

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012617\
 Data File : BF092580.D
 Acq On : 27 Jan 2017 16:33
 Operator : SJ/MA
 Sample : I1265-01RE 2X
 Misc :
 ALS Vial : 65 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 27 17:15:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 13:48:07 2017
 Response via : Initial Calibration

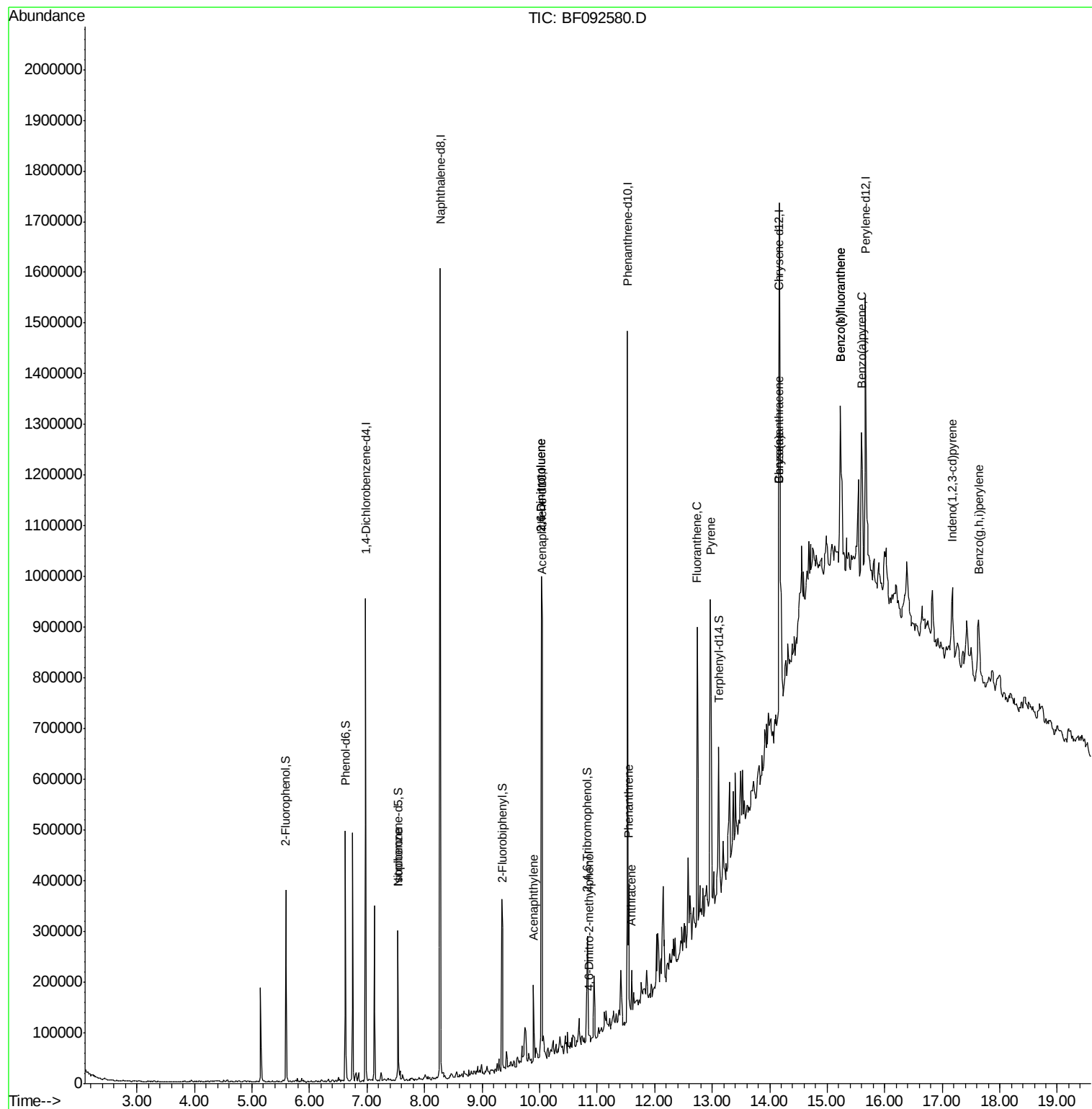
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.98	152	168830	20.00	ng	0.01
21) Naphthalene-d8	8.27	136	662266	20.00	ng	0.00
38) Acenaphthene-d10	10.04	164	314661	20.00	ng	0.01
63) Phenanthrene-d10	11.53	188	479672	20.00	ng	0.00
75) Chrysene-d12	14.17	240	326060	20.00	ng	0.00
86) Perylene-d12	15.67	264	279330	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	119991	11.06	ng	0.03
7) Phenol-d6	6.62	99	156521	11.32	ng	0.03
23) Nitrobenzene-d5	7.54	82	82329	6.79	ng	0.00
41) 2,4,6-Tribromophenol	10.83	330	22561	10.52	ng	0.01
44) 2-Fluorobiphenyl	9.36	172	158029	9.29	ng	0.00
78) Terphenyl-d14	13.12	244	127466	10.41	ng	0.00
Target Compounds						
25) Isophorone	7.54	82	77181	3.23	ng	# 65
48) Acenaphthylene	9.89	152	59338	2.18	ng	98
50) 2,6-Dinitrotoluene	10.03	165	41388	10.12	ng	# 31
56) 2,4-Dinitrotoluene	10.03	165	43346	7.98	ng	# 20
64) 4,6-Dinitro-2-methylphenol	10.85	198	231	5.03	ng	# 1
70) Phenanthrene	11.55	178	89965	3.41	ng	98
71) Anthracene	11.60	178	52253	2.02	ng	98
74) Fluoranthene	12.74	202	268753	10.40	ng	97
77) Pyrene	12.97	202	326551	13.82	ng	98
80) Benzo(a)anthracene	14.16	228	184854	10.55	ng	91
82) Chrysene	14.16	228	184854	9.88	ng	96
85) Indeno(1,2,3-cd)pyrene	17.17	276	87861	6.35	ng	94
87) Benzo(b)fluoranthene	15.23	252	256785	14.32	ng	# 94
88) Benzo(k)fluoranthene	15.23	252	256600	17.21	ng	# 93
89) Benzo(a)pyrene	15.60	252	146453	9.65	ng	# 91
91) Benzo(g,h,i)perylene	17.63	276	88143	7.11	ng	# 87

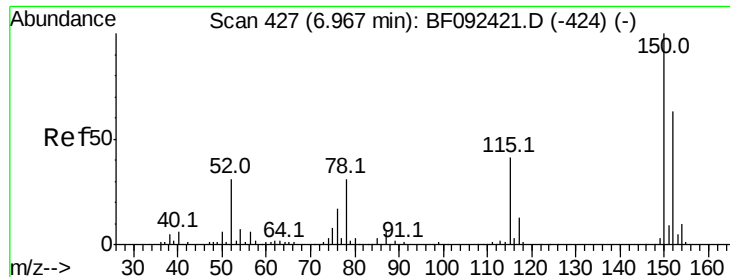
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.98 min Scan# 428

Delta R.T. 0.01 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Instrument :

BNA_F

ClientSampleId :

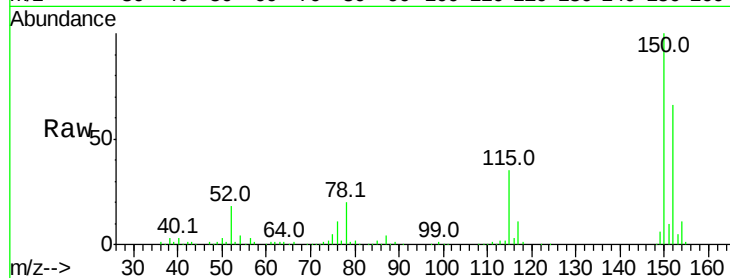
Tot Ion:152 Resp: 168830

Ion Ratio Lower Upper

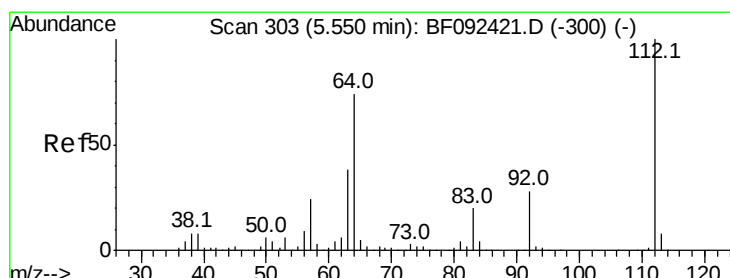
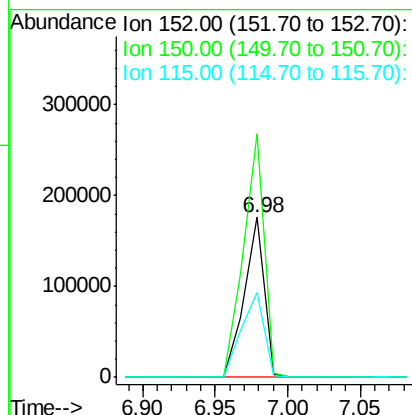
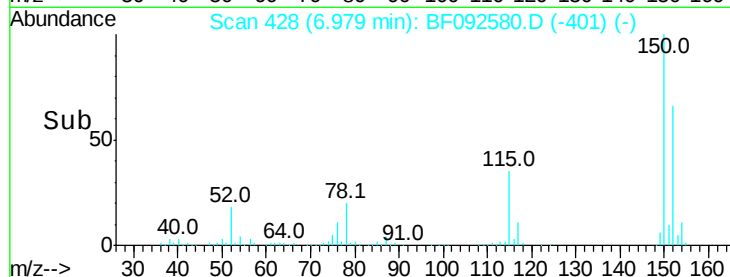
152 100

150 152.2 124.9 187.3

115 53.0 46.0 69.0



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: 11.06 ng

RT: 5.58 min Scan# 306

Delta R.T. 0.03 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

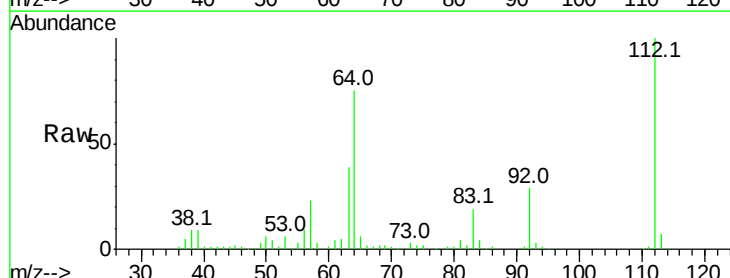
Tgt Ion:112 Resp: 119991

Ion Ratio Lower Upper

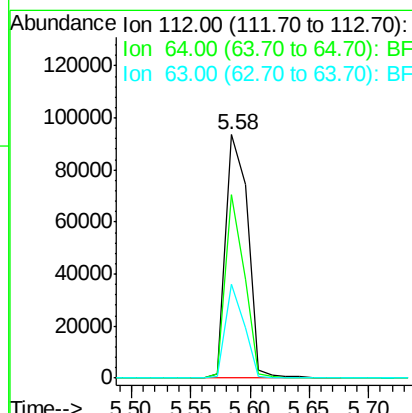
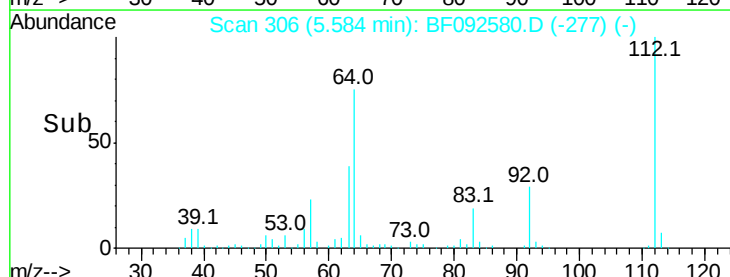
112 100

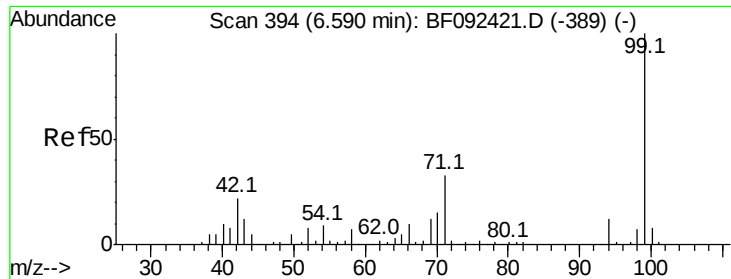
64 75.2 46.1 69.1#

63 38.5 23.8 35.6#



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: 11.32 ng

RT: 6.62 min Scan# 397

Delta R.T. 0.03 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Instrument :

BNA_F

ClientSampleId :

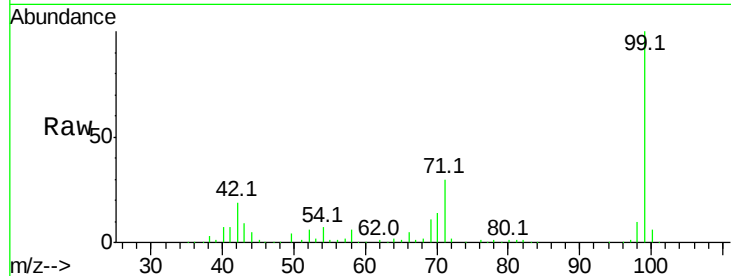
Tot Ion: 99 Resp: 156521

Ion Ratio Lower Upper

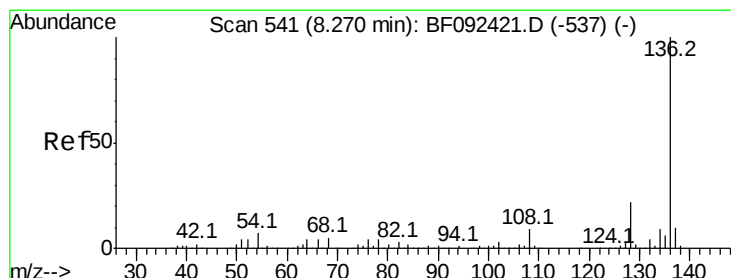
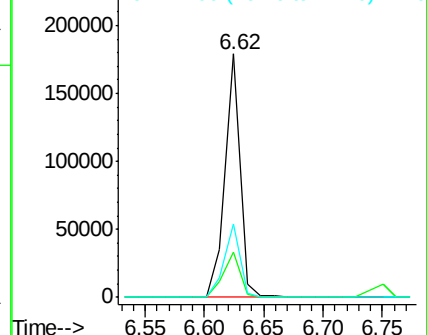
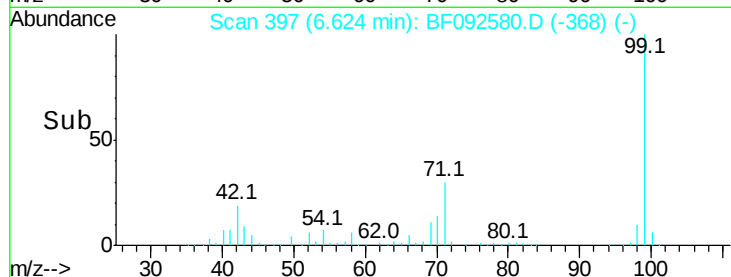
99 100

42 18.8 15.6 23.4

71 30.1 27.5 41.3



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: 20.00 ng

RT: 8.27 min Scan# 541

Delta R.T. 0.00 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Tgt Ion: 136 Resp: 662266

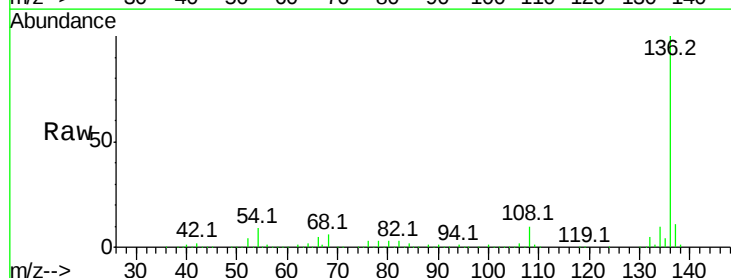
Ion Ratio Lower Upper

136 100

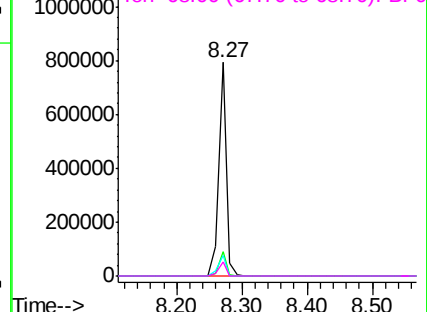
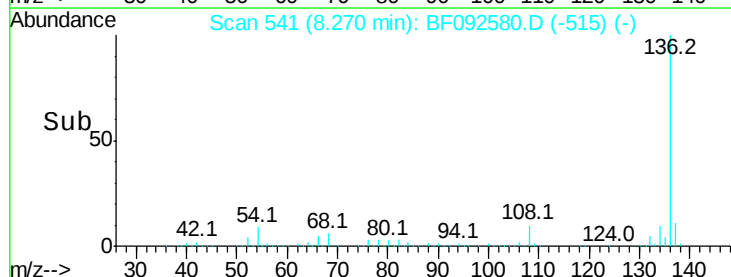
137 11.1 8.4 12.6

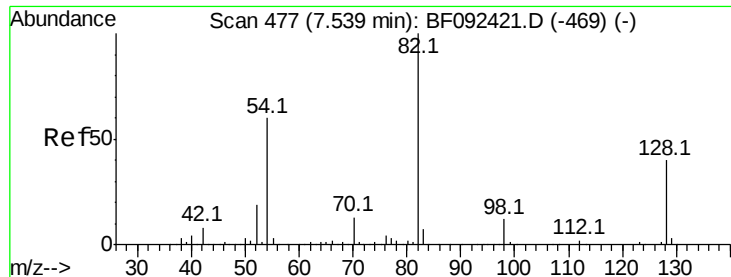
54 9.3 4.5 6.7#

68 6.3 3.6 5.4#



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

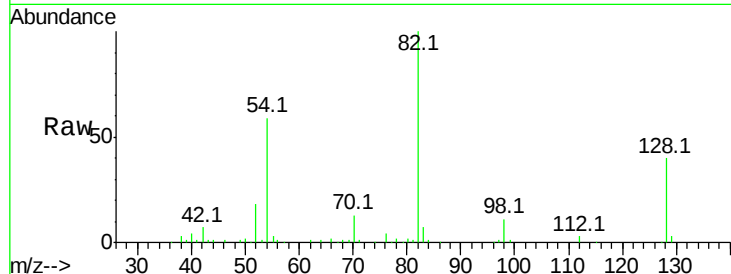




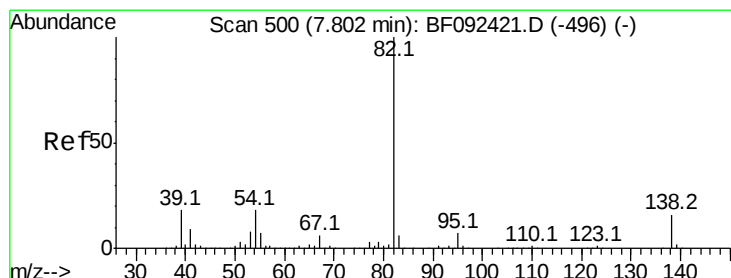
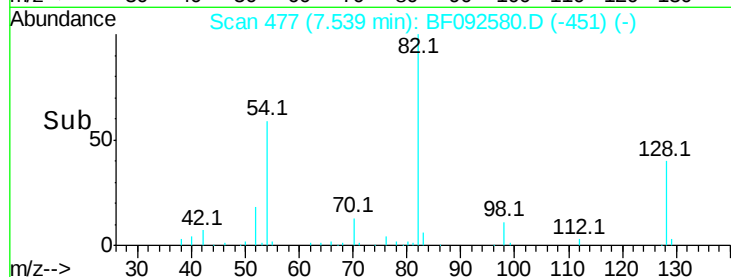
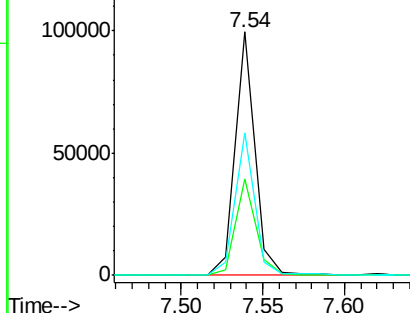
#23
Nitrobenzene-d5
Concen: 6.79 ng
RT: 7.54 min Scan# 477
Delta R.T. 0.00 min
Lab File: BF092580.D
Acq: 27 Jan 2017 16:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion	82	Resp	82329
Ion Ratio	Lower	Upper	
82	100		
128	39.8	34.6	52.0
54	58.7	39.5	59.3

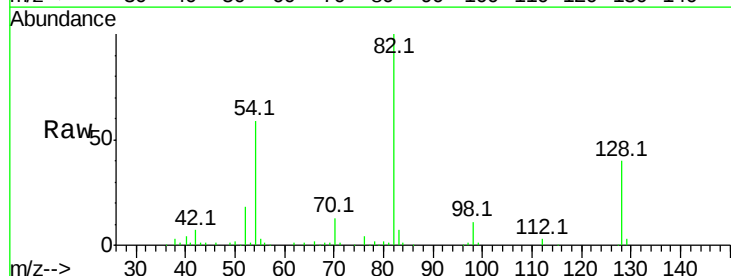


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): BF0
Ion 54.00 (53.70 to 54.70): BF0

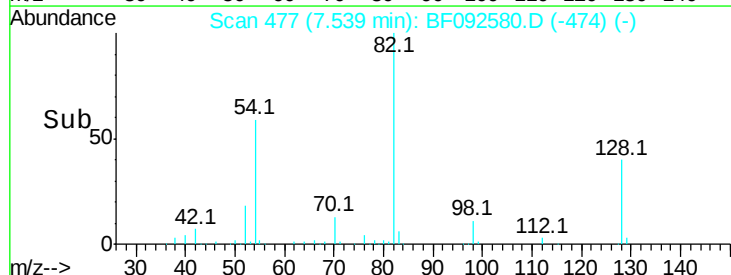
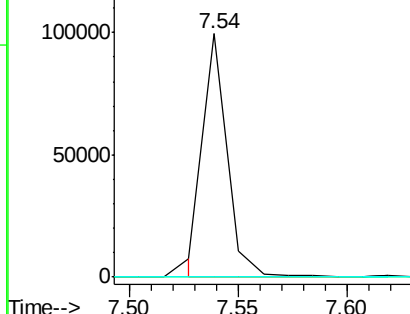


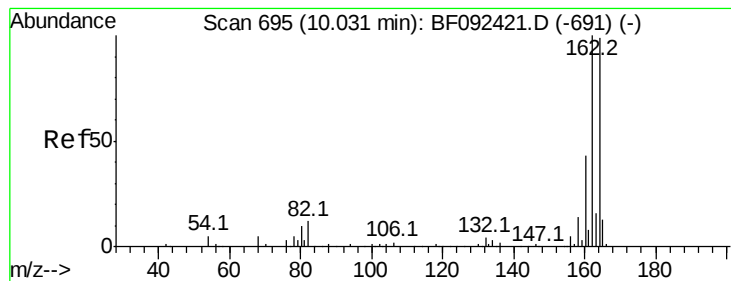
#25
Isophorone
Concen: 3.23 ng
RT: 7.54 min Scan# 477
Delta R.T. -0.26 min
Lab File: BF092580.D
Acq: 27 Jan 2017 16:33

Tgt Ion	82	Resp	77181
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.6	8.4#
138	0.0	14.6	22.0#



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





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.04 min Scan# 696

Delta R.T. 0.01 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Instrument :

BNA_F

ClientSampleId :

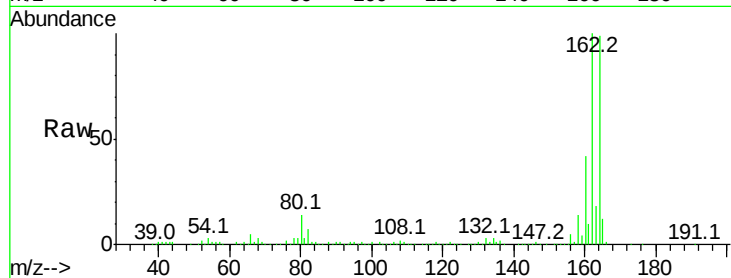
Tot Ion:164 Resp: 314661

Ion Ratio Lower Upper

164 100

162 101.2 80.2 120.2

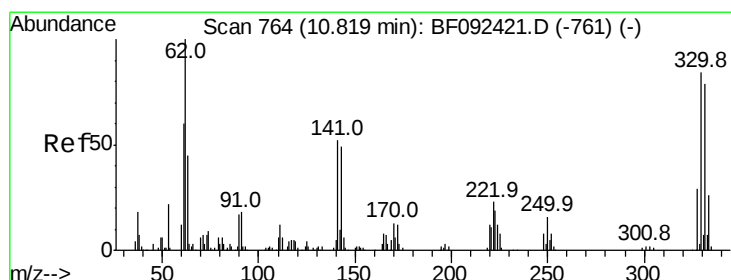
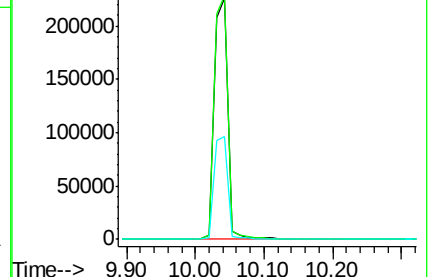
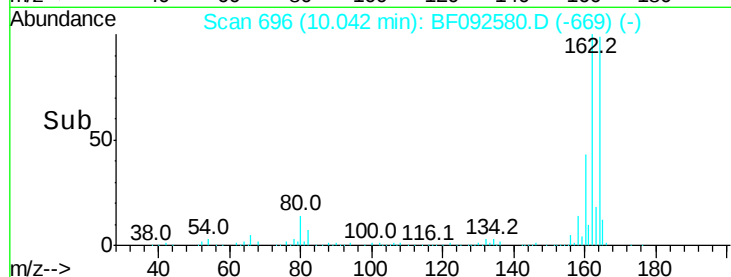
160 43.0 36.9 55.3



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: 10.52 ng

RT: 10.83 min Scan# 765

Delta R.T. 0.01 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

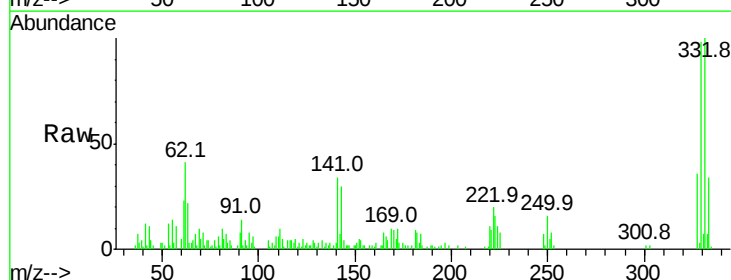
Tgt Ion:330 Resp: 22561

Ion Ratio Lower Upper

330 100

332 101.6 77.4 116.2

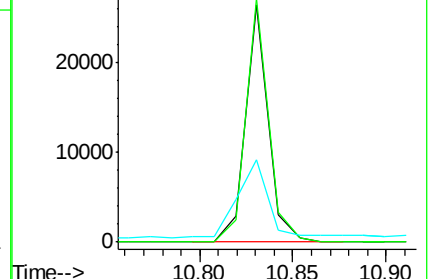
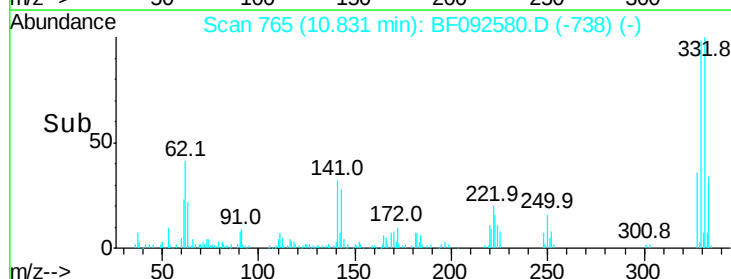
141 46.3 34.1 51.1

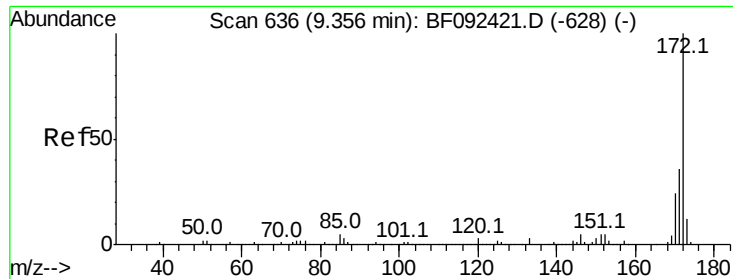


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

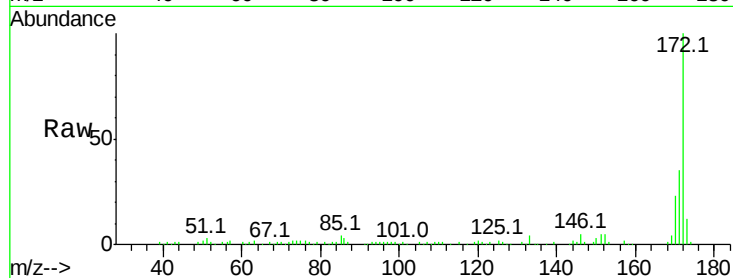




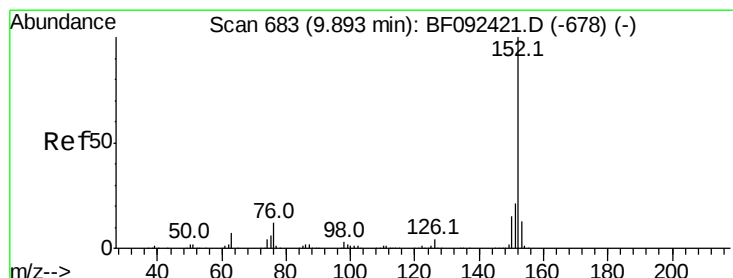
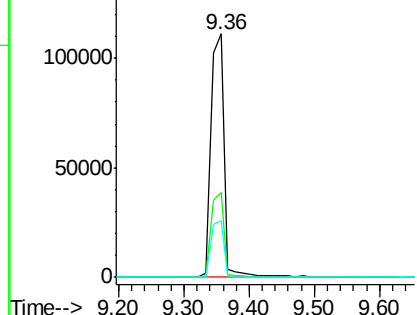
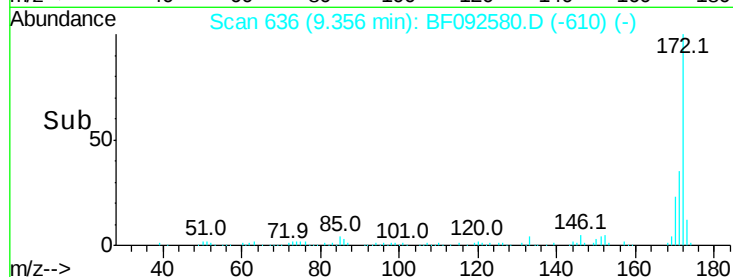
#44
 2-Fluorobiphenyl
 Concen: 9.29 ng
 RT: 9.36 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: BF092580.D
 Acq: 27 Jan 2017 16:33

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 158029
 Ion Ratio Lower Upper
 172 100
 171 34.8 29.4 44.0
 170 23.2 20.2 30.4

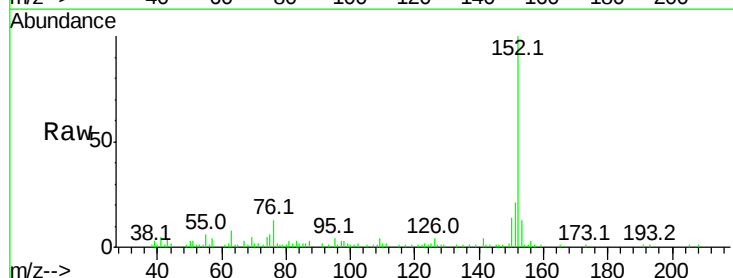


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

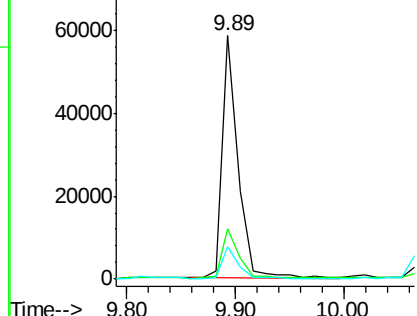
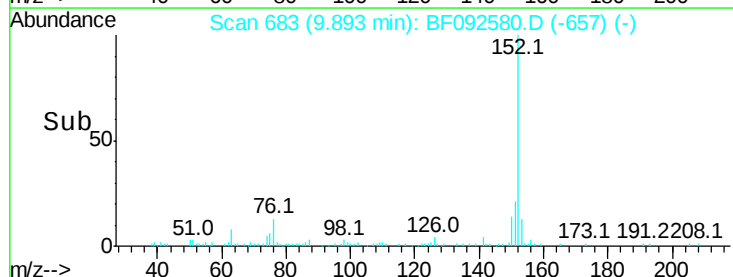


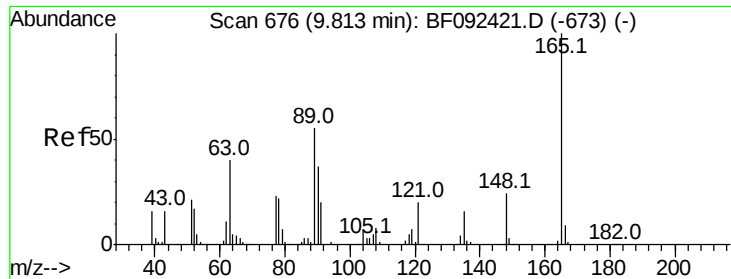
#48
 Acenaphthylene
 Concen: 2.18 ng
 RT: 9.89 min Scan# 683
 Delta R.T. 0.00 min
 Lab File: BF092580.D
 Acq: 27 Jan 2017 16:33

Tgt Ion:152 Resp: 59338
 Ion Ratio Lower Upper
 152 100
 151 20.6 16.9 25.3
 153 13.3 11.4 17.2



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E

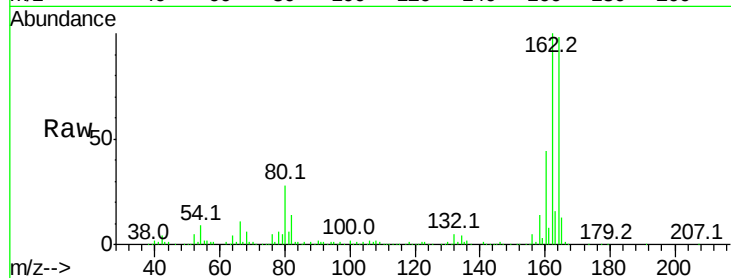




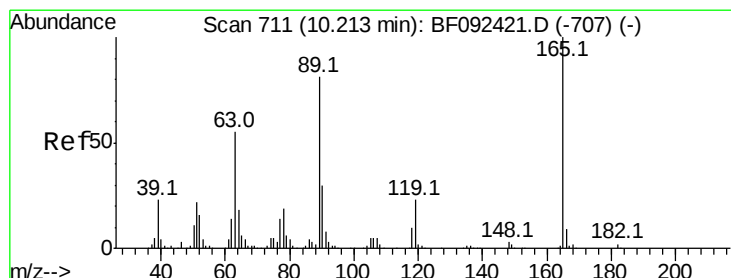
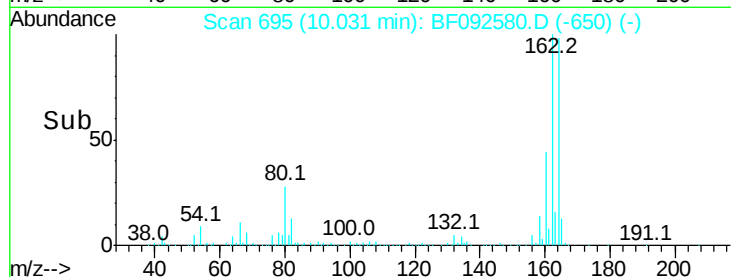
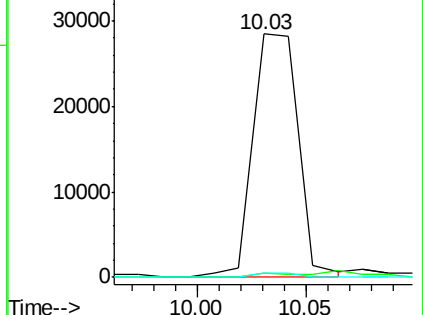
#50
2,6-Dinitrotoluene
Concen: 10.12 ng
RT: 10.03 min Scan# 695
Delta R.T. 0.22 min
Lab File: BF092580.D
Acq: 27 Jan 2017 16:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 41388
Ion Ratio Lower Upper
165 100
63 1.9 36.2 54.4#
89 1.5 40.2 60.4#

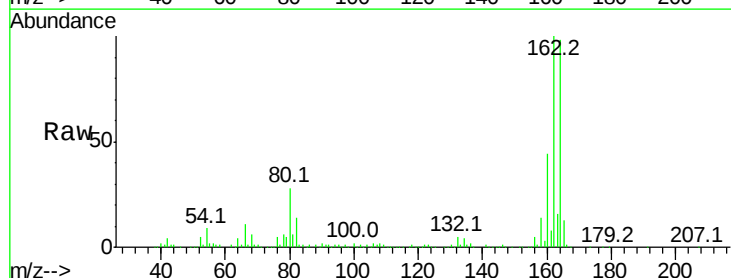


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

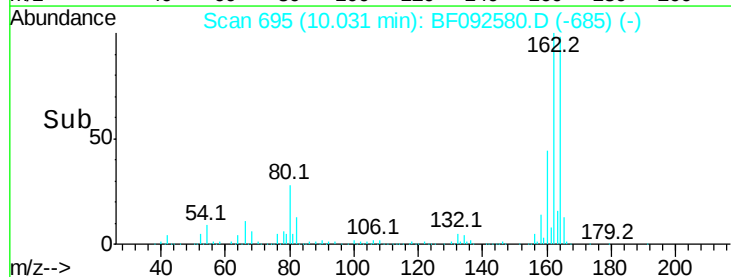
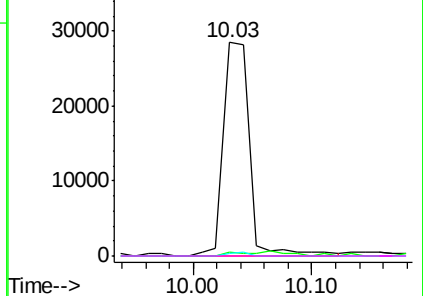


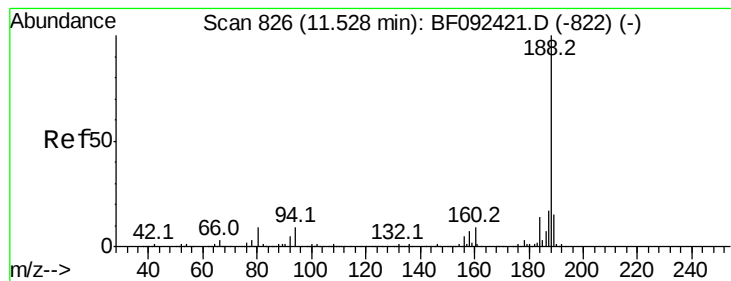
#56
2,4-Dinitrotoluene
Concen: 7.98 ng
RT: 10.03 min Scan# 695
Delta R.T. -0.18 min
Lab File: BF092580.D
Acq: 27 Jan 2017 16:33

Tgt Ion:165 Resp: 43346
Ion Ratio Lower Upper
165 100
63 1.9 40.2 60.4#
89 1.5 62.5 93.7#
182 0.0 1.8 2.8#



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
Ion 182.00 (181.70 to 182.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.53 min Scan# 826

Delta R.T. 0.00 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Instrument :

BNA_F

ClientSampleId :

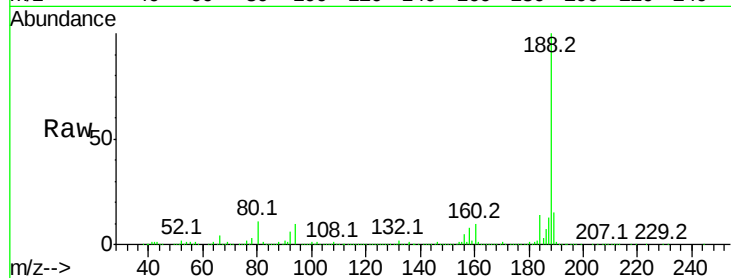
Tot Ion:188 Resp: 479672

Ion Ratio Lower Upper

188 100

94 10.1 10.0 15.0

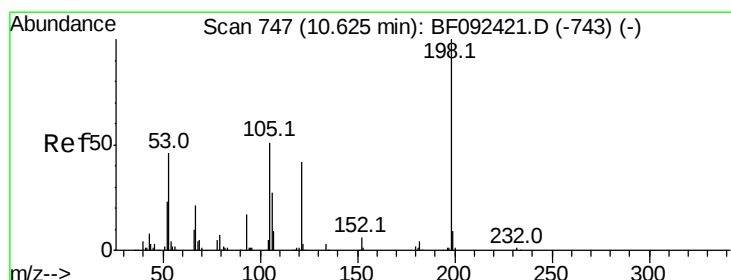
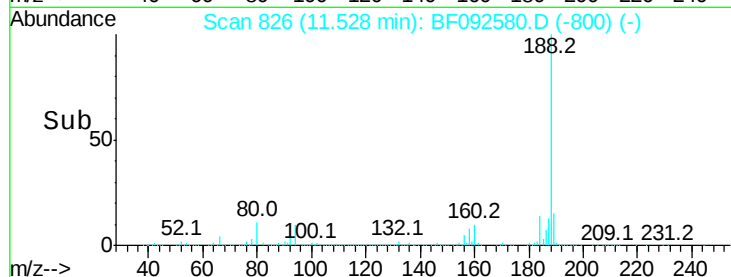
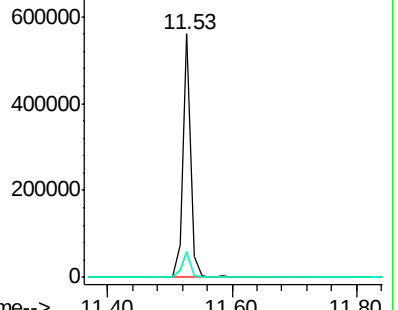
80 10.7 11.2 16.8#



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



#64

4,6-Dinitro-2-methylphenol

Concen: 5.03 ng

RT: 10.85 min Scan# 767

Delta R.T. 0.23 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

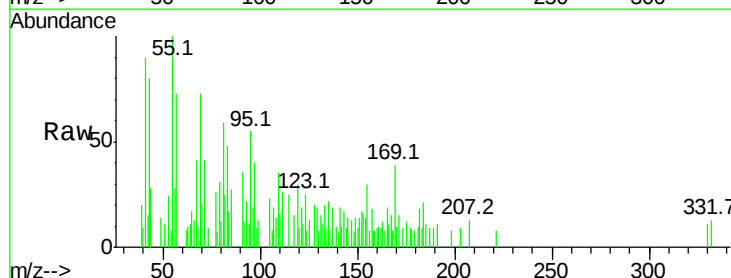
Tgt Ion:198 Resp: 231

Ion Ratio Lower Upper

198 100

51 142.7 6.7 46.7#

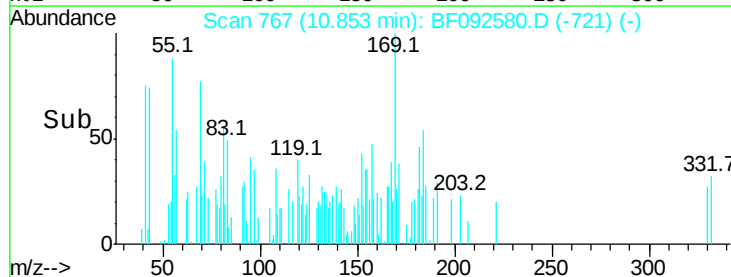
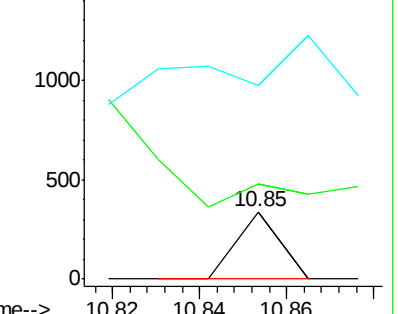
105 288.7 16.6 56.6#

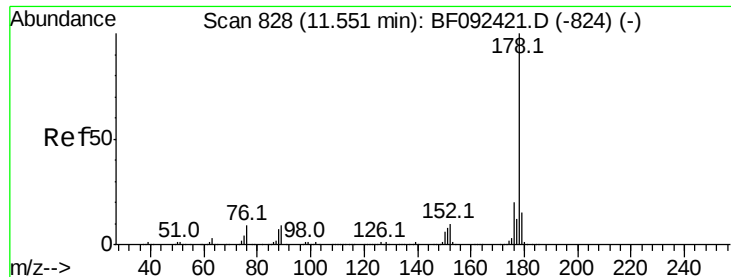


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E





#70

Phenanthrene

Concen: 3.41 ng

RT: 11.55 min Scan# 828

Delta R.T. 0.00 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Instrument :

BNA_F

ClientSampleId :

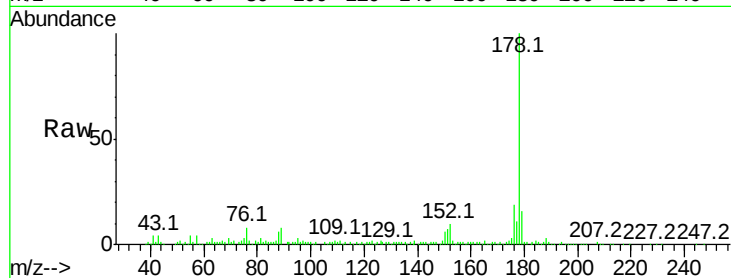
Tot Ion:178 Resp: 89965

Ion Ratio Lower Upper

178 100

176 19.1 16.6 25.0

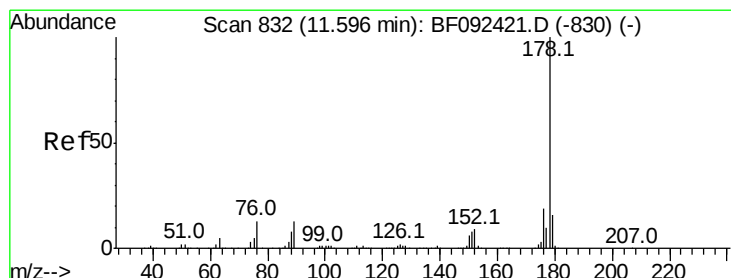
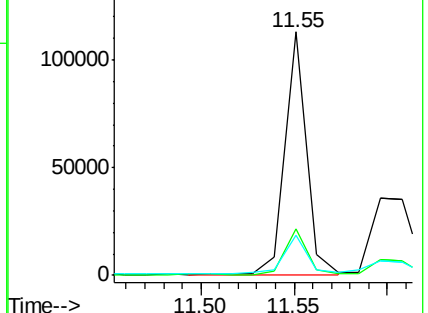
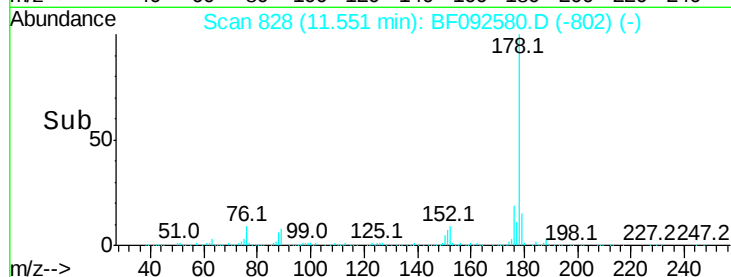
179 16.2 12.8 19.2



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



#71

Anthracene

Concen: 2.02 ng

RT: 11.60 min Scan# 832

Delta R.T. 0.00 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

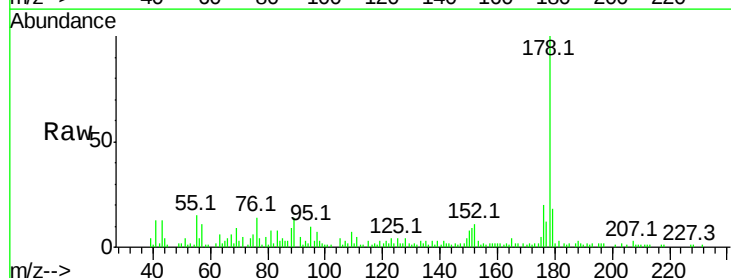
Tgt Ion:178 Resp: 52253

Ion Ratio Lower Upper

178 100

176 19.8 15.9 23.9

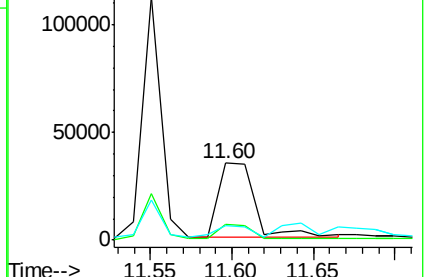
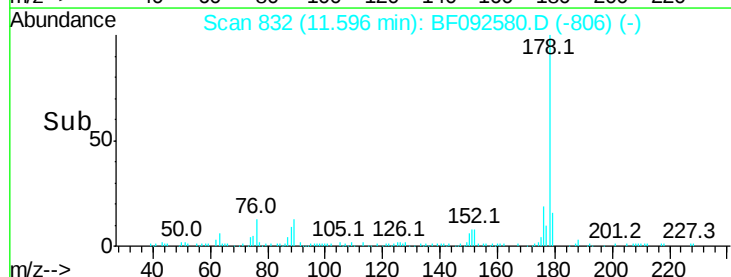
179 18.1 13.2 19.8

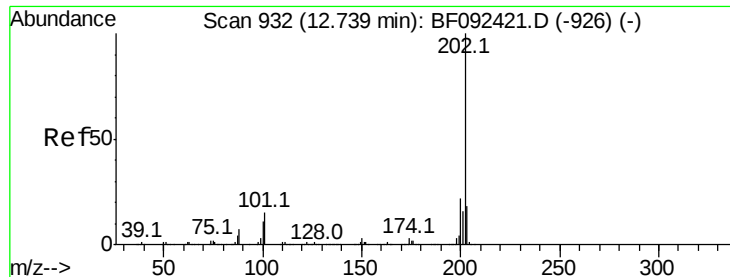


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 10.40 ng

RT: 12.74 min Scan# 932

Delta R.T. 0.00 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Instrument :

BNA_F

ClientSampleId :

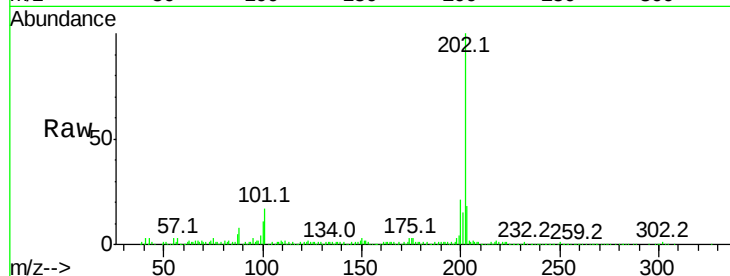
Tot Ion:202 Resp: 268753

Ion Ratio Lower Upper

202 100

101 16.6 0.0 34.6

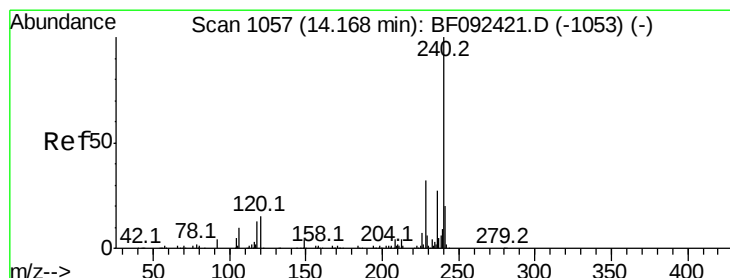
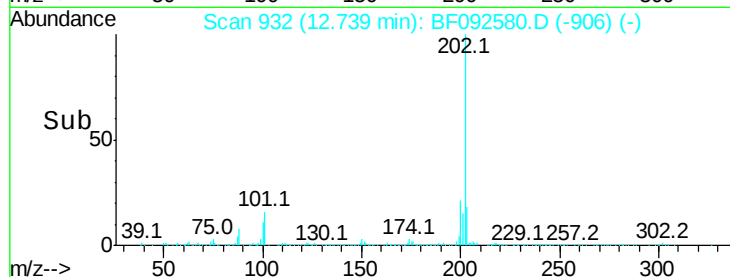
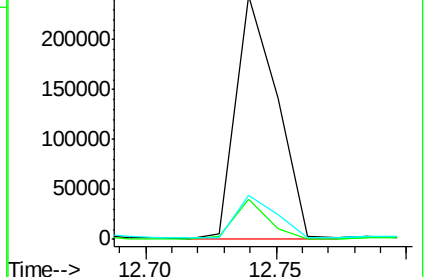
203 18.0 0.0 38.7



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: 20.00 ng

RT: 14.17 min Scan# 1057

Delta R.T. 0.00 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

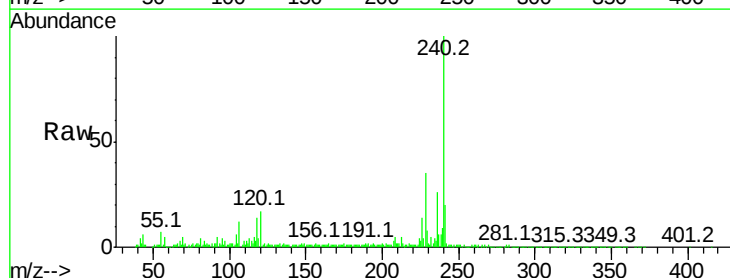
Tgt Ion:240 Resp: 326060

Ion Ratio Lower Upper

240 100

120 17.3 12.9 19.3

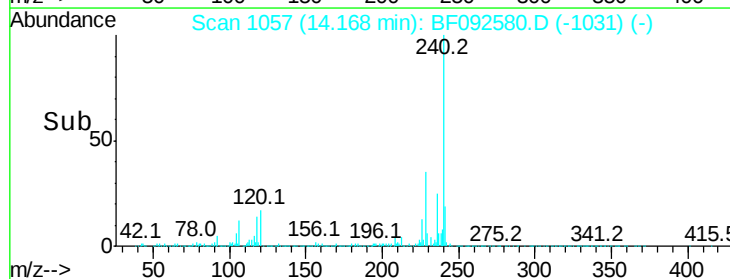
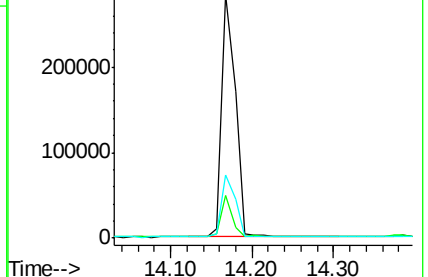
236 25.8 20.9 31.3

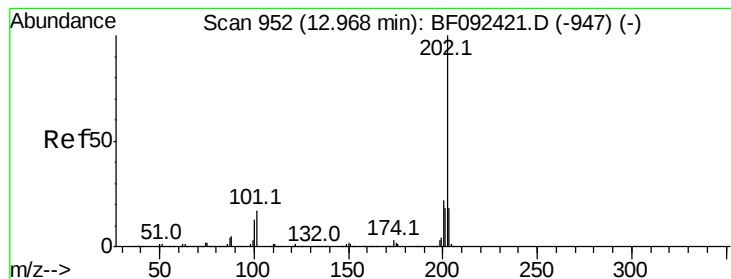


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 13.82 ng

RT: 12.97 min Scan# 952

Delta R.T. 0.00 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Instrument :
BNA_F
ClientSampleId :

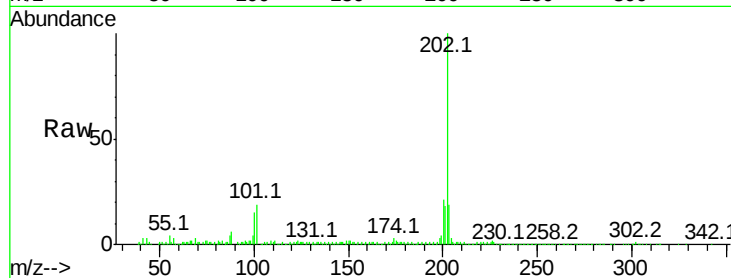
Tot Ion:202 Resp: 326551

Ion Ratio Lower Upper

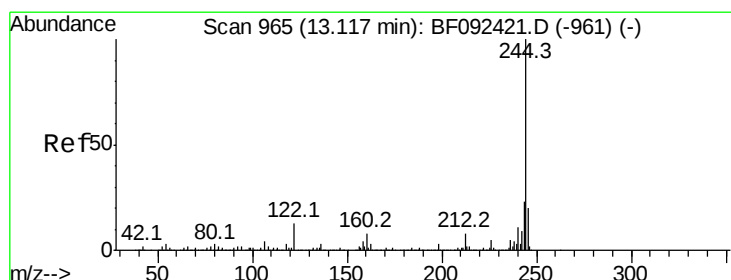
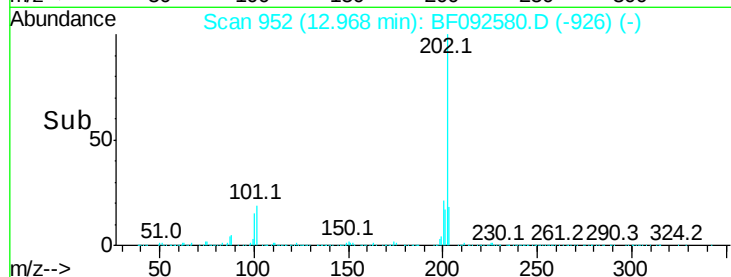
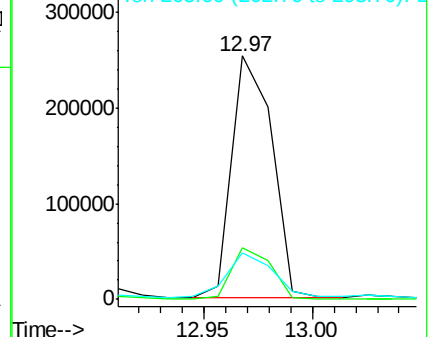
202 100

200 21.1 17.7 26.5

203 19.1 14.7 22.1



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: 10.41 ng

RT: 13.12 min Scan# 965

Delta R.T. 0.00 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

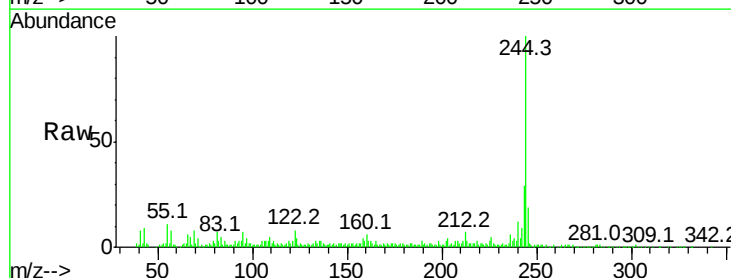
Tgt Ion:244 Resp: 127466

Ion Ratio Lower Upper

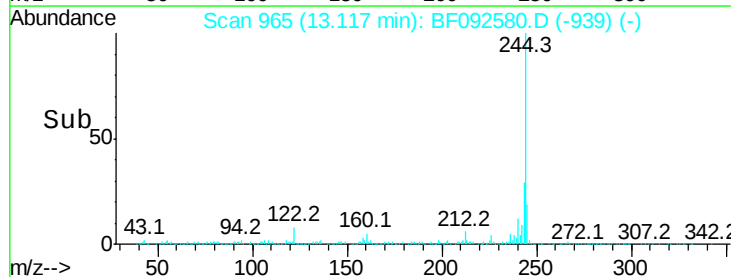
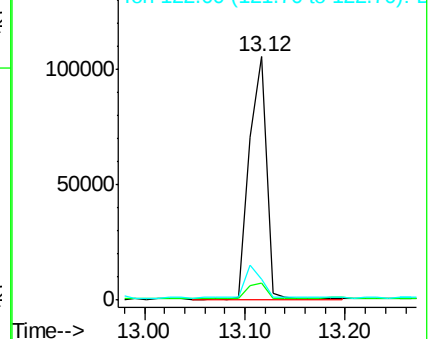
244 100

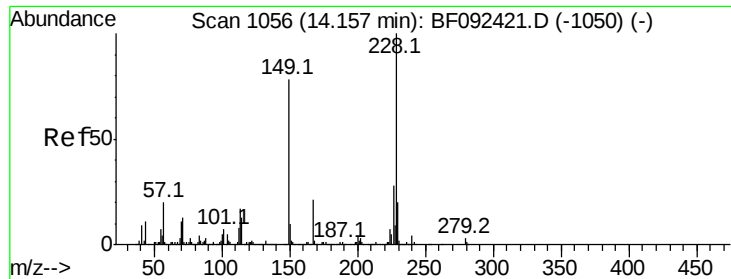
212 6.9 6.2 9.2

122 8.5 11.4 17.2#



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: 10.55 ng

RT: 14.16 min Scan# 1056

Delta R.T. 0.00 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Instrument :

BNA_F

ClientSampleId :

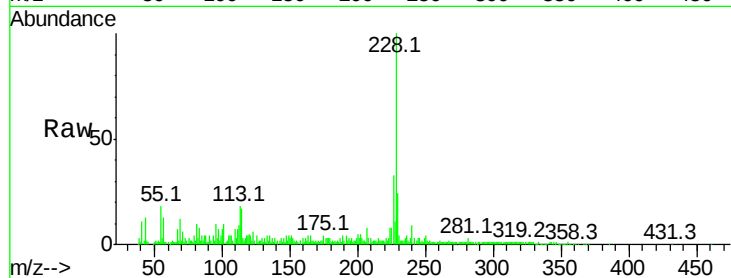
Tot Ion:228 Resp: 184854

Ion Ratio Lower Upper

228 100

226 32.8 22.4 33.6

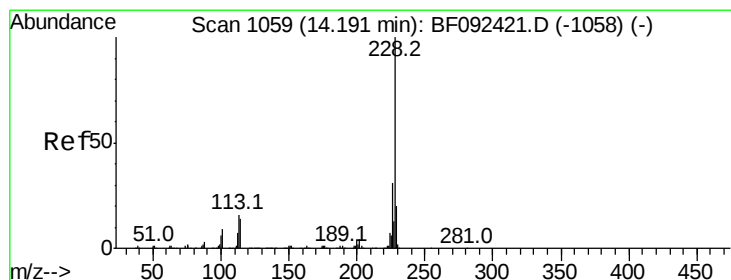
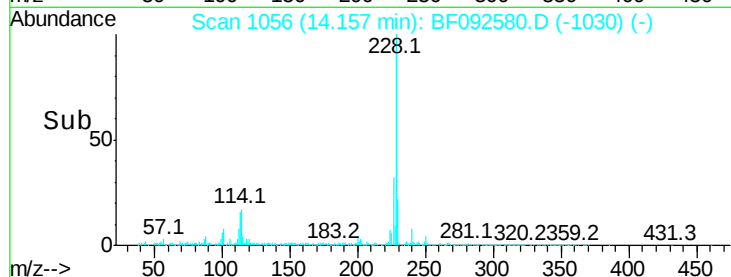
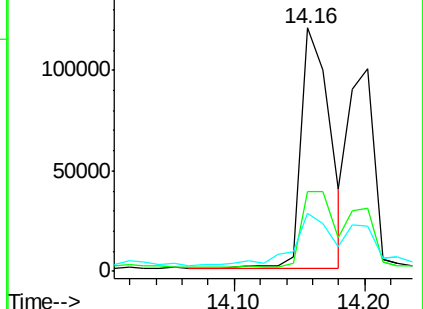
229 24.0 16.2 24.4



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: 9.88 ng

RT: 14.16 min Scan# 1056

Delta R.T. -0.03 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

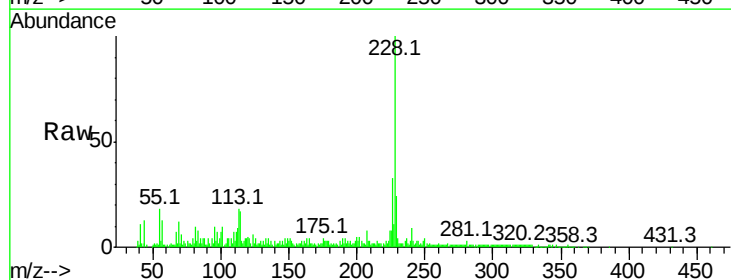
Tgt Ion:228 Resp: 184854

Ion Ratio Lower Upper

228 100

226 32.8 25.4 38.0

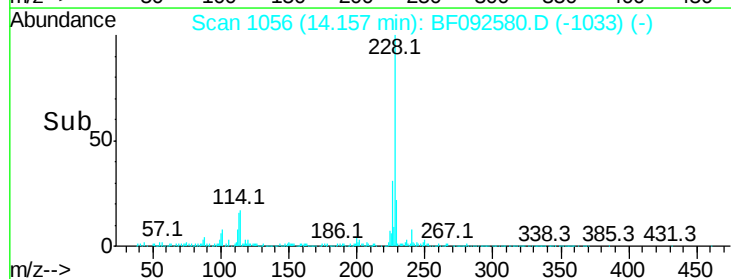
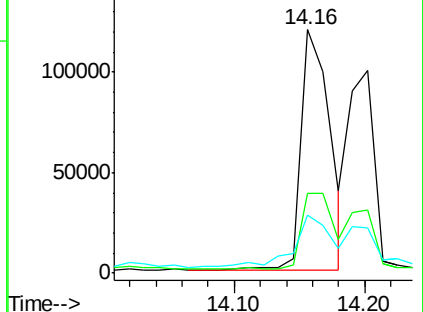
229 24.0 16.2 24.2

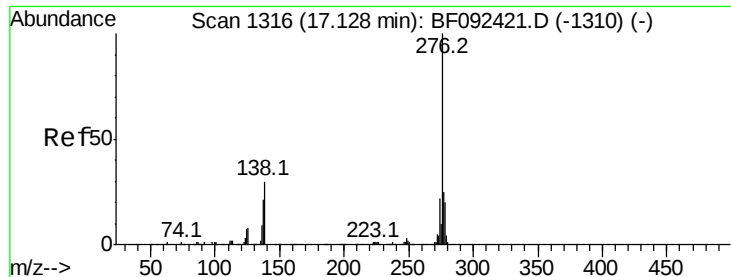


Abundance Ion 228.00 (227.70 to 228.70): E

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: 6.35 ng

RT: 17.17 min Scan# 1320

Delta R.T. 0.05 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

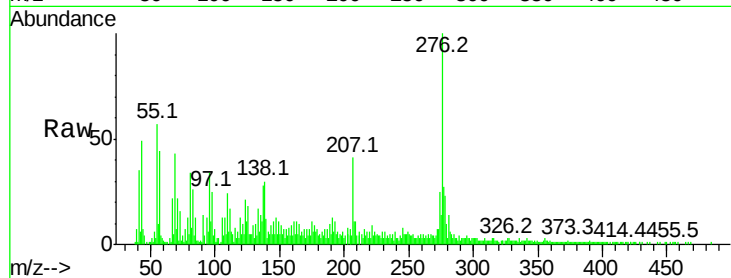
Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 87861

Ion	Ratio	Lower	Upper
276	100		
138	30.7	21.8	32.6
277	27.6	20.2	30.4

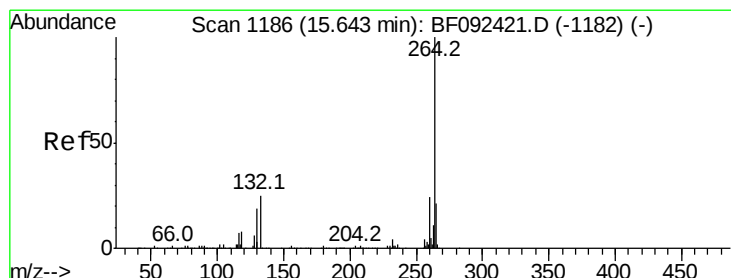
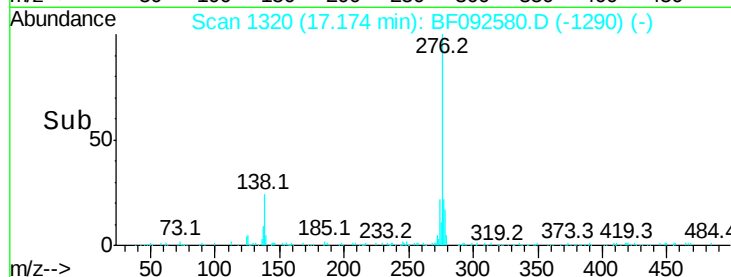
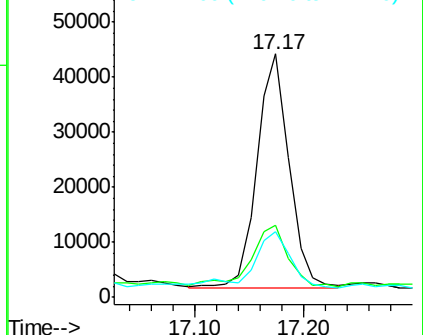


Abundance

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: 20.00 ng

RT: 15.67 min Scan# 1188

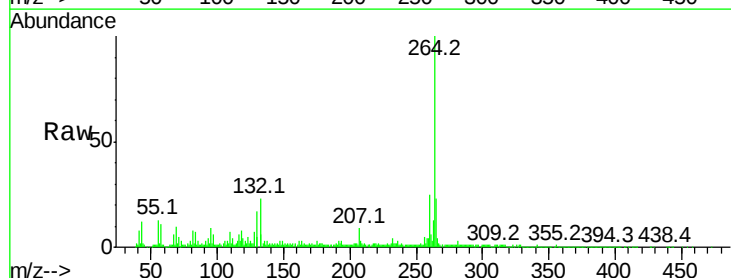
Delta R.T. 0.02 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Tgt Ion:264 Resp: 279330

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.2	28.8
265	23.2	17.4	26.0

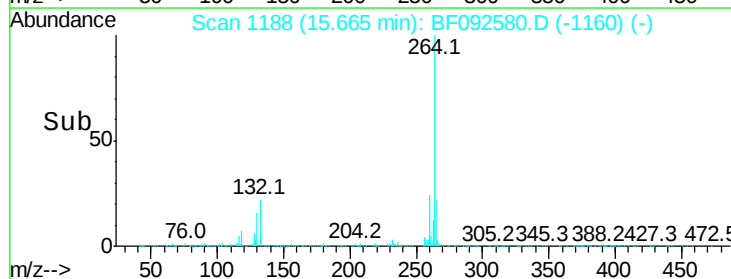
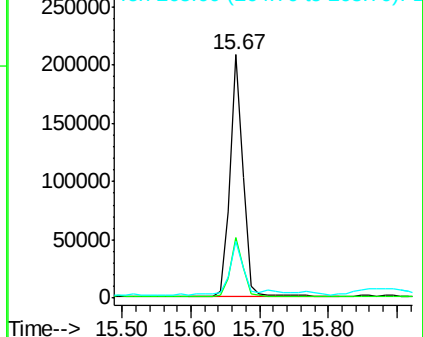


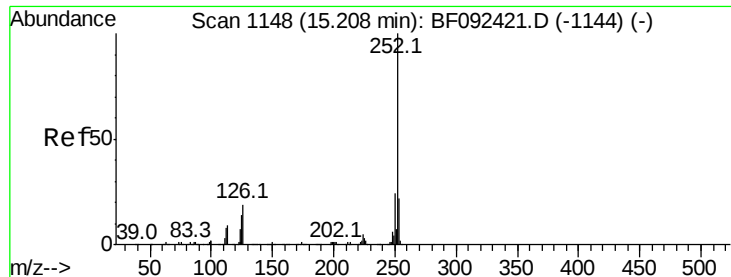
Abundance

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

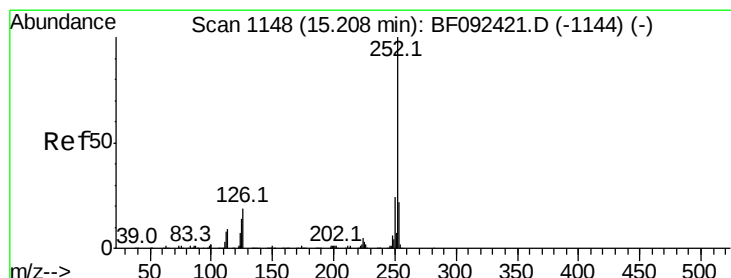
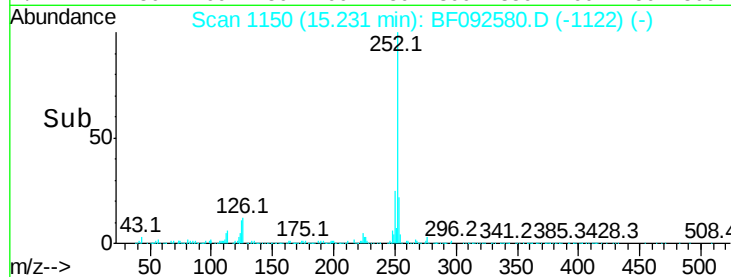
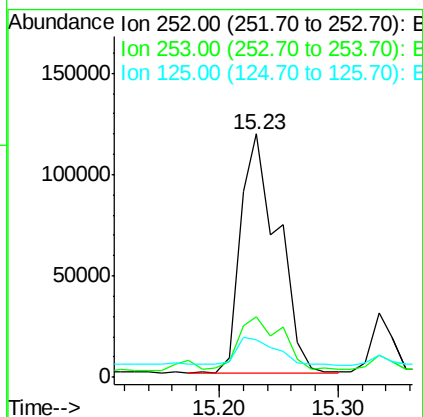
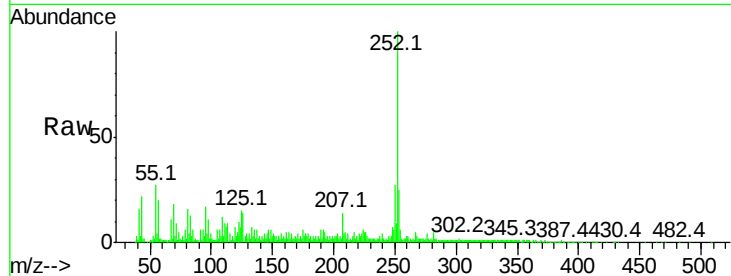




#87
Benzo(b)fluoranthene
Concen: 14.32 ng
RT: 15.23 min Scan# 1150
Delta R.T. 0.02 min
Lab File: BF092580.D
Acq: 27 Jan 2017 16:33

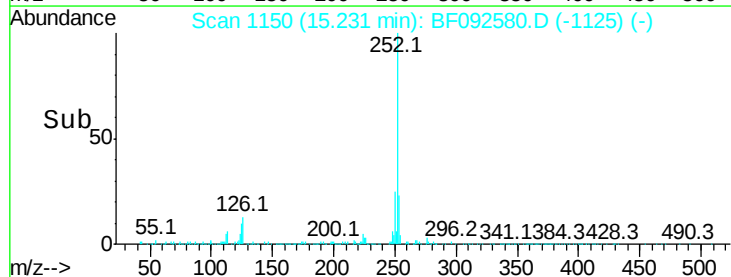
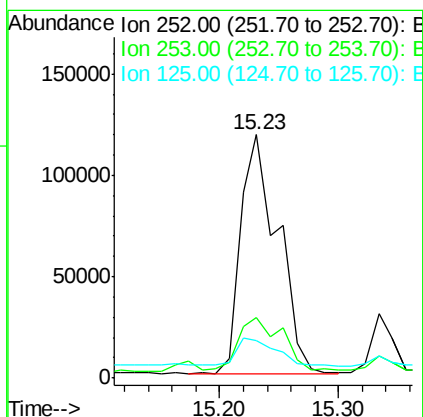
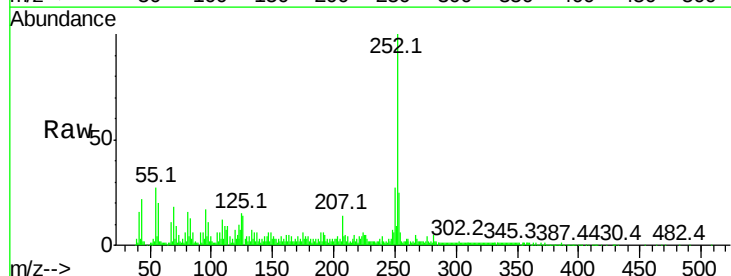
Instrument :
BNA_F
ClientSampleId :

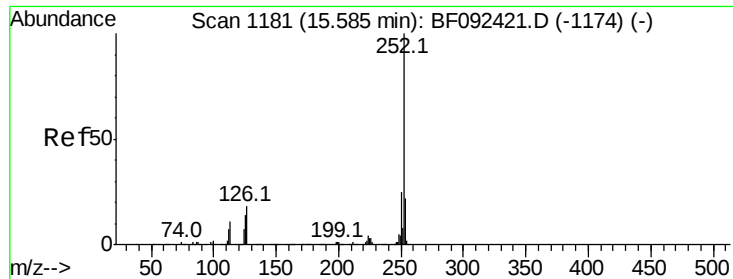
Tot Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.2	27.4
125	15.4	9.8	14.6



#88
Benzo(k)fluoranthene
Concen: 17.21 ng
RT: 15.23 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF092580.D
Acq: 27 Jan 2017 16:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.1	18.5	27.7
125	15.4	8.9	13.3





#89

Benzo(a)pyrene

Concen: 9.65 ng

RT: 15.60 min Scan# 1182

Delta R.T. 0.01 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

Instrument :

BNA_F

ClientSampled :

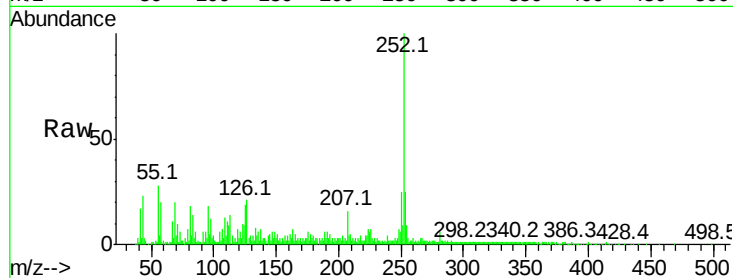
Tot Ion:252 Resp: 146453

Ion Ratio Lower Upper

252 100

253 24.9 18.2 27.2

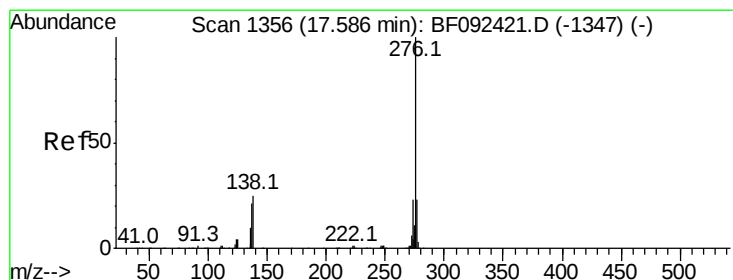
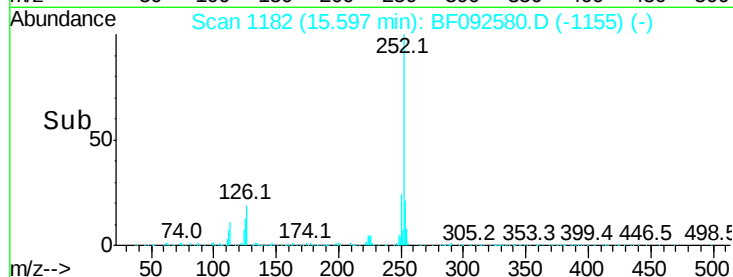
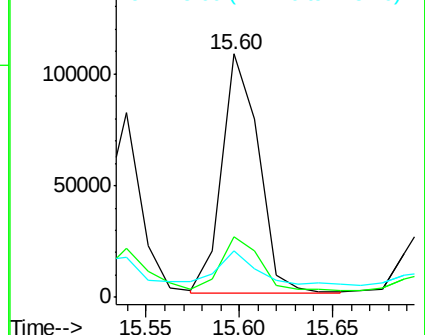
125 19.2 10.0 15.0#



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



#91

Benzo(g,h,i)perylene

Concen: 7.11 ng

RT: 17.63 min Scan# 1360

Delta R.T. 0.05 min

Lab File: BF092580.D

Acq: 27 Jan 2017 16:33

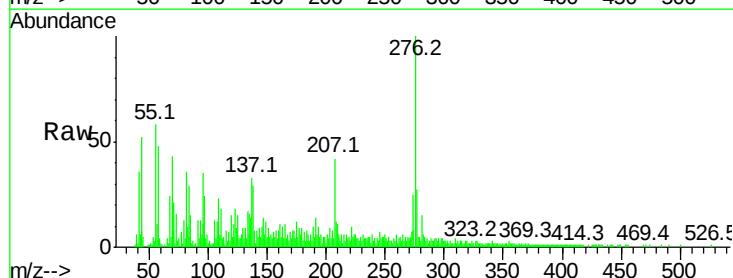
Tgt Ion:276 Resp: 88143

Ion Ratio Lower Upper

276 100

277 27.3 19.2 28.8

138 29.3 16.0 24.0#



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

