

Quantitative Analysis Sample Based Report

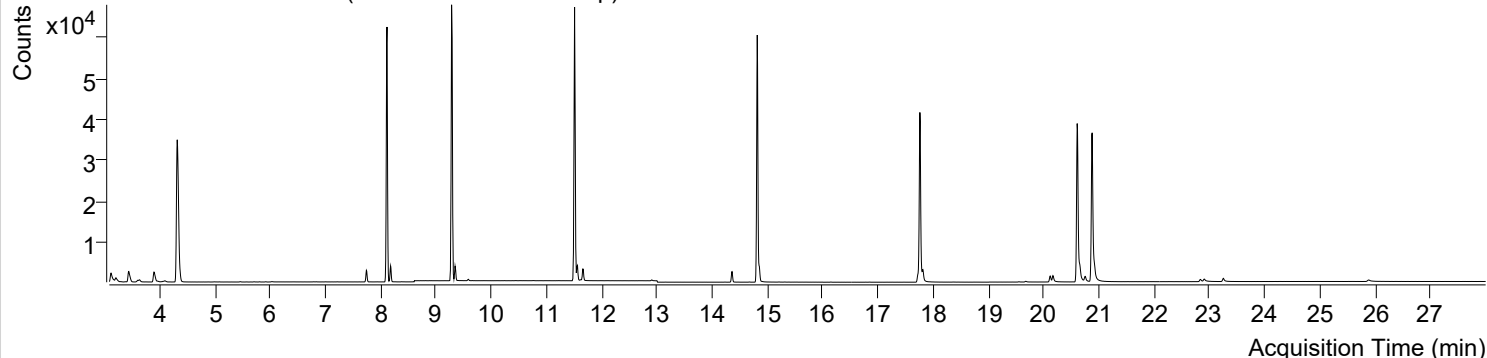


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-02 오후 9:44:14	Data File	220302-PAHs-024.D
Type	Cal	Name	PAHs-19mix-STD-0.05p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

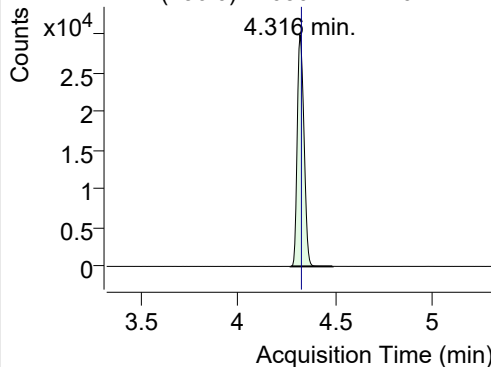
+ TIC SIM 220302-PAHs-024.D (PAHs-19mix-STD-0.05p)



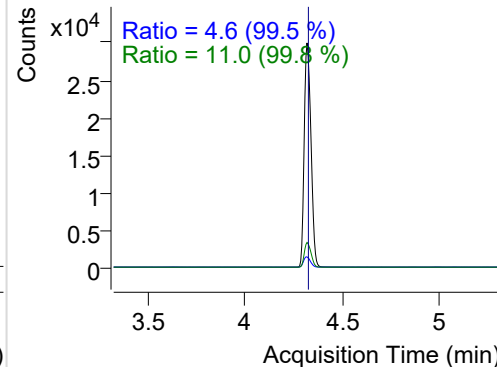
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.316	136.0	72261	29938.17	ND ng/ml	11.0
Naphthalene	4.348	128.0	6236	2620.77	ND ng/ml	14.1
Acenaphthylene	7.739	152.0	3231	2094.93	ND ng/ml	19.5
IS-D10-Acenaphthene	8.112	164.0	45638	30974.82	ND ng/ml	89.4
Acenaphthene	8.177	154.0	2173	1432.49	ND ng/ml	100.8
LSS-D10-Fluorene	9.281	176.0	51411	31404.74	ND ng/ml	86.5
Fluorene	9.344	166.0	2621	1703.92	ND ng/ml	87.1
IS-D10-Phenanthrene	11.508	188.0	81456	54763.88	ND ng/ml	15.1
Phenanthrene	11.560	178.0	3850	2385.61	ND ng/ml	16.8
Anthracene	11.665	178.0	3352	1935.20	ND ng/ml	16.6
Fluoranthene	14.359	202.0	3281	2028.38	ND ng/ml	17.3
LSS-D10-Pyrene	14.814	212.0	70533	46115.25	ND ng/ml	17.0
Pyrene	14.852	202.0	4179	2532.18	ND ng/ml	20.8
Benz(a)anthracene	17.720	228.0	2392	1249.90	ND ng/ml	22.9
IS-D12-Chrysene	17.758	240.0	57400	31658.76	ND ng/ml	19.0
Chrysene	17.812	228.0	2944	1537.43	ND ng/ml	26.1
Benzo(b)fluoranthene	20.117	252.0	2131	1096.03	ND ng/ml	21.6
Benzo(k)fluoranthene	20.166	252.0	2647	1125.58	ND ng/ml	21.6
SS-D12-Benzo(e)pyrene	20.605	264.0	54703	26612.92	ND ng/ml	22.6
Benzo(e)pyrene	20.654	252.0	3187	1564.82	ND ng/ml	21.4
Benzo(a)pyrene	20.752	252.0	1606	801.61	ND ng/ml	23.9
IS-D12-Perylene	20.876	264.0	53337	25277.00	ND ng/ml	21.1
Perylene	20.920	252.0	2616	1251.25	ND ng/ml	24.7
Indeno(1,2,3-c,d)pyrene	22.837	276.0	1063	445.56	ND ng/ml	17.3
Dibenz(a,h)anthracene	22.906	278.0	1019	329.06	ND ng/ml	23.2
Benzo(g,h,i)perylene	23.249	276.0	1672	628.16	ND ng/ml	17.4
Coronene	25.883	300.0	992	240.10	ND ng/ml	29.5

IS-D8-Naphthalene

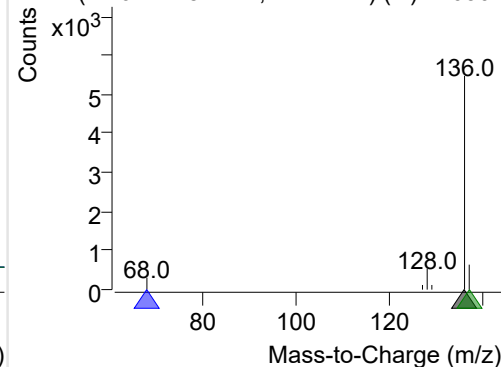
+ Selected Ion (136.0) 220302-PAHs-024.D



136.0, 68.0, 137.0

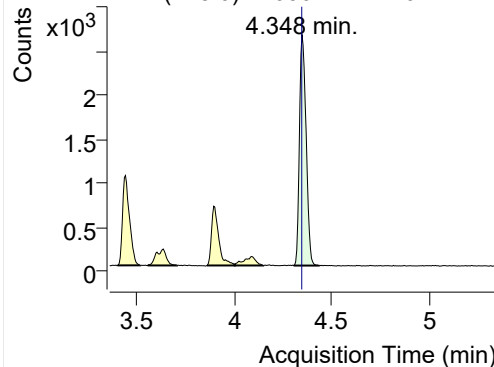


+ SIM (4.267-4.484 min, 41 scans) (**) 220302

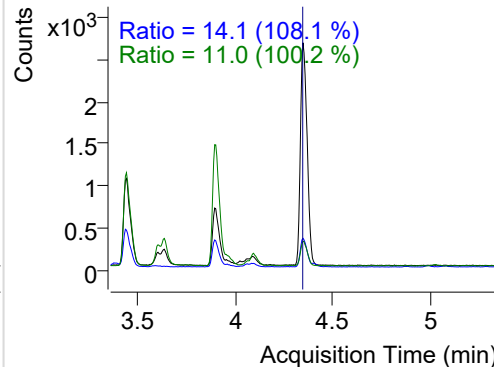


Naphthalene

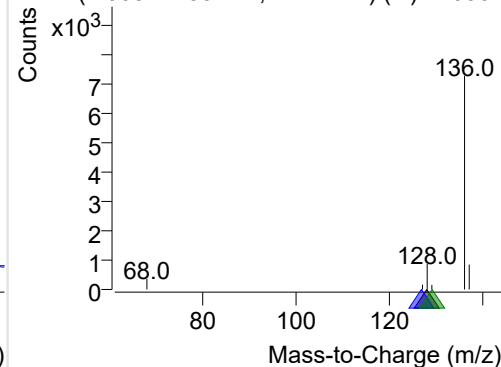
+ Selected Ion (128.0) 220302-PAHs-024.D



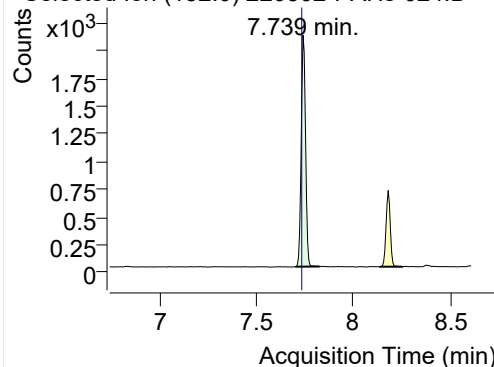
128.0, 127.0, 129.0



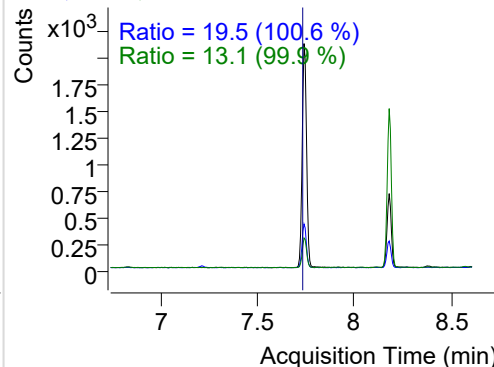
+ SIM (4.305-4.435 min, 24 scans) (**) 220302

**Acenaphthylene**

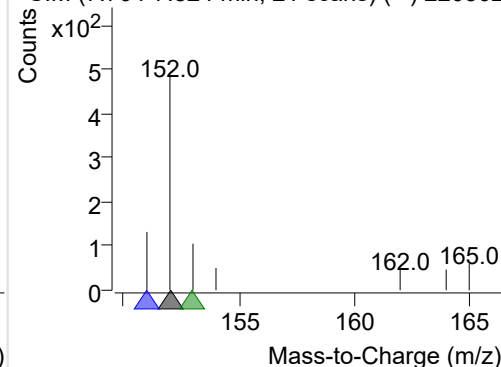
+ Selected Ion (152.0) 220302-PAHs-024.D



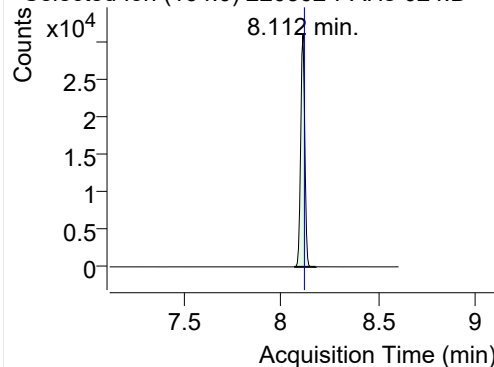
152.0, 151.0, 153.0



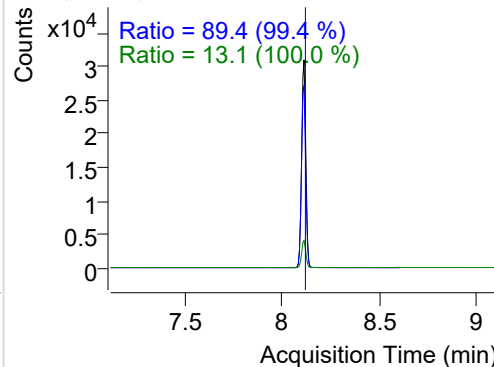
+ SIM (7.704-7.824 min, 21 scans) (**) 220302

**IS-D10-Acenaphthene**

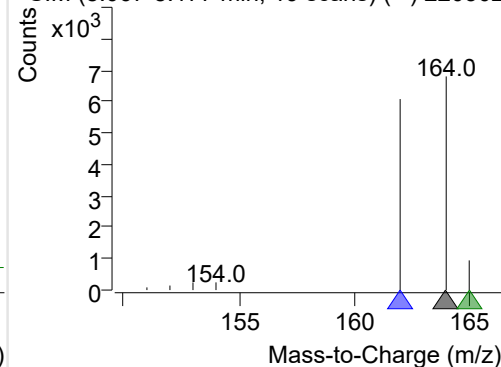
+ Selected Ion (164.0) 220302-PAHs-024.D



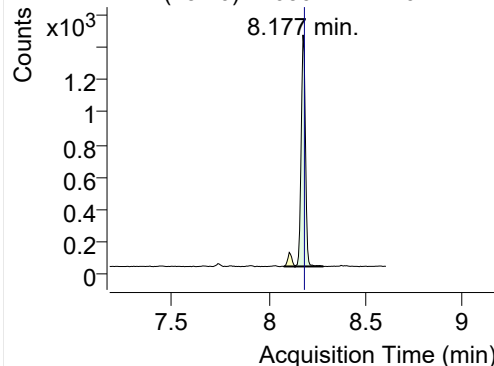
164.0, 162.0, 165.0



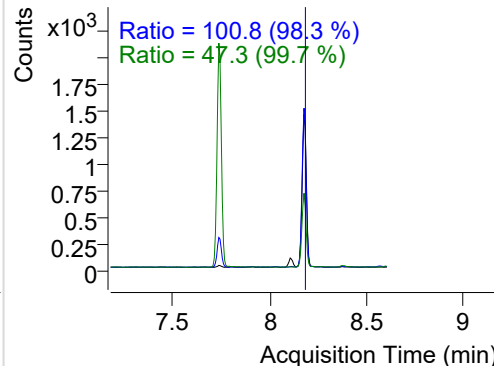
+ SIM (8.067-8.177 min, 19 scans) (**) 220302

**Acenaphthene**

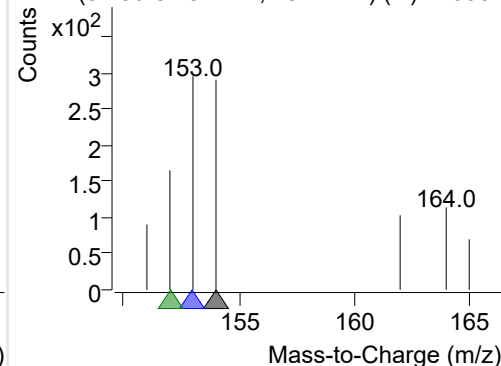
+ Selected Ion (154.0) 220302-PAHs-024.D



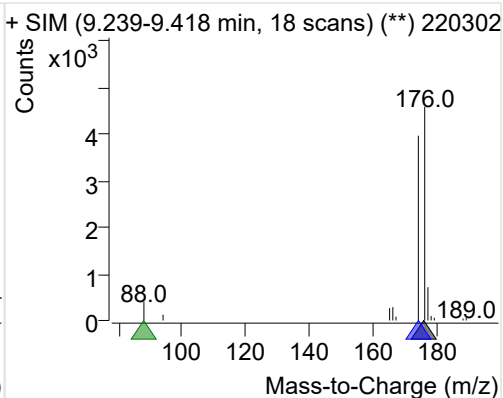
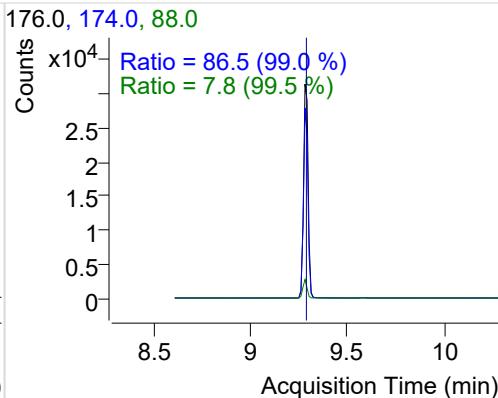
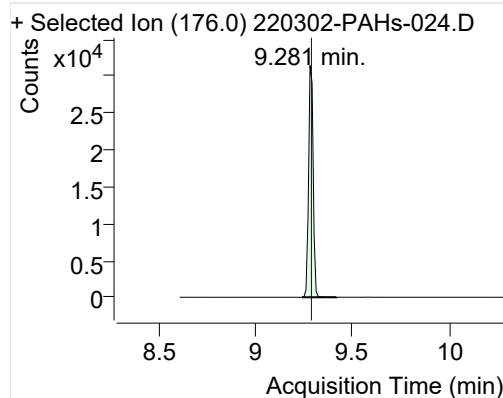
154.0, 153.0, 152.0



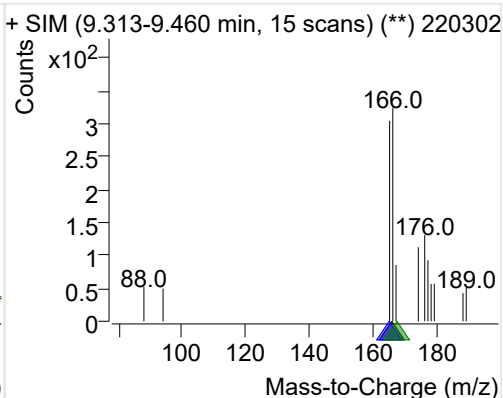
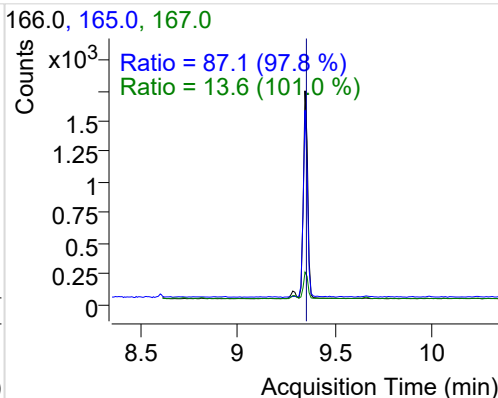
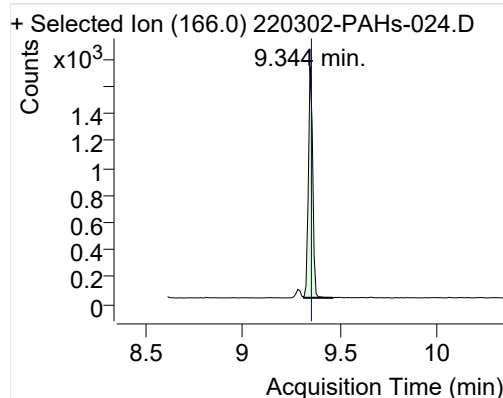
+ SIM (8.136-8.282 min, 25 scans) (**) 220302



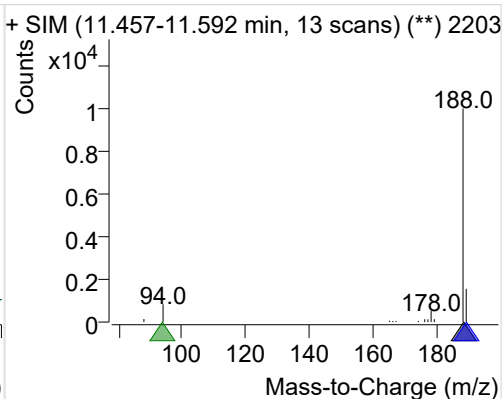
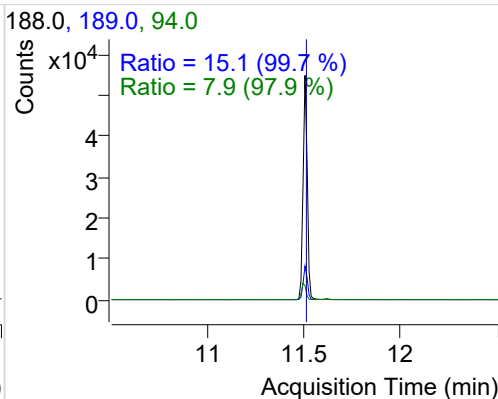
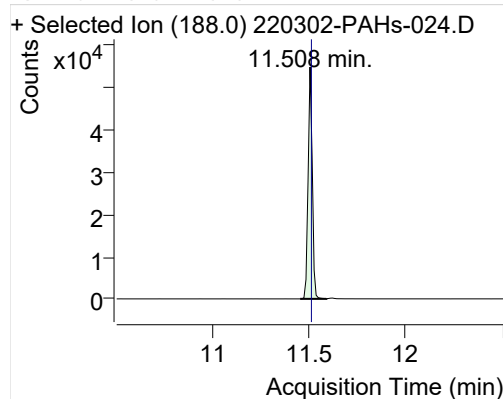
LSS-D10-Fluorene



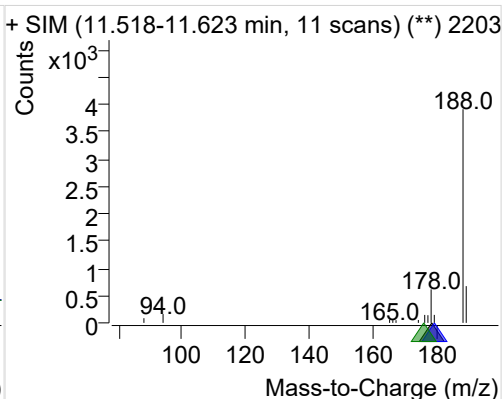
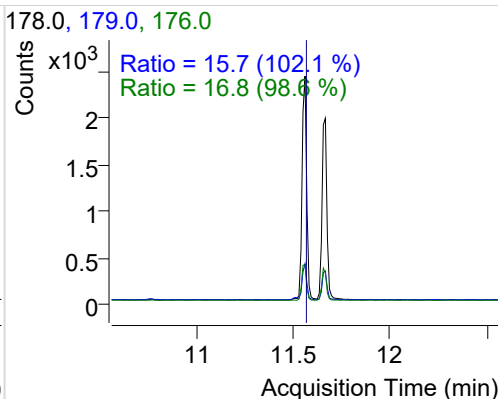
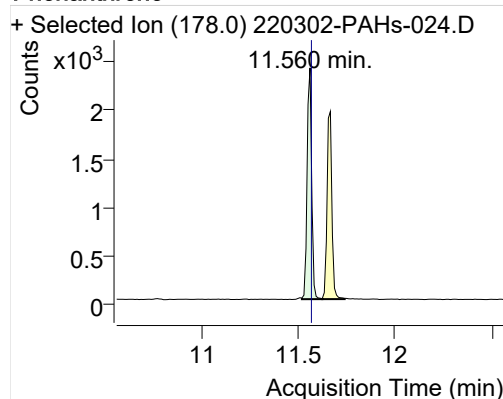
Fluorene



IS-D10-Phenanthrene

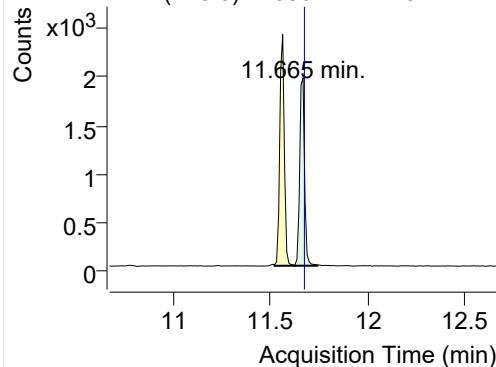


Phenanthrene

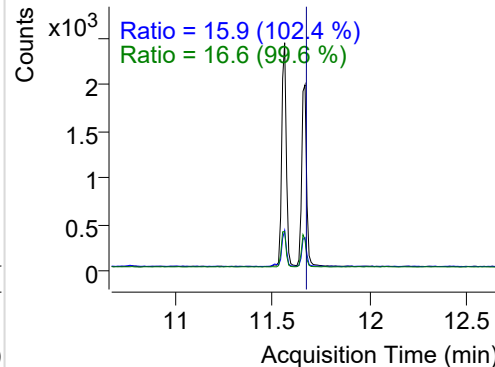


Anthracene

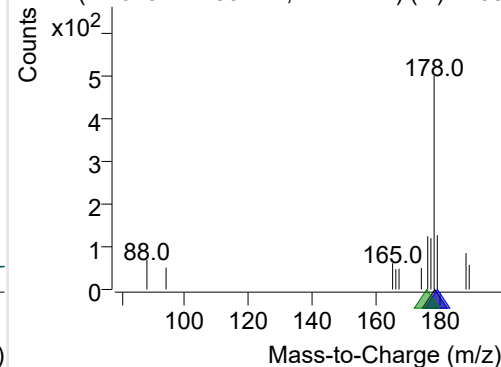
+ Selected Ion (178.0) 220302-PAHs-024.D



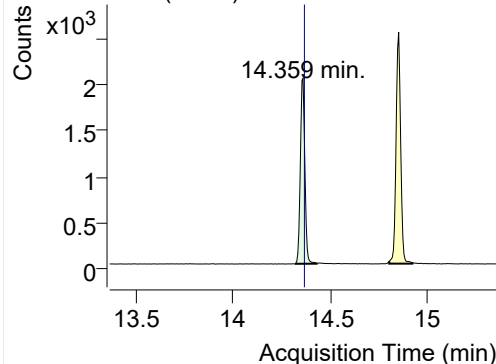
178.0, 179.0, 176.0



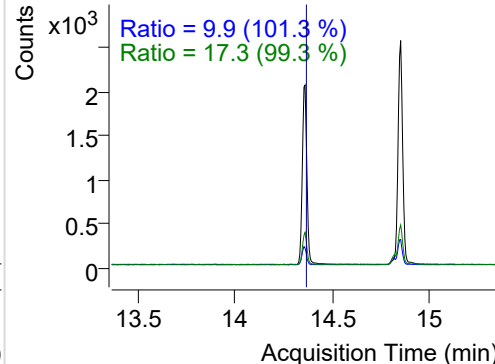
+ SIM (11.623-11.739 min, 12 scans) (**) 2203

**Fluoranthene**

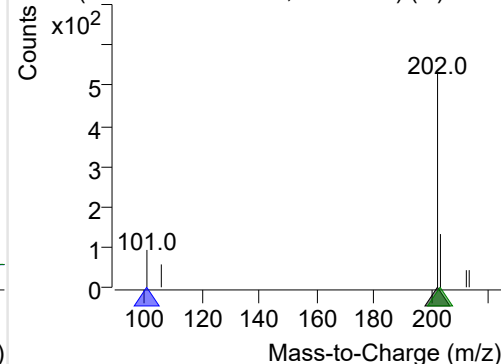
+ Selected Ion (202.0) 220302-PAHs-024.D



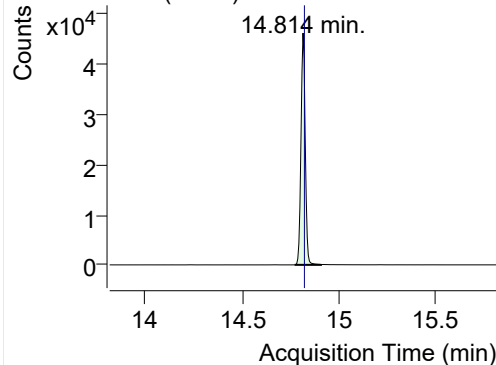
202.0, 101.0, 203.0



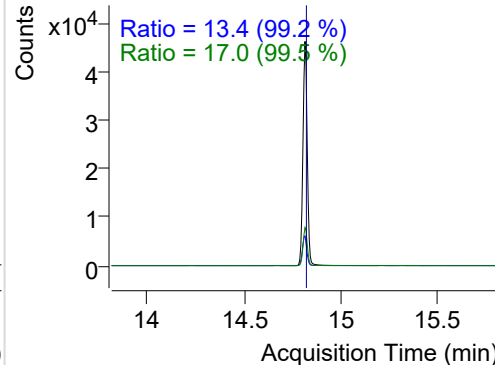
+ SIM (14.318-14.430 min, 21 scans) (**) 2203

**LSS-D10-Pyrene**

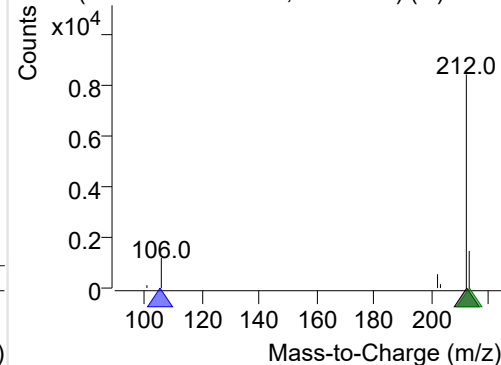
+ Selected Ion (212.0) 220302-PAHs-024.D



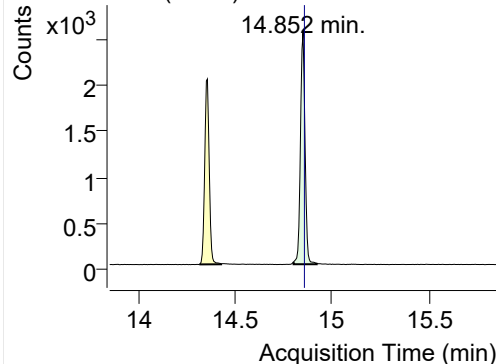
212.0, 106.0, 213.0



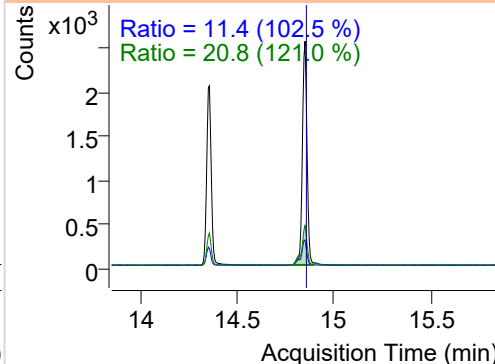
+ SIM (14.771-14.907 min, 26 scans) (**) 2203

**Pyrene**

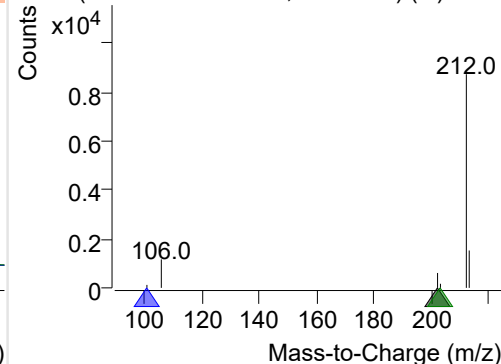
+ Selected Ion (202.0) 220302-PAHs-024.D



202.0, 101.0, 203.0

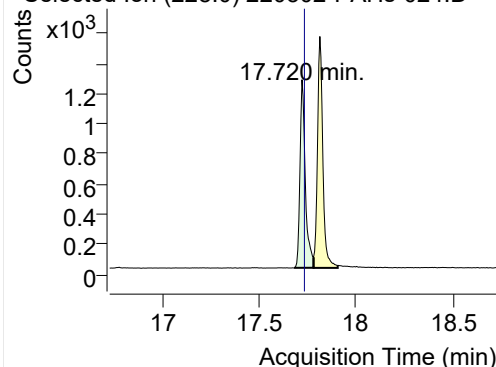


+ SIM (14.804-14.923 min, 23 scans) (**) 2203

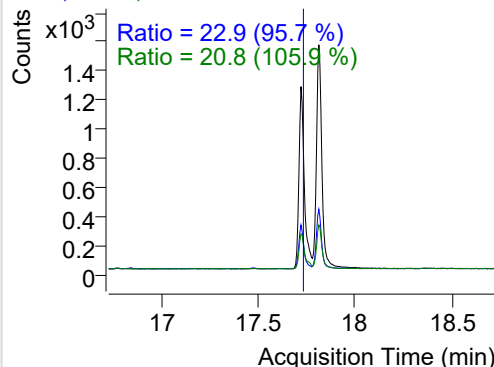


Benz(a)anthracene

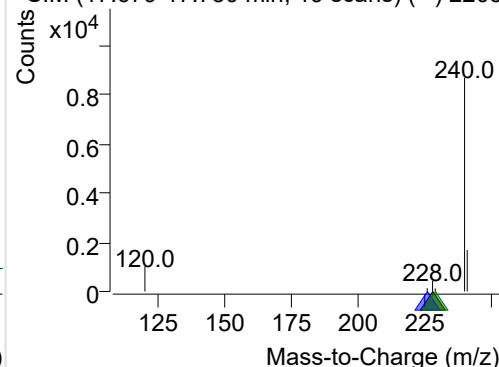
+ Selected Ion (228.0) 220302-PAHs-024.D



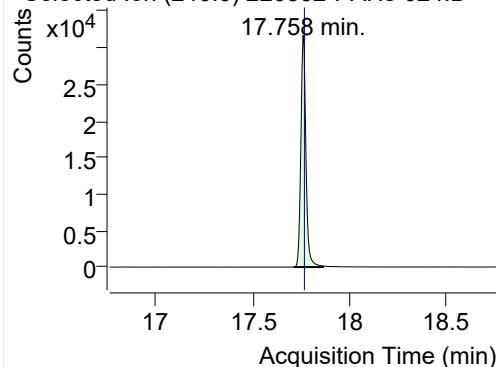
228.0, 226.0, 229.0



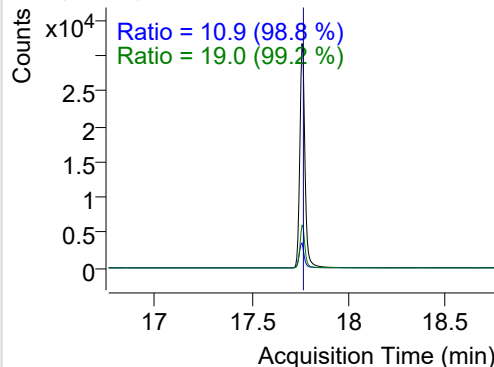
+ SIM (17.679-17.780 min, 19 scans) (**) 2203

**IS-D12-Chrysene**

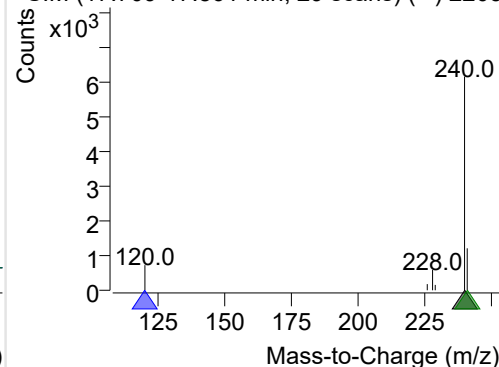
+ Selected Ion (240.0) 220302-PAHs-024.D



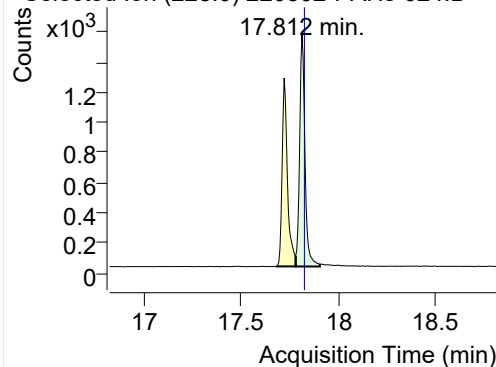
240.0, 120.0, 241.0



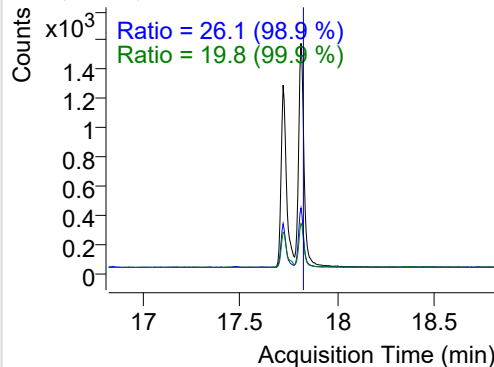
+ SIM (17.709-17.861 min, 29 scans) (**) 2203

**Chrysene**

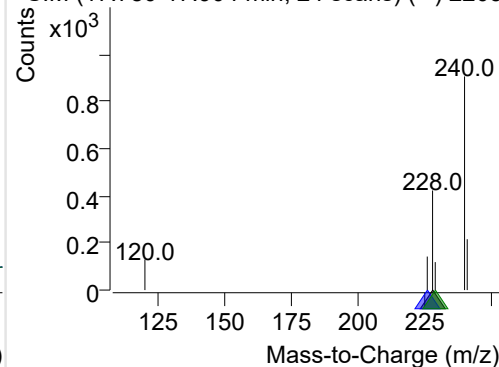
+ Selected Ion (228.0) 220302-PAHs-024.D



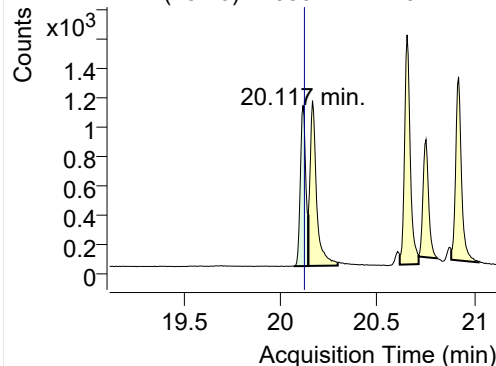
228.0, 226.0, 229.0



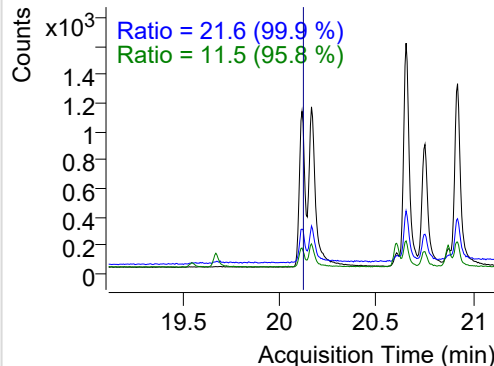
+ SIM (17.780-17.904 min, 24 scans) (**) 2203

**Benzo(b)fluoranthene**

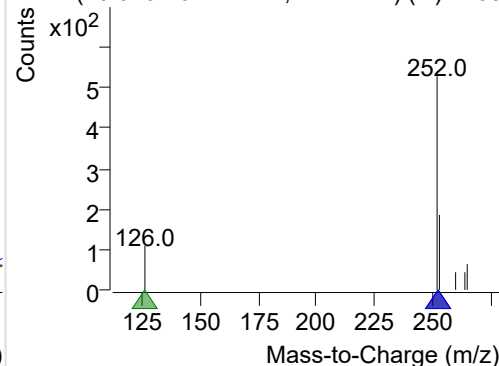
+ Selected Ion (252.0) 220302-PAHs-024.D



252.0, 253.0, 126.0

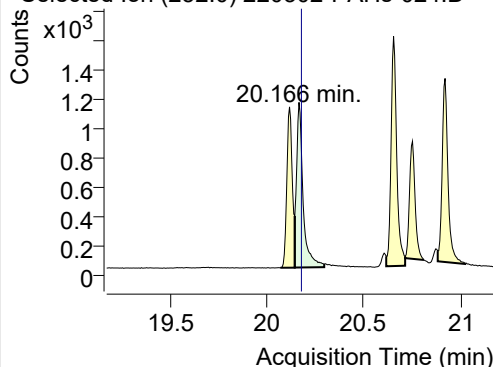


+ SIM (20.070-20.144 min, 14 scans) (**) 2203

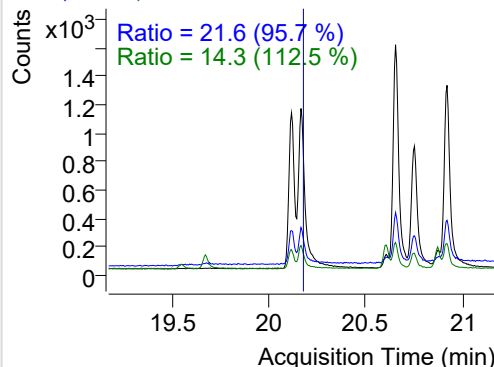


Benzo(k)fluoranthene

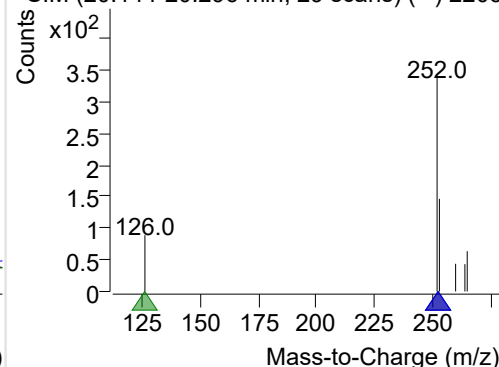
+ Selected Ion (252.0) 220302-PAHs-024.D



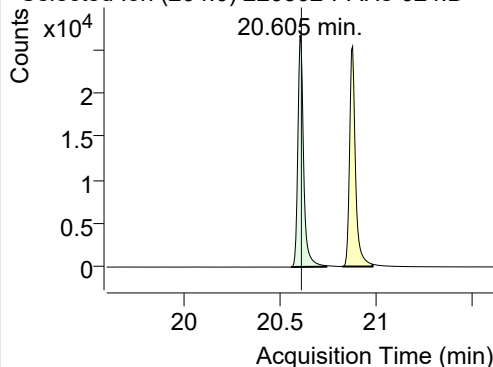
252.0, 253.0, 126.0



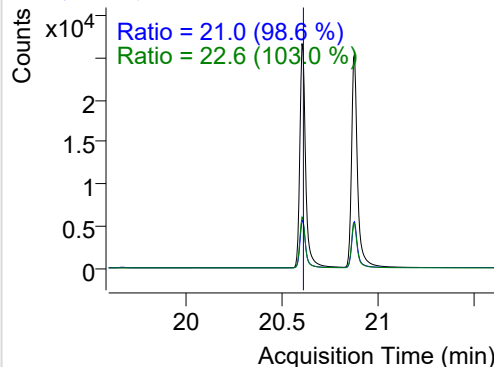
+ SIM (20.144-20.296 min, 29 scans) (**) 2203

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

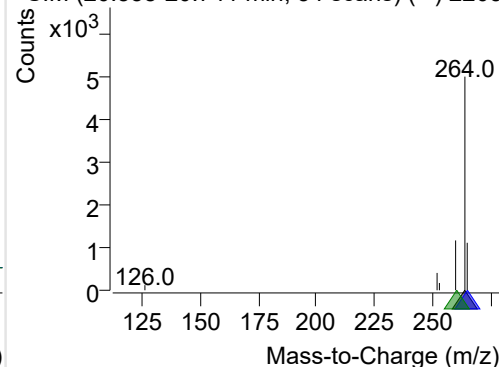
+ Selected Ion (264.0) 220302-PAHs-024.D



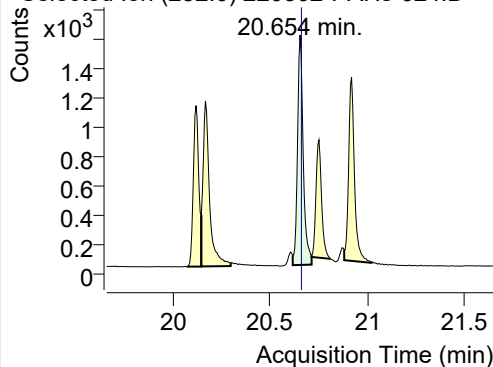
264.0, 265.0, 260.0



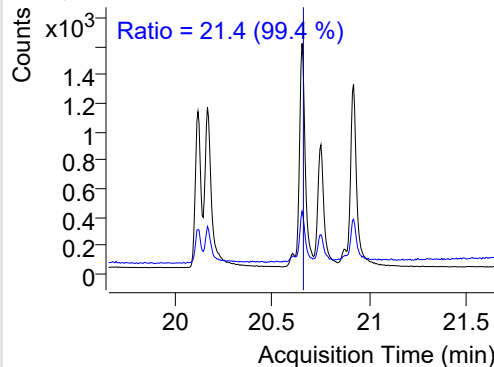
+ SIM (20.558-20.741 min, 34 scans) (**) 2203

**Benzo(e)pyrene**

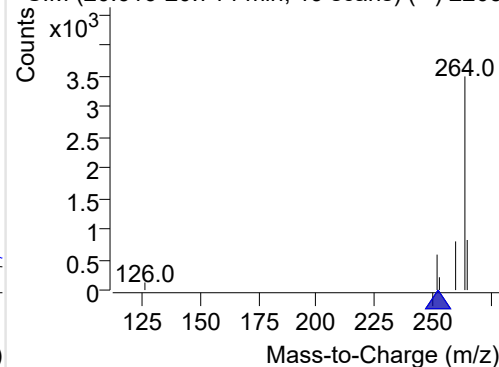
+ Selected Ion (252.0) 220302-PAHs-024.D



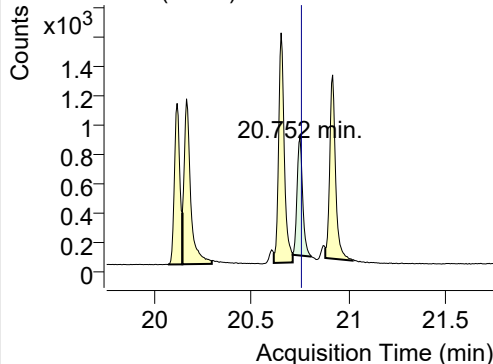
252.0, 253.0



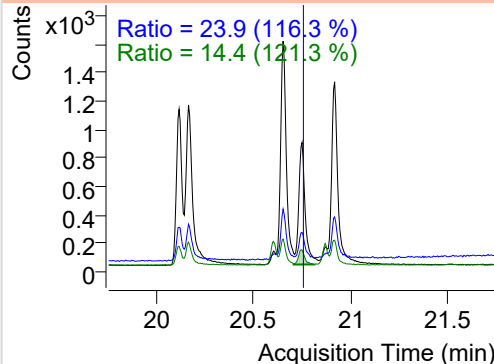
+ SIM (20.616-20.714 min, 19 scans) (**) 2203

**Benzo(a)pyrene**

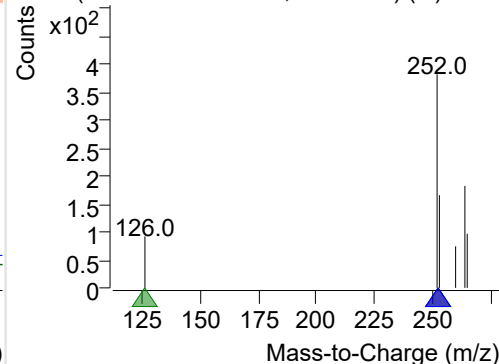
+ Selected Ion (252.0) 220302-PAHs-024.D



252.0, 253.0, 126.0

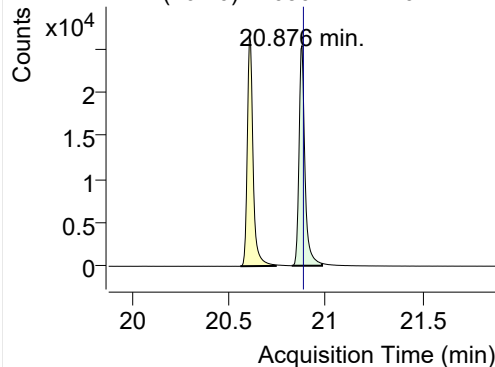


+ SIM (20.714-20.811 min, 18 scans) (**) 2203

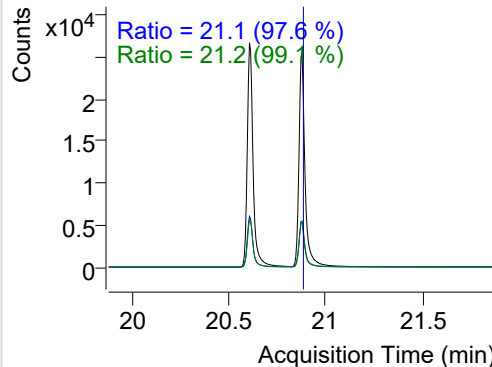


IS-D12-Perylene

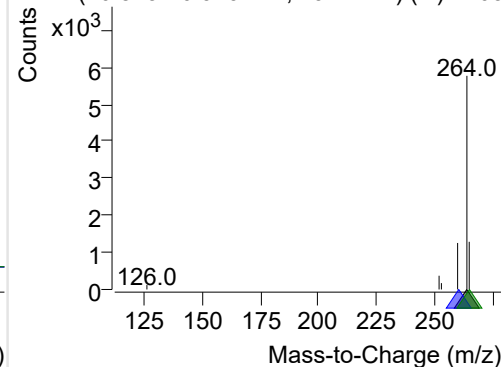
+ Selected Ion (264.0) 220302-PAHs-024.D



264.0, 260.0, 265.0

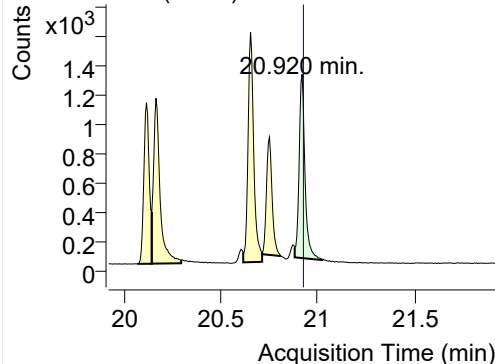


+ SIM (20.823-20.979 min, 29 scans) (**) 2203

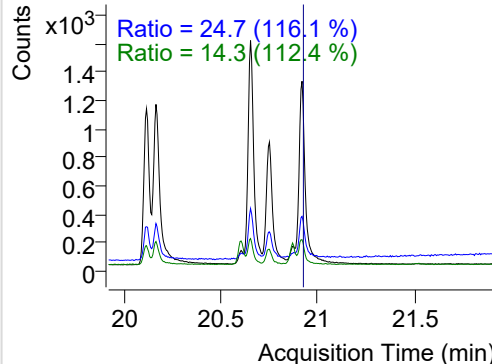


Perylene

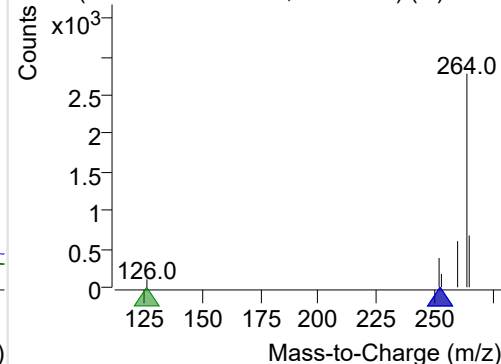
+ Selected Ion (252.0) 220302-PAHs-024.D



252.0, 253.0, 126.0

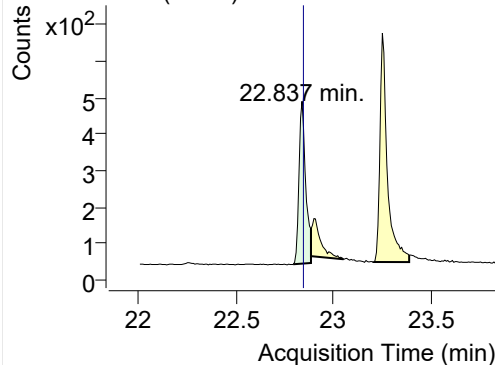


+ SIM (20.882-21.023 min, 27 scans) (**) 2203

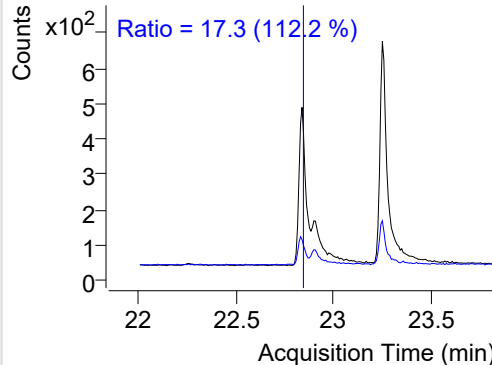


Indeno(1,2,3-c,d)pyrene

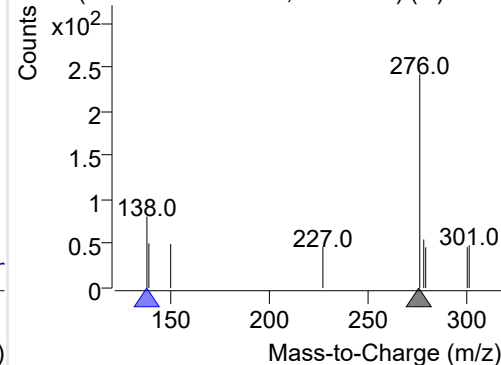
+ Selected Ion (276.0) 220302-PAHs-024.D



276.0, 138.0

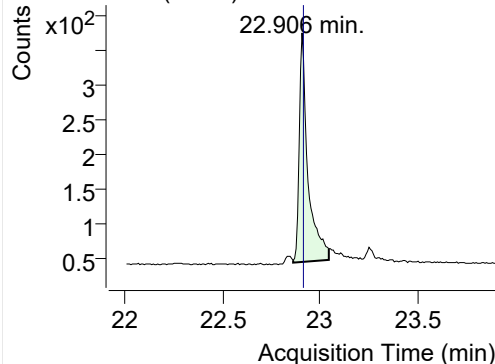


+ SIM (22.792-22.883 min, 12 scans) (**) 2203

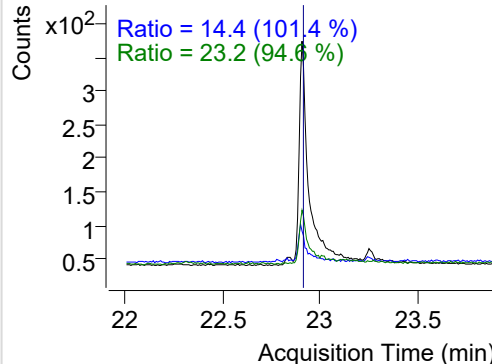


Dibenz(a,h)anthracene

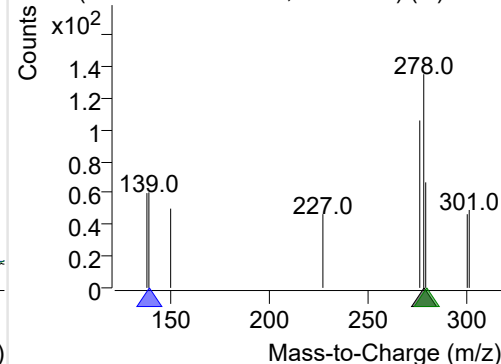
+ Selected Ion (278.0) 220302-PAHs-024.D



278.0, 139.0, 279.0

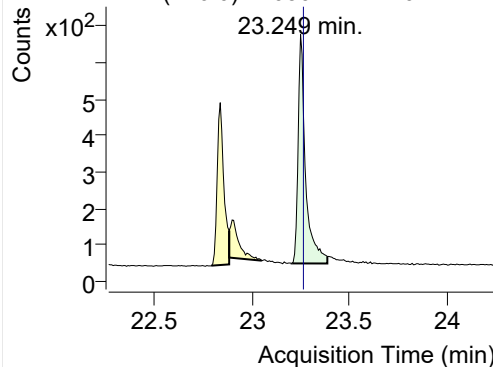


+ SIM (22.860-23.043 min, 25 scans) (**) 2203

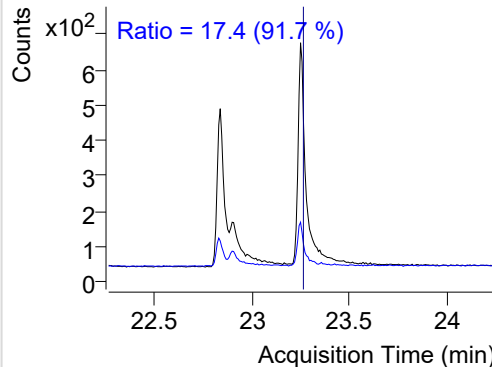


Benzo(g,h,i)perylene

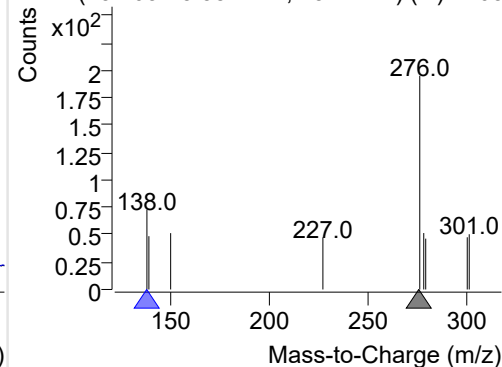
+ Selected Ion (276.0) 220302-PAHs-024.D



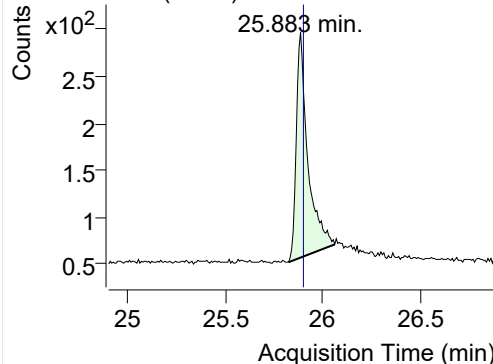
276.0, 138.0



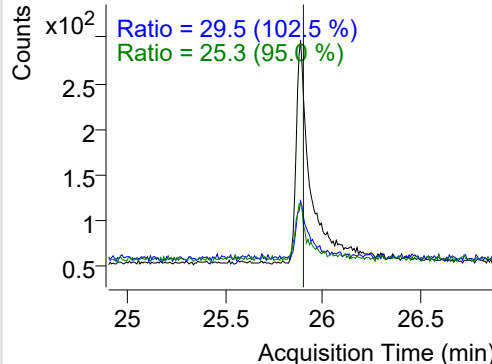
+ SIM (23.203-23.387 min, 25 scans) (**) 2203

**Coronene**

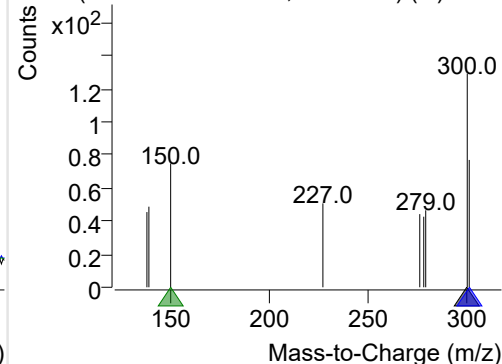
+ Selected Ion (300.0) 220302-PAHs-024.D



300.0, 301.0, 150.0



+ SIM (25.822-26.059 min, 32 scans) (**) 2203



Quantitative Analysis Sample Based Report

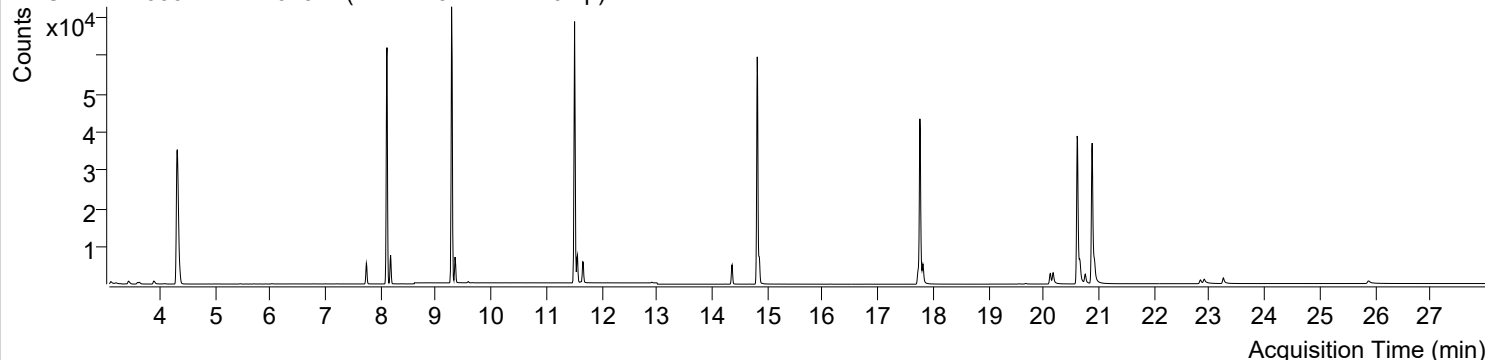


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-02 오후 10:15:38	Data File	220302-PAHs-025.D
Type	Cal	Name	PAHs-19mix-STD-0.1p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

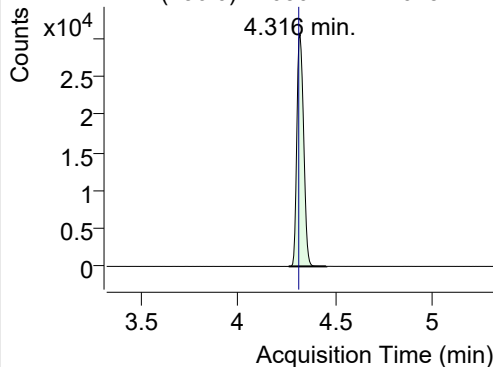
+ TIC SIM 220302-PAHs-025.D (PAHs-19mix-STD-0.1p)



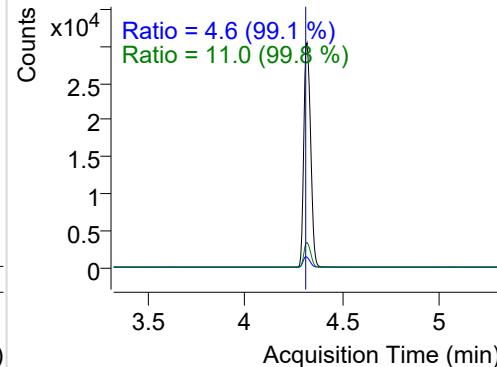
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.316	136.0	74170	30387.64	ND ng/ml	11.0
Naphthalene	4.348	128.0	8573	3566.53	ND ng/ml	13.7
Acenaphthylene	7.739	152.0	6282	4065.09	ND ng/ml	19.5
IS-D10-Acenaphthene	8.112	164.0	46580	30704.52	ND ng/ml	89.6
Acenaphthene	8.177	154.0	4146	2796.33	ND ng/ml	102.7
LSS-D10-Fluorene	9.281	176.0	52490	33661.71	ND ng/ml	86.6
Fluorene	9.344	166.0	5005	3271.65	ND ng/ml	88.7
IS-D10-Phenanthrene	11.508	188.0	82536	56103.79	ND ng/ml	15.1
Phenanthrene	11.560	178.0	7710	4867.94	ND ng/ml	16.9
Anthracene	11.665	178.0	6565	3733.94	ND ng/ml	16.5
Fluoranthene	14.359	202.0	6465	4003.44	ND ng/ml	17.4
LSS-D10-Pyrene	14.814	212.0	71769	45603.66	ND ng/ml	16.9
Pyrene	14.852	202.0	8200	5038.80	ND ng/ml	19.1
Benz(a)anthracene	17.725	228.0	4553	2425.80	ND ng/ml	23.3
IS-D12-Chrysene	17.758	240.0	58911	33139.86	ND ng/ml	18.9
Chrysene	17.812	228.0	5883	2988.97	ND ng/ml	25.7
Benzo(b)fluoranthene	20.117	252.0	4120	2069.00	ND ng/ml	21.4
Benzo(k)fluoranthene	20.171	252.0	5359	2171.09	ND ng/ml	22.0
SS-D12-Benzo(e)pyrene	20.605	264.0	54902	26774.16	ND ng/ml	22.7
Benzo(e)pyrene	20.654	252.0	6217	2953.27	ND ng/ml	21.8
Benzo(a)pyrene	20.751	252.0	3496	1646.43	ND ng/ml	20.9
IS-D12-Perylene	20.876	264.0	52631	25409.00	ND ng/ml	21.6
Perylene	20.920	252.0	5363	2402.64	ND ng/ml	21.8
Indeno(1,2,3-c,d)pyrene	22.837	276.0	1990	802.85	ND ng/ml	15.8
Dibenz(a,h)anthracene	22.906	278.0	2143	612.81	ND ng/ml	23.3
Benzo(g,h,i)perylene	23.249	276.0	3200	1189.87	ND ng/ml	18.5
Coronene	25.883	300.0	2217	444.54	ND ng/ml	26.5

IS-D8-Naphthalene

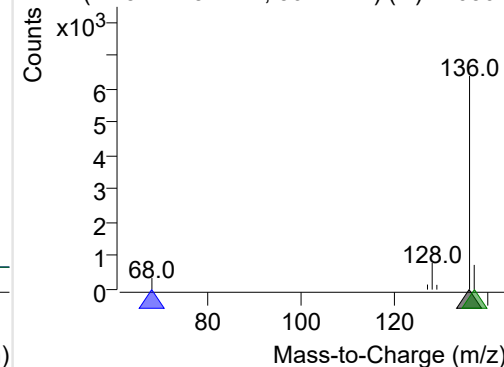
+ Selected Ion (136.0) 220302-PAHs-025.D



136.0, 68.0, 137.0

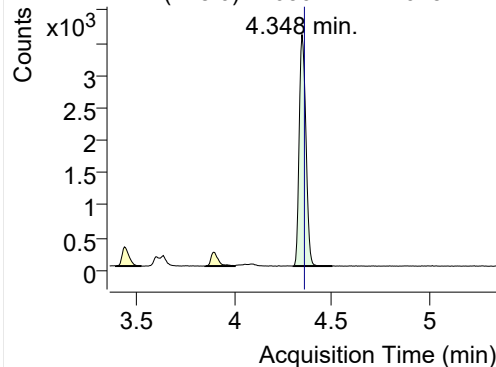


+ SIM (4.257-4.451 min, 36 scans) (**) 220302

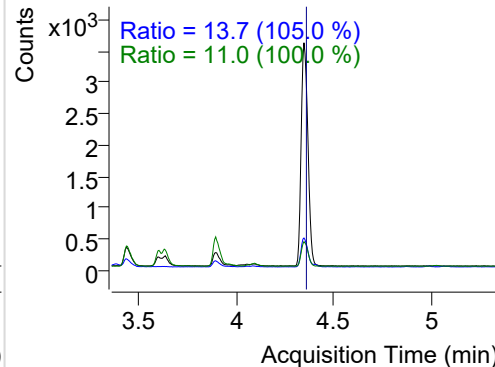


Naphthalene

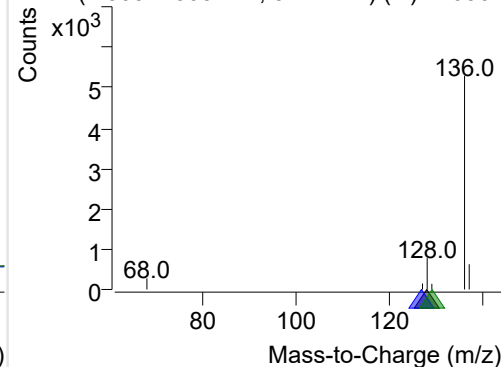
+ Selected Ion (128.0) 220302-PAHs-025.D



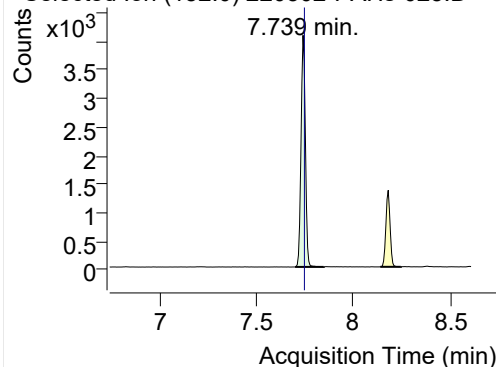
128.0, 127.0, 129.0



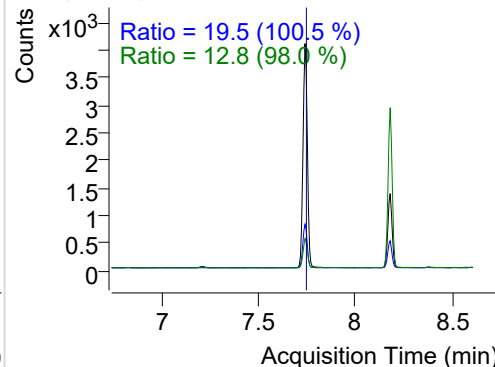
+ SIM (4.305-4.505 min, 37 scans) (**) 220302

**Acenaphthylene**

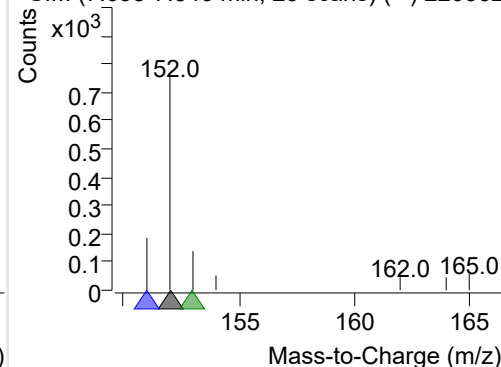
+ Selected Ion (152.0) 220302-PAHs-025.D



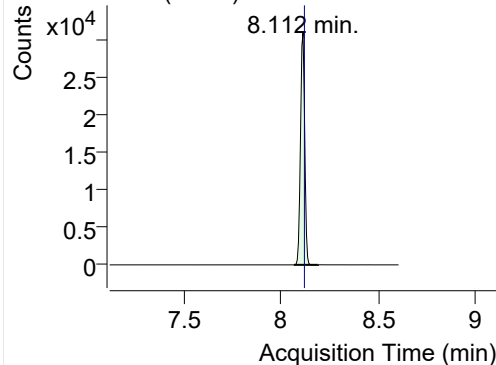
152.0, 151.0, 153.0



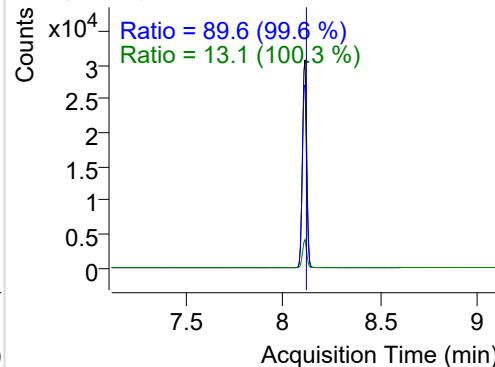
+ SIM (7.698-7.846 min, 25 scans) (**) 220302

**IS-D10-Acenaphthene**

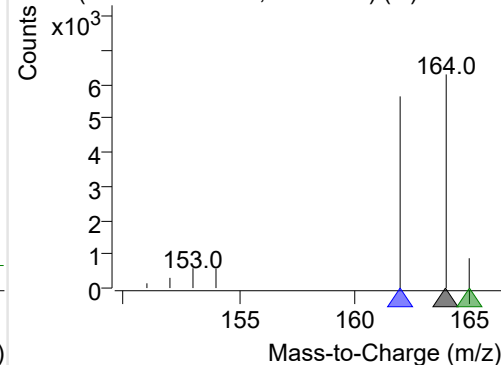
+ Selected Ion (164.0) 220302-PAHs-025.D



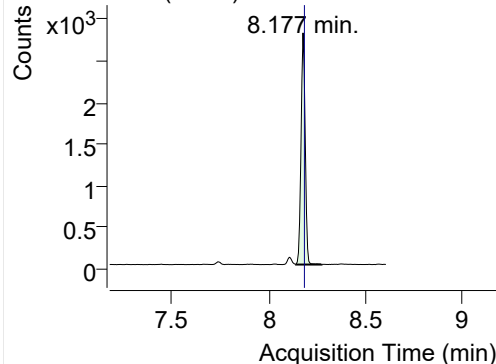
164.0, 162.0, 165.0



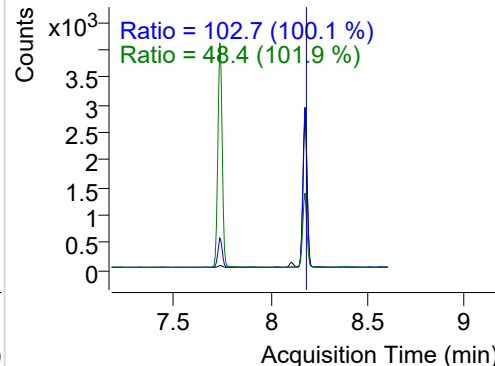
+ SIM (8.065-8.189 min, 21 scans) (**) 220302

**Acenaphthene**

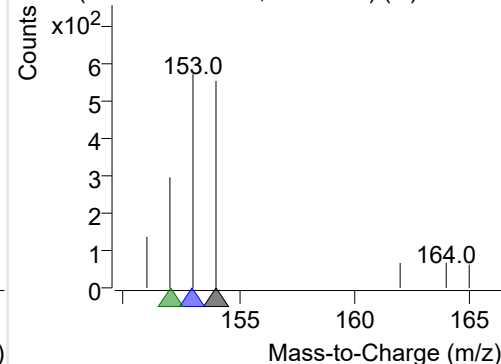
+ Selected Ion (154.0) 220302-PAHs-025.D



154.0, 153.0, 152.0

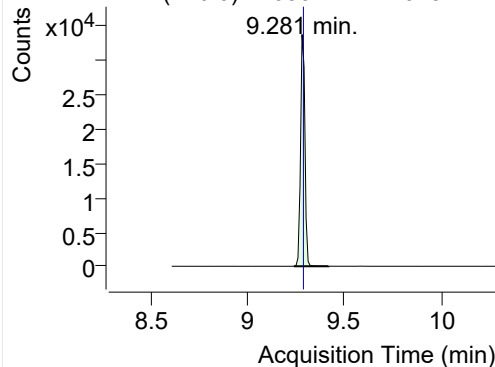


+ SIM (8.142-8.272 min, 23 scans) (**) 220302

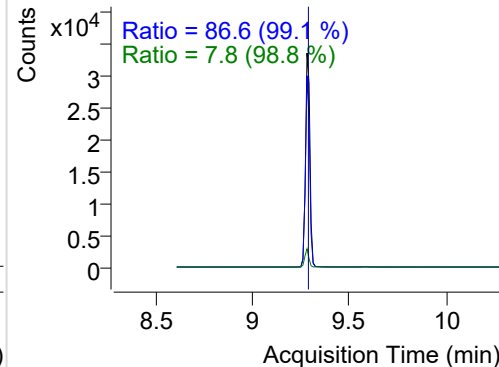


LSS-D10-Fluorene

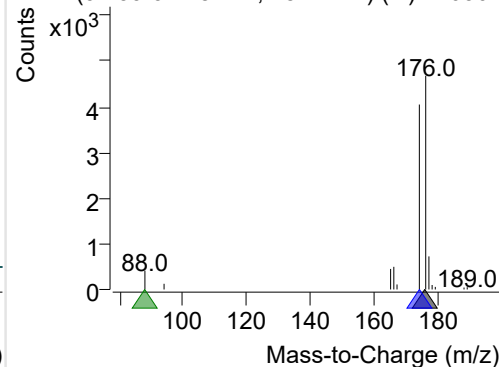
+ Selected Ion (176.0) 220302-PAHs-025.D



176.0, 174.0, 88.0

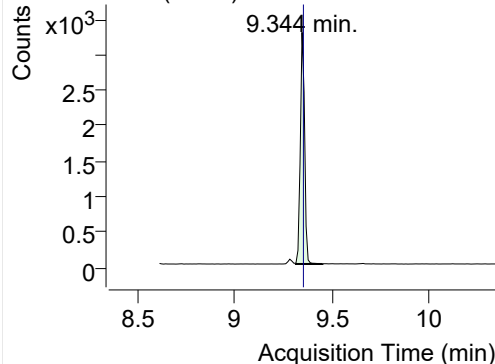


+ SIM (9.239-9.418 min, 18 scans) (**) 220302

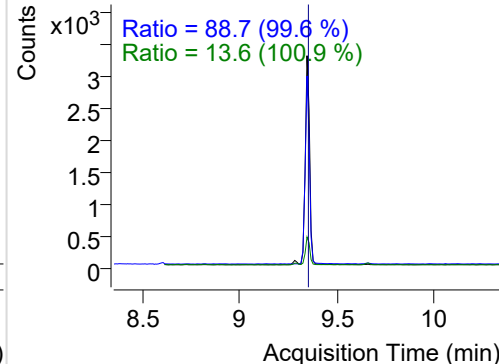


Fluorene

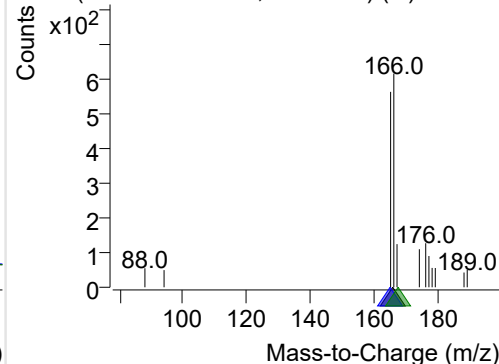
+ Selected Ion (166.0) 220302-PAHs-025.D



166.0, 165.0, 167.0

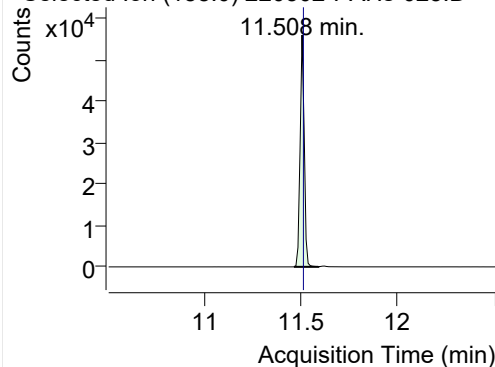


+ SIM (9.313-9.449 min, 14 scans) (**) 220302

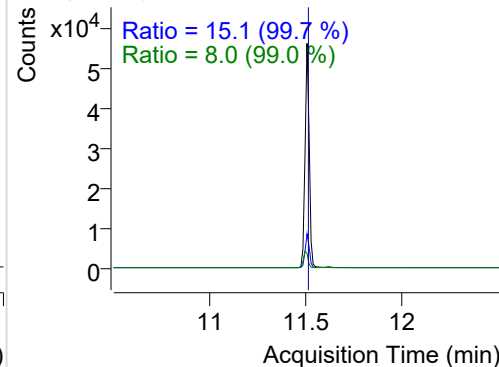


IS-D10-Phenanthrene

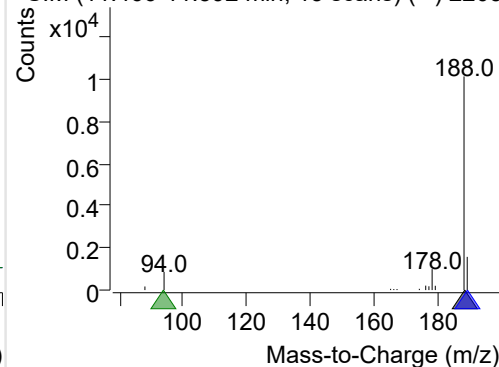
+ Selected Ion (188.0) 220302-PAHs-025.D



188.0, 189.0, 94.0

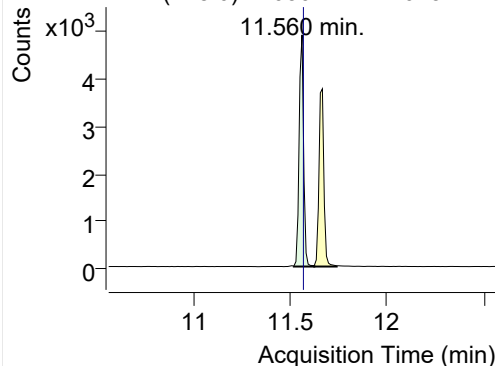


+ SIM (11.466-11.592 min, 13 scans) (**) 2203

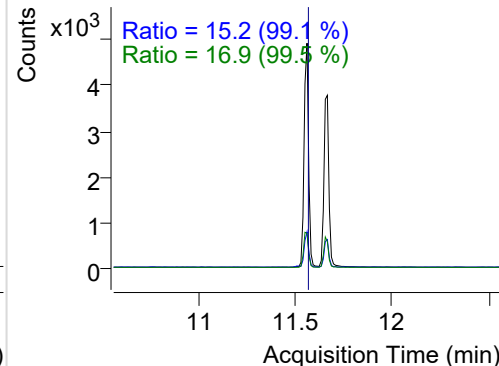


Phenanthrene

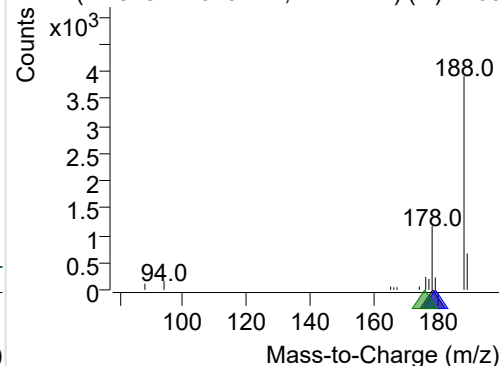
+ Selected Ion (178.0) 220302-PAHs-025.D



178.0, 179.0, 176.0

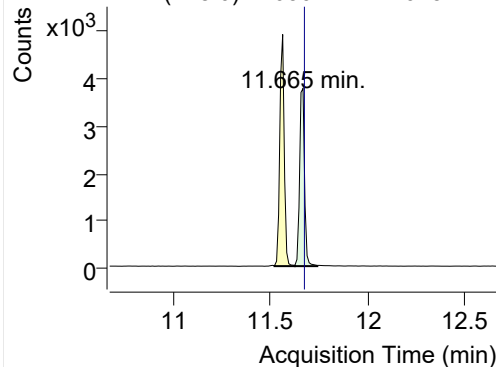


+ SIM (11.518-11.623 min, 11 scans) (**) 2203

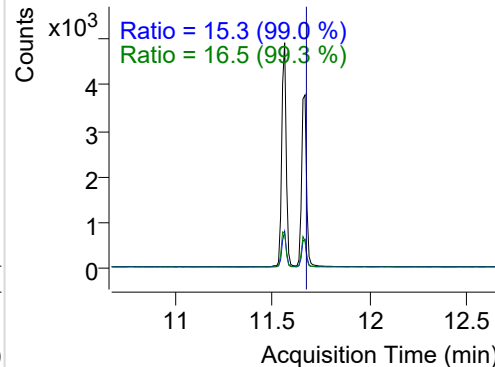


Anthracene

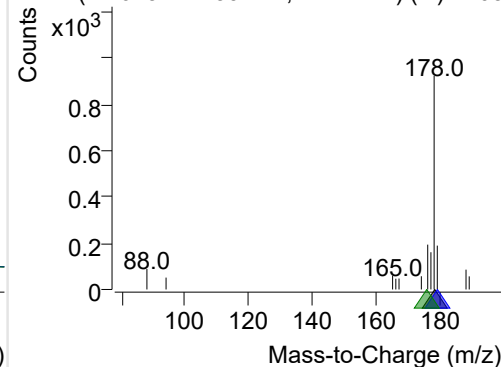
+ Selected Ion (178.0) 220302-PAHs-025.D



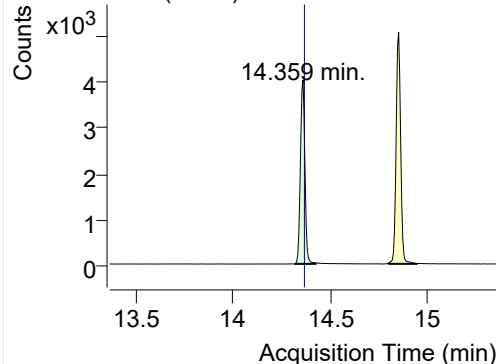
178.0, 179.0, 176.0



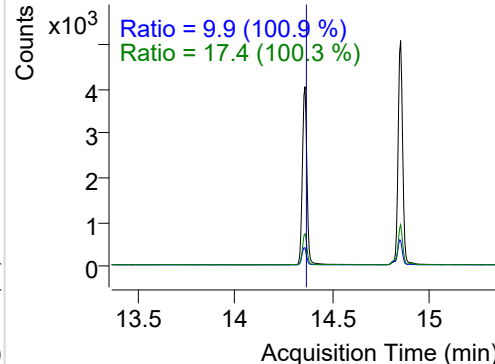
+ SIM (11.623-11.739 min, 12 scans) (**) 2203

**Fluoranthene**

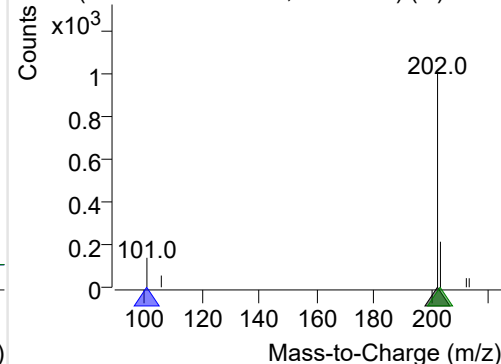
+ Selected Ion (202.0) 220302-PAHs-025.D



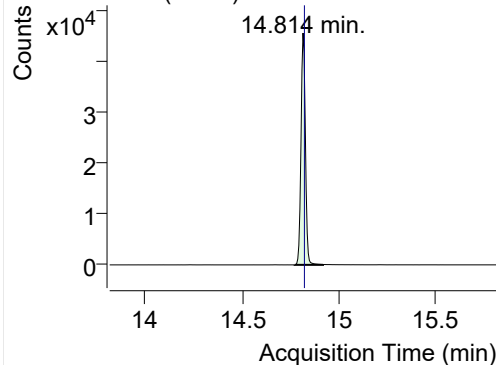
202.0, 101.0, 203.0



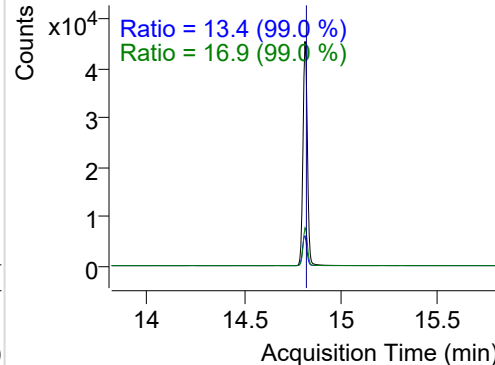
+ SIM (14.316-14.424 min, 21 scans) (**) 2203

**LSS-D10-Pyrene**

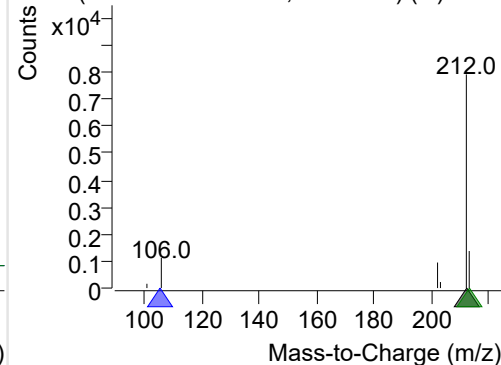
+ Selected Ion (212.0) 220302-PAHs-025.D



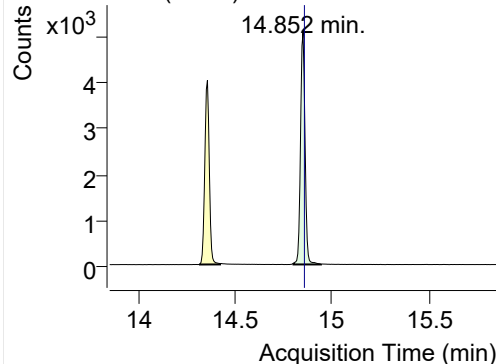
212.0, 106.0, 213.0



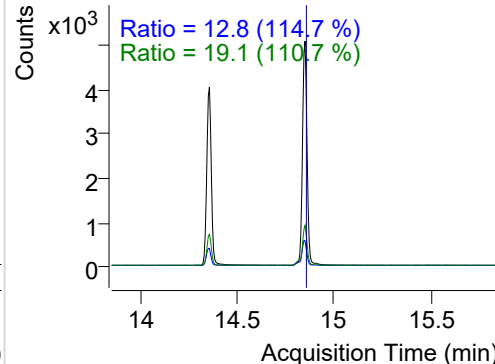
+ SIM (14.771-14.917 min, 28 scans) (**) 2203

**Pyrene**

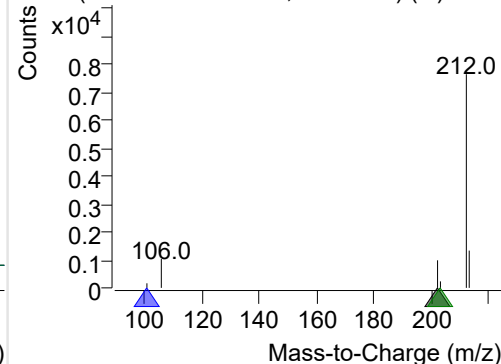
+ Selected Ion (202.0) 220302-PAHs-025.D



202.0, 101.0, 203.0

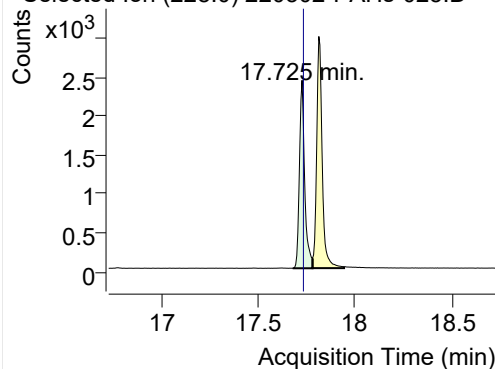


+ SIM (14.803-14.944 min, 27 scans) (**) 2203

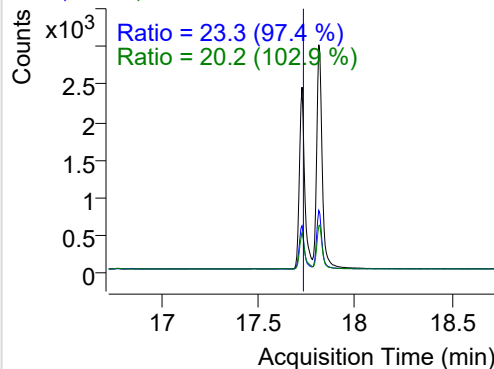


Benz(a)anthracene

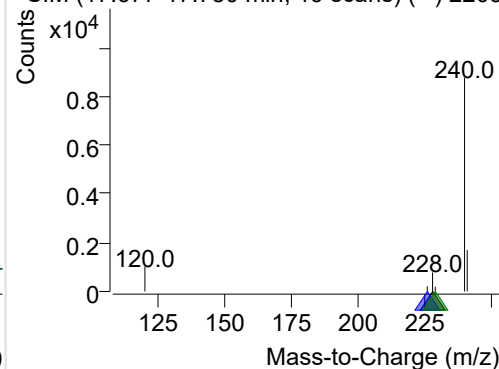
+ Selected Ion (228.0) 220302-PAHs-025.D



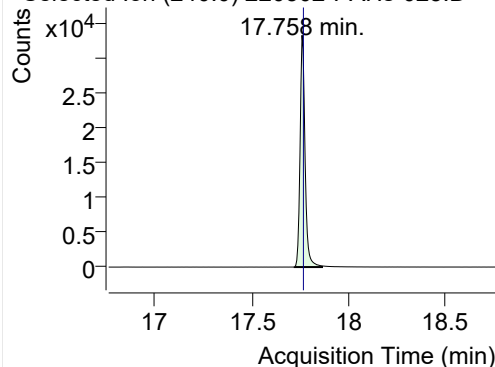
228.0, 226.0, 229.0



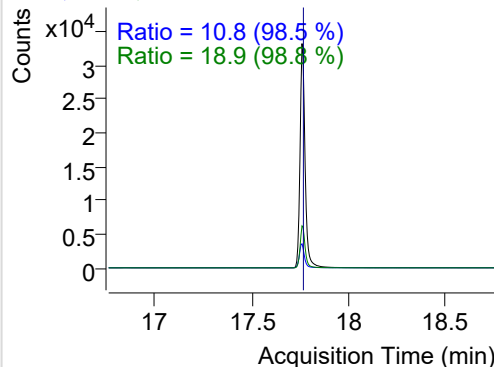
+ SIM (17.677-17.780 min, 19 scans) (**) 2203

**IS-D12-Chrysene**

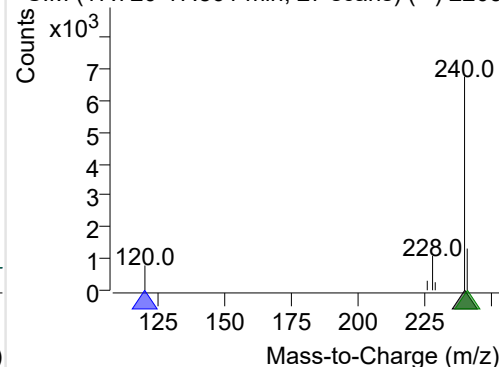
+ Selected Ion (240.0) 220302-PAHs-025.D



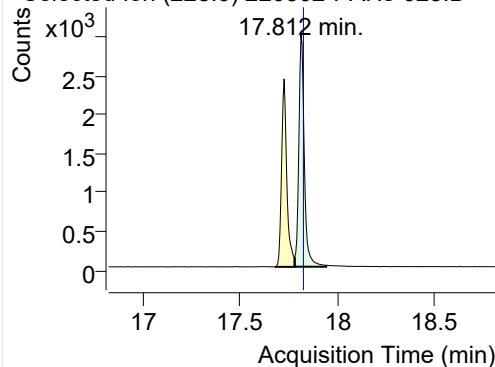
240.0, 120.0, 241.0



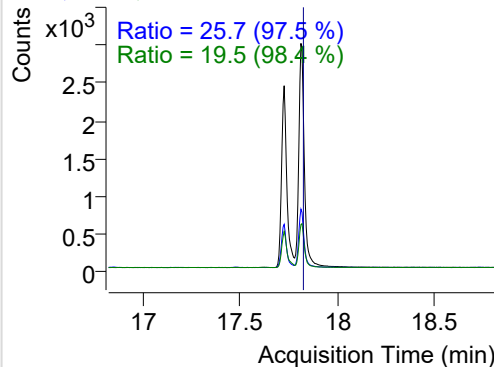
+ SIM (17.720-17.861 min, 27 scans) (**) 2203

**Chrysene**

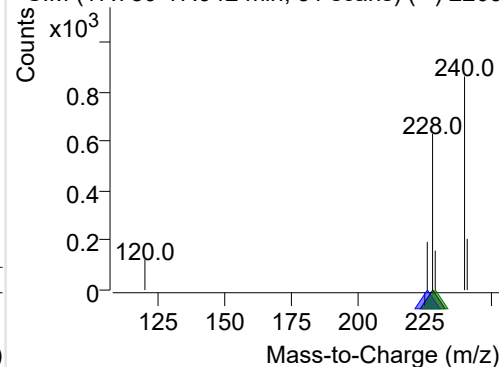
+ Selected Ion (228.0) 220302-PAHs-025.D



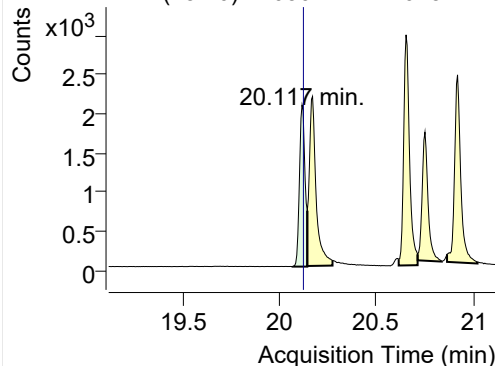
228.0, 226.0, 229.0



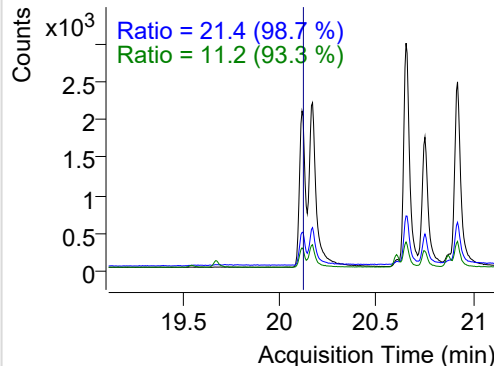
+ SIM (17.780-17.942 min, 31 scans) (**) 2203

**Benzo(b)fluoranthene**

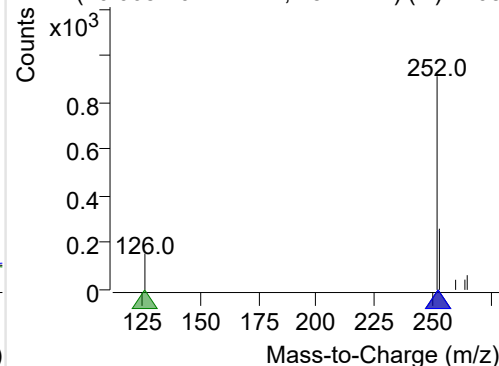
+ Selected Ion (252.0) 220302-PAHs-025.D



252.0, 253.0, 126.0

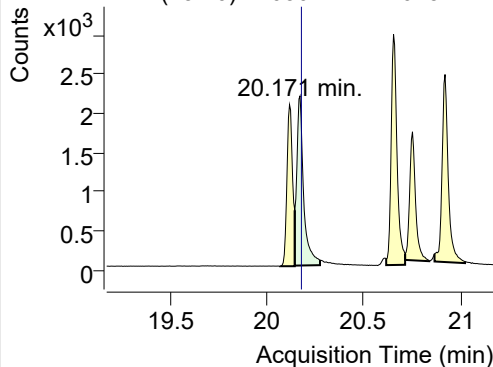


+ SIM (20.068-20.144 min, 15 scans) (**) 2203

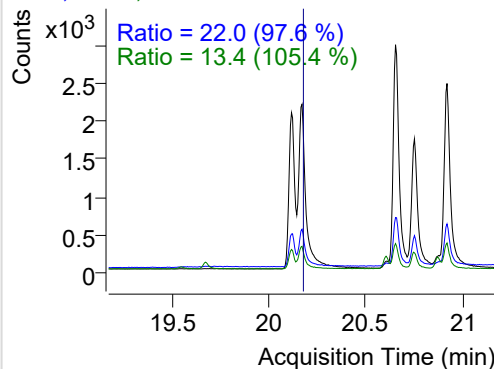


Benzo(k)fluoranthene

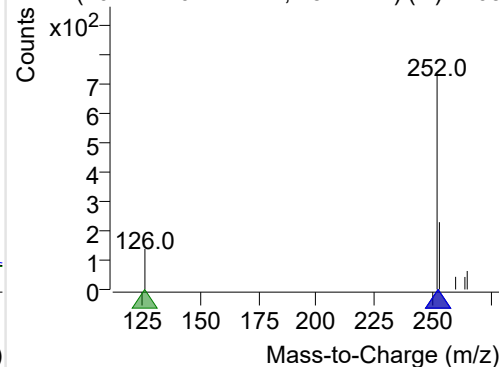
+ Selected Ion (252.0) 220302-PAHs-025.D



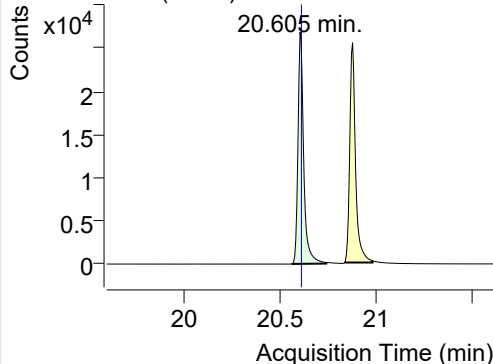
252.0, 253.0, 126.0



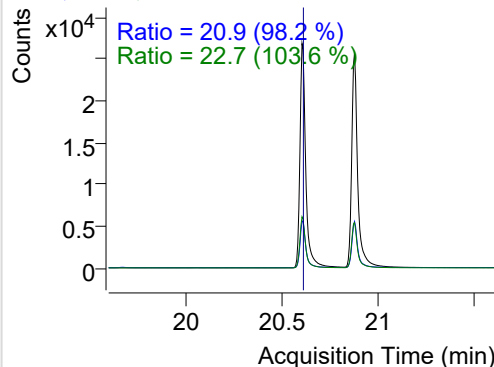
+ SIM (20.144-20.274 min, 25 scans) (**) 2203

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

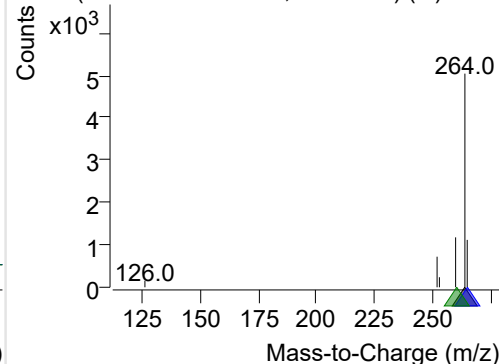
+ Selected Ion (264.0) 220302-PAHs-025.D



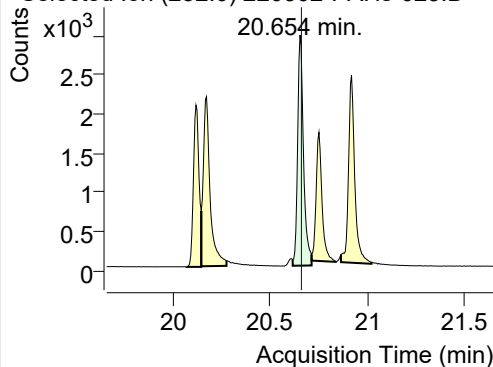
264.0, 265.0, 260.0



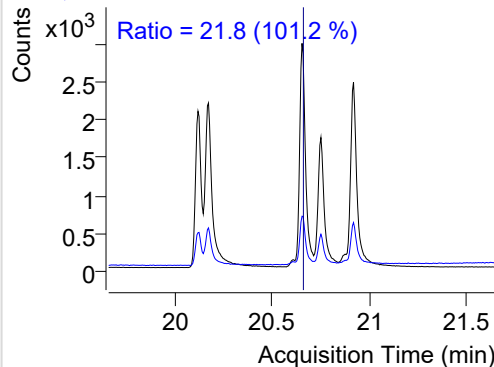
+ SIM (20.562-20.741 min, 34 scans) (**) 2203

**Benzo(e)pyrene**

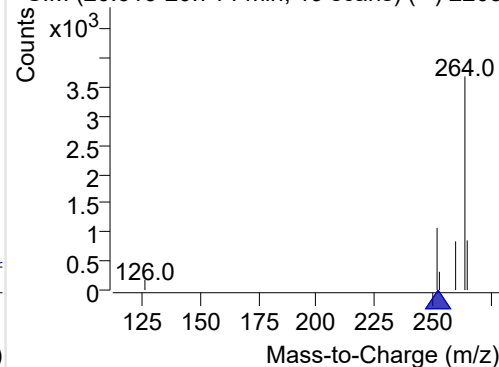
+ Selected Ion (252.0) 220302-PAHs-025.D



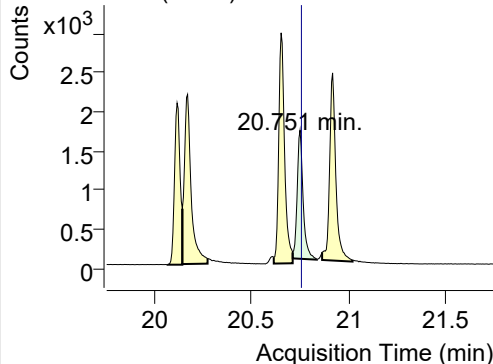
252.0, 253.0



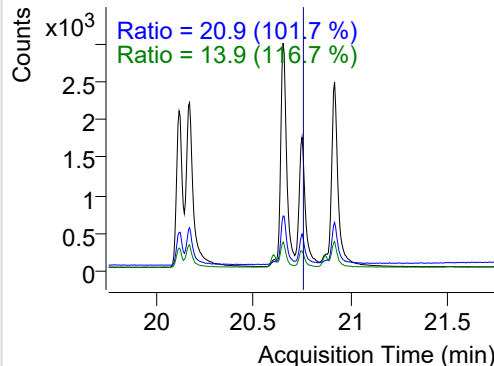
+ SIM (20.616-20.714 min, 19 scans) (**) 2203

**Benzo(a)pyrene**

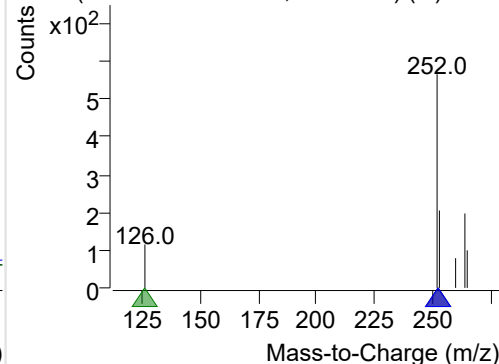
+ Selected Ion (252.0) 220302-PAHs-025.D



252.0, 253.0, 126.0

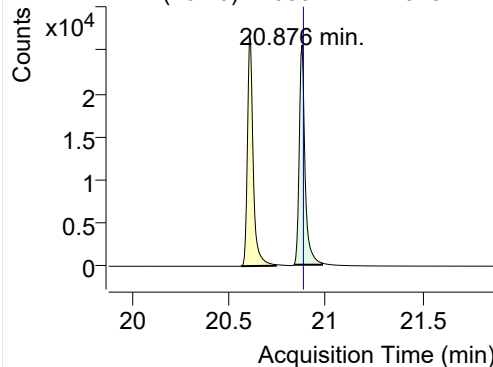


+ SIM (20.714-20.838 min, 24 scans) (**) 2203

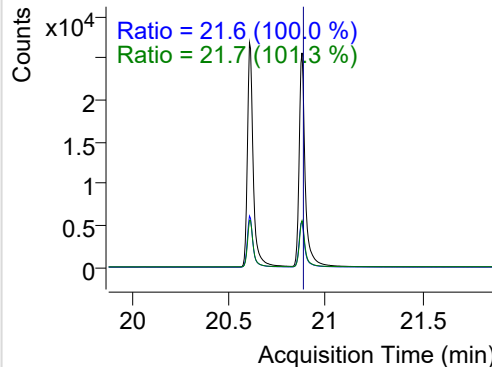


IS-D12-Perylene

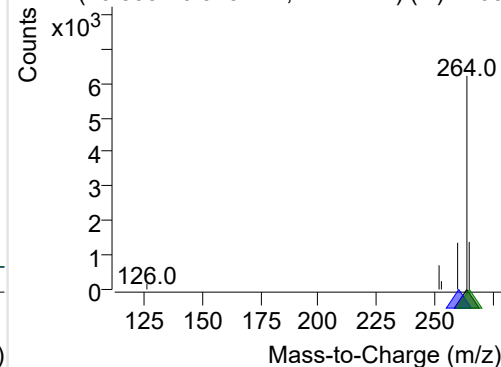
+ Selected Ion (264.0) 220302-PAHs-025.D



264.0, 260.0, 265.0

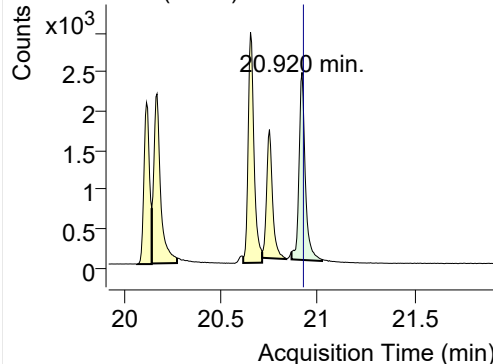


+ SIM (20.835-20.979 min, 27 scans) (**) 2203

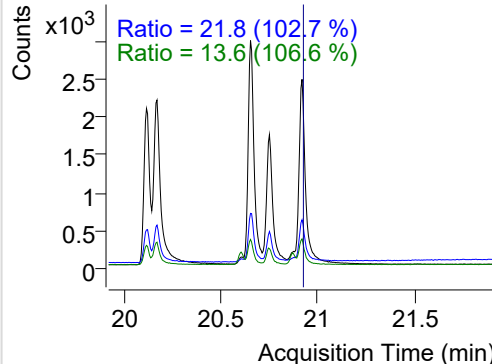


Perylene

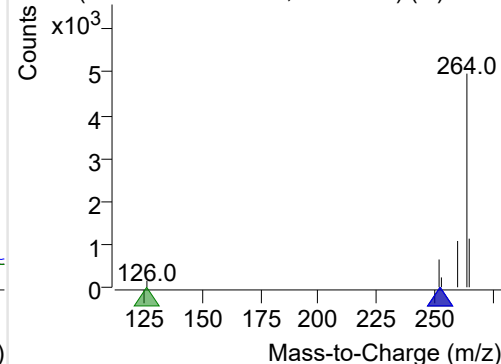
+ Selected Ion (252.0) 220302-PAHs-025.D



252.0, 253.0, 126.0

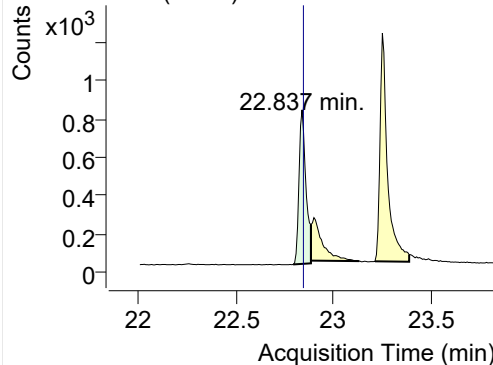


+ SIM (20.865-21.023 min, 30 scans) (**) 2203

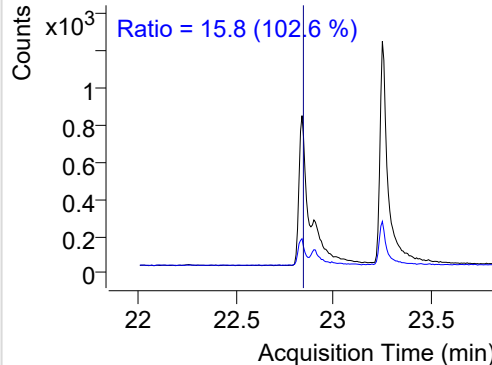


Indeno(1,2,3-c,d)pyrene

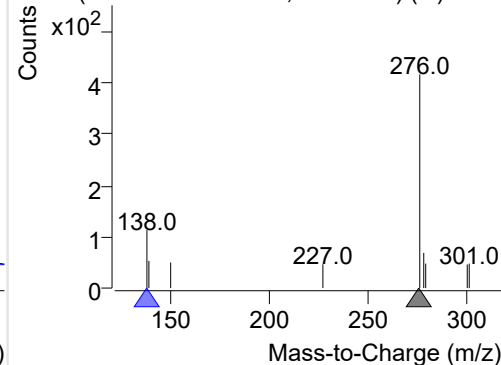
+ Selected Ion (276.0) 220302-PAHs-025.D



276.0, 138.0

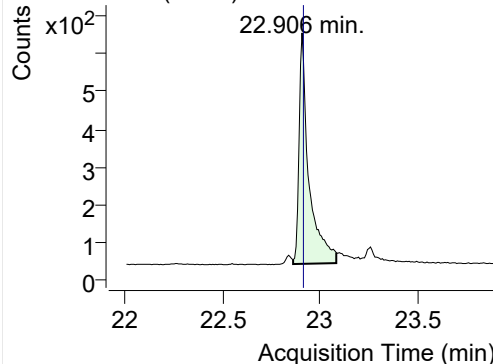


+ SIM (22.791-22.883 min, 12 scans) (**) 2203

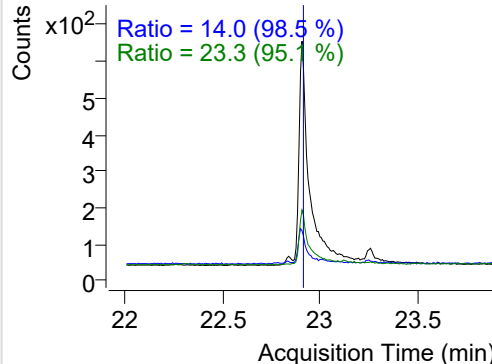


Dibenz(a,h)anthracene

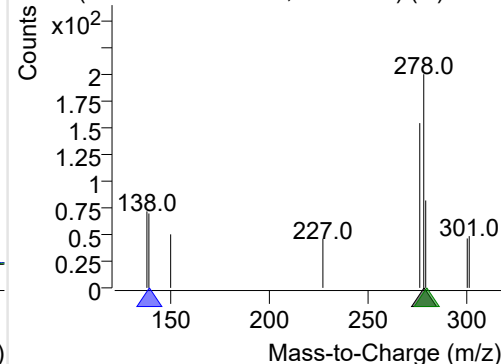
+ Selected Ion (278.0) 220302-PAHs-025.D



278.0, 139.0, 279.0

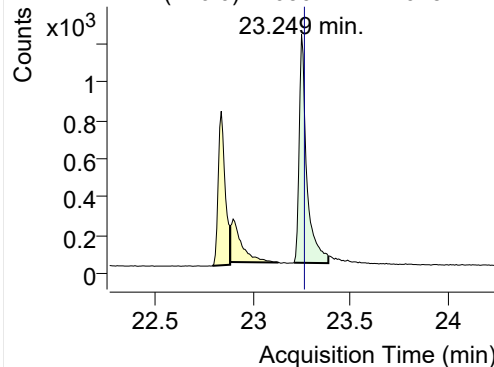


+ SIM (22.860-23.081 min, 30 scans) (**) 2203

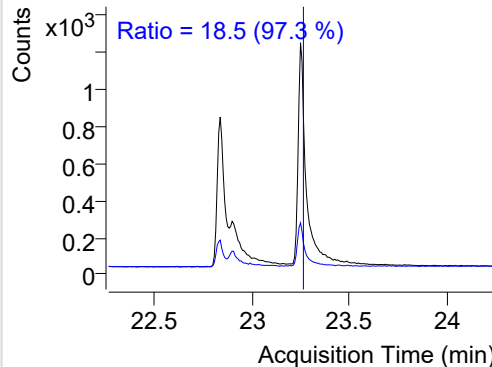


Benzo(g,h,i)perylene

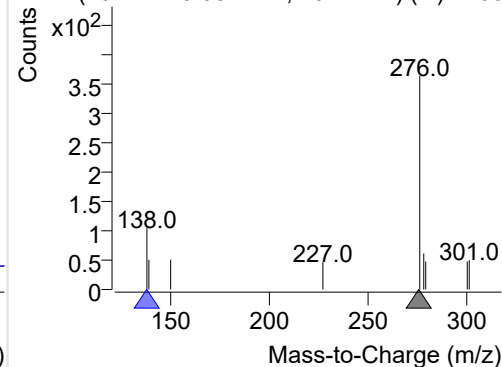
+ Selected Ion (276.0) 220302-PAHs-025.D



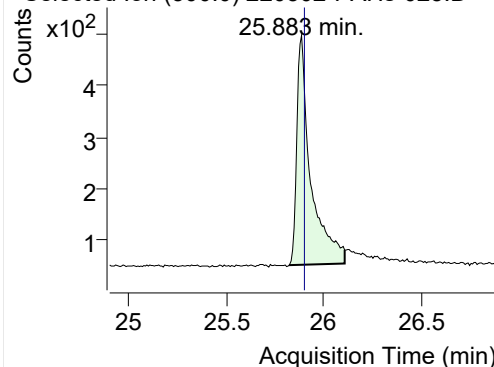
276.0, 138.0



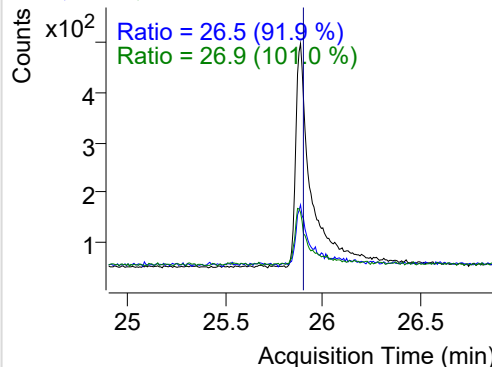
+ SIM (23.211-23.387 min, 23 scans) (**) 2203

**Coronene**

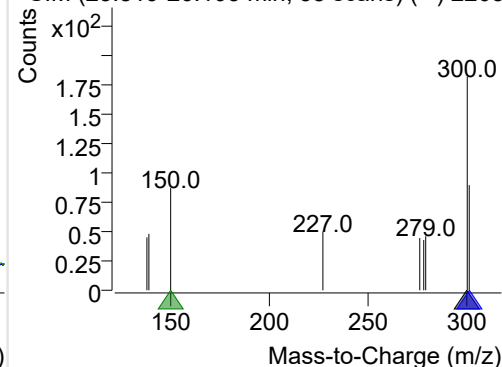
+ Selected Ion (300.0) 220302-PAHs-025.D



300.0, 301.0, 150.0



+ SIM (25.819-26.105 min, 38 scans) (**) 2203



Quantitative Analysis Sample Based Report

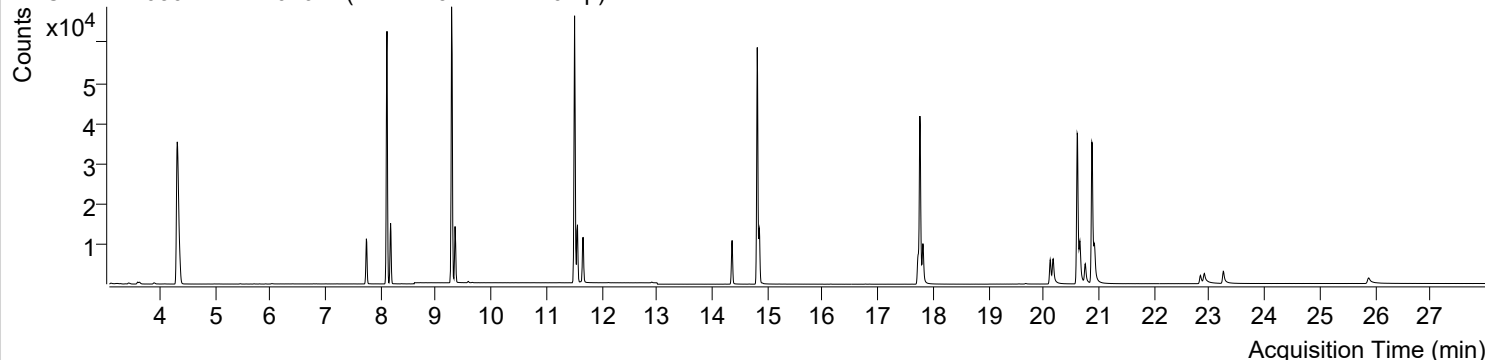


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-02 오후 10:46:46	Data File	220302-PAHs-026.D
Type	Cal	Name	PAHs-19mix-STD-0.2p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

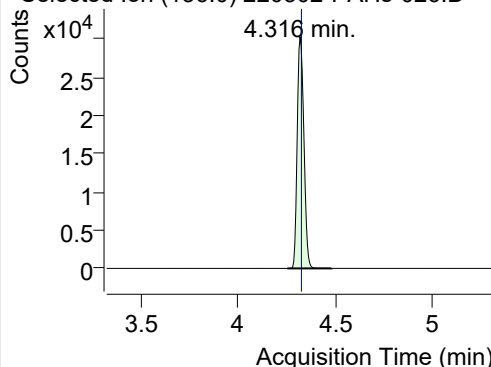
+ TIC SIM 220302-PAHs-026.D (PAHs-19mix-STD-0.2p)



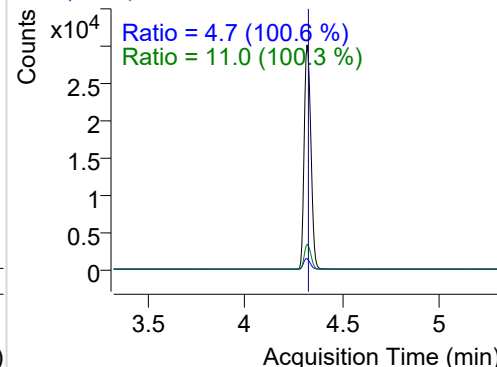
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.316	136.0	72312	30259.86	ND ng/ml	11.0
Naphthalene	4.349	128.0	15768	6554.57	ND ng/ml	13.4
Acenaphthylene	7.739	152.0	12751	8360.62	ND ng/ml	19.5
IS-D10-Acenaphthene	8.112	164.0	45267	31063.32	ND ng/ml	90.0
Acenaphthene	8.177	154.0	8312	5568.51	ND ng/ml	102.7
LSS-D10-Fluorene	9.282	176.0	50306	31797.44	ND ng/ml	86.8
Fluorene	9.345	166.0	10159	6736.91	ND ng/ml	89.2
IS-D10-Phenanthrene	11.508	188.0	81125	54004.59	ND ng/ml	15.1
Phenanthrene	11.560	178.0	15393	9551.13	ND ng/ml	17.1
Anthracene	11.665	178.0	13331	7759.73	ND ng/ml	16.7
Fluoranthene	14.359	202.0	13496	8528.78	ND ng/ml	17.4
LSS-D10-Pyrene	14.815	212.0	68944	44739.86	ND ng/ml	16.9
Pyrene	14.852	202.0	16570	10171.86	ND ng/ml	18.0
Benz(a)anthracene	17.726	228.0	9469	4802.78	ND ng/ml	23.6
IS-D12-Chrysene	17.758	240.0	58367	31372.54	ND ng/ml	19.1
Chrysene	17.812	228.0	12088	6085.03	ND ng/ml	26.0
Benzo(b)fluoranthene	20.117	252.0	8608	4488.00	ND ng/ml	21.5
Benzo(k)fluoranthene	20.171	252.0	11834	4609.17	ND ng/ml	22.0
SS-D12-Benzo(e)pyrene	20.605	264.0	53960	25675.46	ND ng/ml	22.6
Benzo(e)pyrene	20.654	252.0	12558	6001.08	ND ng/ml	20.4
Benzo(a)pyrene	20.752	252.0	7290	3321.27	ND ng/ml	22.4
IS-D12-Perylene	20.871	264.0	52846	24186.01	ND ng/ml	21.2
Perylene	20.920	252.0	10644	4714.40	ND ng/ml	22.6
Indeno(1,2,3-c,d)pyrene	22.837	276.0	4107	1673.06	ND ng/ml	16.0
Dibenz(a,h)anthracene	22.906	278.0	4706	1283.75	ND ng/ml	22.5
Benzo(g,h,i)perylene	23.249	276.0	6888	2369.90	ND ng/ml	19.4
Coronene	25.884	300.0	4808	907.53	ND ng/ml	26.2

IS-D8-Naphthalene

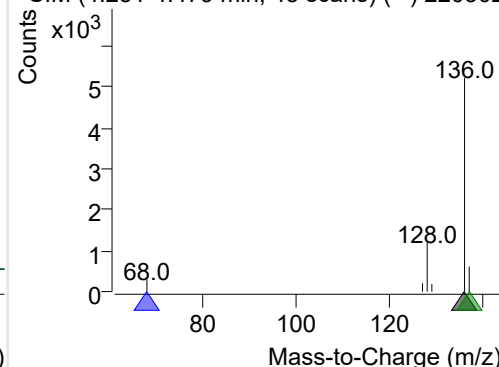
+ Selected Ion (136.0) 220302-PAHs-026.D



136.0, 68.0, 137.0

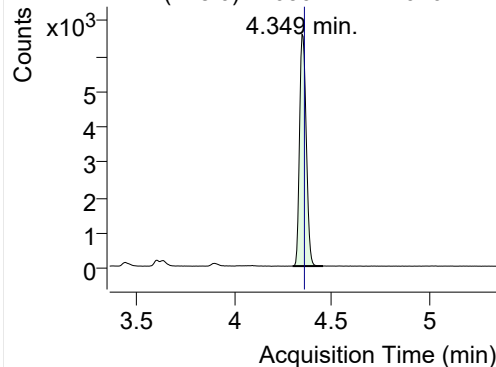


+ SIM (4.251-4.479 min, 43 scans) (**) 220302

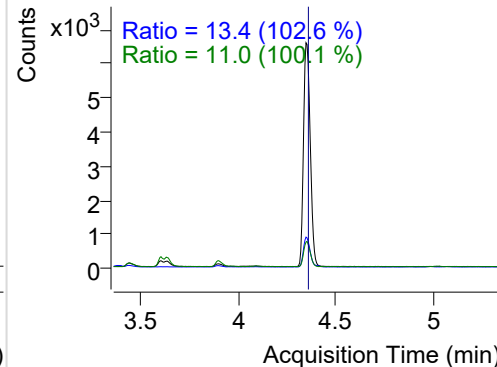


Naphthalene

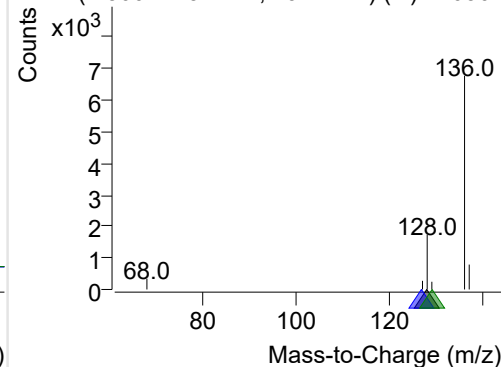
+ Selected Ion (128.0) 220302-PAHs-026.D



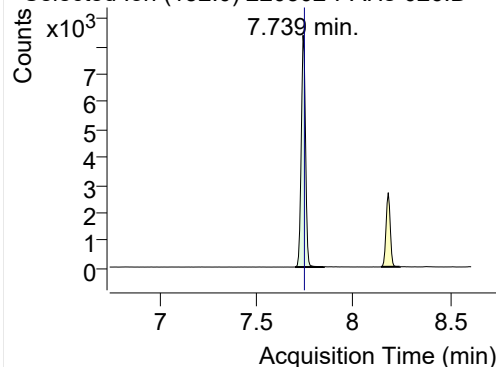
128.0, 127.0, 129.0



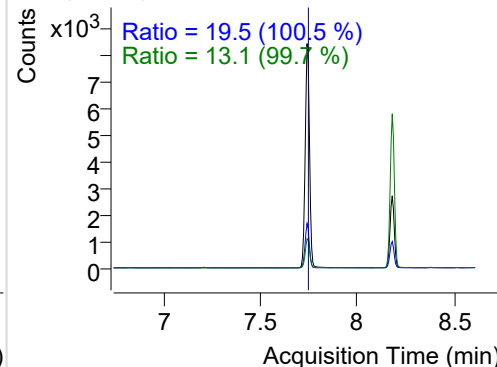
+ SIM (4.300-4.457 min, 29 scans) (**) 220302

**Acenaphthylene**

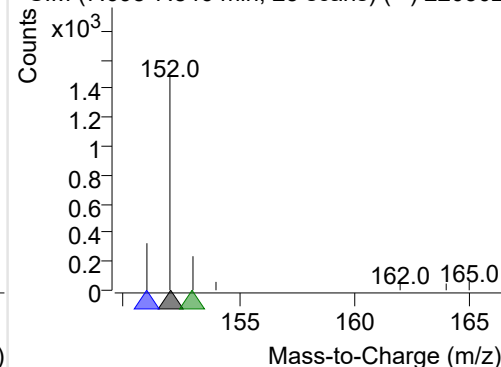
+ Selected Ion (152.0) 220302-PAHs-026.D



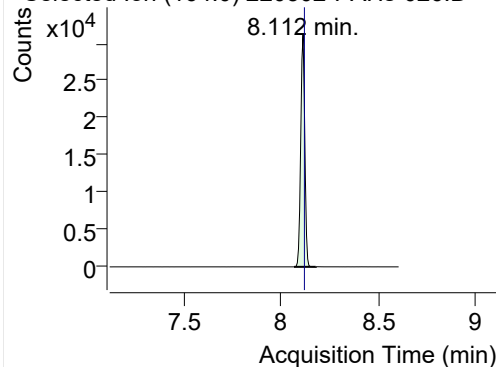
152.0, 151.0, 153.0



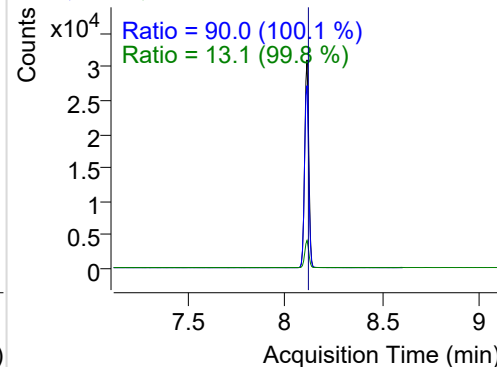
+ SIM (7.698-7.846 min, 25 scans) (**) 220302

**IS-D10-Acenaphthene**

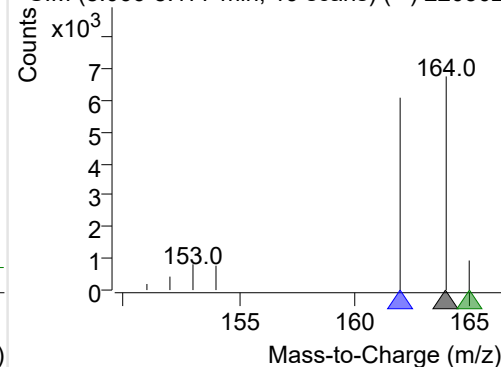
+ Selected Ion (164.0) 220302-PAHs-026.D



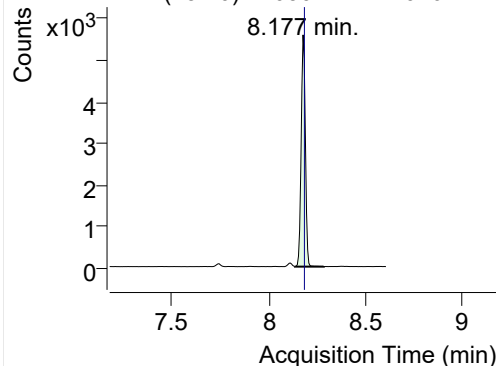
164.0, 162.0, 165.0



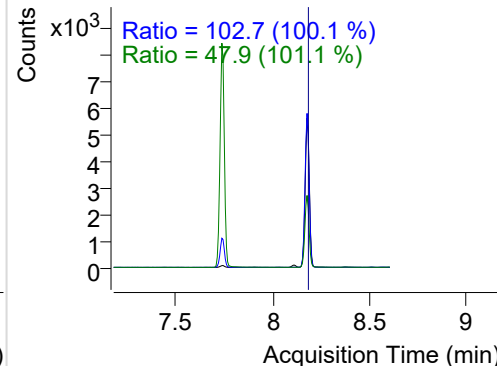
+ SIM (8.066-8.177 min, 19 scans) (**) 220302

**Acenaphthene**

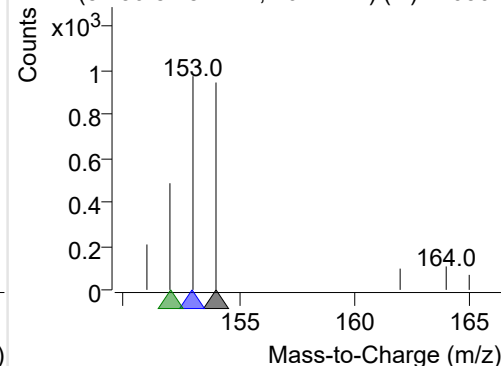
+ Selected Ion (154.0) 220302-PAHs-026.D



154.0, 153.0, 152.0

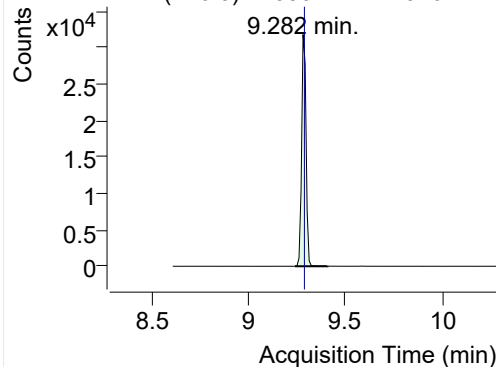


+ SIM (8.136-8.284 min, 26 scans) (**) 220302

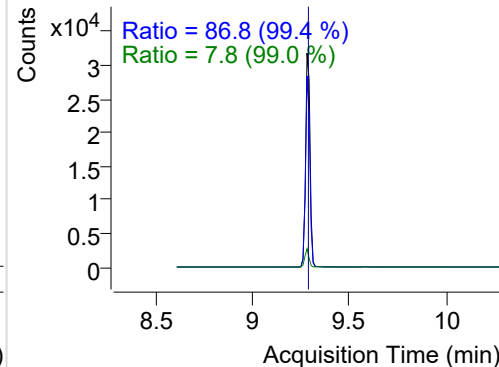


LSS-D10-Fluorene

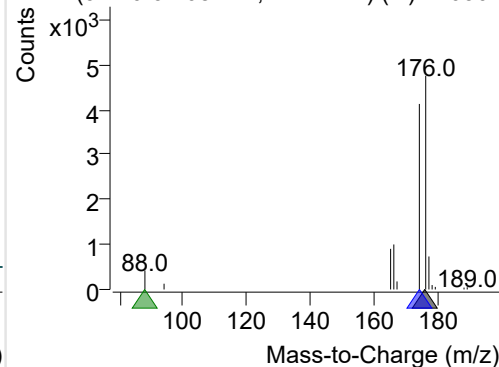
+ Selected Ion (176.0) 220302-PAHs-026.D



176.0, 174.0, 88.0

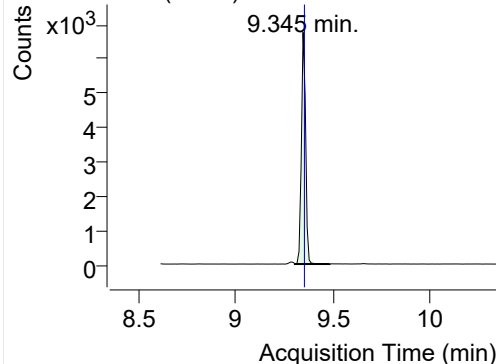


+ SIM (9.240-9.408 min, 17 scans) (**) 220302

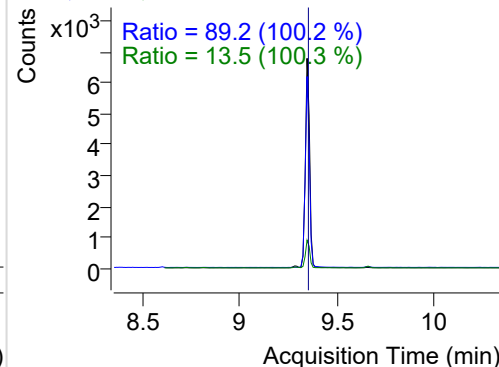


Fluorene

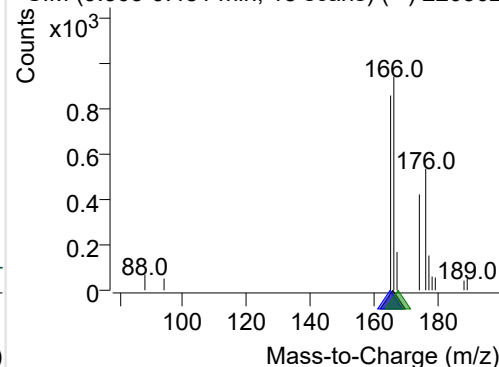
+ Selected Ion (166.0) 220302-PAHs-026.D



166.0, 165.0, 167.0

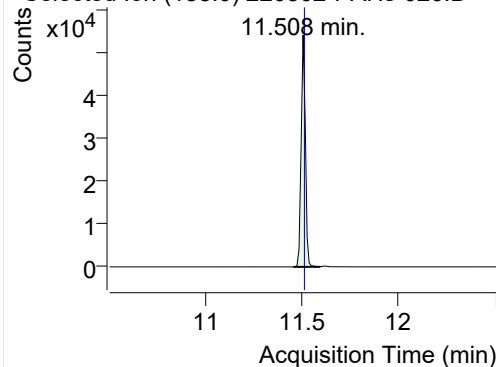


+ SIM (9.303-9.481 min, 18 scans) (**) 220302

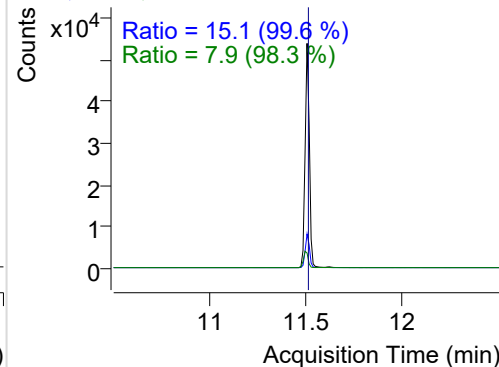


IS-D10-Phenanthrene

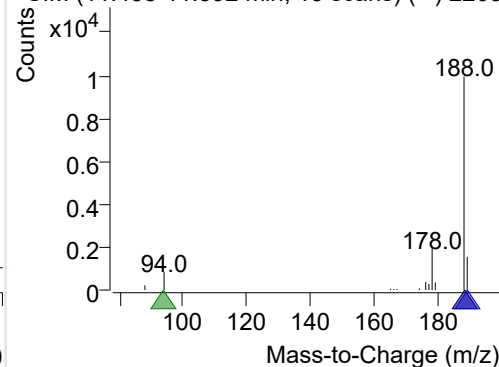
+ Selected Ion (188.0) 220302-PAHs-026.D



188.0, 189.0, 94.0

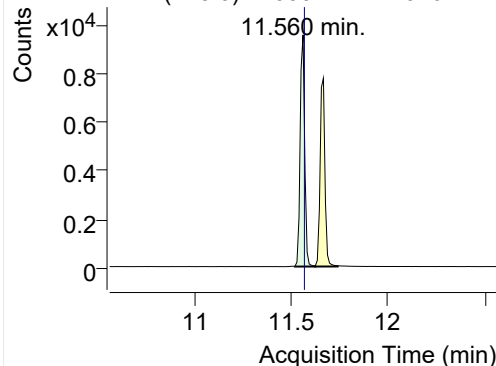


+ SIM (11.458-11.592 min, 13 scans) (**) 2203

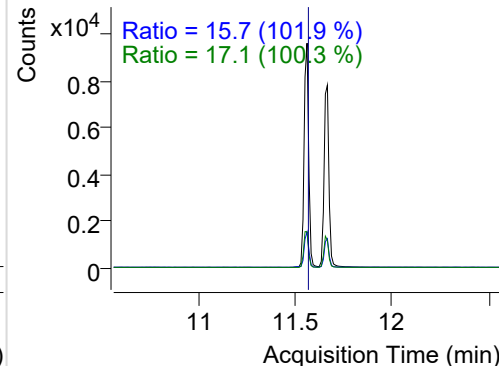


Phenanthrene

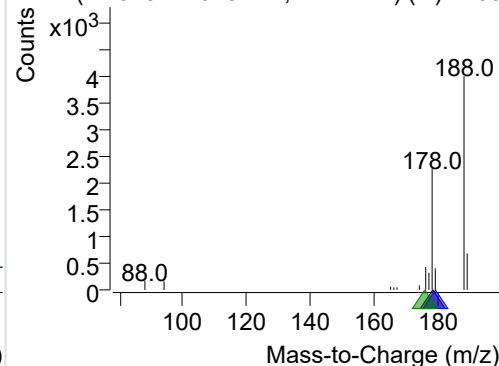
+ Selected Ion (178.0) 220302-PAHs-026.D



178.0, 179.0, 176.0

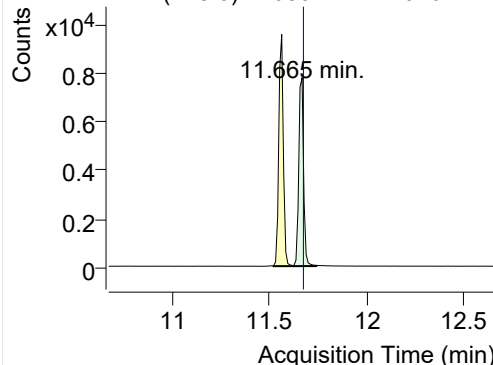


+ SIM (11.518-11.623 min, 11 scans) (**) 2203

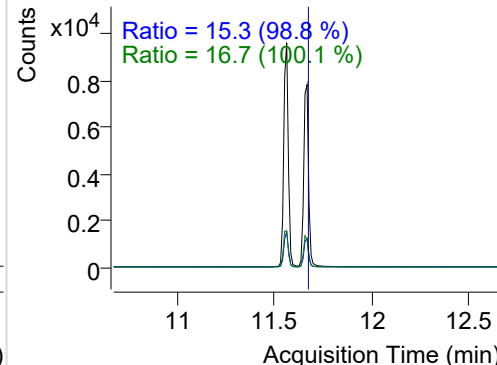


Anthracene

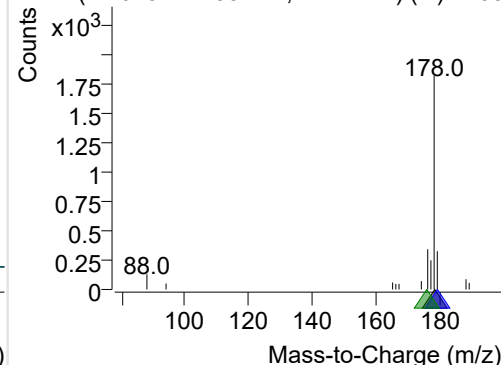
+ Selected Ion (178.0) 220302-PAHs-026.D



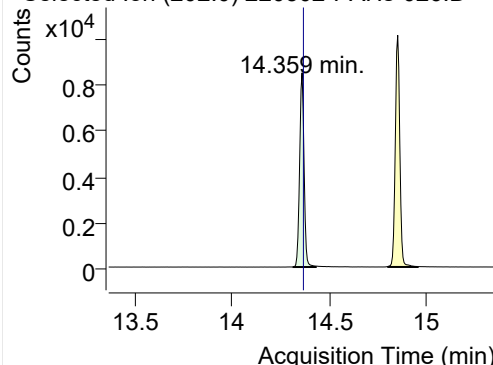
178.0, 179.0, 176.0



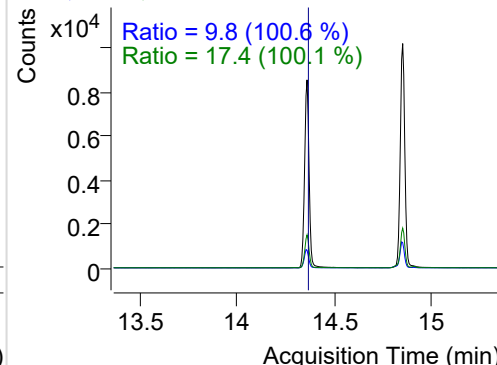
+ SIM (11.623-11.739 min, 12 scans) (**) 2203

**Fluoranthene**

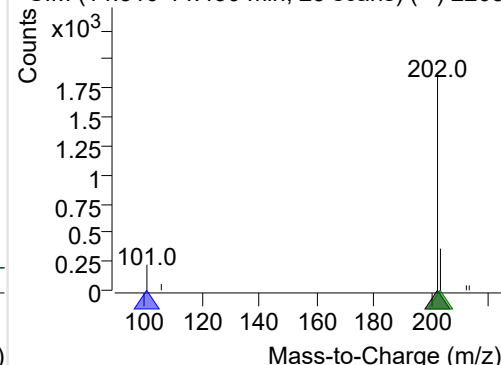
+ Selected Ion (202.0) 220302-PAHs-026.D



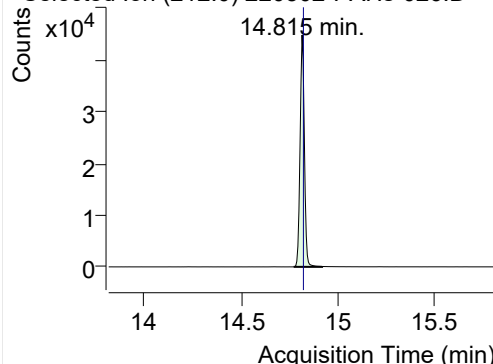
202.0, 101.0, 203.0



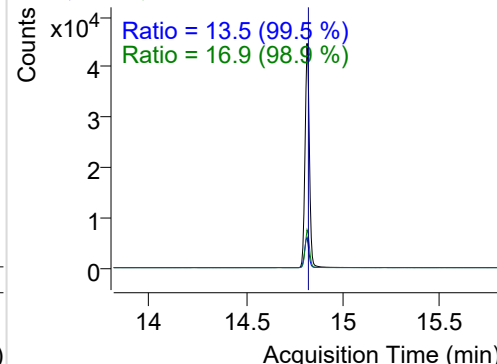
+ SIM (14.310-14.430 min, 23 scans) (**) 2203

**LSS-D10-Pyrene**

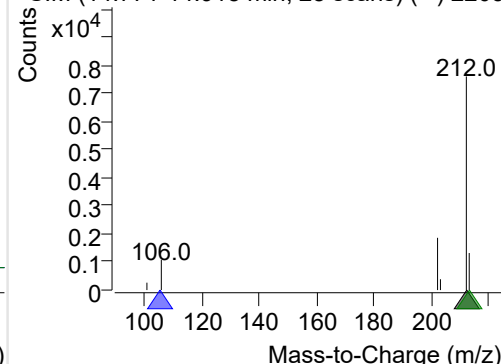
+ Selected Ion (212.0) 220302-PAHs-026.D



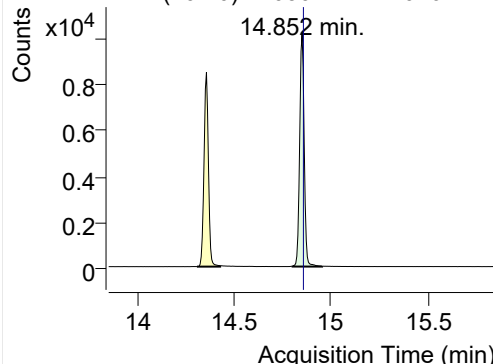
212.0, 106.0, 213.0



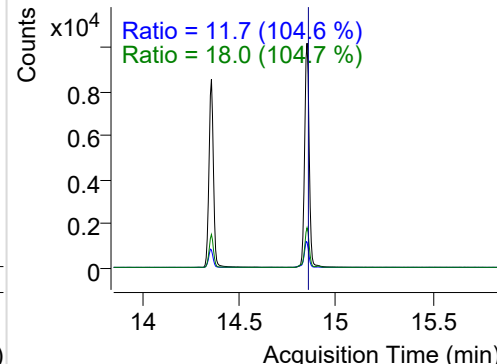
+ SIM (14.771-14.918 min, 28 scans) (**) 2203

**Pyrene**

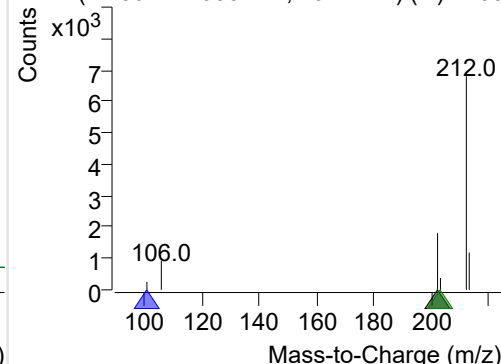
+ Selected Ion (202.0) 220302-PAHs-026.D



202.0, 101.0, 203.0

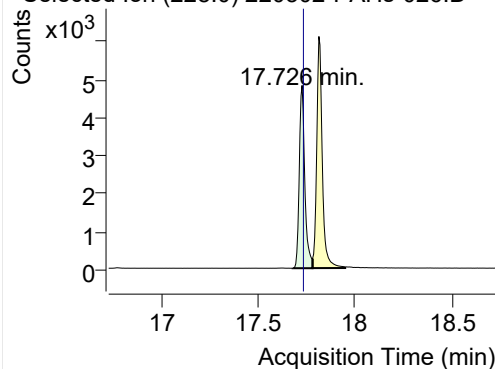


+ SIM (14.804-14.955 min, 29 scans) (**) 2203

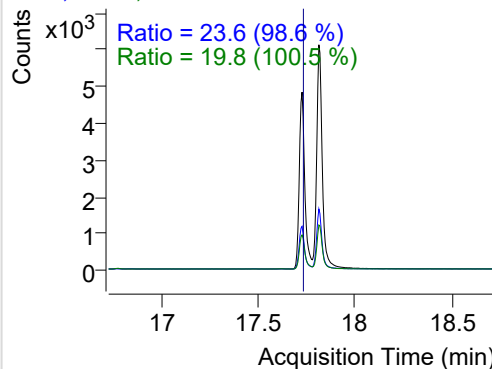


Benz(a)anthracene

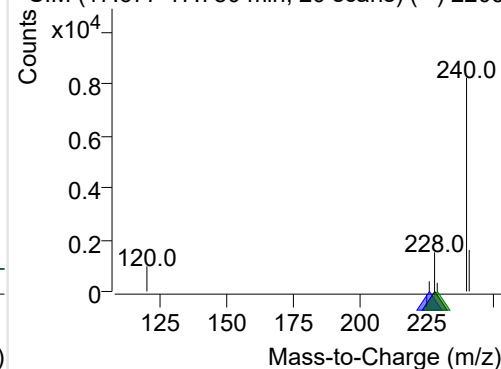
+ Selected Ion (228.0) 220302-PAHs-026.D



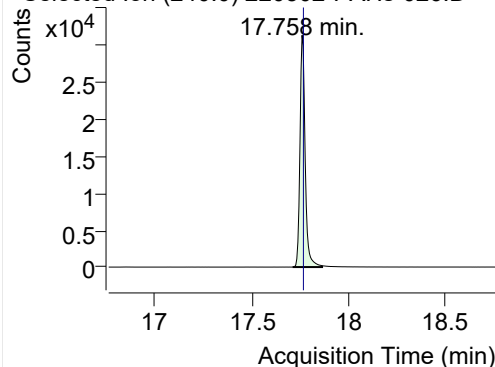
228.0, 226.0, 229.0



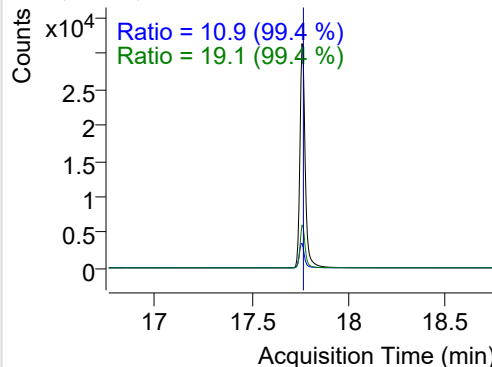
+ SIM (17.677-17.780 min, 20 scans) (**) 2203

**IS-D12-Chrysene**

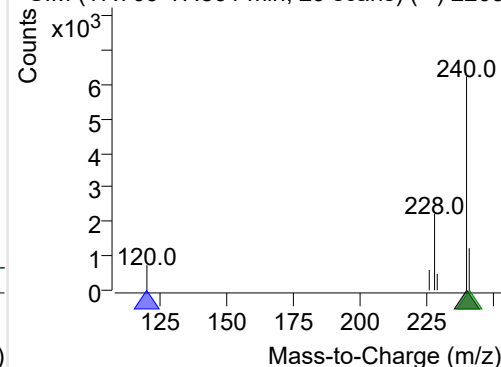
+ Selected Ion (240.0) 220302-PAHs-026.D



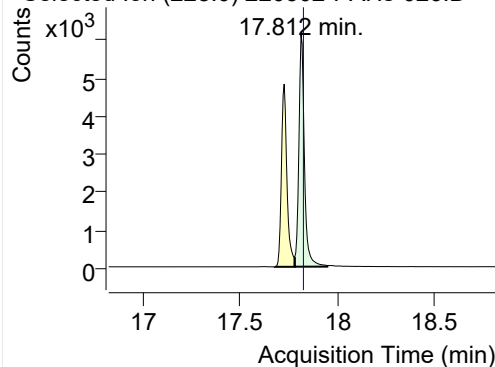
240.0, 120.0, 241.0



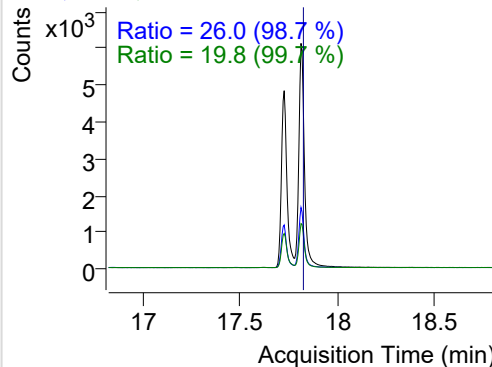
+ SIM (17.709-17.861 min, 29 scans) (**) 2203

**Chrysene**

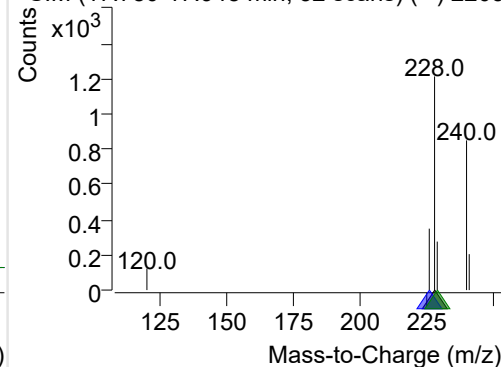
+ Selected Ion (228.0) 220302-PAHs-026.D



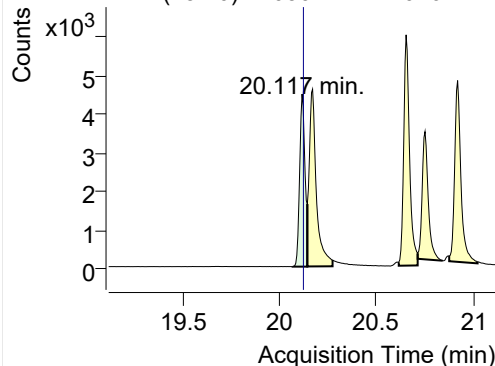
228.0, 226.0, 229.0



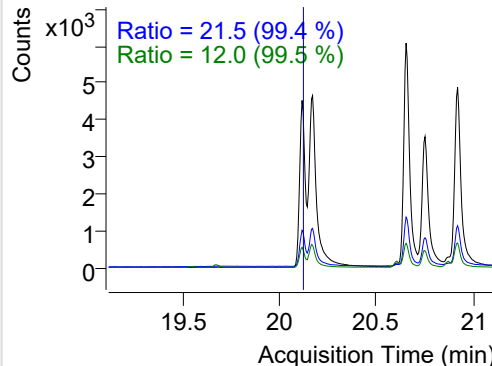
+ SIM (17.780-17.948 min, 32 scans) (**) 2203

**Benzo(b)fluoranthene**

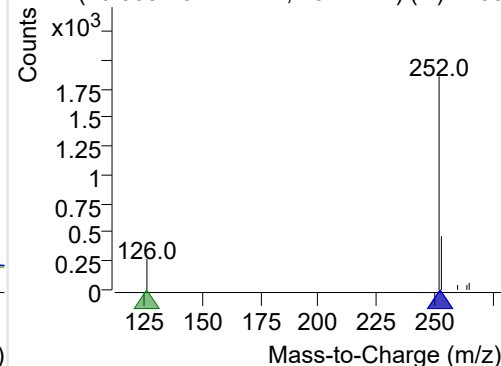
+ Selected Ion (252.0) 220302-PAHs-026.D



252.0, 253.0, 126.0

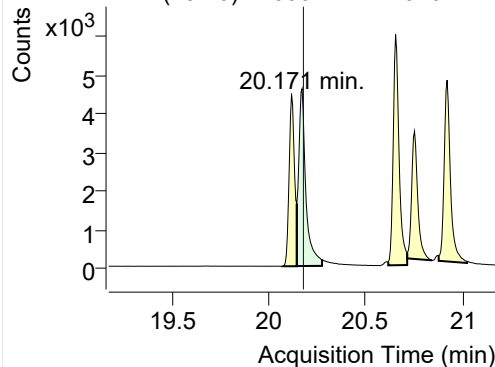


+ SIM (20.068-20.144 min, 15 scans) (**) 2203

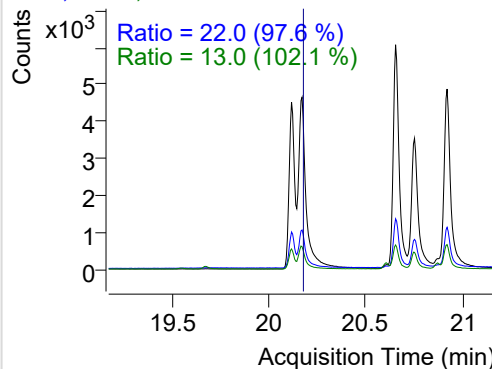


Benzo(k)fluoranthene

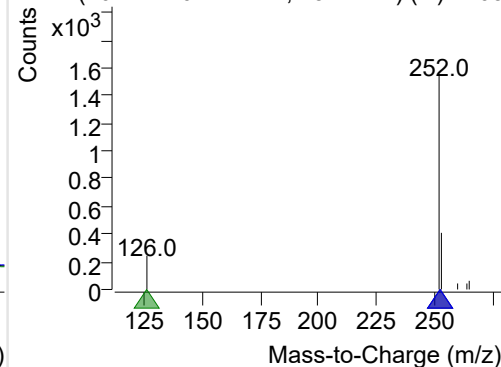
+ Selected Ion (252.0) 220302-PAHs-026.D



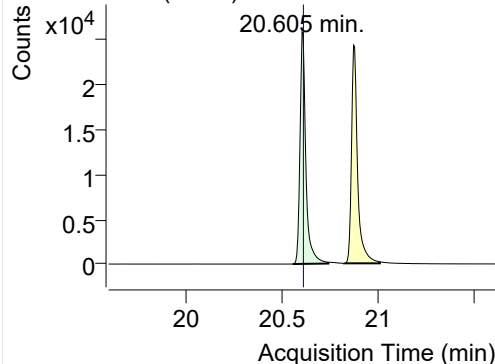
252.0, 253.0, 126.0



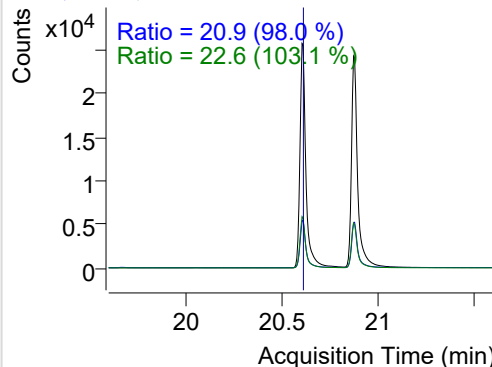
+ SIM (20.144-20.274 min, 25 scans) (**) 2203

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

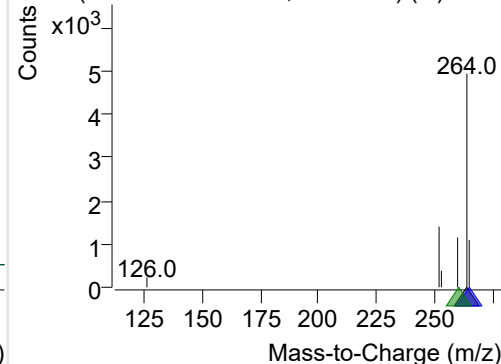
+ Selected Ion (264.0) 220302-PAHs-026.D



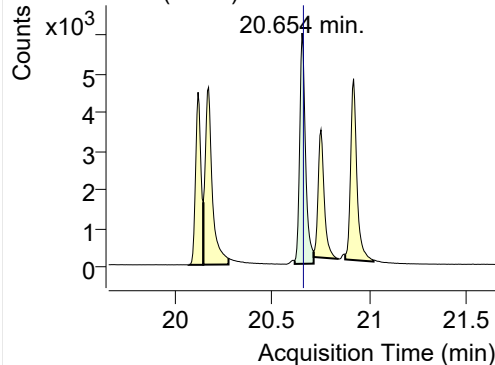
264.0, 265.0, 260.0



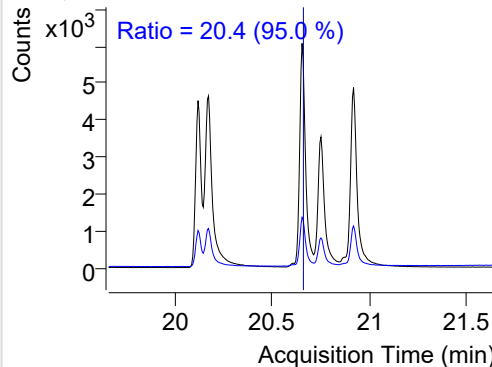
+ SIM (20.557-20.741 min, 34 scans) (**) 2203

**Benzo(e)pyrene**

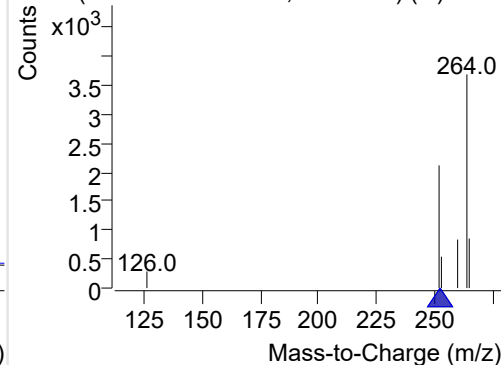
+ Selected Ion (252.0) 220302-PAHs-026.D



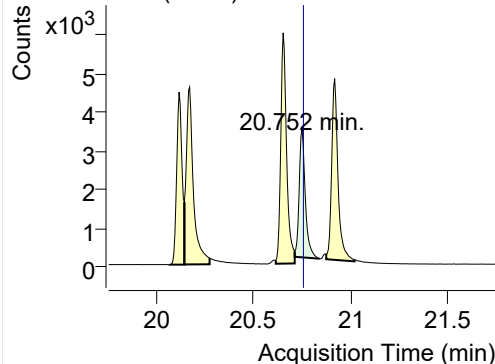
252.0, 253.0



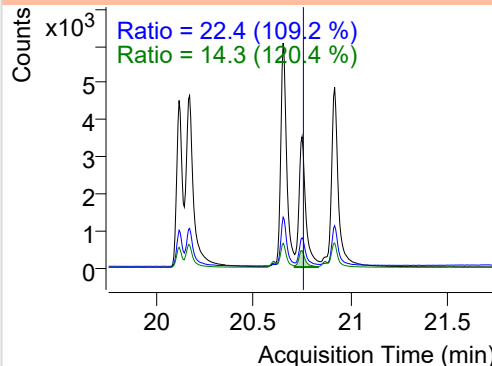
+ SIM (20.616-20.714 min, 19 scans) (**) 2203

**Benzo(a)pyrene**

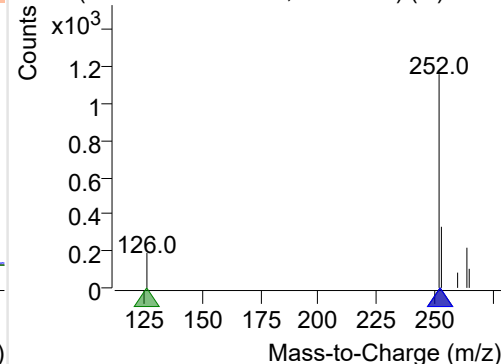
+ Selected Ion (252.0) 220302-PAHs-026.D



252.0, 253.0, 126.0

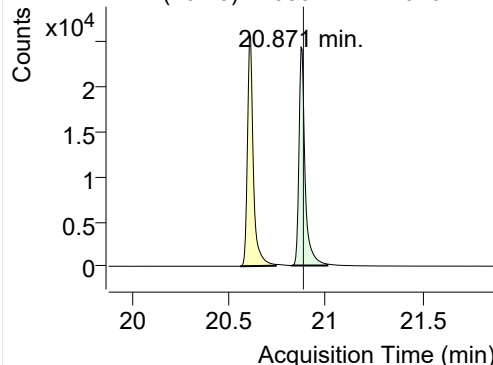


+ SIM (20.714-20.842 min, 24 scans) (**) 2203

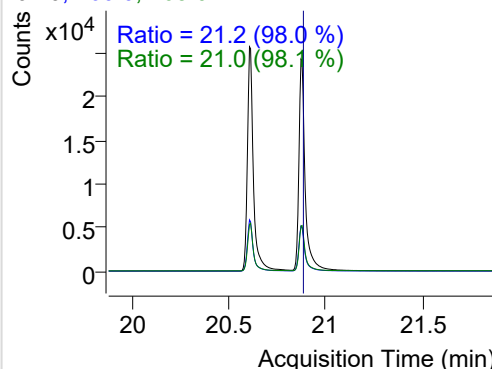


IS-D12-Perylene

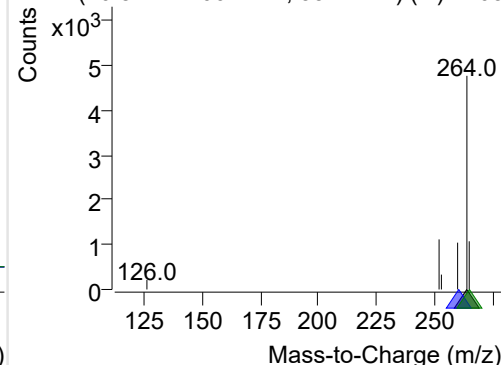
+ Selected Ion (264.0) 220302-PAHs-026.D



264.0, 260.0, 265.0

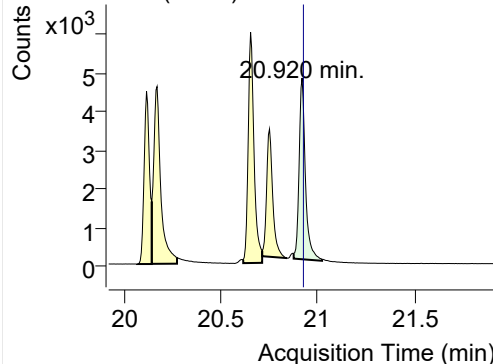


+ SIM (20.822-21.007 min, 35 scans) (**) 2203

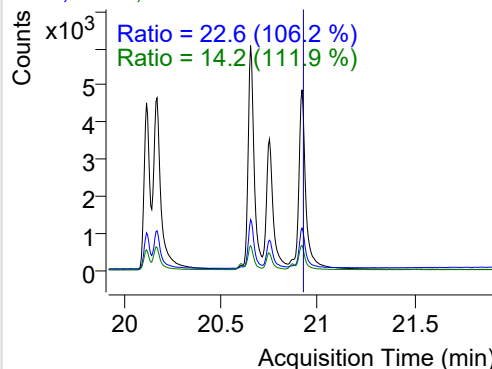


Perylene

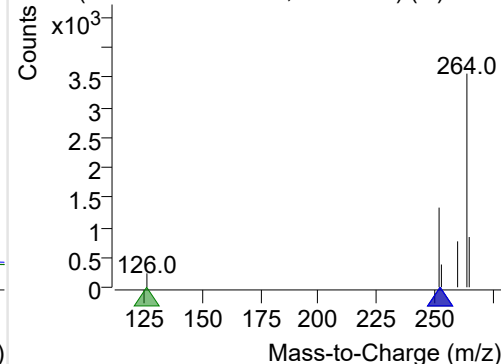
+ Selected Ion (252.0) 220302-PAHs-026.D



252.0, 253.0, 126.0

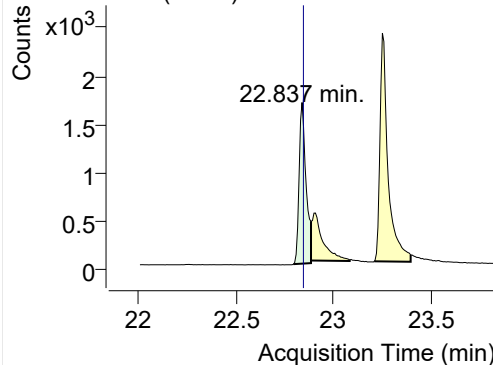


+ SIM (20.876-21.023 min, 28 scans) (**) 2203

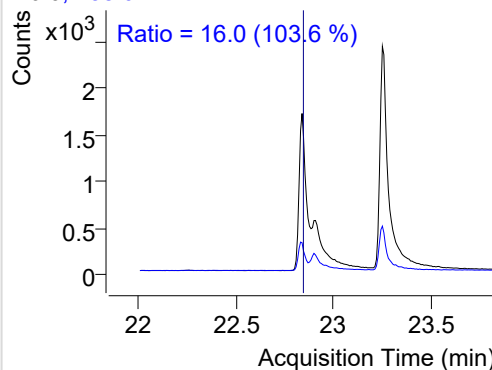


Indeno(1,2,3-c,d)pyrene

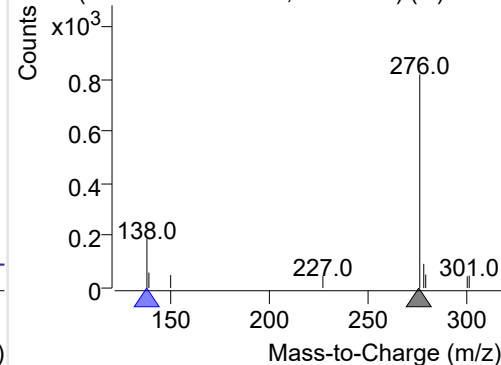
+ Selected Ion (276.0) 220302-PAHs-026.D



276.0, 138.0

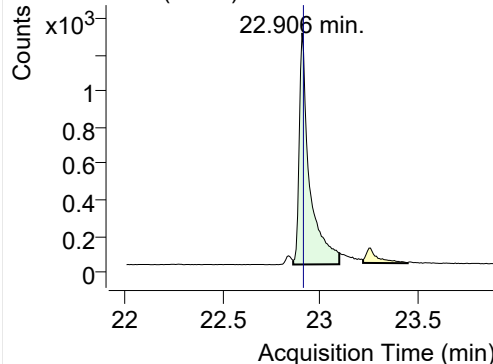


+ SIM (22.793-22.883 min, 12 scans) (**) 2203

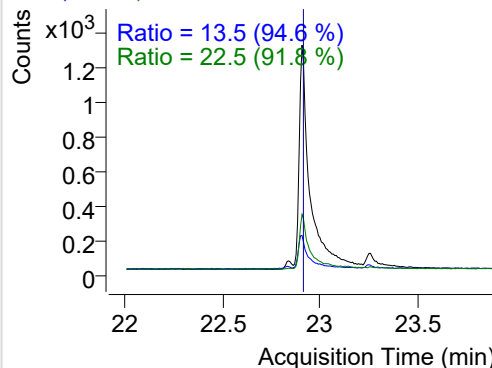


Dibenz(a,h)anthracene

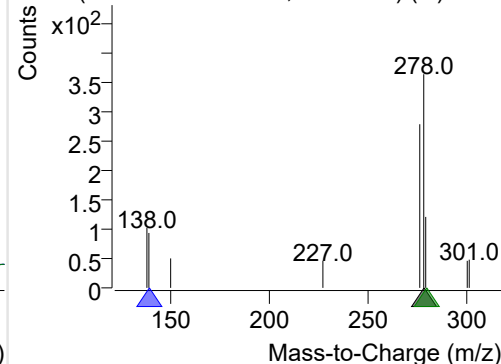
+ Selected Ion (278.0) 220302-PAHs-026.D



278.0, 139.0, 279.0

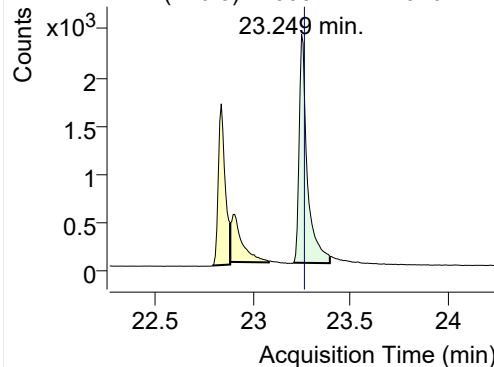


+ SIM (22.860-23.097 min, 32 scans) (**) 2203

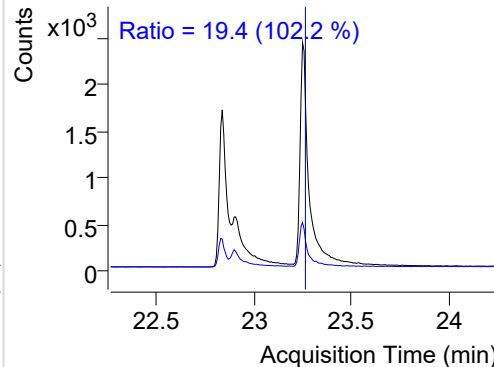


Benzo(g,h,i)perylene

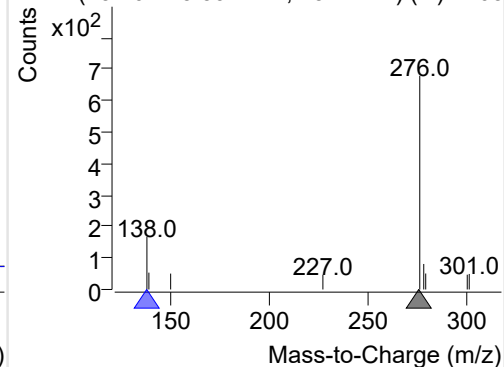
+ Selected Ion (276.0) 220302-PAHs-026.D



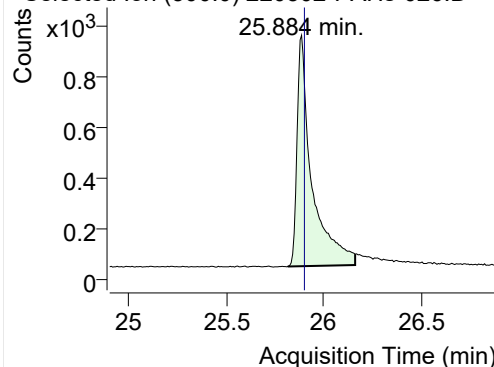
276.0, 138.0



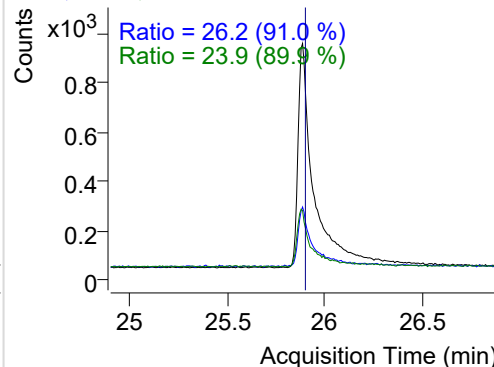
+ SIM (23.207-23.394 min, 25 scans) (**) 2203

**Coronene**

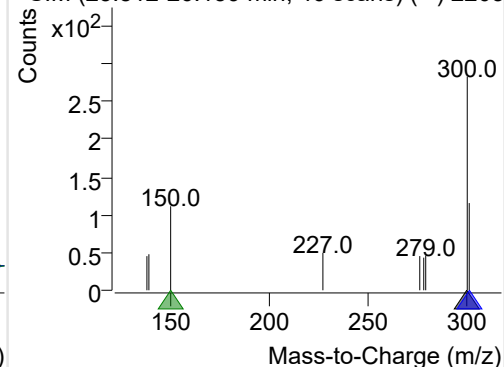
+ Selected Ion (300.0) 220302-PAHs-026.D



300.0, 301.0, 150.0



+ SIM (25.812-26.159 min, 46 scans) (**) 2203



Quantitative Analysis Sample Based Report

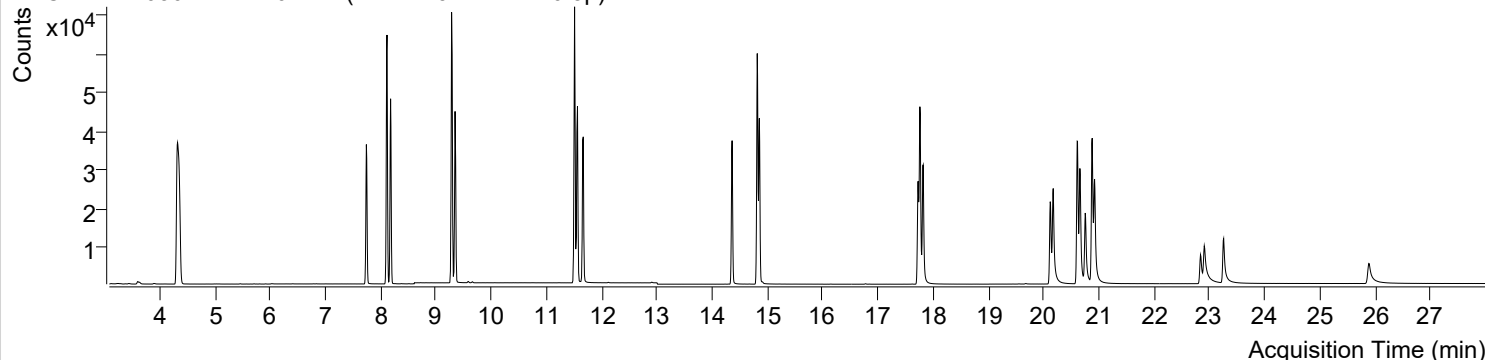


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-02 오후 11:17:57	Data File	220302-PAHs-027.D
Type	Cal	Name	PAHs-19mix-STD-0.5p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

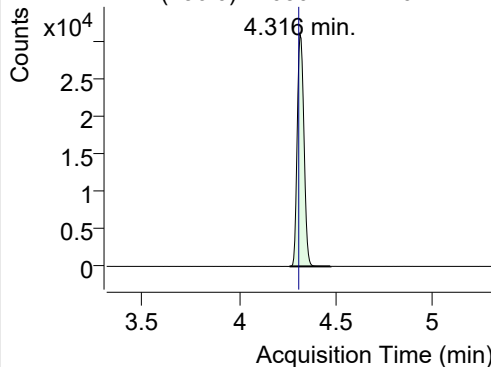
+ TIC SIM 220302-PAHs-027.D (PAHs-19mix-STD-0.5p)



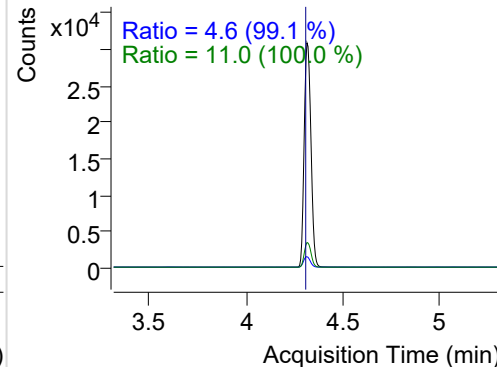
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.316	136.0	74791	30906.70	ND ng/ml	11.0
Naphthalene	4.354	128.0	46716	19602.21	ND ng/ml	13.1
Acenaphthylene	7.739	152.0	41243	27160.83	ND ng/ml	19.5
IS-D10-Acenaphthene	8.112	164.0	47531	32200.66	ND ng/ml	89.5
Acenaphthene	8.177	154.0	26182	17971.00	ND ng/ml	103.0
LSS-D10-Fluorene	9.281	176.0	52261	32748.51	ND ng/ml	86.5
Fluorene	9.344	166.0	32657	21759.76	ND ng/ml	88.8
IS-D10-Phenanthrene	11.508	188.0	86369	59131.60	ND ng/ml	14.9
Phenanthrene	11.560	178.0	48987	31283.26	ND ng/ml	16.8
Anthracene	11.665	178.0	43828	26365.50	ND ng/ml	16.7
Fluoranthene	14.359	202.0	46209	29411.35	ND ng/ml	17.3
LSS-D10-Pyrene	14.814	212.0	72255	45883.52	ND ng/ml	16.9
Pyrene	14.852	202.0	53105	33035.58	ND ng/ml	17.4
Benz(a)anthracene	17.725	228.0	34164	18341.42	ND ng/ml	23.9
IS-D12-Chrysene	17.758	240.0	64053	33419.37	ND ng/ml	19.1
Chrysene	17.817	228.0	39973	20502.26	ND ng/ml	26.1
Benzo(b)fluoranthene	20.117	252.0	30827	16017.71	ND ng/ml	21.6
Benzo(k)fluoranthene	20.171	252.0	45155	18412.69	ND ng/ml	22.0
SS-D12-Benzo(e)pyrene	20.610	264.0	56244	25603.46	ND ng/ml	22.7
Benzo(e)pyrene	20.654	252.0	41509	19943.12	ND ng/ml	21.9
Benzo(a)pyrene	20.751	252.0	29636	12972.06	ND ng/ml	22.3
IS-D12-Perylene	20.876	264.0	57272	25757.48	ND ng/ml	21.4
Perylene	20.919	252.0	37461	16734.41	ND ng/ml	22.5
Indeno(1,2,3-c,d)pyrene	22.837	276.0	15785	6168.59	ND ng/ml	15.7
Dibenz(a,h)anthracene	22.905	278.0	19183	4949.64	ND ng/ml	22.9
Benzo(g,h,i)perylene	23.257	276.0	28573	9508.36	ND ng/ml	18.0
Coronene	25.883	300.0	18553	3472.37	ND ng/ml	25.3

IS-D8-Naphthalene

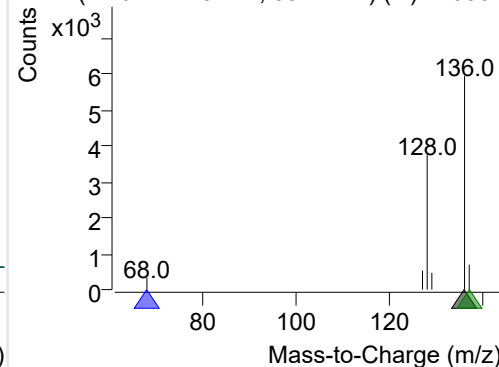
+ Selected Ion (136.0) 220302-PAHs-027.D



136.0, 68.0, 137.0

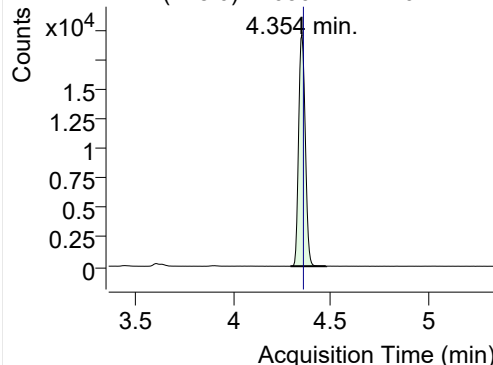


+ SIM (4.262-4.473 min, 39 scans) (**) 220302

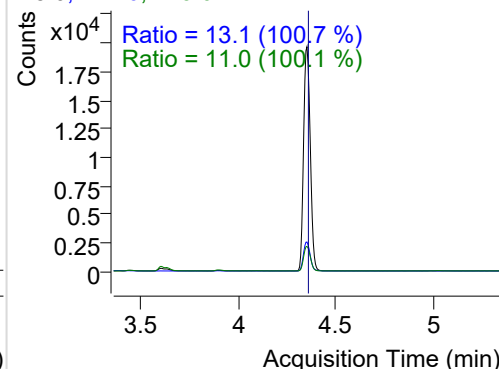


Naphthalene

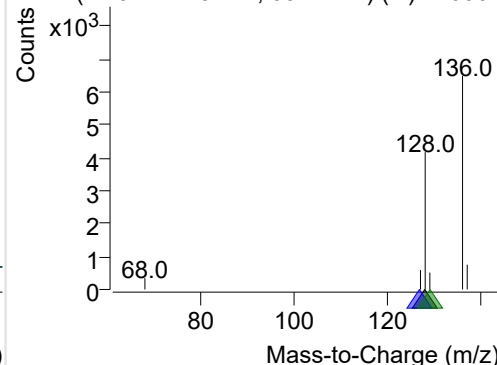
+ Selected Ion (128.0) 220302-PAHs-027.D



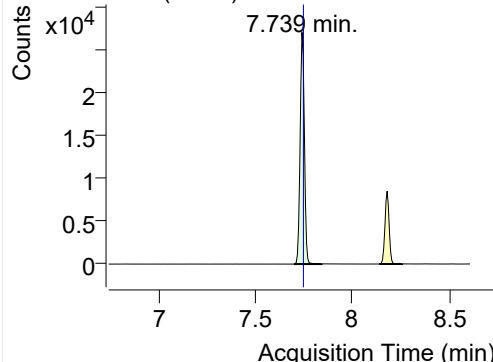
128.0, 127.0, 129.0



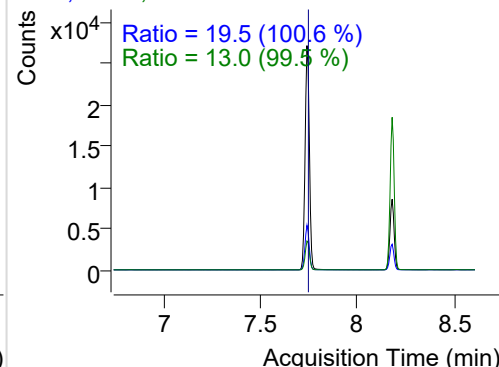
+ SIM (4.294-4.478 min, 35 scans) (**) 220302

**Acenaphthylene**

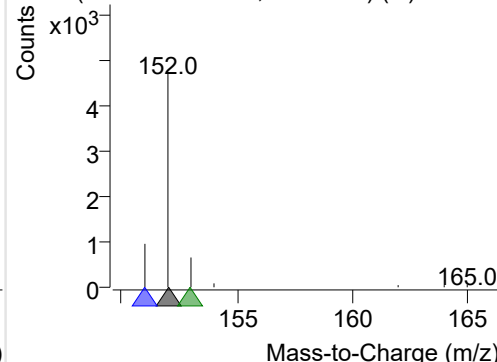
+ Selected Ion (152.0) 220302-PAHs-027.D



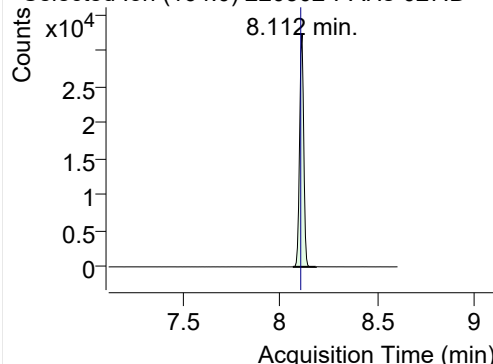
152.0, 151.0, 153.0



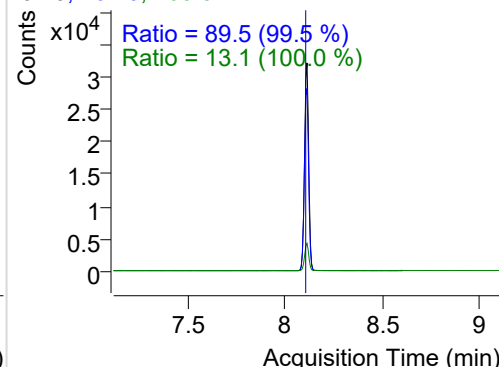
+ SIM (7.698-7.840 min, 25 scans) (**) 220302

**IS-D10-Acenaphthene**

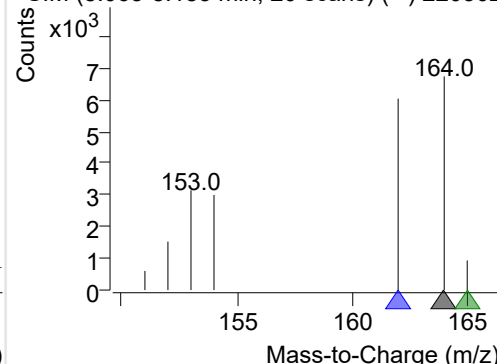
+ Selected Ion (164.0) 220302-PAHs-027.D



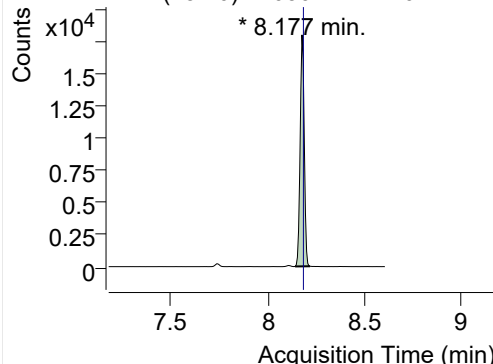
164.0, 162.0, 165.0



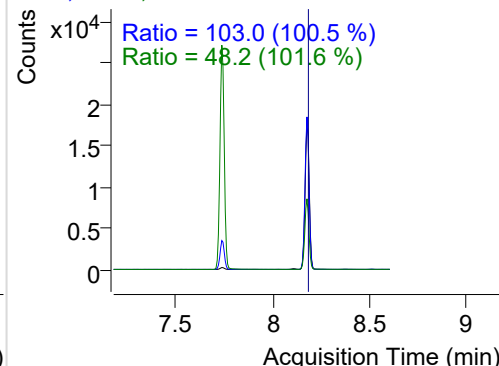
+ SIM (8.065-8.183 min, 20 scans) (**) 220302

**Acenaphthene**

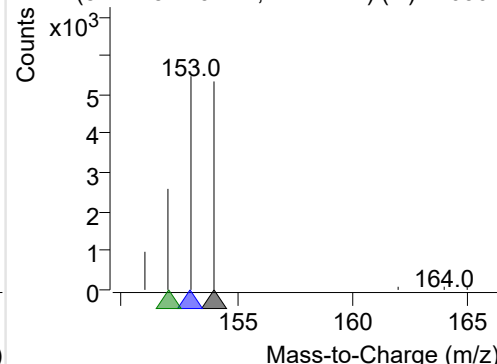
+ Selected Ion (154.0) 220302-PAHs-027.D



154.0, 153.0, 152.0

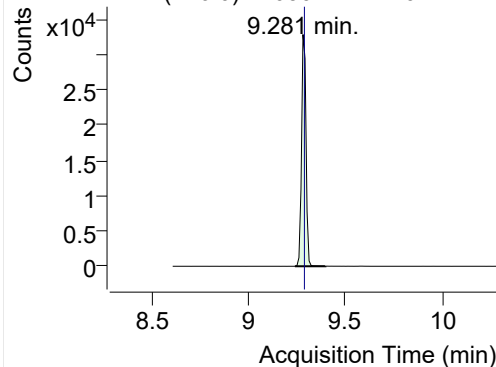


+ SIM (8.142-8.219 min, 14 scans) (**) 220302

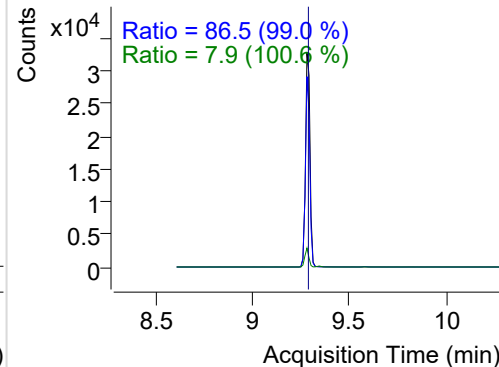


LSS-D10-Fluorene

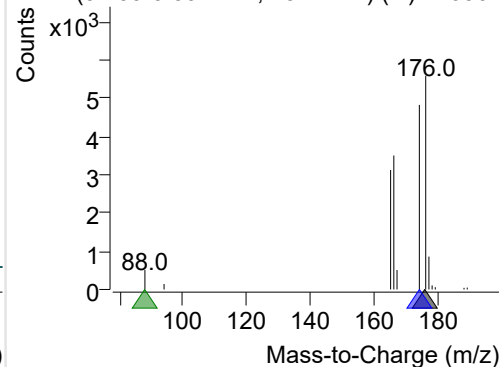
+ Selected Ion (176.0) 220302-PAHs-027.D



176.0, 174.0, 88.0

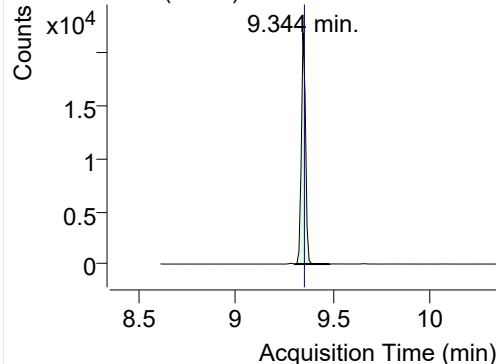


+ SIM (9.239-9.397 min, 15 scans) (**) 220302

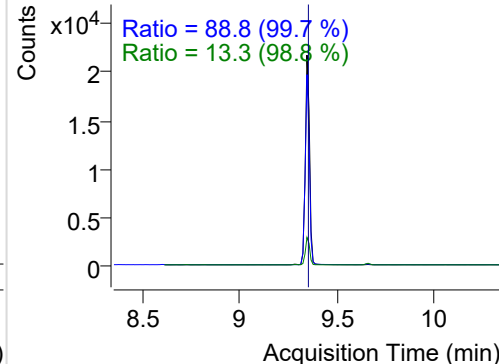


Fluorene

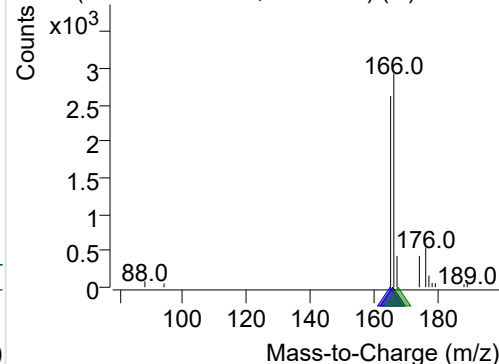
+ Selected Ion (166.0) 220302-PAHs-027.D



166.0, 165.0, 167.0

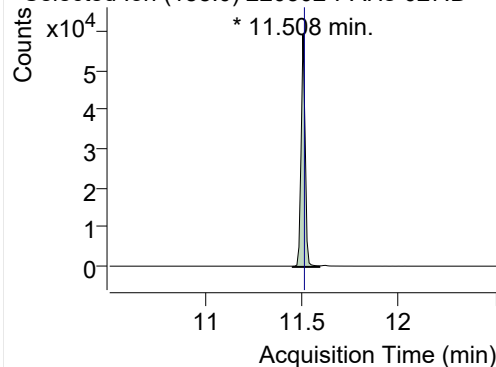


+ SIM (9.302-9.481 min, 18 scans) (**) 220302

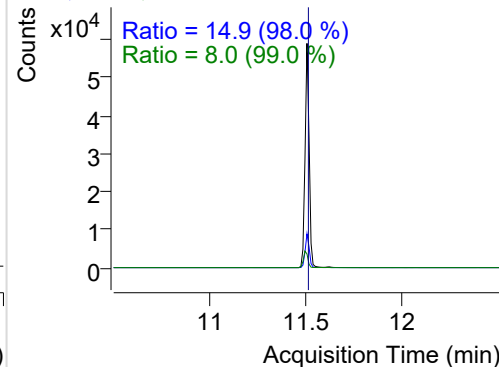


IS-D10-Phenanthrene

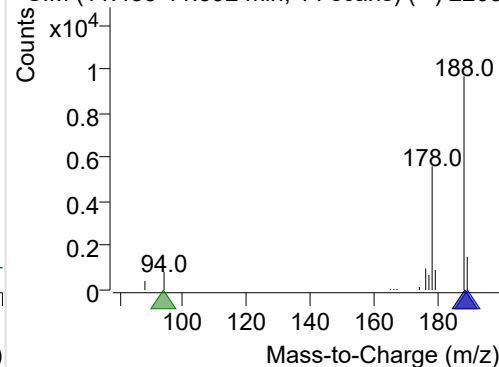
+ Selected Ion (188.0) 220302-PAHs-027.D



188.0, 189.0, 94.0

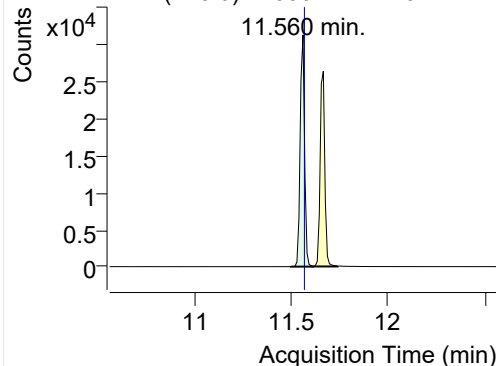


+ SIM (11.455-11.592 min, 14 scans) (**) 2203

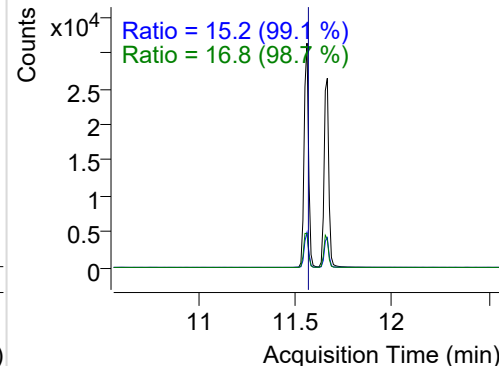


Phenanthrene

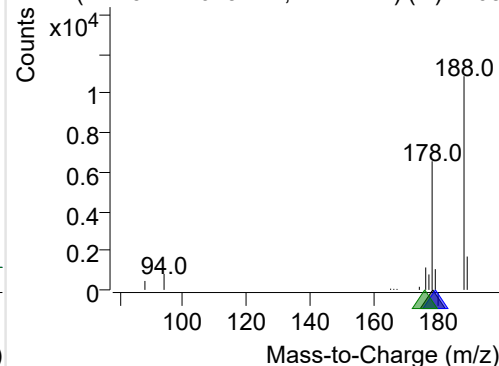
+ Selected Ion (178.0) 220302-PAHs-027.D



178.0, 179.0, 176.0

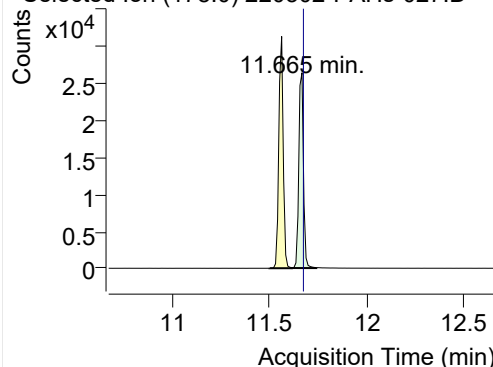


+ SIM (11.497-11.613 min, 12 scans) (**) 2203

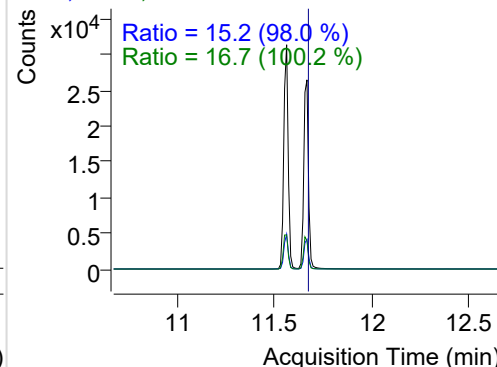


Anthracene

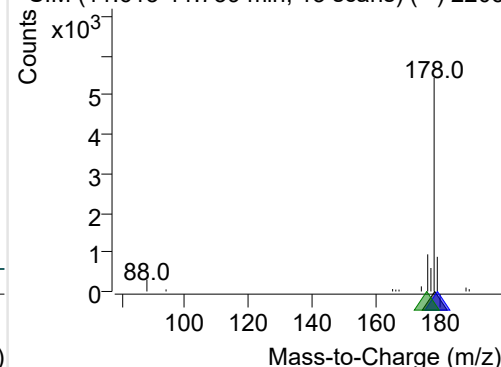
+ Selected Ion (178.0) 220302-PAHs-027.D



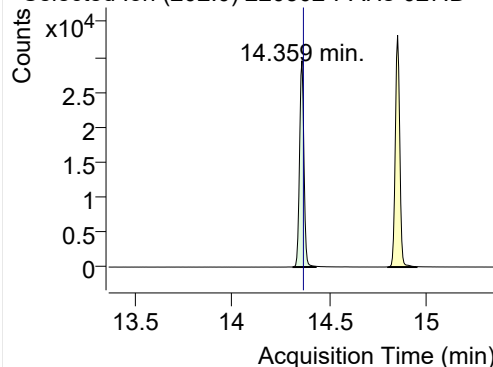
178.0, 179.0, 176.0



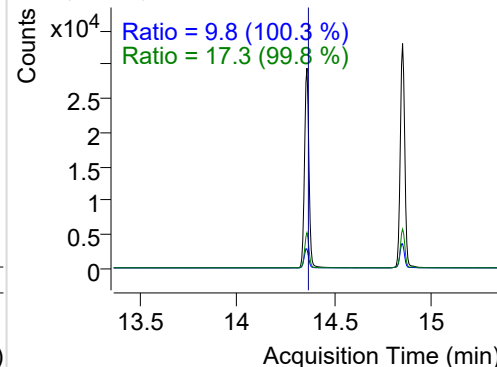
+ SIM (11.613-11.739 min, 13 scans) (**) 2203

**Fluoranthene**

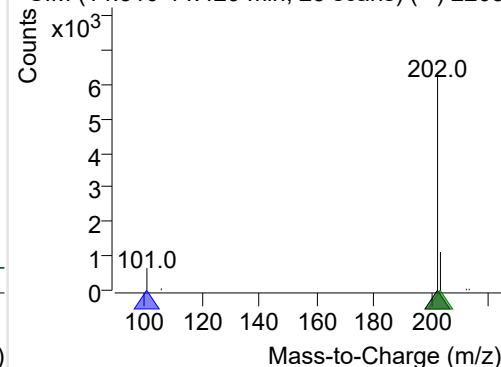
+ Selected Ion (202.0) 220302-PAHs-027.D



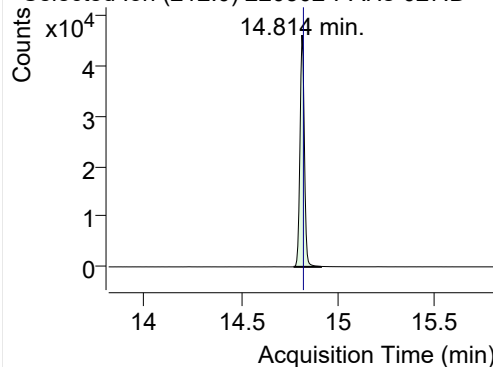
202.0, 101.0, 203.0



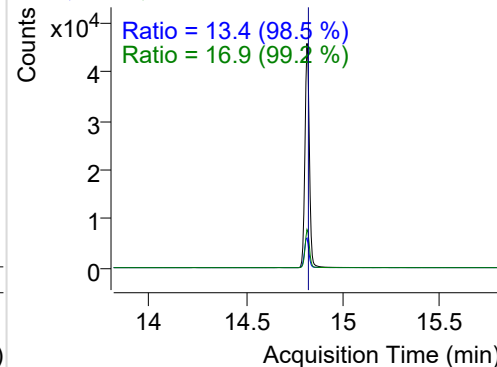
+ SIM (14.310-14.429 min, 23 scans) (**) 2203

**LSS-D10-Pyrene**

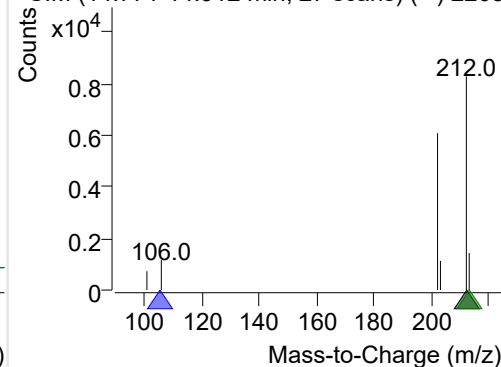
+ Selected Ion (212.0) 220302-PAHs-027.D



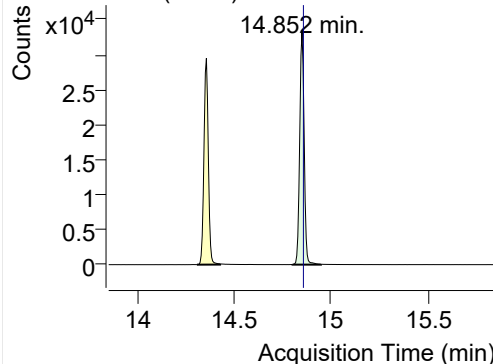
212.0, 106.0, 213.0



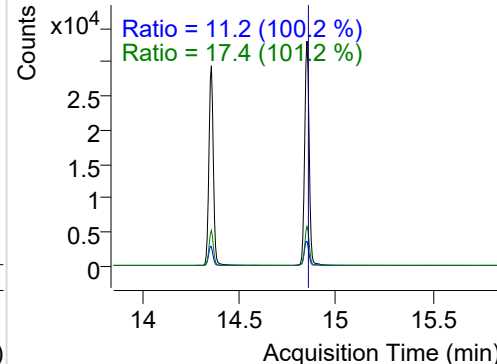
+ SIM (14.771-14.912 min, 27 scans) (**) 2203

**Pyrene**

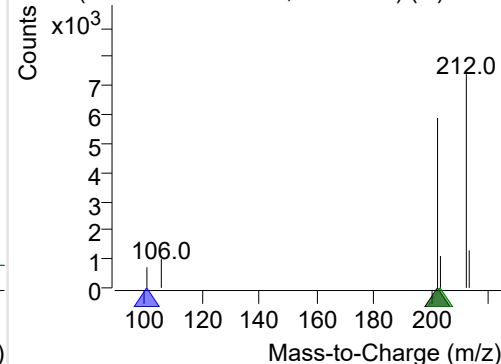
+ Selected Ion (202.0) 220302-PAHs-027.D



202.0, 101.0, 203.0

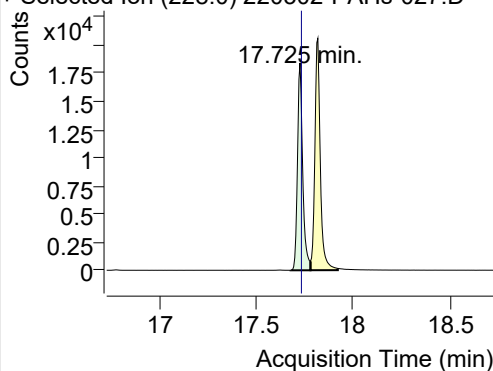


+ SIM (14.803-14.950 min, 28 scans) (**) 2203

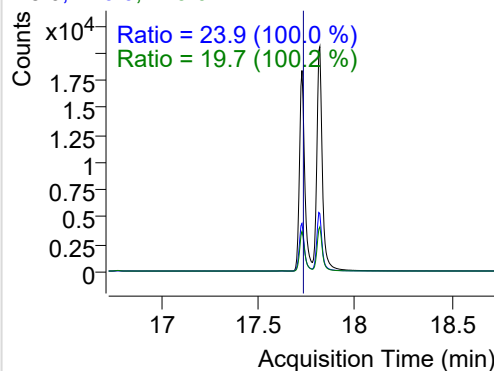


Benz(a)anthracene

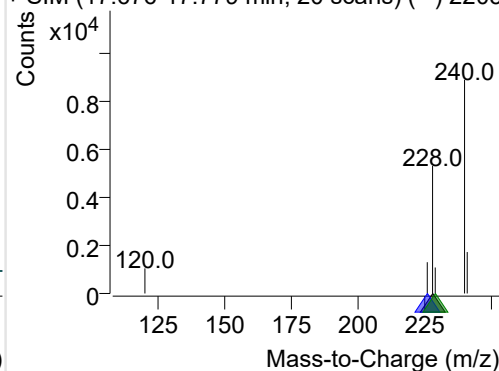
+ Selected Ion (228.0) 220302-PAHs-027.D



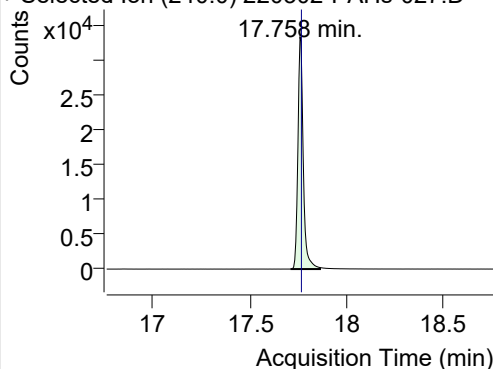
228.0, 226.0, 229.0



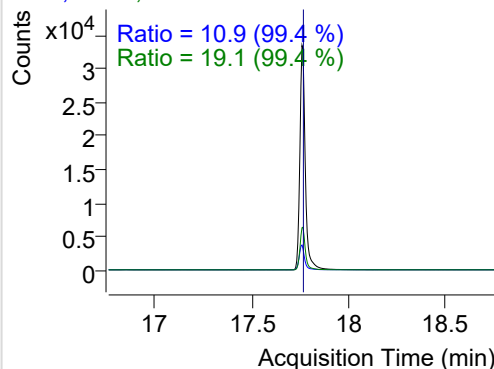
+ SIM (17.676-17.779 min, 20 scans) (**) 2203

**IS-D12-Chrysene**

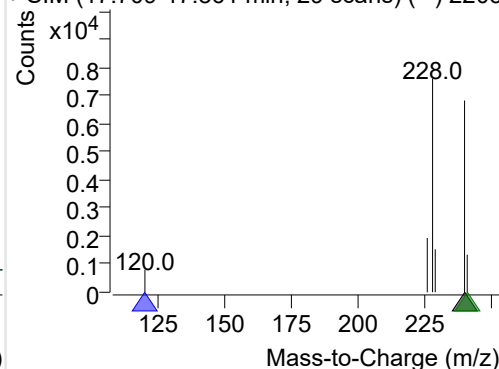
+ Selected Ion (240.0) 220302-PAHs-027.D



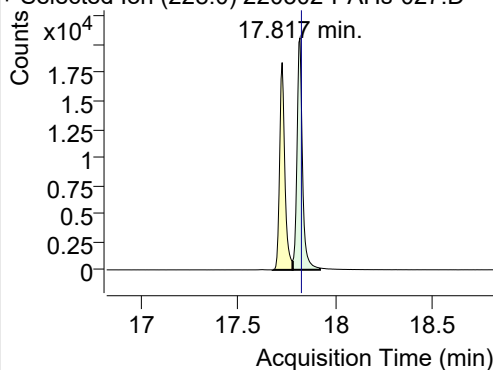
240.0, 120.0, 241.0



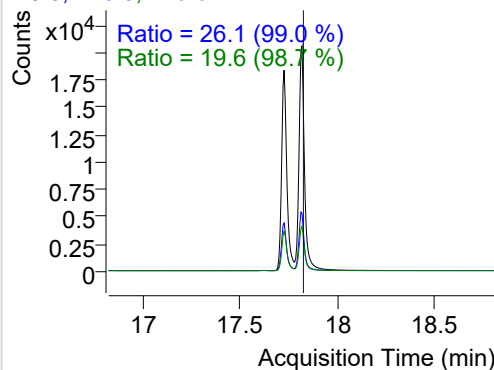
+ SIM (17.709-17.861 min, 29 scans) (**) 2203

**Chrysene**

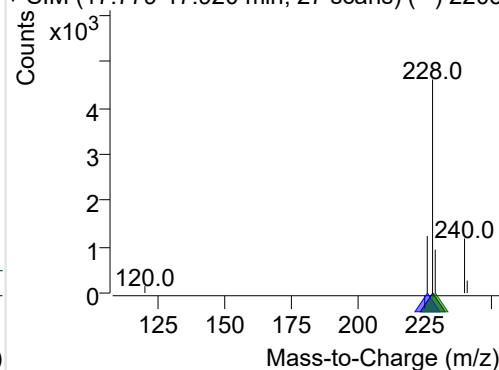
+ Selected Ion (228.0) 220302-PAHs-027.D



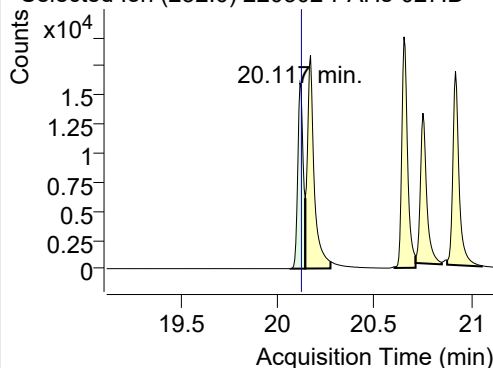
228.0, 226.0, 229.0



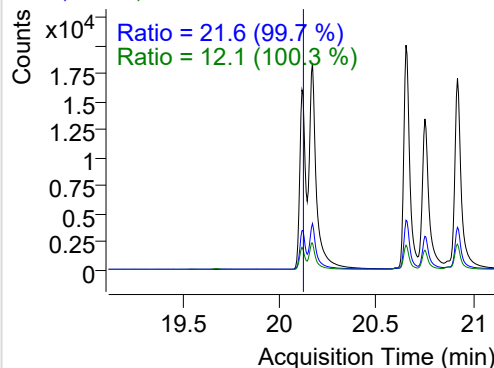
+ SIM (17.779-17.920 min, 27 scans) (**) 2203

**Benzo(b)fluoranthene**

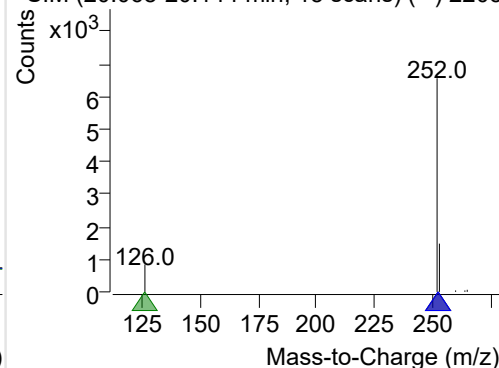
+ Selected Ion (252.0) 220302-PAHs-027.D



252.0, 253.0, 126.0

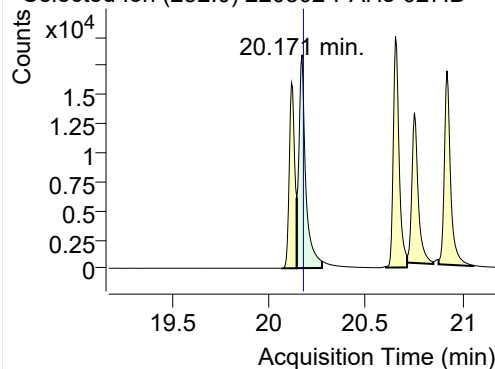


+ SIM (20.068-20.144 min, 15 scans) (**) 2203

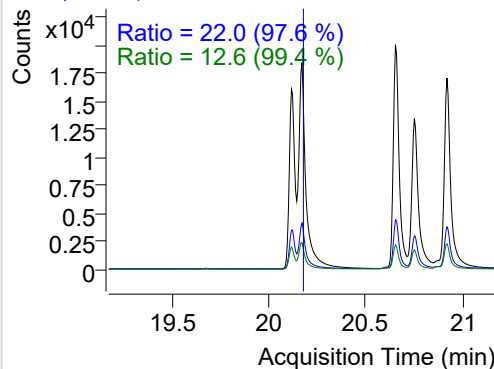


Benzo(k)fluoranthene

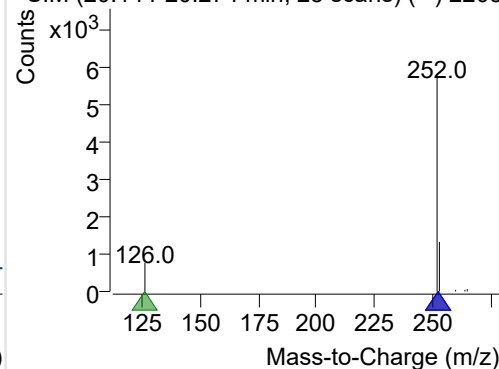
+ Selected Ion (252.0) 220302-PAHs-027.D



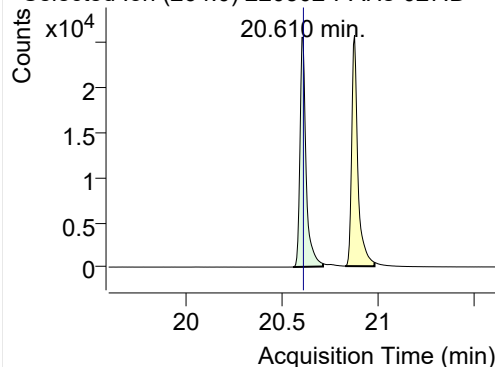
252.0, 253.0, 126.0



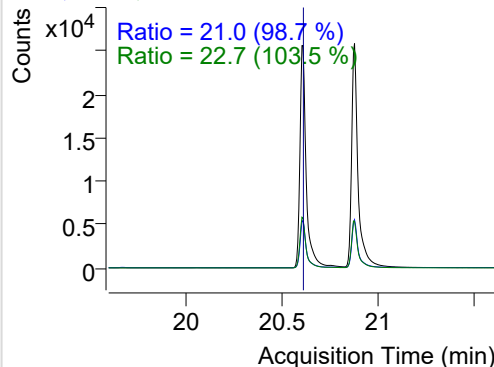
+ SIM (20.144-20.274 min, 25 scans) (**) 2203

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

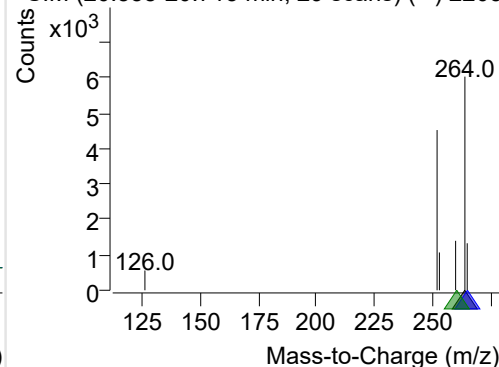
+ Selected Ion (264.0) 220302-PAHs-027.D



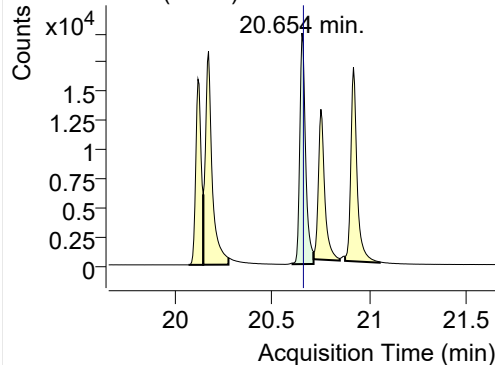
264.0, 265.0, 260.0



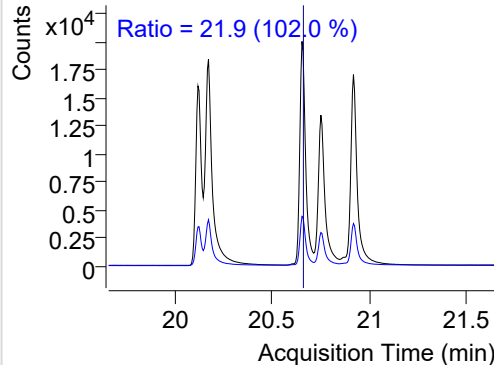
+ SIM (20.558-20.713 min, 29 scans) (**) 2203

**Benzo(e)pyrene**

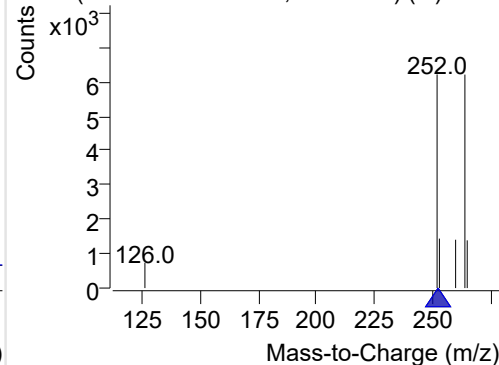
+ Selected Ion (252.0) 220302-PAHs-027.D



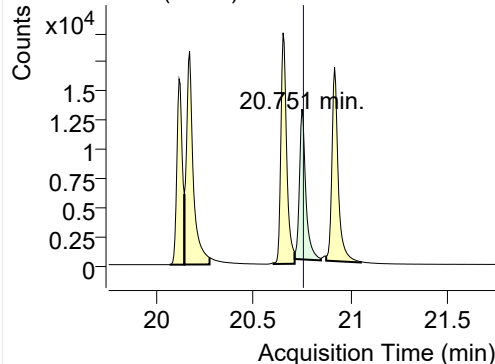
252.0, 253.0



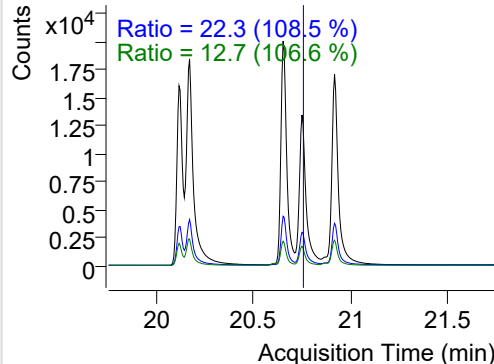
+ SIM (20.605-20.713 min, 21 scans) (**) 2203

**Benzo(a)pyrene**

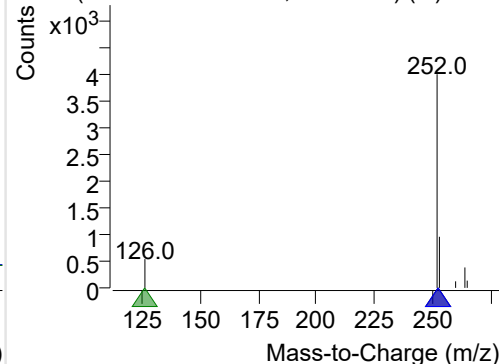
+ Selected Ion (252.0) 220302-PAHs-027.D



252.0, 253.0, 126.0

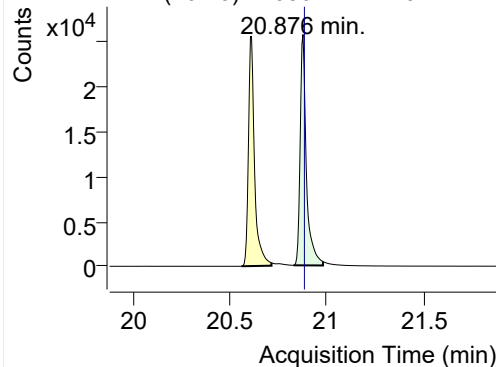


+ SIM (20.713-20.849 min, 26 scans) (**) 2203

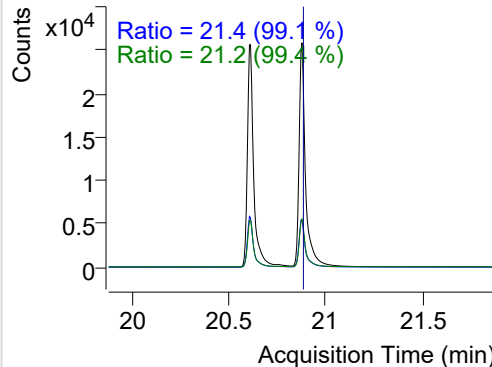


IS-D12-Perylene

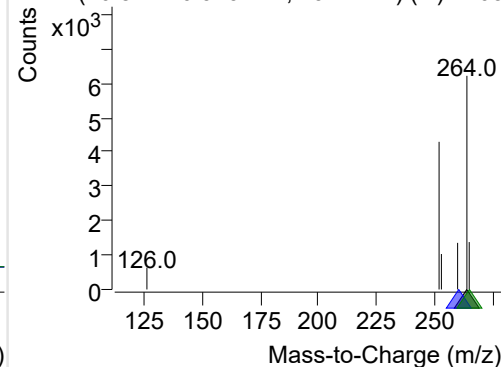
+ Selected Ion (264.0) 220302-PAHs-027.D



264.0, 260.0, 265.0

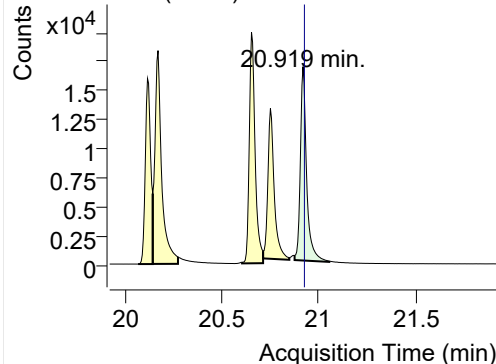


+ SIM (20.827-20.979 min, 29 scans) (**) 2203

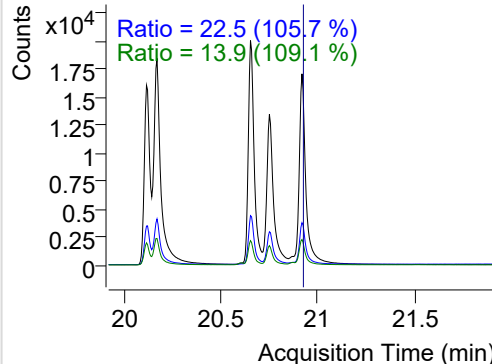


Perylene

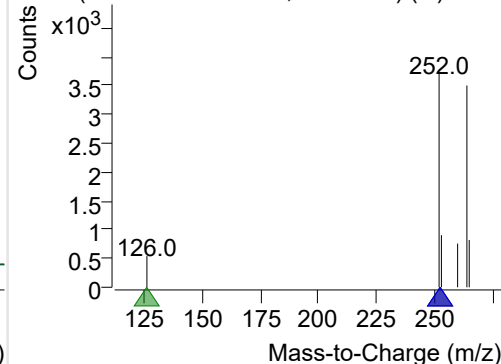
+ Selected Ion (252.0) 220302-PAHs-027.D



252.0, 253.0, 126.0

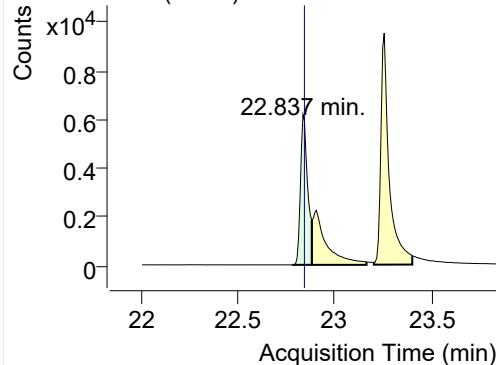


+ SIM (20.876-21.055 min, 34 scans) (**) 2203

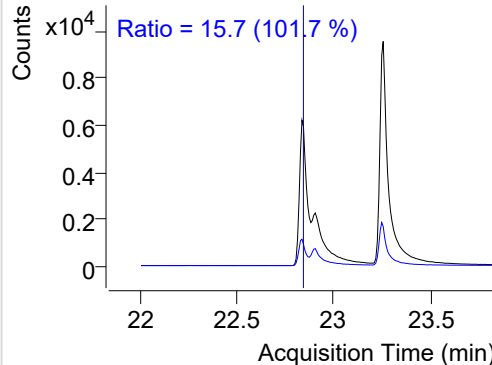


Indeno(1,2,3-c,d)pyrene

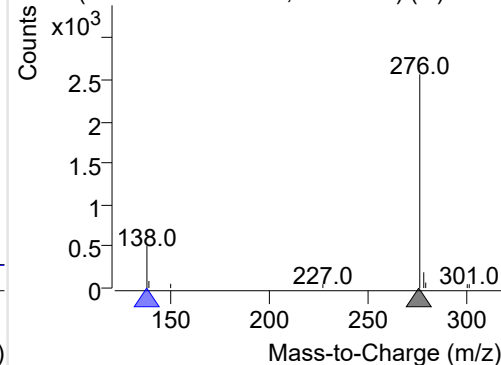
+ Selected Ion (276.0) 220302-PAHs-027.D



276.0, 138.0

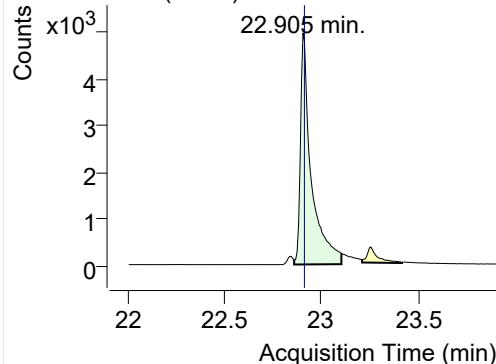


+ SIM (22.783-22.882 min, 14 scans) (**) 2203

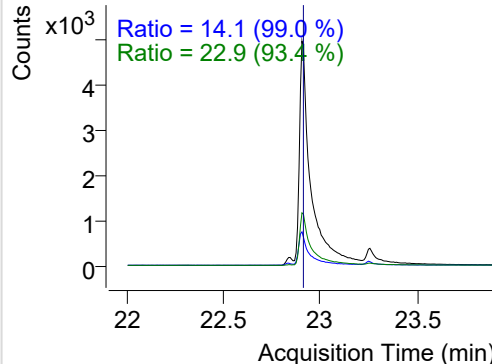


Dibenz(a,h)anthracene

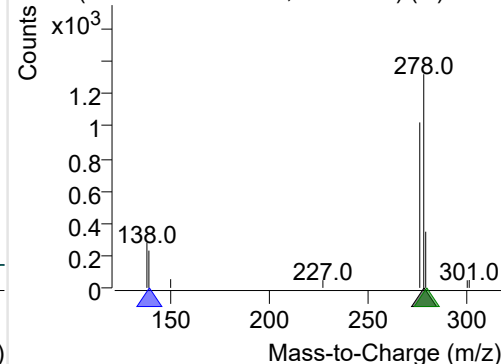
+ Selected Ion (278.0) 220302-PAHs-027.D



278.0, 139.0, 279.0

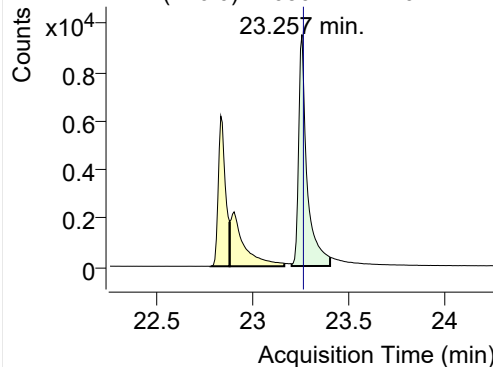


+ SIM (22.860-23.104 min, 33 scans) (**) 2203

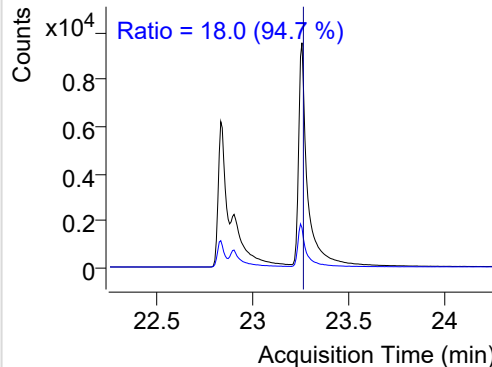


Benzo(g,h,i)perylene

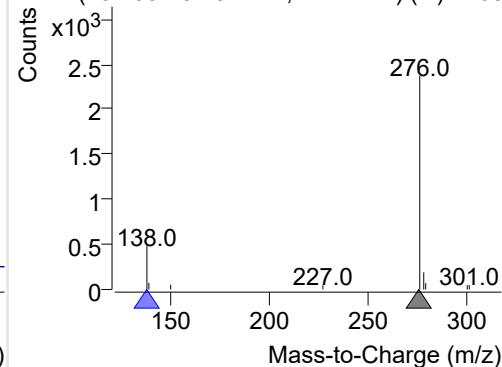
+ Selected Ion (276.0) 220302-PAHs-027.D



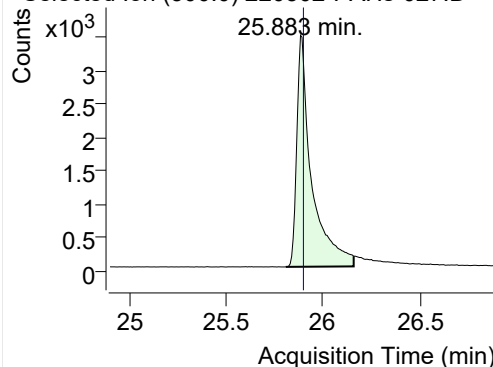
276.0, 138.0



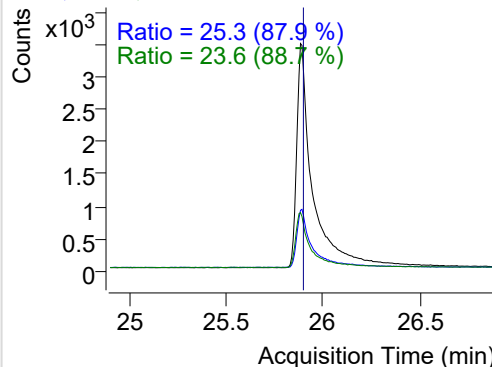
+ SIM (23.203-23.402 min, 27 scans) (**) 2203

**Coronene**

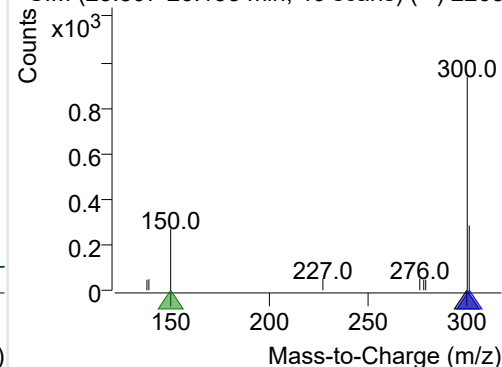
+ Selected Ion (300.0) 220302-PAHs-027.D



300.0, 301.0, 150.0



+ SIM (25.807-26.158 min, 46 scans) (**) 2203



Quantitative Analysis Sample Based Report

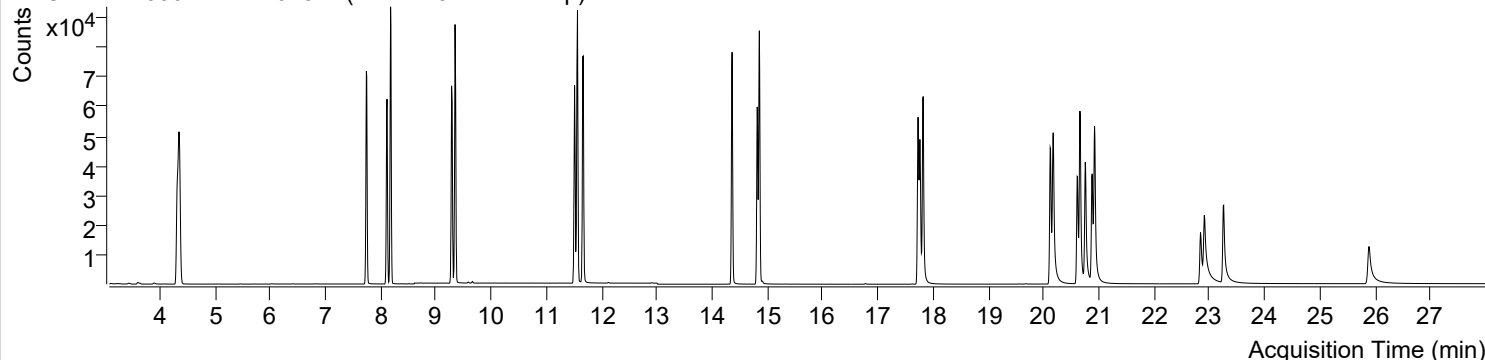


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-02 오후 11:49:07	Data File	220302-PAHs-028.D
Type	Cal	Name	PAHs-19mix-STD-1p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

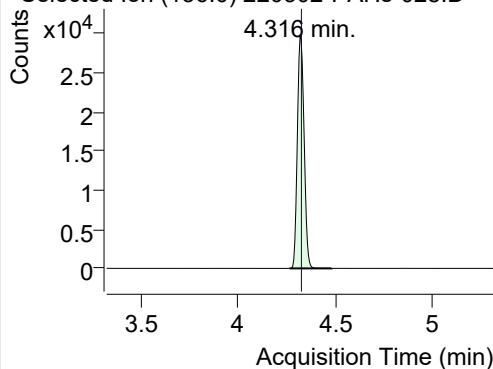
+ TIC SIM 220302-PAHs-028.D (PAHs-19mix-STD-1p)



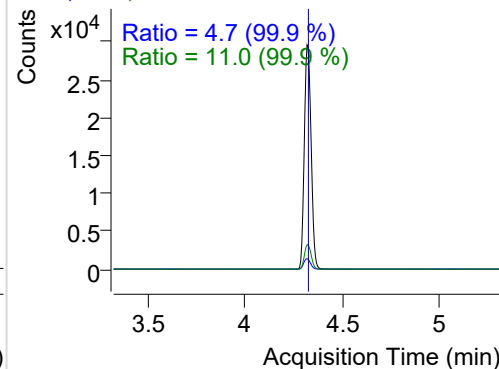
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.316	136.0	71639	29530.45	ND ng/ml	11.0
Naphthalene	4.354	128.0	88494	36994.76	ND ng/ml	13.0
Acenaphthylene	7.739	152.0	82840	53716.25	ND ng/ml	19.3
IS-D10-Acenaphthene	8.112	164.0	45559	30848.59	ND ng/ml	90.0
Acenaphthene	8.177	154.0	51467	34379.71	ND ng/ml	102.7
LSS-D10-Fluorene	9.282	176.0	50959	30604.42	ND ng/ml	87.0
Fluorene	9.345	166.0	64126	42534.02	ND ng/ml	88.5
IS-D10-Phenanthrene	11.508	188.0	81669	54514.90	ND ng/ml	15.1
Phenanthrene	11.560	178.0	95144	62162.00	ND ng/ml	17.0
Anthracene	11.665	178.0	88508	53168.50	ND ng/ml	16.5
Fluoranthene	14.359	202.0	95048	61605.24	ND ng/ml	17.4
LSS-D10-Pyrene	14.814	212.0	70624	45632.91	ND ng/ml	16.9
Pyrene	14.852	202.0	105120	65853.25	ND ng/ml	17.2
Benz(a)anthracene	17.726	228.0	73056	38927.49	ND ng/ml	23.9
IS-D12-Chrysene	17.758	240.0	64281	33058.12	ND ng/ml	19.0
Chrysene	17.818	228.0	81109	42472.58	ND ng/ml	26.0
Benzo(b)fluoranthene	20.117	252.0	65179	34304.96	ND ng/ml	21.7
Benzo(k)fluoranthene	20.171	252.0	98464	37806.46	ND ng/ml	21.9
SS-D12-Benzo(e)pyrene	20.605	264.0	53960	24758.24	ND ng/ml	22.0
Benzo(e)pyrene	20.654	252.0	83424	40838.50	ND ng/ml	21.8
Benzo(a)pyrene	20.752	252.0	71411	30034.38	ND ng/ml	20.3
IS-D12-Perylene	20.876	264.0	56464	24489.00	ND ng/ml	21.5
Perylene	20.920	252.0	82656	35571.53	ND ng/ml	20.8
Indeno(1,2,3-c,d)pyrene	22.837	276.0	39218	14463.92	ND ng/ml	15.2
Dibenz(a,h)anthracene	22.906	278.0	47127	11625.61	ND ng/ml	22.3
Benzo(g,h,i)perylene	23.257	276.0	65129	21487.51	ND ng/ml	17.8
Coronene	25.891	300.0	41714	8356.44	ND ng/ml	25.8

IS-D8-Naphthalene

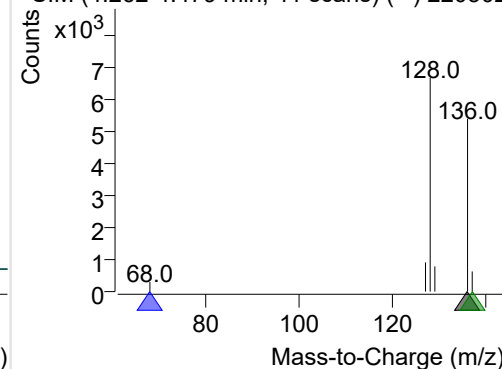
+ Selected Ion (136.0) 220302-PAHs-028.D



136.0, 68.0, 137.0

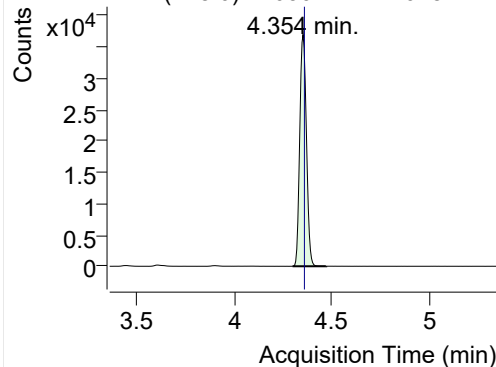


+ SIM (4.262-4.479 min, 41 scans) (**) 220302

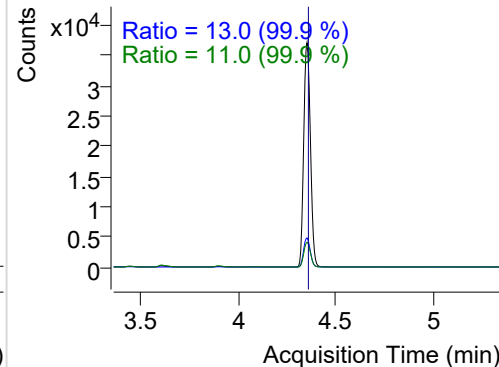


Naphthalene

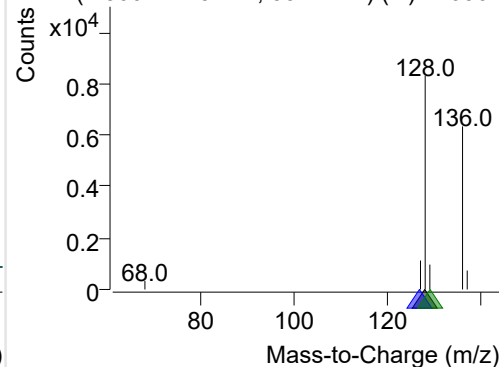
+ Selected Ion (128.0) 220302-PAHs-028.D



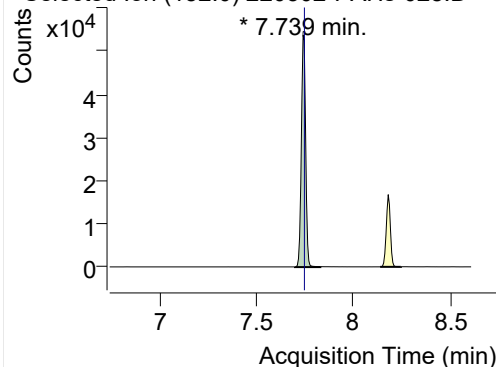
128.0, 127.0, 129.0



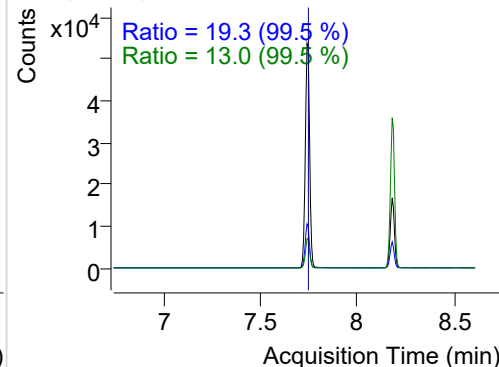
+ SIM (4.300-4.473 min, 33 scans) (**) 220302

**Acenaphthylene**

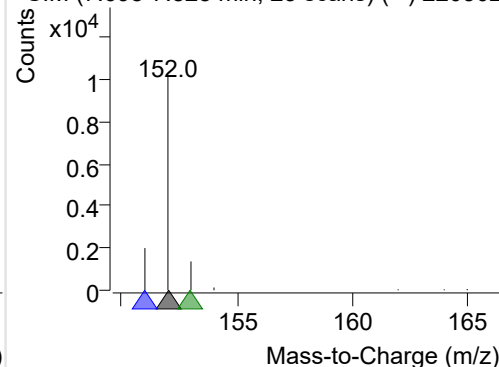
+ Selected Ion (152.0) 220302-PAHs-028.D



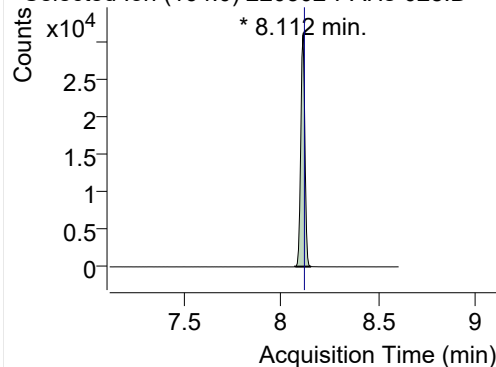
152.0, 151.0, 153.0



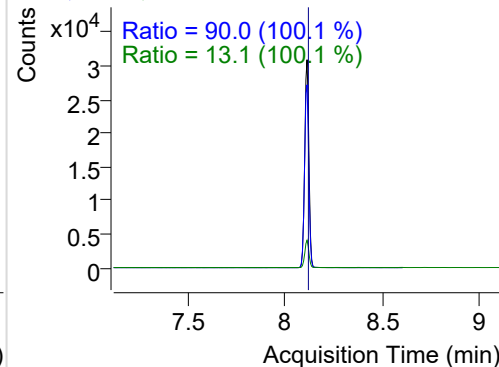
+ SIM (7.698-7.828 min, 23 scans) (**) 220302

**IS-D10-Acenaphthene**

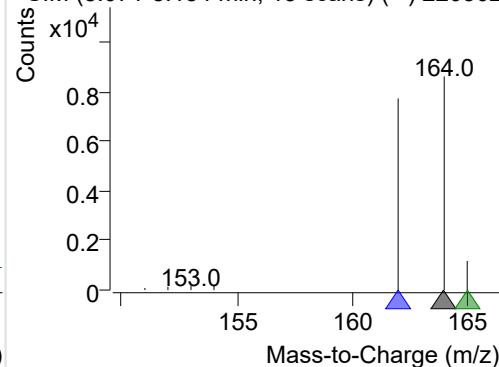
+ Selected Ion (164.0) 220302-PAHs-028.D



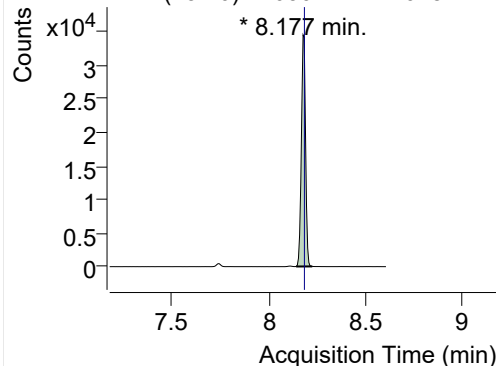
164.0, 162.0, 165.0



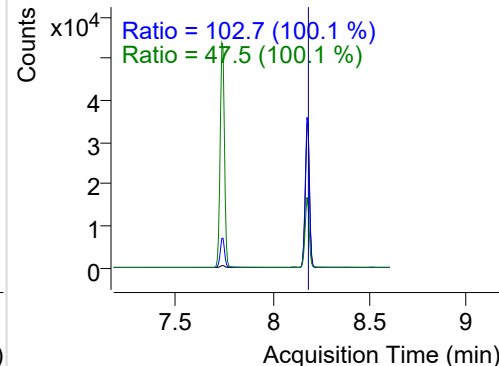
+ SIM (8.071-8.154 min, 15 scans) (**) 220302

**Acenaphthene**

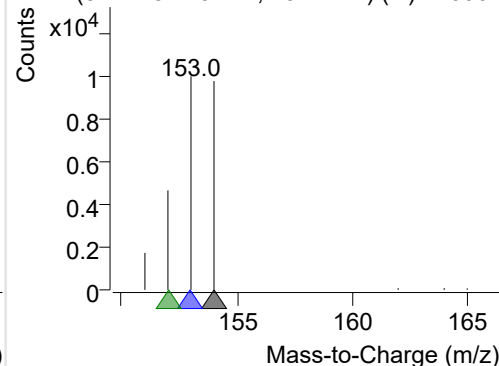
+ Selected Ion (154.0) 220302-PAHs-028.D



154.0, 153.0, 152.0

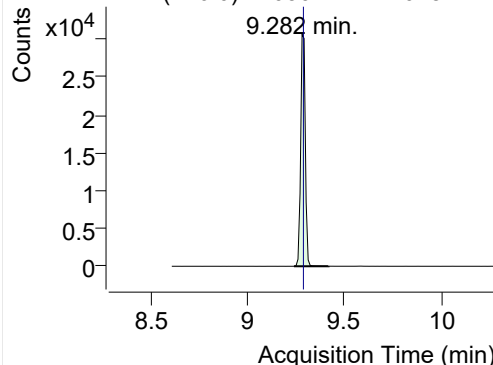


+ SIM (8.142-8.225 min, 15 scans) (**) 220302

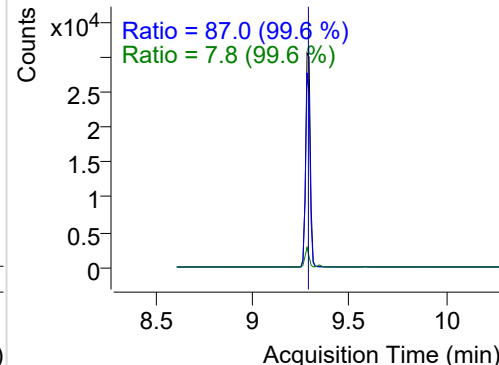


LSS-D10-Fluorene

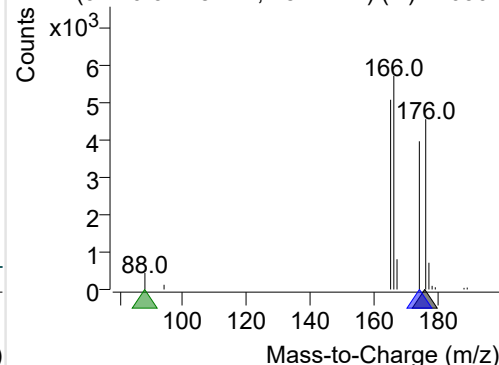
+ Selected Ion (176.0) 220302-PAHs-028.D



176.0, 174.0, 88.0

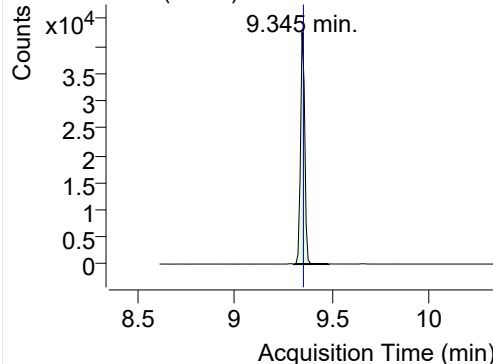


+ SIM (9.240-9.418 min, 18 scans) (**) 220302

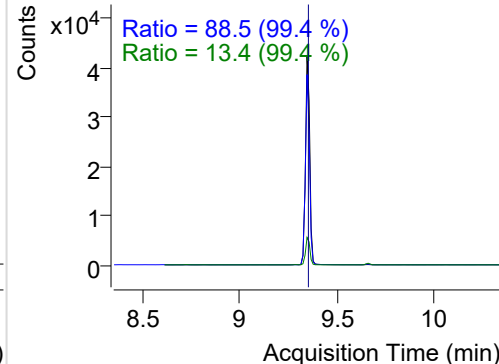


Fluorene

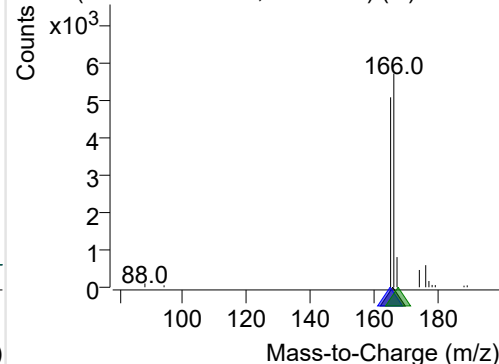
+ Selected Ion (166.0) 220302-PAHs-028.D



166.0, 165.0, 167.0

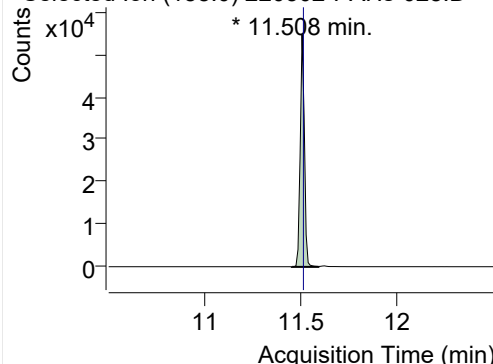


+ SIM (9.303-9.481 min, 18 scans) (**) 220302

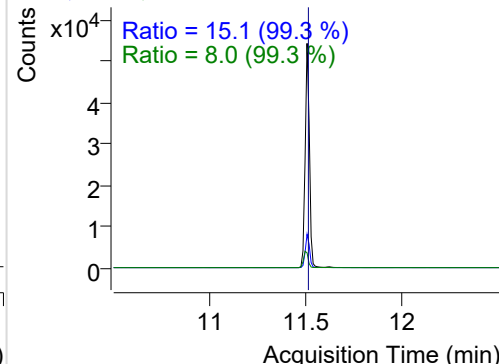


IS-D10-Phenanthrene

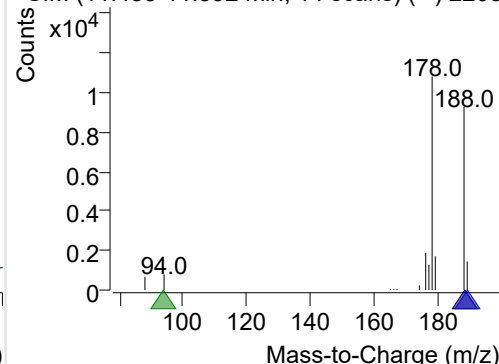
+ Selected Ion (188.0) 220302-PAHs-028.D



188.0, 189.0, 94.0

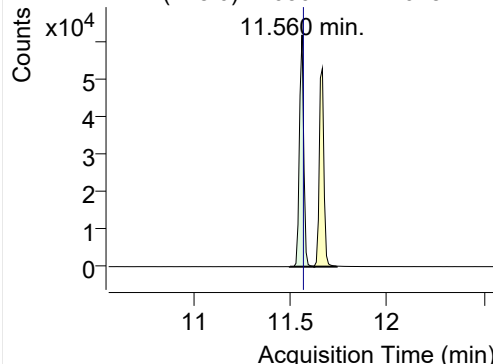


+ SIM (11.455-11.592 min, 14 scans) (**) 2203

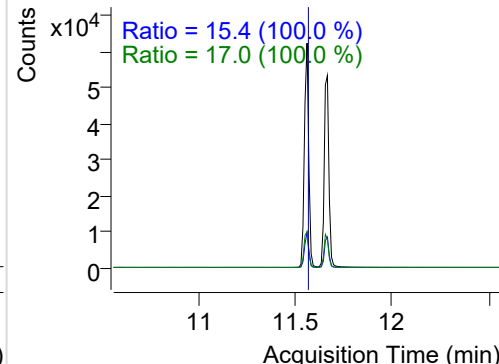


Phenanthrene

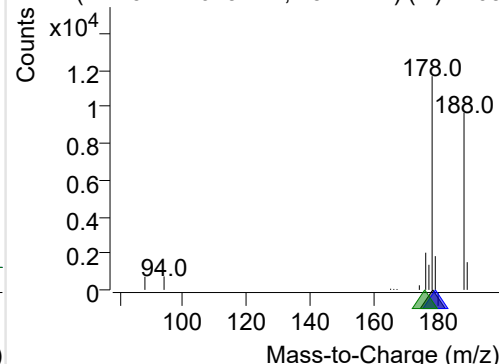
+ Selected Ion (178.0) 220302-PAHs-028.D



178.0, 179.0, 176.0

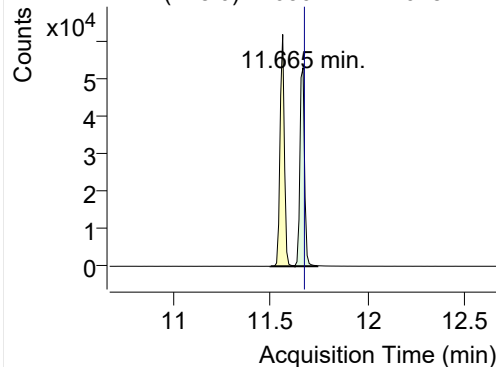


+ SIM (11.497-11.623 min, 13 scans) (**) 2203

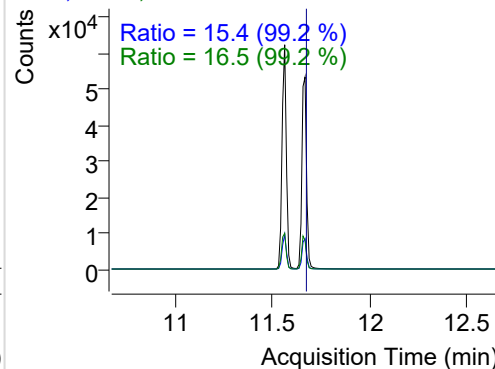


Anthracene

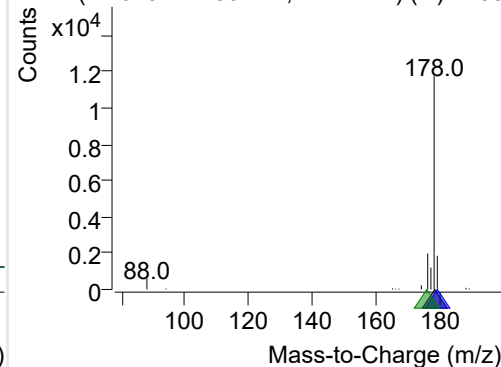
+ Selected Ion (178.0) 220302-PAHs-028.D



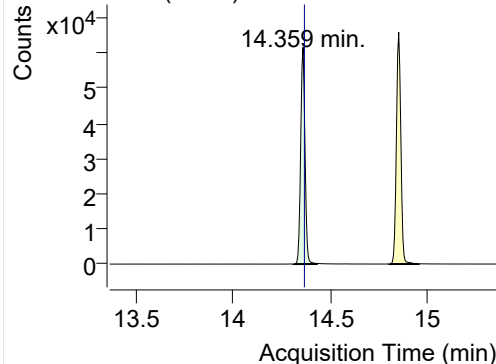
178.0, 179.0, 176.0



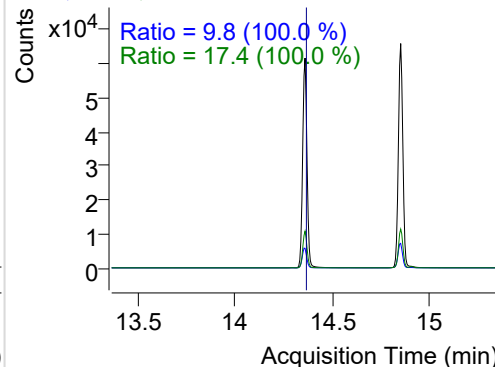
+ SIM (11.623-11.739 min, 12 scans) (**) 2203

**Fluoranthene**

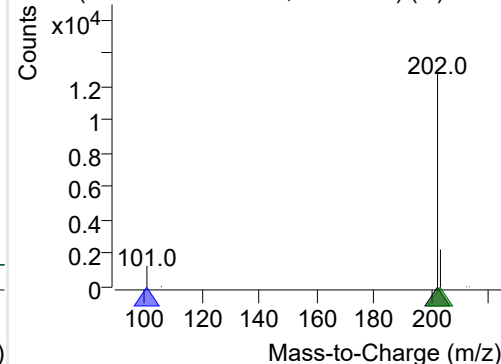
+ Selected Ion (202.0) 220302-PAHs-028.D



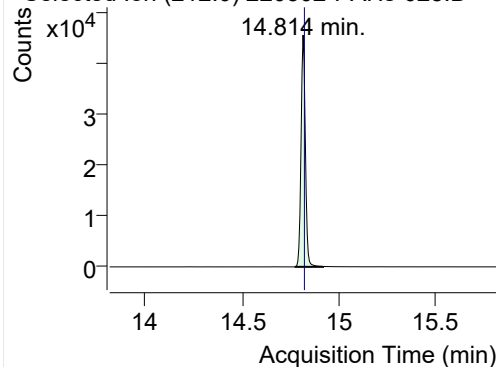
202.0, 101.0, 203.0



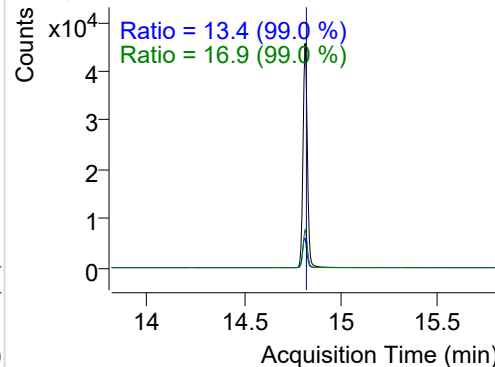
+ SIM (14.310-14.430 min, 23 scans) (**) 2203

**LSS-D10-Pyrene**

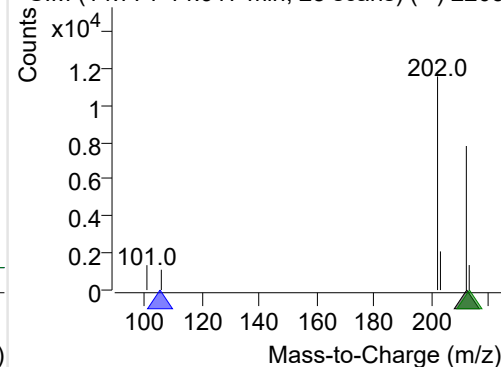
+ Selected Ion (212.0) 220302-PAHs-028.D



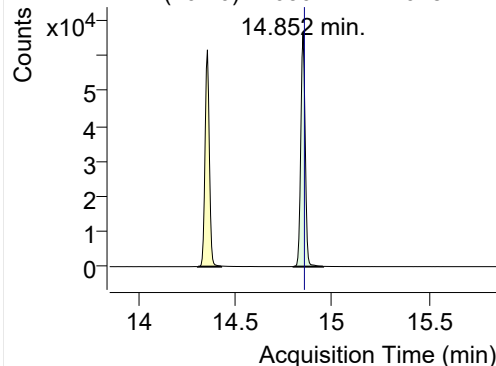
212.0, 106.0, 213.0



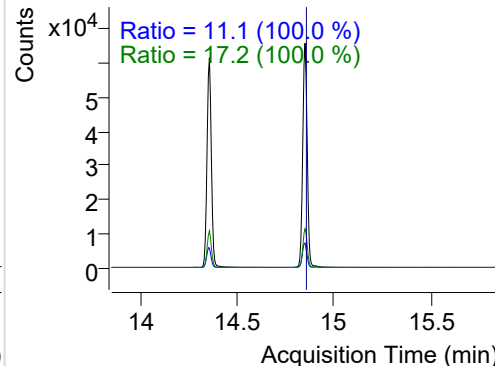
+ SIM (14.771-14.917 min, 28 scans) (**) 2203

**Pyrene**

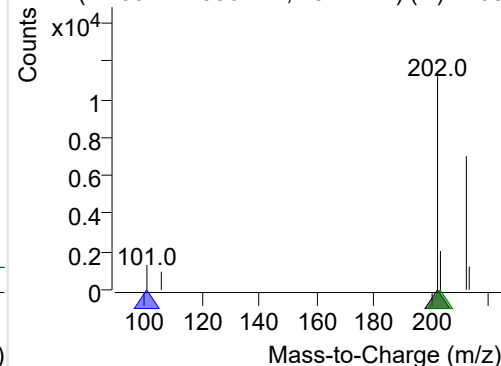
+ Selected Ion (202.0) 220302-PAHs-028.D



202.0, 101.0, 203.0

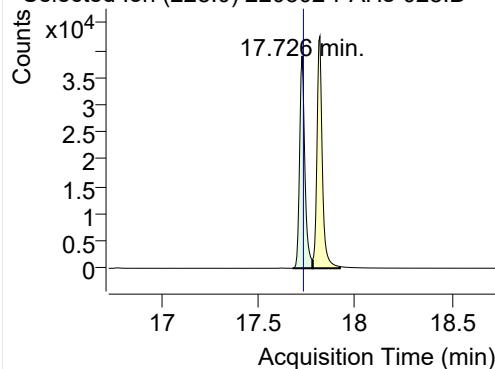


+ SIM (14.804-14.955 min, 29 scans) (**) 2203

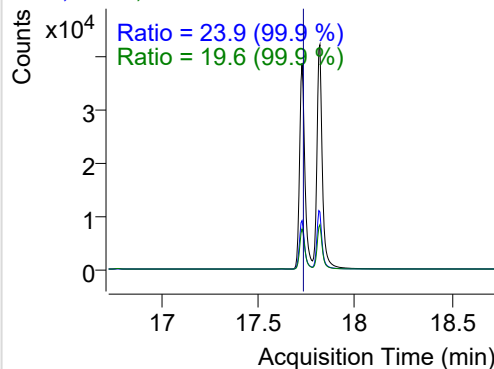


Benz(a)anthracene

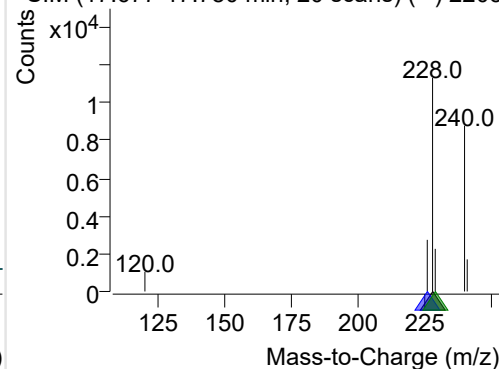
+ Selected Ion (228.0) 220302-PAHs-028.D



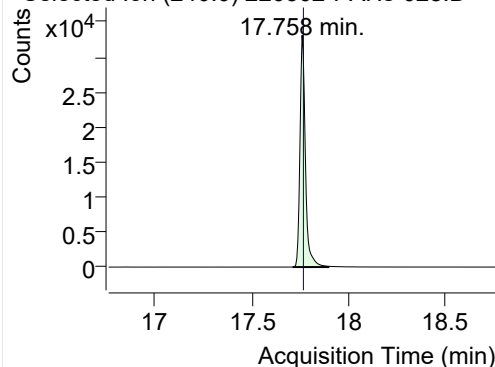
228.0, 226.0, 229.0



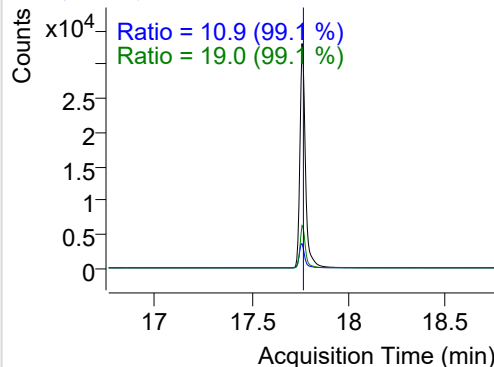
+ SIM (17.677-17.780 min, 20 scans) (**) 2203

**IS-D12-Chrysene**

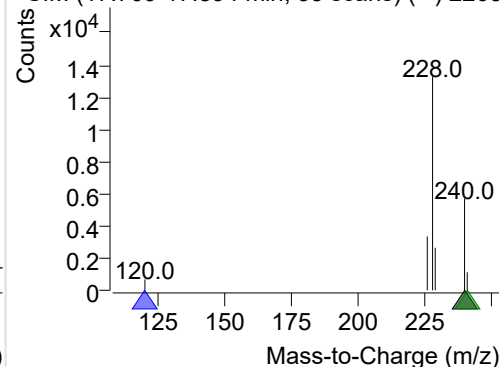
+ Selected Ion (240.0) 220302-PAHs-028.D



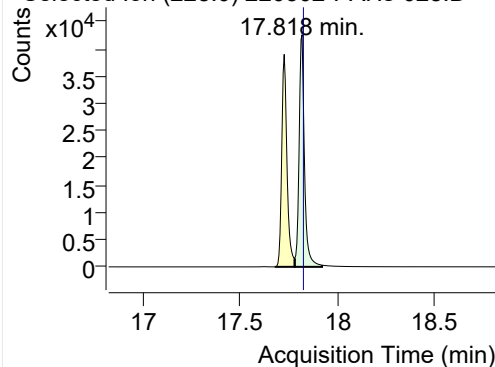
240.0, 120.0, 241.0



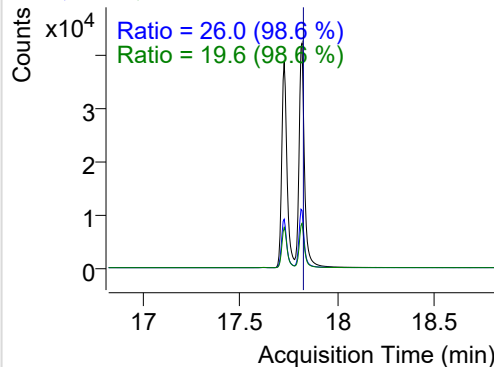
+ SIM (17.709-17.894 min, 35 scans) (**) 2203

**Chrysene**

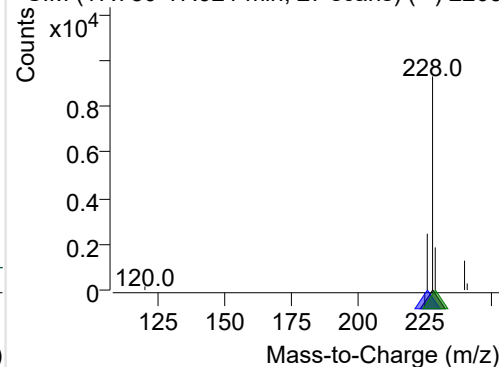
+ Selected Ion (228.0) 220302-PAHs-028.D



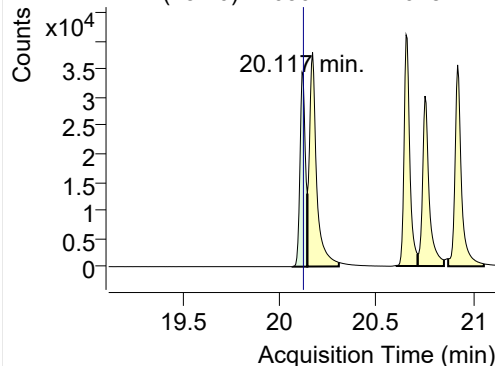
228.0, 226.0, 229.0



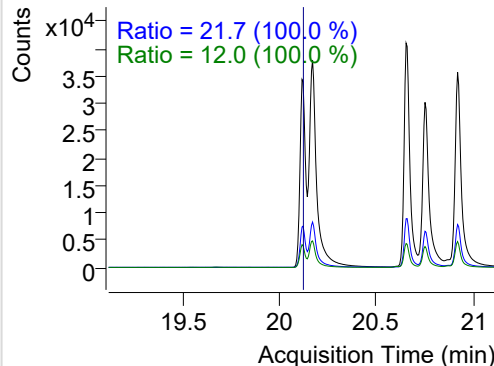
+ SIM (17.780-17.921 min, 27 scans) (**) 2203

**Benzo(b)fluoranthene**

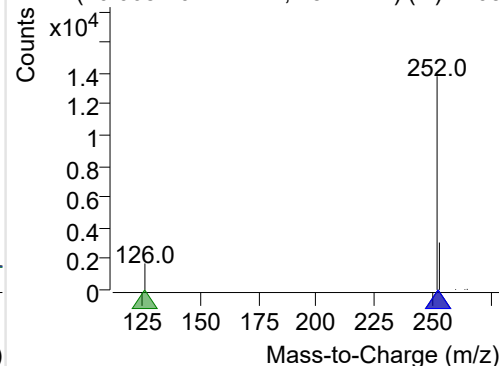
+ Selected Ion (252.0) 220302-PAHs-028.D



252.0, 253.0, 126.0

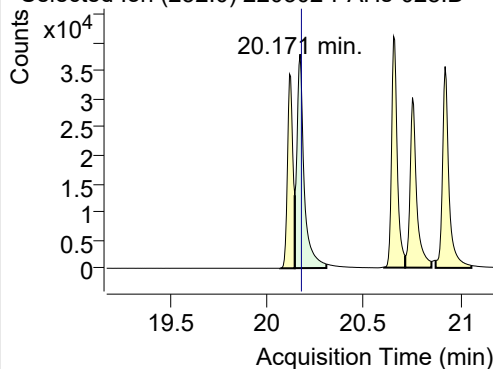


+ SIM (20.068-20.144 min, 15 scans) (**) 2203

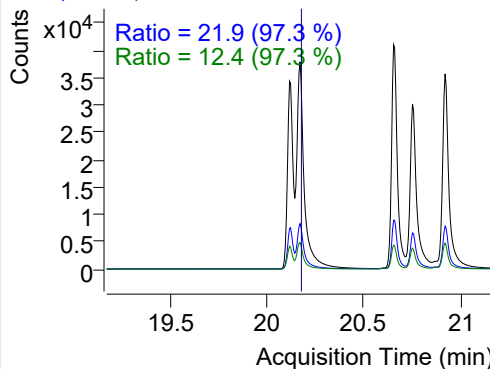


Benzo(k)fluoranthene

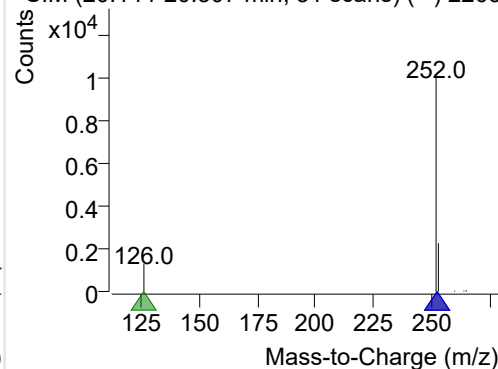
+ Selected Ion (252.0) 220302-PAHs-028.D



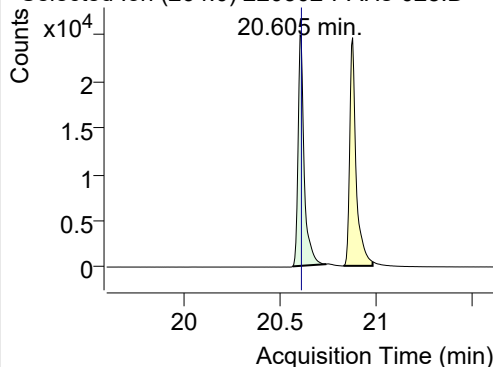
252.0, 253.0, 126.0



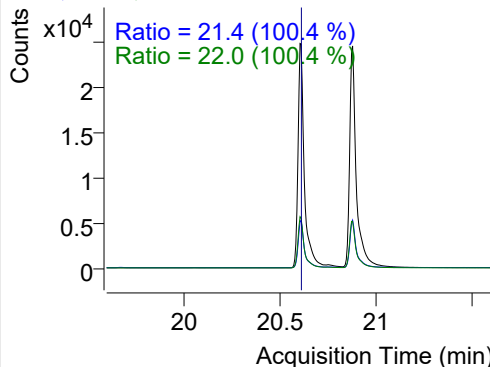
+ SIM (20.144-20.307 min, 31 scans) (**) 2203

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

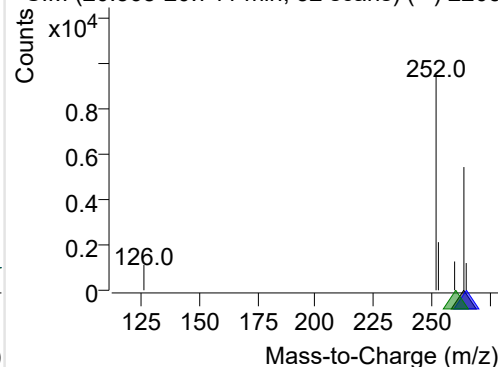
+ Selected Ion (264.0) 220302-PAHs-028.D



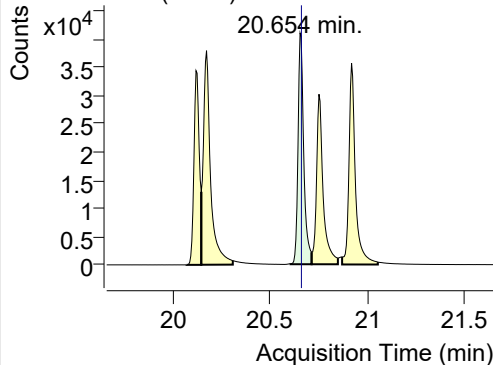
264.0, 265.0, 260.0



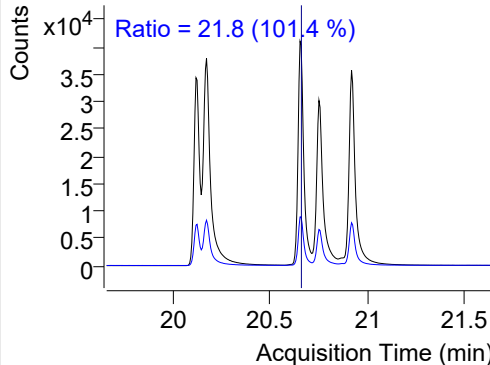
+ SIM (20.568-20.741 min, 32 scans) (**) 2203

**Benzo(e)pyrene**

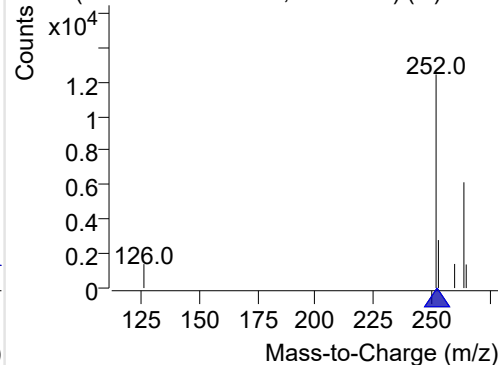
+ Selected Ion (252.0) 220302-PAHs-028.D



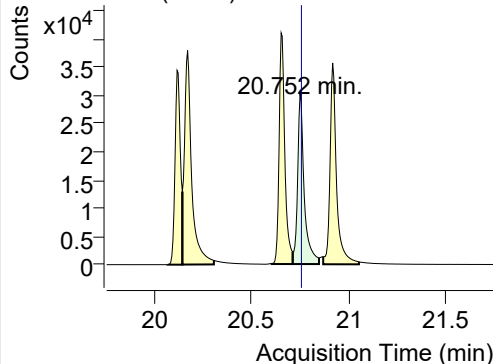
252.0, 253.0



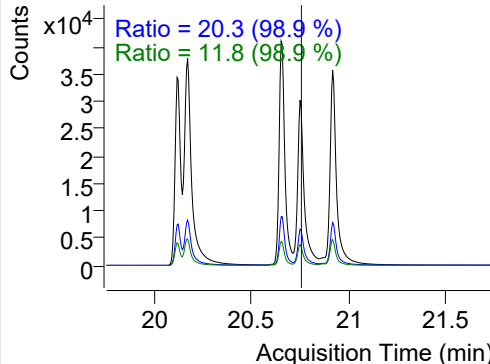
+ SIM (20.605-20.714 min, 21 scans) (**) 2203

**Benzo(a)pyrene**

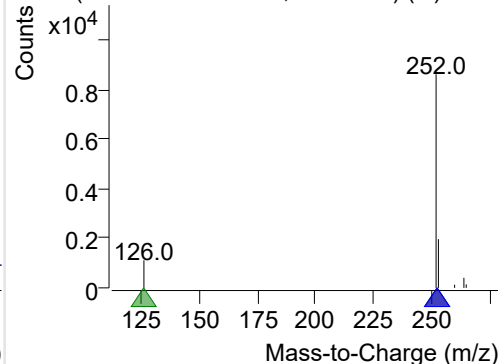
+ Selected Ion (252.0) 220302-PAHs-028.D



252.0, 253.0, 126.0

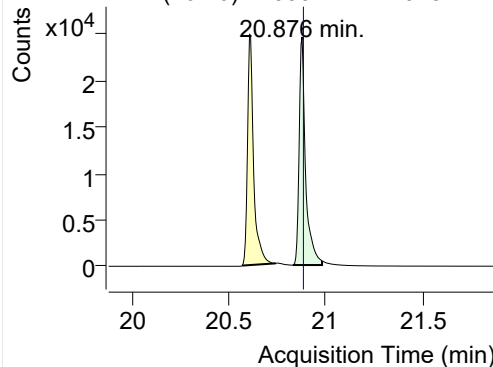


+ SIM (20.714-20.849 min, 26 scans) (**) 2203

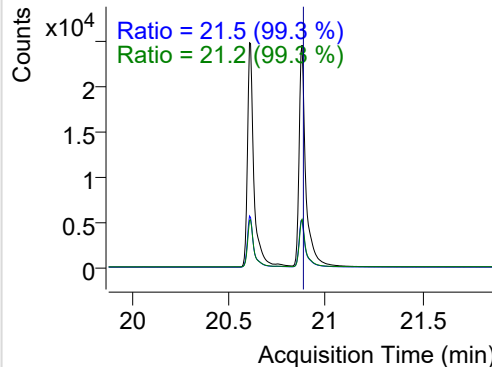


IS-D12-Perylene

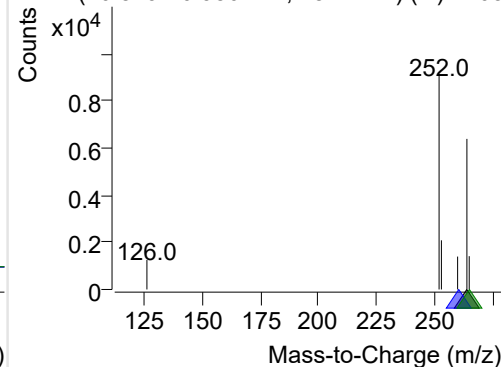
+ Selected Ion (264.0) 220302-PAHs-028.D



264.0, 260.0, 265.0

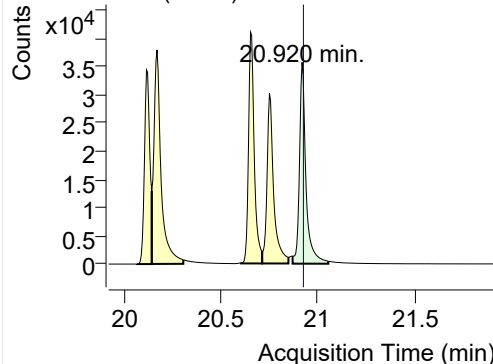


+ SIM (20.829-20.980 min, 28 scans) (**) 2203

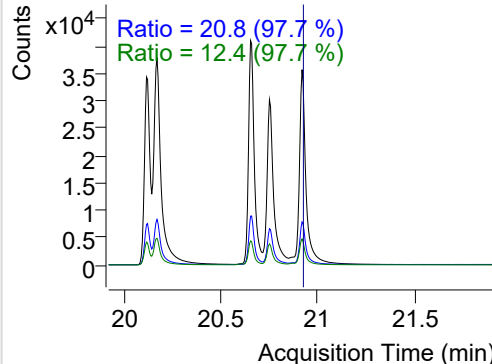


Perylene

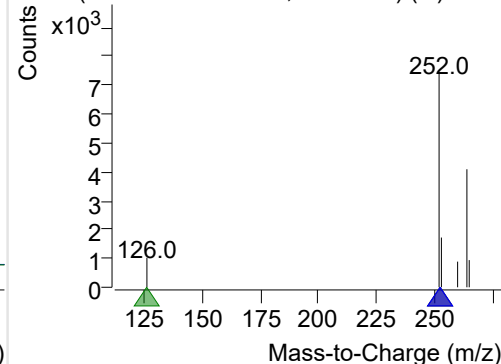
+ Selected Ion (252.0) 220302-PAHs-028.D



252.0, 253.0, 126.0

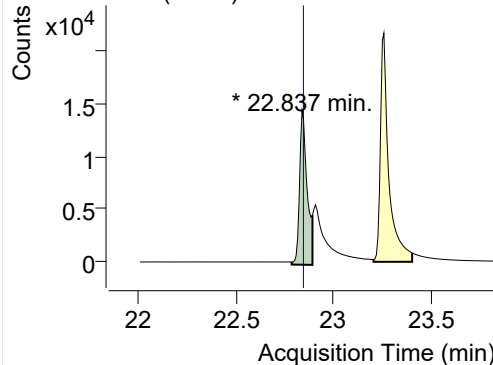


+ SIM (20.871-21.055 min, 35 scans) (**) 2203

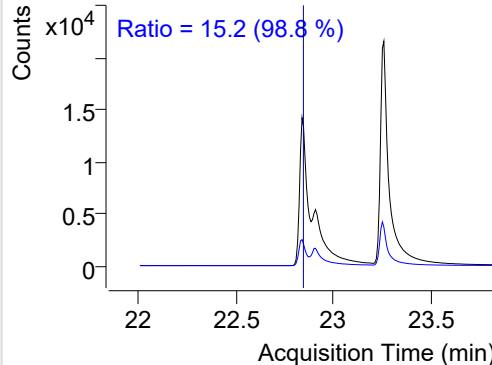


Indeno(1,2,3-c,d)pyrene

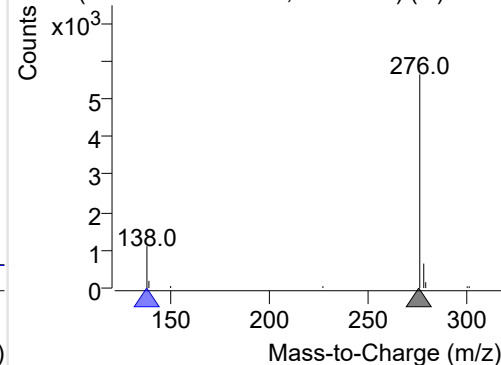
+ Selected Ion (276.0) 220302-PAHs-028.D



276.0, 138.0

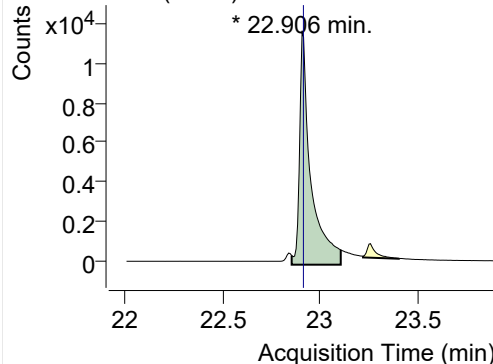


+ SIM (22.784-22.890 min, 15 scans) (**) 2203

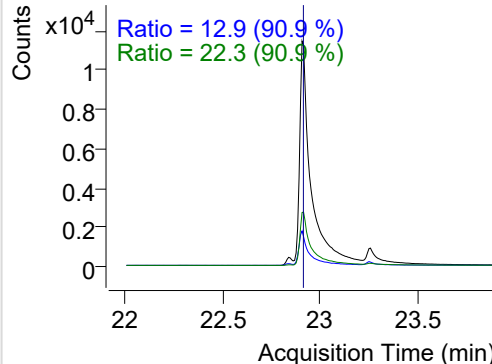


Dibenz(a,h)anthracene

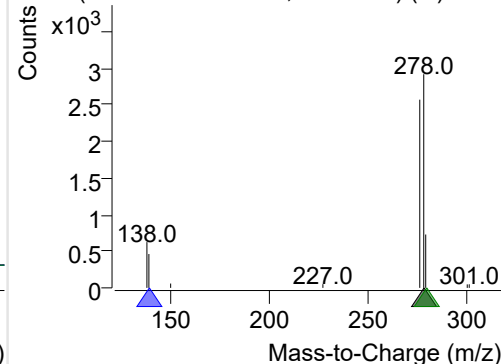
+ Selected Ion (278.0) 220302-PAHs-028.D



278.0, 139.0, 279.0

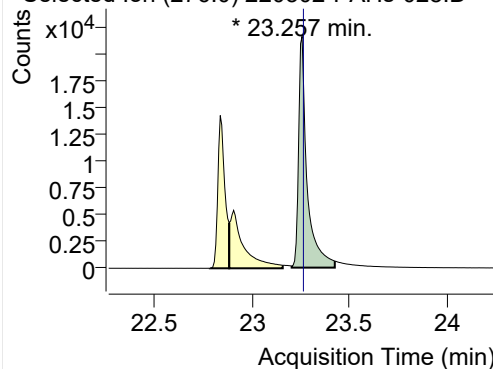


+ SIM (22.852-23.104 min, 34 scans) (**) 2203

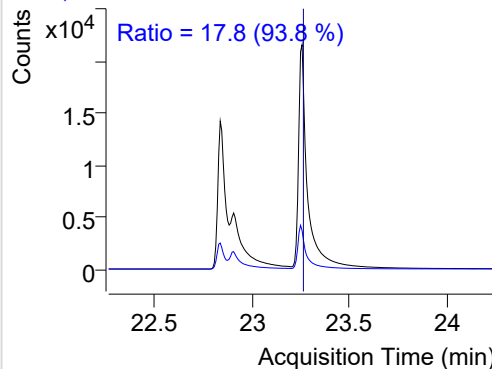


Benzo(g,h,i)perylene

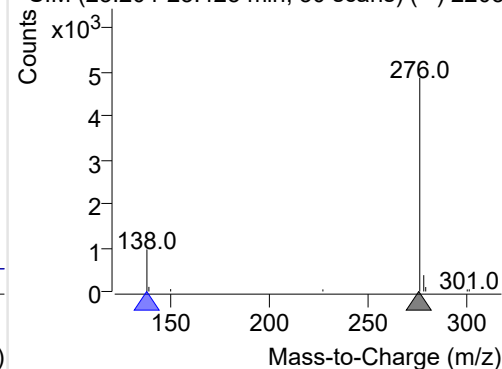
+ Selected Ion (276.0) 220302-PAHs-028.D



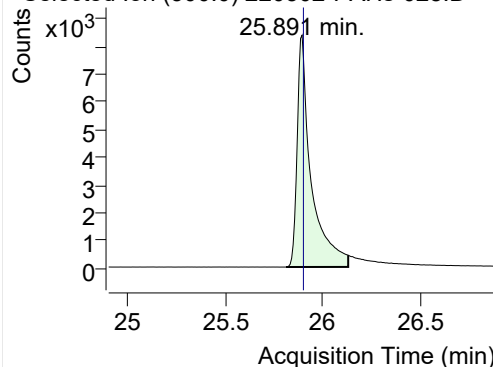
276.0, 138.0



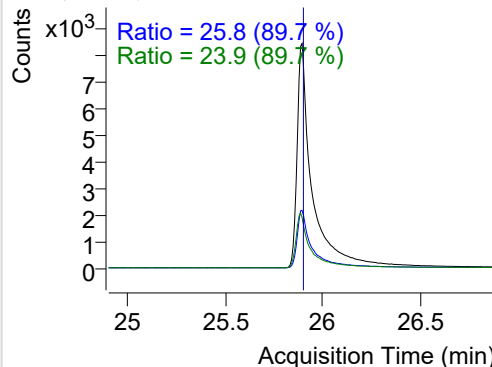
+ SIM (23.204-23.425 min, 30 scans) (**) 2203

**Coronene**

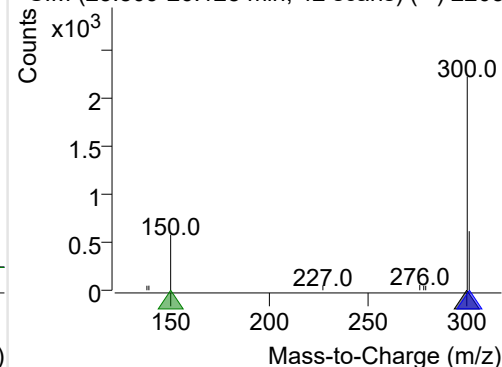
+ Selected Ion (300.0) 220302-PAHs-028.D



300.0, 301.0, 150.0



+ SIM (25.809-26.128 min, 42 scans) (**) 2203



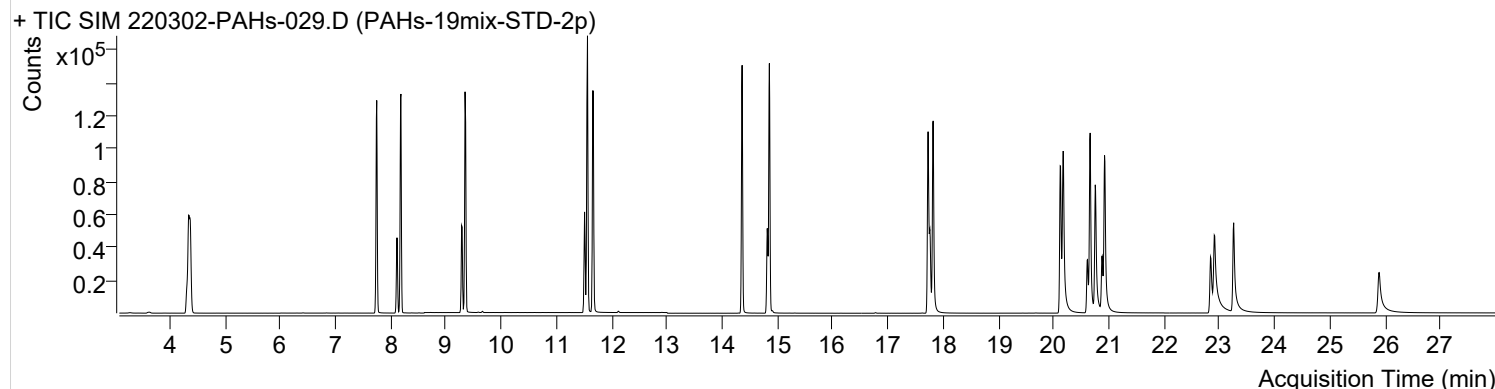
Quantitative Analysis Sample Based Report



Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 12:20:22	Data File	220302-PAHs-029.D
Type	Cal	Name	PAHs-19mix-STD-2p
Dil.	1	Acq. Method File	PAHs 19mix-Method

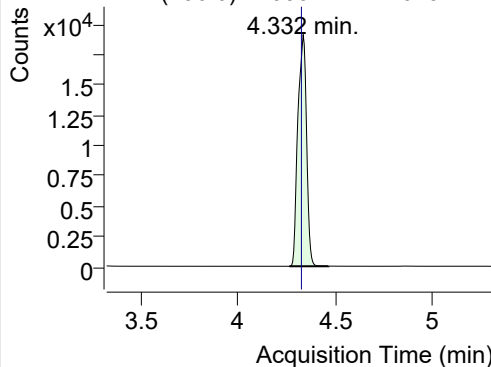
Sample Chromatogram



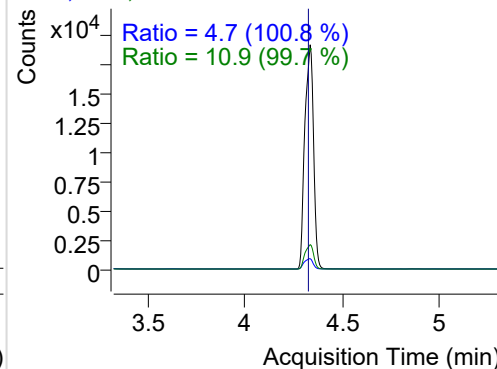
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.332	136.0	59381	19144.98	ND ng/ml	10.9
Naphthalene	4.370	128.0	140110	44226.63	ND ng/ml	13.0
Acenaphthylene	7.745	152.0	145410	96493.29	ND ng/ml	19.7
IS-D10-Acenaphthene	8.112	164.0	34850	22508.69	ND ng/ml	89.2
Acenaphthene	8.183	154.0	77074	50972.61	ND ng/ml	101.4
LSS-D10-Fluorene	9.292	176.0	41387	25199.72	ND ng/ml	87.0
Fluorene	9.344	166.0	105632	65087.24	ND ng/ml	88.6
IS-D10-Phenanthrene	11.508	188.0	71238	49617.04	ND ng/ml	15.5
Phenanthrene	11.560	178.0	170745	113591.4	ND ng/ml	17.2
Anthracene	11.665	178.0	157994	93084.93	ND ng/ml	16.6
Fluoranthene	14.359	202.0	177490	118359.6	ND ng/ml	17.3
LSS-D10-Pyrene	14.814	212.0	62601	39202.84	ND ng/ml	16.9
Pyrene	14.852	202.0	185429	117264.1	ND ng/ml	17.2
Benz(a)anthracene	17.725	228.0	140068	76491.68	ND ng/ml	24.0
IS-D12-Chrysene	17.758	240.0	61542	30746.42	ND ng/ml	19.1
Chrysene	17.818	228.0	150399	79111.27	ND ng/ml	26.2
Benzo(b)fluoranthene	20.117	252.0	125575	66850.00	ND ng/ml	21.6
Benzo(k)fluoranthene	20.171	252.0	186319	73031.71	ND ng/ml	21.9
SS-D12-Benzo(e)pyrene	20.610	264.0	51153	22122.78	ND ng/ml	23.0
Benzo(e)pyrene	20.659	252.0	154217	79563.81	ND ng/ml	21.7
Benzo(a)pyrene	20.751	252.0	136902	57493.94	ND ng/ml	20.1
IS-D12-Perylene	20.876	264.0	53715	21898.31	ND ng/ml	21.0
Perylene	20.920	252.0	154739	66612.45	ND ng/ml	20.7
Indeno(1,2,3-c,d)pyrene	22.837	276.0	67571	27381.44	ND ng/ml	17.8
Dibenz(a,h)anthracene	22.913	278.0	82018	23551.33	ND ng/ml	26.2
Benzo(g,h,i)perylene	23.257	276.0	115458	43674.76	ND ng/ml	20.5
Coronene	25.891	300.0	72984	16330.32	ND ng/ml	27.6

IS-D8-Naphthalene

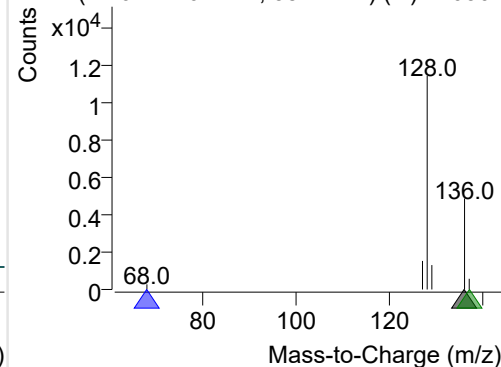
+ Selected Ion (136.0) 220302-PAHs-029.D



136.0, 68.0, 137.0

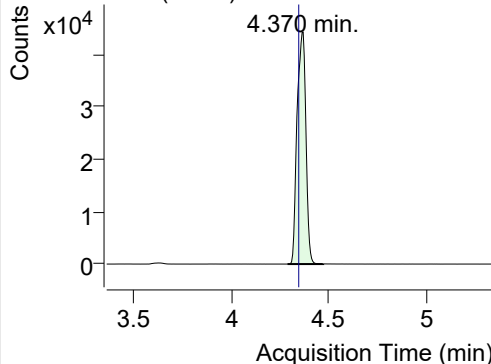


+ SIM (4.261-4.462 min, 38 scans) (**) 220302

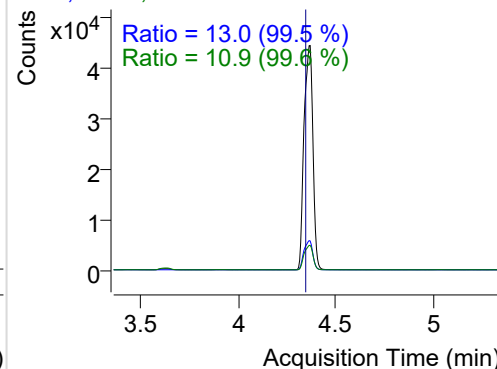


Naphthalene

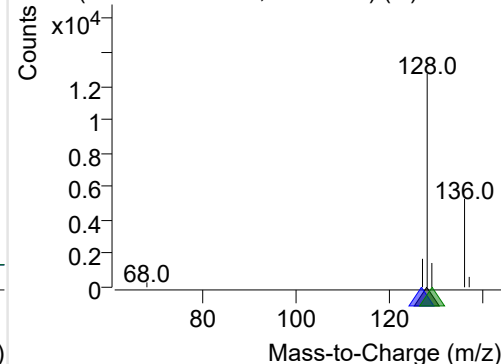
+ Selected Ion (128.0) 220302-PAHs-029.D



128.0, 127.0, 129.0

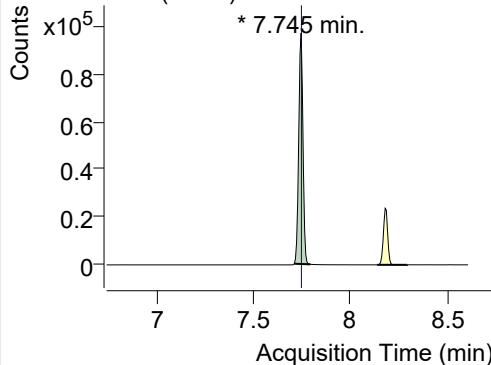


+ SIM (4.289-4.473 min, 34 scans) (**) 220302

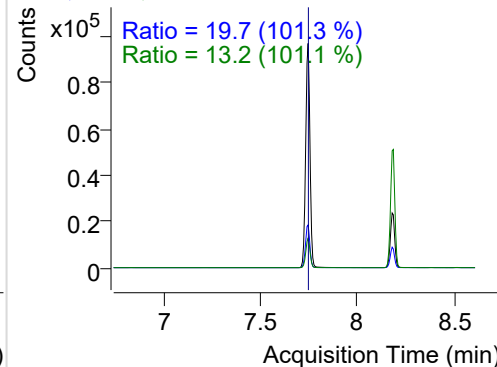


Acenaphthylene

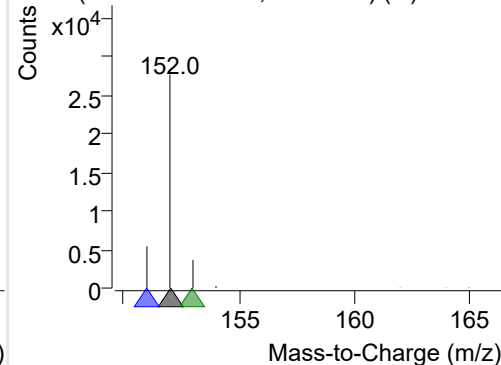
+ Selected Ion (152.0) 220302-PAHs-029.D



152.0, 151.0, 153.0

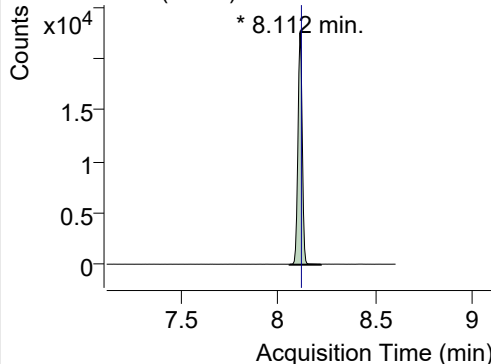


+ SIM (7.710-7.792 min, 15 scans) (**) 220302

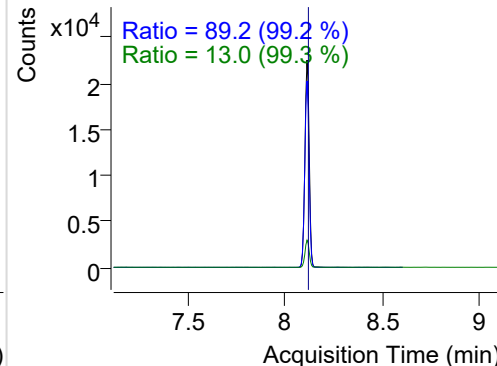


IS-D10-Acenaphthene

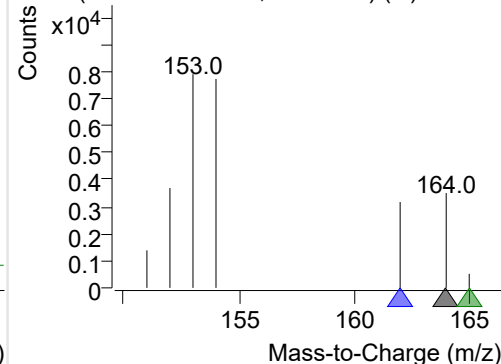
+ Selected Ion (164.0) 220302-PAHs-029.D



164.0, 162.0, 165.0

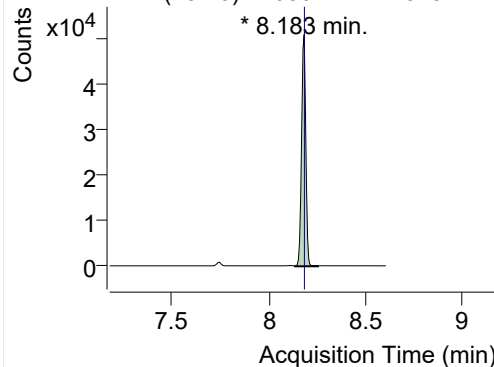


+ SIM (8.059-8.219 min, 28 scans) (**) 220302

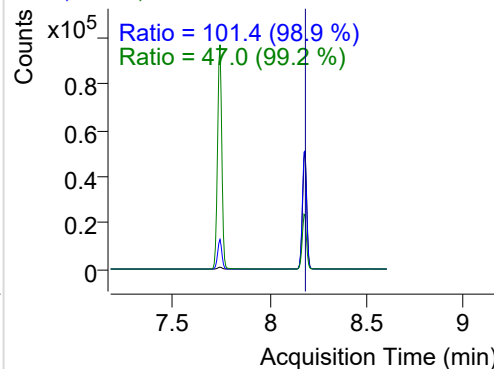


Acenaphthene

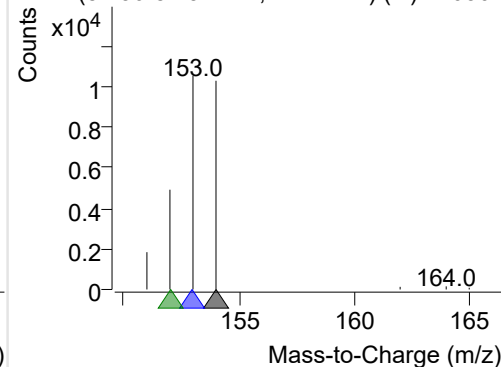
+ Selected Ion (154.0) 220302-PAHs-029.D



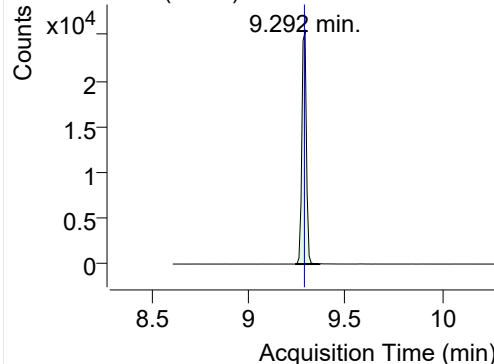
154.0, 153.0, 152.0



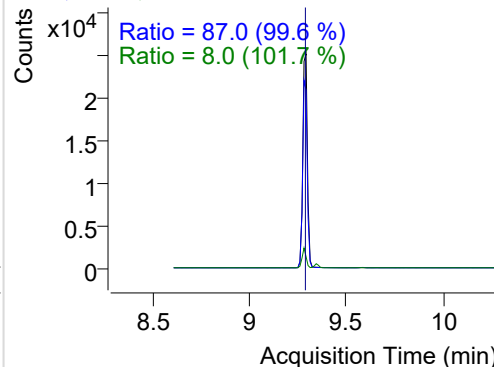
+ SIM (8.136-8.254 min, 21 scans) (**) 220302

**LSS-D10-Fluorene**

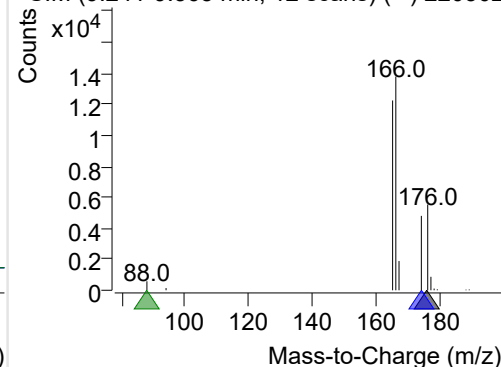
+ Selected Ion (176.0) 220302-PAHs-029.D



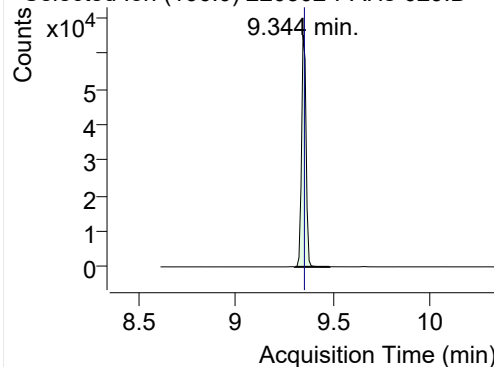
176.0, 174.0, 88.0



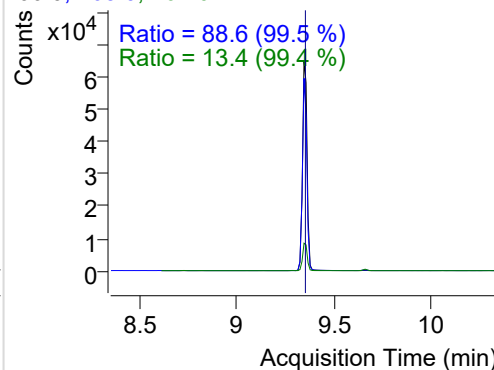
+ SIM (9.241-9.365 min, 12 scans) (**) 220302

**Fluorene**

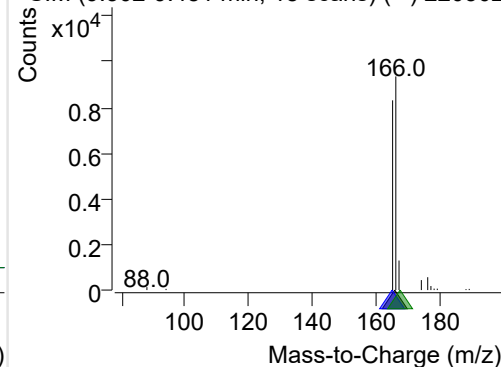
+ Selected Ion (166.0) 220302-PAHs-029.D



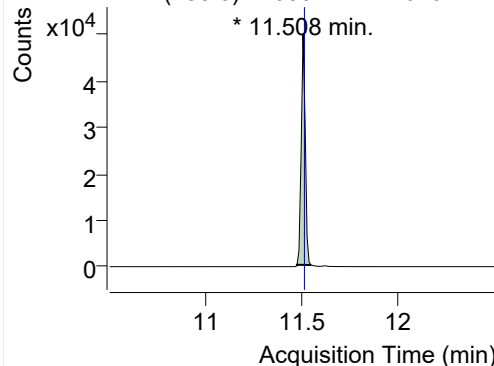
166.0, 165.0, 167.0



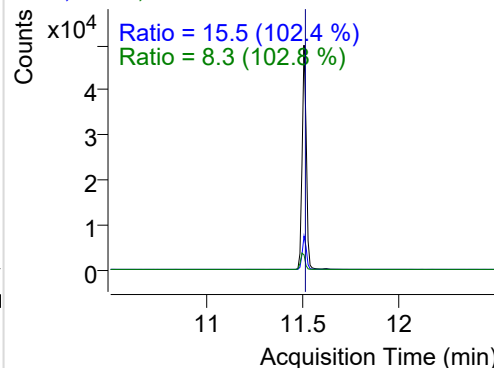
+ SIM (9.302-9.481 min, 18 scans) (**) 220302

**IS-D10-Phenanthrene**

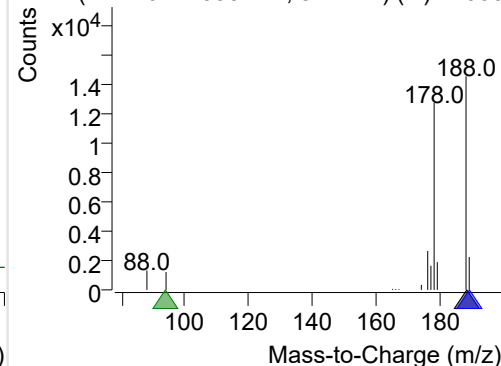
+ Selected Ion (188.0) 220302-PAHs-029.D



188.0, 189.0, 94.0

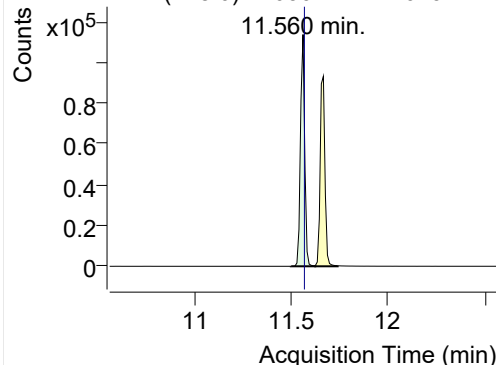


+ SIM (11.476-11.550 min, 8 scans) (**) 220302

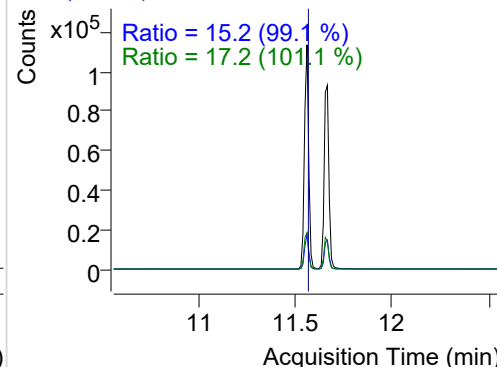


Phenanthrene

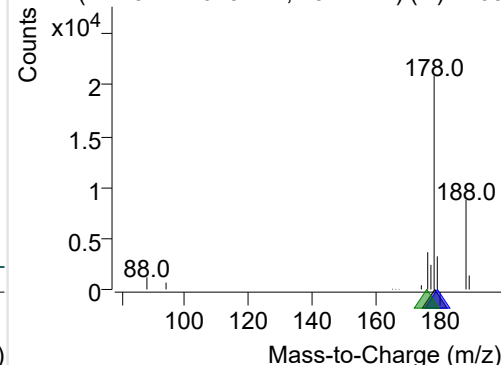
+ Selected Ion (178.0) 220302-PAHs-029.D



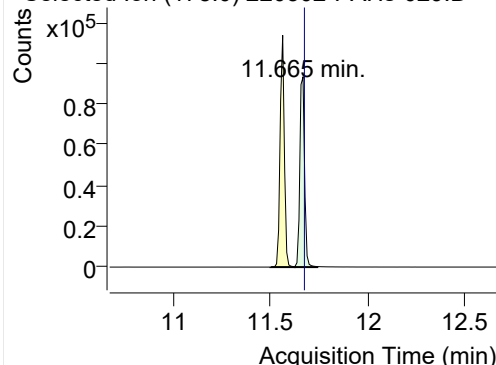
178.0, 179.0, 176.0

Ratio = 15.2 (99.1 %)
Ratio = 17.2 (101.1 %)

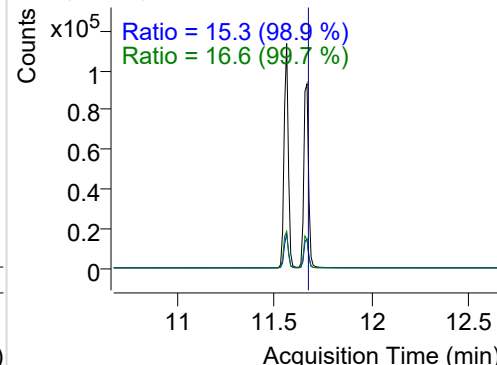
+ SIM (11.497-11.623 min, 13 scans) (**) 2203

**Anthracene**

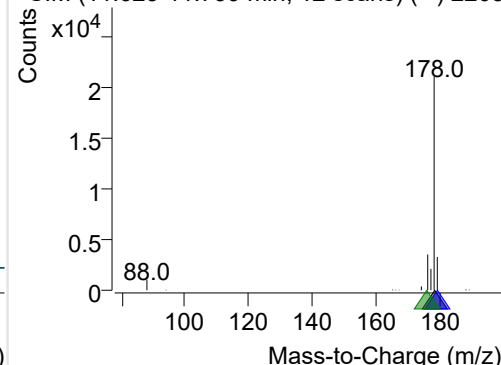
+ Selected Ion (178.0) 220302-PAHs-029.D



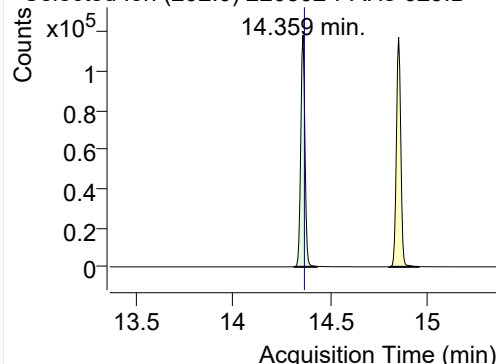
178.0, 179.0, 176.0

Ratio = 15.3 (98.9 %)
Ratio = 16.6 (99.7 %)

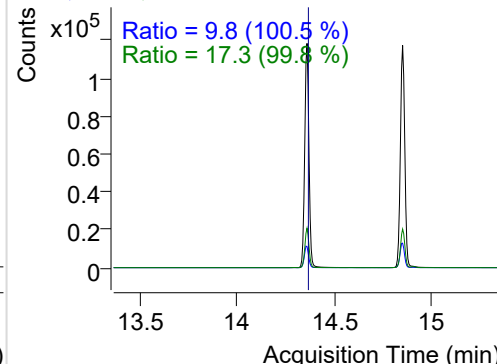
+ SIM (11.623-11.739 min, 12 scans) (**) 2203

**Fluoranthene**

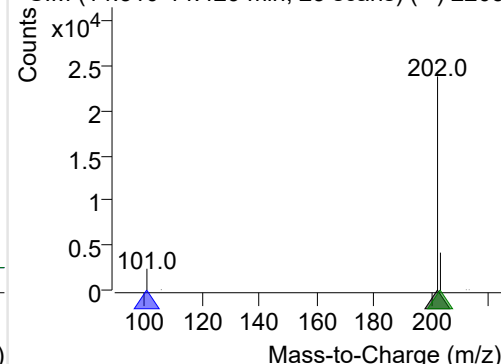
+ Selected Ion (202.0) 220302-PAHs-029.D



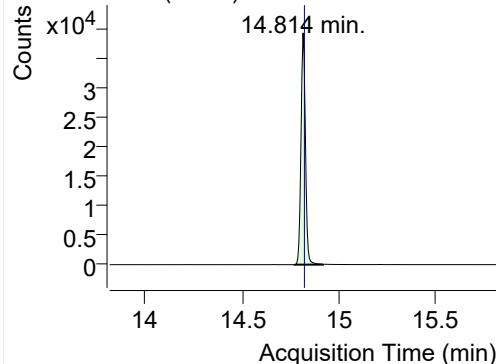
202.0, 101.0, 203.0

Ratio = 9.8 (100.5 %)
Ratio = 17.3 (99.8 %)

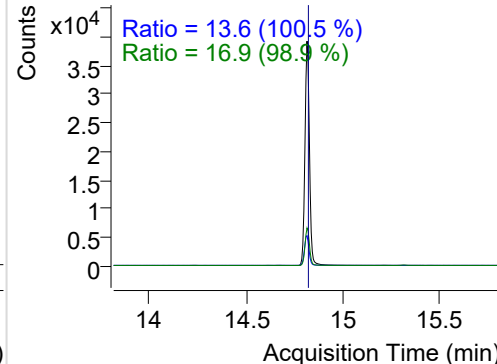
+ SIM (14.310-14.429 min, 23 scans) (**) 2203

**LSS-D10-Pyrene**

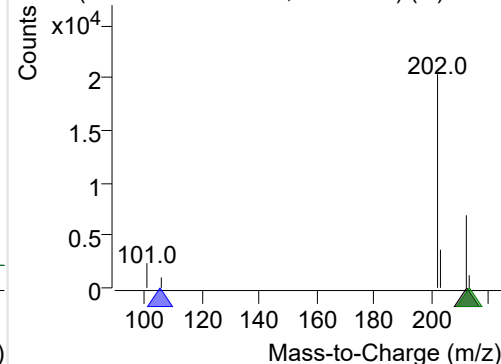
+ Selected Ion (212.0) 220302-PAHs-029.D



212.0, 106.0, 213.0

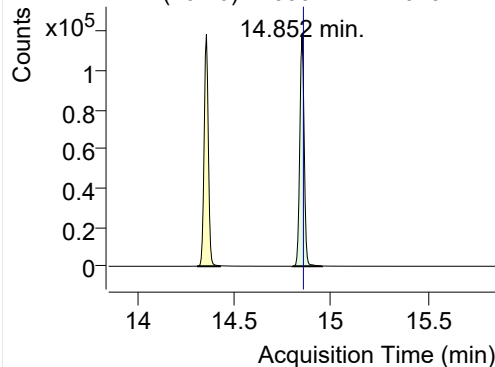
Ratio = 13.6 (100.5 %)
Ratio = 16.9 (98.9 %)

+ SIM (14.771-14.917 min, 28 scans) (**) 2203

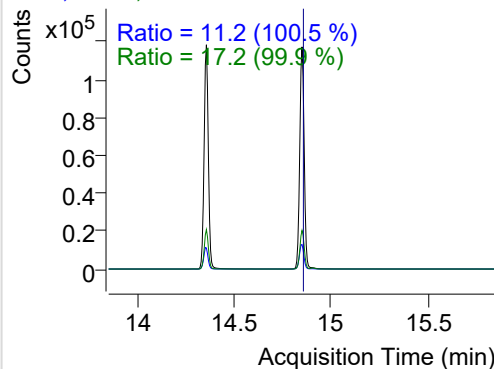


Pyrene

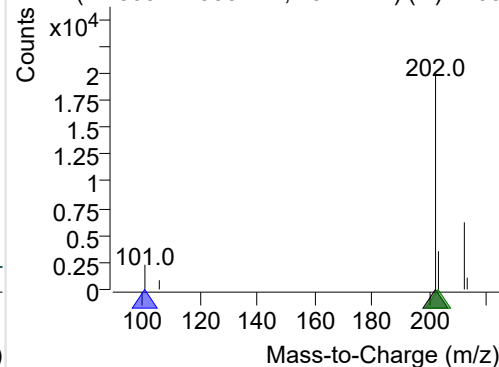
+ Selected Ion (202.0) 220302-PAHs-029.D



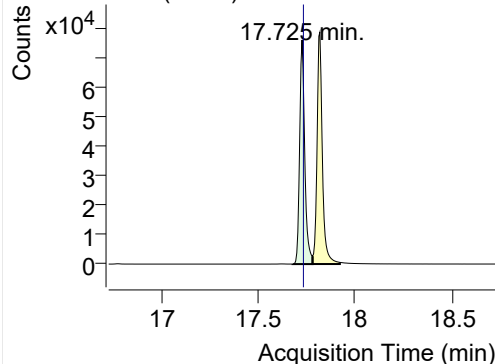
202.0, 101.0, 203.0



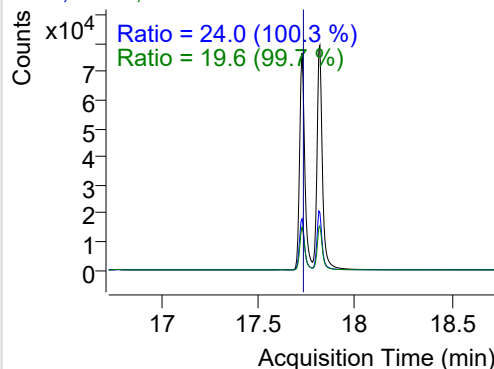
+ SIM (14.803-14.955 min, 29 scans) (**) 2203

**Benz(a)anthracene**

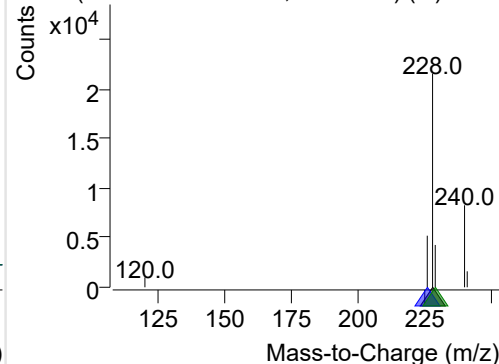
+ Selected Ion (228.0) 220302-PAHs-029.D



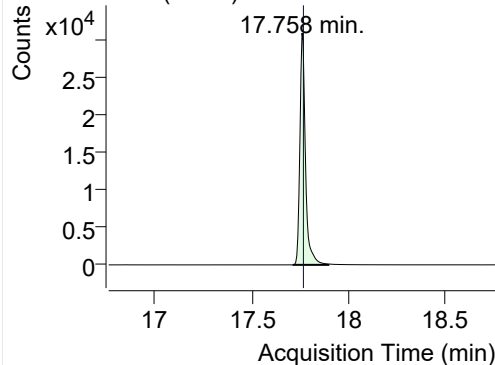
228.0, 226.0, 229.0



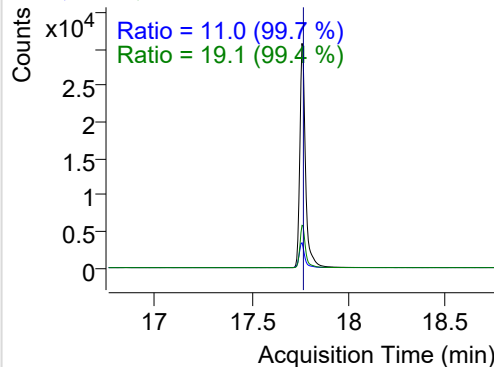
+ SIM (17.677-17.780 min, 20 scans) (**) 2203

**IS-D12-Chrysene**

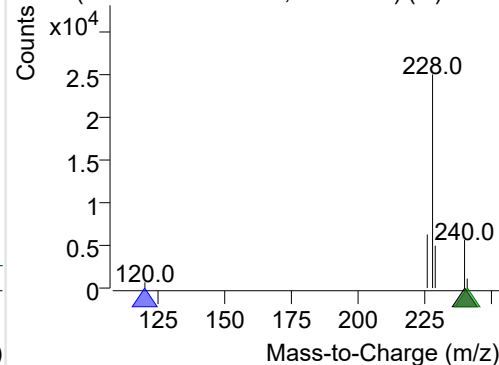
+ Selected Ion (240.0) 220302-PAHs-029.D



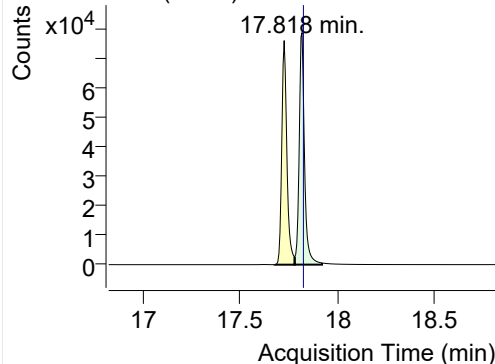
240.0, 120.0, 241.0



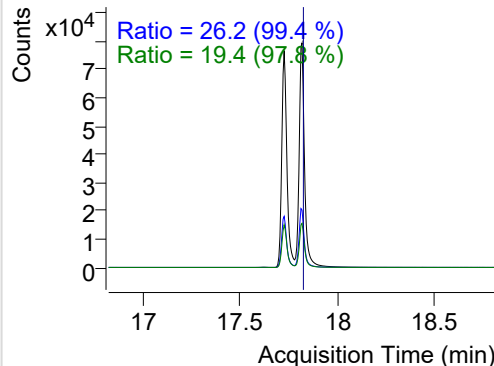
+ SIM (17.709-17.893 min, 34 scans) (**) 2203

**Chrysene**

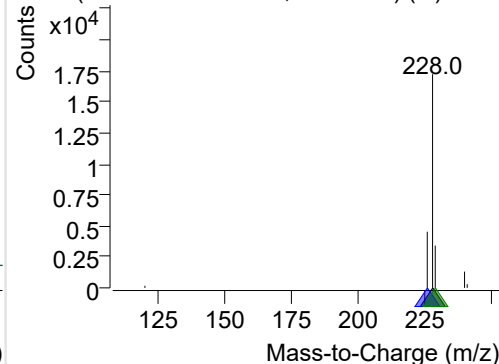
+ Selected Ion (228.0) 220302-PAHs-029.D



228.0, 226.0, 229.0

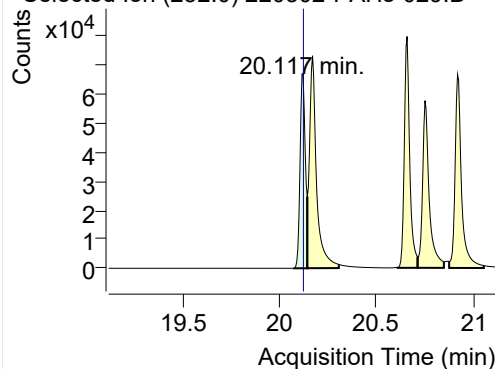


+ SIM (17.780-17.921 min, 27 scans) (**) 2203

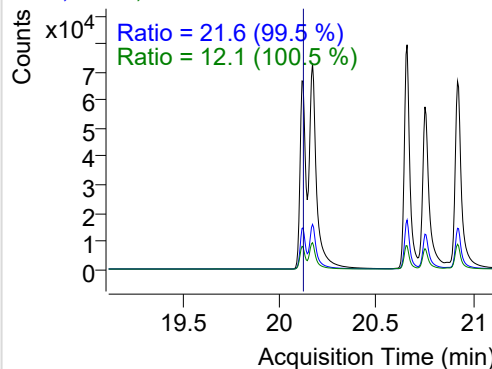


Benzo(b)fluoranthene

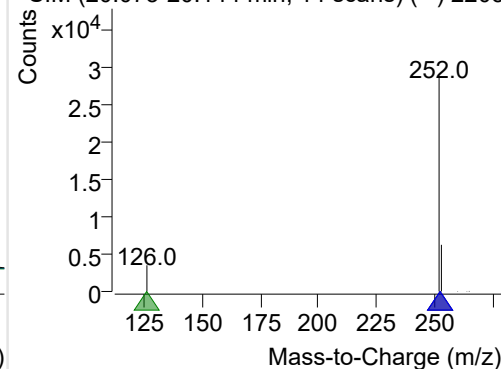
+ Selected Ion (252.0) 220302-PAHs-029.D



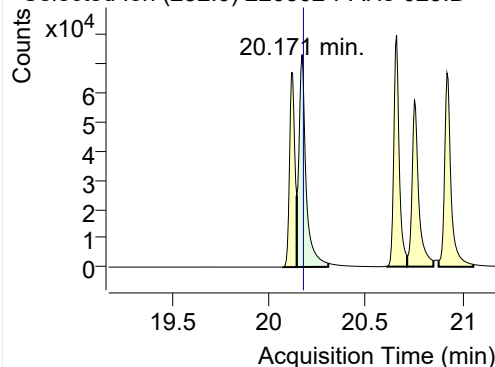
252.0, 253.0, 126.0



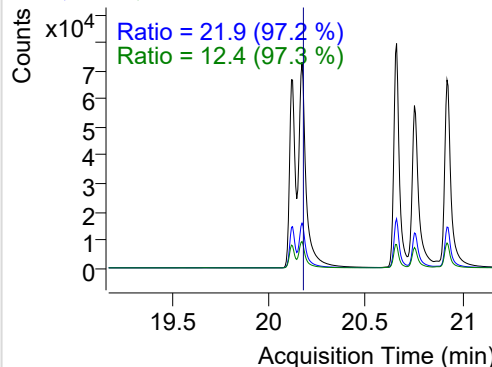
+ SIM (20.073-20.144 min, 14 scans) (**) 2203

**Benzo(k)fluoranthene**

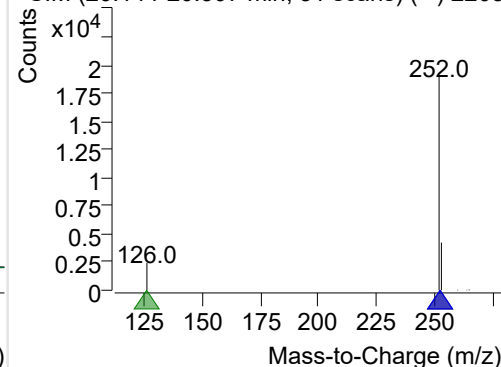
+ Selected Ion (252.0) 220302-PAHs-029.D



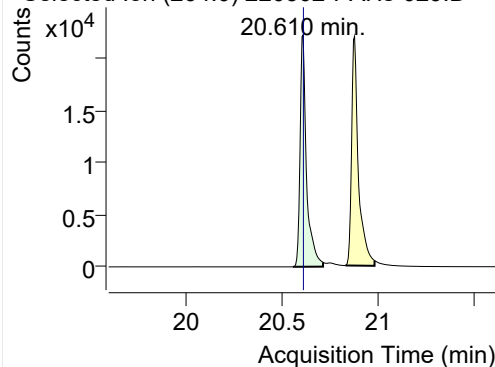
252.0, 253.0, 126.0



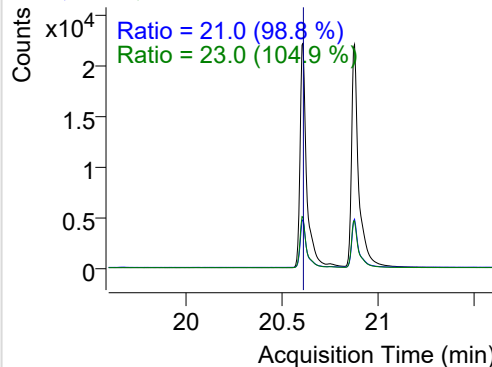
+ SIM (20.144-20.307 min, 31 scans) (**) 2203

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

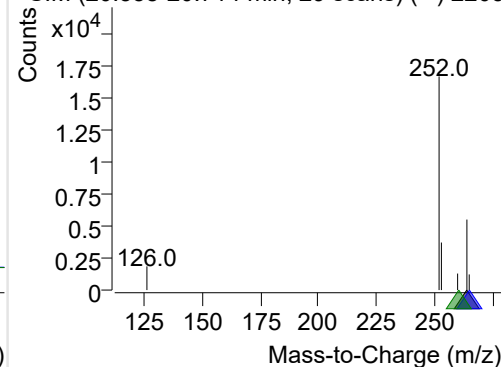
+ Selected Ion (264.0) 220302-PAHs-029.D



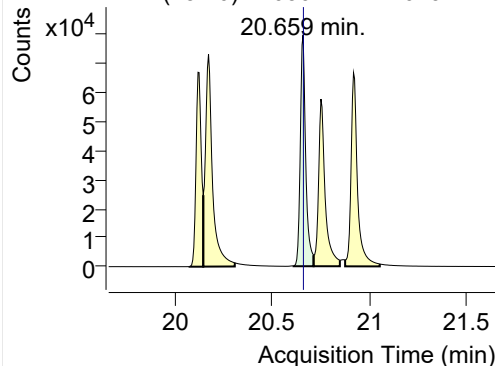
264.0, 265.0, 260.0



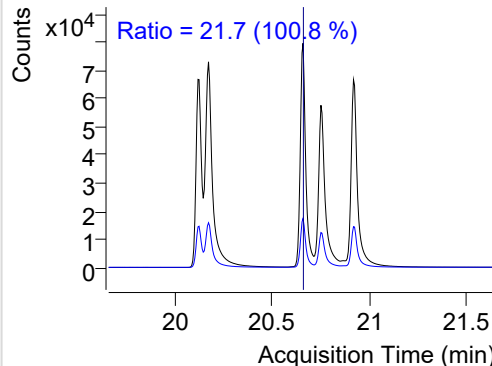
+ SIM (20.558-20.714 min, 29 scans) (**) 2203

**Benzo(e)pyrene**

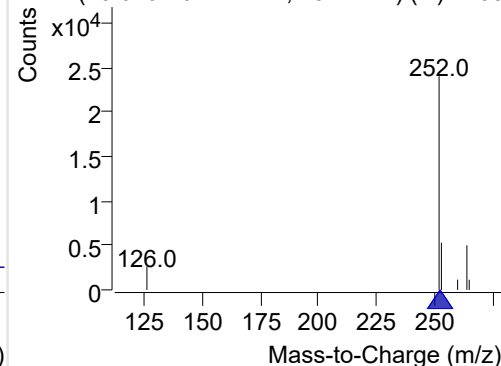
+ Selected Ion (252.0) 220302-PAHs-029.D



252.0, 253.0

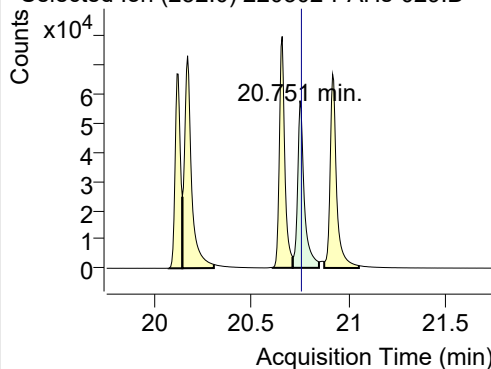


+ SIM (20.610-20.714 min, 20 scans) (**) 2203

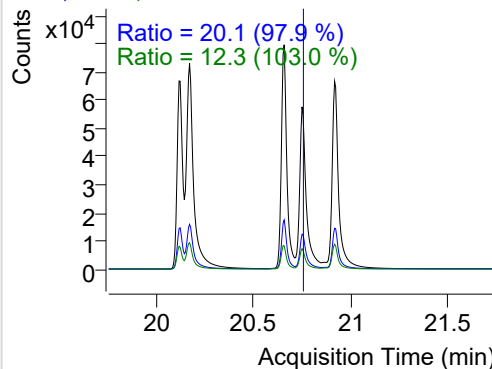


Benzo(a)pyrene

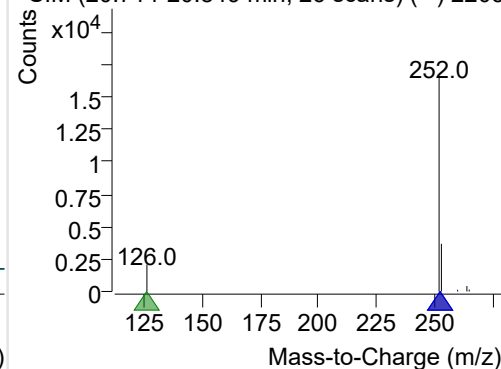
+ Selected Ion (252.0) 220302-PAHs-029.D



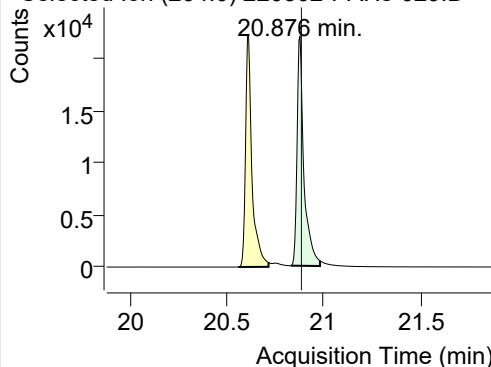
252.0, 253.0, 126.0



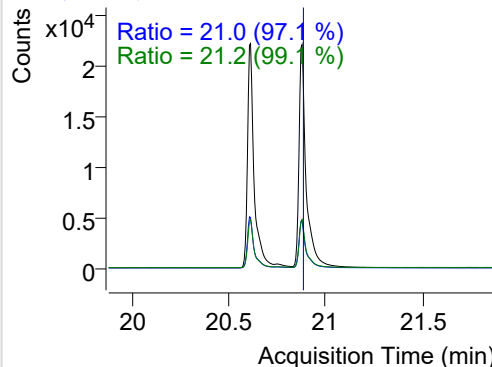
+ SIM (20.714-20.849 min, 26 scans) (**) 2203

**IS-D12-Perylene**

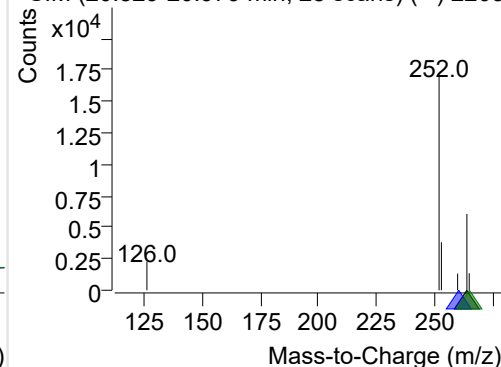
+ Selected Ion (264.0) 220302-PAHs-029.D



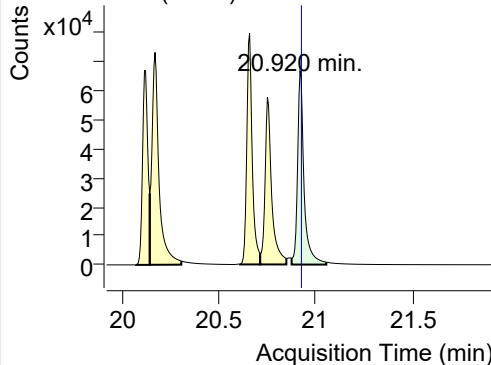
264.0, 260.0, 265.0



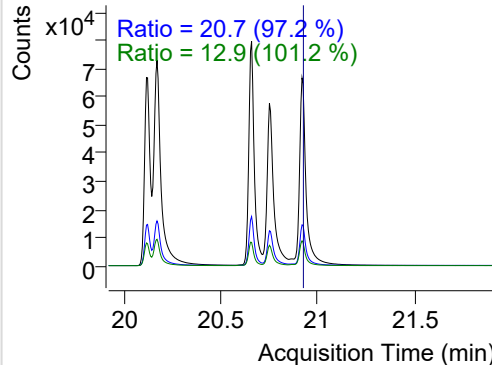
+ SIM (20.829-20.979 min, 28 scans) (**) 2203

**Perylene**

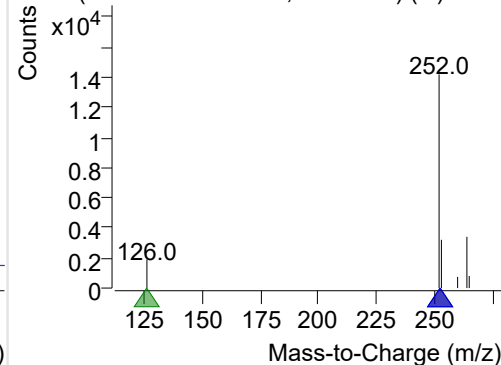
+ Selected Ion (252.0) 220302-PAHs-029.D



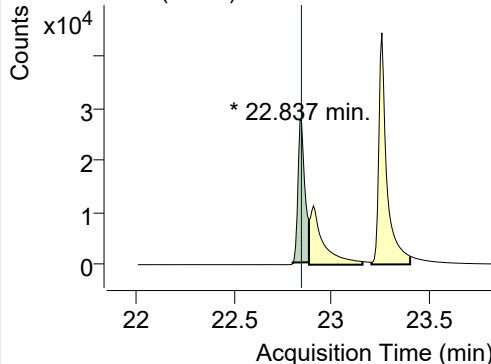
252.0, 253.0, 126.0



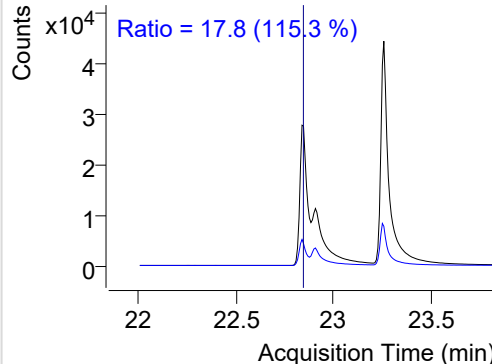
+ SIM (20.876-21.055 min, 34 scans) (**) 2203

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

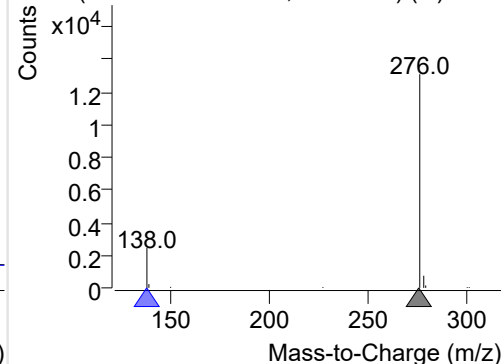
+ Selected Ion (276.0) 220302-PAHs-029.D



276.0, 138.0

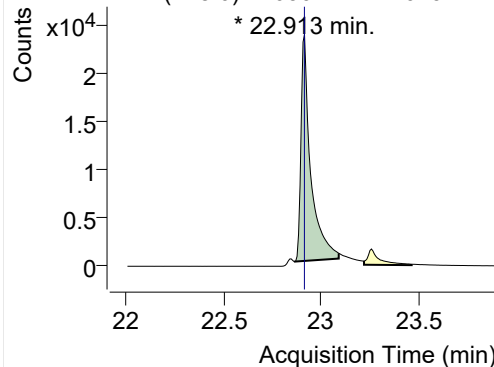


+ SIM (22.799-22.883 min, 12 scans) (**) 2203

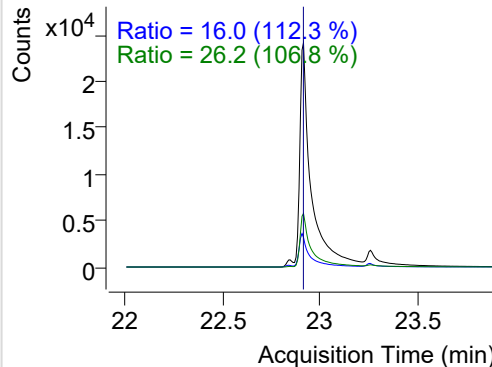


Dibenz(a,h)anthracene

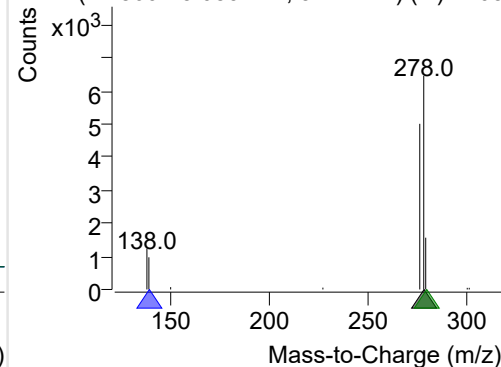
+ Selected Ion (278.0) 220302-PAHs-029.D



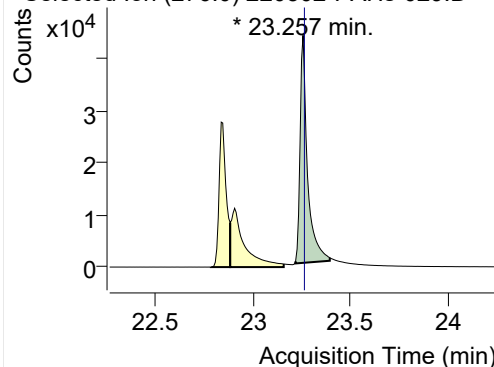
278.0, 139.0, 279.0



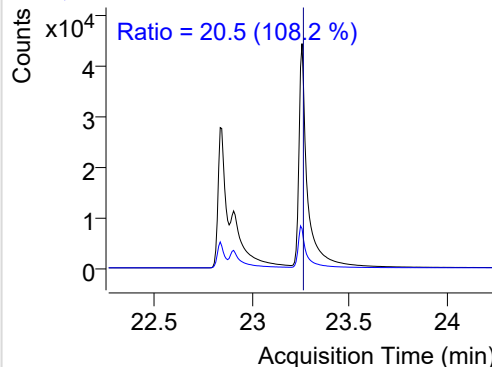
+ SIM (22.860-23.089 min, 31 scans) (**) 2203

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

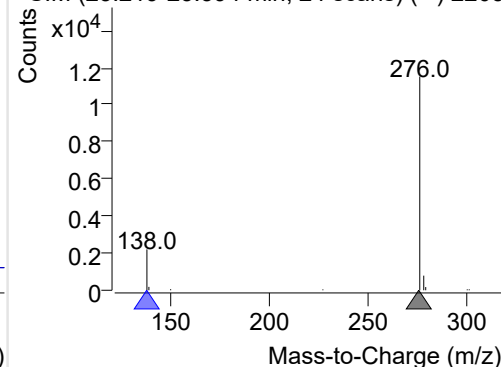
+ Selected Ion (276.0) 220302-PAHs-029.D



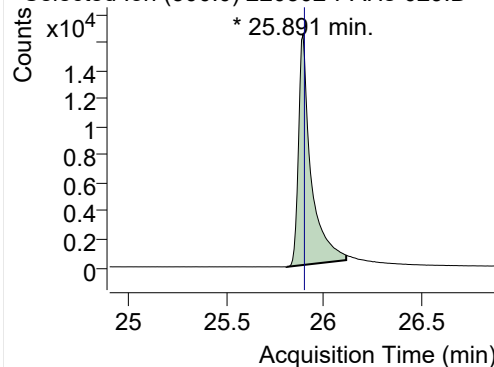
276.0, 138.0



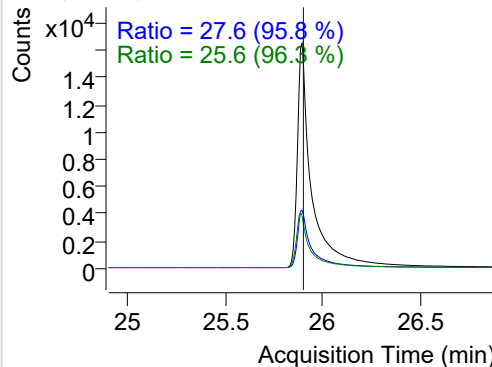
+ SIM (23.219-23.394 min, 24 scans) (**) 2203

**Coronene**

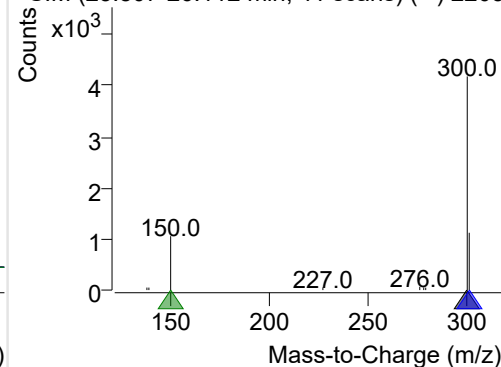
+ Selected Ion (300.0) 220302-PAHs-029.D



300.0, 301.0, 150.0



+ SIM (25.807-26.112 min, 41 scans) (**) 2203



Quantitative Analysis Sample Based Report

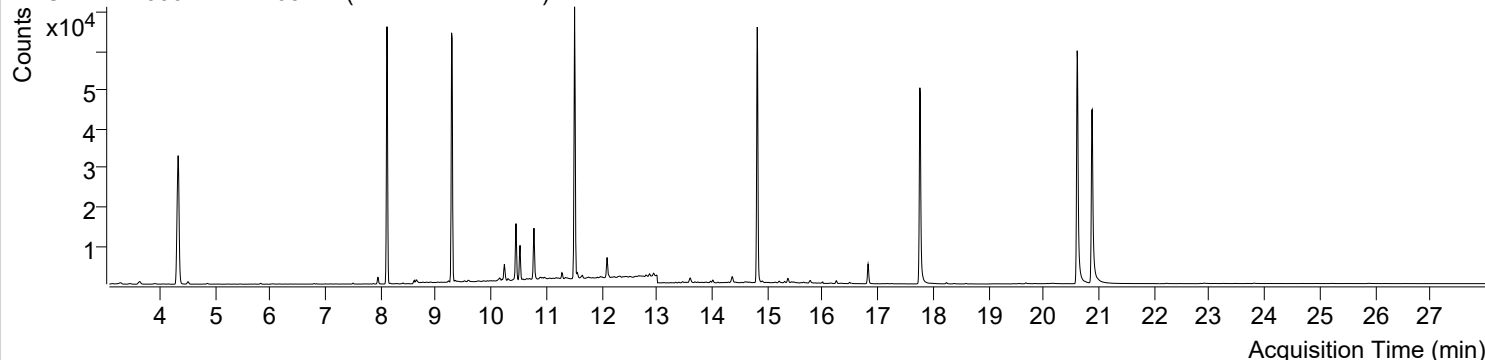


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 1:22:41	Data File	220302-PAHs-031.D
Type	Sample	Name	Method blank-PM
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

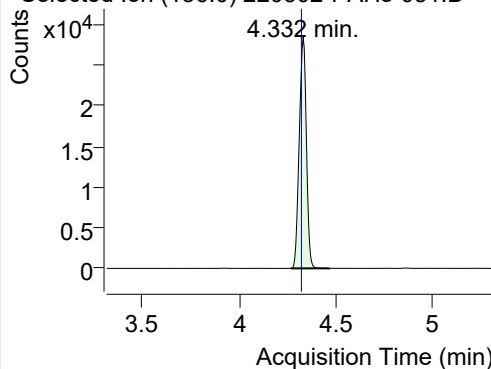
+ TIC SIM 220302-PAHs-031.D (Method blank-PM)



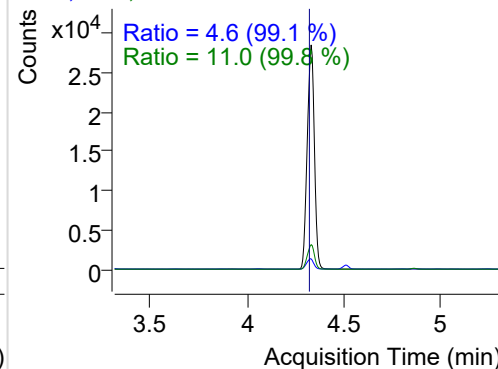
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.332	136.0	72405	28418.36	ND ng/ml	11.0
Naphthalene	4.370	128.0	649	251.03	ND ng/ml	14.2
Acenaphthylene	7.745	152.0	25	16.41	ND ng/ml	55.5
IS-D10-Acenaphthene	8.112	164.0	48238	32816.33	ND ng/ml	87.3
Acenaphthene	8.177	154.0	58	36.65	ND ng/ml	100.9
LSS-D10-Fluorene	9.292	176.0	51218	30909.51	ND ng/ml	83.9
Fluorene	9.344	166.0	223	136.04	ND ng/ml	79.1
IS-D10-Phenanthrene	11.508	188.0	85789	56579.88	ND ng/ml	15.2
Phenanthrene	11.560	178.0	1334	857.52	ND ng/ml	17.4
Anthracene	11.655	178.0	278	167.02	ND ng/ml	26.0
Fluoranthene	14.359	202.0	825	493.70	ND ng/ml	37.7
LSS-D10-Pyrene	14.814	212.0	79788	50162.87	ND ng/ml	16.9
Pyrene	14.852	202.0	745	389.05	ND ng/ml	68.4
Benz(a)anthracene	17.758	228.0	294	106.21	ND ng/ml	14.9
IS-D12-Chrysene	17.758	240.0	73308	38509.42	ND ng/ml	19.2
Chrysene	17.812	228.0	220	83.09	ND ng/ml	23.4
Benzo(b)fluoranthene	20.117	252.0	102	47.36	ND ng/ml	
Benzo(k)fluoranthene	20.166	252.0	245	63.36	ND ng/ml	43.3
SS-D12-Benzo(e)pyrene	20.605	264.0	87040	41314.62	ND ng/ml	21.8
Benzo(e)pyrene	20.654	252.0	149	57.36	ND ng/ml	
Benzo(a)pyrene	20.751	252.0	145	47.36	ND ng/ml	
IS-D12-Perylene	20.876	264.0	69290	30927.00	ND ng/ml	21.9
Perylene	20.914	252.0	209	54.36	ND ng/ml	
Indeno(1,2,3-c,d)pytene	22.844	276.0	96	38.59	ND ng/ml	67.4
Dibenz(a,h)anthracene	22.906	278.0	371	64.51	ND ng/ml	23.3
Benzo(g,h,i)perylene	23.249	276.0	100	34.68	ND ng/ml	26.7
Coronene	25.883	300.0	267	43.38	ND ng/ml	13.0

IS-D8-Naphthalene

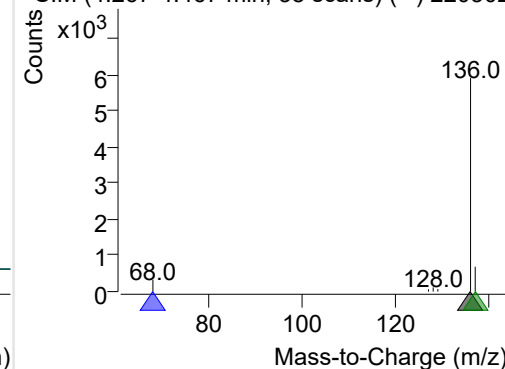
+ Selected Ion (136.0) 220302-PAHs-031.D



136.0, 68.0, 137.0

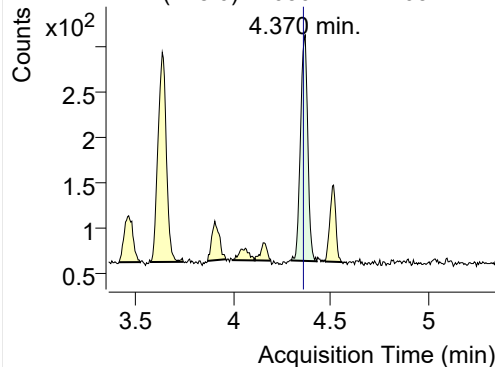


+ SIM (4.267-4.467 min, 38 scans) (**) 220302

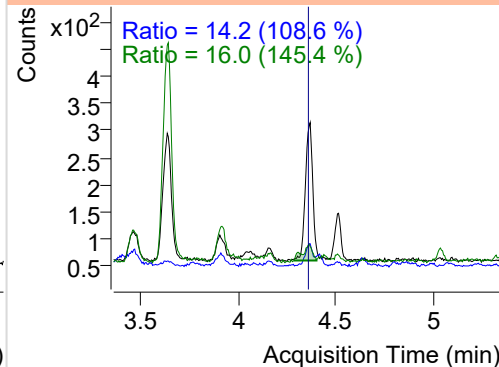


Naphthalene

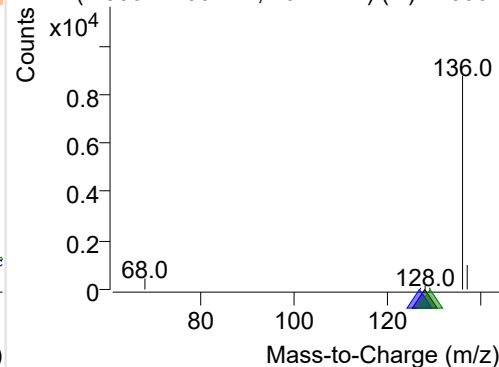
+ Selected Ion (128.0) 220302-PAHs-031.D



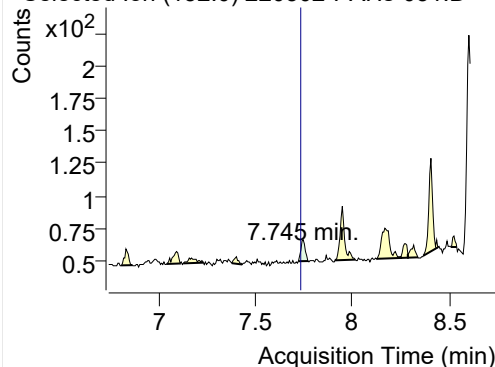
128.0, 127.0, 129.0



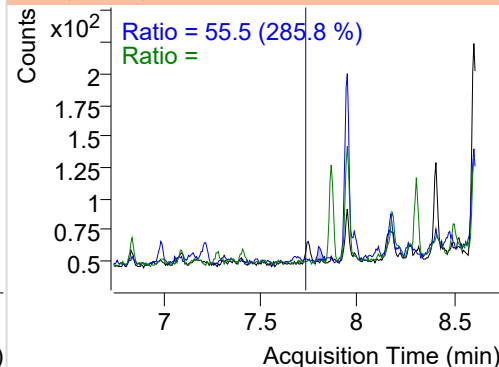
+ SIM (4.300-4.430 min, 25 scans) (**) 220302

**Acenaphthylene**

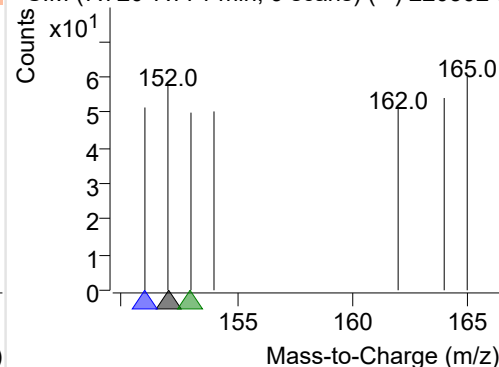
+ Selected Ion (152.0) 220302-PAHs-031.D



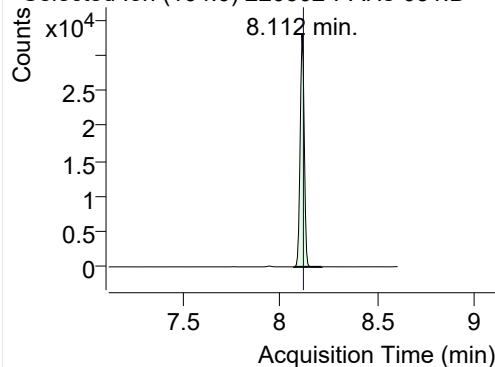
152.0, 151.0, 153.0



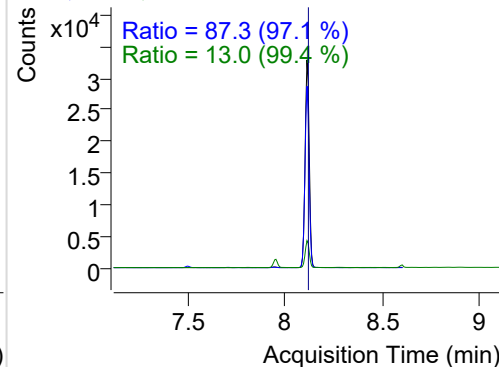
+ SIM (7.720-7.771 min, 9 scans) (**) 220302-I

**IS-D10-Acenaphthene**

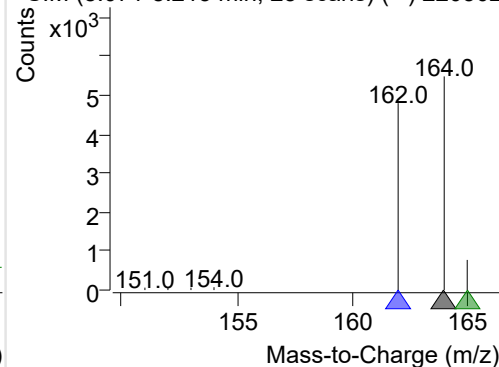
+ Selected Ion (164.0) 220302-PAHs-031.D



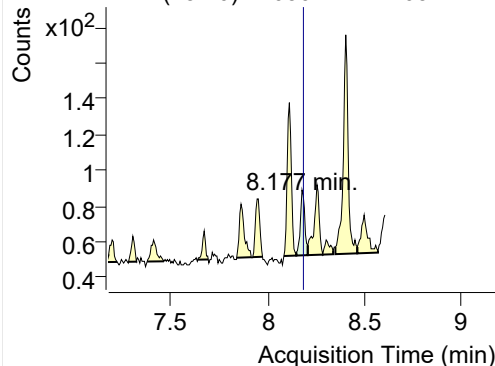
164.0, 162.0, 165.0



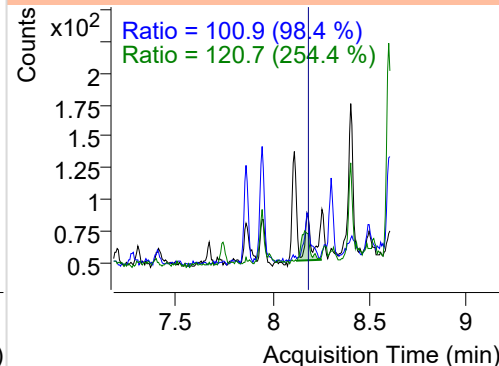
+ SIM (8.071-8.213 min, 25 scans) (**) 220302

**Acenaphthene**

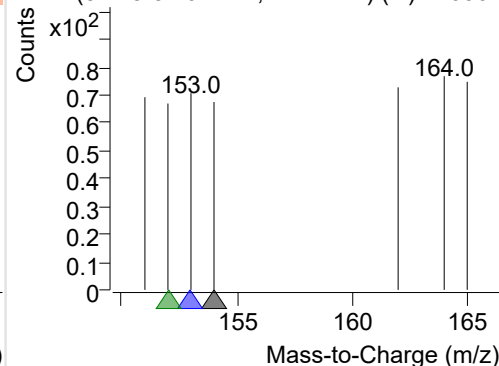
+ Selected Ion (154.0) 220302-PAHs-031.D



154.0, 153.0, 152.0

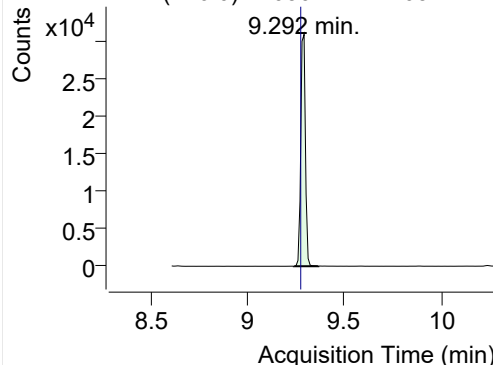


+ SIM (8.148-8.207 min, 11 scans) (**) 220302

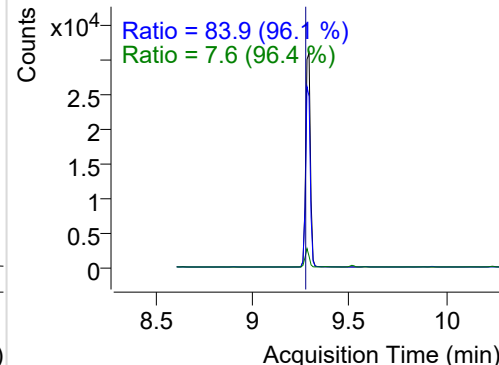


LSS-D10-Fluorene

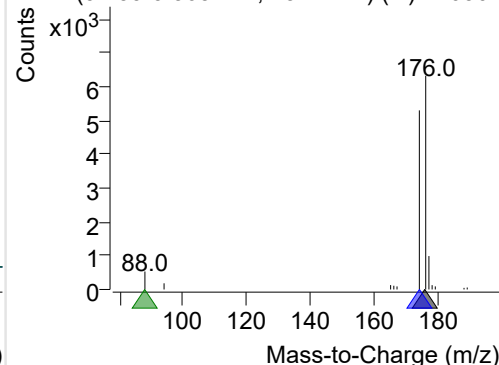
+ Selected Ion (176.0) 220302-PAHs-031.D



176.0, 174.0, 88.0

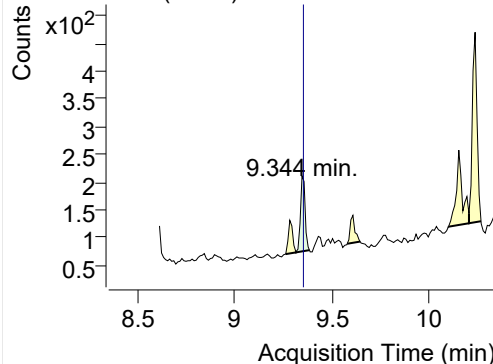


+ SIM (9.239-9.365 min, 13 scans) (**) 220302

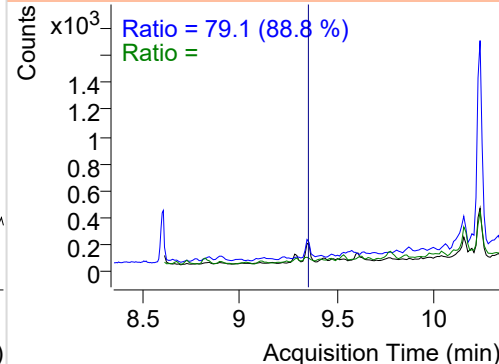


Fluorene

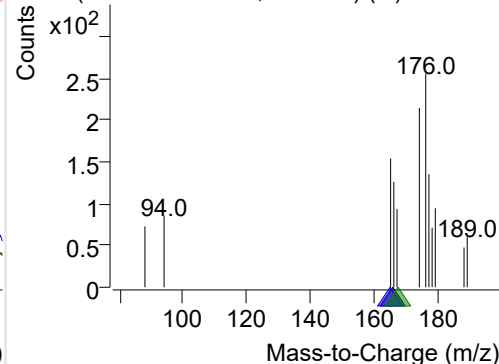
+ Selected Ion (166.0) 220302-PAHs-031.D



166.0, 165.0, 167.0

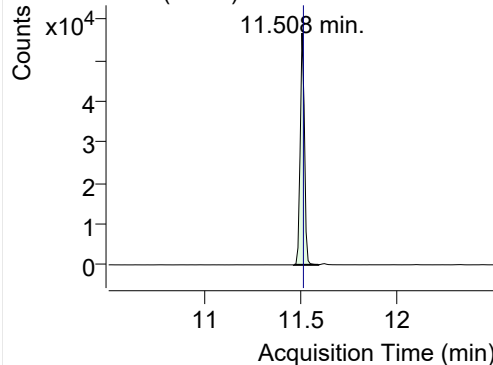


+ SIM (9.313-9.383 min, 7 scans) (**) 220302-I

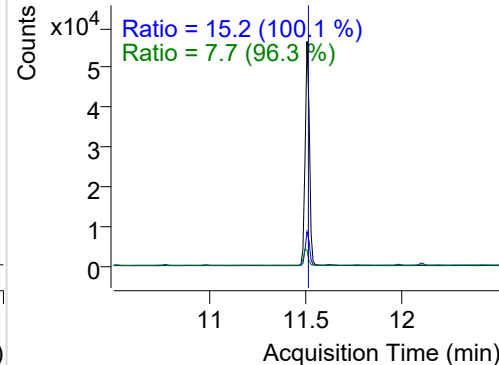


IS-D10-Phenanthrene

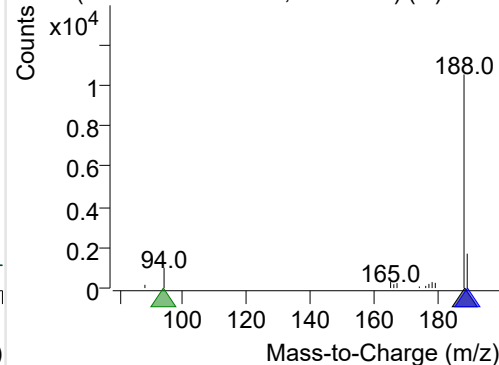
+ Selected Ion (188.0) 220302-PAHs-031.D



188.0, 189.0, 94.0

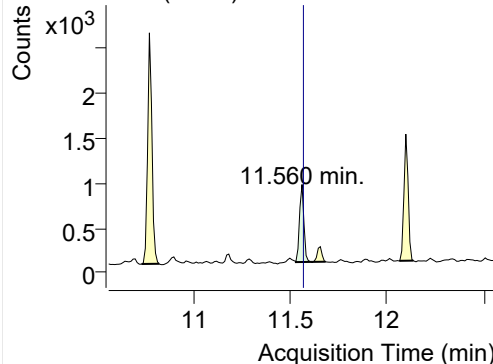


+ SIM (11.466-11.592 min, 13 scans) (**) 2203

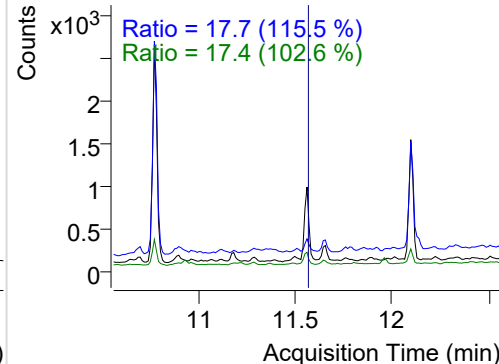


Phenanthrene

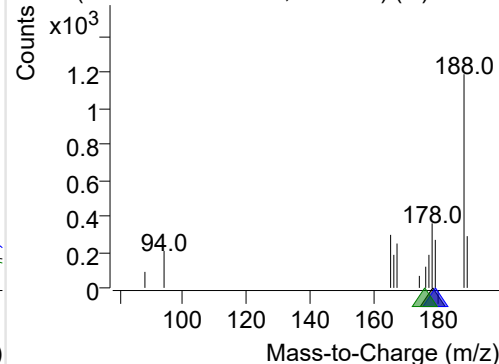
+ Selected Ion (178.0) 220302-PAHs-031.D



178.0, 179.0, 176.0

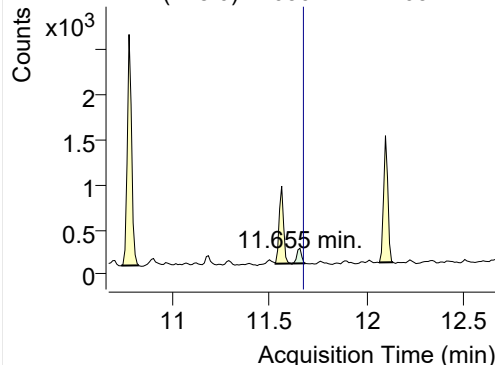


+ SIM (11.529-11.613 min, 9 scans) (**) 22030

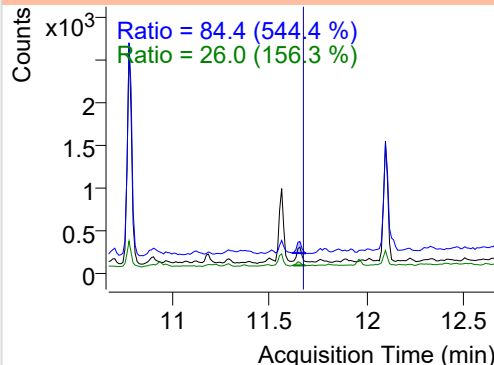


Anthracene

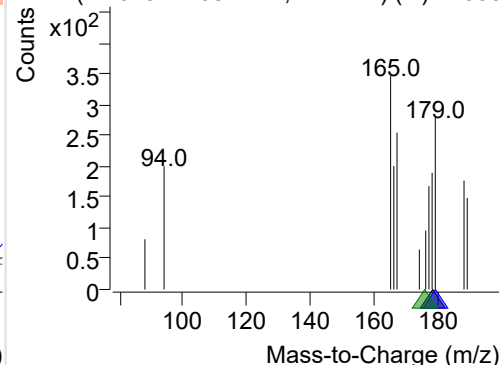
+ Selected Ion (178.0) 220302-PAHs-031.D



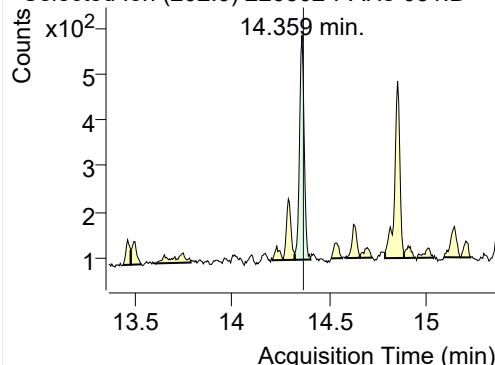
178.0, 179.0, 176.0



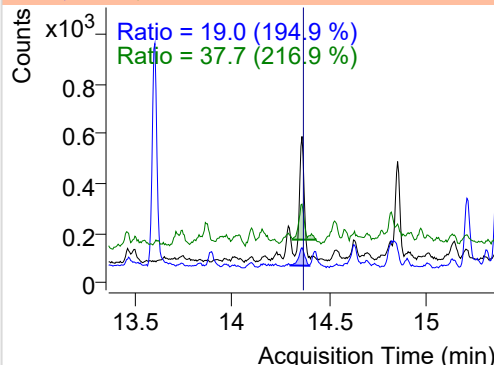
+ SIM (11.613-11.682 min, 7 scans) (**) 22030

**Fluoranthene**

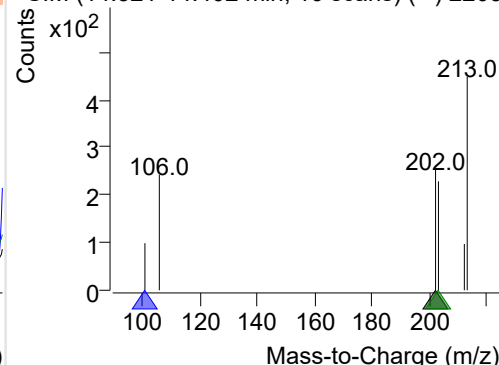
+ Selected Ion (202.0) 220302-PAHs-031.D



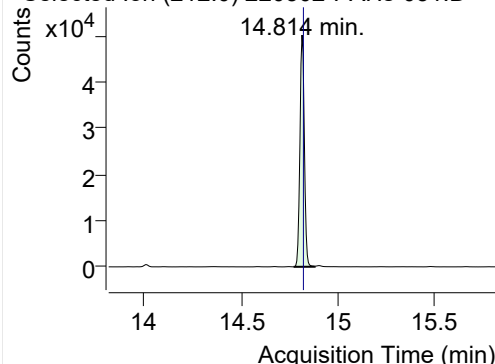
202.0, 101.0, 203.0



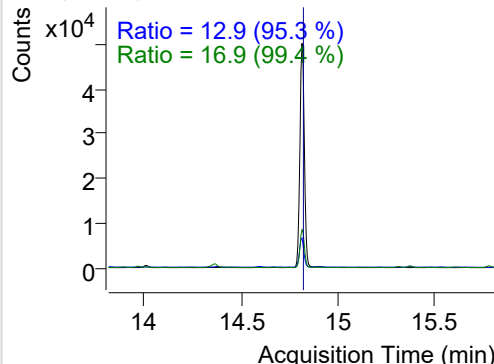
+ SIM (14.321-14.402 min, 16 scans) (**) 2203

**LSS-D10-Pyrene**

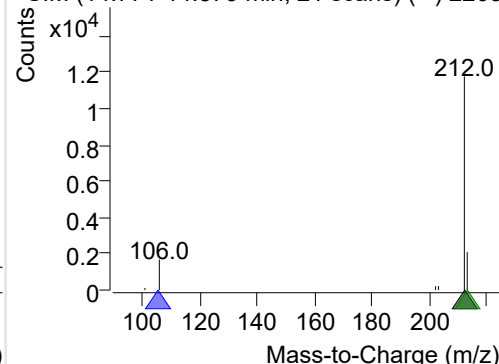
+ Selected Ion (212.0) 220302-PAHs-031.D



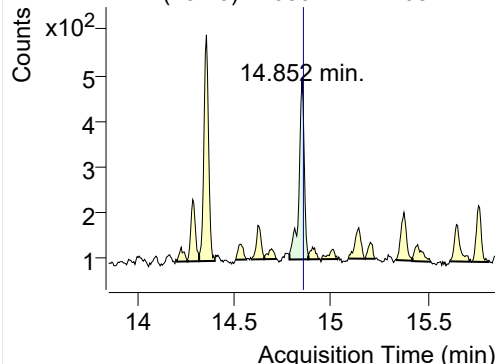
212.0, 106.0, 213.0



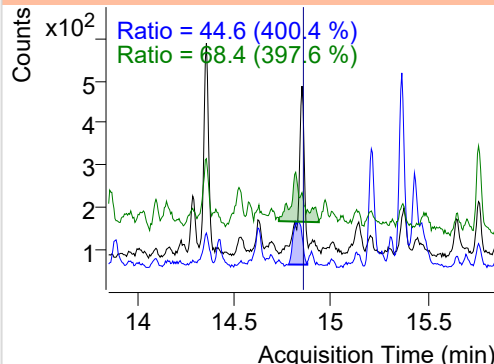
+ SIM (14.771-14.879 min, 21 scans) (**) 2203

**Pyrene**

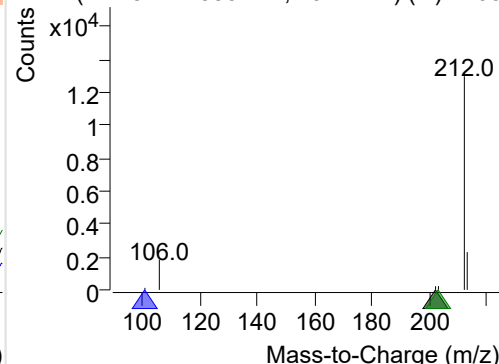
+ Selected Ion (202.0) 220302-PAHs-031.D



202.0, 101.0, 203.0



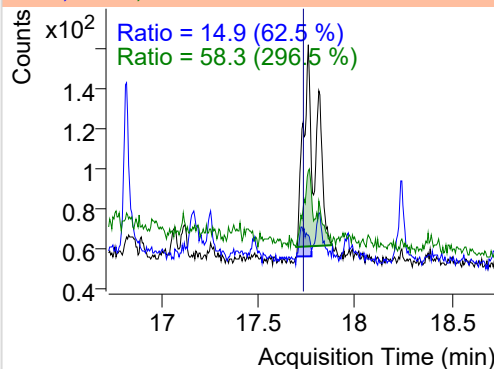
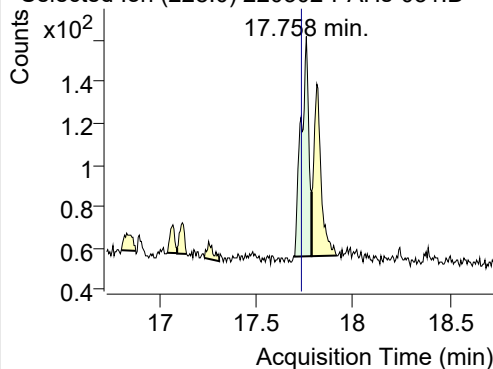
+ SIM (14.787-14.885 min, 19 scans) (**) 2203



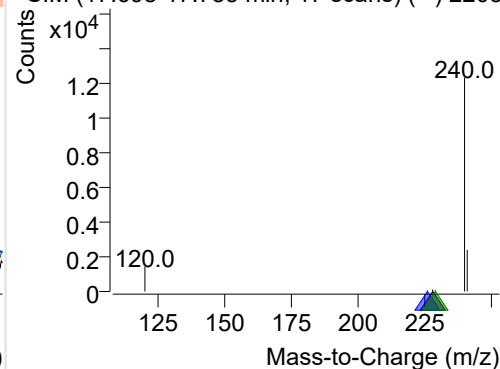
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-031.D

228.0, 226.0, 229.0

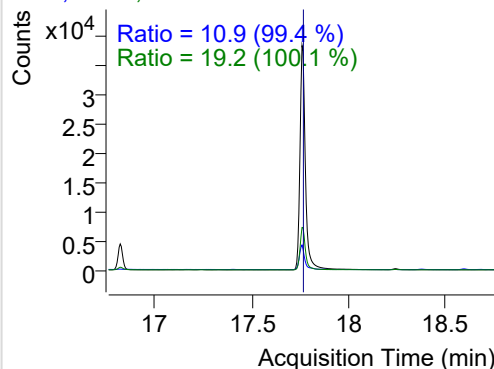
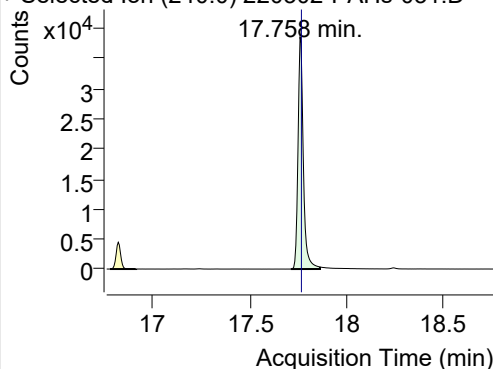


+ SIM (17.698-17.785 min, 17 scans) (**) 2203

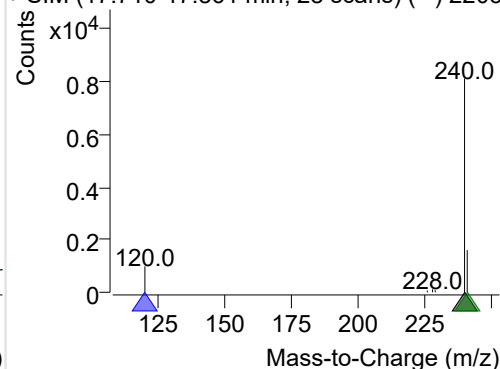
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-031.D

240.0, 120.0, 241.0

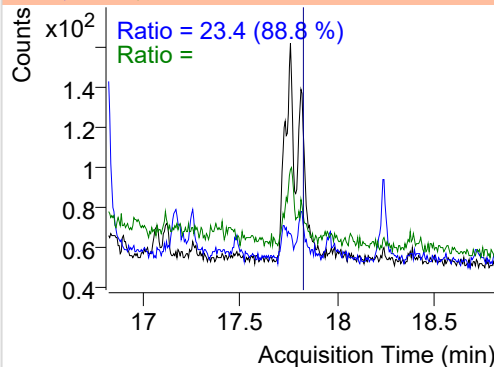
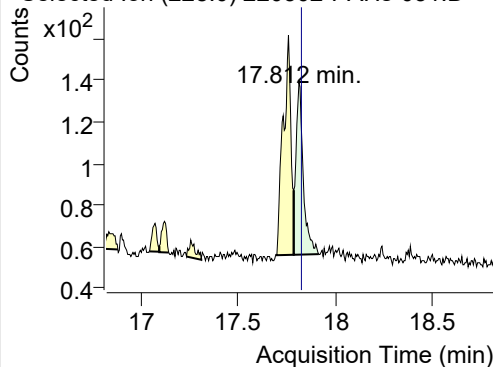


+ SIM (17.710-17.861 min, 28 scans) (**) 2203

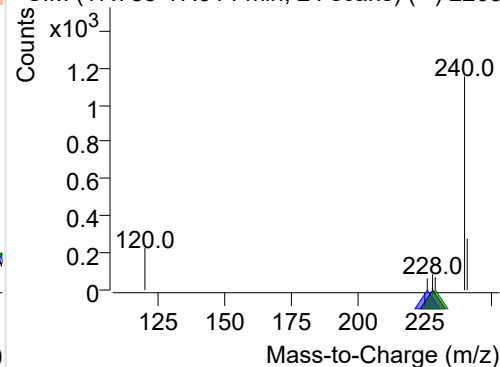
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-031.D

228.0, 226.0, 229.0

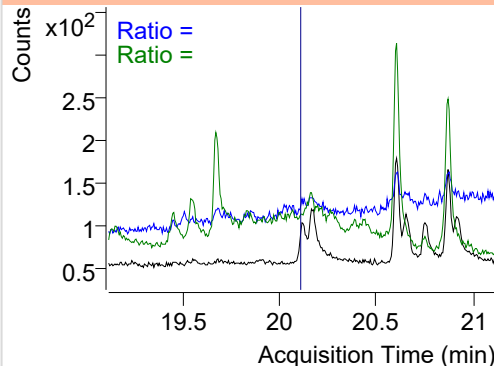
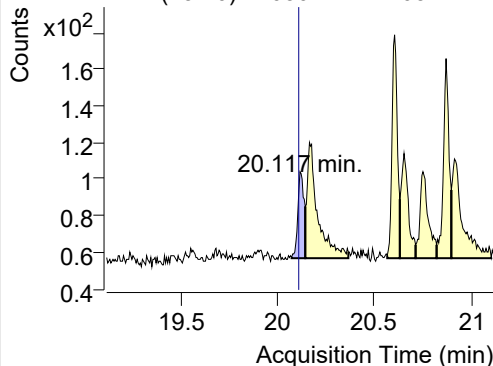


+ SIM (17.785-17.914 min, 24 scans) (**) 2203

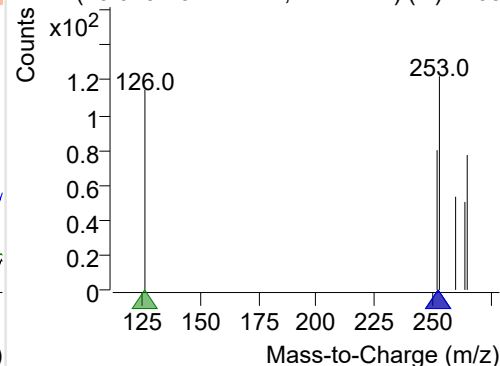
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-031.D

252.0, 253.0, 126.0



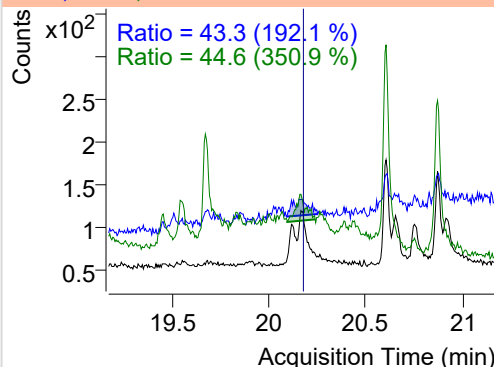
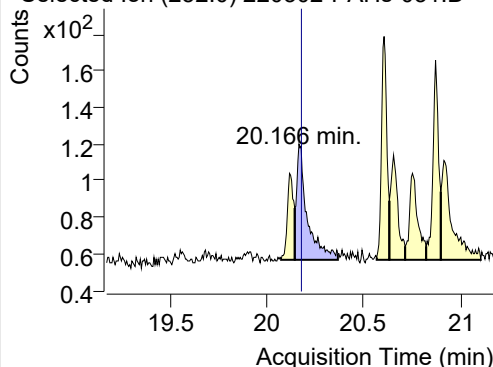
+ SIM (20.073-20.144 min, 14 scans) (**) 2203



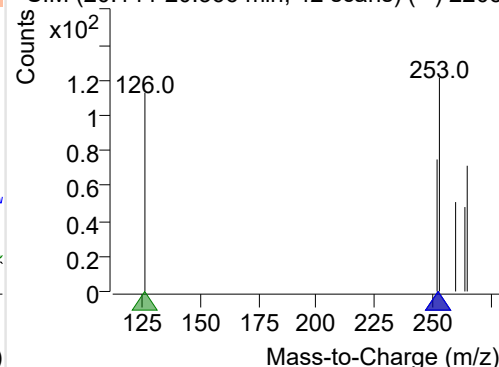
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-031.D

252.0, 253.0, 126.0

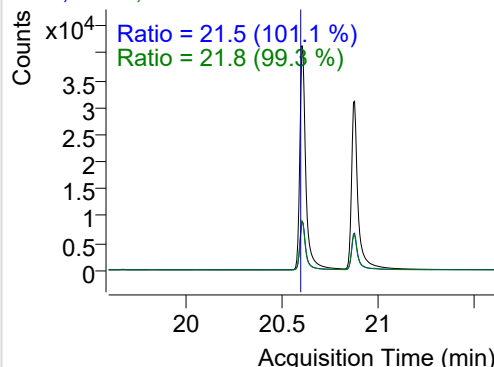
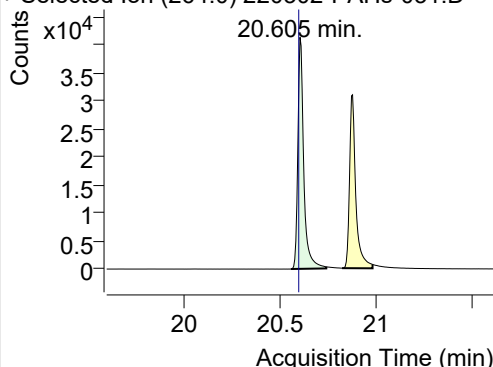


+ SIM (20.144-20.366 min, 42 scans) (**) 2203

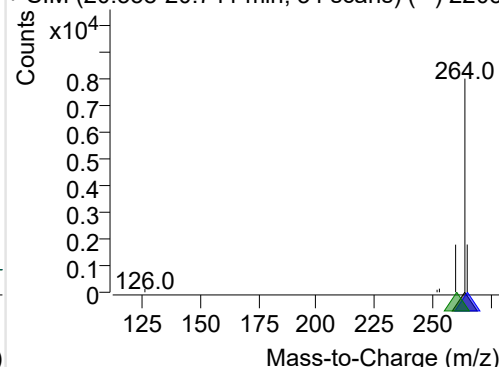
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-031.D

264.0, 265.0, 260.0

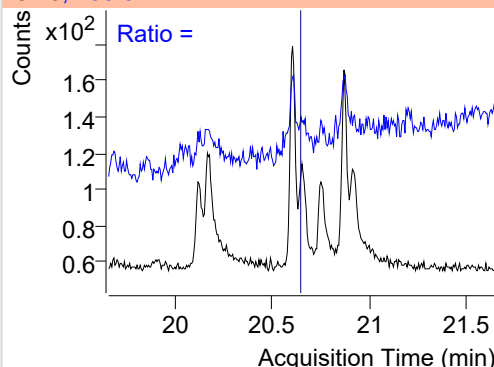
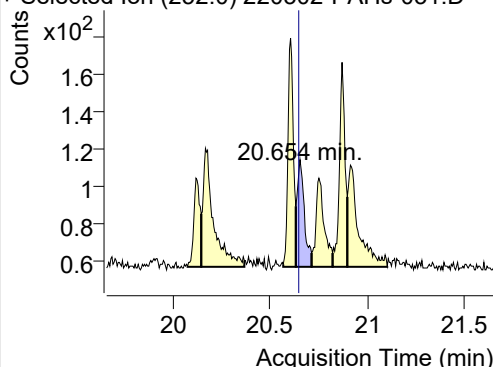


+ SIM (20.558-20.741 min, 34 scans) (**) 2203

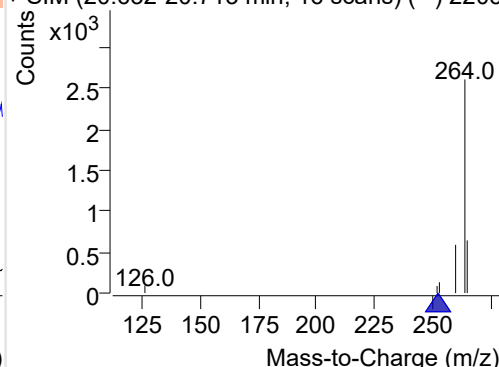
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-031.D

252.0, 253.0

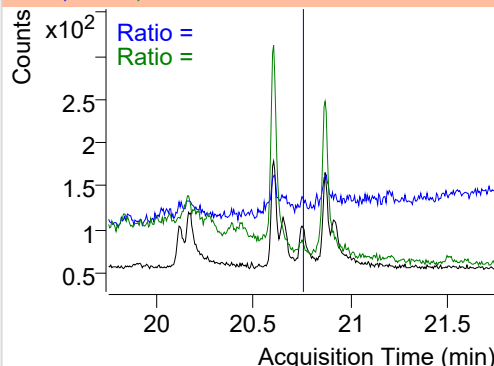
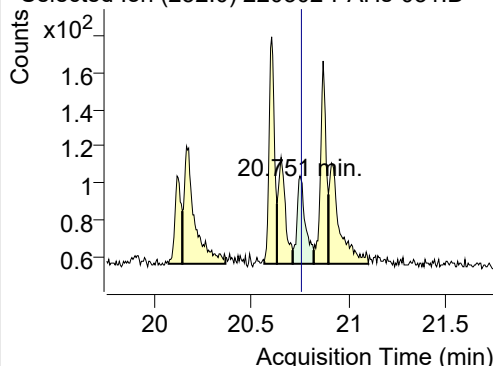


+ SIM (20.632-20.713 min, 16 scans) (**) 2203

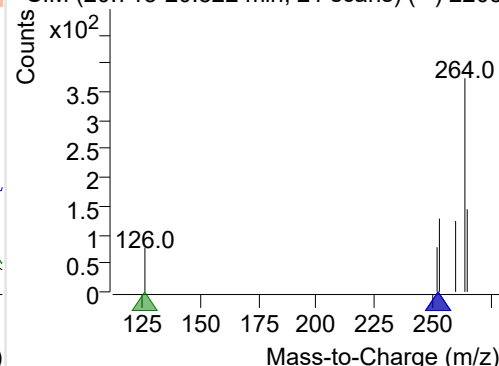
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-031.D

252.0, 253.0, 126.0

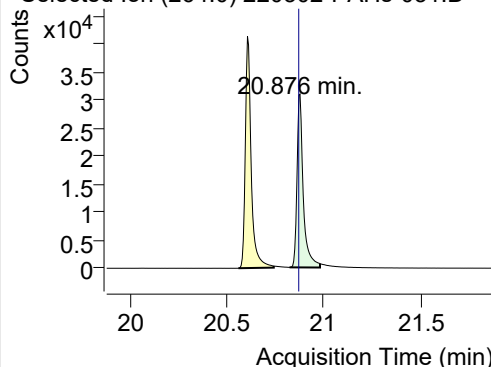


+ SIM (20.713-20.822 min, 21 scans) (**) 2203

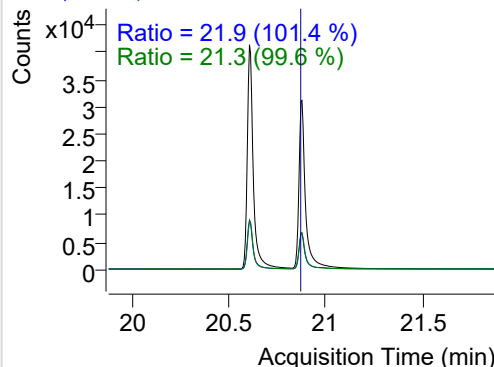


IS-D12-Perylene

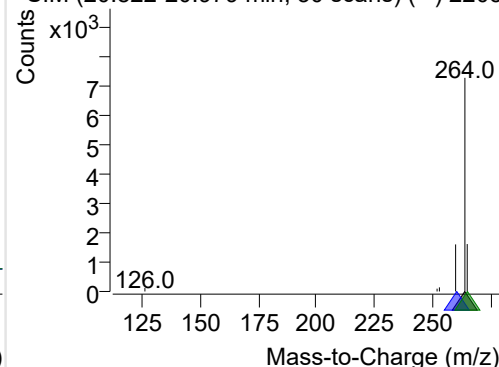
+ Selected Ion (264.0) 220302-PAHs-031.D



264.0, 260.0, 265.0

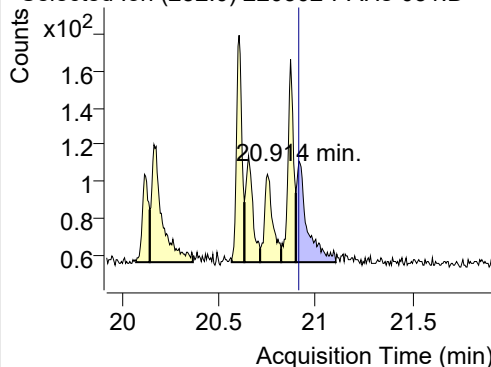


+ SIM (20.822-20.979 min, 30 scans) (**) 2203

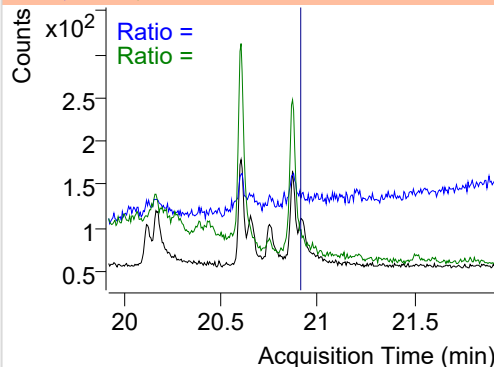


Perylene

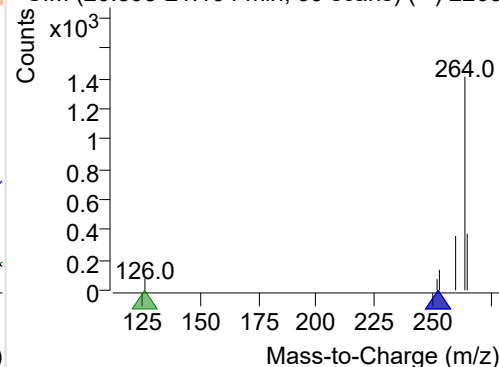
+ Selected Ion (252.0) 220302-PAHs-031.D



252.0, 253.0, 126.0

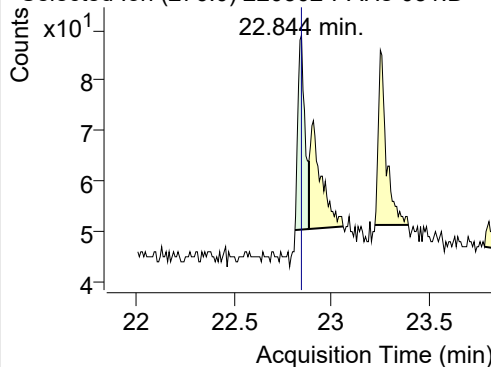


+ SIM (20.898-21.104 min, 39 scans) (**) 2203

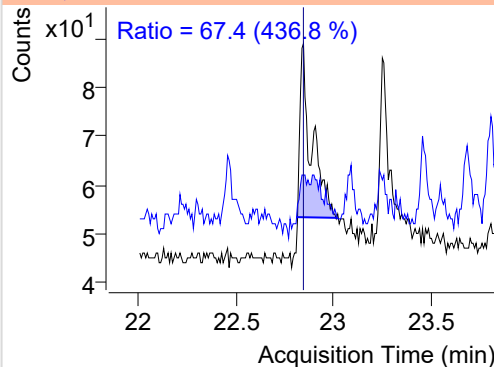


Indeno(1,2,3-c,d)pyrene

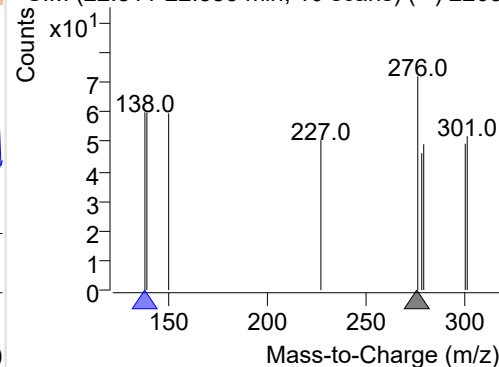
+ Selected Ion (276.0) 220302-PAHs-031.D



276.0, 138.0

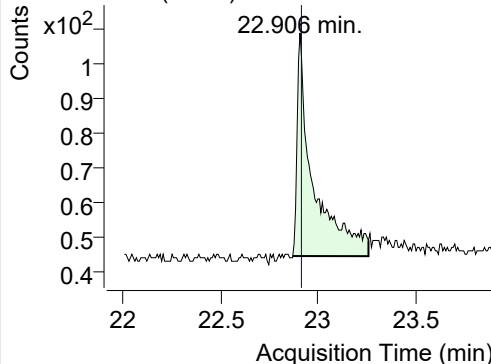


+ SIM (22.811-22.883 min, 10 scans) (**) 2203

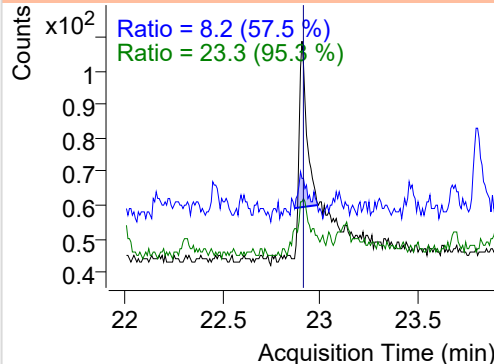


Dibenz(a,h)anthracene

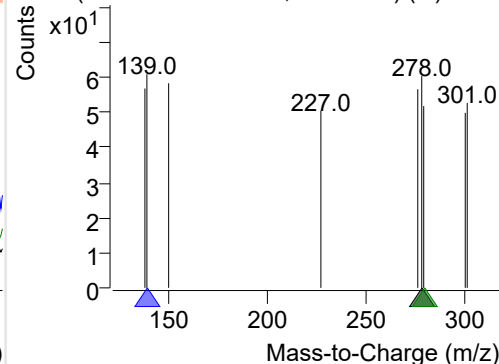
+ Selected Ion (278.0) 220302-PAHs-031.D



278.0, 139.0, 279.0



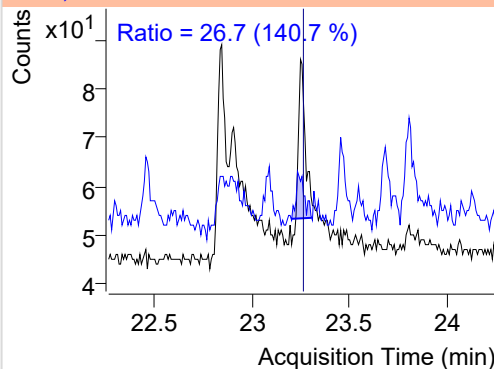
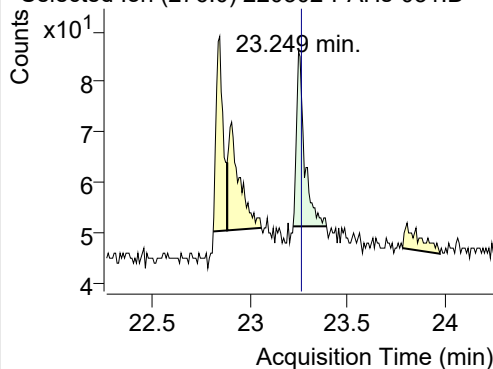
+ SIM (22.868-23.257 min, 51 scans) (**) 2203



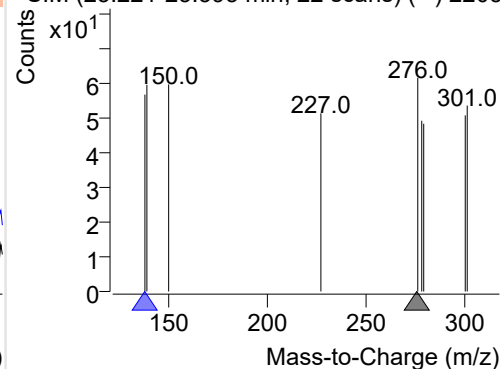
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-031.D

276.0, 138.0

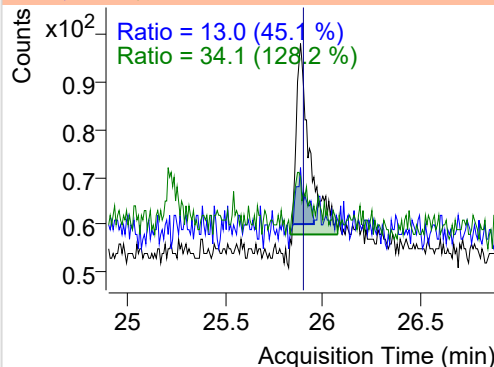
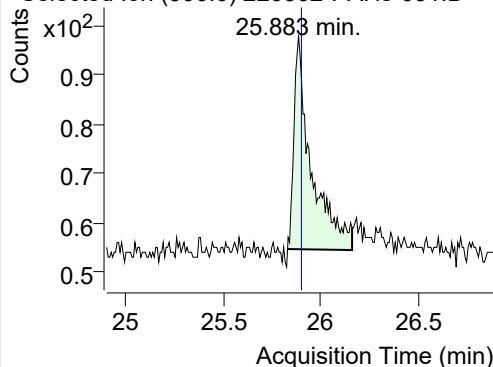


+ SIM (23.221-23.393 min, 22 scans) (**) 2203

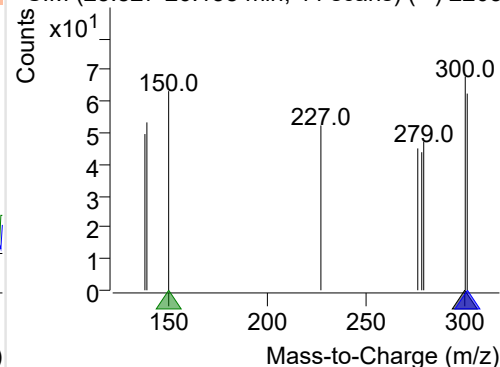
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-031.D

300.0, 301.0, 150.0



+ SIM (25.827-26.158 min, 44 scans) (**) 2203



Quantitative Analysis Sample Based Report

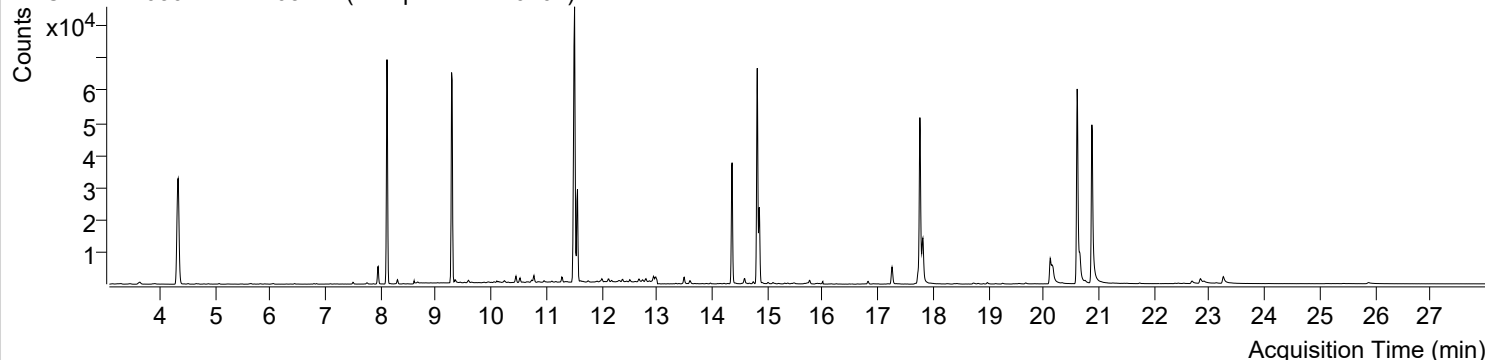


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 1:53:51	Data File	220302-PAHs-032.D
Type	Sample	Name	Sample-PM-220204
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

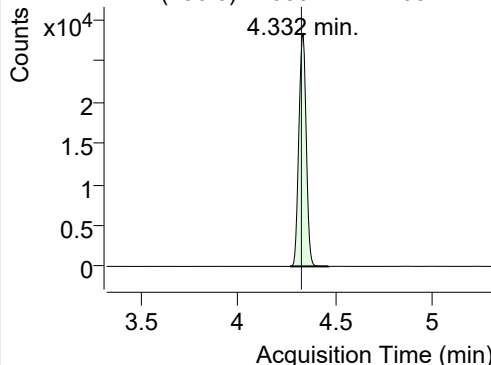
+ TIC SIM 220302-PAHs-032.D (Sample-PM-220204)



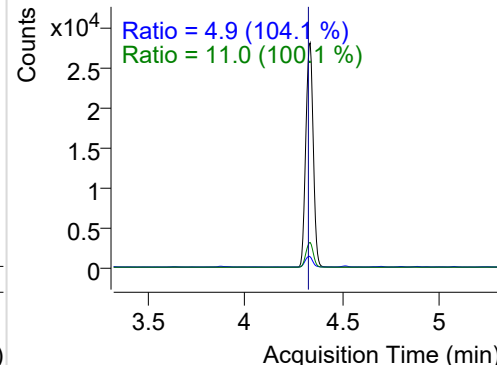
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.332	136.0	74463	28143.69	ND ng/ml	11.0
Naphthalene	4.365	128.0	461	155.96	ND ng/ml	67.7
Acenaphthylene	7.745	152.0	381	226.84	ND ng/ml	26.3
IS-D10-Acenaphthene	8.112	164.0	49490	33856.43	ND ng/ml	90.4
Acenaphthene	8.183	154.0	56	28.32	ND ng/ml	
LSS-D10-Fluorene	9.292	176.0	50440	30342.04	ND ng/ml	87.4
Fluorene	9.344	166.0	684	401.28	ND ng/ml	97.2
IS-D10-Phenanthrene	11.508	188.0	93216	63367.20	ND ng/ml	15.1
Phenanthrene	11.560	178.0	30921	19366.81	ND ng/ml	17.0
Anthracene	11.655	178.0	253	130.17	ND ng/ml	
Fluoranthene	14.359	202.0	46163	29286.61	ND ng/ml	17.5
LSS-D10-Pyrene	14.814	212.0	79035	50923.11	ND ng/ml	17.0
Pyrene	14.852	202.0	29074	17858.02	ND ng/ml	20.5
Benz(a)anthracene	17.725	228.0	4947	2374.10	ND ng/ml	24.2
IS-D12-Chrysene	17.758	240.0	72964	39076.79	ND ng/ml	19.0
Chrysene	17.812	228.0	20126	8674.14	ND ng/ml	26.5
Benzo(b)fluoranthene	20.117	252.0	11079	5693.23	ND ng/ml	53.9
Benzo(k)fluoranthene	20.149	252.0	13354	4281.80	ND ng/ml	44.7
SS-D12-Benzo(e)pyrene	20.605	264.0	85315	41581.56	ND ng/ml	21.9
Benzo(e)pyrene	20.654	252.0	9015	4086.07	ND ng/ml	21.9
Benzo(a)pyrene	20.752	252.0	877	356.92	ND ng/ml	19.6
IS-D12-Perylene	20.871	264.0	74538	33925.68	ND ng/ml	21.0
Perylene	20.914	252.0	331	178.72	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	22.837	276.0	5208	1195.74	ND ng/ml	16.1
Dibenz(a,h)anthracene	22.906	278.0	651	203.38	ND ng/ml	23.7
Benzo(g,h,i)perylene	23.249	276.0	5834	1655.21	ND ng/ml	17.5
Coronene	25.883	300.0	1368	221.65	ND ng/ml	28.3

IS-D8-Naphthalene

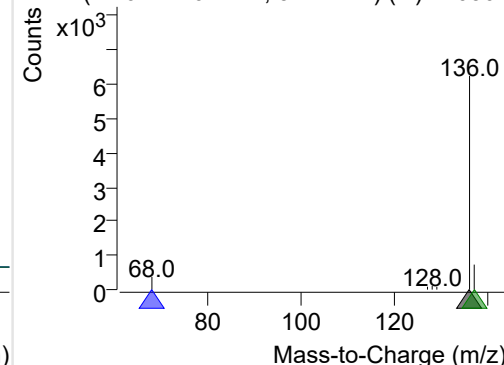
+ Selected Ion (136.0) 220302-PAHs-032.D



136.0, 68.0, 137.0

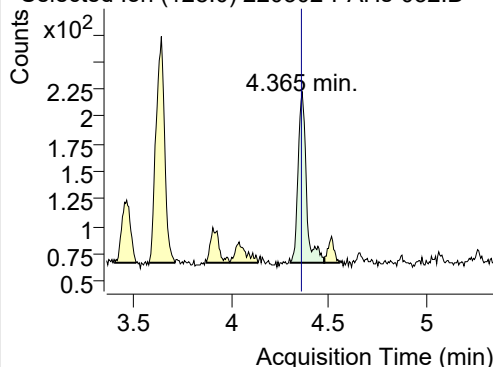


+ SIM (4.264-4.462 min, 37 scans) (**) 220302

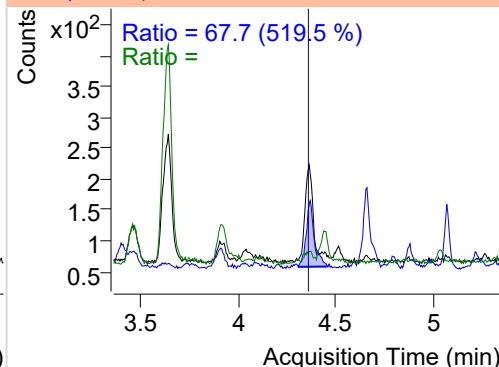


Naphthalene

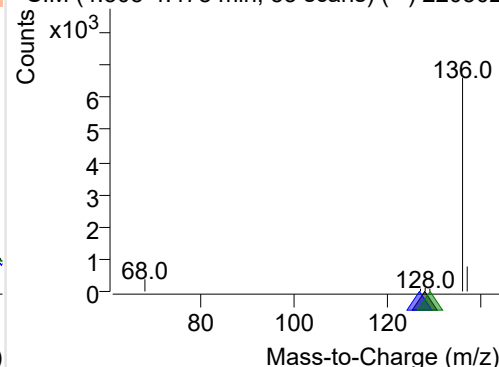
+ Selected Ion (128.0) 220302-PAHs-032.D



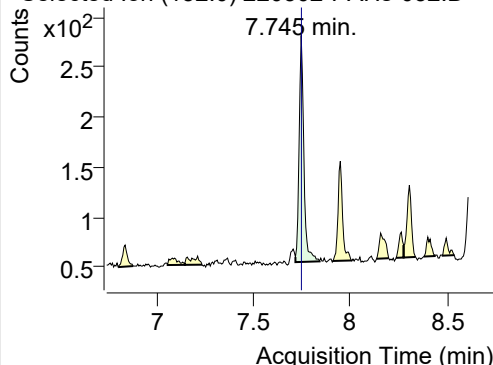
128.0, 127.0, 129.0



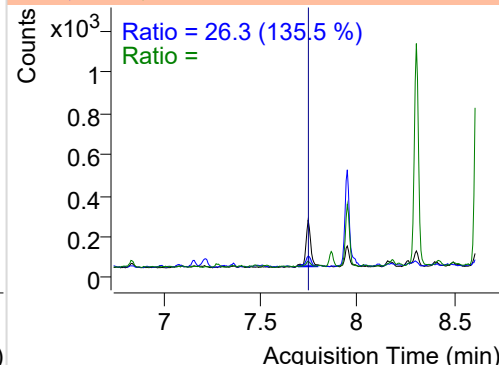
+ SIM (4.305-4.478 min, 33 scans) (**) 220302

**Acenaphthylene**

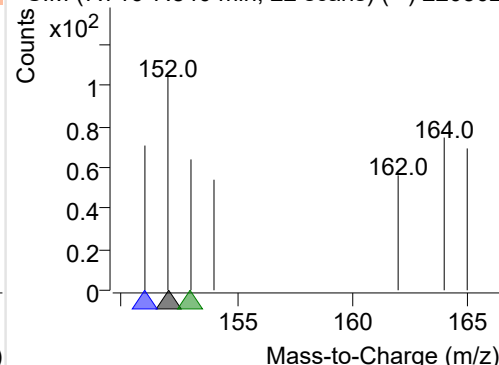
+ Selected Ion (152.0) 220302-PAHs-032.D



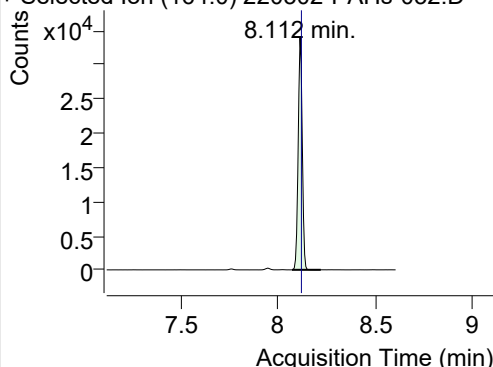
152.0, 151.0, 153.0



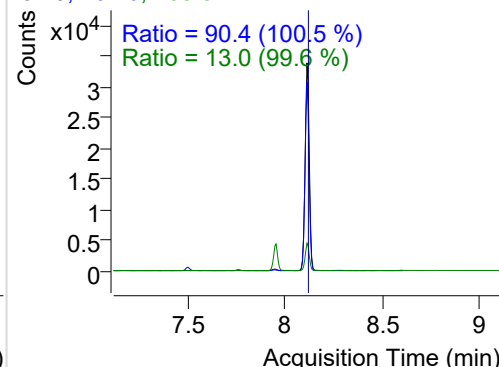
+ SIM (7.716-7.840 min, 22 scans) (**) 220302

**IS-D10-Acenaphthene**

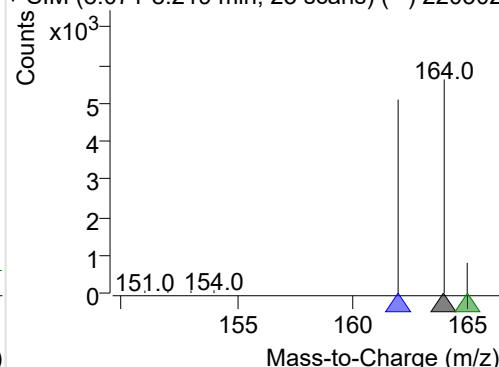
+ Selected Ion (164.0) 220302-PAHs-032.D



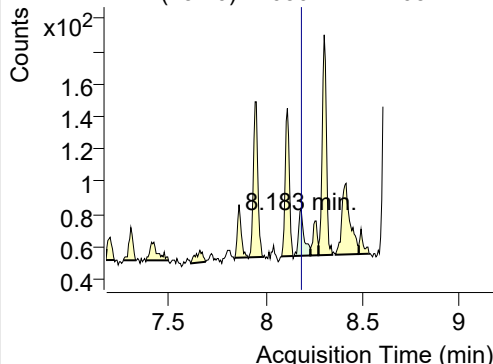
164.0, 162.0, 165.0



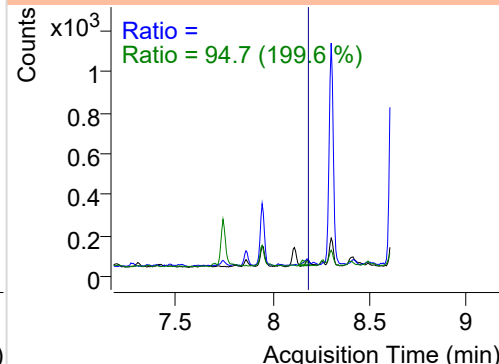
+ SIM (8.071-8.219 min, 25 scans) (**) 220302

**Acenaphthene**

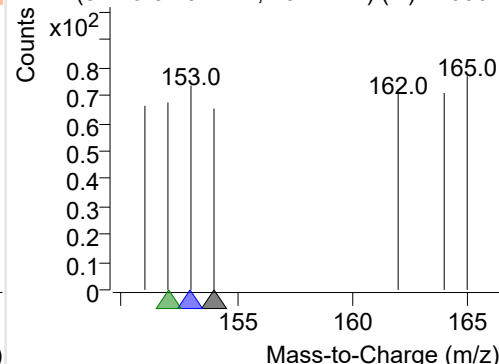
+ Selected Ion (154.0) 220302-PAHs-032.D



154.0, 153.0, 152.0

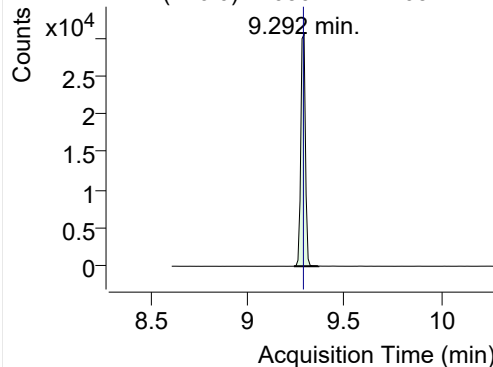


+ SIM (8.146-8.231 min, 15 scans) (**) 220302

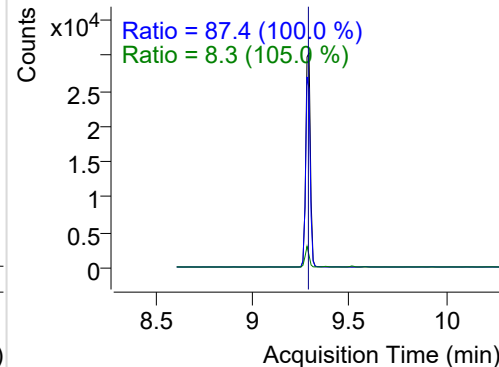


LSS-D10-Fluorene

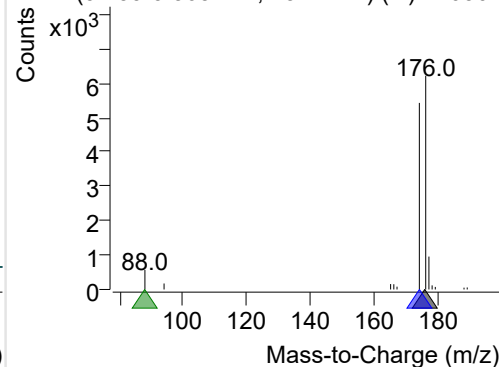
+ Selected Ion (176.0) 220302-PAHs-032.D



176.0, 174.0, 88.0

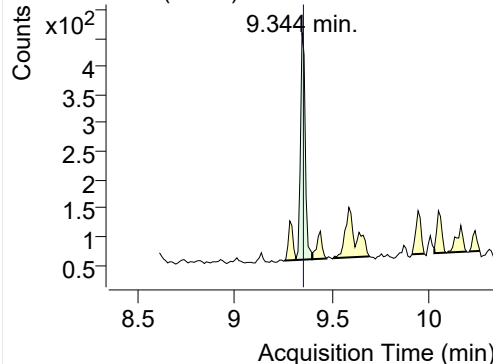


+ SIM (9.239-9.365 min, 13 scans) (**) 220302

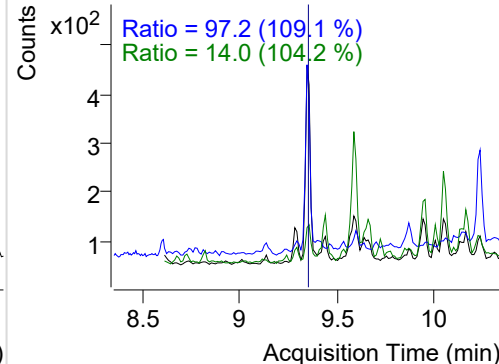


Fluorene

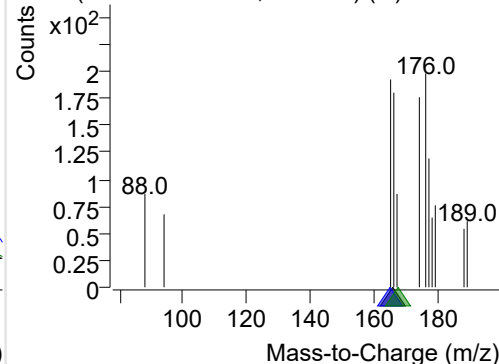
+ Selected Ion (166.0) 220302-PAHs-032.D



166.0, 165.0, 167.0

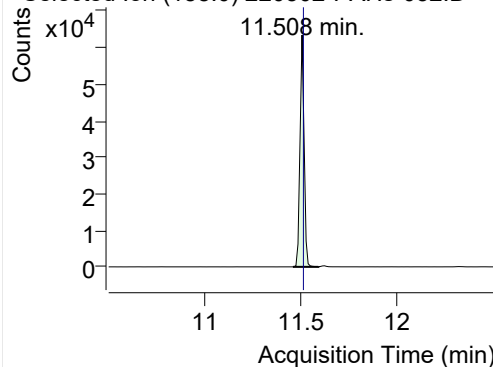


+ SIM (9.313-9.397 min, 9 scans) (**) 220302-I

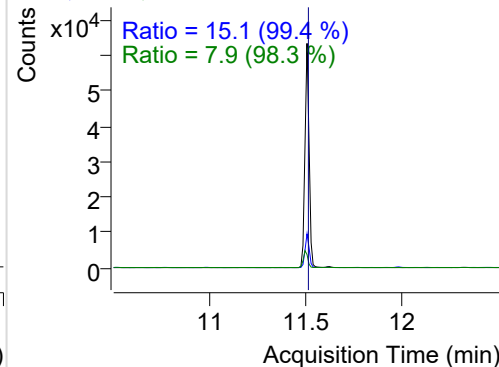


IS-D10-Phenanthrene

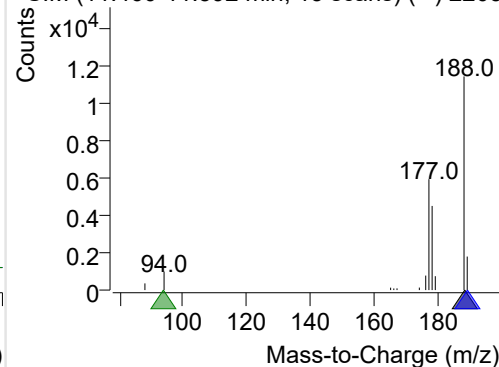
+ Selected Ion (188.0) 220302-PAHs-032.D



188.0, 189.0, 94.0

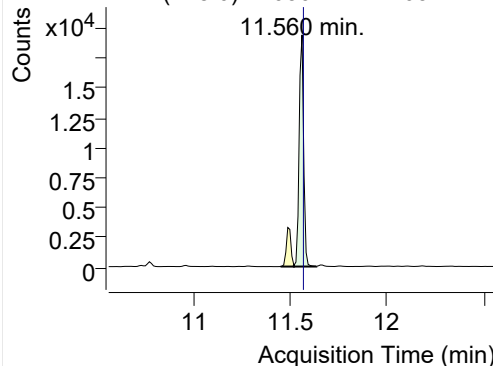


+ SIM (11.460-11.592 min, 13 scans) (**) 2203

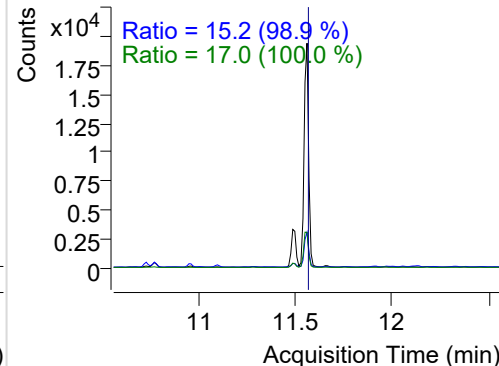


Phenanthrene

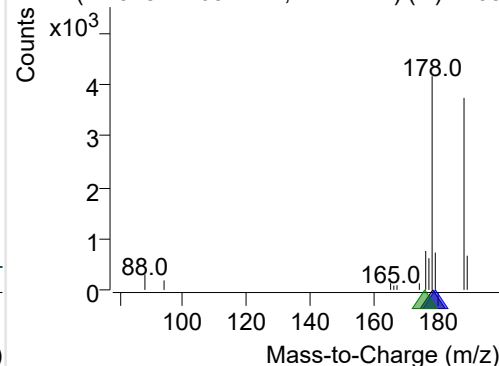
+ Selected Ion (178.0) 220302-PAHs-032.D



178.0, 179.0, 176.0

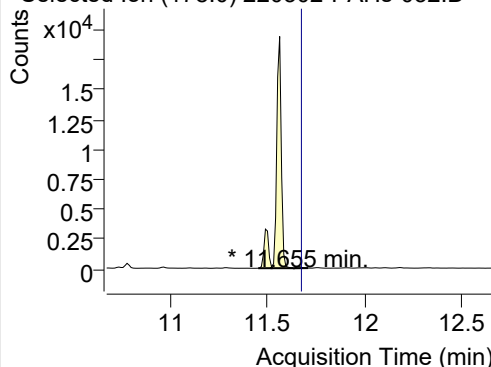


+ SIM (11.518-11.634 min, 12 scans) (**) 2203

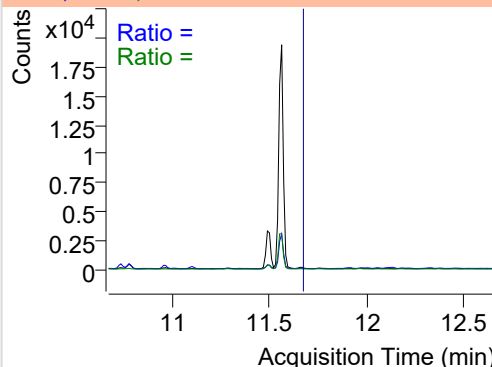


Anthracene

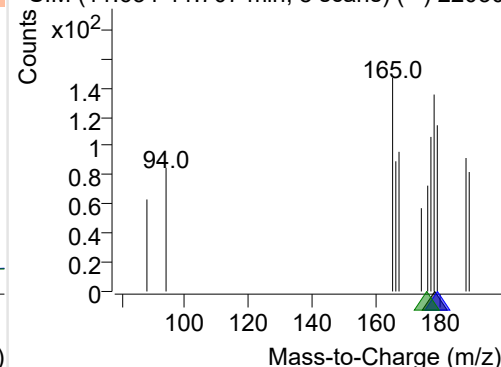
+ Selected Ion (178.0) 220302-PAHs-032.D



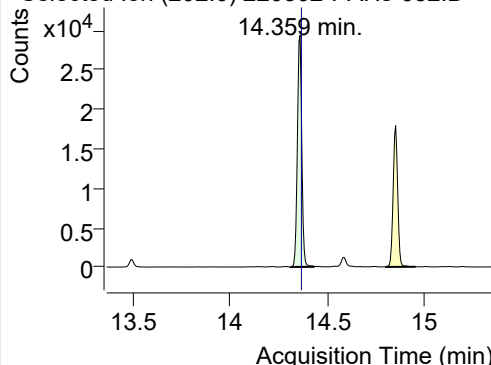
178.0, 179.0, 176.0



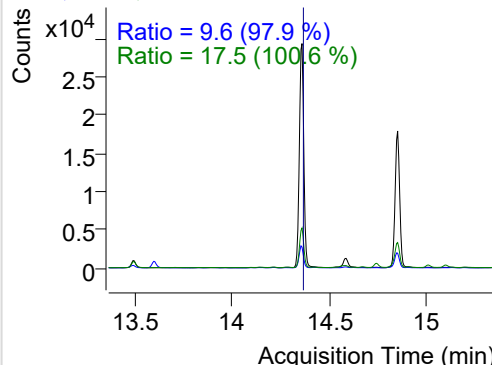
+ SIM (11.634-11.707 min, 8 scans) (**) 22030

**Fluoranthene**

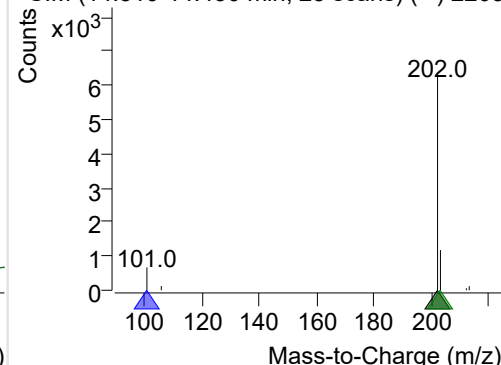
+ Selected Ion (202.0) 220302-PAHs-032.D



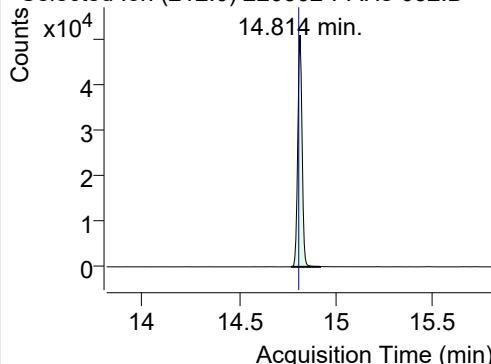
202.0, 101.0, 203.0



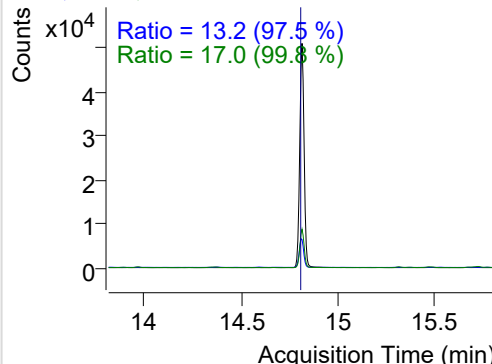
+ SIM (14.310-14.430 min, 23 scans) (**) 2203

**LSS-D10-Pyrene**

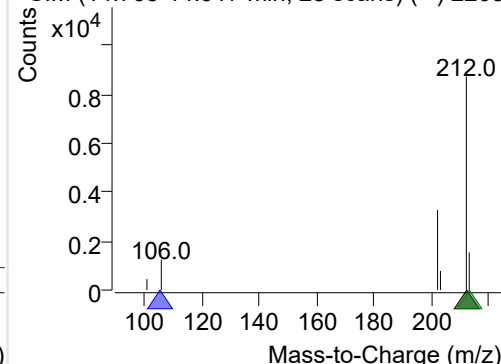
+ Selected Ion (212.0) 220302-PAHs-032.D



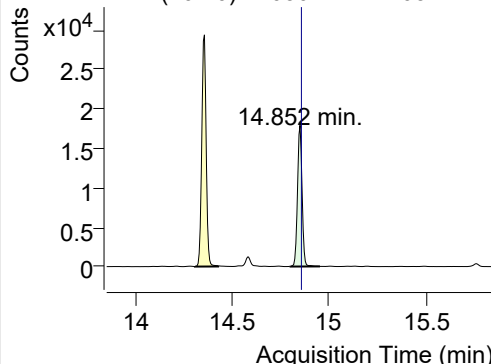
212.0, 106.0, 213.0



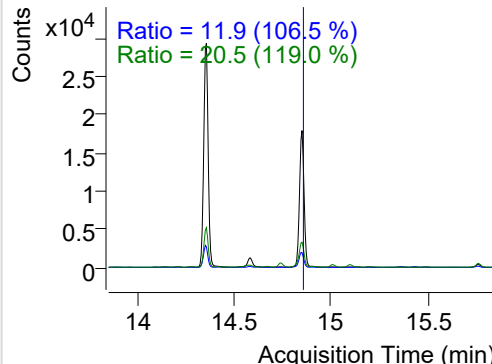
+ SIM (14.768-14.917 min, 28 scans) (**) 2203

**Pyrene**

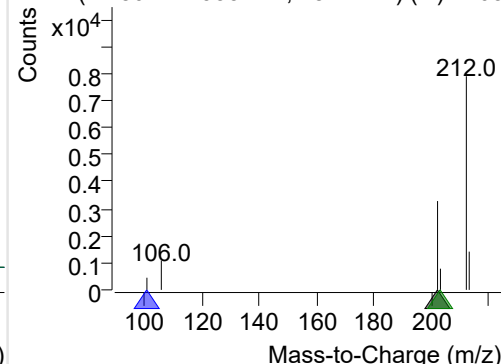
+ Selected Ion (202.0) 220302-PAHs-032.D



202.0, 101.0, 203.0

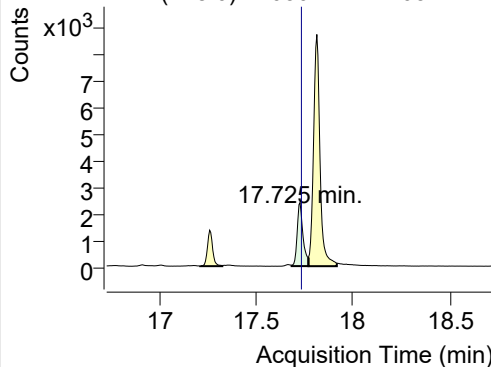


+ SIM (14.804-14.955 min, 28 scans) (**) 2203

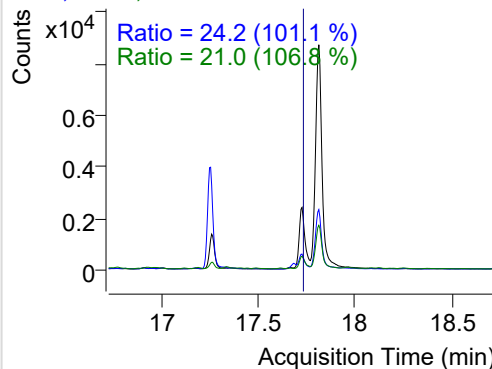


Benz(a)anthracene

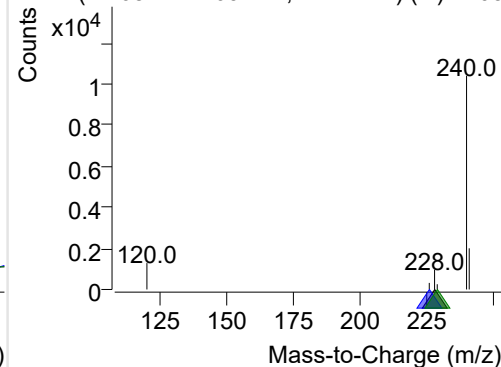
+ Selected Ion (228.0) 220302-PAHs-032.D



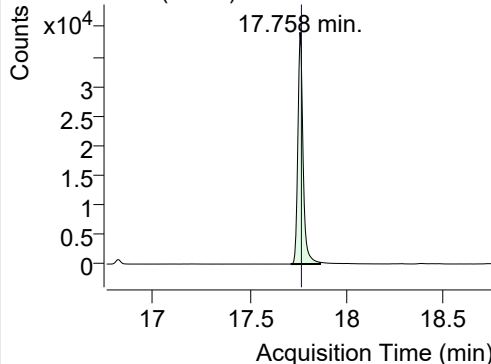
228.0, 226.0, 229.0



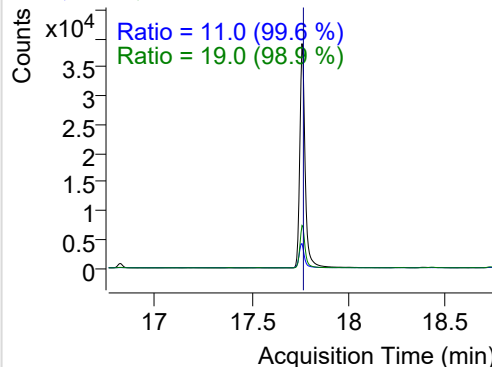
+ SIM (17.682-17.769 min, 17 scans) (**) 2203

**IS-D12-Chrysene**

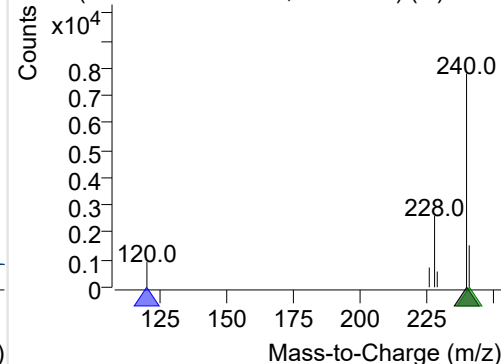
+ Selected Ion (240.0) 220302-PAHs-032.D



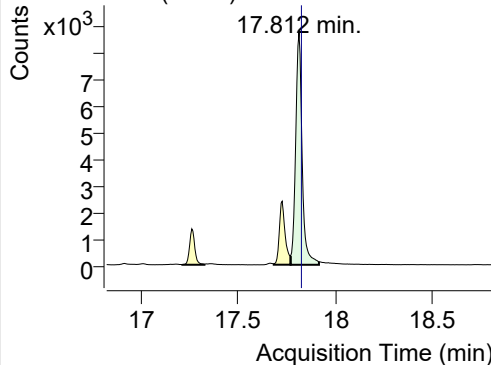
240.0, 120.0, 241.0



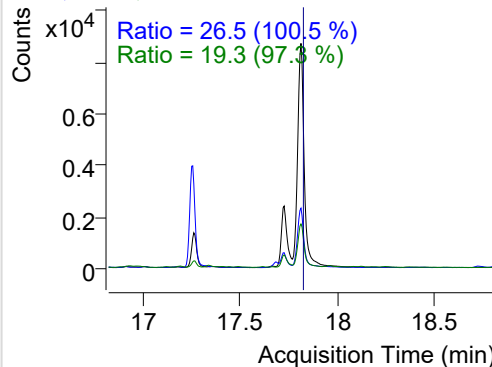
+ SIM (17.709-17.861 min, 29 scans) (**) 2203

**Chrysene**

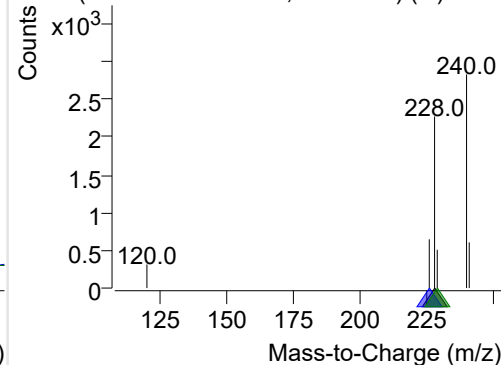
+ Selected Ion (228.0) 220302-PAHs-032.D



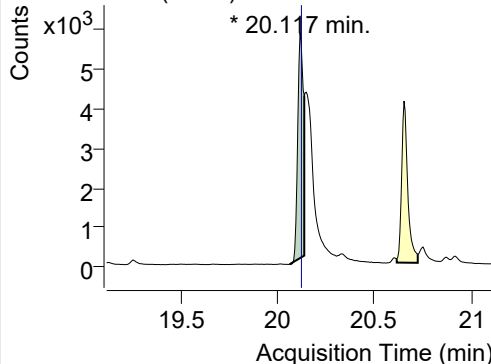
228.0, 226.0, 229.0



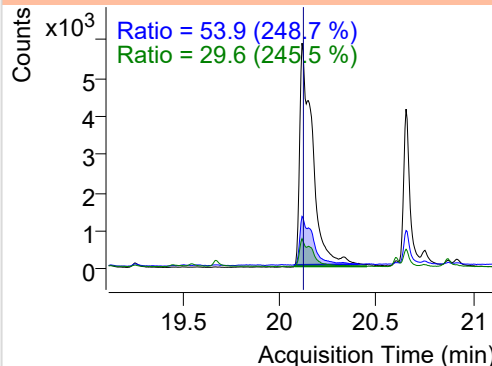
+ SIM (17.769-17.915 min, 28 scans) (**) 2203

**Benzo(b)fluoranthene**

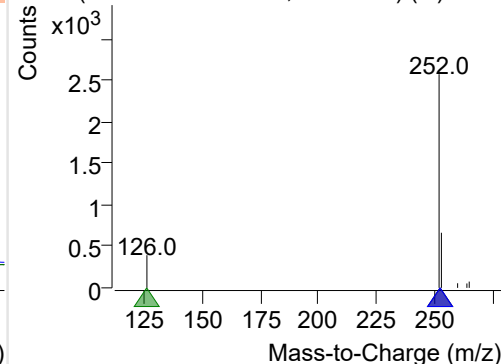
+ Selected Ion (252.0) 220302-PAHs-032.D



252.0, 253.0, 126.0



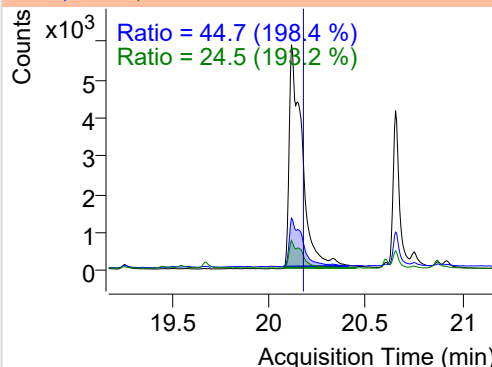
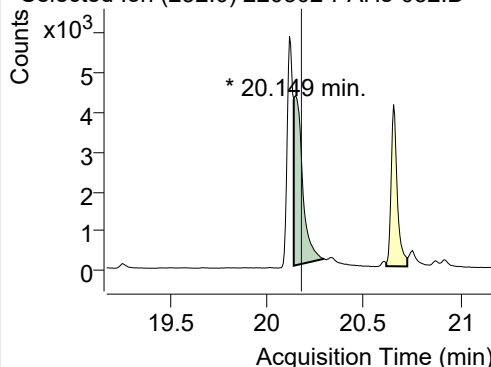
+ SIM (20.063-20.139 min, 15 scans) (**) 2203



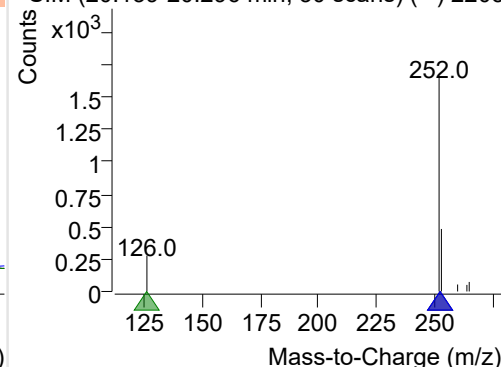
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-032.D

252.0, 253.0, 126.0

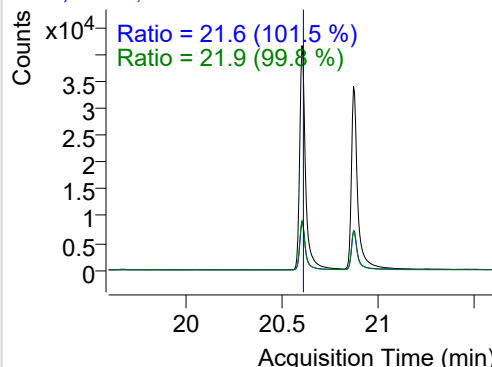
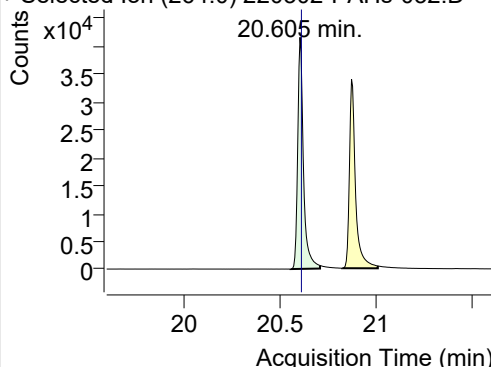


+ SIM (20.139-20.296 min, 30 scans) (**) 2203

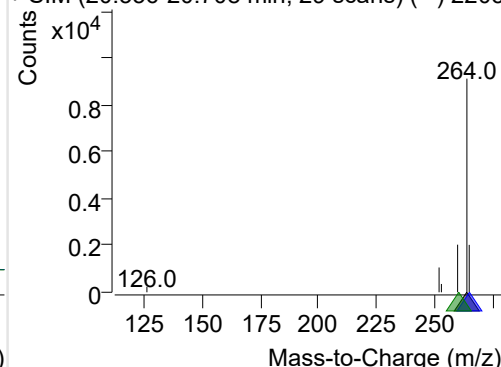
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-032.D

264.0, 265.0, 260.0

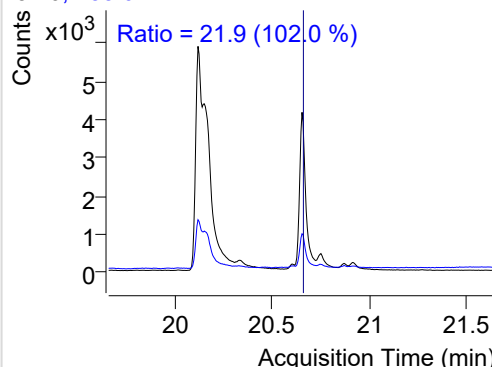
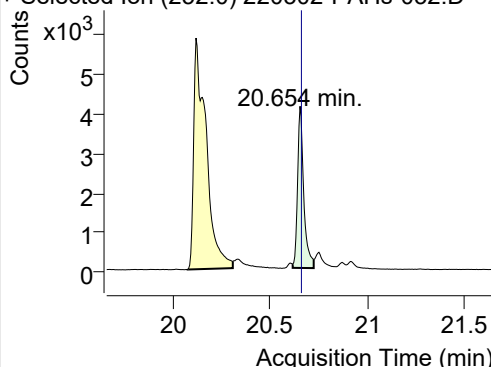


+ SIM (20.556-20.708 min, 29 scans) (**) 2203

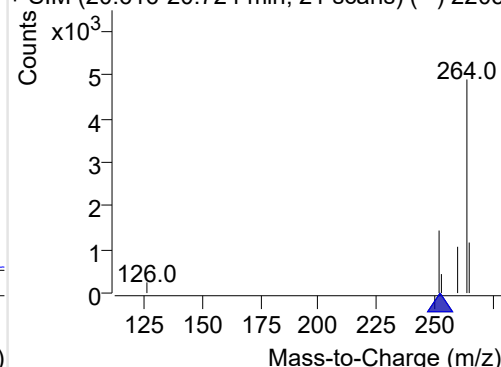
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-032.D

252.0, 253.0

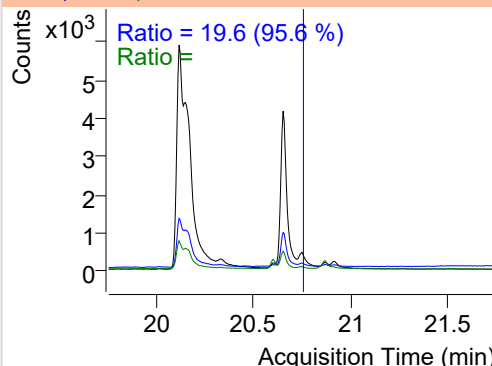
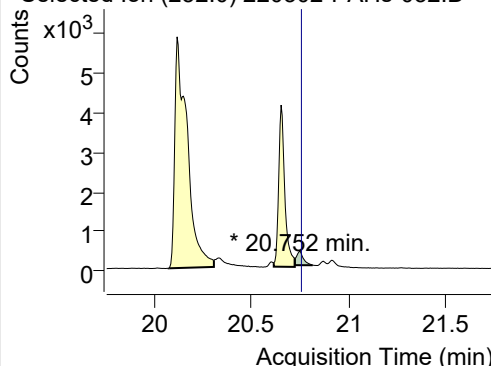


+ SIM (20.616-20.724 min, 21 scans) (**) 2203

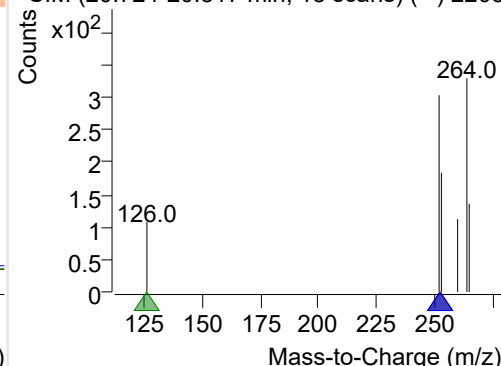
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-032.D

252.0, 253.0, 126.0

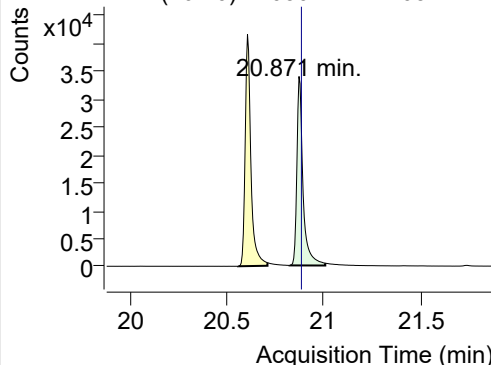


+ SIM (20.724-20.817 min, 18 scans) (**) 2203

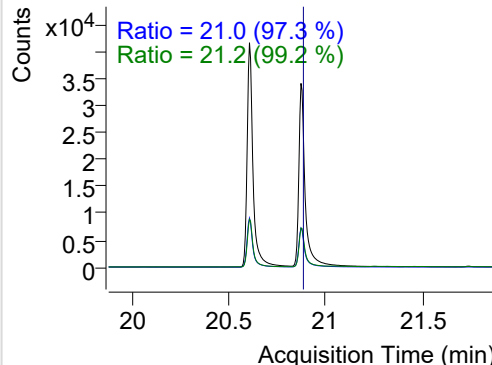


IS-D12-Perylene

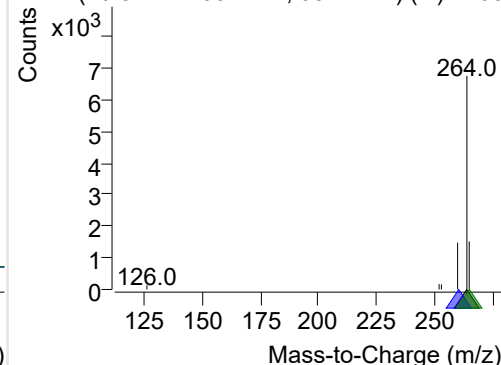
+ Selected Ion (264.0) 220302-PAHs-032.D



264.0, 260.0, 265.0

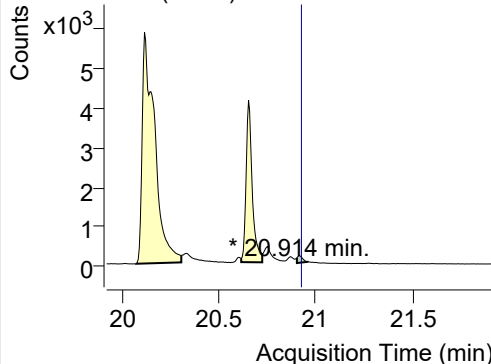


+ SIM (20.822-21.007 min, 35 scans) (**) 2203

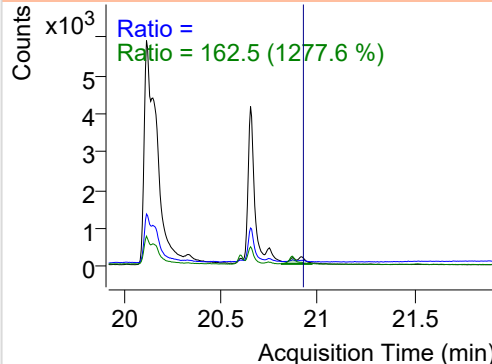


Perylene

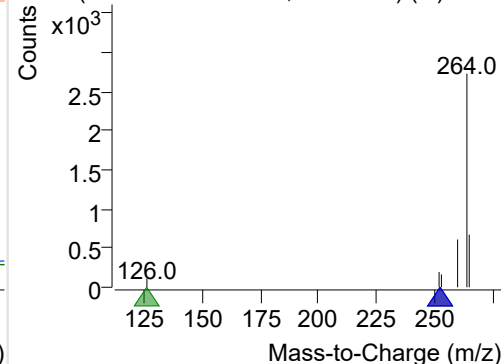
+ Selected Ion (252.0) 220302-PAHs-032.D



252.0, 253.0, 126.0

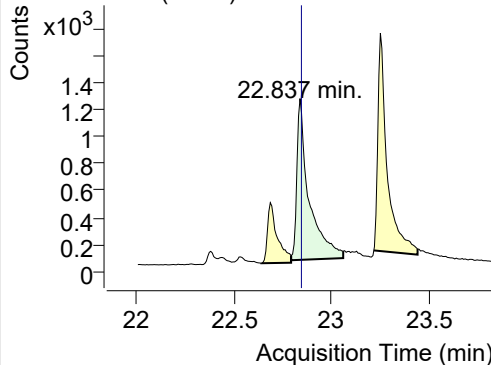


+ SIM (20.903-20.963 min, 12 scans) (**) 2203

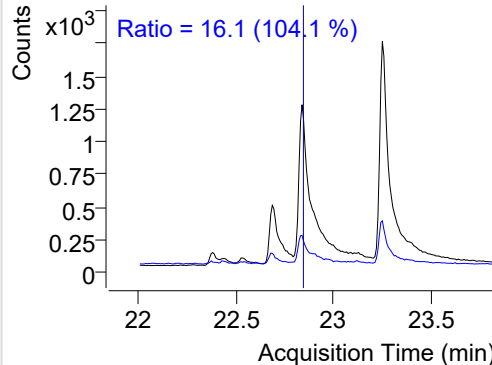


Indeno(1,2,3-c,d)pyrene

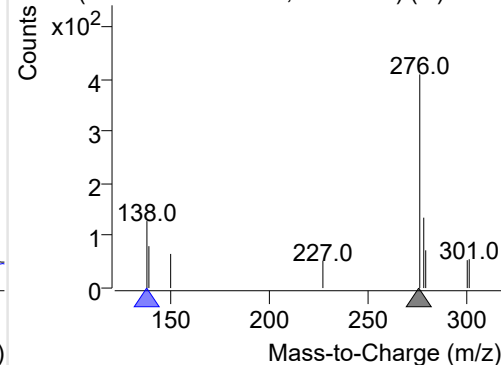
+ Selected Ion (276.0) 220302-PAHs-032.D



276.0, 138.0

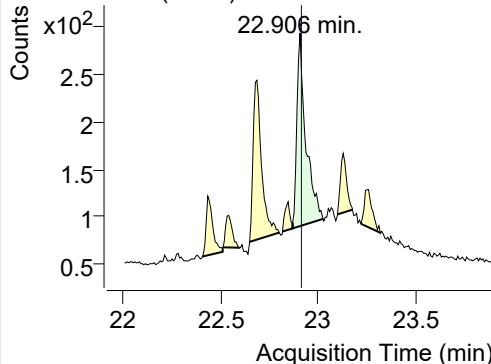


+ SIM (22.791-23.058 min, 36 scans) (**) 2203

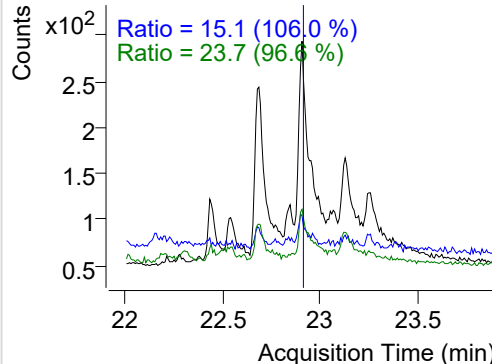


Dibenz(a,h)anthracene

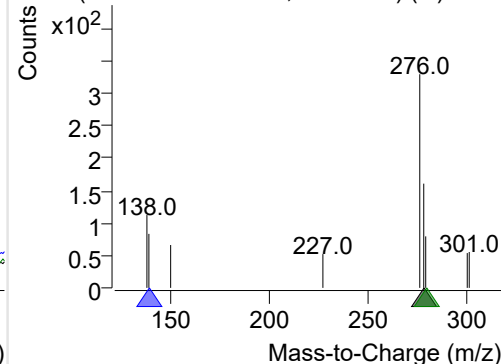
+ Selected Ion (278.0) 220302-PAHs-032.D



278.0, 139.0, 279.0

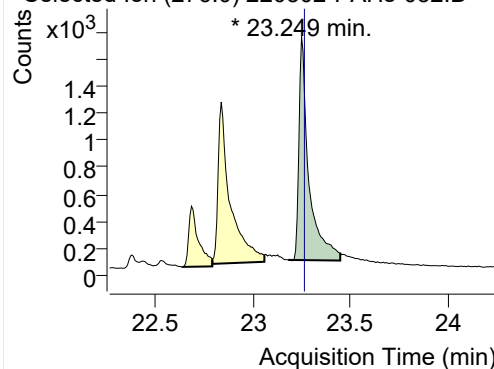


+ SIM (22.867-23.024 min, 21 scans) (**) 2203

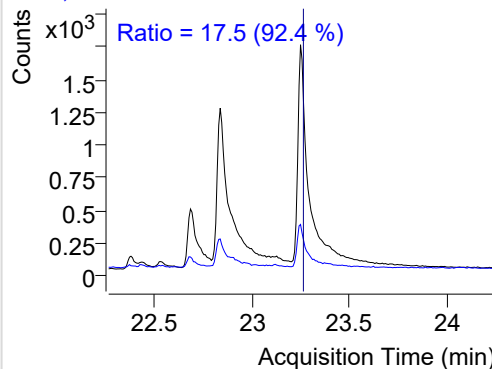


Benzo(g,h,i)perylene

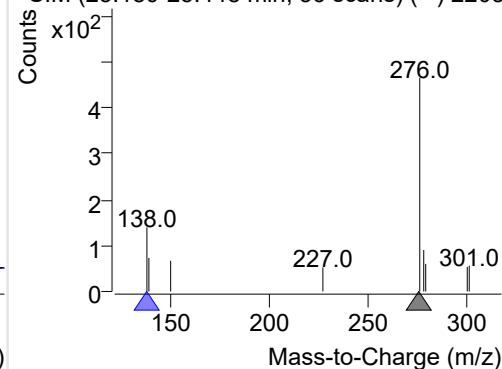
+ Selected Ion (276.0) 220302-PAHs-032.D



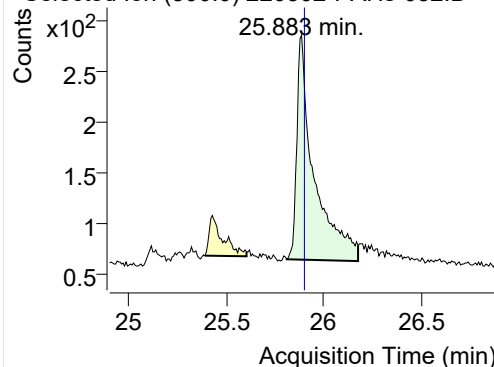
276.0, 138.0



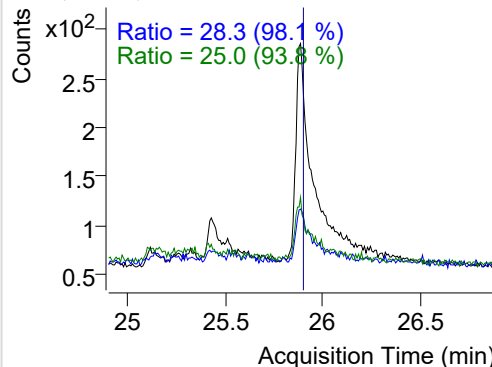
+ SIM (23.180-23.448 min, 36 scans) (**) 2203

**Coronene**

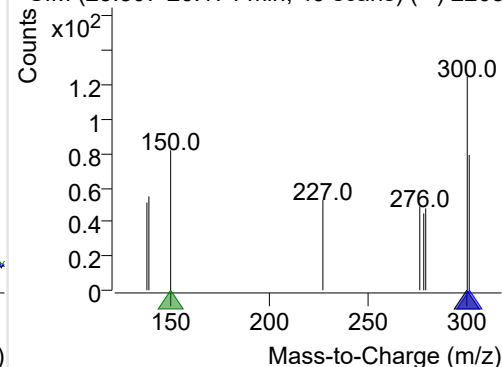
+ Selected Ion (300.0) 220302-PAHs-032.D



300.0, 301.0, 150.0



+ SIM (25.807-26.174 min, 49 scans) (**) 2203



Quantitative Analysis Sample Based Report

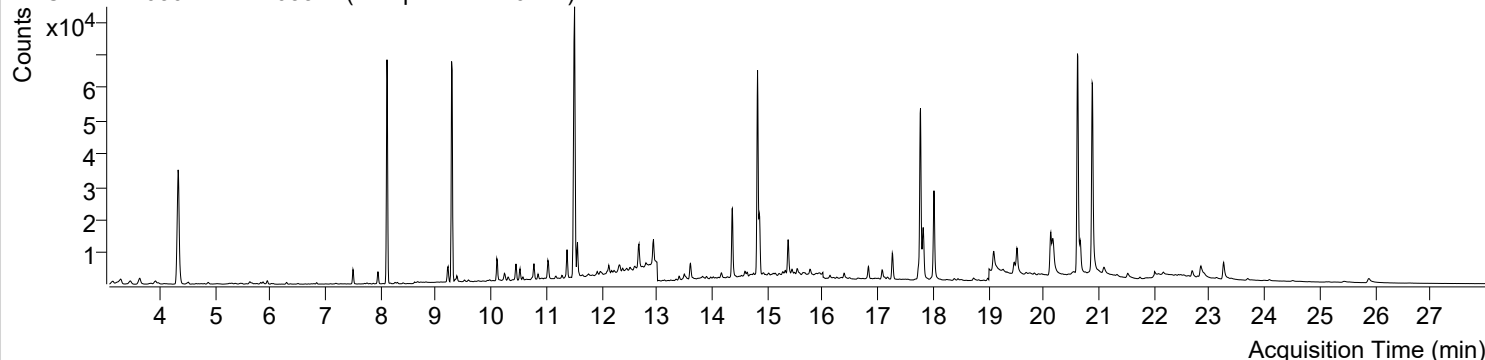


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 2:25:04	Data File	220302-PAHs-033.D
Type	Sample	Name	Sample-PM-220211
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

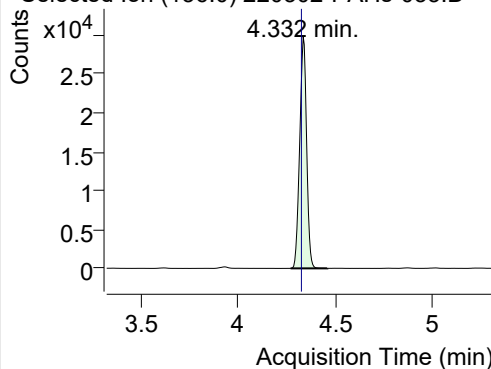
+ TIC SIM 220302-PAHs-033.D (Sample-PM-220211)



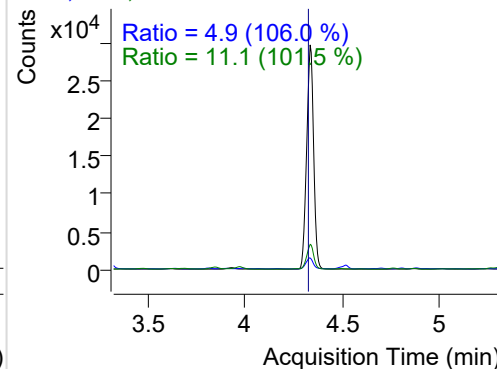
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.332	136.0	73321	29742.50	ND ng/ml	11.1
Naphthalene	4.370	128.0	2669	1068.45	ND ng/ml	22.3
Acenaphthylene	7.745	152.0	271	165.93	ND ng/ml	38.4
IS-D10-Acenaphthene	8.112	164.0	49823	33356.93	ND ng/ml	90.2
Acenaphthene	8.183	154.0	108	58.33	ND ng/ml	70.7
LSS-D10-Fluorene	9.292	176.0	52677	31581.77	ND ng/ml	85.4
Fluorene	9.344	166.0	593	322.42	ND ng/ml	74.7
IS-D10-Phenanthrene	11.508	188.0	86379	58422.85	ND ng/ml	15.2
Phenanthrene	11.560	178.0	10814	7123.75	ND ng/ml	17.1
Anthracene	11.665	178.0	132	73.50	ND ng/ml	
Fluoranthene	14.359	202.0	24684	15346.51	ND ng/ml	19.8
LSS-D10-Pyrene	14.820	212.0	74544	47394.91	ND ng/ml	20.3
Pyrene	14.858	202.0	19617	12281.11	ND ng/ml	22.0
Benz(a)anthracene	17.731	228.0	5263	2606.50	ND ng/ml	17.2
IS-D12-Chrysene	17.769	240.0	74039	40067.15	ND ng/ml	18.8
Chrysene	17.818	228.0	21919	9966.10	ND ng/ml	20.9
Benzo(b)fluoranthene	20.128	252.0	13887	7411.58	ND ng/ml	22.3
Benzo(k)fluoranthene	20.160	252.0	18207	6036.54	ND ng/ml	28.0
SS-D12-Benzo(e)pyrene	20.610	264.0	91634	46078.33	ND ng/ml	21.6
Benzo(e)pyrene	20.665	252.0	11210	5448.65	ND ng/ml	20.4
Benzo(a)pyrene	20.757	252.0	392	200.30	ND ng/ml	
IS-D12-Perylene	20.876	264.0	82765	39471.52	ND ng/ml	21.2
Perylene	20.920	252.0	202	169.45	ND ng/ml	509.3
Indeno(1,2,3-c,d)pyrene	22.844	276.0	9757	2738.71	ND ng/ml	16.1
Dibenz(a,h)anthracene	22.906	278.0	956	330.65	ND ng/ml	
Benzo(g,h,i)perylene	23.257	276.0	11995	4095.94	ND ng/ml	16.8
Coronene	25.883	300.0	4600	841.88	ND ng/ml	23.3

IS-D8-Naphthalene

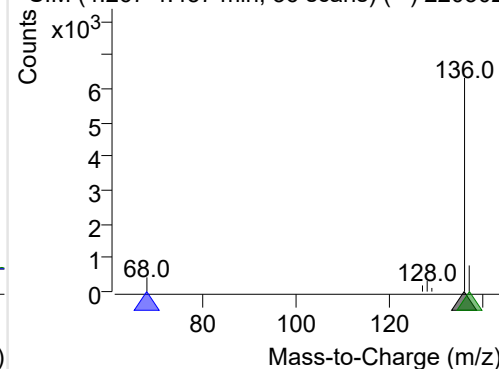
+ Selected Ion (136.0) 220302-PAHs-033.D



136.0, 68.0, 137.0

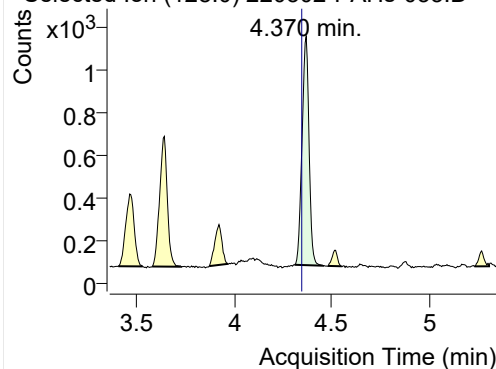


+ SIM (4.267-4.457 min, 36 scans) (**) 220302

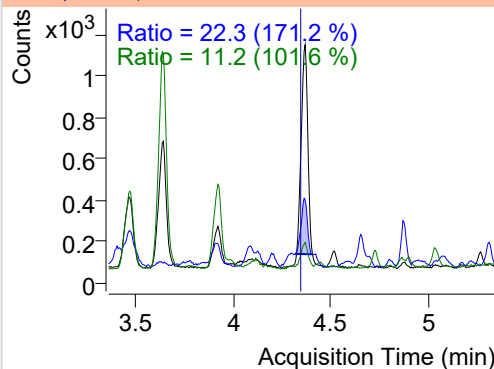


Naphthalene

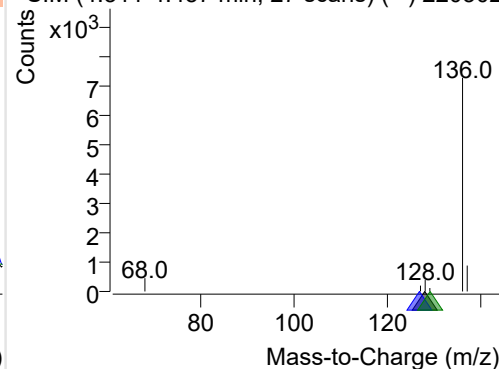
+ Selected Ion (128.0) 220302-PAHs-033.D



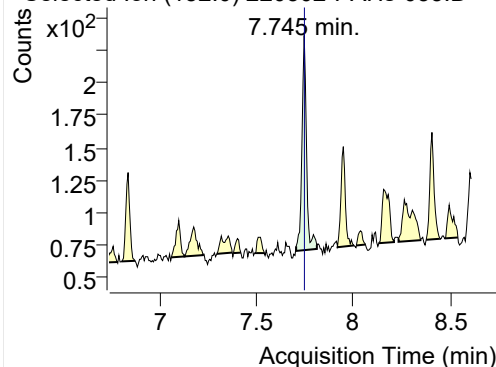
128.0, 127.0, 129.0



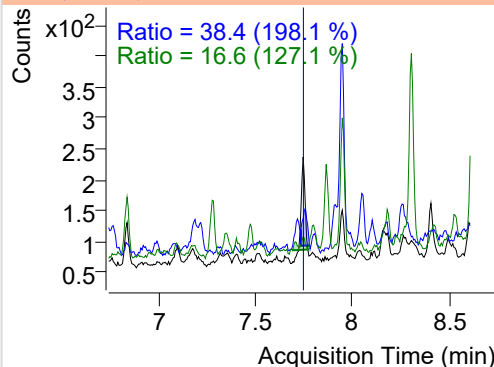
+ SIM (4.311-4.457 min, 27 scans) (**) 220302

**Acenaphthylene**

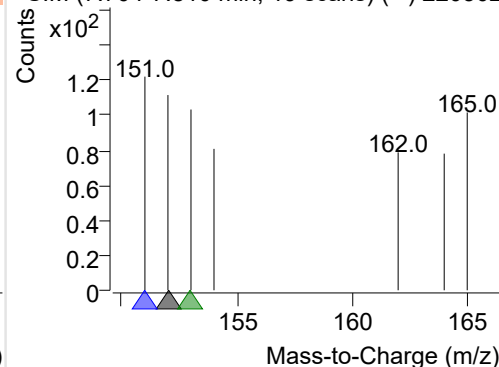
+ Selected Ion (152.0) 220302-PAHs-033.D



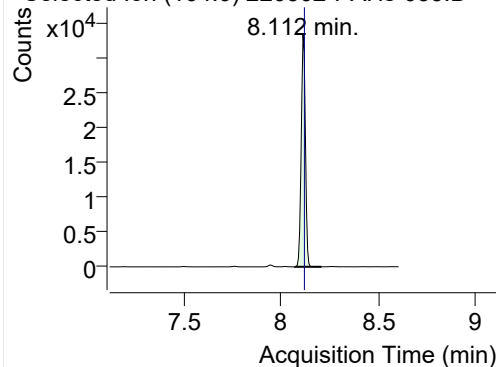
152.0, 151.0, 153.0



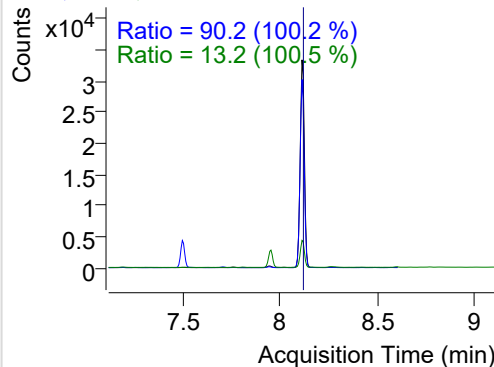
+ SIM (7.704-7.810 min, 19 scans) (**) 220302

**IS-D10-Acenaphthene**

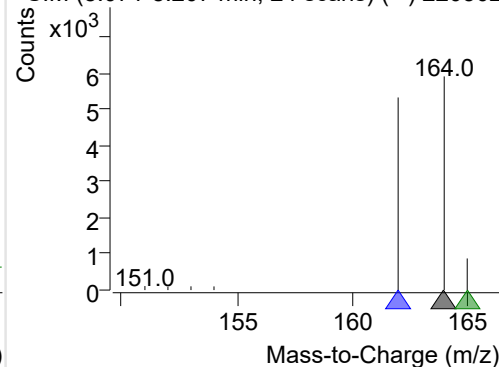
+ Selected Ion (164.0) 220302-PAHs-033.D



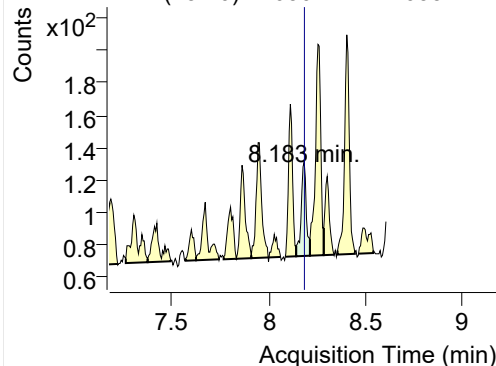
164.0, 162.0, 165.0



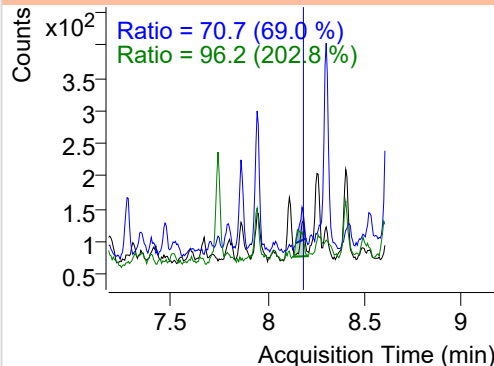
+ SIM (8.071-8.207 min, 24 scans) (**) 220302

**Acenaphthene**

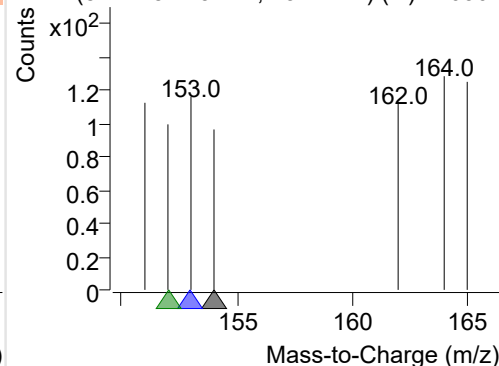
+ Selected Ion (154.0) 220302-PAHs-033.D



154.0, 153.0, 152.0

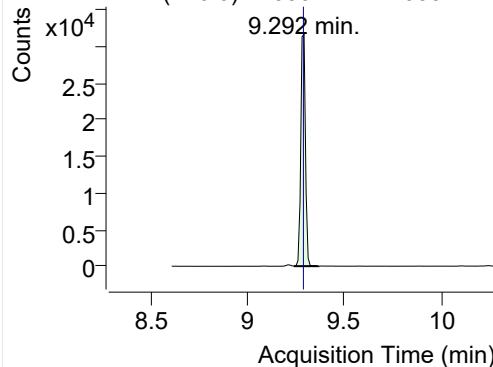


+ SIM (8.142-8.213 min, 13 scans) (**) 220302

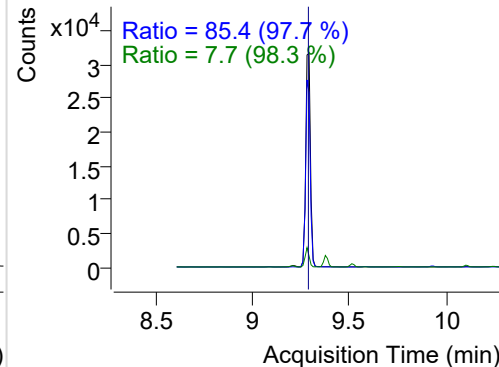


LSS-D10-Fluorene

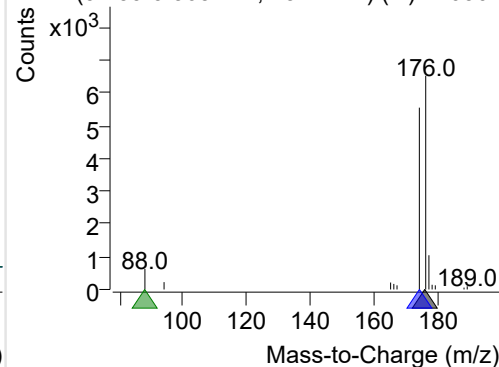
+ Selected Ion (176.0) 220302-PAHs-033.D



176.0, 174.0, 88.0

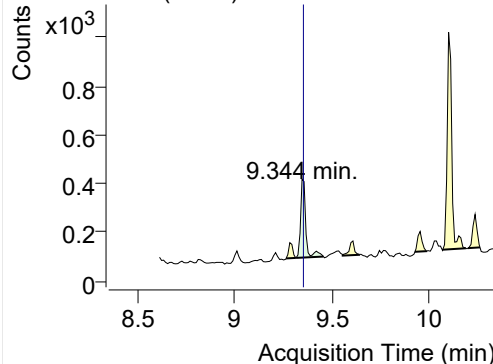


+ SIM (9.239-9.365 min, 13 scans) (**) 220302

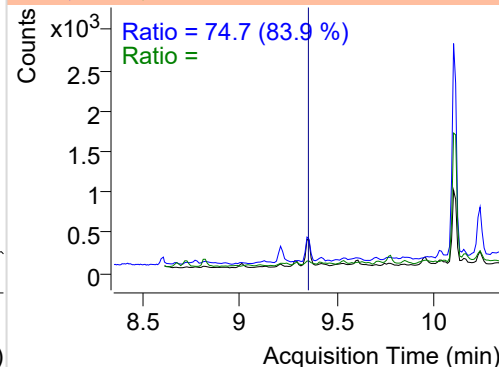


Fluorene

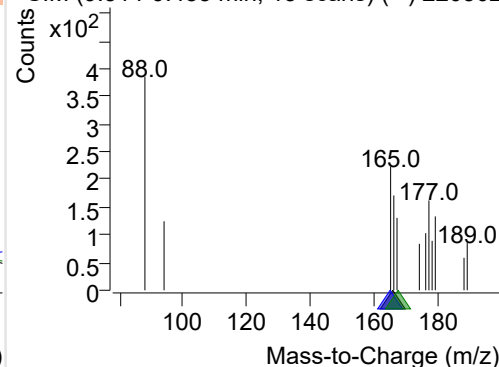
+ Selected Ion (166.0) 220302-PAHs-033.D



166.0, 165.0, 167.0

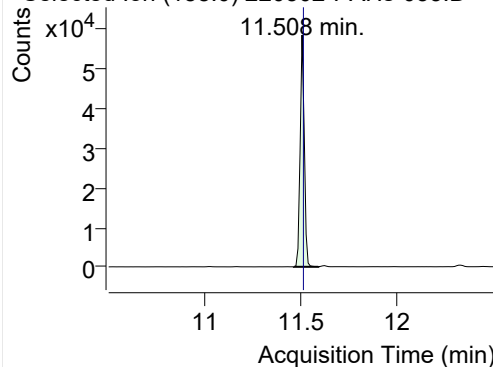


+ SIM (9.314-9.455 min, 13 scans) (**) 220302

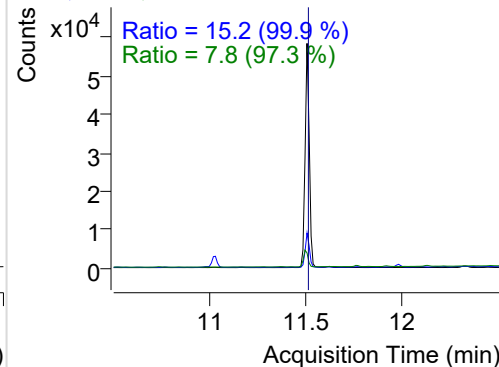


IS-D10-Phenanthrene

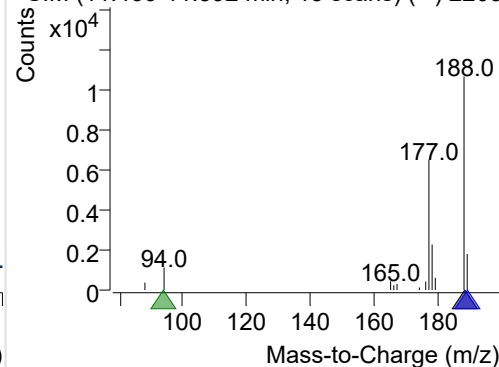
+ Selected Ion (188.0) 220302-PAHs-033.D



188.0, 189.0, 94.0

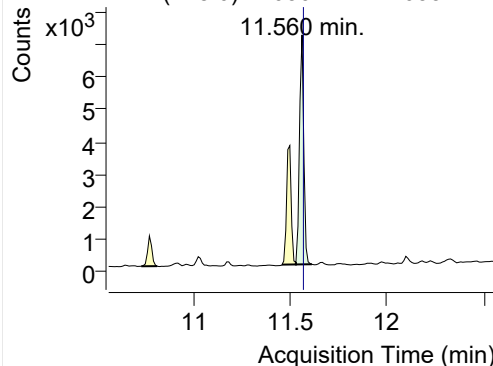


+ SIM (11.466-11.592 min, 13 scans) (**) 2203

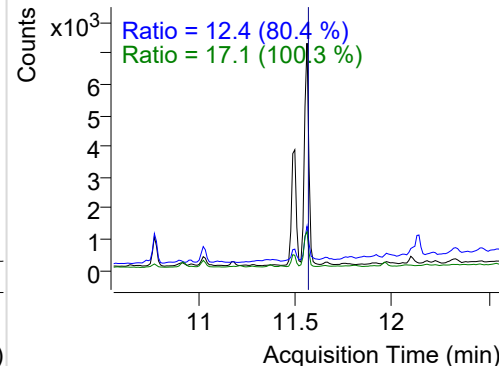


Phenanthrene

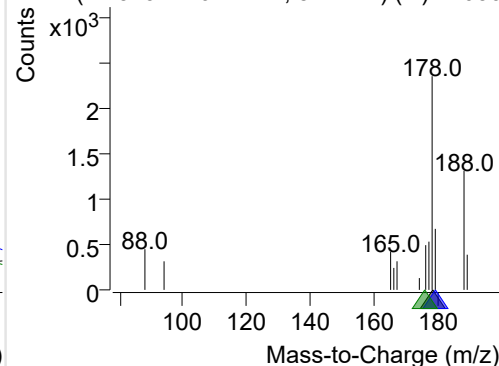
+ Selected Ion (178.0) 220302-PAHs-033.D



178.0, 179.0, 176.0

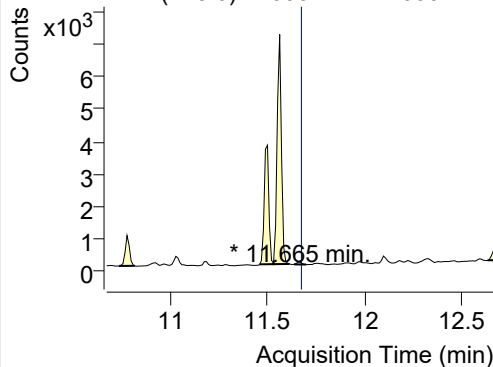


+ SIM (11.529-11.611 min, 8 scans) (**) 22030

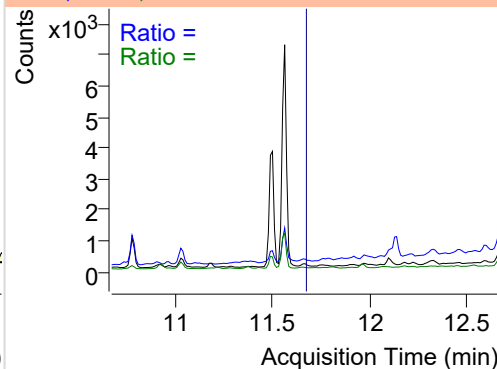


Anthracene

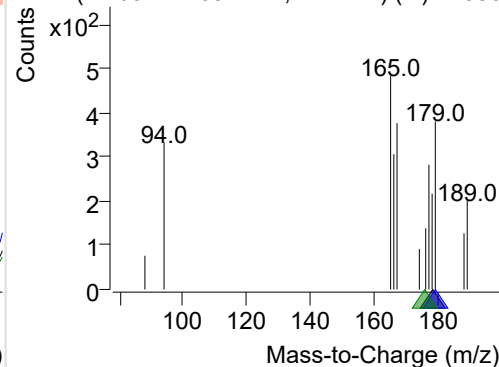
+ Selected Ion (178.0) 220302-PAHs-033.D



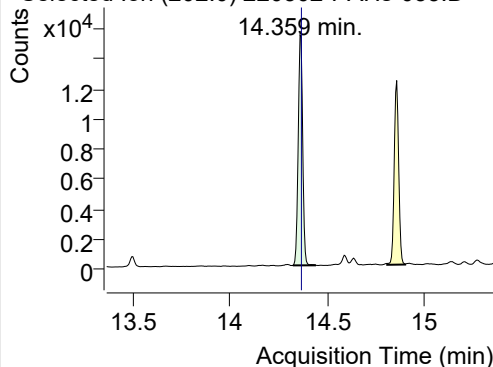
178.0, 179.0, 176.0



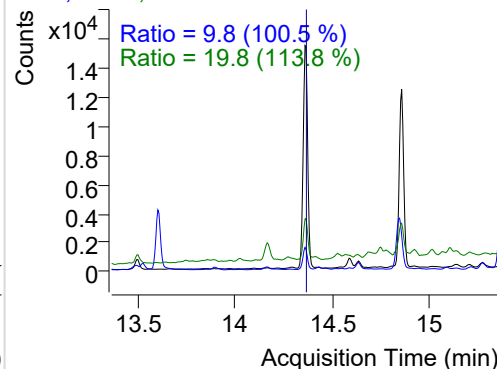
+ SIM (11.634-11.697 min, 7 scans) (**) 22030

**Fluoranthene**

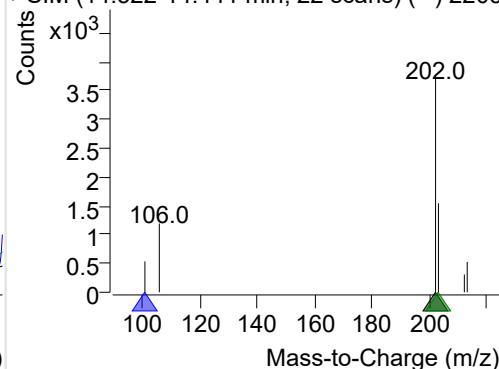
+ Selected Ion (202.0) 220302-PAHs-033.D



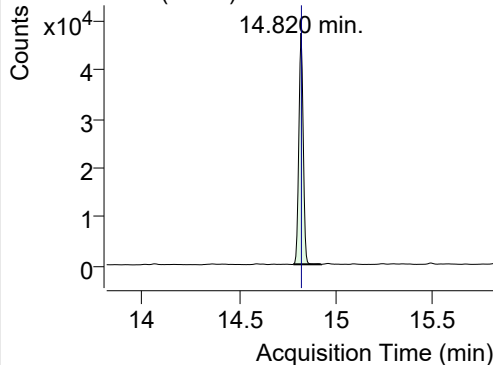
202.0, 101.0, 203.0



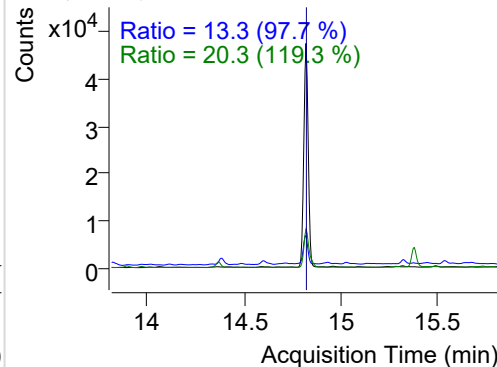
+ SIM (14.322-14.441 min, 22 scans) (**) 2203

**LSS-D10-Pyrene**

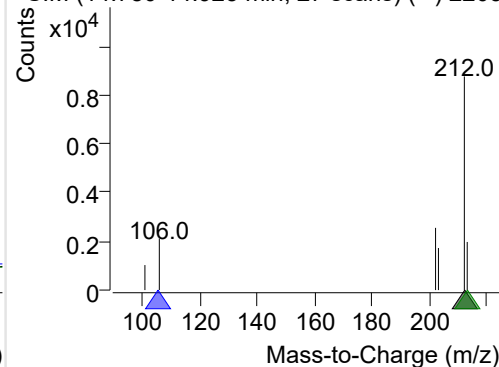
+ Selected Ion (212.0) 220302-PAHs-033.D



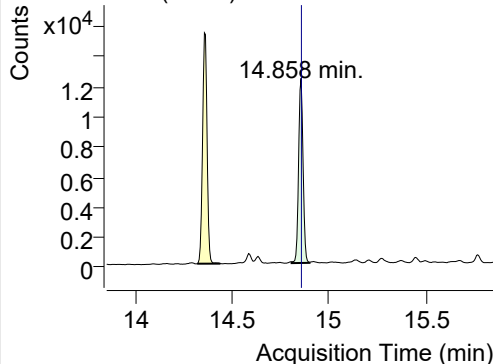
212.0, 106.0, 213.0



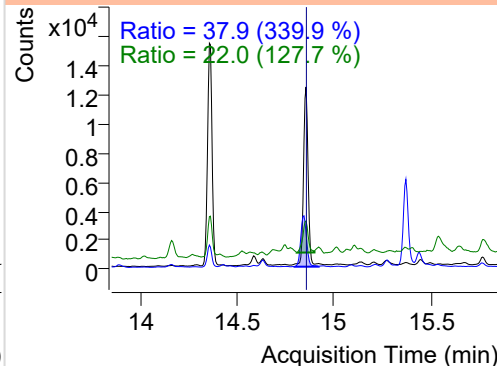
+ SIM (14.780-14.923 min, 27 scans) (**) 2203

**Pyrene**

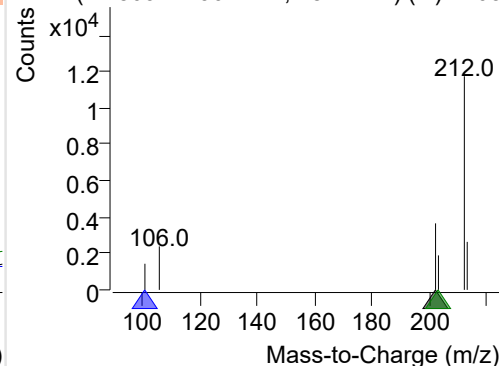
+ Selected Ion (202.0) 220302-PAHs-033.D



202.0, 101.0, 203.0



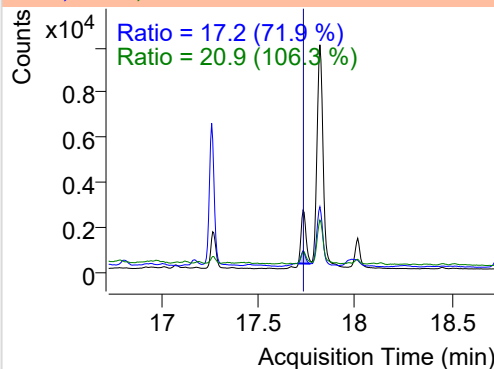
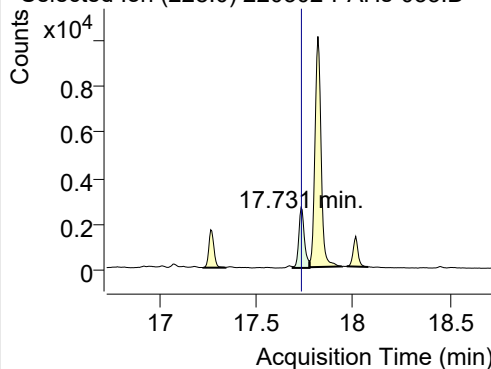
+ SIM (14.809-14.901 min, 18 scans) (**) 2203



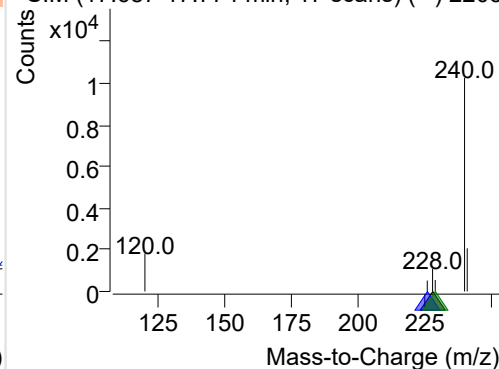
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-033.D

228.0, 226.0, 229.0

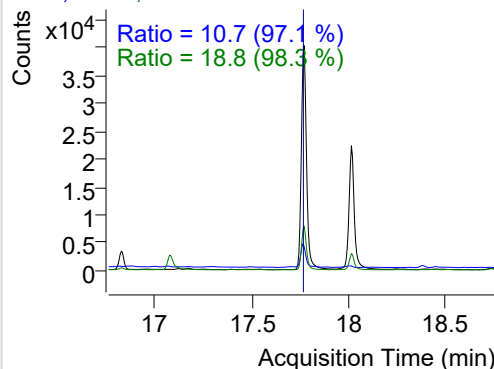
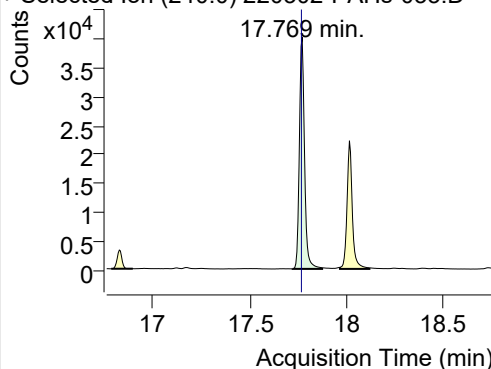


+ SIM (17.687-17.774 min, 17 scans) (**) 2203

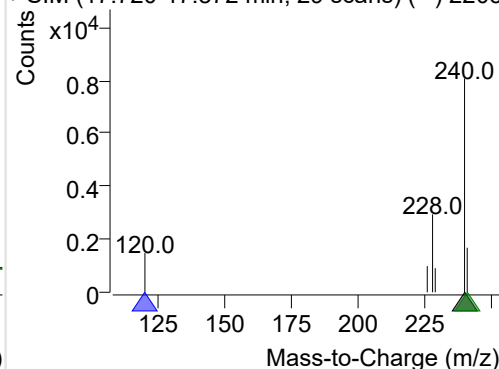
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-033.D

240.0, 120.0, 241.0

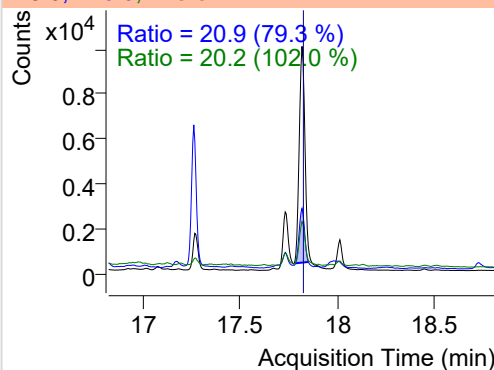
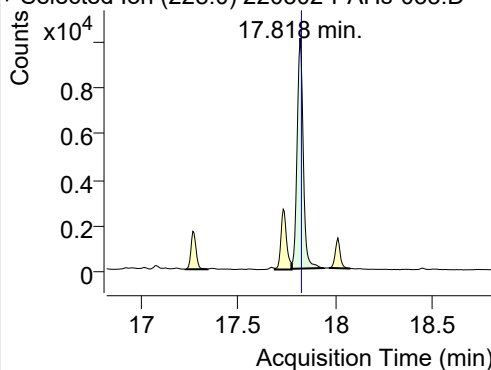


+ SIM (17.720-17.872 min, 29 scans) (**) 2203

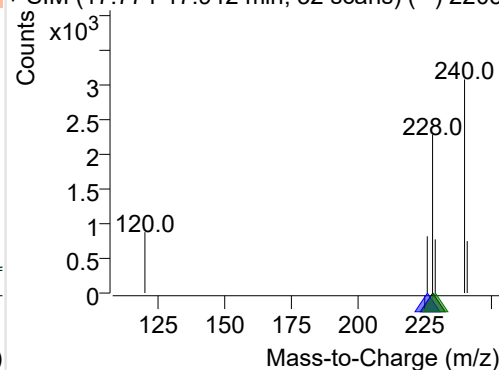
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-033.D

228.0, 226.0, 229.0

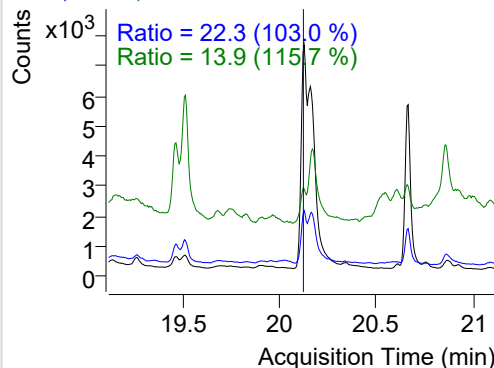
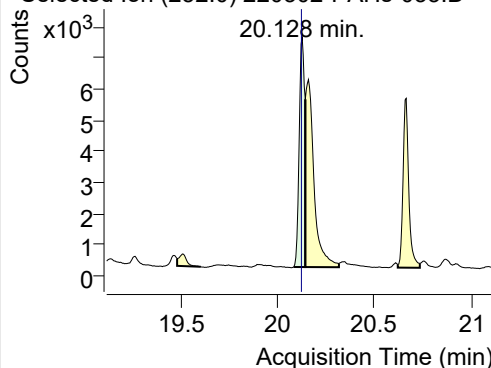


+ SIM (17.774-17.942 min, 32 scans) (**) 2203

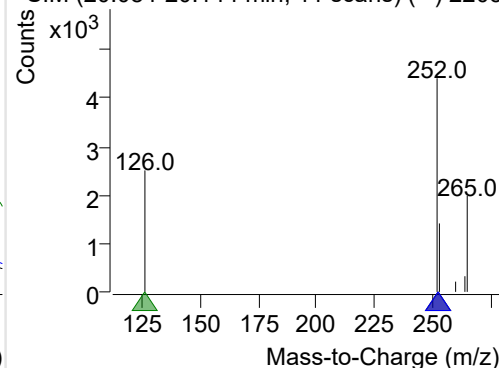
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-033.D

252.0, 253.0, 126.0



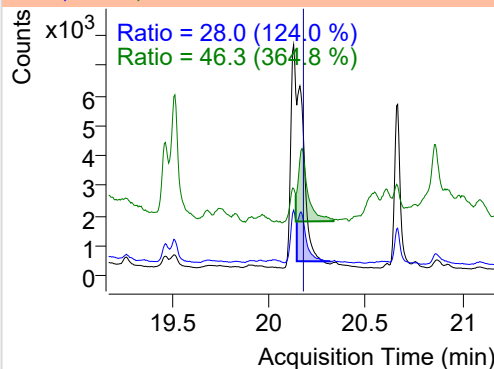
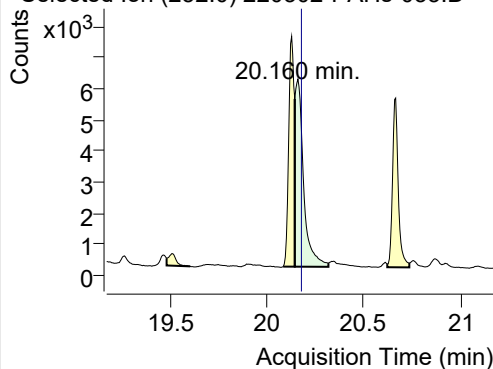
+ SIM (20.084-20.144 min, 11 scans) (**) 2203



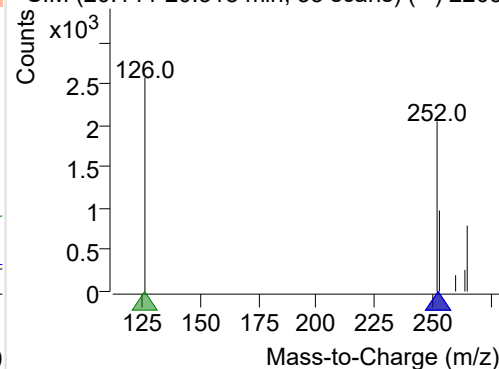
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-033.D

252.0, 253.0, 126.0

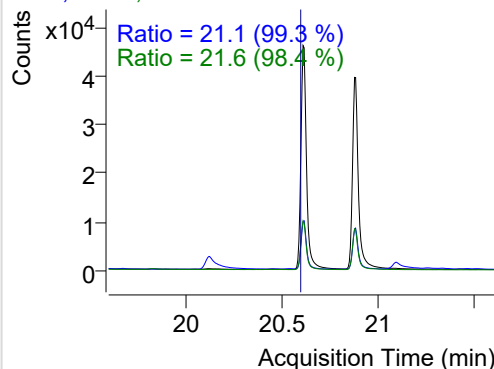
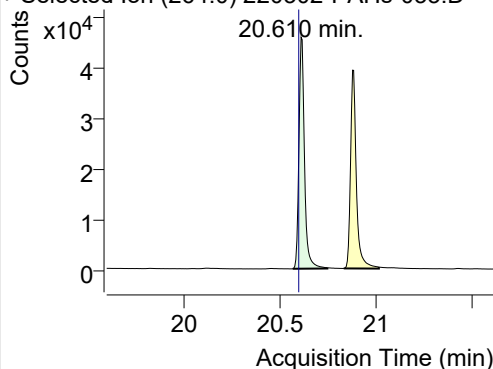


+ SIM (20.144-20.318 min, 33 scans) (**) 2203

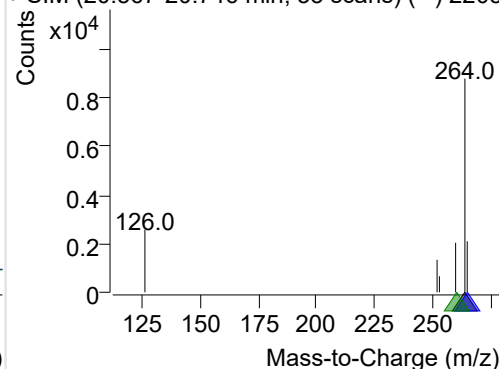
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-033.D

264.0, 265.0, 260.0

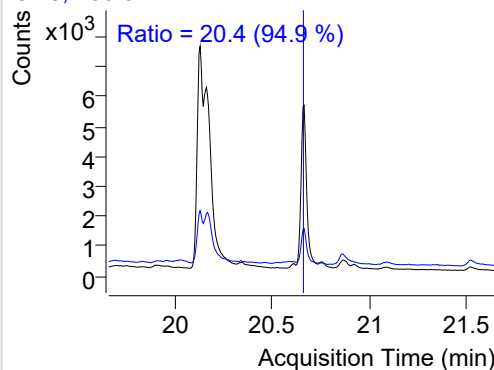
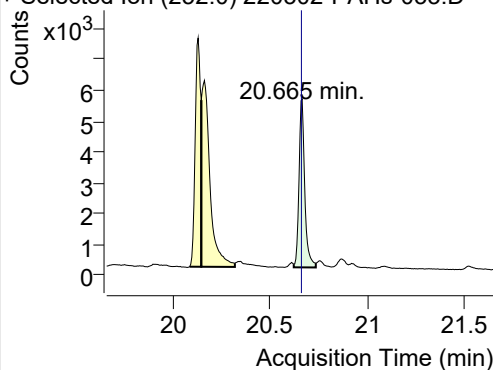


+ SIM (20.567-20.746 min, 33 scans) (**) 2203

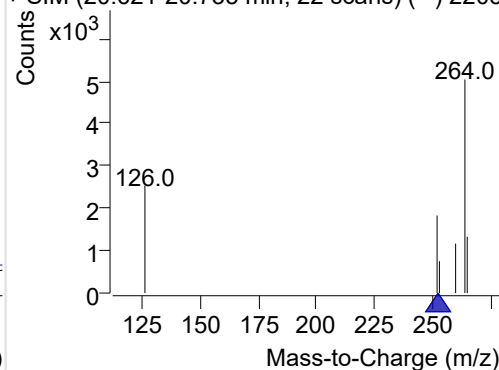
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-033.D

252.0, 253.0

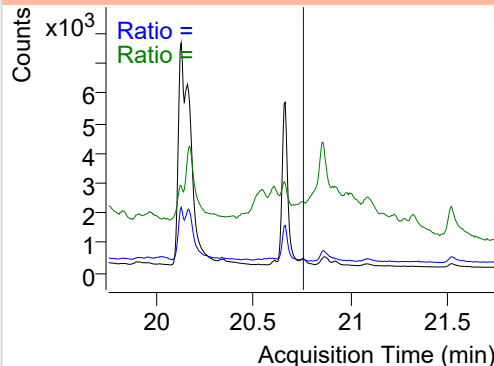
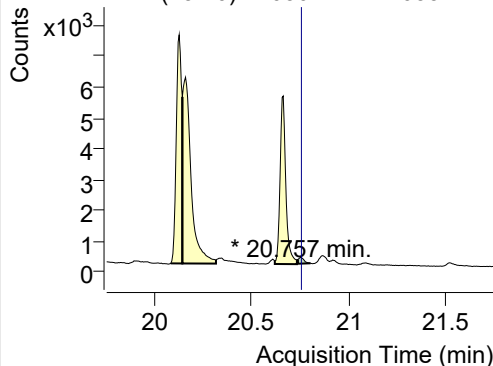


+ SIM (20.621-20.735 min, 22 scans) (**) 2203

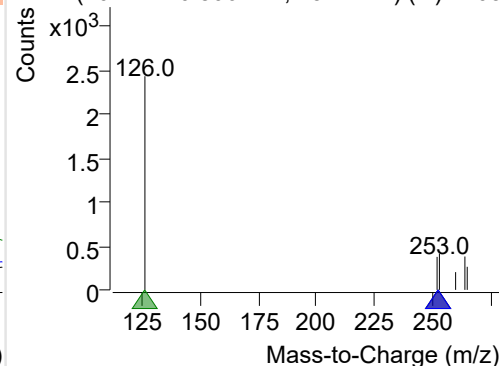
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-033.D

252.0, 253.0, 126.0

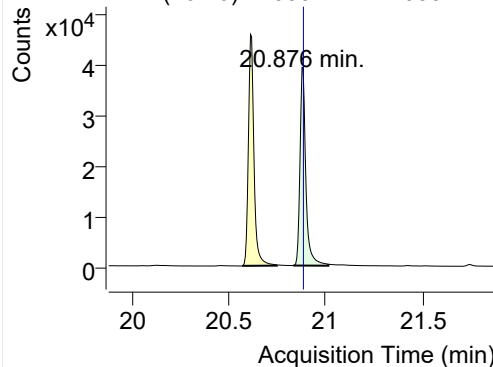


+ SIM (20.741-20.806 min, 13 scans) (**) 2203

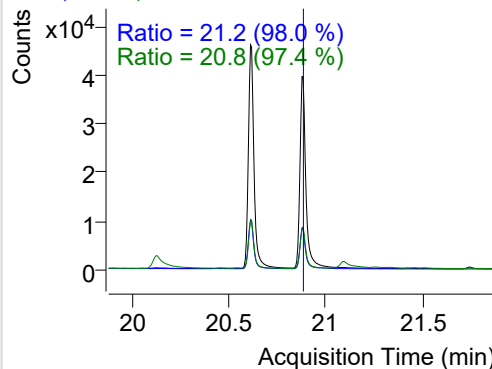


IS-D12-Perylene

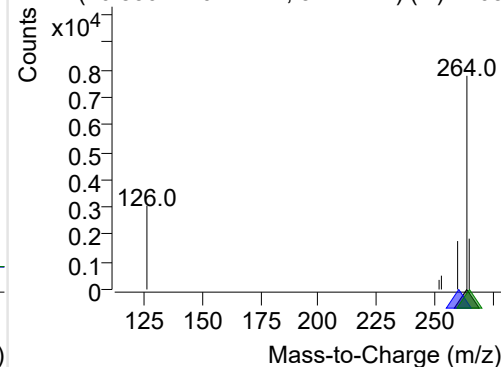
+ Selected Ion (264.0) 220302-PAHs-033.D



264.0, 260.0, 265.0

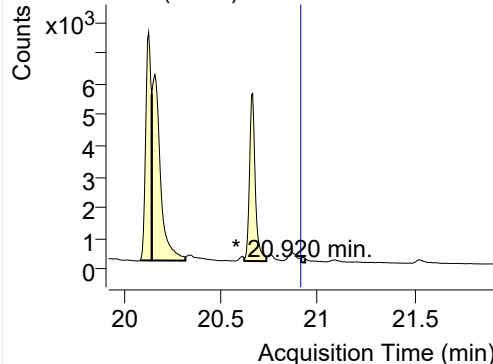


+ SIM (20.830-21.012 min, 34 scans) (**) 2203

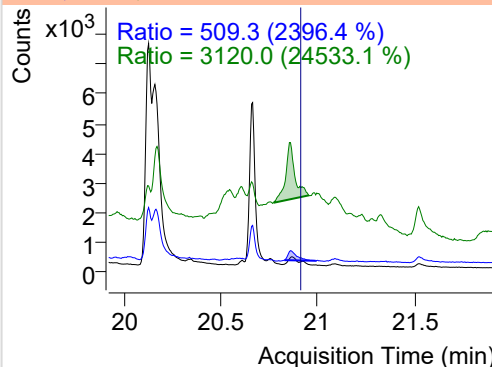


Perylene

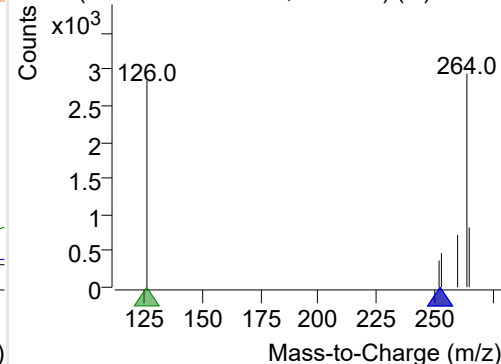
+ Selected Ion (252.0) 220302-PAHs-033.D



252.0, 253.0, 126.0

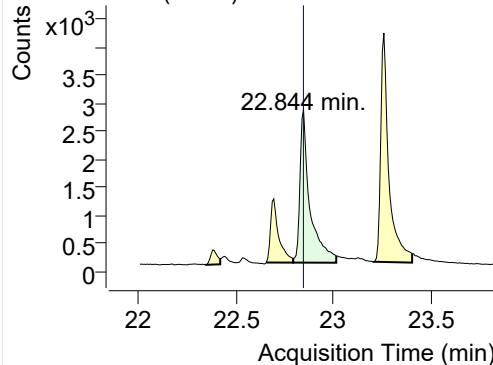


+ SIM (20.914-20.936 min, 5 scans) (**) 22030

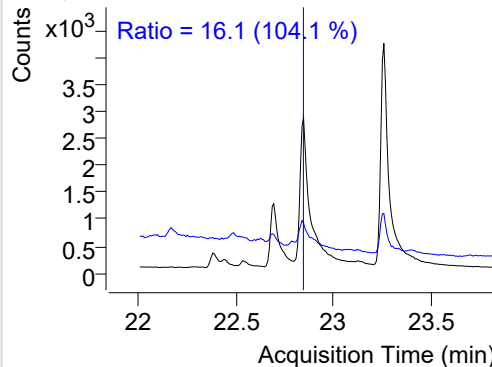


Indeno(1,2,3-c,d)pyrene

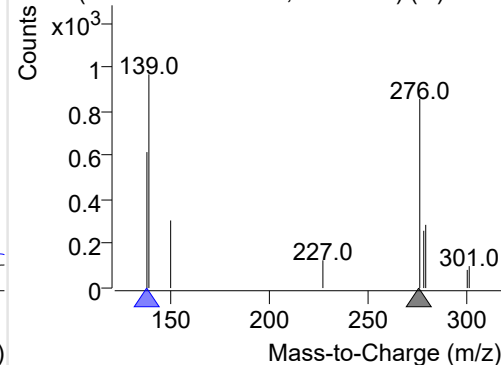
+ Selected Ion (276.0) 220302-PAHs-033.D



276.0, 138.0

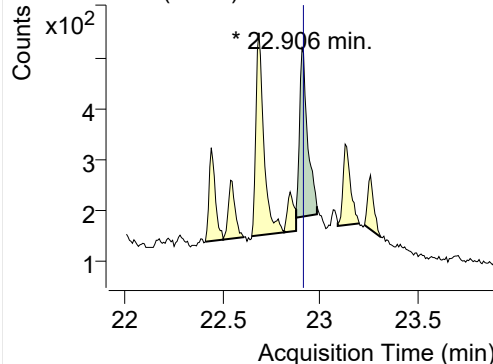


+ SIM (22.791-23.012 min, 30 scans) (**) 2203

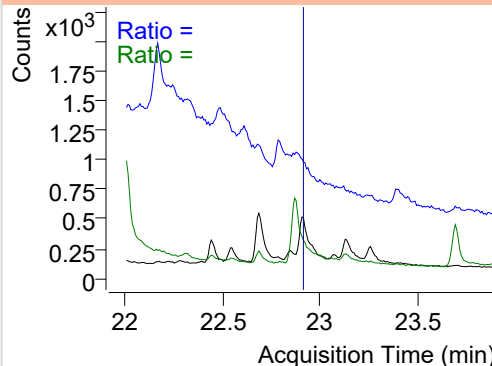


Dibenz(a,h)anthracene

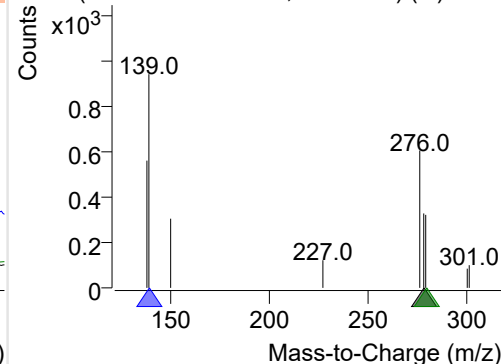
+ Selected Ion (278.0) 220302-PAHs-033.D



278.0, 139.0, 279.0

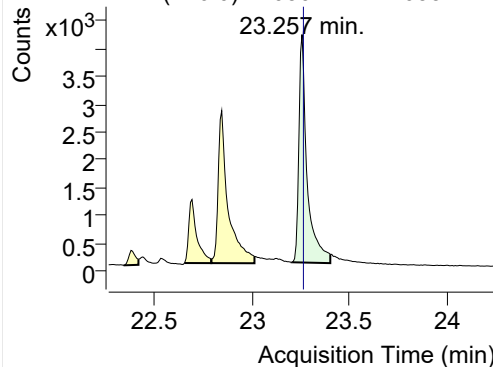


+ SIM (22.875-22.982 min, 15 scans) (**) 2203

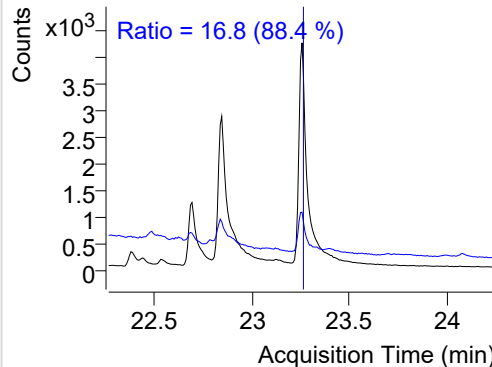


Benzo(g,h,i)perylene

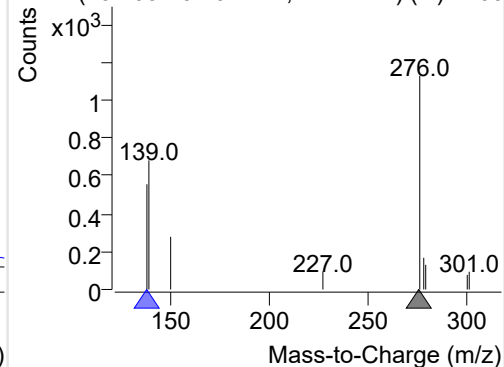
+ Selected Ion (276.0) 220302-PAHs-033.D



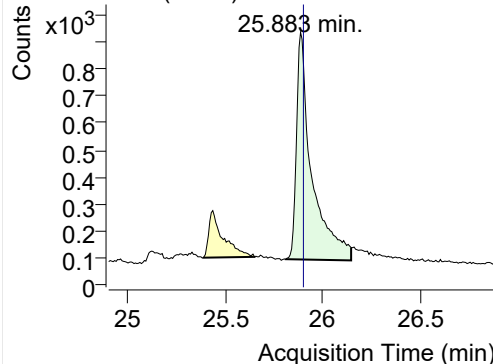
276.0, 138.0



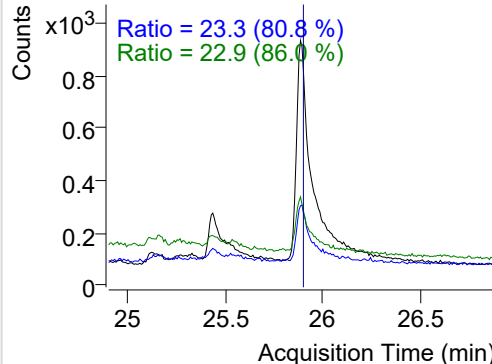
+ SIM (23.203-23.402 min, 27 scans) (**) 2203

**Coronene**

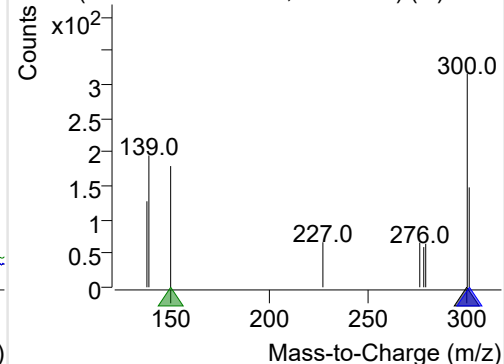
+ Selected Ion (300.0) 220302-PAHs-033.D



300.0, 301.0, 150.0



+ SIM (25.807-26.143 min, 45 scans) (**) 2203



Quantitative Analysis Sample Based Report

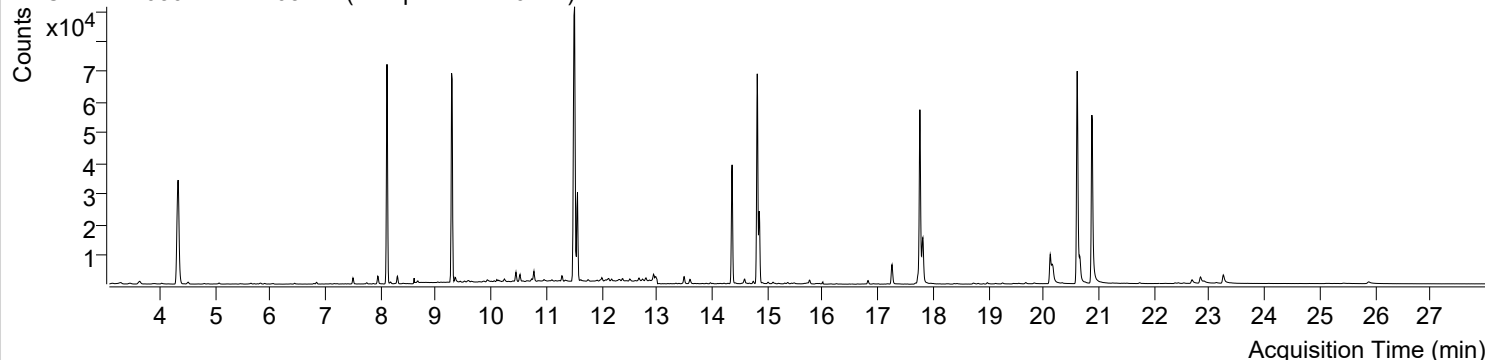


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 2:56:12	Data File	220302-PAHs-034.D
Type	Sample	Name	Sample-PM-220217
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

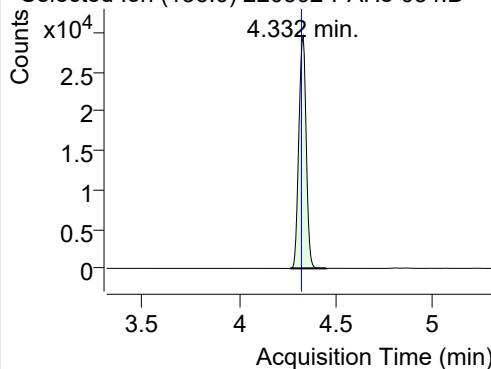
+ TIC SIM 220302-PAHs-034.D (Sample-PM-220217)



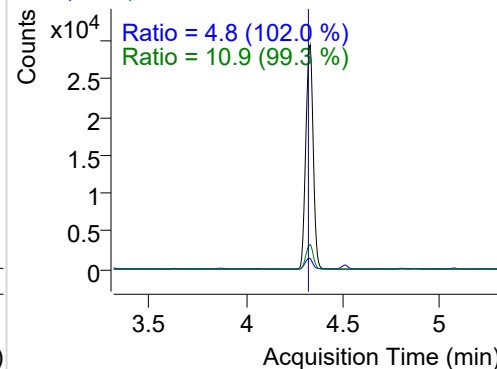
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.332	136.0	77539	29384.17	ND ng/ml	10.9
Naphthalene	4.365	128.0	1837	673.12	ND ng/ml	16.7
Acenaphthylene	7.745	152.0	467	282.69	ND ng/ml	17.3
IS-D10-Acenaphthene	8.112	164.0	51549	35347.48	ND ng/ml	90.7
Acenaphthene	8.183	154.0	345	193.66	ND ng/ml	90.3
LSS-D10-Fluorene	9.292	176.0	54374	32531.69	ND ng/ml	86.8
Fluorene	9.344	166.0	1175	713.72	ND ng/ml	95.1
IS-D10-Phenanthrene	11.508	188.0	94824	63047.78	ND ng/ml	15.1
Phenanthrene	11.560	178.0	31321	19658.39	ND ng/ml	16.9
Anthracene	11.655	178.0	230	84.99	ND ng/ml	2300.8
Fluoranthene	14.359	202.0	48453	30620.85	ND ng/ml	16.7
LSS-D10-Pyrene	14.814	212.0	82151	52711.18	ND ng/ml	17.0
Pyrene	14.852	202.0	29386	18057.94	ND ng/ml	21.4
Benz(a)anthracene	17.725	228.0	3952	1954.33	ND ng/ml	25.1
IS-D12-Chrysene	17.758	240.0	76861	43910.97	ND ng/ml	18.9
Chrysene	17.812	228.0	21748	9765.05	ND ng/ml	26.1
Benzo(b)fluoranthene	20.117	252.0	13651	7166.71	ND ng/ml	24.2
Benzo(k)fluoranthene	20.149	252.0	13939	4683.79	ND ng/ml	21.6
SS-D12-Benzo(e)pyrene	20.605	264.0	93914	48411.55	ND ng/ml	21.5
Benzo(e)pyrene	20.654	252.0	9313	4488.91	ND ng/ml	19.1
Benzo(a)pyrene	20.746	252.0	245	136.08	ND ng/ml	
IS-D12-Perylene	20.871	264.0	81305	38463.50	ND ng/ml	20.9
Perylene	20.920	252.0	301	133.83	ND ng/ml	
Indeno(1,2,3-c,d)pytene	22.837	276.0	6055	1713.34	ND ng/ml	16.5
Dibenz(a,h)anthracene	22.906	278.0	585	199.65	ND ng/ml	42.3
Benzo(g,h,i)perylene	23.249	276.0	6919	2216.48	ND ng/ml	18.6
Coronene	25.883	300.0	2137	380.77	ND ng/ml	29.0

IS-D8-Naphthalene

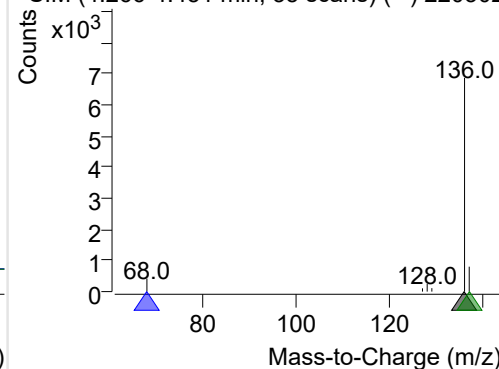
+ Selected Ion (136.0) 220302-PAHs-034.D



136.0, 68.0, 137.0

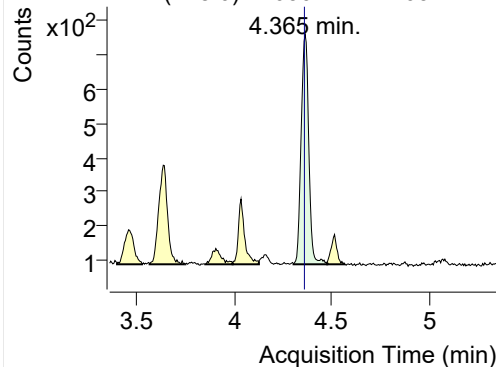


+ SIM (4.266-4.451 min, 35 scans) (**) 220302

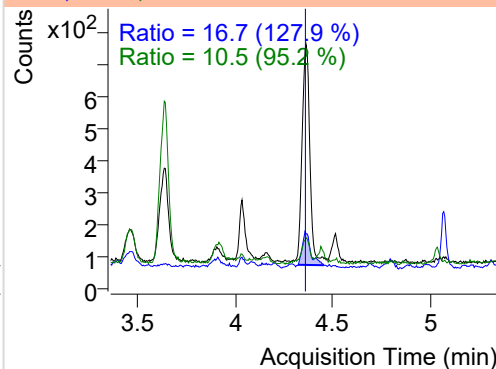


Naphthalene

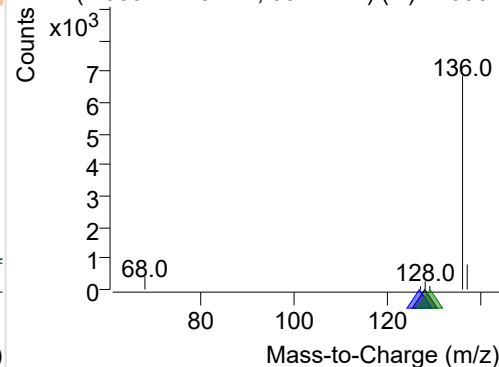
+ Selected Ion (128.0) 220302-PAHs-034.D



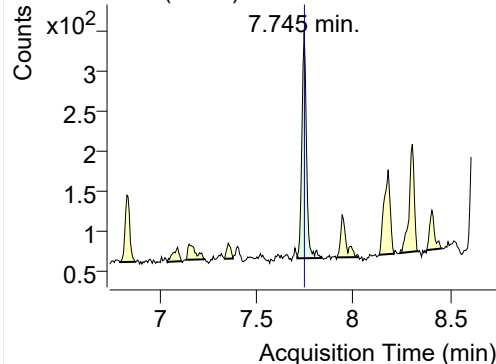
128.0, 127.0, 129.0



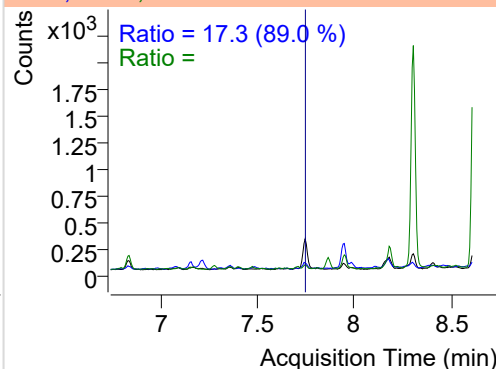
+ SIM (4.305-4.478 min, 33 scans) (**) 220302

**Acenaphthylene**

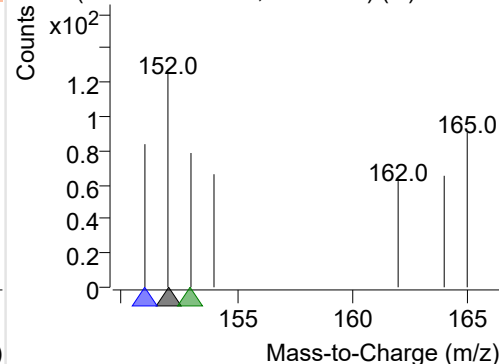
+ Selected Ion (152.0) 220302-PAHs-034.D



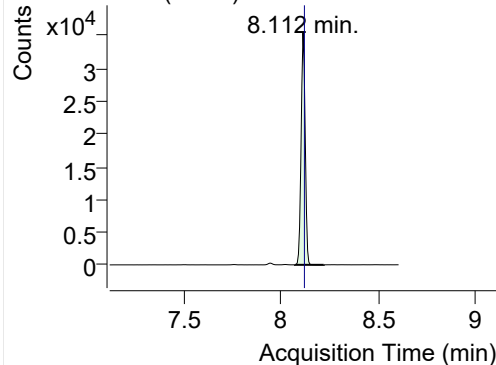
152.0, 151.0, 153.0



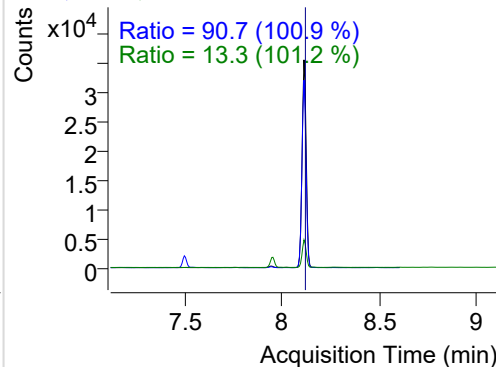
+ SIM (7.710-7.839 min, 22 scans) (**) 220302

**IS-D10-Acenaphthene**

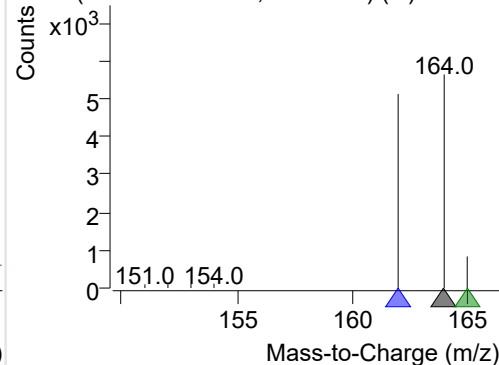
+ Selected Ion (164.0) 220302-PAHs-034.D



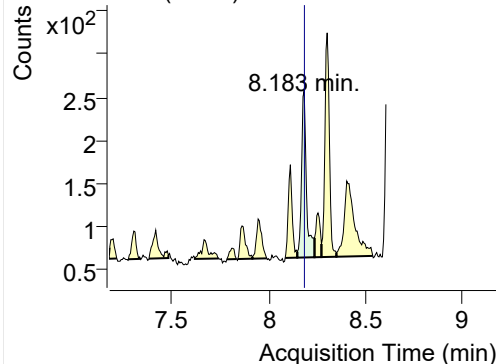
164.0, 162.0, 165.0



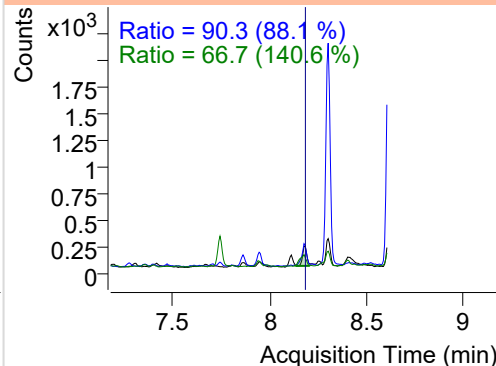
+ SIM (8.071-8.219 min, 26 scans) (**) 220302

**Acenaphthene**

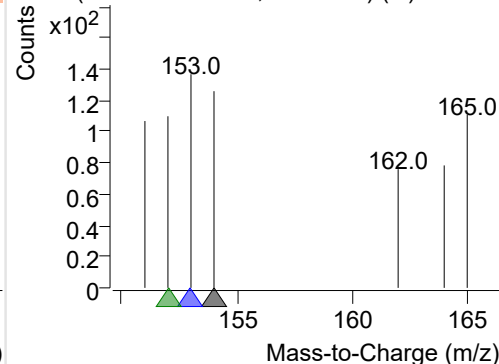
+ Selected Ion (154.0) 220302-PAHs-034.D



154.0, 153.0, 152.0

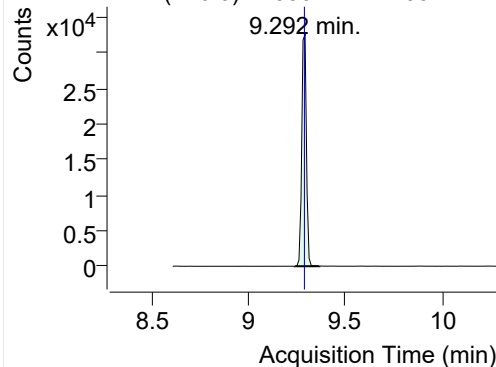


+ SIM (8.148-8.236 min, 16 scans) (**) 220302

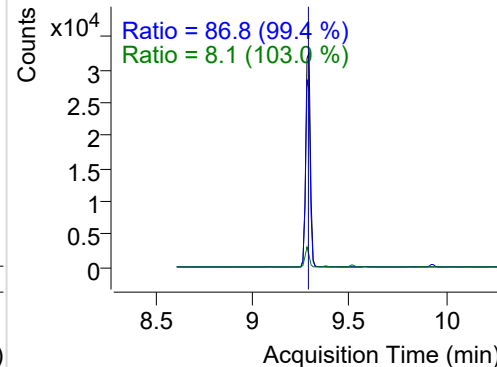


LSS-D10-Fluorene

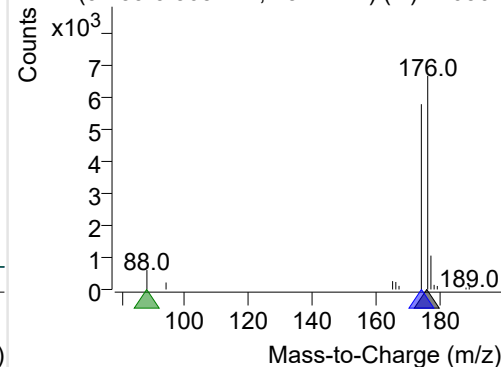
+ Selected Ion (176.0) 220302-PAHs-034.D



176.0, 174.0, 88.0

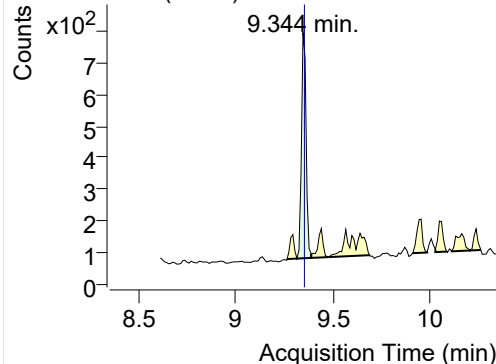


+ SIM (9.239-9.365 min, 13 scans) (**) 220302

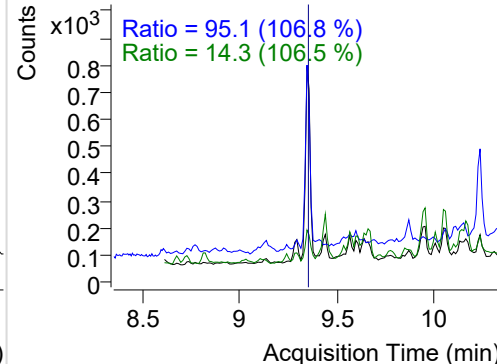


Fluorene

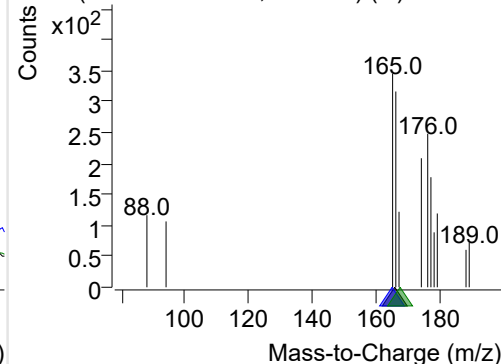
+ Selected Ion (166.0) 220302-PAHs-034.D



166.0, 165.0, 167.0

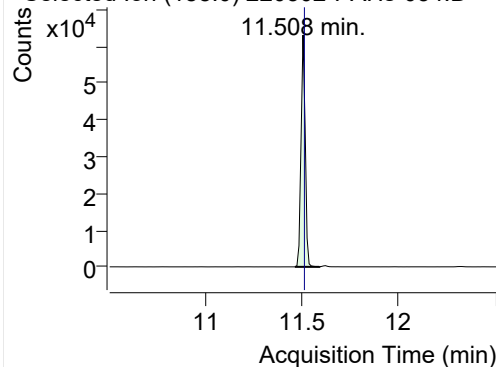


+ SIM (9.313-9.386 min, 8 scans) (**) 220302-I

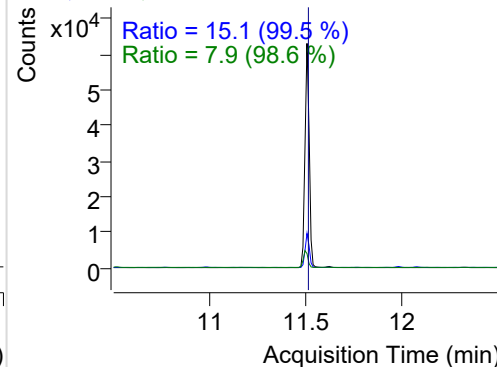


IS-D10-Phenanthrene

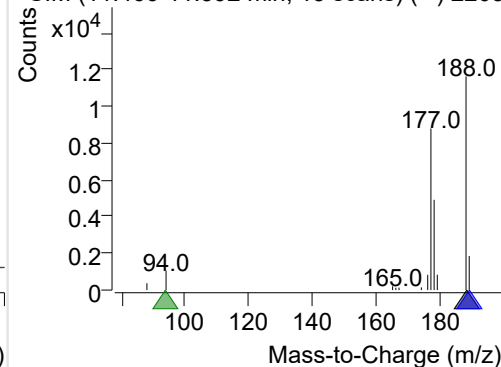
+ Selected Ion (188.0) 220302-PAHs-034.D



188.0, 189.0, 94.0

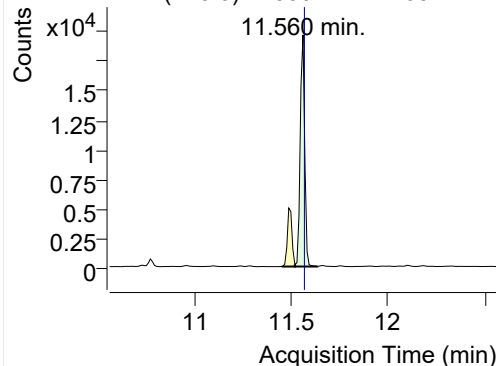


+ SIM (11.466-11.592 min, 13 scans) (**) 2203

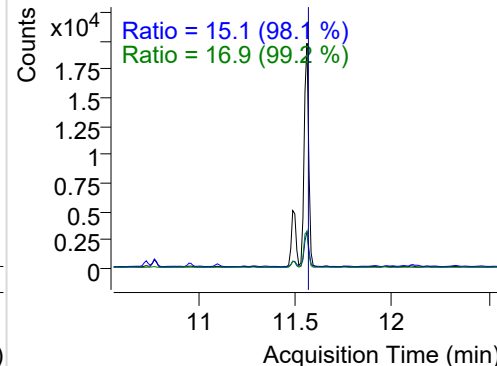


Phenanthrene

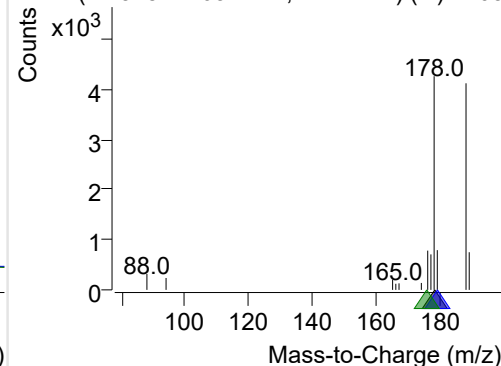
+ Selected Ion (178.0) 220302-PAHs-034.D



178.0, 179.0, 176.0

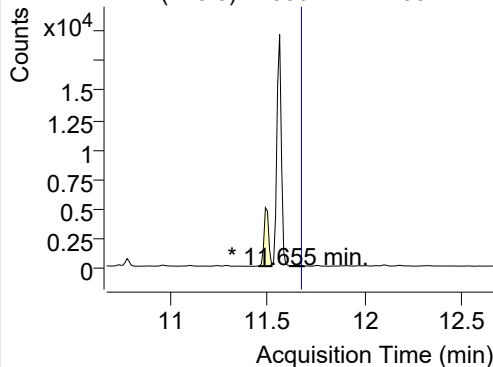


+ SIM (11.518-11.634 min, 12 scans) (**) 2203

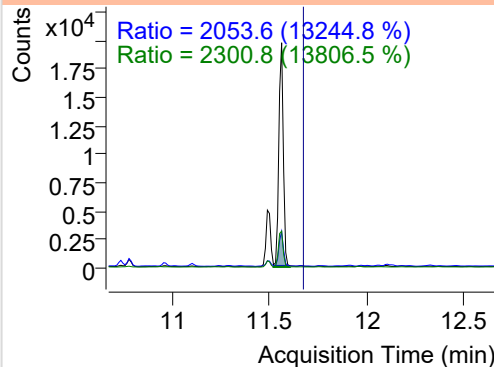


Anthracene

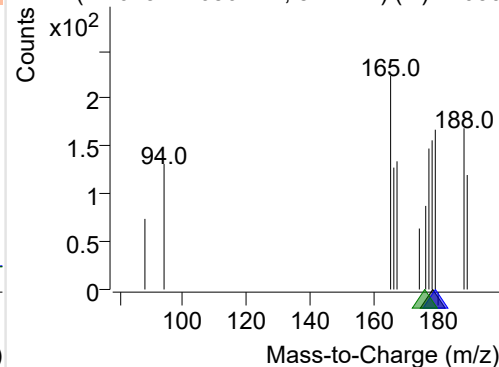
+ Selected Ion (178.0) 220302-PAHs-034.D



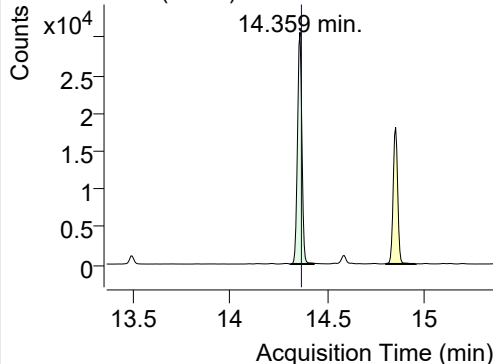
178.0, 179.0, 176.0



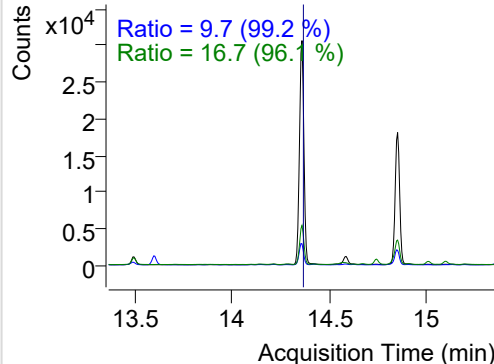
+ SIM (11.613-11.686 min, 8 scans) (**) 22030

**Fluoranthene**

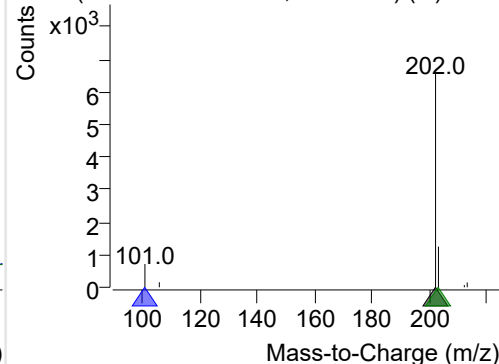
+ Selected Ion (202.0) 220302-PAHs-034.D



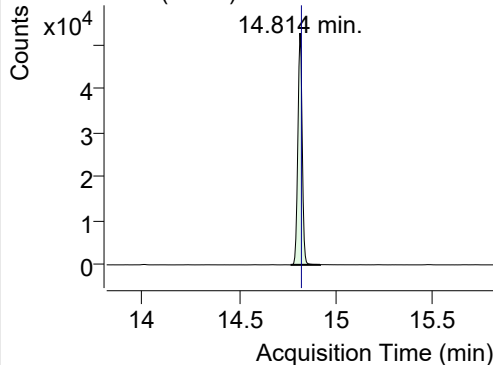
202.0, 101.0, 203.0



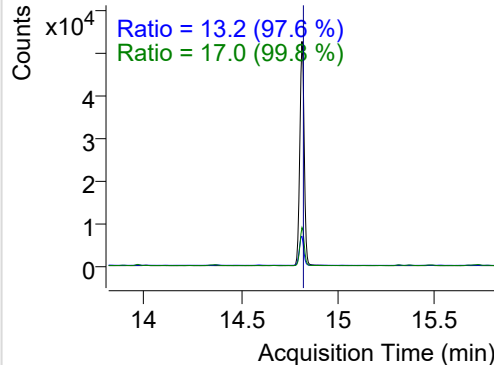
+ SIM (14.310-14.429 min, 23 scans) (**) 2203

**LSS-D10-Pyrene**

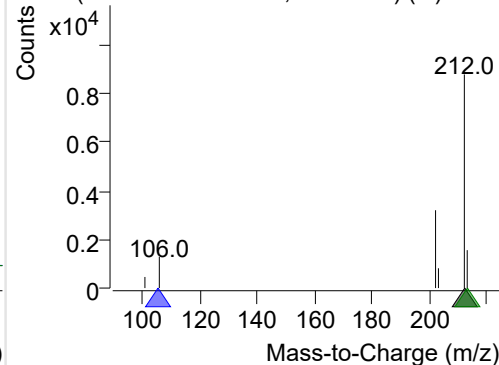
+ Selected Ion (212.0) 220302-PAHs-034.D



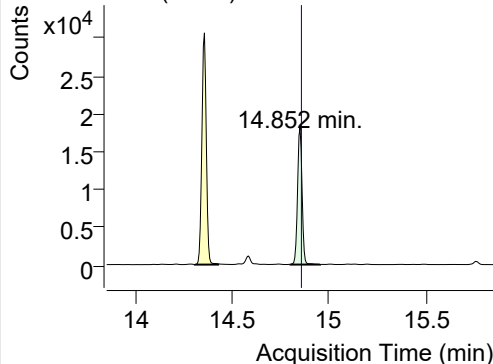
212.0, 106.0, 213.0



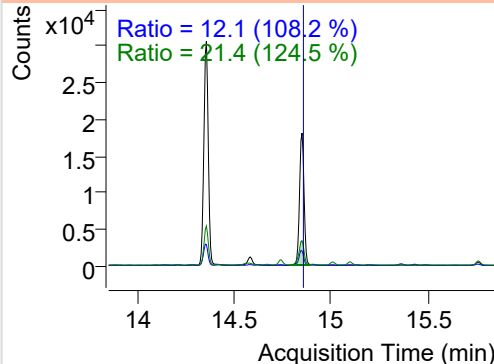
+ SIM (14.765-14.917 min, 29 scans) (**) 2203

**Pyrene**

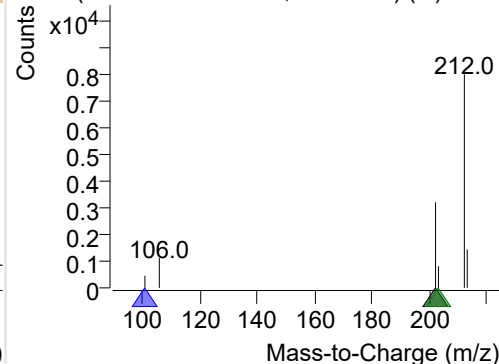
+ Selected Ion (202.0) 220302-PAHs-034.D



202.0, 101.0, 203.0

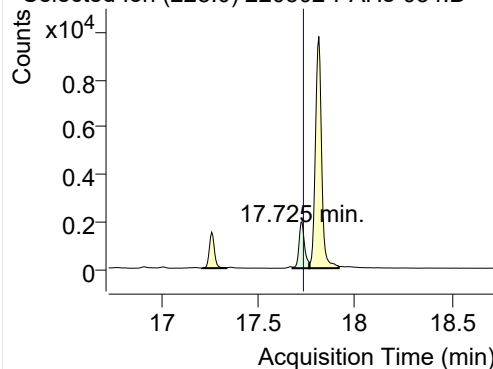


+ SIM (14.803-14.955 min, 29 scans) (**) 2203

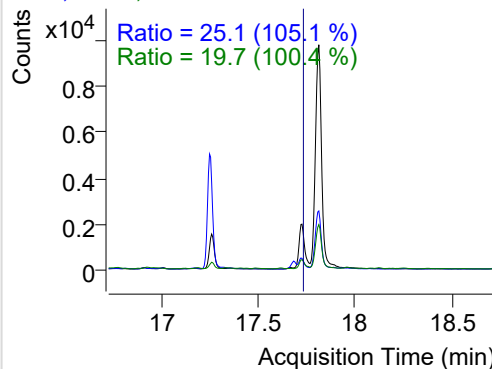


Benz(a)anthracene

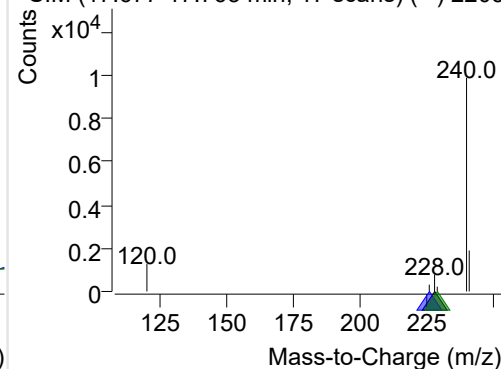
+ Selected Ion (228.0) 220302-PAHs-034.D



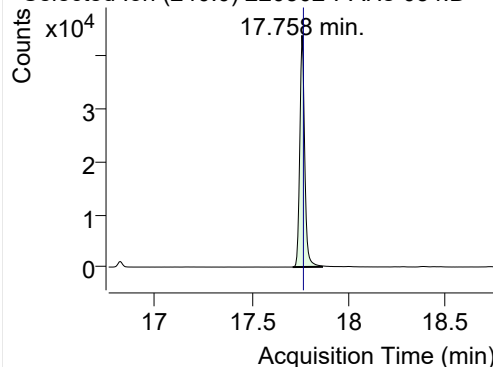
228.0, 226.0, 229.0



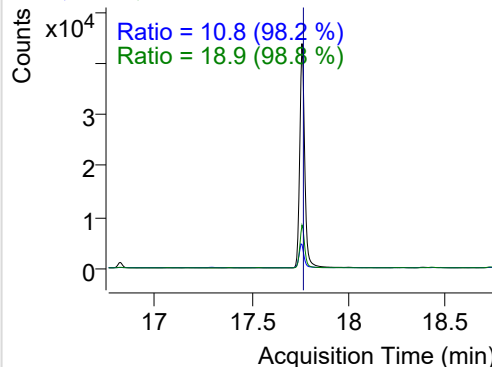
+ SIM (17.677-17.763 min, 17 scans) (**) 2203

**IS-D12-Chrysene**

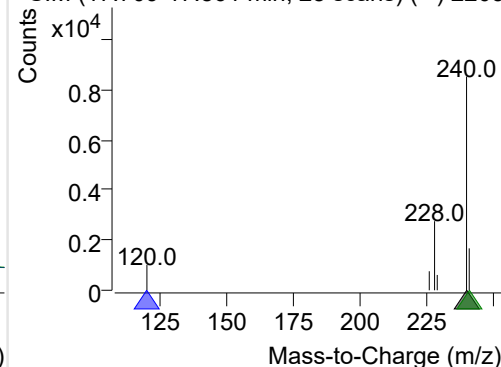
+ Selected Ion (240.0) 220302-PAHs-034.D



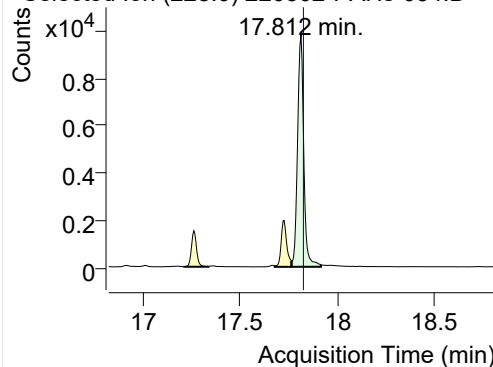
240.0, 120.0, 241.0



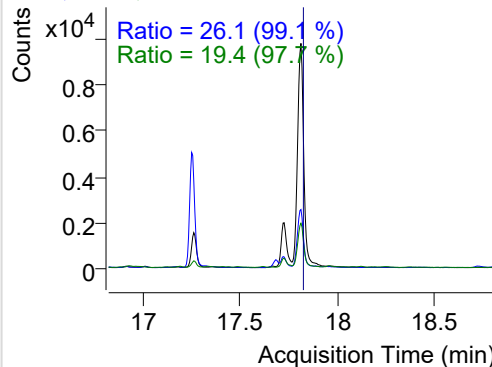
+ SIM (17.709-17.861 min, 28 scans) (**) 2203

**Chrysene**

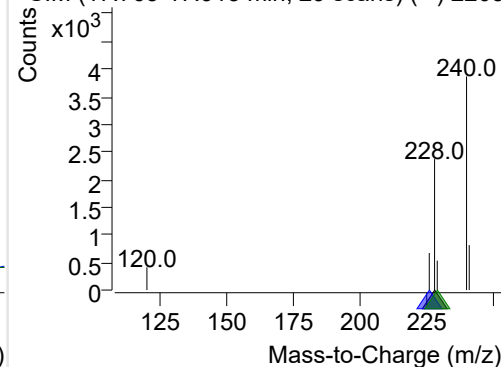
+ Selected Ion (228.0) 220302-PAHs-034.D



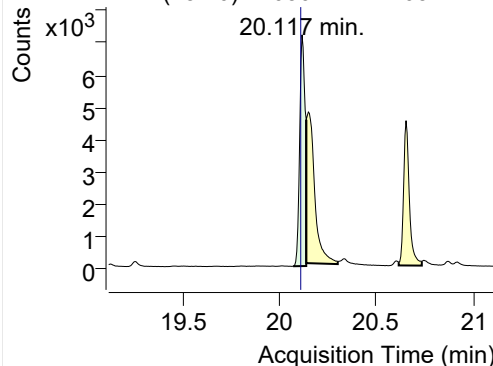
228.0, 226.0, 229.0



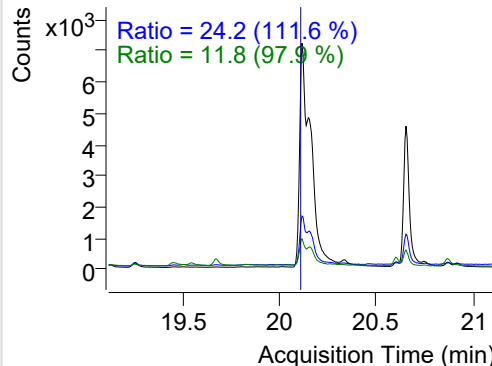
+ SIM (17.763-17.915 min, 29 scans) (**) 2203

**Benzo(b)fluoranthene**

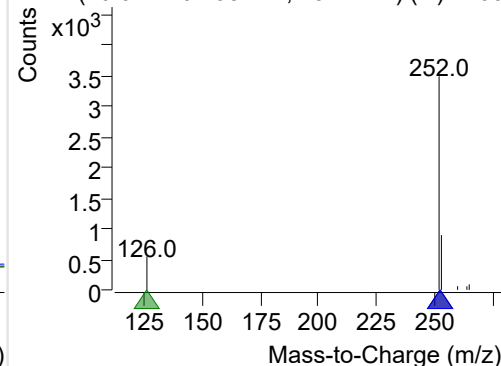
+ Selected Ion (252.0) 220302-PAHs-034.D



252.0, 253.0, 126.0

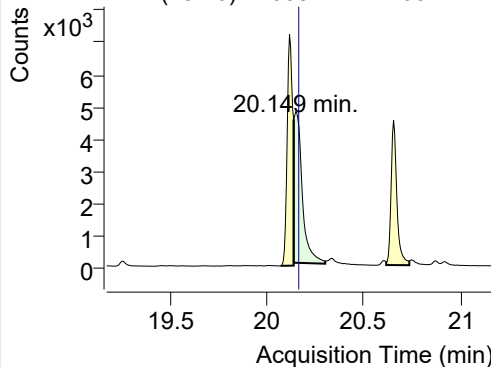


+ SIM (20.071-20.138 min, 13 scans) (**) 2203

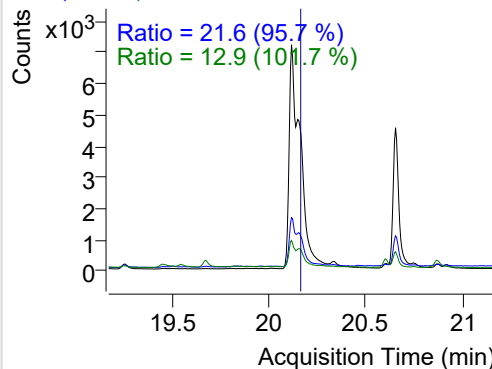


Benzo(k)fluoranthene

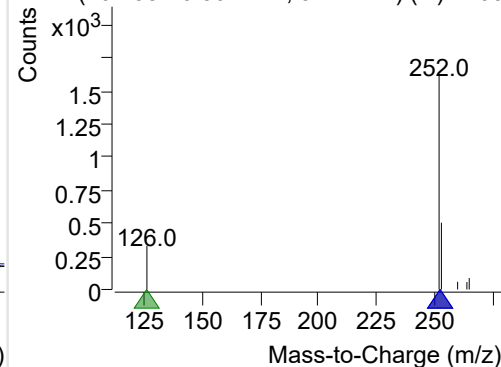
+ Selected Ion (252.0) 220302-PAHs-034.D



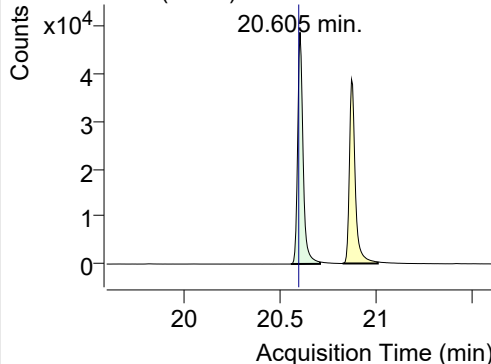
252.0, 253.0, 126.0



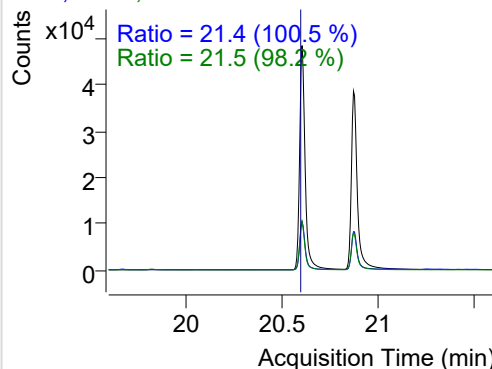
+ SIM (20.138-20.301 min, 31 scans) (**) 2203

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

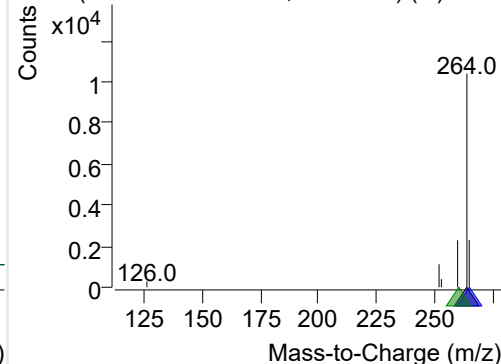
+ Selected Ion (264.0) 220302-PAHs-034.D



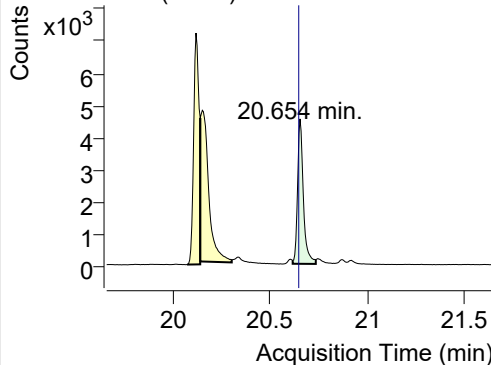
264.0, 265.0, 260.0



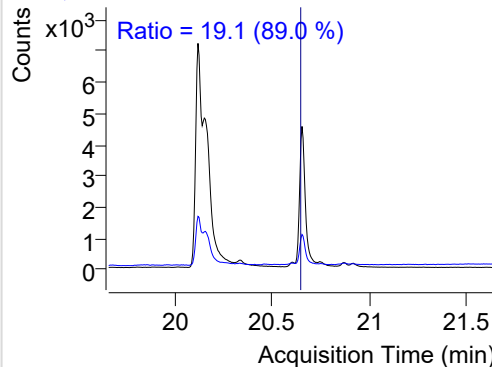
+ SIM (20.558-20.708 min, 28 scans) (**) 2203

**Benzo(e)pyrene**

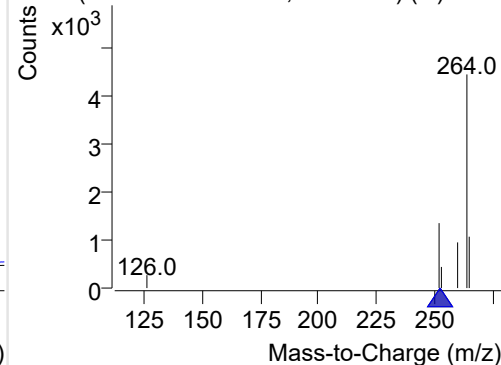
+ Selected Ion (252.0) 220302-PAHs-034.D



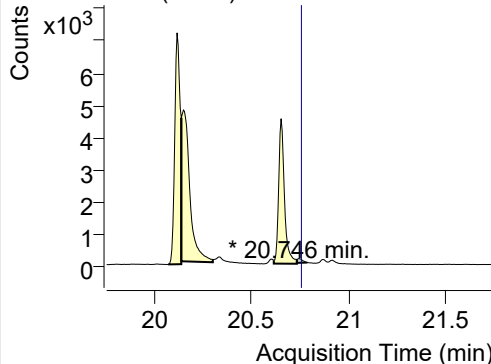
252.0, 253.0



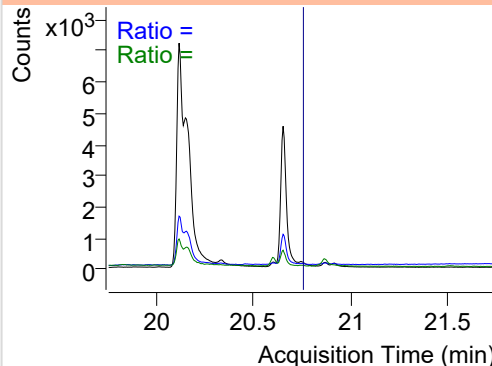
+ SIM (20.616-20.735 min, 23 scans) (**) 2203

**Benzo(a)pyrene**

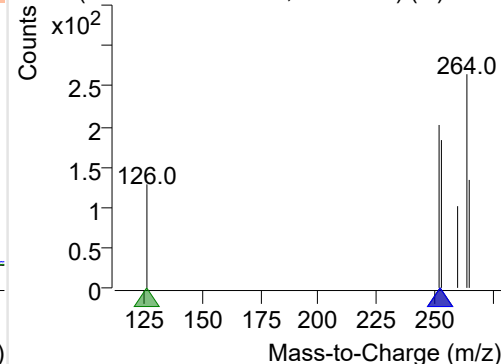
+ Selected Ion (252.0) 220302-PAHs-034.D



252.0, 253.0, 126.0

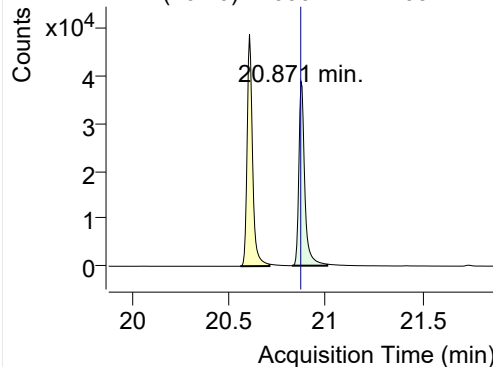


+ SIM (20.735-20.789 min, 11 scans) (**) 2203

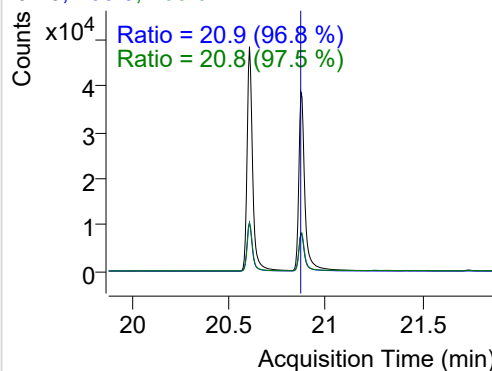


IS-D12-Perylene

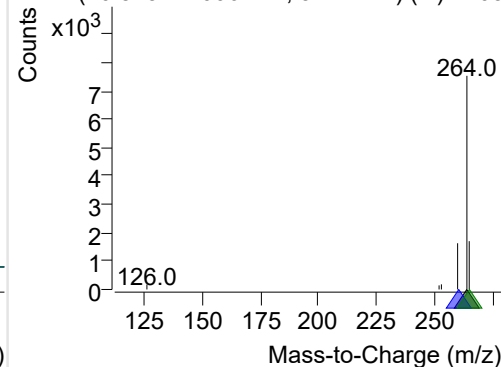
+ Selected Ion (264.0) 220302-PAHs-034.D



264.0, 260.0, 265.0

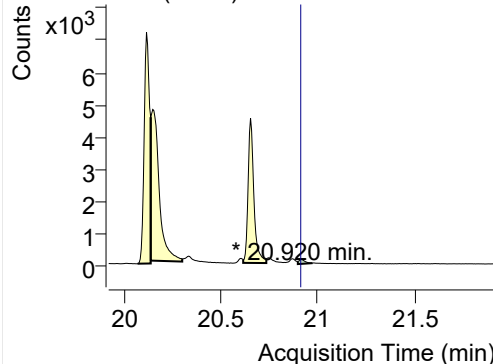


+ SIM (20.825-21.006 min, 34 scans) (**) 2203

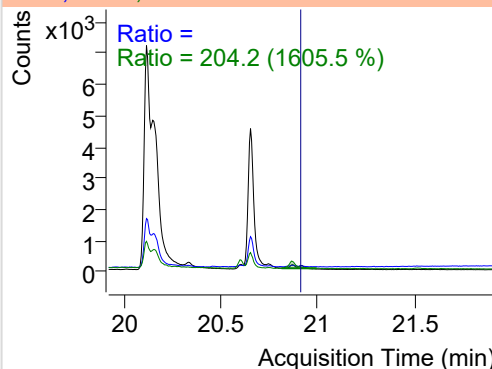


Perylene

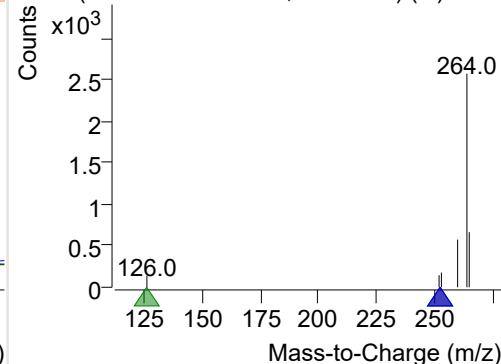
+ Selected Ion (252.0) 220302-PAHs-034.D



252.0, 253.0, 126.0

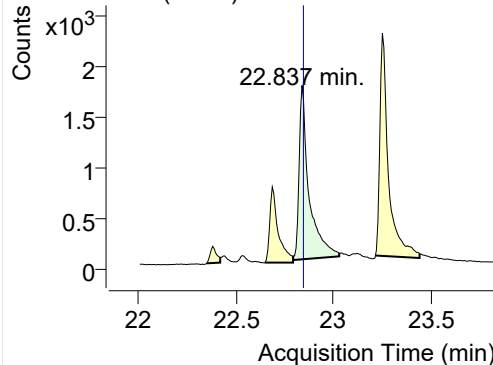


+ SIM (20.898-20.974 min, 15 scans) (**) 2203

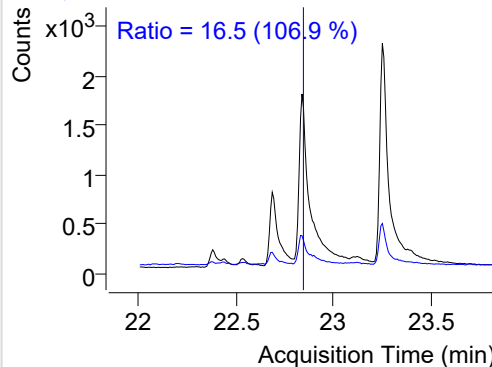


Indeno(1,2,3-c,d)pyrene

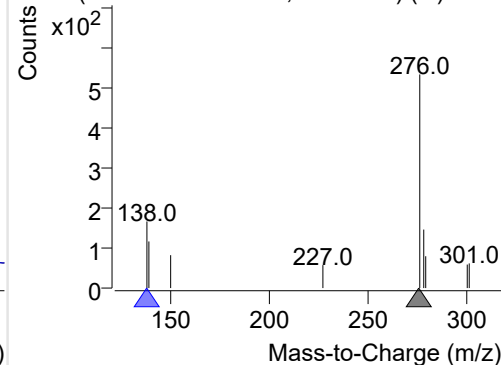
+ Selected Ion (276.0) 220302-PAHs-034.D



276.0, 138.0

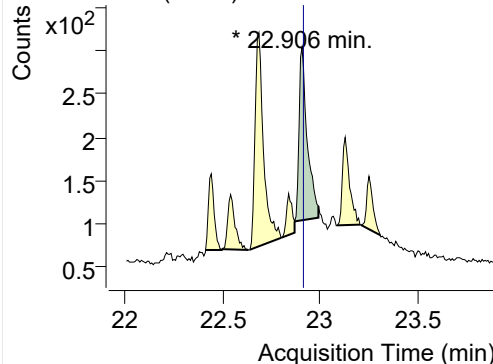


+ SIM (22.791-23.028 min, 32 scans) (**) 2203

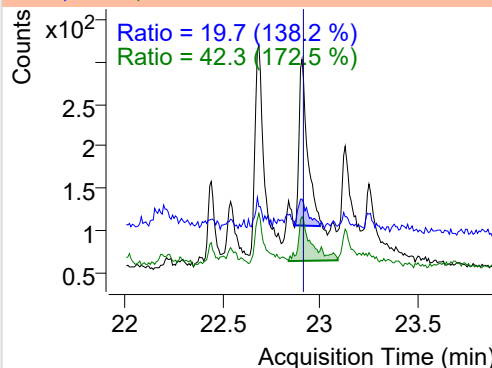


Dibenz(a,h)anthracene

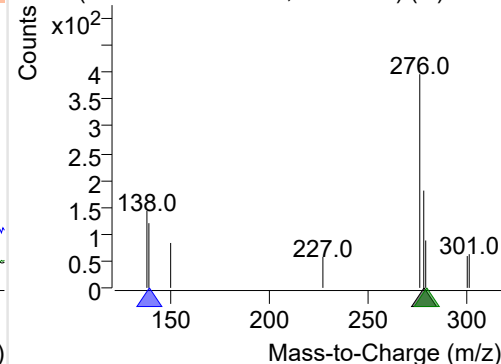
+ Selected Ion (278.0) 220302-PAHs-034.D



278.0, 139.0, 279.0

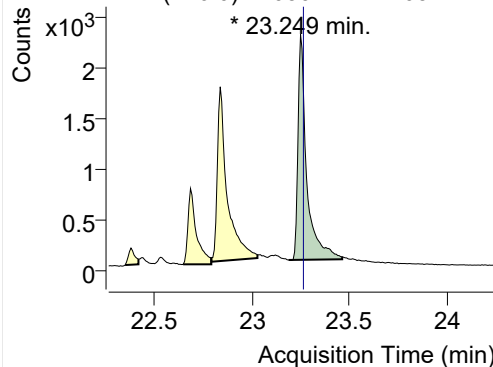


+ SIM (22.867-22.989 min, 17 scans) (**) 2203

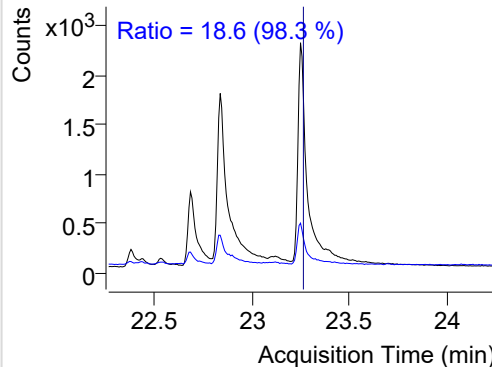


Benzo(g,h,i)perylene

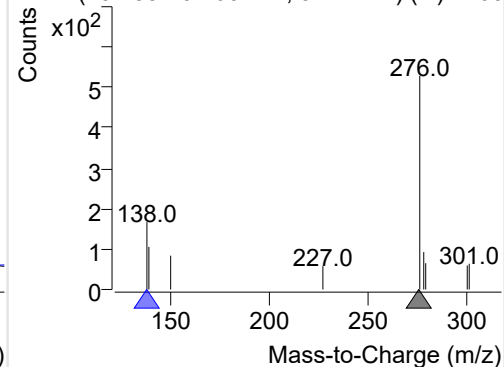
+ Selected Ion (276.0) 220302-PAHs-034.D



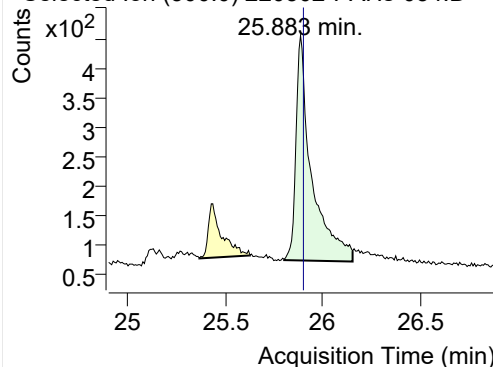
276.0, 138.0



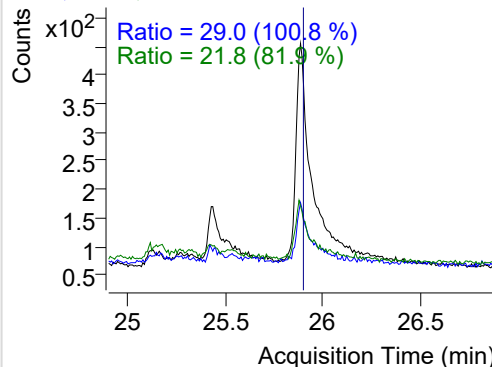
+ SIM (23.188-23.463 min, 37 scans) (**) 2203

**Coronene**

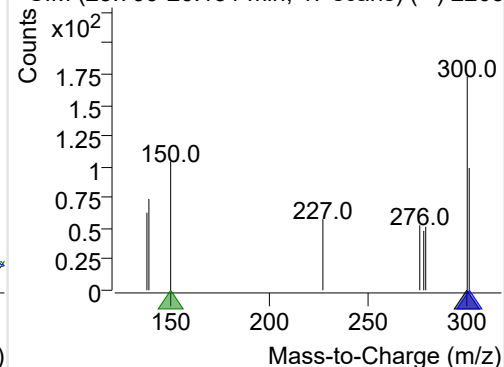
+ Selected Ion (300.0) 220302-PAHs-034.D



300.0, 301.0, 150.0



+ SIM (25.799-26.151 min, 47 scans) (**) 2203



Quantitative Analysis Sample Based Report

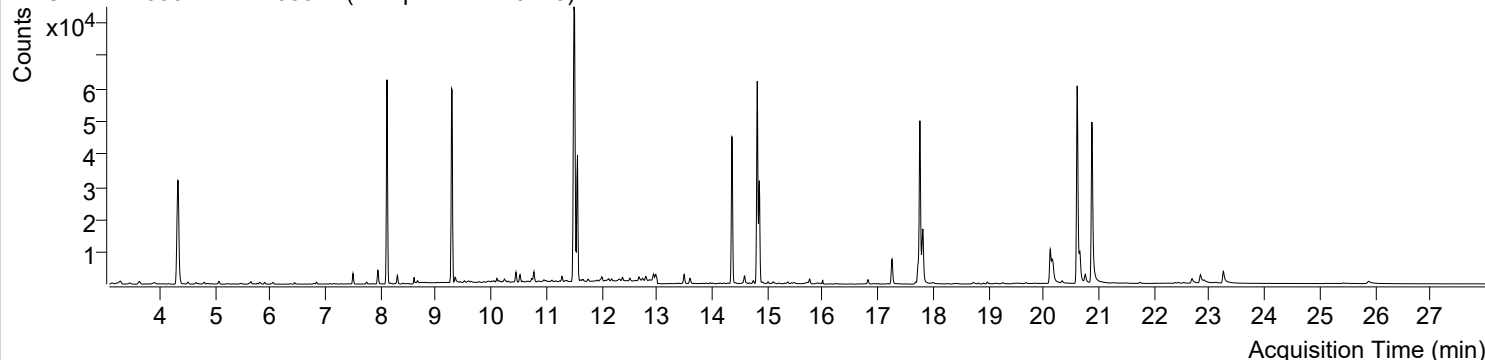


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 3:27:24	Data File	220302-PAHs-035.D
Type	Sample	Name	Sample-PM-220223
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

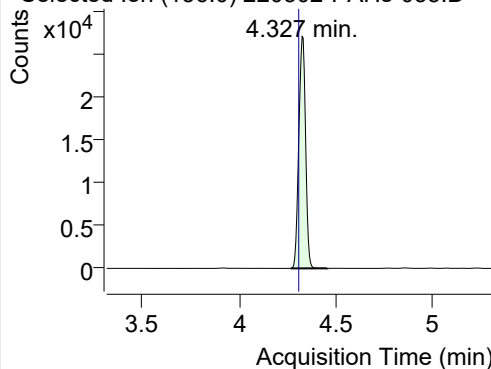
+ TIC SIM 220302-PAHs-035.D (Sample-PM-220223)



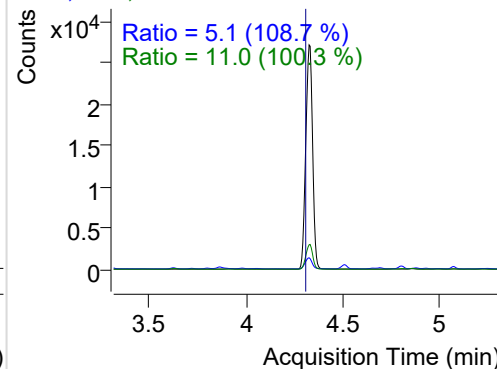
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.327	136.0	65792	27128.87	ND ng/ml	11.0
Naphthalene	4.365	128.0	1897	779.48	ND ng/ml	39.6
Acenaphthylene	7.745	152.0	693	439.22	ND ng/ml	17.4
IS-D10-Acenaphthene	8.112	164.0	44240	30541.42	ND ng/ml	90.7
Acenaphthene	8.177	154.0	187	79.77	ND ng/ml	
LSS-D10-Fluorene	9.292	176.0	46814	28639.69	ND ng/ml	86.7
Fluorene	9.344	166.0	1049	684.76	ND ng/ml	103.9
IS-D10-Phenanthrene	11.508	188.0	82199	55402.23	ND ng/ml	15.2
Phenanthrene	11.560	178.0	40050	26107.02	ND ng/ml	16.8
Anthracene	11.665	178.0	731	414.47	ND ng/ml	
Fluoranthene	14.354	202.0	56692	34980.34	ND ng/ml	17.4
LSS-D10-Pyrene	14.814	212.0	72060	47062.20	ND ng/ml	17.2
Pyrene	14.852	202.0	37667	23778.37	ND ng/ml	20.4
Benz(a)anthracene	17.725	228.0	7772	3940.38	ND ng/ml	24.0
IS-D12-Chrysene	17.758	240.0	67348	37844.67	ND ng/ml	18.9
Chrysene	17.812	228.0	23732	10787.67	ND ng/ml	26.4
Benzo(b)fluoranthene	20.117	252.0	14859	7695.97	ND ng/ml	21.5
Benzo(k)fluoranthene	20.149	252.0	16505	5477.00	ND ng/ml	22.8
SS-D12-Benzo(e)pyrene	20.605	264.0	81796	41696.09	ND ng/ml	21.5
Benzo(e)pyrene	20.654	252.0	10660	5263.69	ND ng/ml	21.6
Benzo(a)pyrene	20.751	252.0	4308	1779.06	ND ng/ml	20.9
IS-D12-Perylene	20.871	264.0	71321	34080.00	ND ng/ml	21.2
Perylene	20.920	252.0	547	246.16	ND ng/ml	
Indeno(1,2,3-c,d)pytene	22.837	276.0	7844	2106.32	ND ng/ml	16.5
Dibenz(a,h)anthracene	22.905	278.0	953	262.96	ND ng/ml	29.4
Benzo(g,h,i)perylene	23.249	276.0	9579	2905.51	ND ng/ml	16.8
Coronene	25.883	300.0	2677	448.50	ND ng/ml	25.6

IS-D8-Naphthalene

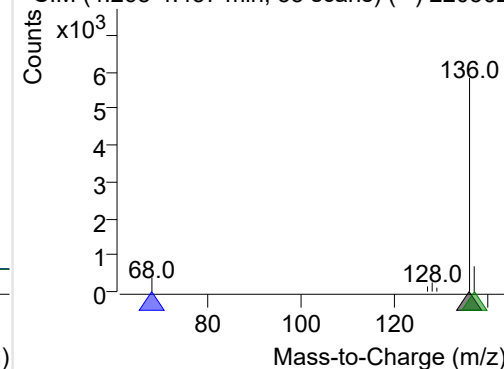
+ Selected Ion (136.0) 220302-PAHs-035.D



136.0, 68.0, 137.0

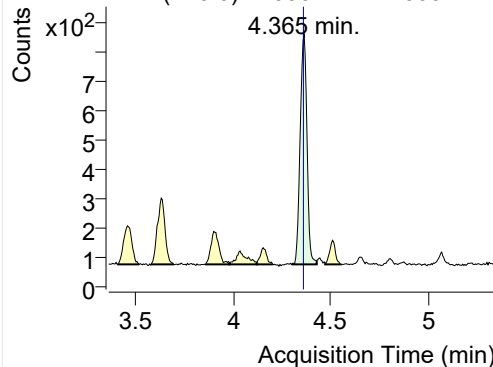


+ SIM (4.268-4.457 min, 35 scans) (**) 220302

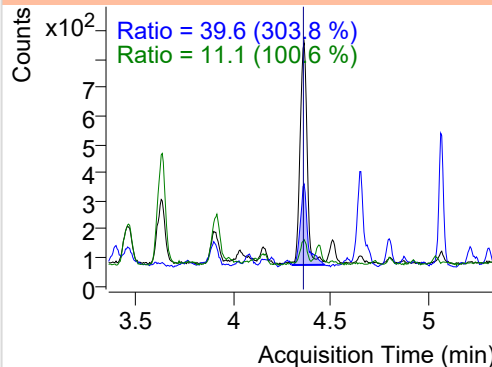


Naphthalene

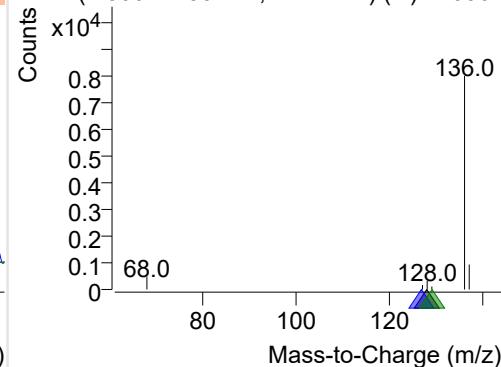
+ Selected Ion (128.0) 220302-PAHs-035.D



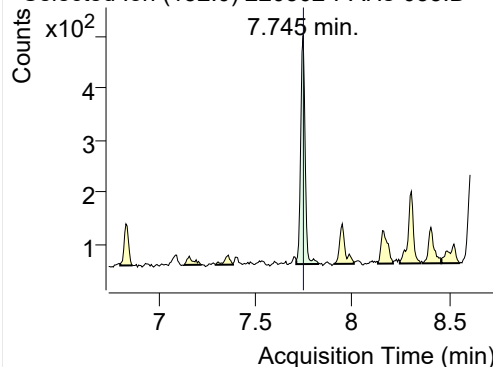
128.0, 127.0, 129.0



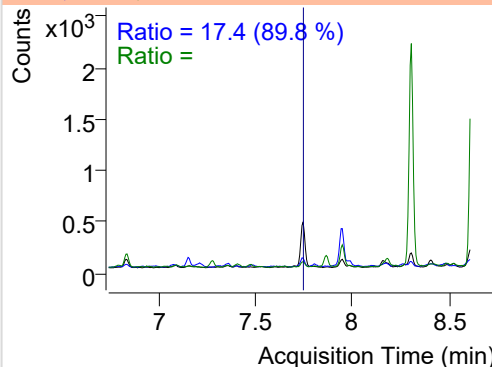
+ SIM (4.300-4.430 min, 24 scans) (**) 220302

**Acenaphthylene**

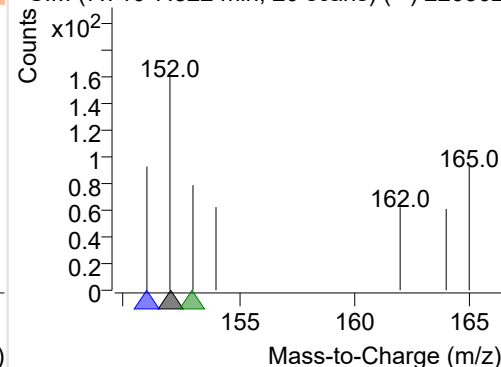
+ Selected Ion (152.0) 220302-PAHs-035.D



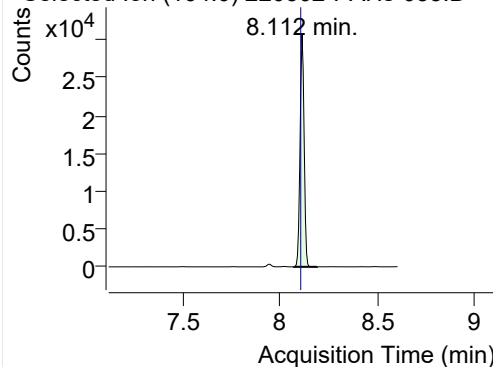
152.0, 151.0, 153.0



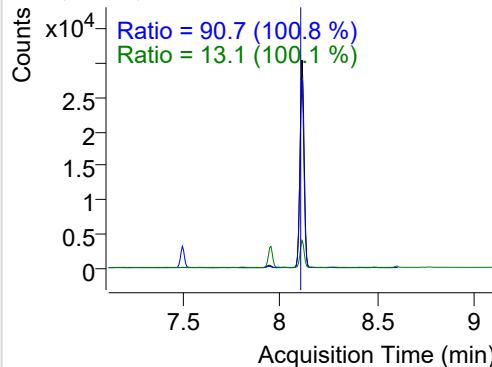
+ SIM (7.710-7.822 min, 20 scans) (**) 220302

**IS-D10-Acenaphthene**

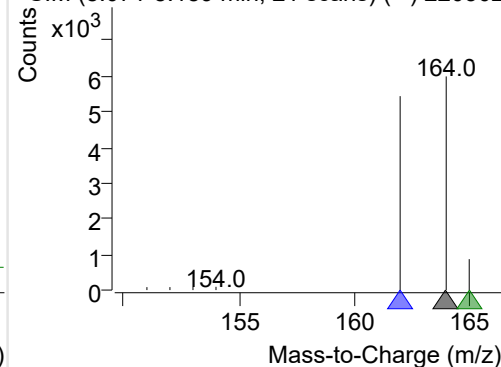
+ Selected Ion (164.0) 220302-PAHs-035.D



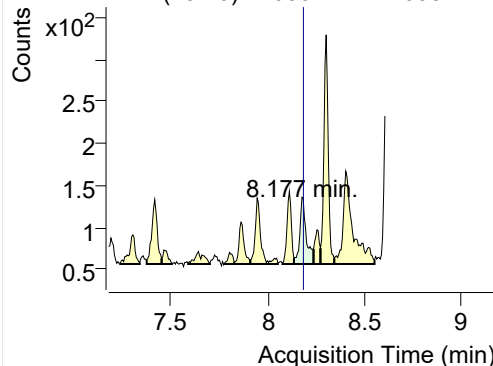
164.0, 162.0, 165.0



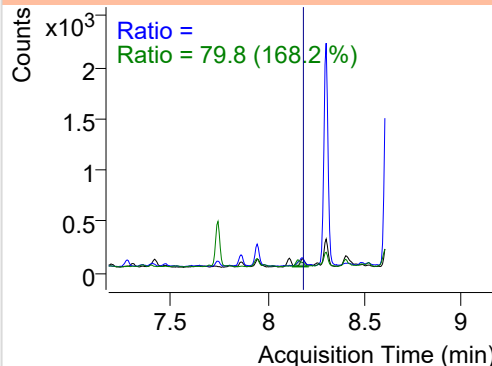
+ SIM (8.071-8.189 min, 21 scans) (**) 220302

**Acenaphthene**

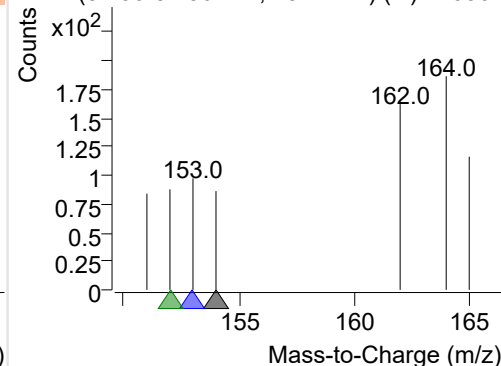
+ Selected Ion (154.0) 220302-PAHs-035.D



154.0, 153.0, 152.0

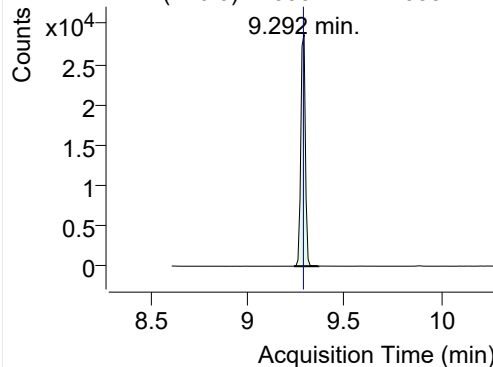


+ SIM (8.136-8.236 min, 18 scans) (**) 220302

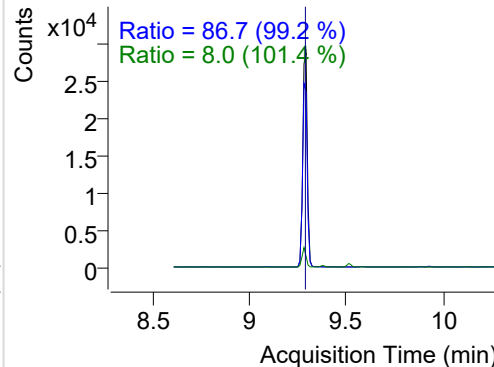


LSS-D10-Fluorene

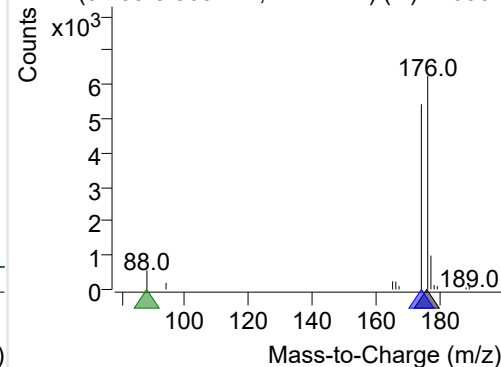
+ Selected Ion (176.0) 220302-PAHs-035.D



176.0, 174.0, 88.0

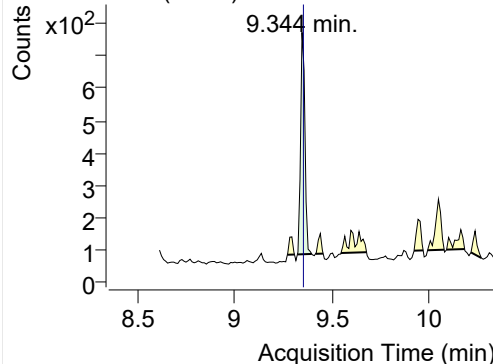


+ SIM (9.239-9.365 min, 12 scans) (**) 220302

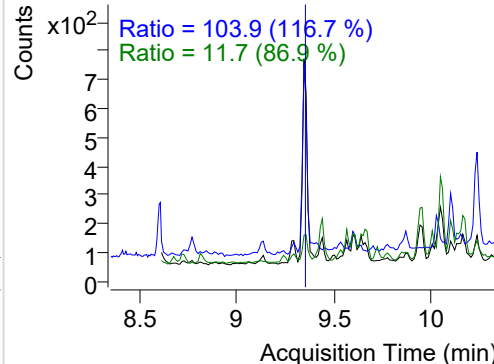


Fluorene

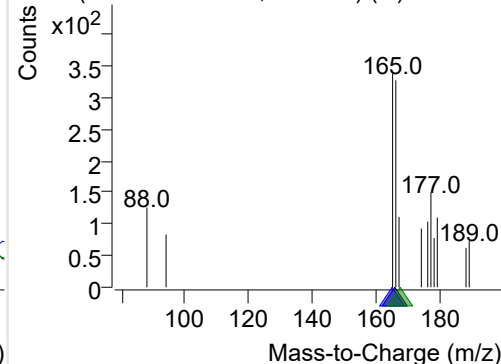
+ Selected Ion (166.0) 220302-PAHs-035.D



166.0, 165.0, 167.0

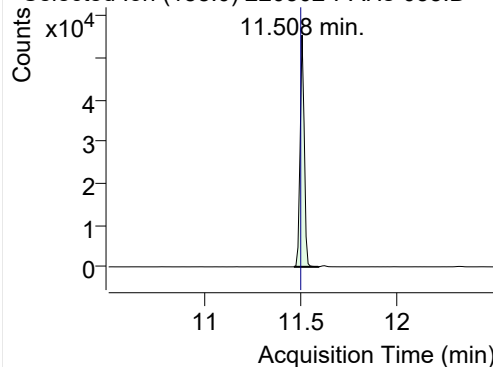


+ SIM (9.320-9.395 min, 7 scans) (**) 220302-I

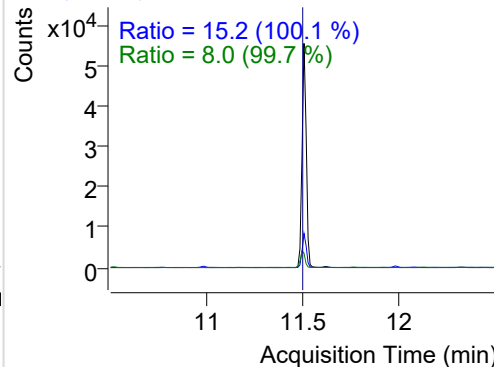


IS-D10-Phenanthrene

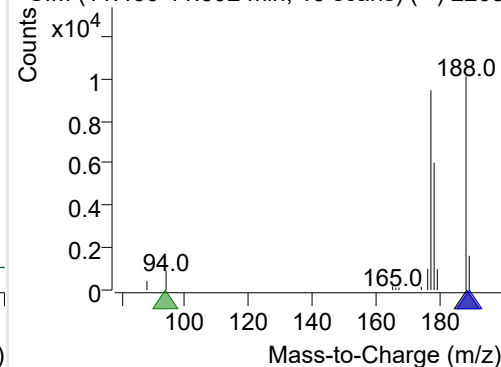
+ Selected Ion (188.0) 220302-PAHs-035.D



188.0, 189.0, 94.0

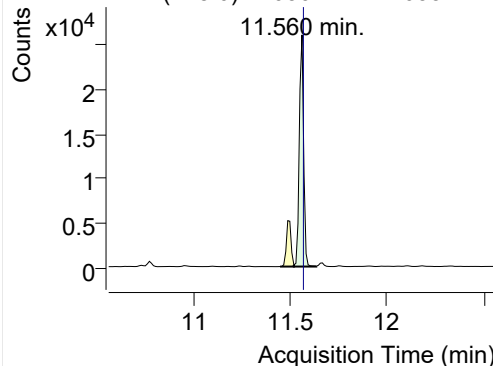


+ SIM (11.466-11.592 min, 13 scans) (**) 2203

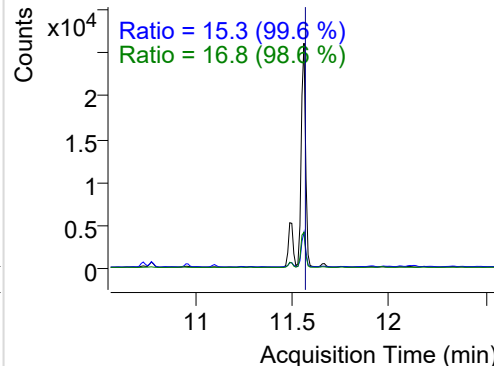


Phenanthrene

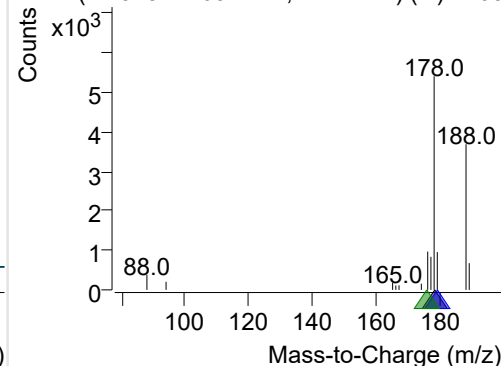
+ Selected Ion (178.0) 220302-PAHs-035.D



178.0, 179.0, 176.0

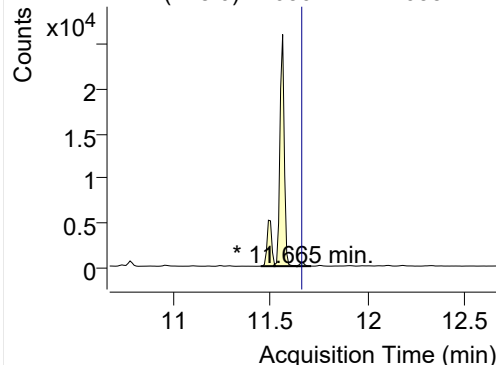


+ SIM (11.518-11.634 min, 12 scans) (**) 2203

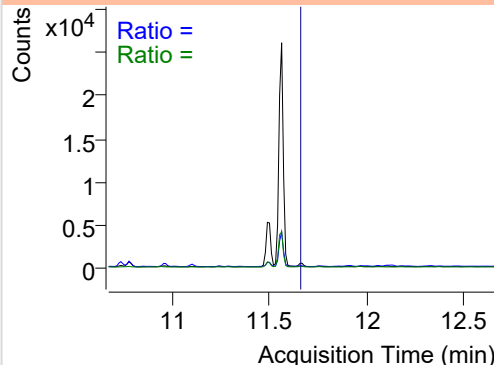


Anthracene

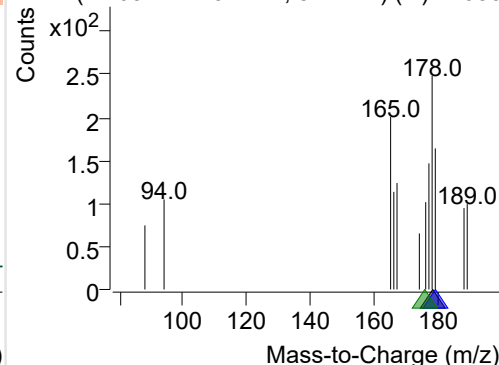
+ Selected Ion (178.0) 220302-PAHs-035.D



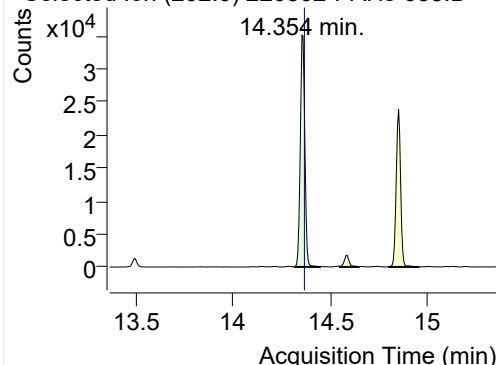
178.0, 179.0, 176.0



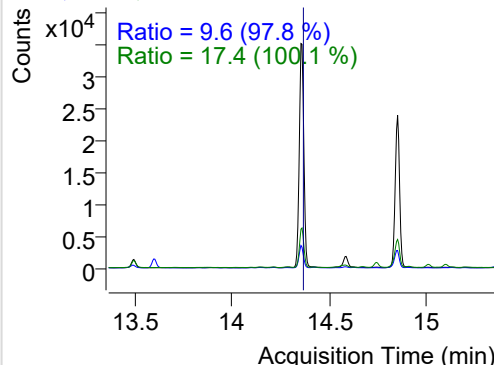
+ SIM (11.634-11.707 min, 8 scans) (**) 22030

**Fluoranthene**

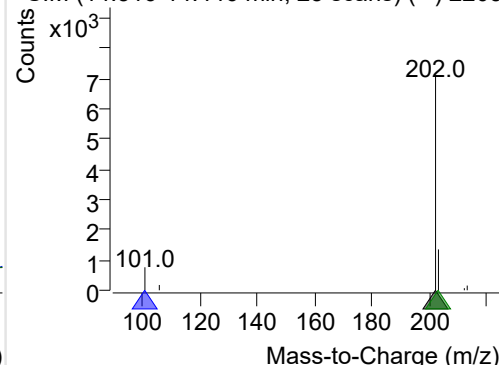
+ Selected Ion (202.0) 220302-PAHs-035.D



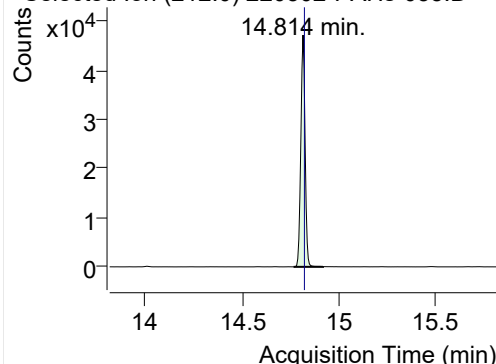
202.0, 101.0, 203.0



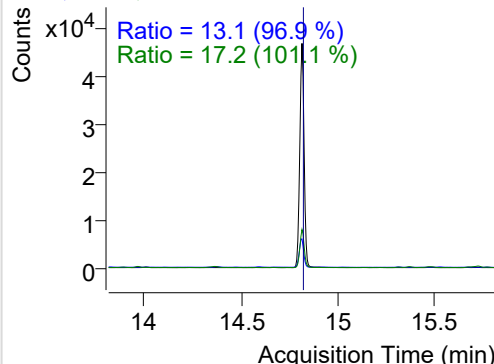
+ SIM (14.316-14.446 min, 25 scans) (**) 2203

**LSS-D10-Pyrene**

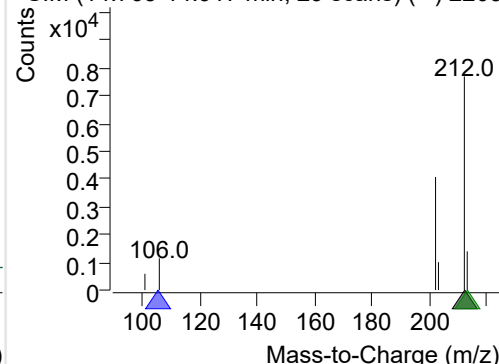
+ Selected Ion (212.0) 220302-PAHs-035.D



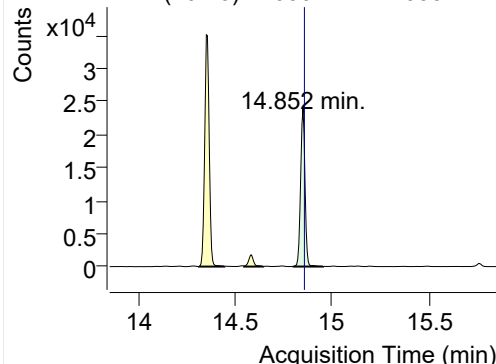
212.0, 106.0, 213.0



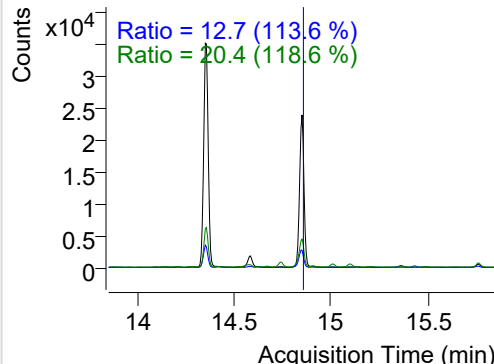
+ SIM (14.765-14.917 min, 29 scans) (**) 2203

**Pyrene**

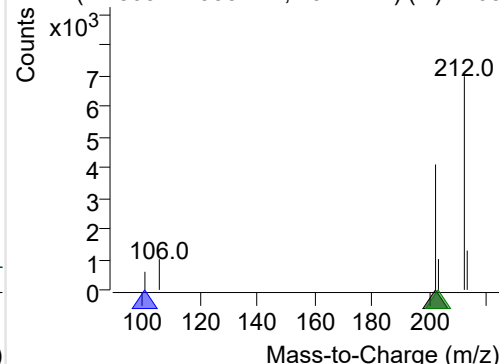
+ Selected Ion (202.0) 220302-PAHs-035.D



202.0, 101.0, 203.0

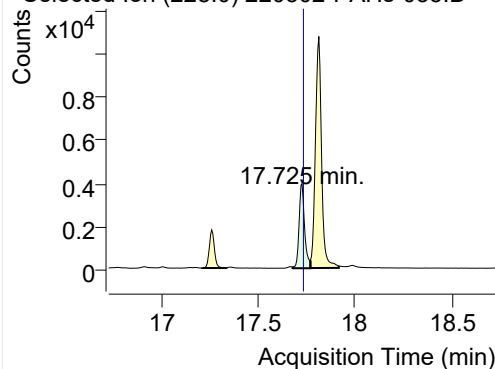


+ SIM (14.803-14.955 min, 29 scans) (**) 2203

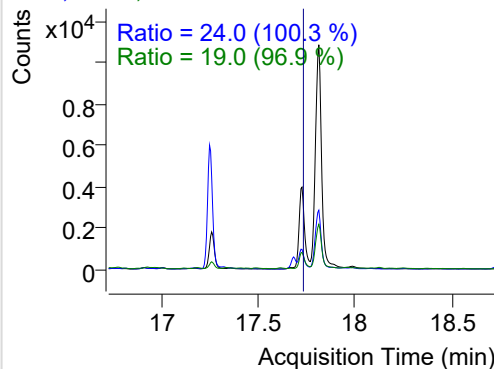


Benz(a)anthracene

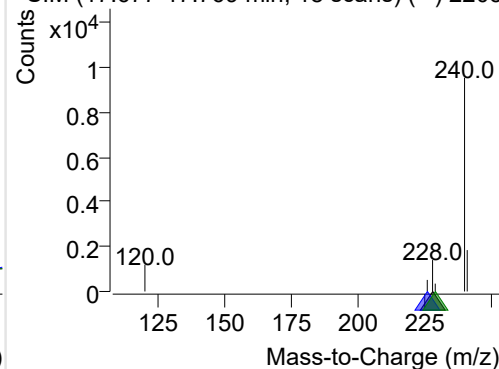
+ Selected Ion (228.0) 220302-PAHs-035.D



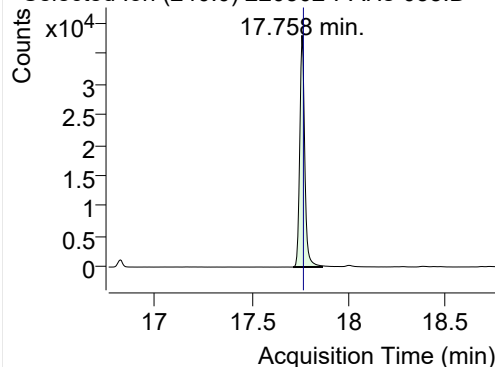
228.0, 226.0, 229.0



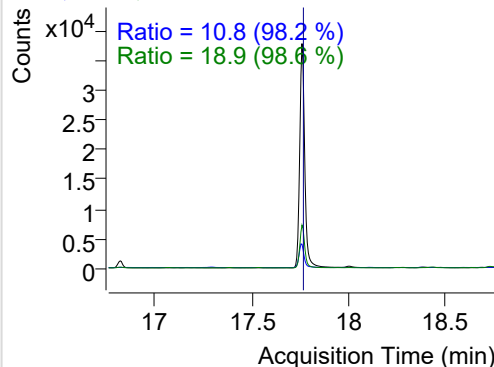
+ SIM (17.677-17.769 min, 18 scans) (**) 2203

**IS-D12-Chrysene**

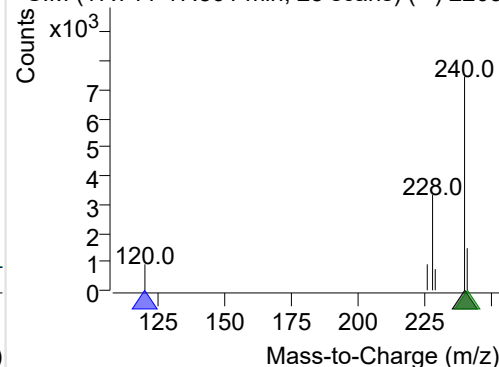
+ Selected Ion (240.0) 220302-PAHs-035.D



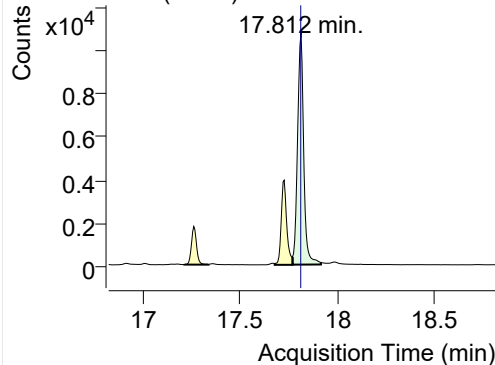
240.0, 120.0, 241.0



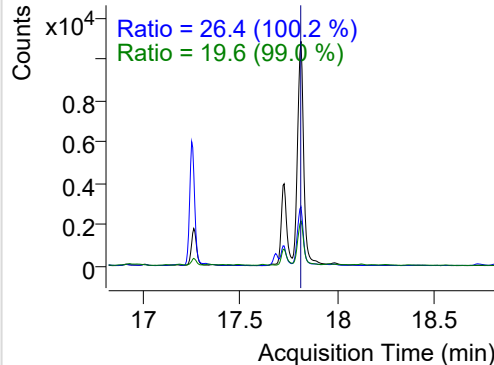
+ SIM (17.711-17.861 min, 28 scans) (**) 2203

**Chrysene**

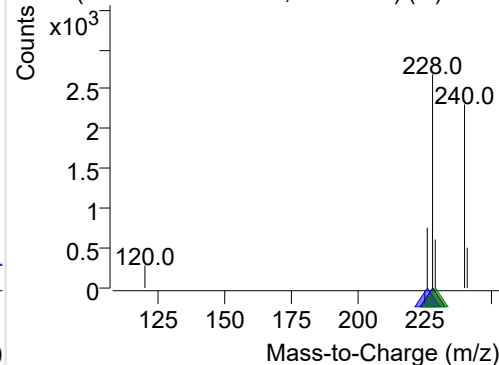
+ Selected Ion (228.0) 220302-PAHs-035.D



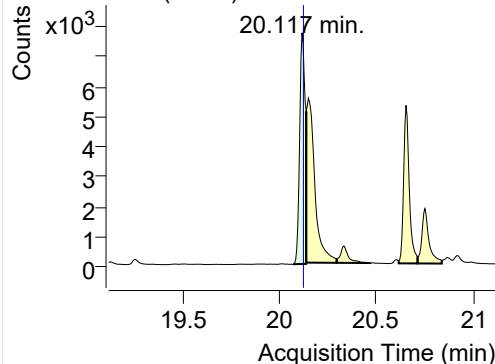
228.0, 226.0, 229.0



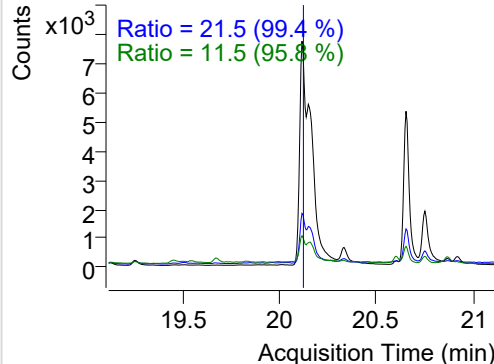
+ SIM (17.769-17.915 min, 28 scans) (**) 2203

**Benzo(b)fluoranthene**

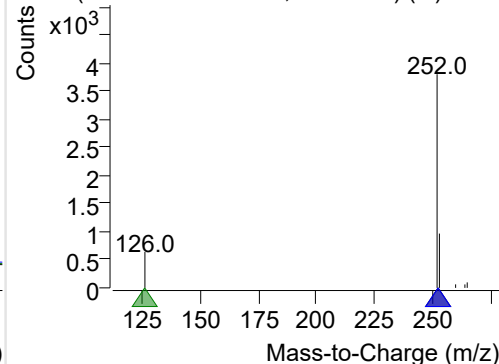
+ Selected Ion (252.0) 220302-PAHs-035.D



252.0, 253.0, 126.0



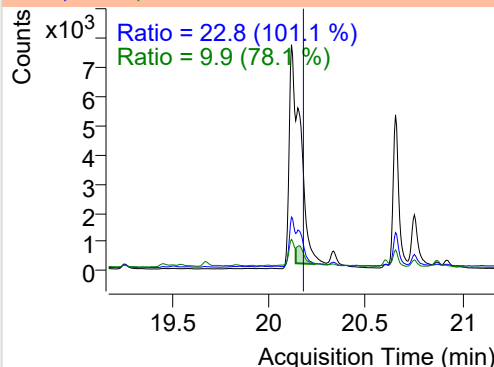
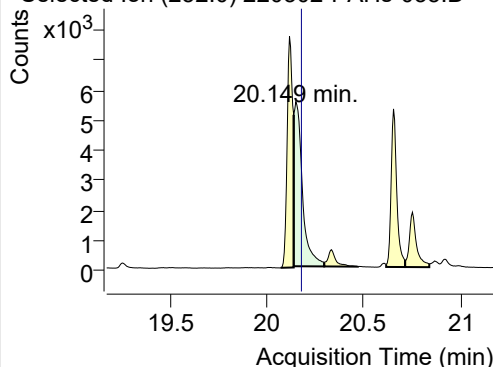
+ SIM (20.071-20.138 min, 13 scans) (**) 2203



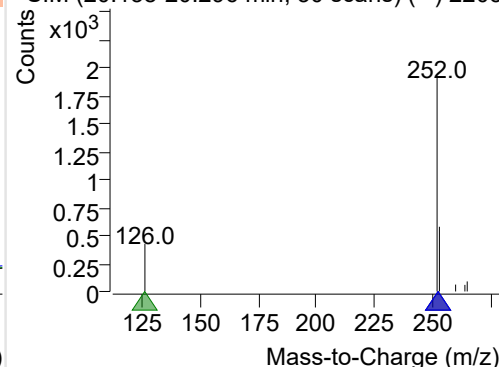
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-035.D

252.0, 253.0, 126.0

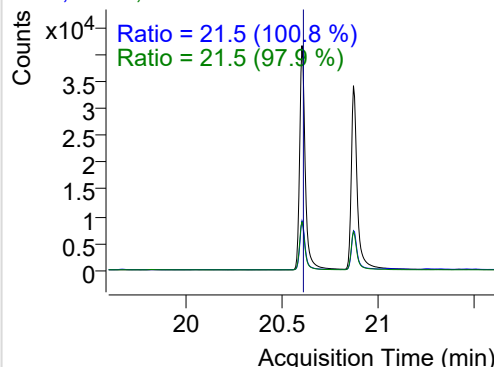
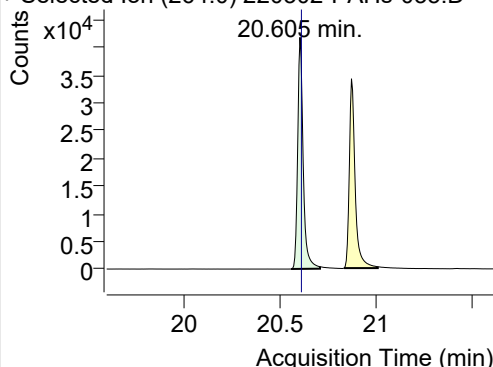


+ SIM (20.138-20.296 min, 30 scans) (**) 2203

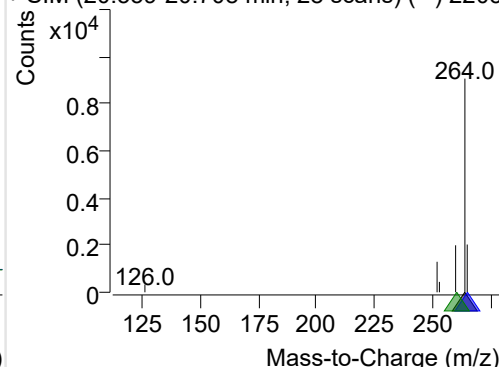
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-035.D

264.0, 265.0, 260.0

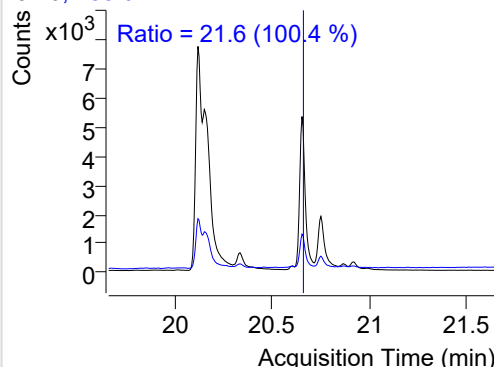
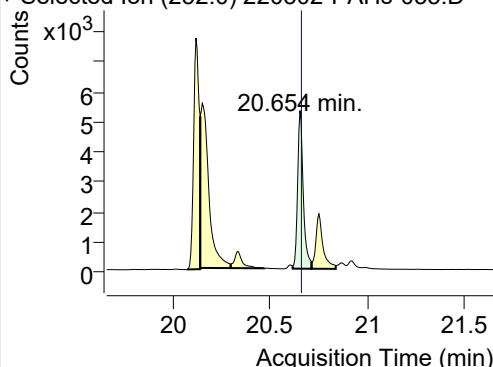


+ SIM (20.559-20.708 min, 28 scans) (**) 2203

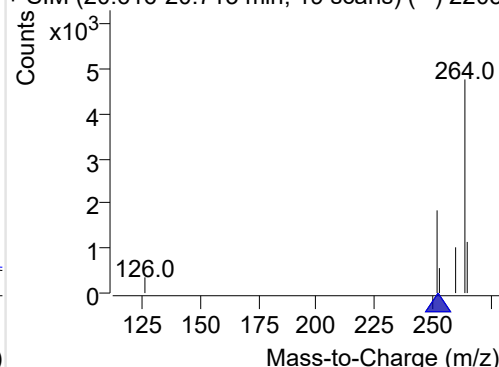
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-035.D

252.0, 253.0

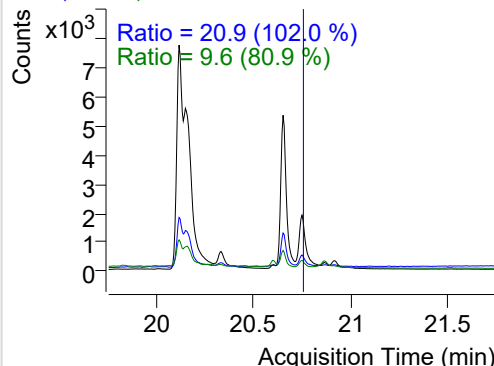
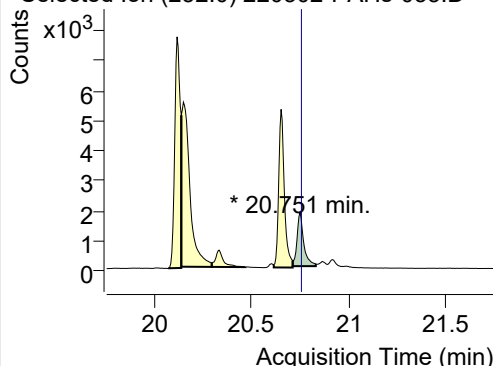


+ SIM (20.616-20.713 min, 19 scans) (**) 2203

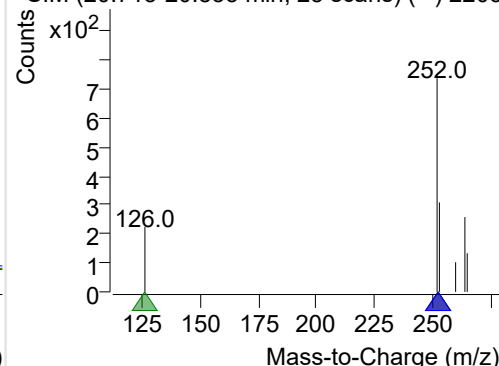
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-035.D

252.0, 253.0, 126.0

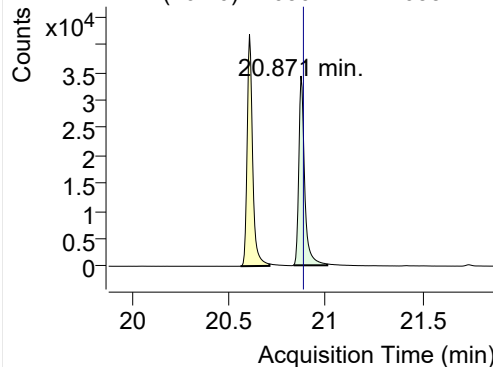


+ SIM (20.713-20.833 min, 23 scans) (**) 2203

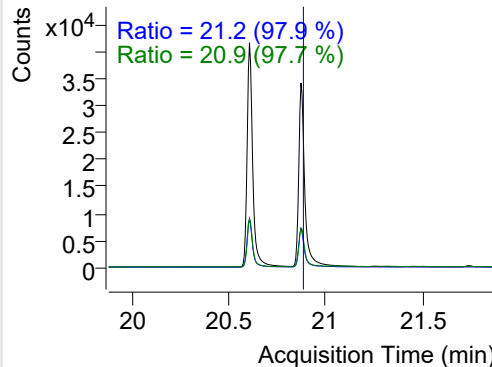


IS-D12-Perylene

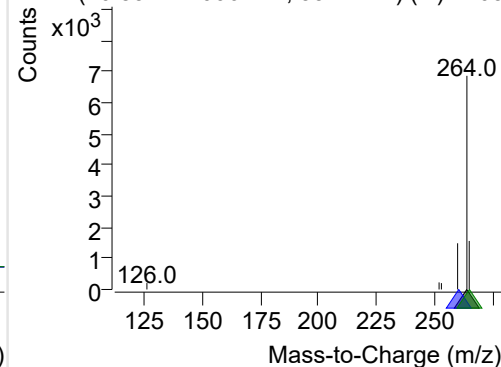
+ Selected Ion (264.0) 220302-PAHs-035.D



264.0, 260.0, 265.0

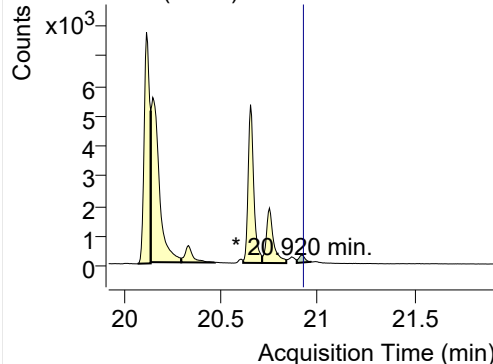


+ SIM (20.832-21.006 min, 33 scans) (**) 2203

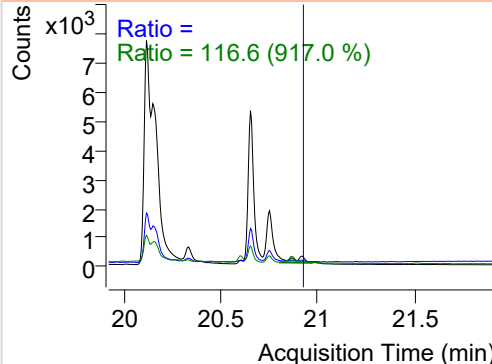


Perylene

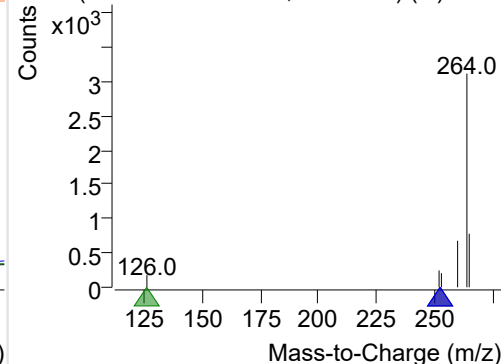
+ Selected Ion (252.0) 220302-PAHs-035.D



252.0, 253.0, 126.0

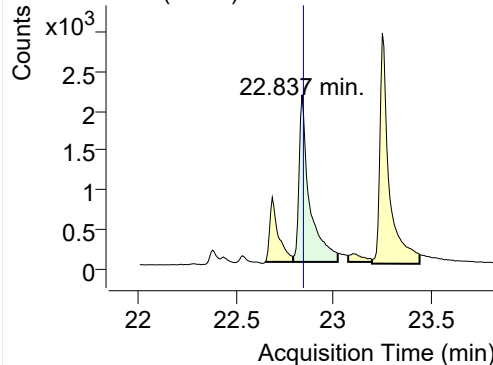


+ SIM (20.892-20.968 min, 15 scans) (**) 2203

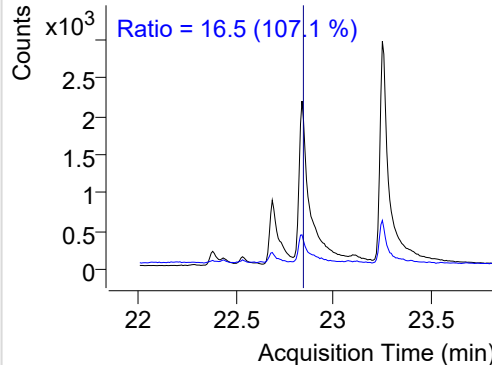


Indeno(1,2,3-c,d)pyrene

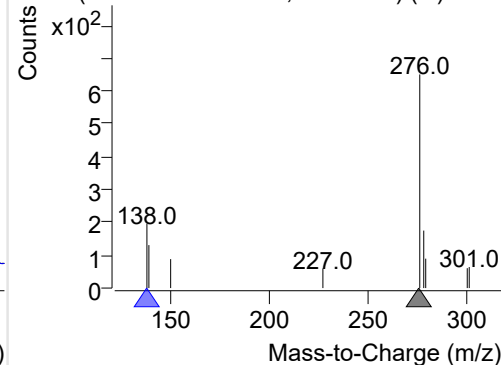
+ Selected Ion (276.0) 220302-PAHs-035.D



276.0, 138.0

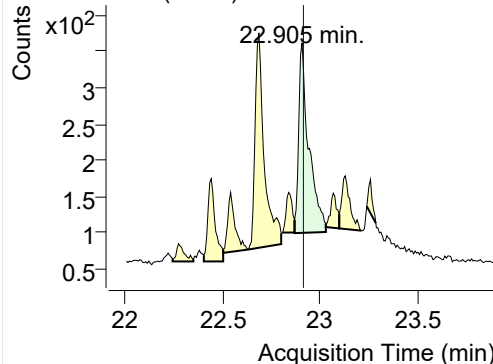


+ SIM (22.791-23.020 min, 31 scans) (**) 2203

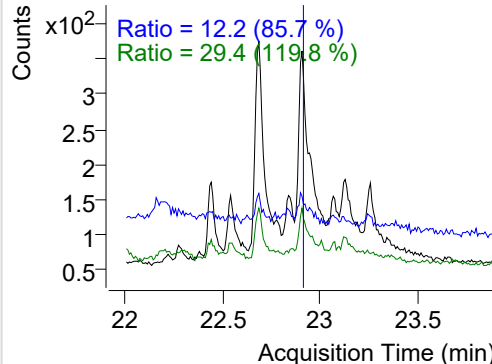


Dibenz(a,h)anthracene

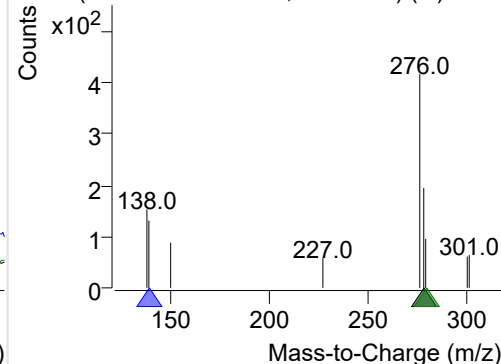
+ Selected Ion (278.0) 220302-PAHs-035.D



278.0, 139.0, 279.0

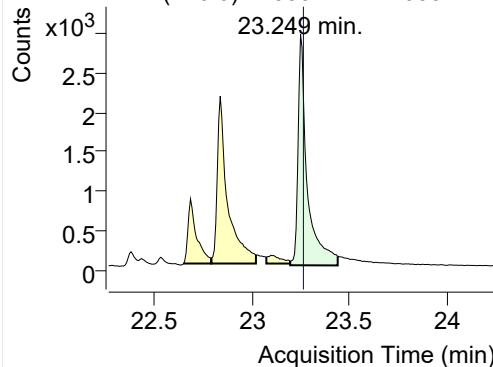


+ SIM (22.867-23.028 min, 22 scans) (**) 2203

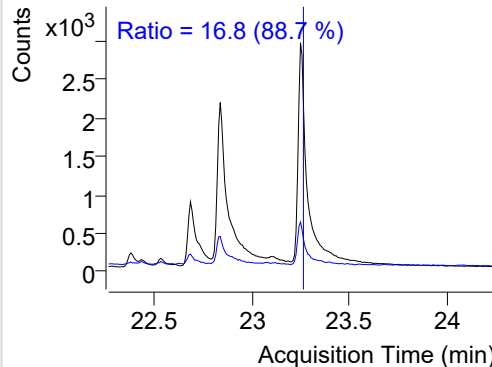


Benzo(g,h,i)perylene

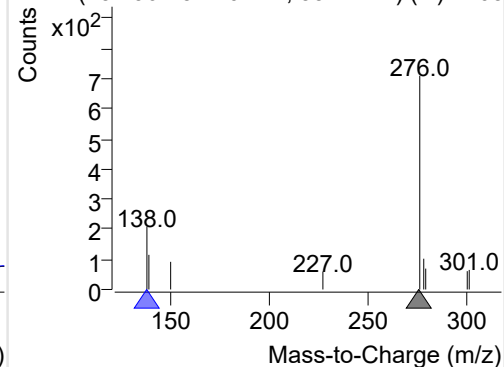
+ Selected Ion (276.0) 220302-PAHs-035.D



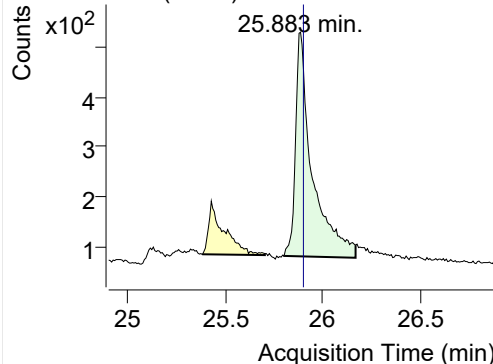
276.0, 138.0



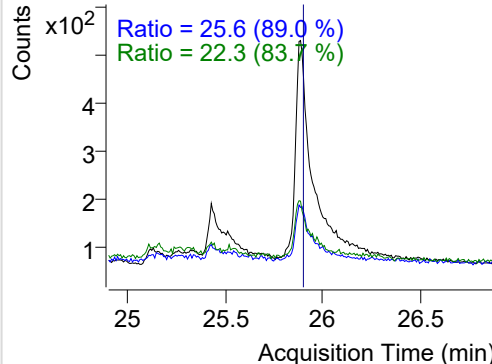
+ SIM (23.196-23.440 min, 33 scans) (**) 2203

**Coronene**

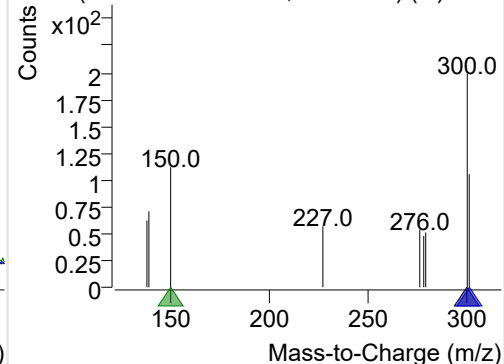
+ Selected Ion (300.0) 220302-PAHs-035.D



300.0, 301.0, 150.0



+ SIM (25.799-26.166 min, 49 scans) (**) 2203



Quantitative Analysis Sample Based Report

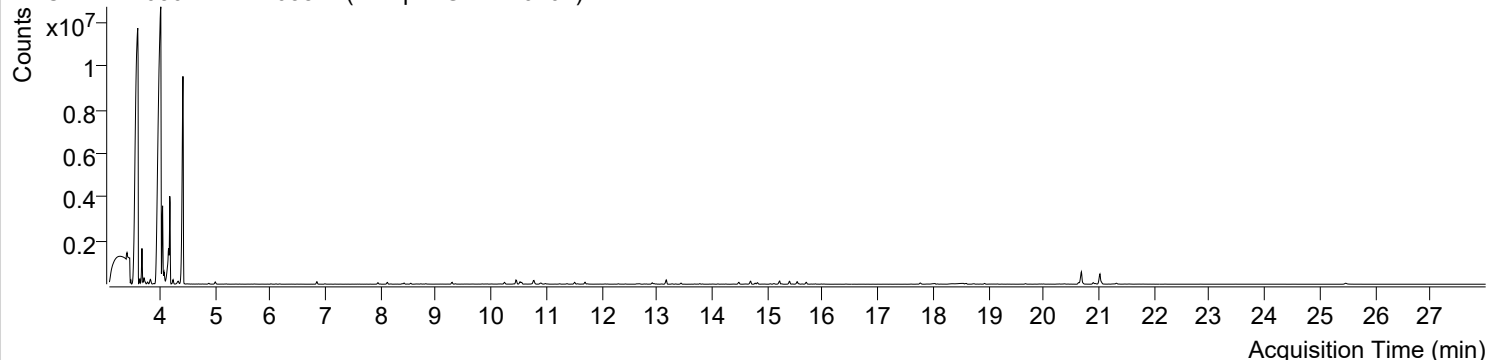


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 5:00:50	Data File	220302-PAHs-038.D
Type	Sample	Name	Sample-Gas-220204
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

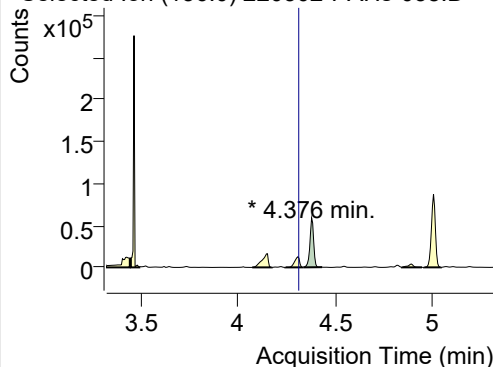
+ TIC SIM 220302-PAHs-038.D (Sample-Gas-220204)



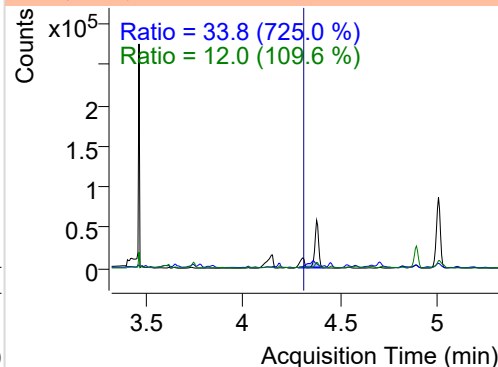
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.376	136.0	77392	58807.20	ND ng/ml	12.0
Naphthalene	4.419	128.0	11431119	7412607.82	ND ng/ml	14.1
Acenaphthylene	7.745	152.0	2539	1772.80	ND ng/ml	
IS-D10-Acenaphthene	8.118	164.0	59509	40825.26	ND ng/ml	89.4
Acenaphthene	8.183	154.0	4535	3081.01	ND ng/ml	125.5
LSS-D10-Fluorene	9.292	176.0	61595	41094.28	ND ng/ml	83.4
Fluorene	9.355	166.0	10534	6456.72	ND ng/ml	99.8
IS-D10-Phenanthrene	11.508	188.0	98628	64081.76	ND ng/ml	15.7
Phenanthrene	11.560	178.0	16749	11299.71	ND ng/ml	17.3
Anthracene	11.697	178.0	39112	24093.71	ND ng/ml	24.2
Fluoranthene	14.359	202.0	2314	1430.49	ND ng/ml	
LSS-D10-Pyrene	14.820	212.0	84727	52405.38	ND ng/ml	17.0
Pyrene	14.858	202.0	2603	1580.49	ND ng/ml	
Benz(a)anthracene	17.758	228.0	581	133.30	ND ng/ml	40.9
IS-D12-Chrysene	17.763	240.0	83487	42111.50	ND ng/ml	18.4
Chrysene	17.758	228.0	581	133.30	ND ng/ml	40.9
Benzo(b)fluoranthene	20.101	252.0	574	677.63	ND ng/ml	
Benzo(k)fluoranthene	20.155	252.0	64	64.38	ND ng/ml	
SS-D12-Benzo(e)pyrene	20.632	264.0	84704	48781.15	ND ng/ml	26.5
Benzo(e)pyrene	20.681	252.0	885009	470898.54	ND ng/ml	19.1
Benzo(a)pyrene	20.741	252.0	646	1196.62	ND ng/ml	26177.0
IS-D12-Perylene	20.898	264.0	85960	47379.06	ND ng/ml	18.7
Perylene	20.947	252.0	2202	1426.83	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	22.845	276.0	190	61.27	ND ng/ml	38.5
Dibenz(a,h)anthracene	22.837	278.0	5508	2051.66	ND ng/ml	38.6
Benzo(g,h,i)perylene	23.287	276.0	374	78.98	ND ng/ml	
Coronene	25.884	300.0	87	27.44	ND ng/ml	

IS-D8-Naphthalene

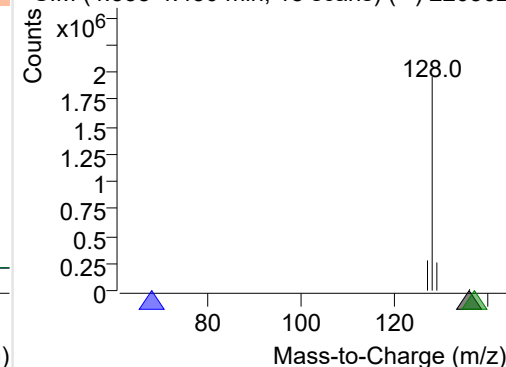
+ Selected Ion (136.0) 220302-PAHs-038.D



136.0, 68.0, 137.0

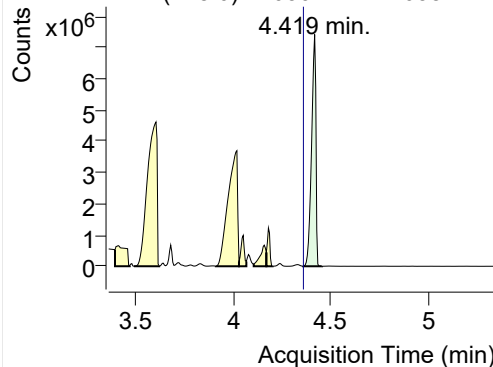


+ SIM (4.338-4.430 min, 18 scans) (**) 220302

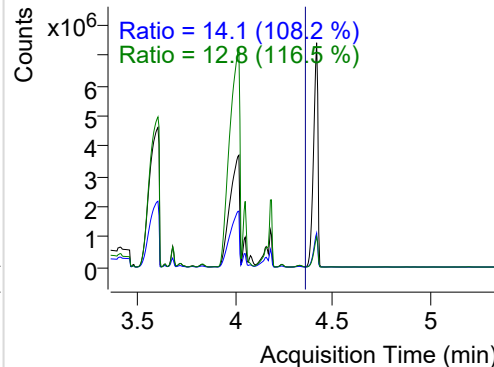


Naphthalene

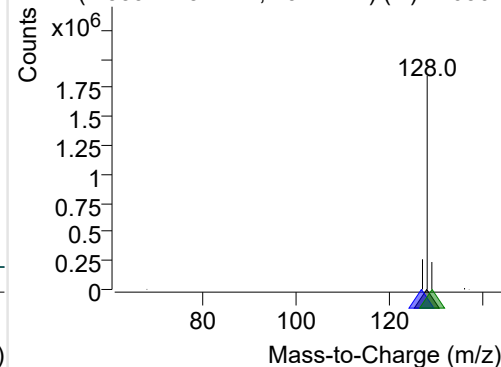
+ Selected Ion (128.0) 220302-PAHs-038.D



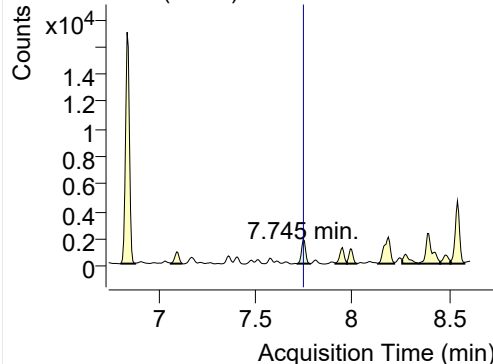
128.0, 127.0, 129.0



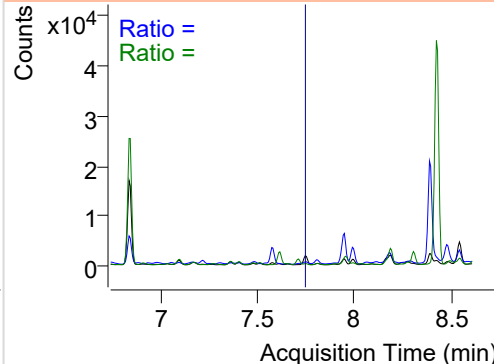
+ SIM (4.359-4.457 min, 19 scans) (**) 220302

**Acenaphthylene**

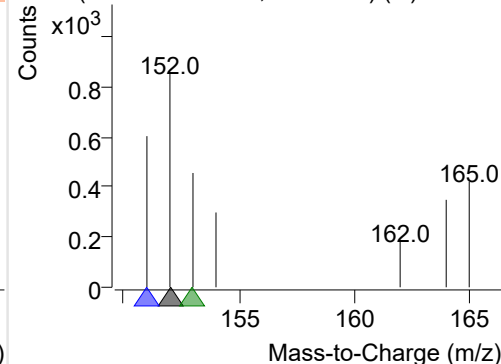
+ Selected Ion (152.0) 220302-PAHs-038.D



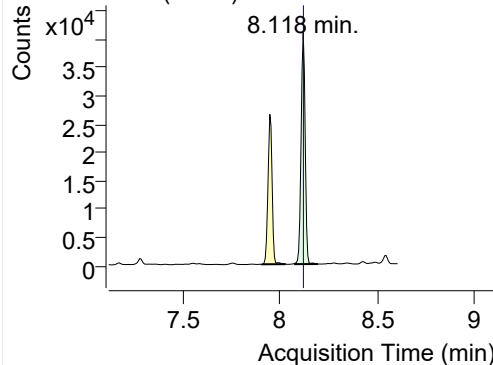
152.0, 151.0, 153.0



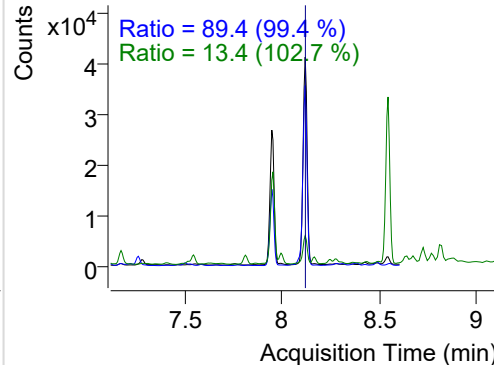
+ SIM (7.716-7.781 min, 12 scans) (**) 220302

**IS-D10-Acenaphthene**

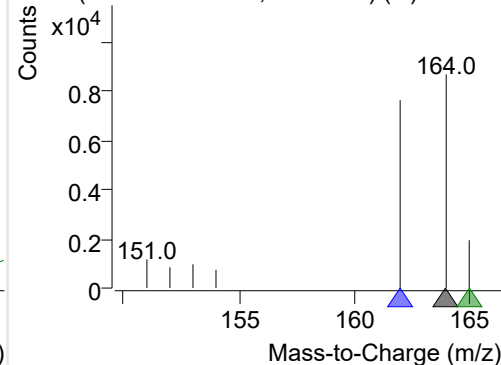
+ Selected Ion (164.0) 220302-PAHs-038.D



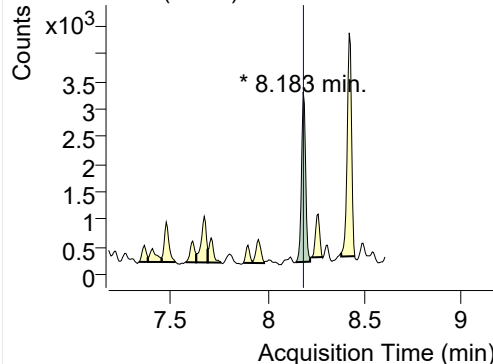
164.0, 162.0, 165.0



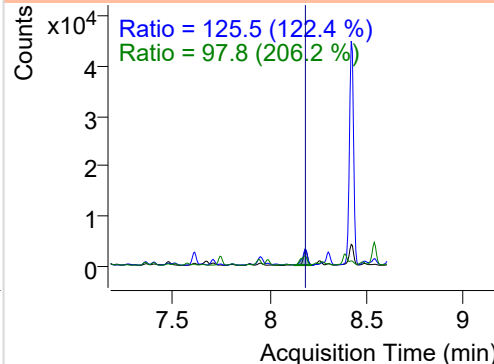
+ SIM (8.077-8.194 min, 20 scans) (**) 220302

**Acenaphthene**

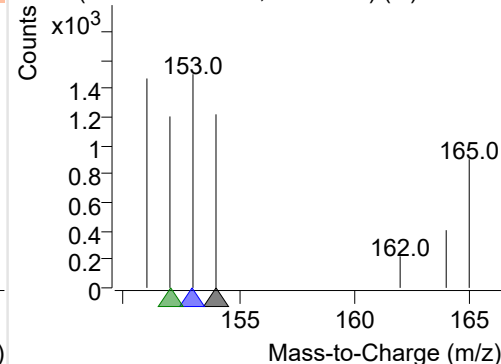
+ Selected Ion (154.0) 220302-PAHs-038.D



154.0, 153.0, 152.0

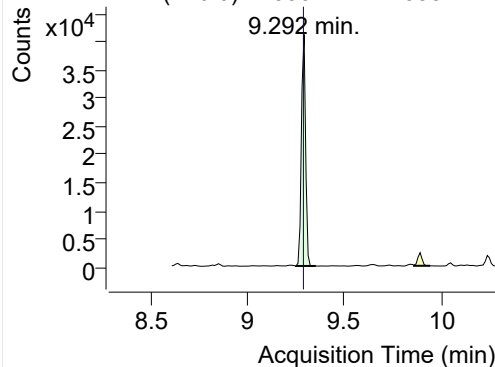


+ SIM (8.145-8.219 min, 13 scans) (**) 220302

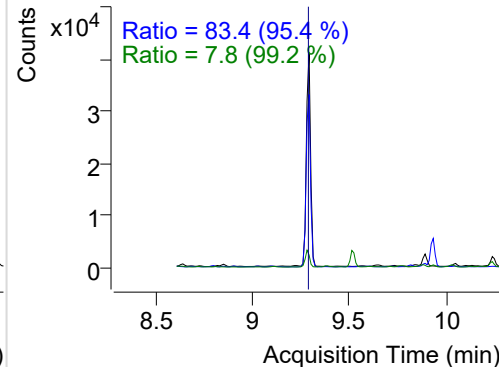


LSS-D10-Fluorene

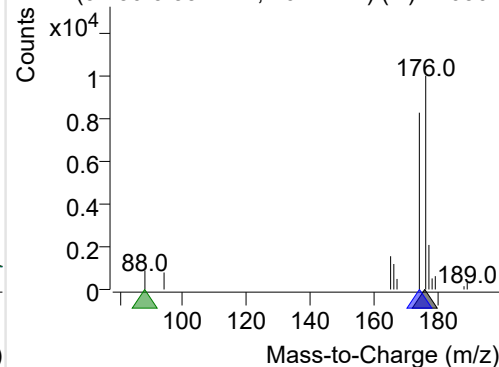
+ Selected Ion (176.0) 220302-PAHs-038.D



176.0, 174.0, 88.0

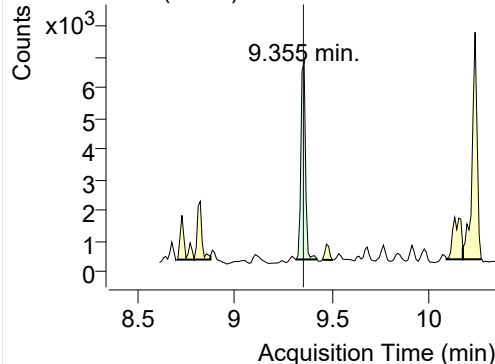


+ SIM (9.250-9.352 min, 10 scans) (**) 220302

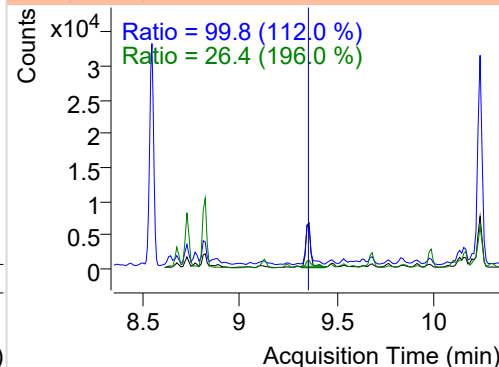


Fluorene

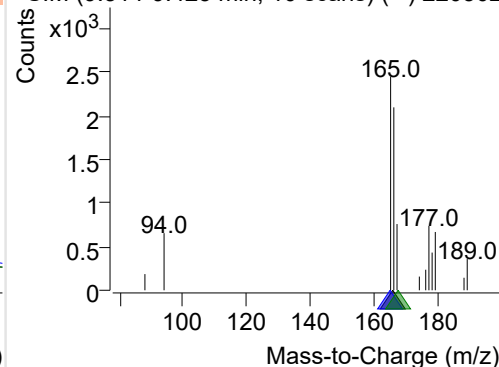
+ Selected Ion (166.0) 220302-PAHs-038.D



166.0, 165.0, 167.0

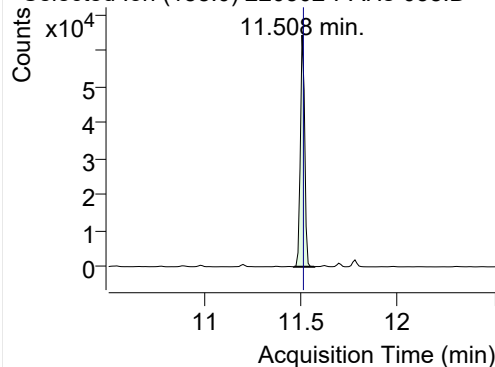


+ SIM (9.314-9.423 min, 10 scans) (**) 220302

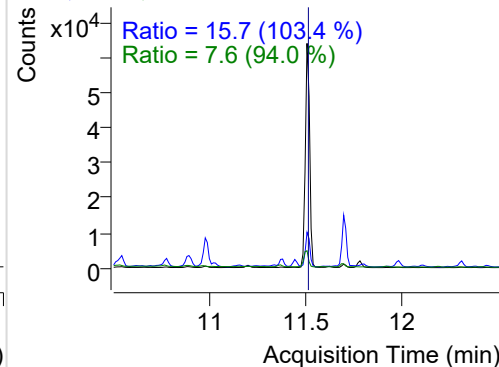


IS-D10-Phenanthrene

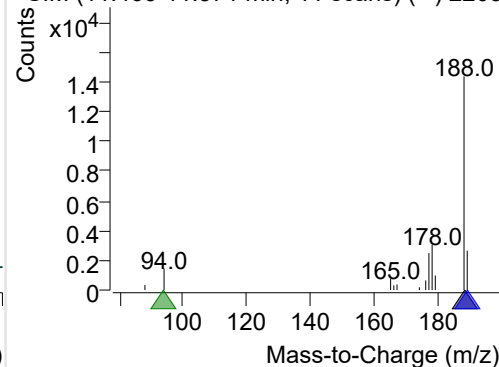
+ Selected Ion (188.0) 220302-PAHs-038.D



188.0, 189.0, 94.0

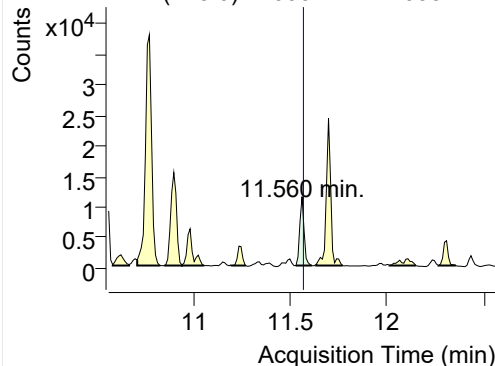


+ SIM (11.466-11.571 min, 11 scans) (**) 2203

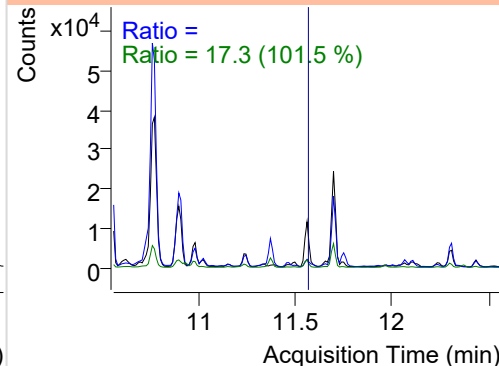


Phenanthrene

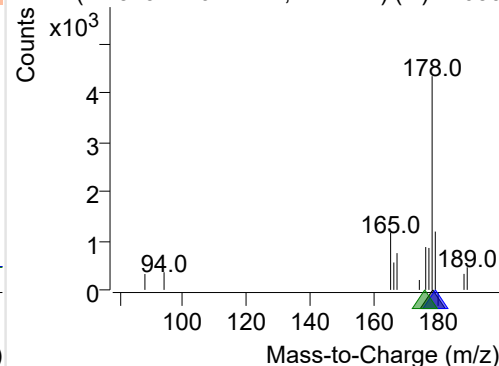
+ Selected Ion (178.0) 220302-PAHs-038.D



178.0, 179.0, 176.0

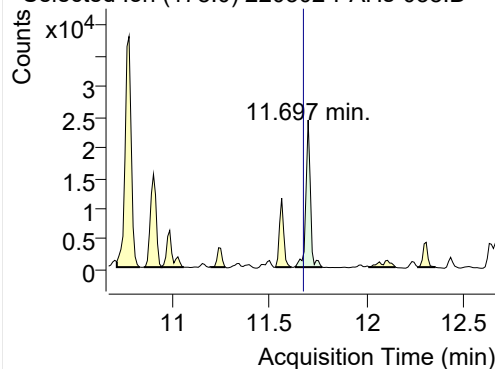


+ SIM (11.529-11.611 min, 7 scans) (**) 22030

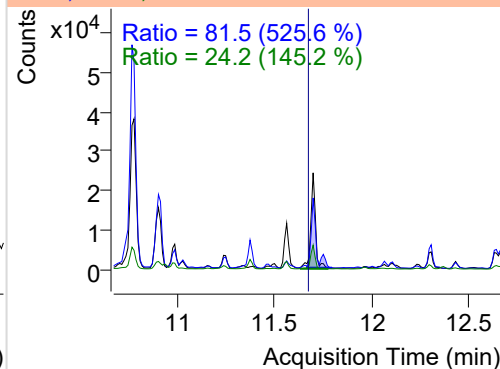


Anthracene

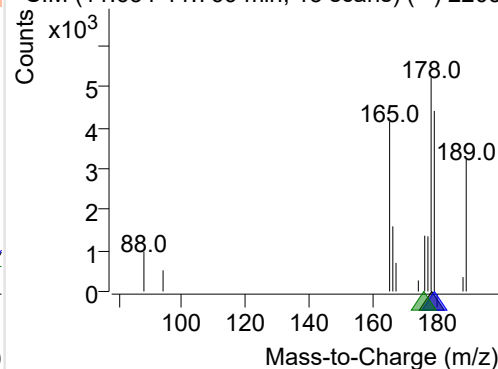
+ Selected Ion (178.0) 220302-PAHs-038.D



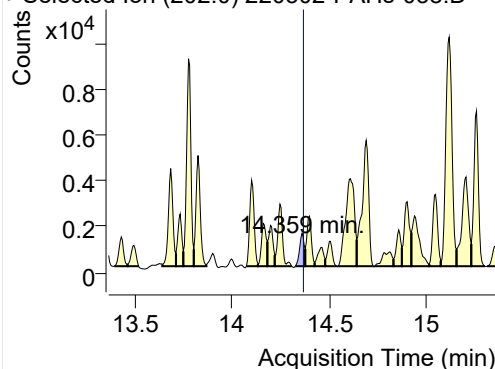
178.0, 179.0, 176.0



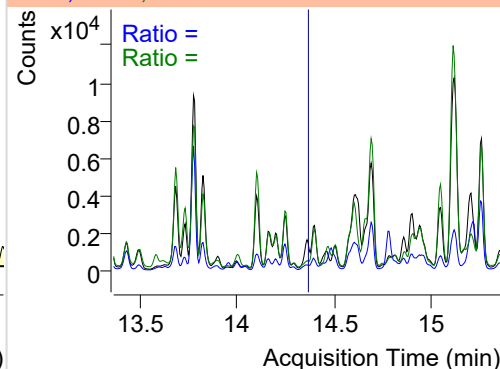
+ SIM (11.634-11.769 min, 13 scans) (**) 2203

**Fluoranthene**

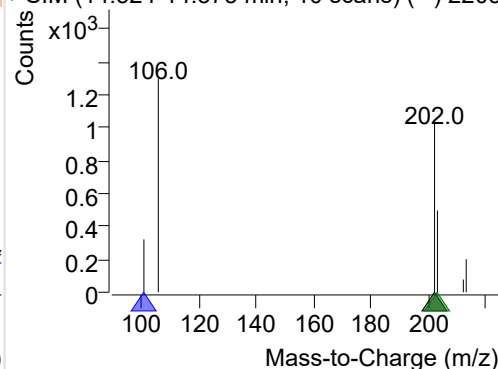
+ Selected Ion (202.0) 220302-PAHs-038.D



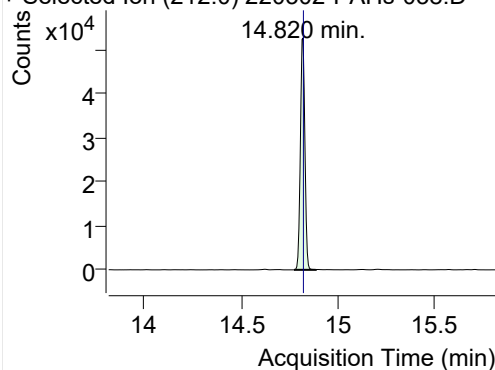
202.0, 101.0, 203.0



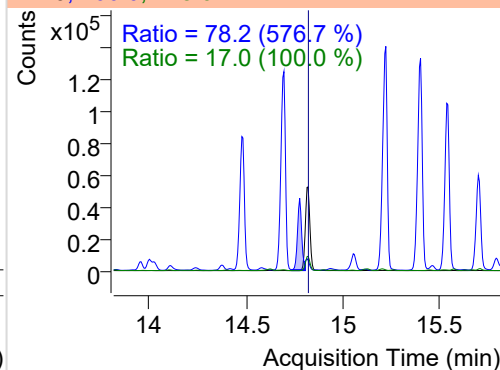
+ SIM (14.324-14.375 min, 10 scans) (**) 2203

**LSS-D10-Pyrene**

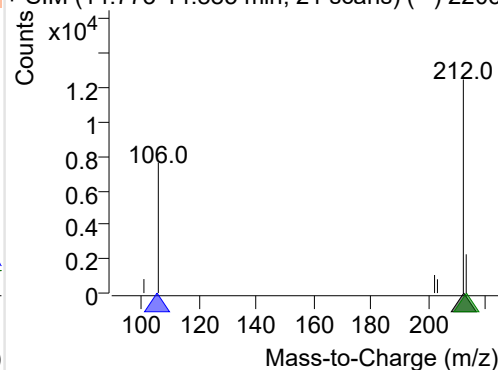
+ Selected Ion (212.0) 220302-PAHs-038.D



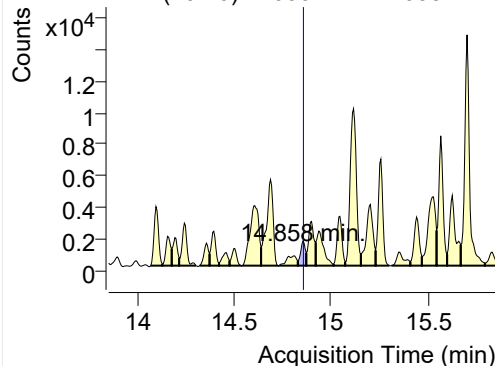
212.0, 106.0, 213.0



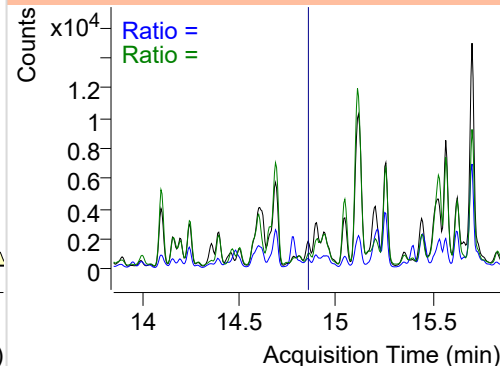
+ SIM (14.773-14.885 min, 21 scans) (**) 2203

**Pyrene**

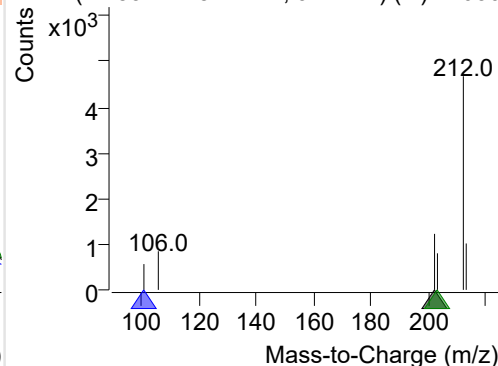
+ Selected Ion (202.0) 220302-PAHs-038.D



202.0, 101.0, 203.0



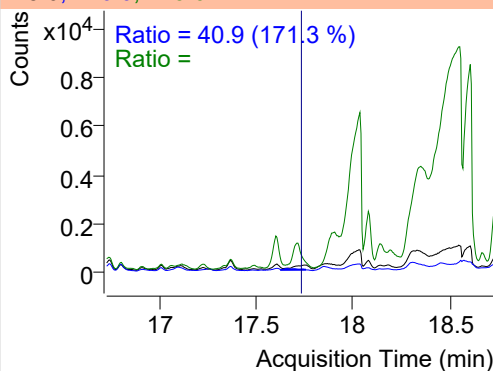
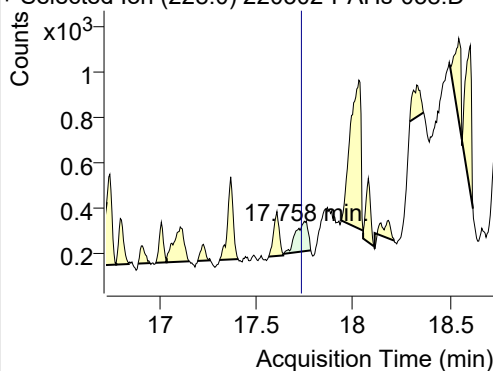
+ SIM (14.831-14.874 min, 9 scans) (**) 22030



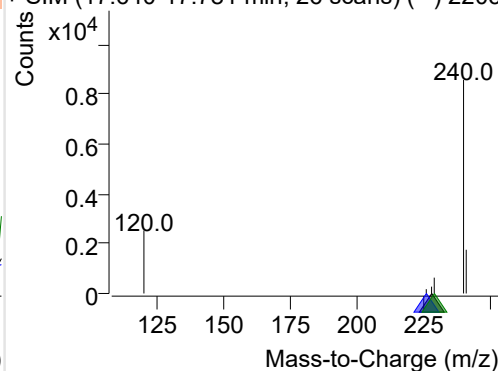
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-038.D

228.0, 226.0, 229.0

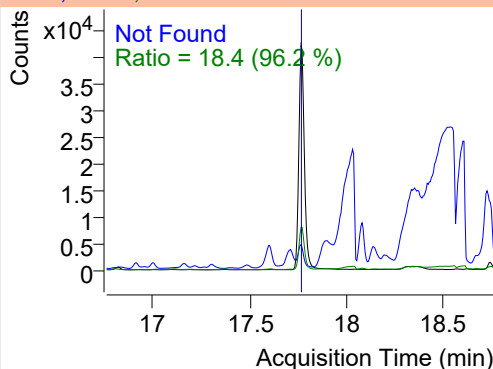
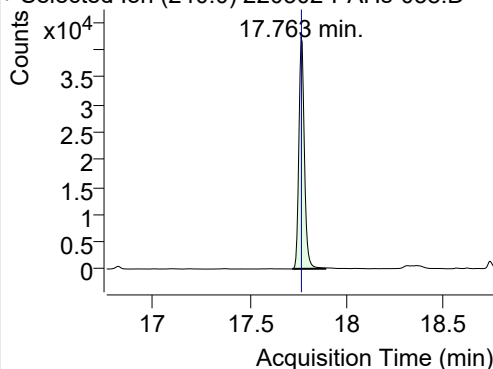


+ SIM (17.640-17.781 min, 26 scans) (**) 2203

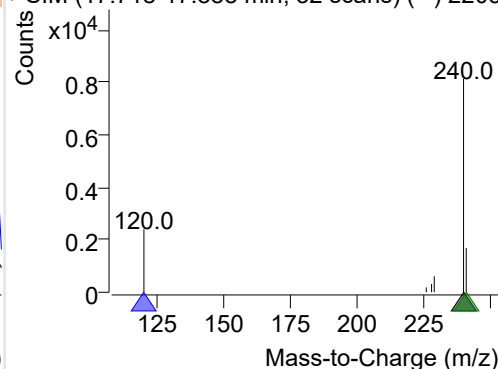
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-038.D

240.0, 120.0, 241.0

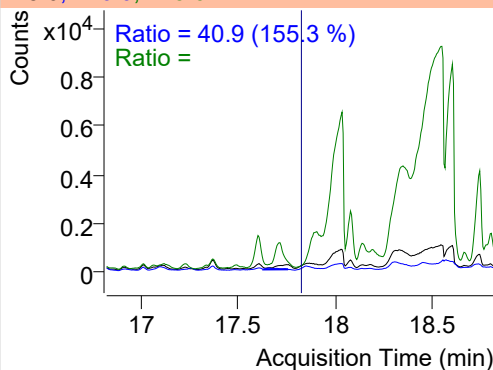
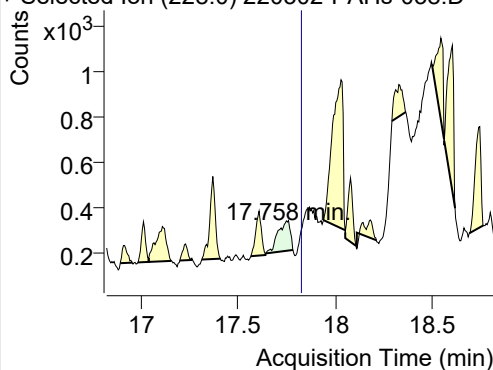


+ SIM (17.718-17.888 min, 32 scans) (**) 2203

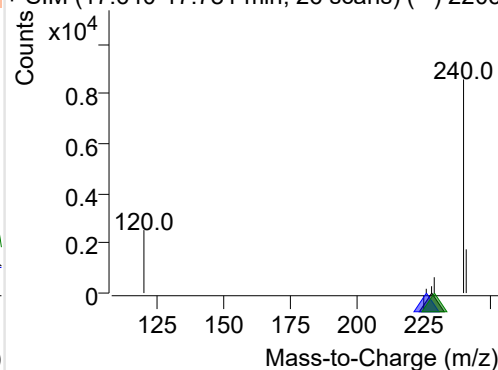
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-038.D

228.0, 226.0, 229.0

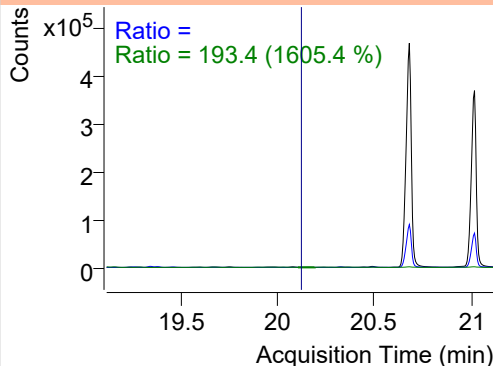
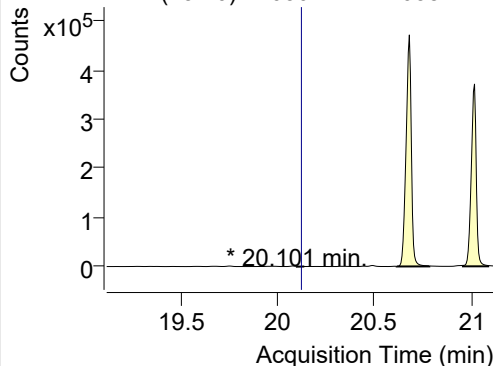


+ SIM (17.640-17.781 min, 26 scans) (**) 2203

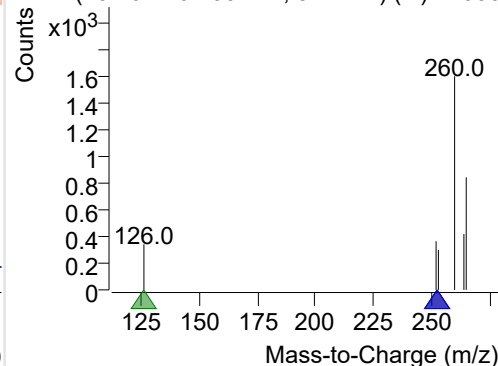
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-038.D

252.0, 253.0, 126.0



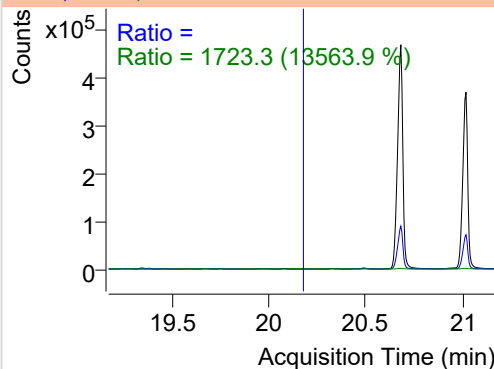
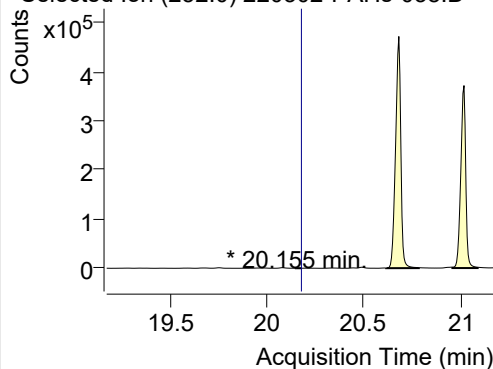
+ SIM (20.101-20.139 min, 8 scans) (**) 22030



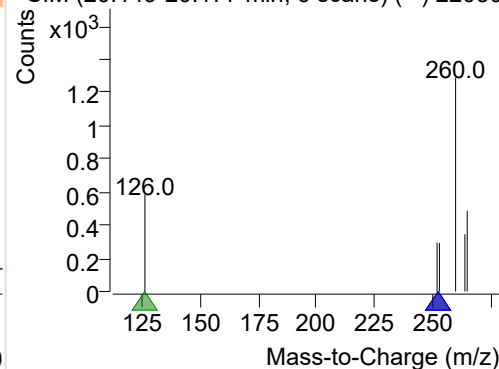
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-038.D

252.0, 253.0, 126.0

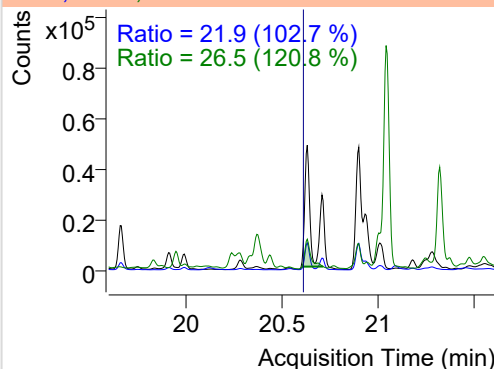
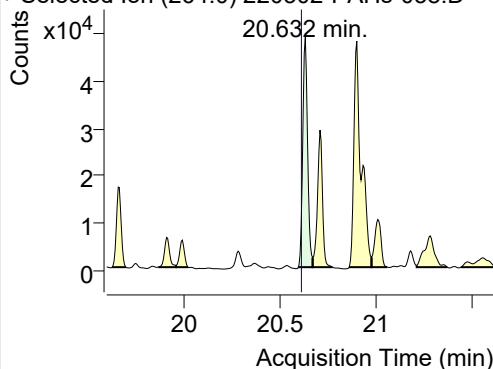


+ SIM (20.149-20.177 min, 6 scans) (**) 22030

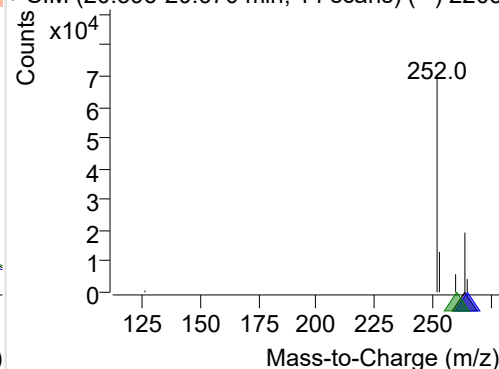
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-038.D

264.0, 265.0, 260.0

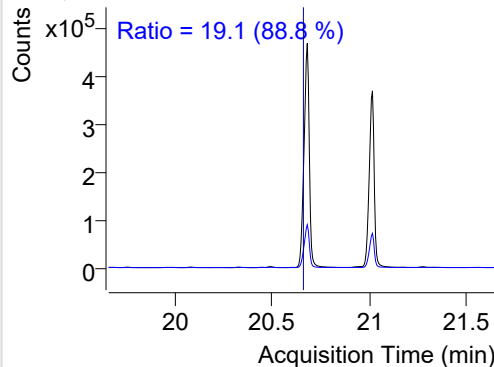
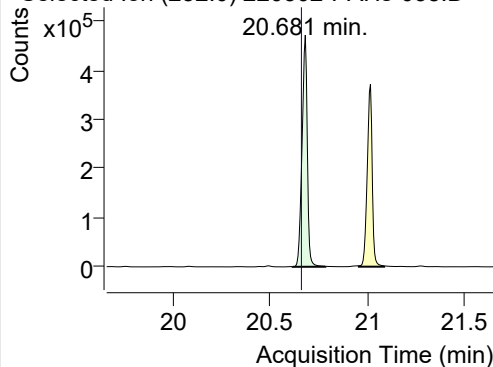


+ SIM (20.596-20.670 min, 14 scans) (**) 2203

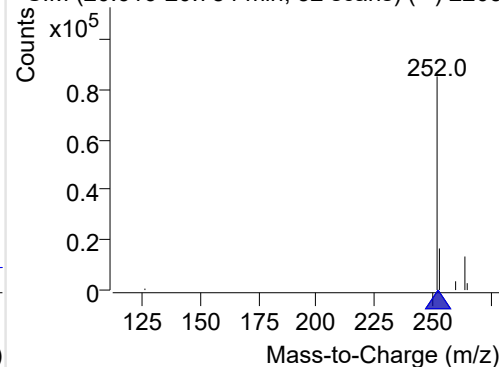
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-038.D

252.0, 253.0

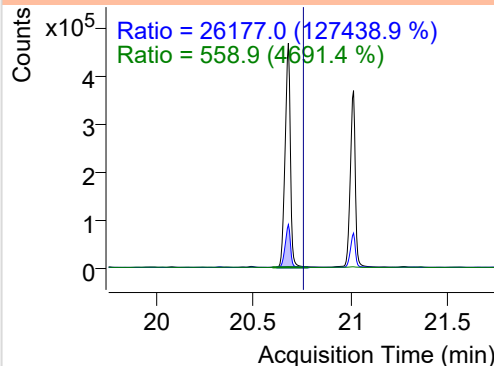
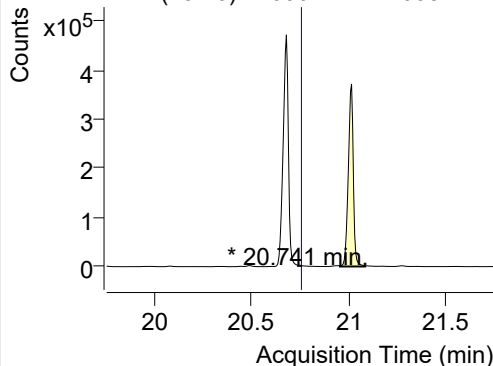


+ SIM (20.616-20.784 min, 32 scans) (**) 2203

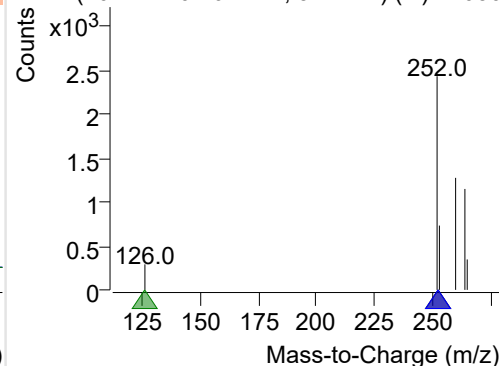
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-038.D

252.0, 253.0, 126.0

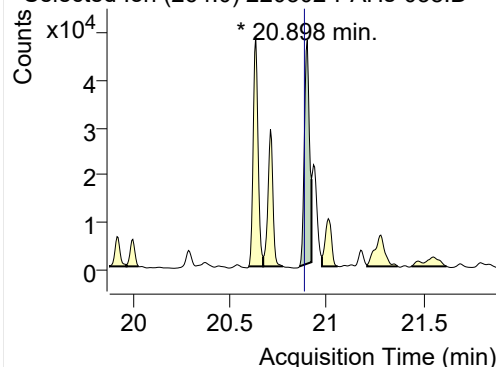


+ SIM (20.741-20.762 min, 5 scans) (**) 22030

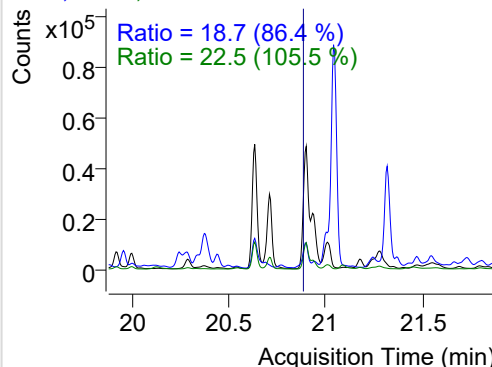


IS-D12-Perylene

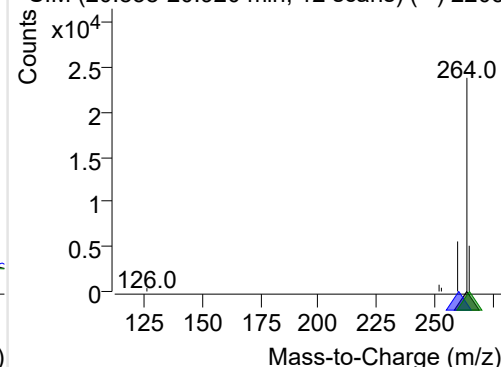
+ Selected Ion (264.0) 220302-PAHs-038.D



264.0, 260.0, 265.0

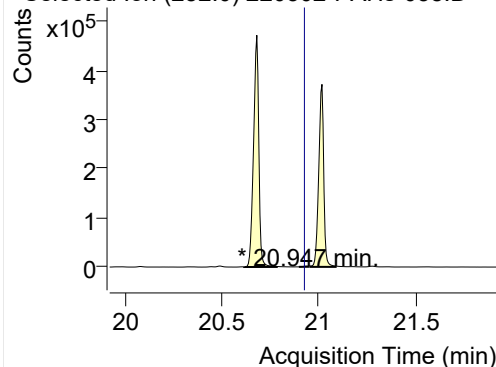


+ SIM (20.858-20.920 min, 12 scans) (**) 2203

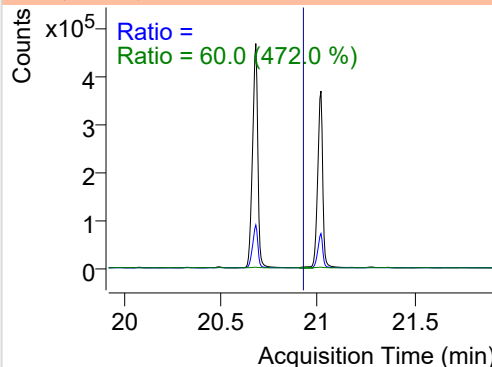


Perylene

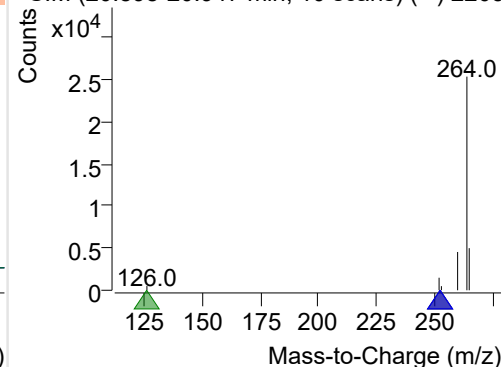
+ Selected Ion (252.0) 220302-PAHs-038.D



252.0, 253.0, 126.0

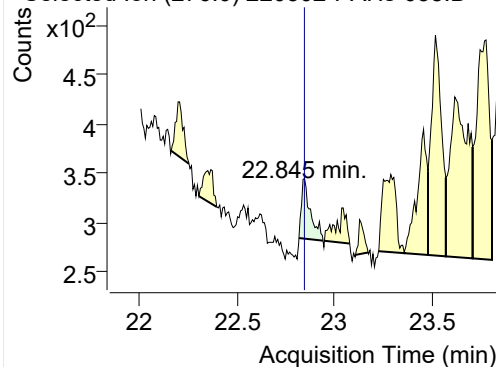


+ SIM (20.898-20.947 min, 10 scans) (**) 2203

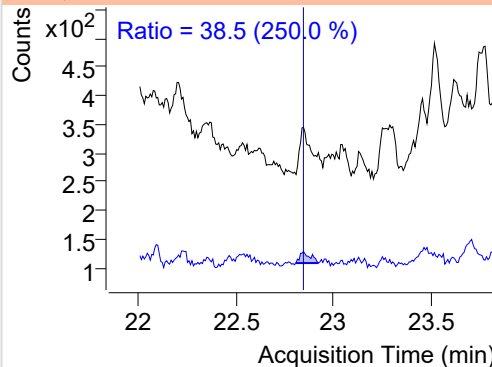


Indeno(1,2,3-c,d)pyrene

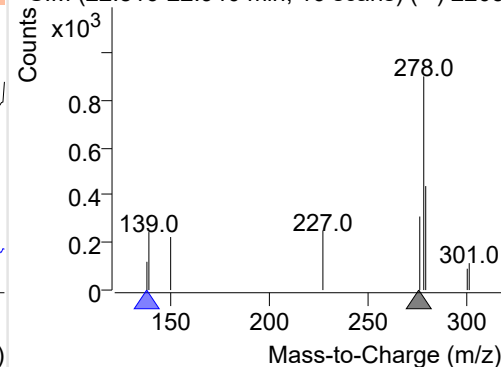
+ Selected Ion (276.0) 220302-PAHs-038.D



276.0, 138.0

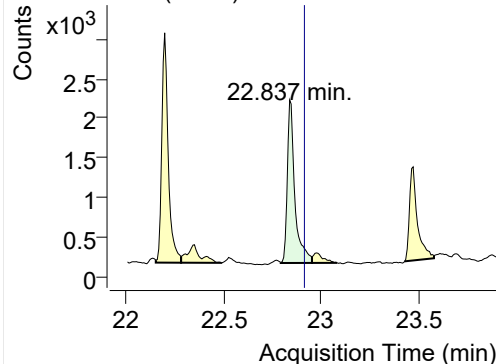


+ SIM (22.816-22.940 min, 16 scans) (**) 2203

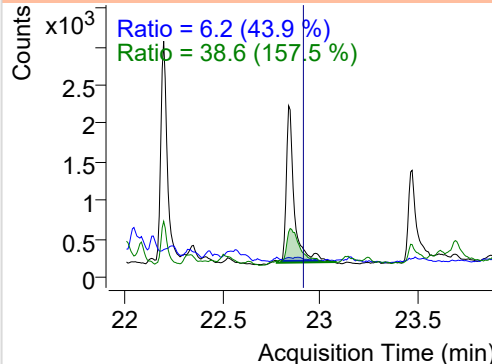


Dibenz(a,h)anthracene

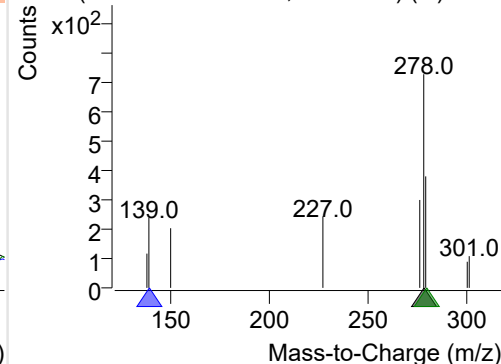
+ Selected Ion (278.0) 220302-PAHs-038.D



278.0, 139.0, 279.0



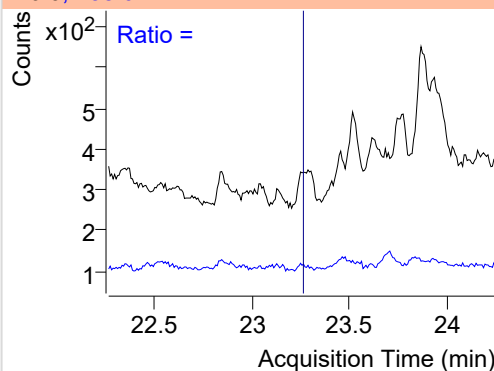
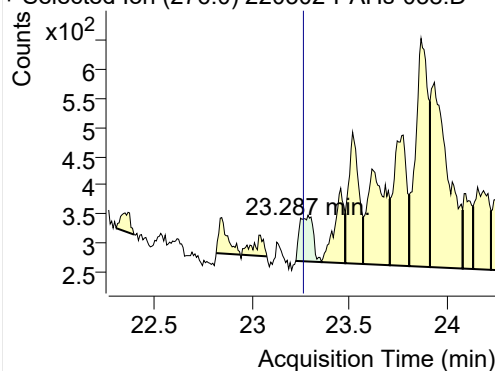
+ SIM (22.791-22.951 min, 22 scans) (**) 2203



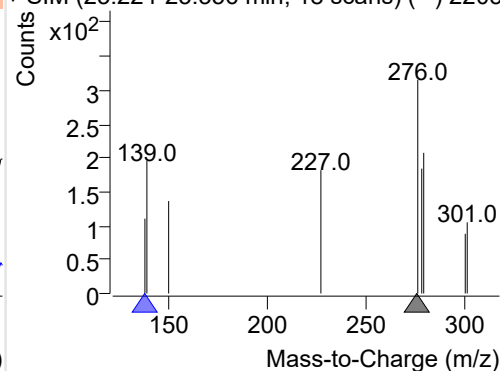
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-038.D

276.0, 138.0

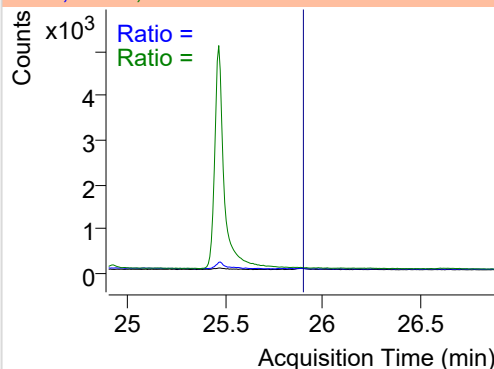
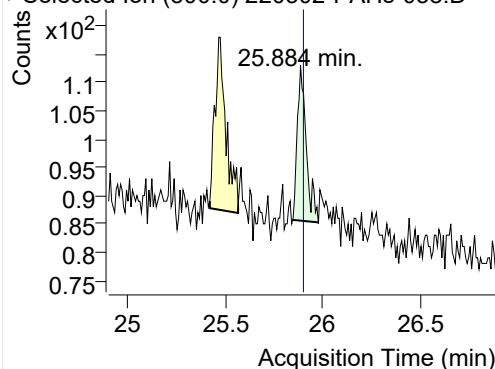


+ SIM (23.224-23.356 min, 18 scans) (**) 2203

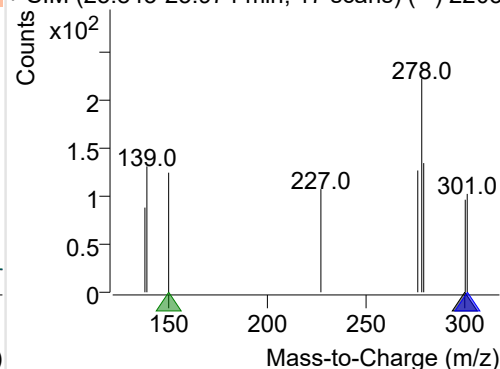
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-038.D

300.0, 301.0, 150.0



+ SIM (25.843-25.974 min, 17 scans) (**) 2203



Quantitative Analysis Sample Based Report

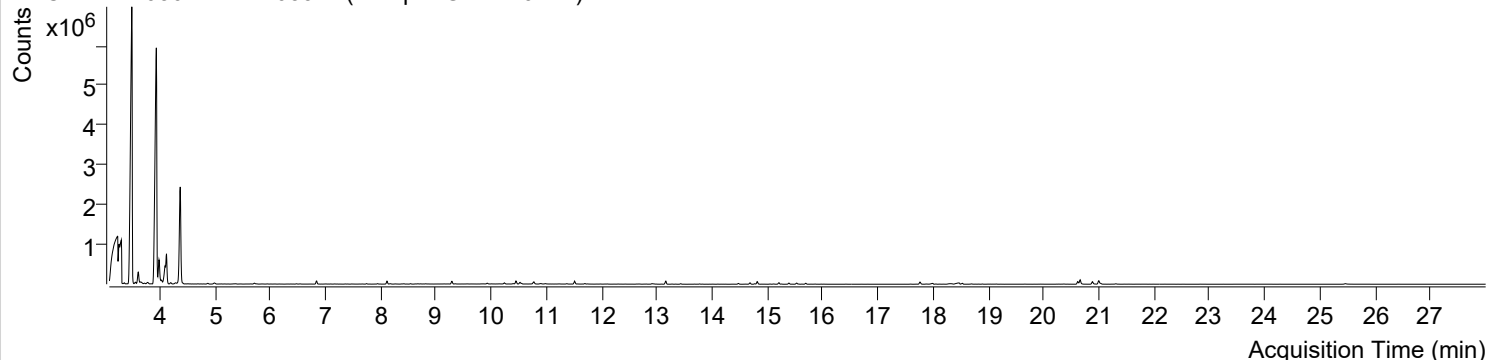


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 5:32:01	Data File	220302-PAHs-039.D
Type	Sample	Name	Sample-Gas-220211
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

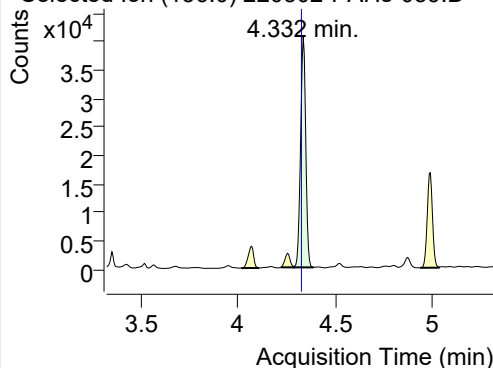
+ TIC SIM 220302-PAHs-039.D (Sample-Gas-220211)



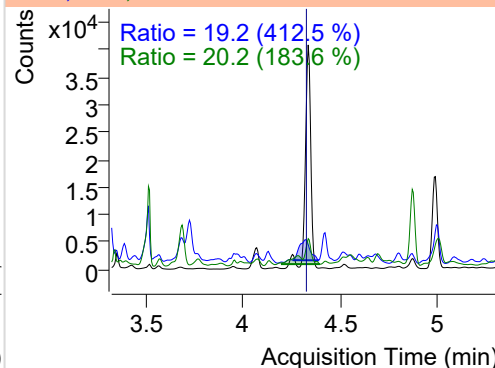
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.332	136.0	75164	40610.51	ND ng/ml	20.2
Naphthalene	4.370	128.0	3641573	1966931.44	ND ng/ml	12.6
Acenaphthylene	7.745	152.0	10936	7482.04	ND ng/ml	18.8
IS-D10-Acenaphthene	8.112	164.0	53117	36649.50	ND ng/ml	86.9
Acenaphthene	8.183	154.0	3508	2191.77	ND ng/ml	113.8
LSS-D10-Fluorene	9.292	176.0	53378	32382.99	ND ng/ml	85.1
Fluorene	9.345	166.0	3108	1954.89	ND ng/ml	93.3
IS-D10-Phenanthrene	11.508	188.0	88788	60067.26	ND ng/ml	16.1
Phenanthrene	11.560	178.0	4046	2270.33	ND ng/ml	19.7
Anthracene	11.697	178.0	5253	3441.32	ND ng/ml	28.8
Fluoranthene	14.354	202.0	1185	789.21	ND ng/ml	
LSS-D10-Pyrene	14.814	212.0	80630	50741.70	ND ng/ml	16.8
Pyrene	14.852	202.0	1811	1198.01	ND ng/ml	22.7
Benz(a)anthracene	17.726	228.0	242	80.03	ND ng/ml	50.8
IS-D12-Chrysene	17.758	240.0	74315	41197.19	ND ng/ml	18.6
Chrysene	17.812	228.0	289	139.32	ND ng/ml	53.3
Benzo(b)fluoranthene	20.133	252.0	109	78.59	ND ng/ml	
Benzo(k)fluoranthene	20.177	252.0	191	75.50	ND ng/ml	
SS-D12-Benzo(e)pyrene	20.616	264.0	82356	46034.08	ND ng/ml	23.9
Benzo(e)pyrene	20.659	252.0	162709	91465.30	ND ng/ml	19.0
Benzo(a)pyrene	20.746	252.0	197	249.50	ND ng/ml	15687.5
IS-D12-Perylene	20.882	264.0	86296	44535.73	ND ng/ml	21.2
Perylene	20.931	252.0	177	232.97	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	22.837	276.0	171	56.14	ND ng/ml	15.1
Dibenz(a,h)anthracene	22.837	278.0	1891	652.05	ND ng/ml	26.6
Benzo(g,h,i)perylene	23.249	276.0	145	64.78	ND ng/ml	27.2
Coronene	25.884	300.0	104	29.00	ND ng/ml	

IS-D8-Naphthalene

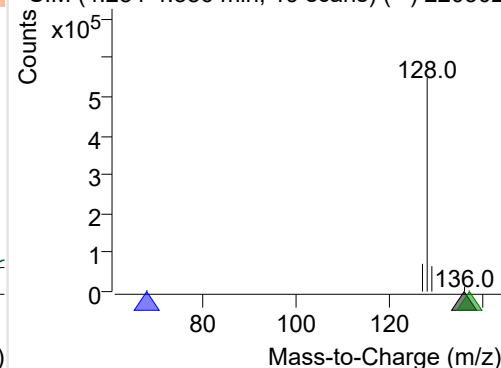
+ Selected Ion (136.0) 220302-PAHs-039.D



136.0, 68.0, 137.0

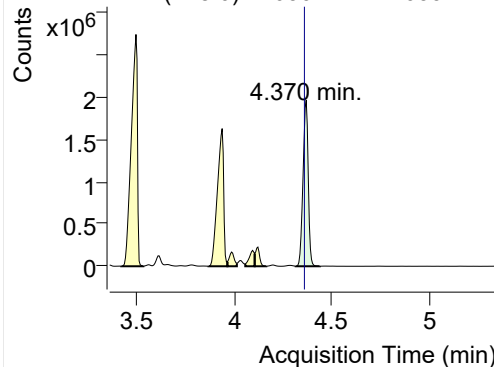


+ SIM (4.284-4.386 min, 19 scans) (**) 220302

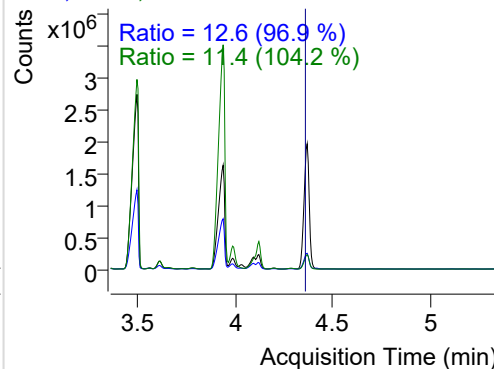


Naphthalene

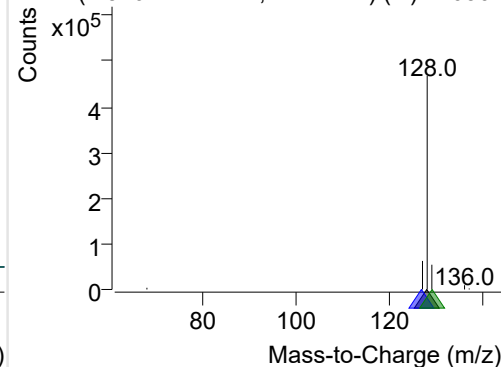
+ Selected Ion (128.0) 220302-PAHs-039.D



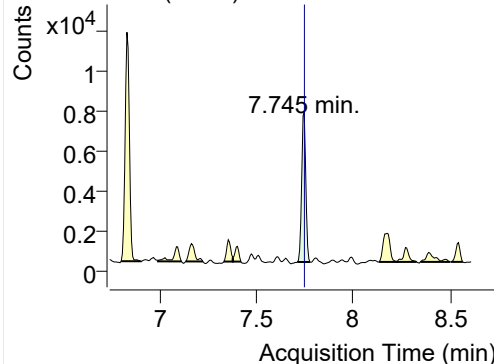
128.0, 127.0, 129.0



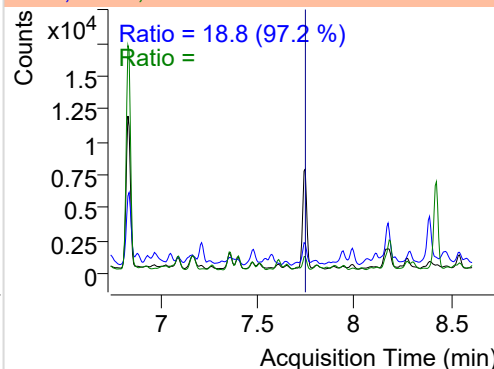
+ SIM (4.316-4.441 min, 24 scans) (**) 220302

**Acenaphthylene**

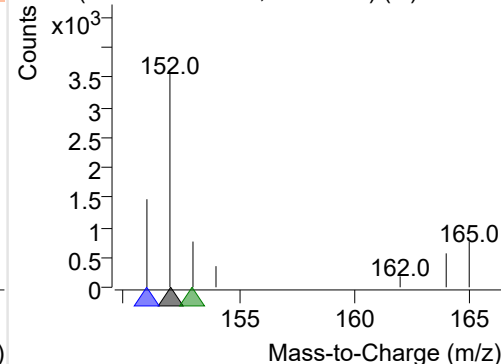
+ Selected Ion (152.0) 220302-PAHs-039.D



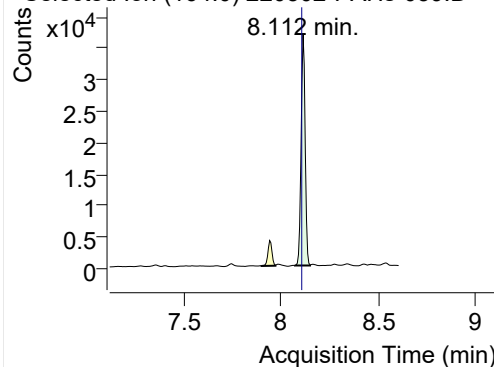
152.0, 151.0, 153.0



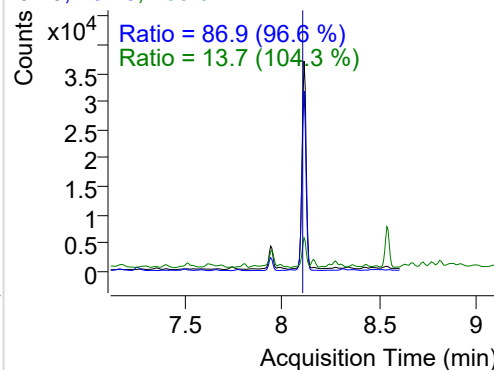
+ SIM (7.710-7.775 min, 10 scans) (**) 220302

**IS-D10-Acenaphthene**

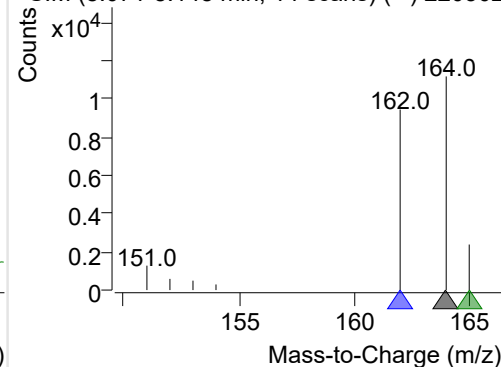
+ Selected Ion (164.0) 220302-PAHs-039.D



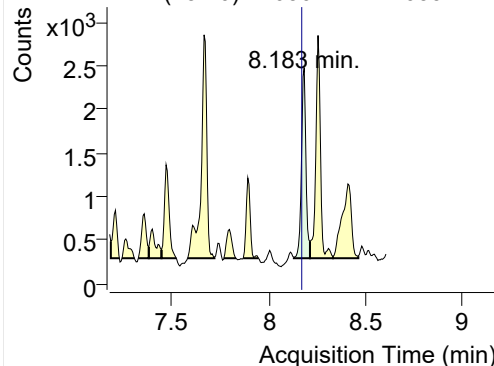
164.0, 162.0, 165.0



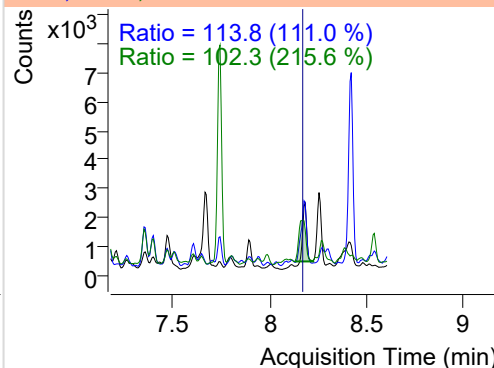
+ SIM (8.071-8.148 min, 14 scans) (**) 220302

**Acenaphthene**

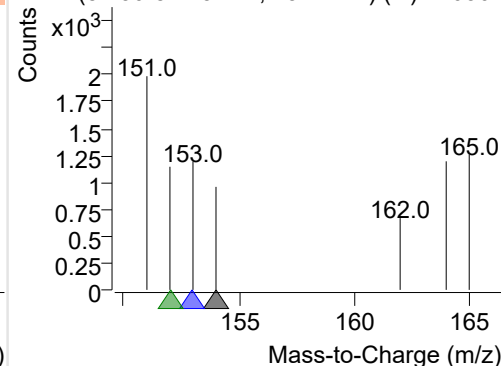
+ Selected Ion (154.0) 220302-PAHs-039.D



154.0, 153.0, 152.0

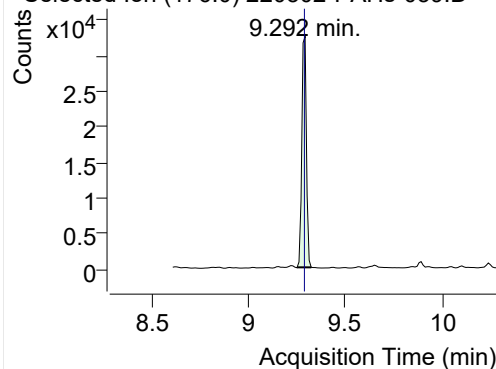


+ SIM (8.130-8.213 min, 15 scans) (**) 220302

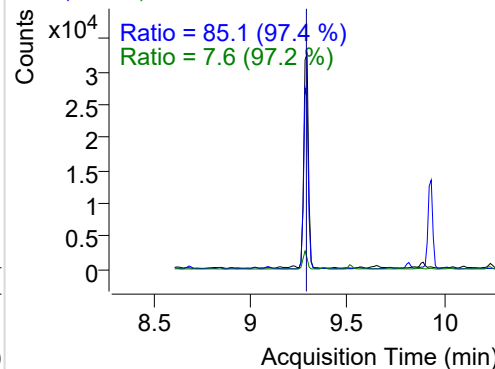


LSS-D10-Fluorene

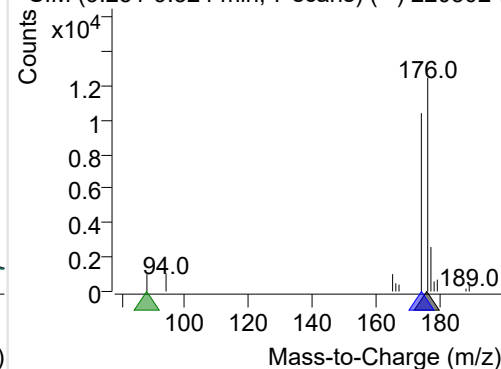
+ Selected Ion (176.0) 220302-PAHs-039.D



176.0, 174.0, 88.0

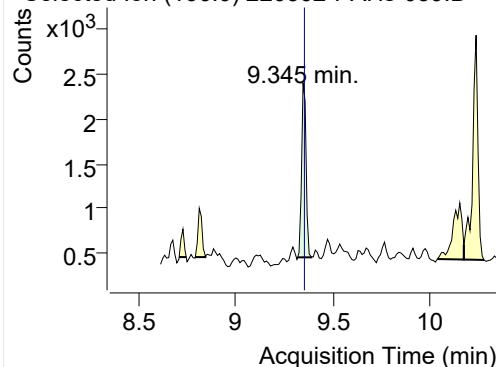


+ SIM (9.251-9.324 min, 7 scans) (**) 220302-I

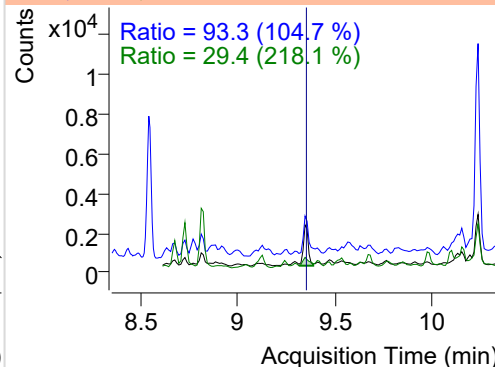


Fluorene

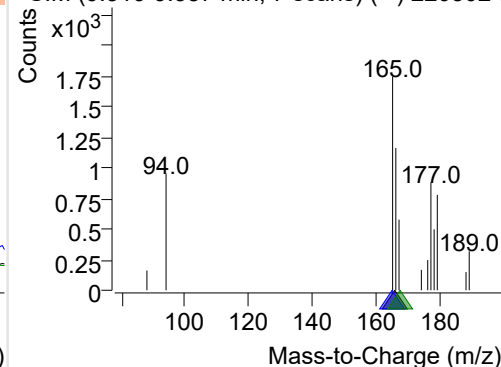
+ Selected Ion (166.0) 220302-PAHs-039.D



166.0, 165.0, 167.0

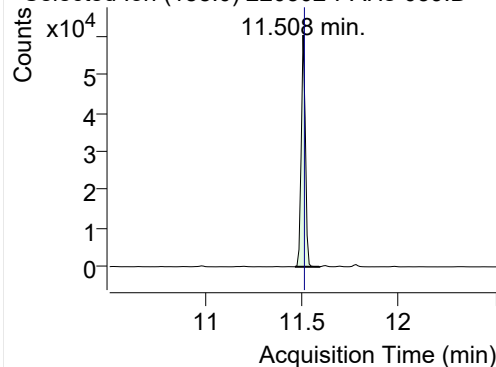


+ SIM (9.316-9.387 min, 7 scans) (**) 220302-I

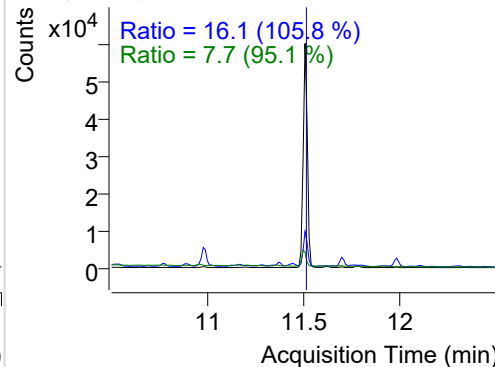


IS-D10-Phenanthrene

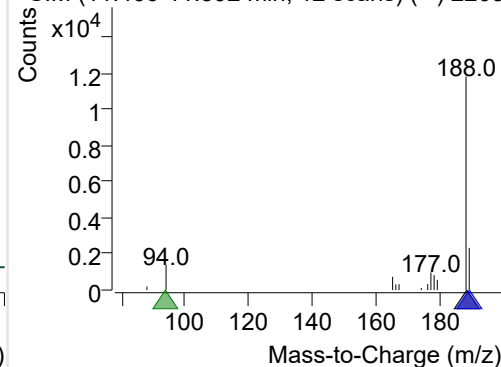
+ Selected Ion (188.0) 220302-PAHs-039.D



188.0, 189.0, 94.0

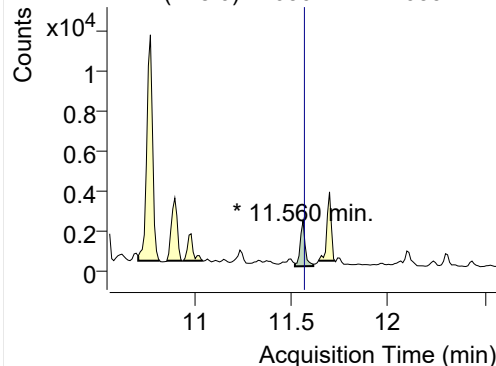


+ SIM (11.466-11.592 min, 12 scans) (**) 2203

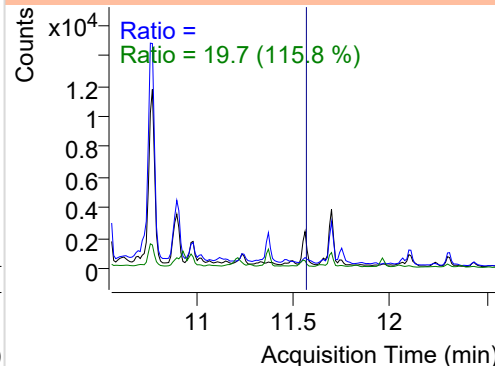


Phenanthrene

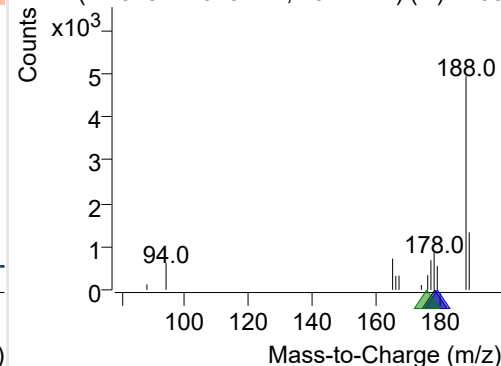
+ Selected Ion (178.0) 220302-PAHs-039.D



178.0, 179.0, 176.0

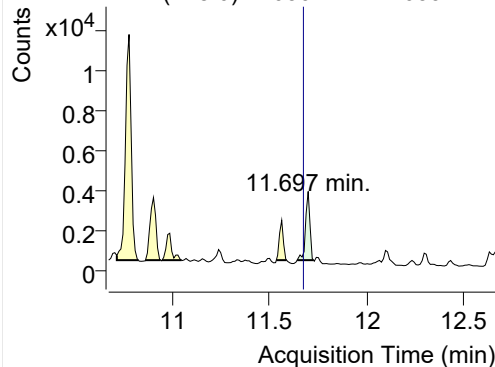


+ SIM (11.518-11.613 min, 10 scans) (**) 2203

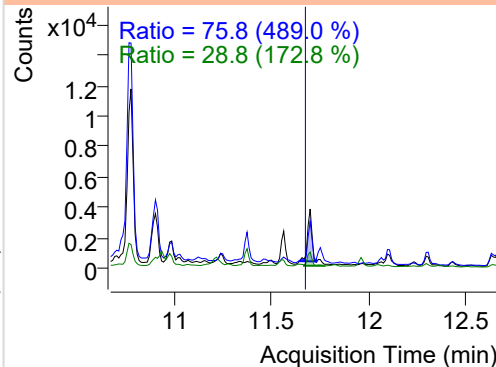


Anthracene

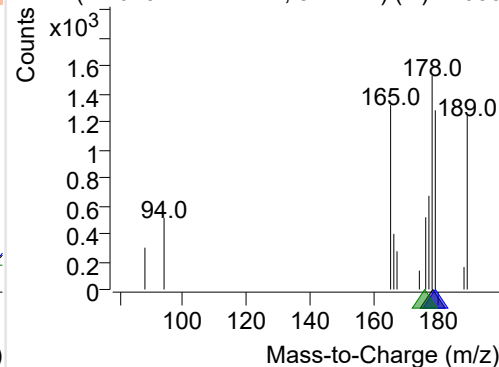
+ Selected Ion (178.0) 220302-PAHs-039.D



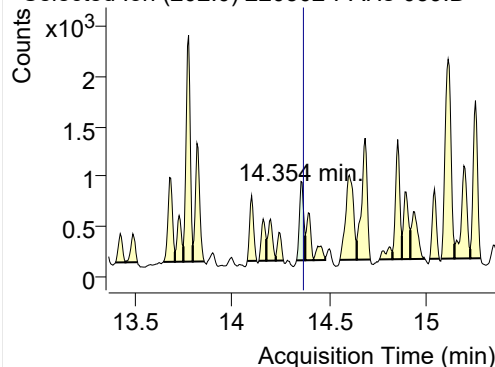
178.0, 179.0, 176.0



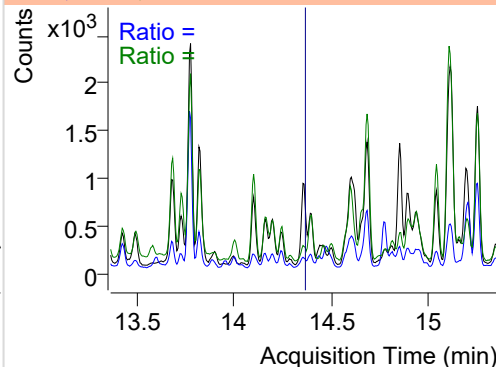
+ SIM (11.640-11.724 min, 8 scans) (**) 22030

**Fluoranthene**

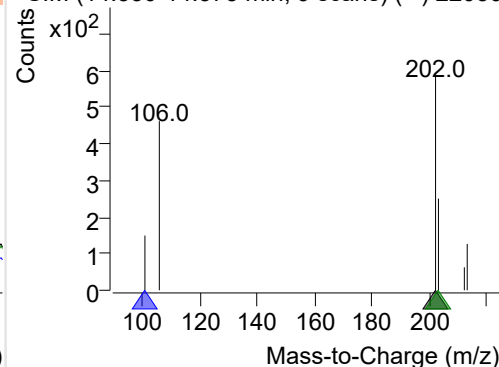
+ Selected Ion (202.0) 220302-PAHs-039.D



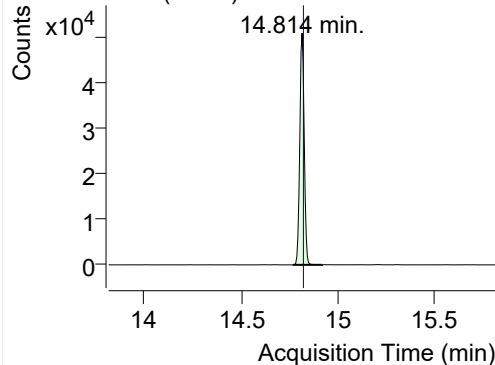
202.0, 101.0, 203.0



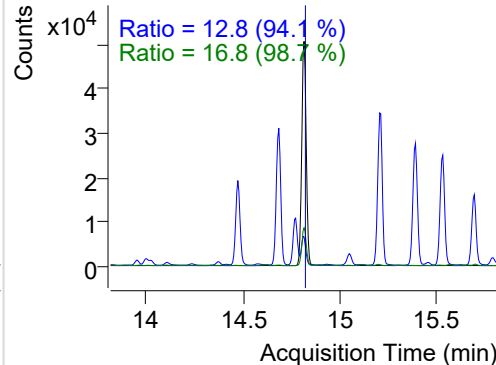
+ SIM (14.330-14.375 min, 9 scans) (**) 22030

**LSS-D10-Pyrene**

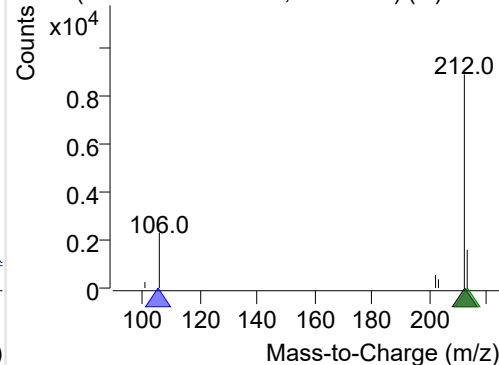
+ Selected Ion (212.0) 220302-PAHs-039.D



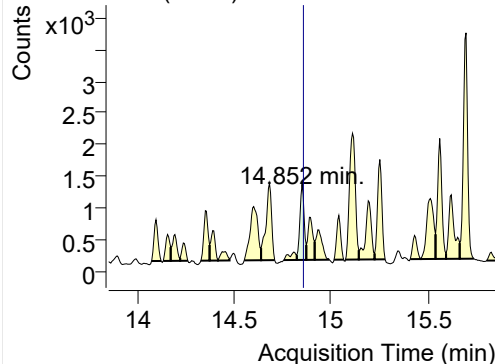
212.0, 106.0, 213.0



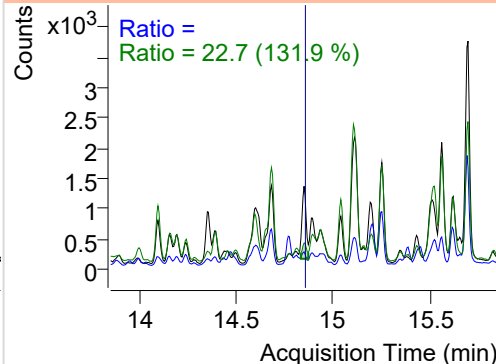
+ SIM (14.766-14.917 min, 28 scans) (**) 2203

**Pyrene**

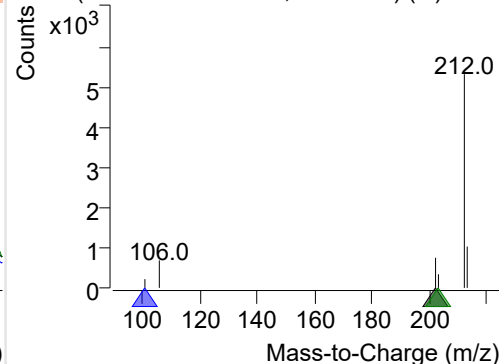
+ Selected Ion (202.0) 220302-PAHs-039.D



202.0, 101.0, 203.0



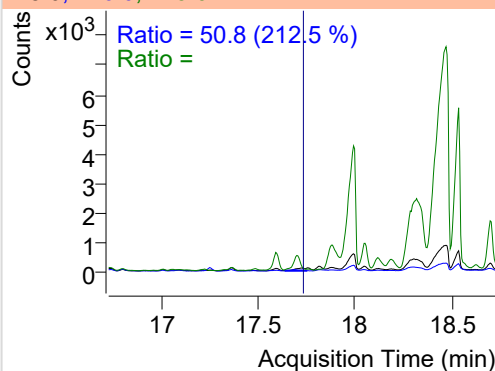
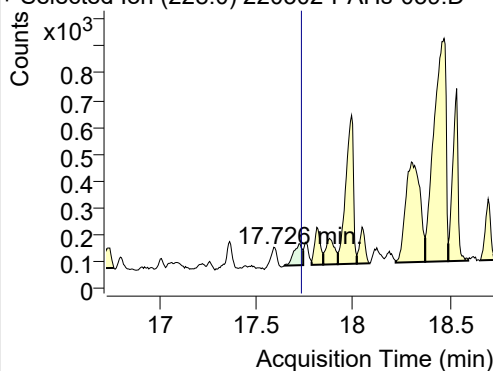
+ SIM (14.825-14.874 min, 10 scans) (**) 2203



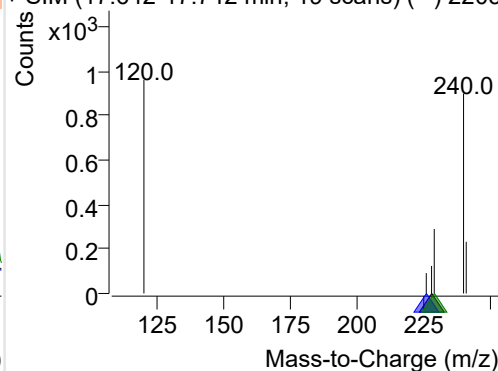
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-039.D

228.0, 226.0, 229.0

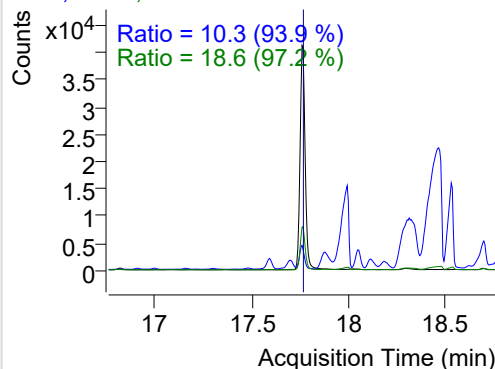
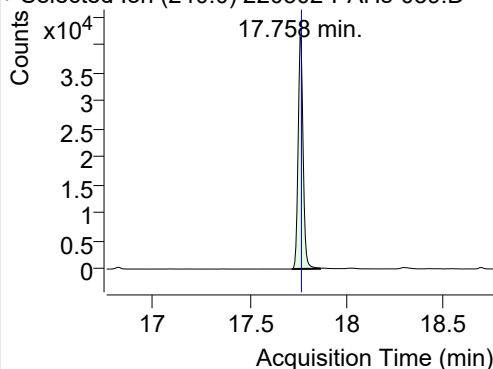


+ SIM (17.642-17.742 min, 19 scans) (**) 2203

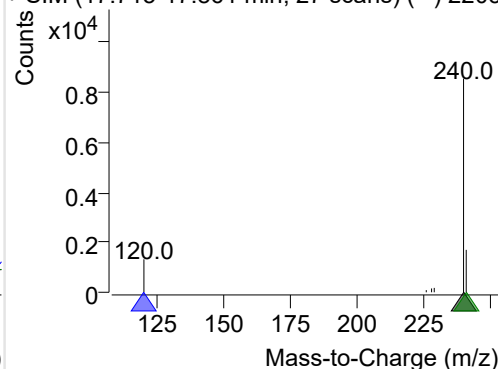
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-039.D

240.0, 120.0, 241.0

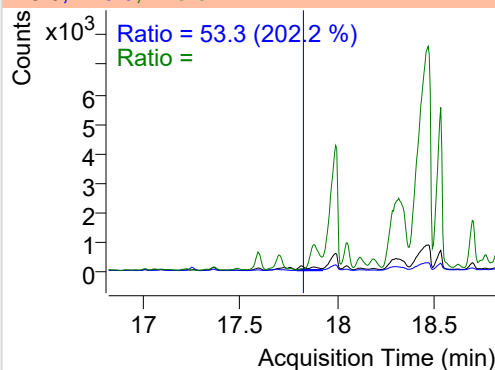
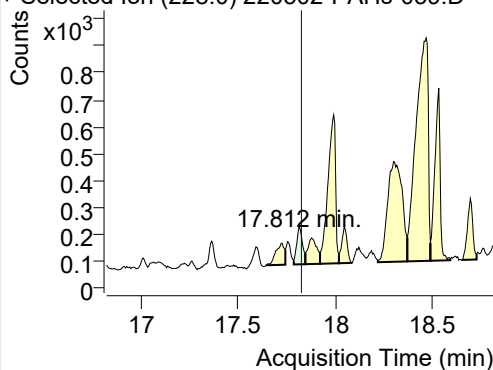


+ SIM (17.715-17.861 min, 27 scans) (**) 2203

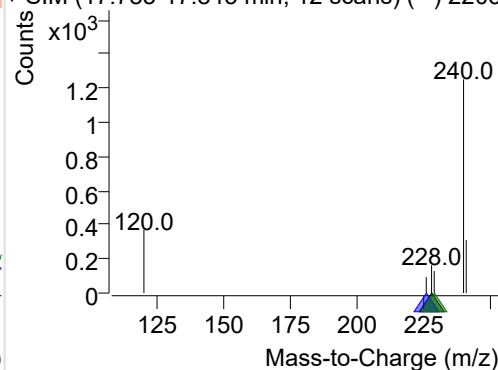
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-039.D

228.0, 226.0, 229.0

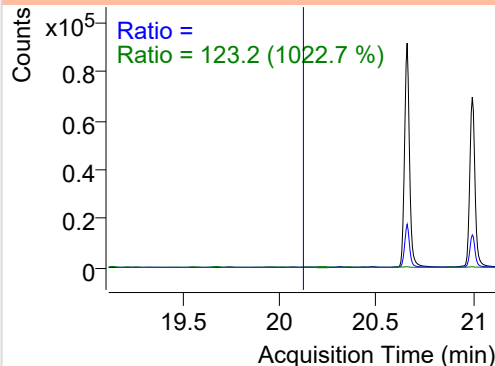
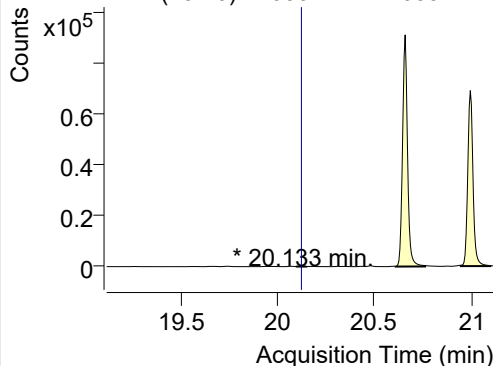


+ SIM (17.785-17.845 min, 12 scans) (**) 2203

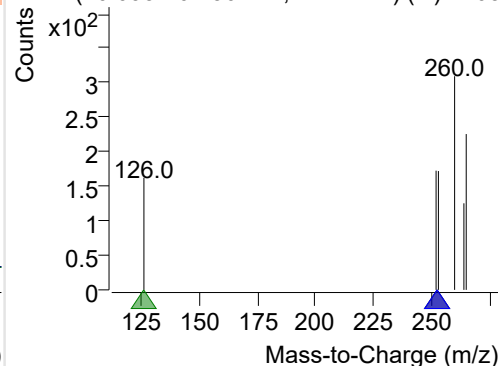
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-039.D

252.0, 253.0, 126.0



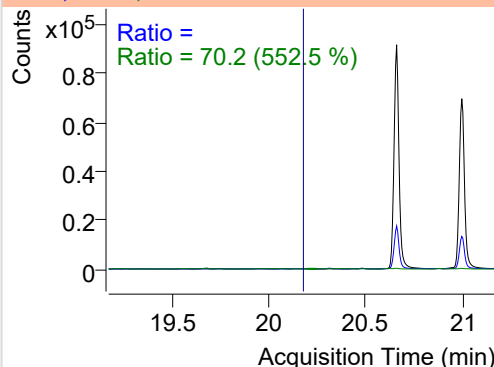
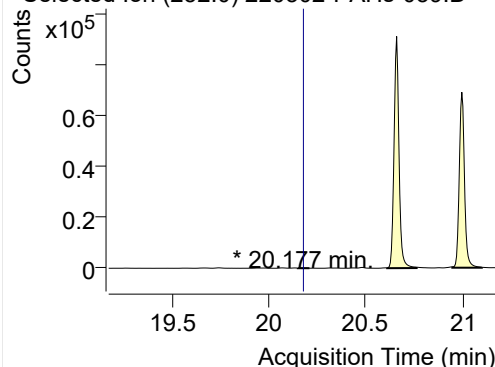
+ SIM (20.095-20.150 min, 11 scans) (**) 2203



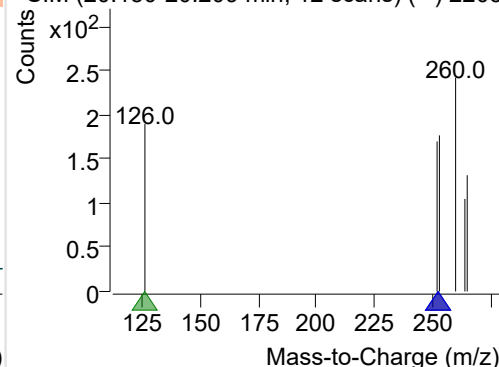
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-039.D

252.0, 253.0, 126.0

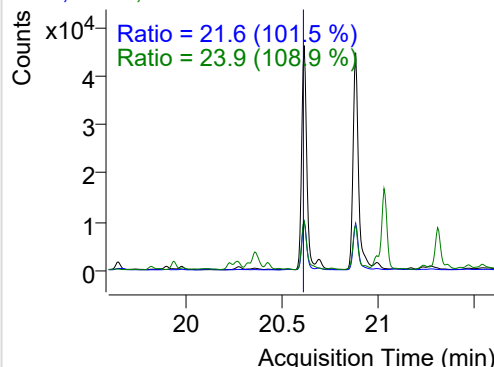
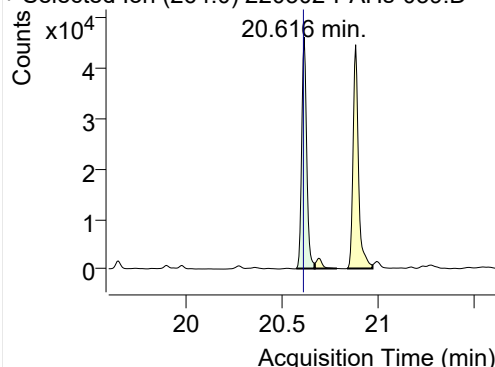


+ SIM (20.150-20.209 min, 12 scans) (**) 2203

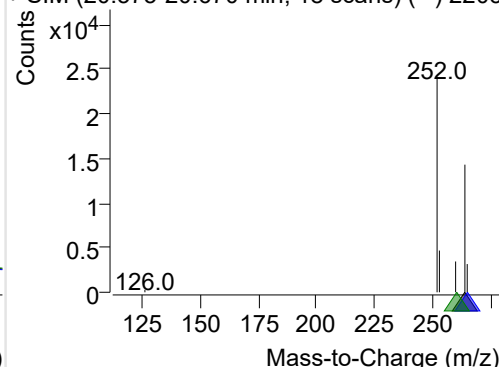
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-039.D

264.0, 265.0, 260.0

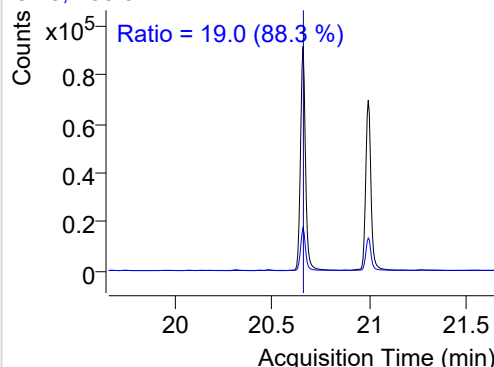
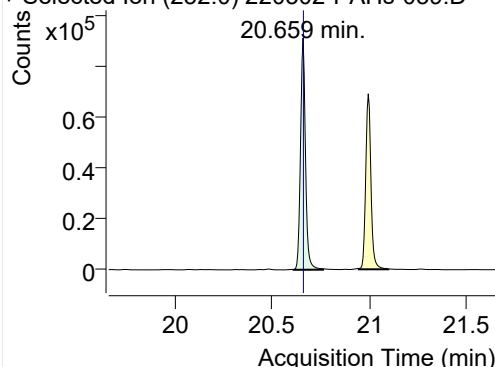


+ SIM (20.575-20.670 min, 18 scans) (**) 2203

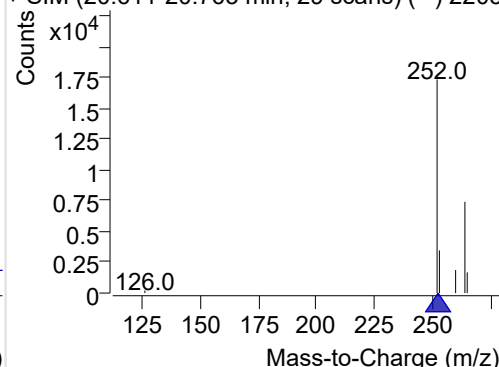
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-039.D

252.0, 253.0

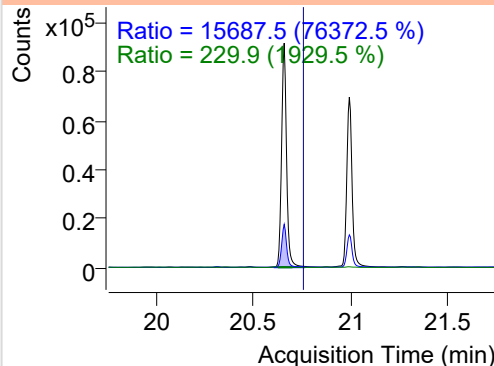
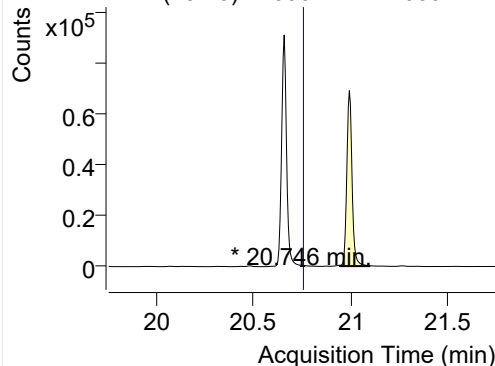


+ SIM (20.611-20.763 min, 29 scans) (**) 2203

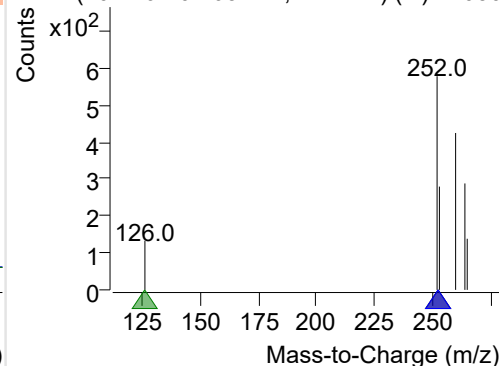
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-039.D

252.0, 253.0, 126.0

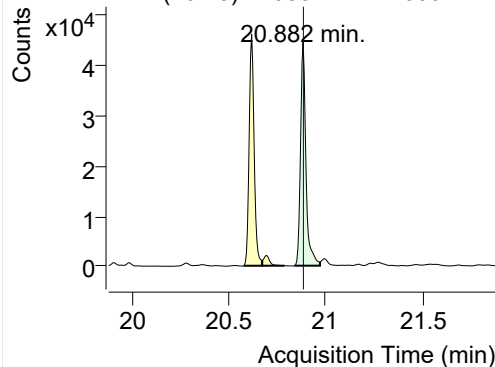


+ SIM (20.746-20.763 min, 4 scans) (**) 22030

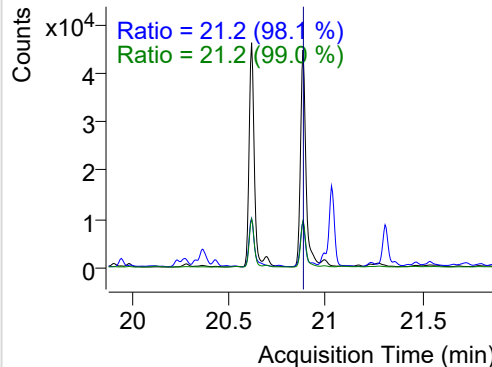


IS-D12-Perylene

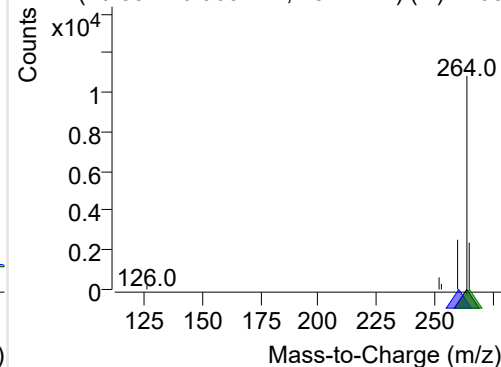
+ Selected Ion (264.0) 220302-PAHs-039.D



264.0, 260.0, 265.0

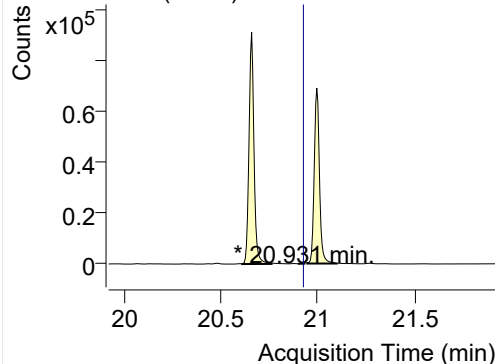


+ SIM (20.837-20.969 min, 25 scans) (**) 2203

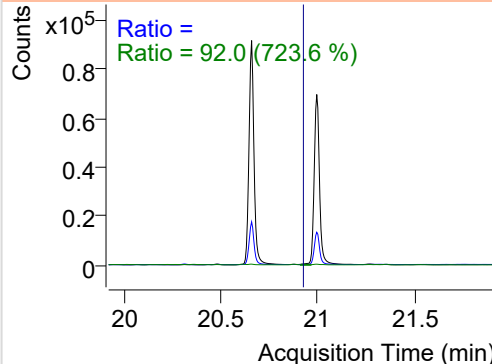


Perylene

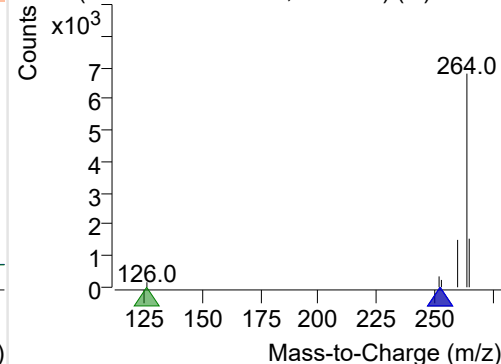
+ Selected Ion (252.0) 220302-PAHs-039.D



252.0, 253.0, 126.0

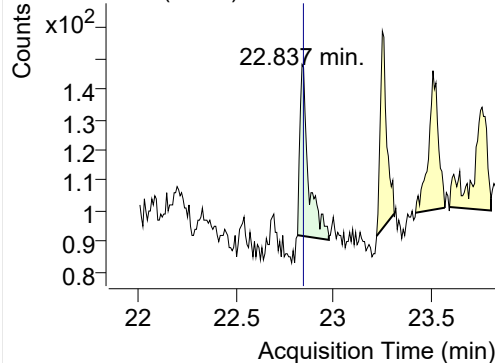


+ SIM (20.898-20.931 min, 7 scans) (**) 22030

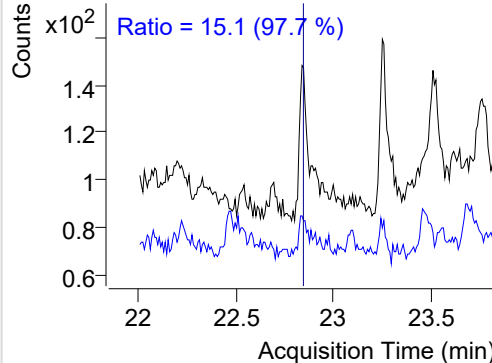


Indeno(1,2,3-c,d)pyrene

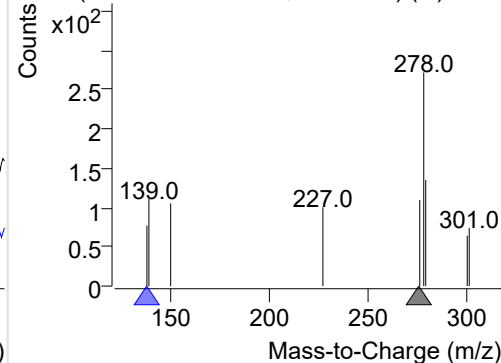
+ Selected Ion (276.0) 220302-PAHs-039.D



276.0, 138.0

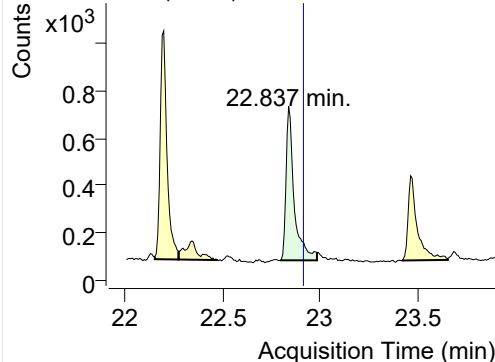


+ SIM (22.814-22.974 min, 21 scans) (**) 2203

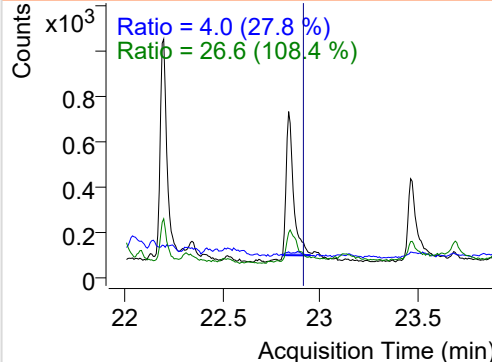


Dibenz(a,h)anthracene

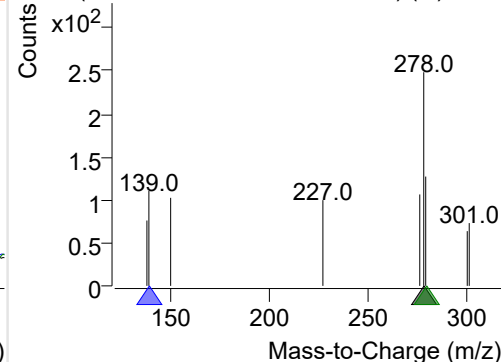
+ Selected Ion (278.0) 220302-PAHs-039.D



278.0, 139.0, 279.0



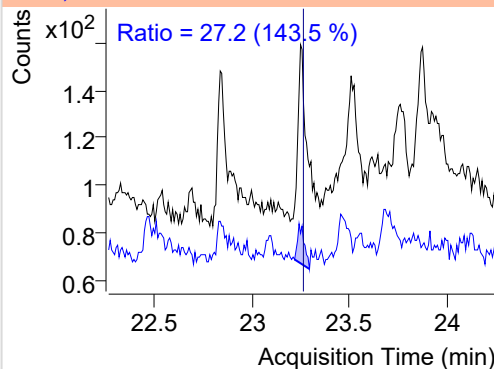
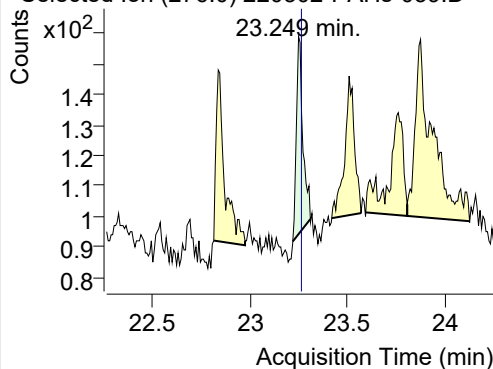
+ SIM (22.794-22.982 min, 25 scans) (**) 2203



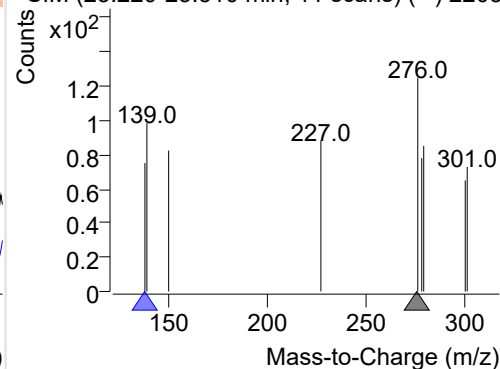
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-039.D

276.0, 138.0

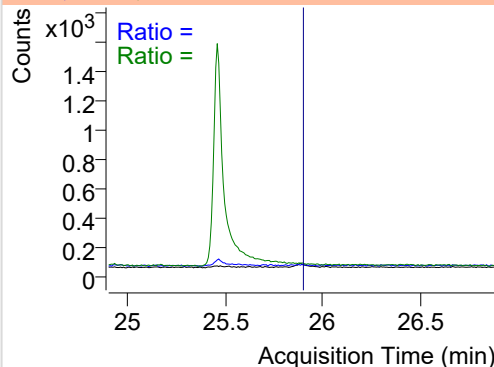
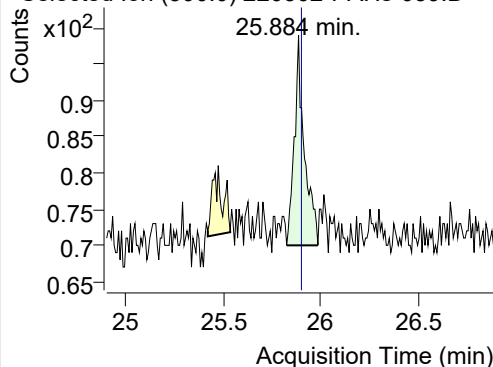


+ SIM (23.220-23.310 min, 11 scans) (**) 2203

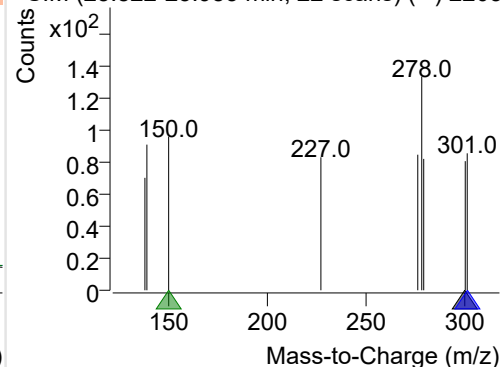
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-039.D

300.0, 301.0, 150.0



+ SIM (25.822-25.983 min, 22 scans) (**) 2203



Quantitative Analysis Sample Based Report

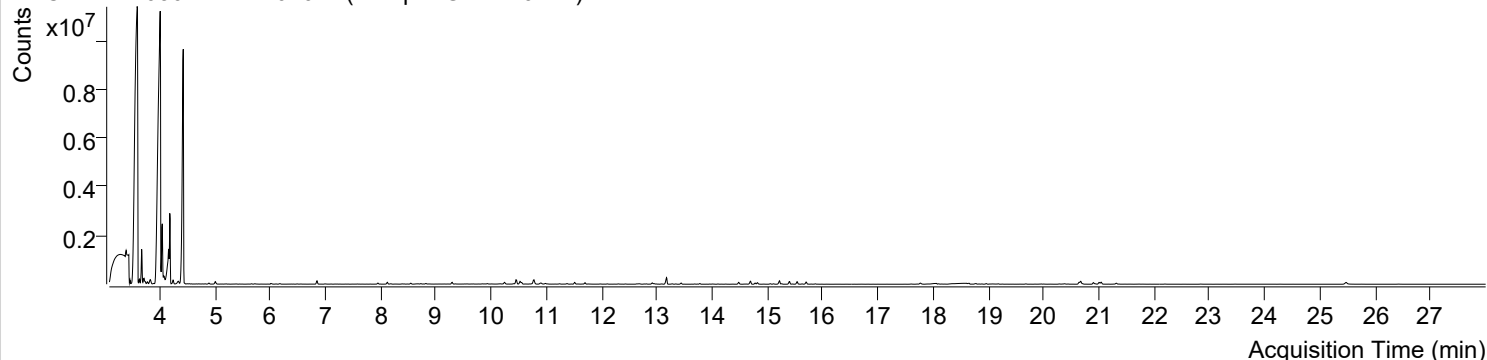


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 6:03:07	Data File	220302-PAHs-040.D
Type	Sample	Name	Sample-Gas-220217
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

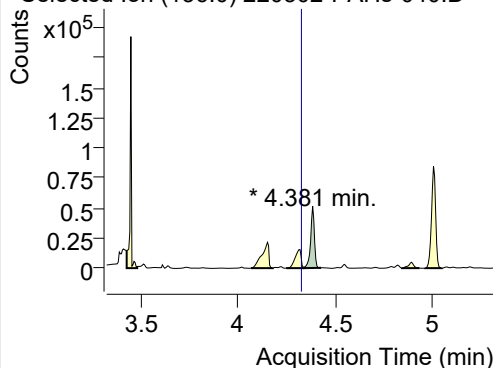
+ TIC SIM 220302-PAHs-040.D (Sample-Gas-220217)



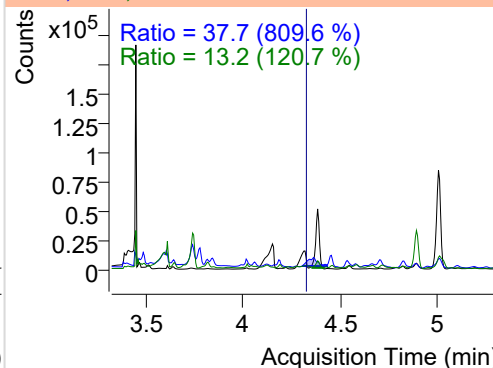
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.381	136.0	67590	51320.72	ND ng/ml	13.2
Naphthalene	4.424	128.0	12316491	7484767.48	ND ng/ml	14.3
Acenaphthylene	7.745	152.0	2698	1999.67	ND ng/ml	30.7
IS-D10-Acenaphthene	8.118	164.0	52121	37159.73	ND ng/ml	88.1
Acenaphthene	8.183	154.0	6655	4556.18	ND ng/ml	111.2
LSS-D10-Fluorene	9.292	176.0	52316	34858.97	ND ng/ml	84.3
Fluorene	9.355	166.0	4911	3169.86	ND ng/ml	78.2
IS-D10-Phenanthrene	11.508	188.0	86068	56015.63	ND ng/ml	15.6
Phenanthrene	11.560	178.0	5996	3728.75	ND ng/ml	17.0
Anthracene	11.697	178.0	26754	16365.65	ND ng/ml	23.8
Fluoranthene	14.359	202.0	1881	1024.46	ND ng/ml	
LSS-D10-Pyrene	14.820	212.0	74448	45935.32	ND ng/ml	17.4
Pyrene	14.858	202.0	2619	1630.65	ND ng/ml	28.8
Benz(a)anthracene	17.720	228.0	587	150.72	ND ng/ml	
IS-D12-Chrysene	17.769	240.0	73509	33785.91	ND ng/ml	18.3
Chrysene	17.720	228.0	587	150.72	ND ng/ml	
Benzo(b)fluoranthene	20.084	252.0	953	624.64	ND ng/ml	
Benzo(k)fluoranthene	20.160	252.0	56	52.57	ND ng/ml	
SS-D12-Benzo(e)pyrene	20.638	264.0	85986	50240.13	ND ng/ml	28.2
Benzo(e)pyrene	20.670	252.0	175367	94510.05	ND ng/ml	19.0
Benzo(a)pyrene	20.746	252.0	175	286.29	ND ng/ml	19009.6
IS-D12-Perylene	20.898	264.0	79767	45205.61	ND ng/ml	20.4
Perylene	20.931	252.0	1298	616.44	ND ng/ml	
Indeno(1,2,3-c,d)pyrene	22.837	276.0	216	66.74	ND ng/ml	39.4
Dibenz(a,h)anthracene	22.837	278.0	8882	3632.04	ND ng/ml	35.2
Benzo(g,h,i)perylene	23.257	276.0	243	63.19	ND ng/ml	16.8
Coronene	25.876	300.0	74	21.96	ND ng/ml	

IS-D8-Naphthalene

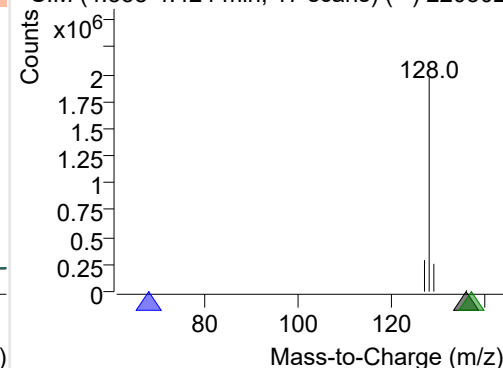
+ Selected Ion (136.0) 220302-PAHs-040.D



136.0, 68.0, 137.0

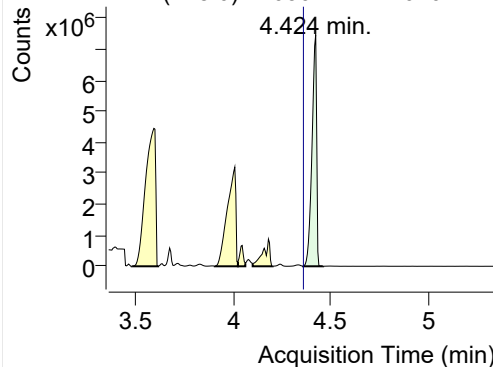


+ SIM (4.338-4.424 min, 17 scans) (**) 220302

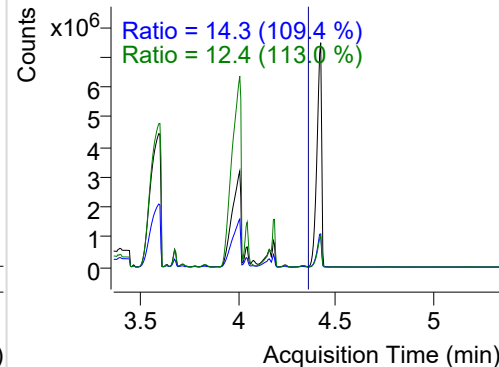


Naphthalene

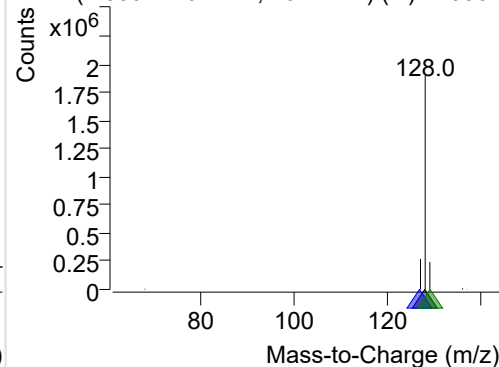
+ Selected Ion (128.0) 220302-PAHs-040.D



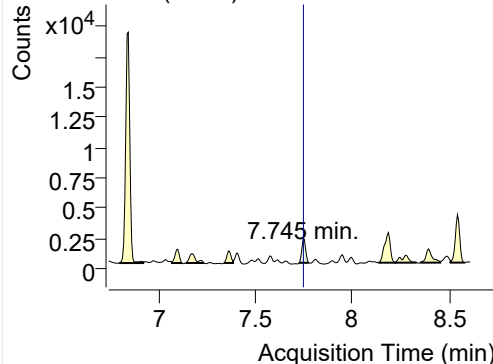
128.0, 127.0, 129.0



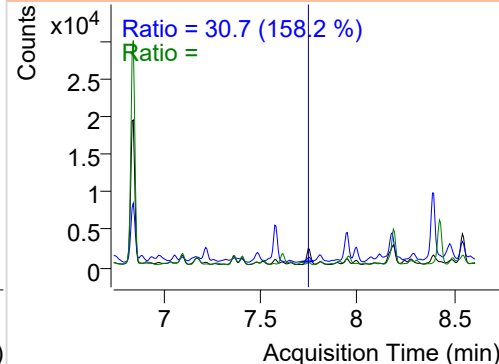
+ SIM (4.359-4.462 min, 20 scans) (**) 220302

**Acenaphthylene**

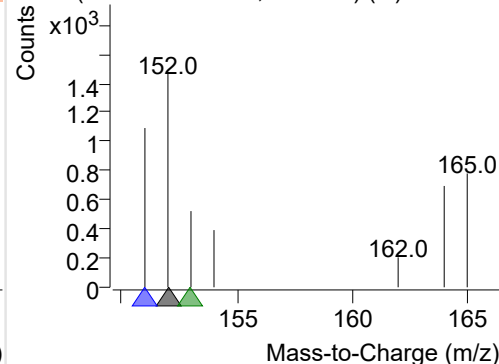
+ Selected Ion (152.0) 220302-PAHs-040.D



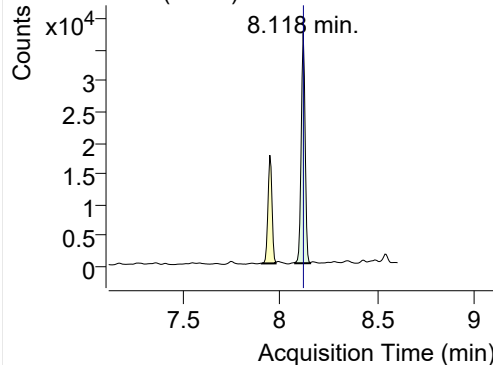
152.0, 151.0, 153.0



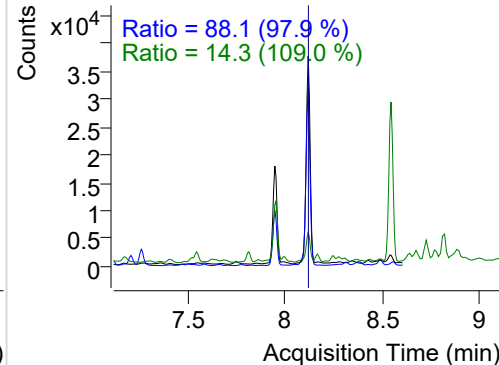
+ SIM (7.724-7.774 min, 8 scans) (**) 220302-I

**IS-D10-Acenaphthene**

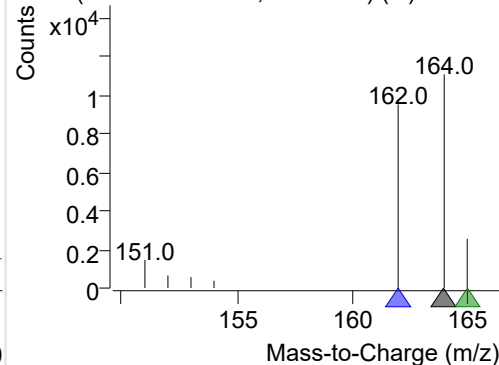
+ Selected Ion (164.0) 220302-PAHs-040.D



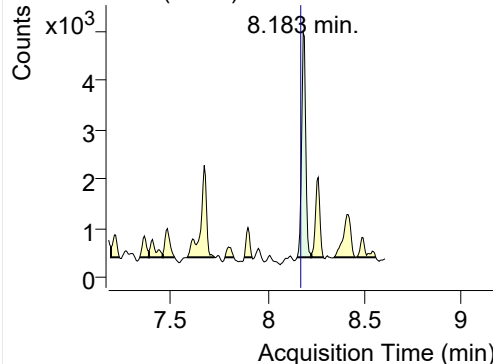
164.0, 162.0, 165.0



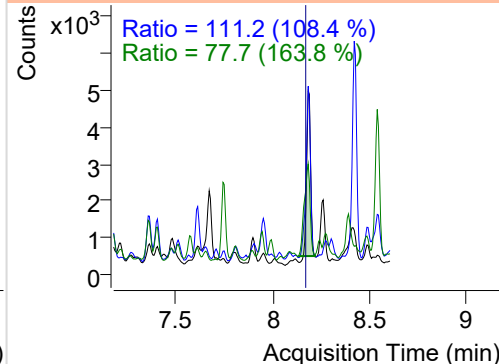
+ SIM (8.077-8.154 min, 14 scans) (**) 220302

**Acenaphthene**

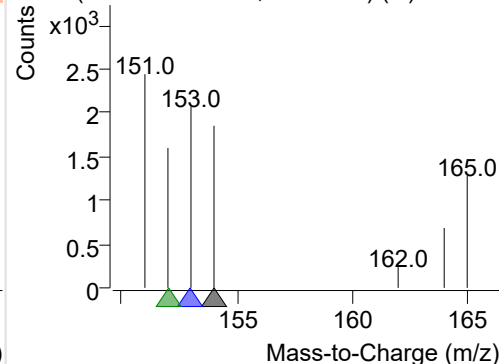
+ Selected Ion (154.0) 220302-PAHs-040.D



154.0, 153.0, 152.0

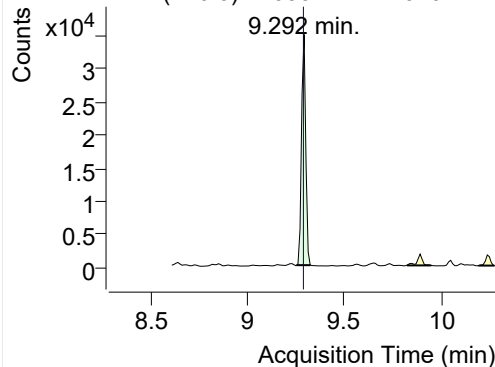


+ SIM (8.152-8.225 min, 13 scans) (**) 220302

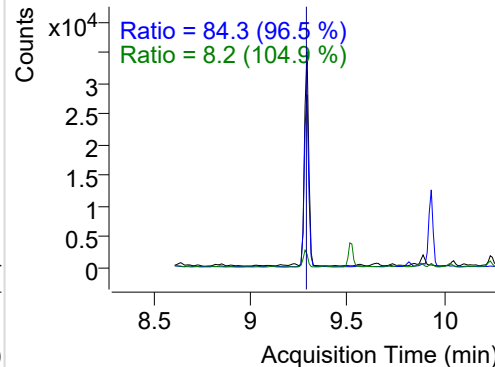


LSS-D10-Fluorene

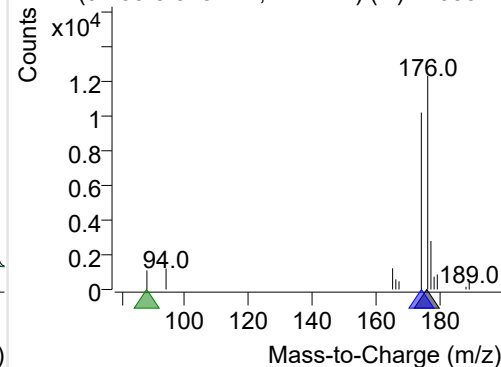
+ Selected Ion (176.0) 220302-PAHs-040.D



176.0, 174.0, 88.0

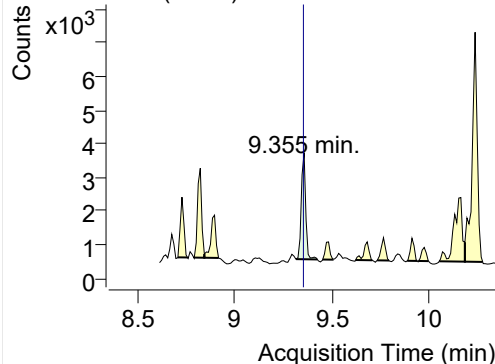


+ SIM (9.253-9.325 min, 7 scans) (**) 220302-I

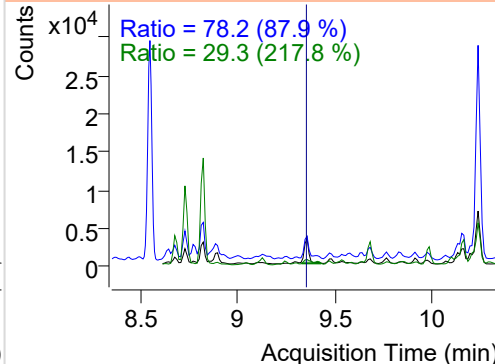


Fluorene

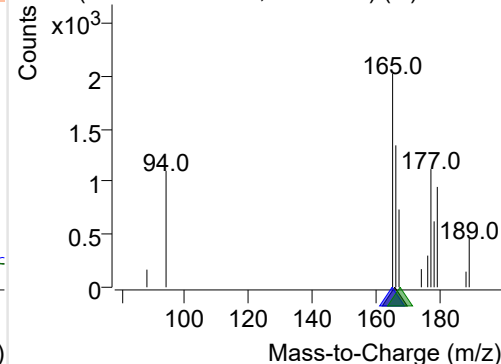
+ Selected Ion (166.0) 220302-PAHs-040.D



166.0, 165.0, 167.0

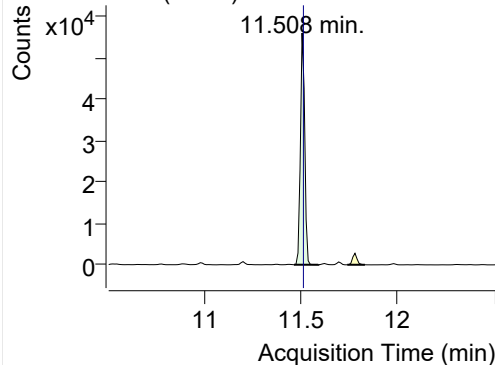


+ SIM (9.313-9.423 min, 10 scans) (**) 220302

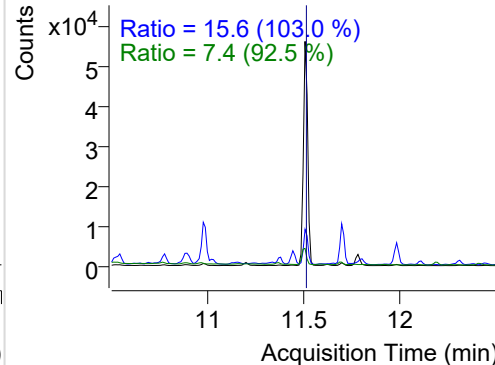


IS-D10-Phenanthrene

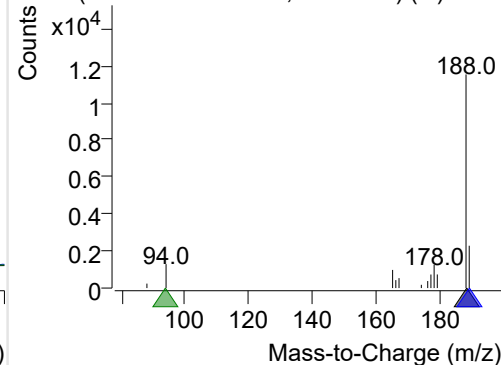
+ Selected Ion (188.0) 220302-PAHs-040.D



188.0, 189.0, 94.0

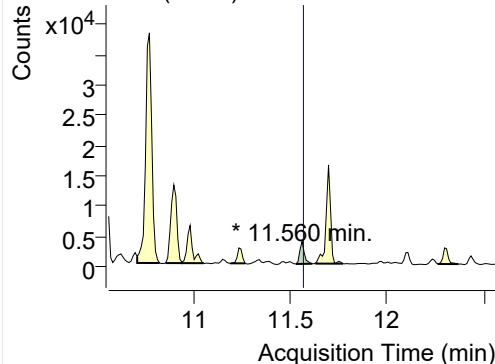


+ SIM (11.466-11.592 min, 12 scans) (**) 2203

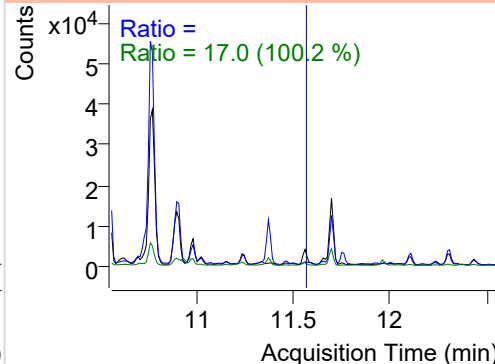


Phenanthrene

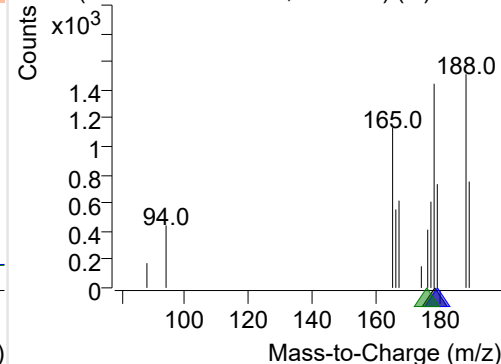
+ Selected Ion (178.0) 220302-PAHs-040.D



178.0, 179.0, 176.0

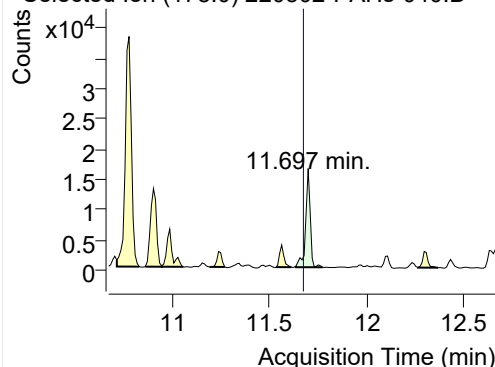


+ SIM (11.529-11.613 min, 9 scans) (**) 22030

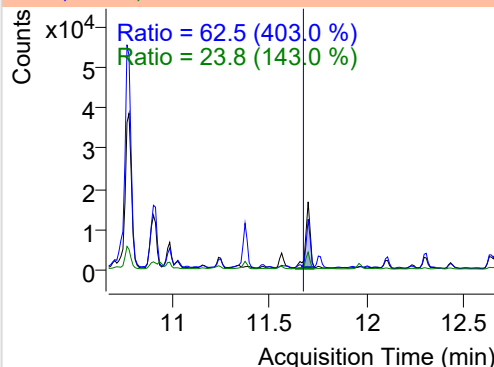


Anthracene

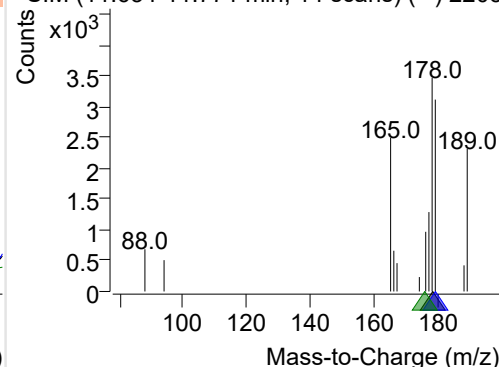
+ Selected Ion (178.0) 220302-PAHs-040.D



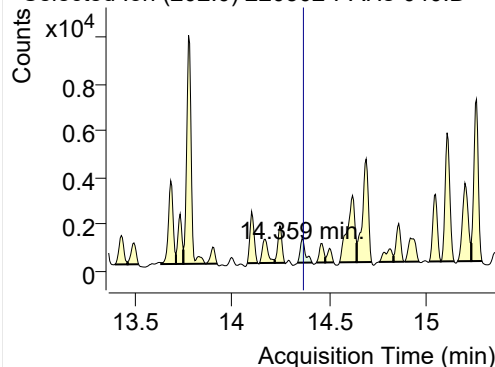
178.0, 179.0, 176.0



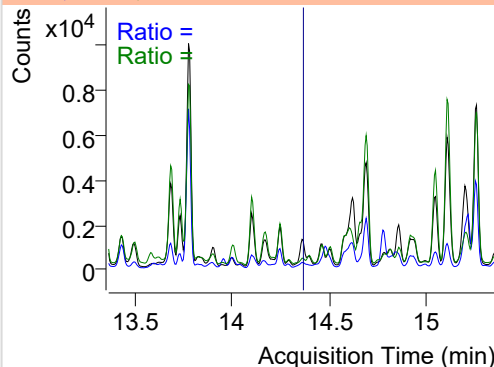
+ SIM (11.634-11.771 min, 14 scans) (**) 2203

**Fluoranthene**

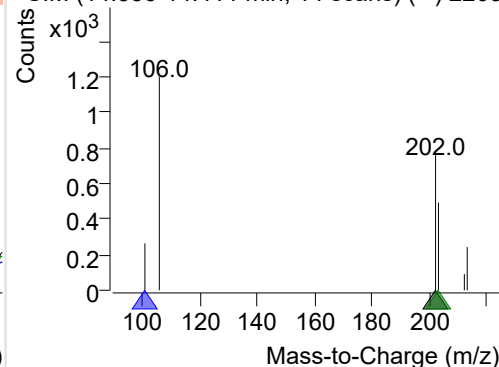
+ Selected Ion (202.0) 220302-PAHs-040.D



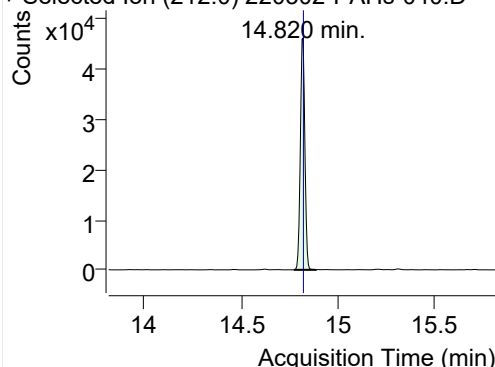
202.0, 101.0, 203.0



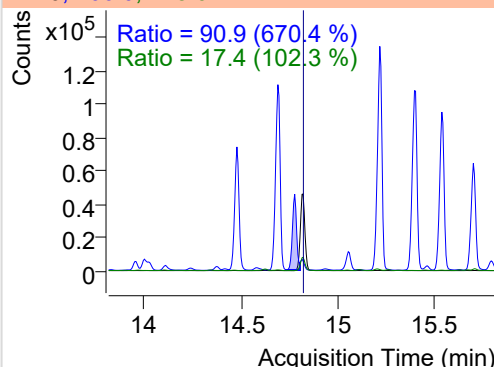
+ SIM (14.336-14.411 min, 14 scans) (**) 2203

**LSS-D10-Pyrene**

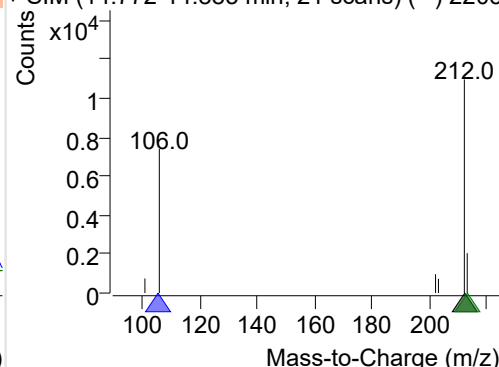
+ Selected Ion (212.0) 220302-PAHs-040.D



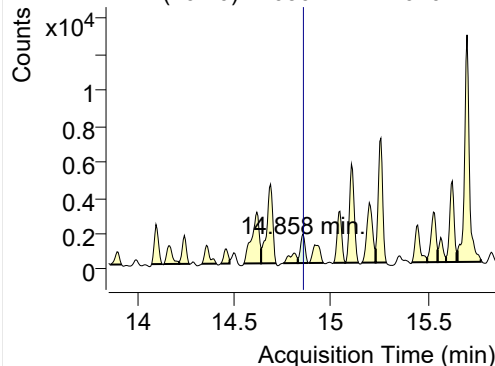
212.0, 106.0, 213.0



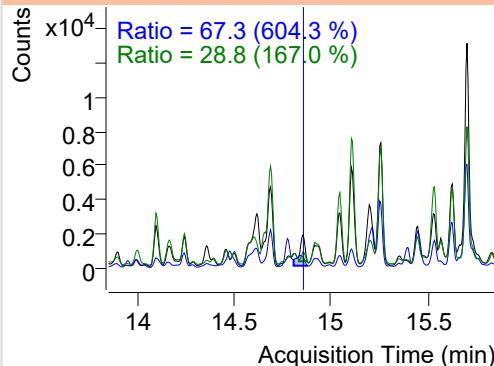
+ SIM (14.772-14.885 min, 21 scans) (**) 2203

**Pyrene**

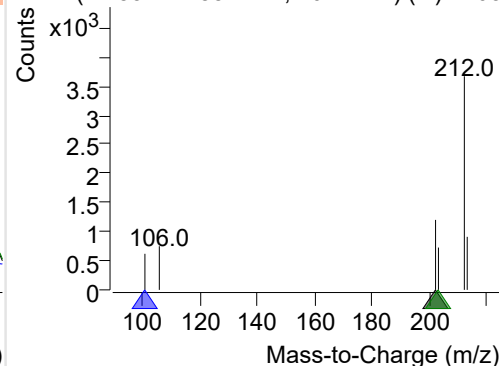
+ Selected Ion (202.0) 220302-PAHs-040.D



202.0, 101.0, 203.0



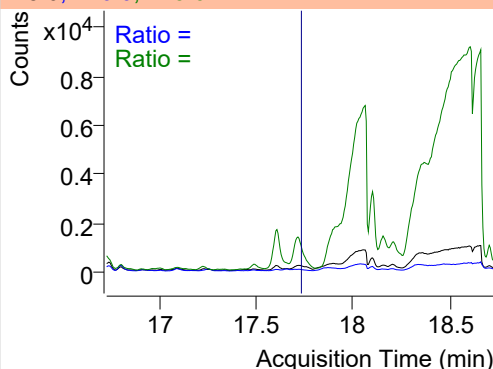
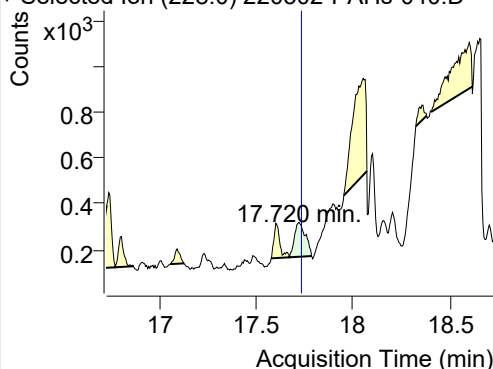
+ SIM (14.831-14.884 min, 10 scans) (**) 2203



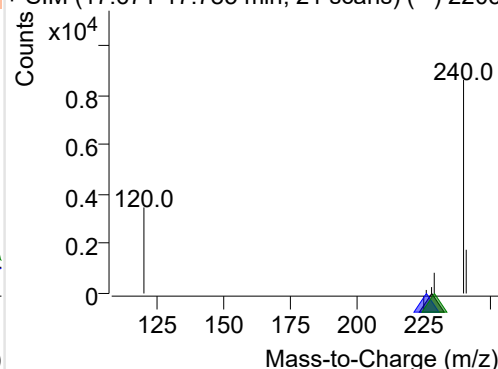
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-040.D

228.0, 226.0, 229.0

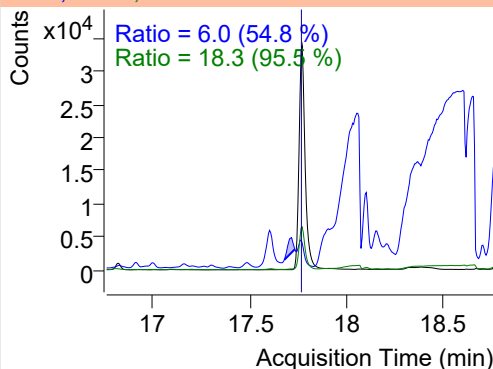
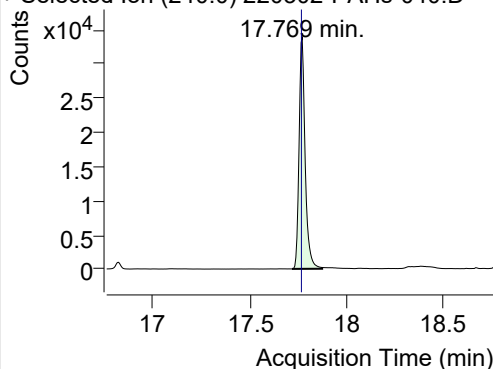


+ SIM (17.671-17.785 min, 21 scans) (**) 2203

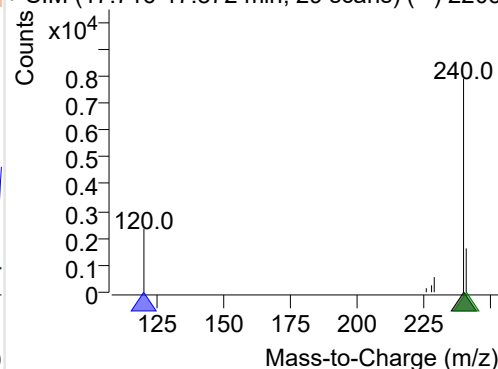
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-040.D

240.0, 120.0, 241.0

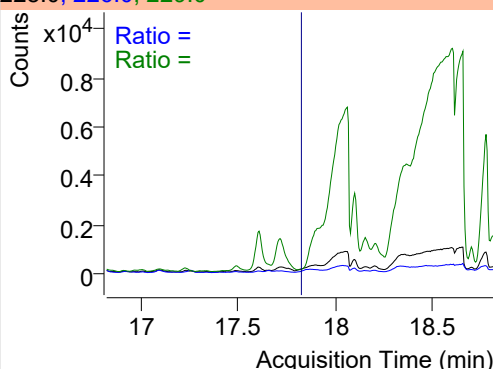
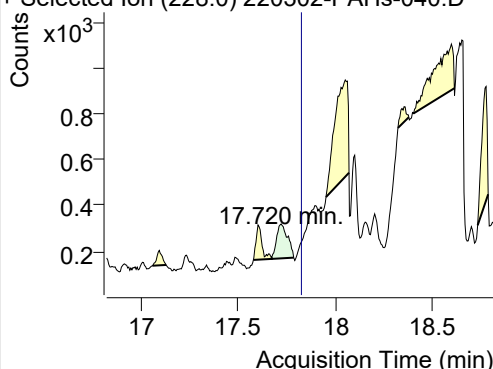


+ SIM (17.716-17.872 min, 29 scans) (**) 2203

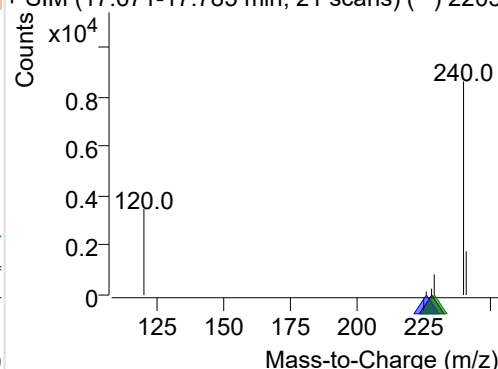
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-040.D

228.0, 226.0, 229.0

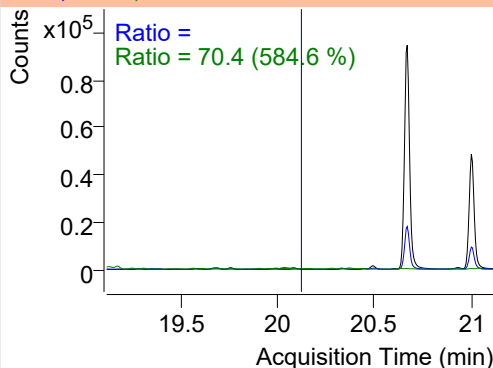
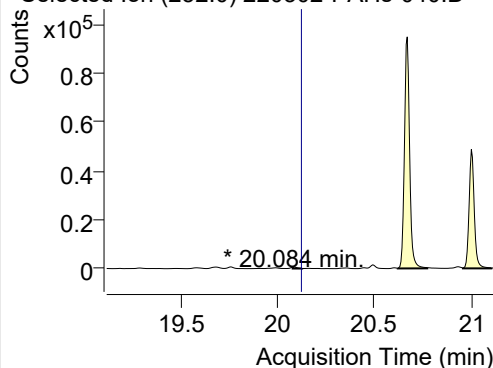


+ SIM (17.671-17.785 min, 21 scans) (**) 2203

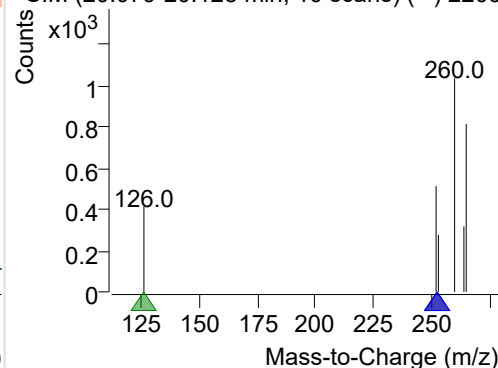
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-040.D

252.0, 253.0, 126.0



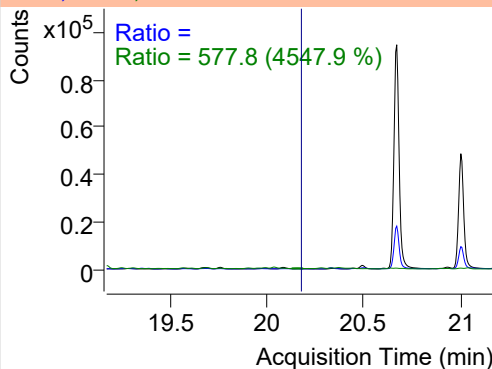
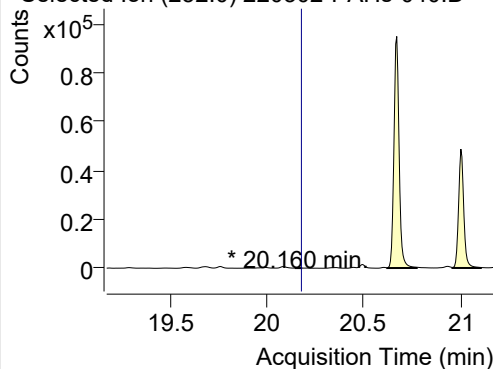
+ SIM (20.079-20.128 min, 10 scans) (**) 2203



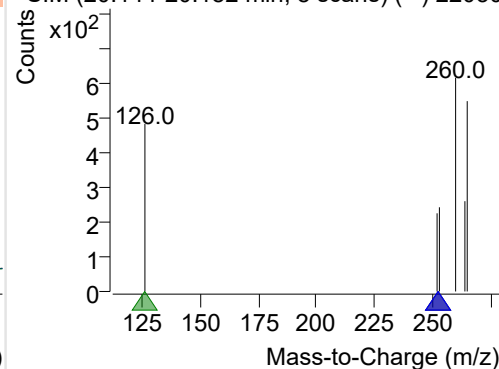
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-040.D

252.0, 253.0, 126.0

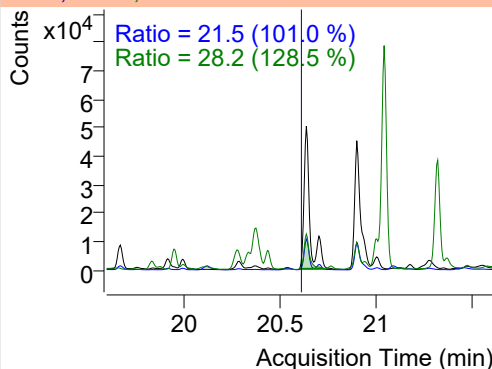
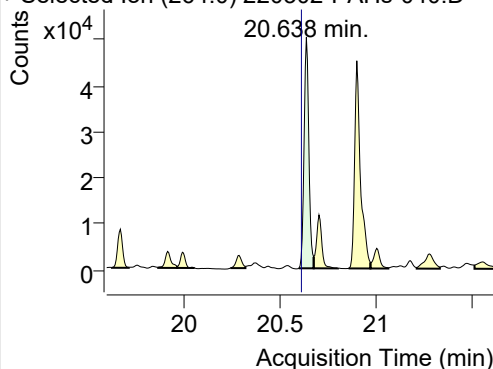


+ SIM (20.144-20.182 min, 8 scans) (**) 22030

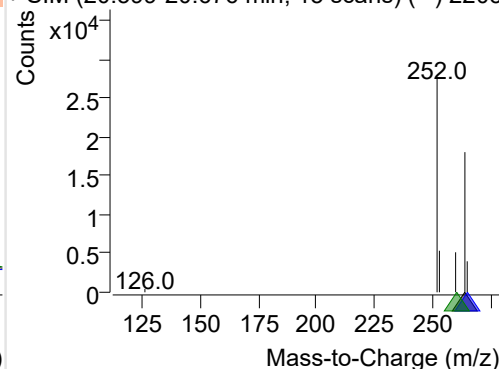
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-040.D

264.0, 265.0, 260.0

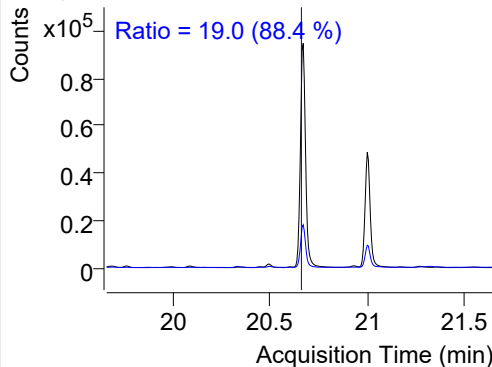
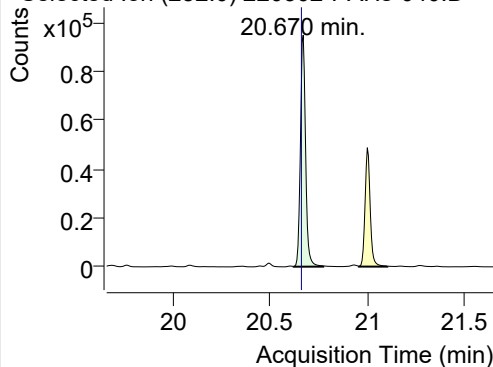


+ SIM (20.599-20.676 min, 15 scans) (**) 2203

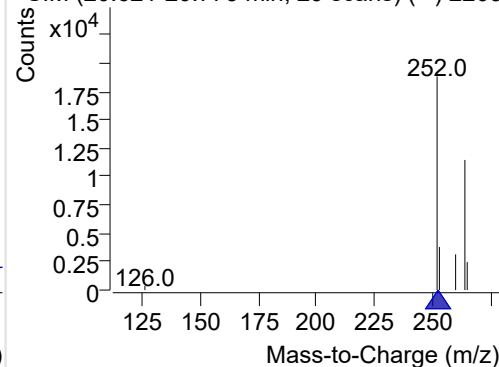
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-040.D

252.0, 253.0

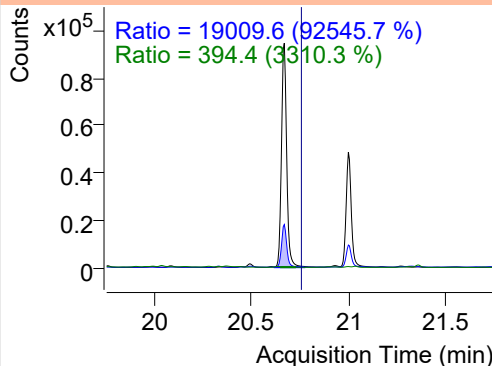
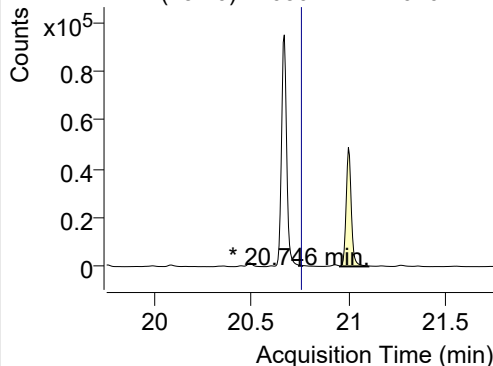


+ SIM (20.621-20.773 min, 29 scans) (**) 2203

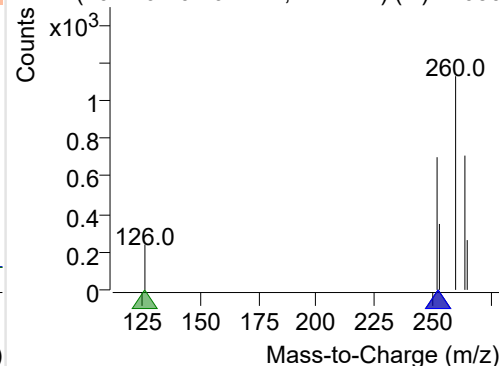
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-040.D

252.0, 253.0, 126.0

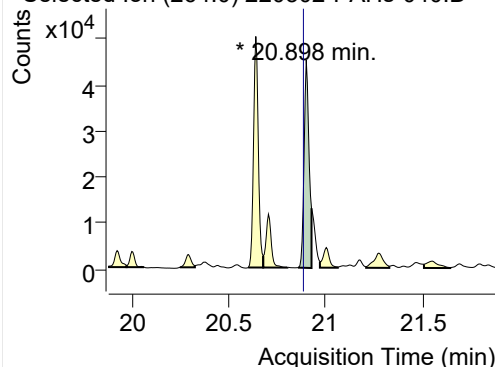


+ SIM (20.746-20.762 min, 4 scans) (**) 22030

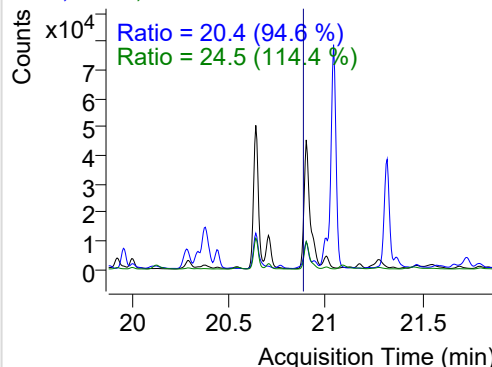


IS-D12-Perylene

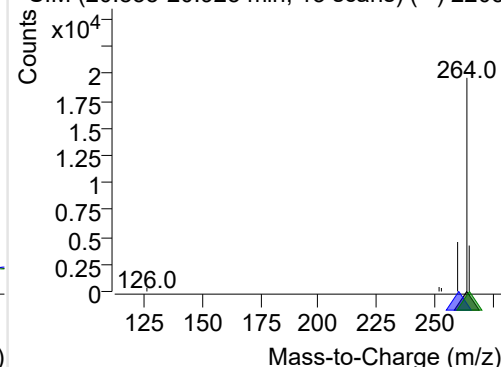
+ Selected Ion (264.0) 220302-PAHs-040.D



264.0, 260.0, 265.0

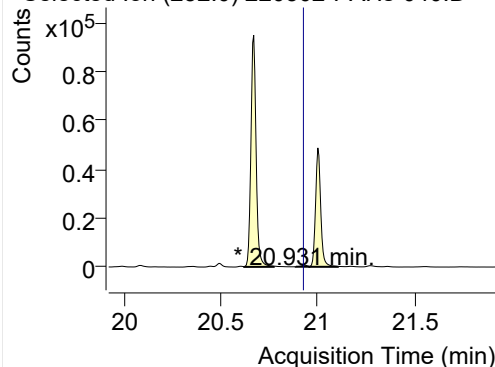


+ SIM (20.855-20.925 min, 13 scans) (**) 2203

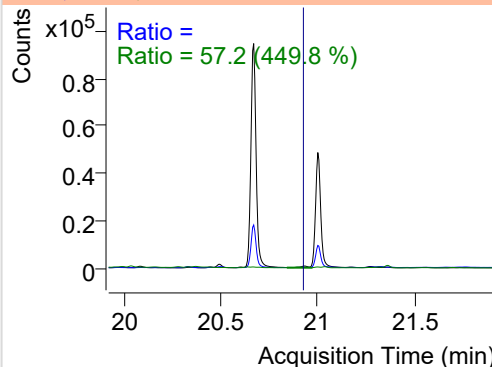


Perylene

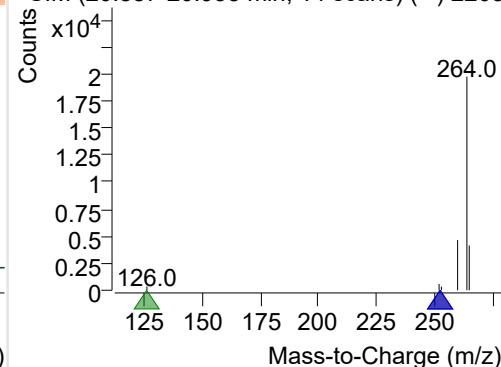
+ Selected Ion (252.0) 220302-PAHs-040.D



252.0, 253.0, 126.0

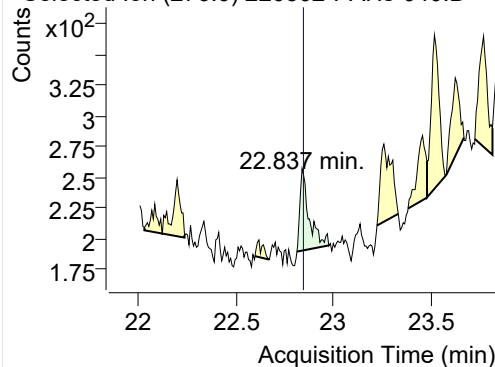


+ SIM (20.887-20.958 min, 14 scans) (**) 2203

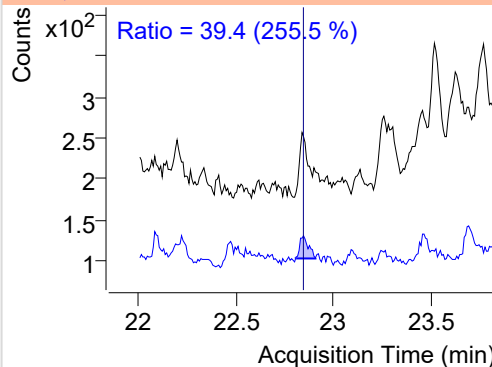


Indeno(1,2,3-c,d)pyrene

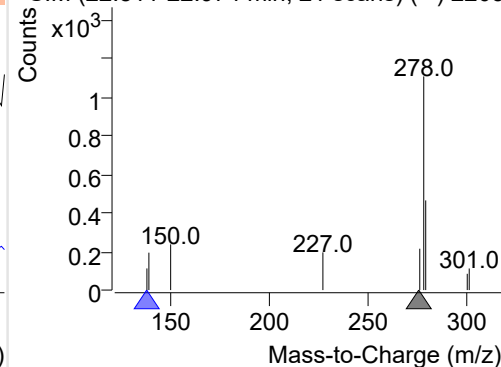
+ Selected Ion (276.0) 220302-PAHs-040.D



276.0, 138.0

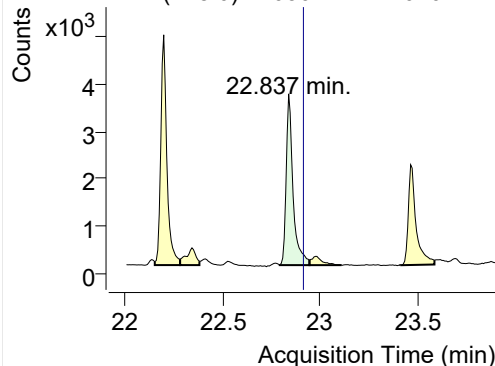


+ SIM (22.811-22.974 min, 21 scans) (**) 2203

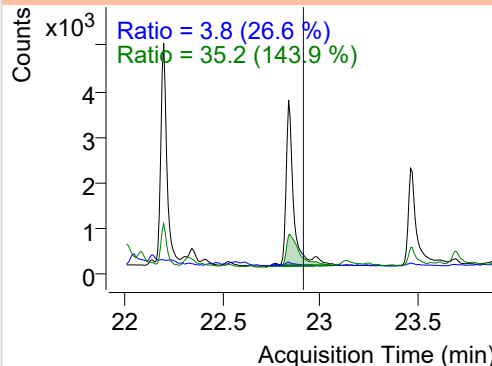


Dibenz(a,h)anthracene

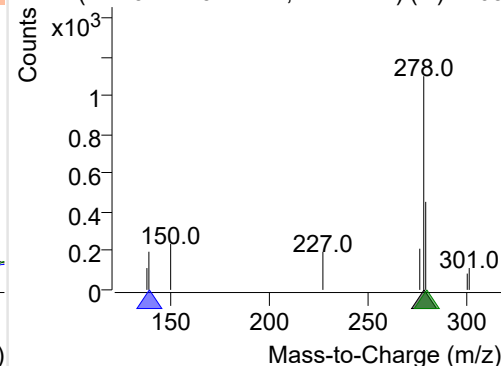
+ Selected Ion (278.0) 220302-PAHs-040.D



278.0, 139.0, 279.0

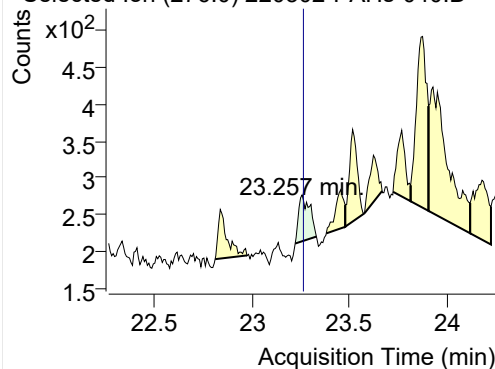


+ SIM (22.791-22.944 min, 21 scans) (**) 2203

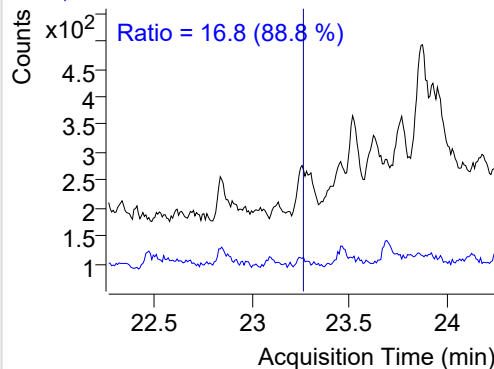


Benzo(g,h,i)perylene

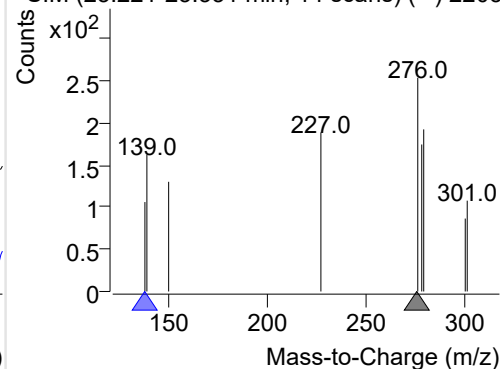
+ Selected Ion (276.0) 220302-PAHs-040.D



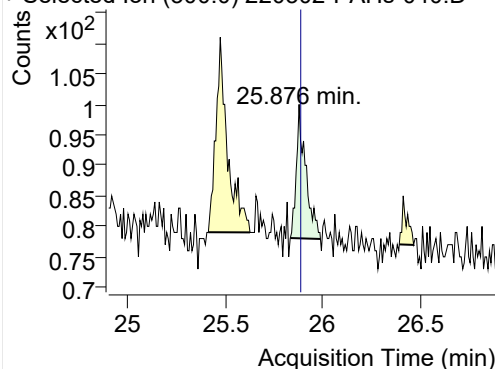
276.0, 138.0



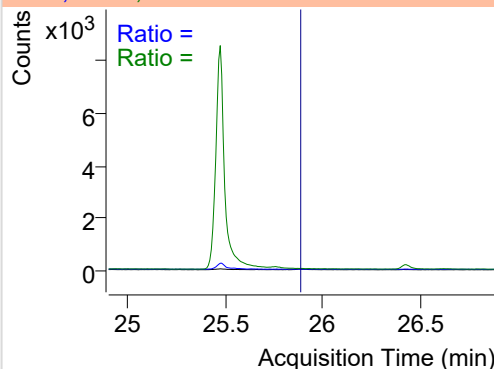
+ SIM (23.221-23.331 min, 14 scans) (**) 2203

**Coronene**

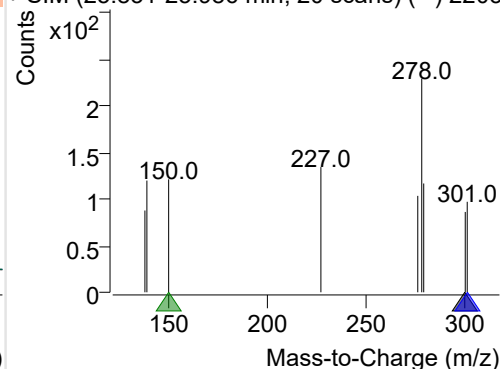
+ Selected Ion (300.0) 220302-PAHs-040.D



300.0, 301.0, 150.0



+ SIM (25.831-25.986 min, 20 scans) (**) 2203



Quantitative Analysis Sample Based Report

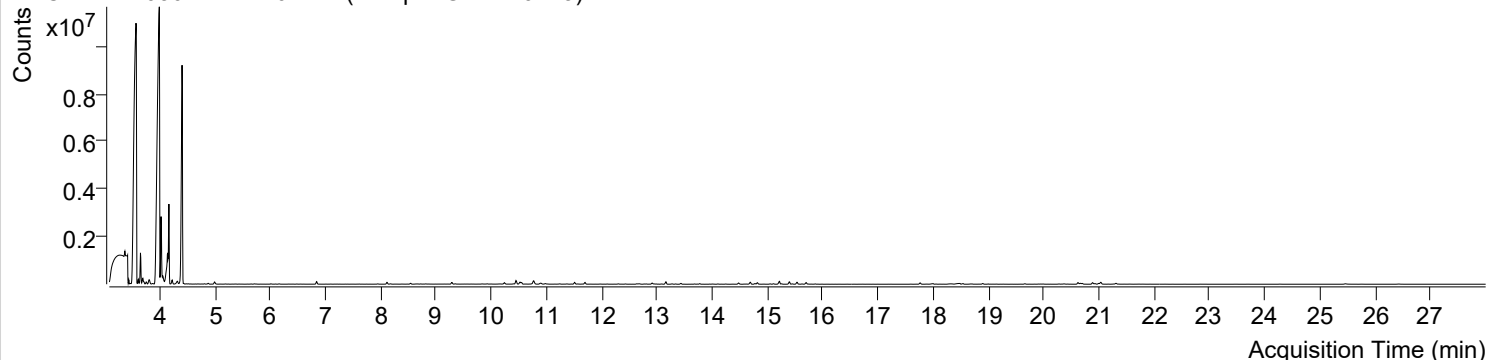


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 6:34:17	Data File	220302-PAHs-041.D
Type	Sample	Name	Sample-Gas-220223
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

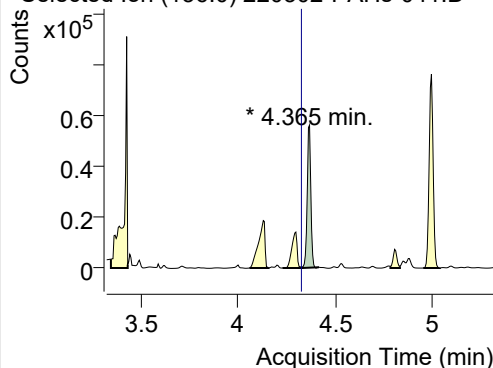
+ TIC SIM 220302-PAHs-041.D (Sample-Gas-220223)



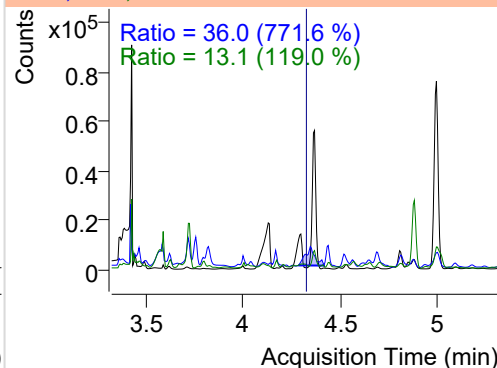
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.365	136.0	71719	56084.39	ND ng/ml	13.1
Naphthalene	4.403	128.0	10499884	7159648.21	ND ng/ml	14.2
Acenaphthylene	7.745	152.0	1998	1487.71	ND ng/ml	31.1
IS-D10-Acenaphthene	8.112	164.0	53651	37560.57	ND ng/ml	87.5
Acenaphthene	8.183	154.0	6650	4460.32	ND ng/ml	109.3
LSS-D10-Fluorene	9.292	176.0	53671	32552.32	ND ng/ml	83.2
Fluorene	9.345	166.0	7531	4841.73	ND ng/ml	99.9
IS-D10-Phenanthrene	11.508	188.0	89020	59574.99	ND ng/ml	15.1
Phenanthrene	11.560	178.0	8066	5062.25	ND ng/ml	18.1
Anthracene	11.697	178.0	30207	19568.92	ND ng/ml	25.7
Fluoranthene	14.359	202.0	2022	894.49	ND ng/ml	41.3
LSS-D10-Pyrene	14.814	212.0	75113	47335.20	ND ng/ml	17.5
Pyrene	14.858	202.0	2407	1405.49	ND ng/ml	41.8
Benz(a)anthracene	17.731	228.0	253	101.38	ND ng/ml	94.6
IS-D12-Chrysene	17.763	240.0	74167	43092.57	ND ng/ml	18.7
Chrysene	17.818	228.0	210	153.00	ND ng/ml	33.2
Benzo(b)fluoranthene	20.133	252.0	289	162.51	ND ng/ml	
Benzo(k)fluoranthene	20.480	252.0	3057	1589.79	ND ng/ml	34.3
SS-D12-Benzo(e)pyrene	20.621	264.0	79731	45293.10	ND ng/ml	27.5
Benzo(e)pyrene	20.659	252.0	58699	28039.44	ND ng/ml	19.3
Benzo(a)pyrene	20.746	252.0	386	252.41	ND ng/ml	
IS-D12-Perylene	20.882	264.0	77183	43542.31	ND ng/ml	21.5
Perylene	20.925	252.0	2170	1132.84	ND ng/ml	12.2
Indeno(1,2,3-c,d)pyrene	22.845	276.0	290	92.55	ND ng/ml	71.9
Dibenz(a,h)anthracene	22.837	278.0	2662	935.34	ND ng/ml	35.7
Benzo(g,h,i)perylene	23.257	276.0	283	115.64	ND ng/ml	22.6
Coronene	25.876	300.0	180	48.19	ND ng/ml	28.7

IS-D8-Naphthalene

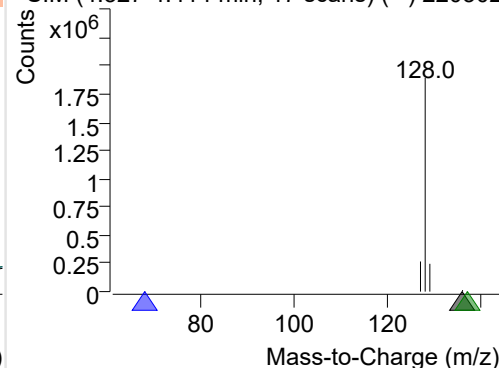
+ Selected Ion (136.0) 220302-PAHs-041.D



136.0, 68.0, 137.0

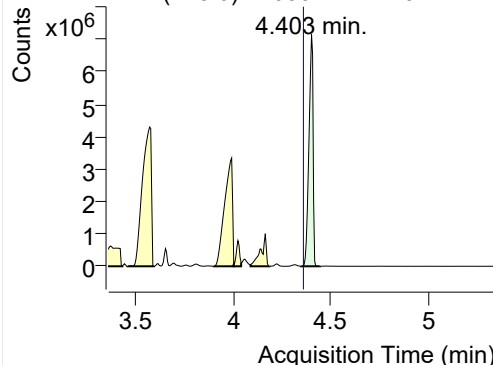


+ SIM (4.327-4.414 min, 17 scans) (**) 220302

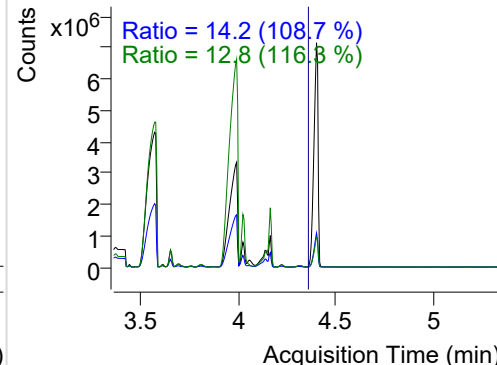


Naphthalene

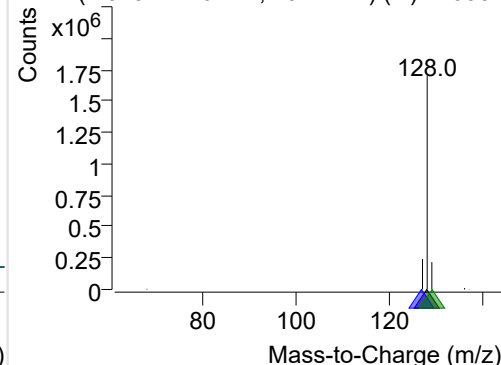
+ Selected Ion (128.0) 220302-PAHs-041.D



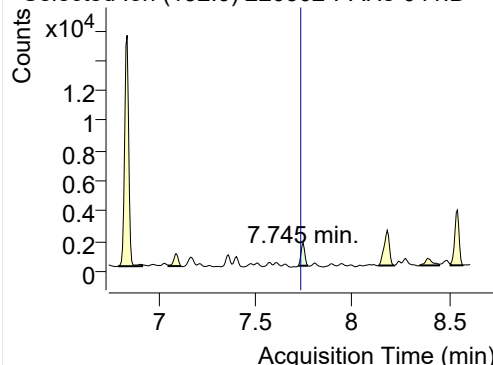
128.0, 127.0, 129.0



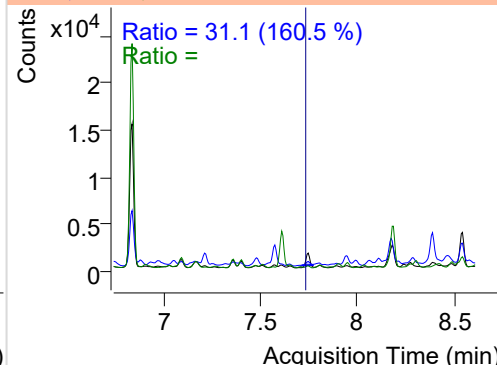
+ SIM (4.349-4.446 min, 19 scans) (**) 220302

**Acenaphthylene**

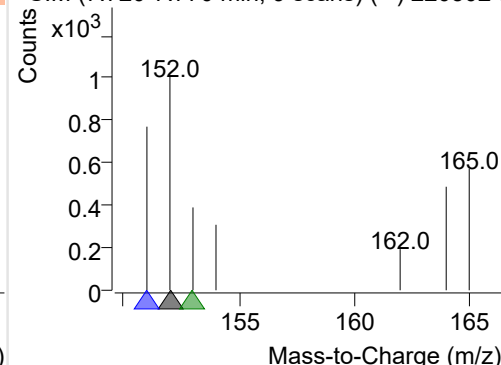
+ Selected Ion (152.0) 220302-PAHs-041.D



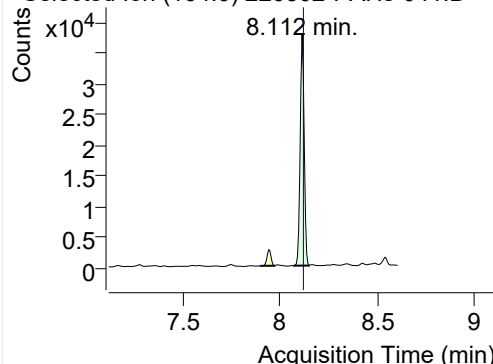
152.0, 151.0, 153.0



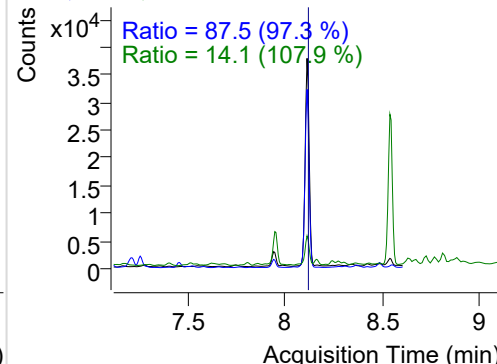
+ SIM (7.720-7.770 min, 9 scans) (**) 220302-I

**IS-D10-Acenaphthene**

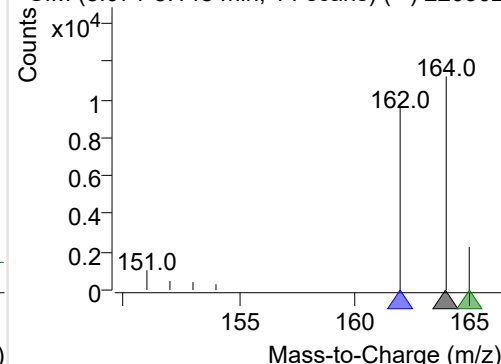
+ Selected Ion (164.0) 220302-PAHs-041.D



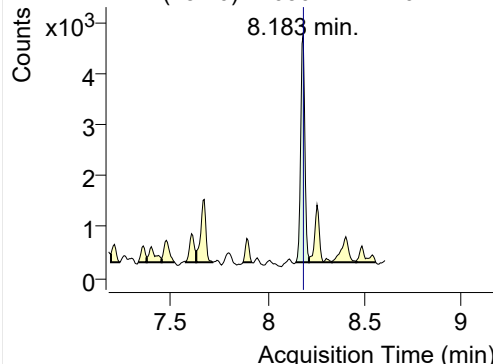
164.0, 162.0, 165.0



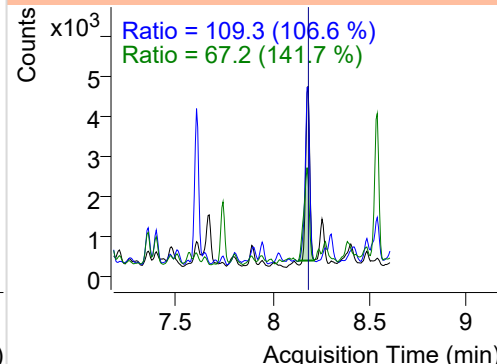
+ SIM (8.071-8.148 min, 14 scans) (**) 220302

**Acenaphthene**

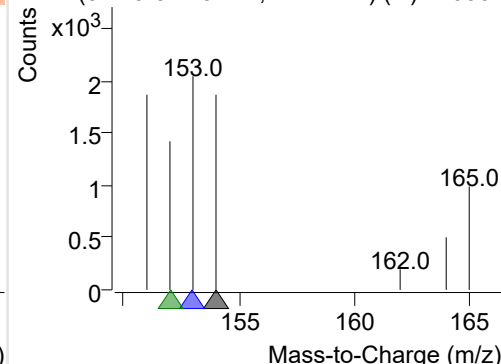
+ Selected Ion (154.0) 220302-PAHs-041.D



154.0, 153.0, 152.0

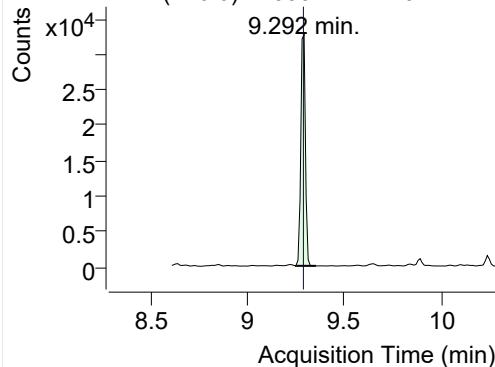


+ SIM (8.145-8.213 min, 12 scans) (**) 220302

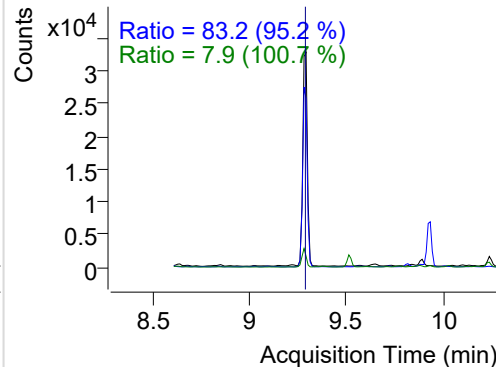


LSS-D10-Fluorene

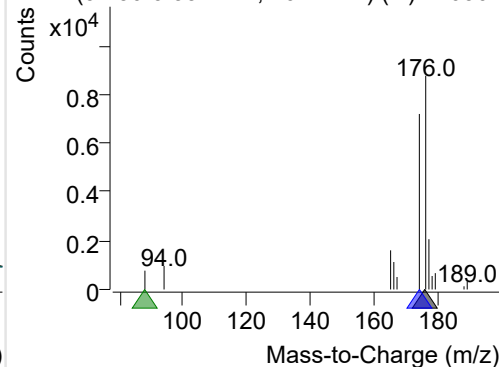
+ Selected Ion (176.0) 220302-PAHs-041.D



176.0, 174.0, 88.0

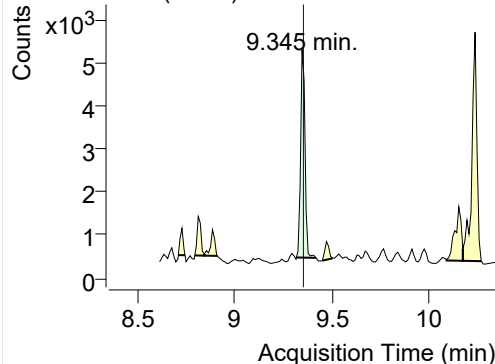


+ SIM (9.250-9.352 min, 10 scans) (**) 220302

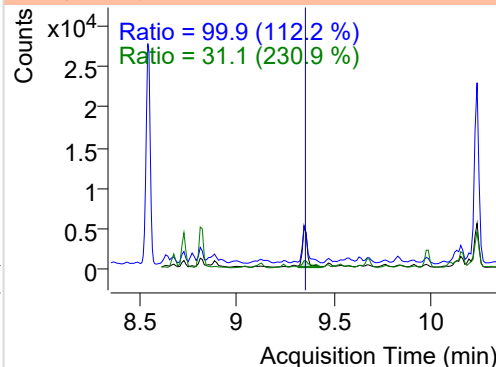


Fluorene

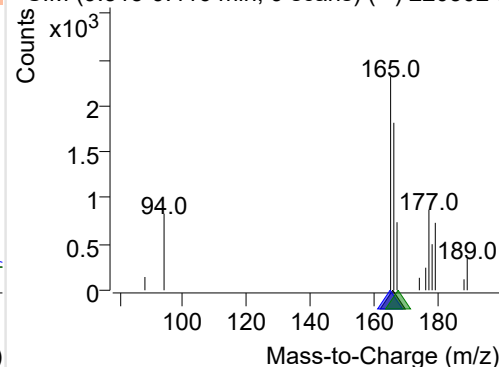
+ Selected Ion (166.0) 220302-PAHs-041.D



166.0, 165.0, 167.0

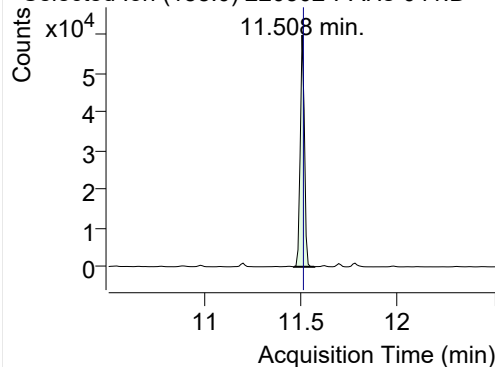


+ SIM (9.315-9.416 min, 9 scans) (**) 220302-I

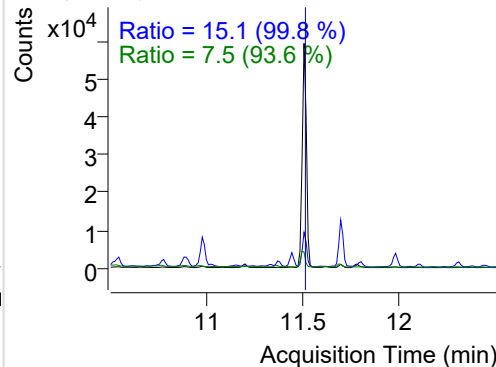


IS-D10-Phenanthrene

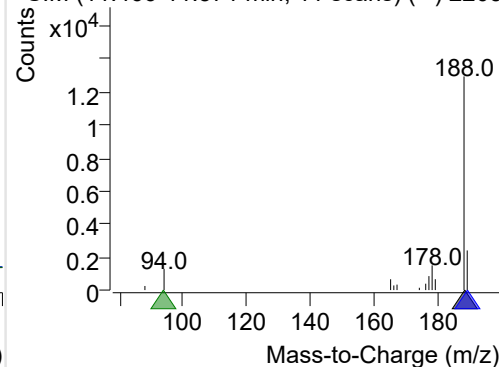
+ Selected Ion (188.0) 220302-PAHs-041.D



188.0, 189.0, 94.0

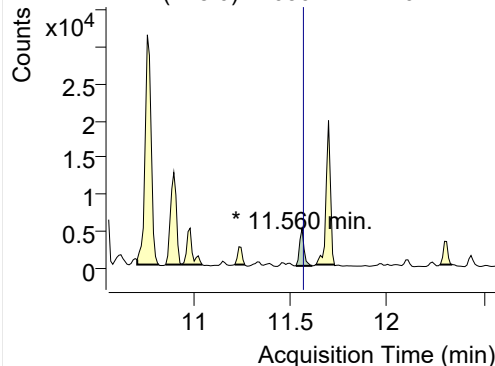


+ SIM (11.466-11.571 min, 11 scans) (**) 2203

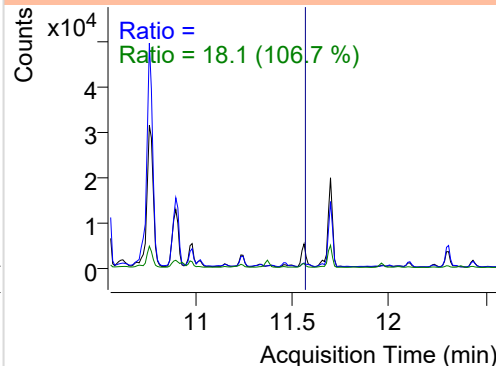


Phenanthrene

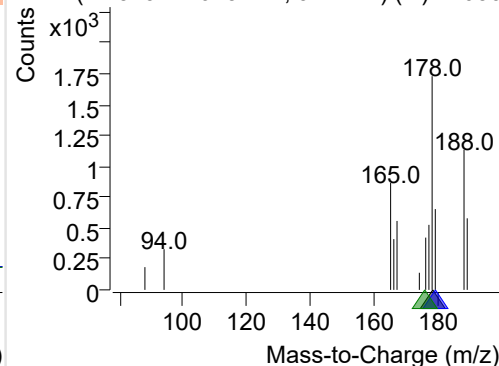
+ Selected Ion (178.0) 220302-PAHs-041.D



178.0, 179.0, 176.0

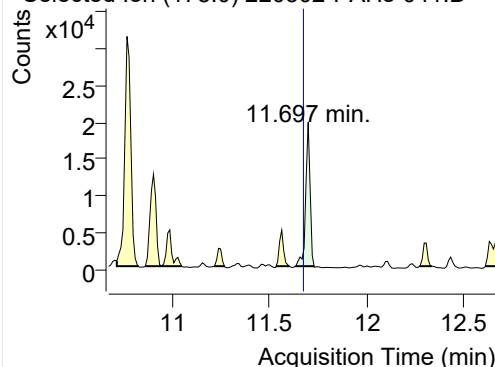


+ SIM (11.529-11.613 min, 9 scans) (**) 22030

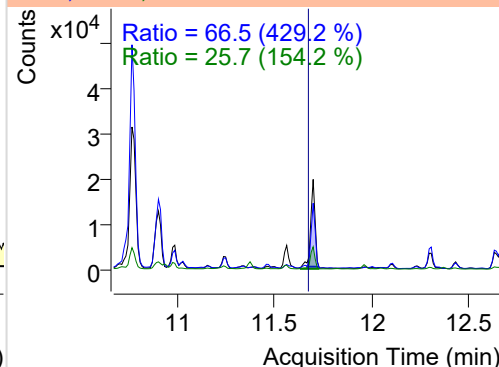


Anthracene

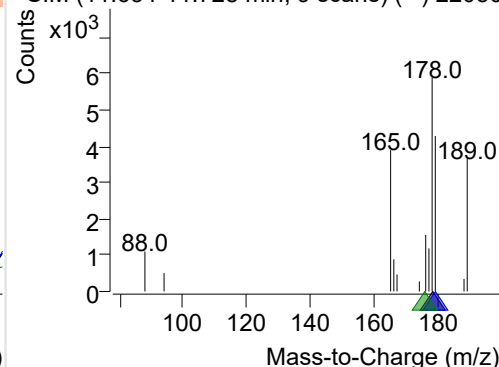
+ Selected Ion (178.0) 220302-PAHs-041.D



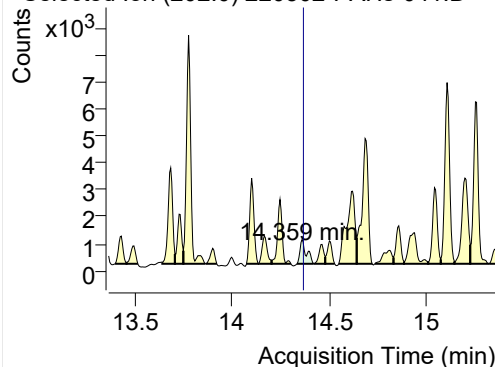
178.0, 179.0, 176.0



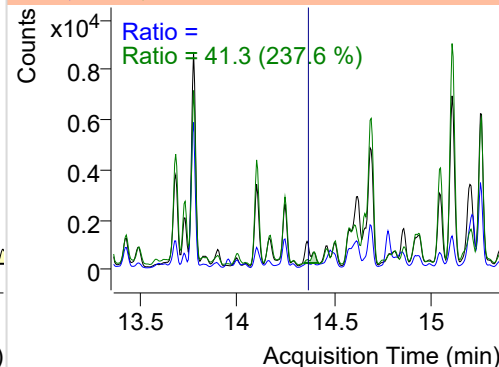
+ SIM (11.634-11.728 min, 9 scans) (**) 22030

**Fluoranthene**

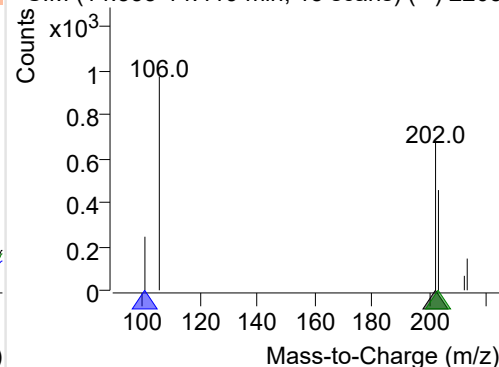
+ Selected Ion (202.0) 220302-PAHs-041.D



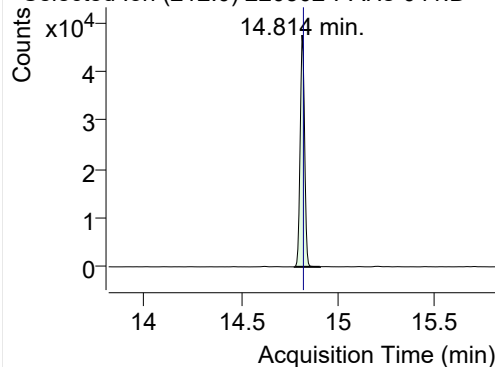
202.0, 101.0, 203.0



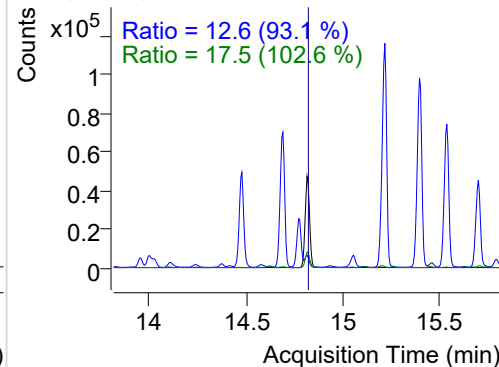
+ SIM (14.333-14.419 min, 15 scans) (**) 2203

**LSS-D10-Pyrene**

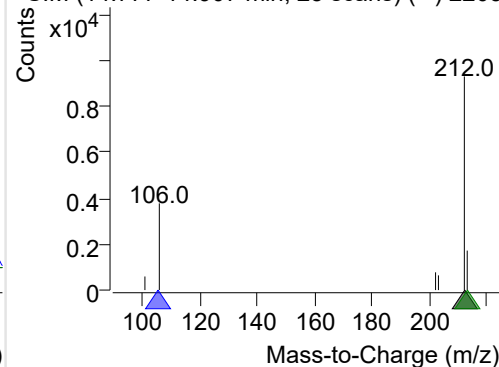
+ Selected Ion (212.0) 220302-PAHs-041.D



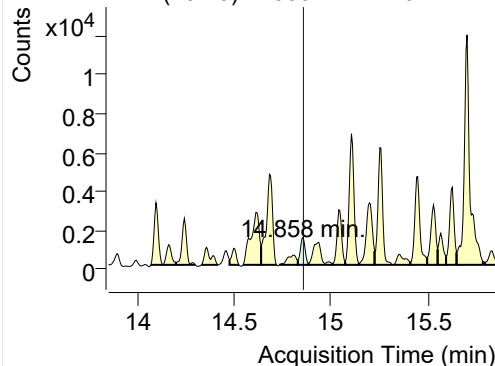
212.0, 106.0, 213.0



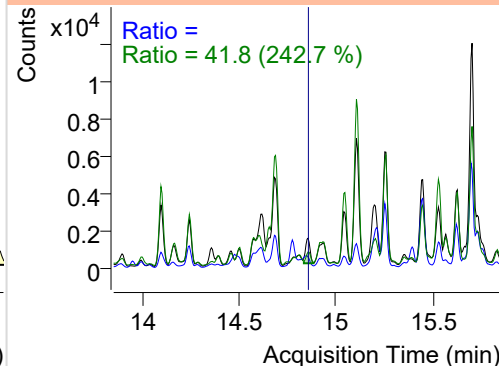
+ SIM (14.777-14.907 min, 25 scans) (**) 2203

**Pyrene**

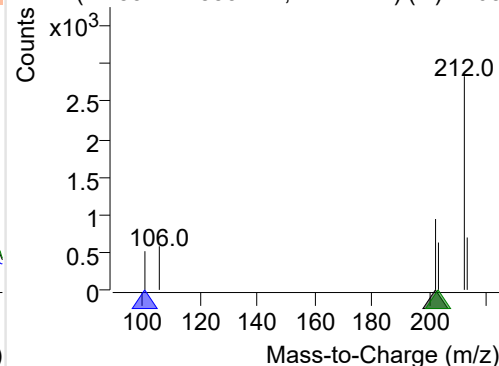
+ Selected Ion (202.0) 220302-PAHs-041.D



202.0, 101.0, 203.0



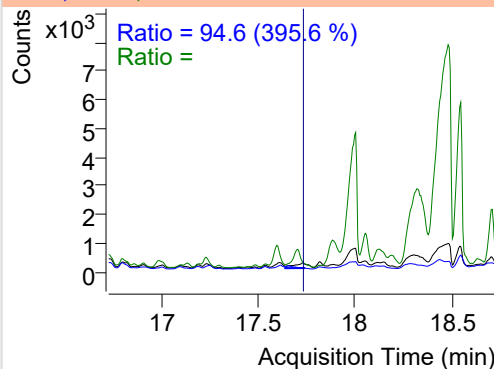
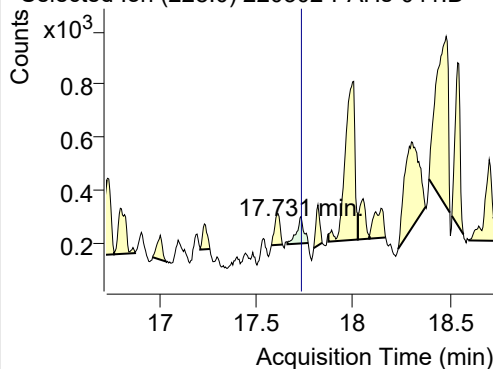
+ SIM (14.831-14.885 min, 11 scans) (**) 2203



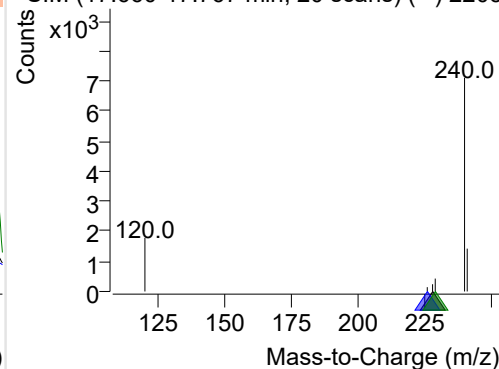
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-041.D

228.0, 226.0, 229.0

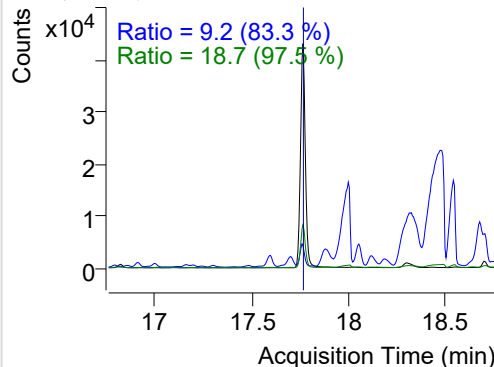
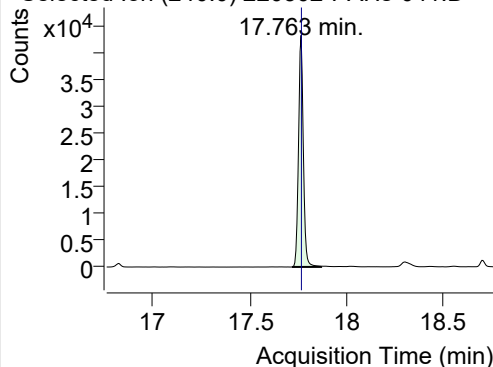


+ SIM (17.660-17.767 min, 20 scans) (**) 2203

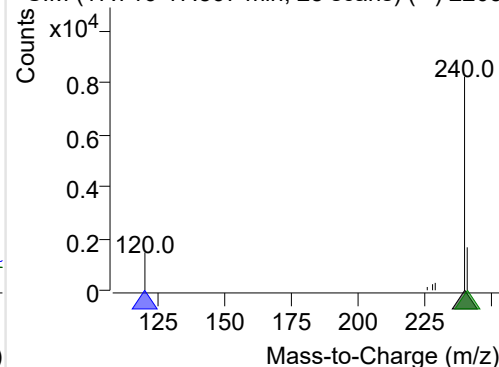
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-041.D

240.0, 120.0, 241.0

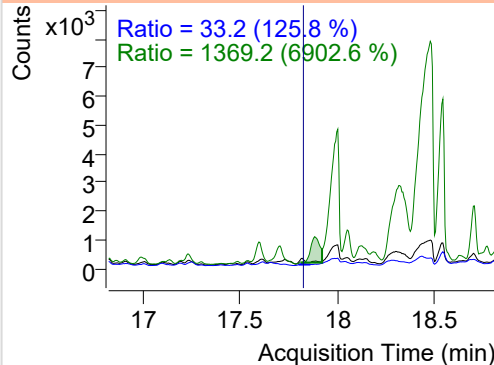
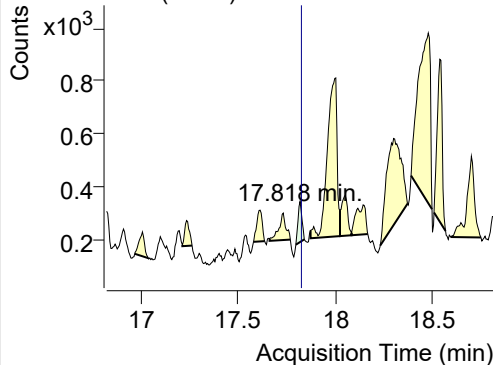


+ SIM (17.716-17.867 min, 28 scans) (**) 2203

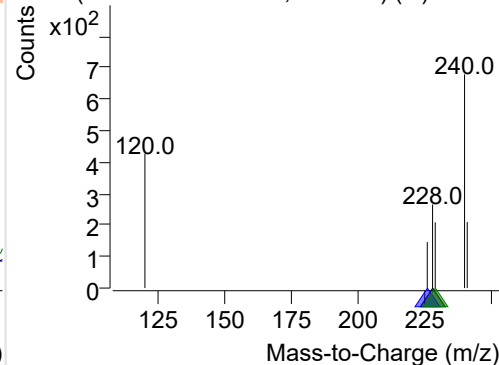
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-041.D

228.0, 226.0, 229.0

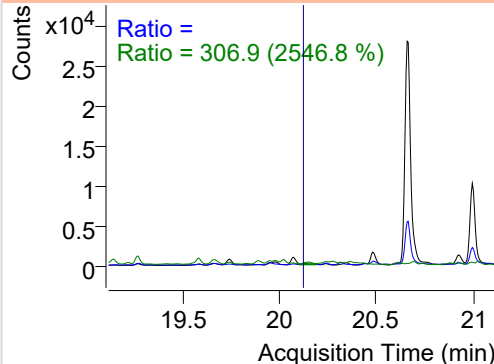
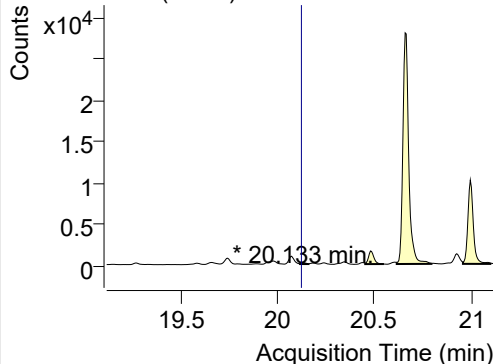


+ SIM (17.796-17.839 min, 9 scans) (**) 22030

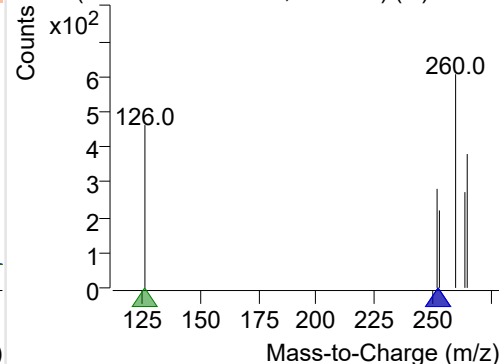
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-041.D

252.0, 253.0, 126.0



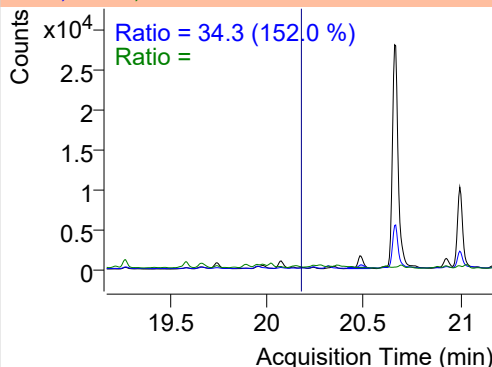
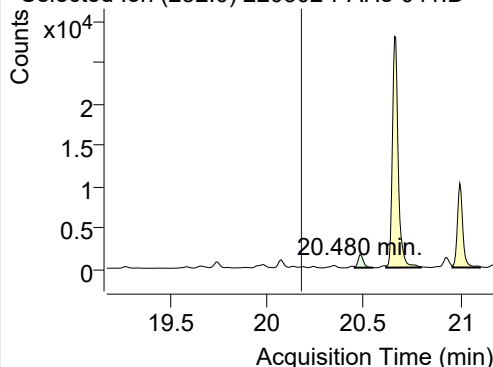
+ SIM (20.117-20.160 min, 9 scans) (**) 22030



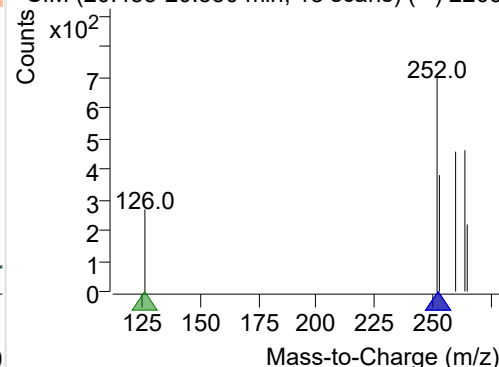
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-041.D

252.0, 253.0, 126.0

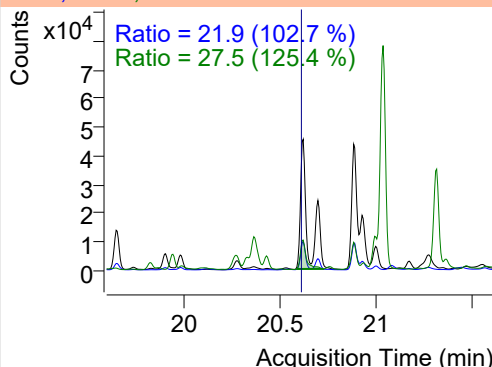
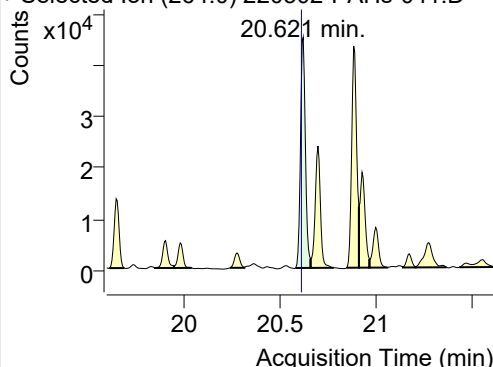


+ SIM (20.453-20.550 min, 18 scans) (**) 2203

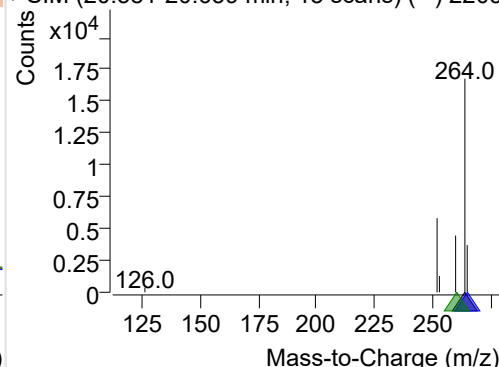
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-041.D

264.0, 265.0, 260.0

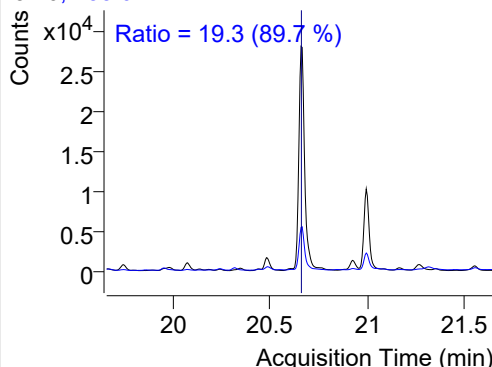
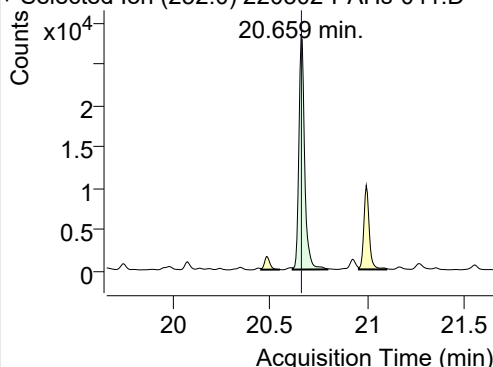


+ SIM (20.581-20.659 min, 15 scans) (**) 2203

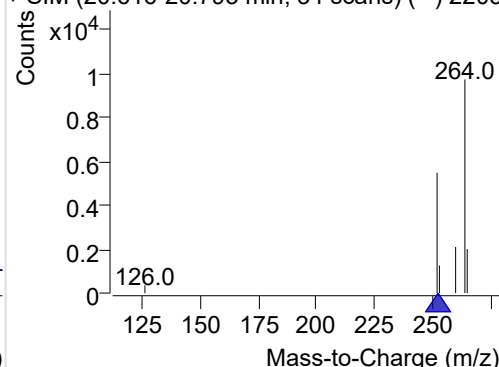
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-041.D

252.0, 253.0

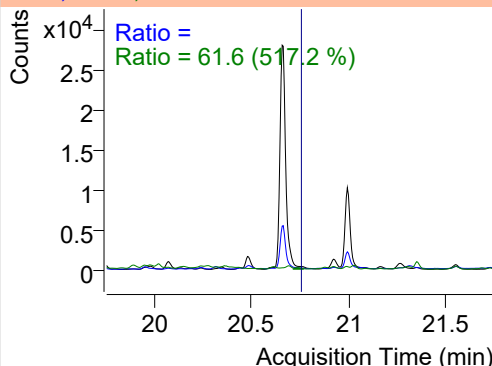
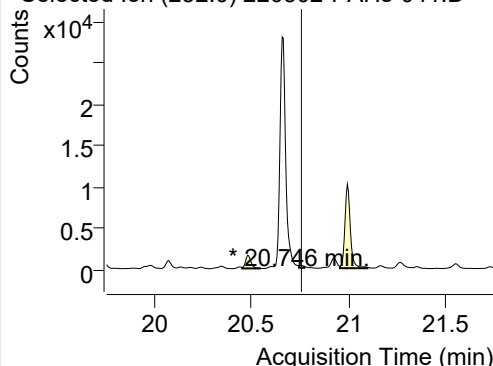


+ SIM (20.616-20.795 min, 34 scans) (**) 2203

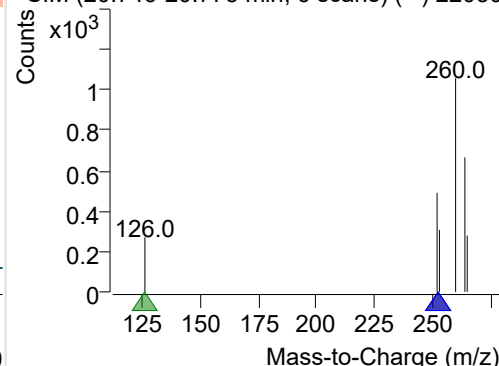
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-041.D

252.0, 253.0, 126.0

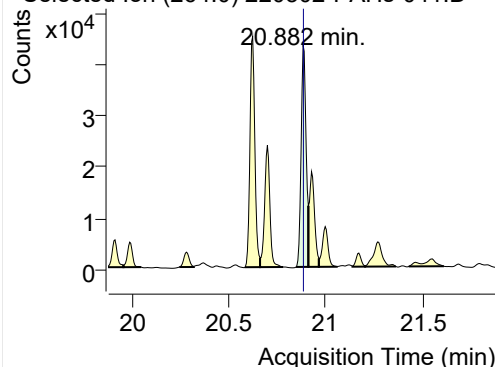


+ SIM (20.746-20.773 min, 6 scans) (**) 22030

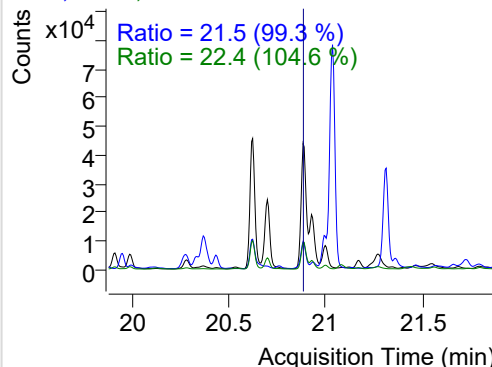


IS-D12-Perylene

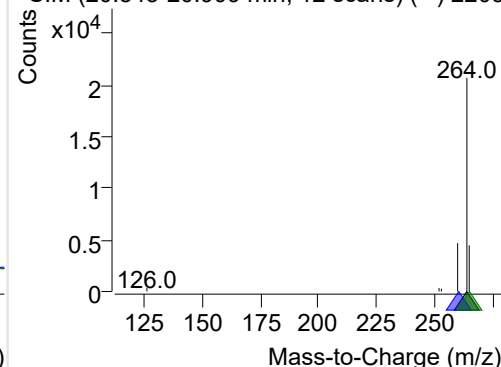
+ Selected Ion (264.0) 220302-PAHs-041.D



264.0, 260.0, 265.0

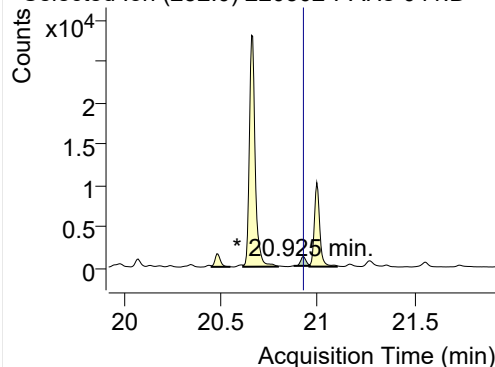


+ SIM (20.845-20.909 min, 12 scans) (**) 2203

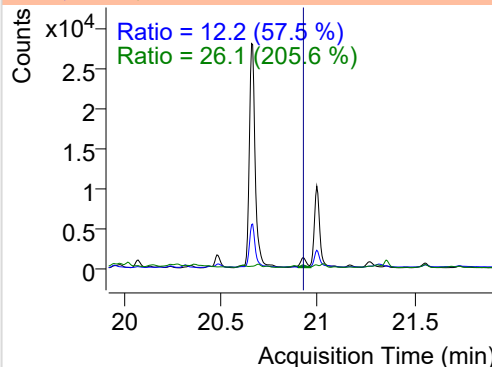


Perylene

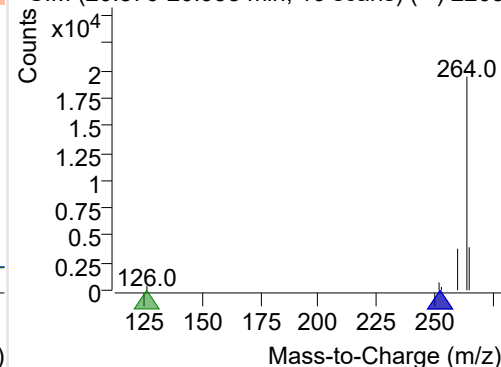
+ Selected Ion (252.0) 220302-PAHs-041.D



252.0, 253.0, 126.0

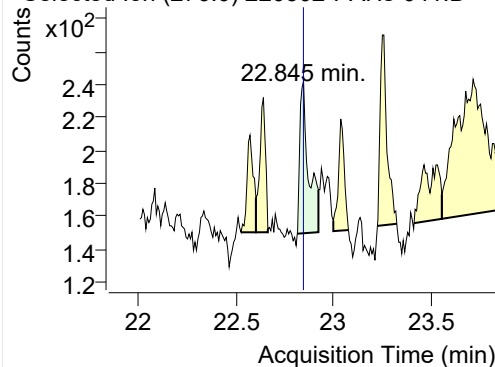


+ SIM (20.876-20.958 min, 16 scans) (**) 2203

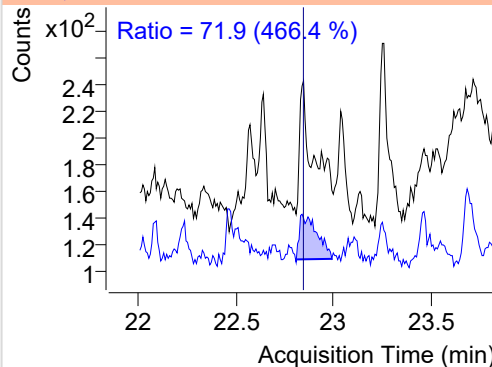


Indeno(1,2,3-c,d)pyrene

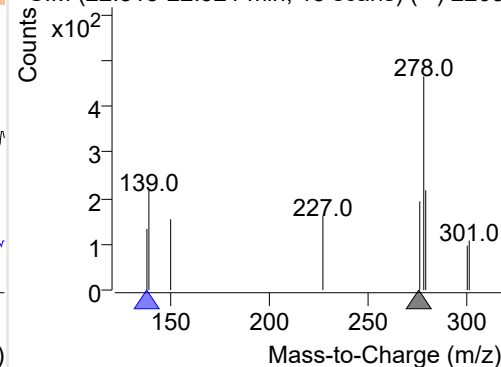
+ Selected Ion (276.0) 220302-PAHs-041.D



276.0, 138.0

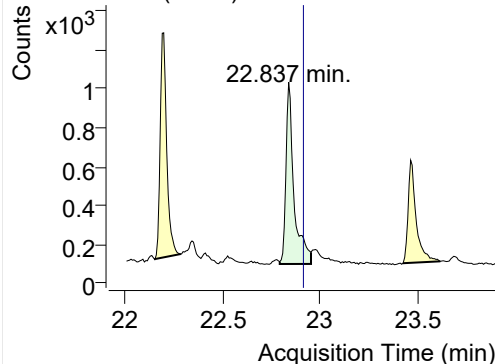


+ SIM (22.813-22.921 min, 15 scans) (**) 2203

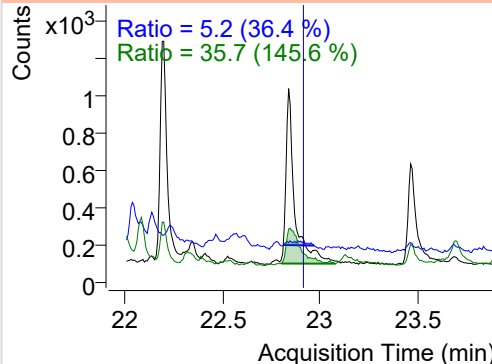


Dibenz(a,h)anthracene

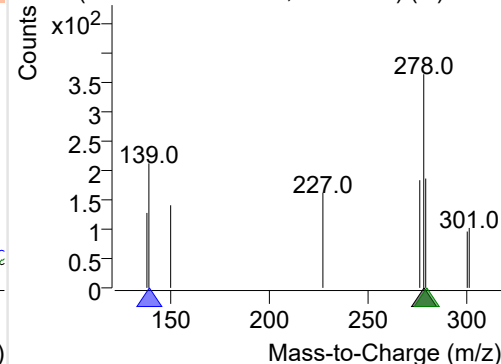
+ Selected Ion (278.0) 220302-PAHs-041.D



278.0, 139.0, 279.0

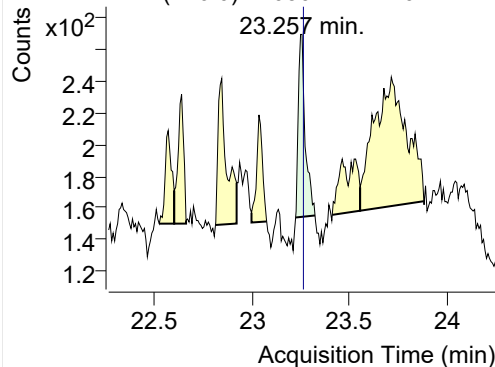


+ SIM (22.791-22.952 min, 22 scans) (**) 2203

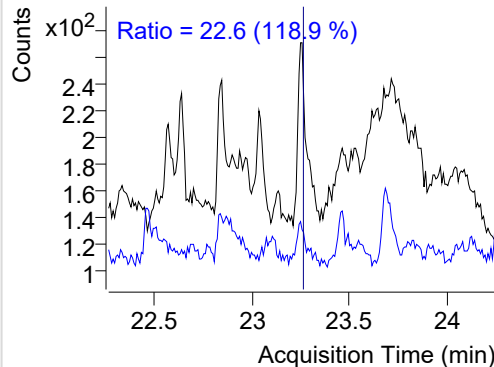


Benzo(g,h,i)perylene

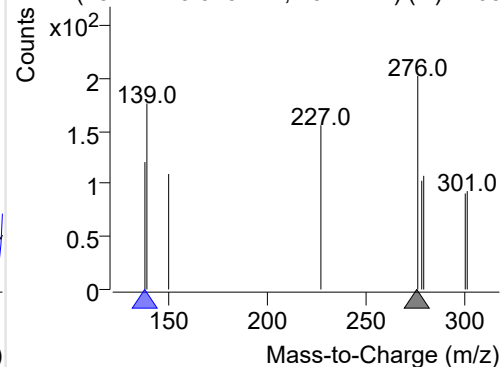
+ Selected Ion (276.0) 220302-PAHs-041.D



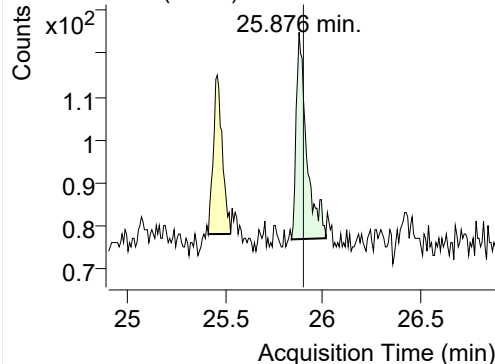
276.0, 138.0



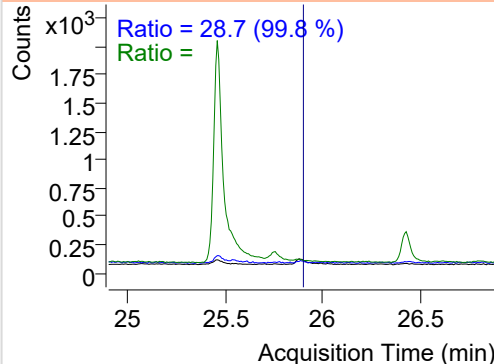
+ SIM (23.224-23.323 min, 13 scans) (**) 2203

**Coronene**

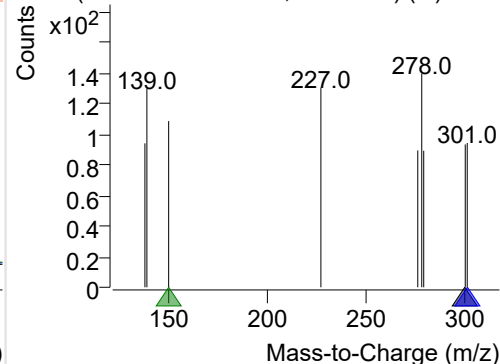
+ Selected Ion (300.0) 220302-PAHs-041.D



300.0, 301.0, 150.0



+ SIM (25.838-26.013 min, 24 scans) (**) 2203



Quantitative Analysis Sample Based Report

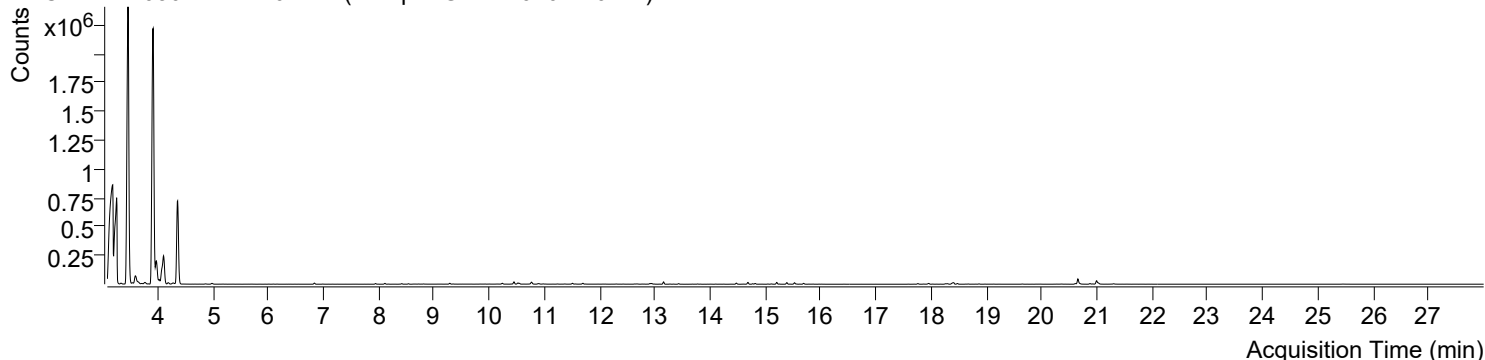


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 8:07:37	Data File	220302-PAHs-044.D
Type	Sample	Name	Sample-Gas-220204-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

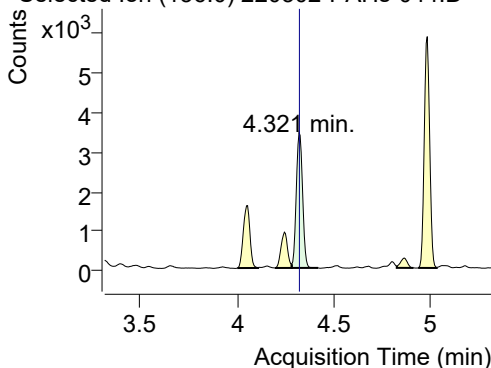
+ TIC SIM 220302-PAHs-044.D (Sample-Gas-220204-10DIL)



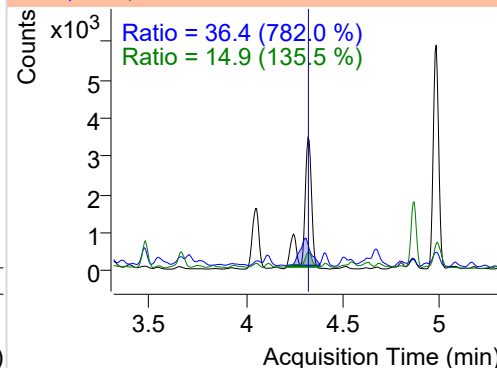
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.321	136.0	7729	3430.69	ND ng/ml	14.9
Naphthalene	4.359	128.0	1322402	584260.58	ND ng/ml	12.6
Acenaphthylene	7.739	152.0	213	146.60	ND ng/ml	41.4
IS-D10-Acenaphthene	8.112	164.0	5095	3491.45	ND ng/ml	91.8
Acenaphthene	8.177	154.0	370	262.07	ND ng/ml	133.4
LSS-D10-Fluorene	9.281	176.0	5376	3321.31	ND ng/ml	86.0
Fluorene	9.344	166.0	981	617.07	ND ng/ml	92.5
IS-D10-Phenanthrene	11.508	188.0	8766	5948.37	ND ng/ml	15.7
Phenanthrene	11.560	178.0	1624	961.88	ND ng/ml	16.9
Anthracene	11.697	178.0	3610	2094.88	ND ng/ml	24.0
Fluoranthene	14.359	202.0	208	124.09	ND ng/ml	
LSS-D10-Pyrene	14.814	212.0	7747	4737.54	ND ng/ml	16.7
Pyrene	14.852	202.0	410	141.09	ND ng/ml	
Benz(a)anthracene	17.861	228.0	83	23.55	ND ng/ml	40.8
IS-D12-Chrysene	17.758	240.0	7159	4096.25	ND ng/ml	18.7
Chrysene	17.861	228.0	83	23.55	ND ng/ml	40.8
Benzo(b)fluoranthene	20.654	252.0	71668	38136.58	ND ng/ml	19.1
Benzo(k)fluoranthene	20.654	252.0	71668	38136.58	ND ng/ml	19.1
SS-D12-Benzo(e)pyrene	20.605	264.0	7086	3724.84	ND ng/ml	29.2
Benzo(e)pyrene	20.654	252.0	71668	38136.58	ND ng/ml	19.1
Benzo(a)pyrene	20.654	252.0	71668	38136.58	ND ng/ml	19.1
IS-D12-Perylene	20.871	264.0	6417	3359.92	ND ng/ml	21.0
Perylene	20.990	252.0	46373	23008.46	ND ng/ml	18.7
Indeno(1,2,3-c,d)pyrene	22.829	276.0	17	7.46	ND ng/ml	102.8
Dibenz(a,h)anthracene	22.837	278.0	236	64.86	ND ng/ml	39.3
Benzo(g,h,i)perylene	23.249	276.0	16	6.91	ND ng/ml	
Coronene	25.883	300.0	139	10.38	ND ng/ml	

IS-D8-Naphthalene

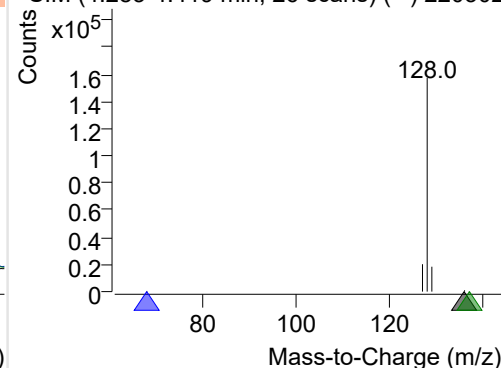
+ Selected Ion (136.0) 220302-PAHs-044.D



136.0, 68.0, 137.0

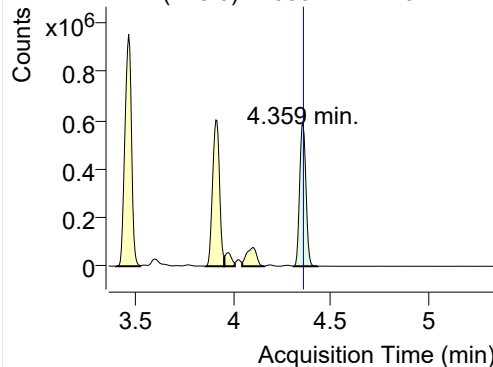


+ SIM (4.283-4.419 min, 26 scans) (**) 220302

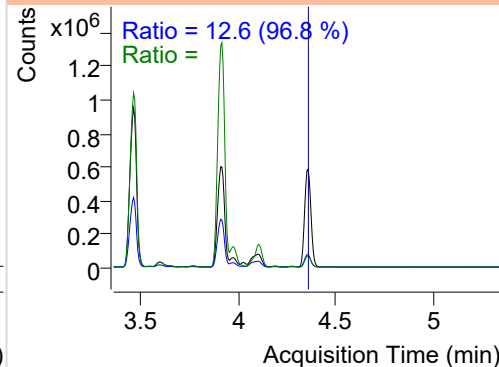


Naphthalene

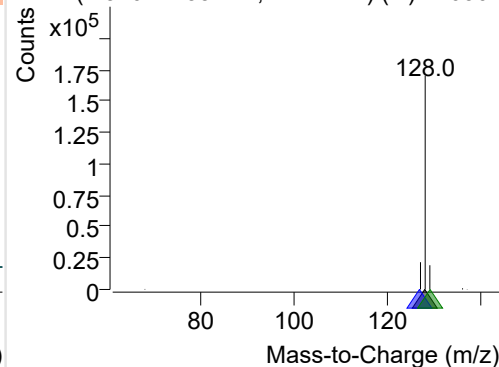
+ Selected Ion (128.0) 220302-PAHs-044.D



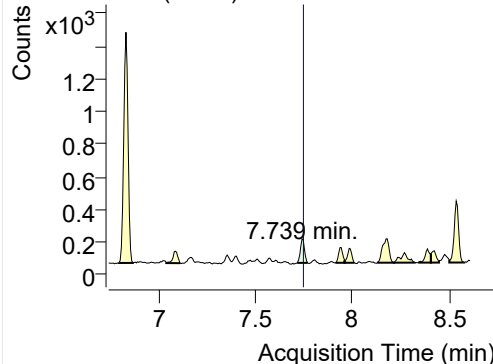
128.0, 127.0, 129.0



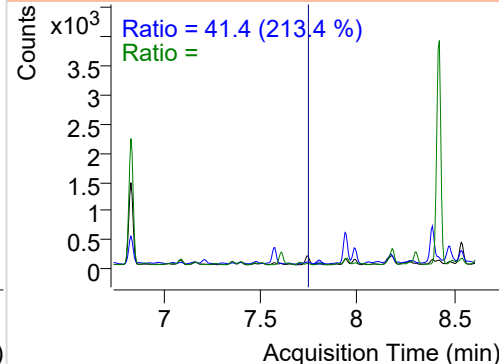
+ SIM (4.310-4.435 min, 24 scans) (**) 220302

**Acenaphthylene**

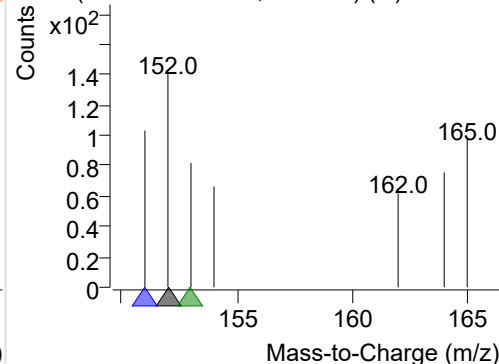
+ Selected Ion (152.0) 220302-PAHs-044.D



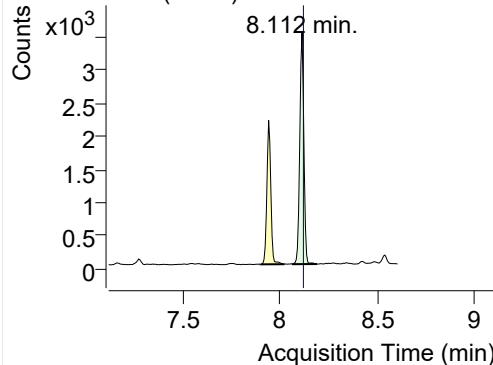
152.0, 151.0, 153.0



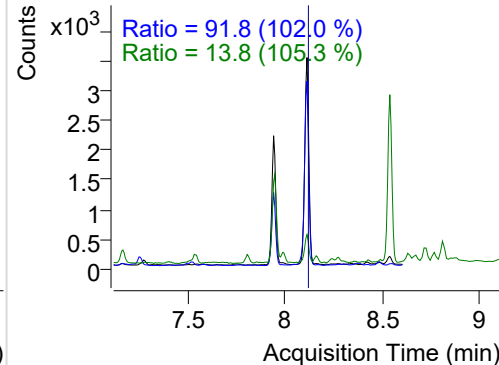
+ SIM (7.714-7.768 min, 9 scans) (**) 220302-I

**IS-D10-Acenaphthene**

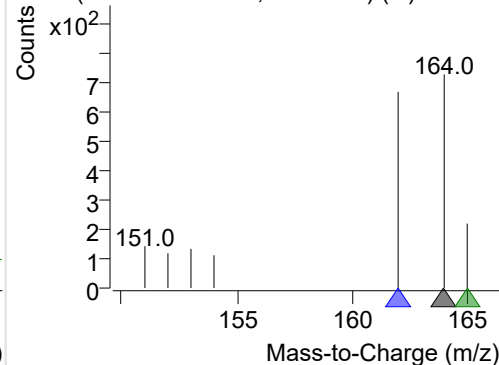
+ Selected Ion (164.0) 220302-PAHs-044.D



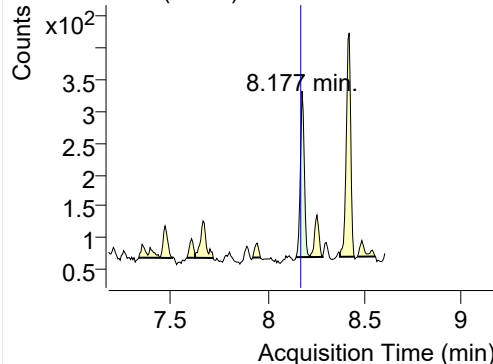
164.0, 162.0, 165.0



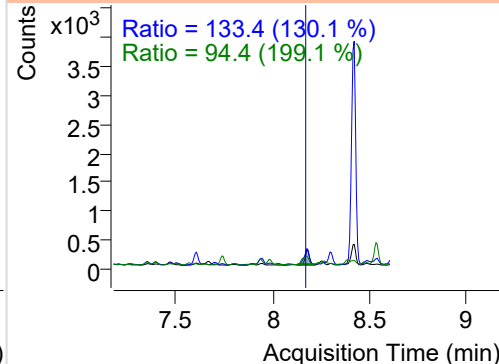
+ SIM (8.065-8.189 min, 22 scans) (**) 220302

**Acenaphthene**

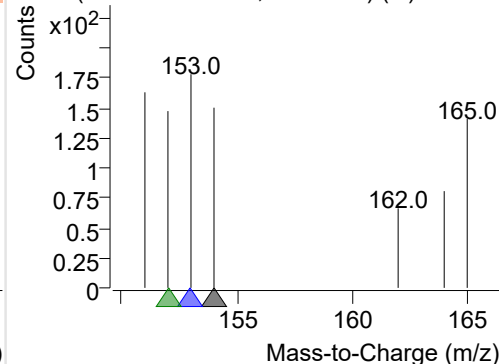
+ Selected Ion (154.0) 220302-PAHs-044.D



154.0, 153.0, 152.0

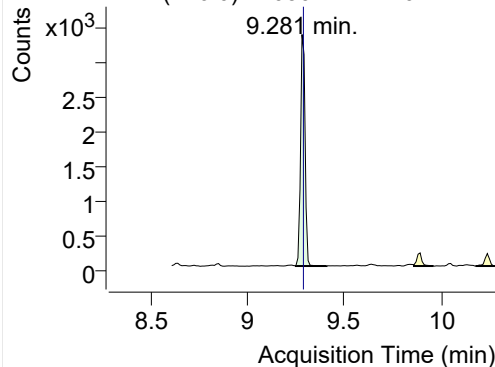


+ SIM (8.146-8.219 min, 13 scans) (**) 220302

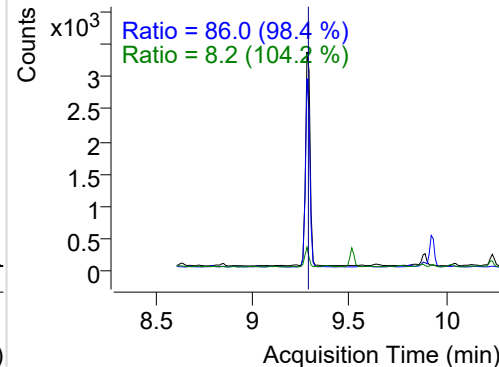


LSS-D10-Fluorene

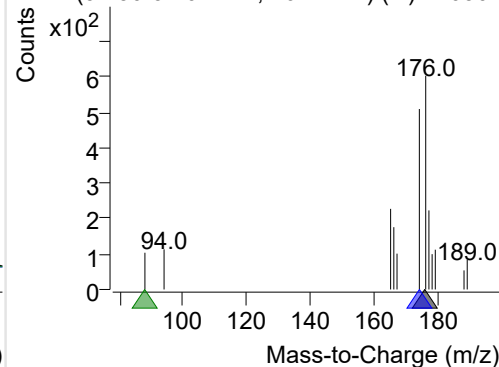
+ Selected Ion (176.0) 220302-PAHs-044.D



176.0, 174.0, 88.0

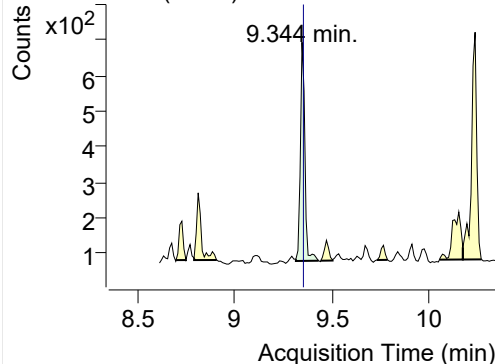


+ SIM (9.250-9.407 min, 16 scans) (**) 220302

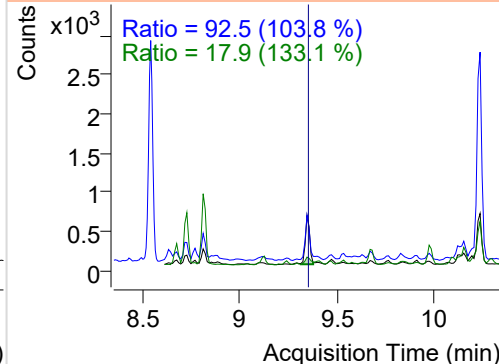


Fluorene

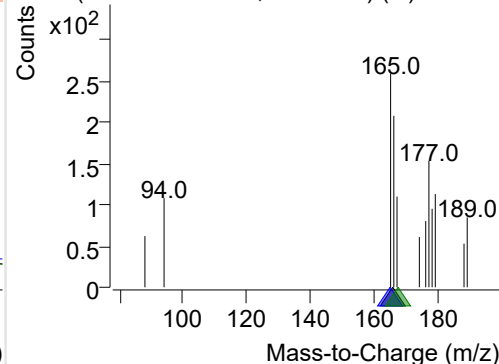
+ Selected Ion (166.0) 220302-PAHs-044.D



166.0, 165.0, 167.0

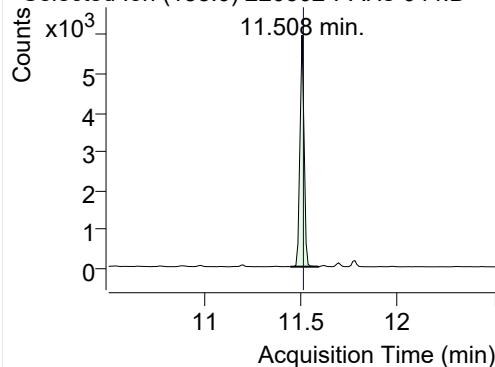


+ SIM (9.313-9.430 min, 12 scans) (**) 220302

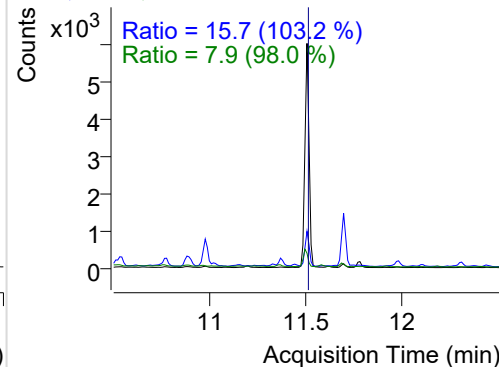


IS-D10-Phenanthrene

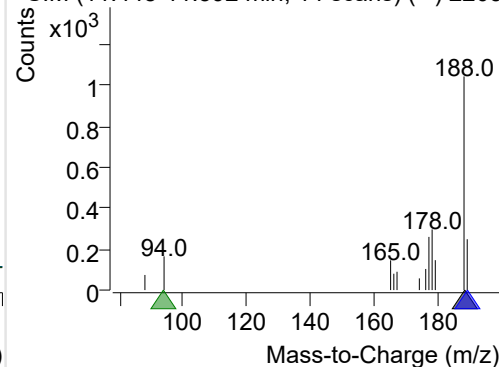
+ Selected Ion (188.0) 220302-PAHs-044.D



188.0, 189.0, 94.0

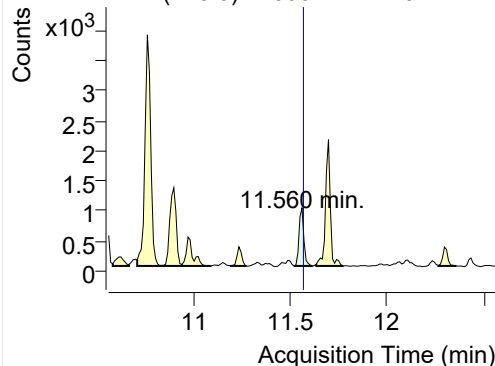


+ SIM (11.448-11.592 min, 14 scans) (**) 2203

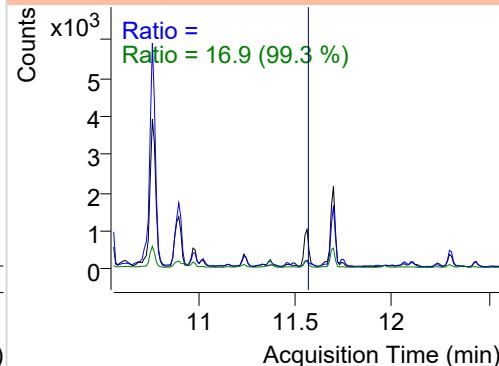


Phenanthrene

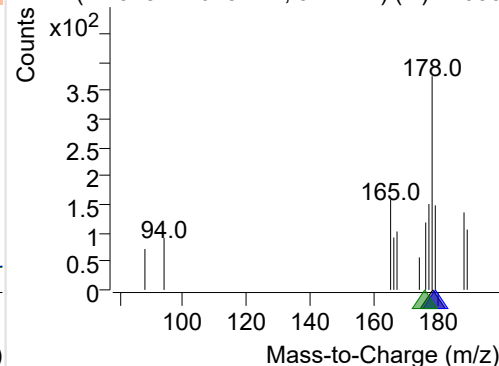
+ Selected Ion (178.0) 220302-PAHs-044.D



178.0, 179.0, 176.0

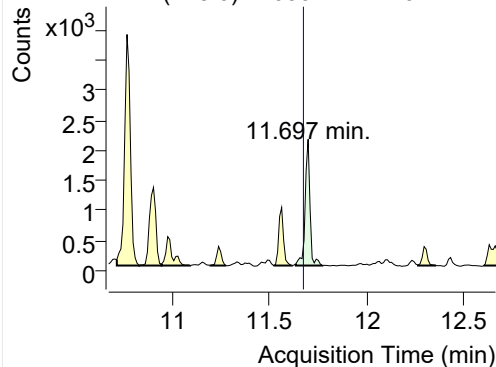


+ SIM (11.518-11.613 min, 9 scans) (**) 22030

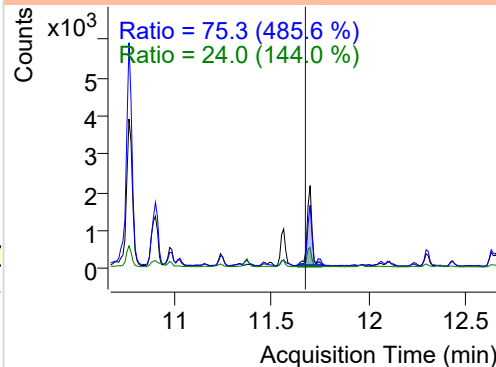


Anthracene

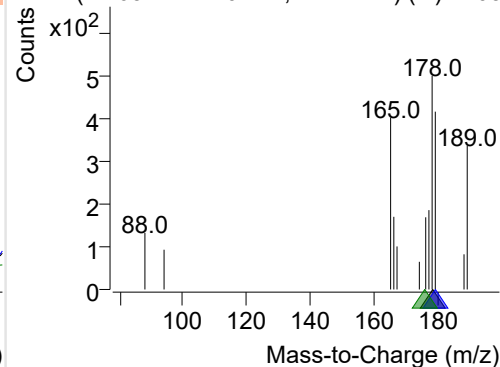
+ Selected Ion (178.0) 220302-PAHs-044.D



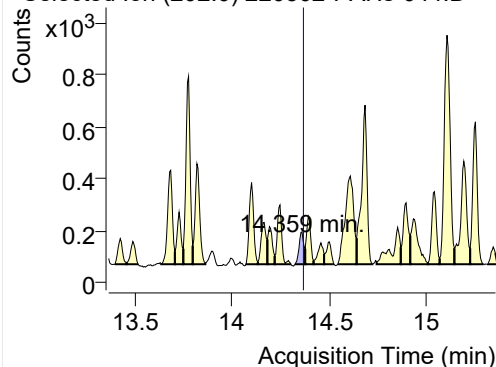
178.0, 179.0, 176.0



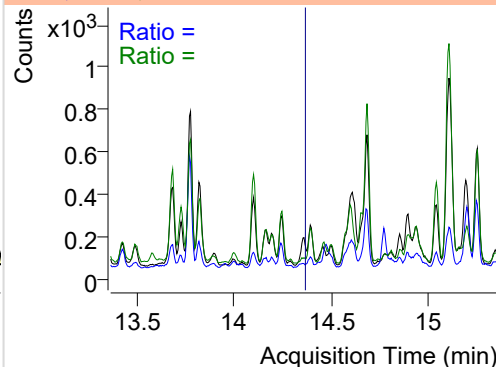
+ SIM (11.634-11.770 min, 14 scans) (**) 2203

**Fluoranthene**

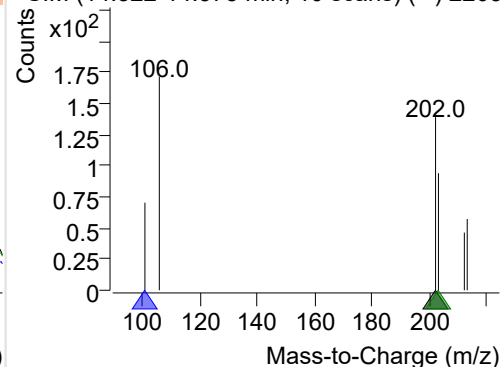
+ Selected Ion (202.0) 220302-PAHs-044.D



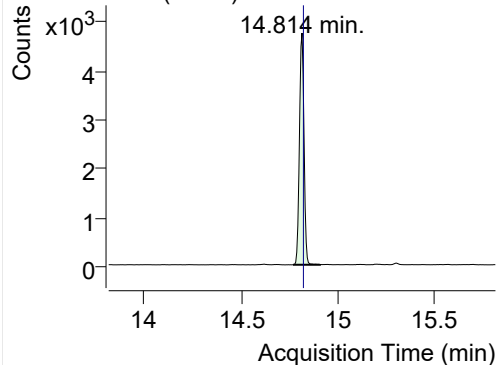
202.0, 101.0, 203.0



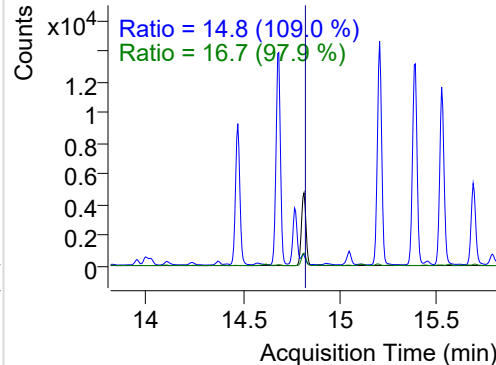
+ SIM (14.322-14.375 min, 10 scans) (**) 2203

**LSS-D10-Pyrene**

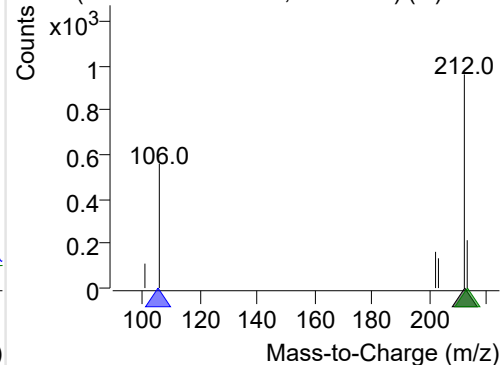
+ Selected Ion (212.0) 220302-PAHs-044.D



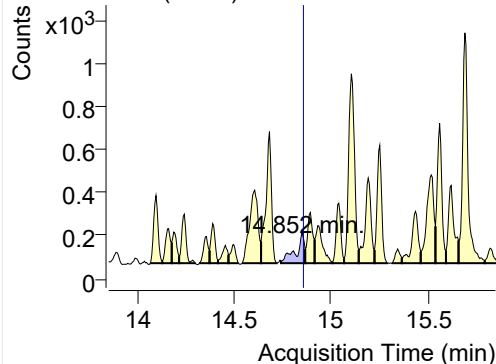
212.0, 106.0, 213.0



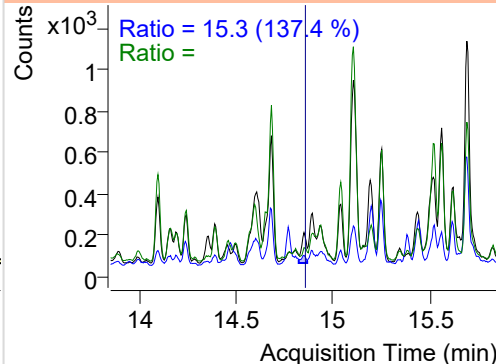
+ SIM (14.768-14.906 min, 26 scans) (**) 2203

**Pyrene**

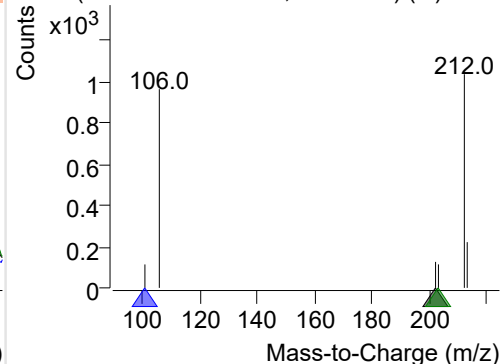
+ Selected Ion (202.0) 220302-PAHs-044.D



202.0, 101.0, 203.0



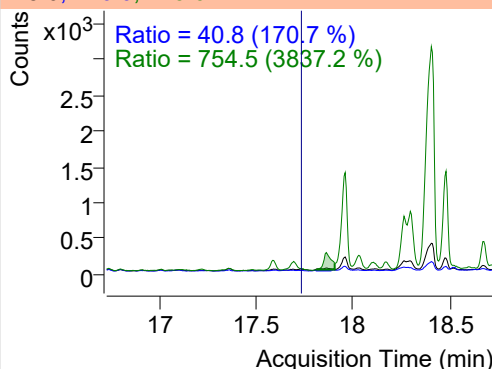
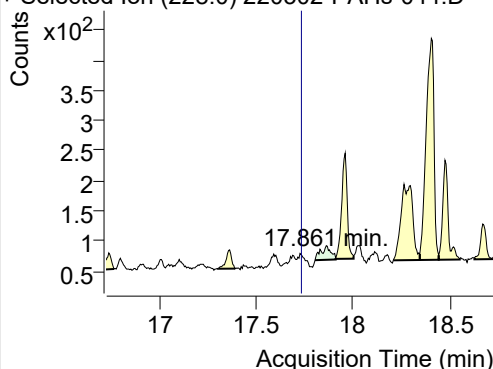
+ SIM (14.744-14.868 min, 24 scans) (**) 2203



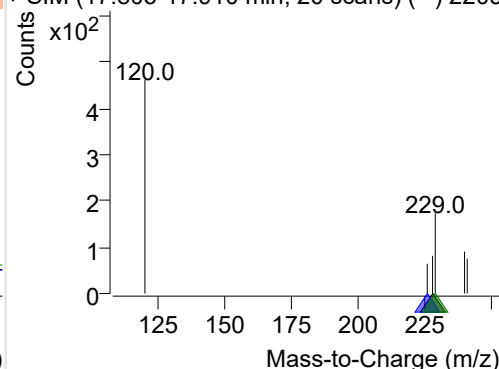
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-044.D

228.0, 226.0, 229.0

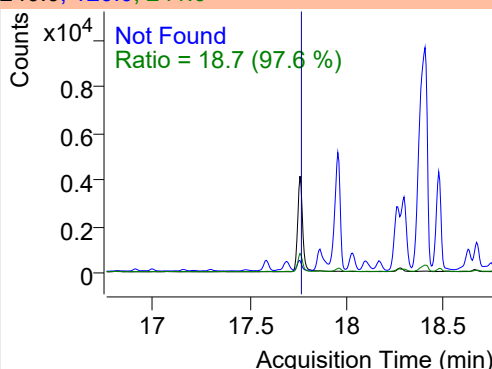
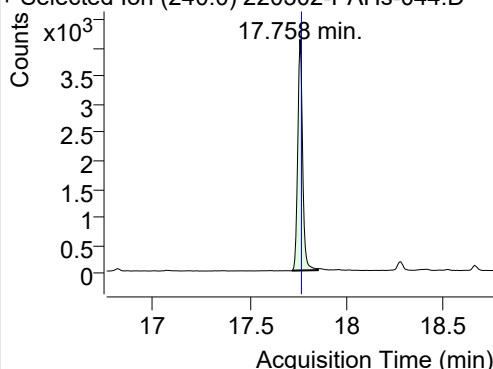


+ SIM (17.803-17.910 min, 20 scans) (**) 2203

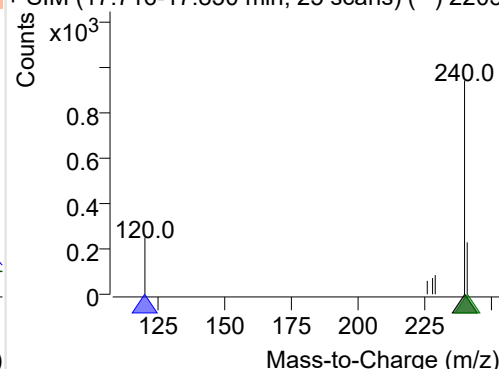
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-044.D

240.0, 120.0, 241.0

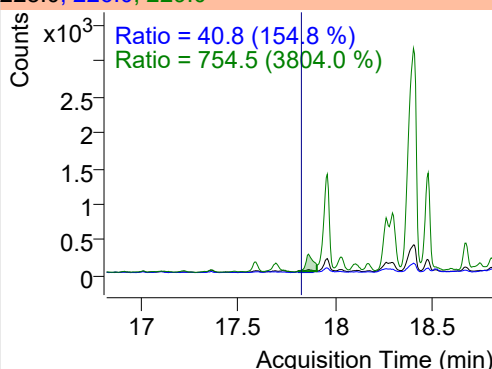
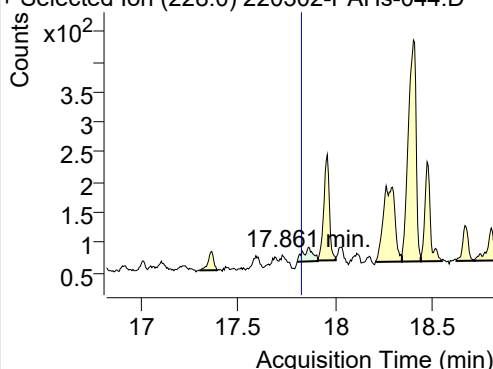


+ SIM (17.716-17.850 min, 25 scans) (**) 2203

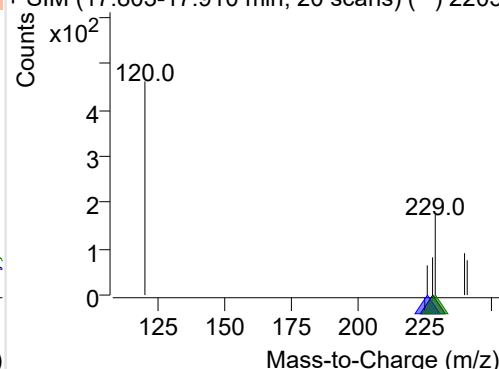
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-044.D

228.0, 226.0, 229.0

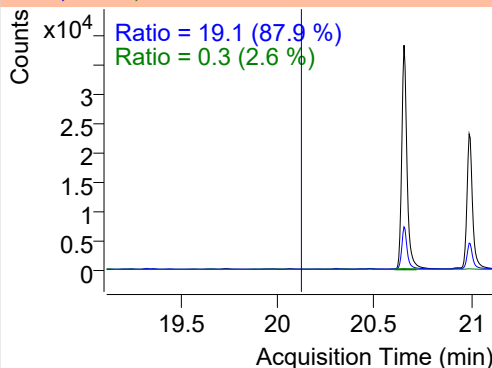
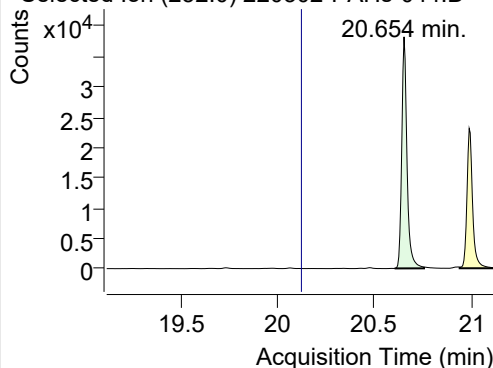


+ SIM (17.803-17.910 min, 20 scans) (**) 2203

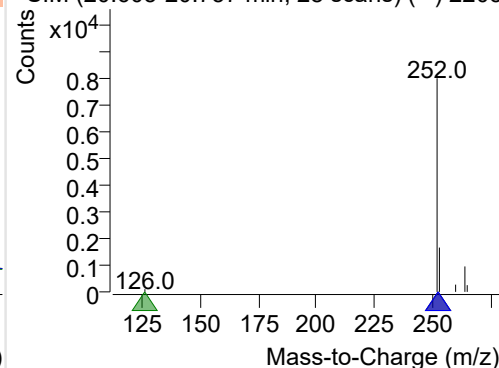
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-044.D

252.0, 253.0, 126.0

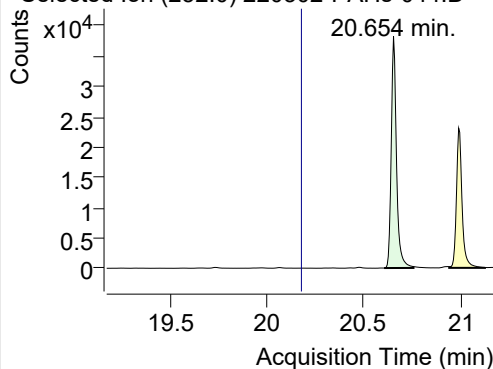


+ SIM (20.605-20.757 min, 28 scans) (**) 2203

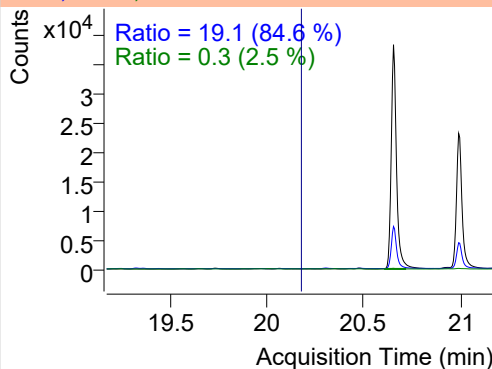


Benzo(k)fluoranthene

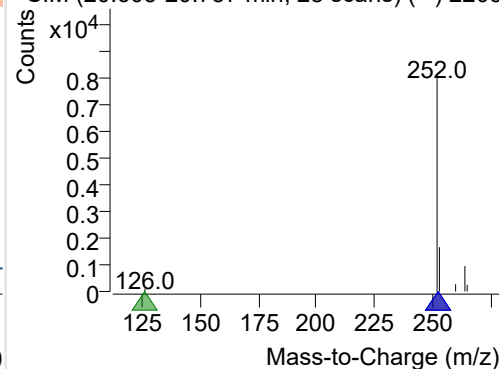
+ Selected Ion (252.0) 220302-PAHs-044.D



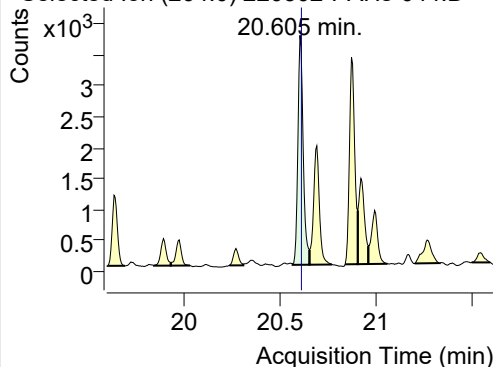
252.0, 253.0, 126.0



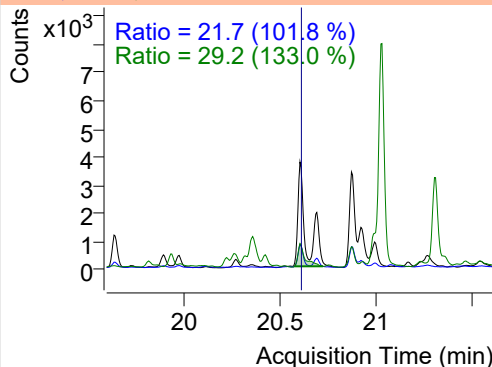
+ SIM (20.605-20.757 min, 28 scans) (**) 2203

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

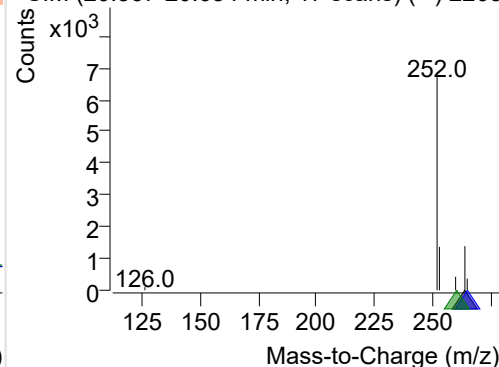
+ Selected Ion (264.0) 220302-PAHs-044.D



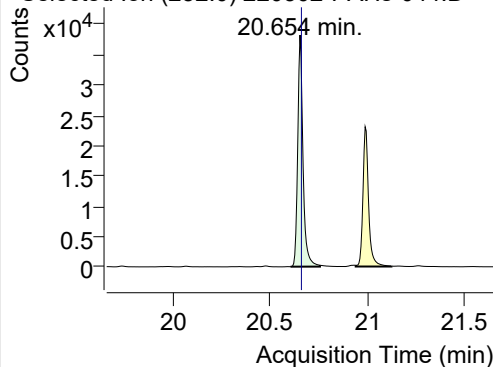
264.0, 265.0, 260.0



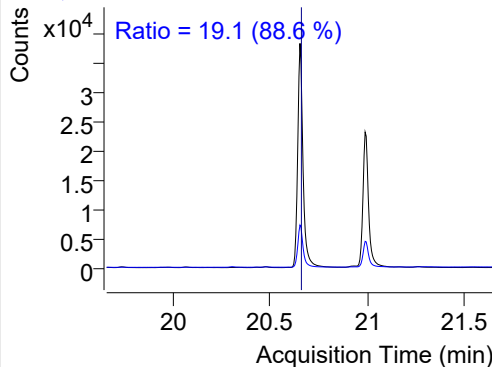
+ SIM (20.567-20.654 min, 17 scans) (**) 2203

**Benzo(e)pyrene**

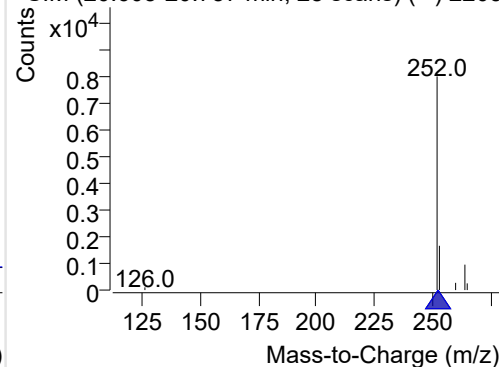
+ Selected Ion (252.0) 220302-PAHs-044.D



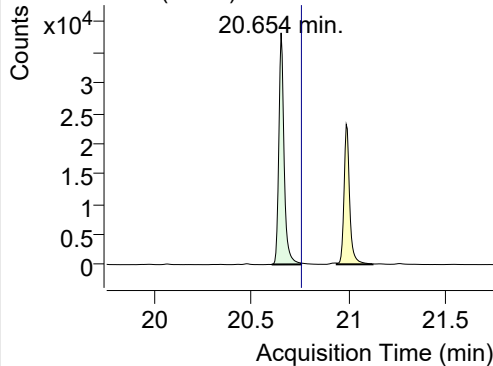
252.0, 253.0



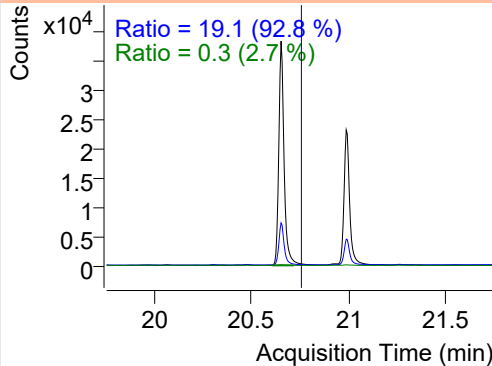
+ SIM (20.605-20.757 min, 28 scans) (**) 2203

**Benzo(a)pyrene**

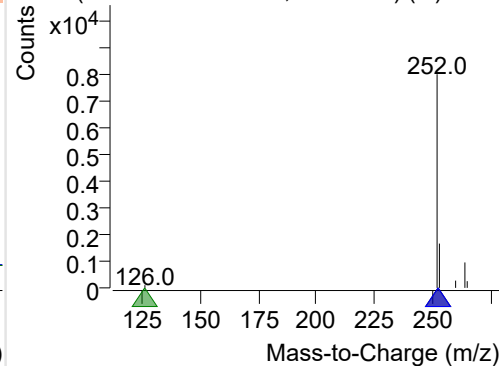
+ Selected Ion (252.0) 220302-PAHs-044.D



252.0, 253.0, 126.0

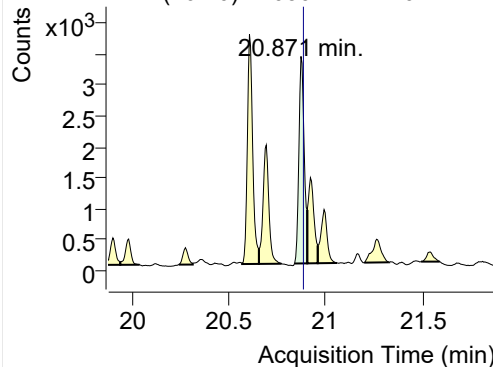


+ SIM (20.605-20.757 min, 28 scans) (**) 2203

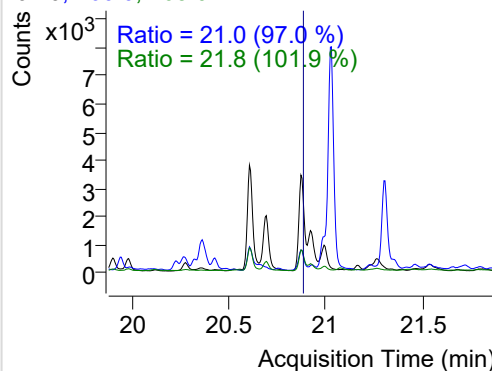


IS-D12-Perylene

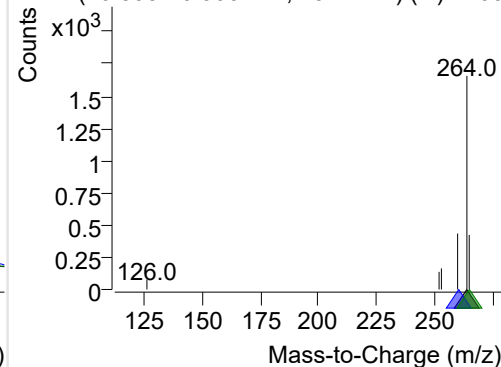
+ Selected Ion (264.0) 220302-PAHs-044.D



264.0, 260.0, 265.0

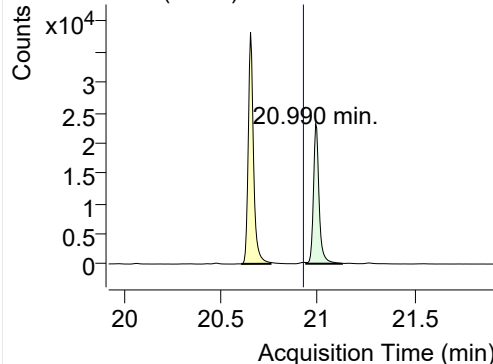


+ SIM (20.838-20.903 min, 13 scans) (**) 2203

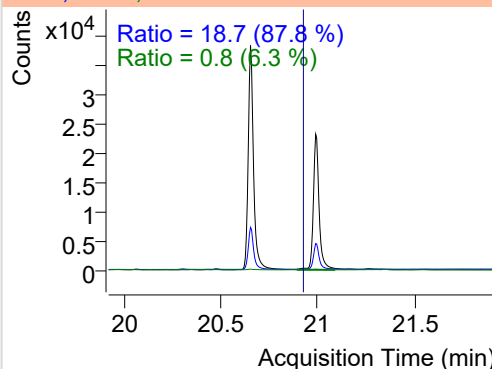


Perylene

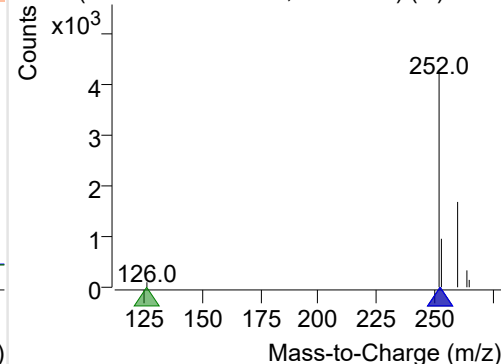
+ Selected Ion (252.0) 220302-PAHs-044.D



252.0, 253.0, 126.0

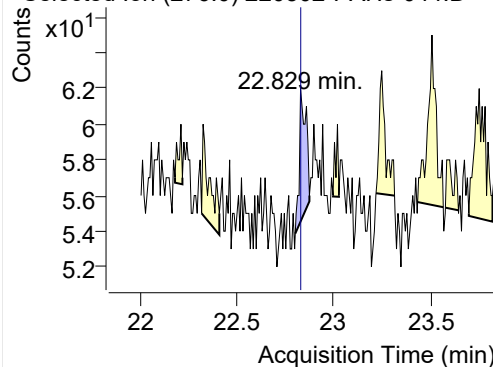


+ SIM (20.941-21.126 min, 35 scans) (**) 2203

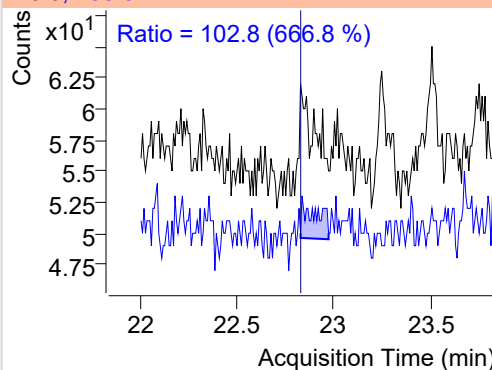


Indeno(1,2,3-c,d)pyrene

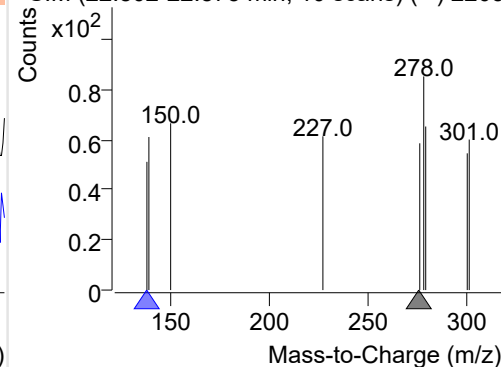
+ Selected Ion (276.0) 220302-PAHs-044.D



276.0, 138.0

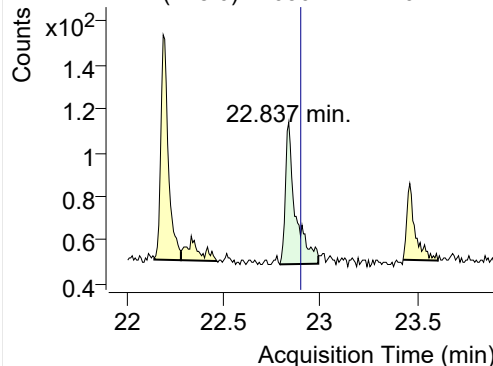


+ SIM (22.802-22.875 min, 10 scans) (**) 2203

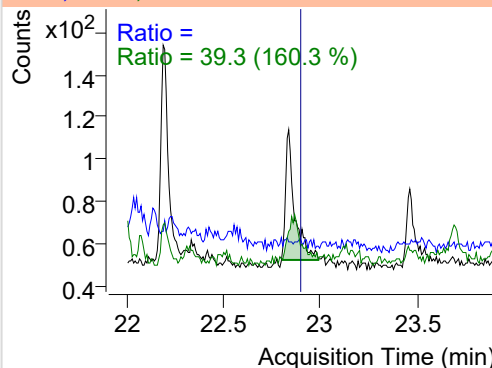


Dibenz(a,h)anthracene

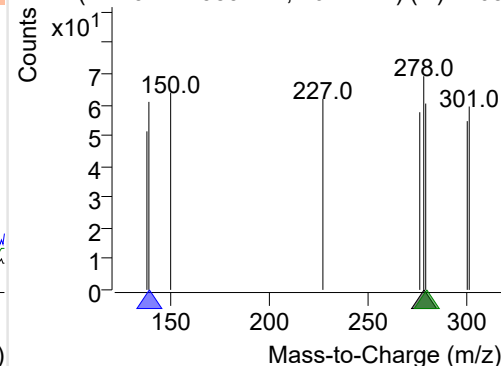
+ Selected Ion (278.0) 220302-PAHs-044.D



278.0, 139.0, 279.0



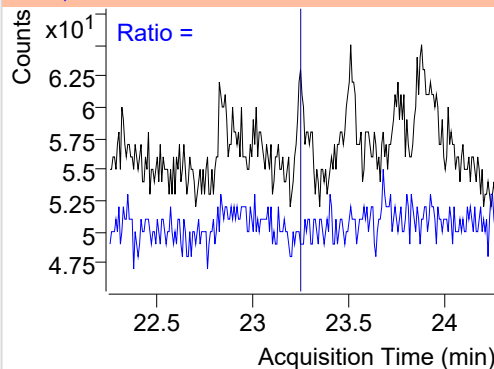
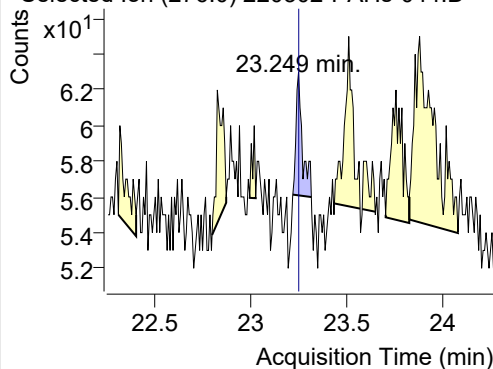
+ SIM (22.791-22.989 min, 26 scans) (**) 2203



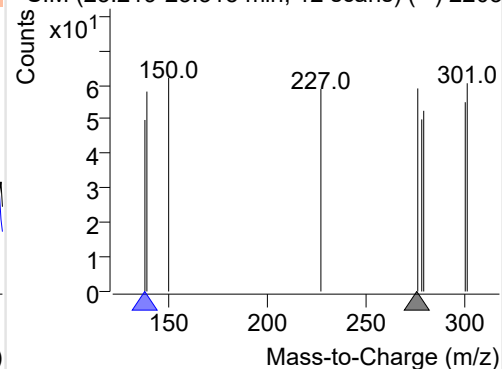
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-044.D

276.0, 138.0

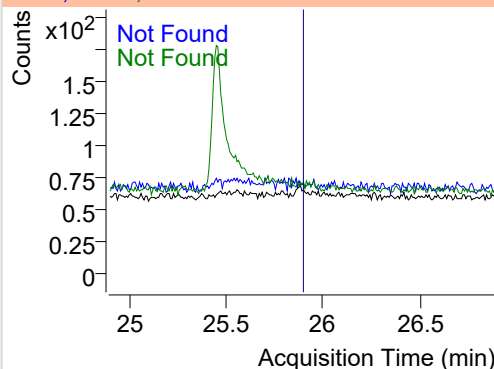
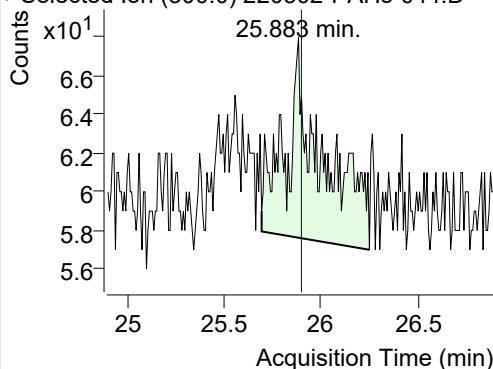


+ SIM (23.219-23.315 min, 12 scans) (**) 2203

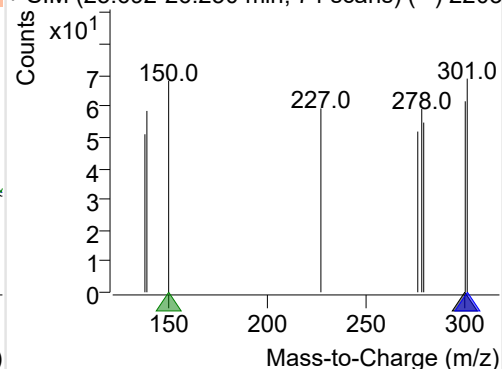
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-044.D

300.0, 301.0, 150.0



+ SIM (25.692-26.250 min, 74 scans) (**) 2203



Quantitative Analysis Sample Based Report

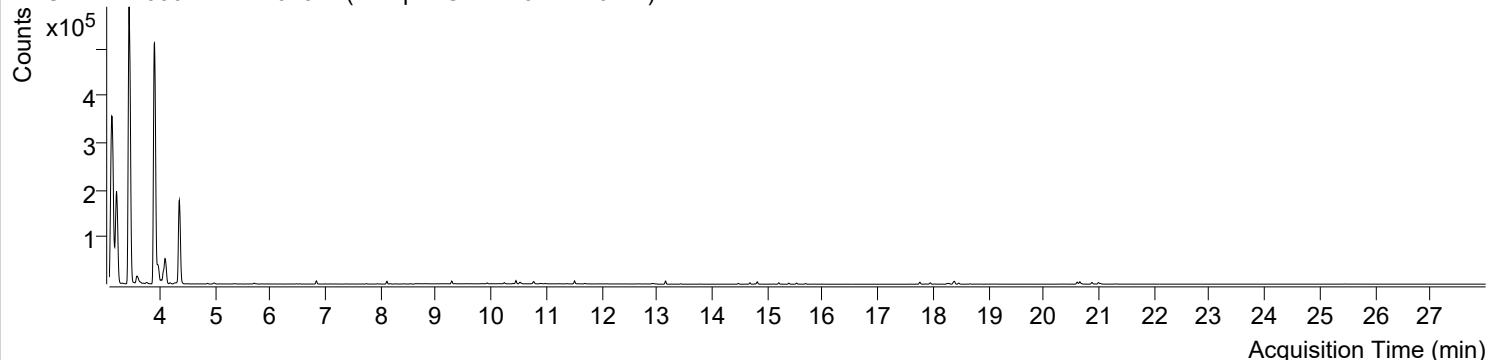


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 8:38:45	Data File	220302-PAHs-045.D
Type	Sample	Name	Sample-Gas-220211-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

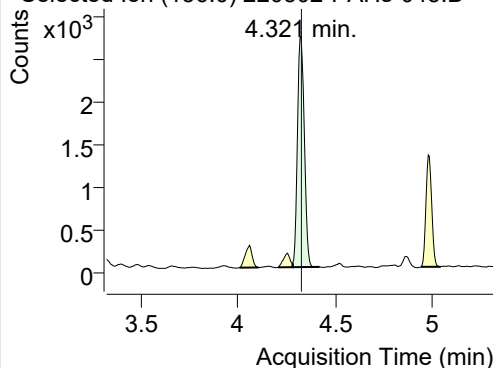
+ TIC SIM 220302-PAHs-045.D (Sample-Gas-220211-10DIL)



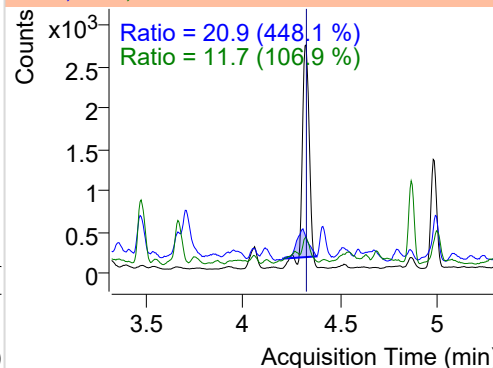
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.321	136.0	6668	2701.35	ND ng/ml	11.7
Naphthalene	4.354	128.0	353457	143092.64	ND ng/ml	13.1
Acenaphthylene	7.739	152.0	925	612.35	ND ng/ml	18.2
IS-D10-Acenaphthene	8.112	164.0	4406	2855.68	ND ng/ml	89.6
Acenaphthene	8.177	154.0	288	179.01	ND ng/ml	127.5
LSS-D10-Fluorene	9.282	176.0	4484	2771.85	ND ng/ml	87.4
Fluorene	9.345	166.0	277	180.38	ND ng/ml	83.9
IS-D10-Phenanthrene	11.508	188.0	7626	5155.44	ND ng/ml	16.0
Phenanthrene	11.560	178.0	287	177.03	ND ng/ml	20.7
Anthracene	11.697	178.0	538	301.26	ND ng/ml	20.1
Fluoranthene	14.354	202.0	85	57.92	ND ng/ml	
LSS-D10-Pyrene	14.814	212.0	6241	3807.74	ND ng/ml	16.9
Pyrene	14.852	202.0	148	96.25	ND ng/ml	20.5
Benz(a)anthracene	17.725	228.0	28	8.84	ND ng/ml	
IS-D12-Chrysene	17.758	240.0	5794	3226.09	ND ng/ml	18.9
Chrysene	17.812	228.0	23	13.05	ND ng/ml	
Benzo(b)fluoranthene	20.654	252.0	8147	4010.68	ND ng/ml	18.9
Benzo(k)fluoranthene	20.654	252.0	8147	4010.68	ND ng/ml	18.9
SS-D12-Benzo(e)pyrene	20.605	264.0	6120	2942.13	ND ng/ml	22.1
Benzo(e)pyrene	20.654	252.0	8147	4010.68	ND ng/ml	18.9
Benzo(a)pyrene	20.654	252.0	8147	4010.68	ND ng/ml	18.9
IS-D12-Perylene	20.871	264.0	5087	2449.62	ND ng/ml	20.9
Perylene	20.990	252.0	4988	2483.26	ND ng/ml	20.0
Indeno(1,2,3-c,d)pyrene	22.837	276.0	22	8.10	ND ng/ml	
Dibenz(a,h)anthracene	22.837	278.0	52	14.48	ND ng/ml	42.6
Benzo(g,h,i)perylene	23.249	276.0	12	5.78	ND ng/ml	
Coronene	25.876	300.0	31	8.00	ND ng/ml	

IS-D8-Naphthalene

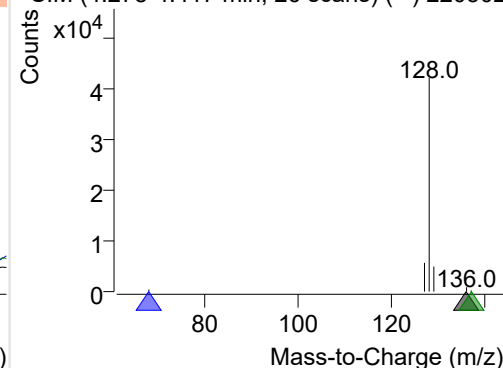
+ Selected Ion (136.0) 220302-PAHs-045.D



136.0, 68.0, 137.0

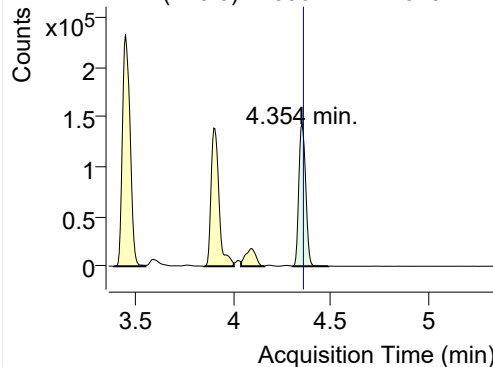


+ SIM (4.278-4.417 min, 26 scans) (**) 220302

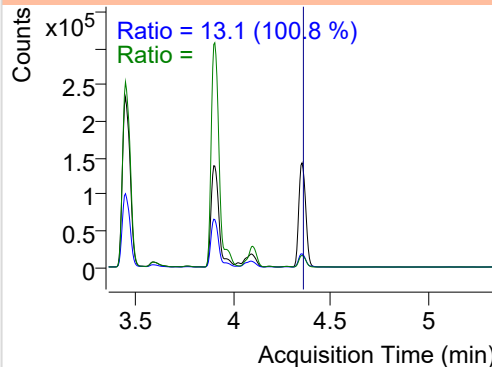


Naphthalene

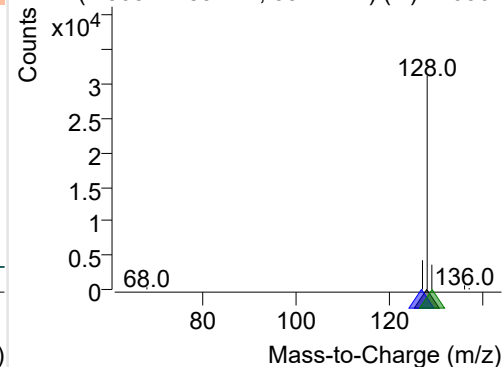
+ Selected Ion (128.0) 220302-PAHs-045.D



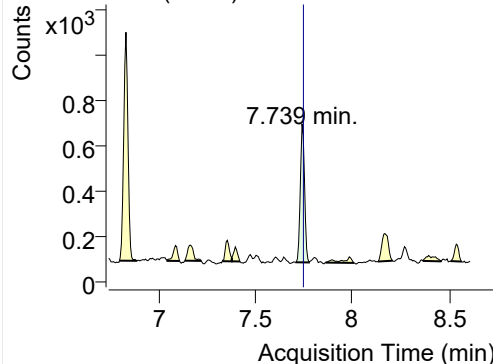
128.0, 127.0, 129.0



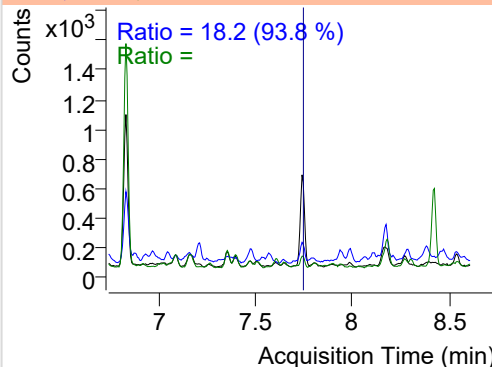
+ SIM (4.305-4.489 min, 35 scans) (**) 220302

**Acenaphthylene**

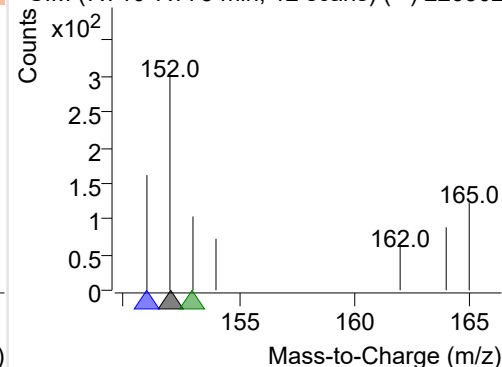
+ Selected Ion (152.0) 220302-PAHs-045.D



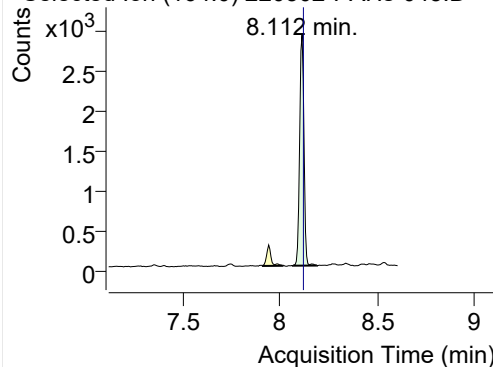
152.0, 151.0, 153.0



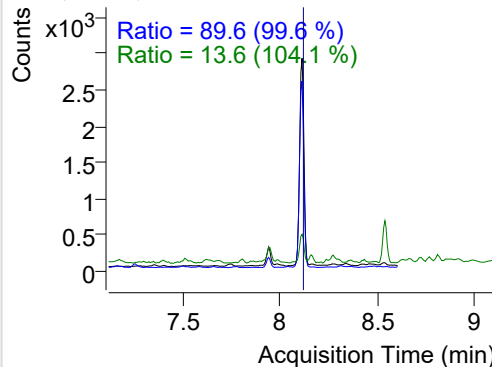
+ SIM (7.710-7.775 min, 12 scans) (**) 220302

**IS-D10-Acenaphthene**

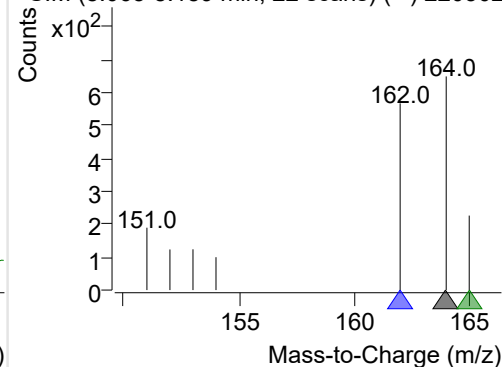
+ Selected Ion (164.0) 220302-PAHs-045.D



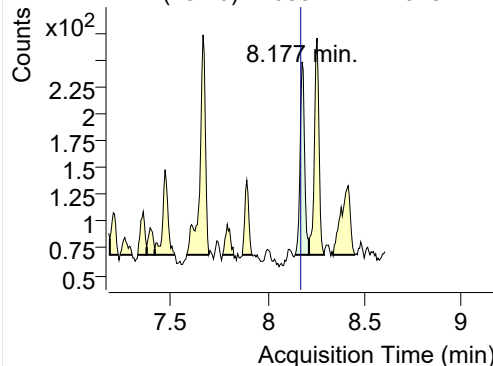
164.0, 162.0, 165.0



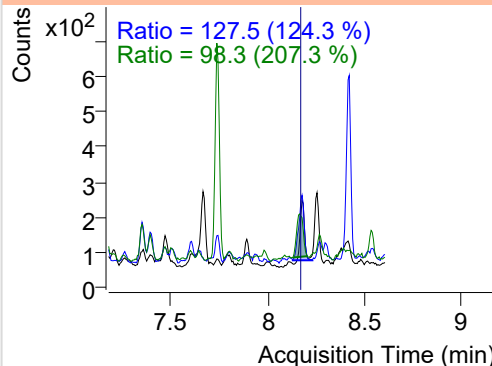
+ SIM (8.065-8.189 min, 22 scans) (**) 220302

**Acenaphthene**

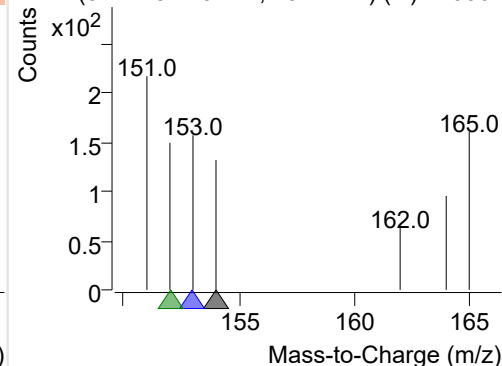
+ Selected Ion (154.0) 220302-PAHs-045.D



154.0, 153.0, 152.0

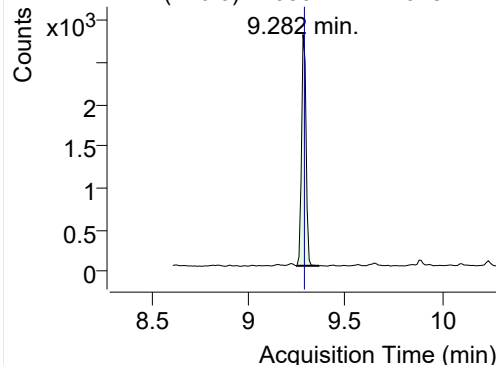


+ SIM (8.142-8.213 min, 13 scans) (**) 220302

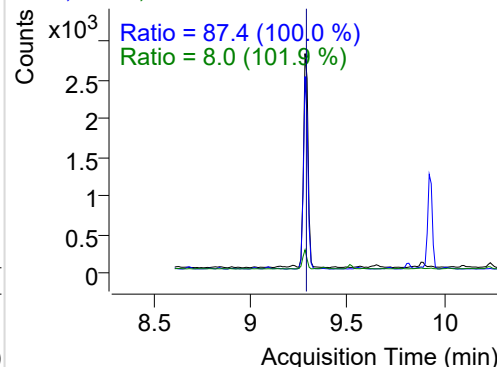


LSS-D10-Fluorene

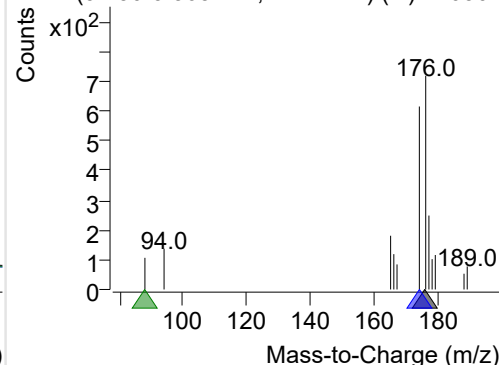
+ Selected Ion (176.0) 220302-PAHs-045.D



176.0, 174.0, 88.0

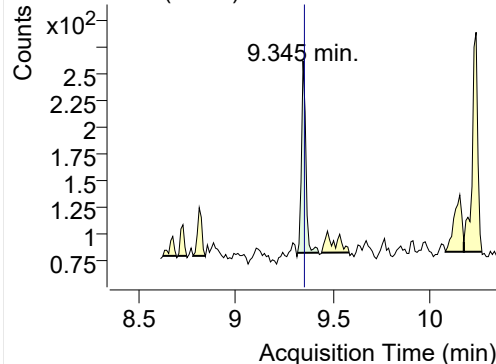


+ SIM (9.250-9.365 min, 11 scans) (**) 220302

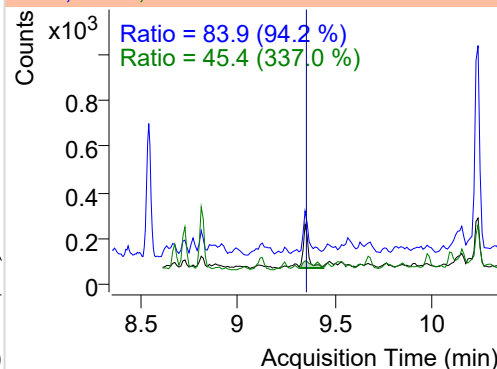


Fluorene

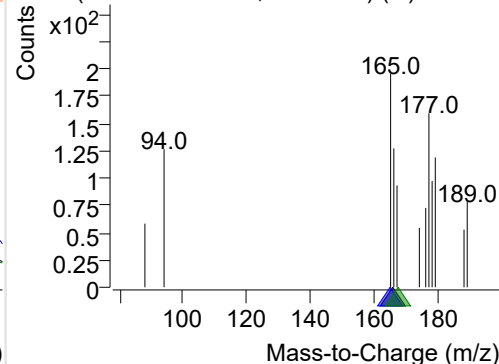
+ Selected Ion (166.0) 220302-PAHs-045.D



166.0, 165.0, 167.0

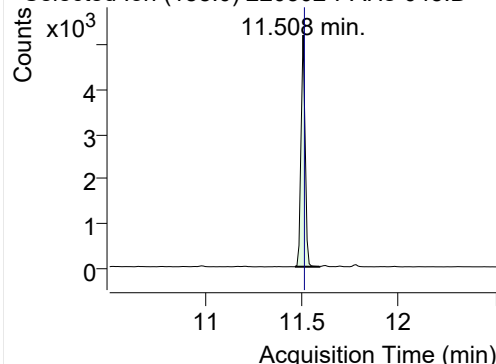


+ SIM (9.316-9.426 min, 10 scans) (**) 220302

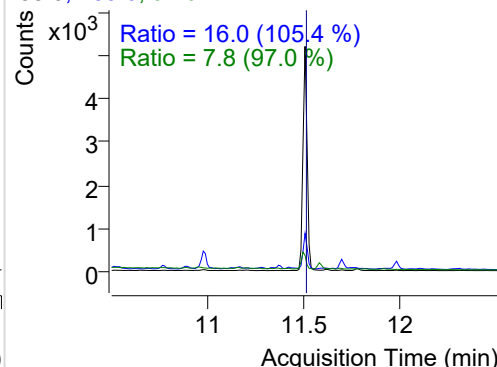


IS-D10-Phenanthrene

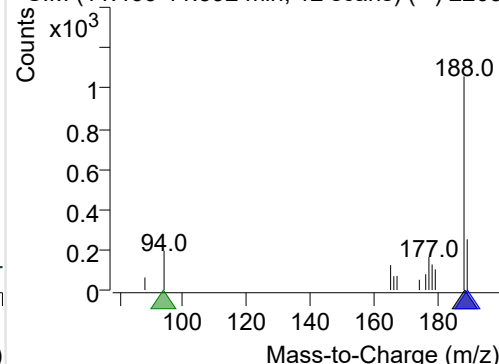
+ Selected Ion (188.0) 220302-PAHs-045.D



188.0, 189.0, 94.0

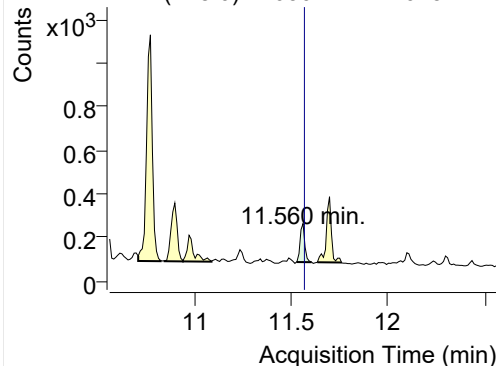


+ SIM (11.466-11.592 min, 12 scans) (**) 2203

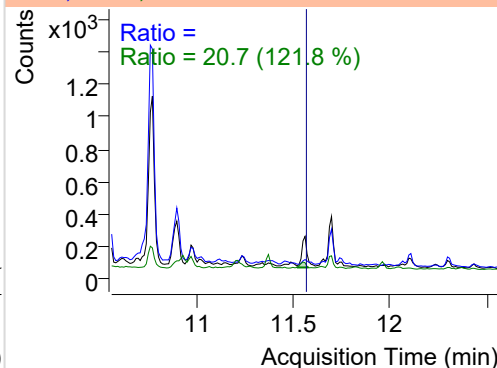


Phenanthrene

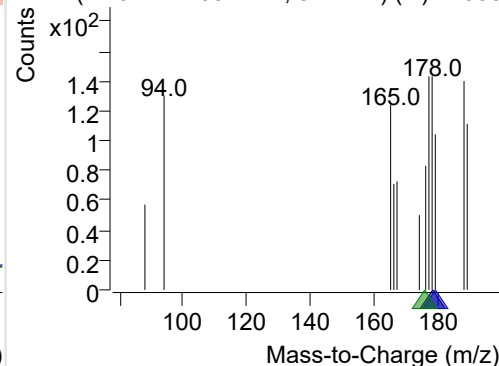
+ Selected Ion (178.0) 220302-PAHs-045.D



178.0, 179.0, 176.0

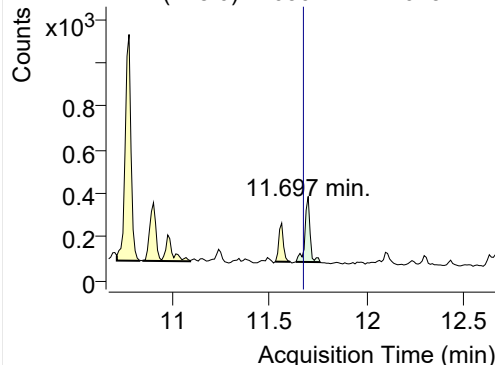


+ SIM (11.527-11.604 min, 8 scans) (**) 22030

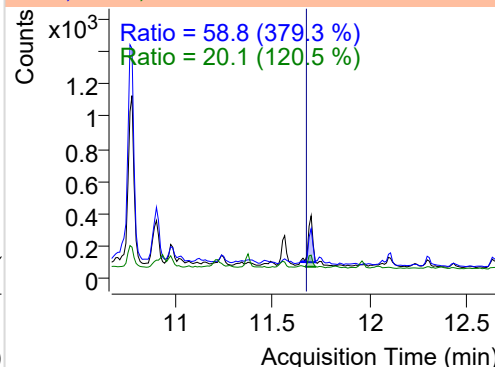


Anthracene

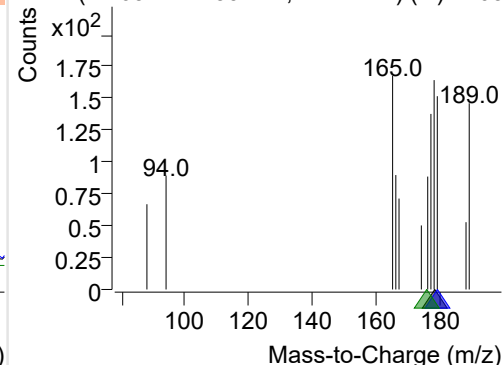
+ Selected Ion (178.0) 220302-PAHs-045.D



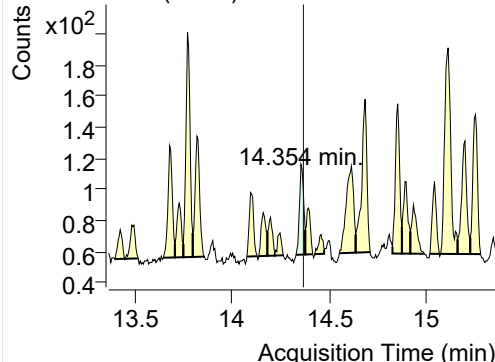
178.0, 179.0, 176.0



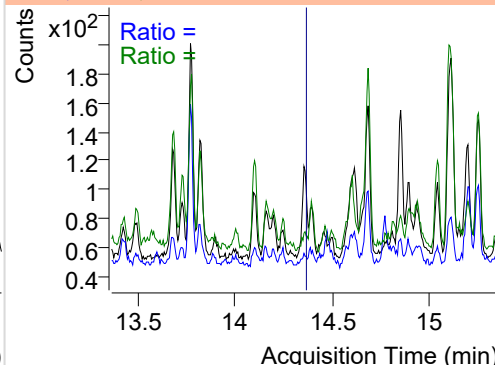
+ SIM (11.634-11.759 min, 11 scans) (**) 2203

**Fluoranthene**

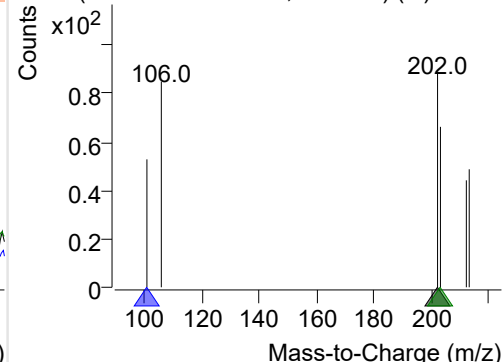
+ Selected Ion (202.0) 220302-PAHs-045.D



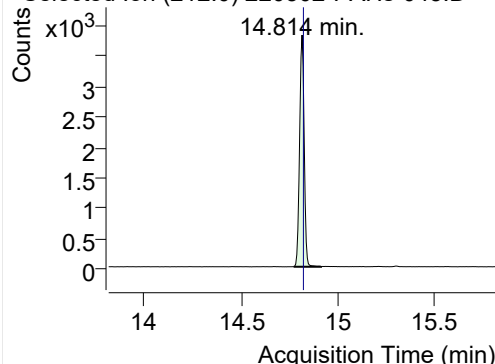
202.0, 101.0, 203.0



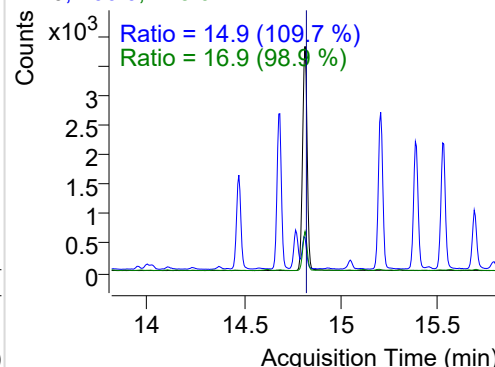
+ SIM (14.328-14.375 min, 9 scans) (**) 22030

**LSS-D10-Pyrene**

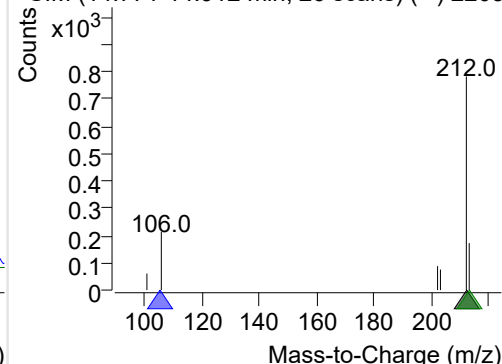
+ Selected Ion (212.0) 220302-PAHs-045.D



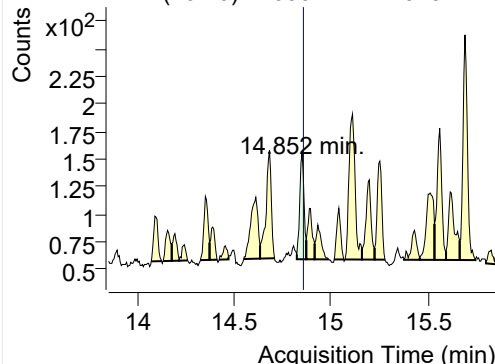
212.0, 106.0, 213.0



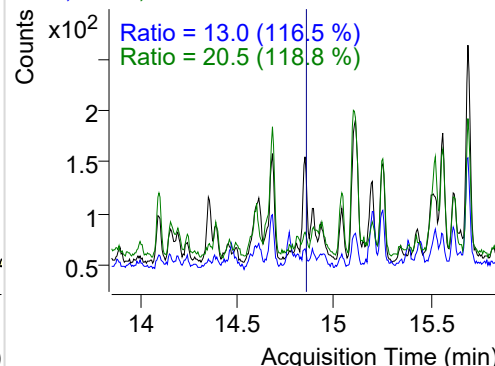
+ SIM (14.771-14.912 min, 26 scans) (**) 2203

**Pyrene**

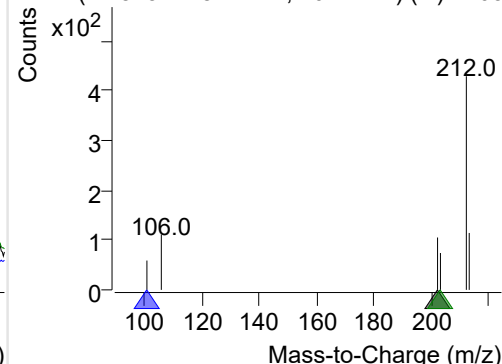
+ Selected Ion (202.0) 220302-PAHs-045.D



202.0, 101.0, 203.0



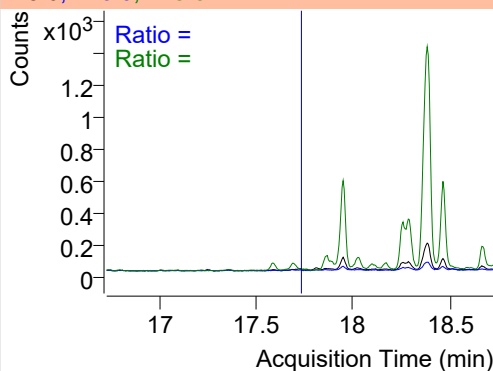
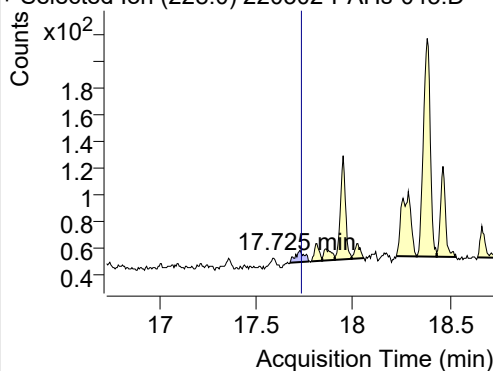
+ SIM (14.825-14.874 min, 10 scans) (**) 2203



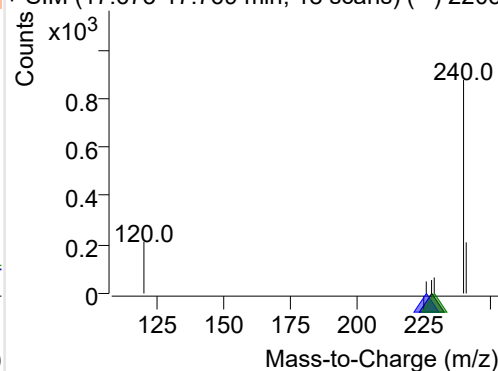
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-045.D

228.0, 226.0, 229.0

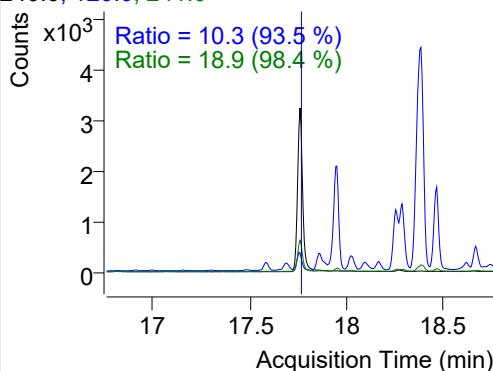
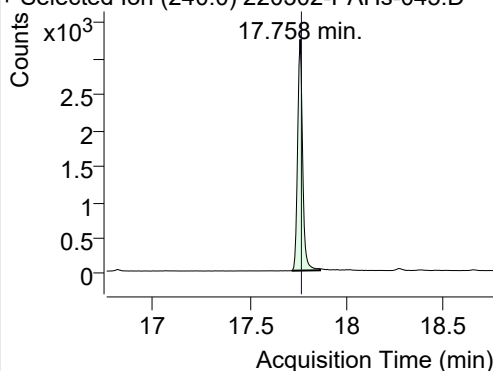


+ SIM (17.673-17.769 min, 18 scans) (**) 2203

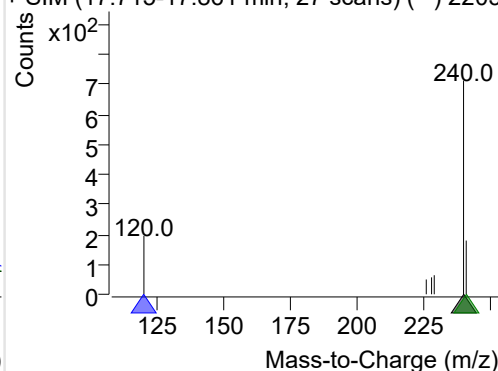
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-045.D

240.0, 120.0, 241.0

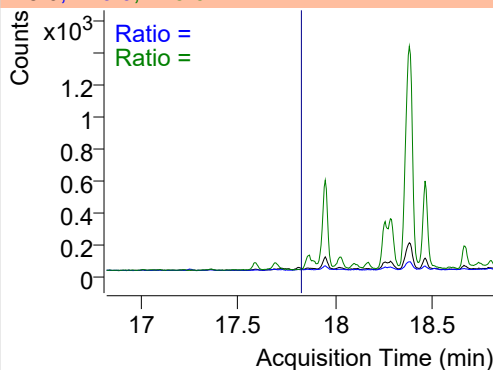
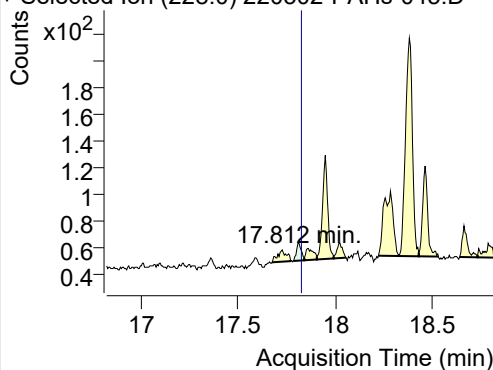


+ SIM (17.715-17.861 min, 27 scans) (**) 2203

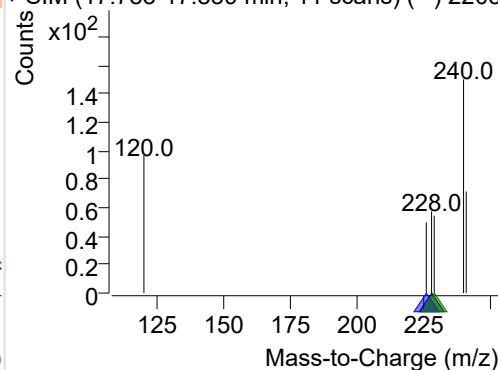
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-045.D

228.0, 226.0, 229.0

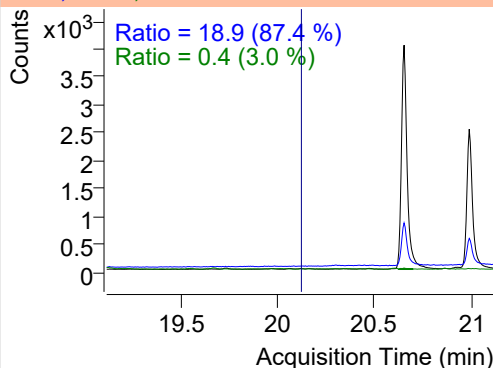
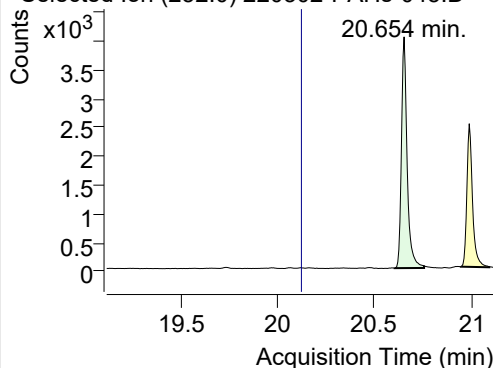


+ SIM (17.783-17.839 min, 11 scans) (**) 2203

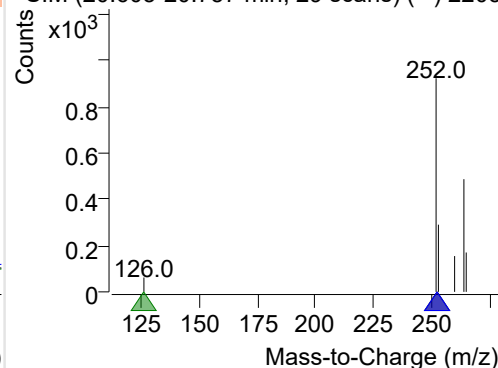
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-045.D

252.0, 253.0, 126.0

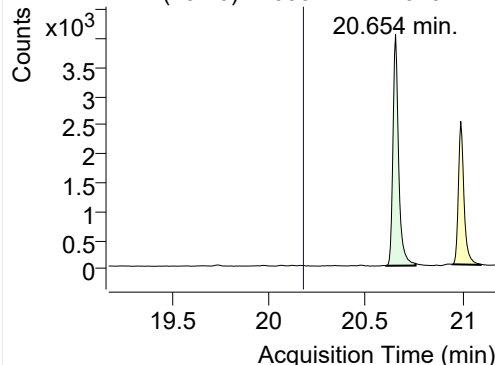


+ SIM (20.605-20.757 min, 29 scans) (**) 2203

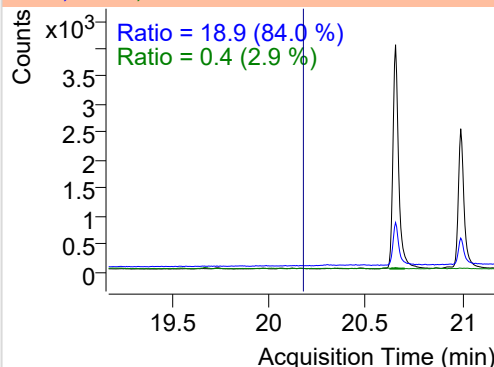


Benzo(k)fluoranthene

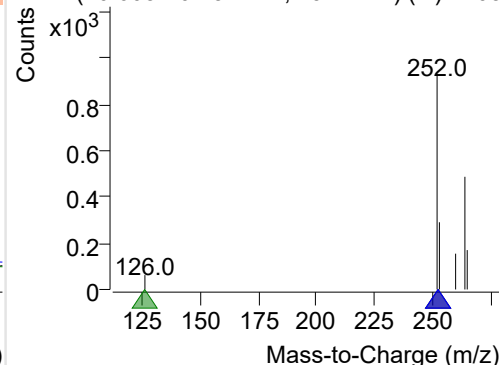
+ Selected Ion (252.0) 220302-PAHs-045.D



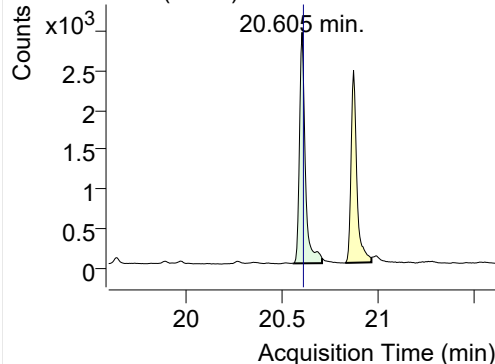
252.0, 253.0, 126.0



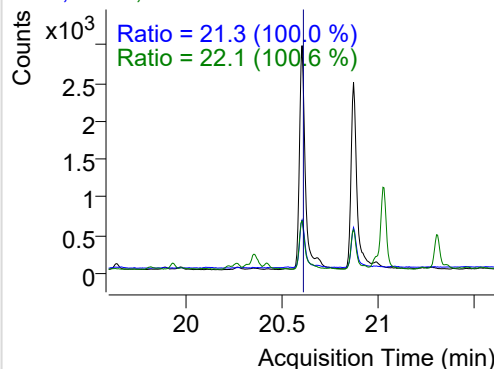
+ SIM (20.605-20.757 min, 29 scans) (**) 2203

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

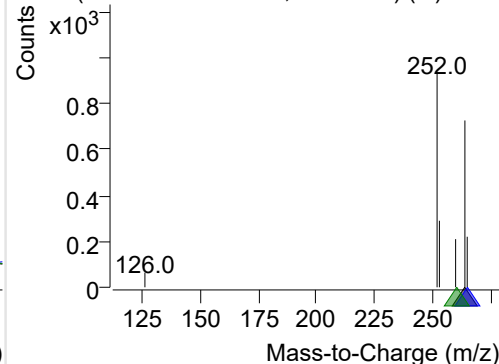
+ Selected Ion (264.0) 220302-PAHs-045.D



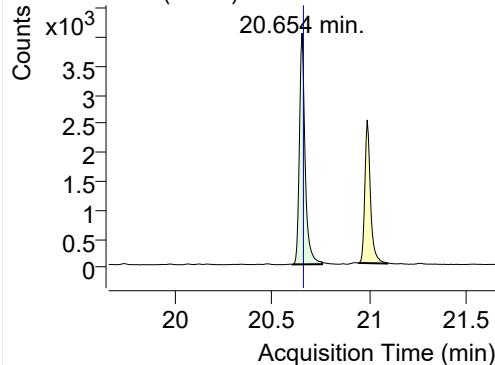
264.0, 265.0, 260.0



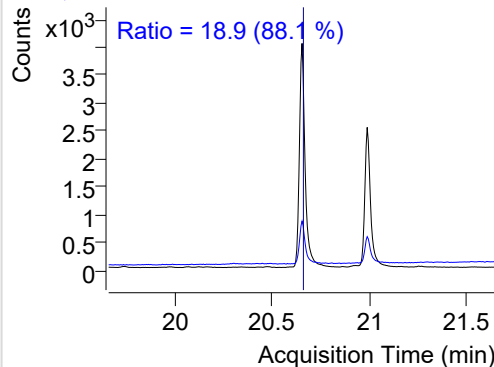
+ SIM (20.562-20.708 min, 28 scans) (**) 2203

**Benzo(e)pyrene**

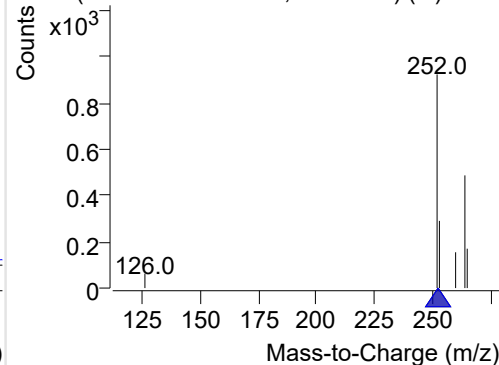
+ Selected Ion (252.0) 220302-PAHs-045.D



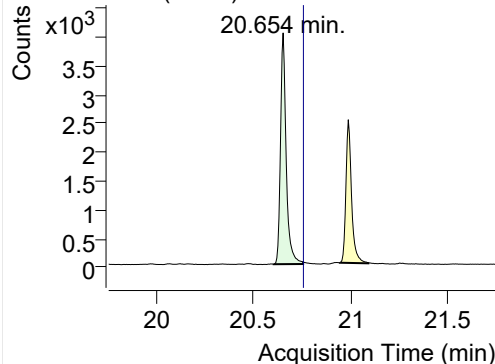
252.0, 253.0



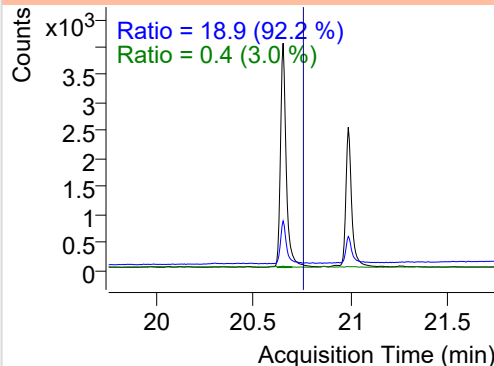
+ SIM (20.605-20.757 min, 29 scans) (**) 2203

**Benzo(a)pyrene**

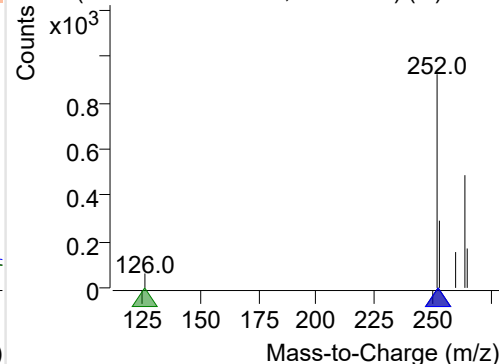
+ Selected Ion (252.0) 220302-PAHs-045.D



252.0, 253.0, 126.0

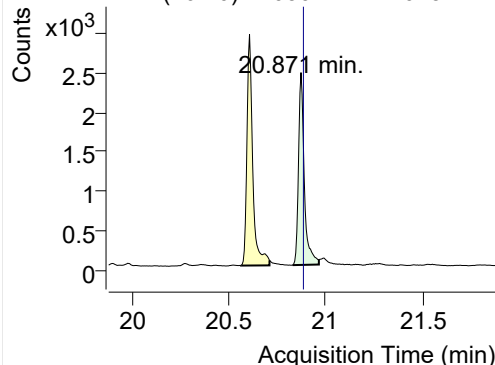


+ SIM (20.605-20.757 min, 29 scans) (**) 2203

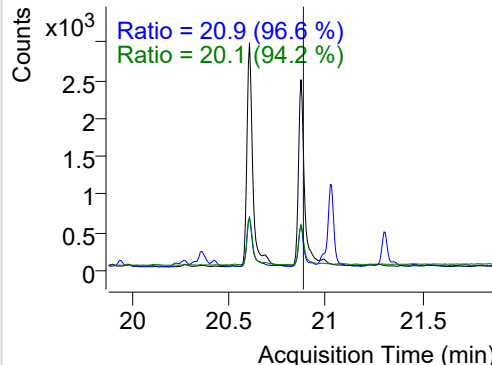


IS-D12-Perylene

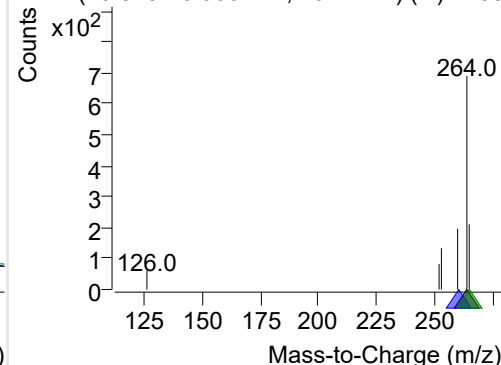
+ Selected Ion (264.0) 220302-PAHs-045.D



264.0, 260.0, 265.0

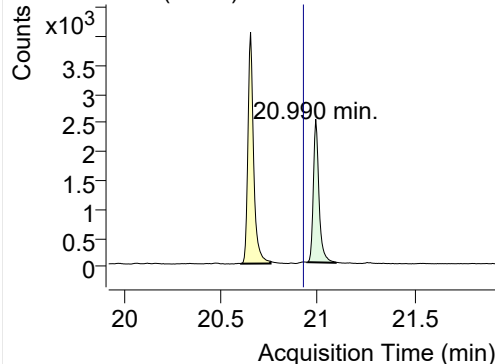


+ SIM (20.828-20.963 min, 25 scans) (**) 2203

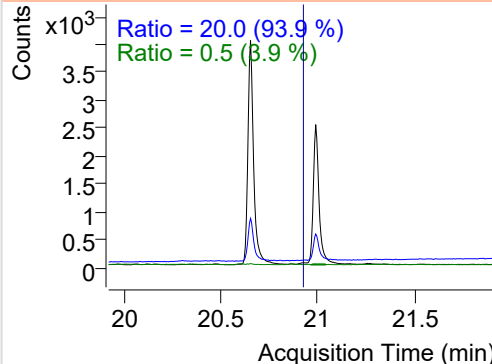


Perylene

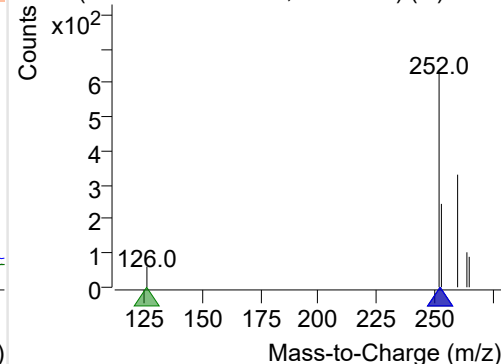
+ Selected Ion (252.0) 220302-PAHs-045.D



252.0, 253.0, 126.0

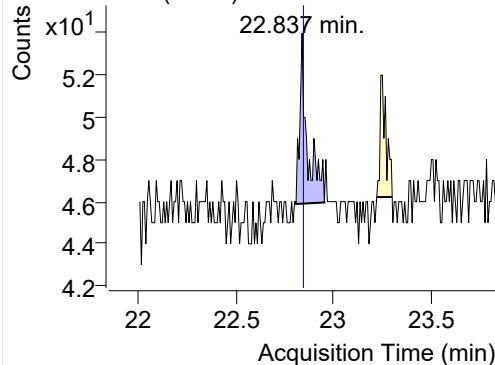


+ SIM (20.947-21.093 min, 28 scans) (**) 2203

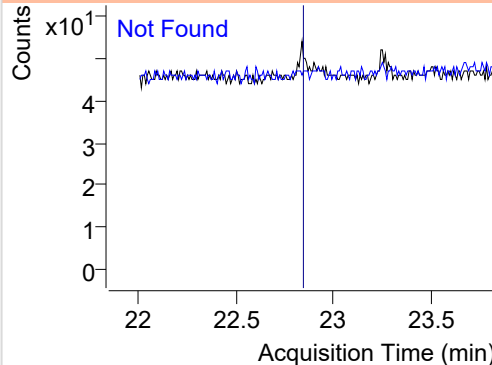


Indeno(1,2,3-c,d)pyrene

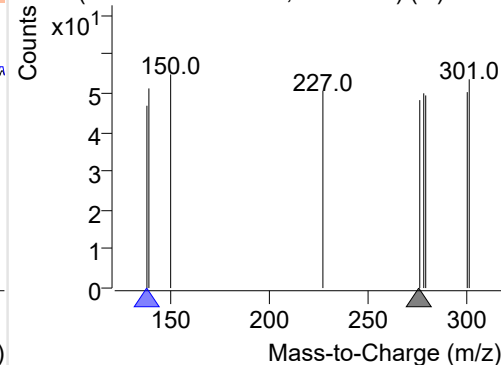
+ Selected Ion (276.0) 220302-PAHs-045.D



276.0, 138.0

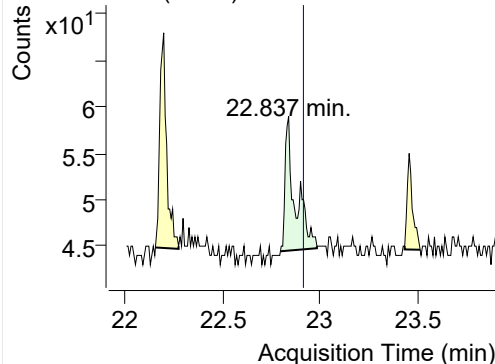


+ SIM (22.806-22.951 min, 20 scans) (**) 2203

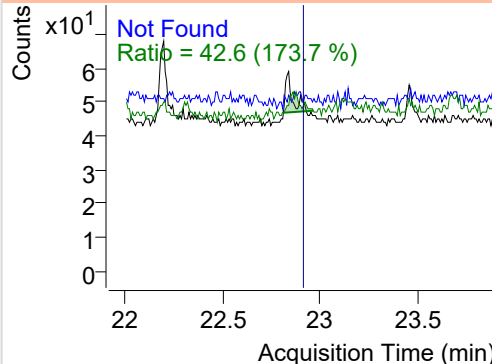


Dibenz(a,h)anthracene

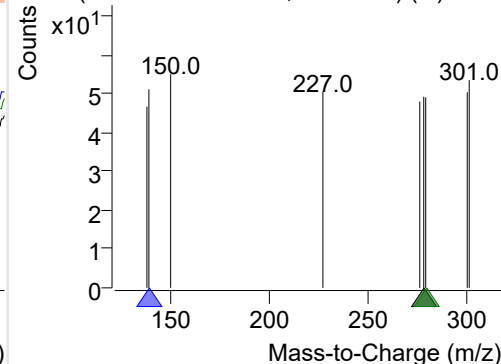
+ Selected Ion (278.0) 220302-PAHs-045.D



278.0, 139.0, 279.0



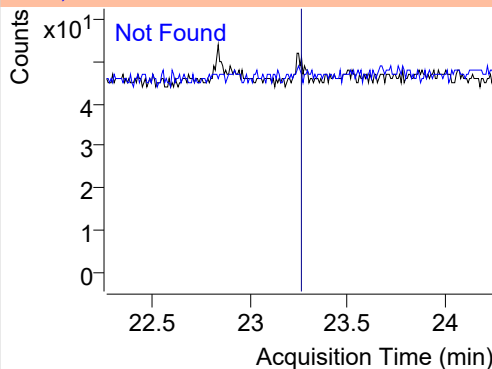
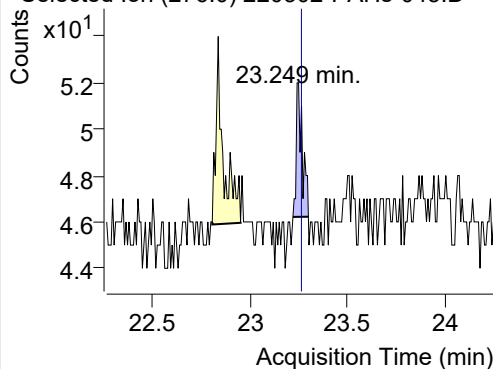
+ SIM (22.795-22.982 min, 25 scans) (**) 2203



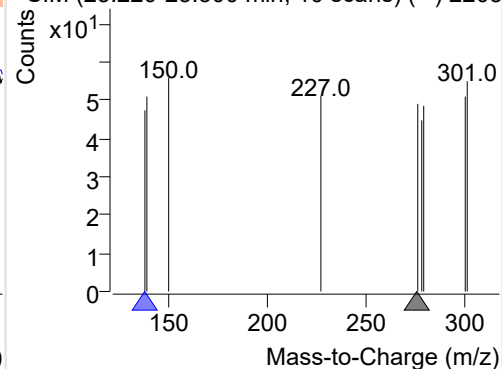
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-045.D

276.0, 138.0

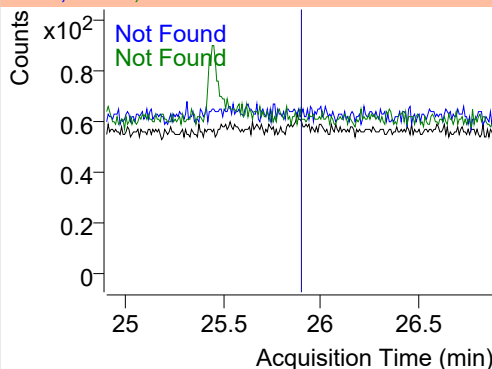
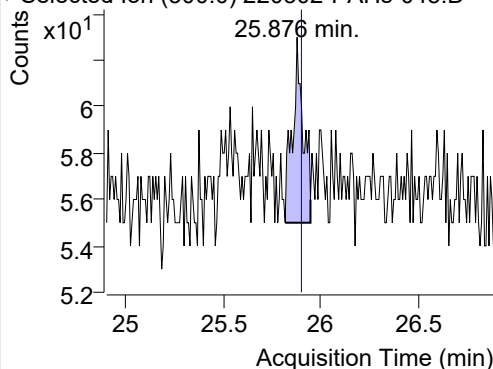


+ SIM (23.220-23.300 min, 10 scans) (**) 2203

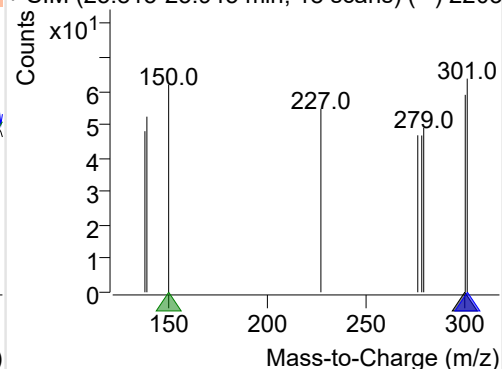
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-045.D

300.0, 301.0, 150.0



+ SIM (25.815-25.945 min, 18 scans) (**) 2203



Quantitative Analysis Sample Based Report

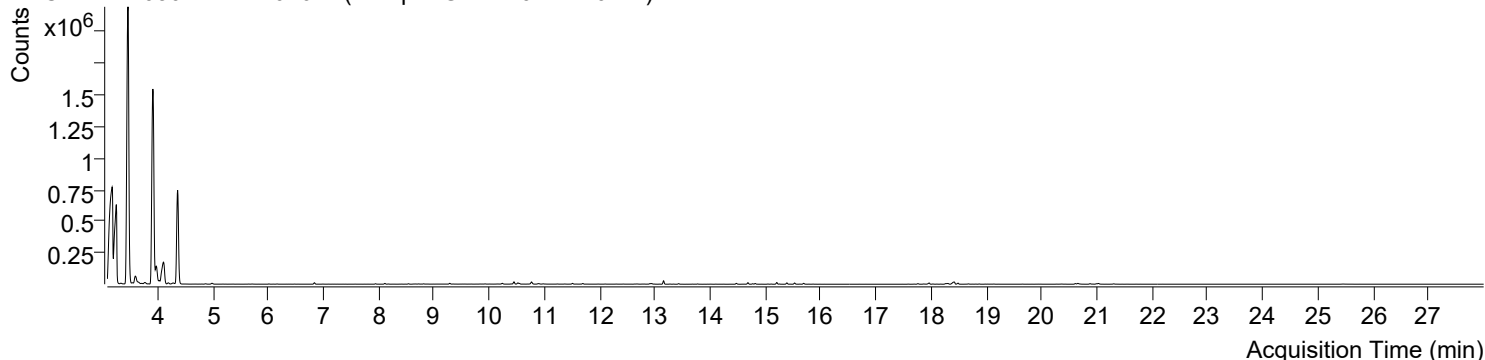


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 9:09:49	Data File	220302-PAHs-046.D
Type	Sample	Name	Sample-Gas-220217-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

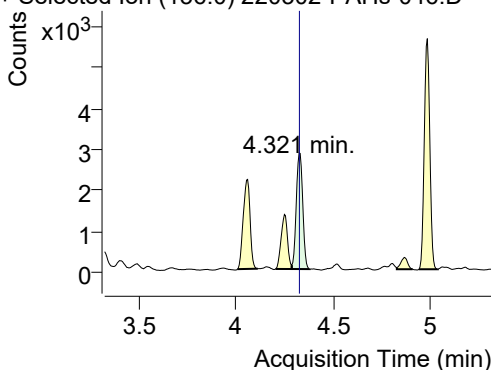
+ TIC SIM 220302-PAHs-046.D (Sample-Gas-220217-10DIL)



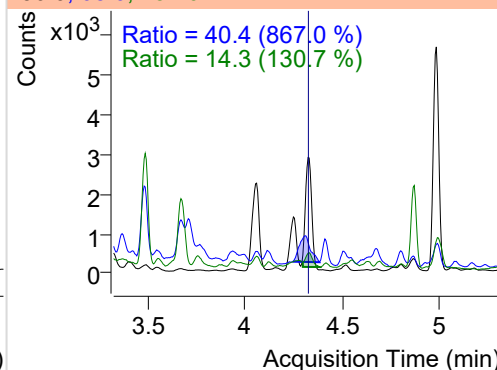
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.321	136.0	6543	2833.25	ND ng/ml	14.3
Naphthalene	4.359	128.0	1380162	599809.59	ND ng/ml	12.8
Acenaphthylene	7.739	152.0	230	165.36	ND ng/ml	36.2
IS-D10-Acenaphthene	8.112	164.0	4356	2932.92	ND ng/ml	91.9
Acenaphthene	8.177	154.0	563	380.77	ND ng/ml	114.6
LSS-D10-Fluorene	9.282	176.0	4476	2822.46	ND ng/ml	86.6
Fluorene	9.345	166.0	457	286.52	ND ng/ml	123.8
IS-D10-Phenanthrene	11.508	188.0	7420	4928.79	ND ng/ml	15.5
Phenanthrene	11.560	178.0	538	300.96	ND ng/ml	15.3
Anthracene	11.697	178.0	2350	1351.18	ND ng/ml	23.1
Fluoranthene	14.359	202.0	155	93.77	ND ng/ml	35.6
LSS-D10-Pyrene	14.814	212.0	6522	4081.50	ND ng/ml	17.3
Pyrene	14.852	202.0	213	126.59	ND ng/ml	27.0
Benz(a)anthracene	17.861	228.0	112	34.02	ND ng/ml	50.3
IS-D12-Chrysene	17.758	240.0	6001	3210.70	ND ng/ml	18.9
Chrysene	17.861	228.0	112	34.02	ND ng/ml	50.3
Benzo(b)fluoranthene	20.654	252.0	11188	5018.24	ND ng/ml	18.5
Benzo(k)fluoranthene	20.654	252.0	11188	5018.24	ND ng/ml	18.5
SS-D12-Benzo(e)pyrene	20.611	264.0	6668	3316.56	ND ng/ml	27.0
Benzo(e)pyrene	20.654	252.0	11188	5018.24	ND ng/ml	18.5
Benzo(a)pyrene	20.654	252.0	11188	5018.24	ND ng/ml	18.5
IS-D12-Perylene	20.876	264.0	5248	2649.65	ND ng/ml	21.3
Perylene	20.990	252.0	4550	1952.33	ND ng/ml	19.1
Indeno(1,2,3-c,d)pyrene	22.837	276.0	27	7.00	ND ng/ml	69.9
Dibenz(a,h)anthracene	22.837	278.0	277	75.52	ND ng/ml	35.9
Benzo(g,h,i)perylene	23.242	276.0	16	7.70	ND ng/ml	
Coronene	25.884	300.0	25	6.18	ND ng/ml	

IS-D8-Naphthalene

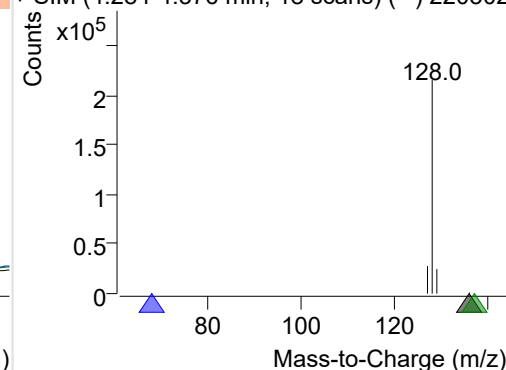
+ Selected Ion (136.0) 220302-PAHs-046.D



136.0, 68.0, 137.0

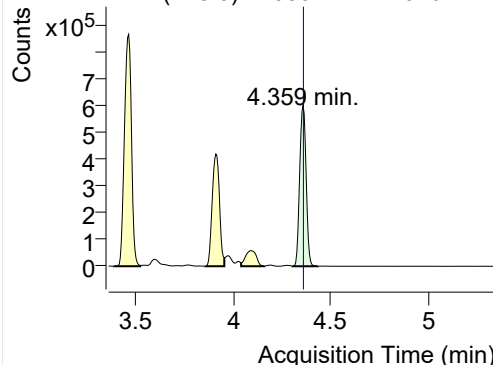


+ SIM (4.284-4.376 min, 18 scans) (**) 220302

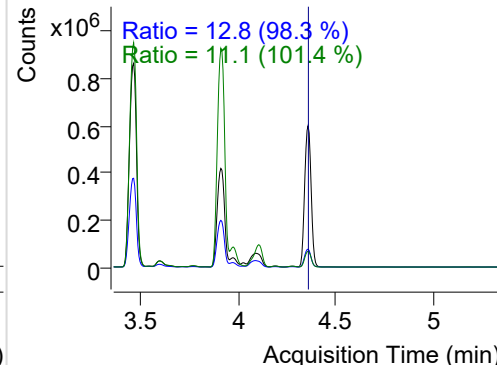


Naphthalene

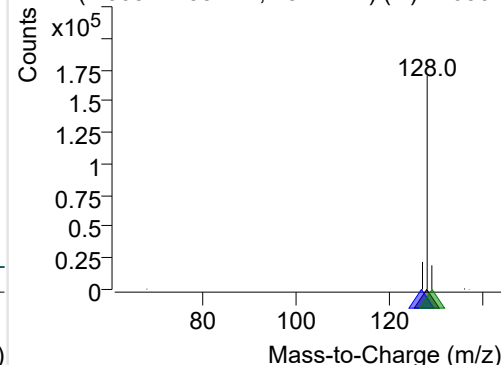
+ Selected Ion (128.0) 220302-PAHs-046.D



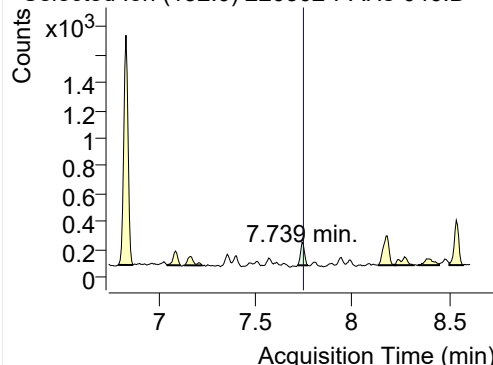
128.0, 127.0, 129.0



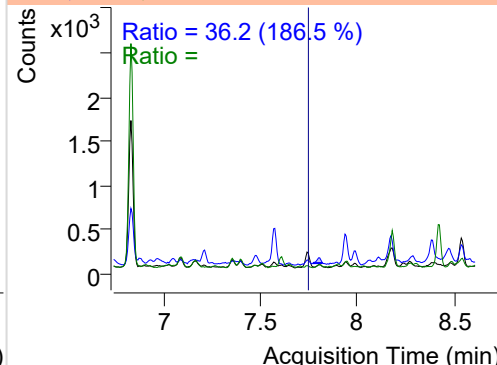
+ SIM (4.305-4.435 min, 25 scans) (**) 220302

**Acenaphthylene**

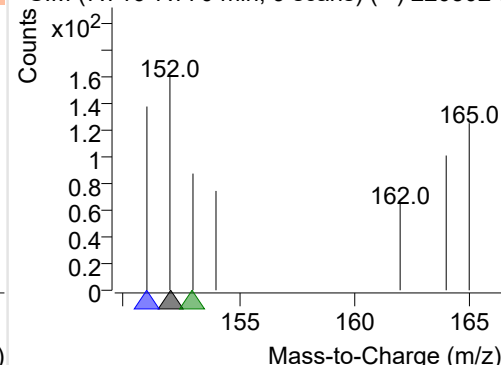
+ Selected Ion (152.0) 220302-PAHs-046.D



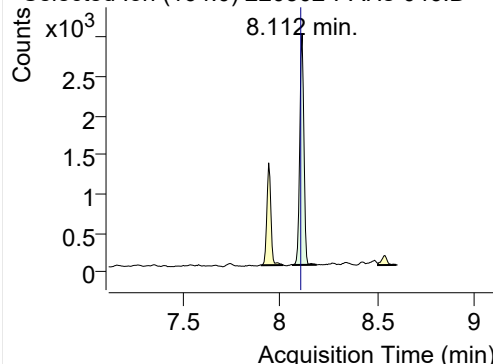
152.0, 151.0, 153.0



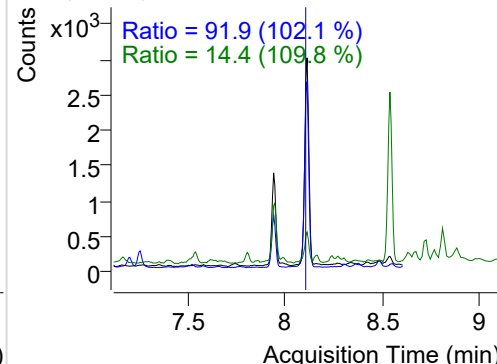
+ SIM (7.716-7.770 min, 9 scans) (**) 220302-I

**IS-D10-Acenaphthene**

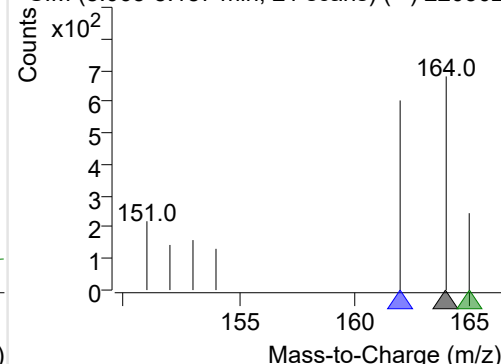
+ Selected Ion (164.0) 220302-PAHs-046.D



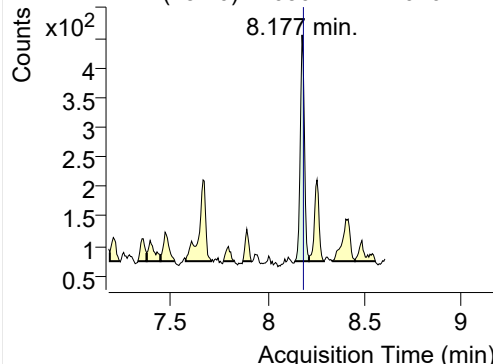
164.0, 162.0, 165.0



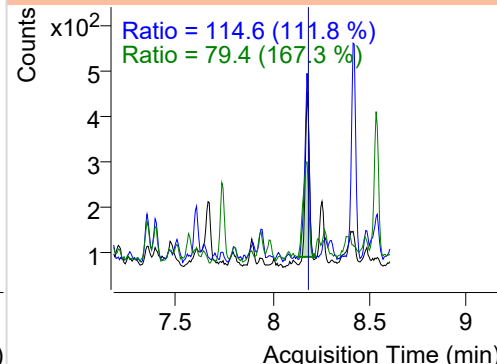
+ SIM (8.065-8.187 min, 21 scans) (**) 220302

**Acenaphthene**

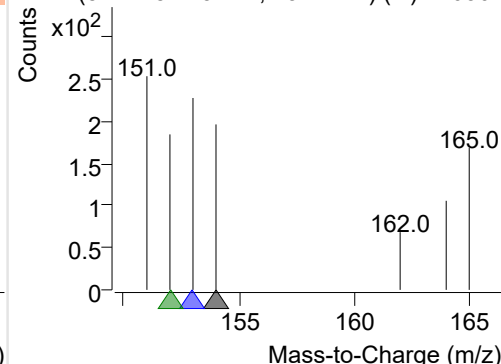
+ Selected Ion (154.0) 220302-PAHs-046.D



154.0, 153.0, 152.0

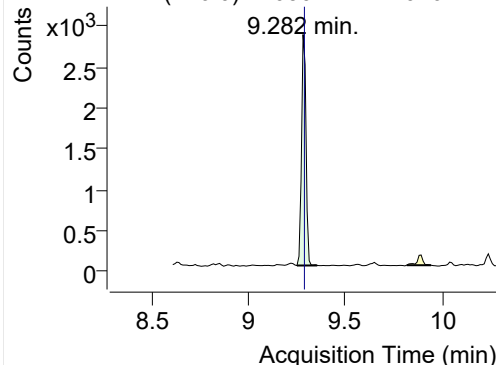


+ SIM (8.142-8.213 min, 13 scans) (**) 220302

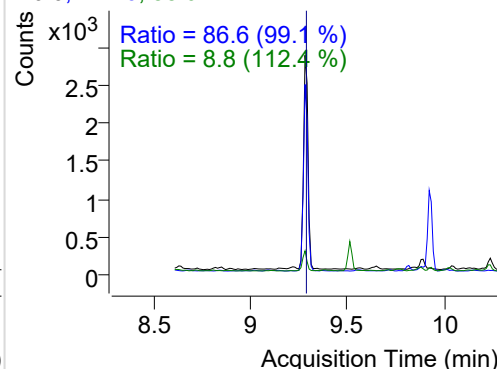


LSS-D10-Fluorene

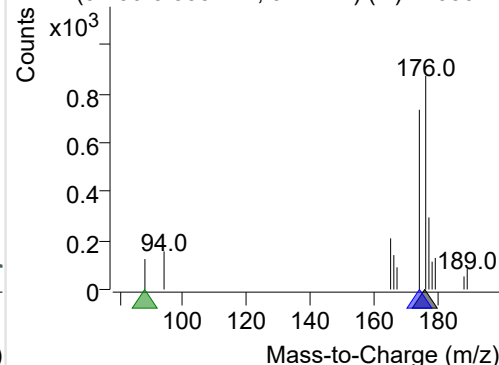
+ Selected Ion (176.0) 220302-PAHs-046.D



176.0, 174.0, 88.0

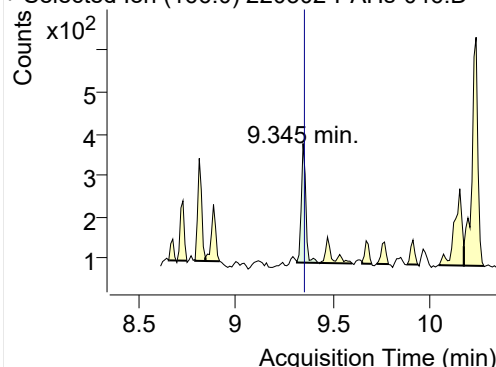


+ SIM (9.250-9.355 min, 9 scans) (**) 220302-I

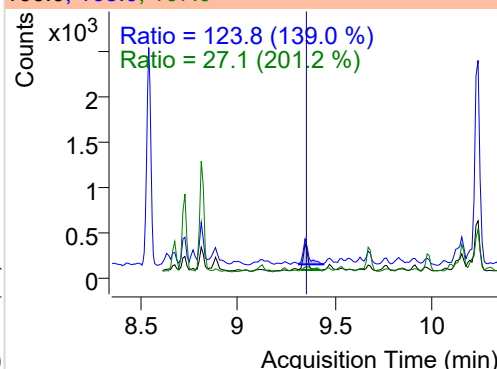


Fluorene

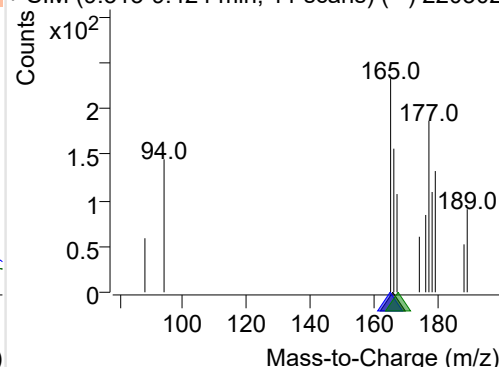
+ Selected Ion (166.0) 220302-PAHs-046.D



166.0, 165.0, 167.0

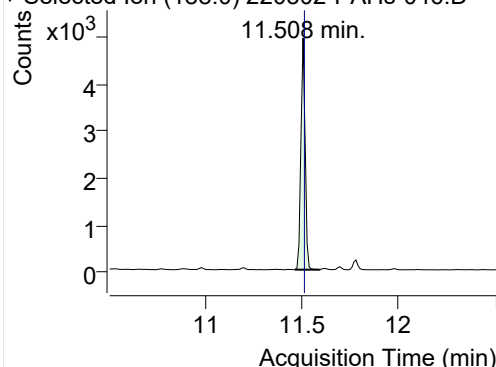


+ SIM (9.313-9.424 min, 11 scans) (**) 220302

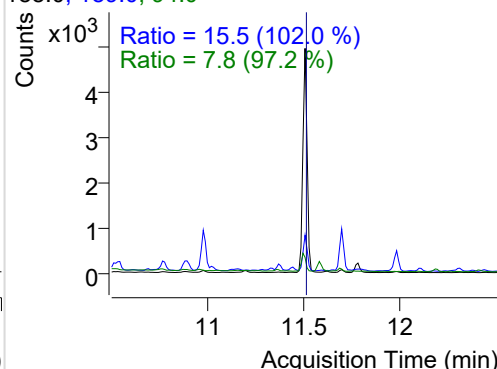


IS-D10-Phenanthrene

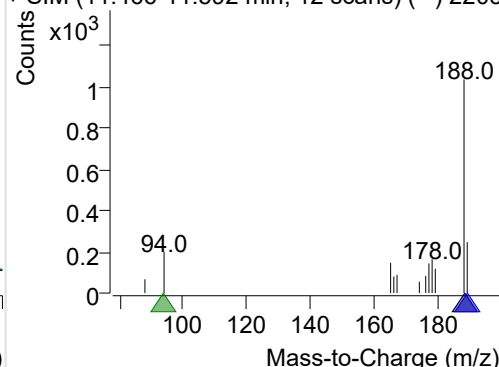
+ Selected Ion (188.0) 220302-PAHs-046.D



188.0, 189.0, 94.0

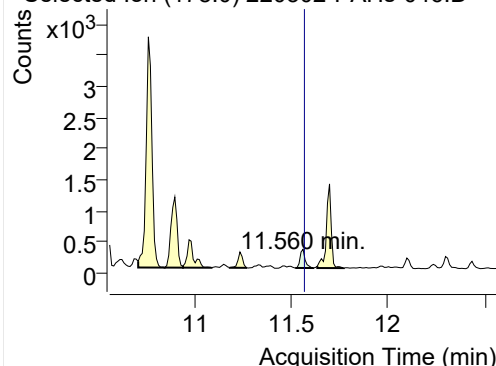


+ SIM (11.466-11.592 min, 12 scans) (**) 2203

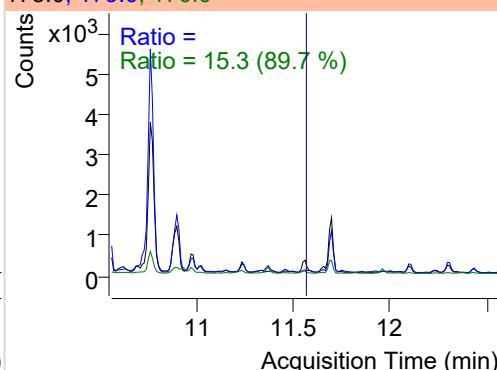


Phenanthrene

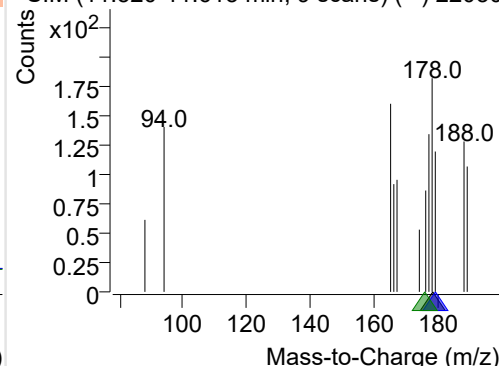
+ Selected Ion (178.0) 220302-PAHs-046.D



178.0, 179.0, 176.0

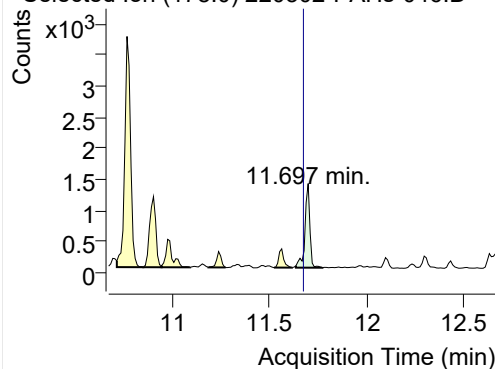


+ SIM (11.520-11.613 min, 9 scans) (**) 22030

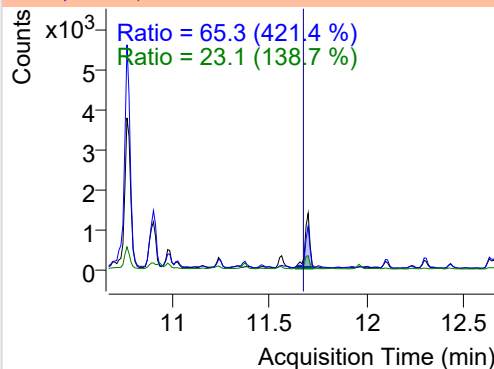


Anthracene

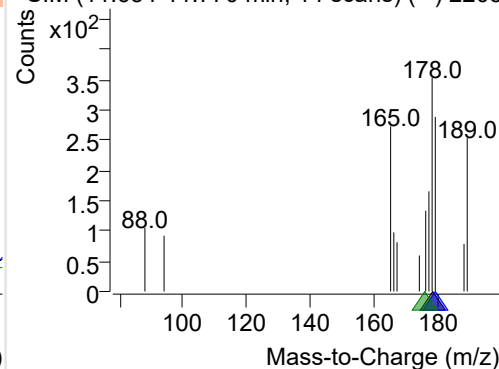
+ Selected Ion (178.0) 220302-PAHs-046.D



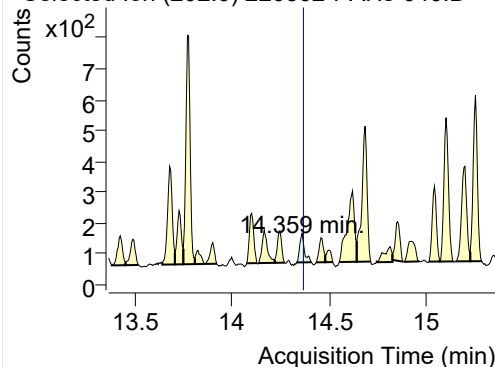
178.0, 179.0, 176.0



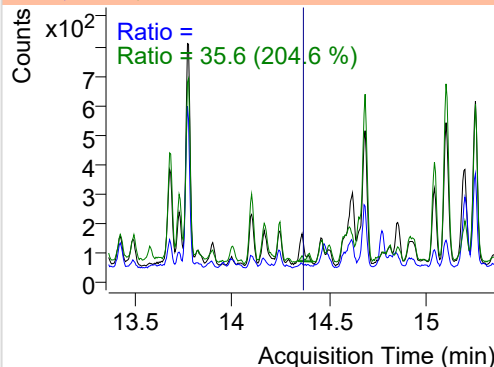
+ SIM (11.634-11.770 min, 14 scans) (**) 2203

**Fluoranthene**

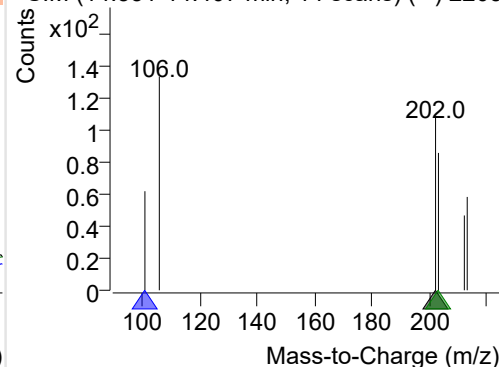
+ Selected Ion (202.0) 220302-PAHs-046.D



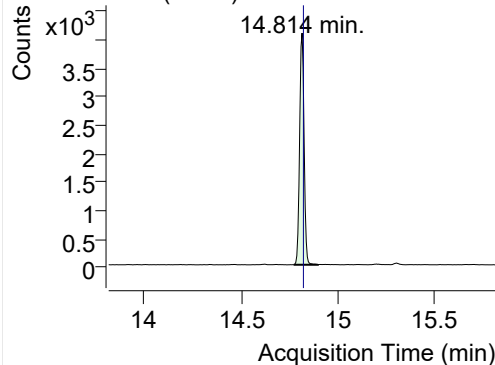
202.0, 101.0, 203.0



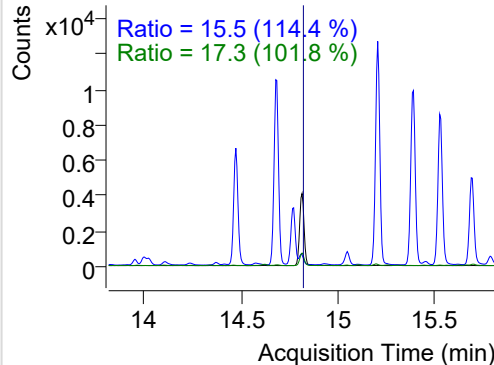
+ SIM (14.331-14.407 min, 14 scans) (**) 2203

**LSS-D10-Pyrene**

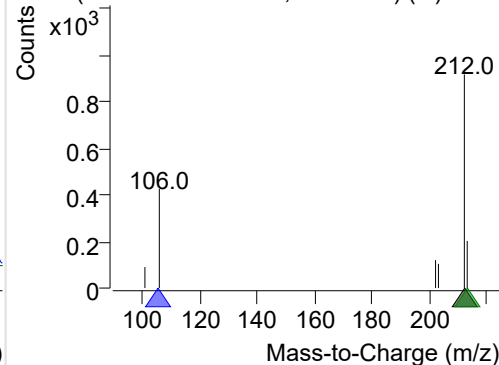
+ Selected Ion (212.0) 220302-PAHs-046.D



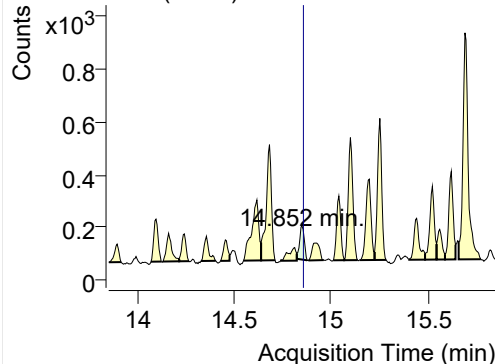
212.0, 106.0, 213.0



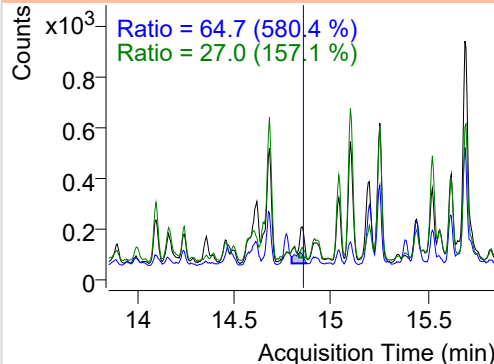
+ SIM (14.771-14.896 min, 23 scans) (**) 2203

**Pyrene**

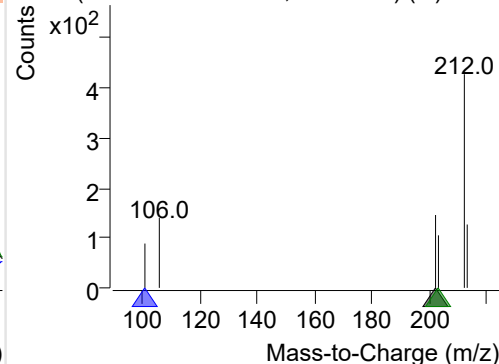
+ Selected Ion (202.0) 220302-PAHs-046.D



202.0, 101.0, 203.0



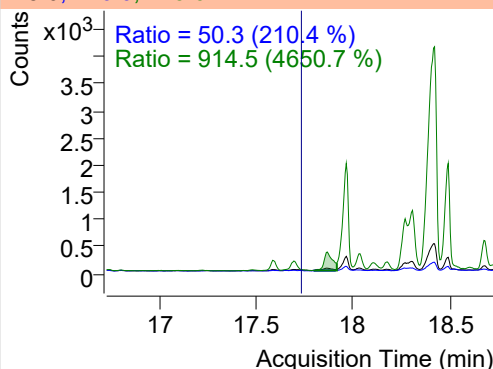
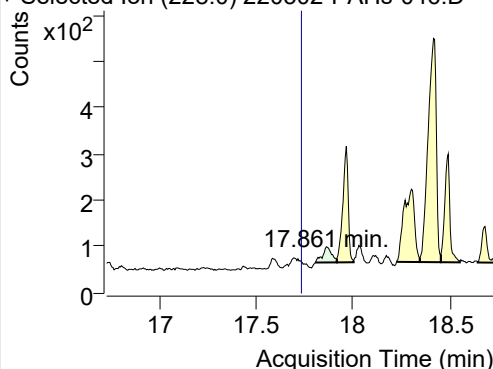
+ SIM (14.825-14.879 min, 10 scans) (**) 2203



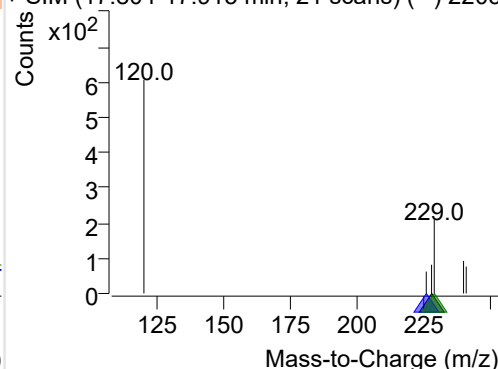
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-046.D

228.0, 226.0, 229.0

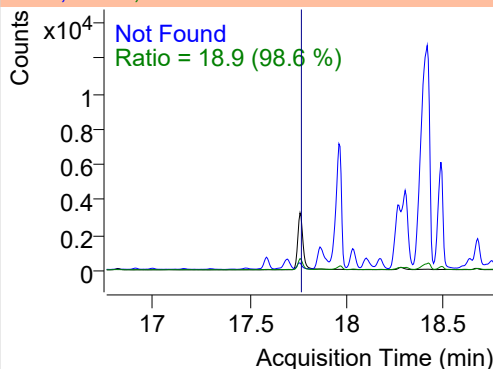
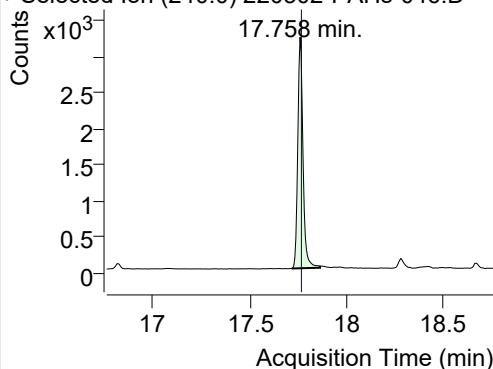


+ SIM (17.804-17.915 min, 21 scans) (**) 2203

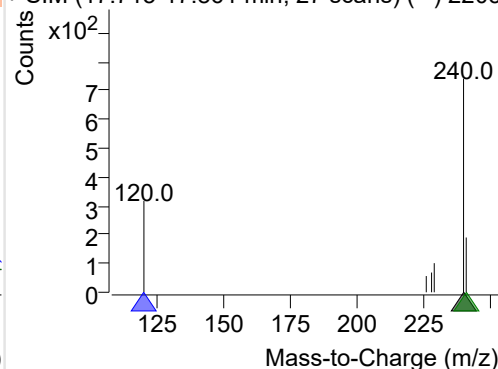
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-046.D

240.0, 120.0, 241.0

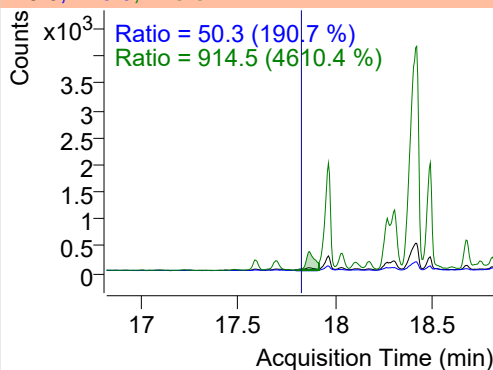
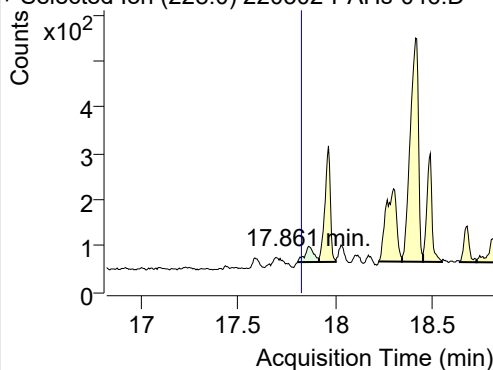


+ SIM (17.715-17.861 min, 27 scans) (**) 2203

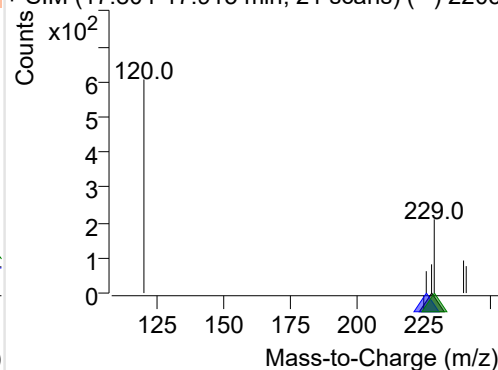
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-046.D

228.0, 226.0, 229.0

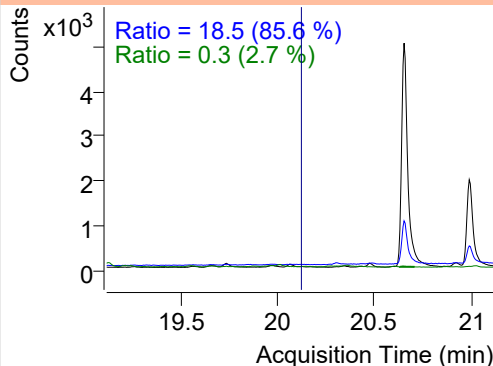
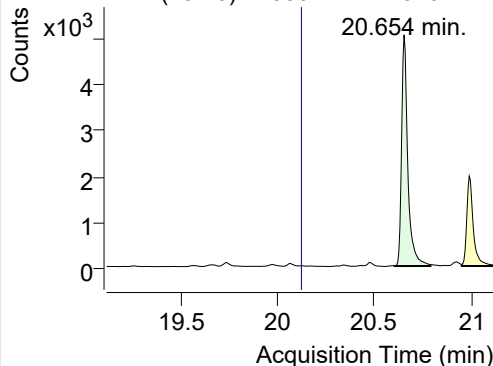


+ SIM (17.804-17.915 min, 21 scans) (**) 2203

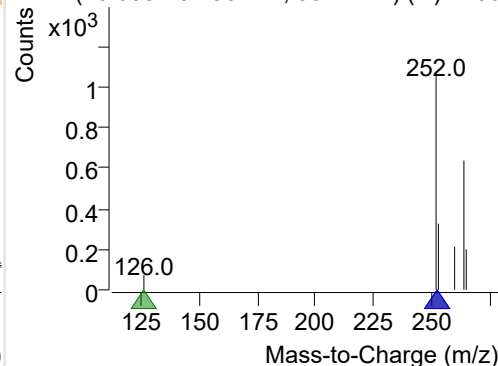
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-046.D

252.0, 253.0, 126.0

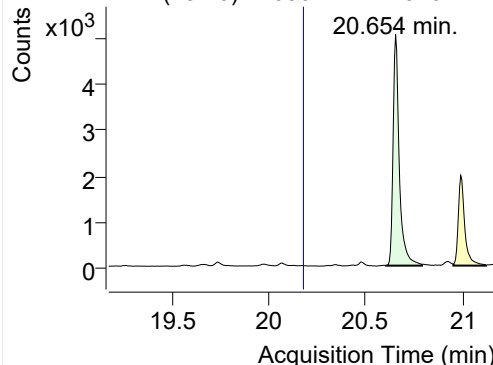


+ SIM (20.605-20.790 min, 35 scans) (**) 2203

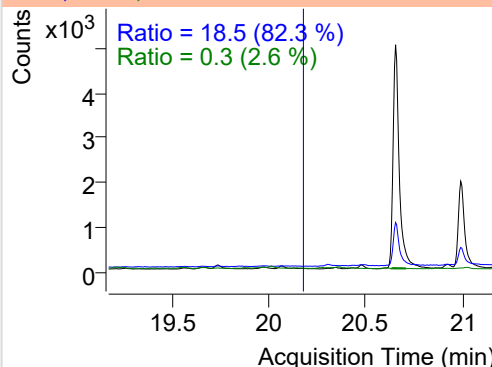


Benzo(k)fluoranthene

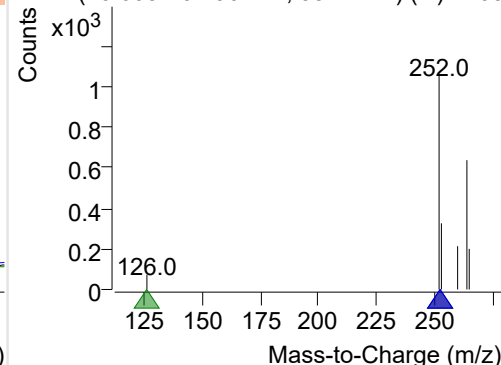
+ Selected Ion (252.0) 220302-PAHs-046.D



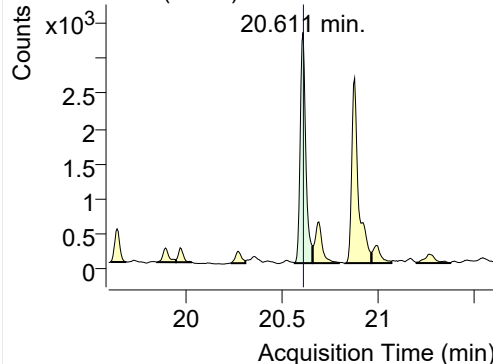
252.0, 253.0, 126.0



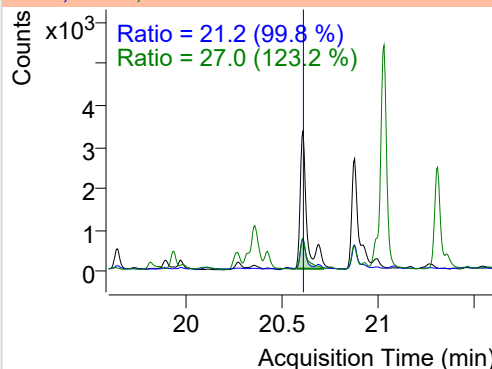
+ SIM (20.605-20.790 min, 35 scans) (**) 2203

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

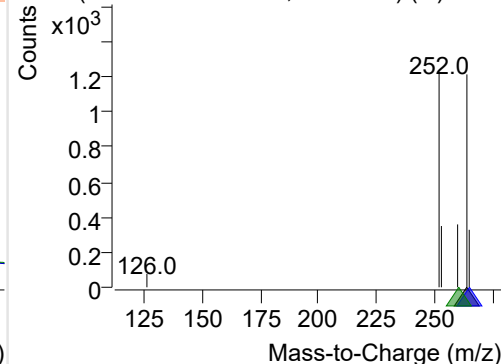
+ Selected Ion (264.0) 220302-PAHs-046.D



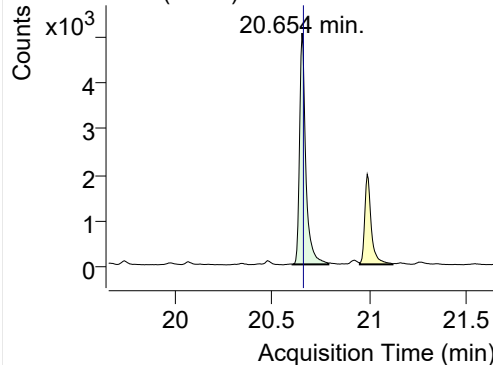
264.0, 265.0, 260.0



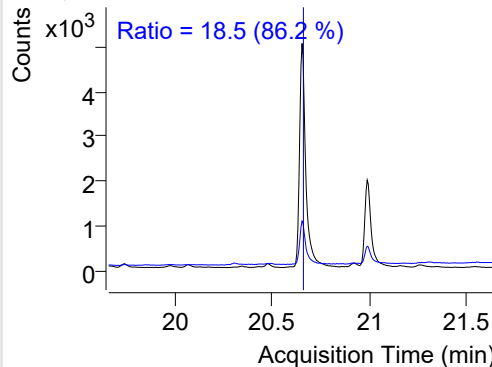
+ SIM (20.567-20.659 min, 18 scans) (**) 2203

**Benzo(e)pyrene**

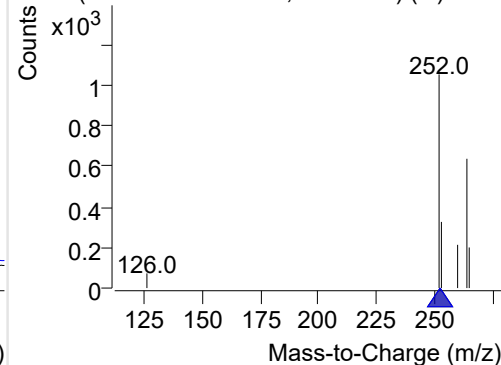
+ Selected Ion (252.0) 220302-PAHs-046.D



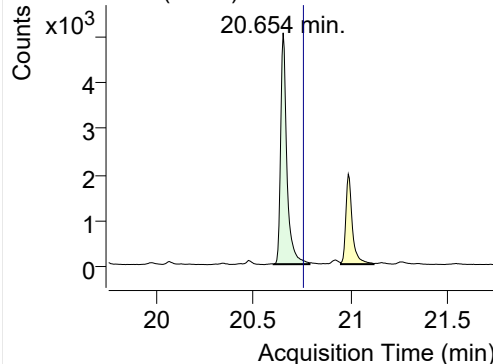
252.0, 253.0



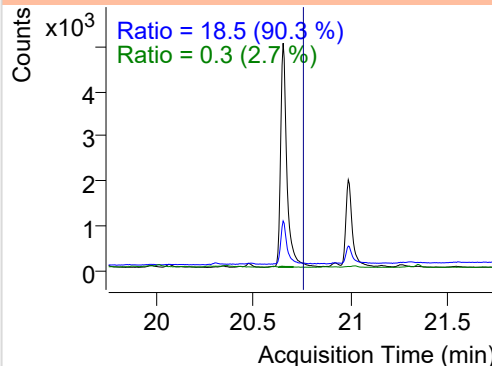
+ SIM (20.605-20.790 min, 35 scans) (**) 2203

**Benzo(a)pyrene**

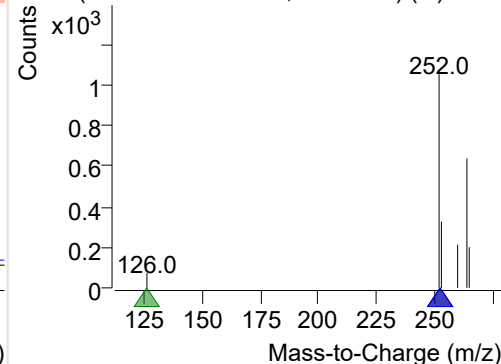
+ Selected Ion (252.0) 220302-PAHs-046.D



252.0, 253.0, 126.0

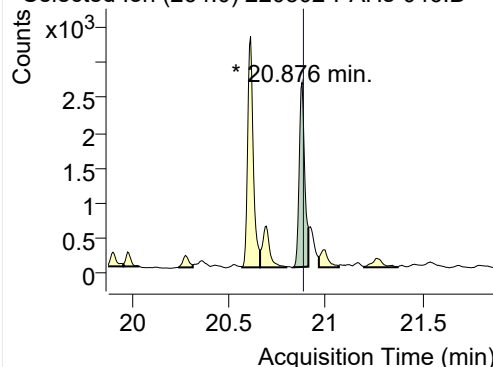


+ SIM (20.605-20.790 min, 35 scans) (**) 2203

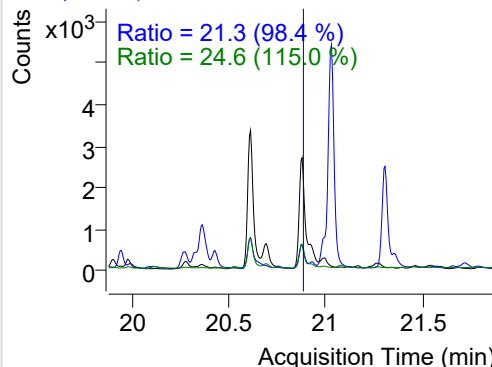


IS-D12-Perylene

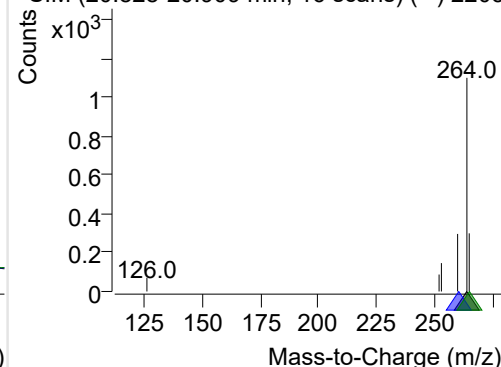
+ Selected Ion (264.0) 220302-PAHs-046.D



264.0, 260.0, 265.0

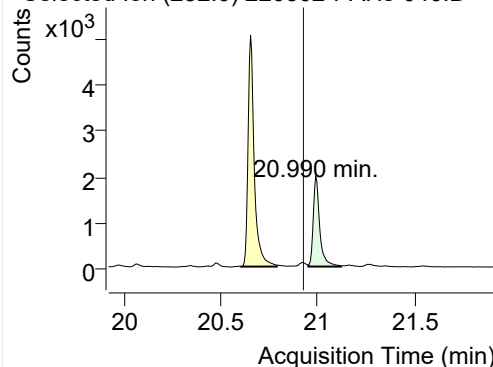
Ratio = 21.3 (98.4 %)
Ratio = 24.6 (115.0 %)

+ SIM (20.828-20.909 min, 16 scans) (**) 2203

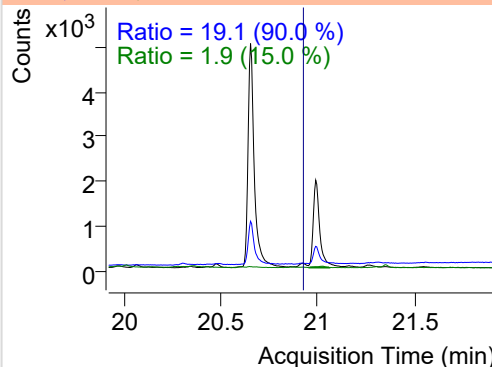


Perylene

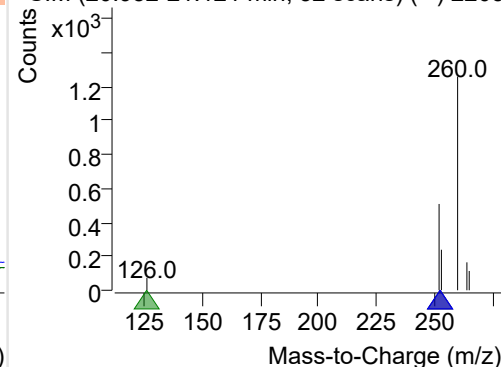
+ Selected Ion (252.0) 220302-PAHs-046.D



252.0, 253.0, 126.0

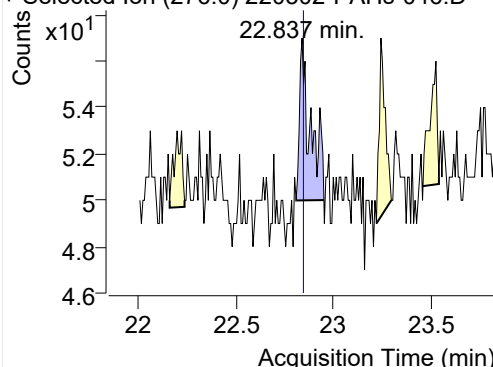
Ratio = 19.1 (90.0 %)
Ratio = 1.9 (15.0 %)

+ SIM (20.952-21.121 min, 32 scans) (**) 2203



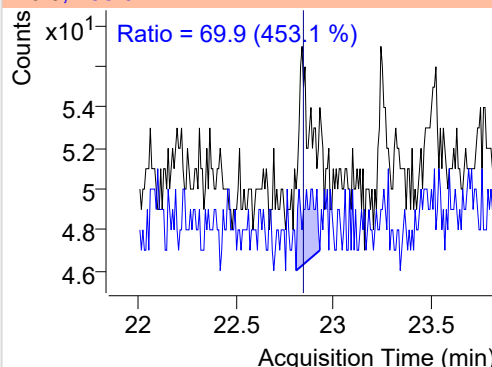
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 220302-PAHs-046.D

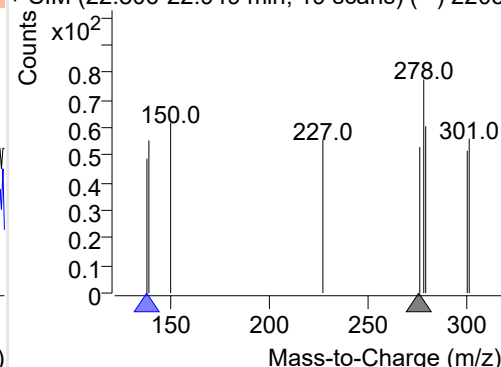


276.0, 138.0

Ratio = 69.9 (453.1 %)

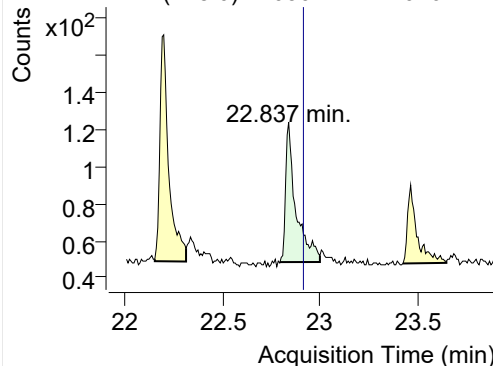


+ SIM (22.806-22.949 min, 19 scans) (**) 2203

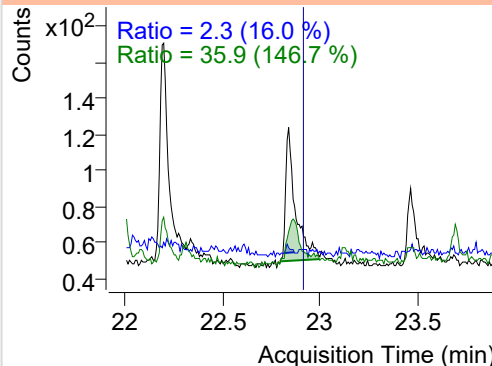


Dibenz(a,h)anthracene

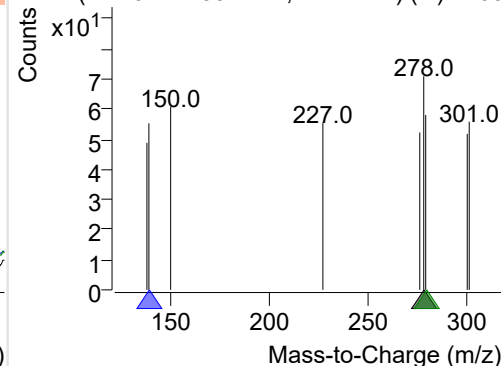
+ Selected Ion (278.0) 220302-PAHs-046.D



278.0, 139.0, 279.0

Ratio = 2.3 (16.0 %)
Ratio = 35.9 (146.7 %)

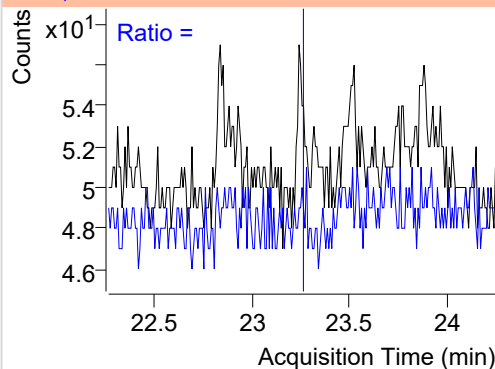
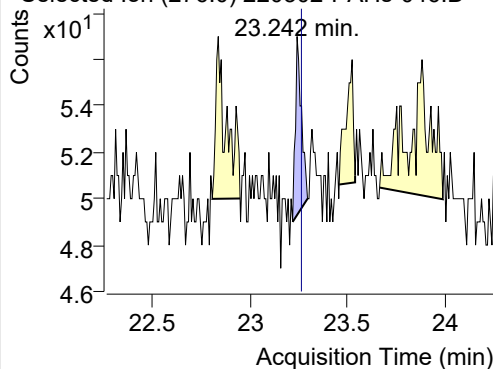
+ SIM (22.792-22.997 min, 27 scans) (**) 2203



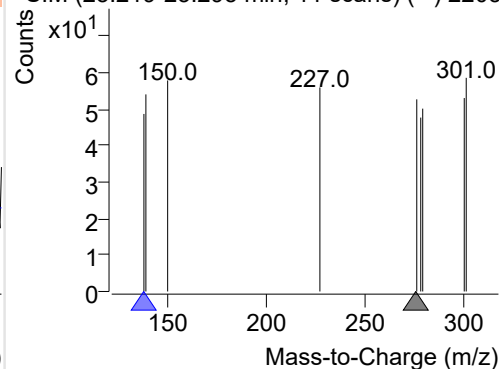
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-046.D

276.0, 138.0

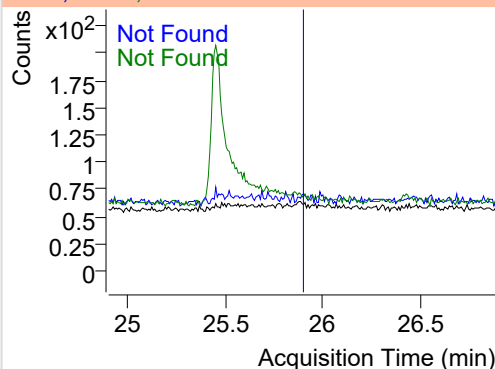
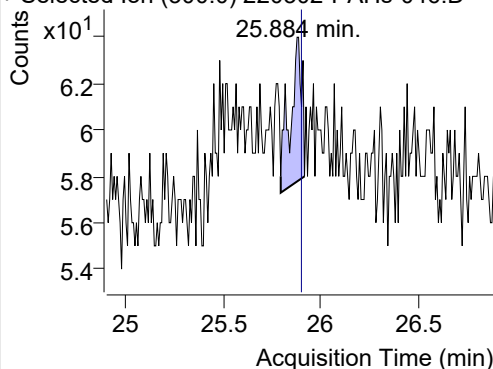


+ SIM (23.219-23.295 min, 11 scans) (**) 2203

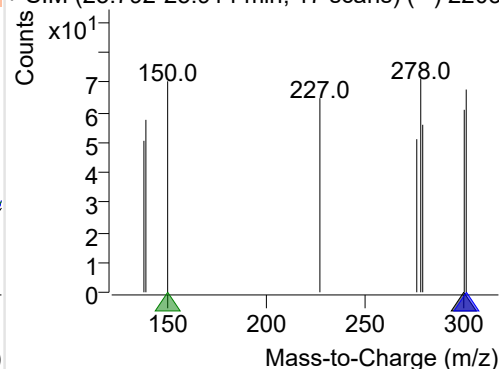
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-046.D

300.0, 301.0, 150.0



+ SIM (25.792-25.914 min, 17 scans) (**) 2203



Quantitative Analysis Sample Based Report

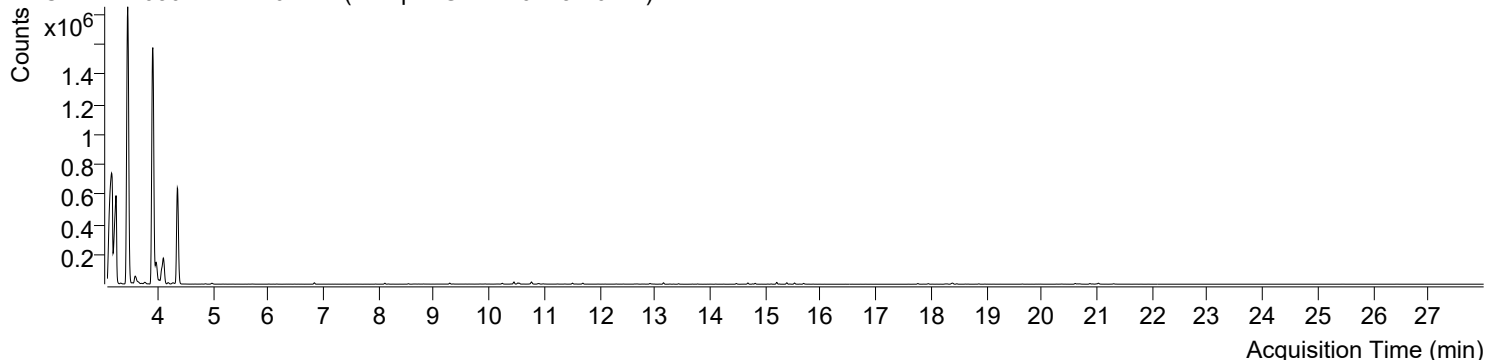


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 9:40:57	Data File	220302-PAHs-047.D
Type	Sample	Name	Sample-Gas-220223-10DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

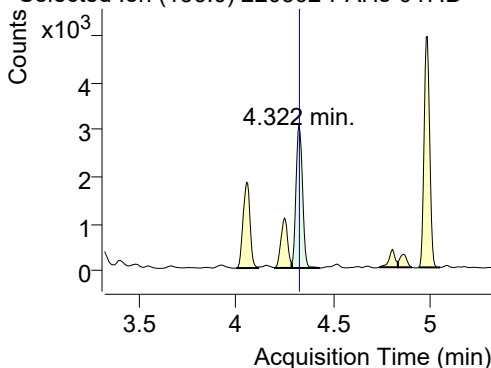
+ TIC SIM 220302-PAHs-047.D (Sample-Gas-220223-10DIL)



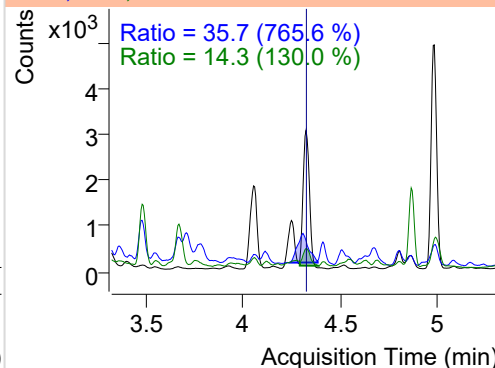
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.322	136.0	7095	3040.00	ND ng/ml	14.3
Naphthalene	4.354	128.0	1204783	518054.14	ND ng/ml	12.8
Acenaphthylene	7.739	152.0	170	121.24	ND ng/ml	
IS-D10-Acenaphthene	8.112	164.0	4585	3047.15	ND ng/ml	91.4
Acenaphthene	8.177	154.0	578	386.42	ND ng/ml	113.4
LSS-D10-Fluorene	9.282	176.0	4668	2937.67	ND ng/ml	87.3
Fluorene	9.345	166.0	710	455.92	ND ng/ml	107.1
IS-D10-Phenanthrene	11.508	188.0	7893	5243.27	ND ng/ml	15.5
Phenanthrene	11.560	178.0	635	407.32	ND ng/ml	17.2
Anthracene	11.697	178.0	2765	1718.38	ND ng/ml	24.5
Fluoranthene	14.359	202.0	175	78.29	ND ng/ml	
LSS-D10-Pyrene	14.814	212.0	6833	4393.19	ND ng/ml	17.4
Pyrene	14.852	202.0	220	121.29	ND ng/ml	
Benz(a)anthracene	17.726	228.0	47	16.67	ND ng/ml	
IS-D12-Chrysene	17.758	240.0	6165	3381.42	ND ng/ml	18.4
Chrysene	17.726	228.0	47	16.67	ND ng/ml	
Benzo(b)fluoranthene	20.068	252.0	205	81.44	ND ng/ml	
Benzo(k)fluoranthene	20.068	252.0	205	81.44	ND ng/ml	
SS-D12-Benzo(e)pyrene	20.605	264.0	6405	3256.67	ND ng/ml	27.2
Benzo(e)pyrene	20.654	252.0	3664	1364.81	ND ng/ml	18.3
Benzo(a)pyrene	20.654	252.0	3664	1364.81	ND ng/ml	18.3
IS-D12-Perylene	20.871	264.0	5359	2780.76	ND ng/ml	22.2
Perylene	20.925	252.0	369	151.20	ND ng/ml	13.8
Indeno(1,2,3-c,d)pyrene	22.845	276.0	32	6.60	ND ng/ml	6.8
Dibenz(a,h)anthracene	22.906	278.0	40	8.93	ND ng/ml	
Benzo(g,h,i)perylene	23.249	276.0	23	7.76	ND ng/ml	8.5
Coronene		300.0			ND ng/ml	

IS-D8-Naphthalene

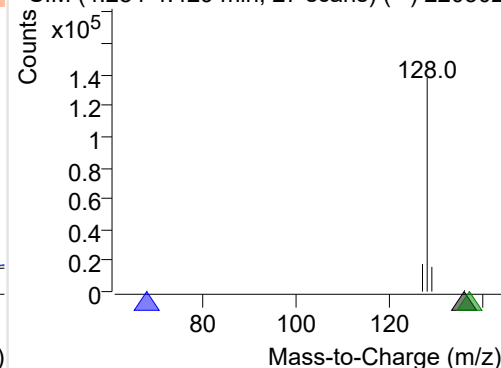
+ Selected Ion (136.0) 220302-PAHs-047.D



136.0, 68.0, 137.0

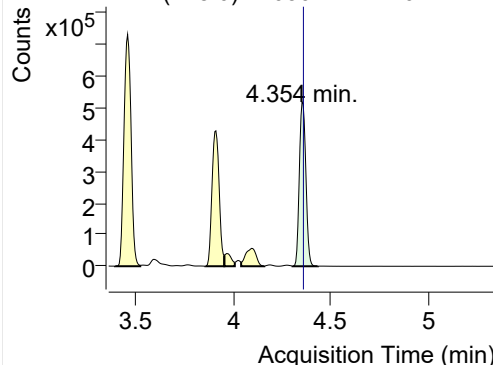


+ SIM (4.284-4.429 min, 27 scans) (**) 220302

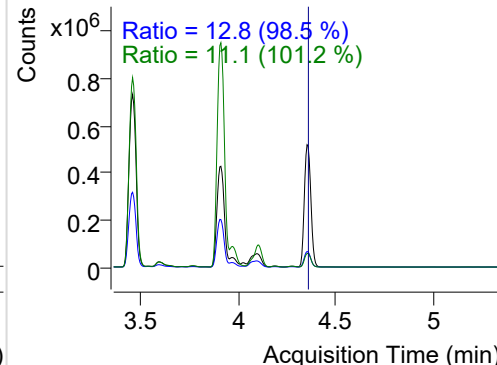


Naphthalene

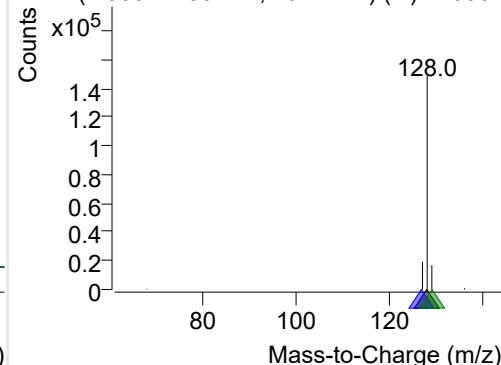
+ Selected Ion (128.0) 220302-PAHs-047.D



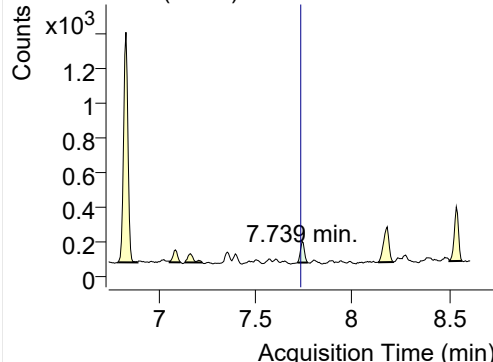
128.0, 127.0, 129.0



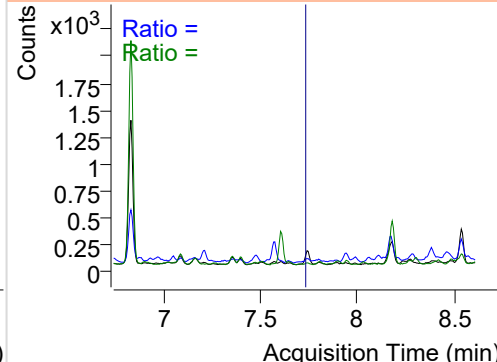
+ SIM (4.305-4.435 min, 25 scans) (**) 220302

**Acenaphthylene**

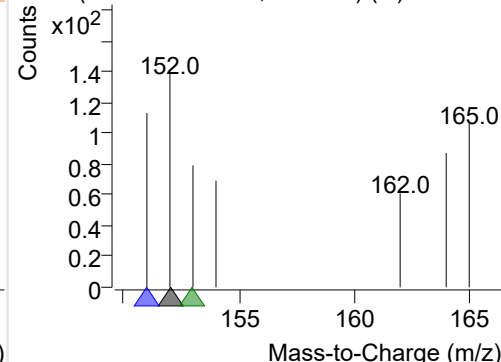
+ Selected Ion (152.0) 220302-PAHs-047.D



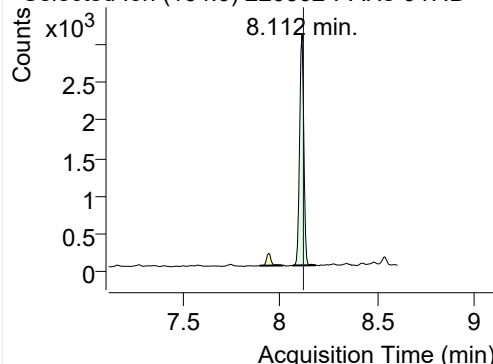
152.0, 151.0, 153.0



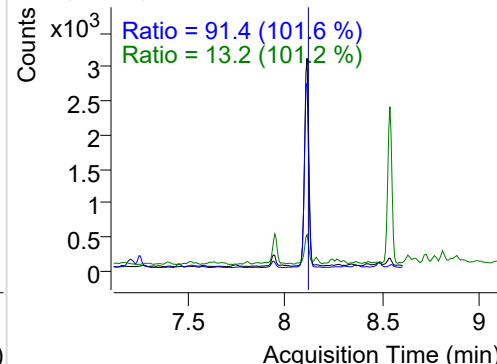
+ SIM (7.716-7.768 min, 8 scans) (**) 220302-I

**IS-D10-Acenaphthene**

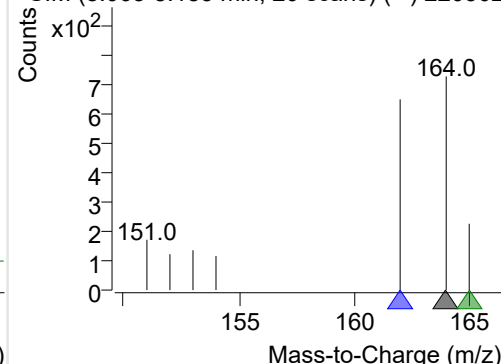
+ Selected Ion (164.0) 220302-PAHs-047.D



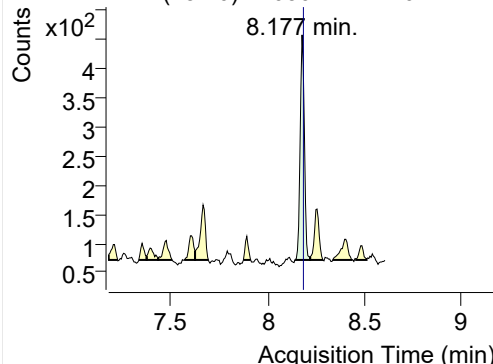
164.0, 162.0, 165.0



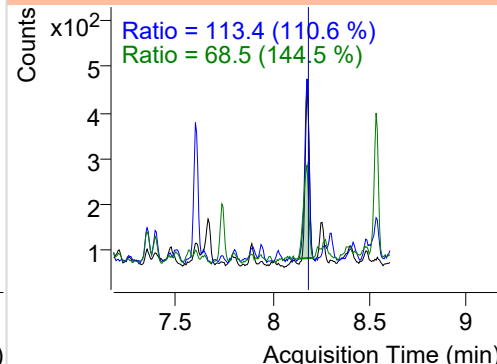
+ SIM (8.065-8.183 min, 20 scans) (**) 220302

**Acenaphthene**

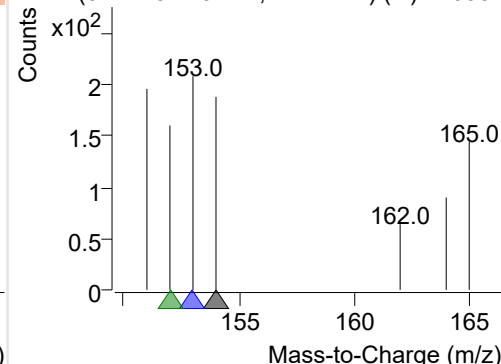
+ Selected Ion (154.0) 220302-PAHs-047.D



154.0, 153.0, 152.0

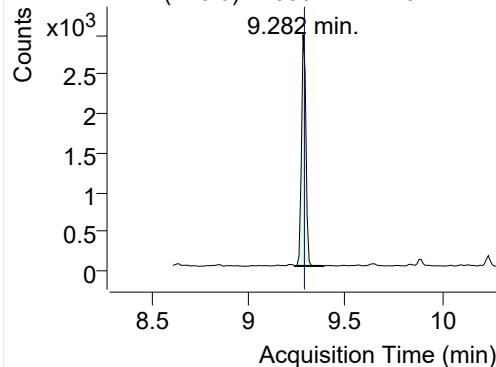


+ SIM (8.142-8.219 min, 14 scans) (**) 220302

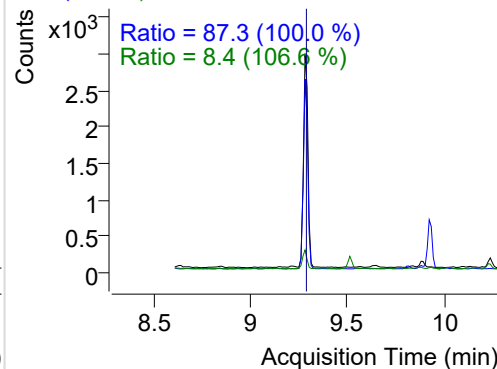


LSS-D10-Fluorene

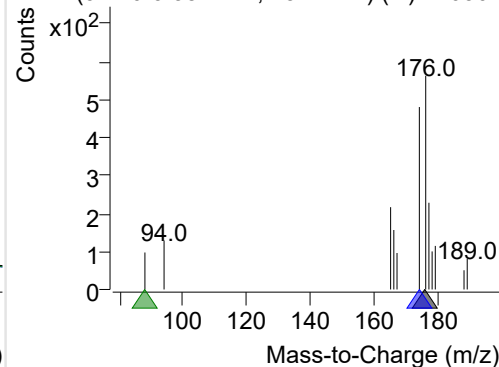
+ Selected Ion (176.0) 220302-PAHs-047.D



176.0, 174.0, 88.0

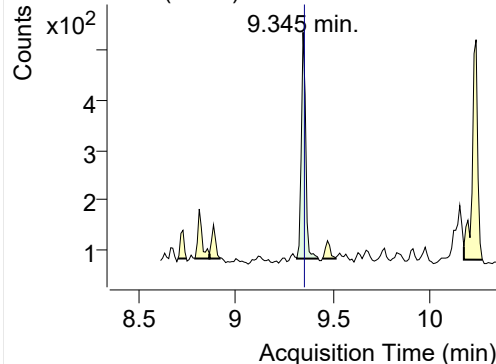


+ SIM (9.240-9.387 min, 15 scans) (**) 220302

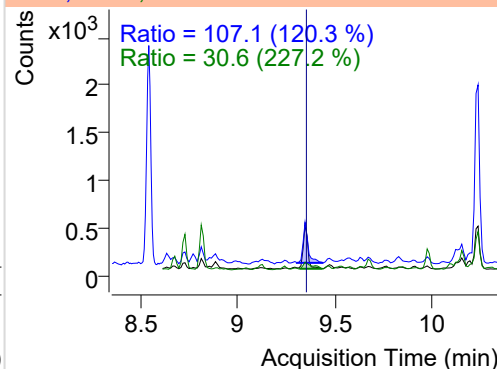


Fluorene

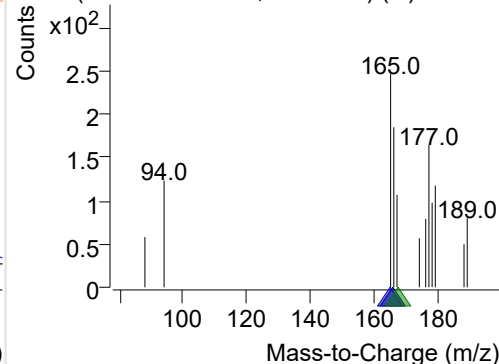
+ Selected Ion (166.0) 220302-PAHs-047.D



166.0, 165.0, 167.0

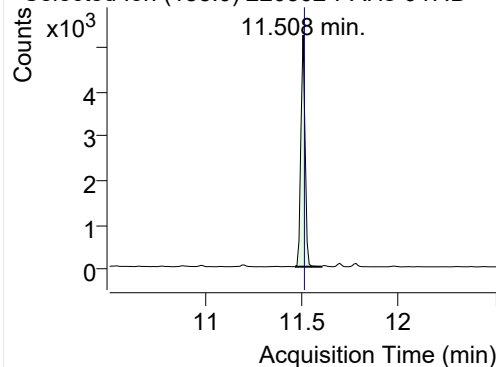


+ SIM (9.313-9.423 min, 11 scans) (**) 220302

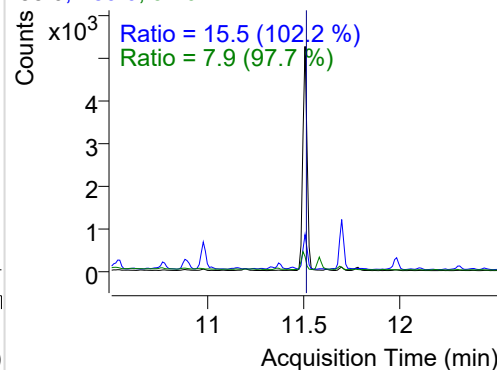


IS-D10-Phenanthrene

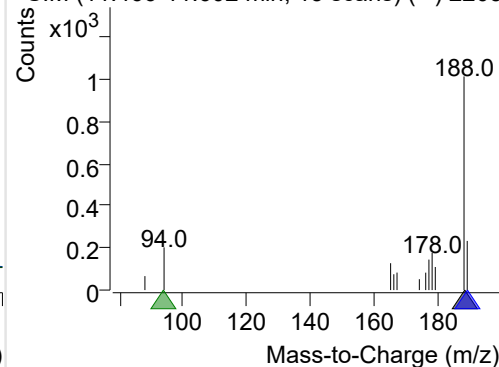
+ Selected Ion (188.0) 220302-PAHs-047.D



188.0, 189.0, 94.0

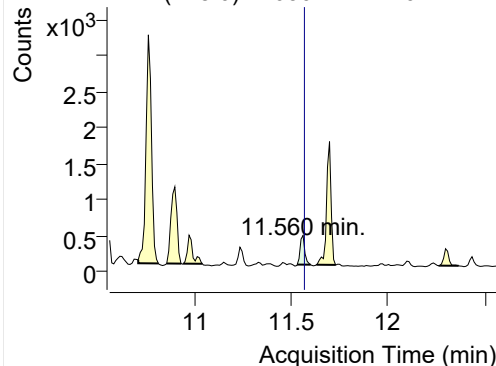


+ SIM (11.466-11.602 min, 13 scans) (**) 2203

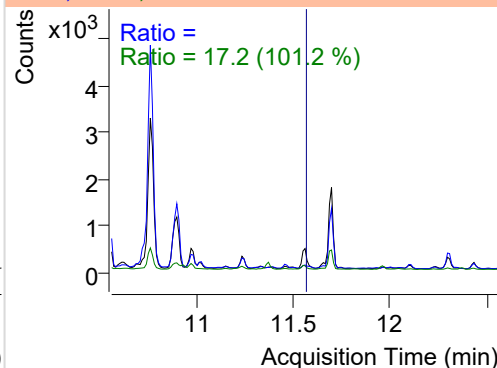


Phenanthrene

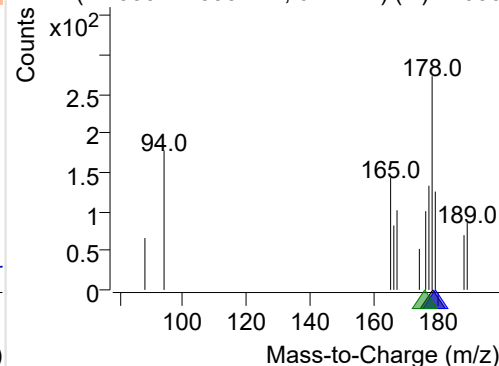
+ Selected Ion (178.0) 220302-PAHs-047.D



178.0, 179.0, 176.0

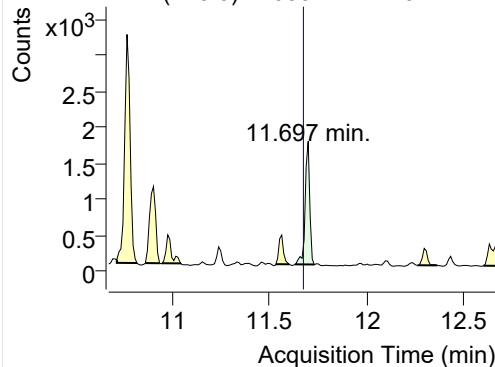


+ SIM (11.530-11.599 min, 6 scans) (**) 22030

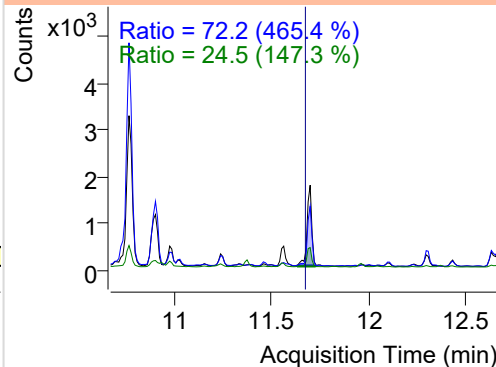


Anthracene

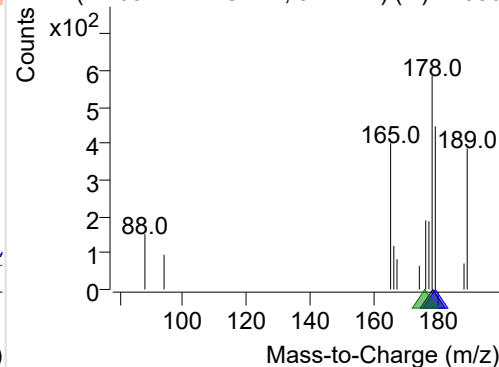
+ Selected Ion (178.0) 220302-PAHs-047.D



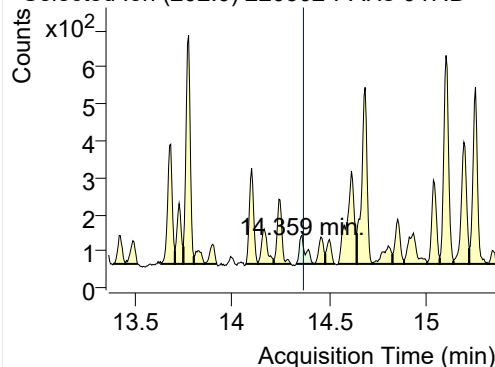
178.0, 179.0, 176.0



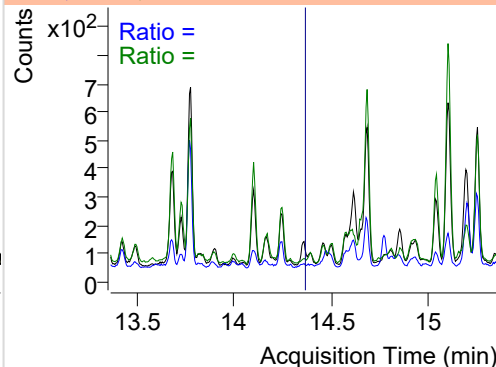
+ SIM (11.634-11.728 min, 9 scans) (**) 22030

**Fluoranthene**

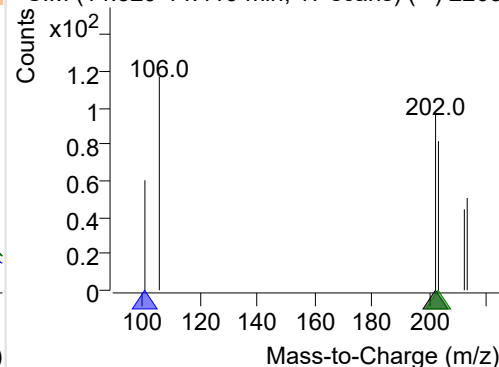
+ Selected Ion (202.0) 220302-PAHs-047.D



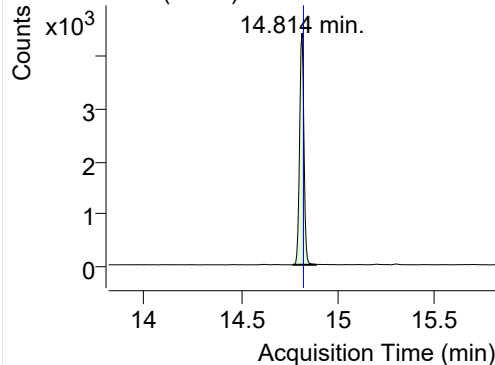
202.0, 101.0, 203.0



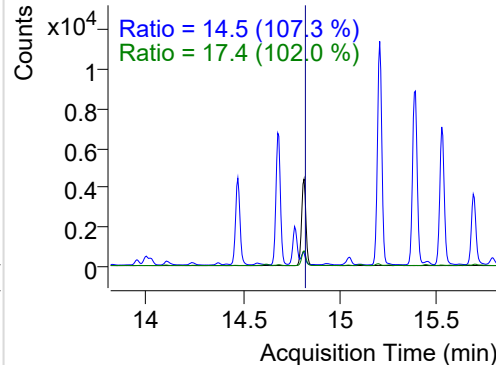
+ SIM (14.329-14.419 min, 17 scans) (**) 2203

**LSS-D10-Pyrene**

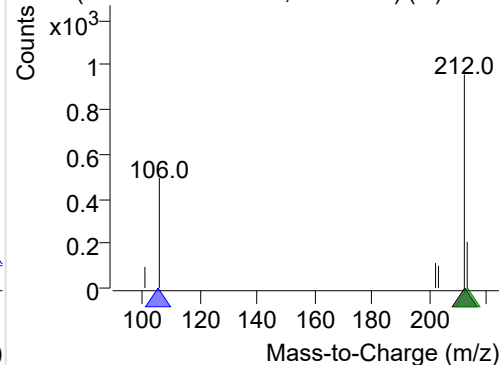
+ Selected Ion (212.0) 220302-PAHs-047.D



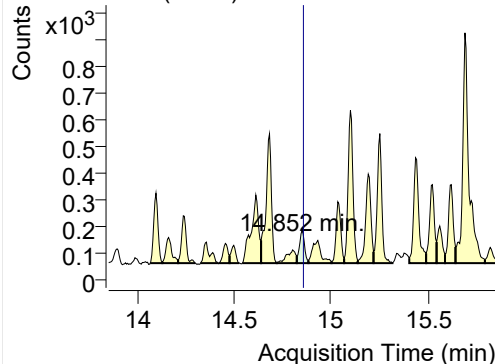
212.0, 106.0, 213.0



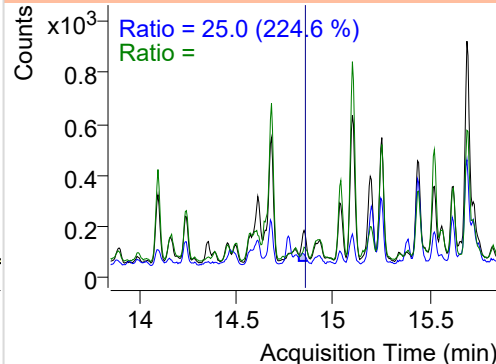
+ SIM (14.766-14.885 min, 23 scans) (**) 2203

**Pyrene**

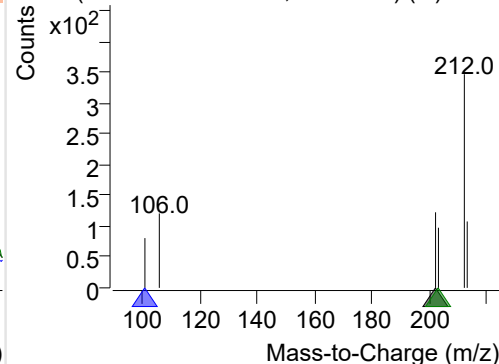
+ Selected Ion (202.0) 220302-PAHs-047.D



202.0, 101.0, 203.0



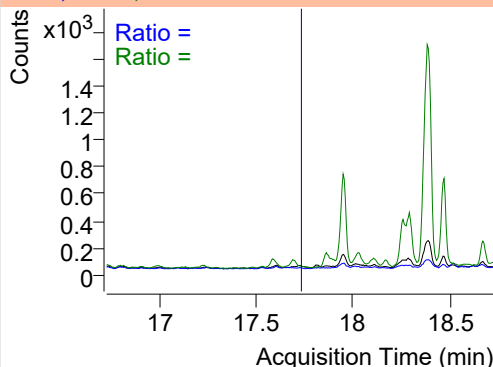
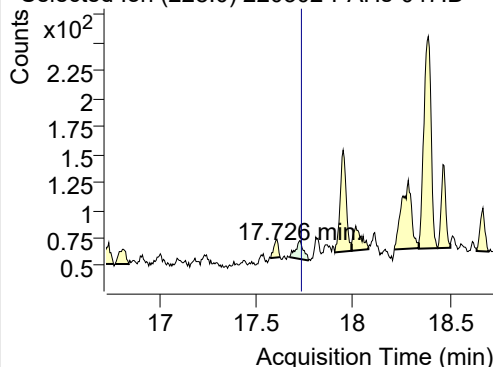
+ SIM (14.825-14.885 min, 12 scans) (**) 2203



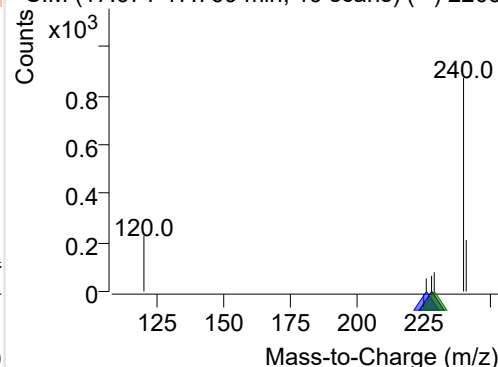
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-047.D

228.0, 226.0, 229.0

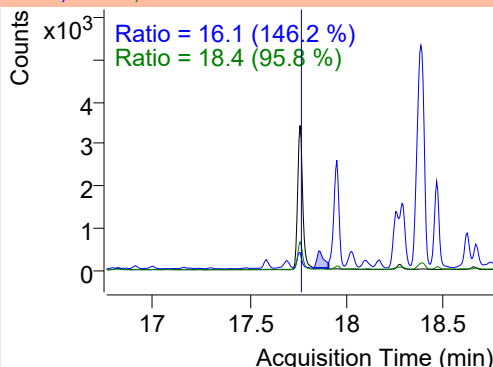
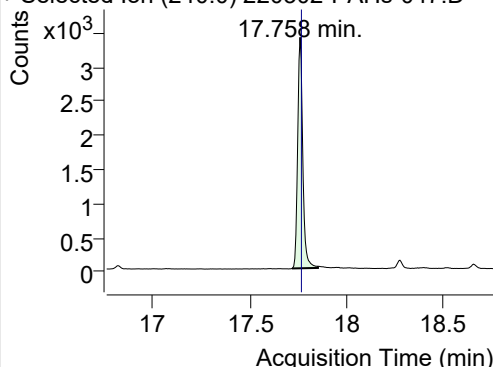


+ SIM (17.671-17.769 min, 19 scans) (**) 2203

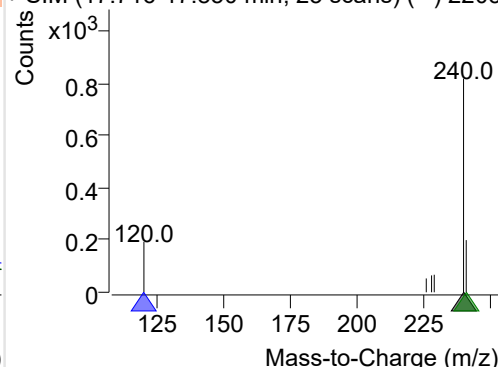
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-047.D

240.0, 120.0, 241.0

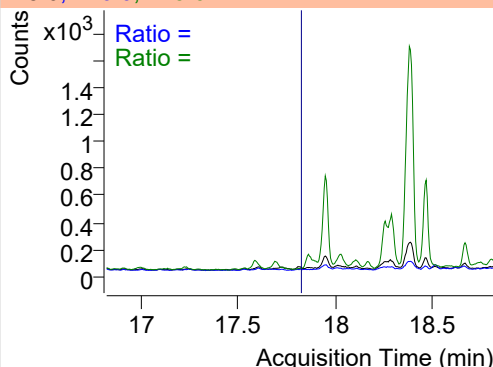
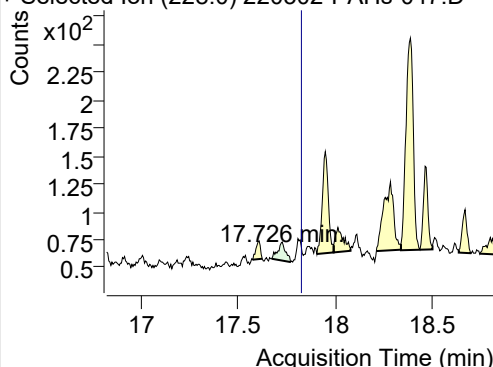


+ SIM (17.716-17.850 min, 25 scans) (**) 2203

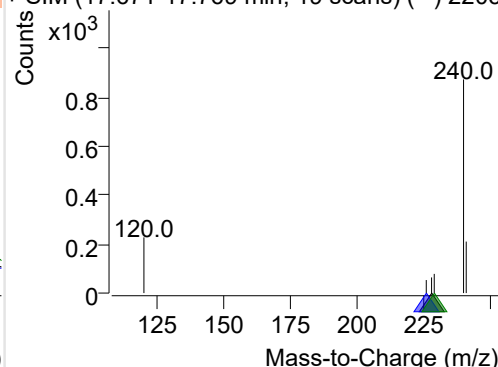
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-047.D

228.0, 226.0, 229.0

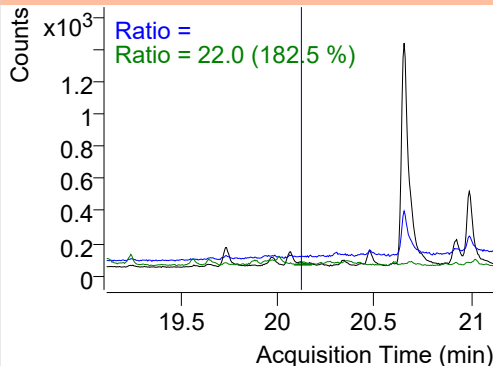
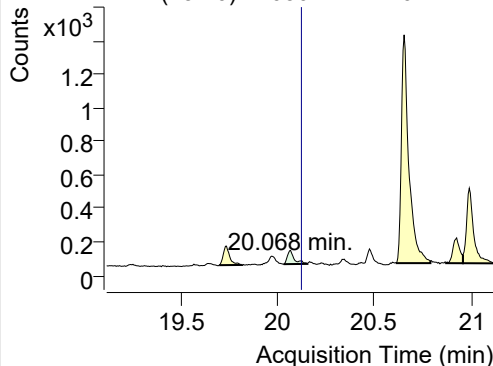


+ SIM (17.671-17.769 min, 19 scans) (**) 2203

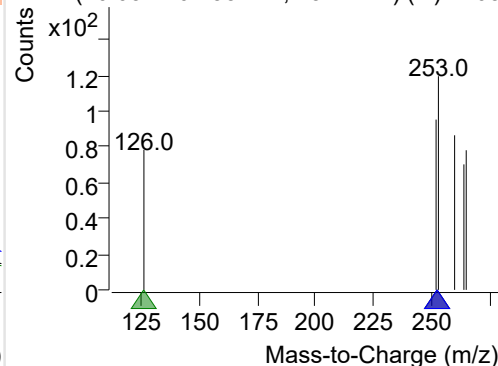
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-047.D

252.0, 253.0, 126.0



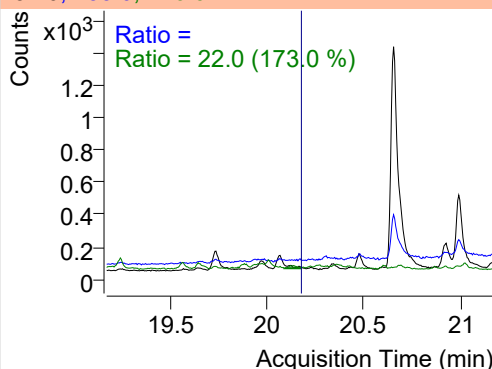
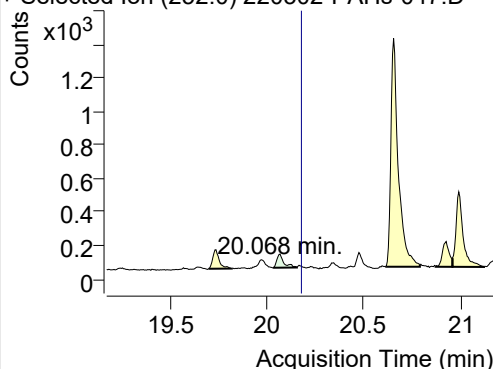
+ SIM (20.032-20.155 min, 23 scans) (**) 2203



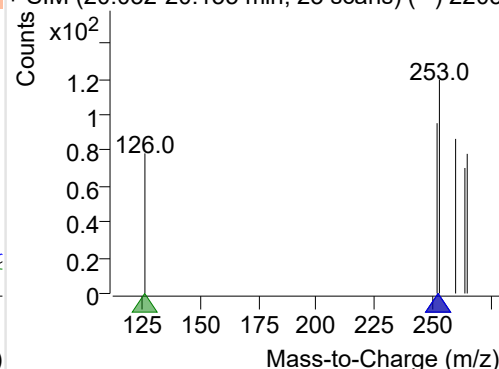
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-047.D

252.0, 253.0, 126.0

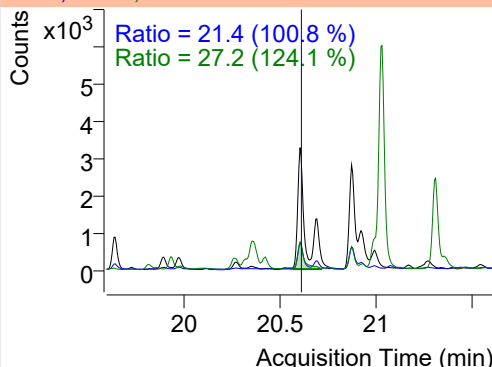
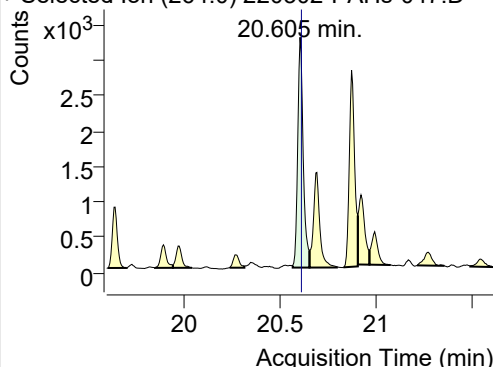


+ SIM (20.032-20.155 min, 23 scans) (**) 2203

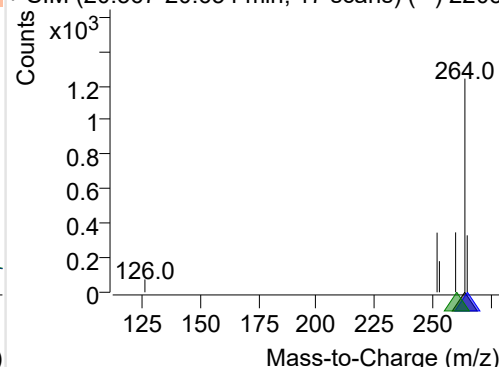
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-047.D

264.0, 265.0, 260.0

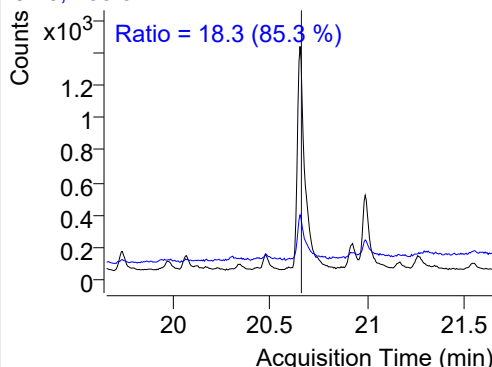
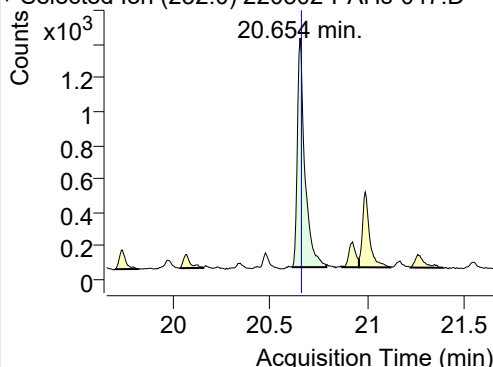


+ SIM (20.567-20.654 min, 17 scans) (**) 2203

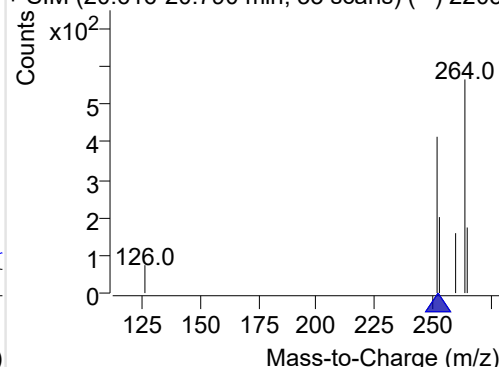
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-047.D

252.0, 253.0

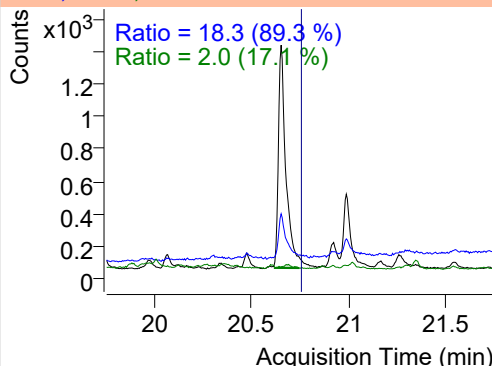
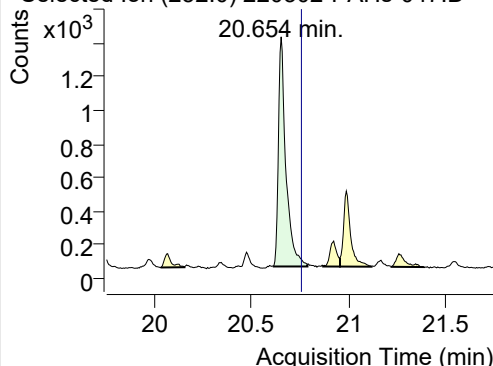


+ SIM (20.616-20.790 min, 33 scans) (**) 2203

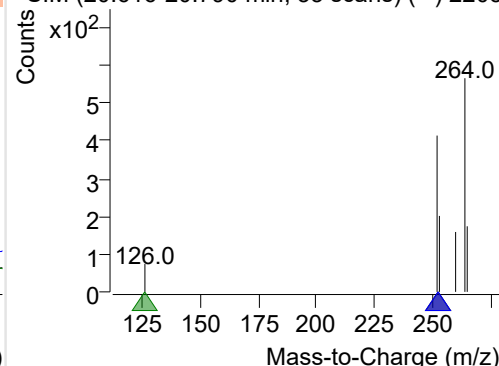
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-047.D

252.0, 253.0, 126.0

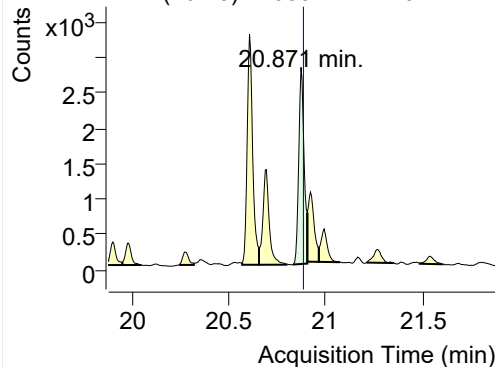


+ SIM (20.616-20.790 min, 33 scans) (**) 2203

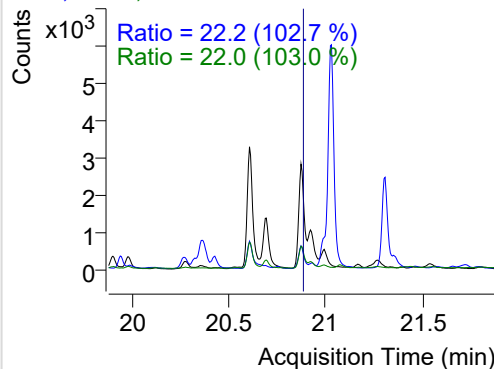


IS-D12-Perylene

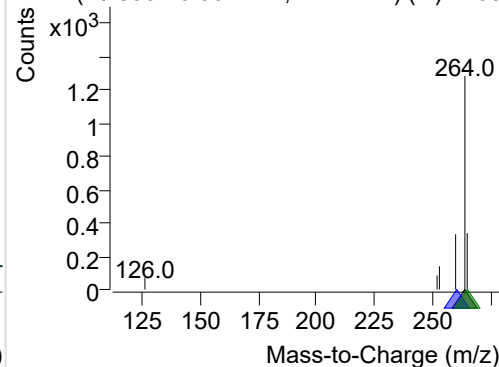
+ Selected Ion (264.0) 220302-PAHs-047.D



264.0, 260.0, 265.0

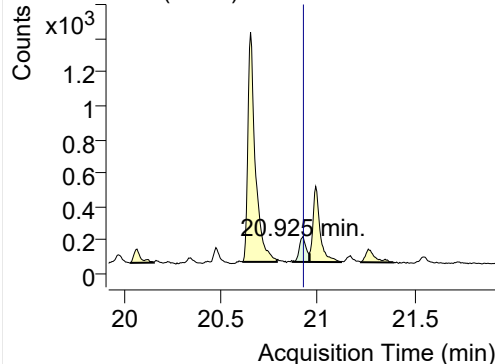


+ SIM (20.830-20.904 min, 14 scans) (**) 2203

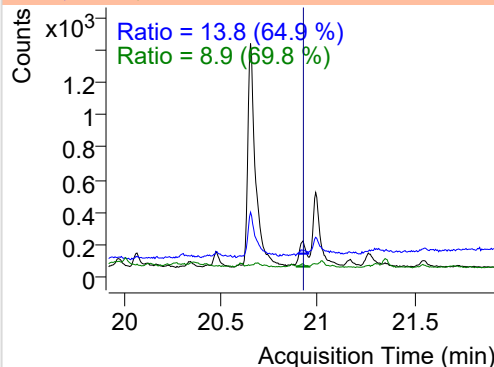


Perylene

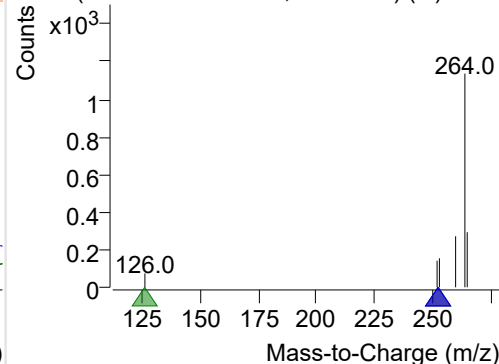
+ Selected Ion (252.0) 220302-PAHs-047.D



252.0, 253.0, 126.0

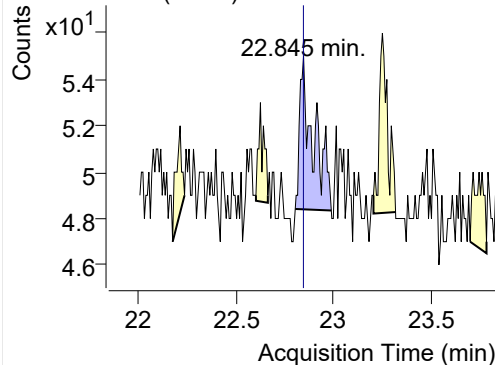


+ SIM (20.871-20.958 min, 17 scans) (**) 2203

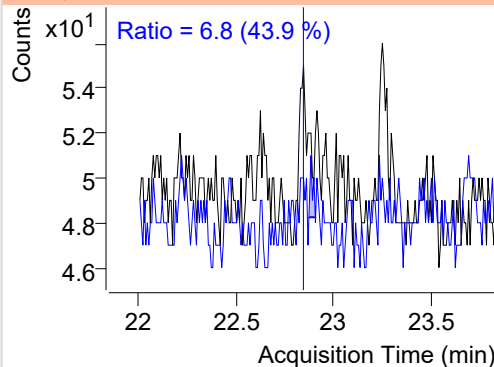


Indeno(1,2,3-c,d)pyrene

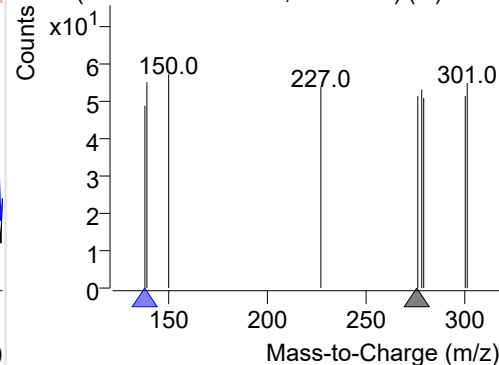
+ Selected Ion (276.0) 220302-PAHs-047.D



276.0, 138.0

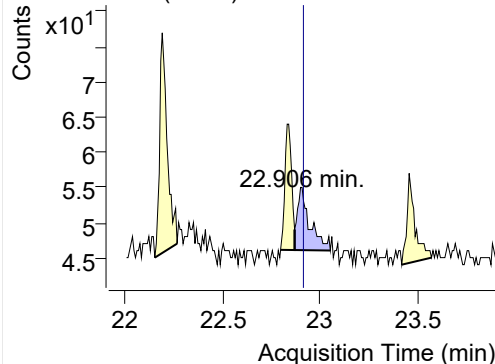


+ SIM (22.802-22.987 min, 24 scans) (**) 2203

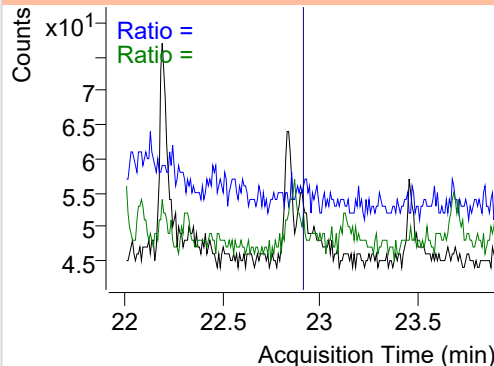


Dibenz(a,h)anthracene

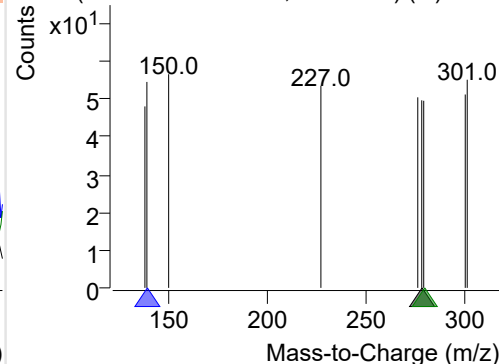
+ Selected Ion (278.0) 220302-PAHs-047.D



278.0, 139.0, 279.0



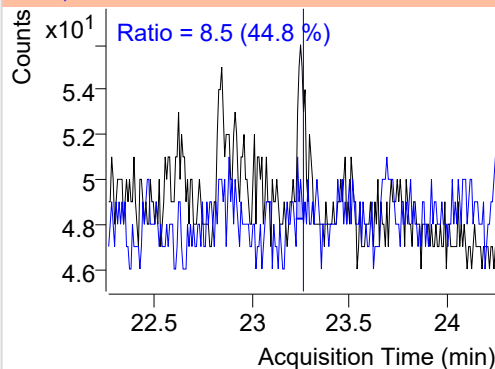
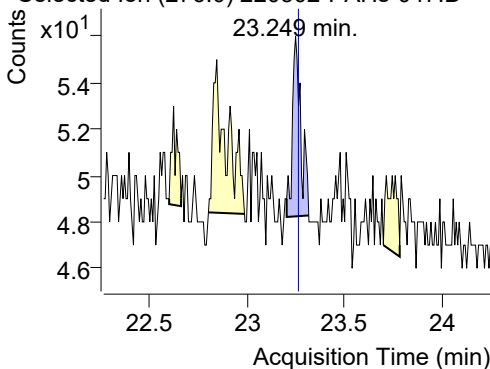
+ SIM (22.868-23.051 min, 24 scans) (**) 2203



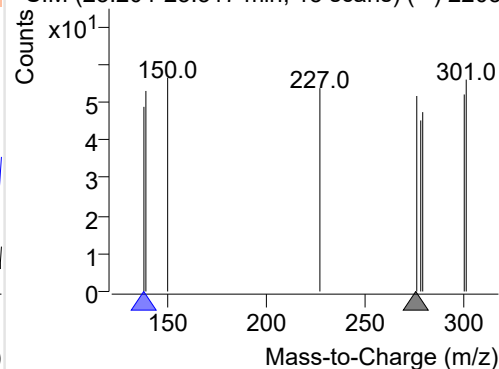
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-047.D

276.0, 138.0

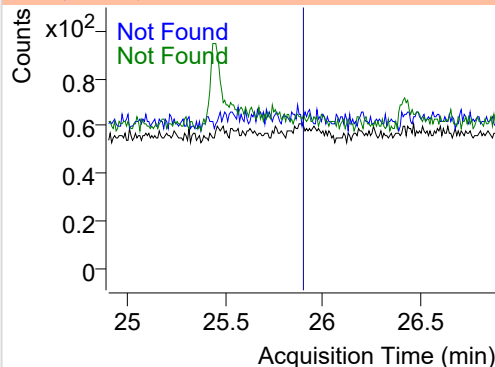
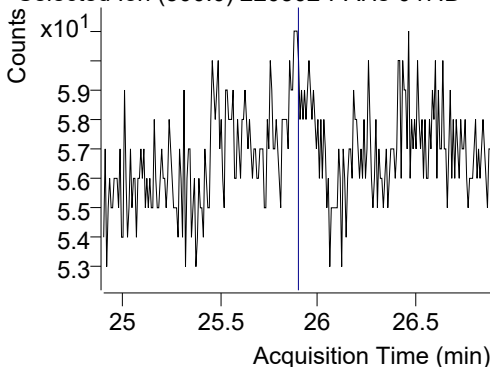


+ SIM (23.204-23.317 min, 15 scans) (**) 2203

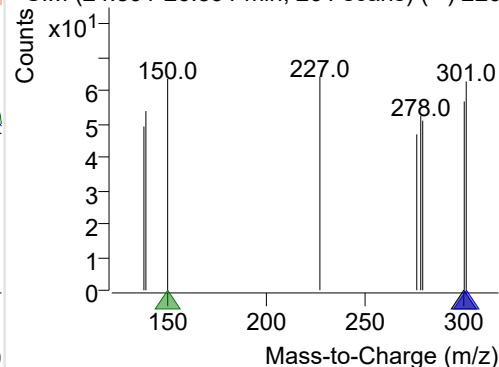
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-047.D

300.0, 301.0, 150.0



+ SIM (24.891-26.891 min, 261 scans) (**) 220



Quantitative Analysis Sample Based Report

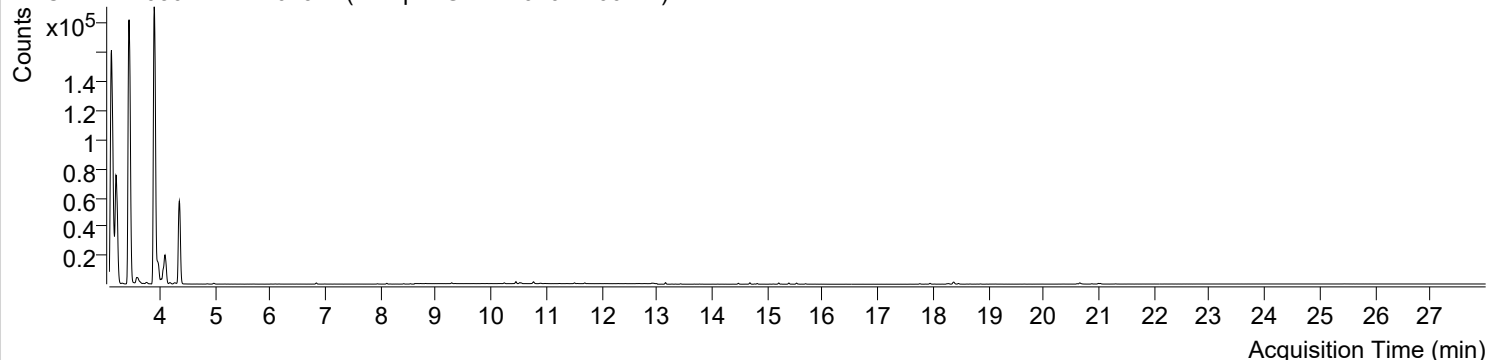


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 10:43:16	Data File	220302-PAHs-049.D
Type	Sample	Name	Sample-Gas-220204-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

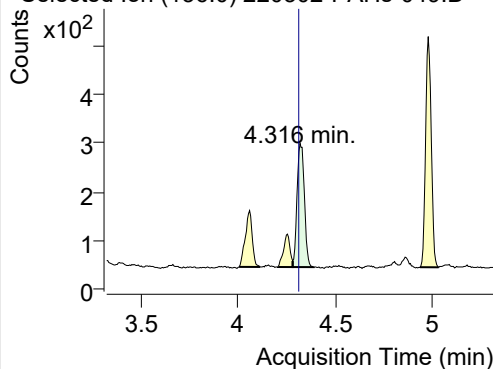
+ TIC SIM 220302-PAHs-049.D (Sample-Gas-220204-100DIL)



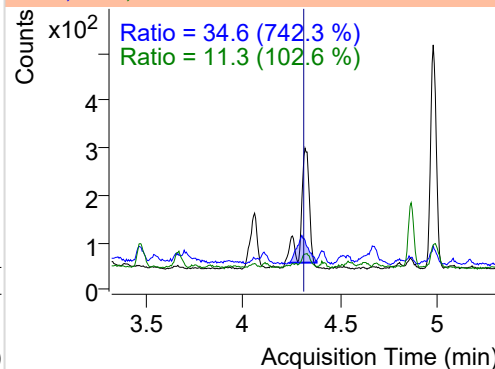
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.316	136.0	661	252.26	ND ng/ml	11.3
Naphthalene	4.354	128.0	119422	46195.11	ND ng/ml	12.8
Acenaphthylene	7.745	152.0	15	10.76	ND ng/ml	28.5
IS-D10-Acenaphthene	8.112	164.0	395	251.97	ND ng/ml	93.4
Acenaphthene	8.177	154.0	27	18.45	ND ng/ml	124.4
LSS-D10-Fluorene	9.281	176.0	392	259.81	ND ng/ml	86.2
Fluorene	9.344	166.0	78	51.06	ND ng/ml	100.4
IS-D10-Phenanthrene	11.508	188.0	654	431.12	ND ng/ml	15.4
Phenanthrene	11.560	178.0	125	79.96	ND ng/ml	13.5
Anthracene	11.697	178.0	234	134.96	ND ng/ml	26.0
Fluoranthene	14.392	202.0	19	8.59	ND ng/ml	47.6
LSS-D10-Pyrene	14.814	212.0	546	347.51	ND ng/ml	17.0
Pyrene	14.890	202.0	27	11.59	ND ng/ml	78.9
Benz(a)anthracene	17.942	228.0	40	17.10	ND ng/ml	23.9
IS-D12-Chrysene	17.758	240.0	456	240.48	ND ng/ml	17.7
Chrysene	17.942	228.0	40	17.10	ND ng/ml	23.9
Benzo(b)fluoranthene	20.654	252.0	1494	653.90	ND ng/ml	19.5
Benzo(k)fluoranthene	20.654	252.0	1494	653.90	ND ng/ml	19.5
SS-D12-Benzo(e)pyrene	20.605	264.0	387	191.03	ND ng/ml	27.0
Benzo(e)pyrene	20.654	252.0	1494	653.90	ND ng/ml	19.5
Benzo(a)pyrene	20.654	252.0	1494	653.90	ND ng/ml	19.5
IS-D12-Perylene	20.871	264.0	293	148.03	ND ng/ml	18.4
Perylene	20.990	252.0	698	312.36	ND ng/ml	19.8
Indeno(1,2,3-c,d)pyrene		276.0			ND ng/ml	
Dibenz(a,h)anthracene	22.906	278.0	11	2.66	ND ng/ml	
Benzo(g,h,i)perylene		276.0			ND ng/ml	
Coronene		300.0			ND ng/ml	

IS-D8-Naphthalene

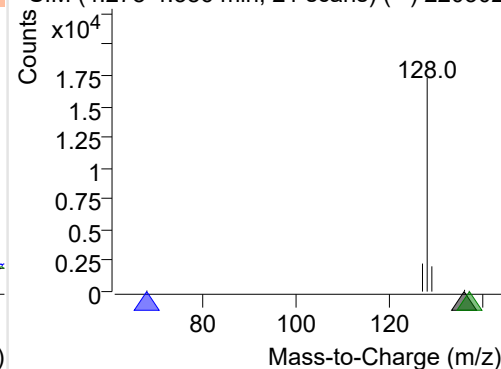
+ Selected Ion (136.0) 220302-PAHs-049.D



136.0, 68.0, 137.0

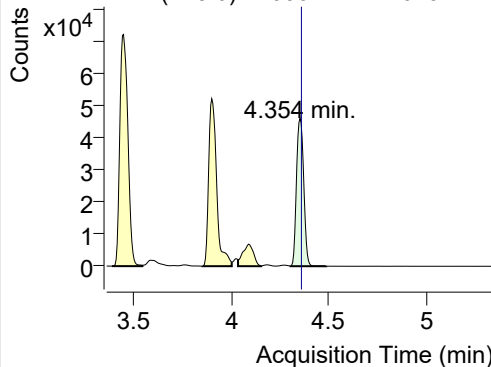


+ SIM (4.278-4.386 min, 21 scans) (**) 220302

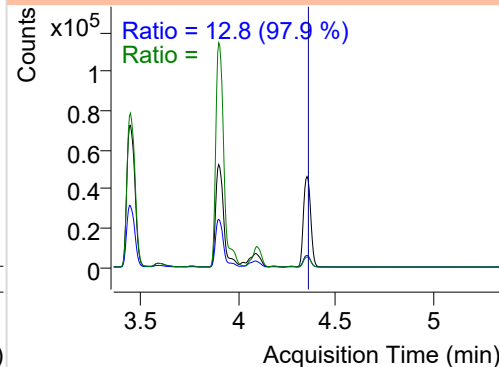


Naphthalene

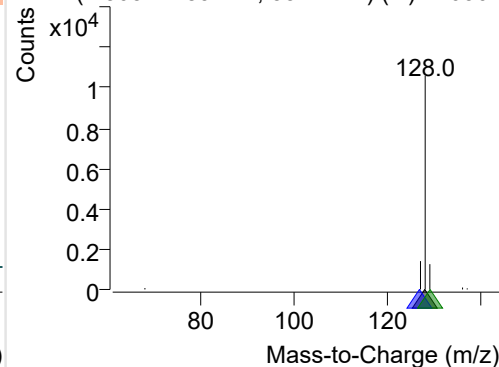
+ Selected Ion (128.0) 220302-PAHs-049.D



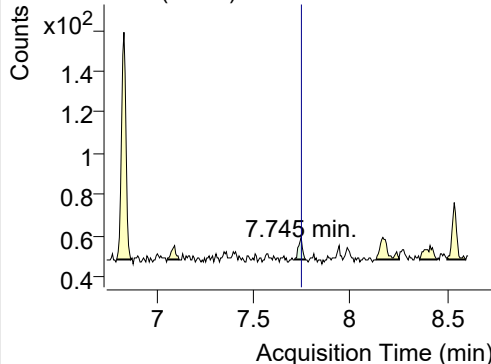
128.0, 127.0, 129.0



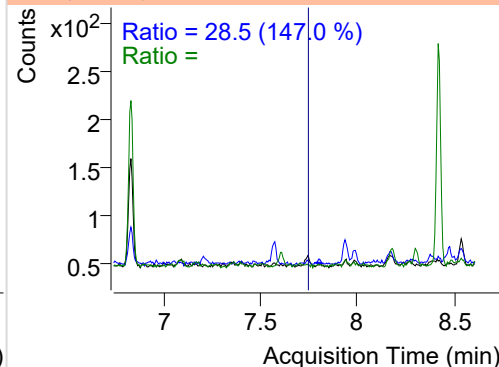
+ SIM (4.305-4.489 min, 35 scans) (**) 220302

**Acenaphthylene**

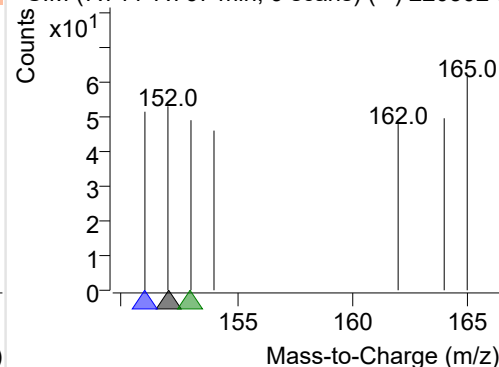
+ Selected Ion (152.0) 220302-PAHs-049.D



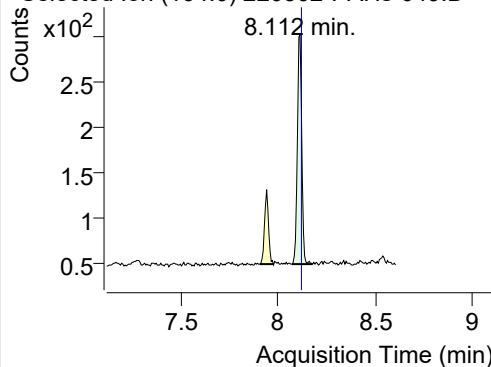
152.0, 151.0, 153.0



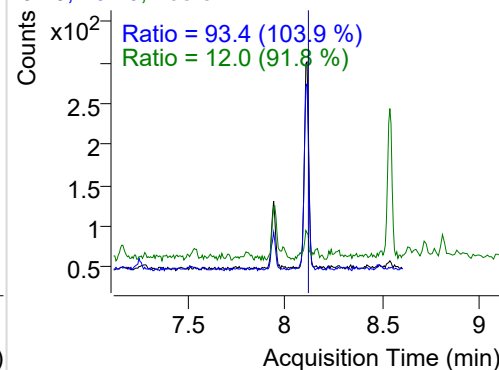
+ SIM (7.711-7.767 min, 9 scans) (**) 220302-I

**IS-D10-Acenaphthene**

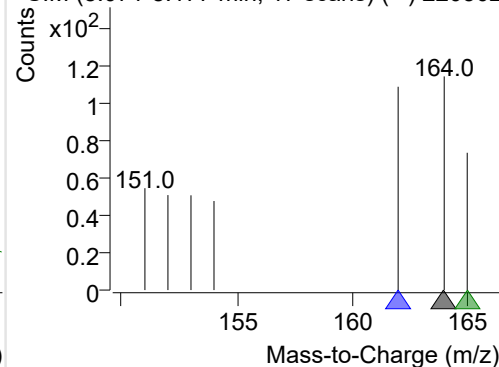
+ Selected Ion (164.0) 220302-PAHs-049.D



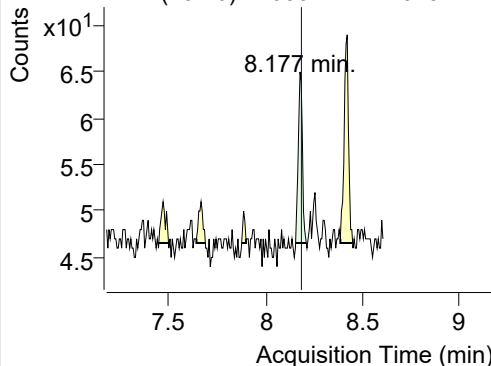
164.0, 162.0, 165.0



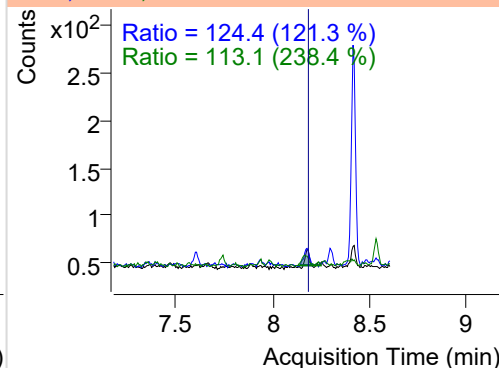
+ SIM (8.071-8.177 min, 17 scans) (**) 220302

**Acenaphthene**

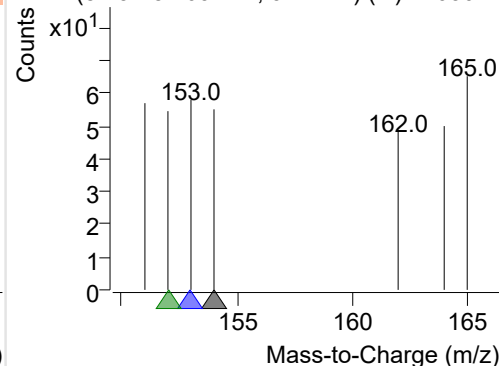
+ Selected Ion (154.0) 220302-PAHs-049.D



154.0, 153.0, 152.0

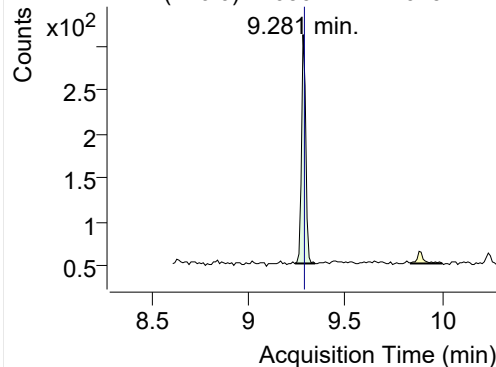


+ SIM (8.154-8.209 min, 9 scans) (**) 220302-I

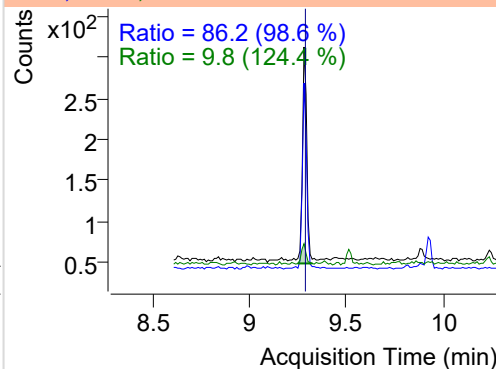


LSS-D10-Fluorene

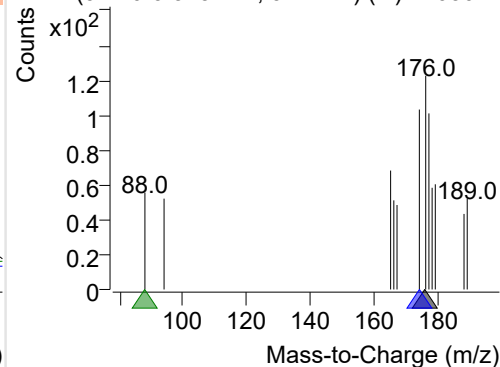
+ Selected Ion (176.0) 220302-PAHs-049.D



176.0, 174.0, 88.0

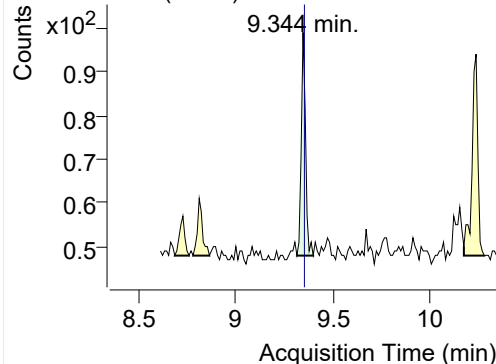


+ SIM (9.240-9.343 min, 9 scans) (**) 220302-I

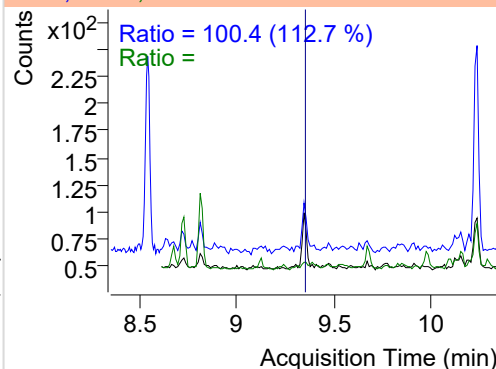


Fluorene

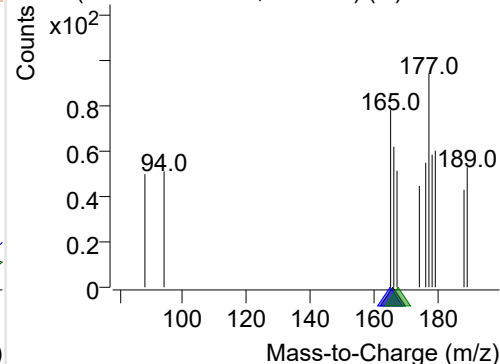
+ Selected Ion (166.0) 220302-PAHs-049.D



166.0, 165.0, 167.0

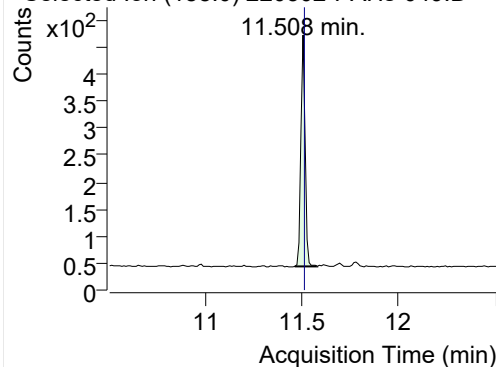


+ SIM (9.313-9.397 min, 9 scans) (**) 220302-I

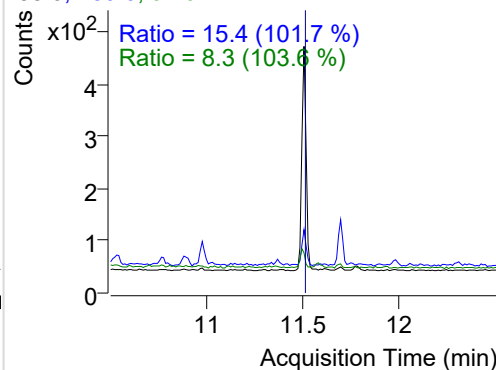


IS-D10-Phenanthrene

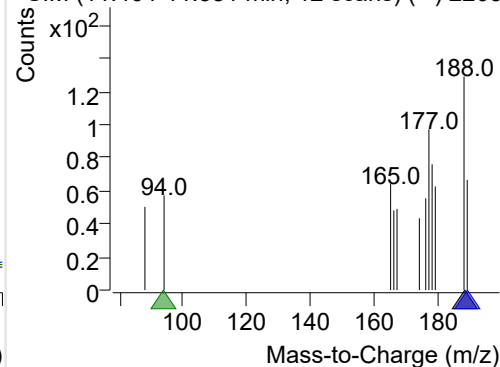
+ Selected Ion (188.0) 220302-PAHs-049.D



188.0, 189.0, 94.0

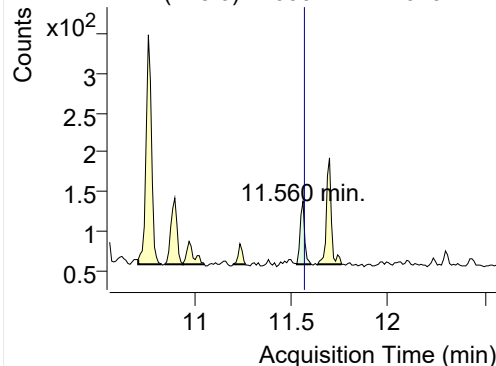


+ SIM (11.464-11.581 min, 12 scans) (**) 2203

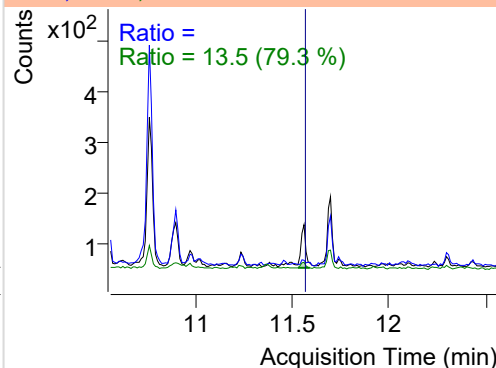


Phenanthrene

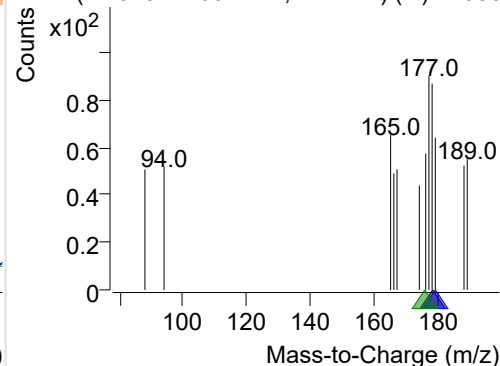
+ Selected Ion (178.0) 220302-PAHs-049.D



178.0, 179.0, 176.0

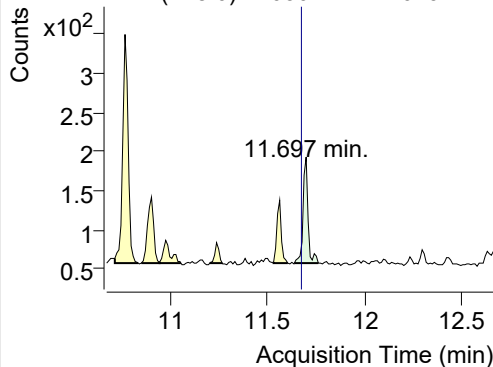


+ SIM (11.529-11.602 min, 7 scans) (**) 22030

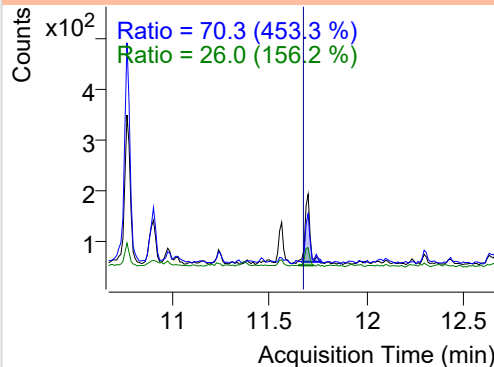


Anthracene

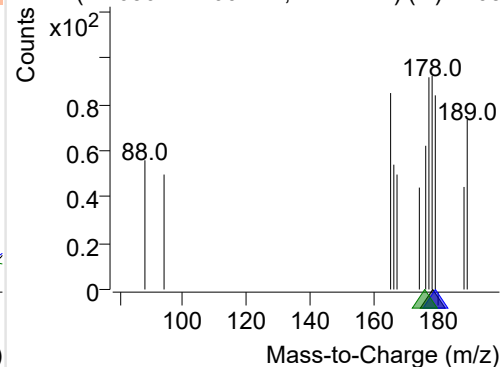
+ Selected Ion (178.0) 220302-PAHs-049.D



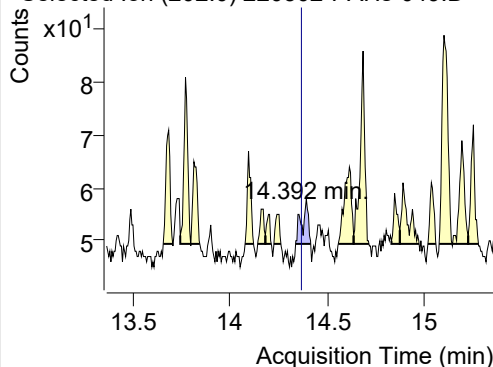
178.0, 179.0, 176.0



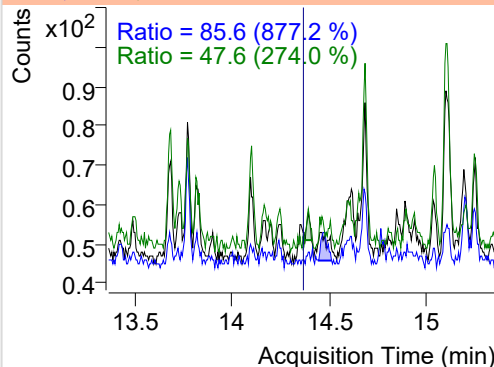
+ SIM (11.636-11.760 min, 11 scans) (**) 2203

**Fluoranthene**

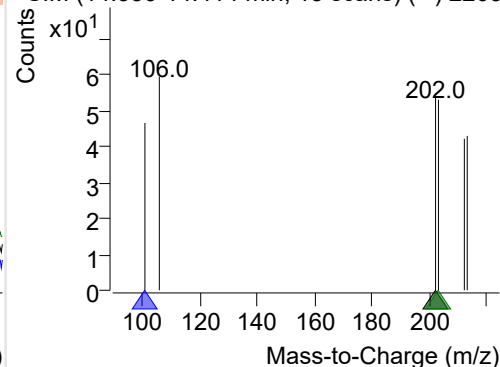
+ Selected Ion (202.0) 220302-PAHs-049.D



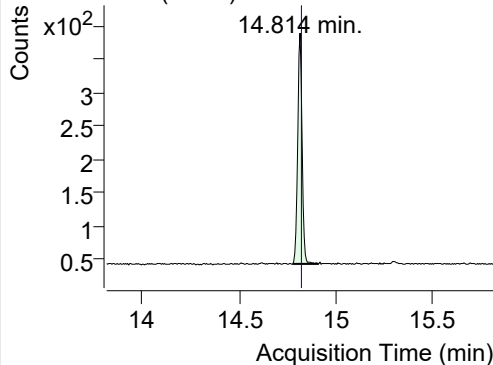
202.0, 101.0, 203.0



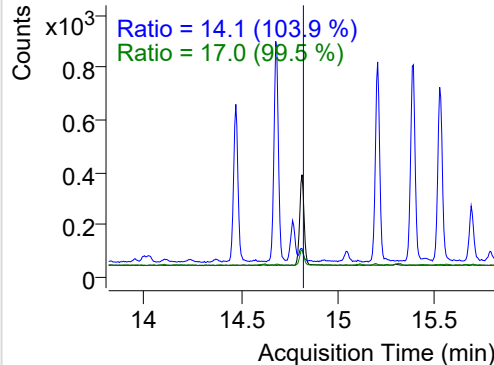
+ SIM (14.336-14.414 min, 15 scans) (**) 2203

**LSS-D10-Pyrene**

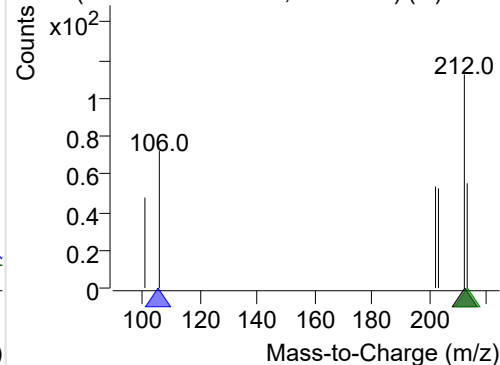
+ Selected Ion (212.0) 220302-PAHs-049.D



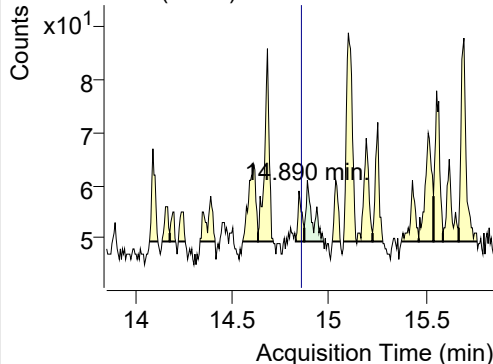
212.0, 106.0, 213.0



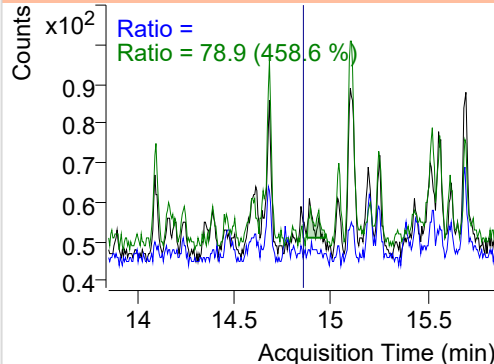
+ SIM (14.777-14.906 min, 24 scans) (**) 2203

**Pyrene**

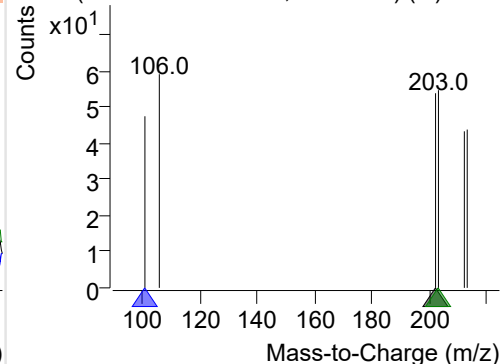
+ Selected Ion (202.0) 220302-PAHs-049.D



202.0, 101.0, 203.0



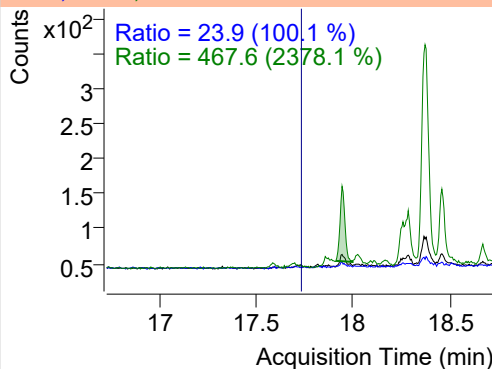
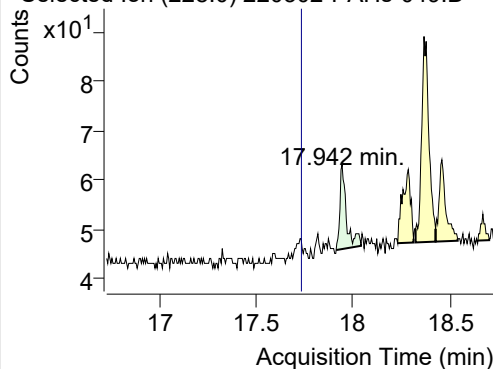
+ SIM (14.874-14.973 min, 19 scans) (**) 2203



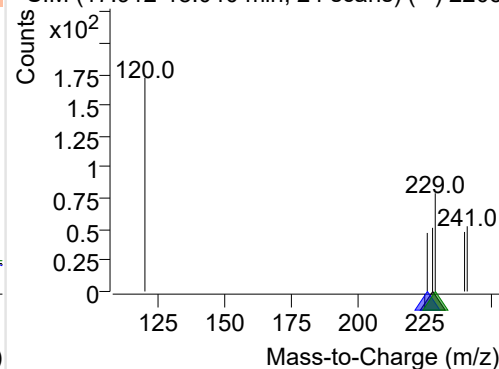
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-049.D

228.0, 226.0, 229.0

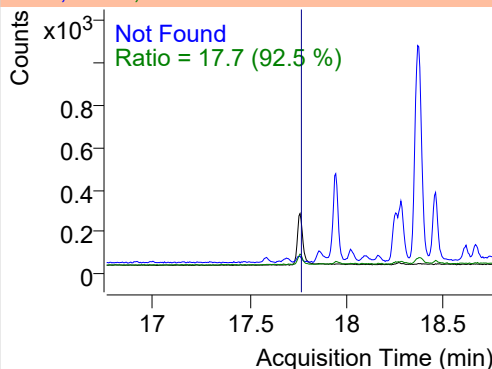
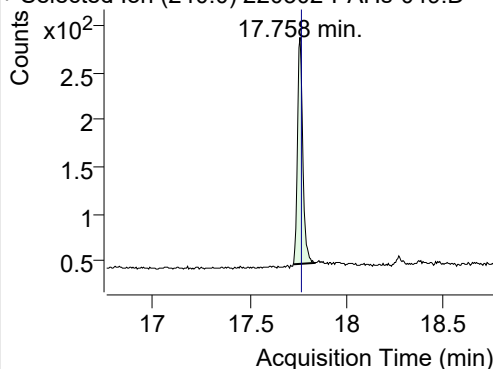


+ SIM (17.912-18.040 min, 24 scans) (**) 2203

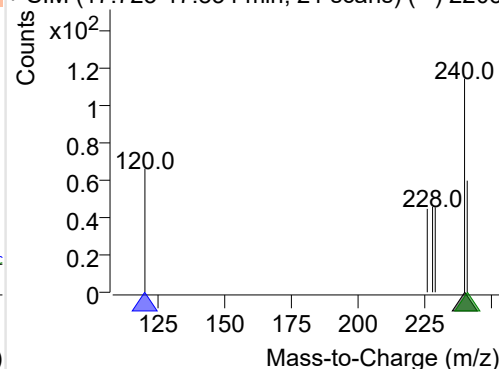
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-049.D

240.0, 120.0, 241.0

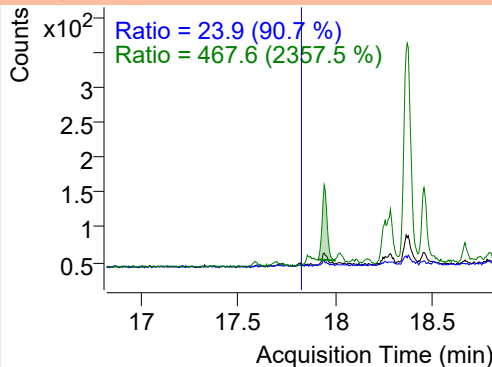
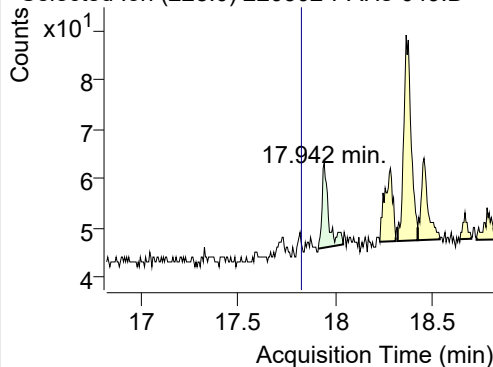


+ SIM (17.723-17.834 min, 21 scans) (**) 2203

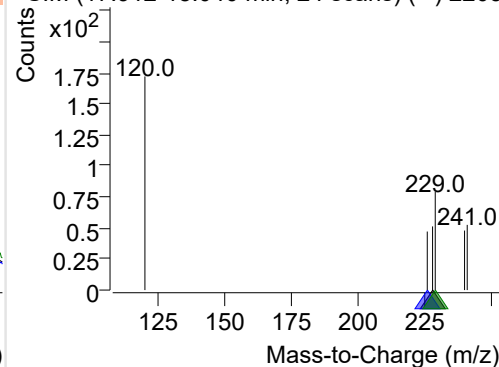
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-049.D

228.0, 226.0, 229.0

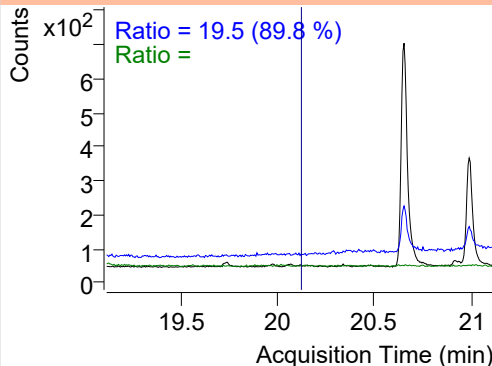
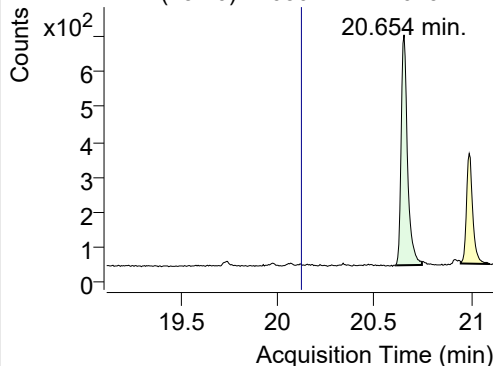


+ SIM (17.912-18.040 min, 24 scans) (**) 2203

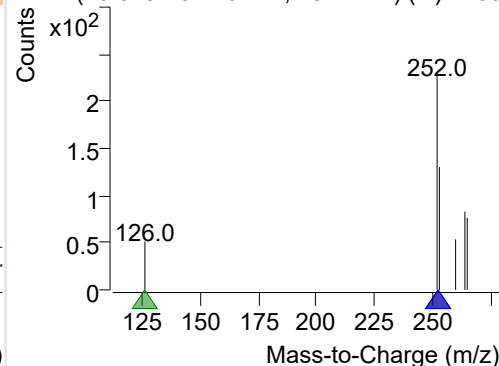
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-049.D

252.0, 253.0, 126.0



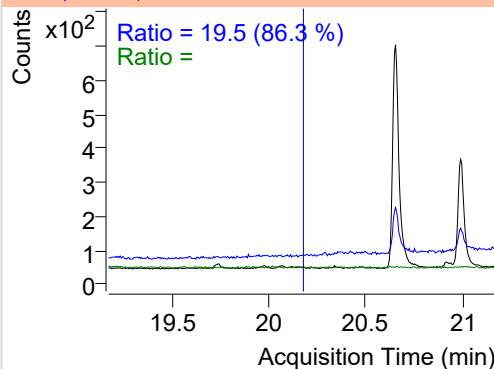
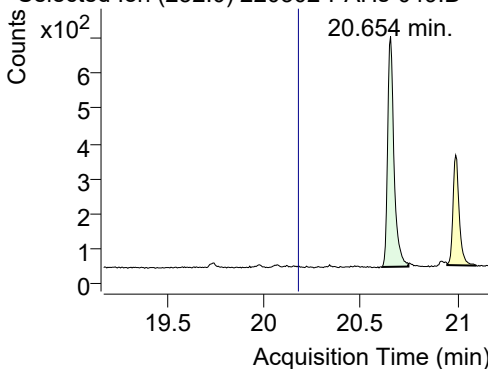
+ SIM (20.610-20.746 min, 26 scans) (**) 2203



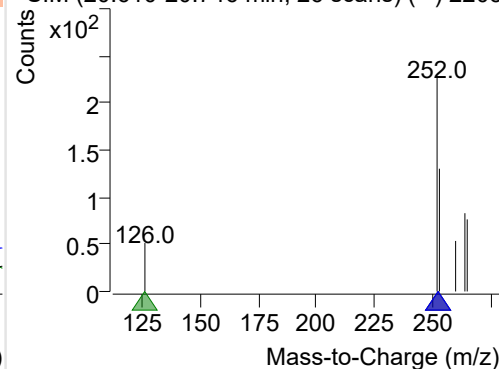
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-049.D

252.0, 253.0, 126.0

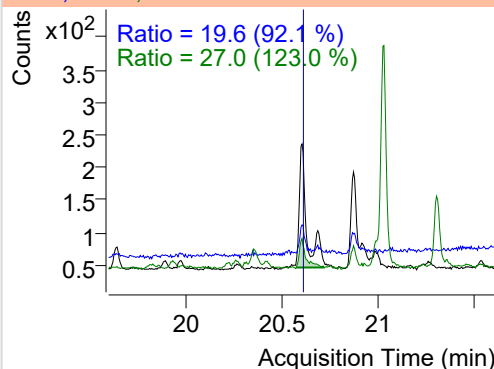
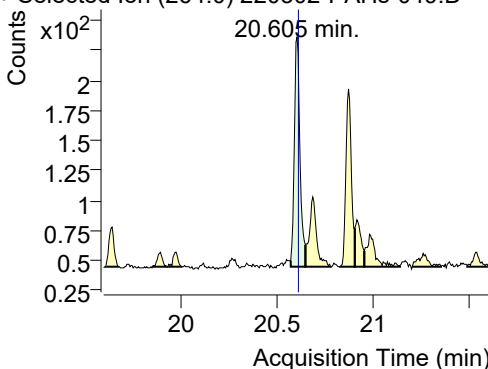


+ SIM (20.610-20.746 min, 26 scans) (**) 2203

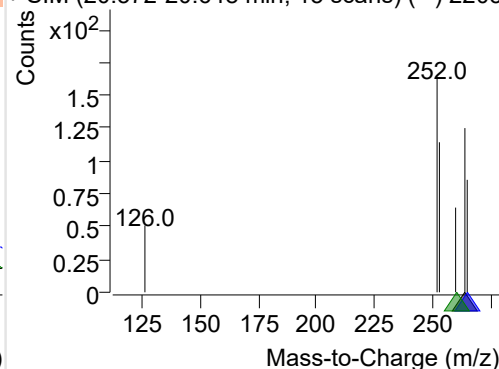
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-049.D

264.0, 265.0, 260.0

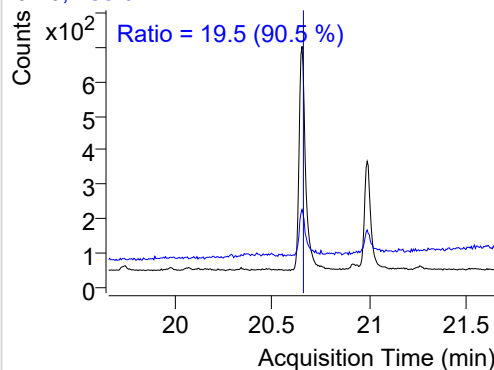
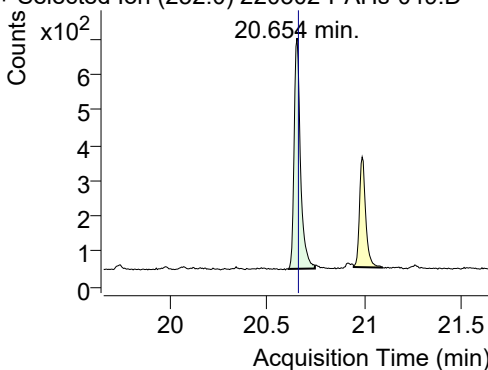


+ SIM (20.572-20.648 min, 15 scans) (**) 2203

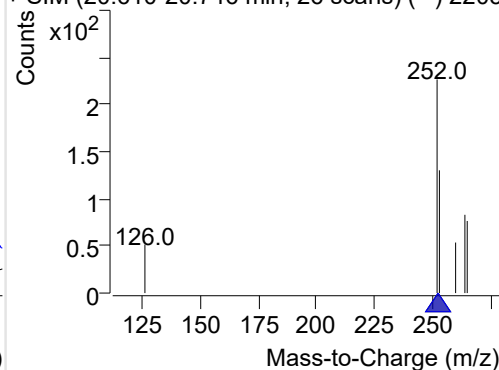
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-049.D

252.0, 253.0

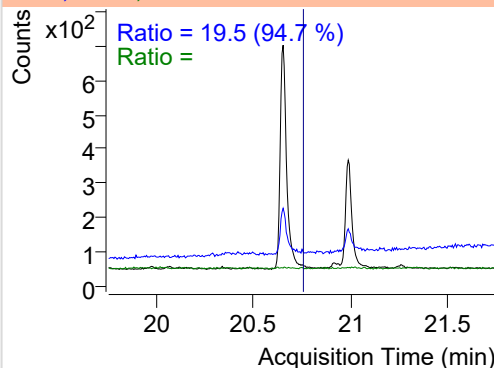
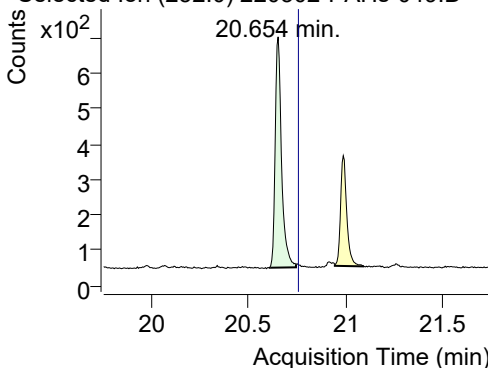


+ SIM (20.610-20.746 min, 26 scans) (**) 2203

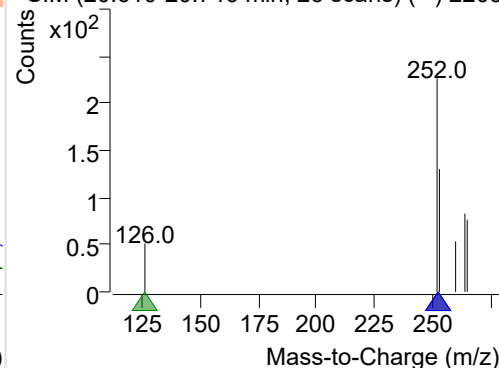
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-049.D

252.0, 253.0, 126.0

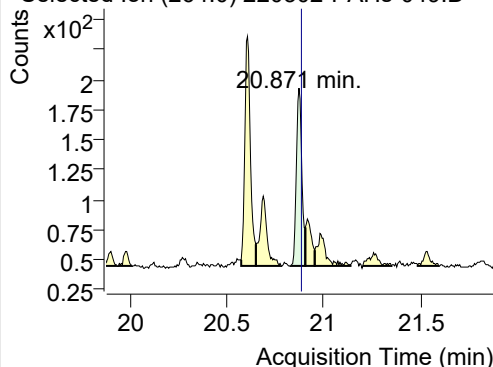


+ SIM (20.610-20.746 min, 26 scans) (**) 2203

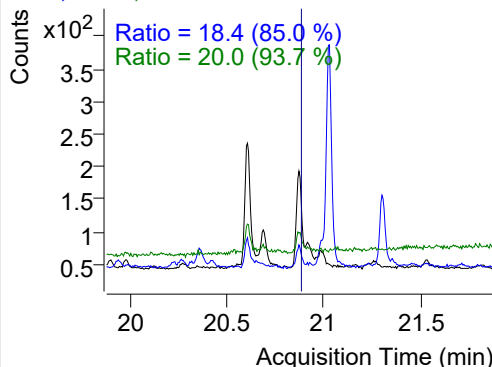


IS-D12-Perylene

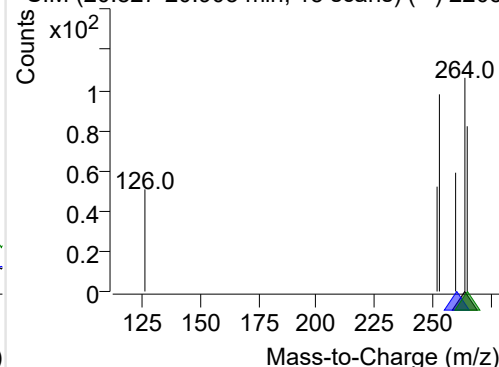
+ Selected Ion (264.0) 220302-PAHs-049.D



264.0, 260.0, 265.0

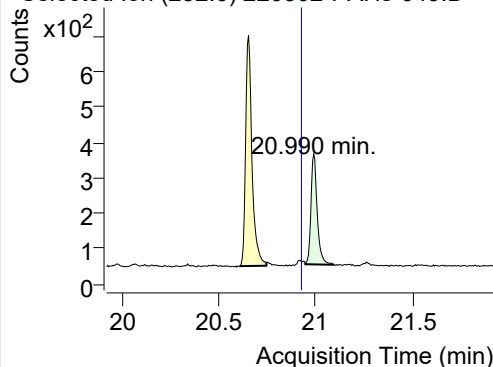


+ SIM (20.827-20.903 min, 15 scans) (**) 2203

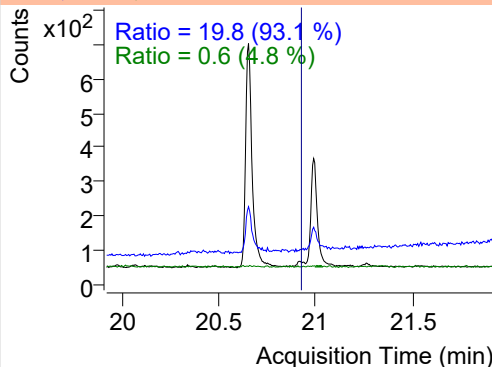


Perylene

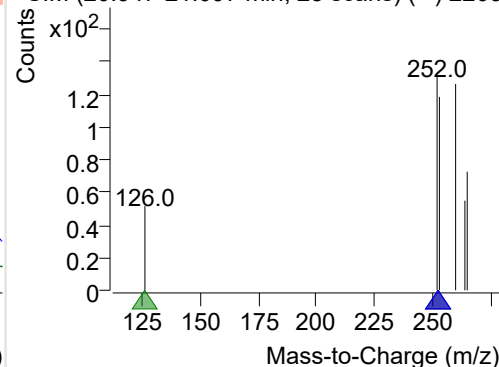
+ Selected Ion (252.0) 220302-PAHs-049.D



252.0, 253.0, 126.0

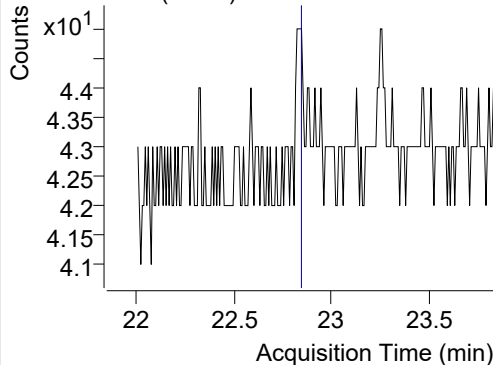


+ SIM (20.947-21.097 min, 28 scans) (**) 2203

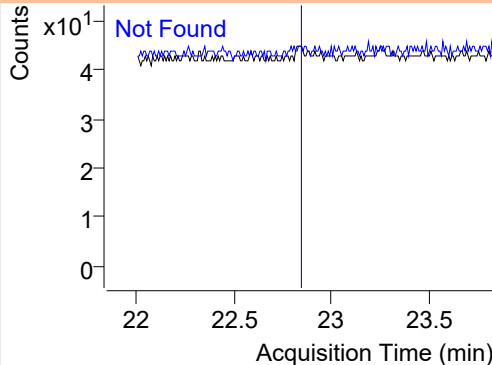


Indeno(1,2,3-c,d)pyrene

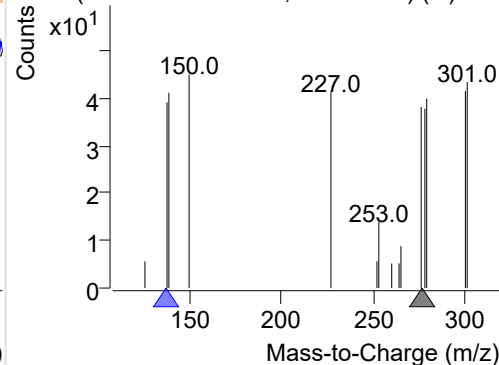
+ Selected Ion (276.0) 220302-PAHs-049.D



276.0, 138.0

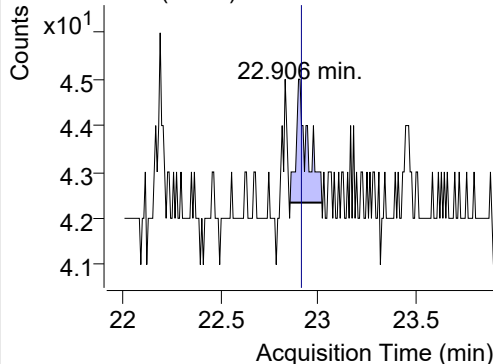


+ SIM (21.837-23.837 min, 270 scans) (**) 2203

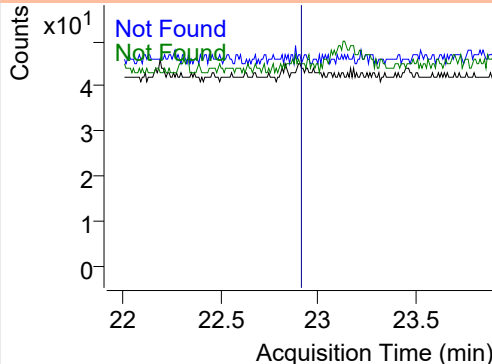


Dibenz(a,h)anthracene

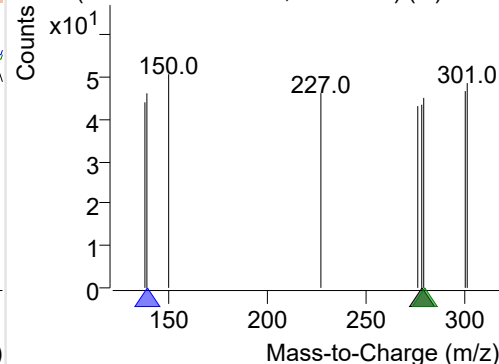
+ Selected Ion (278.0) 220302-PAHs-049.D



278.0, 139.0, 279.0



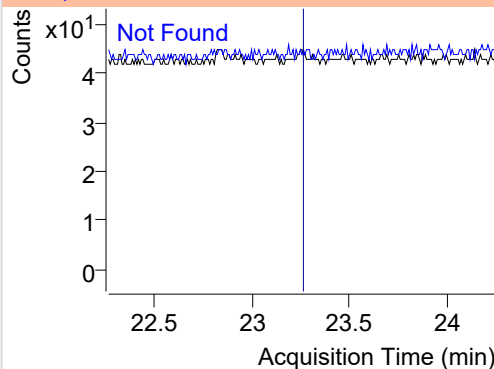
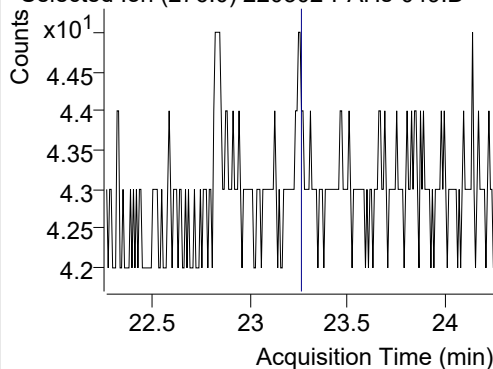
+ SIM (22.855-23.017 min, 21 scans) (**) 2203



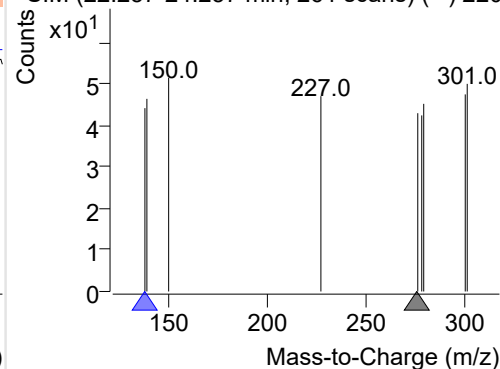
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-049.D

276.0, 138.0

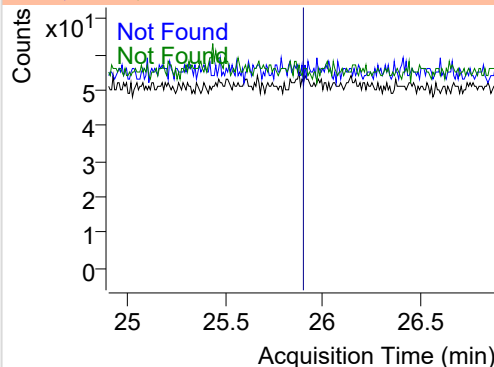
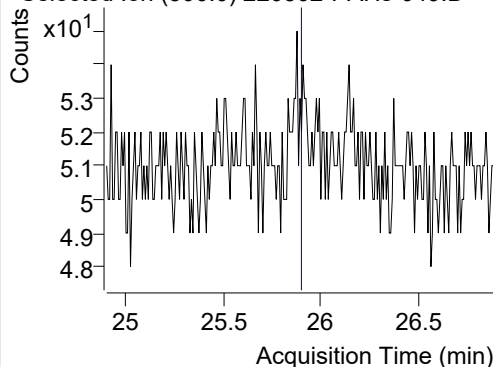


+ SIM (22.257-24.257 min, 261 scans) (**) 220

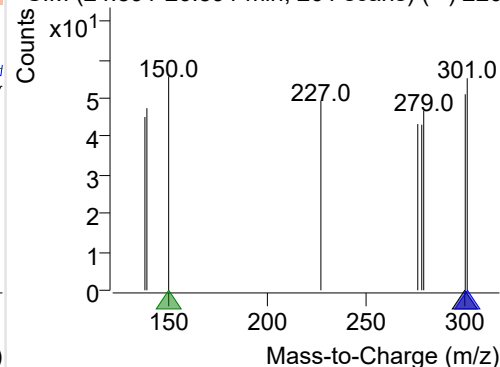
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-049.D

300.0, 301.0, 150.0



+ SIM (24.891-26.891 min, 261 scans) (**) 220



Quantitative Analysis Sample Based Report

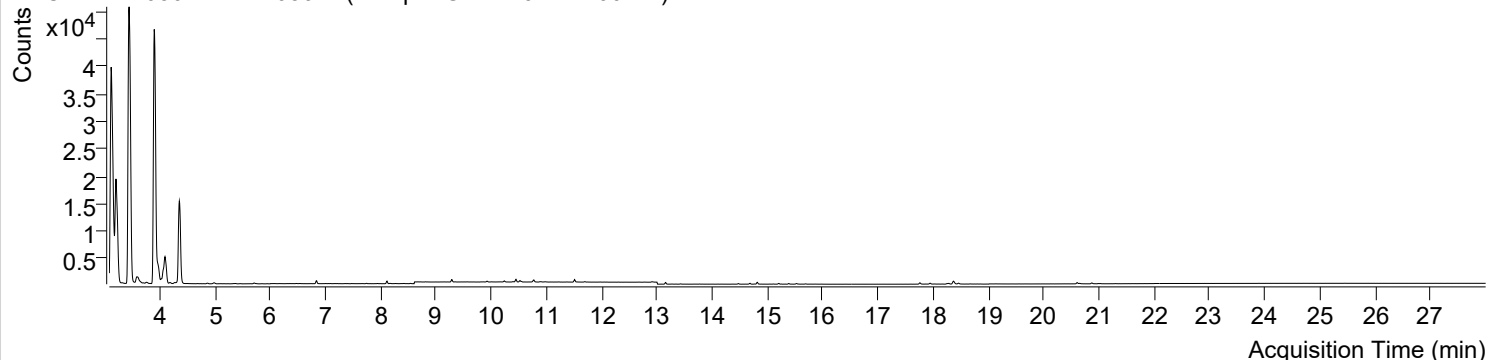


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 11:14:21	Data File	220302-PAHs-050.D
Type	Sample	Name	Sample-Gas-220211-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

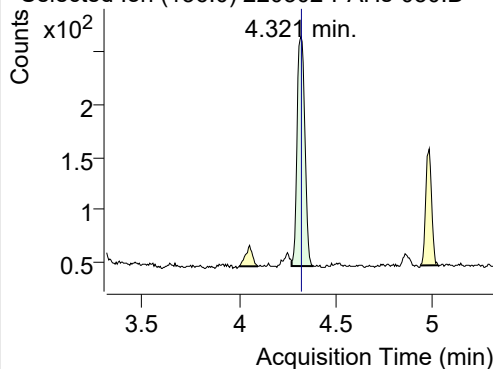
+ TIC SIM 220302-PAHs-050.D (Sample-Gas-220211-100DIL)



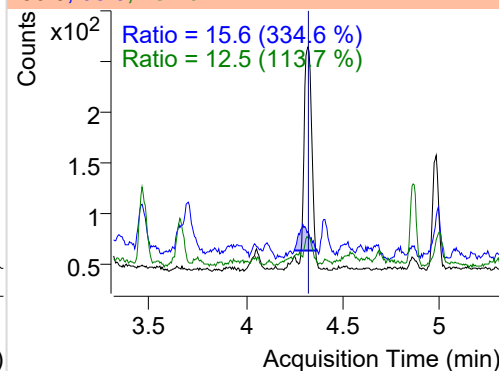
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.321	136.0	610	218.78	ND ng/ml	12.5
Naphthalene	4.354	128.0	32313	12101.42	ND ng/ml	13.5
Acenaphthylene	7.745	152.0	68	43.32	ND ng/ml	13.4
IS-D10-Acenaphthene	8.112	164.0	353	232.57	ND ng/ml	89.9
Acenaphthene	8.183	154.0	20	14.02	ND ng/ml	120.4
LSS-D10-Fluorene	9.281	176.0	340	205.63	ND ng/ml	90.9
Fluorene	9.355	166.0	25	11.96	ND ng/ml	54.7
IS-D10-Phenanthrene	11.508	188.0	578	374.49	ND ng/ml	16.0
Phenanthrene	11.560	178.0	23	14.89	ND ng/ml	
Anthracene	11.697	178.0	23	17.89	ND ng/ml	
Fluoranthene	14.359	202.0	7	5.48	ND ng/ml	
LSS-D10-Pyrene	14.814	212.0	416	255.76	ND ng/ml	16.7
Pyrene	14.852	202.0	10	6.48	ND ng/ml	
Benz(a)anthracene	17.817	228.0	5	2.85	ND ng/ml	
IS-D12-Chrysene	17.758	240.0	360	190.21	ND ng/ml	18.0
Chrysene	17.817	228.0	5	2.85	ND ng/ml	
Benzo(b)fluoranthene	20.128	252.0	18	5.00	ND ng/ml	
Benzo(k)fluoranthene	20.128	252.0	18	5.00	ND ng/ml	
SS-D12-Benzo(e)pyrene	20.605	264.0	319	157.52	ND ng/ml	22.9
Benzo(e)pyrene	20.648	252.0	108	58.39	ND ng/ml	20.4
Benzo(a)pyrene	20.648	252.0	108	58.39	ND ng/ml	20.4
IS-D12-Perylene	20.871	264.0	222	109.26	ND ng/ml	21.6
Perylene	20.990	252.0	47	25.93	ND ng/ml	28.9
Indeno(1,2,3-c,d)pyrene	22.829	276.0	6	2.51	ND ng/ml	
Dibenz(a,h)anthracene		278.0			ND ng/ml	
Benzo(g,h,i)perylene	22.829	276.0	6	2.51	ND ng/ml	
Coronene	25.486	300.0	13	5.00	ND ng/ml	

IS-D8-Naphthalene

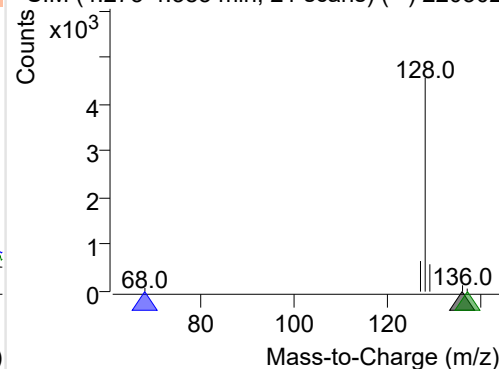
+ Selected Ion (136.0) 220302-PAHs-050.D



136.0, 68.0, 137.0

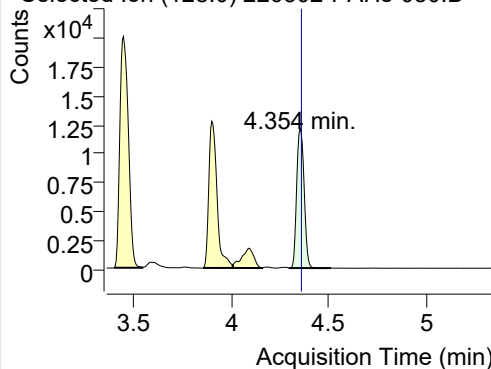


+ SIM (4.273-4.385 min, 21 scans) (**) 220302

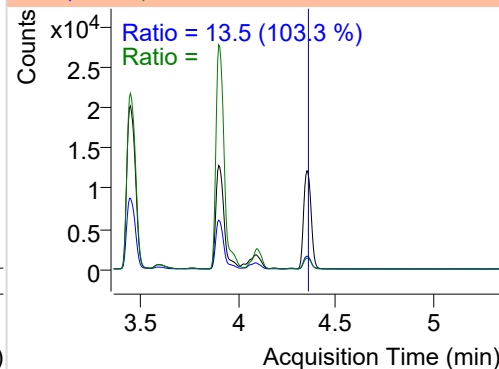


Naphthalene

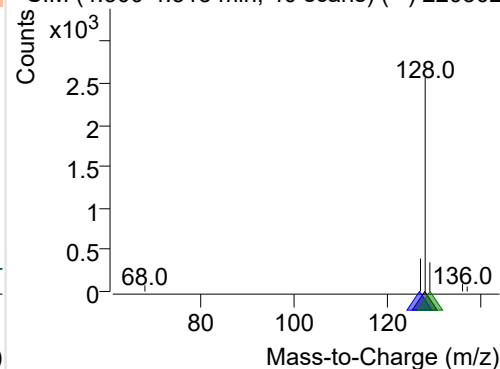
+ Selected Ion (128.0) 220302-PAHs-050.D



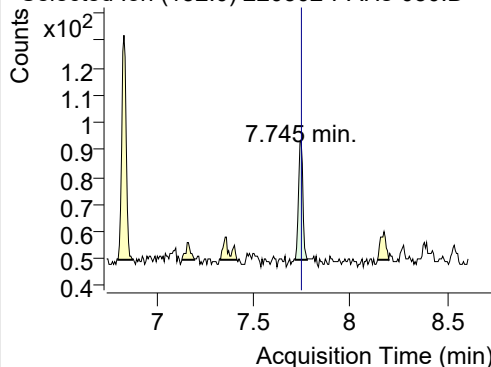
128.0, 127.0, 129.0



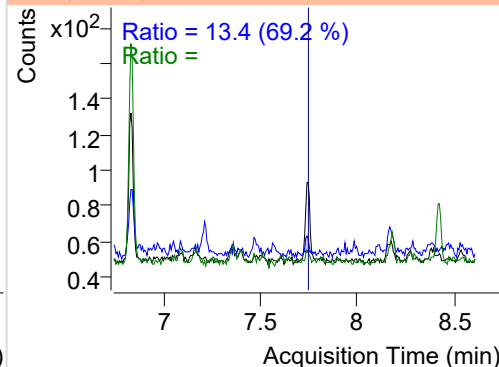
+ SIM (4.300-4.513 min, 40 scans) (**) 220302

**Acenaphthylene**

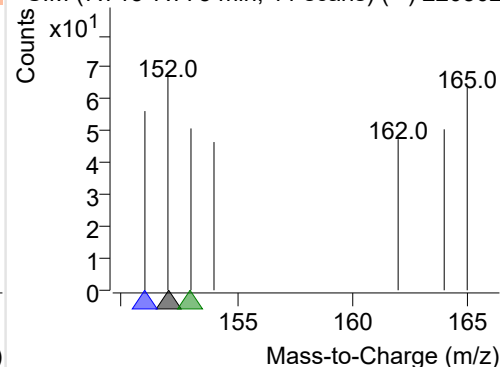
+ Selected Ion (152.0) 220302-PAHs-050.D



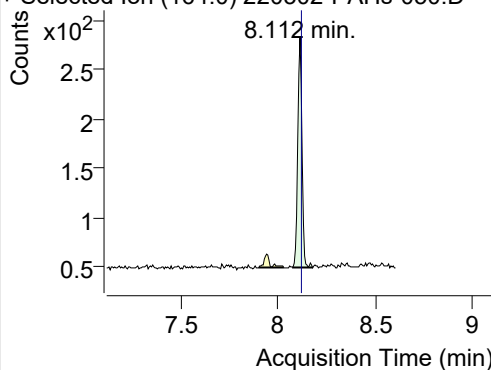
152.0, 151.0, 153.0



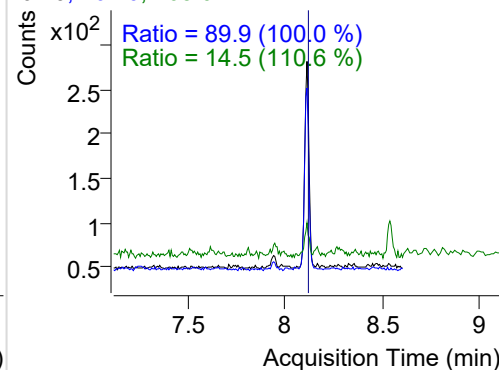
+ SIM (7.715-7.775 min, 11 scans) (**) 220302

**IS-D10-Acenaphthene**

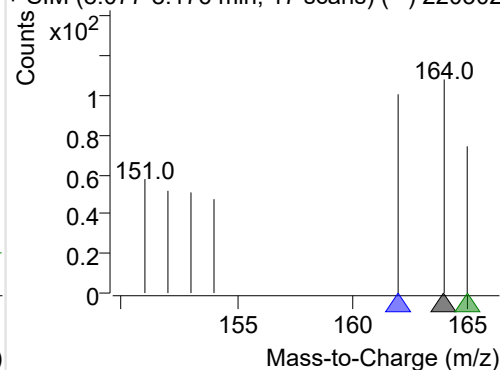
+ Selected Ion (164.0) 220302-PAHs-050.D



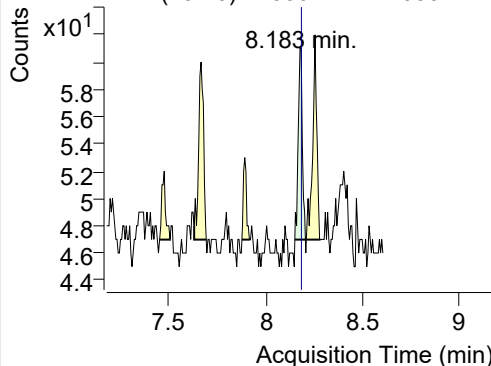
164.0, 162.0, 165.0



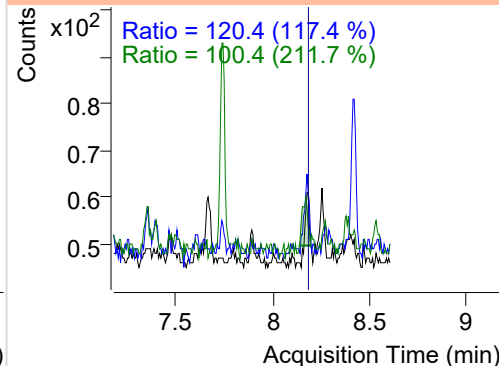
+ SIM (8.077-8.176 min, 17 scans) (**) 220302

**Acenaphthene**

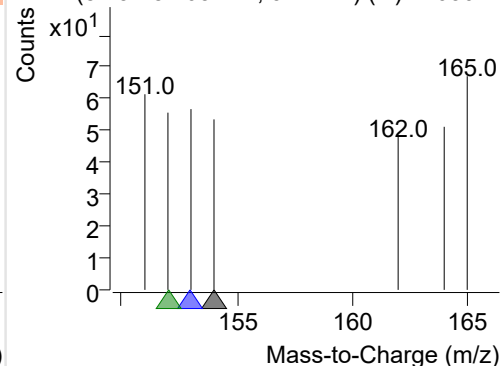
+ Selected Ion (154.0) 220302-PAHs-050.D



154.0, 153.0, 152.0

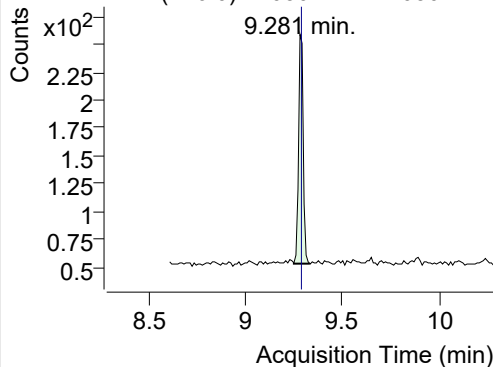


+ SIM (8.151-8.205 min, 9 scans) (**) 220302-I

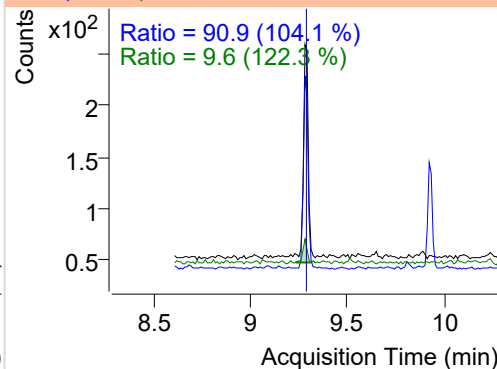


LSS-D10-Fluorene

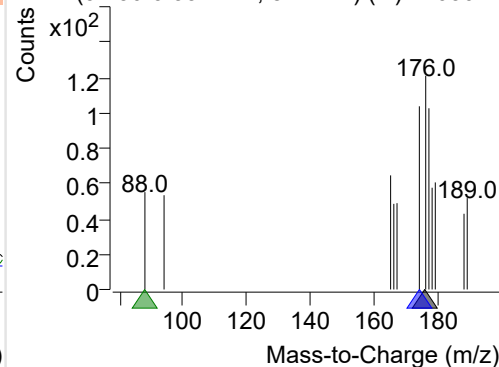
+ Selected Ion (176.0) 220302-PAHs-050.D



176.0, 174.0, 88.0

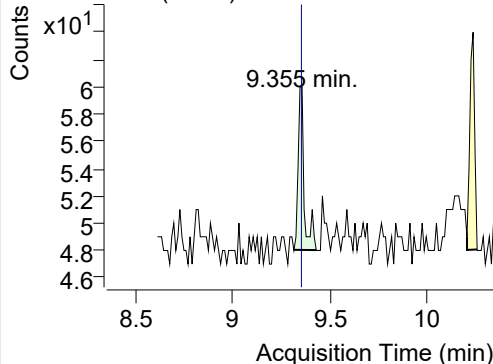


+ SIM (9.250-9.332 min, 8 scans) (**) 220302-I

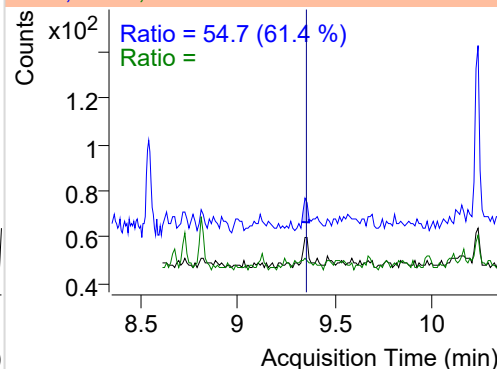


Fluorene

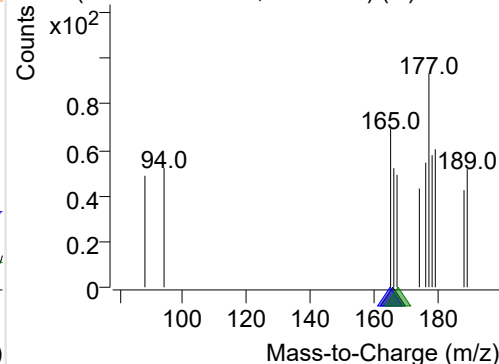
+ Selected Ion (166.0) 220302-PAHs-050.D



166.0, 165.0, 167.0

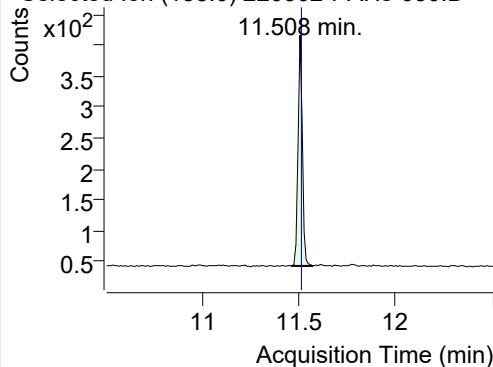


+ SIM (9.313-9.428 min, 10 scans) (**) 220302

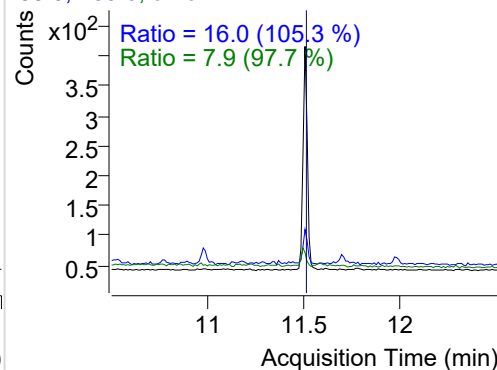


IS-D10-Phenanthrene

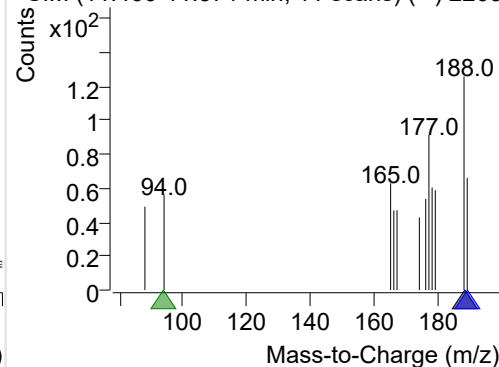
+ Selected Ion (188.0) 220302-PAHs-050.D



188.0, 189.0, 94.0

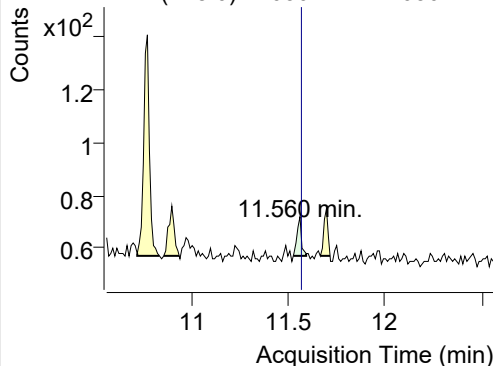


+ SIM (11.466-11.571 min, 11 scans) (**) 2203

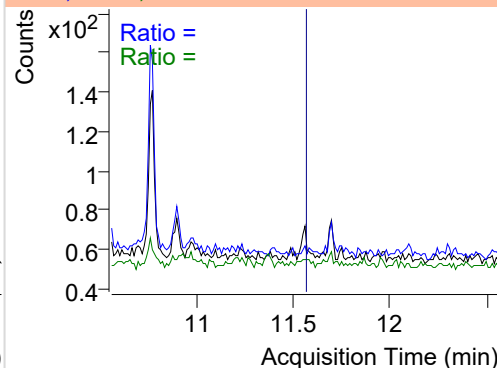


Phenanthrene

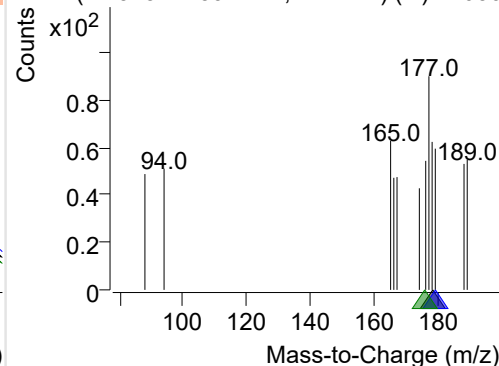
+ Selected Ion (178.0) 220302-PAHs-050.D



178.0, 179.0, 176.0

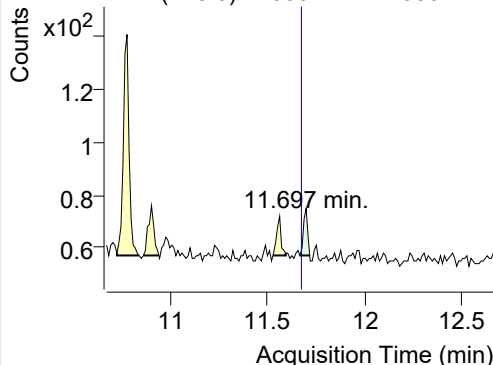


+ SIM (11.525-11.592 min, 7 scans) (**) 22030

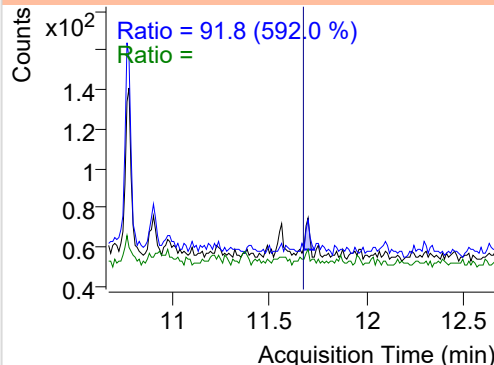


Anthracene

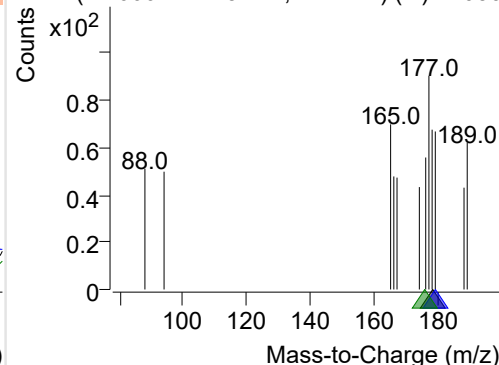
+ Selected Ion (178.0) 220302-PAHs-050.D



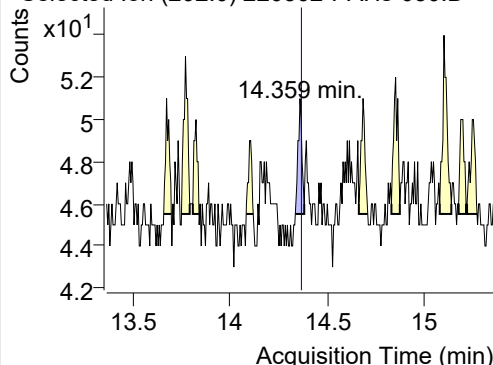
178.0, 179.0, 176.0



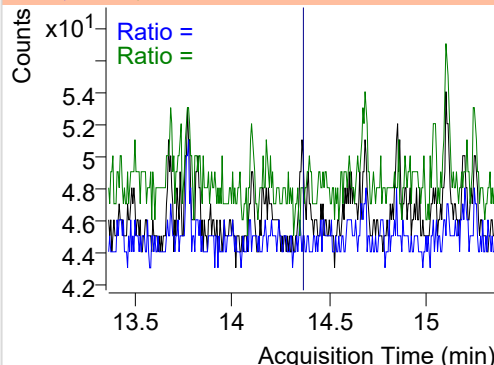
+ SIM (11.666-11.715 min, 4 scans) (**) 22030

**Fluoranthene**

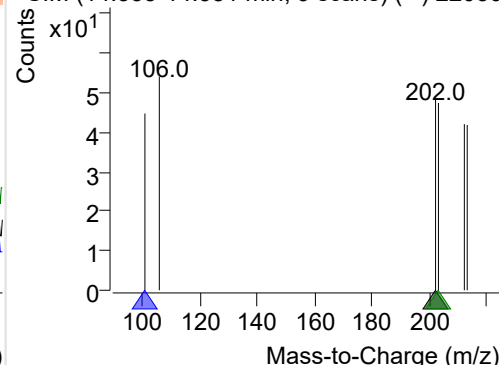
+ Selected Ion (202.0) 220302-PAHs-050.D



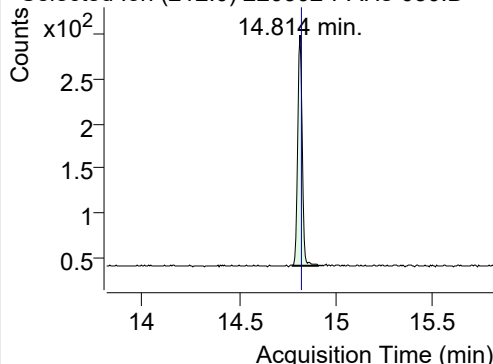
202.0, 101.0, 203.0



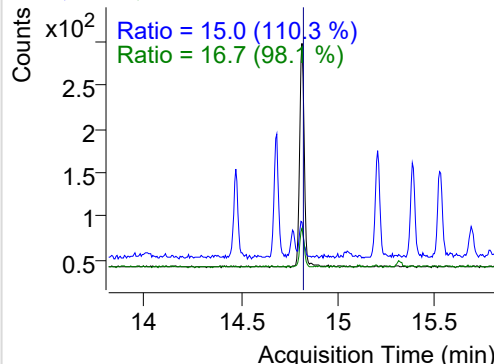
+ SIM (14.335-14.381 min, 9 scans) (**) 22030

**LSS-D10-Pyrene**

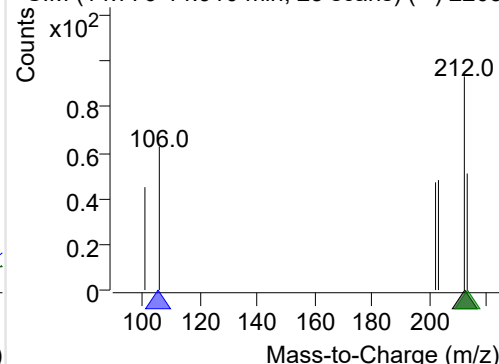
+ Selected Ion (212.0) 220302-PAHs-050.D



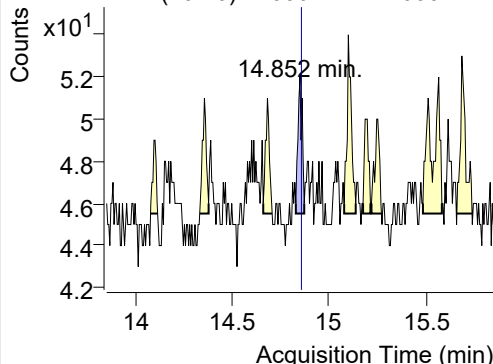
212.0, 106.0, 213.0



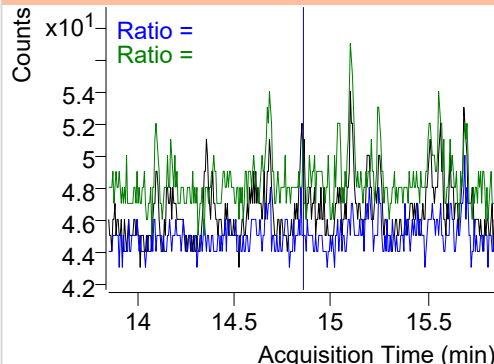
+ SIM (14.776-14.910 min, 25 scans) (**) 2203

**Pyrene**

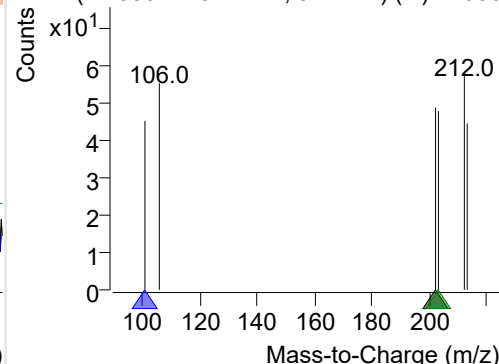
+ Selected Ion (202.0) 220302-PAHs-050.D



202.0, 101.0, 203.0



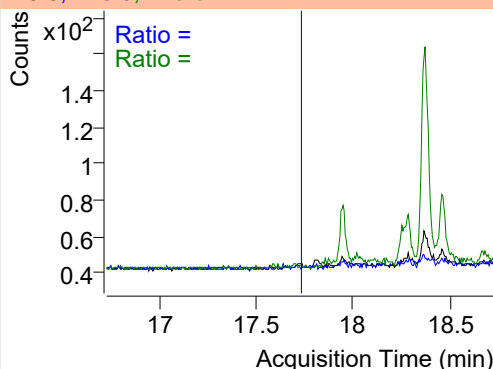
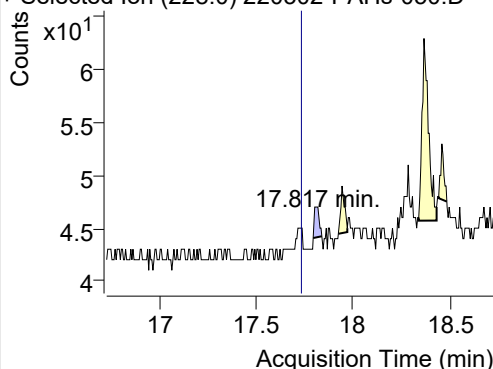
+ SIM (14.830-14.874 min, 9 scans) (**) 22030



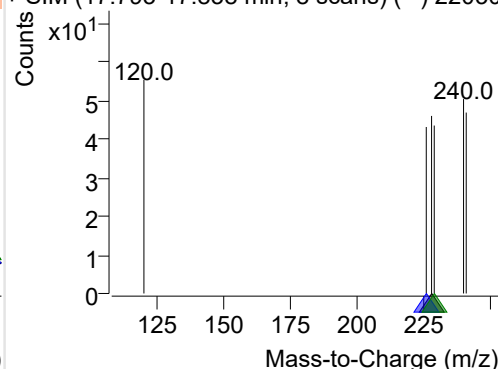
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-050.D

228.0, 226.0, 229.0

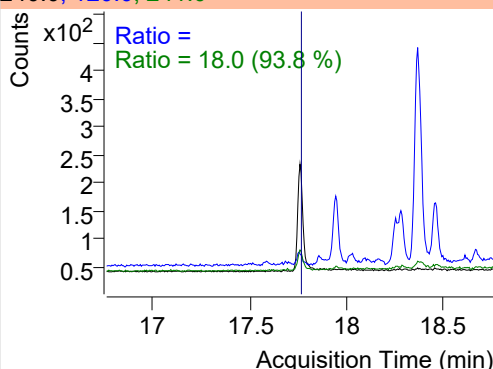
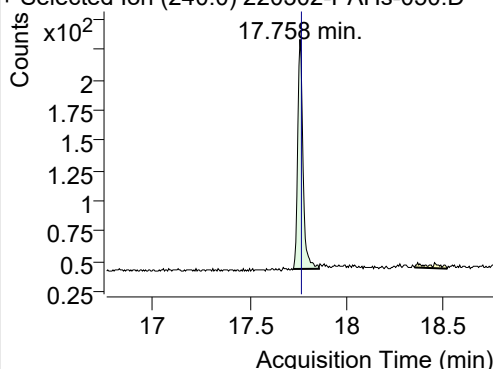


+ SIM (17.793-17.838 min, 8 scans) (**) 22030

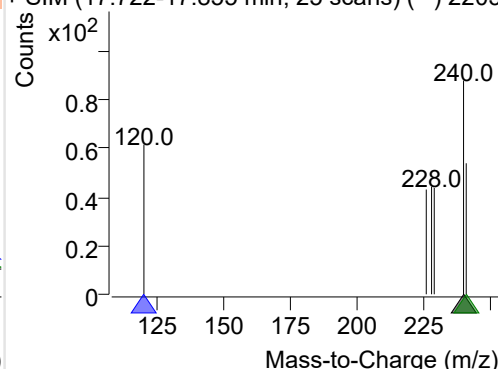
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-050.D

240.0, 120.0, 241.0

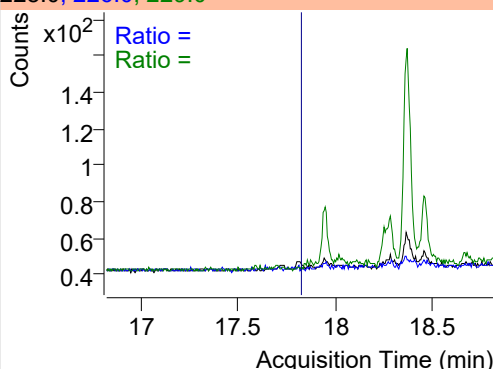
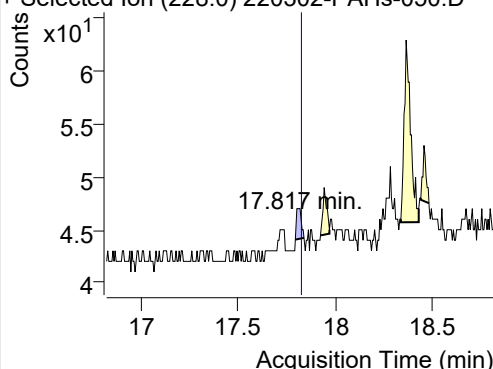


+ SIM (17.722-17.855 min, 25 scans) (**) 2203

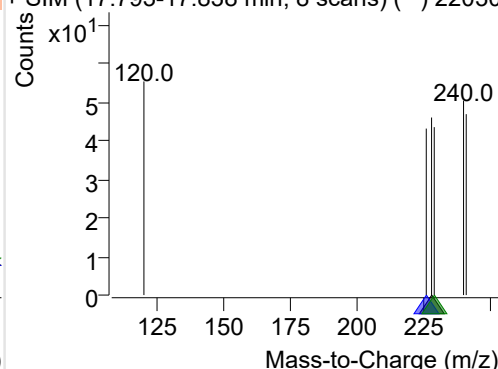
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-050.D

228.0, 226.0, 229.0

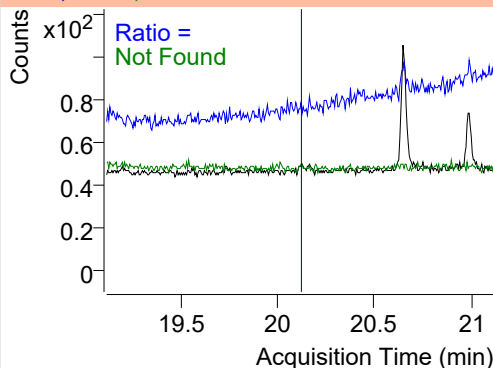
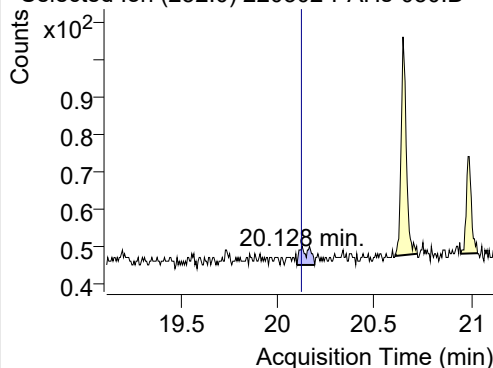


+ SIM (17.793-17.838 min, 8 scans) (**) 22030

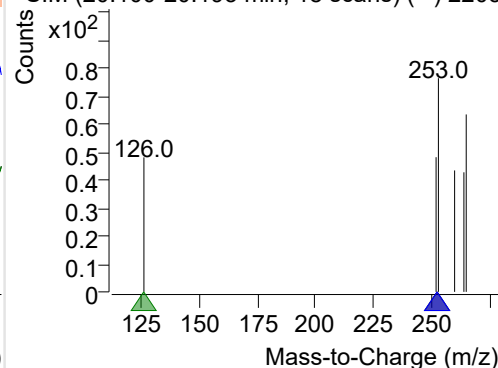
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-050.D

252.0, 253.0, 126.0



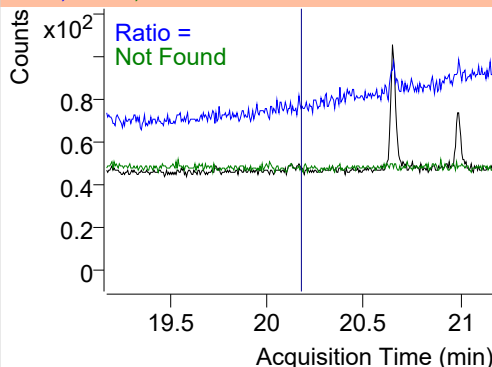
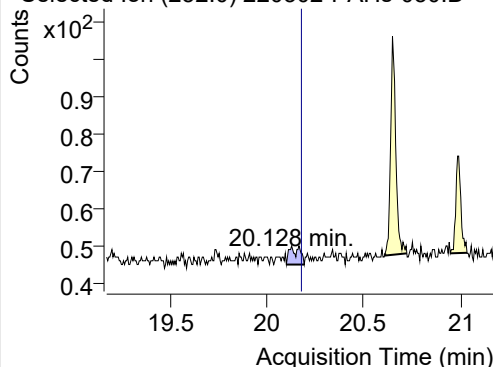
+ SIM (20.100-20.193 min, 18 scans) (**) 2203



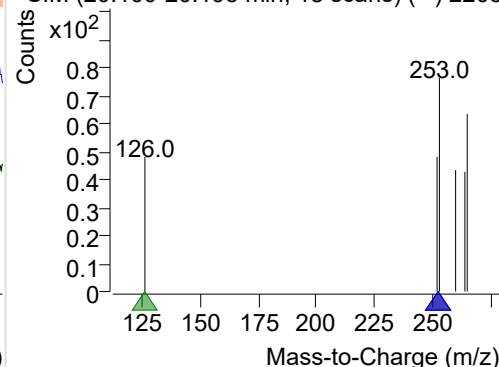
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-050.D

252.0, 253.0, 126.0

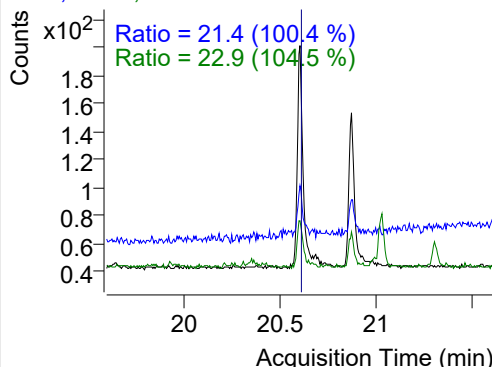
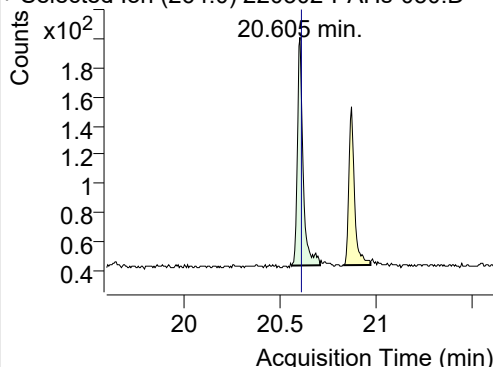


+ SIM (20.100-20.193 min, 18 scans) (**) 2203

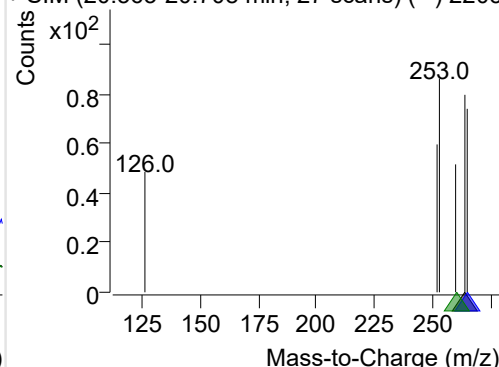
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-050.D

264.0, 265.0, 260.0

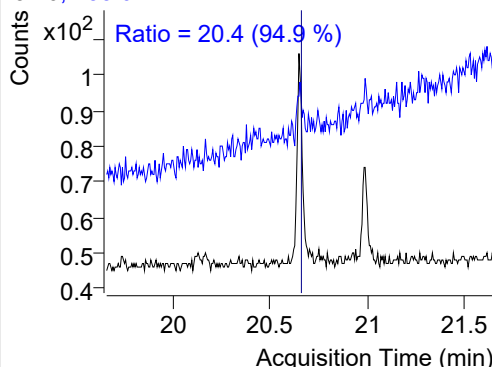
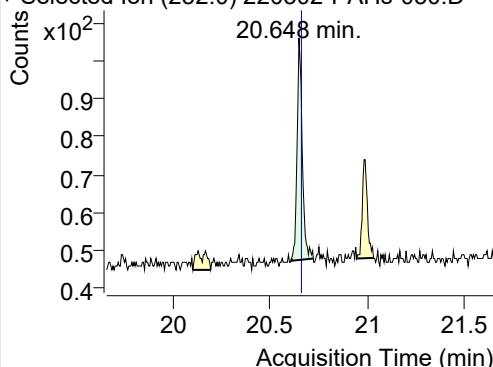


+ SIM (20.563-20.708 min, 27 scans) (**) 2203

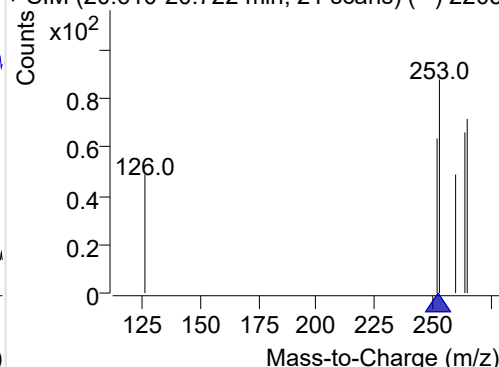
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-050.D

252.0, 253.0

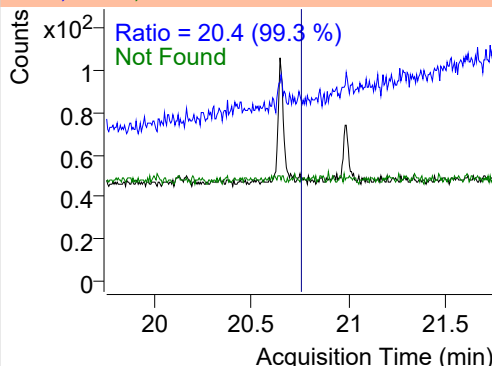
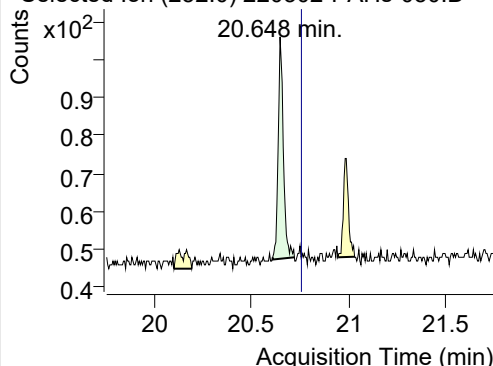


+ SIM (20.610-20.722 min, 21 scans) (**) 2203

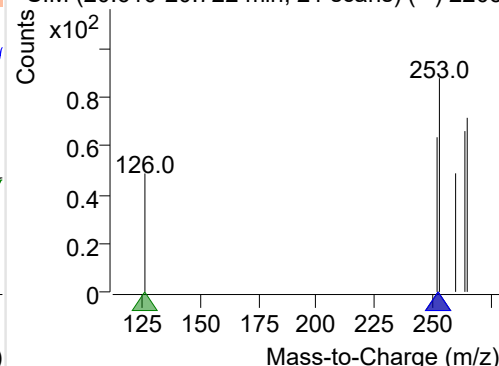
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-050.D

252.0, 253.0, 126.0

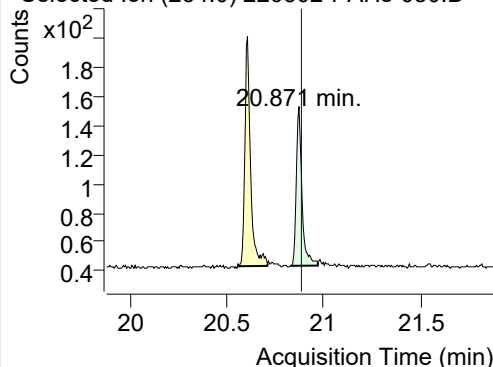


+ SIM (20.610-20.722 min, 21 scans) (**) 2203

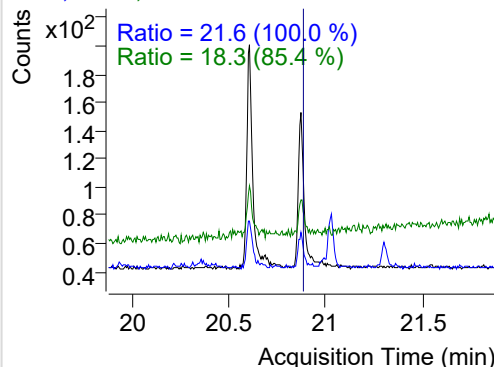


IS-D12-Perylene

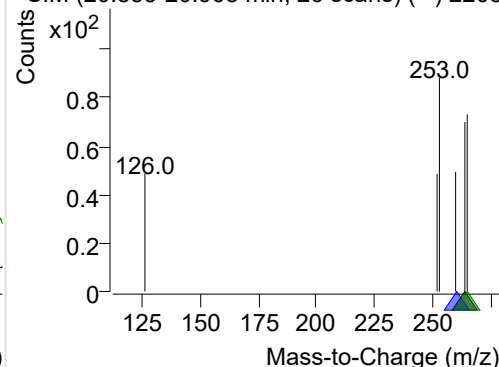
+ Selected Ion (264.0) 220302-PAHs-050.D



264.0, 260.0, 265.0

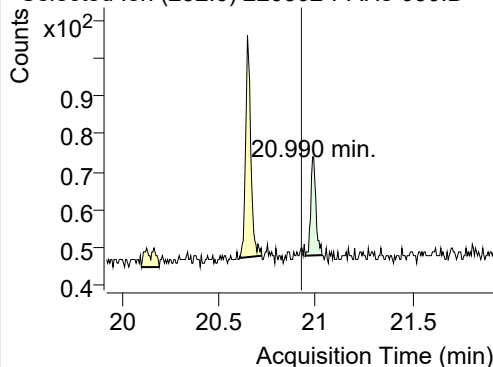


+ SIM (20.833-20.968 min, 26 scans) (**) 2203

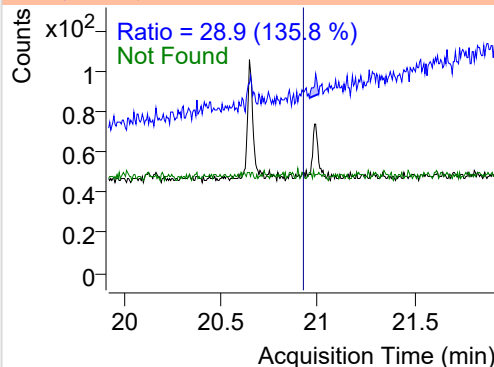


Perylene

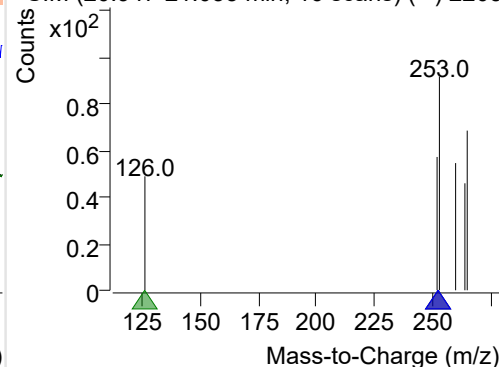
+ Selected Ion (252.0) 220302-PAHs-050.D



252.0, 253.0, 126.0

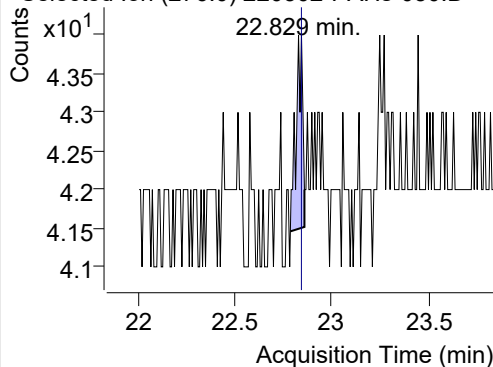


+ SIM (20.947-21.033 min, 16 scans) (**) 2203

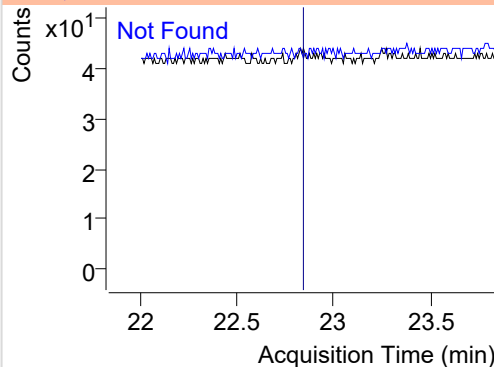


Indeno(1,2,3-c,d)pyrene

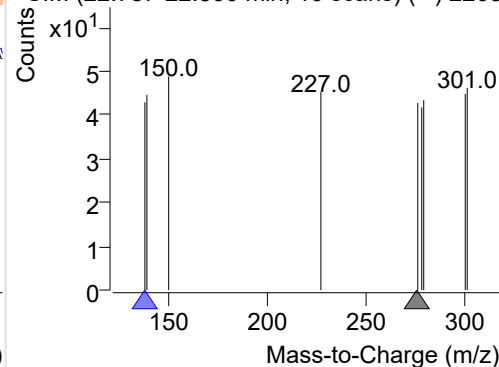
+ Selected Ion (276.0) 220302-PAHs-050.D



276.0, 138.0

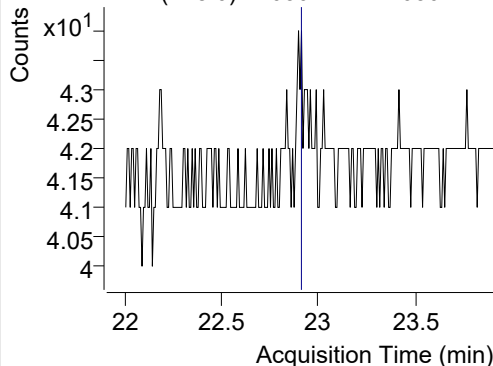


+ SIM (22.787-22.860 min, 10 scans) (**) 2203

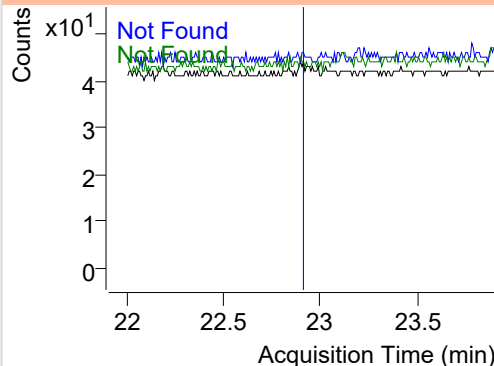


Dibenz(a,h)anthracene

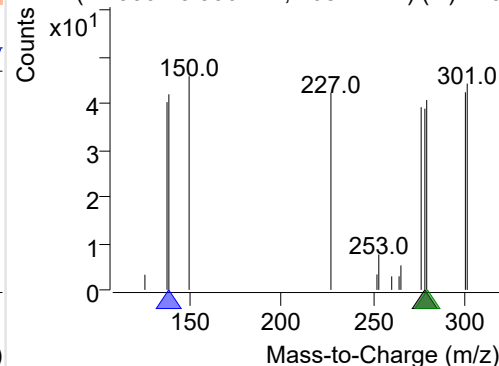
+ Selected Ion (278.0) 220302-PAHs-050.D



278.0, 139.0, 279.0



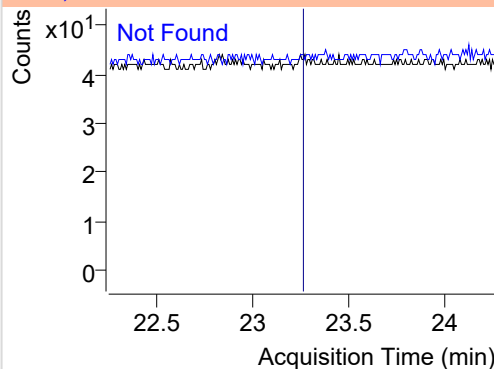
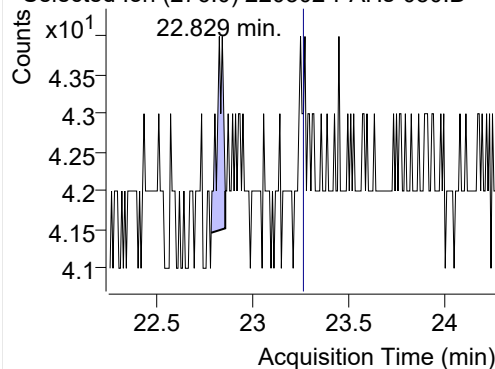
+ SIM (21.906-23.906 min, 268 scans) (**) 220



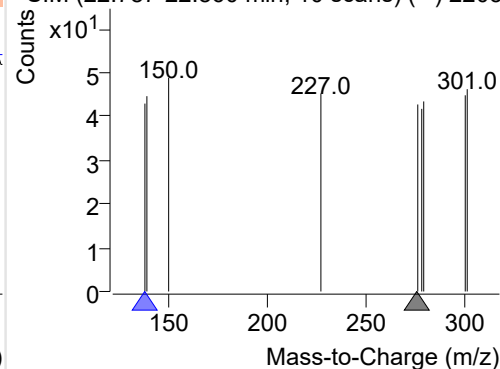
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-050.D

276.0, 138.0

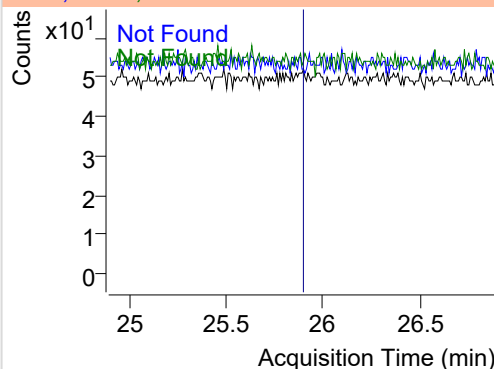
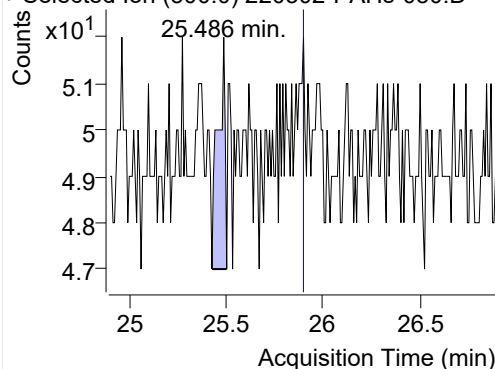


+ SIM (22.787-22.860 min, 10 scans) (**) 2203

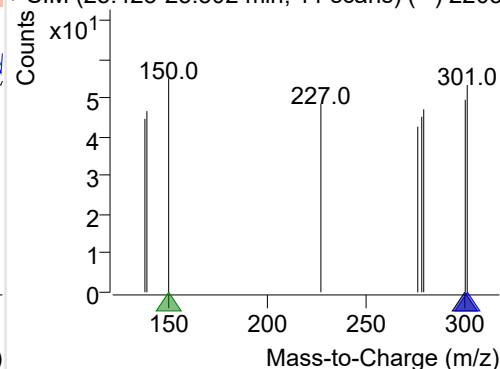
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-050.D

300.0, 301.0, 150.0



+ SIM (25.425-25.502 min, 11 scans) (**) 2203



Quantitative Analysis Sample Based Report

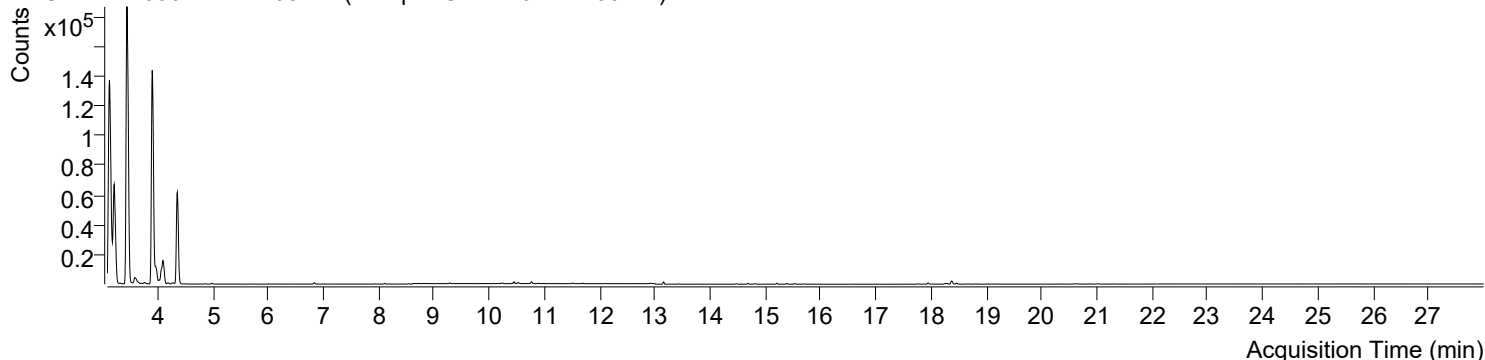


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오전 11:45:33	Data File	220302-PAHs-051.D
Type	Sample	Name	Sample-Gas-220217-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

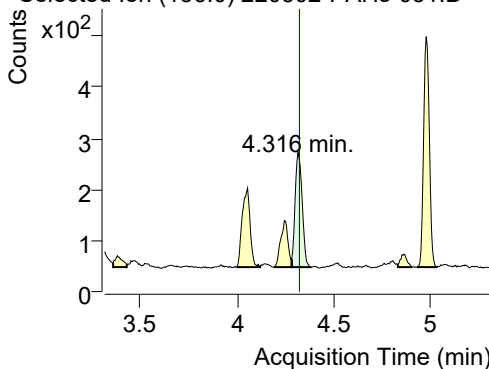
+ TIC SIM 220302-PAHs-051.D (Sample-Gas-220217-100DIL)



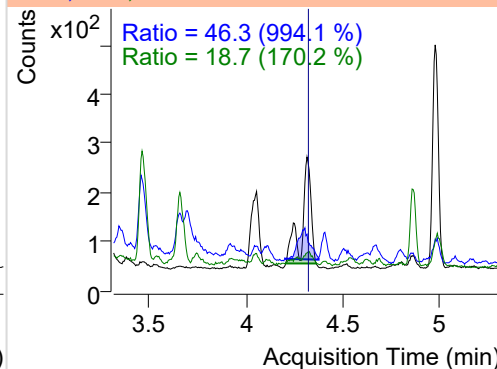
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.316	136.0	568	225.43	ND ng/ml	18.7
Naphthalene	4.354	128.0	124619	49683.00	ND ng/ml	12.9
Acenaphthylene	7.745	152.0	15	9.31	ND ng/ml	
IS-D10-Acenaphthene	8.112	164.0	340	217.18	ND ng/ml	88.0
Acenaphthene	8.177	154.0	42	26.19	ND ng/ml	117.0
LSS-D10-Fluorene	9.281	176.0	329	205.20	ND ng/ml	89.7
Fluorene	9.344	166.0	37	22.93	ND ng/ml	55.2
IS-D10-Phenanthrene	11.508	188.0	542	348.57	ND ng/ml	15.4
Phenanthrene	11.560	178.0	35	22.32	ND ng/ml	
Anthracene	11.697	178.0	153	90.32	ND ng/ml	23.1
Fluoranthene	14.364	202.0	10	5.73	ND ng/ml	
LSS-D10-Pyrene	14.814	212.0	441	268.77	ND ng/ml	17.5
Pyrene	14.852	202.0	23	9.73	ND ng/ml	
Benz(a)anthracene	17.725	228.0	15	4.45	ND ng/ml	
IS-D12-Chrysene	17.758	240.0	385	194.28	ND ng/ml	16.7
Chrysene	17.725	228.0	15	4.45	ND ng/ml	
Benzo(b)fluoranthene	19.732	252.0	11	7.31	ND ng/ml	
Benzo(k)fluoranthene	19.732	252.0	11	7.31	ND ng/ml	
SS-D12-Benzo(e)pyrene	20.605	264.0	350	172.48	ND ng/ml	25.5
Benzo(e)pyrene	20.654	252.0	180	76.31	ND ng/ml	17.2
Benzo(a)pyrene	20.654	252.0	180	76.31	ND ng/ml	17.2
IS-D12-Perylene	20.871	264.0	255	110.48	ND ng/ml	22.8
Perylene	20.985	252.0	61	27.31	ND ng/ml	
Indeno(1,2,3-c,d)pytene		276.0			ND ng/ml	
Dibenz(a,h)anthracene	22.844	278.0	5	3.08	ND ng/ml	
Benzo(g,h,i)perylene		276.0			ND ng/ml	
Coronene		300.0			ND ng/ml	

IS-D8-Naphthalene

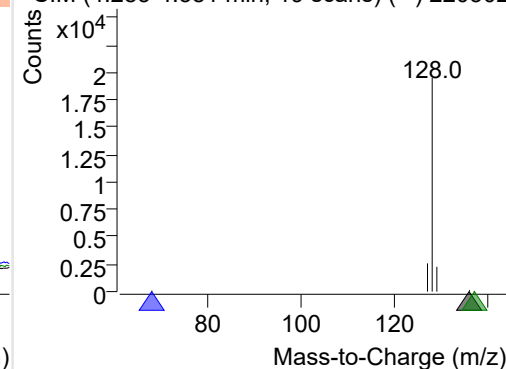
+ Selected Ion (136.0) 220302-PAHs-051.D



136.0, 68.0, 137.0

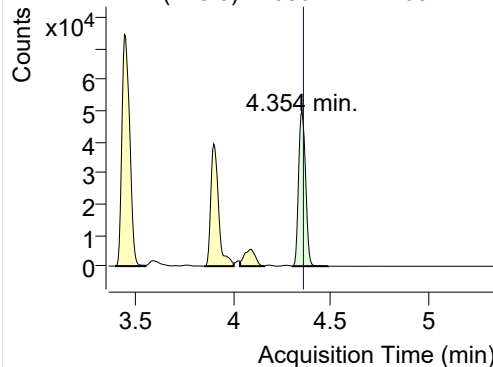


+ SIM (4.283-4.381 min, 19 scans) (**) 220302

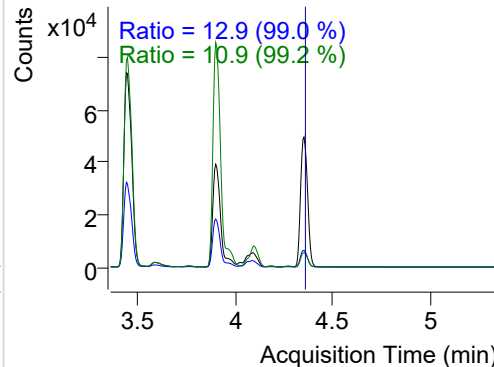


Naphthalene

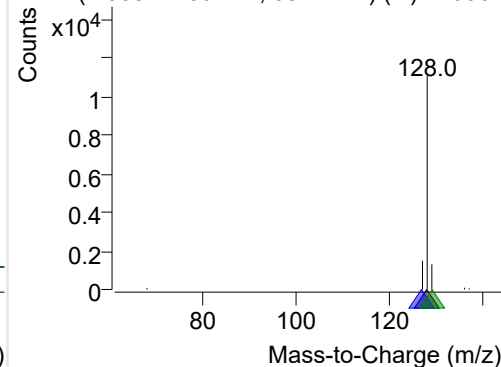
+ Selected Ion (128.0) 220302-PAHs-051.D



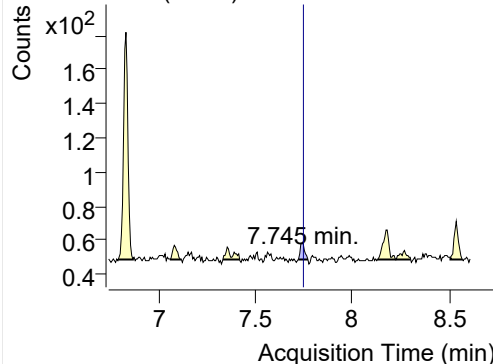
128.0, 127.0, 129.0



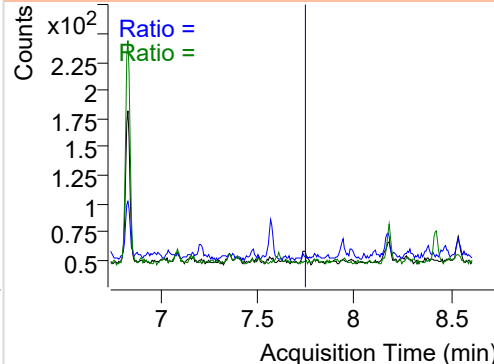
+ SIM (4.305-4.489 min, 35 scans) (**) 220302

**Acenaphthylene**

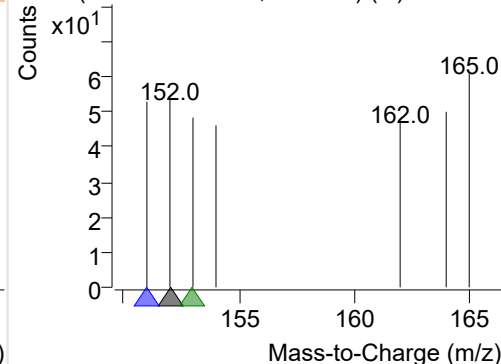
+ Selected Ion (152.0) 220302-PAHs-051.D



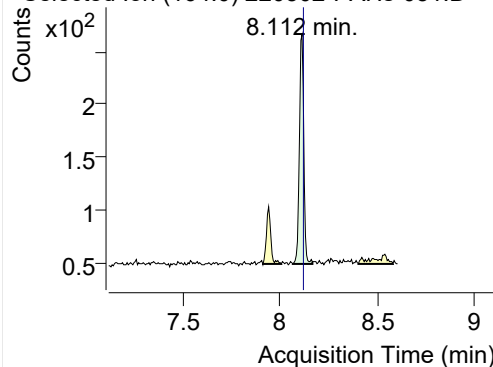
152.0, 151.0, 153.0



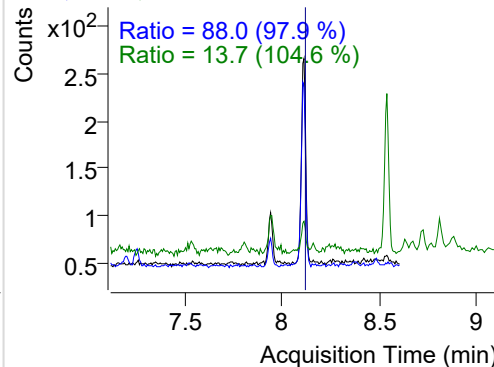
+ SIM (7.720-7.769 min, 9 scans) (**) 220302-I

**IS-D10-Acenaphthene**

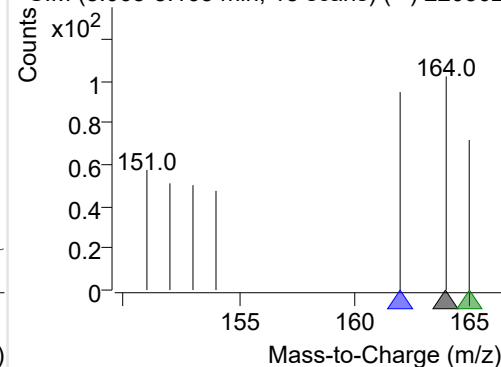
+ Selected Ion (164.0) 220302-PAHs-051.D



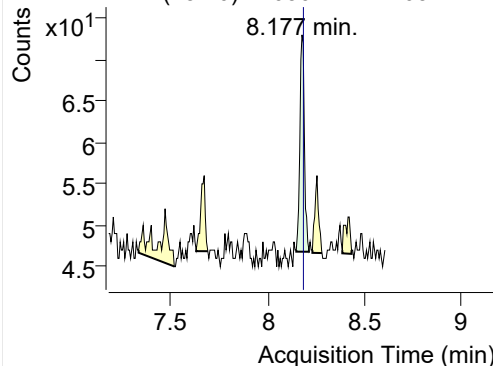
164.0, 162.0, 165.0



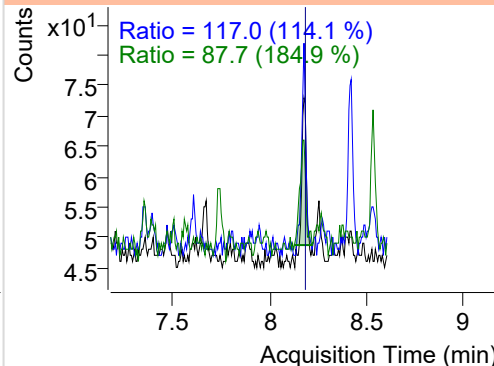
+ SIM (8.065-8.165 min, 18 scans) (**) 220302

**Acenaphthene**

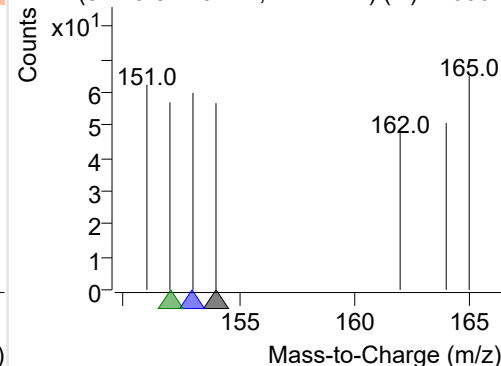
+ Selected Ion (154.0) 220302-PAHs-051.D



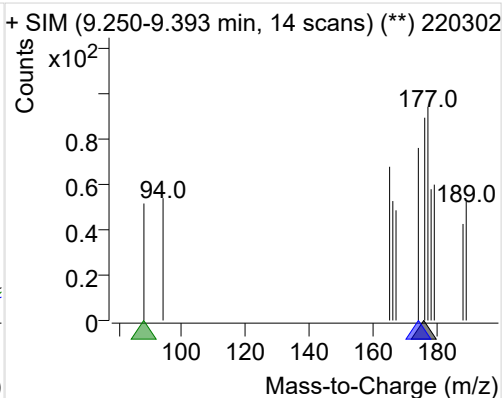
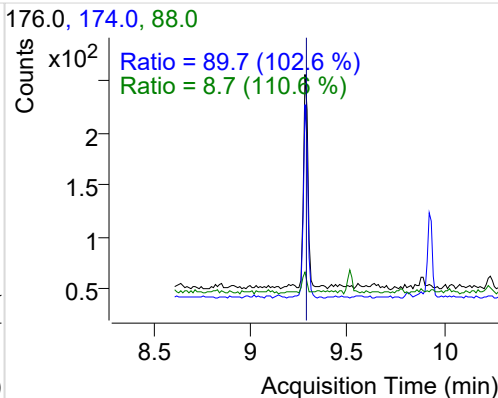
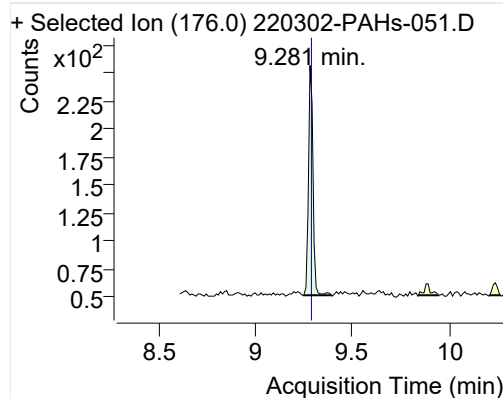
154.0, 153.0, 152.0



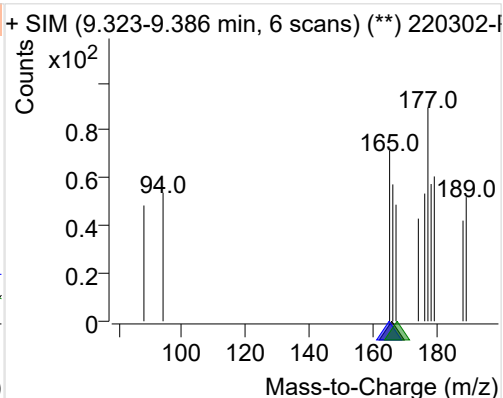
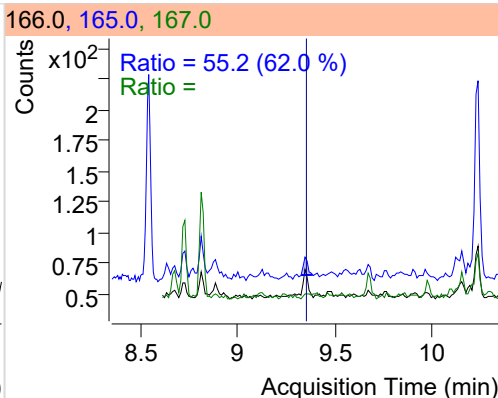
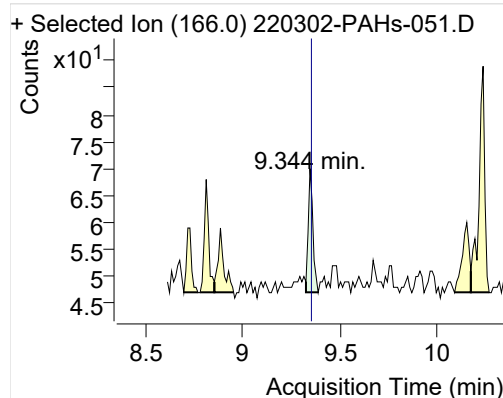
+ SIM (8.148-8.213 min, 12 scans) (**) 220302



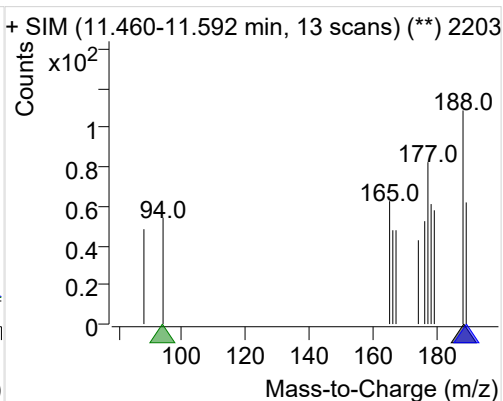
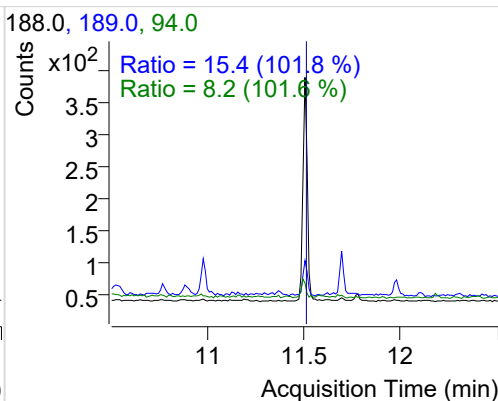
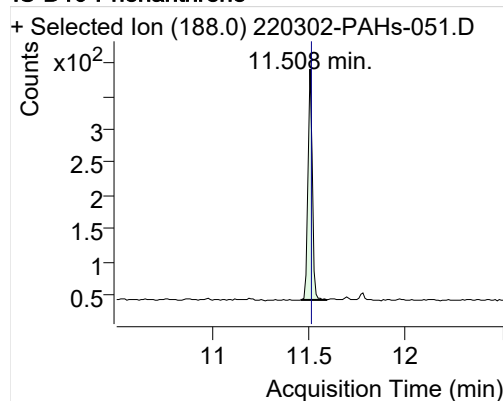
LSS-D10-Fluorene



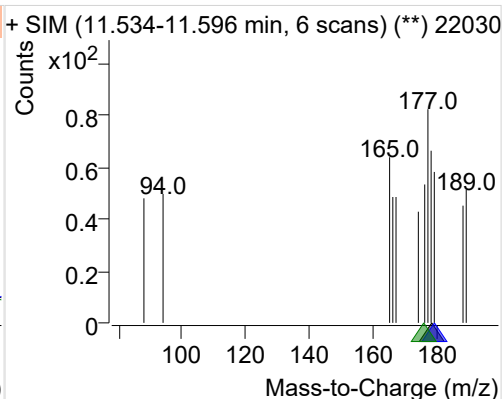
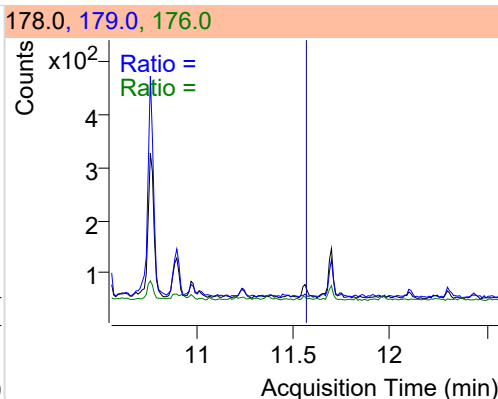
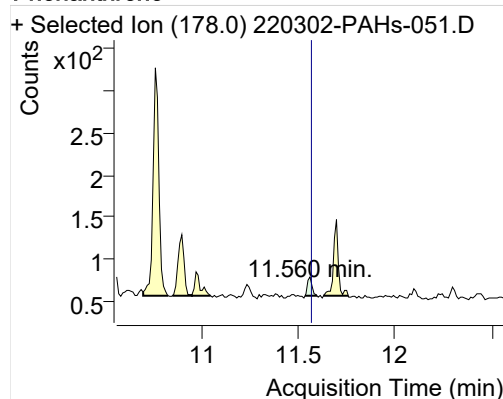
Fluorene



IS-D10-Phenanthrene

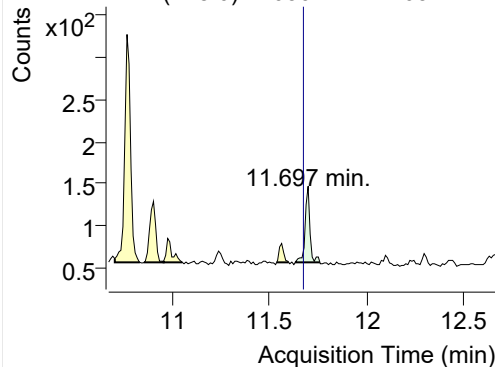


Phenanthrene

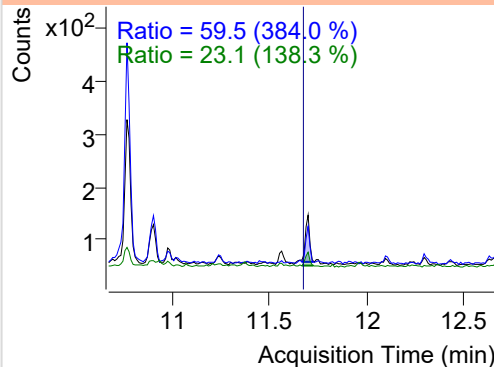


Anthracene

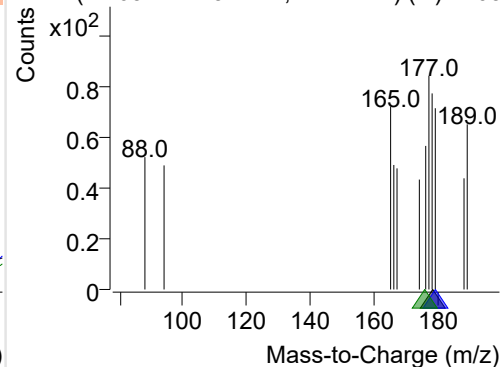
+ Selected Ion (178.0) 220302-PAHs-051.D



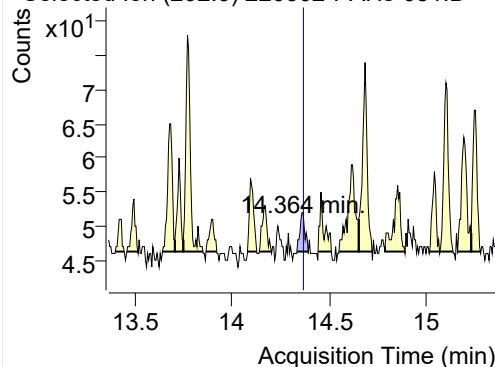
178.0, 179.0, 176.0



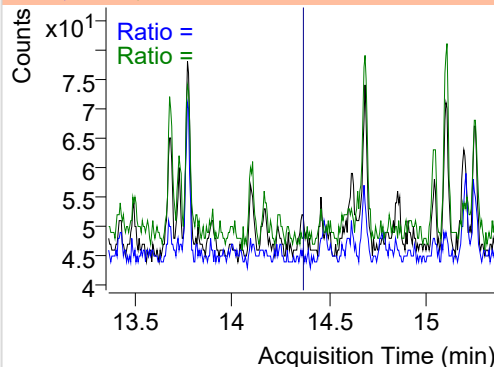
+ SIM (11.634-11.757 min, 12 scans) (**) 2203

**Fluoranthene**

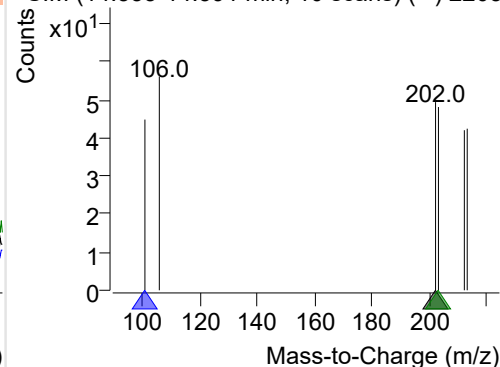
+ Selected Ion (202.0) 220302-PAHs-051.D



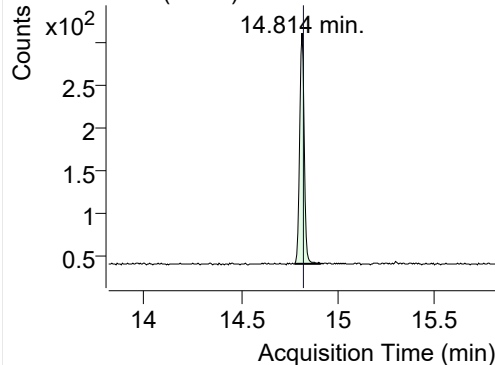
202.0, 101.0, 203.0



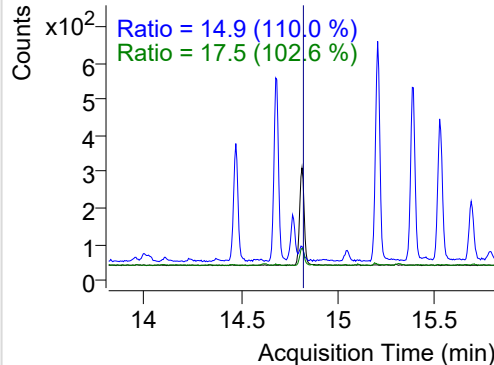
+ SIM (14.333-14.391 min, 10 scans) (**) 2203

**LSS-D10-Pyrene**

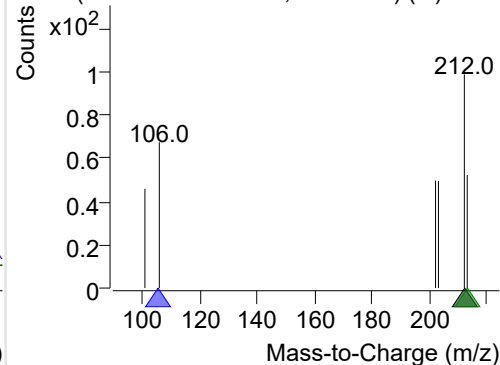
+ Selected Ion (212.0) 220302-PAHs-051.D



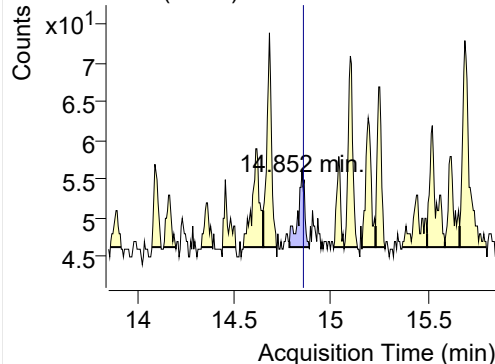
212.0, 106.0, 213.0



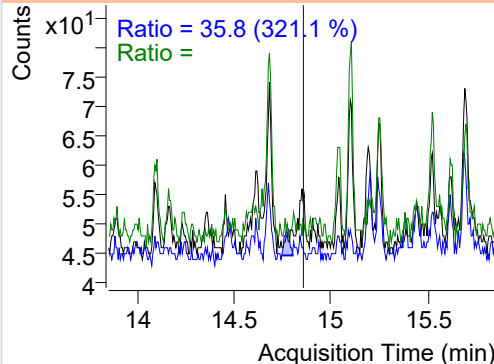
+ SIM (14.777-14.911 min, 24 scans) (**) 2203

**Pyrene**

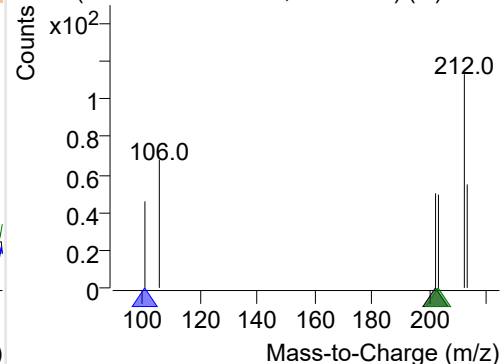
+ Selected Ion (202.0) 220302-PAHs-051.D



202.0, 101.0, 203.0



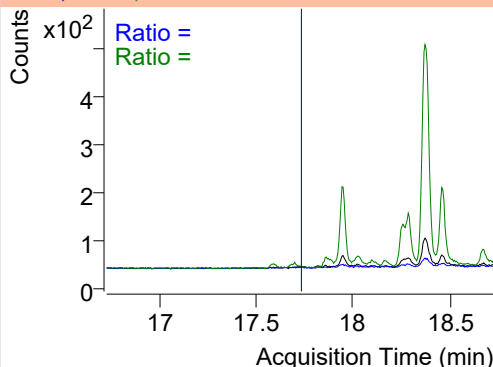
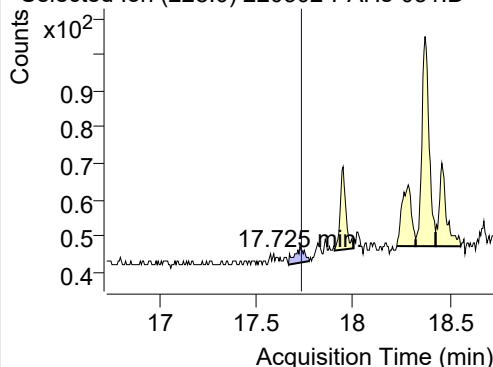
+ SIM (14.787-14.889 min, 19 scans) (**) 2203



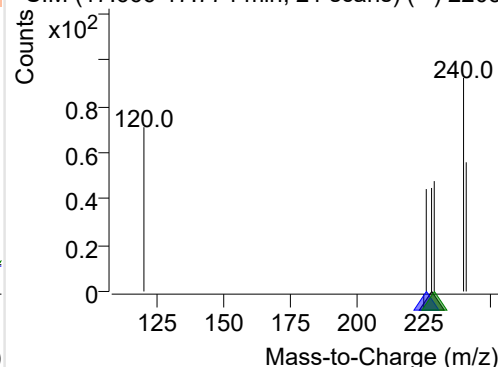
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-051.D

228.0, 226.0, 229.0

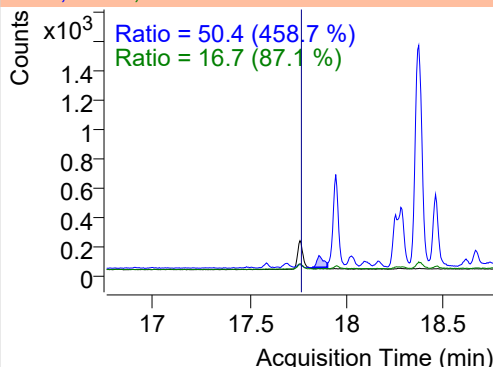
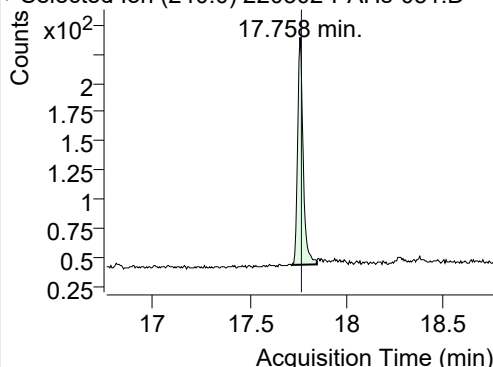


+ SIM (17.666-17.774 min, 21 scans) (**) 2203

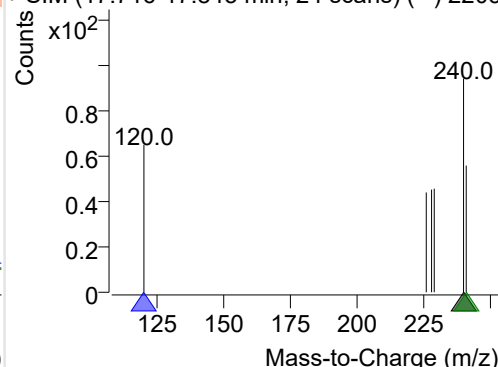
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-051.D

240.0, 120.0, 241.0

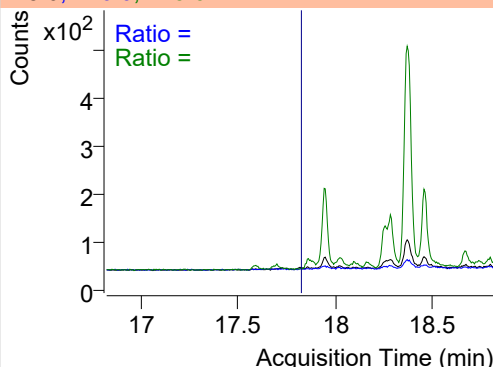
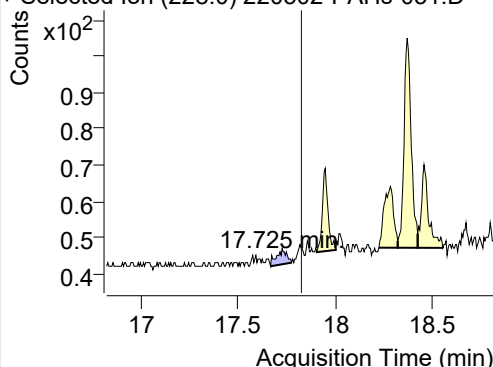


+ SIM (17.716-17.845 min, 24 scans) (**) 2203

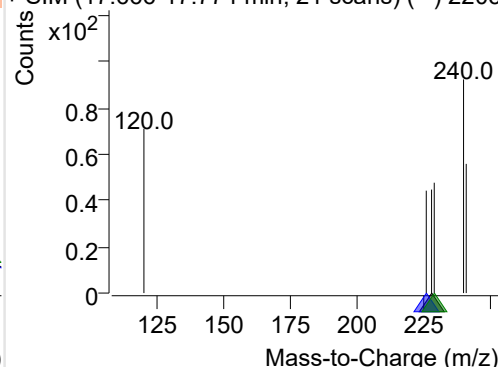
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-051.D

228.0, 226.0, 229.0

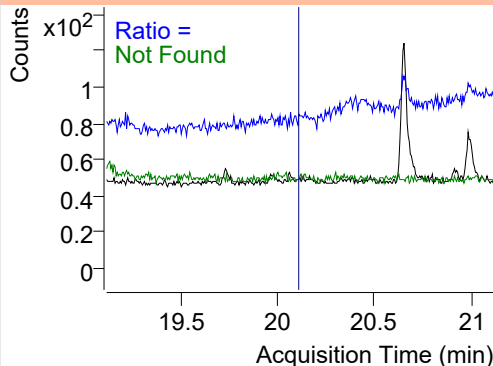
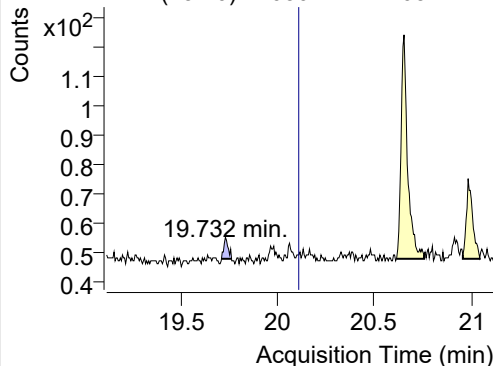


+ SIM (17.666-17.774 min, 21 scans) (**) 2203

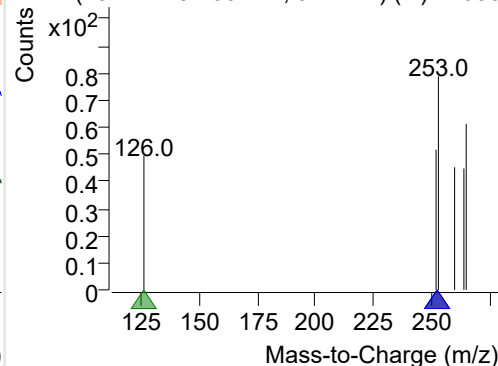
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-051.D

252.0, 253.0, 126.0



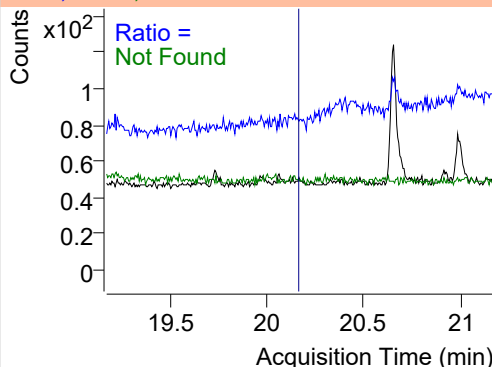
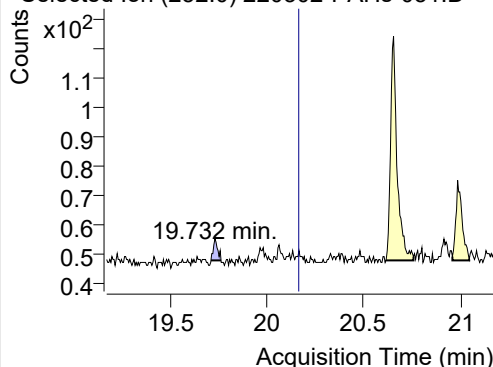
+ SIM (19.711-19.763 min, 9 scans) (**) 22030



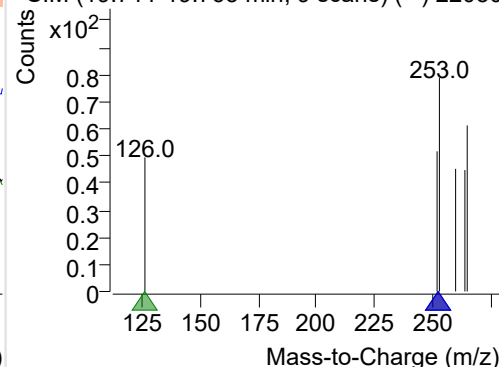
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-051.D

252.0, 253.0, 126.0

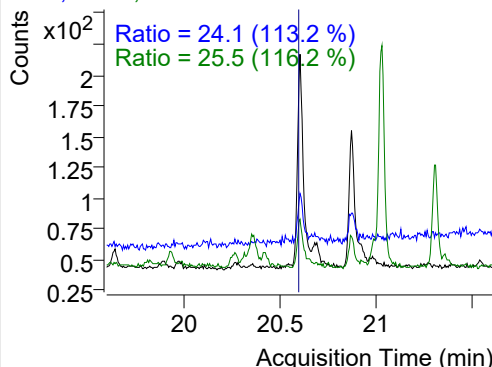
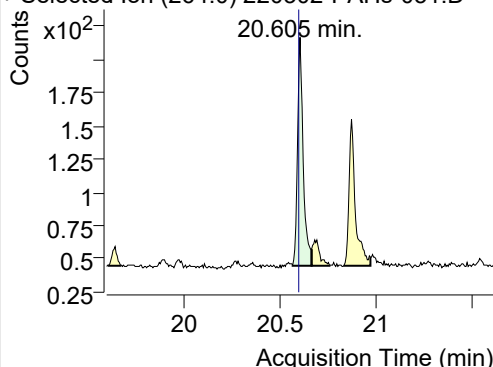


+ SIM (19.711-19.763 min, 9 scans) (**) 22030

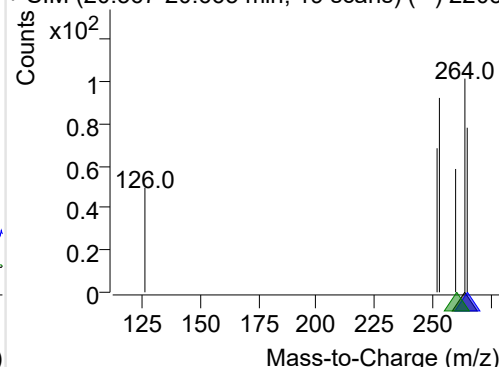
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-051.D

264.0, 265.0, 260.0

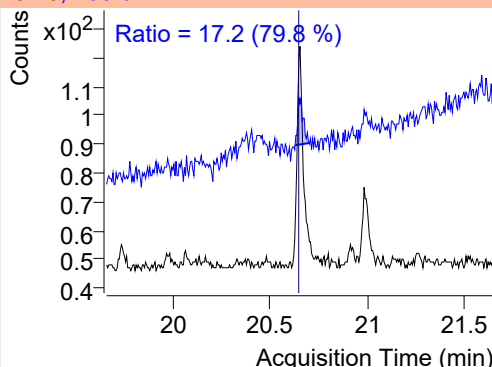
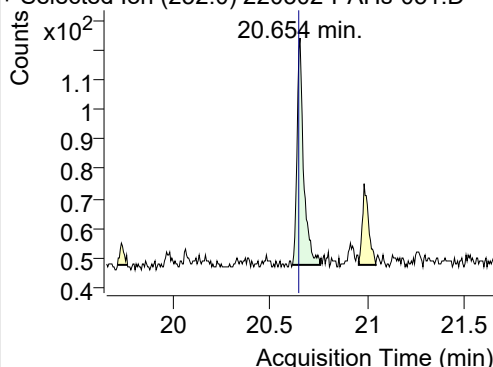


+ SIM (20.567-20.665 min, 19 scans) (**) 2203

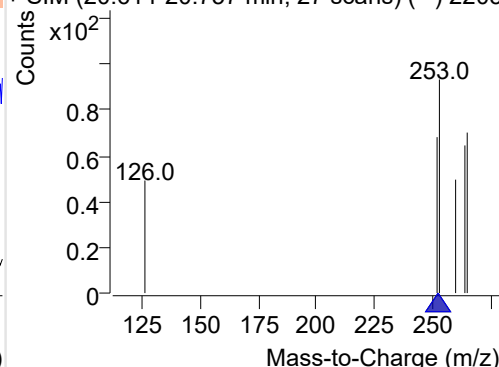
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-051.D

252.0, 253.0

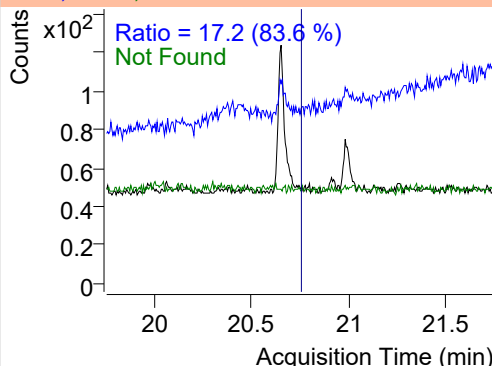
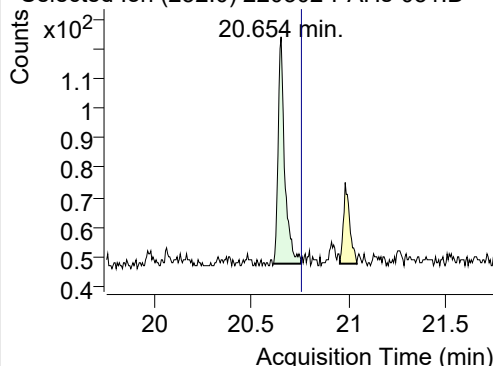


+ SIM (20.614-20.757 min, 27 scans) (**) 2203

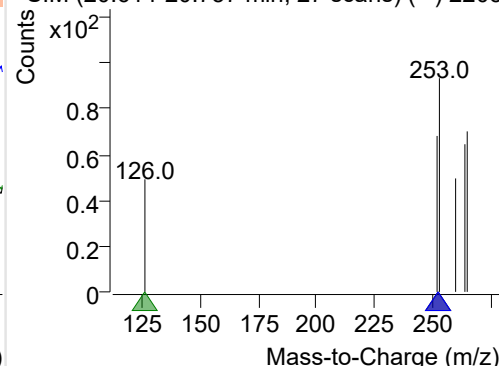
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-051.D

252.0, 253.0, 126.0

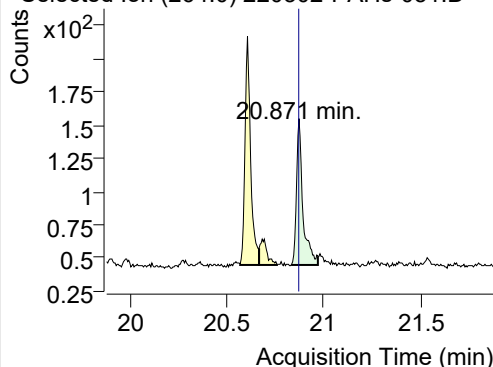


+ SIM (20.614-20.757 min, 27 scans) (**) 2203

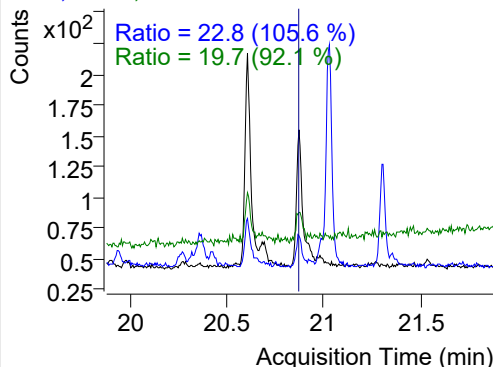


IS-D12-Perylene

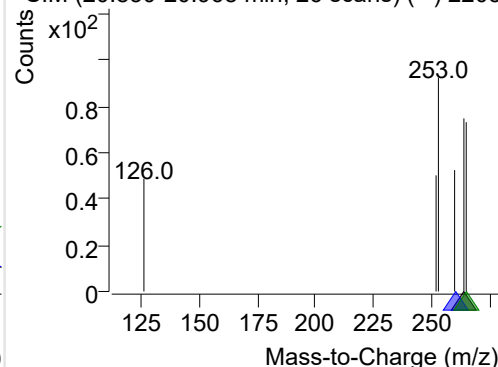
+ Selected Ion (264.0) 220302-PAHs-051.D



264.0, 260.0, 265.0

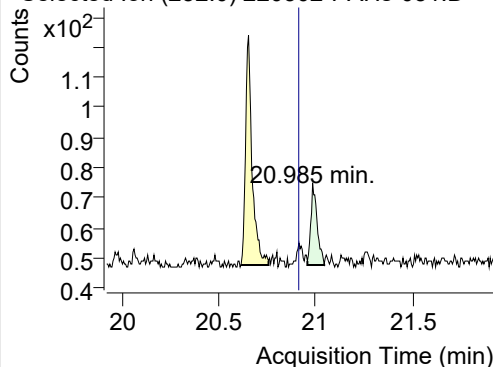


+ SIM (20.830-20.968 min, 26 scans) (**) 2203

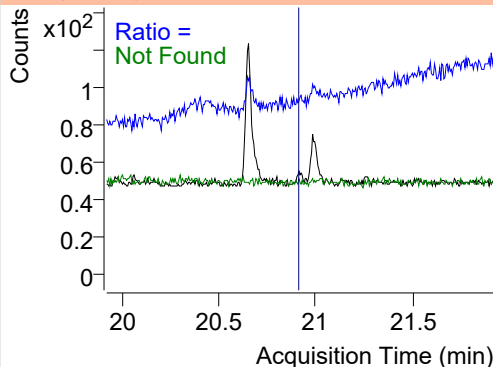


Perylene

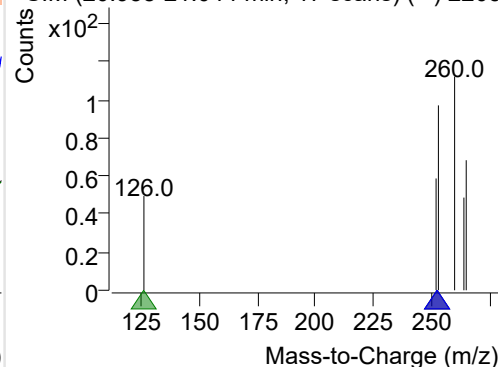
+ Selected Ion (252.0) 220302-PAHs-051.D



252.0, 253.0, 126.0

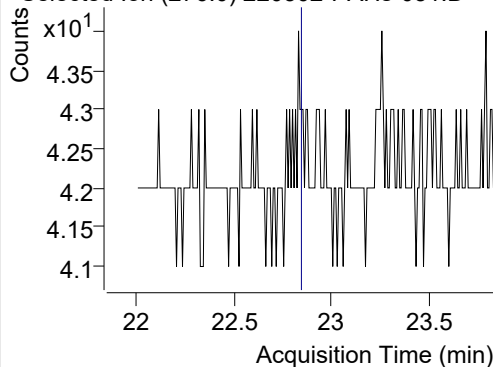


+ SIM (20.958-21.044 min, 17 scans) (**) 2203

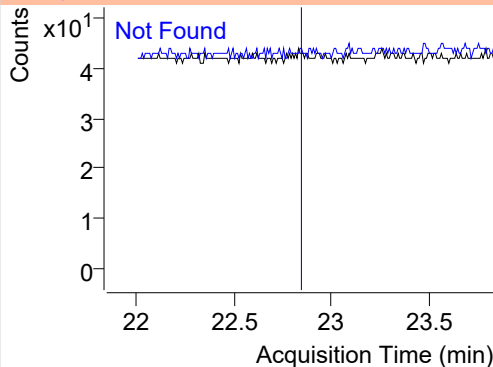


Indeno(1,2,3-c,d)pyrene

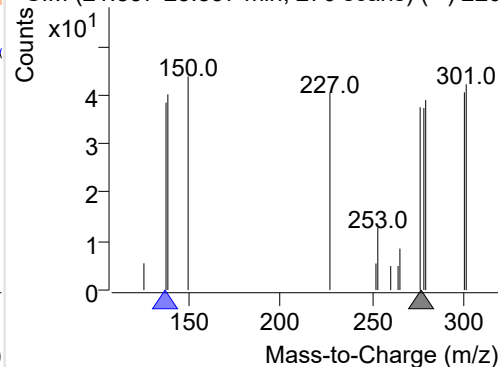
+ Selected Ion (276.0) 220302-PAHs-051.D



276.0, 138.0

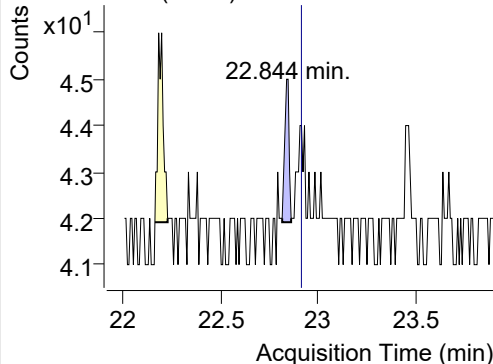


+ SIM (21.837-23.837 min, 270 scans) (**) 220

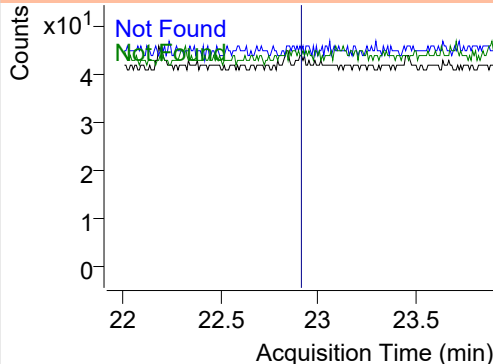


Dibenz(a,h)anthracene

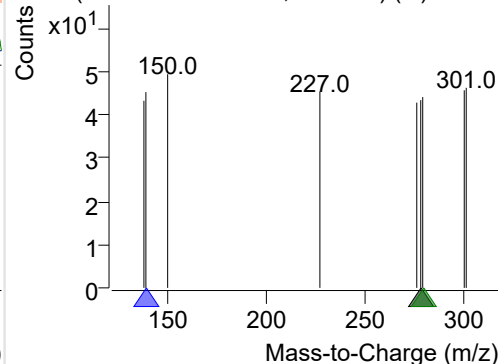
+ Selected Ion (278.0) 220302-PAHs-051.D



278.0, 139.0, 279.0



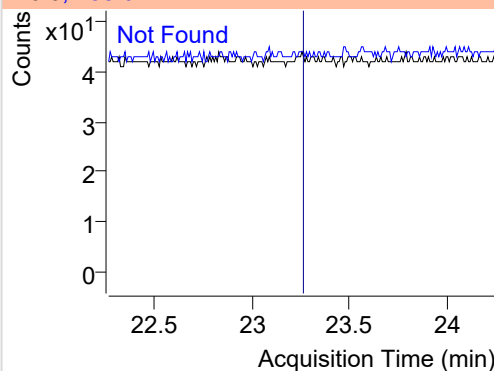
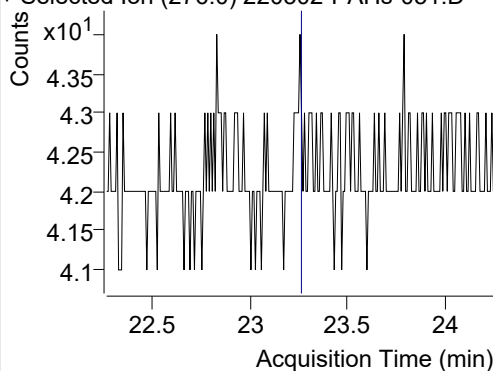
+ SIM (22.814-22.860 min, 7 scans) (**) 22030



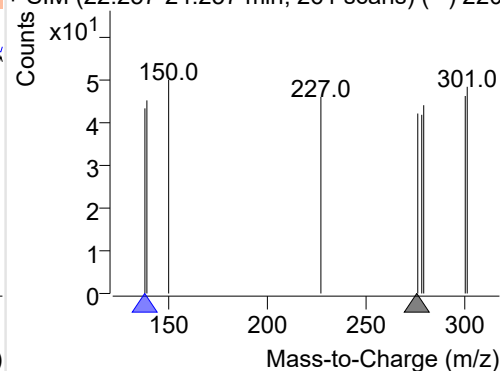
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-051.D

276.0, 138.0

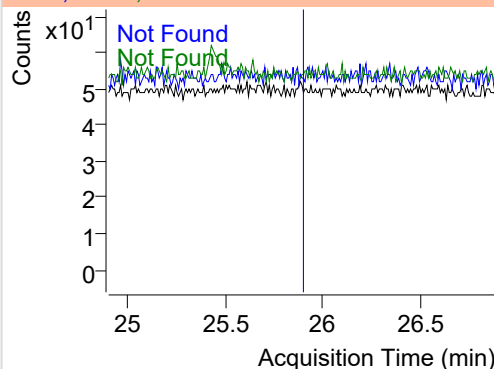
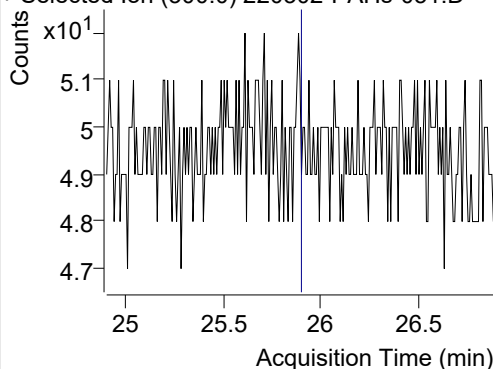


+ SIM (22.257-24.257 min, 261 scans) (**) 220

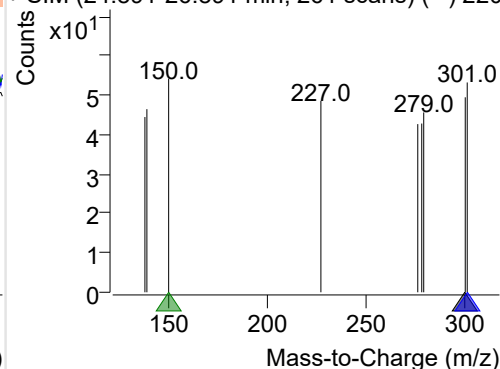
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-051.D

300.0, 301.0, 150.0



+ SIM (24.891-26.891 min, 261 scans) (**) 220



Quantitative Analysis Sample Based Report

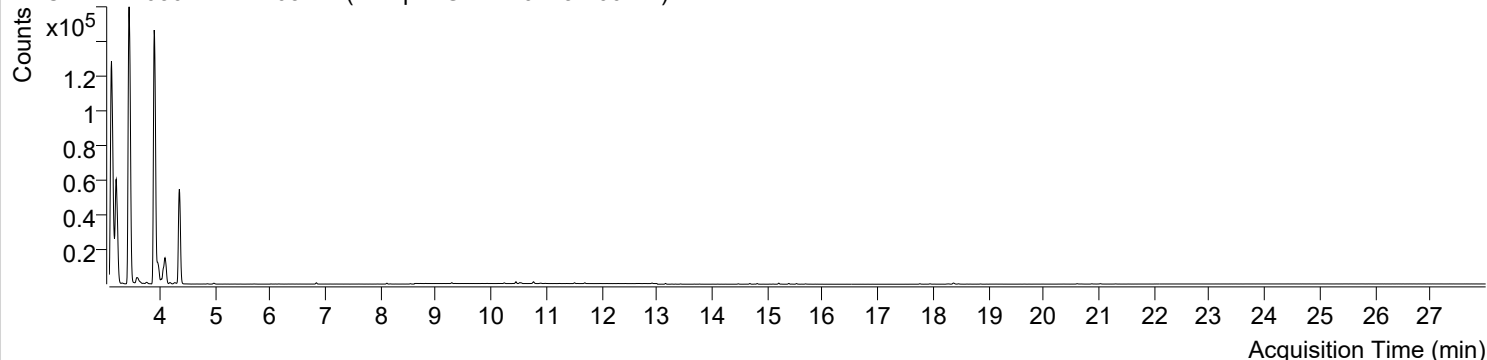


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오후 12:16:39	Data File	220302-PAHs-052.D
Type	Sample	Name	Sample-Gas-220223-100DIL
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

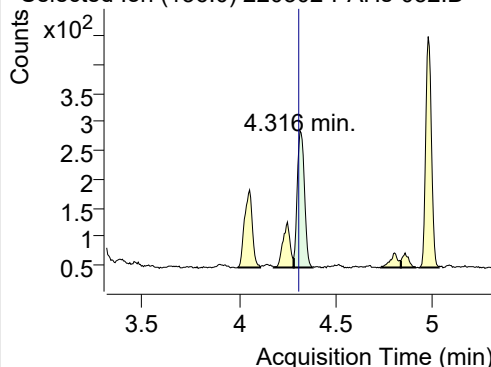
+ TIC SIM 220302-PAHs-052.D (Sample-Gas-220223-100DIL)



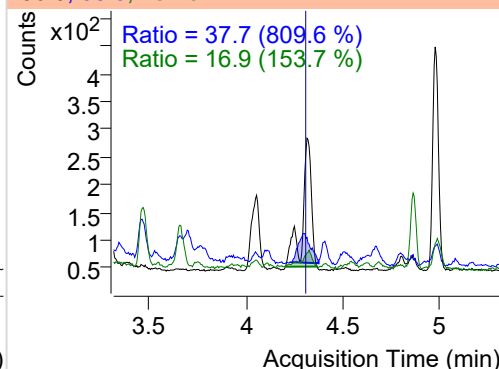
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.316	136.0	617	238.38	ND ng/ml	16.9
Naphthalene	4.354	128.0	111102	44161.89	ND ng/ml	12.9
Acenaphthylene	7.745	152.0	12	8.26	ND ng/ml	
IS-D10-Acenaphthene	8.112	164.0	346	229.55	ND ng/ml	96.7
Acenaphthene	8.177	154.0	44	32.66	ND ng/ml	112.4
LSS-D10-Fluorene	9.281	176.0	350	214.14	ND ng/ml	87.4
Fluorene	9.344	166.0	47	31.55	ND ng/ml	103.6
IS-D10-Phenanthrene	11.508	188.0	593	382.55	ND ng/ml	14.7
Phenanthrene	11.560	178.0	54	34.58	ND ng/ml	12.8
Anthracene	11.697	178.0	191	110.58	ND ng/ml	27.6
Fluoranthene	14.359	202.0	8	6.98	ND ng/ml	
LSS-D10-Pyrene	14.814	212.0	450	274.85	ND ng/ml	17.7
Pyrene	14.847	202.0	14	9.98	ND ng/ml	
Benz(a)anthracene	17.807	228.0	4	4.09	ND ng/ml	
IS-D12-Chrysene	17.758	240.0	367	186.93	ND ng/ml	16.8
Chrysene	17.807	228.0	4	4.09	ND ng/ml	
Benzo(b)fluoranthene	19.976	252.0	6	4.36	ND ng/ml	
Benzo(k)fluoranthene	19.976	252.0	6	4.36	ND ng/ml	
SS-D12-Benzo(e)pyrene	20.605	264.0	317	149.45	ND ng/ml	24.7
Benzo(e)pyrene	20.654	252.0	76	21.91	ND ng/ml	
Benzo(a)pyrene	20.654	252.0	76	21.91	ND ng/ml	
IS-D12-Perylene	20.871	264.0	273	109.99	ND ng/ml	16.0
Perylene	20.920	252.0	23	12.02	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		300.0			ND ng/ml	

IS-D8-Naphthalene

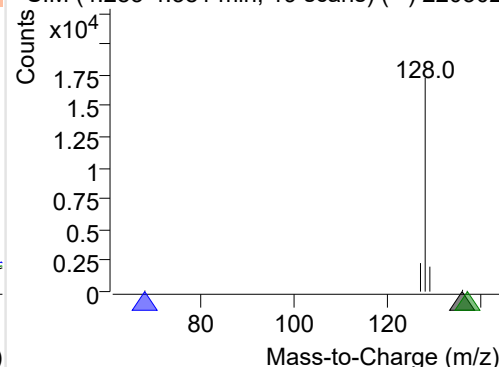
+ Selected Ion (136.0) 220302-PAHs-052.D



136.0, 68.0, 137.0

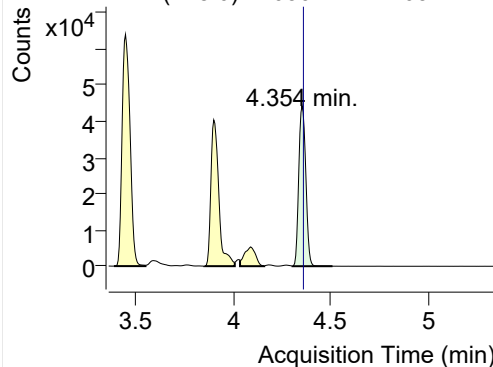


+ SIM (4.283-4.381 min, 19 scans) (**) 220302

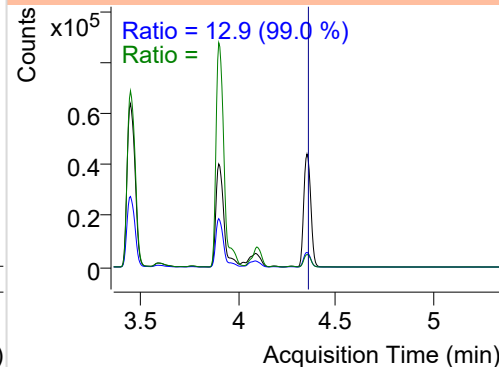


Naphthalene

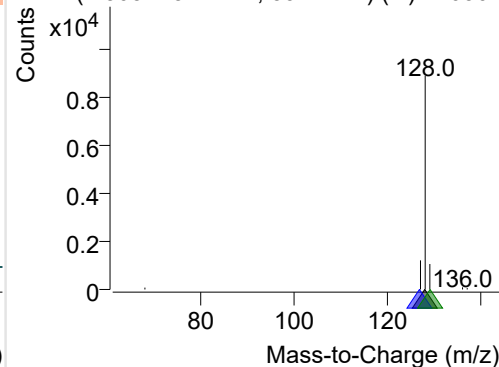
+ Selected Ion (128.0) 220302-PAHs-052.D



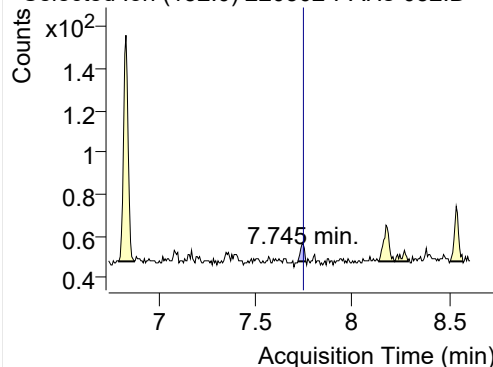
128.0, 127.0, 129.0



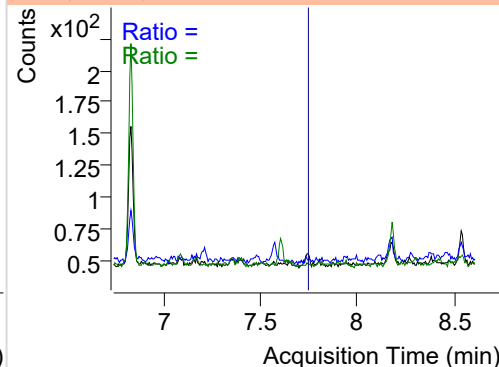
+ SIM (4.305-4.511 min, 39 scans) (**) 220302

**Acenaphthylene**

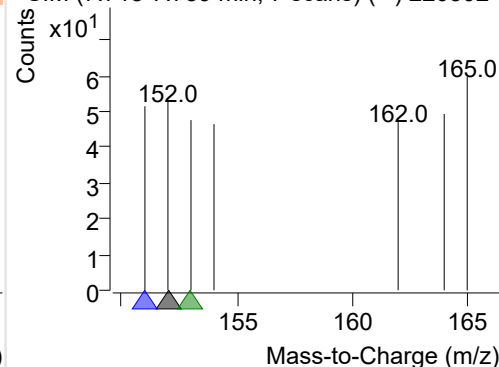
+ Selected Ion (152.0) 220302-PAHs-052.D



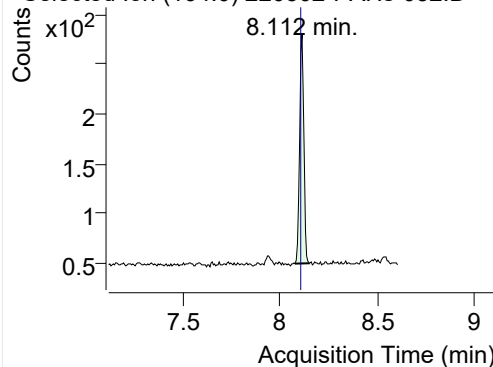
152.0, 151.0, 153.0



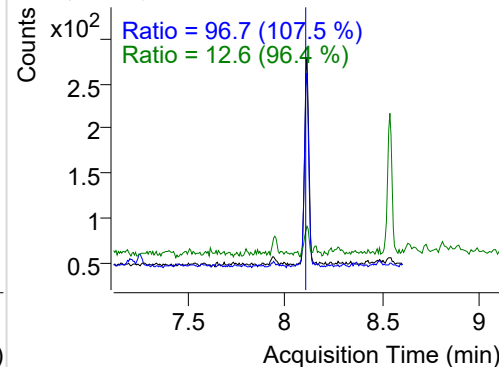
+ SIM (7.718-7.759 min, 7 scans) (**) 220302-I

**IS-D10-Acenaphthene**

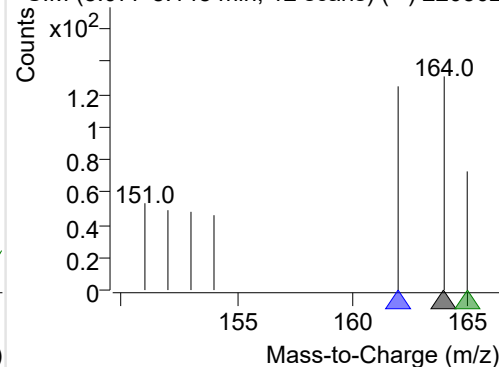
+ Selected Ion (164.0) 220302-PAHs-052.D



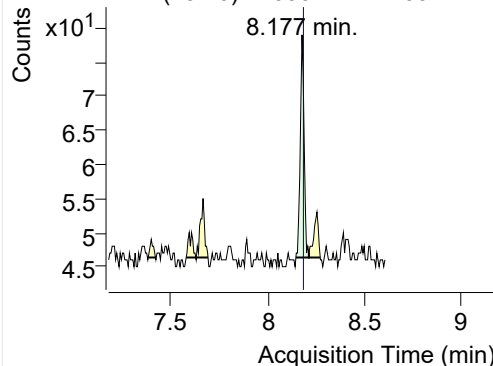
164.0, 162.0, 165.0



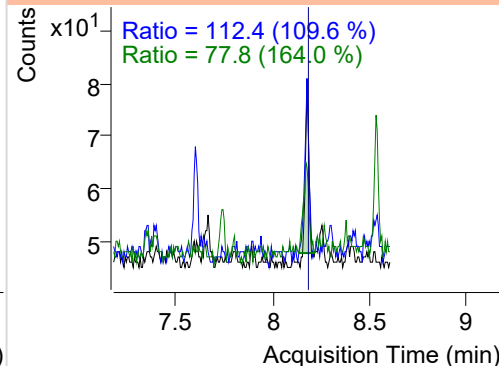
+ SIM (8.077-8.148 min, 12 scans) (**) 220302

**Acenaphthene**

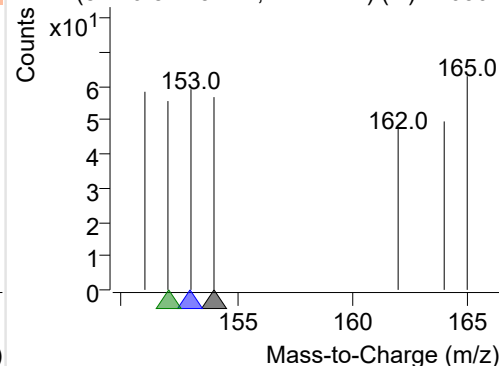
+ Selected Ion (154.0) 220302-PAHs-052.D



154.0, 153.0, 152.0

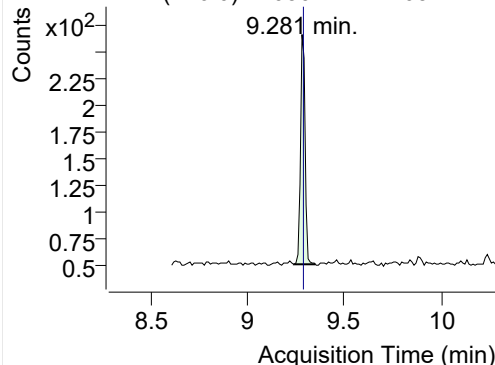


+ SIM (8.146-8.213 min, 12 scans) (**) 220302

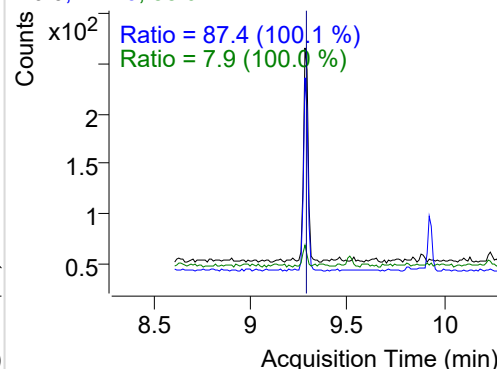


LSS-D10-Fluorene

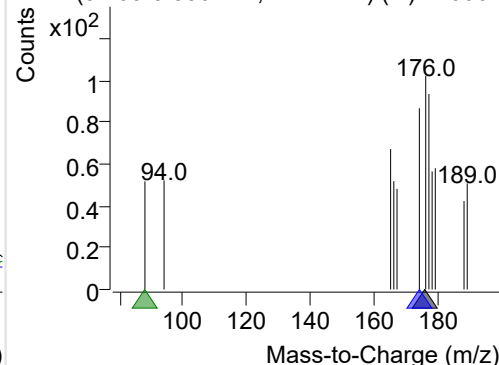
+ Selected Ion (176.0) 220302-PAHs-052.D



176.0, 174.0, 88.0

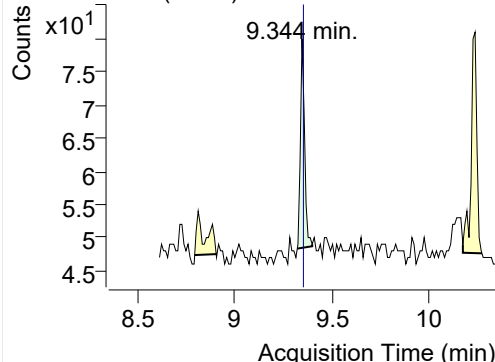


+ SIM (9.239-9.350 min, 11 scans) (**) 220302

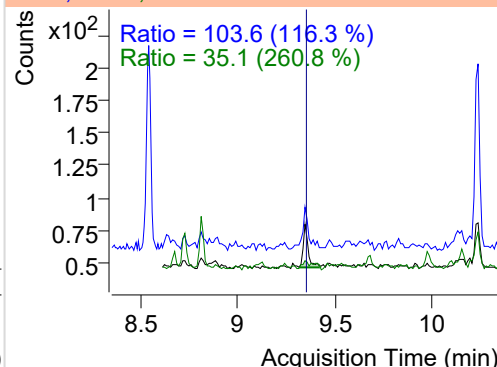


Fluorene

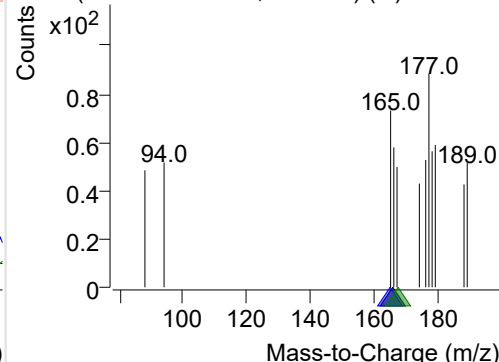
+ Selected Ion (166.0) 220302-PAHs-052.D



166.0, 165.0, 167.0

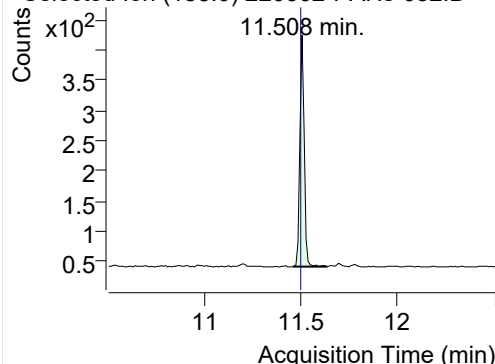


+ SIM (9.320-9.397 min, 8 scans) (**) 220302-I

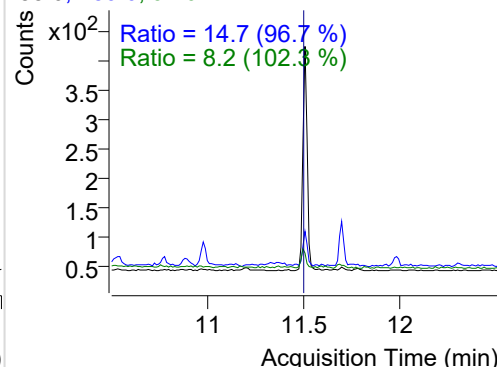


IS-D10-Phenanthrene

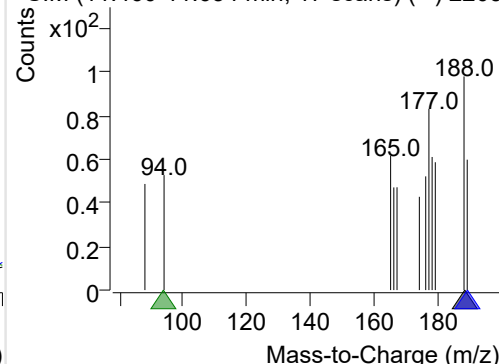
+ Selected Ion (188.0) 220302-PAHs-052.D



188.0, 189.0, 94.0

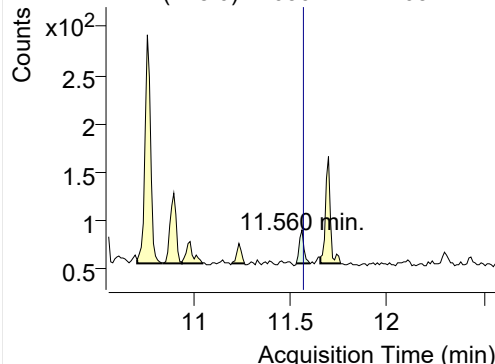


+ SIM (11.460-11.634 min, 17 scans) (**) 2203

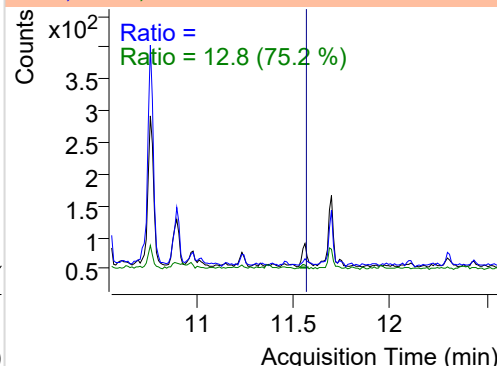


Phenanthrene

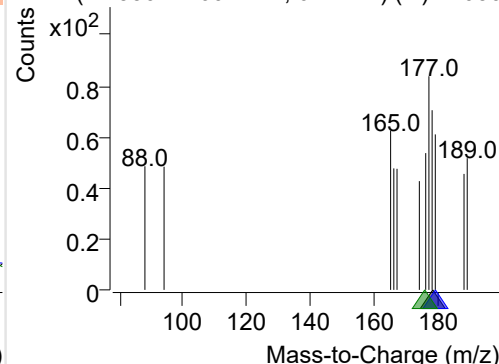
+ Selected Ion (178.0) 220302-PAHs-052.D



178.0, 179.0, 176.0

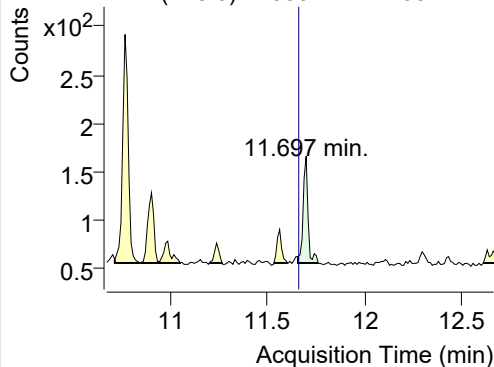


+ SIM (11.530-11.601 min, 6 scans) (**) 22030

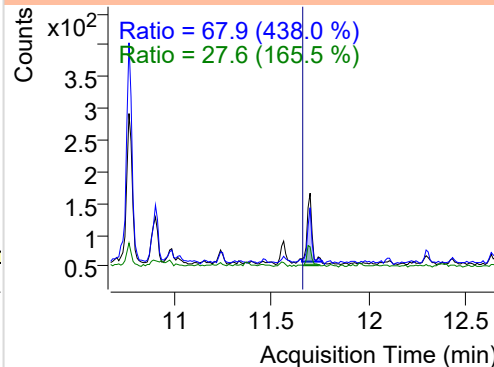


Anthracene

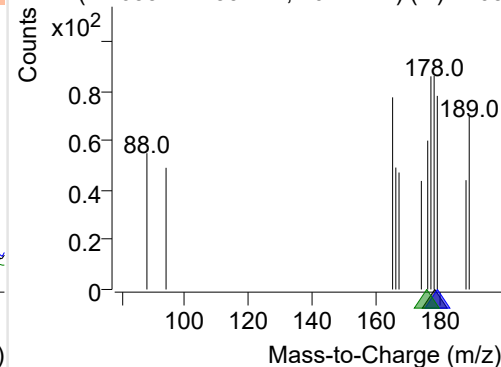
+ Selected Ion (178.0) 220302-PAHs-052.D



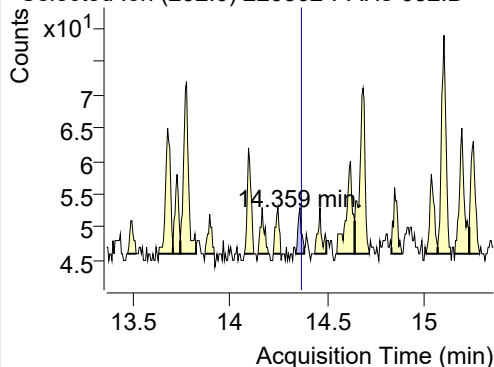
178.0, 179.0, 176.0



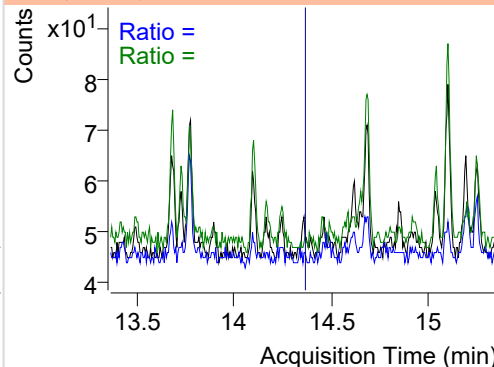
+ SIM (11.655-11.759 min, 10 scans) (**) 2203

**Fluoranthene**

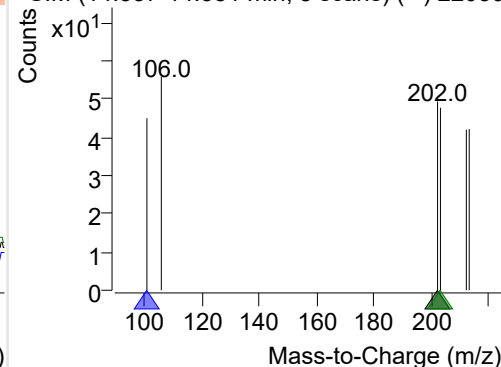
+ Selected Ion (202.0) 220302-PAHs-052.D



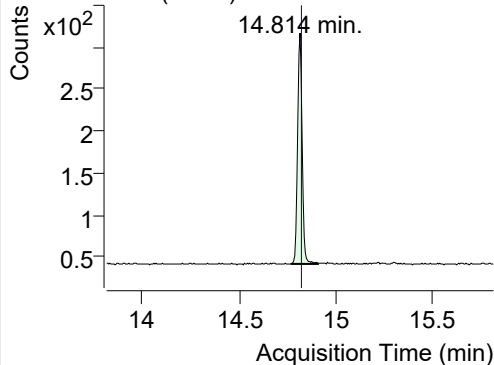
202.0, 101.0, 203.0



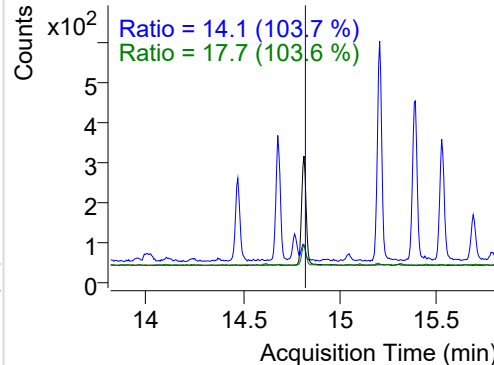
+ SIM (14.337-14.381 min, 8 scans) (**) 22030

**LSS-D10-Pyrene**

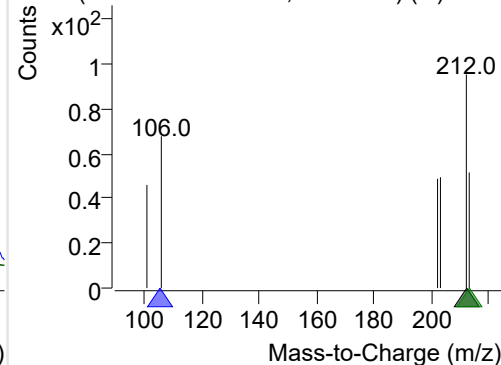
+ Selected Ion (212.0) 220302-PAHs-052.D



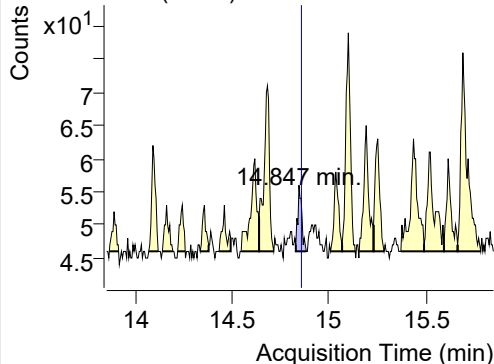
212.0, 106.0, 213.0



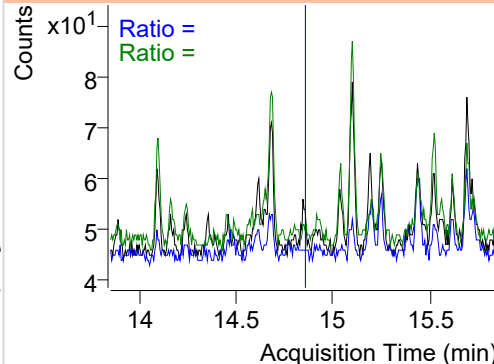
+ SIM (14.766-14.906 min, 26 scans) (**) 2203

**Pyrene**

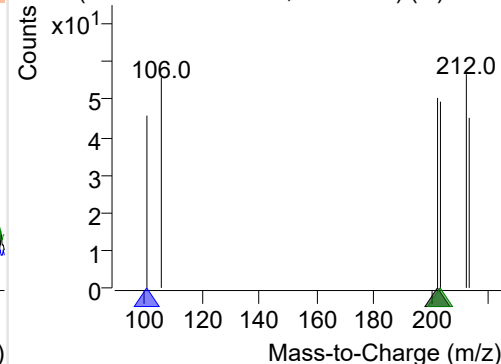
+ Selected Ion (202.0) 220302-PAHs-052.D



202.0, 101.0, 203.0



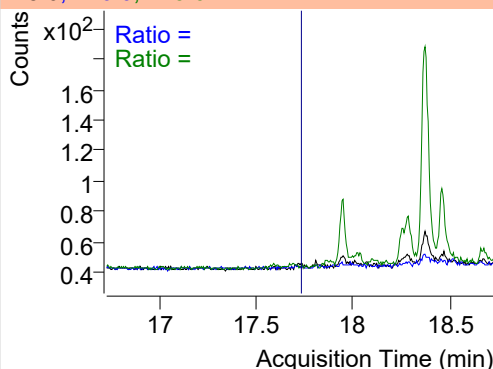
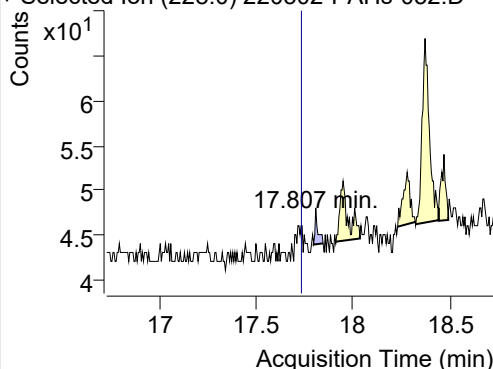
+ SIM (14.831-14.885 min, 10 scans) (**) 2203



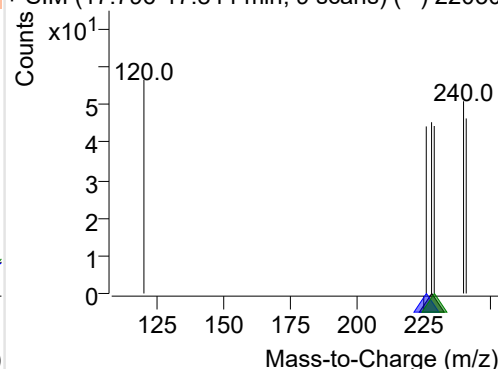
Benz(a)anthracene

+ Selected Ion (228.0) 220302-PAHs-052.D

228.0, 226.0, 229.0

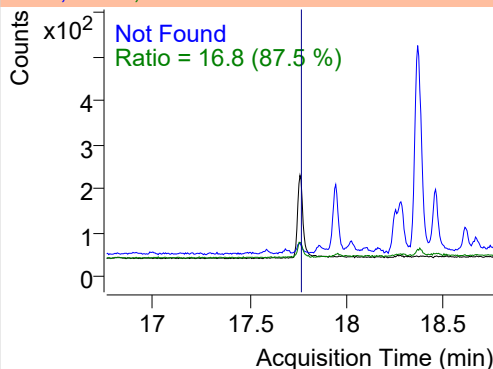
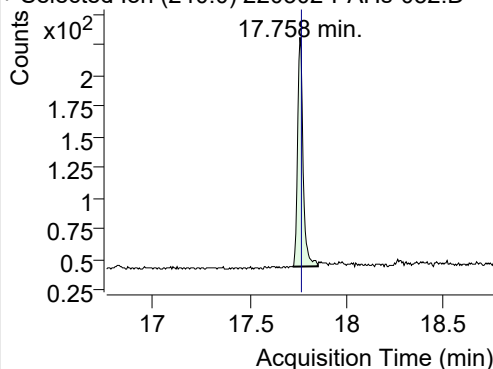


+ SIM (17.796-17.844 min, 9 scans) (**) 22030

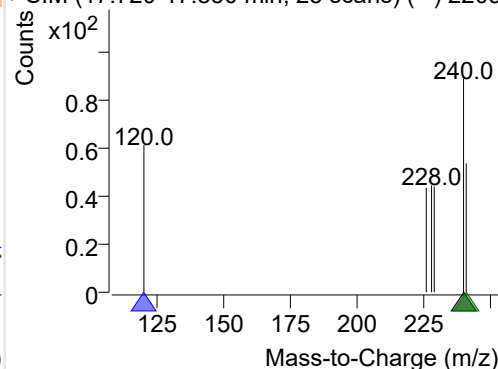
**IS-D12-Chrysene**

+ Selected Ion (240.0) 220302-PAHs-052.D

240.0, 120.0, 241.0

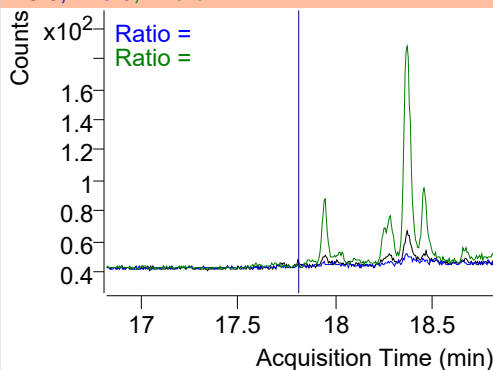
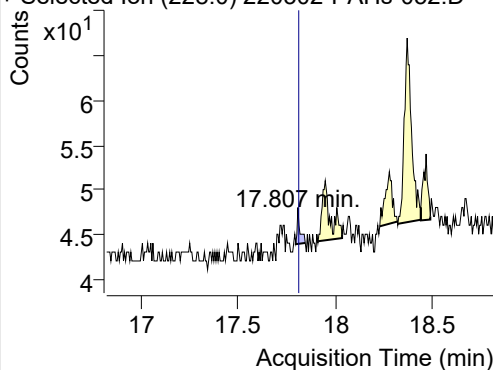


+ SIM (17.720-17.850 min, 25 scans) (**) 2203

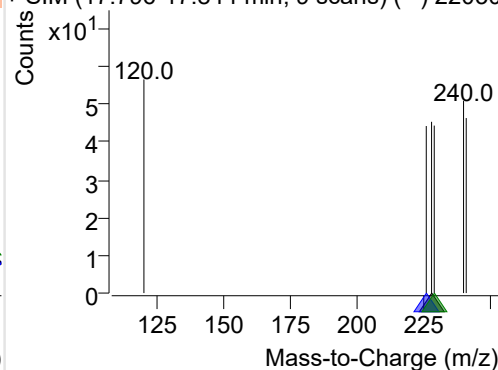
**Chrysene**

+ Selected Ion (228.0) 220302-PAHs-052.D

228.0, 226.0, 229.0

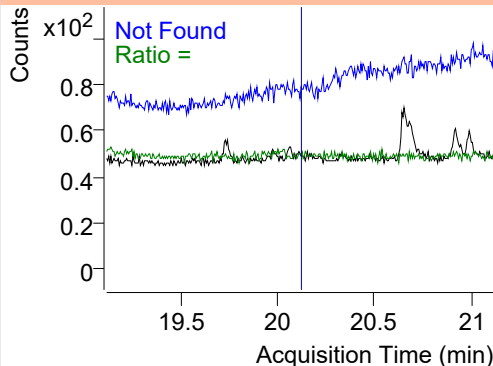
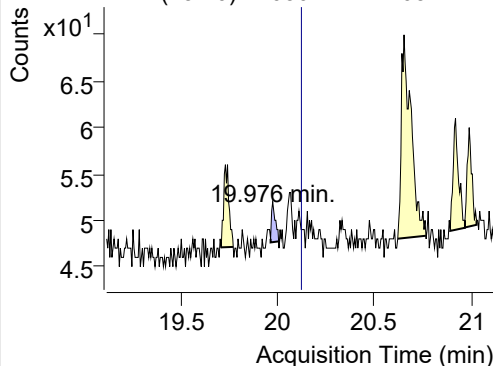


+ SIM (17.796-17.844 min, 9 scans) (**) 22030

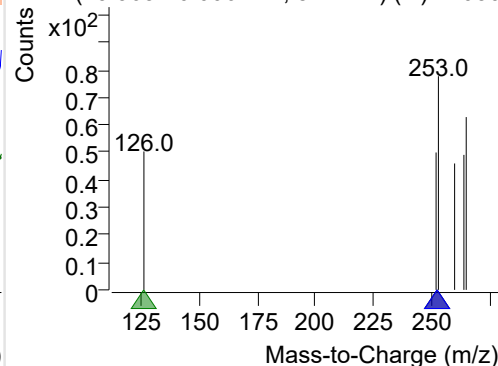
**Benzo(b)fluoranthene**

+ Selected Ion (252.0) 220302-PAHs-052.D

252.0, 253.0, 126.0



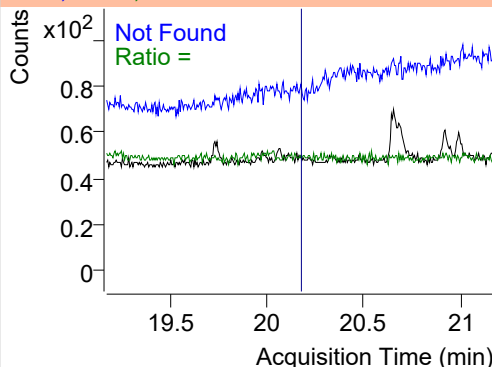
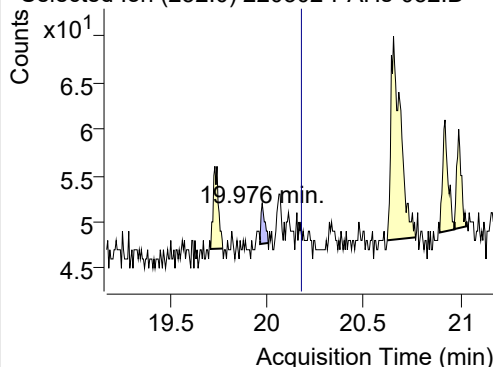
+ SIM (19.965-20.006 min, 8 scans) (**) 22030



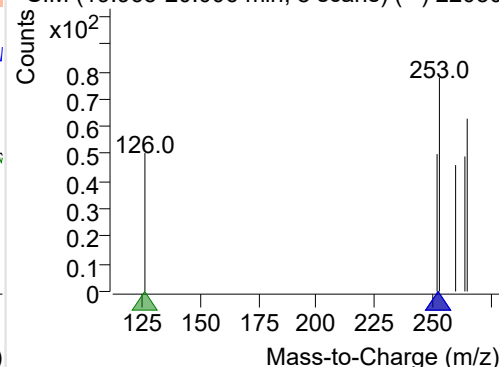
Benzo(k)fluoranthene

+ Selected Ion (252.0) 220302-PAHs-052.D

252.0, 253.0, 126.0

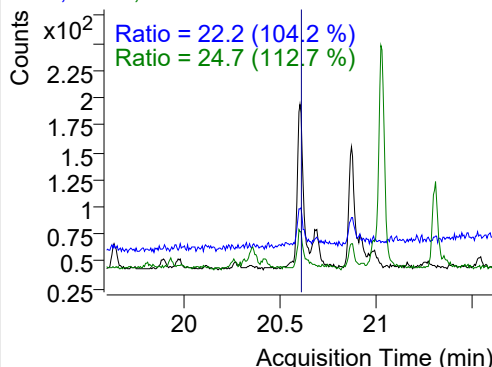
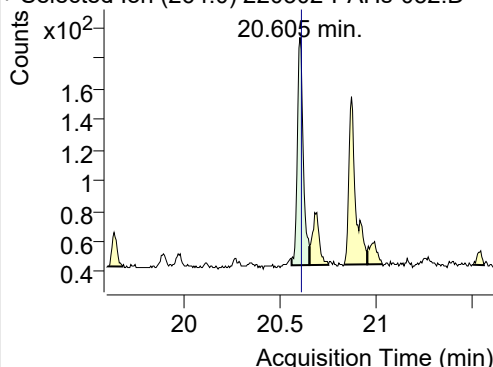


+ SIM (19.965-20.006 min, 8 scans) (**) 22030

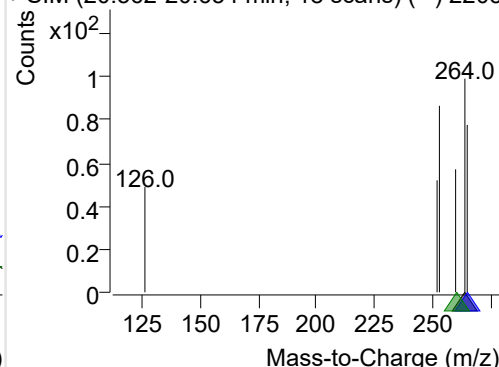
**SS-D12-Benzo(e)pyrene**

+ Selected Ion (264.0) 220302-PAHs-052.D

264.0, 265.0, 260.0

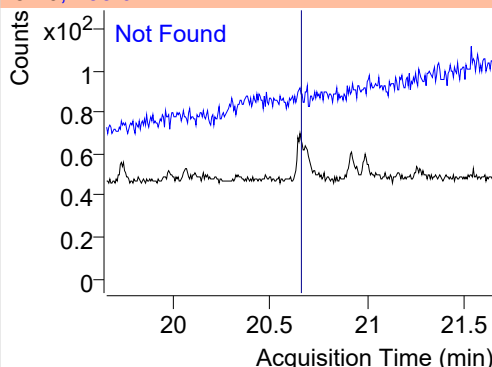
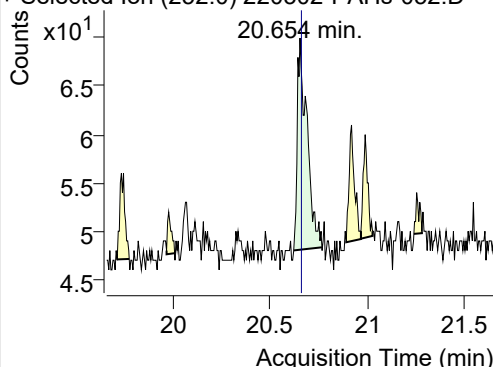


+ SIM (20.562-20.654 min, 18 scans) (**) 2203

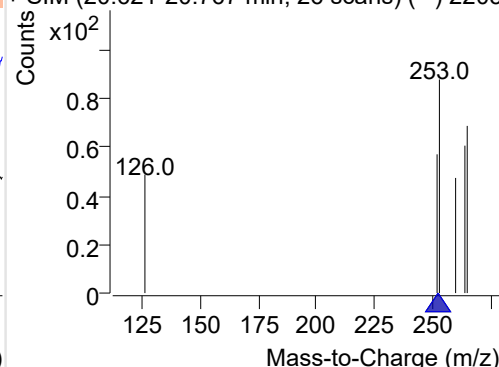
**Benzo(e)pyrene**

+ Selected Ion (252.0) 220302-PAHs-052.D

252.0, 253.0

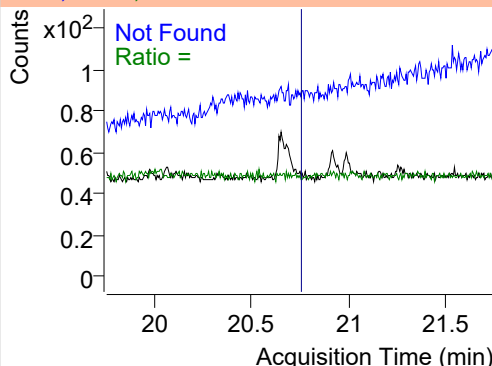
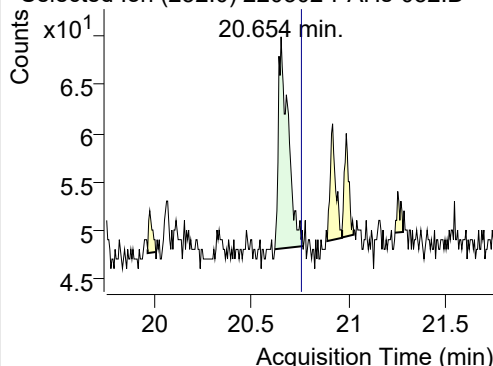


+ SIM (20.621-20.767 min, 26 scans) (**) 2203

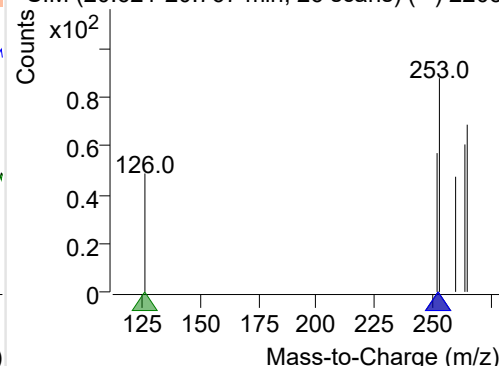
**Benzo(a)pyrene**

+ Selected Ion (252.0) 220302-PAHs-052.D

252.0, 253.0, 126.0



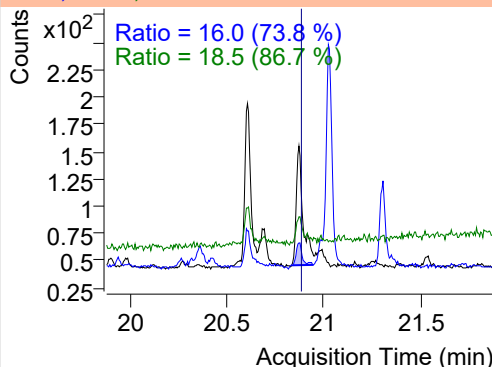
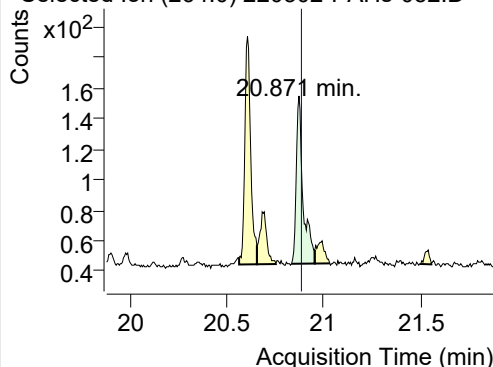
+ SIM (20.621-20.767 min, 26 scans) (**) 2203



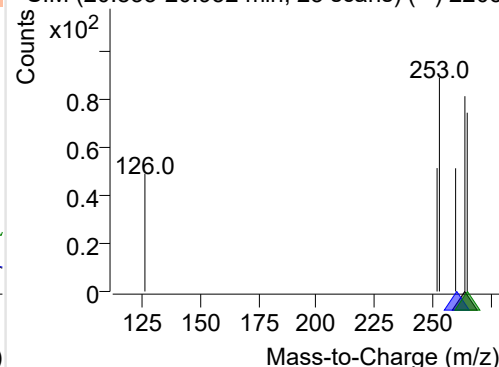
IS-D12-Perylene

+ Selected Ion (264.0) 220302-PAHs-052.D

264.0, 260.0, 265.0



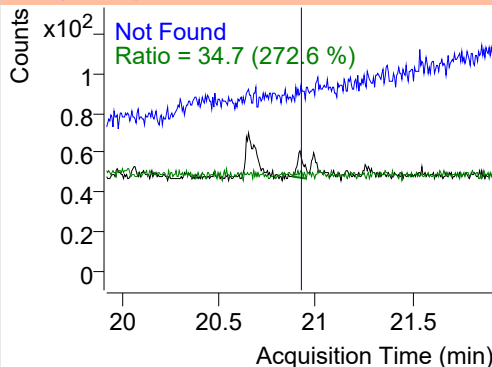
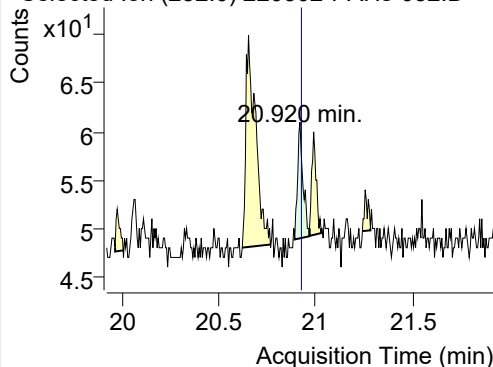
+ SIM (20.833-20.952 min, 23 scans) (**) 2203



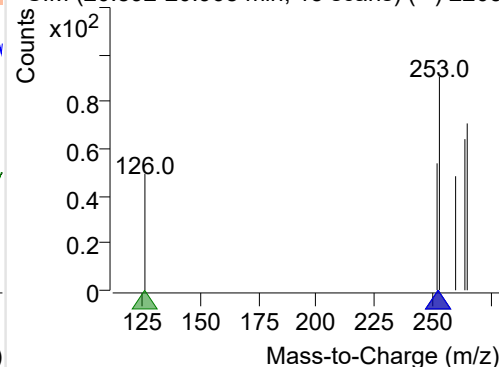
Perylene

+ Selected Ion (252.0) 220302-PAHs-052.D

252.0, 253.0, 126.0



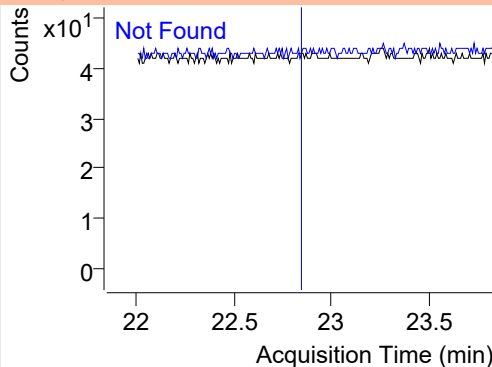
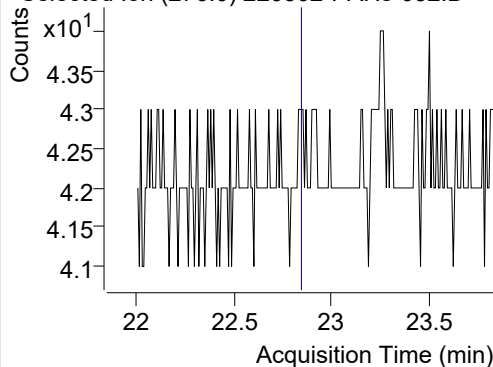
+ SIM (20.892-20.968 min, 15 scans) (**) 2203



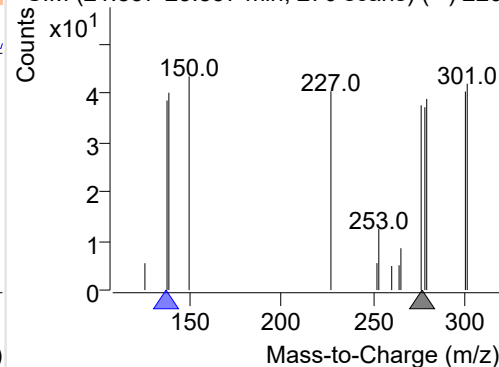
Indeno(1,2,3-c,d)pyrene

+ Selected Ion (276.0) 220302-PAHs-052.D

276.0, 138.0



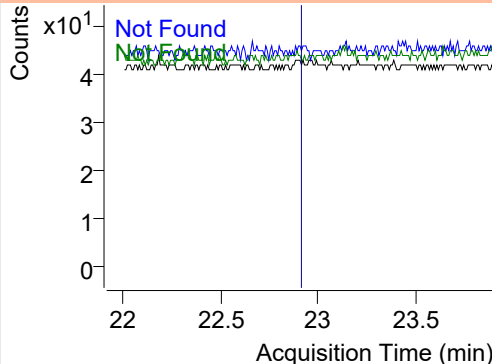
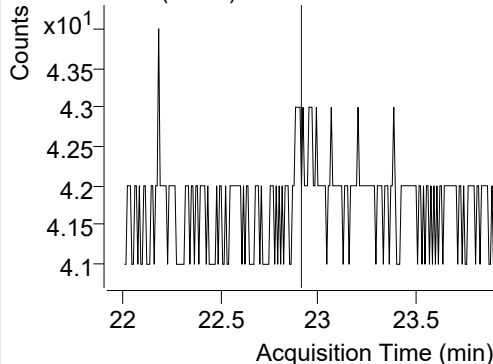
+ SIM (21.837-23.837 min, 270 scans) (**) 220



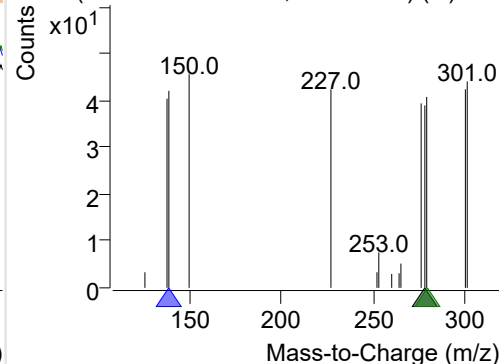
Dibenz(a,h)anthracene

+ Selected Ion (278.0) 220302-PAHs-052.D

278.0, 139.0, 279.0



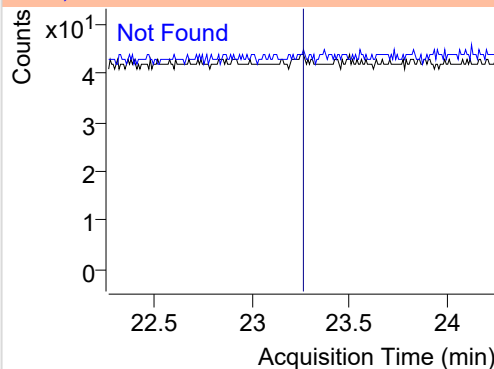
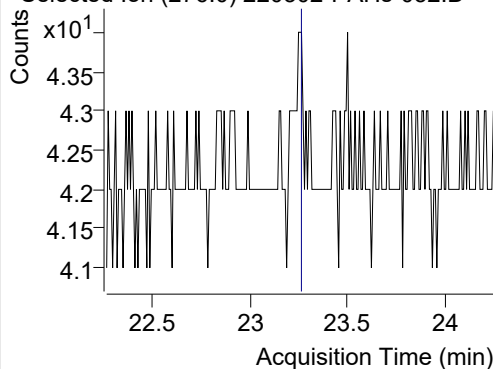
+ SIM (21.906-23.906 min, 267 scans) (**) 220



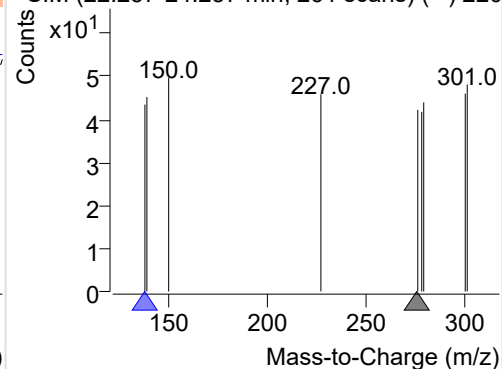
Benzo(g,h,i)perylene

+ Selected Ion (276.0) 220302-PAHs-052.D

276.0, 138.0

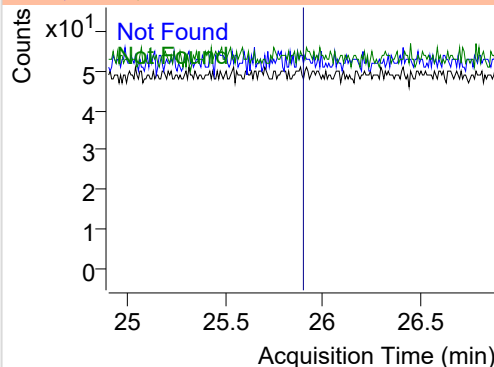
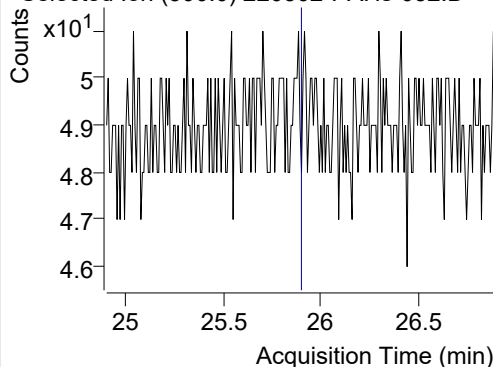


+ SIM (22.257-24.257 min, 261 scans) (**) 220

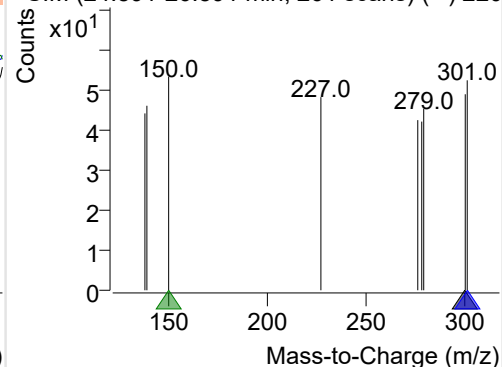
**Coronene**

+ Selected Ion (300.0) 220302-PAHs-052.D

300.0, 301.0, 150.0



+ SIM (24.891-26.891 min, 261 scans) (**) 220



Quantitative Analysis Sample Based Report

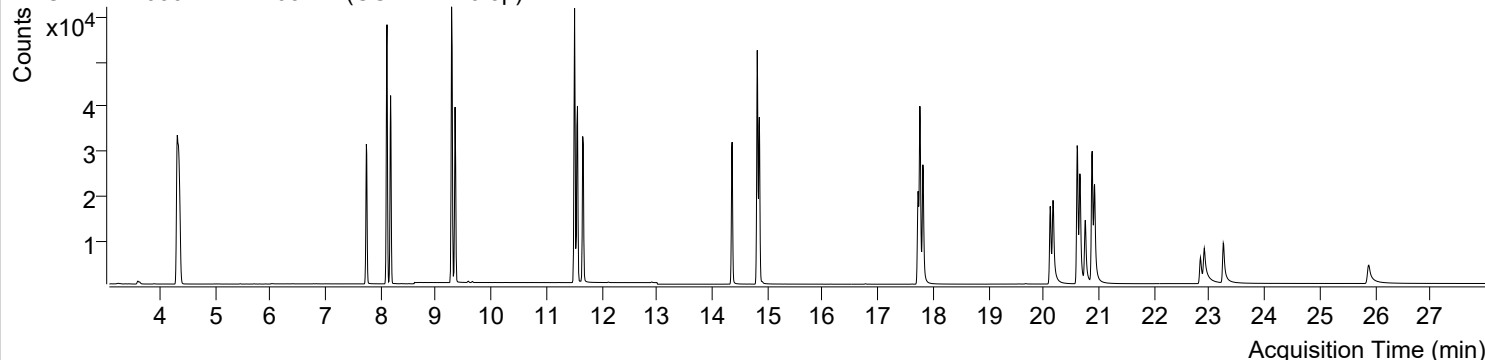


Trusted Answers

Batch Data Path File Name	D:\MassHunter\GCMS\1\data\PAHs\220302-PAHs-Sample\QuantResults\220302-PAHs-Quant.batch.bin		
Analysis Time Stamp	2022-04-13 오후 5:00:16	Analyst Name	DESKTOP-86B7UPG\5975MS
Report Generation Time	2022-04-13 오후 5:00:25	Report Generator Name	DESKTOP-86B7UPG\5975MS
Calibration Last Update	2022-04-13 오후 5:00:16	Batch State	Processed
Analyze Quant Version	10.2	Report Quant Version	10.2
Acq. Date-Time	2022-03-03 오후 1:18:56	Data File	220302-PAHs-054.D
Type	Sample	Name	CCV-STD-0.5p
Dil.	1	Acq. Method File	PAHs 19mix-Method

Sample Chromatogram

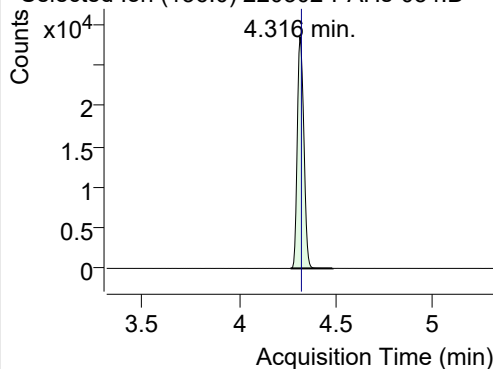
+ TIC SIM 220302-PAHs-054.D (CCV-STD-0.5p)



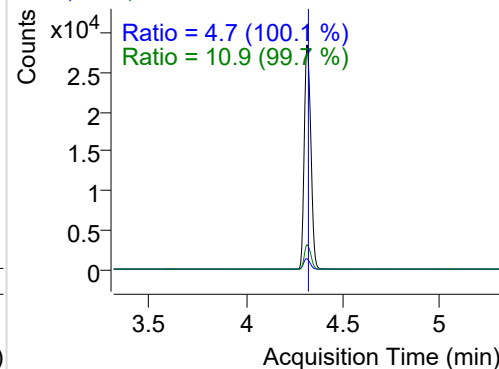
Name	RT	Transition	Resp.	Height	Final Conc. Units	Ratio
IS-D8-Naphthalene	4.316	136.0	66871	28482.63	ND ng/ml	10.9
Naphthalene	4.354	128.0	41588	17293.50	ND ng/ml	12.9
Acenaphthylene	7.739	152.0	35223	23440.85	ND ng/ml	19.2
IS-D10-Acenaphthene	8.112	164.0	41884	28944.32	ND ng/ml	88.3
Acenaphthene	8.177	154.0	23131	15689.77	ND ng/ml	101.1
LSS-D10-Fluorene	9.281	176.0	45966	29001.47	ND ng/ml	85.3
Fluorene	9.344	166.0	28268	19088.82	ND ng/ml	88.8
IS-D10-Phenanthrene	11.508	188.0	73738	50266.02	ND ng/ml	15.1
Phenanthrene	11.560	178.0	42543	26748.00	ND ng/ml	16.9
Anthracene	11.655	178.0	36939	21688.73	ND ng/ml	16.5
Fluoranthene	14.359	202.0	39072	25014.22	ND ng/ml	17.3
LSS-D10-Pyrene	14.814	212.0	61474	39868.25	ND ng/ml	16.9
Pyrene	14.852	202.0	45646	28452.76	ND ng/ml	17.5
Benz(a)anthracene	17.725	228.0	27478	14211.20	ND ng/ml	23.3
IS-D12-Chrysene	17.758	240.0	54863	28828.44	ND ng/ml	19.1
Chrysene	17.812	228.0	34489	17316.77	ND ng/ml	25.9
Benzo(b)fluoranthene	20.117	252.0	24808	12991.67	ND ng/ml	21.6
Benzo(k)fluoranthene	20.171	252.0	37535	13867.67	ND ng/ml	21.8
SS-D12-Benzo(e)pyrene	20.605	264.0	47050	21274.05	ND ng/ml	22.4
Benzo(e)pyrene	20.654	252.0	34864	16244.97	ND ng/ml	21.8
Benzo(a)pyrene	20.751	252.0	25221	10152.09	ND ng/ml	21.0
IS-D12-Perylene	20.876	264.0	45747	20101.86	ND ng/ml	21.4
Perylene	20.920	252.0	31676	13619.27	ND ng/ml	21.7
Indeno(1,2,3-c,d)pyrene	22.837	276.0	12470	4812.00	ND ng/ml	16.5
Dibenz(a,h)anthracene	22.905	278.0	15648	3964.35	ND ng/ml	23.9
Benzo(g,h,i)perylene	23.249	276.0	23674	7236.15	ND ng/ml	18.3
Coronene	25.883	300.0	14845	2719.46	ND ng/ml	24.5

IS-D8-Naphthalene

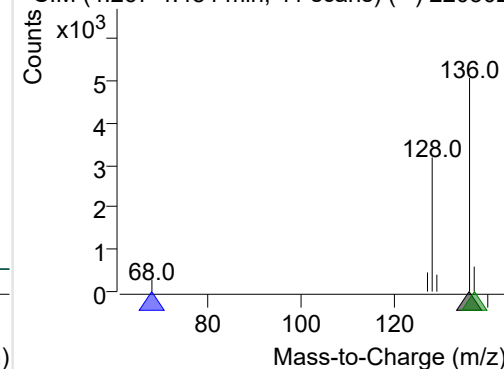
+ Selected Ion (136.0) 220302-PAHs-054.D



136.0, 68.0, 137.0

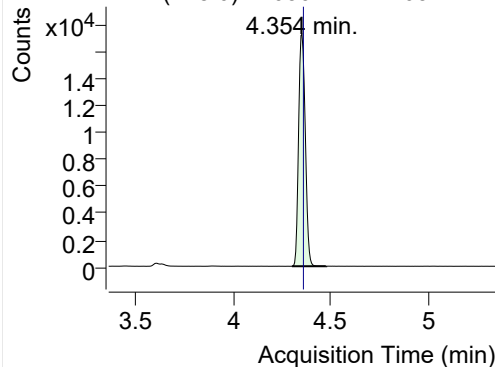


+ SIM (4.267-4.484 min, 41 scans) (**) 220302

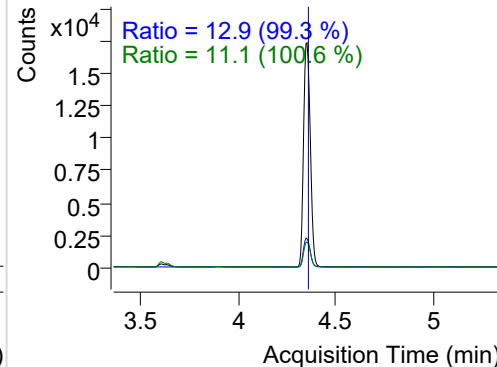


Naphthalene

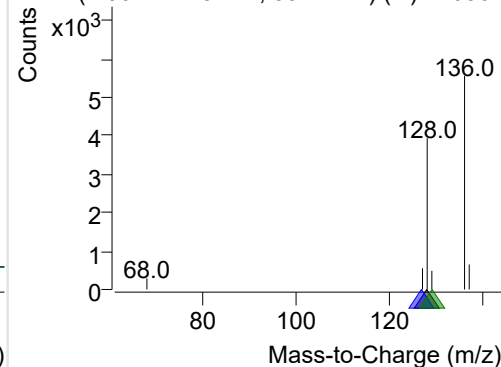
+ Selected Ion (128.0) 220302-PAHs-054.D



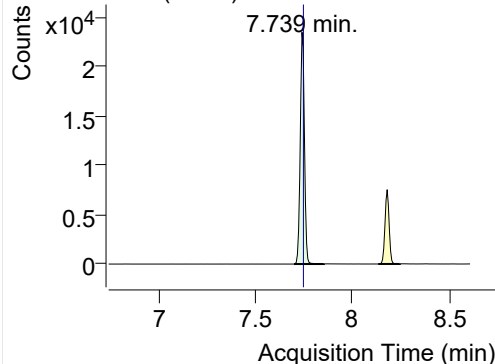
128.0, 127.0, 129.0



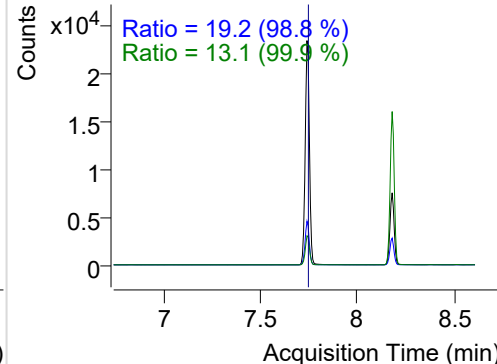
+ SIM (4.302-4.478 min, 33 scans) (**) 220302

**Acenaphthylene**

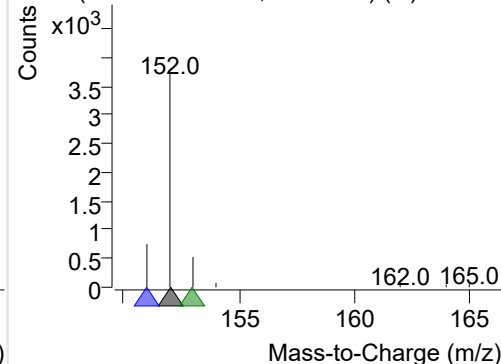
+ Selected Ion (152.0) 220302-PAHs-054.D



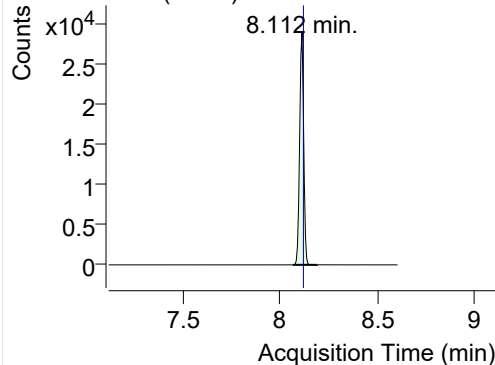
152.0, 151.0, 153.0



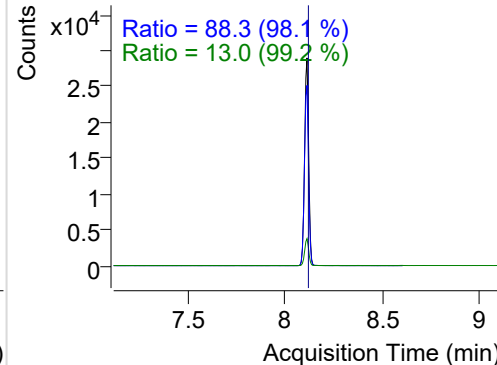
+ SIM (7.698-7.852 min, 27 scans) (**) 220302

**IS-D10-Acenaphthene**

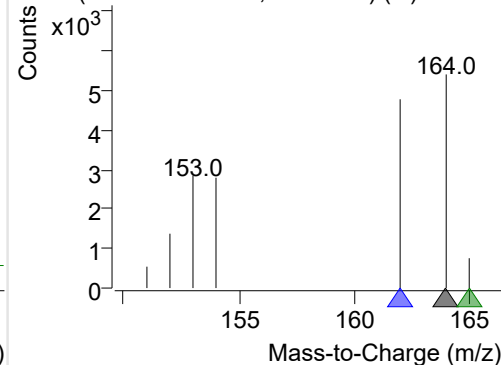
+ Selected Ion (164.0) 220302-PAHs-054.D



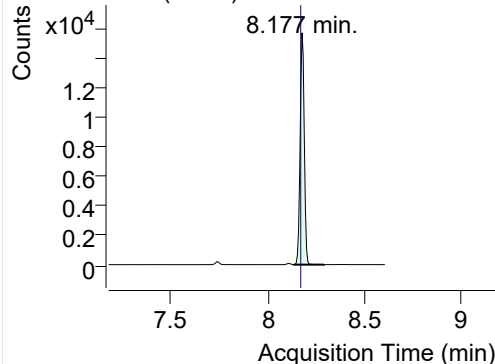
164.0, 162.0, 165.0



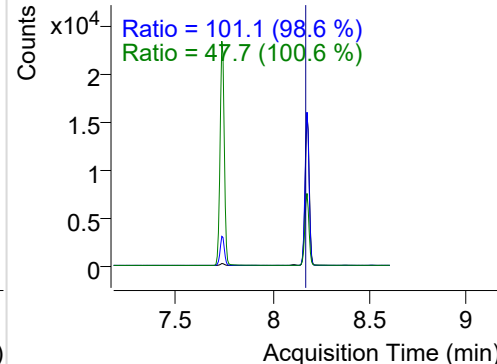
+ SIM (8.065-8.189 min, 22 scans) (**) 220302

**Acenaphthene**

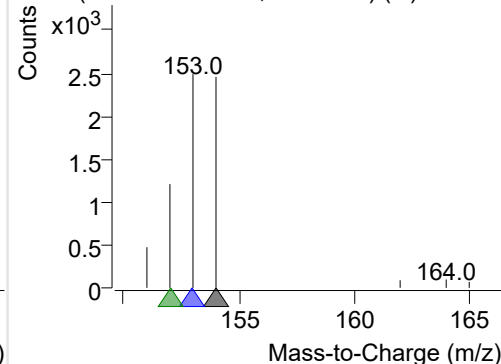
+ Selected Ion (154.0) 220302-PAHs-054.D



154.0, 153.0, 152.0

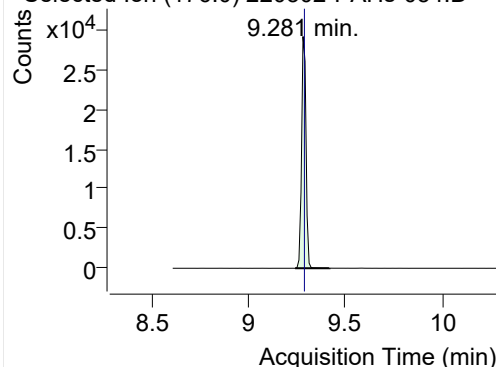


+ SIM (8.136-8.290 min, 27 scans) (**) 220302

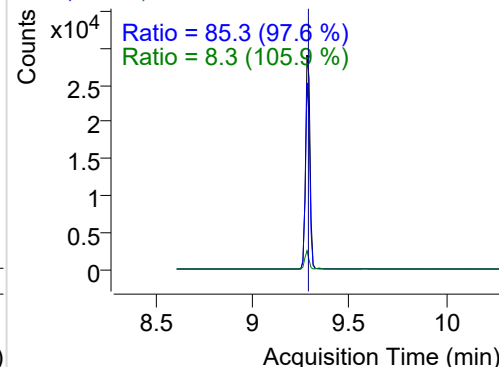


LSS-D10-Fluorene

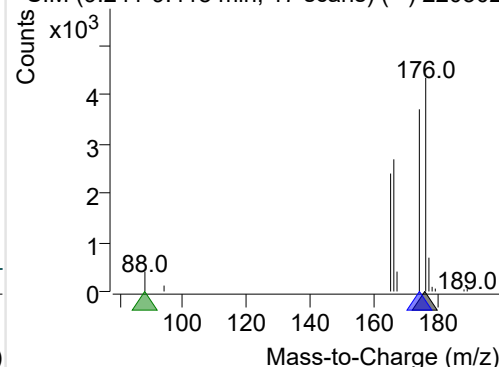
+ Selected Ion (176.0) 220302-PAHs-054.D



176.0, 174.0, 88.0

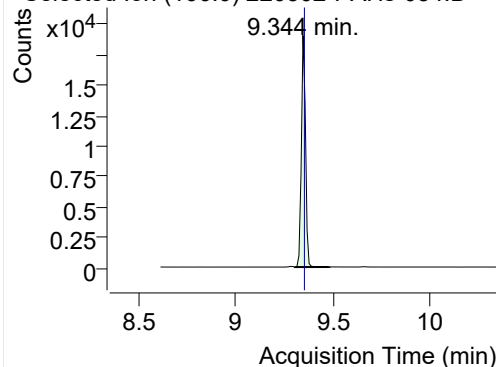


+ SIM (9.241-9.418 min, 17 scans) (**) 220302

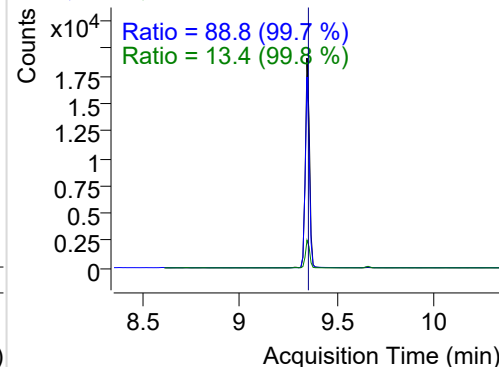


Fluorene

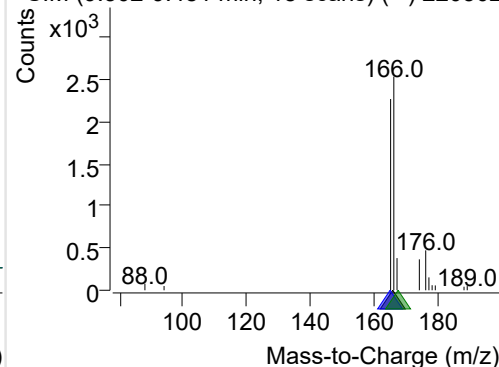
+ Selected Ion (166.0) 220302-PAHs-054.D



166.0, 165.0, 167.0

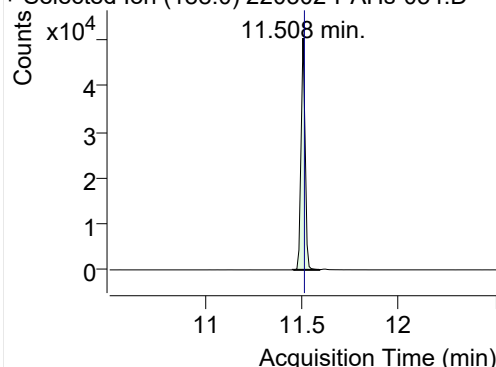


+ SIM (9.302-9.481 min, 18 scans) (**) 220302

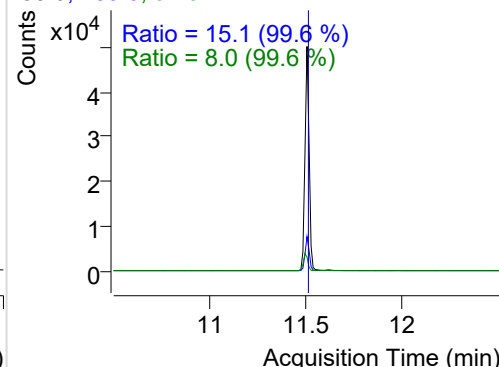


IS-D10-Phenanthrene

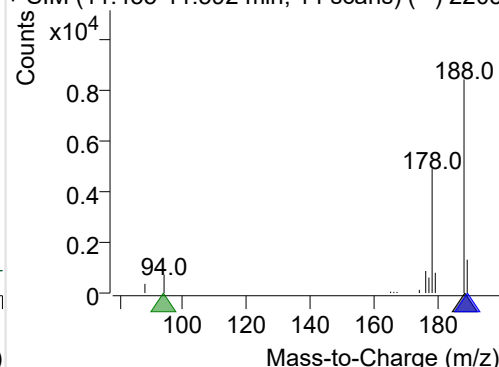
+ Selected Ion (188.0) 220302-PAHs-054.D



188.0, 189.0, 94.0

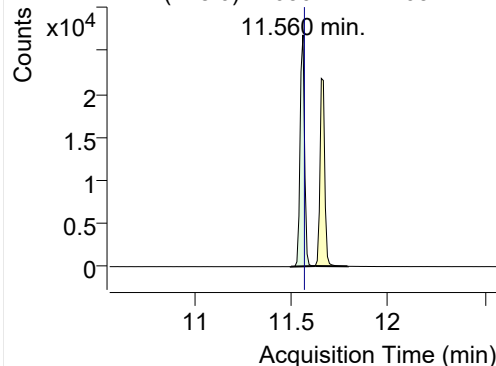


+ SIM (11.455-11.592 min, 14 scans) (**) 2203

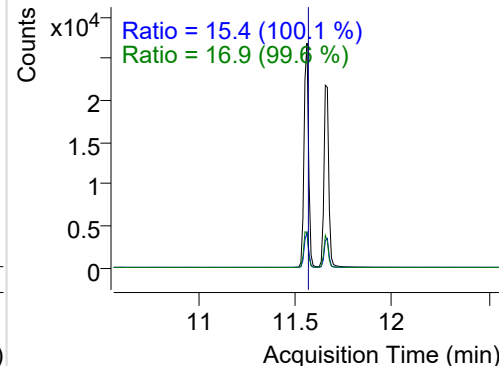


Phenanthrene

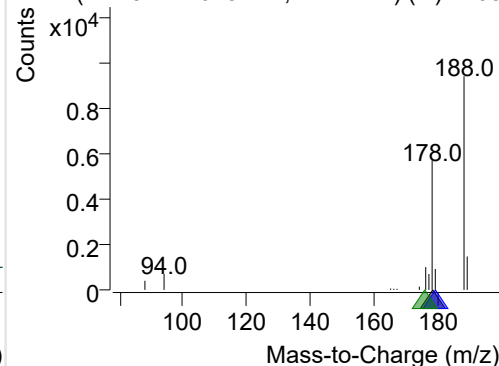
+ Selected Ion (178.0) 220302-PAHs-054.D



178.0, 179.0, 176.0

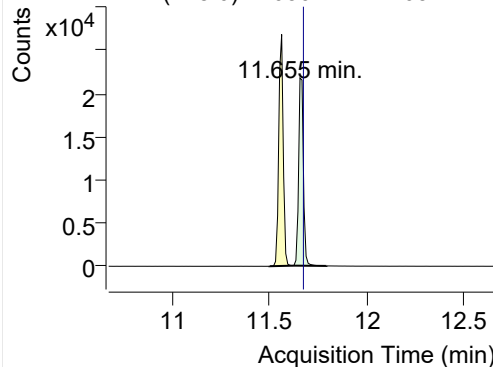


+ SIM (11.497-11.623 min, 12 scans) (**) 2203

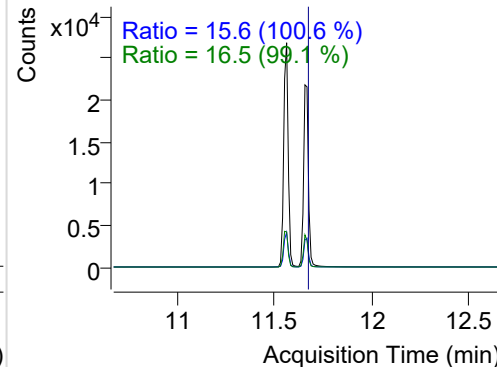


Anthracene

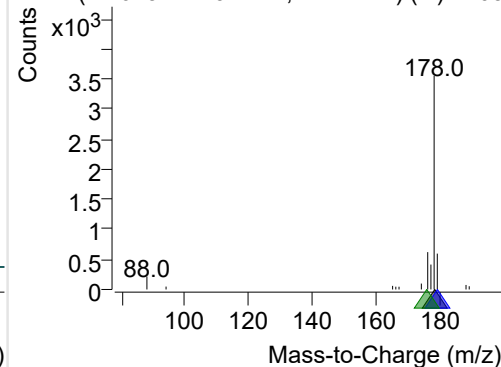
+ Selected Ion (178.0) 220302-PAHs-054.D



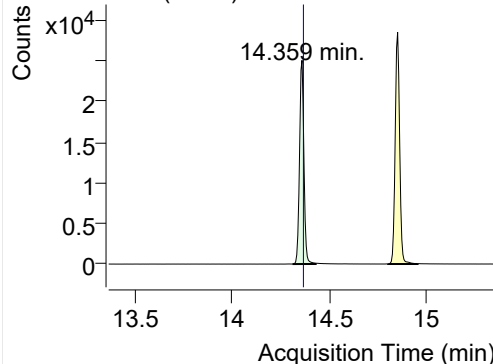
178.0, 179.0, 176.0



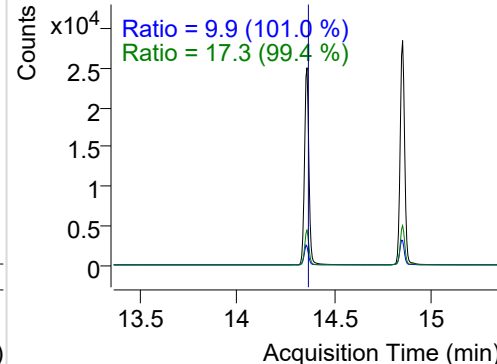
+ SIM (11.623-11.791 min, 17 scans) (**) 2203

**Fluoranthene**

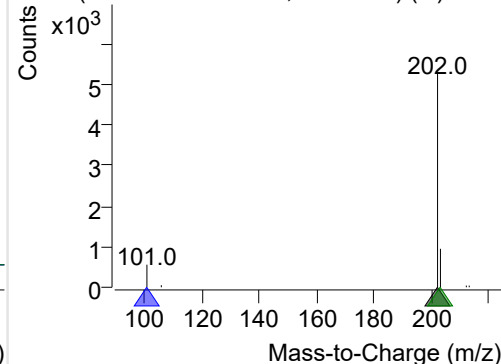
+ Selected Ion (202.0) 220302-PAHs-054.D



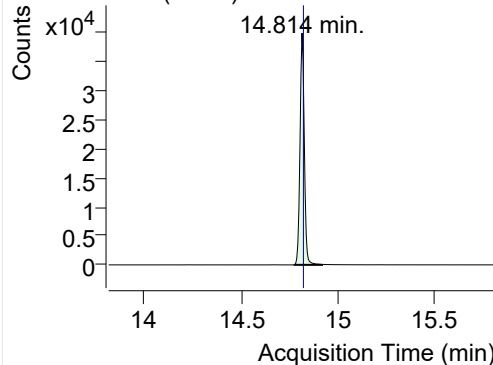
202.0, 101.0, 203.0



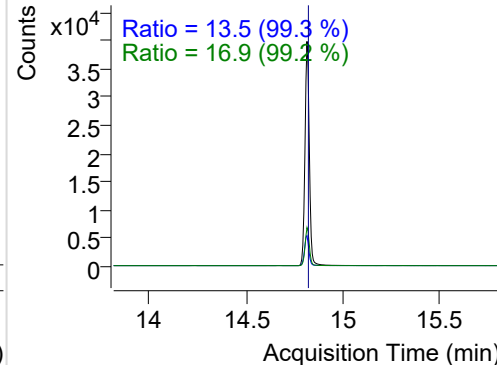
+ SIM (14.310-14.429 min, 23 scans) (**) 2203

**LSS-D10-Pyrene**

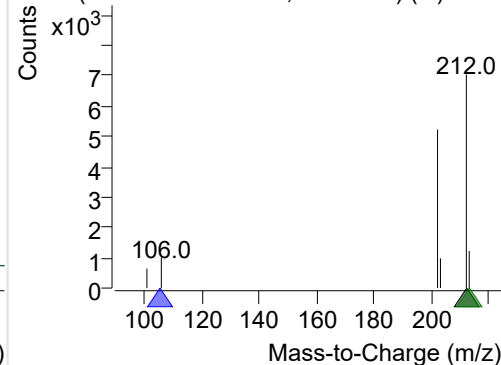
+ Selected Ion (212.0) 220302-PAHs-054.D



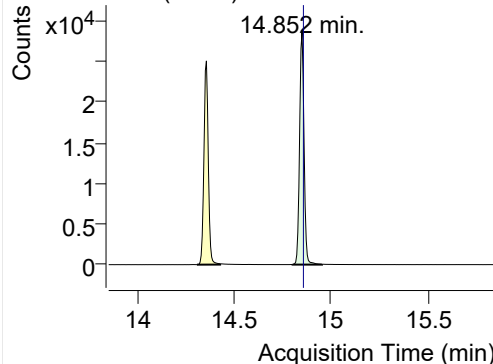
212.0, 106.0, 213.0



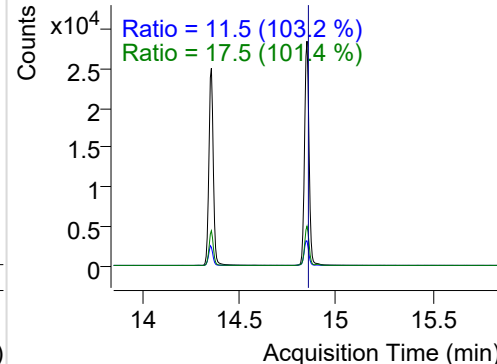
+ SIM (14.776-14.917 min, 27 scans) (**) 2203

**Pyrene**

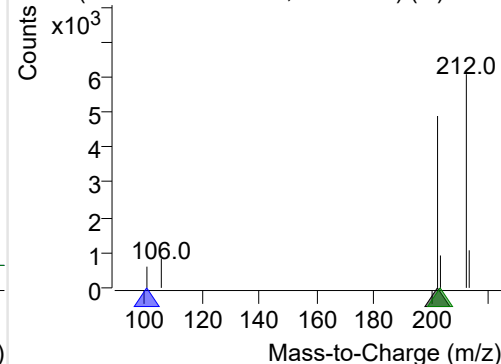
+ Selected Ion (202.0) 220302-PAHs-054.D



202.0, 101.0, 203.0

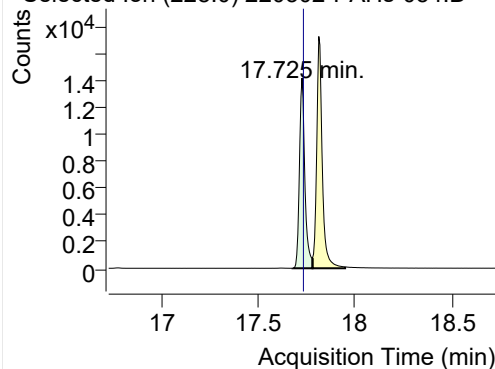


+ SIM (14.803-14.955 min, 29 scans) (**) 2203

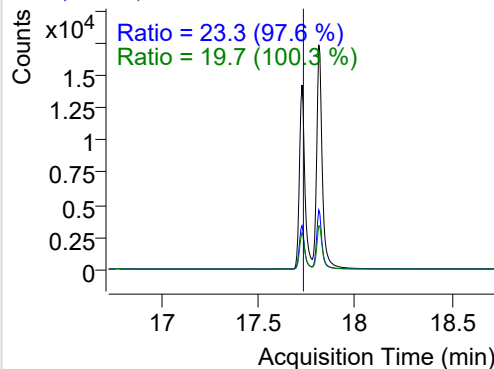


Benz(a)anthracene

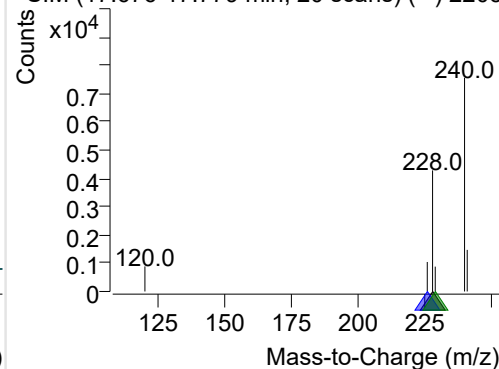
+ Selected Ion (228.0) 220302-PAHs-054.D



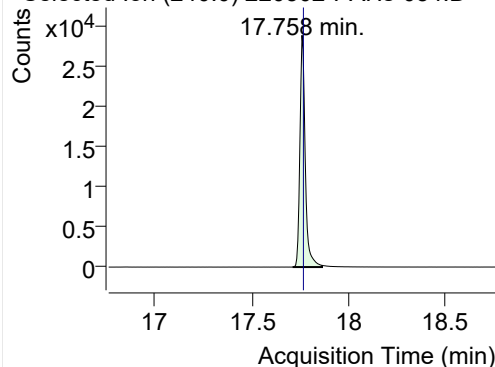
228.0, 226.0, 229.0



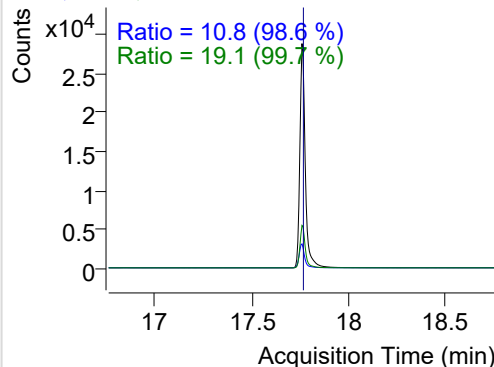
+ SIM (17.676-17.779 min, 20 scans) (**) 2203

**IS-D12-Chrysene**

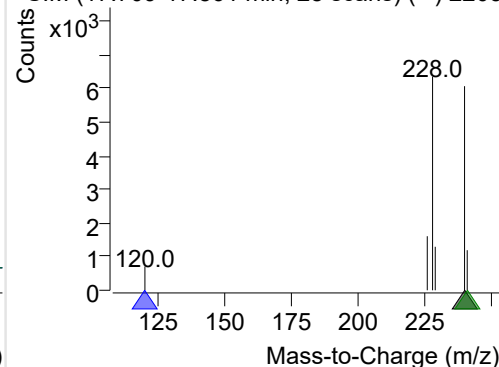
+ Selected Ion (240.0) 220302-PAHs-054.D



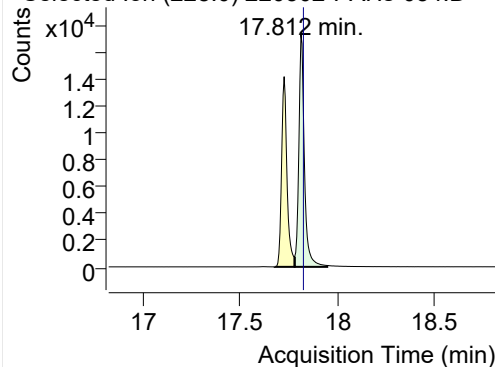
240.0, 120.0, 241.0



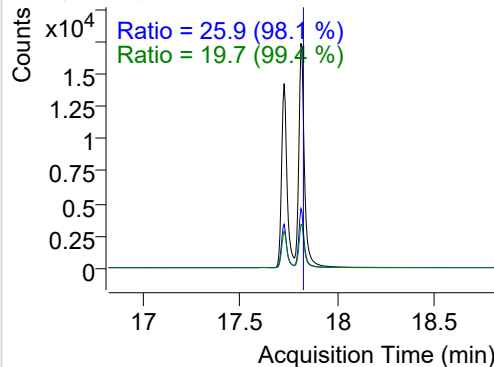
+ SIM (17.709-17.861 min, 28 scans) (**) 2203

**Chrysene**

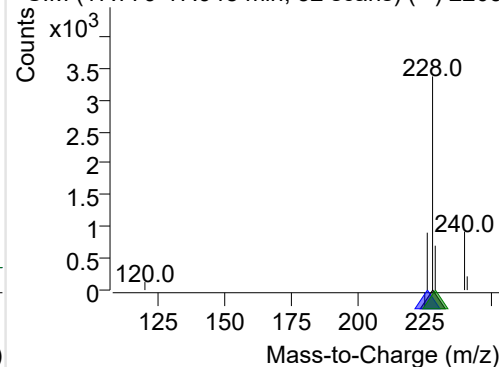
+ Selected Ion (228.0) 220302-PAHs-054.D



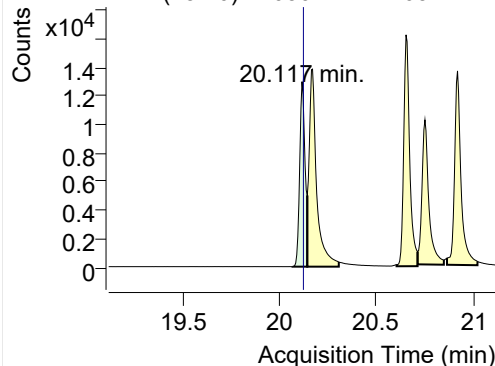
228.0, 226.0, 229.0



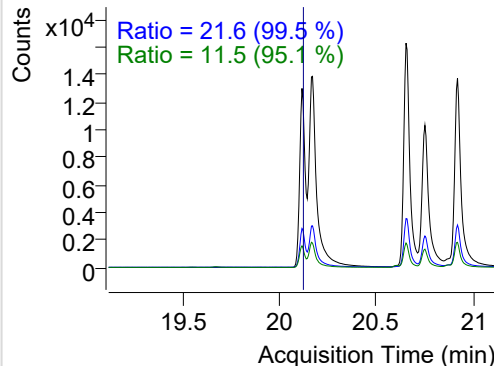
+ SIM (17.779-17.948 min, 32 scans) (**) 2203

**Benzo(b)fluoranthene**

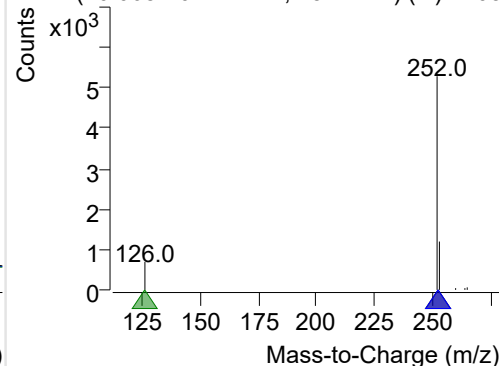
+ Selected Ion (252.0) 220302-PAHs-054.D



252.0, 253.0, 126.0

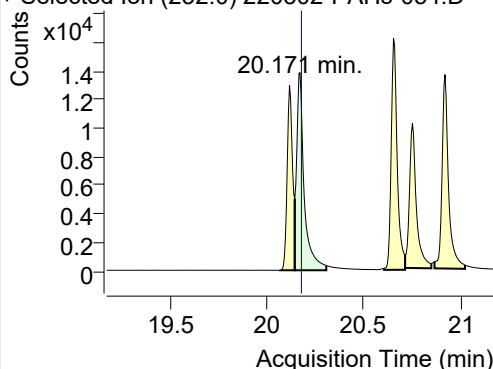


+ SIM (20.068-20.144 min, 15 scans) (**) 2203

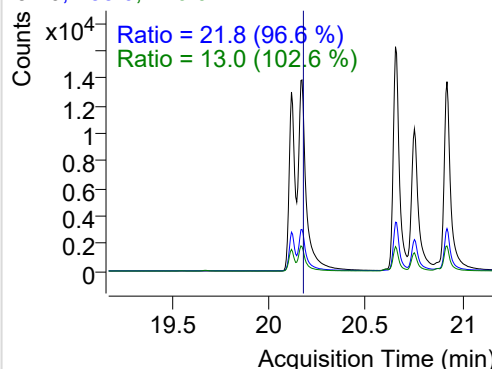


Benzo(k)fluoranthene

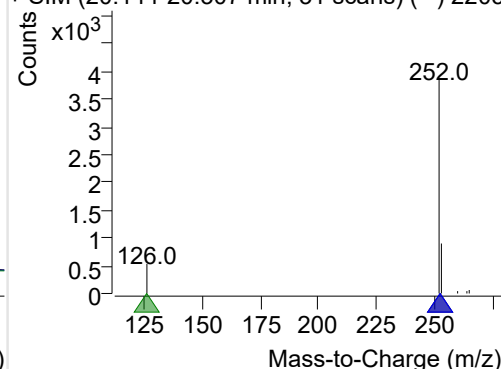
+ Selected Ion (252.0) 220302-PAHs-054.D



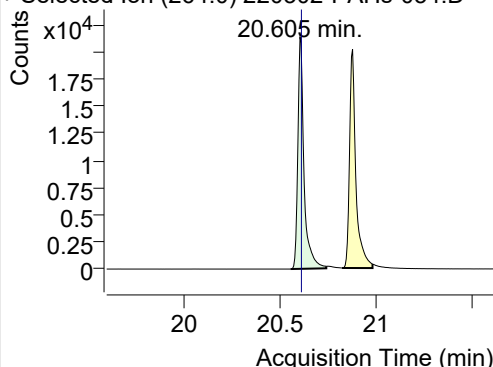
252.0, 253.0, 126.0



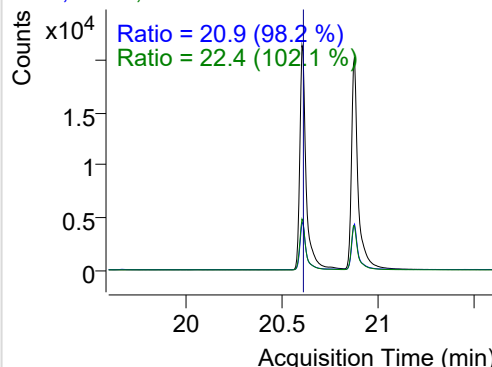
+ SIM (20.144-20.307 min, 31 scans) (**) 2203

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

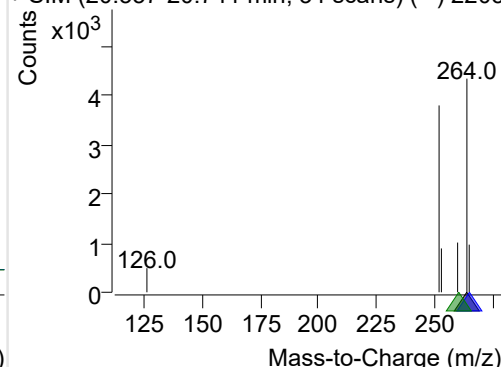
+ Selected Ion (264.0) 220302-PAHs-054.D



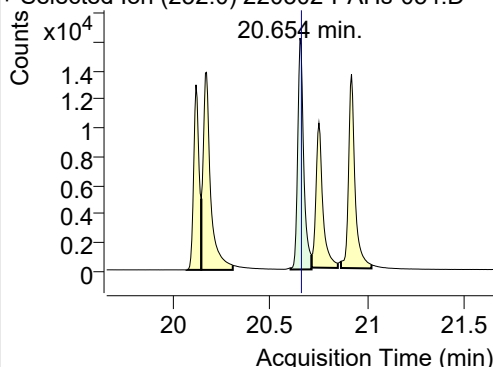
264.0, 265.0, 260.0



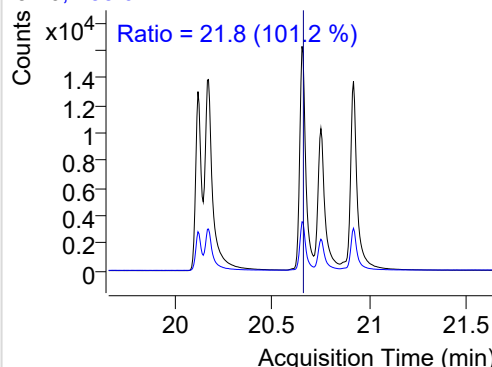
+ SIM (20.557-20.741 min, 34 scans) (**) 2203

**Benzo(e)pyrene**

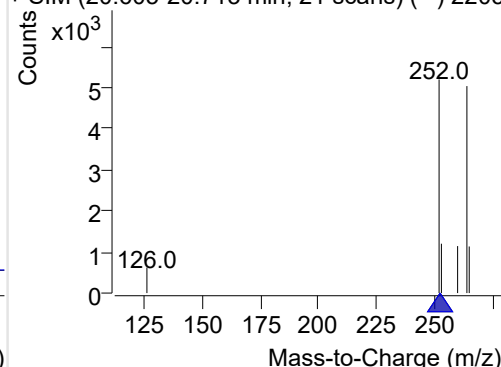
+ Selected Ion (252.0) 220302-PAHs-054.D



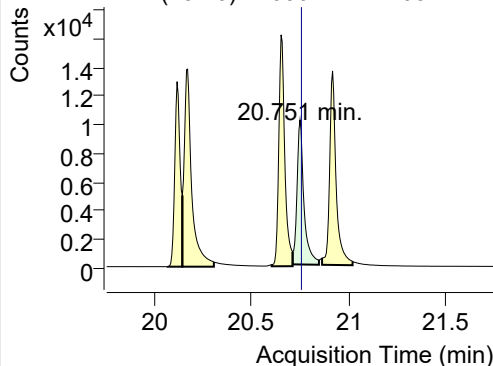
252.0, 253.0



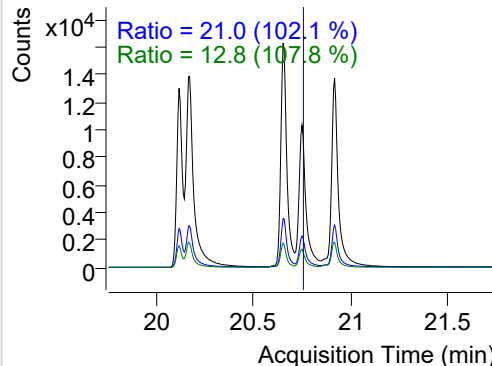
+ SIM (20.605-20.713 min, 21 scans) (**) 2203

**Benzo(a)pyrene**

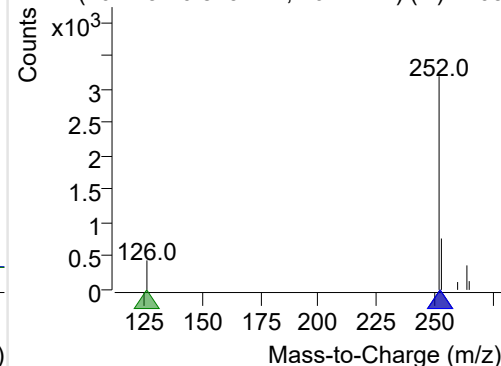
+ Selected Ion (252.0) 220302-PAHs-054.D



252.0, 253.0, 126.0

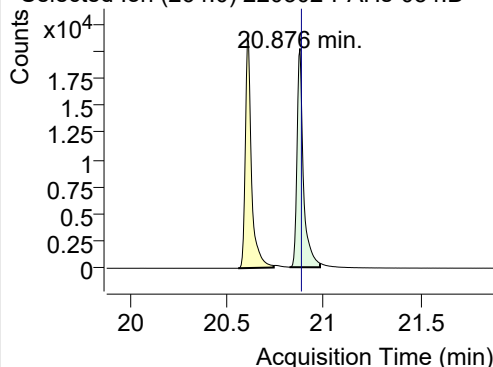


+ SIM (20.713-20.849 min, 26 scans) (**) 2203

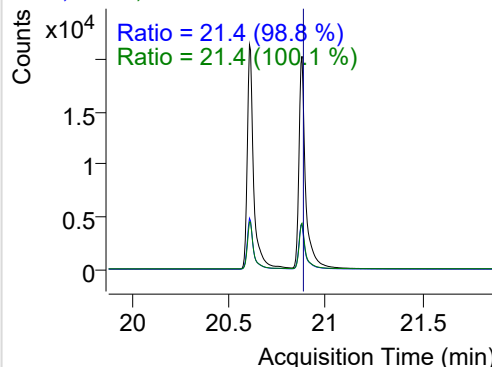


IS-D12-Perylene

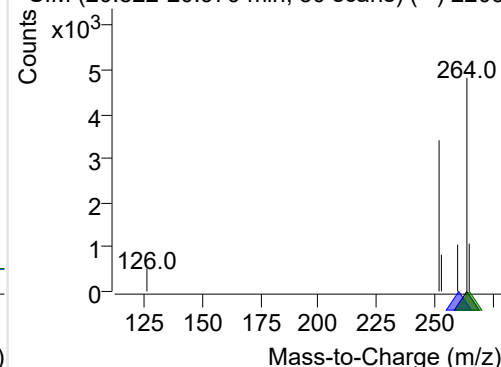
+ Selected Ion (264.0) 220302-PAHs-054.D



264.0, 260.0, 265.0

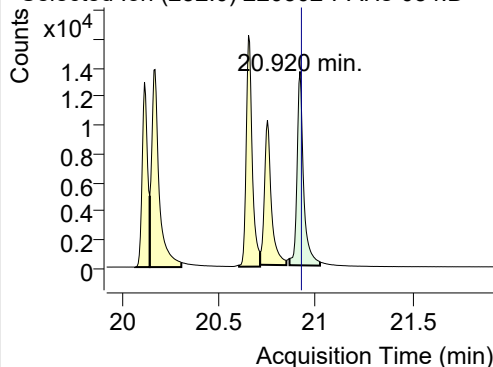


+ SIM (20.822-20.979 min, 30 scans) (**) 2203

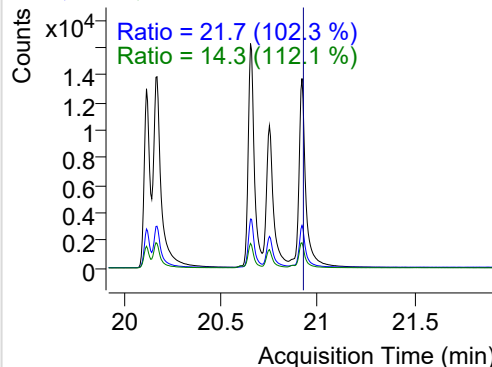


Perylene

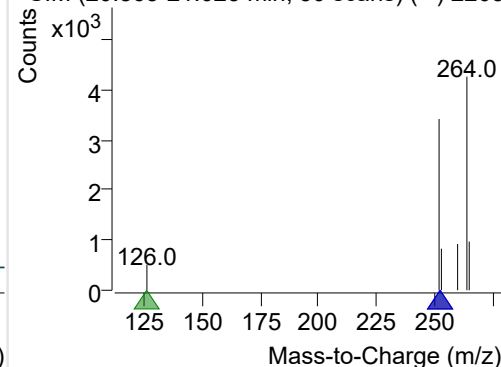
+ Selected Ion (252.0) 220302-PAHs-054.D



252.0, 253.0, 126.0

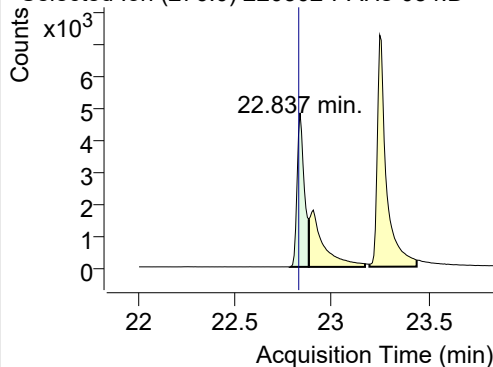


+ SIM (20.865-21.023 min, 30 scans) (**) 2203

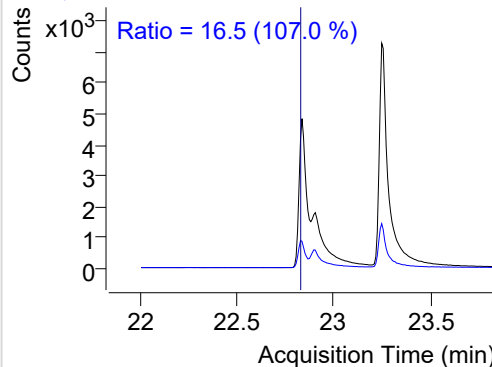


Indeno(1,2,3-c,d)pyrene

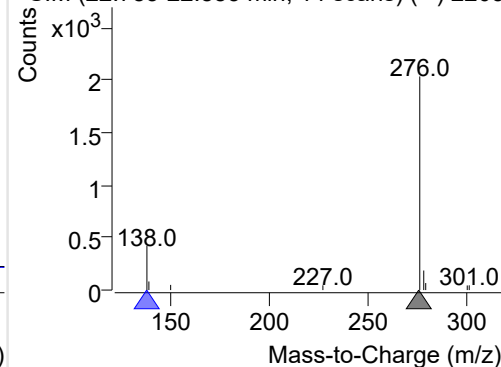
+ Selected Ion (276.0) 220302-PAHs-054.D



276.0, 138.0

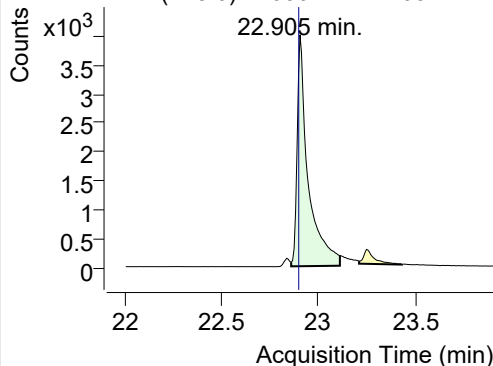


+ SIM (22.783-22.883 min, 14 scans) (**) 2203

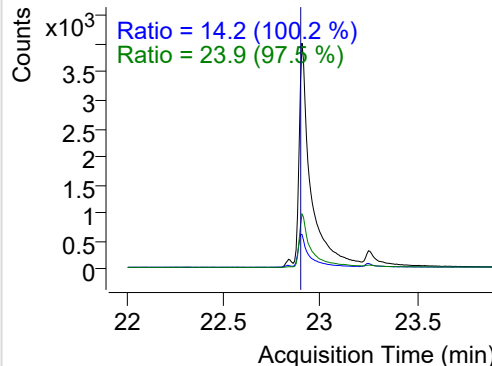


Dibenz(a,h)anthracene

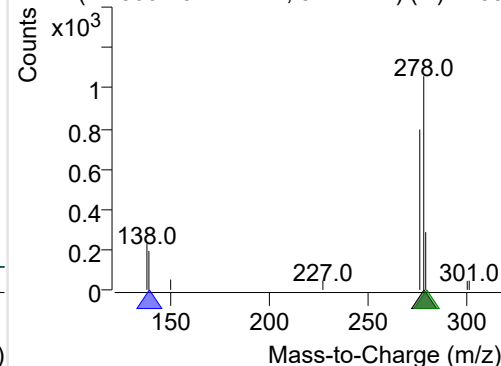
+ Selected Ion (278.0) 220302-PAHs-054.D



278.0, 139.0, 279.0

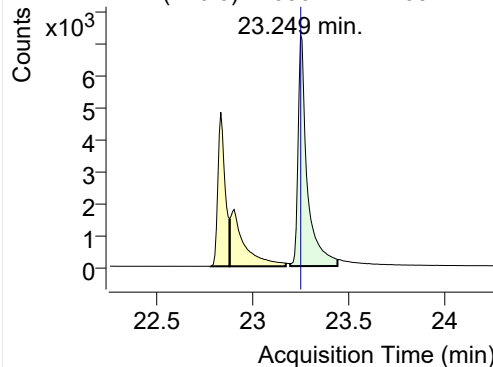


+ SIM (22.860-23.112 min, 34 scans) (**) 2203

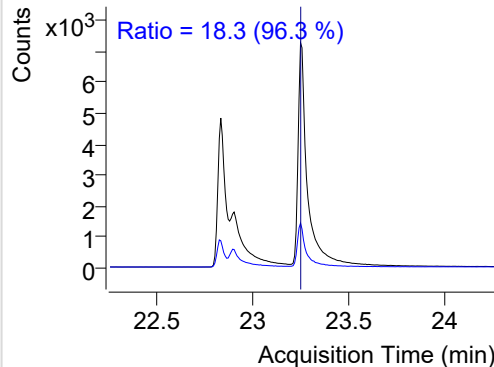


Benzo(g,h,i)perylene

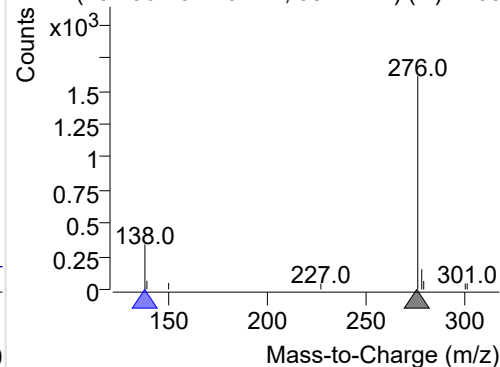
+ Selected Ion (276.0) 220302-PAHs-054.D



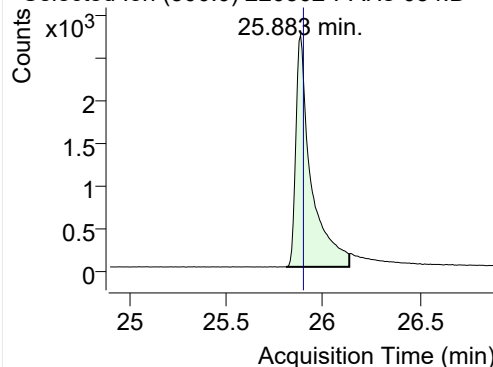
276.0, 138.0



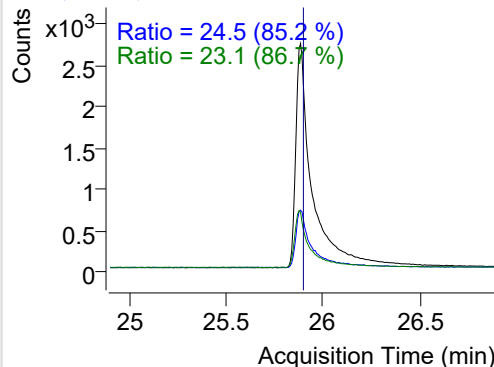
+ SIM (23.196-23.440 min, 33 scans) (**) 2203

**Coronene**

+ Selected Ion (300.0) 220302-PAHs-054.D



300.0, 301.0, 150.0



+ SIM (25.808-26.135 min, 43 scans) (**) 2203

