

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100417\
 Data File : BF099068.D
 Acq On : 4 Oct 2017 15:52
 Operator : SJ/JU
 Sample : I5610-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 05 01:07:21 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

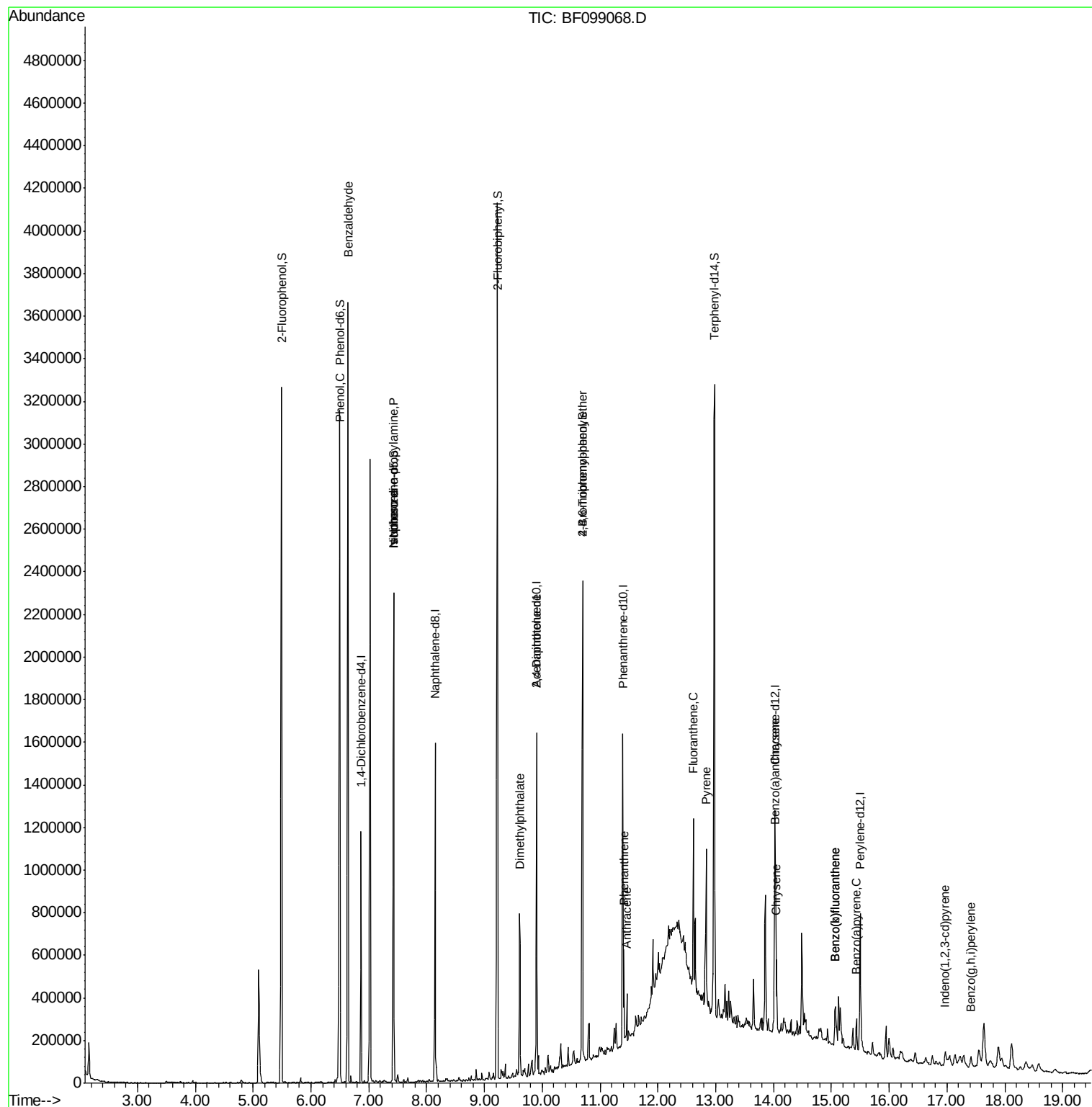
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	166798	20.00	ng	-0.06
21) Naphthalene-d8	8.15	136	703185	20.00	ng	-0.06
38) Acenaphthene-d10	9.90	164	325482	20.00	ng	-0.06
63) Phenanthrene-d10	11.39	188	534952	20.00	ng	-0.05
75) Chrysene-d12	14.03	240	300433	20.00	ng	-0.06
86) Perylene-d12	15.50	264	265224	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	1209522	115.44	ng	-0.05
7) Phenol-d6	6.50	99	1580908	122.31	ng	-0.05
23) Nitrobenzene-d5	7.43	82	940428	85.77	ng	-0.05
41) 2,4,6-Tribromophenol	10.70	330	331039	124.30	ng	-0.05
44) 2-Fluorobiphenyl	9.22	172	1553035	79.66	ng	-0.06
78) Terphenyl-d14	12.98	244	1088332	82.38	ng	-0.05
Target Compounds						Qvalue
9) Benzaldehyde	6.64	77	25128	3.35	ng	84
10) Phenol	6.51	94	39694	2.75	ng	97
19) n-Nitroso-di-n-propylamine	7.43	70	122926	14.90	ng	# 73
25) Isophorone	7.43	82	931978	41.11	ng	# 64
49) Dimethylphthalate	9.61	163	292448	11.90	ng	99
56) 2,4-Dinitrotoluene	9.90	165	44242	6.37	ng	# 23
66) 4-Bromophenyl-phenylether	10.70	248	22128	4.23	ng	# 1
70) Phenanthrene	11.41	178	146331	5.11	ng	98
71) Anthracene	11.46	178	78330	2.67	ng	98
74) Fluoranthene	12.62	202	315803	10.89	ng	99
77) Pyrene	12.83	202	276789	12.08	ng	100
80) Benzo(a)anthracene	14.02	228	124711	6.86	ng	98
82) Chrysene	14.05	228	120461	6.96	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	36952	2.67	ng	97
87) Benzo(b)fluoranthene	15.07	252	126748	7.77	ng	# 93
88) Benzo(k)fluoranthene	15.07	252	126748	7.87	ng	# 96
89) Benzo(a)pyrene	15.43	252	64170	4.29	ng	# 92
91) Benzo(g,h,i)perylene	17.42	276	35859	3.03	ng	93

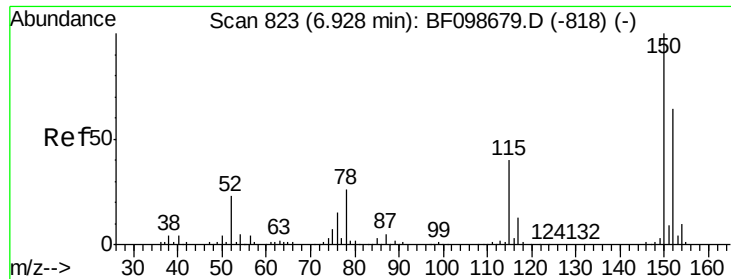
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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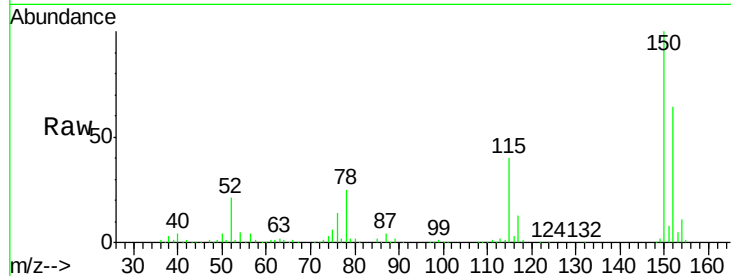


#1

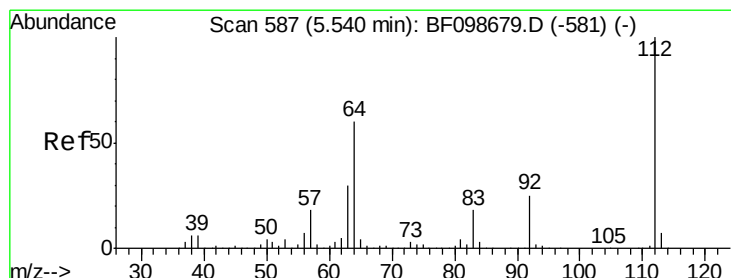
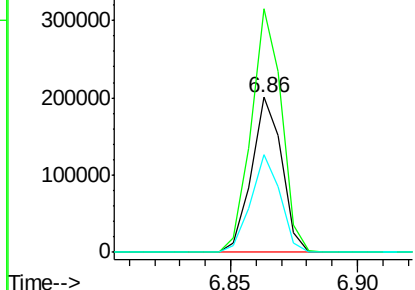
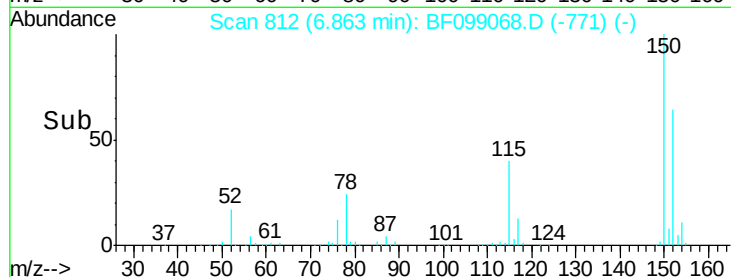
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.06 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 166798
Ion Ratio Lower Upper
152 100
150 156.8 124.6 186.8
115 62.7 50.1 75.1



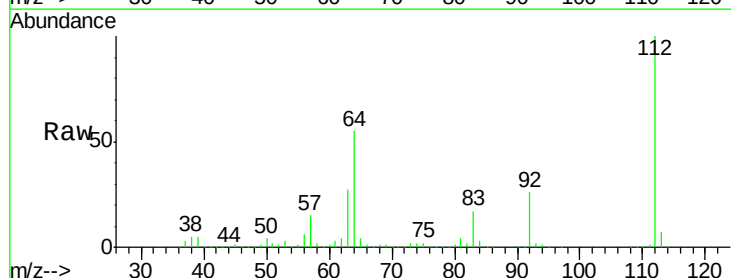
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



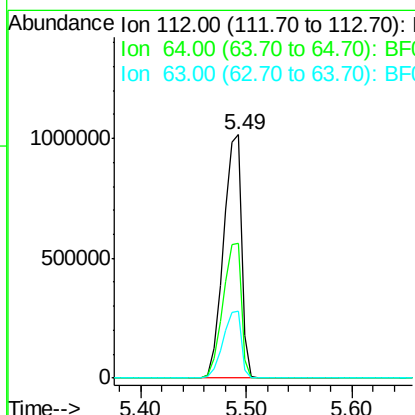
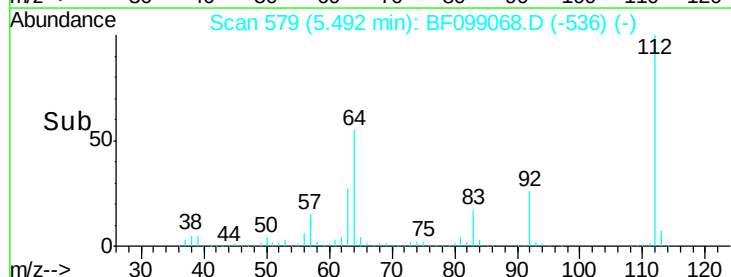
#5

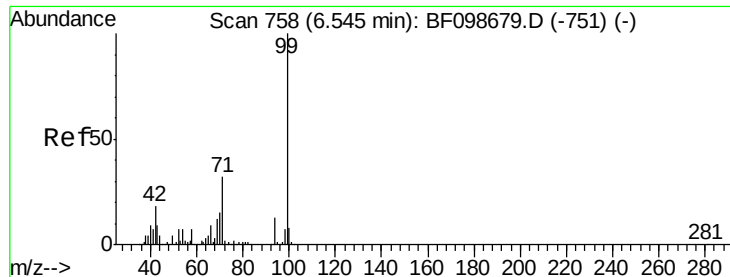
2-Fluorophenol
Concen: 115.44 ng
RT: 5.49 min Scan# 579
Delta R.T. -0.05 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Tgt Ion:112 Resp: 1209522
Ion Ratio Lower Upper
112 100
64 55.2 47.9 71.9
63 27.3 23.7 35.5



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: 122.31 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.05 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

Instrument :

BNA_F

ClientSampleId :

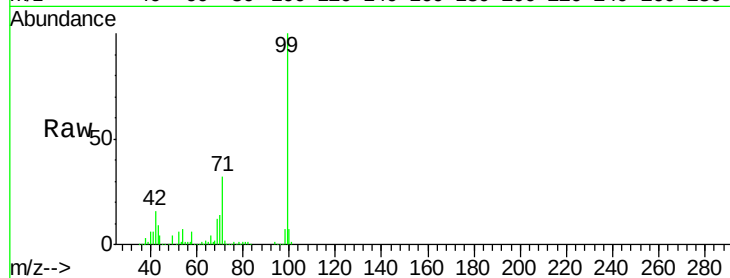
Tot Ion: 99 Resp: 1580908

Ion Ratio Lower Upper

99 100

42 16.3 14.5 21.7

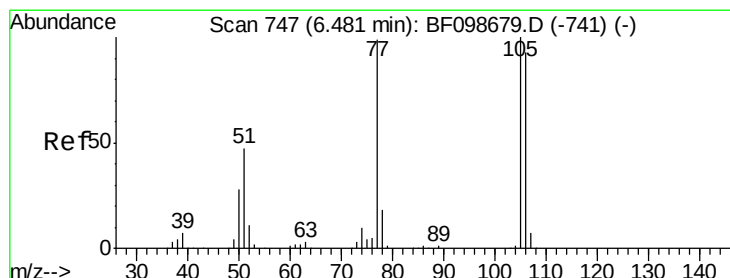
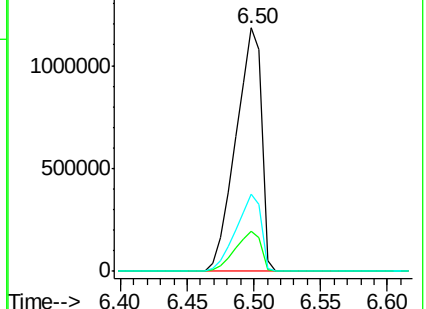
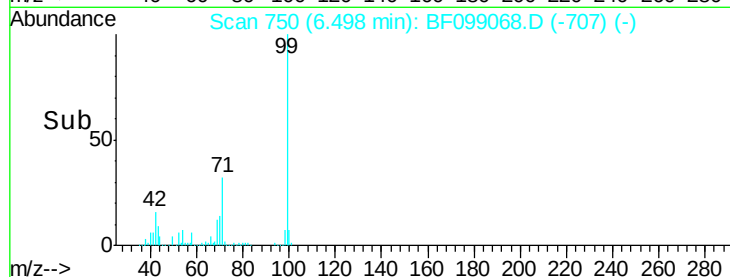
71 31.6 25.4 38.0



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



#9

Benzaldehyde

Concen: 3.35 ng

RT: 6.64 min Scan# 774

Delta R.T. 0.17 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

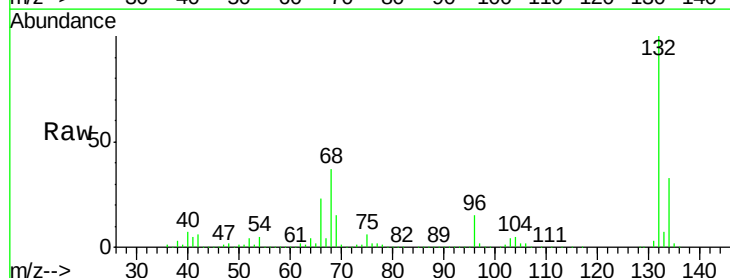
Tgt Ion: 77 Resp: 25128

Ion Ratio Lower Upper

77 100

105 81.2 81.1 121.1

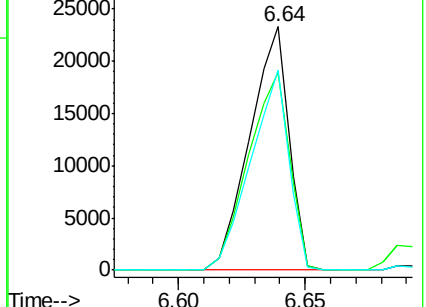
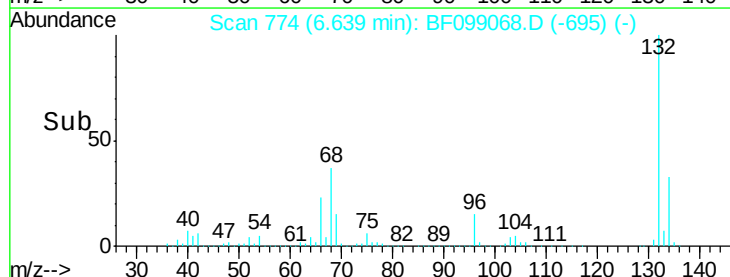
106 82.4 74.5 114.5

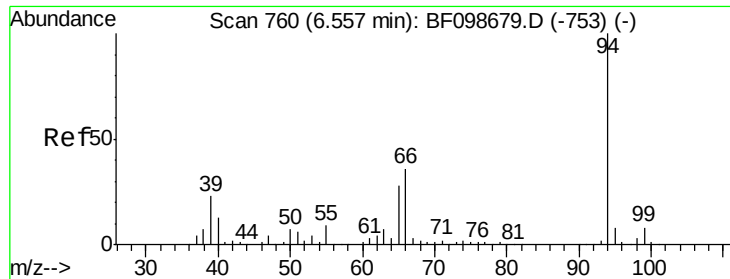


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 2.75 ng

RT: 6.51 min Scan# 752

Delta R.T. -0.05 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

Instrument :

BNA_F

ClientSampled :

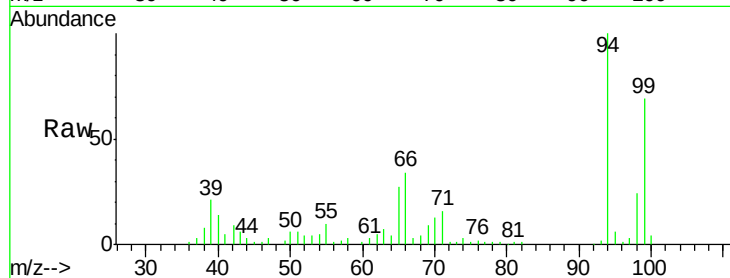
Tot Ion: 94 Resp: 39694

Ion Ratio Lower Upper

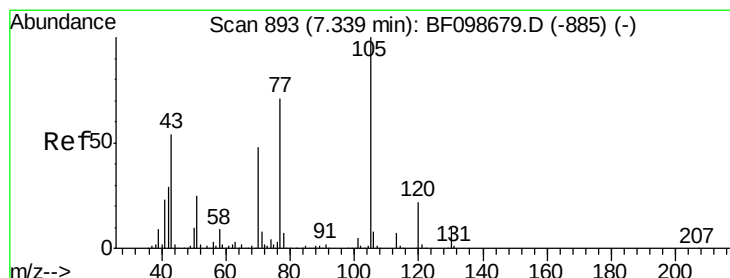
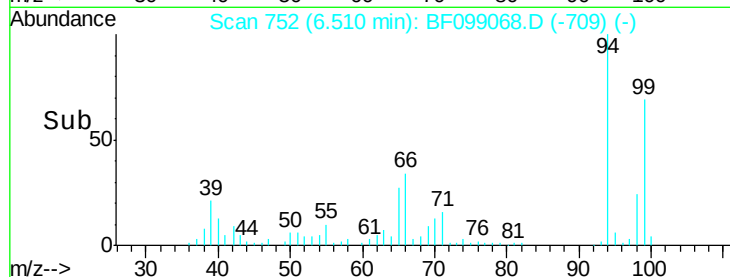
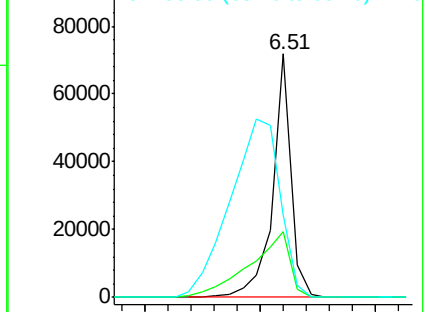
94 100

65 26.9 7.9 47.9

66 33.6 16.2 56.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.90 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.10 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

Tgt Ion: 70 Resp: 122926

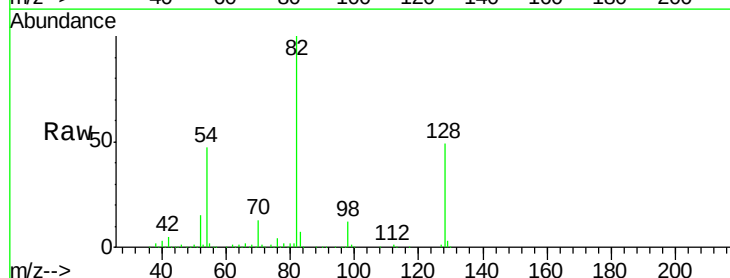
Ion Ratio Lower Upper

70 100

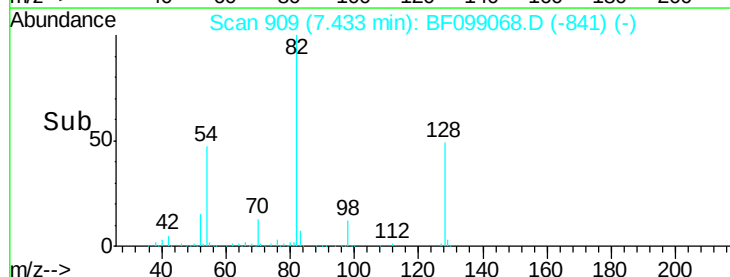
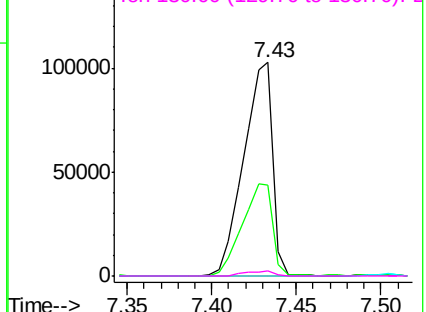
42 42.6 47.5 71.3#

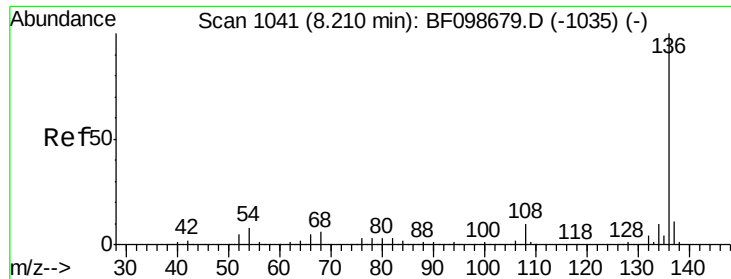
101 0.0 7.4 11.2#

130 2.3 16.6 25.0#



Abundance Ion 70.00 (69.70 to 70.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 101.00 (100.70 to 101.70): BF0
Ion 130.00 (129.70 to 130.70): BF0

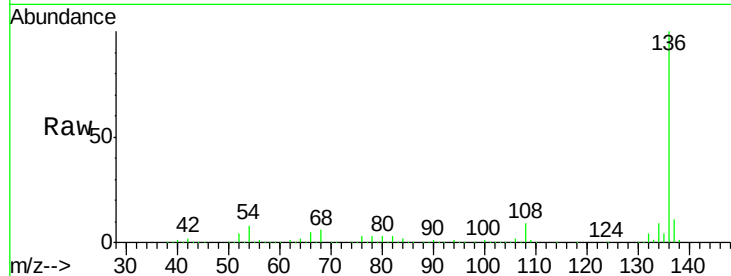




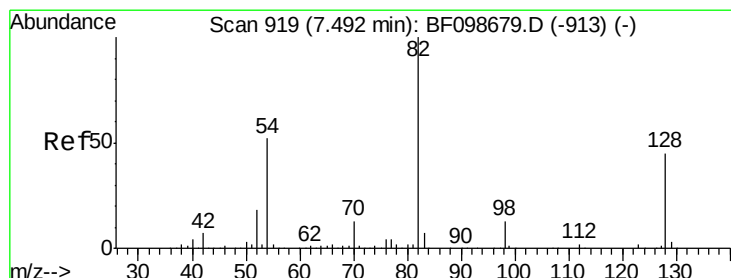
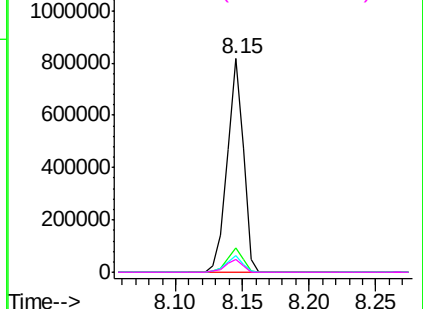
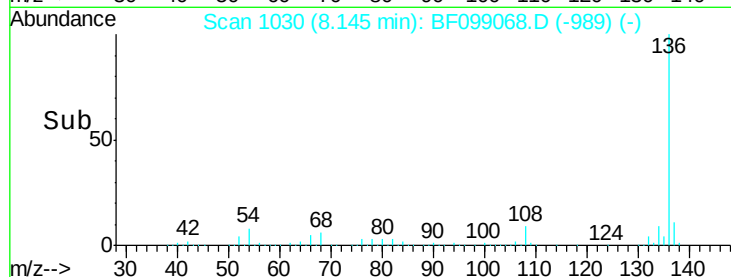
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.15 min Scan# 1030
Delta R.T. -0.06 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	703185
Ion	Ratio	Lower Upper
136	100	
137	11.1	8.9 13.3
54	7.7	6.6 9.8
68	6.3	5.0 7.4

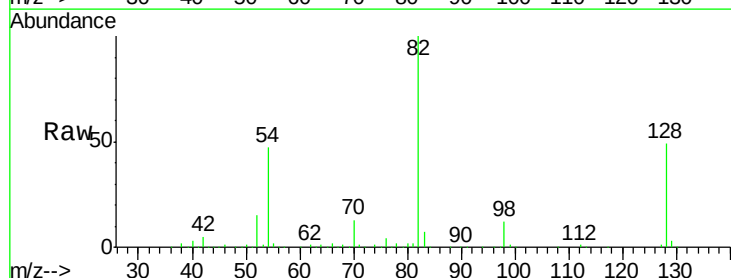


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

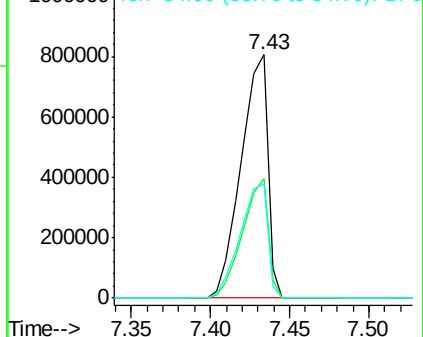
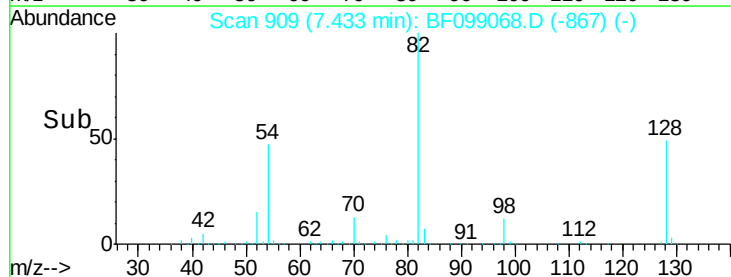


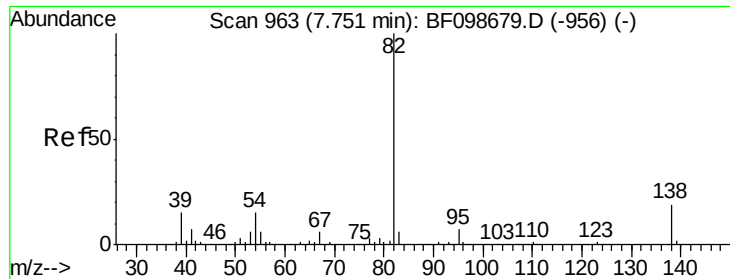
#23
Nitrobenzene-d5
Concen: 85.77 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.05 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Tgt Ion: 82	Resp:	940428
Ion	Ratio	Lower Upper
82	100	
128	49.2	36.1 54.1
54	46.8	41.4 62.2



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





#25

Isophorone

Concen: 41.11 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.31 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

Instrument :

BNA_F

ClientSampled :

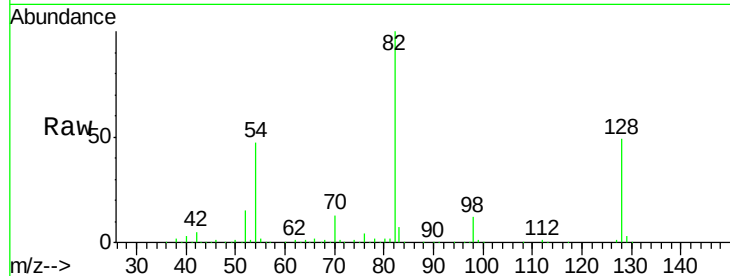
Tot Ion: 82 Resp: 931978

Ion Ratio Lower Upper

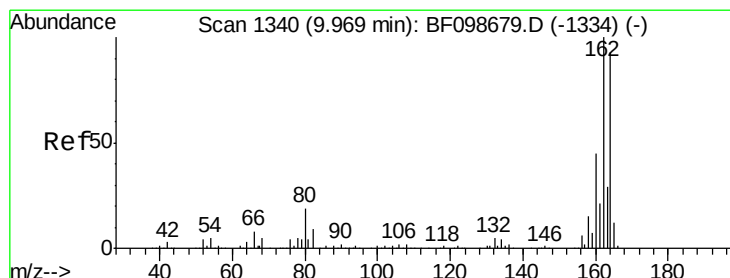
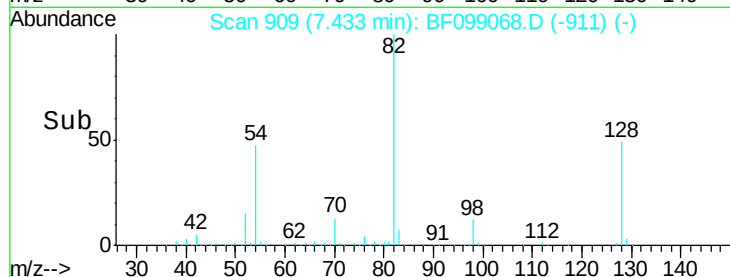
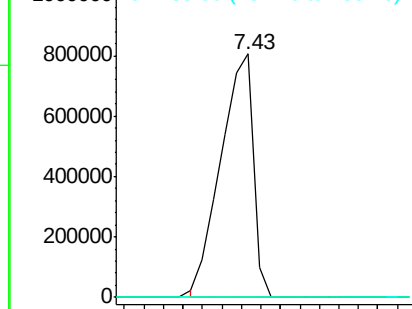
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.06 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

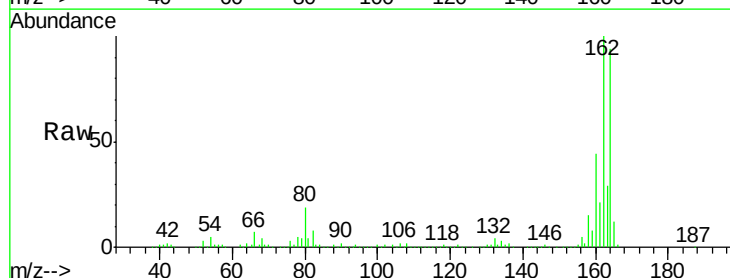
Tgt Ion:164 Resp: 325482

Ion Ratio Lower Upper

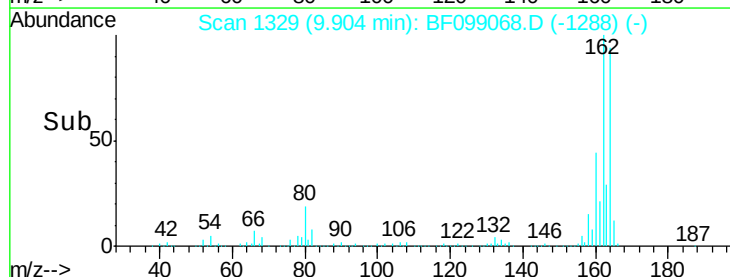
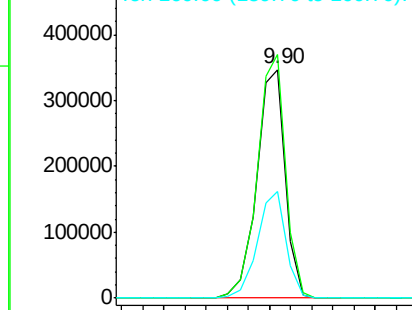
164 100

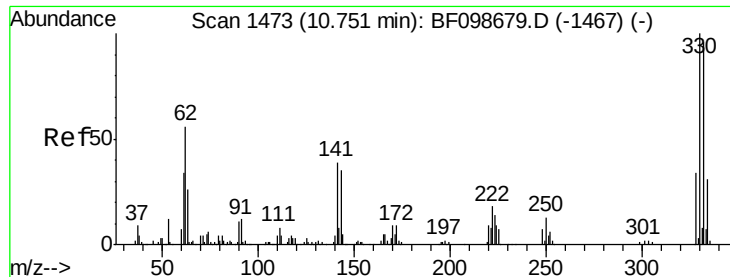
162 106.5 86.1 129.1

160 46.9 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

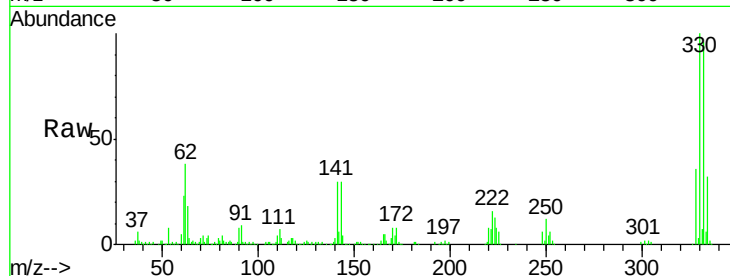




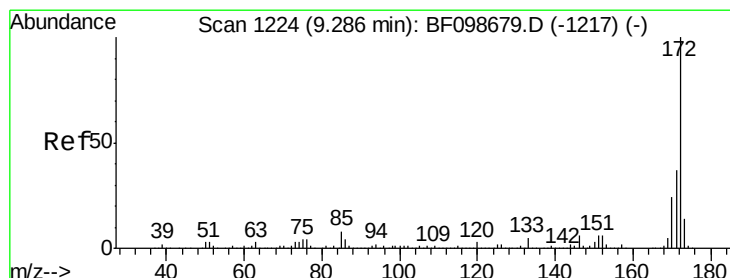
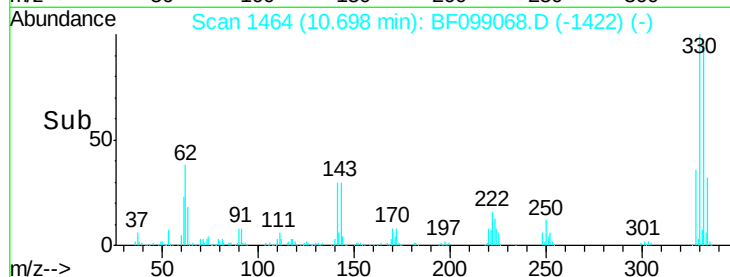
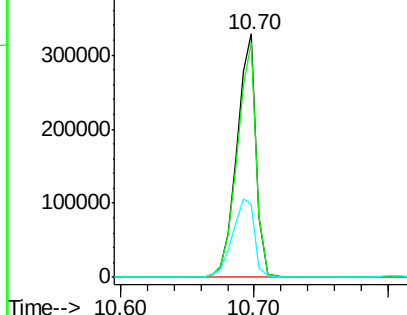
#41
 2,4,6-Tribromophenol
 Concen: 124.30 ng
 RT: 10.70 min Scan# 1464
 Delta R.T. -0.05 min
 Lab File: BF099068.D
 Acq: 4 Oct 2017 15:52

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.4	77.0	115.6
141	36.9	29.9	44.9

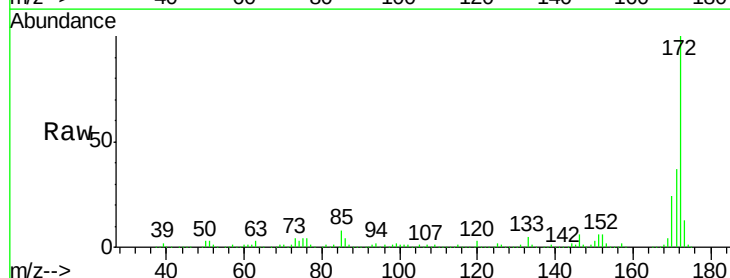


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

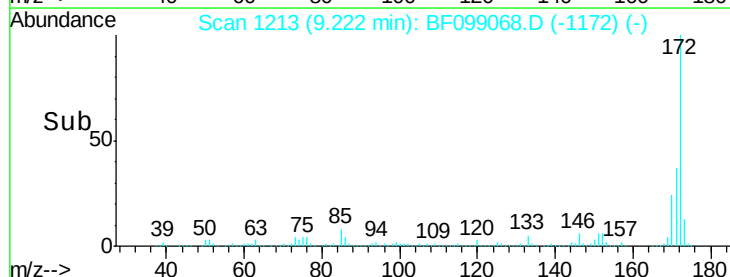
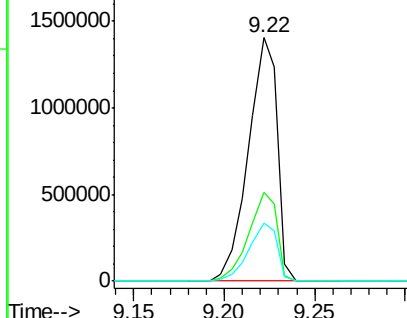


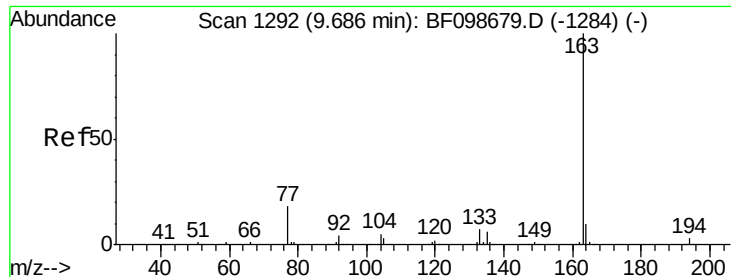
#44
 2-Fluorobiphenyl
 Concen: 79.66 ng
 RT: 9.22 min Scan# 1213
 Delta R.T. -0.06 min
 Lab File: BF099068.D
 Acq: 4 Oct 2017 15:52

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.7	44.5
170	24.0	19.6	29.4



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

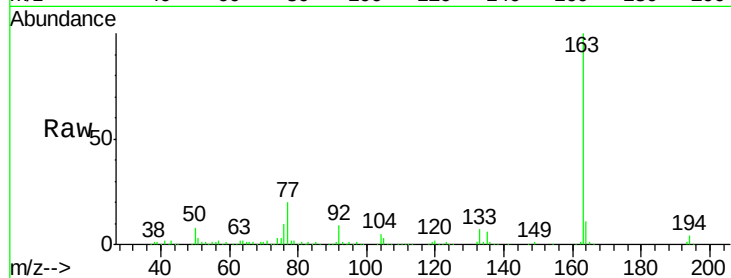




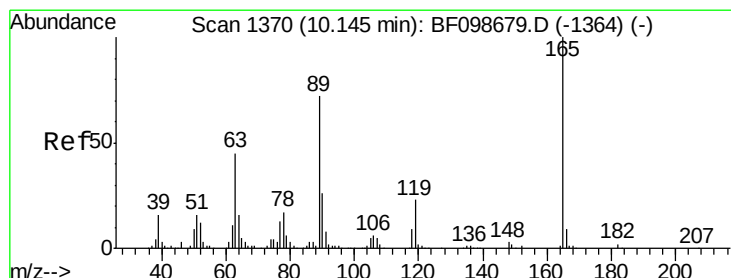
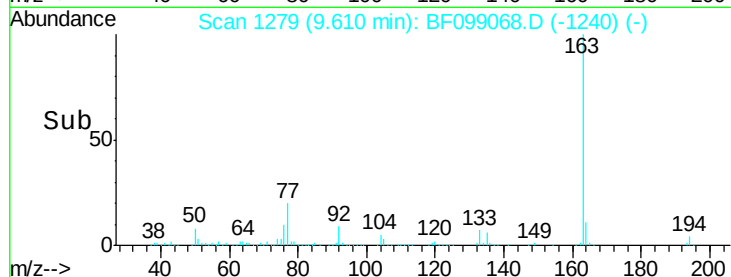
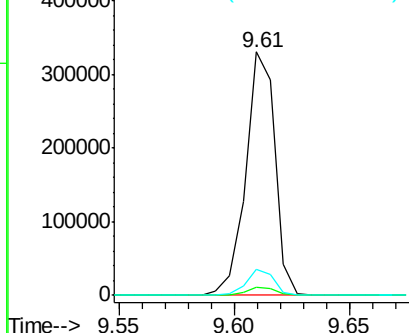
#49
Dimethylphthalate
Concen: 11.90 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.07 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:163 Resp: 292448
Ion Ratio Lower Upper
163 100
194 3.5 2.7 4.1
164 10.6 8.2 12.2

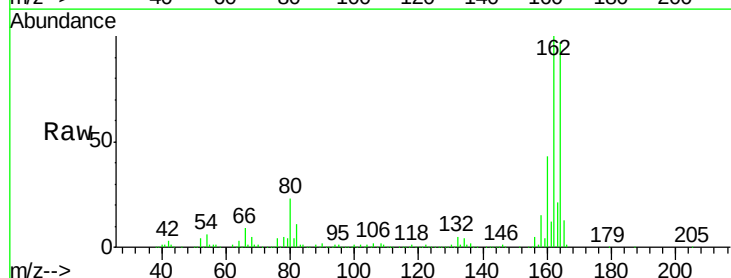


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

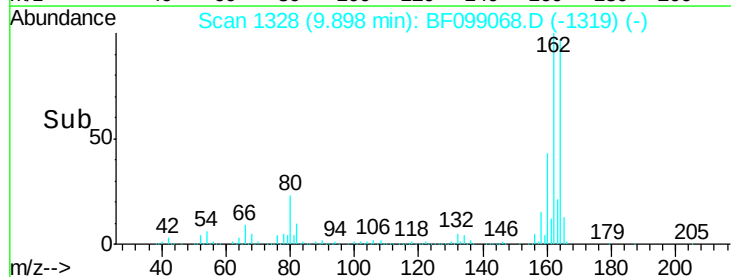
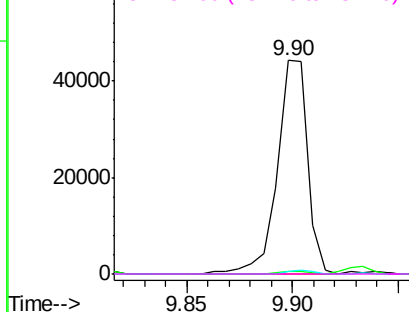


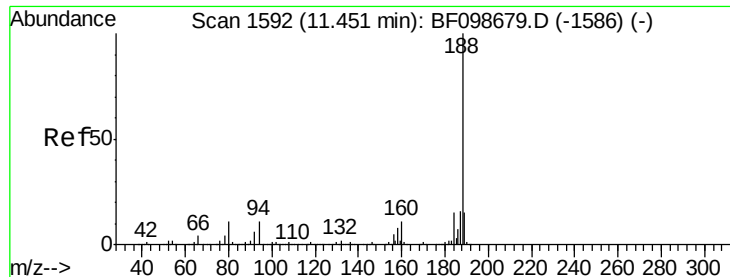
#56
2,4-Dinitrotoluene
Concen: 6.37 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.25 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Tgt Ion:165 Resp: 44242
Ion Ratio Lower Upper
165 100
63 1.0 36.4 54.6#
89 1.3 57.8 86.6#
182 0.0 1.6 2.4#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

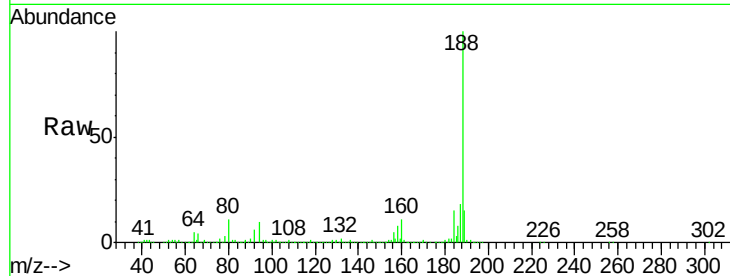




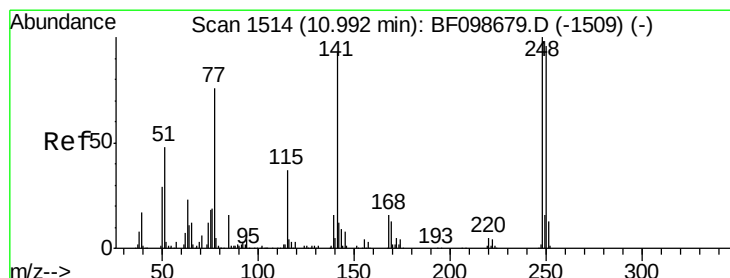
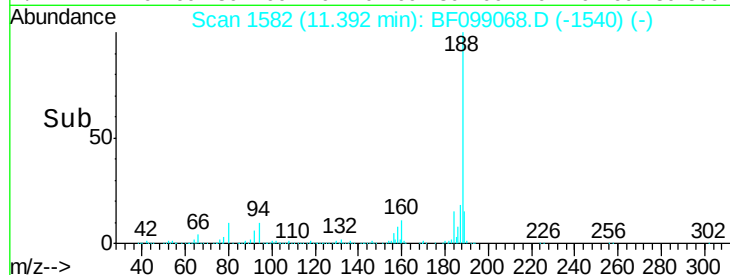
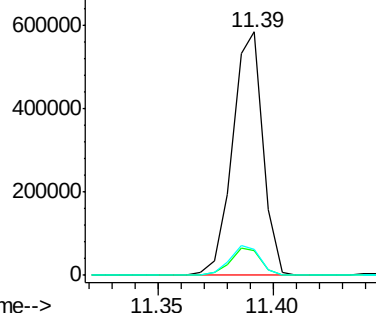
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.39 min Scan# 1582
Delta R.T. -0.05 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 534952
Ion Ratio Lower Upper
188 100
94 10.1 8.5 12.7
80 10.5 9.2 13.8

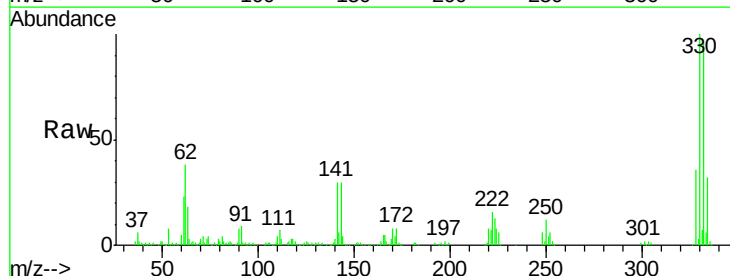


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

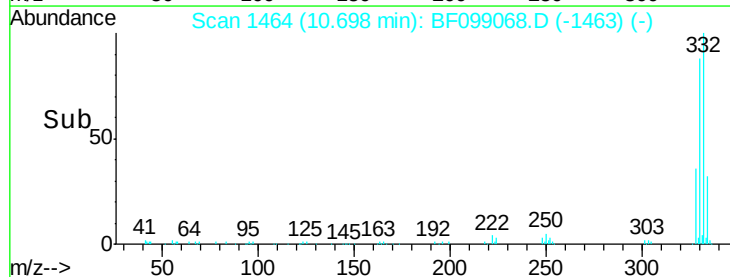
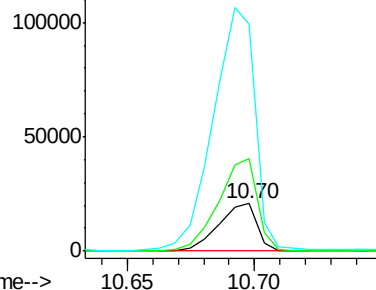


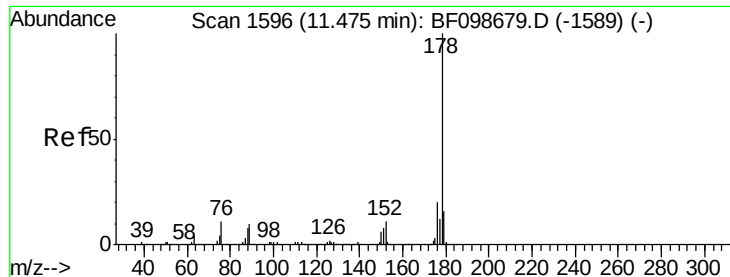
#66
4-Bromophenyl-phenylether
Concen: 4.23 ng
RT: 10.70 min Scan# 1464
Delta R.T. -0.29 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Tgt Ion:248 Resp: 22128
Ion Ratio Lower Upper
248 100
250 192.8 76.9 115.3#
141 475.9 74.4 111.6#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 5.11 ng

RT: 11.41 min Scan# 1585

Delta R.T. -0.06 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

Instrument :

BNA_F

ClientSampled :

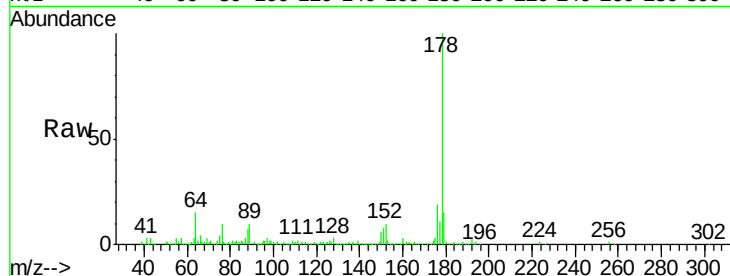
Tot Ion:178 Resp: 146331

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

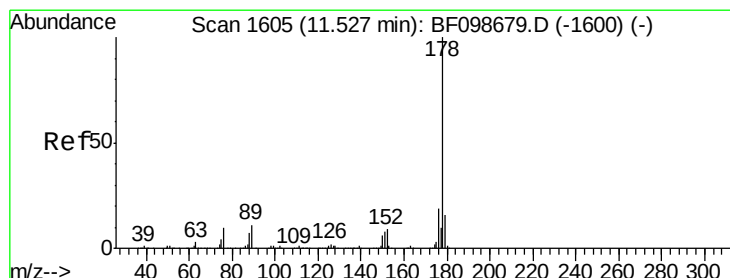
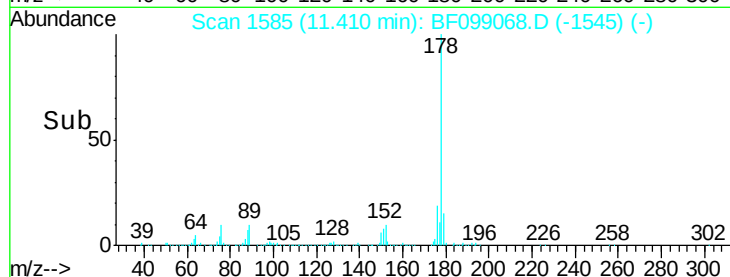
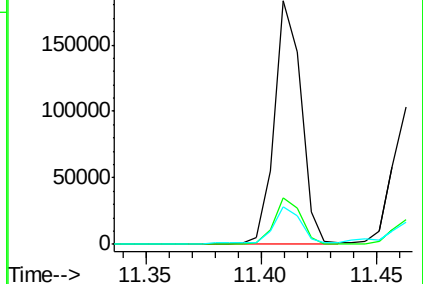
179 15.5 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 2.67 ng

RT: 11.46 min Scan# 1594

Delta R.T. -0.06 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

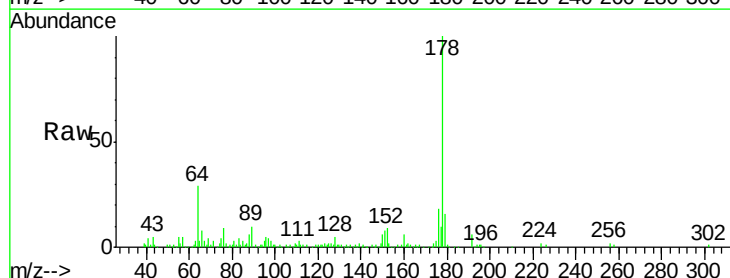
Tgt Ion:178 Resp: 78330

Ion Ratio Lower Upper

178 100

176 17.7 15.4 23.2

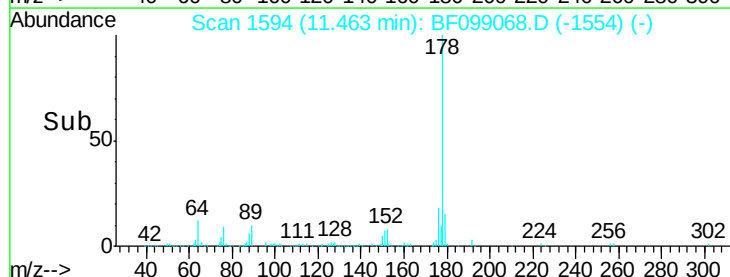
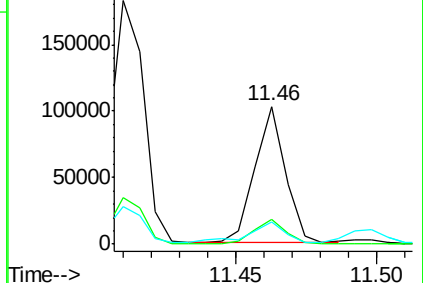
179 15.6 12.6 19.0

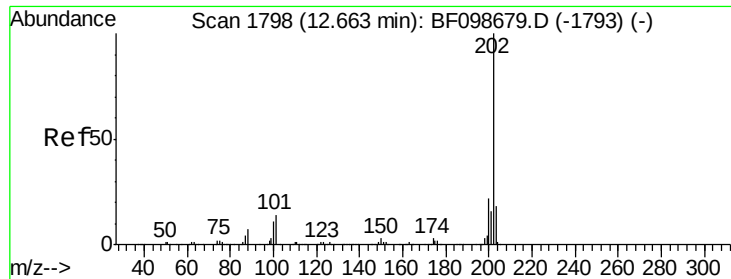


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

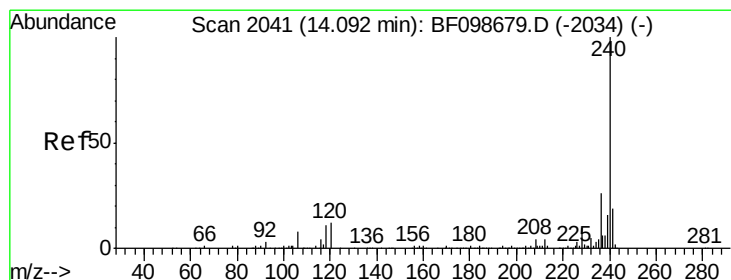
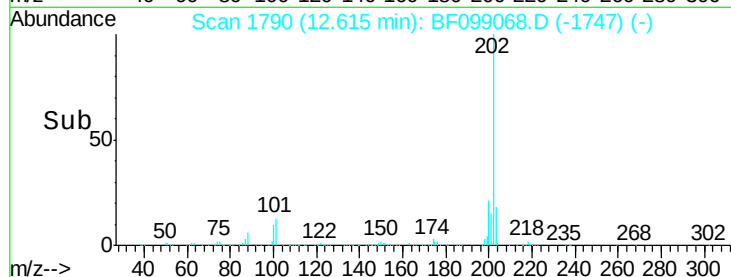
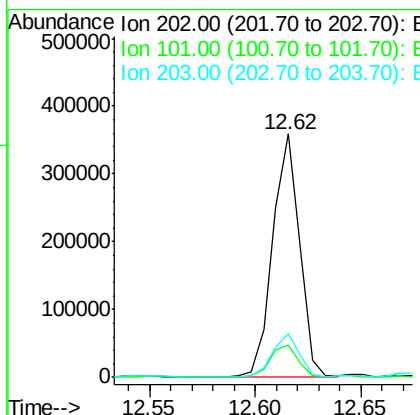
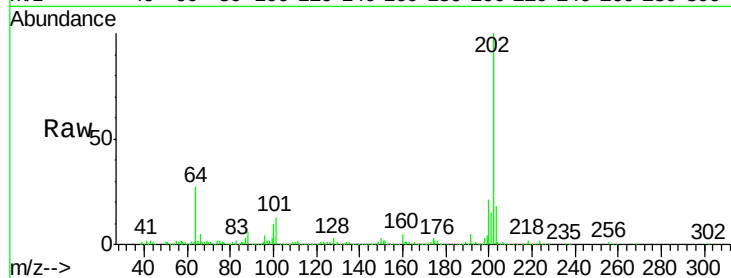




#74
Fluoranthene
Concen: 10.89 ng
RT: 12.62 min Scan# 1790
Delta R.T. -0.05 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

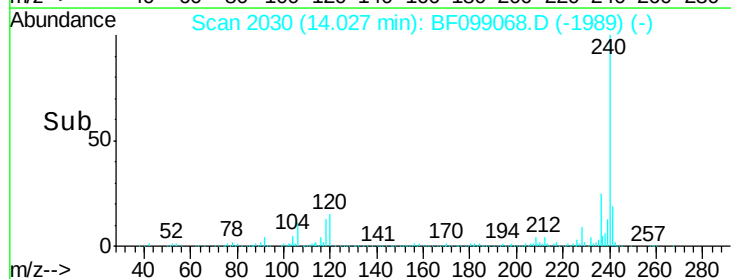
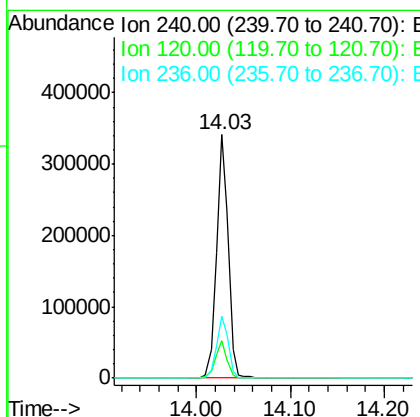
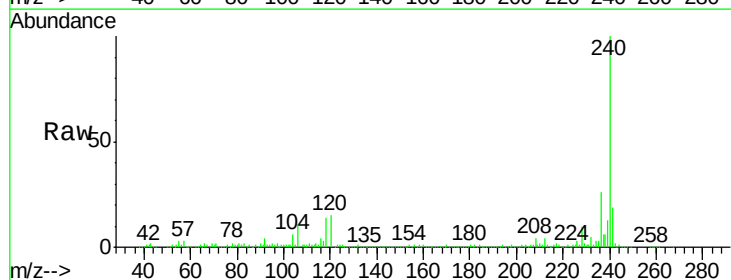
Instrument :
BNA_F
ClientSampled :

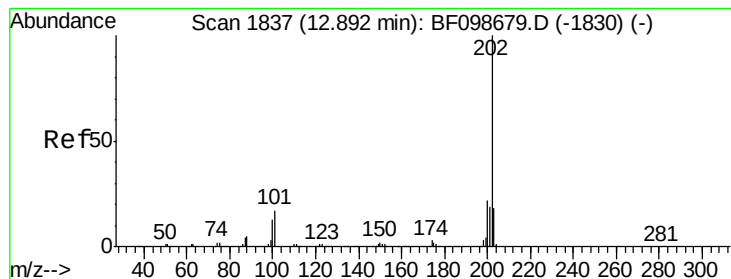
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	34.1
203	18.1	0.0	38.1



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.03 min Scan# 2030
Delta R.T. -0.06 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.3	9.5	14.3#
236	25.6	20.7	31.1





#77

Pvrene

Concen: 12.08 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.06 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

Instrument :

BNA_F

ClientSampleId :

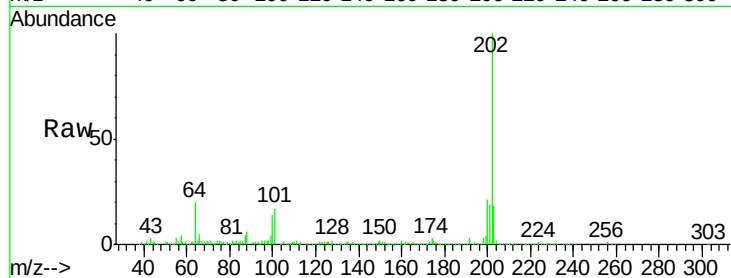
Tot Ion:202 Resp: 276789

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

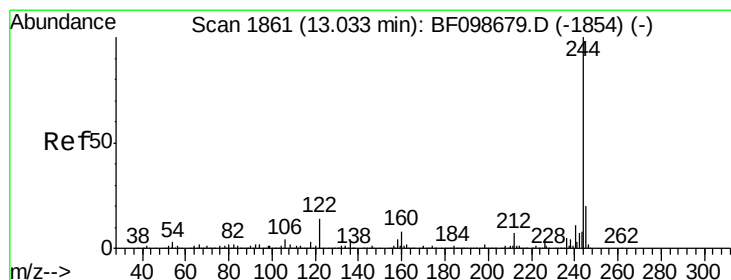
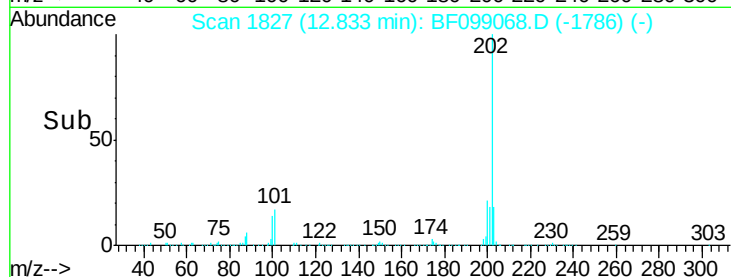
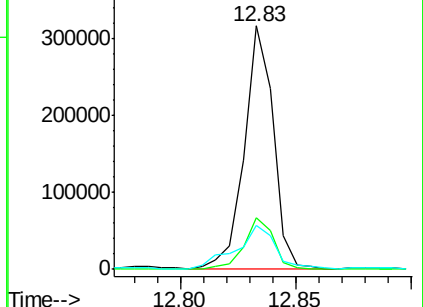
203 17.9 14.3 21.5



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: 82.38 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.05 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

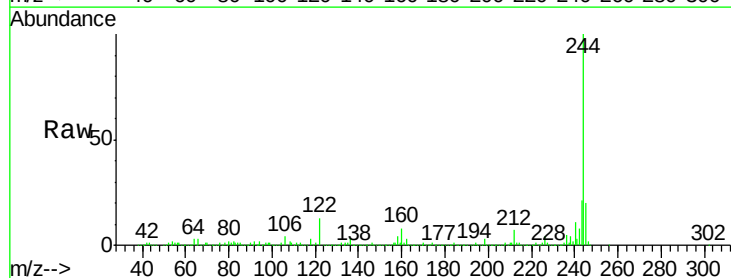
Tgt Ion:244 Resp: 1088332

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

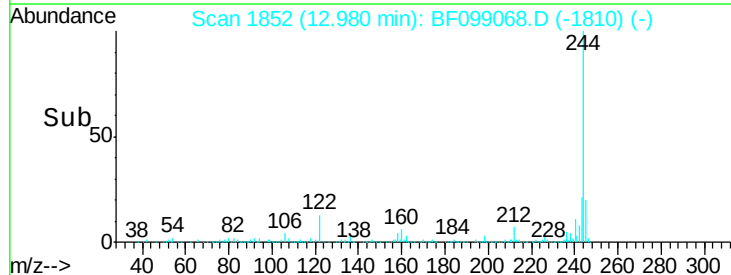
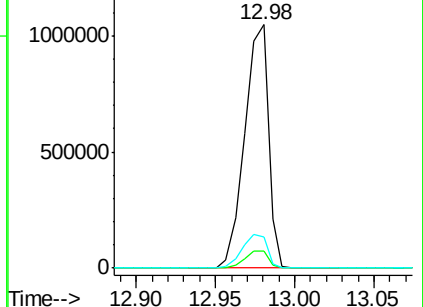
122 12.6 11.0 16.4

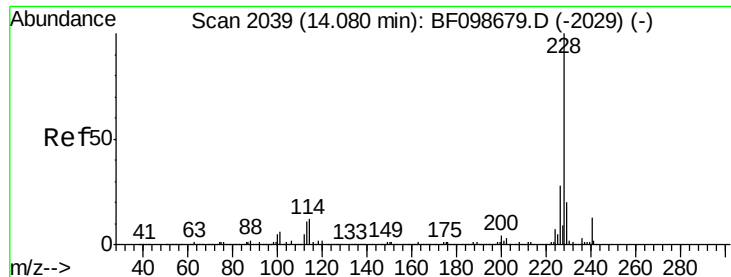


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 6.86 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.06 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

Instrument :

BNA_F

ClientSampleId :

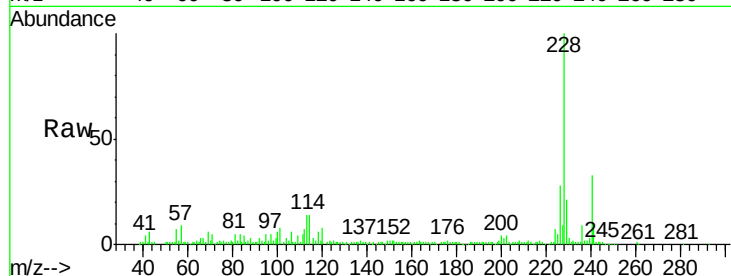
Tot Ion:228 Resp: 124711

Ion Ratio Lower Upper

228 100

226 28.4 22.6 33.8

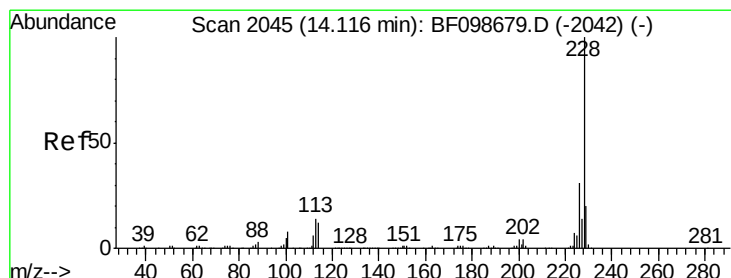
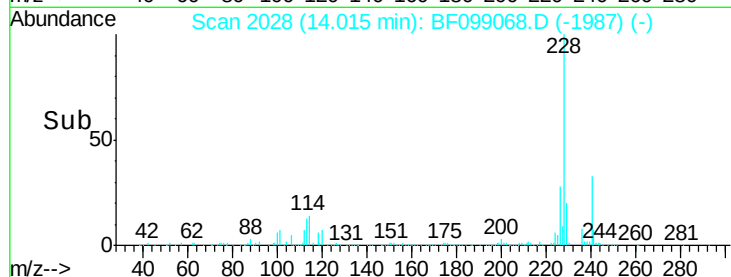
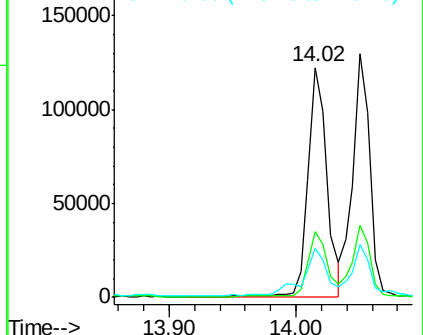
229 21.2 15.8 23.6



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



#82

Chrysene

Concen: 6.96 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.06 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

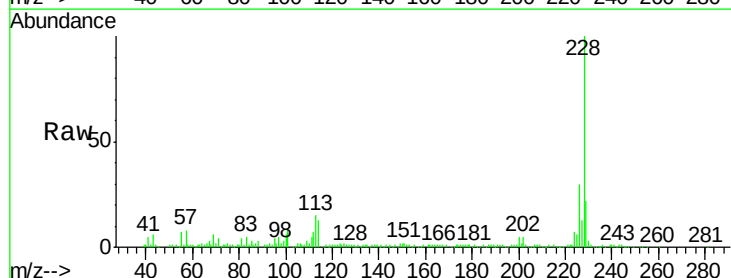
Tgt Ion:228 Resp: 120461

Ion Ratio Lower Upper

228 100

226 29.6 25.0 37.6

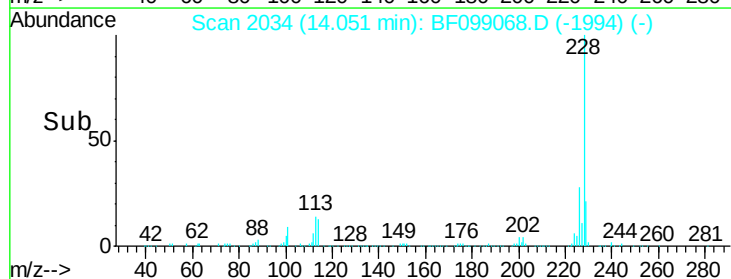
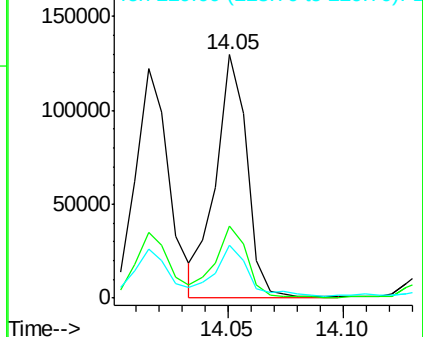
229 21.8 16.2 24.4

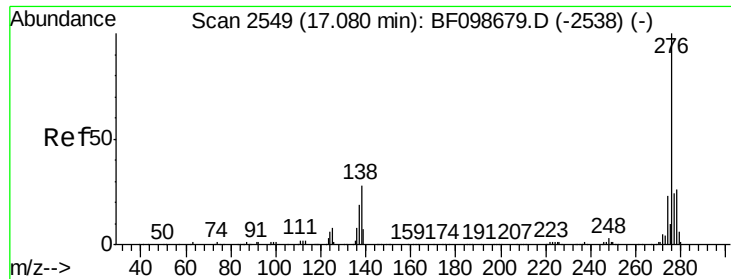


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

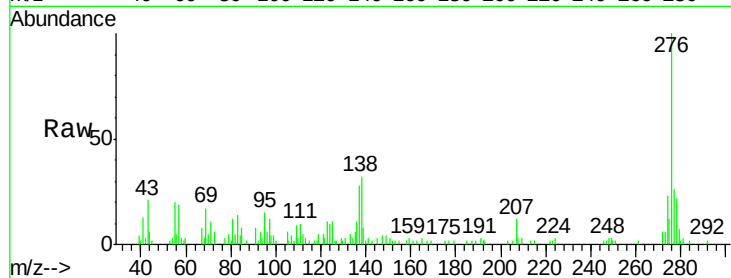




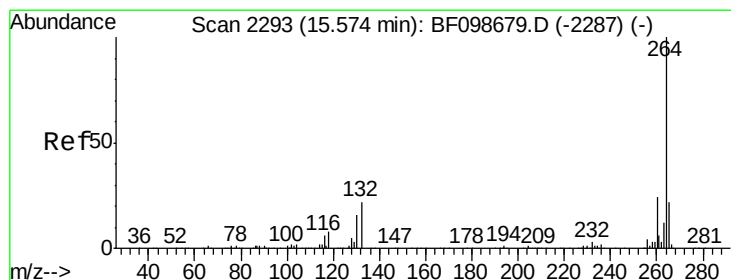
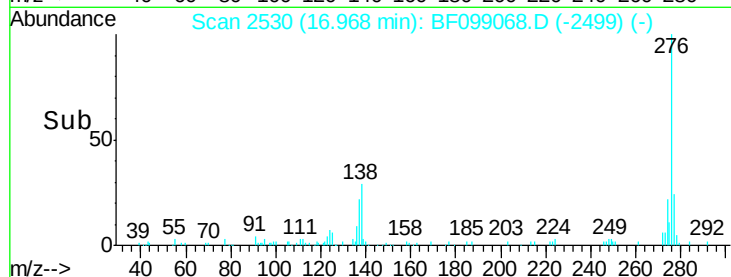
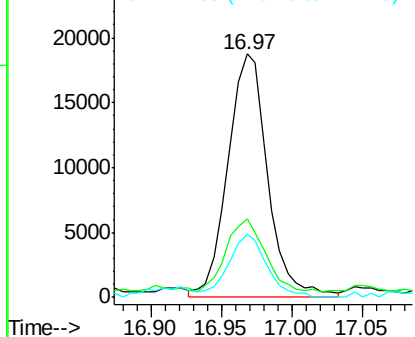
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.67 ng
 RT: 16.97 min Scan# 2530
 Delta R.T. -0.12 min
 Lab File: BF099068.D
 Acq: 4 Oct 2017 15:52

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	28.5	25.0	37.6
277	25.0	20.1	30.1

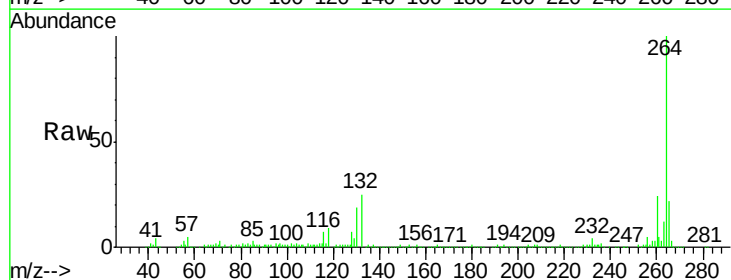


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

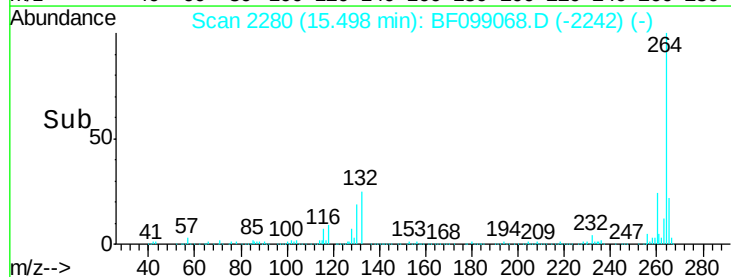
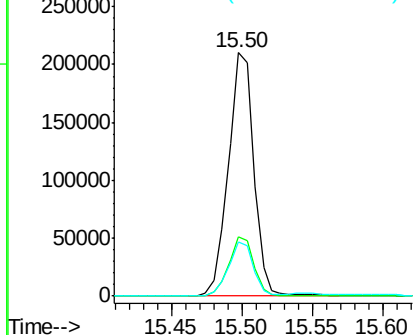


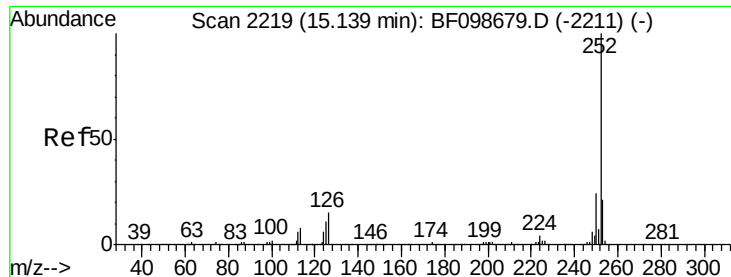
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.50 min Scan# 2280
 Delta R.T. -0.08 min
 Lab File: BF099068.D
 Acq: 4 Oct 2017 15:52

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	22.3	17.5	26.3



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E

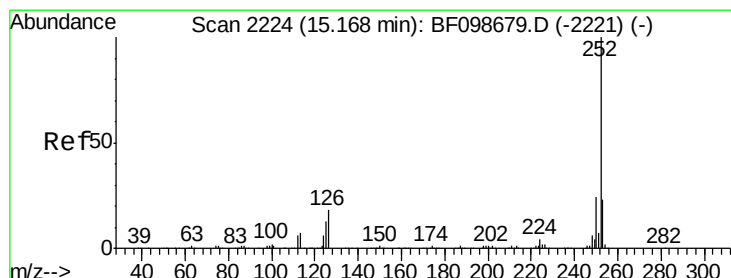
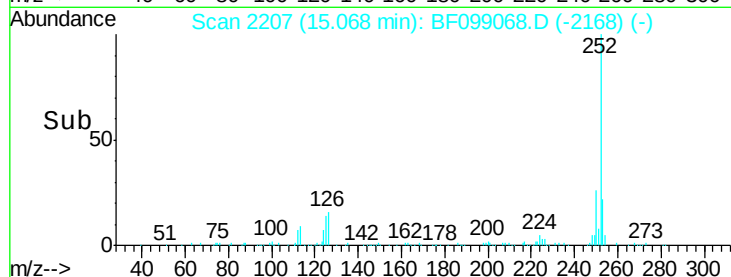
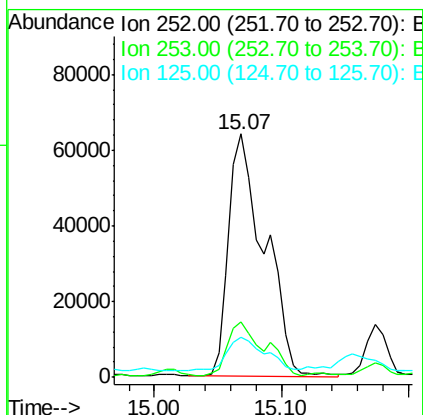
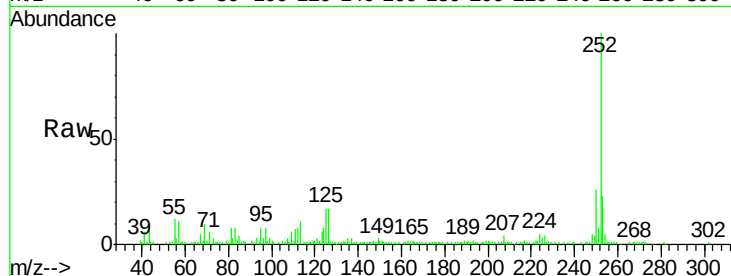




#87
Benzo(b)fluoranthene
Concen: 7.77 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.07 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

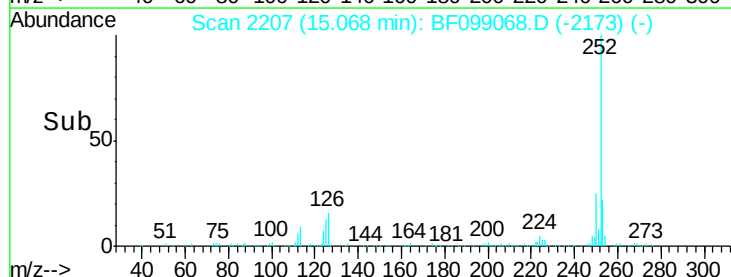
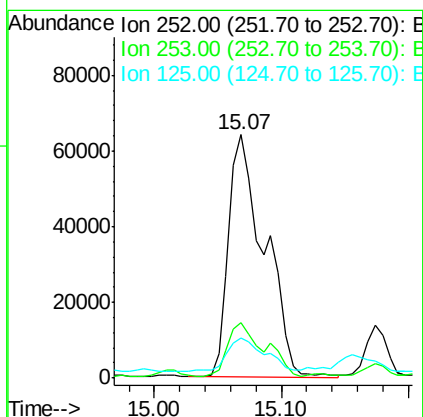
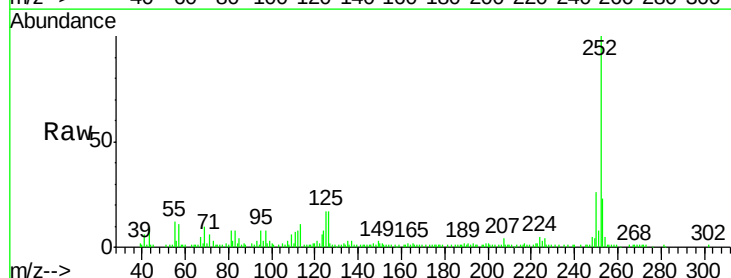
Instrument :
BNA_F
ClientSampleId :

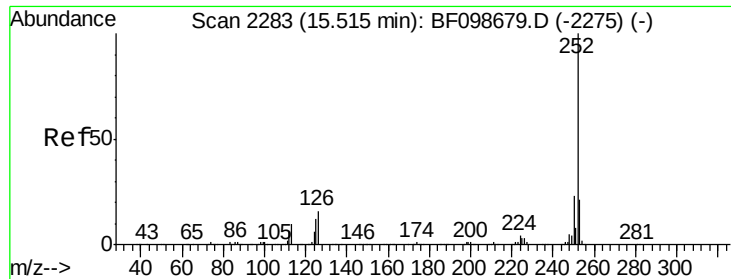
Tot Ion:252 Resp: 126748
Ion Ratio Lower Upper
252 100
253 22.9 17.0 25.6
125 16.6 9.0 13.6#



#88
Benzo(k)fluoranthene
Concen: 7.87 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.10 min
Lab File: BF099068.D
Acq: 4 Oct 2017 15:52

Tgt Ion:252 Resp: 126748
Ion Ratio Lower Upper
252 100
253 22.9 17.9 26.9
125 16.6 10.2 15.2#





#89

Benzo(a)pyrene

Concen: 4.29 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.08 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

Instrument :

BNA_F

ClientSampleId :

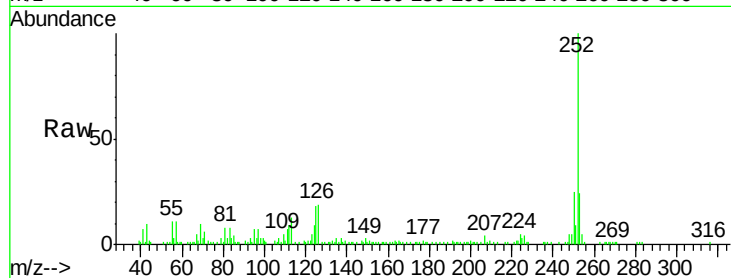
Tot Ion:252 Resp: 64170

Ion Ratio Lower Upper

252 100

253 23.8 17.1 25.7

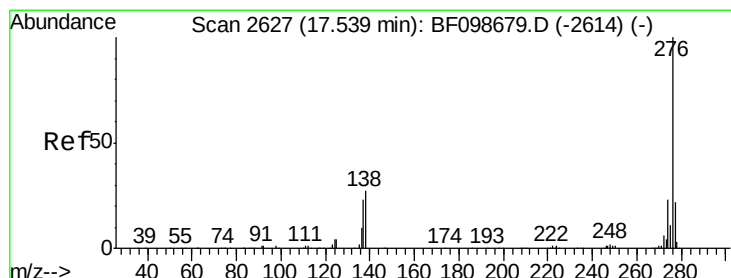
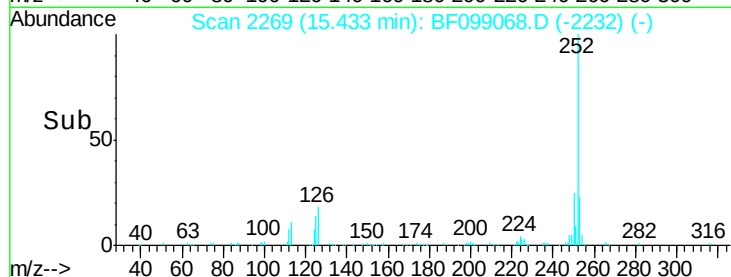
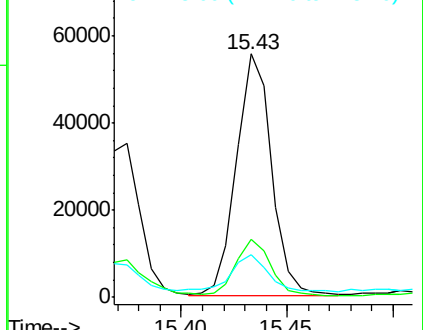
125 17.5 9.8 14.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 3.03 ng

RT: 17.42 min Scan# 2606

Delta R.T. -0.13 min

Lab File: BF099068.D

Acq: 4 Oct 2017 15:52

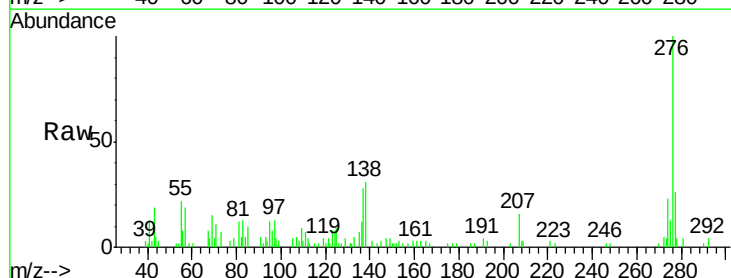
Tgt Ion:276 Resp: 35859

Ion Ratio Lower Upper

276 100

277 25.7 17.9 26.9

138 31.4 21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

