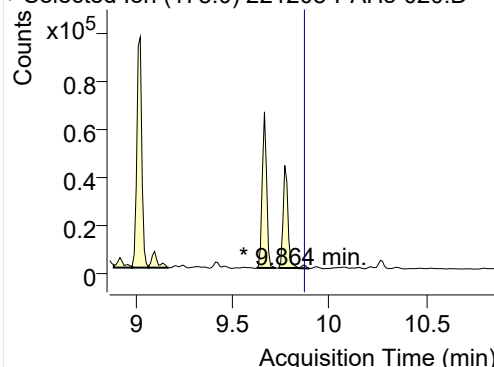
178.0, 179.0, 176.0



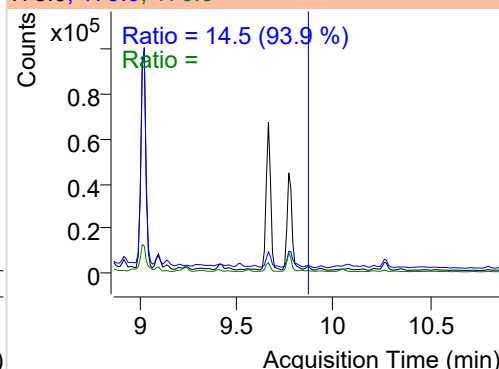
+ SIM (9.738-9.843 min, 10 scans) (**) 221208

**Anthracene**

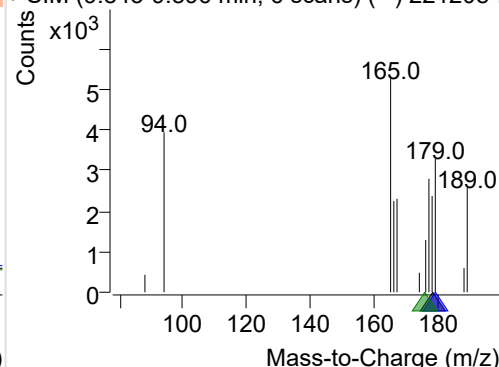
+ Selected Ion (178.0) 221208-PAHs-020.D



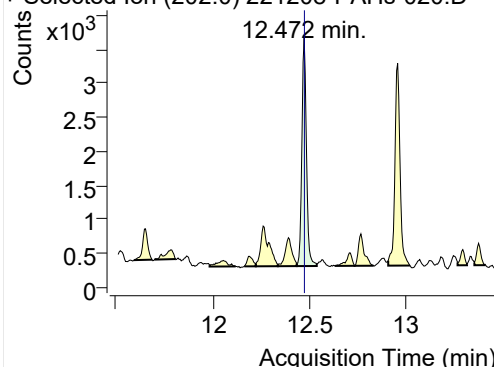
178.0, 179.0, 176.0



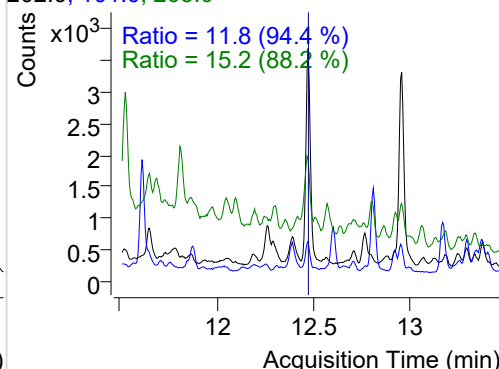
+ SIM (9.843-9.896 min, 6 scans) (**) 221208-I

**Fluoranthene**

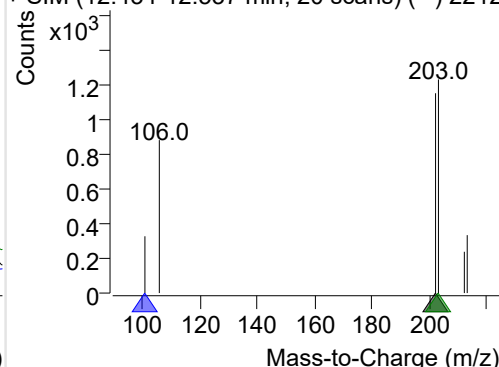
+ Selected Ion (202.0) 221208-PAHs-020.D



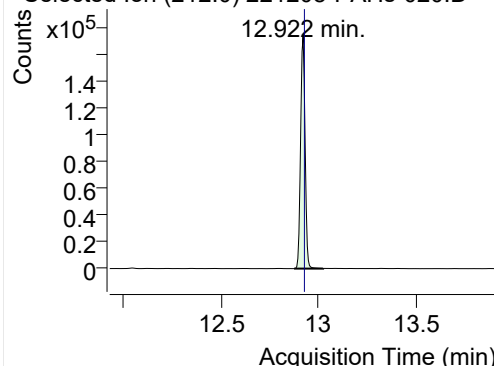
202.0, 101.0, 203.0



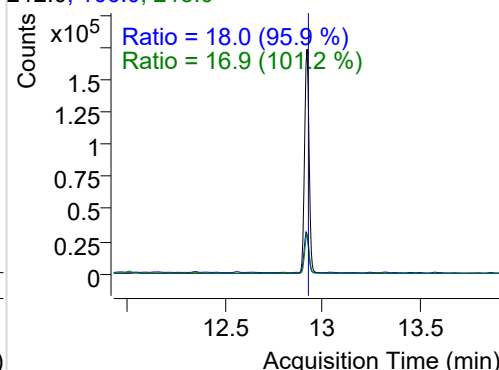
+ SIM (12.434-12.537 min, 20 scans) (**) 2212

**LSS-D10-Pyrene**

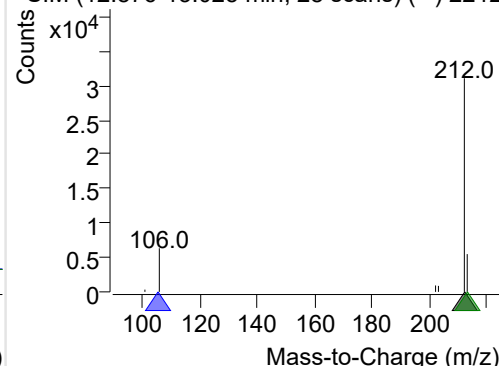
+ Selected Ion (212.0) 221208-PAHs-020.D



212.0, 106.0, 213.0

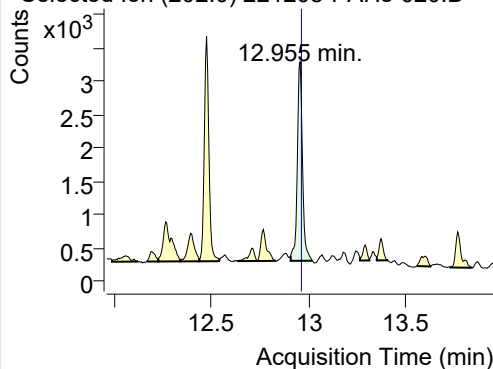


+ SIM (12.876-13.025 min, 28 scans) (**) 2212

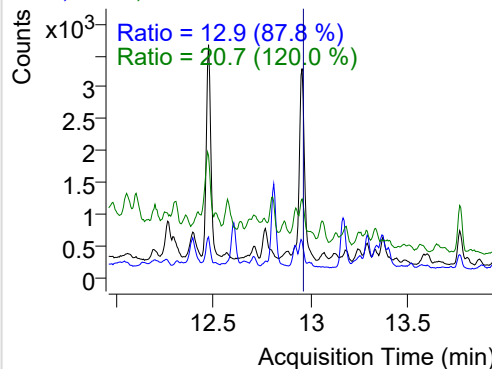


Pyrene

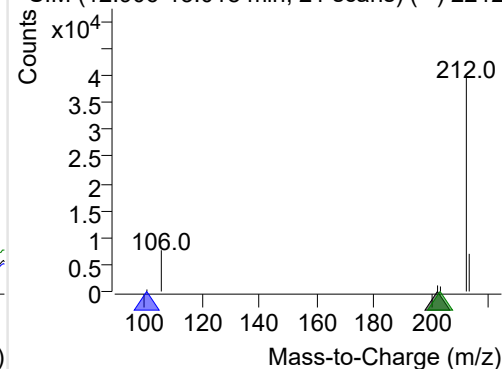
+ Selected Ion (202.0) 221208-PAHs-020.D



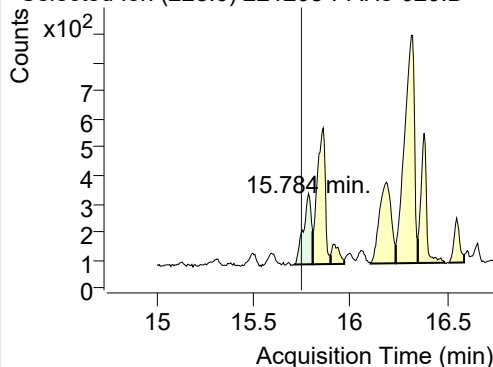
202.0, 101.0, 203.0



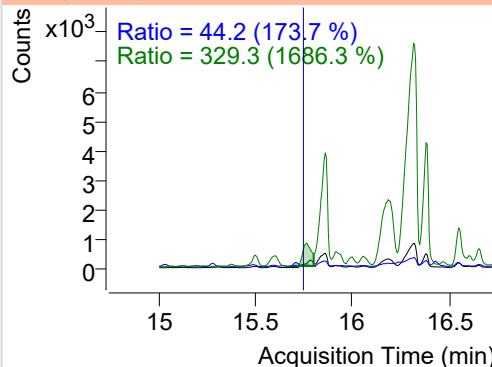
+ SIM (12.906-13.018 min, 21 scans) (**) 2212

**Benz(a)anthracene**

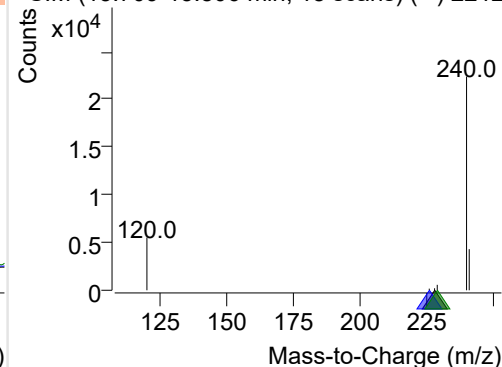
+ Selected Ion (228.0) 221208-PAHs-020.D



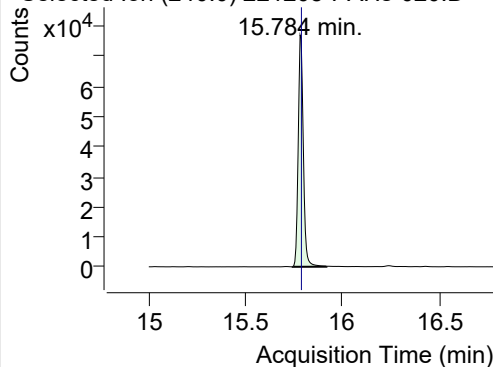
228.0, 226.0, 229.0



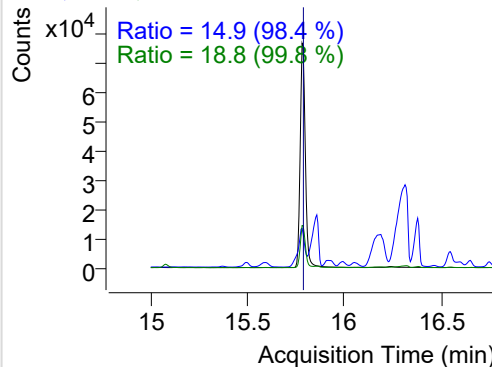
+ SIM (15.709-15.806 min, 18 scans) (**) 2212

**IS-D12-Chrysene**

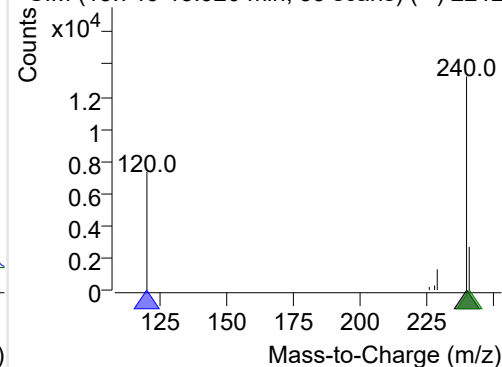
+ Selected Ion (240.0) 221208-PAHs-020.D



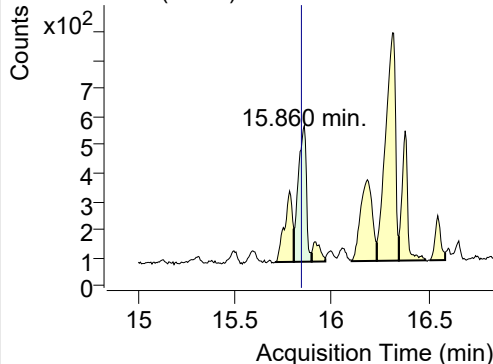
240.0, 120.0, 241.0



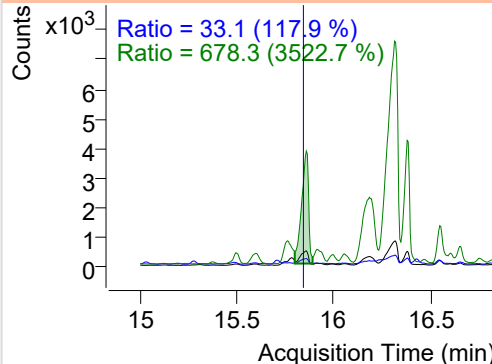
+ SIM (15.746-15.920 min, 33 scans) (**) 2212

**Chrysene**

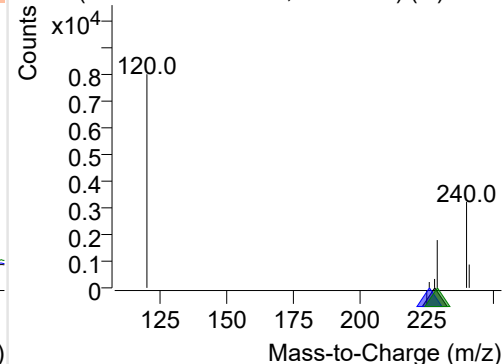
+ Selected Ion (228.0) 221208-PAHs-020.D



228.0, 226.0, 229.0



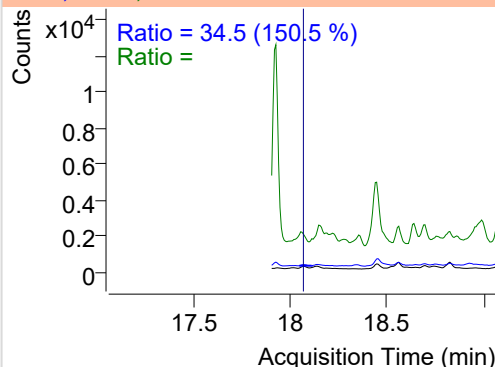
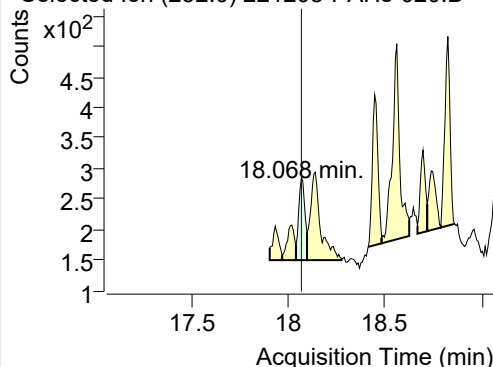
+ SIM (15.806-15.898 min, 18 scans) (**) 2212



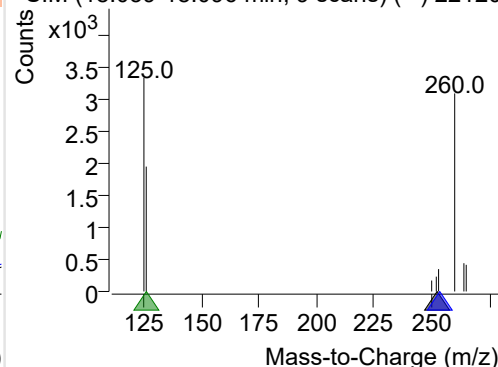
Benzo(b)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-020.D

252.0, 253.0, 126.0

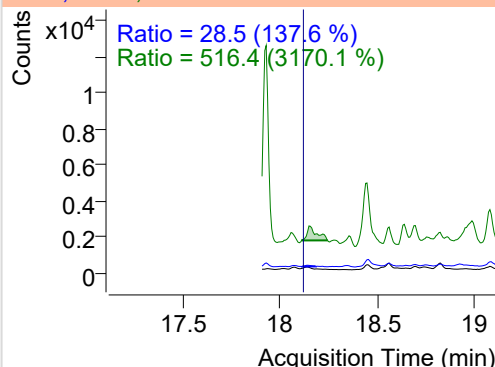
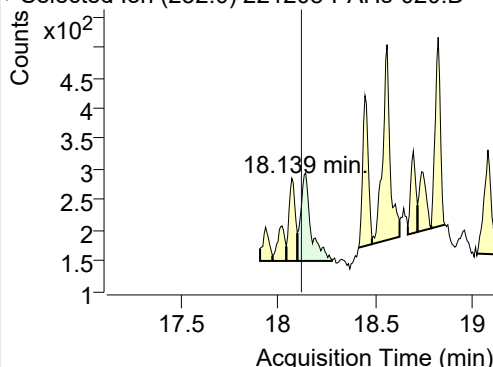


+ SIM (18.039-18.096 min, 9 scans) (**) 22120

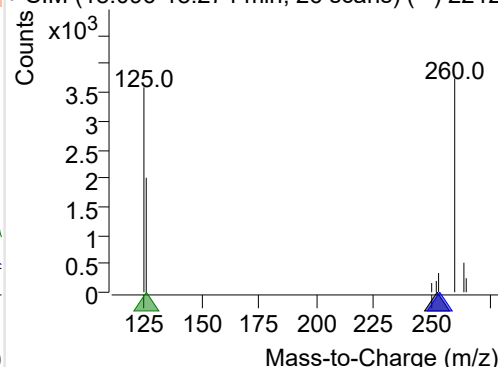
**Benzo(k)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-020.D

252.0, 253.0, 126.0

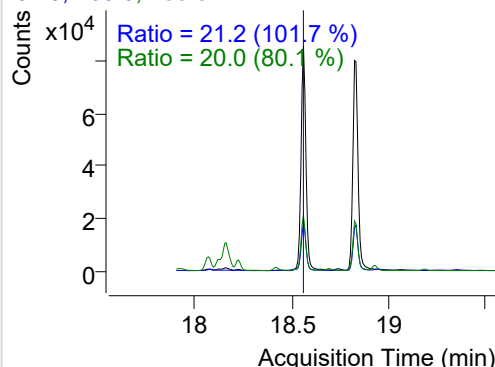
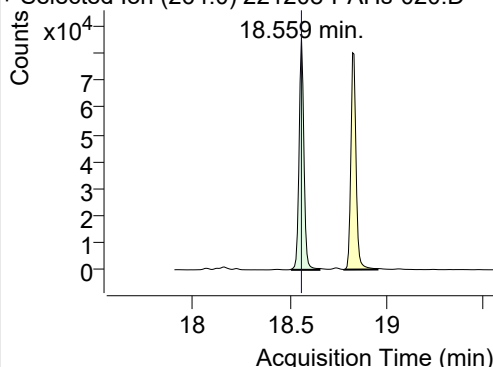


+ SIM (18.096-18.274 min, 26 scans) (**) 2212

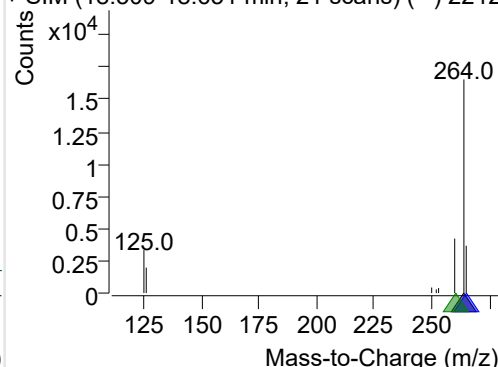
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-020.D

264.0, 265.0, 260.0

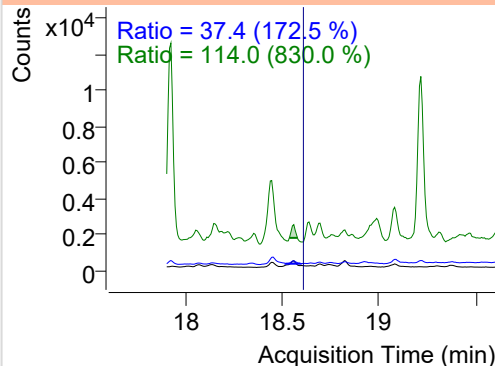
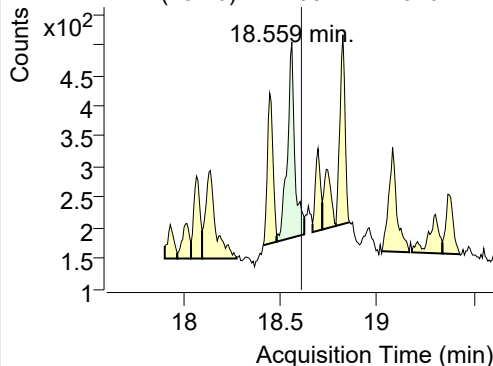


+ SIM (18.509-18.651 min, 21 scans) (**) 2212

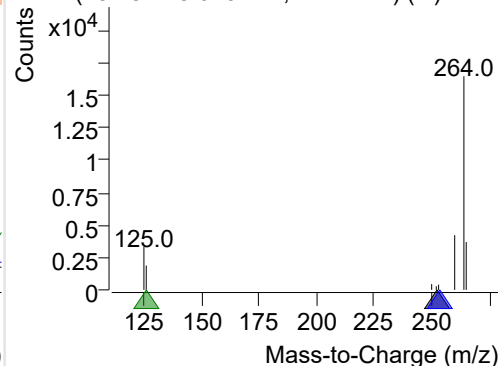
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-020.D

252.0, 253.0, 126.0



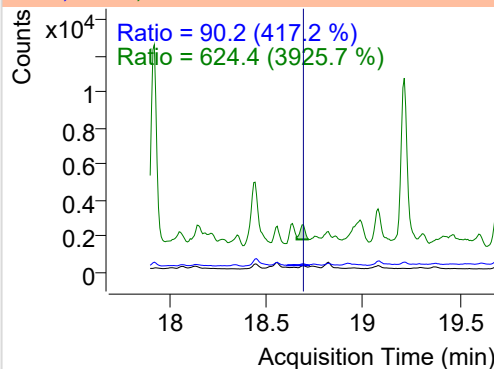
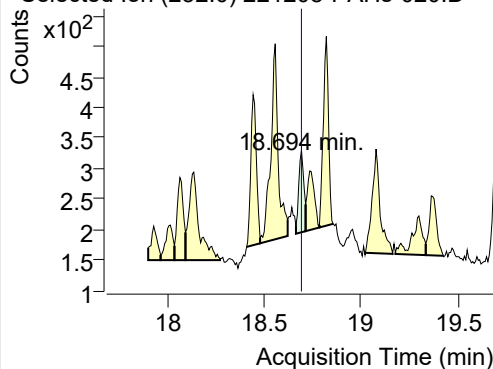
+ SIM (18.481-18.623 min, 21 scans) (**) 2212



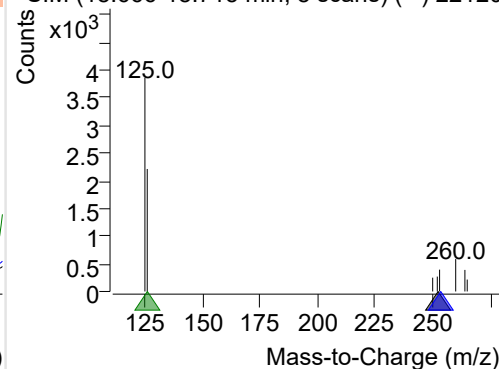
Benzo(a)pyrene

+ Selected Ion (252.0) 221208-PAHs-020.D

252.0, 253.0, 126.0

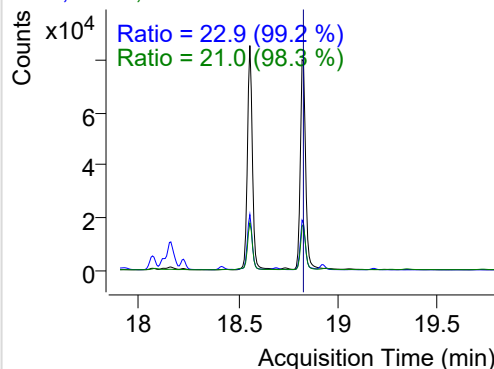
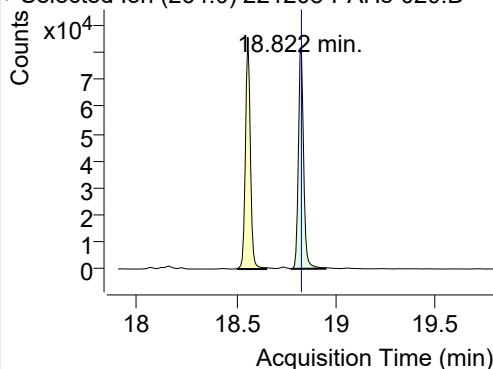


+ SIM (18.666-18.715 min, 8 scans) (**) 22120

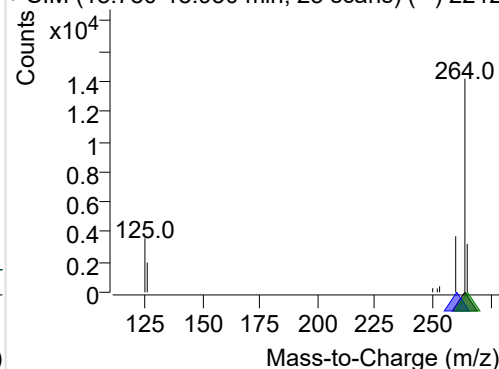
**IS-D12-Perylene**

+ Selected Ion (264.0) 221208-PAHs-020.D

264.0, 260.0, 265.0

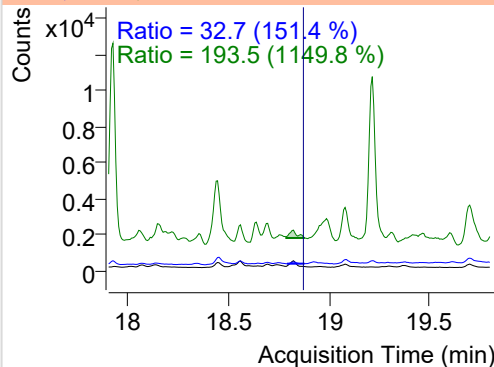
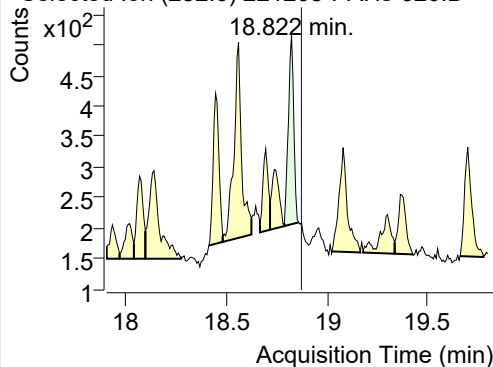


+ SIM (18.780-18.950 min, 25 scans) (**) 2212

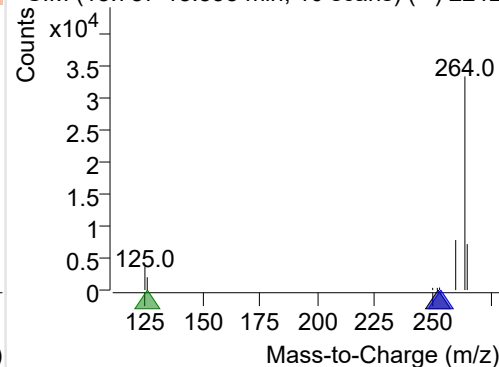
**Perylene**

+ Selected Ion (252.0) 221208-PAHs-020.D

252.0, 253.0, 126.0

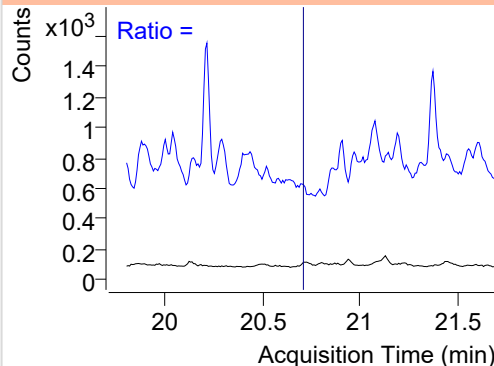
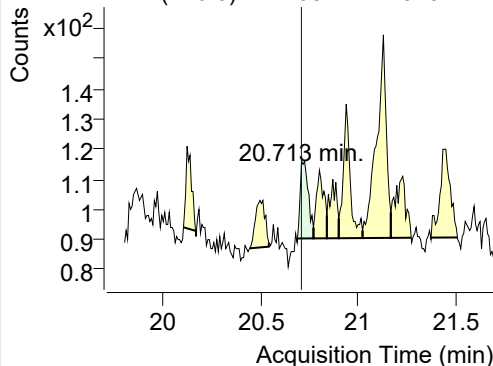


+ SIM (18.787-18.858 min, 10 scans) (**) 2212

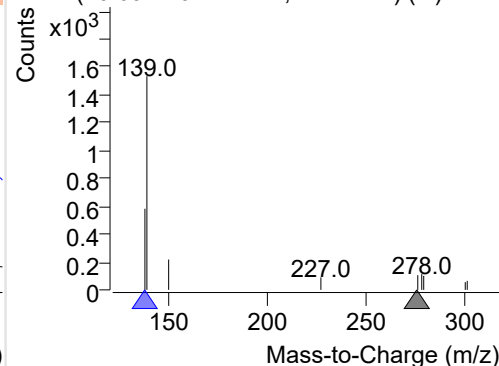
**Indeno(1,2,3-c,d)pyrene**

+ Selected Ion (276.0) 221208-PAHs-020.D

276.0, 138.0



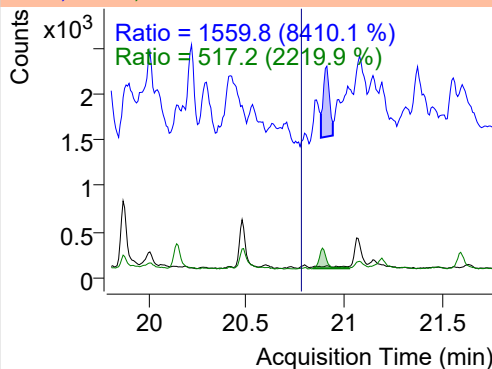
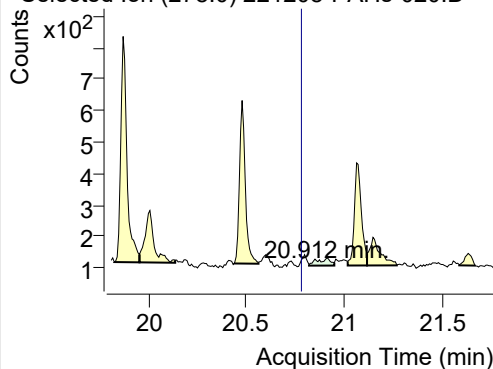
+ SIM (20.692-20.774 min, 11 scans) (**) 2212



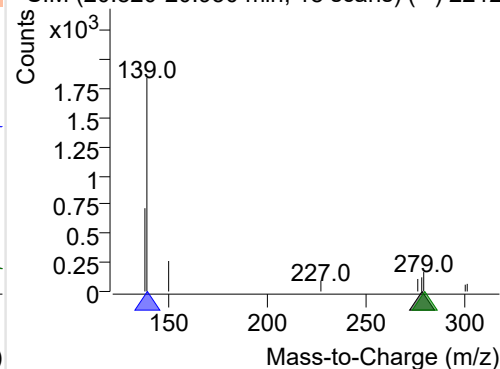
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 221208-PAHs-020.D

278.0, 139.0, 279.0

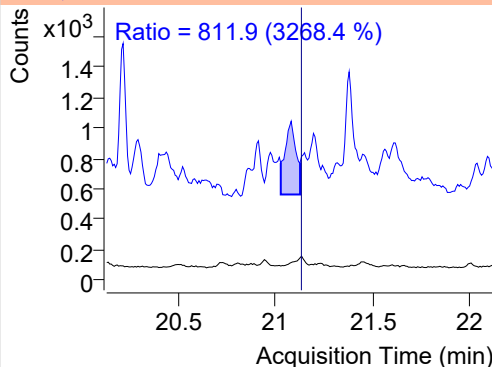
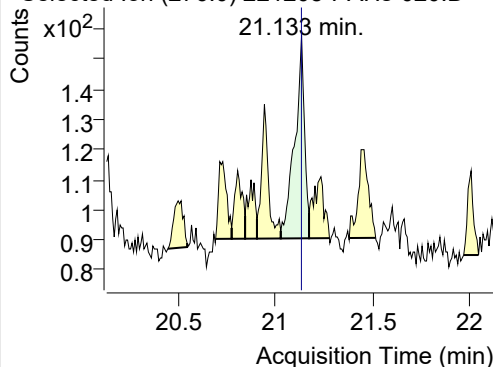


+ SIM (20.820-20.950 min, 18 scans) (**) 2212

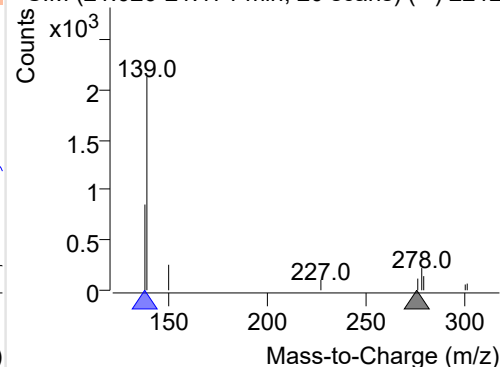
**Benzo(g,h,i)perylene**

+ Selected Ion (276.0) 221208-PAHs-020.D

276.0, 138.0

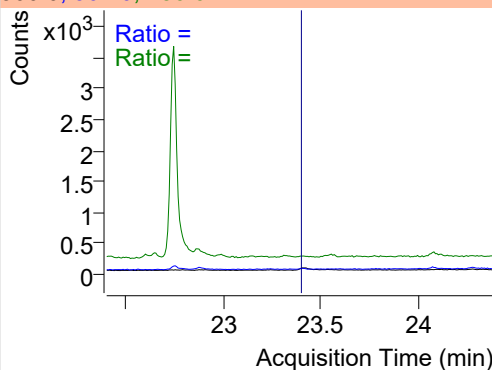
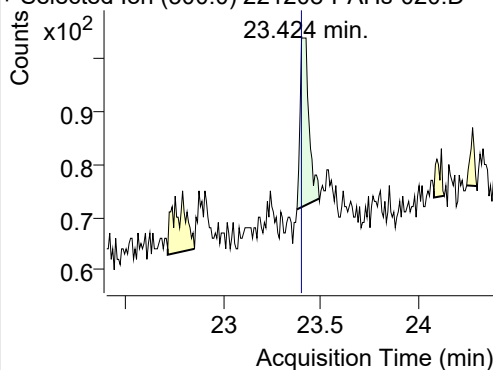


+ SIM (21.026-21.171 min, 20 scans) (**) 2212

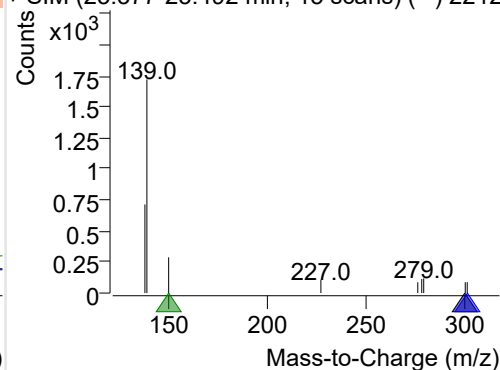
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-020.D

300.0, 301.0, 150.0



+ SIM (23.377-23.492 min, 15 scans) (**) 2212



Quantitative Analysis Sample Based Report

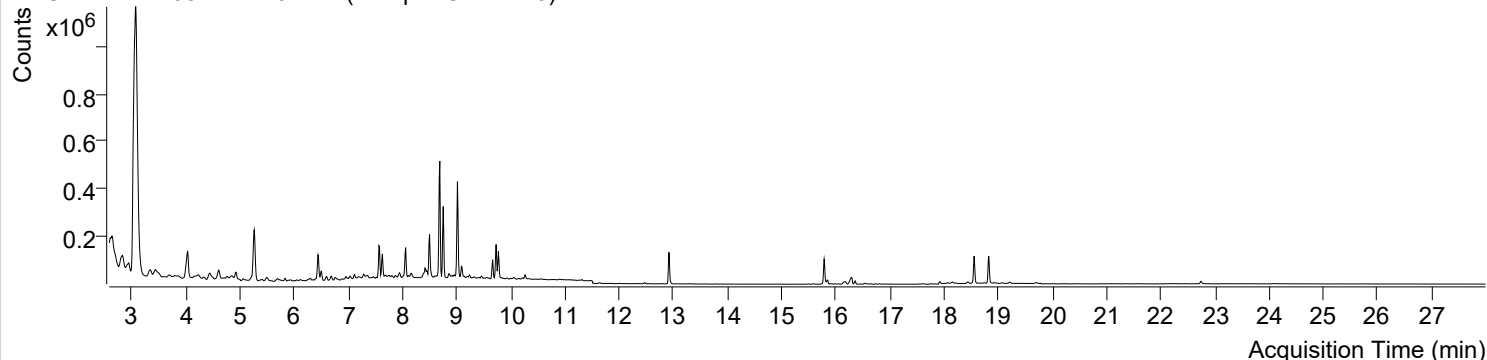


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 3:58:53	Data File	221208-PAHs-021.D
Type	Sample	Name	Sample-Gas-1125
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

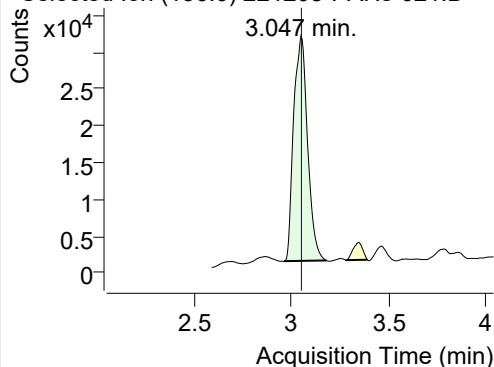
+ TIC SIM 221208-PAHs-021.D (Sample-Gas-1125)



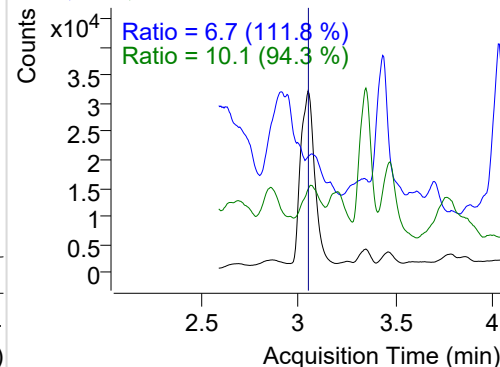
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.047	136.0	151815	30559.32	ND ng/ml	10.1
Naphthalene	3.074	128.0	4462926	889025.90	ND ng/ml	13.4
Acenaphthylene	6.114	152.0	6659	3156.22	ND ng/ml	
IS-D10-Acenaphthene	6.439	164.0	104826	51242.50	ND ng/ml	94.1
Acenaphthene	6.504	154.0	20049	9751.43	ND ng/ml	100.6
LSS-D10-Fluorene	7.575	176.0	108488	58679.84	ND ng/ml	90.5
Fluorene	7.627	166.0	82705	47937.50	ND ng/ml	96.6
IS-D10-Phenanthrene	9.727	188.0	176522	114657.08	ND ng/ml	16.2
Phenanthrene	9.769	178.0	118639	74354.24	ND ng/ml	17.7
Anthracene	9.864	178.0	2075	1375.54	ND ng/ml	
Fluoranthene	12.472	202.0	5289	3178.39	ND ng/ml	15.7
LSS-D10-Pyrene	12.922	212.0	159471	96889.74	ND ng/ml	18.4
Pyrene	12.954	202.0	5734	3190.39	ND ng/ml	21.8
Benz(a)anthracene	15.746	228.0	177	118.92	ND ng/ml	45.9
IS-D12-Chrysene	15.784	240.0	137255	77940.37	ND ng/ml	19.4
Chrysene	15.844	228.0	983	400.27	ND ng/ml	32.5
Benzo(b)fluoranthene	18.067	252.0	221	109.50	ND ng/ml	130.6
Benzo(k)fluoranthene	18.132	252.0	296	89.50	ND ng/ml	87.7
SS-D12-Benzo(e)pyrene	18.552	264.0	137350	77507.06	ND ng/ml	24.3
Benzo(e)pyrene	18.552	252.0	1425	341.17	ND ng/ml	29.3
Benzo(a)pyrene	18.729	252.0	640	157.17	ND ng/ml	16.0
IS-D12-Perylene	18.822	264.0	143243	78673.51	ND ng/ml	23.0
Perylene	18.815	252.0	758	345.04	ND ng/ml	25.4
Indeno(1,2,3-c,d)pyrene	20.721	276.0	77	24.67	ND ng/ml	
Dibenz(a,h)anthracene	20.599	278.0	53	21.88	ND ng/ml	
Benzo(g,h,i)perylene	21.133	276.0	125	50.30	ND ng/ml	242.9
Coronene	23.408	300.0	123	31.86	ND ng/ml	

IS-D8-Naphthalene

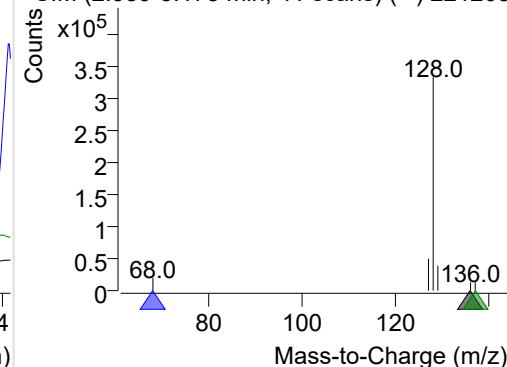
+ Selected Ion (136.0) 221208-PAHs-021.D



136.0, 68.0, 137.0

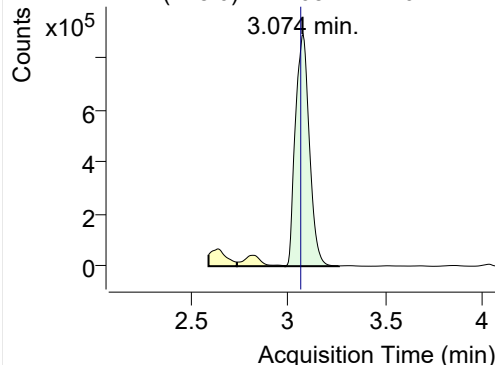


+ SIM (2.959-3.178 min, 41 scans) (**) 221208

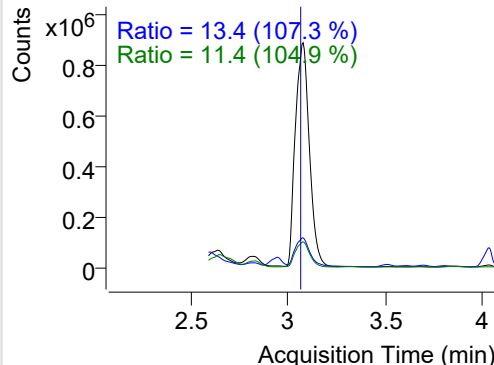


Naphthalene

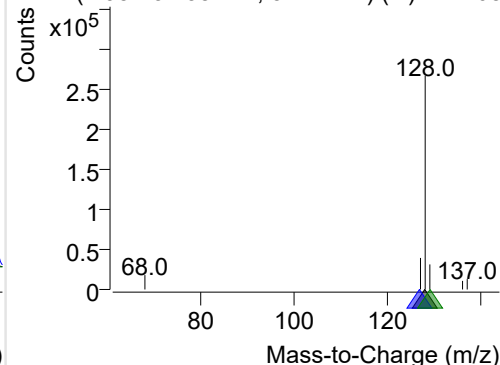
+ Selected Ion (128.0) 221208-PAHs-021.D



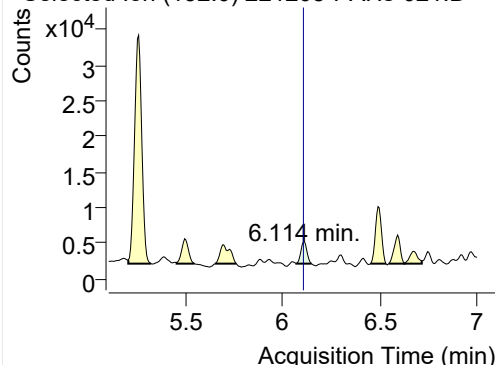
128.0, 127.0, 129.0



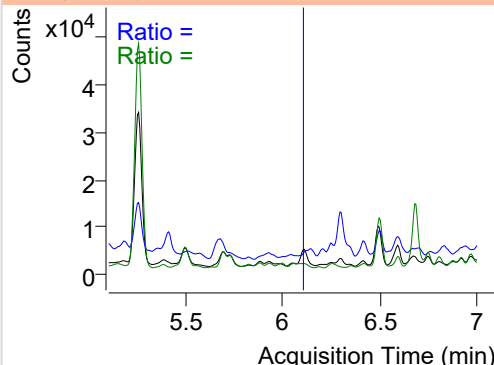
+ SIM (2.982-3.258 min, 52 scans) (**) 221208

**Acenaphthylene**

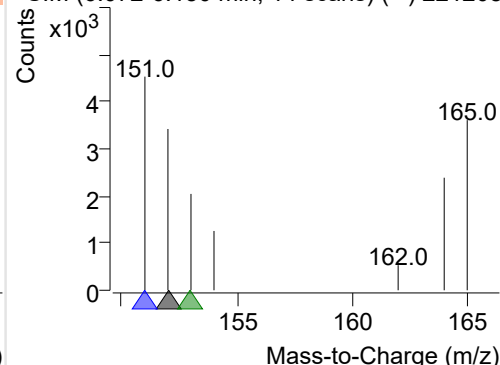
+ Selected Ion (152.0) 221208-PAHs-021.D



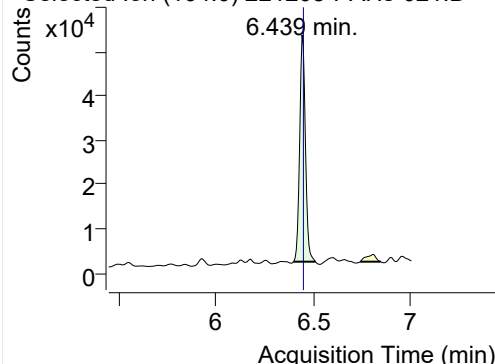
152.0, 151.0, 153.0



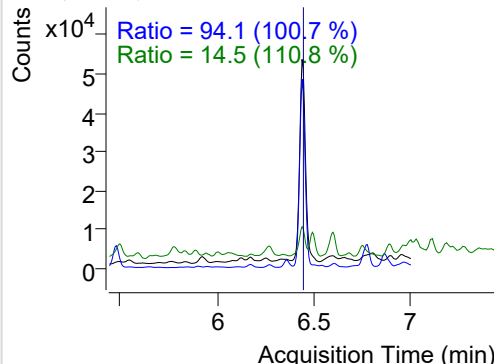
+ SIM (6.072-6.150 min, 14 scans) (**) 221208

**IS-D10-Acenaphthene**

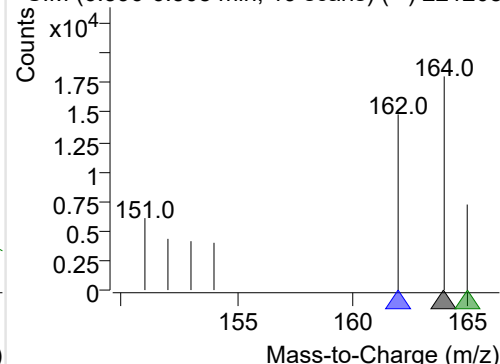
+ Selected Ion (164.0) 221208-PAHs-021.D



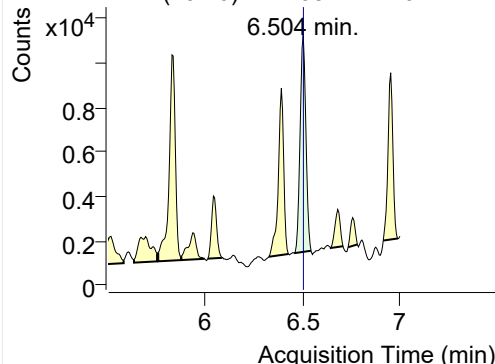
164.0, 162.0, 165.0



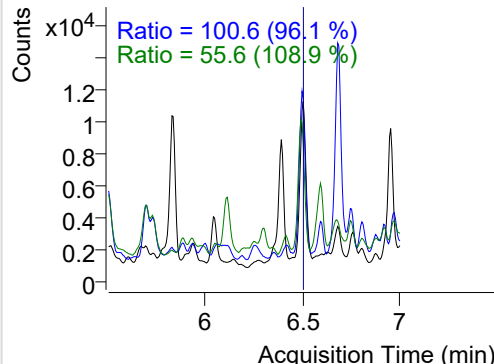
+ SIM (6.396-6.508 min, 19 scans) (**) 221208

**Acenaphthene**

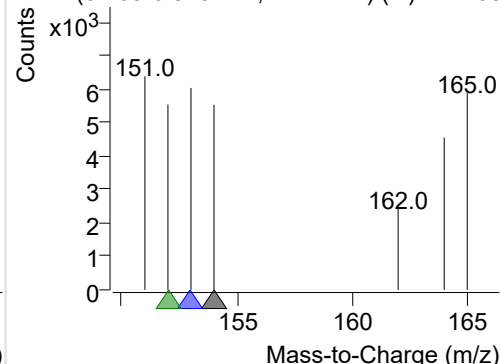
+ Selected Ion (154.0) 221208-PAHs-021.D



154.0, 153.0, 152.0

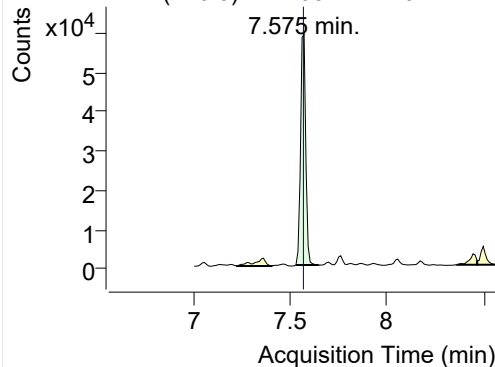


+ SIM (6.463-6.545 min, 14 scans) (**) 221208

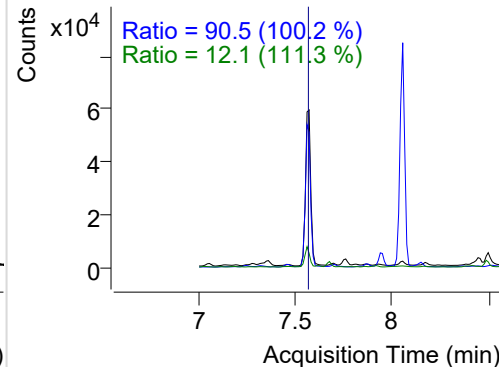


LSS-D10-Fluorene

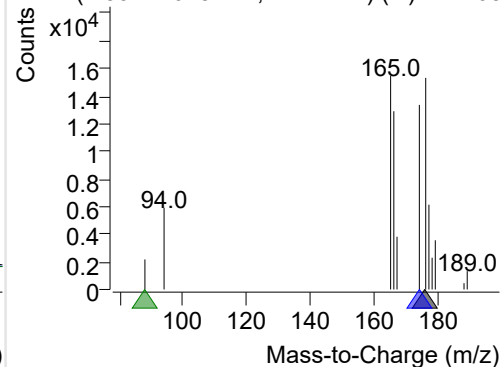
+ Selected Ion (176.0) 221208-PAHs-021.D



176.0, 174.0, 88.0

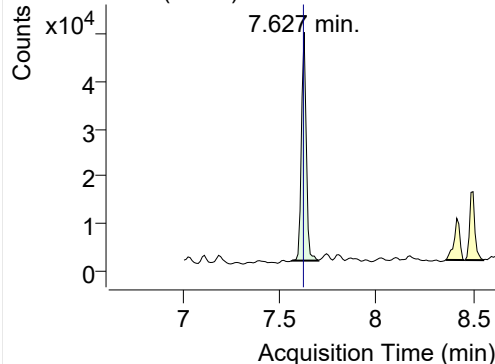


+ SIM (7.532-7.648 min, 12 scans) (**) 221208

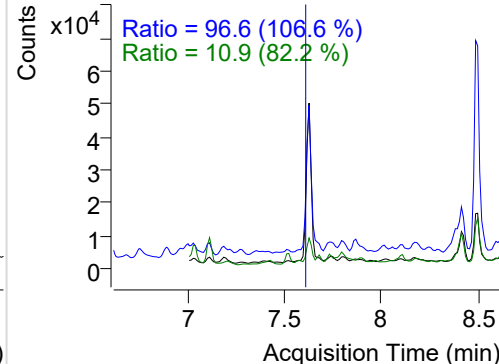


Fluorene

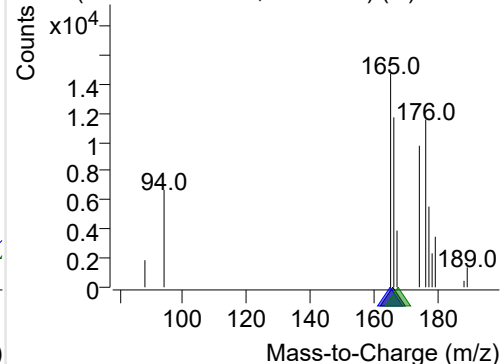
+ Selected Ion (166.0) 221208-PAHs-021.D



166.0, 165.0, 167.0

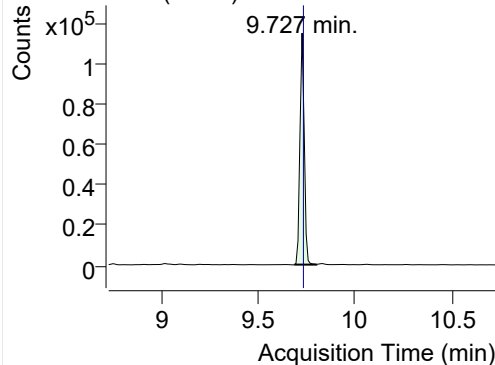


+ SIM (7.564-7.701 min, 14 scans) (**) 221208

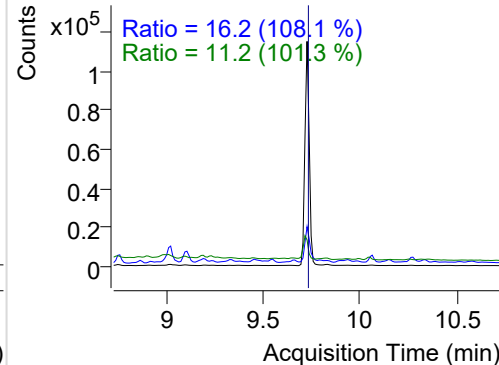


IS-D10-Phenanthrene

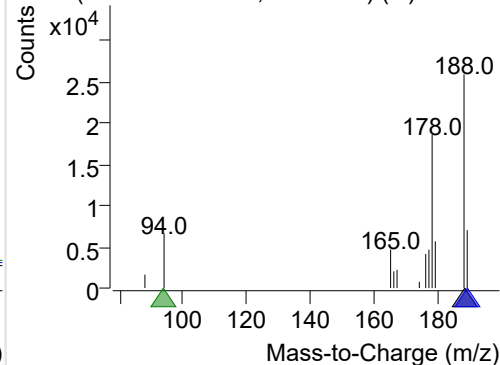
+ Selected Ion (188.0) 221208-PAHs-021.D



188.0, 189.0, 94.0

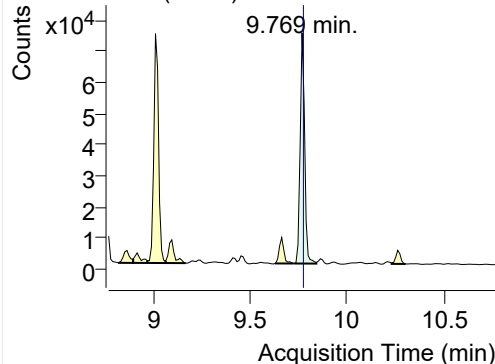


+ SIM (9.687-9.801 min, 11 scans) (**) 221208

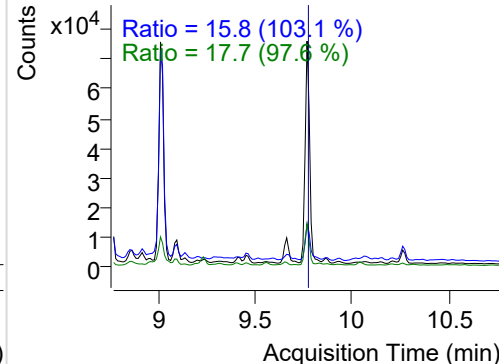


Phenanthrene

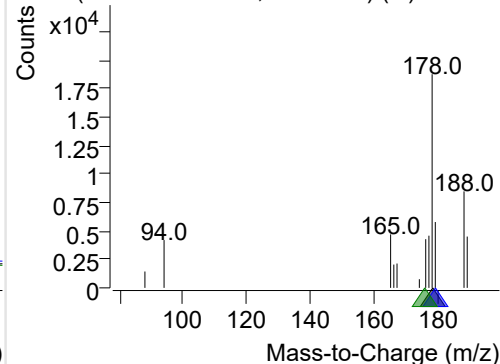
+ Selected Ion (178.0) 221208-PAHs-021.D



178.0, 179.0, 176.0

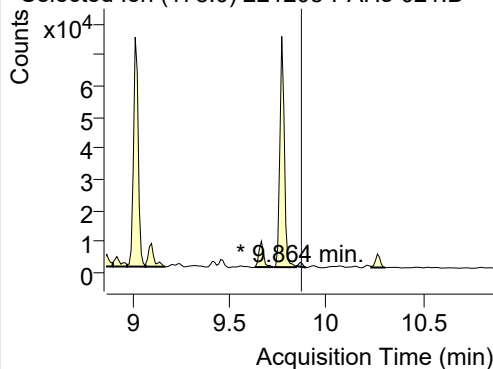


+ SIM (9.728-9.843 min, 11 scans) (**) 221208

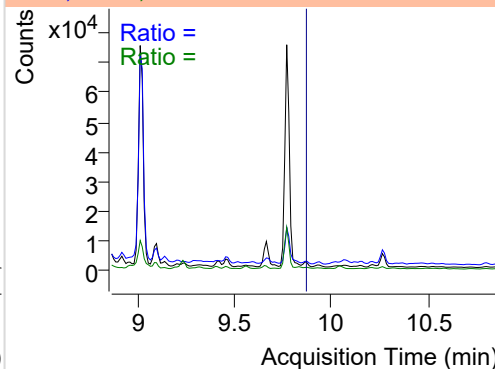


Anthracene

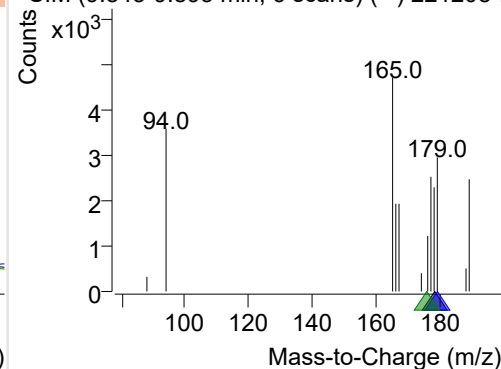
+ Selected Ion (178.0) 221208-PAHs-021.D



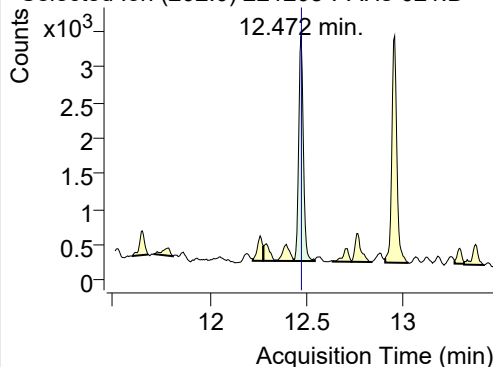
178.0, 179.0, 176.0



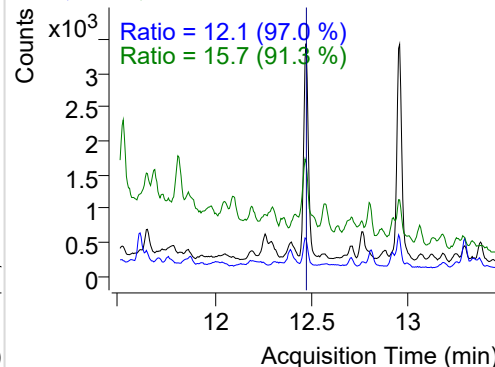
+ SIM (9.843-9.895 min, 6 scans) (**) 221208-I

**Fluoranthene**

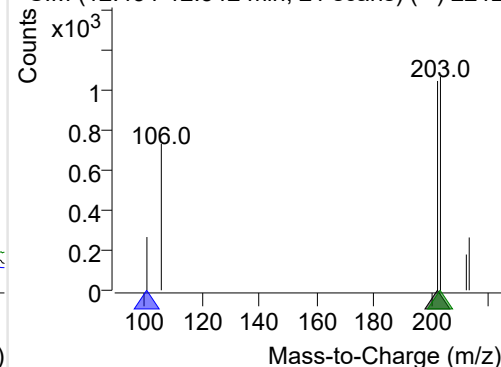
+ Selected Ion (202.0) 221208-PAHs-021.D



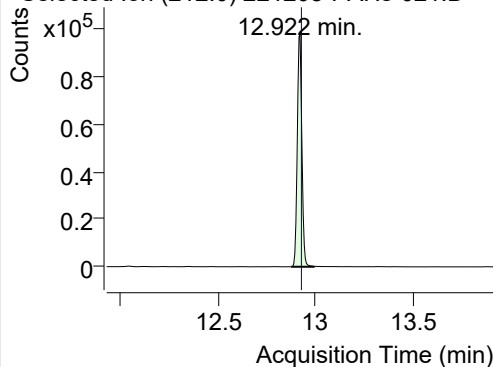
202.0, 101.0, 203.0



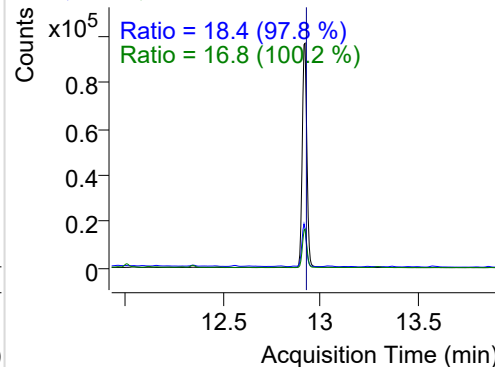
+ SIM (12.434-12.542 min, 21 scans) (**) 2212

**LSS-D10-Pyrene**

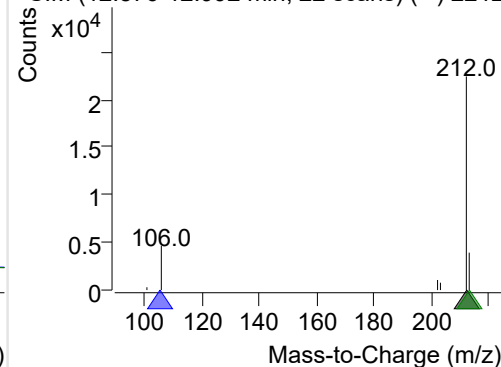
+ Selected Ion (212.0) 221208-PAHs-021.D



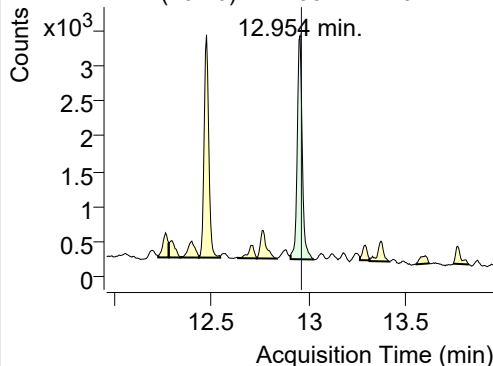
212.0, 106.0, 213.0



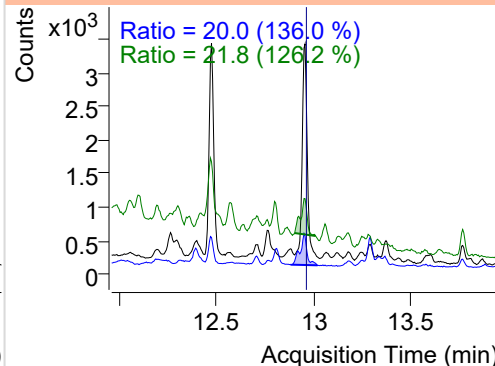
+ SIM (12.876-12.992 min, 22 scans) (**) 2212

**Pyrene**

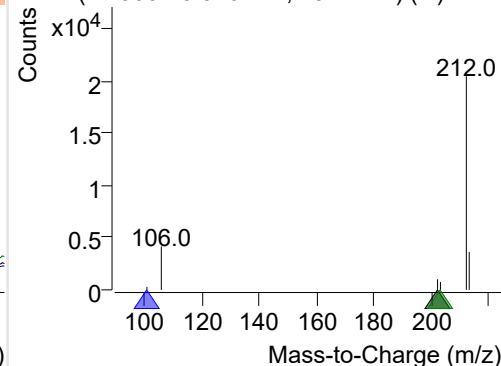
+ Selected Ion (202.0) 221208-PAHs-021.D



202.0, 101.0, 203.0



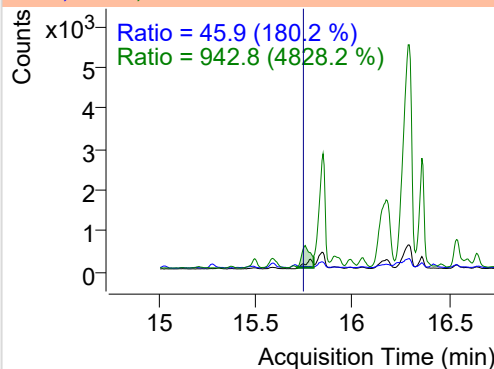
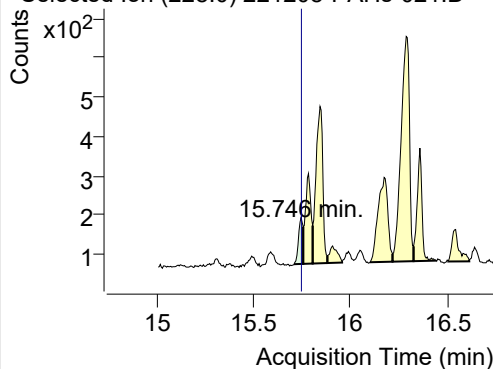
+ SIM (12.906-13.026 min, 23 scans) (**) 2212



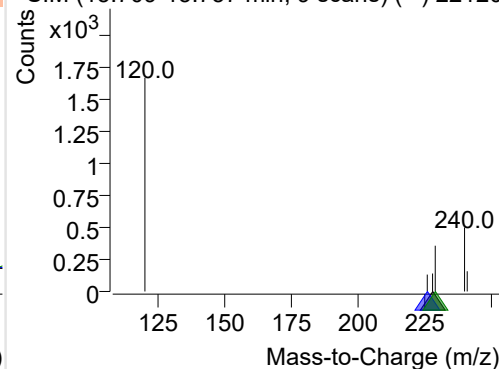
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-021.D

228.0, 226.0, 229.0

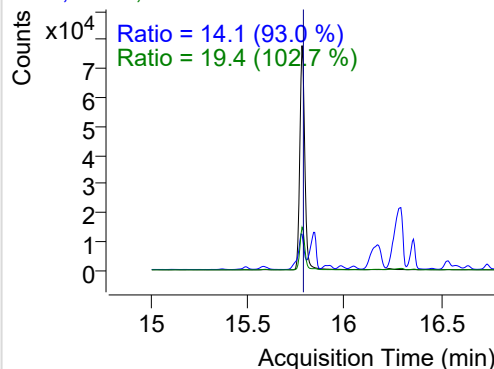
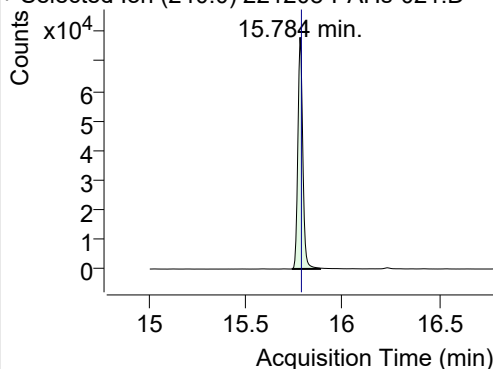


+ SIM (15.709-15.757 min, 9 scans) (**) 22120

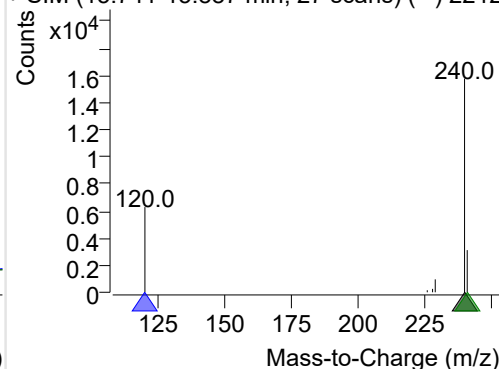
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-021.D

240.0, 120.0, 241.0

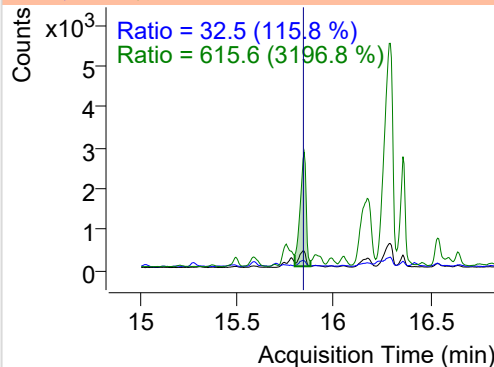
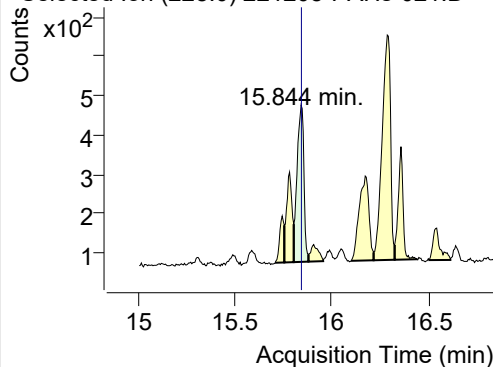


+ SIM (15.741-15.887 min, 27 scans) (**) 2212

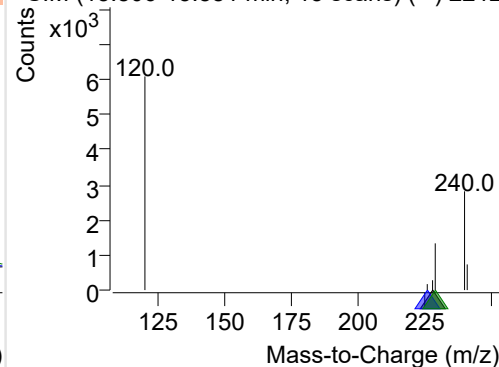
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-021.D

228.0, 226.0, 229.0

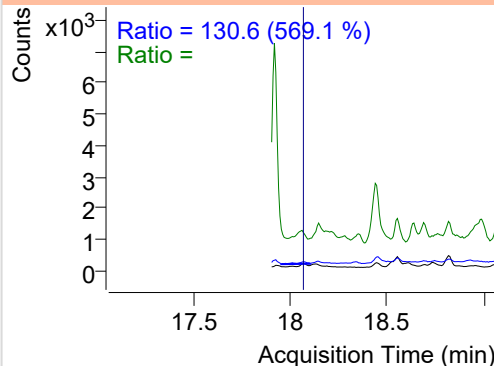
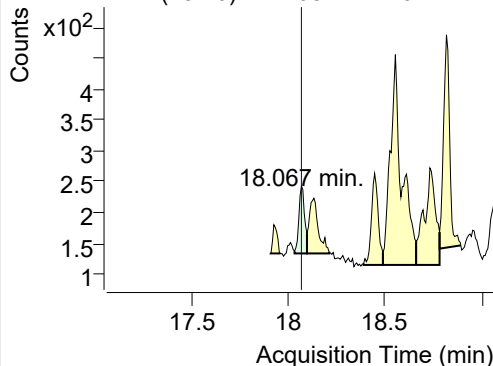


+ SIM (15.806-15.881 min, 15 scans) (**) 2212

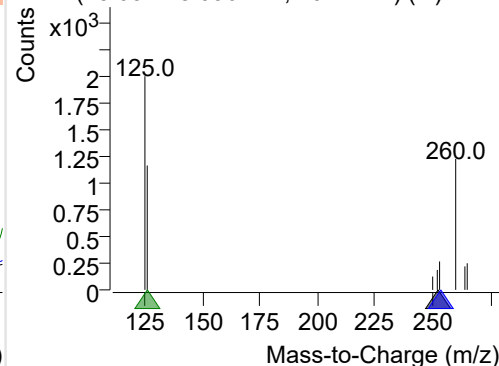
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-021.D

252.0, 253.0, 126.0



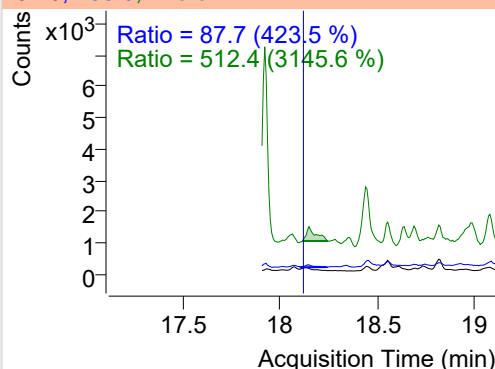
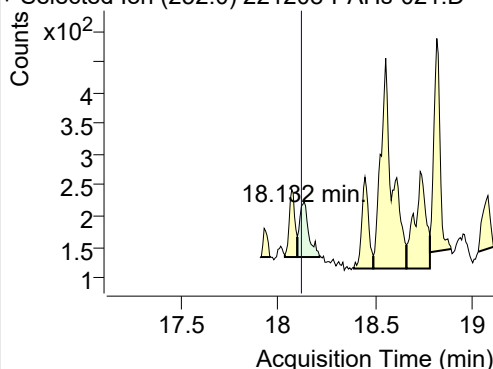
+ SIM (18.032-18.096 min, 10 scans) (**) 2212



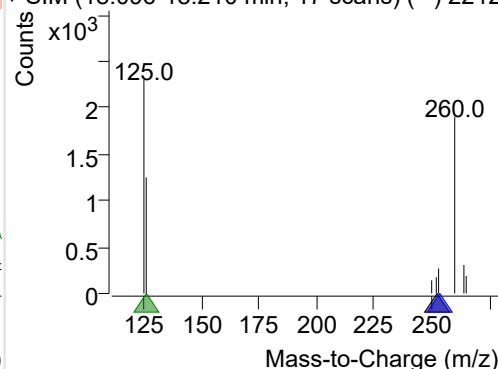
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-021.D

252.0, 253.0, 126.0

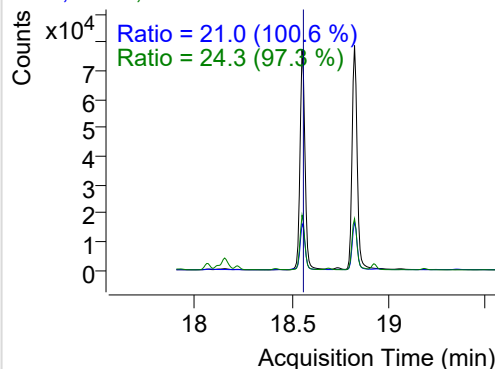
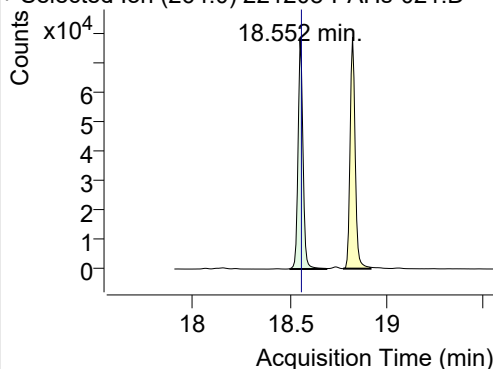


+ SIM (18.096-18.210 min, 17 scans) (**) 2212

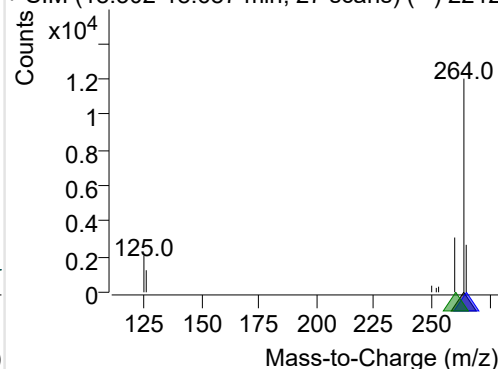
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-021.D

264.0, 265.0, 260.0

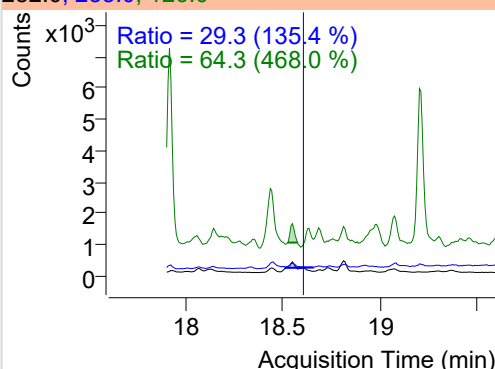
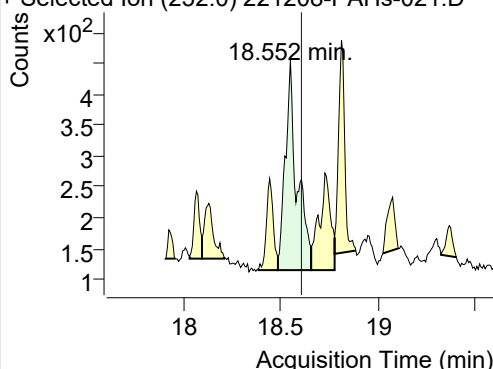


+ SIM (18.502-18.687 min, 27 scans) (**) 2212

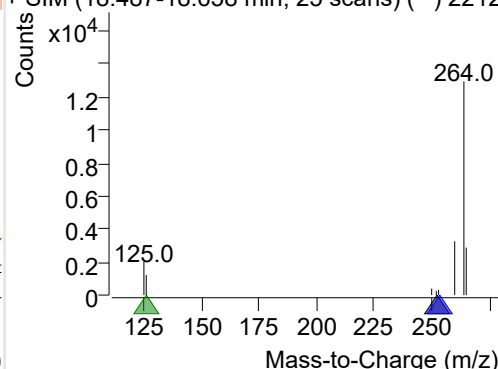
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-021.D

252.0, 253.0, 126.0

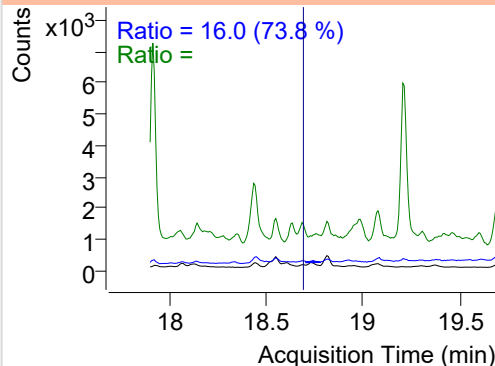
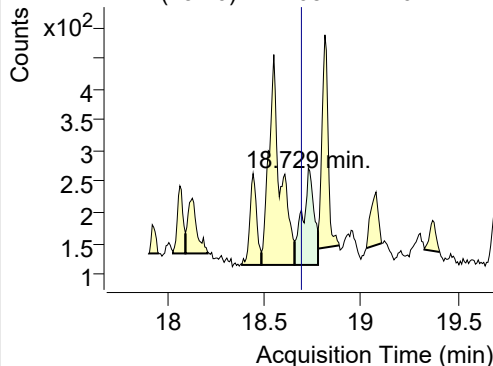


+ SIM (18.487-18.658 min, 25 scans) (**) 2212

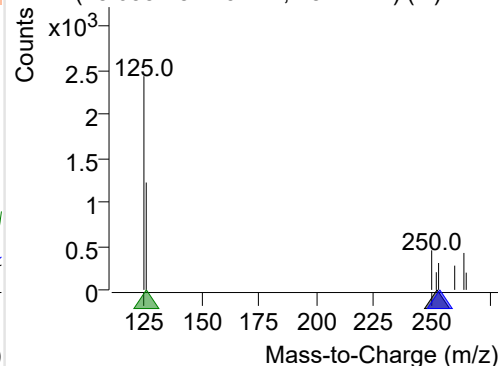
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-021.D

252.0, 253.0, 126.0

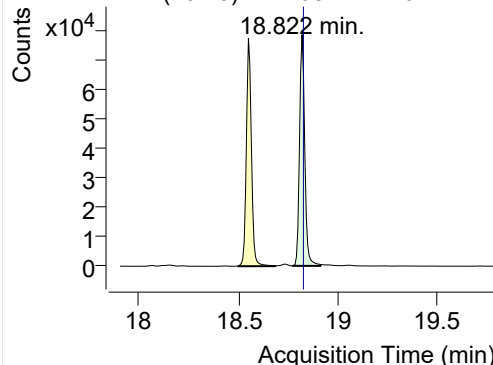


+ SIM (18.658-18.779 min, 18 scans) (**) 2212

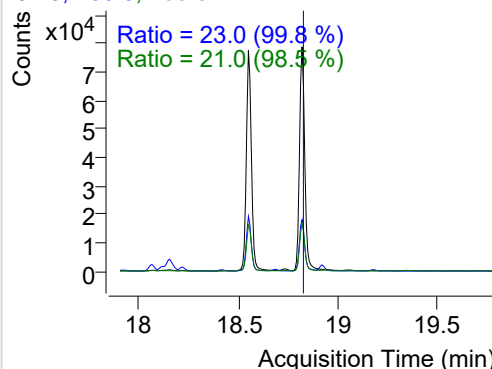


IS-D12-Perylene

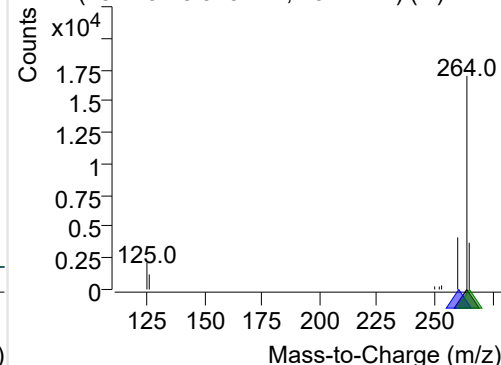
+ Selected Ion (264.0) 221208-PAHs-021.D



264.0, 260.0, 265.0

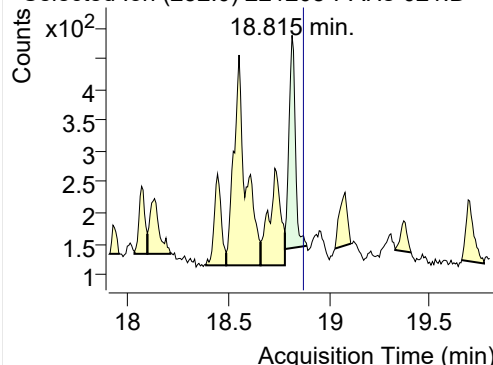


+ SIM (18.773-18.915 min, 20 scans) (**) 2212

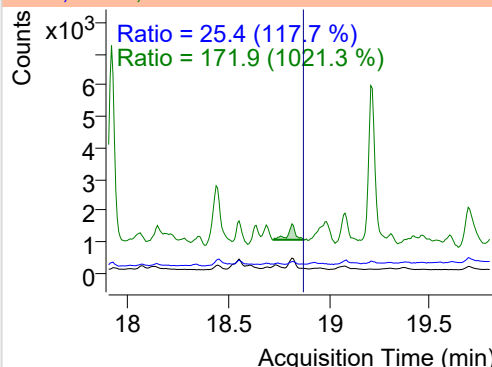


Perylene

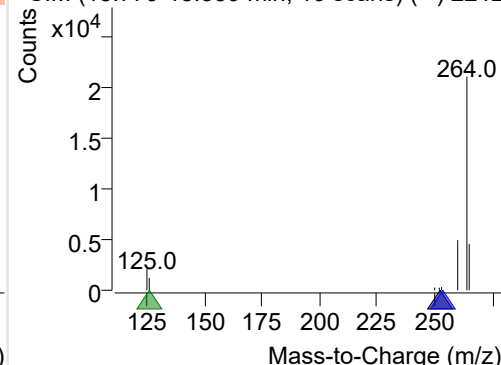
+ Selected Ion (252.0) 221208-PAHs-021.D



252.0, 253.0, 126.0

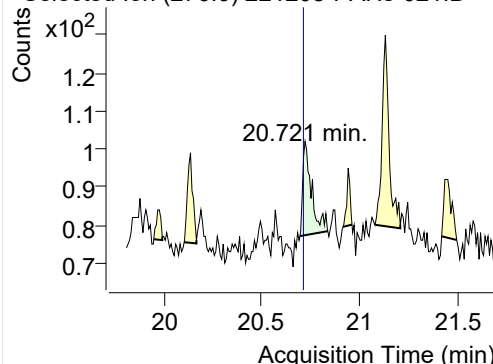


+ SIM (18.779-18.889 min, 16 scans) (**) 2212

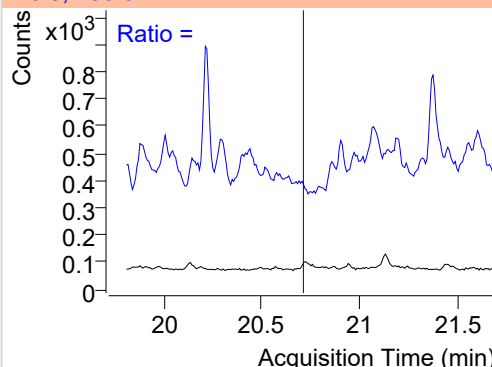


Indeno(1,2,3-c,d)pyrene

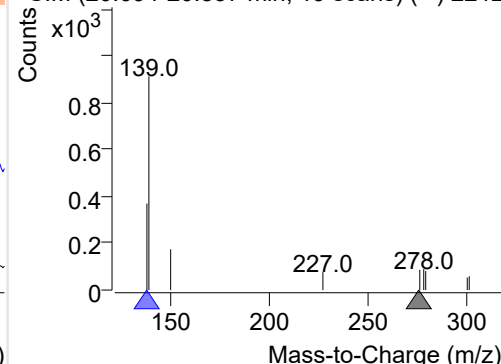
+ Selected Ion (276.0) 221208-PAHs-021.D



276.0, 138.0

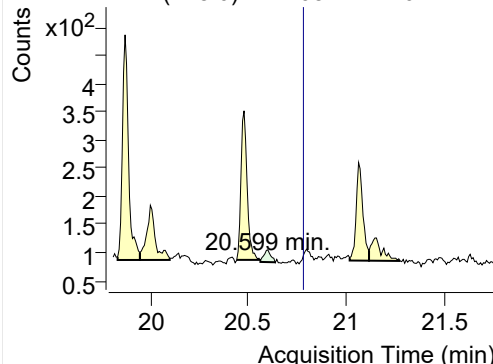


+ SIM (20.694-20.837 min, 19 scans) (**) 2212

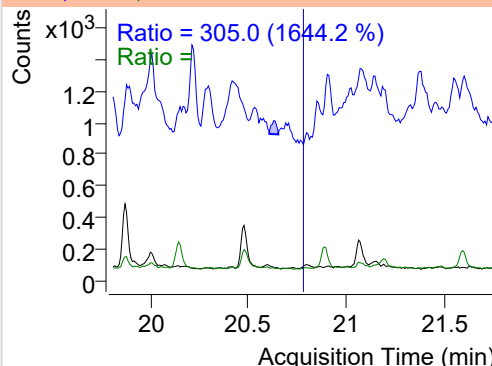


Dibenz(a,h)anthracene

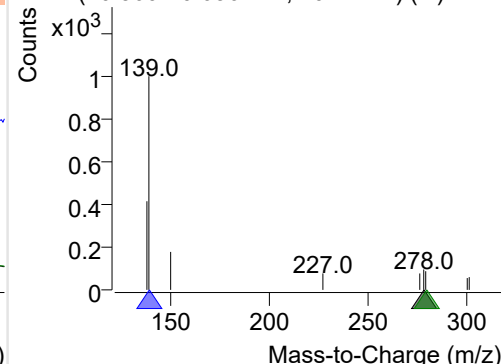
+ Selected Ion (278.0) 221208-PAHs-021.D



278.0, 139.0, 279.0



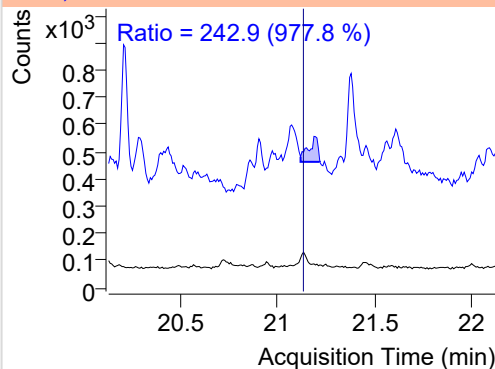
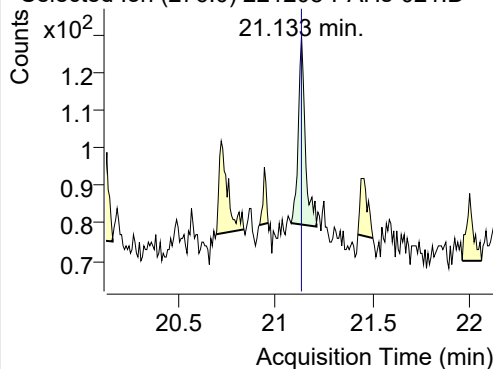
+ SIM (20.560-20.636 min, 10 scans) (**) 2212



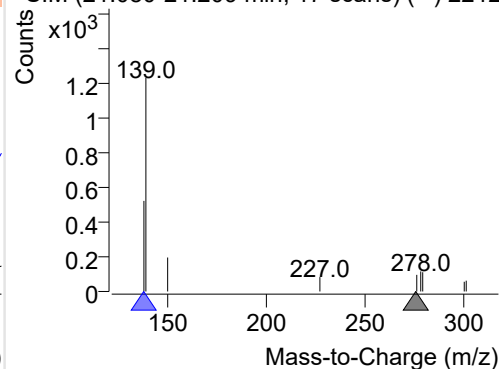
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221208-PAHs-021.D

276.0, 138.0

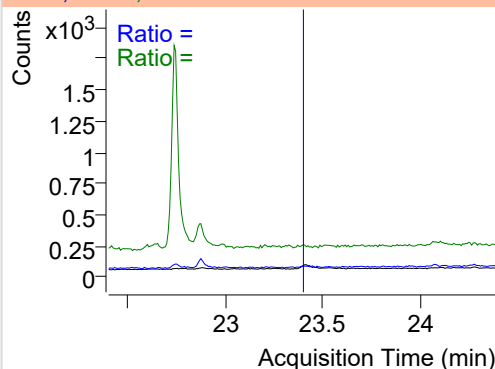
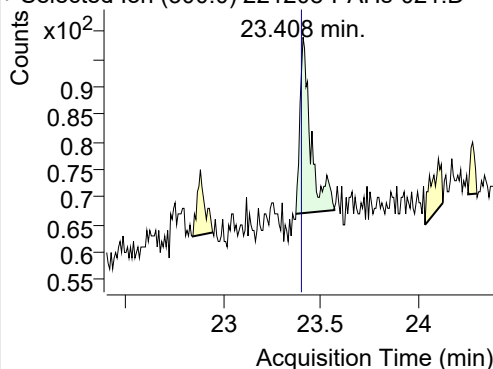


+ SIM (21.080-21.209 min, 17 scans) (**) 2212

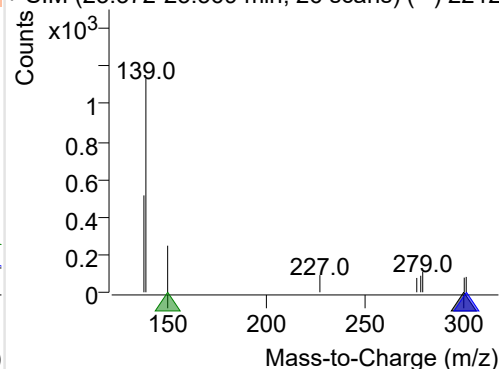
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-021.D

300.0, 301.0, 150.0



+ SIM (23.372-23.569 min, 26 scans) (**) 2212



Quantitative Analysis Sample Based Report

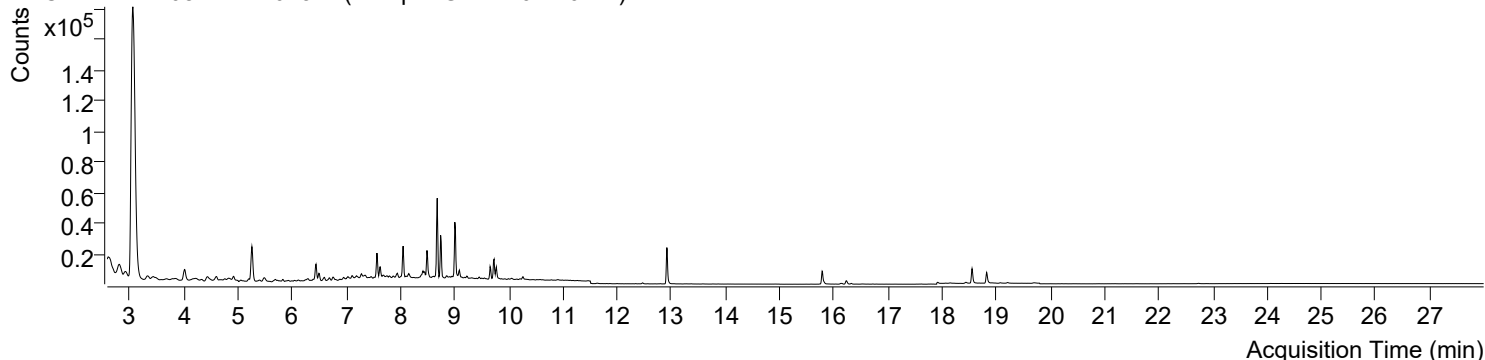


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 5:01:05	Data File	221208-PAHs-023.D
Type	Sample	Name	Sample-Gas-1101-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

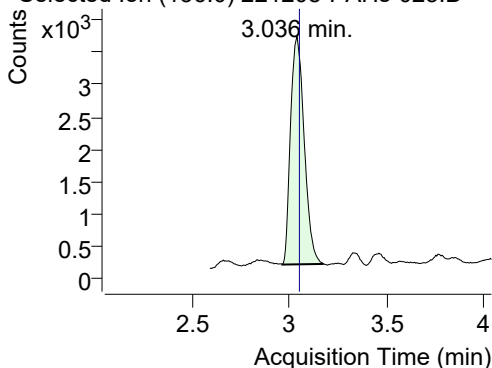
+ TIC SIM 221208-PAHs-023.D (Sample-Gas-1101-10DIL)



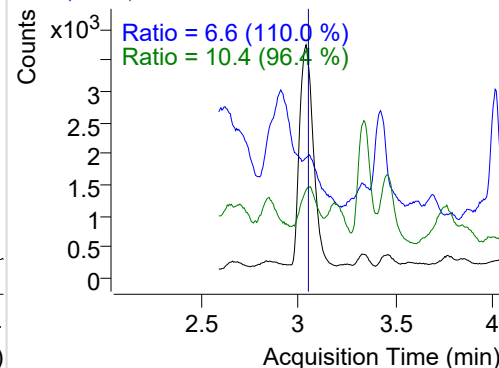
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	17287	3533.57	ND ng/ml	10.4
Naphthalene	3.058	128.0	699714	140014.67	ND ng/ml	13.2
Acenaphthylene	6.108	152.0	927	448.11	ND ng/ml	45.3
IS-D10-Acenaphthene	6.439	164.0	11091	5247.42	ND ng/ml	89.1
Acenaphthene	6.499	154.0	2721	1282.92	ND ng/ml	95.4
LSS-D10-Fluorene	7.564	176.0	11829	6970.96	ND ng/ml	92.3
Fluorene	7.627	166.0	6697	3247.62	ND ng/ml	93.1
IS-D10-Phenanthrene	9.728	188.0	17953	10439.20	ND ng/ml	17.7
Phenanthrene	9.770	178.0	8487	5024.64	ND ng/ml	18.6
Anthracene	9.770	178.0	8487	5024.64	ND ng/ml	18.6
Fluoranthene	12.472	202.0	781	413.61	ND ng/ml	27.8
LSS-D10-Pyrene	12.917	212.0	20241	16642.37	ND ng/ml	17.5
Pyrene	12.949	202.0	794	425.49	ND ng/ml	27.5
Benz(a)anthracene	15.833	228.0	170	42.46	ND ng/ml	23.6
IS-D12-Chrysene	15.784	240.0	12413	6308.27	ND ng/ml	19.2
Chrysene	15.833	228.0	170	42.46	ND ng/ml	23.6
Benzo(b)fluoranthene	18.139	252.0	80	15.40	ND ng/ml	
Benzo(k)fluoranthene	18.139	252.0	80	15.40	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.552	264.0	13121	6465.93	ND ng/ml	24.6
Benzo(e)pyrene	18.552	252.0	107	30.32	ND ng/ml	
Benzo(a)pyrene	18.737	252.0	54	14.48	ND ng/ml	
IS-D12-Perylene	18.822	264.0	10563	4771.88	ND ng/ml	22.5
Perylene	18.808	252.0	71	23.38	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.728	276.0	26	7.04	ND ng/ml	
Dibenz(a,h)anthracene	20.805	278.0	30	8.10	ND ng/ml	146.7
Benzo(g,h,i)perylene	21.148	276.0	33	8.07	ND ng/ml	141.0
Coronene	23.409	300.0	35	8.97	ND ng/ml	

IS-D8-Naphthalene

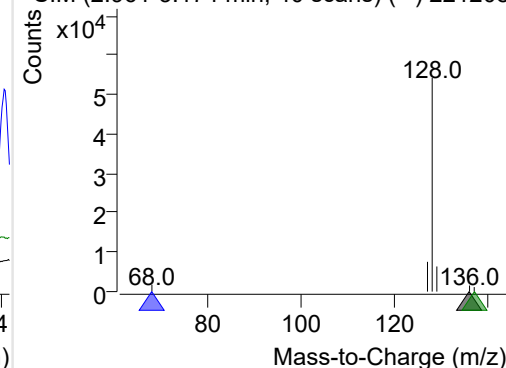
+ Selected Ion (136.0) 221208-PAHs-023.D



136.0, 68.0, 137.0

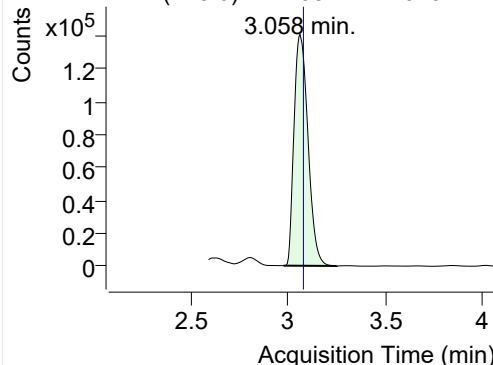


+ SIM (2.961-3.174 min, 40 scans) (**) 221208

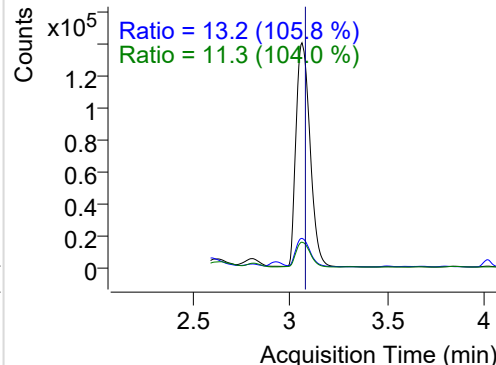


Naphthalene

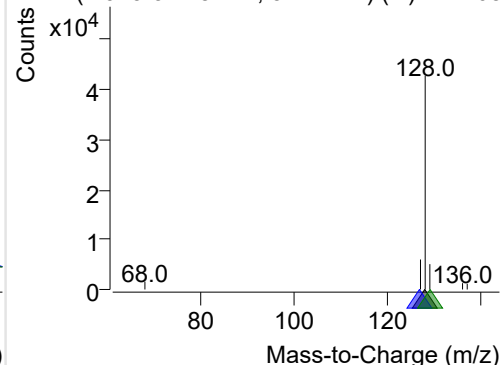
+ Selected Ion (128.0) 221208-PAHs-023.D



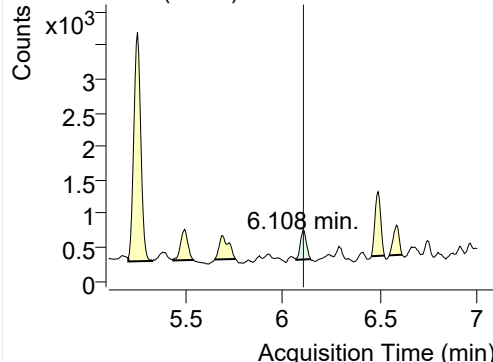
128.0, 127.0, 129.0



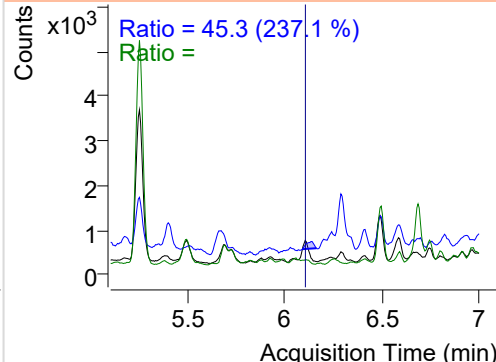
+ SIM (2.973-3.248 min, 51 scans) (**) 221208

**Acenaphthylene**

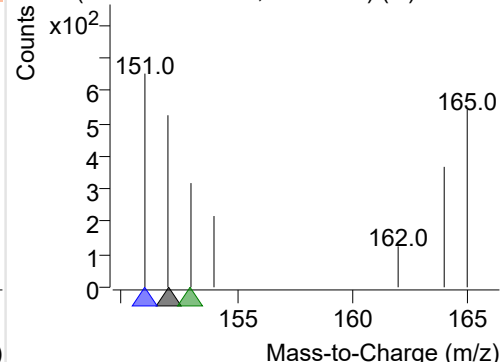
+ Selected Ion (152.0) 221208-PAHs-023.D



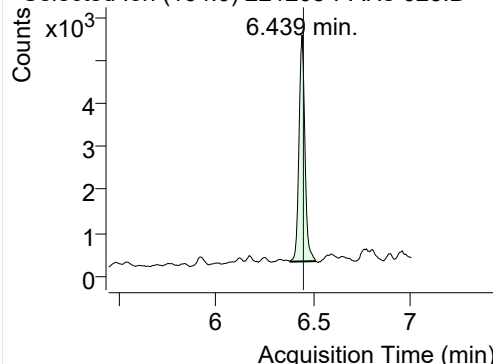
152.0, 151.0, 153.0



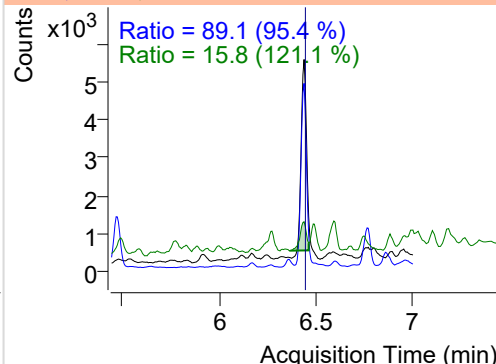
+ SIM (6.072-6.147 min, 13 scans) (**) 221208

**IS-D10-Acenaphthene**

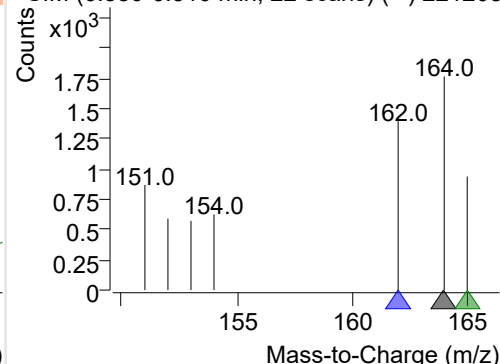
+ Selected Ion (164.0) 221208-PAHs-023.D



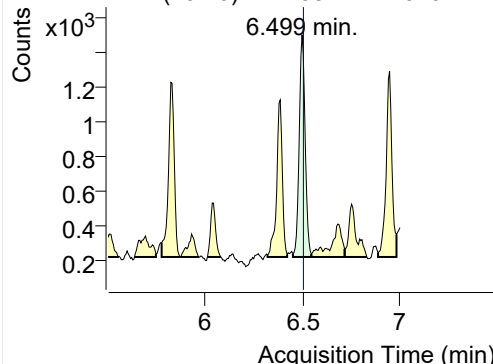
164.0, 162.0, 165.0



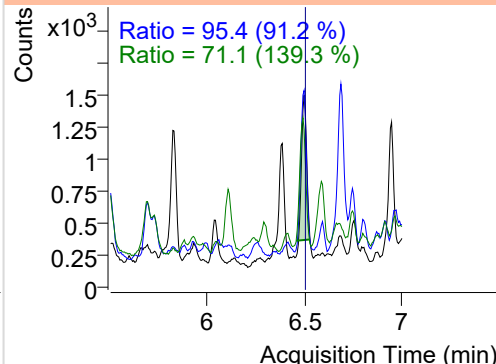
+ SIM (6.380-6.510 min, 22 scans) (**) 221208

**Acenaphthene**

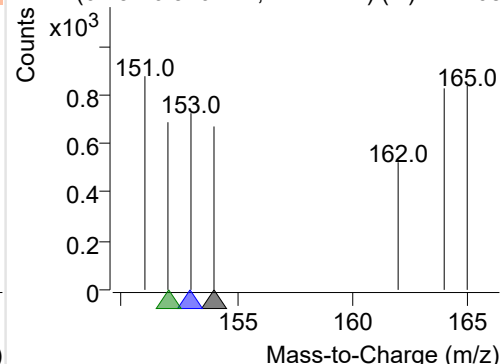
+ Selected Ion (154.0) 221208-PAHs-023.D



154.0, 153.0, 152.0

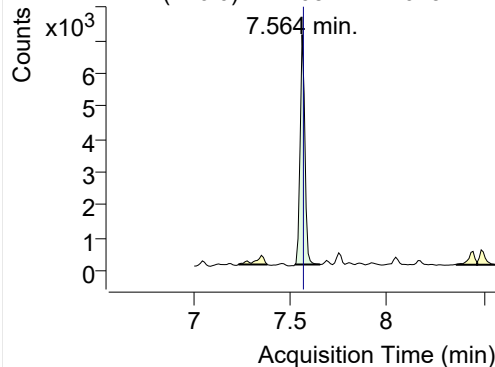


+ SIM (6.451-6.546 min, 17 scans) (**) 221208

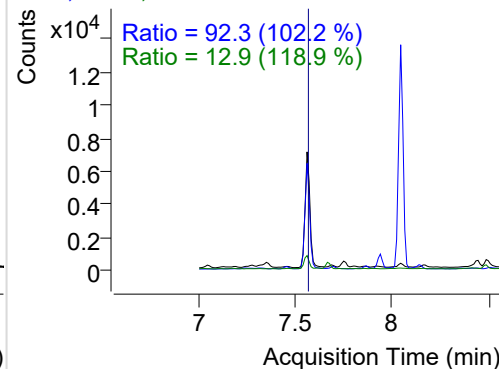


LSS-D10-Fluorene

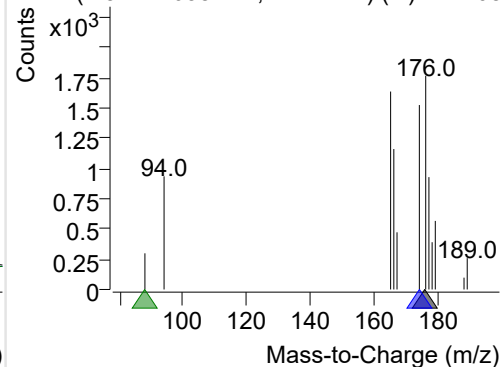
+ Selected Ion (176.0) 221208-PAHs-023.D



176.0, 174.0, 88.0

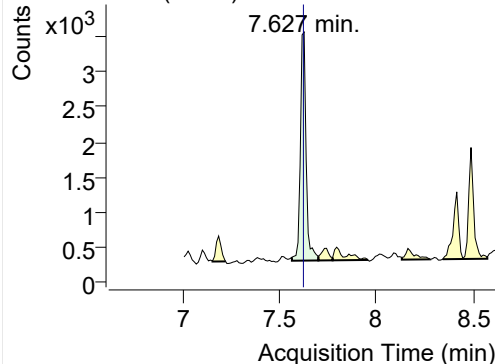


+ SIM (7.527-7.658 min, 12 scans) (**) 221208

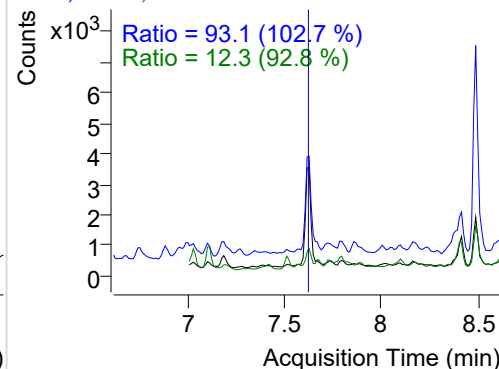


Fluorene

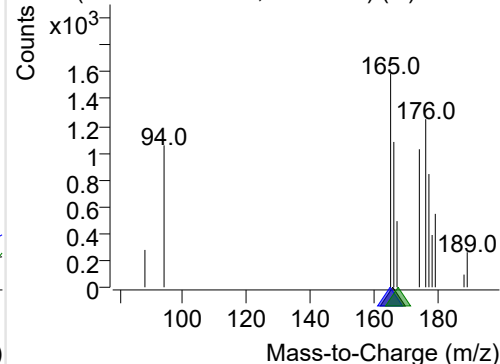
+ Selected Ion (166.0) 221208-PAHs-023.D



166.0, 165.0, 167.0

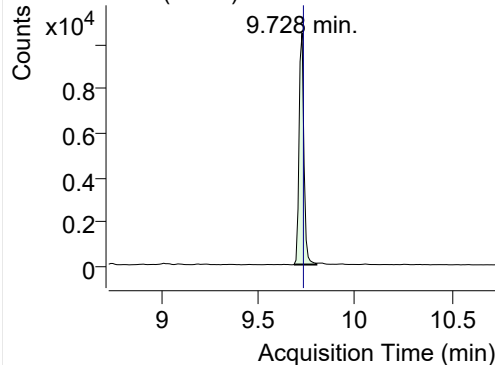


+ SIM (7.564-7.701 min, 14 scans) (**) 221208

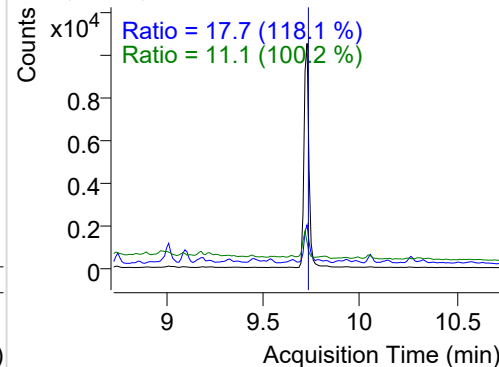


IS-D10-Phenanthrene

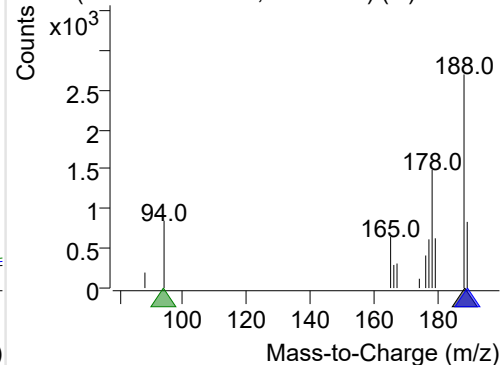
+ Selected Ion (188.0) 221208-PAHs-023.D



188.0, 189.0, 94.0

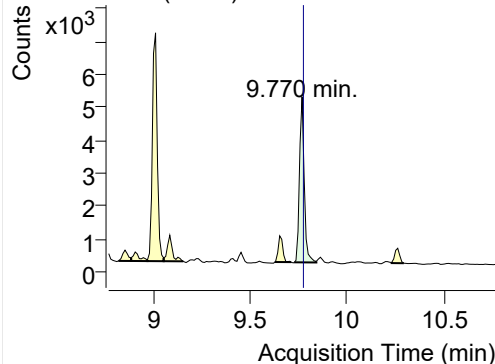


+ SIM (9.686-9.801 min, 11 scans) (**) 221208

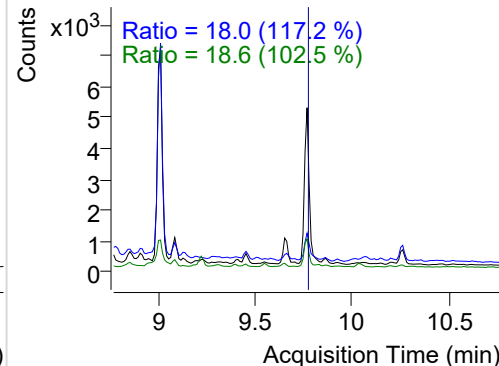


Phenanthrene

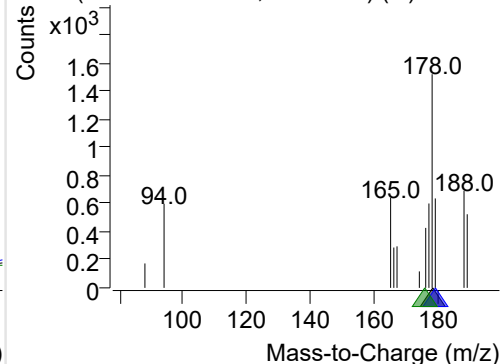
+ Selected Ion (178.0) 221208-PAHs-023.D



178.0, 179.0, 176.0

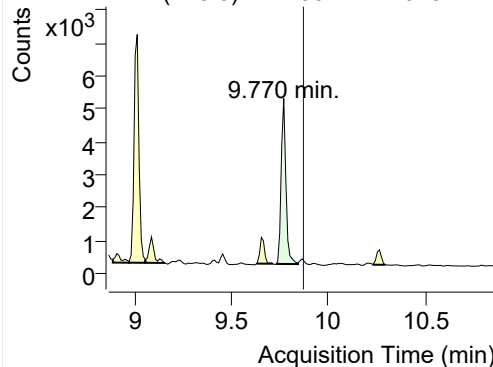


+ SIM (9.730-9.843 min, 11 scans) (**) 221208

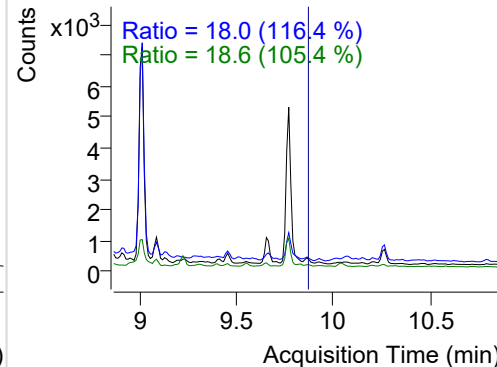


Anthracene

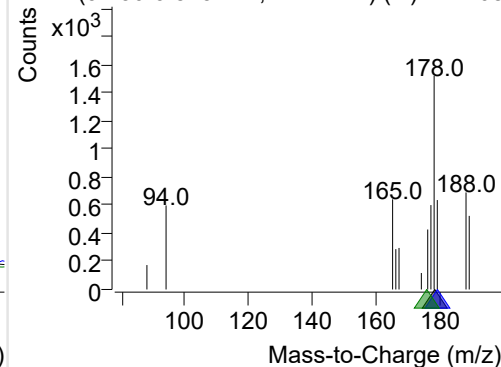
+ Selected Ion (178.0) 221208-PAHs-023.D



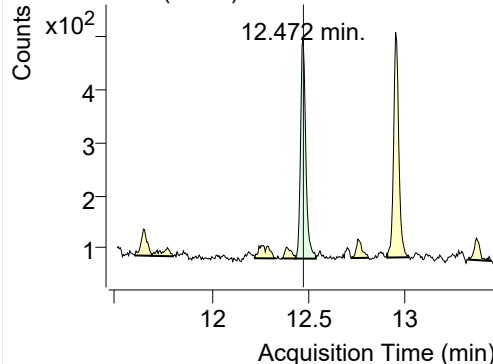
178.0, 179.0, 176.0



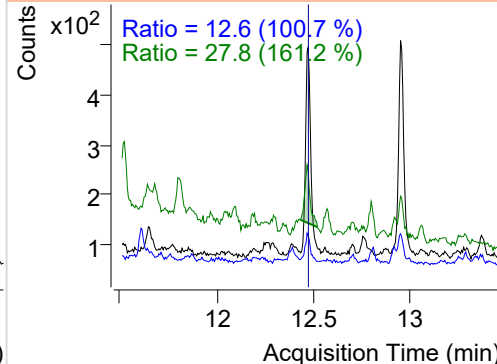
+ SIM (9.730-9.843 min, 11 scans) (**) 221208

**Fluoranthene**

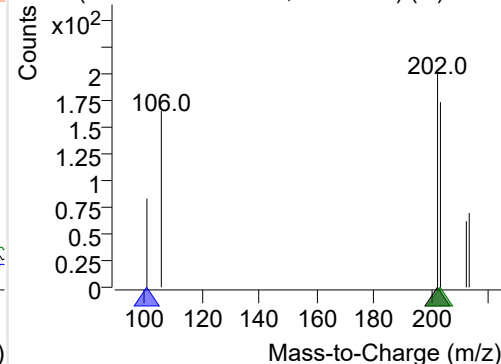
+ Selected Ion (202.0) 221208-PAHs-023.D



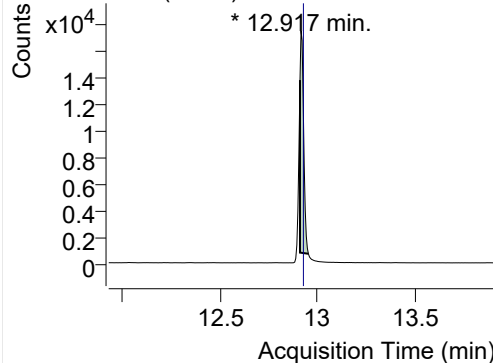
202.0, 101.0, 203.0



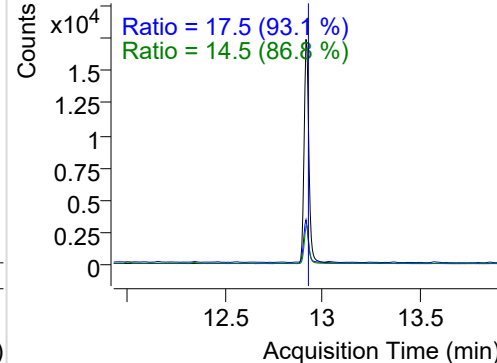
+ SIM (12.434-12.537 min, 20 scans) (**) 2212

**LSS-D10-Pyrene**

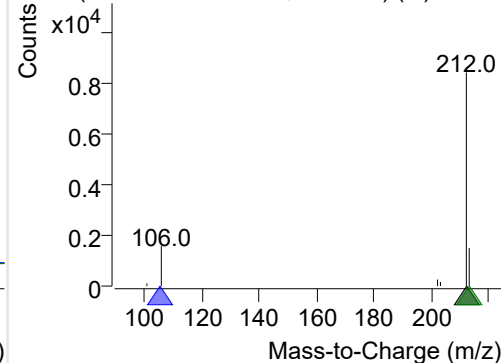
+ Selected Ion (212.0) 221208-PAHs-023.D



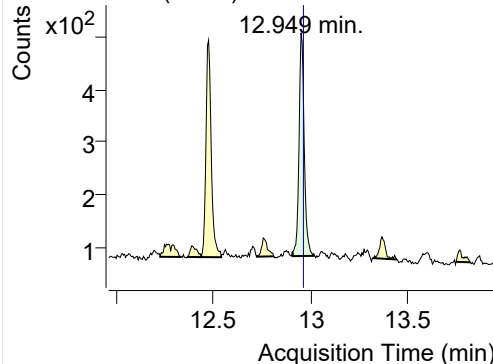
212.0, 106.0, 213.0



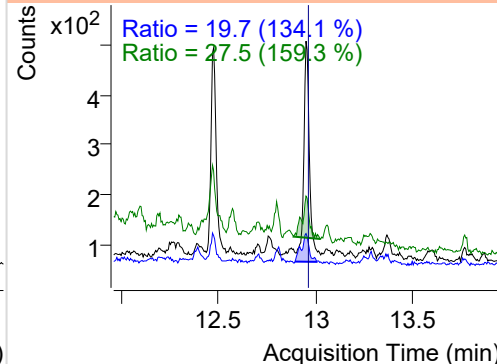
+ SIM (12.911-12.955 min, 9 scans) (**) 22120

**Pyrene**

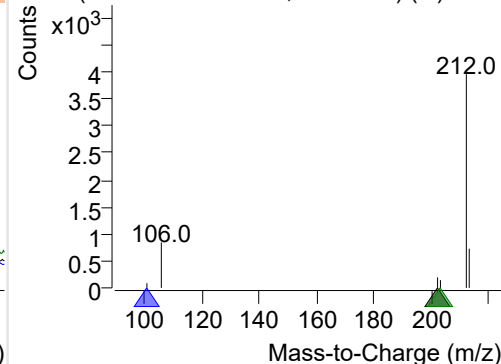
+ Selected Ion (202.0) 221208-PAHs-023.D



202.0, 101.0, 203.0



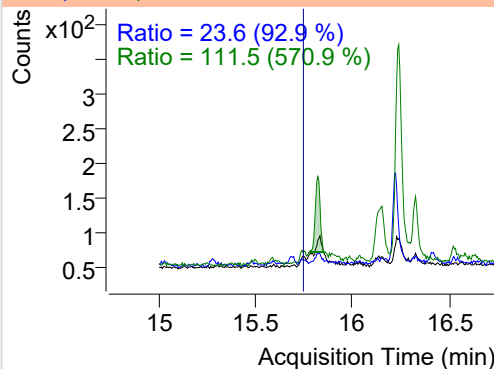
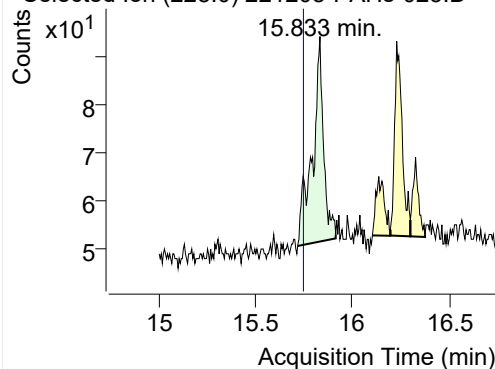
+ SIM (12.906-13.020 min, 22 scans) (**) 2212



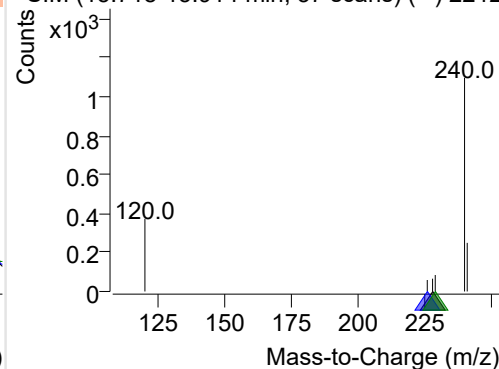
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-023.D

228.0, 226.0, 229.0

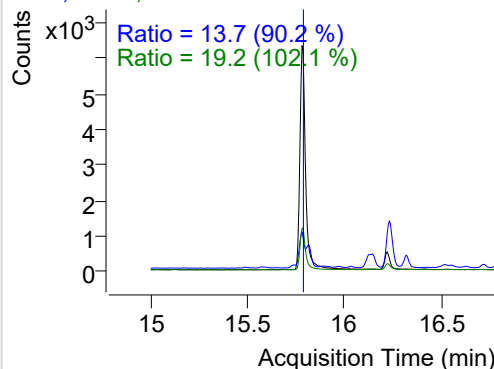
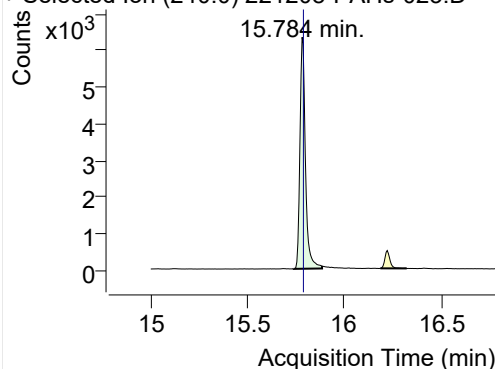


+ SIM (15.718-15.914 min, 37 scans) (**) 2212

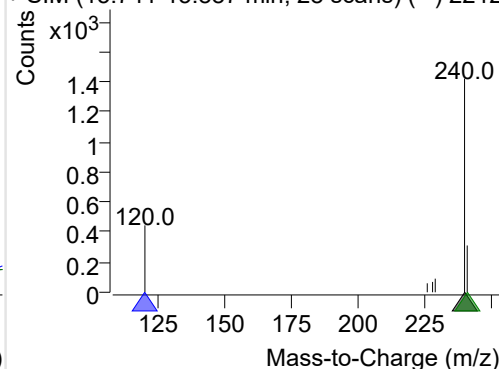
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-023.D

240.0, 120.0, 241.0

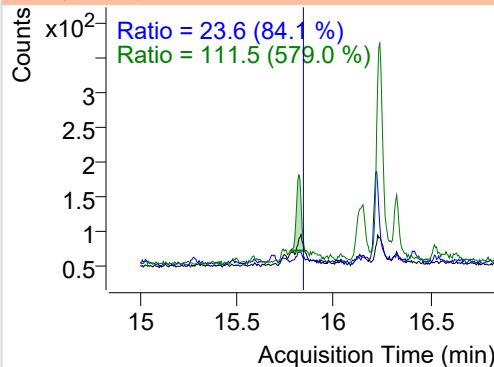
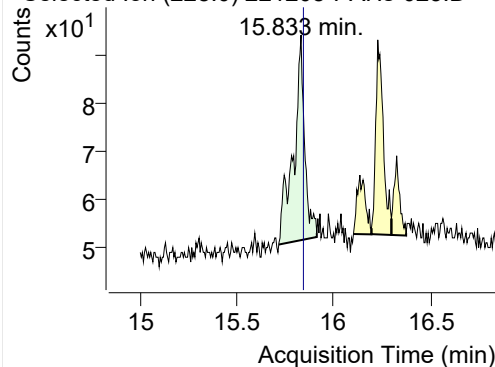


+ SIM (15.741-15.887 min, 28 scans) (**) 2212

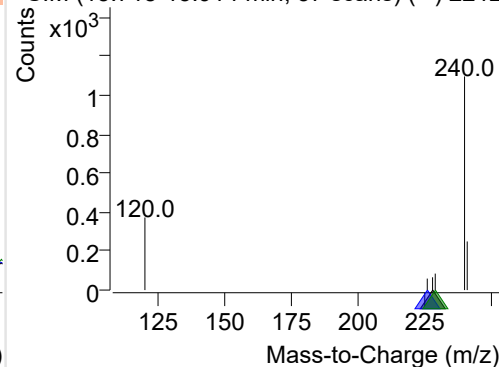
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-023.D

228.0, 226.0, 229.0

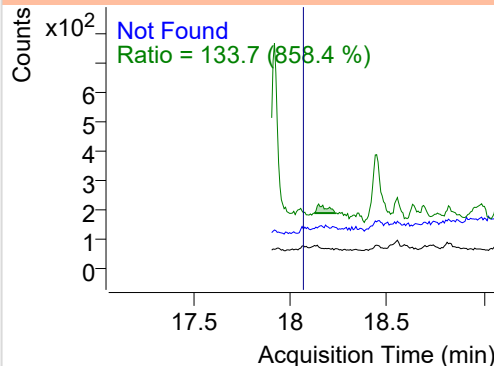
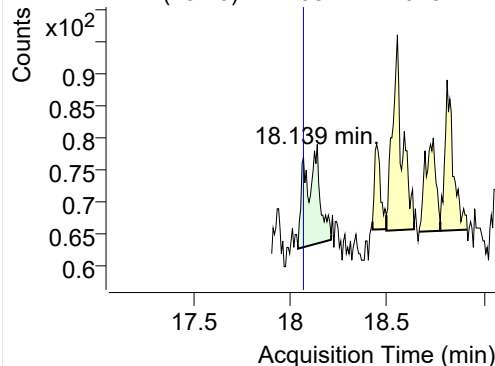


+ SIM (15.718-15.914 min, 37 scans) (**) 2212

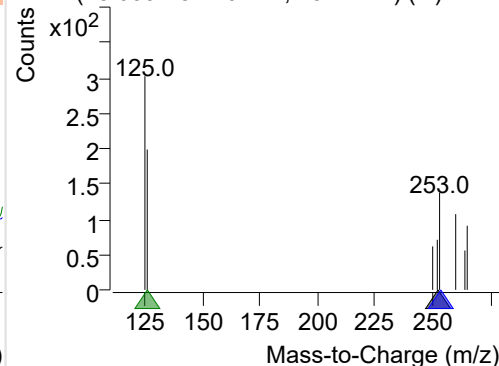
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-023.D

252.0, 253.0, 126.0



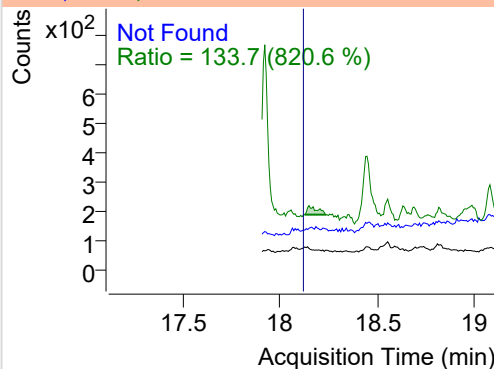
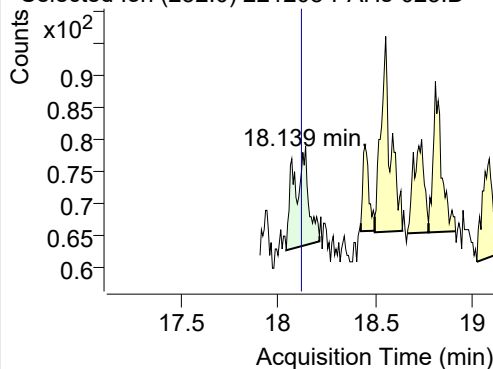
+ SIM (18.039-18.210 min, 25 scans) (**) 2212



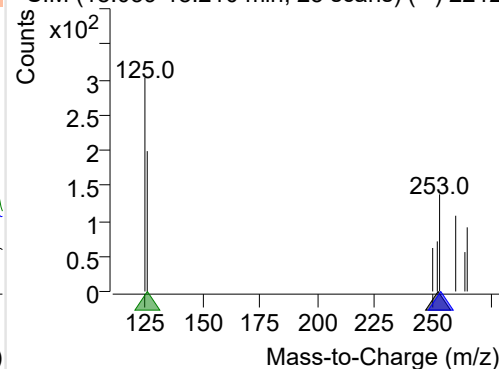
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-023.D

252.0, 253.0, 126.0

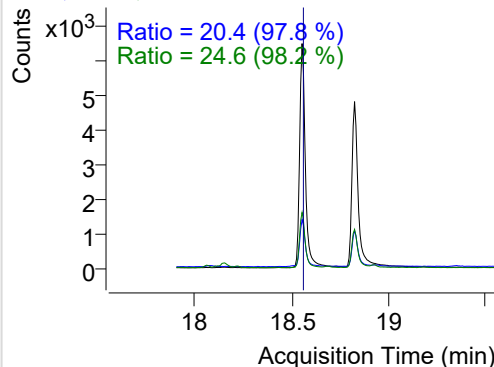
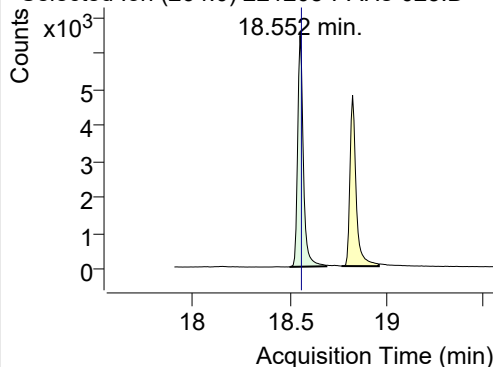


+ SIM (18.039-18.210 min, 25 scans) (**) 2212

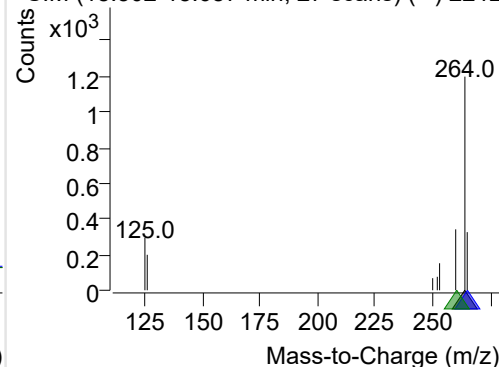
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-023.D

264.0, 265.0, 260.0

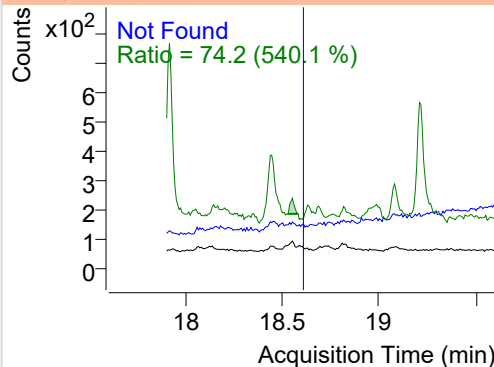
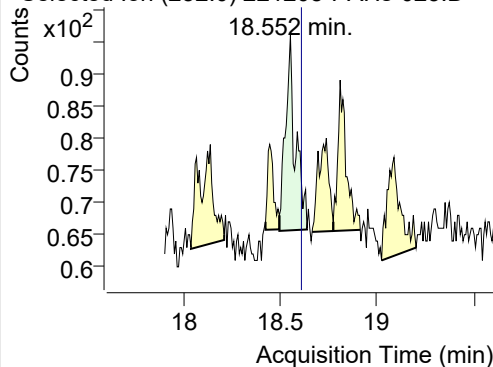


+ SIM (18.502-18.687 min, 27 scans) (**) 2212

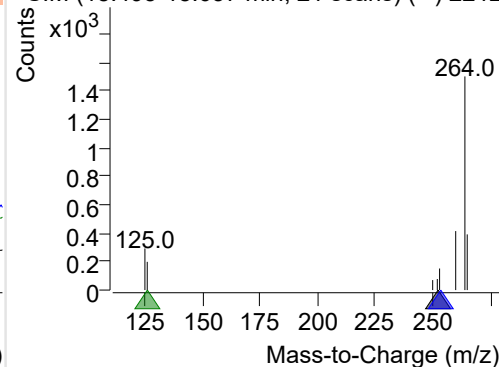
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-023.D

252.0, 253.0, 126.0

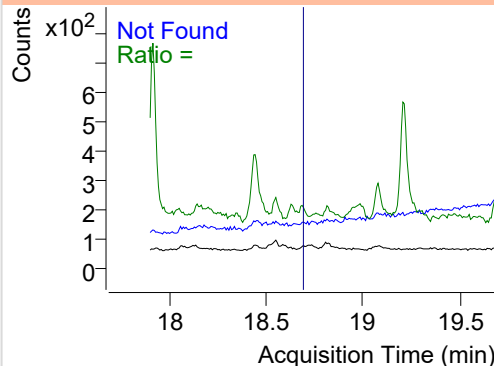
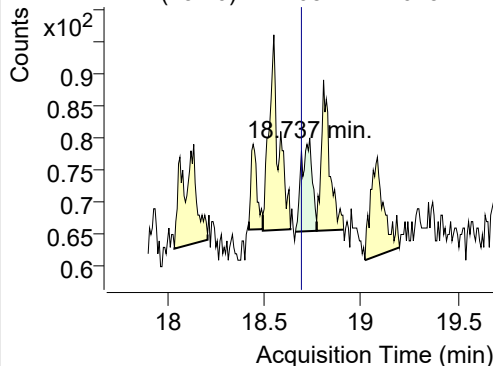


+ SIM (18.495-18.637 min, 21 scans) (**) 2212

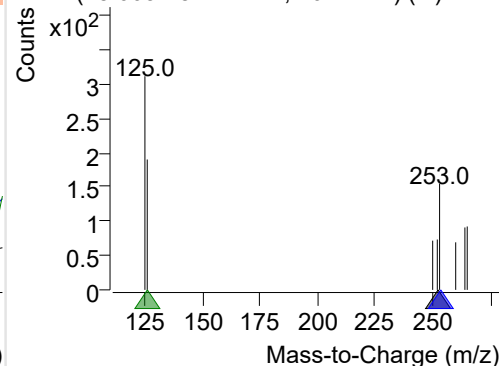
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-023.D

252.0, 253.0, 126.0

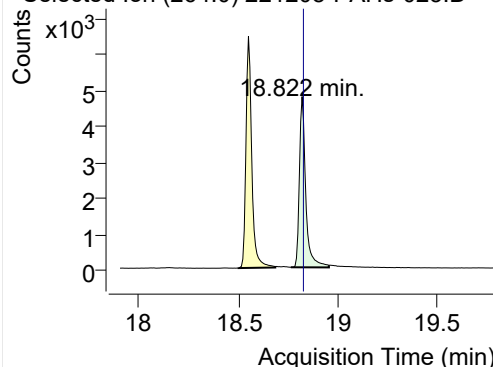


+ SIM (18.663-18.772 min, 16 scans) (**) 2212

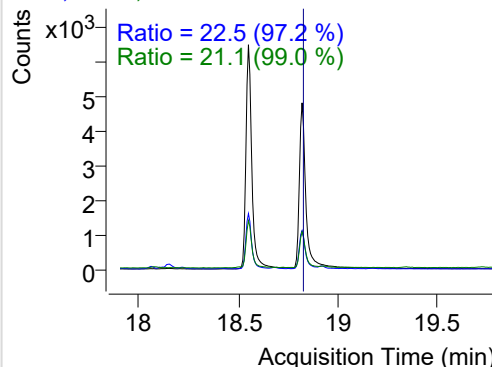


IS-D12-Perylene

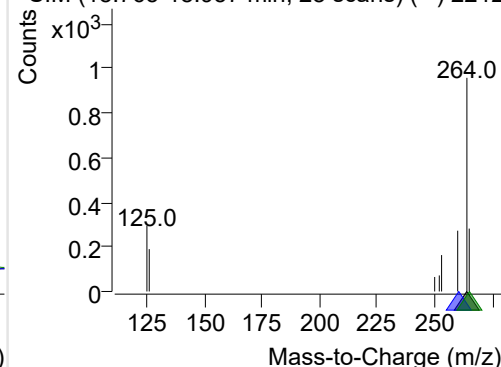
+ Selected Ion (264.0) 221208-PAHs-023.D



264.0, 260.0, 265.0

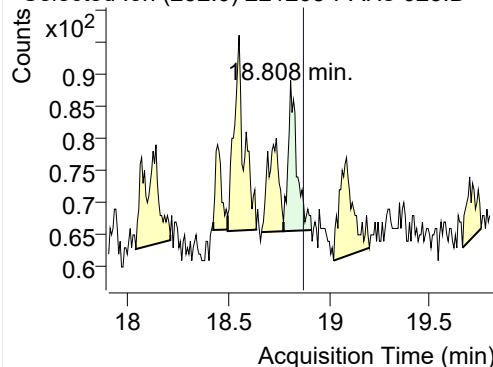


+ SIM (18.765-18.957 min, 28 scans) (**) 2212

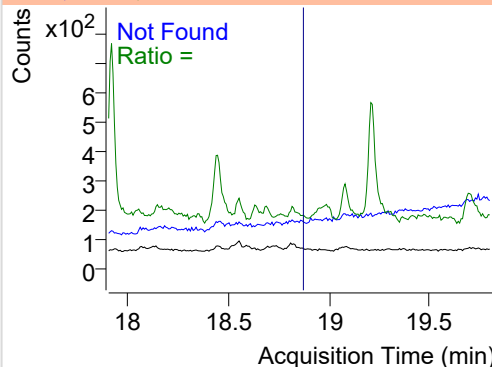


Perylene

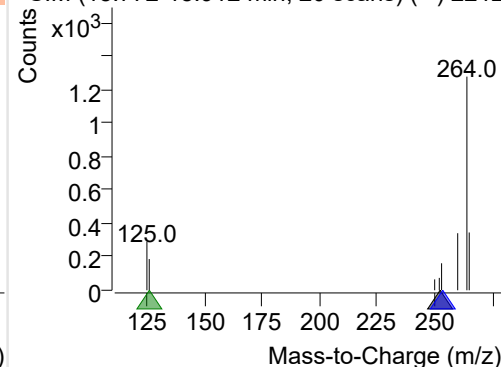
+ Selected Ion (252.0) 221208-PAHs-023.D



252.0, 253.0, 126.0

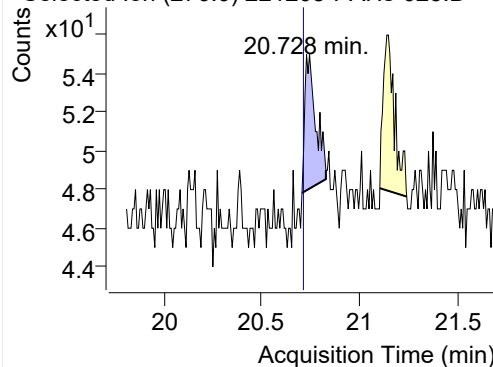


+ SIM (18.772-18.912 min, 20 scans) (**) 2212

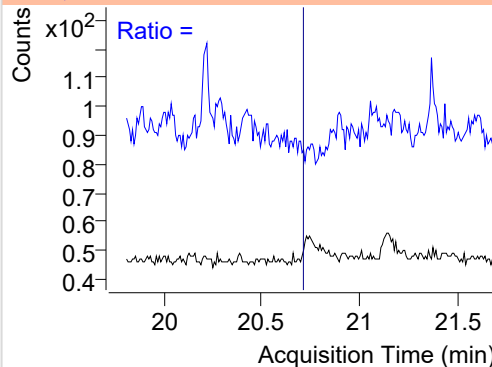


Indeno(1,2,3-c,d)pyrene

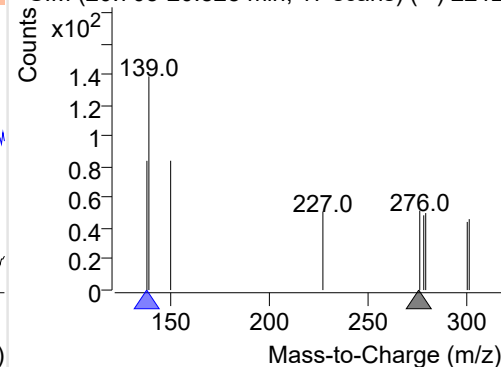
+ Selected Ion (276.0) 221208-PAHs-023.D



276.0, 138.0

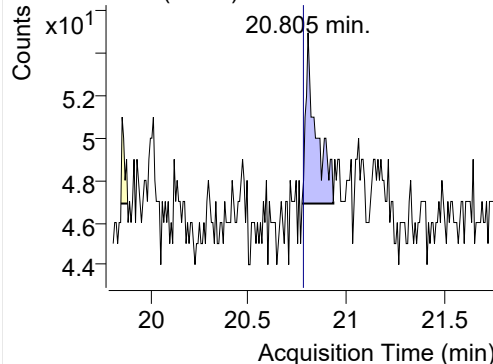


+ SIM (20.705-20.828 min, 17 scans) (**) 2212

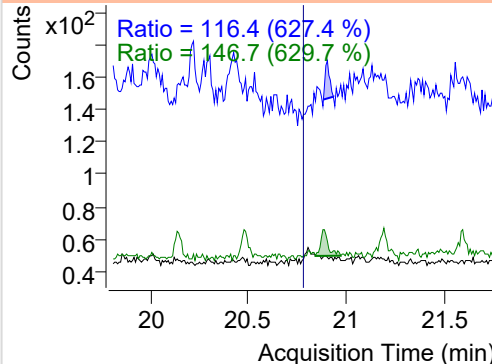


Dibenz(a,h)anthracene

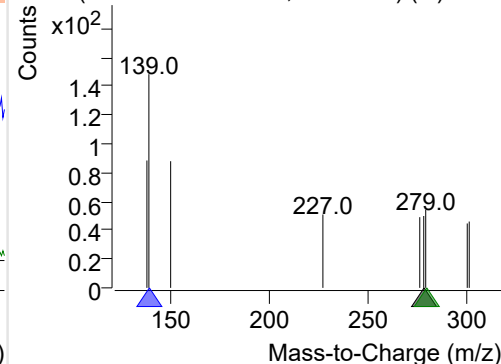
+ Selected Ion (278.0) 221208-PAHs-023.D



278.0, 139.0, 279.0

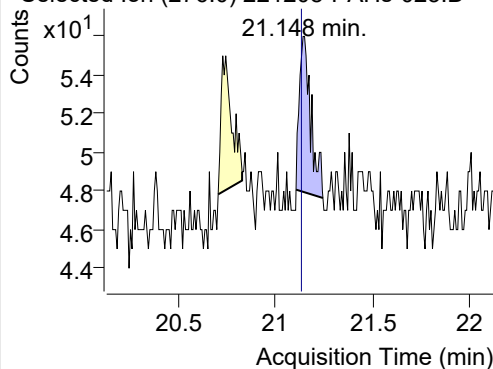


+ SIM (20.774-20.935 min, 22 scans) (**) 2212

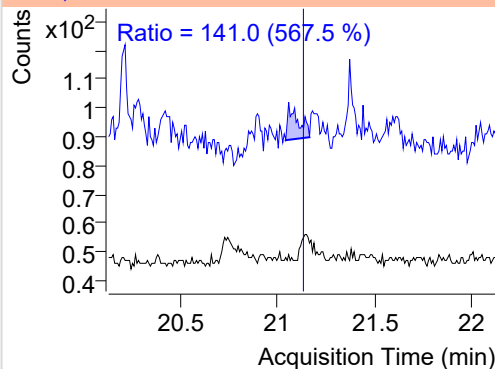


Benzo(g,h,i)perylene

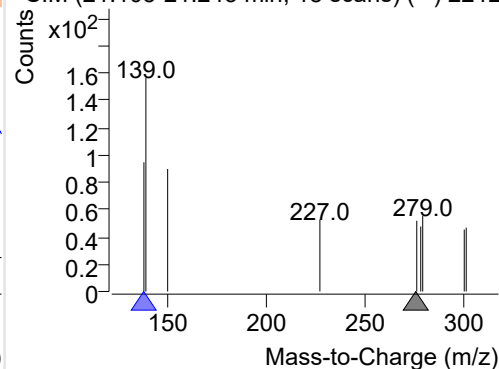
+ Selected Ion (276.0) 221208-PAHs-023.D



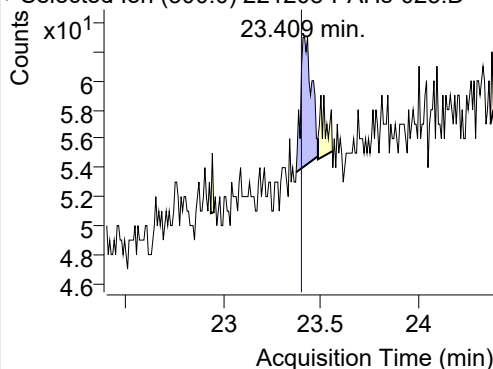
276.0, 138.0



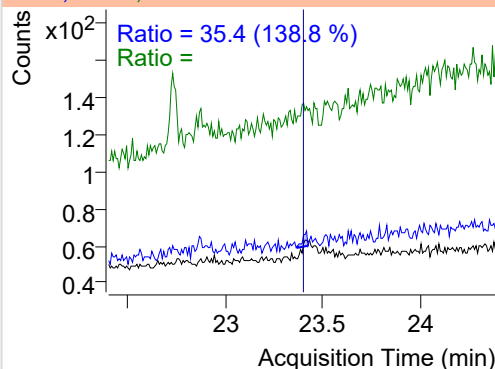
+ SIM (21.105-21.243 min, 18 scans) (**) 2212

**Coronene**

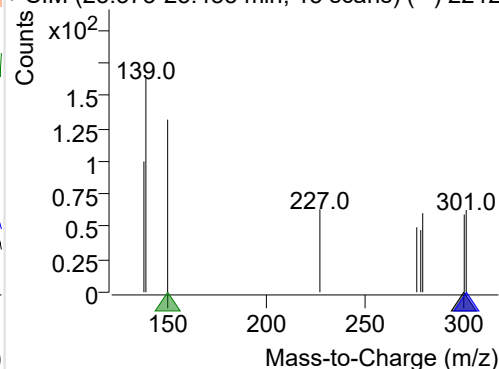
+ Selected Ion (300.0) 221208-PAHs-023.D



300.0, 301.0, 150.0



+ SIM (23.373-23.485 min, 15 scans) (**) 2212



Quantitative Analysis Sample Based Report

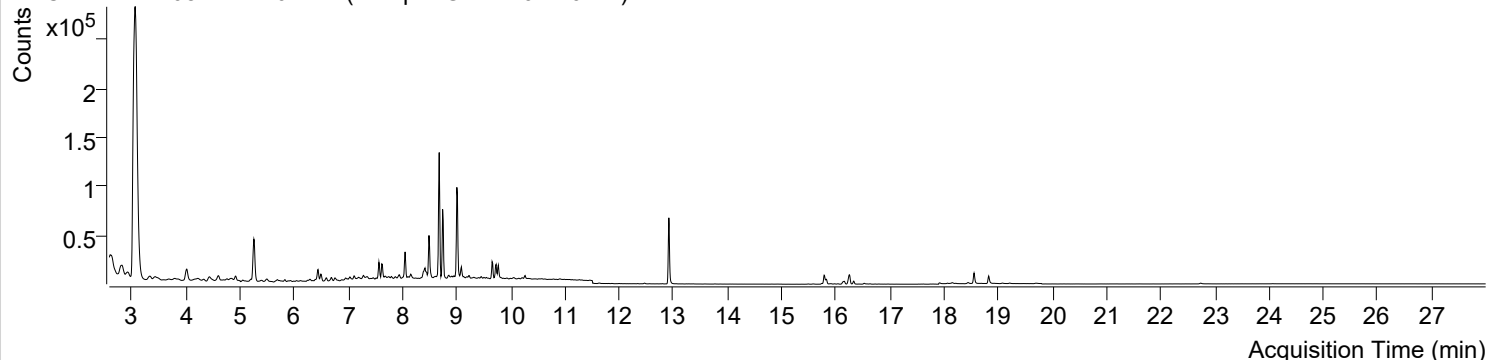


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 5:32:12	Data File	221208-PAHs-024.D
Type	Sample	Name	Sample-Gas-1107-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

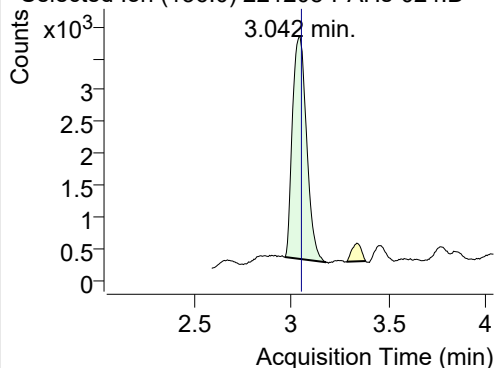
+ TIC SIM 221208-PAHs-024.D (Sample-Gas-1107-10DIL)



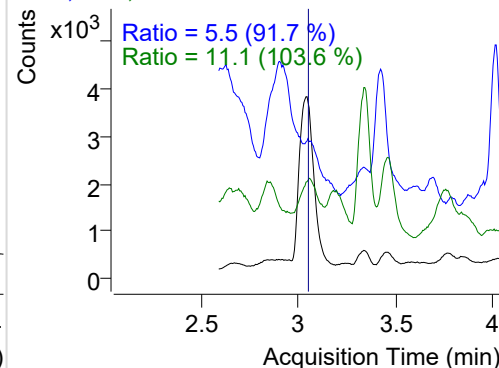
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	17737	3507.69	ND ng/ml	11.1
Naphthalene	3.063	128.0	1134383	221651.37	ND ng/ml	13.1
Acenaphthylene	6.493	152.0	3090	1497.51	ND ng/ml	50.2
IS-D10-Acenaphthene	6.439	164.0	11944	5735.96	ND ng/ml	89.6
Acenaphthene	6.498	154.0	3436	1644.01	ND ng/ml	96.8
LSS-D10-Fluorene	7.564	176.0	12094	7082.03	ND ng/ml	91.6
Fluorene	7.617	166.0	13655	7029.82	ND ng/ml	107.7
IS-D10-Phenanthrene	9.727	188.0	19407	11498.46	ND ng/ml	30.2
Phenanthrene	9.769	178.0	15393	8840.47	ND ng/ml	17.8
Anthracene	9.769	178.0	15393	8840.47	ND ng/ml	17.8
Fluoranthene	12.472	202.0	787	443.42	ND ng/ml	68.4
LSS-D10-Pyrene	12.922	212.0	24996	43492.15	ND ng/ml	20.9
Pyrene	12.949	202.0	1139	577.44	ND ng/ml	18.8
Benz(a)anthracene	15.746	228.0	57	29.14	ND ng/ml	38.4
IS-D12-Chrysene	15.784	240.0	12970	6655.78	ND ng/ml	20.7
Chrysene	15.827	228.0	318	123.56	ND ng/ml	26.3
Benzo(b)fluoranthene	18.075	252.0	42	19.07	ND ng/ml	
Benzo(k)fluoranthene	18.117	252.0	71	16.71	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.551	264.0	14297	7292.05	ND ng/ml	24.6
Benzo(e)pyrene	18.544	252.0	132	31.99	ND ng/ml	
Benzo(a)pyrene	18.694	252.0	133	40.97	ND ng/ml	11.2
IS-D12-Perylene	18.822	264.0	11469	5341.50	ND ng/ml	22.3
Perylene	18.815	252.0	70	27.66	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.736	276.0	17	7.57	ND ng/ml	
Dibenz(a,h)anthracene	20.789	278.0	21	5.40	ND ng/ml	159.0
Benzo(g,h,i)perylene	21.148	276.0	37	13.00	ND ng/ml	85.0
Coronene	23.408	300.0	46	13.33	ND ng/ml	

IS-D8-Naphthalene

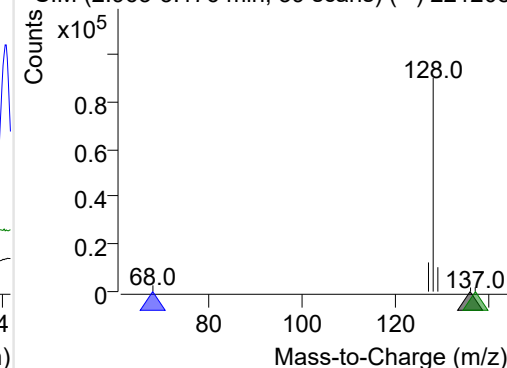
+ Selected Ion (136.0) 221208-PAHs-024.D



136.0, 68.0, 137.0

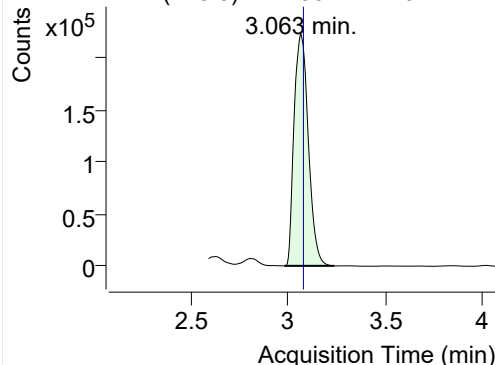


+ SIM (2.963-3.176 min, 39 scans) (**) 221208

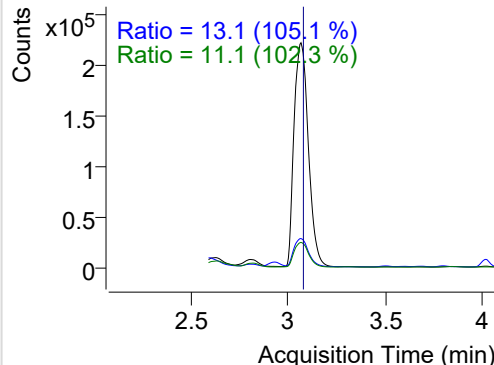


Naphthalene

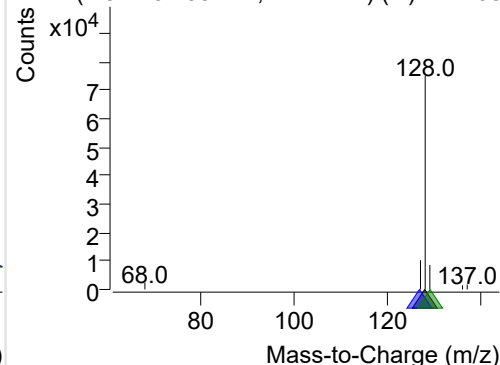
+ Selected Ion (128.0) 221208-PAHs-024.D



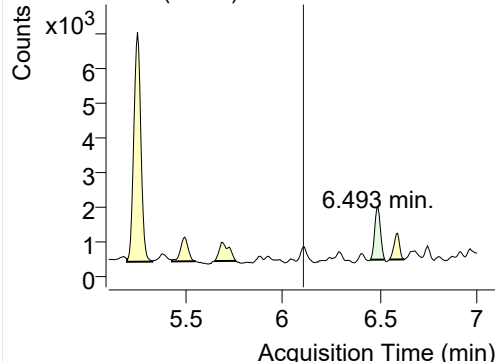
128.0, 127.0, 129.0



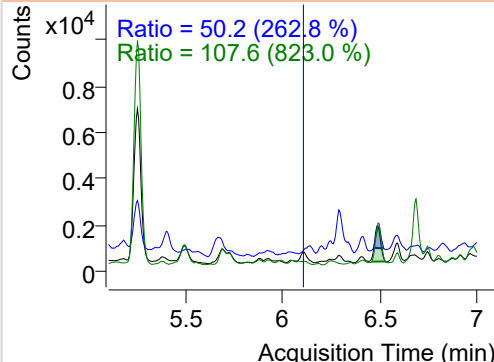
+ SIM (2.977-3.235 min, 47 scans) (**) 221208

**Acenaphthylene**

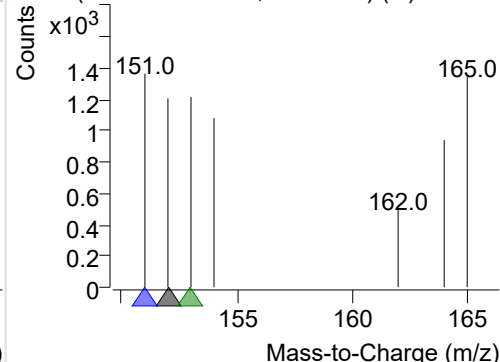
+ Selected Ion (152.0) 221208-PAHs-024.D



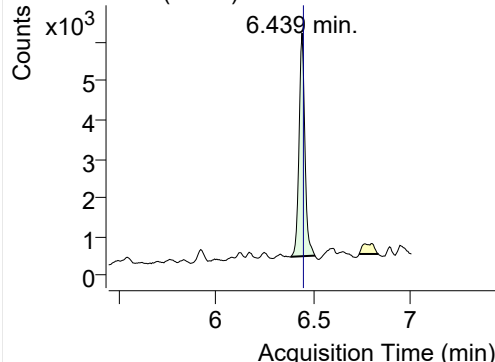
152.0, 151.0, 153.0



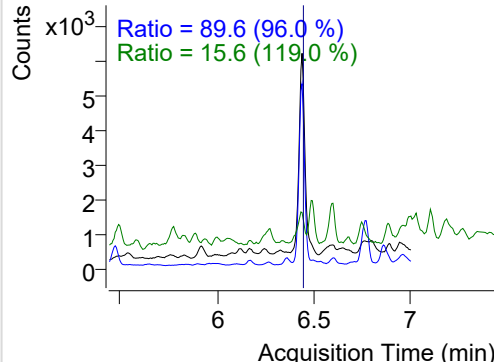
+ SIM (6.453-6.527 min, 12 scans) (**) 221208

**IS-D10-Acenaphthene**

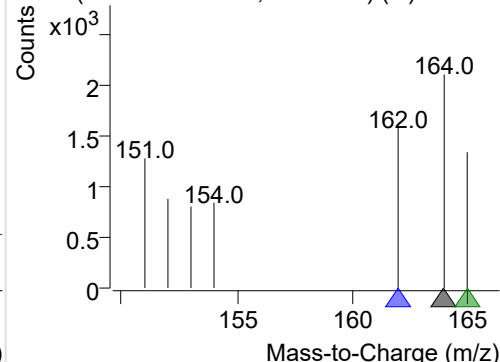
+ Selected Ion (164.0) 221208-PAHs-024.D



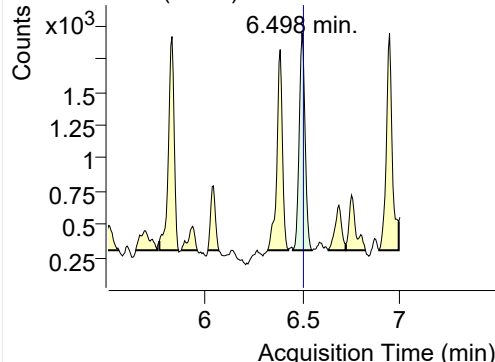
164.0, 162.0, 165.0



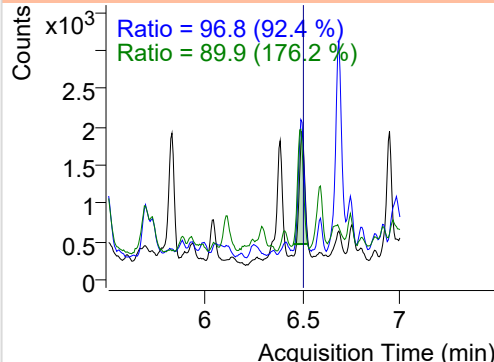
+ SIM (6.381-6.506 min, 21 scans) (**) 221208

**Acenaphthene**

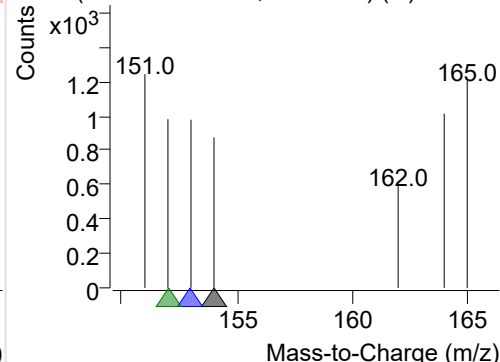
+ Selected Ion (154.0) 221208-PAHs-024.D



154.0, 153.0, 152.0

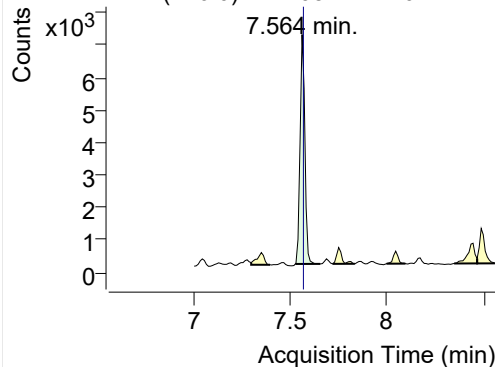


+ SIM (6.451-6.550 min, 17 scans) (**) 221208

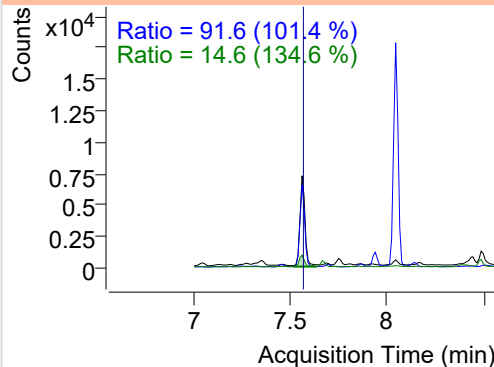


LSS-D10-Fluorene

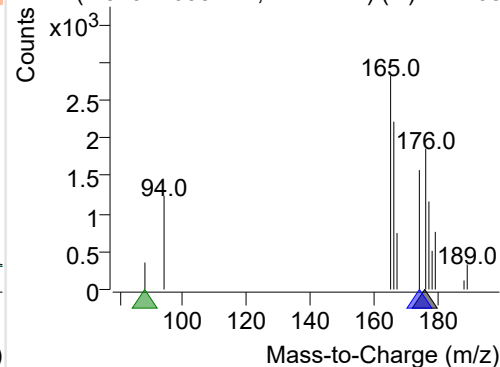
+ Selected Ion (176.0) 221208-PAHs-024.D



176.0, 174.0, 88.0

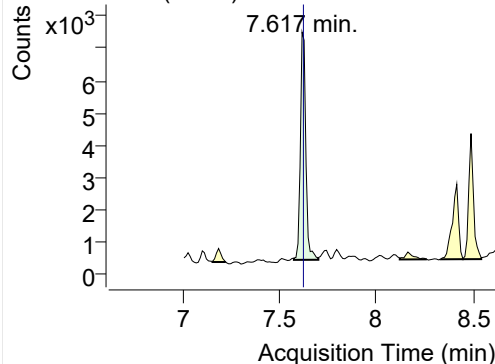


+ SIM (7.529-7.658 min, 12 scans) (**) 221208

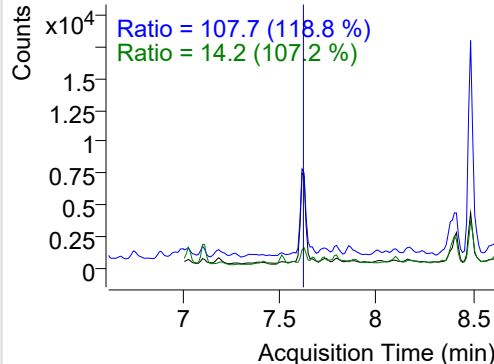


Fluorene

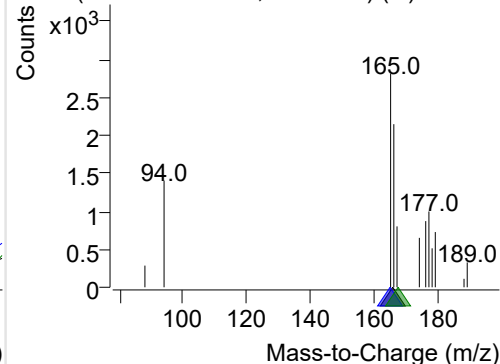
+ Selected Ion (166.0) 221208-PAHs-024.D



166.0, 165.0, 167.0

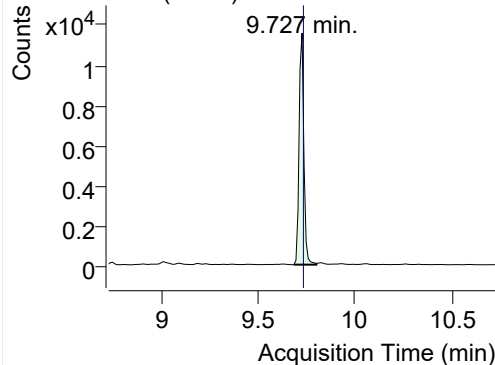


+ SIM (7.575-7.701 min, 13 scans) (**) 221208

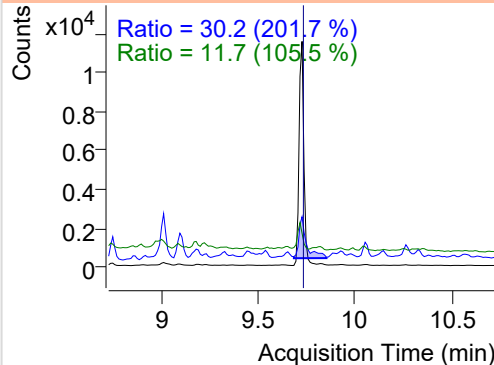


IS-D10-Phenanthrene

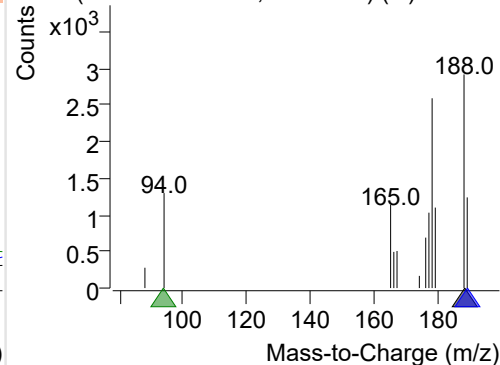
+ Selected Ion (188.0) 221208-PAHs-024.D



188.0, 189.0, 94.0

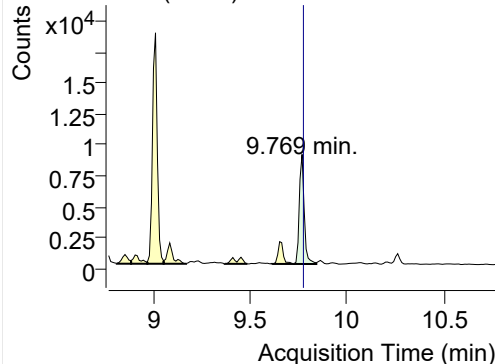


+ SIM (9.685-9.801 min, 11 scans) (**) 221208

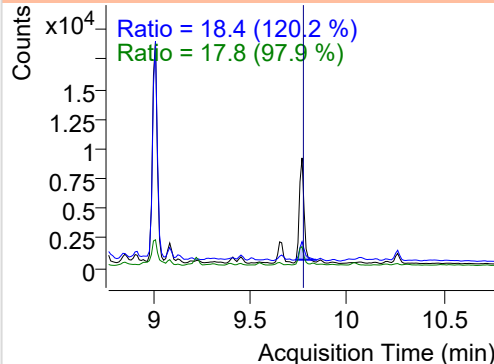


Phenanthrene

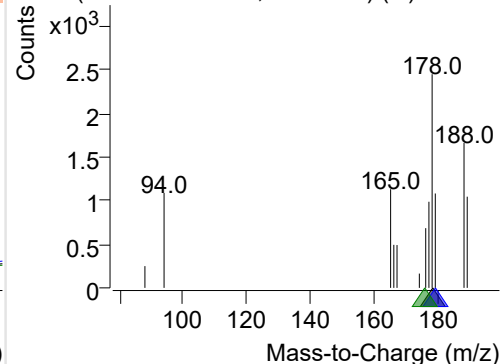
+ Selected Ion (178.0) 221208-PAHs-024.D



178.0, 179.0, 176.0

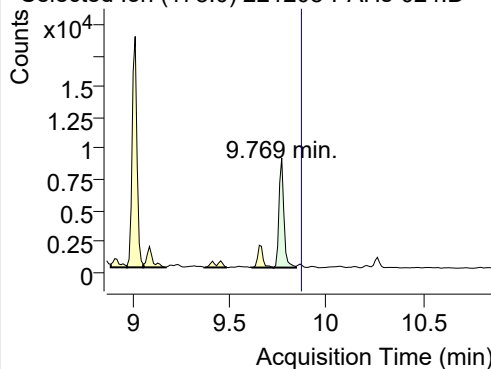


+ SIM (9.727-9.843 min, 12 scans) (**) 221208

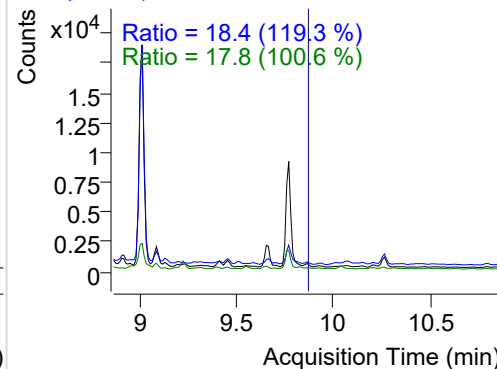


Anthracene

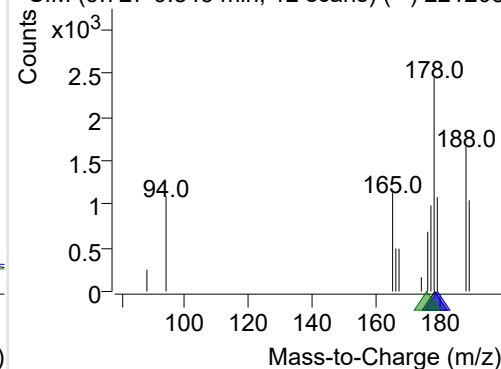
+ Selected Ion (178.0) 221208-PAHs-024.D



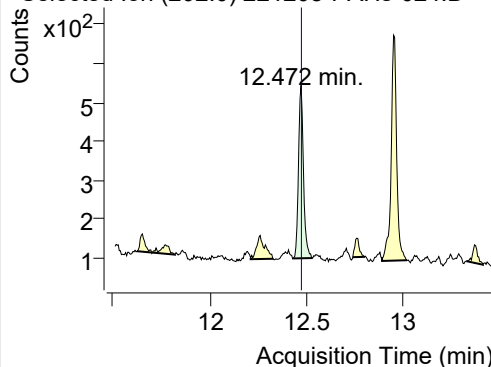
178.0, 179.0, 176.0



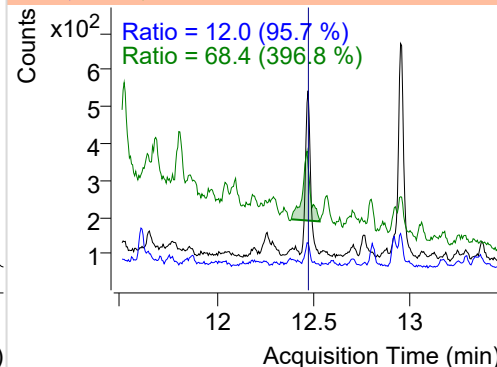
+ SIM (9.727-9.843 min, 12 scans) (**) 221208

**Fluoranthene**

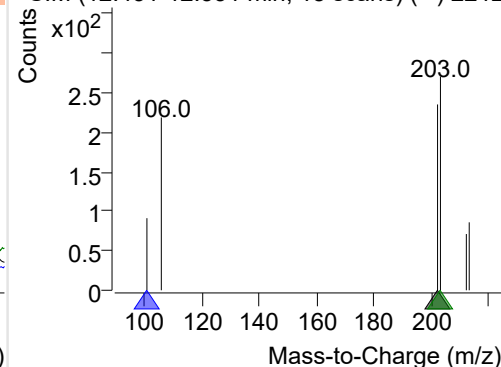
+ Selected Ion (202.0) 221208-PAHs-024.D



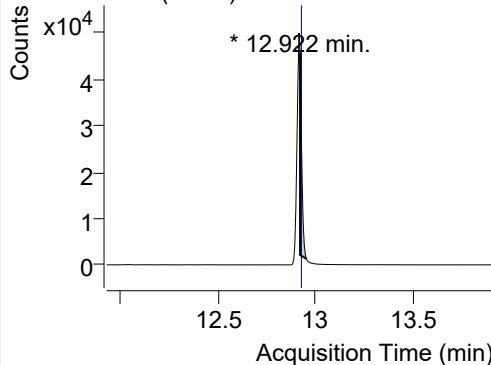
202.0, 101.0, 203.0



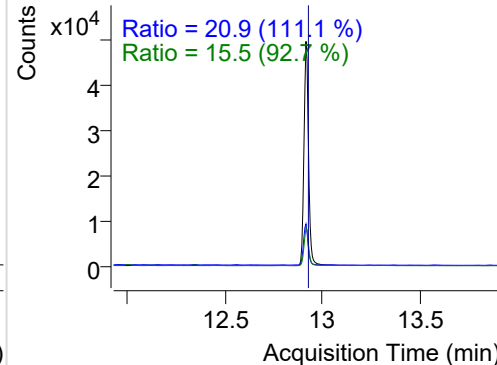
+ SIM (12.431-12.531 min, 18 scans) (**) 2212

**LSS-D10-Pyrene**

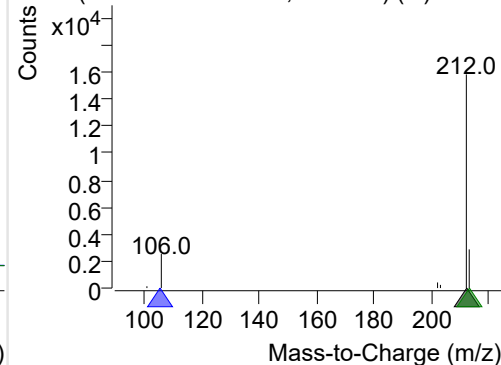
+ Selected Ion (212.0) 221208-PAHs-024.D



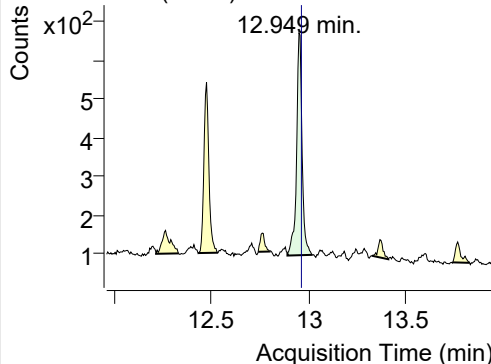
212.0, 106.0, 213.0



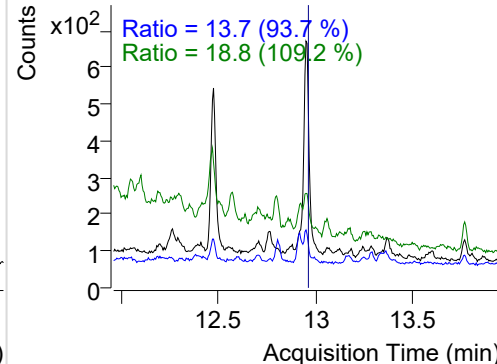
+ SIM (12.922-12.954 min, 7 scans) (**) 22120

**Pyrene**

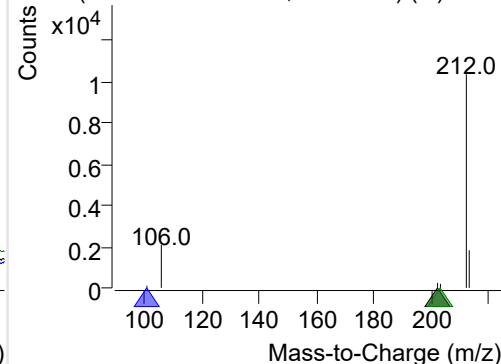
+ Selected Ion (202.0) 221208-PAHs-024.D



202.0, 101.0, 203.0



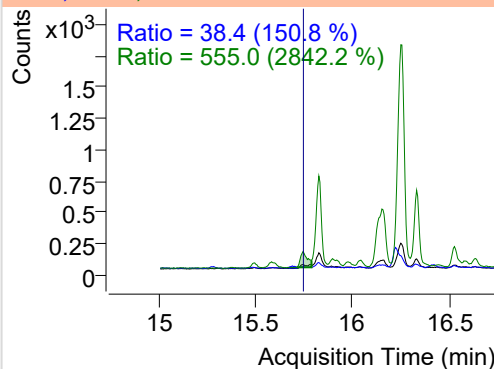
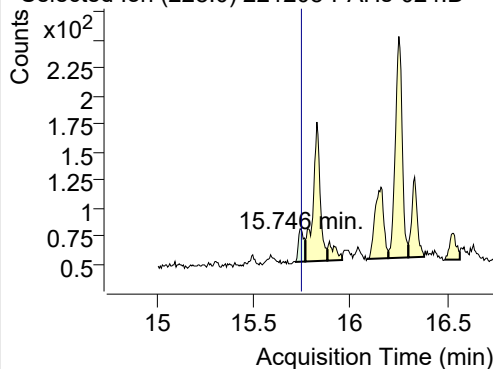
+ SIM (12.889-13.018 min, 24 scans) (**) 2212



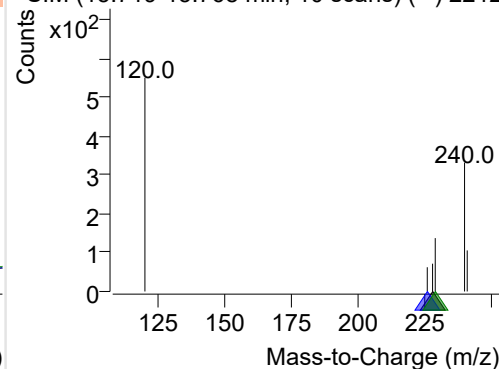
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-024.D

228.0, 226.0, 229.0

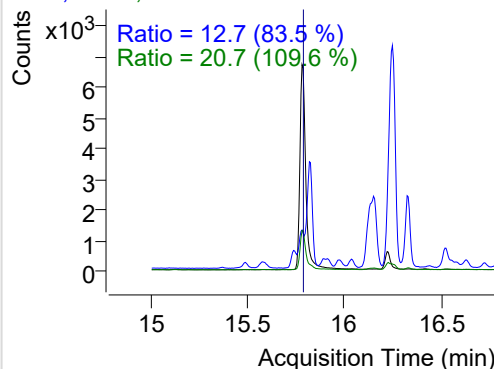
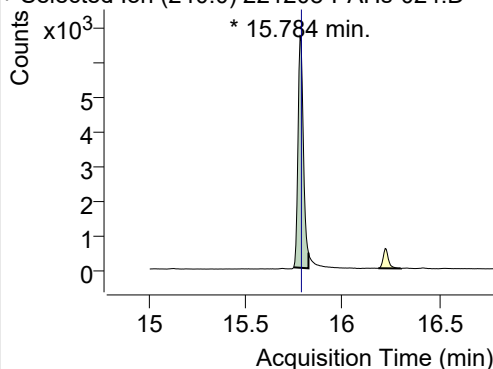


+ SIM (15.719-15.768 min, 10 scans) (**) 2212

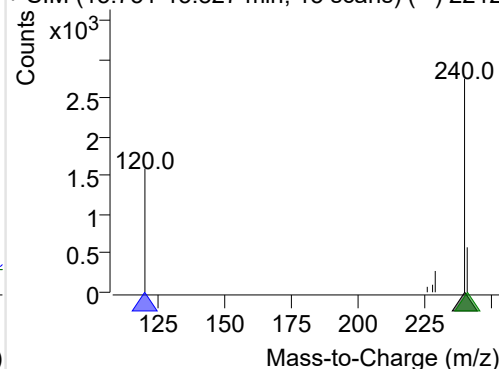
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-024.D

240.0, 120.0, 241.0

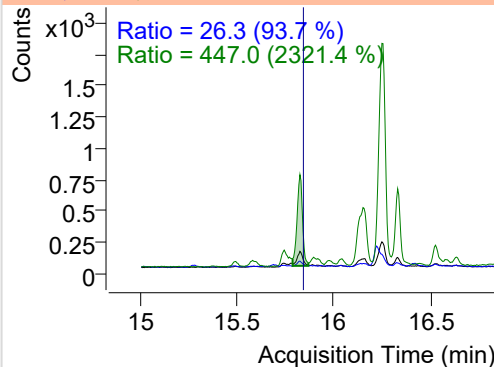
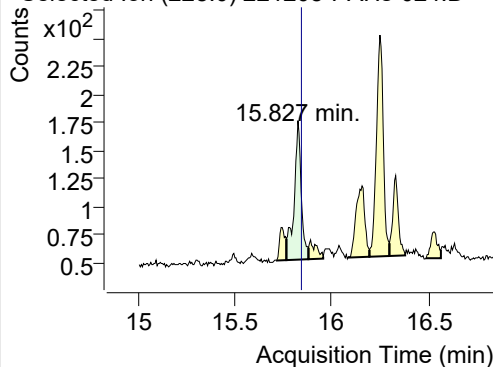


+ SIM (15.751-15.827 min, 15 scans) (**) 2212

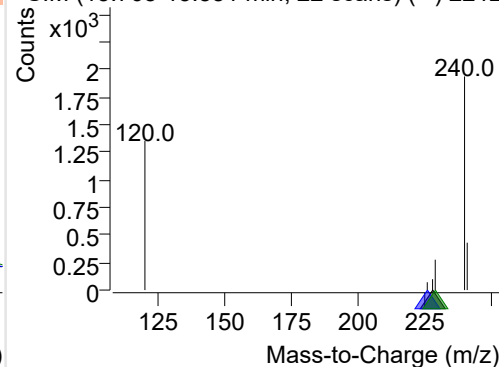
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-024.D

228.0, 226.0, 229.0

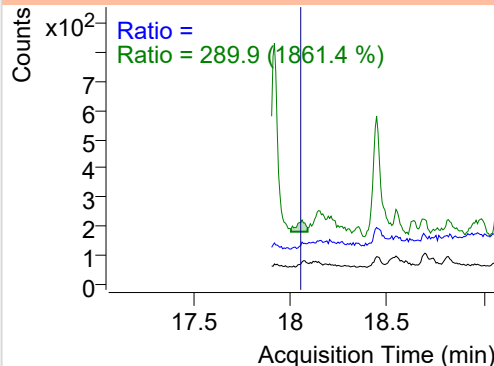
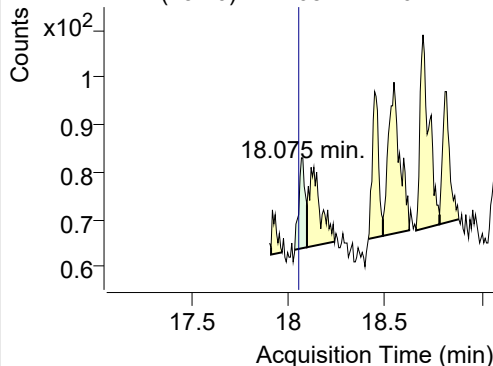


+ SIM (15.768-15.881 min, 22 scans) (**) 2212

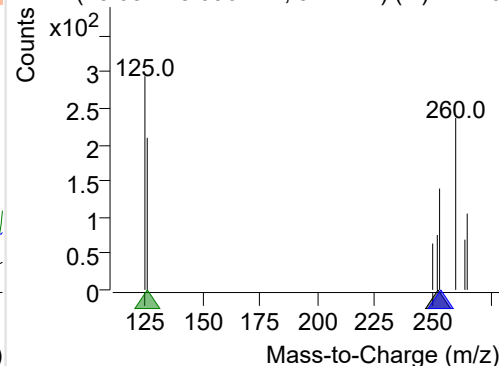
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-024.D

252.0, 253.0, 126.0



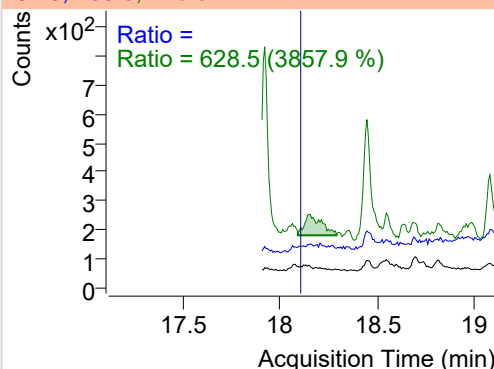
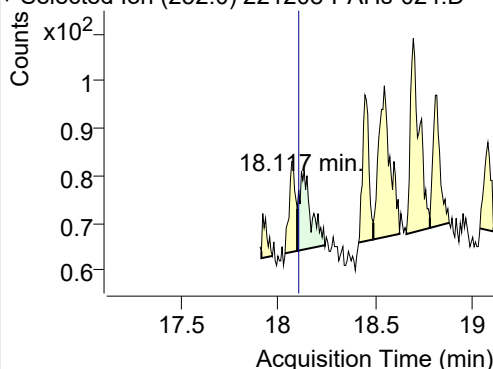
+ SIM (18.032-18.096 min, 9 scans) (**) 22120



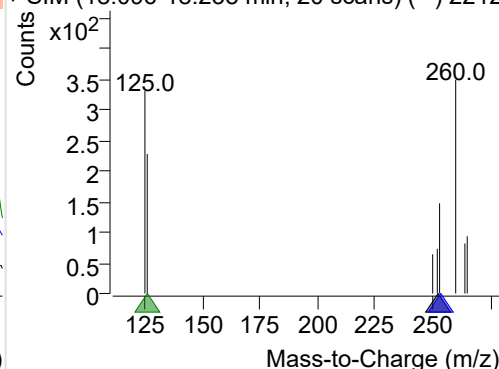
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-024.D

252.0, 253.0, 126.0

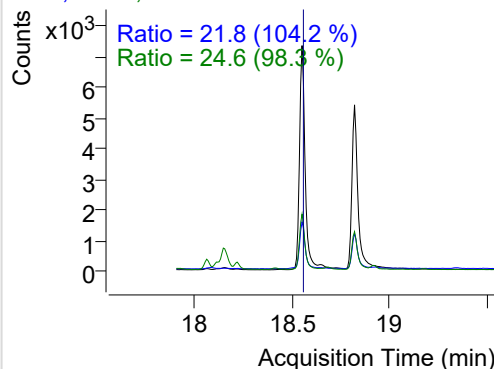
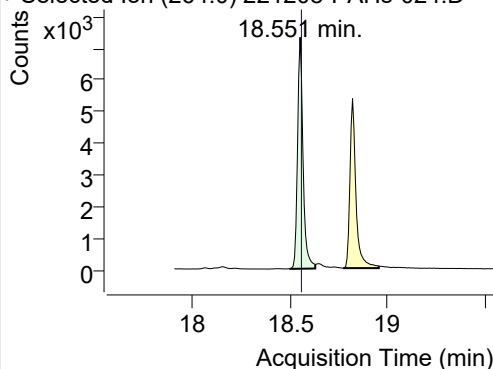


+ SIM (18.096-18.238 min, 20 scans) (**) 2212

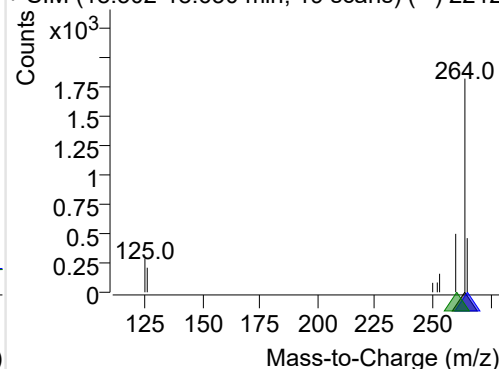
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-024.D

264.0, 265.0, 260.0

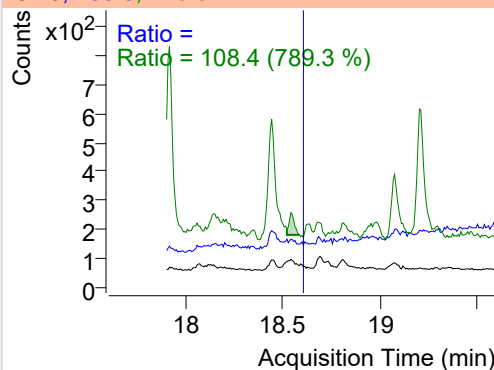
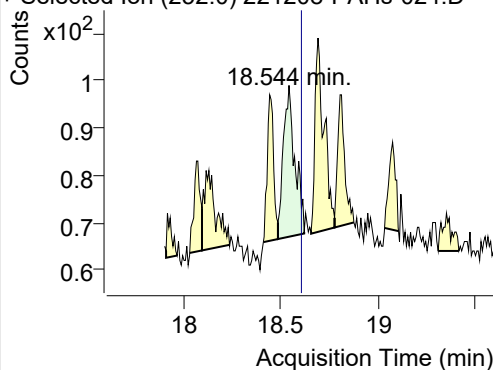


+ SIM (18.502-18.630 min, 19 scans) (**) 2212

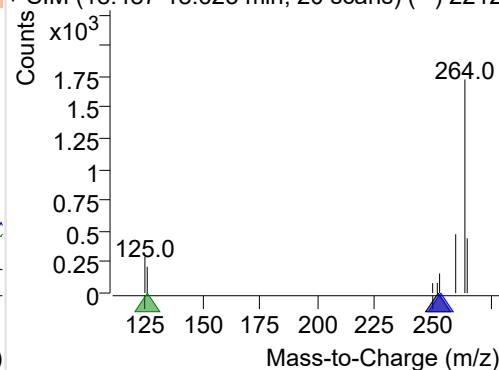
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-024.D

252.0, 253.0, 126.0

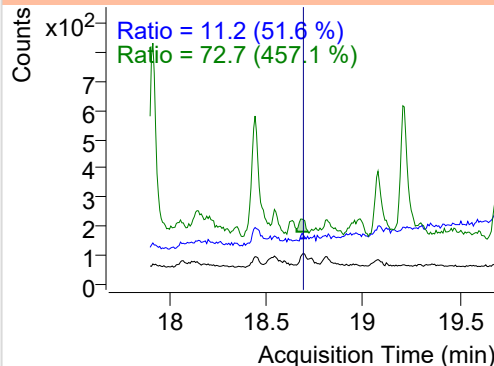
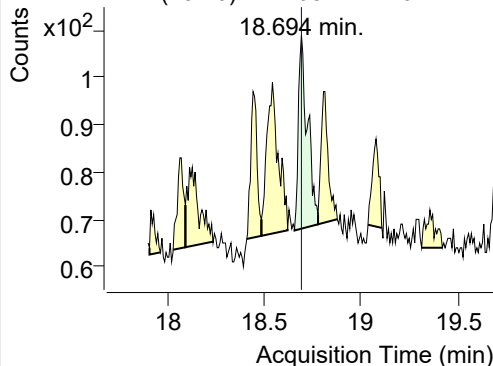


+ SIM (18.487-18.623 min, 20 scans) (**) 2212

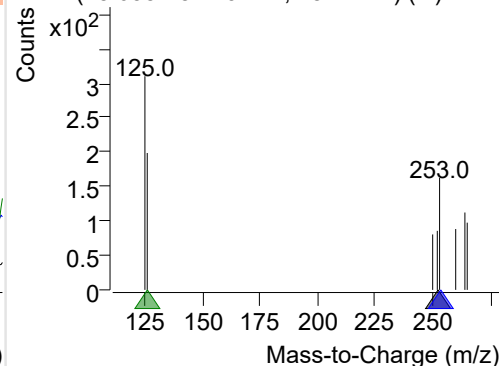
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-024.D

252.0, 253.0, 126.0

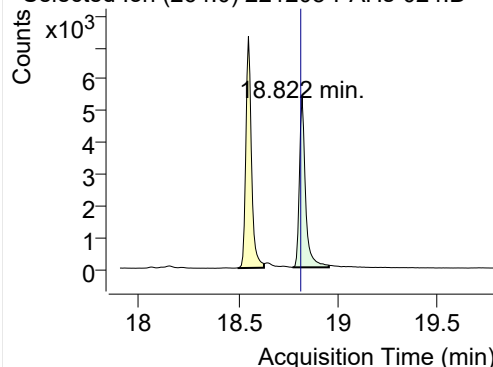


+ SIM (18.658-18.779 min, 18 scans) (**) 2212

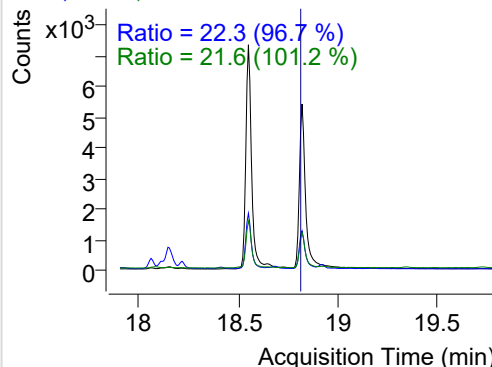


IS-D12-Perylene

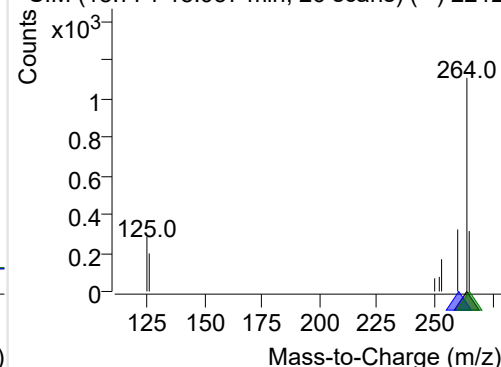
+ Selected Ion (264.0) 221208-PAHs-024.D



264.0, 260.0, 265.0

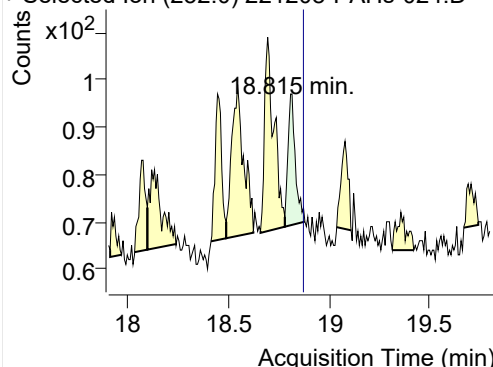


+ SIM (18.774-18.957 min, 26 scans) (**) 2212

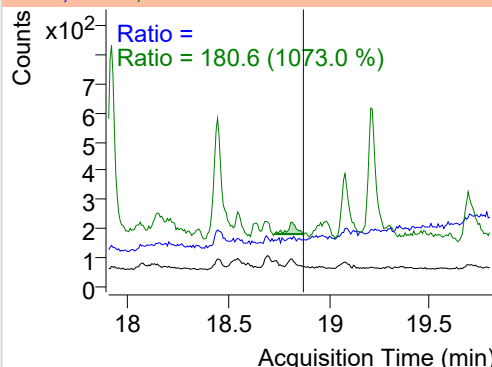


Perylene

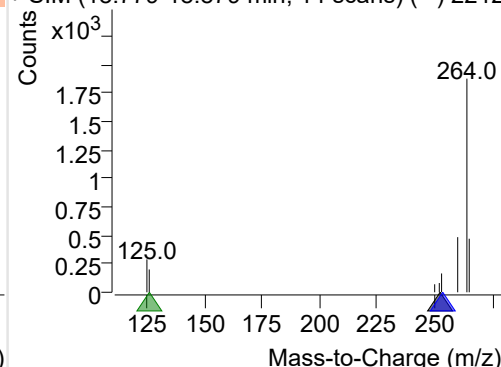
+ Selected Ion (252.0) 221208-PAHs-024.D



252.0, 253.0, 126.0

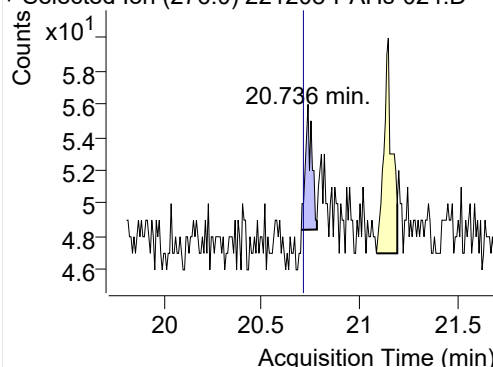


+ SIM (18.779-18.879 min, 14 scans) (**) 2212

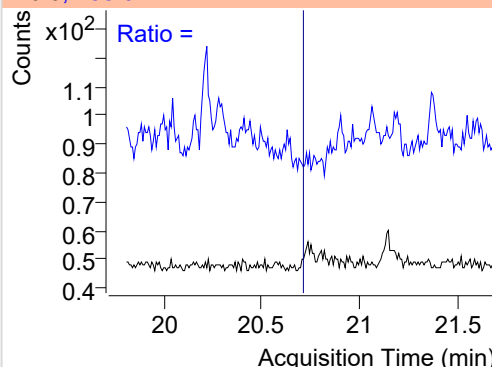


Indeno(1,2,3-c,d)pyrene

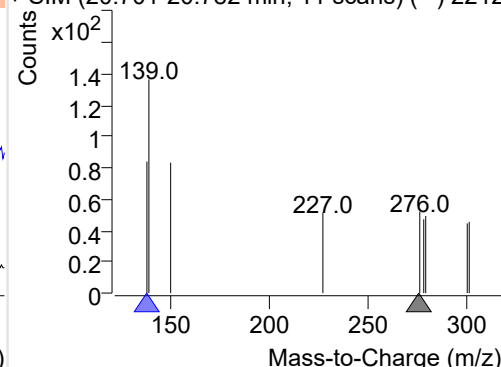
+ Selected Ion (276.0) 221208-PAHs-024.D



276.0, 138.0

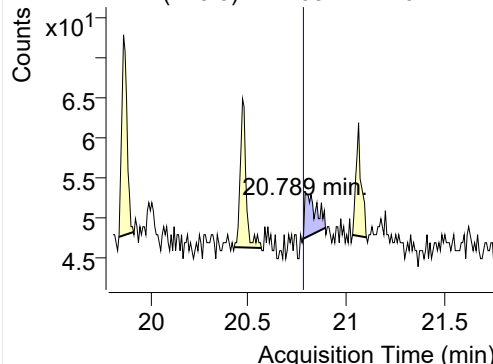


+ SIM (20.701-20.782 min, 11 scans) (**) 2212

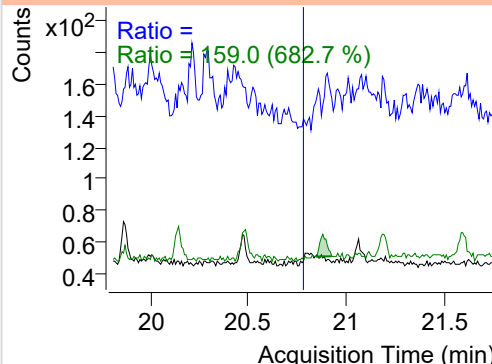


Dibenz(a,h)anthracene

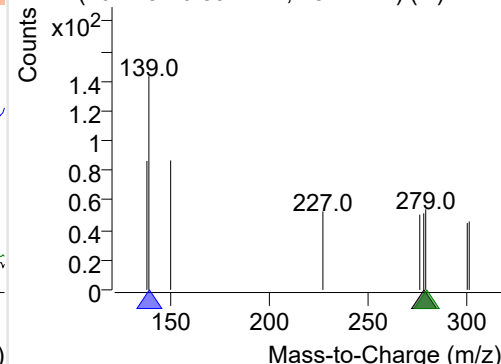
+ Selected Ion (278.0) 221208-PAHs-024.D



278.0, 139.0, 279.0



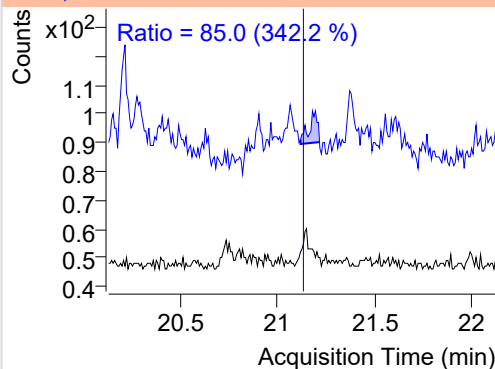
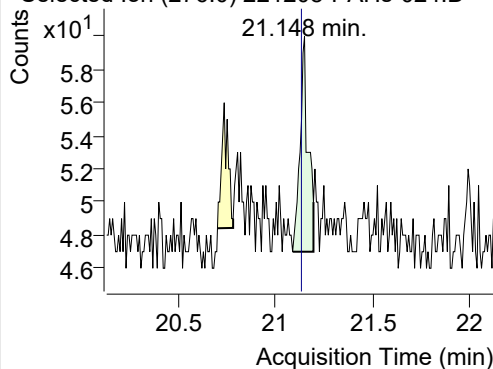
+ SIM (20.778-20.894 min, 15 scans) (**) 2212



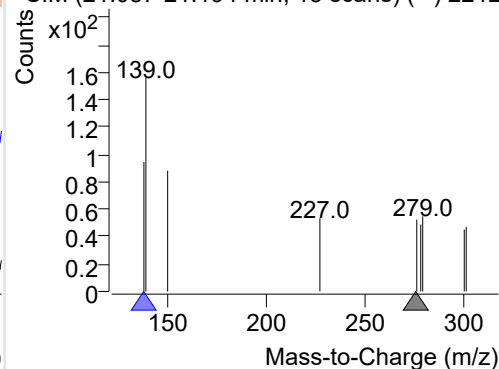
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221208-PAHs-024.D

276.0, 138.0

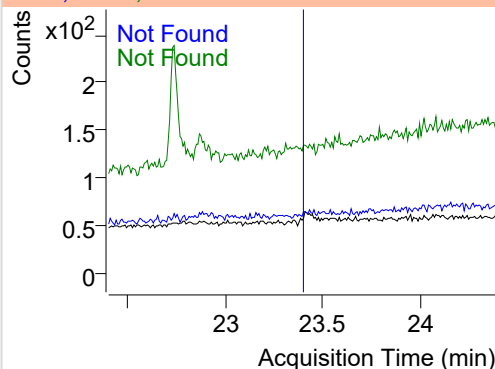
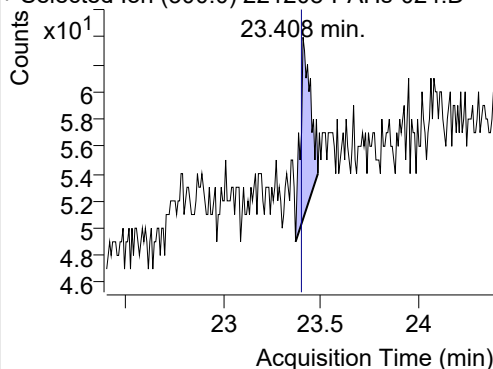


+ SIM (21.087-21.194 min, 15 scans) (**) 2212

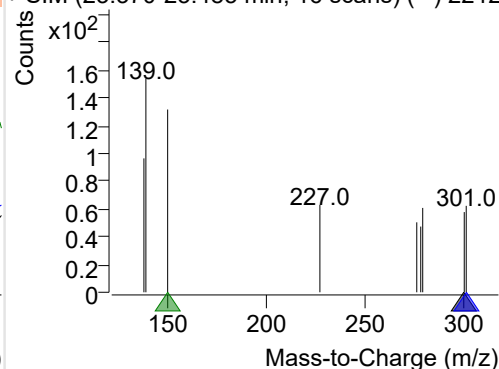
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-024.D

300.0, 301.0, 150.0



+ SIM (23.370-23.485 min, 16 scans) (**) 2212



Quantitative Analysis Sample Based Report

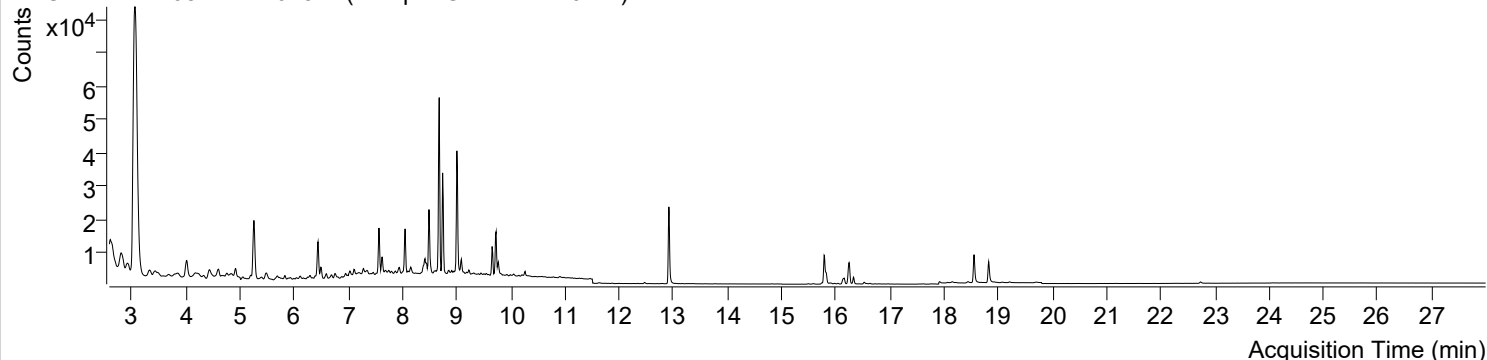


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 6:03:15	Data File	221208-PAHs-025.D
Type	Sample	Name	Sample-Gas-1114-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

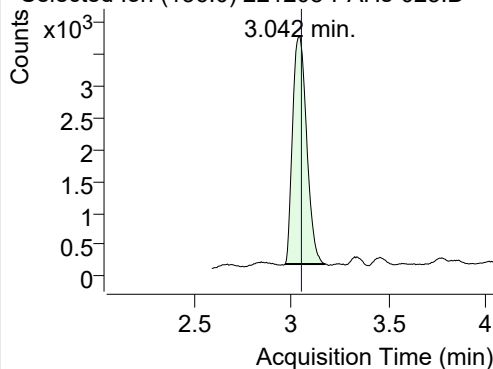
+ TIC SIM 221208-PAHs-025.D (Sample-Gas-1114-10DIL)



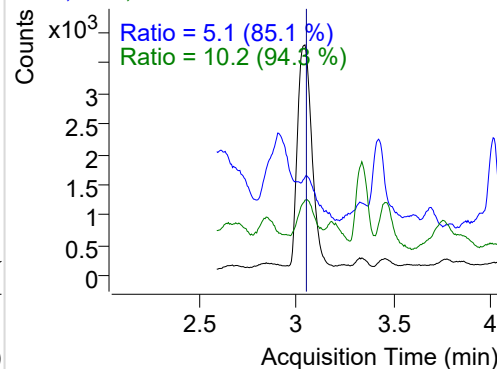
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	18117	3587.83	ND ng/ml	10.2
Naphthalene	3.063	128.0	317998	62049.03	ND ng/ml	13.2
Acenaphthylene	6.108	152.0	1228	577.38	ND ng/ml	43.9
IS-D10-Acenaphthene	6.439	164.0	11234	5386.18	ND ng/ml	80.5
Acenaphthene	6.498	154.0	1756	853.78	ND ng/ml	101.2
LSS-D10-Fluorene	7.564	176.0	10415	6086.16	ND ng/ml	89.7
Fluorene	7.627	166.0	4633	2286.54	ND ng/ml	104.0
IS-D10-Phenanthrene	9.727	188.0	18437	10557.88	ND ng/ml	17.2
Phenanthrene	9.769	178.0	4191	2336.05	ND ng/ml	21.1
Anthracene	9.769	178.0	4191	2336.05	ND ng/ml	21.1
Fluoranthene	12.472	202.0	491	258.91	ND ng/ml	33.5
LSS-D10-Pyrene	12.916	212.0	15418	16404.56	ND ng/ml	15.9
Pyrene	12.954	202.0	472	233.27	ND ng/ml	29.3
Benz(a)anthracene	15.822	228.0	208	71.30	ND ng/ml	26.5
IS-D12-Chrysene	15.784	240.0	10601	6308.63	ND ng/ml	22.3
Chrysene	15.822	228.0	208	71.30	ND ng/ml	26.5
Benzo(b)fluoranthene	18.067	252.0	46	9.35	ND ng/ml	85.2
Benzo(k)fluoranthene	18.067	252.0	46	9.35	ND ng/ml	85.2
SS-D12-Benzo(e)pyrene	18.551	264.0	11913	5802.78	ND ng/ml	24.3
Benzo(e)pyrene	18.544	252.0	89	26.35	ND ng/ml	
Benzo(a)pyrene	18.687	252.0	57	14.35	ND ng/ml	
IS-D12-Perylene	18.822	264.0	9629	4321.98	ND ng/ml	22.5
Perylene	18.822	252.0	60	19.35	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.736	276.0	29	5.32	ND ng/ml	
Dibenz(a,h)anthracene	20.828	278.0	32	6.34	ND ng/ml	60.9
Benzo(g,h,i)perylene	21.141	276.0	19	5.70	ND ng/ml	
Coronene	23.416	300.0	17	5.82	ND ng/ml	

IS-D8-Naphthalene

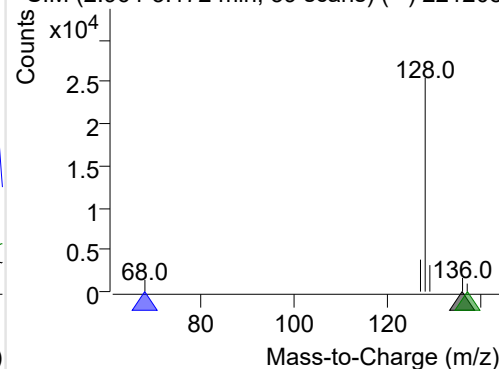
+ Selected Ion (136.0) 221208-PAHs-025.D



136.0, 68.0, 137.0

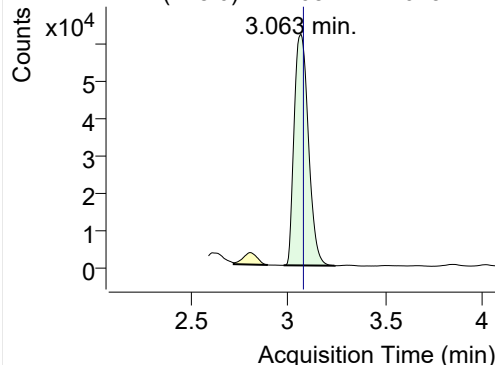


+ SIM (2.964-3.172 min, 39 scans) (**) 221208

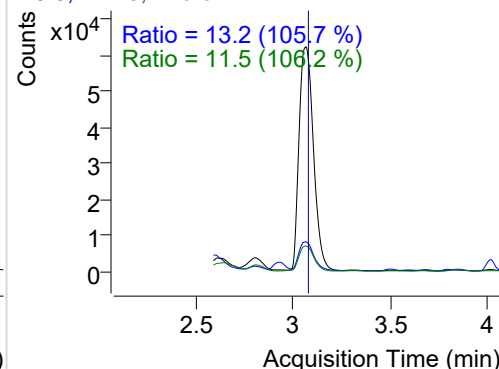


Naphthalene

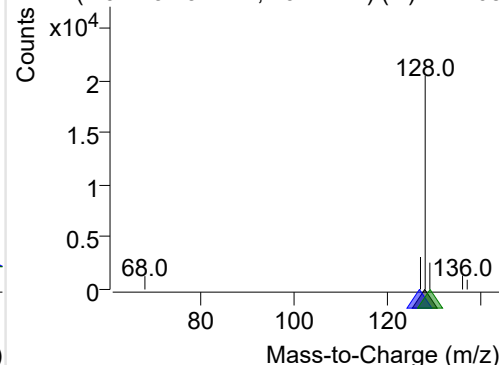
+ Selected Ion (128.0) 221208-PAHs-025.D



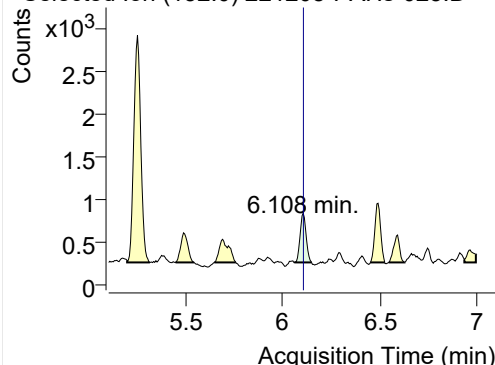
128.0, 127.0, 129.0



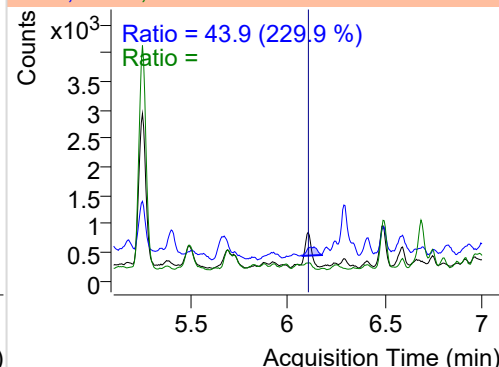
+ SIM (2.974-3.237 min, 49 scans) (**) 221208

**Acenaphthylene**

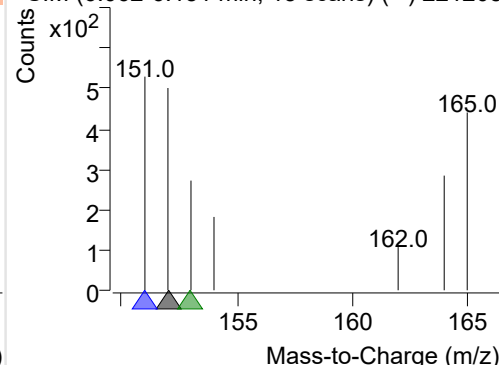
+ Selected Ion (152.0) 221208-PAHs-025.D



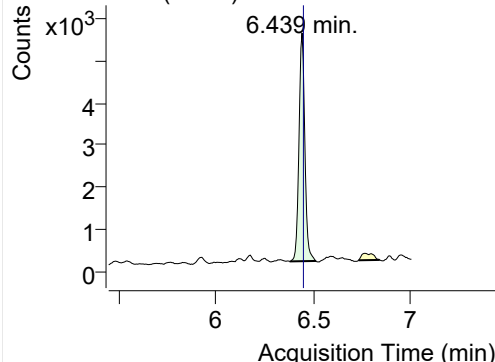
152.0, 151.0, 153.0



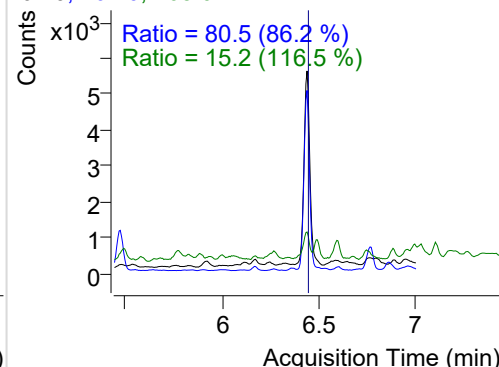
+ SIM (6.062-6.151 min, 15 scans) (**) 221208

**IS-D10-Acenaphthene**

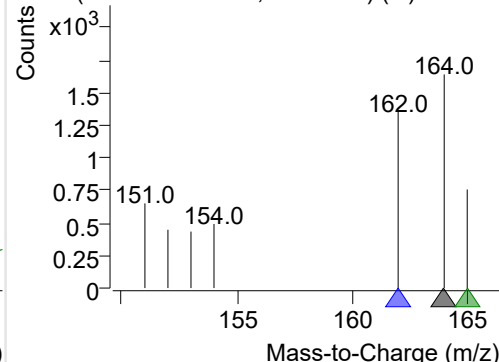
+ Selected Ion (164.0) 221208-PAHs-025.D



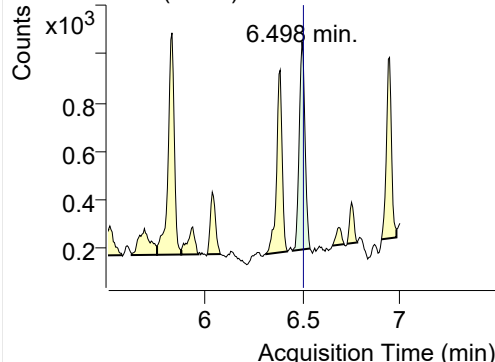
164.0, 162.0, 165.0



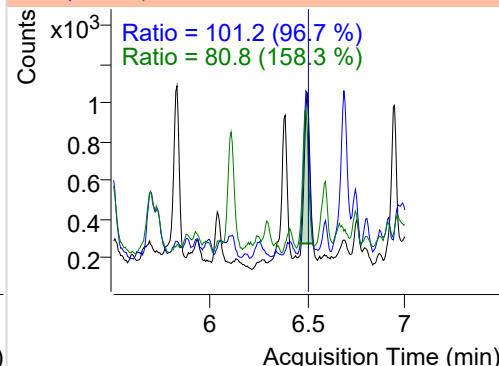
+ SIM (6.380-6.511 min, 23 scans) (**) 221208

**Acenaphthene**

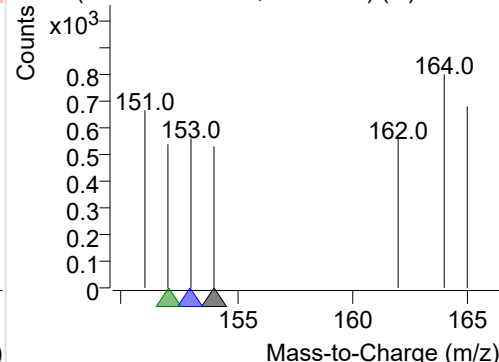
+ Selected Ion (154.0) 221208-PAHs-025.D



154.0, 153.0, 152.0

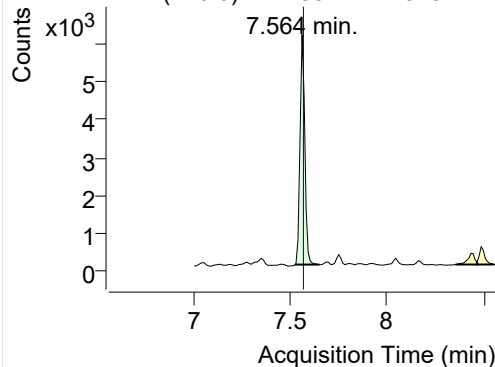


+ SIM (6.451-6.540 min, 15 scans) (**) 221208

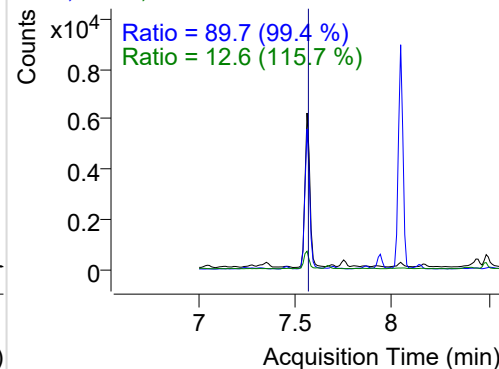


LSS-D10-Fluorene

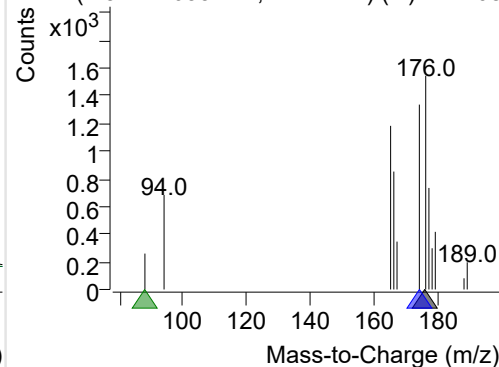
+ Selected Ion (176.0) 221208-PAHs-025.D



176.0, 174.0, 88.0

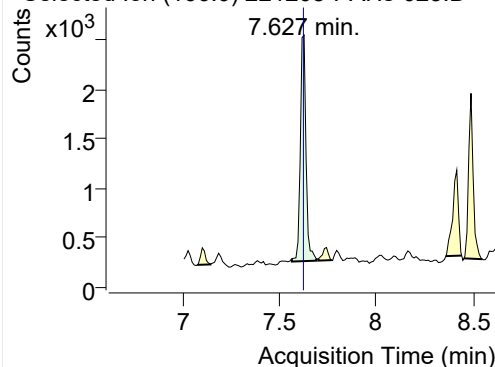


+ SIM (7.527-7.653 min, 12 scans) (**) 221208

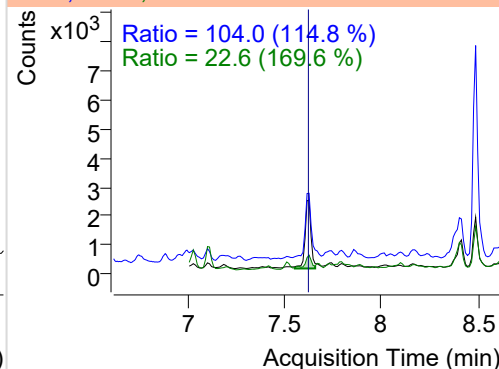


Fluorene

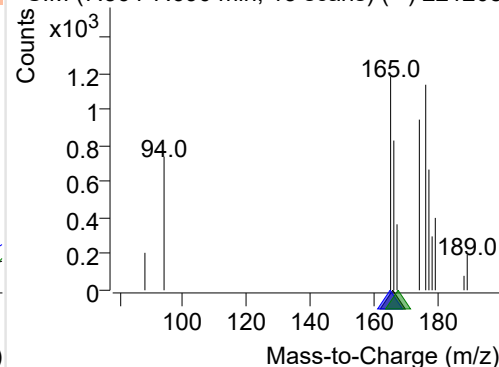
+ Selected Ion (166.0) 221208-PAHs-025.D



166.0, 165.0, 167.0

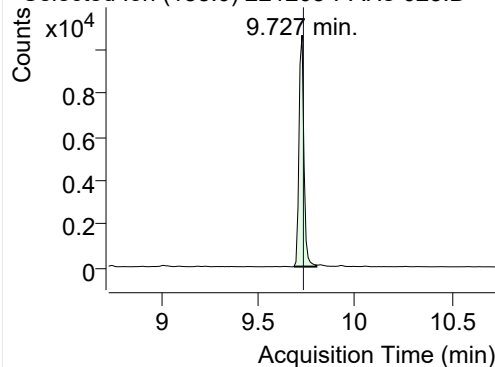


+ SIM (7.564-7.690 min, 13 scans) (**) 221208

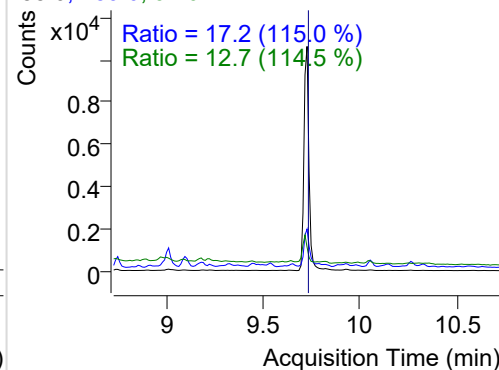


IS-D10-Phenanthrene

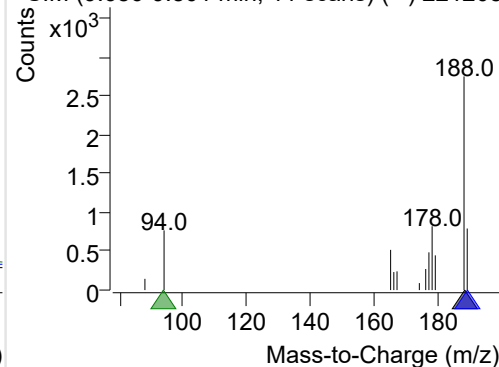
+ Selected Ion (188.0) 221208-PAHs-025.D



188.0, 189.0, 94.0

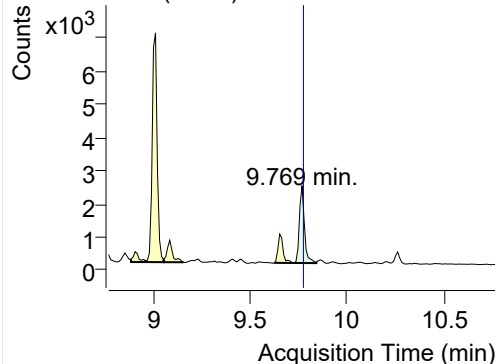


+ SIM (9.686-9.801 min, 11 scans) (**) 221208

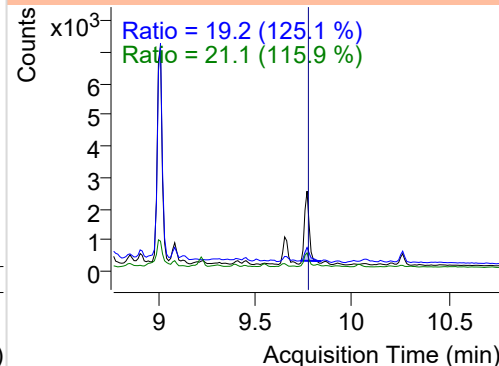


Phenanthrene

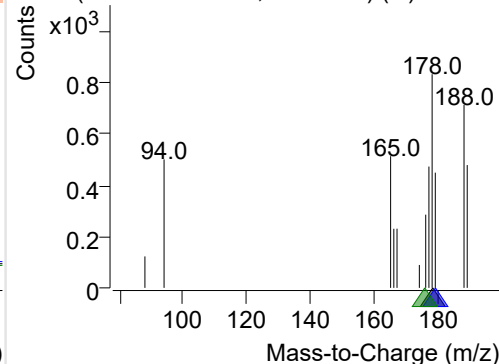
+ Selected Ion (178.0) 221208-PAHs-025.D



178.0, 179.0, 176.0

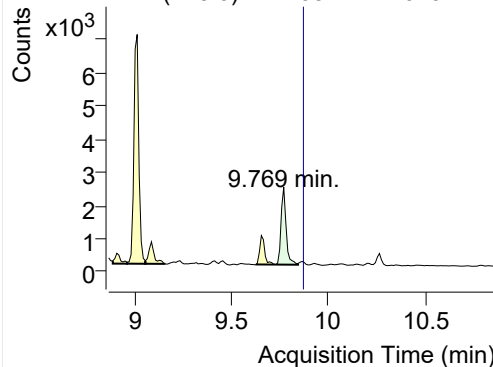


+ SIM (9.728-9.843 min, 11 scans) (**) 221208

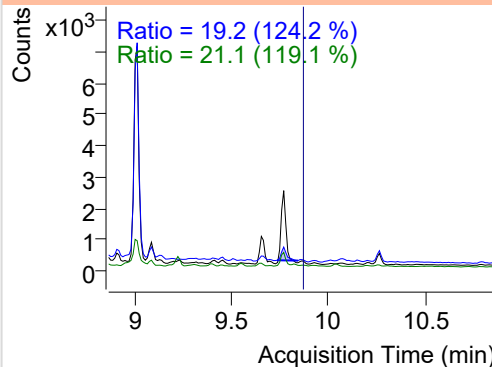


Anthracene

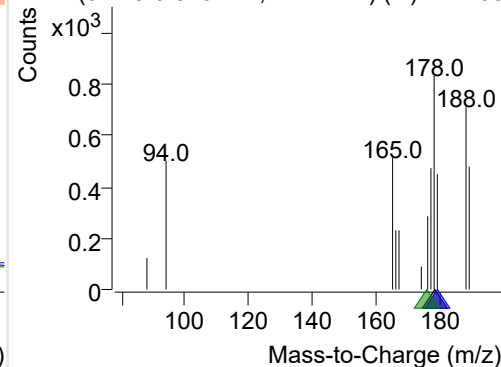
+ Selected Ion (178.0) 221208-PAHs-025.D



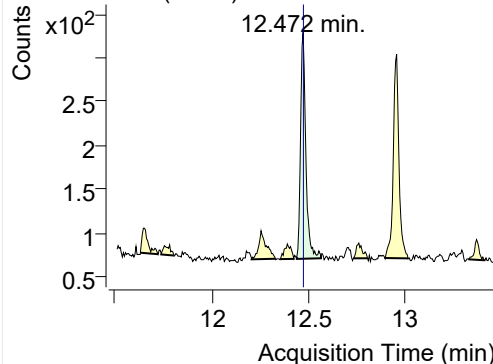
178.0, 179.0, 176.0



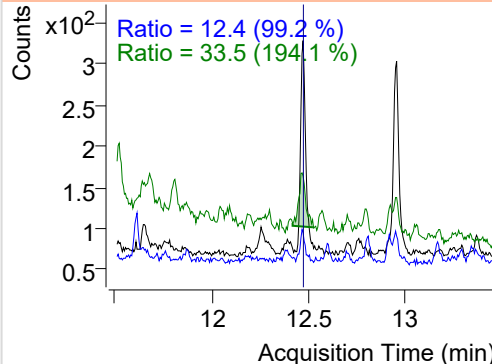
+ SIM (9.728-9.843 min, 11 scans) (**) 221208

**Fluoranthene**

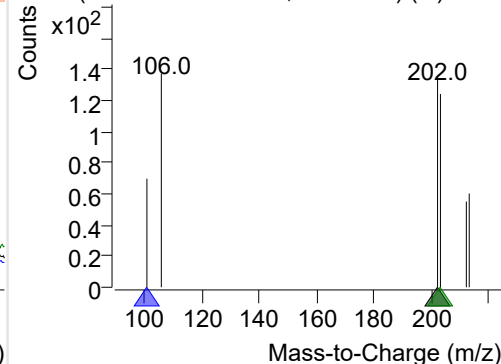
+ Selected Ion (202.0) 221208-PAHs-025.D



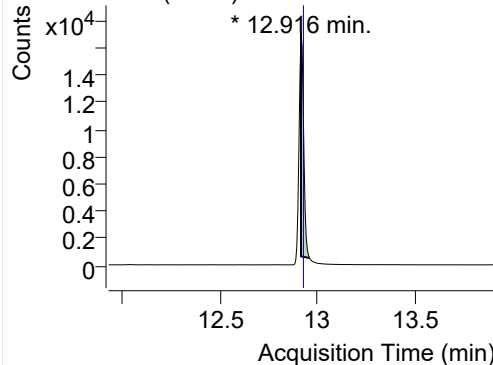
202.0, 101.0, 203.0



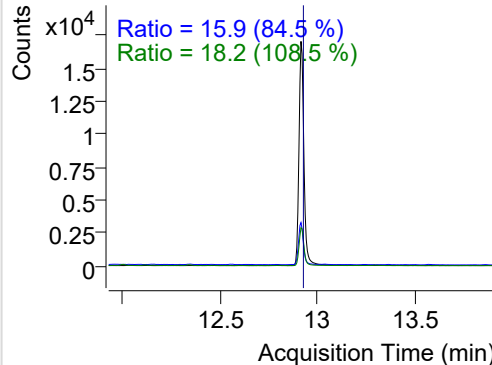
+ SIM (12.439-12.564 min, 24 scans) (**) 2212

**LSS-D10-Pyrene**

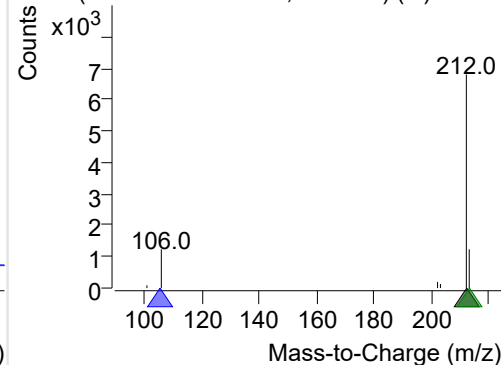
+ Selected Ion (212.0) 221208-PAHs-025.D



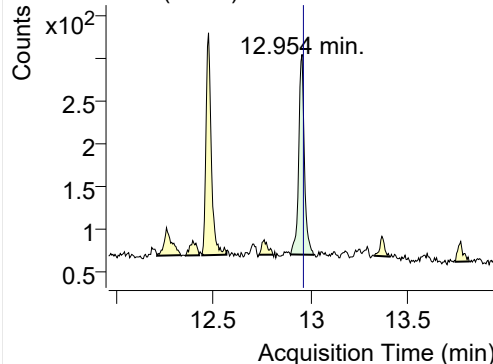
212.0, 106.0, 213.0



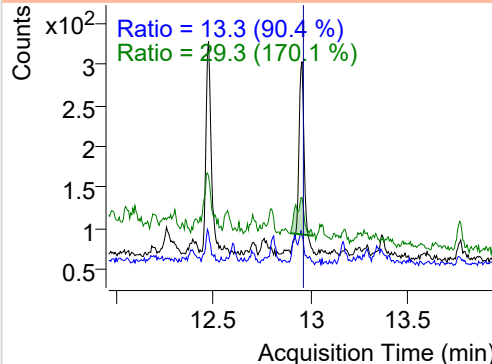
+ SIM (12.916-12.960 min, 9 scans) (**) 22120

**Pyrene**

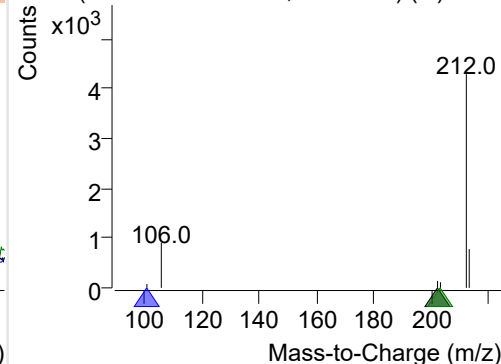
+ Selected Ion (202.0) 221208-PAHs-025.D



202.0, 101.0, 203.0



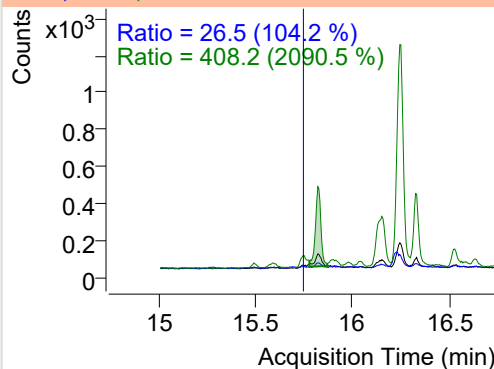
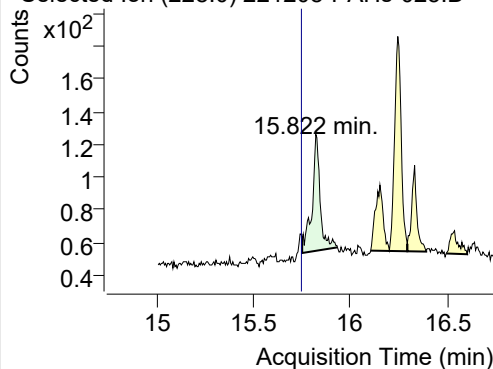
+ SIM (12.896-13.013 min, 21 scans) (**) 2212



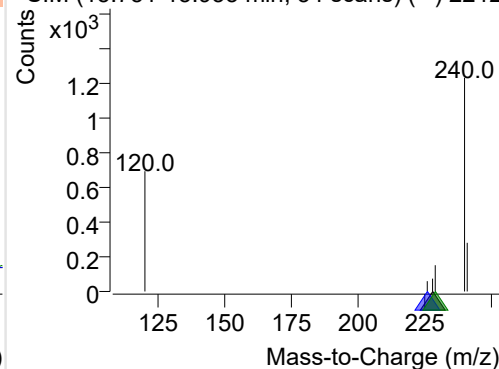
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-025.D

228.0, 226.0, 229.0

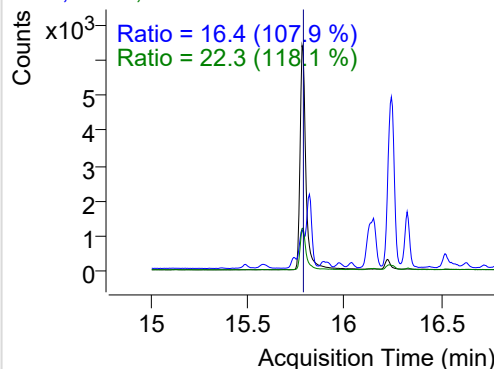
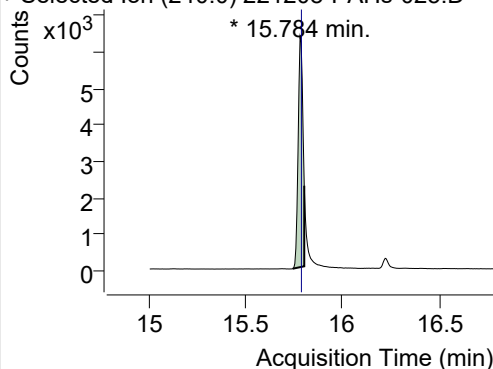


+ SIM (15.751-15.933 min, 34 scans) (**) 2212

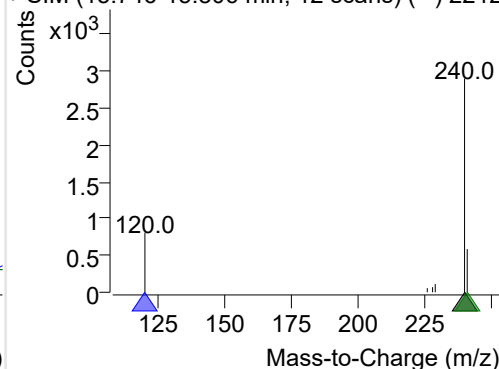
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-025.D

240.0, 120.0, 241.0

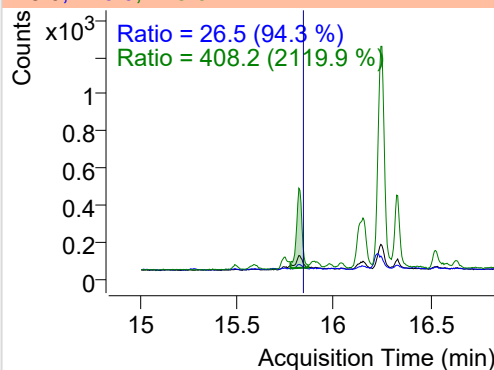
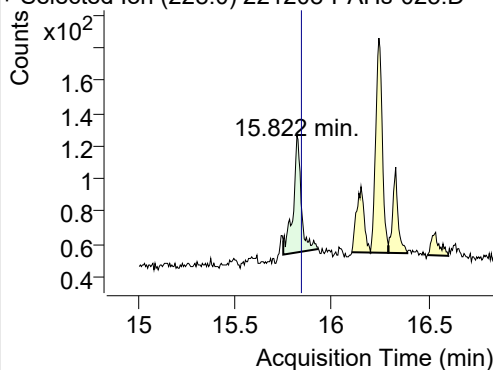


+ SIM (15.746-15.806 min, 12 scans) (**) 2212

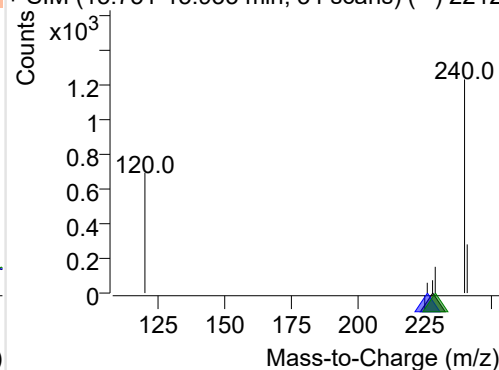
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-025.D

228.0, 226.0, 229.0

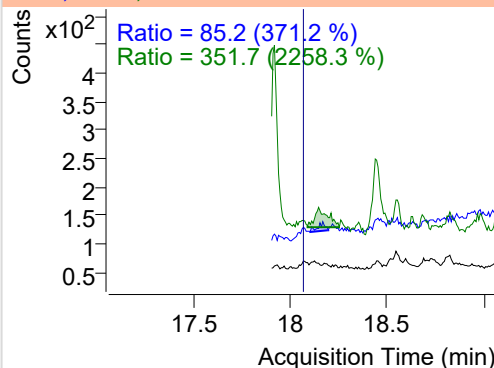
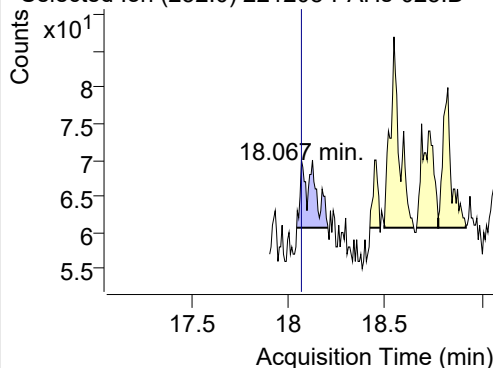


+ SIM (15.751-15.933 min, 34 scans) (**) 2212

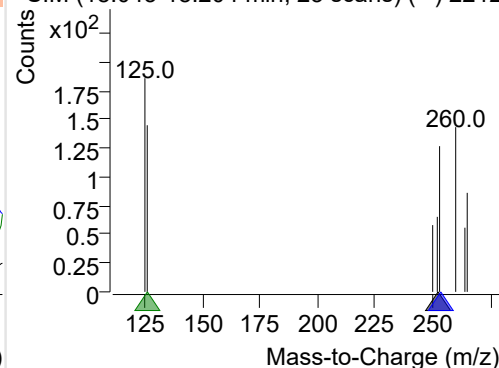
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-025.D

252.0, 253.0, 126.0



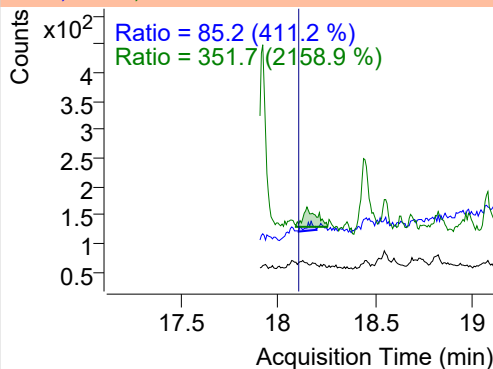
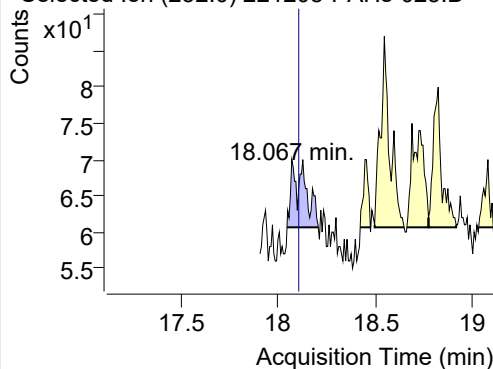
+ SIM (18.043-18.204 min, 23 scans) (**) 2212



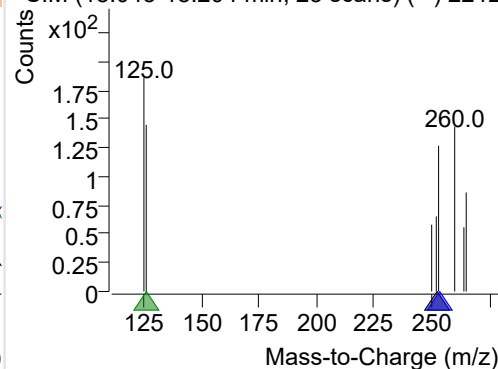
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-025.D

252.0, 253.0, 126.0

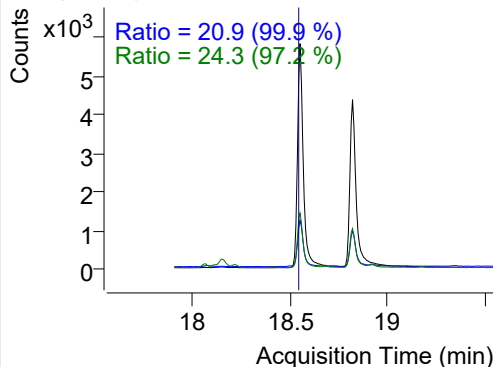
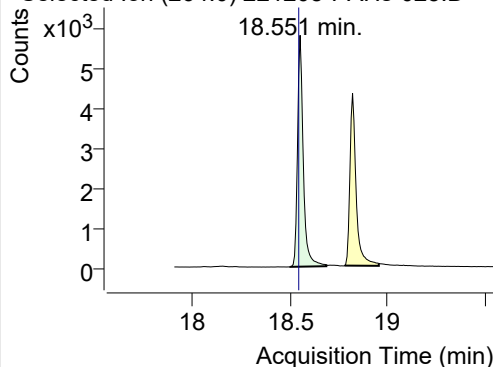


+ SIM (18.043-18.204 min, 23 scans) (**) 2212

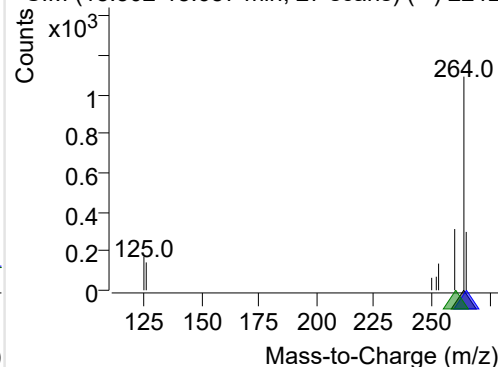
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-025.D

264.0, 265.0, 260.0

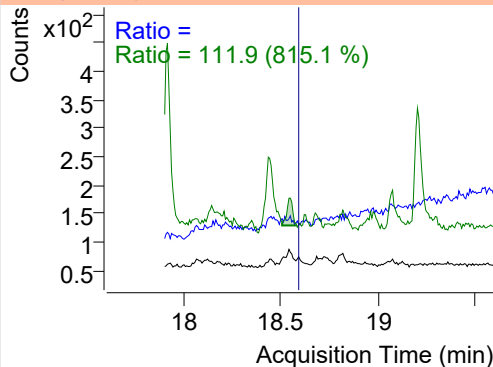
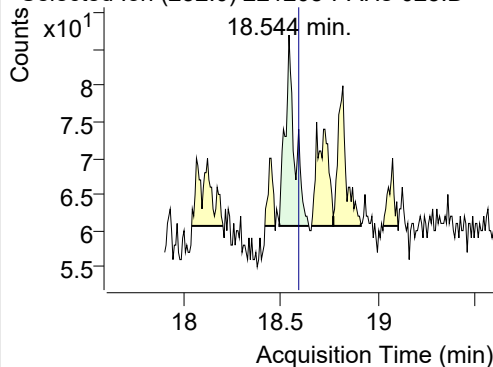


+ SIM (18.502-18.687 min, 27 scans) (**) 2212

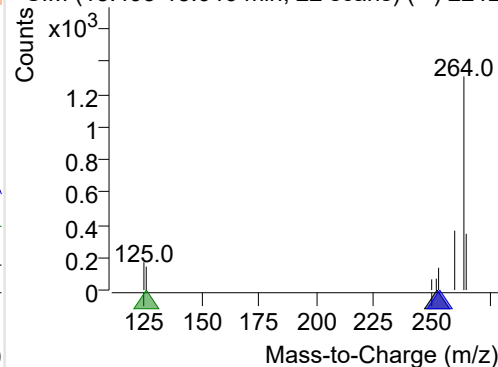
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-025.D

252.0, 253.0, 126.0

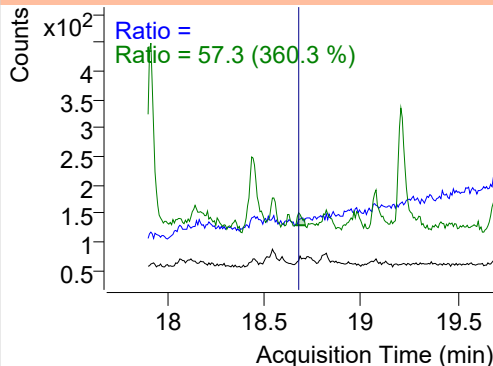
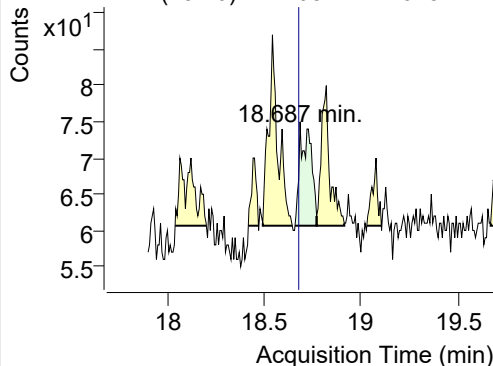


+ SIM (18.495-18.646 min, 22 scans) (**) 2212

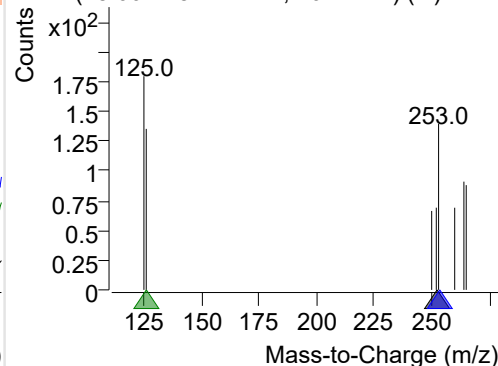
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-025.D

252.0, 253.0, 126.0

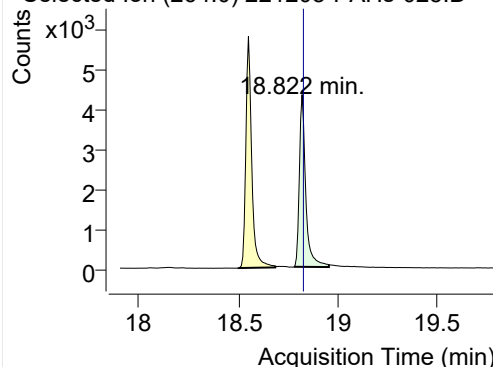


+ SIM (18.661-18.772 min, 16 scans) (**) 2212

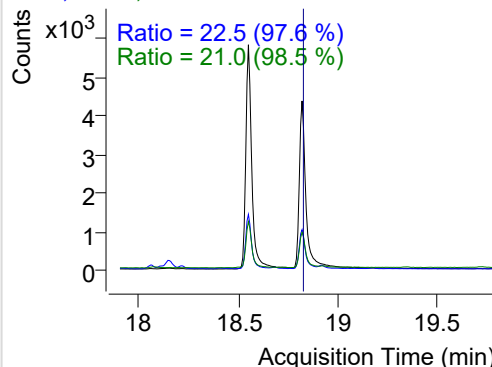


IS-D12-Perylene

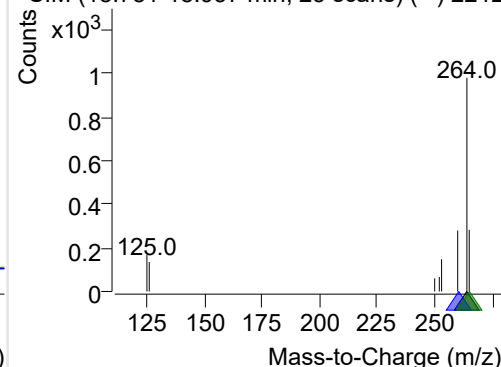
+ Selected Ion (264.0) 221208-PAHs-025.D



264.0, 260.0, 265.0

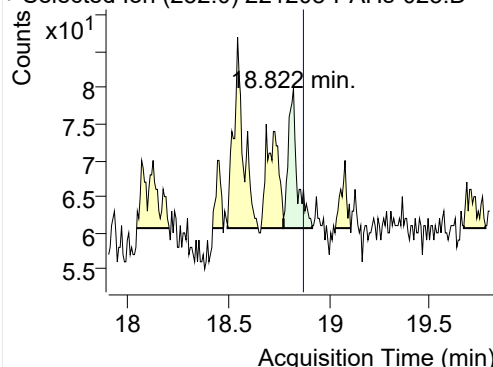


+ SIM (18.781-18.957 min, 25 scans) (**) 2212

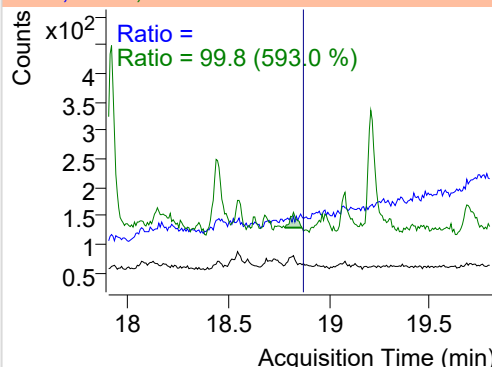


Perylene

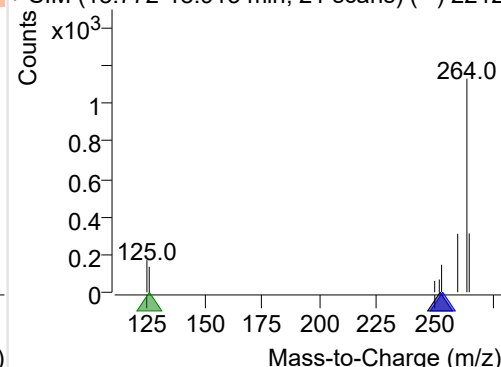
+ Selected Ion (252.0) 221208-PAHs-025.D



252.0, 253.0, 126.0

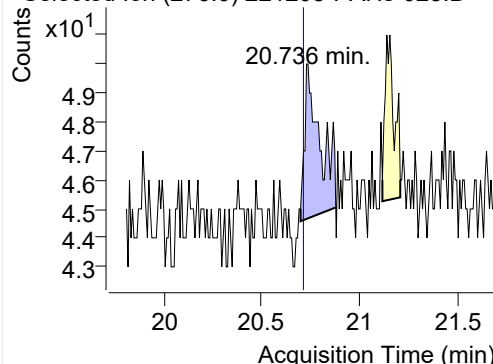


+ SIM (18.772-18.915 min, 21 scans) (**) 2212

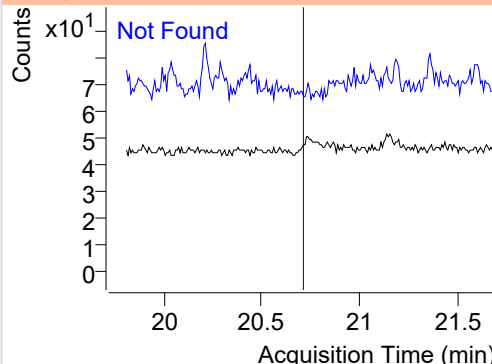


Indeno(1,2,3-c,d)pyrene

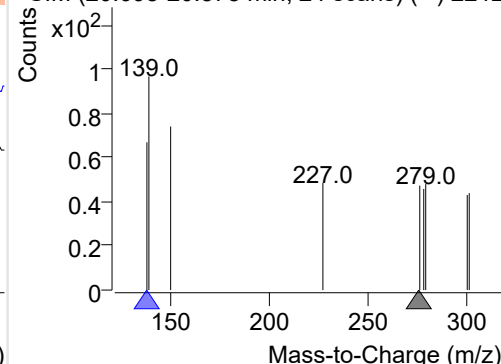
+ Selected Ion (276.0) 221208-PAHs-025.D



276.0, 138.0

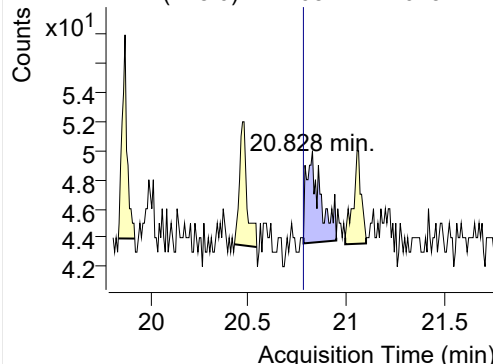


+ SIM (20.698-20.878 min, 24 scans) (**) 2212

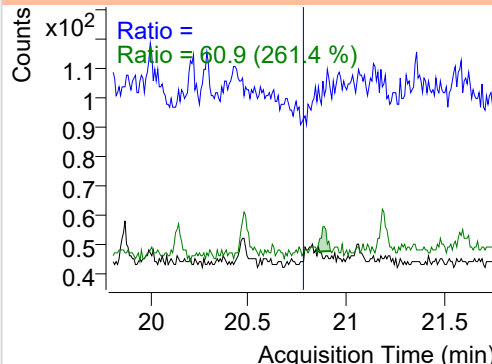


Dibenz(a,h)anthracene

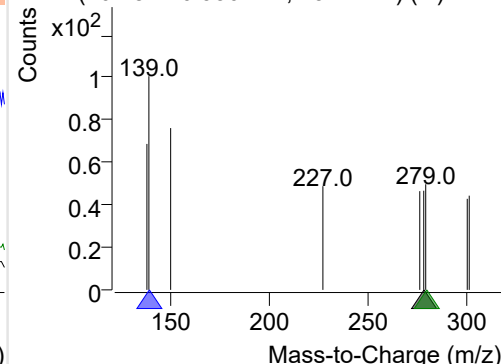
+ Selected Ion (278.0) 221208-PAHs-025.D



278.0, 139.0, 279.0

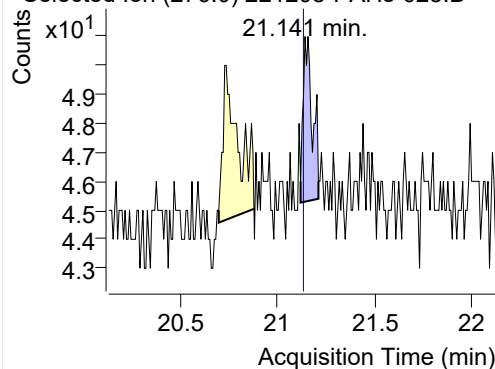


+ SIM (20.782-20.950 min, 23 scans) (**) 2212

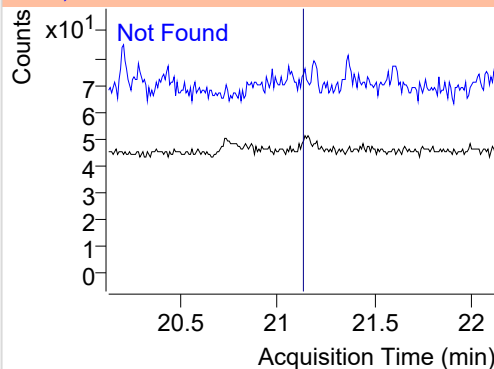


Benzo(g,h,i)perylene

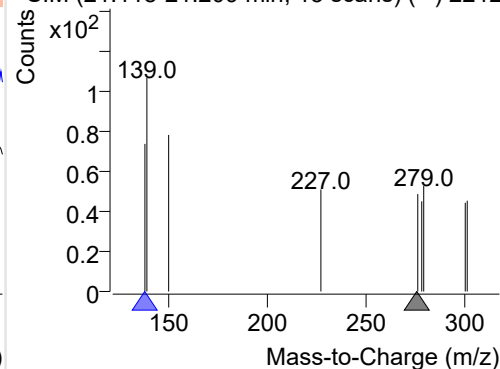
+ Selected Ion (276.0) 221208-PAHs-025.D



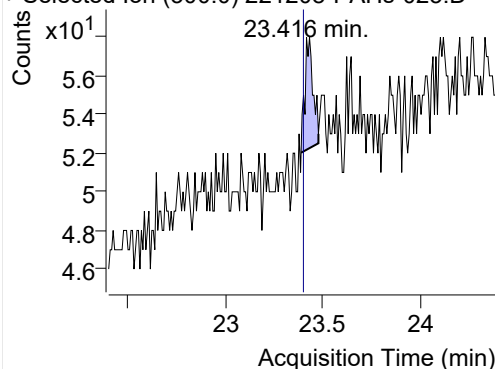
276.0, 138.0



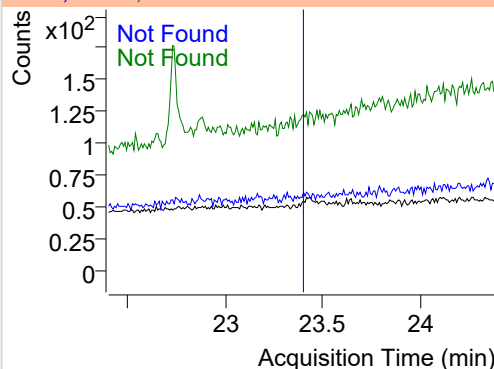
+ SIM (21.118-21.209 min, 13 scans) (**) 2212

**Coronene**

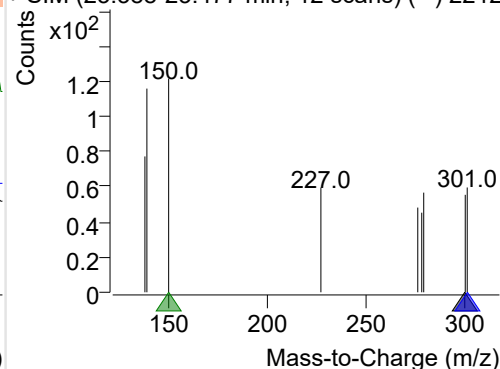
+ Selected Ion (300.0) 221208-PAHs-025.D



300.0, 301.0, 150.0



+ SIM (23.388-23.477 min, 12 scans) (**) 2212



Quantitative Analysis Sample Based Report

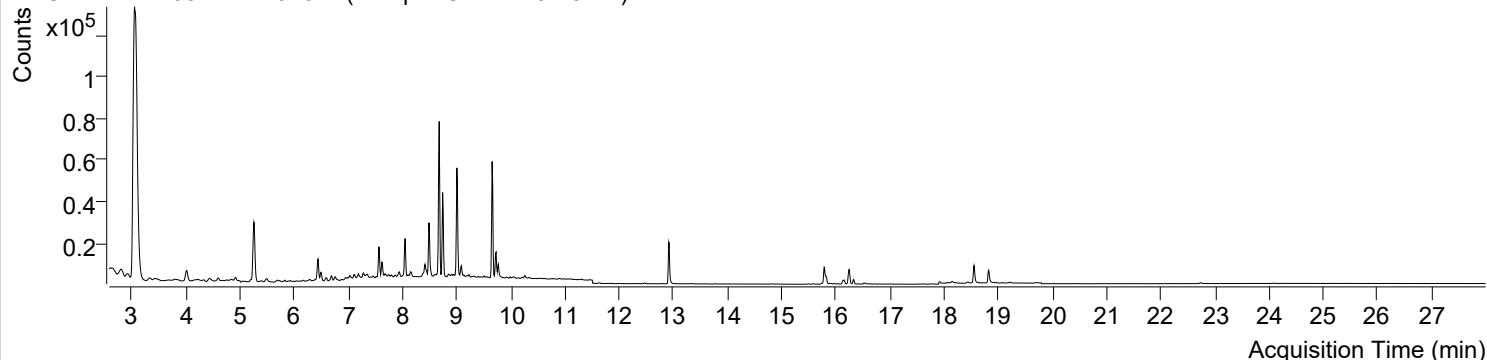


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 6:34:20	Data File	221208-PAHs-026.D
Type	Sample	Name	Sample-Gas-1119-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

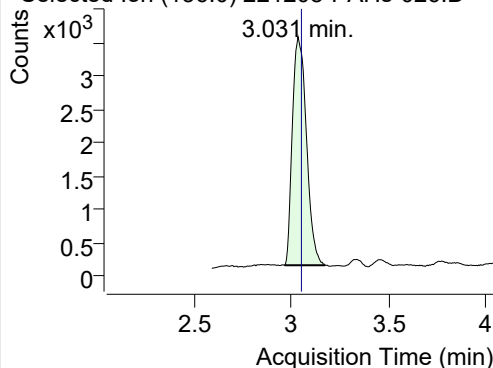
+ TIC SIM 221208-PAHs-026.D (Sample-Gas-1119-10DIL)



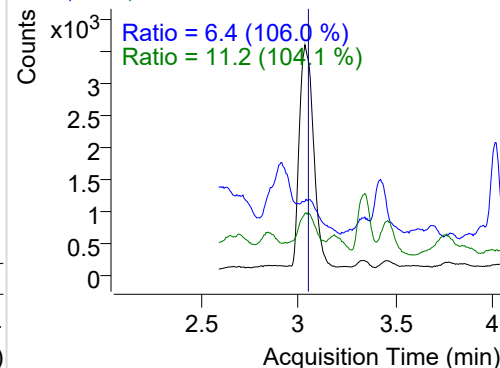
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	17258	3437.22	ND ng/ml	11.2
Naphthalene	3.053	128.0	533314	102936.13	ND ng/ml	13.0
Acenaphthylene	6.493	152.0	2005	904.40	ND ng/ml	44.3
IS-D10-Acenaphthene	6.439	164.0	10647	5138.81	ND ng/ml	92.6
Acenaphthene	6.499	154.0	1956	1000.64	ND ng/ml	119.0
LSS-D10-Fluorene	7.564	176.0	10962	6358.12	ND ng/ml	90.3
Fluorene	7.617	166.0	5608	3184.00	ND ng/ml	121.3
IS-D10-Phenanthrene	9.727	188.0	17511	9907.46	ND ng/ml	18.2
Phenanthrene	9.769	178.0	7189	4143.36	ND ng/ml	20.5
Anthracene	9.769	178.0	7189	4143.36	ND ng/ml	20.5
Fluoranthene	12.472	202.0	461	258.52	ND ng/ml	57.5
LSS-D10-Pyrene	12.917	212.0	25321	14597.01	ND ng/ml	18.8
Pyrene	12.949	202.0	536	245.01	ND ng/ml	28.2
Benz(a)anthracene	15.822	228.0	266	79.65	ND ng/ml	25.0
IS-D12-Chrysene	15.784	240.0	11663	5976.57	ND ng/ml	20.6
Chrysene	15.822	228.0	266	79.65	ND ng/ml	25.0
Benzo(b)fluoranthene	18.075	252.0	59	11.78	ND ng/ml	
Benzo(k)fluoranthene	18.075	252.0	59	11.78	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.552	264.0	11989	5665.99	ND ng/ml	24.9
Benzo(e)pyrene	18.544	252.0	107	24.78	ND ng/ml	
Benzo(a)pyrene	18.737	252.0	62	17.78	ND ng/ml	
IS-D12-Perylene	18.822	264.0	9652	4269.34	ND ng/ml	22.9
Perylene	18.822	252.0	73	20.78	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	20.744	276.0	34	6.71	ND ng/ml	
Dibenz(a,h)anthracene	20.828	278.0	18	5.21	ND ng/ml	172.9
Benzo(g,h,i)perylene	21.141	276.0	23	6.27	ND ng/ml	71.1
Coronene	23.424	300.0	44	9.60	ND ng/ml	

IS-D8-Naphthalene

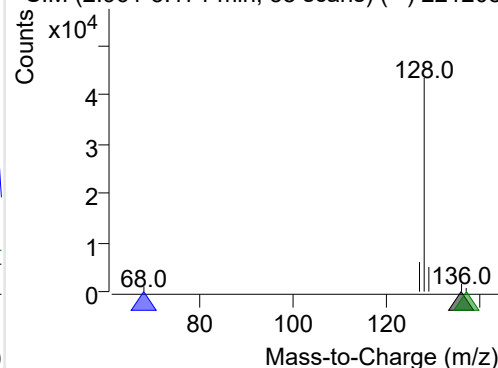
+ Selected Ion (136.0) 221208-PAHs-026.D



136.0, 68.0, 137.0

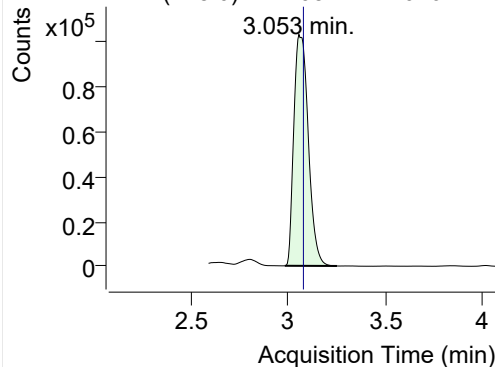


+ SIM (2.961-3.171 min, 38 scans) (**) 221208

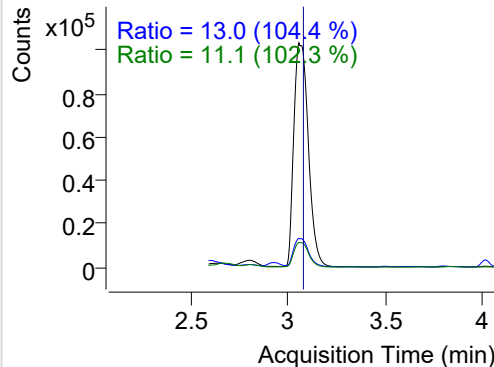


Naphthalene

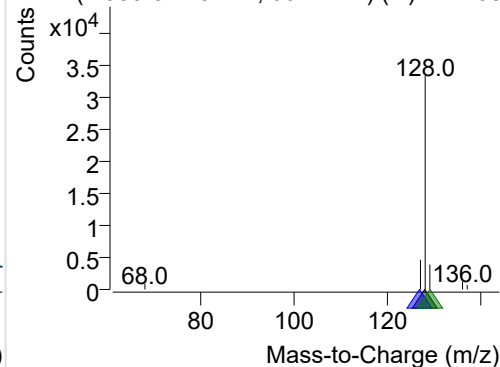
+ Selected Ion (128.0) 221208-PAHs-026.D



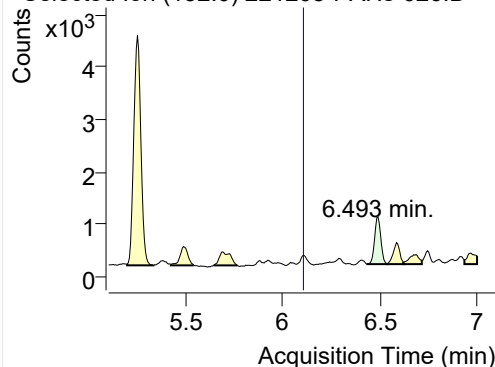
128.0, 127.0, 129.0



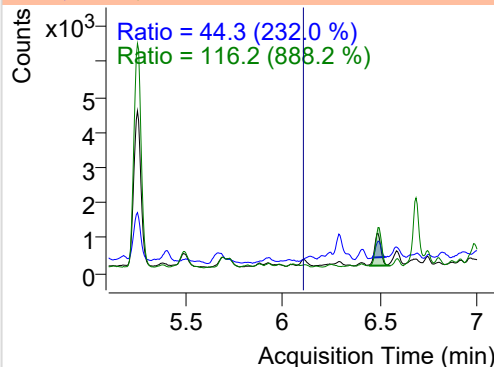
+ SIM (2.980-3.249 min, 50 scans) (**) 221208

**Acenaphthylene**

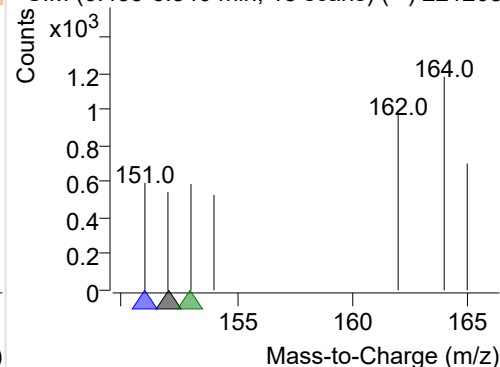
+ Selected Ion (152.0) 221208-PAHs-026.D



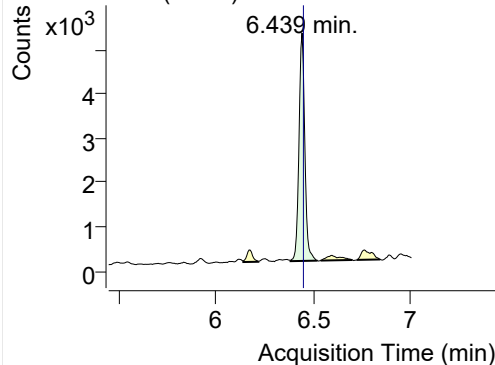
152.0, 151.0, 153.0



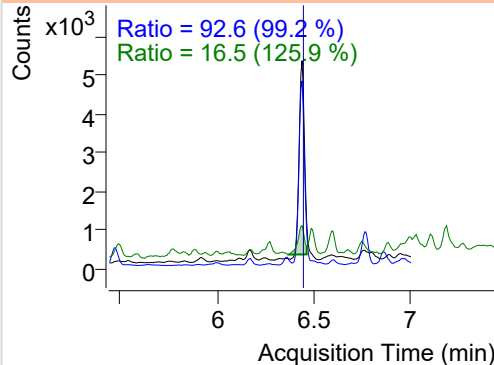
+ SIM (6.435-6.540 min, 18 scans) (**) 221208

**IS-D10-Acenaphthene**

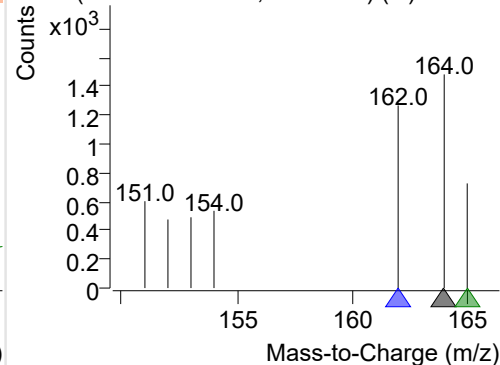
+ Selected Ion (164.0) 221208-PAHs-026.D



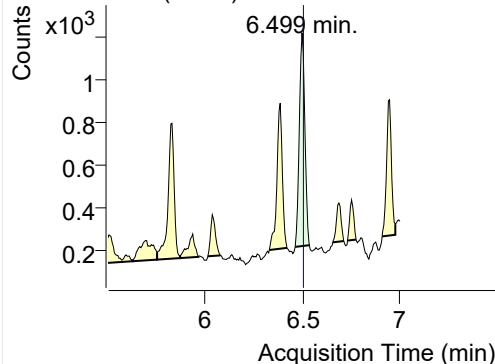
164.0, 162.0, 165.0



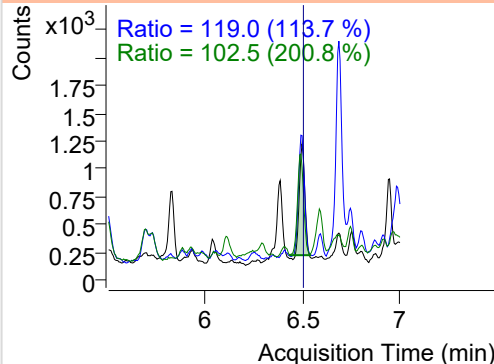
+ SIM (6.380-6.518 min, 24 scans) (**) 221208

**Acenaphthene**

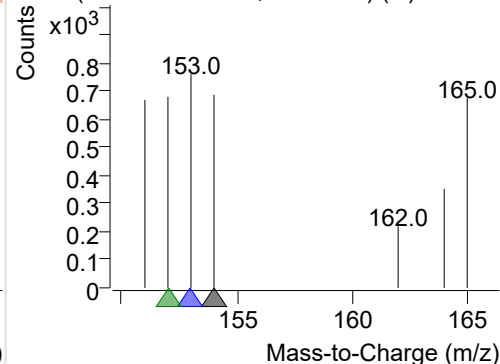
+ Selected Ion (154.0) 221208-PAHs-026.D



154.0, 153.0, 152.0

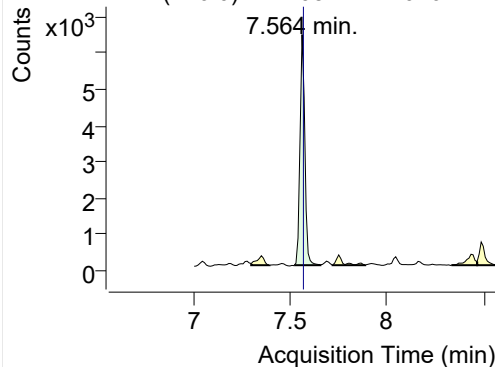


+ SIM (6.463-6.536 min, 12 scans) (**) 221208

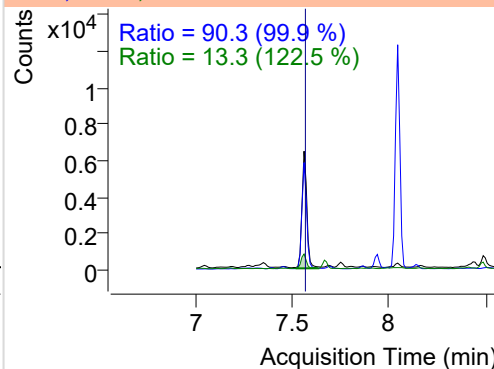


LSS-D10-Fluorene

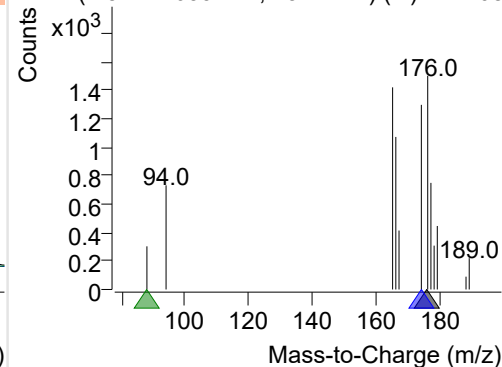
+ Selected Ion (176.0) 221208-PAHs-026.D



176.0, 174.0, 88.0

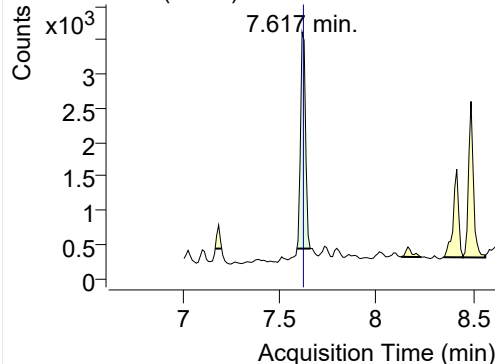


+ SIM (7.524-7.659 min, 13 scans) (**) 221208

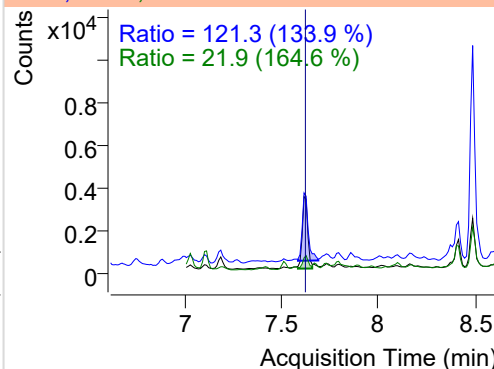


Fluorene

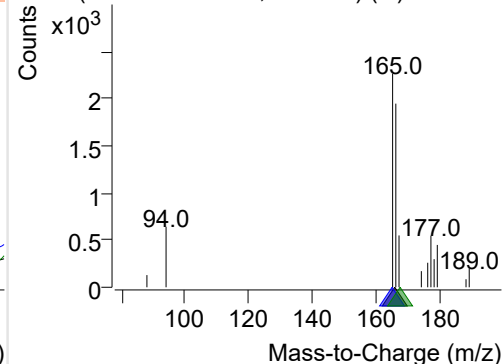
+ Selected Ion (166.0) 221208-PAHs-026.D



166.0, 165.0, 167.0

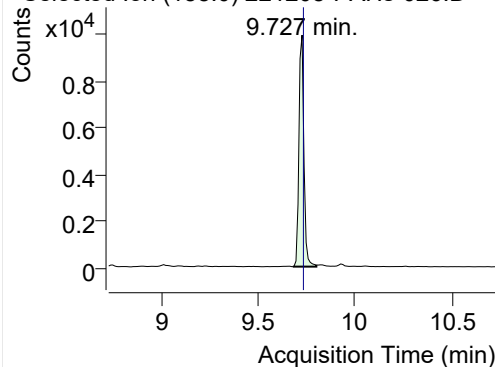


+ SIM (7.590-7.659 min, 6 scans) (**) 221208-I

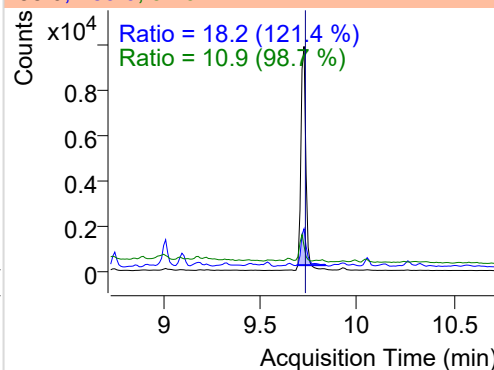


IS-D10-Phenanthrene

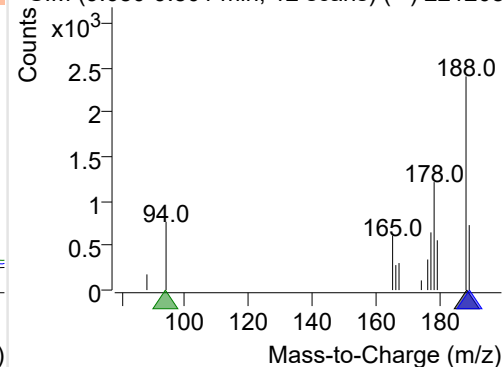
+ Selected Ion (188.0) 221208-PAHs-026.D



188.0, 189.0, 94.0

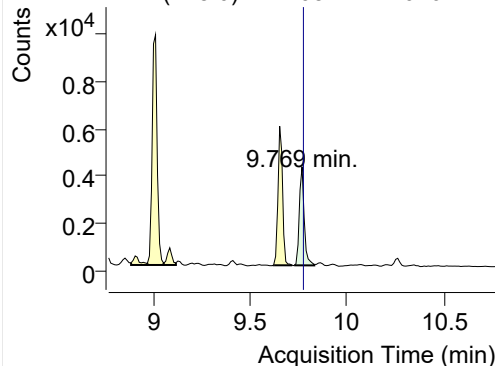


+ SIM (9.680-9.801 min, 12 scans) (**) 221208

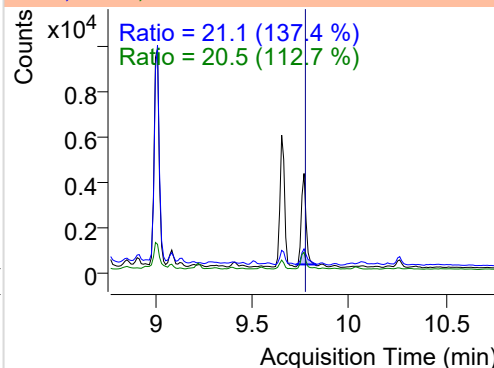


Phenanthrene

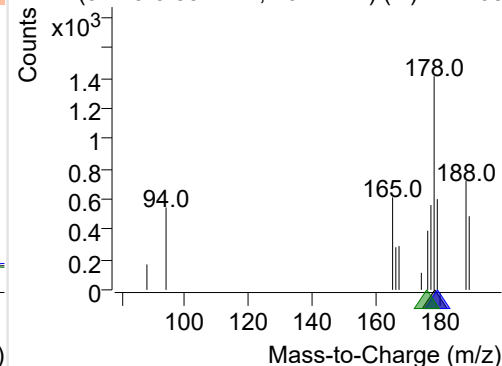
+ Selected Ion (178.0) 221208-PAHs-026.D



178.0, 179.0, 176.0

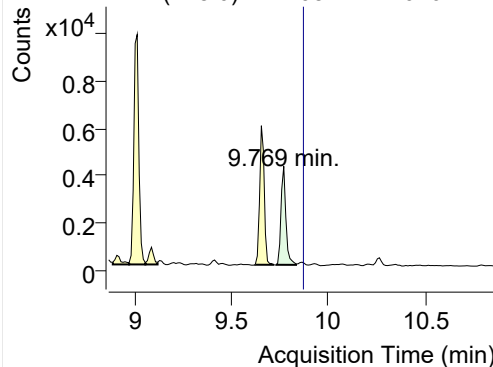


+ SIM (9.729-9.832 min, 10 scans) (**) 221208

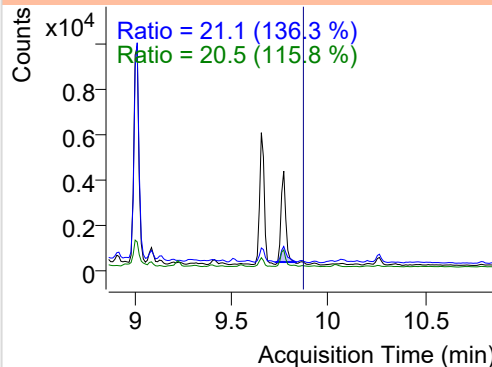


Anthracene

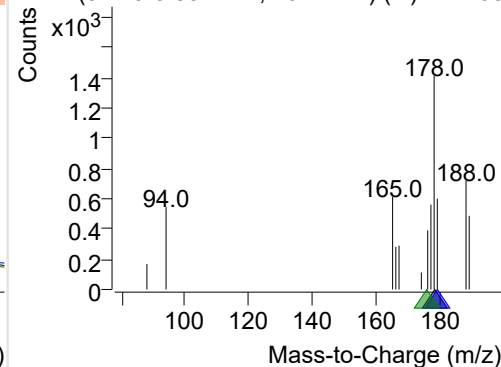
+ Selected Ion (178.0) 221208-PAHs-026.D



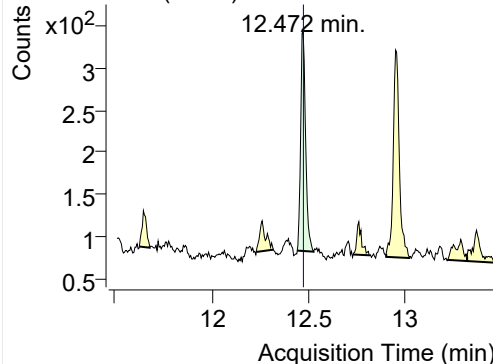
178.0, 179.0, 176.0



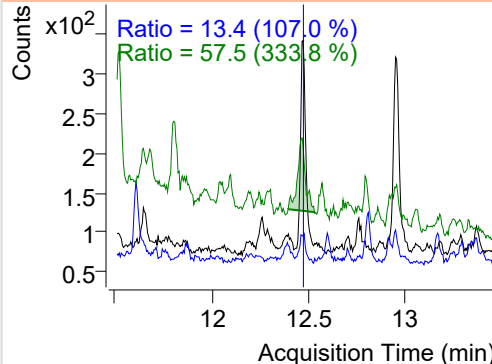
+ SIM (9.729-9.832 min, 10 scans) (**) 221208

**Fluoranthene**

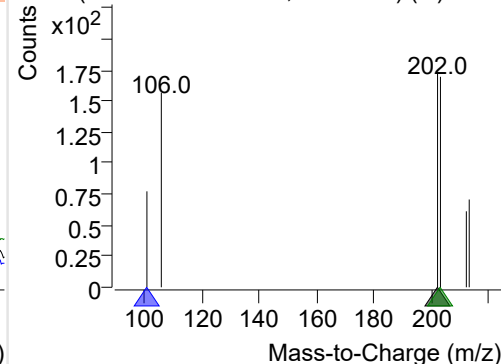
+ Selected Ion (202.0) 221208-PAHs-026.D



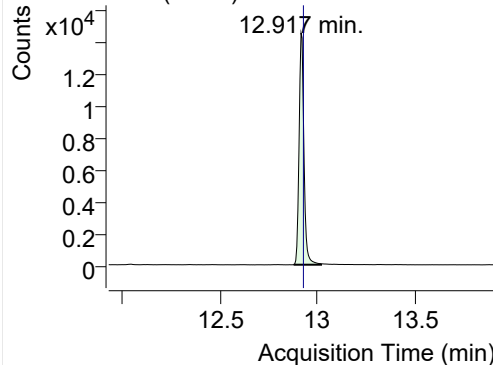
202.0, 101.0, 203.0



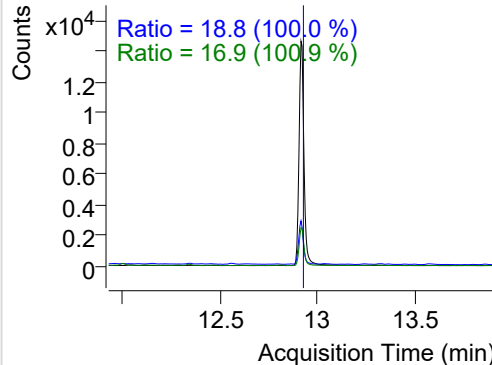
+ SIM (12.442-12.526 min, 16 scans) (**) 2212

**LSS-D10-Pyrene**

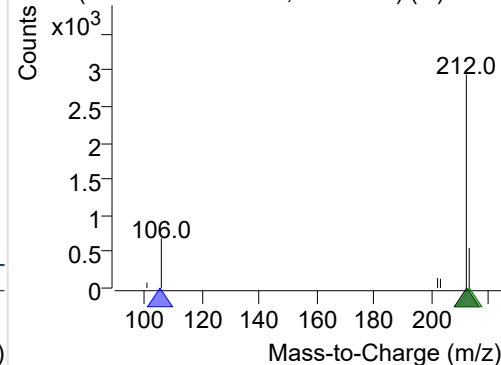
+ Selected Ion (212.0) 221208-PAHs-026.D



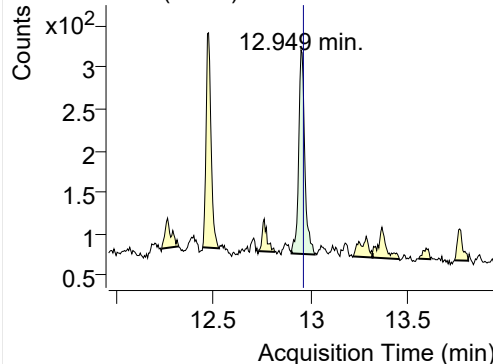
212.0, 106.0, 213.0



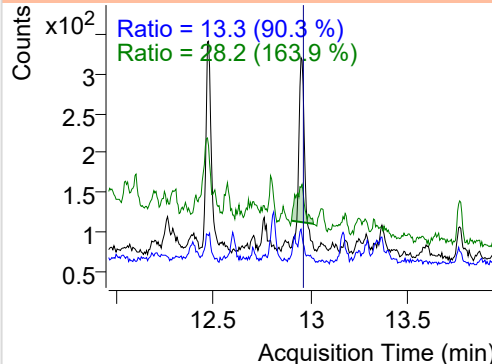
+ SIM (12.879-13.019 min, 27 scans) (**) 2212

**Pyrene**

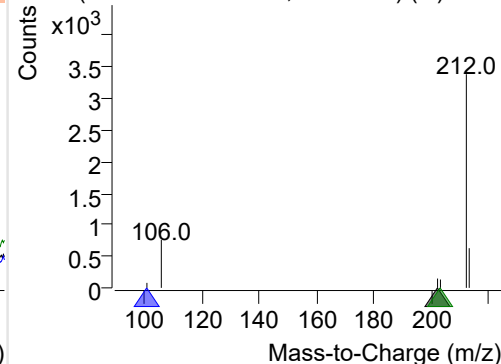
+ Selected Ion (202.0) 221208-PAHs-026.D



202.0, 101.0, 203.0



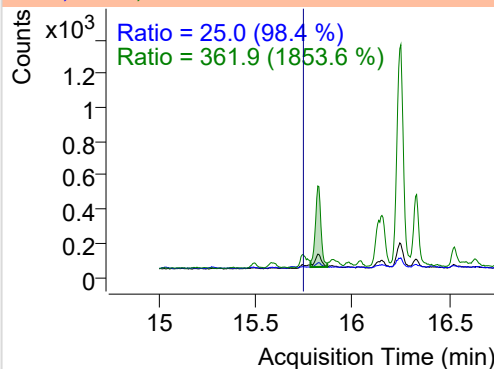
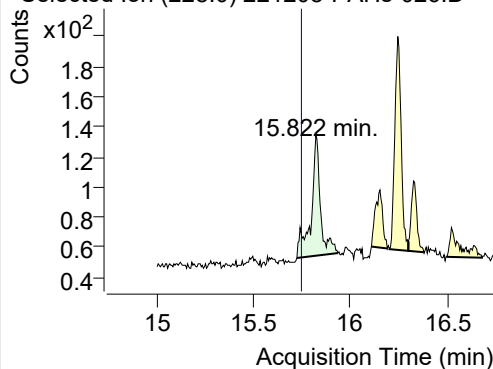
+ SIM (12.900-13.019 min, 23 scans) (**) 2212



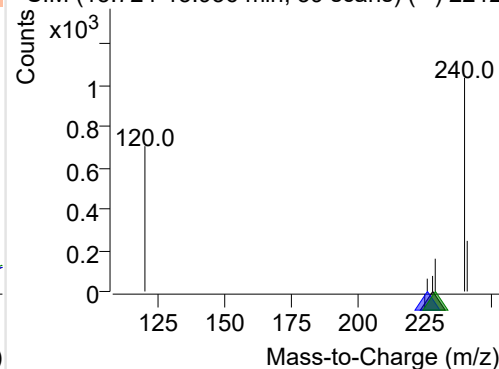
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-026.D

228.0, 226.0, 229.0

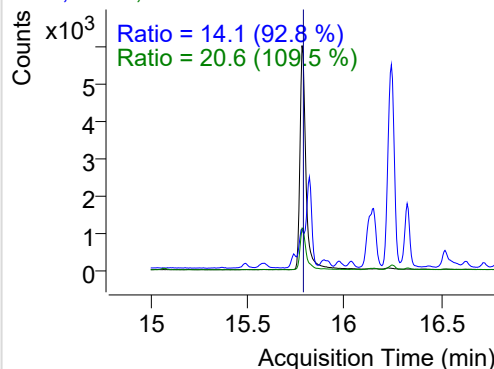
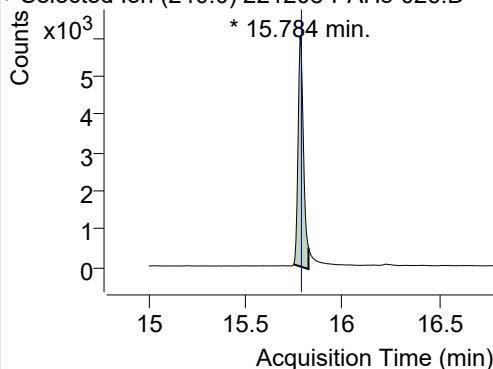


+ SIM (15.724-15.936 min, 39 scans) (**) 2212

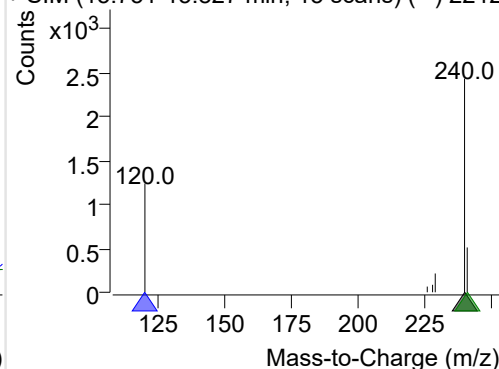
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-026.D

240.0, 120.0, 241.0

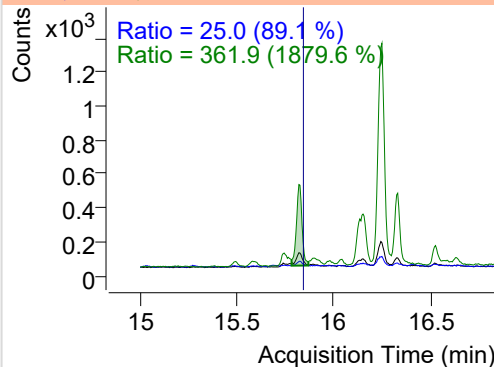
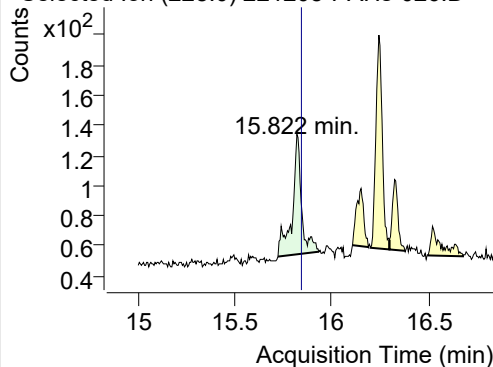


+ SIM (15.751-15.827 min, 15 scans) (**) 2212

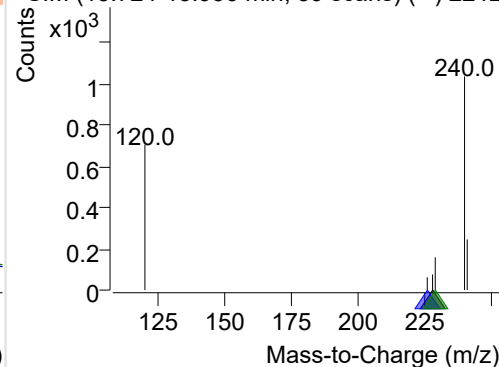
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-026.D

228.0, 226.0, 229.0

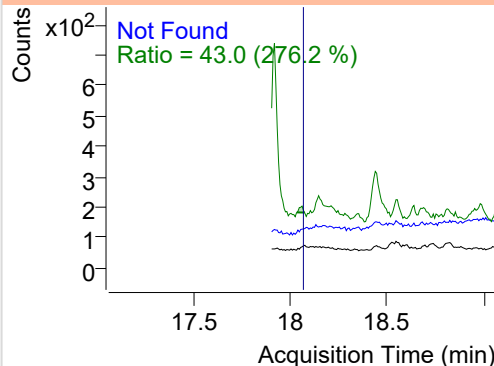
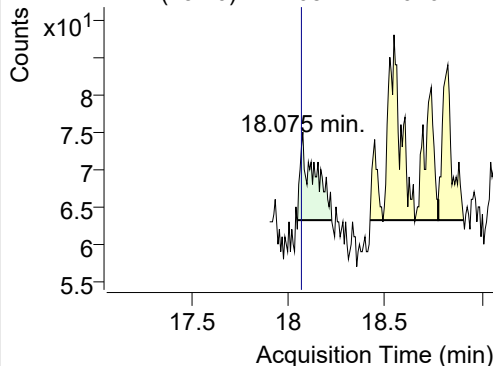


+ SIM (15.724-15.936 min, 39 scans) (**) 2212

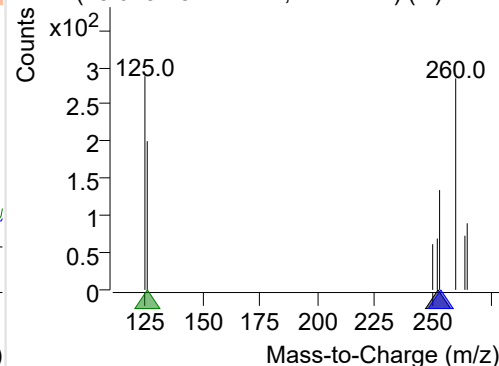
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-026.D

252.0, 253.0, 126.0



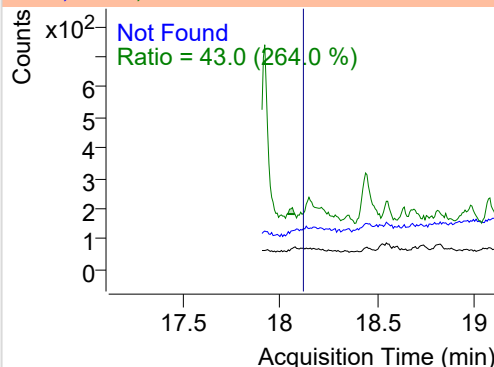
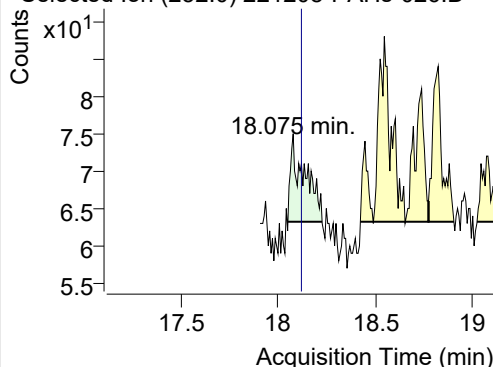
+ SIM (18.048-18.224 min, 24 scans) (**) 2212



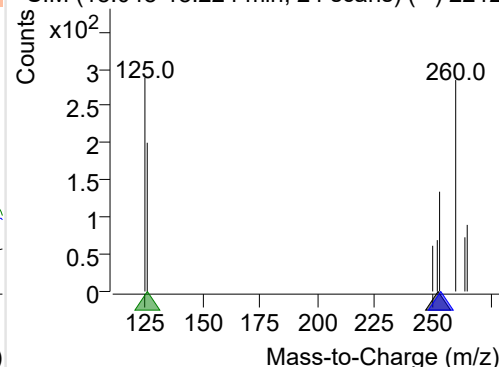
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-026.D

252.0, 253.0, 126.0

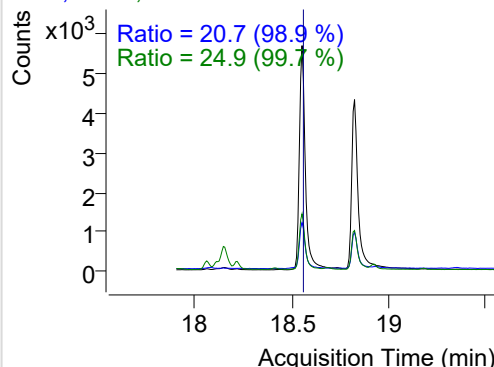
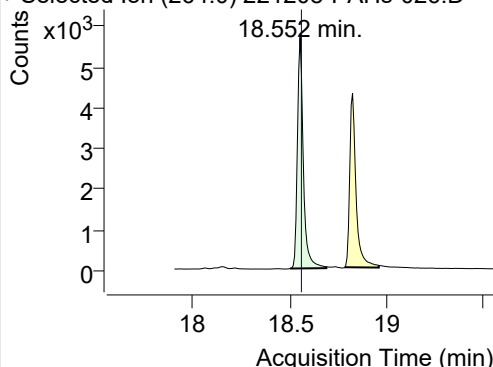


+ SIM (18.048-18.224 min, 24 scans) (**) 2212

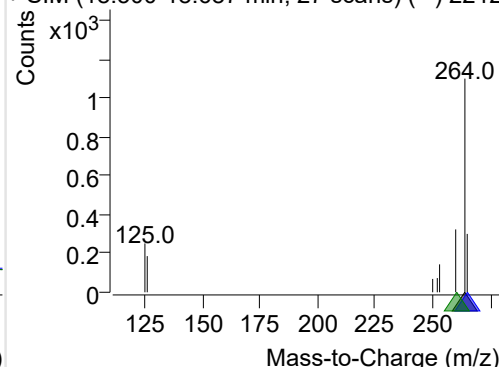
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-026.D

264.0, 265.0, 260.0

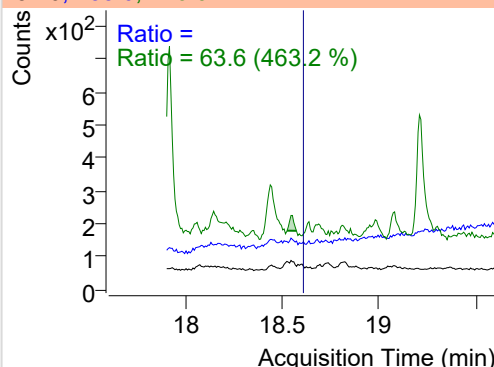
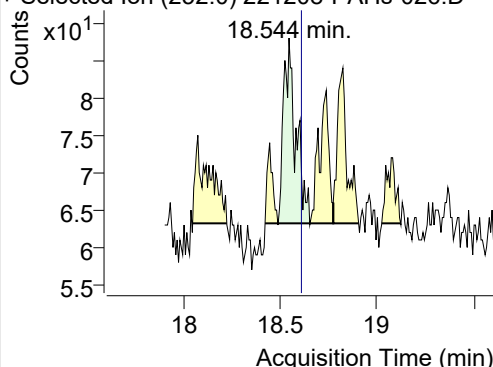


+ SIM (18.500-18.687 min, 27 scans) (**) 2212

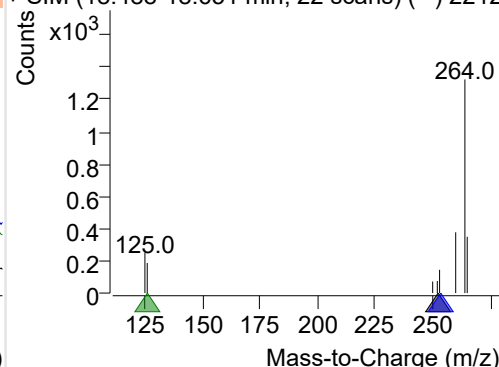
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-026.D

252.0, 253.0, 126.0

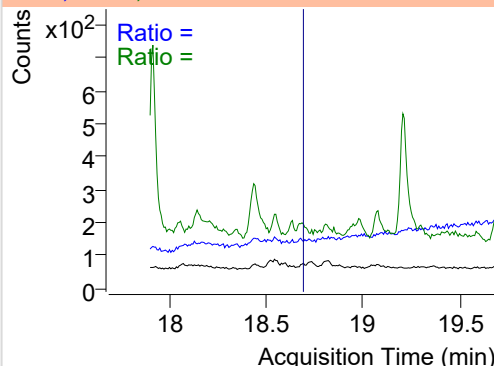
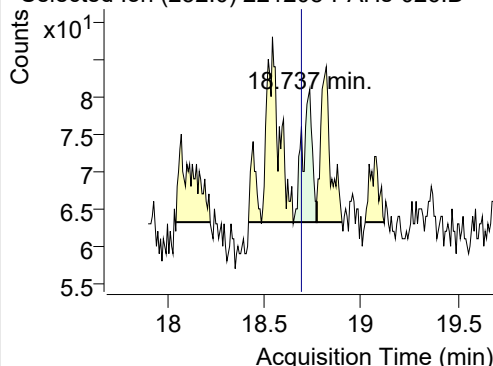


+ SIM (18.488-18.651 min, 22 scans) (**) 2212

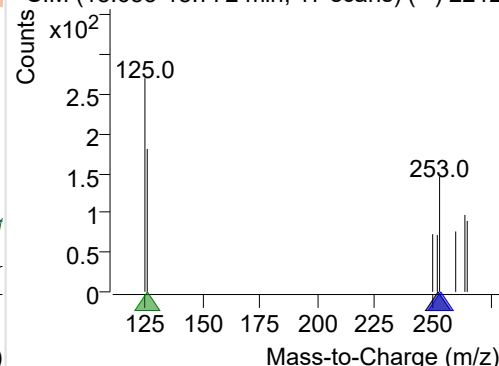
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-026.D

252.0, 253.0, 126.0

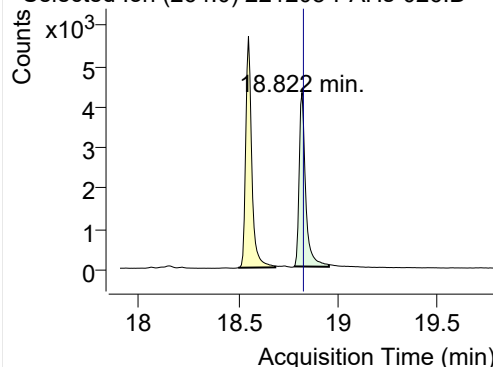


+ SIM (18.653-18.772 min, 17 scans) (**) 2212

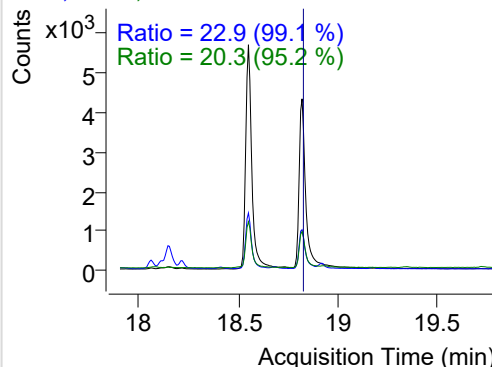


IS-D12-Perylene

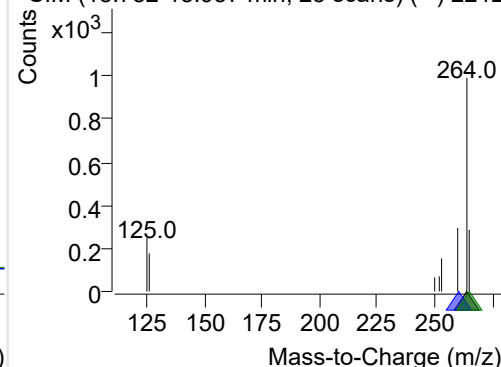
+ Selected Ion (264.0) 221208-PAHs-026.D



264.0, 260.0, 265.0

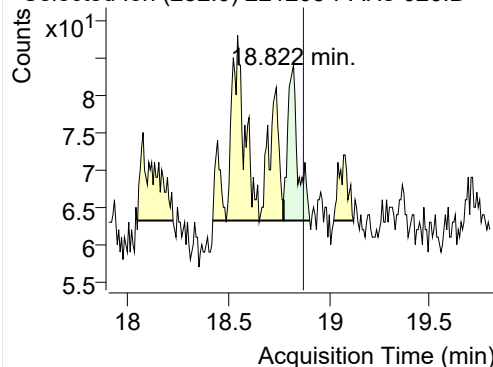


+ SIM (18.782-18.957 min, 25 scans) (**) 2212

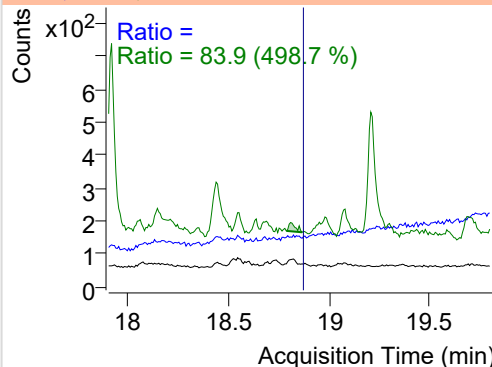


Perylene

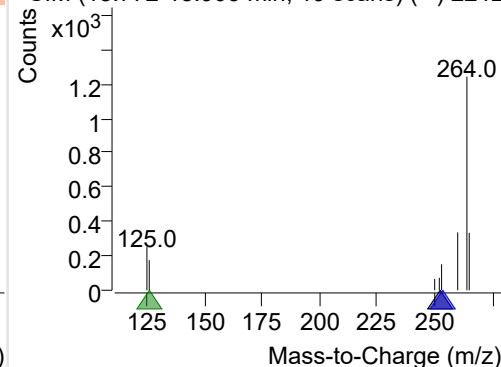
+ Selected Ion (252.0) 221208-PAHs-026.D



252.0, 253.0, 126.0

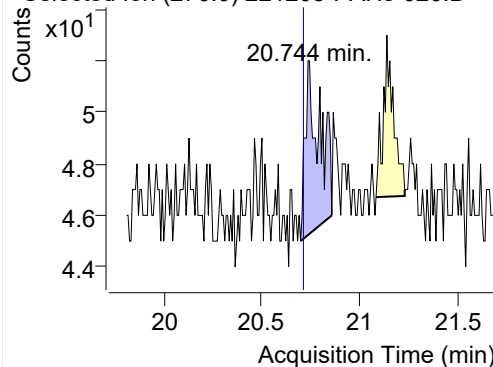


+ SIM (18.772-18.903 min, 19 scans) (**) 2212

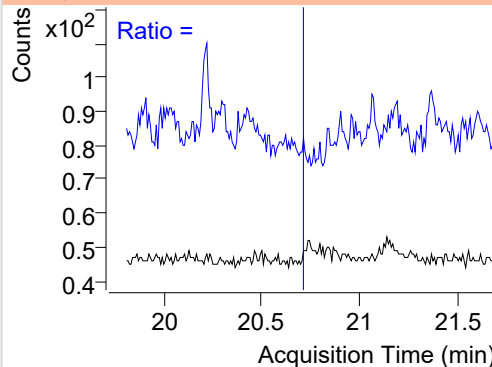


Indeno(1,2,3-c,d)pyrene

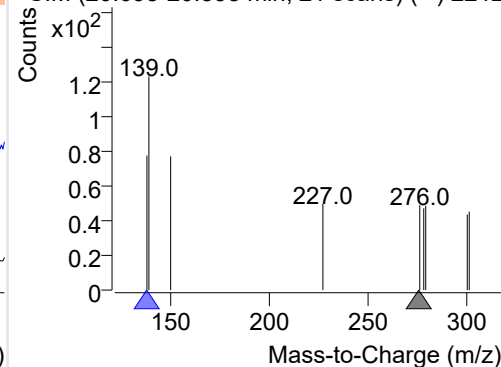
+ Selected Ion (276.0) 221208-PAHs-026.D



276.0, 138.0

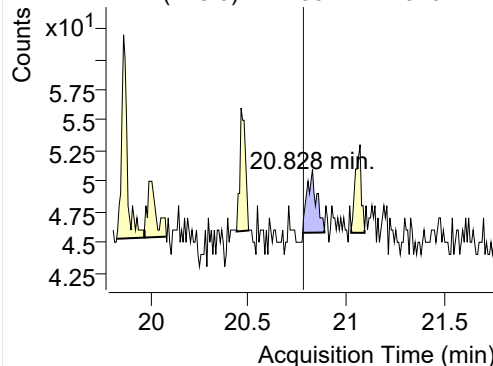


+ SIM (20.698-20.858 min, 21 scans) (**) 2212

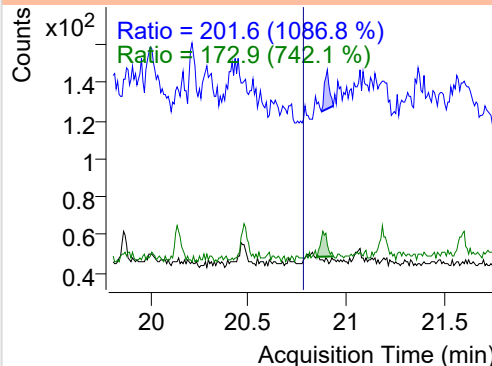


Dibenz(a,h)anthracene

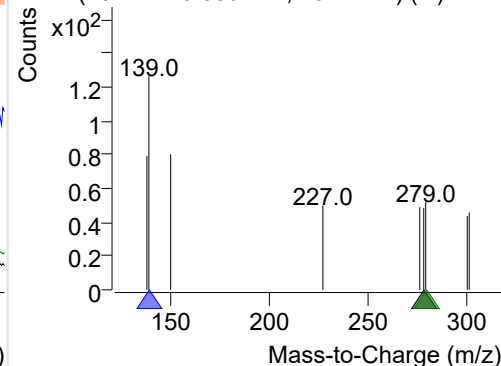
+ Selected Ion (278.0) 221208-PAHs-026.D



278.0, 139.0, 279.0

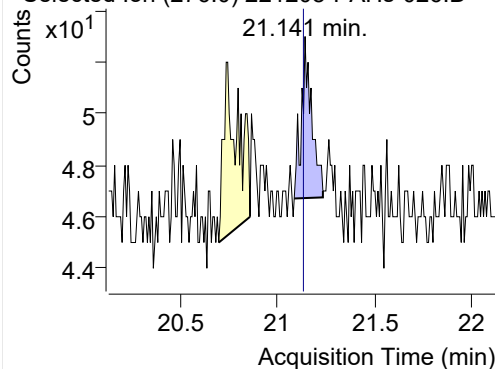


+ SIM (20.777-20.889 min, 15 scans) (**) 2212

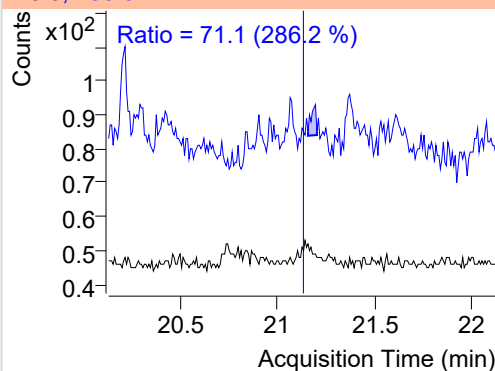


Benzo(g,h,i)perylene

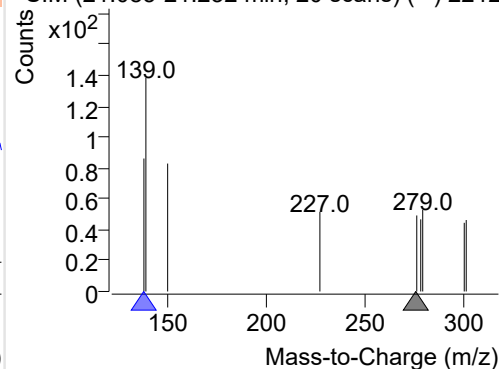
+ Selected Ion (276.0) 221208-PAHs-026.D



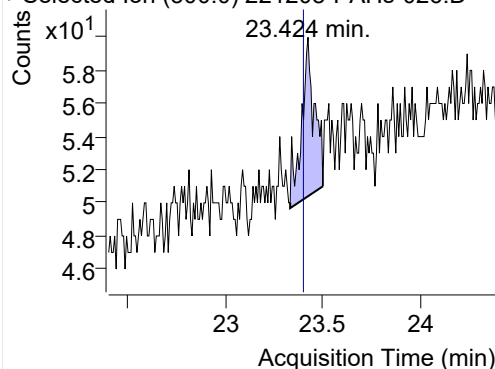
276.0, 138.0



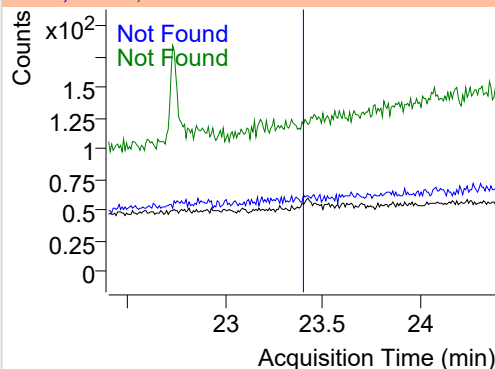
+ SIM (21.085-21.232 min, 20 scans) (**) 2212

**Coronene**

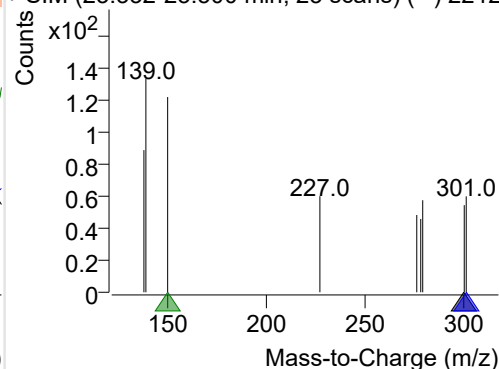
+ Selected Ion (300.0) 221208-PAHs-026.D



300.0, 301.0, 150.0



+ SIM (23.332-23.500 min, 23 scans) (**) 2212



Quantitative Analysis Sample Based Report

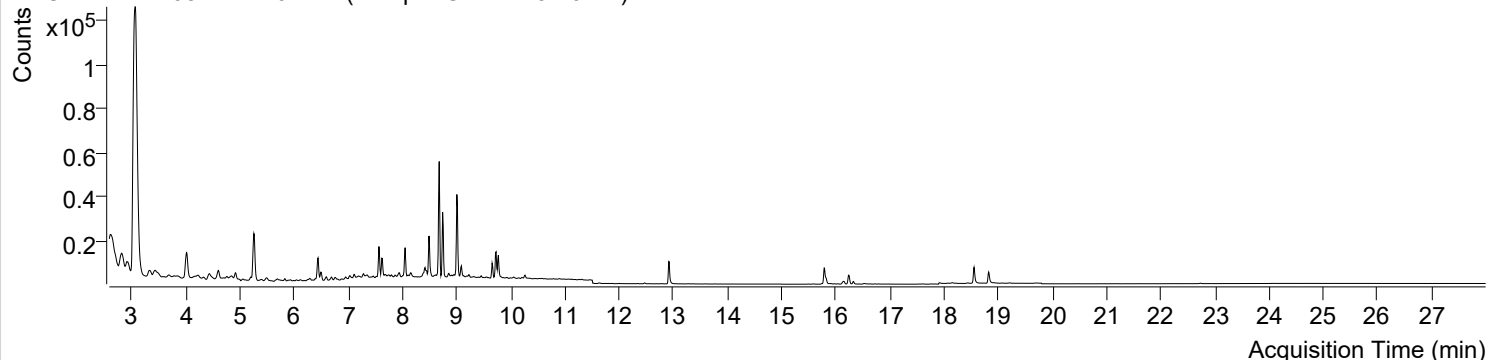


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 7:05:21	Data File	221208-PAHs-027.D
Type	Sample	Name	Sample-Gas-1125-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

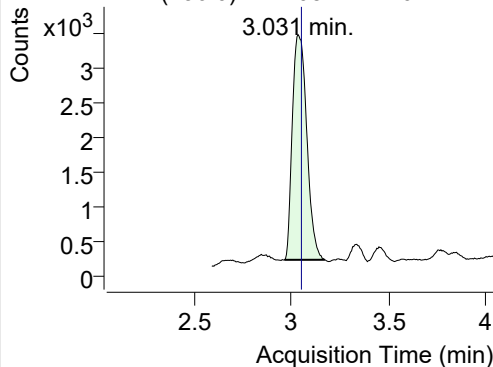
+ TIC SIM 221208-PAHs-027.D (Sample-Gas-1125-10DIL)



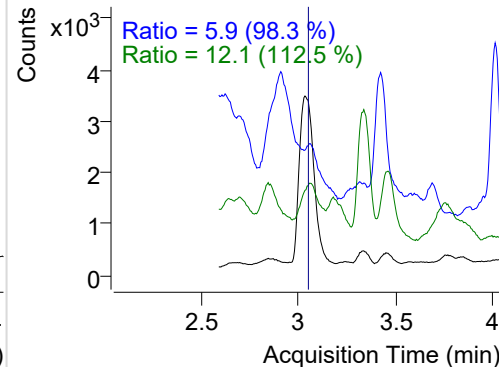
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.031	136.0	16747	3243.11	ND ng/ml	12.1
Naphthalene	3.069	128.0	490742	94994.32	ND ng/ml	13.7
Acenaphthylene	6.108	152.0	709	318.43	ND ng/ml	87.5
IS-D10-Acenaphthene	6.439	164.0	10463	4936.52	ND ng/ml	89.3
Acenaphthene	6.499	154.0	2245	999.70	ND ng/ml	96.8
LSS-D10-Fluorene	7.564	176.0	10390	6072.91	ND ng/ml	91.2
Fluorene	7.617	166.0	8013	3986.07	ND ng/ml	106.8
IS-D10-Phenanthrene	9.728	188.0	16980	9549.34	ND ng/ml	18.2
Phenanthrene	9.770	178.0	11520	6643.09	ND ng/ml	19.2
Anthracene	9.770	178.0	11520	6643.09	ND ng/ml	19.2
Fluoranthene	12.472	202.0	470	246.75	ND ng/ml	37.2
LSS-D10-Pyrene	12.922	212.0	13525	7408.21	ND ng/ml	18.9
Pyrene	12.949	202.0	499	247.00	ND ng/ml	19.9
Benz(a)anthracene	15.827	228.0	225	59.63	ND ng/ml	20.8
IS-D12-Chrysene	15.789	240.0	9904	5415.55	ND ng/ml	18.7
Chrysene	15.827	228.0	225	59.63	ND ng/ml	20.8
Benzo(b)fluoranthene	18.089	252.0	42	7.41	ND ng/ml	68.3
Benzo(k)fluoranthene	18.089	252.0	42	7.41	ND ng/ml	68.3
SS-D12-Benzo(e)pyrene	18.552	264.0	10359	4894.57	ND ng/ml	24.7
Benzo(e)pyrene	18.537	252.0	99	21.41	ND ng/ml	
Benzo(a)pyrene	18.737	252.0	40	14.41	ND ng/ml	
IS-D12-Perylene	18.822	264.0	8057	3504.00	ND ng/ml	22.9
Perylene	18.808	252.0	58	19.41	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	21.133	276.0	14	6.40	ND ng/ml	218.3
Dibenz(a,h)anthracene	20.461	278.0	8	5.76	ND ng/ml	307.3
Benzo(g,h,i)perylene	21.133	276.0	14	6.40	ND ng/ml	218.3
Coronene	23.424	300.0	23	6.14	ND ng/ml	

IS-D8-Naphthalene

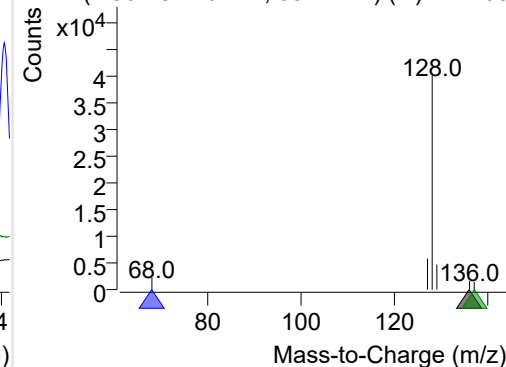
+ Selected Ion (136.0) 221208-PAHs-027.D



136.0, 68.0, 137.0

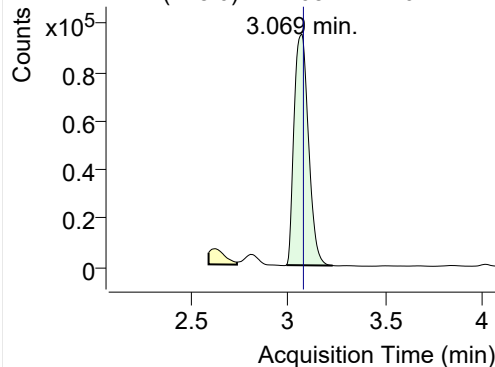


+ SIM (2.961-3.170 min, 38 scans) (**) 221208

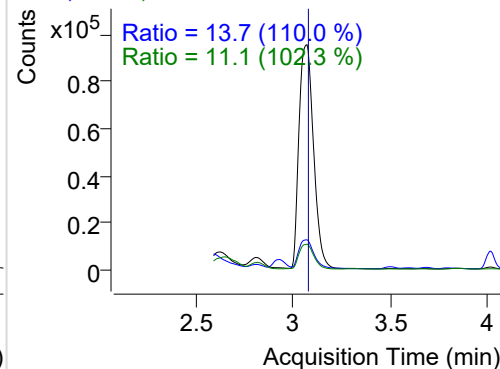


Naphthalene

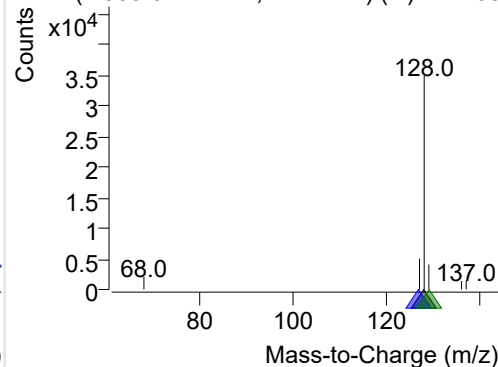
+ Selected Ion (128.0) 221208-PAHs-027.D



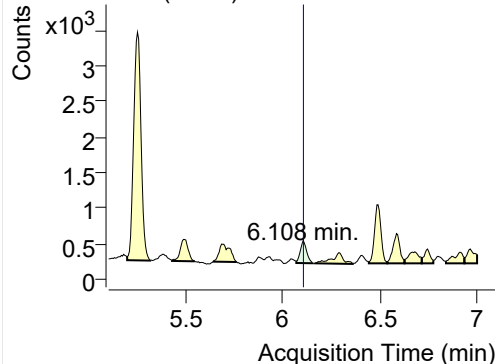
128.0, 127.0, 129.0



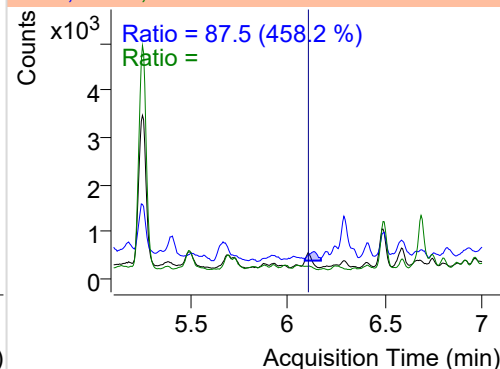
+ SIM (2.988-3.227 min, 44 scans) (**) 221208

**Acenaphthylene**

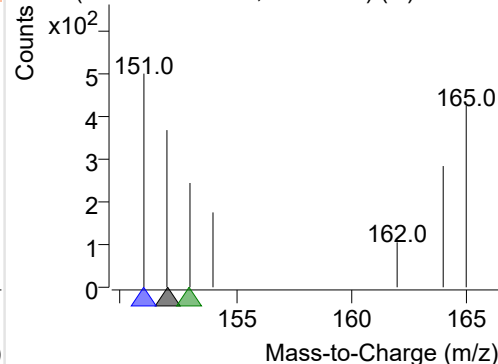
+ Selected Ion (152.0) 221208-PAHs-027.D



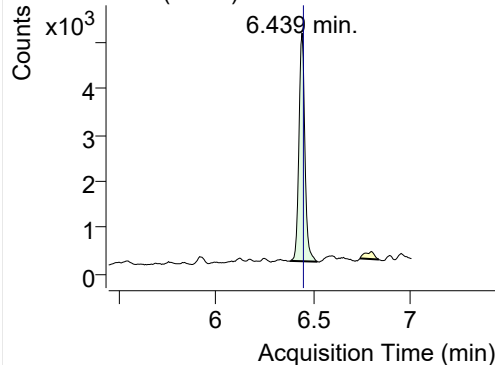
152.0, 151.0, 153.0



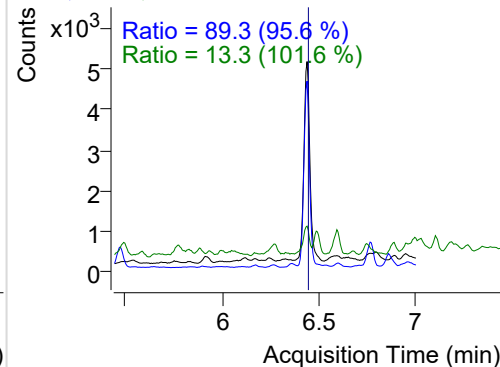
+ SIM (6.072-6.155 min, 15 scans) (**) 221208

**IS-D10-Acenaphthene**

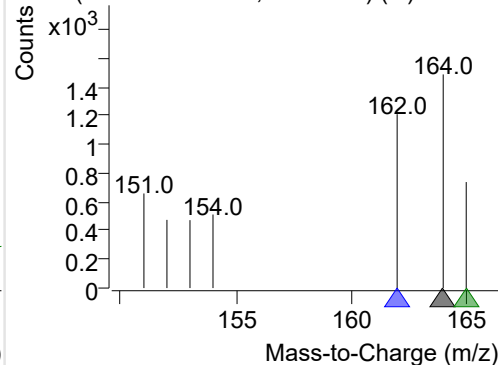
+ Selected Ion (164.0) 221208-PAHs-027.D



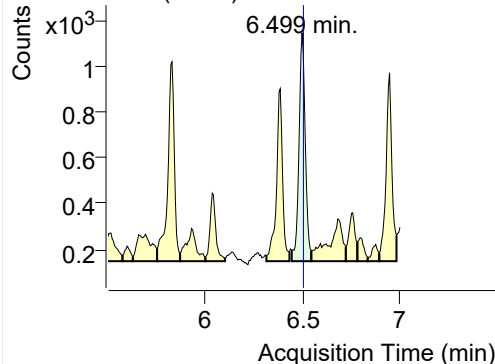
164.0, 162.0, 165.0



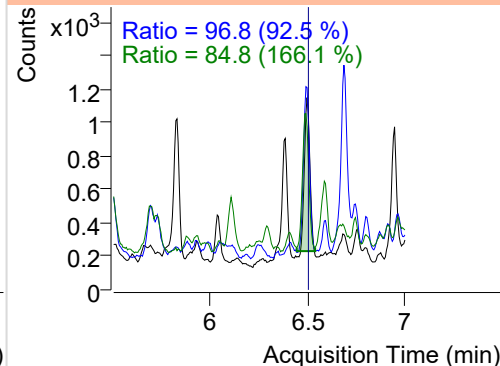
+ SIM (6.380-6.518 min, 24 scans) (**) 221208

**Acenaphthene**

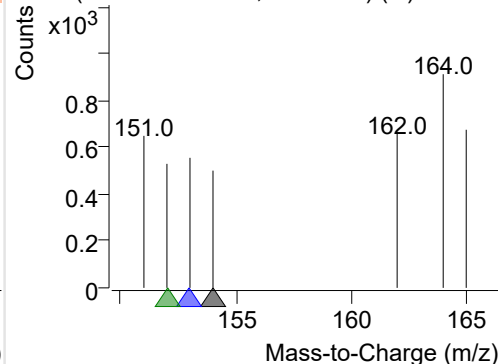
+ Selected Ion (154.0) 221208-PAHs-027.D



154.0, 153.0, 152.0

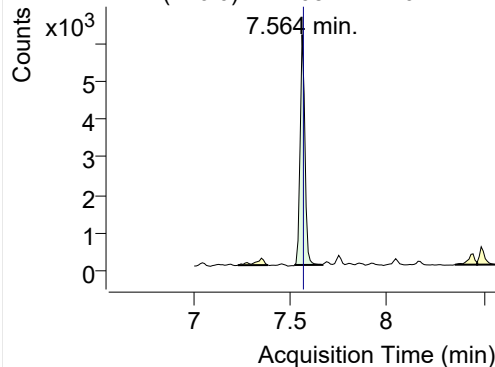


+ SIM (6.445-6.546 min, 18 scans) (**) 221208

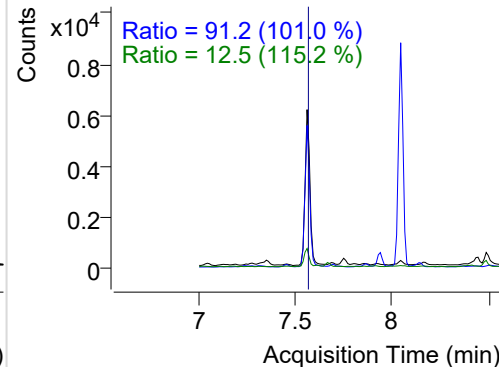


LSS-D10-Fluorene

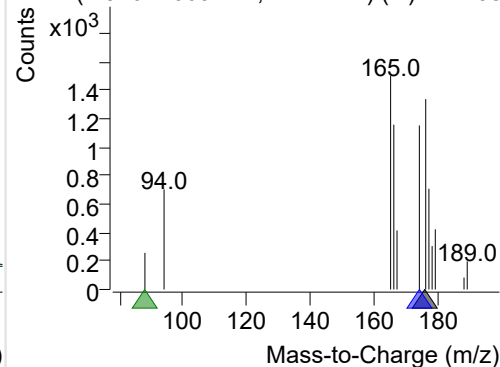
+ Selected Ion (176.0) 221208-PAHs-027.D



176.0, 174.0, 88.0

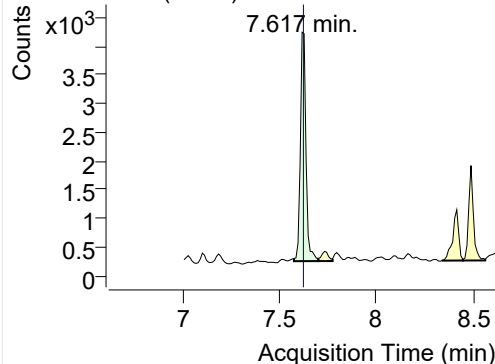


+ SIM (7.526-7.669 min, 14 scans) (**) 221208

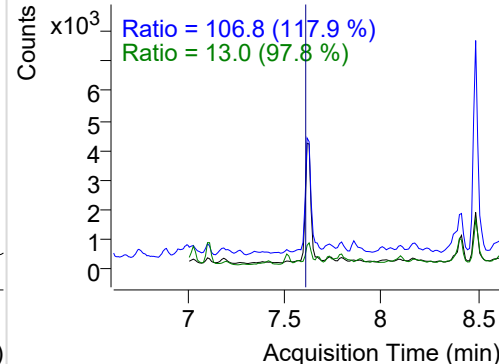


Fluorene

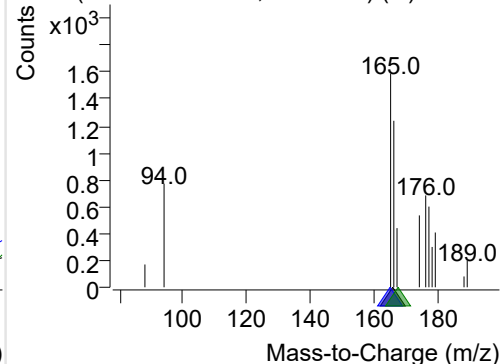
+ Selected Ion (166.0) 221208-PAHs-027.D



166.0, 165.0, 167.0

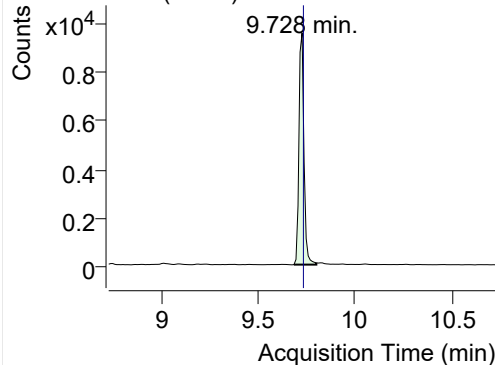


+ SIM (7.575-7.701 min, 13 scans) (**) 221208

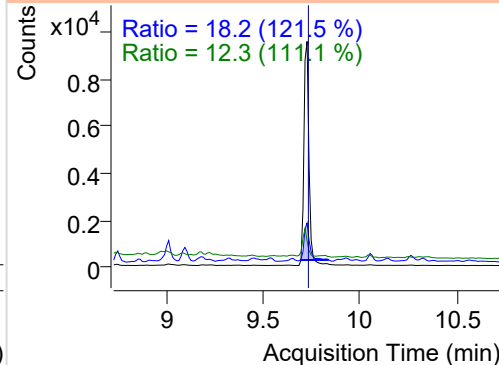


IS-D10-Phenanthrene

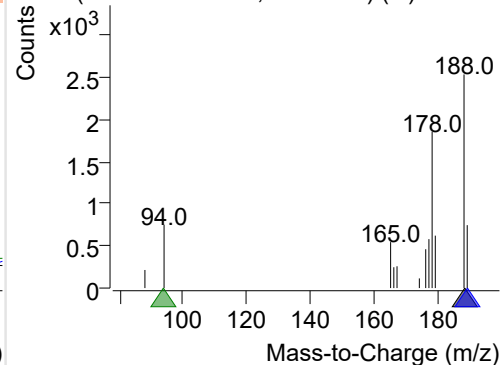
+ Selected Ion (188.0) 221208-PAHs-027.D



188.0, 189.0, 94.0

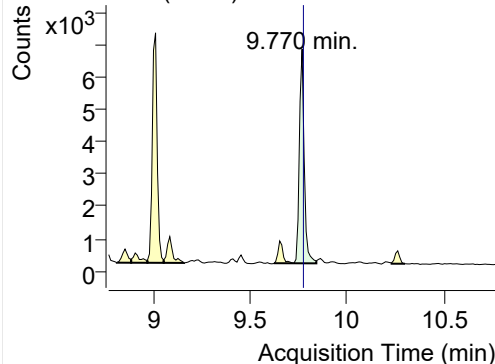


+ SIM (9.686-9.801 min, 11 scans) (**) 221208

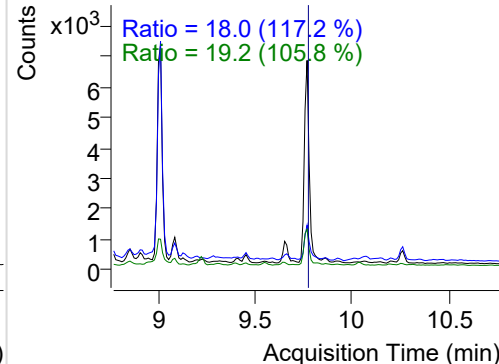


Phenanthrene

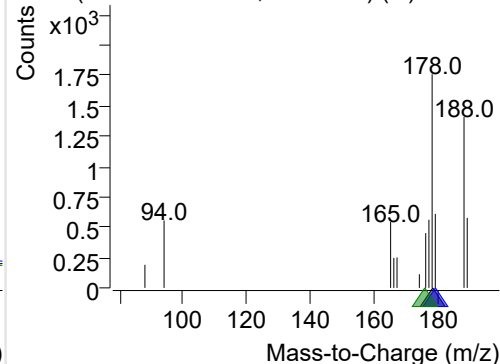
+ Selected Ion (178.0) 221208-PAHs-027.D



178.0, 179.0, 176.0

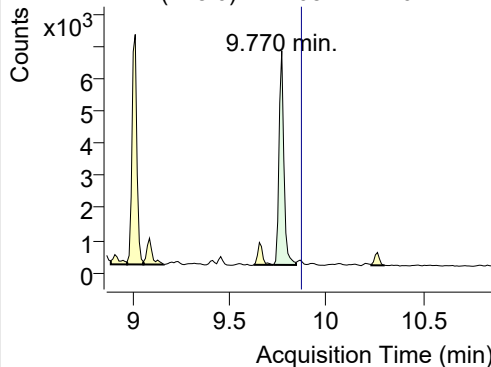


+ SIM (9.728-9.843 min, 12 scans) (**) 221208

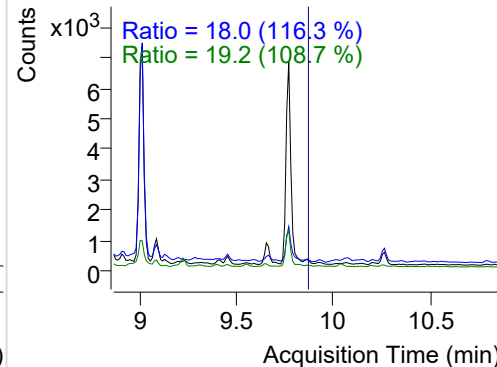


Anthracene

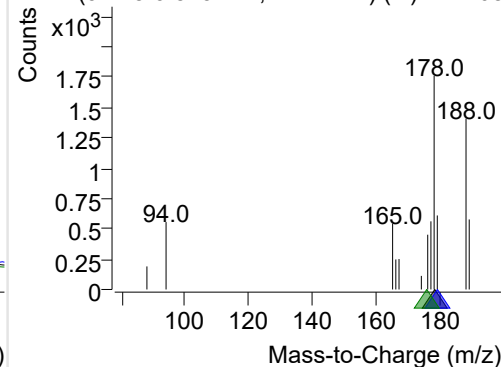
+ Selected Ion (178.0) 221208-PAHs-027.D



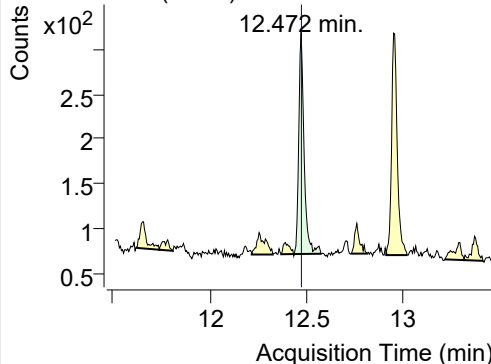
178.0, 179.0, 176.0



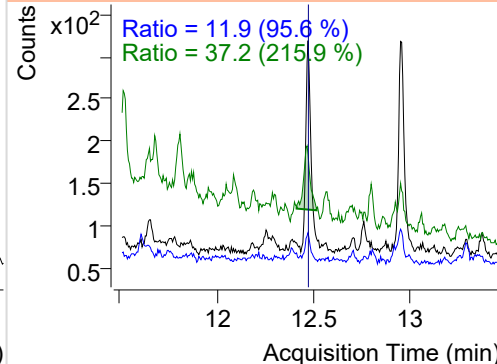
+ SIM (9.728-9.843 min, 12 scans) (**) 221208

**Fluoranthene**

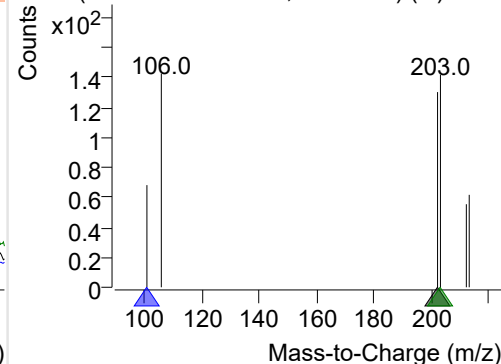
+ Selected Ion (202.0) 221208-PAHs-027.D



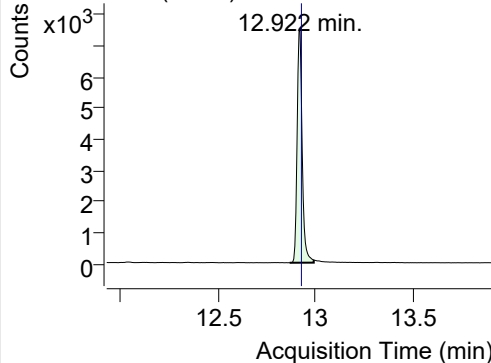
202.0, 101.0, 203.0



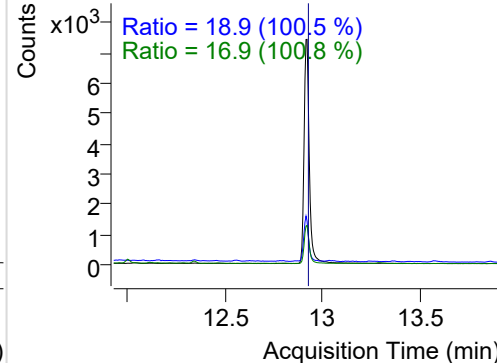
+ SIM (12.436-12.575 min, 25 scans) (**) 2212

**LSS-D10-Pyrene**

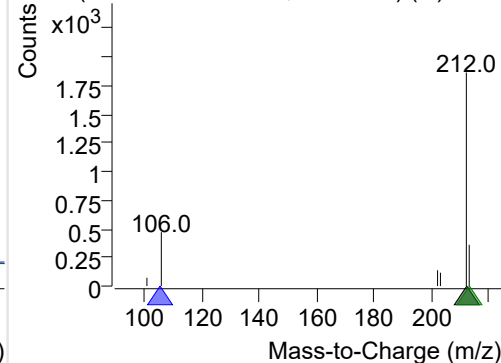
+ Selected Ion (212.0) 221208-PAHs-027.D



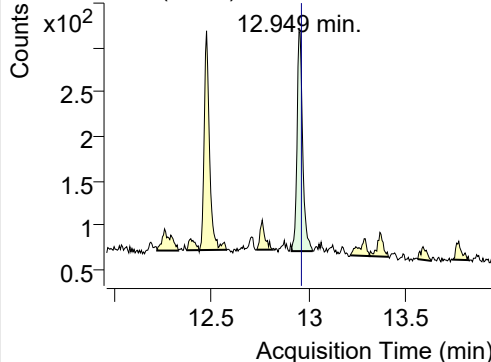
212.0, 106.0, 213.0



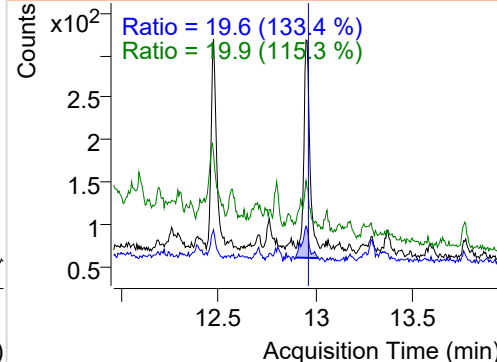
+ SIM (12.868-12.992 min, 23 scans) (**) 2212

**Pyrene**

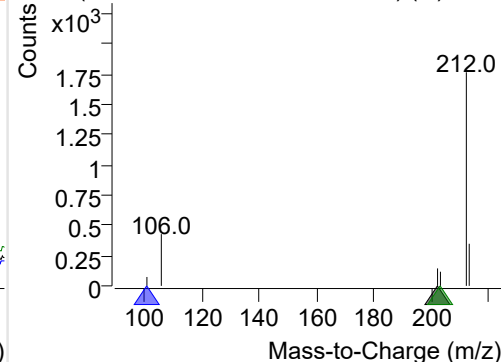
+ Selected Ion (202.0) 221208-PAHs-027.D



202.0, 101.0, 203.0



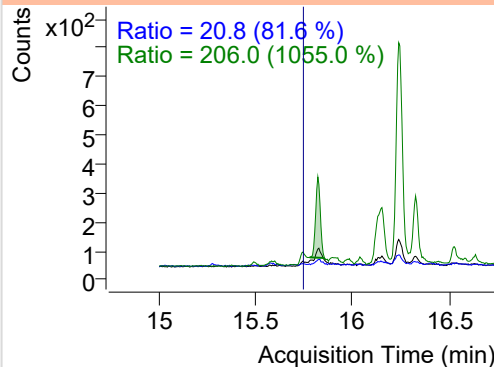
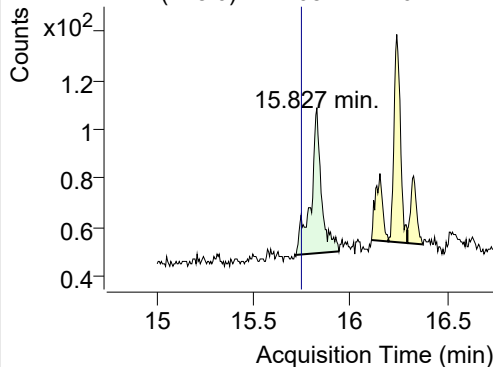
+ SIM (12.911-13.020 min, 21 scans) (**) 2212



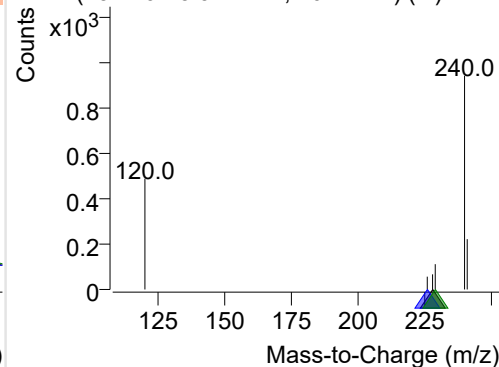
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-027.D

228.0, 226.0, 229.0

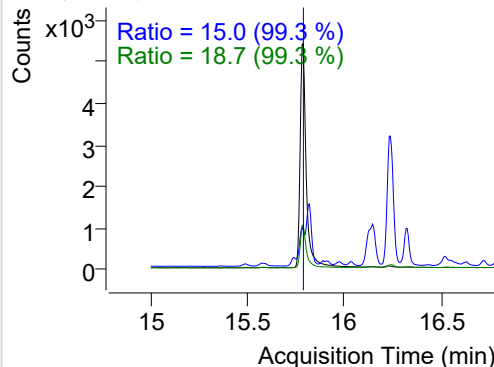
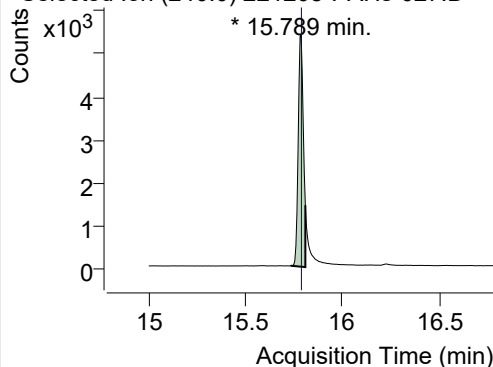


+ SIM (15.720-15.941 min, 40 scans) (**) 2212

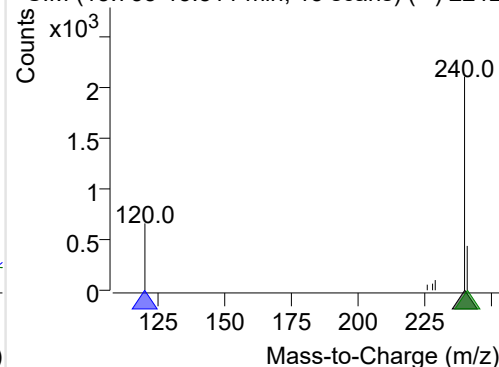
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-027.D

240.0, 120.0, 241.0

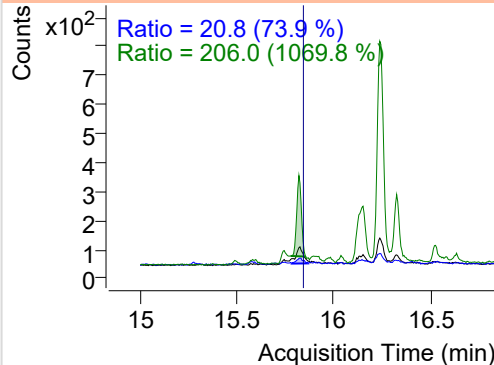
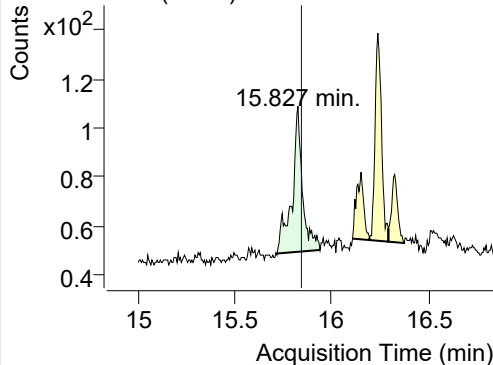


+ SIM (15.735-15.811 min, 15 scans) (**) 2212

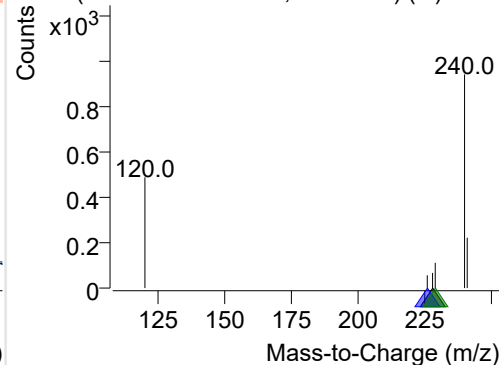
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-027.D

228.0, 226.0, 229.0

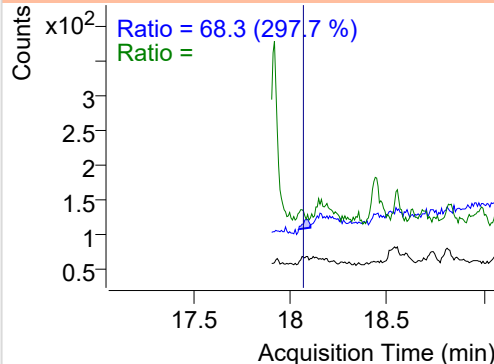
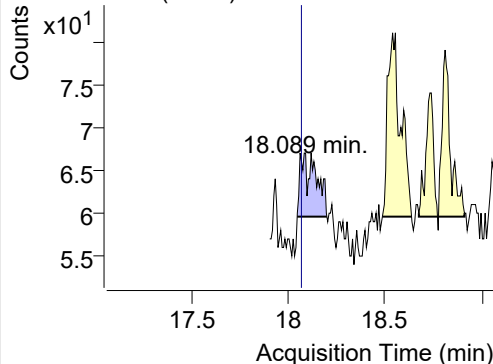


+ SIM (15.720-15.941 min, 40 scans) (**) 2212

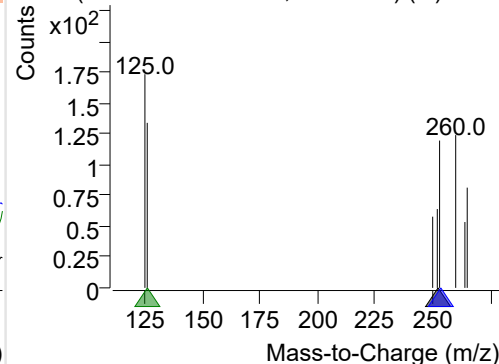
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-027.D

252.0, 253.0, 126.0



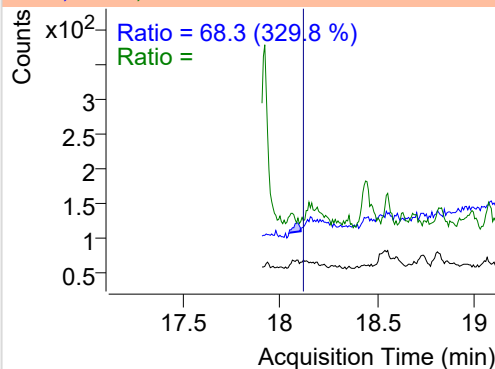
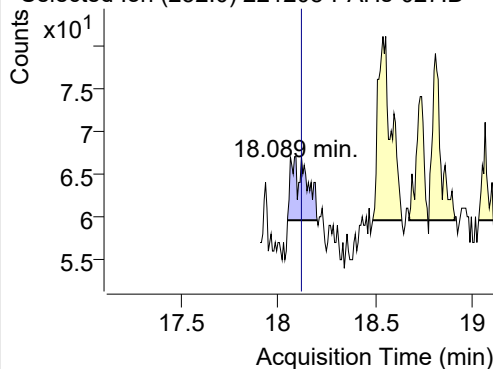
+ SIM (18.045-18.199 min, 22 scans) (**) 2212



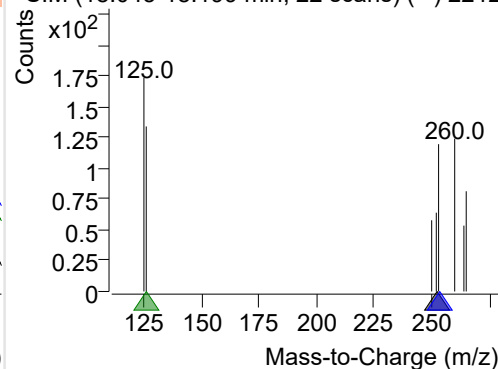
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-027.D

252.0, 253.0, 126.0

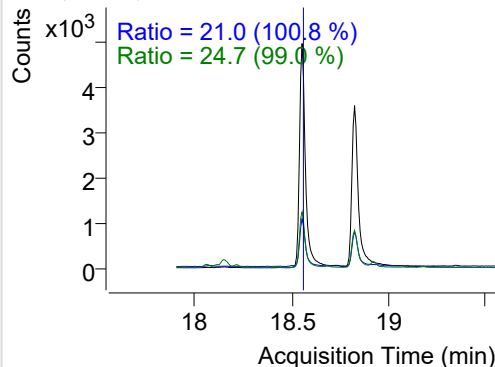
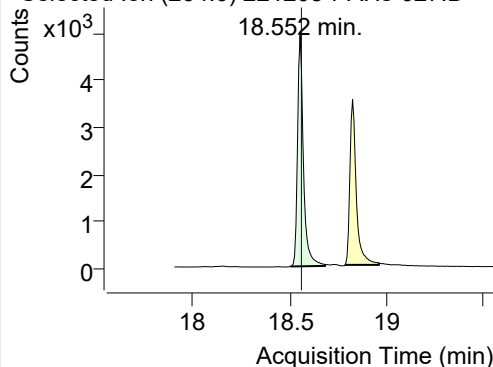


+ SIM (18.045-18.199 min, 22 scans) (**) 2212

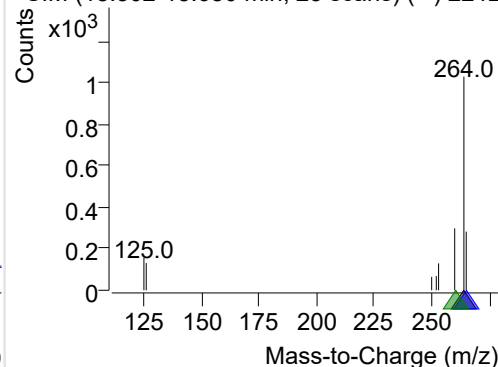
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-027.D

264.0, 265.0, 260.0

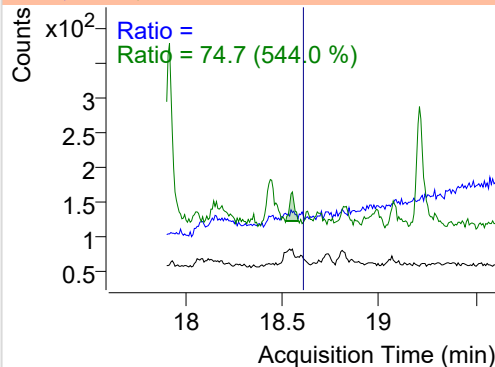
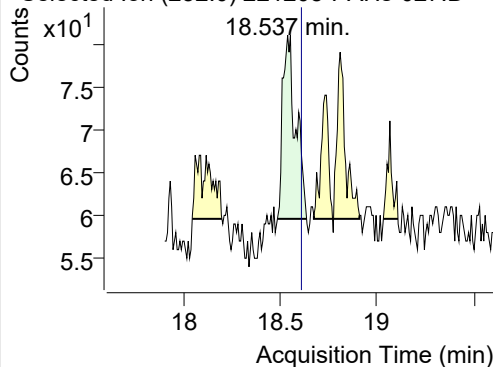


+ SIM (18.502-18.680 min, 25 scans) (**) 2212

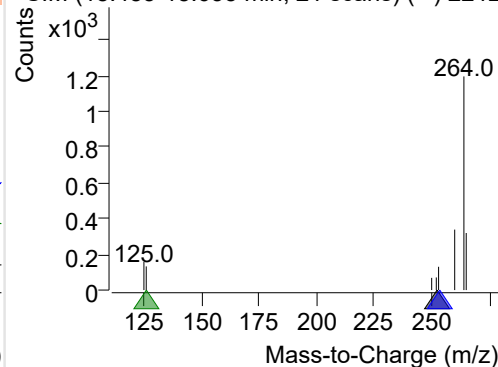
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-027.D

252.0, 253.0, 126.0

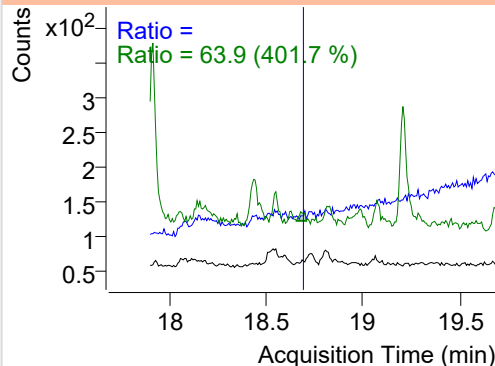
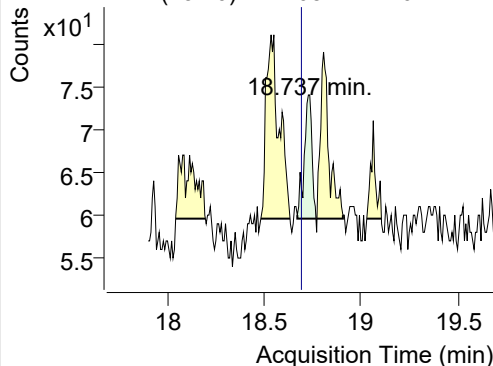


+ SIM (18.485-18.635 min, 21 scans) (**) 2212

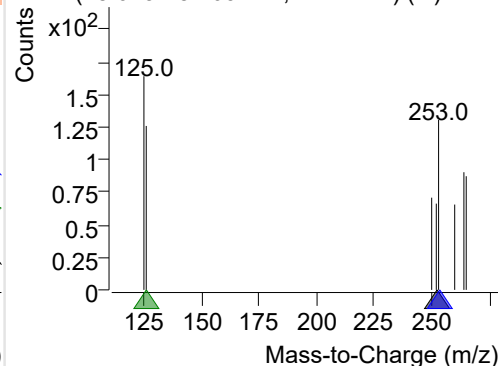
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-027.D

252.0, 253.0, 126.0

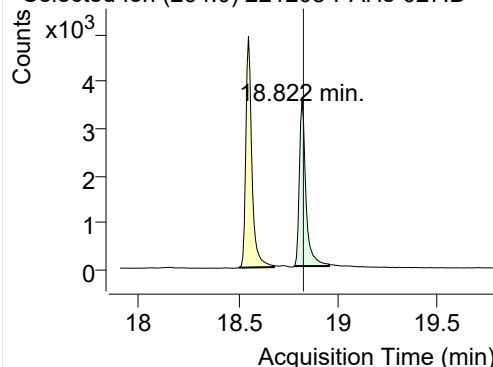


+ SIM (18.673-18.769 min, 14 scans) (**) 2212

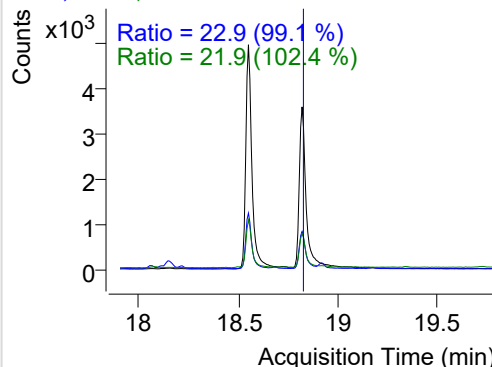


IS-D12-Perylene

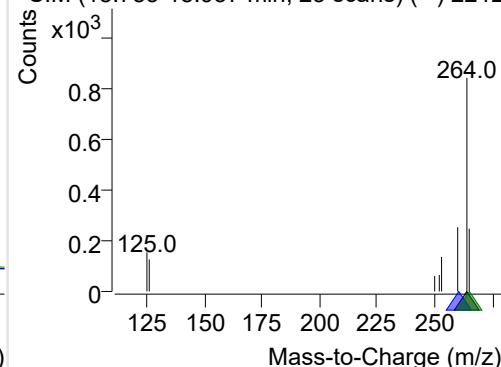
+ Selected Ion (264.0) 221208-PAHs-027.D



264.0, 260.0, 265.0

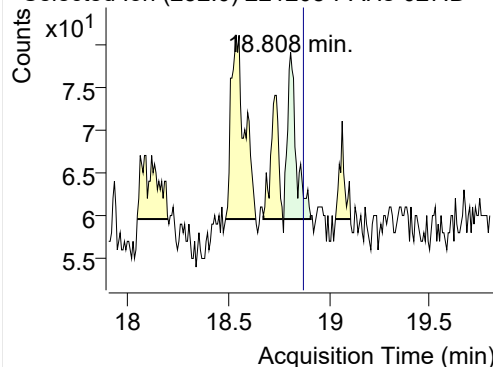


+ SIM (18.783-18.957 min, 25 scans) (**) 2212

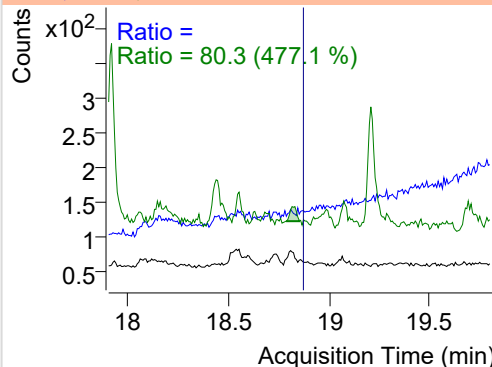


Perylene

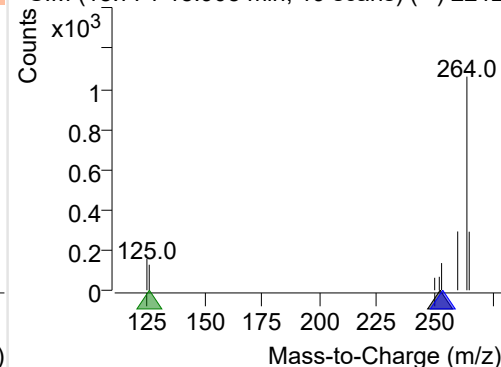
+ Selected Ion (252.0) 221208-PAHs-027.D



252.0, 253.0, 126.0

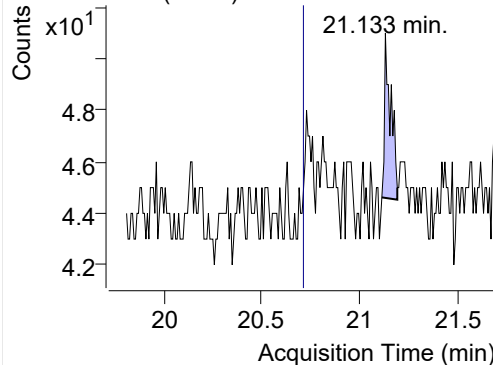


+ SIM (18.774-18.908 min, 19 scans) (**) 2212

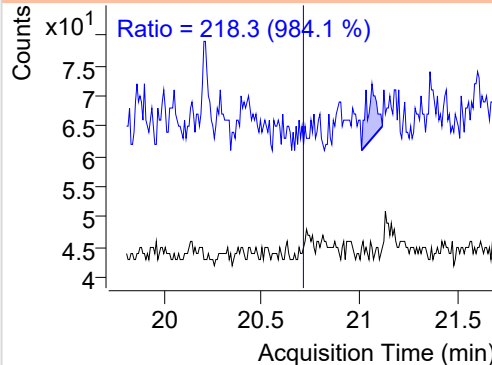


Indeno(1,2,3-c,d)pyrene

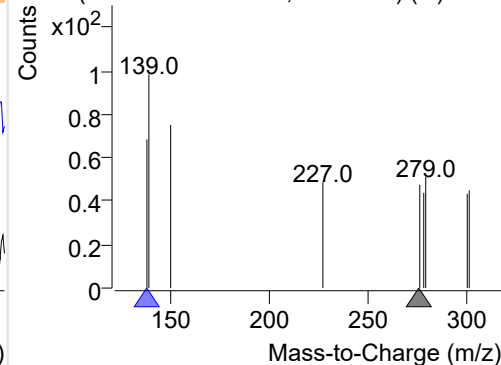
+ Selected Ion (276.0) 221208-PAHs-027.D



276.0, 138.0

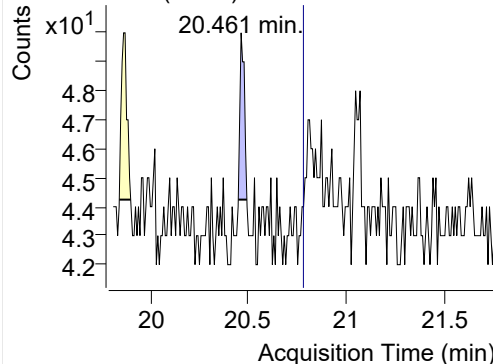


+ SIM (21.115-21.194 min, 11 scans) (**) 2212

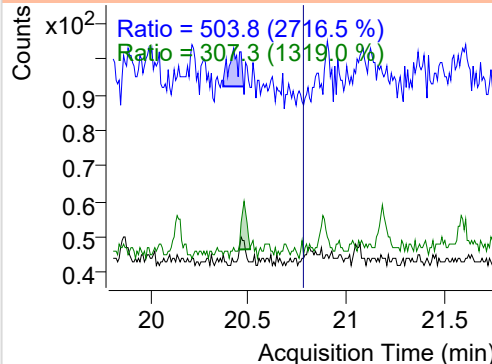


Dibenz(a,h)anthracene

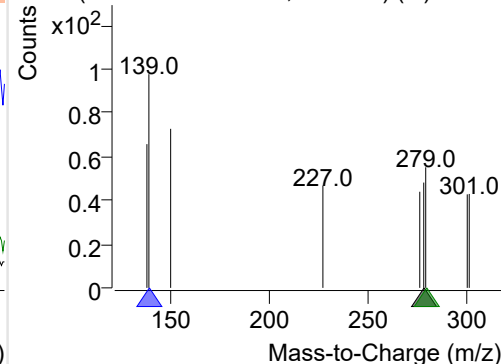
+ Selected Ion (278.0) 221208-PAHs-027.D



278.0, 139.0, 279.0



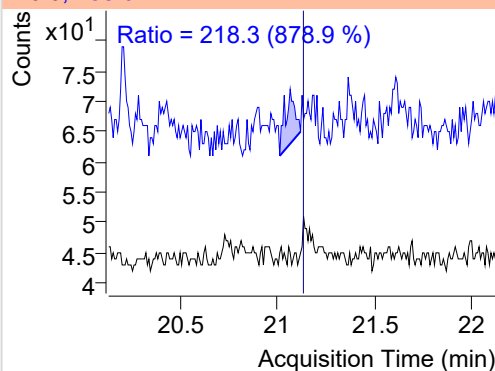
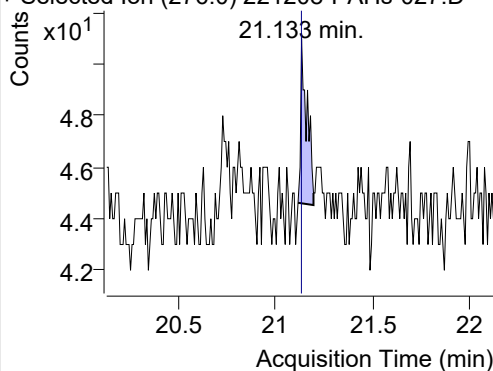
+ SIM (20.447-20.491 min, 5 scans) (**) 22120



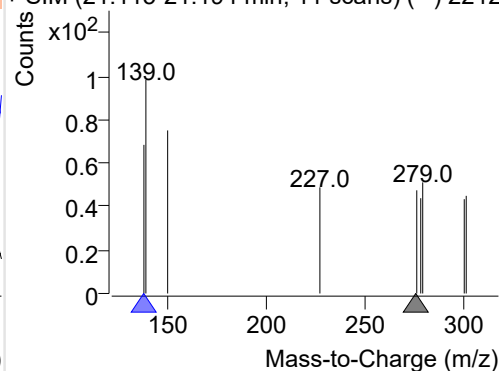
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221208-PAHs-027.D

276.0, 138.0

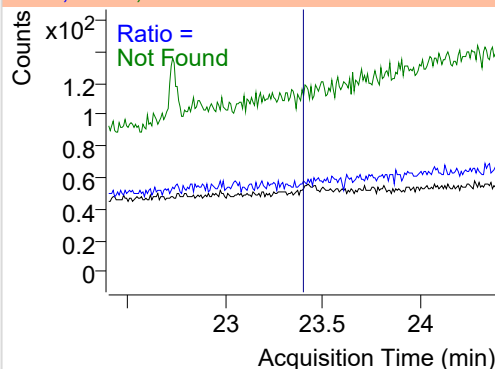
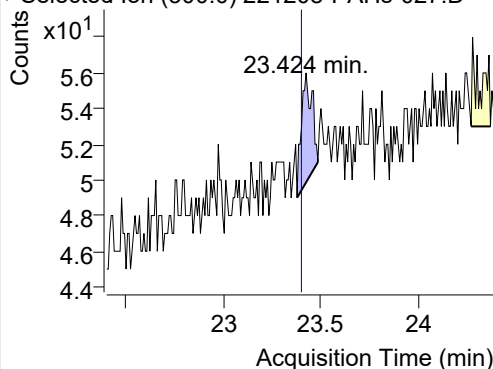


+ SIM (21.115-21.194 min, 11 scans) (**) 2212

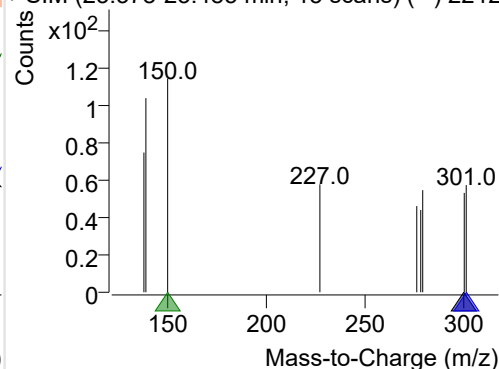
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-027.D

300.0, 301.0, 150.0



+ SIM (23.378-23.485 min, 15 scans) (**) 2212



Quantitative Analysis Sample Based Report

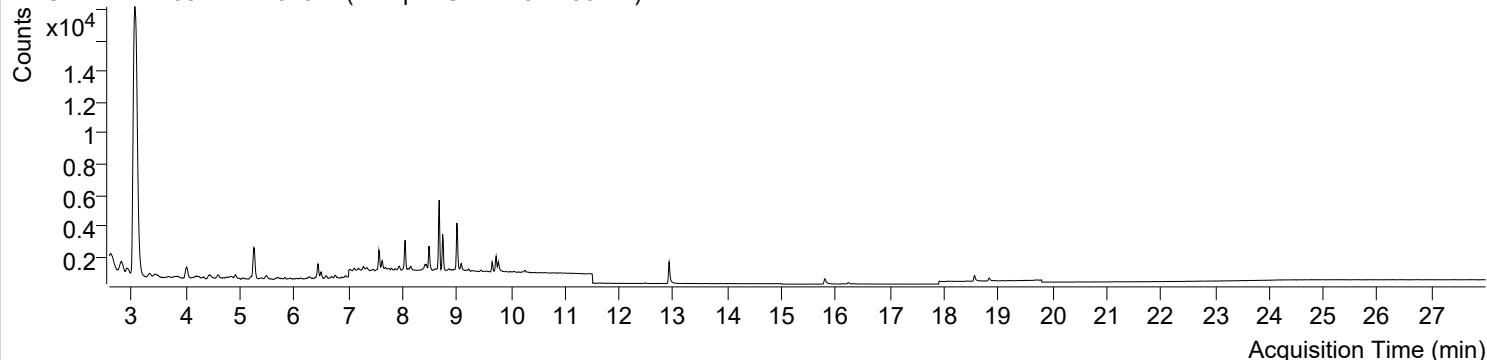


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 8:07:37	Data File	221208-PAHs-029.D
Type	Sample	Name	Sample-Gas-1101-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

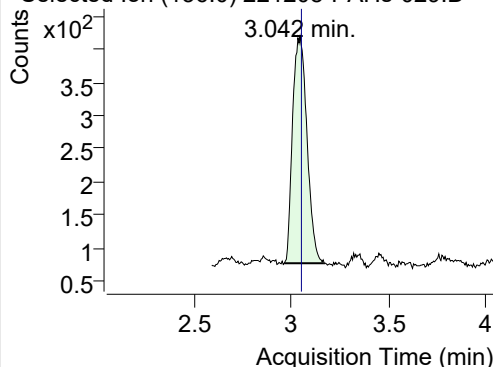
+ TIC SIM 221208-PAHs-029.D (Sample-Gas-1101-100DIL)



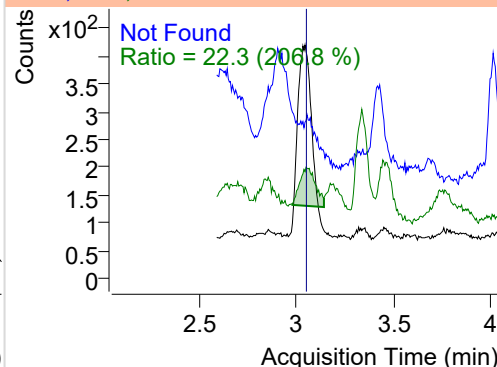
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	1769	343.18	ND ng/ml	22.3
Naphthalene	3.058	128.0	72091	13702.62	ND ng/ml	12.8
Acenaphthylene	6.108	152.0	78	34.02	ND ng/ml	36.1
IS-D10-Acenaphthene	6.439	164.0	997	453.29	ND ng/ml	86.7
Acenaphthene	6.498	154.0	220	111.32	ND ng/ml	102.4
LSS-D10-Fluorene	7.564	176.0	1032	552.11	ND ng/ml	92.2
Fluorene	7.627	166.0	573	279.99	ND ng/ml	111.4
IS-D10-Phenanthrene	9.727	188.0	1524	771.41	ND ng/ml	18.8
Phenanthrene	9.769	178.0	774	360.39	ND ng/ml	20.8
Anthracene	9.769	178.0	774	360.39	ND ng/ml	20.8
Fluoranthene	12.477	202.0	71	25.00	ND ng/ml	16.8
LSS-D10-Pyrene	12.922	212.0	2045	1018.03	ND ng/ml	18.9
Pyrene	12.954	202.0	67	27.00	ND ng/ml	52.7
Benz(a)anthracene	15.838	228.0	26	8.98	ND ng/ml	33.6
IS-D12-Chrysene	15.795	240.0	695	252.66	ND ng/ml	18.9
Chrysene	15.838	228.0	26	8.98	ND ng/ml	33.6
Benzo(b)fluoranthene		252.0			ND ng/ml	
Benzo(k)fluoranthene		252.0			ND ng/ml	
SS-D12-Benzo(e)pyrene	18.559	264.0	615	245.78	ND ng/ml	25.5
Benzo(e)pyrene		252.0			ND ng/ml	
Benzo(a)pyrene		252.0			ND ng/ml	
IS-D12-Perylene	18.829	264.0	362	133.64	ND ng/ml	22.6
Perylene		252.0			ND ng/ml	
Indeno(1,2,3-c,d)pytene		276.0			ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene		276.0			ND ng/ml	
Coronene	23.973	300.0	4	4.40	ND ng/ml	

IS-D8-Naphthalene

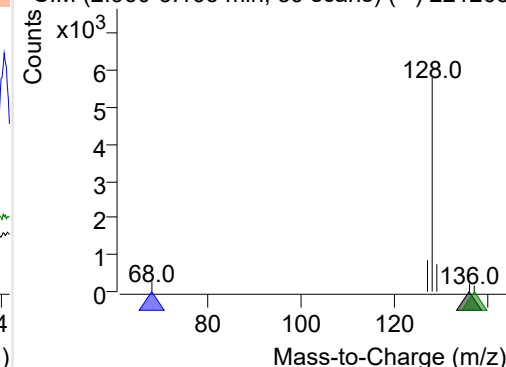
+ Selected Ion (136.0) 221208-PAHs-029.D



136.0, 68.0, 137.0

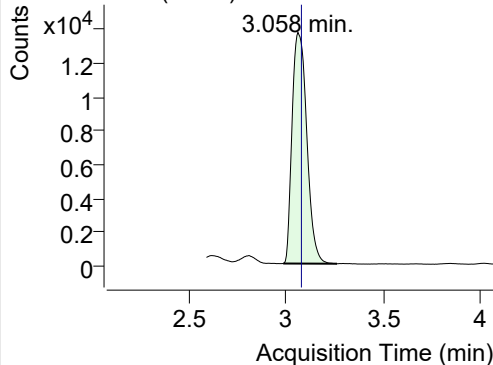


+ SIM (2.960-3.166 min, 39 scans) (**) 221208

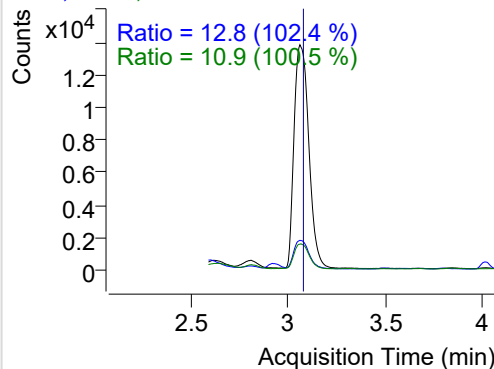


Naphthalene

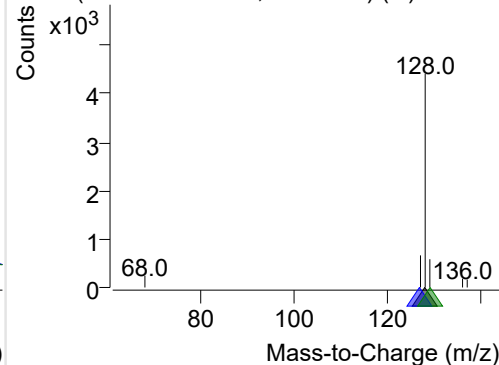
+ Selected Ion (128.0) 221208-PAHs-029.D



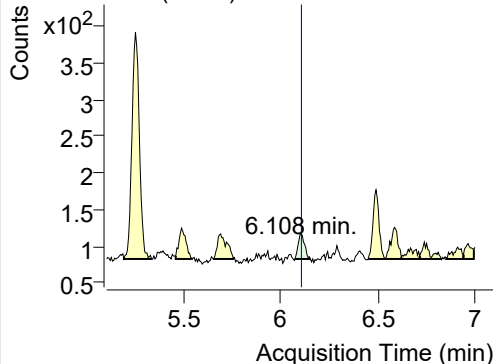
128.0, 127.0, 129.0



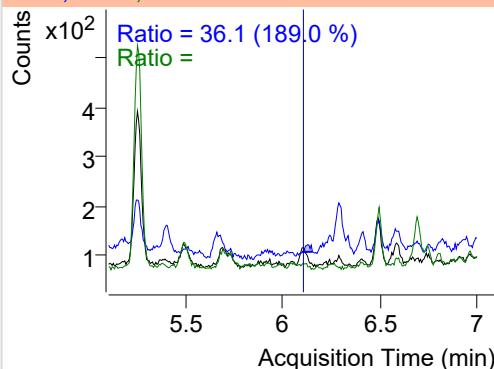
+ SIM (2.982-3.259 min, 52 scans) (**) 221208

**Acenaphthylene**

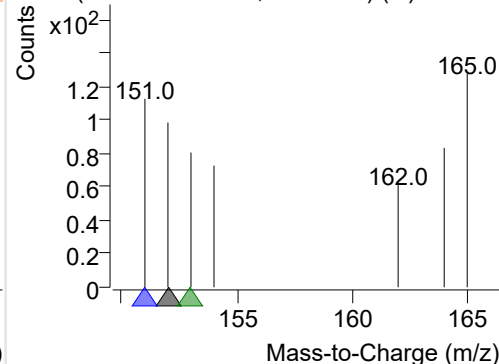
+ Selected Ion (152.0) 221208-PAHs-029.D



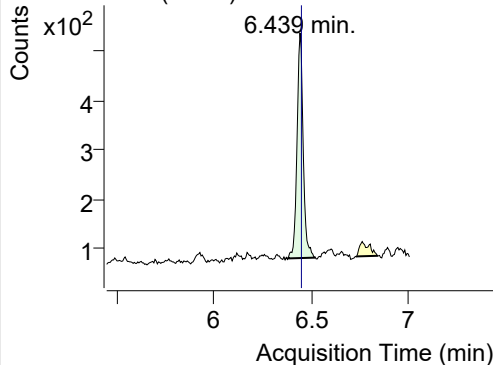
152.0, 151.0, 153.0



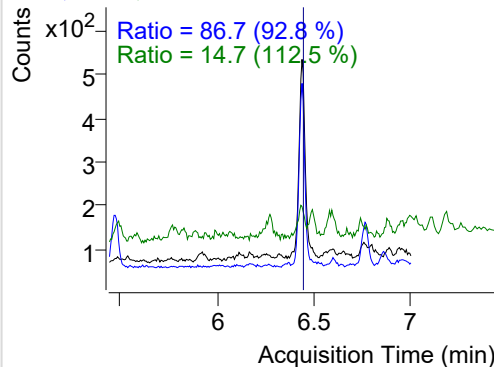
+ SIM (6.075-6.155 min, 14 scans) (**) 221208

**IS-D10-Acenaphthene**

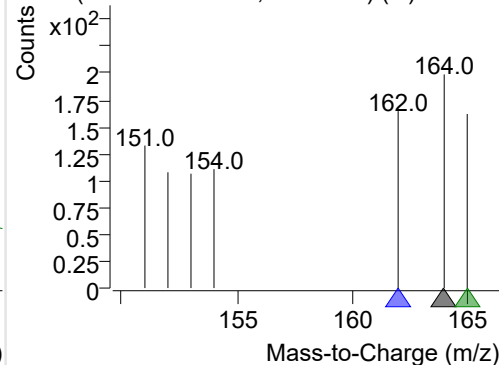
+ Selected Ion (164.0) 221208-PAHs-029.D



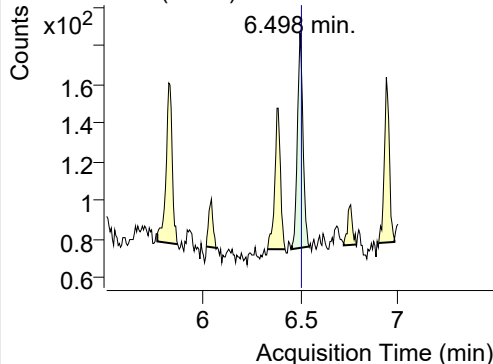
164.0, 162.0, 165.0



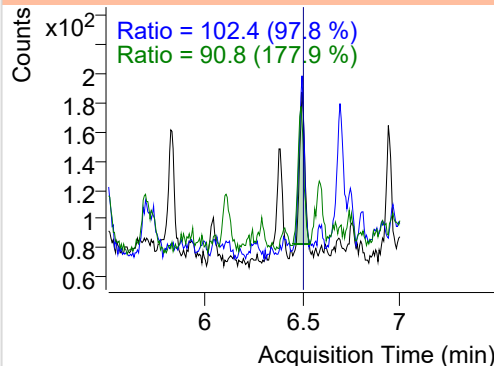
+ SIM (6.380-6.518 min, 24 scans) (**) 221208

**Acenaphthene**

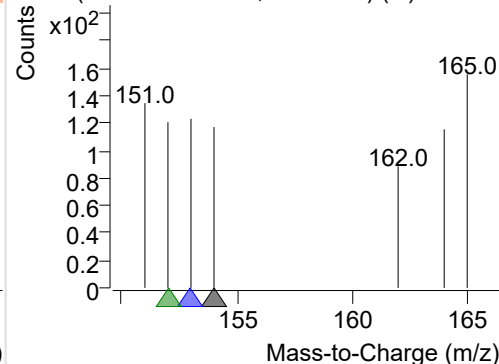
+ Selected Ion (154.0) 221208-PAHs-029.D



154.0, 153.0, 152.0

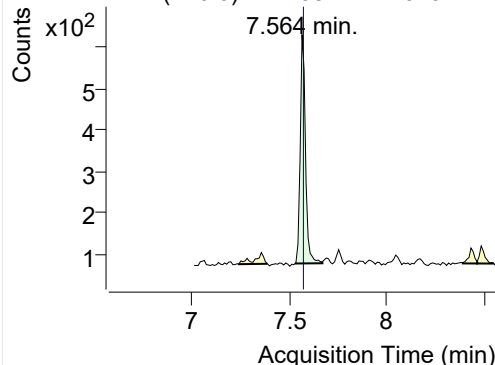


+ SIM (6.457-6.545 min, 15 scans) (**) 221208

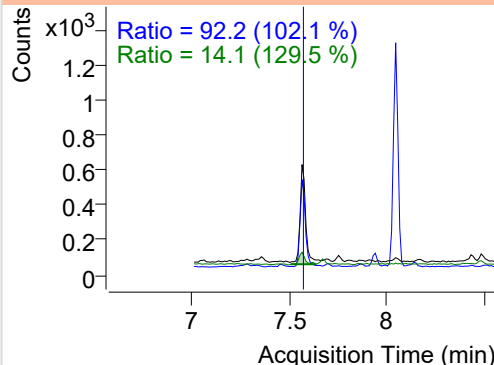


LSS-D10-Fluorene

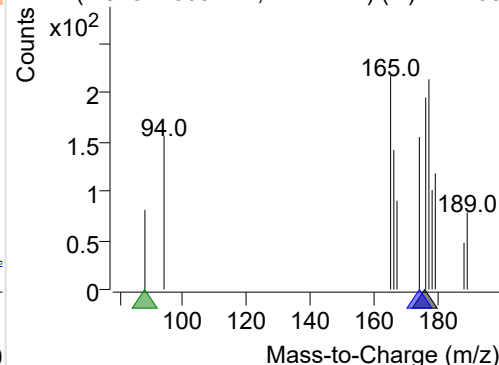
+ Selected Ion (176.0) 221208-PAHs-029.D



176.0, 174.0, 88.0

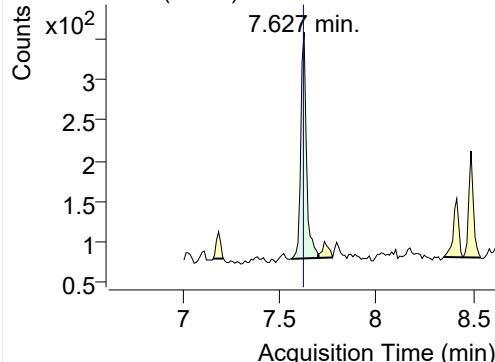


+ SIM (7.528-7.669 min, 14 scans) (**) 221208

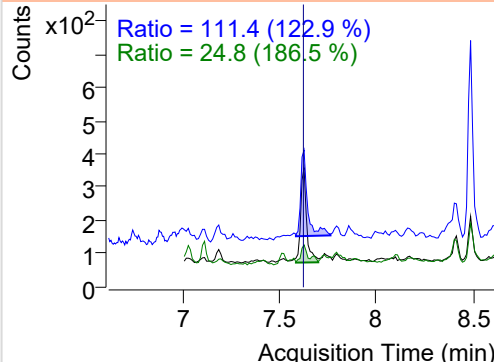


Fluorene

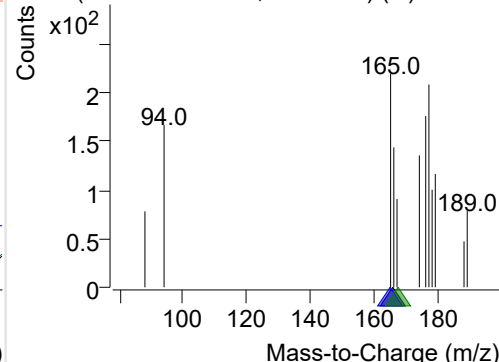
+ Selected Ion (166.0) 221208-PAHs-029.D



166.0, 165.0, 167.0

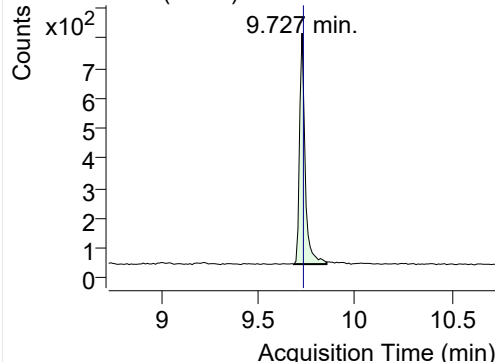


+ SIM (7.564-7.701 min, 14 scans) (**) 221208

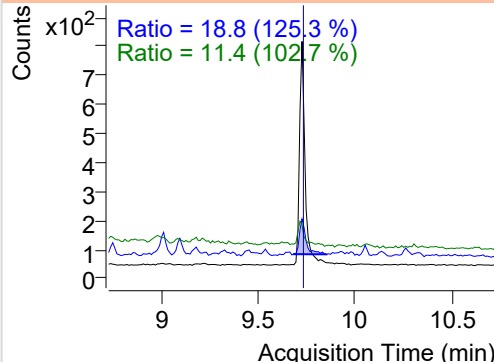


IS-D10-Phenanthrene

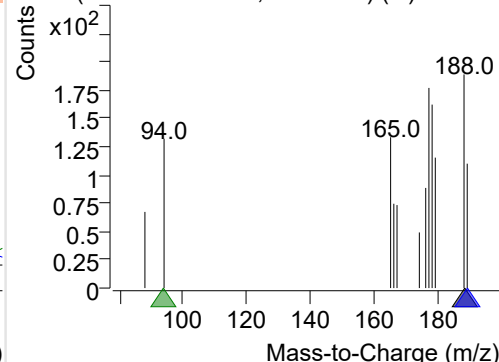
+ Selected Ion (188.0) 221208-PAHs-029.D



188.0, 189.0, 94.0

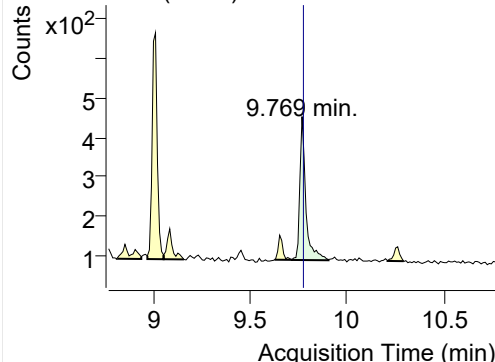


+ SIM (9.685-9.853 min, 17 scans) (**) 221208

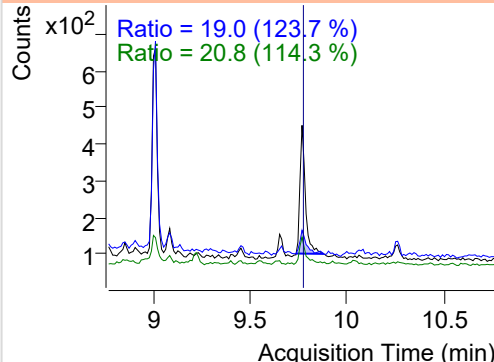


Phenanthrene

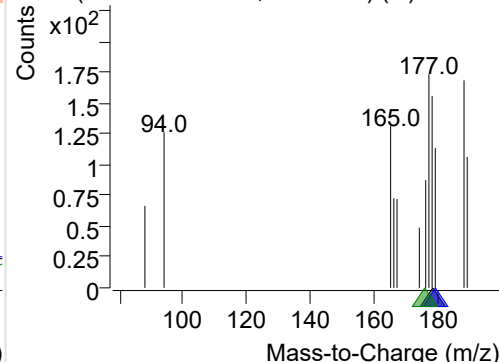
+ Selected Ion (178.0) 221208-PAHs-029.D



178.0, 179.0, 176.0

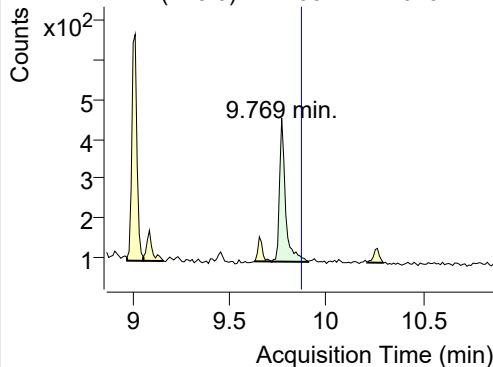


+ SIM (9.717-9.906 min, 19 scans) (**) 221208

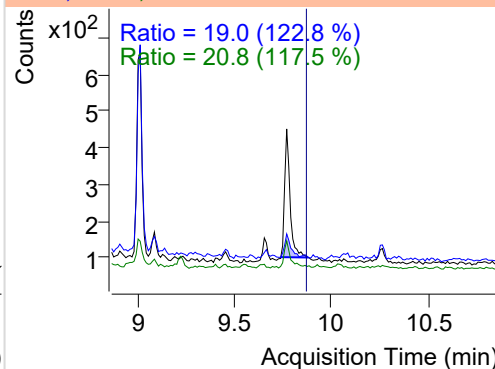


Anthracene

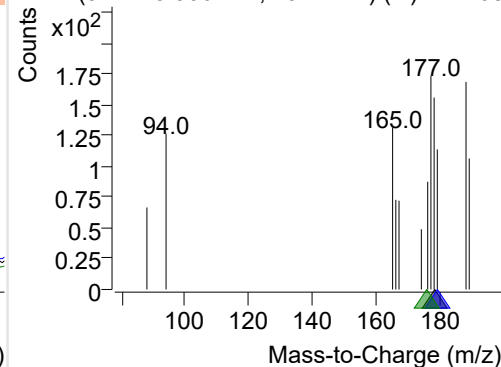
+ Selected Ion (178.0) 221208-PAHs-029.D



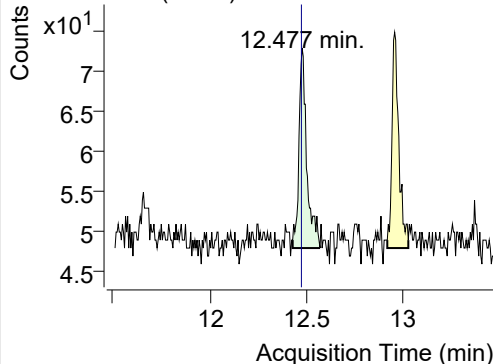
178.0, 179.0, 176.0



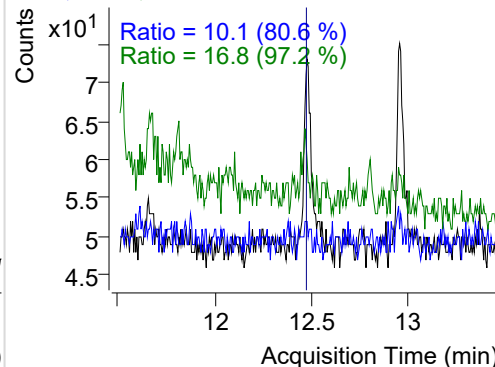
+ SIM (9.717-9.906 min, 19 scans) (**) 221208

**Fluoranthene**

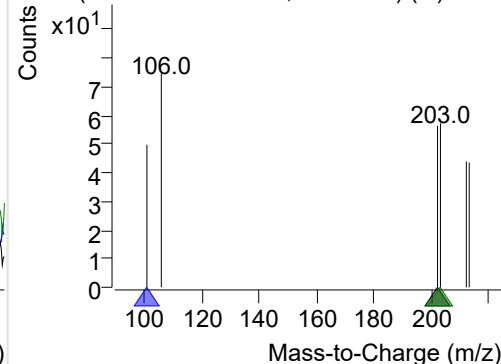
+ Selected Ion (202.0) 221208-PAHs-029.D



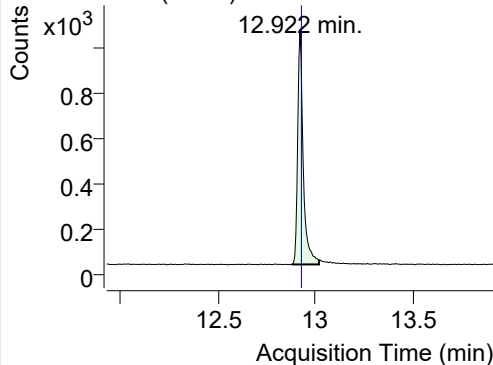
202.0, 101.0, 203.0



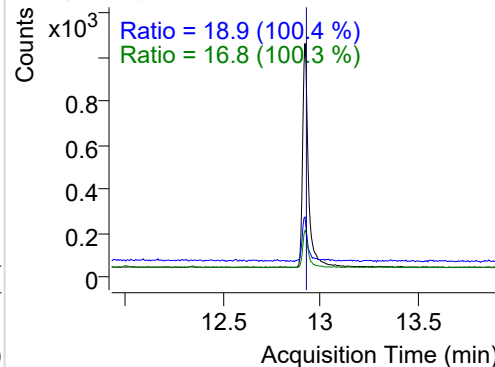
+ SIM (12.429-12.569 min, 26 scans) (**) 2212

**LSS-D10-Pyrene**

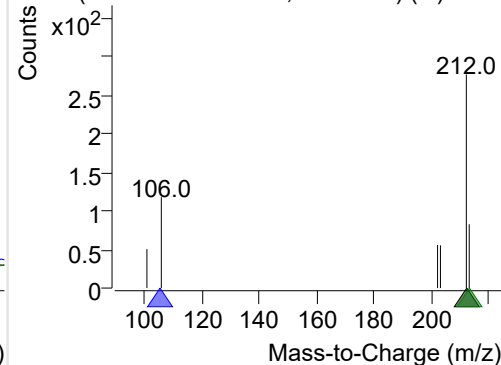
+ Selected Ion (212.0) 221208-PAHs-029.D



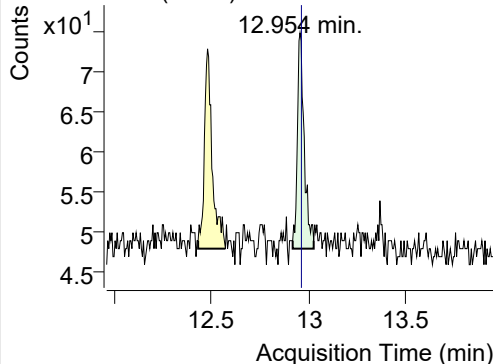
212.0, 106.0, 213.0



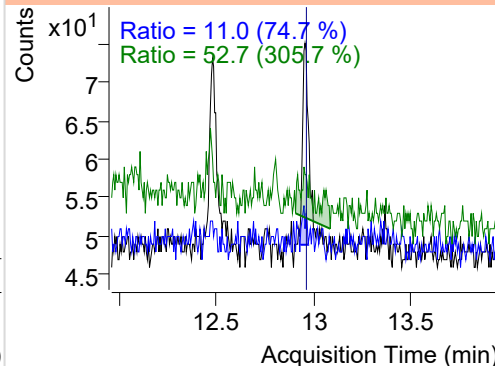
+ SIM (12.878-13.019 min, 27 scans) (**) 2212

**Pyrene**

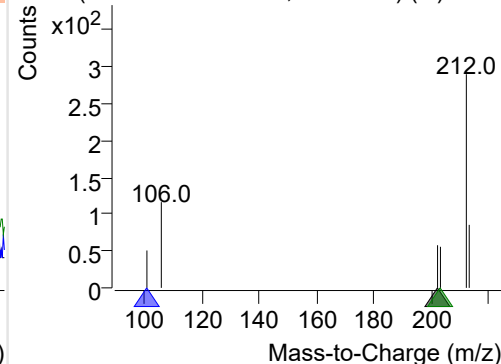
+ Selected Ion (202.0) 221208-PAHs-029.D



202.0, 101.0, 203.0



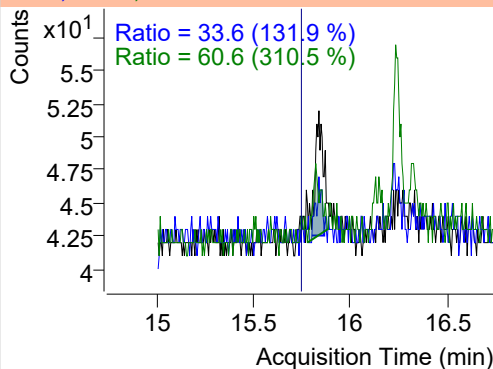
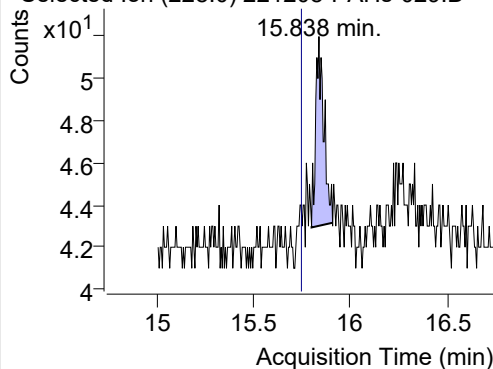
+ SIM (12.916-13.025 min, 21 scans) (**) 2212



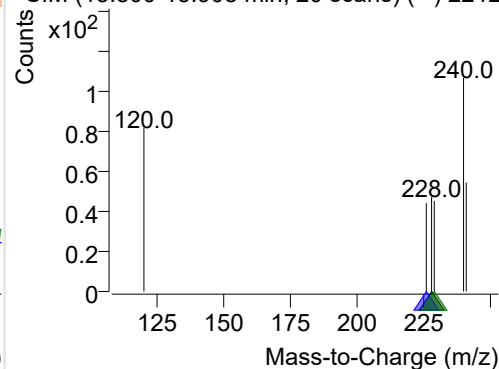
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-029.D

228.0, 226.0, 229.0

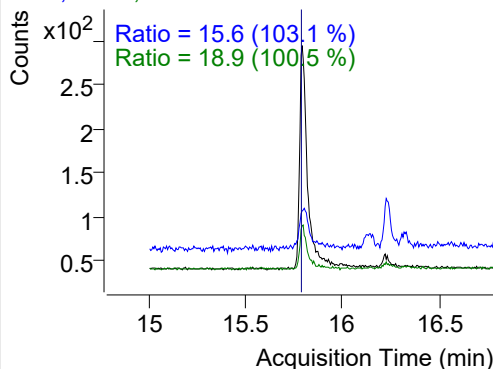
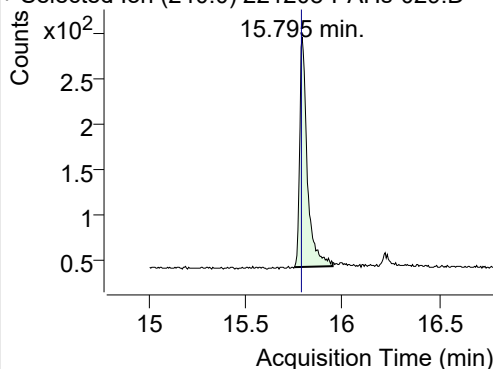


+ SIM (15.800-15.908 min, 20 scans) (**) 2212

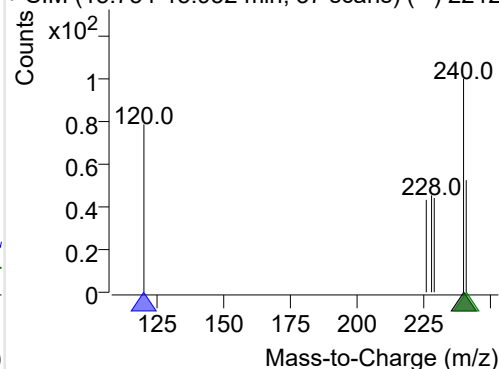
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-029.D

240.0, 120.0, 241.0

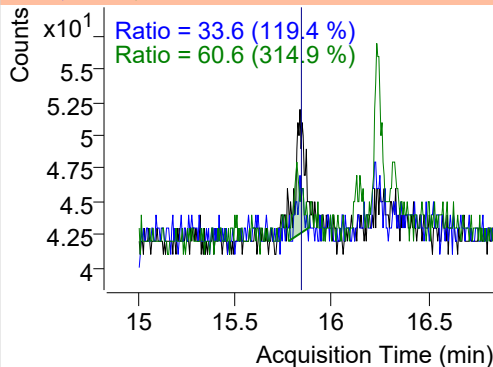
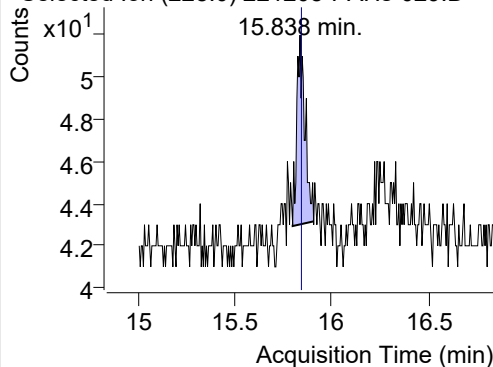


+ SIM (15.754-15.952 min, 37 scans) (**) 2212

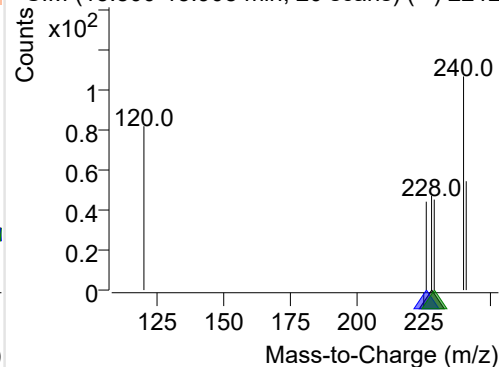
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-029.D

228.0, 226.0, 229.0

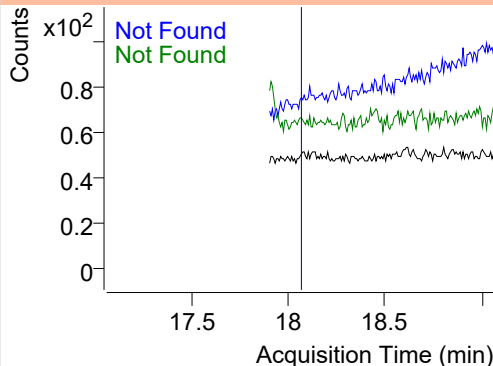
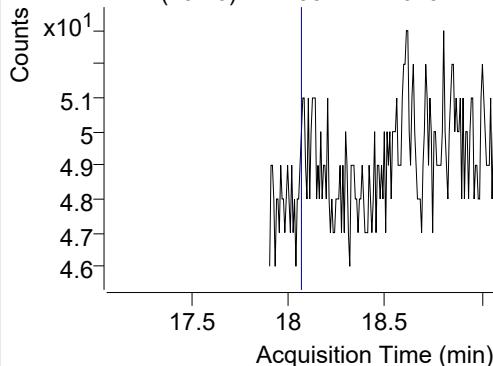


+ SIM (15.800-15.908 min, 20 scans) (**) 2212

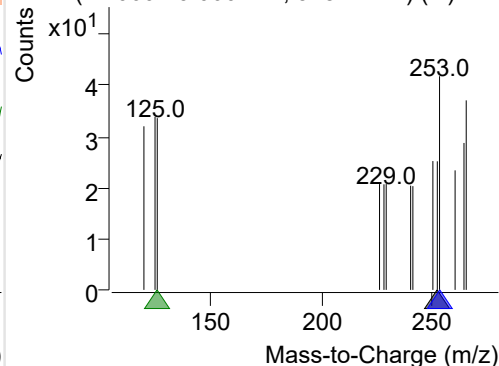
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-029.D

252.0, 253.0, 126.0



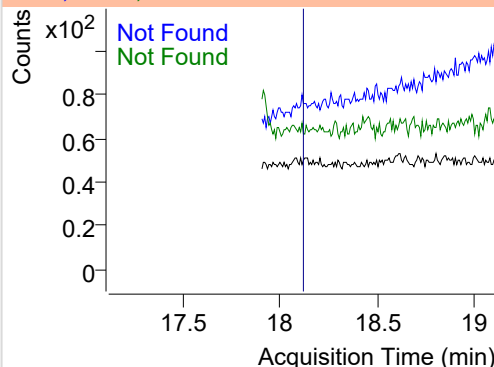
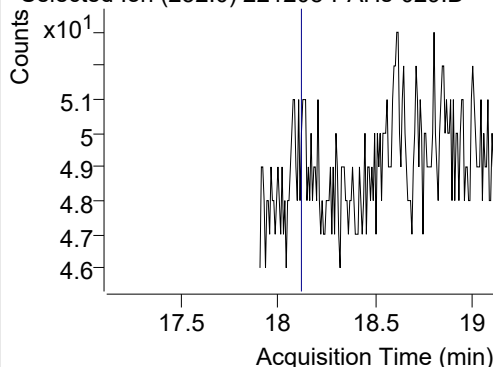
+ SIM (17.060-19.060 min, 318 scans) (**) 221



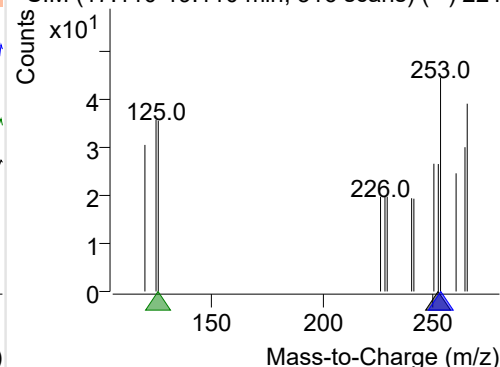
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-029.D

252.0, 253.0, 126.0

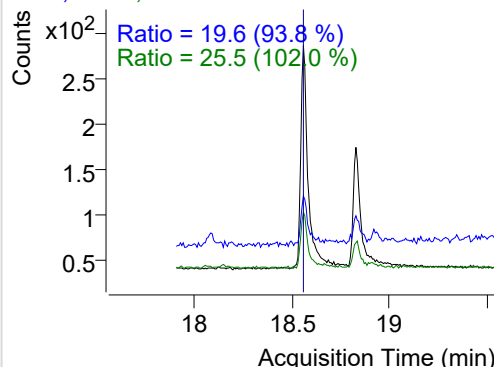
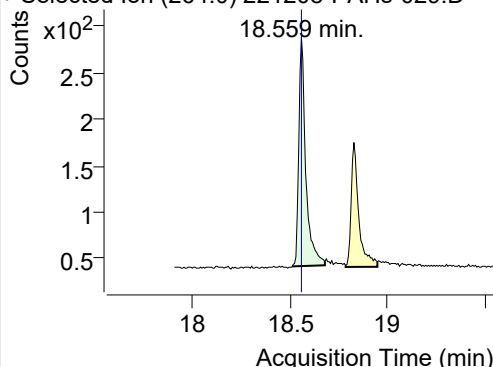


+ SIM (17.110-19.110 min, 316 scans) (**) 221

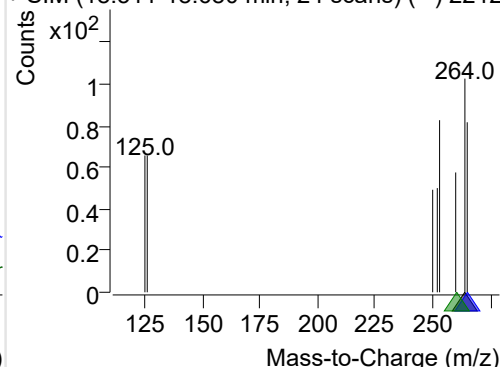
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-029.D

264.0, 265.0, 260.0

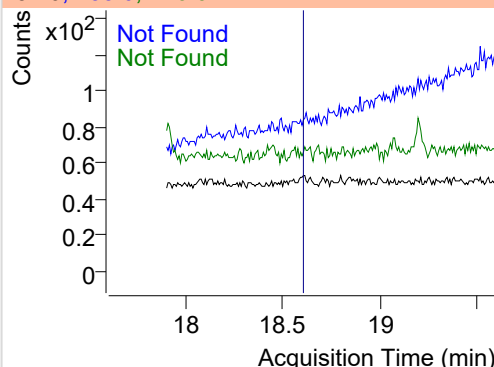
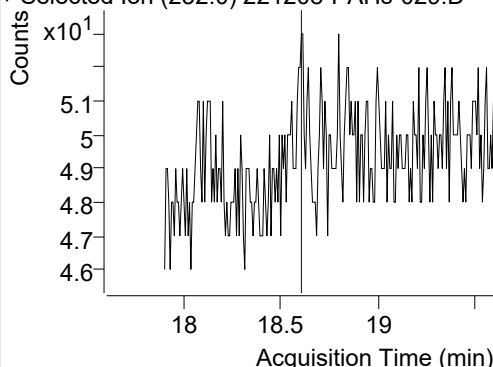


+ SIM (18.511-18.680 min, 24 scans) (**) 2212

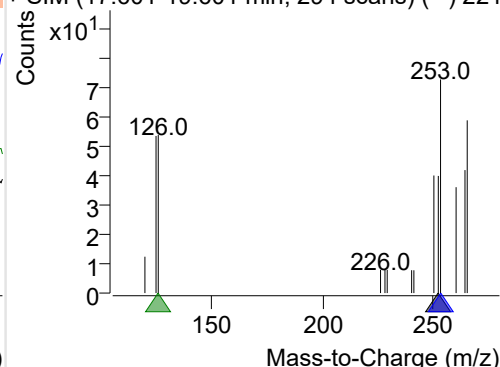
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-029.D

252.0, 253.0, 126.0

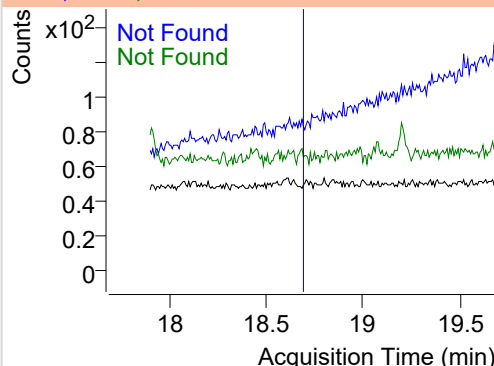
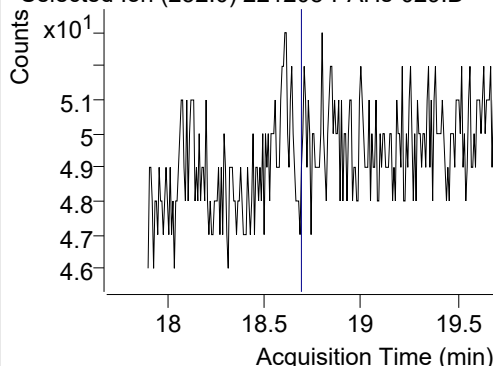


+ SIM (17.601-19.601 min, 294 scans) (**) 221

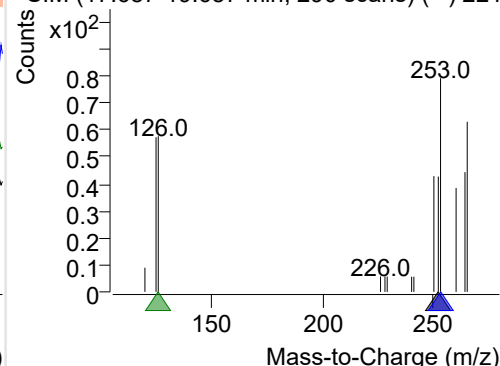
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-029.D

252.0, 253.0, 126.0

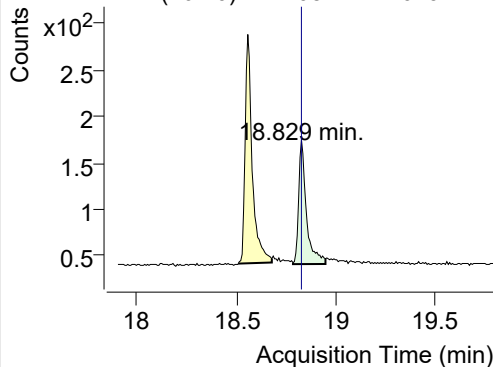


+ SIM (17.687-19.687 min, 290 scans) (**) 221

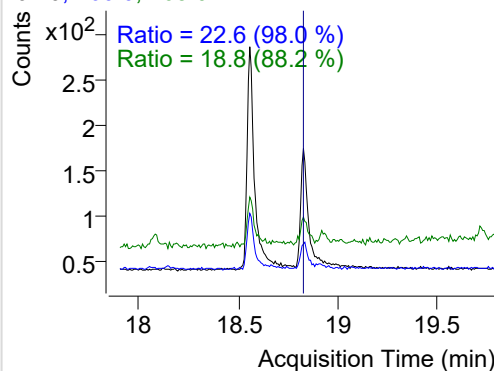


IS-D12-Perylene

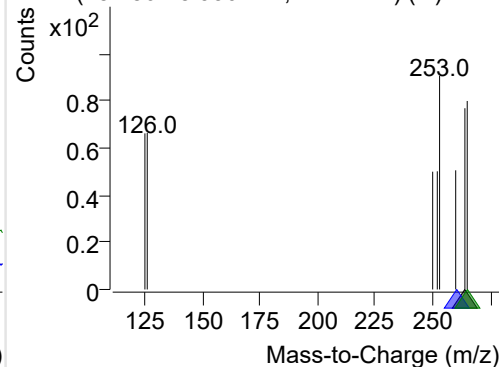
+ Selected Ion (264.0) 221208-PAHs-029.D



264.0, 260.0, 265.0

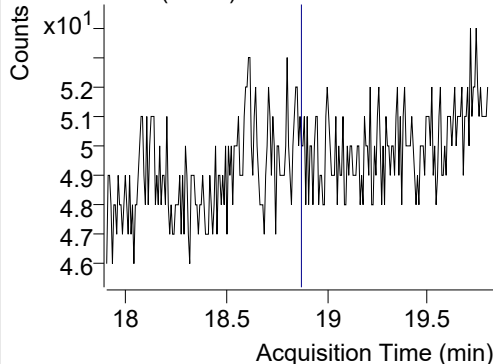


+ SIM (18.786-18.950 min, 24 scans) (**) 2212

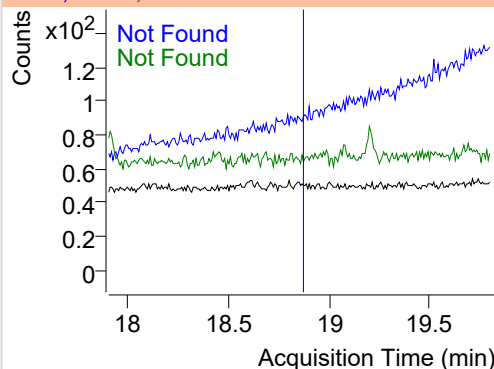


Perylene

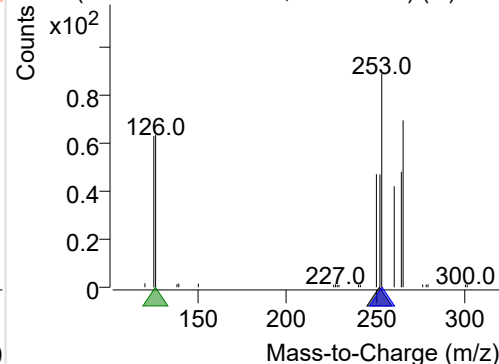
+ Selected Ion (252.0) 221208-PAHs-029.D



252.0, 253.0, 126.0

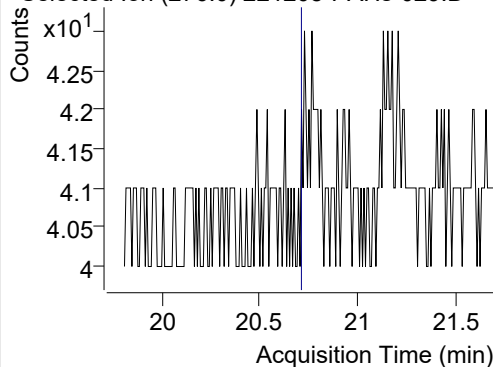


+ SIM (17.865-19.865 min, 282 scans) (**) 221

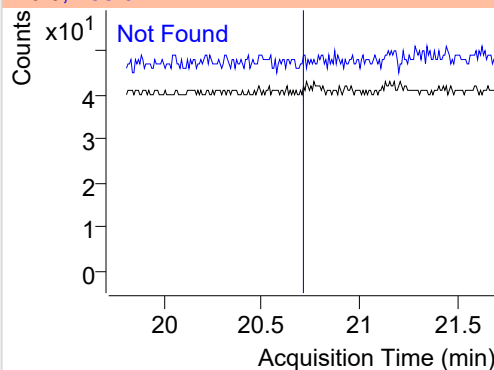


Indeno(1,2,3-c,d)pyrene

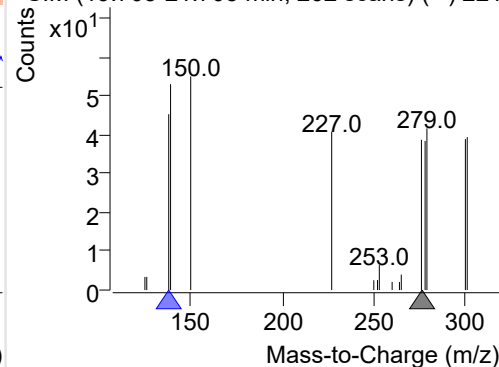
+ Selected Ion (276.0) 221208-PAHs-029.D



276.0, 138.0

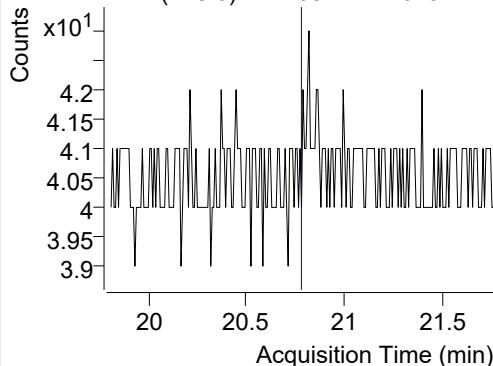


+ SIM (19.705-21.705 min, 262 scans) (**) 221

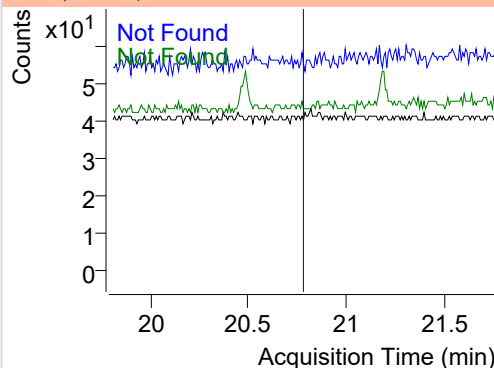


Dibenz(a,h)anthracene

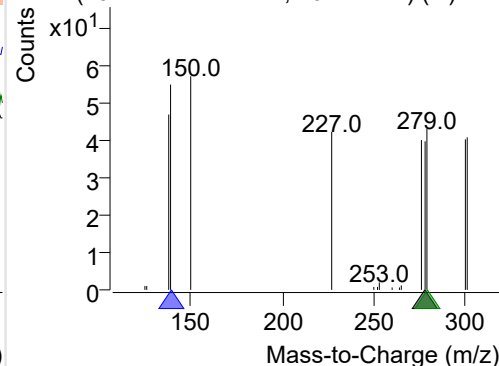
+ Selected Ion (278.0) 221208-PAHs-029.D



278.0, 139.0, 279.0



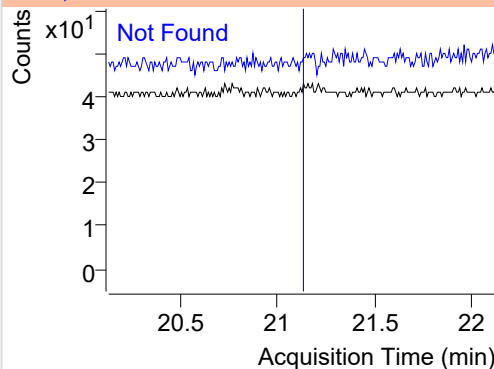
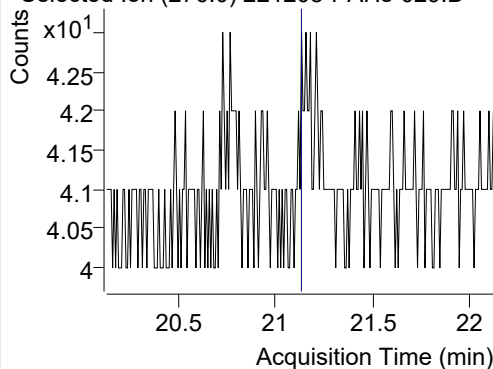
+ SIM (19.774-21.774 min, 262 scans) (**) 221



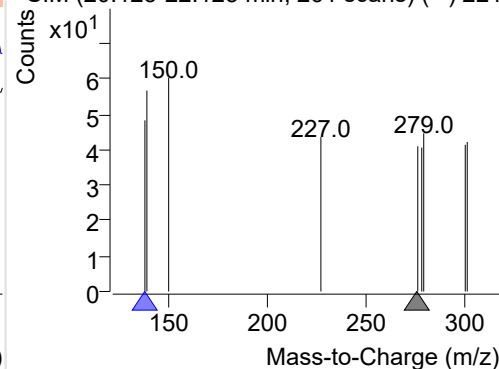
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221208-PAHs-029.D

276.0, 138.0

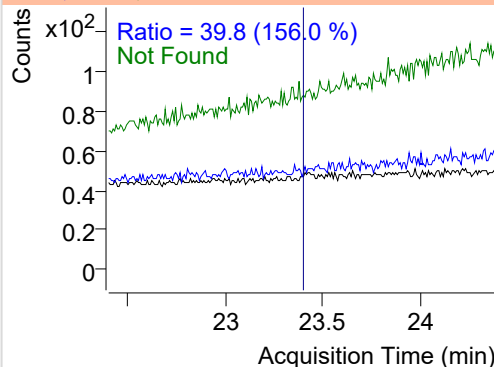
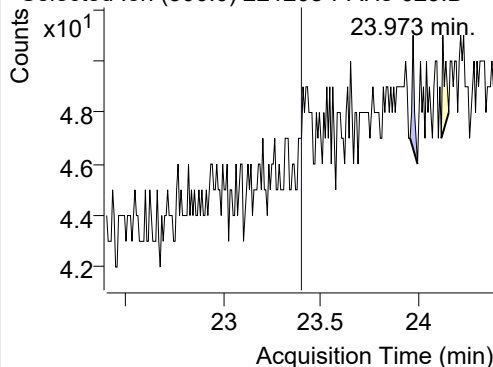


+ SIM (20.125-22.125 min, 261 scans) (**) 221

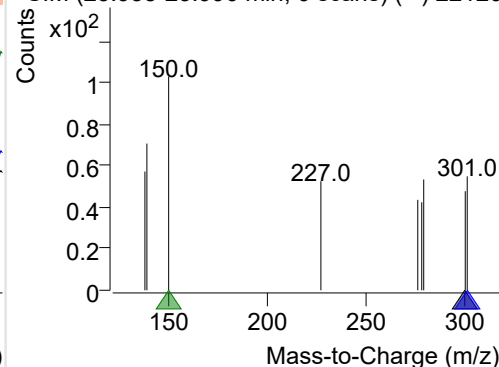
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-029.D

300.0, 301.0, 150.0



+ SIM (23.958-23.996 min, 6 scans) (**) 22120



Quantitative Analysis Sample Based Report

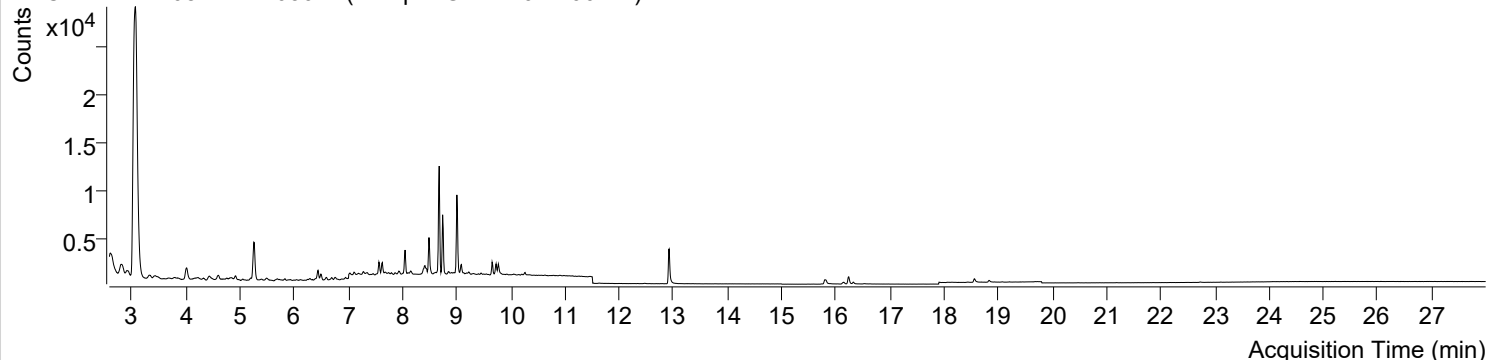


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 8:38:44	Data File	221208-PAHs-030.D
Type	Sample	Name	Sample-Gas-1107-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

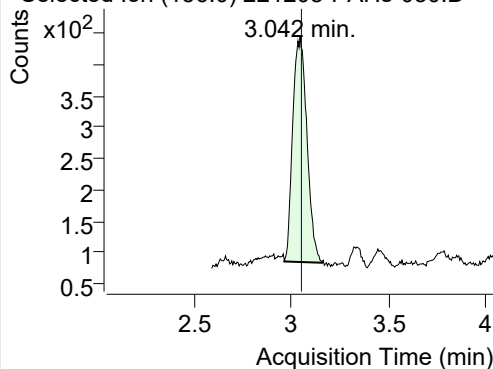
+ TIC SIM 221208-PAHs-030.D (Sample-Gas-1107-100DIL)



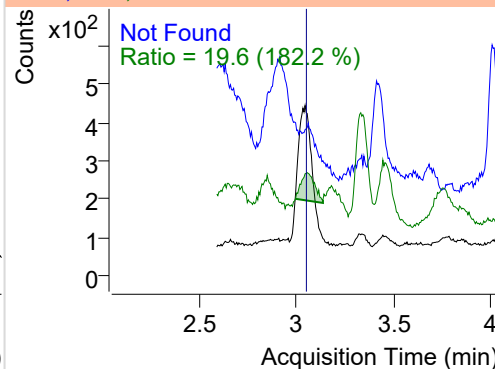
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	1818	358.79	ND ng/ml	19.6
Naphthalene	3.069	128.0	117302	22509.83	ND ng/ml	12.7
Acenaphthylene	6.487	152.0	268	132.42	ND ng/ml	59.3
IS-D10-Acenaphthene	6.439	164.0	1080	479.92	ND ng/ml	87.3
Acenaphthene	6.499	154.0	295	136.86	ND ng/ml	100.2
LSS-D10-Fluorene	7.564	176.0	981	541.98	ND ng/ml	95.3
Fluorene	7.627	166.0	1161	575.98	ND ng/ml	99.4
IS-D10-Phenanthrene	9.727	188.0	1649	873.73	ND ng/ml	27.1
Phenanthrene	9.770	178.0	1358	661.43	ND ng/ml	20.4
Anthracene	9.770	178.0	1358	661.43	ND ng/ml	20.4
Fluoranthene	12.478	202.0	56	25.15	ND ng/ml	31.5
LSS-D10-Pyrene	12.922	212.0	5429	2678.93	ND ng/ml	18.5
Pyrene	12.954	202.0	84	37.86	ND ng/ml	17.7
Benz(a)anthracene	15.838	228.0	34	11.59	ND ng/ml	43.8
IS-D12-Chrysene	15.795	240.0	863	305.44	ND ng/ml	19.0
Chrysene	15.838	228.0	34	11.59	ND ng/ml	43.8
Benzo(b)fluoranthene	18.082	252.0	10	4.78	ND ng/ml	
Benzo(k)fluoranthene	18.082	252.0	10	4.78	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.559	264.0	671	254.90	ND ng/ml	23.6
Benzo(e)pyrene	18.680	252.0	3	4.00	ND ng/ml	
Benzo(a)pyrene	18.680	252.0	3	4.00	ND ng/ml	
IS-D12-Perylene	18.829	264.0	330	134.76	ND ng/ml	28.3
Perylene	18.680	252.0	3	4.00	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	21.141	276.0	4	3.03	ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene	21.141	276.0	4	3.03	ND ng/ml	
Coronene	23.416	300.0	13	3.76	ND ng/ml	

IS-D8-Naphthalene

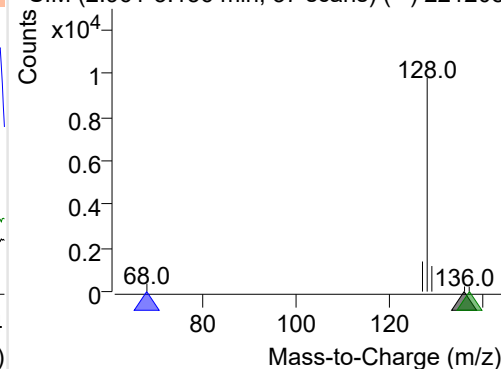
+ Selected Ion (136.0) 221208-PAHs-030.D



136.0, 68.0, 137.0

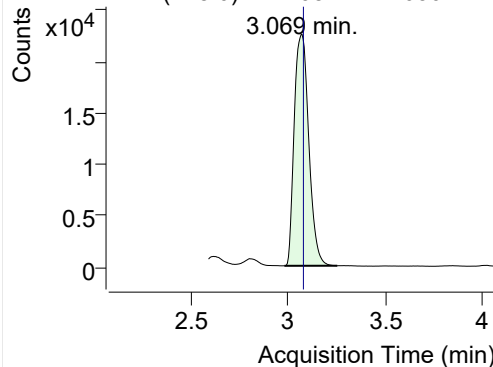


+ SIM (2.961-3.156 min, 37 scans) (**) 221208

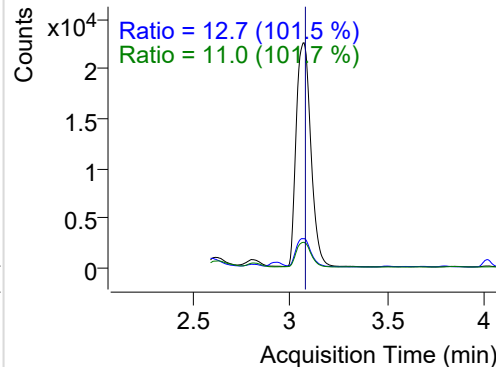


Naphthalene

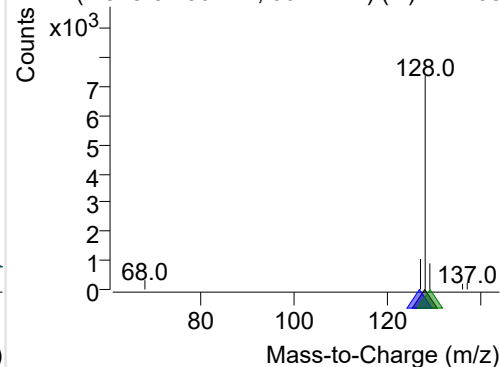
+ Selected Ion (128.0) 221208-PAHs-030.D



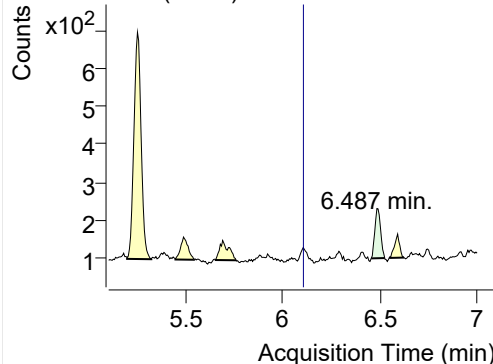
128.0, 127.0, 129.0



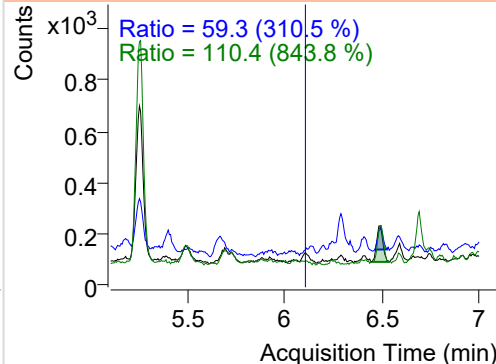
+ SIM (2.978-3.250 min, 50 scans) (**) 221208

**Acenaphthylene**

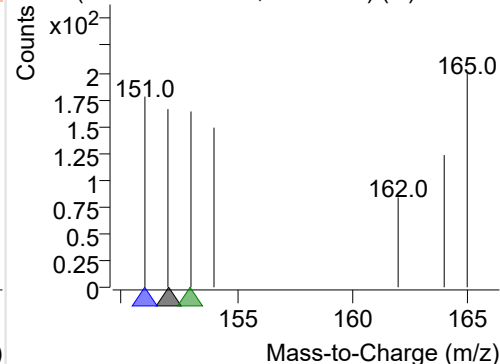
+ Selected Ion (152.0) 221208-PAHs-030.D



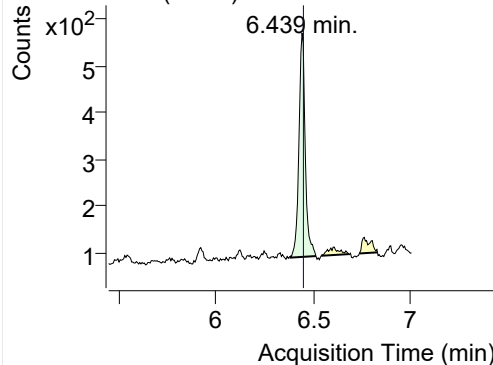
152.0, 151.0, 153.0



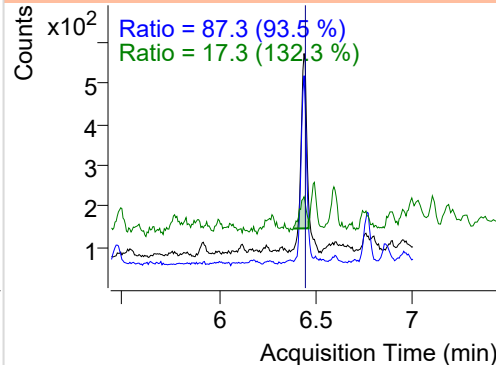
+ SIM (6.457-6.527 min, 11 scans) (**) 221208

**IS-D10-Acenaphthene**

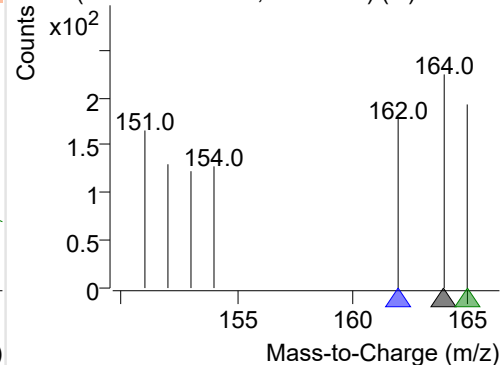
+ Selected Ion (164.0) 221208-PAHs-030.D



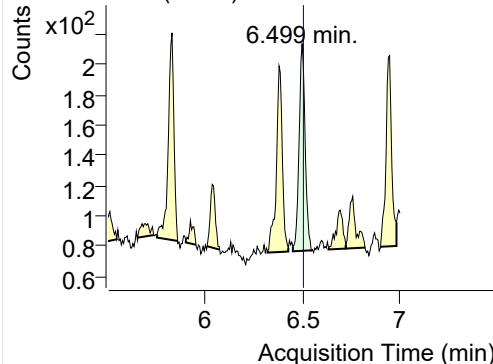
164.0, 162.0, 165.0



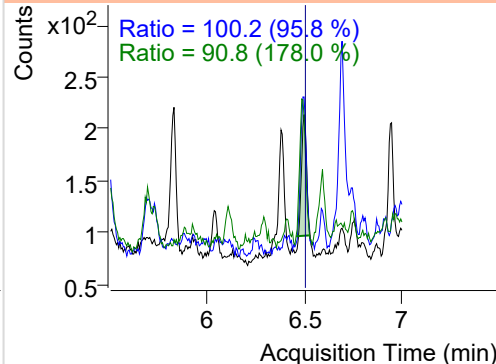
+ SIM (6.380-6.511 min, 23 scans) (**) 221208

**Acenaphthene**

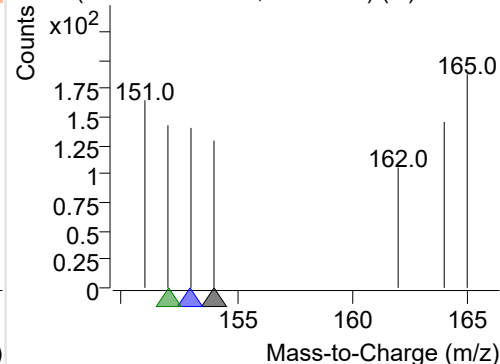
+ Selected Ion (154.0) 221208-PAHs-030.D



154.0, 153.0, 152.0

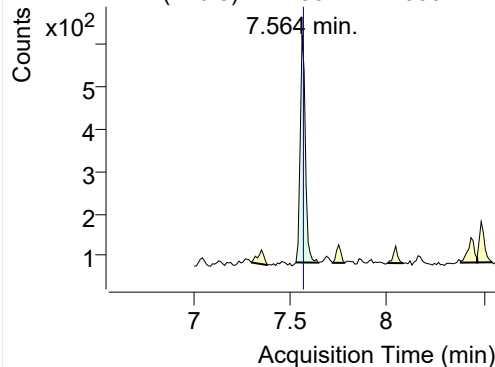


+ SIM (6.451-6.546 min, 16 scans) (**) 221208

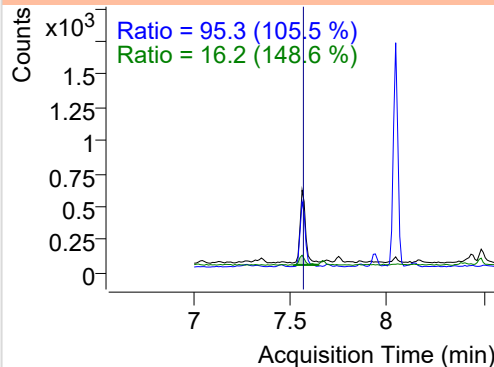


LSS-D10-Fluorene

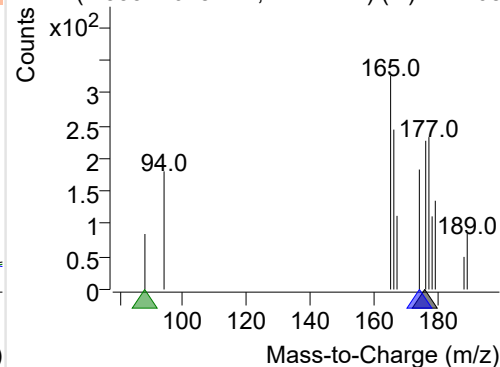
+ Selected Ion (176.0) 221208-PAHs-030.D



176.0, 174.0, 88.0

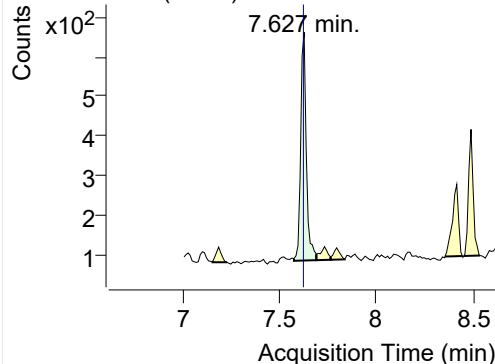


+ SIM (7.533-7.648 min, 11 scans) (**) 221208

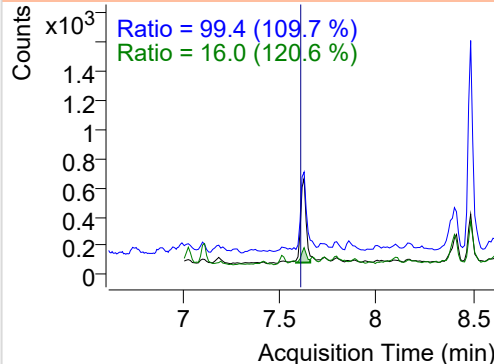


Fluorene

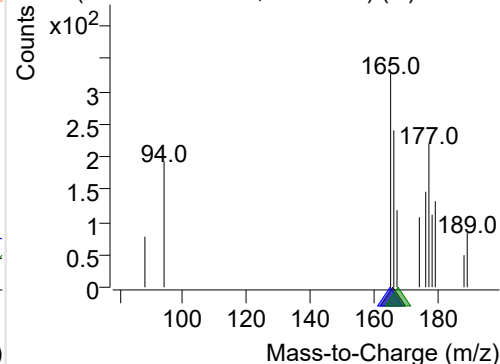
+ Selected Ion (166.0) 221208-PAHs-030.D



166.0, 165.0, 167.0

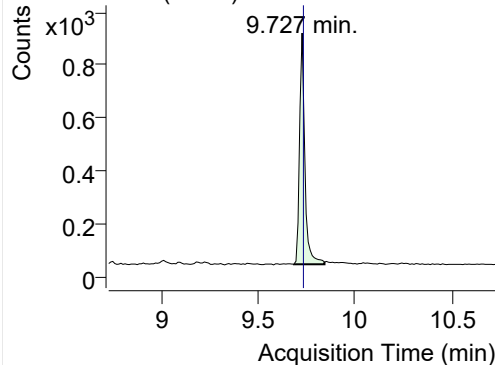


+ SIM (7.575-7.690 min, 12 scans) (**) 221208

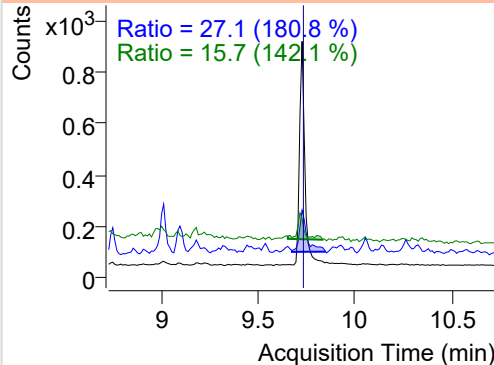


IS-D10-Phenanthrene

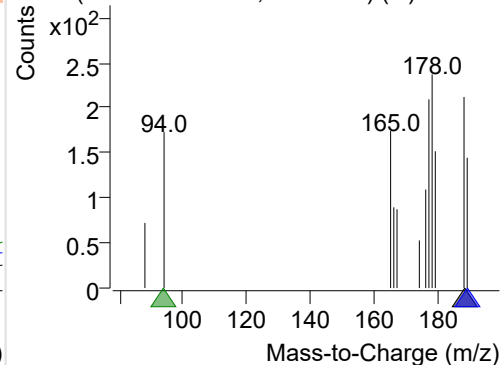
+ Selected Ion (188.0) 221208-PAHs-030.D



188.0, 189.0, 94.0

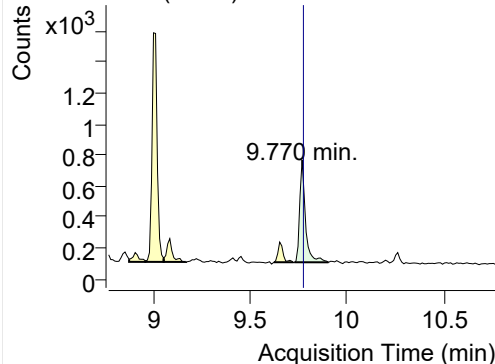


+ SIM (9.685-9.843 min, 16 scans) (**) 221208

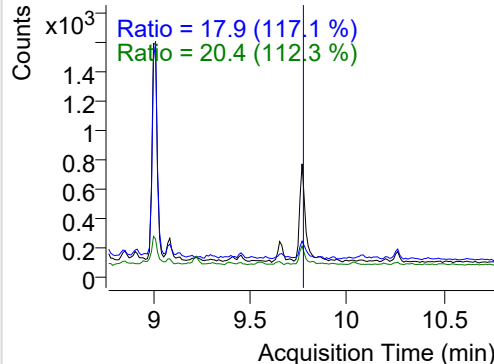


Phenanthrene

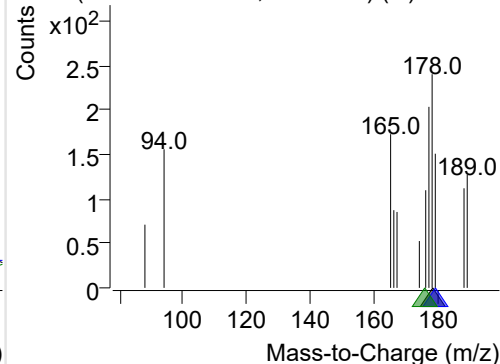
+ Selected Ion (178.0) 221208-PAHs-030.D



178.0, 179.0, 176.0

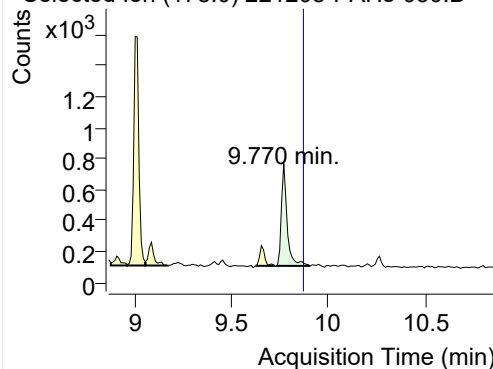


+ SIM (9.731-9.906 min, 16 scans) (**) 221208

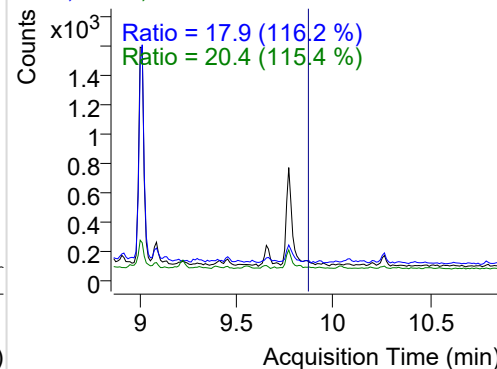


Anthracene

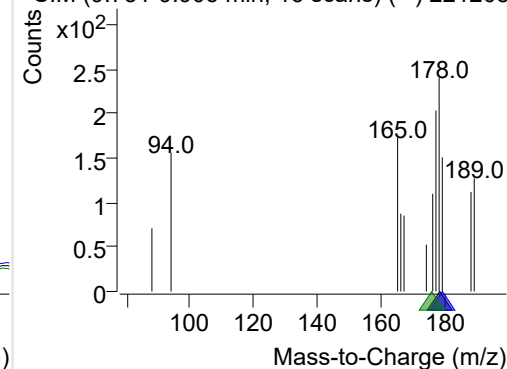
+ Selected Ion (178.0) 221208-PAHs-030.D



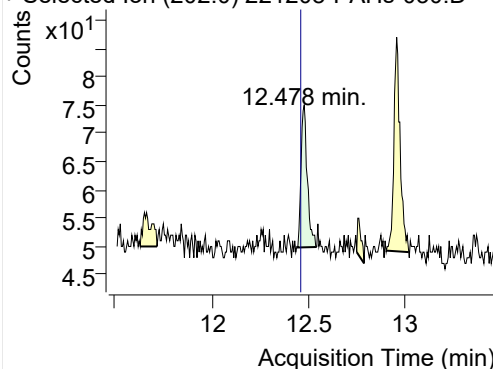
178.0, 179.0, 176.0



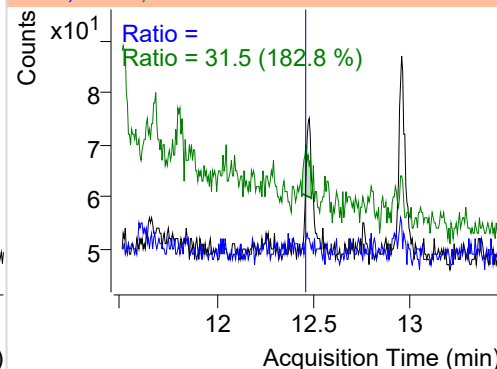
+ SIM (9.731-9.906 min, 16 scans) (**) 221208

**Fluoranthene**

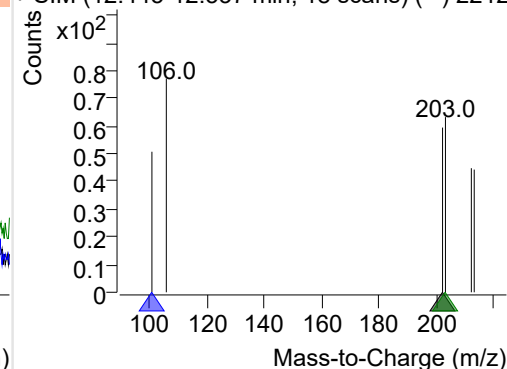
+ Selected Ion (202.0) 221208-PAHs-030.D



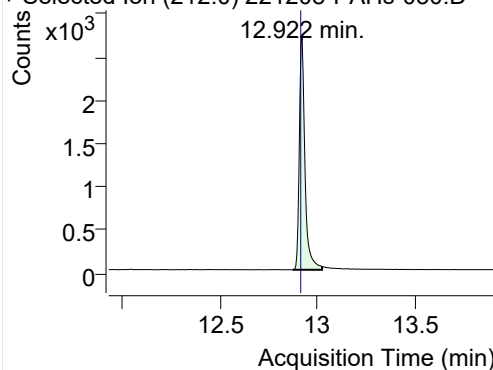
202.0, 101.0, 203.0



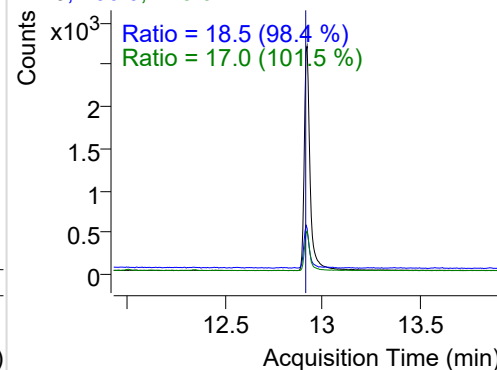
+ SIM (12.445-12.537 min, 18 scans) (**) 2212

**LSS-D10-Pyrene**

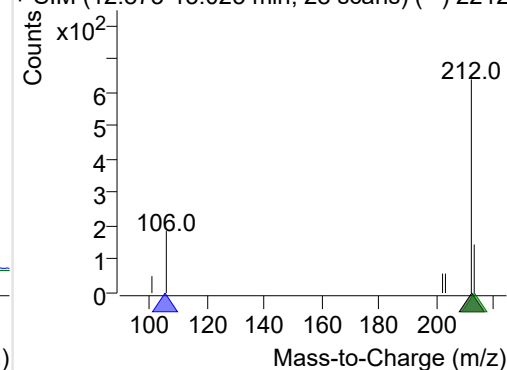
+ Selected Ion (212.0) 221208-PAHs-030.D



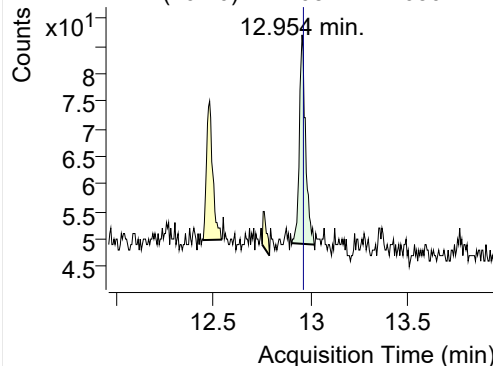
212.0, 106.0, 213.0



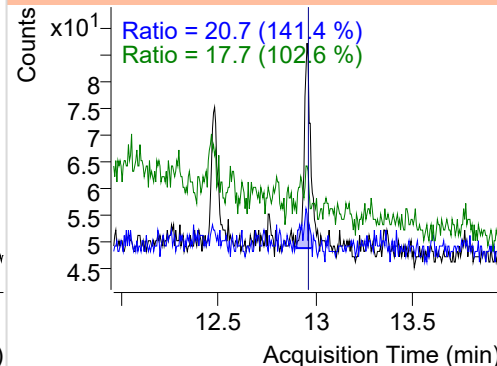
+ SIM (12.873-13.025 min, 28 scans) (**) 2212

**Pyrene**

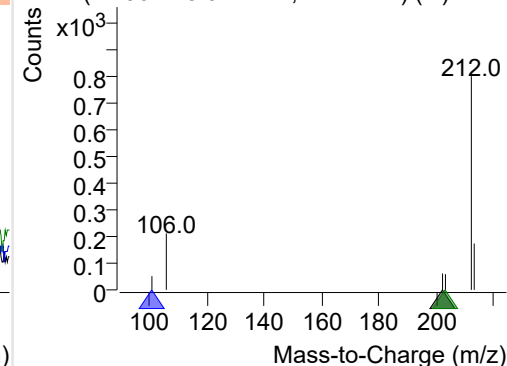
+ Selected Ion (202.0) 221208-PAHs-030.D



202.0, 101.0, 203.0



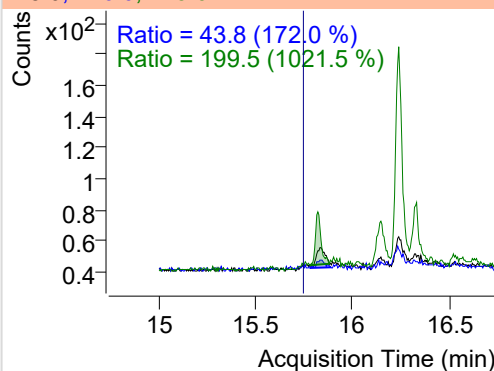
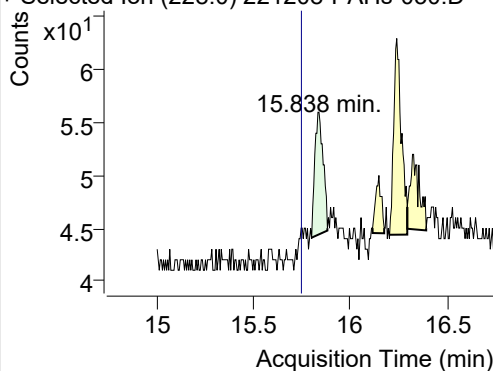
+ SIM (12.902-13.017 min, 21 scans) (**) 2212



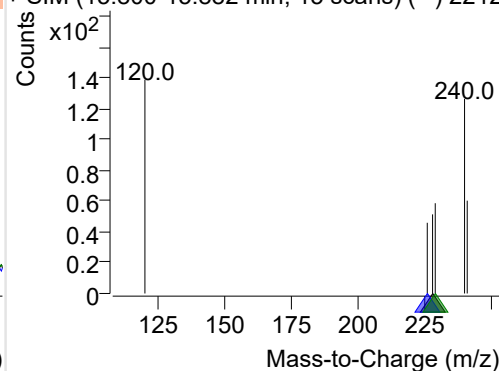
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-030.D

228.0, 226.0, 229.0

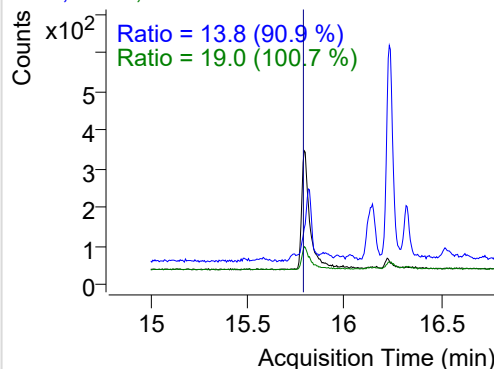
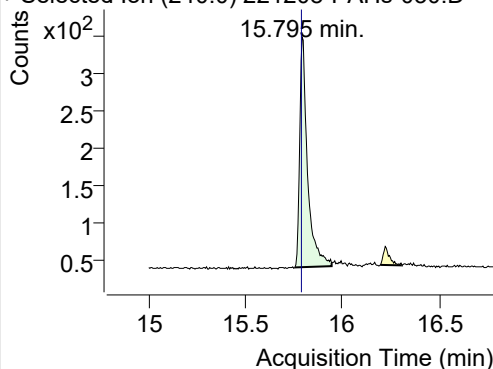


+ SIM (15.800-15.882 min, 15 scans) (**) 2212

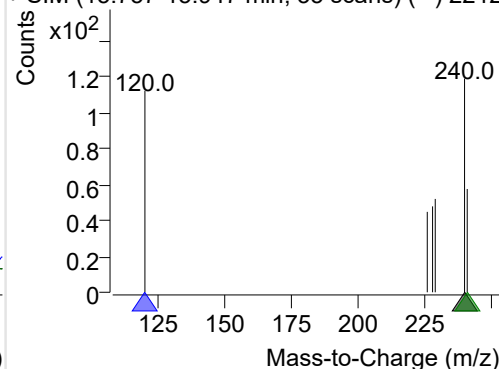
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-030.D

240.0, 120.0, 241.0

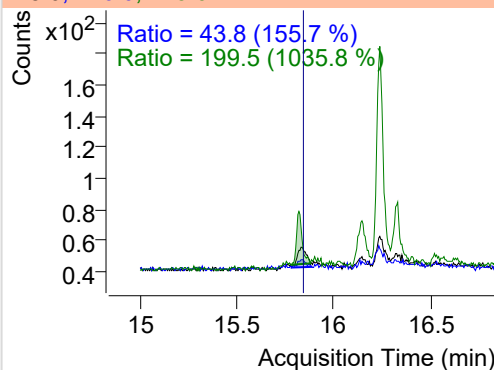
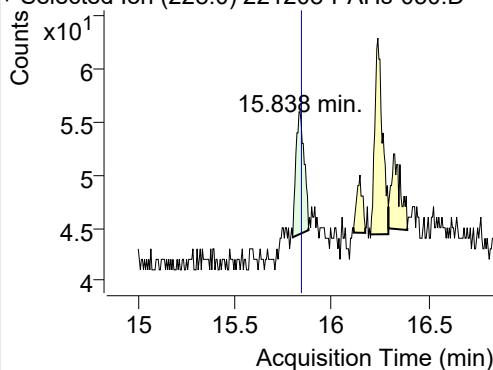


+ SIM (15.757-15.947 min, 35 scans) (**) 2212

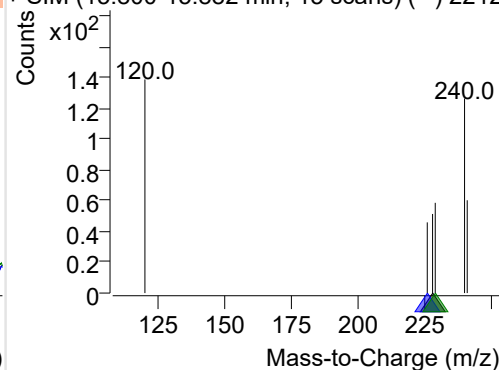
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-030.D

228.0, 226.0, 229.0

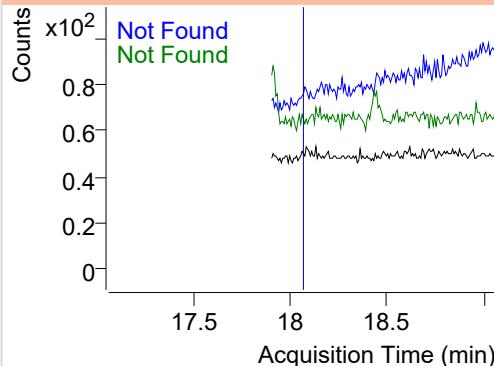
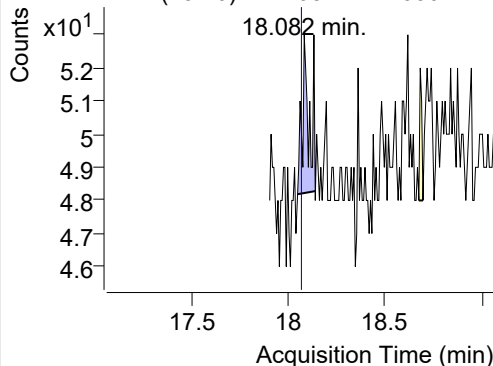


+ SIM (15.800-15.882 min, 15 scans) (**) 2212

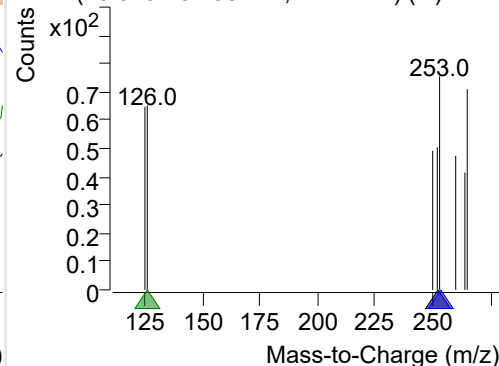
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-030.D

252.0, 253.0, 126.0



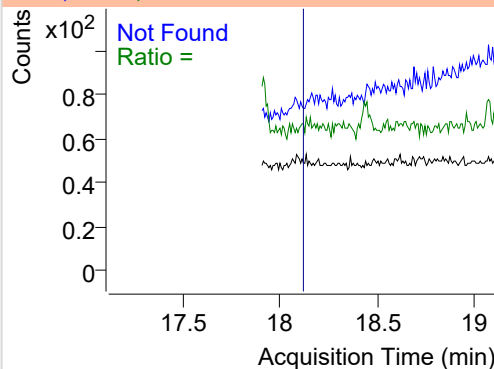
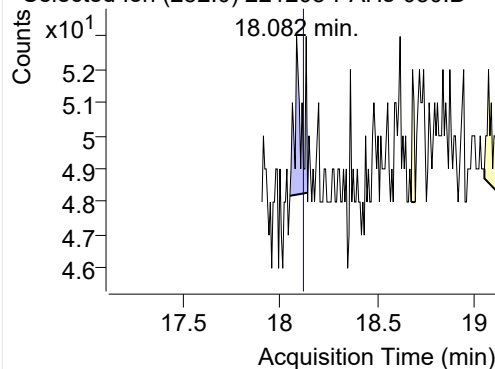
+ SIM (18.048-18.138 min, 12 scans) (**) 2212



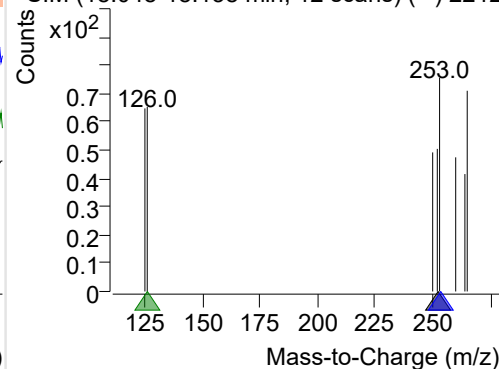
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-030.D

252.0, 253.0, 126.0

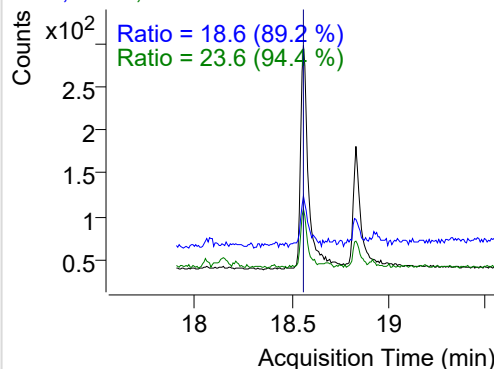
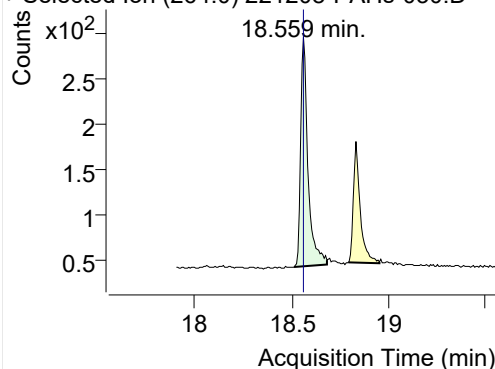


+ SIM (18.048-18.138 min, 12 scans) (**) 2212

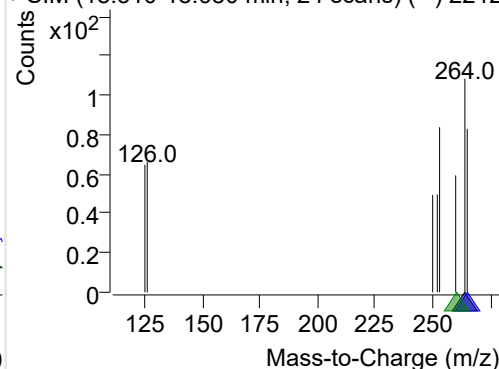
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-030.D

264.0, 265.0, 260.0

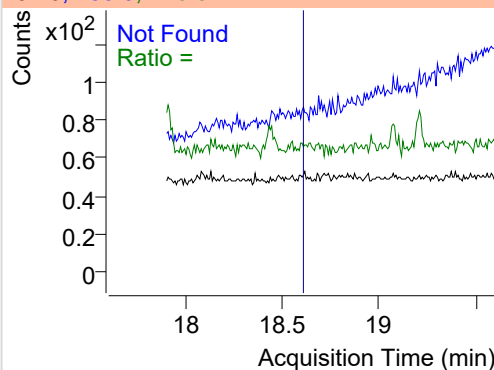
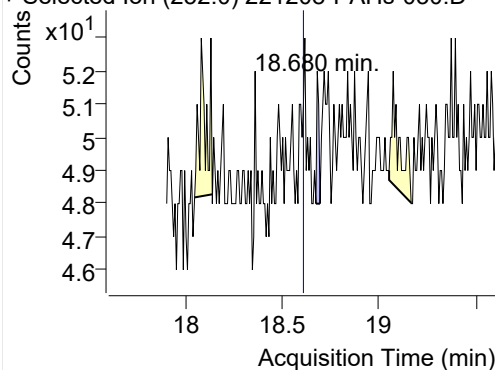


+ SIM (18.510-18.680 min, 24 scans) (**) 2212

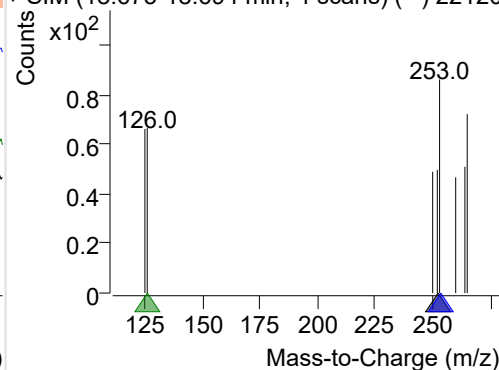
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-030.D

252.0, 253.0, 126.0

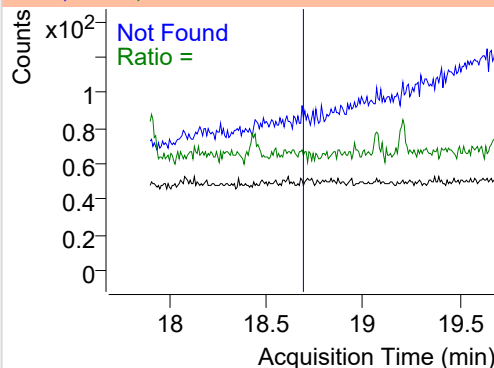
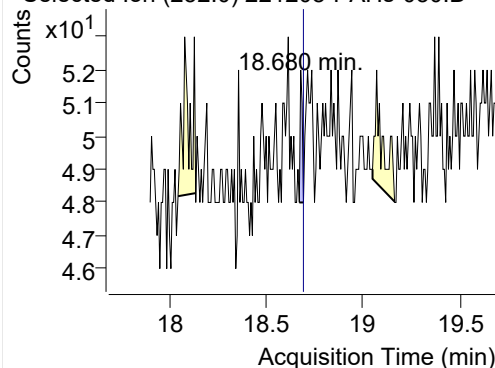


+ SIM (18.673-18.694 min, 4 scans) (**) 22120

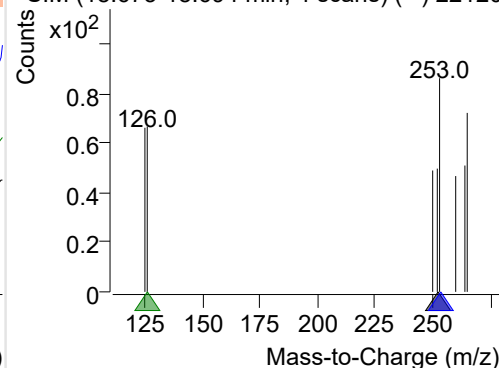
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-030.D

252.0, 253.0, 126.0



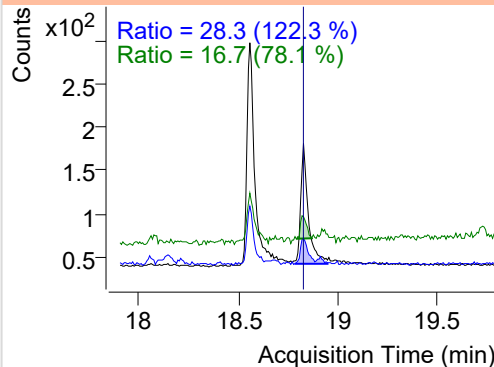
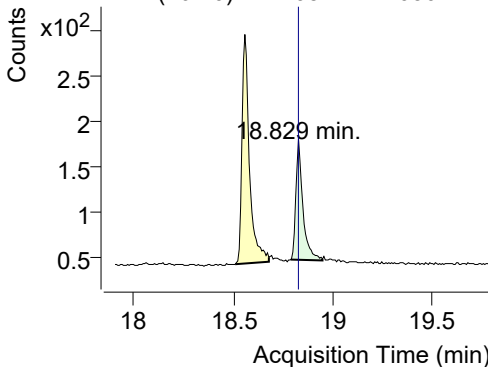
+ SIM (18.673-18.694 min, 4 scans) (**) 22120



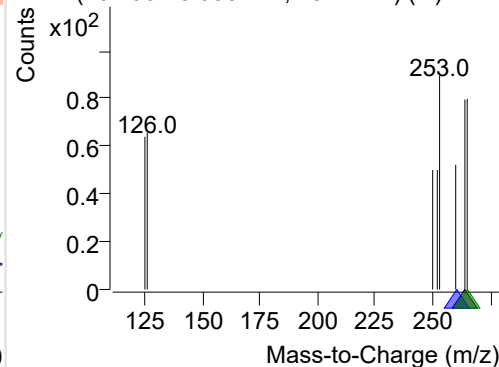
IS-D12-Perylene

+ Selected Ion (264.0) 221208-PAHs-030.D

264.0, 260.0, 265.0



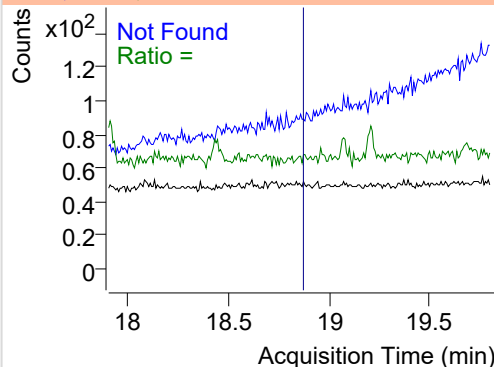
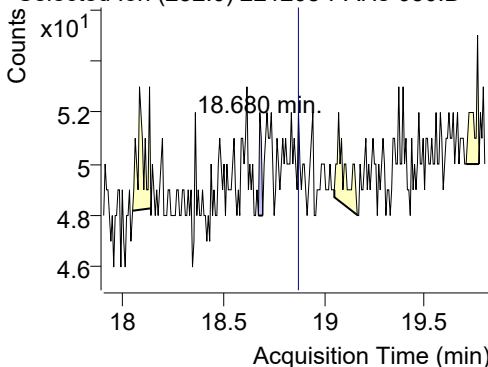
+ SIM (18.790-18.950 min, 23 scans) (**) 2212



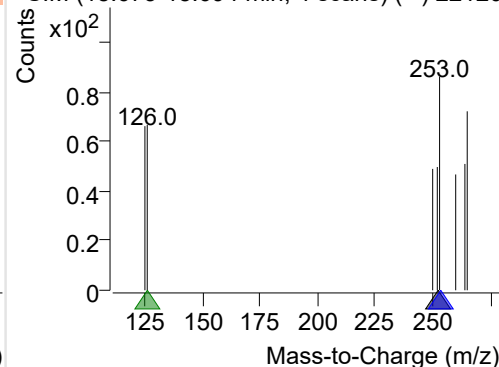
Perylene

+ Selected Ion (252.0) 221208-PAHs-030.D

252.0, 253.0, 126.0



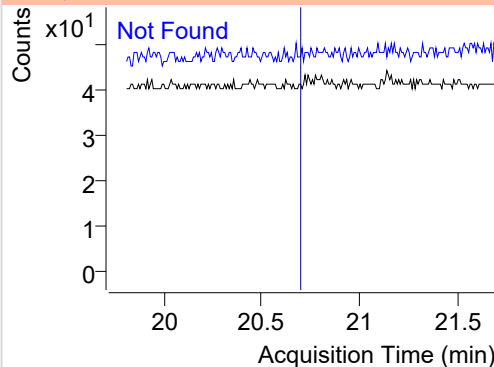
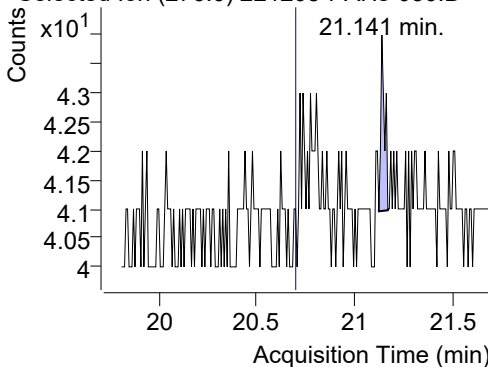
+ SIM (18.673-18.694 min, 4 scans) (**) 22120



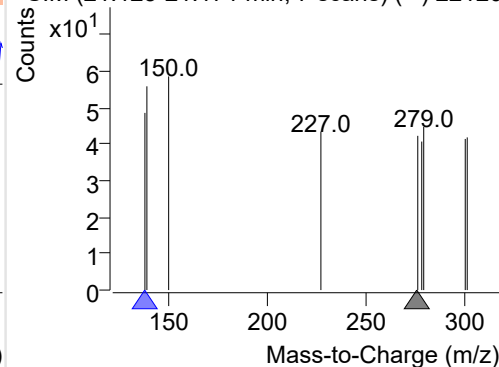
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 221208-PAHs-030.D

276.0, 138.0



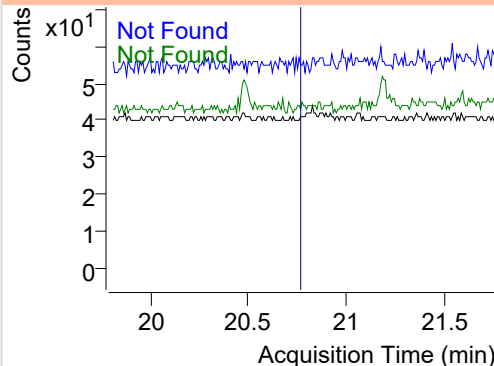
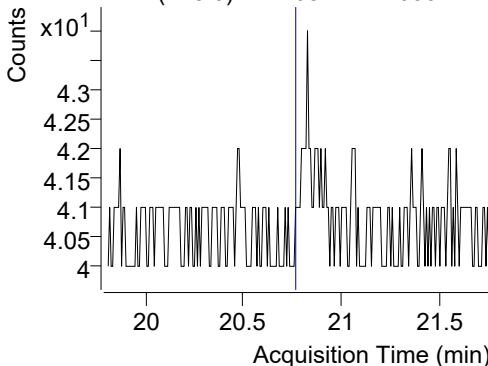
+ SIM (21.125-21.171 min, 7 scans) (**) 22120



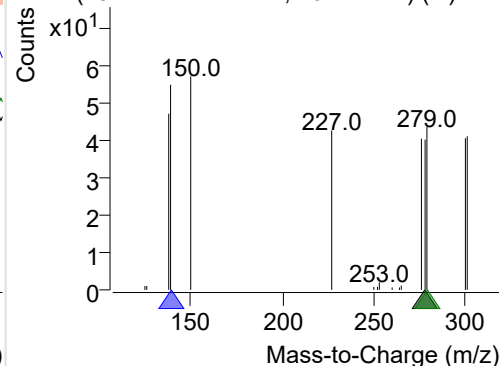
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 221208-PAHs-030.D

278.0, 139.0, 279.0

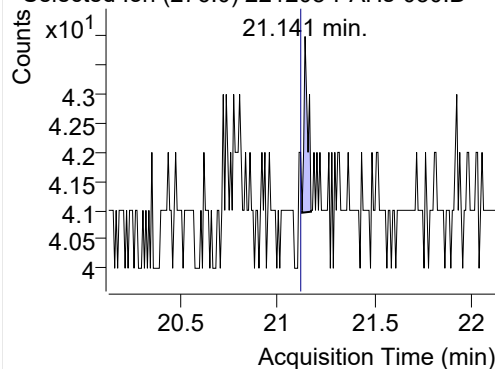


+ SIM (19.774-21.774 min, 262 scans) (**) 221

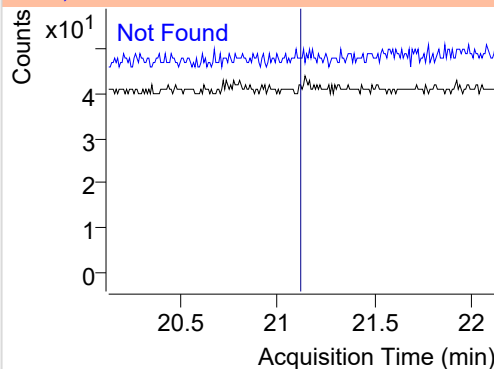


Benzo(g,h,i)perylene

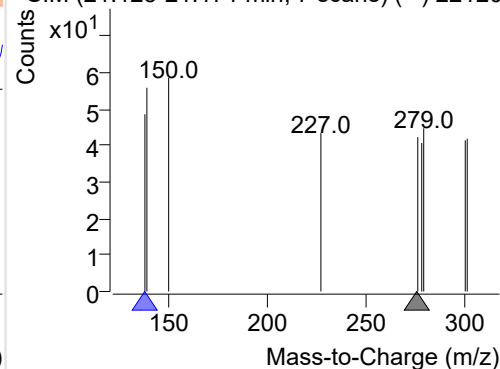
+ Selected Ion (276.0) 221208-PAHs-030.D



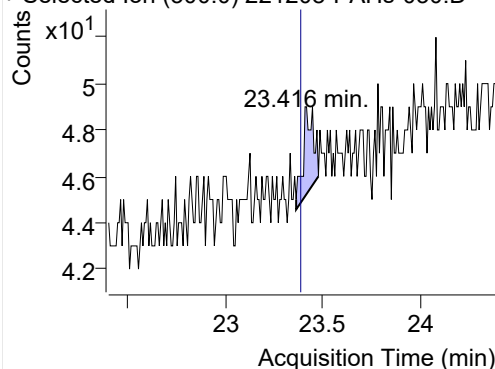
276.0, 138.0



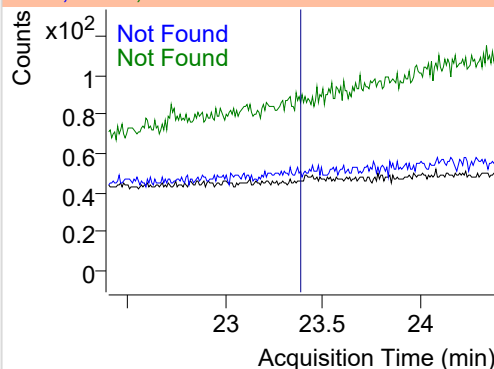
+ SIM (21.125-21.171 min, 7 scans) (**) 22120

**Coronene**

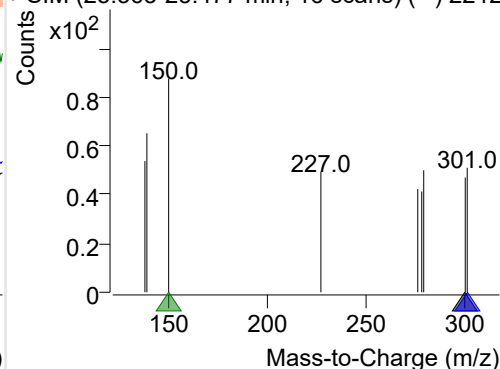
+ Selected Ion (300.0) 221208-PAHs-030.D



300.0, 301.0, 150.0

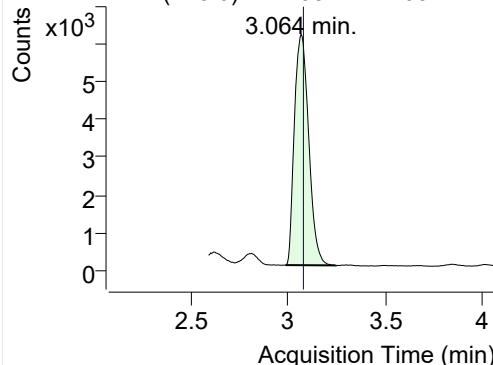


+ SIM (23.363-23.477 min, 16 scans) (**) 2212

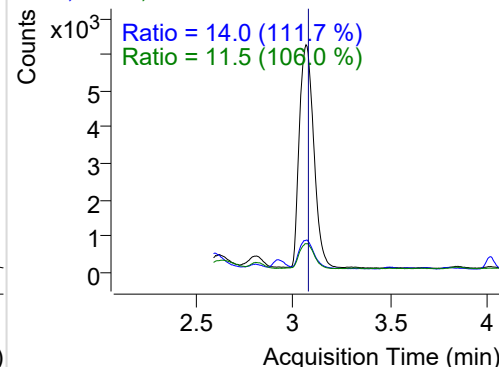


Naphthalene

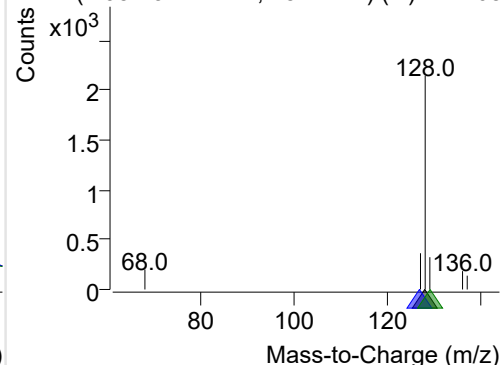
+ Selected Ion (128.0) 221208-PAHs-031.D



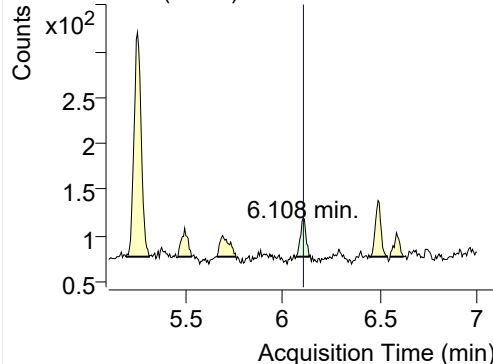
128.0, 127.0, 129.0



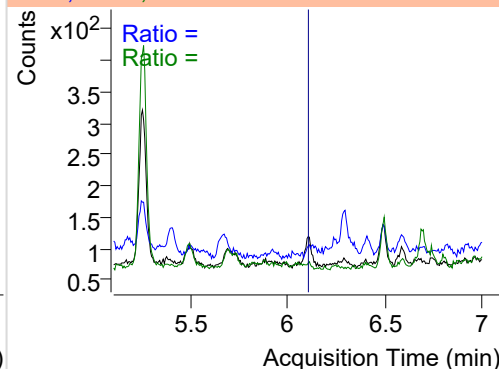
+ SIM (2.984-3.242 min, 48 scans) (**) 221208

**Acenaphthylene**

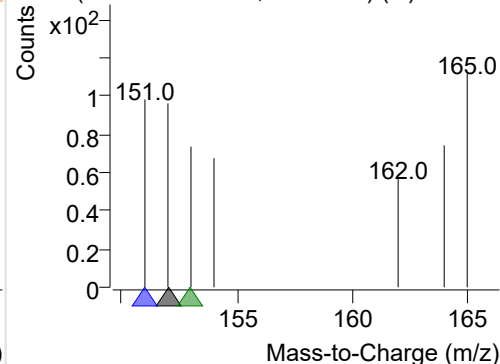
+ Selected Ion (152.0) 221208-PAHs-031.D



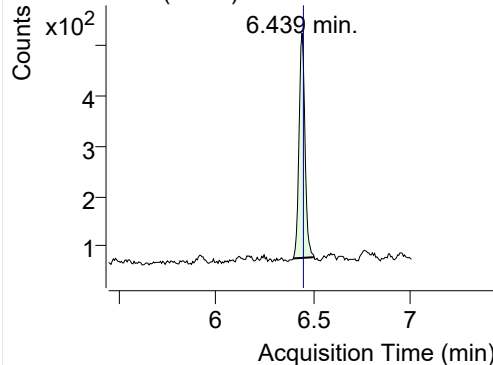
152.0, 151.0, 153.0



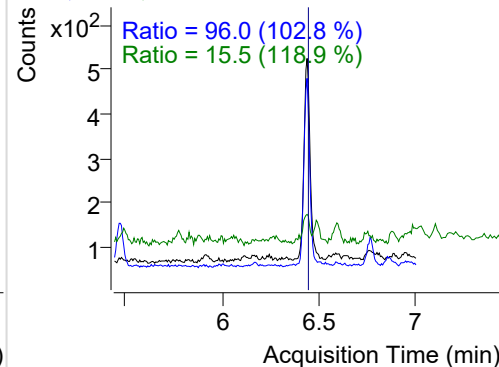
+ SIM (6.071-6.138 min, 12 scans) (**) 221208

**IS-D10-Acenaphthene**

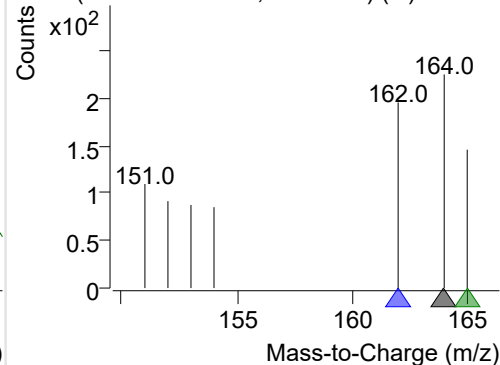
+ Selected Ion (164.0) 221208-PAHs-031.D



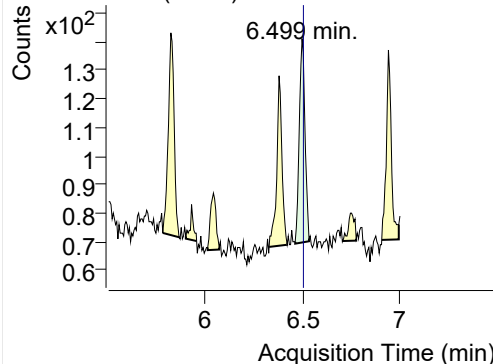
164.0, 162.0, 165.0



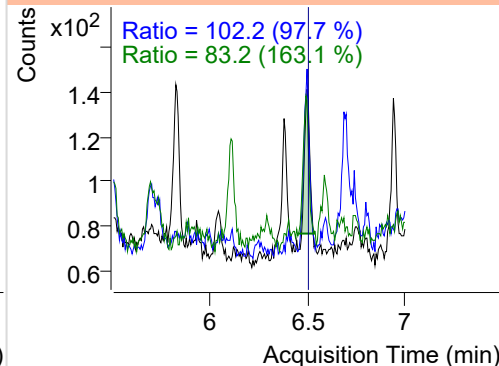
+ SIM (6.394-6.502 min, 18 scans) (**) 221208

**Acenaphthene**

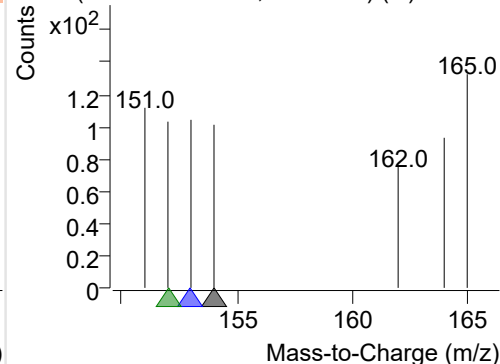
+ Selected Ion (154.0) 221208-PAHs-031.D



154.0, 153.0, 152.0

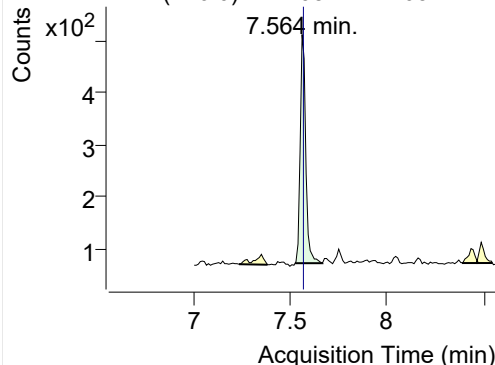


+ SIM (6.463-6.534 min, 13 scans) (**) 221208

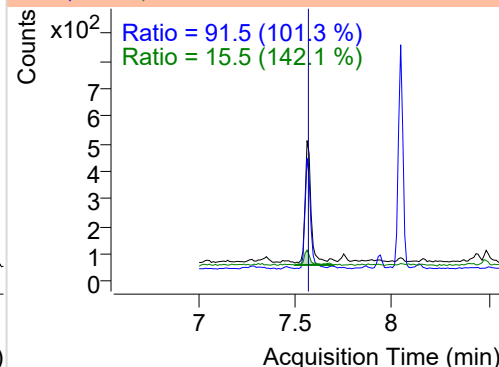


LSS-D10-Fluorene

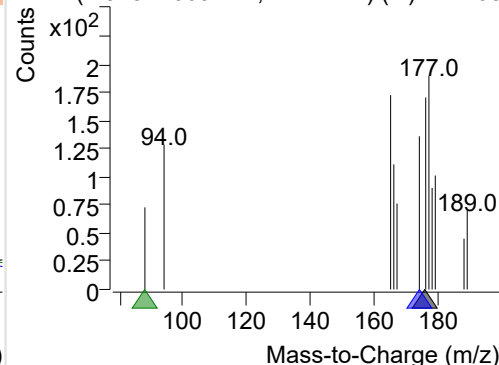
+ Selected Ion (176.0) 221208-PAHs-031.D



176.0, 174.0, 88.0

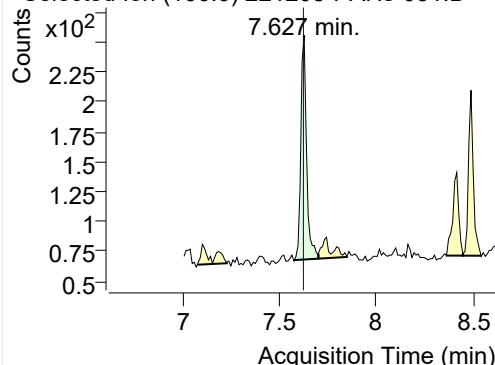


+ SIM (7.528-7.669 min, 14 scans) (**) 221208

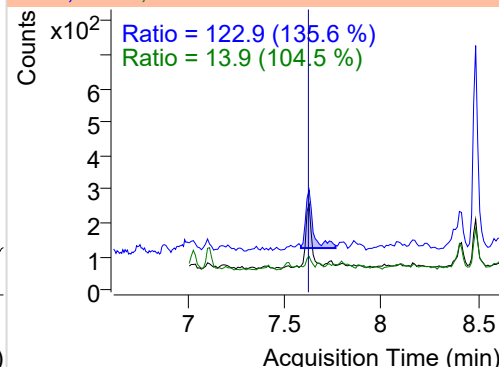


Fluorene

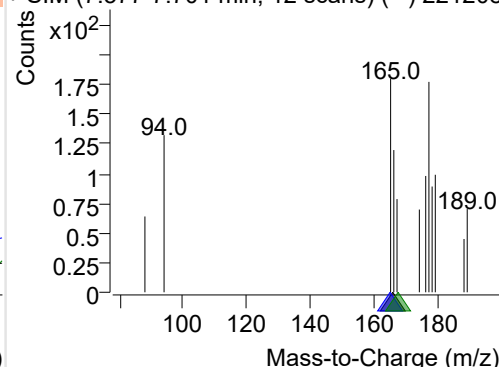
+ Selected Ion (166.0) 221208-PAHs-031.D



166.0, 165.0, 167.0

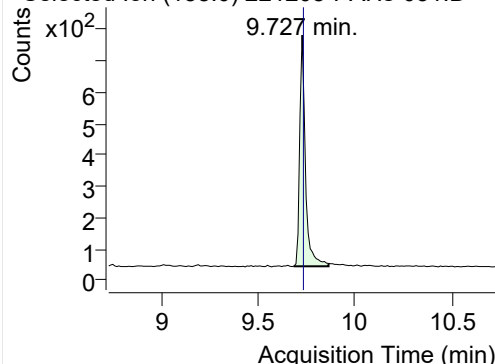


+ SIM (7.577-7.701 min, 12 scans) (**) 221208

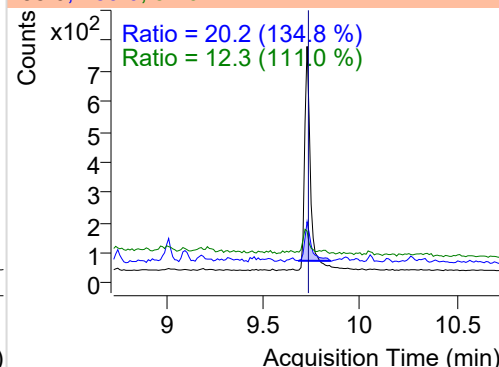


IS-D10-Phenanthrene

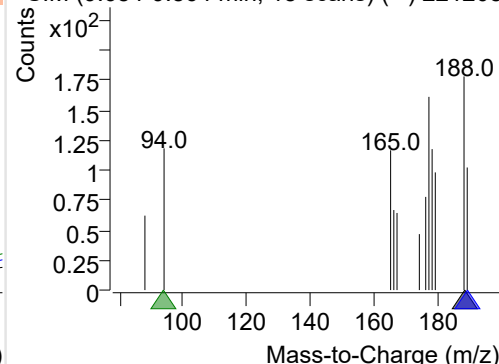
+ Selected Ion (188.0) 221208-PAHs-031.D



188.0, 189.0, 94.0

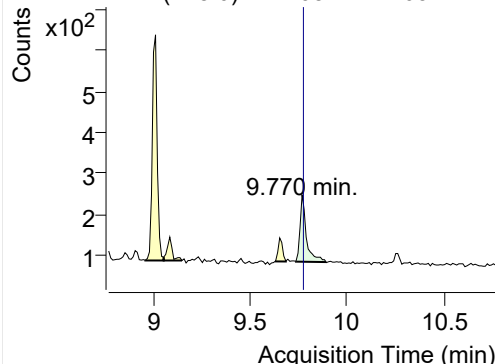


+ SIM (9.684-9.864 min, 18 scans) (**) 221208

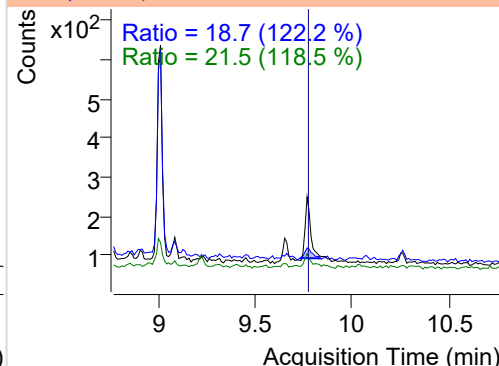


Phenanthrene

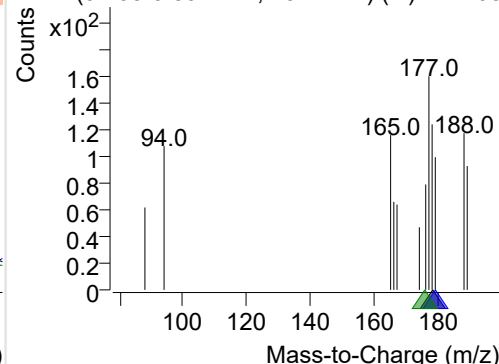
+ Selected Ion (178.0) 221208-PAHs-031.D



178.0, 179.0, 176.0

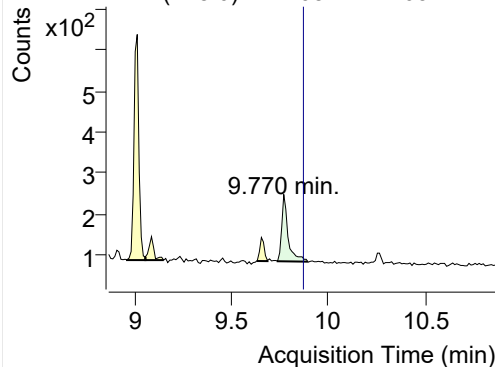


+ SIM (9.738-9.894 min, 15 scans) (**) 221208

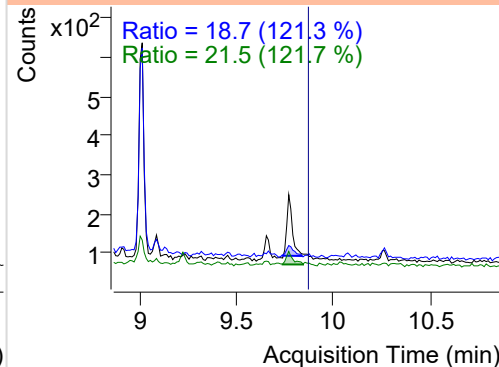


Anthracene

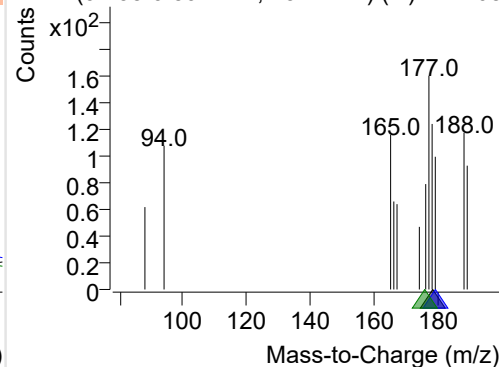
+ Selected Ion (178.0) 221208-PAHs-031.D



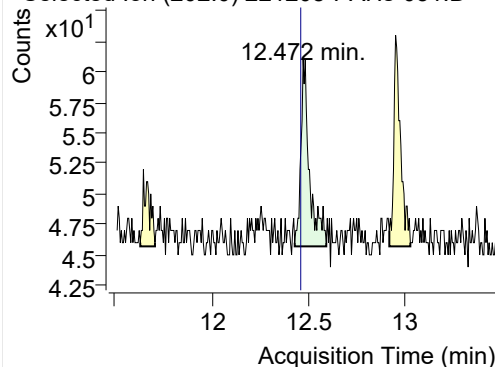
178.0, 179.0, 176.0



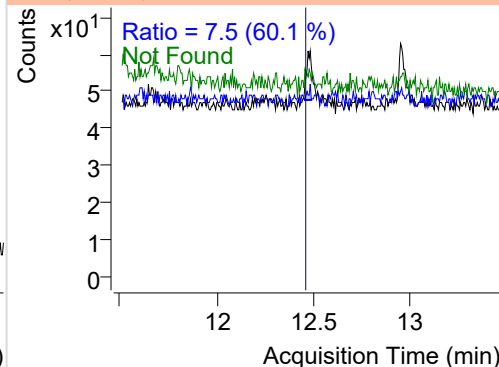
+ SIM (9.738-9.894 min, 15 scans) (**) 221208

**Fluoranthene**

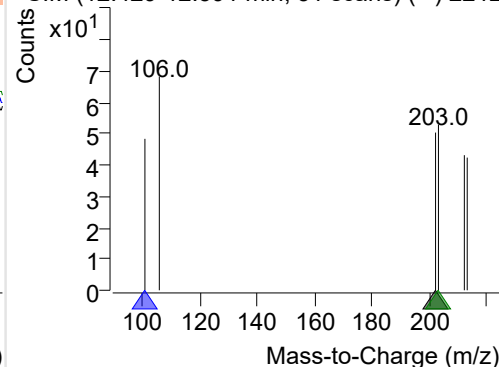
+ Selected Ion (202.0) 221208-PAHs-031.D



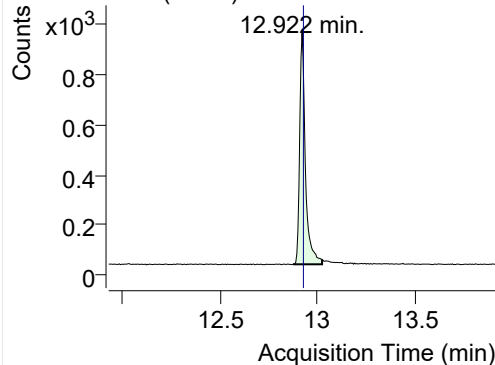
202.0, 101.0, 203.0



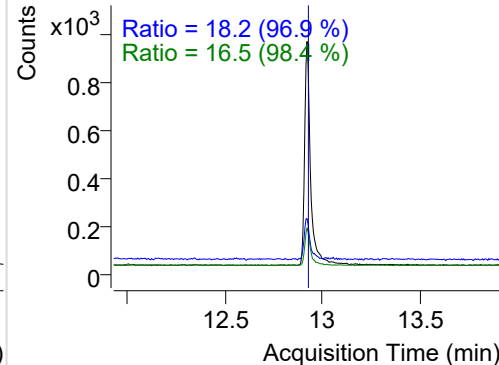
+ SIM (12.429-12.591 min, 31 scans) (**) 2212

**LSS-D10-Pyrene**

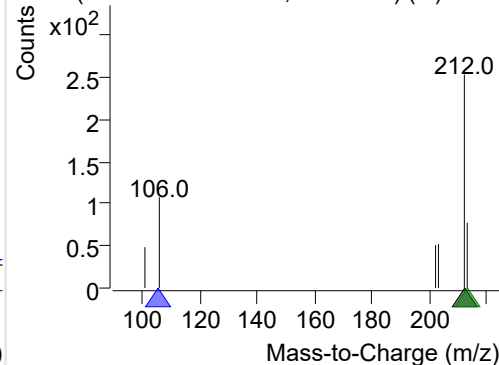
+ Selected Ion (212.0) 221208-PAHs-031.D



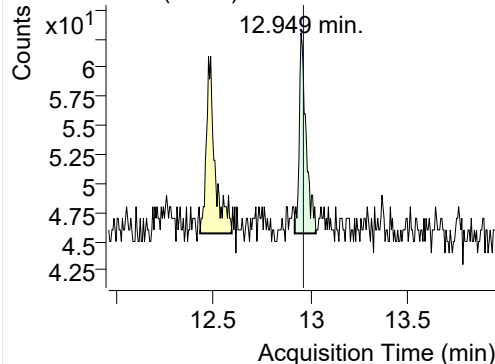
212.0, 106.0, 213.0



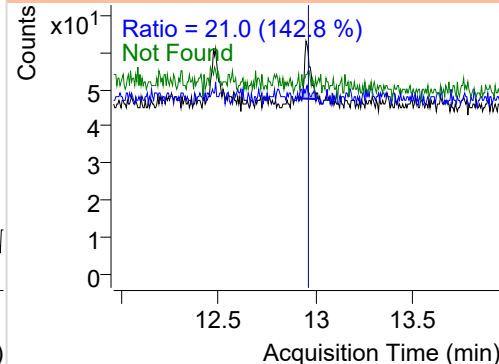
+ SIM (12.875-13.025 min, 28 scans) (**) 2212

**Pyrene**

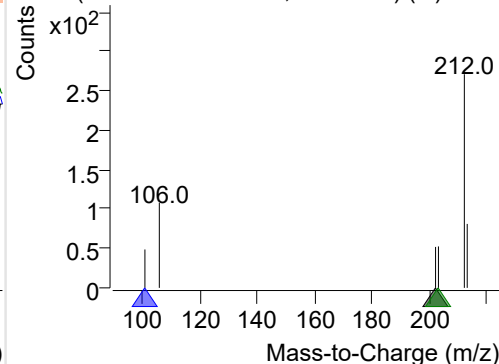
+ Selected Ion (202.0) 221208-PAHs-031.D



202.0, 101.0, 203.0



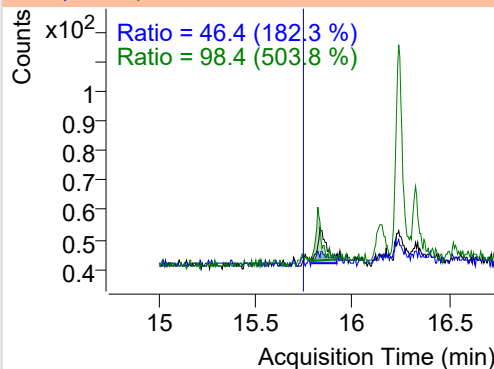
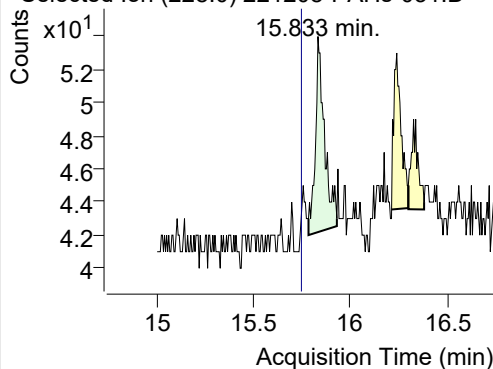
+ SIM (12.917-13.025 min, 21 scans) (**) 2212



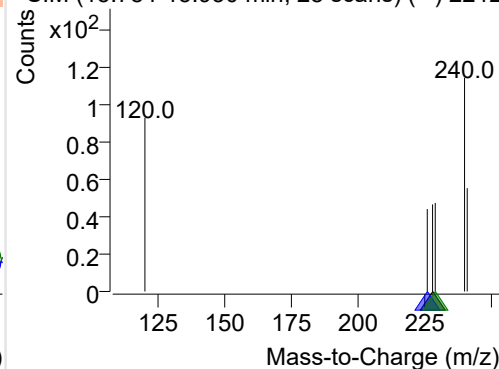
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-031.D

228.0, 226.0, 229.0

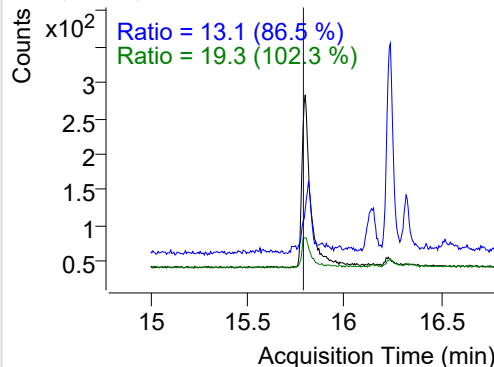
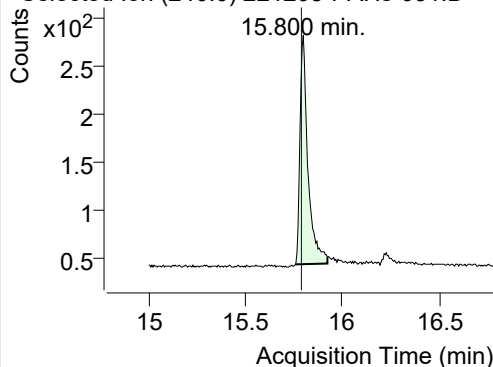


+ SIM (15.784-15.930 min, 28 scans) (**) 2212

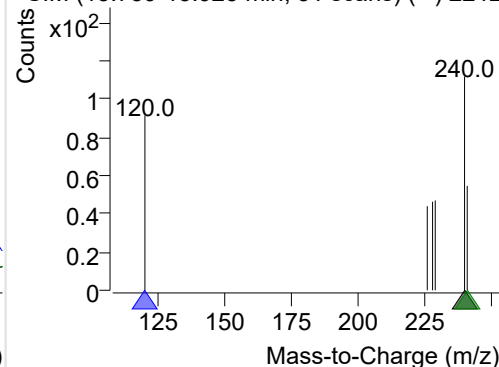
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-031.D

240.0, 120.0, 241.0

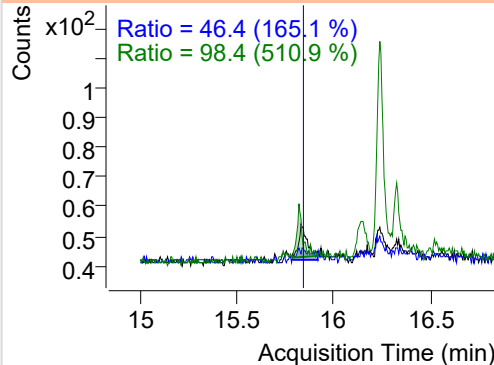
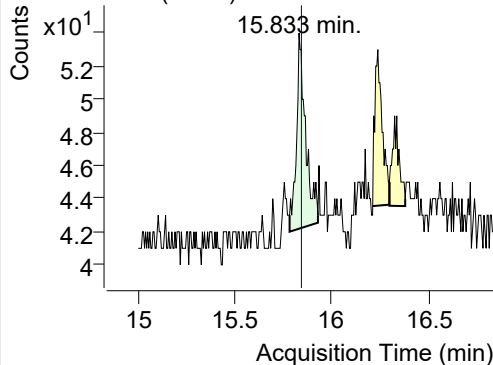


+ SIM (15.759-15.925 min, 31 scans) (**) 2212

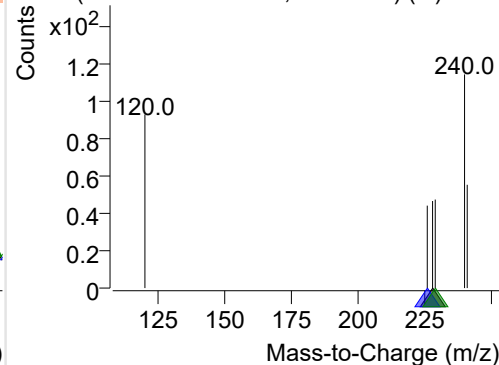
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-031.D

228.0, 226.0, 229.0

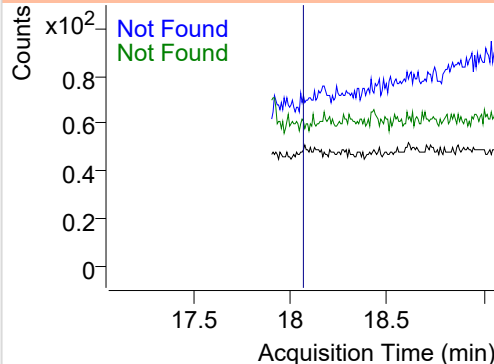
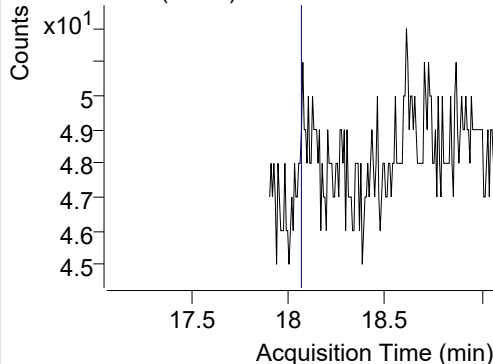


+ SIM (15.784-15.930 min, 28 scans) (**) 2212

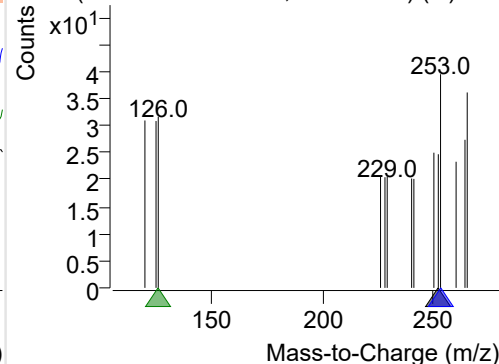
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-031.D

252.0, 253.0, 126.0



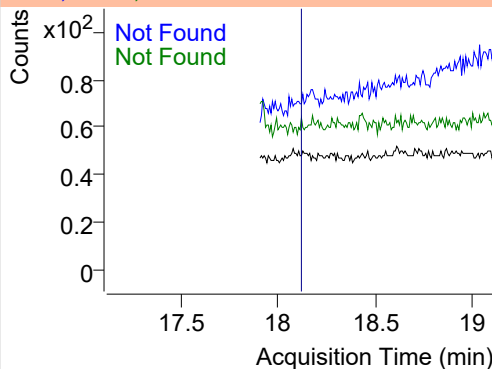
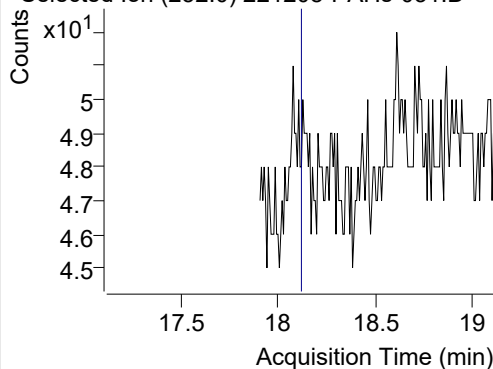
+ SIM (17.060-19.060 min, 318 scans) (**) 221



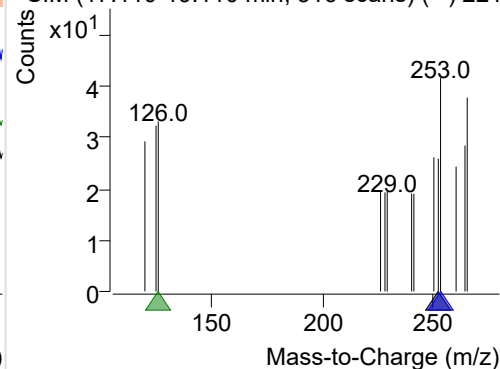
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-031.D

252.0, 253.0, 126.0

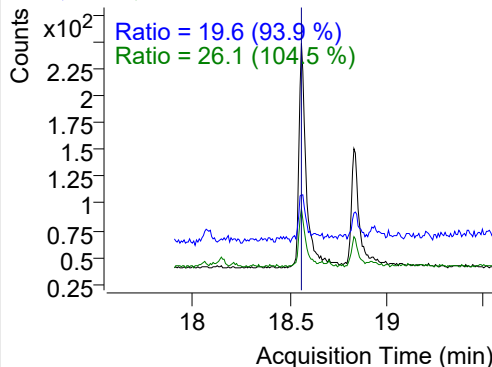
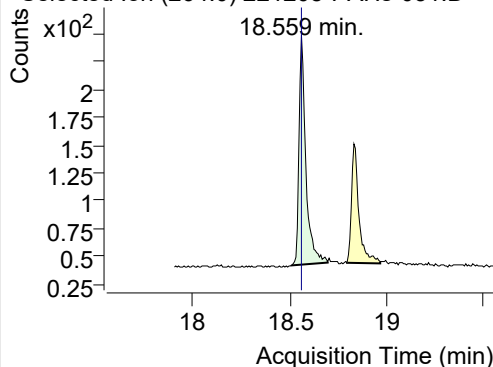


+ SIM (17.110-19.110 min, 316 scans) (**) 221

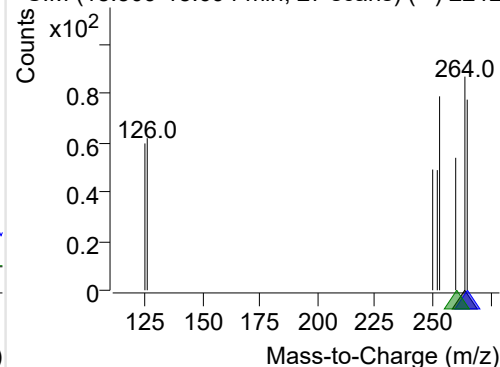
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-031.D

264.0, 265.0, 260.0

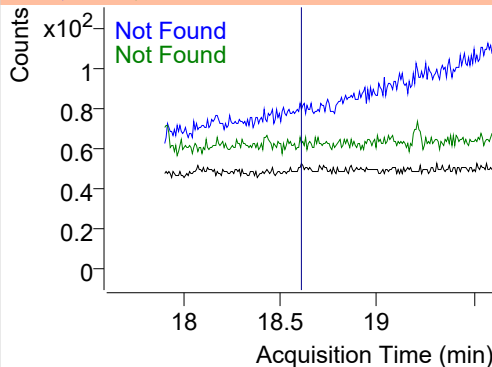
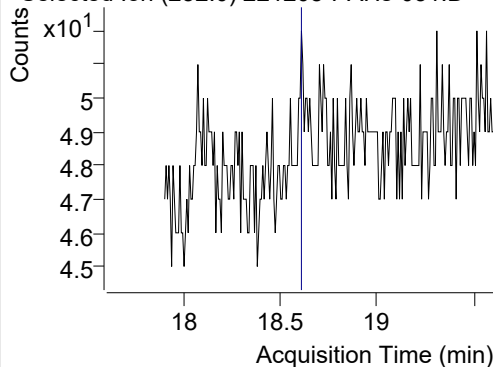


+ SIM (18.509-18.694 min, 27 scans) (**) 2212

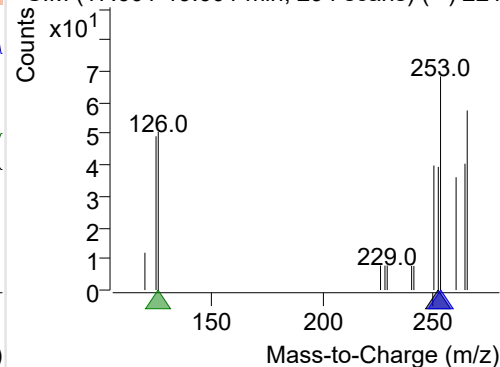
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-031.D

252.0, 253.0, 126.0

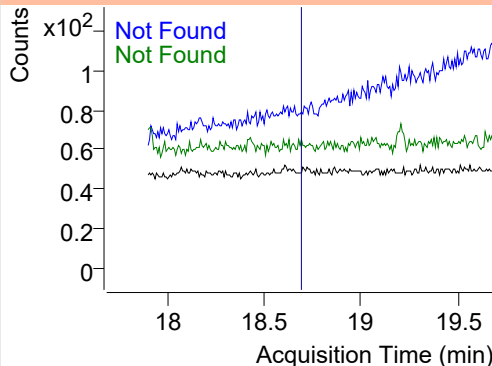
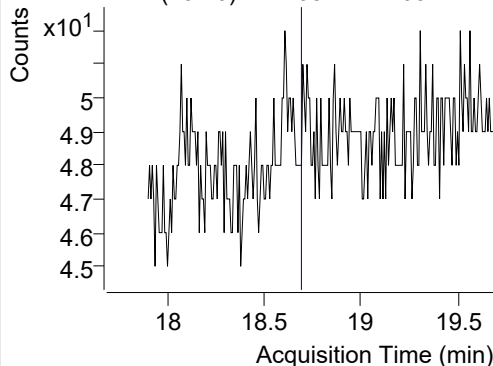


+ SIM (17.601-19.601 min, 294 scans) (**) 221

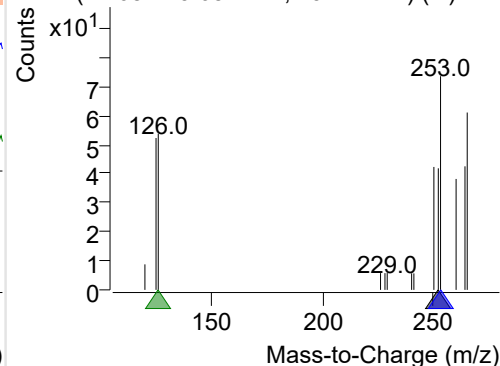
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-031.D

252.0, 253.0, 126.0

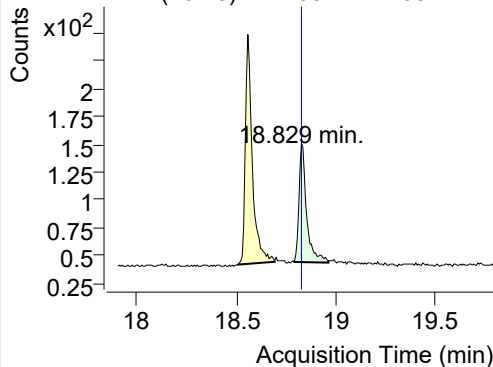


+ SIM (17.687-19.687 min, 291 scans) (**) 221

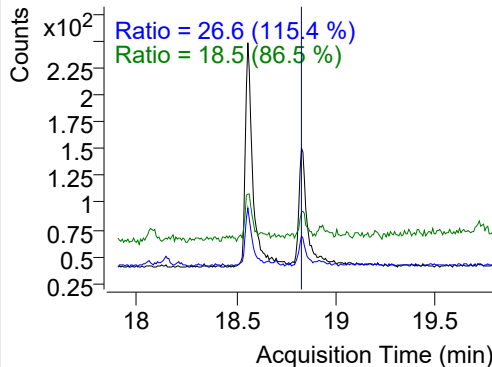


IS-D12-Perylene

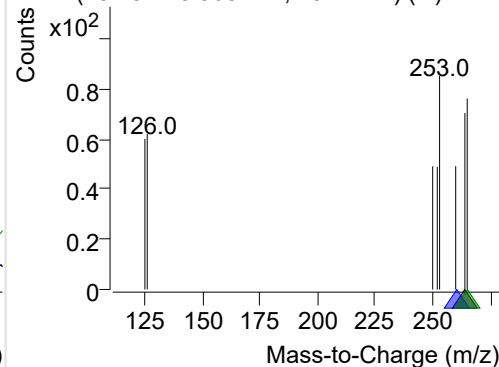
+ Selected Ion (264.0) 221208-PAHs-031.D



264.0, 260.0, 265.0

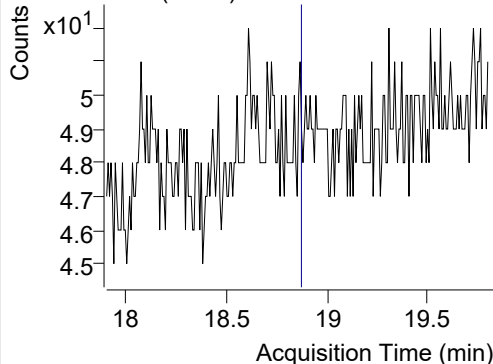


+ SIM (18.794-18.965 min, 25 scans) (**) 2212

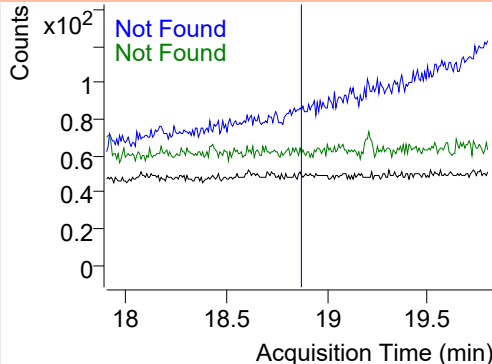


Perylene

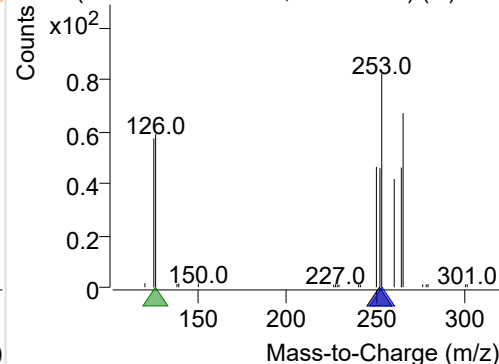
+ Selected Ion (252.0) 221208-PAHs-031.D



252.0, 253.0, 126.0

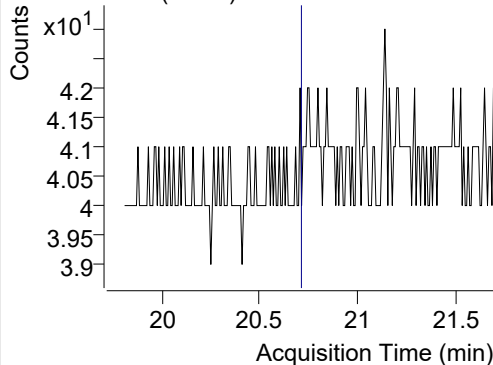


+ SIM (17.865-19.865 min, 282 scans) (**) 221

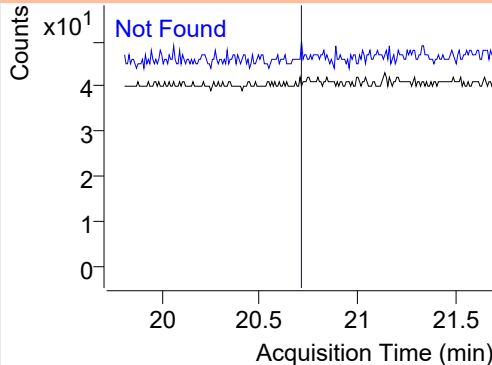


Indeno(1,2,3-c,d)pyrene

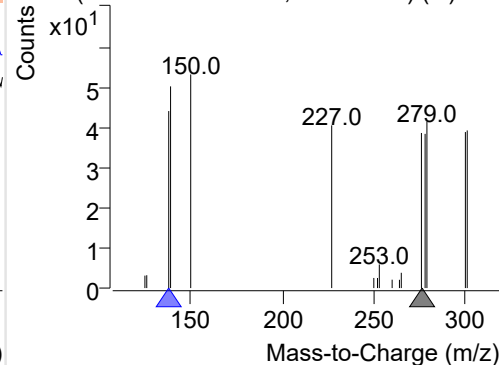
+ Selected Ion (276.0) 221208-PAHs-031.D



276.0, 138.0

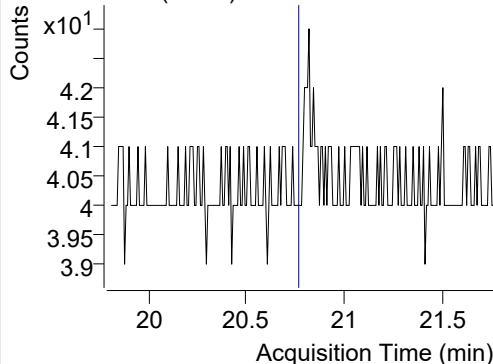


+ SIM (19.705-21.705 min, 262 scans) (**) 221

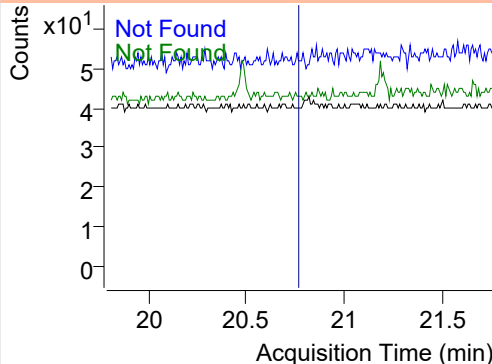


Dibenz(a,h)anthracene

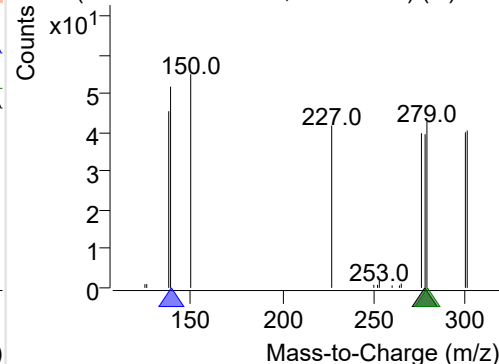
+ Selected Ion (278.0) 221208-PAHs-031.D



278.0, 139.0, 279.0



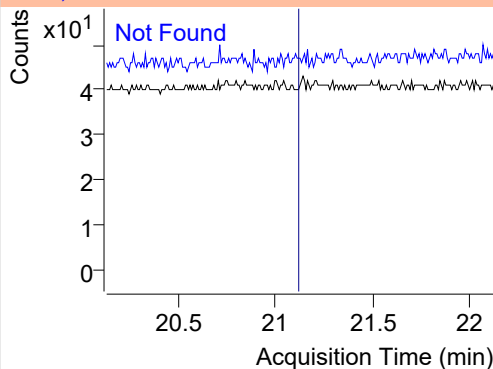
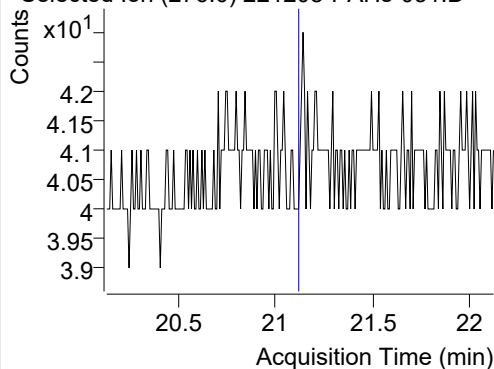
+ SIM (19.774-21.774 min, 262 scans) (**) 221



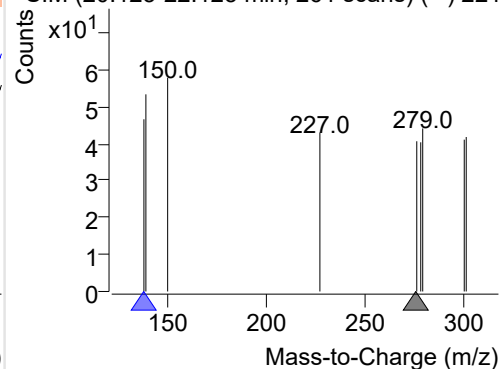
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221208-PAHs-031.D

276.0, 138.0

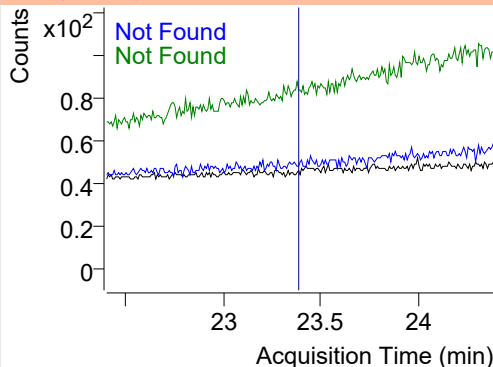
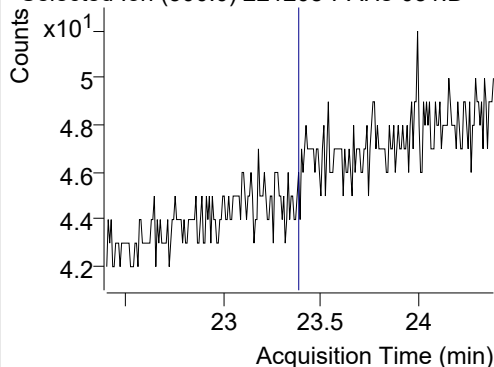


+ SIM (20.125-22.125 min, 261 scans) (**) 221

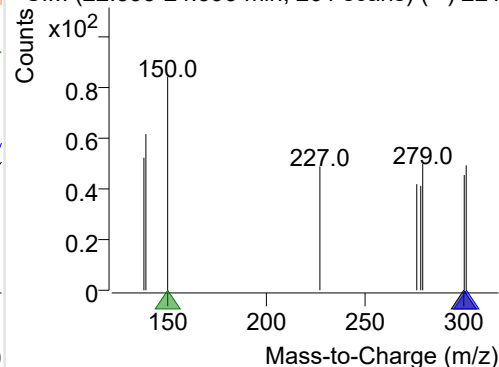
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-031.D

300.0, 301.0, 150.0



+ SIM (22.393-24.393 min, 261 scans) (**) 221



Quantitative Analysis Sample Based Report

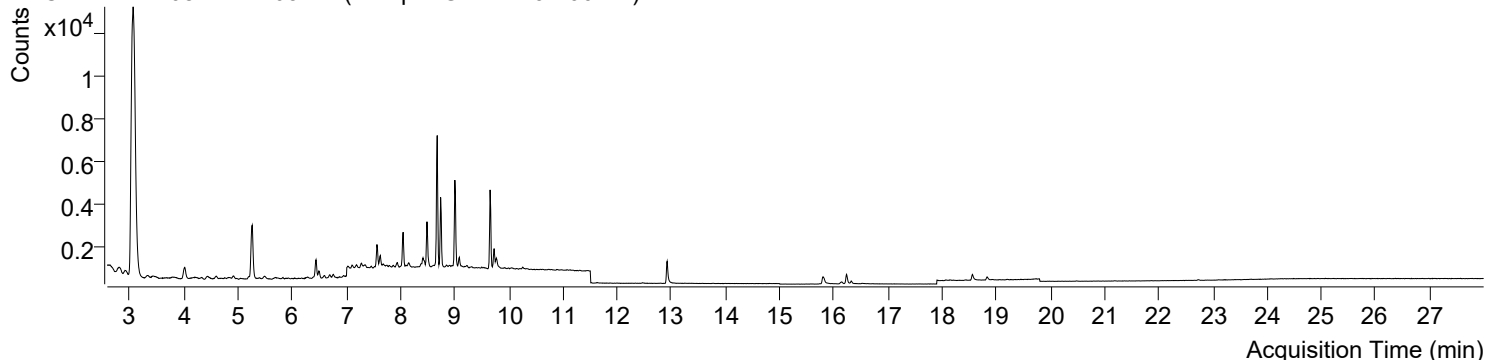


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 9:40:58	Data File	221208-PAHs-032.D
Type	Sample	Name	Sample-Gas-1119-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

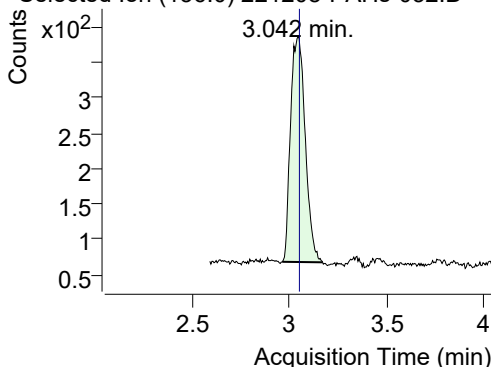
+ TIC SIM 221208-PAHs-032.D (Sample-Gas-1119-100DIL)



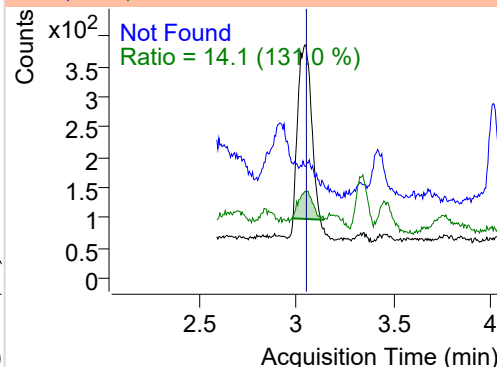
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.042	136.0	1669	317.94	ND ng/ml	14.1
Naphthalene	3.064	128.0	51863	9974.40	ND ng/ml	12.3
Acenaphthylene	6.493	152.0	151	74.24	ND ng/ml	43.7
IS-D10-Acenaphthene	6.439	164.0	891	431.86	ND ng/ml	94.0
Acenaphthene	6.499	154.0	171	83.00	ND ng/ml	108.8
LSS-D10-Fluorene	7.564	176.0	881	463.14	ND ng/ml	93.2
Fluorene	7.627	166.0	566	249.93	ND ng/ml	96.3
IS-D10-Phenanthrene	9.728	188.0	1421	719.51	ND ng/ml	19.0
Phenanthrene	9.770	178.0	598	265.91	ND ng/ml	21.8
Anthracene	9.770	178.0	598	265.91	ND ng/ml	21.8
Fluoranthene	12.472	202.0	65	19.71	ND ng/ml	14.6
LSS-D10-Pyrene	12.922	212.0	1611	763.48	ND ng/ml	18.3
Pyrene	12.965	202.0	41	16.29	ND ng/ml	
Benz(a)anthracene	15.838	228.0	42	10.44	ND ng/ml	32.7
IS-D12-Chrysene	15.800	240.0	667	226.72	ND ng/ml	16.8
Chrysene	15.838	228.0	42	10.44	ND ng/ml	32.7
Benzo(b)fluoranthene	18.609	252.0	5	2.75	ND ng/ml	
Benzo(k)fluoranthene	18.609	252.0	5	2.75	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.559	264.0	491	187.09	ND ng/ml	24.4
Benzo(e)pyrene	18.609	252.0	5	2.75	ND ng/ml	
Benzo(a)pyrene	18.609	252.0	5	2.75	ND ng/ml	
IS-D12-Perylene	18.829	264.0	257	100.86	ND ng/ml	27.9
Perylene	18.609	252.0	5	2.75	ND ng/ml	
Indeno(1,2,3-c,d)pytene		276.0			ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene		276.0			ND ng/ml	
Coronene	23.401	300.0	7	3.06	ND ng/ml	

IS-D8-Naphthalene

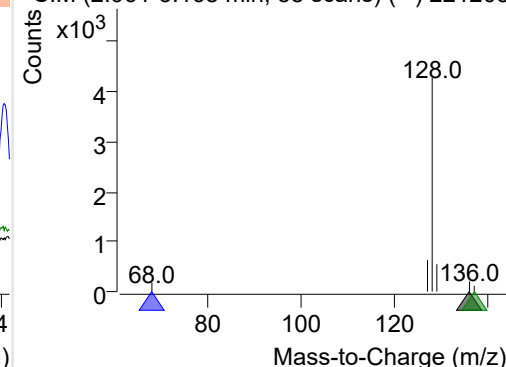
+ Selected Ion (136.0) 221208-PAHs-032.D



136.0, 68.0, 137.0

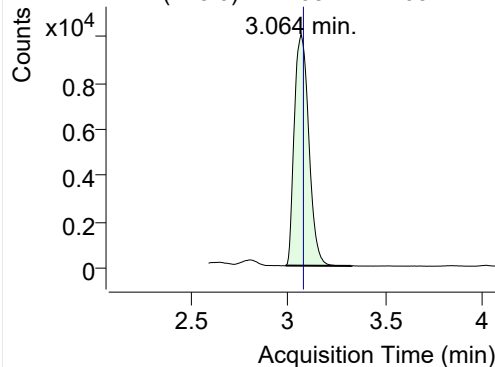


+ SIM (2.961-3.168 min, 38 scans) (**) 221208

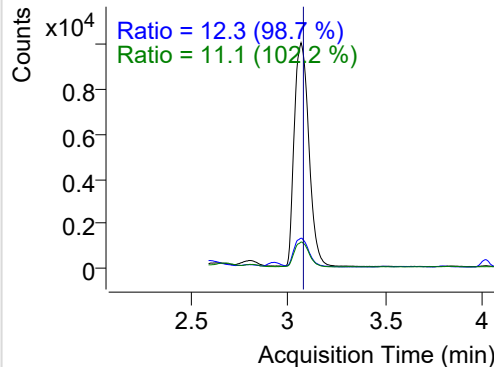


Naphthalene

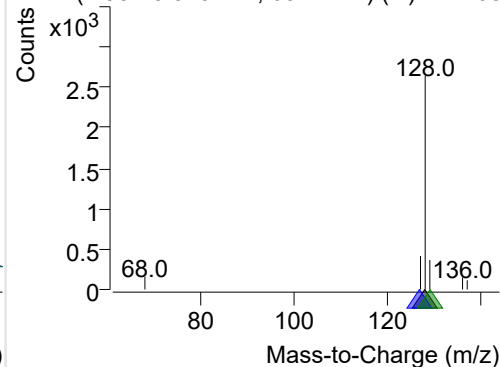
+ Selected Ion (128.0) 221208-PAHs-032.D



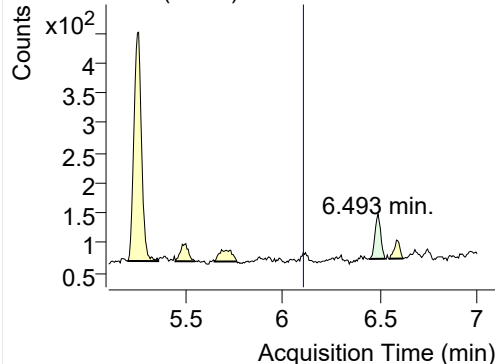
128.0, 127.0, 129.0



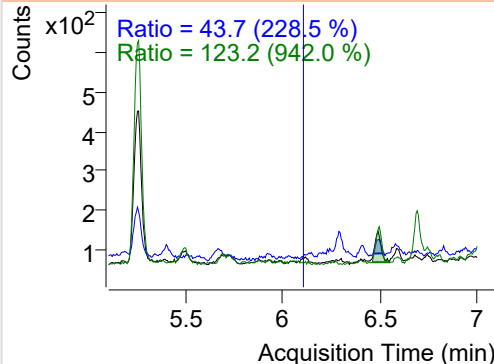
+ SIM (2.984-3.323 min, 63 scans) (**) 221208

**Acenaphthylene**

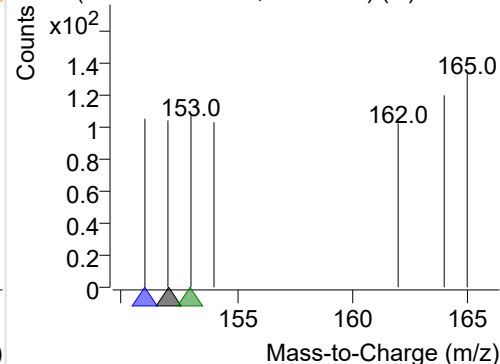
+ Selected Ion (152.0) 221208-PAHs-032.D



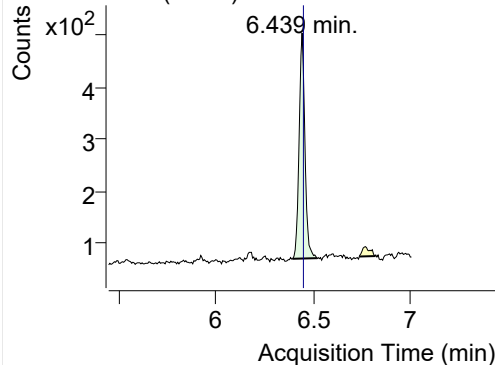
152.0, 151.0, 153.0



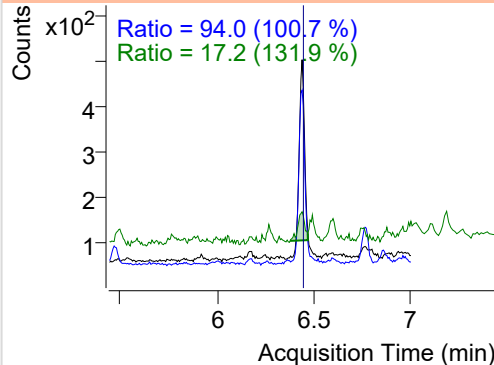
+ SIM (6.451-6.529 min, 14 scans) (**) 221208

**IS-D10-Acenaphthene**

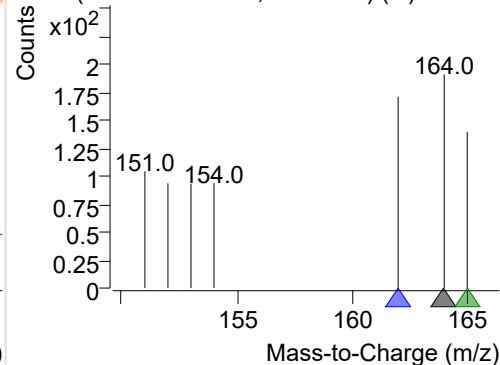
+ Selected Ion (164.0) 221208-PAHs-032.D



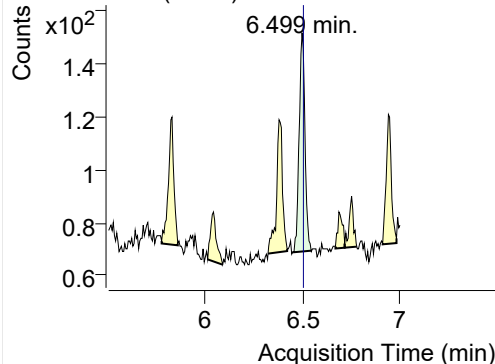
164.0, 162.0, 165.0



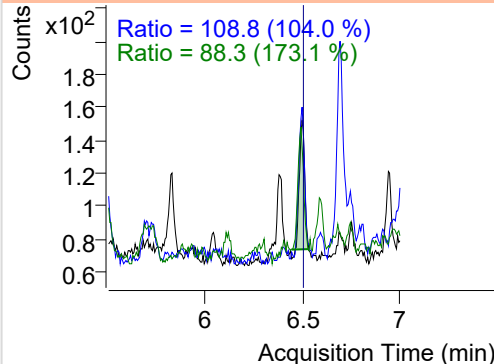
+ SIM (6.390-6.515 min, 21 scans) (**) 221208

**Acenaphthene**

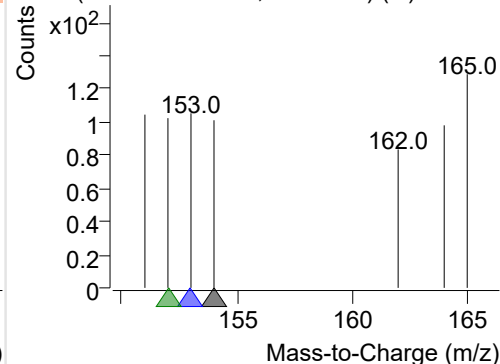
+ Selected Ion (154.0) 221208-PAHs-032.D



154.0, 153.0, 152.0

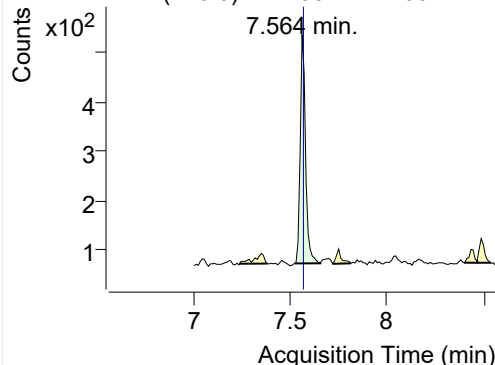


+ SIM (6.457-6.545 min, 15 scans) (**) 221208

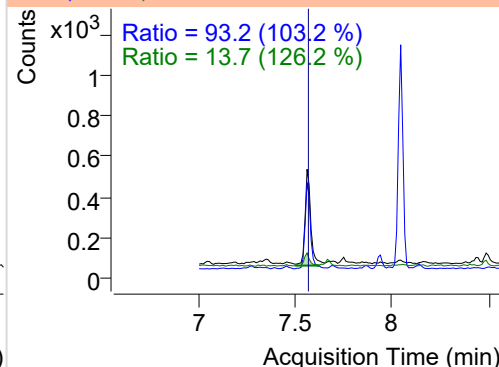


LSS-D10-Fluorene

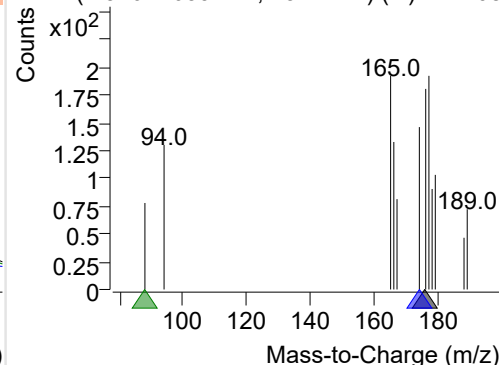
+ Selected Ion (176.0) 221208-PAHs-032.D



176.0, 174.0, 88.0

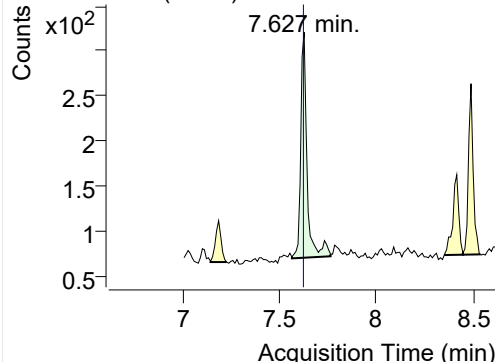


+ SIM (7.526-7.659 min, 13 scans) (**) 221208

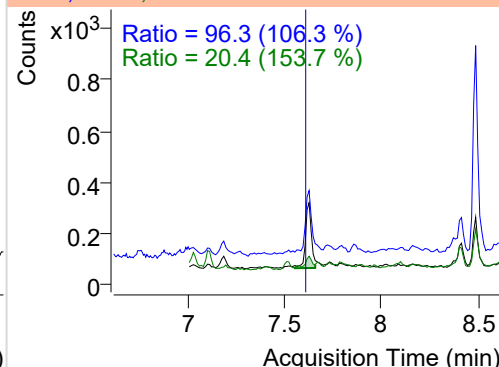


Fluorene

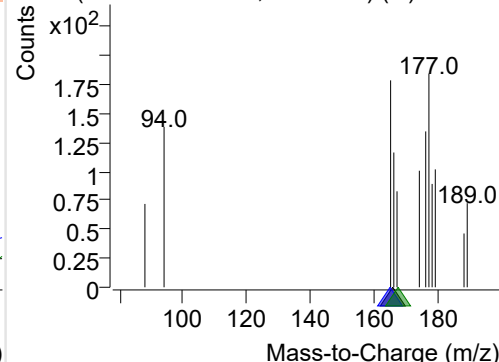
+ Selected Ion (166.0) 221208-PAHs-032.D



166.0, 165.0, 167.0

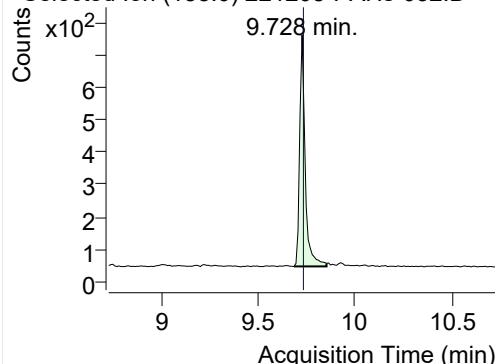


+ SIM (7.564-7.764 min, 20 scans) (**) 221208

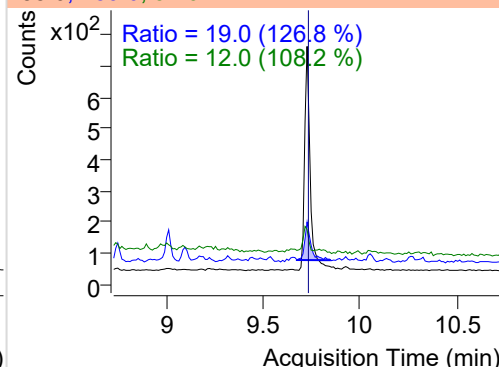


IS-D10-Phenanthrene

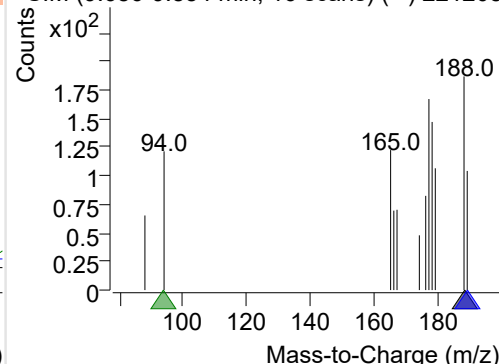
+ Selected Ion (188.0) 221208-PAHs-032.D



188.0, 189.0, 94.0

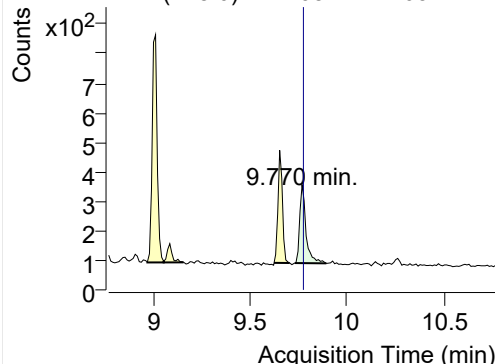


+ SIM (9.686-9.854 min, 16 scans) (**) 221208

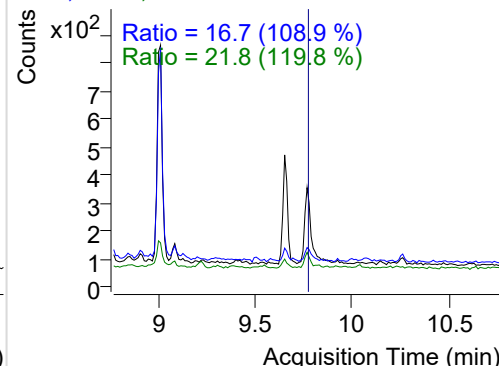


Phenanthrene

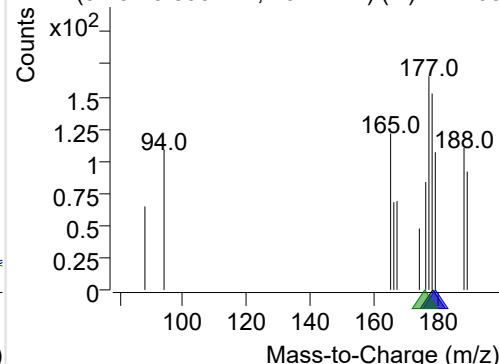
+ Selected Ion (178.0) 221208-PAHs-032.D



178.0, 179.0, 176.0

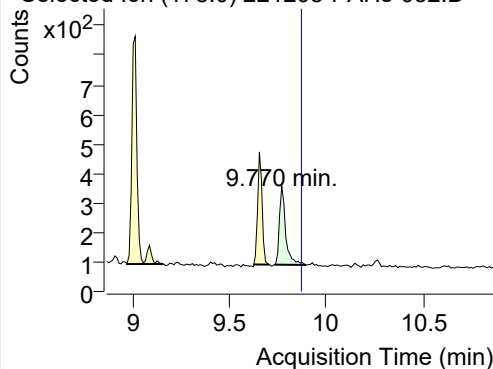


+ SIM (9.732-9.895 min, 15 scans) (**) 221208

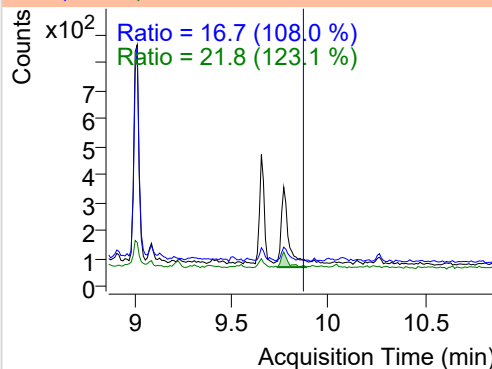


Anthracene

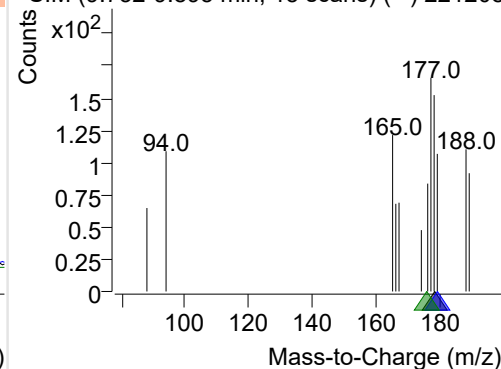
+ Selected Ion (178.0) 221208-PAHs-032.D



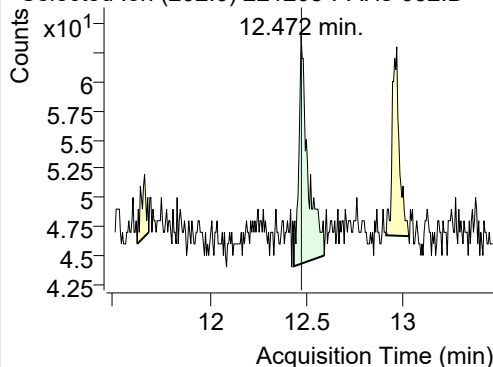
178.0, 179.0, 176.0



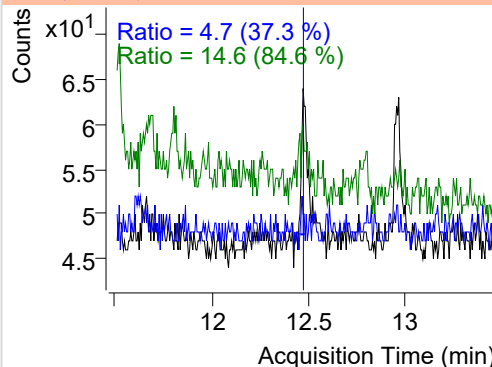
+ SIM (9.732-9.895 min, 15 scans) (**) 221208

**Fluoranthene**

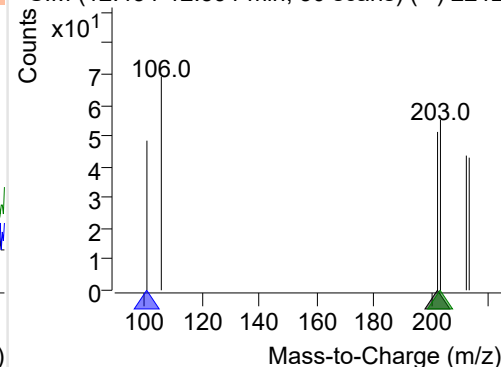
+ Selected Ion (202.0) 221208-PAHs-032.D



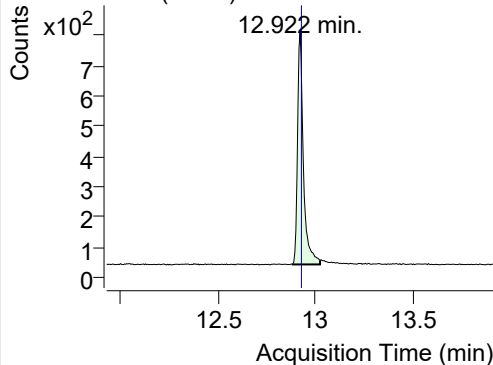
202.0, 101.0, 203.0



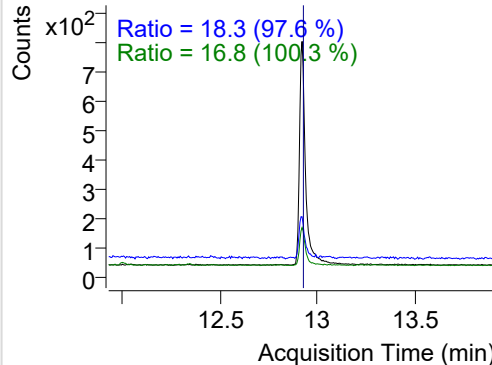
+ SIM (12.434-12.591 min, 30 scans) (**) 2212

**LSS-D10-Pyrene**

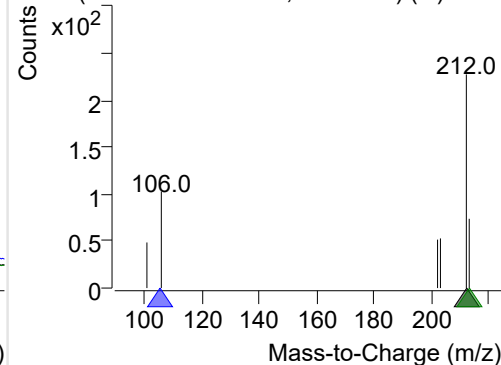
+ Selected Ion (212.0) 221208-PAHs-032.D



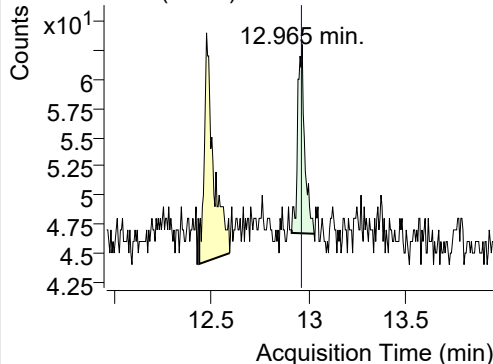
212.0, 106.0, 213.0



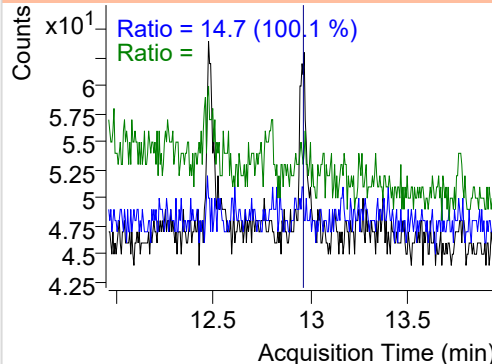
+ SIM (12.884-13.025 min, 27 scans) (**) 2212

**Pyrene**

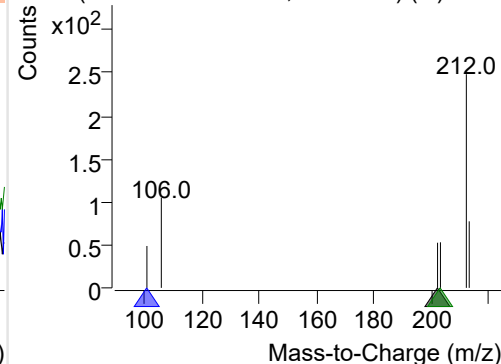
+ Selected Ion (202.0) 221208-PAHs-032.D



202.0, 101.0, 203.0



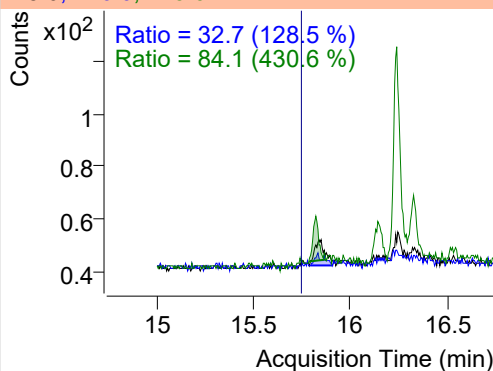
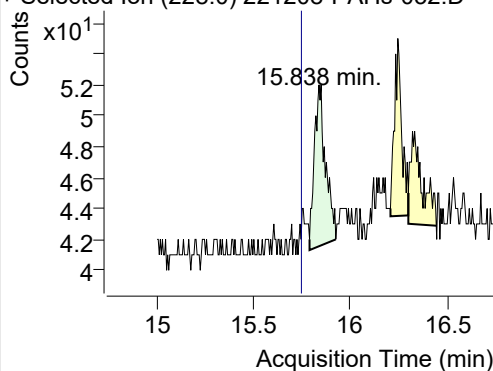
+ SIM (12.911-13.027 min, 22 scans) (**) 2212



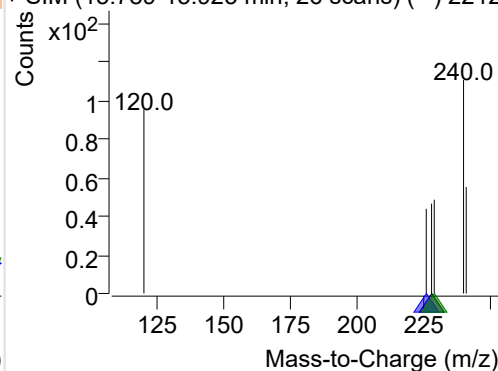
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-032.D

228.0, 226.0, 229.0

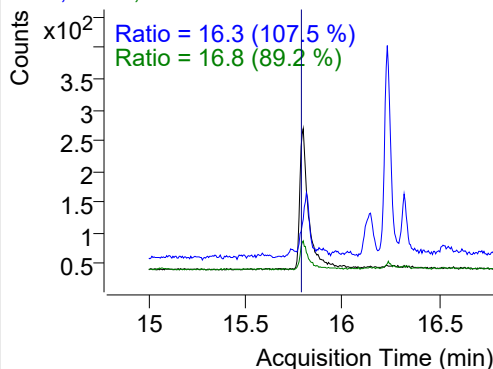
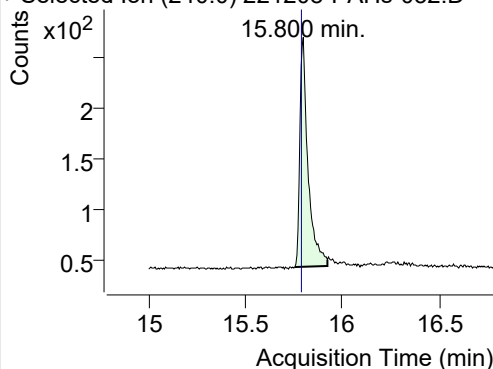


+ SIM (15.789-15.925 min, 26 scans) (**) 2212

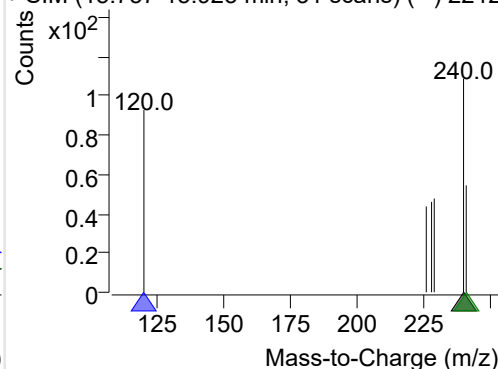
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-032.D

240.0, 120.0, 241.0

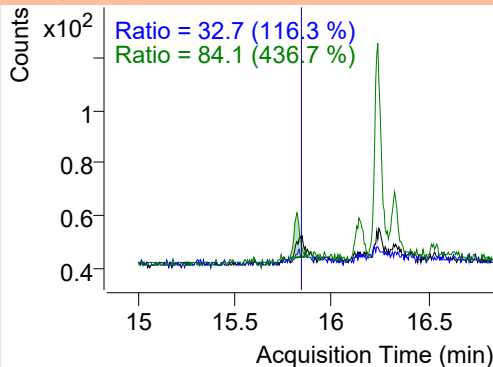
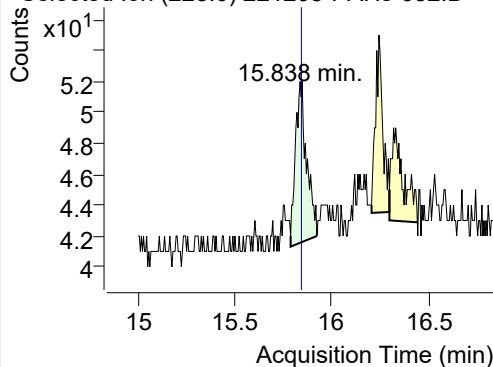


+ SIM (15.757-15.925 min, 31 scans) (**) 2212

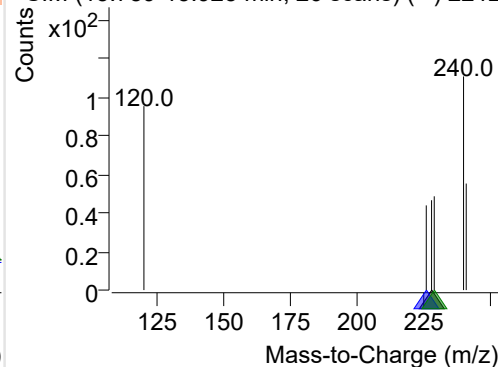
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-032.D

228.0, 226.0, 229.0

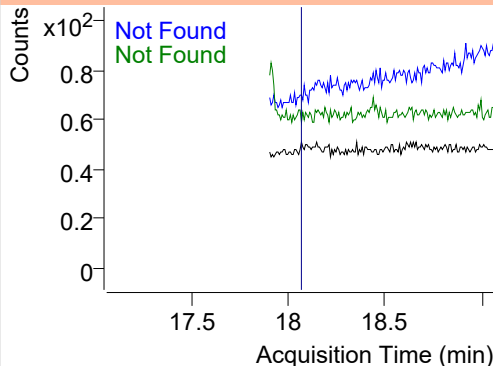
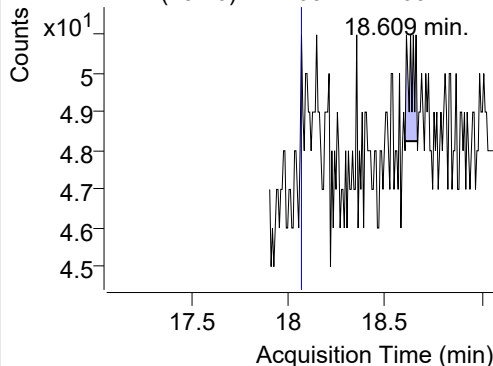


+ SIM (15.789-15.925 min, 26 scans) (**) 2212

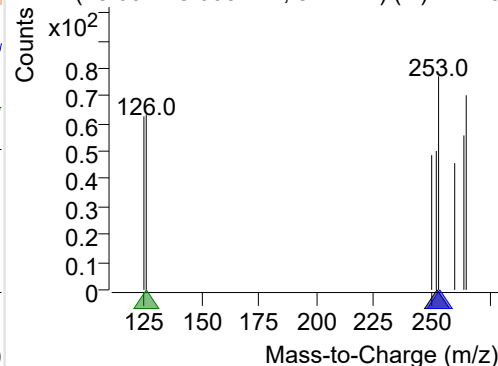
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-032.D

252.0, 253.0, 126.0



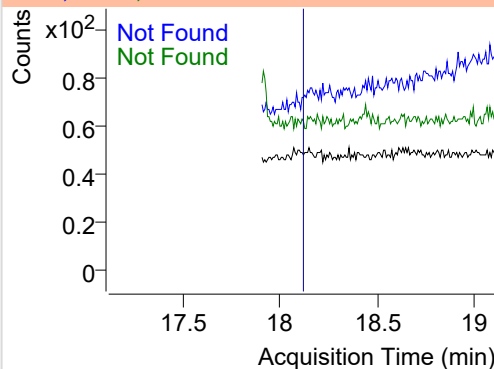
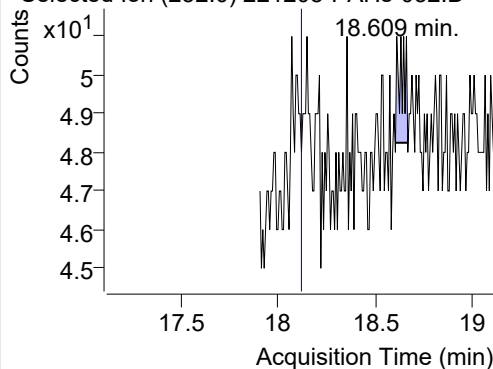
+ SIM (18.602-18.665 min, 8 scans) (**) 22120



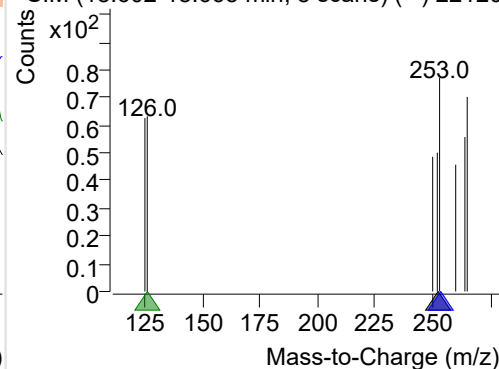
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-032.D

252.0, 253.0, 126.0

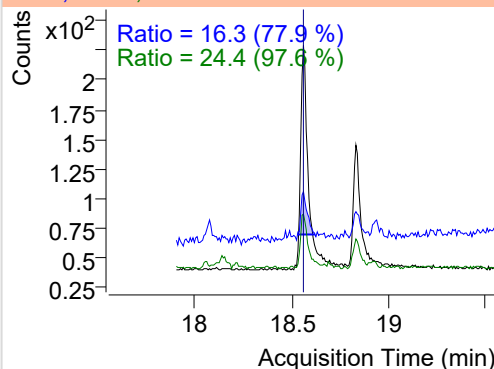
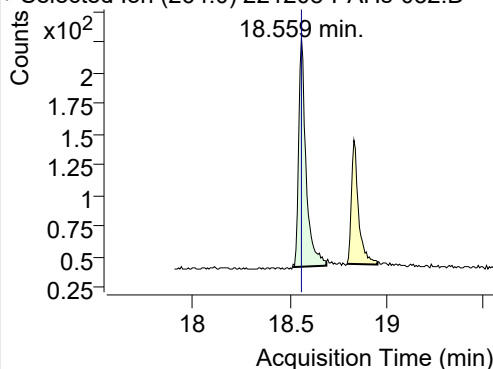


+ SIM (18.602-18.665 min, 8 scans) (**) 22120

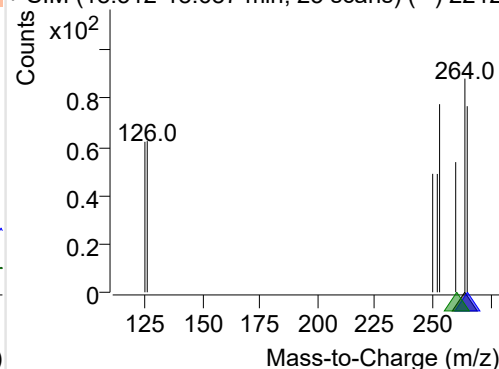
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-032.D

264.0, 265.0, 260.0

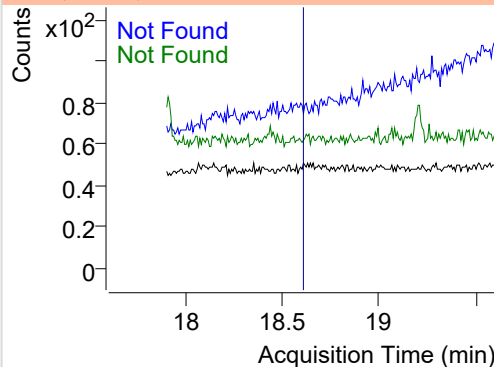
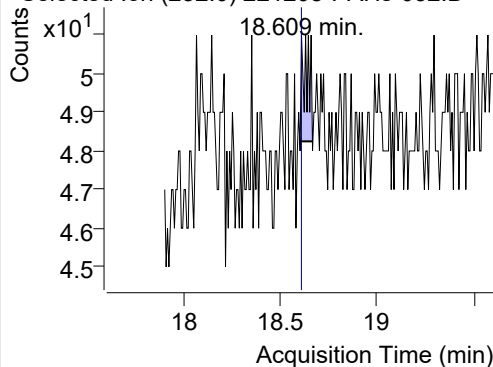


+ SIM (18.512-18.687 min, 25 scans) (**) 2212

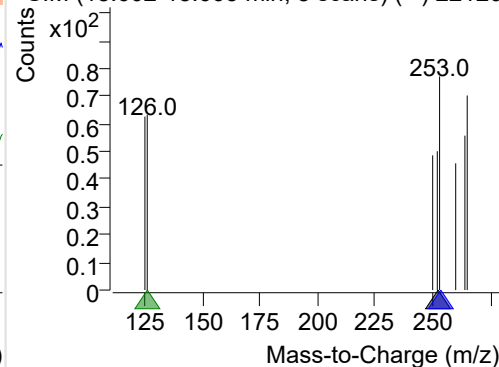
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-032.D

252.0, 253.0, 126.0

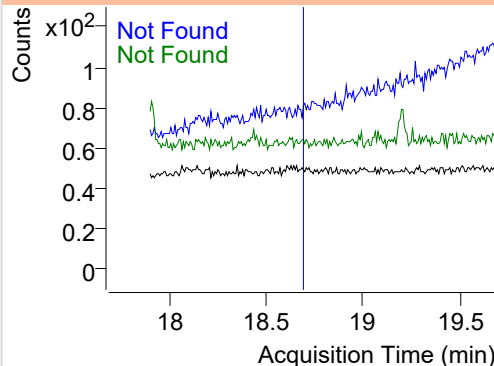
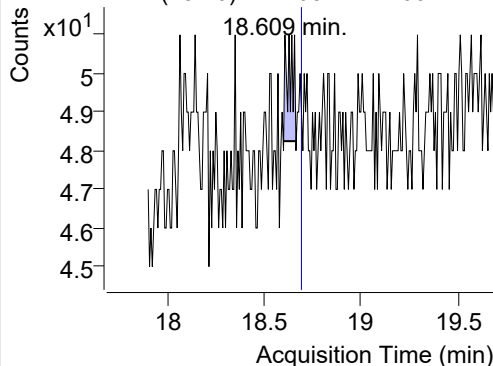


+ SIM (18.602-18.665 min, 8 scans) (**) 22120

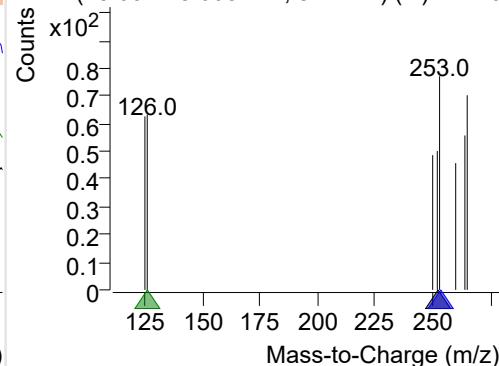
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-032.D

252.0, 253.0, 126.0



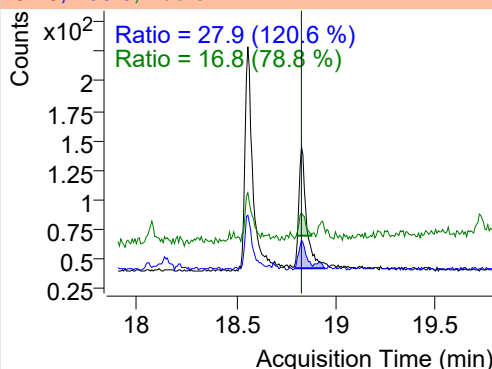
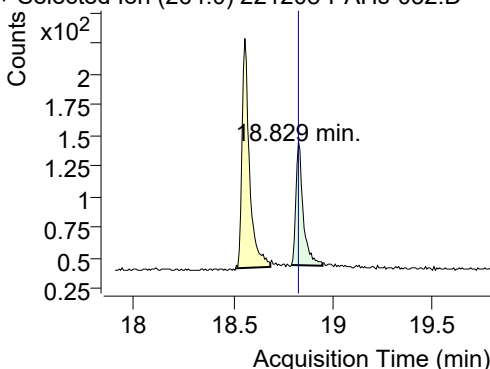
+ SIM (18.602-18.665 min, 8 scans) (**) 22120



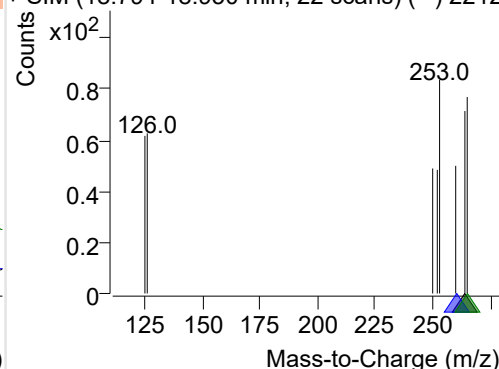
IS-D12-Perylene

+ Selected Ion (264.0) 221208-PAHs-032.D

264.0, 260.0, 265.0



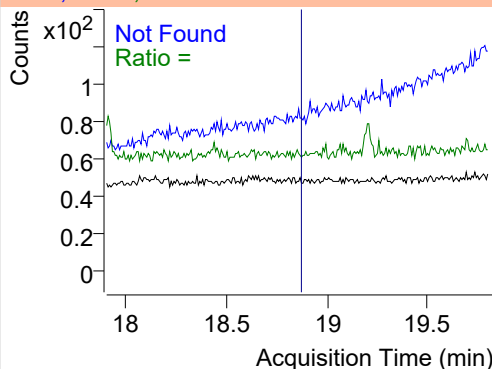
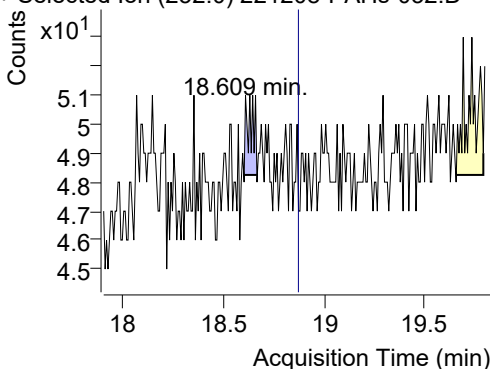
+ SIM (18.794-18.950 min, 22 scans) (**) 2212



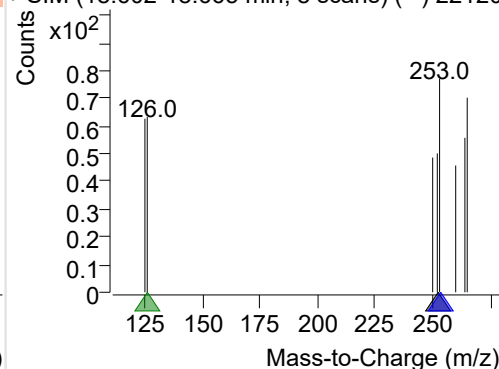
Perylene

+ Selected Ion (252.0) 221208-PAHs-032.D

252.0, 253.0, 126.0



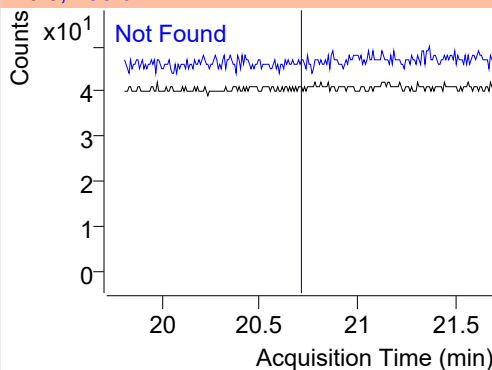
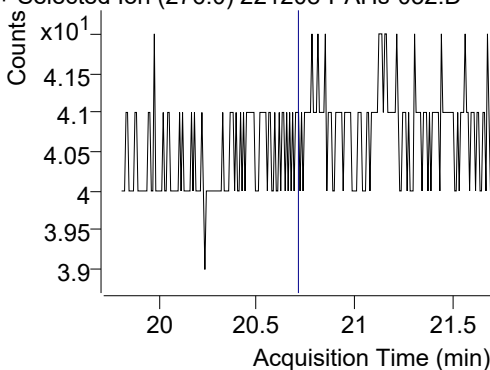
+ SIM (18.602-18.665 min, 8 scans) (**) 22120



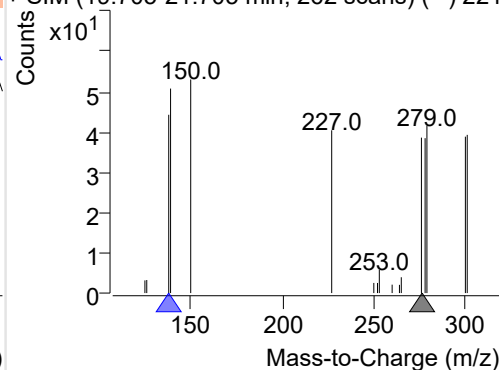
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 221208-PAHs-032.D

276.0, 138.0



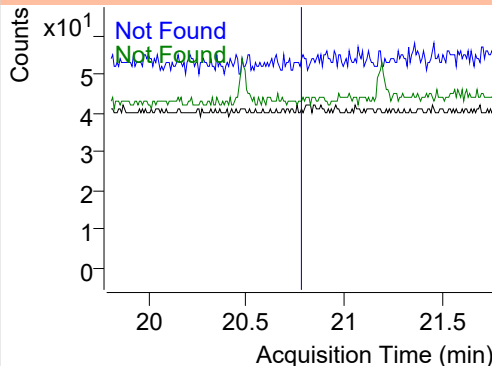
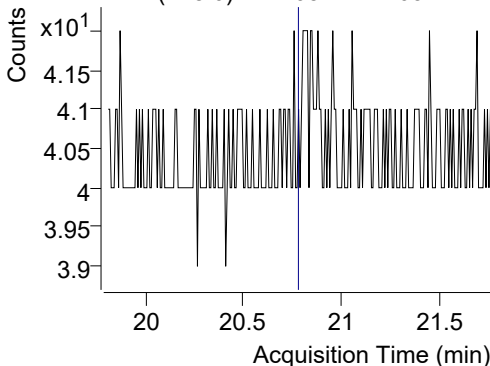
+ SIM (19.705-21.705 min, 262 scans) (**) 221



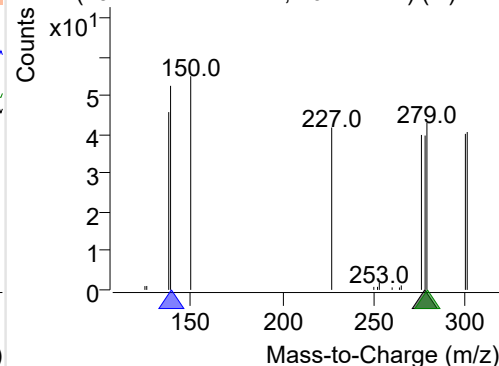
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 221208-PAHs-032.D

278.0, 139.0, 279.0



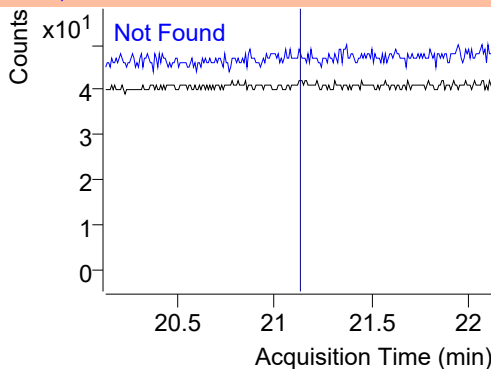
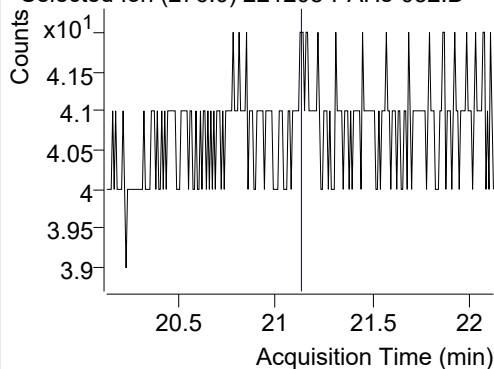
+ SIM (19.774-21.774 min, 262 scans) (**) 221



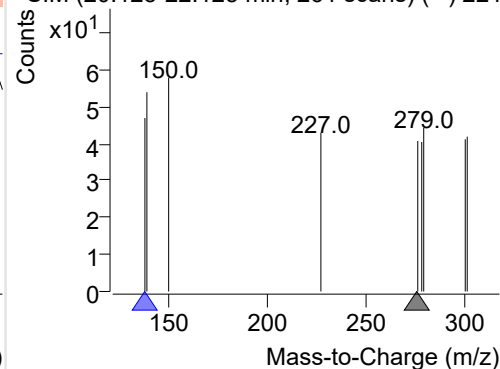
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221208-PAHs-032.D

276.0, 138.0

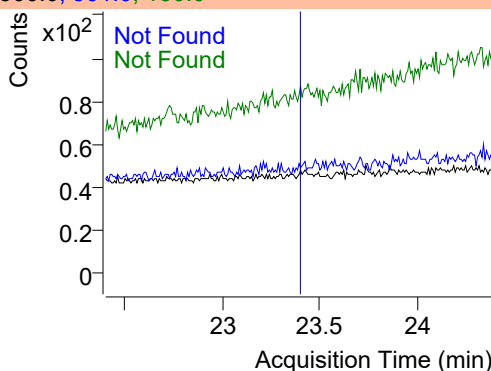
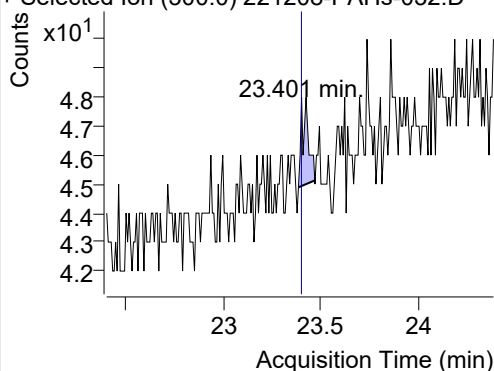


+ SIM (20.125-22.125 min, 261 scans) (**) 221

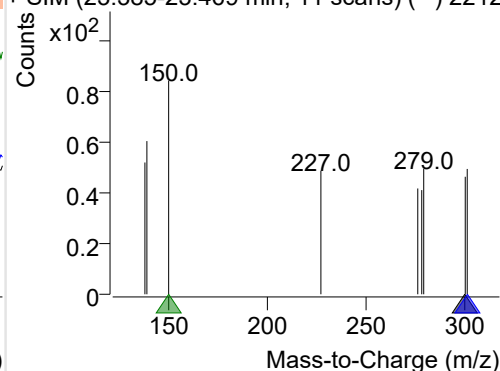
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-032.D

300.0, 301.0, 150.0



+ SIM (23.385-23.469 min, 11 scans) (**) 2212



Quantitative Analysis Sample Based Report

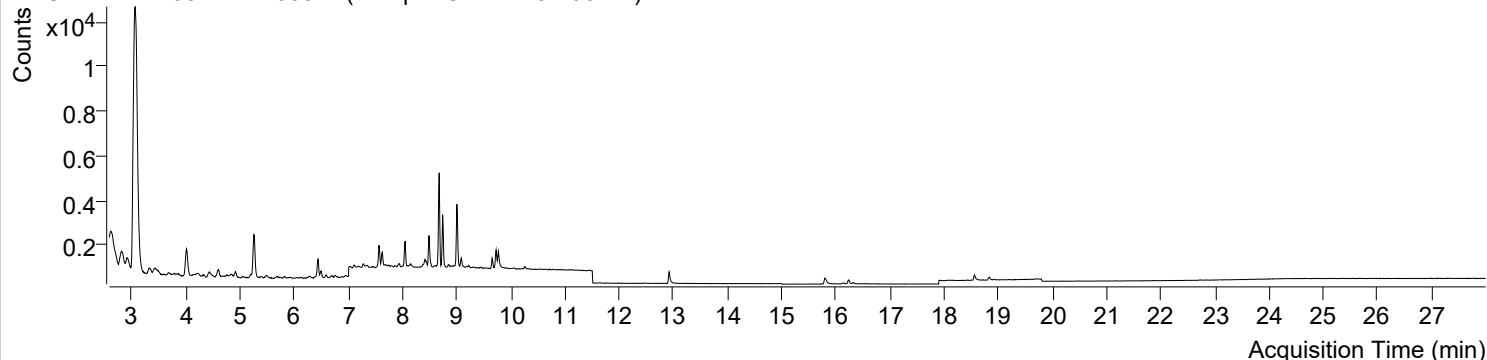


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 10:12:04	Data File	221208-PAHs-033.D
Type	Sample	Name	Sample-Gas-1125-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

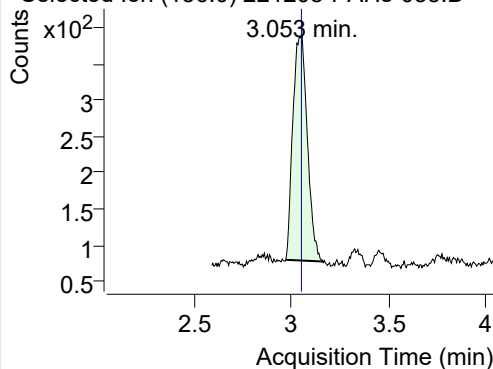
+ TIC SIM 221208-PAHs-033.D (Sample-Gas-1125-100DIL)



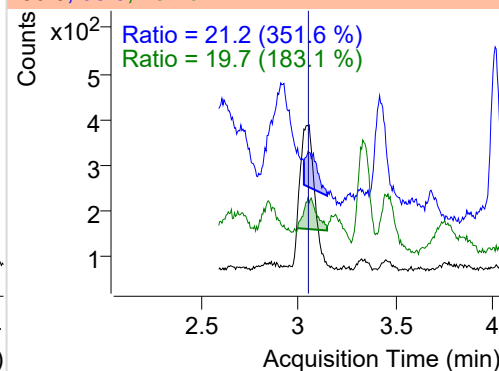
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.053	136.0	1605	309.16	ND ng/ml	19.7
Naphthalene	3.063	128.0	48090	9262.26	ND ng/ml	12.7
Acenaphthylene	6.108	152.0	40	20.74	ND ng/ml	48.4
IS-D10-Acenaphthene	6.439	164.0	851	396.26	ND ng/ml	95.9
Acenaphthene	6.499	154.0	158	73.37	ND ng/ml	98.8
LSS-D10-Fluorene	7.564	176.0	850	423.13	ND ng/ml	88.0
Fluorene	7.627	166.0	626	303.69	ND ng/ml	99.5
IS-D10-Phenanthrene	9.727	188.0	1330	638.48	ND ng/ml	17.7
Phenanthrene	9.769	178.0	973	444.17	ND ng/ml	19.2
Anthracene	9.769	178.0	973	444.17	ND ng/ml	19.2
Fluoranthene	12.472	202.0	25	11.63	ND ng/ml	39.7
LSS-D10-Pyrene	12.922	212.0	849	375.69	ND ng/ml	17.6
Pyrene	12.954	202.0	34	16.08	ND ng/ml	33.3
Benz(a)anthracene	15.827	228.0	29	10.00	ND ng/ml	41.5
IS-D12-Chrysene	15.800	240.0	564	182.21	ND ng/ml	19.8
Chrysene	15.827	228.0	29	10.00	ND ng/ml	41.5
Benzo(b)fluoranthene	18.623	252.0	2	2.96	ND ng/ml	
Benzo(k)fluoranthene	18.623	252.0	2	2.96	ND ng/ml	
SS-D12-Benzo(e)pyrene	18.559	264.0	414	162.19	ND ng/ml	23.8
Benzo(e)pyrene	18.623	252.0	2	2.96	ND ng/ml	
Benzo(a)pyrene	18.623	252.0	2	2.96	ND ng/ml	
IS-D12-Perylene	18.829	264.0	246	89.19	ND ng/ml	26.8
Perylene	18.623	252.0	2	2.96	ND ng/ml	
Indeno(1,2,3-c,d)pyrene		276.0			ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene		276.0			ND ng/ml	
Coronene		300.0			ND ng/ml	

IS-D8-Naphthalene

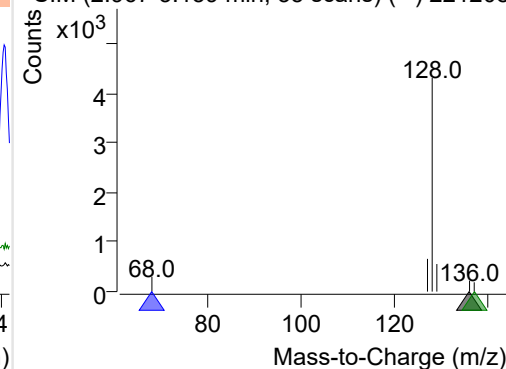
+ Selected Ion (136.0) 221208-PAHs-033.D



136.0, 68.0, 137.0

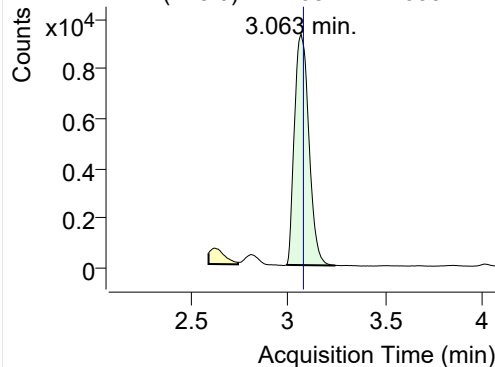


+ SIM (2.967-3.159 min, 35 scans) (**) 221208

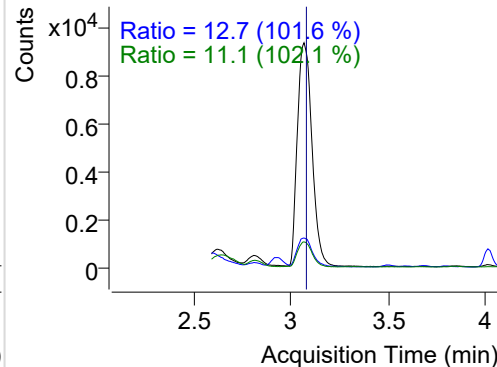


Naphthalene

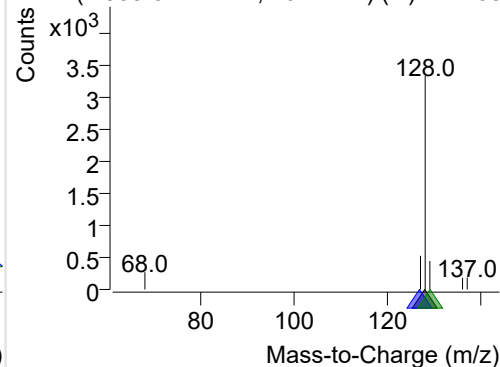
+ Selected Ion (128.0) 221208-PAHs-033.D



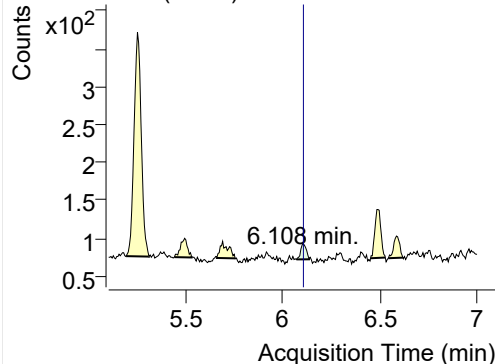
128.0, 127.0, 129.0



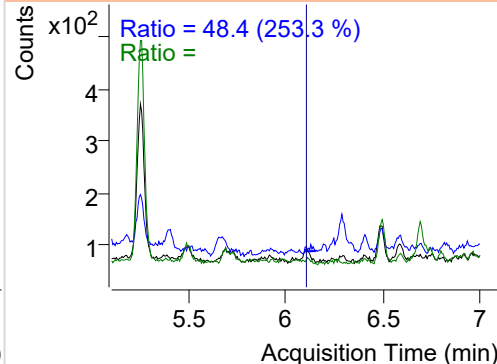
+ SIM (2.988-3.241 min, 46 scans) (**) 221208

**Acenaphthylene**

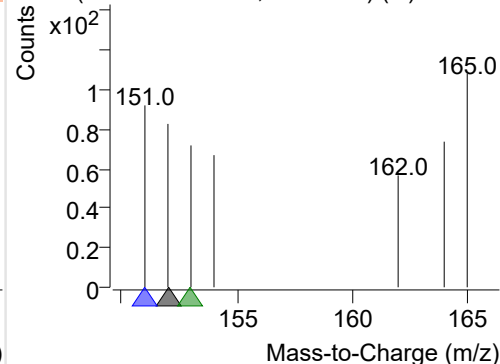
+ Selected Ion (152.0) 221208-PAHs-033.D



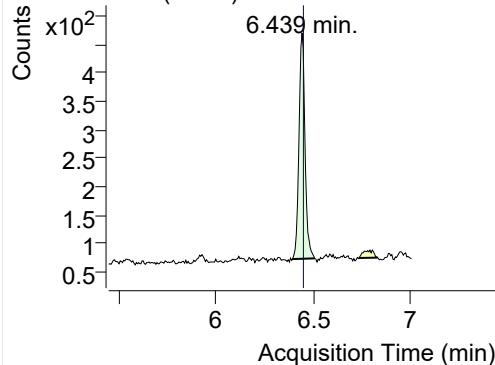
152.0, 151.0, 153.0



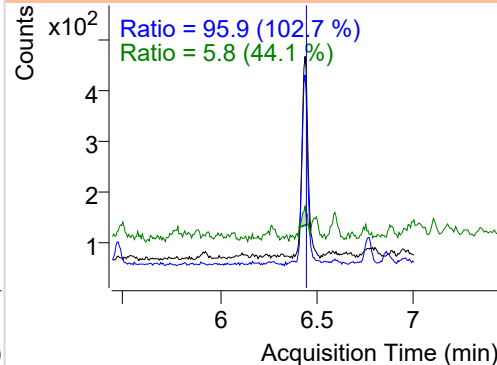
+ SIM (6.073-6.137 min, 11 scans) (**) 221208

**IS-D10-Acenaphthene**

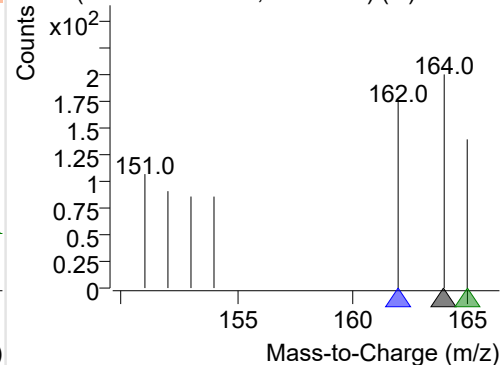
+ Selected Ion (164.0) 221208-PAHs-033.D



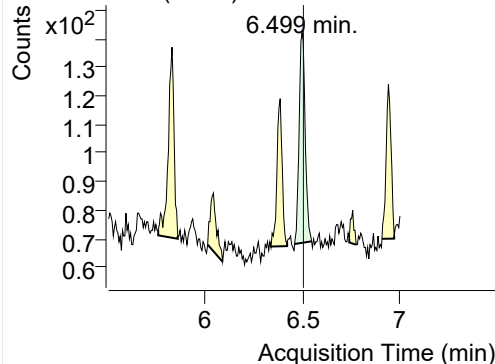
164.0, 162.0, 165.0



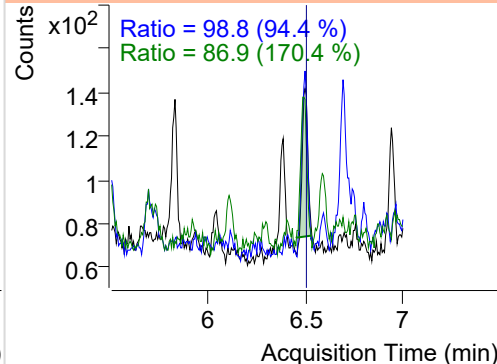
+ SIM (6.389-6.504 min, 19 scans) (**) 221208

**Acenaphthene**

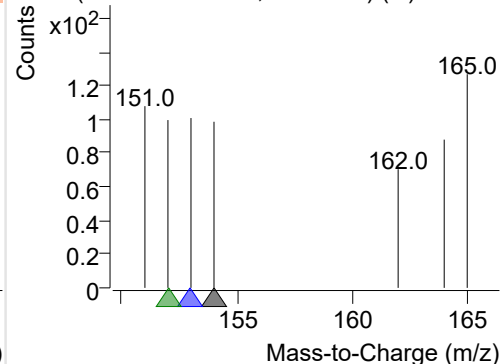
+ Selected Ion (154.0) 221208-PAHs-033.D



154.0, 153.0, 152.0

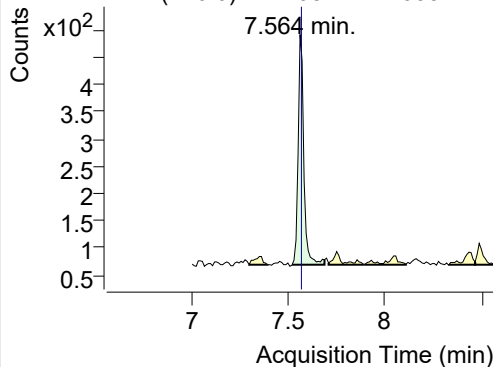


+ SIM (6.460-6.548 min, 15 scans) (**) 221208

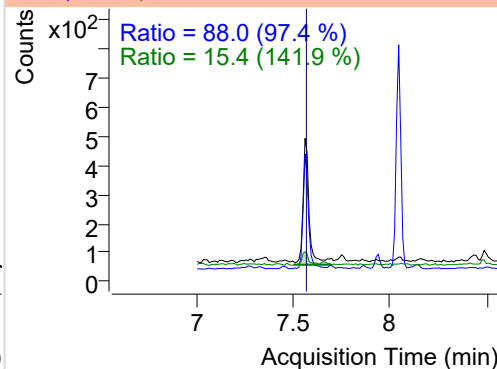


LSS-D10-Fluorene

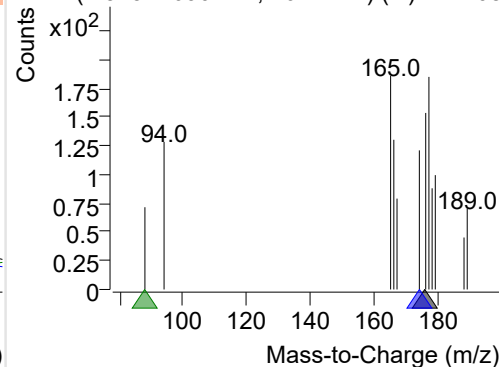
+ Selected Ion (176.0) 221208-PAHs-033.D



176.0, 174.0, 88.0

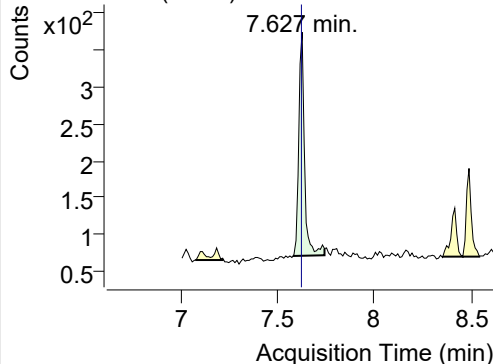


+ SIM (7.523-7.690 min, 16 scans) (**) 221208

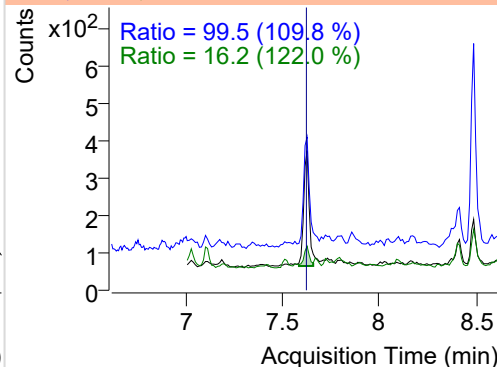


Fluorene

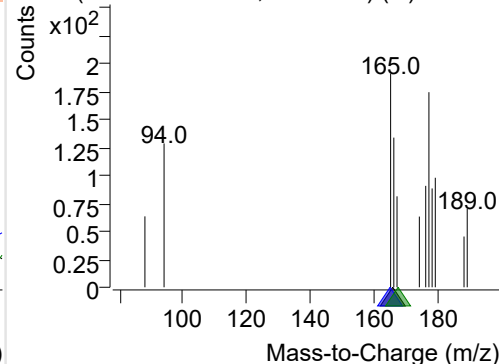
+ Selected Ion (166.0) 221208-PAHs-033.D



166.0, 165.0, 167.0

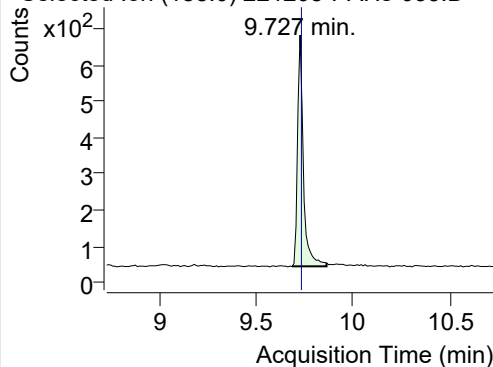


+ SIM (7.580-7.743 min, 16 scans) (**) 221208

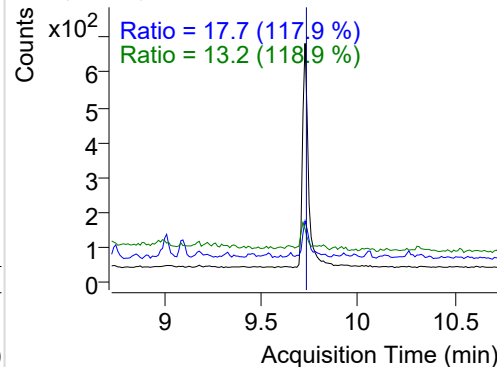


IS-D10-Phenanthrene

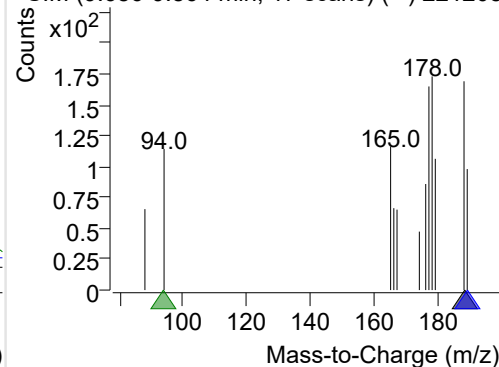
+ Selected Ion (188.0) 221208-PAHs-033.D



188.0, 189.0, 94.0

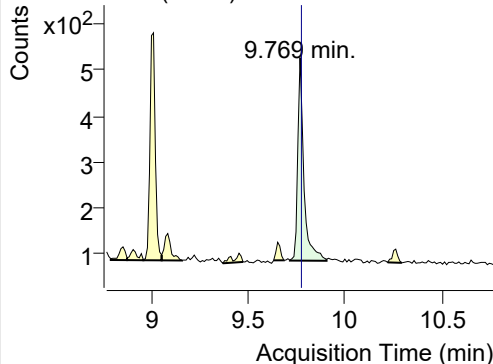


+ SIM (9.686-9.864 min, 17 scans) (**) 221208

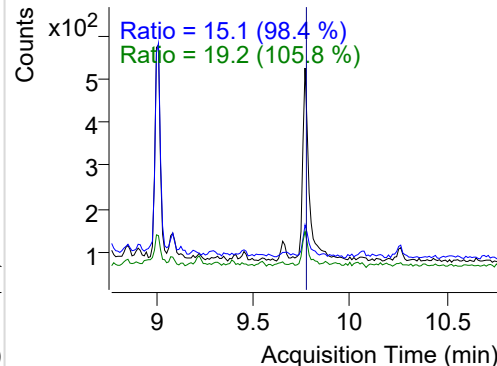


Phenanthrene

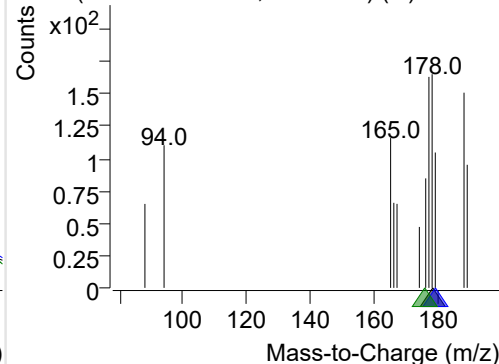
+ Selected Ion (178.0) 221208-PAHs-033.D



178.0, 179.0, 176.0

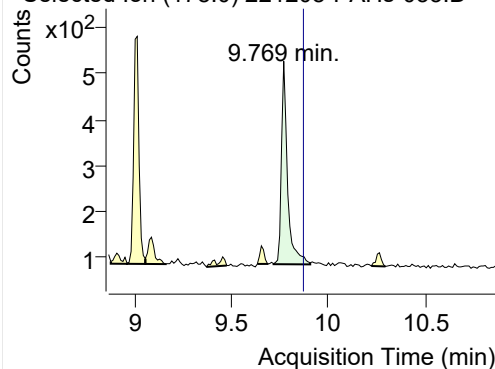


+ SIM (9.717-9.906 min, 19 scans) (**) 221208

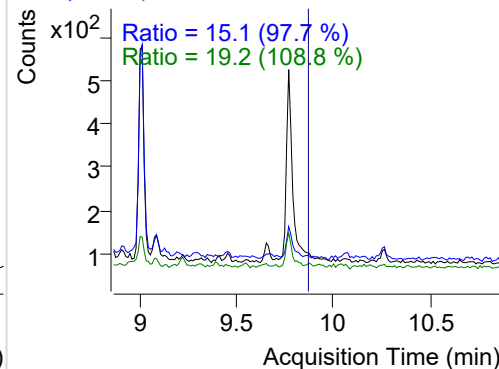


Anthracene

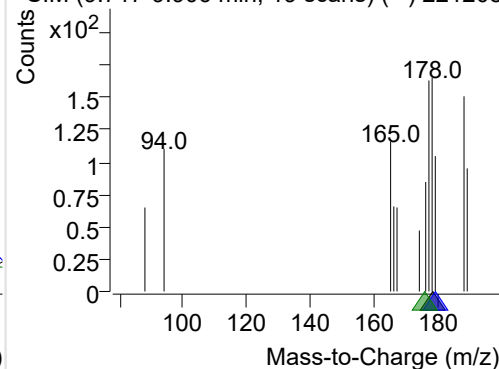
+ Selected Ion (178.0) 221208-PAHs-033.D



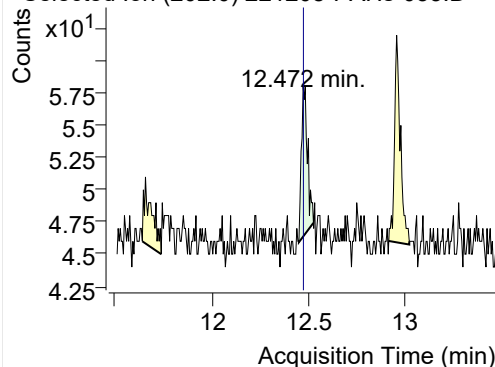
178.0, 179.0, 176.0



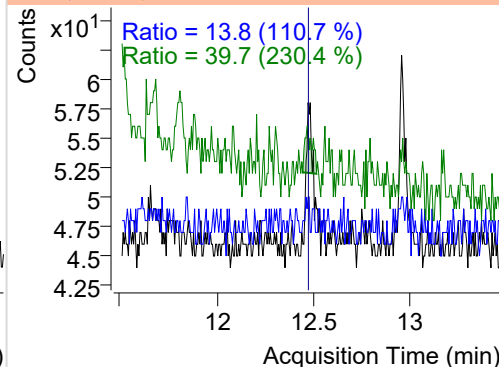
+ SIM (9.717-9.906 min, 19 scans) (**) 221208

**Fluoranthene**

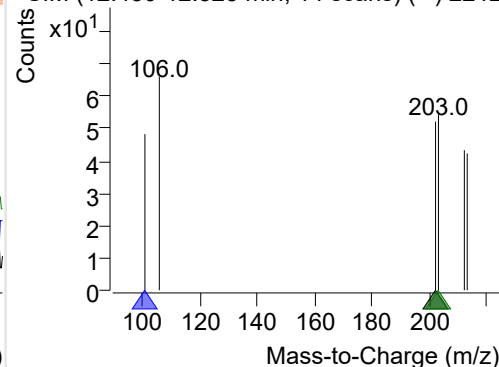
+ Selected Ion (202.0) 221208-PAHs-033.D



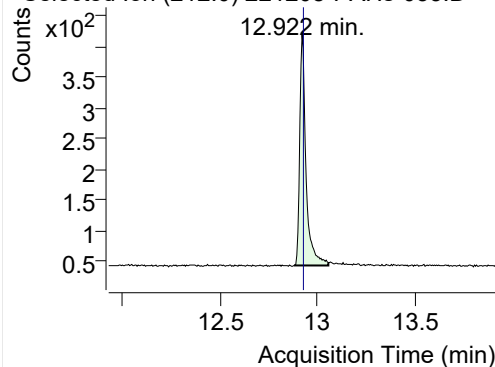
202.0, 101.0, 203.0



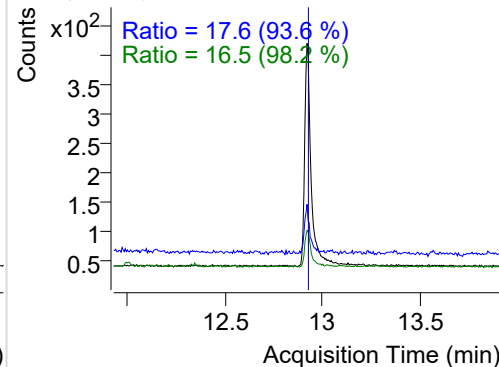
+ SIM (12.450-12.525 min, 14 scans) (**) 2212

**LSS-D10-Pyrene**

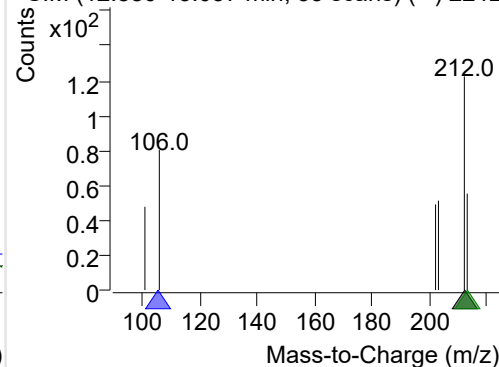
+ Selected Ion (212.0) 221208-PAHs-033.D



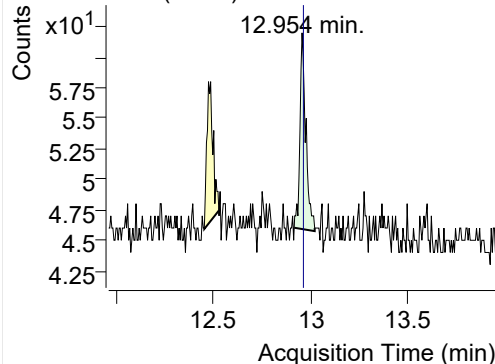
212.0, 106.0, 213.0



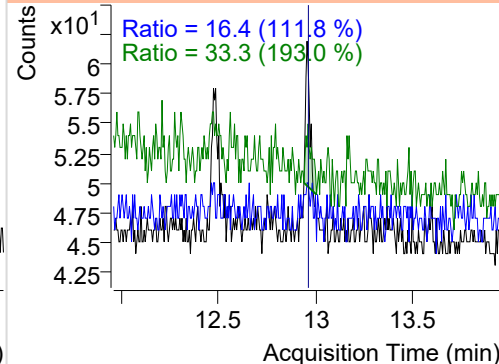
+ SIM (12.880-13.057 min, 33 scans) (**) 2212

**Pyrene**

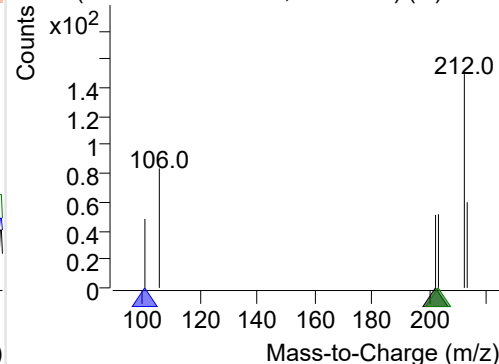
+ Selected Ion (202.0) 221208-PAHs-033.D



202.0, 101.0, 203.0



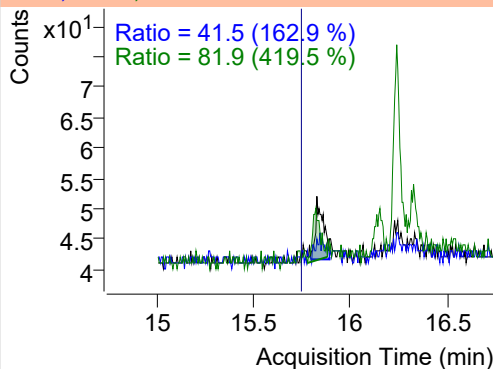
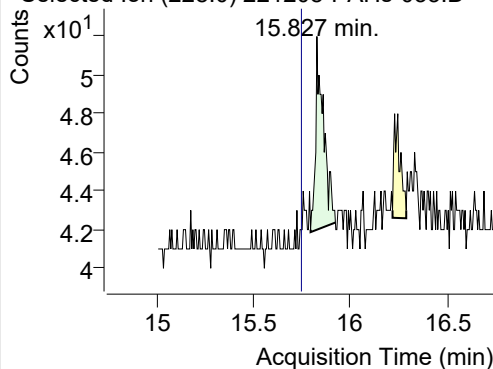
+ SIM (12.914-13.019 min, 20 scans) (**) 2212



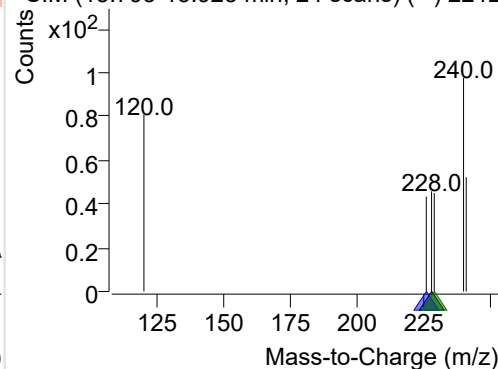
Benz(a)anthracene

+ Selected Ion (228.0) 221208-PAHs-033.D

228.0, 226.0, 229.0

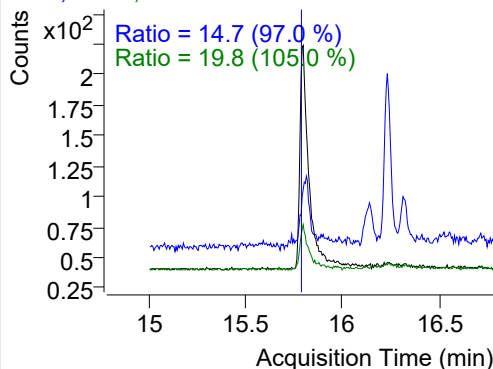
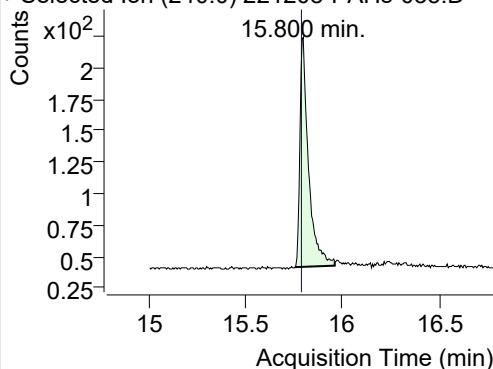


+ SIM (15.795-15.923 min, 24 scans) (**) 2212

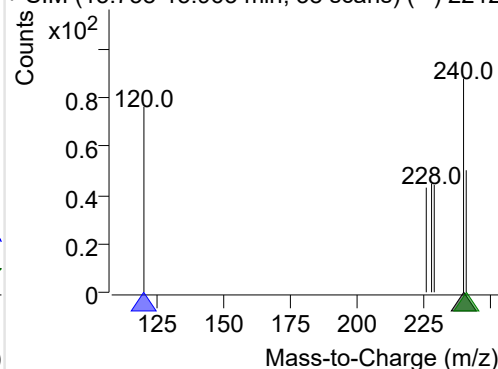
**IS-D12-Chrysene**

+ Selected Ion (240.0) 221208-PAHs-033.D

240.0, 120.0, 241.0

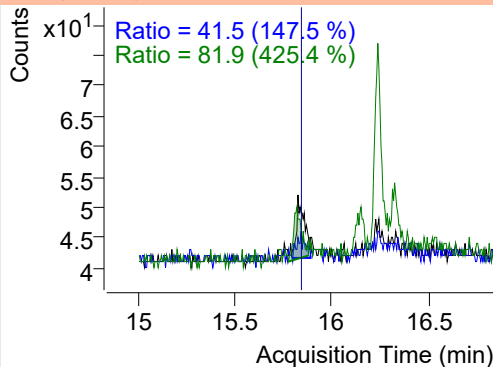
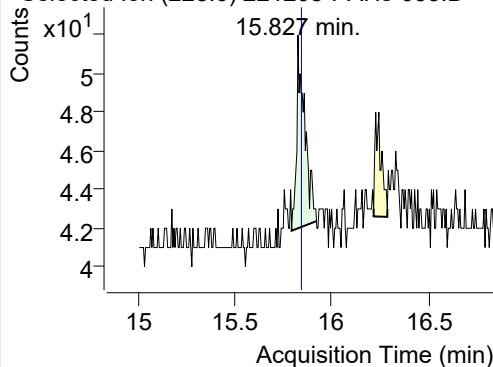


+ SIM (15.758-15.963 min, 38 scans) (**) 2212

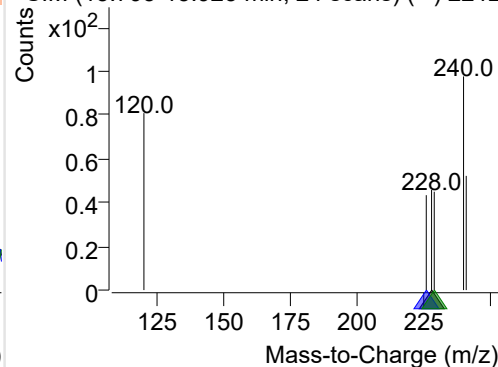
**Chrysene**

+ Selected Ion (228.0) 221208-PAHs-033.D

228.0, 226.0, 229.0

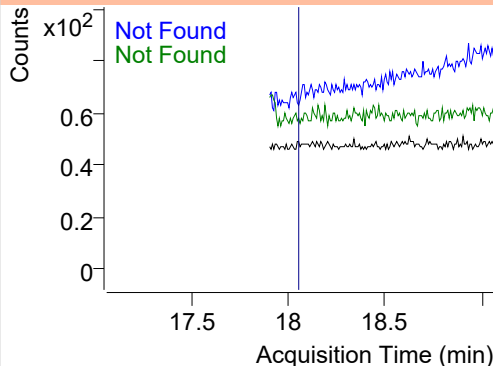
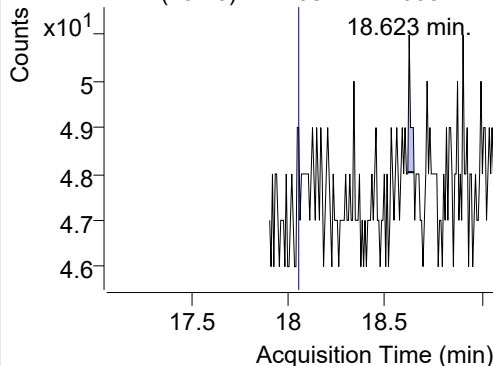


+ SIM (15.795-15.923 min, 24 scans) (**) 2212

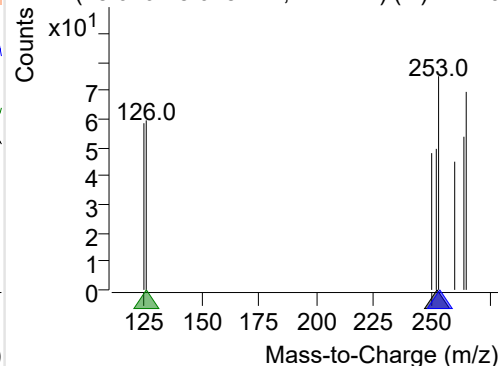
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 221208-PAHs-033.D

252.0, 253.0, 126.0



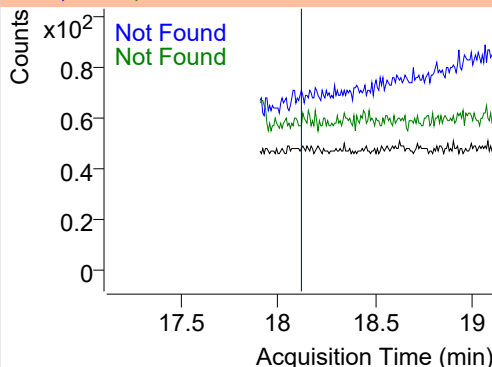
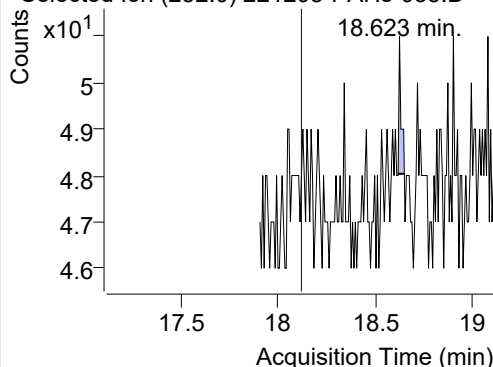
+ SIM (18.616-18.648 min, 4 scans) (**) 22120



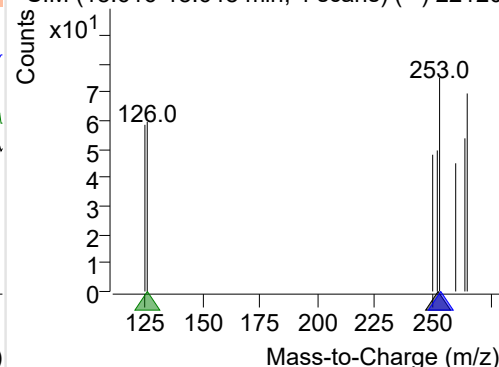
Benzo(k)fluoranthene

+ Selected Ion (252.0) 221208-PAHs-033.D

252.0, 253.0, 126.0

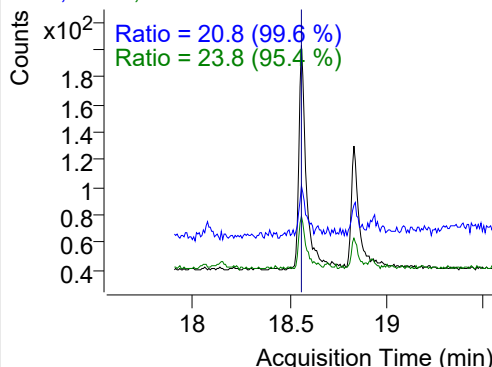
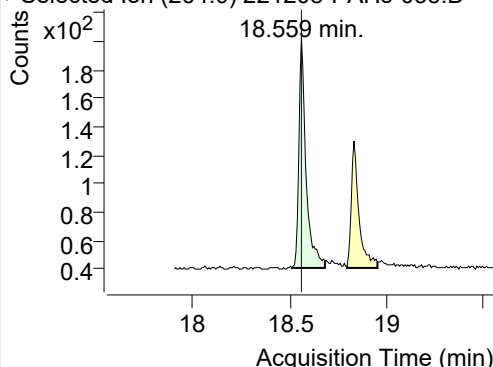


+ SIM (18.616-18.648 min, 4 scans) (**) 22120

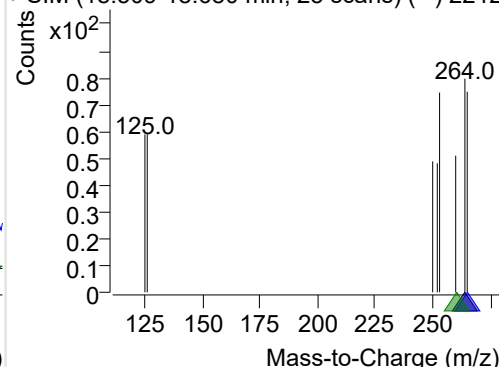
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 221208-PAHs-033.D

264.0, 265.0, 260.0

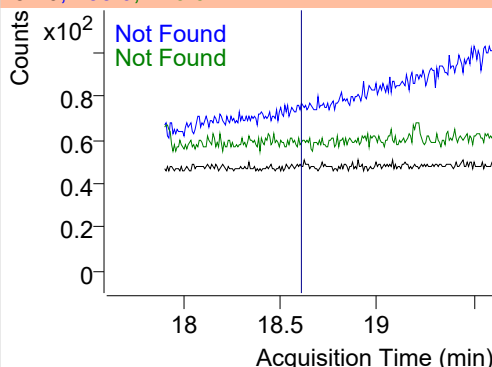
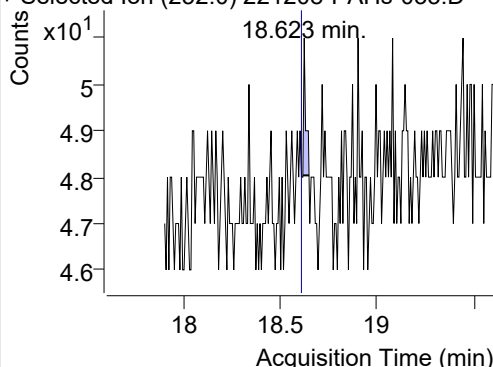


+ SIM (18.509-18.680 min, 25 scans) (**) 2212

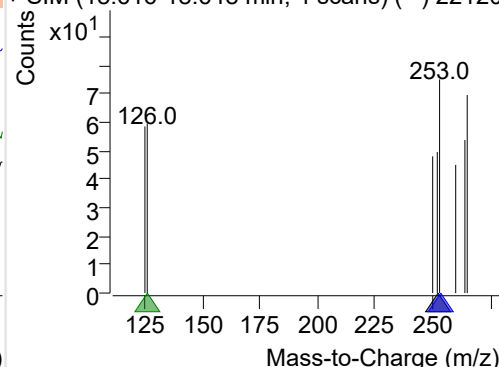
**Benzo(e)pyrene**

+ Selected Ion (252.0) 221208-PAHs-033.D

252.0, 253.0, 126.0

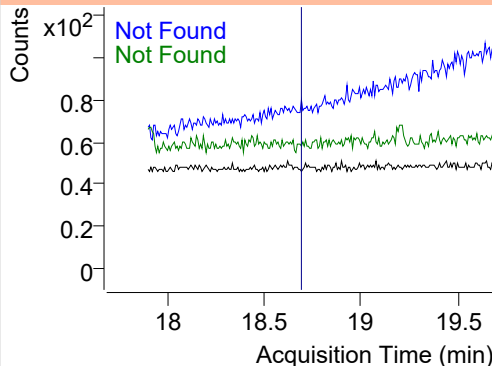
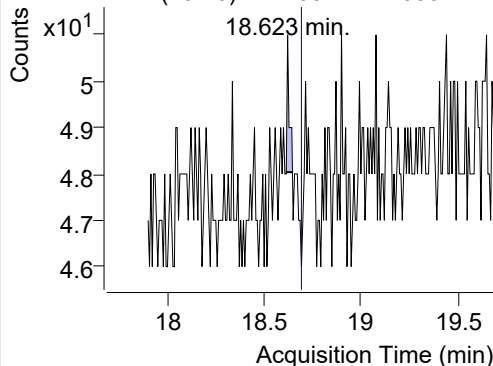


+ SIM (18.616-18.648 min, 4 scans) (**) 22120

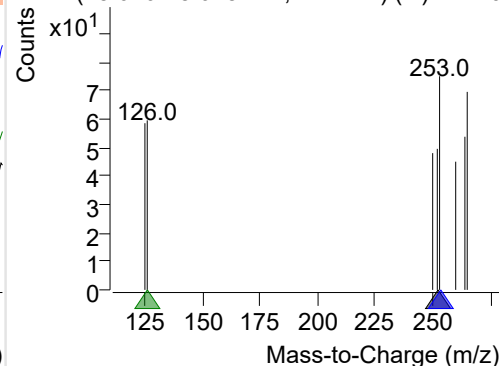
**Benzo(a)pyrene**

+ Selected Ion (252.0) 221208-PAHs-033.D

252.0, 253.0, 126.0

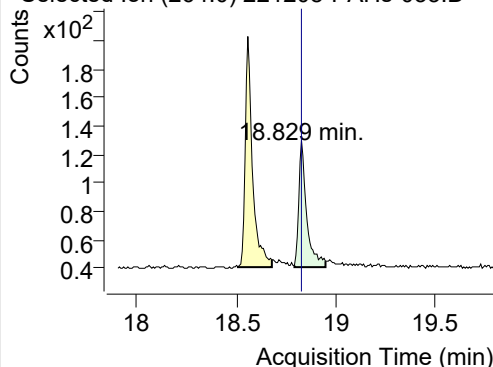


+ SIM (18.616-18.648 min, 4 scans) (**) 22120

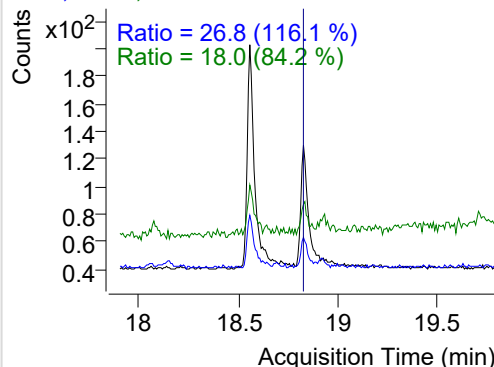


IS-D12-Perylene

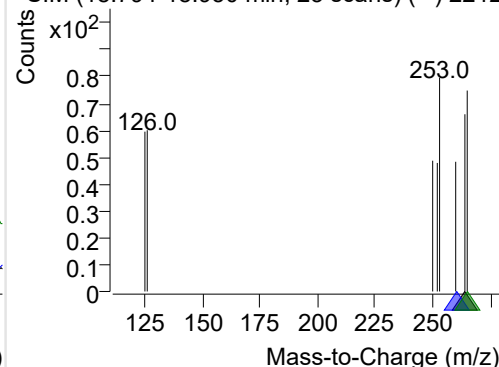
+ Selected Ion (264.0) 221208-PAHs-033.D



264.0, 260.0, 265.0

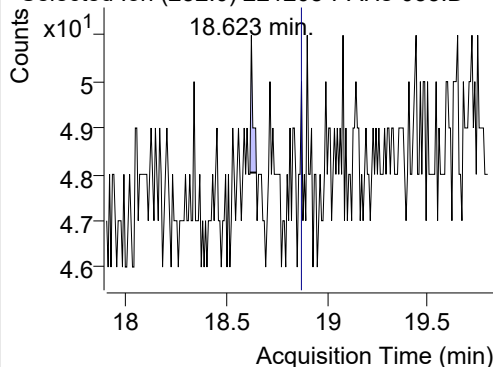


+ SIM (18.794-18.950 min, 23 scans) (**) 2212

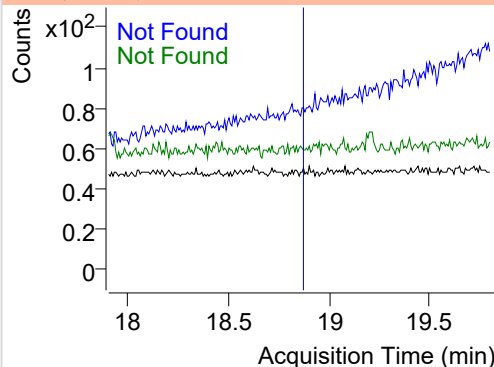


Perylene

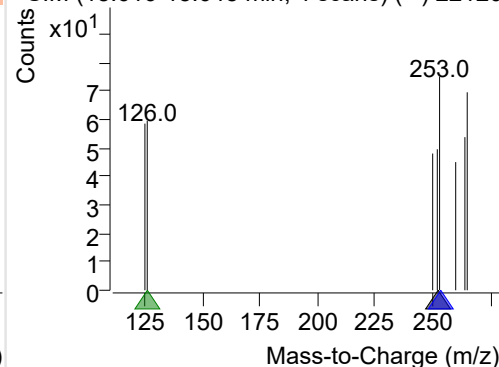
+ Selected Ion (252.0) 221208-PAHs-033.D



252.0, 253.0, 126.0

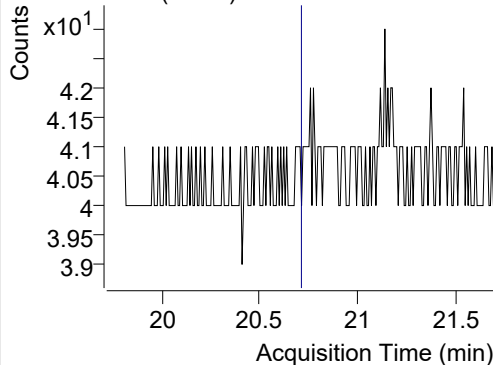


+ SIM (18.616-18.648 min, 4 scans) (**) 22120

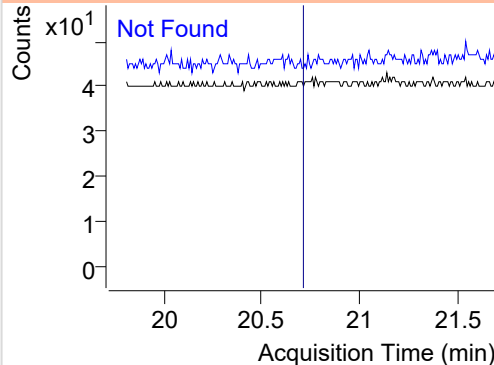


Indeno(1,2,3-c,d)pyrene

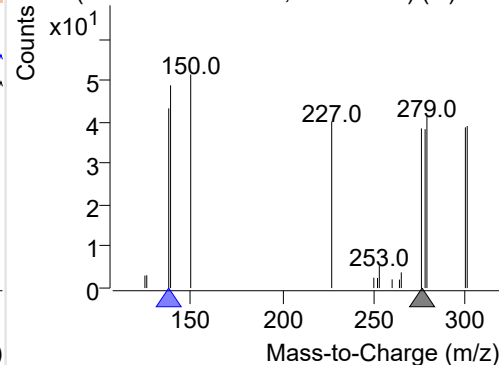
+ Selected Ion (276.0) 221208-PAHs-033.D



276.0, 138.0

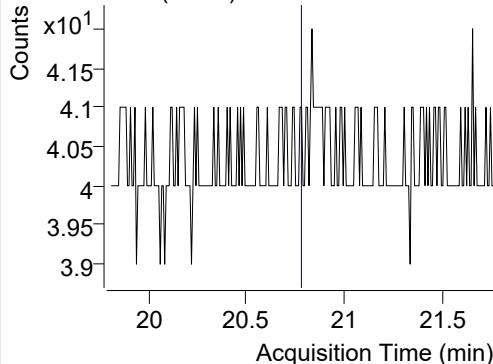


+ SIM (19.705-21.705 min, 262 scans) (**) 221

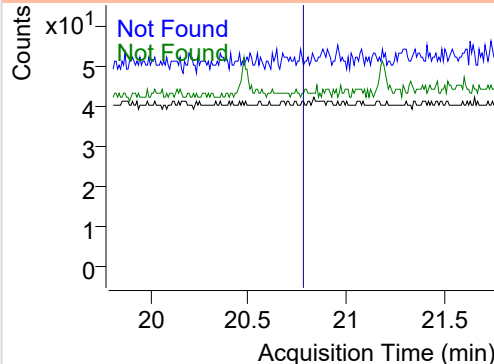


Dibenz(a,h)anthracene

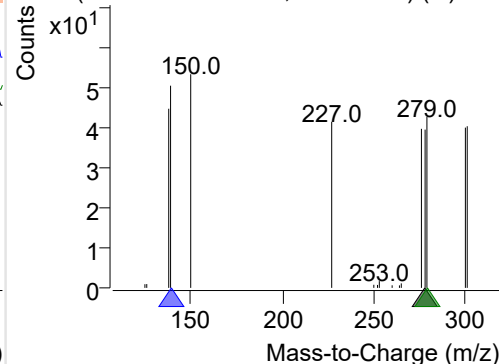
+ Selected Ion (278.0) 221208-PAHs-033.D



278.0, 139.0, 279.0



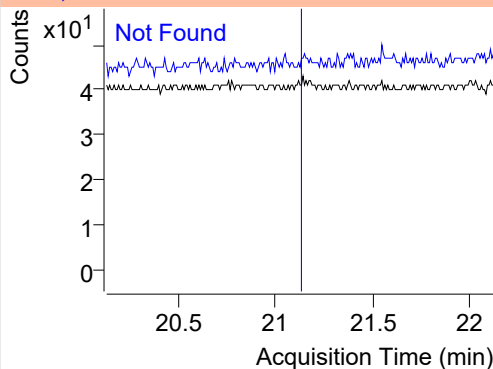
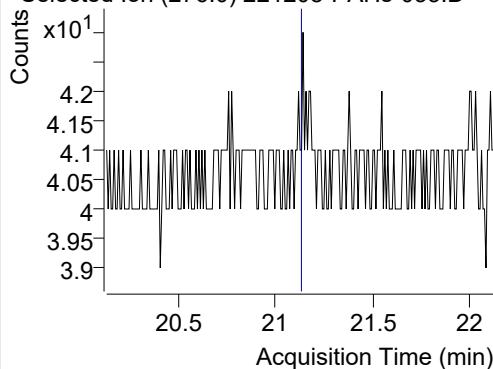
+ SIM (19.774-21.774 min, 262 scans) (**) 221



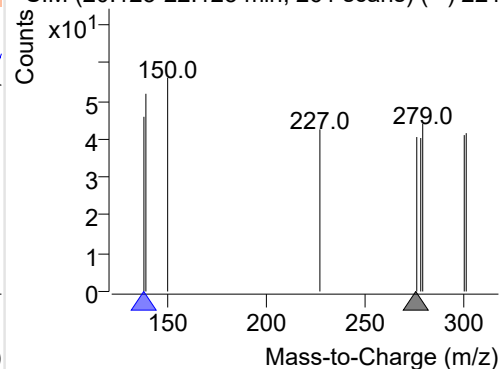
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 221208-PAHs-033.D

276.0, 138.0

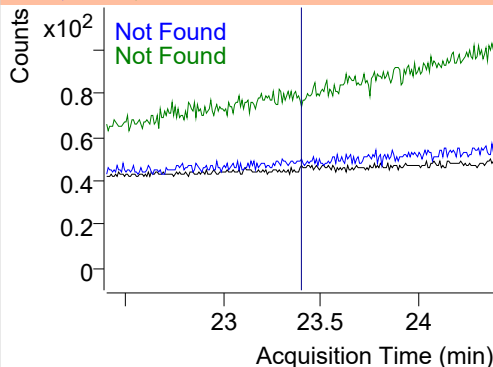
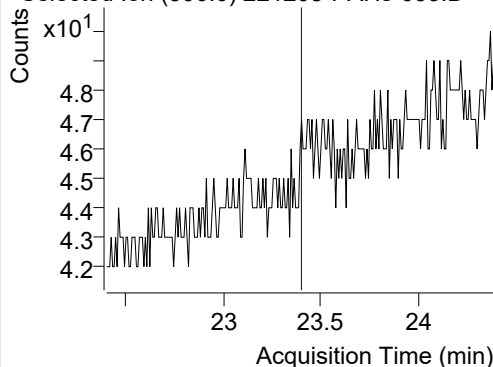


+ SIM (20.125-22.125 min, 261 scans) (**) 221

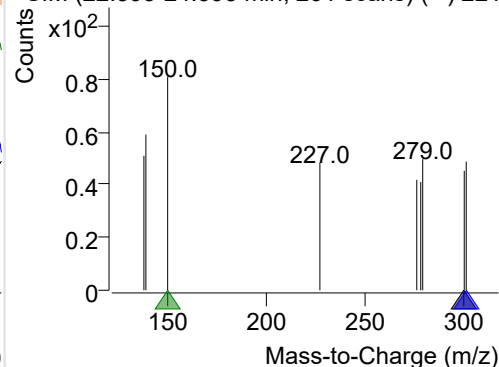
**Coronene**

+ Selected Ion (300.0) 221208-PAHs-033.D

300.0, 301.0, 150.0



+ SIM (22.393-24.393 min, 261 scans) (**) 221



Quantitative Analysis Sample Based Report

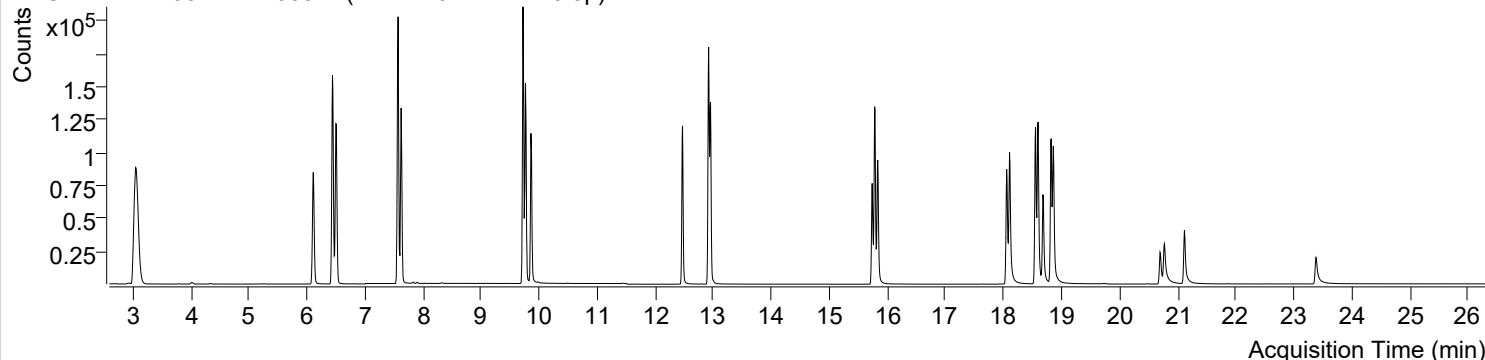


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\221208-PAHs Sample\QuantResults\221208-PAHs-Quant-1.batch.bin		
Analysis Time Stamp	2023-01-13 오후 4:28:02	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2023-01-13 오후 4:29:47	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-12-12 오전 11:35:22	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-12-09 오전 11:14:22	Data File	221208-PAHs-035.D
Type	Sample	Name	PAHs-19mix-STD-0.5p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

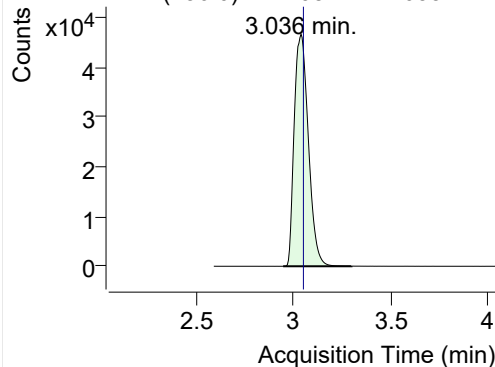
+ TIC SIM 221208-PAHs-035.D (PAHs-19mix-STD-0.5p)



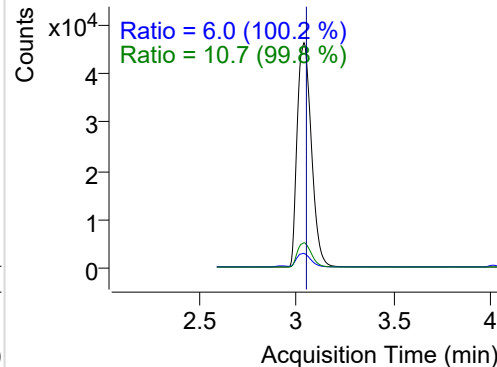
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	3.036	136.0	235596	46502.47	ND ng/ml	10.7
Naphthalene	3.058	128.0	155522	30815.33	ND ng/ml	12.4
Acenaphthylene	6.102	152.0	135418	63719.97	ND ng/ml	18.9
IS-D10-Acenaphthene	6.433	164.0	148316	76657.99	ND ng/ml	93.0
Acenaphthene	6.499	154.0	89738	44725.35	ND ng/ml	104.2
LSS-D10-Fluorene	7.564	176.0	157942	94250.11	ND ng/ml	90.0
Fluorene	7.617	166.0	109539	64301.45	ND ng/ml	90.4
IS-D10-Phenanthrene	9.717	188.0	262125	166865.35	ND ng/ml	15.0
Phenanthrene	9.759	178.0	160115	97126.86	ND ng/ml	18.4
Anthracene	9.853	178.0	131751	74928.49	ND ng/ml	17.7
Fluoranthene	12.467	202.0	148606	92908.83	ND ng/ml	17.1
LSS-D10-Pyrene	12.917	212.0	207180	131597.50	ND ng/ml	18.8
Pyrene	12.949	202.0	168451	100772.28	ND ng/ml	17.8
Benz(a)anthracene	15.735	228.0	94273	52770.94	ND ng/ml	25.4
IS-D12-Chrysene	15.779	240.0	174371	95954.60	ND ng/ml	18.7
Chrysene	15.833	228.0	117686	61506.78	ND ng/ml	28.0
Benzo(b)fluoranthene	18.053	252.0	95549	50921.85	ND ng/ml	21.4
Benzo(k)fluoranthene	18.103	252.0	130527	58190.36	ND ng/ml	21.8
SS-D12-Benzo(e)pyrene	18.552	264.0	155744	80608.00	ND ng/ml	24.9
Benzo(e)pyrene	18.594	252.0	123796	64234.00	ND ng/ml	21.5
Benzo(a)pyrene	18.680	252.0	80211	37830.82	ND ng/ml	20.8
IS-D12-Perylene	18.822	264.0	151303	73278.41	ND ng/ml	23.2
Perylene	18.858	252.0	107898	50445.22	ND ng/ml	21.5
Indeno(1,2,3-c,d)pyrene	20.698	276.0	43347	18592.46	ND ng/ml	22.5
Dibenz(a,h)anthracene	20.774	278.0	47267	15562.29	ND ng/ml	23.4
Benzo(g,h,i)perylene	21.118	276.0	79063	31452.89	ND ng/ml	23.6
Coronene	23.386	300.0	45885	12637.47	ND ng/ml	29.9

IS-D8-Naphthalene

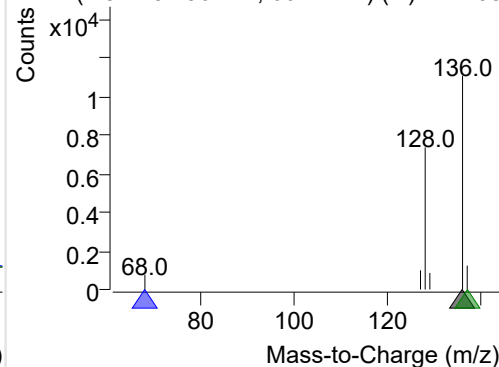
+ Selected Ion (136.0) 221208-PAHs-035.D



136.0, 68.0, 137.0

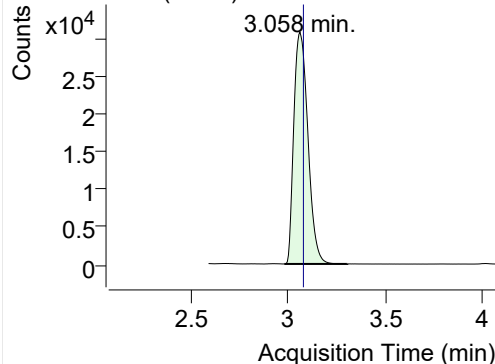


+ SIM (2.944-3.296 min, 66 scans) (**) 221208

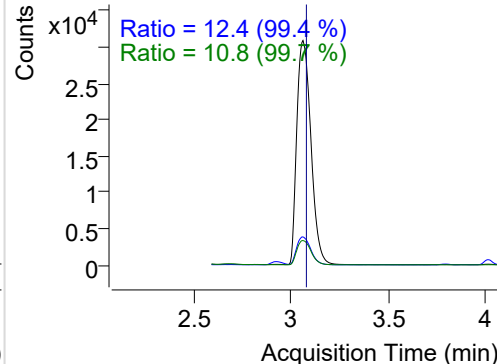


Naphthalene

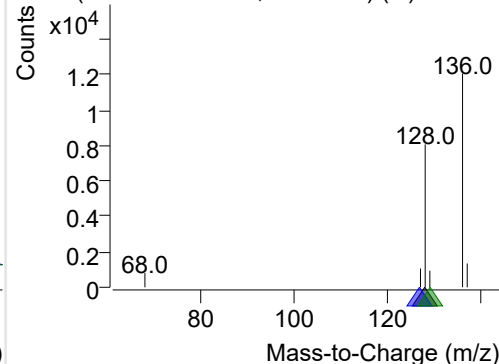
+ Selected Ion (128.0) 221208-PAHs-035.D



128.0, 127.0, 129.0

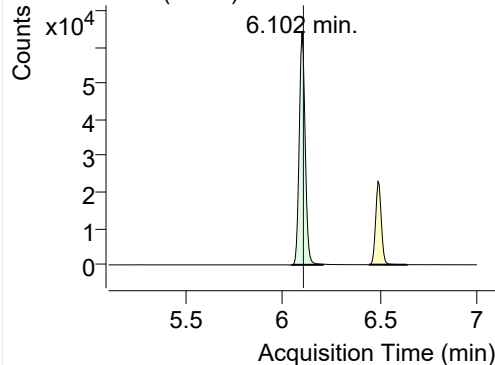


+ SIM (2.978-3.302 min, 60 scans) (**) 221208

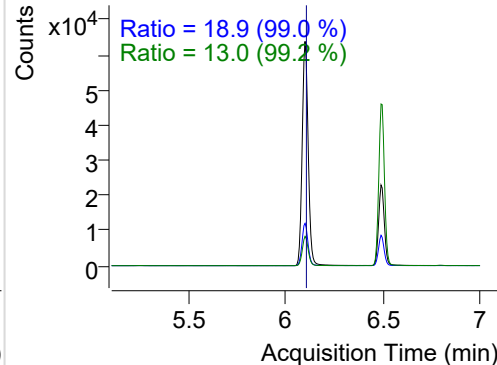


Acenaphthylene

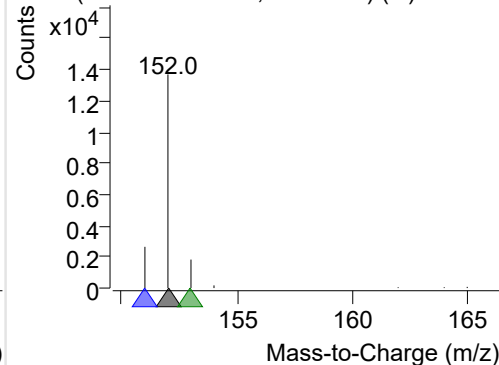
+ Selected Ion (152.0) 221208-PAHs-035.D



152.0, 151.0, 153.0

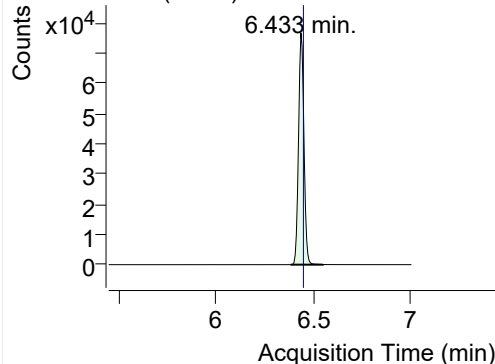


+ SIM (6.049-6.209 min, 28 scans) (**) 221208

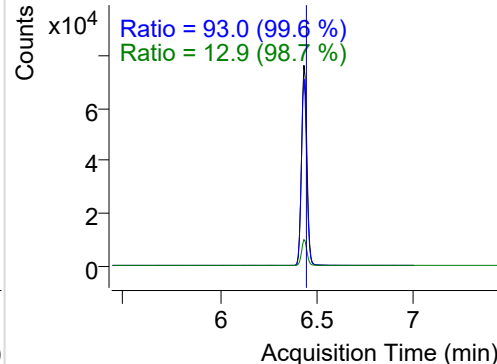


IS-D10-Acenaphthene

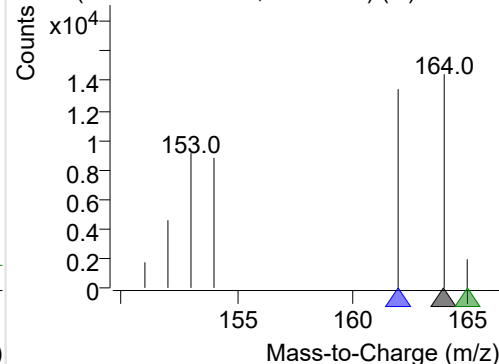
+ Selected Ion (164.0) 221208-PAHs-035.D



164.0, 162.0, 165.0

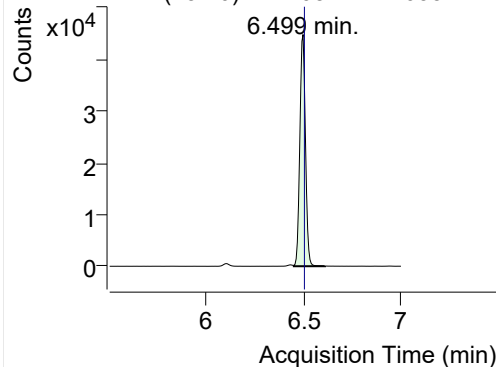


+ SIM (6.380-6.546 min, 29 scans) (**) 221208

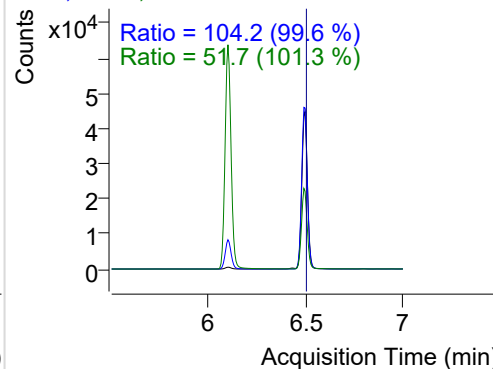


Acenaphthene

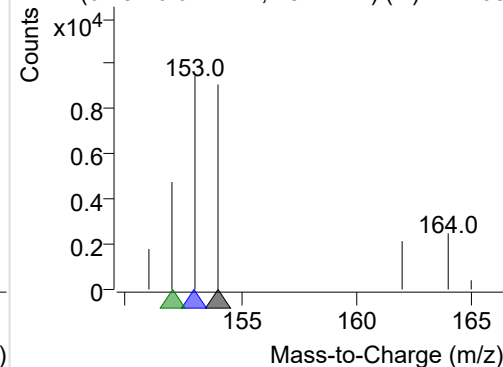
+ Selected Ion (154.0) 221208-PAHs-035.D



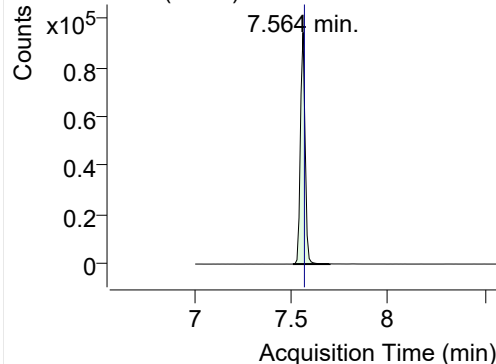
154.0, 153.0, 152.0



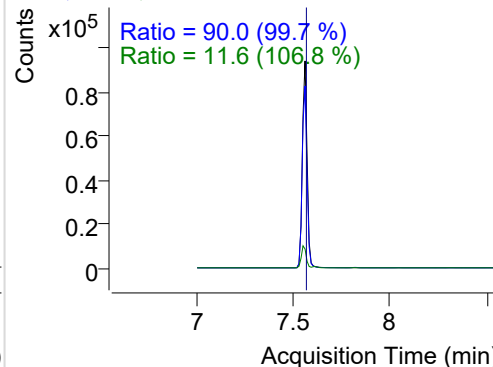
+ SIM (6.451-6.611 min, 28 scans) (**) 221208

**LSS-D10-Fluorene**

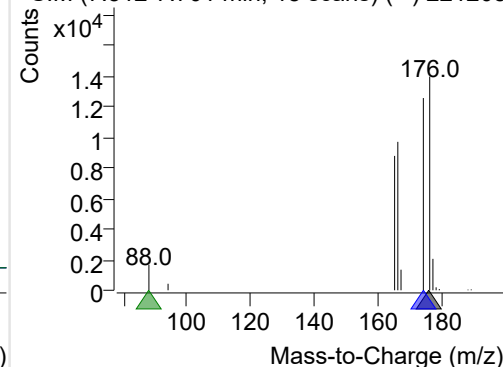
+ Selected Ion (176.0) 221208-PAHs-035.D



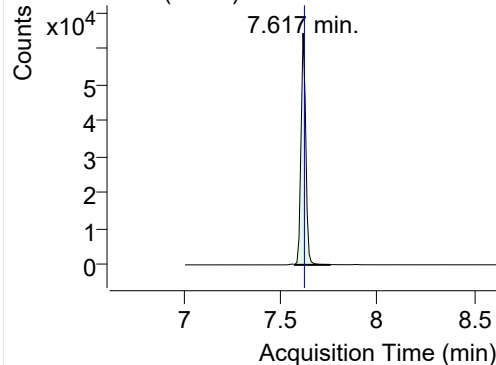
176.0, 174.0, 88.0



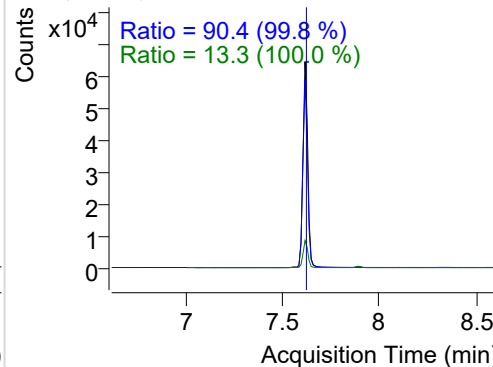
+ SIM (7.512-7.701 min, 18 scans) (**) 221208

**Fluorene**

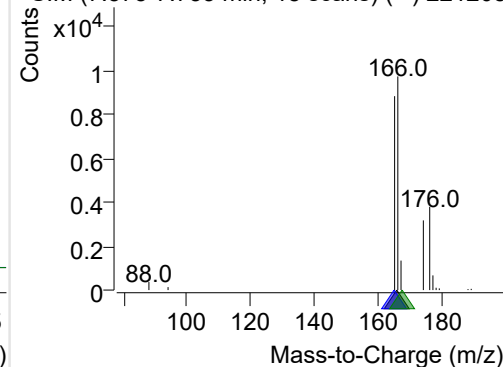
+ Selected Ion (166.0) 221208-PAHs-035.D



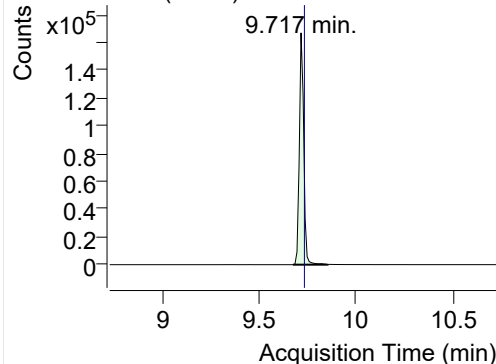
166.0, 165.0, 167.0



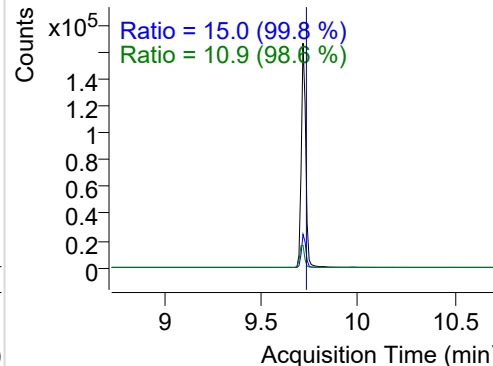
+ SIM (7.575-7.753 min, 18 scans) (**) 221208

**IS-D10-Phenanthrene**

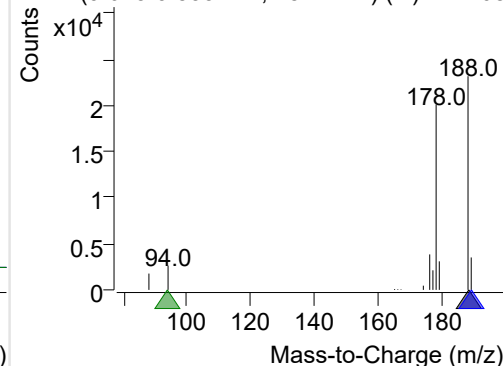
+ Selected Ion (188.0) 221208-PAHs-035.D



188.0, 189.0, 94.0

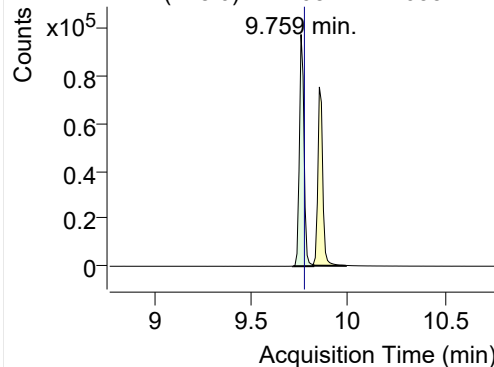


+ SIM (9.675-9.853 min, 18 scans) (**) 221208

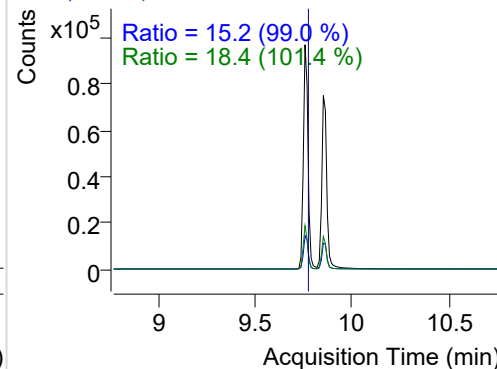


Phenanthrene

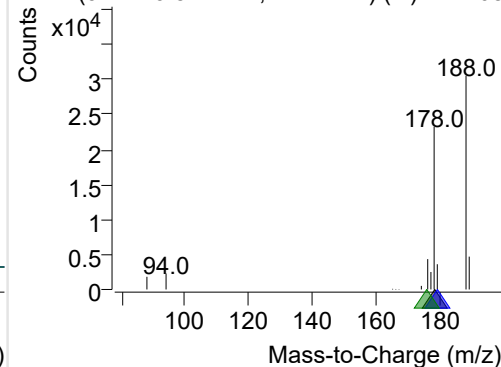
+ Selected Ion (178.0) 221208-PAHs-035.D



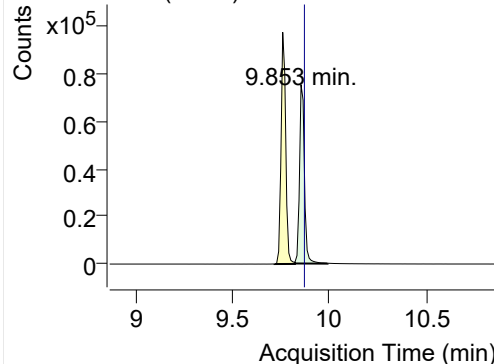
178.0, 179.0, 176.0



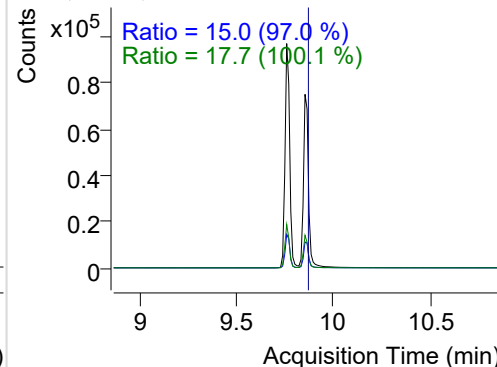
+ SIM (9.717-9.822 min, 11 scans) (**) 221208

**Anthracene**

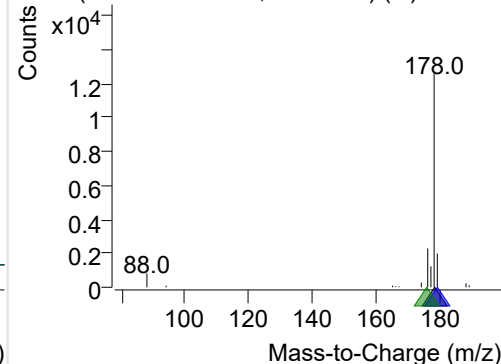
+ Selected Ion (178.0) 221208-PAHs-035.D



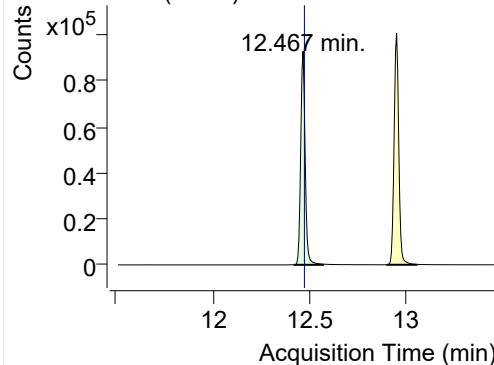
178.0, 179.0, 176.0



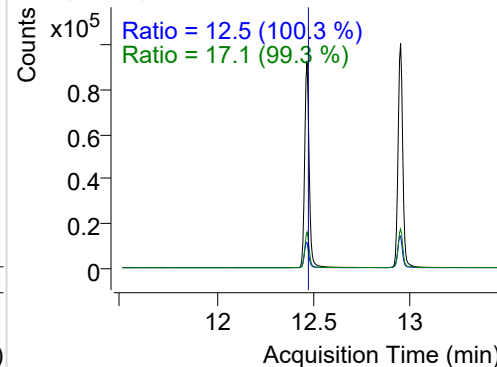
+ SIM (9.822-9.990 min, 17 scans) (**) 221208

**Fluoranthene**

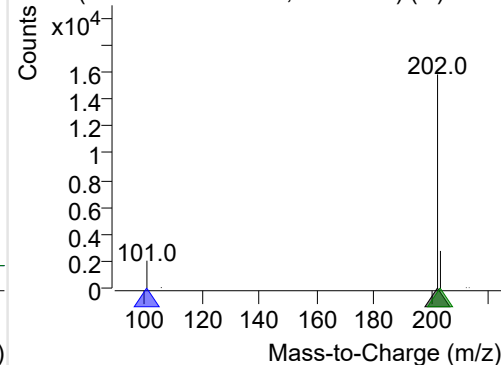
+ Selected Ion (202.0) 221208-PAHs-035.D



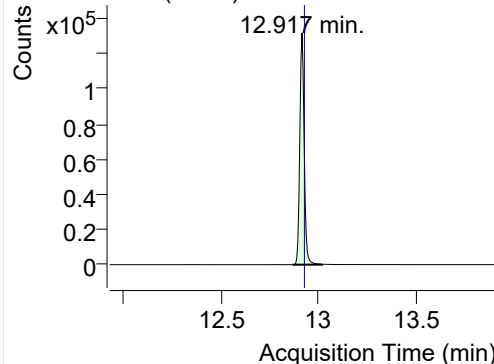
202.0, 101.0, 203.0



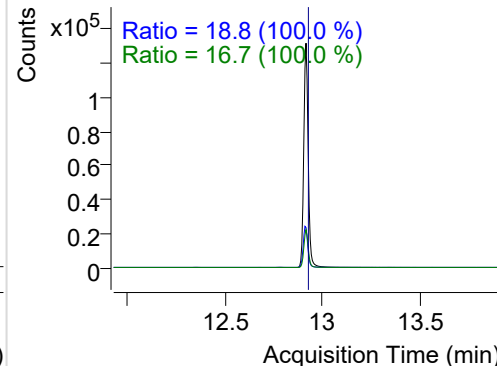
+ SIM (12.418-12.570 min, 29 scans) (**) 2212

**LSS-D10-Pyrene**

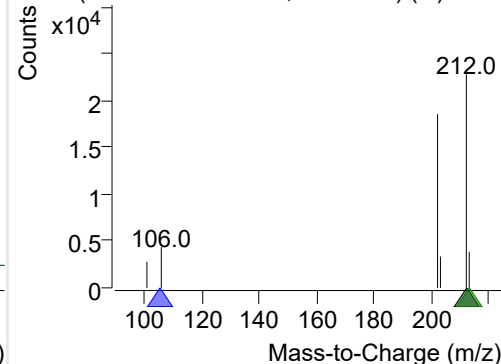
+ Selected Ion (212.0) 221208-PAHs-035.D



212.0, 106.0, 213.0

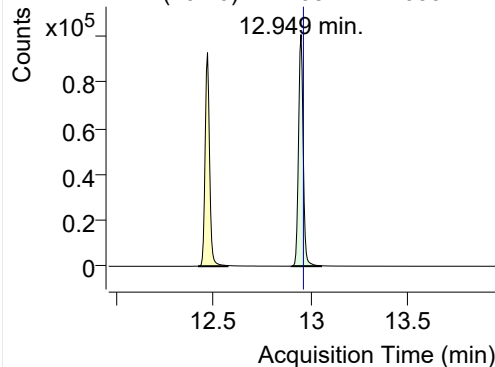


+ SIM (12.868-13.020 min, 28 scans) (**) 2212

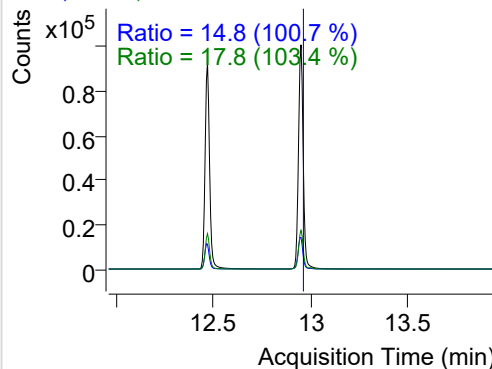


Pyrene

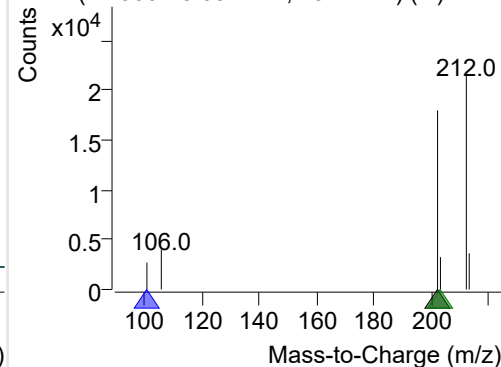
+ Selected Ion (202.0) 221208-PAHs-035.D



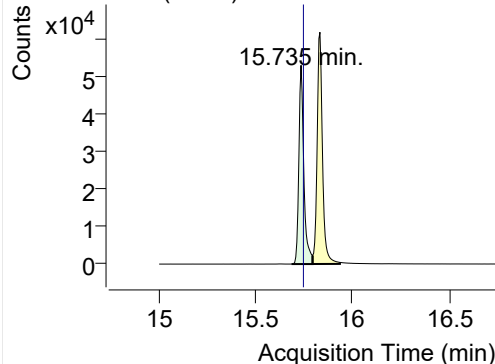
202.0, 101.0, 203.0



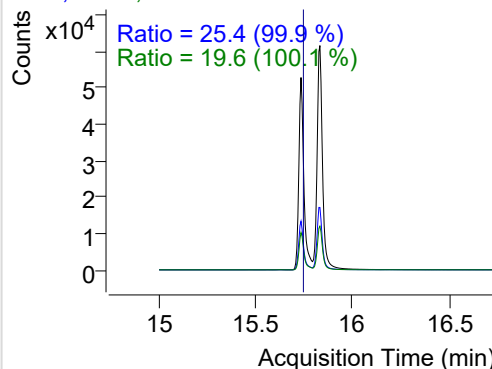
+ SIM (12.900-13.052 min, 29 scans) (**) 2212

**Benz(a)anthracene**

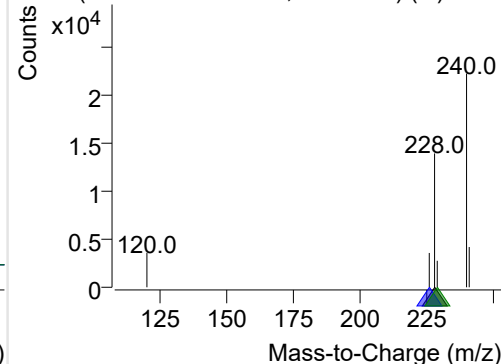
+ Selected Ion (228.0) 221208-PAHs-035.D



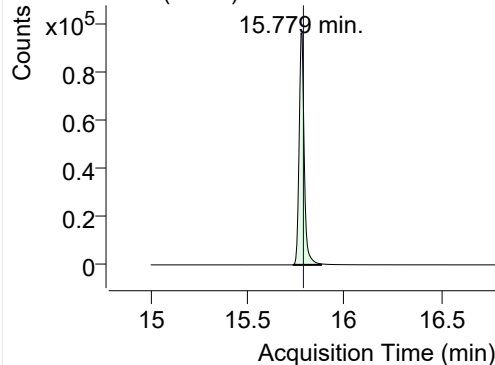
228.0, 226.0, 229.0



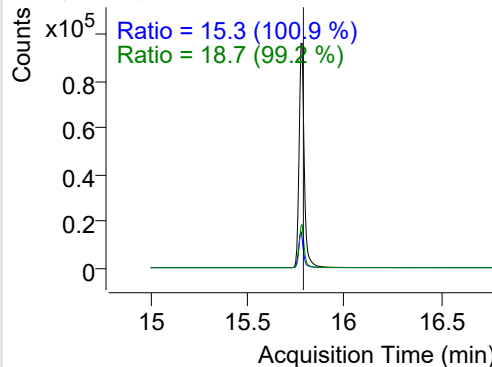
+ SIM (15.686-15.795 min, 21 scans) (**) 2212

**IS-D12-Chrysene**

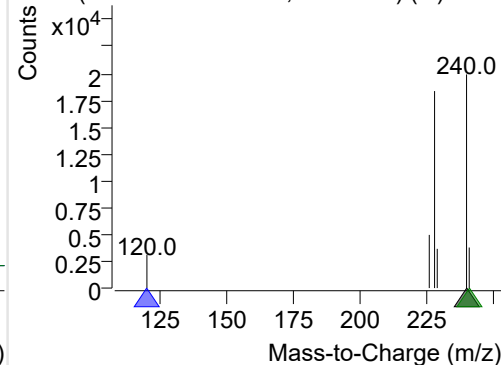
+ Selected Ion (240.0) 221208-PAHs-035.D



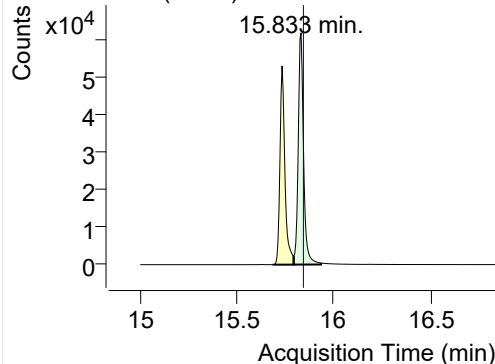
240.0, 120.0, 241.0



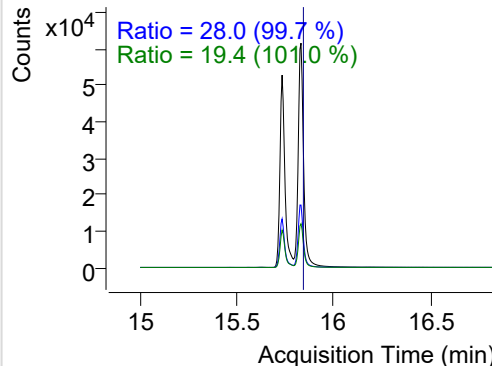
+ SIM (15.741-15.882 min, 27 scans) (**) 2212

**Chrysene**

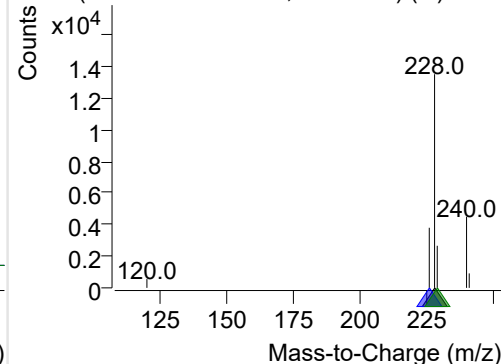
+ Selected Ion (228.0) 221208-PAHs-035.D



228.0, 226.0, 229.0

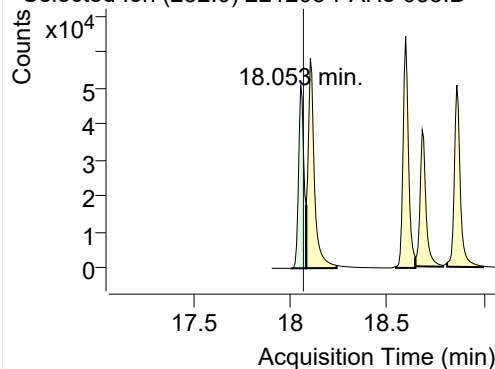


+ SIM (15.795-15.936 min, 27 scans) (**) 2212

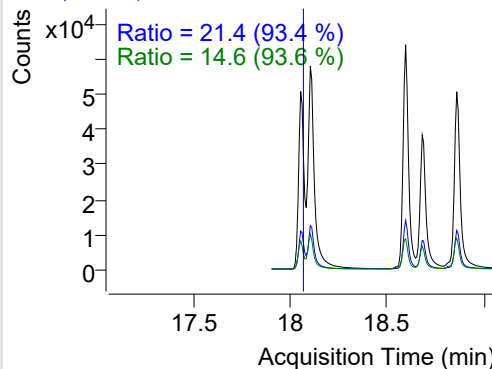


Benzo(b)fluoranthene

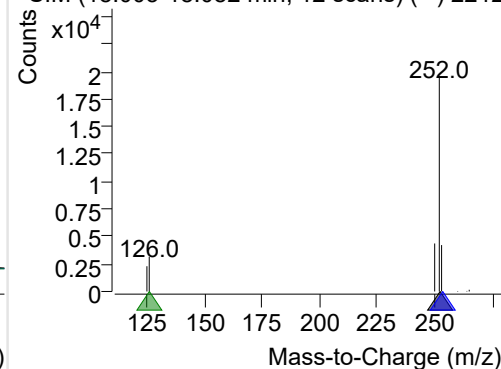
+ Selected Ion (252.0) 221208-PAHs-035.D



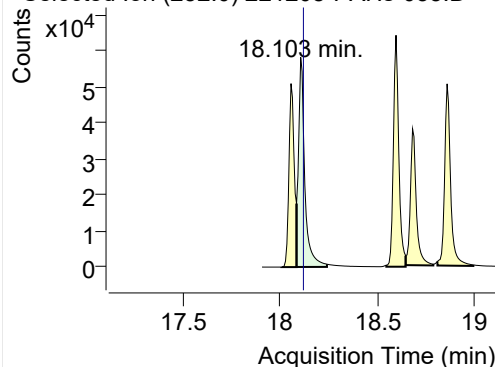
252.0, 253.0, 126.0



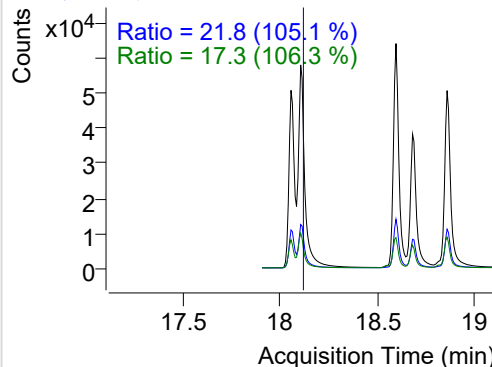
+ SIM (18.003-18.082 min, 12 scans) (**) 2212

**Benzo(k)fluoranthene**

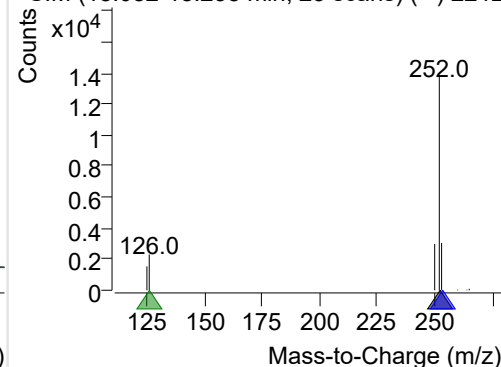
+ Selected Ion (252.0) 221208-PAHs-035.D



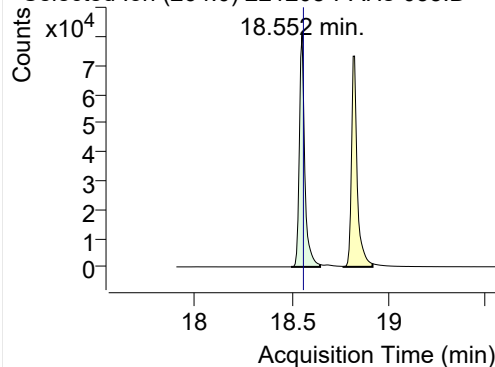
252.0, 253.0, 126.0



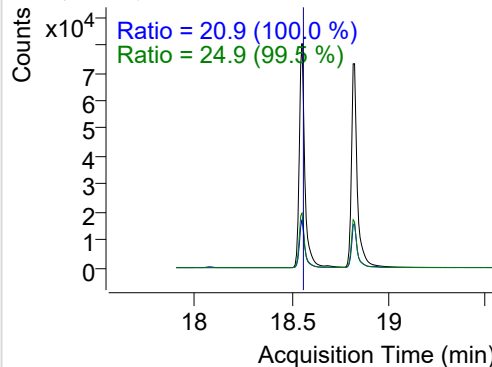
+ SIM (18.082-18.238 min, 23 scans) (**) 2212

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

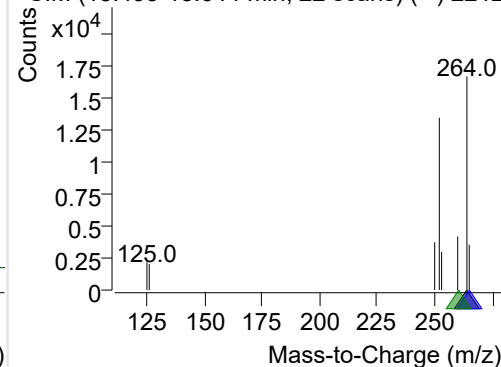
+ Selected Ion (264.0) 221208-PAHs-035.D



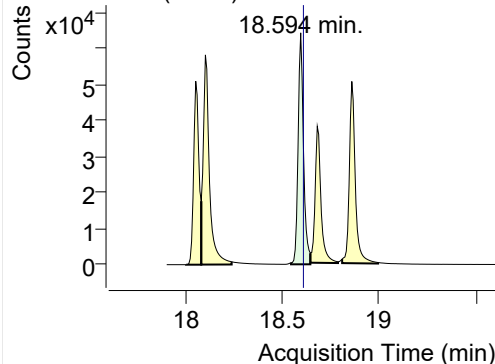
264.0, 265.0, 260.0



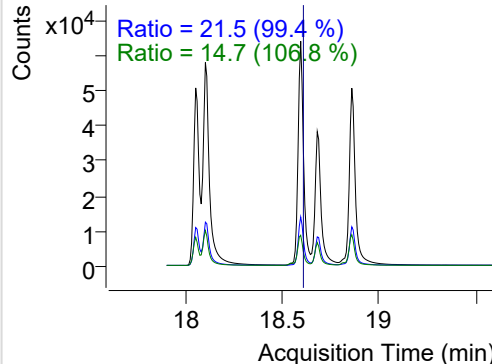
+ SIM (18.495-18.644 min, 22 scans) (**) 2212

**Benzo(e)pyrene**

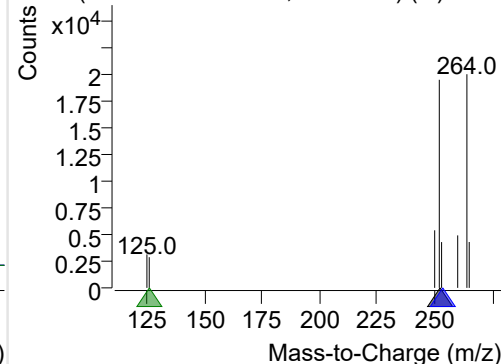
+ Selected Ion (252.0) 221208-PAHs-035.D



252.0, 253.0, 126.0

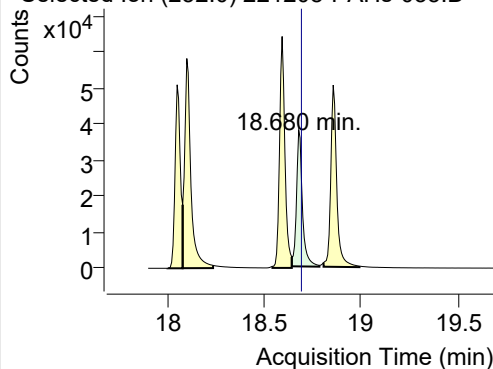


+ SIM (18.544-18.644 min, 15 scans) (**) 2212

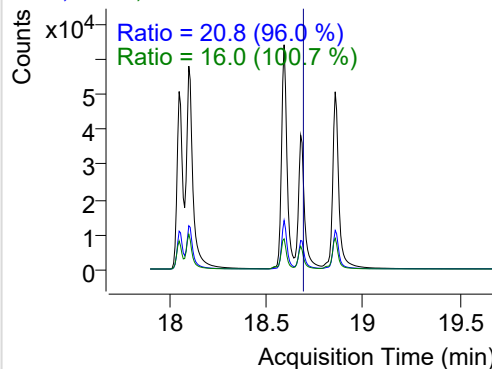


Benzo(a)pyrene

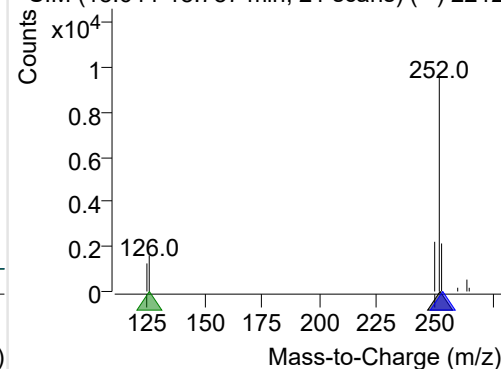
+ Selected Ion (252.0) 221208-PAHs-035.D



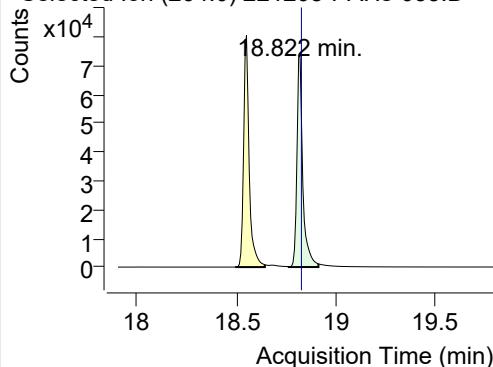
252.0, 253.0, 126.0



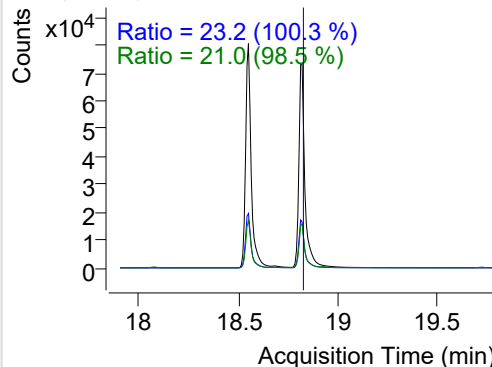
+ SIM (18.644-18.787 min, 21 scans) (**) 2212

**IS-D12-Perylene**

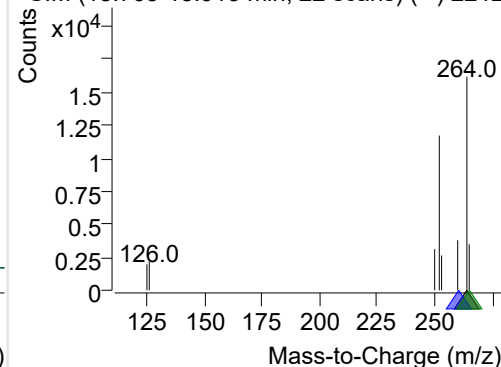
+ Selected Ion (264.0) 221208-PAHs-035.D



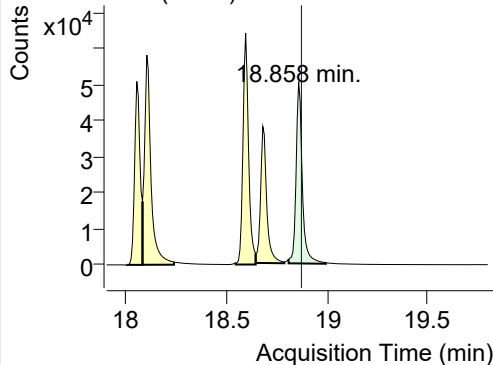
264.0, 260.0, 265.0



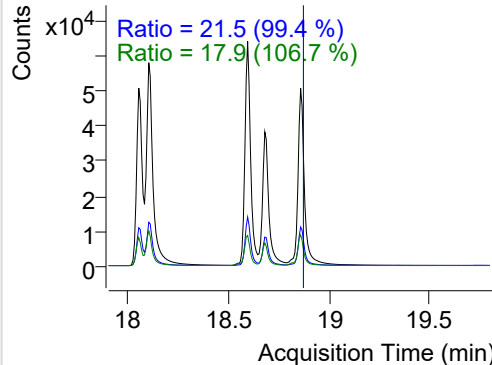
+ SIM (18.765-18.915 min, 22 scans) (**) 2212

**Perylene**

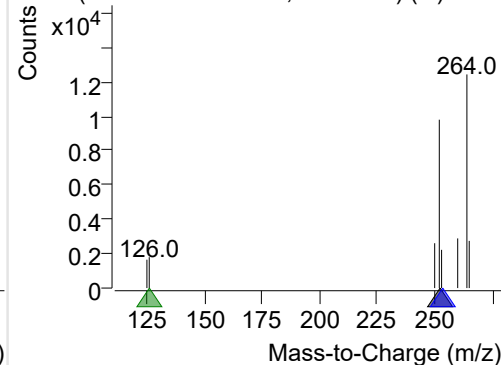
+ Selected Ion (252.0) 221208-PAHs-035.D



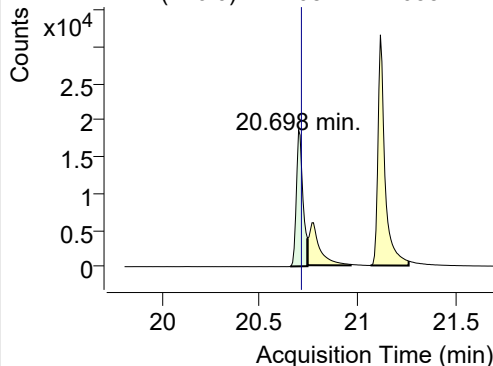
252.0, 253.0, 126.0



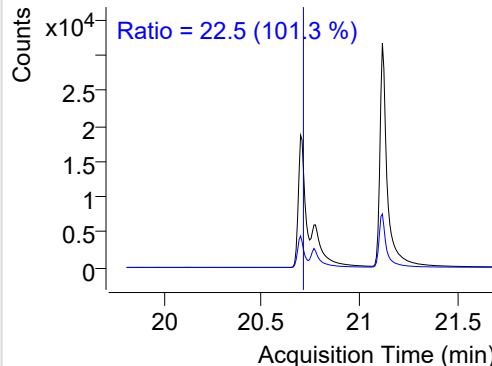
+ SIM (18.808-18.993 min, 27 scans) (**) 2212

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

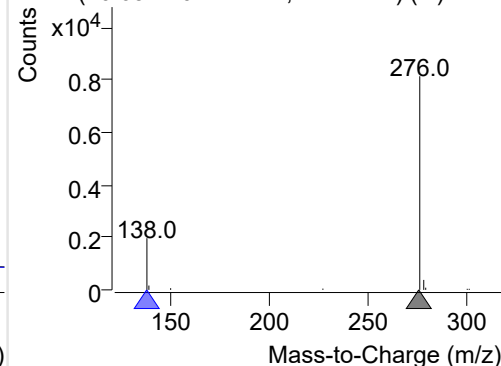
+ Selected Ion (276.0) 221208-PAHs-035.D



276.0, 138.0

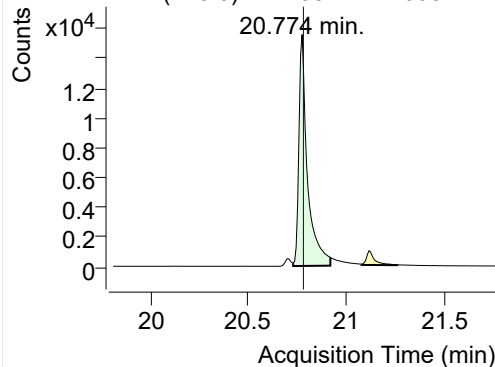


+ SIM (20.654-20.744 min, 12 scans) (**) 2212

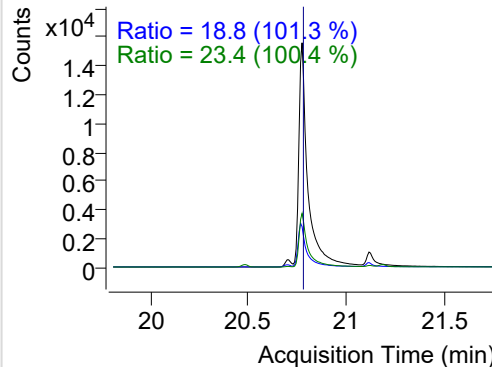


Dibenz(a,h)anthracene

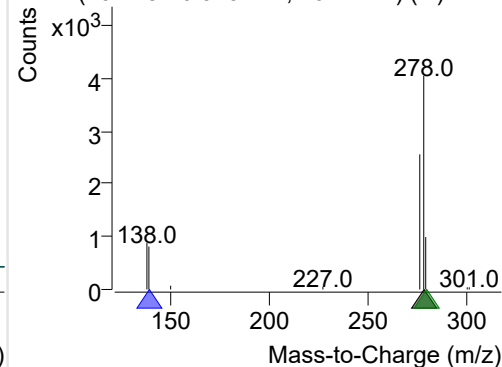
+ Selected Ion (278.0) 221208-PAHs-035.D



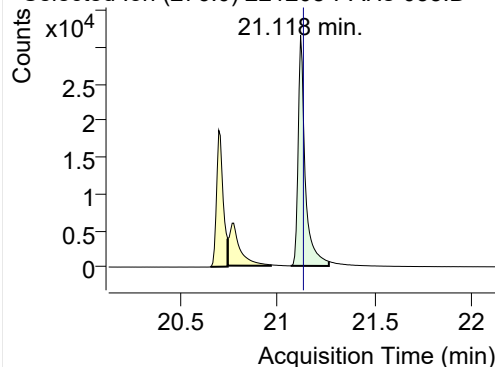
278.0, 139.0, 279.0



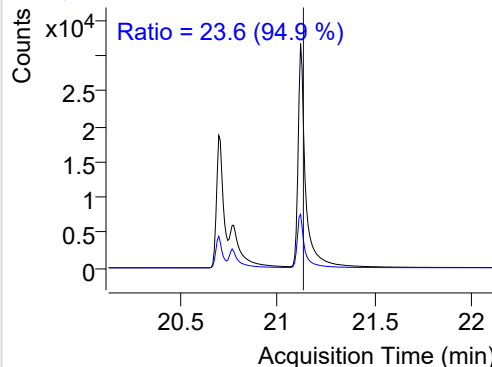
+ SIM (20.728-20.919 min, 26 scans) (**) 2212

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

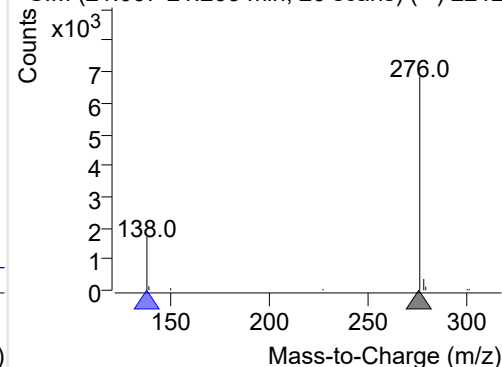
+ Selected Ion (276.0) 221208-PAHs-035.D



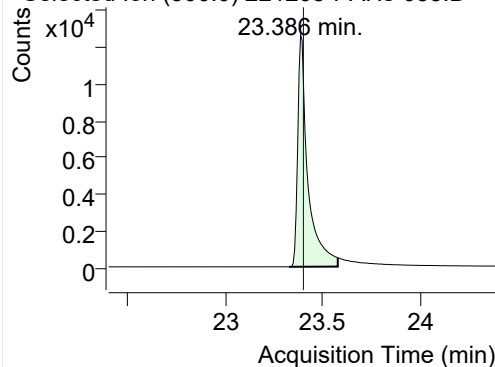
276.0, 138.0



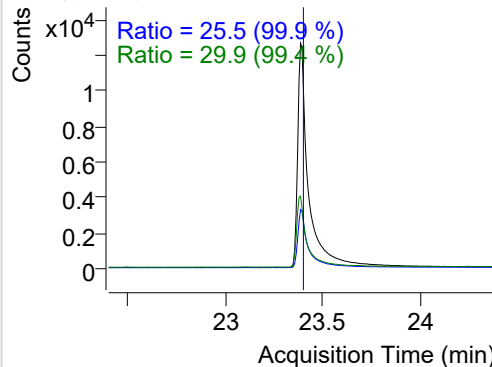
+ SIM (21.067-21.263 min, 26 scans) (**) 2212

**Coronene**

+ Selected Ion (300.0) 221208-PAHs-035.D



300.0, 301.0, 150.0



+ SIM (23.326-23.576 min, 33 scans) (**) 2212

