

Data Path : Z:\HPCHEM1\BNA F\DATA\BF091517\
 Data File : BF098583.D
 Acq On : 15 Sep 2017 21:57
 Operator : SJ/JU
 Sample : I5236-01 5X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-04-091317

Quant Time: Sep 16 01:52:02 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 02:14:50 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	130278	20.00	ng	-0.03
21) Naphthalene-d8	7.93	136	542954	20.00	ng	-0.02
38) Acenaphthene-d10	9.68	164	229533	20.00	ng	-0.02
63) Phenanthrene-d10	11.16	188	410542	20.00	ng	-0.02
75) Chrysene-d12	13.80	240	279844	20.00	ng	-0.02
86) Perylene-d12	15.20	264	266729	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.25	112	193877	22.00	ng	-0.03
7) Phenol-d6	6.29	99	247901	22.16	ng	-0.03
23) Nitrobenzene-d5	7.21	82	142833	14.67	ng	-0.03
41) 2,4,6-Tribromophenol	10.47	330	38364	25.04	ng	-0.02
44) 2-Fluorobiphenyl	9.00	172	241951	17.87	ng	-0.03
78) Terphenyl-d14	12.74	244	197899	15.26	ng	-0.02

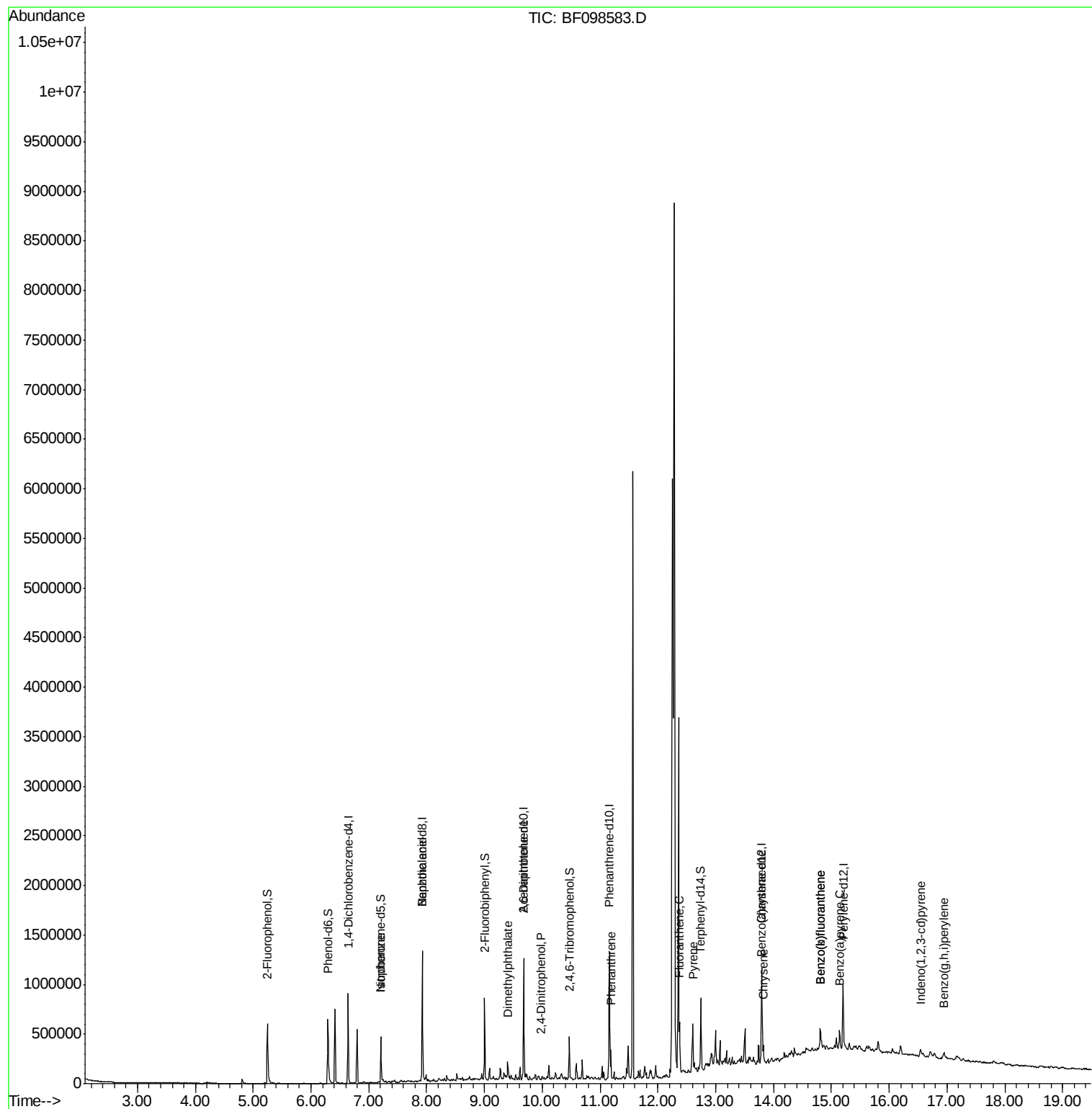
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.21	82	139366	7.073	ng	# 68
32) Benzoic acid	7.93	122	121	7.987	ng	# 1
49) Dimethylphthalate	9.40	163	42090	2.369	ng	98
50) 2,6-Dinitrotoluene	9.68	165	29860	8.182	ng	# 33
53) 2,4-Dinitrophenol	9.97	184	115	8.584	ng	# 4
70) Phenanthrene	11.19	178	105800	4.861	ng	98
74) Fluoranthene	12.37	202	180446	8.282	ng	97
77) Pyrene	12.60	202	192968	8.741	ng	96
80) Benzo(a)anthracene	13.79	228	74362	4.532	ng	98
82) Chrysene	13.83	228	76386	4.606	ng	95
85) Indeno(1,2,3-cd)pyrene	16.54	276	39301	3.378	ng	# 88
87) Benzo(b)fluoranthene	14.81	252	128831	7.682	ng	# 95
88) Benzo(k)fluoranthene	14.81	252	128831	8.228	ng	98
89) Benzo(a)pyrene	15.14	252	72939	4.882	ng	97
91) Benzo(a,h,i)perylene	16.94	276	39596	3.622	ng	95

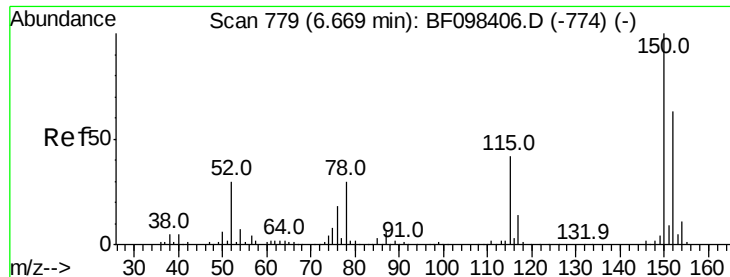
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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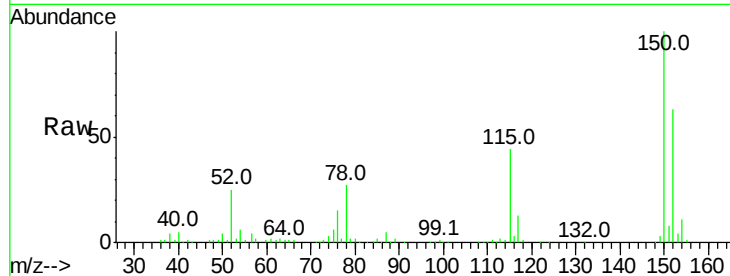


#1

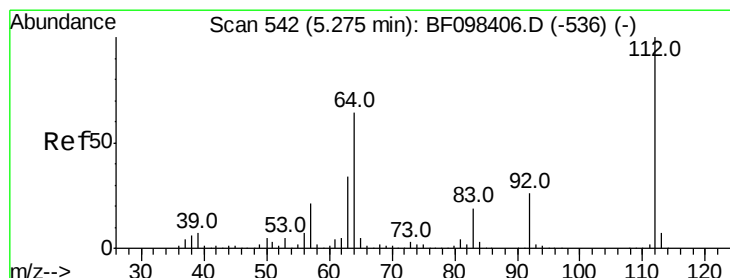
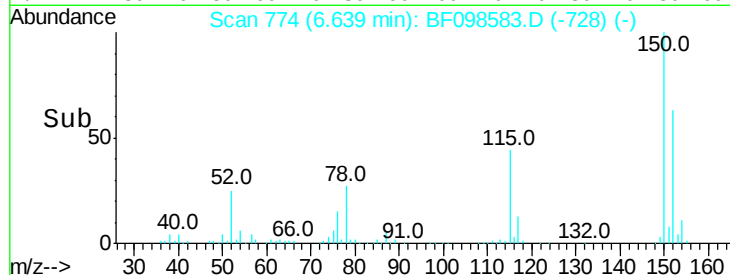
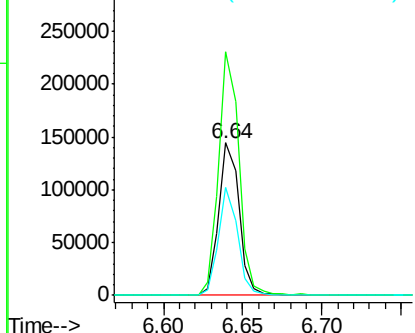
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.64 min Scan# 774
 Delta R.T. -0.03 min
 Lab File: BF098583.D
 Acq: 15 Sep 2017 21:57

Instrument :
 BNA_F
 ClientSampleId :
 TR-04-091317

Tot Ion:152 Resp: 130278
 Ion Ratio Lower Upper
 152 100
 150 159.5 126.2 189.2
 115 70.7 52.2 78.2



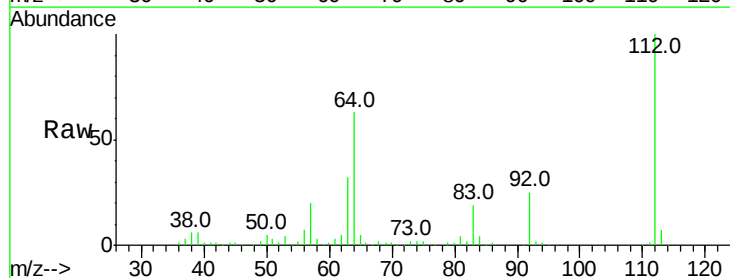
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



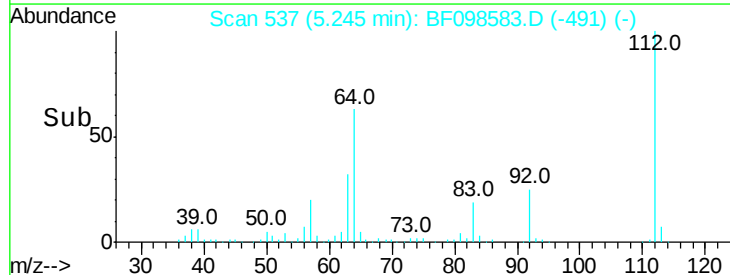
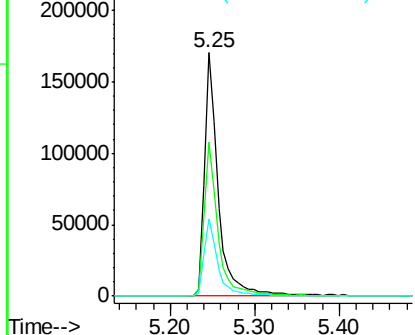
#5

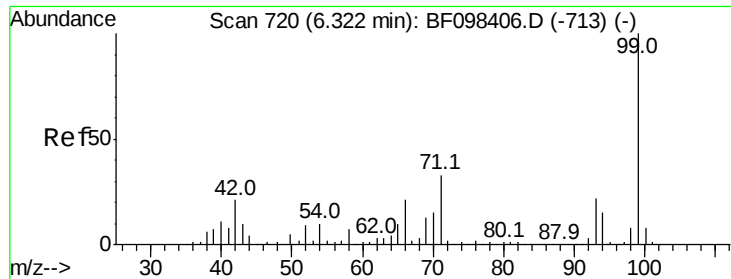
2-Fluorophenol
 Concen: 22.003 ng
 RT: 5.25 min Scan# 537
 Delta R.T. -0.03 min
 Lab File: BF098583.D
 Acq: 15 Sep 2017 21:57

Tgt Ion:112 Resp: 193877
 Ion Ratio Lower Upper
 112 100
 64 63.3 46.0 69.0
 63 31.7 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 22.159 ng

RT: 6.29 min Scan# 715

Delta R.T. -0.03 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Instrument :

BNA_F

ClientSampleId :

TR-04-091317

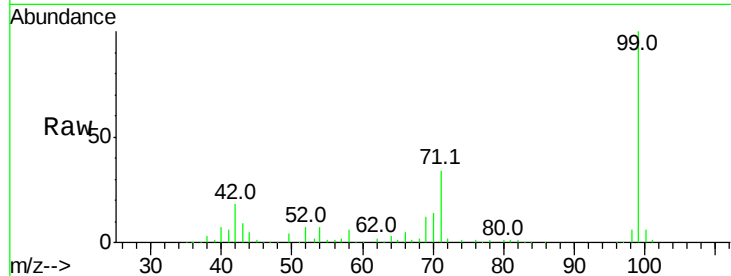
Tot Ion: 99 Resp: 247901

Ion Ratio Lower Upper

99 100

42 17.8 13.5 20.3

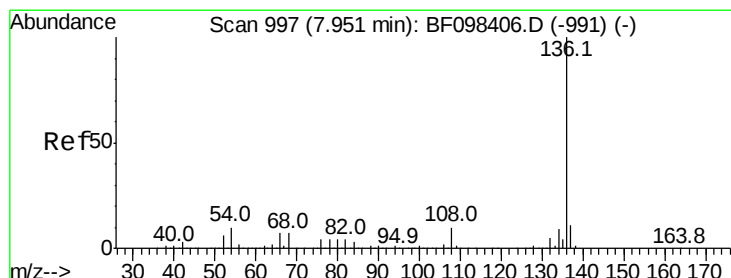
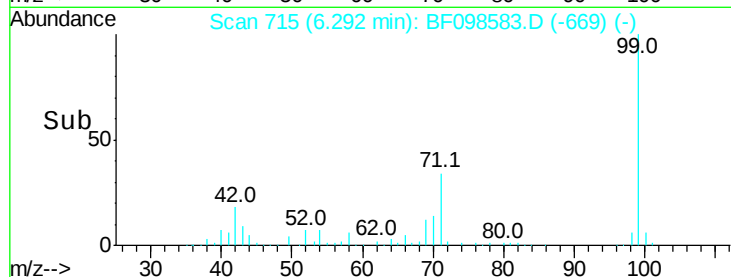
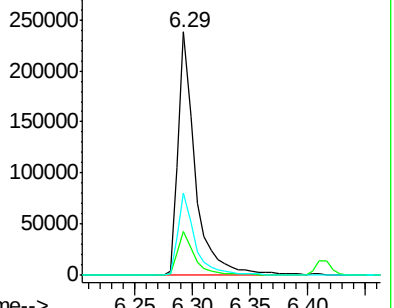
71 33.6 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.93 min Scan# 993

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Tgt Ion: 136 Resp: 542954

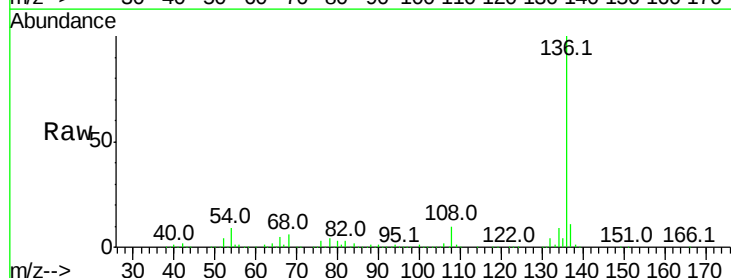
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 8.5 4.9 7.3#

68 5.6 4.1 6.1

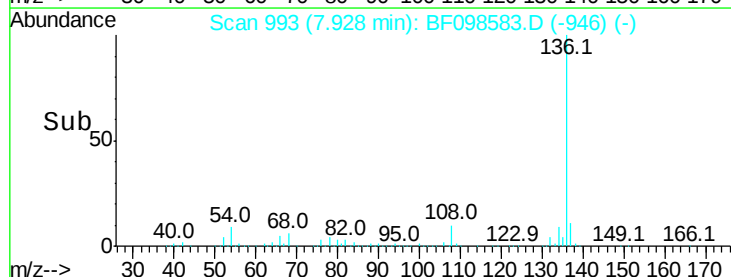
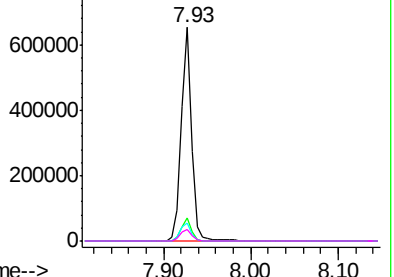


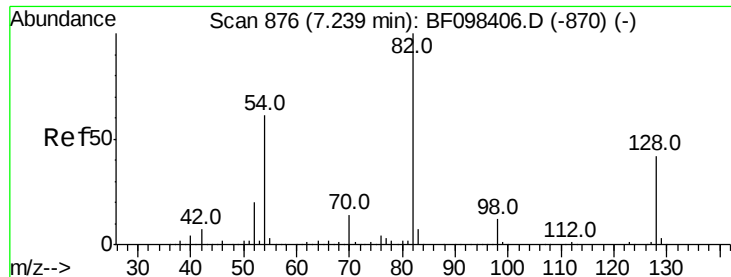
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 14.666 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.03 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Instrument :

BNA_F

ClientSampleId :

TR-04-091317

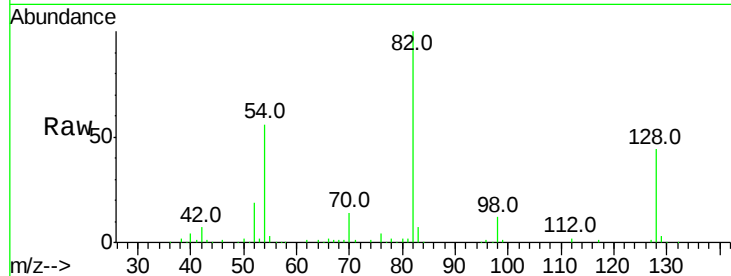
Tot Ion: 82 Resp: 142833

Ion Ratio Lower Upper

82 100

128 44.0 34.0 51.0

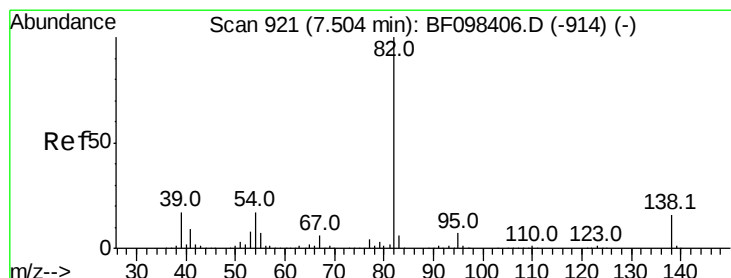
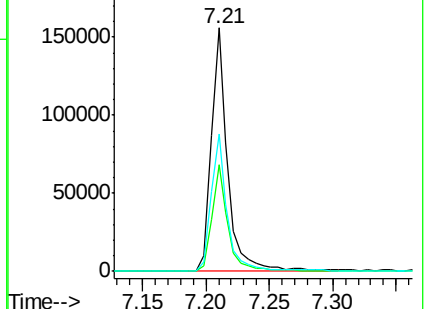
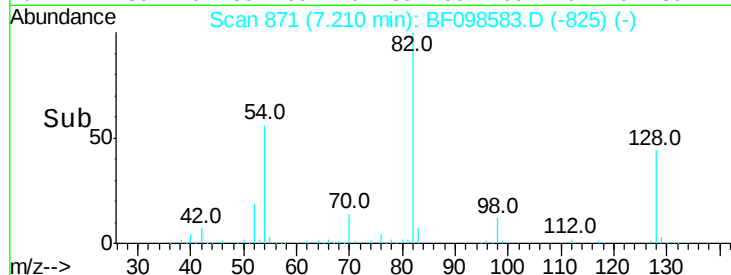
54 56.5 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 7.073 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.29 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

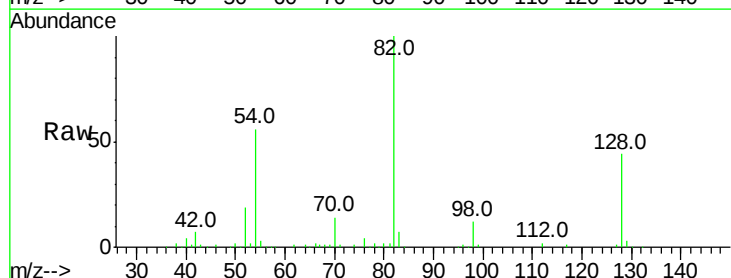
Tgt Ion: 82 Resp: 139366

Ion Ratio Lower Upper

82 100

95 0.5 5.3 7.9#

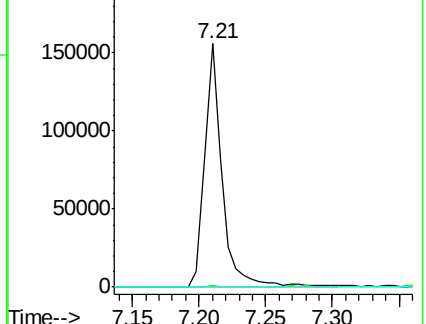
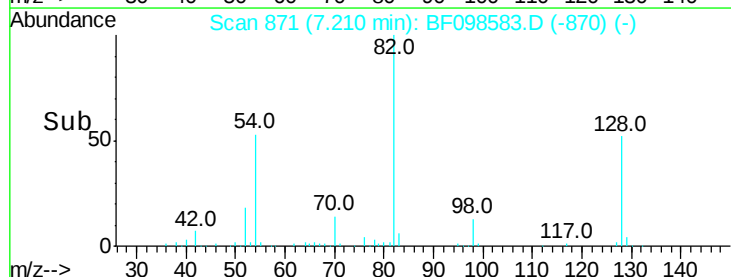
138 0.0 13.1 19.7#

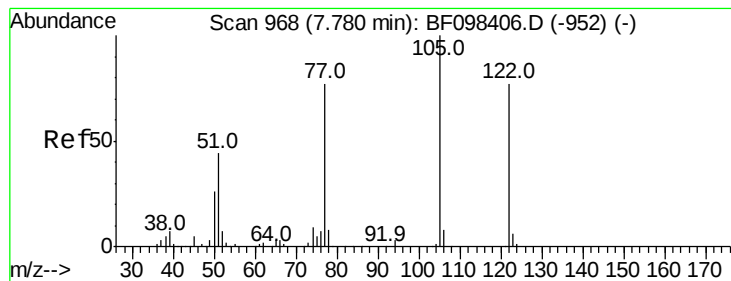


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#32

Benzoic acid

Concen: 7.987 ng

RT: 7.93 min Scan# 993

Delta R.T. 0.15 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Instrument :

BNA_F

ClientSampleId :

TR-04-091317

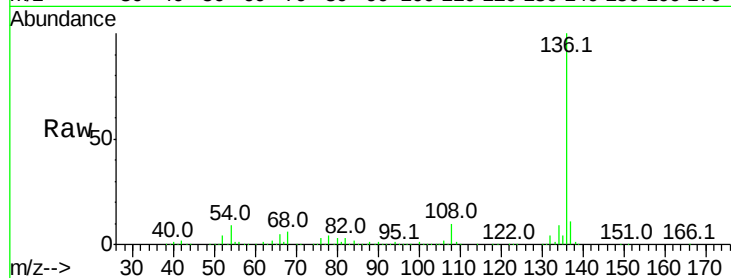
Tot Ion:122 Resp: 121

Ion Ratio Lower Upper

122 100

105 170.8 103.3 143.3#

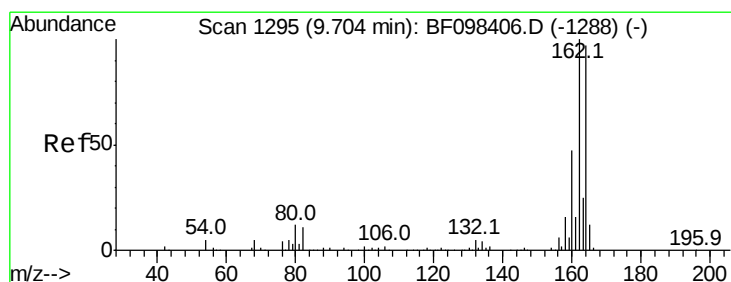
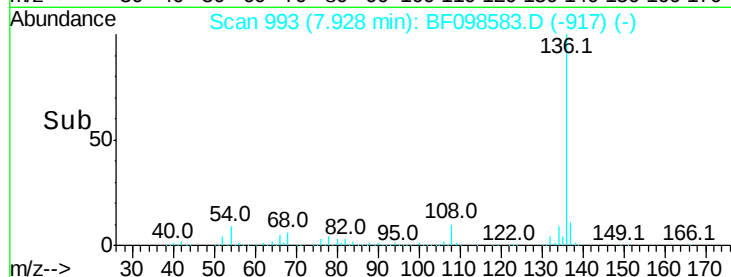
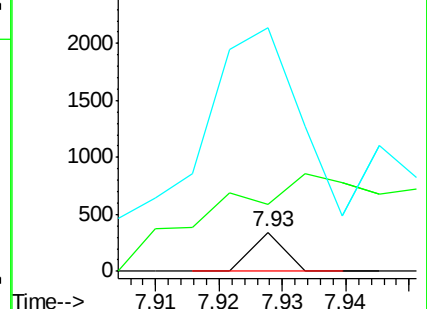
77 624.9 73.7 113.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.68 min Scan# 1291

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

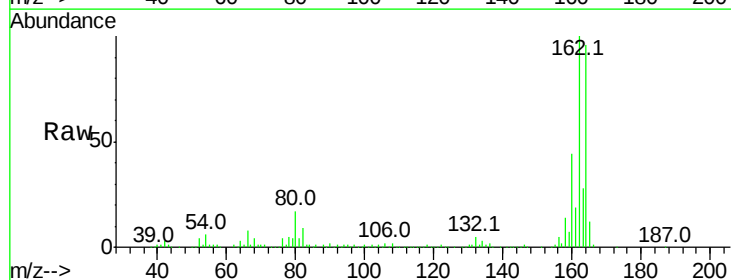
Tgt Ion:164 Resp: 229533

Ion Ratio Lower Upper

164 100

162 104.2 82.6 123.8

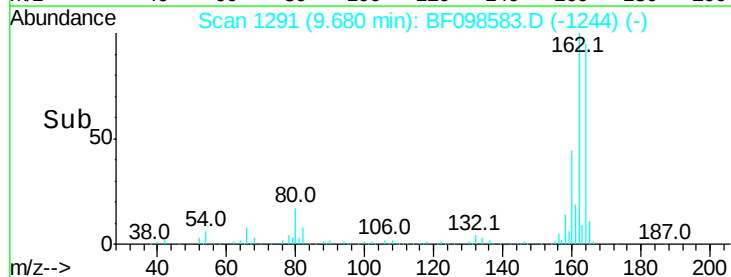
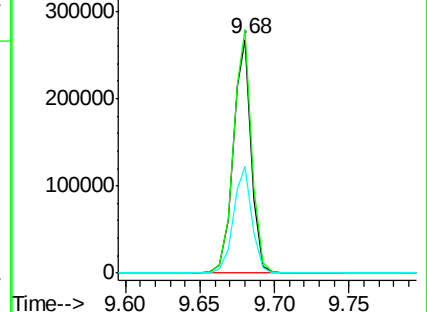
160 45.8 36.2 54.2

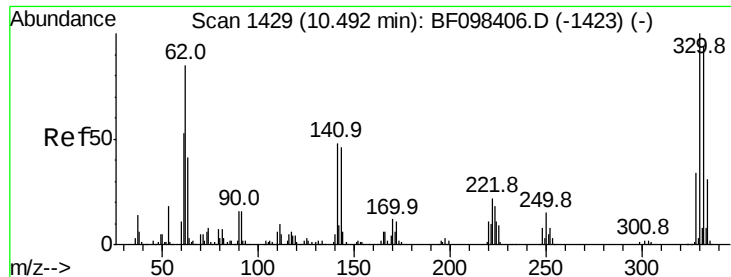


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

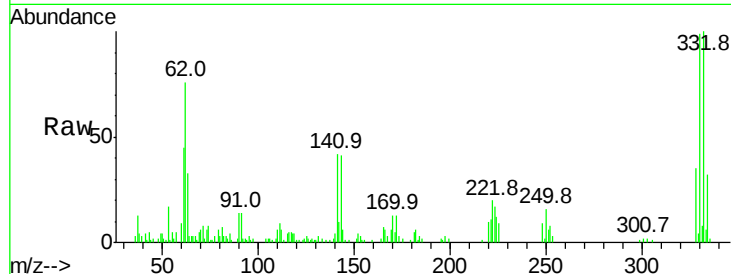




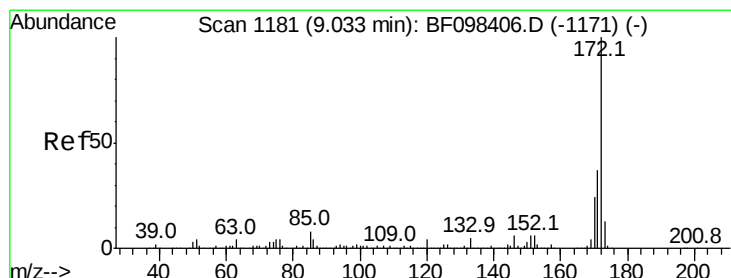
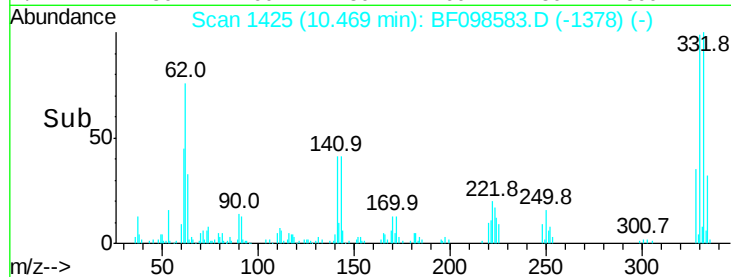
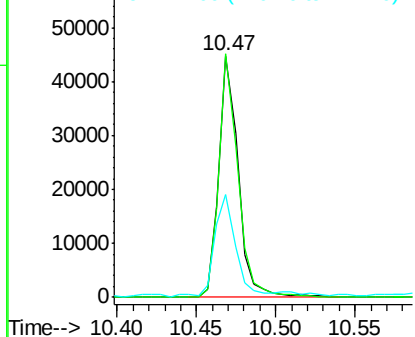
#41
 2,4,6-Tribromophenol
 Concen: 25.043 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.02 min
 Lab File: BF098583.D
 Acq: 15 Sep 2017 21:57

Instrument :
 BNA_F
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 TR-04-091317

Tot Ion:330 Resp: 38364
 Ion Ratio Lower Upper
 330 100
 332 98.1 76.6 115.0
 141 46.9 31.4 47.2

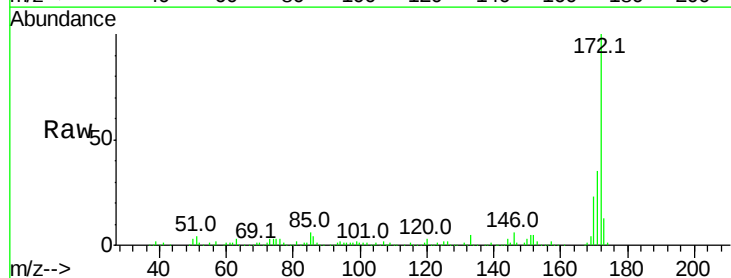


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

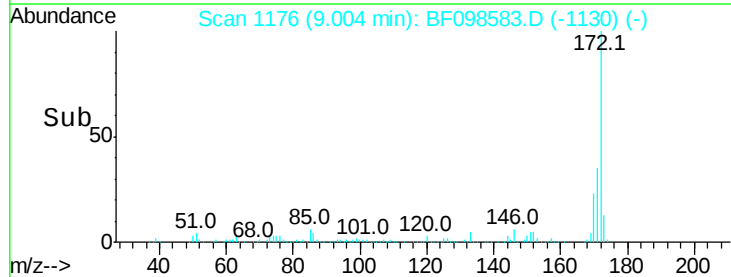
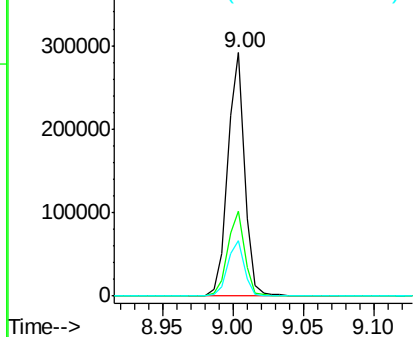


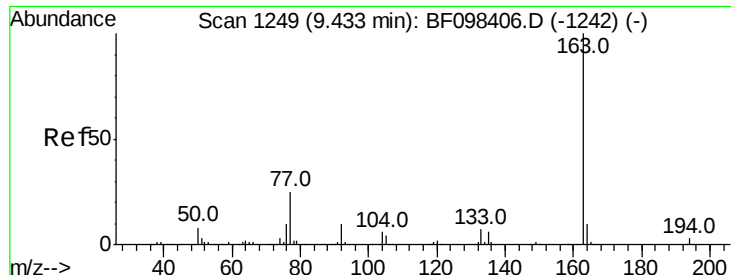
#44
 2-Fluorobiphenyl
 Concen: 17.866 ng
 RT: 9.00 min Scan# 1176
 Delta R.T. -0.03 min
 Lab File: BF098583.D
 Acq: 15 Sep 2017 21:57

Tgt Ion:172 Resp: 241951
 Ion Ratio Lower Upper
 172 100
 171 34.7 29.6 44.4
 170 22.6 19.8 29.8



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





#49

Dimethylphthalate

Concen: 2.369 ng

RT: 9.40 min Scan# 1244

Delta R.T. -0.03 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Instrument :

BNA_F

ClientSampleId :

TR-04-091317

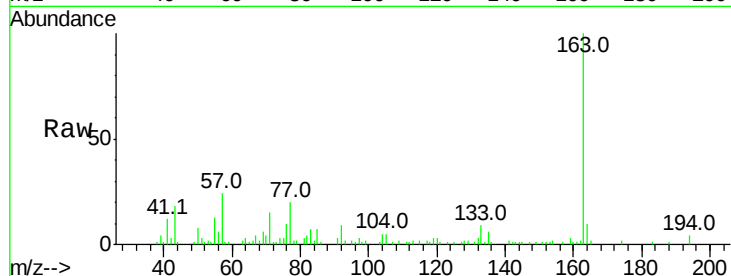
Tot Ion:163 Resp: 42090

Ion Ratio Lower Upper

163 100

194 3.9 2.6 4.0

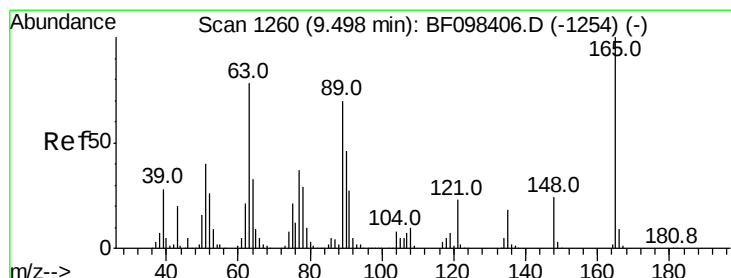
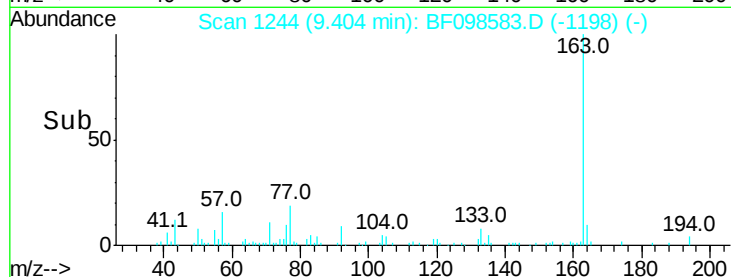
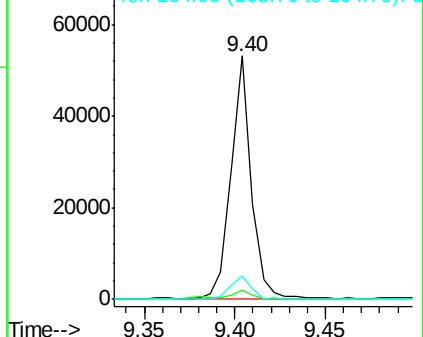
164 9.5 8.4 12.6



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



#50

2,6-Dinitrotoluene

Concen: 8.182 ng

RT: 9.68 min Scan# 1291

Delta R.T. 0.18 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

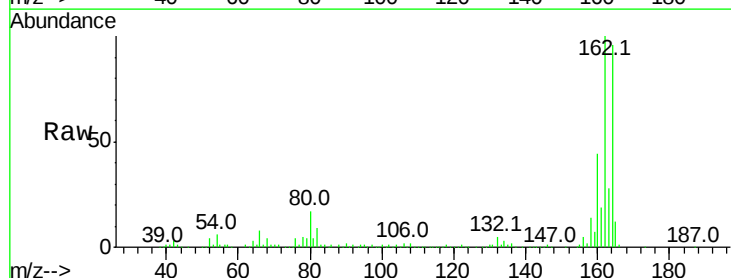
Tgt Ion:165 Resp: 29860

Ion Ratio Lower Upper

165 100

63 1.6 34.3 51.5#

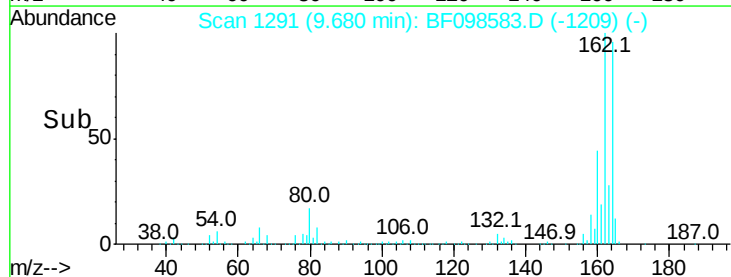
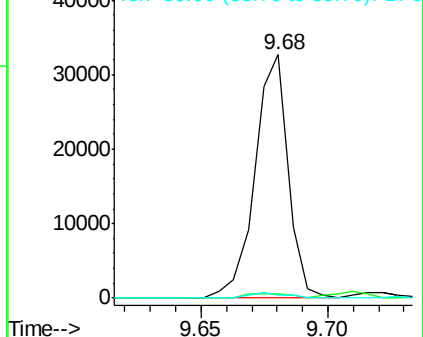
89 1.1 37.1 55.7#

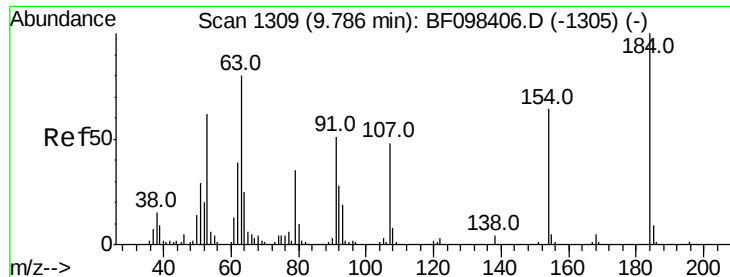


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

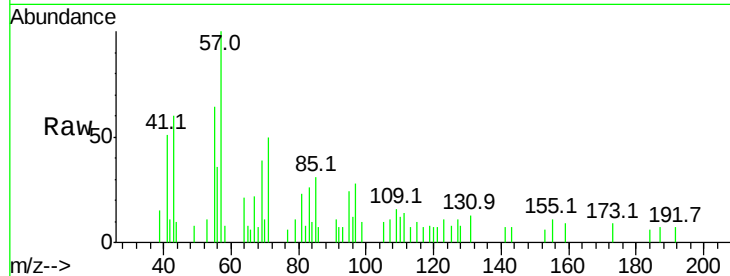




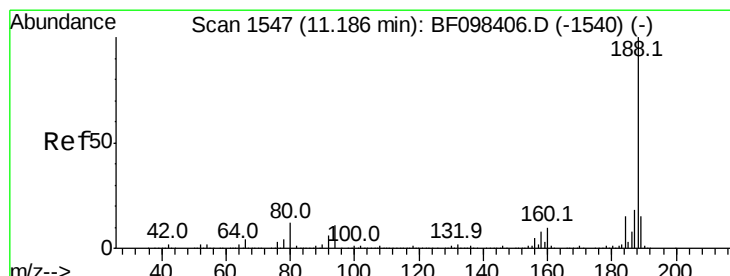
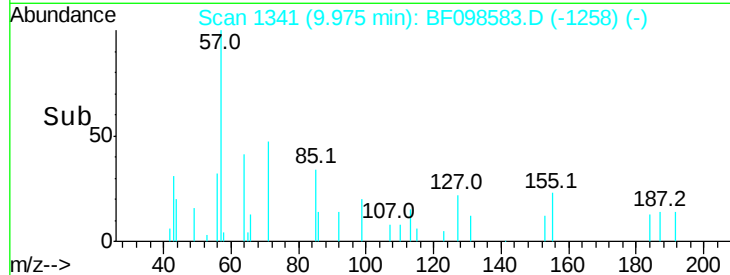
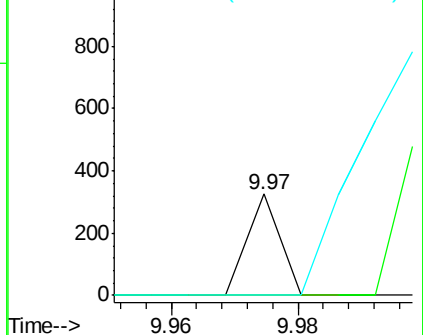
#53
 2,4-Dinitrophenol
 Concen: 8.584 ng
 RT: 9.97 min Scan# 1341
 Delta R.T. 0.19 min
 Lab File: BF098583.D
 Acq: 15 Sep 2017 21:57

Instrument :
 BNA_F
 ClientSampleId :
 TR-04-091317

Tot Ion:184 Resp: 115
 Ion Ratio Lower Upper
 184 100
 63 0.0 62.7 94.1#
 154 0.0 81.1 121.7#

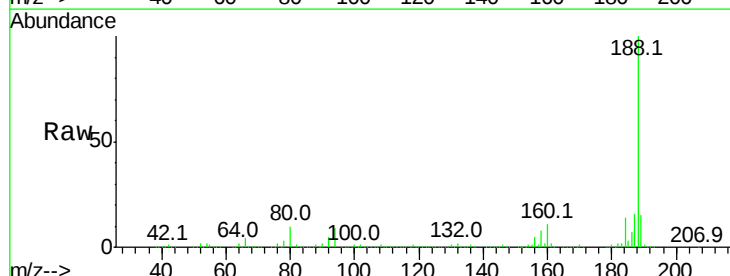


Abundance Ion 184.00 (183.70 to 184.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 154.00 (153.70 to 154.70): E

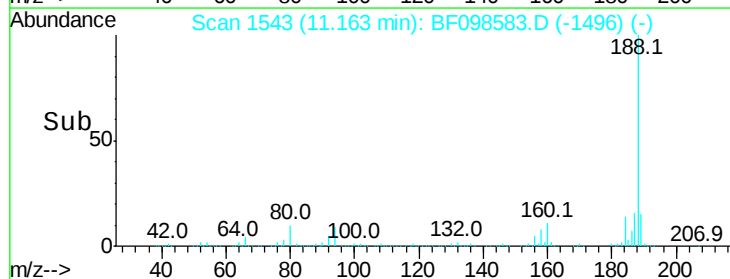
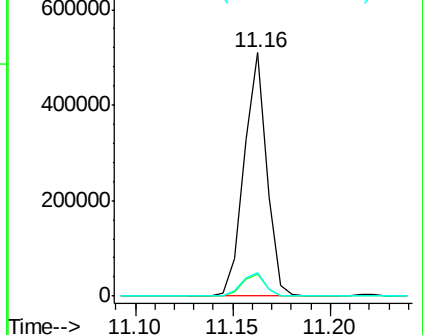


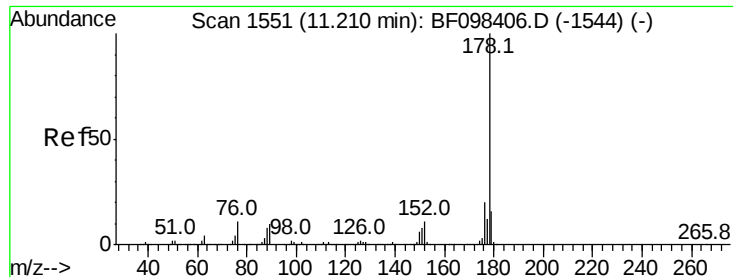
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.16 min Scan# 1543
 Delta R.T. -0.02 min
 Lab File: BF098583.D
 Acq: 15 Sep 2017 21:57

Tgt Ion:188 Resp: 410542
 Ion Ratio Lower Upper
 188 100
 94 9.1 9.4 14.2#
 80 9.8 10.2 15.2#



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 4.861 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Instrument :

BNA_F

ClientSampleId :

TR-04-091317

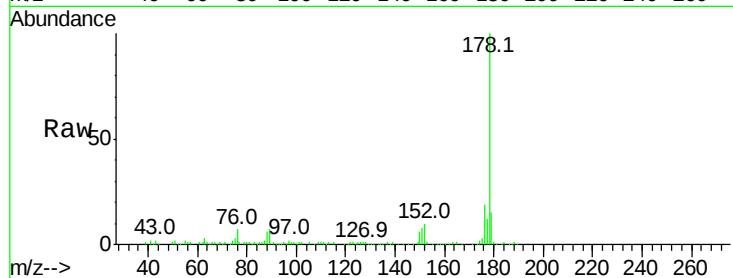
Tot Ion:178 Resp: 105800

Ion Ratio Lower Upper

178 100

176 19.3 16.2 24.4

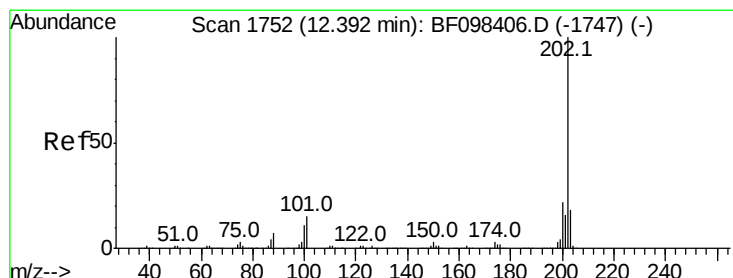
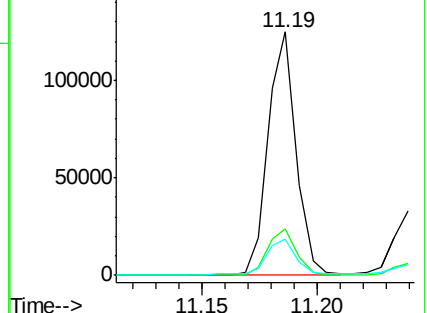
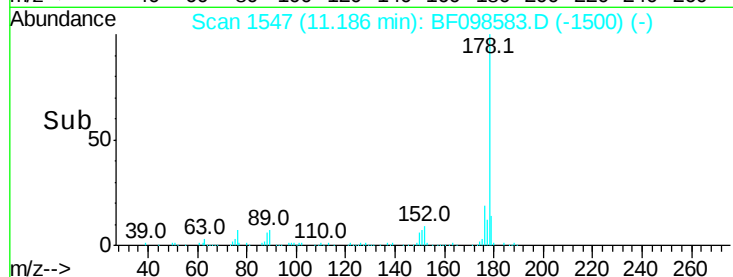
179 14.7 12.6 19.0



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



#74

Fluoranthene

Concen: 8.282 ng

RT: 12.37 min Scan# 1749

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

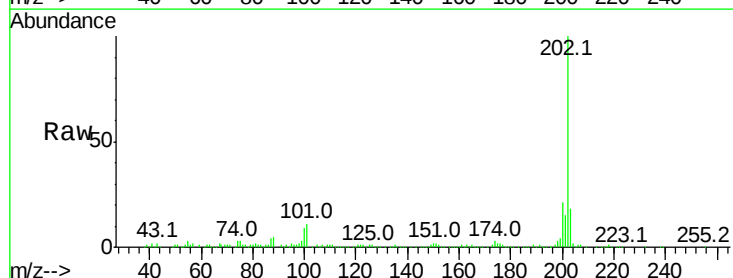
Tgt Ion:202 Resp: 180446

Ion Ratio Lower Upper

202 100

101 10.8 0.0 33.2

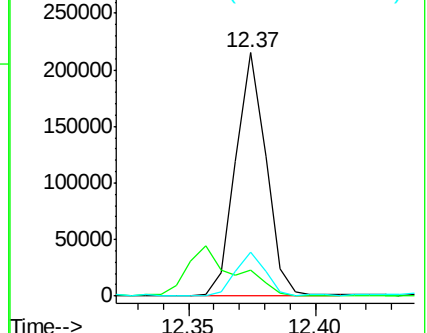
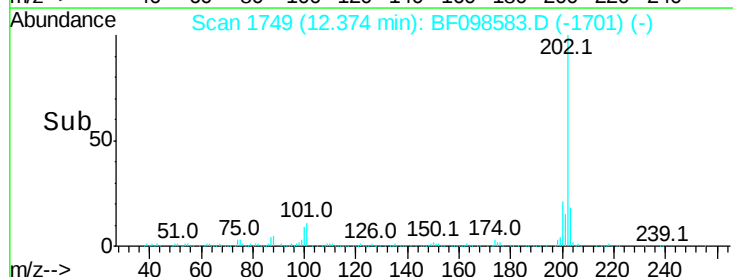
203 17.8 0.0 38.1

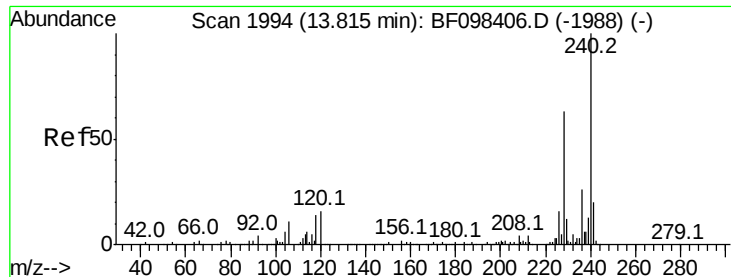


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.80 min Scan# 1991

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Instrument :

BNA_F

ClientSampleId :

TR-04-091317

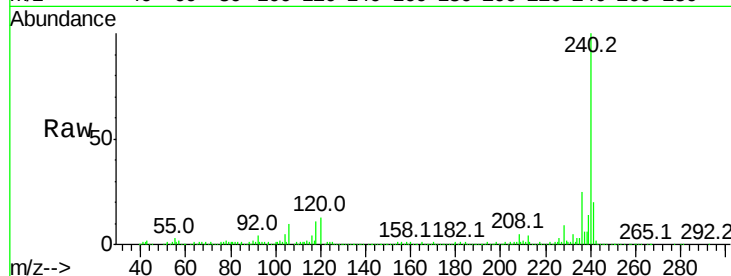
Tot Ion:240 Resp: 279844

Ion Ratio Lower Upper

240 100

120 13.3 5.8 8.8#

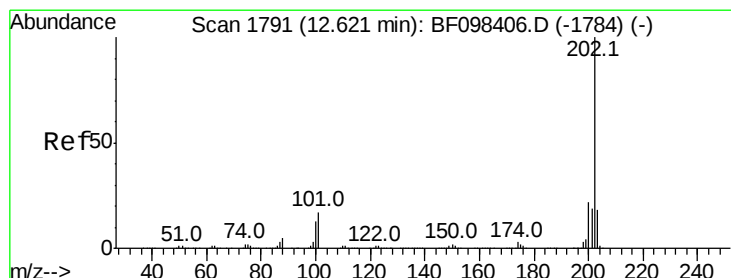
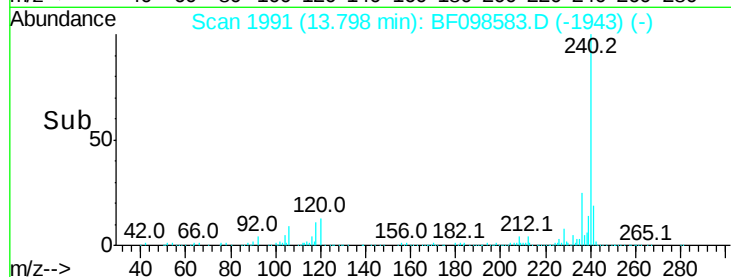
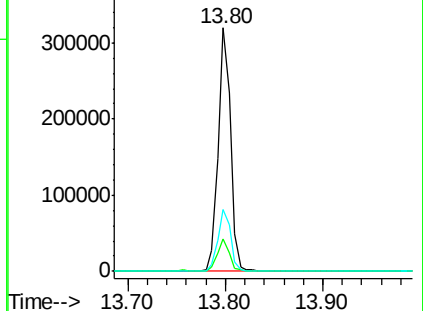
236 25.2 20.5 30.7



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



#77

Pyrene

Concen: 8.741 ng

RT: 12.60 min Scan# 1788

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

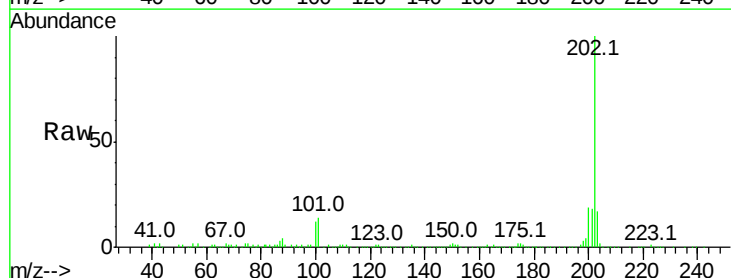
Tgt Ion:202 Resp: 192968

Ion Ratio Lower Upper

202 100

200 19.3 17.6 26.4

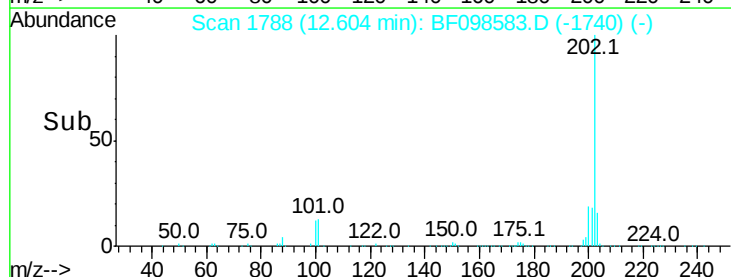
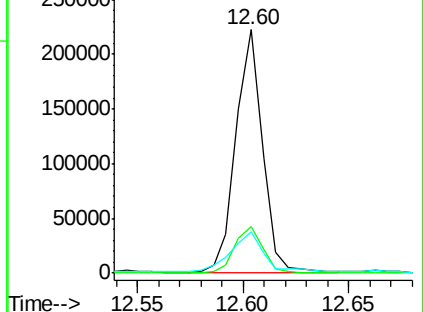
203 16.8 14.4 21.6

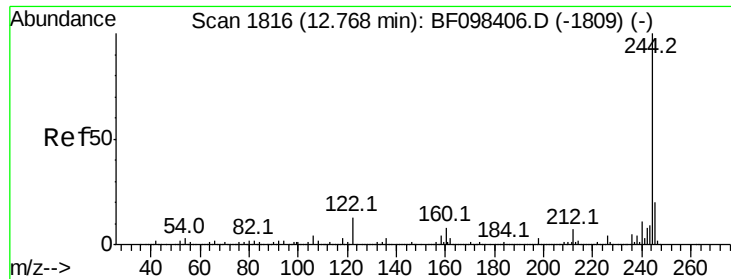


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 15.264 ng

RT: 12.74 min Scan# 1812

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Instrument :

BNA_F

ClientSampleId :

TR-04-091317

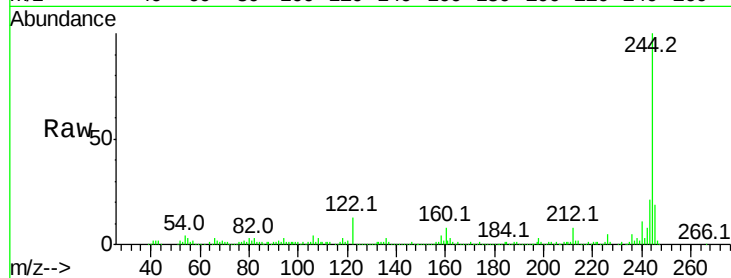
Tot Ion:244 Resp: 197899

Ion Ratio Lower Upper

244 100

212 7.8 6.0 9.0

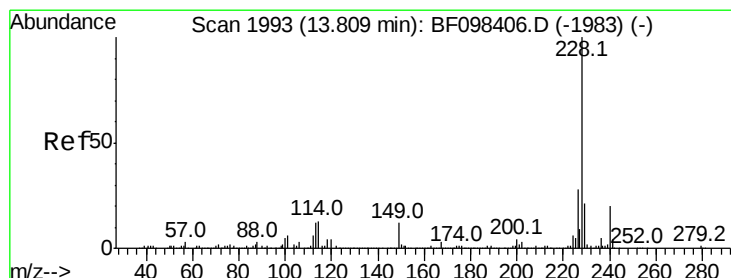
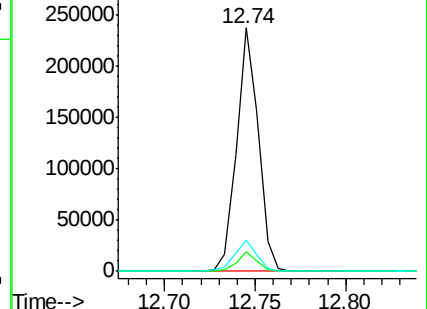
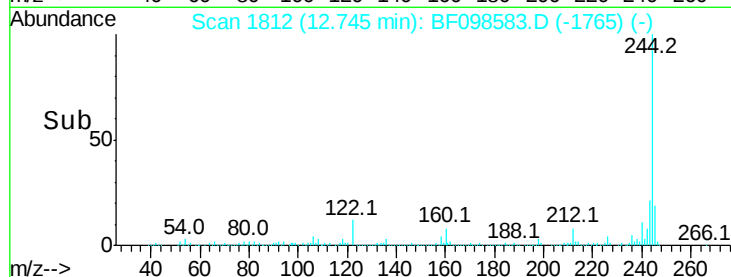
122 12.7 10.3 15.5



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



#80

Benzo(a)anthracene

Concen: 4.532 ng

RT: 13.79 min Scan# 1989

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

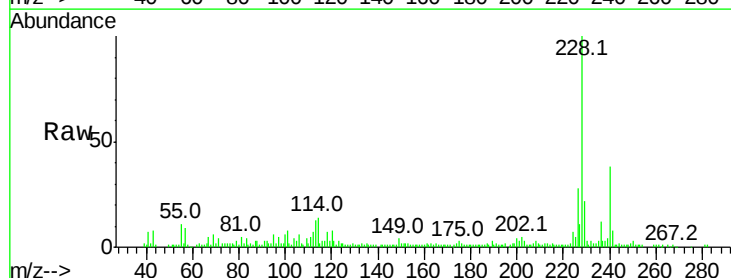
Tgt Ion:228 Resp: 74362

Ion Ratio Lower Upper

228 100

226 27.6 22.6 33.8

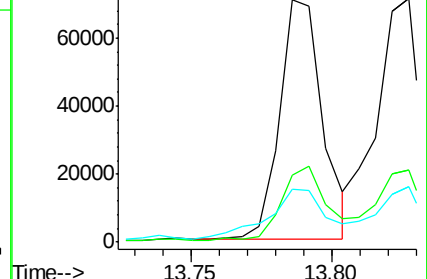
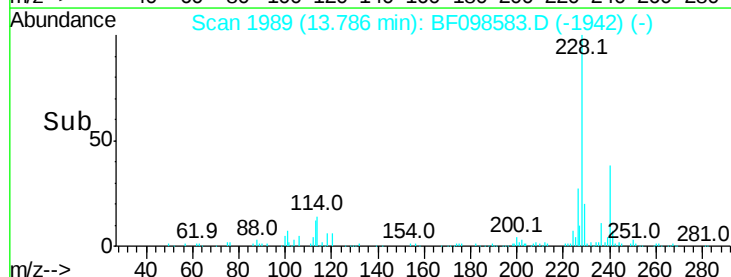
229 21.7 16.3 24.5

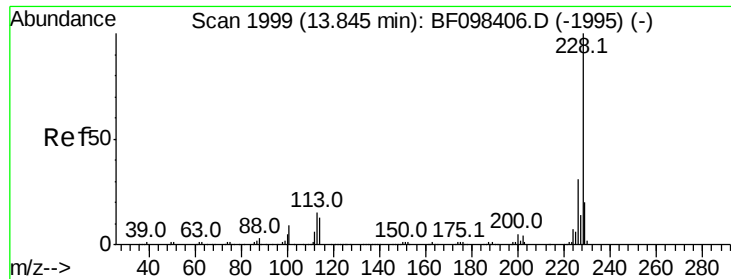


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.606 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Instrument :

BNA_F

ClientSampleId :

TR-04-091317

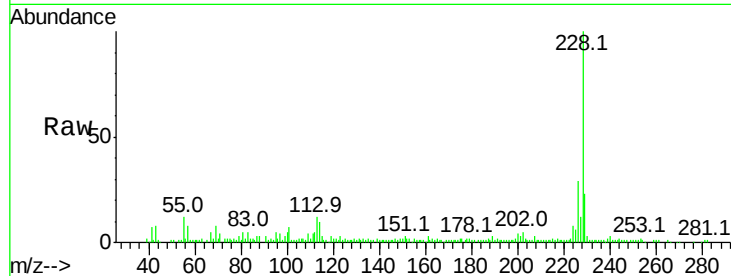
Tot Ion:228 Resp: 76386

Ion Ratio Lower Upper

228 100

226 29.4 24.9 37.3

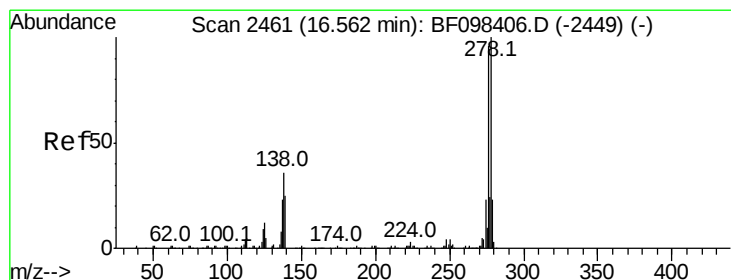
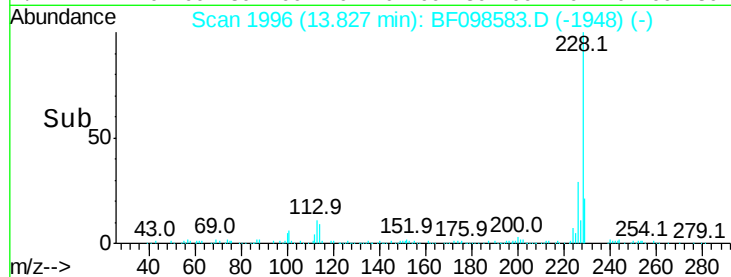
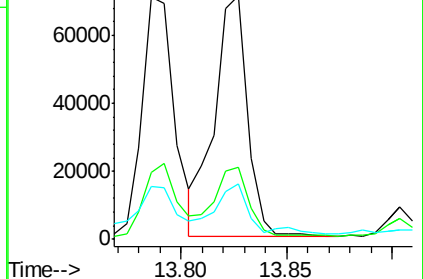
229 23.0 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.378 ng

RT: 16.54 min Scan# 2458

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

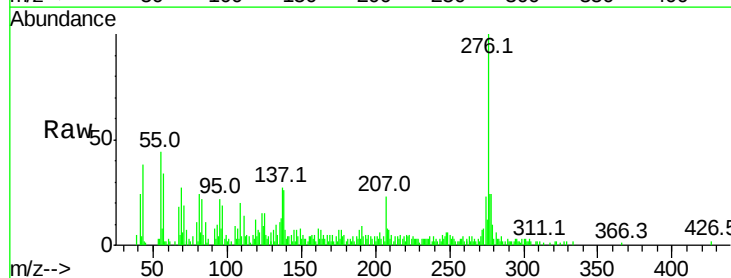
Tgt Ion:276 Resp: 39301

Ion Ratio Lower Upper

276 100

138 24.2 27.8 41.6#

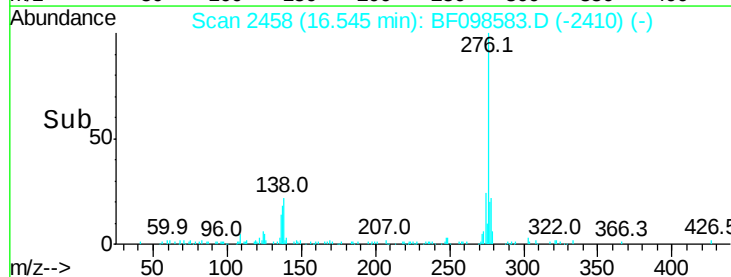
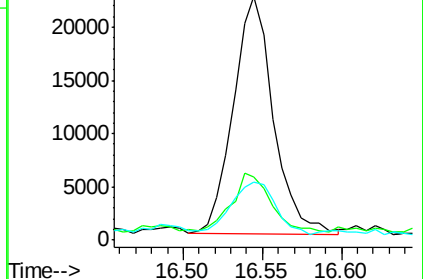
277 23.9 20.2 30.4

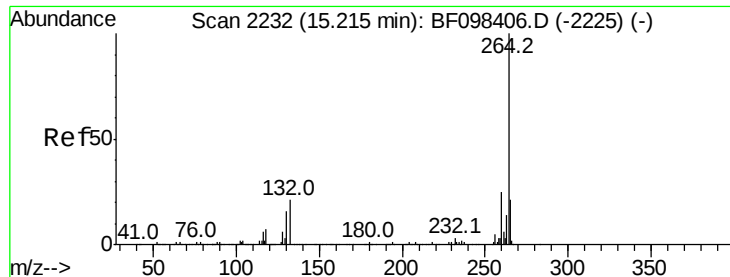


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

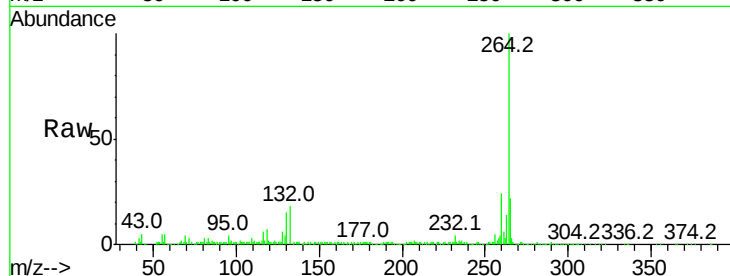




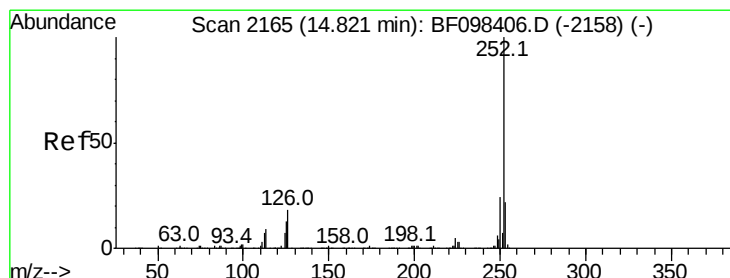
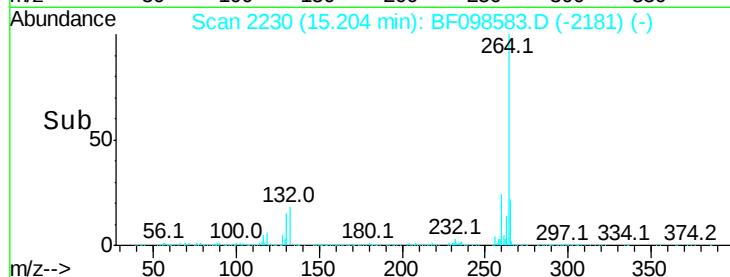
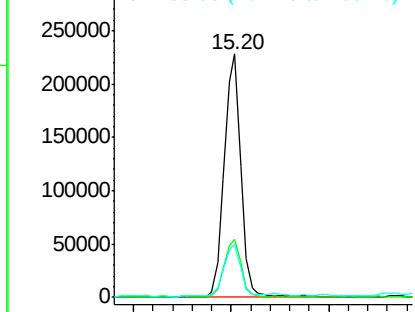
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.20 min Scan# 2230
Delta R.T. -0.01 min
Lab File: BF098583.D
Acq: 15 Sep 2017 21:57

Instrument :
BNA_F
ClientSampleId :
TR-04-091317

Tot Ion:264 Resp: 266729
Ion Ratio Lower Upper
264 100
260 23.9 19.5 29.3
265 21.9 17.2 25.8

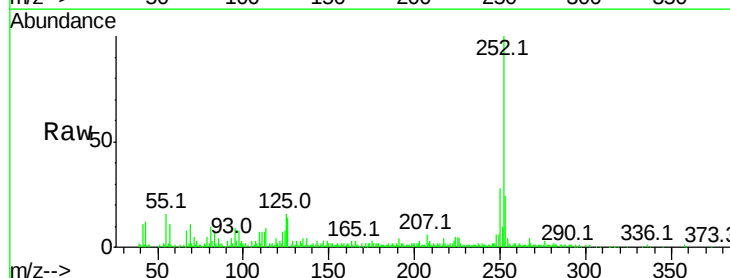


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

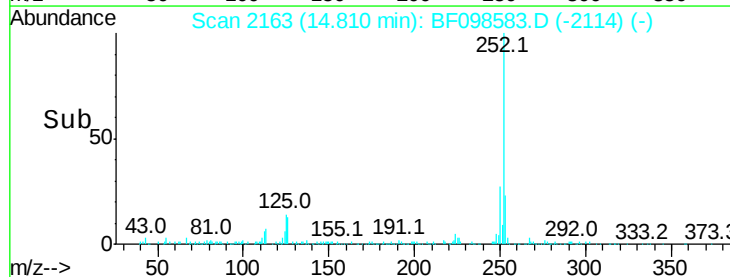
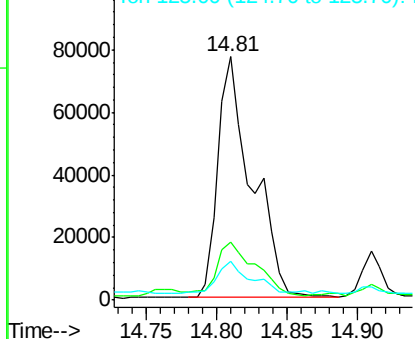


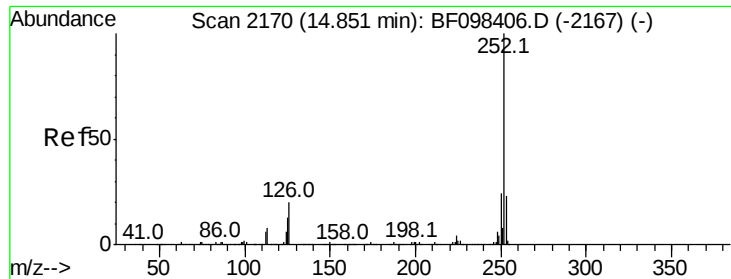
#87
Benzo(b)fluoranthene
Concen: 7.682 ng
RT: 14.81 min Scan# 2163
Delta R.T. -0.01 min
Lab File: BF098583.D
Acq: 15 Sep 2017 21:57

Tgt Ion:252 Resp: 128831
Ion Ratio Lower Upper
252 100
253 24.1 18.1 27.1
125 15.9 9.8 14.8#



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

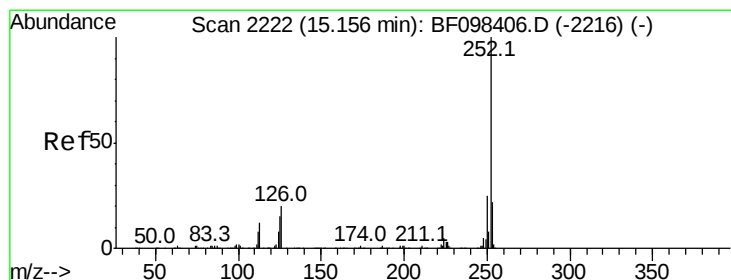
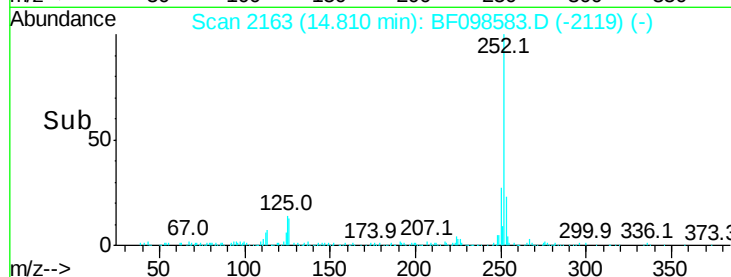
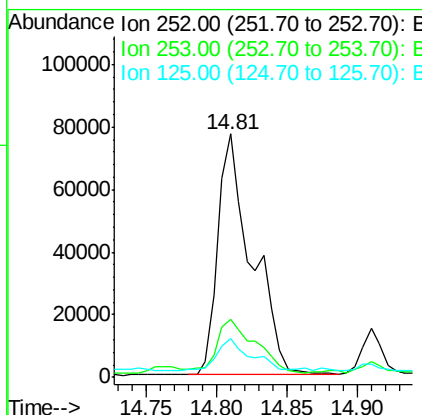
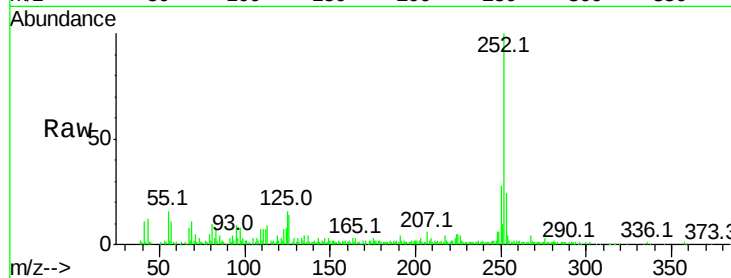




#88
Benzo(k)fluoranthene
Concen: 8.228 ng
RT: 14.81 min Scan# 2163
Delta R.T. -0.04 min
Lab File: BF098583.D
Acq: 15 Sep 2017 21:57

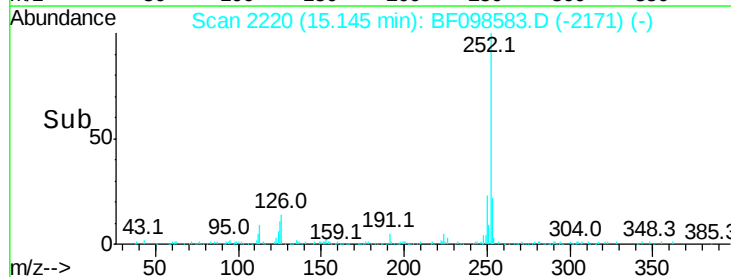
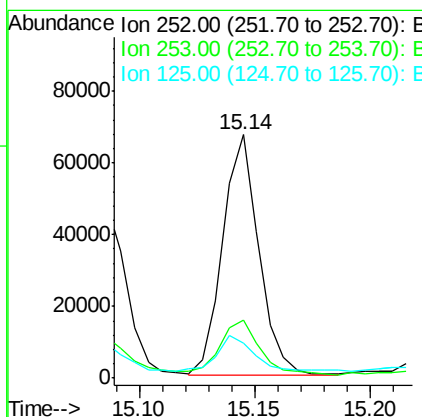
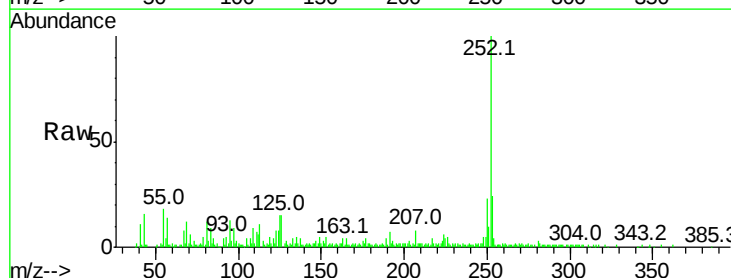
Instrument :
BNA_F
ClientSampleId :
TR-04-091317

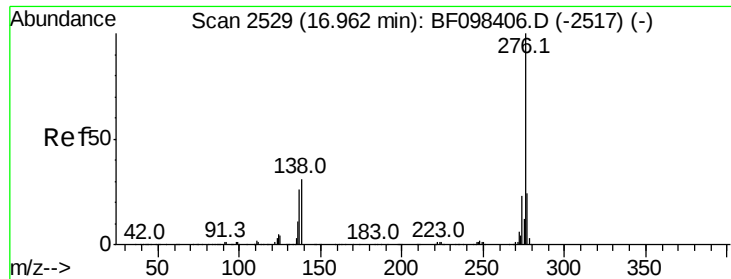
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	18.4	27.6
125	15.9	13.1	19.7



#89
Benzo(a)pyrene
Concen: 4.882 ng
RT: 15.14 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF098583.D
Acq: 15 Sep 2017 21:57

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	14.6	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 3.622 ng

RT: 16.94 min Scan# 2526

Delta R.T. -0.02 min

Lab File: BF098583.D

Acq: 15 Sep 2017 21:57

Instrument :

BNA_F

ClientSampleId :

TR-04-091317

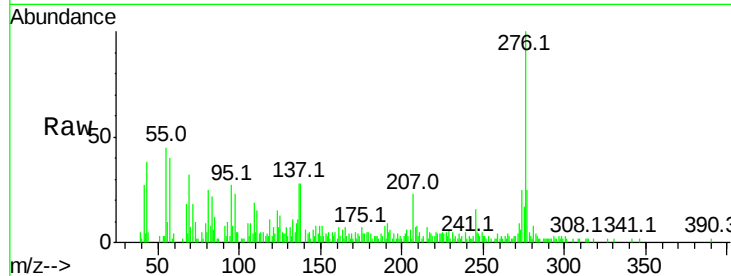
Tot Ion:276 Resp: 39596

Ion Ratio Lower Upper

276 100

277 24.6 18.6 28.0

138 27.6 25.4 38.0



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

