

Data Path : Z:\HPCHEM1\BNA_F\Data\BF080317\
 Data File : BF097350.D
 Acq On : 4 Aug 2017 9:31
 Operator : SJ/JU
 Sample : I4540-05DL 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-12020DL

Quant Time: Aug 04 11:46:28 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	104576	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	385186	20.00	ng	-0.06
38) Acenaphthene-d10	9.47	164	135485	20.00	ng	-0.06
63) Phenanthrene-d10	10.95	188	206350	20.00	ng	-0.06
75) Chrysene-d12	13.57	240	151728	20.00	ng	-0.06
86) Perylene-d12	14.91	264	113028	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	206940	29.83	ng	-0.05
7) Phenol-d6	6.12	99	256481	32.39	ng	-0.05
23) Nitrobenzene-d5	7.02	82	151197	23.03	ng	-0.06
41) 2,4,6-Tribromophenol	10.26	330	34181	31.93	ng	-0.06
44) 2-Fluorobiphenyl	8.80	172	249060	31.20	ng	-0.06
78) Terphenyl-d14	12.52	244	161760	21.74	ng	-0.06

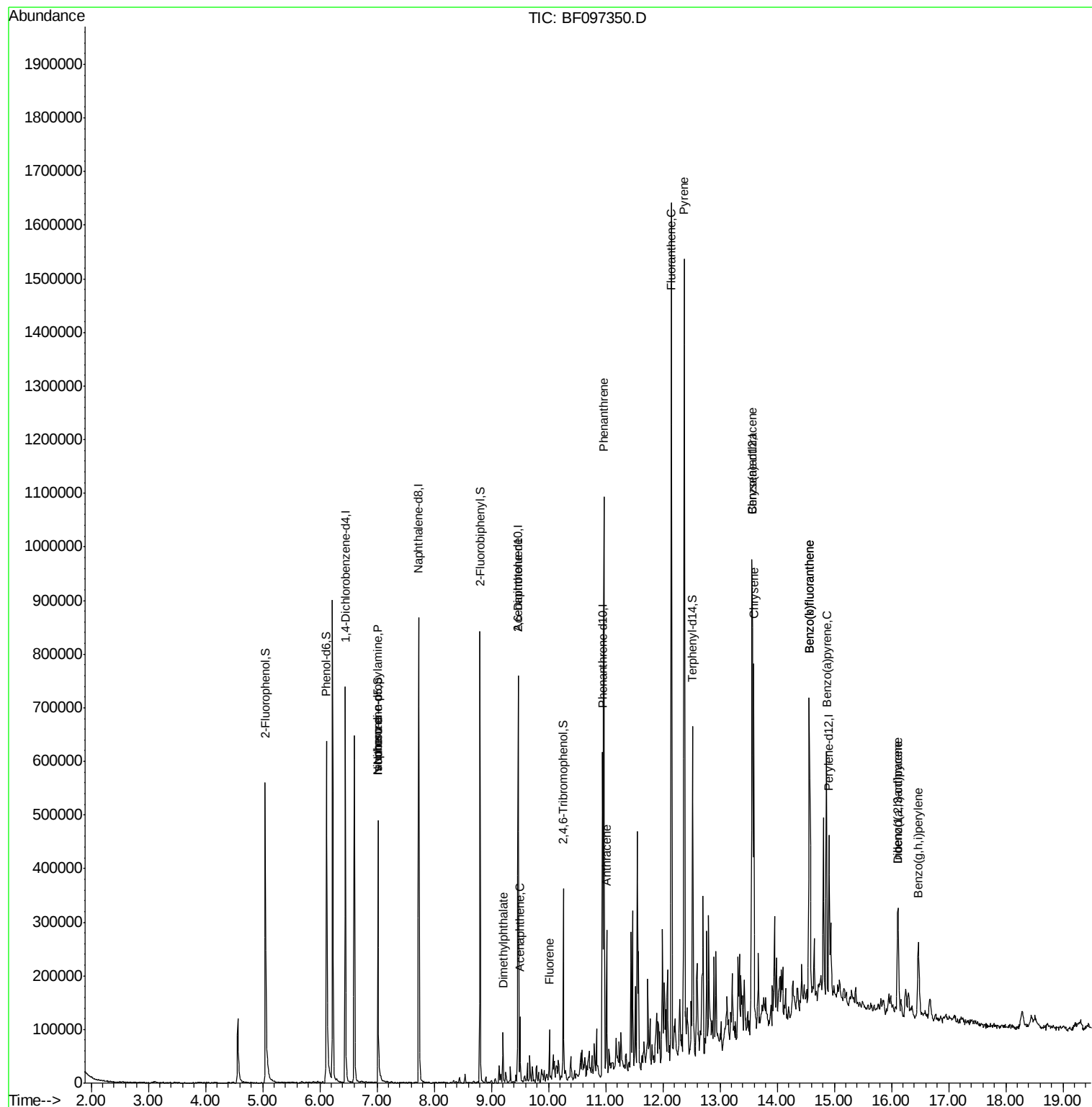
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.02	70	19295	3.701	ng	# 84
25) Isophorone	7.02	82	151196	11.758	ng	# 67
49) Dimethylphthalate	9.20	163	34685	3.371	ng	97
50) 2,6-Dinitrotoluene	9.47	165	17351	7.951	ng	# 31
51) Acenaphthene	9.50	154	27526	3.575	ng	97
57) Fluorene	10.02	166	24279	3.150	ng	# 94
70) Phenanthrene	10.97	178	369704	33.438	ng	99
71) Anthracene	11.02	178	105752	9.339	ng	98
74) Fluoranthene	12.15	202	625218	57.723	ng	98
77) Pyrene	12.37	202	649597	52.296	ng	99
80) Benzo(a)anthracene	13.56	228	291080	29.649	ng	98
82) Chrysene	13.59	228	270674	28.235	ng	96
85) Indeno(1,2,3-cd)pyrene	16.12	276	96488	11.738	ng	95
87) Benzo(b)fluoranthene	14.56	252	332725	48.971	ng	# 97
88) Benzo(k)fluoranthene	14.56	252	332725	51.391	ng	98
89) Benzo(a)pyrene	14.86	252	191648	30.820	ng	97
90) Dibenzo(a,h)anthracene	16.12	278	26381	5.173	ng	93
91) Benzo(g,h,i)perylene	16.47	276	94753	17.719	ng	97

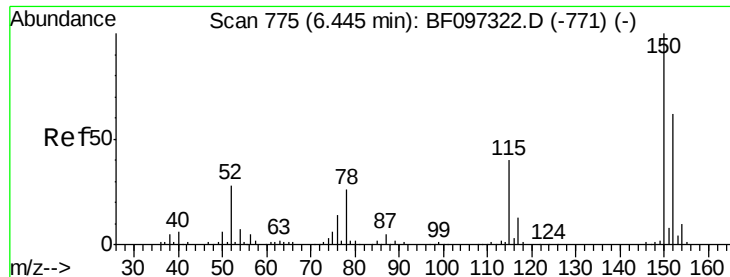
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_F\Data\BF080317\
Data File : BF097350.D
Acq On : 4 Aug 2017 9:31
Operator : SJ/JU
Sample : I4540-05DL 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
72-12020DL

Quant Time: Aug 04 11:46:28 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 04 01:17:22 2017
Response via : Initial Calibration



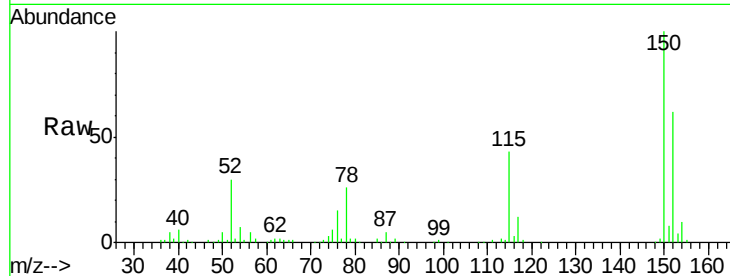


#1

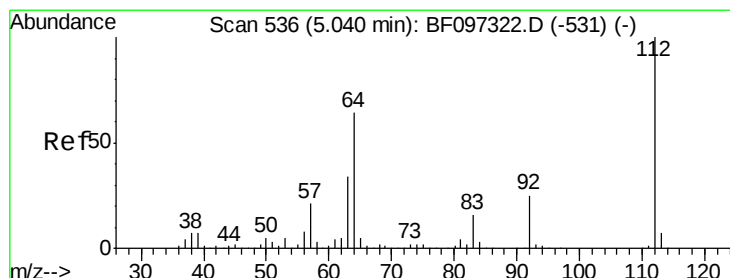
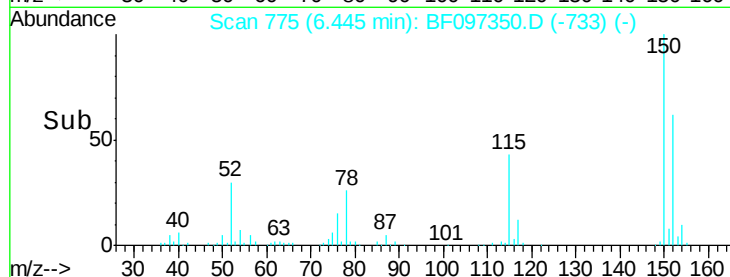
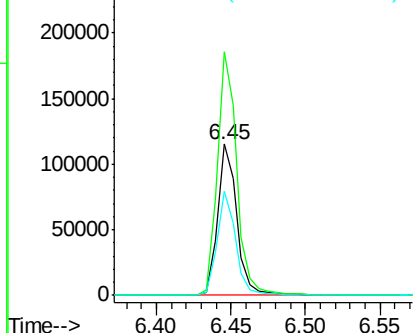
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.45 min Scan# 775
Delta R.T. -0.05 min
Lab File: BF097350.D
Acq: 4 Aug 2017 9:31

Instrument :
BNA_F
ClientSampleId :
72-12020DL

Tgt Ion:152 Resp: 104576
Ion Ratio Lower Upper
152 100
150 160.9 126.2 189.2
115 69.0 52.2 78.2



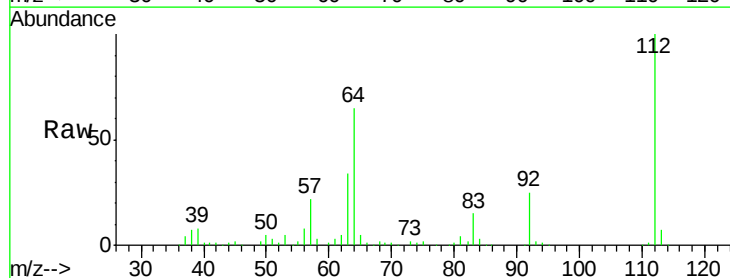
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



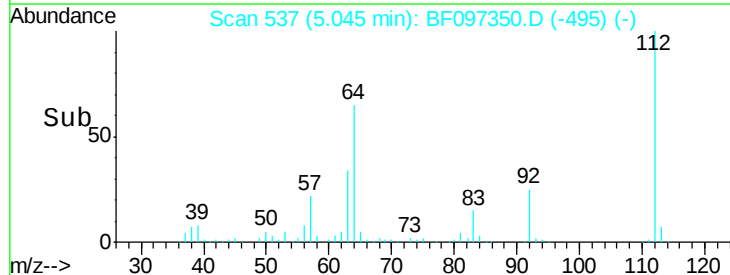
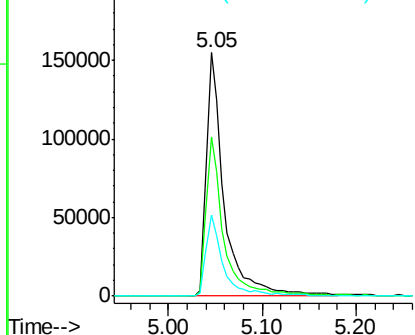
#5

2-Fluorophenol
Concen: 29.831 ng
RT: 5.05 min Scan# 537
Delta R.T. -0.05 min
Lab File: BF097350.D
Acq: 4 Aug 2017 9:31

Tgt Ion:112 Resp: 206940
Ion Ratio Lower Upper
112 100
64 65.4 46.0 69.0
63 33.5 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: 32.386 ng

RT: 6.12 min Scan# 719

Delta R.T. -0.05 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :

BNA_F

ClientSampleId :

72-12020DL

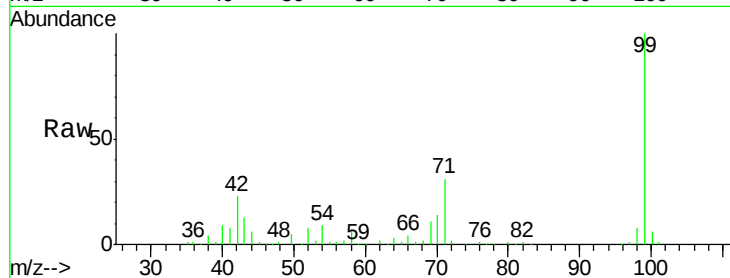
Tgt Ion: 99 Resp: 256481

Ion Ratio Lower Upper

99 100

42 23.0 13.5 20.3#

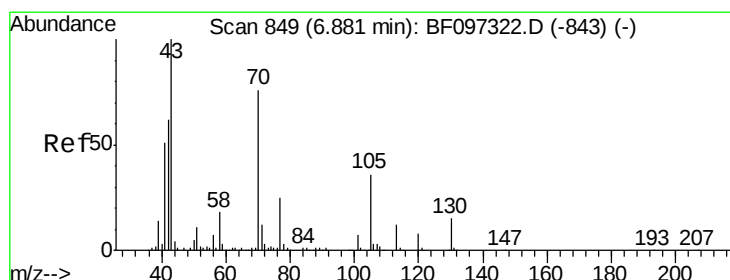
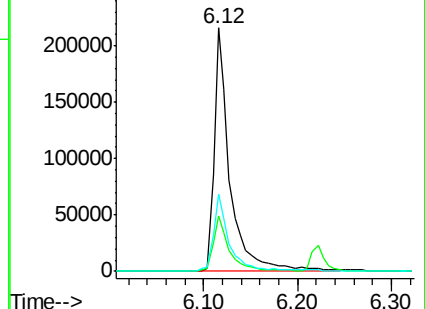
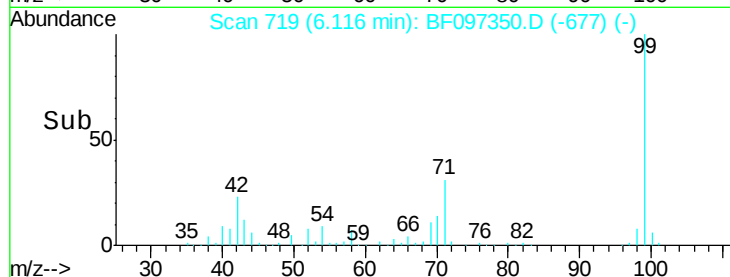
71 31.5 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 3.701 ng

RT: 7.02 min Scan# 872

Delta R.T. 0.08 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Tgt Ion: 70 Resp: 19295

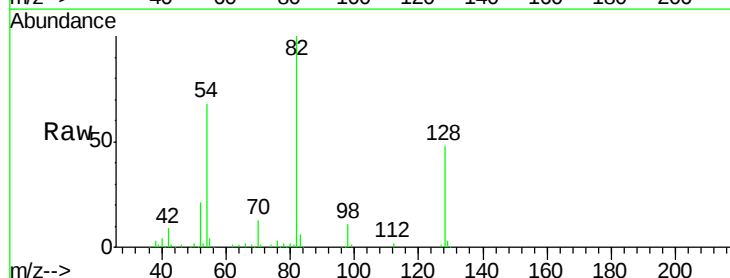
Ion Ratio Lower Upper

70 100

42 65.1 47.2 70.8

101 0.0 7.2 10.8#

130 3.0 15.9 23.9#

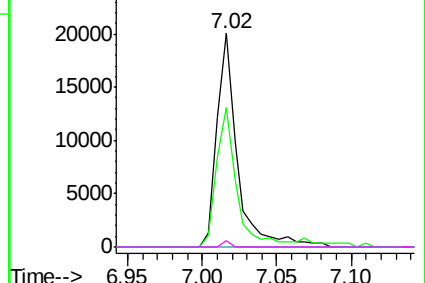
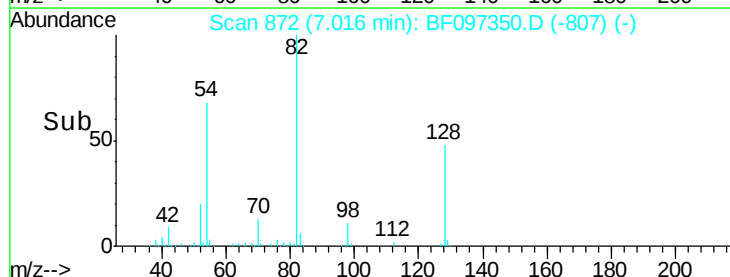


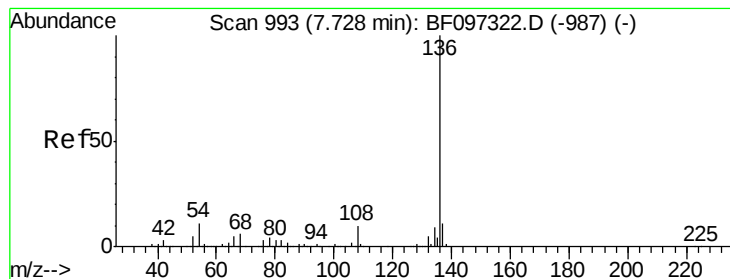
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.73 min Scan# 993

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :

BNA_F

ClientSampleId :

72-12020DL

Tgt Ion: 136 Resp: 385186

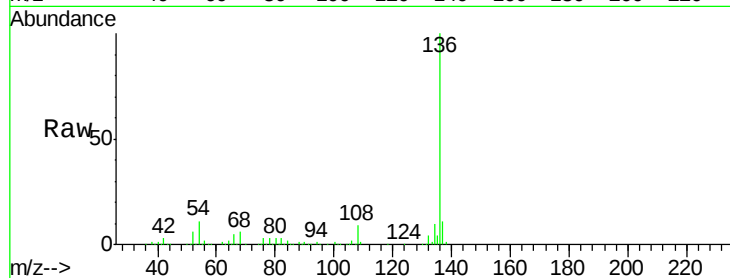
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 11.4 4.9 7.3#

68 5.9 4.1 6.1

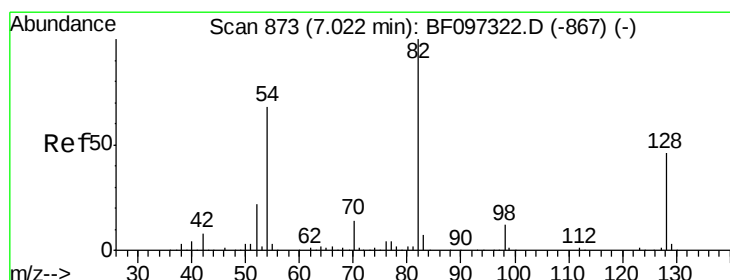
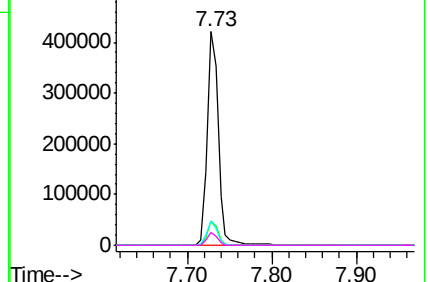
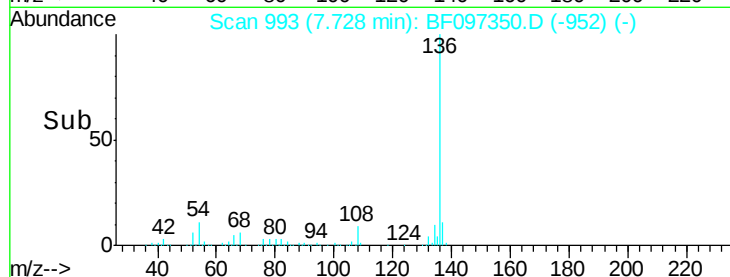


Abundance Ion 136.00 (135.70 to 136.70): E

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: 23.027 ng

RT: 7.02 min Scan# 872

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

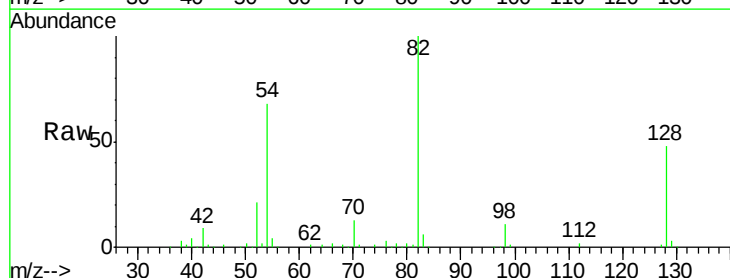
Tgt Ion: 82 Resp: 151197

Ion Ratio Lower Upper

82 100

128 48.0 34.0 51.0

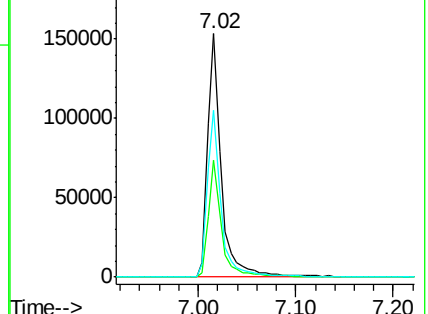
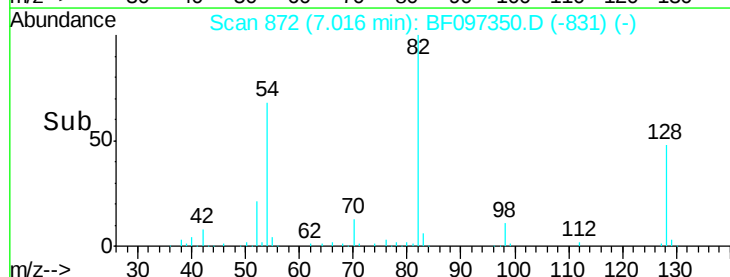
54 68.4 42.2 63.2#

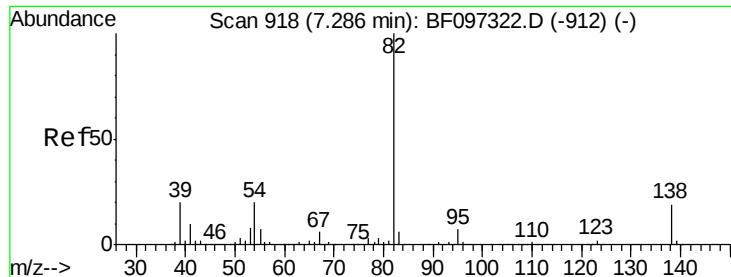


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 11.758 ng

RT: 7.02 min Scan# 872

Delta R.T. -0.32 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :

BNA_F

ClientSampleId :

72-12020DL

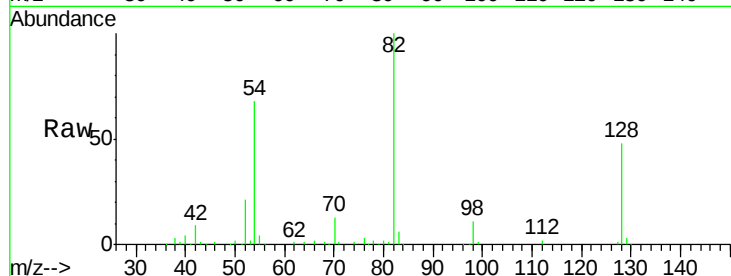
Tgt Ion: 82 Resp: 151196

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

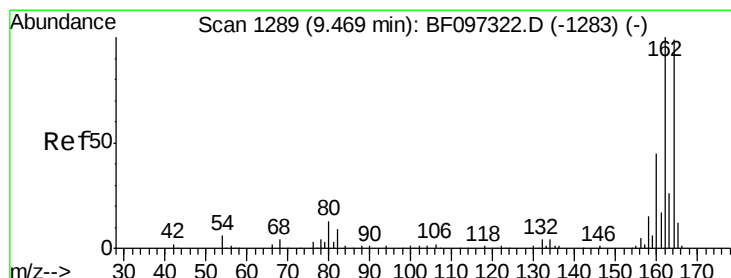
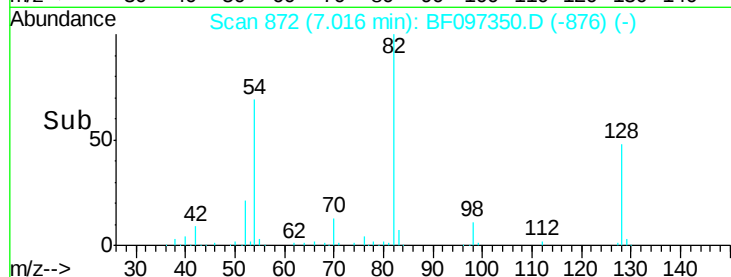
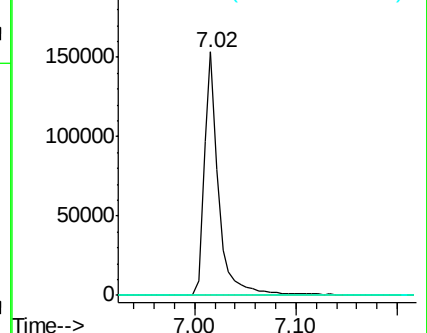
138 0.0 13.1 19.7#



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): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.47 min Scan# 1289

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

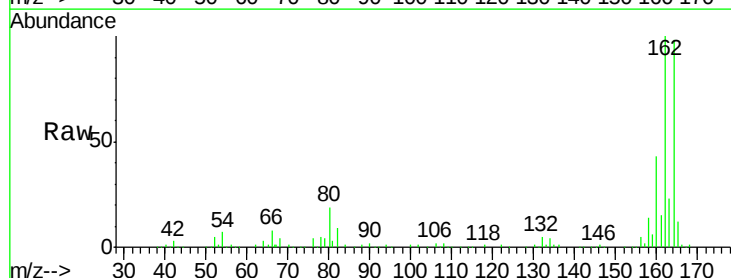
Tgt Ion: 164 Resp: 135485

Ion Ratio Lower Upper

164 100

162 102.1 82.6 123.8

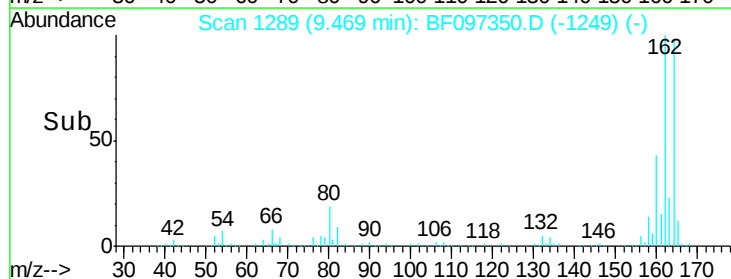
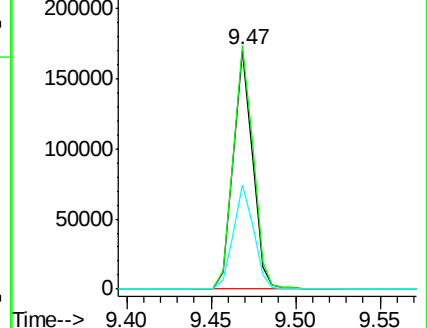
160 43.8 36.2 54.2

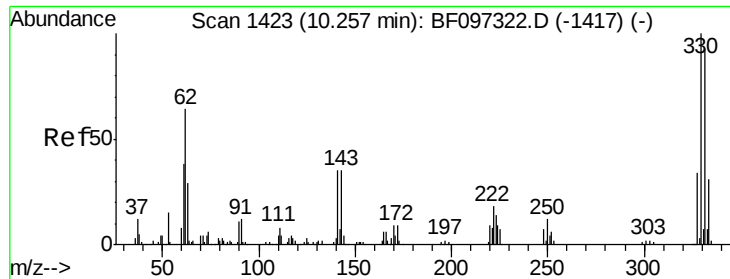


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

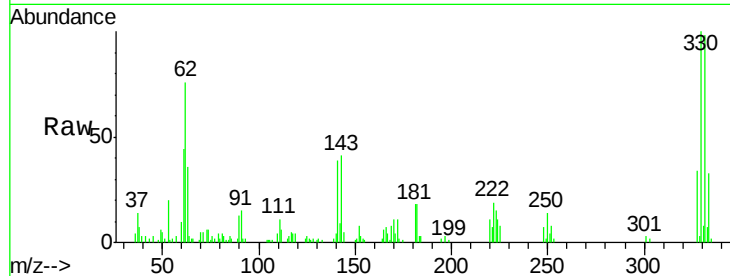




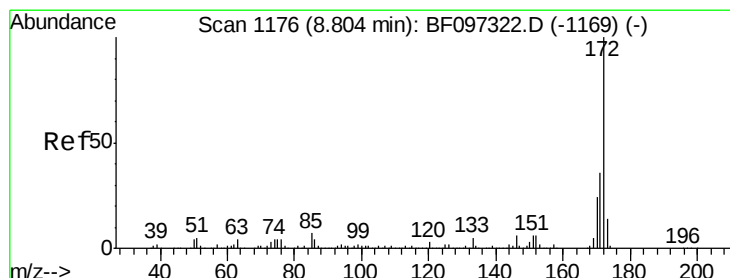
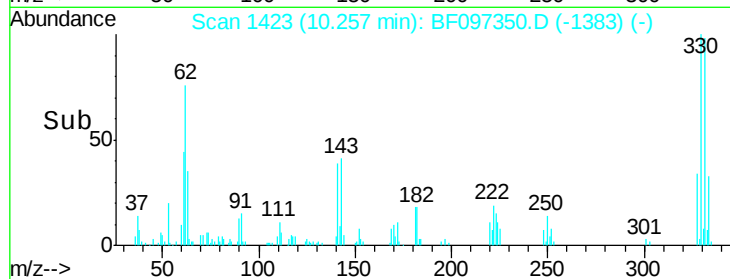
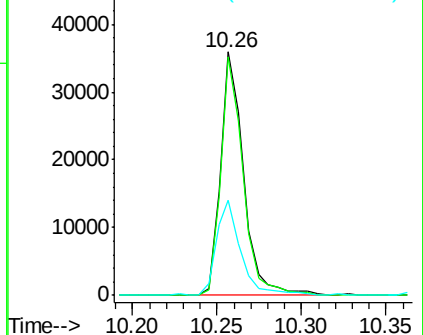
#41
 2,4,6-Tribromophenol
 Concen: 31.931 ng
 RT: 10.26 min Scan# 1423
 Delta R.T. -0.06 min
 Lab File: BF097350.D
 Acq: 4 Aug 2017 9:31

Instrument :
 BNA_F
 ClientSampleId :
 72-12020DL

Tgt Ion:330 Resp: 34181
 Ion Ratio Lower Upper
 330 100
 332 95.4 76.6 115.0
 141 41.9 31.4 47.2

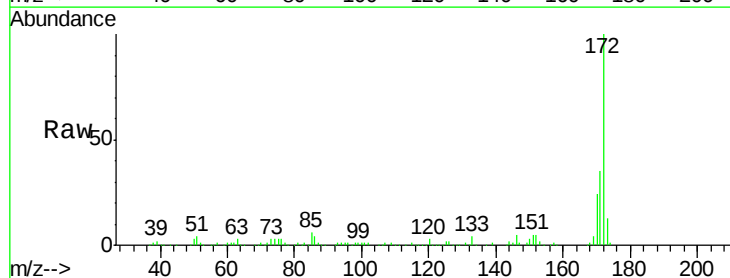


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

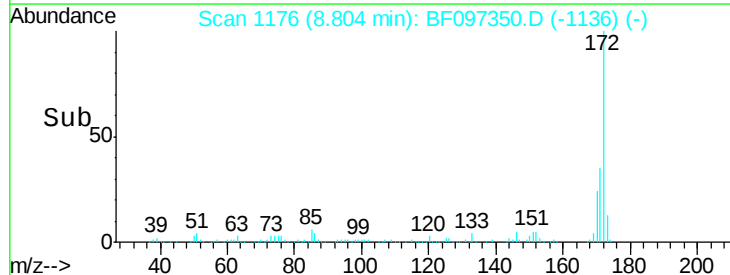
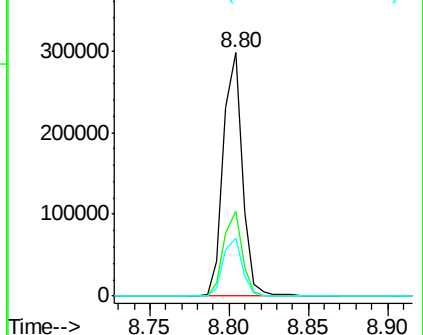


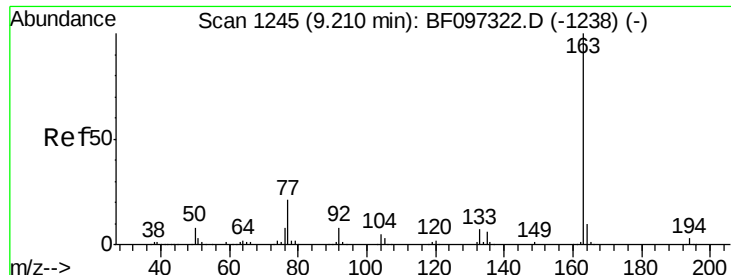
#44
 2-Fluorobiphenyl
 Concen: 31.197 ng
 RT: 8.80 min Scan# 1176
 Delta R.T. -0.06 min
 Lab File: BF097350.D
 Acq: 4 Aug 2017 9:31

Tgt Ion:172 Resp: 249060
 Ion Ratio Lower Upper
 172 100
 171 34.7 29.6 44.4
 170 23.6 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

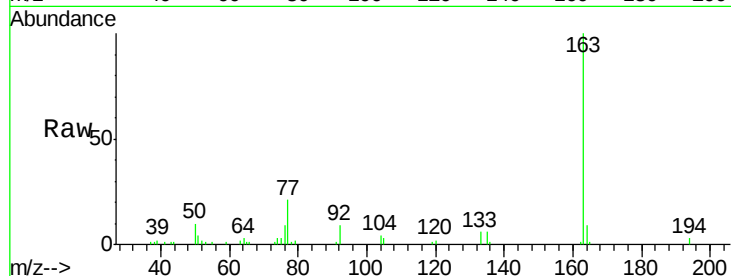




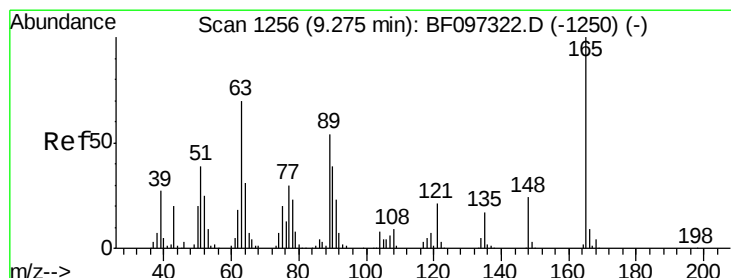
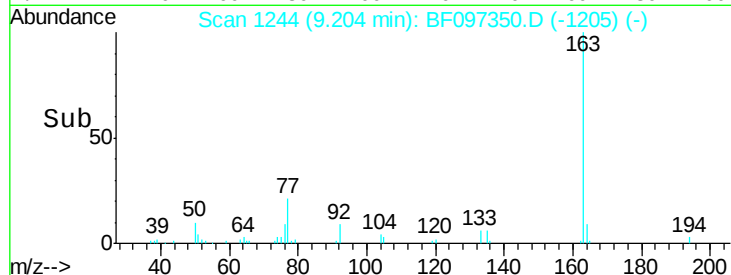
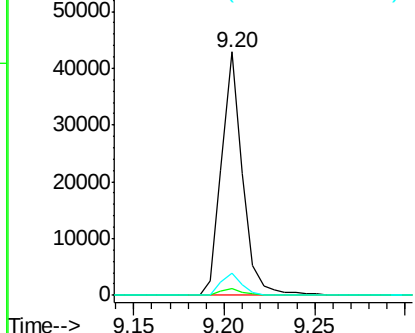
#49
Dimethylphthalate
Concen: 3.371 ng
RT: 9.20 min Scan# 1244
Delta R.T. -0.07 min
Lab File: BF097350.D
Acq: 4 Aug 2017 9:31

Instrument :
BNA_F
ClientSampleId :
72-12020DL

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.6	4.0
164	9.2	8.4	12.6

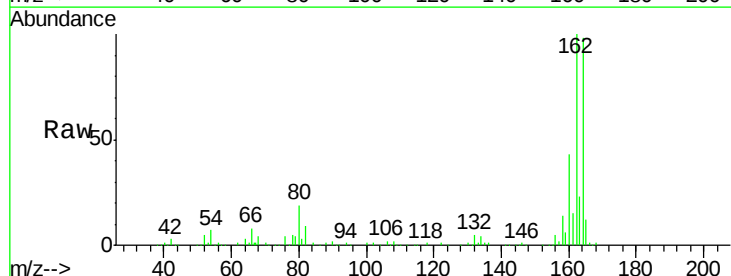


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

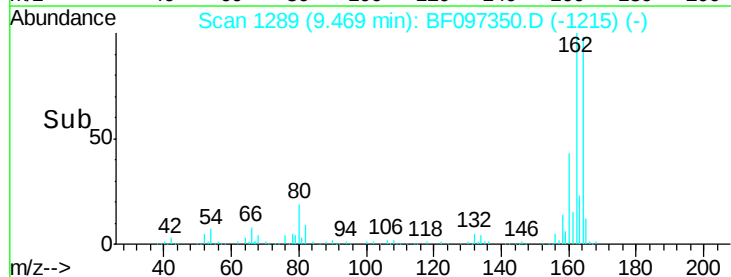
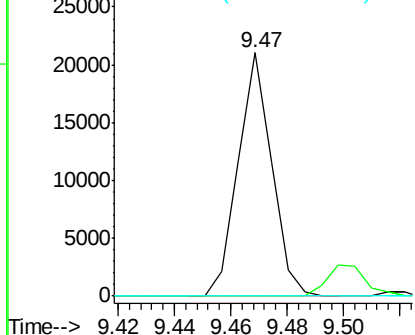


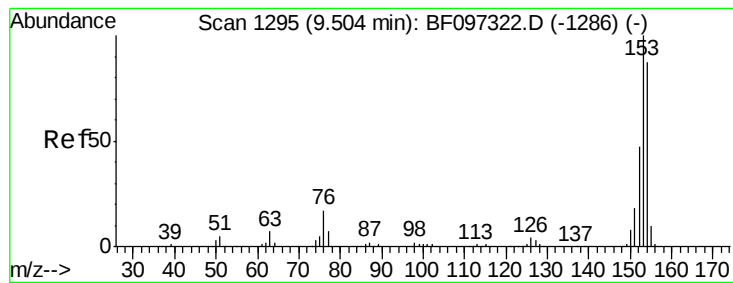
#50
2,6-Dinitrotoluene
Concen: 7.951 ng
RT: 9.47 min Scan# 1289
Delta R.T. 0.14 min
Lab File: BF097350.D
Acq: 4 Aug 2017 9:31

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	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





#51

Acenaphthene

Concen: 3.575 ng

RT: 9.50 min Scan# 1295

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :

BNA_F

ClientSampleId :

72-12020DL

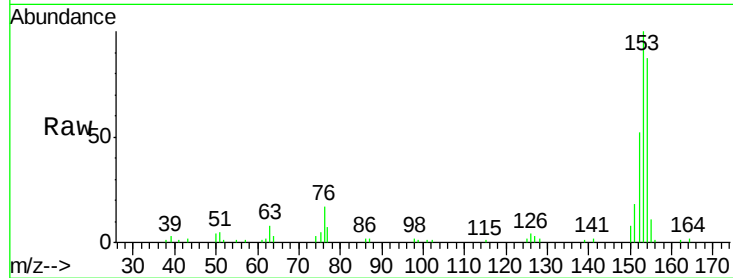
Tgt Ion:154 Resp: 27526

Ion Ratio Lower Upper

154 100

153 114.3 90.5 135.7

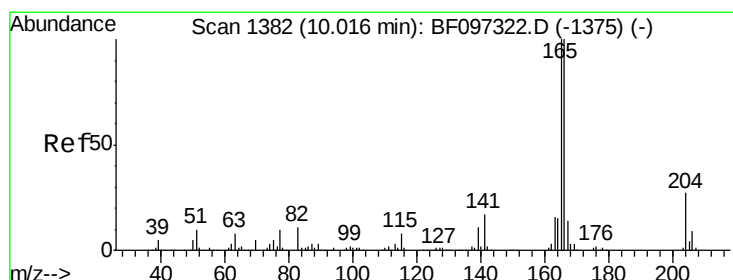
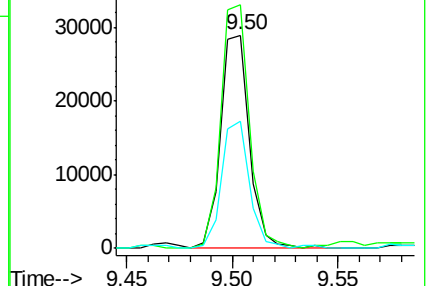
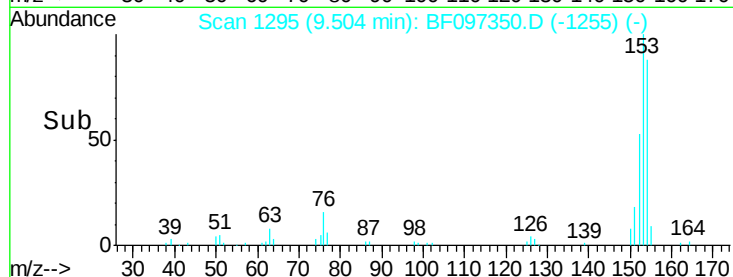
152 59.7 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 3.150 ng

RT: 10.02 min Scan# 1382

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

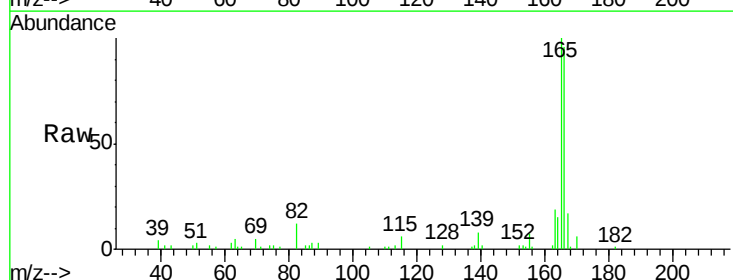
Tgt Ion:166 Resp: 24279

Ion Ratio Lower Upper

166 100

165 103.6 78.8 118.2

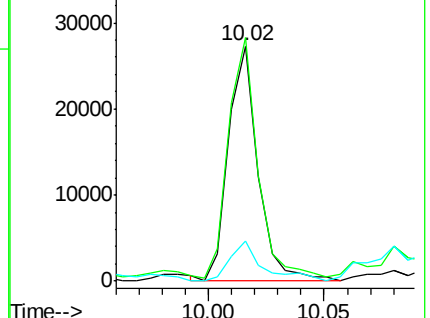
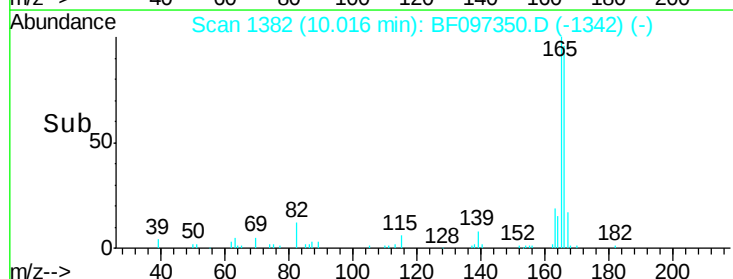
167 17.3 10.6 16.0#

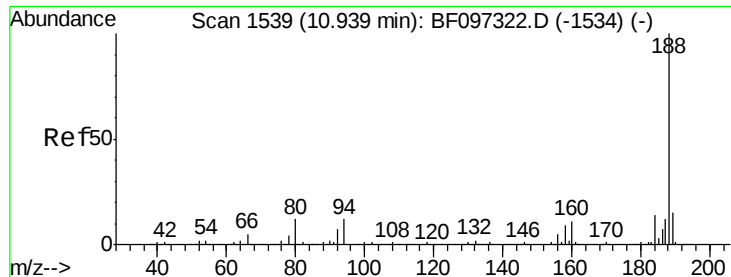


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

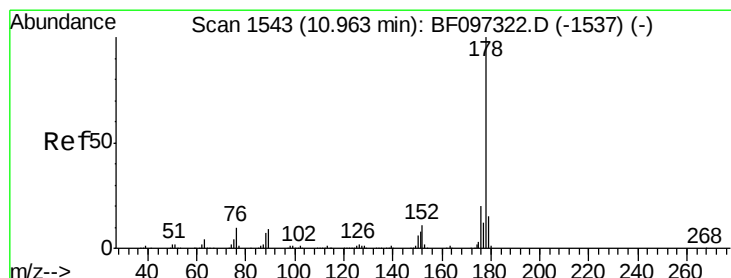
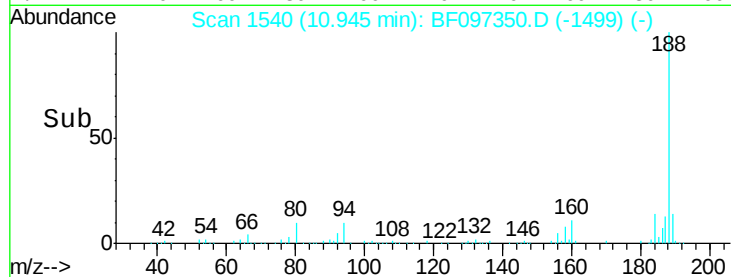
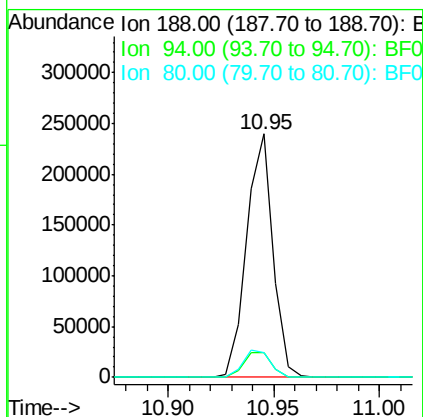
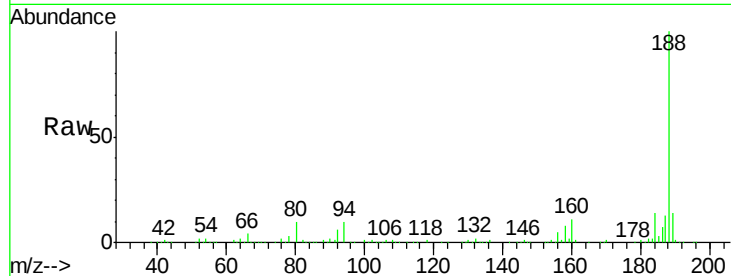




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.95 min Scan# 1540
 Delta R.T. -0.06 min
 Lab File: BF097350.D
 Acq: 4 Aug 2017 9:31

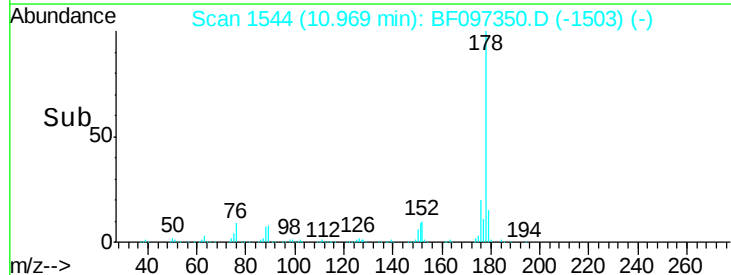
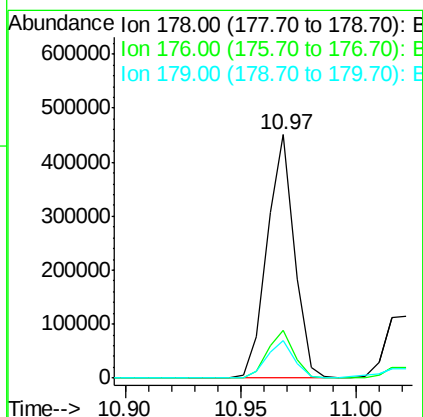
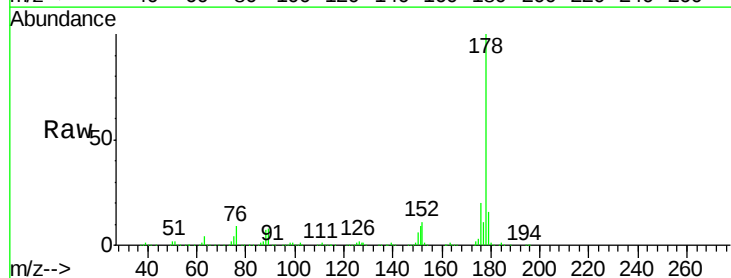
Instrument :
 BNA_F
 ClientSampleId :
 72-12020DL

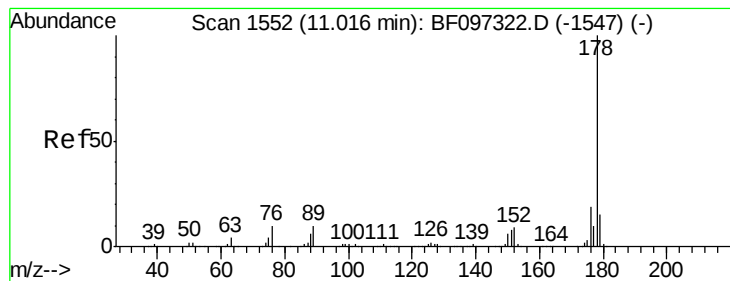
Tgt Ion:188 Resp: 206350
 Ion Ratio Lower Upper
 188 100
 94 10.4 9.4 14.2
 80 10.4 10.2 15.2



#70
 Phenanthrene
 Concen: 33.438 ng
 RT: 10.97 min Scan# 1544
 Delta R.T. -0.06 min
 Lab File: BF097350.D
 Acq: 4 Aug 2017 9:31

Tgt Ion:178 Resp: 369704
 Ion Ratio Lower Upper
 178 100
 176 19.6 16.2 24.4
 179 15.5 12.6 19.0





#71

Anthracene

Concen: 9.339 ng

RT: 11.02 min Scan# 1553

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :

BNA_F

ClientSampleId :

72-12020DL

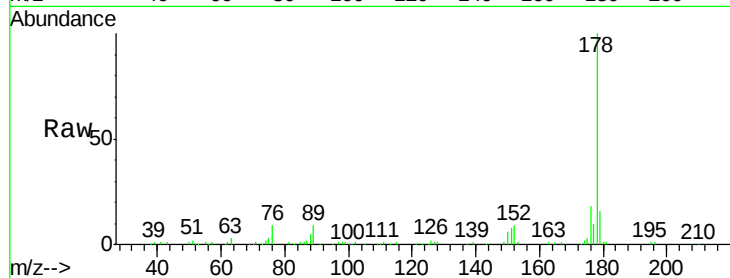
Tgt Ion:178 Resp: 105752

Ion Ratio Lower Upper

178 100

176 18.1 15.8 23.8

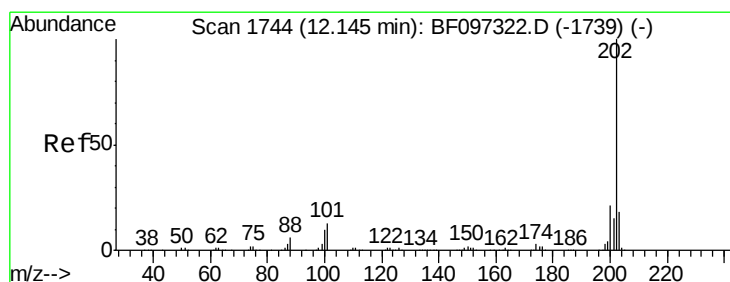
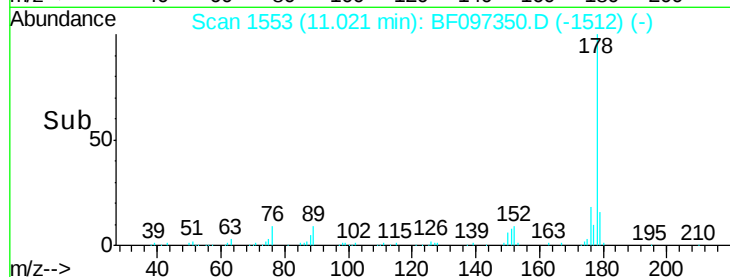
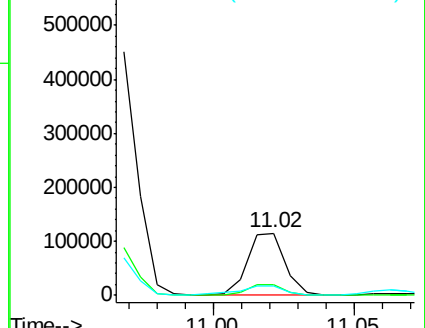
179 15.7 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 57.723 ng

RT: 12.15 min Scan# 1745

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

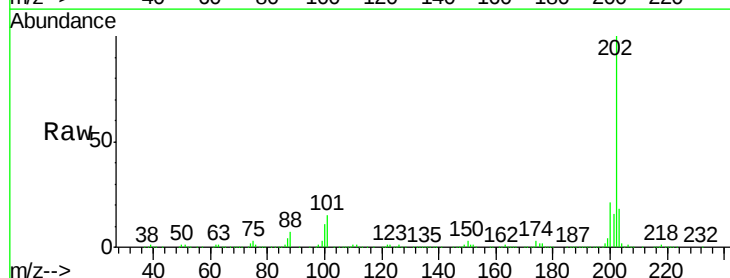
Tgt Ion:202 Resp: 625218

Ion Ratio Lower Upper

202 100

101 14.7 0.0 33.2

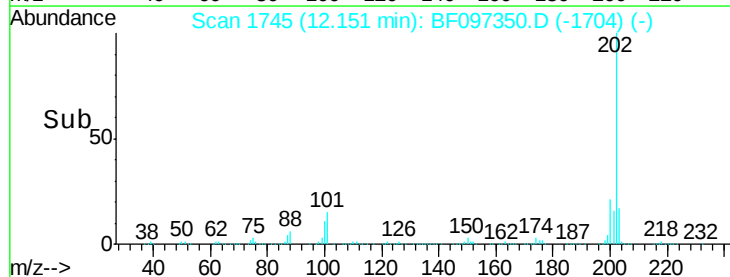
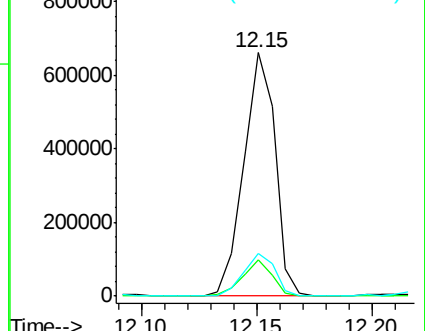
203 17.5 0.0 38.1

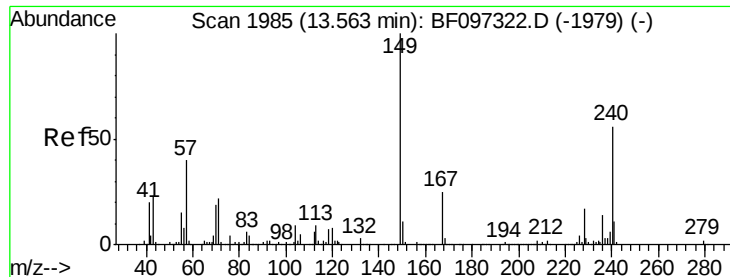


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.57 min Scan# 1986

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :

BNA_F

ClientSampleId :

72-12020DL

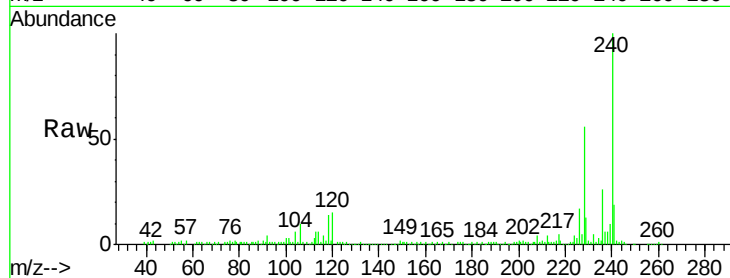
Tgt Ion:240 Resp: 151728

Ion Ratio Lower Upper

240 100

120 15.1 5.8 8.8#

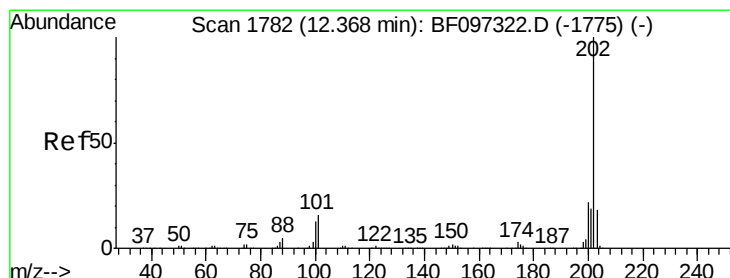
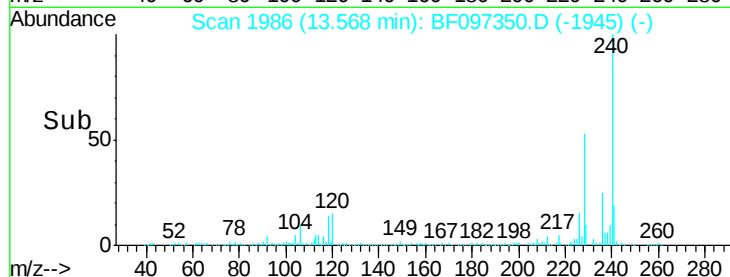
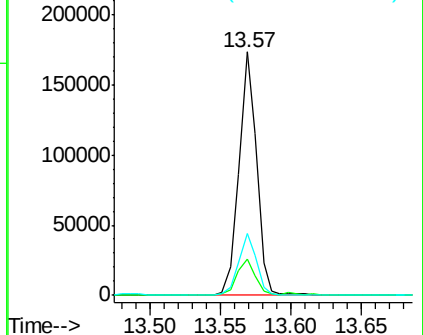
236 25.6 20.5 30.7



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: 52.296 ng

RT: 12.37 min Scan# 1783

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

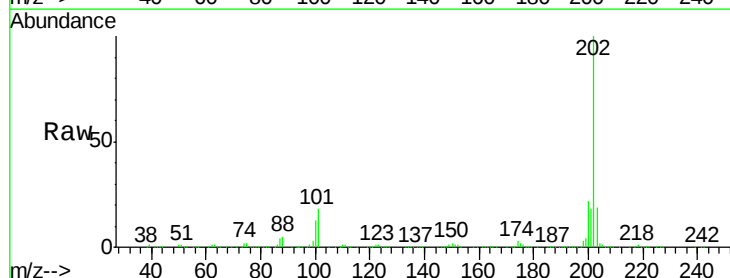
Tgt Ion:202 Resp: 649597

Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

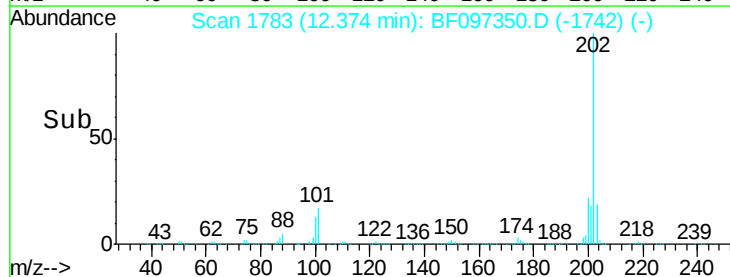
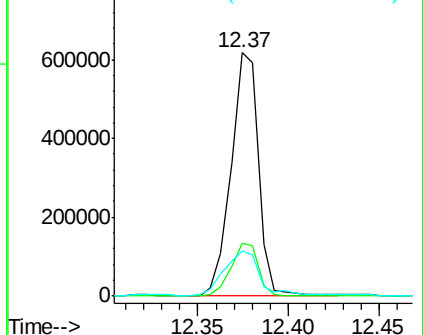
203 18.8 14.4 21.6

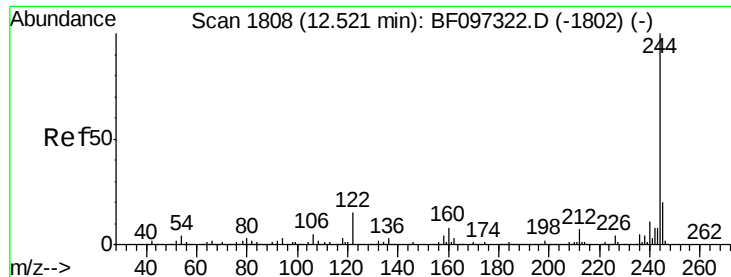


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

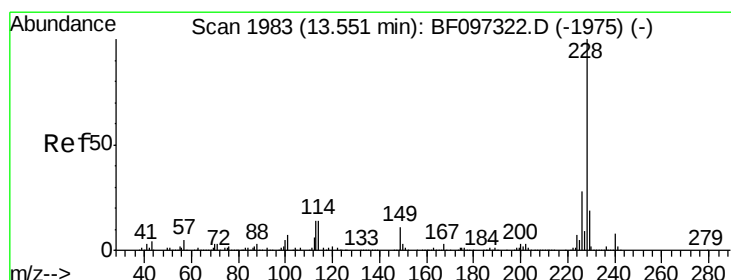
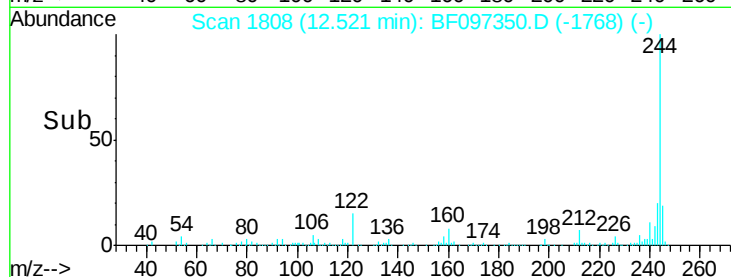
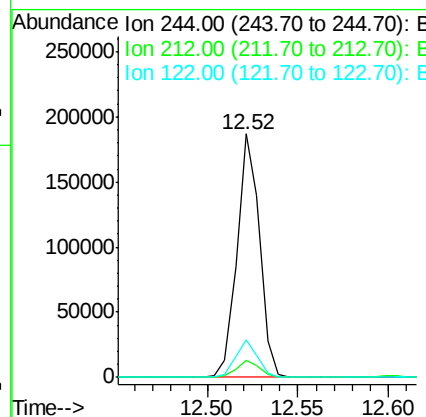
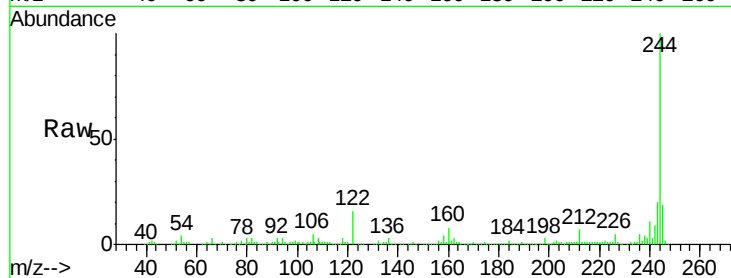




#78
 Terphenyl-d14
 Concen: 21.737 ng
 RT: 12.52 min Scan# 1808
 Delta R.T. -0.06 min
 Lab File: BF097350.D
 Acq: 4 Aug 2017 9:31

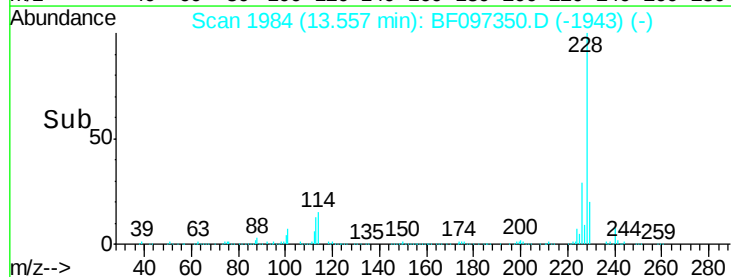
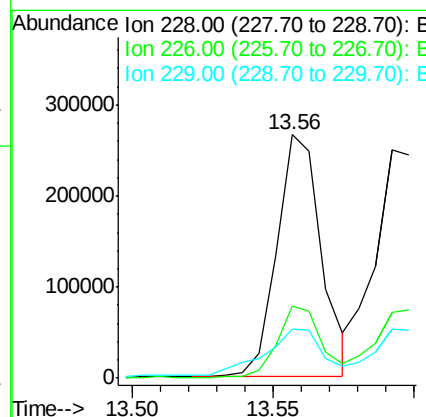
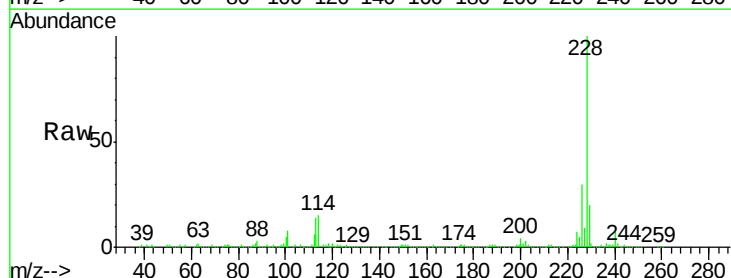
Instrument :
 BNA_F
 ClientSampleId :
 72-12020DL

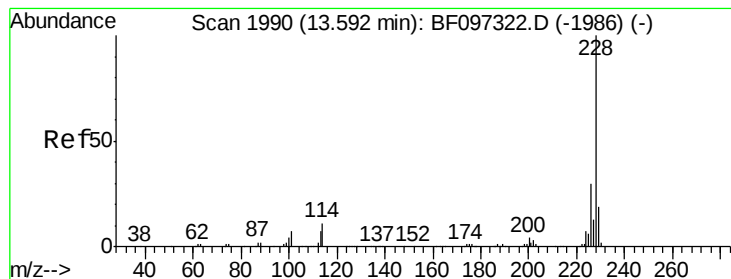
Tgt Ion:244 Resp: 161760
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 15.5 10.3 15.5#



#80
 Benzo(a)anthracene
 Concen: 29.649 ng
 RT: 13.56 min Scan# 1984
 Delta R.T. -0.06 min
 Lab File: BF097350.D
 Acq: 4 Aug 2017 9:31

Tgt Ion:228 Resp: 291080
 Ion Ratio Lower Upper
 228 100
 226 29.6 22.6 33.8
 229 20.3 16.3 24.5





#82

Chrysene

Concen: 28.235 ng

RT: 13.59 min Scan# 1990

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :

BNA_F

ClientSampleId :

72-12020DL

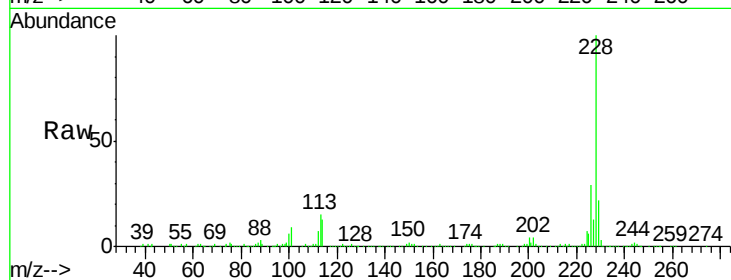
Tgt Ion:228 Resp: 270674

Ion Ratio Lower Upper

228 100

226 28.8 24.9 37.3

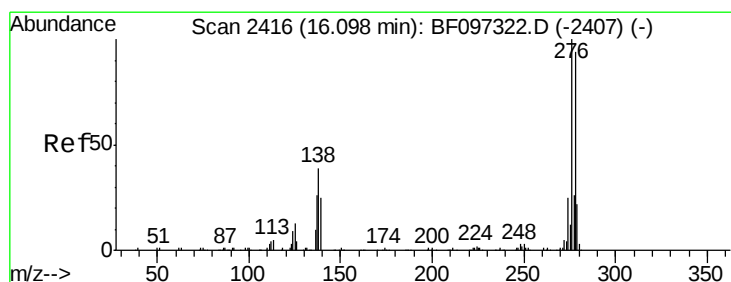
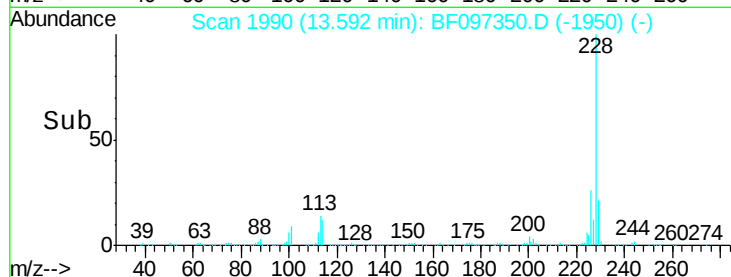
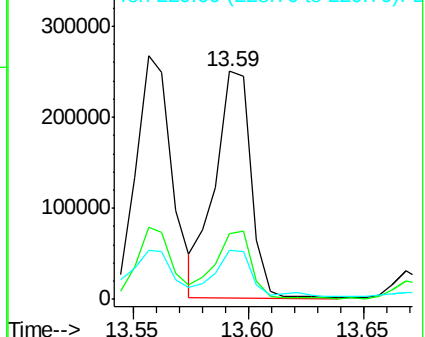
229 21.7 15.8 23.6



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: 11.738 ng

RT: 16.12 min Scan# 2419

Delta R.T. -0.09 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

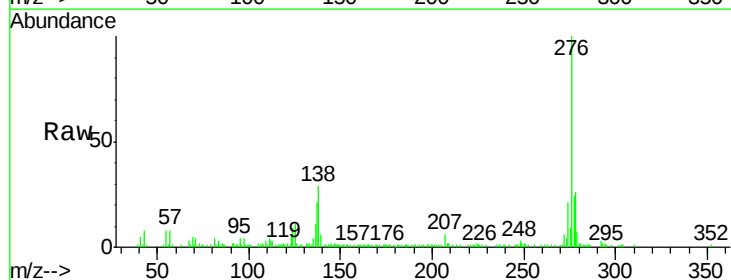
Tgt Ion:276 Resp: 96488

Ion Ratio Lower Upper

276 100

138 31.8 27.8 41.6

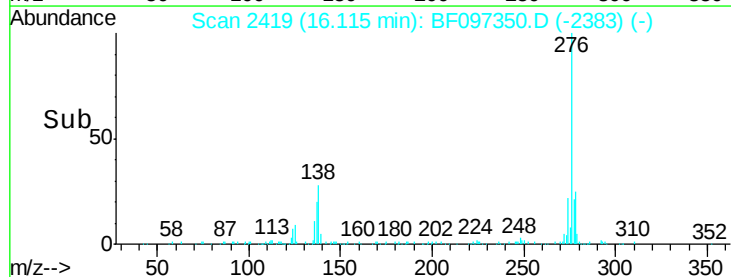
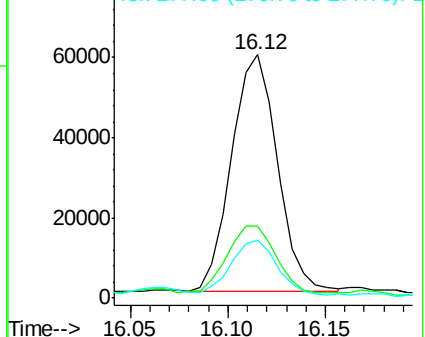
277 23.3 20.2 30.4

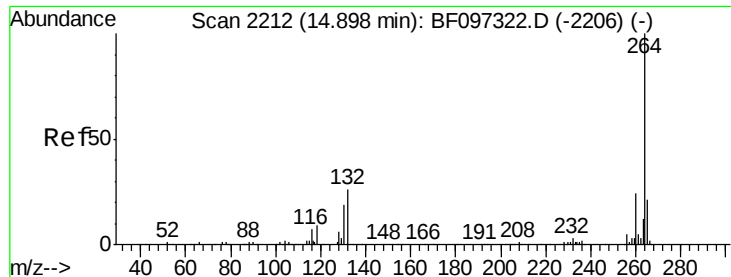


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.000 ng

RT: 14.91 min Scan# 2214

Delta R.T. -0.06 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :

BNA_F

ClientSampleId :

72-12020DL

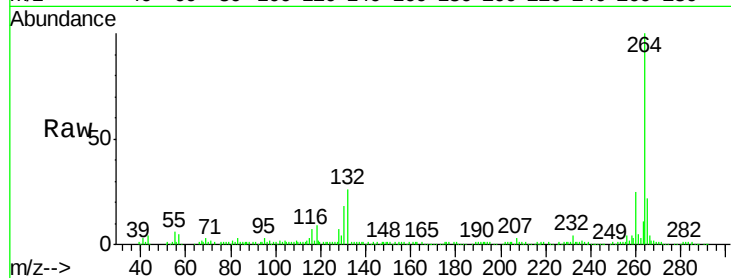
Tgt Ion:264 Resp: 113028

Ion Ratio Lower Upper

264 100

260 25.1 19.5 29.3

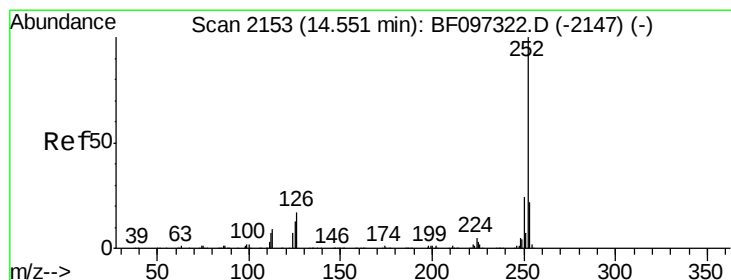
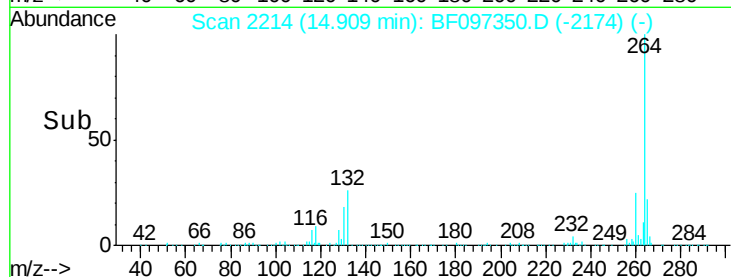
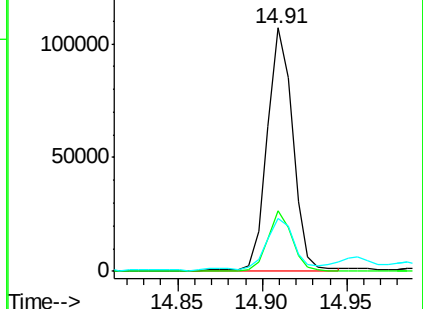
265 21.8 17.2 25.8



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: 48.971 ng

RT: 14.56 min Scan# 2155

Delta R.T. -0.05 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

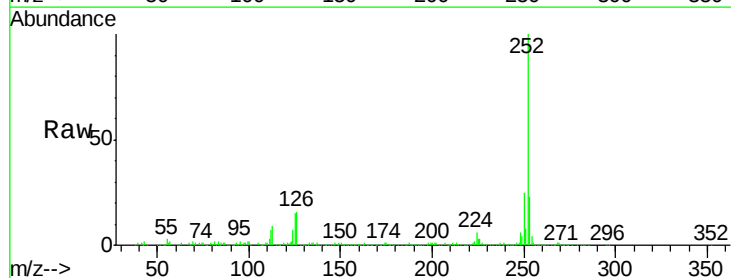
Tgt Ion:252 Resp: 332725

Ion Ratio Lower Upper

252 100

253 23.2 18.1 27.1

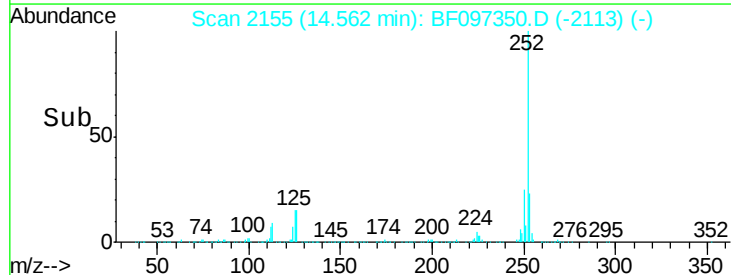
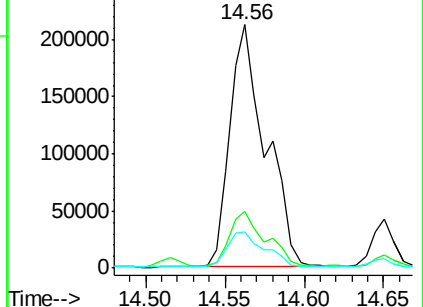
125 14.9 9.8 14.8#

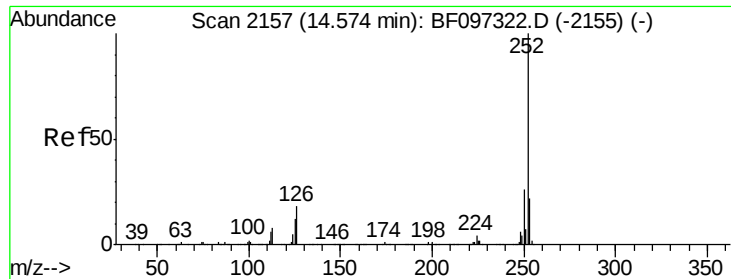


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 51.391 ng

RT: 14.56 min Scan# 2155

Delta R.T. -0.08 min

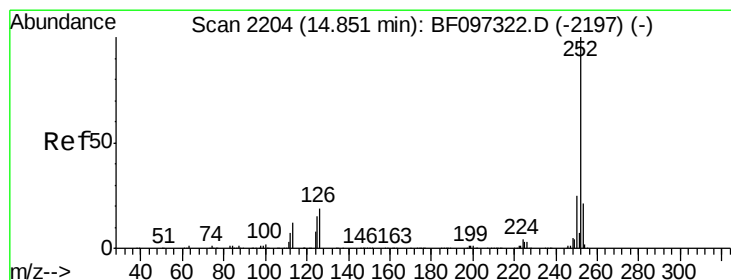
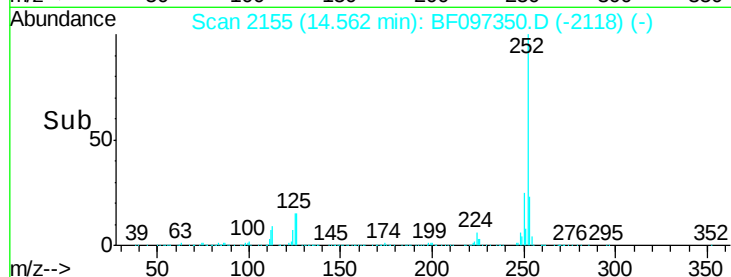
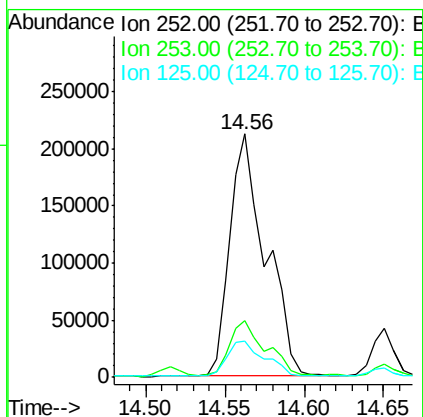
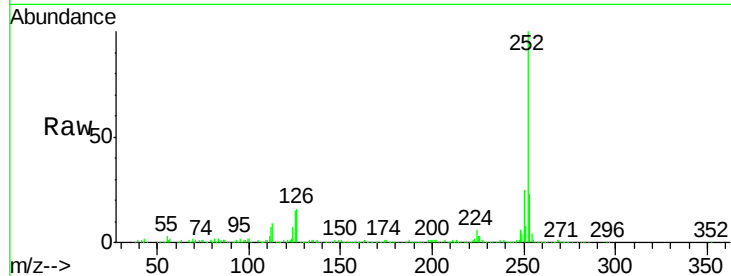
Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :
BNA_F
ClientSampleId :
72-12020DL

Tgt Ion: 252 Resp: 332725

Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.4	27.6
125	14.9	13.1	19.7



#89

Benzo(a)pyrene

Concen: 30.820 ng

RT: 14.86 min Scan# 2206

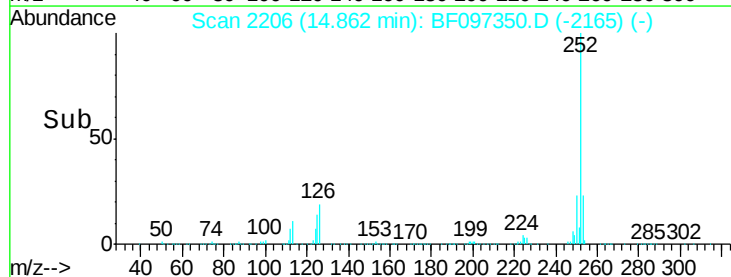
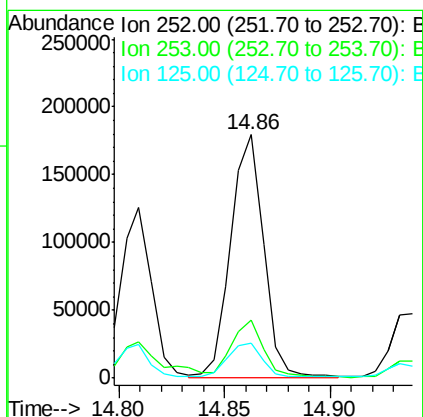
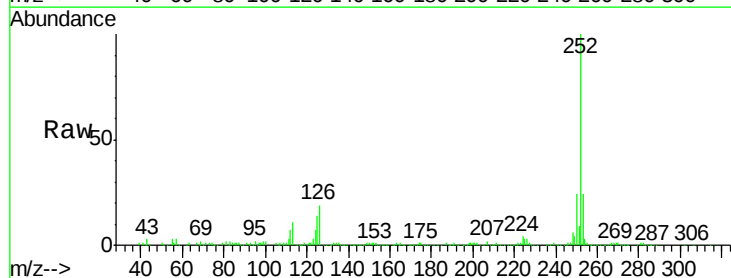
Delta R.T. -0.06 min

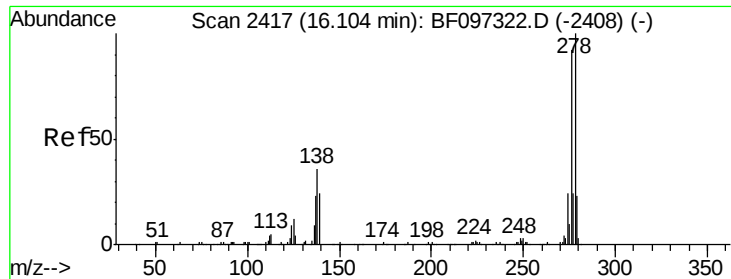
Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Tgt Ion: 252 Resp: 191648

Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	14.3	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 5.173 ng

RT: 16.12 min Scan# 2419

Delta R.T. -0.10 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

Instrument :

BNA_F

ClientSampleId :

72-12020DL

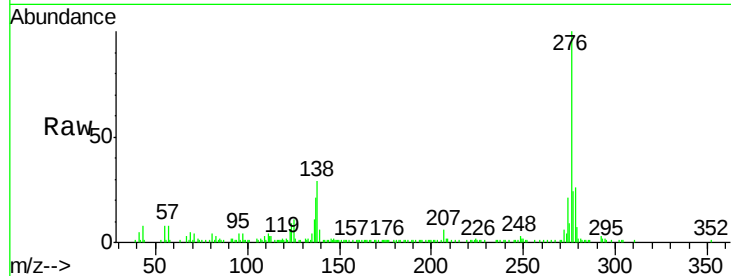
Tgt Ion:278 Resp: 26381

Ion Ratio Lower Upper

278 100

139 23.6 16.6 24.8

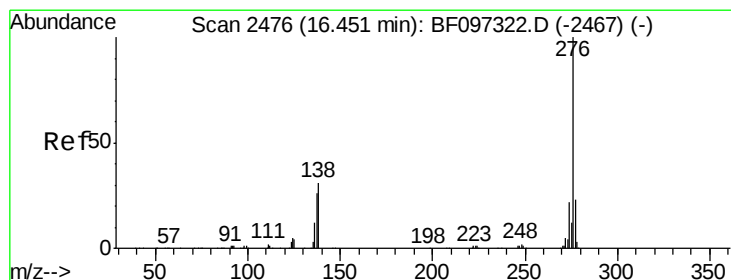
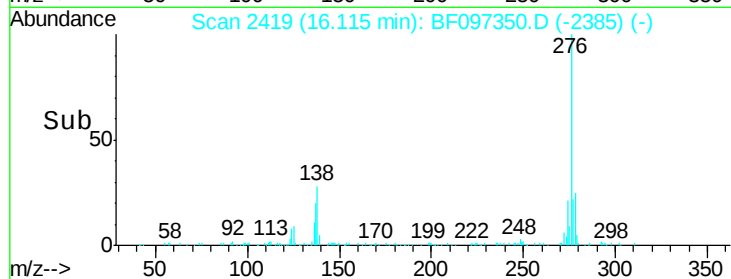
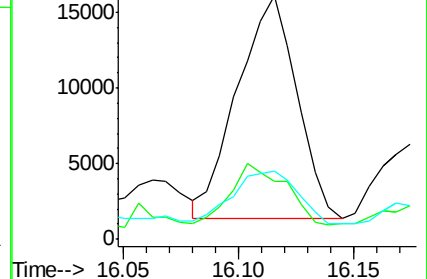
279 28.1 19.3 28.9



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 17.719 ng

RT: 16.47 min Scan# 2479

Delta R.T. -0.10 min

Lab File: BF097350.D

Acq: 4 Aug 2017 9:31

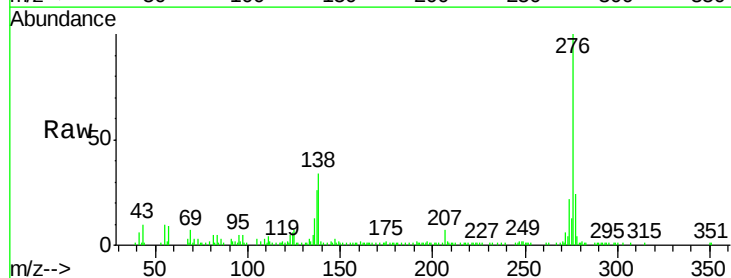
Tgt Ion:276 Resp: 94753

Ion Ratio Lower Upper

276 100

277 23.7 18.6 28.0

138 34.0 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

