

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072117\
 Data File : BF096968.D
 Acq On : 22 Jul 2017 4:11
 Operator : SJ/JU
 Sample : I4253-06DL 250X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-07-WSWDL

Quant Time: Jul 24 13:45:44 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

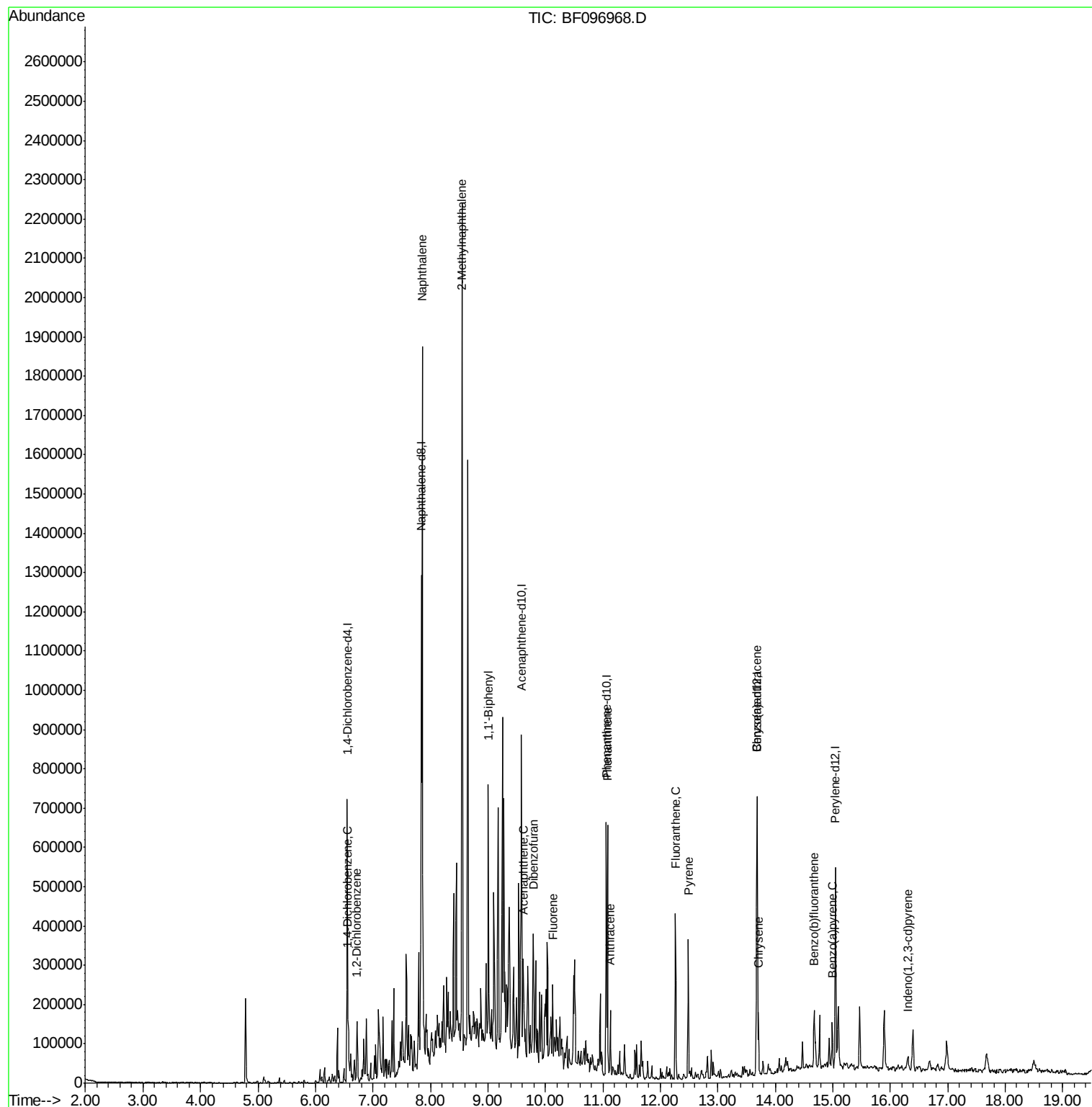
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.55	152	108186	20.00	ng	-0.05
21) Naphthalene-d8	7.84	136	409533	20.00	ng	-0.05
38) Acenaphthene-d10	9.58	164	153922	20.00	ng	-0.05
63) Phenanthrene-d10	11.06	188	205862	20.00	ng	-0.05
75) Chrysene-d12	13.69	240	212673	20.00	ng	-0.05
86) Perylene-d12	15.04	264	189176	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	2709	0.38	ng	-0.02
7) Phenol-d6	6.22	99	3293	0.38	ng	-0.03
23) Nitrobenzene-d5	7.12	82	3478	0.53	ng	-0.05
41) 2,4,6-Tribromophenol	10.37	330	290	0.22	ng	-0.05
44) 2-Fluorobiphenyl	8.91	172	4525	0.46	ng	-0.05
78) Terphenyl-d14	12.64	244	2420	0.20	ng	-0.05
Target Compounds				Qvalue		
13) 1,4-Dichlorobenzene	6.57	146	31722	3.796	ng	95
14) 1,2-Dichlorobenzene	6.72	146	30908	4.067	ng	96
31) Naphthalene	7.86	128	786260	40.528	ng	99
37) 2-Methylnaphthalene	8.55	142	598011	48.350	ng	99
45) 1,1'-Biphenyl	9.01	154	52277	3.960	ng	97
51) Acenaphthene	9.62	154	39366	4.303	ng	93
54) Dibenzofuran	9.79	168	29321	2.287	ng	# 79
57) Fluorene	10.13	166	40118	4.234	ng	# 98
70) Phenanthrene	11.08	178	211156	18.864	ng	99
71) Anthracene	11.13	178	54977	4.858	ng	98
74) Fluoranthene	12.26	202	154050	14.378	ng	98
77) Pyrene	12.49	202	139431	7.224	ng	98
80) Benzo(a)anthracene	13.67	228	64761	4.887	ng	99
82) Chrysene	13.71	228	61103	4.684	ng	96
85) Indeno(1,2,3-cd)pyrene	16.30	276	18956	4.839	ng	98
87) Benzo(b)fluoranthene	14.67	252	65012m	5.698	ng	
89) Benzo(a)pyrene	14.99	252	46029	4.399	ng	96

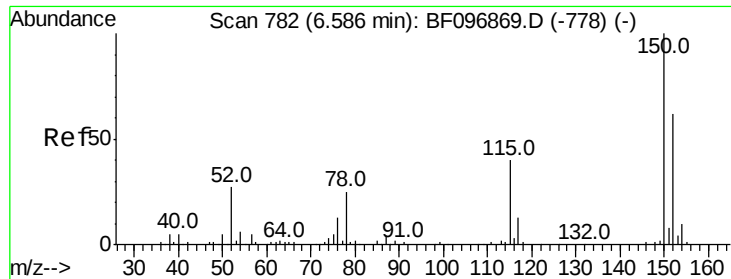
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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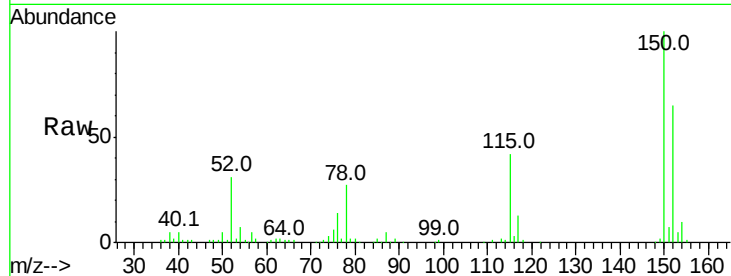


#1

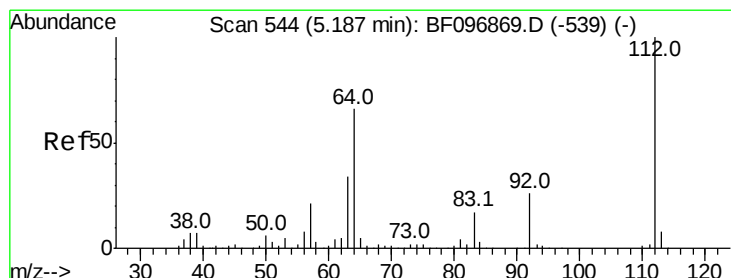
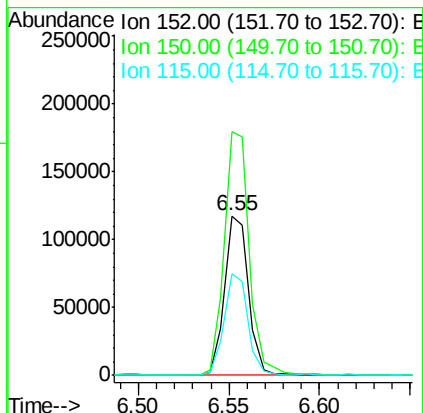
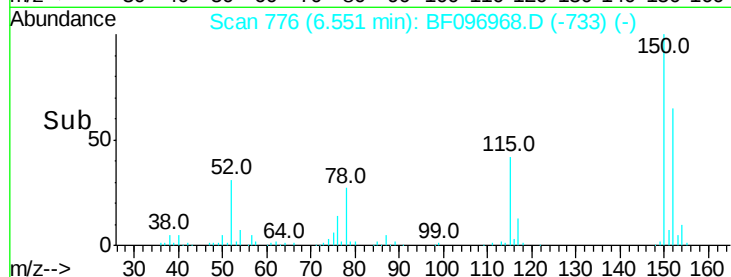
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.55 min Scan# 776
Delta R.T. -0.05 min
Lab File: BF096968.D
Acq: 22 Jul 2017 4:11

Instrument :
BNA_F
ClientSampleId :
E2-07-WSWDL

Tot Ion:152 Resp: 108186
Ion Ratio Lower Upper
152 100
150 152.8 126.2 189.2
115 64.1 52.2 78.2



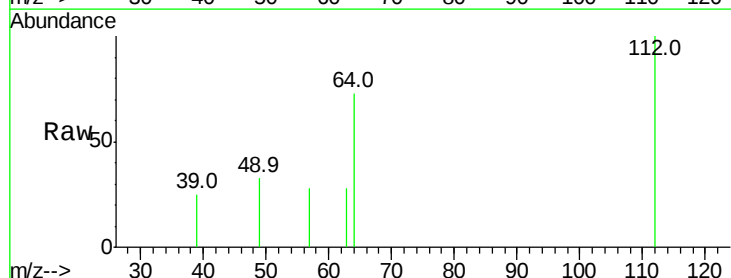
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



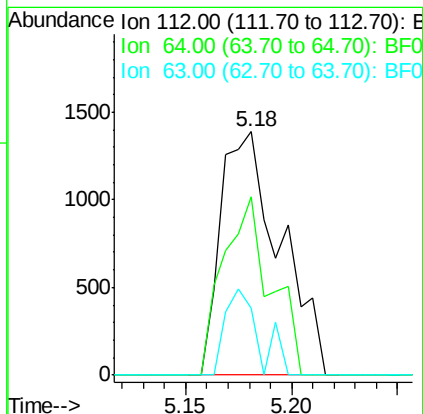
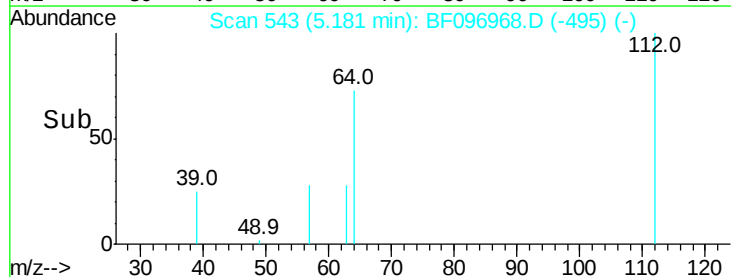
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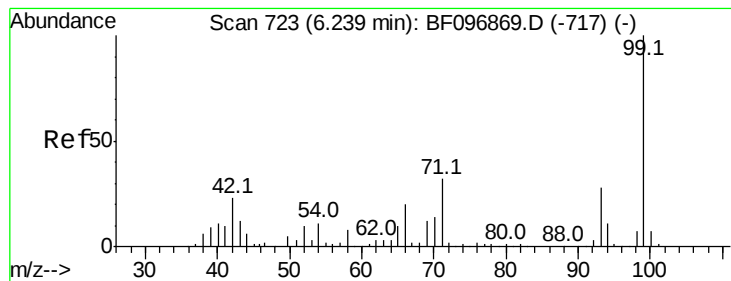
2-Fluorophenol
Concen: 0.377 ng
RT: 5.18 min Scan# 543
Delta R.T. -0.02 min
Lab File: BF096968.D
Acq: 22 Jul 2017 4:11

Tgt Ion:112 Resp: 2709
Ion Ratio Lower Upper
112 100
64 73.1 46.0 69.0#
63 27.5 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: 0.381 ng

RT: 6.22 min Scan# 720

Delta R.T. -0.03 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

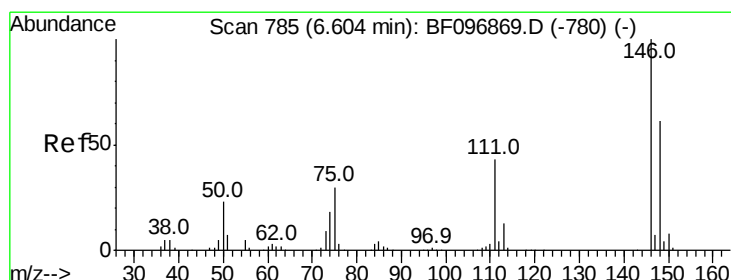
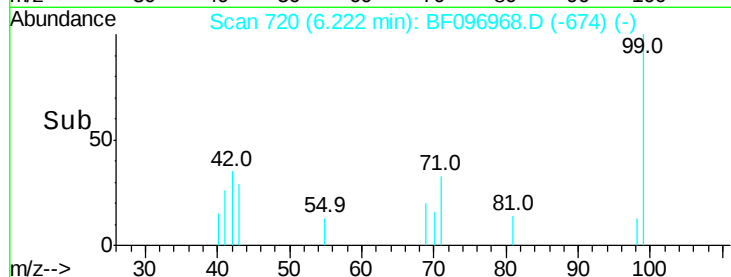
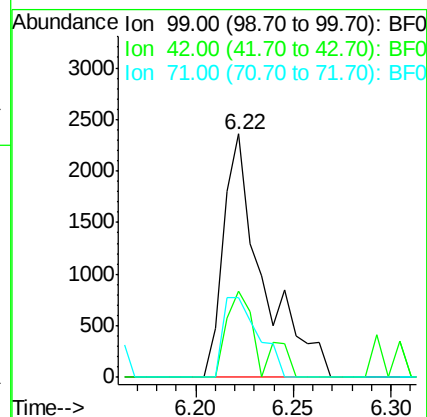
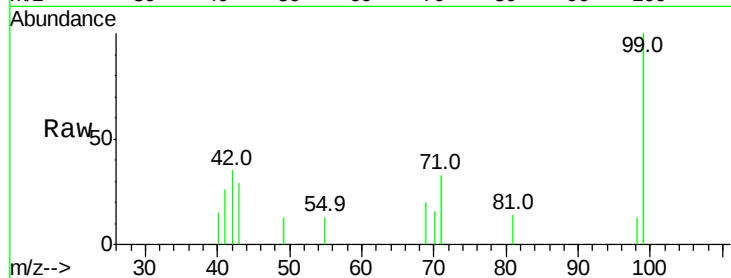
BNA_F

ClientSampleId :

E2-07-WSWDL

Tot Ion: 99 Resp: 3293

Ion	Ratio	Lower	Upper
99	100		
42	35.3	13.5	20.3#
71	32.7	24.5	36.7



#13

1,4-Dichlorobenzene

Concen: 3.796 ng

RT: 6.57 min Scan# 779

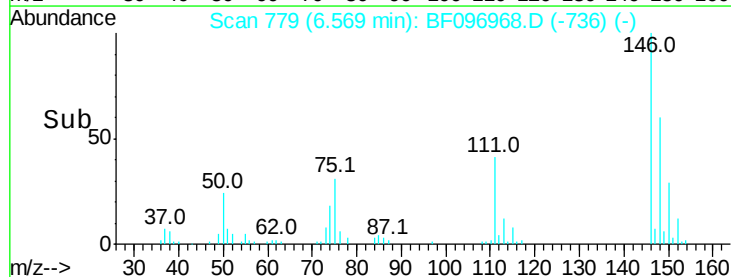
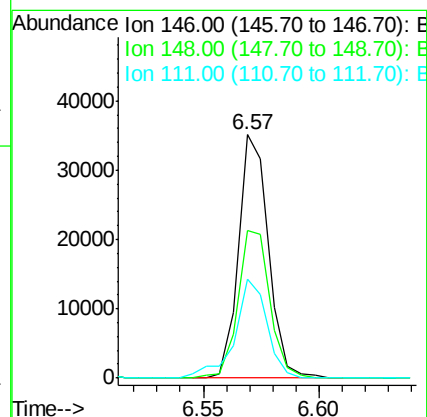
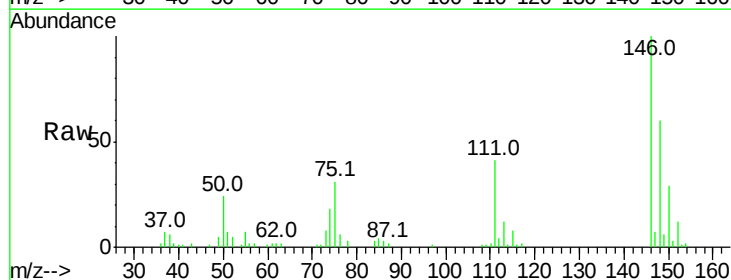
Delta R.T. -0.05 min

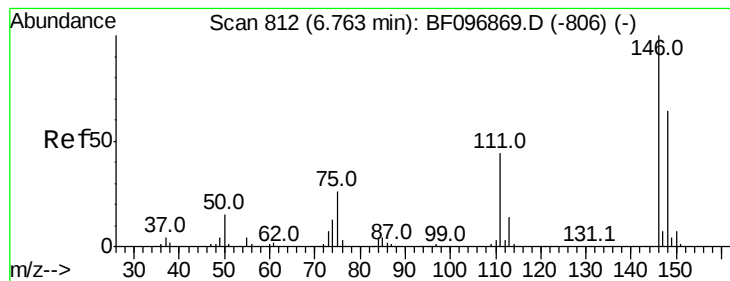
Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Tgt Ion: 146 Resp: 31722

Ion	Ratio	Lower	Upper
146	100		
148	60.5	52.2	78.2
111	40.5	30.3	45.5





#14

1,2-Dichlorobenzene

Concen: 4.067 ng

RT: 6.72 min Scan# 805

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

BNA_F

ClientSampleId :

E2-07-WSWDL

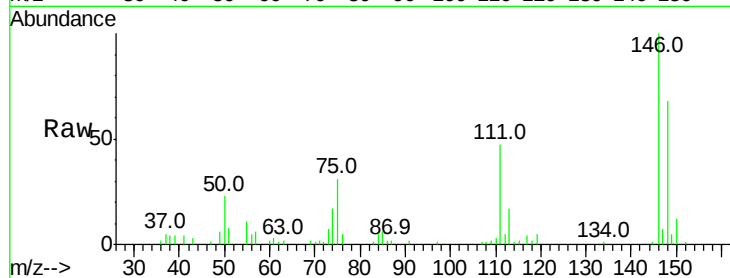
Tot Ion:146 Resp: 30908

Ion Ratio Lower Upper

146 100

148 68.1 50.4 75.6

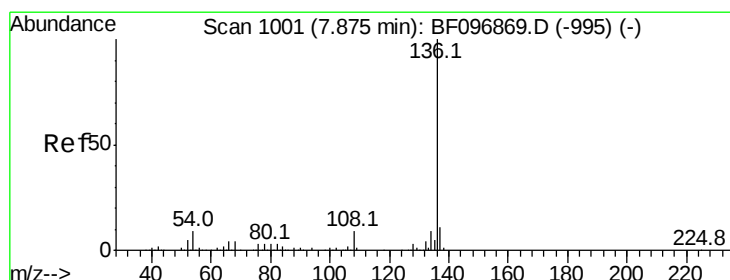
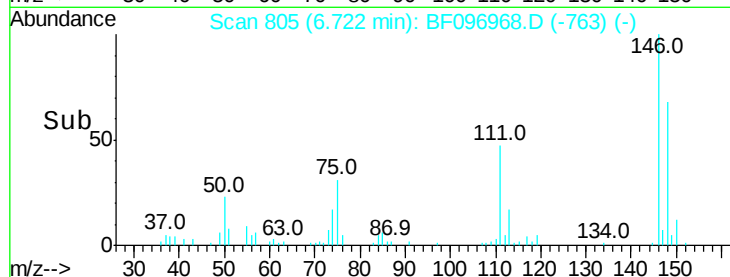
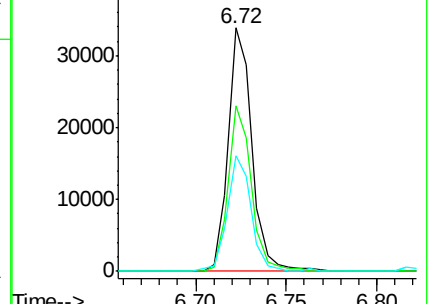
111 47.3 38.2 57.4



Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.84 min Scan# 995

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Tgt Ion:136 Resp: 409533

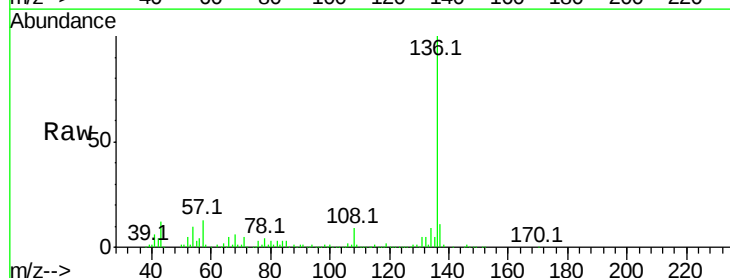
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 10.0 4.9 7.3#

68 5.6 4.1 6.1

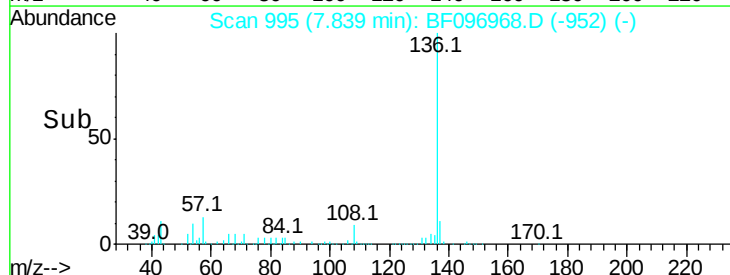
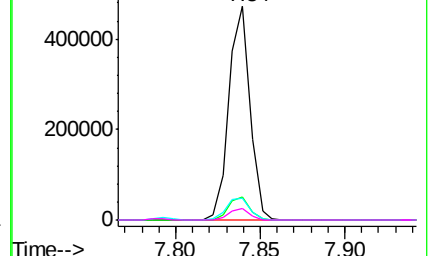


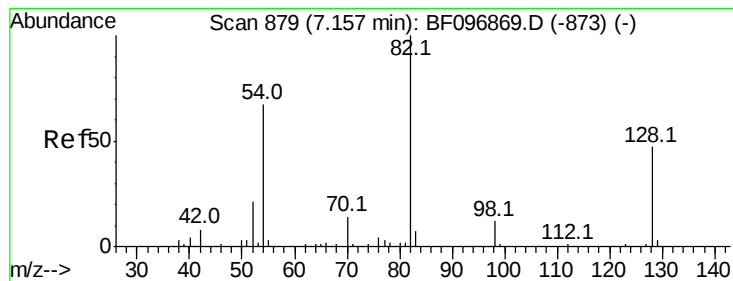
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 0.526 ng

RT: 7.12 min Scan# 873

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

BNA_F

ClientSampleId :

E2-07-WSWDL

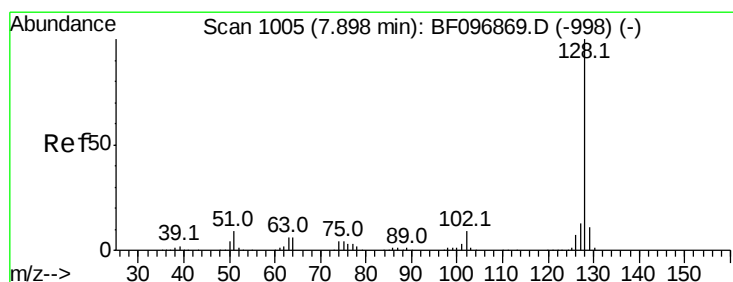
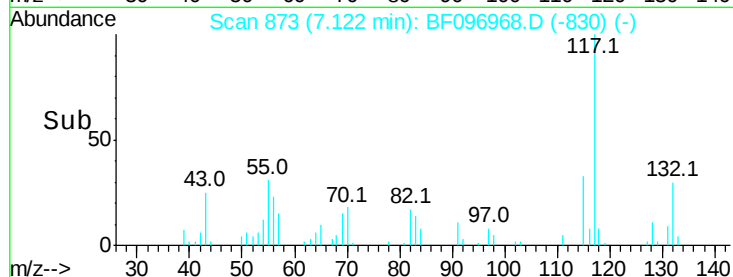
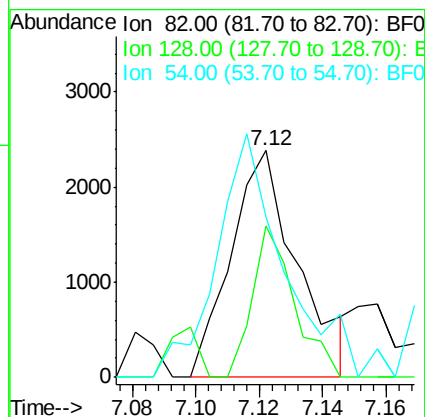
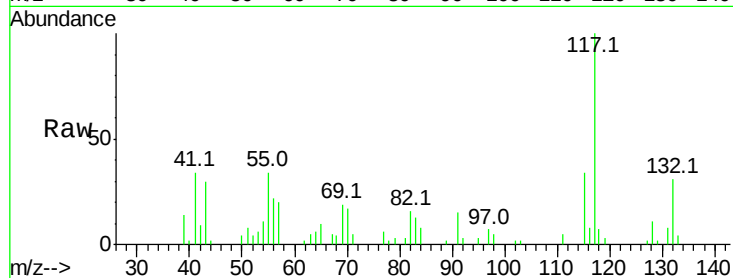
Tot Ion: 82 Resp: 3478

Ion Ratio Lower Upper

82 100

128 66.8 34.0 51.0#

54 70.9 42.2 63.2#



#31

Naphthalene

Concen: 40.528 ng

RT: 7.86 min Scan# 999

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

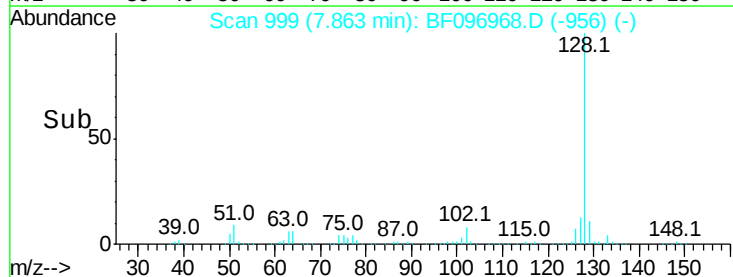
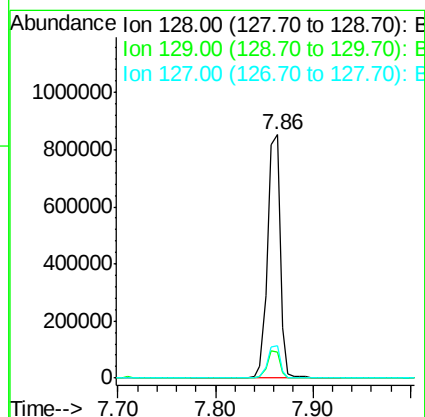
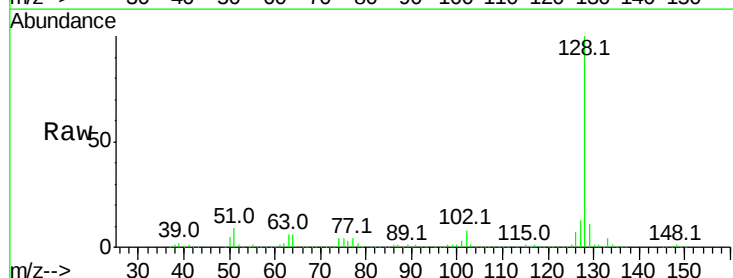
Tgt Ion:128 Resp: 786260

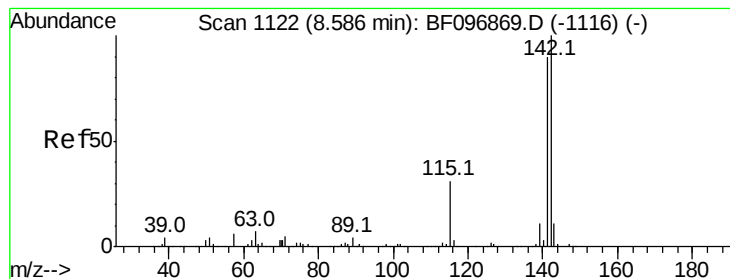
Ion Ratio Lower Upper

128 100

129 10.8 9.0 13.6

127 13.1 10.8 16.2

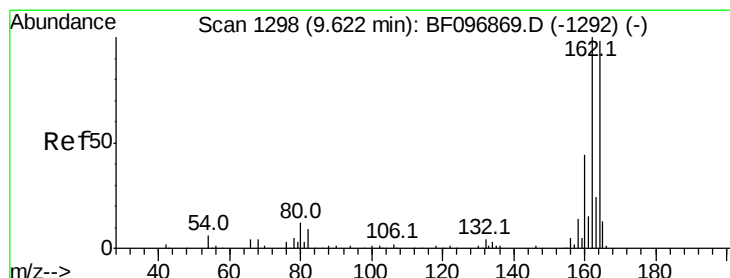
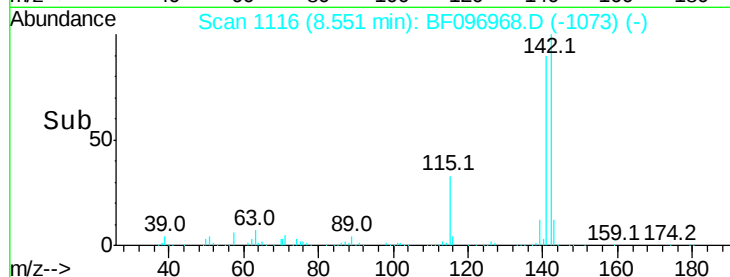
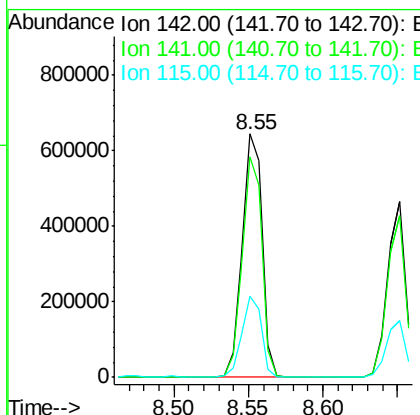
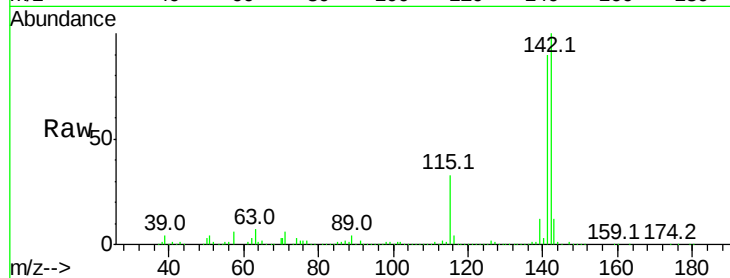




#37
 2-Methylnaphthalene
 Concen: 48.350 ng
 RT: 8.55 min Scan# 1116
 Delta R.T. -0.05 min
 Lab File: BF096968.D
 Acq: 22 Jul 2017 4:11

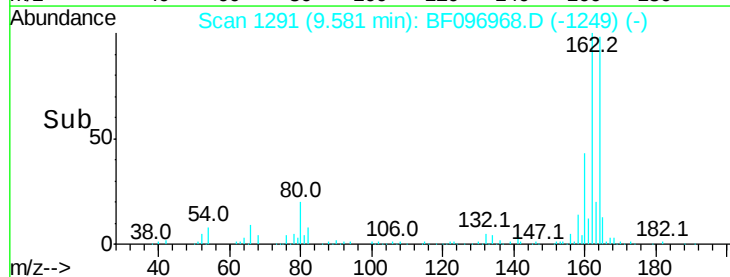
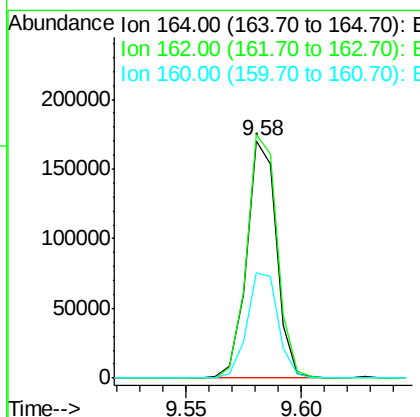
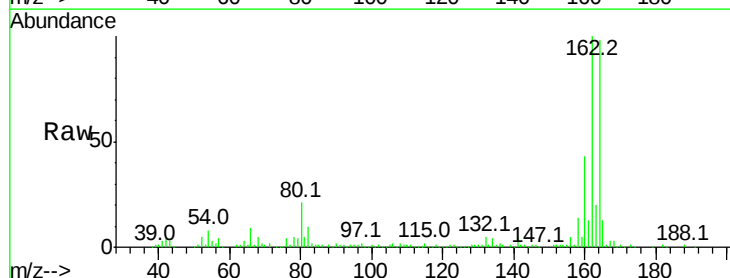
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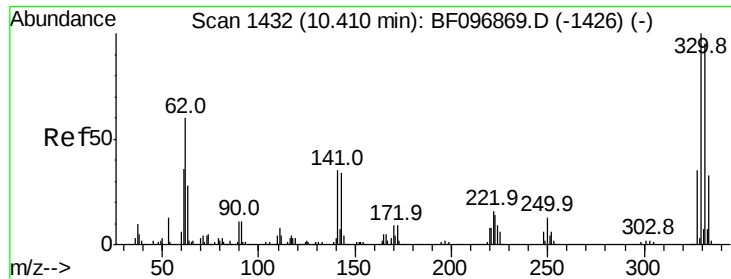
Tot Ion	Ratio	Lower	Upper
142	100		
141	90.3	71.3	106.9
115	33.4	27.1	40.7



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.58 min Scan# 1291
 Delta R.T. -0.05 min
 Lab File: BF096968.D
 Acq: 22 Jul 2017 4:11

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	82.6	123.8
160	44.4	36.2	54.2





#41

2,4,6-Tribromophenol

Concen: 0.221 ng

RT: 10.37 min Scan# 1426

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

BNA_F

ClientSampleId :

E2-07-WSWDL

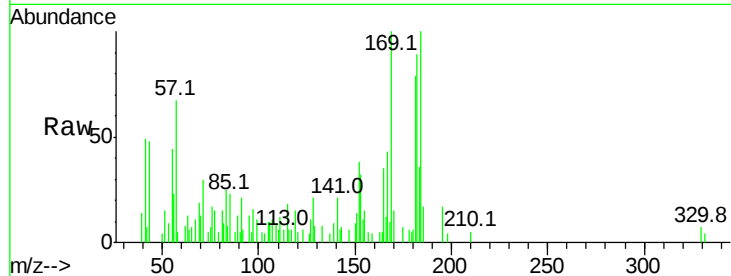
Tot Ion:330 Resp: 290

Ion Ratio Lower Upper

330 100

332 38.3 76.6 115.0#

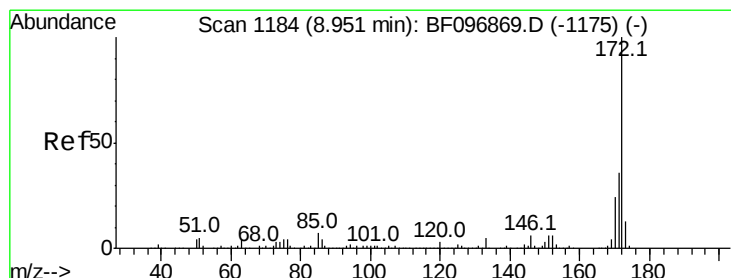
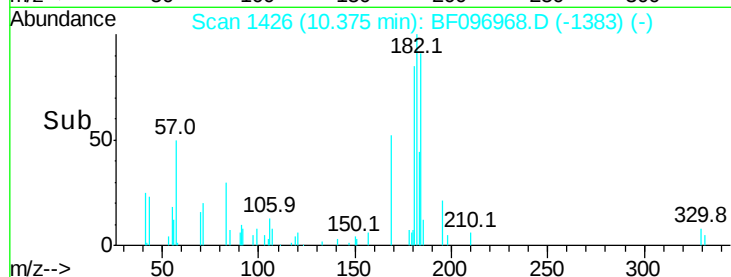
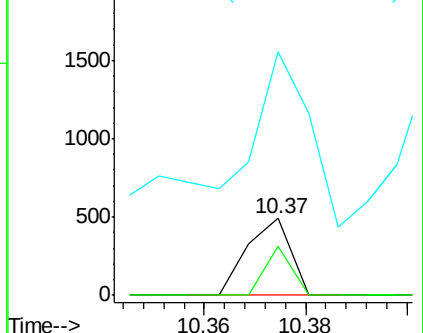
141 1070.3 31.4 47.2#



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: 0.464 ng

RT: 8.91 min Scan# 1177

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

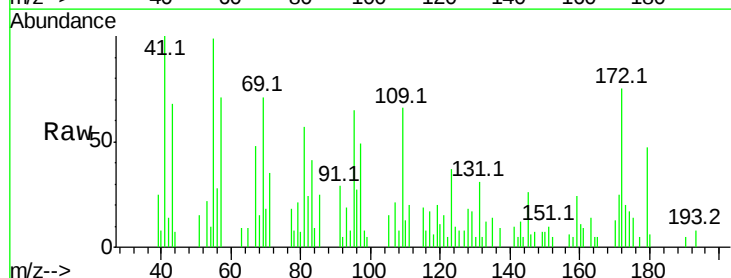
Tgt Ion:172 Resp: 4525

Ion Ratio Lower Upper

172 100

171 33.2 29.6 44.4

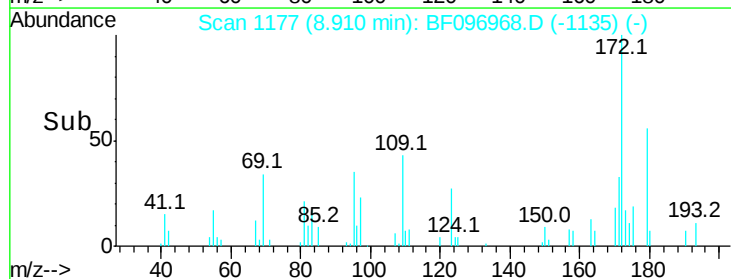
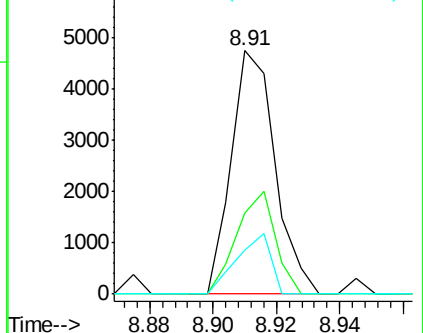
170 17.9 19.8 29.8#

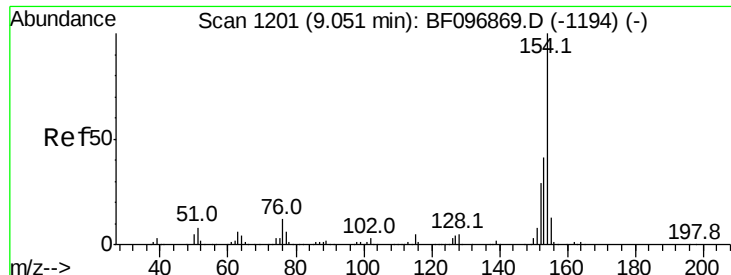


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

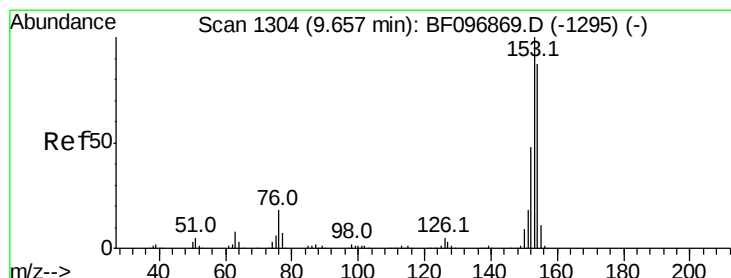
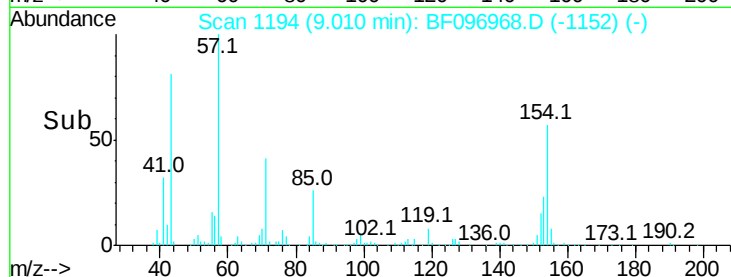
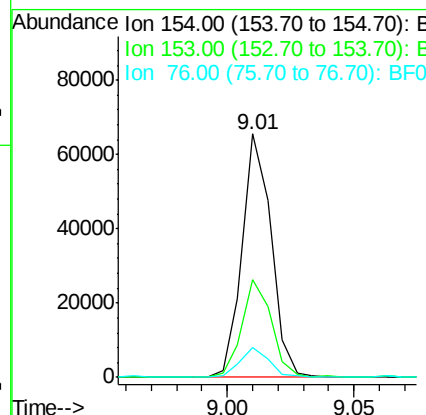
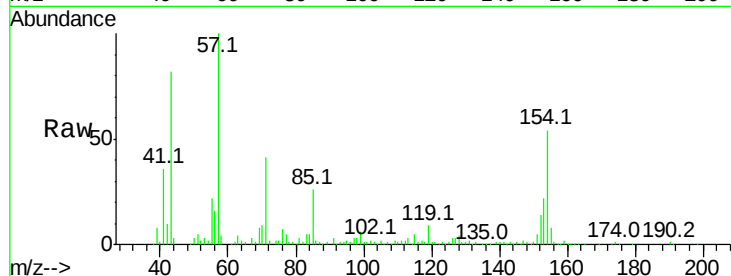




#45
 1,1'-Biphenyl
 Concen: 3.960 ng
 RT: 9.01 min Scan# 1194
 Delta R.T. -0.05 min
 Lab File: BF096968.D
 Acq: 22 Jul 2017 4:11

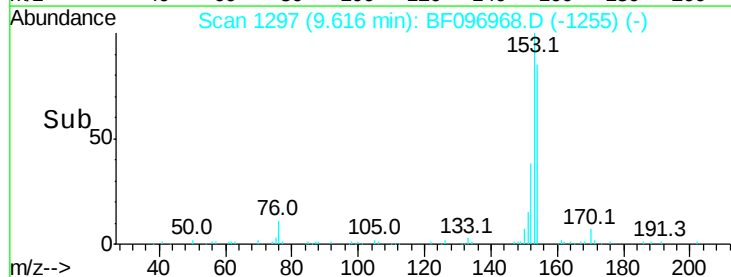
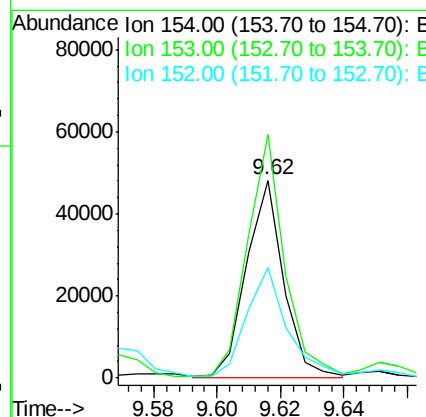
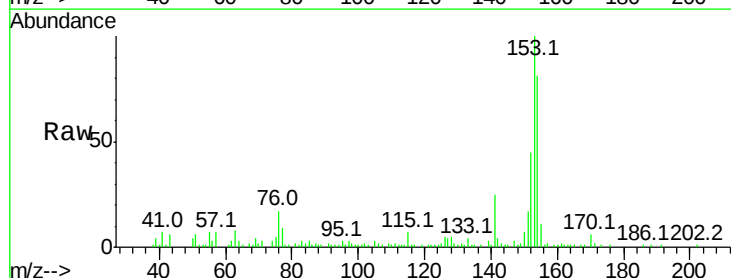
Instrument :
 BNA_F
 ClientSampleId :
 E2-07-WSWDL

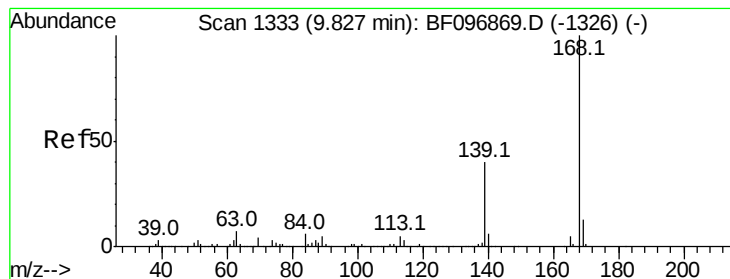
Tot Ion:154 Resp: 52277
 Ion Ratio Lower Upper
 154 100
 153 40.0 21.2 61.2
 76 12.4 0.0 29.9



#51
 Acenaphthene
 Concen: 4.303 ng
 RT: 9.62 min Scan# 1297
 Delta R.T. -0.05 min
 Lab File: BF096968.D
 Acq: 22 Jul 2017 4:11

Tgt Ion:154 Resp: 39366
 Ion Ratio Lower Upper
 154 100
 153 123.1 90.5 135.7
 152 55.9 43.6 65.4





#54

Dibenzenofuran

Concen: 2.287 ng

RT: 9.79 min Scan# 1326

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

BNA_F

ClientSampleId :

E2-07-WSWDL

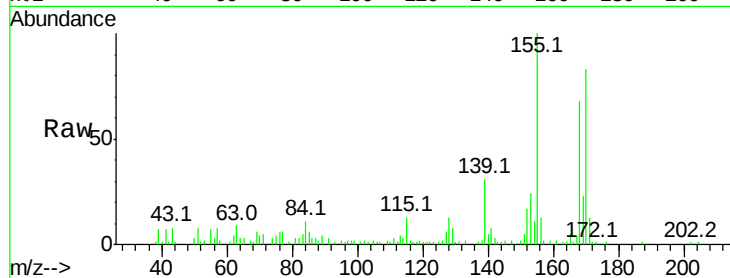
Tot Ion:168 Resp: 29321

Ion Ratio Lower Upper

168 100

139 44.9 30.6 45.8

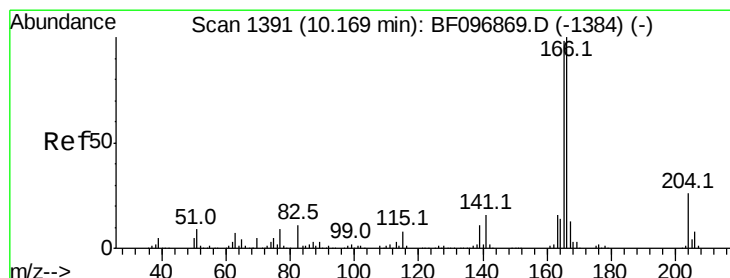
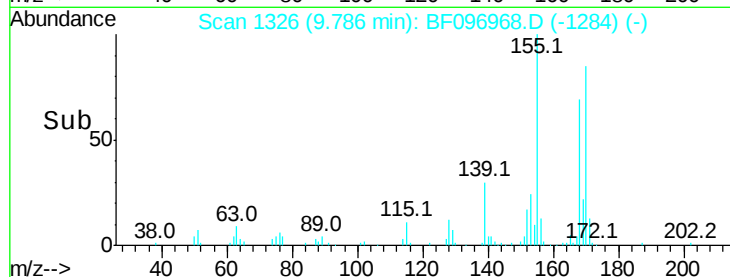
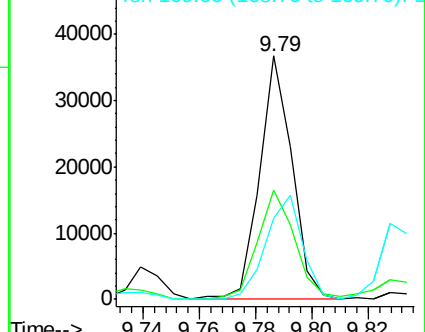
169 33.4 10.8 16.2#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#57

Fluorene

Concen: 4.234 ng

RT: 10.13 min Scan# 1384

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

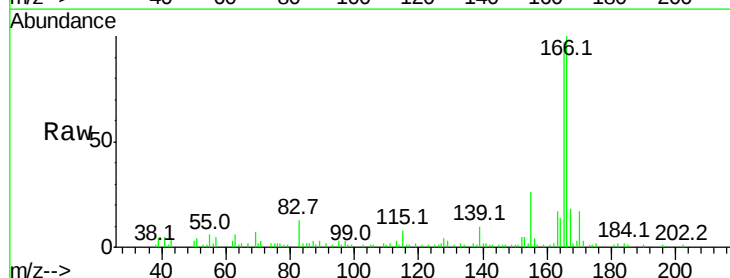
Tgt Ion:166 Resp: 40118

Ion Ratio Lower Upper

166 100

165 97.5 78.8 118.2

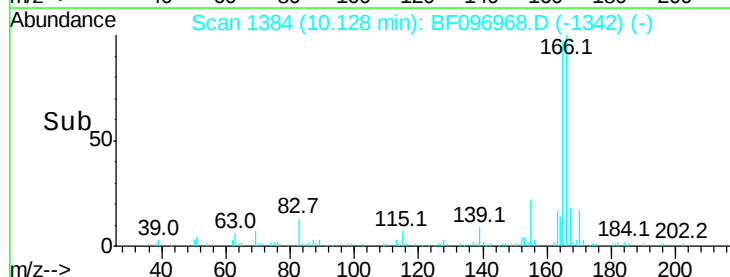
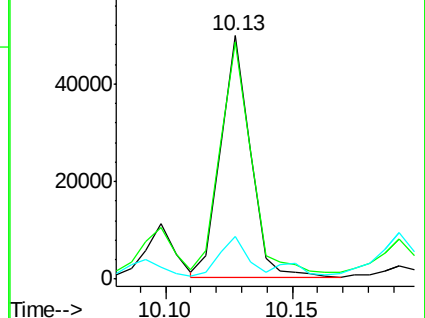
167 17.7 10.6 16.0#

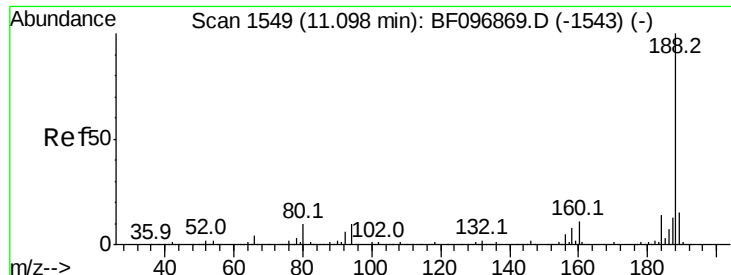


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.06 min Scan# 1542

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

BNA_F

ClientSampleId :

E2-07-WSWDL

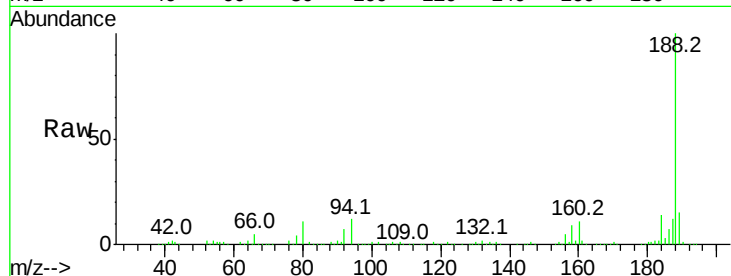
Tot Ion:188 Resp: 205862

Ion Ratio Lower Upper

188 100

94 12.3 9.4 14.2

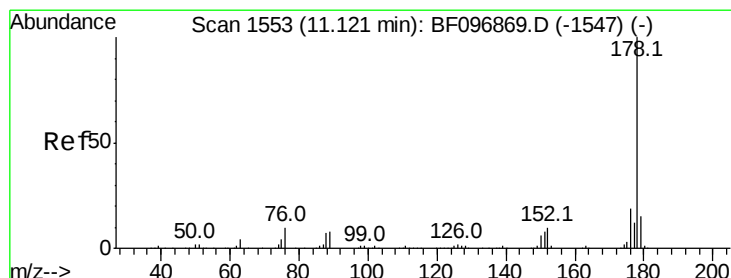
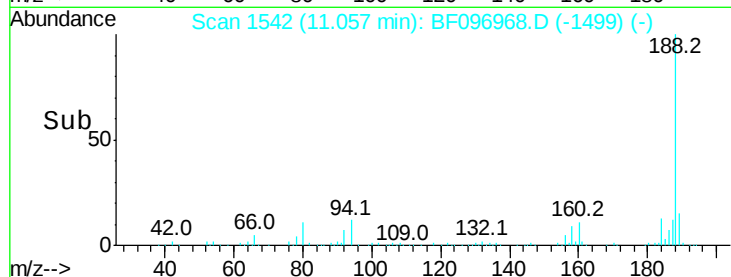
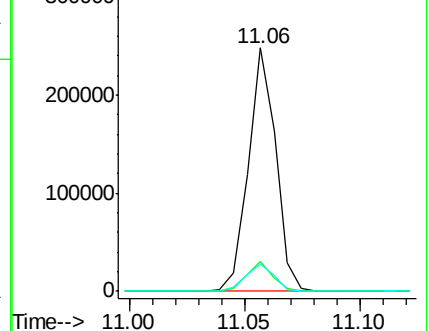
80 11.4 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 18.864 ng

RT: 11.08 min Scan# 1546

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

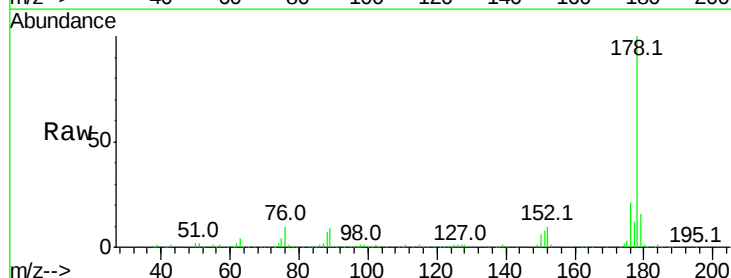
Tgt Ion:178 Resp: 211156

Ion Ratio Lower Upper

178 100

176 20.6 16.2 24.4

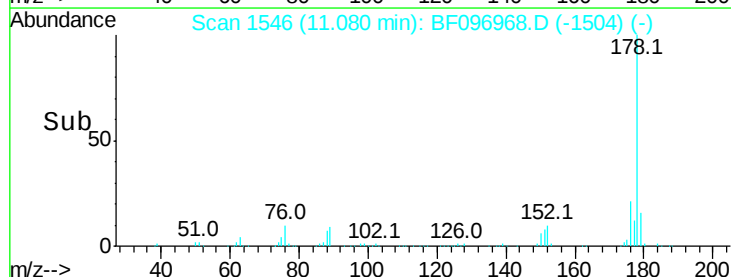
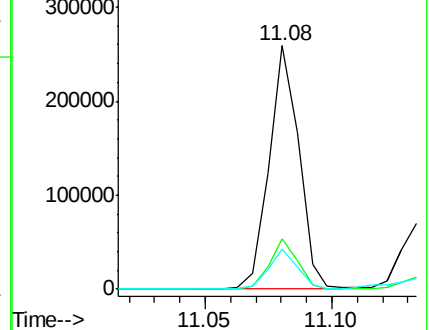
179 16.2 12.6 19.0

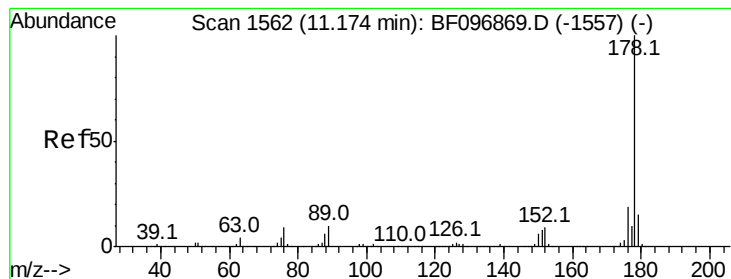


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 4.858 ng

RT: 11.13 min Scan# 1555

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

BNA_F

ClientSampleId :

E2-07-WSWDL

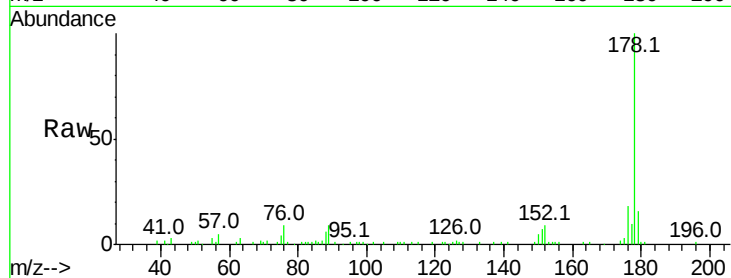
Tot Ion:178 Resp: 54977

Ion Ratio Lower Upper

178 100

176 18.2 15.8 23.8

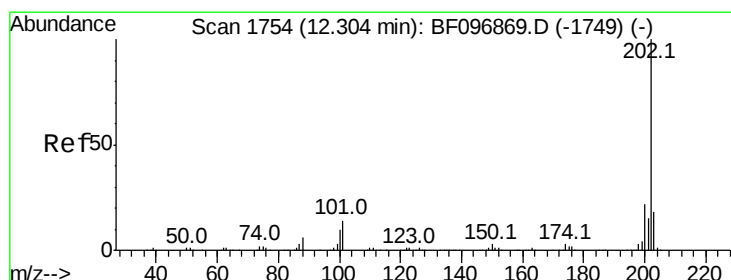
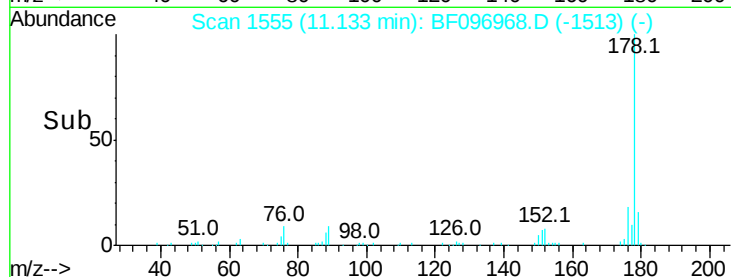
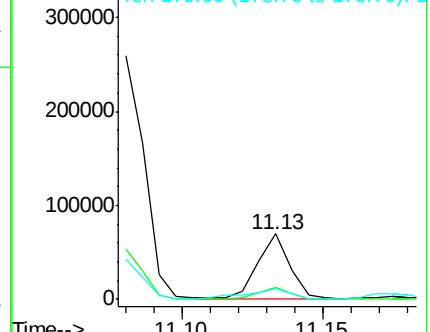
179 15.5 12.7 19.1



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: 14.378 ng

RT: 12.26 min Scan# 1747

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

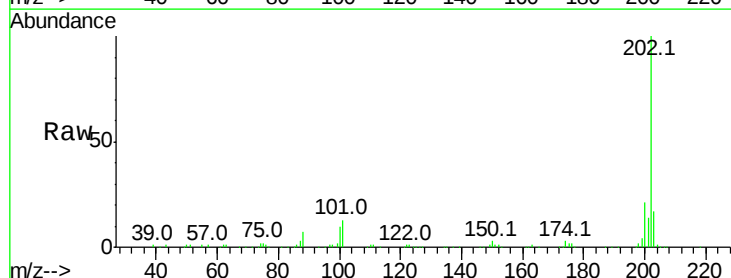
Tgt Ion:202 Resp: 154050

Ion Ratio Lower Upper

202 100

101 13.1 0.0 33.2

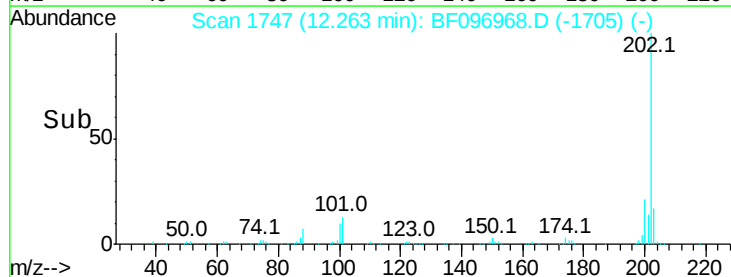
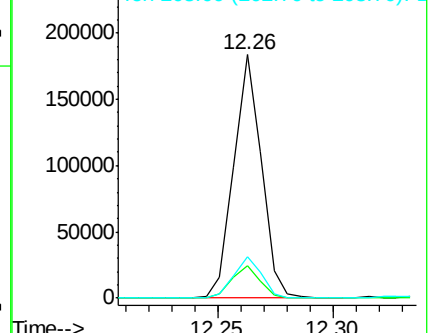
203 16.8 0.0 38.1

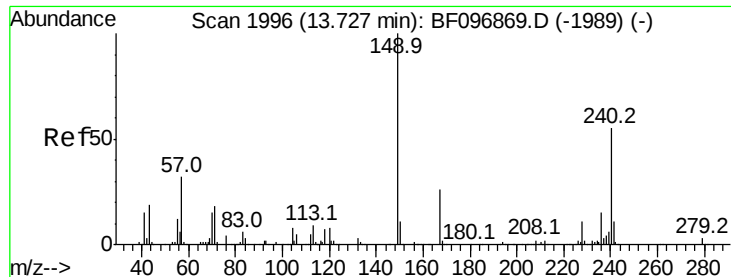


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.69 min Scan# 1989

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

BNA_F

ClientSampleId :

E2-07-WSWDL

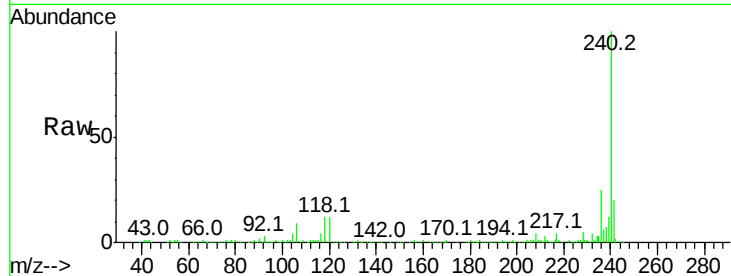
Tot Ion:240 Resp: 212673

Ion Ratio Lower Upper

240 100

120 12.1 5.8 8.8#

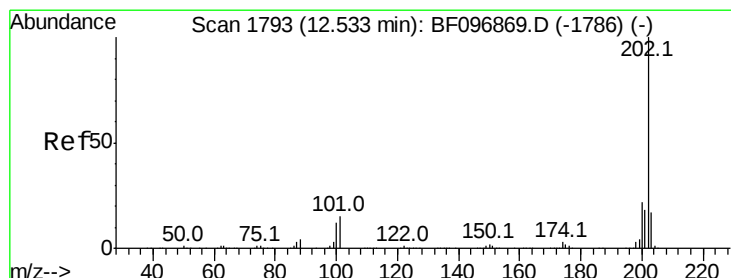
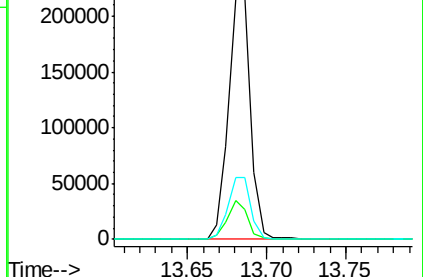
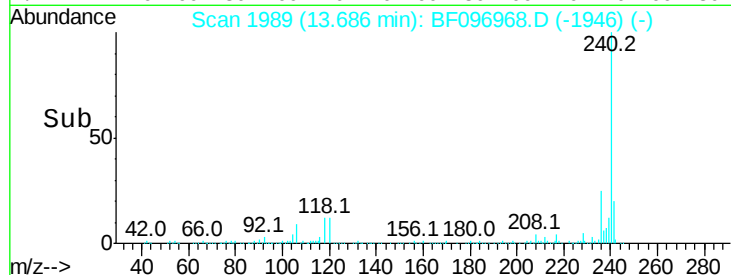
236 25.3 20.5 30.7



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: 7.224 ng

RT: 12.49 min Scan# 1785

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

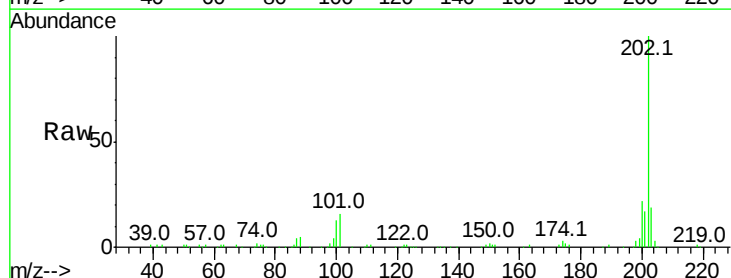
Tgt Ion:202 Resp: 139431

Ion Ratio Lower Upper

202 100

200 21.9 17.6 26.4

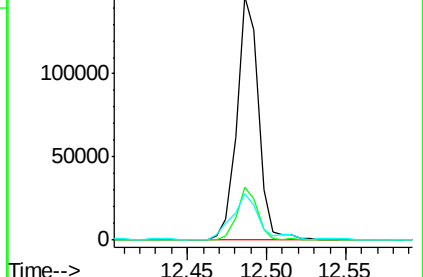
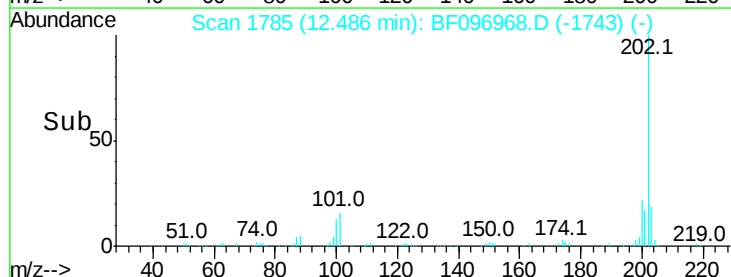
203 19.3 14.4 21.6

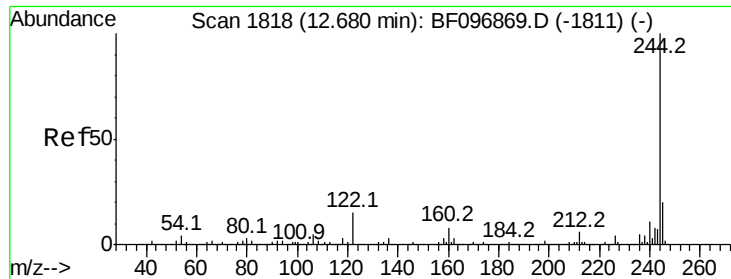


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

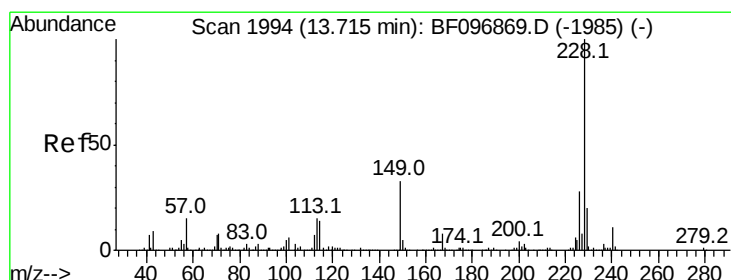
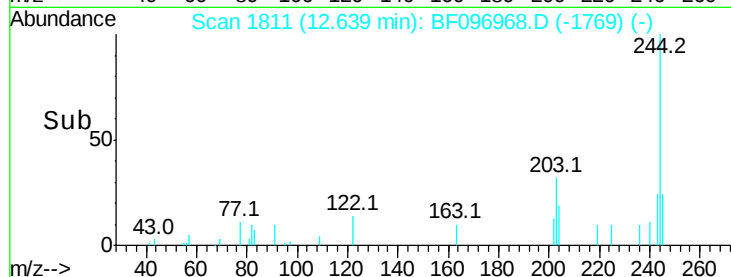
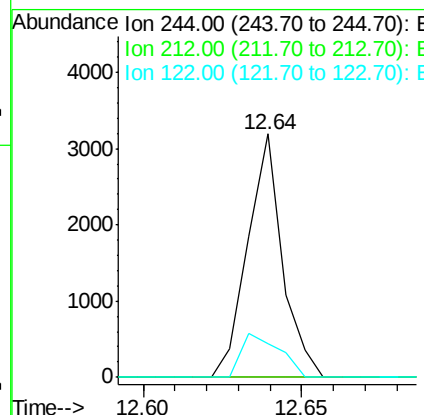
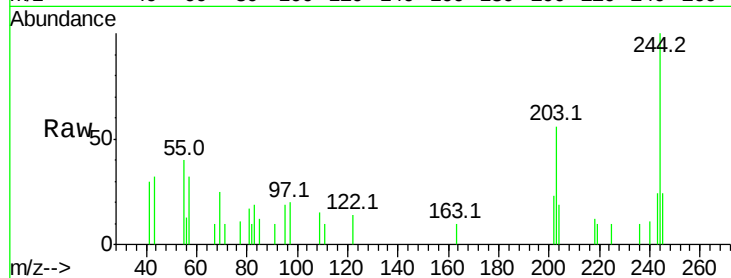




#78
 Terphenyl-d14
 Concen: 0.197 ng
 RT: 12.64 min Scan# 1811
 Delta R.T. -0.05 min
 Lab File: BF096968.D
 Acq: 22 Jul 2017 4:11

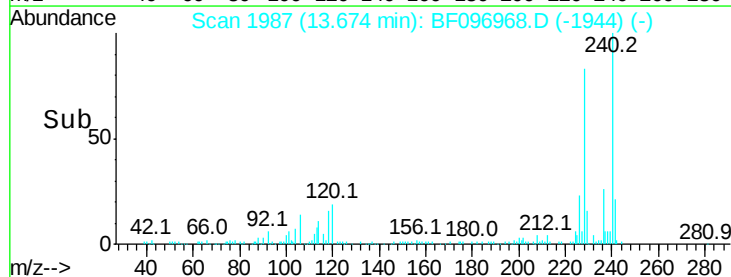
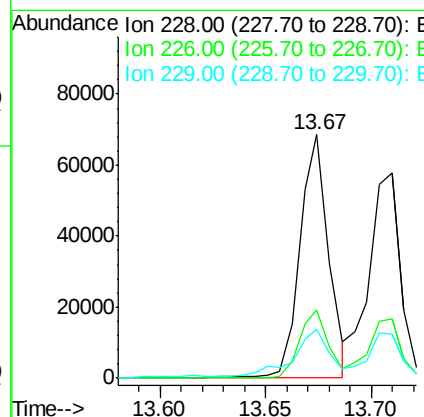
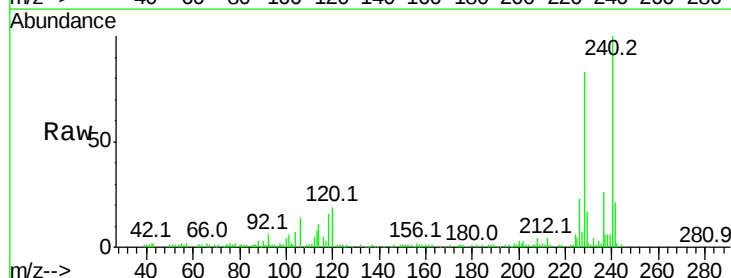
Instrument :
 BNA_F
 ClientSampleId :
 E2-07-WSWDL

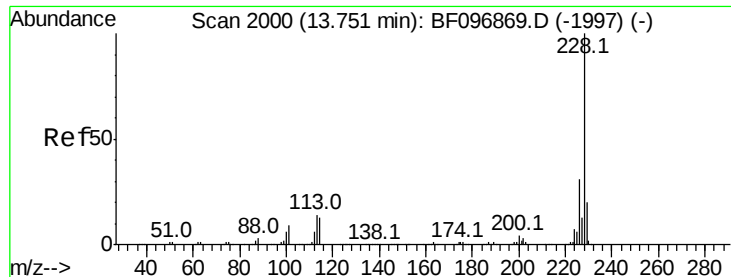
Tot Ion:244 Resp: 2420
 Ion Ratio Lower Upper
 244 100
 212 0.0 6.0 9.0#
 122 14.0 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 4.887 ng
 RT: 13.67 min Scan# 1987
 Delta R.T. -0.05 min
 Lab File: BF096968.D
 Acq: 22 Jul 2017 4:11

Tgt Ion:228 Resp: 64761
 Ion Ratio Lower Upper
 228 100
 226 27.8 22.6 33.8
 229 20.1 16.3 24.5





#82

Chrysene

Concen: 4.684 ng

RT: 13.71 min Scan# 1993

Delta R.T. -0.05 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

BNA_F

ClientSampleId :

E2-07-WSWDL

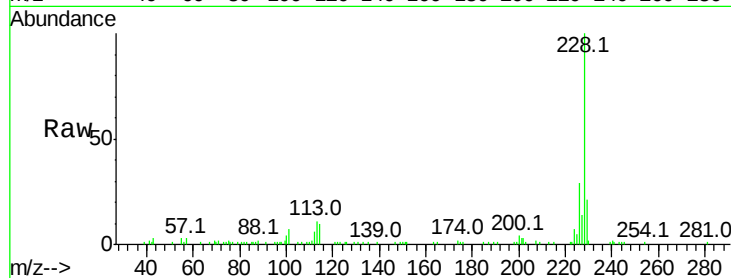
Tot Ion:228 Resp: 61103

Ion	Ratio	Lower	Upper
228	100		
226	29.2	24.9	37.3
229	21.4	15.8	23.6

228 100

226 29.2 24.9 37.3

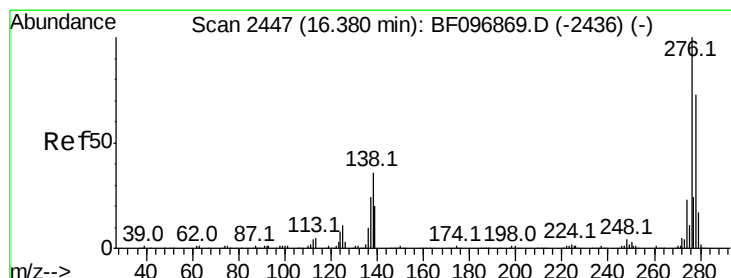
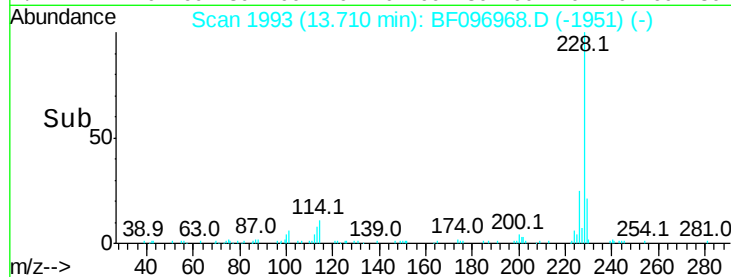
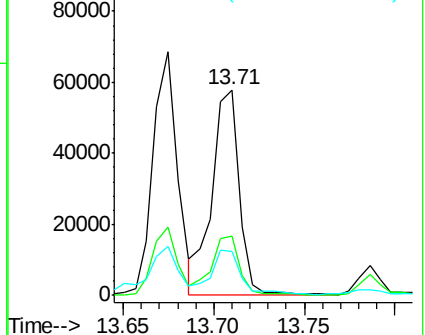
229 21.4 15.8 23.6



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: 4.839 ng

RT: 16.30 min Scan# 2434

Delta R.T. -0.09 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

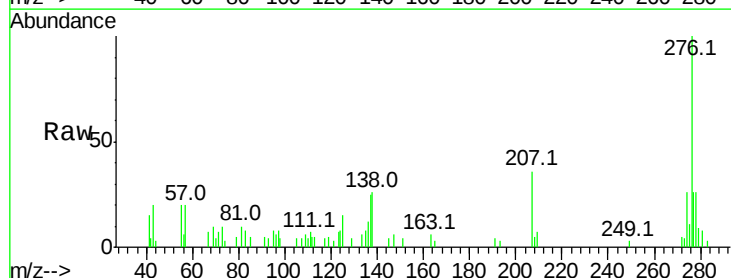
Tgt Ion:276 Resp: 18956

Ion	Ratio	Lower	Upper
276	100		
138	35.5	27.8	41.6
277	26.3	20.2	30.4

276 100

138 35.5 27.8 41.6

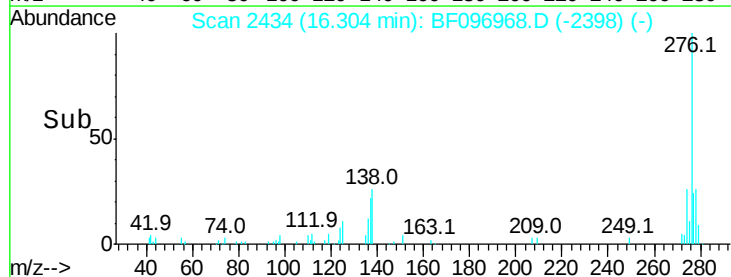
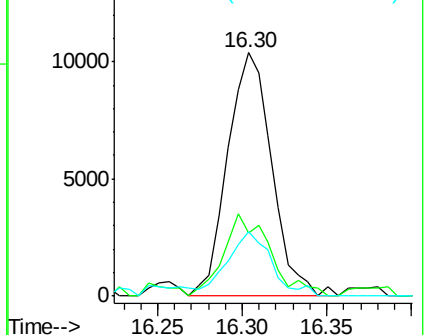
277 26.3 20.2 30.4

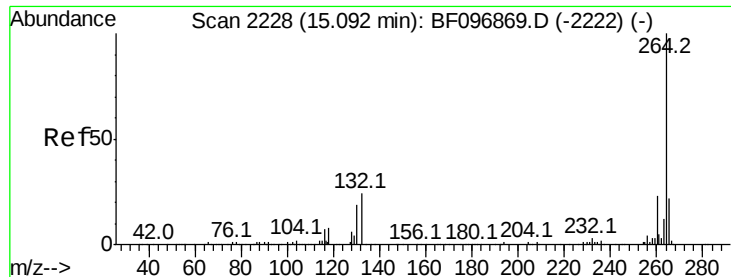


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

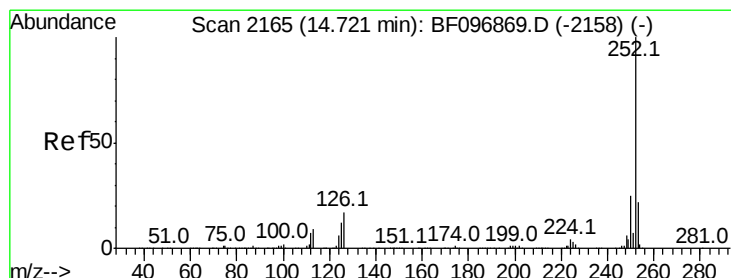
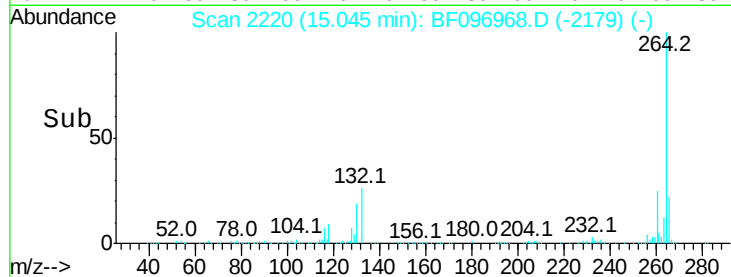
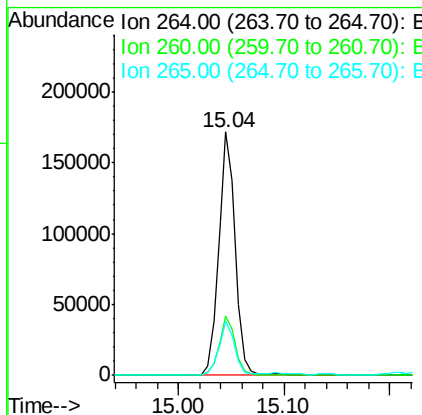
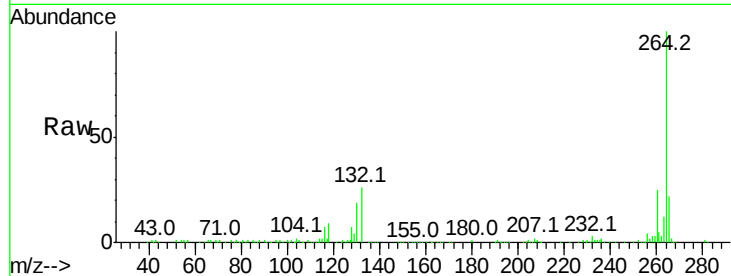




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.04 min Scan# 2220
Delta R.T. -0.06 min
Lab File: BF096968.D
Acq: 22 Jul 2017 4:11

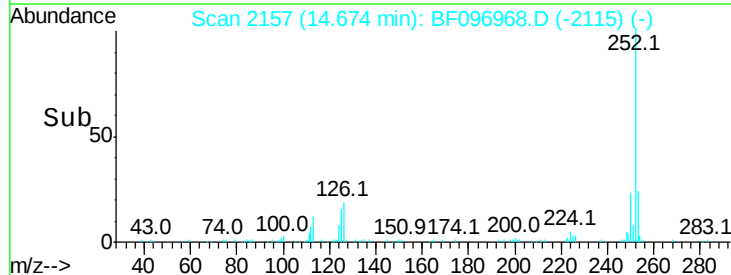
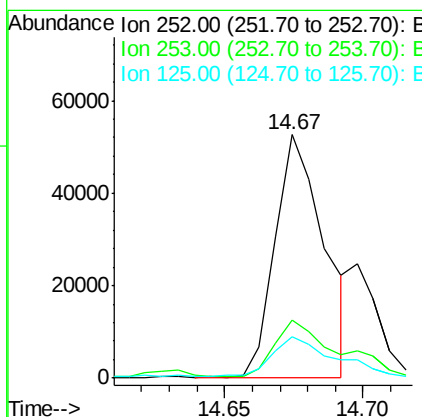
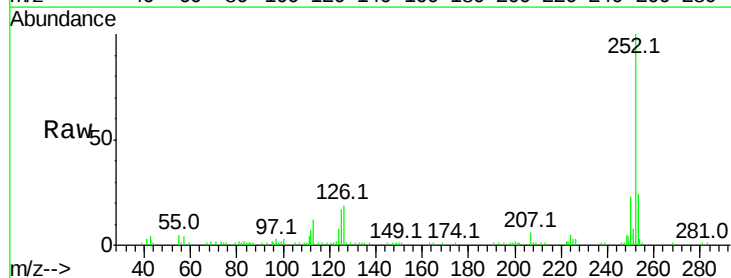
Instrument :
BNA_F
ClientSampleId :
E2-07-WSWDL

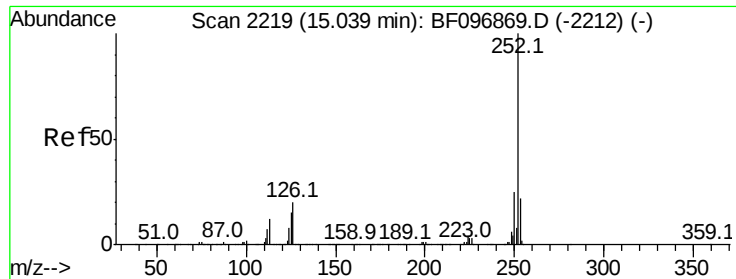
Tot Ion:264 Resp: 189176
Ion Ratio Lower Upper
264 100
260 24.6 19.5 29.3
265 22.1 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 5.698 ng m
RT: 14.67 min Scan# 2157
Delta R.T. -0.05 min
Lab File: BF096968.D
Acq: 22 Jul 2017 4:11

Tgt Ion:252 Resp: 65012
Ion Ratio Lower Upper
252 100
253 23.6 18.1 27.1
125 17.0 9.8 14.8#





#89

Benzo(a)pyrene

Concen: 4.399 ng

RT: 14.99 min Scan# 2211

Delta R.T. -0.06 min

Lab File: BF096968.D

Acq: 22 Jul 2017 4:11

Instrument :

BNA_F

ClientSampleId :

E2-07-WSWDL

Tot Ion: 252 Resp: 46029

Ion Ratio Lower Upper

252 100

253 20.7 17.5 26.3

125 15.7 11.0 16.4

