

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM053119\
 Data File : BM020635.D
 Acq On : 31 May 2019 17:46
 Operator : JU/SJ
 Sample : K3068-10DL 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-6E(7-8)DL

Quant Time: May 31 18:20:03 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM053119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 31 15:48:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	363538	20.00	ng	0.00
21) Naphthalene-d8	10.63	136	1595795	20.00	ng	0.00
39) Acenaphthene-d10	14.47	164	841084	20.00	ng	0.00
64) Phenanthrene-d10	17.22	188	1513399	20.00	ng	0.00
76) Chrysene-d12	21.39	240	1110541	20.00	ng	0.00
87) Perylene-d12	23.69	264	1287128	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.42	112	401798	19.44	ng	0.00
7) Phenol-d6	6.99	99	602483	19.80	ng	0.00
23) Nitrobenzene-d5	8.99	82	375017	12.18	ng	0.00
42) 2,4,6-Tribromophenol	15.96	330	149831	14.38	ng	0.00
45) 2-Fluorobiphenyl	13.09	172	790285	12.49	ng	0.00
79) Terphenyl-d14	19.84	244	695754	10.48	ng	0.00

Target Compounds

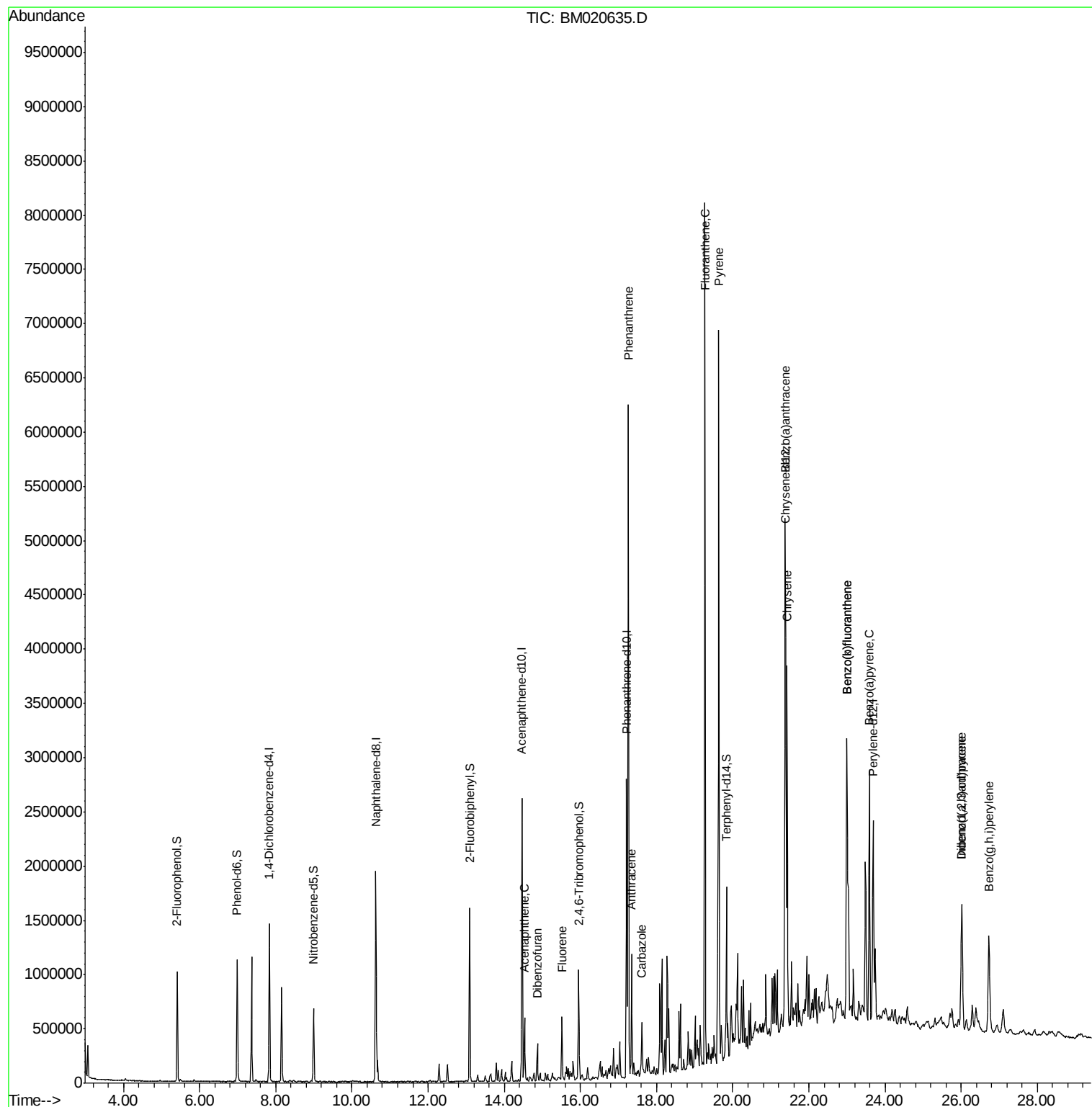
						Qvalue
9) Benzaldehyde	6.99	77	2195	Below Cal	#	34
52) Acenaphthene	14.53	154	196774	3.733	ng	99
55) Dibenzofuran	14.87	168	168523	2.058	ng	97
58) Fluorene	15.52	166	234515	3.483	ng	96
71) Phenanthrene	17.26	178	3614093	42.130	ng	100
72) Anthracene	17.34	178	643402	7.494	ng	99
73) Carbazole	17.62	167	268546	3.447	ng	99
75) Fluoranthene	19.27	202	4387749	45.994	ng	99
78) Pyrene	19.63	202	3985966	46.772	ng	99
81) Benzo(a)anthracene	21.37	228	1920091	24.828	ng	99
83) Chrysene	21.43	228	1746648	23.760	ng	98
86) Indeno(1,2,3-cd)pyrene	26.01	276	1089960	14.493	ng	97
88) Benzo(b)fluoranthene	23.00	252	2181796	25.646	ng	97
89) Benzo(k)fluoranthene	23.00	252	2170605	26.109	ng	97
90) Benzo(a)pyrene	23.59	252	1654995	21.448	ng	97
91) Dibenzo(a,h)anthracene	26.02	278	278639	3.722	ng	# 91
92) Benzo(g,h,i)perylene	26.73	276	1063655	15.297	ng	99

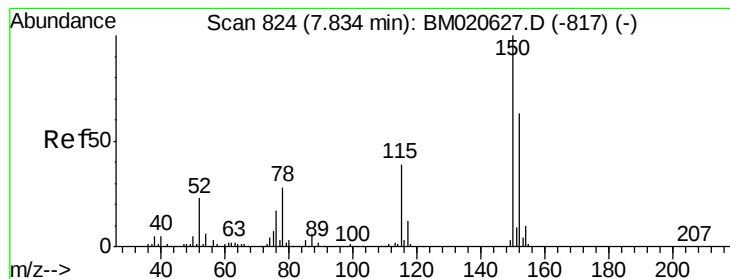
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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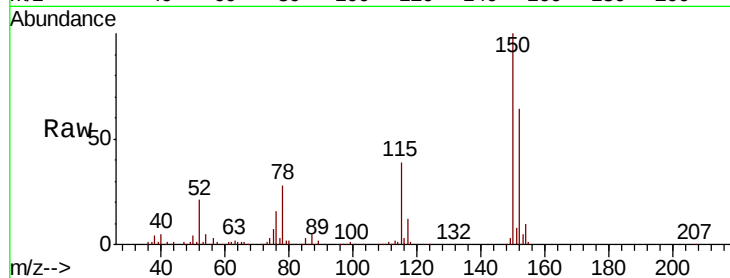


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.83 min Scan# 824
Delta R.T. 0.00 min
Lab File: BM020635.D
Acq: 31 May 2019 17:46

Instrument :
BNA_M
ClientSampleId :
B-6E(7-8)DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.4	126.0	189.0
115	60.9	49.6	74.4

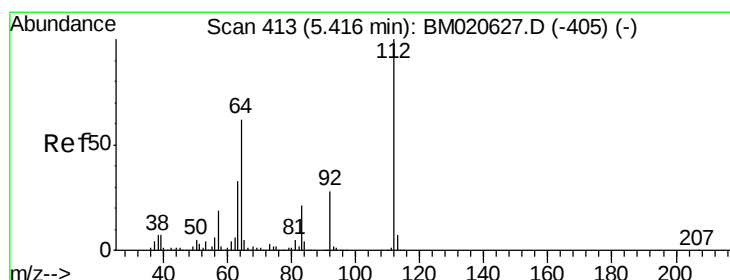
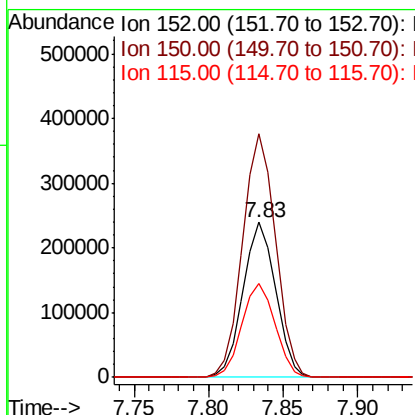
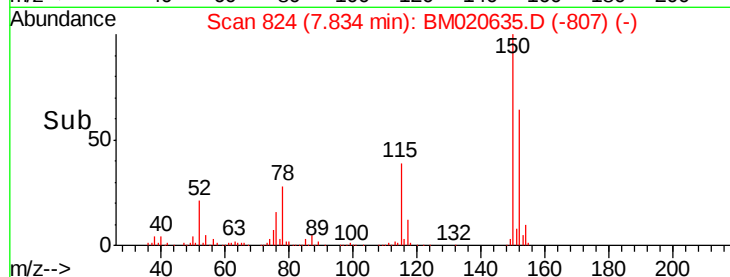


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

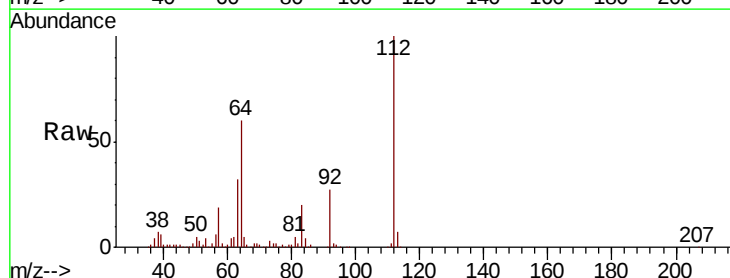
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 19.442 ng
RT: 5.42 min Scan# 413
Delta R.T. 0.00 min
Lab File: BM020635.D
Acq: 31 May 2019 17:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.1	49.7	74.5
63	32.4	26.4	39.6

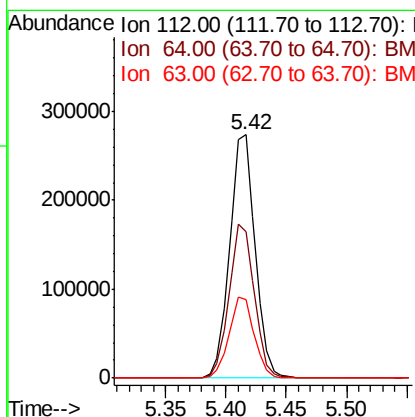
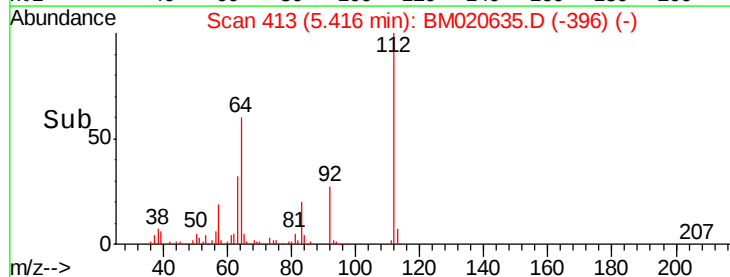


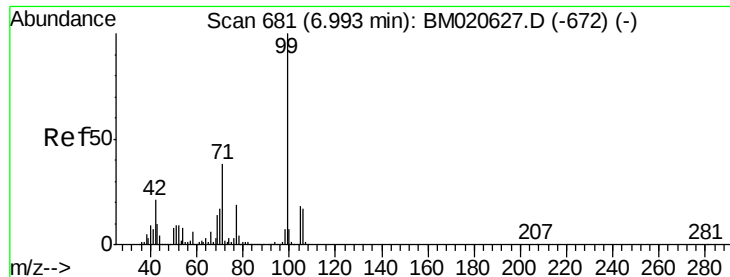
Abundance

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: 19.799 ng

RT: 6.99 min Scan# 680

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA_M

ClientSampleId :

B-6E(7-8)DL

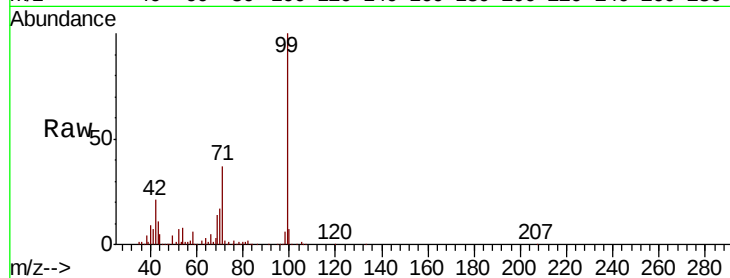
Tot Ion: 99 Resp: 602483

Ion Ratio Lower Upper

99 100

42 20.6 16.5 24.7

71 37.4 30.7 46.1

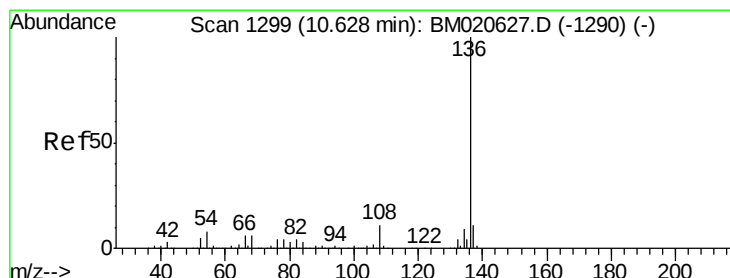
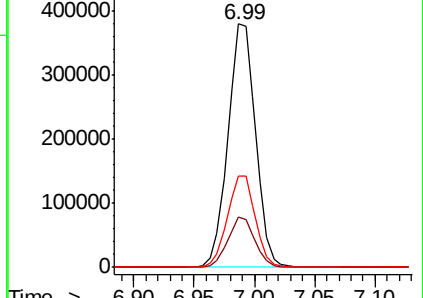
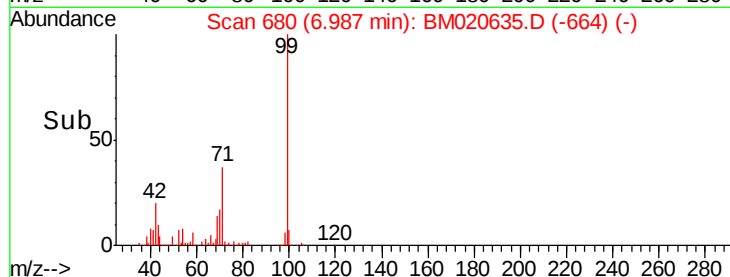


Abundance Ion 99.00 (98.70 to 99.70): BM020627.D (-672) (-)

Ion 42.00 (41.70 to 42.70): BM020627.D (-672) (-)

Ion 71.00 (70.70 to 71.70): BM020627.D (-672) (-)

6.99



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.63 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Tgt Ion: 136 Resp: 1595795

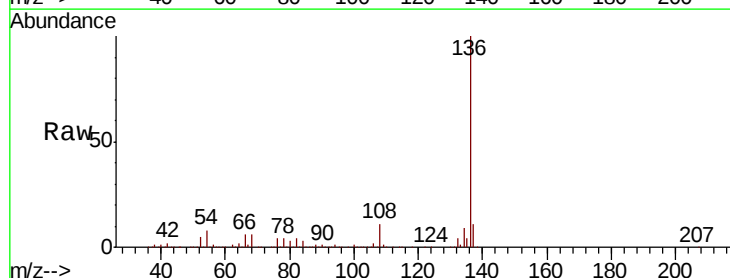
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 8.3 6.6 10.0

68 6.5 5.1 7.7



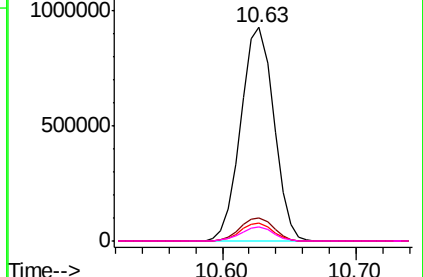
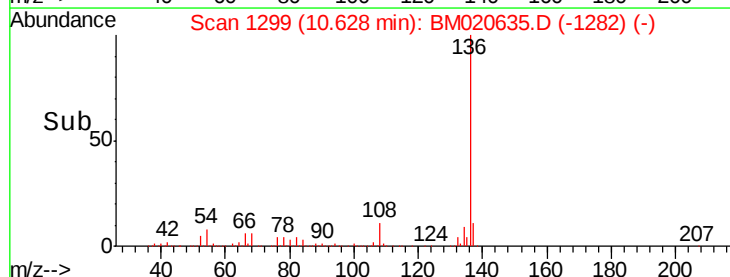
Abundance Ion 136.00 (135.70 to 136.70): BM020627.D (-1290) (-)

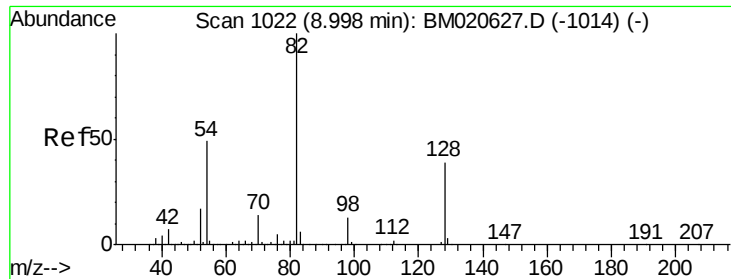
Ion 137.00 (136.70 to 137.70): BM020627.D (-1290) (-)

Ion 54.00 (53.70 to 54.70): BM020627.D (-1290) (-)

Ion 68.00 (67.70 to 68.70): BM020627.D (-1290) (-)

10.63

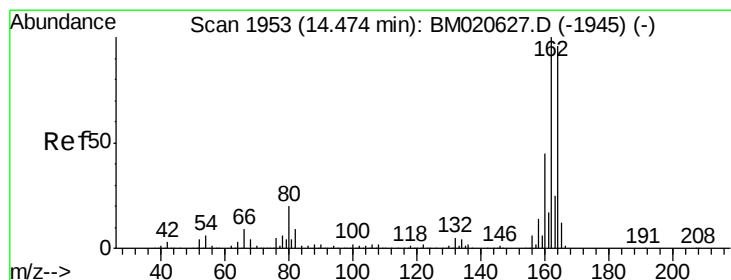
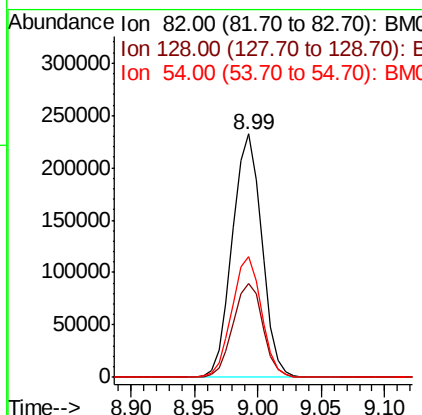
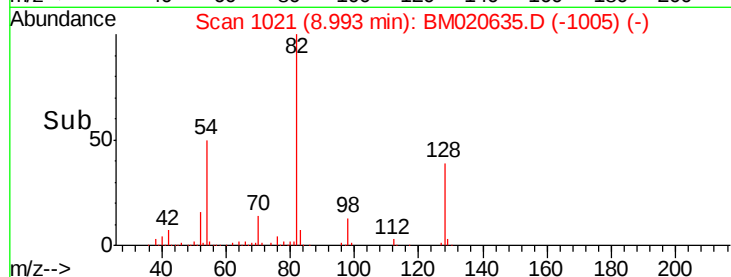
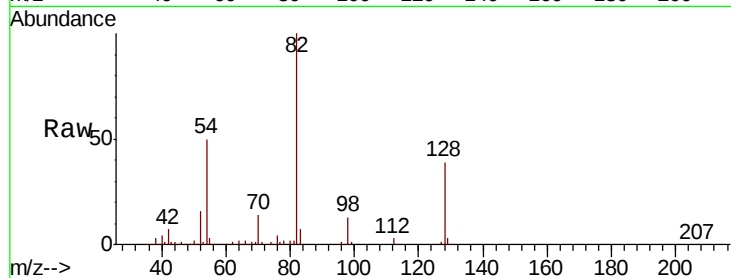




#23
Nitrobenzene-d5
Concen: 12.176 ng
RT: 8.99 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BM020635.D
Acq: 31 May 2019 17:46

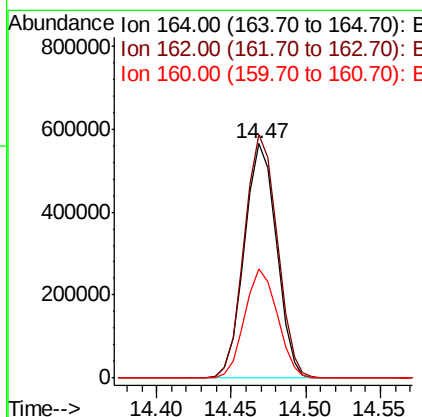
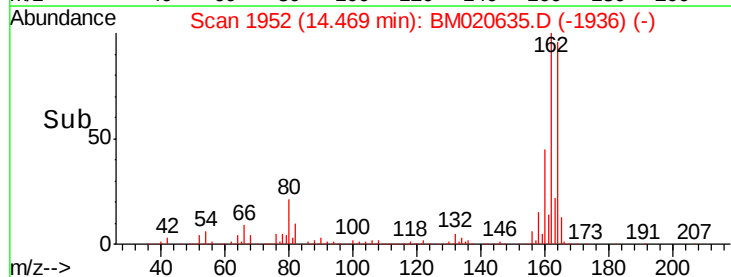
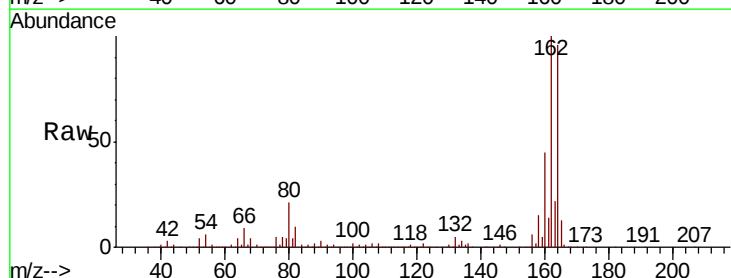
Instrument :
BNA_M
ClientSampleId :
B-6E(7-8)DL

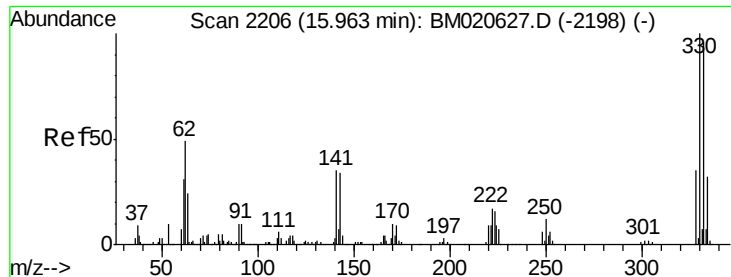
Tot Ion	Ratio	Lower	Upper
82	100		
128	38.7	31.5	47.3
54	49.6	39.4	59.0



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.47 min Scan# 1952
Delta R.T. -0.01 min
Lab File: BM020635.D
Acq: 31 May 2019 17:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.8	83.2	124.8
160	46.8	37.5	56.3

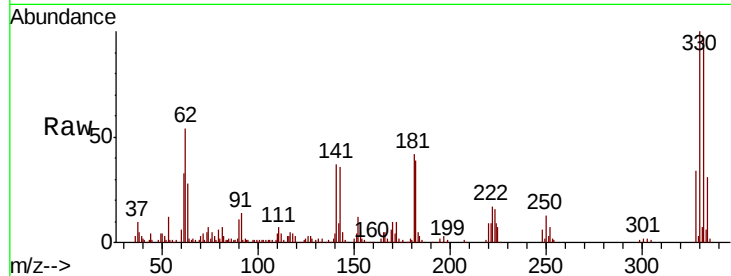




#42
 2,4,6-Tribromophenol
 Concen: 14.378 ng
 RT: 15.96 min Scan# 2205
 Delta R.T. -0.01 min
 Lab File: BM020635.D
 Acq: 31 May 2019 17:46

Instrument :
 BNA_M
 ClientSampleId :
 B-6E(7-8)DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.4	116.0
141	39.6	30.4	45.6

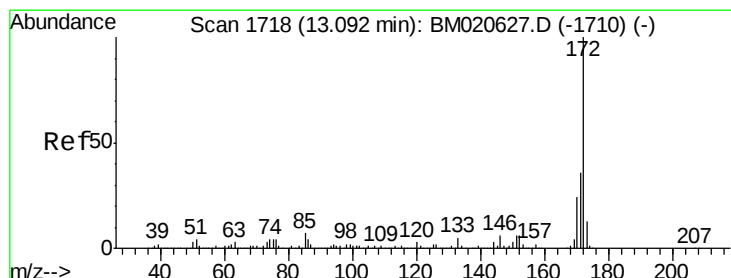
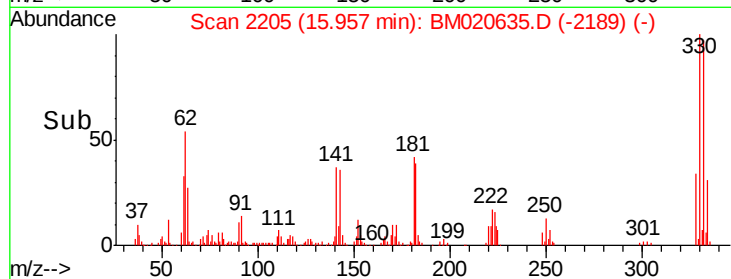
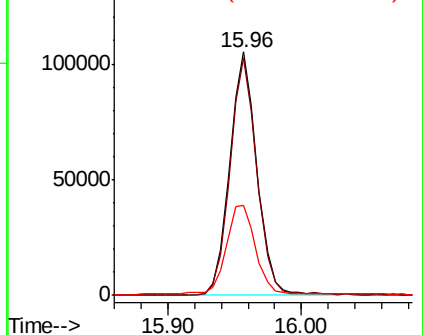


Abundance

Ion 329.80 (329.50 to 330.50): E

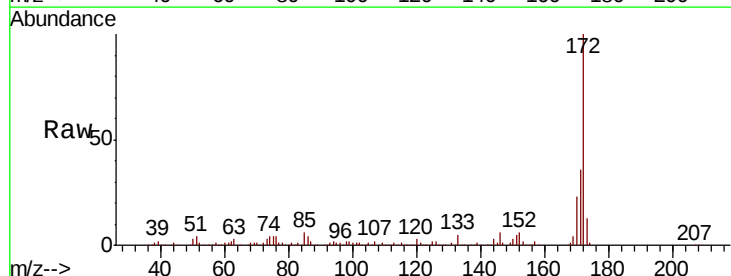
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 12.492 ng
 RT: 13.09 min Scan# 1718
 Delta R.T. 0.00 min
 Lab File: BM020635.D
 Acq: 31 May 2019 17:46

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.3	18.9	28.3

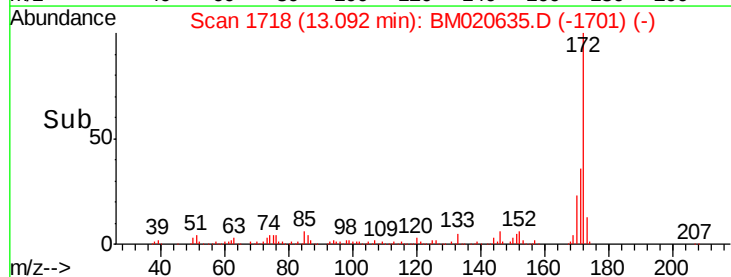
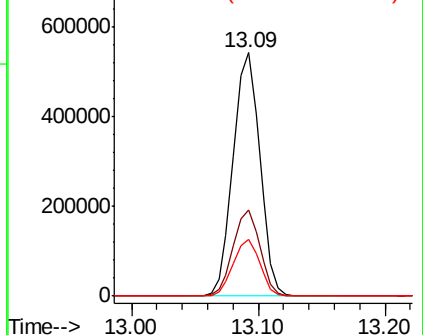


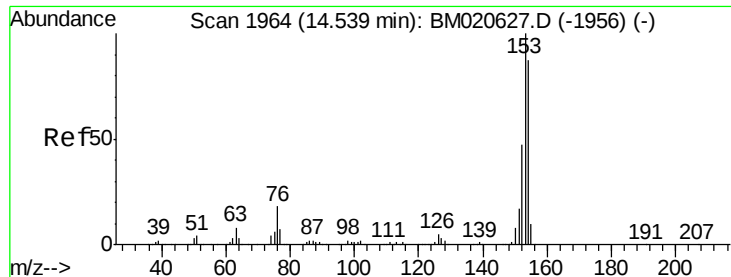
Abundance

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





#52

Acenaphthene

Concen: 3.733 ng

RT: 14.53 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA_M

ClientSampleId :

B-6E(7-8)DL

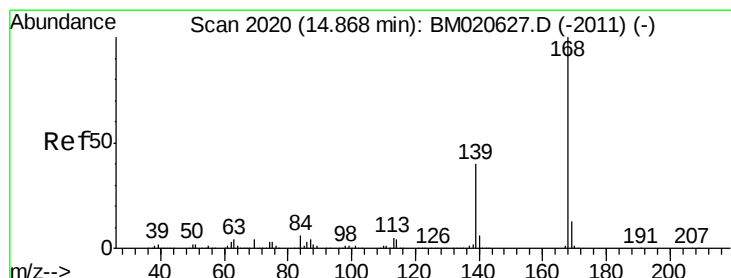
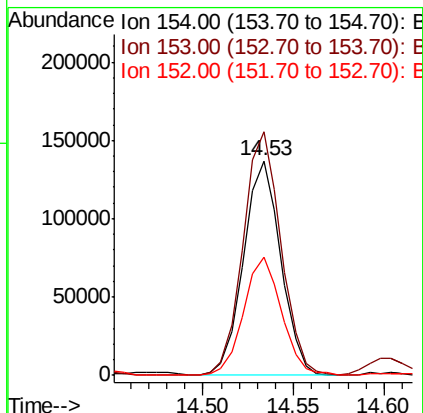
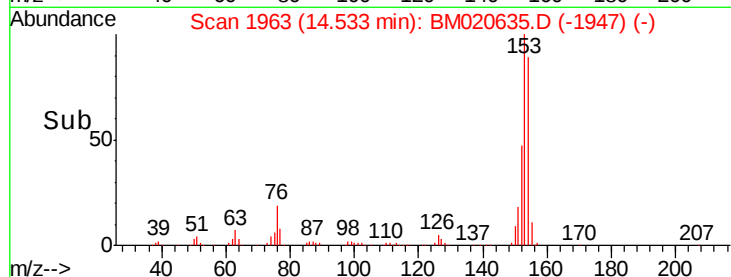
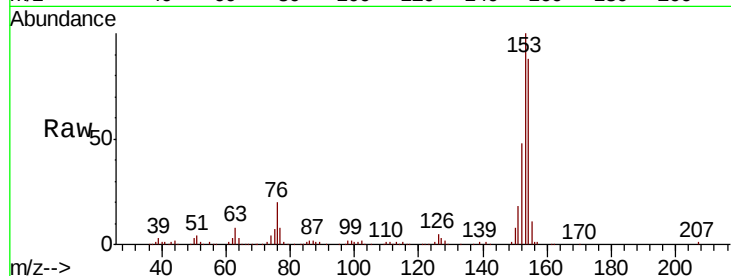
Tot Ion:154 Resp: 196774

Ion Ratio Lower Upper

154 100

153 113.6 92.4 138.6

152 54.8 43.4 65.0



#55

Dibenzofuran

Concen: 2.058 ng

RT: 14.87 min Scan# 2020

Delta R.T. 0.00 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

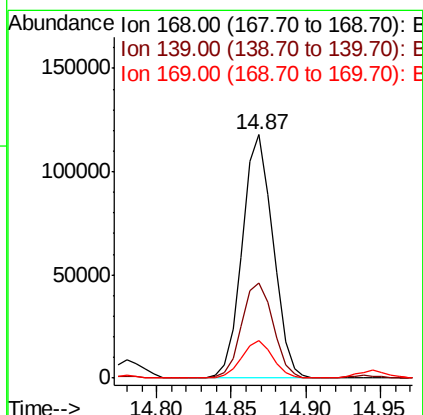
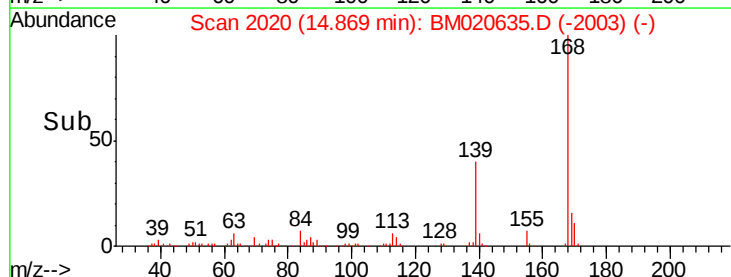
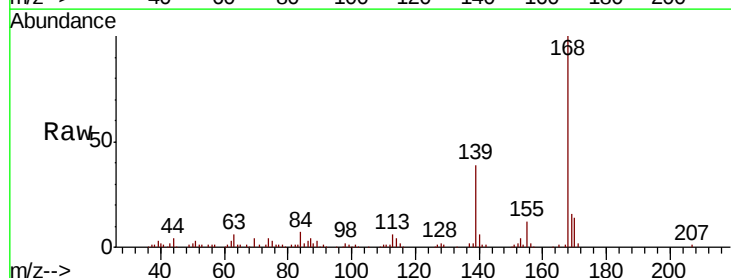
Tgt Ion:168 Resp: 168523

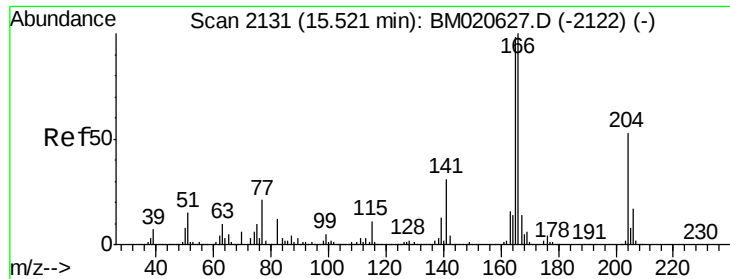
Ion Ratio Lower Upper

168 100

139 38.9 31.9 47.9

169 15.6 10.7 16.1





#58

Fluorene

Concen: 3.483 ng

RT: 15.52 min Scan# 2130

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA_M

ClientSampleId :

B-6E(7-8)DL

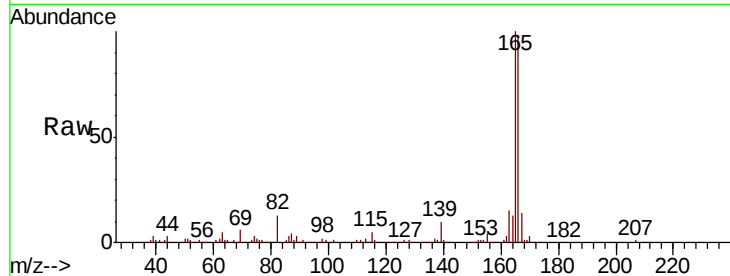
Tot Ion:166 Resp: 234515

Ion Ratio Lower Upper

166 100

165 101.9 78.6 117.8

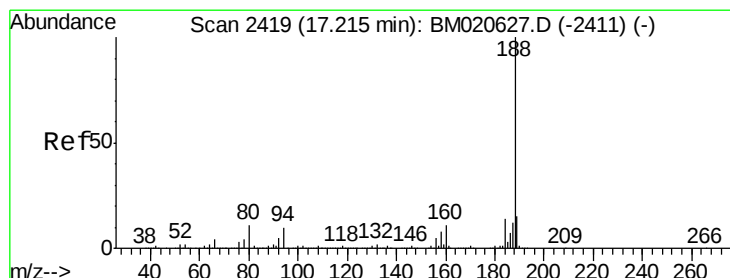
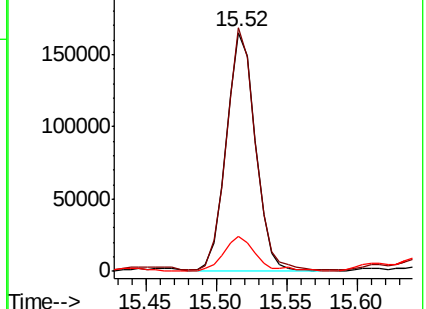
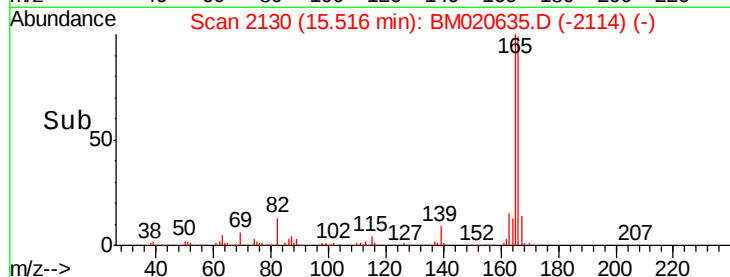
167 14.5 11.0 16.4



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: 17.22 min Scan# 2419

Delta R.T. 0.00 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

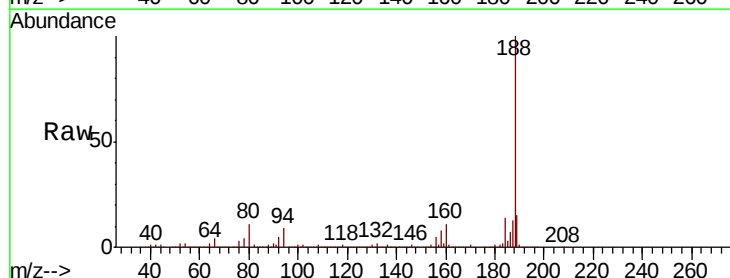
Tgt Ion:188 Resp: 1513399

Ion Ratio Lower Upper

188 100

94 9.3 7.8 11.8

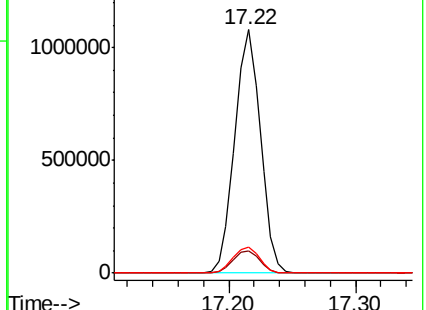
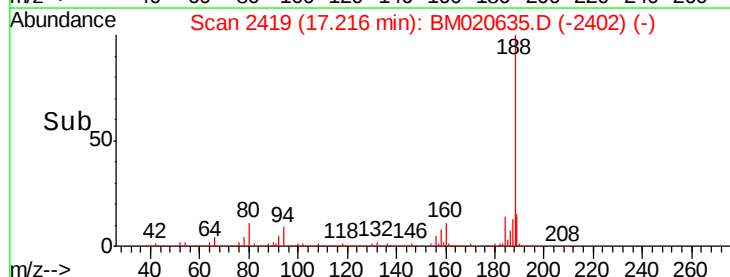
80 10.7 9.0 13.6

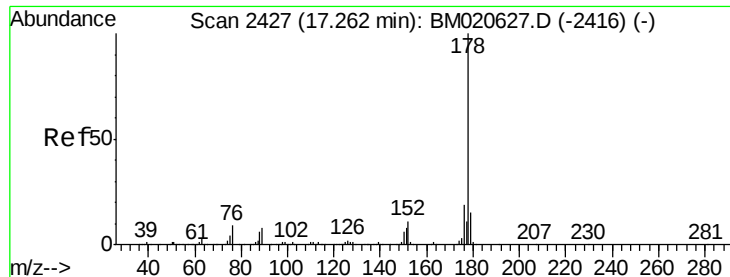


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM





#71

Phenanthrene

Concen: 42.130 ng

RT: 17.26 min Scan# 2426

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA_M

ClientSampleId :

B-6E(7-8)DL

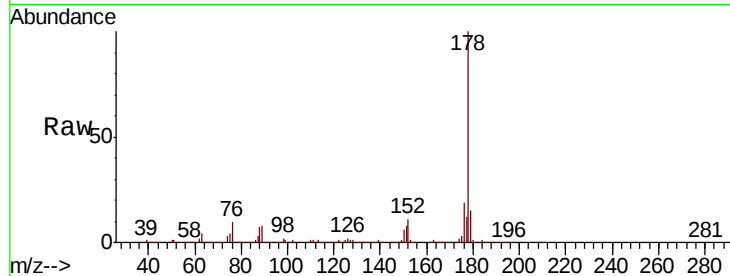
Tot Ion:178 Resp: 3614093

Ion Ratio Lower Upper

178 100

176 19.1 15.5 23.3

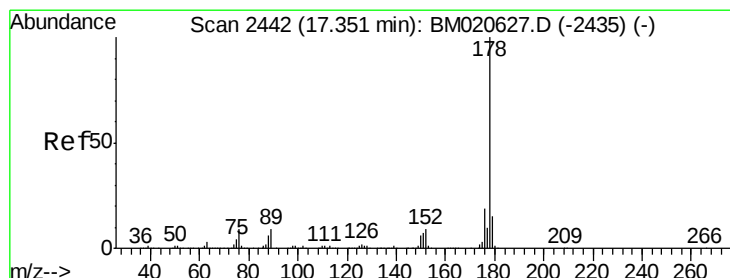
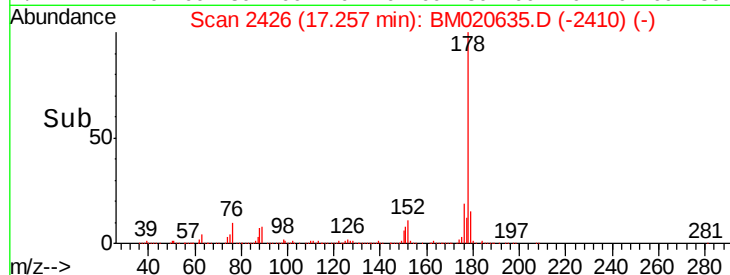
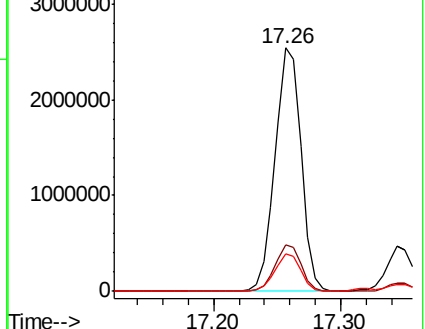
179 15.4 12.2 18.4



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: 7.494 ng

RT: 17.34 min Scan# 2441

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

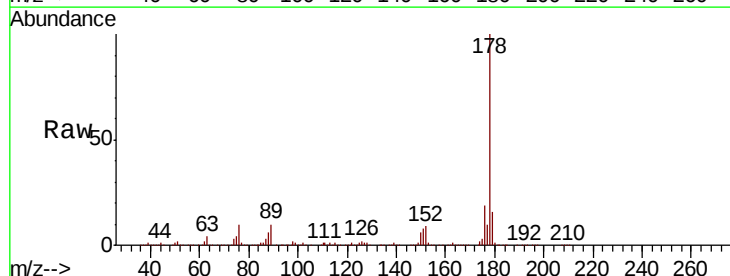
Tgt Ion:178 Resp: 643402

Ion Ratio Lower Upper

178 100

176 19.4 15.1 22.7

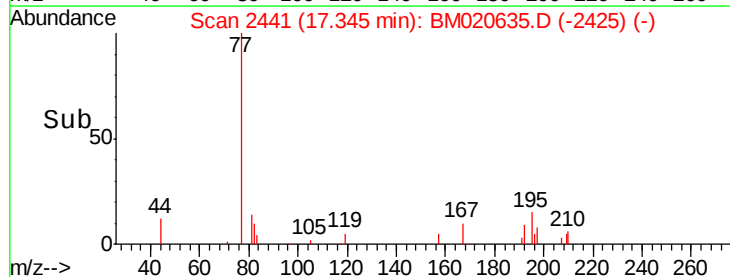
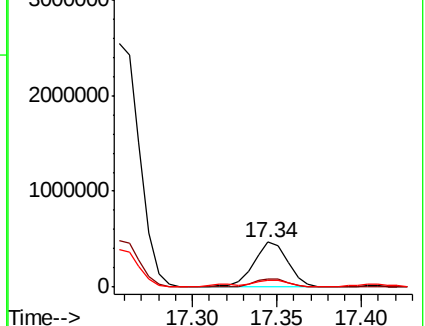
179 16.1 12.3 18.5

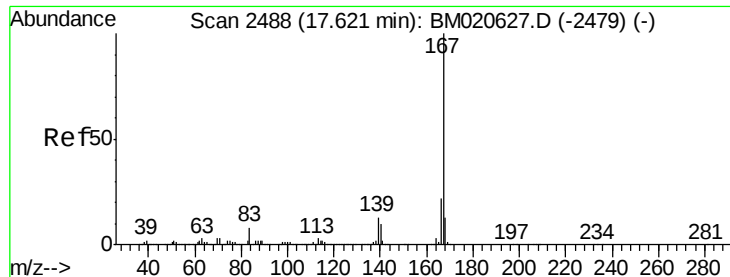


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 3.447 ng

RT: 17.62 min Scan# 2487

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA_M

ClientSampleId :

B-6E(7-8)DL

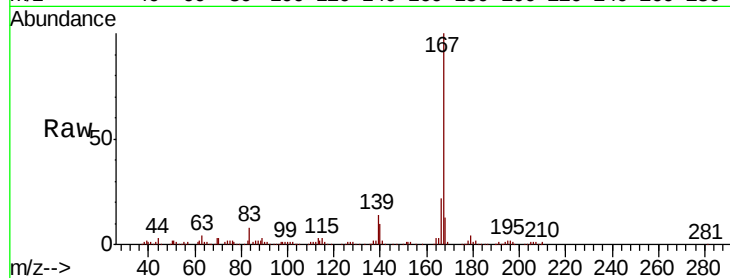
Tot Ion:167 Resp: 268546

Ion Ratio Lower Upper

167 100

166 21.6 17.5 26.3

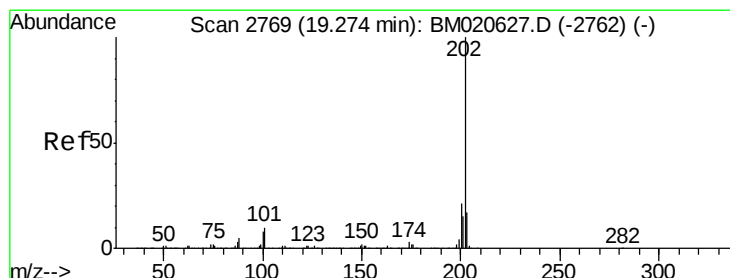
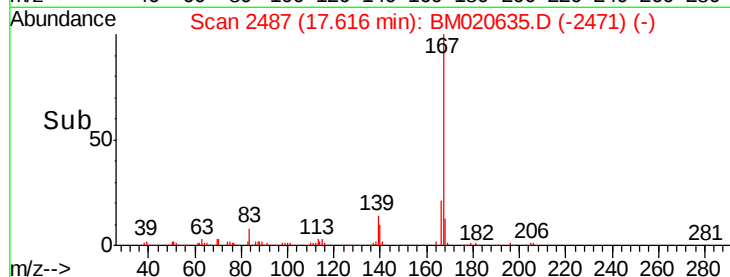
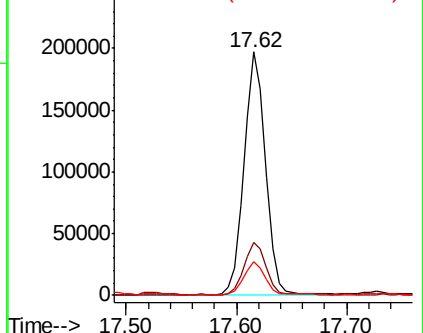
139 14.1 10.6 15.8



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: 45.994 ng

RT: 19.27 min Scan# 2769

Delta R.T. 0.00 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

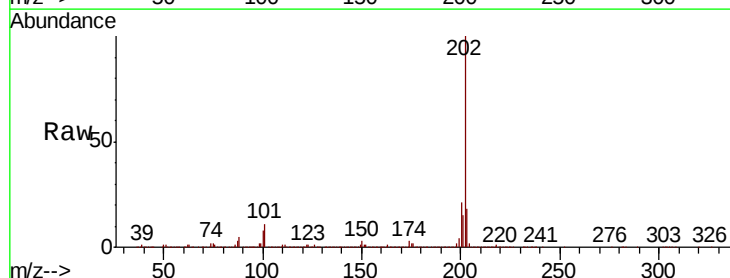
Tgt Ion:202 Resp: 4387749

Ion Ratio Lower Upper

202 100

101 10.8 0.0 30.4

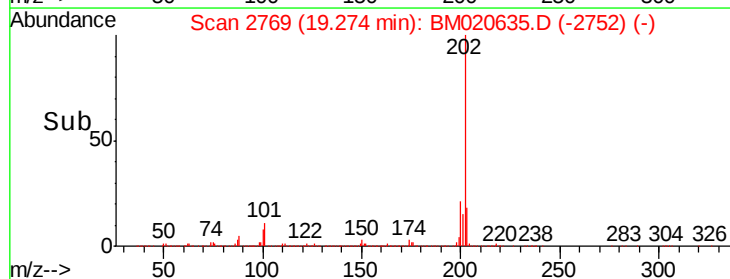
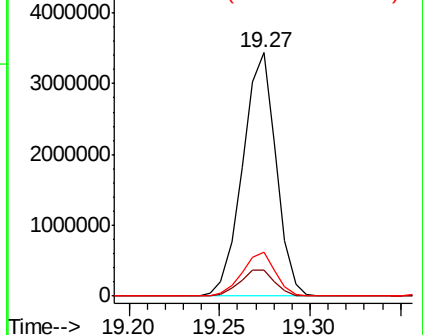
203 17.8 0.0 37.3

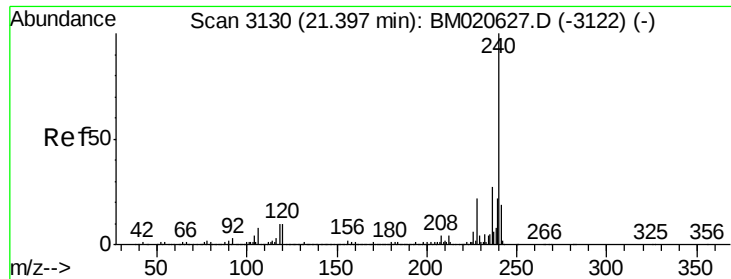


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

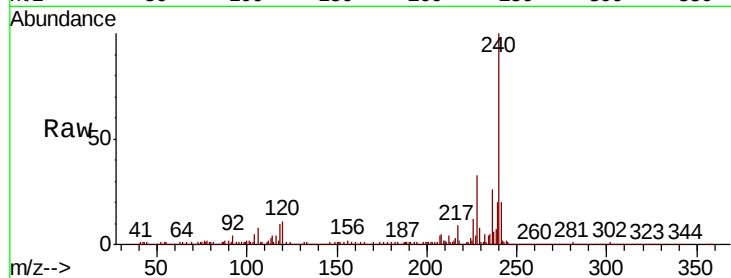




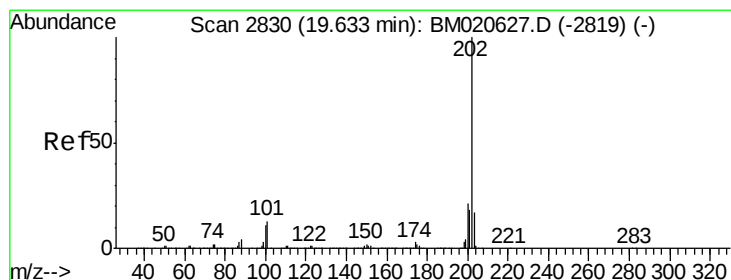
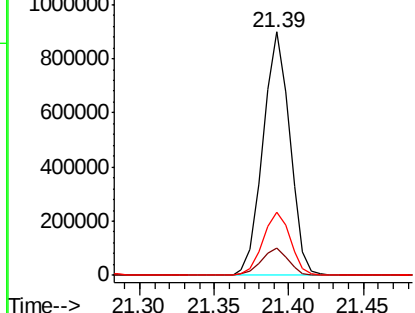
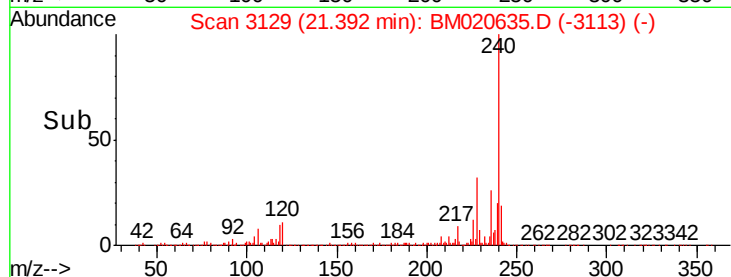
#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 21.39 min Scan# 3129
 Delta R.T. -0.01 min
 Lab File: BM020635.D
 Acq: 31 May 2019 17:46

Instrument :
 BNA_M
 ClientSampleId :
 B-6E(7-8)DL

Tot Ion:240 Resp: 1110541
 Ion Ratio Lower Upper
 240 100
 120 11.1 8.2 12.2
 236 25.8 21.2 31.8

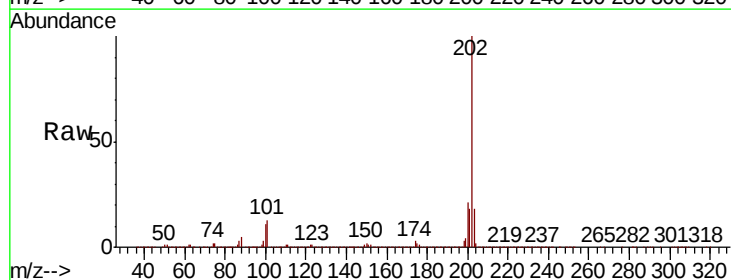


Abundance Ion 240.00 (239.70 to 240.70): E
 1200000 Ion 120.00 (119.70 to 120.70): E
 1000000 Ion 236.00 (235.70 to 236.70): E

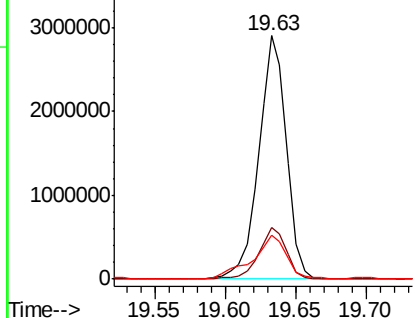
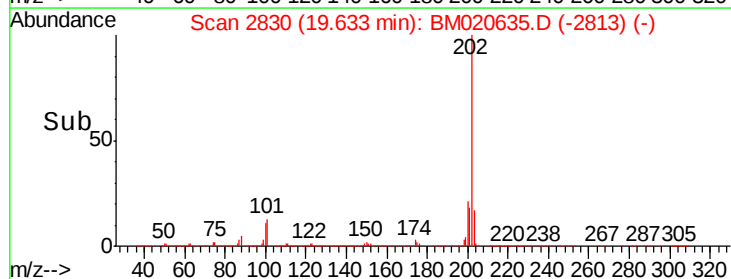


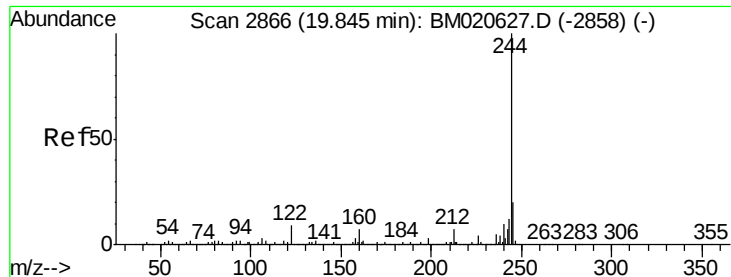
#78
 Pyrene
 Concen: 46.772 ng
 RT: 19.63 min Scan# 2830
 Delta R.T. 0.00 min
 Lab File: BM020635.D
 Acq: 31 May 2019 17:46

Tgt Ion:202 Resp: 3985966
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.8 25.2
 203 17.8 13.9 20.9



Abundance Ion 202.00 (201.70 to 202.70): E
 4000000 Ion 200.00 (199.70 to 200.70): E
 3000000 Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 10.479 ng

RT: 19.84 min Scan# 2865

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA_M

ClientSampleId :

B-6E(7-8)DL

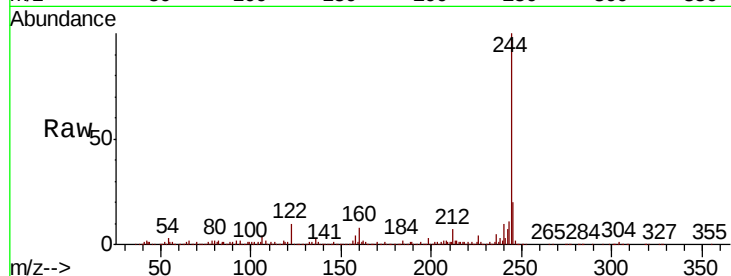
Tot Ion:244 Resp: 695754

Ion Ratio Lower Upper

244 100

212 6.9 5.7 8.5

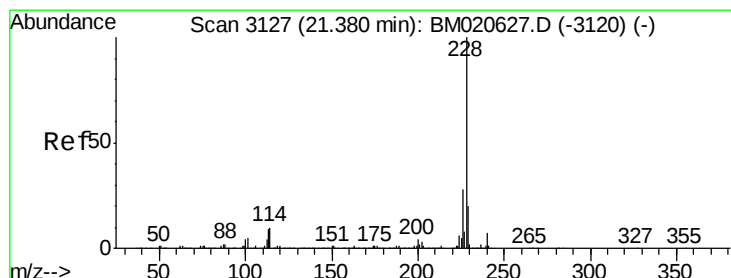
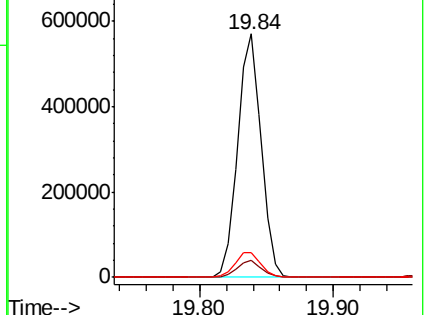
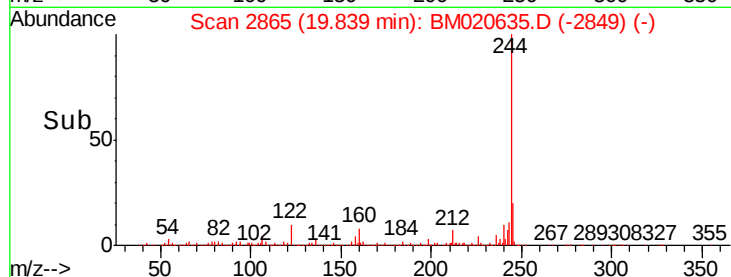
122 10.0 7.2 10.8



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: 24.828 ng

RT: 21.37 min Scan# 3126

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

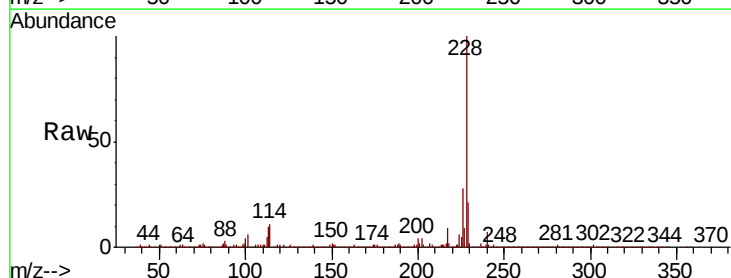
Tgt Ion:228 Resp: 1920091

Ion Ratio Lower Upper

228 100

226 28.1 22.3 33.5

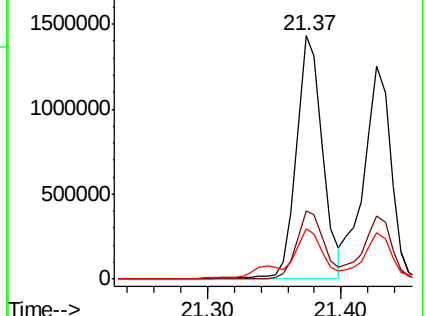
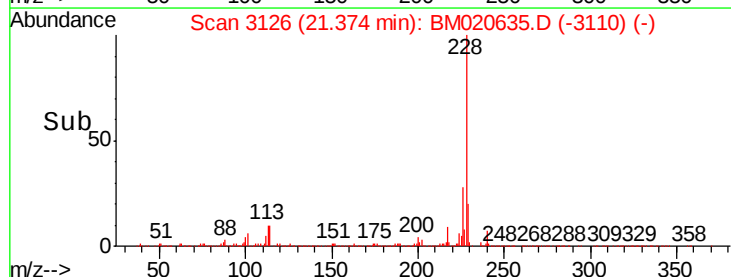
229 20.5 15.9 23.9

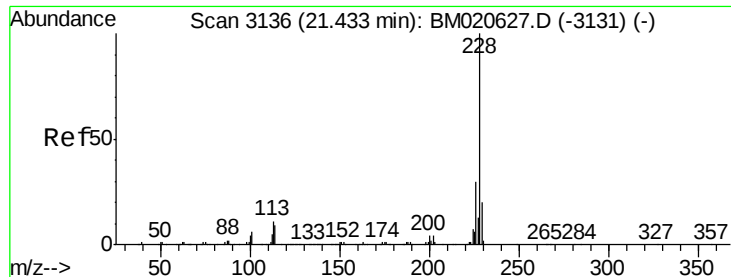


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 23.760 ng

RT: 21.43 min Scan# 3135

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA_M

ClientSampleID :

B-6E(7-8)DL

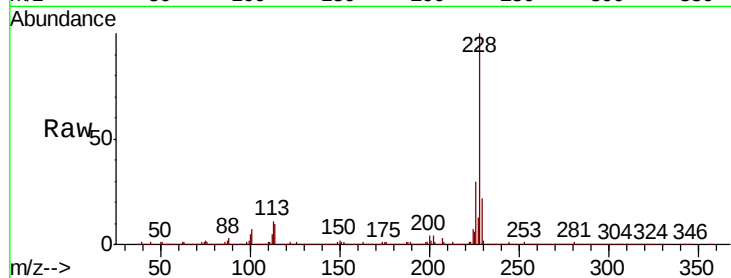
Tot Ion:228 Resp: 1746648

Ion Ratio Lower Upper

228 100

226 29.7 24.2 36.2

229 21.7 15.8 23.6

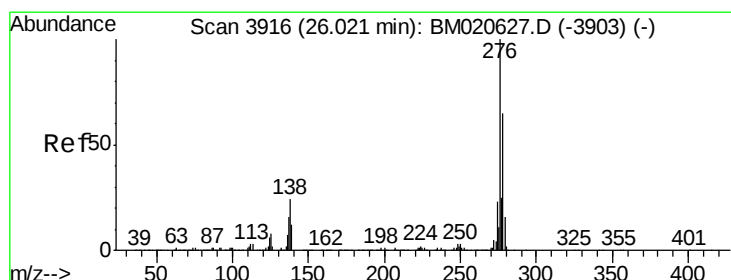
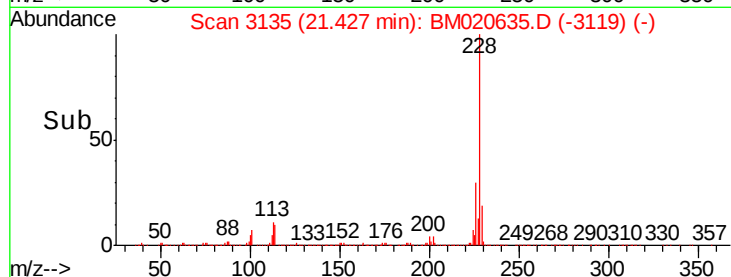
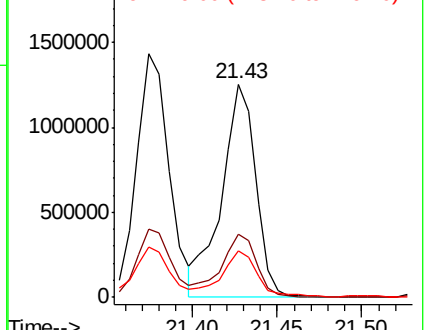


Abundance

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: 14.493 ng

RT: 26.01 min Scan# 3915

Delta R.T. -0.01 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

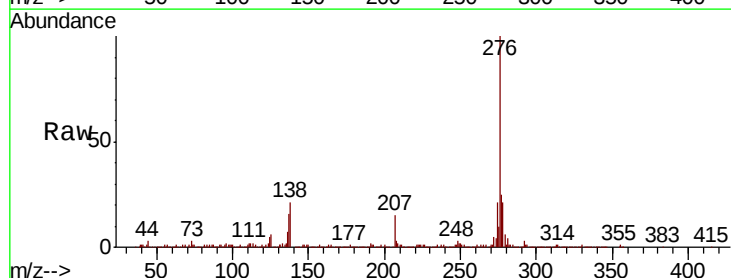
Tgt Ion:276 Resp: 1089960

Ion Ratio Lower Upper

276 100

138 22.2 19.8 29.8

277 25.1 20.2 30.4

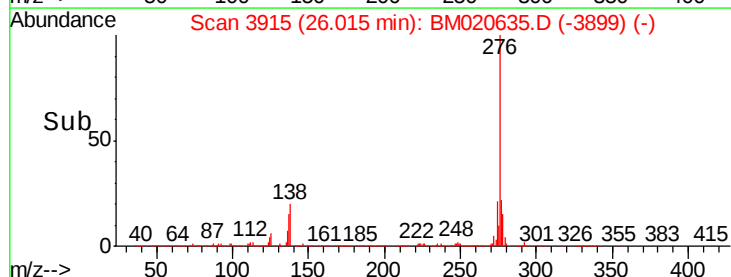
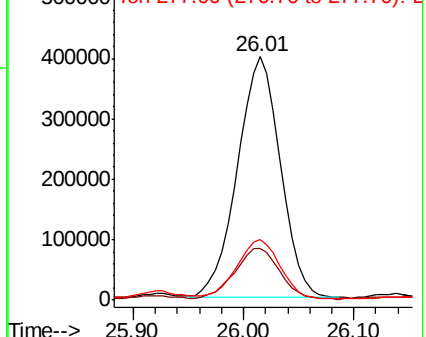


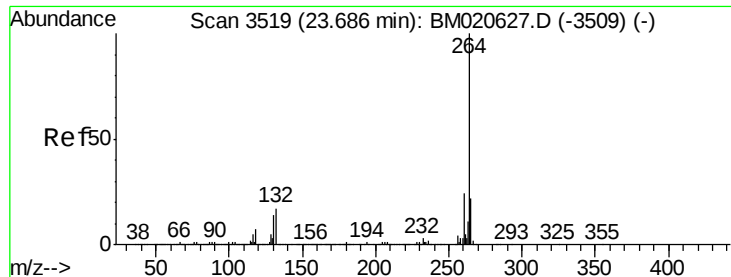
Abundance

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



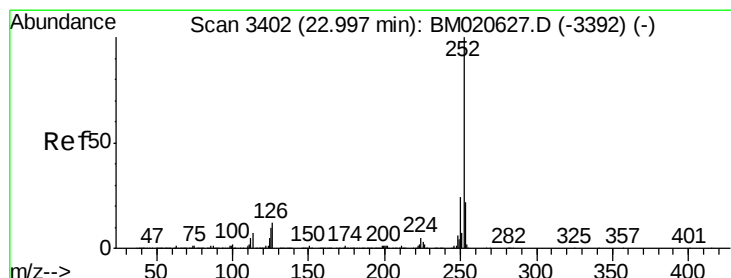
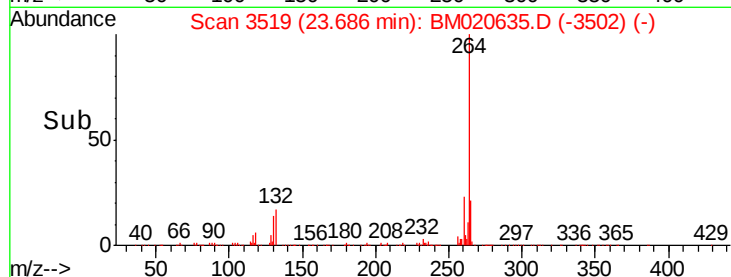
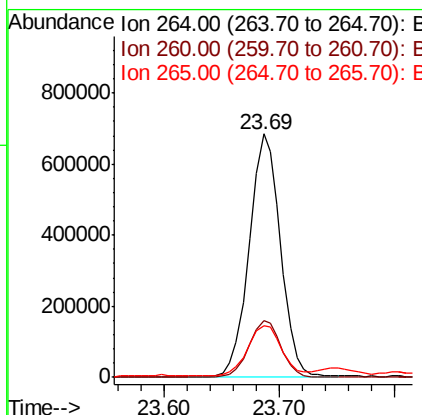
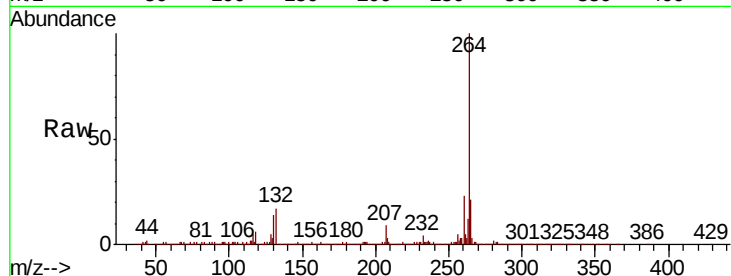


#87
Pervlene-d12
Concen: 20.000 ng
RT: 23.69 min Scan# 3519
Delta R.T. 0.00 min
Lab File: BM020635.D
Acq: 31 May 2019 17:46

Instrument :
BNA_M
ClientSampleId :
B-6E(7-8)DL

Tot Ion:264 Resp: 1287128

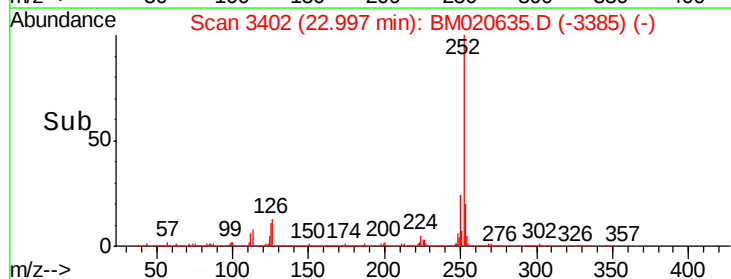
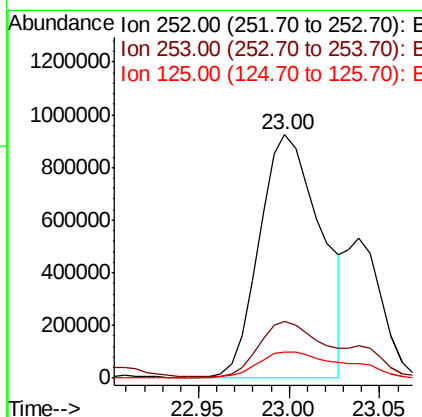
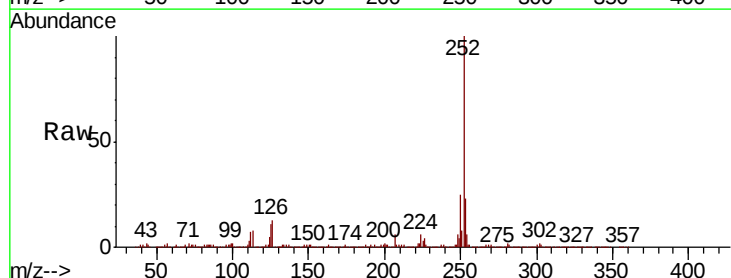
Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.2	28.8
265	21.4	17.6	26.4

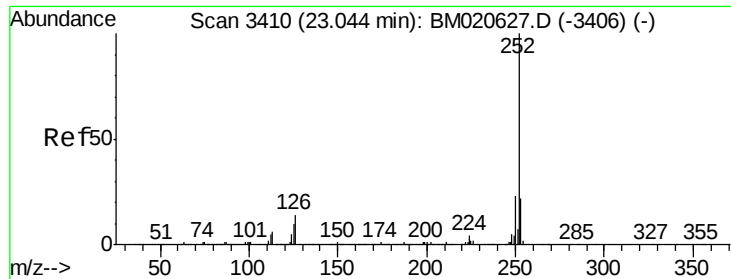


#88
Benzo(b)fluoranthene
Concen: 25.646 ng
RT: 23.00 min Scan# 3402
Delta R.T. 0.00 min
Lab File: BM020635.D
Acq: 31 May 2019 17:46

Tgt Ion:252 Resp: 2181796

Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.4	26.2
125	10.9	7.8	11.8

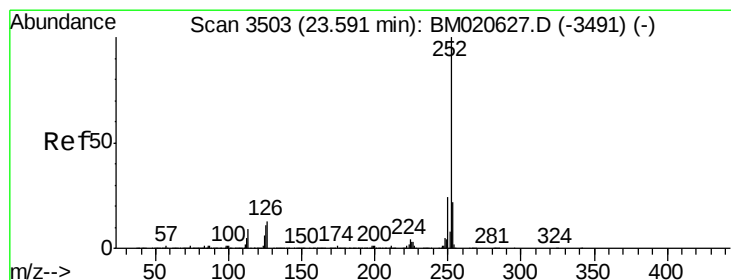
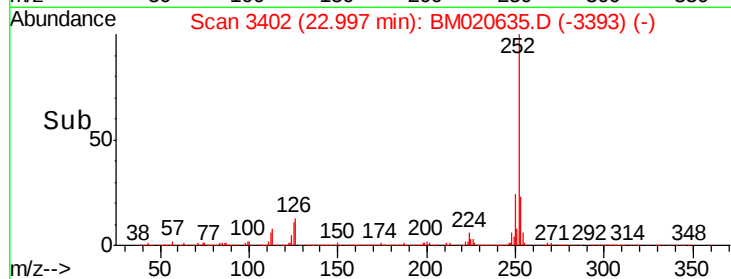
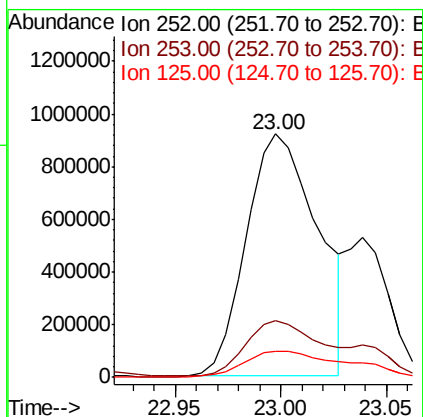
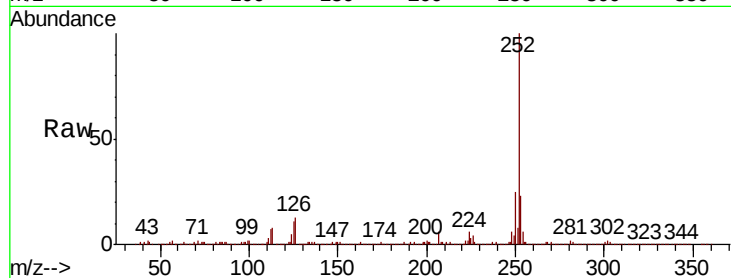




#89
Benzo(k)fluoranthene
Concen: 26.109 ng
RT: 23.00 min Scan# 3402
Delta R.T. -0.05 min
Lab File: BM020635.D
Acq: 31 May 2019 17:46

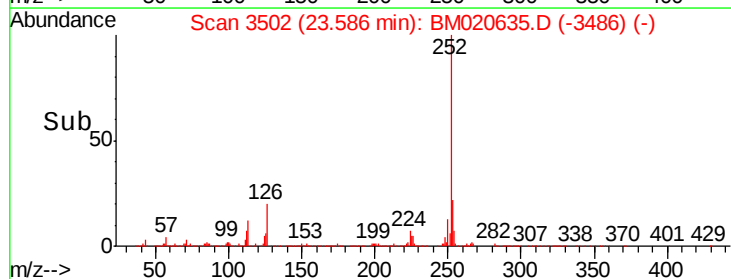
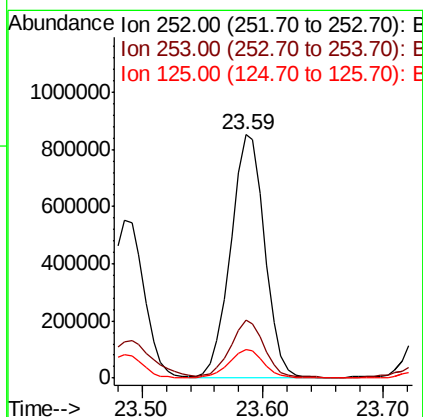
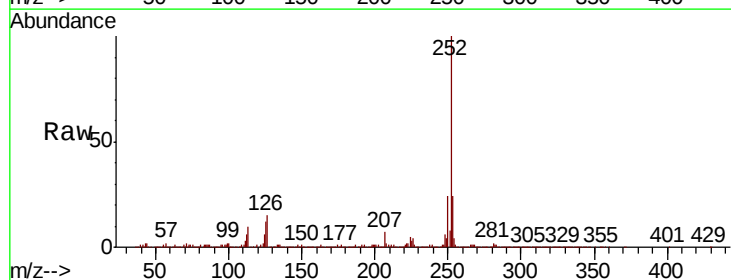
Instrument :
BNA_M
ClientSampleId :
B-6E(7-8)DL

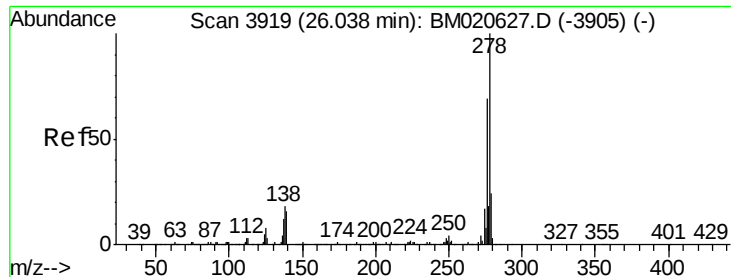
Tot Ion:252 Resp: 2170605
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.2
125 10.9 7.8 11.8



#90
Benzo(a)pyrene
Concen: 21.448 ng
RT: 23.59 min Scan# 3502
Delta R.T. -0.01 min
Lab File: BM020635.D
Acq: 31 May 2019 17:46

Tgt Ion:252 Resp: 1654995
Ion Ratio Lower Upper
252 100
253 23.6 17.5 26.3
125 11.6 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 3.722 ng

RT: 26.02 min Scan# 3916

Delta R.T. -0.02 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

Instrument :

BNA_M

ClientSampleId :

B-6E(7-8)DL

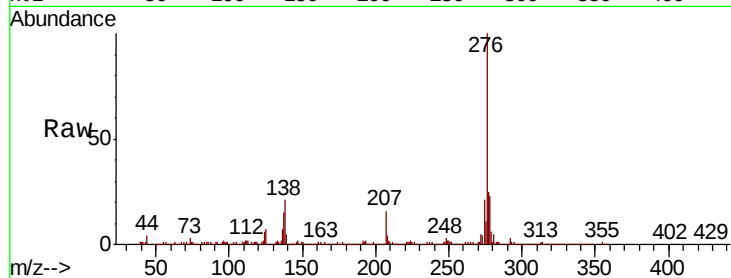
Tot Ion:278 Resp: 278639

Ion Ratio Lower Upper

278 100

139 22.6 12.6 18.8#

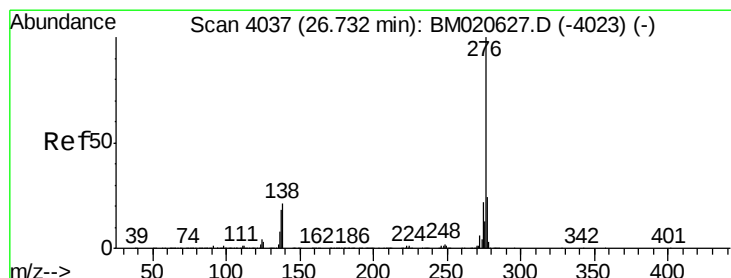
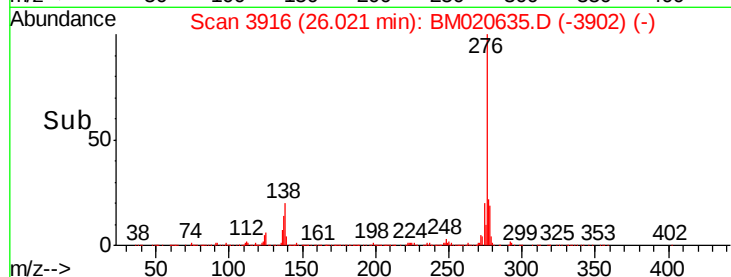
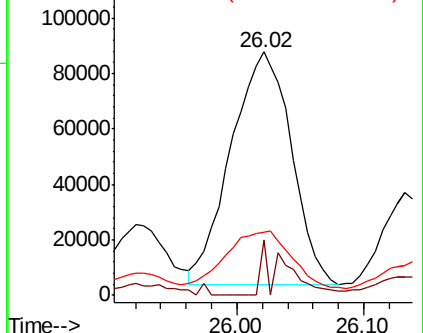
279 26.1 19.0 28.6



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(g,h,i)perylene

Concen: 15.297 ng

RT: 26.73 min Scan# 4037

Delta R.T. 0.00 min

Lab File: BM020635.D

Acq: 31 May 2019 17:46

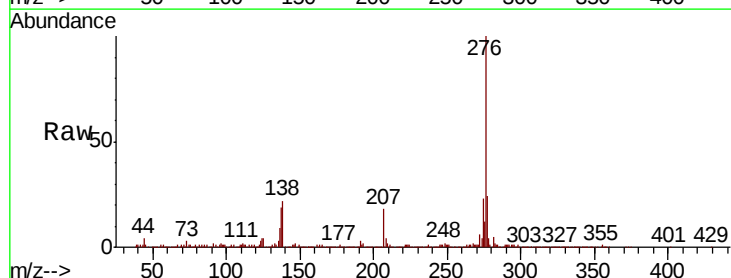
Tgt Ion:276 Resp: 1063655

Ion Ratio Lower Upper

276 100

277 24.3 19.2 28.8

138 21.6 17.0 25.4



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

