

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081217\
 Data File : BF097646.D
 Acq On : 12 Aug 2017 21:27
 Operator : SJ/JU
 Sample : I4631-07
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VE-3-1

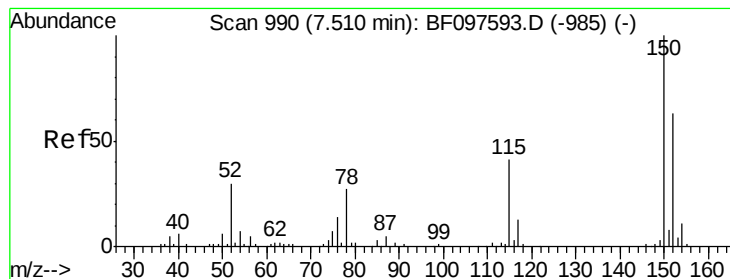
Quant Time: Aug 14 05:22:12 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 11 15:55:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	122099	20.00	ng	0.00
21) Naphthalene-d8	9.53	136	464806	20.00	ng	0.00
38) Acenaphthene-d10	12.37	164	150816	20.00	ng	0.00
63) Phenanthrene-d10	14.78	188	178793	20.00	ng	0.02
75) Chrysene-d12	18.49	240	177074	20.00	ng	0.02
86) Perylene-d12	20.14	264	166235	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	484341	63.05	ng	0.02
7) Phenol-d6	7.09	99	393051	41.25	ng	0.04
23) Nitrobenzene-d5	8.42	82	661214	89.20	ng	0.00
41) 2,4,6-Tribromophenol	13.69	330	131225	114.46	ng	0.03
44) 2-Fluorobiphenyl	11.32	172	950956	95.16	ng	0.00
78) Terphenyl-d14	17.14	244	473206	55.31	ng	0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	7.12	94	68112	6.53	ng	94
14) 1,2-Dichlorobenzene	7.76	146	20457	2.23	ng	91
17) 2-Methylphenol	8.05	107	81029	11.87	ng	95
20) 3+4-Methylphenols	8.30	107	528114	63.19	ng	# 58
24) Nitrobenzene	8.38	77	24225	3.00	ng	# 24
27) 2,4-Dimethylphenol	9.13	122	125002	18.35	ng	98
31) Naphthalene	9.57	128	60003	2.58	ng	# 81
32) Benzoic acid	9.44	122	42778	11.65	ng	# 28
35) Caprolactam	10.34	113	22450	11.60	ng	# 1
37) 2-Methylnaphthalene	10.70	142	435627	29.74	ng	97
49) Dimethylphthalate	12.03	163	33600	2.89	ng	# 1
50) 2,6-Dinitrotoluene	12.16	165	11765	4.90	ng	# 1
51) Acenaphthene	12.42	154	54783	5.79	ng	91
54) Dibenzofuran	12.71	168	55755	4.21	ng	# 70
55) 4-Nitrophenol	12.78	139	7983	6.67	ng	# 1
56) 2,4-Dinitrotoluene	12.80	165	7587	2.37	ng	# 1
57) Fluorene	13.26	166	83730	7.68	ng	# 96
59) Diethylphthalate	13.16	149	52178	4.75	ng	# 69
65) n-Nitrosodiphenylamine	13.49	169	28814	4.36	ng	# 58
70) Phenanthrene	14.82	178	112895	10.96	ng	# 90

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

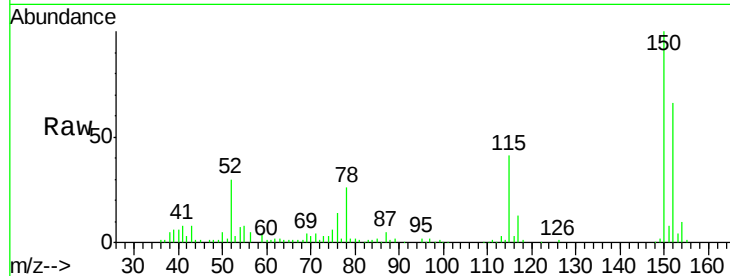


#1

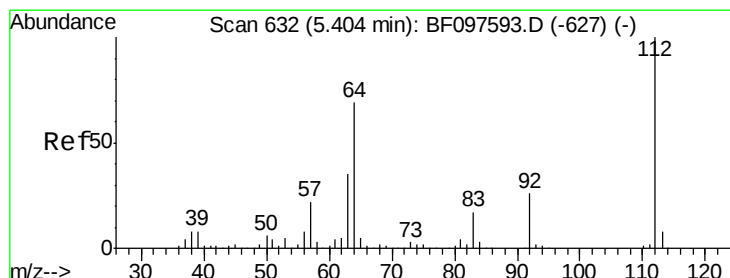
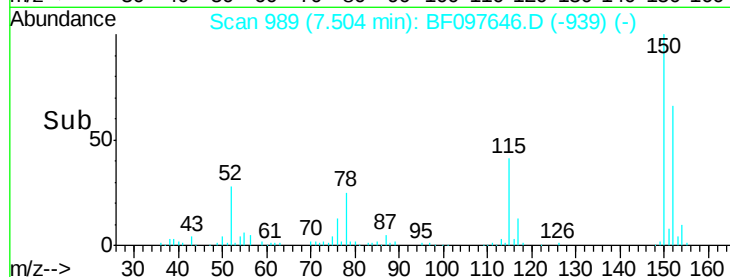
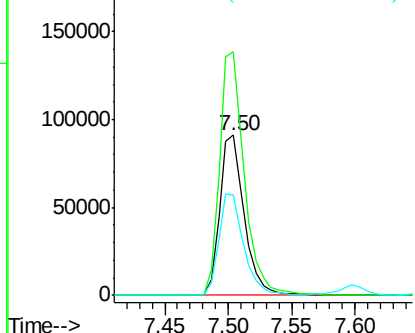
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.50 min Scan# 989
Delta R.T. -0.01 min
Lab File: BF097646.D
Acq: 12 Aug 2017 21:27

Instrument :
BNA_F
ClientSampleId :
VE-3-1

Tot Ion:152 Resp: 122099
Ion Ratio Lower Upper
152 100
150 152.1 126.2 189.2
115 62.6 52.2 78.2



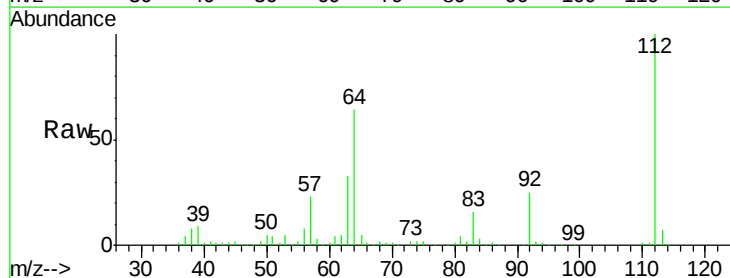
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



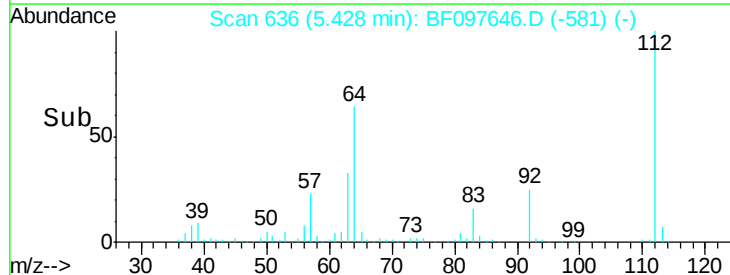
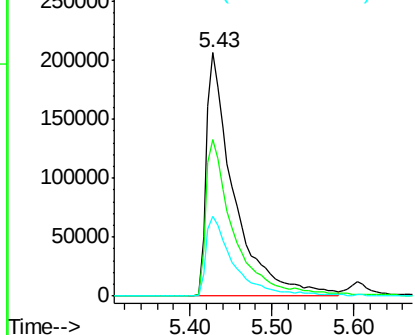
#5

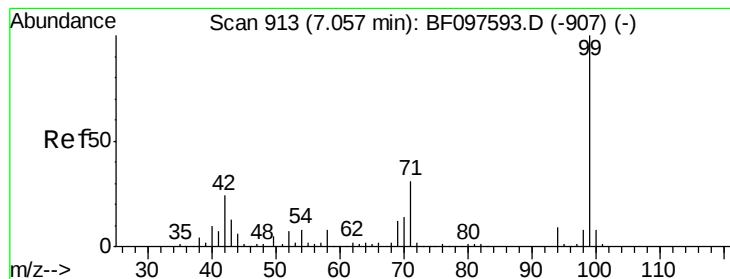
2-Fluorophenol
Concen: 63.05 ng
RT: 5.43 min Scan# 636
Delta R.T. 0.02 min
Lab File: BF097646.D
Acq: 12 Aug 2017 21:27

Tgt Ion:112 Resp: 484341
Ion Ratio Lower Upper
112 100
64 64.4 46.0 69.0
63 32.7 23.4 35.0



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





#7

Phenol-d6

Concen: 41.25 ng

RT: 7.09 min Scan# 919

Delta R.T. 0.04 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampled :

VE-3-1

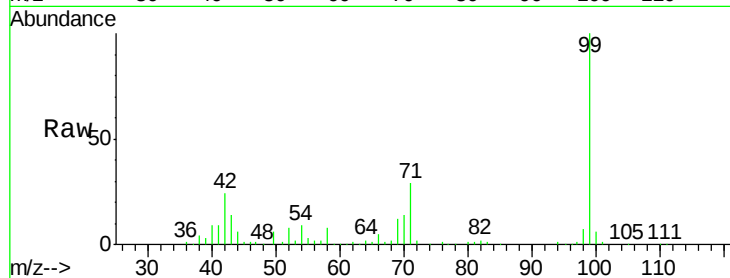
Tot Ion: 99 Resp: 393051

Ion Ratio Lower Upper

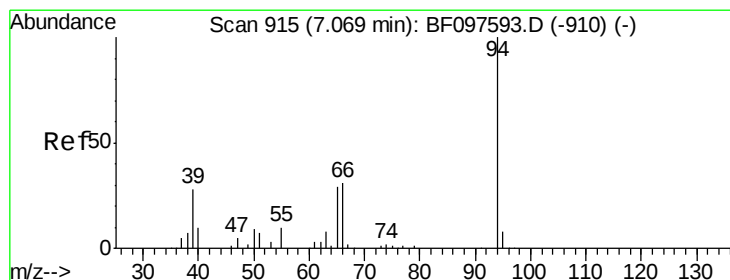
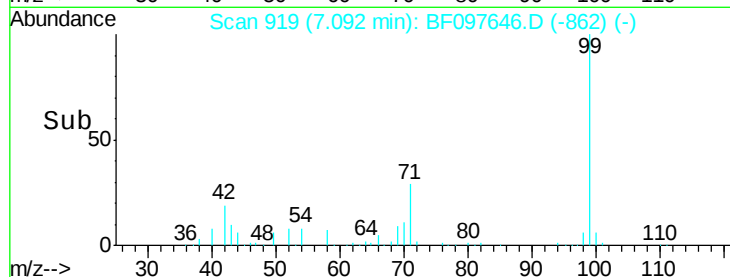
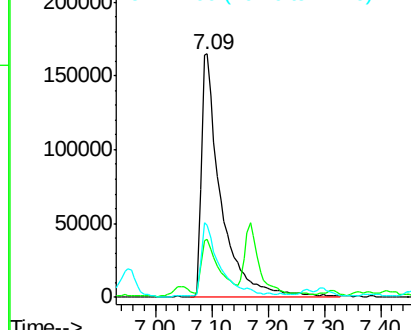
99 100

42 24.0 13.5 20.3#

71 29.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 6.53 ng

RT: 7.12 min Scan# 923

Delta R.T. 0.05 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

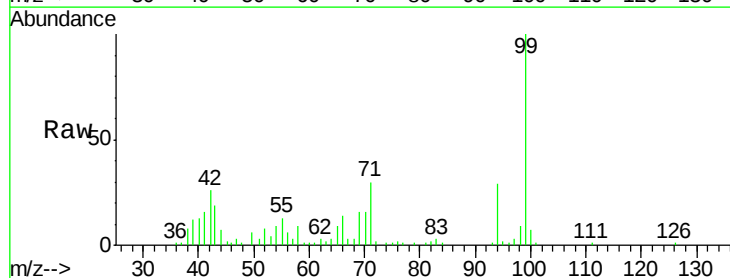
Tgt Ion: 94 Resp: 68112

Ion Ratio Lower Upper

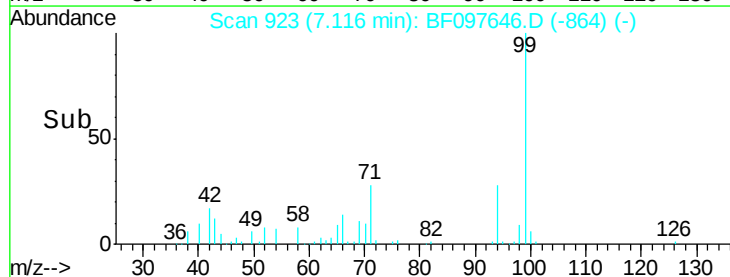
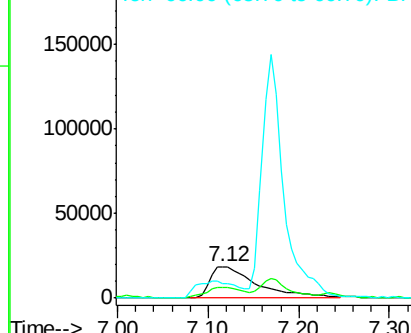
94 100

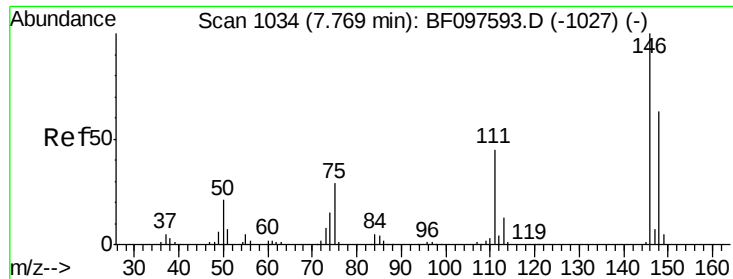
65 32.6 9.9 49.9

66 47.6 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





#14

1,2-Dichlorobenzene

Concen: 2.23 ng

RT: 7.76 min Scan# 1033

Delta R.T. -0.01 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampleId :

VE-3-1

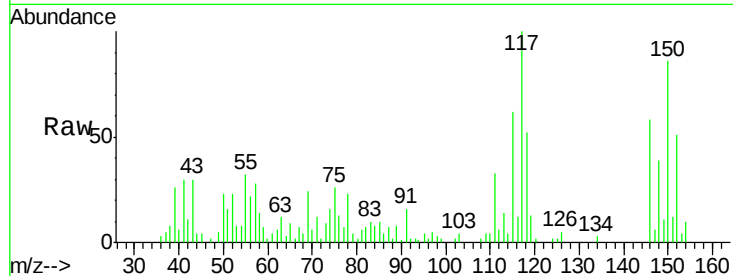
Tot Ion:146 Resp: 20457

Ion Ratio Lower Upper

146 100

148 67.5 50.4 75.6

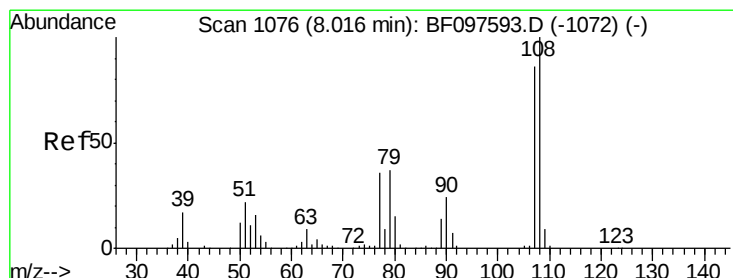
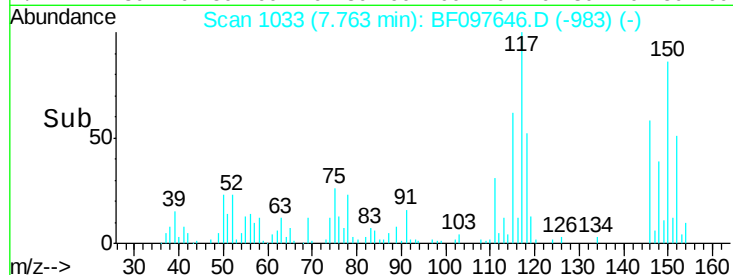
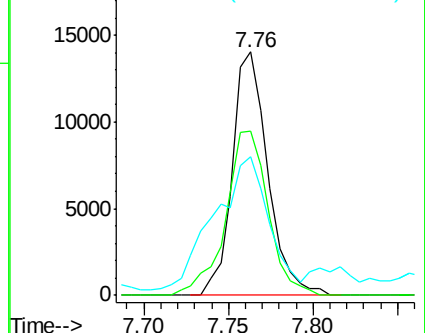
111 56.9 38.2 57.4



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



#17

2-Methylphenol

Concen: 11.87 ng

RT: 8.05 min Scan# 1082

Delta R.T. 0.04 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Tgt Ion:107 Resp: 81029

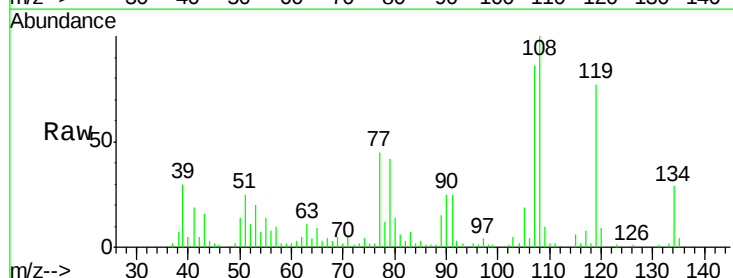
Ion Ratio Lower Upper

107 100

108 116.8 93.4 140.0

77 52.8 35.8 53.6

79 48.9 34.8 52.2

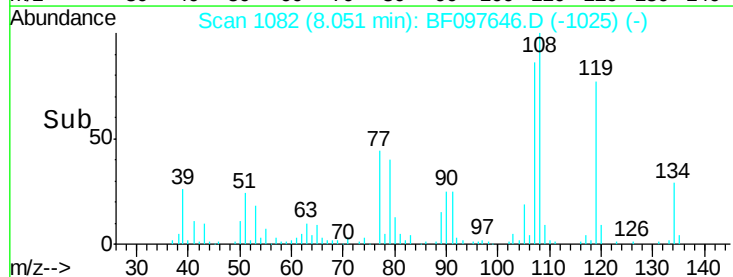
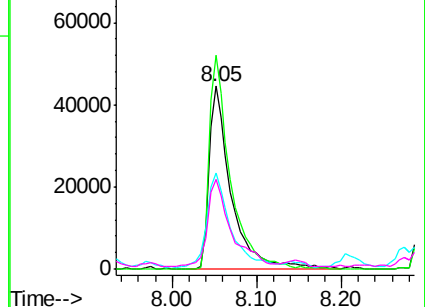


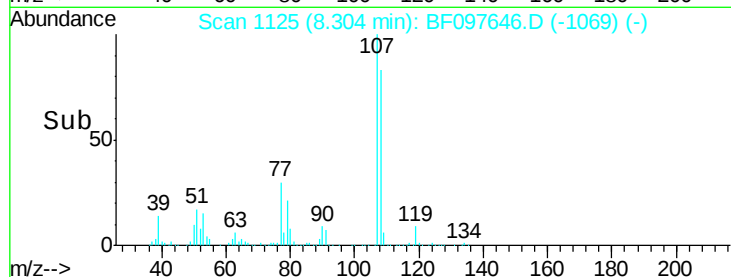
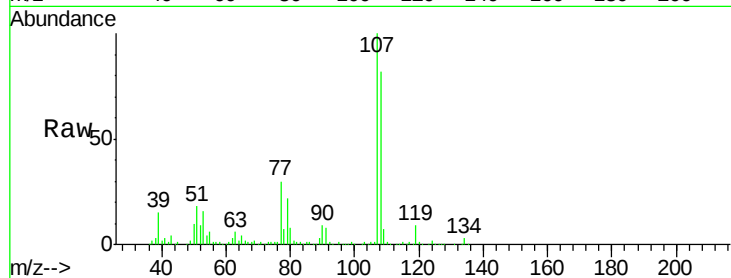
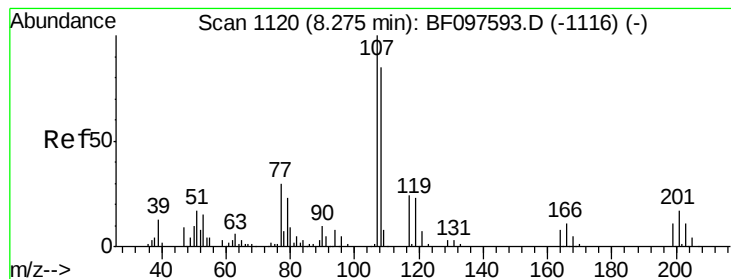
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0





#20

3+4-Methylphenols

Concen: 63.19 ng

RT: 8.30 min Scan# 1125

Delta R.T. 0.03 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

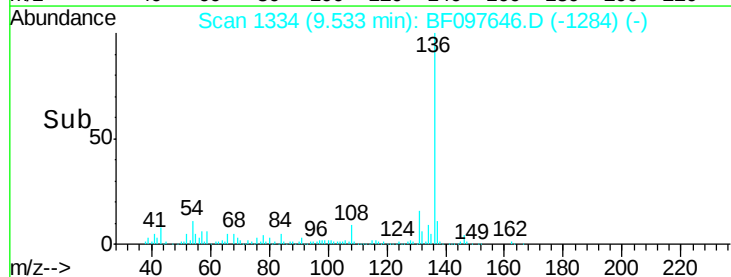
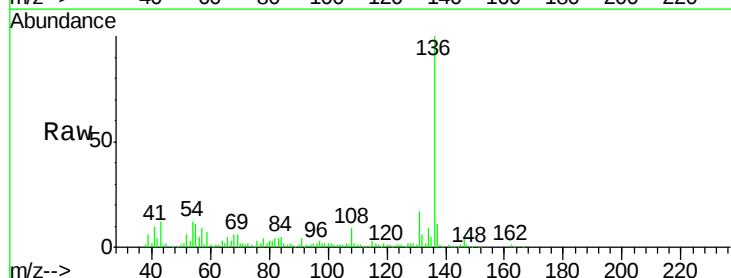
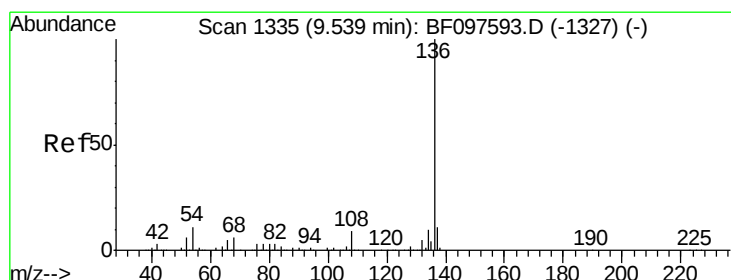
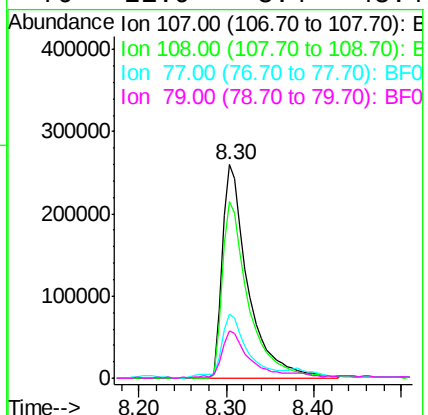
Instrument :

BNA_F

ClientSampleId :

VE-3-1

Tot Ion:	107	Resp:	528114
Ion Ratio	Lower	Upper	
107	100		
108	82.4	71.0	111.0
77	30.1	90.5	130.5#
79	21.9	8.4	48.4



#21

Naphthalene-d8

Concen: 20.00 ng

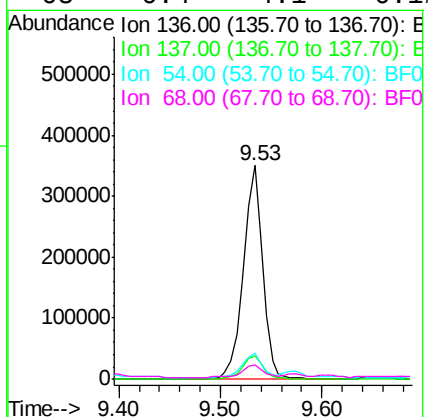
RT: 9.53 min Scan# 1334

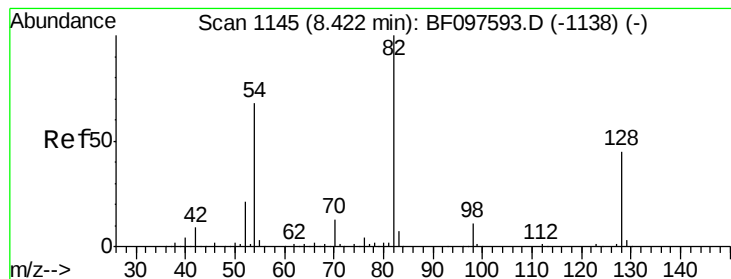
Delta R.T. -0.01 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Tgt Ion:	136	Resp:	464806
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.5	12.7
54	11.9	4.9	7.3#
68	6.4	4.1	6.1#





#23

Nitrobenzene-d5

Concen: 89.20 ng

RT: 8.42 min Scan# 1145

Delta R.T. 0.00 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampleId :

VE-3-1

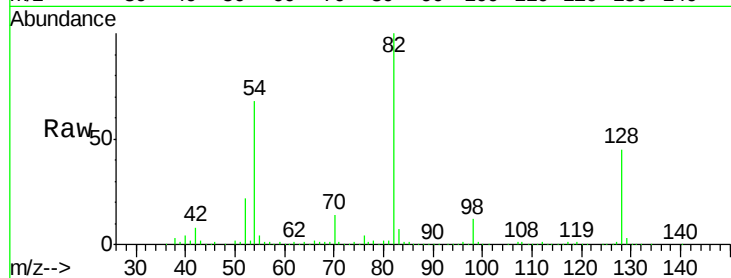
Tot Ion: 82 Resp: 661214

Ion Ratio Lower Upper

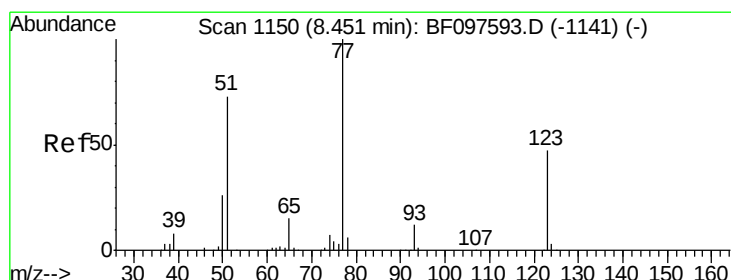
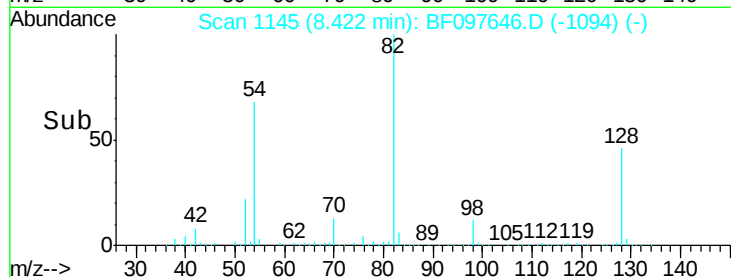
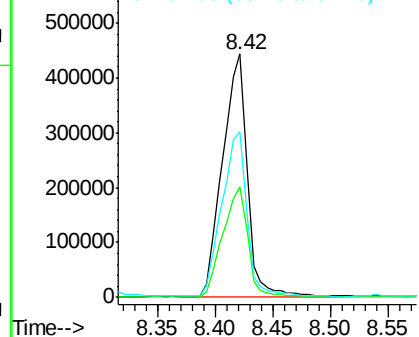
82 100

128 45.5 34.0 51.0

54 68.0 42.2 63.2#



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



#24

Nitrobenzene

Concen: 3.00 ng

RT: 8.38 min Scan# 1138

Delta R.T. -0.07 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

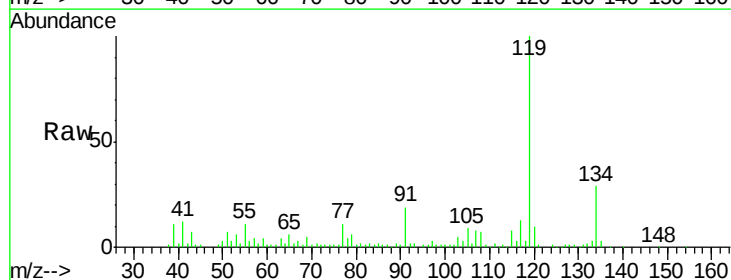
Tgt Ion: 77 Resp: 24225

Ion Ratio Lower Upper

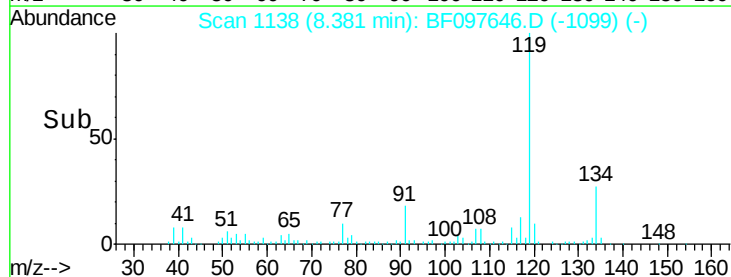
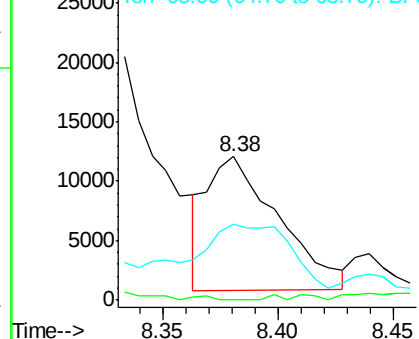
77 100

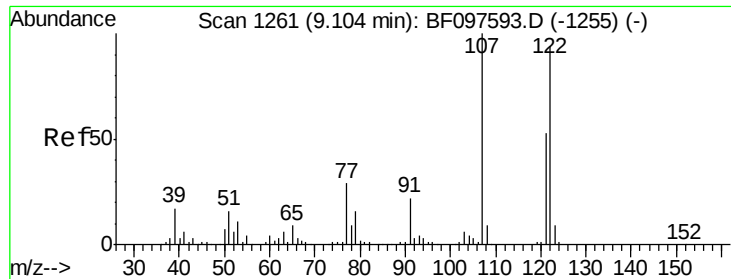
123 0.0 35.8 53.8#

65 53.2 10.6 15.8#



Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 123.00 (122.70 to 123.70): B
Ion 65.00 (64.70 to 65.70): BF0

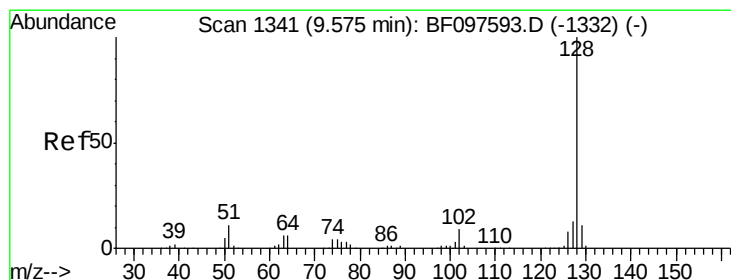
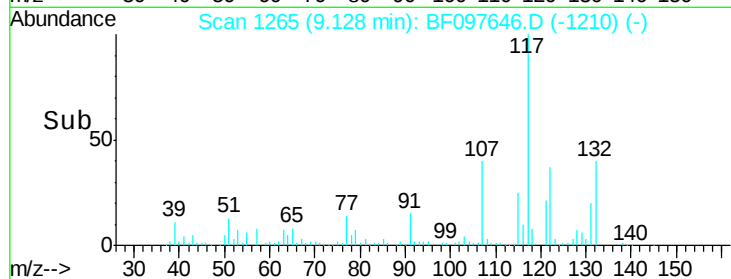
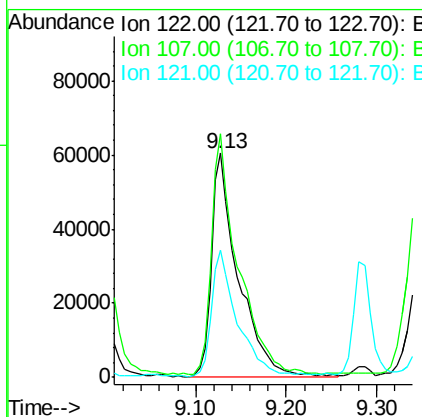
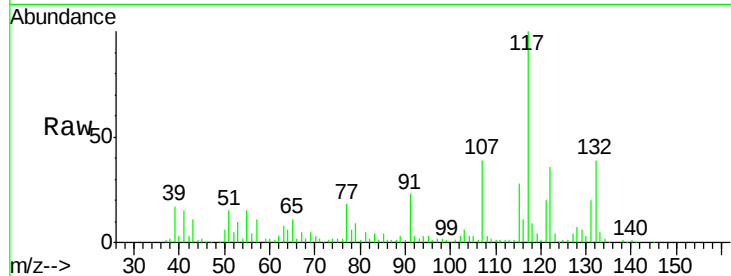




#27
2,4-Dimethylphenol
Concen: 18.35 ng
RT: 9.13 min Scan# 1265
Delta R.T. 0.02 min
Lab File: BF097646.D
Acq: 12 Aug 2017 21:27

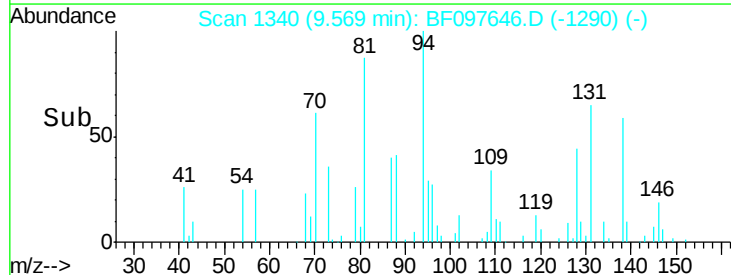
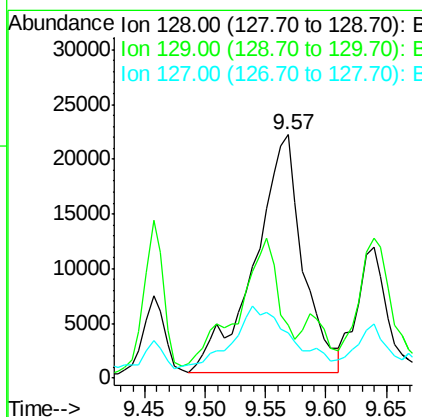
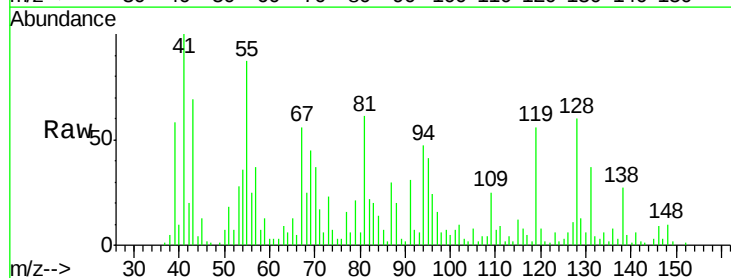
Instrument :
BNA_F
ClientSampled :
VE-3-1

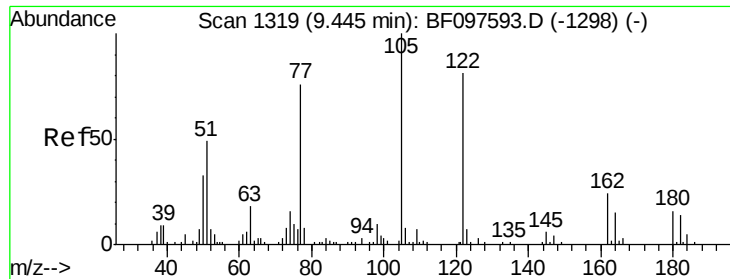
Tot Ion:122 Resp: 125002
Ion Ratio Lower Upper
122 100
107 108.5 89.2 133.8
121 56.5 45.2 67.8



#31
Naphthalene
Concen: 2.58 ng
RT: 9.57 min Scan# 1340
Delta R.T. -0.01 min
Lab File: BF097646.D
Acq: 12 Aug 2017 21:27

Tgt Ion:128 Resp: 60003
Ion Ratio Lower Upper
128 100
129 21.7 9.0 13.6#
127 18.5 10.8 16.2#





#32

Benzoic acid

Concen: 11.65 ng

RT: 9.44 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampled :

VE-3-1

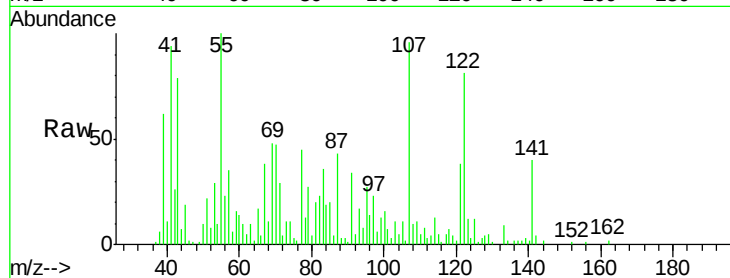
Tot Ion:122 Resp: 42778

Ion Ratio Lower Upper

122 100

105 13.4 103.3 143.3#

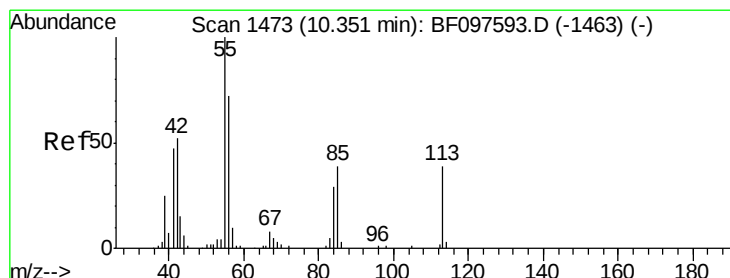
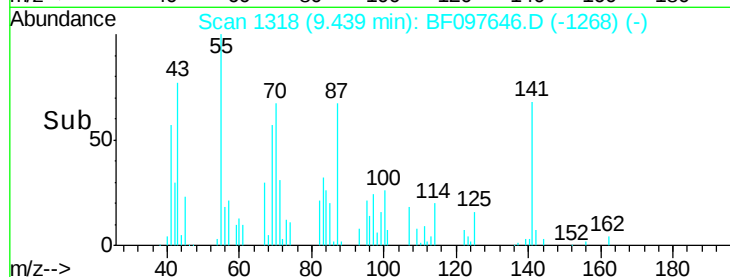
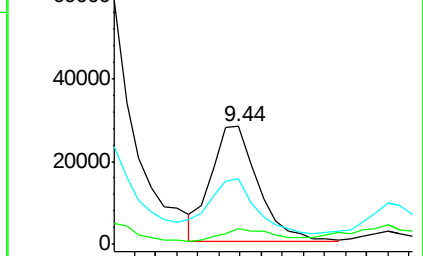
77 55.5 73.7 113.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#35

Caprolactam

Concen: 11.60 ng

RT: 10.34 min Scan# 1471

Delta R.T. -0.01 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

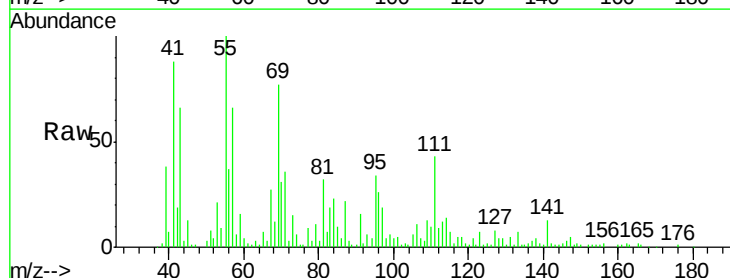
Tgt Ion:113 Resp: 22450

Ion Ratio Lower Upper

113 100

55 807.4 150.2 190.2#

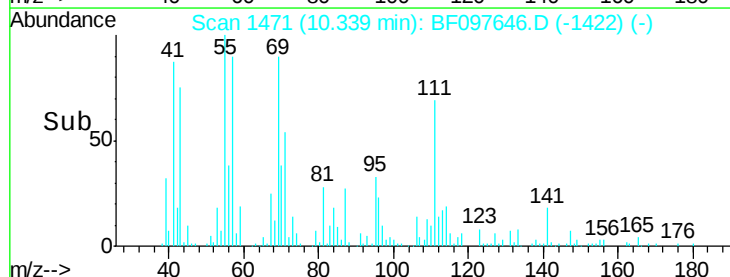
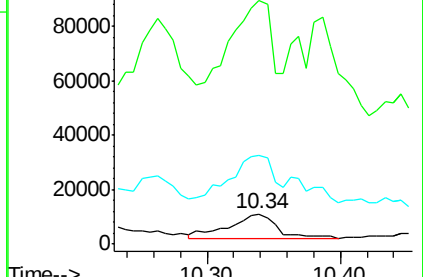
56 295.5 107.8 147.8#

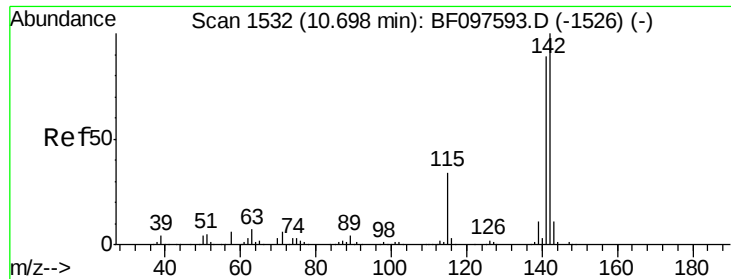


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0

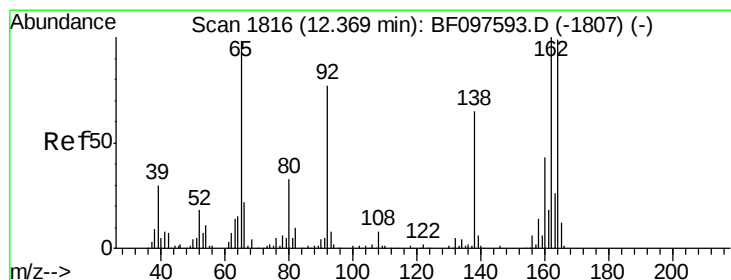
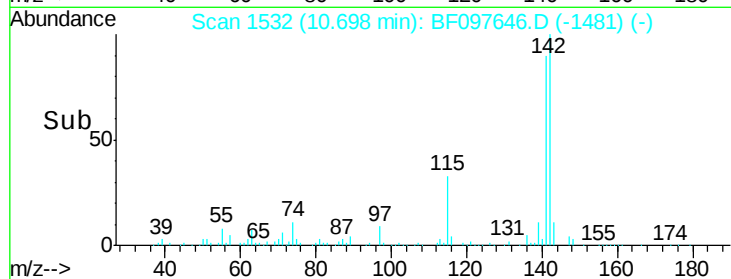
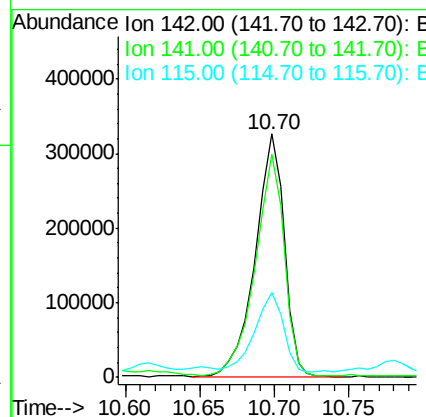
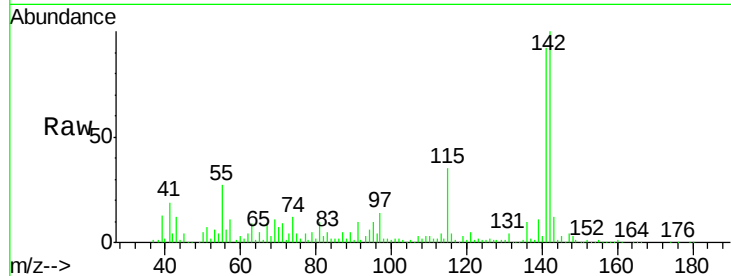




#37
 2-Methylnaphthalene
 Concen: 29.74 ng
 RT: 10.70 min Scan# 1532
 Delta R.T. 0.00 min
 Lab File: BF097646.D
 Acq: 12 Aug 2017 21:27

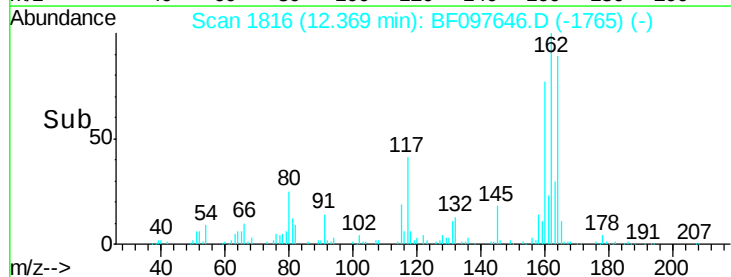
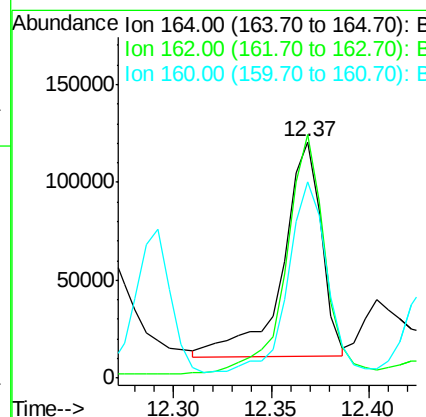
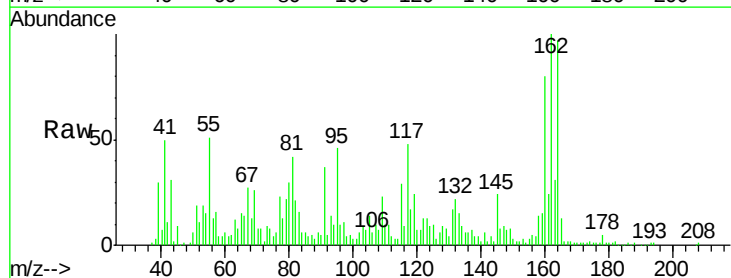
Instrument :
 BNA_F
 ClientSampled :
 VE-3-1

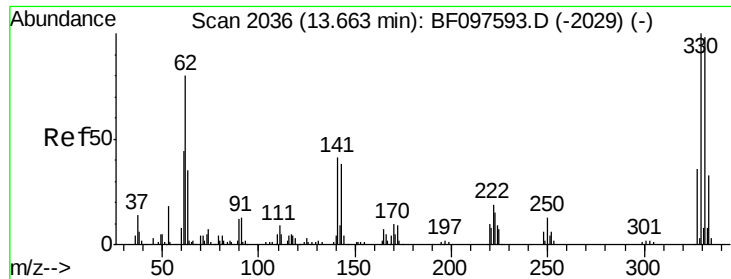
Tot Ion	Ratio	Lower	Upper
142	100		
141	91.6	71.3	106.9
115	35.1	27.1	40.7



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.37 min Scan# 1816
 Delta R.T. 0.00 min
 Lab File: BF097646.D
 Acq: 12 Aug 2017 21:27

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.6	123.8
160	82.9	36.2	54.2#

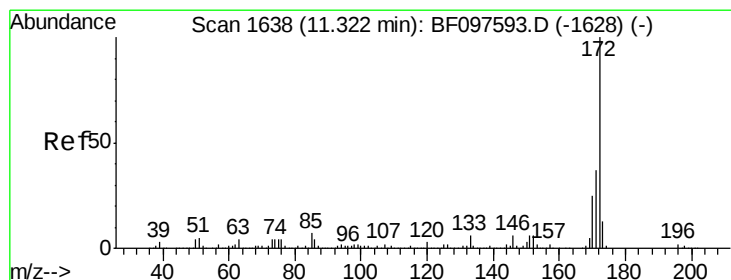
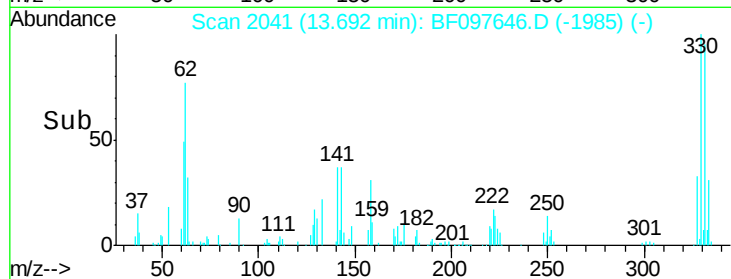
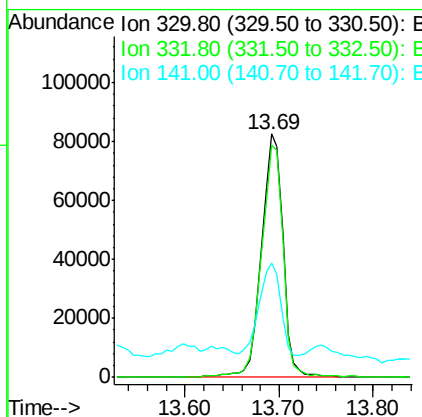
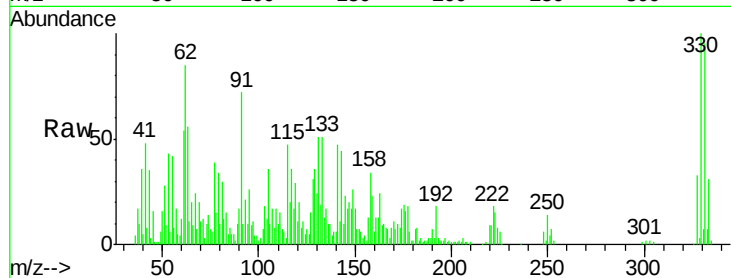




#41
 2,4,6-Tribromophenol
 Concen: 114.46 ng
 RT: 13.69 min Scan# 2041
 Delta R.T. 0.03 min
 Lab File: BF097646.D
 Acq: 12 Aug 2017 21:27

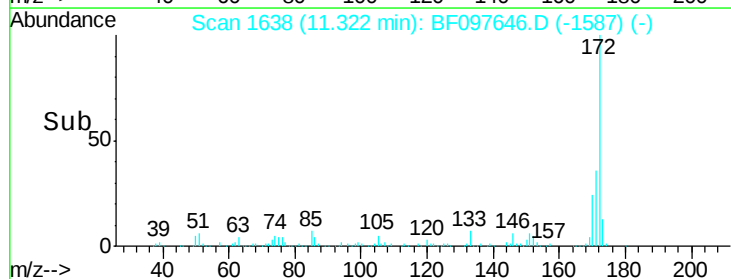
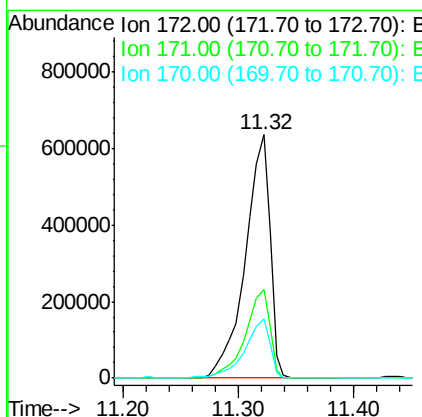
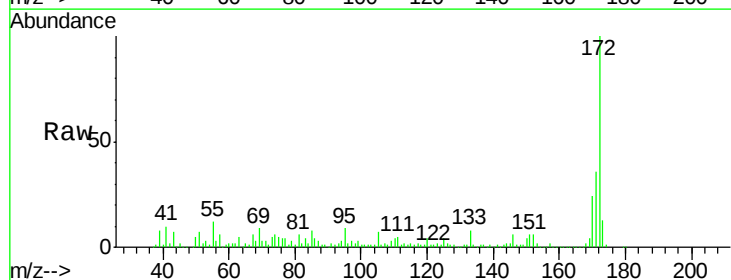
Instrument :
 BNA_F
 ClientSampled :
 VE-3-1

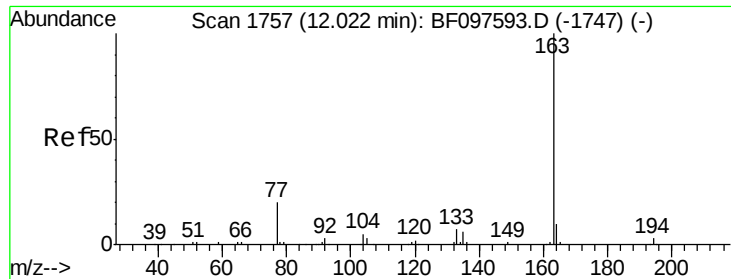
Tot Ion:330 Resp: 131225
 Ion Ratio Lower Upper
 330 100
 332 96.2 76.6 115.0
 141 39.8 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 95.16 ng
 RT: 11.32 min Scan# 1638
 Delta R.T. 0.00 min
 Lab File: BF097646.D
 Acq: 12 Aug 2017 21:27

Tgt Ion:172 Resp: 950956
 Ion Ratio Lower Upper
 172 100
 171 36.3 29.6 44.4
 170 24.4 19.8 29.8





#49

Dimethylphthalate

Concen: 2.89 ng

RT: 12.03 min Scan# 1758

Delta R.T. 0.01 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampleId :

VE-3-1

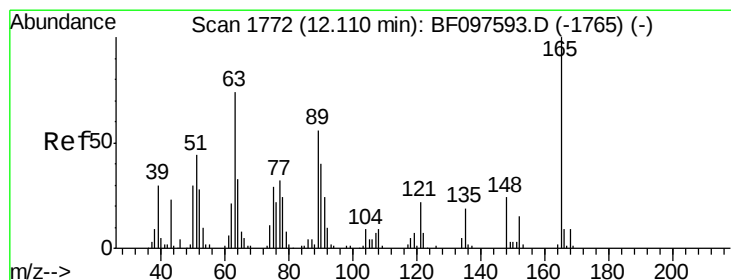
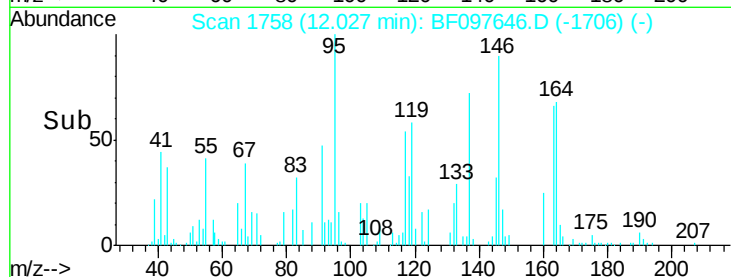
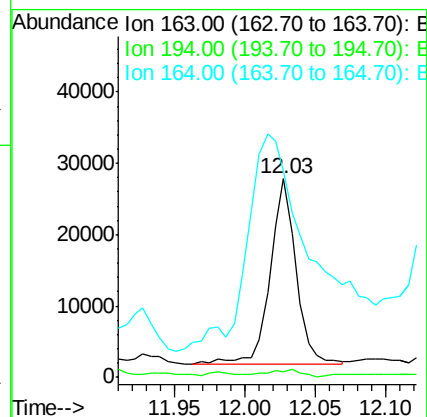
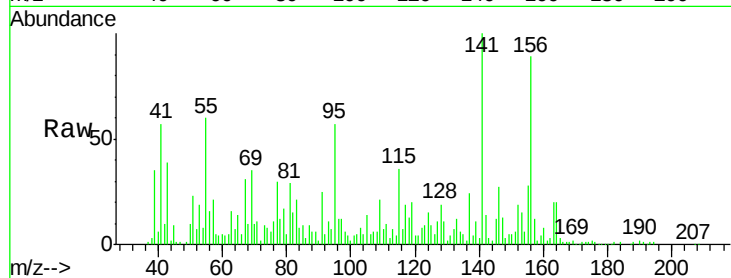
Tot Ion:163 Resp: 33600

Ion Ratio Lower Upper

163 100

194 2.8 2.6 4.0

164 103.6 8.4 12.6#



#50

2,6-Dinitrotoluene

Concen: 4.90 ng

RT: 12.16 min Scan# 1780

Delta R.T. 0.05 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

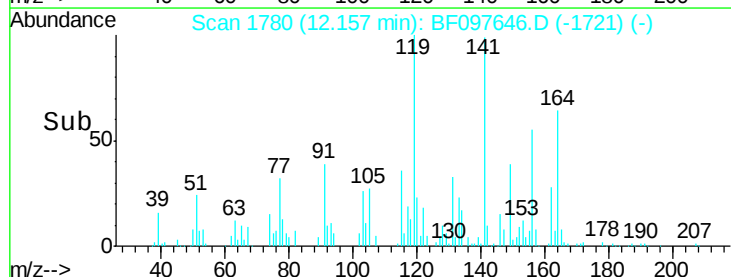
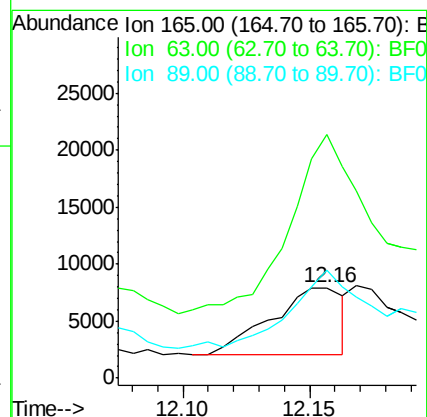
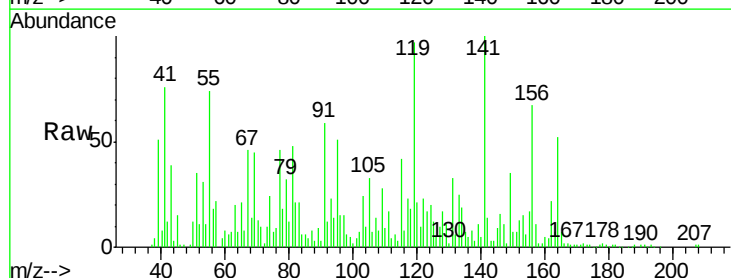
Tgt Ion:165 Resp: 11765

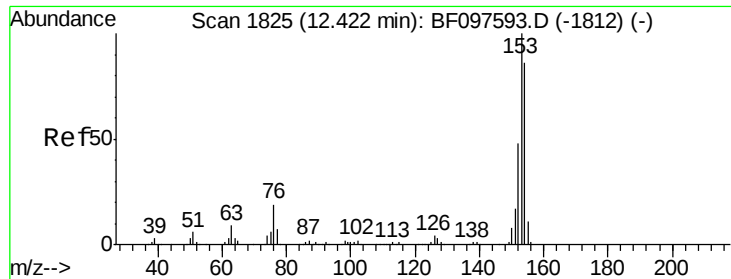
Ion Ratio Lower Upper

165 100

63 268.9 34.3 51.5#

89 118.5 37.1 55.7#





#51

Acenaphthene

Concen: 5.79 ng

RT: 12.42 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampled :

VE-3-1

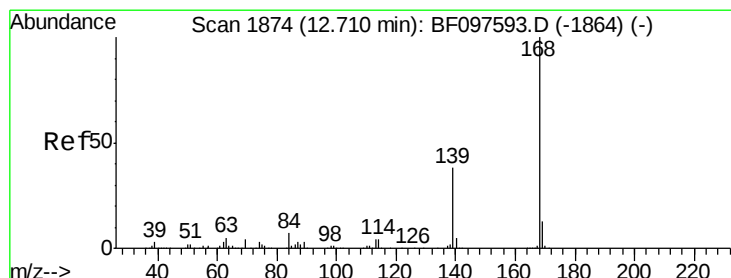
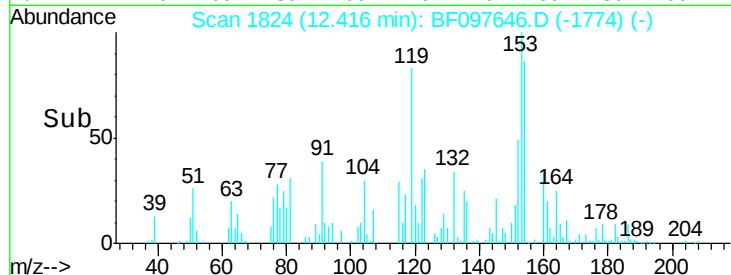
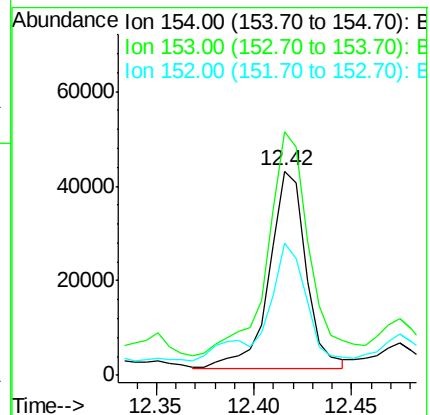
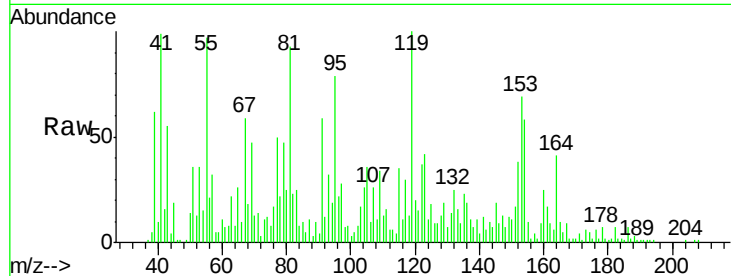
Tot Ion:154 Resp: 54783

Ion Ratio Lower Upper

154 100

153 119.3 90.5 135.7

152 64.9 43.6 65.4



#54

Dibenzofuran

Concen: 4.21 ng

RT: 12.71 min Scan# 1874

Delta R.T. 0.00 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

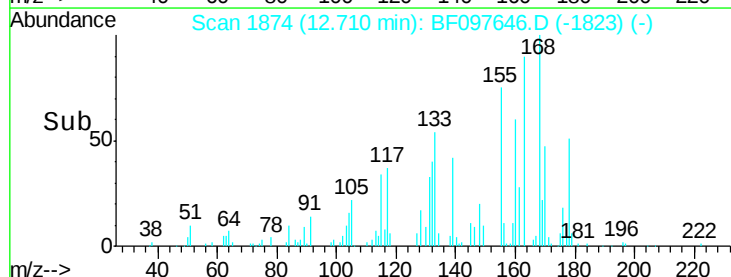
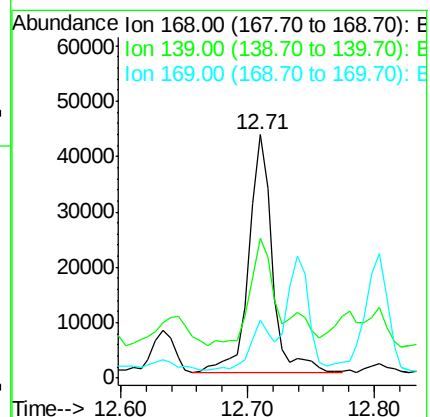
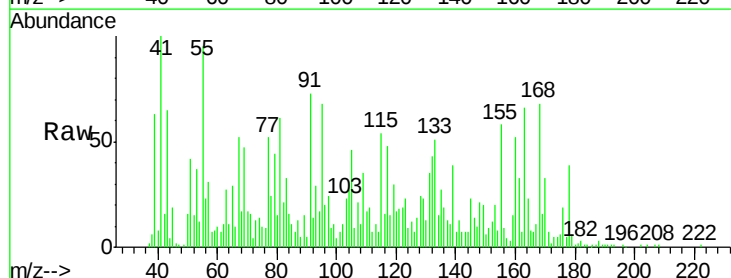
Tgt Ion:168 Resp: 55755

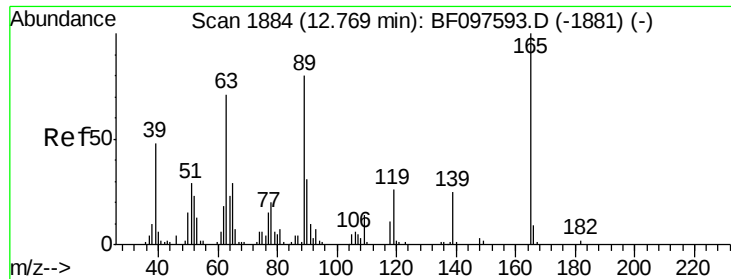
Ion Ratio Lower Upper

168 100

139 57.6 30.6 45.8#

169 23.7 10.8 16.2#

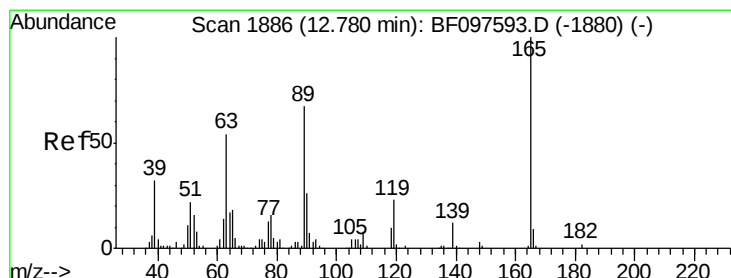
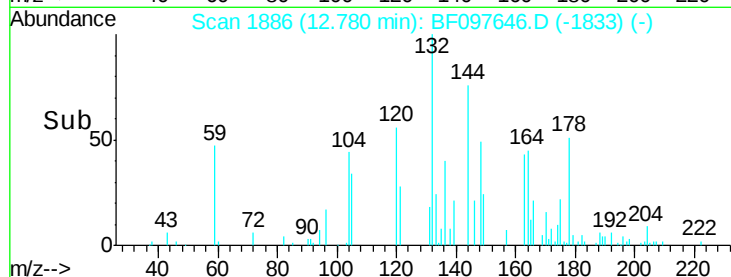
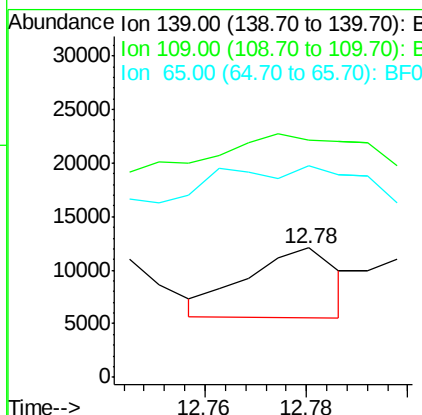
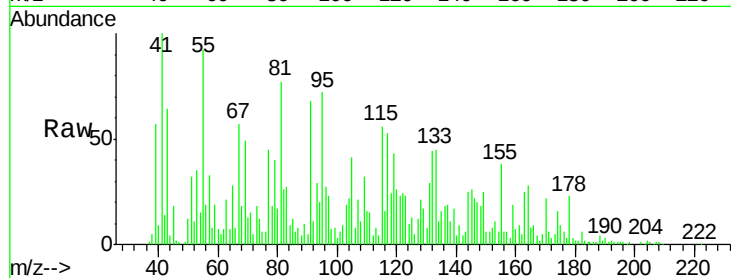




#55
4-Nitrophenol
Concen: 6.67 ng
RT: 12.78 min Scan# 1886
Delta R.T. 0.01 min
Lab File: BF097646.D
Acq: 12 Aug 2017 21:27

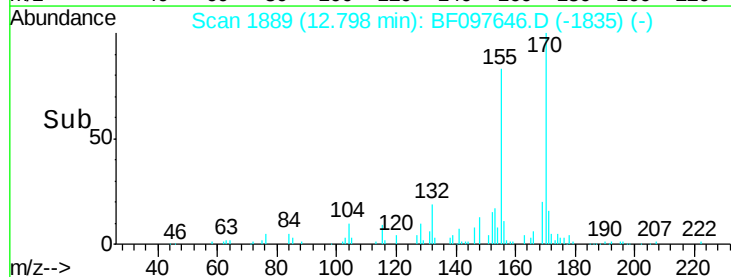
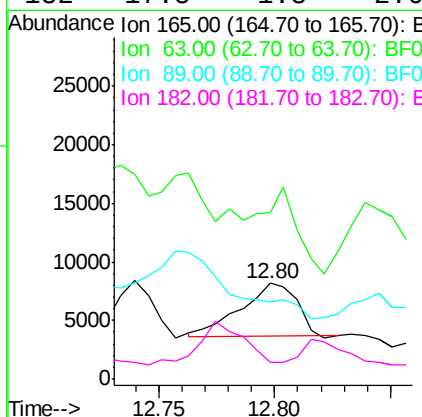
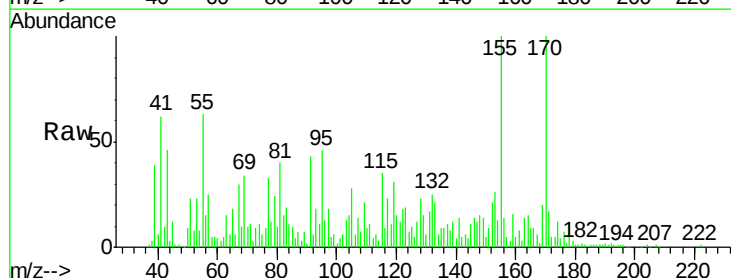
Instrument :
BNA_F
ClientSampleId :
VE-3-1

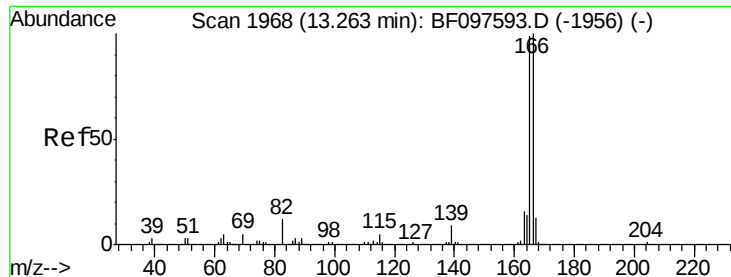
Tot Ion:139 Resp: 7983
Ion Ratio Lower Upper
139 100
109 183.6 34.1 74.1#
65 164.2 31.4 71.4#



#56
2,4-Dinitrotoluene
Concen: 2.37 ng
RT: 12.80 min Scan# 1889
Delta R.T. 0.02 min
Lab File: BF097646.D
Acq: 12 Aug 2017 21:27

Tgt Ion:165 Resp: 7587
Ion Ratio Lower Upper
165 100
63 174.4 25.4 38.0#
89 80.9 46.4 69.6#
182 17.5 1.8 2.6#





#57

Fluorene

Concen: 7.68 ng

RT: 13.26 min Scan# 1968

Delta R.T. 0.00 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampleId :

VE-3-1

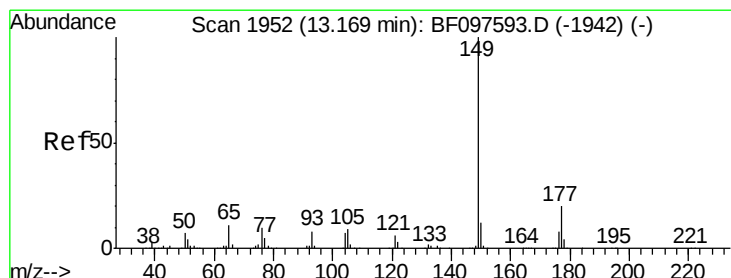
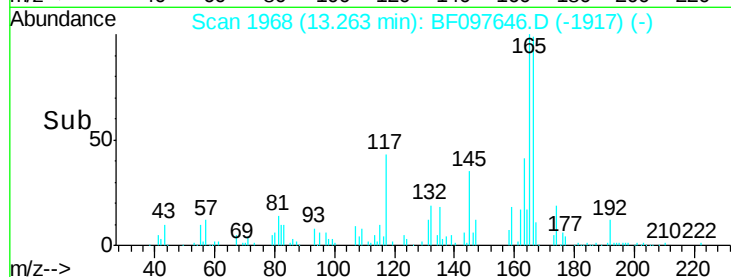
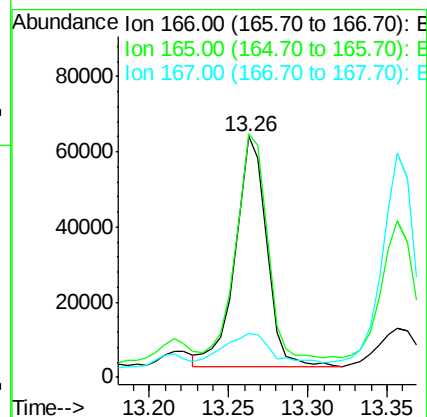
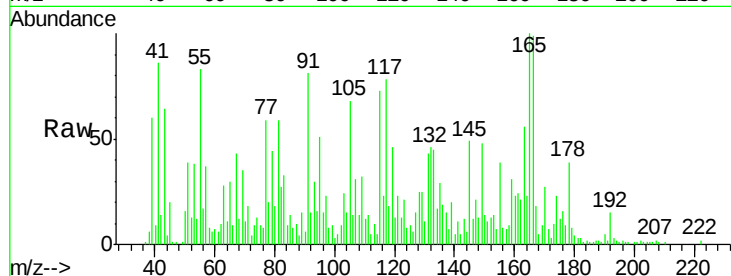
Tot Ion:166 Resp: 83730

Ion Ratio Lower Upper

166 100

165 101.1 78.8 118.2

167 18.0 10.6 16.0#



#59

Diethylphthalate

Concen: 4.75 ng

RT: 13.16 min Scan# 1950

Delta R.T. -0.01 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

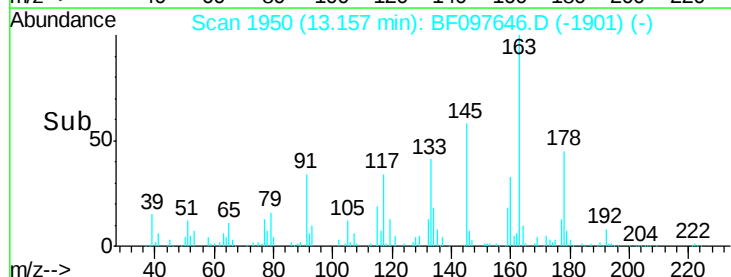
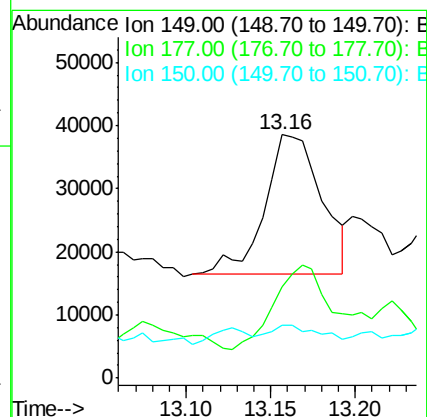
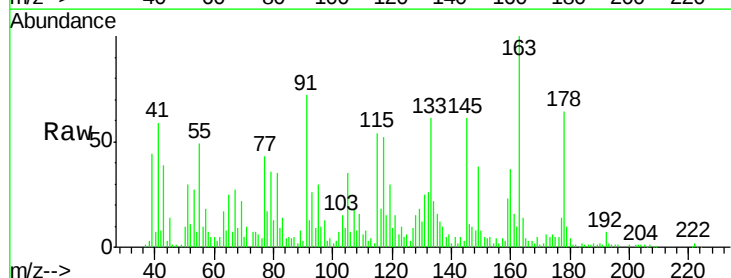
Tgt Ion:149 Resp: 52178

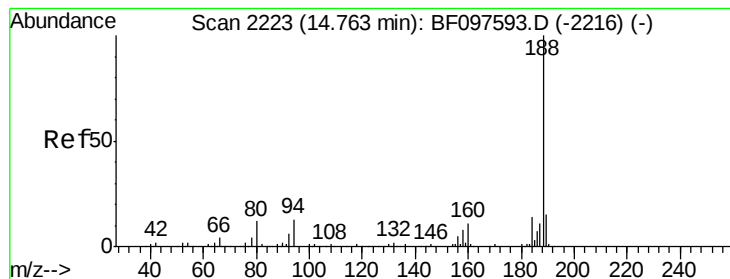
Ion Ratio Lower Upper

149 100

177 37.4 16.7 25.1#

150 21.7 10.2 15.2#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.78 min Scan# 2226

Delta R.T. 0.02 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampleId :

VE-3-1

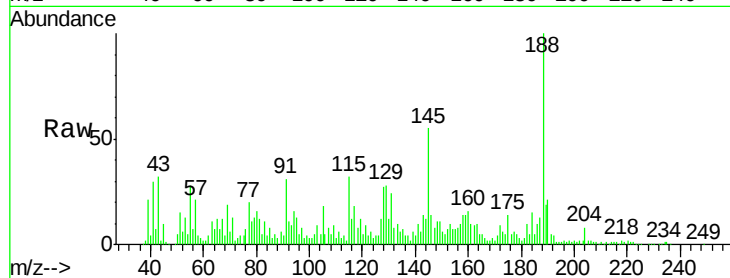
Tot Ion:188 Resp: 178793

Ion Ratio Lower Upper

188 100

94 16.4 9.4 14.2#

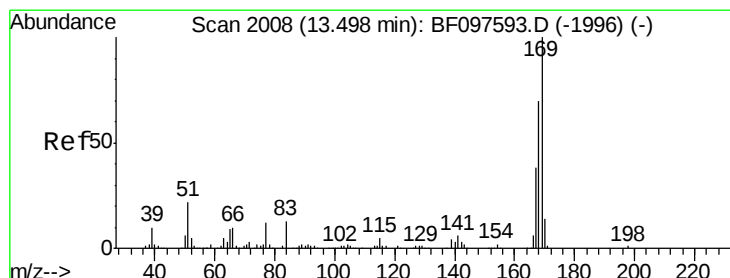
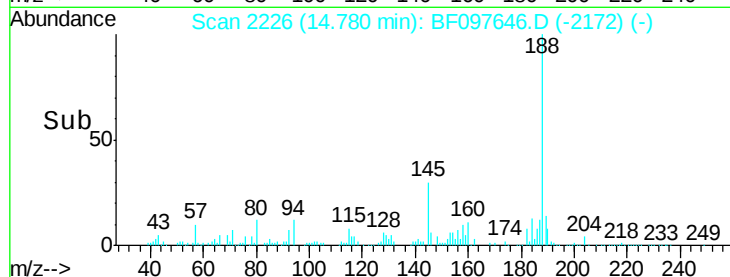
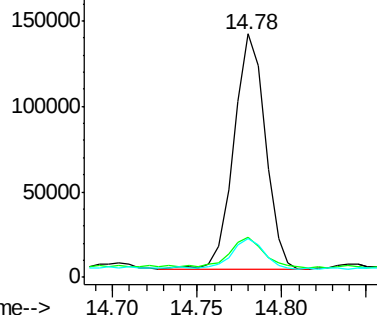
80 15.8 10.2 15.2#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#65

n-Nitrosodiphenylamine

Concen: 4.36 ng

RT: 13.49 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

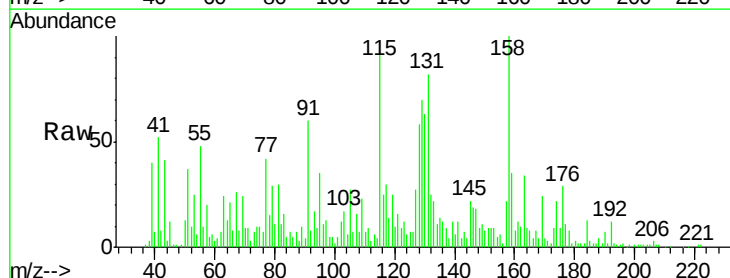
Tgt Ion:169 Resp: 28814

Ion Ratio Lower Upper

169 100

168 17.3 53.2 79.8#

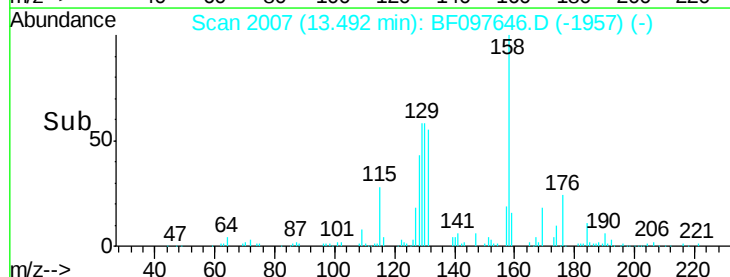
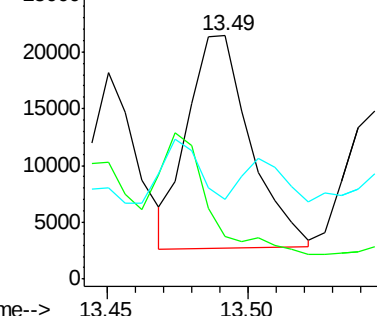
167 32.8 29.5 44.3

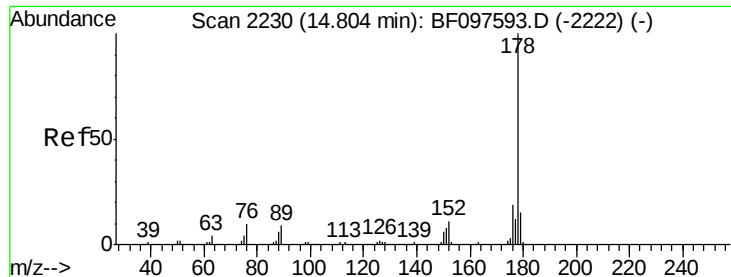


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 10.96 ng

RT: 14.82 min Scan# 2233

Delta R.T. 0.02 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampleId :

VE-3-1

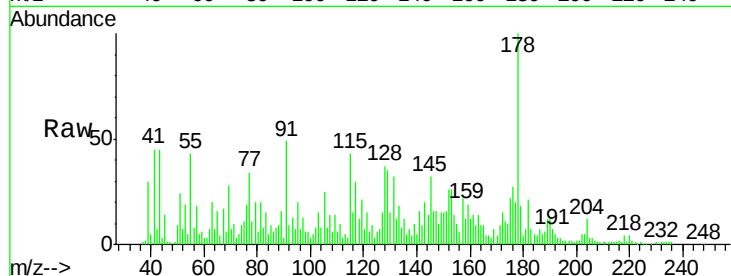
Tot Ion:178 Resp: 112895

Ion Ratio Lower Upper

178 100

176 26.6 16.2 24.4#

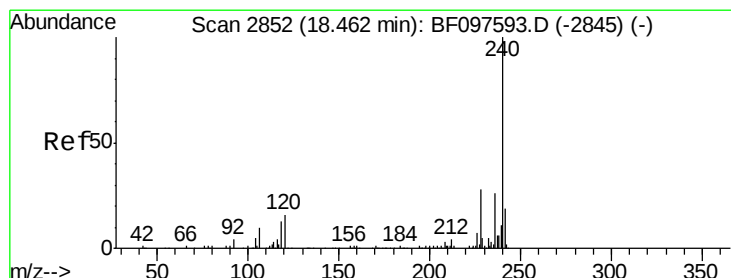
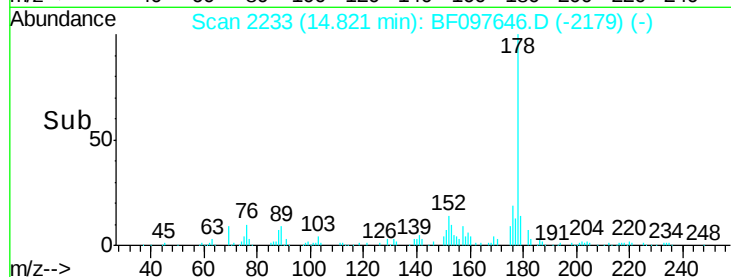
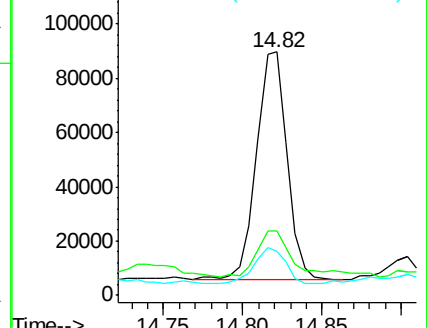
179 18.0 12.6 19.0



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.49 min Scan# 2856

Delta R.T. 0.02 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

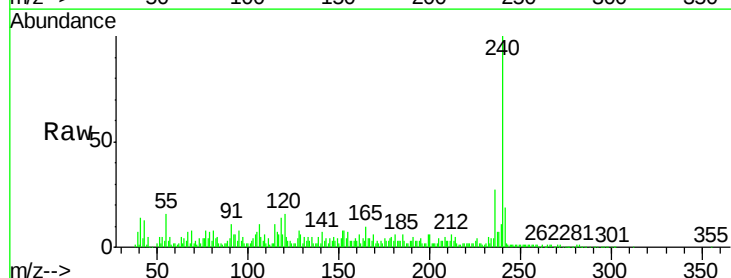
Tgt Ion:240 Resp: 177074

Ion Ratio Lower Upper

240 100

120 16.5 5.8 8.8#

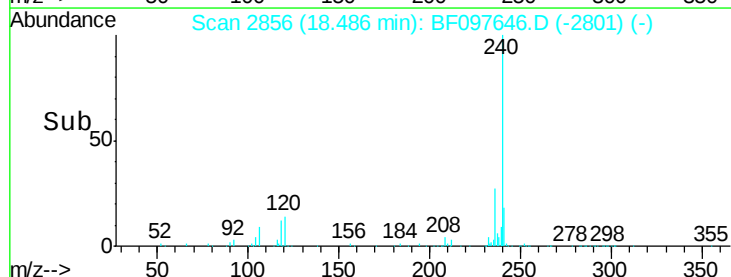
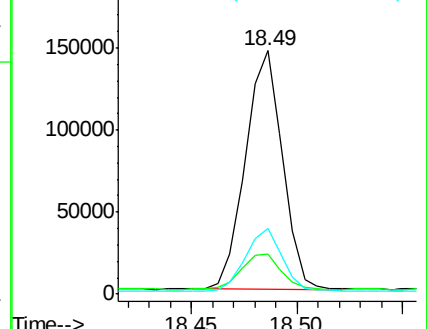
236 27.1 20.5 30.7

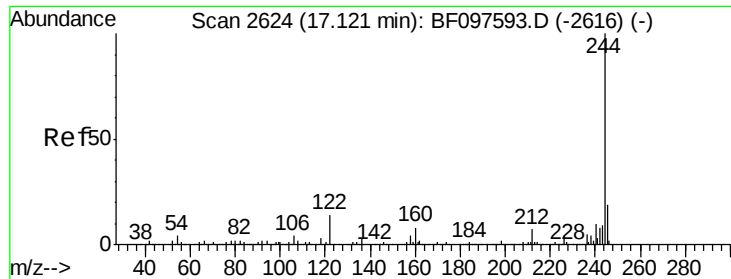


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 55.31 ng

RT: 17.14 min Scan# 2627

Delta R.T. 0.02 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

Instrument :

BNA_F

ClientSampleId :

VE-3-1

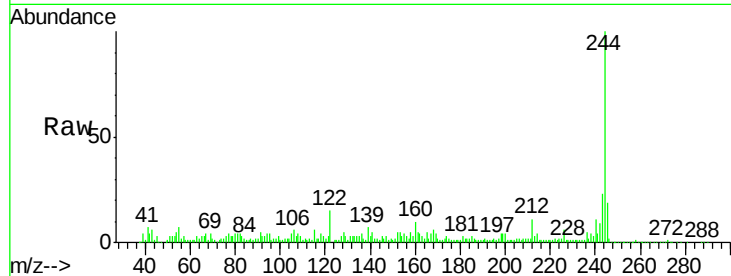
Tot Ion:244 Resp: 473206

Ion Ratio Lower Upper

244 100

212 10.6 6.0 9.0#

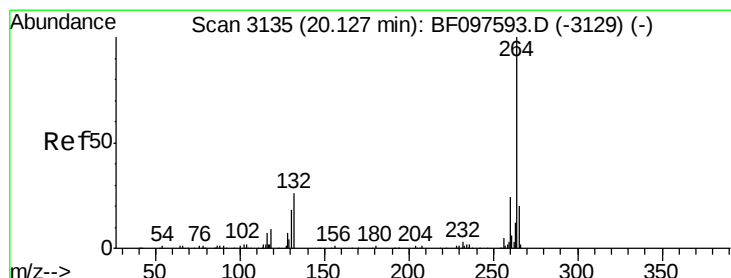
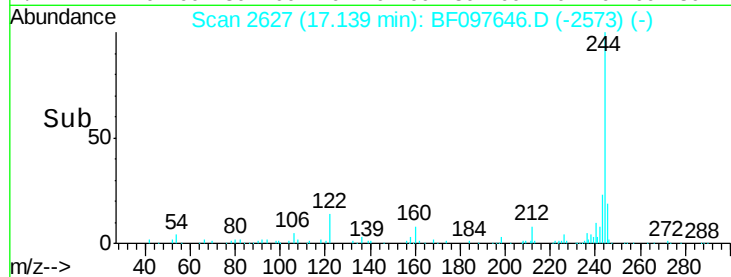
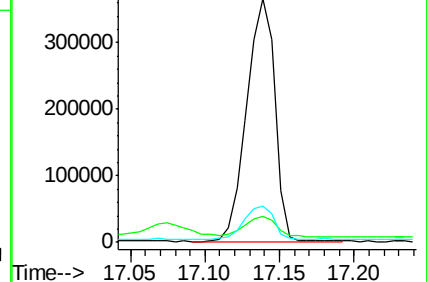
122 15.1 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.14 min Scan# 3138

Delta R.T. 0.02 min

Lab File: BF097646.D

Acq: 12 Aug 2017 21:27

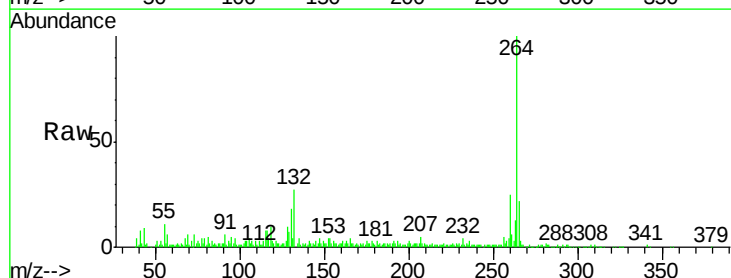
Tgt Ion:264 Resp: 166235

Ion Ratio Lower Upper

264 100

260 25.3 19.5 29.3

265 21.7 17.2 25.8



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

