

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050919\
 Data File : BM020226.D
 Acq On : 09 May 2019 20:27
 Operator : JU/SJ
 Sample : K2641-09DL 4X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CL-02-050719-EDL

Quant Time: May 10 05:32:29 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.78	152	136500	20.00	ng	-0.01
21) Naphthalene-d8	10.57	136	488348	20.00	ng	-0.02
39) Acenaphthene-d10	14.42	164	292456	20.00	ng	-0.01
64) Phenanthrene-d10	17.17	188	696353	20.00	ng	0.00
76) Chrysene-d12	21.36	240	764539	20.00	ng	0.00
87) Perylene-d12	23.65	264	931260	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.36	112	225864	27.05	ng	-0.01
7) Phenol-d6	6.95	99	303725	26.62	ng	0.00
23) Nitrobenzene-d5	8.95	82	211861	17.13	ng	-0.01
42) 2,4,6-Tribromophenol	15.92	330	121843	26.84	ng	0.00
45) 2-Fluorobiphenyl	13.04	172	380786	16.02	ng	-0.02
79) Terphenyl-d14	19.80	244	637154	14.54	ng	-0.01

Target Compounds

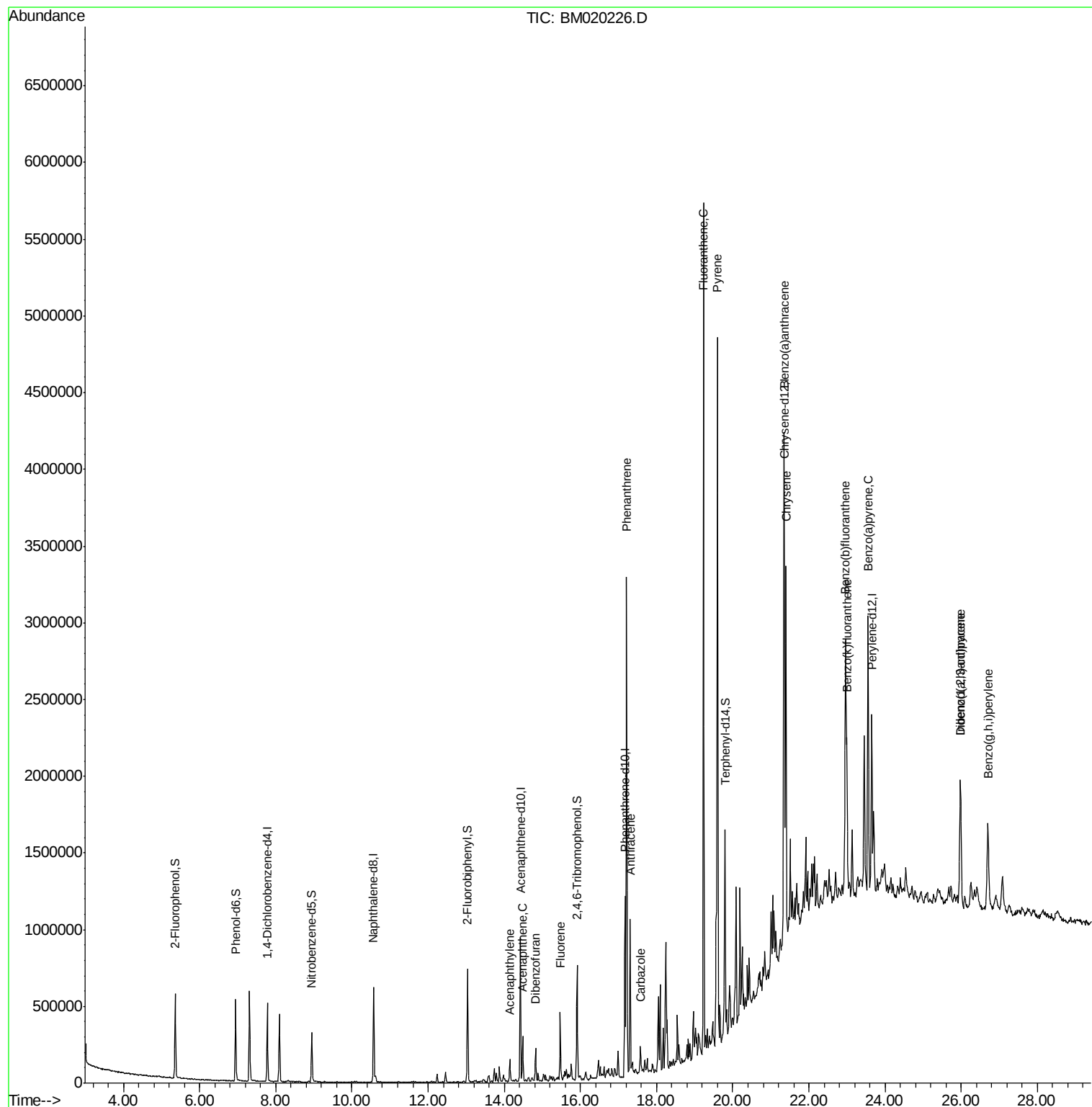
						Qvalue
49) Acenaphthylene	14.14	152	94005	3.056	ng	95
52) Acenaphthene	14.49	154	100324	5.688	ng	98
55) Dibenzofuran	14.82	168	109236	3.671	ng	# 97
58) Fluorene	15.47	166	196318	8.034	ng	100
71) Phenanthrene	17.22	178	1923111	50.030	ng	100
72) Anthracene	17.30	178	603226	15.696	ng	100
73) Carbazole	17.58	167	97868	2.822	ng	99
75) Fluoranthene	19.23	202	3146754	64.701	ng	99
78) Pyrene	19.60	202	2767586	53.917	ng	99
81) Benzo(a)anthracene	21.34	228	1580991	29.487	ng	98
83) Chrysene	21.40	228	1271681	24.456	ng	97
86) Indeno(1,2,3-cd)pyrene	25.98	276	833046	13.468	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	1775187	28.867	ng	97
89) Benzo(k)fluoranthene	23.00	252	533038m	9.502	ng	
90) Benzo(a)pyrene	23.55	252	1363304	24.407	ng	96
91) Dibenzo(a,h)anthracene	25.98	278	221519	3.813	ng	# 84
92) Benzo(g,h,i)perylene	26.70	276	785219	14.238	ng	97

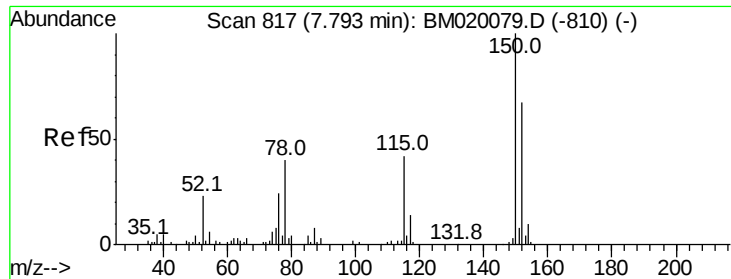
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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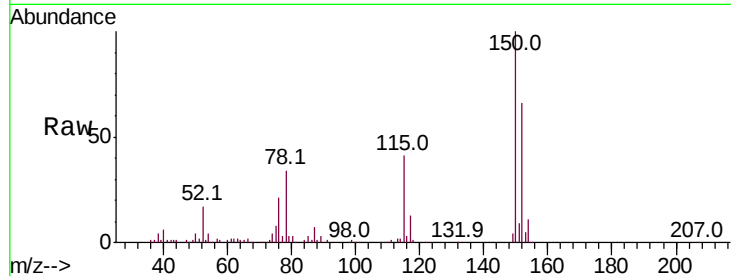


#1

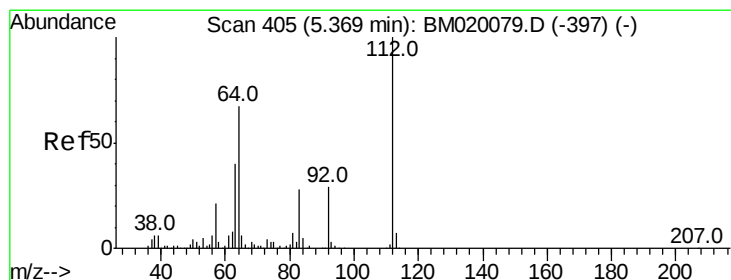
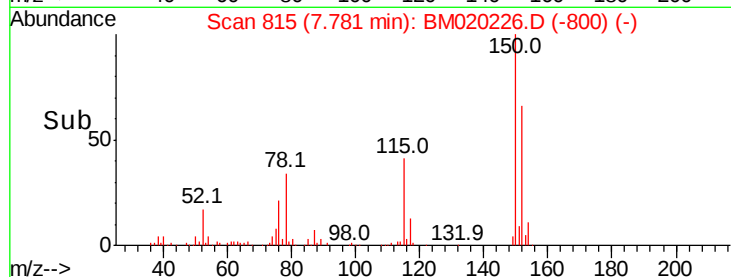
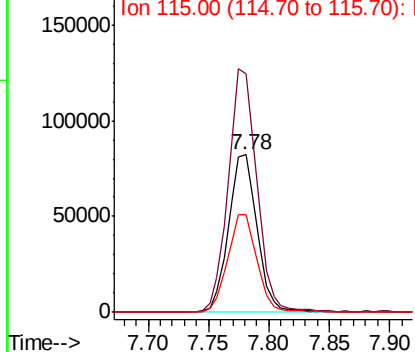
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.78 min Scan# 815
Delta R.T. -0.01 min
Lab File: BM020226.D
Acq: 09 May 2019 20:27

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-EDL

Tot Ion:152 Resp: 136500
Ion Ratio Lower Upper
152 100
150 151.7 119.8 179.8
115 62.1 50.8 76.2



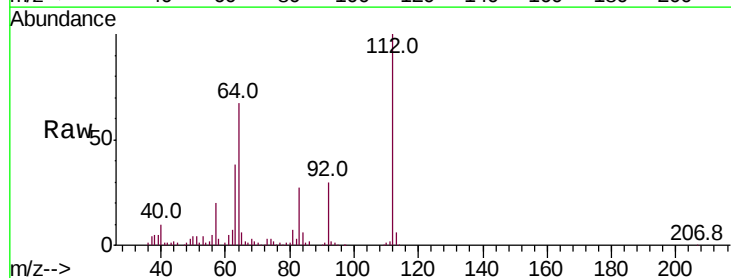
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



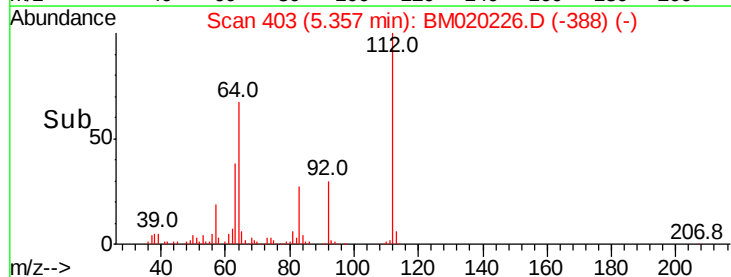
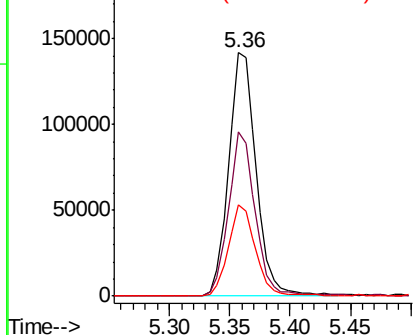
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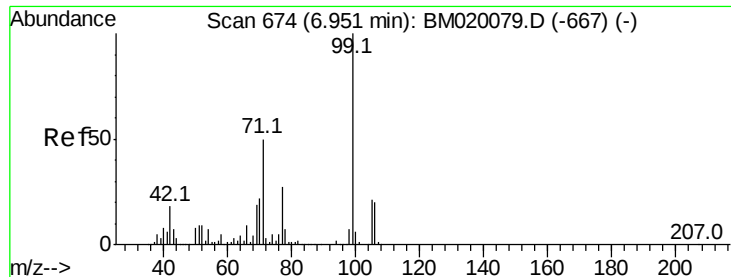
2-Fluorophenol
Concen: 27.047 ng
RT: 5.36 min Scan# 403
Delta R.T. -0.01 min
Lab File: BM020226.D
Acq: 09 May 2019 20:27

Tgt Ion:112 Resp: 225864
Ion Ratio Lower Upper
112 100
64 67.4 53.8 80.6
63 37.5 32.3 48.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BM0
Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 26.623 ng

RT: 6.95 min Scan# 673

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

Instrument :

BNA_M

ClientSampleId :

CL-02-050719-EDL

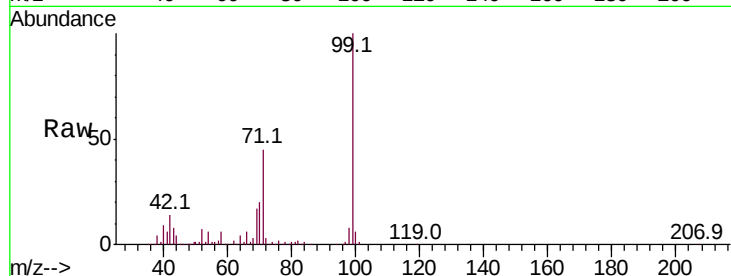
Tot Ion: 99 Resp: 303725

Ion Ratio Lower Upper

99 100

42 14.5 14.2 21.2

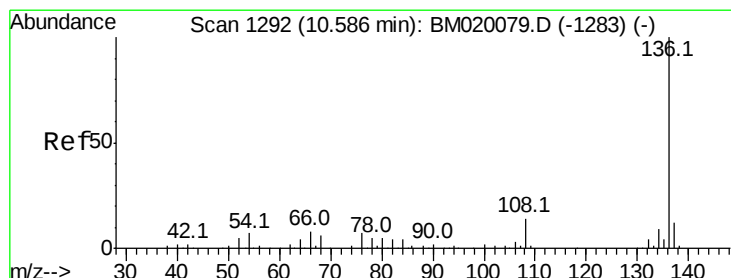
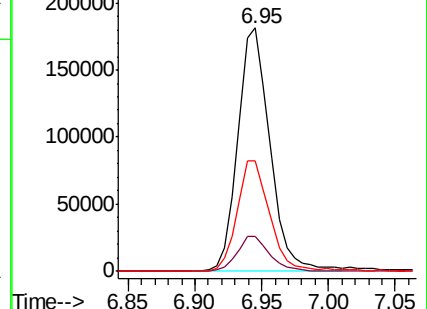
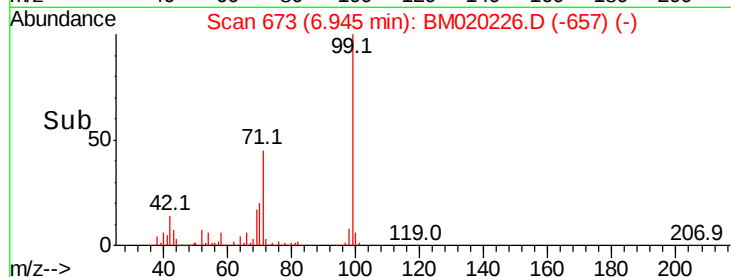
71 45.3 40.3 60.5



Abundance Ion 99.00 (98.70 to 99.70): BM020079.D (-667) (-)

Ion 42.00 (41.70 to 42.70): BM020079.D (-667) (-)

Ion 71.00 (70.70 to 71.70): BM020079.D (-667) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.57 min Scan# 1289

Delta R.T. -0.02 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

Tgt Ion: 136 Resp: 488348

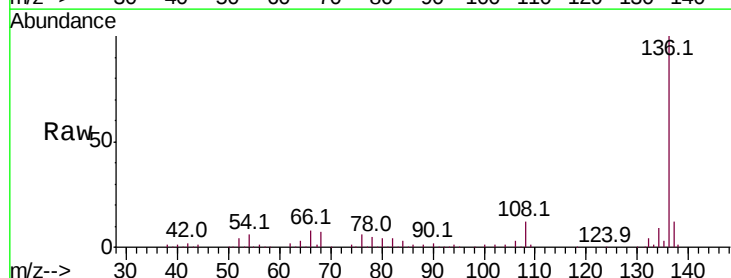
Ion Ratio Lower Upper

136 100

137 11.5 9.6 14.4

54 6.3 5.5 8.3

68 6.6 4.6 6.8

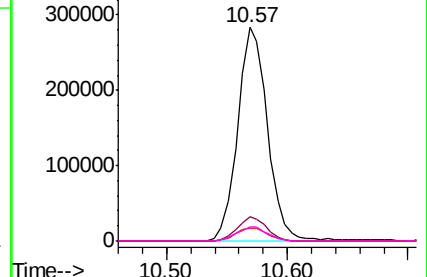
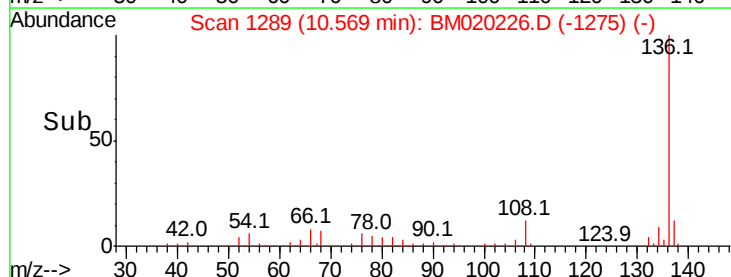


Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

Ion 137.00 (136.70 to 137.70): BM020079.D (-1283) (-)

Ion 54.00 (53.70 to 54.70): BM020079.D (-1283) (-)

Ion 68.00 (67.70 to 68.70): BM020079.D (-1283) (-)

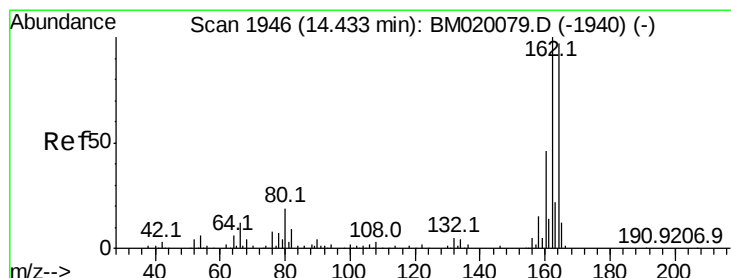
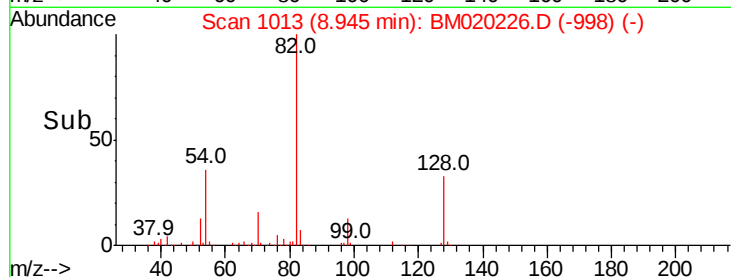
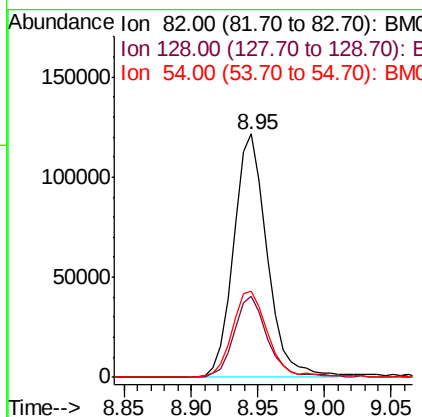
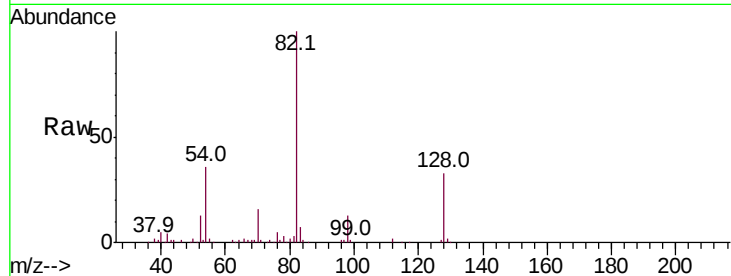




#23
 Nitrobenzene-d5
 Concen: 17.128 ng
 RT: 8.95 min Scan# 1013
 Delta R.T. -0.01 min
 Lab File: BM020226.D
 Acq: 09 May 2019 20:27

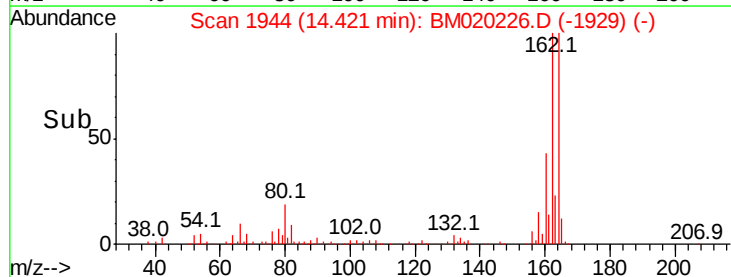
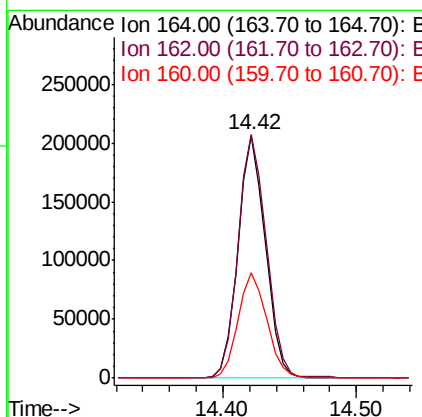
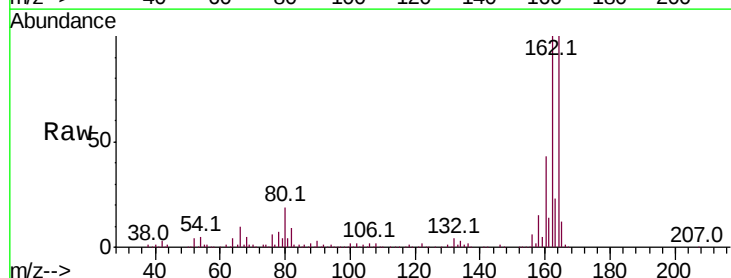
Instrument :
 BNA_M
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 CL-02-050719-EDL

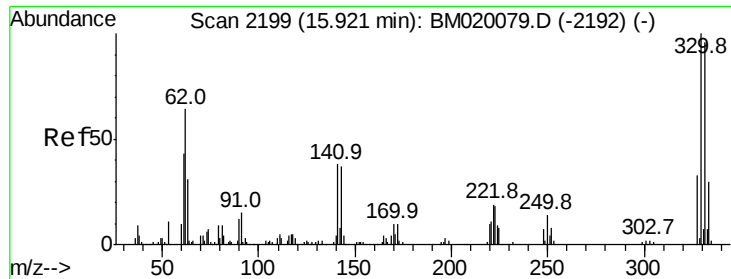
Tot Ion	82	Resp	211861
Ion Ratio	Lower	Upper	
82	100		
128	33.4	25.2	37.8
54	35.6	31.9	47.9



#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 14.42 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: BM020226.D
 Acq: 09 May 2019 20:27

Tgt Ion	164	Resp	292456
Ion Ratio	Lower	Upper	
164	100		
162	100.5	82.2	123.2
160	43.3	37.6	56.4

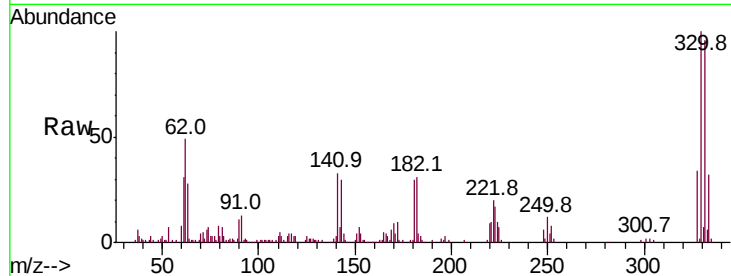




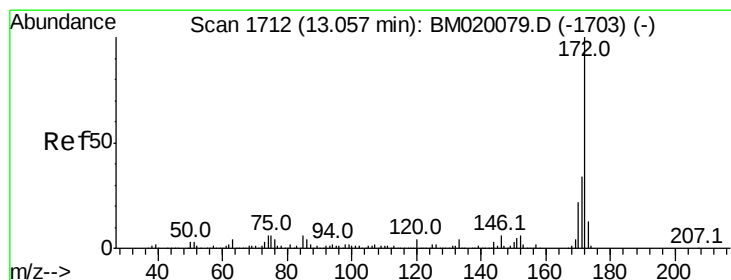
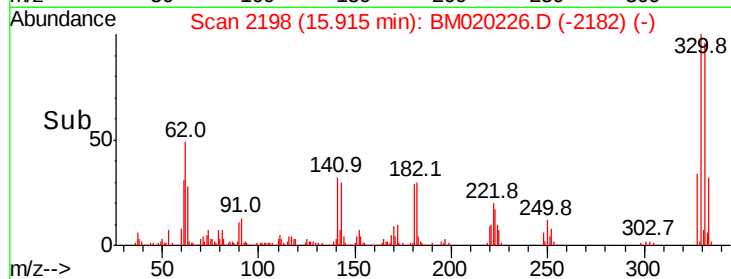
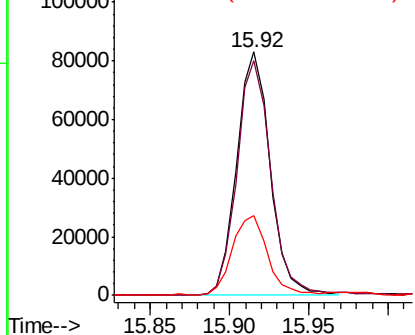
#42
 2,4,6-Tribromophenol
 Concen: 26.841 ng
 RT: 15.92 min Scan# 2198
 Delta R.T. -0.01 min
 Lab File: BM020226.D
 Acq: 09 May 2019 20:27

Instrument :
 BNA_M
 ClientSampleId :
 CL-02-050719-EDL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.9	76.8	115.2
141	35.1	29.2	43.8

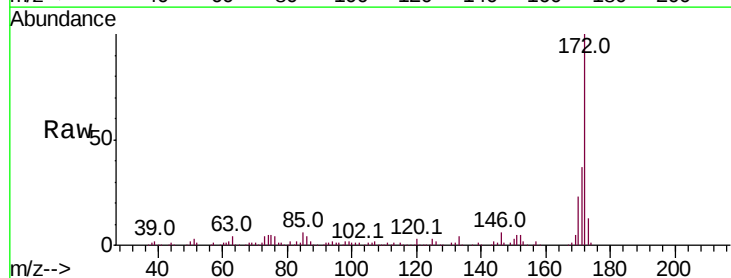


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

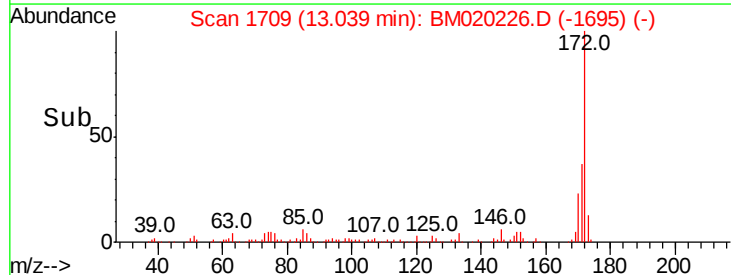
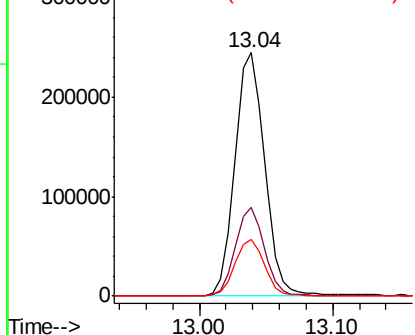


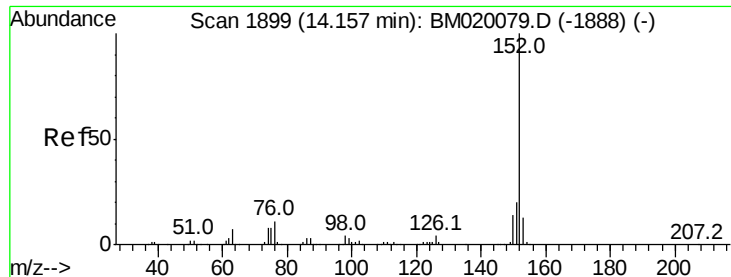
#45
 2-Fluorobiphenyl
 Concen: 16.020 ng
 RT: 13.04 min Scan# 1709
 Delta R.T. -0.02 min
 Lab File: BM020226.D
 Acq: 09 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	27.3	40.9
170	23.1	17.9	26.9



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Acenaphthylene

Concen: 3.056 ng

RT: 14.14 min Scan# 1897

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

Instrument :

BNA_M

ClientSampleId :

CL-02-050719-EDL

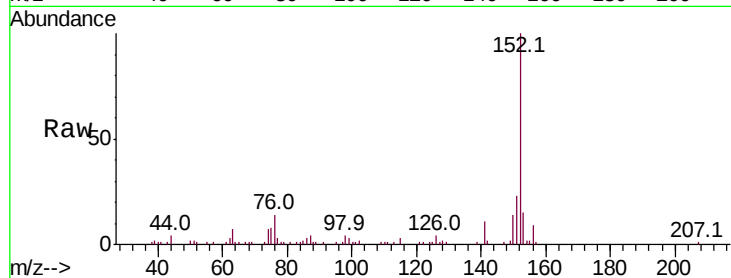
Tot Ion:152 Resp: 94005

Ion Ratio Lower Upper

152 100

151 22.6 16.2 24.2

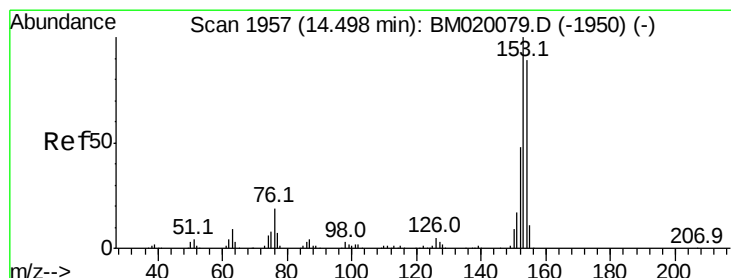
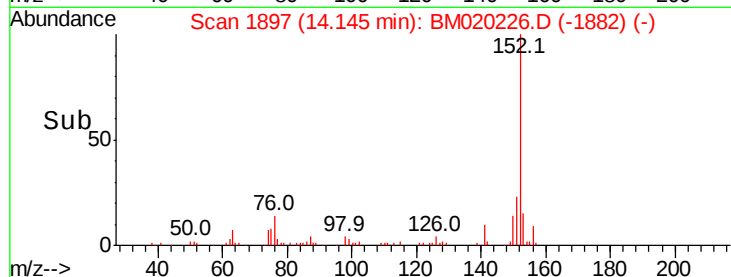
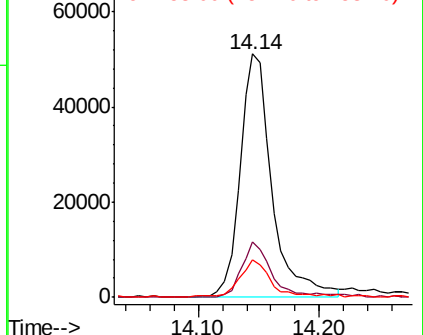
153 15.2 10.6 16.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#52

Acenaphthene

Concen: 5.688 ng

RT: 14.49 min Scan# 1955

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

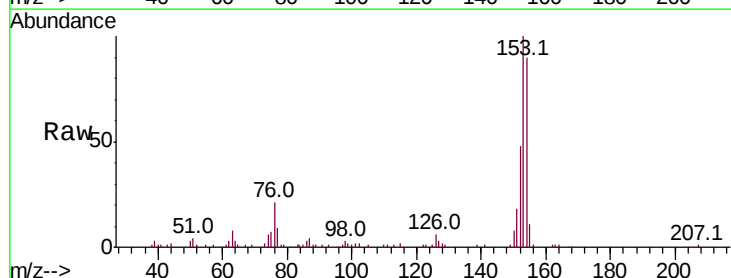
Tgt Ion:154 Resp: 100324

Ion Ratio Lower Upper

154 100

153 110.6 90.2 135.2

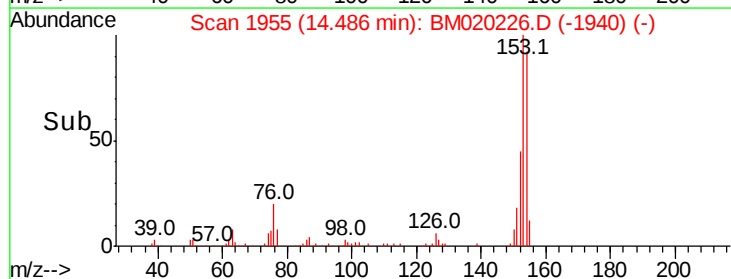
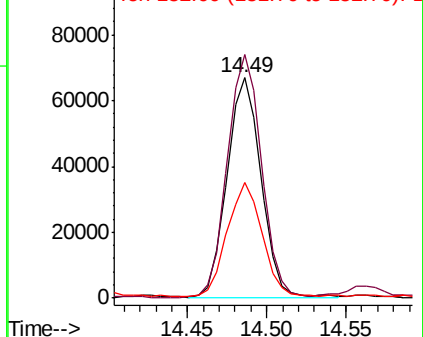
152 52.5 43.0 64.4

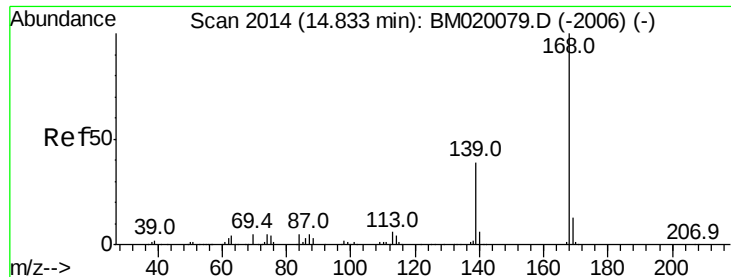


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

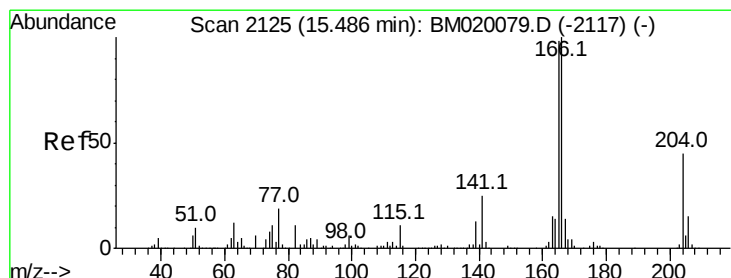
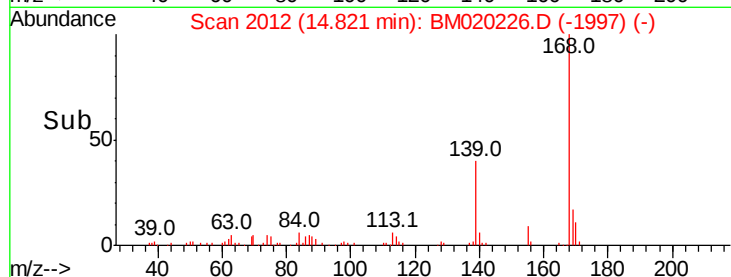
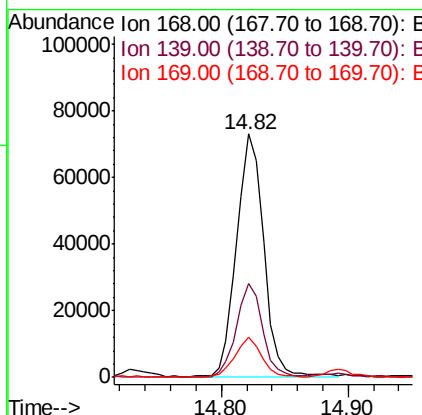
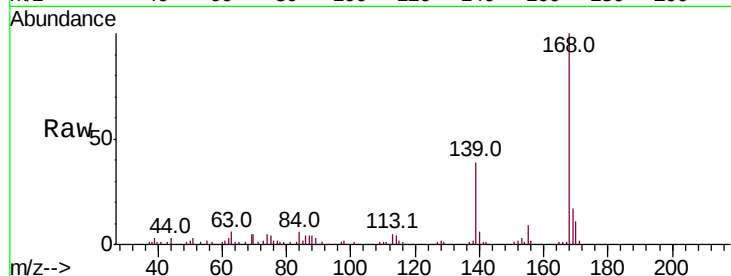




#55
Dibenzenofuran
Concen: 3.671 ng
RT: 14.82 min Scan# 2012
Delta R.T. -0.01 min
Lab File: BM020226.D
Acq: 09 May 2019 20:27

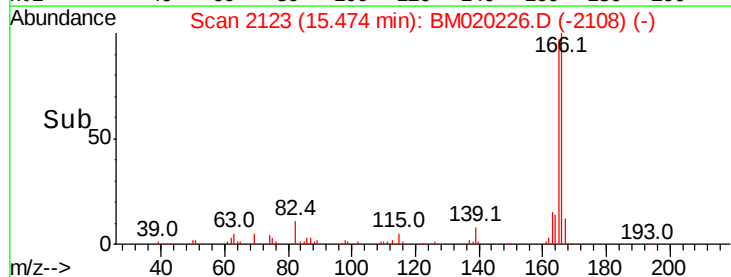
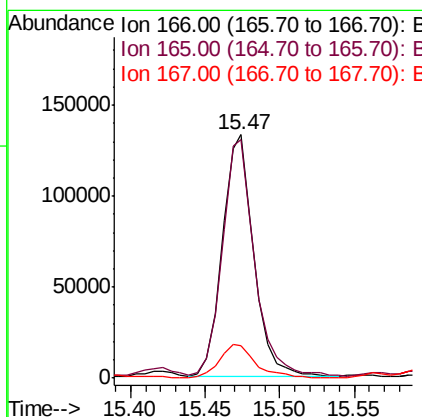
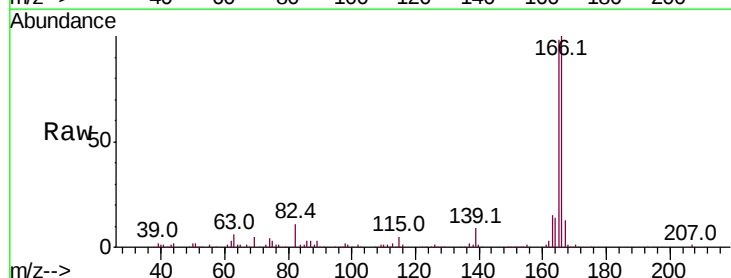
Instrument :
BNA_M
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CL-02-050719-EDL

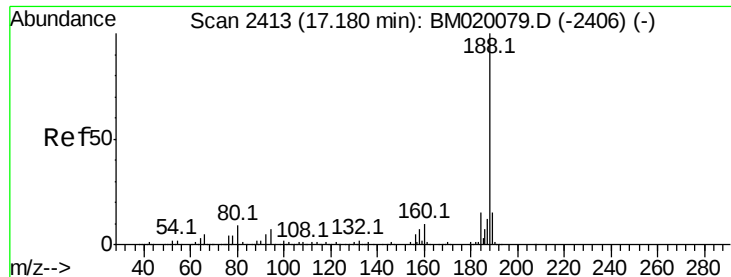
Tot Ion	Ratio	Lower	Upper
168	100		
139	38.6	31.1	46.7
169	16.7	10.6	16.0#



#58
Fluorene
Concen: 8.034 ng
RT: 15.47 min Scan# 2123
Delta R.T. -0.01 min
Lab File: BM020226.D
Acq: 09 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.2	117.2
167	13.2	11.0	16.4

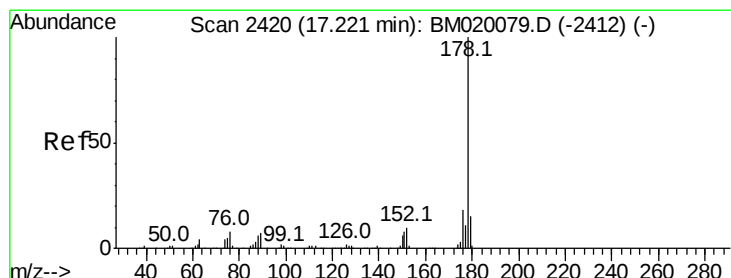
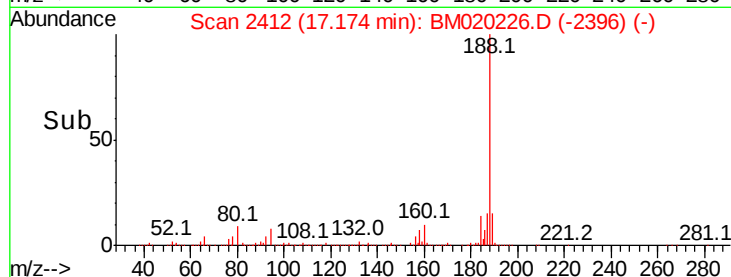
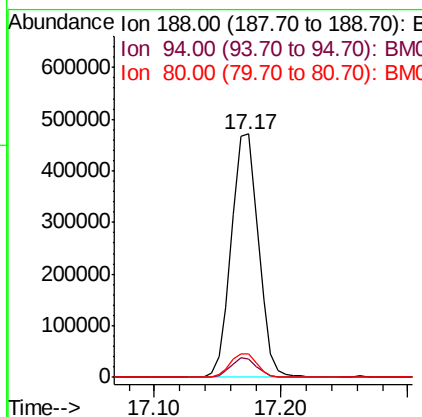
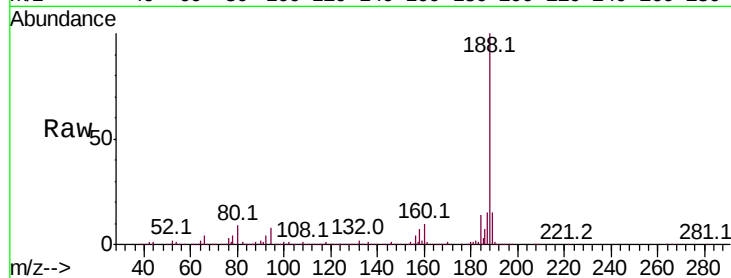




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.17 min Scan# 2412
Delta R.T. -0.01 min
Lab File: BM020226.D
Acq: 09 May 2019 20:27

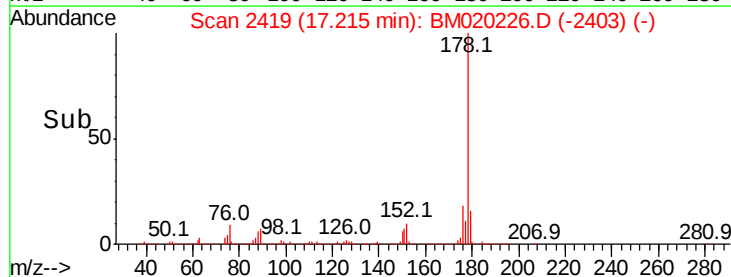
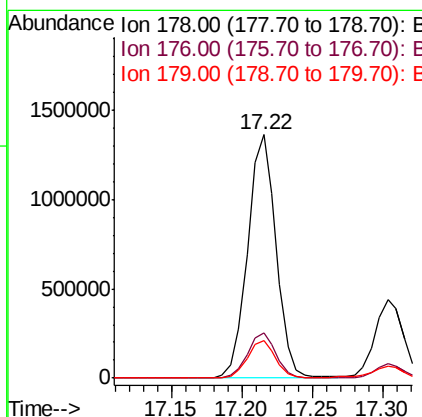
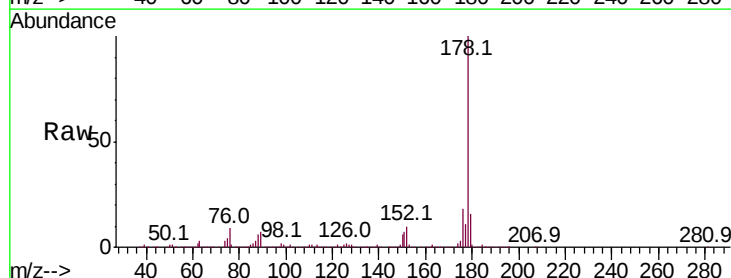
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-EDL

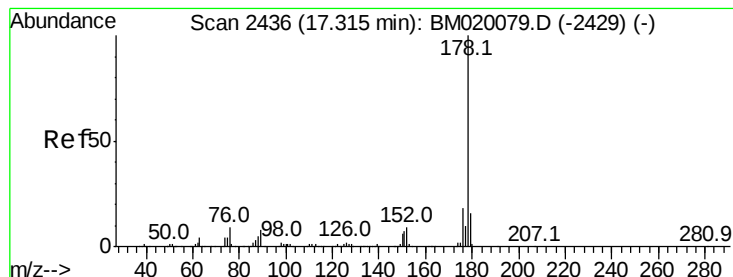
Tot Ion:188 Resp: 696353
Ion Ratio Lower Upper
188 100
94 7.5 5.8 8.6
80 9.4 7.4 11.2



#71
Phenanthrene
Concen: 50.030 ng
RT: 17.22 min Scan# 2419
Delta R.T. -0.01 min
Lab File: BM020226.D
Acq: 09 May 2019 20:27

Tgt Ion:178 Resp: 1923111
Ion Ratio Lower Upper
178 100
176 18.4 14.6 21.8
179 15.6 12.4 18.6





#72

Anthracene

Concen: 15.696 ng

RT: 17.30 min Scan# 2434

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

Instrument :

BNA_M

ClientSampleId :

CL-02-050719-EDL

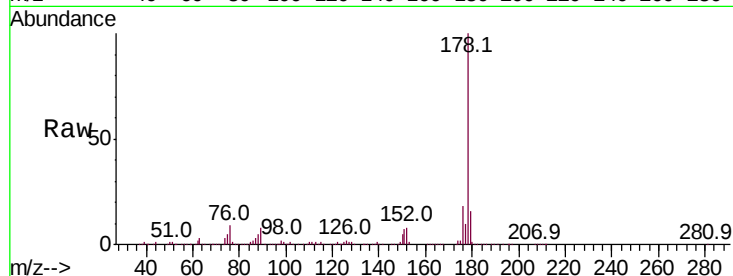
Tot Ion:178 Resp: 603226

Ion Ratio Lower Upper

178 100

176 18.4 14.6 22.0

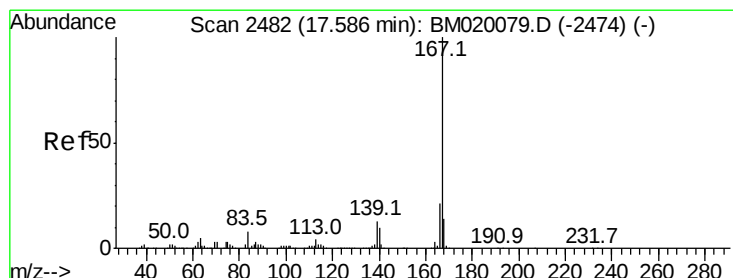
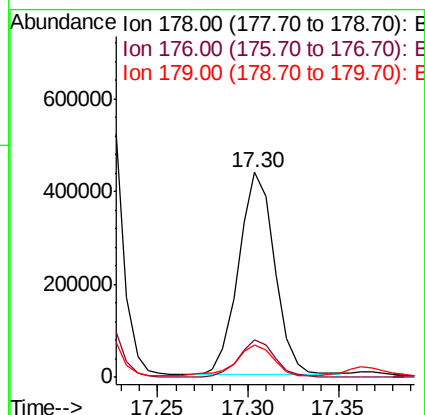
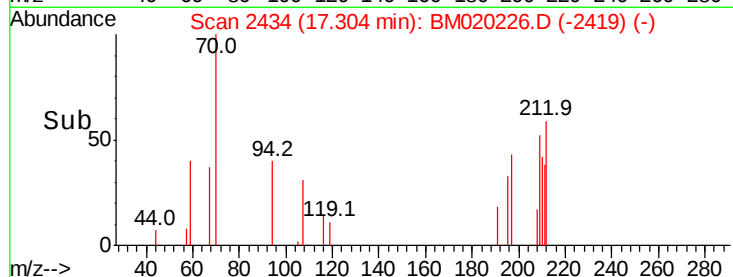
179 15.6 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 2.822 ng

RT: 17.58 min Scan# 2481

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

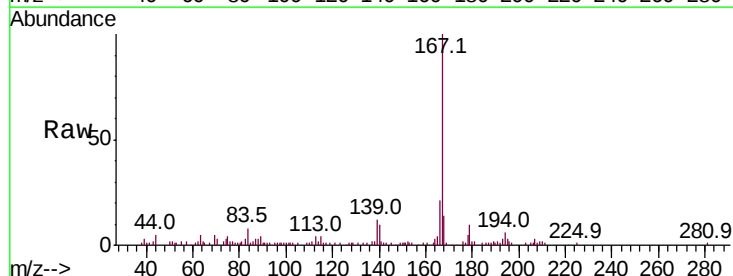
Tgt Ion:167 Resp: 97868

Ion Ratio Lower Upper

167 100

166 21.3 17.0 25.6

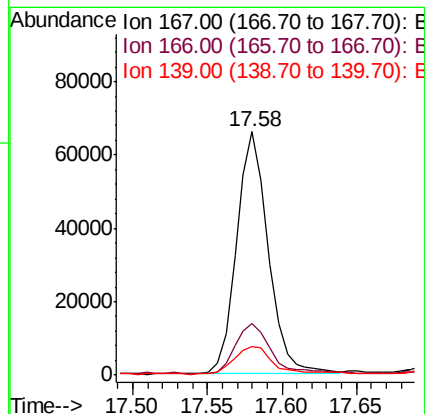
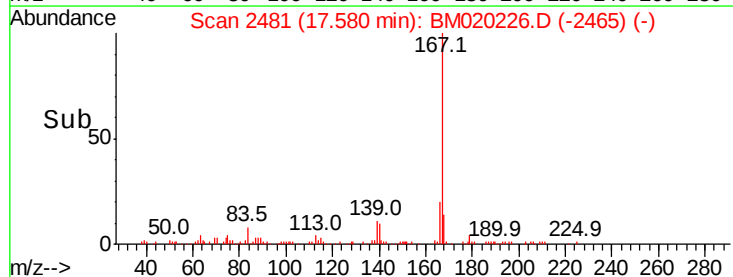
139 11.9 10.6 16.0

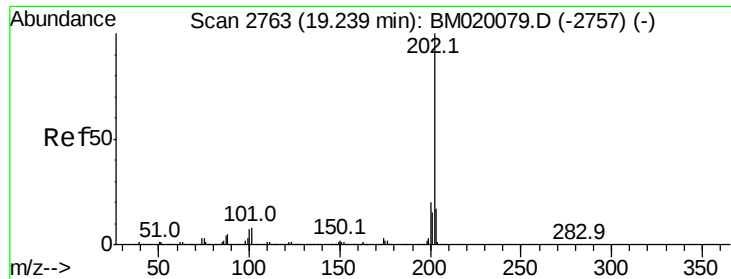


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 64.701 ng

RT: 19.23 min Scan# 2762

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

Instrument :

BNA_M

ClientSampleId :

CL-02-050719-EDL

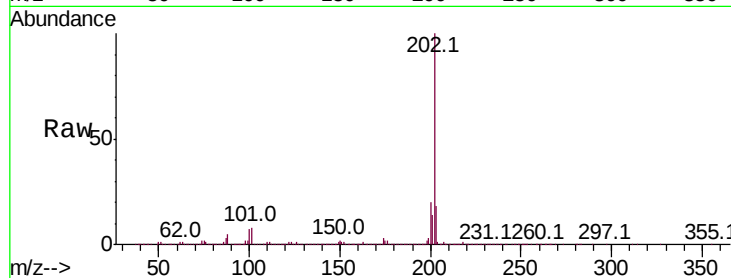
Tot Ion:202 Resp: 3146754

Ion Ratio Lower Upper

202 100

101 8.3 0.0 28.4

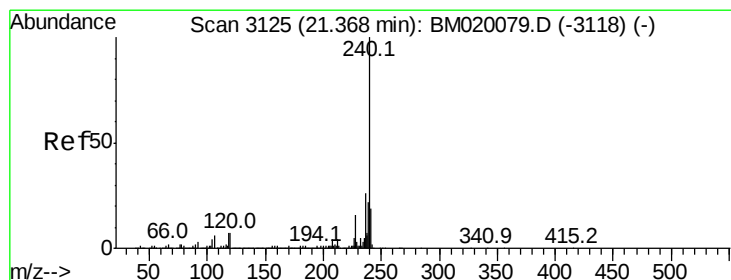
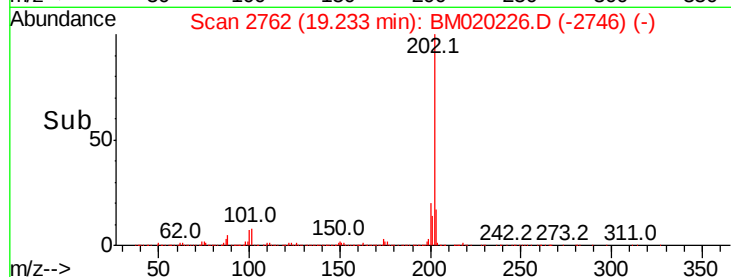
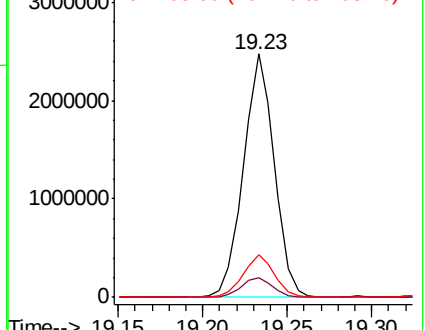
203 17.7 0.0 37.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.36 min Scan# 3124

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

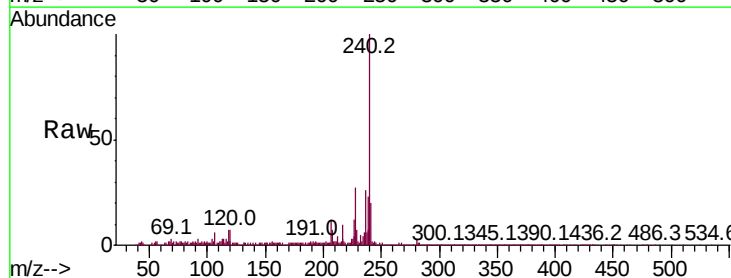
Tgt Ion:240 Resp: 764539

Ion Ratio Lower Upper

240 100

120 7.0 5.6 8.4

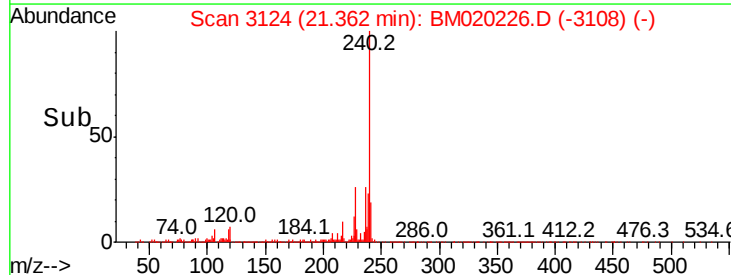
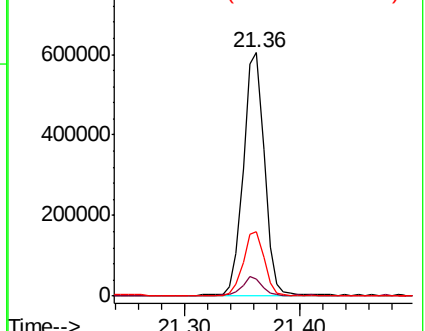
236 26.5 20.9 31.3

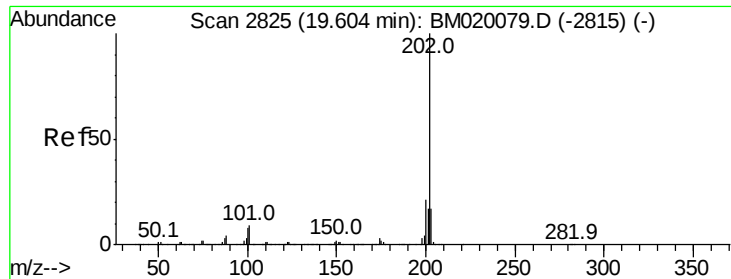


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

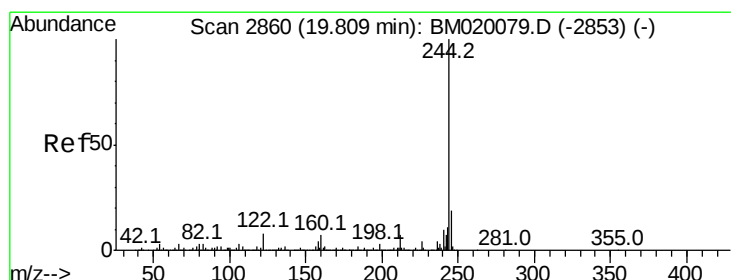
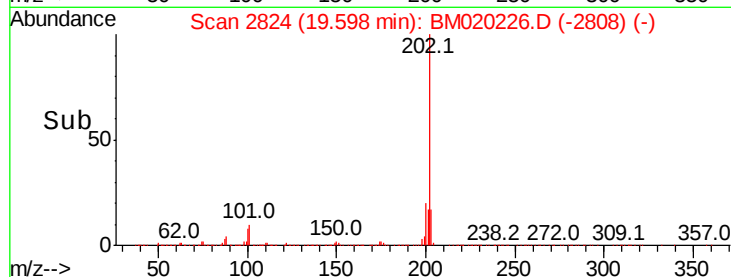
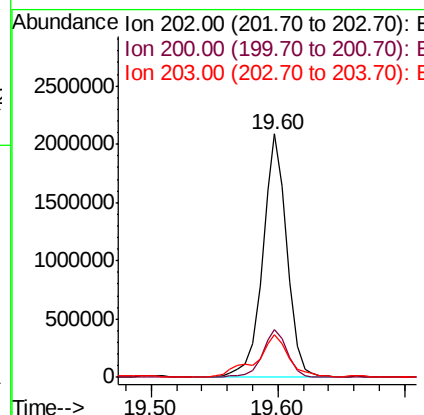
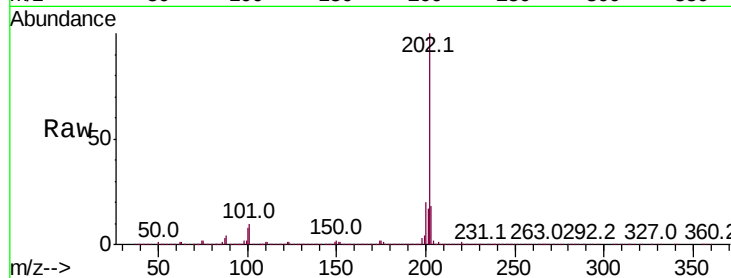




#78
Pvrene
Concen: 53.917 ng
RT: 19.60 min Scan# 2824
Delta R.T. -0.01 min
Lab File: BM020226.D
Acq: 09 May 2019 20:27

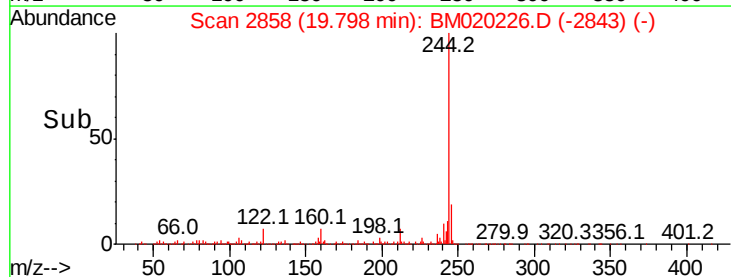
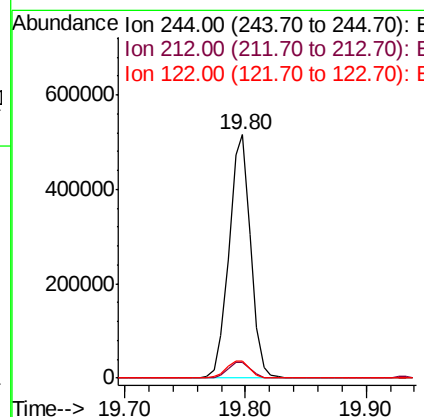
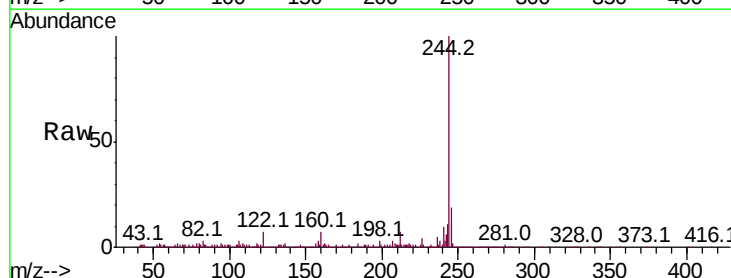
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-EDL

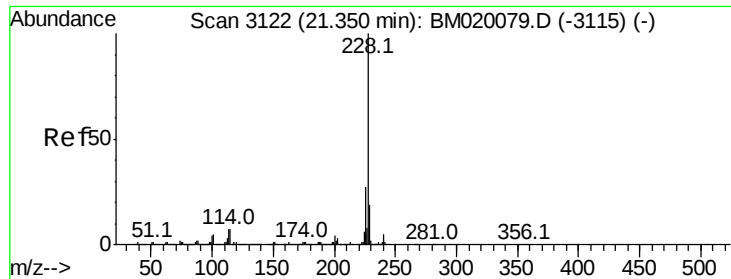
Tot Ion:202 Resp: 2767586
Ion Ratio Lower Upper
202 100
200 19.9 16.5 24.7
203 17.7 13.9 20.9



#79
Terphenyl-d14
Concen: 14.536 ng
RT: 19.80 min Scan# 2858
Delta R.T. -0.01 min
Lab File: BM020226.D
Acq: 09 May 2019 20:27

Tgt Ion:244 Resp: 637154
Ion Ratio Lower Upper
244 100
212 6.7 5.7 8.5
122 7.3 6.2 9.2





#81

Benzo(a)anthracene

Concen: 29.487 ng

RT: 21.34 min Scan# 3121

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

Instrument :

BNA_M

ClientSampleId :

CL-02-050719-EDL

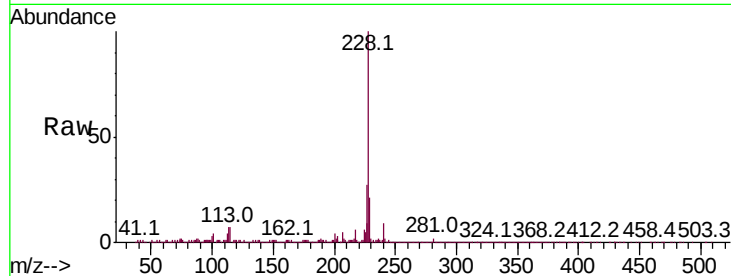
Tot Ion:228 Resp: 1580991

Ion Ratio Lower Upper

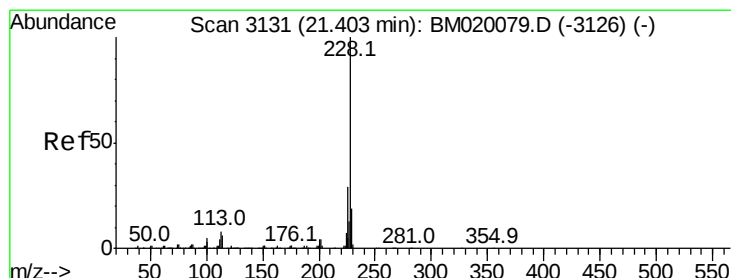
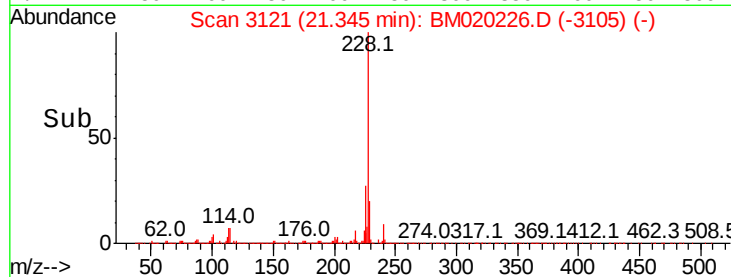
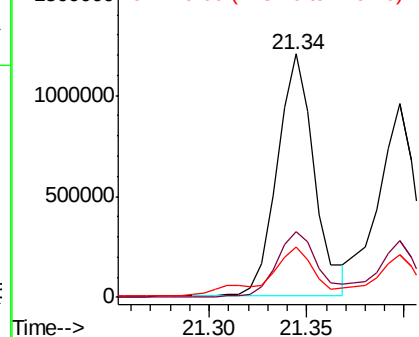
228 100

226 27.1 21.3 31.9

229 20.6 15.5 23.3



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 24.456 ng

RT: 21.40 min Scan# 3130

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

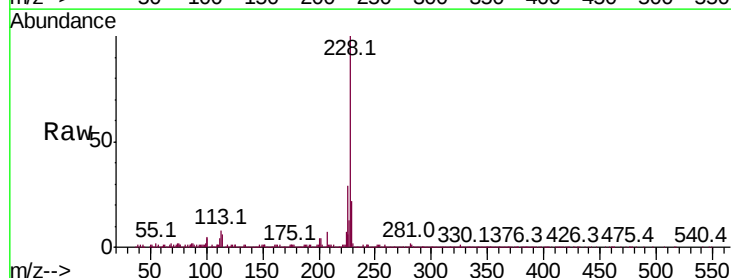
Tgt Ion:228 Resp: 1271681

Ion Ratio Lower Upper

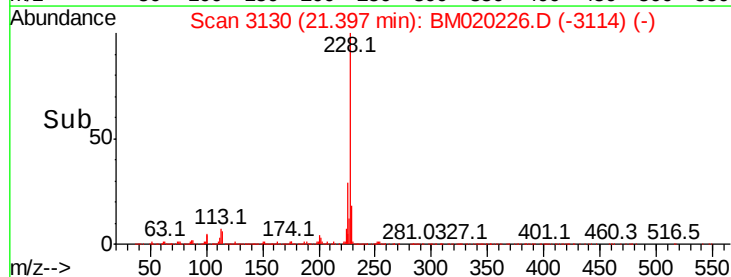
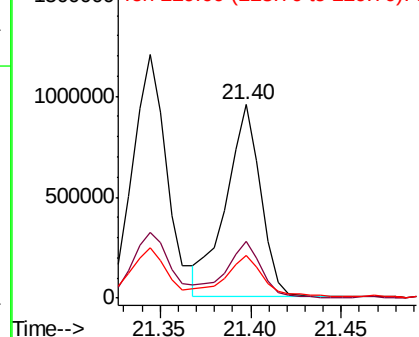
228 100

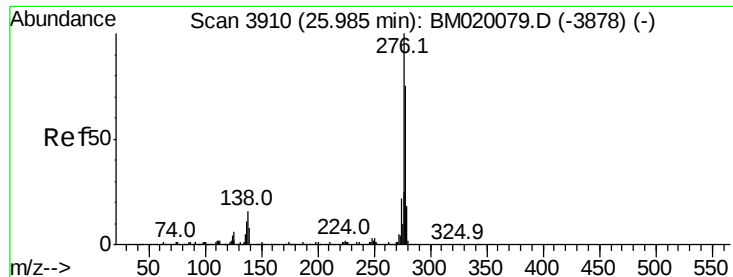
226 29.0 23.0 34.6

229 22.0 15.5 23.3



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

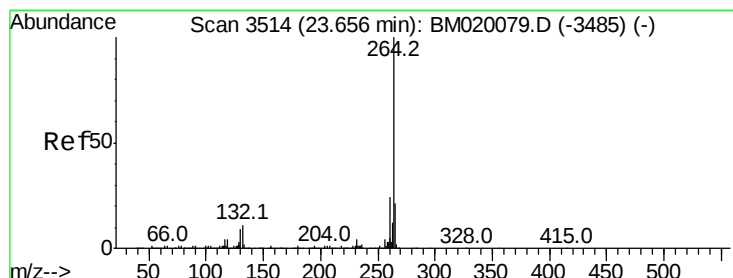
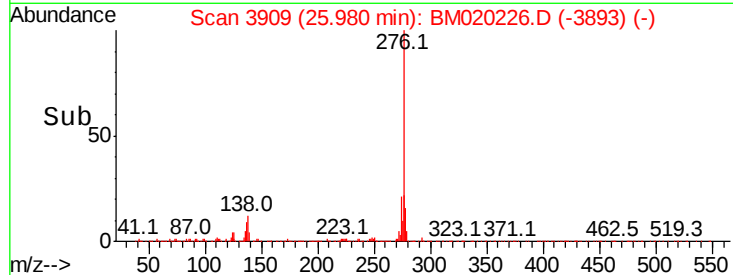
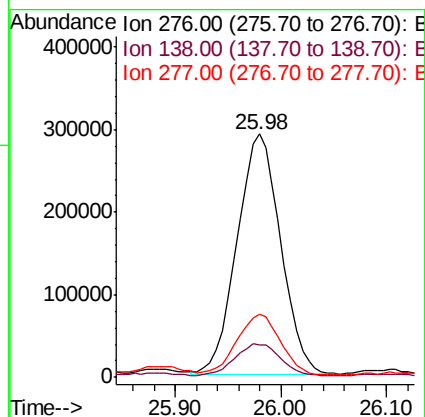
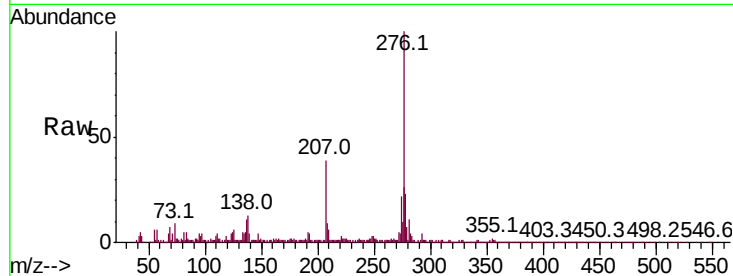




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 13.468 ng
 RT: 25.98 min Scan# 3909
 Delta R.T. -0.01 min
 Lab File: BM020226.D
 Acq: 09 May 2019 20:27

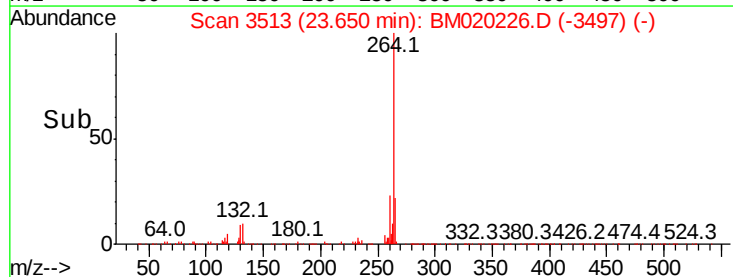
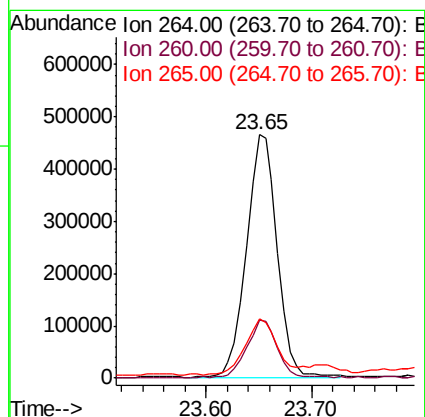
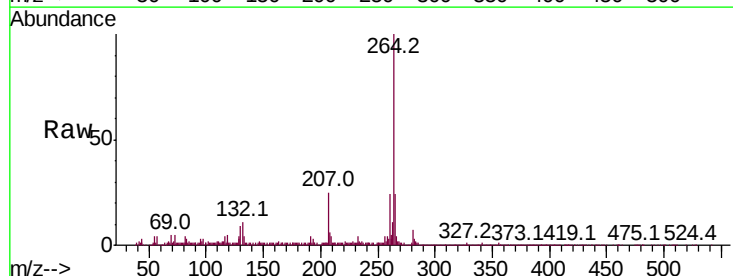
Instrument :
 BNA_M
 ClientSampleId :
 CL-02-050719-EDL

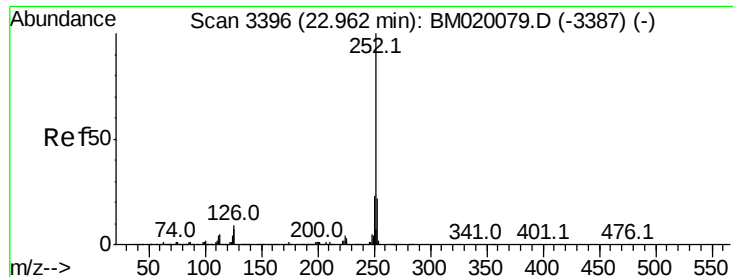
Tot Ion	Ratio	Lower	Upper
276	100		
138	13.9	0.0	0.0#
277	25.3	0.0	0.0#



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 23.65 min Scan# 3513
 Delta R.T. -0.01 min
 Lab File: BM020226.D
 Acq: 09 May 2019 20:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.2	28.8
265	24.2	16.9	25.3





#88

Benzo(b)fluoranthene

Concen: 28.867 ng

RT: 22.96 min Scan# 3395

Delta R.T. -0.01 min

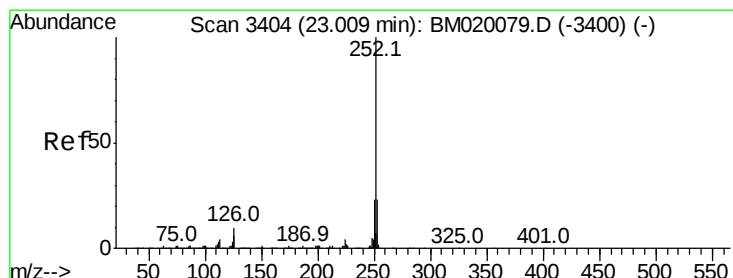
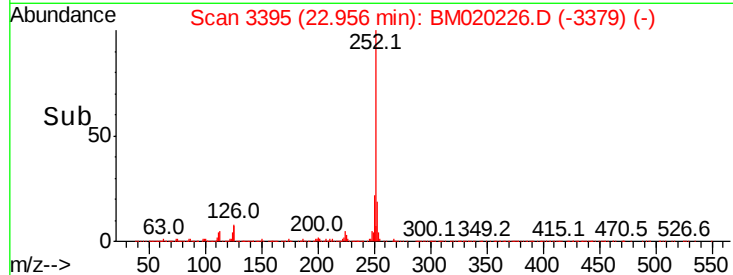
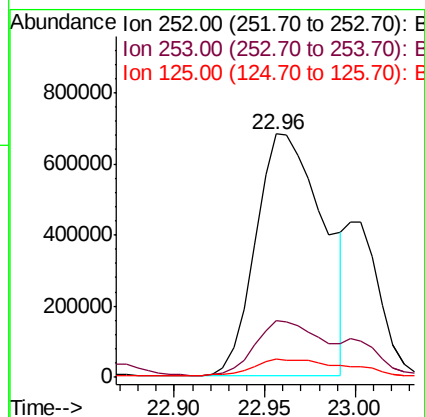
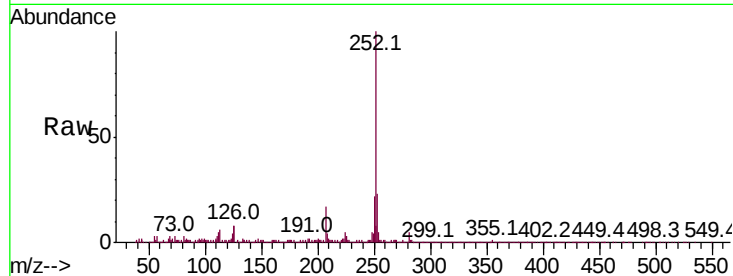
Lab File: BM020226.D

Acq: 09 May 2019 20:27

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-EDL

Tot Ion:252 Resp: 1775187

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.5	26.3
125	7.7	5.4	8.2



#89

Benzo(k)fluoranthene

Concen: 9.502 ng m

RT: 23.00 min Scan# 3402

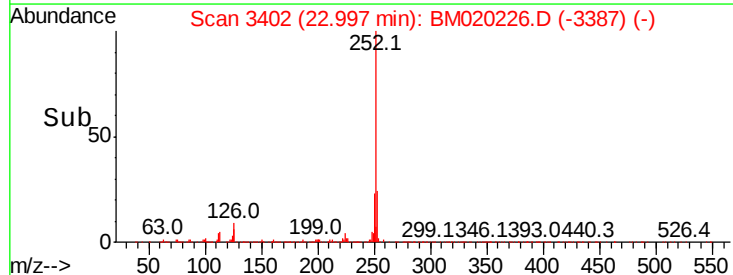
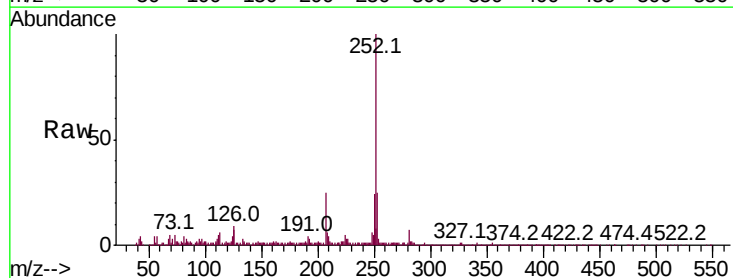
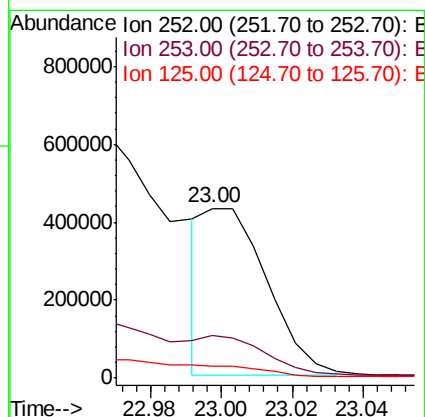
Delta R.T. -0.01 min

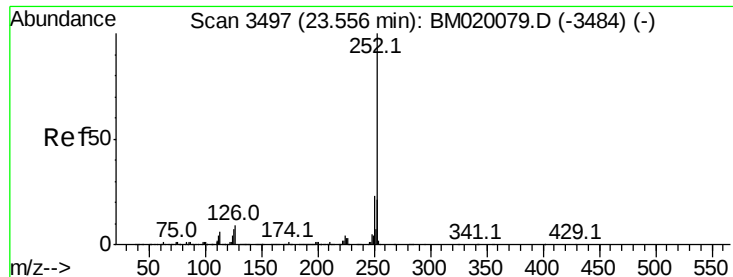
Lab File: BM020226.D

Acq: 09 May 2019 20:27

Tgt Ion:252 Resp: 533038

Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.8	26.8
125	7.3	5.4	8.0





#90

Benzo(a)pyrene

Concen: 24.407 ng

RT: 23.55 min Scan# 3496

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

Instrument :

BNA_M

ClientSampleId :

CL-02-050719-EDL

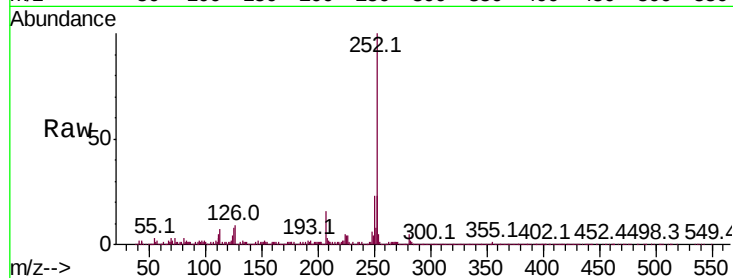
Tot Ion:252 Resp: 1363304

Ion Ratio Lower Upper

252 100

253 23.4 17.0 25.6

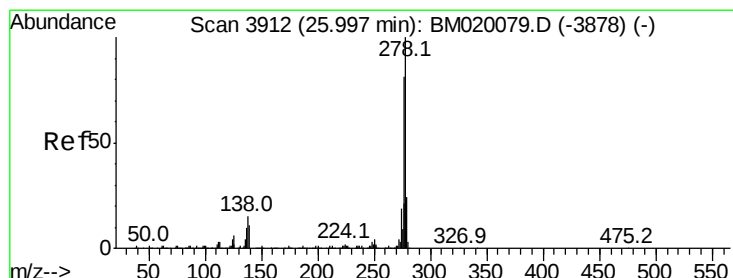
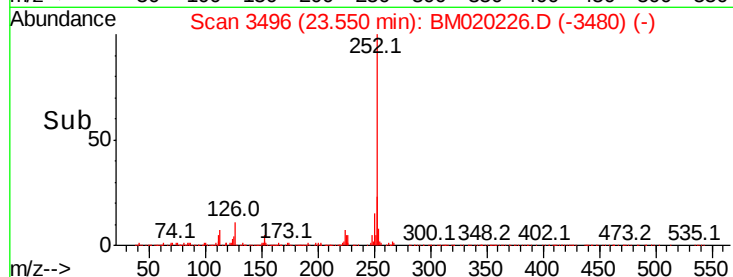
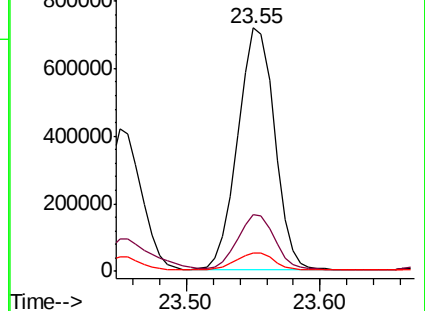
125 7.7 5.5 8.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 3.813 ng

RT: 25.98 min Scan# 3909

Delta R.T. -0.02 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

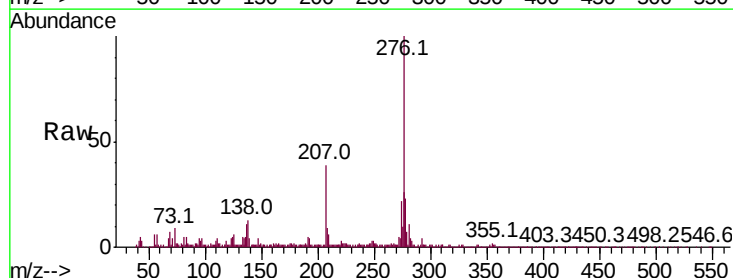
Tgt Ion:278 Resp: 221519

Ion Ratio Lower Upper

278 100

139 16.3 8.6 13.0#

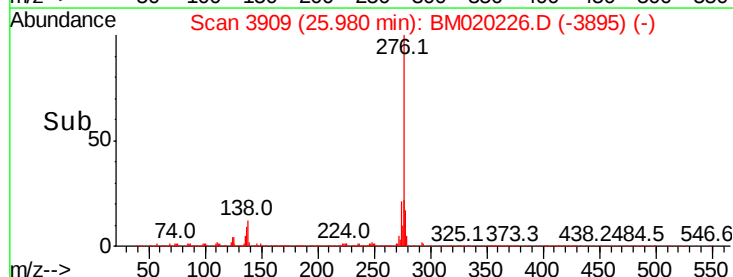
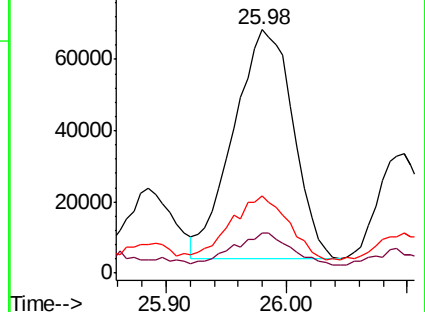
279 31.8 18.8 28.2#

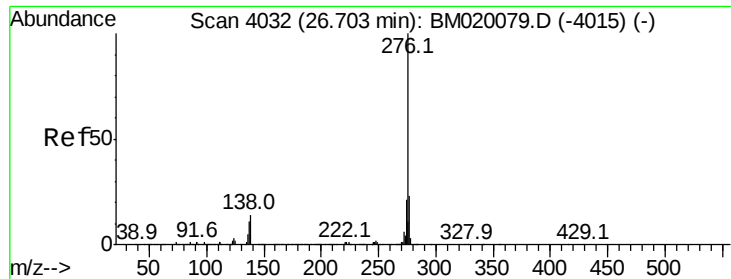


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(a,h,i)perylene

Concen: 14.238 ng

RT: 26.70 min Scan# 4031

Delta R.T. -0.01 min

Lab File: BM020226.D

Acq: 09 May 2019 20:27

Instrument :

BNA_M

ClientSampleId :

CL-02-050719-EDL

Tot Ion:276 Resp: 785219

Ion Ratio Lower Upper

276 100

277 25.5 18.4 27.6

138 14.1 11.1 16.7

