

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041018\
 Data File : BF104398.D
 Acq On : 10 Apr 2018 10:10
 Operator : JU/SJ
 Sample : J2296-03
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-4-COMP

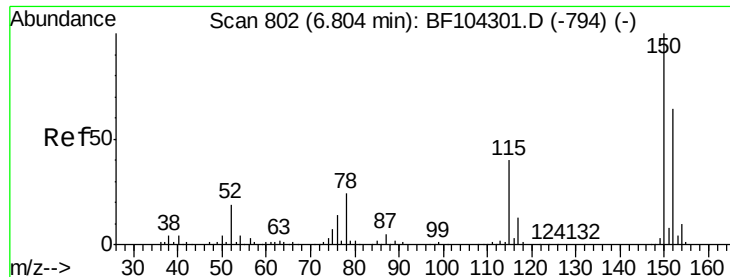
Quant Time: Apr 10 14:34:11 2018
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 10 12:04:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	149232	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	605565	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	273208	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	472553	20.00	ng	0.00
75) Chrysene-d12	13.97	240	315069	20.00	ng	-0.01
86) Perylene-d12	15.44	264	316241	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	1199902	122.94	ng	0.01
7) Phenol-d6	6.44	99	1499288	125.03	ng	0.00
23) Nitrobenzene-d5	7.37	82	927573	100.02	ng	0.00
41) 2,4,6-Tribromophenol	10.64	330	358795	126.60	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	1321938	76.44	ng	0.00
78) Terphenyl-d14	12.93	244	1108522	80.21	ng	0.00

Target Compounds				Qvalue		
9) Benzaldehyde	6.58	77	26822	2.132	ng	82
10) Phenol	6.45	94	37964	2.984	ng	94
17) 2-Methylphenol	7.26	107	36044	4.025	ng	# 28
19) n-Nitroso-di-n-propylamine	7.37	70	120948	15.435	ng	# 74
20) 3+4-Methylphenols	7.26	107	38613	3.477	ng	# 39
25) Isophorone	7.37	82	927563	47.298	ng	# 64
49) Dimethylphthalate	9.56	163	195653	9.081	ng	100
56) 2,4-Dinitrotoluene	10.03	165	16285	3.114	ng	# 86
64) 4,6-Dinitro-2-methylphenol	10.63	198	691	7.601	ng	# 1
66) 4-Bromophenyl-phenylether	10.64	248	21162	4.210	ng	# 1
70) Phenanthrene	11.36	178	100936	3.836	ng	98
74) Fluoranthene	12.54	202	148100	5.386	ng	97
76) Benzidine	12.93	184	14820	Below Cal	#	93
77) Pyrene	12.77	202	149741	6.412	ng	98
80) Benzo(a)anthracene	13.96	228	77603	4.123	ng	95
82) Chrysene	14.00	228	74499	3.853	ng	97
85) Indeno(1,2,3-cd)pyrene	16.87	276	49287	3.001	ng	94
87) Benzo(b)fluoranthene	15.02	252	134097	6.714	ng	96
88) Benzo(k)fluoranthene	15.02	252	134097	7.111	ng	99
89) Benzo(a)pyrene	15.37	252	65598	3.671	ng	99
91) Benzo(g,h,i)perylene	17.31	276	48872	3.437	ng	94

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.80 min Scan# 802

Delta R.T. -0.01 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Instrument :

BNA_F

ClientSampleId :

S-4-COMP

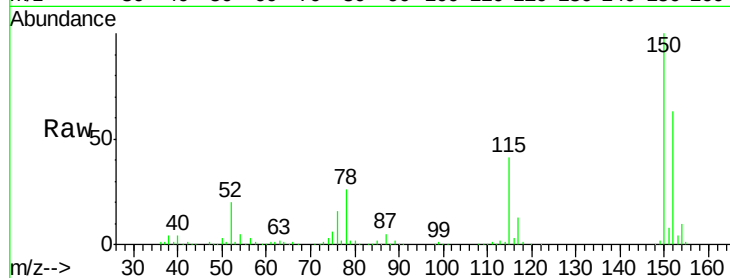
Tgt Ion:152 Resp: 149232

Ion Ratio Lower Upper

152 100

150 158.9 124.6 186.8

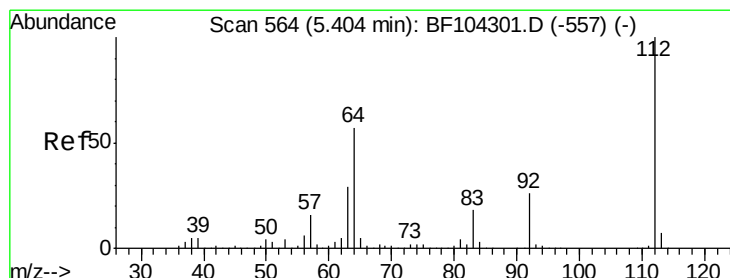
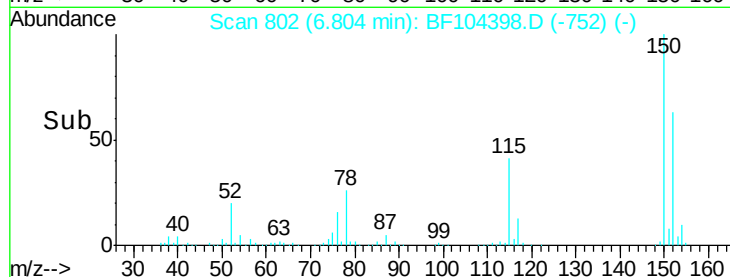
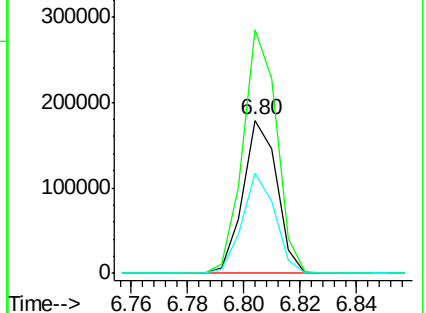
115 65.6 50.1 75.1



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: 122.944 ng

RT: 5.42 min Scan# 567

Delta R.T. 0.01 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

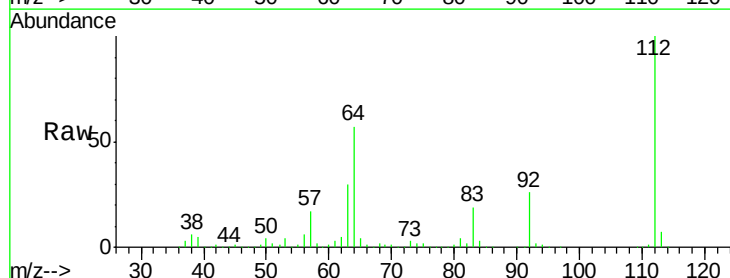
Tgt Ion:112 Resp: 1199902

Ion Ratio Lower Upper

112 100

64 57.1 47.9 71.9

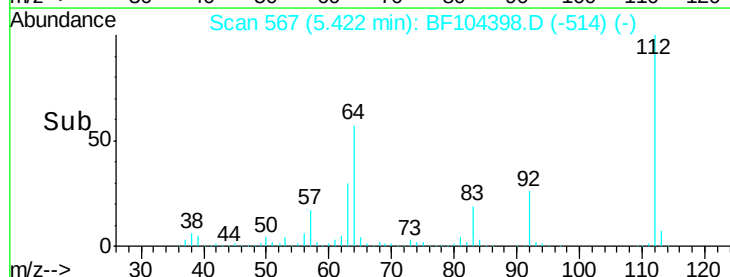
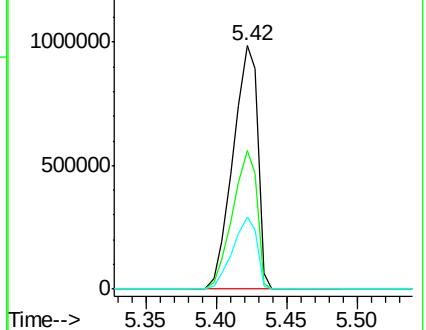
63 29.7 23.7 35.5

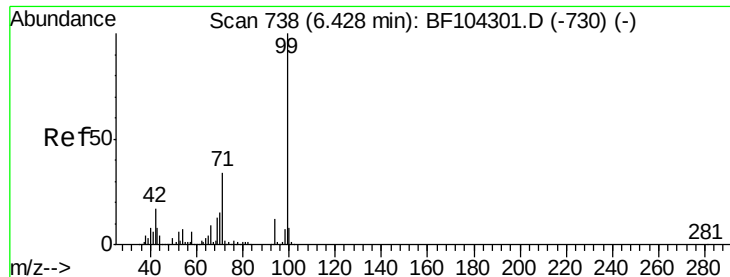


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 125.029 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.00 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Instrument :

BNA_F

ClientSampleId :

S-4-COMP

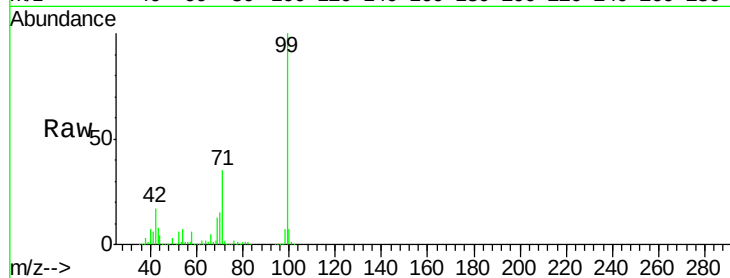
Tgt Ion: 99 Resp: 1499288

Ion Ratio Lower Upper

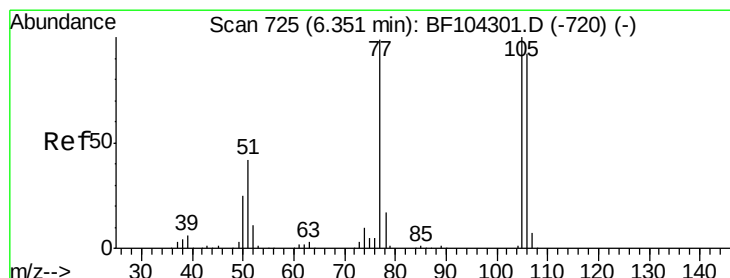
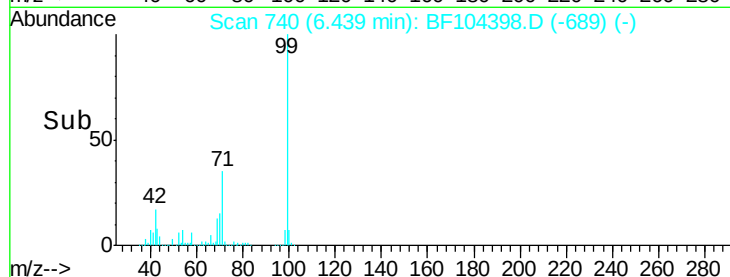
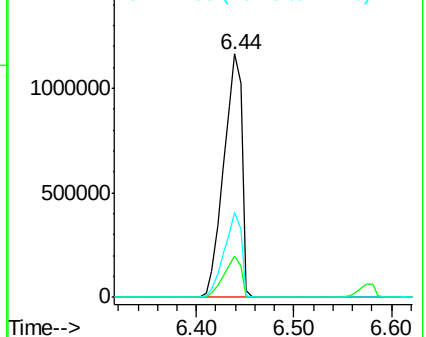
99 100

42 16.8 14.5 21.7

71 34.8 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#9

Benzaldehyde

Concen: 2.132 ng

RT: 6.58 min Scan# 764

Delta R.T. 0.22 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

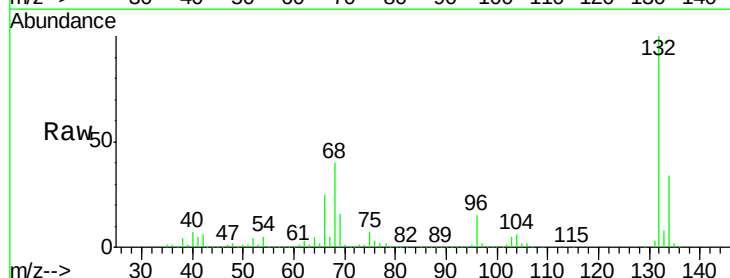
Tgt Ion: 77 Resp: 26822

Ion Ratio Lower Upper

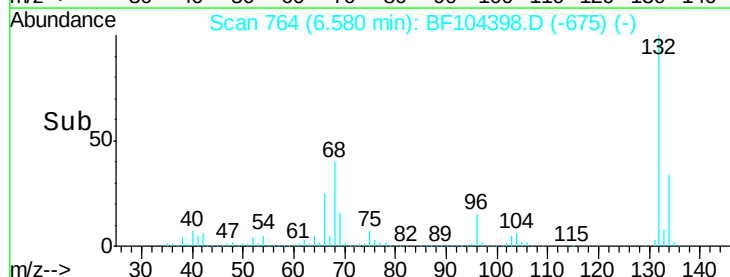
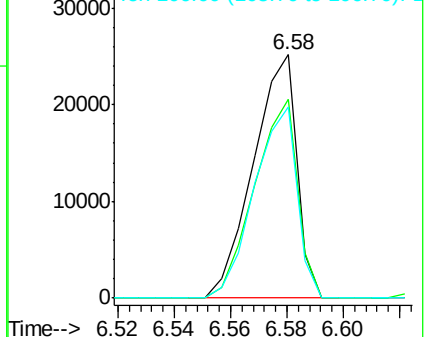
77 100

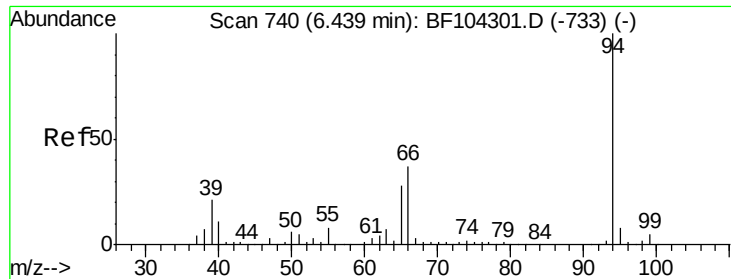
105 81.6 81.1 121.1

106 78.8 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): BF1
Ion 106.00 (105.70 to 106.70): BF1

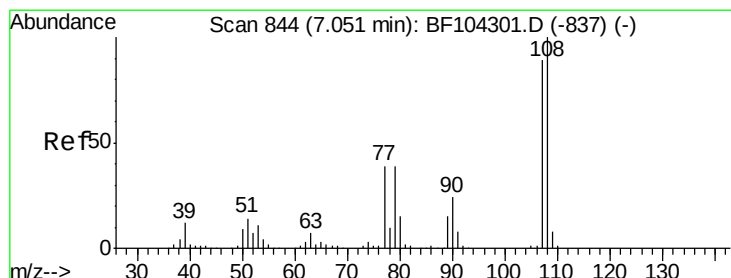
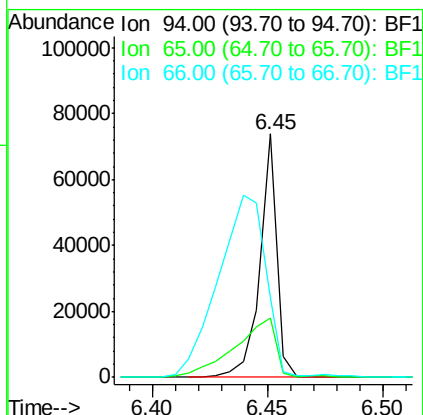
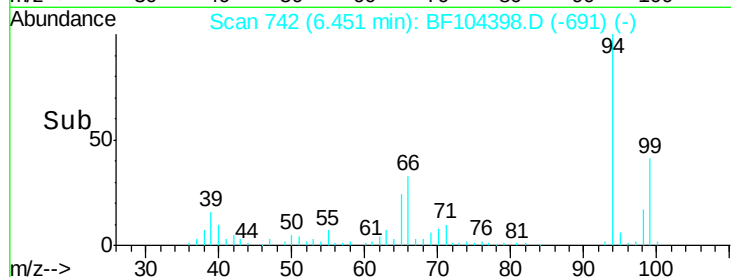
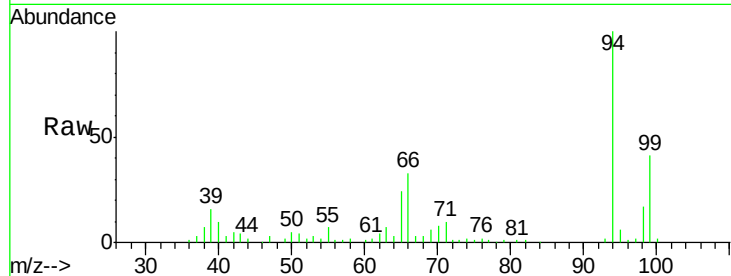




#10
Phenol
Concen: 2.984 ng
RT: 6.45 min Scan# 742
Delta R.T. -0.00 min
Lab File: BF104398.D
Acq: 10 Apr 2018 10:10

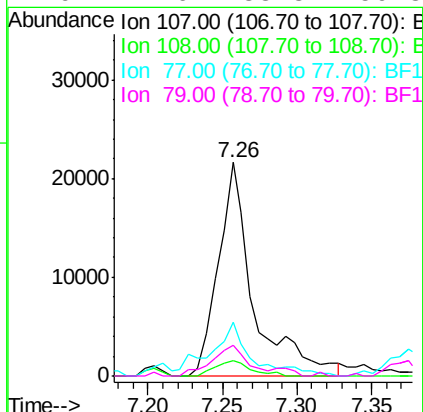
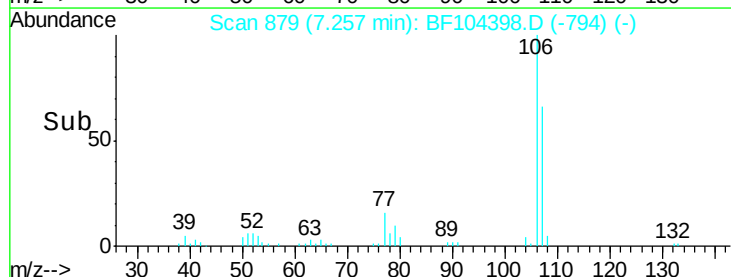
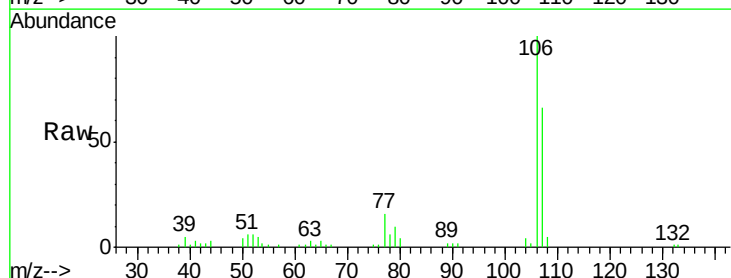
Instrument :
BNA_F
ClientSampleID :
S-4-COMP

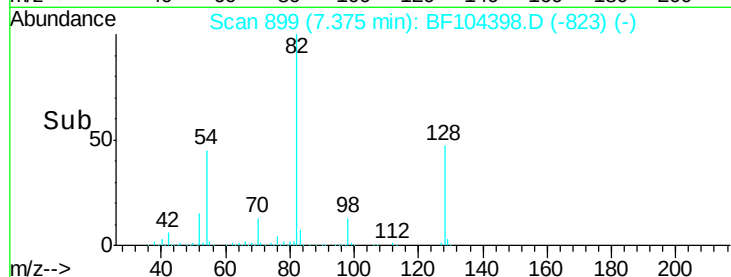
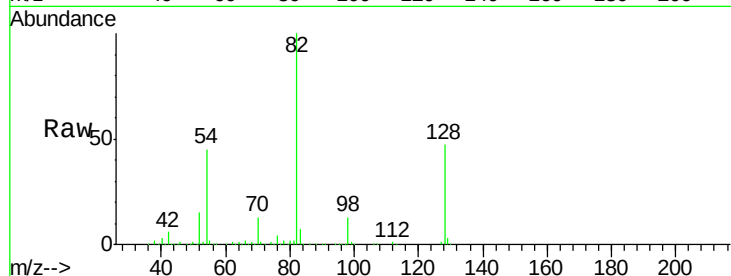
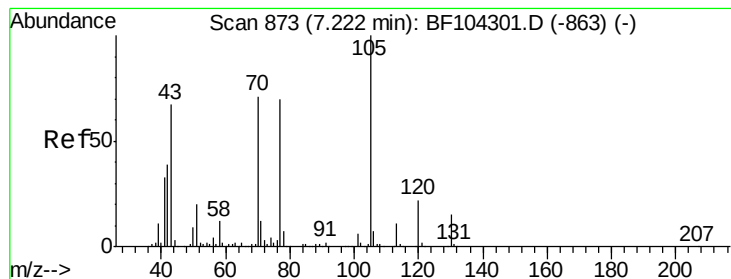
Tgt Ion: 94 Resp: 37964
Ion Ratio Lower Upper
94 100
65 24.4 7.9 47.9
66 33.0 16.2 56.2



#17
2-Methylphenol
Concen: 4.025 ng
RT: 7.26 min Scan# 879
Delta R.T. 0.20 min
Lab File: BF104398.D
Acq: 10 Apr 2018 10:10

Tgt Ion: 107 Resp: 36044
Ion Ratio Lower Upper
107 100
108 7.0 91.7 137.5#
77 24.9 33.8 50.8#
79 14.6 33.8 50.8#





#19

n-Nitroso-di-n-propylamine

Concen: 15.435 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Instrument :

BNA_F

ClientSampleId :

S-4-COMP

Tgt Ion: 70 Resp: 120948

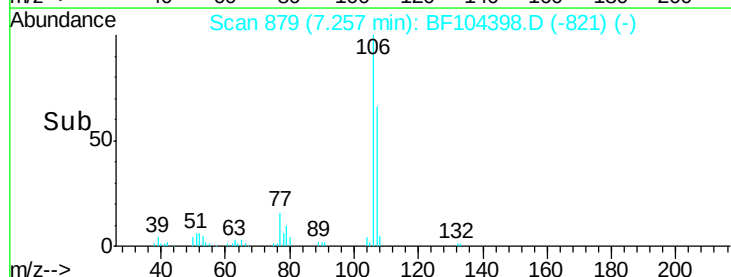
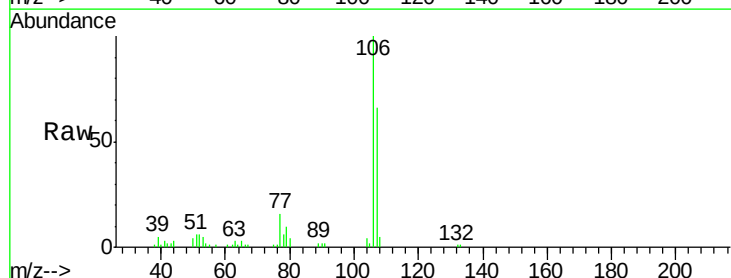
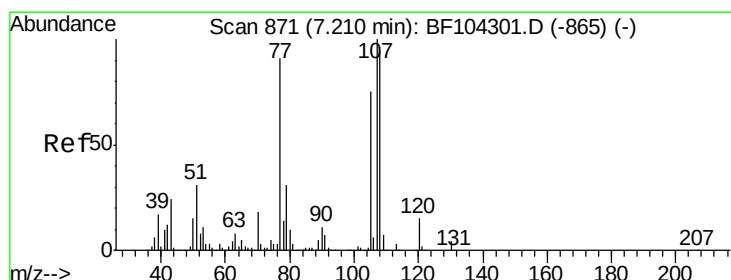
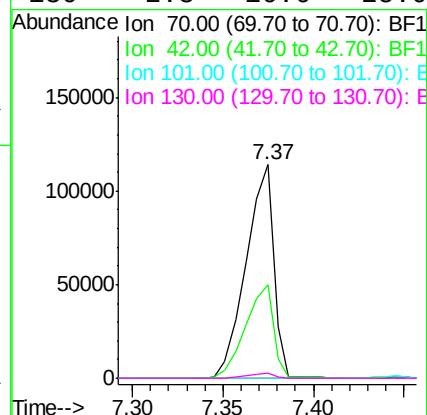
Ion Ratio Lower Upper

70 100

42 43.5 47.5 71.3#

101 0.0 7.4 11.2#

130 2.3 16.6 25.0#



#20

3+4-Methylphenols

Concen: 3.477 ng

RT: 7.26 min Scan# 879

Delta R.T. 0.04 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Tgt Ion:107 Resp: 38613

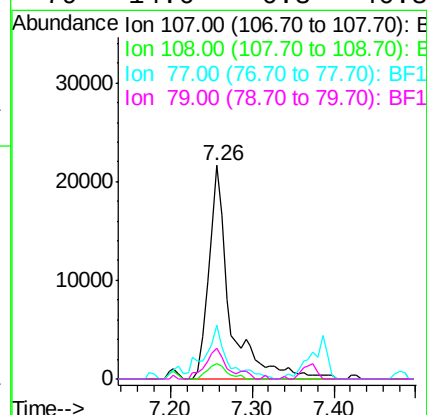
Ion Ratio Lower Upper

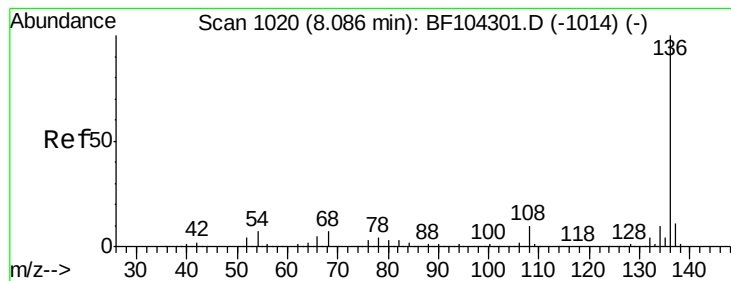
107 100

108 7.0 68.2 108.2#

77 24.9 26.7 66.7#

79 14.6 6.3 46.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Instrument :

BNA_F

ClientSampleId :

S-4-COMP

Tgt Ion: 136 Resp: 605565

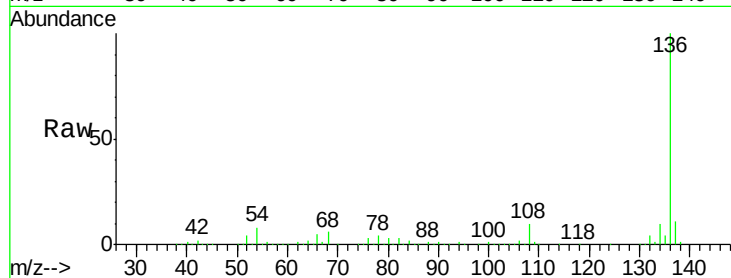
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 7.5 6.6 9.8

68 6.3 5.0 7.4

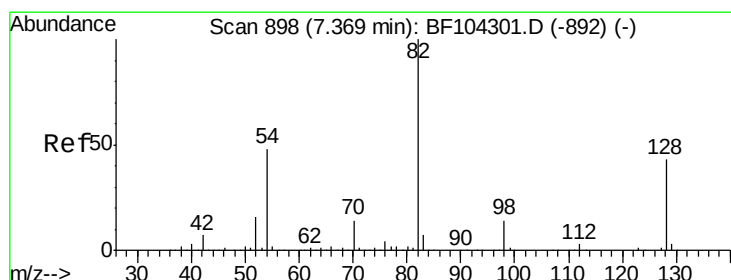
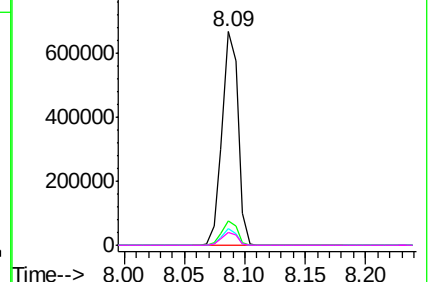
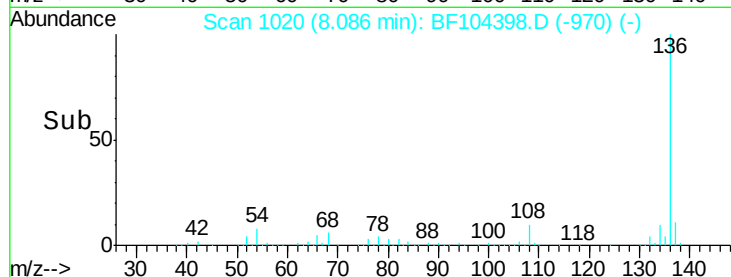


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 100.020 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.00 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

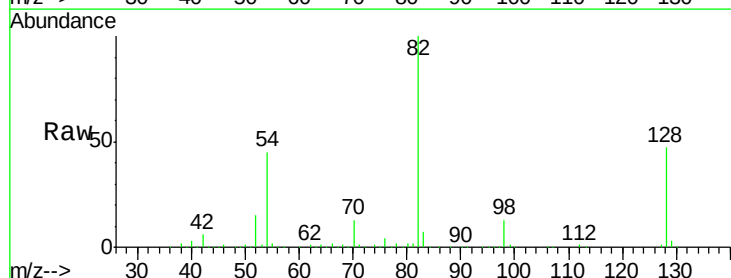
Tgt Ion: 82 Resp: 927573

Ion Ratio Lower Upper

82 100

128 46.7 36.1 54.1

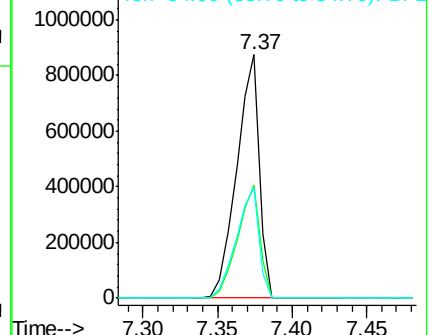
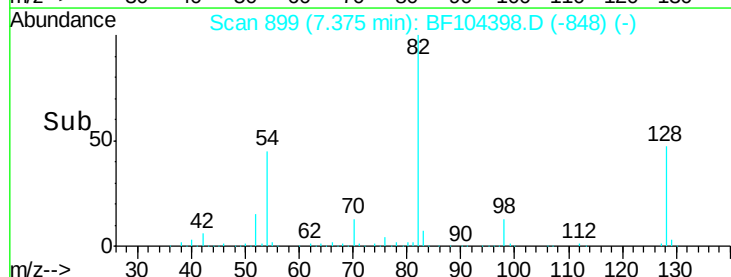
54 45.3 41.4 62.2

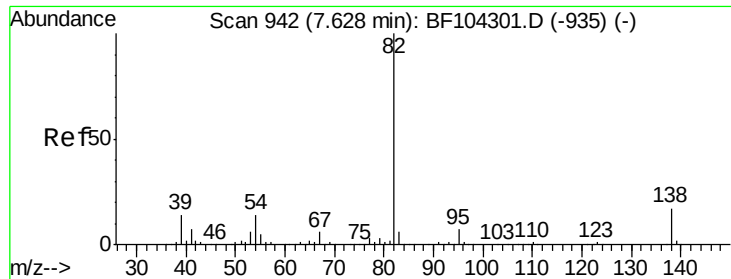


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 47.298 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Instrument :

BNA_F

ClientSampleId :

S-4-COMP

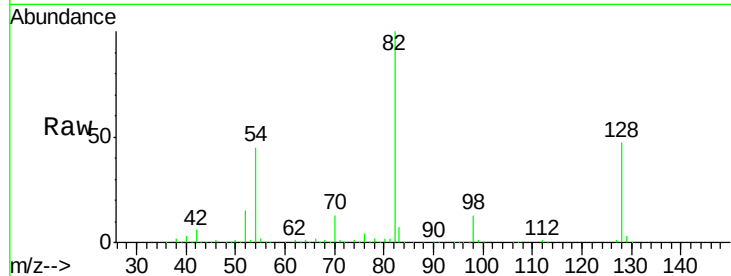
Tgt Ion: 82 Resp: 927563

Ion Ratio Lower Upper

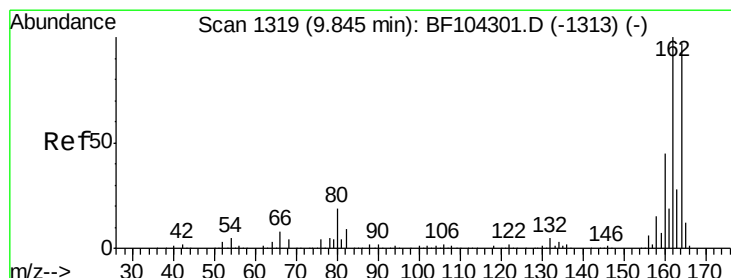
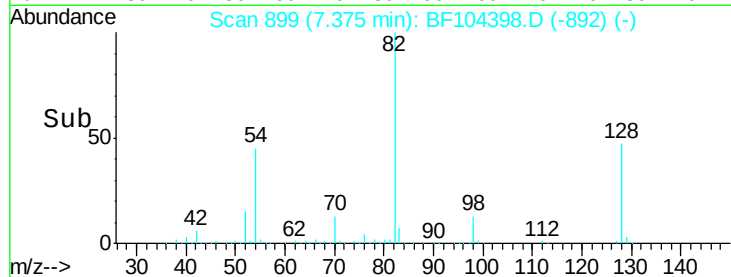
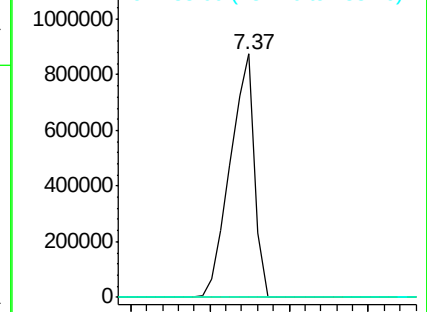
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.84 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

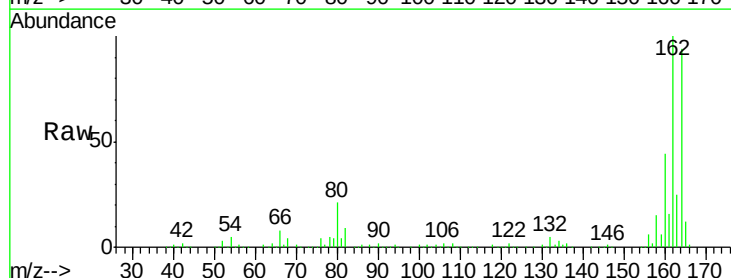
Tgt Ion: 164 Resp: 273208

Ion Ratio Lower Upper

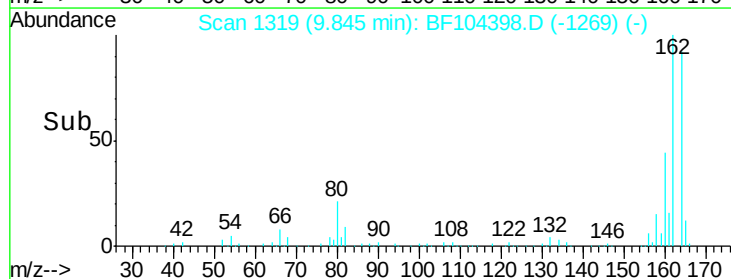
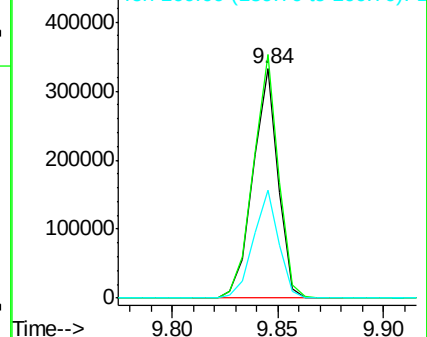
164 100

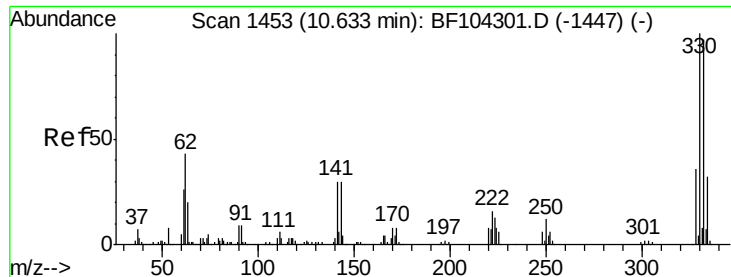
162 106.2 86.1 129.1

160 47.0 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): BF1
Ion 162.00 (161.70 to 162.70): BF1
Ion 160.00 (159.70 to 160.70): BF1

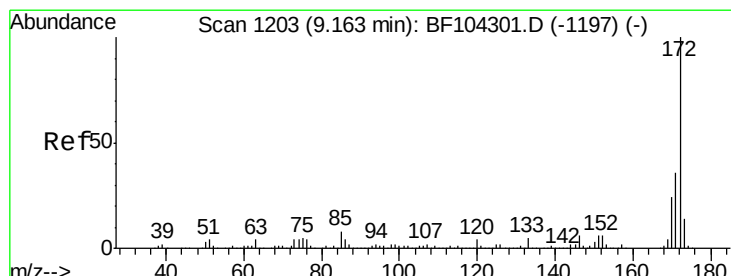
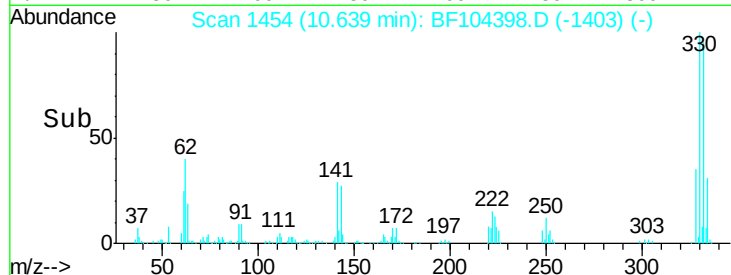
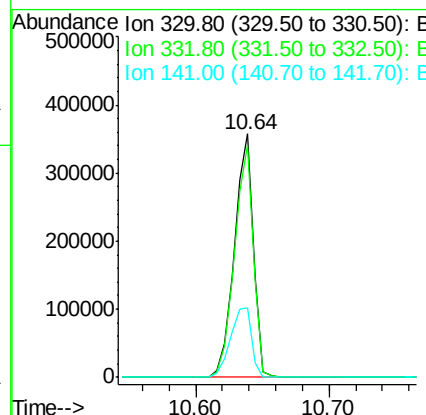
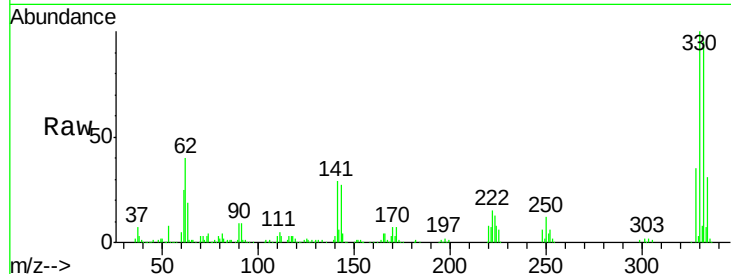




#41
 2,4,6-Tribromophenol
 Concen: 126.601 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.00 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

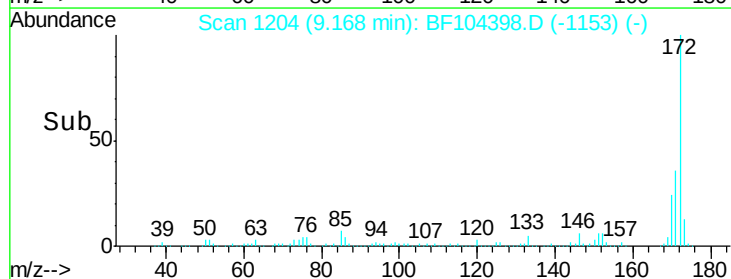
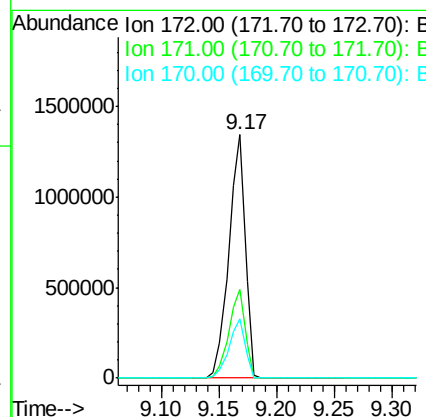
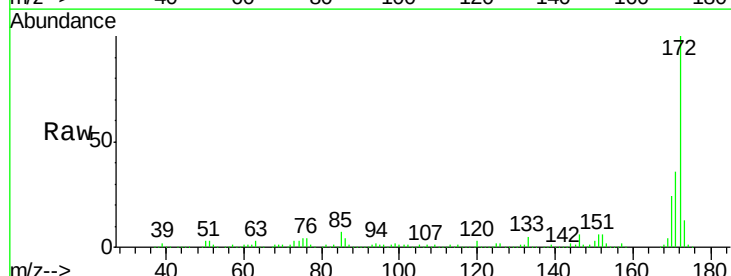
Instrument :
 BNA_F
 ClientSampleId :
 S-4-COMP

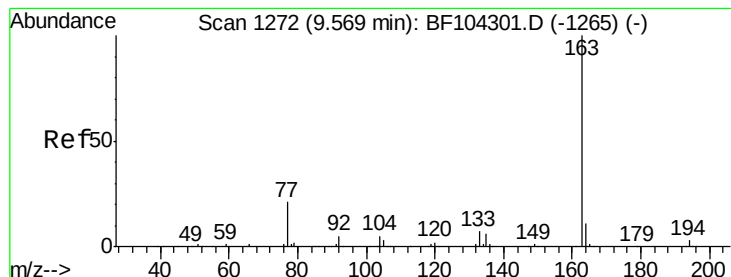
Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.0	115.6
141	32.5	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 76.437 ng
 RT: 9.17 min Scan# 1204
 Delta R.T. -0.00 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.7	44.5
170	24.2	19.6	29.4





#49

Dimethylphthalate

Concen: 9.081 ng

RT: 9.56 min Scan# 1270

Delta R.T. -0.02 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Instrument :

BNA_F

ClientSampleId :

S-4-COMP

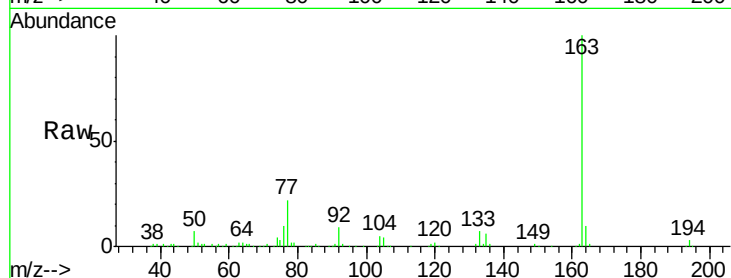
Tgt Ion:163 Resp: 195653

Ion Ratio Lower Upper

163 100

194 3.2 2.7 4.1

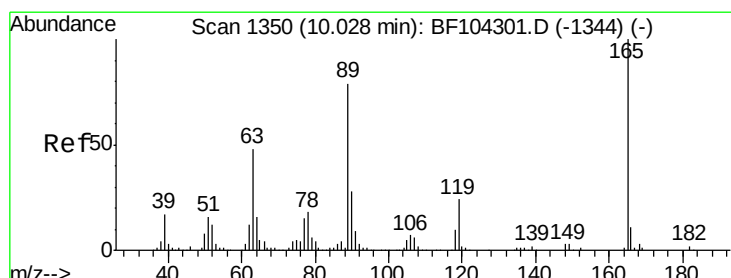
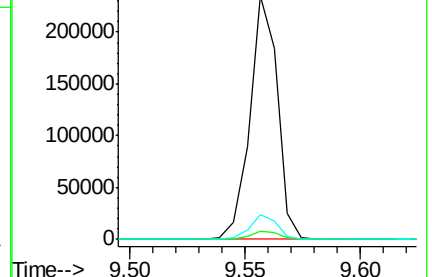
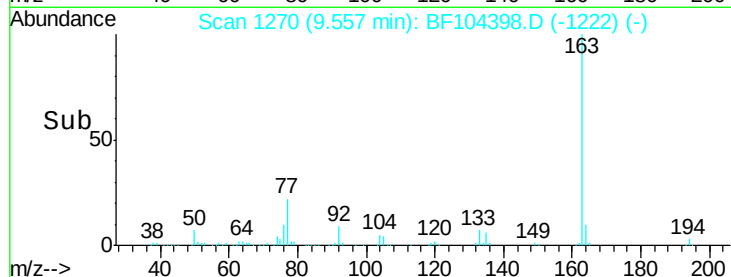
164 10.3 8.2 12.2



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: 3.114 ng

RT: 10.03 min Scan# 1350

Delta R.T. -0.01 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Tgt Ion:165 Resp: 16285

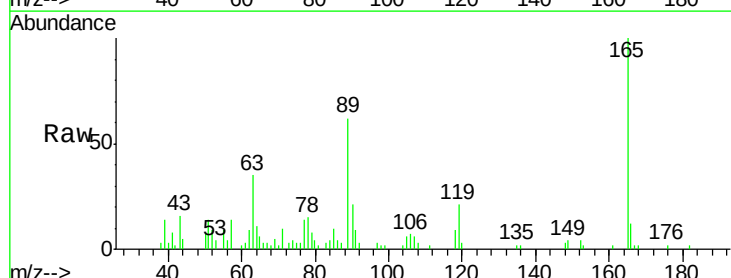
Ion Ratio Lower Upper

165 100

63 34.6 36.4 54.6#

89 61.6 57.8 86.6

182 2.5 1.6 2.4#

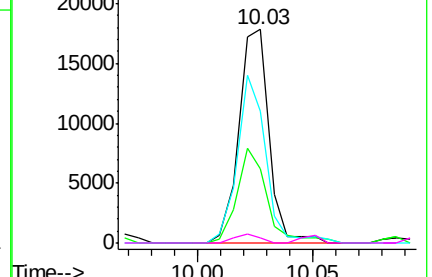
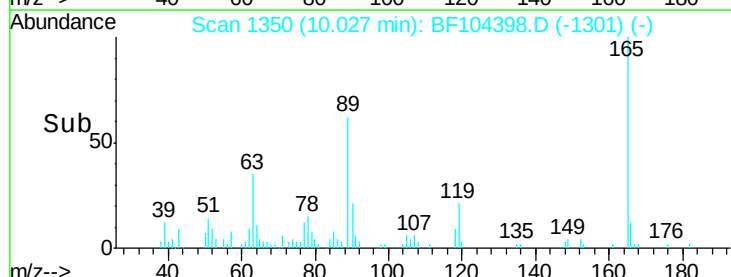


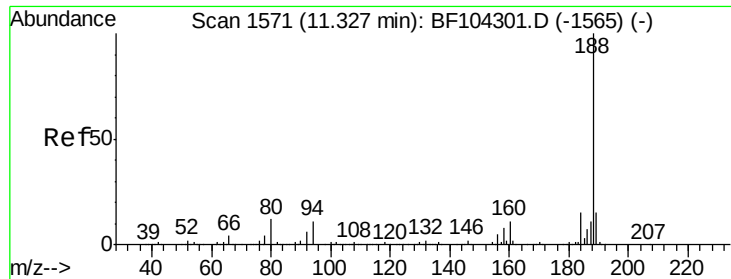
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

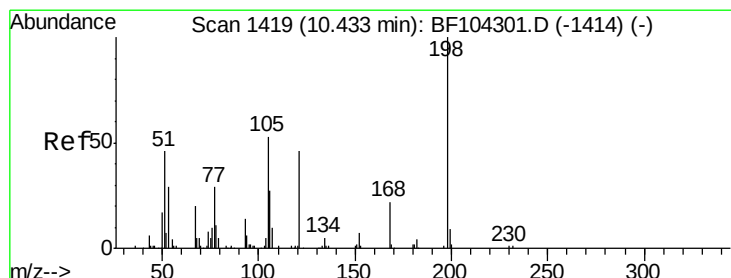
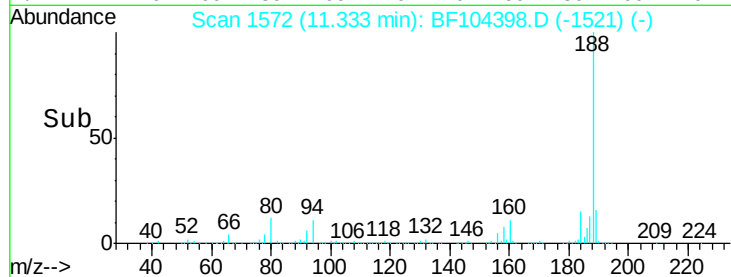
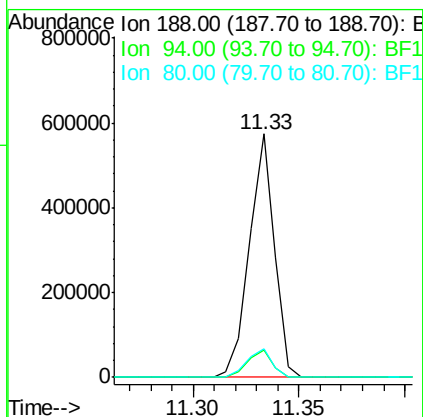
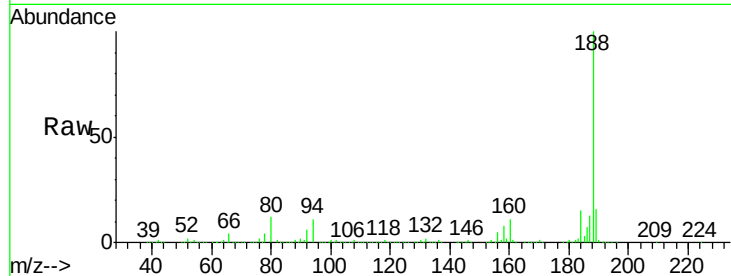




#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

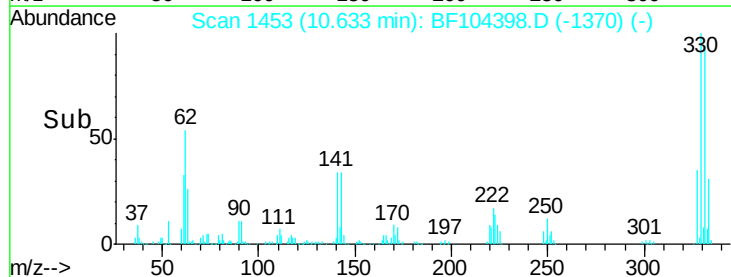
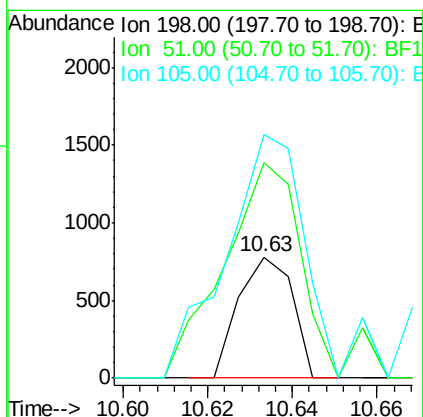
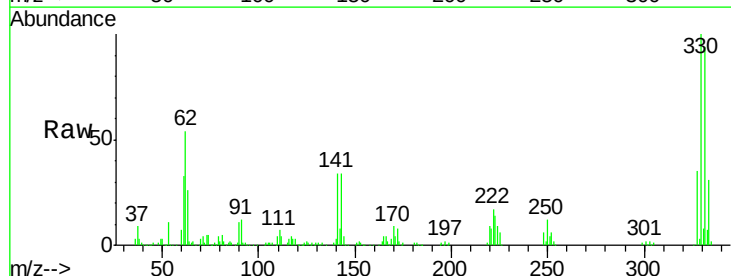
Instrument :
 BNA_F
 ClientSampleId :
 S-4-COMP

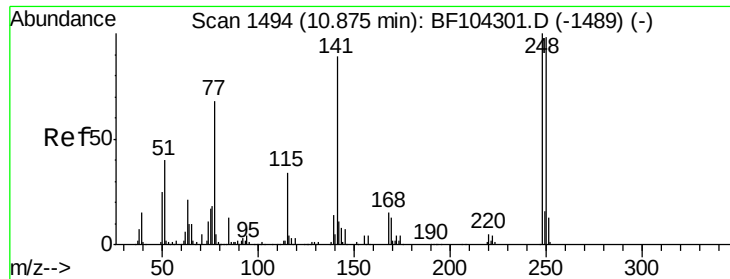
Tgt Ion:188 Resp: 472553
 Ion Ratio Lower Upper
 188 100
 94 11.0 8.5 12.7
 80 11.6 9.2 13.8



#64
 4,6-Dinitro-2-methylphenol
 Concen: 7.601 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. 0.19 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

Tgt Ion:198 Resp: 691
 Ion Ratio Lower Upper
 198 100
 51 177.2 37.7 77.7#
 105 200.8 36.3 76.3#

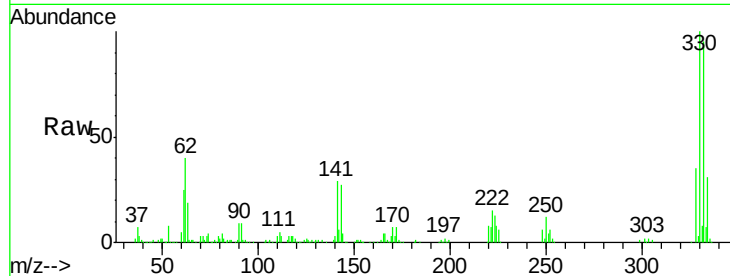




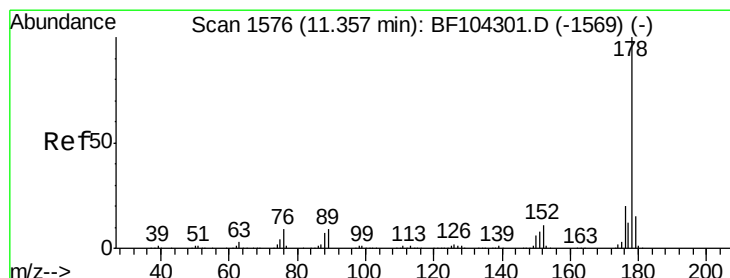
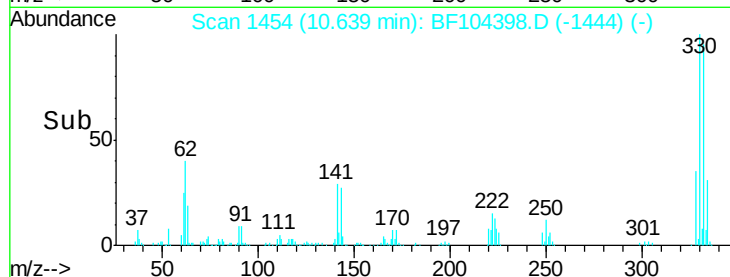
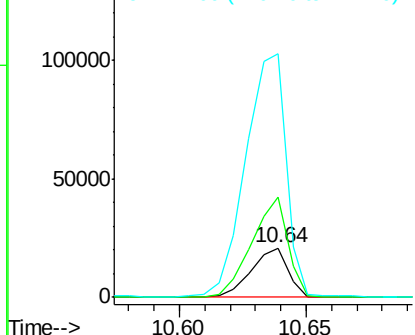
#66
 4-Bromophenyl-phenylether
 Concen: 4.210 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.24 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

Instrument :
 BNA_F
 ClientSampleId :
 S-4-COMP

Tgt Ion:248 Resp: 21162
 Ion Ratio Lower Upper
 248 100
 250 201.4 76.9 115.3#
 141 491.4 74.4 111.6#

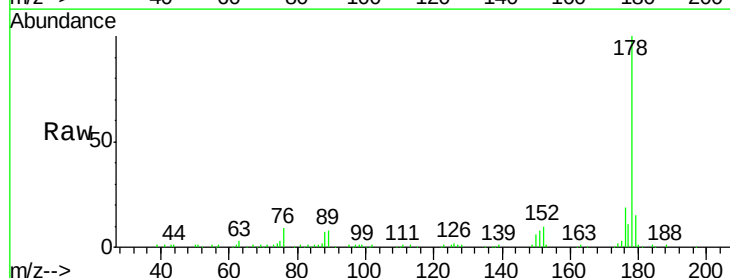


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

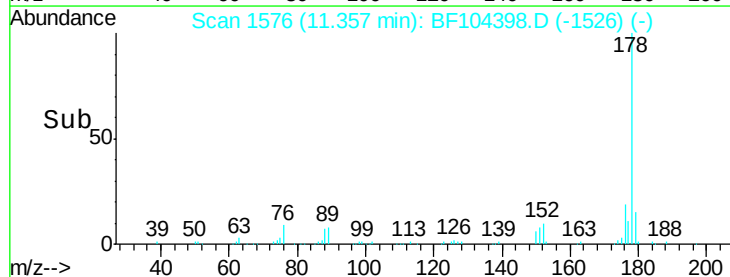
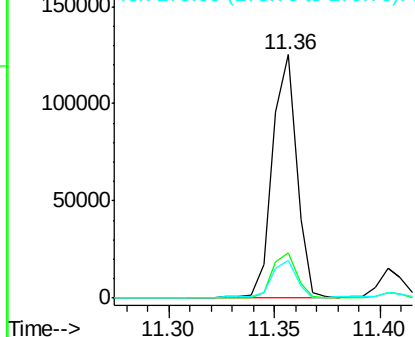


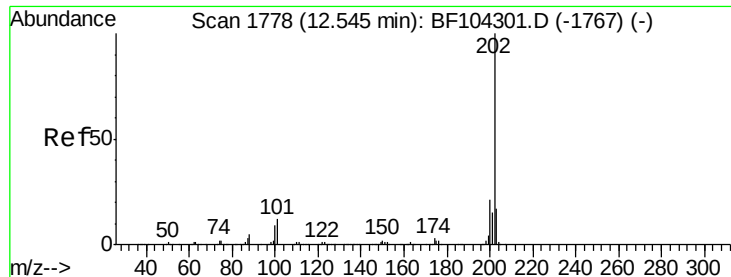
#70
 Phenanthrene
 Concen: 3.836 ng
 RT: 11.36 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

Tgt Ion:178 Resp: 100936
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.8 23.8
 179 15.2 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

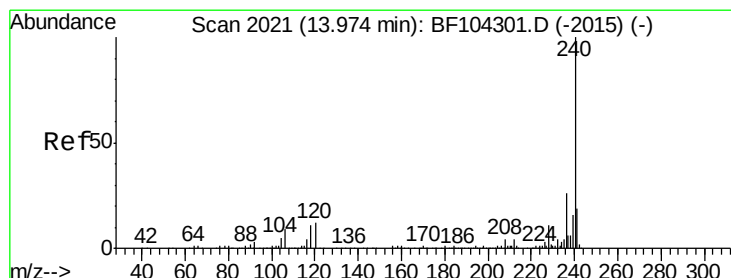
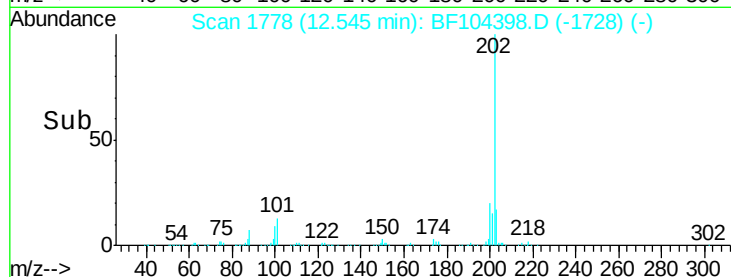
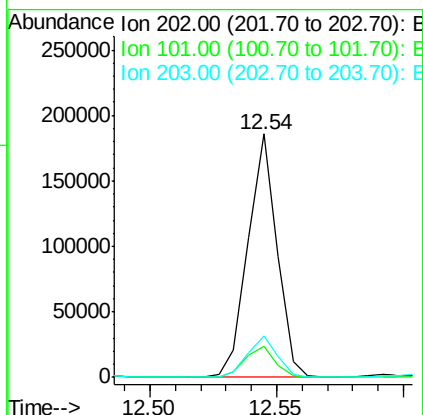
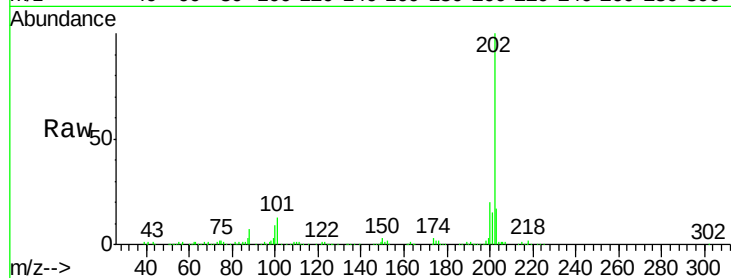




#74
 Fluoranthene
 Concen: 5.386 ng
 RT: 12.54 min Scan# 1778
 Delta R.T. -0.01 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

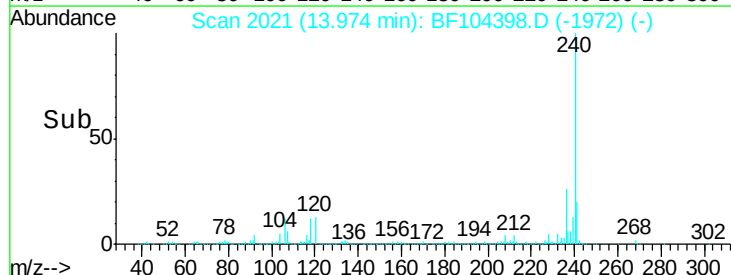
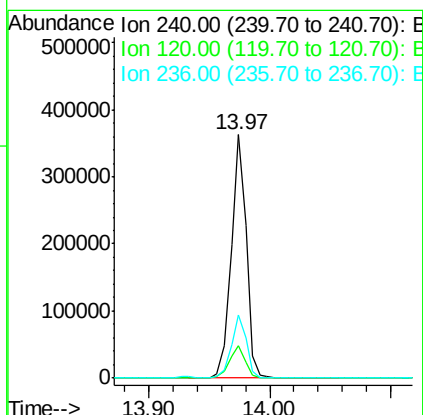
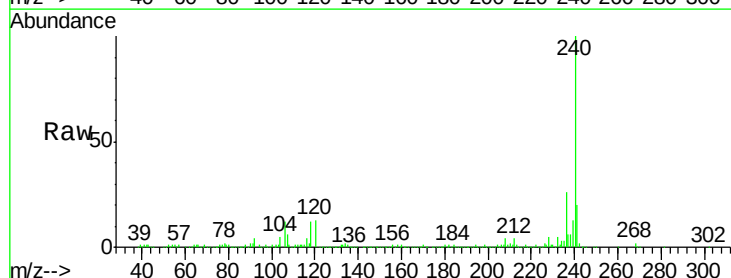
Instrument :
 BNA_F
 ClientSampleId :
 S-4-COMP

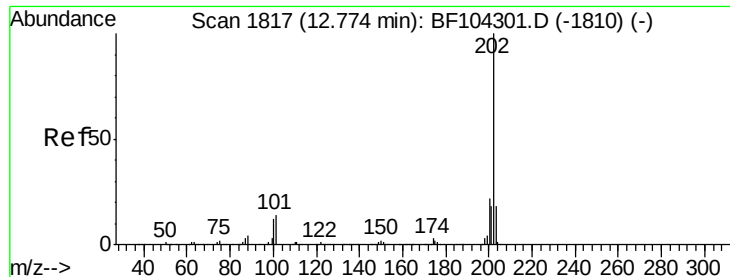
Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	34.1
203	17.0	0.0	38.1



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.97 min Scan# 2021
 Delta R.T. -0.01 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.4	9.5	14.3
236	25.9	20.7	31.1





#77

Pyrene

Concen: 6.412 ng

RT: 12.77 min Scan# 1817

Delta R.T. -0.01 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Instrument :

BNA_F

ClientSampleId :

S-4-COMP

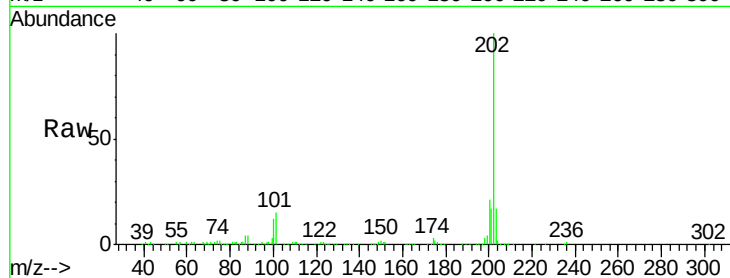
Tgt Ion:202 Resp: 149741

Ion Ratio Lower Upper

202 100

200 21.3 17.4 26.2

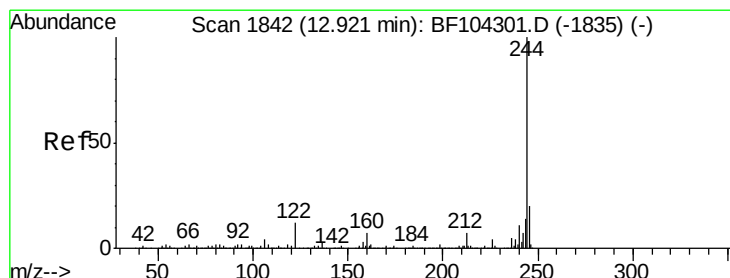
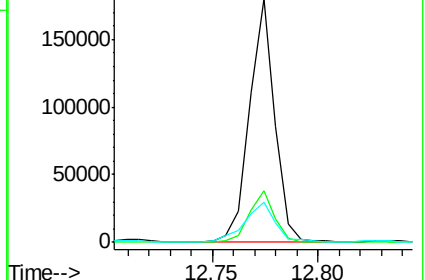
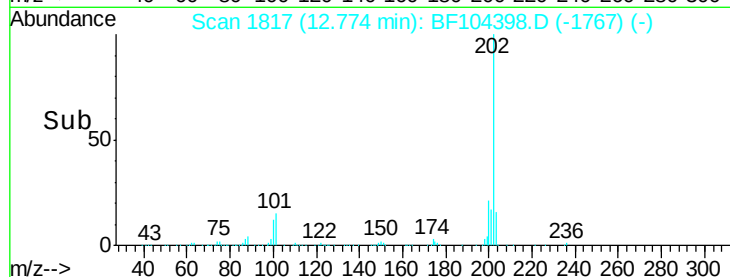
203 16.7 14.3 21.5



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: 80.212 ng

RT: 12.93 min Scan# 1843

Delta R.T. -0.00 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

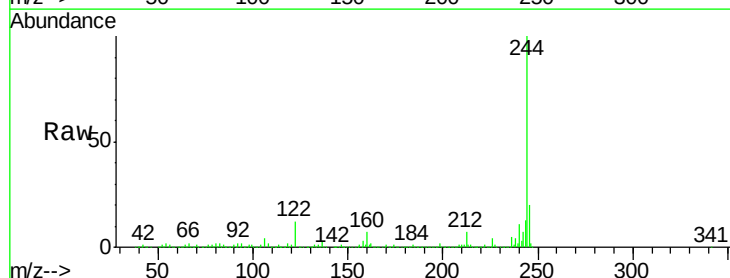
Tgt Ion:244 Resp: 1108522

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

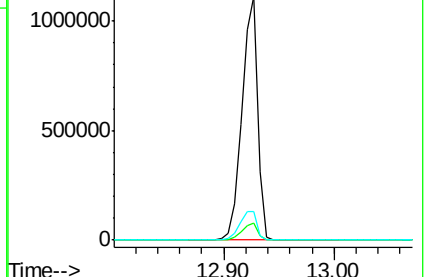
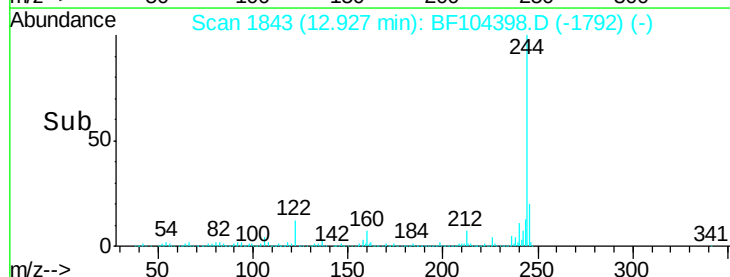
122 11.9 11.0 16.4

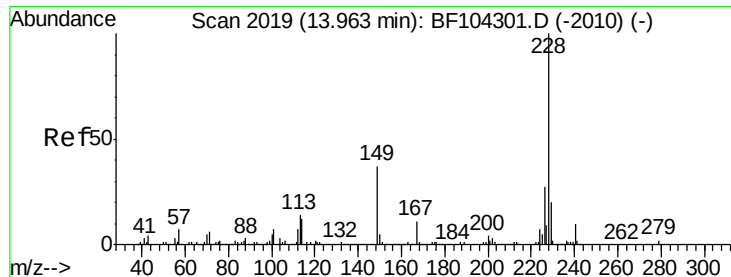


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 4.123 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Instrument :

BNA_F

ClientSampleId :

S-4-COMP

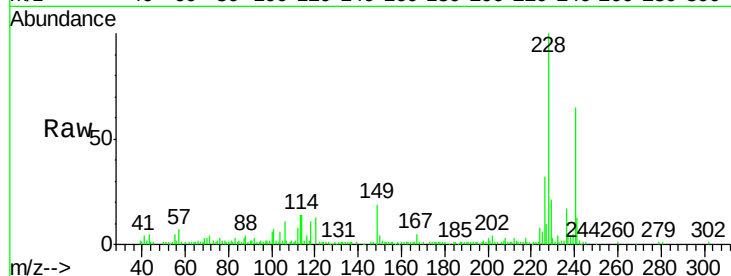
Tgt Ion:228 Resp: 77603

Ion Ratio Lower Upper

228 100

226 31.8 22.6 33.8

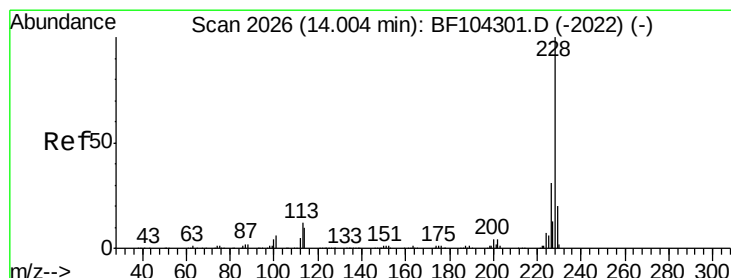
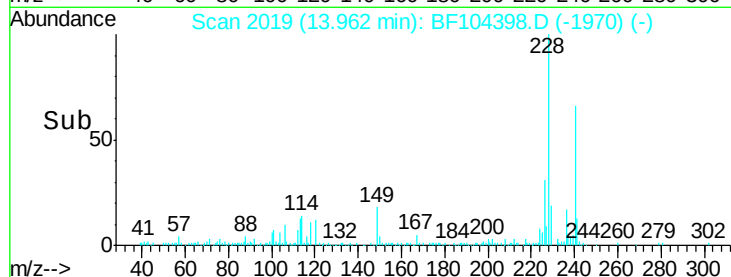
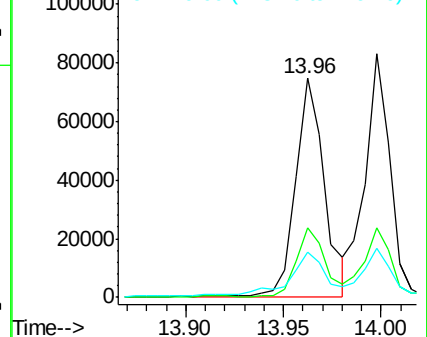
229 20.6 15.8 23.6



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: 3.853 ng

RT: 14.00 min Scan# 2025

Delta R.T. -0.01 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

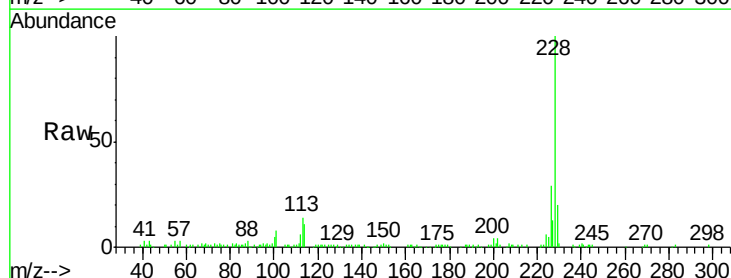
Tgt Ion:228 Resp: 74499

Ion Ratio Lower Upper

228 100

226 28.6 25.0 37.6

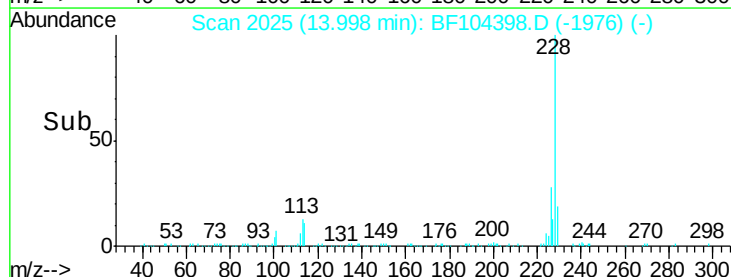
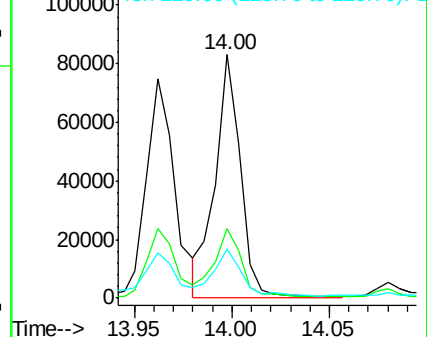
229 20.4 16.2 24.4

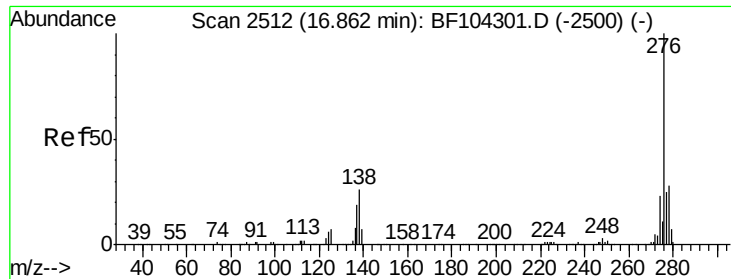


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

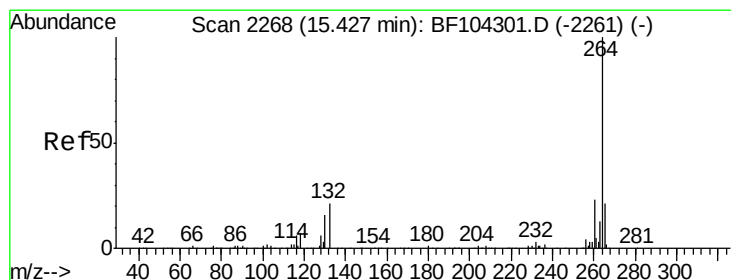
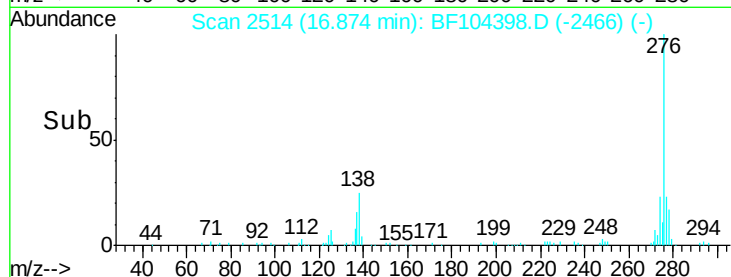
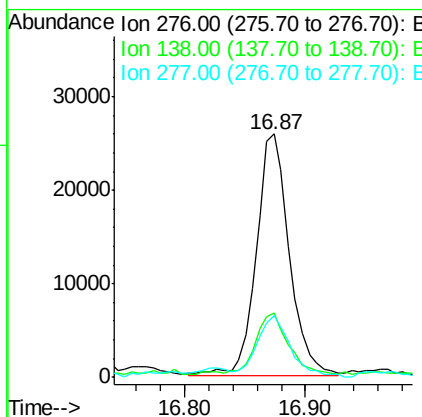
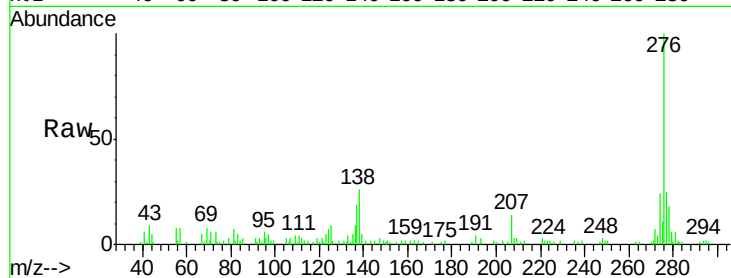




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.001 ng
 RT: 16.87 min Scan# 2514
 Delta R.T. -0.02 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

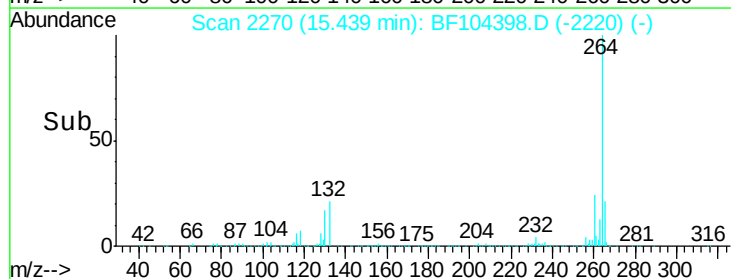
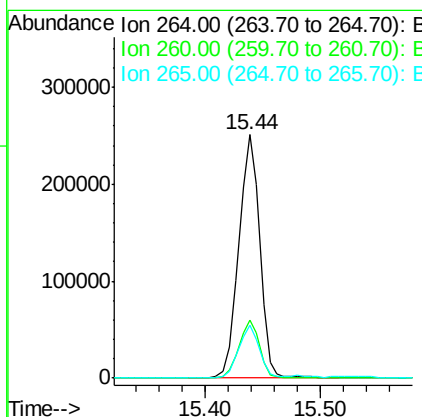
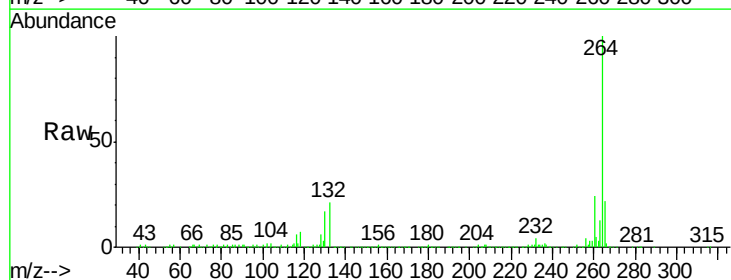
Instrument :
 BNA_F
 ClientSampleId :
 S-4-COMP

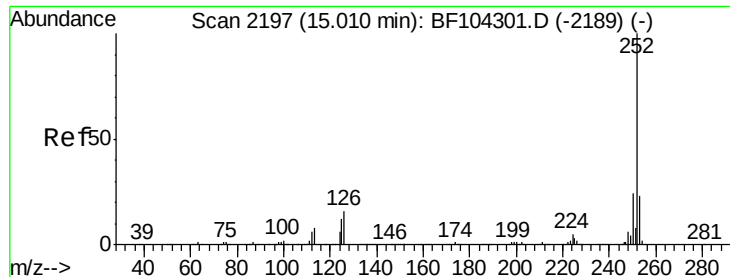
Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.5	25.0	37.6
277	26.3	20.1	30.1



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.44 min Scan# 2270
 Delta R.T. -0.01 min
 Lab File: BF104398.D
 Acq: 10 Apr 2018 10:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	21.6	17.5	26.3

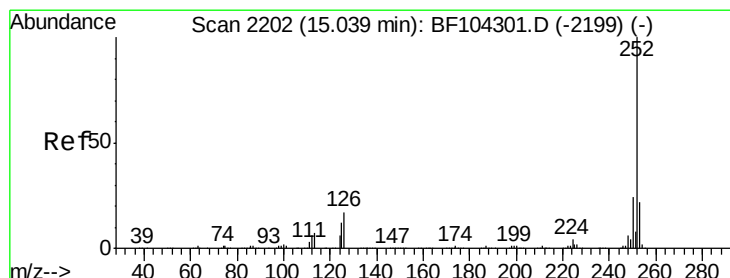
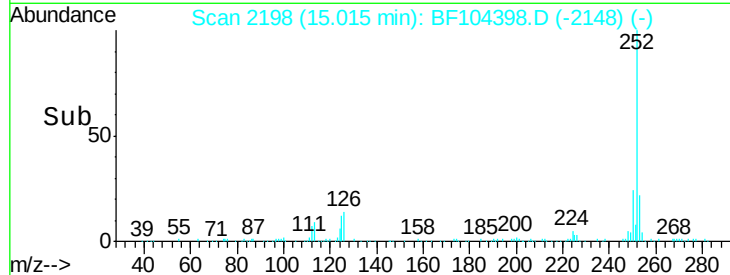
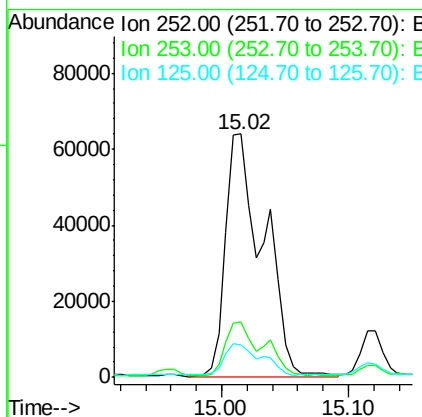
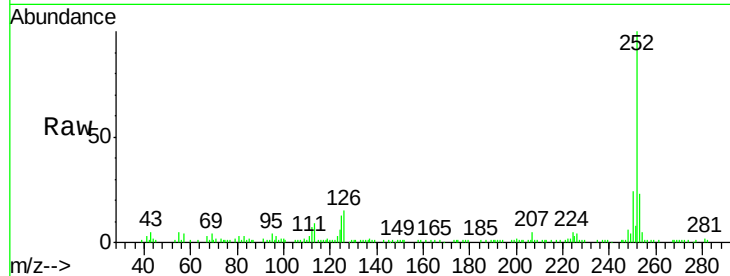




#87
Benzo(b)fluoranthene
Concen: 6.714 ng
RT: 15.02 min Scan# 2198
Delta R.T. -0.01 min
Lab File: BF104398.D
Acq: 10 Apr 2018 10:10

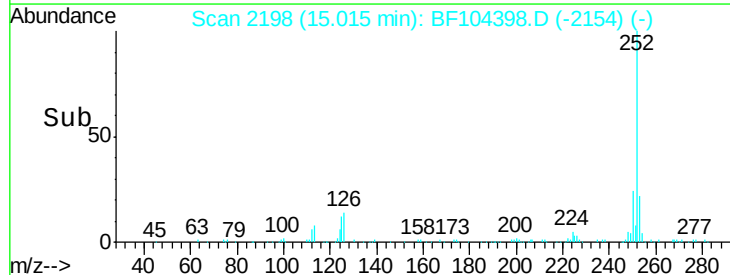
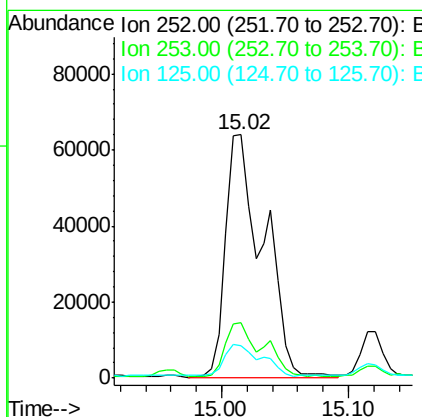
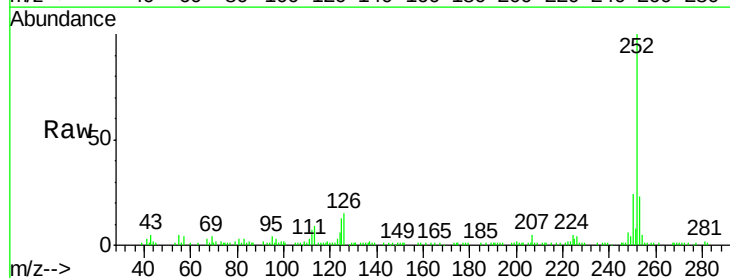
Instrument :
BNA_F
ClientSampleId :
S-4-COMP

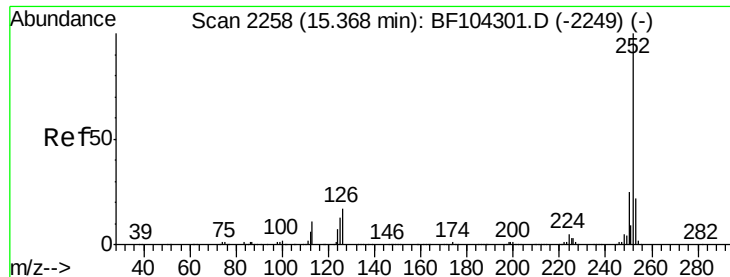
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	13.2	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 7.111 ng
RT: 15.02 min Scan# 2198
Delta R.T. -0.04 min
Lab File: BF104398.D
Acq: 10 Apr 2018 10:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	13.2	10.2	15.2





#89

Benzo(a)pyrene

Concen: 3.671 ng

RT: 15.37 min Scan# 2259

Delta R.T. -0.01 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

Instrument :

BNA_F

ClientSampleId :

S-4-COMP

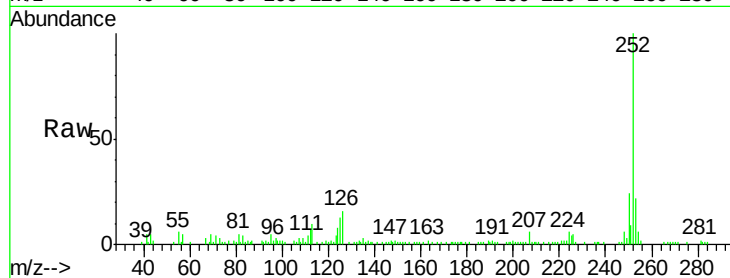
Tgt Ion:252 Resp: 65598

Ion Ratio Lower Upper

252 100

253 21.8 17.1 25.7

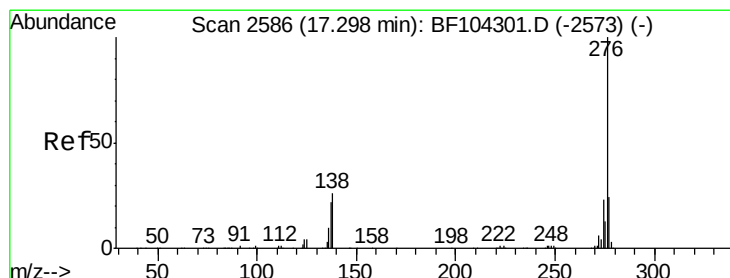
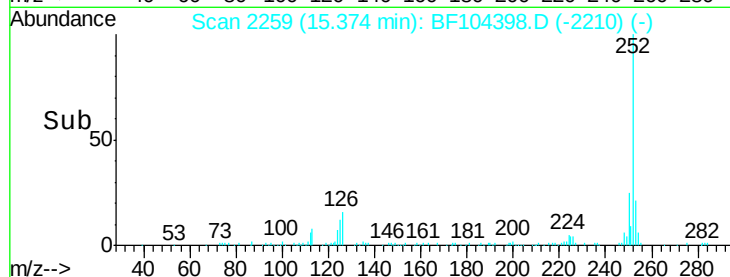
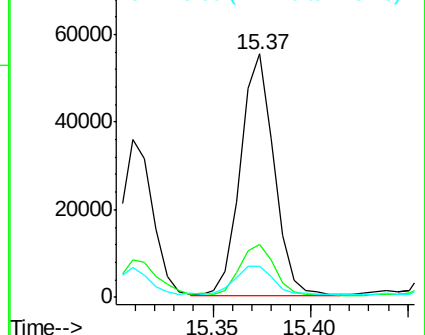
125 12.8 9.8 14.6



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: 3.437 ng

RT: 17.31 min Scan# 2588

Delta R.T. -0.03 min

Lab File: BF104398.D

Acq: 10 Apr 2018 10:10

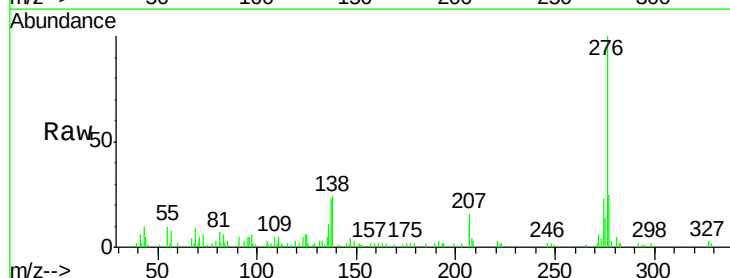
Tgt Ion:276 Resp: 48872

Ion Ratio Lower Upper

276 100

277 25.2 17.9 26.9

138 24.2 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

