

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050919\
 Data File : BM020227.D
 Acq On : 09 May 2019 21:02
 Operator : JU/SJ
 Sample : K2645-01DL 50X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-02-050719-ADL

Quant Time: May 10 05:35:28 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	110892	20.00	ng	-0.01
21) Naphthalene-d8	10.57	136	420562	20.00	ng	-0.02
39) Acenaphthene-d10	14.42	164	255935	20.00	ng	-0.01
64) Phenanthrene-d10	17.17	188	606687	20.00	ng	0.00
76) Chrysene-d12	21.36	240	652899	20.00	ng	-0.01
87) Perylene-d12	23.65	264	801099	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.36	112	17359	2.56	ng	0.00
7) Phenol-d6	6.95	99	22055	2.38	ng	0.00
23) Nitrobenzene-d5	8.95	82	16078	1.51	ng	-0.01
42) 2,4,6-Tribromophenol	15.92	330	8861	2.23	ng	0.00
45) 2-Fluorobiphenyl	13.04	172	31286	1.50	ng	-0.02
79) Terphenyl-d14	19.79	244	55996	1.50	ng	-0.02

Target Compounds

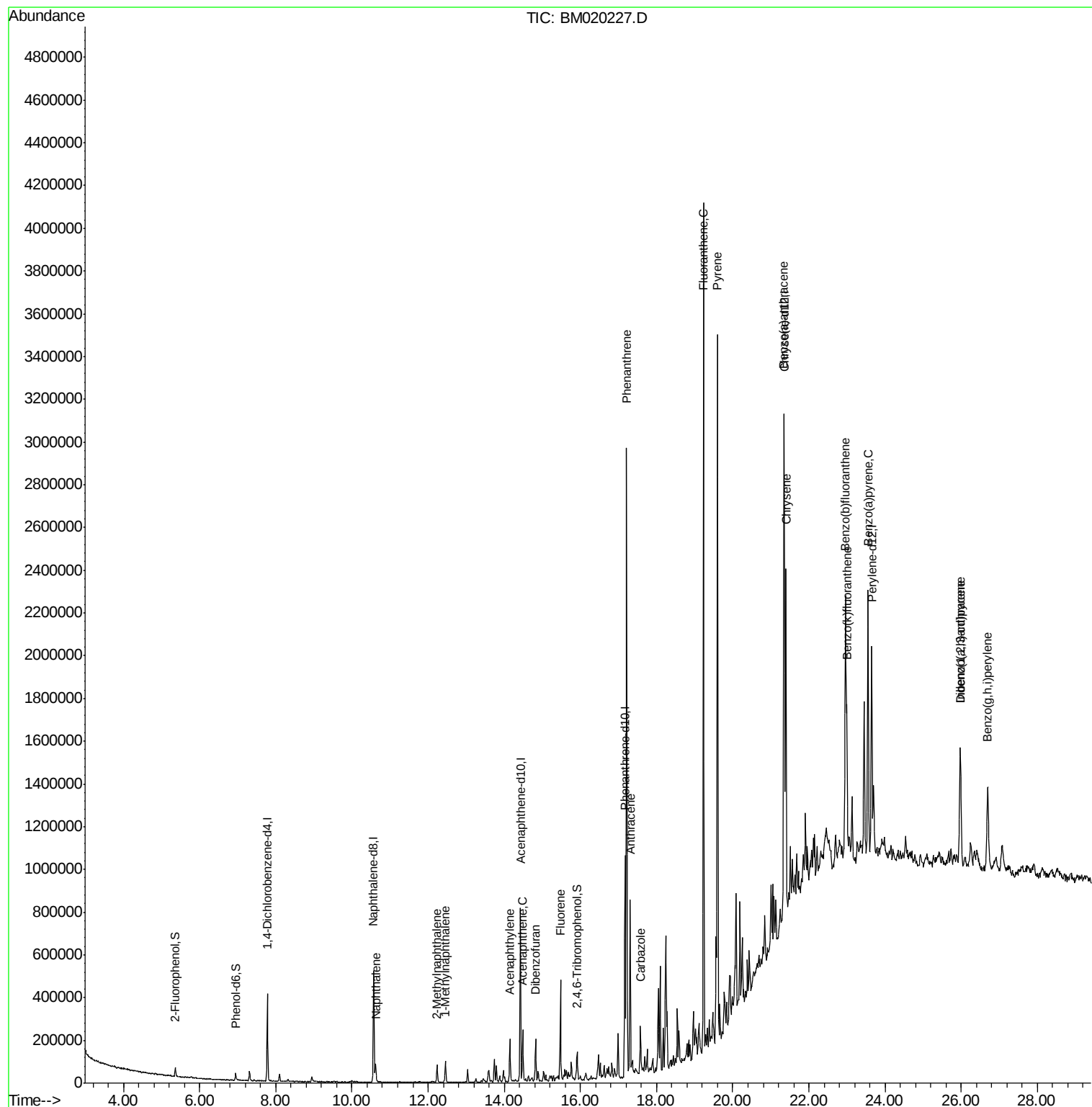
						Qvalue
31) Naphthalene	10.62	128	61609	2.823	ng	96
37) 2-Methylnaphthalene	12.24	142	39902	2.508	ng	# 92
38) 1-Methylnaphthalene	12.46	142	44220	2.842	ng	97
49) Acenaphthylene	14.15	152	133098	4.945	ng	98
52) Acenaphthene	14.49	154	83478	5.408	ng	98
55) Dibenzofuran	14.82	168	104513	4.014	ng	95
58) Fluorene	15.47	166	201375	9.417	ng	100
71) Phenanthrene	17.22	178	1649794	49.263	ng	99
72) Anthracene	17.30	178	488852	14.600	ng	99
73) Carbazole	17.58	167	134296	4.445	ng	99
75) Fluoranthene	19.23	202	2296886	54.207	ng	100
78) Pyrene	19.60	202	1974113	45.035	ng	99
81) Benzo(a)anthracene	21.34	228	1071570	23.403	ng	98
83) Chrysene	21.40	228	869975	19.591	ng	97
86) Indeno(1,2,3-cd)pyrene	25.98	276	572125	10.832	ng	# 100
88) Benzo(b)fluoranthene	22.96	252	1142090m	21.589	ng	
89) Benzo(k)fluoranthene	23.00	252	430558m	8.923	ng	
90) Benzo(a)pyrene	23.55	252	870564	18.118	ng	96
91) Dibenzo(a,h)anthracene	25.98	278	153700	3.076	ng	# 86
92) Benzo(a,h,i)perylene	26.70	276	539800	11.378	ng	96

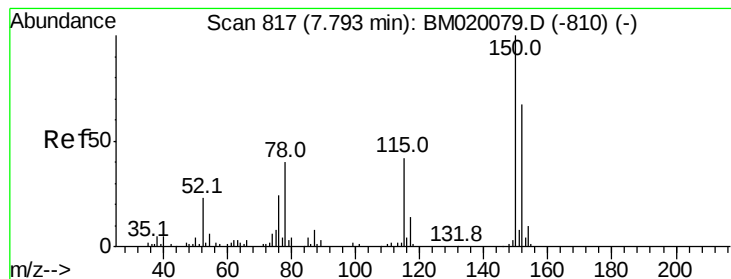
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

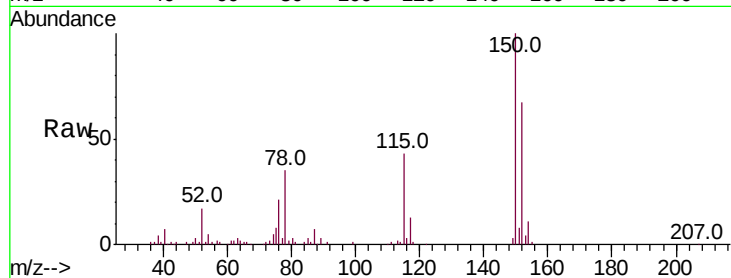
Tot Ion:152 Resp: 110892

Ion Ratio Lower Upper

152 100

150 149.8 119.8 179.8

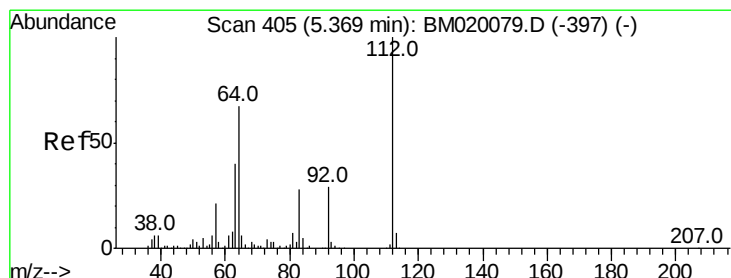
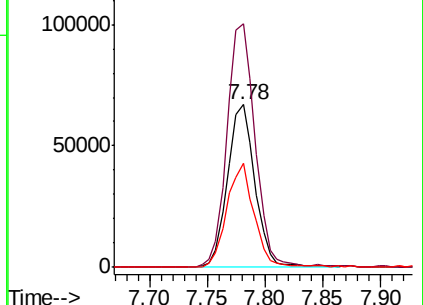
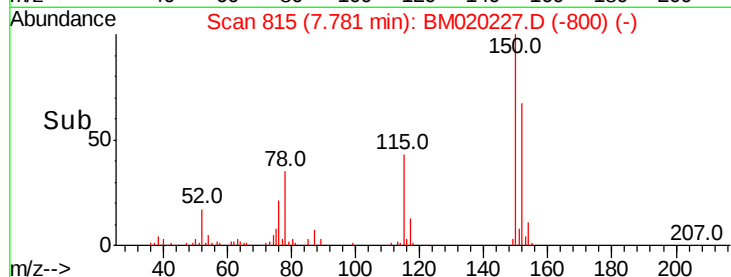
115 64.3 50.8 76.2



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



#5

2-Fluorophenol

Concen: 2.559 ng

RT: 5.36 min Scan# 404

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

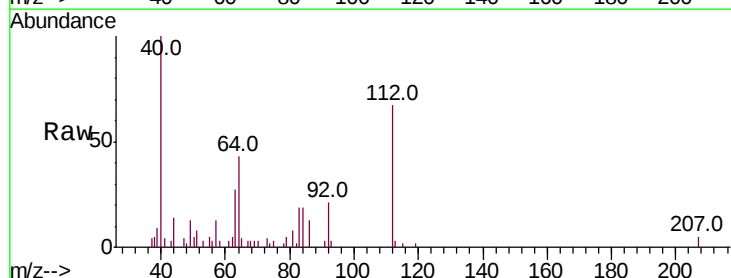
Tgt Ion:112 Resp: 17359

Ion Ratio Lower Upper

112 100

64 63.3 53.8 80.6

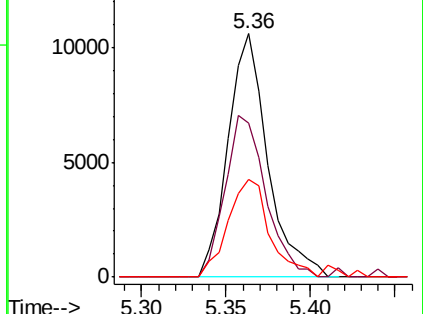
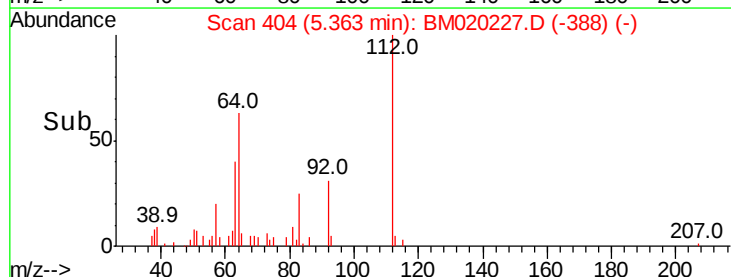
63 40.4 32.3 48.5

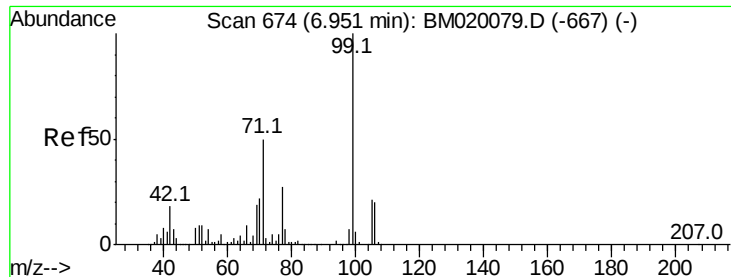


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 2.380 ng

RT: 6.95 min Scan# 673

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

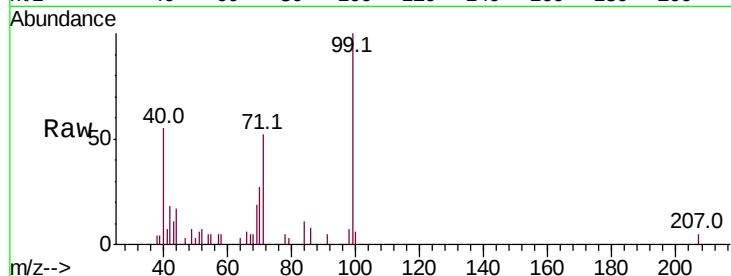
Tot Ion: 99 Resp: 22055

Ion Ratio Lower Upper

99 100

42 18.5 14.2 21.2

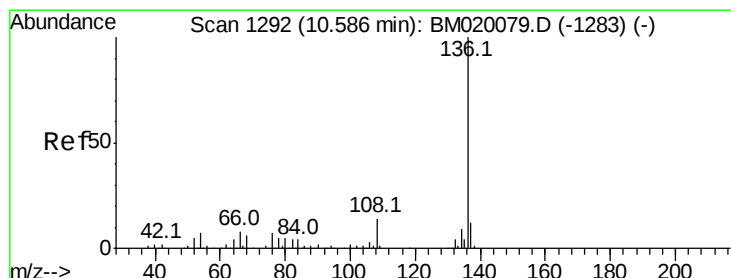
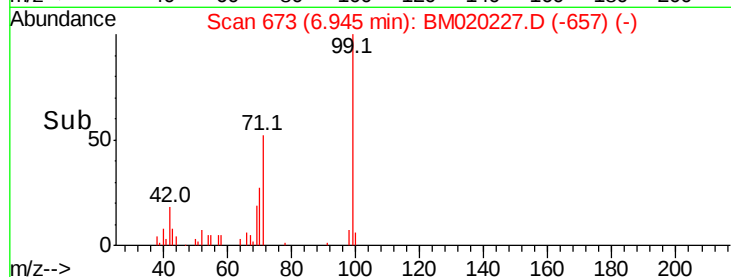
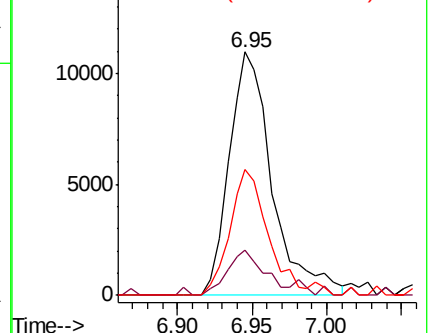
71 51.7 40.3 60.5



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: BM020227.D

Acq: 09 May 2019 21:02

Tgt Ion: 136 Resp: 420562

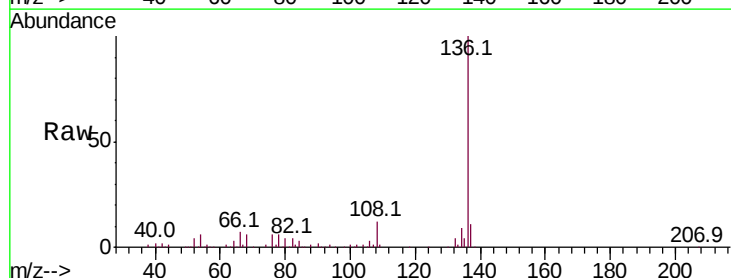
Ion Ratio Lower Upper

136 100

137 11.1 9.6 14.4

54 5.8 5.5 8.3

68 6.3 4.6 6.8

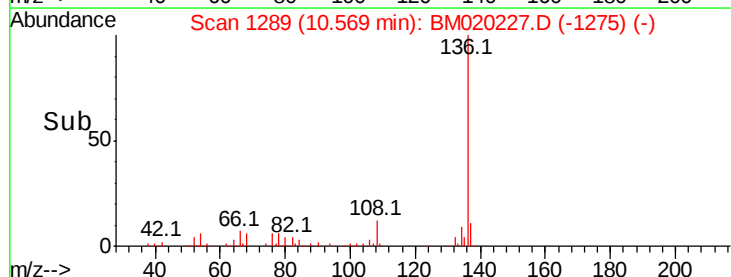
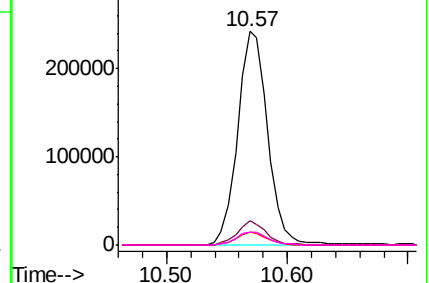


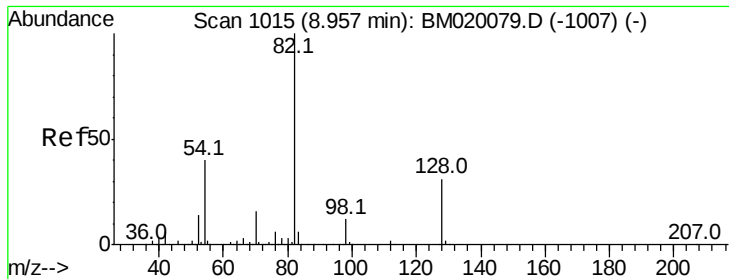
Abundance Ion 136.00 (135.70 to 136.70): BM020079.D (-1283) (-)

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) (-)

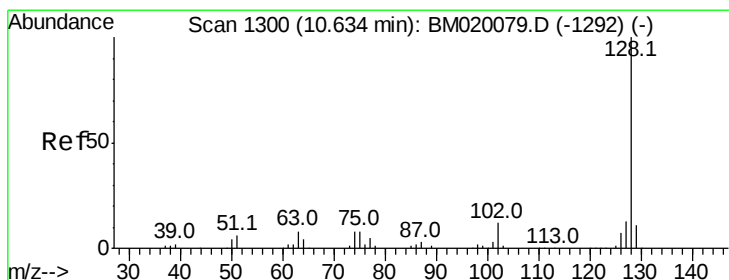
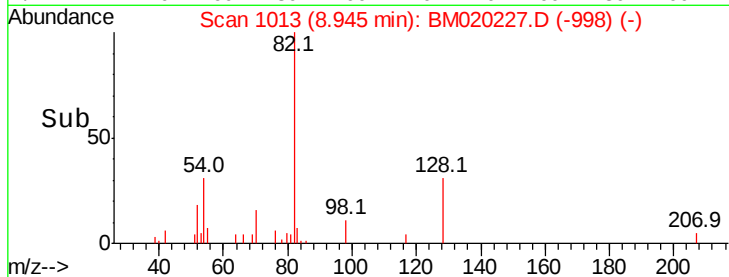
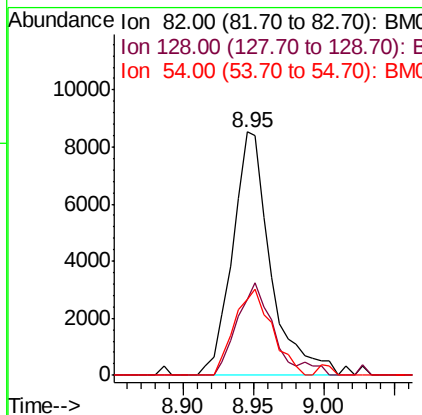
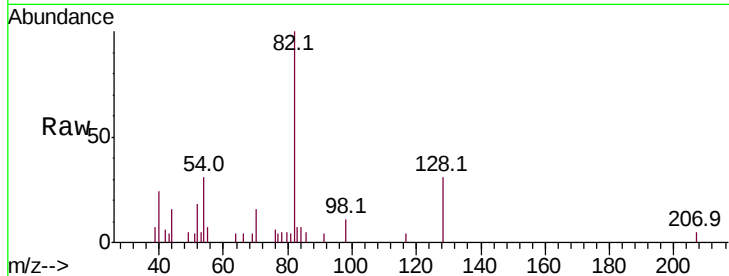




#23
Nitrobenzene-d5
Concen: 1.509 ng
RT: 8.95 min Scan# 1013
Delta R.T. -0.01 min
Lab File: BM020227.D
Acq: 09 May 2019 21:02

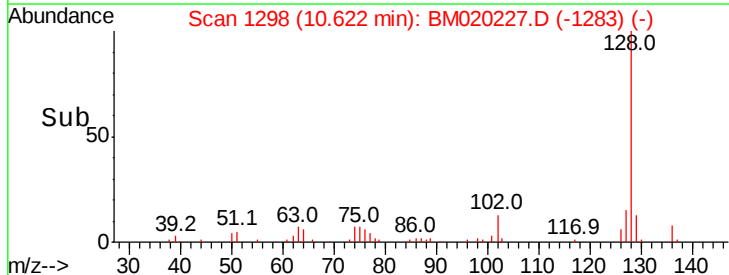
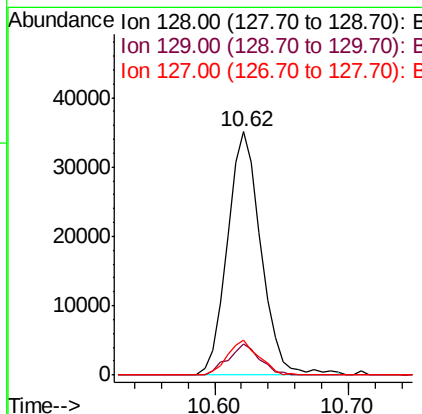
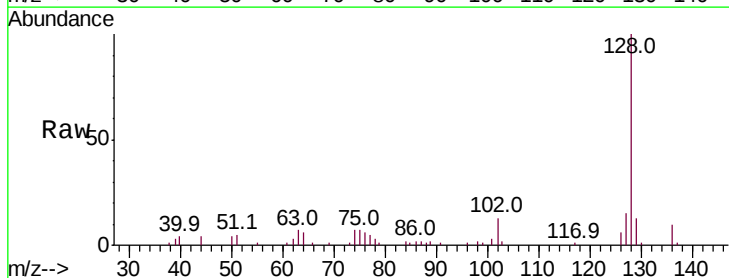
Instrument :
BNA_M
ClientSampleId :
PL-02-050719-ADL

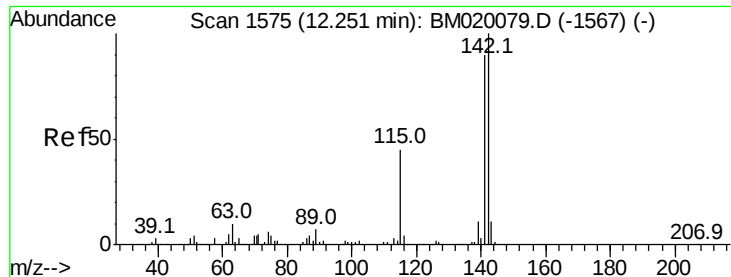
Tot Ion: 82 Resp: 16078
Ion Ratio Lower Upper
82 100
128 31.2 25.2 37.8
54 31.1 31.9 47.9#



#31
Naphthalene
Concen: 2.823 ng
RT: 10.62 min Scan# 1298
Delta R.T. -0.01 min
Lab File: BM020227.D
Acq: 09 May 2019 21:02

Tgt Ion: 128 Resp: 61609
Ion Ratio Lower Upper
128 100
129 12.8 9.0 13.4
127 14.6 10.4 15.6





#37

2-Methylnaphthalene

Concen: 2.508 ng

RT: 12.24 min Scan# 1573

Delta R.T. -0.01 min

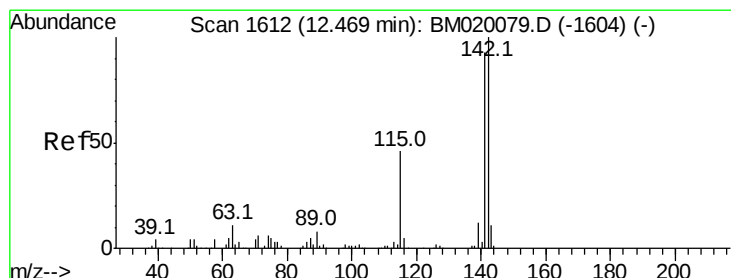
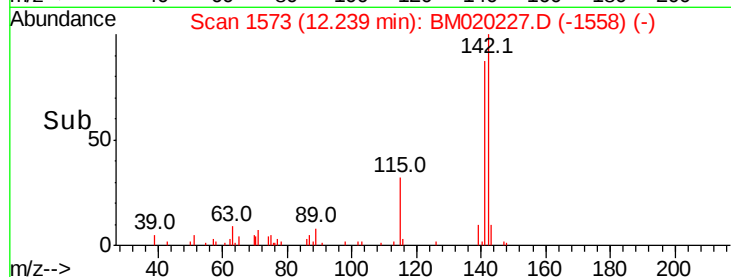
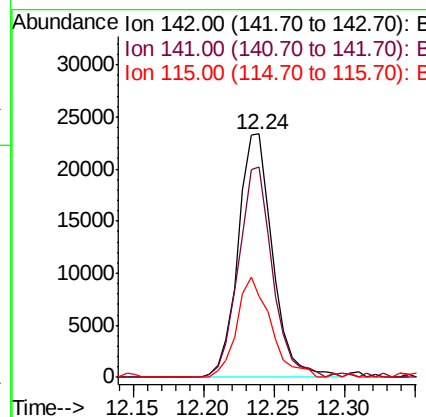
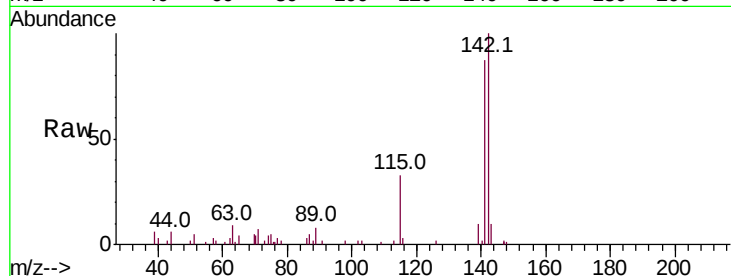
Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :
BNA_M
ClientSampleId :
PL-02-050719-ADL

Tot Ion:142 Resp: 39902

Ion	Ratio	Lower	Upper
142	100		
141	86.6	71.6	107.4
115	33.4	35.8	53.6#



#38

1-Methylnaphthalene

Concen: 2.842 ng

RT: 12.46 min Scan# 1610

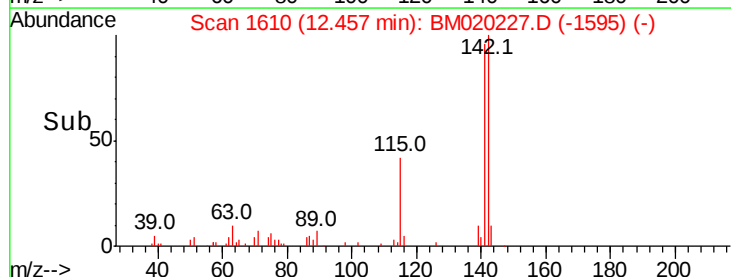
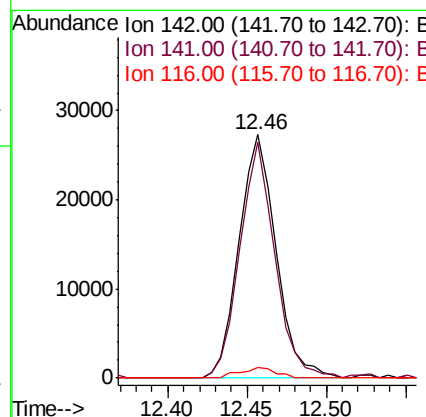
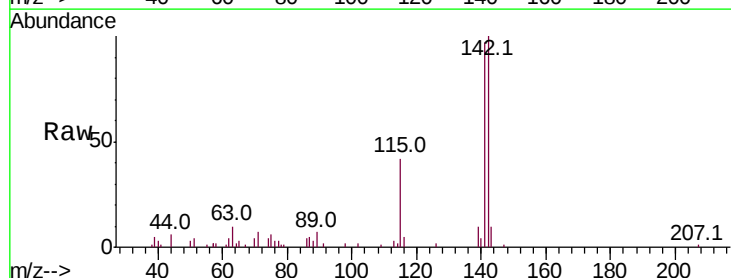
Delta R.T. -0.01 min

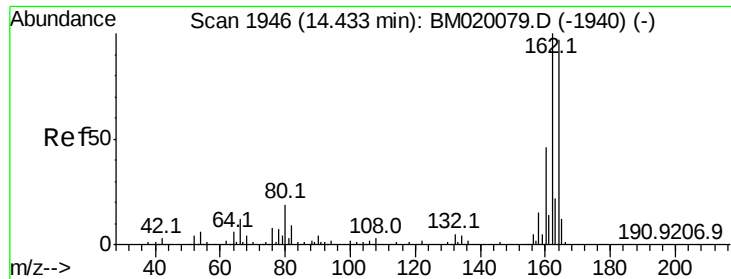
Lab File: BM020227.D

Acq: 09 May 2019 21:02

Tgt Ion:142 Resp: 44220

Ion	Ratio	Lower	Upper
142	100		
141	96.8	74.8	112.2
116	4.6	3.9	5.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.42 min Scan# 1944

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

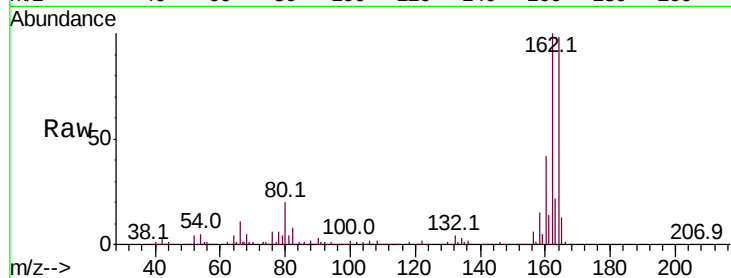
Tot Ion:164 Resp: 255935

Ion Ratio Lower Upper

164 100

162 102.2 82.2 123.2

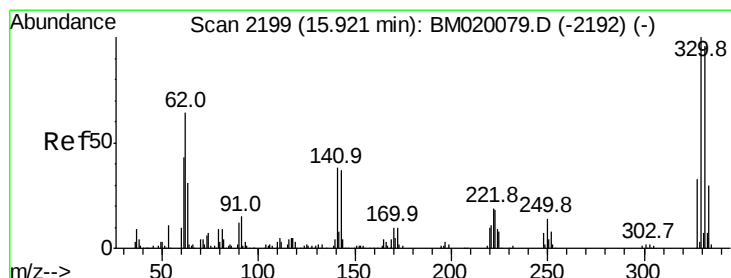
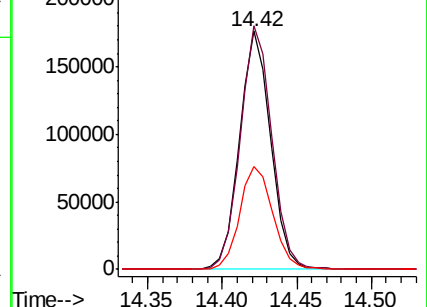
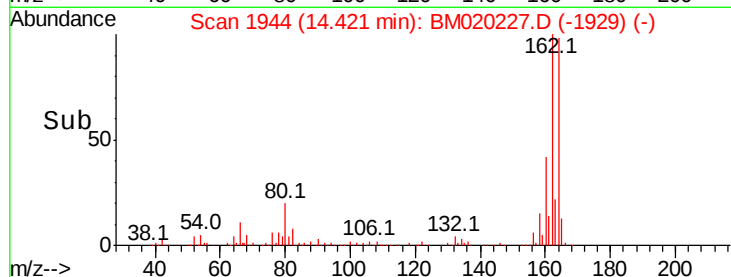
160 43.0 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 2.231 ng

RT: 15.92 min Scan# 2199

Delta R.T. -0.00 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

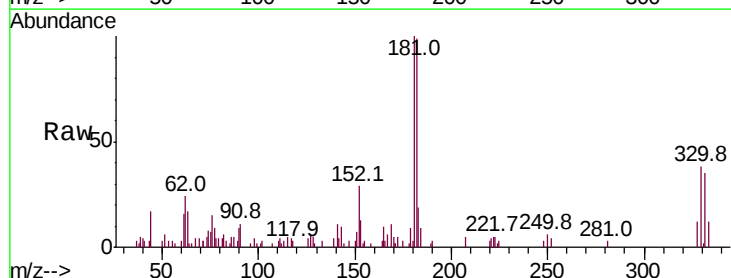
Tgt Ion:330 Resp: 8861

Ion Ratio Lower Upper

330 100

332 94.6 76.8 115.2

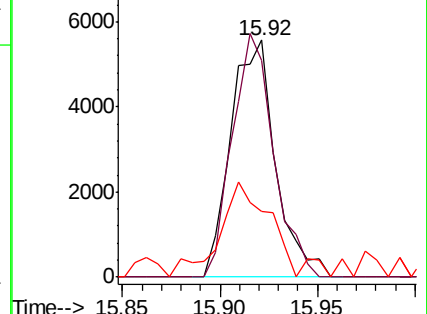
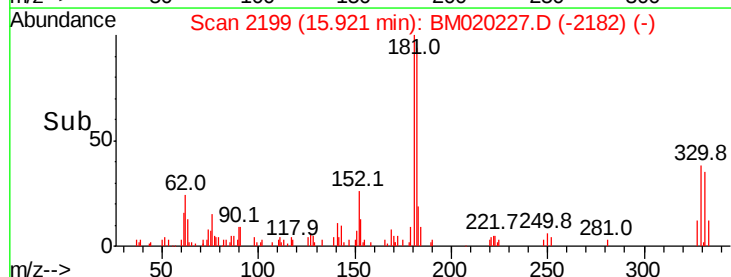
141 47.2 29.2 43.8#

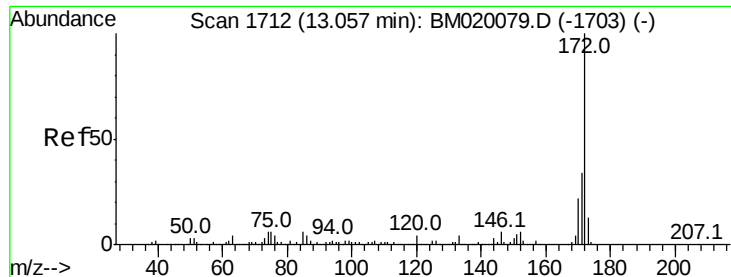


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

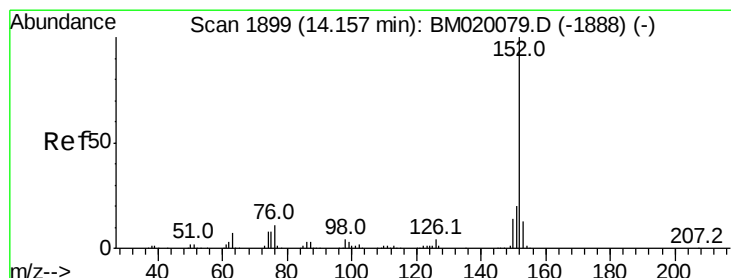
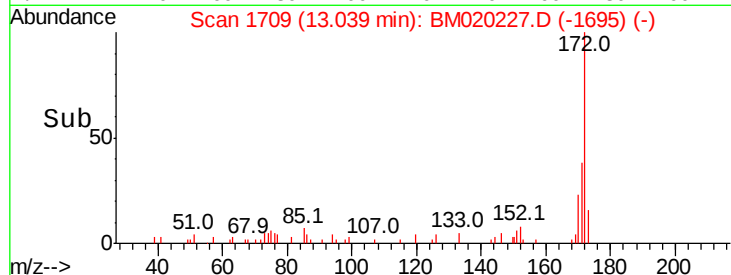
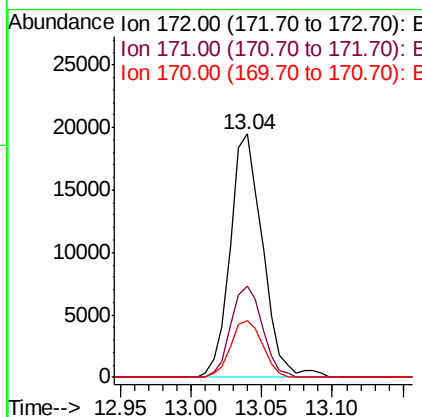
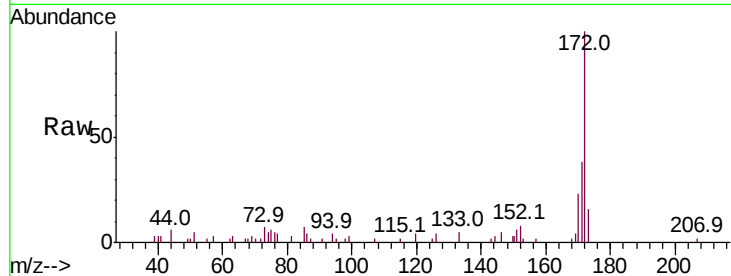




#45
2-Fluorobiphenyl
Concen: 1.504 ng
RT: 13.04 min Scan# 1709
Delta R.T. -0.02 min
Lab File: BM020227.D
Acq: 09 May 2019 21:02

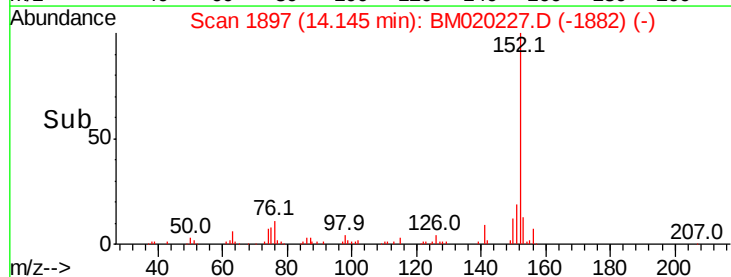
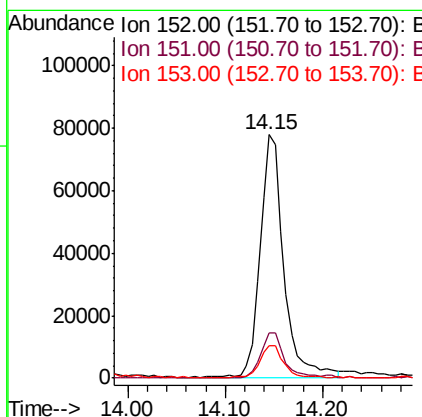
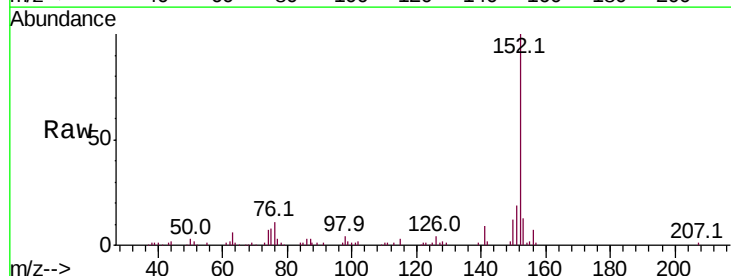
Instrument :
BNA_M
ClientSampleId :
PL-02-050719-ADL

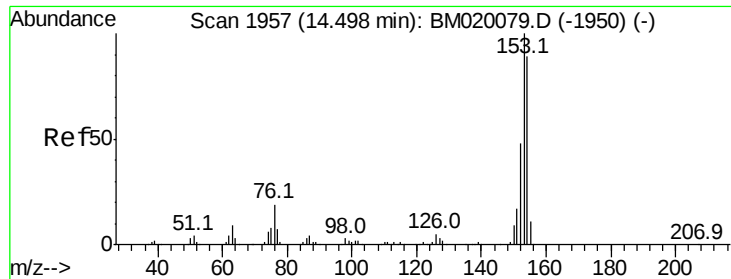
Tot Ion:172 Resp: 31286
Ion Ratio Lower Upper
172 100
171 37.5 27.3 40.9
170 23.1 17.9 26.9



#49
Acenaphthylene
Concen: 4.945 ng
RT: 14.15 min Scan# 1897
Delta R.T. -0.01 min
Lab File: BM020227.D
Acq: 09 May 2019 21:02

Tgt Ion:152 Resp: 133098
Ion Ratio Lower Upper
152 100
151 18.7 16.2 24.2
153 13.4 10.6 16.0





#52

Acenaphthene

Concen: 5.408 ng

RT: 14.49 min Scan# 1955

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

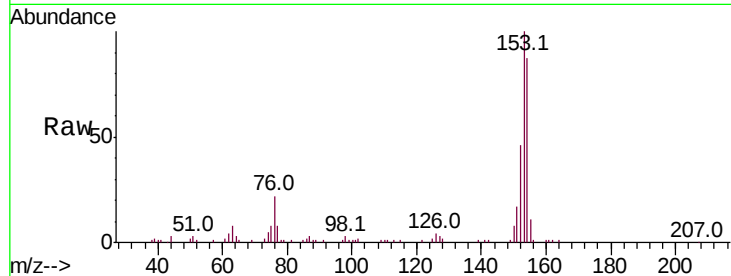
Tot Ion:154 Resp: 83478

Ion Ratio Lower Upper

154 100

153 114.9 90.2 135.2

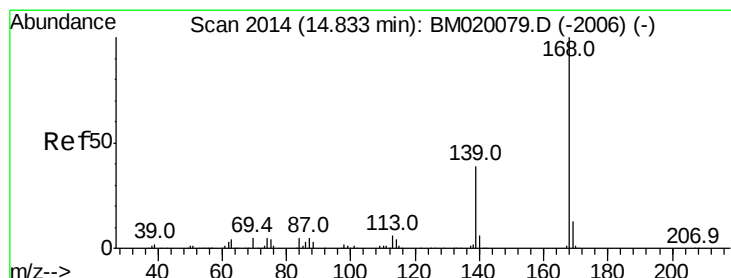
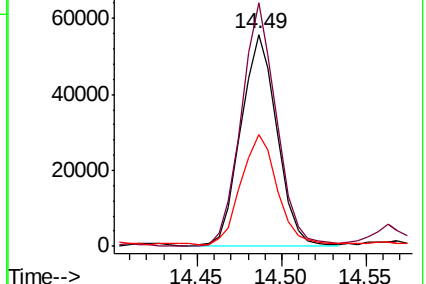
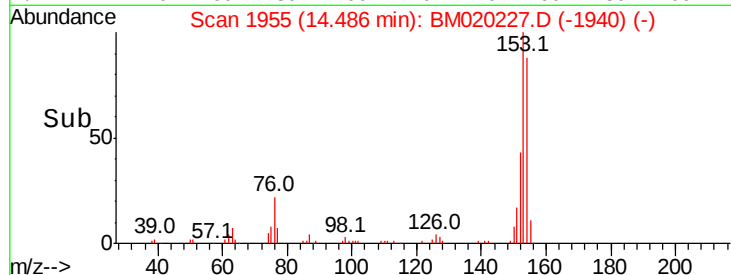
152 52.5 43.0 64.4



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

Dibenzofuran

Concen: 4.014 ng

RT: 14.82 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

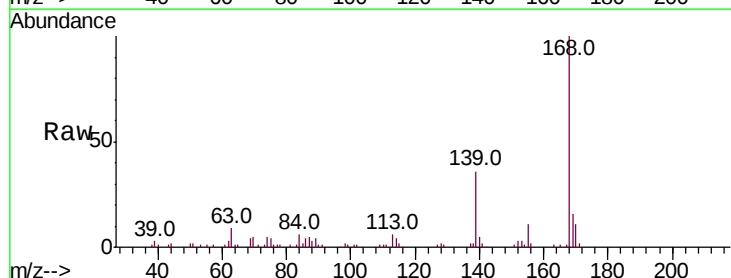
Tgt Ion:168 Resp: 104513

Ion Ratio Lower Upper

168 100

139 36.4 31.1 46.7

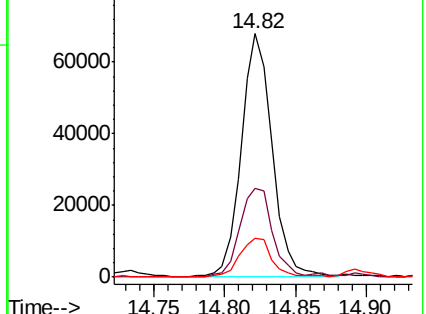
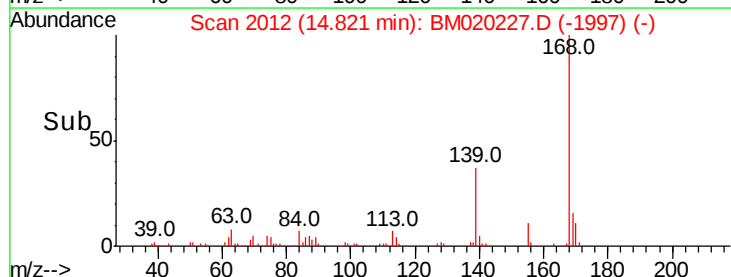
169 15.8 10.6 16.0

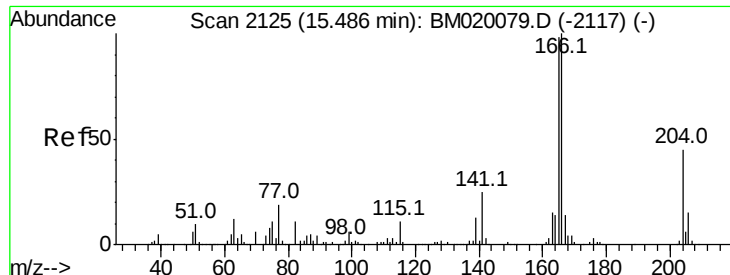


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#58

Fluorene

Concen: 9.417 ng

RT: 15.47 min Scan# 2123

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

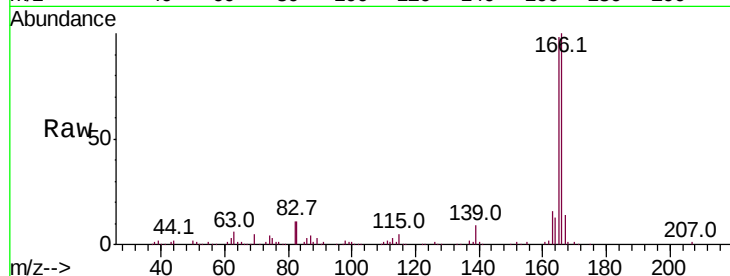
Tot Ion:166 Resp: 201375

Ion Ratio Lower Upper

166 100

165 97.9 78.2 117.2

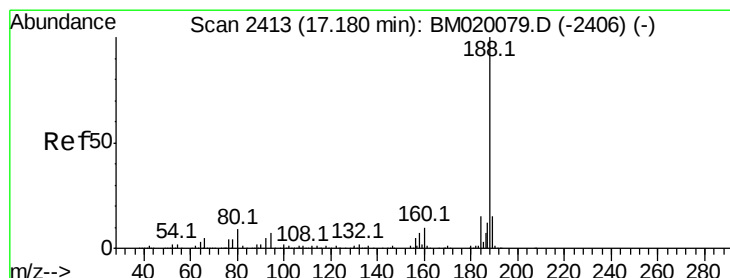
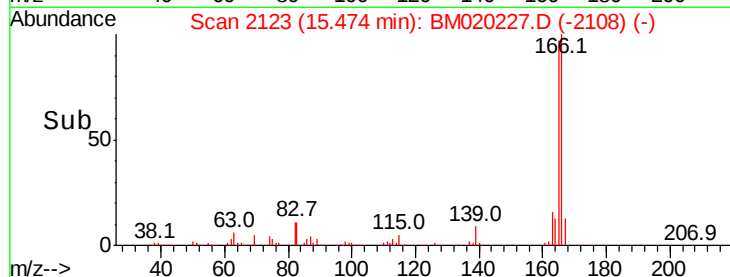
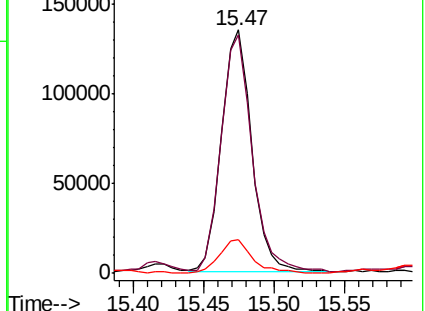
167 14.1 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.17 min Scan# 2412

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

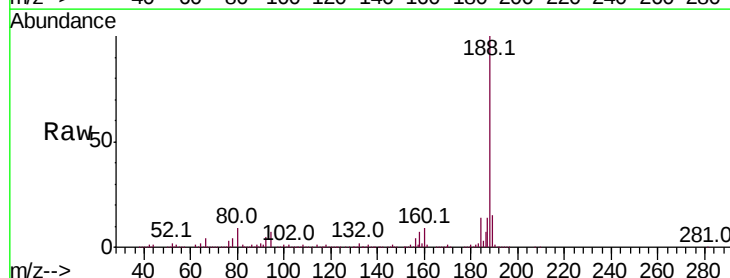
Tgt Ion:188 Resp: 606687

Ion Ratio Lower Upper

188 100

94 7.3 5.8 8.6

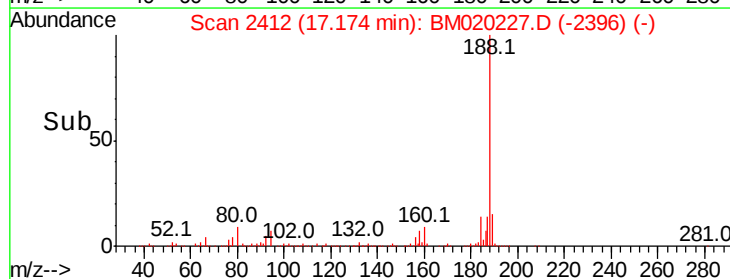
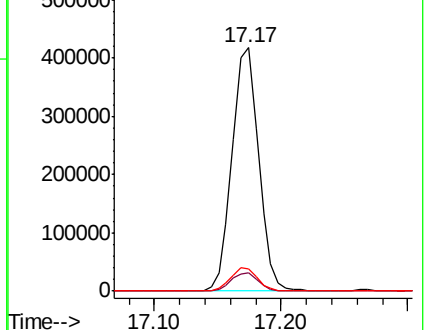
80 9.1 7.4 11.2

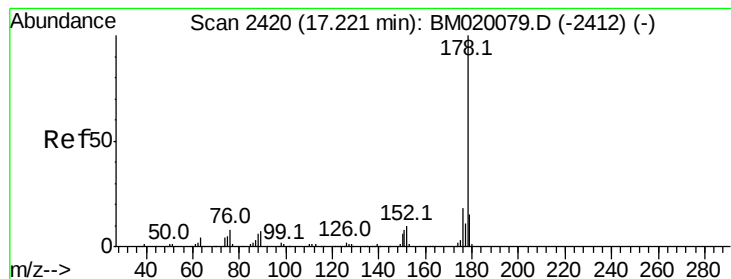


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0





#71

Phenanthrene

Concen: 49.263 ng

RT: 17.22 min Scan# 2419

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

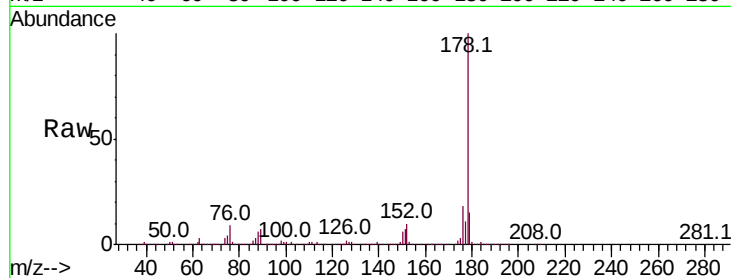
Tot Ion:178 Resp: 1649794

Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

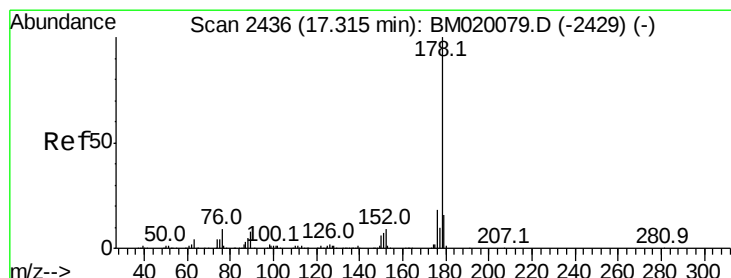
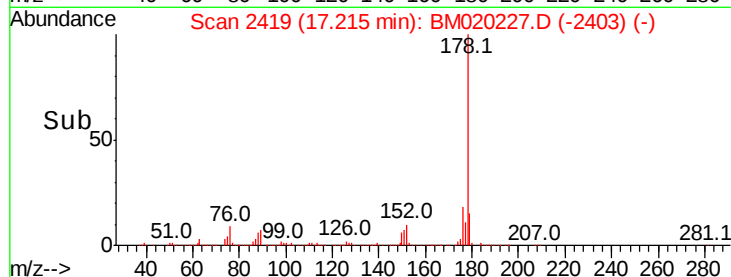
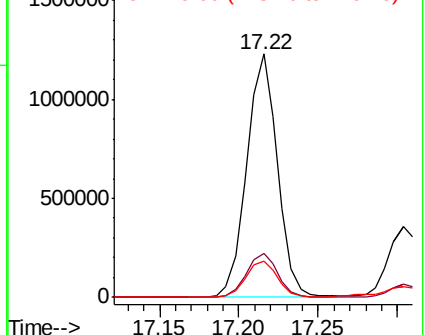
179 15.0 12.4 18.6



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



#72

Anthracene

Concen: 14.600 ng

RT: 17.30 min Scan# 2434

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

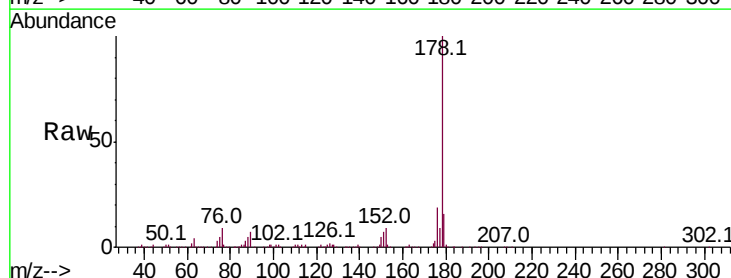
Tgt Ion:178 Resp: 488852

Ion Ratio Lower Upper

178 100

176 18.6 14.6 22.0

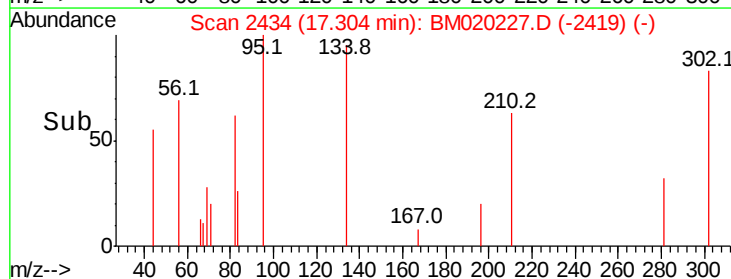
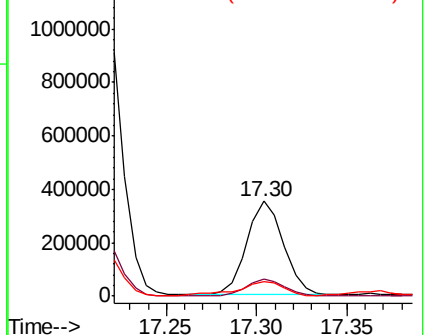
179 15.9 12.4 18.6

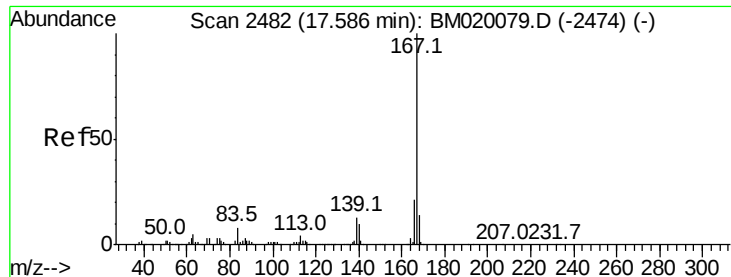


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

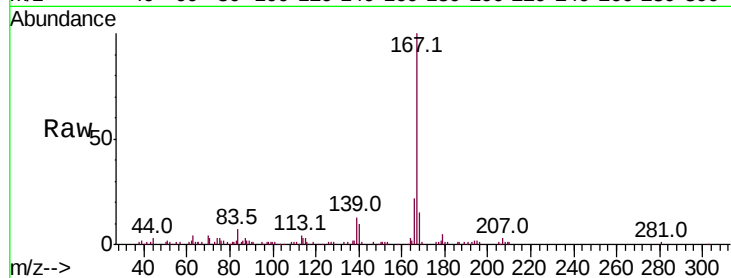




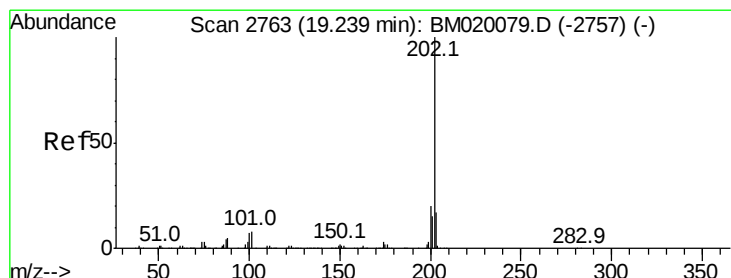
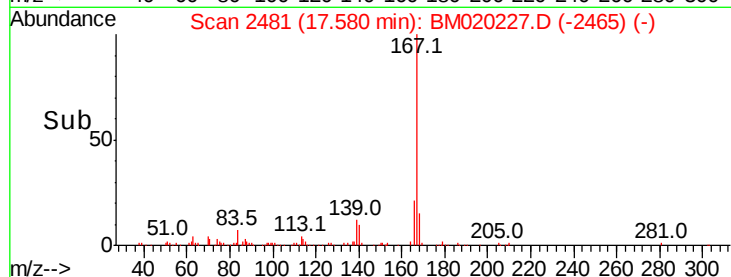
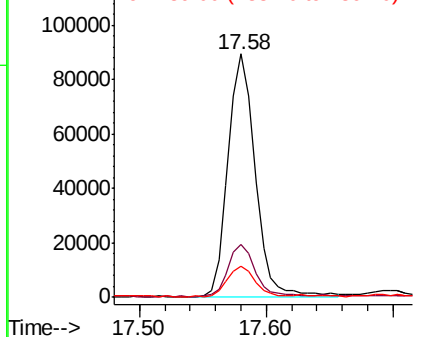
#73
 Carbazole
 Concen: 4.445 ng
 RT: 17.58 min Scan# 2481
 Delta R.T. -0.01 min
 Lab File: BM020227.D
 Acq: 09 May 2019 21:02

Instrument :
 BNA_M
 ClientSampleId :
 PL-02-050719-ADL

Tot Ion:	167	Resp:	134296
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	12.9	10.6	16.0

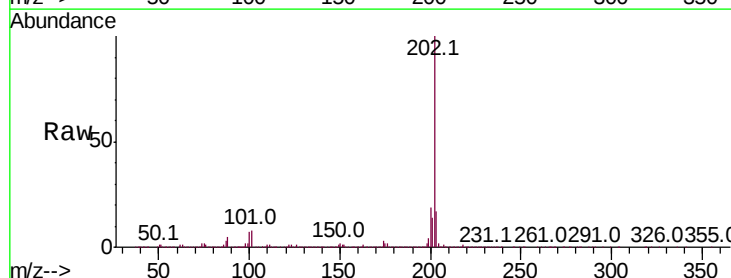


Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

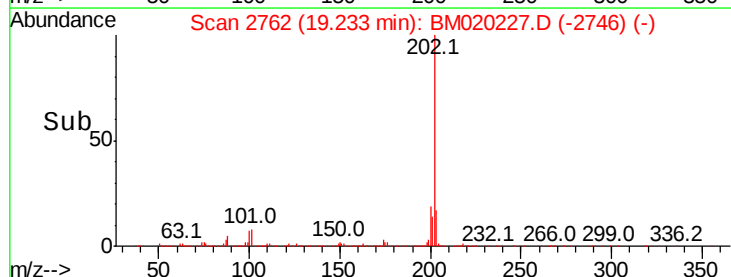
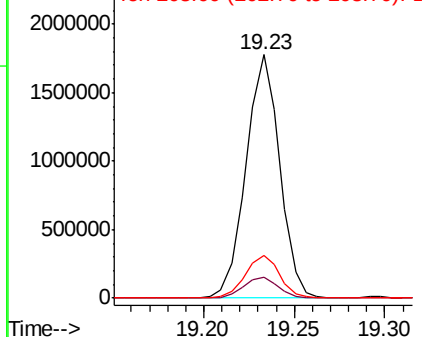


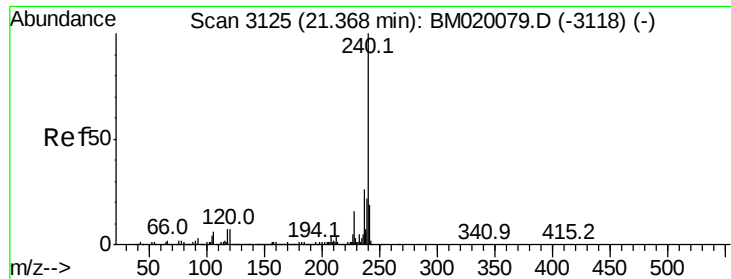
#75
 Fluoranthene
 Concen: 54.207 ng
 RT: 19.23 min Scan# 2762
 Delta R.T. -0.01 min
 Lab File: BM020227.D
 Acq: 09 May 2019 21:02

Tgt Ion:	202	Resp:	2296886
Ion	Ratio	Lower	Upper
202	100		
101	8.5	0.0	28.4
203	17.4	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

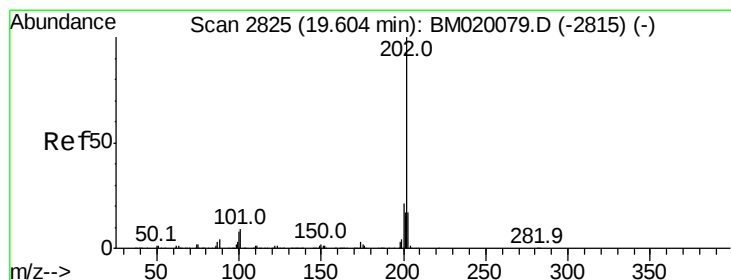
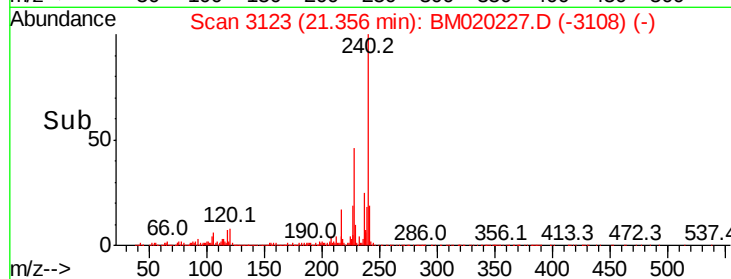
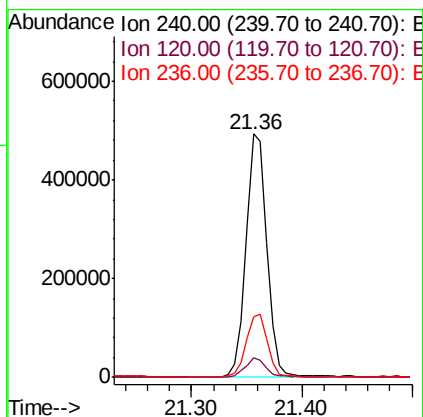
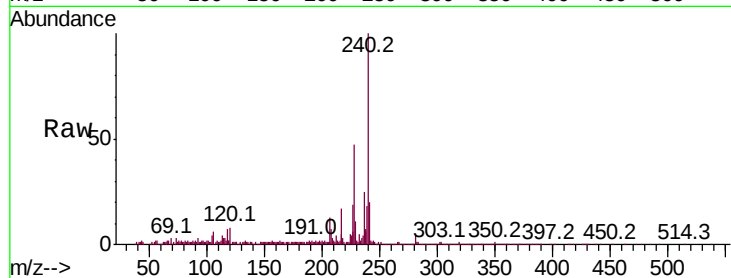




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.36 min Scan# 3123
Delta R.T. -0.01 min
Lab File: BM020227.D
Acq: 09 May 2019 21:02

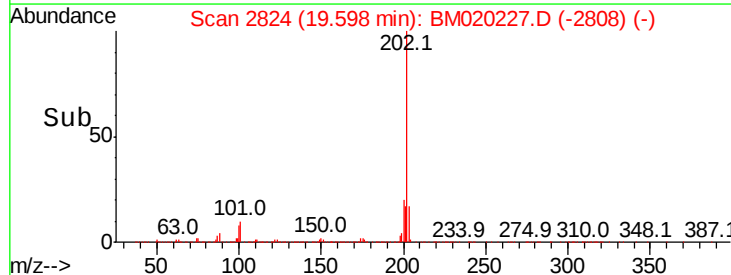
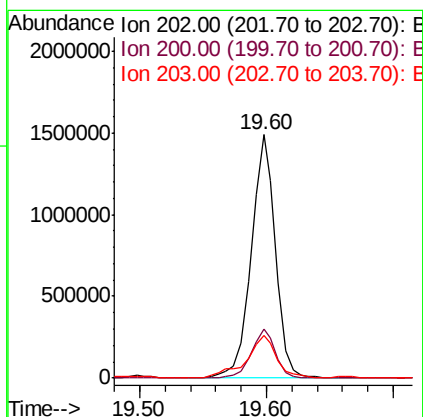
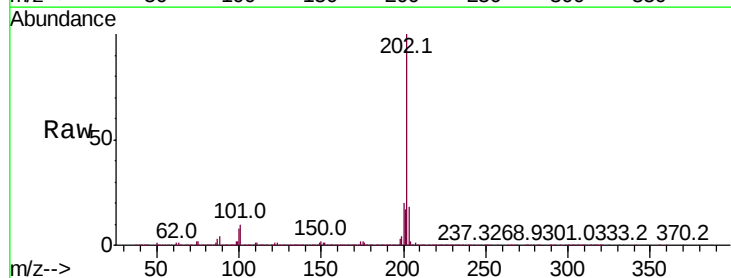
Instrument :
BNA_M
ClientSampleId :
PL-02-050719-ADL

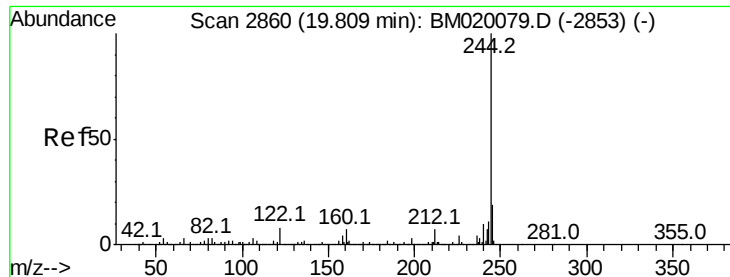
Tot Ion:240 Resp: 652899
Ion Ratio Lower Upper
240 100
120 8.0 5.6 8.4
236 25.0 20.9 31.3



#78
Pyrene
Concen: 45.035 ng
RT: 19.60 min Scan# 2824
Delta R.T. -0.01 min
Lab File: BM020227.D
Acq: 09 May 2019 21:02

Tgt Ion:202 Resp: 1974113
Ion Ratio Lower Upper
202 100
200 20.0 16.5 24.7
203 17.6 13.9 20.9





#79

Terphenyl-d14

Concen: 1.496 ng

RT: 19.79 min Scan# 2857

Delta R.T. -0.02 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

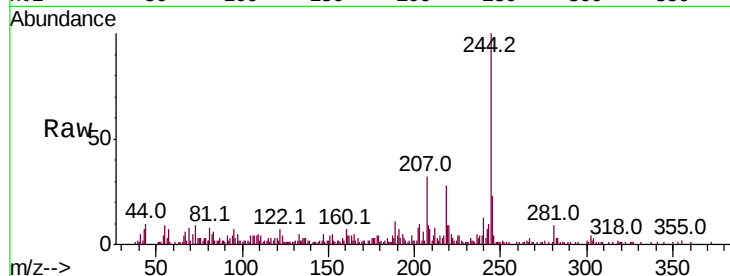
Tot Ion:244 Resp: 55996

Ion Ratio Lower Upper

244 100

212 7.6 5.7 8.5

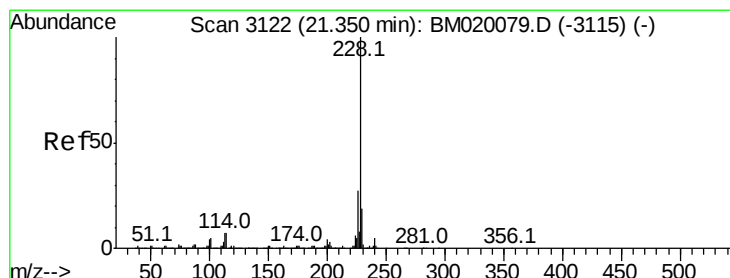
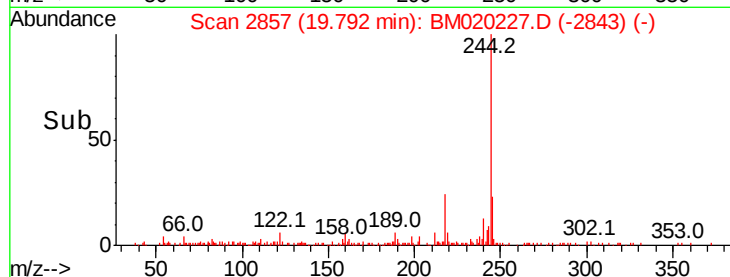
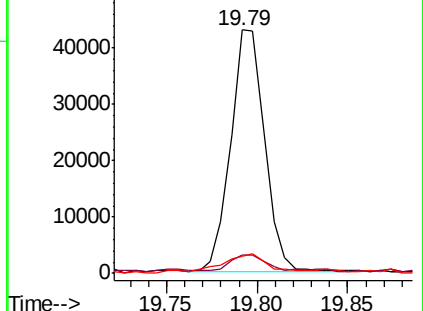
122 6.8 6.2 9.2



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 23.403 ng

RT: 21.34 min Scan# 3121

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

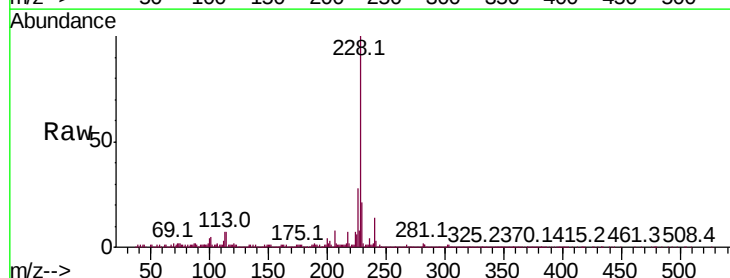
Tgt Ion:228 Resp: 1071570

Ion Ratio Lower Upper

228 100

226 27.5 21.3 31.9

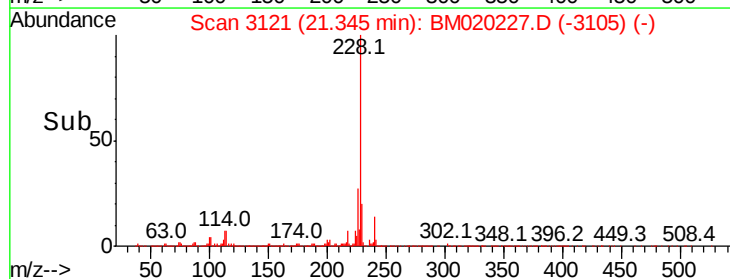
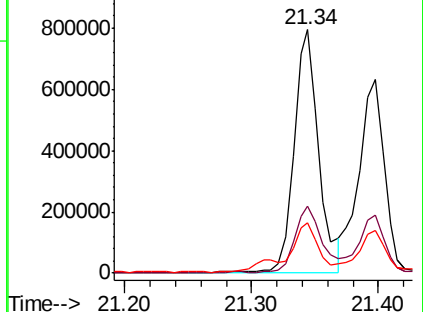
229 20.7 15.5 23.3

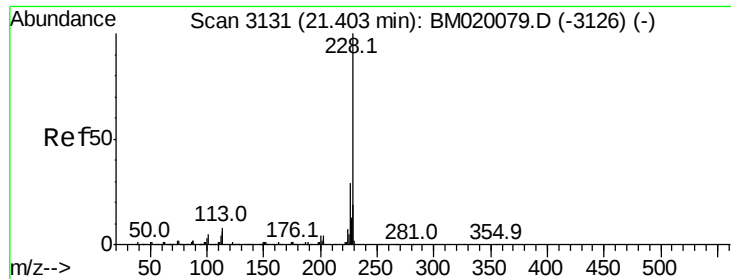


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 19.591 ng

RT: 21.40 min Scan# 3130

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

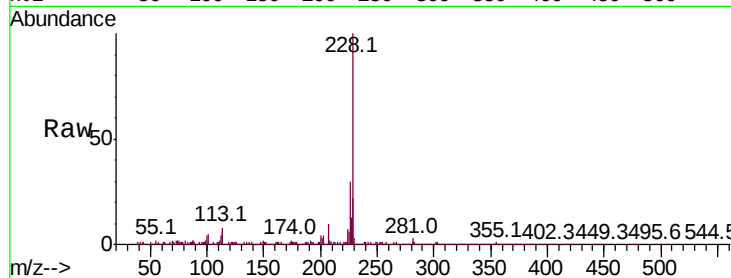
BNA_M

ClientSampleId :

PL-02-050719-ADL

Tot Ion:228 Resp: 869975

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.0	34.6
229	22.2	15.5	23.3

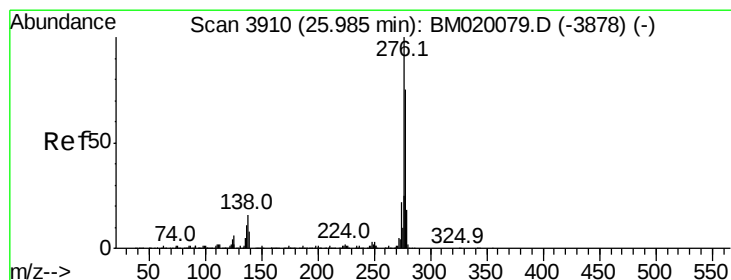
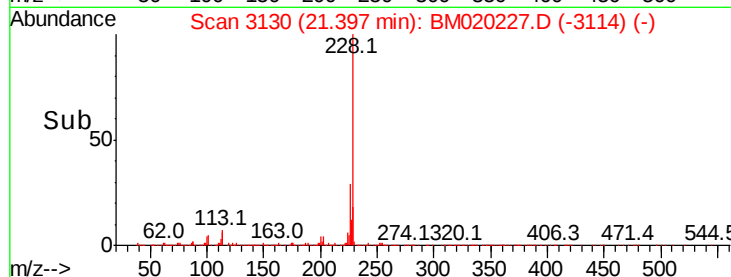
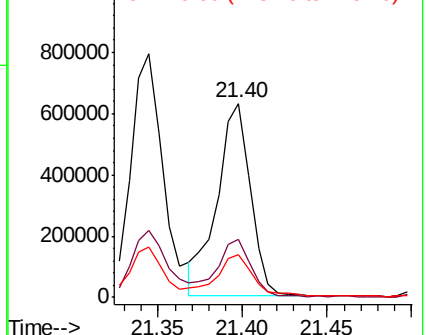


Abundance

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: 10.832 ng

RT: 25.98 min Scan# 3909

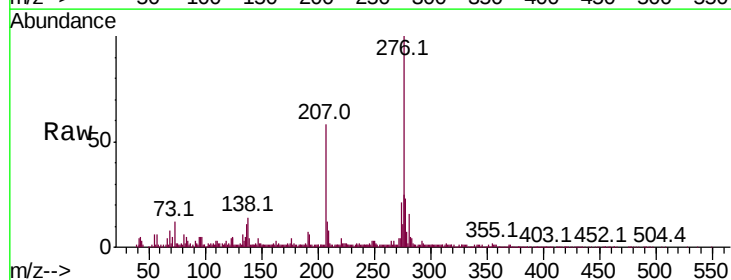
Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Tgt Ion:276 Resp: 572125

Ion	Ratio	Lower	Upper
276	100		
138	13.6	0.0	0.0#
277	25.1	0.0	0.0#

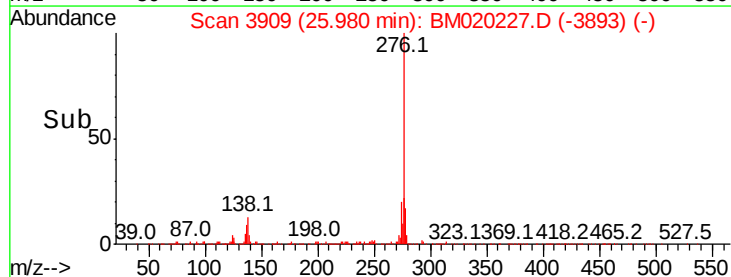
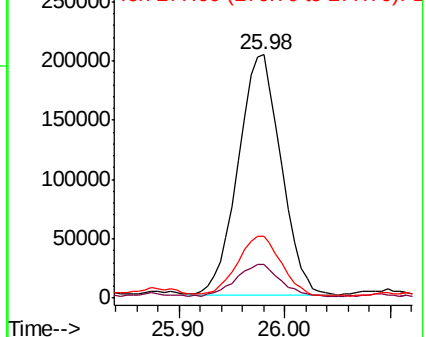


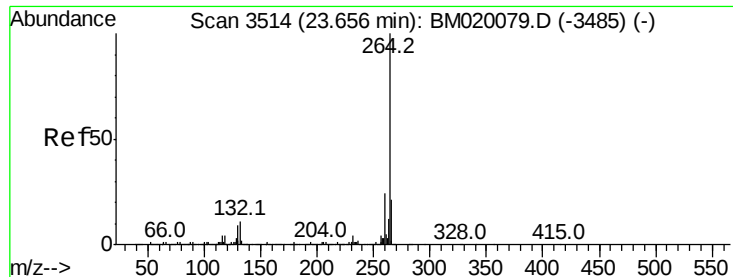
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#87

Pervlene-d12

Concen: 20.000 ng

RT: 23.65 min Scan# 3513

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

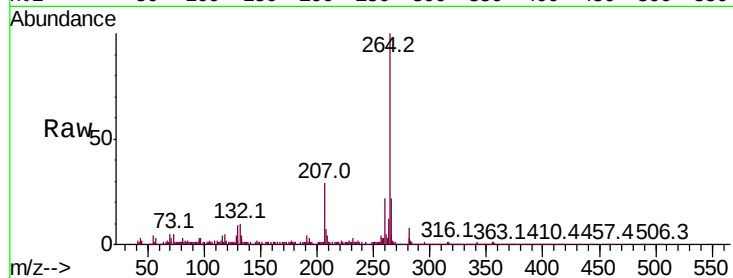
Tot Ion:264 Resp: 801099

Ion Ratio Lower Upper

264 100

260 22.3 19.2 28.8

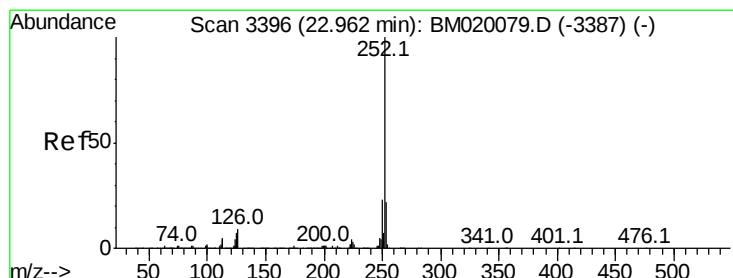
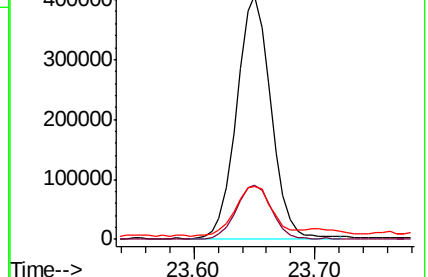
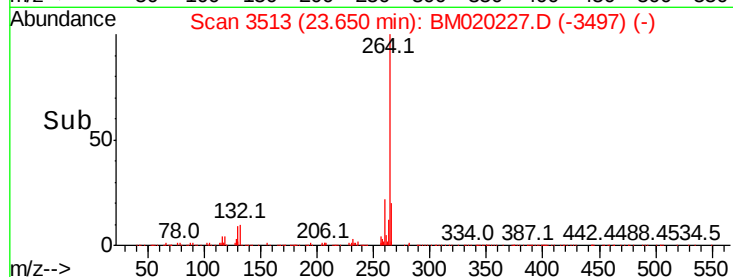
265 21.8 16.9 25.3



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#88

Benzo(b)fluoranthene

Concen: 21.589 ng m

RT: 22.96 min Scan# 3396

Delta R.T. -0.00 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

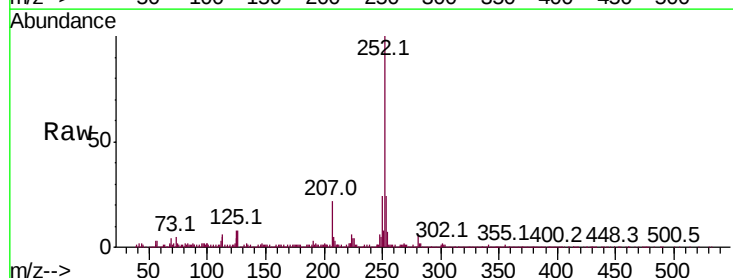
Tgt Ion:252 Resp: 1142090

Ion Ratio Lower Upper

252 100

253 23.6 17.5 26.3

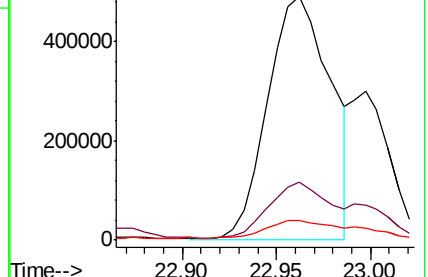
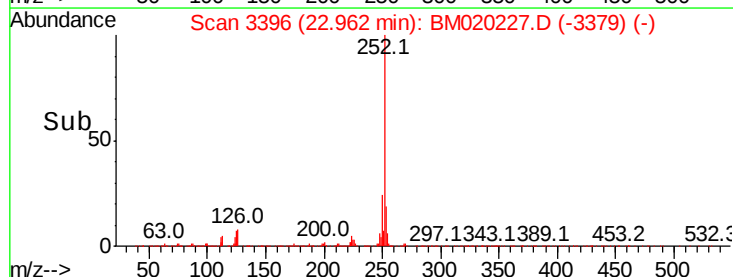
125 8.3 5.4 8.2#

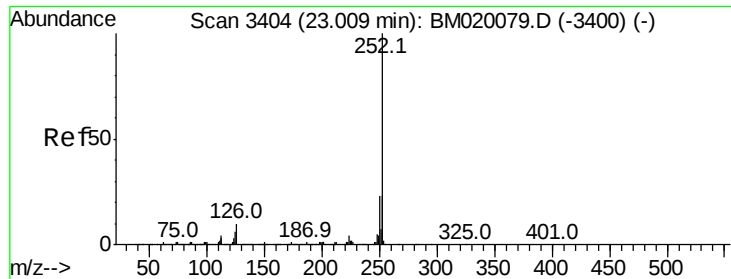


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 8.923 ng m

RT: 23.00 min Scan# 3402

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

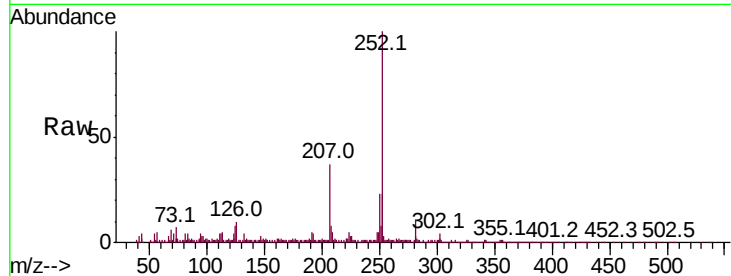
Tot Ion:252 Resp: 430558

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.8

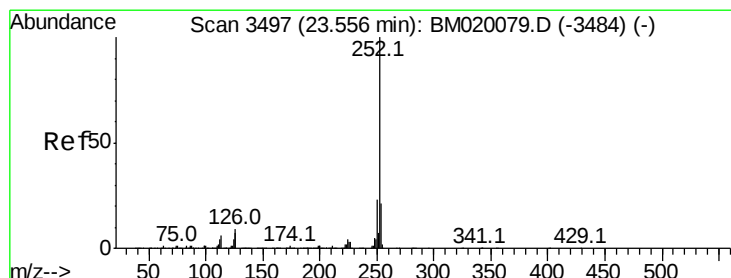
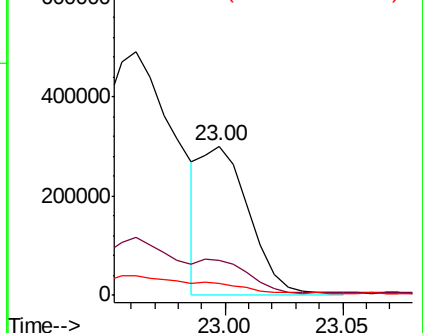
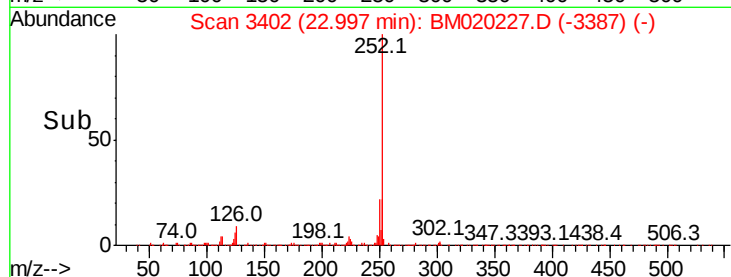
125 7.8 5.4 8.0



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



#90

Benzo(a)pyrene

Concen: 18.118 ng

RT: 23.55 min Scan# 3496

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

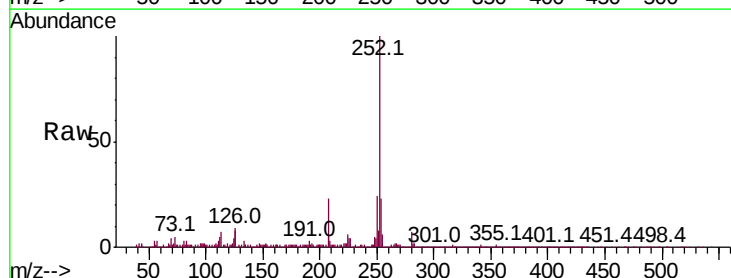
Tgt Ion:252 Resp: 870564

Ion Ratio Lower Upper

252 100

253 23.4 17.0 25.6

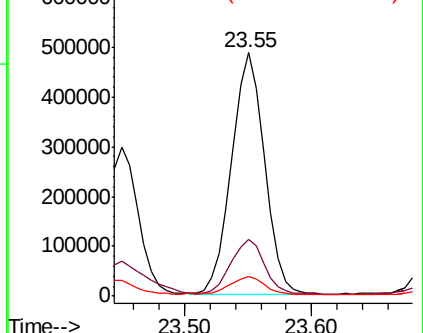
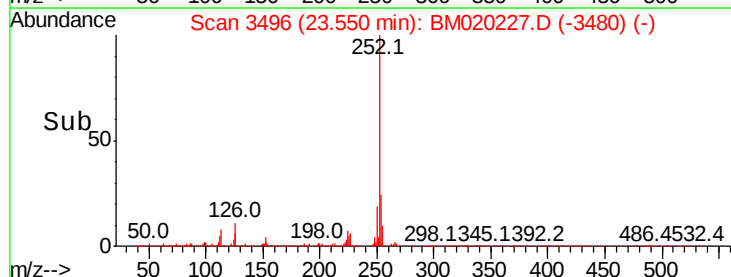
125 8.0 5.5 8.3

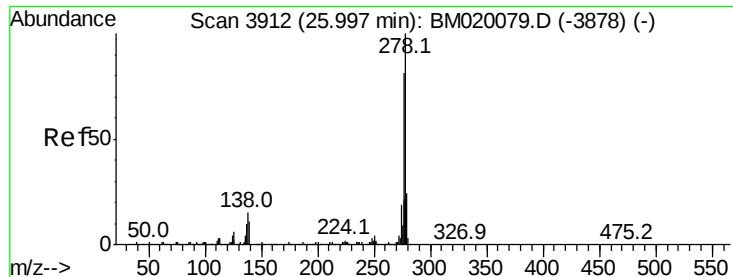


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 3.076 ng

RT: 25.98 min Scan# 3909

Delta R.T. -0.02 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Instrument :

BNA_M

ClientSampleId :

PL-02-050719-ADL

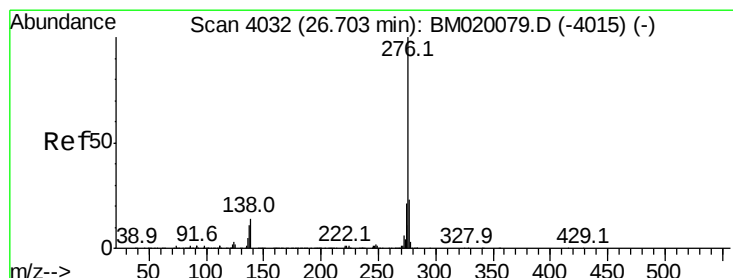
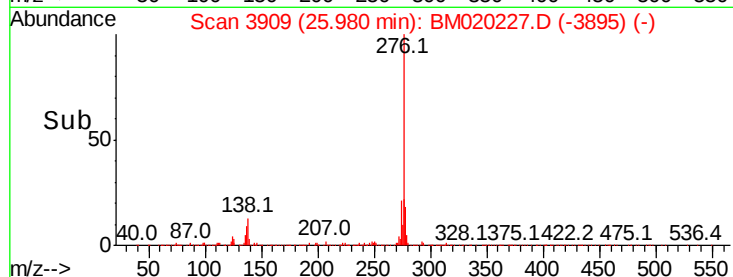
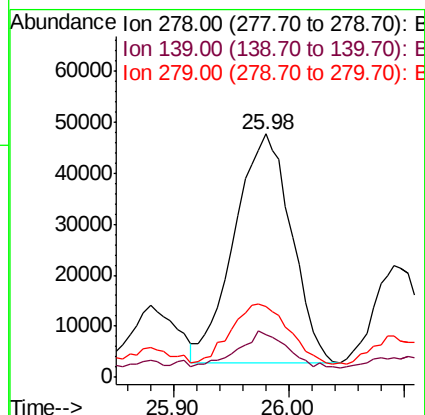
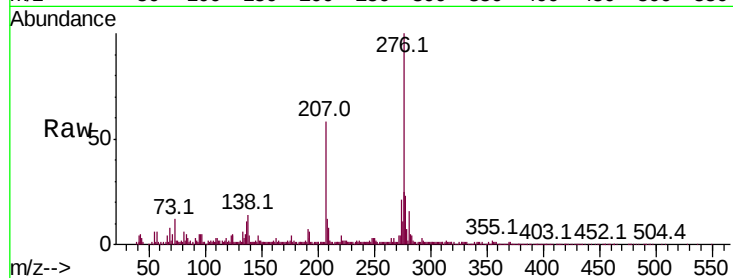
Tot Ion:278 Resp: 153700

Ion Ratio Lower Upper

278 100

139 17.5 8.6 13.0#

279 29.3 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 11.378 ng

RT: 26.70 min Scan# 4031

Delta R.T. -0.01 min

Lab File: BM020227.D

Acq: 09 May 2019 21:02

Tgt Ion:276 Resp: 539800

Ion Ratio Lower Upper

276 100

277 25.5 18.4 27.6

138 14.6 11.1 16.7

