

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032319\
 Data File : BF113256.D
 Acq On : 23 Mar 2019 11:53
 Operator : JU/SJ
 Sample : K2004-12
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 23 22:56:45 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	6.71	152	182207	20.00	ng	-0.02
21) Naphthalene-d8	7.99	136	730981	20.00	ng	-0.02
39) Acenaphthene-d10	9.75	164	361940	20.00	ng	-0.02
64) Phenanthrene-d10	11.23	188	774531	20.00	ng	-0.02
76) Chrysene-d12	13.86	240	458269	20.00	ng	-0.01
87) Perylene-d12	15.27	264	463997	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.34	112	1325947	113.20	ng	0.00
7) Phenol-d6	6.37	99	1749389	118.89	ng	0.00
23) Nitrobenzene-d5	7.28	82	1121009	91.77	ng	-0.02
42) 2,4,6-Tribromophenol	10.54	330	582576	151.62	ng	-0.01
45) 2-Fluorobiphenyl	9.07	172	1820081	82.73	ng	-0.02
79) Terphenyl-d14	12.82	244	1945842	82.31	ng	0.00

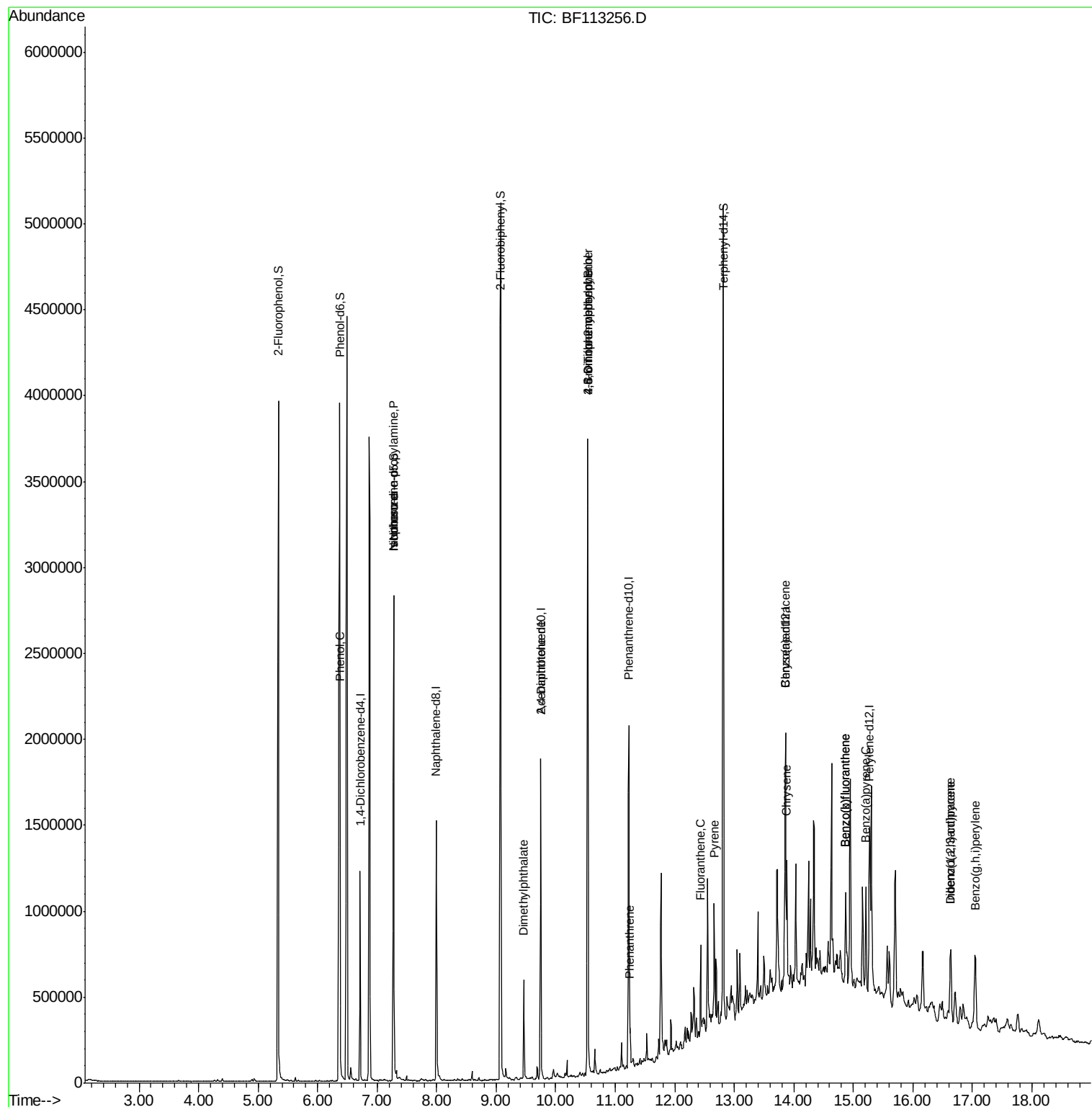
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.38	94	92656	5.396	ng	88
19) n-Nitroso-di-n-propylamine	7.28	70	145865	15.653	ng	# 75
25) Isophorone	7.28	82	1121002	42.595	ng	# 66
50) Dimethylphthalate	9.46	163	231040	8.657	ng	99
57) 2,4-Dinitrotoluene	9.75	165	47511	6.878	ng	# 18
65) 4,6-Dinitro-2-methylphenol	10.54	198	992	4.894	ng	# 1
67) 4-Bromophenyl-phenylether	10.54	248	33655	4.125	ng	# 1
71) Phenanthrene	11.25	178	86739	2.251	ng	99
75) Fluoranthene	12.43	202	204703	4.958	ng	96
78) Pyrene	12.66	202	291197	7.537	ng	98
81) Benzo(a)anthracene	13.85	228	261956	8.248	ng	97
83) Chrysene	13.88	228	325361	10.458	ng	97
86) Indeno(1,2,3-cd)pyrene	16.63	276	260727	9.830	ng	# 92
88) Benzo(b)fluoranthene	14.87	252	355147	11.833	ng	99
89) Benzo(k)fluoranthene	14.87	252	355147	13.064	ng	99
90) Benzo(a)pyrene	15.21	252	270812	10.201	ng	97
91) Dibenzo(a,h)anthracene	16.64	278	126311	5.576	ng	# 94
92) Benzo(g,h,i)perylene	17.04	276	344744	15.156	ng	96

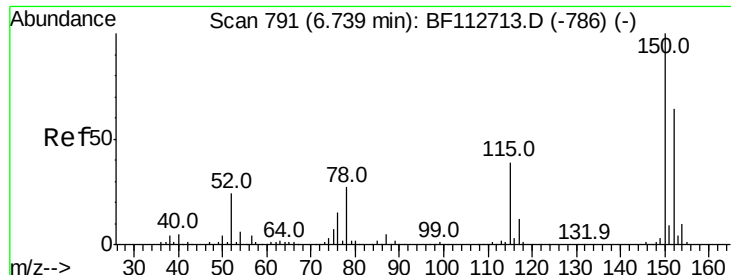
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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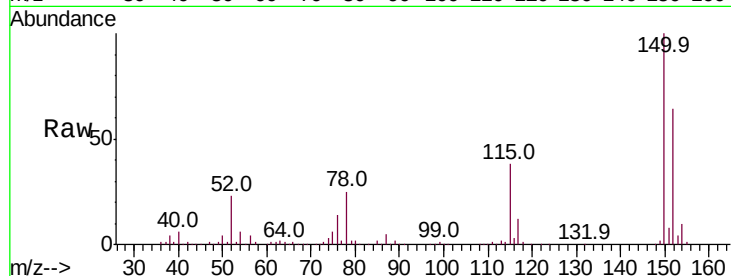


#1

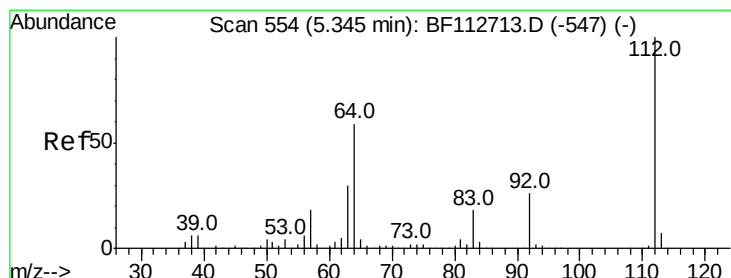
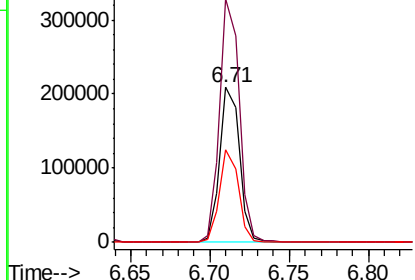
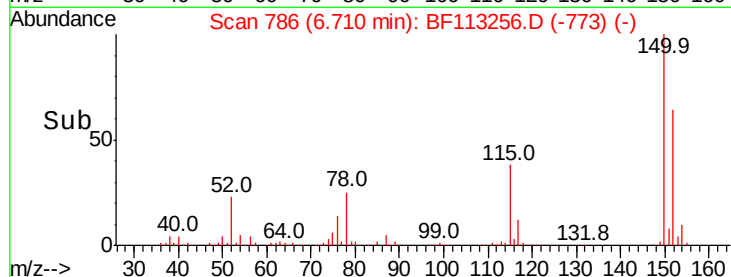
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.71 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 182207
Ion Ratio Lower Upper
152 100
150 157.2 124.2 186.2
115 59.9 48.2 72.4



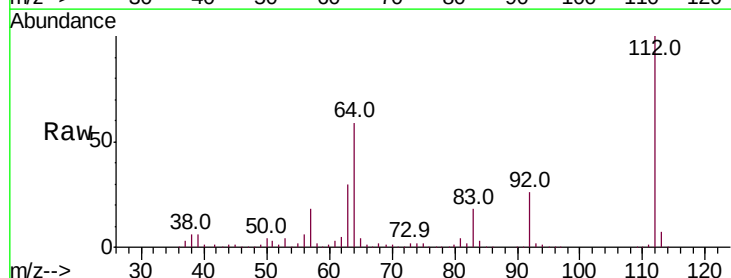
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



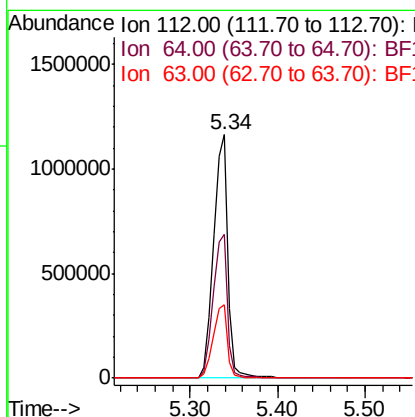
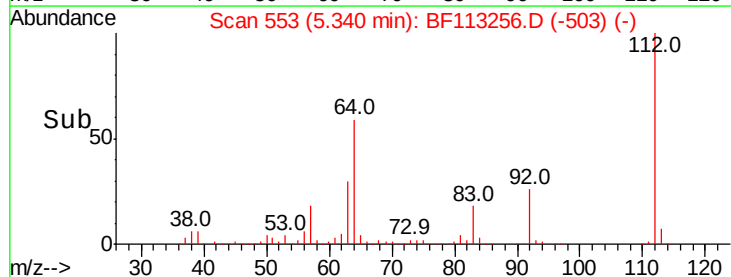
#5

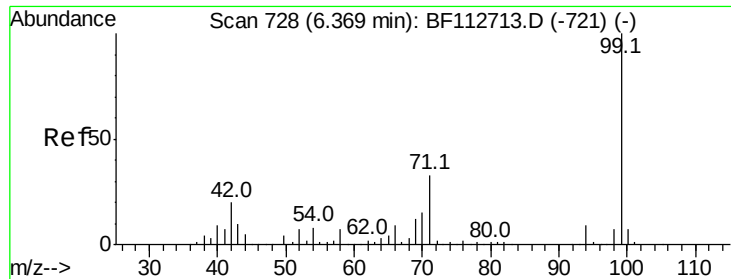
2-Fluorophenol
Concen: 113.199 ng
RT: 5.34 min Scan# 553
Delta R.T. -0.01 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

Tgt Ion:112 Resp: 1325947
Ion Ratio Lower Upper
112 100
64 59.0 47.6 71.4
63 29.9 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: 118.893 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

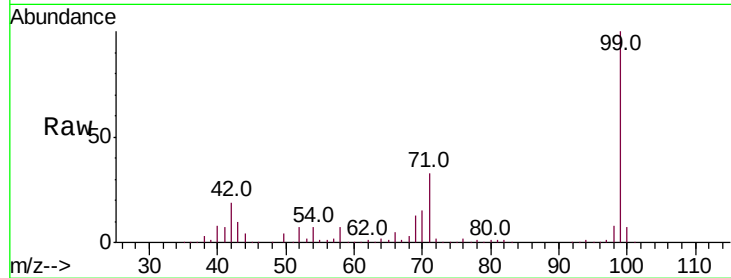
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1749389

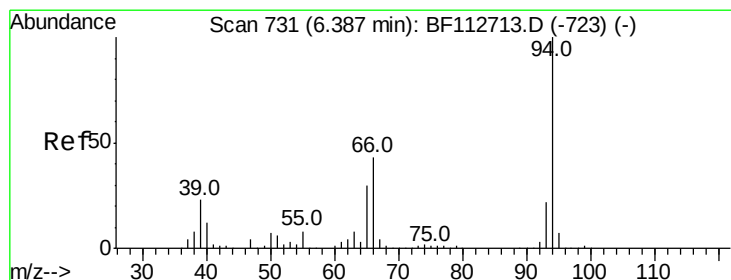
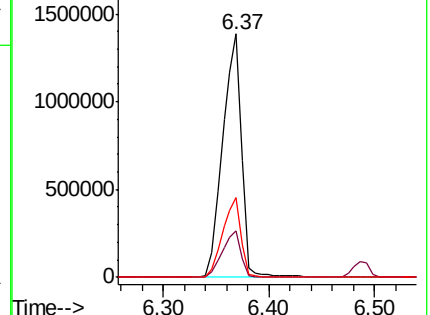
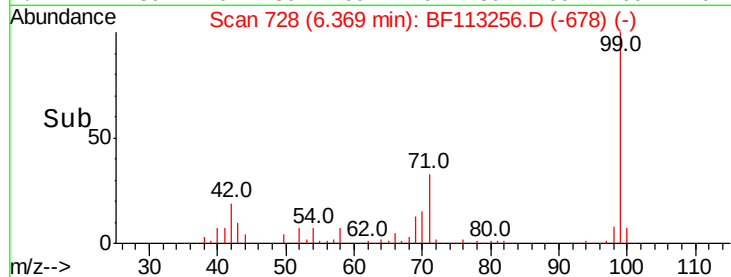
Ion	Ratio	Lower	Upper
99	100		
42	19.2	16.3	24.5
71	32.8	26.2	39.4



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



#10

Phenol

Concen: 5.396 ng

RT: 6.38 min Scan# 730

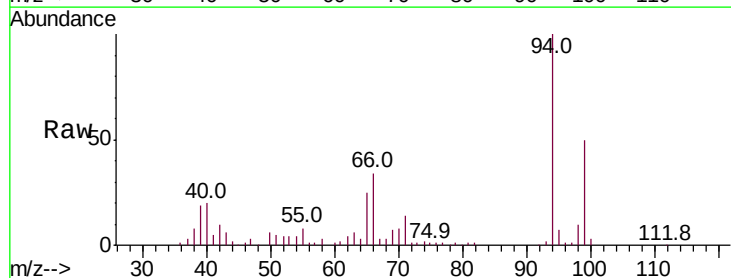
Delta R.T. -0.01 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

Tgt Ion: 94 Resp: 92656

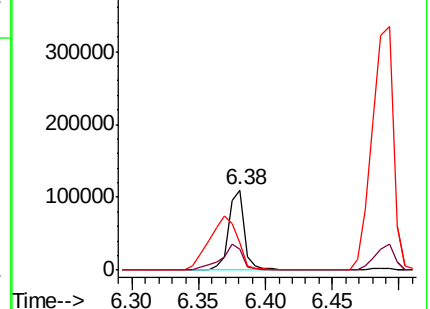
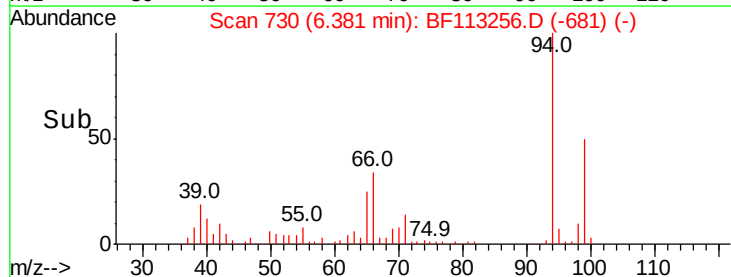
Ion	Ratio	Lower	Upper
94	100		
65	25.2	10.5	50.5
66	33.7	22.6	62.6

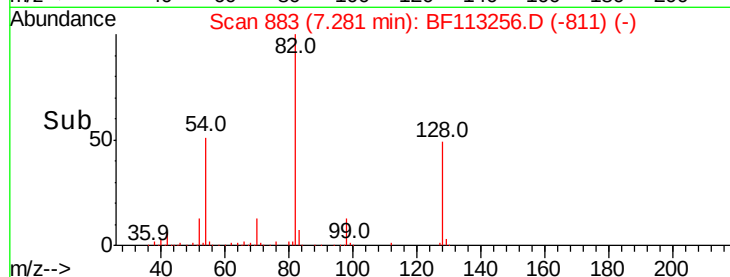
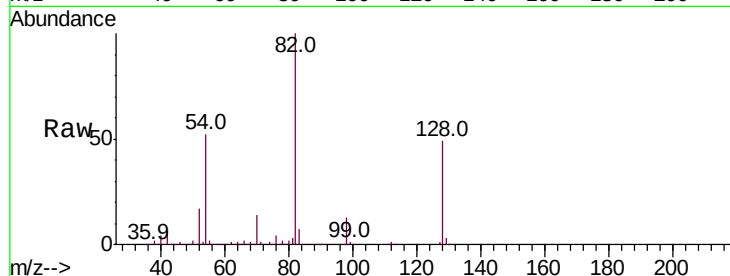
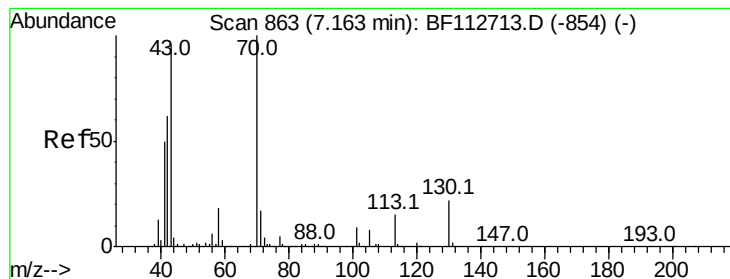


Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1





#19

n-Nitroso-di-n-propylamine

Concen: 15.653 ng

RT: 7.28 min Scan# 883

Delta R.T. 0.12 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 145865

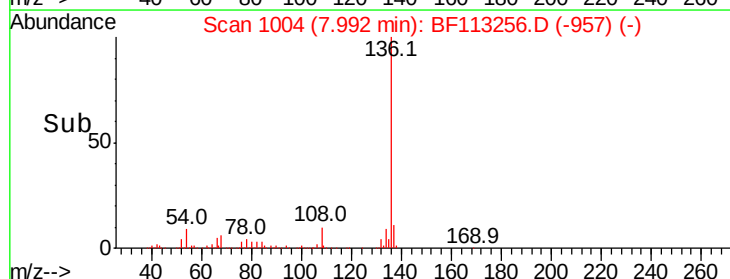
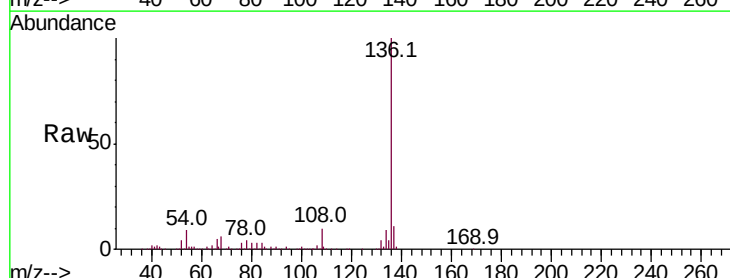
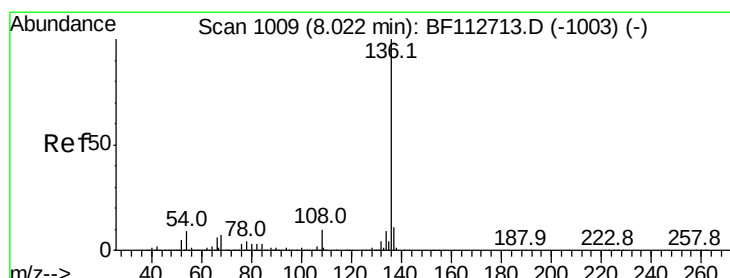
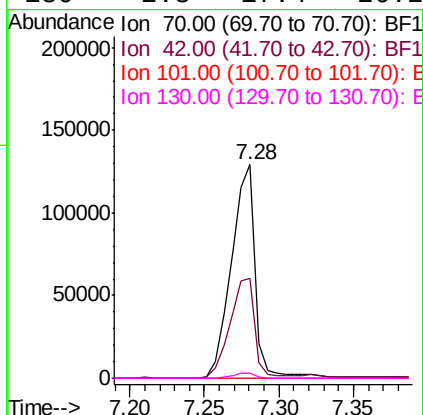
Ion Ratio Lower Upper

70 100

42 47.0 49.9 74.9#

101 0.0 7.4 11.2#

130 2.3 17.4 26.2#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.99 min Scan# 1004

Delta R.T. -0.02 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

Tgt Ion: 136 Resp: 730981

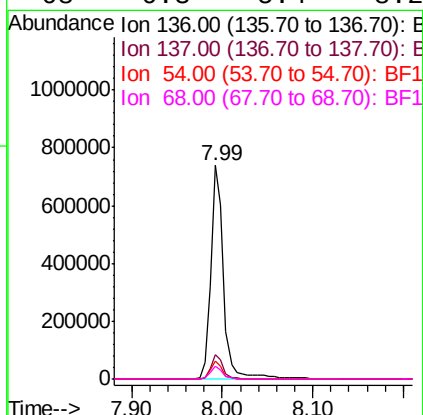
Ion Ratio Lower Upper

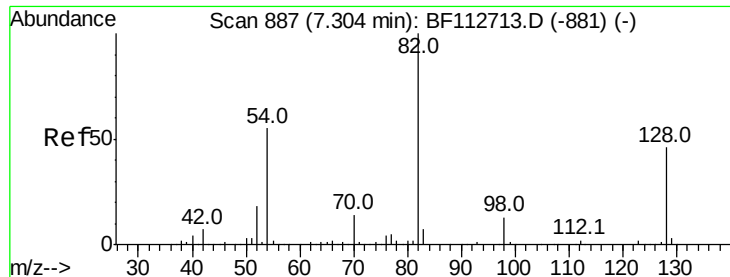
136 100

137 11.2 8.9 13.3

54 8.5 7.3 10.9

68 6.3 5.4 8.2

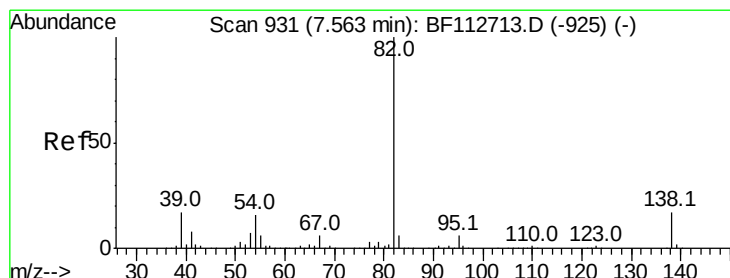
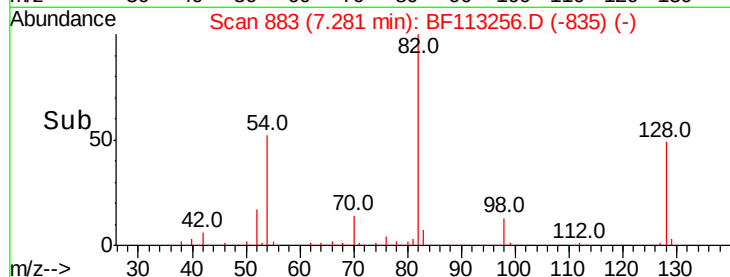
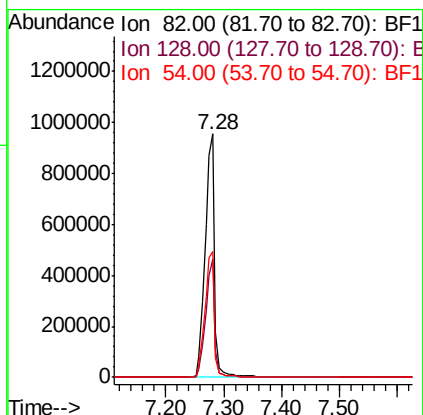
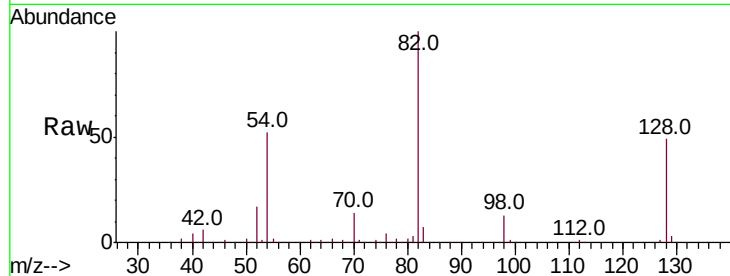




#23
 Nitrobenzene-d5
 Concen: 91.766 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.02 min
 Lab File: BF113256.D
 Acq: 23 Mar 2019 11:53

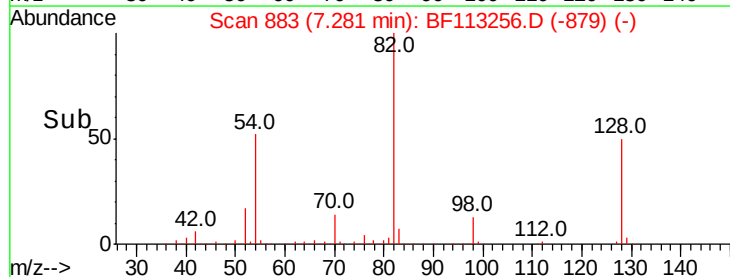
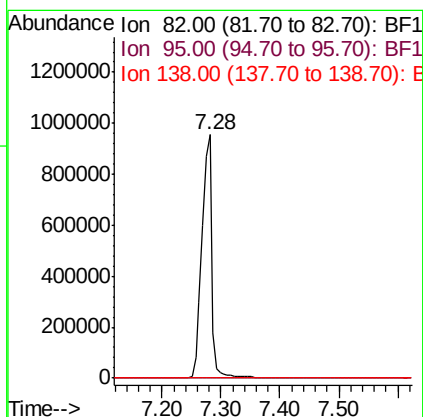
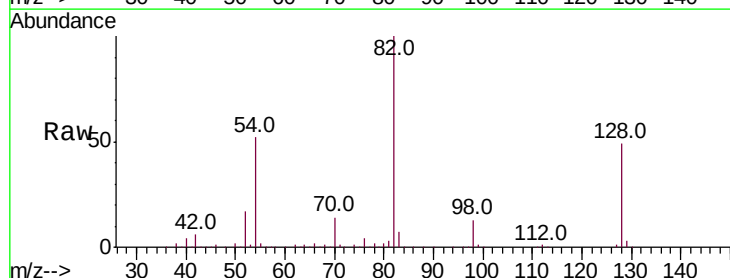
Instrument :
 BNA_F
 ClientSampleId :

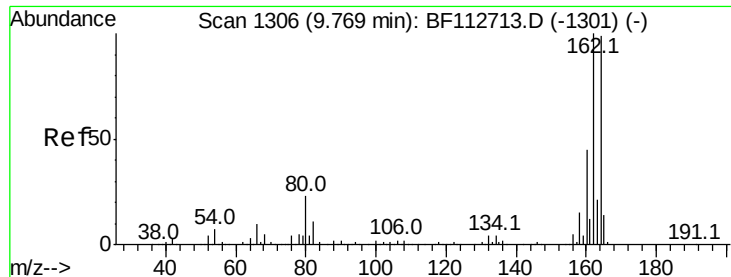
Tot Ion: 82 Resp: 1121009
 Ion Ratio Lower Upper
 82 100
 128 48.6 36.3 54.5
 54 51.9 43.7 65.5



#25
 Isophorone
 Concen: 42.595 ng
 RT: 7.28 min Scan# 883
 Delta R.T. -0.28 min
 Lab File: BF113256.D
 Acq: 23 Mar 2019 11:53

Tgt Ion: 82 Resp: 1121002
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.2 7.8#
 138 0.0 13.8 20.8#

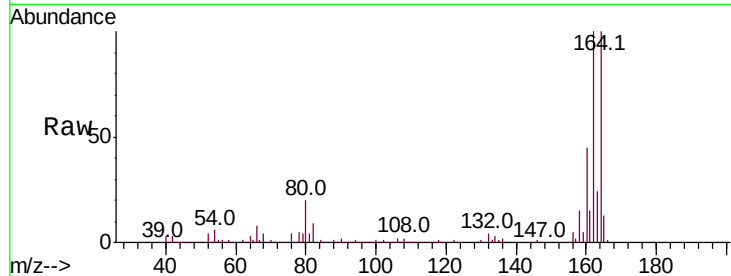




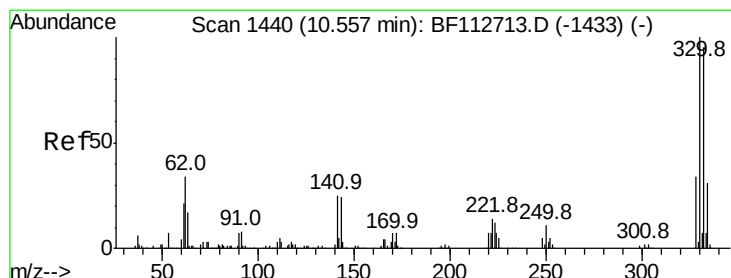
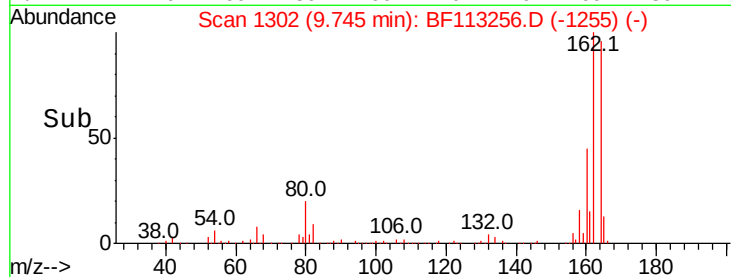
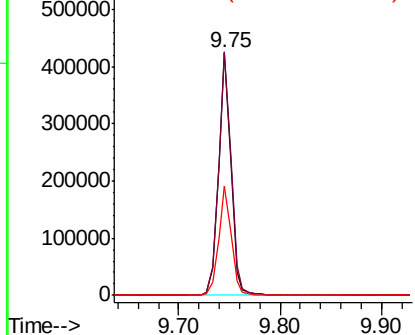
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.02 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 361940
Ion Ratio Lower Upper
164 100
162 100.2 80.6 120.8
160 45.2 36.0 54.0

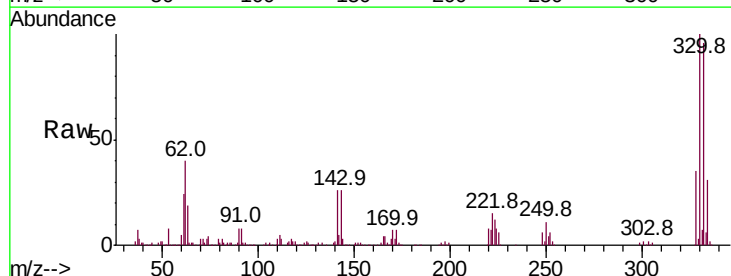


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

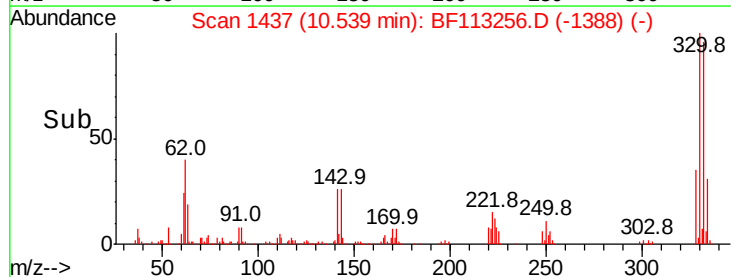
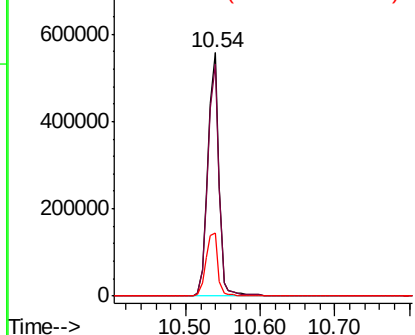


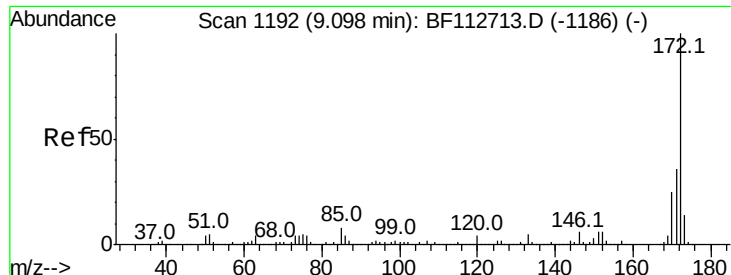
#42
2,4,6-Tribromophenol
Concen: 151.616 ng
RT: 10.54 min Scan# 1437
Delta R.T. -0.01 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

Tgt Ion:330 Resp: 582576
Ion Ratio Lower Upper
330 100
332 96.9 76.2 114.4
141 27.8 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



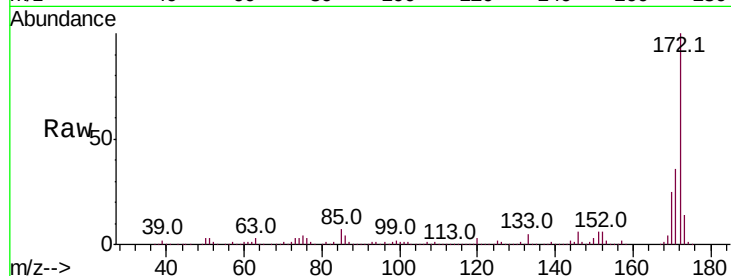


#45
 2-Fluorobiphenyl
 Concen: 82.730 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.02 min
 Lab File: BF113256.D
 Acq: 23 Mar 2019 11:53

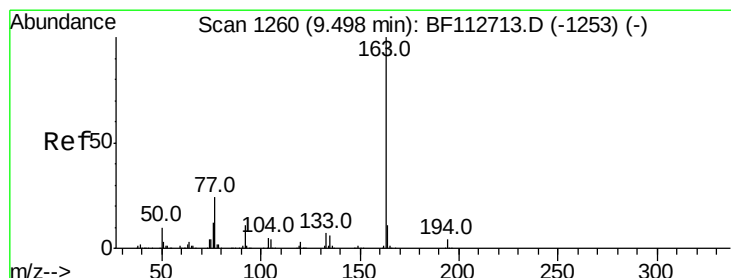
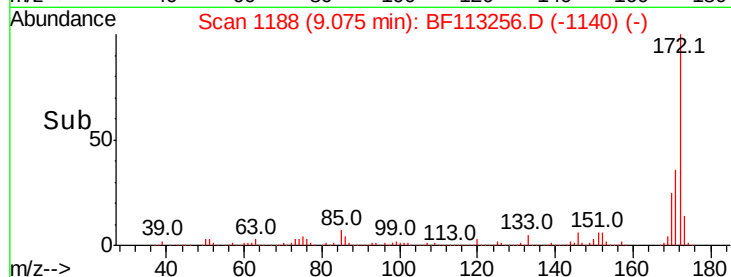
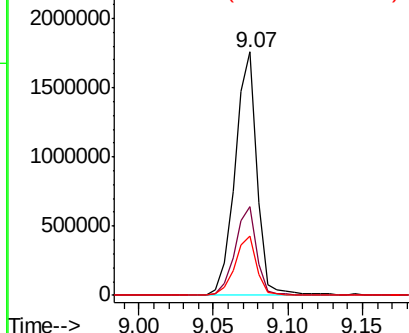
Instrument :
 BNA_F
 ClientSampled :

Tot Ion:172 Resp: 1820081

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.6	20.0	30.0



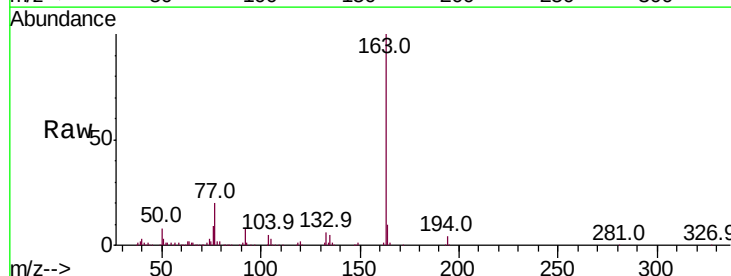
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



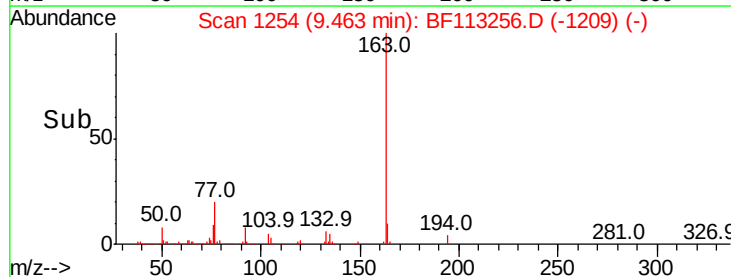
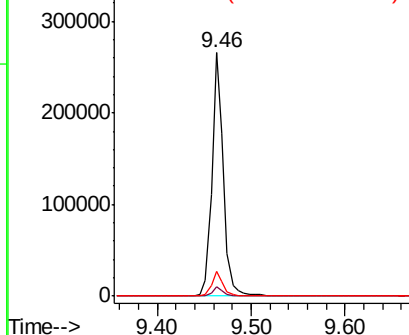
#50
 Dimethylphthalate
 Concen: 8.657 ng
 RT: 9.46 min Scan# 1254
 Delta R.T. -0.04 min
 Lab File: BF113256.D
 Acq: 23 Mar 2019 11:53

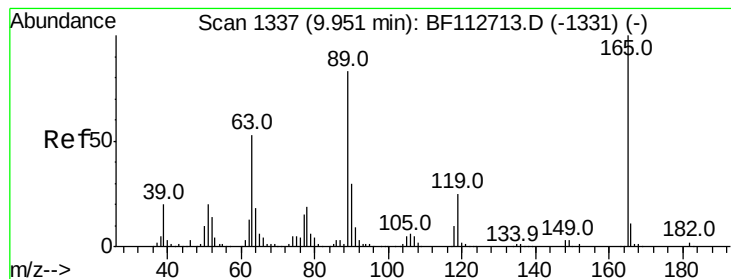
Tgt Ion:163 Resp: 231040

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.4
164	10.1	8.4	12.6



Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E





#57

2,4-Dinitrotoluene

Concen: 6.878 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.21 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 47511

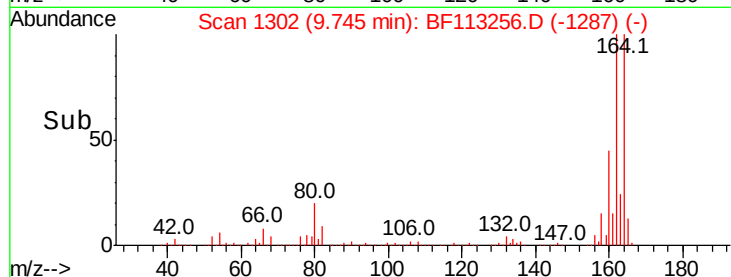
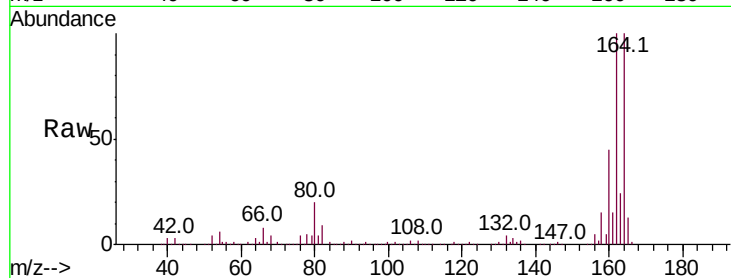
Ion Ratio Lower Upper

165 100

63 1.1 42.2 63.2#

89 1.6 66.2 99.4#

182 0.0 1.8 2.6#

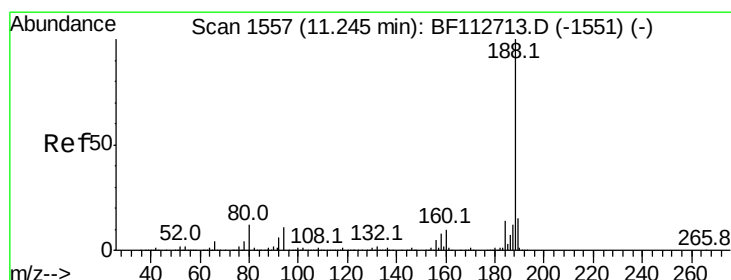
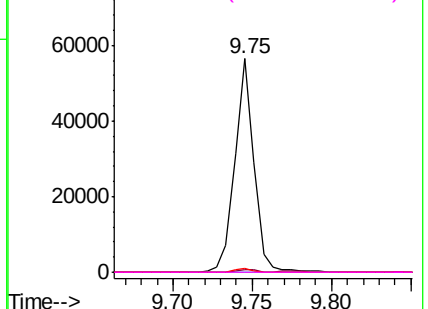


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.23 min Scan# 1554

Delta R.T. -0.02 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

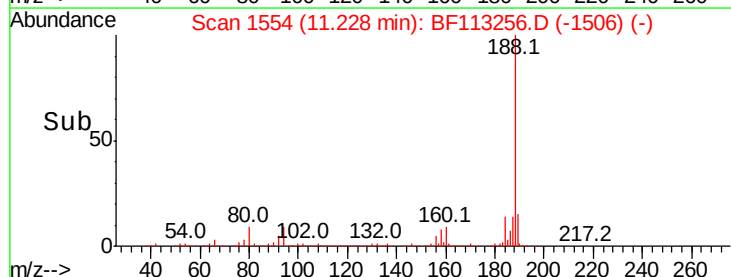
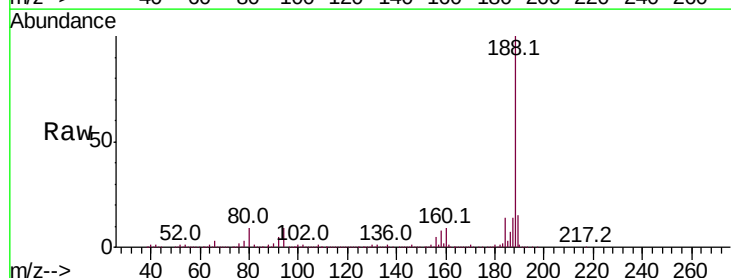
Tgt Ion:188 Resp: 774531

Ion Ratio Lower Upper

188 100

94 9.0 9.0 13.4

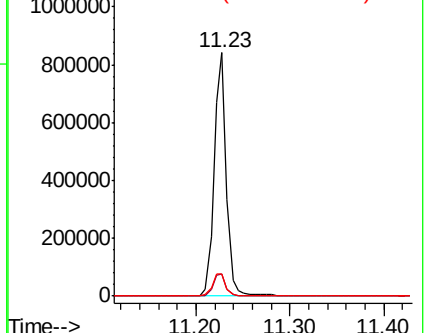
80 9.3 9.2 13.8

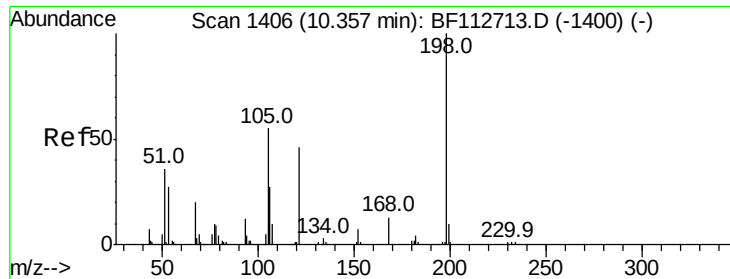


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

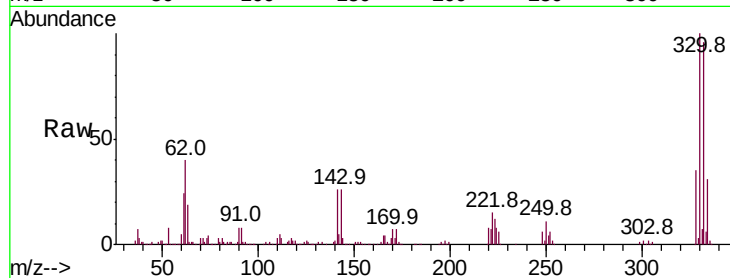




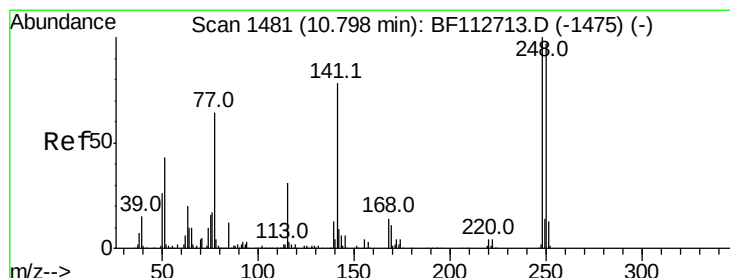
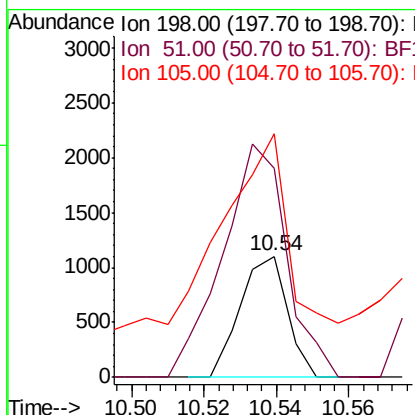
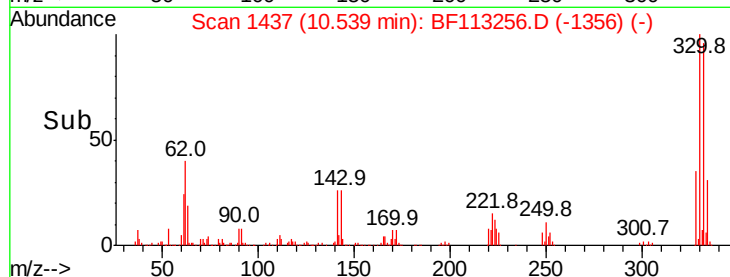
#65
4,6-Dinitro-2-methylphenol
Concen: 4.894 ng
RT: 10.54 min Scan# 1437
Delta R.T. 0.18 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

Instrument :
BNA_F
ClientSampled :

Tot Ion:198 Resp: 992
Ion Ratio Lower Upper
198 100
51 173.3 43.8 83.8#
105 201.7 36.5 76.5#

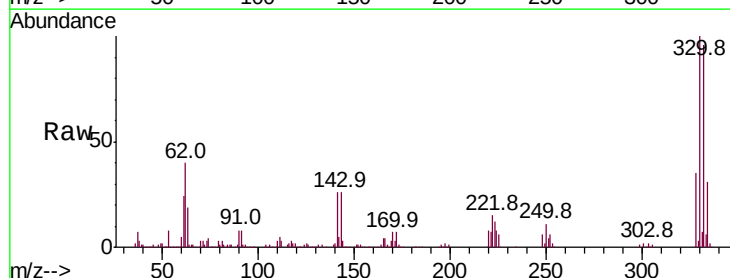


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF1
Ion 105.00 (104.70 to 105.70): E

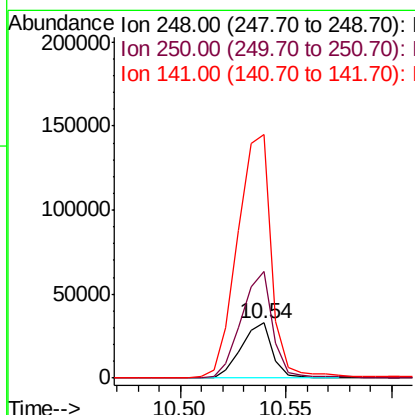
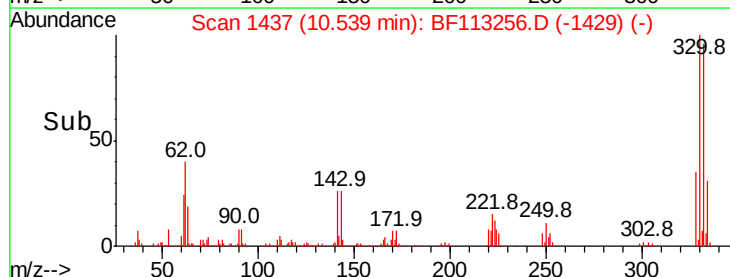


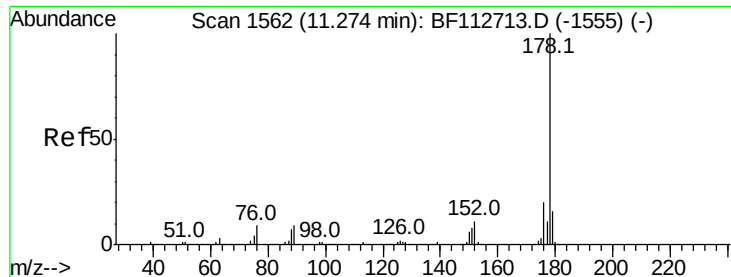
#67
4-Bromophenyl-phenylether
Concen: 4.125 ng
RT: 10.54 min Scan# 1437
Delta R.T. -0.25 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

Tgt Ion:248 Resp: 33655
Ion Ratio Lower Upper
248 100
250 192.7 77.5 116.3#
141 440.1 62.4 93.6#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 2.251 ng

RT: 11.25 min Scan# 1558

Delta R.T. -0.02 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

Instrument :

BNA_F

ClientSampleId :

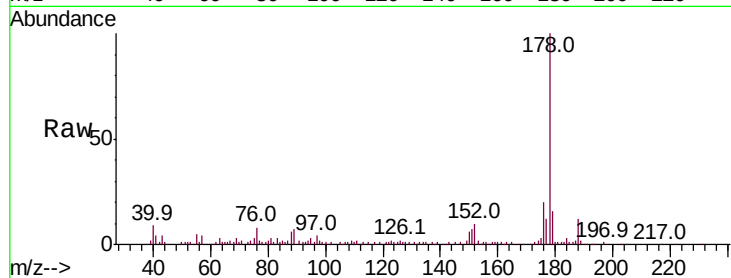
Tot Ion:178 Resp: 86739

Ion Ratio Lower Upper

178 100

176 19.8 16.3 24.5

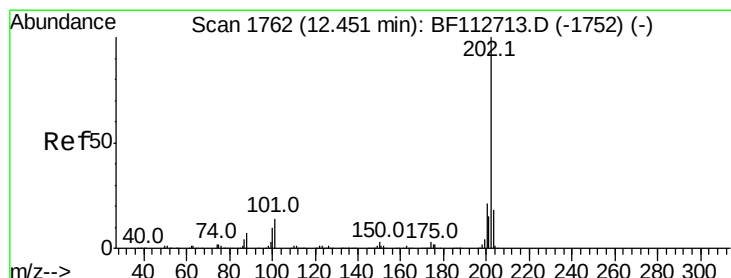
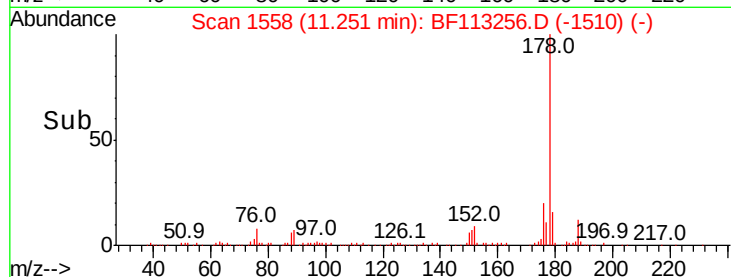
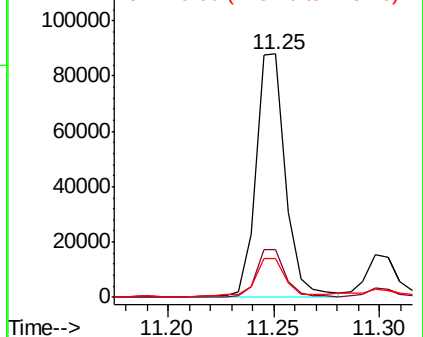
179 15.9 12.7 19.1



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



#75

Fluoranthene

Concen: 4.958 ng

RT: 12.43 min Scan# 1759

Delta R.T. -0.02 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

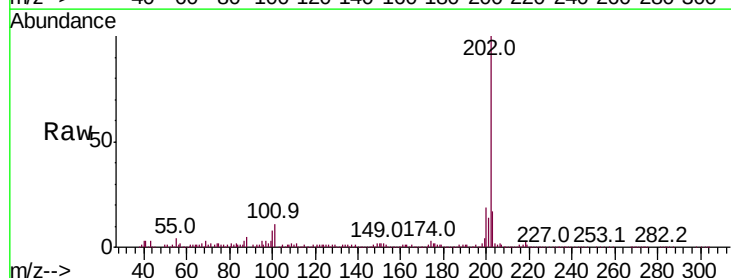
Tgt Ion:202 Resp: 204703

Ion Ratio Lower Upper

202 100

101 11.0 0.0 33.8

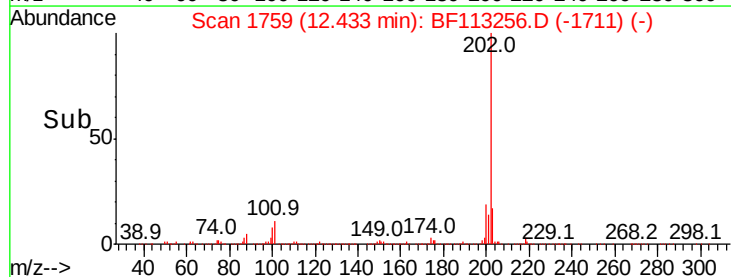
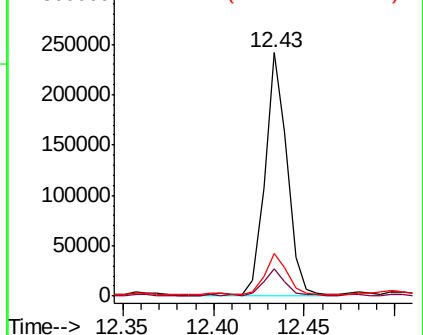
203 17.4 0.0 38.4

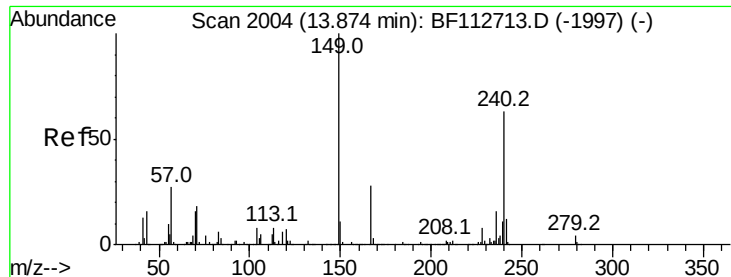


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.86 min Scan# 2001

Delta R.T. -0.01 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

Instrument :

BNA_F

ClientSampleId :

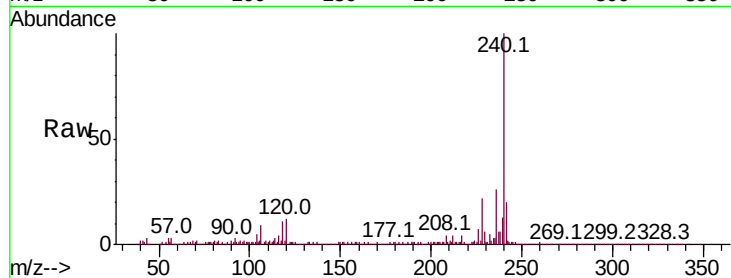
Tot Ion:240 Resp: 458269

Ion Ratio Lower Upper

240 100

120 12.1 8.9 13.3

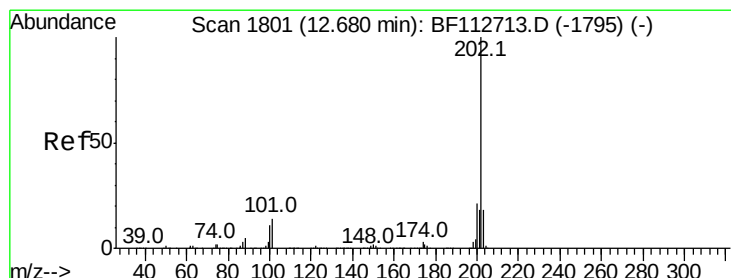
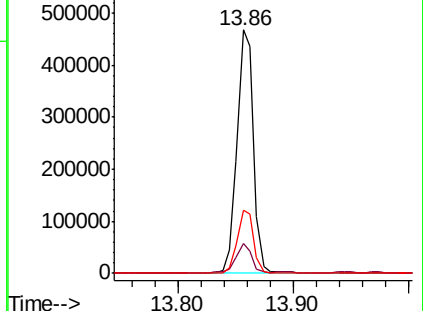
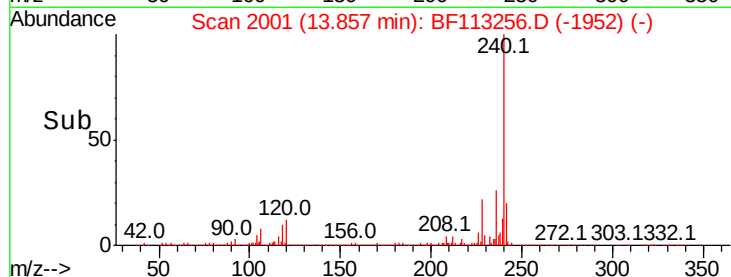
236 26.1 20.7 31.1



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

Pyrene

Concen: 7.537 ng

RT: 12.66 min Scan# 1798

Delta R.T. -0.01 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

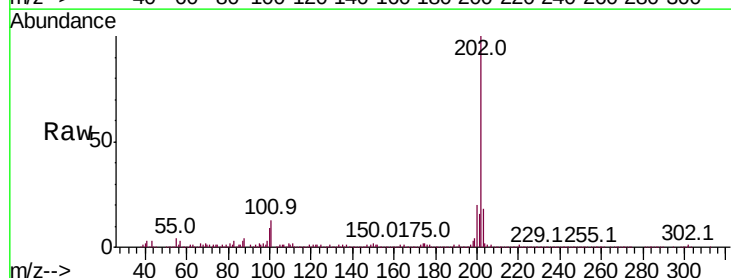
Tgt Ion:202 Resp: 291197

Ion Ratio Lower Upper

202 100

200 20.0 17.0 25.4

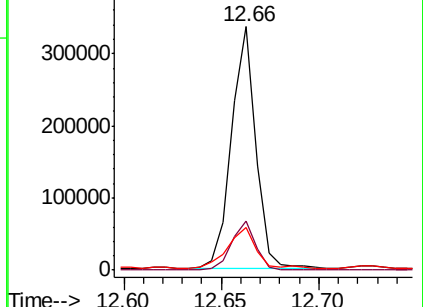
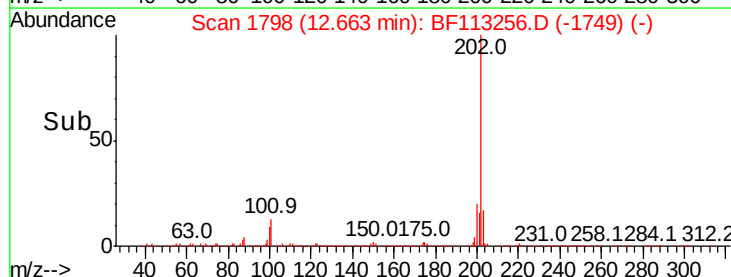
203 17.7 14.4 21.6

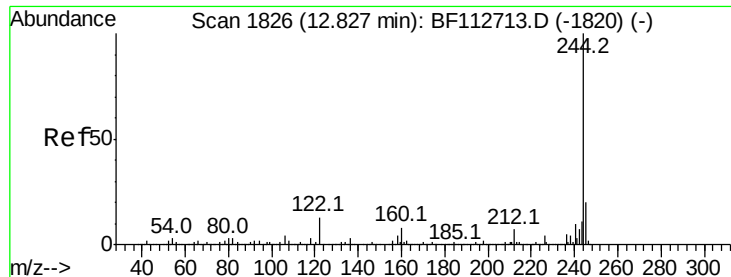


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 82.310 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

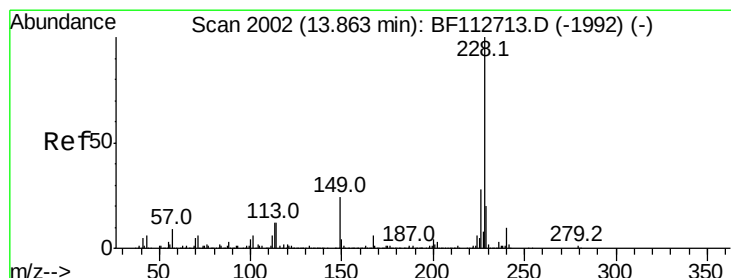
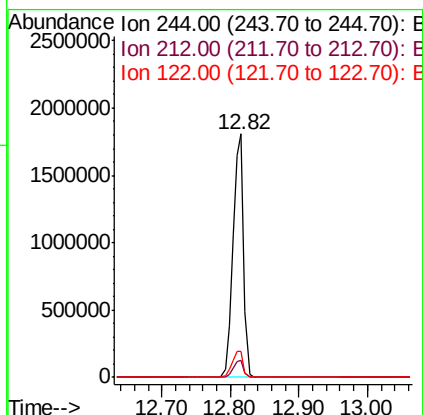
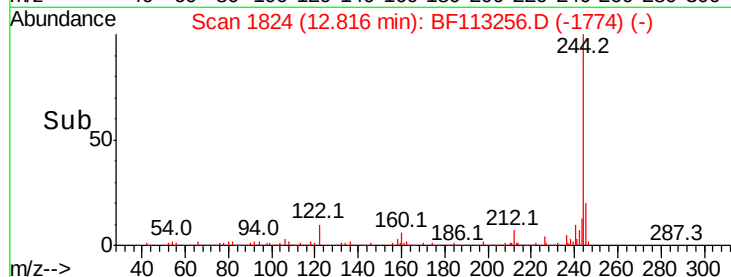
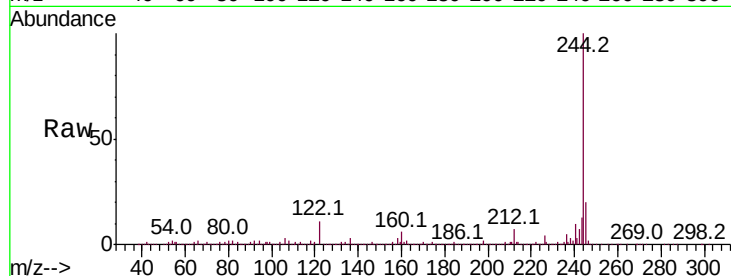
Instrument :

BNA_F

ClientSampleId :

Tot Ion:244 Resp: 1945842

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	10.5	10.5	15.7



#81

Benzo(a)anthracene

Concen: 8.248 ng

RT: 13.85 min Scan# 2000

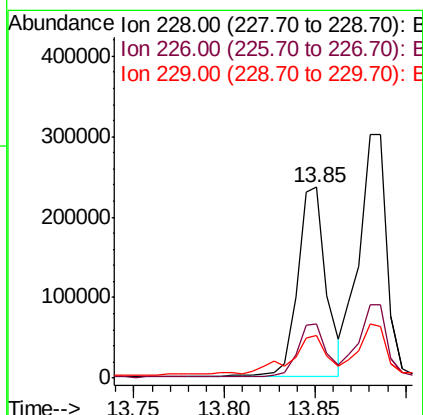
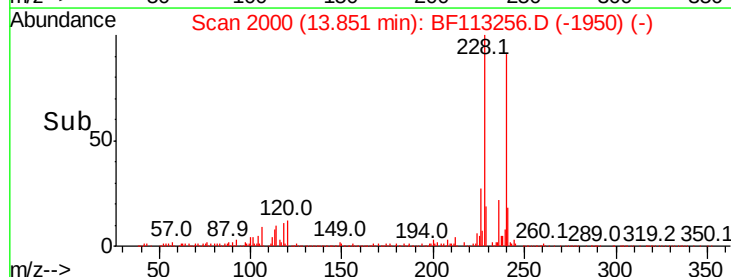
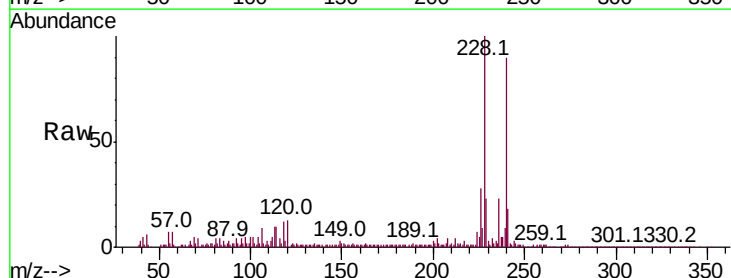
Delta R.T. -0.01 min

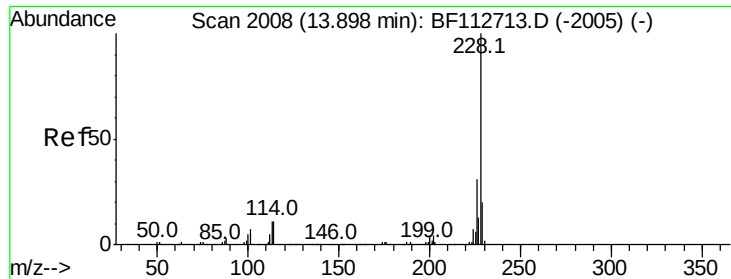
Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

Tgt Ion:228 Resp: 261956

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.2	33.4
229	22.5	16.0	24.0

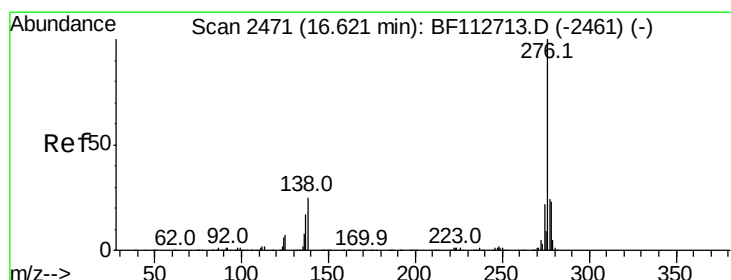
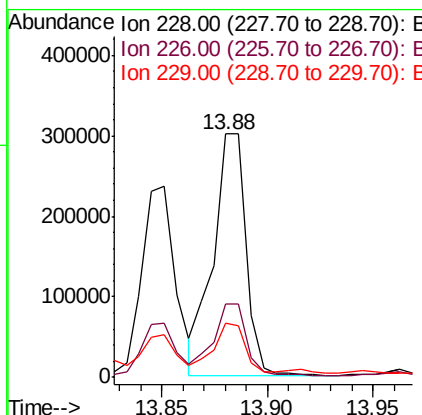
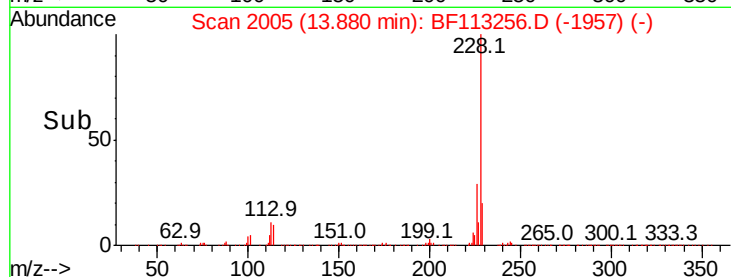
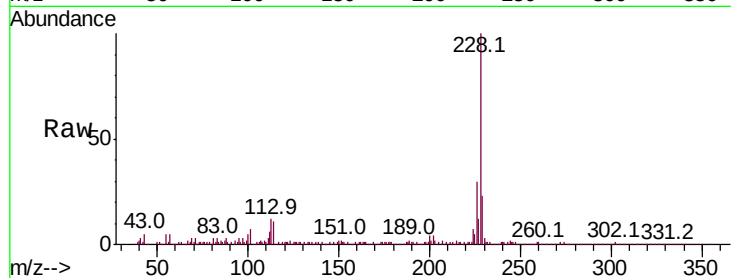




#83
 Chrysene
 Concen: 10.458 ng
 RT: 13.88 min Scan# 2005
 Delta R.T. -0.02 min
 Lab File: BF113256.D
 Acq: 23 Mar 2019 11:53

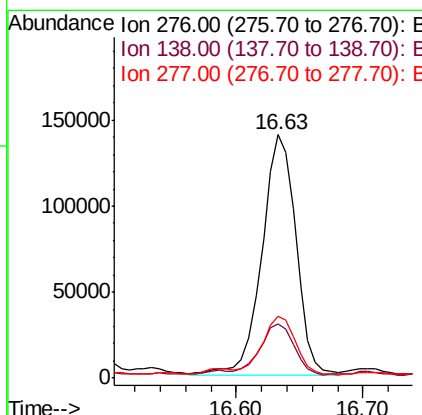
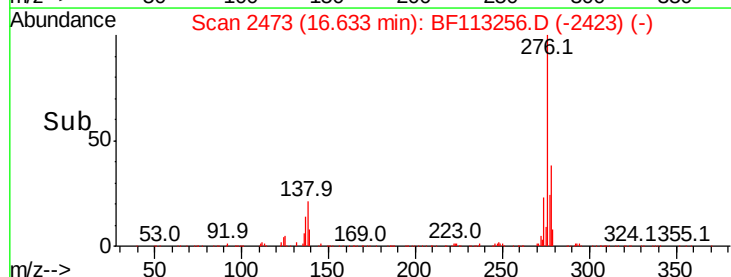
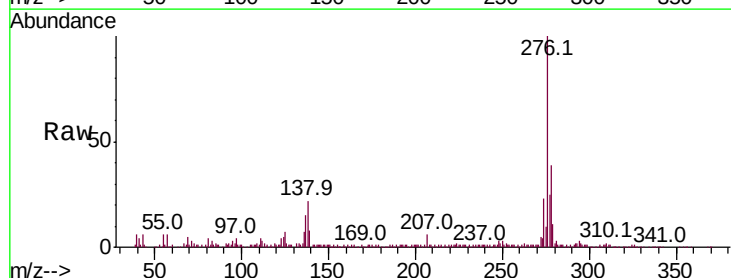
Instrument :
 BNA_F
 ClientSampleId :

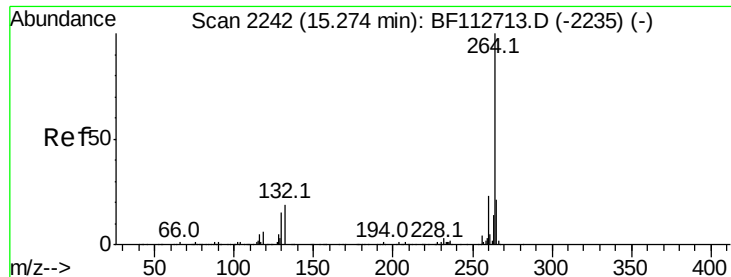
Tot Ion:228	Resp:	325361
Ion	Ratio	Lower Upper
228	100	
226	30.1	24.9 37.3
229	22.5	16.3 24.5



#86
 Indeno(1,2,3-cd)pyrene
 Concen: 9.830 ng
 RT: 16.63 min Scan# 2473
 Delta R.T. -0.01 min
 Lab File: BF113256.D
 Acq: 23 Mar 2019 11:53

Tgt Ion:276	Resp:	260727
Ion	Ratio	Lower Upper
276	100	
138	22.1	23.2 34.8#
277	23.8	19.9 29.9





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.27 min Scan# 2241

Delta R.T. -0.01 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

Instrument :

BNA_F

ClientSampleId :

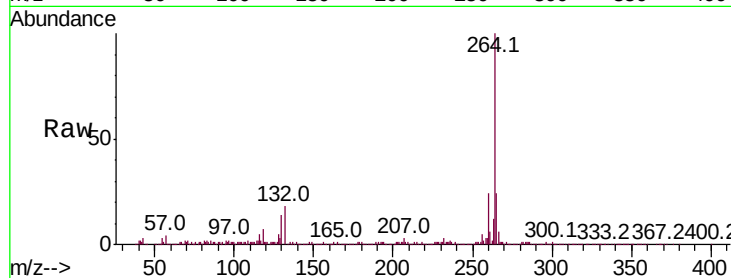
Tot Ion:264 Resp: 463997

Ion Ratio Lower Upper

264 100

260 24.1 18.7 28.1

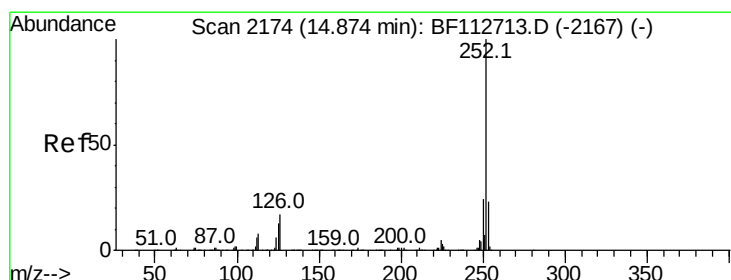
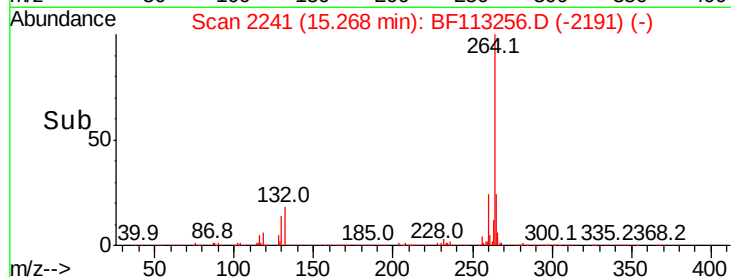
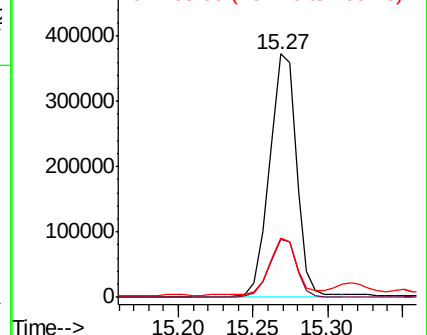
265 24.2 17.2 25.8



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: 11.833 ng

RT: 14.87 min Scan# 2173

Delta R.T. -0.01 min

Lab File: BF113256.D

Acq: 23 Mar 2019 11:53

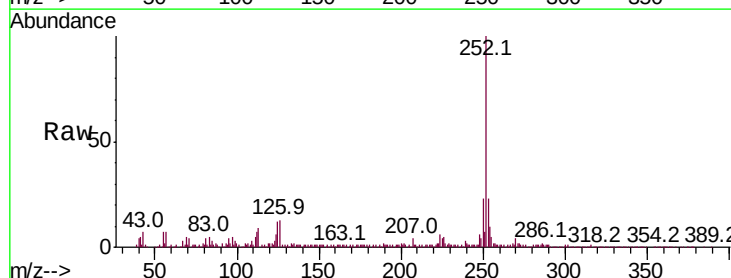
Tgt Ion:252 Resp: 355147

Ion Ratio Lower Upper

252 100

253 22.9 18.0 27.0

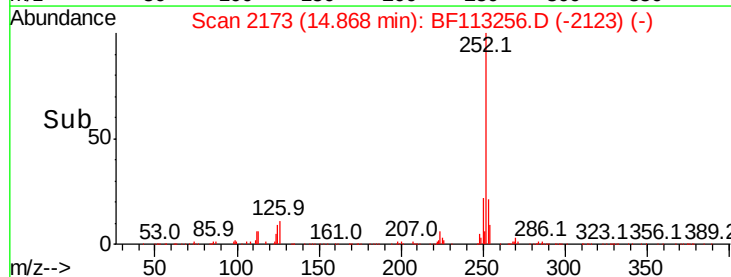
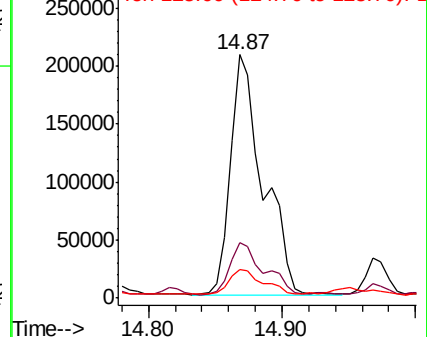
125 11.7 10.2 15.2

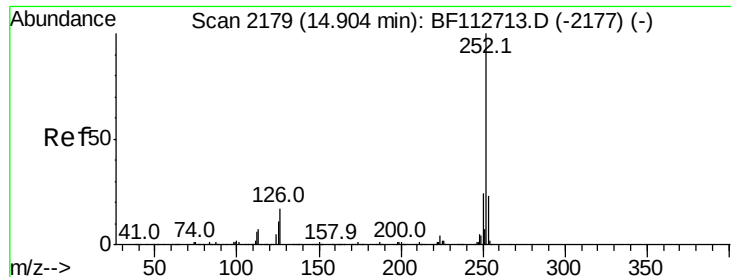


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

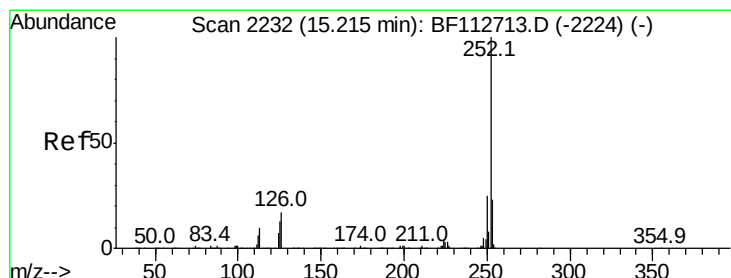
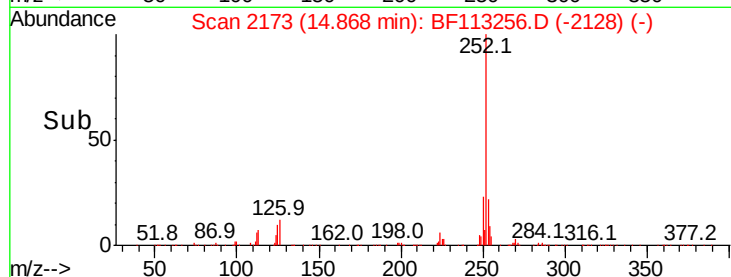
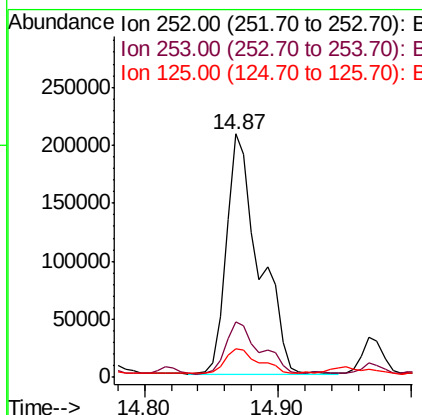
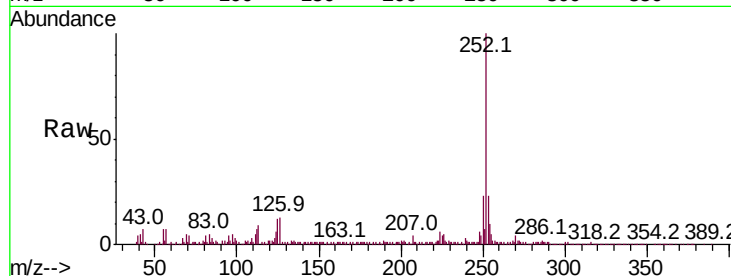




#89
Benzo(k)fluoranthene
Concen: 13.064 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.04 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

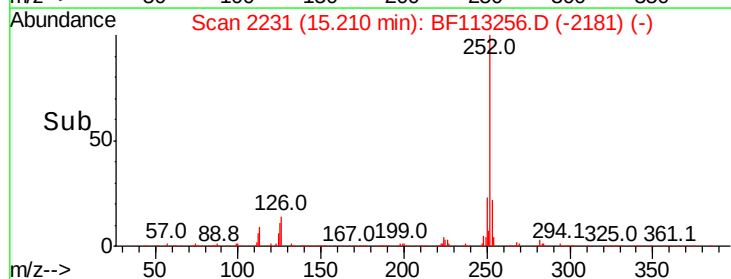
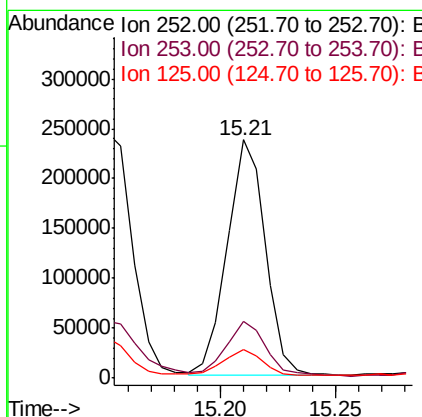
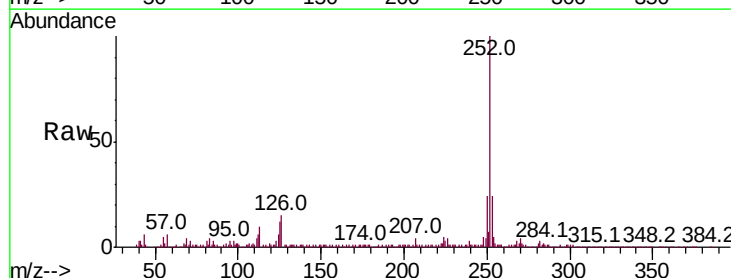
Instrument :
BNA_F
ClientSampleId :

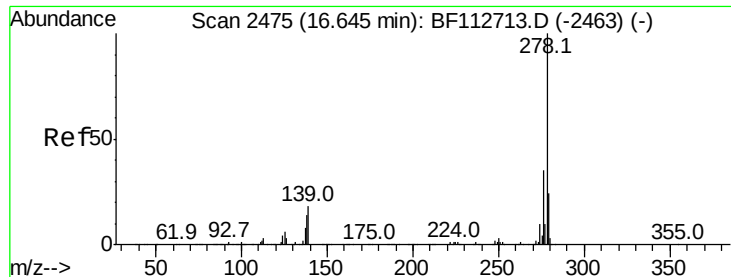
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	11.7	9.8	14.6



#90
Benzo(a)pyrene
Concen: 10.201 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.01 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.0	27.0
125	12.1	10.7	16.1

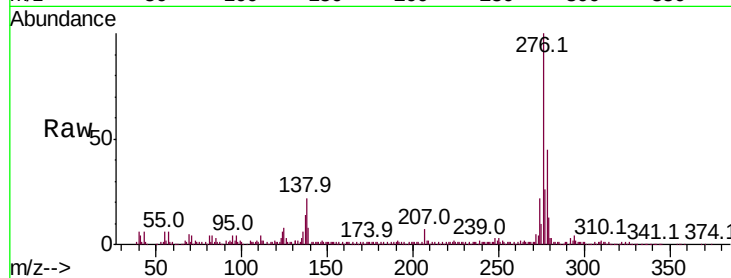




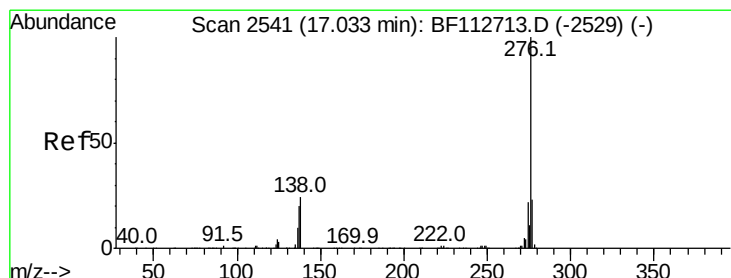
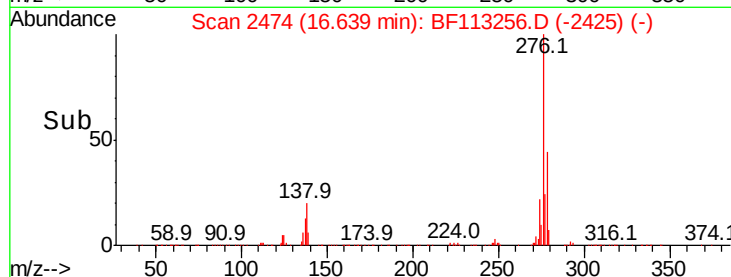
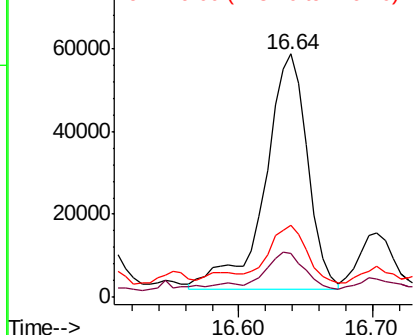
#91
Dibenzo(a,h)anthracene
Concen: 5.576 ng
RT: 16.64 min Scan# 2474
Delta R.T. -0.01 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.2	14.3	21.5
279	29.5	19.4	29.0#

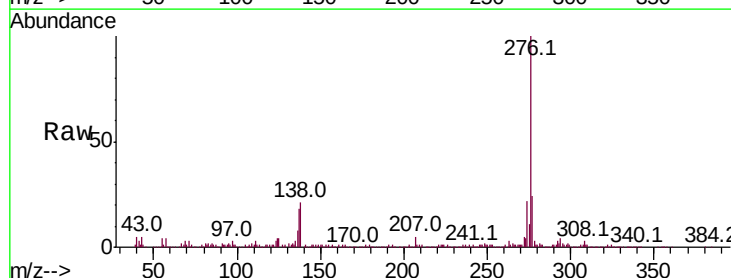


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 15.156 ng
RT: 17.04 min Scan# 2543
Delta R.T. -0.00 min
Lab File: BF113256.D
Acq: 23 Mar 2019 11:53

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	27.8
138	20.8	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

