

Data Path : Z:\HPCHEM1\BNA F\Data\BF103116\
 Data File : BF090926.D
 Acq On : 31 Oct 2016 14:22
 Operator : UM/SJ
 Sample : H5423-03RE
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 01 10:33:21 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 28 15:18:12 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.750	152	164370	20.00	ng	-0.01
21) Naphthalene-d8	8.030	136	680049	20.00	ng	-0.02
38) Acenaphthene-d10	9.779	164	330041	20.00	ng	-0.03
63) Phenanthrene-d10	11.265	188	526343	20.00	ng	-0.02
75) Chrysene-d12	13.905	240	319030	20.00	ng	-0.02
86) Perylene-d12	15.300	264	343010	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.344	112	1591317	169.27	ng	-0.01
7) Phenol-d6	6.396	99	1894061	149.34	ng	-0.02
23) Nitrobenzene-d5	7.322	82	1387194	133.54	ng	-0.01
41) 2,4,6-Tribromophenol	10.579	330	542700	160.01	ng	-0.02
44) 2-Fluorobiphenyl	9.116	172	1829162	97.32	ng	-0.02
78) Terphenyl-d14	12.854	244	1125273	88.86	ng	-0.02

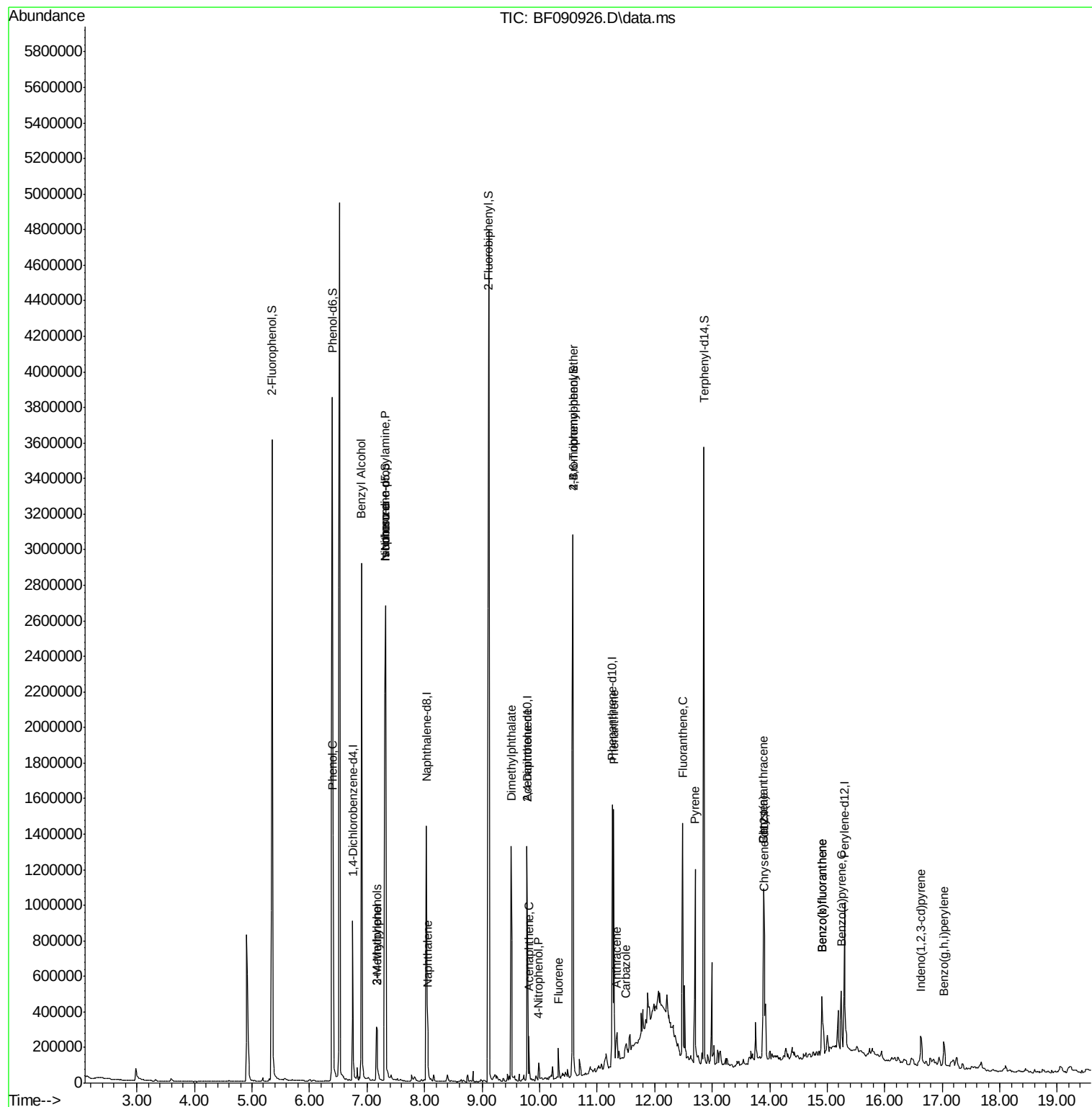
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.407	94	36302	2.60	ng	# 15
15) Benzyl Alcohol	6.899	79	21878	2.63	ng	# 33
17) 2-Methylphenol	7.173	107	143742	16.29	ng	# 76
19) n-Nitroso-di-n-propyla...	7.322	70	189428	25.83	ng	# 49
20) 3+4-Methylphenols	7.173	107	151858	14.87	ng	# 89
25) Isophorone	7.322	82	1284226	60.92	ng	# 58
31) Naphthalene	8.053	128	107587	3.38	ng	# 99
49) Dimethylphthalate	9.505	163	694296	31.49	ng	# 96
51) Acenaphthene	9.813	154	53153	2.82	ng	# 87
55) 4-Nitrophenol	9.985	139	15721	4.97	ng	# 32
56) 2,4-Dinitrotoluene	9.779	165	44445	7.35	ng	# 34
57) Fluorene	10.328	166	48660	2.44	ng	# 89
66) 4-Bromophenyl-phenylether	10.579	248	35564	6.17	ng	# 1
70) Phenanthrene	11.288	178	530041	19.77	ng	# 96
71) Anthracene	11.345	178	103819	3.68	ng	# 98
72) Carbazole	11.505	167	51733	2.08	ng	# 97
74) Fluoranthene	12.488	202	533285	18.17	ng	# 90
77) Pyrene	12.705	202	441852	21.89	ng	# 96
80) Benzo(a)anthracene	13.894	228	206498	12.20	ng	# 94
82) Chrysene	13.894	228	206498	12.06	ng	# 95
85) Indeno(1,2,3-cd)pyrene	16.625	276	117608	7.75	ng	# 85
87) Benzo(b)fluoranthene	14.911	252	270427	11.72	ng	# 88
88) Benzo(k)fluoranthene	14.911	252	270427	14.84	ng	# 89
89) Benzo(a)pyrene	15.243	252	153568	7.75	ng	# 88
91) Benzo(g,h,i)perylene	17.026	276	121713	7.70	ng	# 77

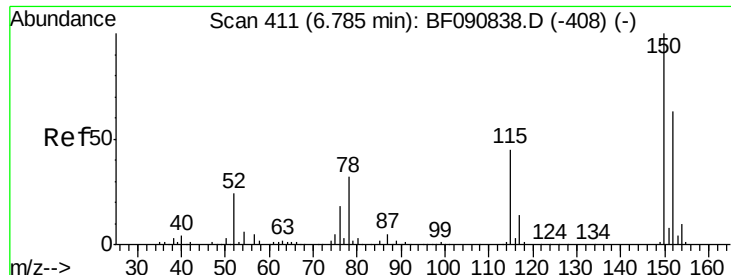
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.750 min Scan# 40

Delta R.T. -0.011 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

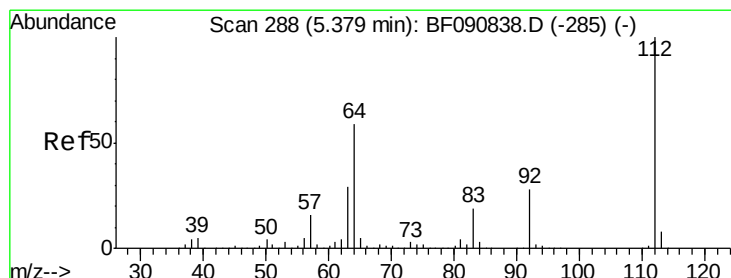
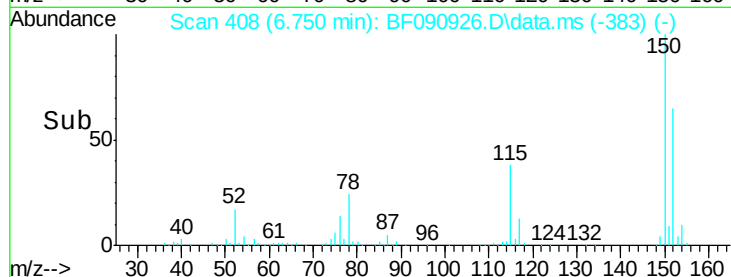
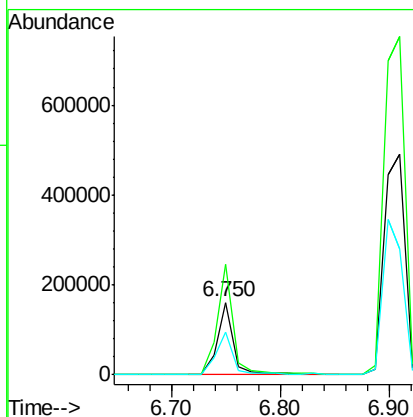
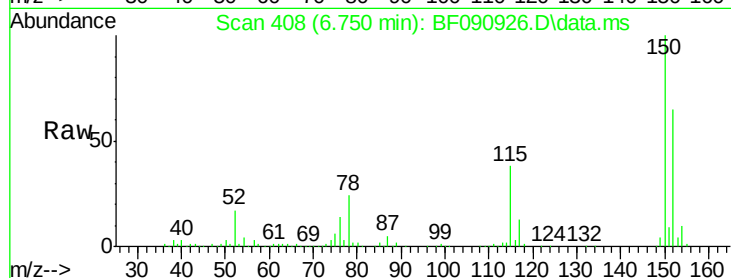
Tot Ion:152 Resp: 164370

Ion Ratio Lower Upper

152 100

150 153.8 124.7 187.1

115 58.3 39.0 58.4



#5

2-Fluorophenol

Concen: 169.27 ng

RT: 5.344 min Scan# 285

Delta R.T. -0.011 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

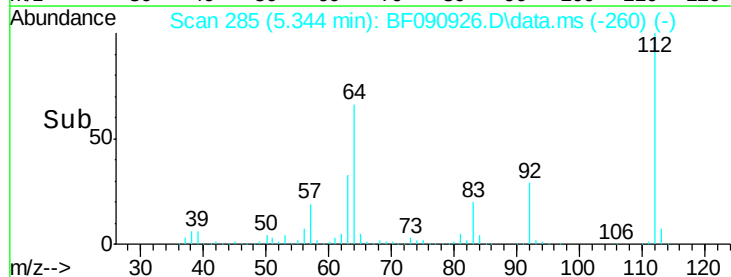
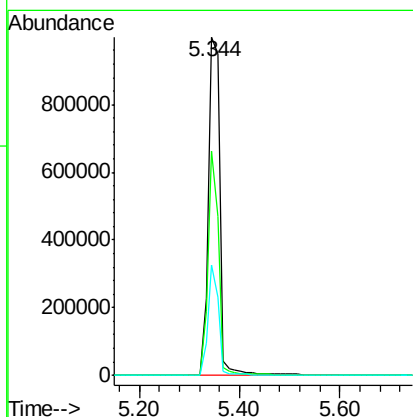
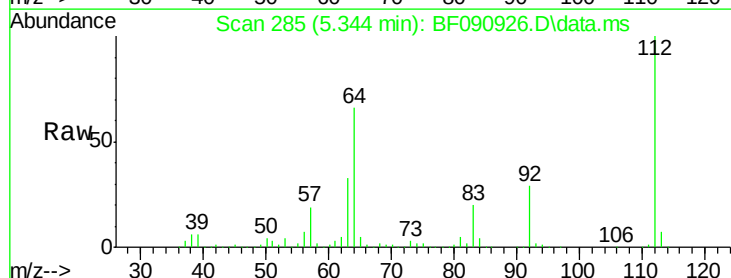
Tgt Ion:112 Resp: 1591317

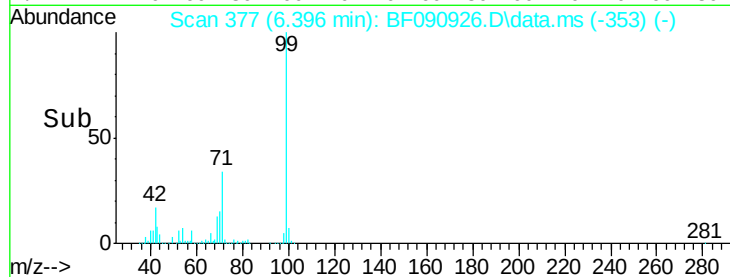
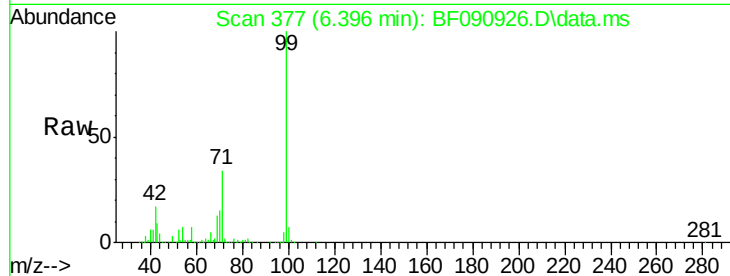
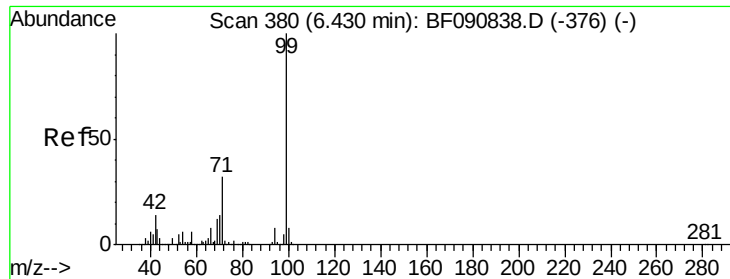
Ion Ratio Lower Upper

112 100

64 66.5 39.7 59.5#

63 32.6 17.4 26.0#





#7

Phenol-d6

Concen: 149.34 ng

RT: 6.396 min Scan# 37

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

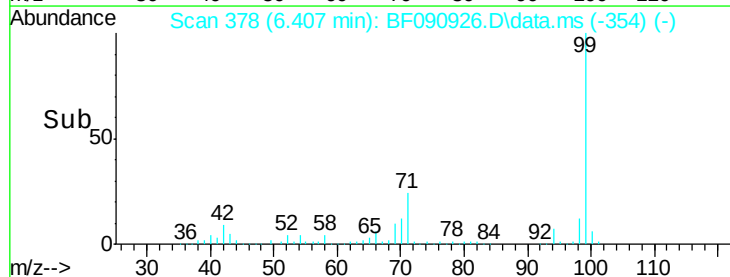
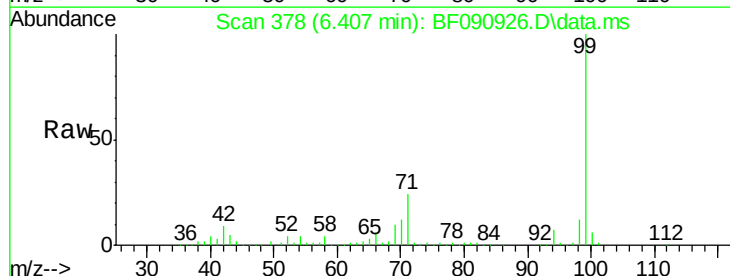
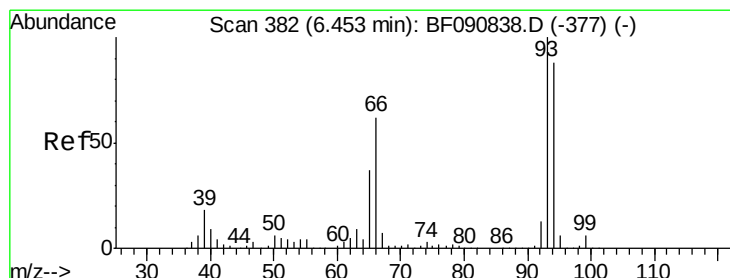
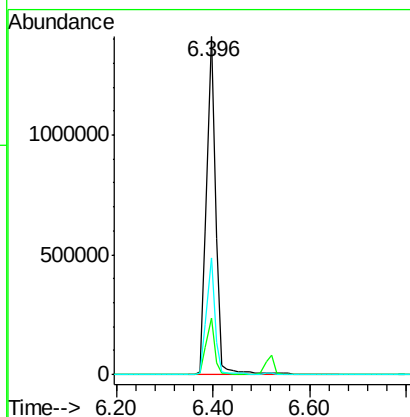
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1894061

Ion	Ratio	Lower	Upper
99	100		
42	16.8	13.7	20.5
71	34.4	14.2	21.2



#10

Phenol

Concen: 2.60 ng

RT: 6.407 min Scan# 378

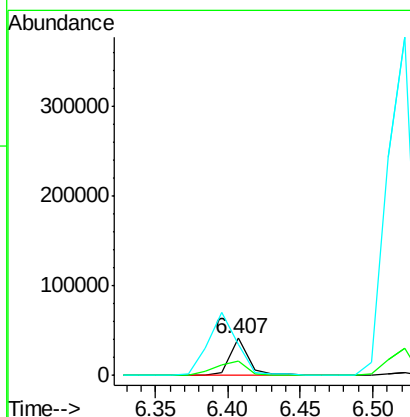
Delta R.T. -0.023 min

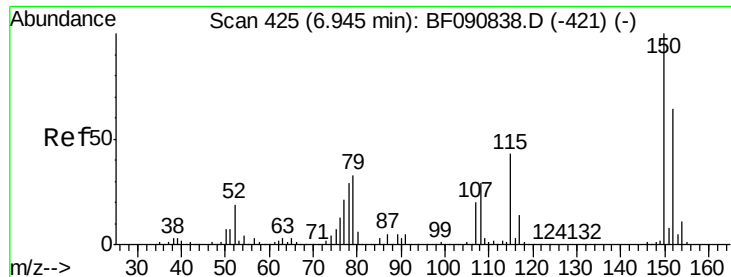
Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Tgt Ion: 94 Resp: 36302

Ion	Ratio	Lower	Upper
94	100		
65	38.0	0.7	40.7
66	83.1	0.8	40.8





#15

Benzyl Alcohol

Concen: 2.63 ng

RT: 6.899 min Scan# 42

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

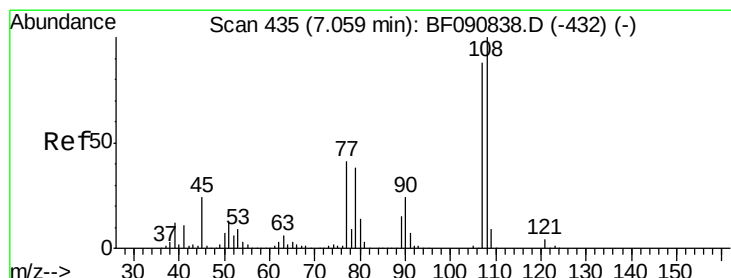
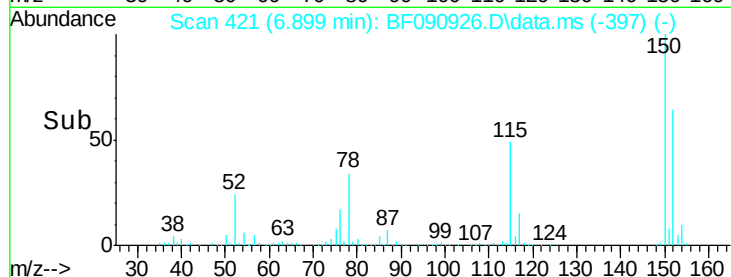
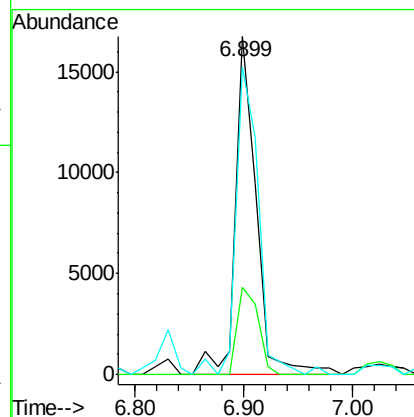
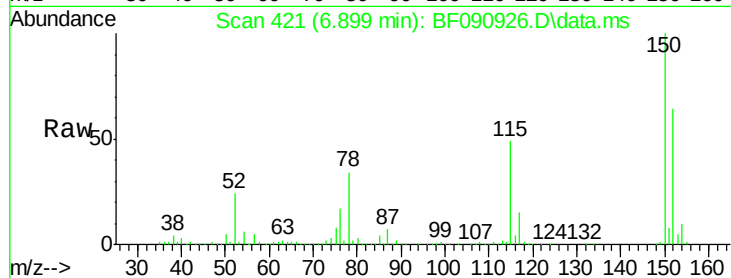
Tot Ion: 79 Resp: 21878

Ion Ratio Lower Upper

79 100

108 26.0 88.6 132.8#

77 91.0 47.0 70.4#



#17

2-Methylphenol

Concen: 16.29 ng

RT: 7.173 min Scan# 445

Delta R.T. 0.137 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Tgt Ion: 107 Resp: 143742

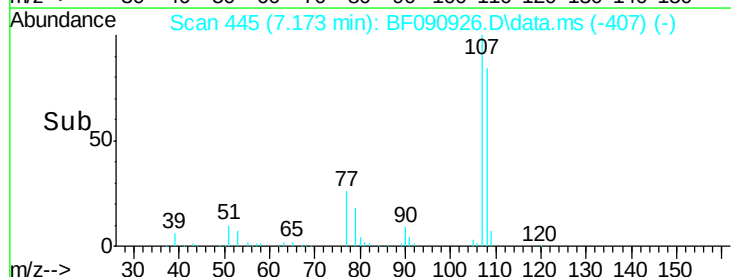
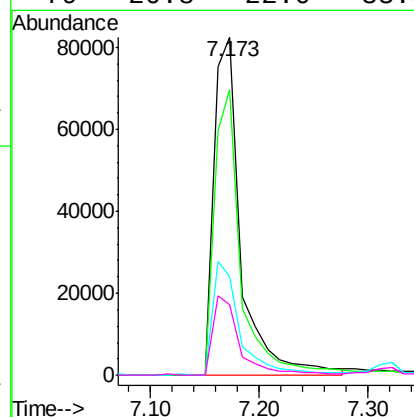
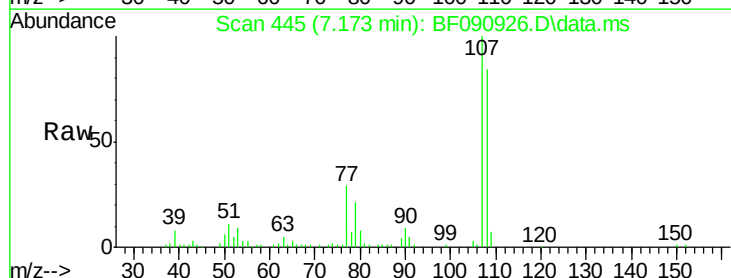
Ion Ratio Lower Upper

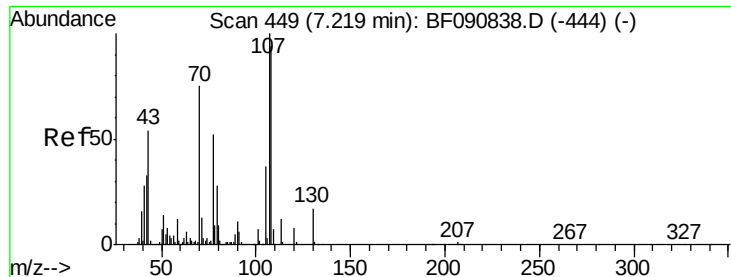
107 100

108 84.5 96.6 145.0#

77 29.1 23.3 34.9

79 20.8 22.0 33.0#

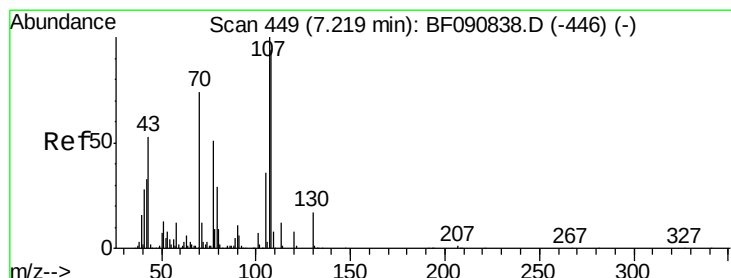
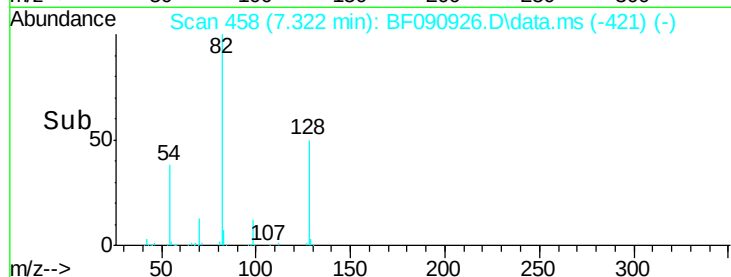
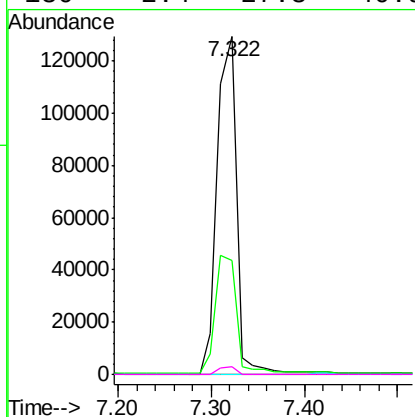
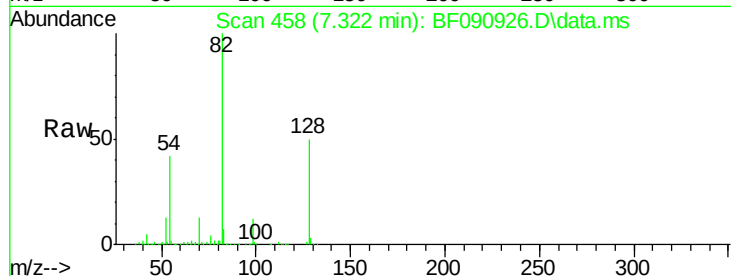




#19
 n-Nitroso-di-n-propylamine
 Concen: 25.83 ng
 RT: 7.322 min Scan# 451
 Delta R.T. 0.126 min
 Lab File: BF090926.D
 Acq: 31 Oct 2016 14:22

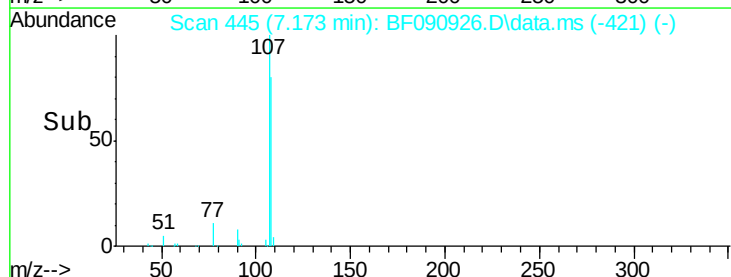
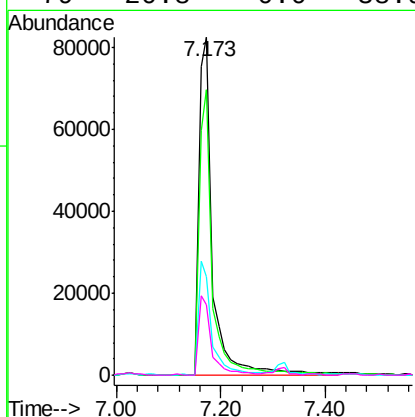
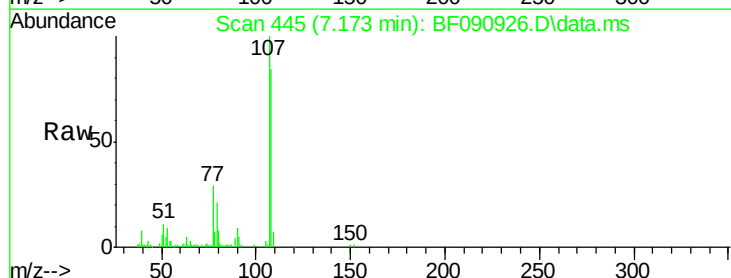
Instrument :
 BNA_F
 ClientSampleId :

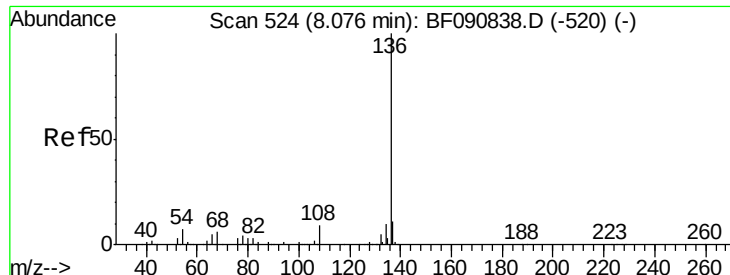
Tot Ion: 70 Resp: 189428
 Ion Ratio Lower Upper
 70 100
 42 33.6 63.8 95.6#
 101 0.0 9.2 13.8#
 130 2.4 27.3 40.9#



#20
 3+4-Methylphenols
 Concen: 14.87 ng
 RT: 7.173 min Scan# 445
 Delta R.T. -0.023 min
 Lab File: BF090926.D
 Acq: 31 Oct 2016 14:22

Tgt Ion: 107 Resp: 151858
 Ion Ratio Lower Upper
 107 100
 108 84.5 74.6 114.6
 77 29.1 0.7 40.7
 79 20.8 0.0 38.9





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.030 min Scan# 52

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 680049

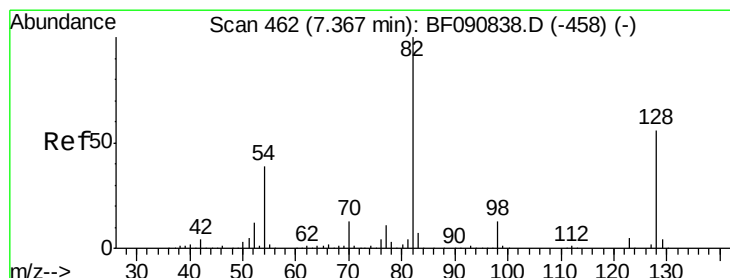
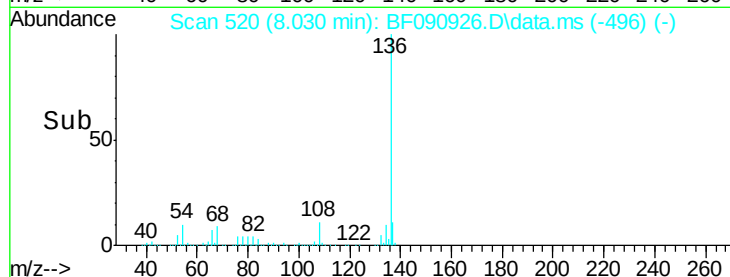
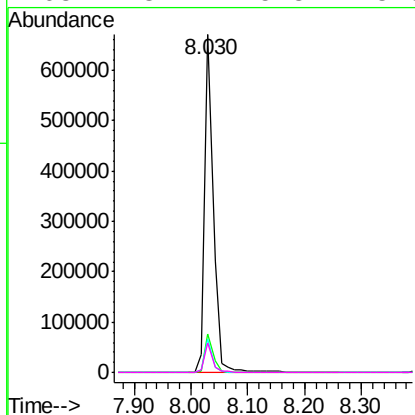
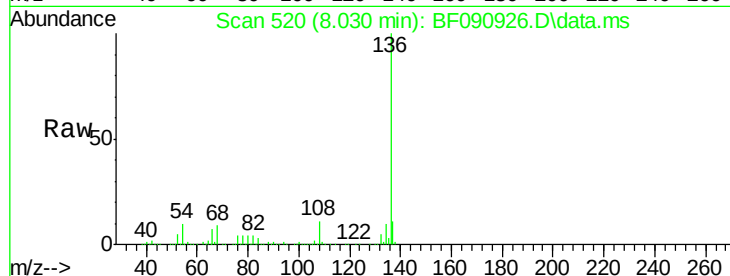
Ion Ratio Lower Upper

136 100

137 11.4 9.0 13.6

54 10.0 8.2 12.2

68 8.7 5.8 8.6#



#23

Nitrobenzene-d5

Concen: 133.54 ng

RT: 7.322 min Scan# 458

Delta R.T. -0.011 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

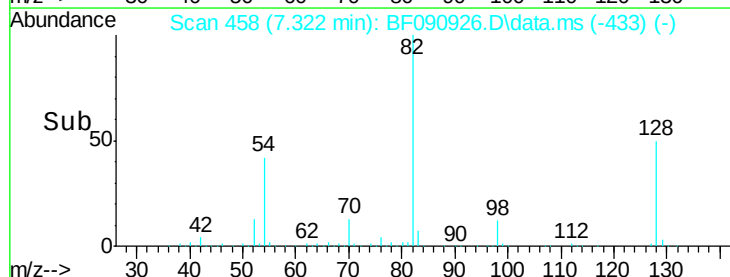
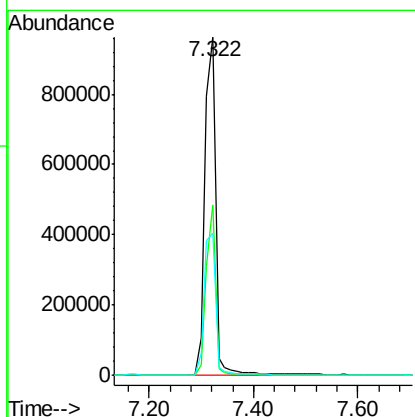
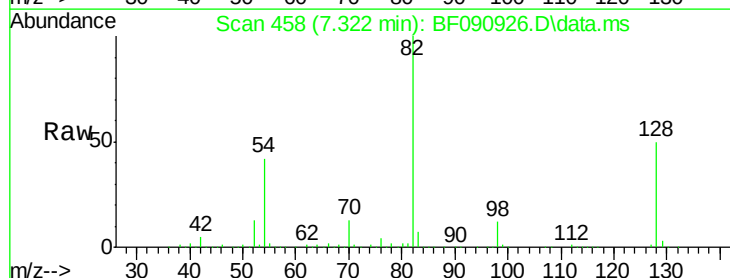
Tgt Ion: 82 Resp: 1387194

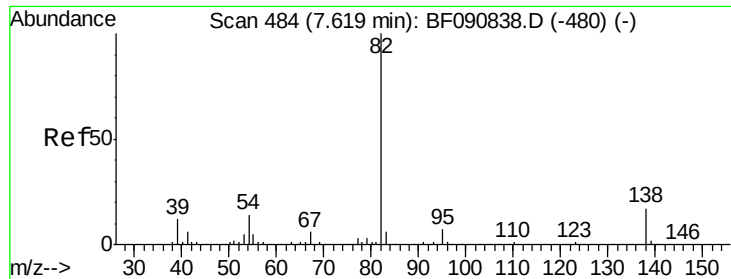
Ion Ratio Lower Upper

82 100

128 50.3 51.0 76.6#

54 42.0 47.5 71.3#





#25

Isophorone

Concen: 60.92 ng

RT: 7.322 min Scan# 45

Delta R.T. -0.274 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

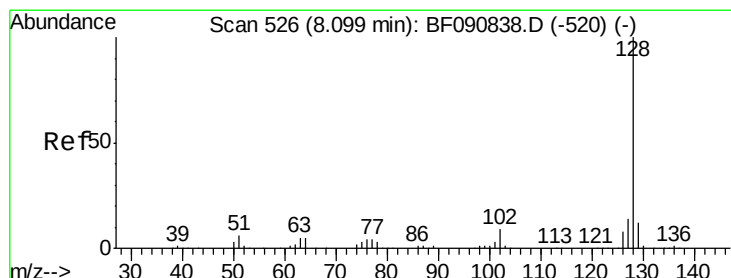
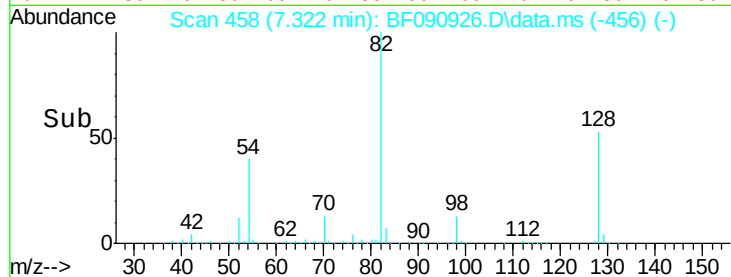
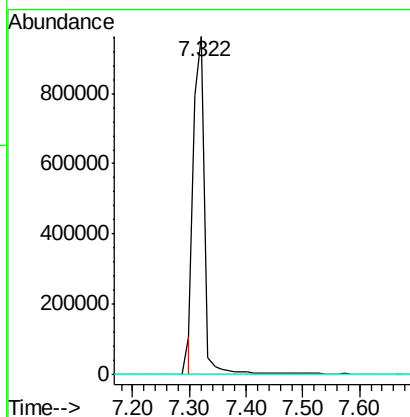
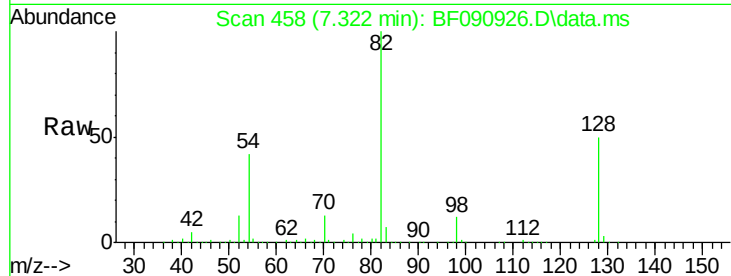
Tot Ion: 82 Resp: 1284226

Ion Ratio Lower Upper

82 100

95 0.0 4.0 6.0#

138 0.0 18.3 27.5#



#31

Naphthalene

Concen: 3.38 ng

RT: 8.053 min Scan# 522

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

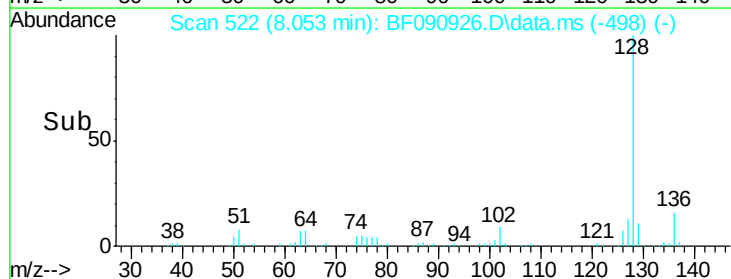
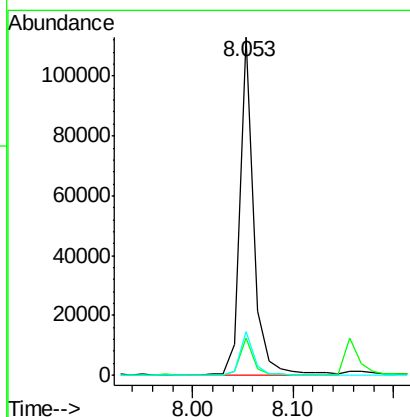
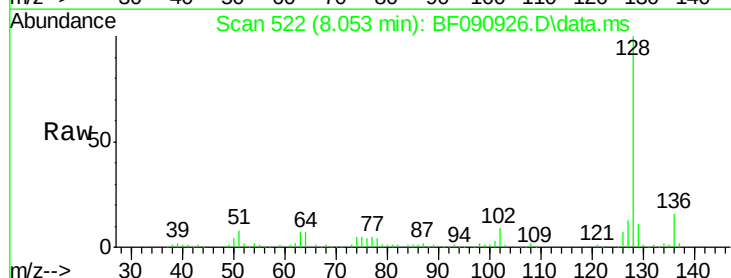
Tgt Ion: 128 Resp: 107587

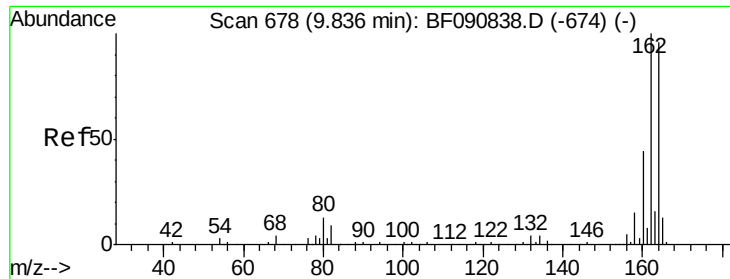
Ion Ratio Lower Upper

128 100

129 11.1 8.4 12.6

127 12.8 9.9 14.9





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.779 min Scan# 67

Delta R.T. -0.034 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

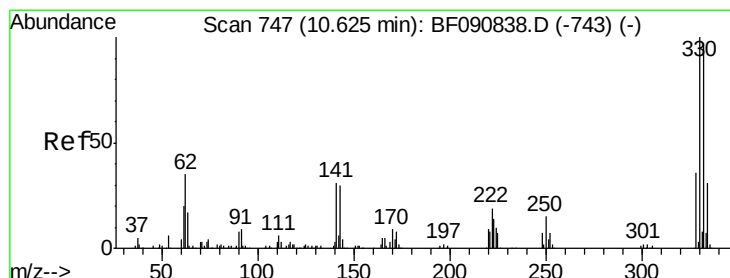
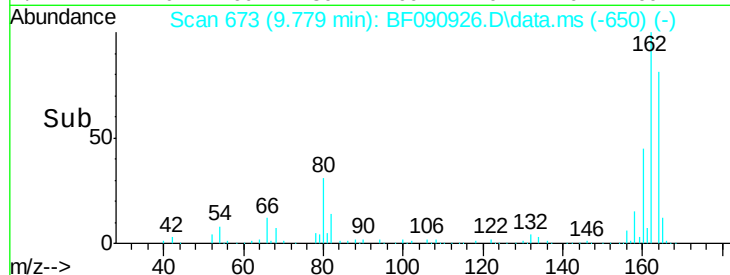
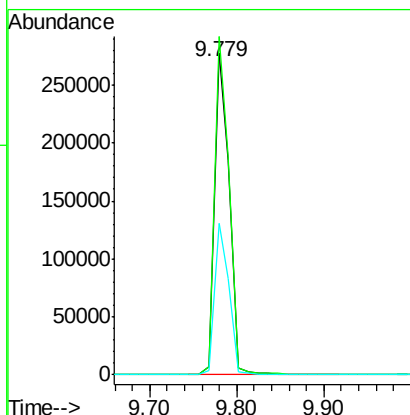
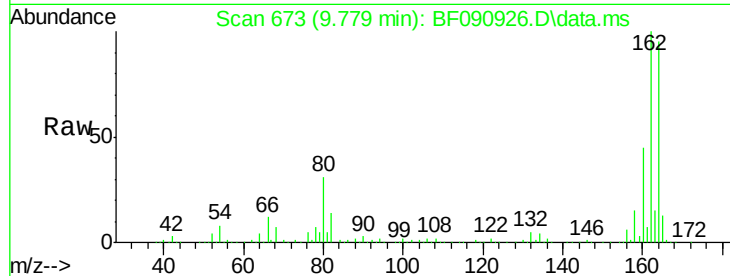
Tot Ion:164 Resp: 330041

Ion Ratio Lower Upper

164 100

162 105.4 75.2 112.8

160 47.2 31.5 47.3



#41

2,4,6-Tribromophenol

Concen: 160.01 ng

RT: 10.579 min Scan# 743

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

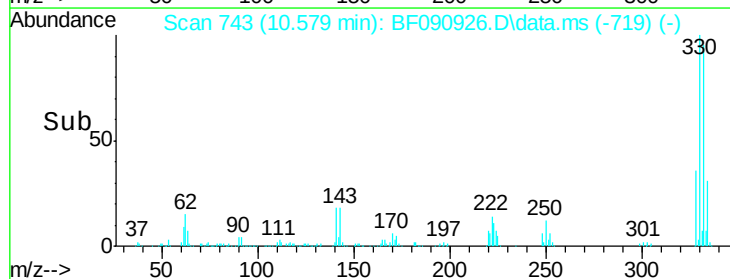
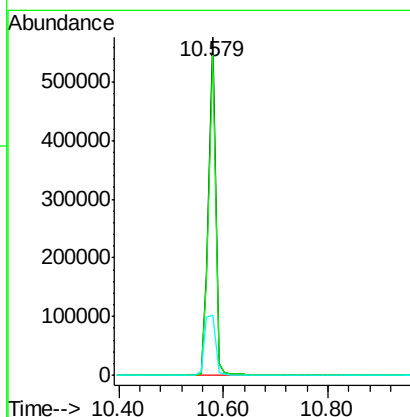
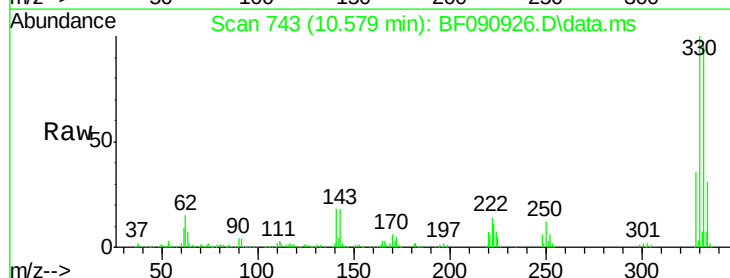
Tgt Ion:330 Resp: 542700

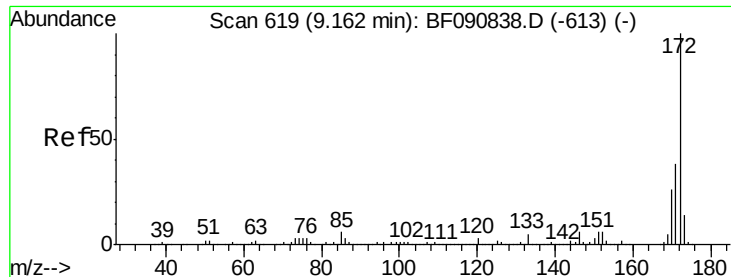
Ion Ratio Lower Upper

330 100

332 94.9 76.6 114.8

141 27.5 29.7 44.5#

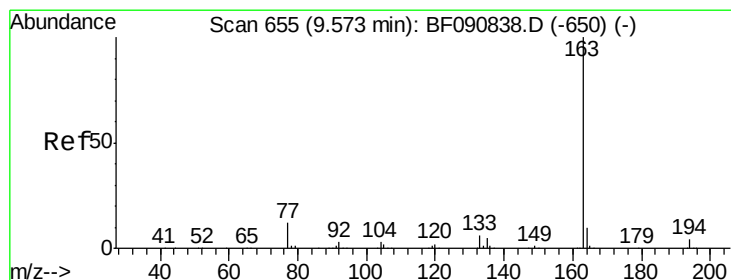
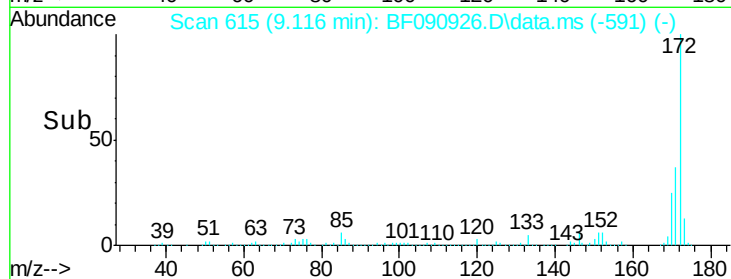
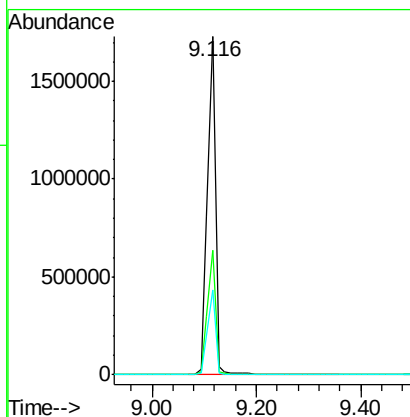
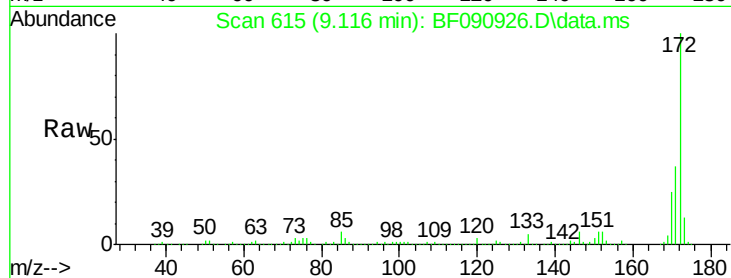




#44
2-Fluorobiphenyl
Concen: 97.32 ng
RT: 9.116 min Scan# 61
Delta R.T. -0.023 min
Lab File: BF090926.D
Acq: 31 Oct 2016 14:22

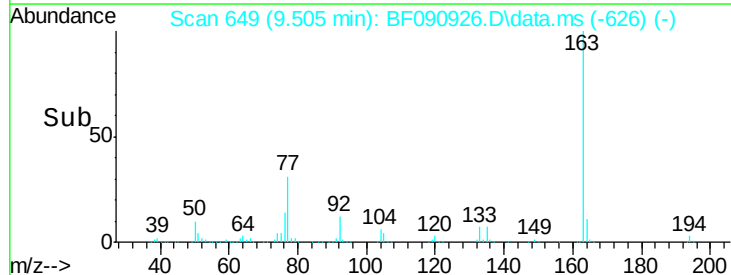
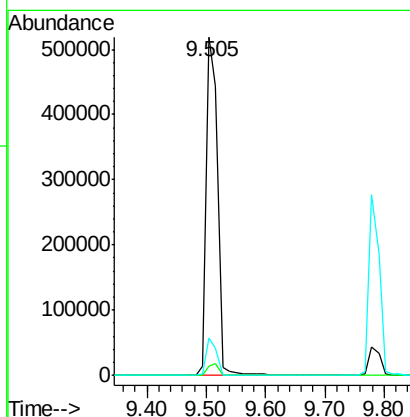
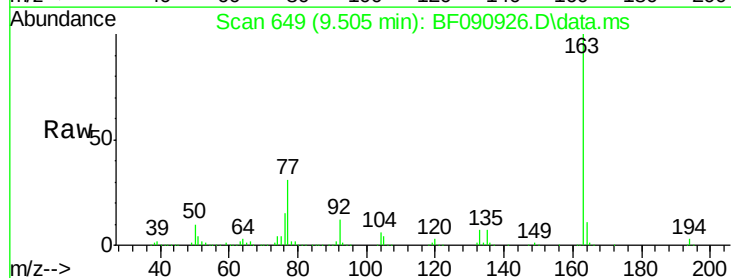
Instrument :
BNA_F
ClientSampleId :

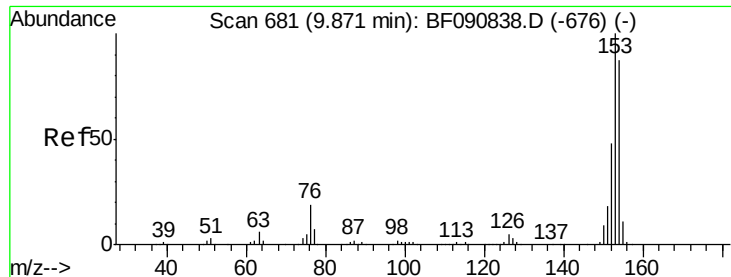
Tot Ion:172 Resp: 1829162
Ion Ratio Lower Upper
172 100
171 36.9 26.1 39.1
170 25.0 17.4 26.2



#49
Dimethylphthalate
Concen: 31.49 ng
RT: 9.505 min Scan# 649
Delta R.T. -0.034 min
Lab File: BF090926.D
Acq: 31 Oct 2016 14:22

Tgt Ion:163 Resp: 694296
Ion Ratio Lower Upper
163 100
194 2.9 4.4 6.6#
164 10.9 8.3 12.5





#51

Acenaphthene

Concen: 2.82 ng

RT: 9.813 min Scan# 67

Delta R.T. -0.034 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

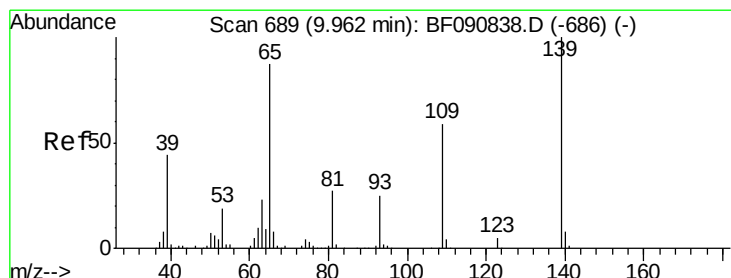
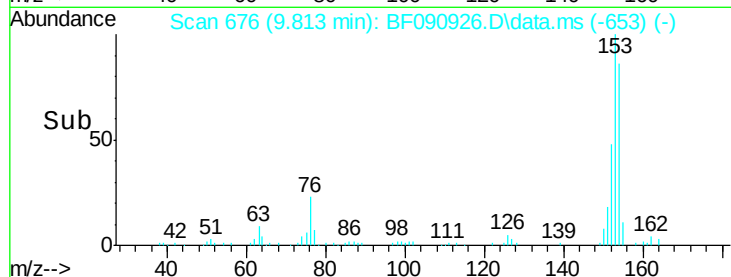
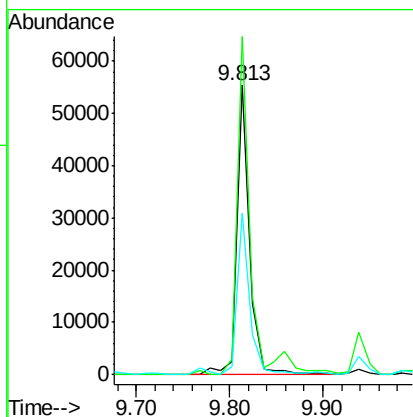
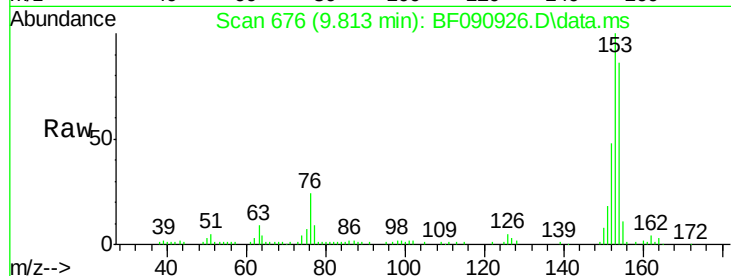
Tot Ion:154 Resp: 53153

Ion Ratio Lower Upper

154 100

153 116.8 82.1 123.1

152 55.6 37.9 56.9



#55

4-Nitrophenol

Concen: 4.97 ng

RT: 9.985 min Scan# 691

Delta R.T. 0.046 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

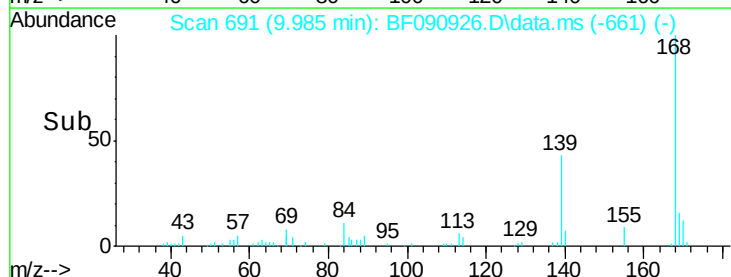
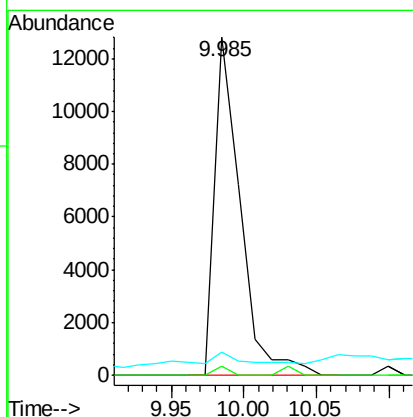
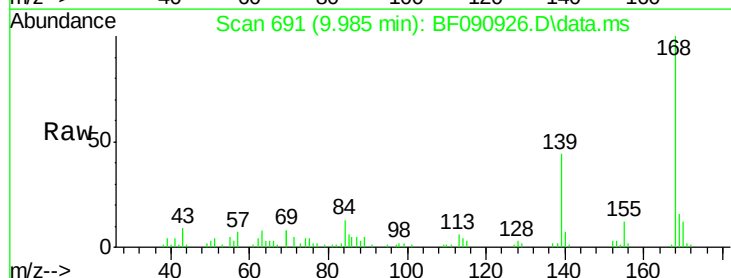
Tgt Ion:139 Resp: 15721

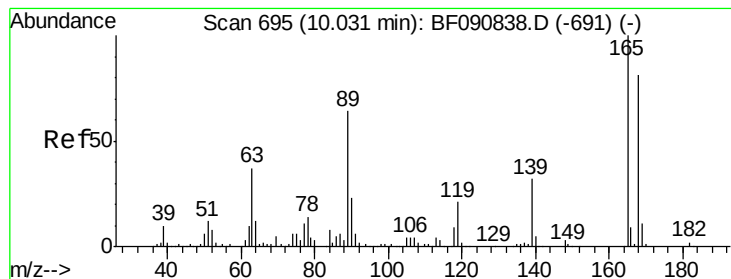
Ion Ratio Lower Upper

139 100

109 2.6 12.7 52.7#

65 6.7 45.9 85.9#





#56

2,4-Dinitrotoluene

Concen: 7.35 ng

RT: 9.779 min Scan# 67

Delta R.T. -0.228 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

Tot Ion:165 Resp: 44445

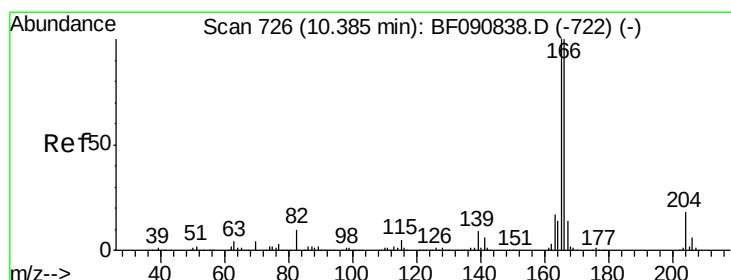
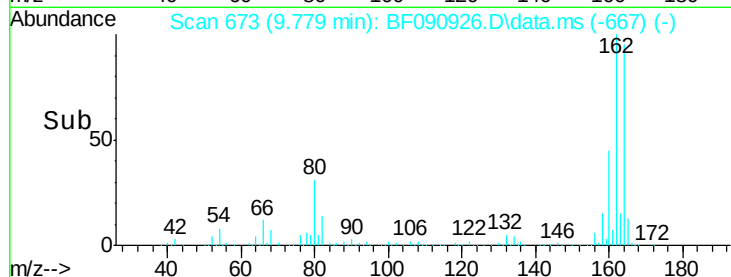
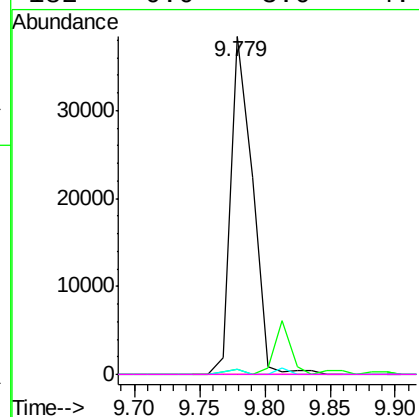
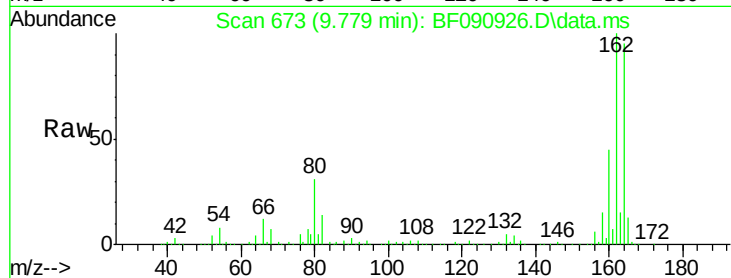
Ion Ratio Lower Upper

165 100

63 1.6 29.8 44.6#

89 1.7 44.5 66.7#

182 0.0 3.0 4.4#



#57

Fluorene

Concen: 2.44 ng

RT: 10.328 min Scan# 721

Delta R.T. -0.034 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

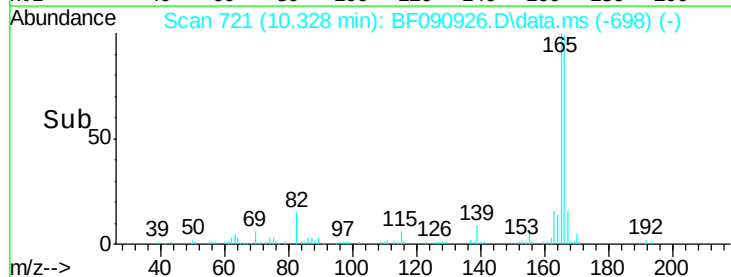
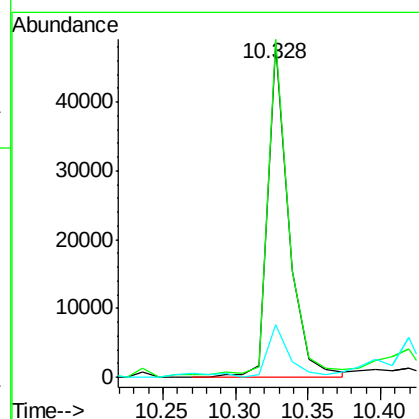
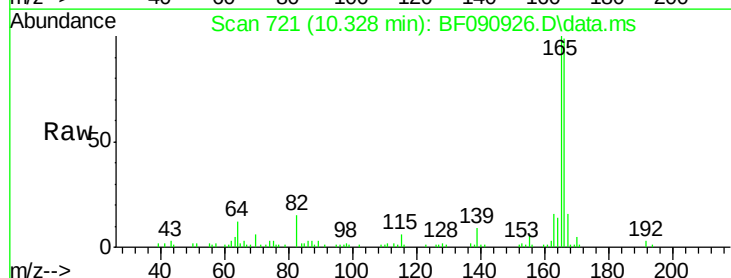
Tgt Ion:166 Resp: 48660

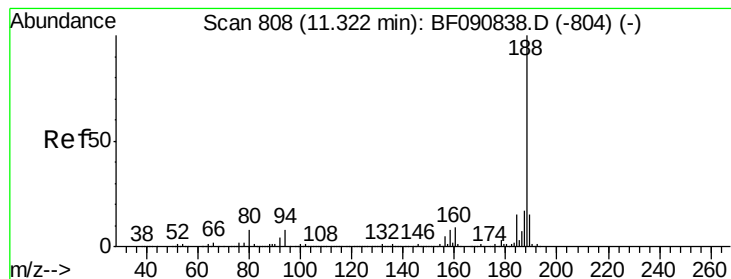
Ion Ratio Lower Upper

166 100

165 101.5 72.6 109.0

167 15.8 10.6 16.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.265 min Scan# 80

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

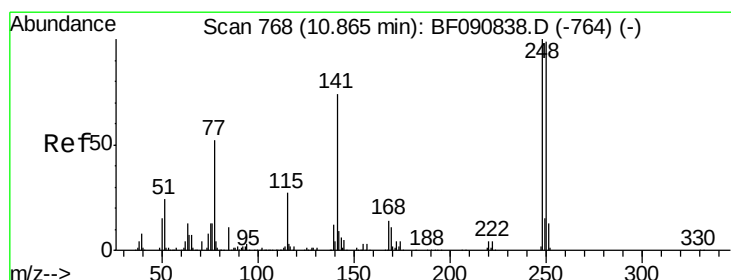
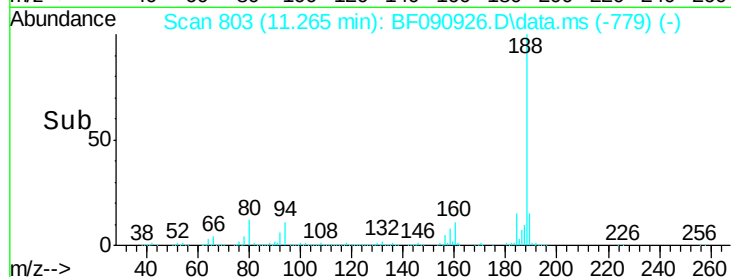
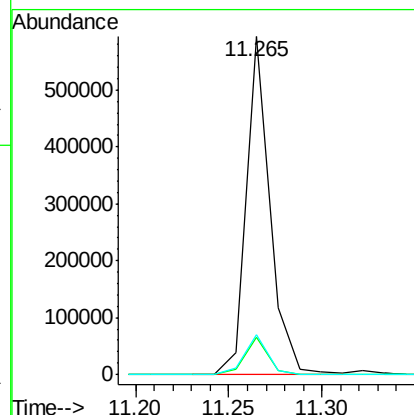
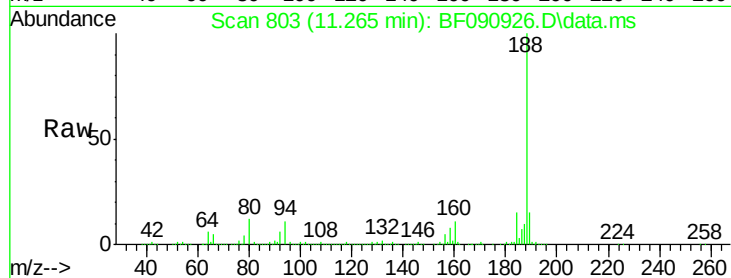
Tot Ion:188 Resp: 526343

Ion Ratio Lower Upper

188 100

94 10.9 11.1 16.7#

80 11.9 11.0 16.4



#66

4-Bromophenyl-phenylether

Concen: 6.17 ng

RT: 10.579 min Scan# 743

Delta R.T. -0.263 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

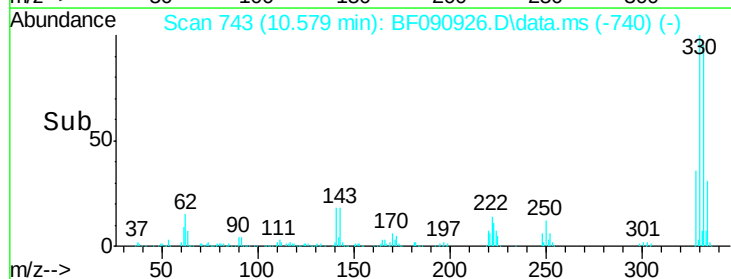
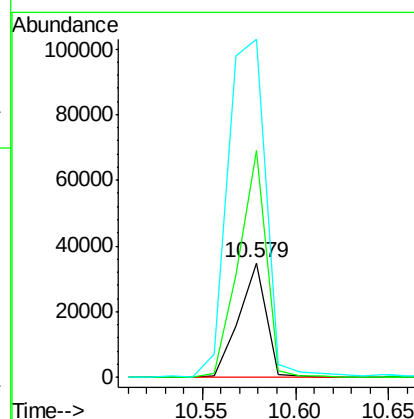
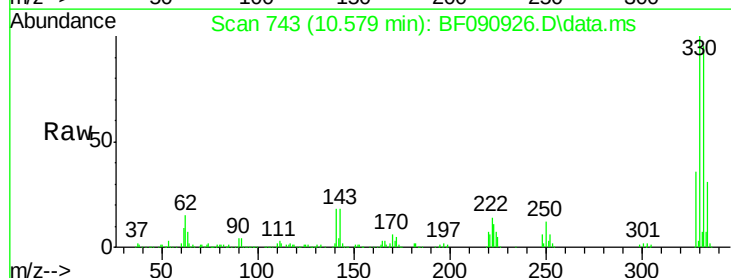
Tgt Ion:248 Resp: 35564

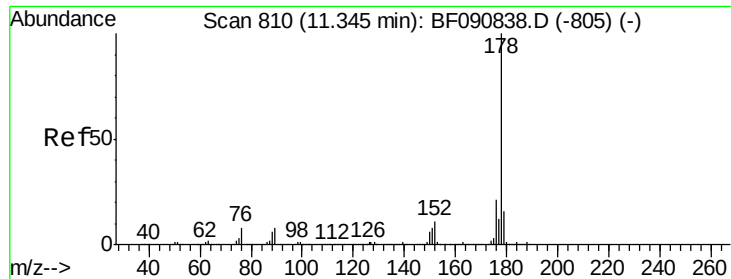
Ion Ratio Lower Upper

248 100

250 198.3 78.5 117.7#

141 296.1 59.0 88.6#

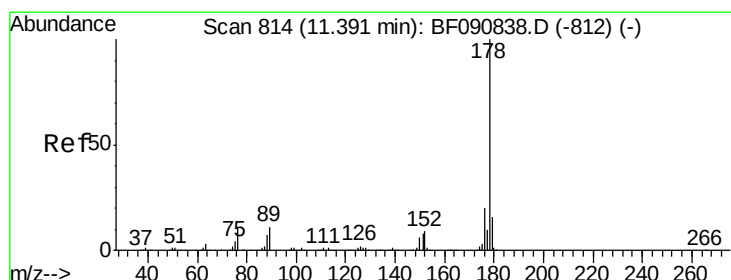
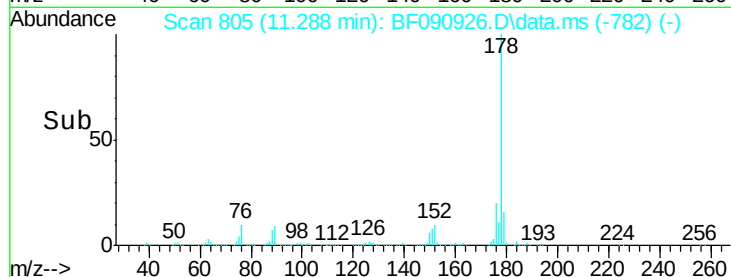
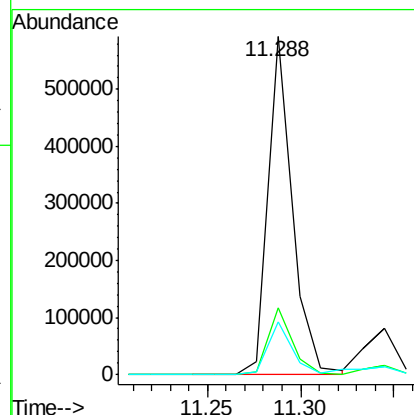
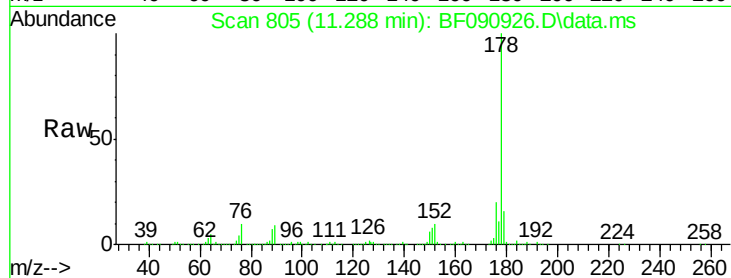




#70
Phenanthrene
Concen: 19.77 ng
RT: 11.288 min Scan# 80
Delta R.T. -0.034 min
Lab File: BF090926.D
Acq: 31 Oct 2016 14:22

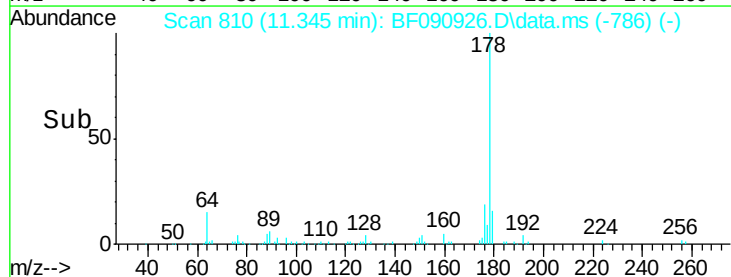
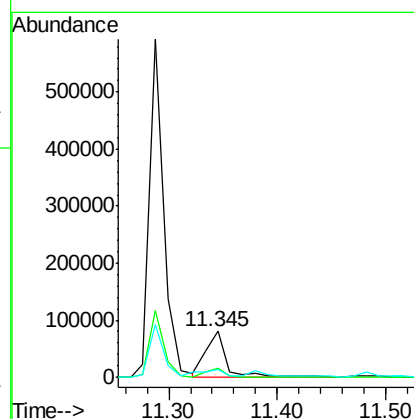
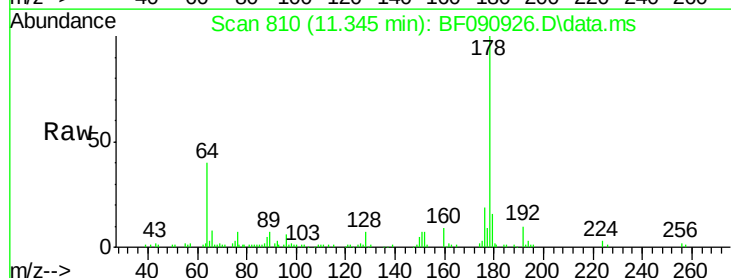
Instrument :
BNA_F
ClientSampleId :

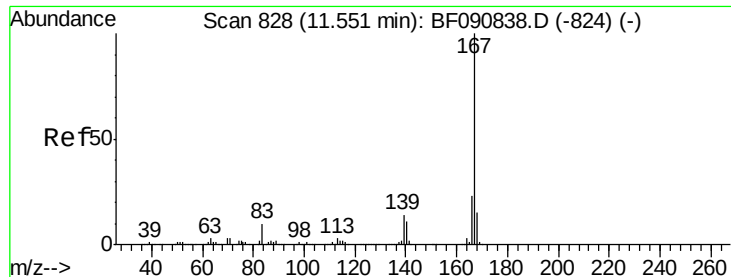
Tot Ion	Ratio	Lower	Upper
178	100		
176	19.8	13.8	20.8
179	15.7	12.2	18.2



#71
Anthracene
Concen: 3.68 ng
RT: 11.345 min Scan# 810
Delta R.T. -0.023 min
Lab File: BF090926.D
Acq: 31 Oct 2016 14:22

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.1	21.1
179	15.7	12.2	18.2

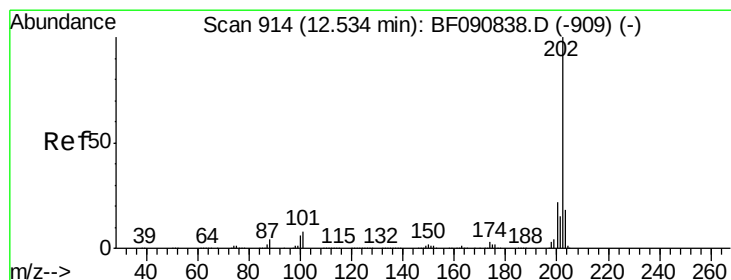
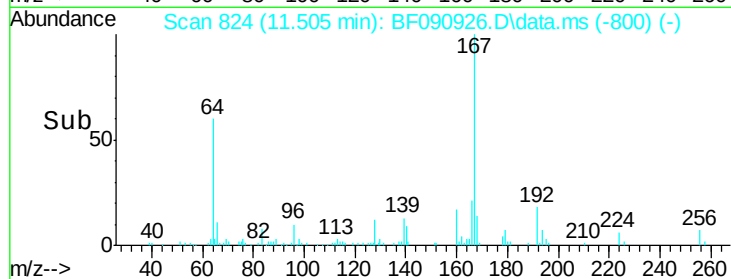
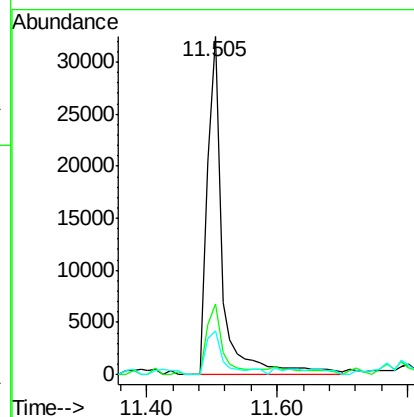
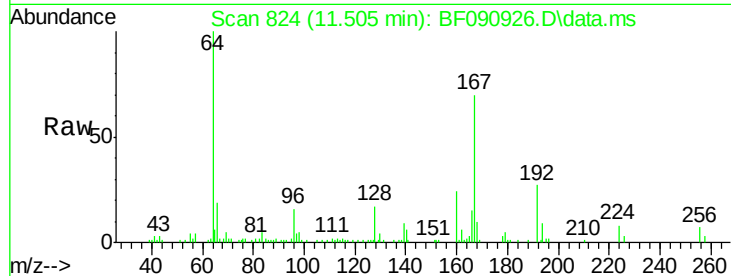




#72
 Carbazole
 Concen: 2.08 ng
 RT: 11.505 min Scan# 82
 Delta R.T. -0.023 min
 Lab File: BF090926.D
 Acq: 31 Oct 2016 14:22

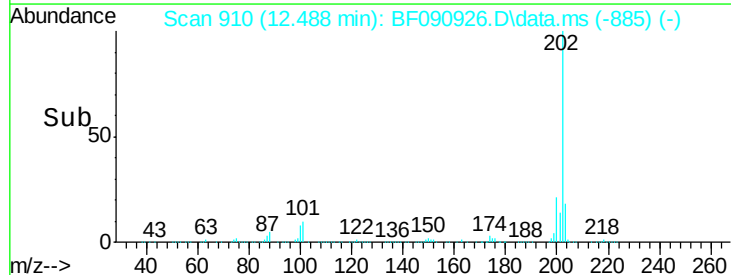
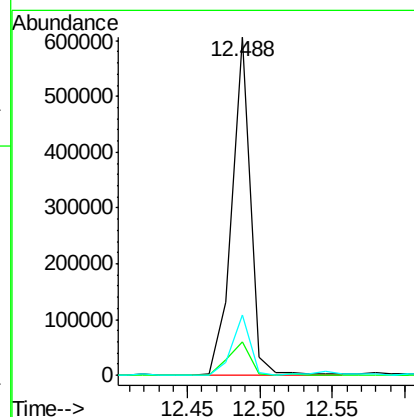
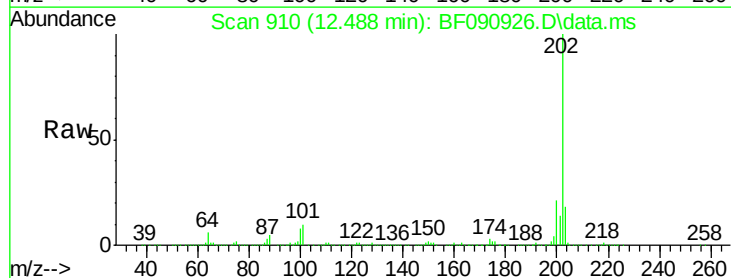
Instrument :
 BNA_F
 ClientSampleId :

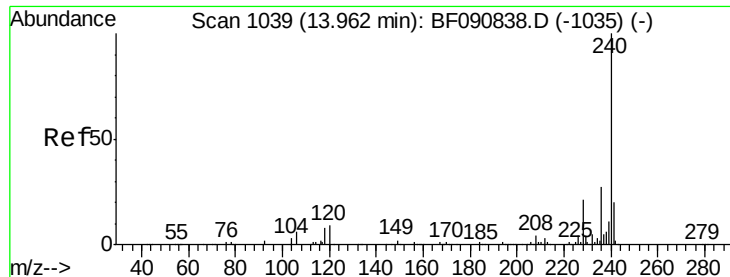
Tot Ion:167 Resp: 51733
 Ion Ratio Lower Upper
 167 100
 166 21.0 15.7 23.5
 139 12.9 9.5 14.3



#74
 Fluoranthene
 Concen: 18.17 ng
 RT: 12.488 min Scan# 910
 Delta R.T. -0.011 min
 Lab File: BF090926.D
 Acq: 31 Oct 2016 14:22

Tgt Ion:202 Resp: 533285
 Ion Ratio Lower Upper
 202 100
 101 10.1 0.0 38.3
 203 17.7 0.0 37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.905 min Scan# 10

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

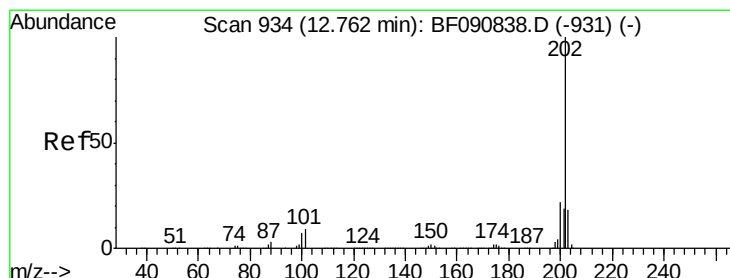
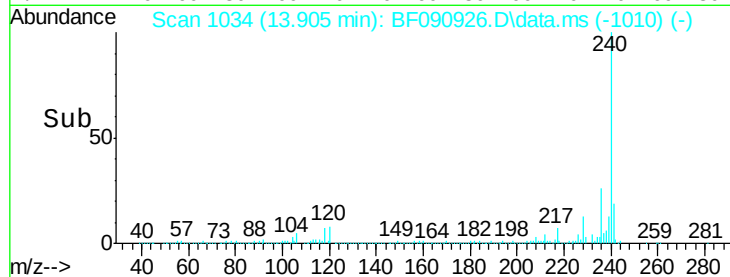
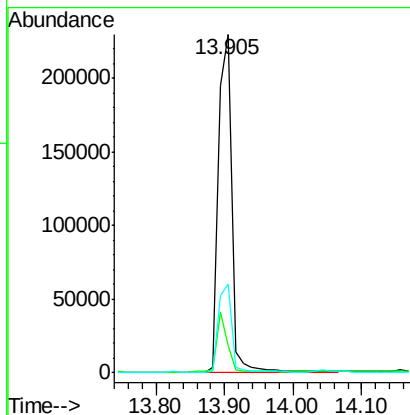
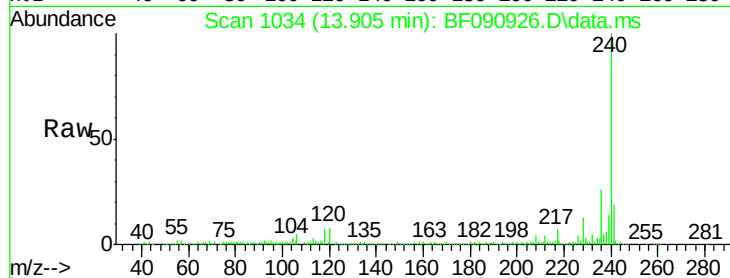
Tot Ion:240 Resp: 319030

Ion Ratio Lower Upper

240 100

120 8.1 16.2 24.2#

236 26.3 18.4 27.6



#77

Pyrene

Concen: 21.89 ng

RT: 12.705 min Scan# 929

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

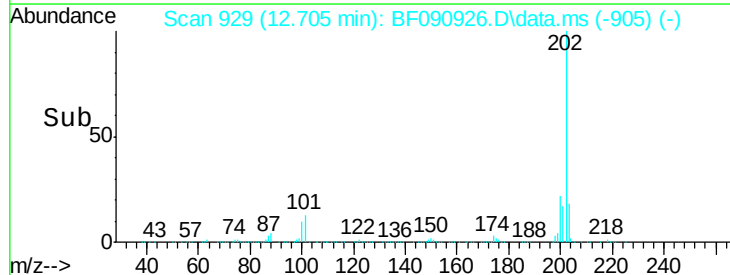
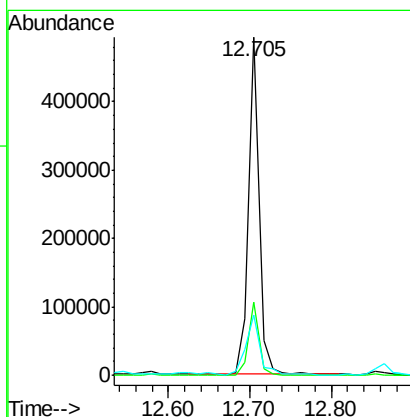
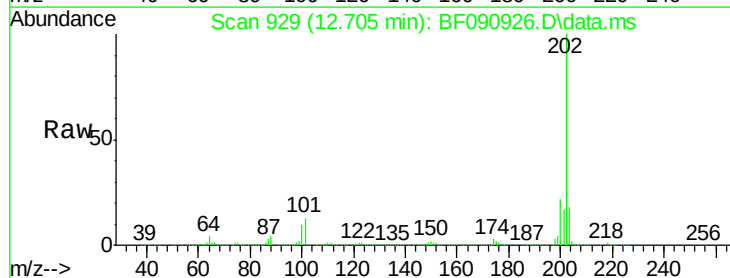
Tgt Ion:202 Resp: 441852

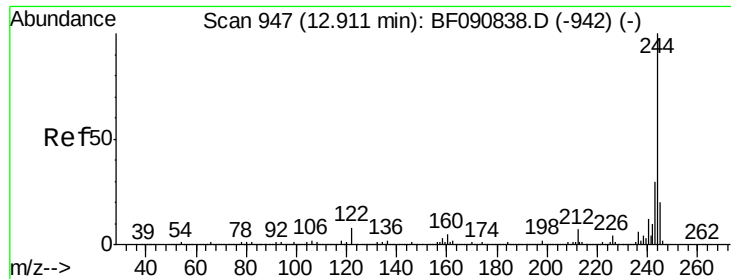
Ion Ratio Lower Upper

202 100

200 21.6 15.0 22.4

203 17.9 14.1 21.1





#78

Terphenyl-d14

Concen: 88.86 ng

RT: 12.854 min Scan# 94

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

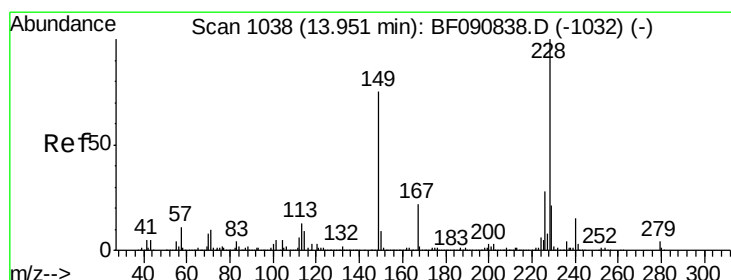
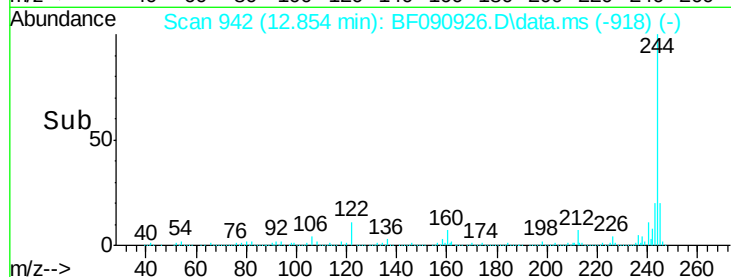
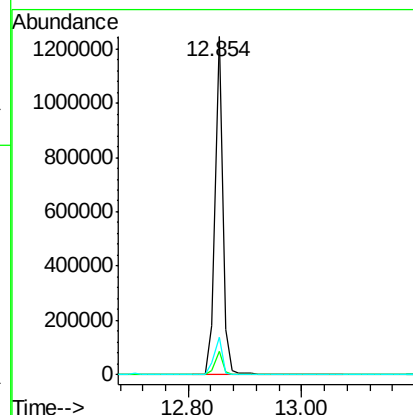
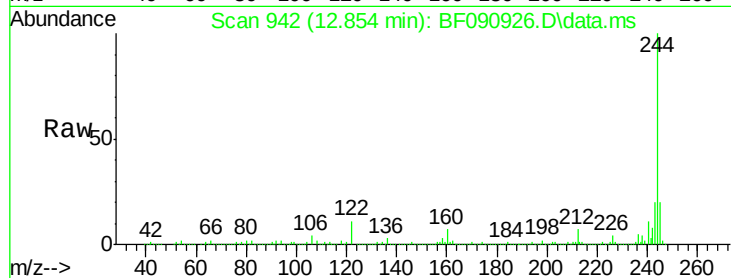
Tot Ion:244 Resp: 1125273

Ion Ratio Lower Upper

244 100

212 6.8 4.3 6.5#

122 10.8 17.4 26.2#



#80

Benzo(a)anthracene

Concen: 12.20 ng

RT: 13.894 min Scan# 1033

Delta R.T. -0.023 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

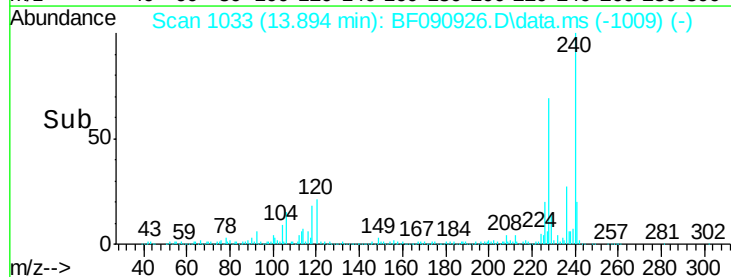
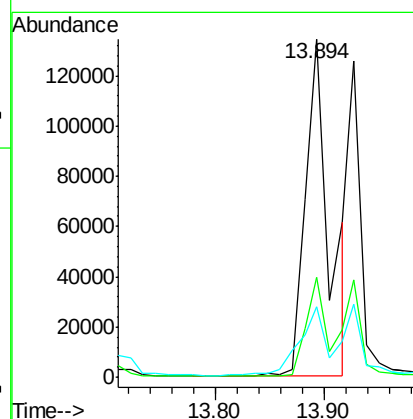
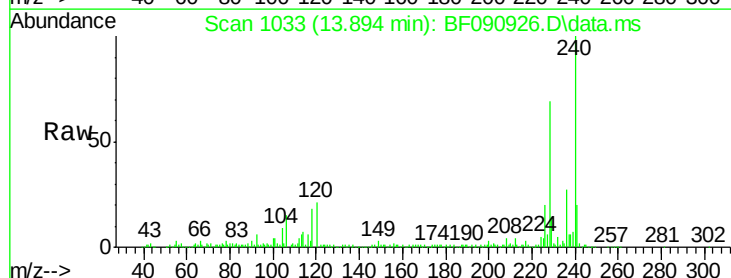
Tgt Ion:228 Resp: 206498

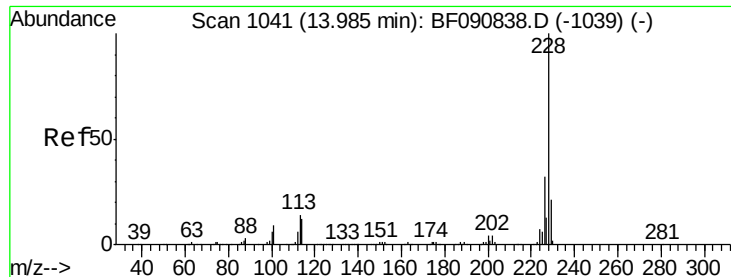
Ion Ratio Lower Upper

228 100

226 29.4 20.0 30.0

229 20.8 15.4 23.2





#82

Chrysene

Concen: 12.06 ng

RT: 13.894 min Scan# 1041

Delta R.T. -0.068 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

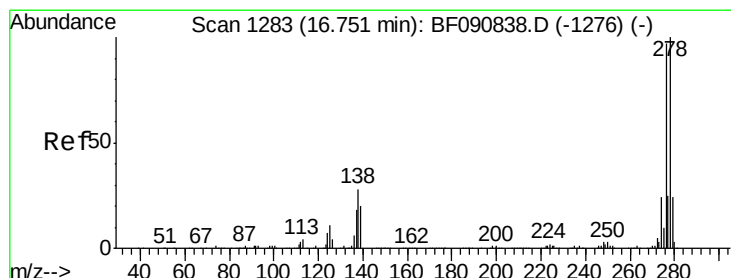
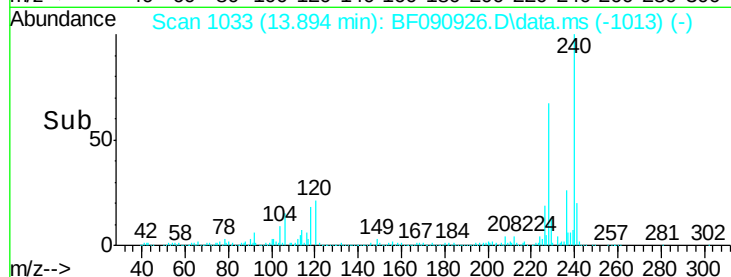
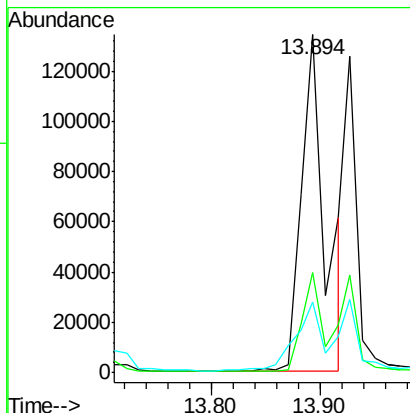
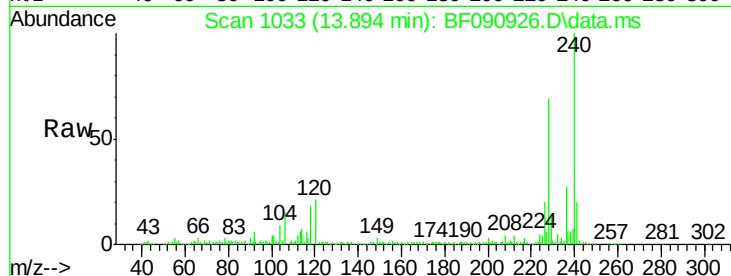
Tot Ion:228 Resp: 206498

Ion Ratio Lower Upper

228 100

226 29.4 21.0 31.4

229 20.8 15.6 23.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.75 ng

RT: 16.625 min Scan# 1272

Delta R.T. -0.080 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

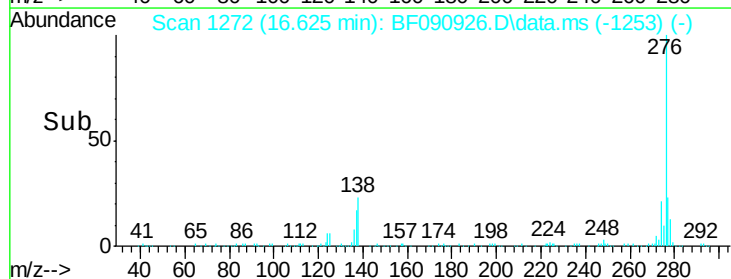
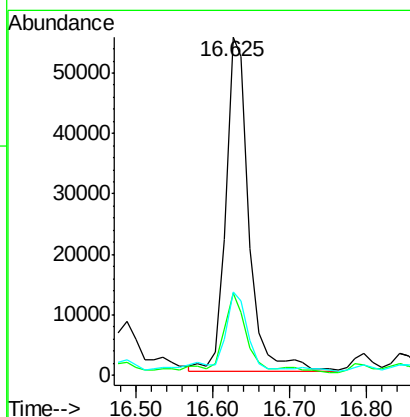
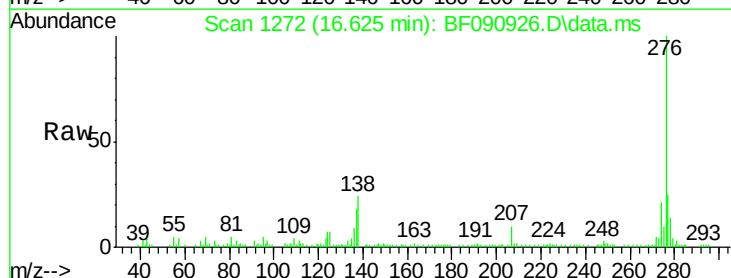
Tgt Ion:276 Resp: 117608

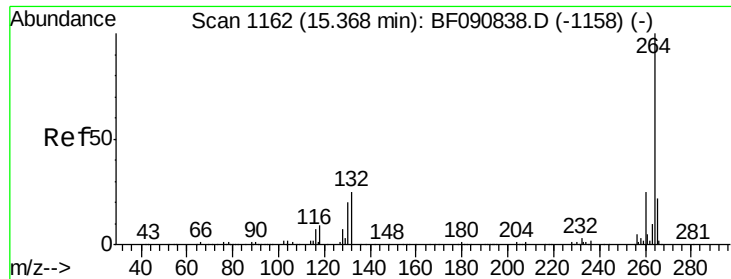
Ion Ratio Lower Upper

276 100

138 24.3 25.7 38.5#

277 26.6 15.6 23.4#

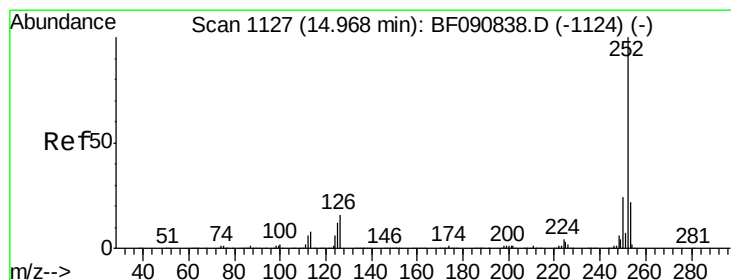
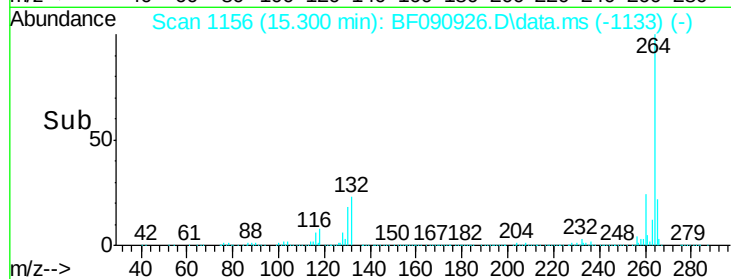
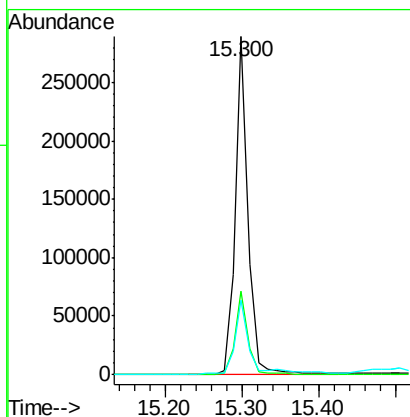
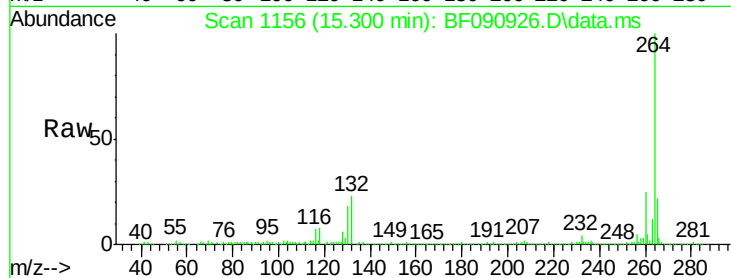




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.300 min Scan# 111
Delta R.T. -0.034 min
Lab File: BF090926.D
Acq: 31 Oct 2016 14:22

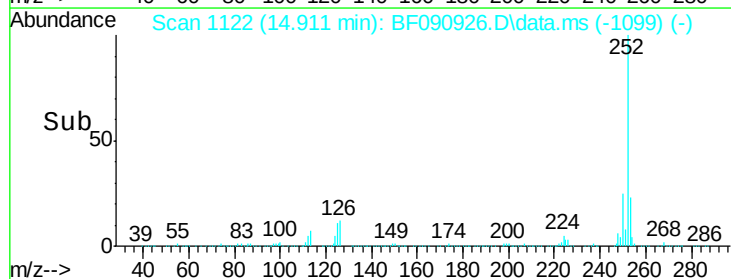
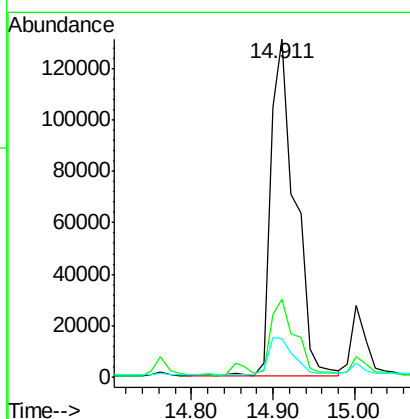
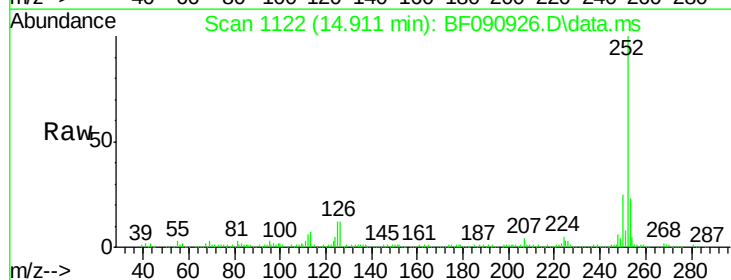
Instrument :
BNA_F
ClientSampleId :

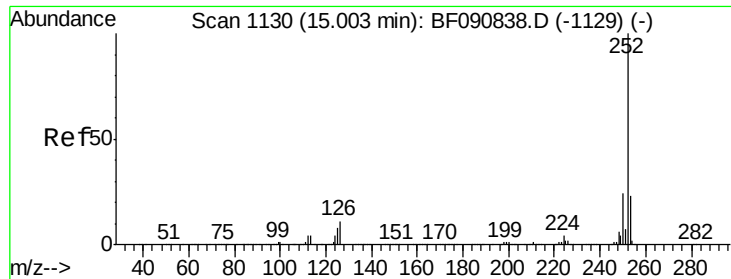
Tot Ion:264 Resp: 343010
Ion Ratio Lower Upper
264 100
260 24.6 16.7 25.1
265 22.1 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 11.72 ng
RT: 14.911 min Scan# 1122
Delta R.T. -0.034 min
Lab File: BF090926.D
Acq: 31 Oct 2016 14:22

Tgt Ion:252 Resp: 270427
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 11.5 17.1 25.7#





#88

Benzo(k)fluoranthene

Concen: 14.84 ng

RT: 14.911 min Scan# 111

Delta R.T. -0.057 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :

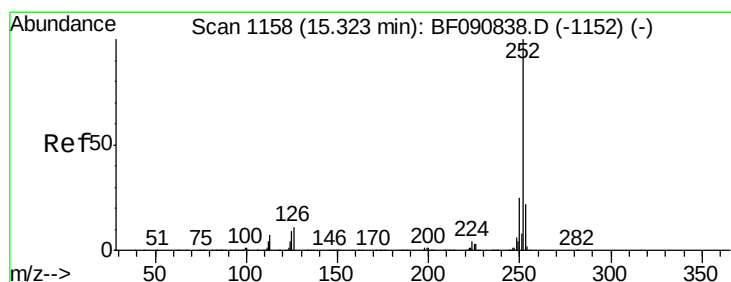
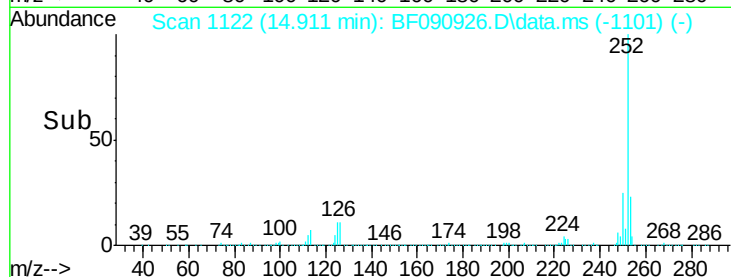
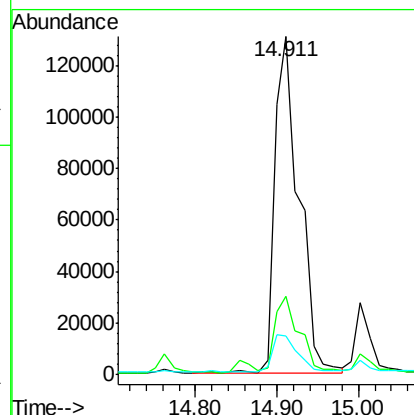
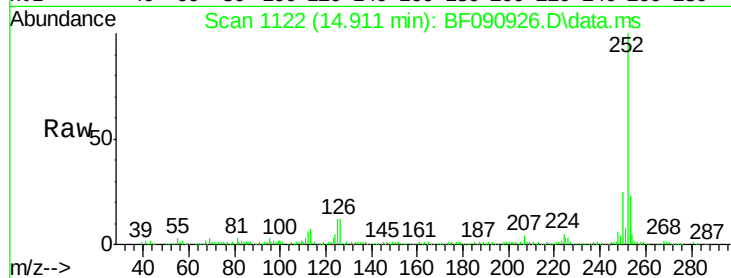
Tot Ion:252 Resp: 270427

Ion Ratio Lower Upper

252 100

253 23.0 17.0 25.4

125 11.5 16.0 24.0#



#89

Benzo(a)pyrene

Concen: 7.75 ng

RT: 15.243 min Scan# 1151

Delta R.T. -0.045 min

Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

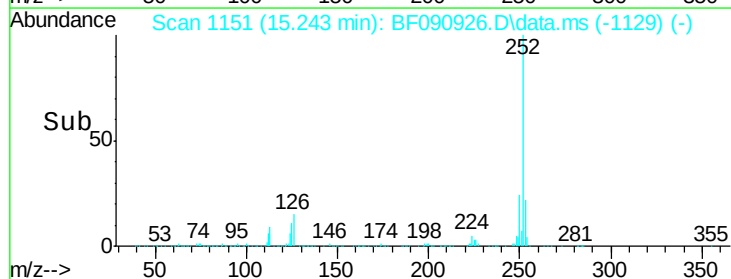
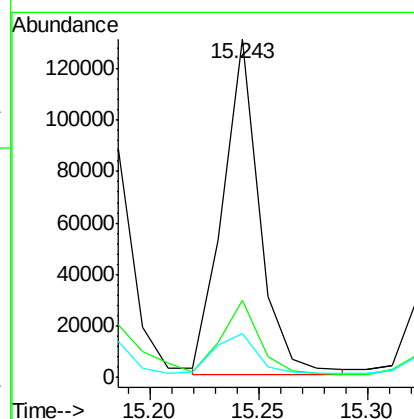
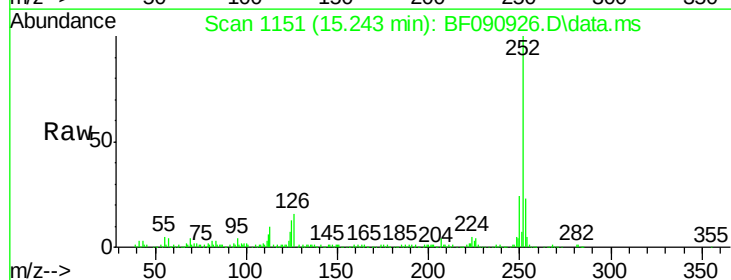
Tgt Ion:252 Resp: 153568

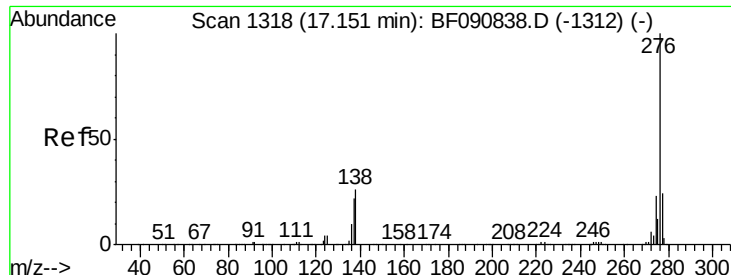
Ion Ratio Lower Upper

252 100

253 22.6 17.2 25.8

125 12.8 18.0 27.0#





#91

Benzo(a,h,i)perylene

Concen: 7.70 ng

RT: 17.026 min Scan# 13

Delta R.T. -0.080 min

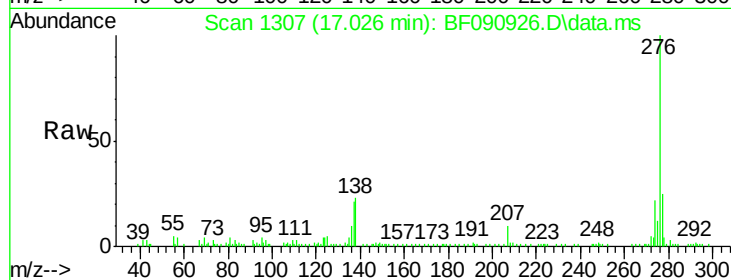
Lab File: BF090926.D

Acq: 31 Oct 2016 14:22

Instrument :

BNA_F

ClientSampleId :



Tot Ion: 276 Resp: 121713

Ion Ratio Lower Upper

276 100

277 24.6 17.8 26.6

138 22.8 34.6 51.8#

