

Data Path : Z:\HPCHEM1\BNA F\Data\BF032116\
 Data File : BF085657.D
 Acq On : 22 Mar 2016 9:53
 Operator : UM/SJ
 Sample : H1815-10DL 5X
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 22 11:47:41 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 23:31:39 2016
 Response via : Initial Calibration

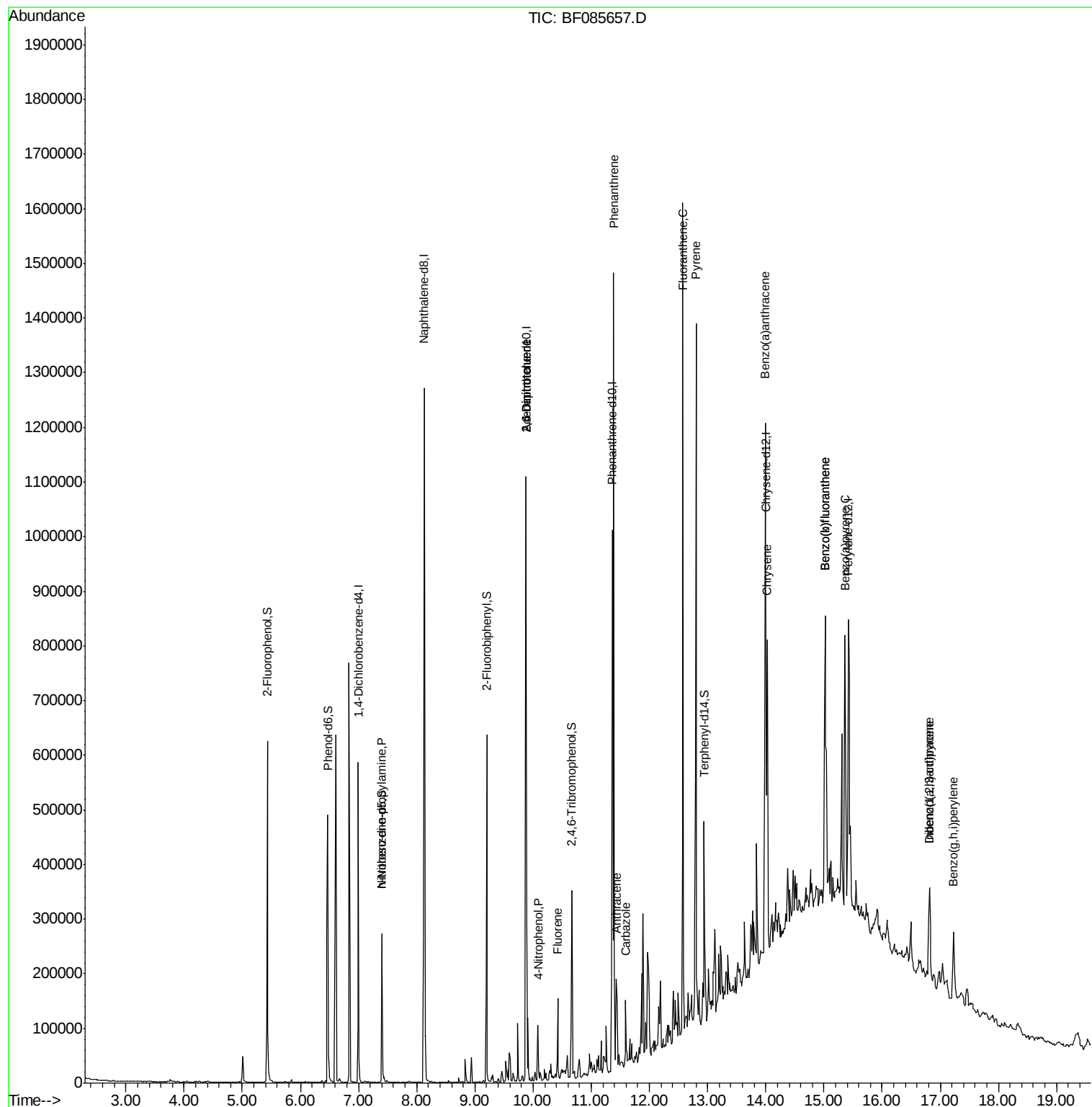
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.00	152	87928	20.00	ng	0.14
21) Naphthalene-d8	8.13	136	557037	20.00	ng	-0.01
38) Acenaphthene-d10	9.88	164	215564	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	345687	20.00	ng	-0.02
75) Chrysene-d12	14.00	240	272332	20.00	ng	-0.01
86) Perylene-d12	15.42	264	285955	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	188791	36.06	ng	-0.02
7) Phenol-d6	6.47	99	228175	33.98	ng	-0.02
23) Nitrobenzene-d5	7.40	82	130642	13.61	ng	-0.03
41) 2,4,6-Tribromophenol	10.66	330	32932	15.60	ng	-0.02
44) 2-Fluorobiphenyl	9.20	172	202846	12.14	ng	-0.02
78) Terphenyl-d14	12.94	244	103159	9.12	ng	-0.02
Target Compounds						
9) Benzaldehyde	6.61	77	4245	Below Cal		Qvalue 89
19) n-Nitroso-di-n-propylamine	7.40	70	16959	4.23 ng	#	80
50) 2,6-Dinitrotoluene	9.88	165	28531	8.31 ng	#	19
55) 4-Nitrophenol	10.08	139	13524	4.07 ng	#	13
56) 2,4-Dinitrotoluene	9.88	165	28531	6.35 ng	#	37
57) Fluorene	10.42	166	41694	2.98 ng		98
70) Phenanthrene	11.39	178	505199	27.72 ng		99
71) Anthracene	11.43	178	99902	5.23 ng		99
72) Carbazole	11.59	167	43357	2.63 ng		100
74) Fluoranthene	12.57	202	576009	30.18 ng		94
77) Pyrene	12.80	202	527856	26.99 ng		100
80) Benzo(a)anthracene	13.99	228	253856	16.06 ng		94
82) Chrysene	14.03	228	235955	15.51 ng		97
85) Indeno(1,2,3-cd)pyrene	16.81	276	107981	8.50 ng		94
87) Benzo(b)fluoranthene	15.02	252	397564	21.31 ng		99
88) Benzo(k)fluoranthene	15.02	252	397564	25.86 ng	#	96
89) Benzo(a)pyrene	15.36	252	214921	13.59 ng		98
90) Dibenzo(a,h)anthracene	16.81	278	32813	2.49 ng	#	76
91) Benzo(a,h,i)perylene	17.23	276	100361	7.86 ng		98

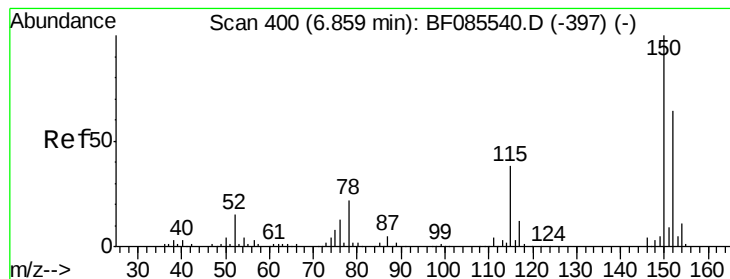
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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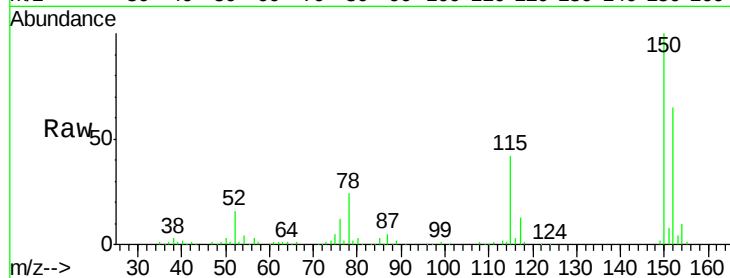


#1

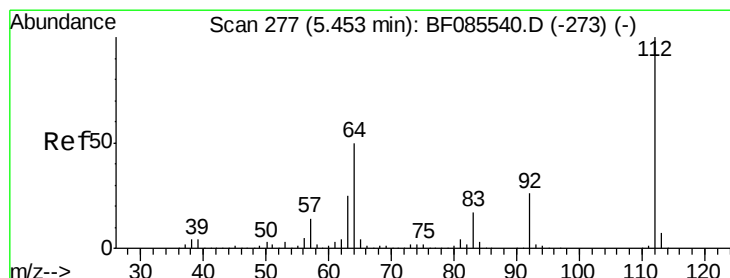
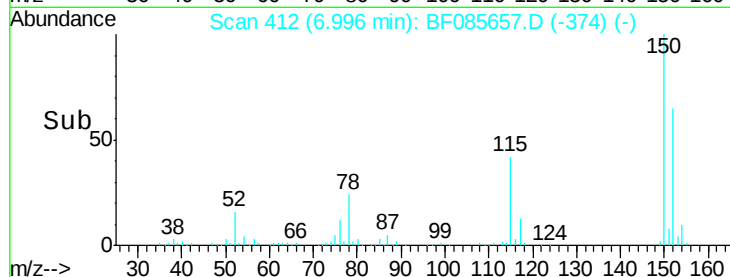
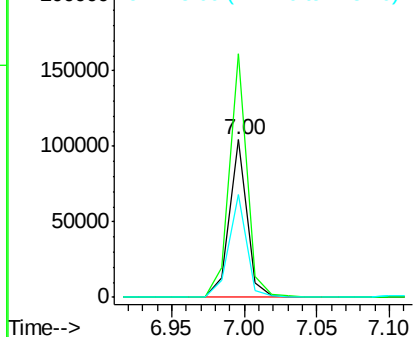
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.00 min Scan# 412
Delta R.T. 0.14 min
Lab File: BF085657.D
Acq: 22 Mar 2016 9:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 87928
Ion Ratio Lower Upper
152 100
150 154.7 124.2 186.2
115 65.5 47.0 70.6



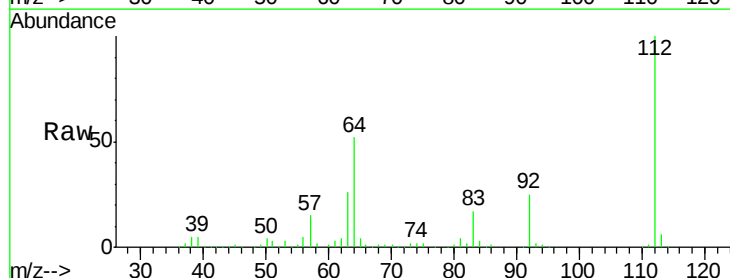
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



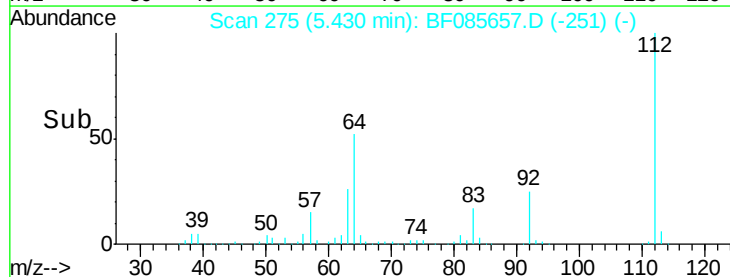
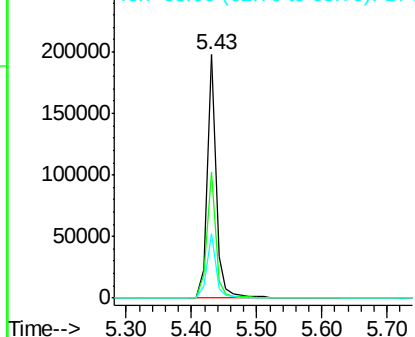
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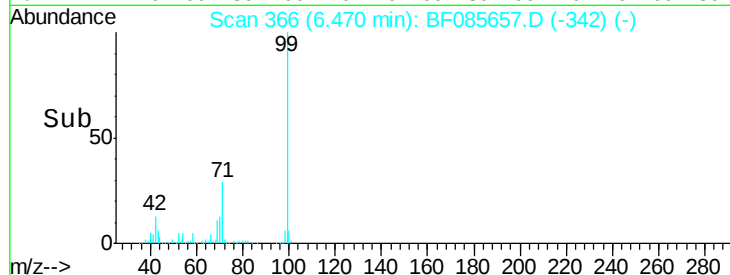
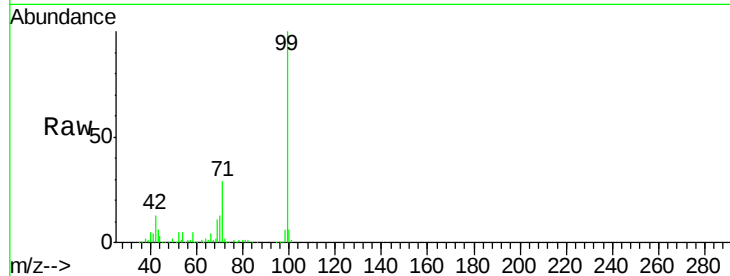
2-Fluorophenol
Concen: 36.06 ng
RT: 5.43 min Scan# 275
Delta R.T. -0.02 min
Lab File: BF085657.D
Acq: 22 Mar 2016 9:53

Tgt Ion:112 Resp: 188791
Ion Ratio Lower Upper
112 100
64 51.9 39.9 59.9
63 26.3 20.2 30.2



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: 33.98 ng

RT: 6.47 min Scan# 366

Delta R.T. -0.02 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

Instrument :

BNA_F

ClientSampled :

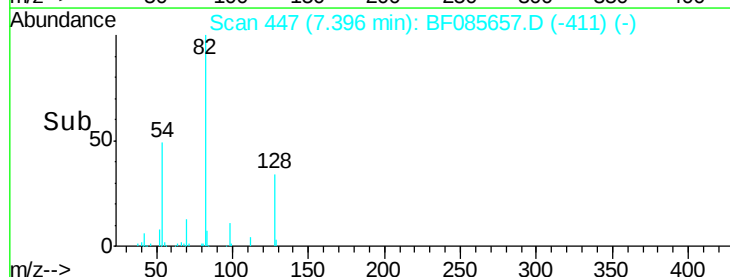
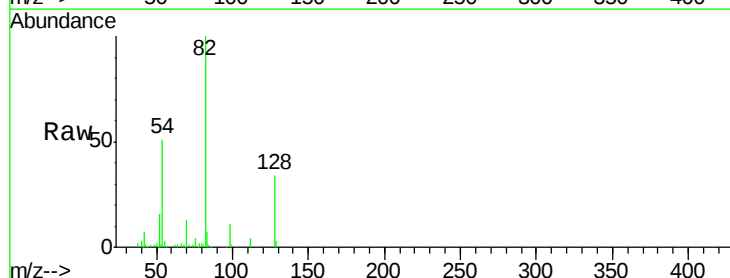
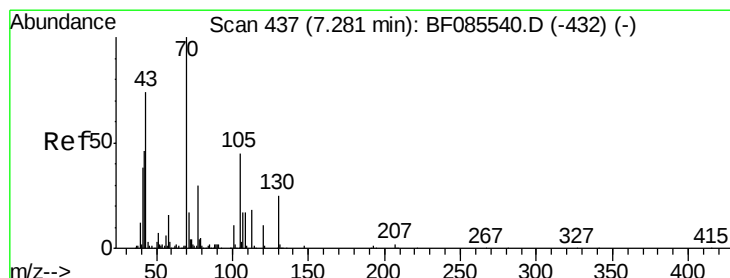
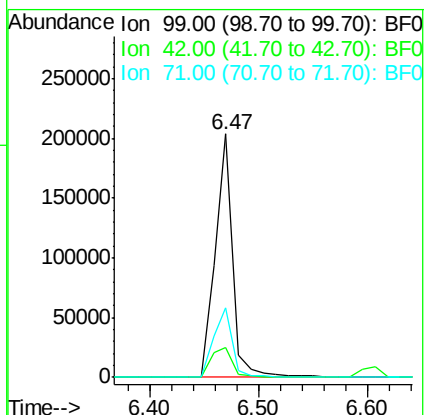
Tot Ion: 99 Resp: 228175

Ion Ratio Lower Upper

99 100

42 12.5 11.1 16.7

71 28.7 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 4.23 ng

RT: 7.40 min Scan# 447

Delta R.T. 0.11 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

Tgt Ion: 70 Resp: 16959

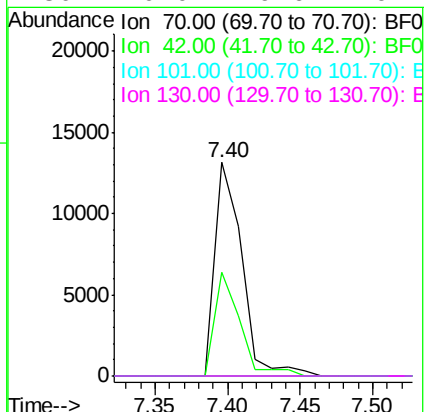
Ion Ratio Lower Upper

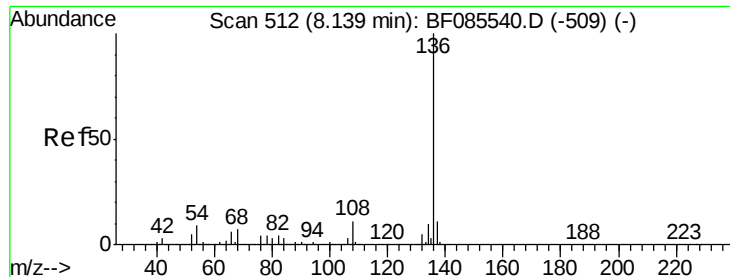
70 100

42 48.6 37.1 55.7

101 0.0 8.6 12.8#

130 0.0 19.6 29.4#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 511

Delta R.T. -0.01 min

Lab File: BF085657.D

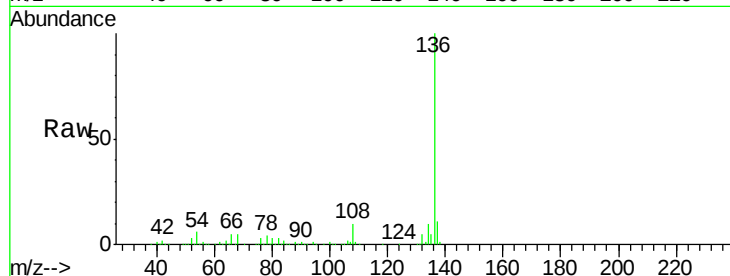
Acq: 22 Mar 2016 9:53

Instrument :

BNA_F

ClientSampled :

Tot Ion:136	Resp:	557037
Ion Ratio	Lower	Upper
136	100	
137	11.0	9.1 13.7
54	6.1	7.4 11.0#
68	5.4	5.8 8.8#

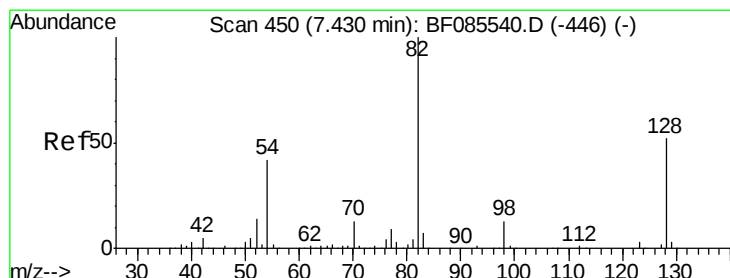
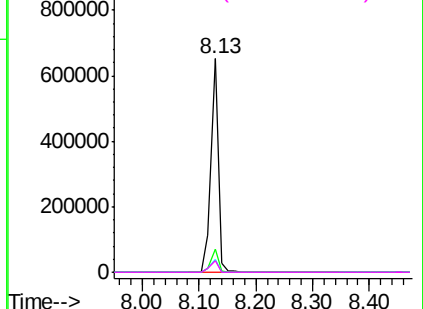
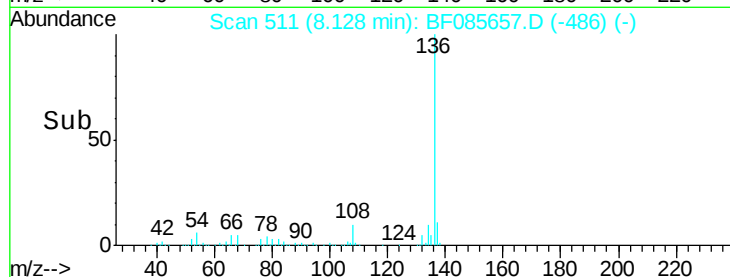


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.61 ng

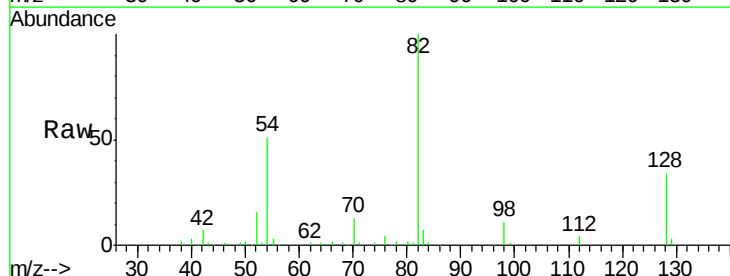
RT: 7.40 min Scan# 447

Delta R.T. -0.03 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

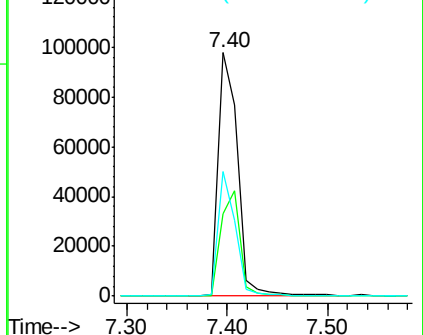
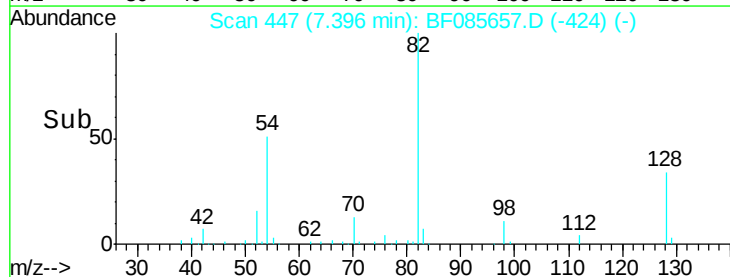
Tgt Ion: 82	Resp:	130642
Ion Ratio	Lower	Upper
82	100	
128	33.9	41.8 62.8#
54	51.4	33.4 50.0#

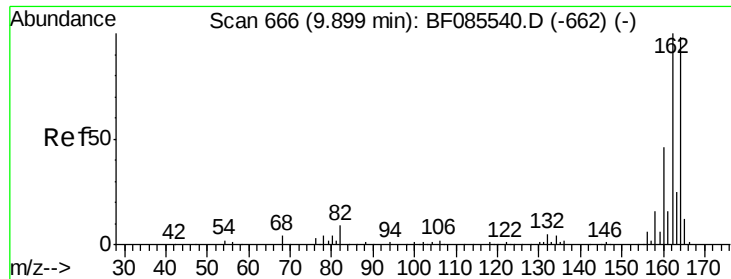


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

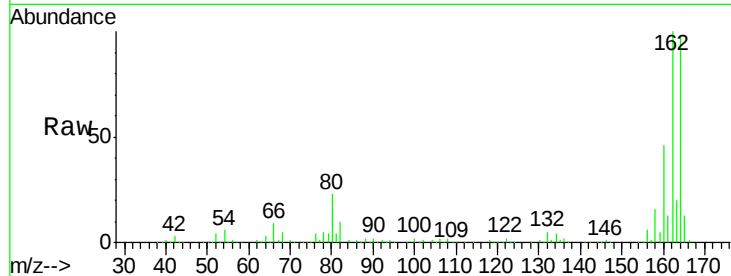




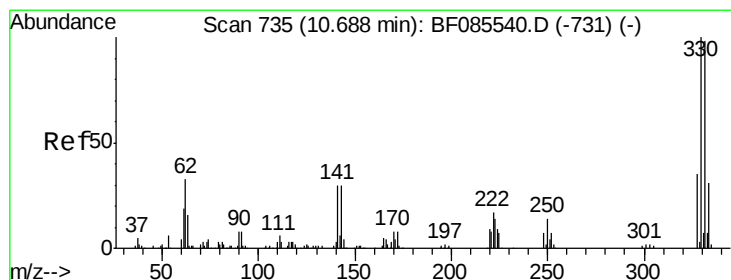
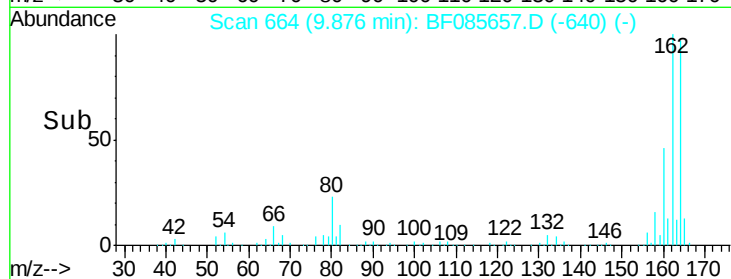
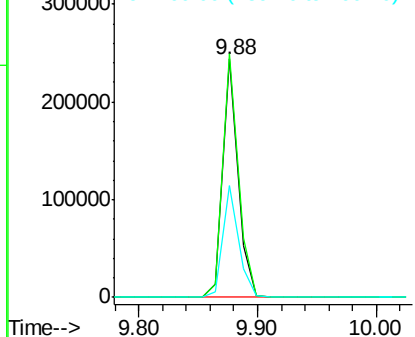
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.88 min Scan# 664
 Delta R.T. -0.02 min
 Lab File: BF085657.D
 Acq: 22 Mar 2016 9:53

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 215564
 Ion Ratio Lower Upper
 164 100
 162 102.2 82.1 123.1
 160 46.9 37.4 56.2

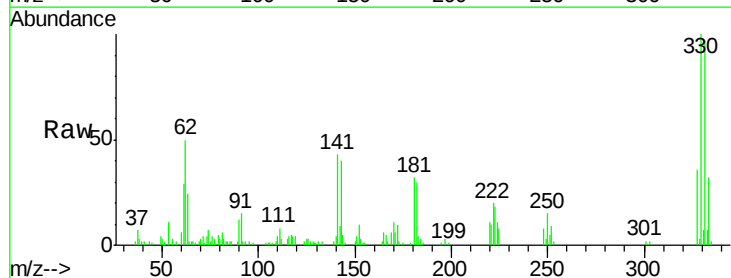


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

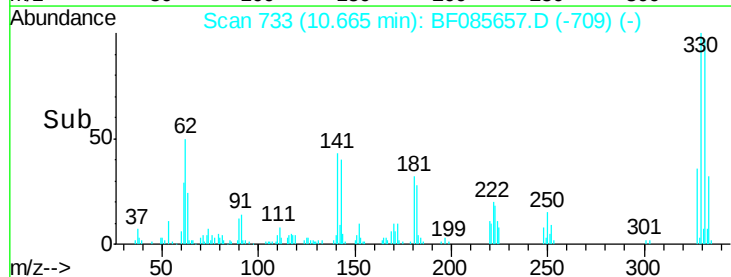
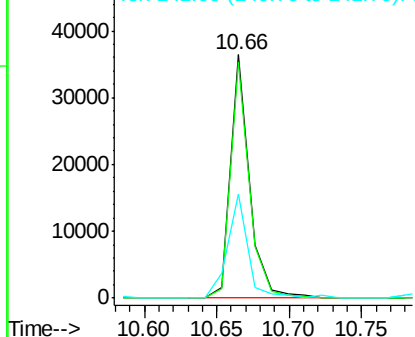


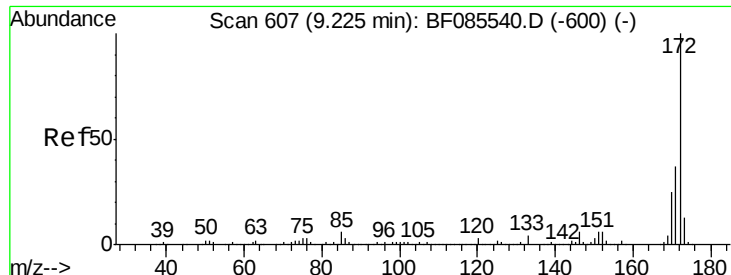
#41
 2,4,6-Tribromophenol
 Concen: 15.60 ng
 RT: 10.66 min Scan# 733
 Delta R.T. -0.02 min
 Lab File: BF085657.D
 Acq: 22 Mar 2016 9:53

Tgt Ion:330 Resp: 32932
 Ion Ratio Lower Upper
 330 100
 332 96.3 78.2 117.2
 141 46.2 31.5 47.3



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

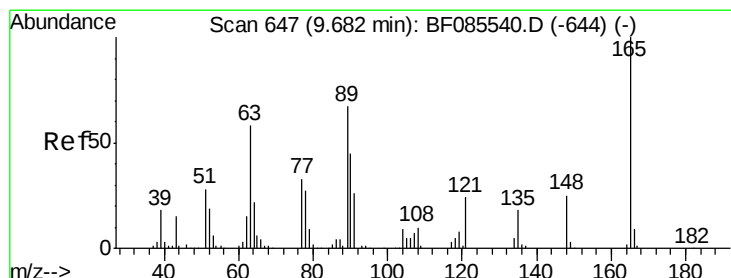
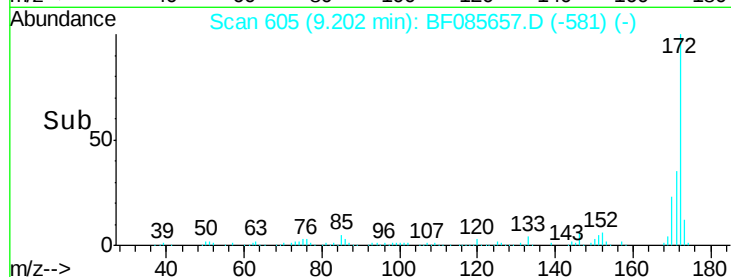
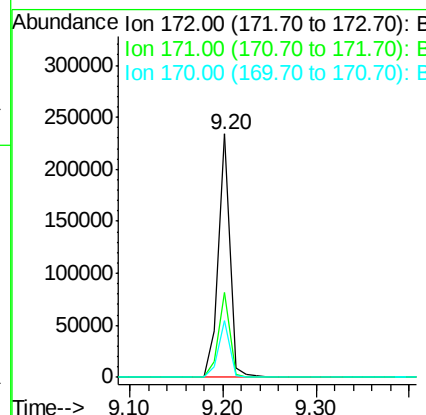
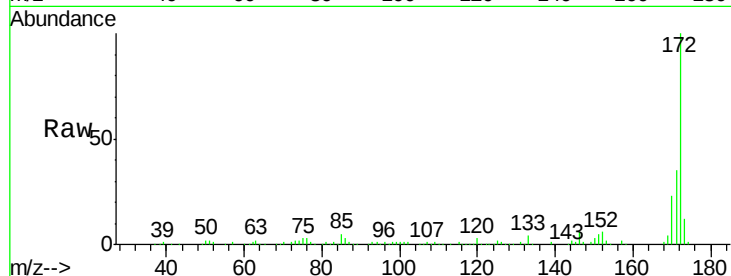




#44
2-Fluorobiphenyl
Concen: 12.14 ng
RT: 9.20 min Scan# 605
Delta R.T. -0.02 min
Lab File: BF085657.D
Acq: 22 Mar 2016 9:53

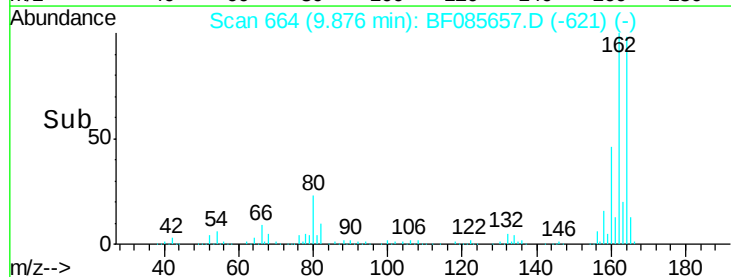
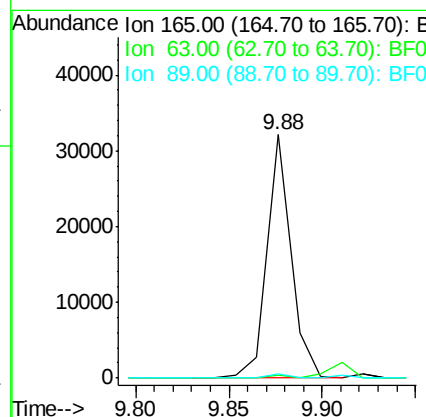
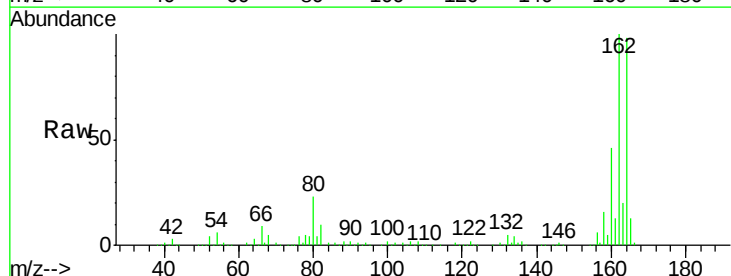
Instrument :
BNA_F
ClientSampleId :

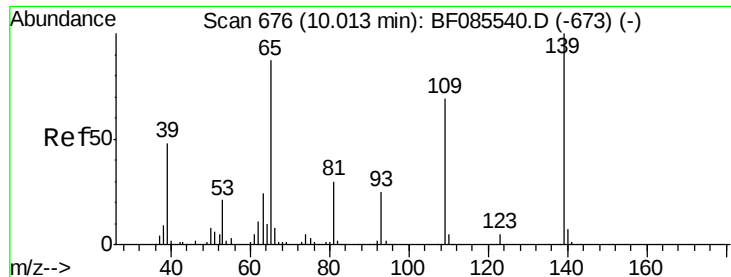
Tot Ion:172 Resp: 202846
Ion Ratio Lower Upper
172 100
171 35.0 29.4 44.2
170 23.1 19.8 29.6



#50
2,6-Dinitrotoluene
Concen: 8.31 ng
RT: 9.88 min Scan# 664
Delta R.T. 0.19 min
Lab File: BF085657.D
Acq: 22 Mar 2016 9:53

Tgt Ion:165 Resp: 28531
Ion Ratio Lower Upper
165 100
63 1.4 51.8 77.8#
89 1.7 53.7 80.5#

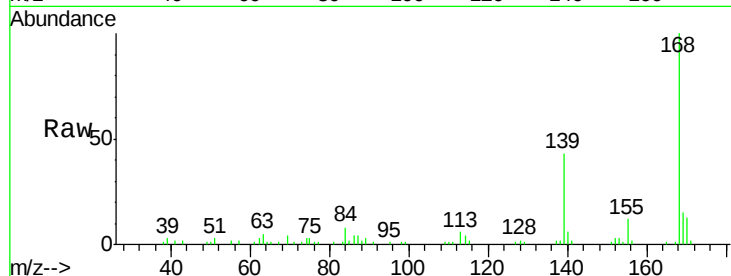




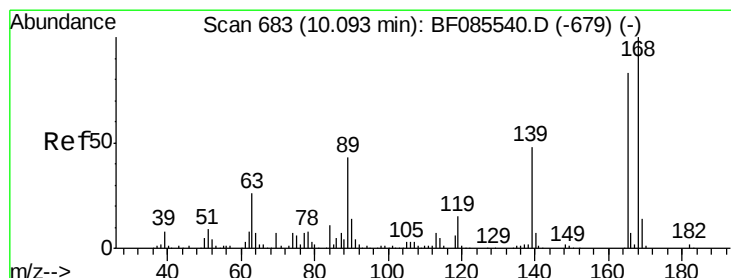
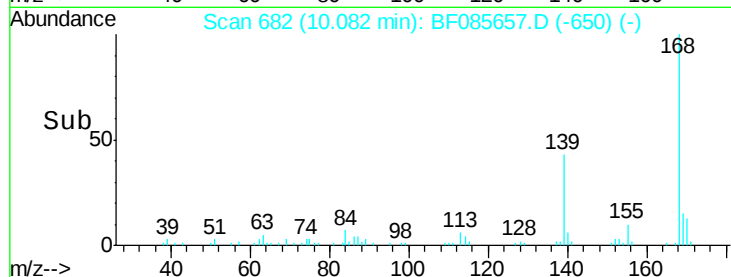
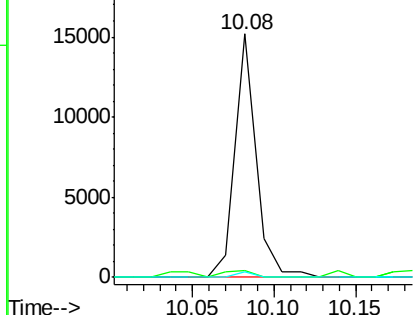
#55
4-Nitrophenol
Concen: 4.07 ng
RT: 10.08 min Scan# 682
Delta R.T. 0.07 min
Lab File: BF085657.D
Acq: 22 Mar 2016 9:53

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
139	100		
109	2.6	49.2	89.2#
65	2.1	66.9	106.9#



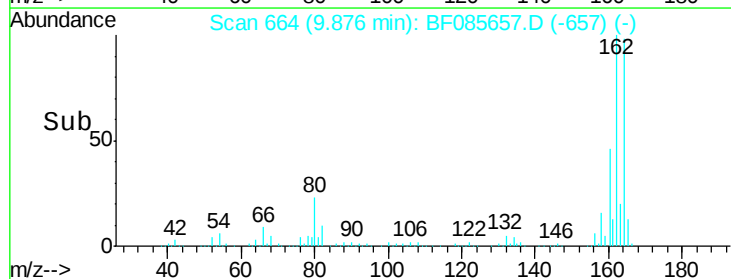
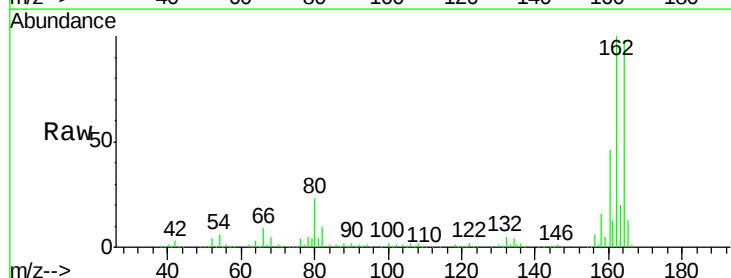
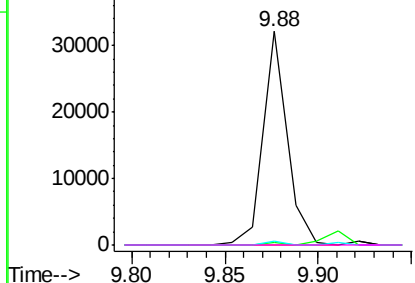
Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

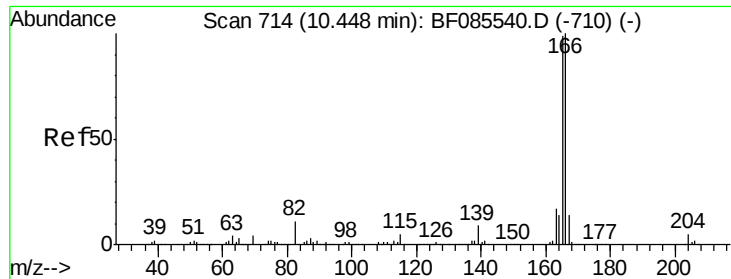


#56
2,4-Dinitrotoluene
Concen: 6.35 ng
RT: 9.88 min Scan# 664
Delta R.T. -0.22 min
Lab File: BF085657.D
Acq: 22 Mar 2016 9:53

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.4	24.9	37.3#
89	1.7	41.0	61.6#
182	0.0	2.1	3.1#

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

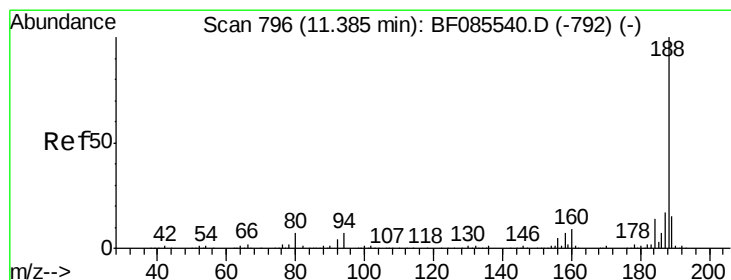
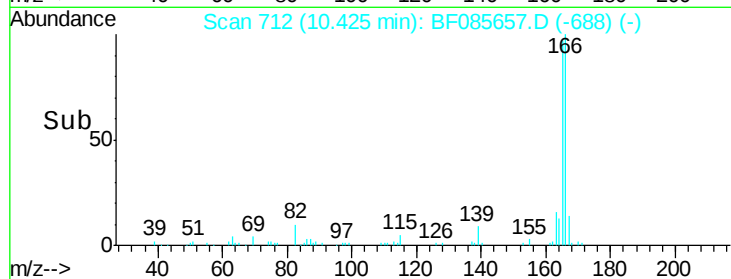
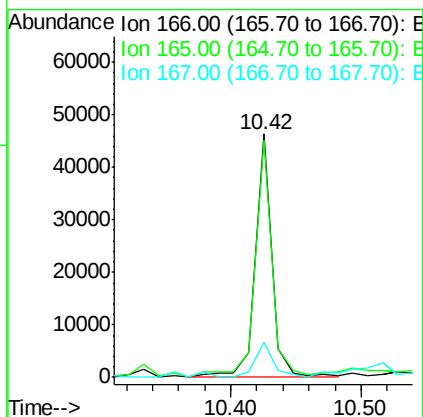
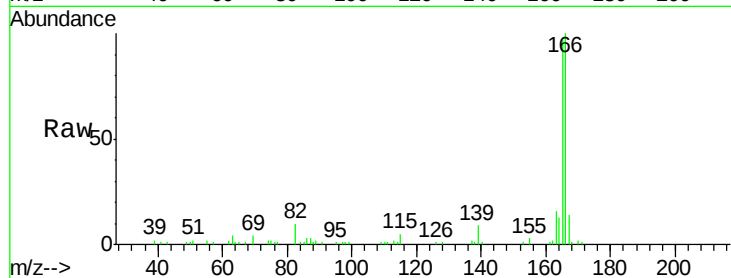




#57
Fluorene
 Concen: 2.98 ng
 RT: 10.42 min Scan# 712
 Delta R.T. -0.02 min
 Lab File: BF085657.D
 Acq: 22 Mar 2016 9:53

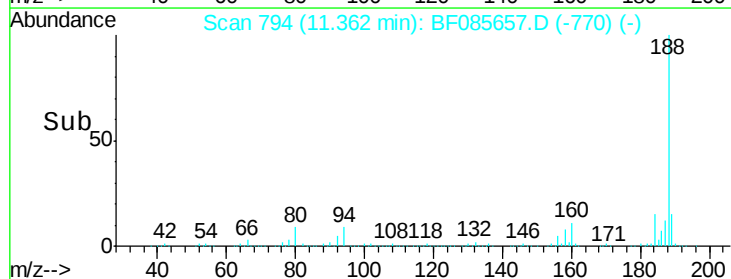
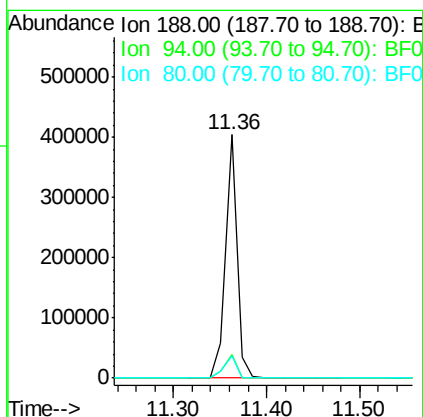
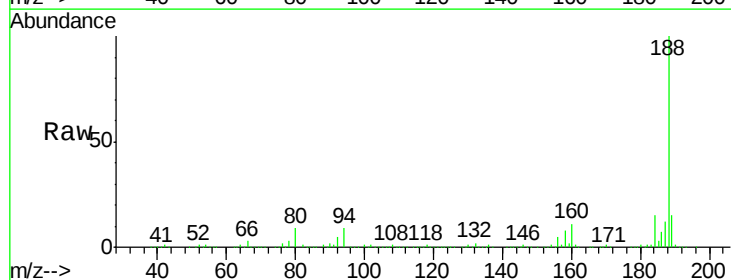
Instrument :
 BNA_F
 ClientSampleId :

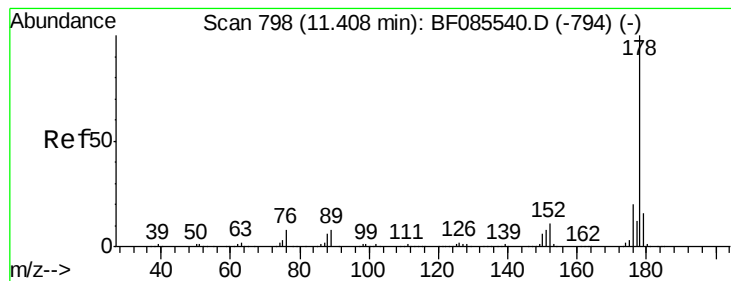
Tot Ion:166 Resp: 41694
 Ion Ratio Lower Upper
 166 100
 165 97.3 79.4 119.0
 167 14.4 11.0 16.4



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 794
 Delta R.T. -0.02 min
 Lab File: BF085657.D
 Acq: 22 Mar 2016 9:53

Tgt Ion:188 Resp: 345687
 Ion Ratio Lower Upper
 188 100
 94 9.4 5.4 8.0#
 80 9.3 5.5 8.3#





#70

Phenanthrene

Concen: 27.72 ng

RT: 11.39 min Scan# 796

Delta R.T. -0.02 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

Instrument :

BNA_F

ClientSampleId :

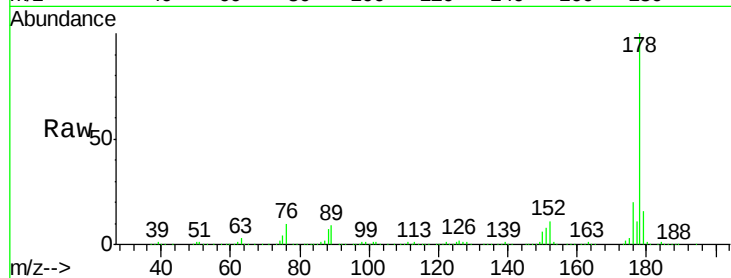
Tot Ion:178 Resp: 505199

Ion Ratio Lower Upper

178 100

176 19.8 16.3 24.5

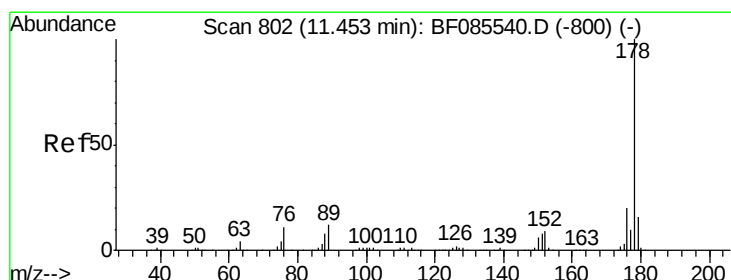
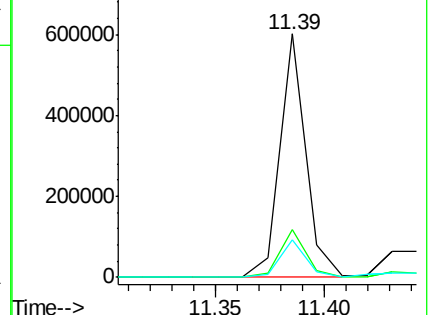
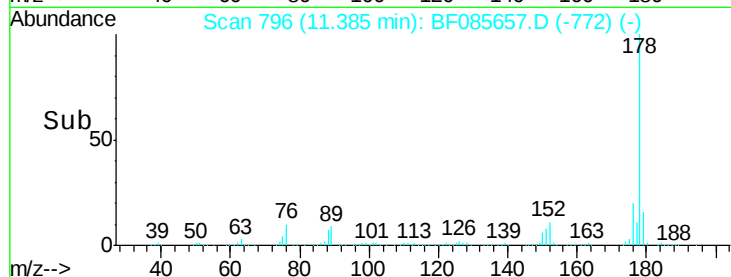
179 15.6 12.6 18.8



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: 5.23 ng

RT: 11.43 min Scan# 800

Delta R.T. -0.02 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

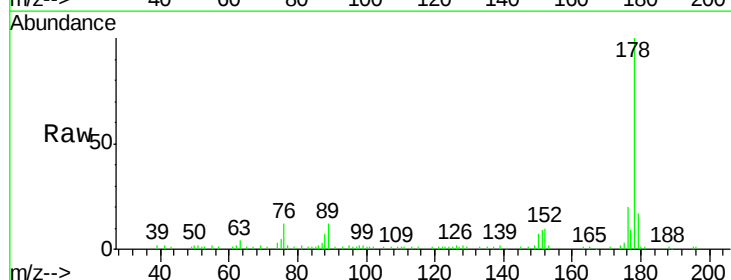
Tgt Ion:178 Resp: 99902

Ion Ratio Lower Upper

178 100

176 19.5 15.9 23.9

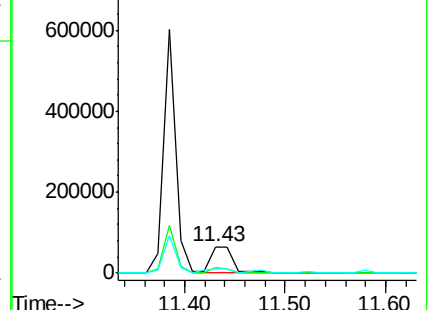
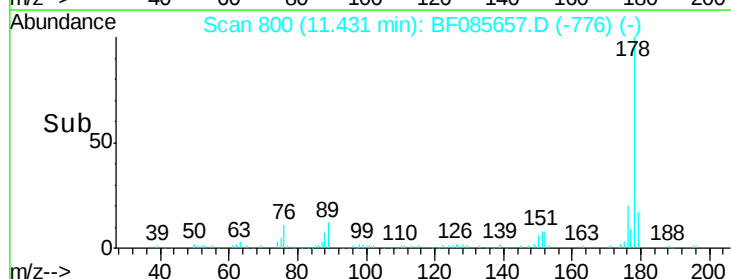
179 17.1 13.0 19.4

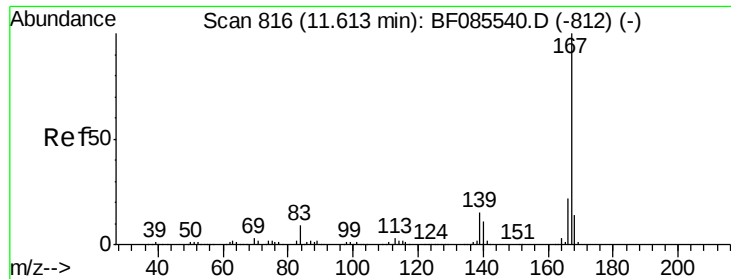


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

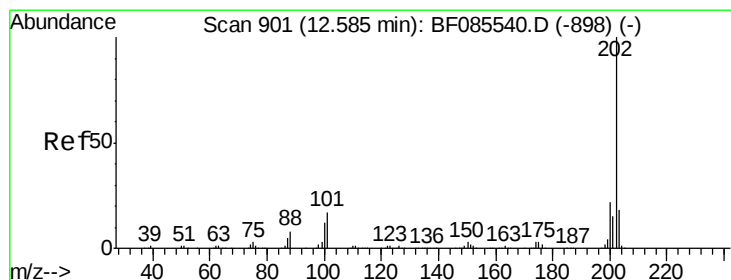
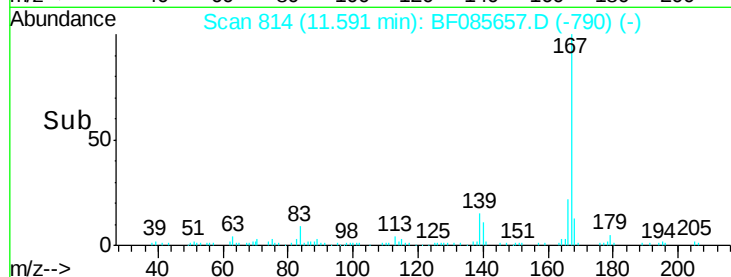
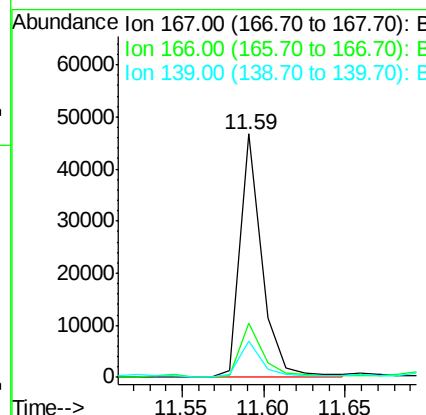
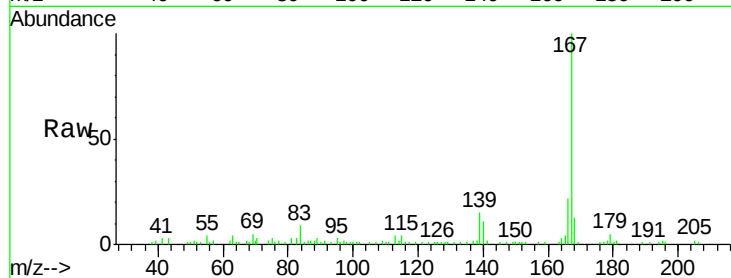




#72
 Carbazole
 Concen: 2.63 ng
 RT: 11.59 min Scan# 814
 Delta R.T. -0.02 min
 Lab File: BF085657.D
 Acq: 22 Mar 2016 9:53

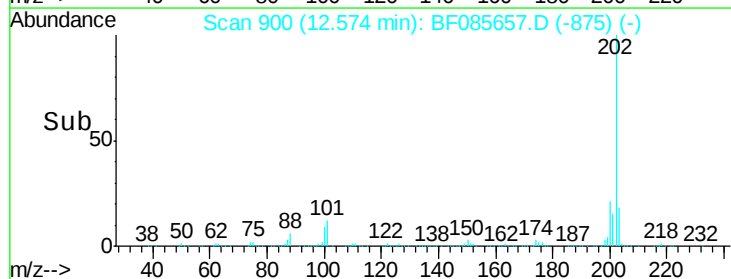
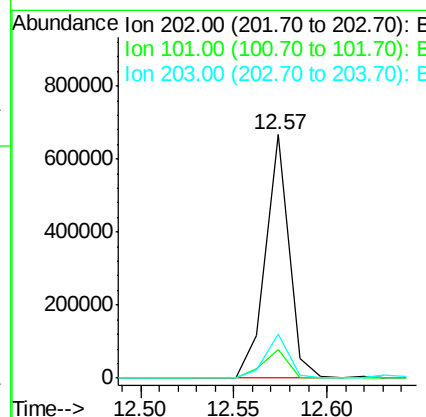
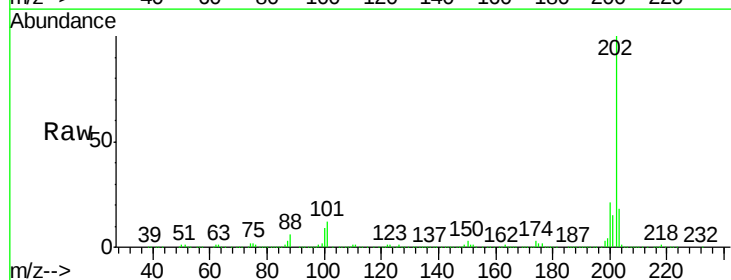
Instrument :
 BNA_F
 ClientSampleId :

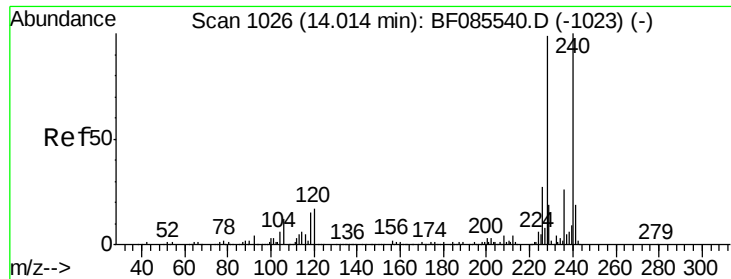
Tot Ion:167 Resp: 43357
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.8 26.8
 139 14.7 11.6 17.4



#74
 Fluoranthene
 Concen: 30.18 ng
 RT: 12.57 min Scan# 900
 Delta R.T. -0.01 min
 Lab File: BF085657.D
 Acq: 22 Mar 2016 9:53

Tgt Ion:202 Resp: 576009
 Ion Ratio Lower Upper
 202 100
 101 11.8 0.0 36.6
 203 17.8 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

Instrument :

BNA_F

ClientSampleId :

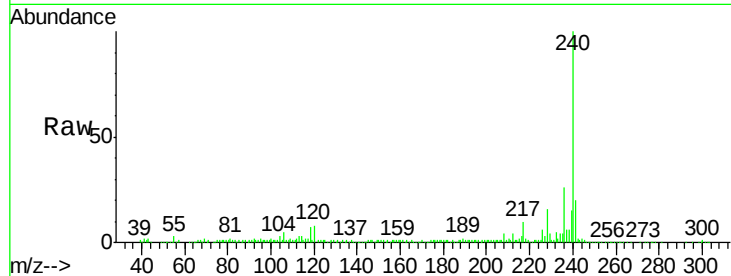
Tot Ion:240 Resp: 272332

Ion Ratio Lower Upper

240 100

120 8.2 13.8 20.8#

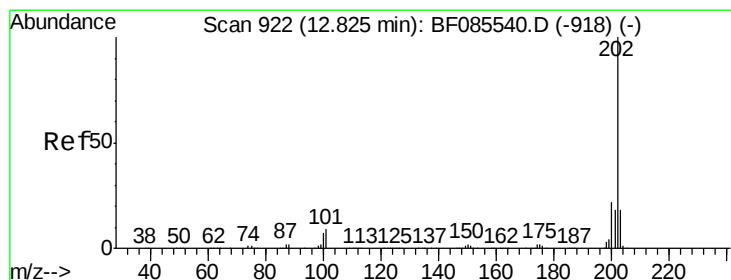
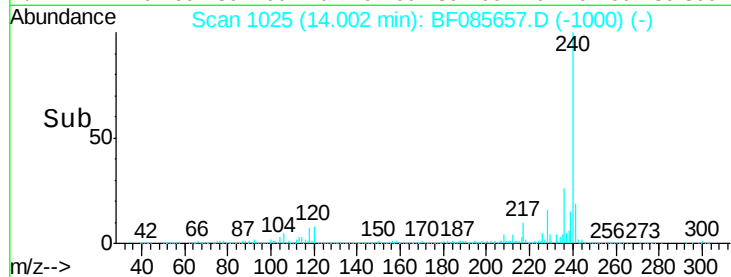
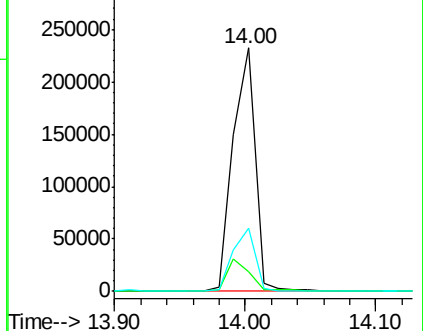
236 26.2 20.6 30.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 26.99 ng

RT: 12.80 min Scan# 920

Delta R.T. -0.02 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

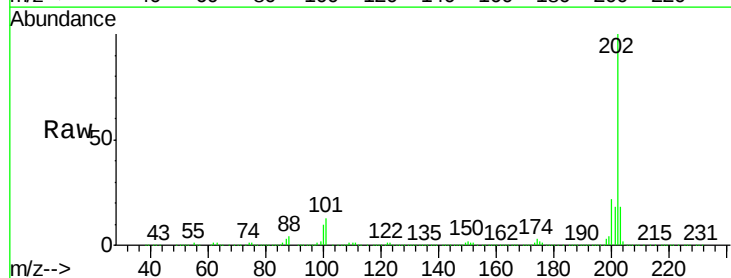
Tgt Ion:202 Resp: 527856

Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

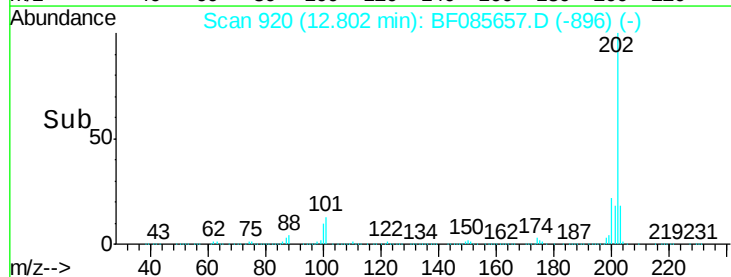
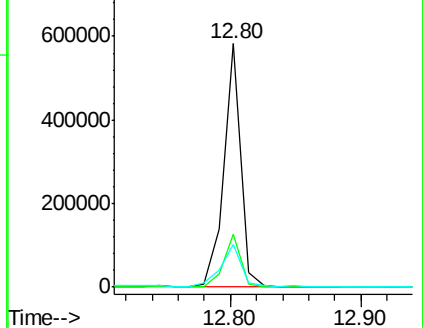
203 17.7 14.0 21.0

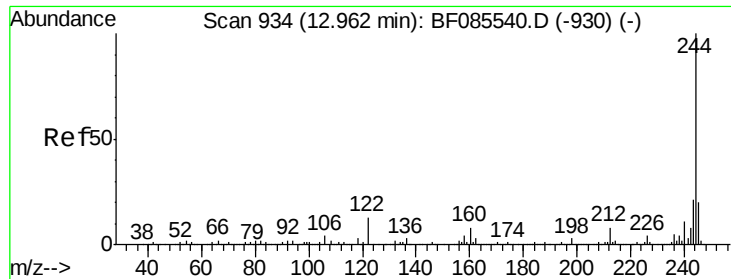


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

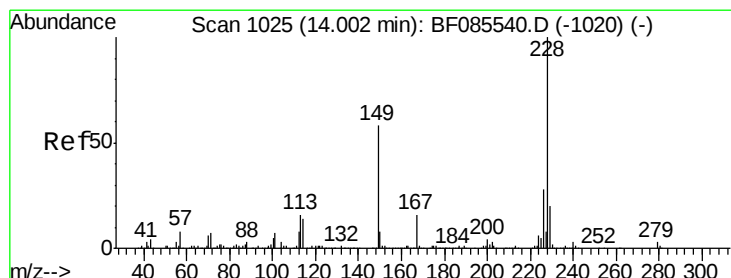
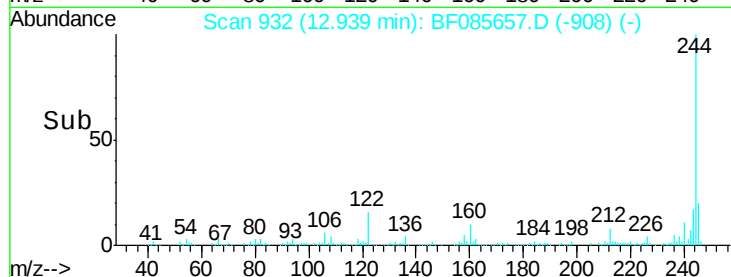
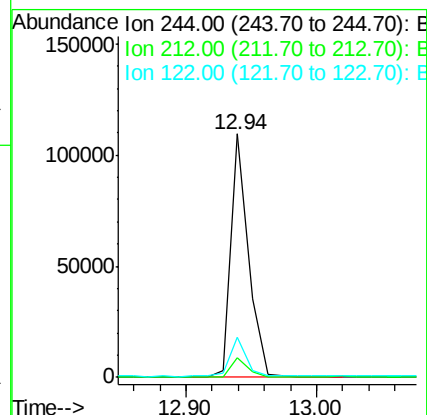
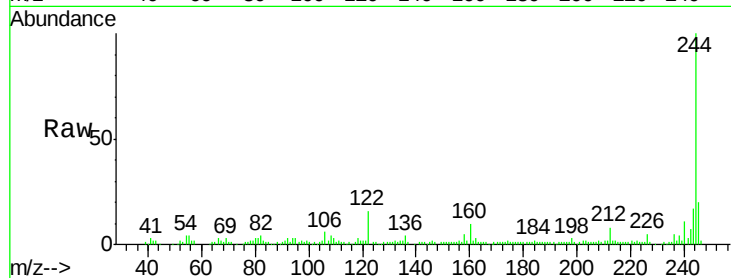




#78
 Terphenyl-d14
 Concen: 9.12 ng
 RT: 12.94 min Scan# 932
 Delta R.T. -0.02 min
 Lab File: BF085657.D
 Acq: 22 Mar 2016 9:53

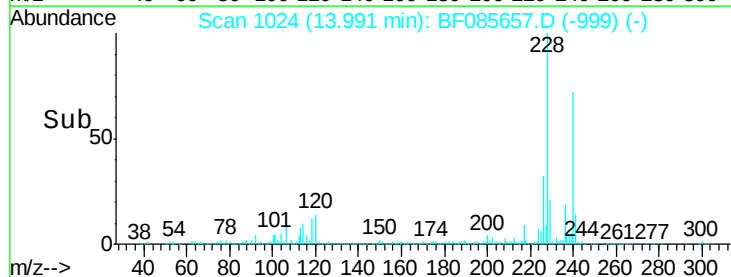
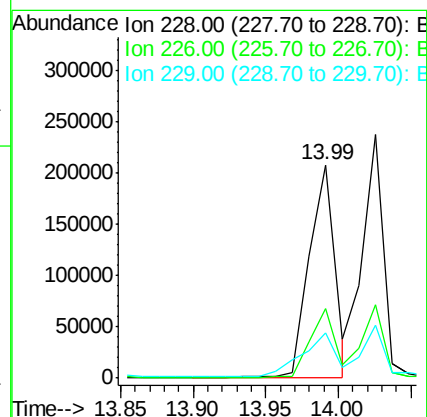
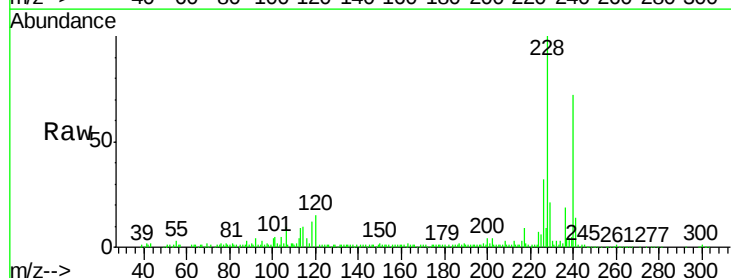
Instrument :
 BNA_F
 ClientSampled :

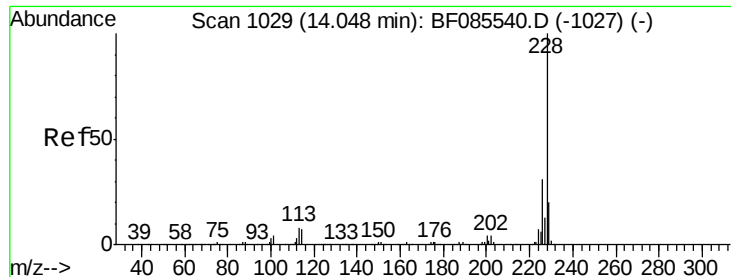
Tot Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.1	9.1
122	16.4	10.2	15.4



#80
 Benzo(a)anthracene
 Concen: 16.06 ng
 RT: 13.99 min Scan# 1024
 Delta R.T. -0.01 min
 Lab File: BF085657.D
 Acq: 22 Mar 2016 9:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.4	22.1	33.1
229	21.1	16.2	24.4





#82

Chrysene

Concen: 15.51 ng

RT: 14.03 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

Instrument :

BNA_F

ClientSampleId :

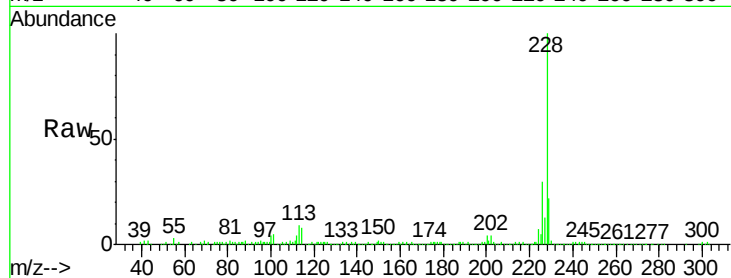
Tot Ion:228 Resp: 235955

Ion Ratio Lower Upper

228 100

226 30.4 25.0 37.6

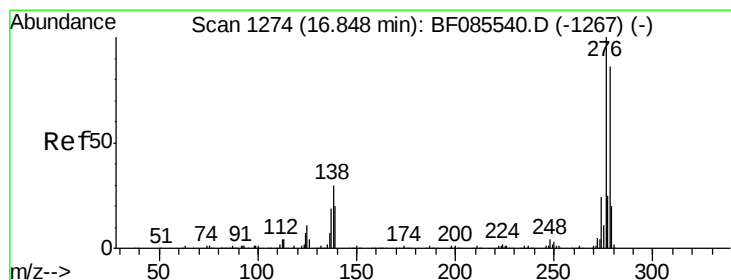
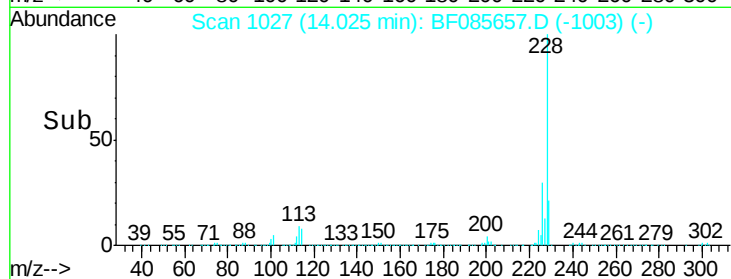
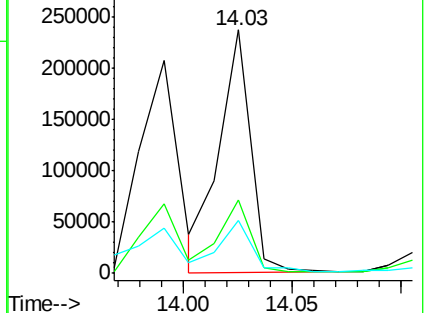
229 21.8 15.7 23.5



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: 8.50 ng

RT: 16.81 min Scan# 1271

Delta R.T. -0.03 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

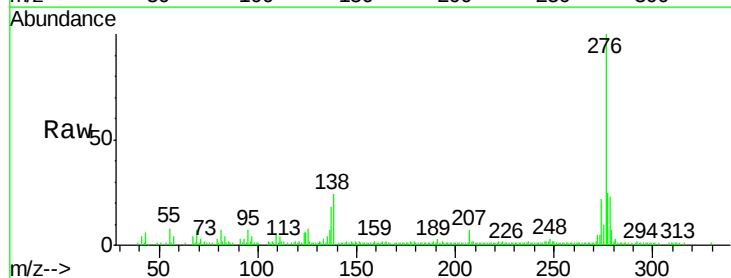
Tgt Ion:276 Resp: 107981

Ion Ratio Lower Upper

276 100

138 26.7 24.2 36.4

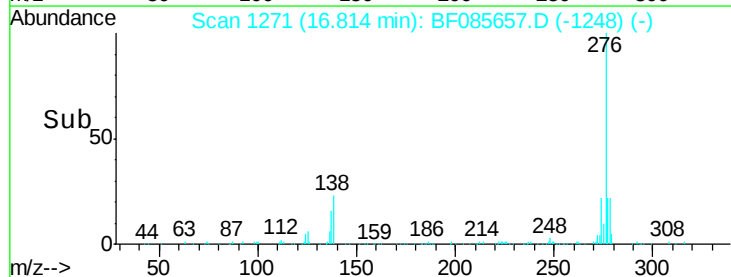
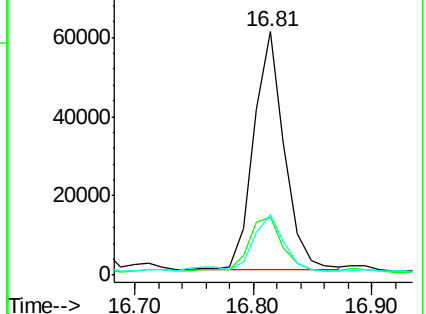
277 27.1 20.0 30.0

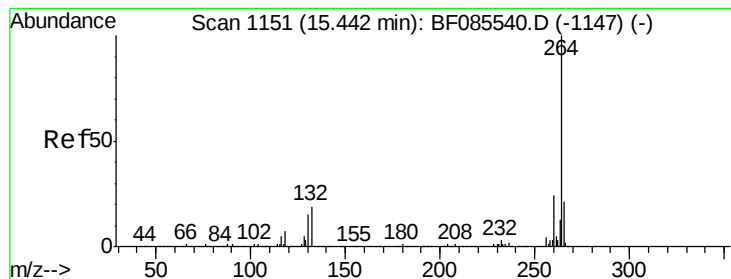


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.42 min Scan# 1149

Delta R.T. -0.02 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

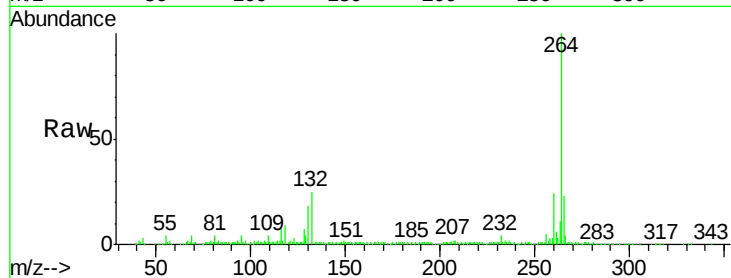
Instrument :

BNA_F

ClientSampleId :

Tot Ion:264 Resp: 285955

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	22.5	17.2	25.8

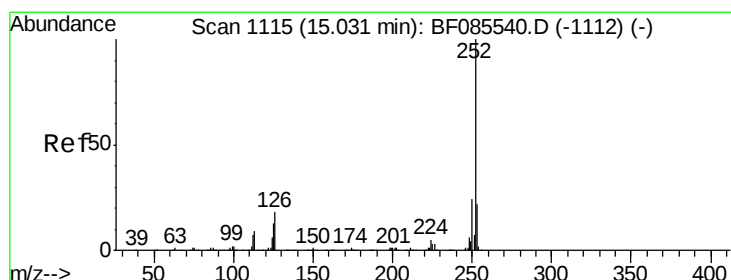
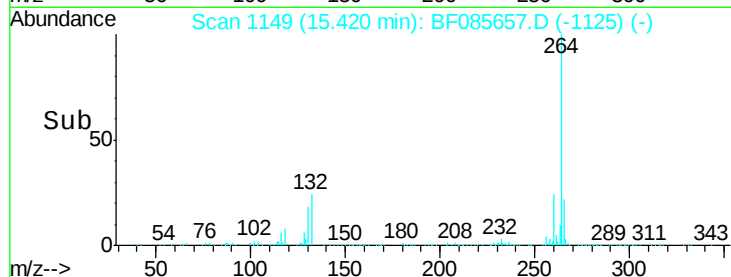
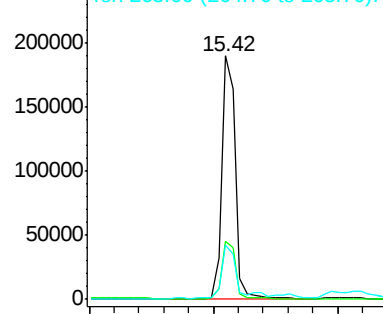


Abundance

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



#87

Benzo(b)fluoranthene

Concen: 21.31 ng

RT: 15.02 min Scan# 1114

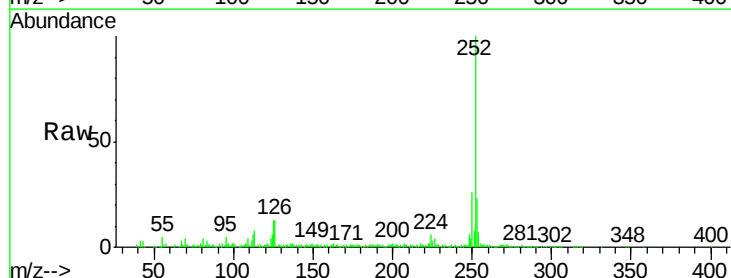
Delta R.T. -0.01 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

Tgt Ion:252 Resp: 397564

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.6	26.4
125	12.9	10.3	15.5

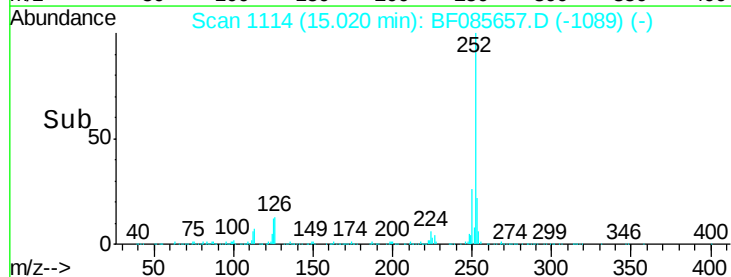
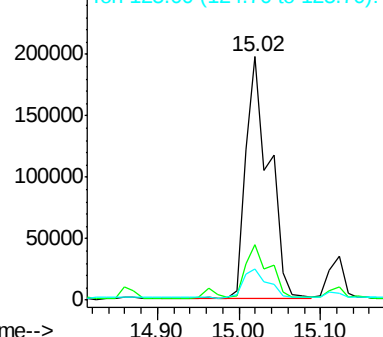


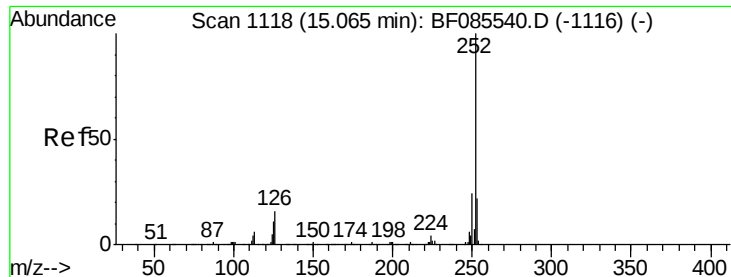
Abundance

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





#88

Benzo(k)fluoranthene

Concen: 25.86 ng

RT: 15.02 min Scan# 1114

Delta R.T. -0.05 min

Lab File: BF085657.D

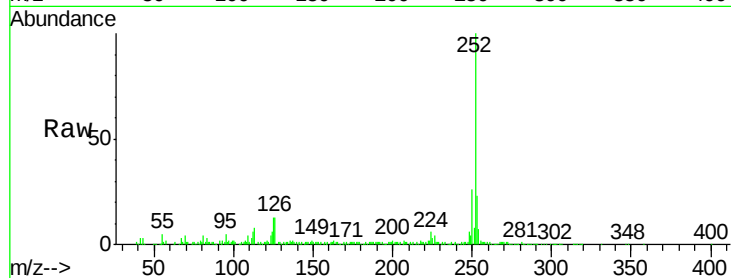
Acq: 22 Mar 2016 9:53

Instrument :

BNA_F

ClientSampleId :

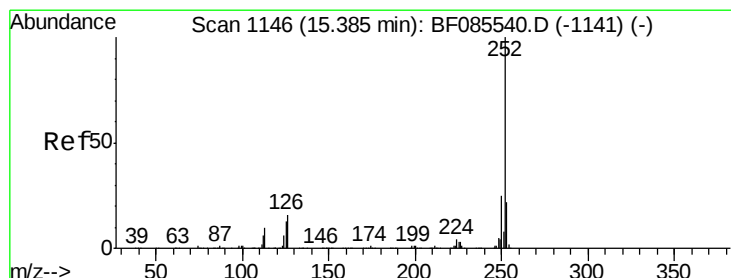
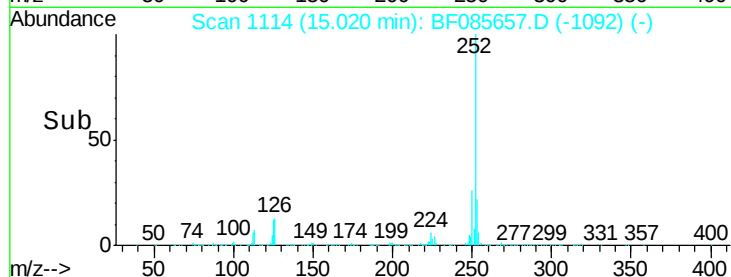
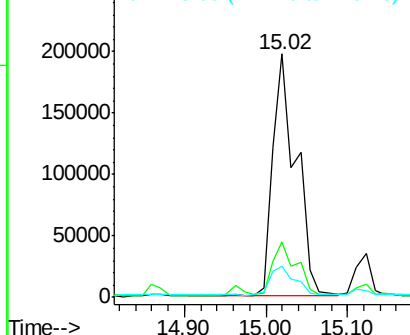
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	12.9	7.7	11.5



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



#89

Benzo(a)pyrene

Concen: 13.59 ng

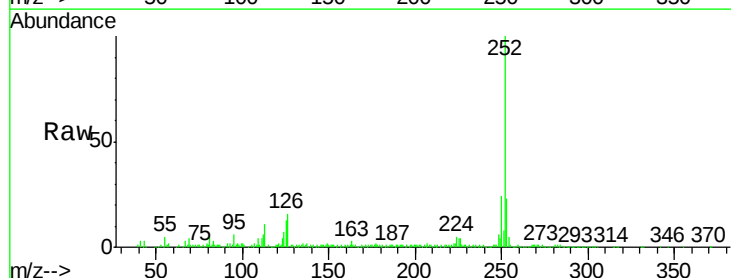
RT: 15.36 min Scan# 1144

Delta R.T. -0.02 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

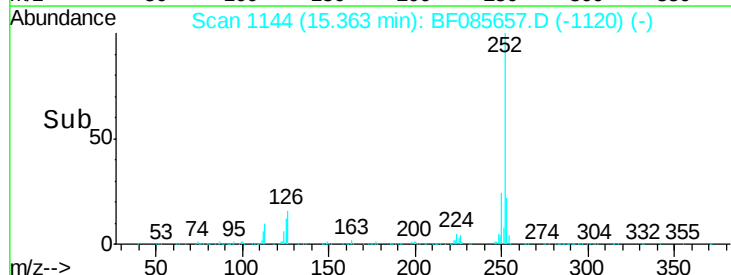
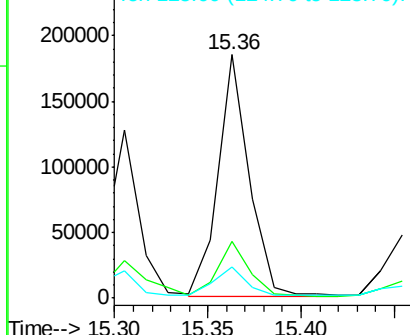
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.4	26.0
125	13.0	10.3	15.5

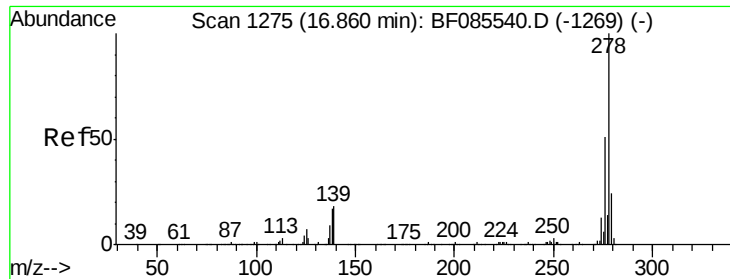


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.49 ng

RT: 16.81 min Scan# 1271

Delta R.T. -0.05 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

Instrument :

BNA_F

ClientSampleId :

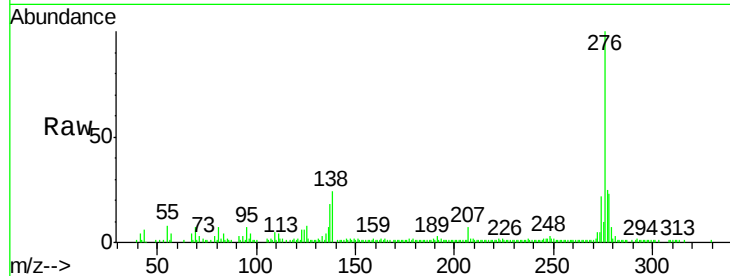
Tot Ion:278 Resp: 32813

Ion Ratio Lower Upper

278 100

139 0.0 14.4 21.6#

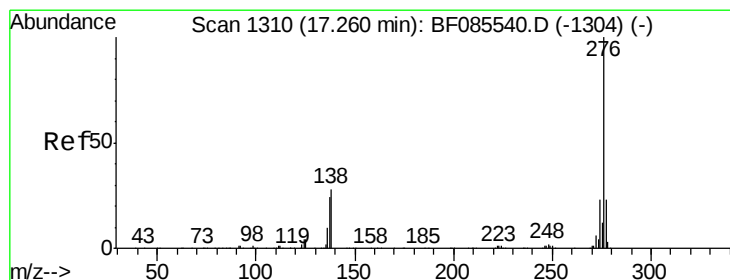
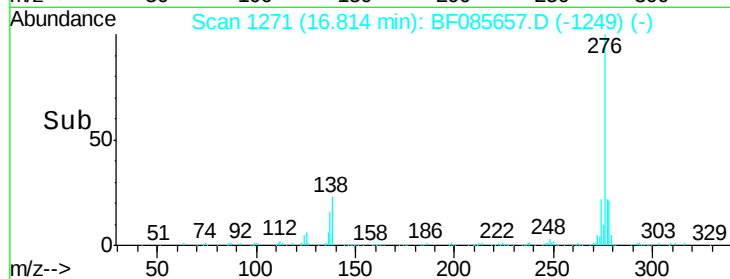
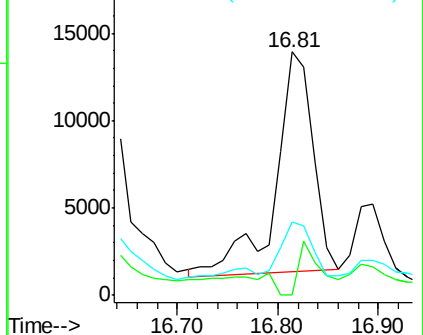
279 29.9 19.1 28.7#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 7.86 ng

RT: 17.23 min Scan# 1307

Delta R.T. -0.03 min

Lab File: BF085657.D

Acq: 22 Mar 2016 9:53

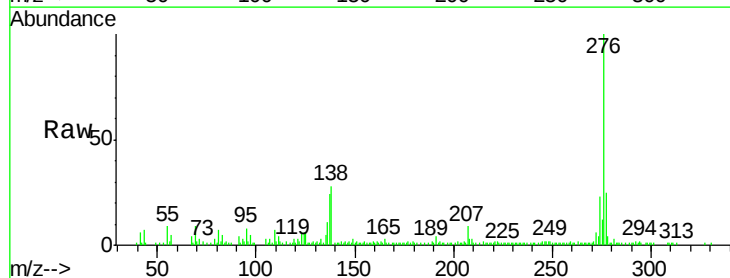
Tgt Ion:276 Resp: 100361

Ion Ratio Lower Upper

276 100

277 24.8 18.8 28.2

138 27.9 22.6 34.0



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

