

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF030419\
 Data File : BF112828.D
 Acq On : 4 Mar 2019 17:01
 Operator : JU/SJ
 Sample : K1712-05 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Z-4-2-AB

Quant Time: Mar 05 00:37:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 01 15:40:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	147594	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	518255	20.00	ng	0.00
39) Acenaphthene-d10	9.77	164	219180	20.00	ng	0.00
64) Phenanthrene-d10	11.26	188	442301	20.00	ng	0.01
76) Chrysene-d12	13.89	240	439855	20.00	ng	0.01
87) Perylene-d12	15.30	264	321397	20.00	ng	0.02

System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	481150	50.71	ng	0.00
7) Phenol-d6	6.37	99	611146	51.28	ng	0.00
23) Nitrobenzene-d5	7.30	82	343973	39.72	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	145980	62.74	ng	0.00
45) 2-Fluorobiphenyl	9.10	172	609263	39.91	ng	0.00
79) Terphenyl-d14	12.83	244	678399	29.90	ng	0.00

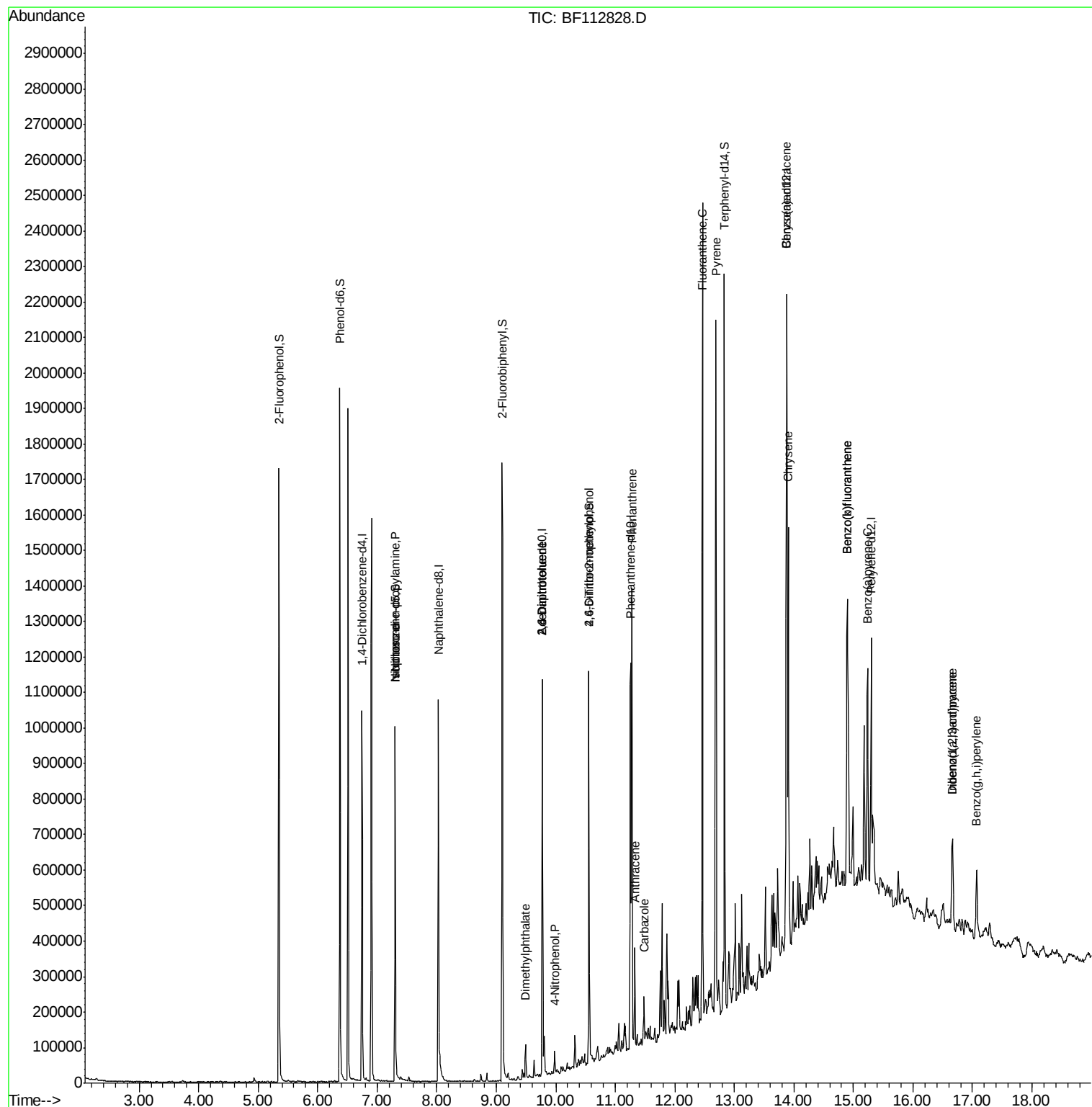
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.30	70	45271	5.997	ng	# 79
25) Isophorone	7.30	82	338549	18.144	ng	# 66
50) Dimethylphthalate	9.49	163	39624	2.452	ng	99
51) 2,6-Dinitrotoluene	9.77	165	28068	8.340	ng	# 18
56) 4-Nitrophenol	9.98	139	7936	2.381	ng	# 16
57) 2,4-Dinitrotoluene	9.77	165	28068	6.710	ng	# 18
65) 4,6-Dinitro-2-methylphenol	10.56	198	234	4.729	ng	# 1
71) Phenanthrene	11.28	178	507989	23.084	ng	98
72) Anthracene	11.33	178	108103	4.693	ng	97
73) Carbazole	11.48	167	51531	2.293	ng	99
75) Fluoranthene	12.46	202	914005	38.767	ng	97
78) Pyrene	12.69	202	858458	23.151	ng	99
81) Benzo(a)anthracene	13.87	228	469417	15.398	ng	99
83) Chrysene	13.91	228	418265	14.007	ng	96
86) Indeno(1,2,3-cd)pyrene	16.66	276	173150	6.802	ng	# 93
88) Benzo(b)fluoranthene	14.90	252	601123	28.916	ng	98
89) Benzo(k)fluoranthene	14.90	252	601123	31.923	ng	99
90) Benzo(a)pyrene	15.24	252	294569	16.020	ng	98
91) Dibenzo(a,h)anthracene	16.67	278	44409	2.830	ng	# 87
92) Benzo(g,h,i)perylene	17.07	276	165569	10.508	ng	96

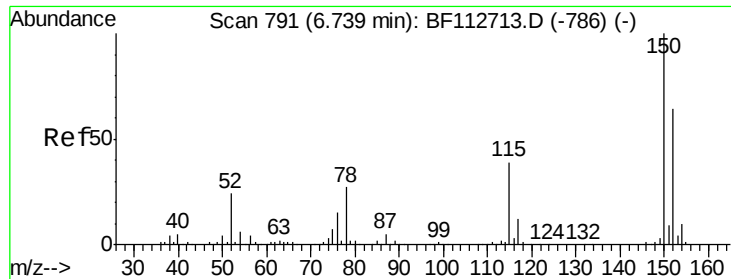
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
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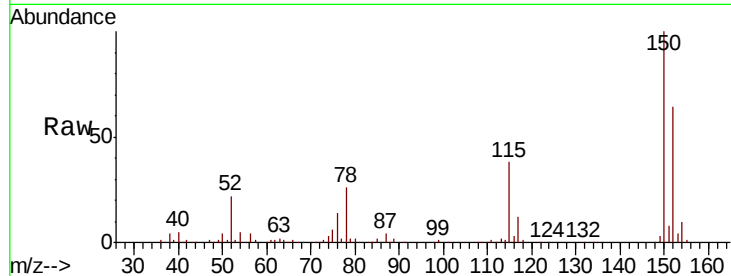


#1

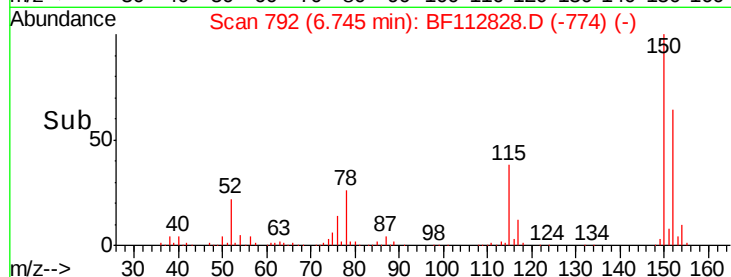
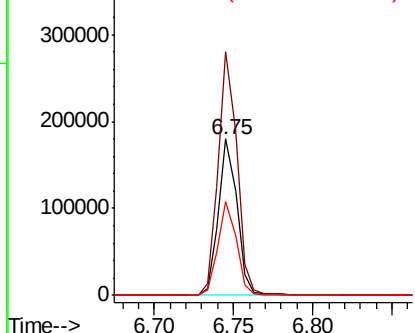
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.75 min Scan# 792
Delta R.T. 0.01 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Instrument :
BNA_F
ClientSampleId :
Z-4-2-AB

Tgt Ion:152 Resp: 147594
Ion Ratio Lower Upper
152 100
150 155.8 124.2 186.2
115 59.8 48.2 72.4



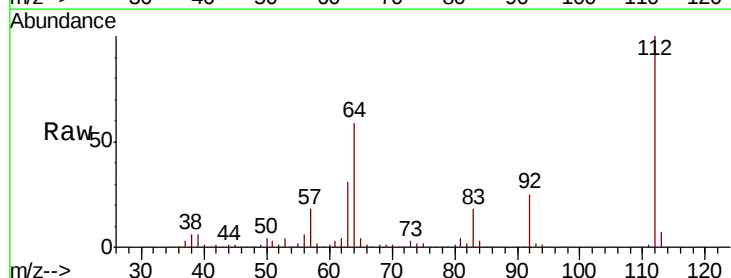
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



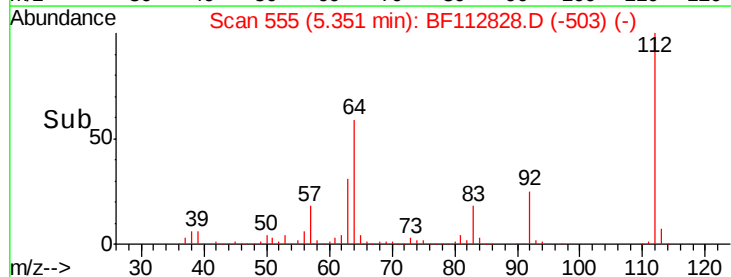
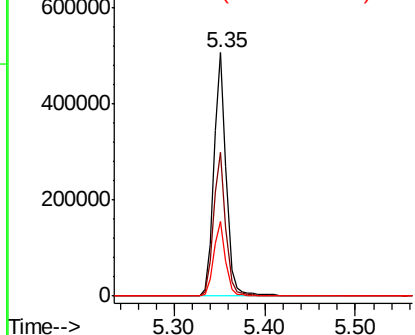
#5

2-Fluorophenol
Concen: 50.710 ng
RT: 5.35 min Scan# 555
Delta R.T. 0.01 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Tgt Ion:112 Resp: 481150
Ion Ratio Lower Upper
112 100
64 59.0 47.6 71.4
63 30.8 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: 51.276 ng

RT: 6.37 min Scan# 729

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Instrument :

BNA_F

ClientSampleId :

Z-4-2-AB

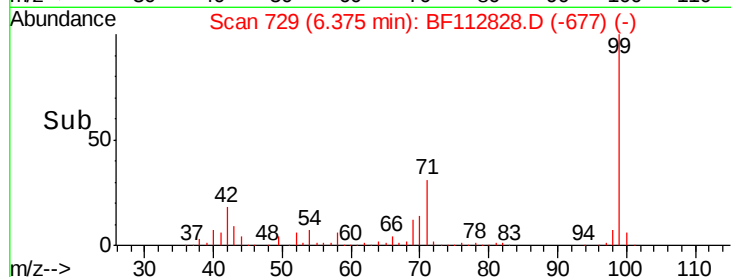
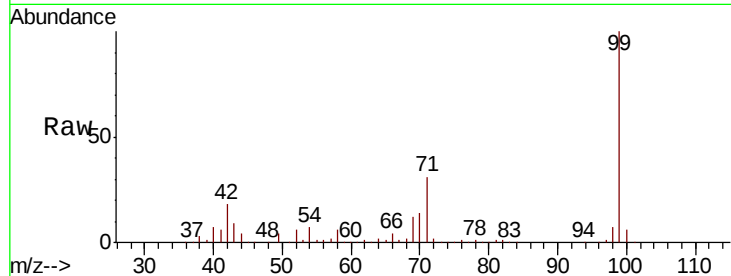
Tgt Ion: 99 Resp: 611146

Ion Ratio Lower Upper

99 100

42 18.4 16.3 24.5

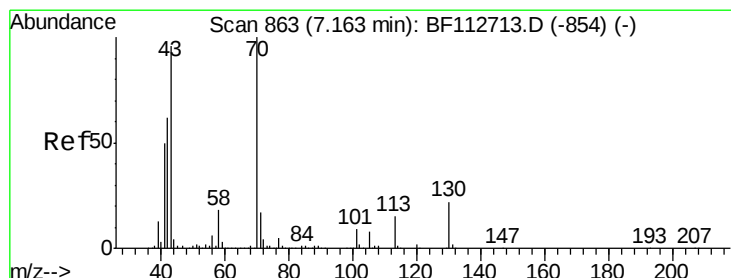
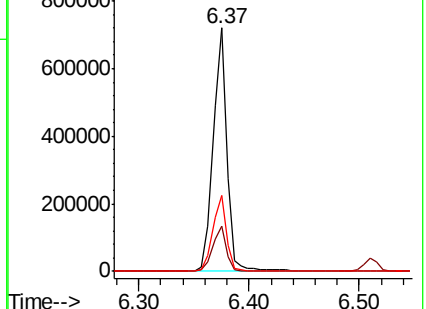
71 31.1 26.2 39.4



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: 5.997 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.14 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Tgt Ion: 70 Resp: 45271

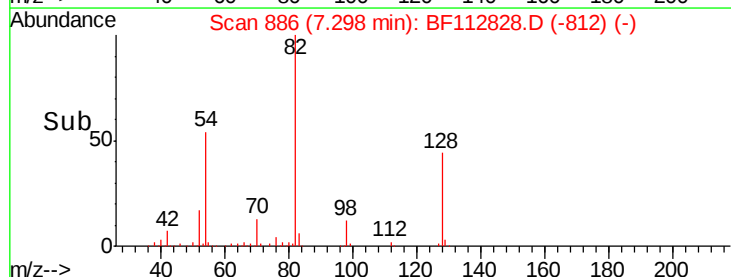
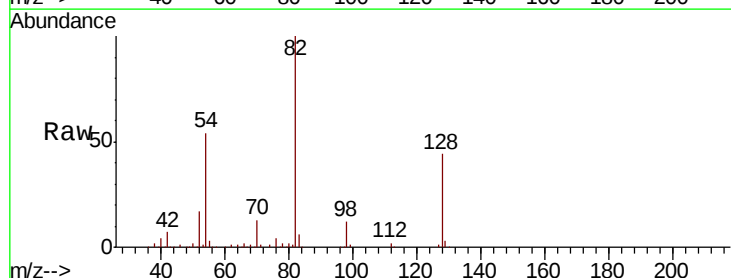
Ion Ratio Lower Upper

70 100

42 52.3 49.9 74.9

101 0.0 7.4 11.2#

130 2.2 17.4 26.2#

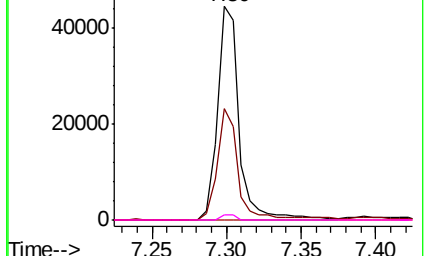


Abundance Ion 70.00 (69.70 to 70.70): BF1

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

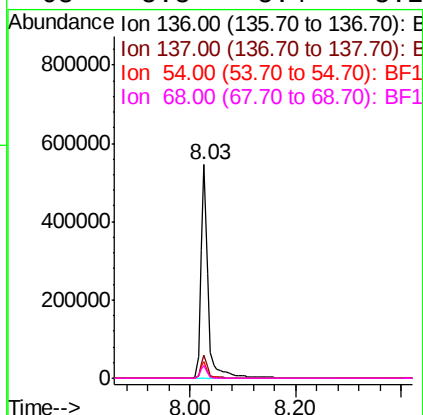
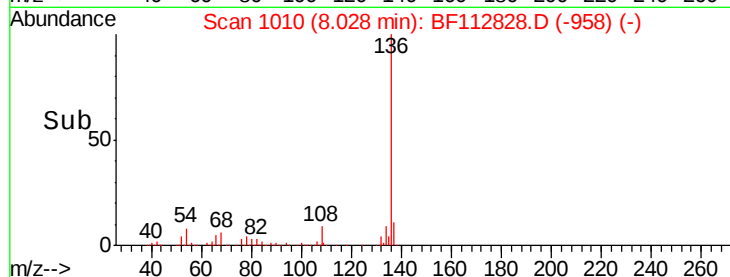
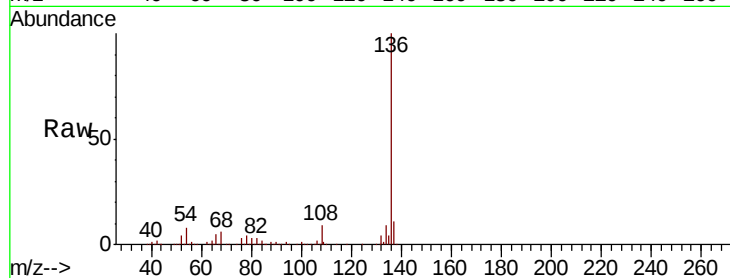




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.03 min Scan# 1010
Delta R.T. 0.01 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

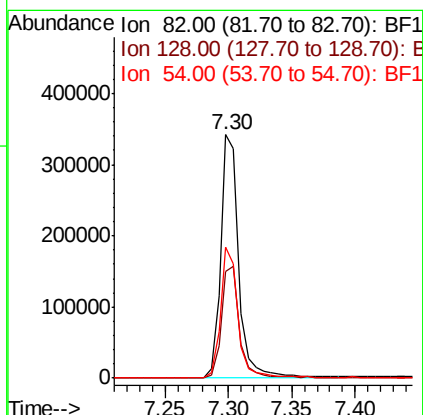
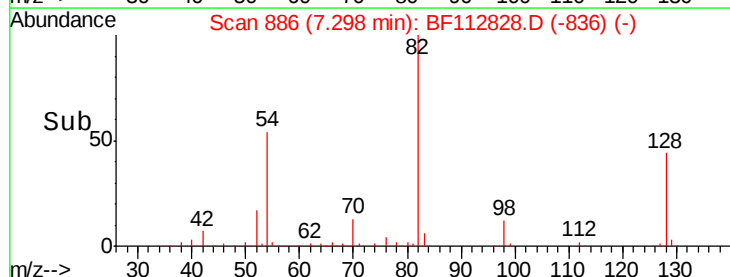
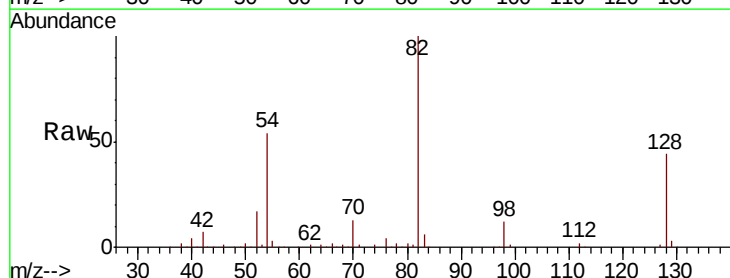
Instrument :
BNA_F
ClientSampleId :
Z-4-2-AB

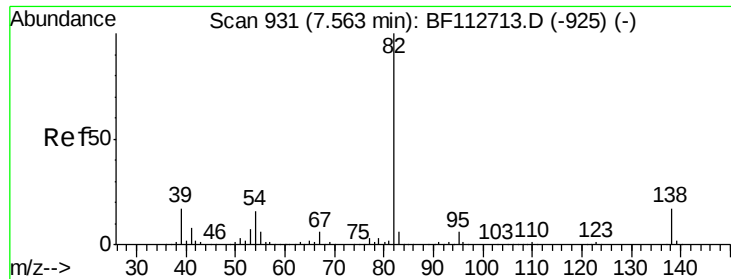
Tgt Ion:	136	Resp:	518255
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	8.0	7.3	10.9
68	5.8	5.4	8.2



#23
Nitrobenzene-d5
Concen: 39.715 ng
RT: 7.30 min Scan# 886
Delta R.T. -0.01 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Tgt Ion:	82	Resp:	343973
Ion	Ratio	Lower	Upper
82	100		
128	43.8	36.3	54.5
54	54.0	43.7	65.5





#25

Isophorone

Concen: 18.144 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.26 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Instrument :

BNA_F

ClientSampleId :

Z-4-2-AB

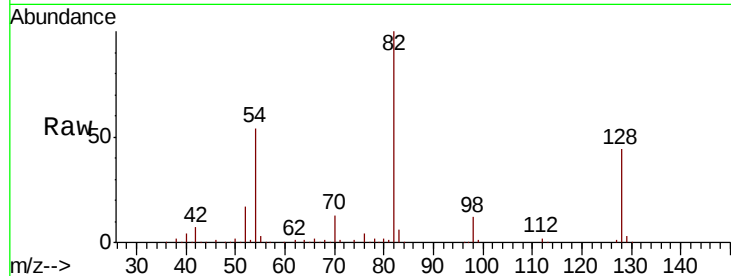
Tgt Ion: 82 Resp: 338549

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

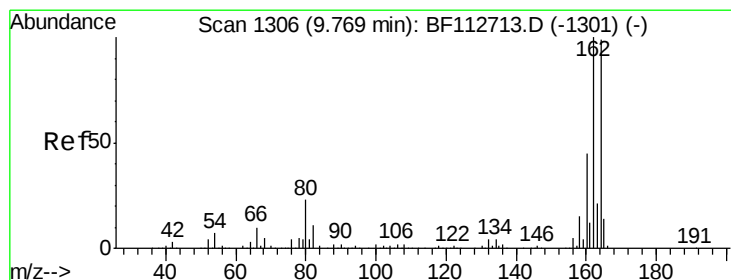
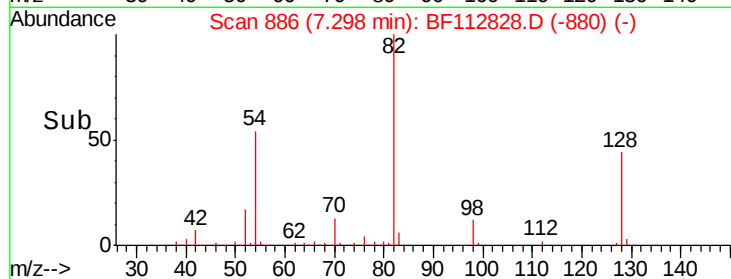
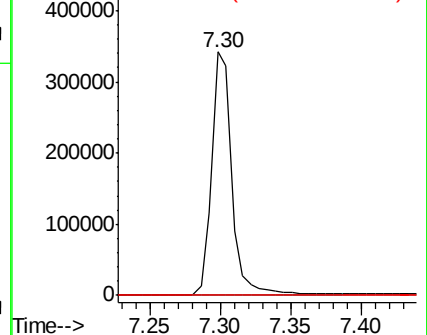
138 0.0 13.8 20.8#



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: 9.77 min Scan# 1307

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

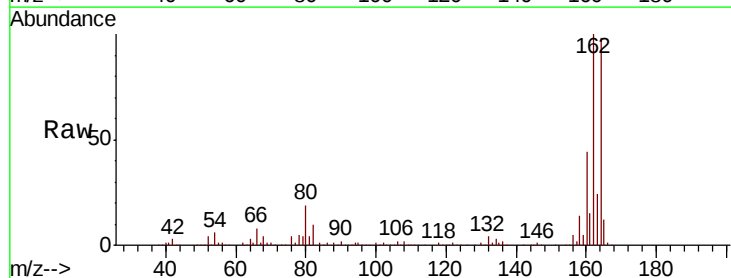
Tgt Ion: 164 Resp: 219180

Ion Ratio Lower Upper

164 100

162 101.6 80.6 120.8

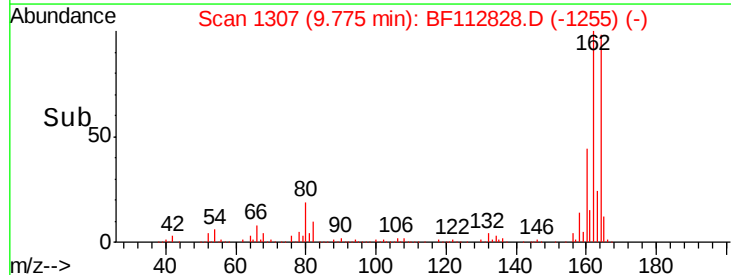
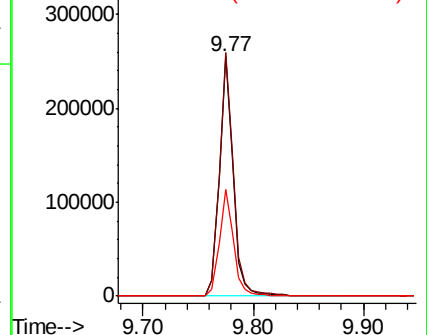
160 44.3 36.0 54.0



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: 62.737 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.00 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Instrument :

BNA_F

ClientSampleId :

Z-4-2-AB

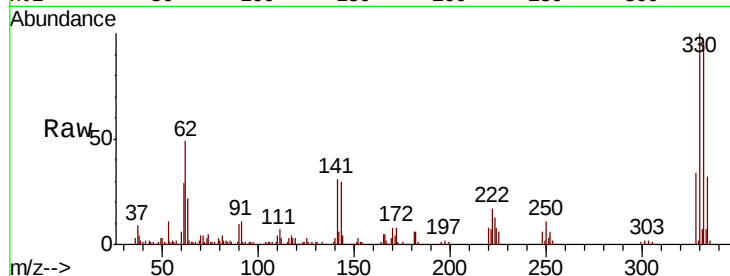
Tgt Ion:330 Resp: 145980

Ion Ratio Lower Upper

330 100

332 95.0 76.2 114.4

141 30.2 27.0 40.6

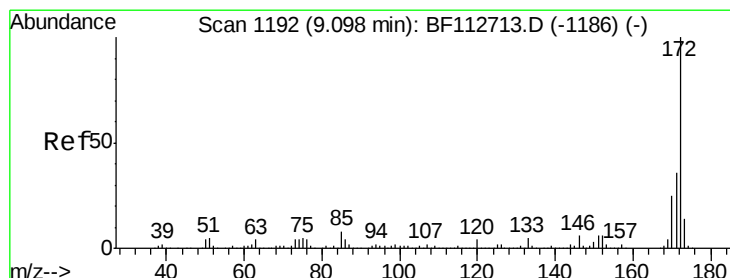
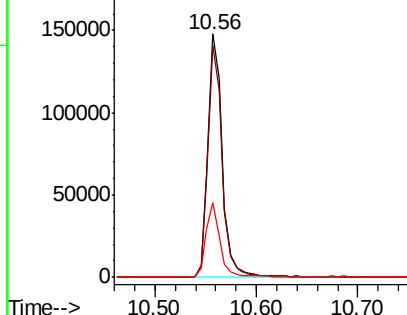
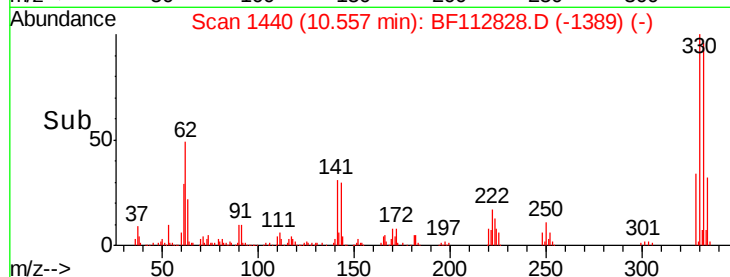


Abundance

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: 39.914 ng

RT: 9.10 min Scan# 1192

Delta R.T. 0.00 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

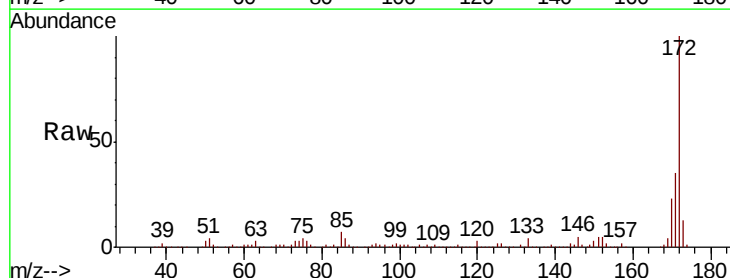
Tgt Ion:172 Resp: 609263

Ion Ratio Lower Upper

172 100

171 34.6 29.0 43.4

170 23.4 20.0 30.0

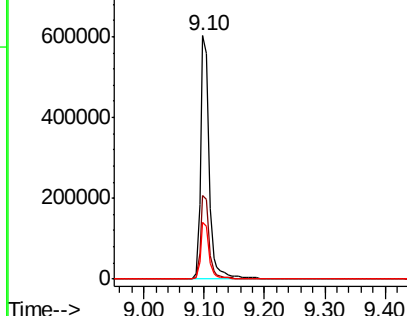
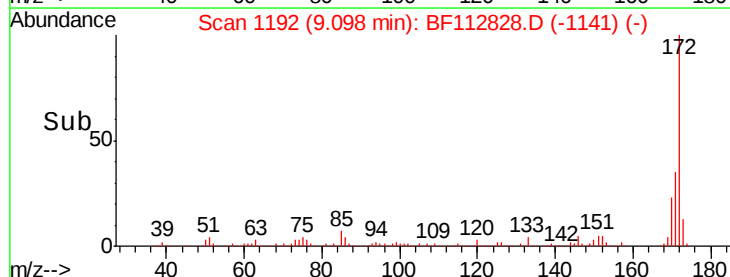


Abundance

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

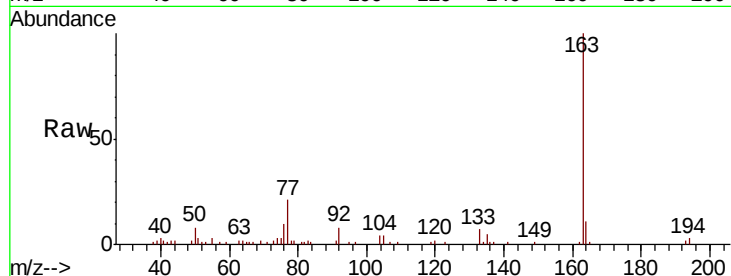




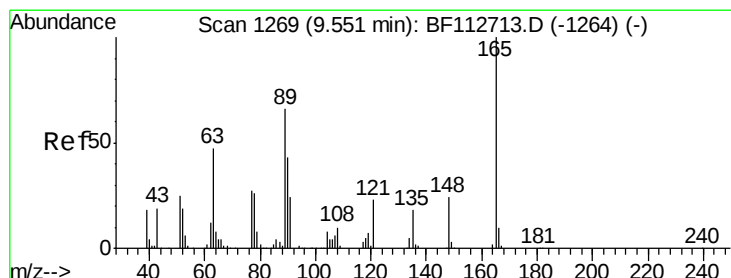
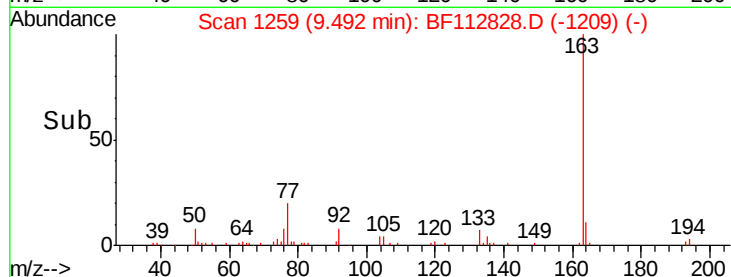
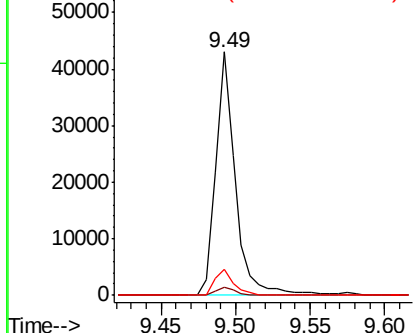
#50
Dimethylphthalate
Concen: 2.452 ng
RT: 9.49 min Scan# 1259
Delta R.T. -0.01 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Instrument :
BNA_F
ClientSampleId :
Z-4-2-AB

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.5	3.0	4.4
164	10.9	8.4	12.6

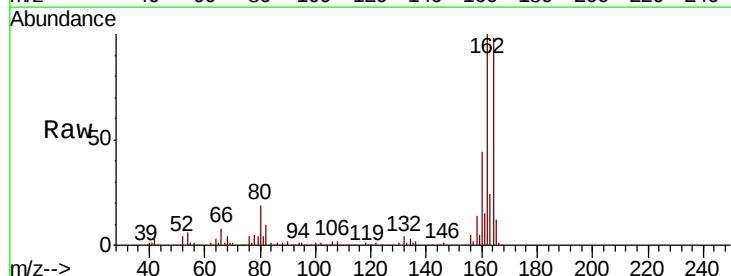


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

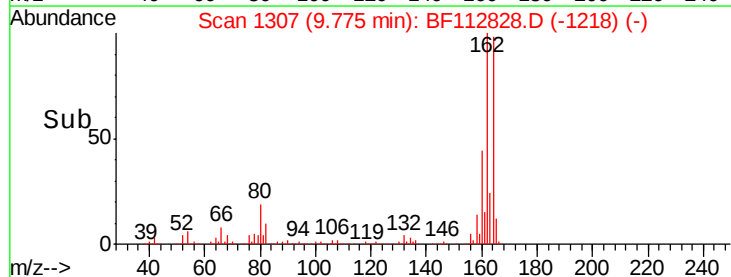
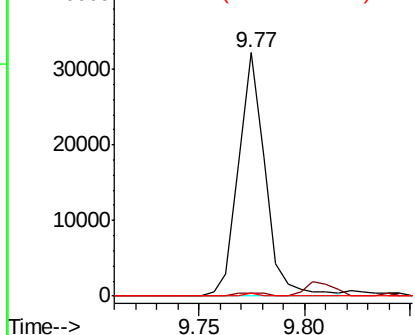


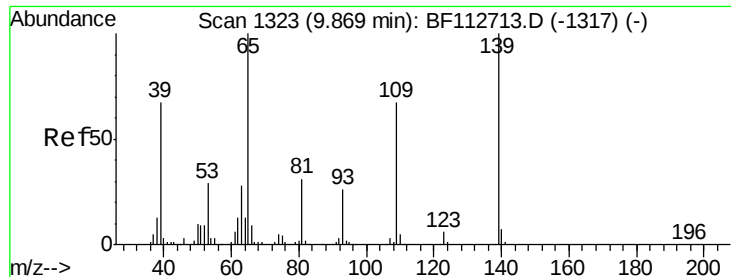
#51
2,6-Dinitrotoluene
Concen: 8.340 ng
RT: 9.77 min Scan# 1307
Delta R.T. 0.22 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.0	54.1	81.1#
89	1.4	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

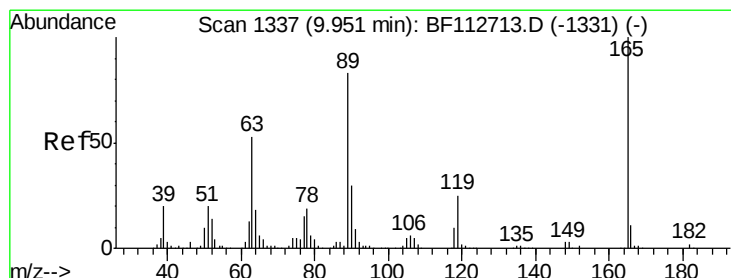
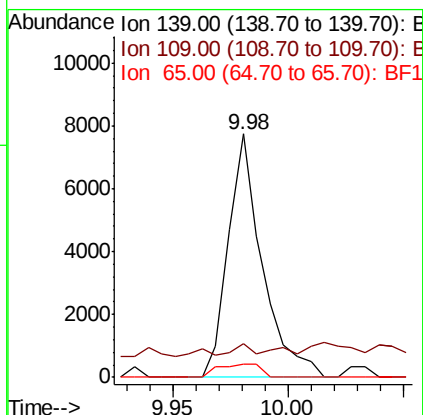
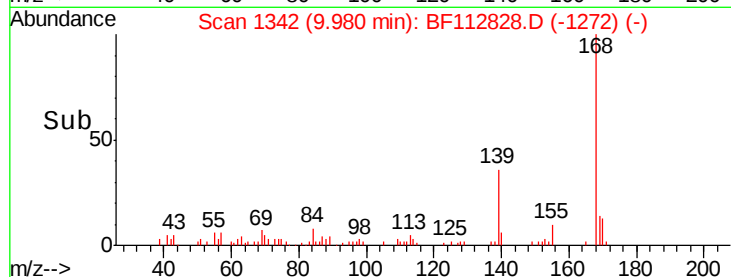
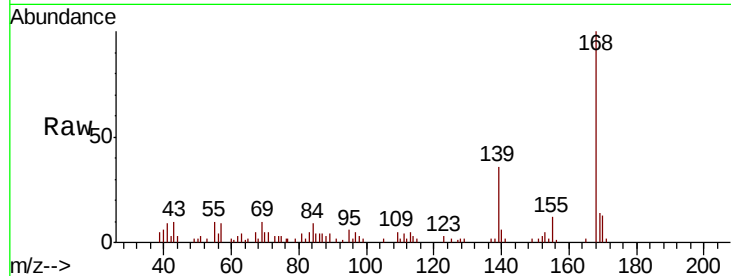




#56
4-Nitrophenol
Concen: 2.381 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.11 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

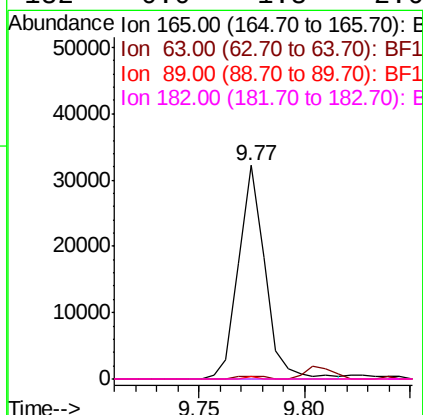
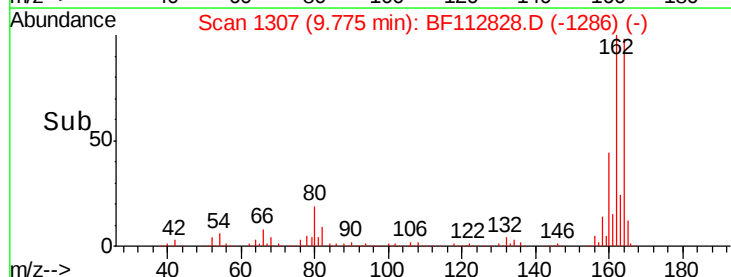
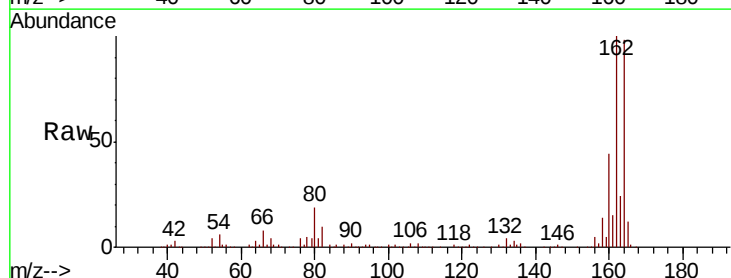
Instrument :
BNA_F
ClientSampleId :
Z-4-2-AB

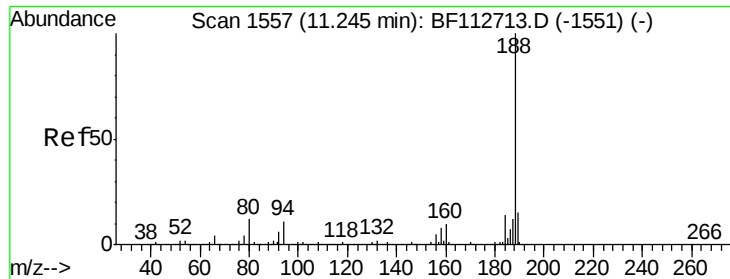
Tgt Ion:139 Resp: 7936
Ion Ratio Lower Upper
139 100
109 13.6 46.8 86.8#
65 5.3 80.7 120.7#



#57
2,4-Dinitrotoluene
Concen: 6.710 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.18 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Tgt Ion:165 Resp: 28068
Ion Ratio Lower Upper
165 100
63 1.0 42.2 63.2#
89 1.4 66.2 99.4#
182 0.0 1.8 2.6#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.26 min Scan# 1559

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Instrument :

BNA_F

ClientSampleId :

Z-4-2-AB

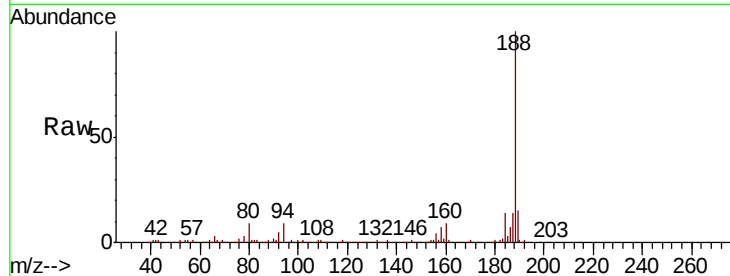
Tgt Ion:188 Resp: 442301

Ion Ratio Lower Upper

188 100

94 8.6 9.0 13.4#

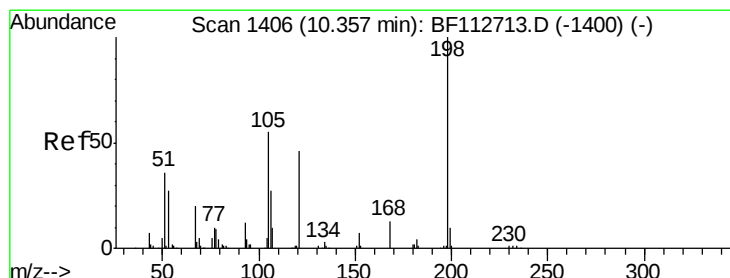
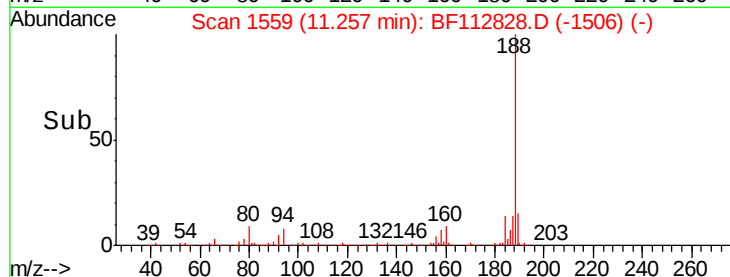
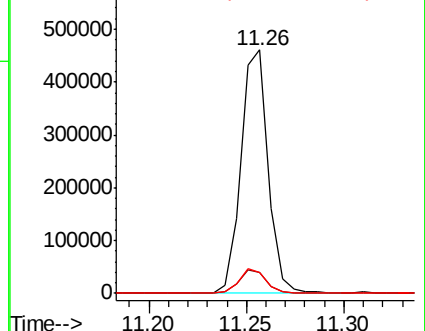
80 8.6 9.2 13.8#



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: 4.729 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.20 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

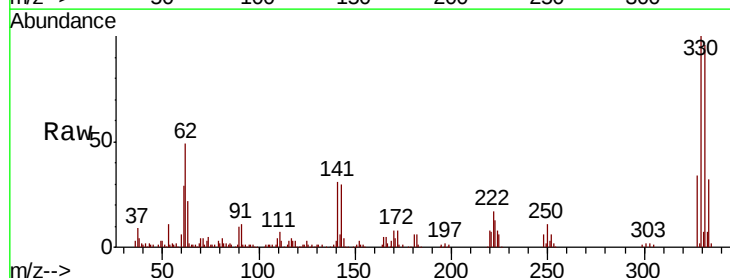
Tgt Ion:198 Resp: 234

Ion Ratio Lower Upper

198 100

51 341.1 43.8 83.8#

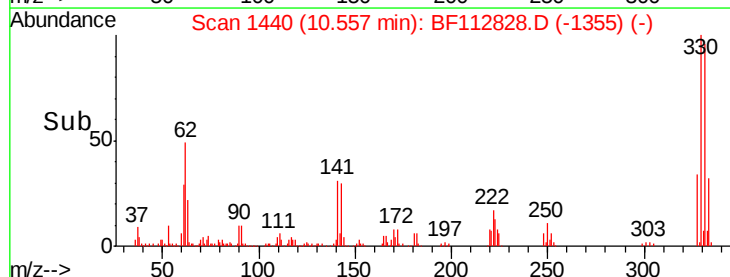
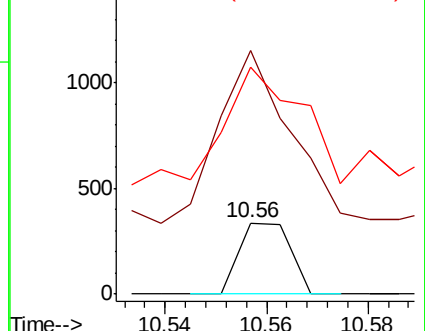
105 318.0 36.5 76.5#

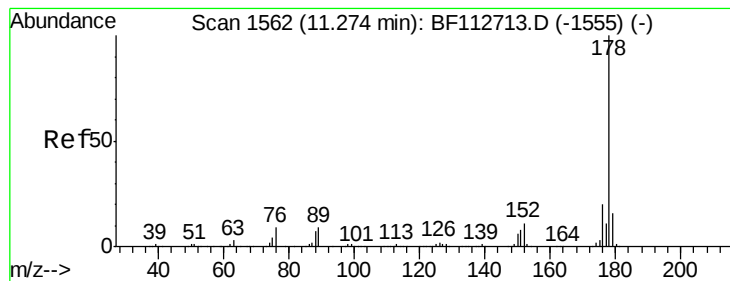


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E





#71

Phenanthrene

Concen: 23.084 ng

RT: 11.28 min Scan# 1563

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Instrument :

BNA_F

ClientSampleId :

Z-4-2-AB

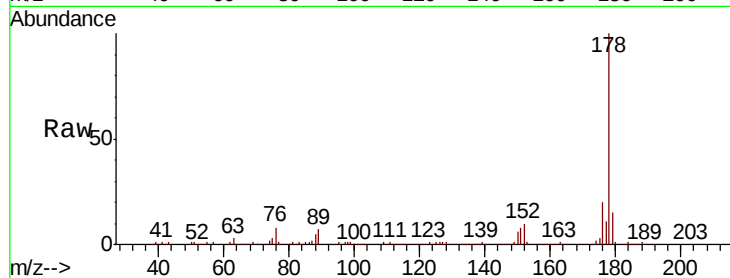
Tgt Ion:178 Resp: 507989

Ion Ratio Lower Upper

178 100

176 19.8 16.3 24.5

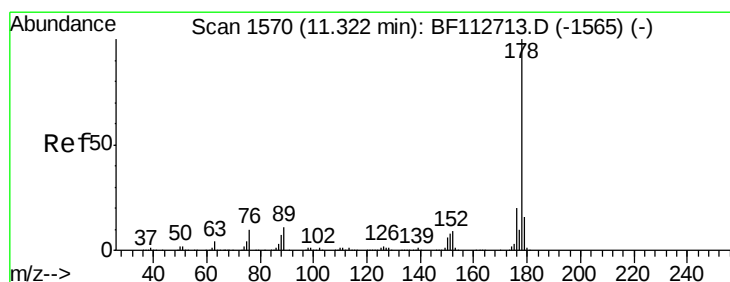
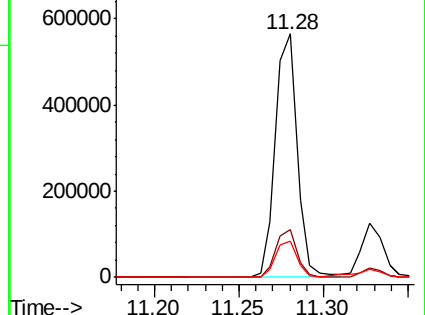
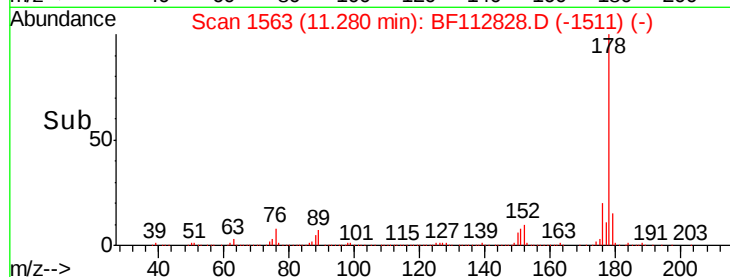
179 14.8 12.7 19.1



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: 4.693 ng

RT: 11.33 min Scan# 1571

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

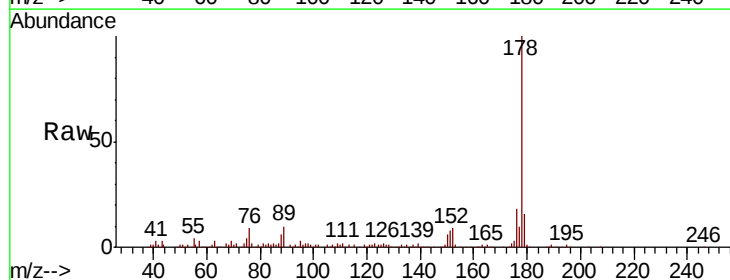
Tgt Ion:178 Resp: 108103

Ion Ratio Lower Upper

178 100

176 17.8 15.8 23.6

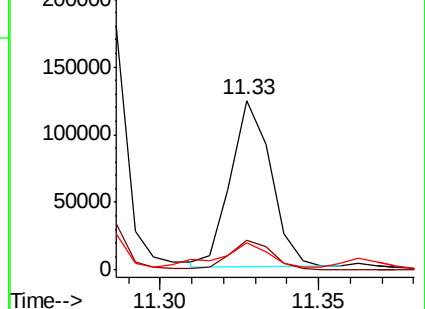
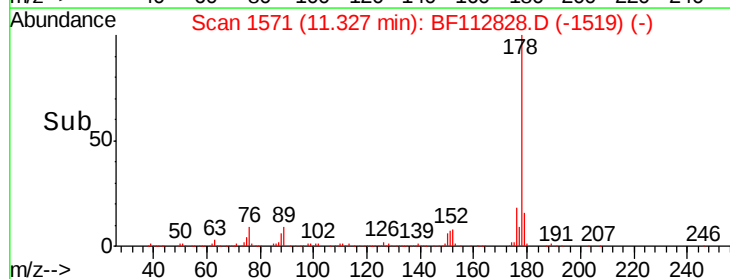
179 15.9 13.0 19.6

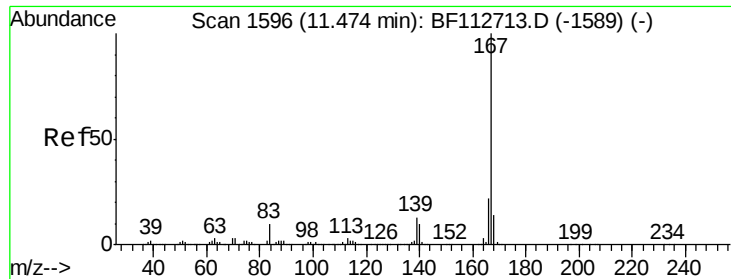


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 2.293 ng

RT: 11.48 min Scan# 1597

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Instrument :

BNA_F

ClientSampleId :

Z-4-2-AB

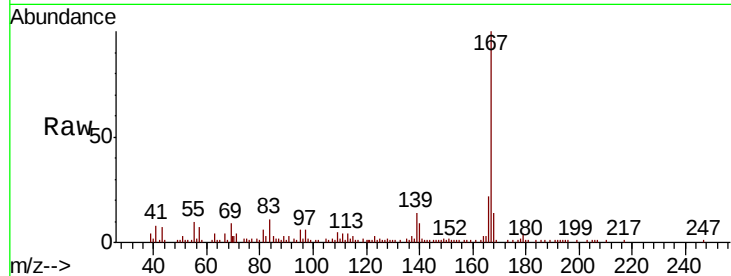
Tgt Ion:167 Resp: 51531

Ion Ratio Lower Upper

167 100

166 22.0 17.5 26.3

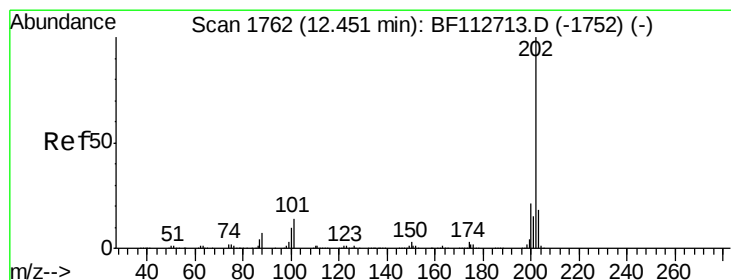
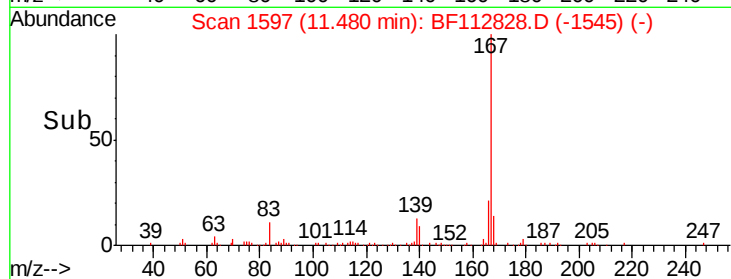
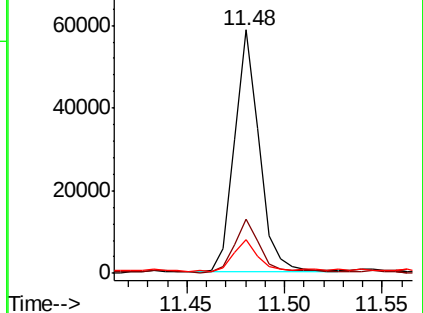
139 14.0 10.8 16.2



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: 38.767 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

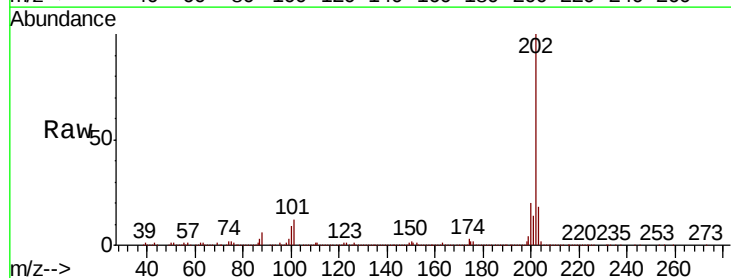
Tgt Ion:202 Resp: 914005

Ion Ratio Lower Upper

202 100

101 12.0 0.0 33.8

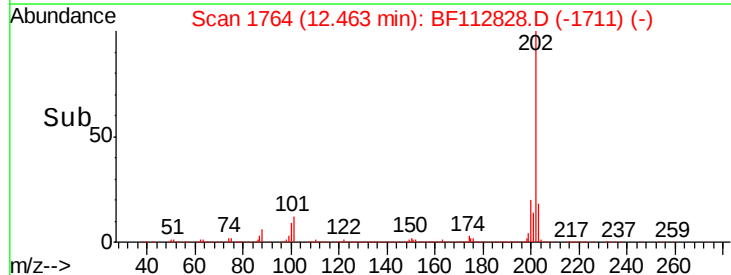
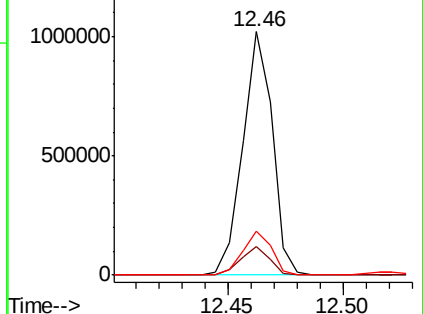
203 17.8 0.0 38.4

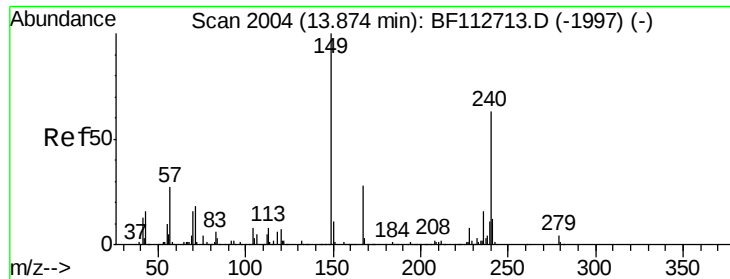


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

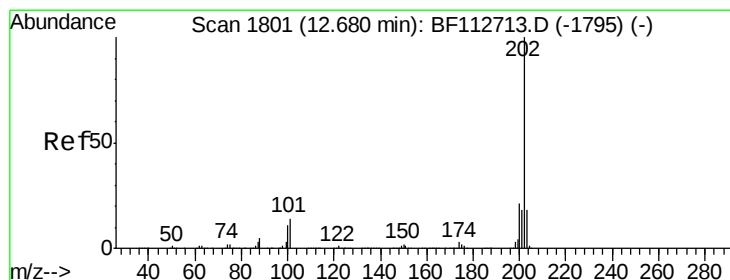
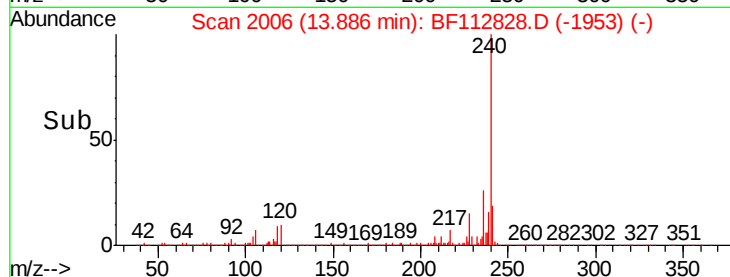
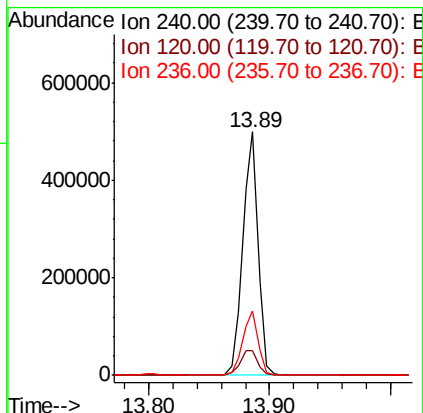
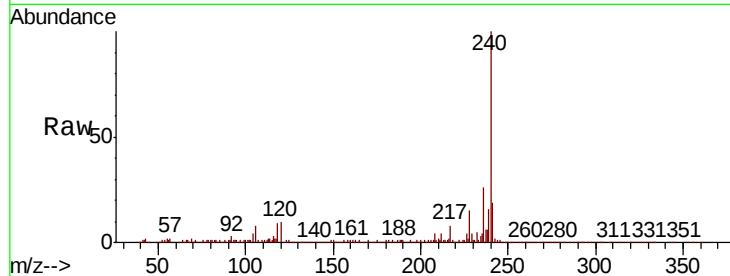




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.89 min Scan# 2006
Delta R.T. 0.01 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

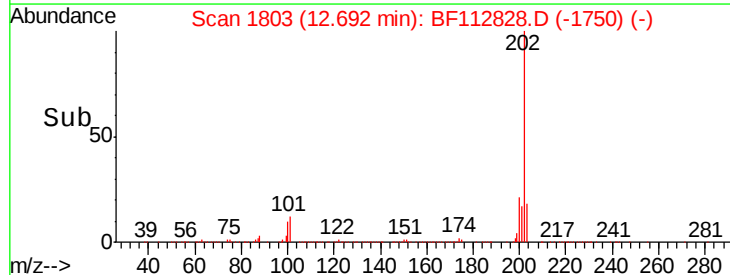
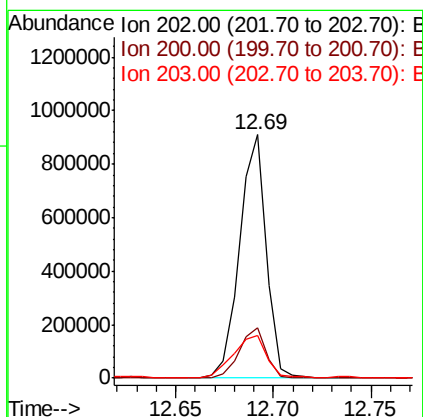
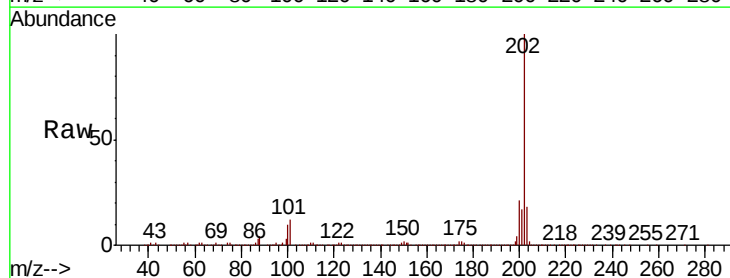
Instrument :
BNA_F
ClientSampleId :
Z-4-2-AB

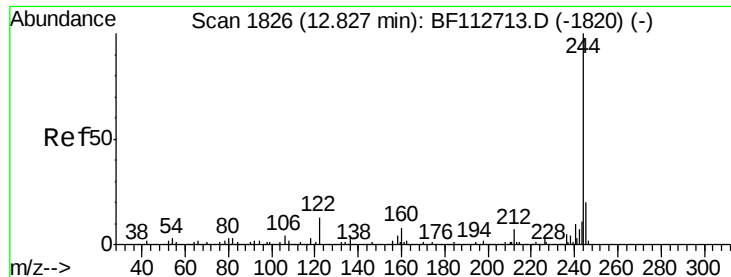
Tgt Ion:240 Resp: 439855
Ion Ratio Lower Upper
240 100
120 10.3 8.9 13.3
236 26.5 20.7 31.1



#78
Pyrene
Concen: 23.151 ng
RT: 12.69 min Scan# 1803
Delta R.T. 0.01 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Tgt Ion:202 Resp: 858458
Ion Ratio Lower Upper
202 100
200 20.7 17.0 25.4
203 17.7 14.4 21.6





#79

Terphenyl-d14

Concen: 29.898 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Instrument :

BNA_F

ClientSampled :

Z-4-2-AB

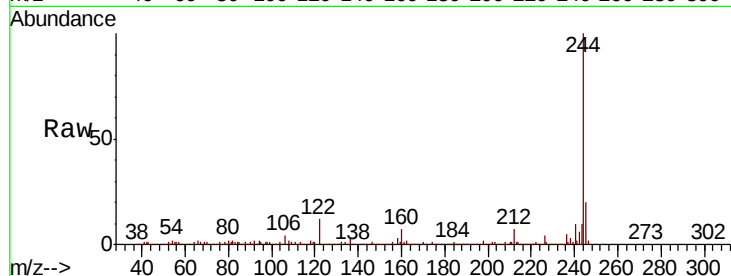
Tgt Ion:244 Resp: 678399

Ion Ratio Lower Upper

244 100

212 6.6 5.6 8.4

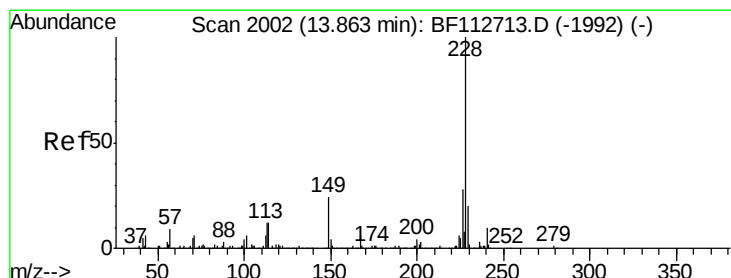
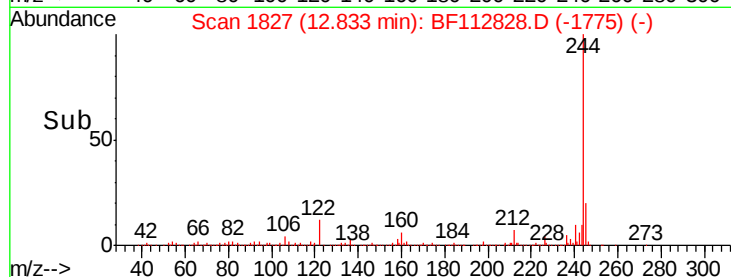
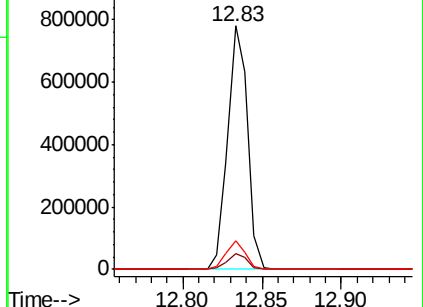
122 11.6 10.5 15.7



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: 15.398 ng

RT: 13.87 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

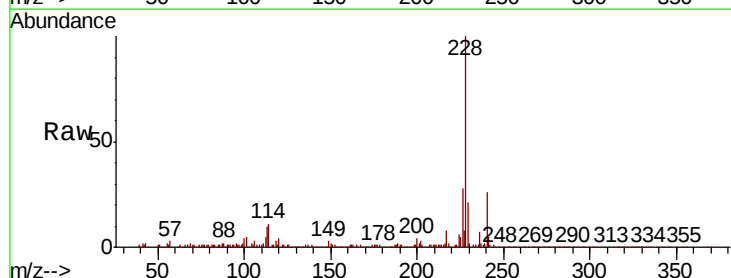
Tgt Ion:228 Resp: 469417

Ion Ratio Lower Upper

228 100

226 28.2 22.2 33.4

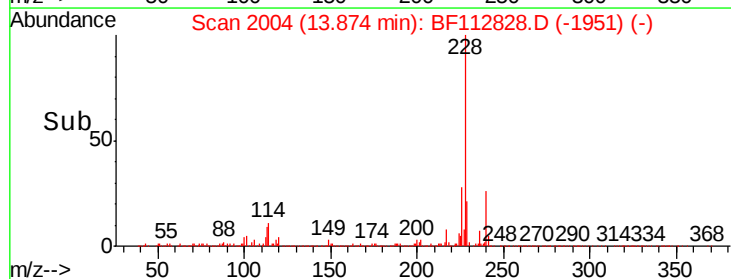
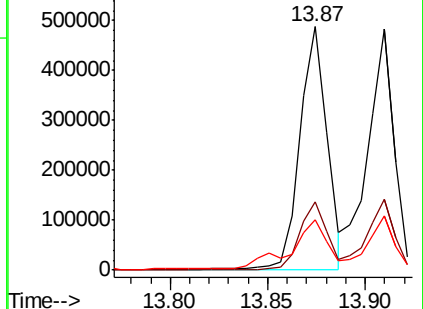
229 20.9 16.0 24.0

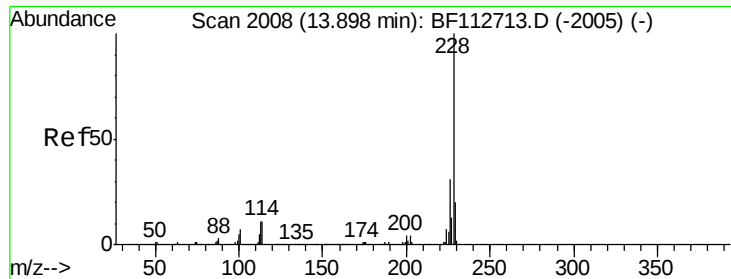


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 14.007 ng

RT: 13.91 min Scan# 2010

Delta R.T. 0.01 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Instrument :

BNA_F

ClientSampleId :

Z-4-2-AB

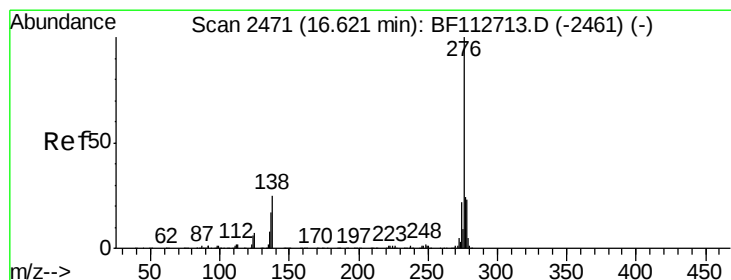
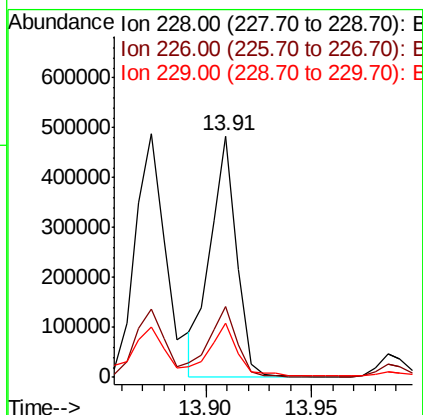
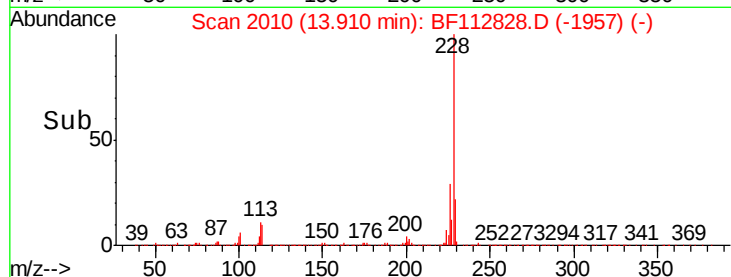
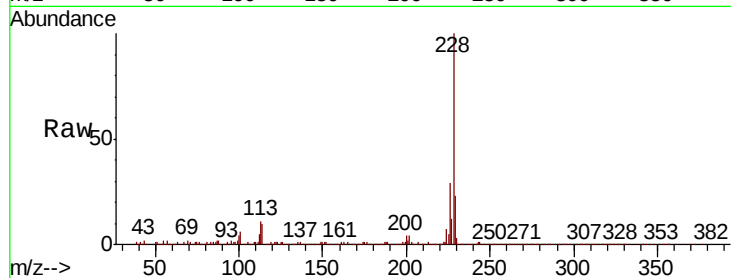
Tgt Ion:228 Resp: 418265

Ion Ratio Lower Upper

228 100

226 29.5 24.9 37.3

229 22.6 16.3 24.5



#86

Indeno(1,2,3-cd)pyrene

Concen: 6.802 ng

RT: 16.66 min Scan# 2478

Delta R.T. 0.04 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

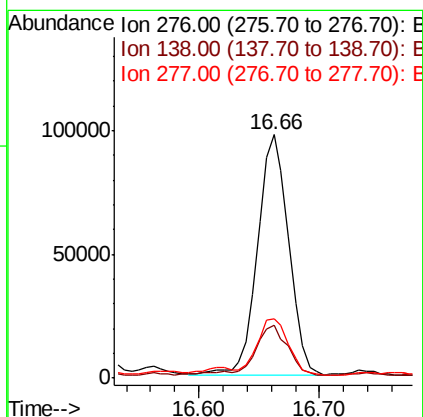
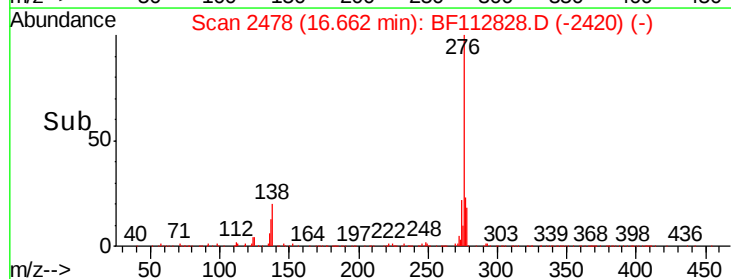
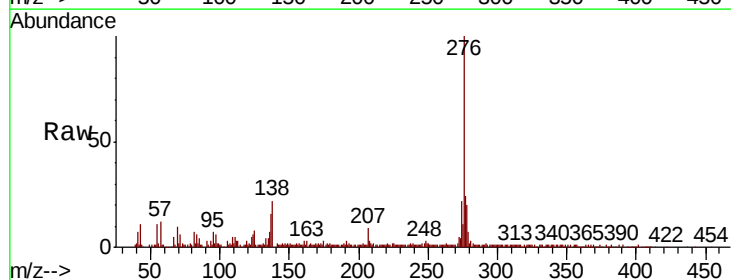
Tgt Ion:276 Resp: 173150

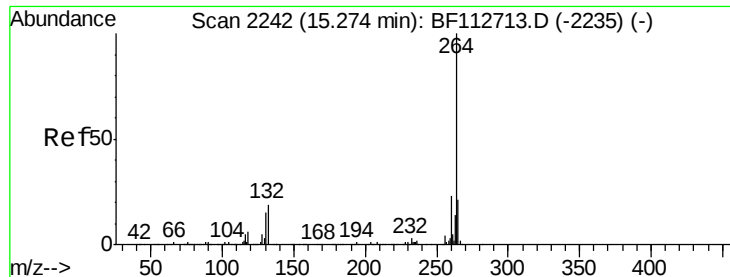
Ion Ratio Lower Upper

276 100

138 22.8 23.2 34.8#

277 23.7 19.9 29.9





#87

Perylene-d12

Concen: 20.000 ng

RT: 15.30 min Scan# 2246

Delta R.T. 0.02 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

Instrument :

BNA_F

ClientSampleId :

Z-4-2-AB

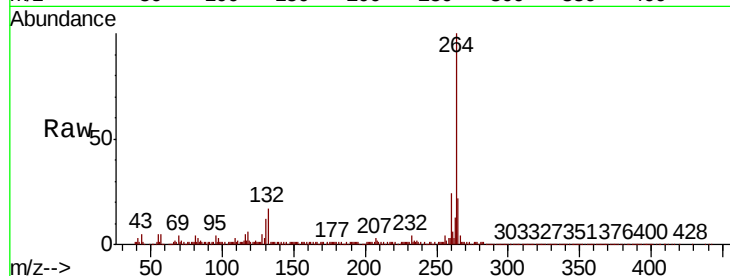
Tgt Ion:264 Resp: 321397

Ion Ratio Lower Upper

264 100

260 23.9 18.7 28.1

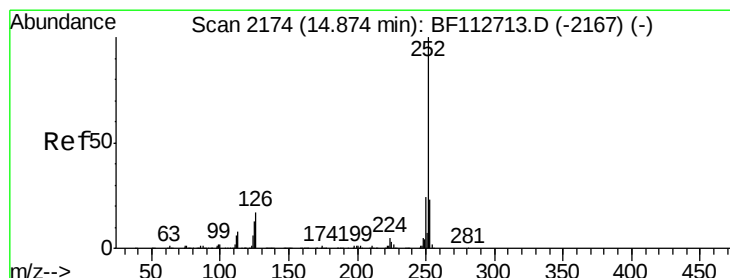
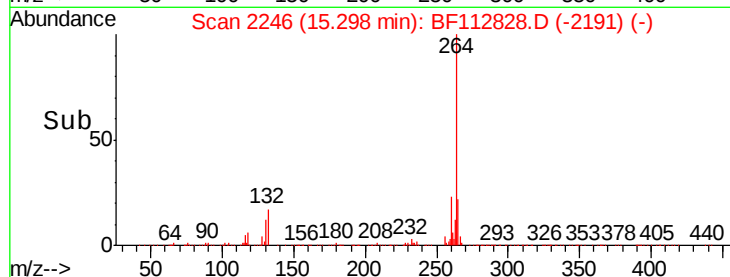
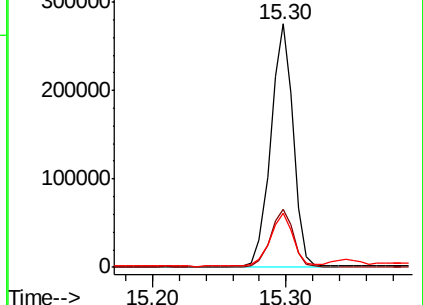
265 22.2 17.2 25.8



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: 28.916 ng

RT: 14.90 min Scan# 2178

Delta R.T. 0.02 min

Lab File: BF112828.D

Acq: 4 Mar 2019 17:01

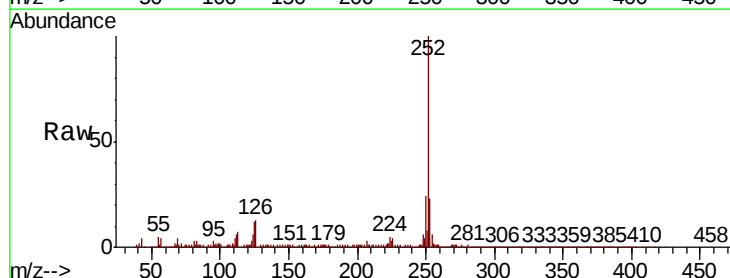
Tgt Ion:252 Resp: 601123

Ion Ratio Lower Upper

252 100

253 23.3 18.0 27.0

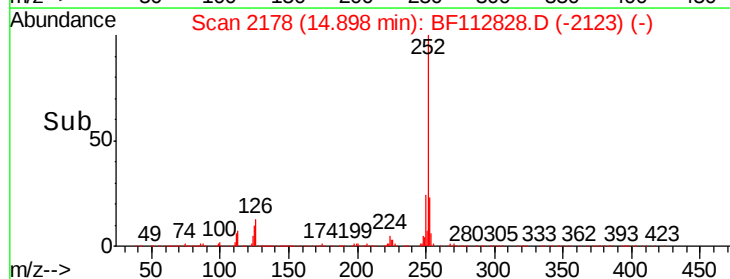
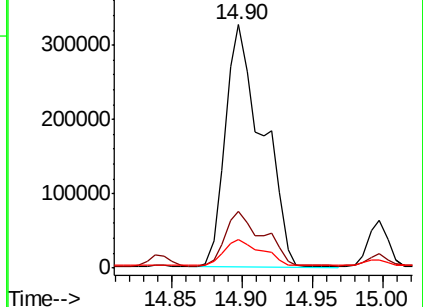
125 11.6 10.2 15.2

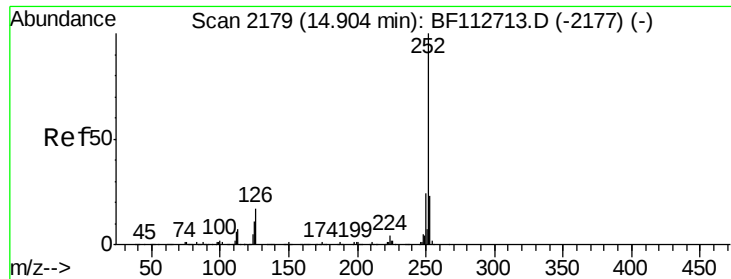


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

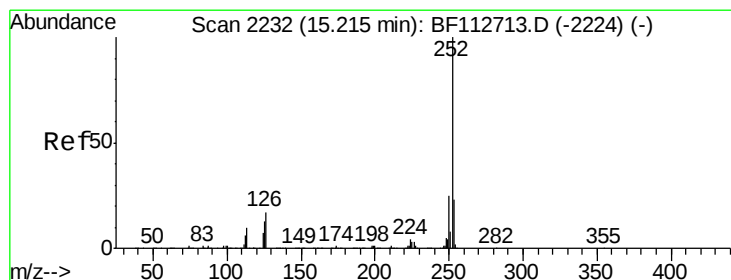
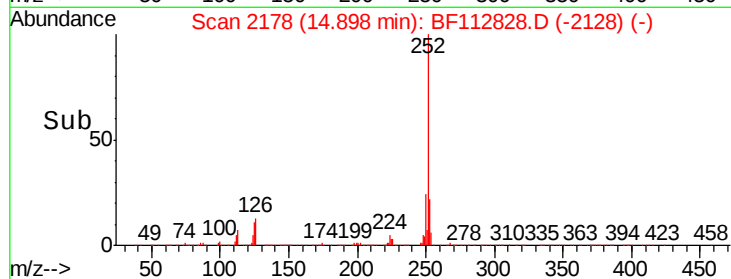
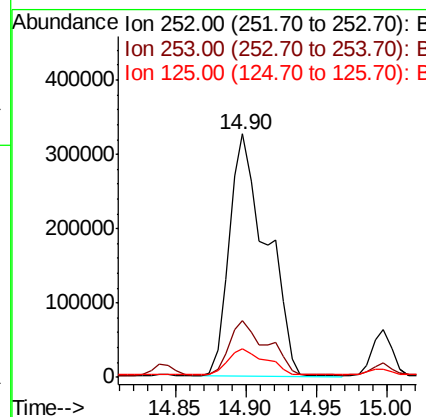
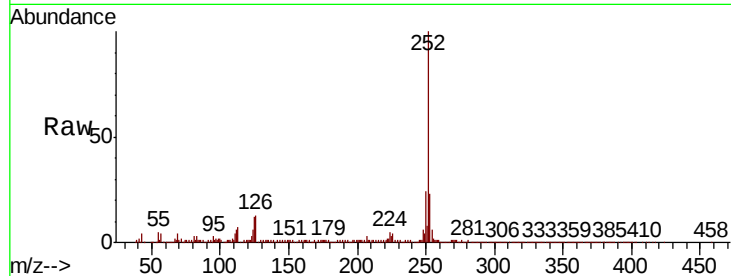




#89
Benzo(k)fluoranthene
Concen: 31.923 ng
RT: 14.90 min Scan# 2178
Delta R.T. -0.01 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

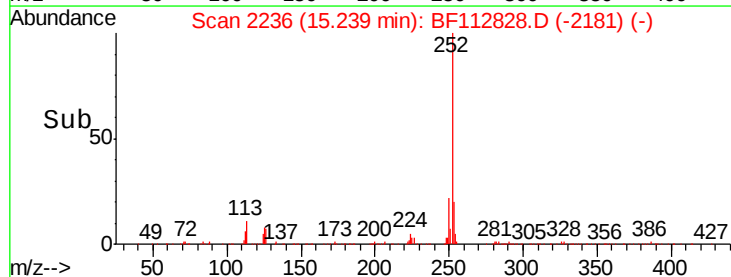
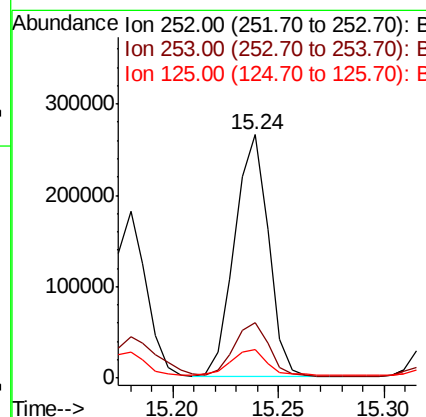
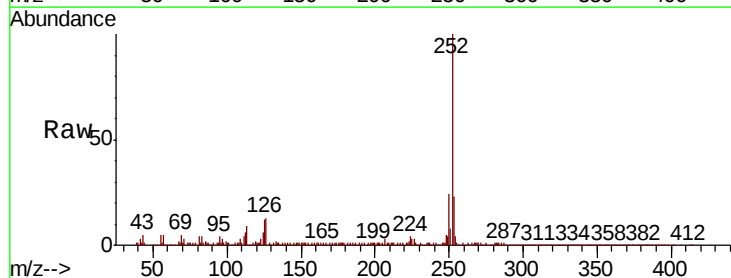
Instrument :
BNA_F
ClientSampleId :
Z-4-2-AB

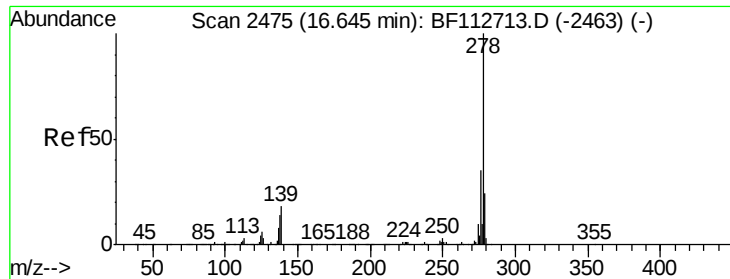
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.2
125	11.6	9.8	14.6



#90
Benzo(a)pyrene
Concen: 16.020 ng
RT: 15.24 min Scan# 2236
Delta R.T. 0.02 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.0	27.0
125	11.6	10.7	16.1

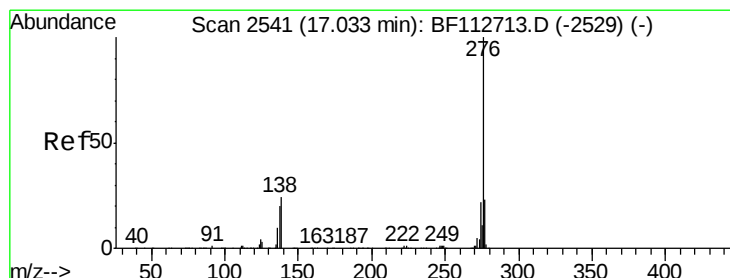
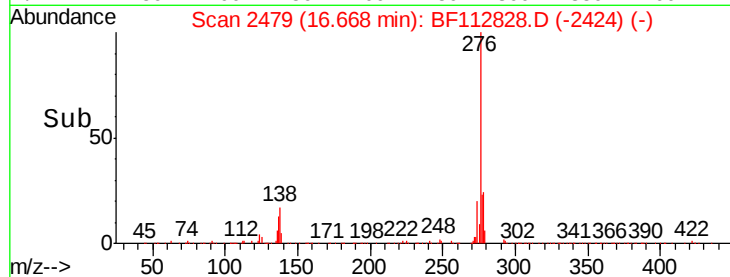
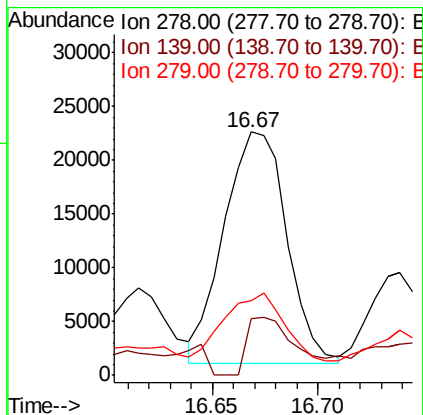
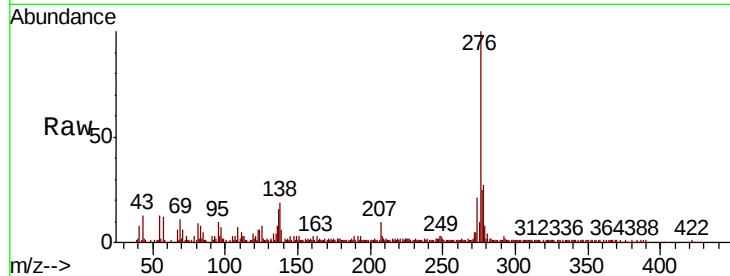




#91
Dibenzo(a,h)anthracene
Concen: 2.830 ng
RT: 16.67 min Scan# 2479
Delta R.T. 0.02 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Instrument :
BNA_F
ClientSampleId :
Z-4-2-AB

Tgt Ion: 278 Resp: 44409
Ion Ratio Lower Upper
278 100
139 23.5 14.3 21.5#
279 30.7 19.4 29.0#



#92
Benzo(g,h,i)perylene
Concen: 10.508 ng
RT: 17.07 min Scan# 2548
Delta R.T. 0.04 min
Lab File: BF112828.D
Acq: 4 Mar 2019 17:01

Tgt Ion: 276 Resp: 165569
Ion Ratio Lower Upper
276 100
277 24.4 18.6 27.8
138 21.7 19.4 29.0

