

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\
 Data File : BF113045.D
 Acq On : 13 Mar 2019 23:40
 Operator : JU/SJ
 Sample : K1693-05 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 14 02:04:11 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 13 03:42:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	166540	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	732227	20.00	ng	0.00
39) Acenaphthene-d10	9.76	164	400406	20.00	ng	-0.01
64) Phenanthrene-d10	11.24	188	724826	20.00	ng	0.00
76) Chrysene-d12	13.87	240	499471	20.00	ng	0.00
87) Perylene-d12	15.27	264	405657	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.33	112	254042	23.73	ng	-0.01
7) Phenol-d6	6.36	99	349743	26.01	ng	-0.01
23) Nitrobenzene-d5	7.28	82	200865	16.41	ng	-0.02
42) 2,4,6-Tribromophenol	10.55	330	132648	31.21	ng	0.00
45) 2-Fluorobiphenyl	9.08	172	517802	16.66	ng	-0.01
79) Terphenyl-d14	12.82	244	446726	17.34	ng	0.00

Target Compounds

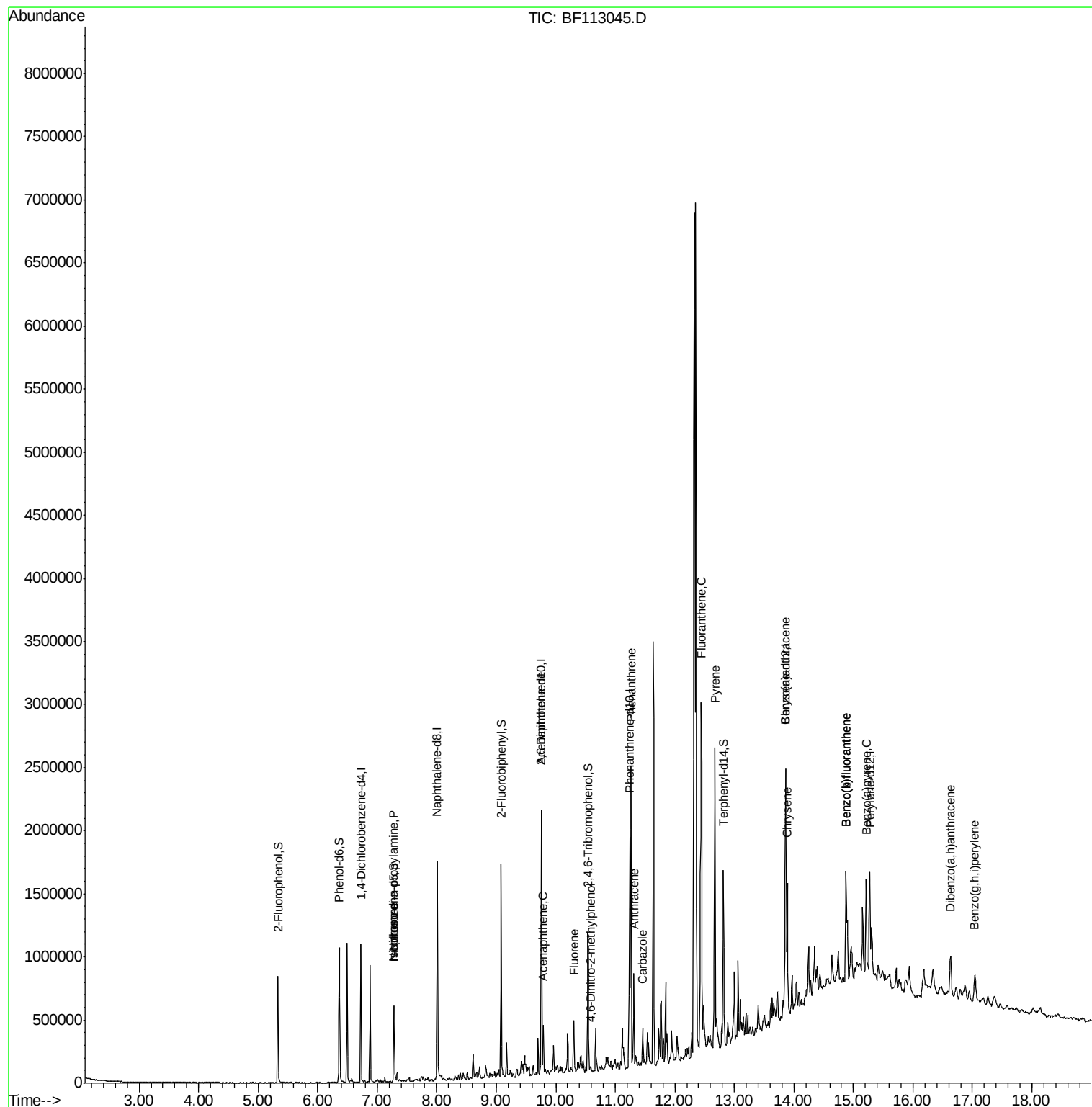
						Qvalue
19) n-Nitroso-di-n-propylamine	7.28	70	26660	3.130	ng	# 77
25) Isophorone	7.28	82	196634	7.459	ng	# 66
51) 2,6-Dinitrotoluene	9.76	165	54730	8.902	ng	# 18
52) Acenaphthene	9.79	154	83134	3.284	ng	97
58) Fluorene	10.30	166	117846	4.512	ng	99
65) 4,6-Dinitro-2-methylphenol	10.58	198	120	4.649	ng	# 1
71) Phenanthrene	11.26	178	854181	23.686	ng	99
72) Anthracene	11.31	178	267666	7.090	ng	97
73) Carbazole	11.46	167	113496	3.082	ng	99
75) Fluoranthene	12.44	202	1171713	30.326	ng	97
78) Pyrene	12.67	202	1054950	25.054	ng	99
81) Benzo(a)anthracene	13.86	228	516648	14.925	ng	98
83) Chrysene	13.89	228	466879	13.769	ng	97
88) Benzo(b)fluoranthene	14.87	252	675692	25.751	ng	97
89) Benzo(k)fluoranthene	14.87	252	675692	28.429	ng	98
90) Benzo(a)pyrene	15.22	252	370978	15.984	ng	97
91) Dibenzo(a,h)anthracene	16.64	278	53686	2.711	ng	# 81
92) Benzo(g,h,i)perylene	17.04	276	191755	9.643	ng	95

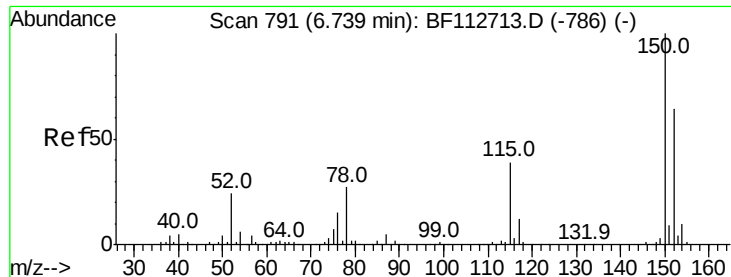
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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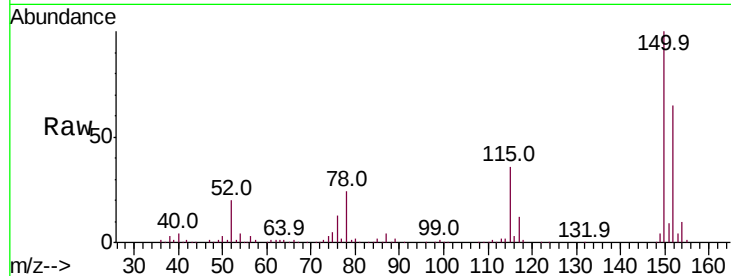


#1

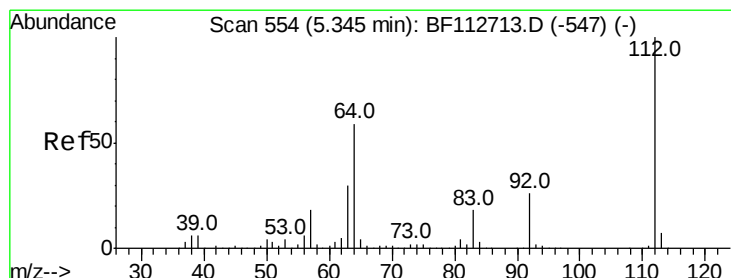
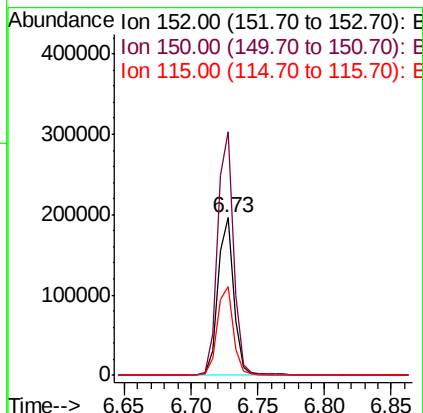
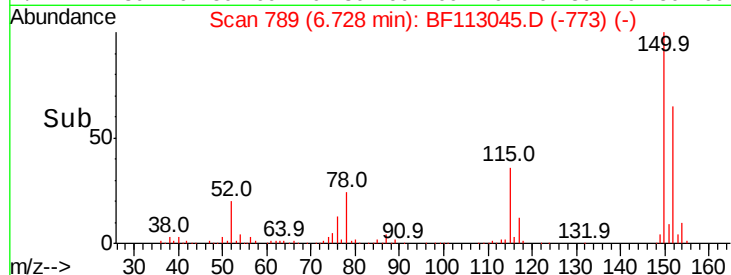
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.01 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 166540
Ion Ratio Lower Upper
152 100
150 154.4 124.2 186.2
115 56.0 48.2 72.4



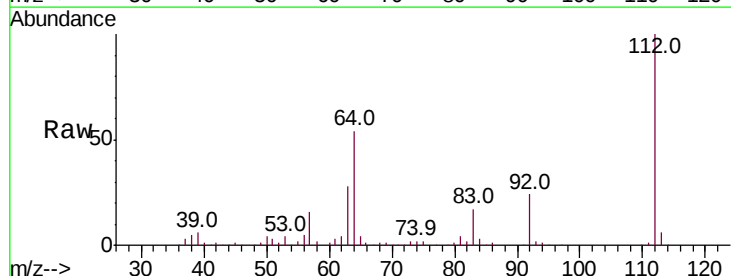
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



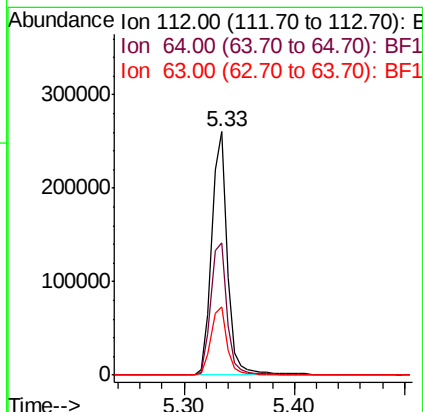
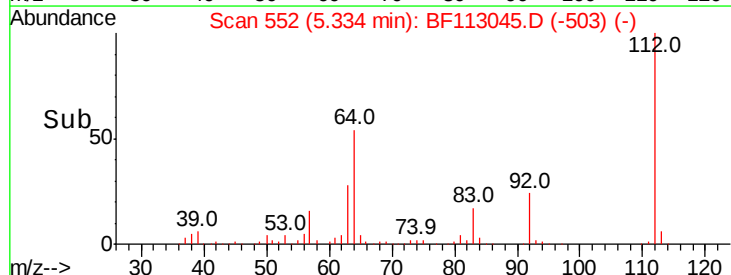
#5

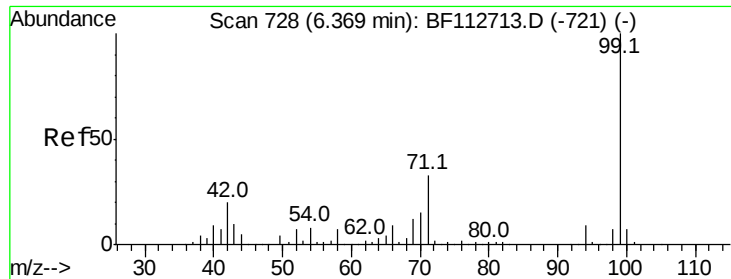
2-Fluorophenol
Concen: 23.728 ng
RT: 5.33 min Scan# 552
Delta R.T. -0.01 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

Tgt Ion:112 Resp: 254042
Ion Ratio Lower Upper
112 100
64 54.4 47.6 71.4
63 28.0 24.4 36.6



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 26.006 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Instrument :

BNA_F

ClientSampled :

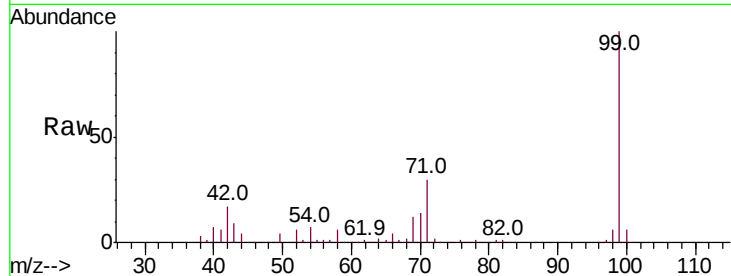
Tot Ion: 99 Resp: 349743

Ion Ratio Lower Upper

99 100

42 17.5 16.3 24.5

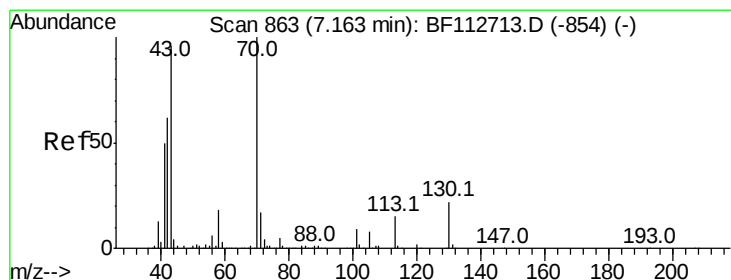
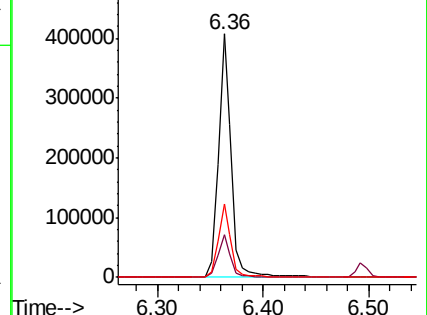
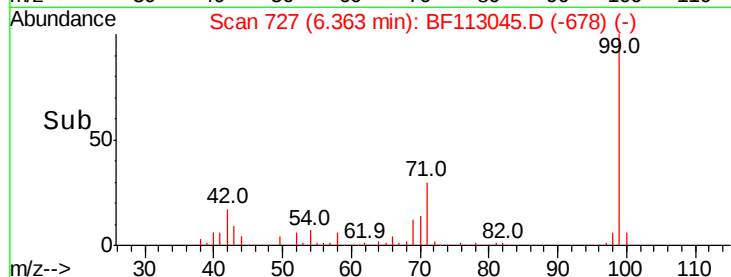
71 30.4 26.2 39.4



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 3.130 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.12 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Tgt Ion: 70 Resp: 26660

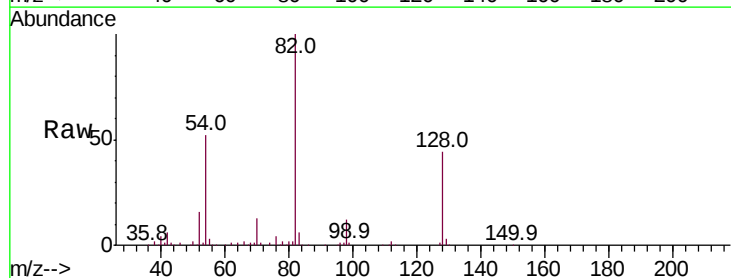
Ion Ratio Lower Upper

70 100

42 49.7 49.9 74.9#

101 0.0 7.4 11.2#

130 2.1 17.4 26.2#

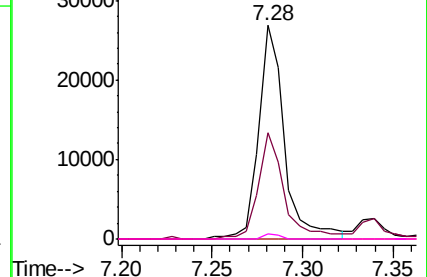
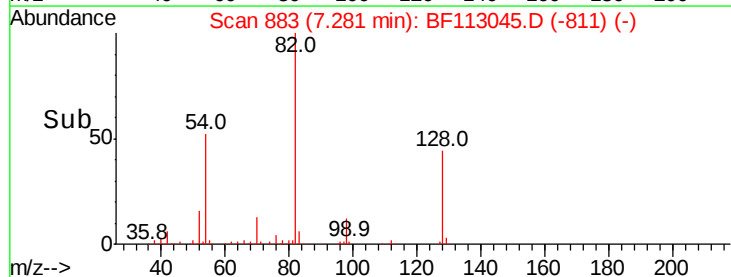


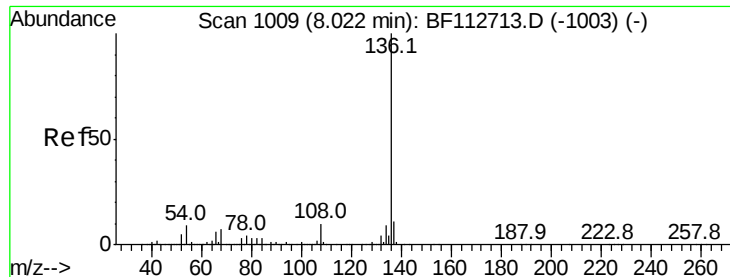
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 732227

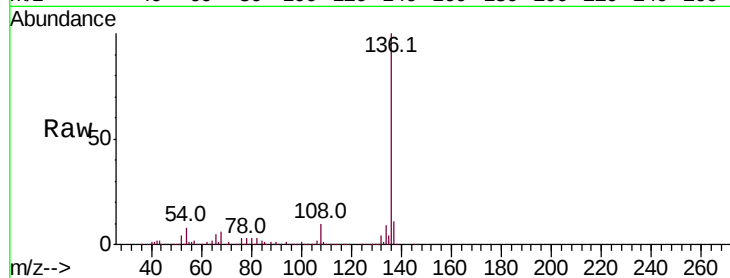
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 7.6 7.3 10.9

68 5.8 5.4 8.2

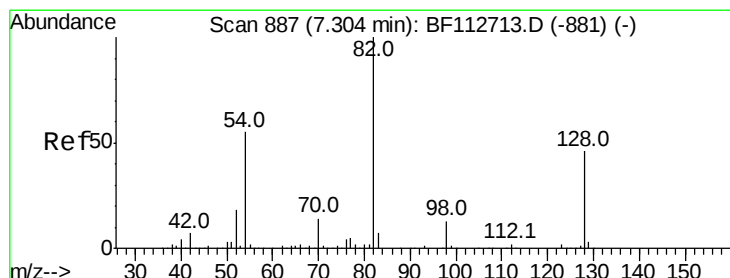
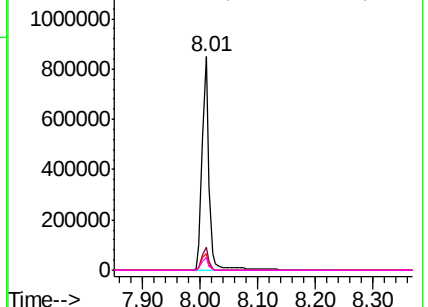
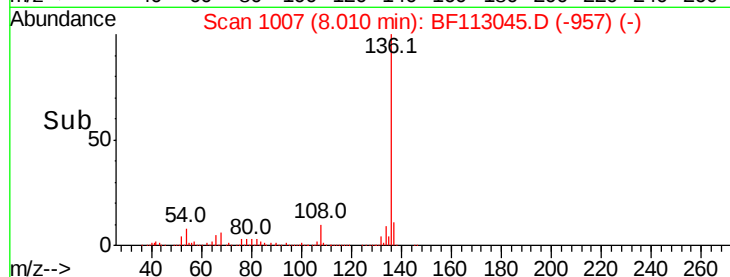


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 16.415 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

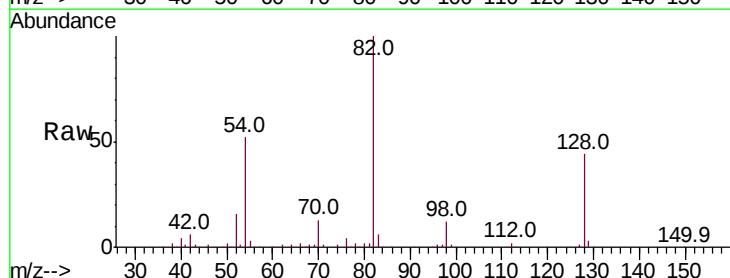
Tgt Ion: 82 Resp: 200865

Ion Ratio Lower Upper

82 100

128 43.7 36.3 54.5

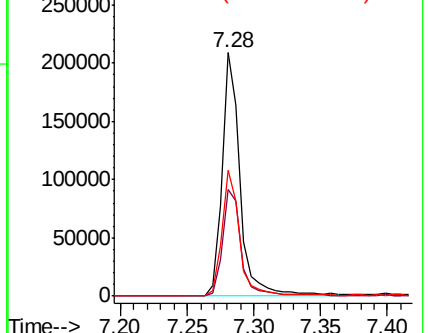
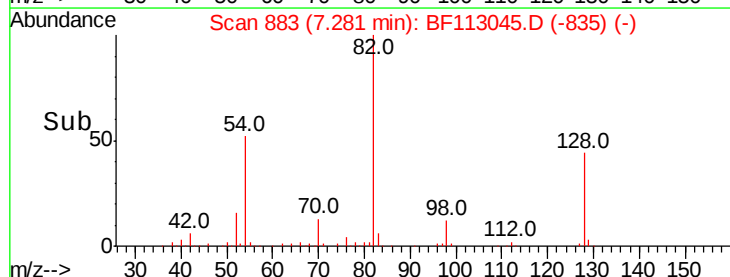
54 51.8 43.7 65.5

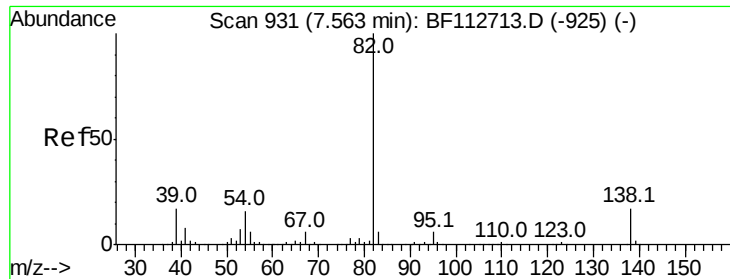


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 7.459 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.28 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Instrument :

BNA_F

ClientSampled :

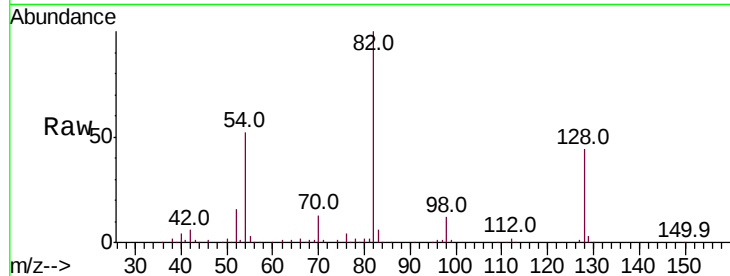
Tot Ion: 82 Resp: 196634

Ion Ratio Lower Upper

82 100

95 0.2 5.2 7.8#

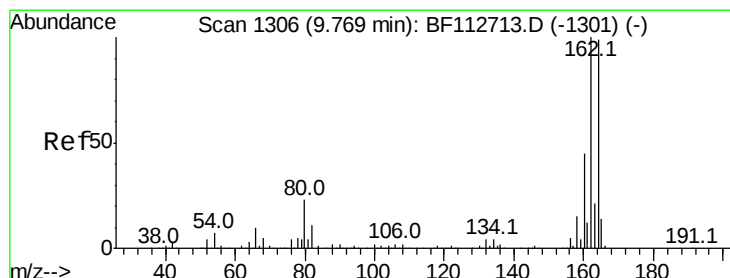
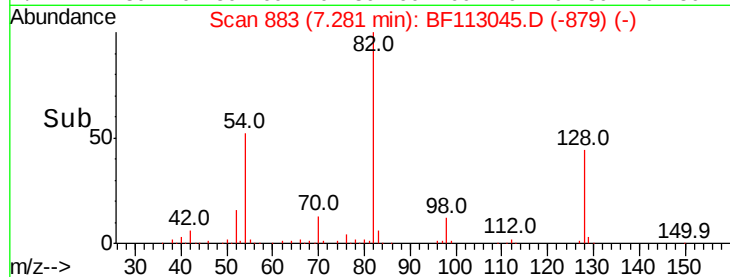
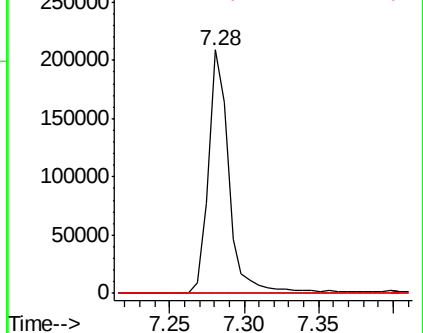
138 0.0 13.8 20.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

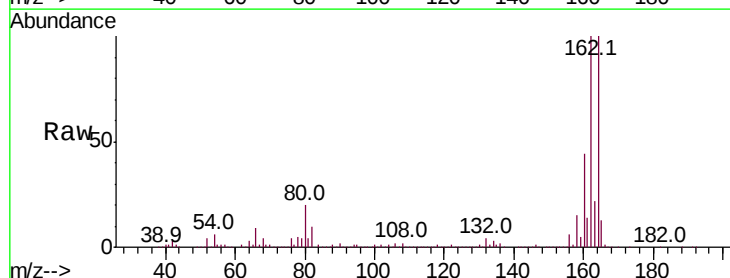
Tgt Ion:164 Resp: 400406

Ion Ratio Lower Upper

164 100

162 99.6 80.6 120.8

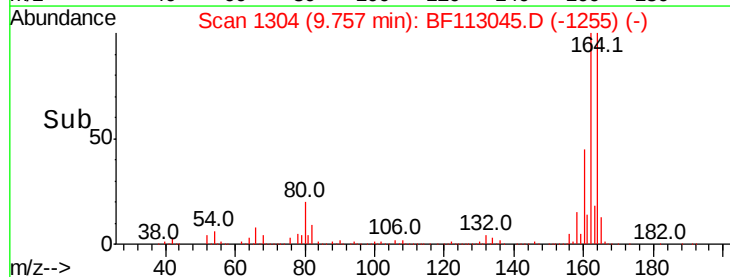
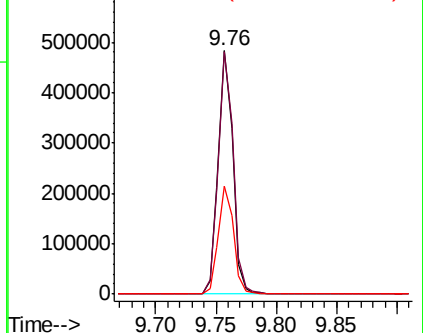
160 44.3 36.0 54.0

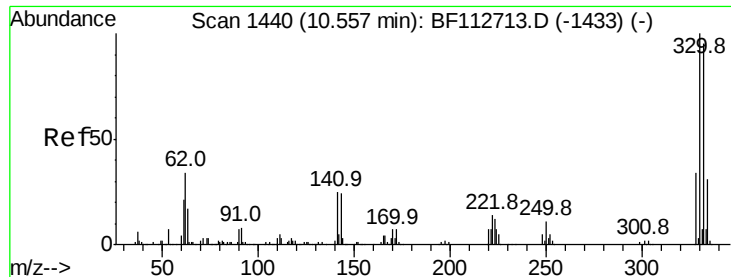


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

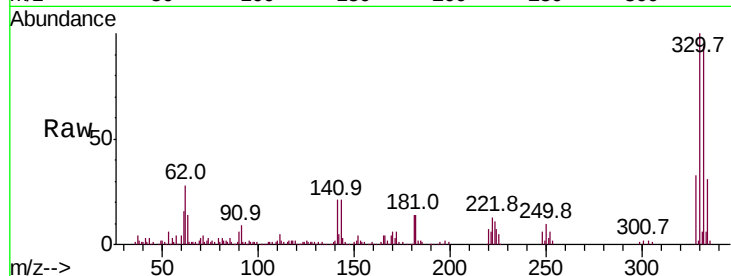




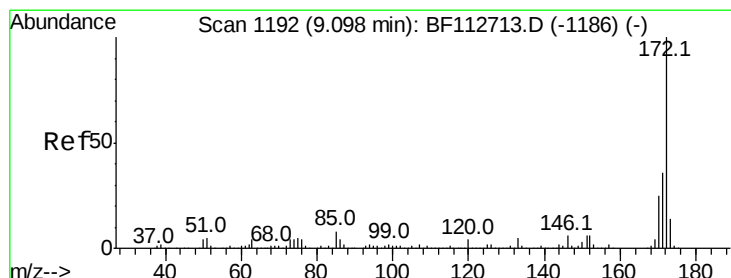
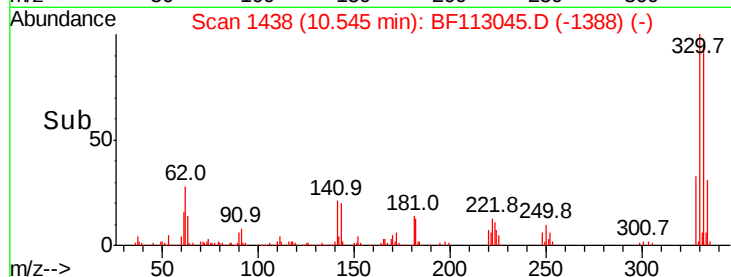
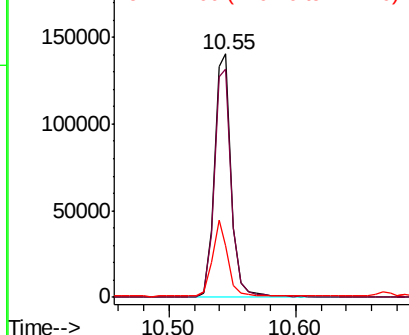
#42
 2,4,6-Tribromophenol
 Concen: 31.205 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF113045.D
 Acq: 13 Mar 2019 23:40

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 132648
 Ion Ratio Lower Upper
 330 100
 332 95.8 76.2 114.4
 141 28.8 27.0 40.6

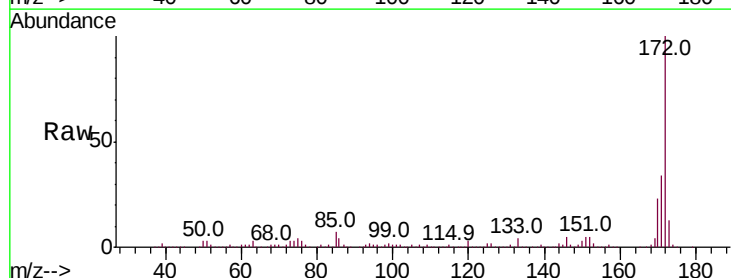


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

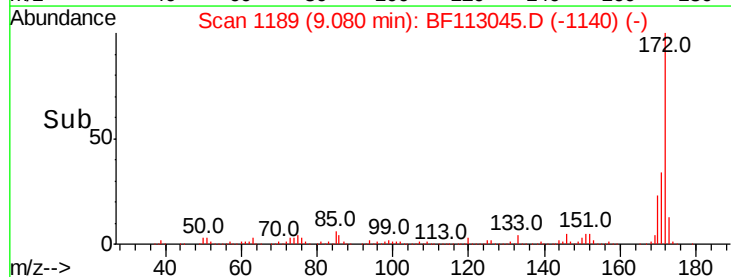
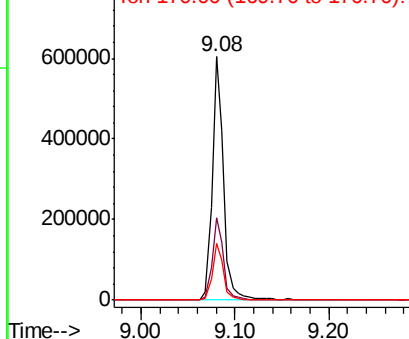


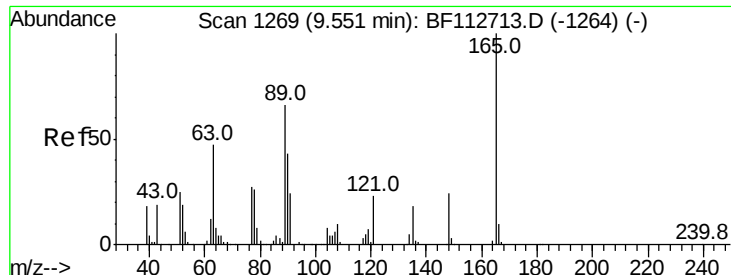
#45
 2-Fluorobiphenyl
 Concen: 16.663 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF113045.D
 Acq: 13 Mar 2019 23:40

Tgt Ion:172 Resp: 517802
 Ion Ratio Lower Upper
 172 100
 171 34.1 29.0 43.4
 170 23.1 20.0 30.0



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





#51

2,6-Dinitrotoluene

Concen: 8.902 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.21 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Instrument :

BNA_F

ClientSampleId :

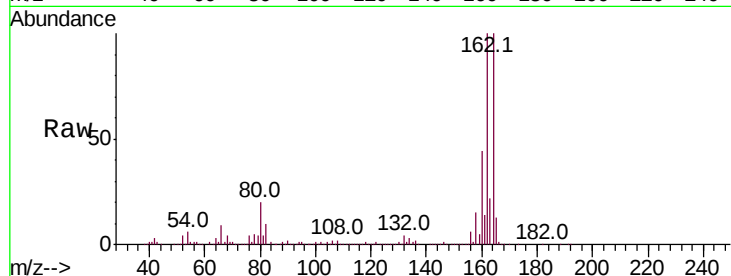
Tot Ion:165 Resp: 54730

Ion Ratio Lower Upper

165 100

63 1.2 54.1 81.1#

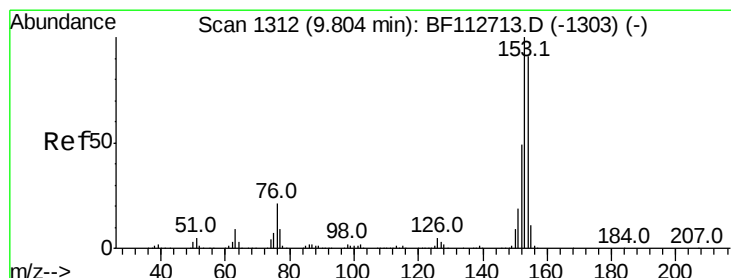
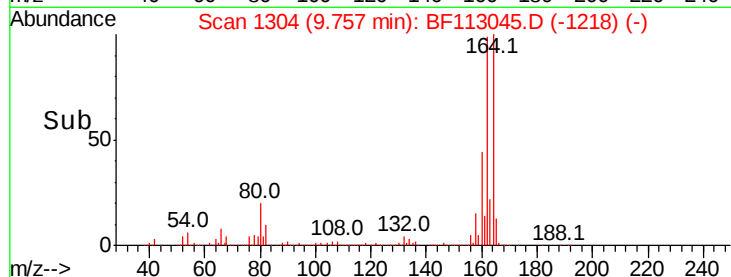
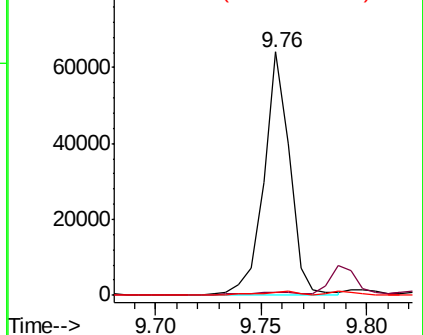
89 1.3 52.8 79.2#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#52

Acenaphthene

Concen: 3.284 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

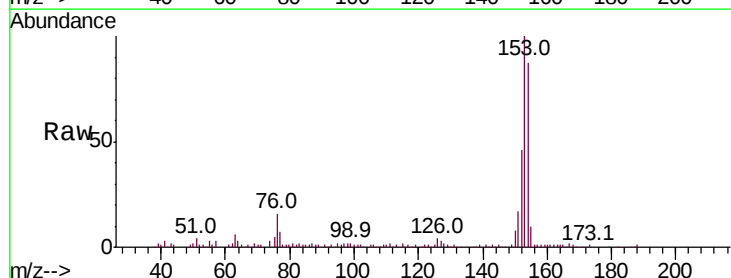
Tgt Ion:154 Resp: 83134

Ion Ratio Lower Upper

154 100

153 114.3 87.8 131.8

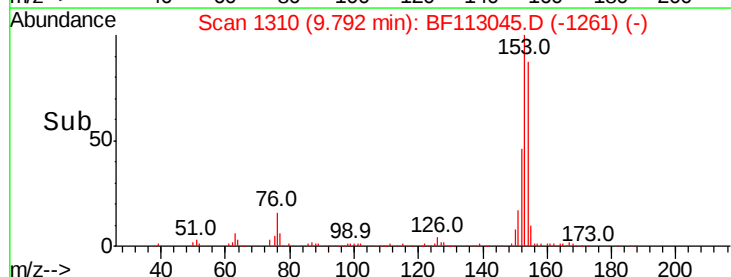
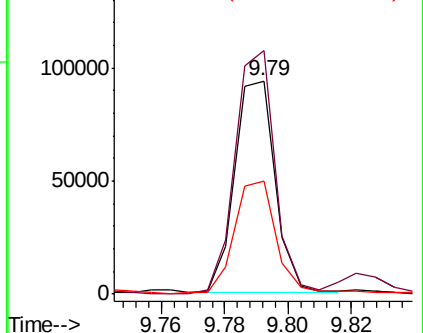
152 52.8 43.0 64.6

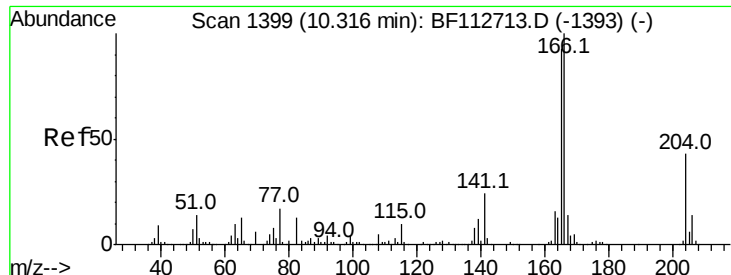


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#58

Fluorene

Concen: 4.512 ng

RT: 10.30 min Scan# 1397

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Instrument :

BNA_F

ClientSampleId :

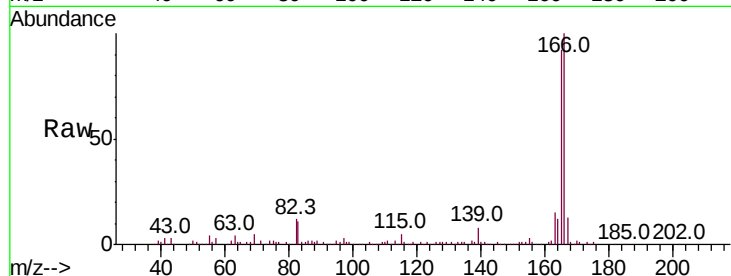
Tot Ion:166 Resp: 117846

Ion Ratio Lower Upper

166 100

165 92.5 74.7 112.1

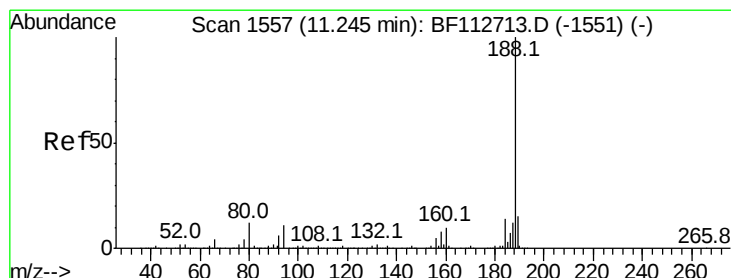
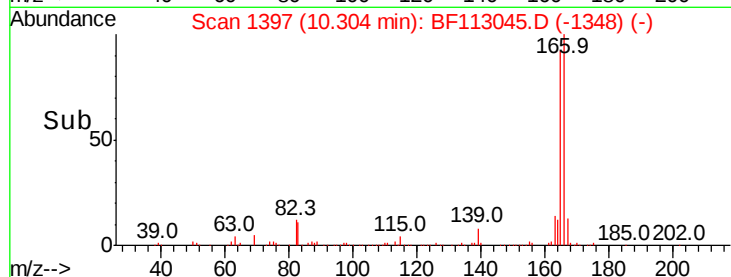
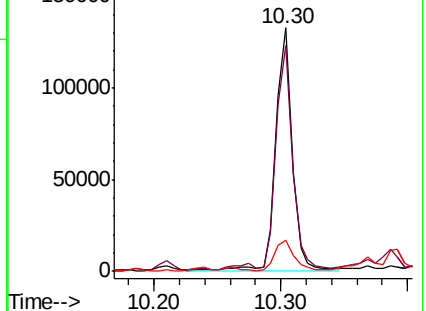
167 13.0 11.0 16.6



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: 11.24 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

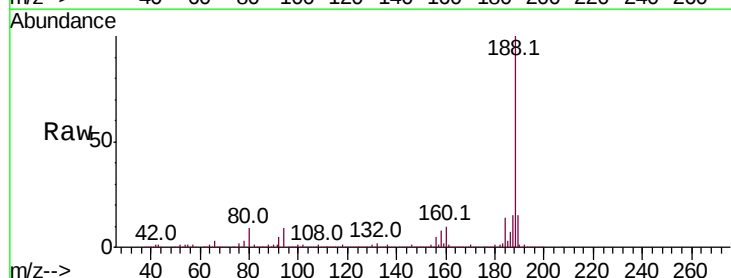
Tgt Ion:188 Resp: 724826

Ion Ratio Lower Upper

188 100

94 9.2 9.0 13.4

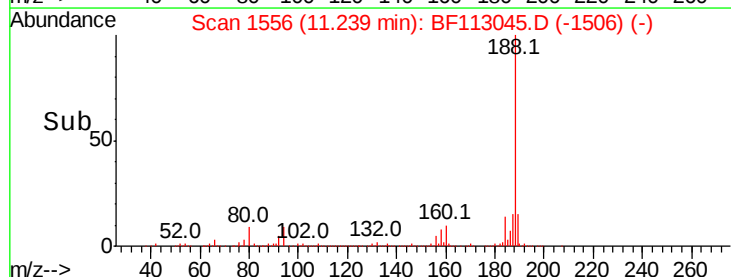
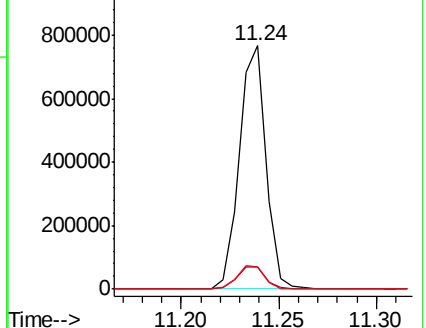
80 8.9 9.2 13.8#

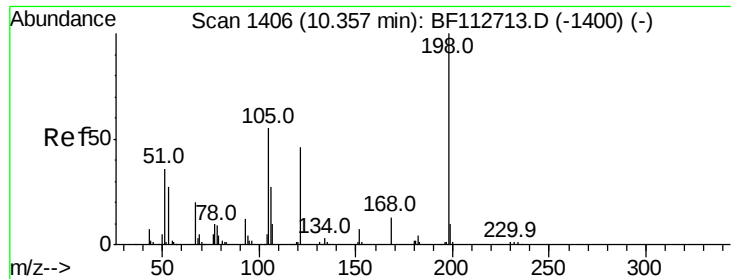


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

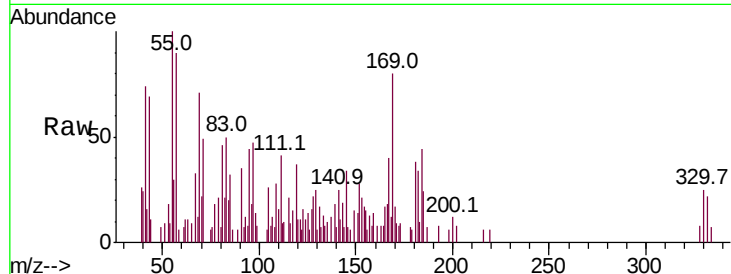




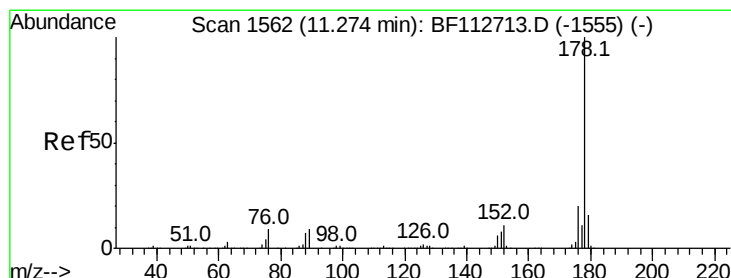
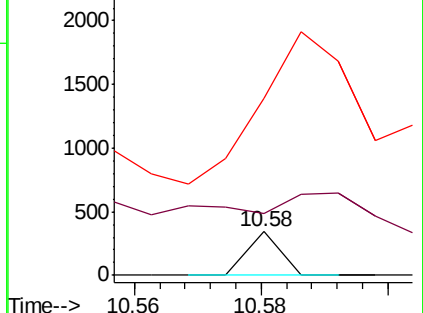
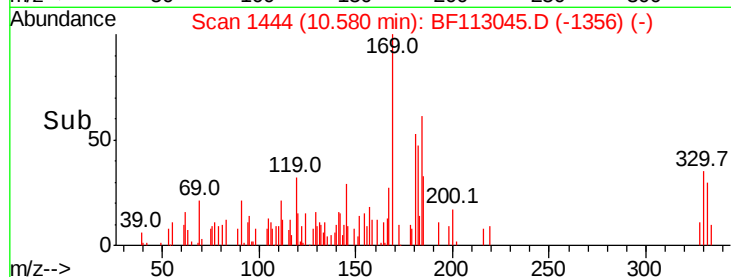
#65
4,6-Dinitro-2-methylphenol
Concen: 4.649 ng
RT: 10.58 min Scan# 1444
Delta R.T. 0.22 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

Instrument :
BNA_F
ClientSampled :

Tot Ion:198 Resp: 120
Ion Ratio Lower Upper
198 100
51 144.0 43.8 83.8#
105 406.7 36.5 76.5#

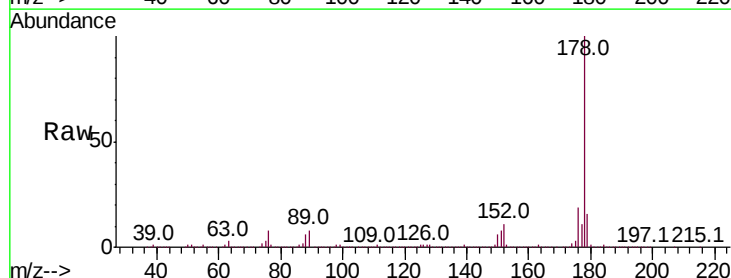


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF1
Ion 105.00 (104.70 to 105.70): E

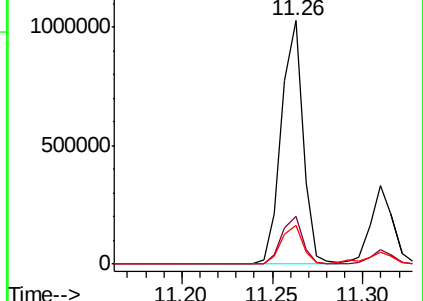
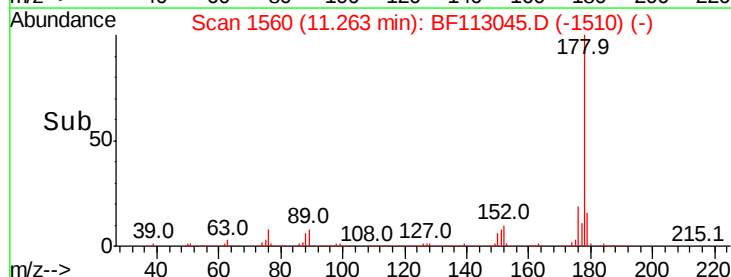


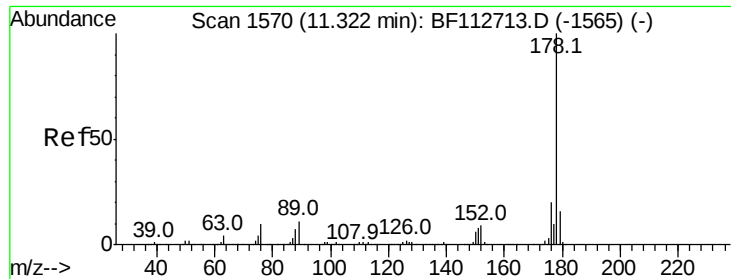
#71
Phenanthrene
Concen: 23.686 ng
RT: 11.26 min Scan# 1560
Delta R.T. -0.01 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

Tgt Ion:178 Resp: 854181
Ion Ratio Lower Upper
178 100
176 19.5 16.3 24.5
179 15.7 12.7 19.1



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: 7.090 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

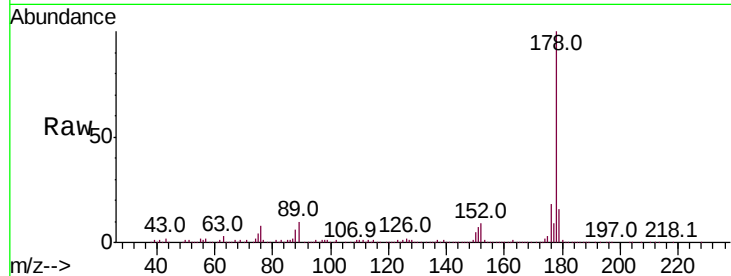
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 267666

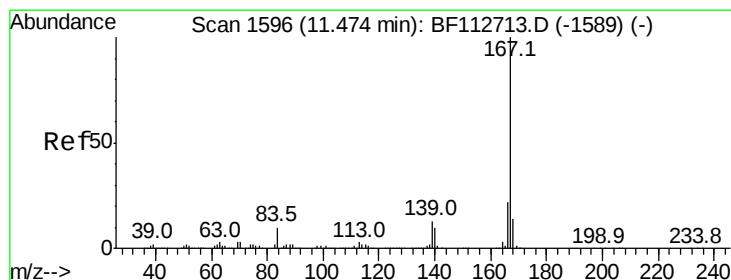
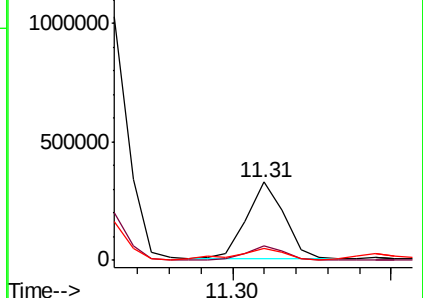
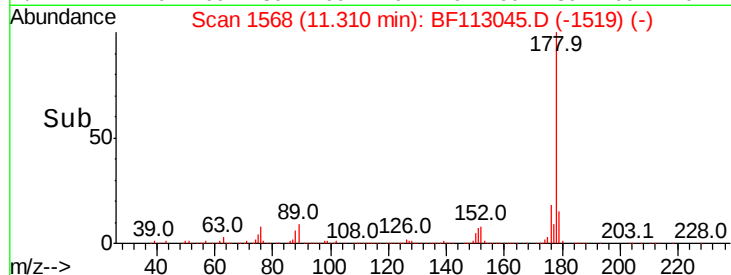
Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.8	23.6
179	15.5	13.0	19.6



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: 3.082 ng

RT: 11.46 min Scan# 1594

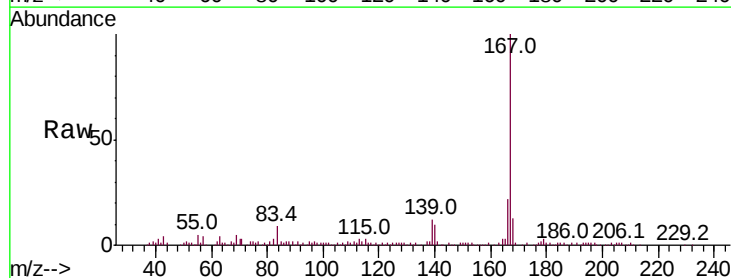
Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Tgt Ion:167 Resp: 113496

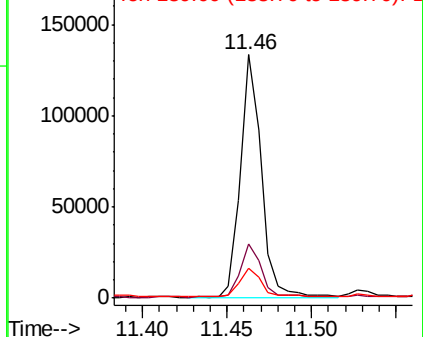
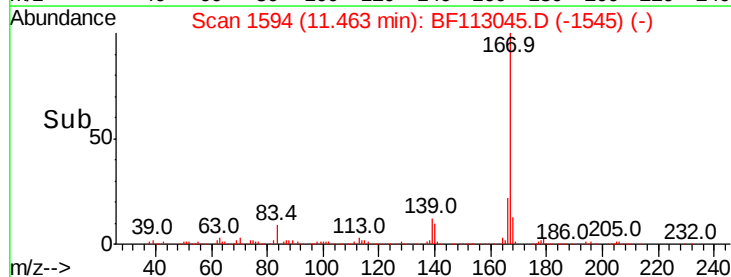
Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.5	26.3
139	12.5	10.8	16.2

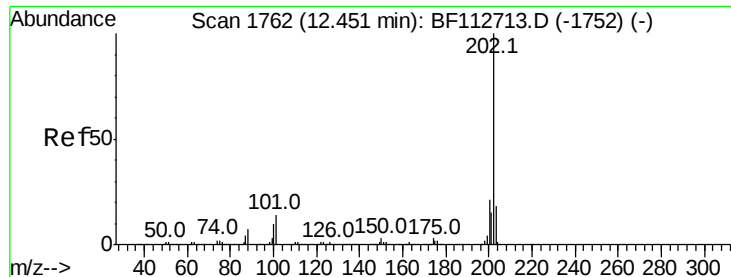


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 30.326 ng

RT: 12.44 min Scan# 1761

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

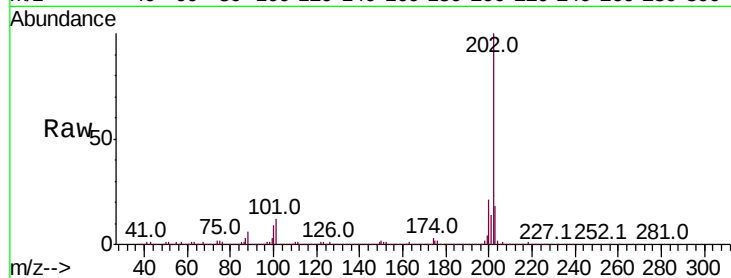
Instrument :

BNA_F

ClientSampleId :

Tot Ion:202 Resp: 1171713

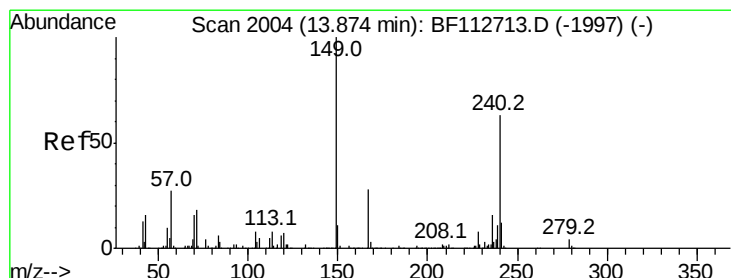
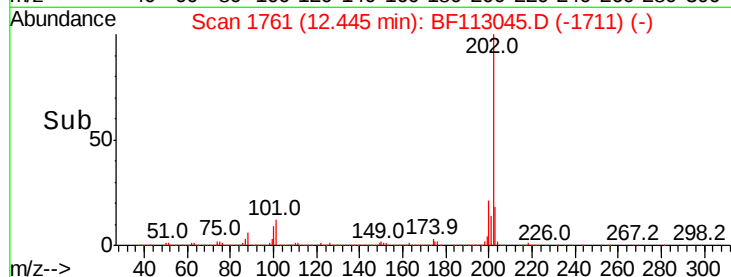
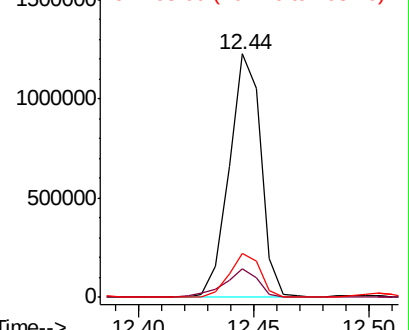
Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	33.8
203	18.1	0.0	38.4



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: 13.87 min Scan# 2003

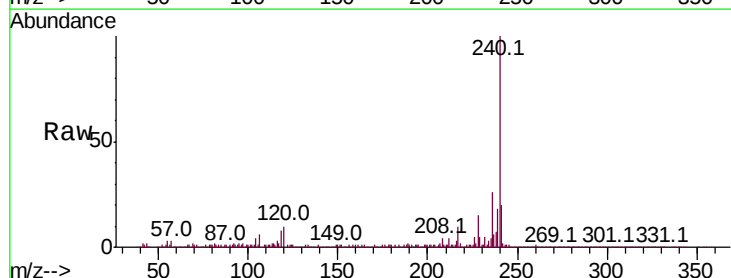
Delta R.T. -0.00 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Tgt Ion:240 Resp: 499471

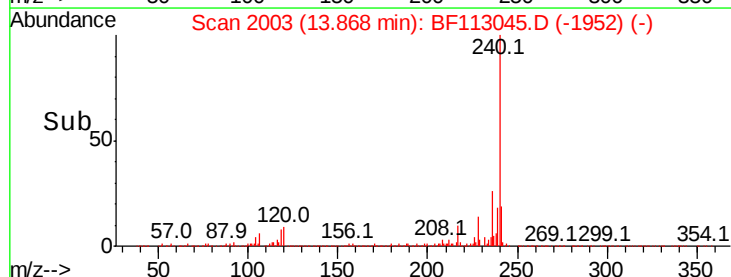
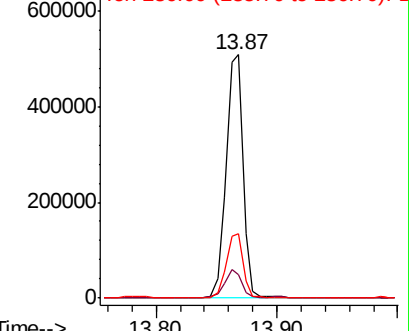
Ion	Ratio	Lower	Upper
240	100		
120	9.7	8.9	13.3
236	26.3	20.7	31.1

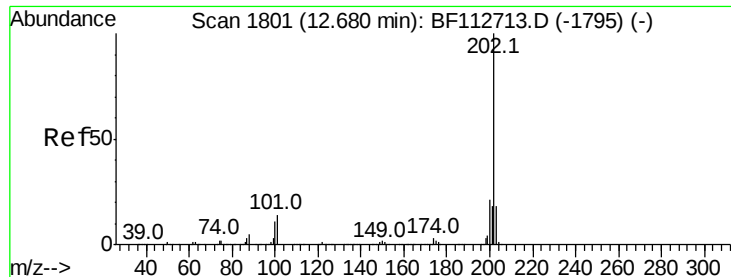


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 25.054 ng

RT: 12.67 min Scan# 1800

Delta R.T. -0.00 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

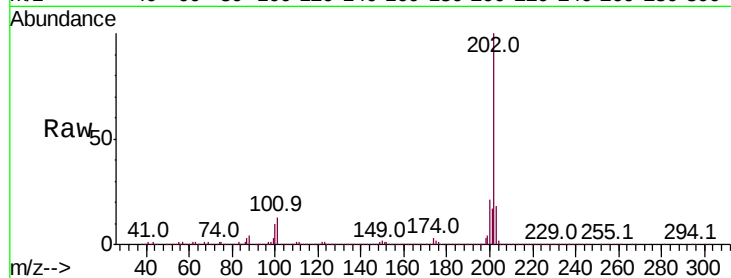
Instrument :

BNA_F

ClientSampled :

Tot Ion:202 Resp: 1054950

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	18.3	14.4	21.6

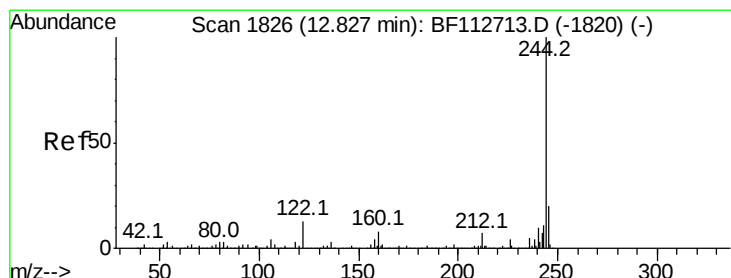
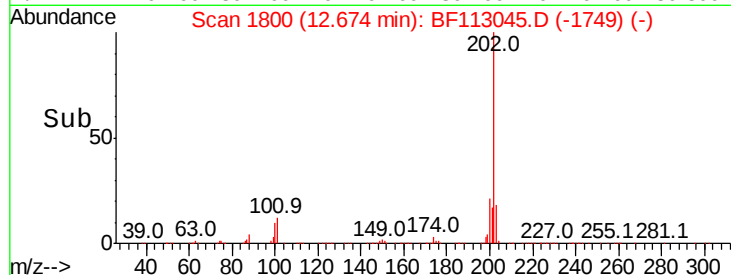
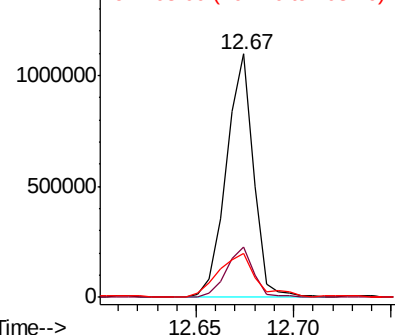


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 17.338 ng

RT: 12.82 min Scan# 1824

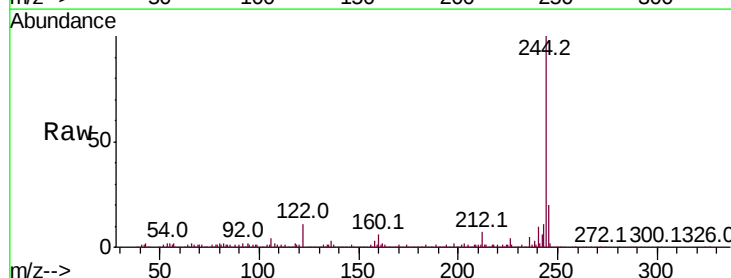
Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Tgt Ion:244 Resp: 446726

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.6	10.5	15.7

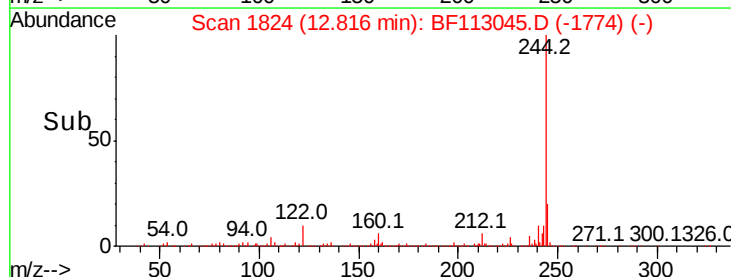
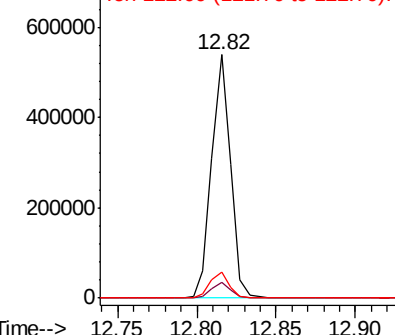


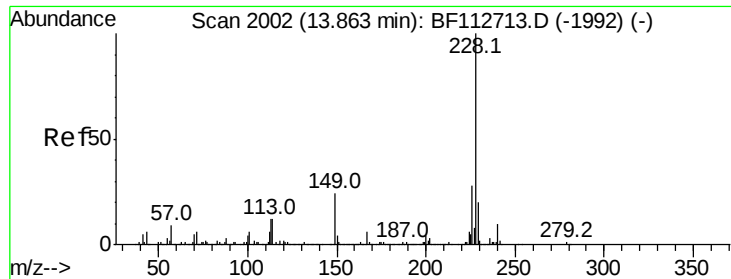
Abundance

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

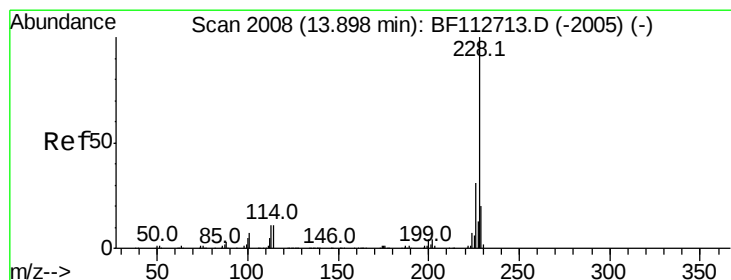
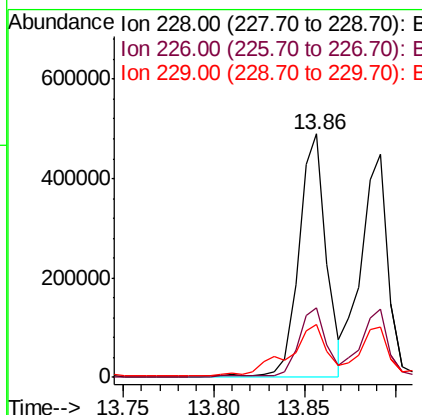
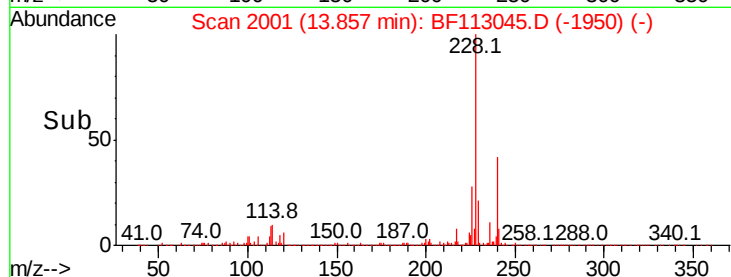
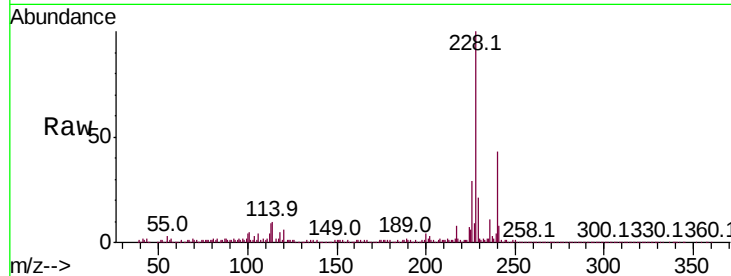




#81
Benzo(a)anthracene
Concen: 14.925 ng
RT: 13.86 min Scan# 2001
Delta R.T. -0.00 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

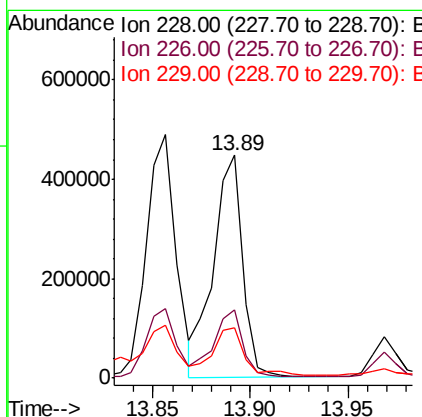
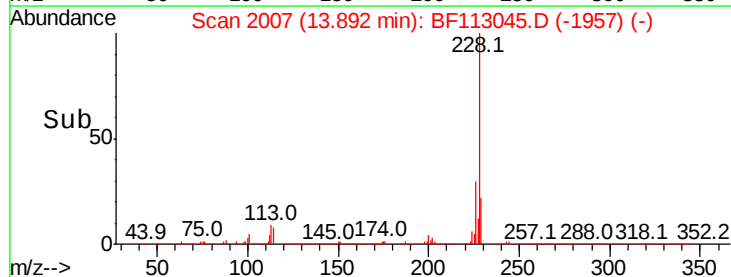
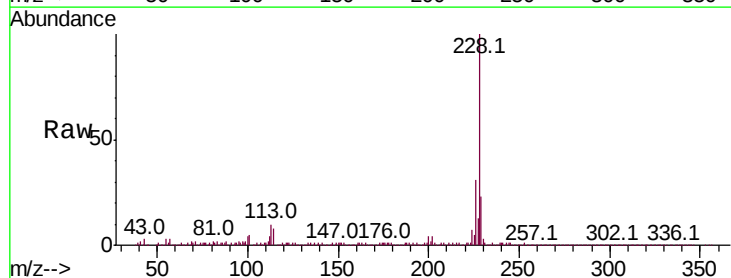
Instrument :
BNA_F
ClientSampleId :

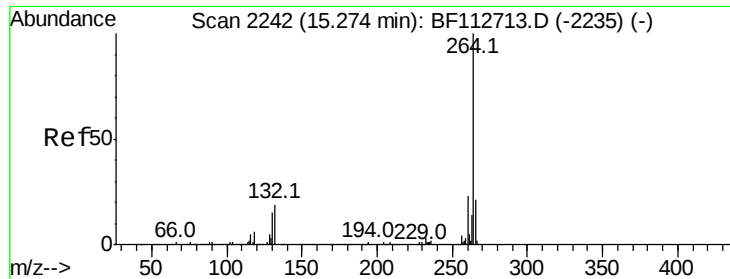
Tot Ion:228 Resp: 516648
Ion Ratio Lower Upper
228 100
226 28.6 22.2 33.4
229 21.5 16.0 24.0



#83
Chrysene
Concen: 13.769 ng
RT: 13.89 min Scan# 2007
Delta R.T. -0.01 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

Tgt Ion:228 Resp: 466879
Ion Ratio Lower Upper
228 100
226 30.5 24.9 37.3
229 22.6 16.3 24.5

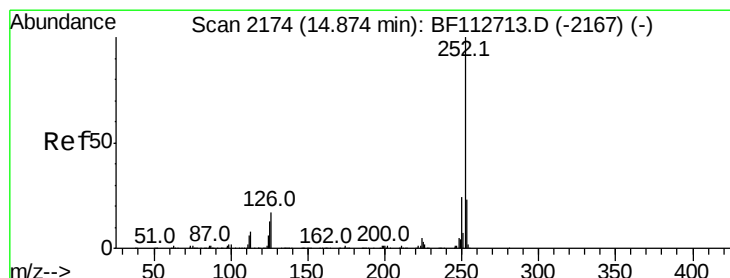
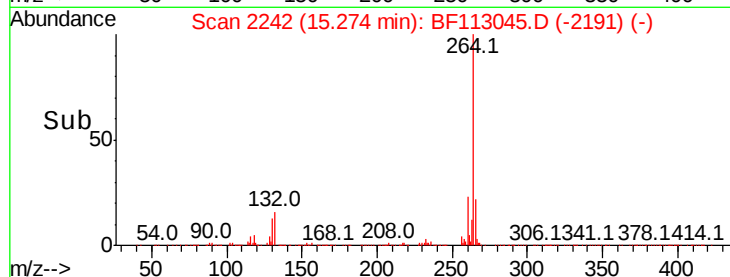
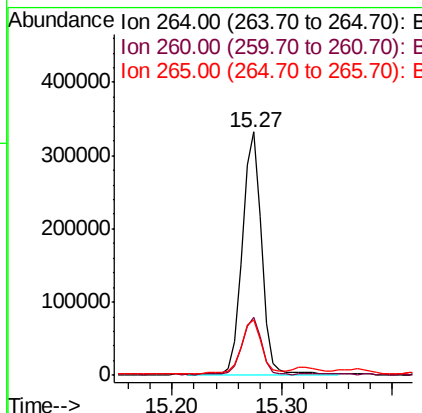
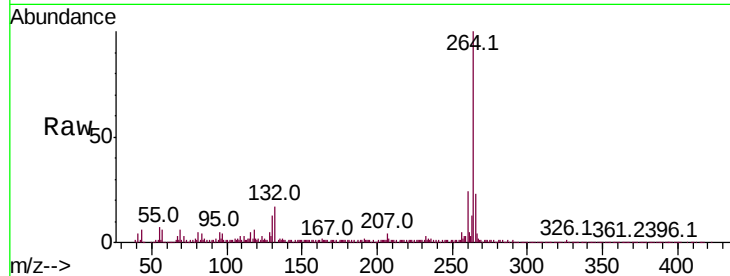




#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.27 min Scan# 2242
Delta R.T. -0.00 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

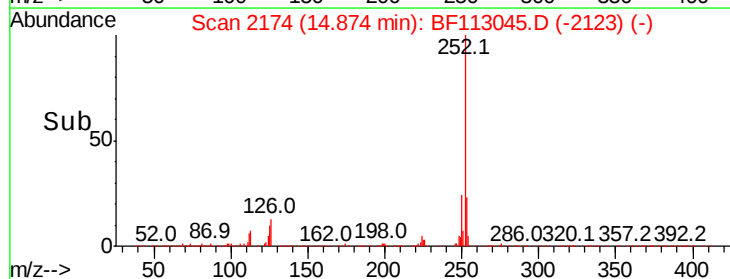
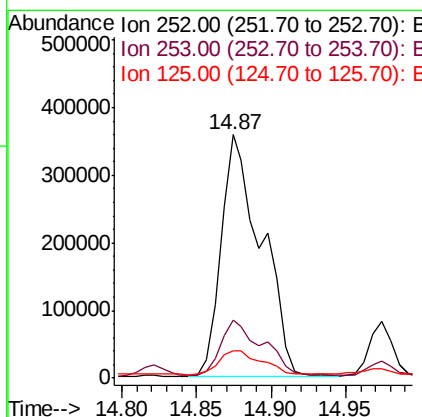
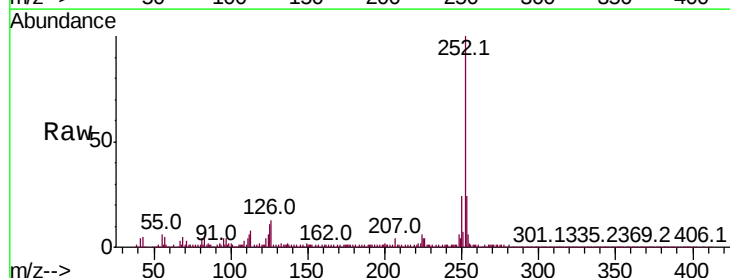
Instrument :
BNA_F
ClientSampleId :

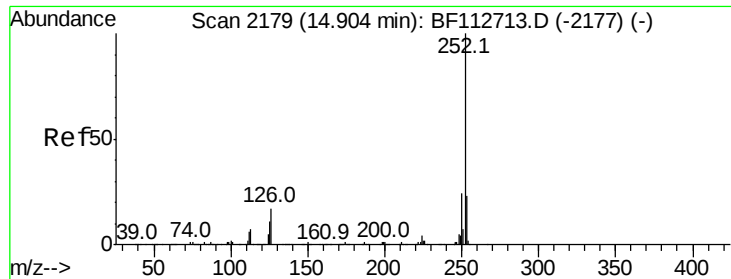
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.7	28.1
265	22.6	17.2	25.8



#88
Benzo(b)fluoranthene
Concen: 25.751 ng
RT: 14.87 min Scan# 2174
Delta R.T. -0.00 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.0	27.0
125	11.4	10.2	15.2

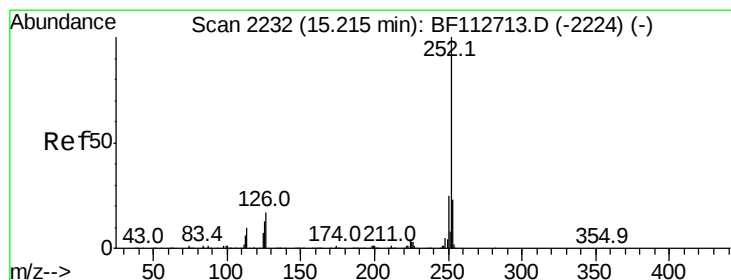
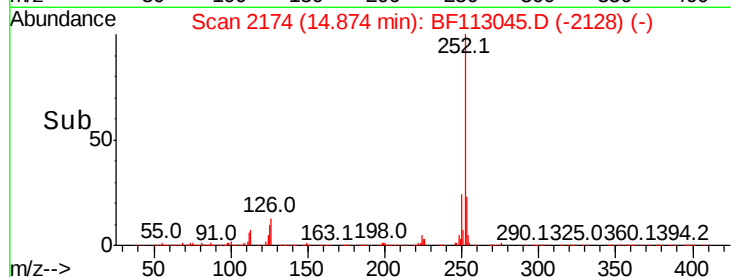
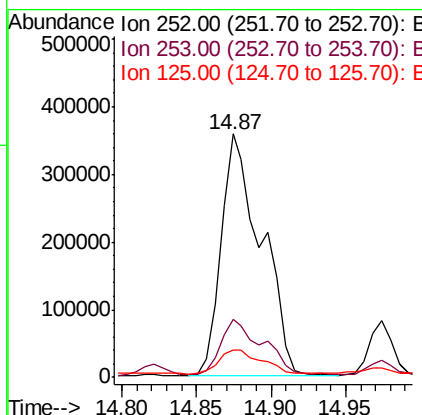
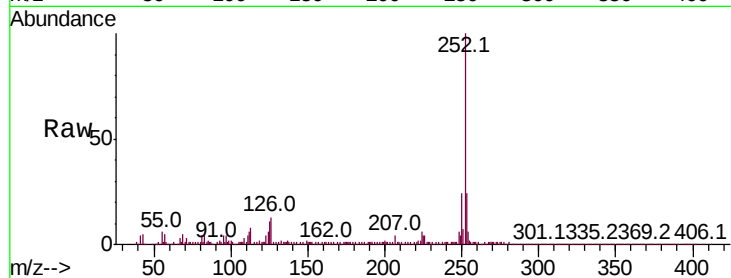




#89
Benzo(k)fluoranthene
Concen: 28.429 ng
RT: 14.87 min Scan# 2174
Delta R.T. -0.03 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

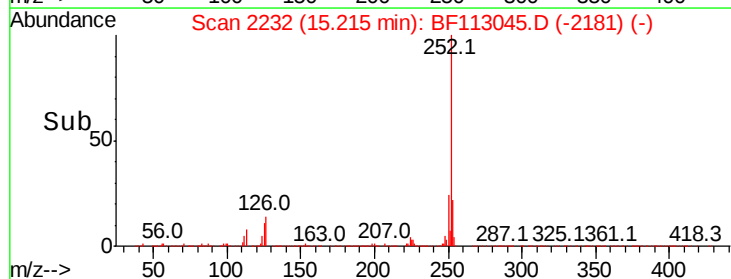
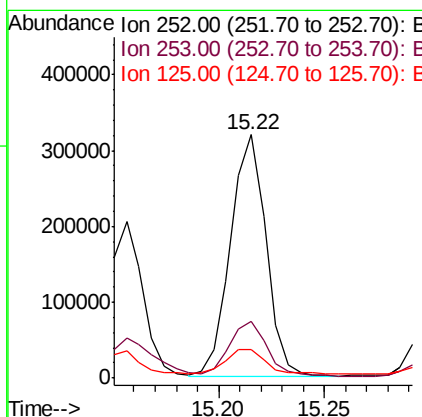
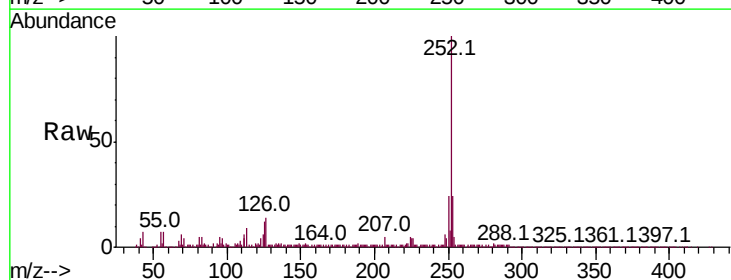
Instrument :
BNA_F
ClientSampleId :

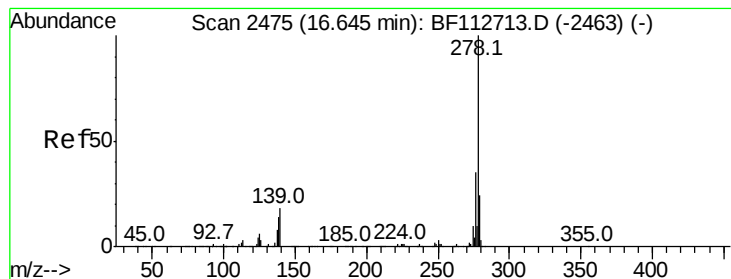
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.2	27.2
125	11.4	9.8	14.6



#90
Benzo(a)pyrene
Concen: 15.984 ng
RT: 15.22 min Scan# 2232
Delta R.T. -0.00 min
Lab File: BF113045.D
Acq: 13 Mar 2019 23:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	12.0	10.7	16.1





#91

Dibenzo(a,h)anthracene

Concen: 2.711 ng

RT: 16.64 min Scan# 2474

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

Instrument :

BNA_F

ClientSampleId :

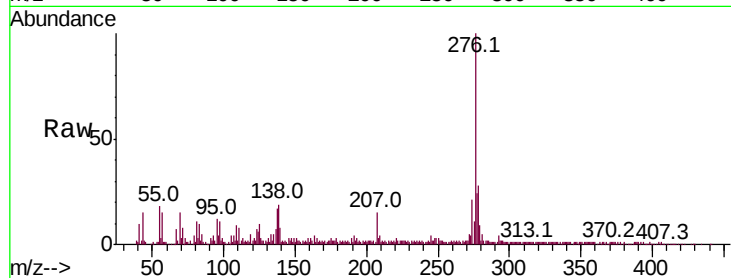
Tot Ion:278 Resp: 53686

Ion Ratio Lower Upper

278 100

139 27.1 14.3 21.5#

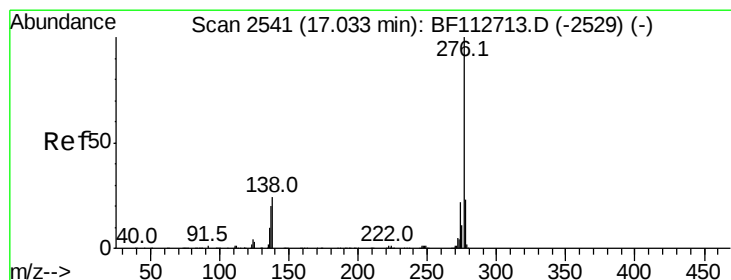
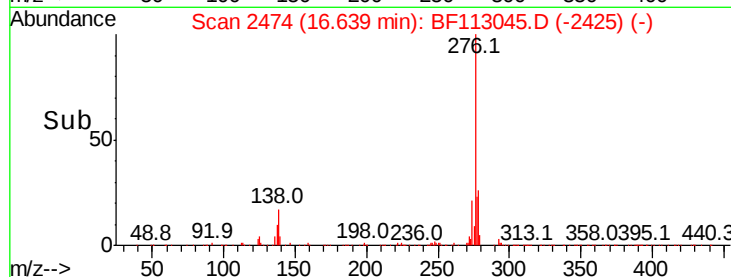
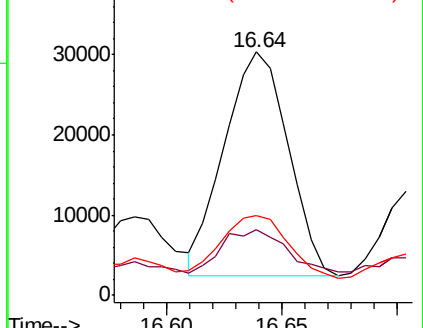
279 33.0 19.4 29.0#



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: 9.643 ng

RT: 17.04 min Scan# 2542

Delta R.T. -0.01 min

Lab File: BF113045.D

Acq: 13 Mar 2019 23:40

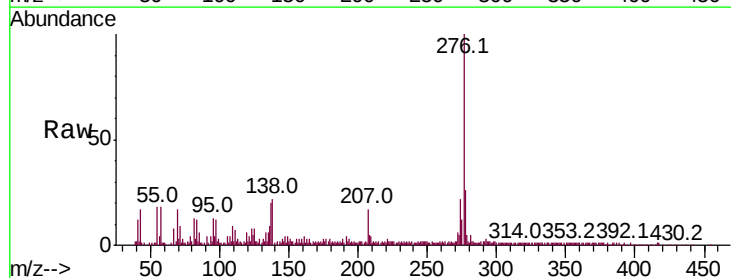
Tgt Ion:276 Resp: 191755

Ion Ratio Lower Upper

276 100

277 25.6 18.6 27.8

138 21.7 19.4 29.0



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

