

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF022719\
 Data File : BF112742.D
 Acq On : 28 Feb 2019 2:11
 Operator : JU/SJ
 Sample : K1596-01
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-13

Quant Time: Feb 28 04:20:51 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 27 16:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	206472	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	725162	20.00	ng	0.00
39) Acenaphthene-d10	9.77	164	310775	20.00	ng	0.00
64) Phenanthrene-d10	11.25	188	634564	20.00	ng	0.00
76) Chrysene-d12	13.87	240	491716	20.00	ng	0.00
87) Perylene-d12	15.28	264	339557	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.35	112	1183125	89.14	ng	0.00
7) Phenol-d6	6.37	99	1479148	88.71	ng	0.00
23) Nitrobenzene-d5	7.30	82	853238	70.41	ng	0.00
42) 2,4,6-Tribromophenol	10.56	330	342019	103.67	ng	0.00
45) 2-Fluorobiphenyl	9.10	172	1202278	62.97	ng	0.00
79) Terphenyl-d14	12.83	244	1270961	50.11	ng	0.00

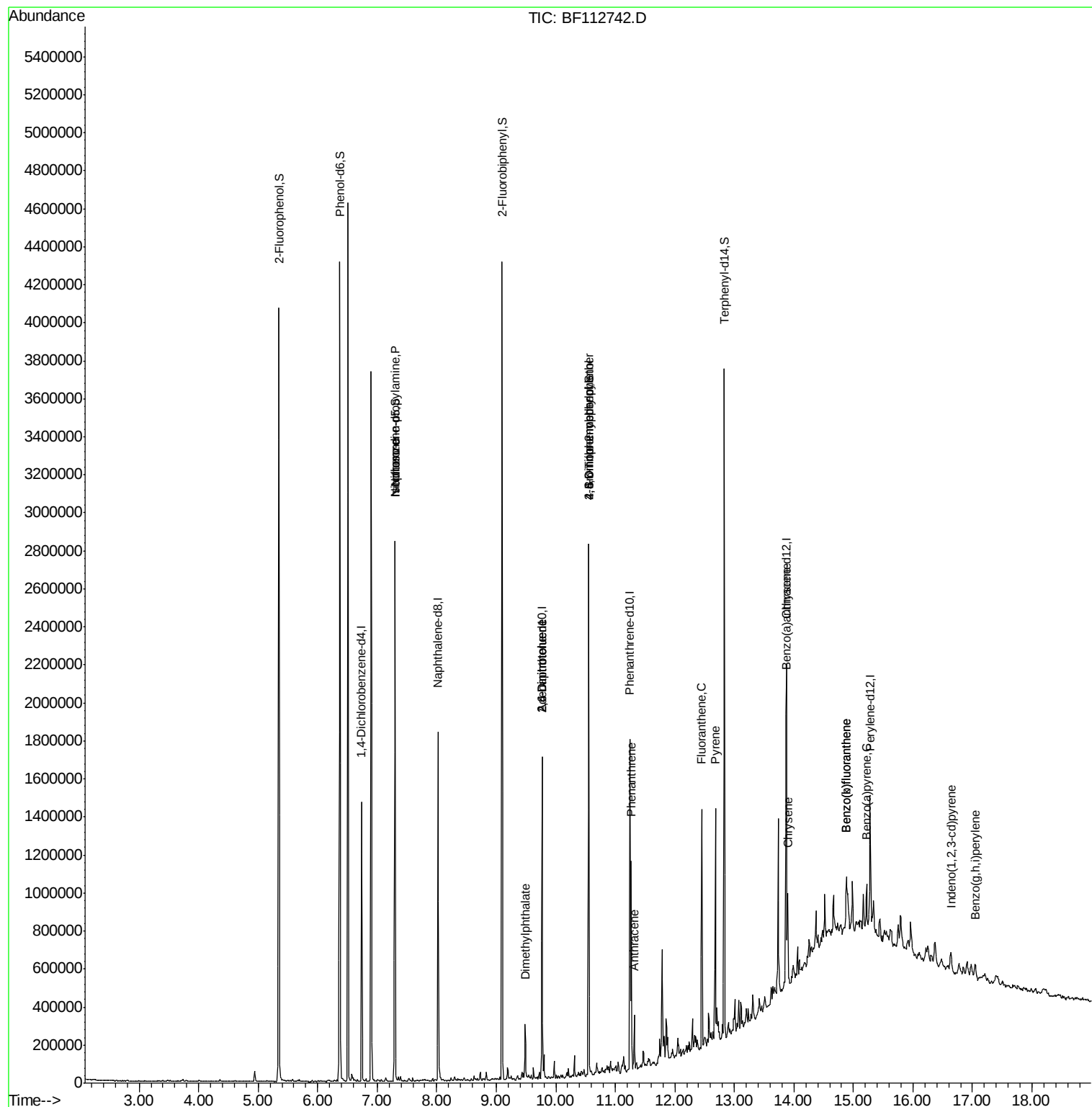
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.30	70	116066	10.991	ng	# 77
25) Isophorone	7.30	82	849669	32.544	ng	# 66
50) Dimethylphthalate	9.49	163	96281	4.202	ng	99
51) 2,6-Dinitrotoluene	9.77	165	40904	8.572	ng	# 18
57) 2,4-Dinitrotoluene	9.77	165	40904	6.896	ng	# 18
65) 4,6-Dinitro-2-methylphenol	10.56	198	617	4.827	ng	# 1
67) 4-Bromophenyl-phenylether	10.55	248	20070	3.003	ng	# 1
71) Phenanthrene	11.27	178	373367	11.826	ng	98
72) Anthracene	11.32	178	96705	2.926	ng	97
75) Fluoranthene	12.45	202	504874	14.926	ng	99
78) Pyrene	12.68	202	455816	10.996	ng	99
81) Benzo(a)anthracene	13.86	228	207764	6.096	ng	96
83) Chrysene	13.90	228	175957	5.271	ng	96
86) Indeno(1,2,3-cd)pyrene	16.63	276	65102	2.288	ng	# 92
88) Benzo(b)fluoranthene	14.88	252	214985	9.788	ng	93
89) Benzo(k)fluoranthene	14.88	252	214985	10.806	ng	# 93
90) Benzo(a)pyrene	15.22	252	109443	5.634	ng	# 93
92) Benzo(a,h,i)perylene	17.04	276	62436	3.751	ng	97

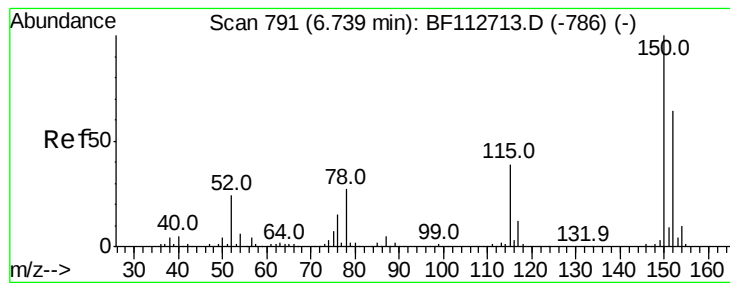
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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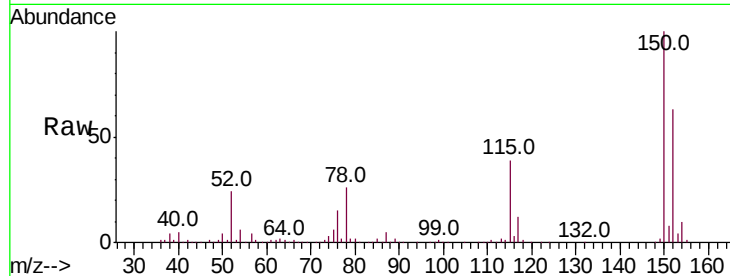


#1

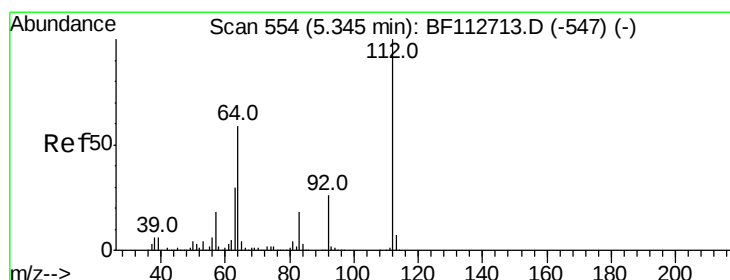
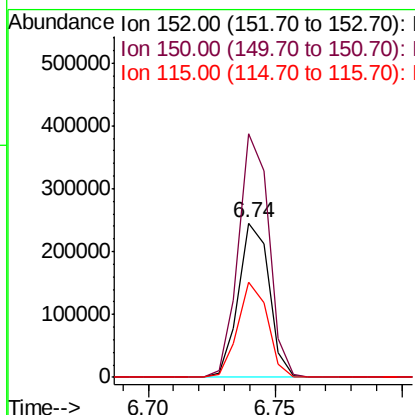
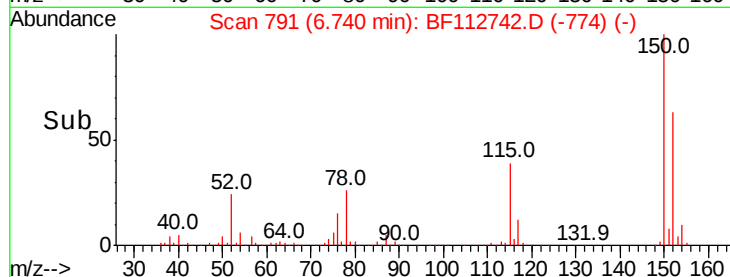
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.74 min Scan# 791
Delta R.T. 0.00 min
Lab File: BF112742.D
Acq: 28 Feb 2019 2:11

Instrument :
BNA_F
ClientSampleId :
COMP-13

Tot Ion:152 Resp: 206472
Ion Ratio Lower Upper
152 100
150 158.0 124.2 186.2
115 61.5 48.2 72.4



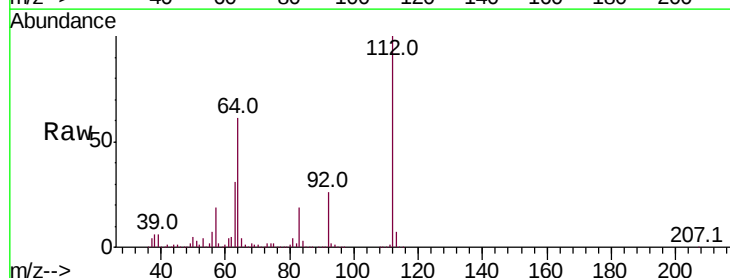
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



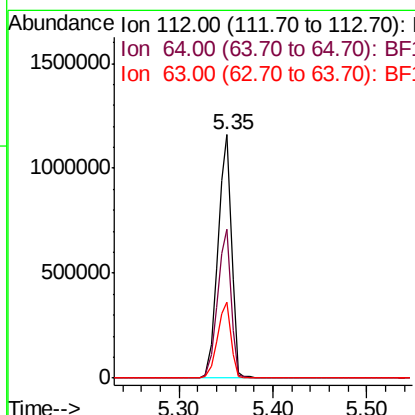
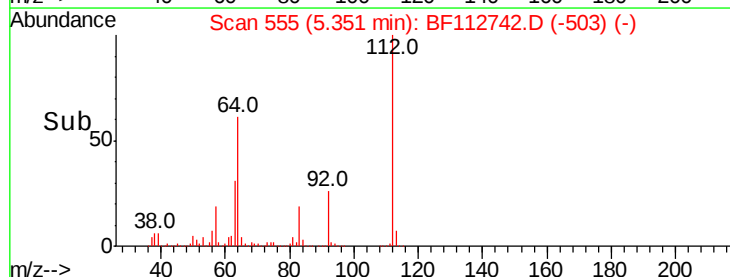
#5

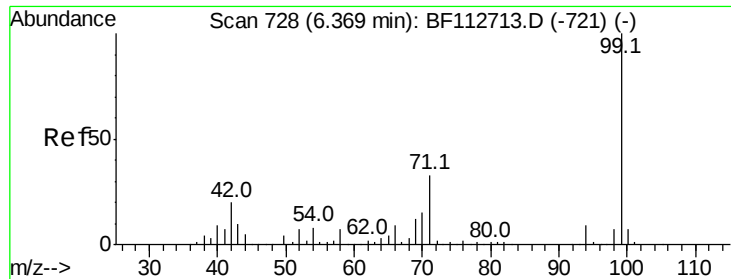
2-Fluorophenol
Concen: 89.136 ng
RT: 5.35 min Scan# 555
Delta R.T. 0.01 min
Lab File: BF112742.D
Acq: 28 Feb 2019 2:11

Tgt Ion:112 Resp: 1183125
Ion Ratio Lower Upper
112 100
64 61.2 47.6 71.4
63 31.3 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: 88.713 ng

RT: 6.37 min Scan# 729

Delta R.T. 0.01 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

Instrument :

BNA_F

ClientSampleId :

COMP-13

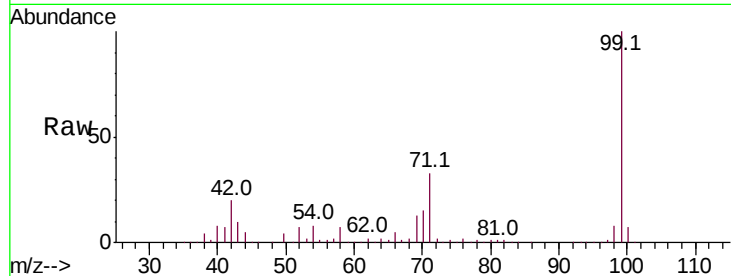
Tot Ion: 99 Resp: 1479148

Ion Ratio Lower Upper

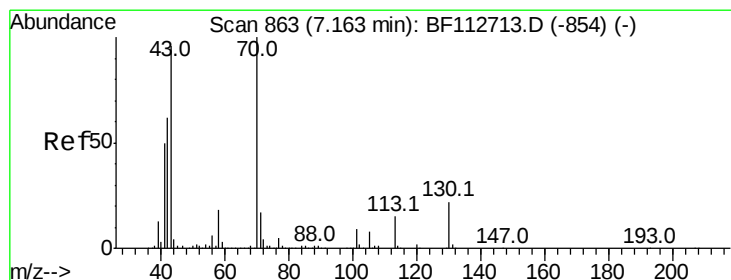
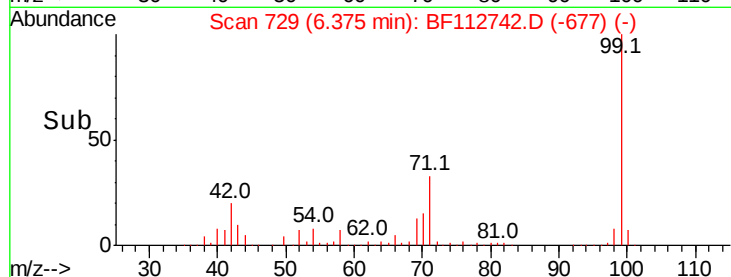
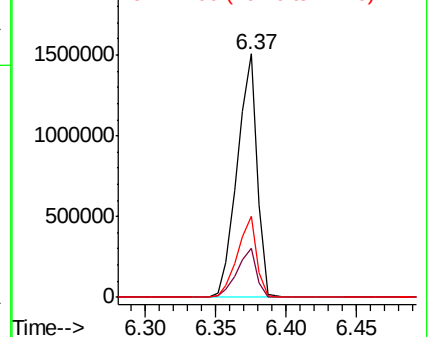
99 100

42 19.9 16.3 24.5

71 33.4 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: 10.991 ng

RT: 7.30 min Scan# 886

Delta R.T. 0.14 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

Tgt Ion: 70 Resp: 116066

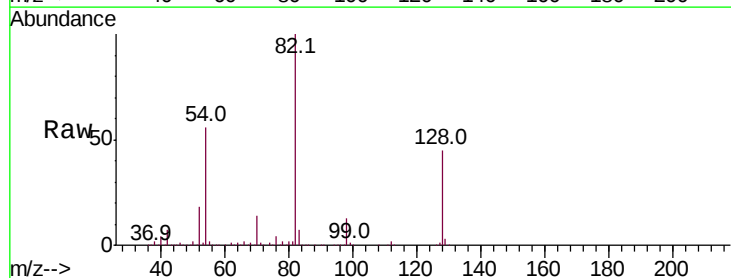
Ion Ratio Lower Upper

70 100

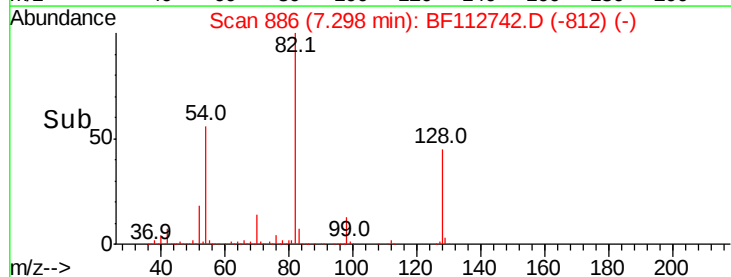
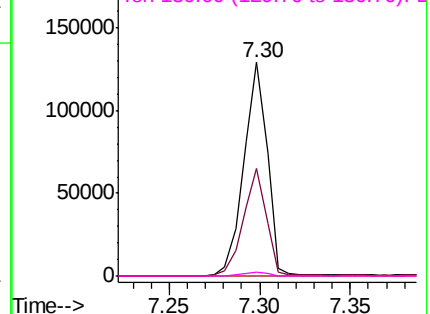
42 50.1 49.9 74.9

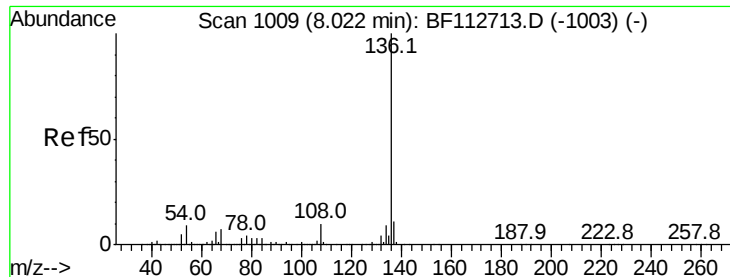
101 0.0 7.4 11.2#

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): E
Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.02 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

Instrument :

BNA_F

ClientSampleId :

COMP-13

Tot Ion:136 Resp: 725162

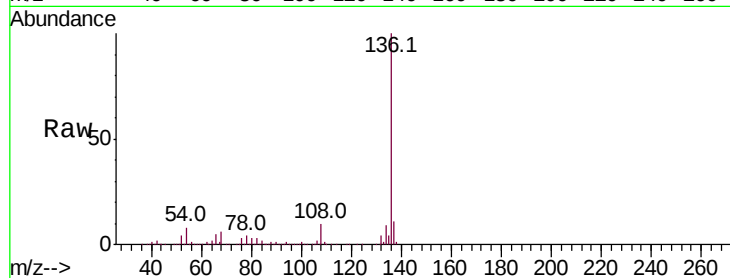
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 8.4 7.3 10.9

68 6.3 5.4 8.2

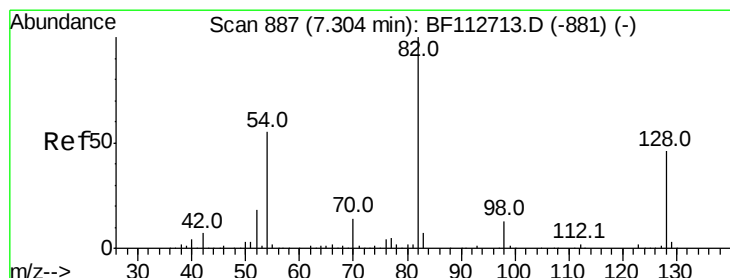
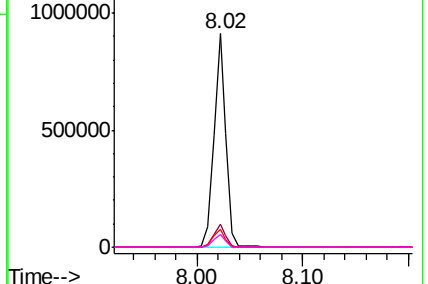
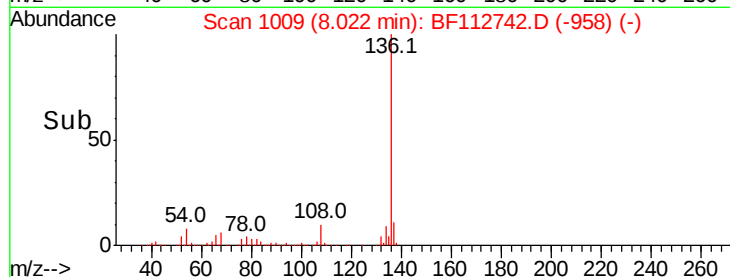


Abundance Ion 136.00 (135.70 to 136.70): E

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: 70.406 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.01 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

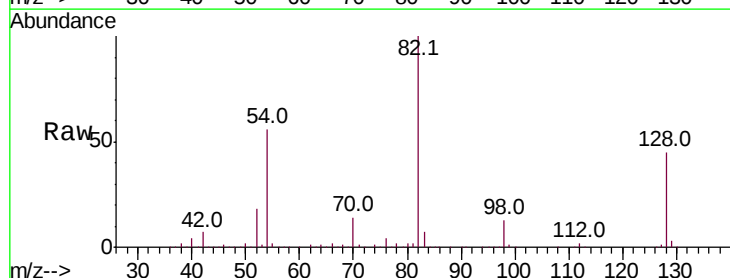
Tgt Ion: 82 Resp: 853238

Ion Ratio Lower Upper

82 100

128 45.3 36.3 54.5

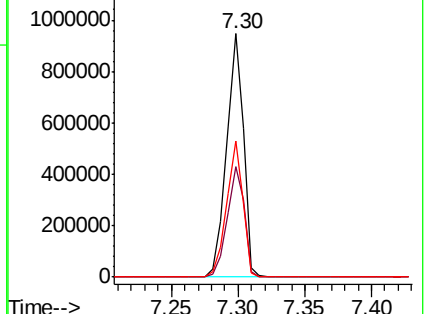
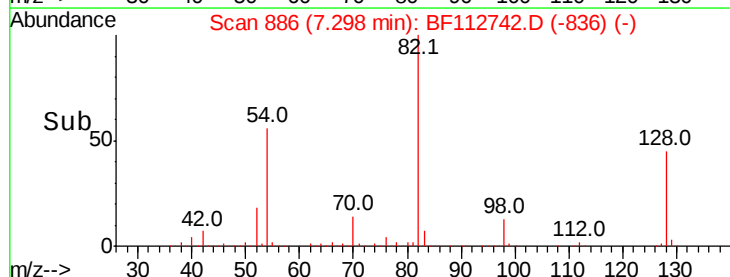
54 55.8 43.7 65.5

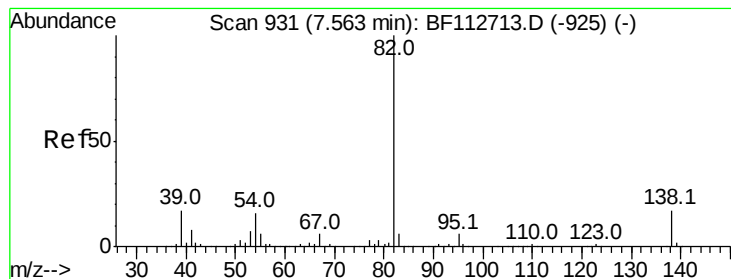


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 32.544 ng

RT: 7.30 min Scan# 886

Delta R.T. -0.26 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

Instrument :

BNA_F

ClientSampleId :

COMP-13

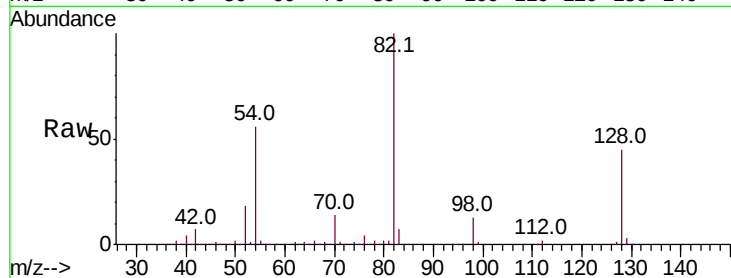
Tot Ion: 82 Resp: 849669

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

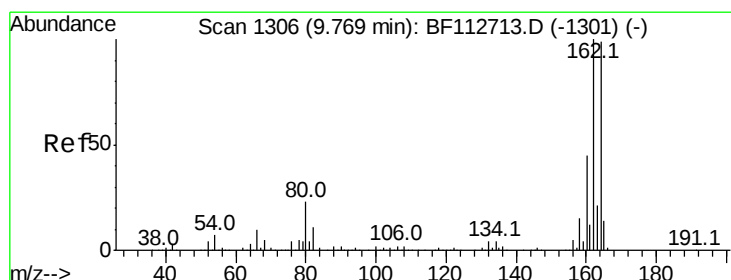
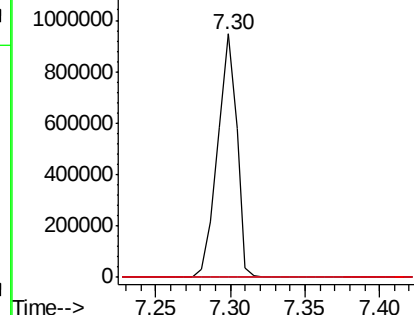
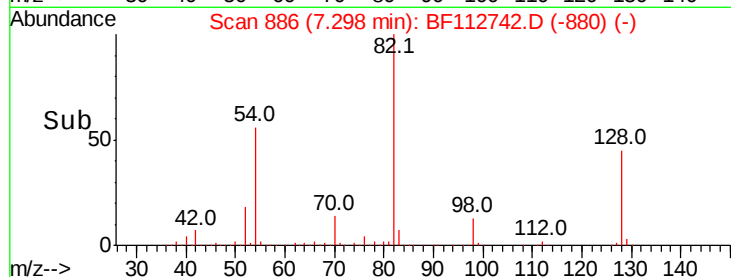
138 0.0 13.8 20.8#



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# 1306

Delta R.T. 0.00 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

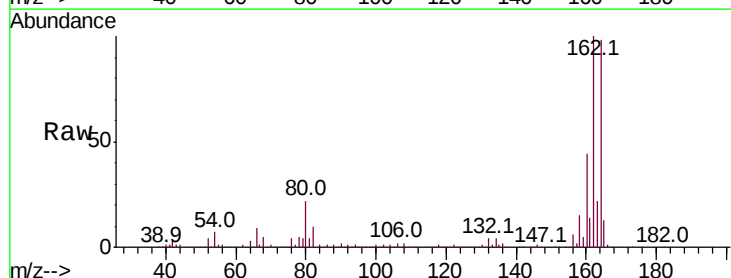
Tgt Ion:164 Resp: 310775

Ion Ratio Lower Upper

164 100

162 101.8 80.6 120.8

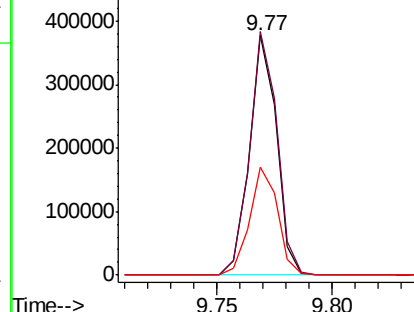
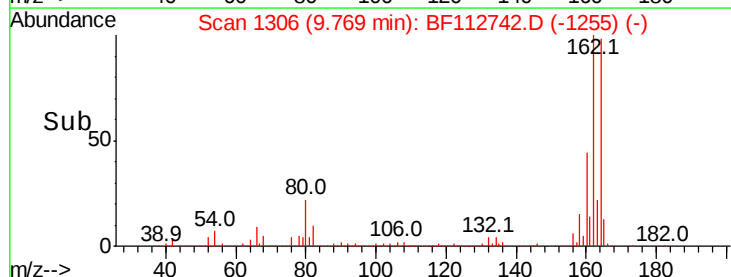
160 45.1 36.0 54.0

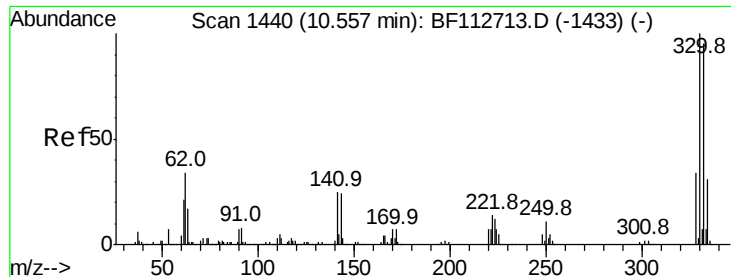


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

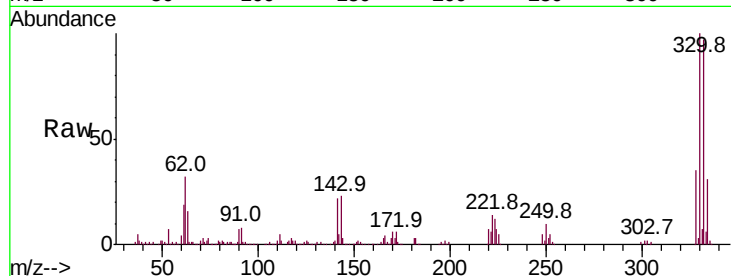




#42
 2,4,6-Tribromophenol
 Concen: 103.665 ng
 RT: 10.56 min Scan# 1440
 Delta R.T. 0.00 min
 Lab File: BF112742.D
 Acq: 28 Feb 2019 2:11

Instrument :
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 ClientSampleId :
 COMP-13

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.2	114.4
141	31.8	27.0	40.6

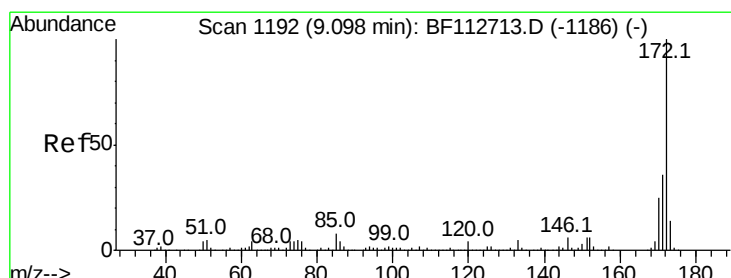
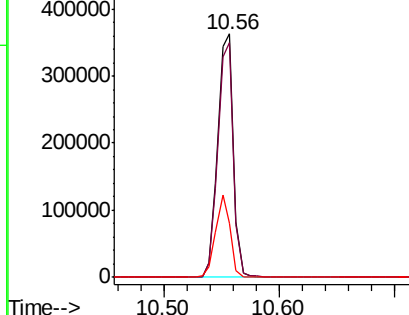
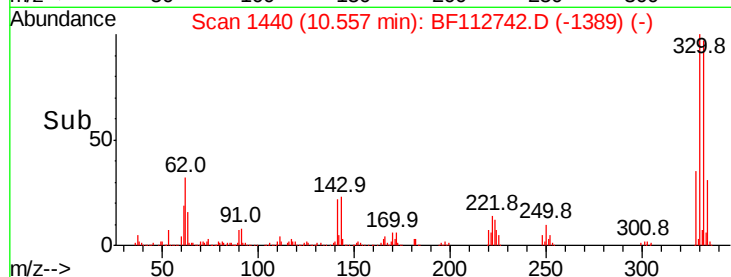


Abundance

Ion 329.80 (329.50 to 330.50): E

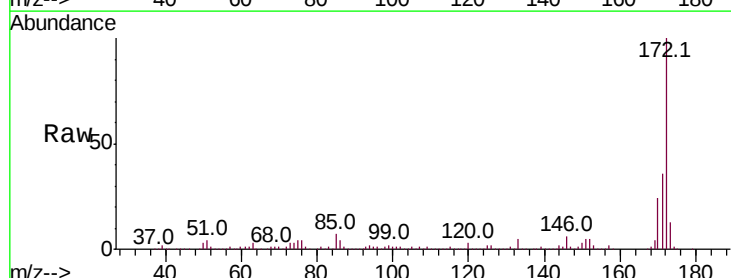
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 62.974 ng
 RT: 9.10 min Scan# 1192
 Delta R.T. 0.00 min
 Lab File: BF112742.D
 Acq: 28 Feb 2019 2:11

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	24.0	20.0	30.0

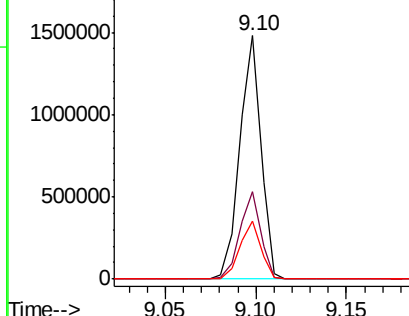
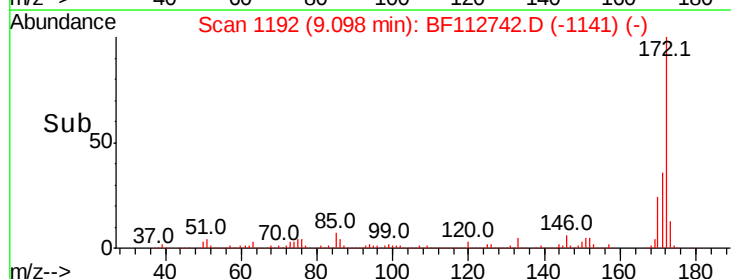


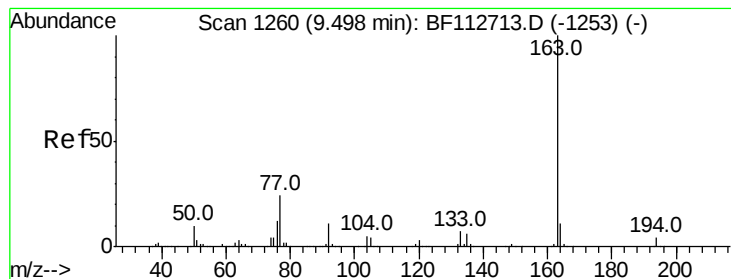
Abundance

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: 4.202 ng

RT: 9.49 min Scan# 1258

Delta R.T. -0.01 min

Lab File: BF112742.D

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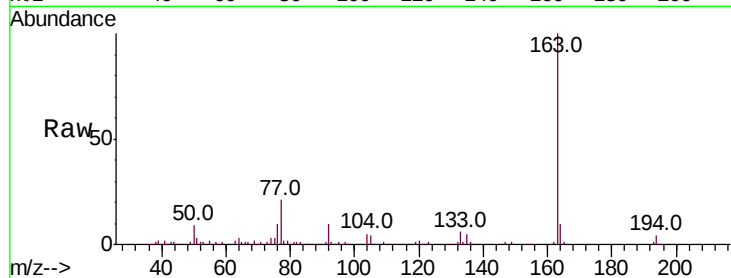
Tot Ion:163 Resp: 96281

Ion Ratio Lower Upper

163 100

194 4.4 3.0 4.4

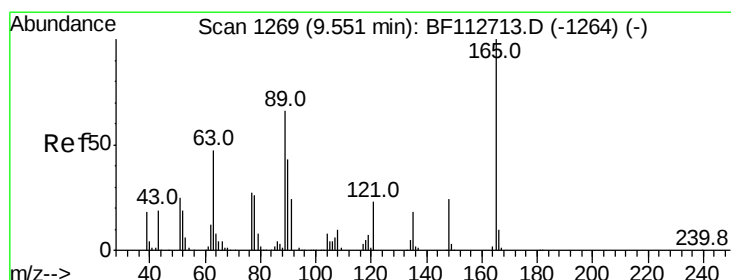
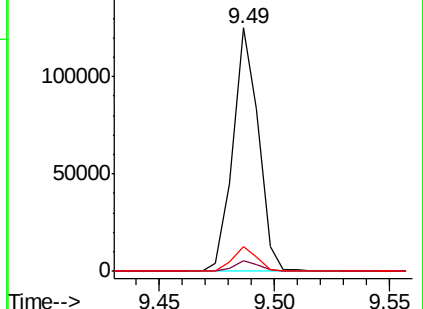
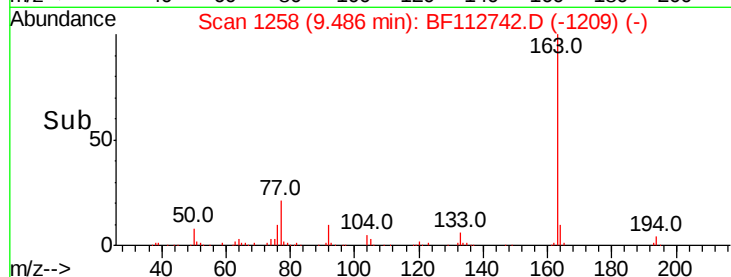
164 10.1 8.4 12.6



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



#51

2,6-Dinitrotoluene

Concen: 8.572 ng

RT: 9.77 min Scan# 1306

Delta R.T. 0.22 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

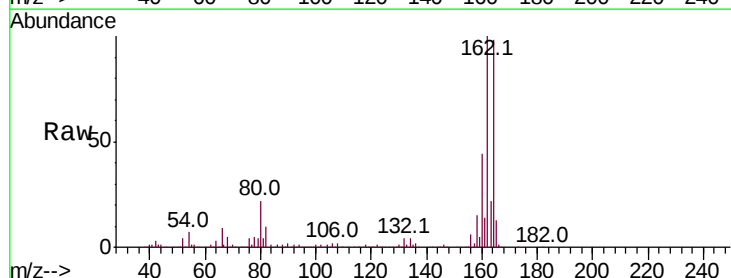
Tgt Ion:165 Resp: 40904

Ion Ratio Lower Upper

165 100

63 1.0 54.1 81.1#

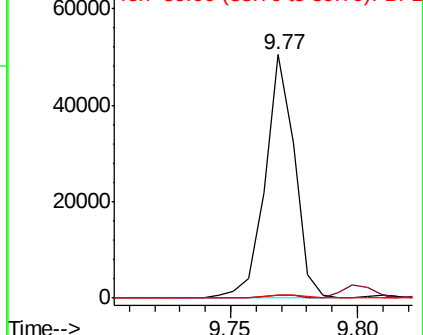
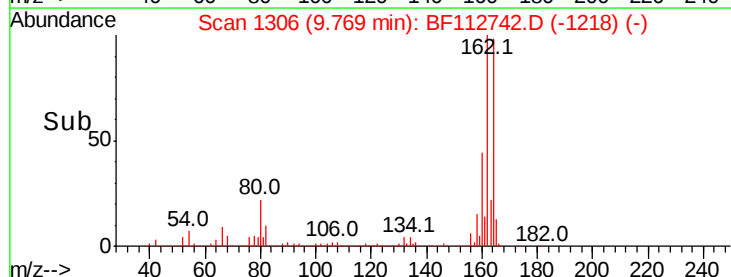
89 1.4 52.8 79.2#

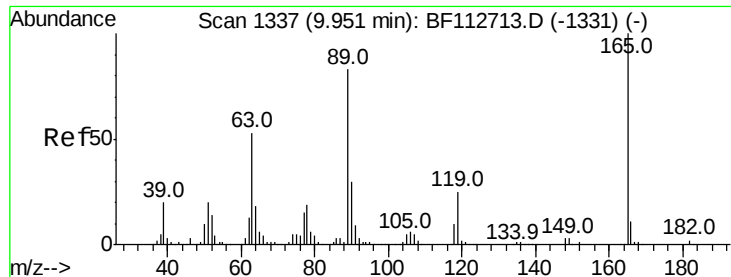


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

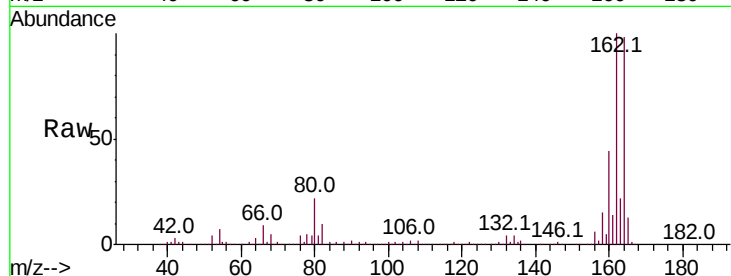




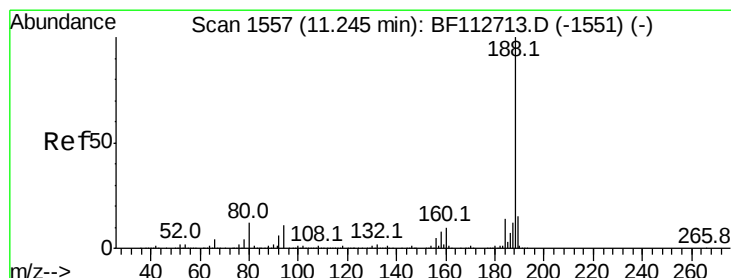
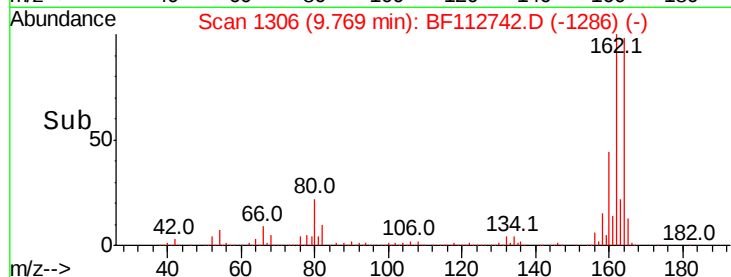
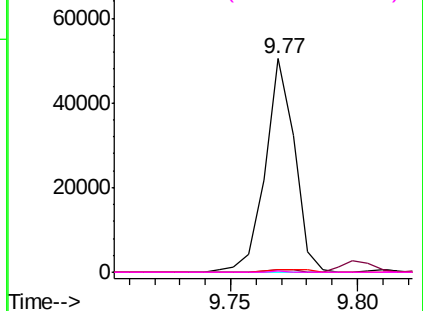
#57
 2,4-Dinitrotoluene
 Concen: 6.896 ng
 RT: 9.77 min Scan# 1306
 Delta R.T. -0.18 min
 Lab File: BF112742.D
 Acq: 28 Feb 2019 2:11

Instrument :
 BNA_F
 ClientSampleId :
 COMP-13

Tot Ion:	165	Resp:	40904
Ion	Ratio	Lower	Upper
165	100		
63	1.0	42.2	63.2#
89	1.4	66.2	99.4#
182	0.6	1.8	2.6#

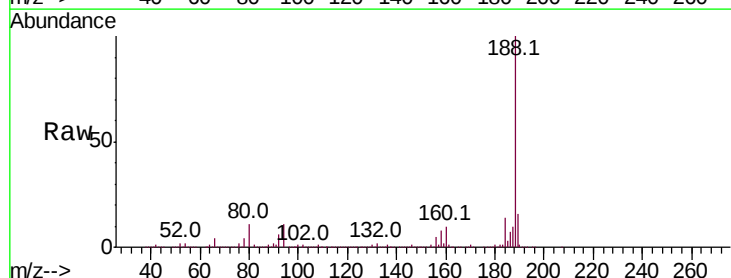


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF1
 Ion 89.00 (88.70 to 89.70): BF1
 Ion 182.00 (181.70 to 182.70): E

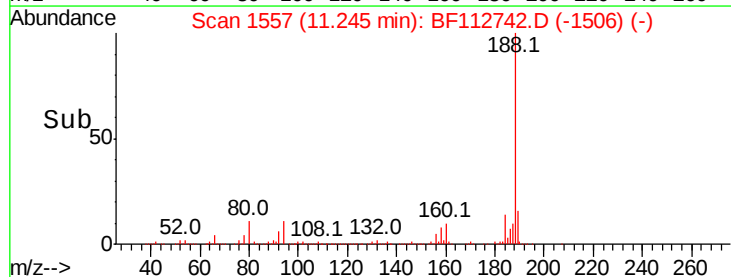
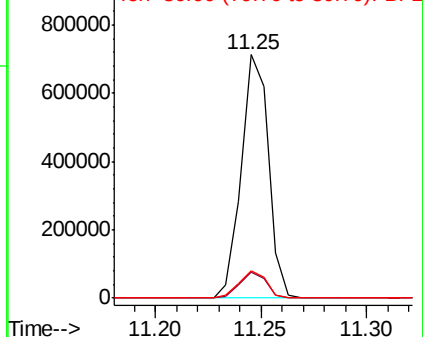


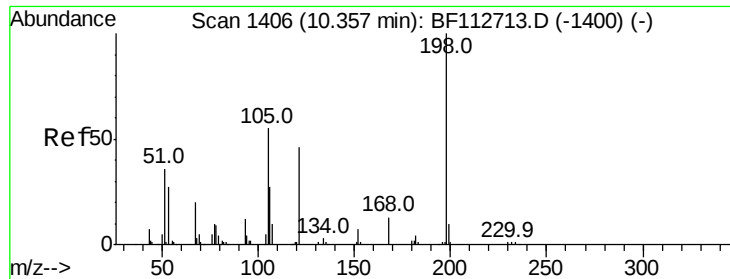
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. 0.00 min
 Lab File: BF112742.D
 Acq: 28 Feb 2019 2:11

Tgt Ion:	188	Resp:	634564
Ion	Ratio	Lower	Upper
188	100		
94	10.8	9.0	13.4
80	11.4	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: 4.827 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.20 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

Instrument :

BNA_F

ClientSampleId :

COMP-13

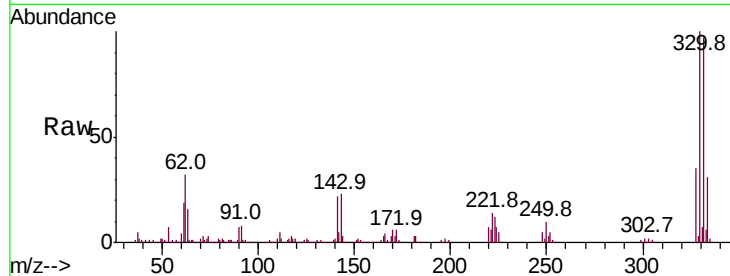
Tot Ion:198 Resp: 617

Ion Ratio Lower Upper

198 100

51 230.6 43.8 83.8#

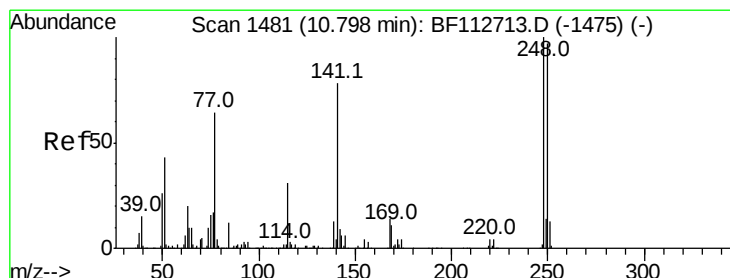
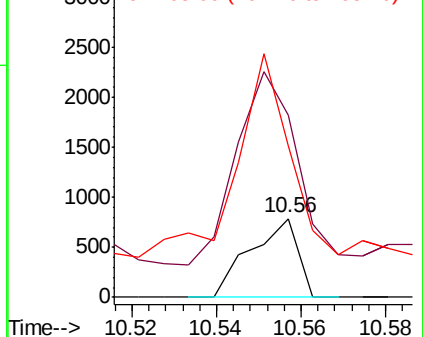
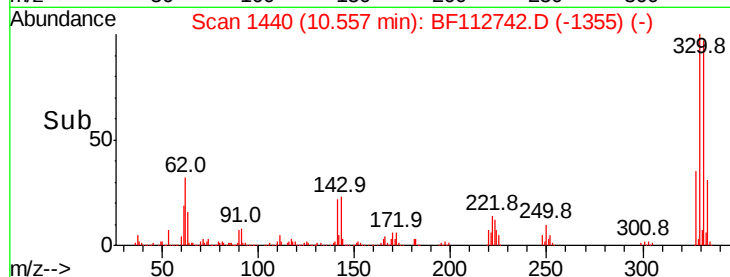
105 191.6 36.5 76.5#



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: 3.003 ng

RT: 10.55 min Scan# 1439

Delta R.T. -0.25 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

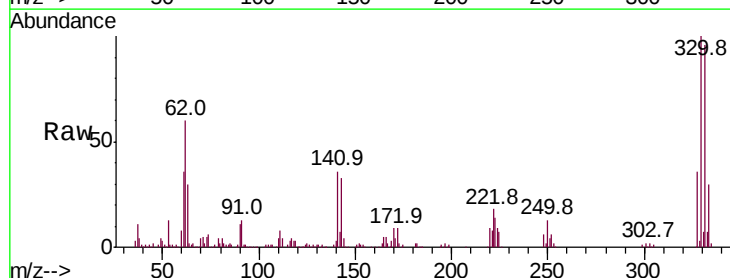
Tgt Ion:248 Resp: 20070

Ion Ratio Lower Upper

248 100

250 206.2 77.5 116.3#

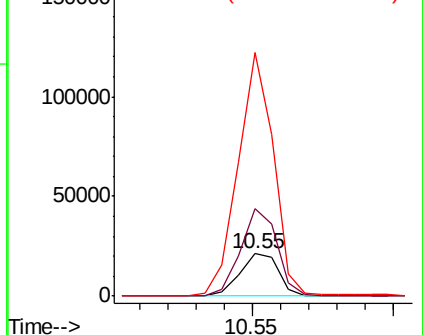
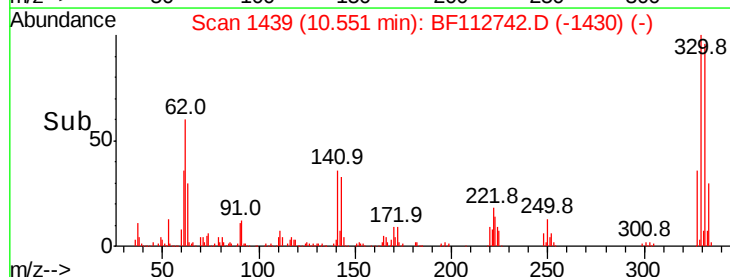
141 576.5 62.4 93.6#

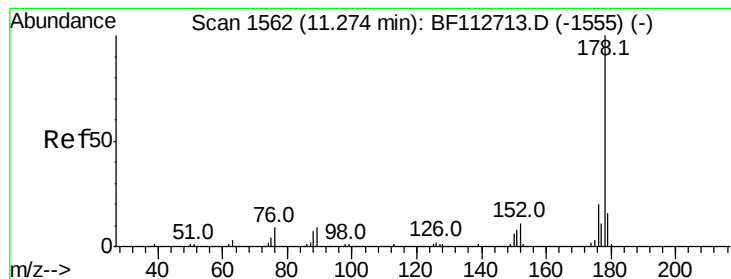


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#71

Phenanthrene

Concen: 11.826 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

Instrument :

BNA_F

ClientSampleId :

COMP-13

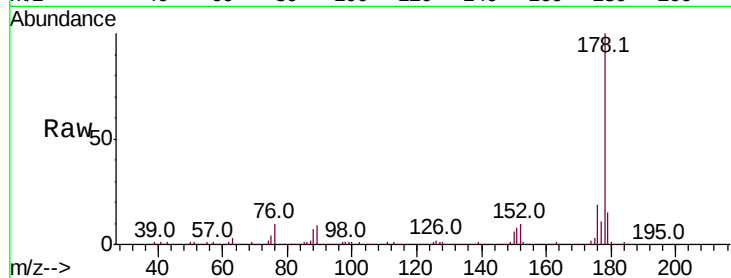
Tot Ion:178 Resp: 373367

Ion Ratio Lower Upper

178 100

176 19.2 16.3 24.5

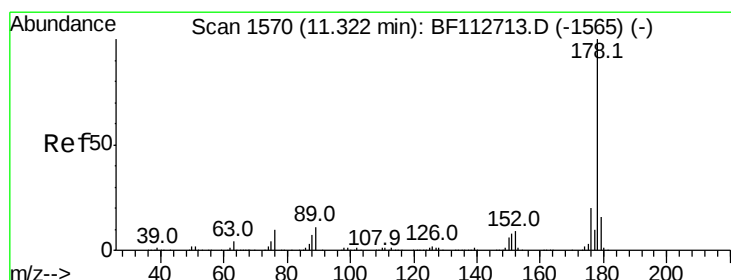
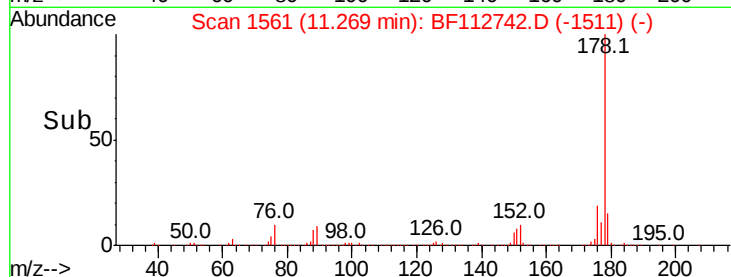
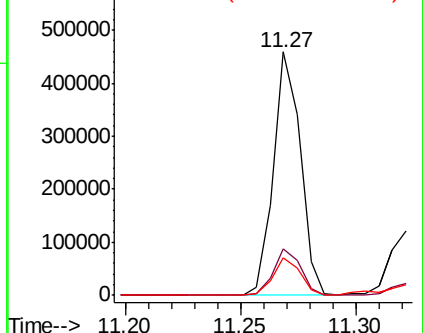
179 15.4 12.7 19.1



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: 2.926 ng

RT: 11.32 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

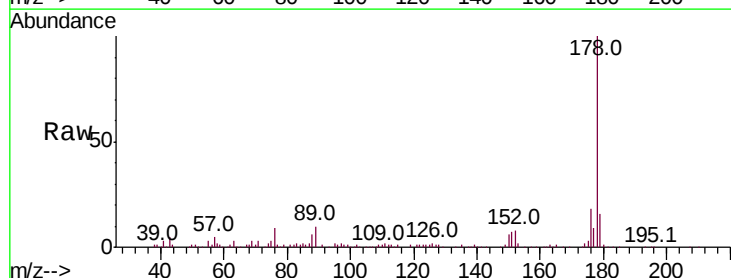
Tgt Ion:178 Resp: 96705

Ion Ratio Lower Upper

178 100

176 18.0 15.8 23.6

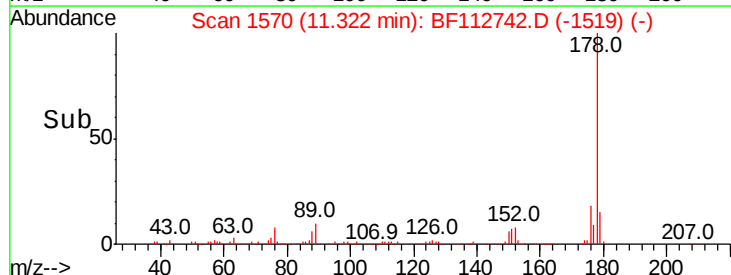
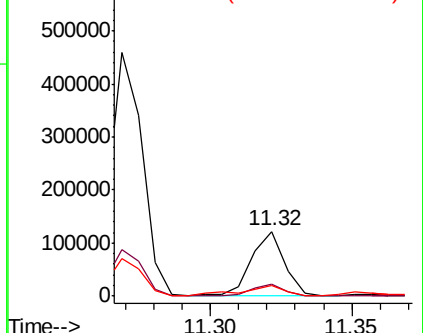
179 15.6 13.0 19.6

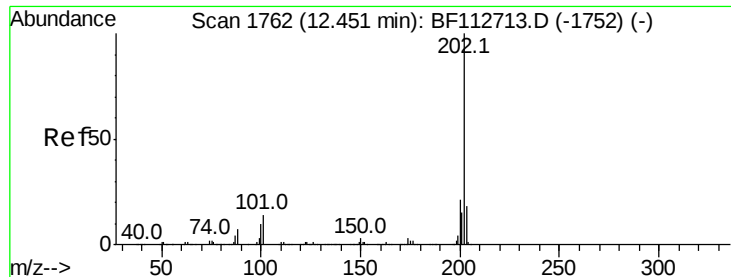


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 14.926 ng

RT: 12.45 min Scan# 1762

Delta R.T. 0.00 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

Instrument :

BNA_F

ClientSampleId :

COMP-13

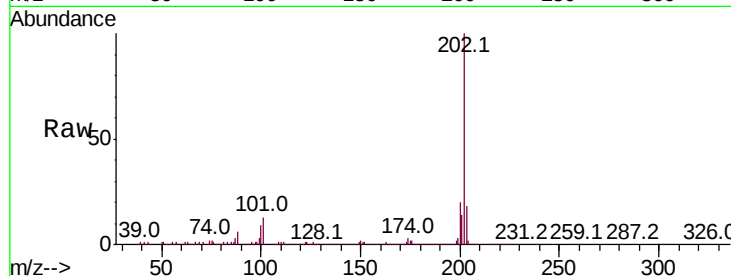
Tot Ion:202 Resp: 504874

Ion Ratio Lower Upper

202 100

101 13.5 0.0 33.8

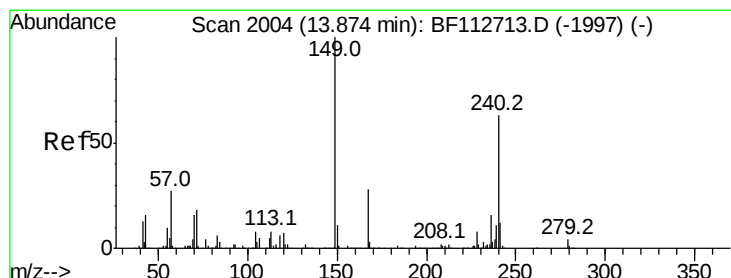
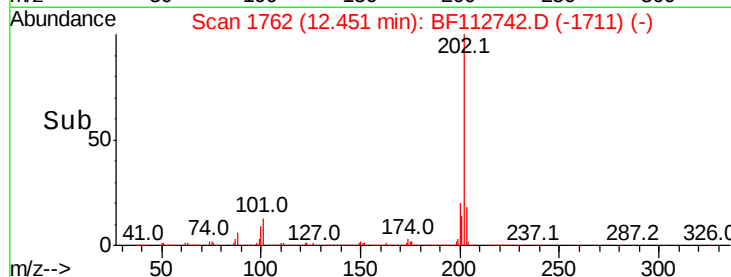
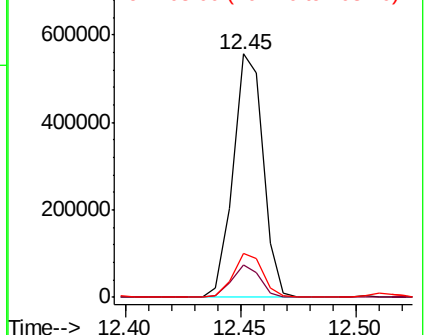
203 18.1 0.0 38.4



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# 2004

Delta R.T. 0.00 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

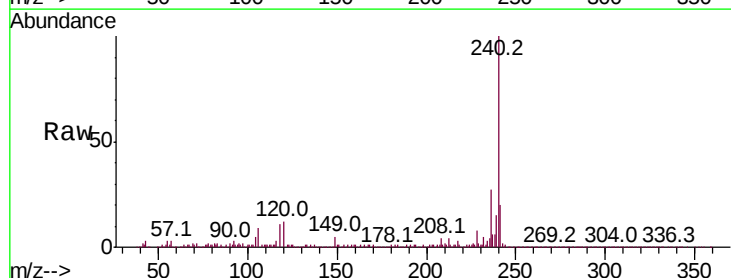
Tgt Ion:240 Resp: 491716

Ion Ratio Lower Upper

240 100

120 12.4 8.9 13.3

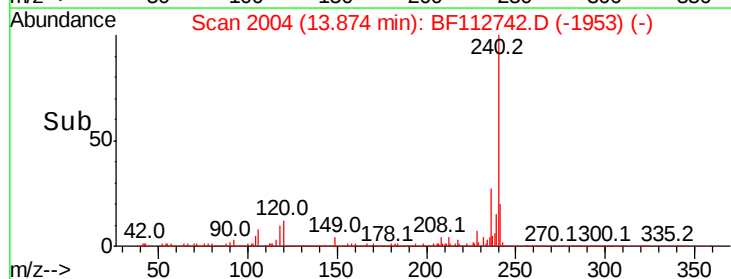
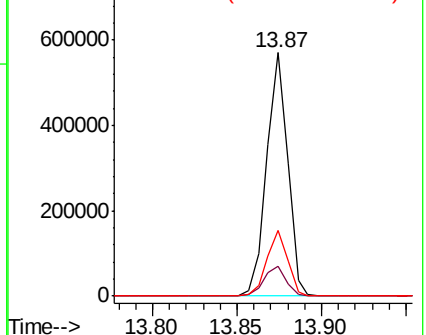
236 26.8 20.7 31.1

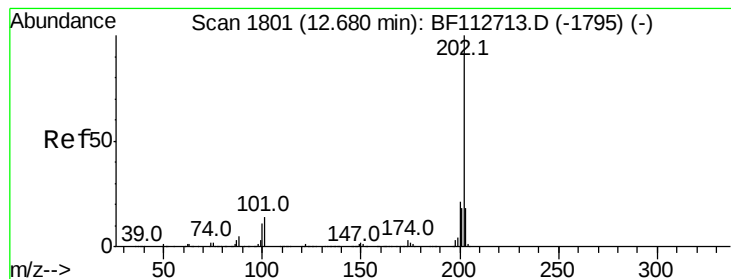


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 10.996 ng

RT: 12.68 min Scan# 1801

Delta R.T. 0.00 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

Instrument :

BNA_F

ClientSampleId :

COMP-13

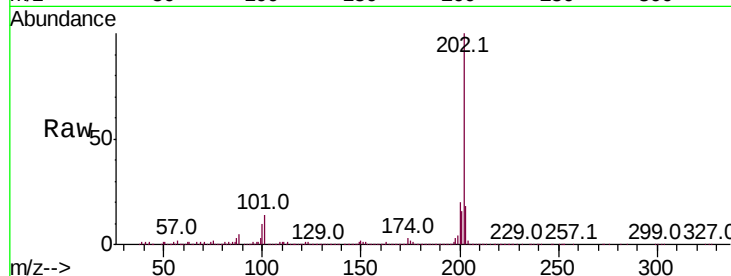
Tot Ion:202 Resp: 455816

Ion Ratio Lower Upper

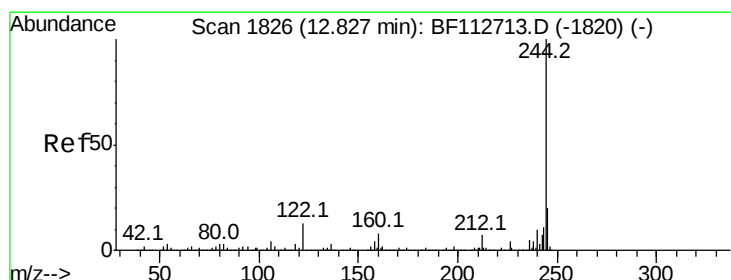
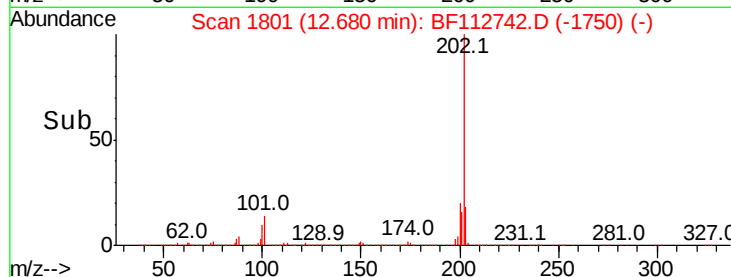
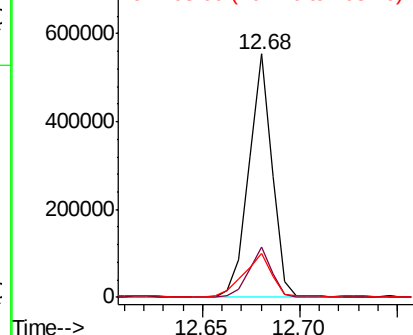
202 100

200 20.5 17.0 25.4

203 18.2 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: 50.105 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF112742.D

Acq: 28 Feb 2019 2:11

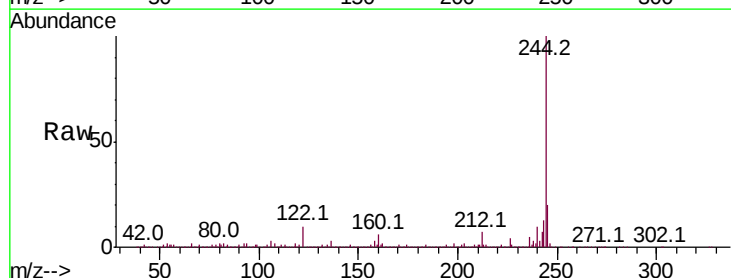
Tgt Ion:244 Resp: 1270961

Ion Ratio Lower Upper

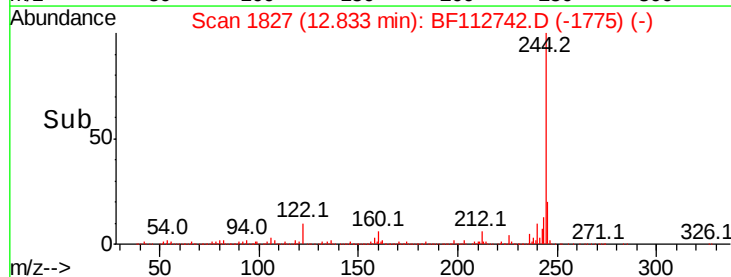
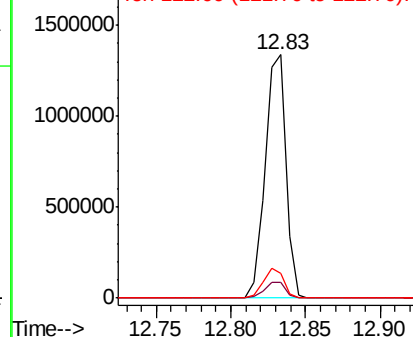
244 100

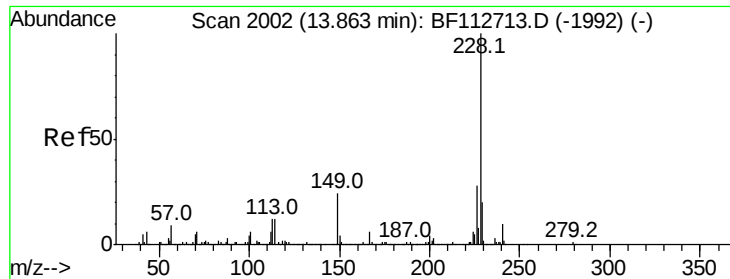
212 6.5 5.6 8.4

122 10.3 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

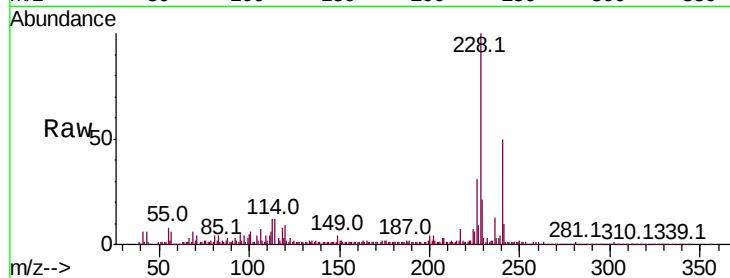




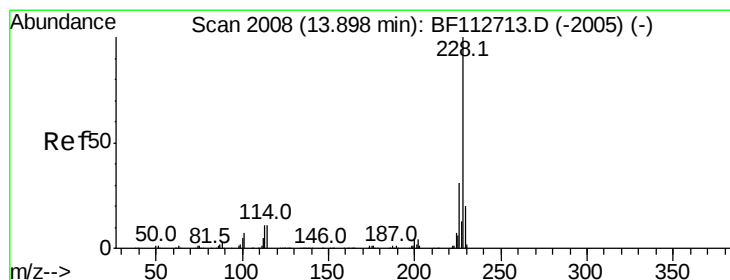
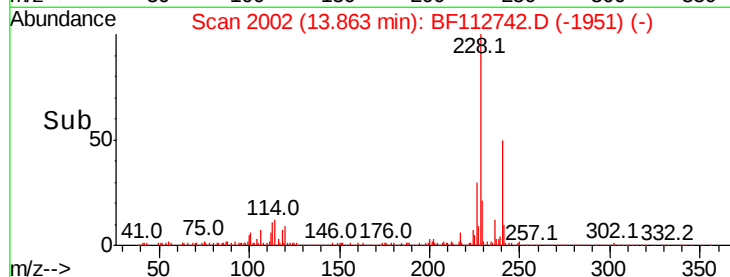
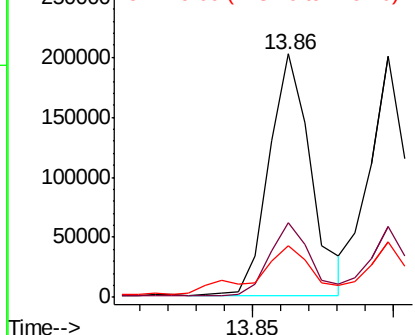
#81
Benzo(a)anthracene
Concen: 6.096 ng
RT: 13.86 min Scan# 2002
Delta R.T. 0.00 min
Lab File: BF112742.D
Acq: 28 Feb 2019 2:11

Instrument :
BNA_F
ClientSampleId :
COMP-13

Tot Ion:228 Resp: 207764
Ion Ratio Lower Upper
228 100
226 30.6 22.2 33.4
229 21.4 16.0 24.0

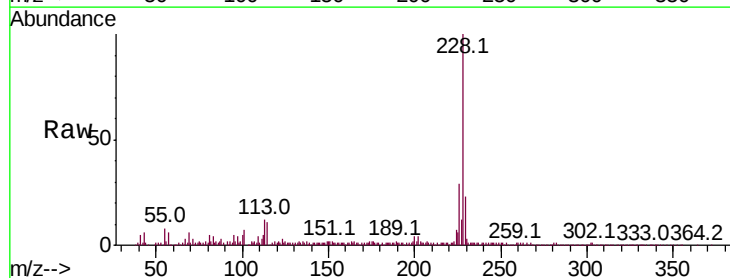


Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

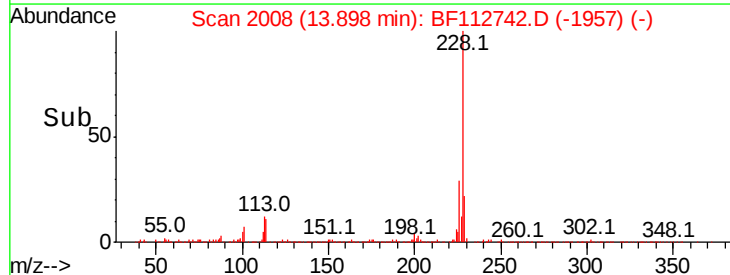
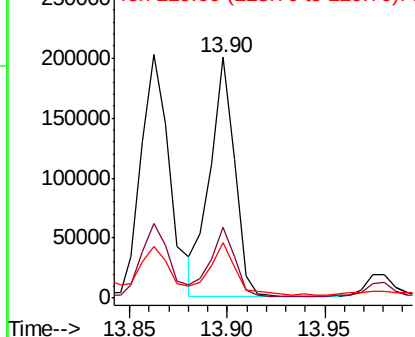


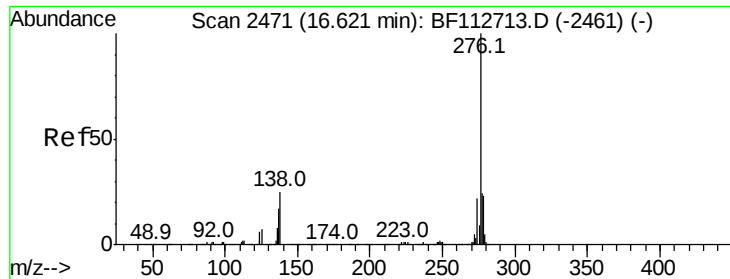
#83
Chrysene
Concen: 5.271 ng
RT: 13.90 min Scan# 2008
Delta R.T. 0.00 min
Lab File: BF112742.D
Acq: 28 Feb 2019 2:11

Tgt Ion:228 Resp: 175957
Ion Ratio Lower Upper
228 100
226 29.4 24.9 37.3
229 22.8 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

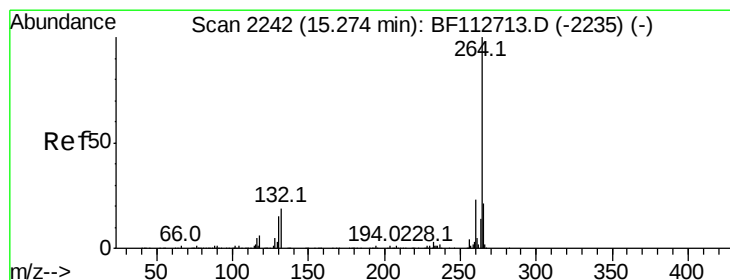
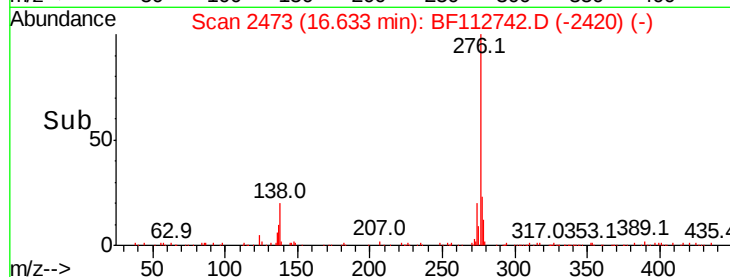
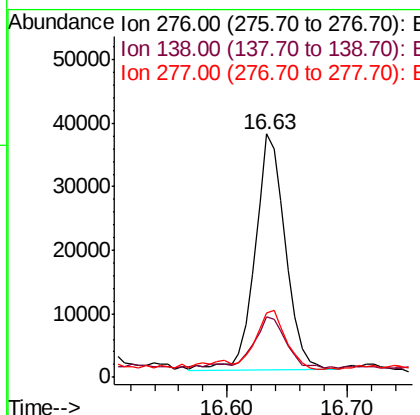
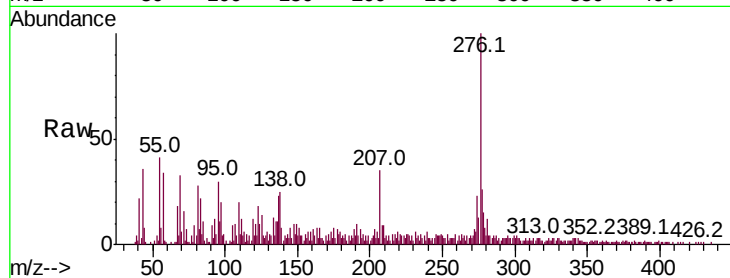




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 2.288 ng
 RT: 16.63 min Scan# 2473
 Delta R.T. 0.01 min
 Lab File: BF112742.D
 Acq: 28 Feb 2019 2:11

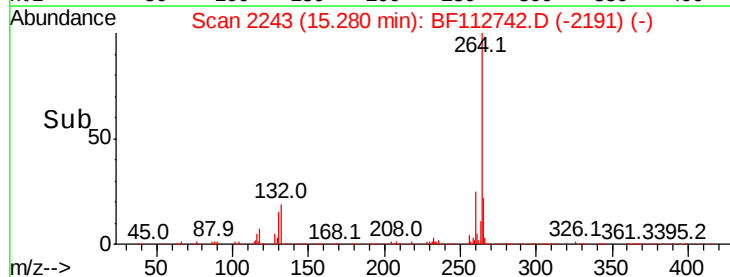
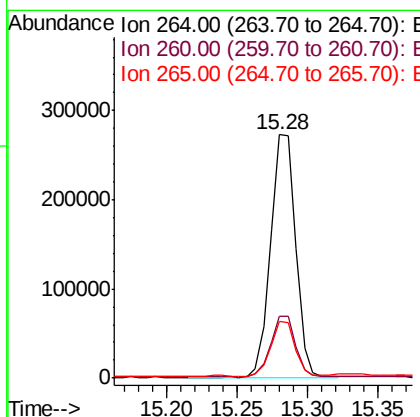
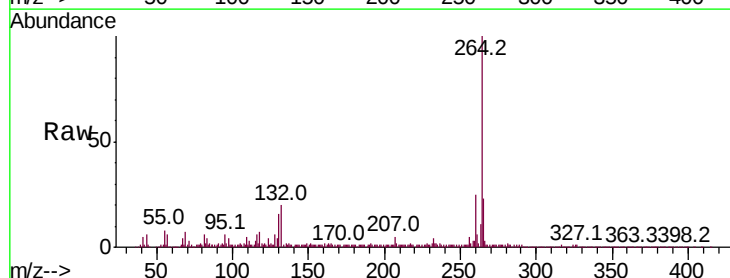
Instrument :
 BNA_F
 ClientSampleId :
 COMP-13

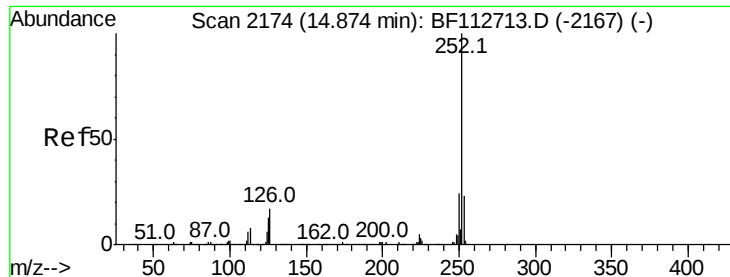
Tot Ion:276 Resp: 65102
 Ion Ratio Lower Upper
 276 100
 138 22.2 23.2 34.8#
 277 24.2 19.9 29.9



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.28 min Scan# 2243
 Delta R.T. 0.01 min
 Lab File: BF112742.D
 Acq: 28 Feb 2019 2:11

Tgt Ion:264 Resp: 339557
 Ion Ratio Lower Upper
 264 100
 260 25.5 18.7 28.1
 265 23.2 17.2 25.8

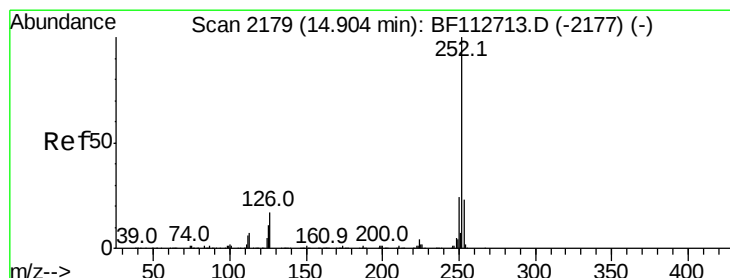
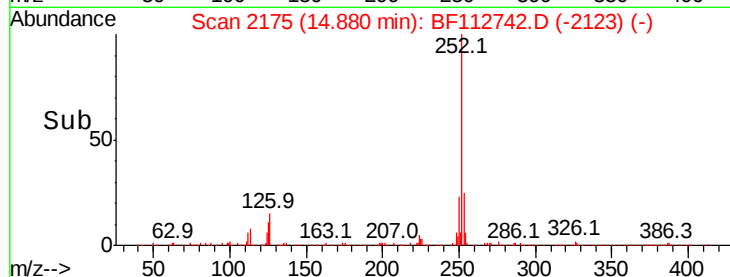
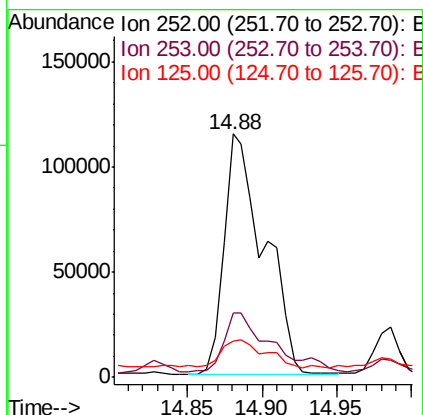
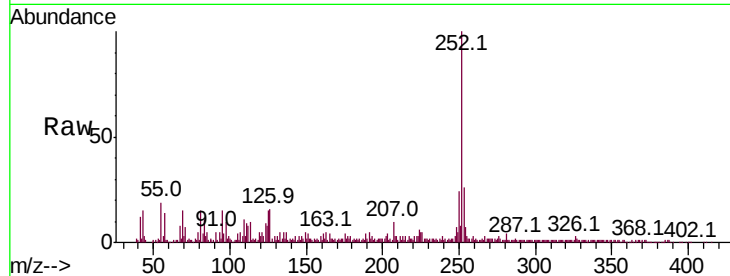




#88
Benzo(b)fluoranthene
Concen: 9.788 ng
RT: 14.88 min Scan# 2175
Delta R.T. 0.01 min
Lab File: BF112742.D
Acq: 28 Feb 2019 2:11

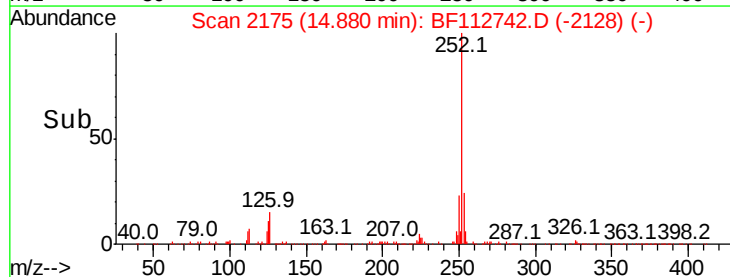
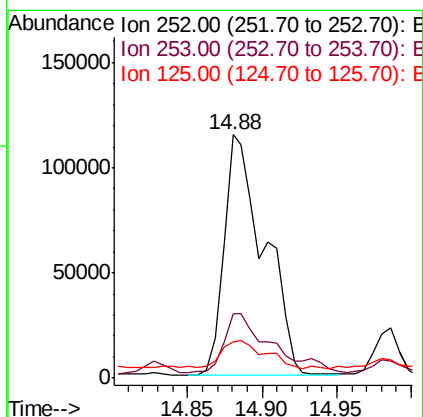
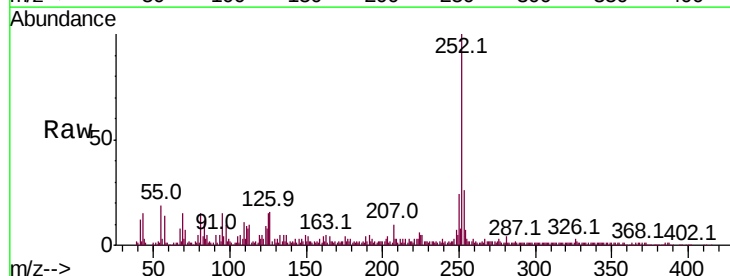
Instrument :
BNA_F
ClientSampleId :
COMP-13

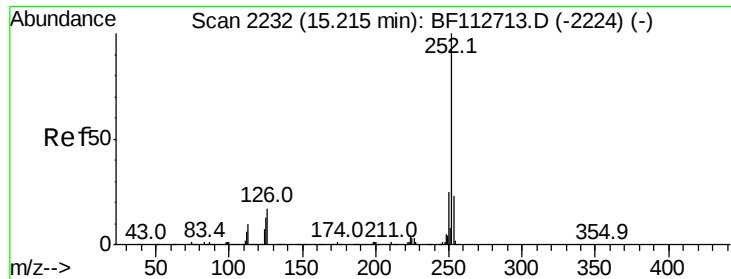
Tot Ion	Ratio	Lower	Upper
252	100		
253	26.4	18.0	27.0
125	15.0	10.2	15.2



#89
Benzo(k)fluoranthene
Concen: 10.806 ng
RT: 14.88 min Scan# 2175
Delta R.T. -0.02 min
Lab File: BF112742.D
Acq: 28 Feb 2019 2:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.4	18.2	27.2
125	15.0	9.8	14.6#

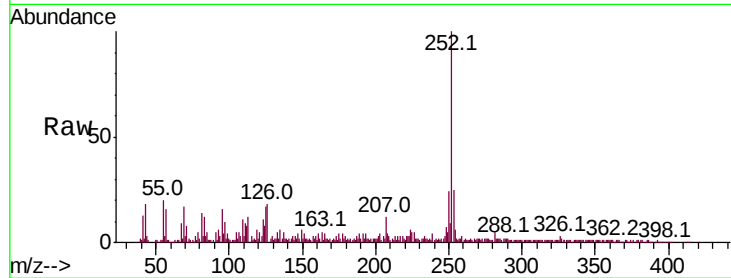




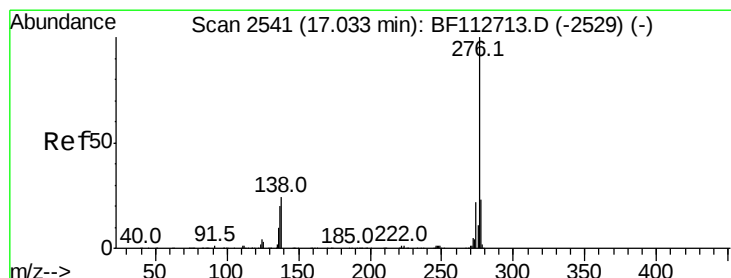
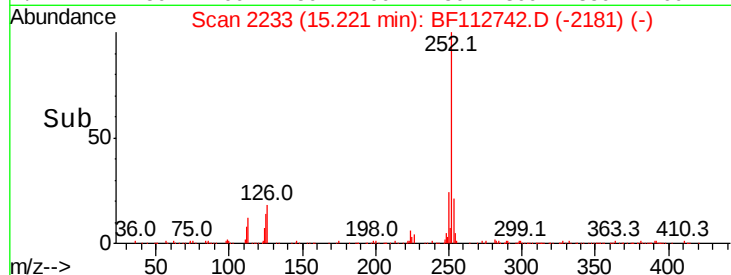
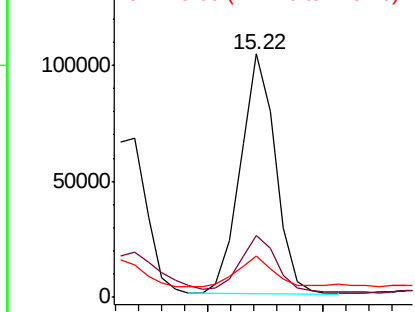
#90
Benzo(a)pyrene
Concen: 5.634 ng
RT: 15.22 min Scan# 2233
Delta R.T. 0.01 min
Lab File: BF112742.D
Acq: 28 Feb 2019 2:11

Instrument :
BNA_F
ClientSampleId :
COMP-13

Tot Ion	Ratio	Lower	Upper
252	100		
253	25.5	18.0	27.0
125	17.2	10.7	16.1

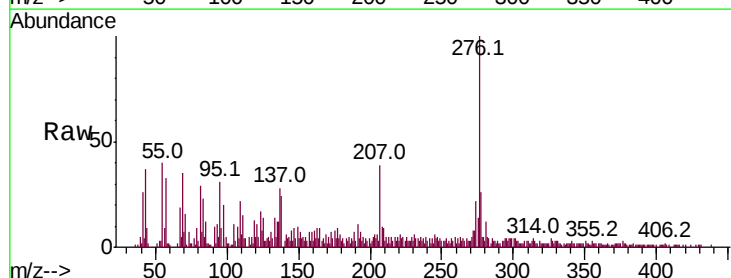


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#92
Benzo(g,h,i)perylene
Concen: 3.751 ng
RT: 17.04 min Scan# 2543
Delta R.T. 0.01 min
Lab File: BF112742.D
Acq: 28 Feb 2019 2:11

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.0	18.6	27.8
138	24.1	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

