

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062816\
 Data File : BF088496.D
 Acq On : 28 Jun 2016 23:31
 Operator : UM/SJ
 Sample : H3766-05
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 1

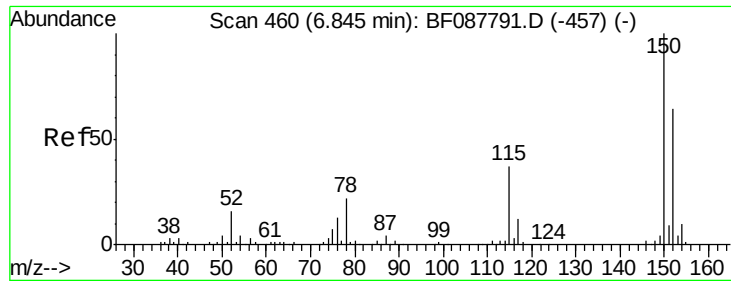
Quant Time: Jun 29 01:30:41 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 28 05:25:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.52	152	76686	20.00	ng	-0.02
21) Naphthalene-d8	7.80	136	312675	20.00	ng	-0.03
38) Acenaphthene-d10	9.55	164	124308	20.00	ng	-0.03
63) Phenanthrene-d10	11.04	188	205608	20.00	ng	-0.02
75) Chrysene-d12	13.68	240	141706	20.00	ng	-0.01
86) Perylene-d12	15.03	264	131353	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.11	112	598672	133.46	ng	-0.02
7) Phenol-d6	6.19	99	743897	136.84	ng	-0.03
23) Nitrobenzene-d5	7.10	82	403569	75.37	ng	-0.03
41) 2,4,6-Tribromophenol	10.35	330	127340	97.02	ng	-0.02
44) 2-Fluorobiphenyl	8.89	172	724257	91.98	ng	-0.03
78) Terphenyl-d14	12.63	244	464456	74.58	ng	-0.01

Target Compounds						Qvalue
2) 1,4-Dioxane	1.68	88	7030	3.23	ng	# 87
9) Benzaldehyde	6.30	77	13086	3.26	ng	# 84
10) Phenol	6.20	94	8232	Below	Cal	# 4
18) Hexachloroethane	7.08	117	51949	25.51	ng	# 2
31) Naphthalene	7.83	128	62897	4.06	ng	# 78
35) Caprolactam	8.25	113	16783	11.86	ng	# 53
37) 2-Methylnaphthalene	8.52	142	169772	16.65	ng	# 98
45) 1,1'-Biphenyl	8.75	154	2339	Below	Cal	# 83
49) Dimethylphthalate	9.29	163	94299	10.47	ng	# 98
51) Acenaphthene	9.59	154	36104	4.52	ng	# 88
52) 3-Nitroaniline	9.53	138	4865	2.04	ng	# 27
53) 2,4-Dinitrophenol	9.77	184	942	4.12	ng	# 1
55) 4-Nitrophenol	9.77	139	17356	9.40	ng	# 47
56) 2,4-Dinitrotoluene	9.77	165	9376	3.54	ng	# 62
57) Fluorene	10.10	166	60400	3.70	ng	# 70
64) 4,6-Dinitro-2-methylphenol	10.18	198	994	2.90	ng	# 1
65) n-Nitrosodiphenylamine	10.23	169	125460	18.39	ng	# 45
70) Phenanthrene	11.06	178	180975	16.77	ng	# 95
74) Fluoranthene	12.48	202	58097	5.10	ng	# 86
77) Pyrene	12.48	202	77386	7.36	ng	# 90
80) Benzo(a)anthracene	13.70	228	67078	8.31	ng	# 34
82) Chrysene	13.70	228	67078	8.83	ng	# 43

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

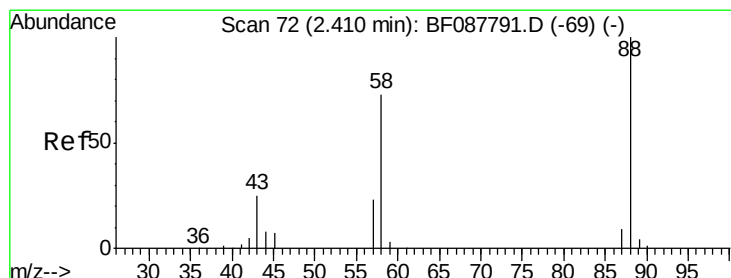
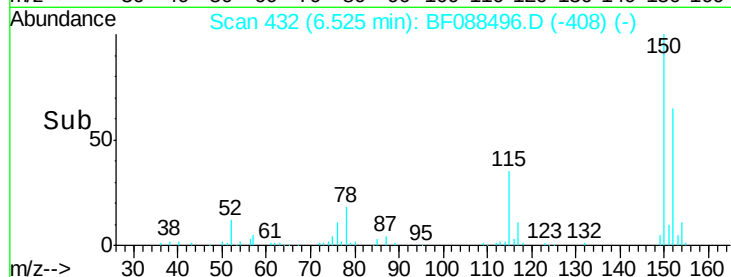
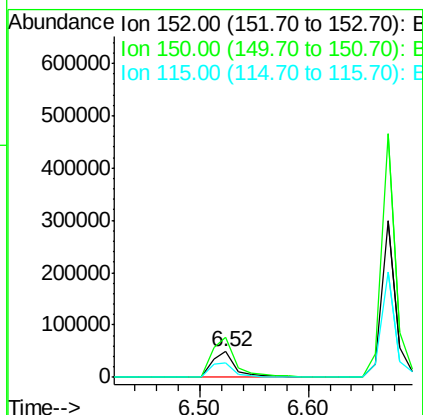
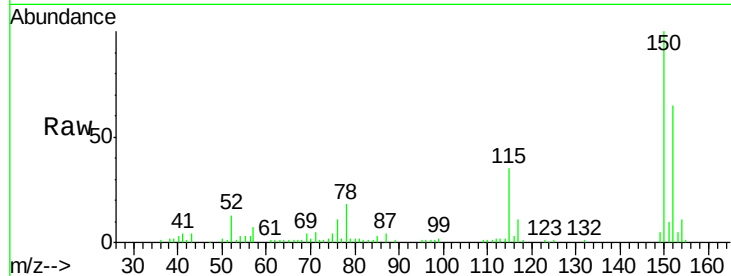


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.52 min Scan# 432
Delta R.T. -0.02 min
Lab File: BF088496.D
Acq: 28 Jun 2016 23:31

Instrument :
BNA_F
ClientSampleId :
1

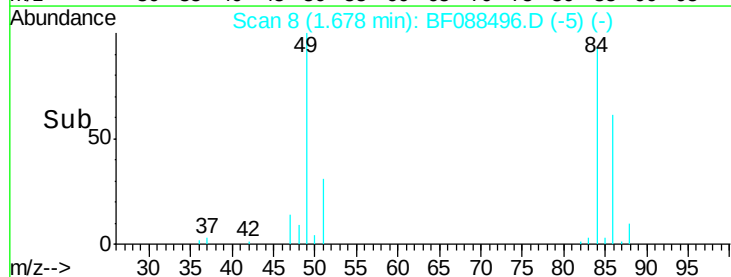
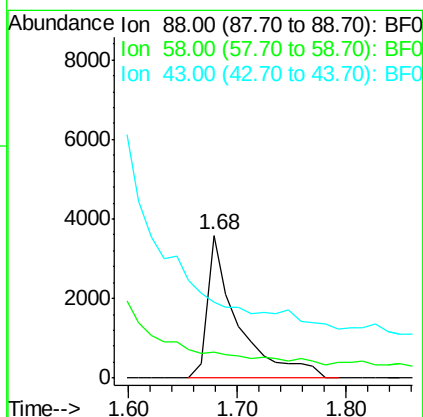
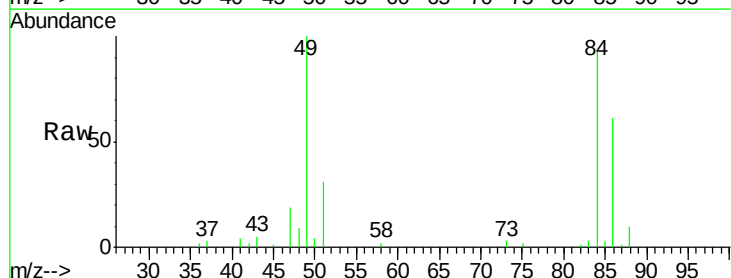
Tgt Ion:152 Resp: 76686
Ion Ratio Lower Upper
152 100
150 154.3 123.8 185.6
115 54.0 39.6 59.4

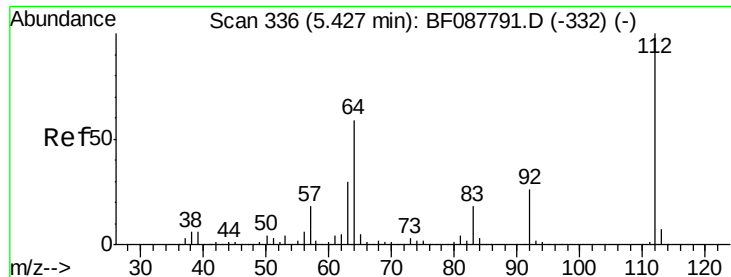


#2

1,4-Dioxane
Concen: 3.23 ng
RT: 1.68 min Scan# 8
Delta R.T. -0.26 min
Lab File: BF088496.D
Acq: 28 Jun 2016 23:31

Tgt Ion: 88 Resp: 7030
Ion Ratio Lower Upper
88 100
58 0.0 0.0 0.0
43 0.0 3.4 5.2#





#5

2-Fluorophenol

Concen: 133.46 ng

RT: 5.11 min Scan# 308

Delta R.T. -0.02 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

Instrument :

BNA_F

ClientSampleId :

1

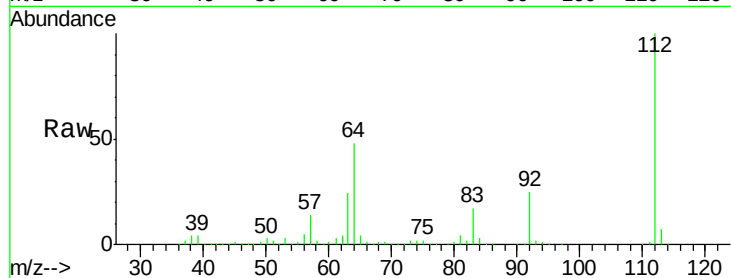
Tgt Ion: 112 Resp: 598672

Ion Ratio Lower Upper

112 100

64 47.5 42.2 63.2

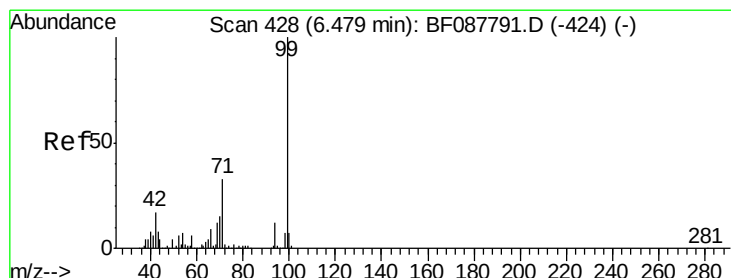
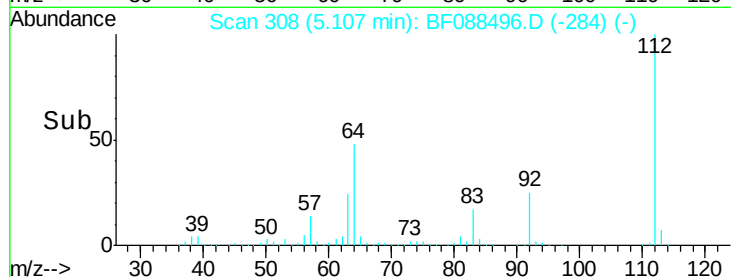
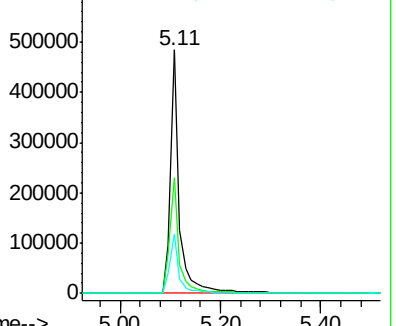
63 24.4 21.8 32.8



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: 136.84 ng

RT: 6.19 min Scan# 403

Delta R.T. -0.03 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

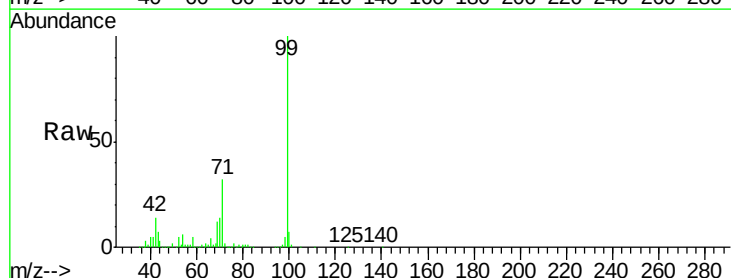
Tgt Ion: 99 Resp: 743897

Ion Ratio Lower Upper

99 100

42 13.8 12.2 18.2

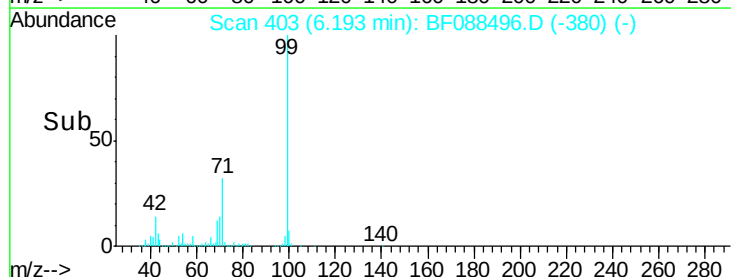
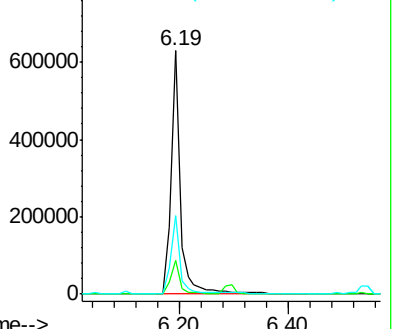
71 32.5 23.4 35.0

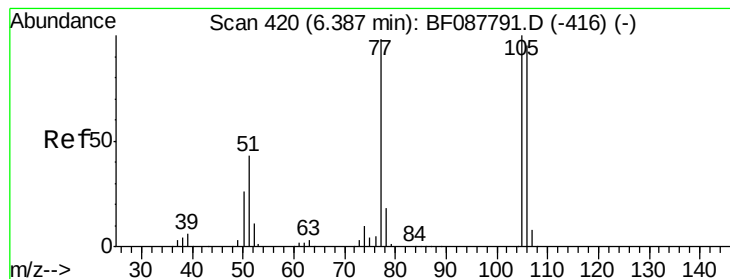


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#9

Benzaldehyde

Concen: 3.26 ng

RT: 6.30 min Scan# 412

Delta R.T. 0.19 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

Instrument :

BNA_F

ClientSampled :

1

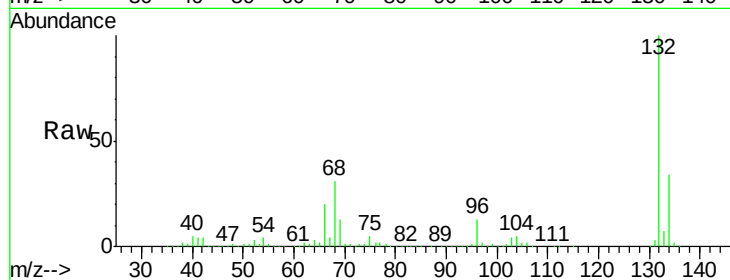
Tgt Ion: 77 Resp: 13086

Ion Ratio Lower Upper

77 100

105 96.8 90.6 130.6

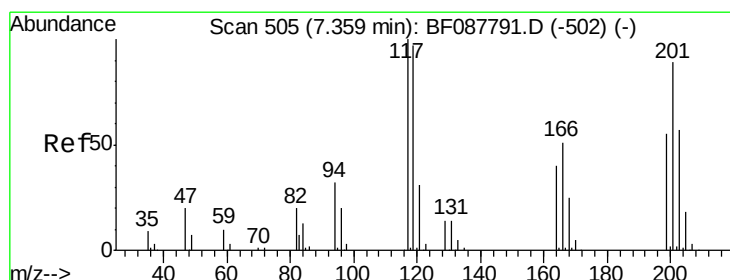
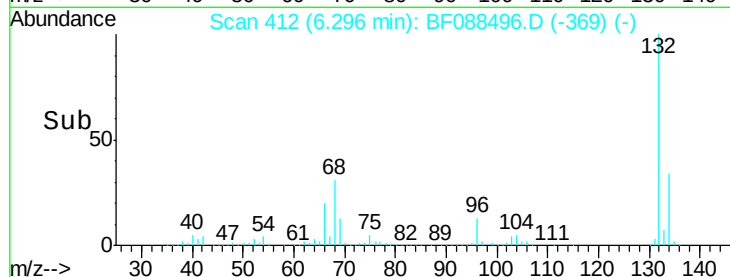
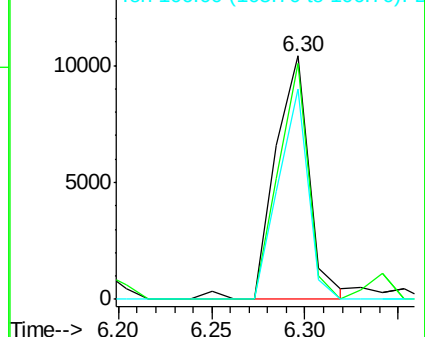
106 86.3 85.3 125.3



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



#18

Hexachloroethane

Concen: 25.51 ng

RT: 7.08 min Scan# 481

Delta R.T. 0.03 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

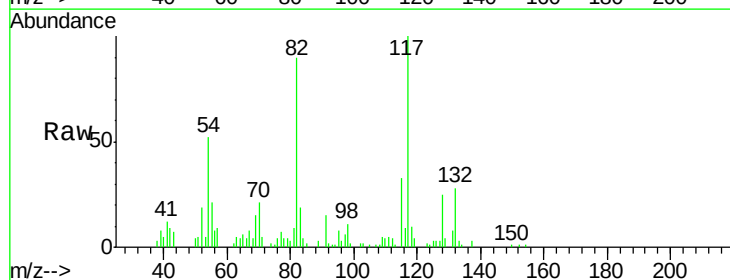
Tgt Ion: 117 Resp: 51949

Ion Ratio Lower Upper

117 100

119 3.6 77.4 116.2#

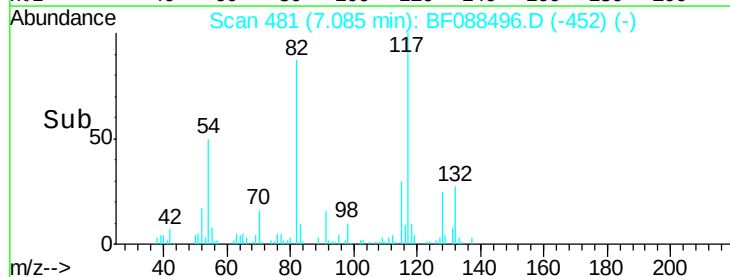
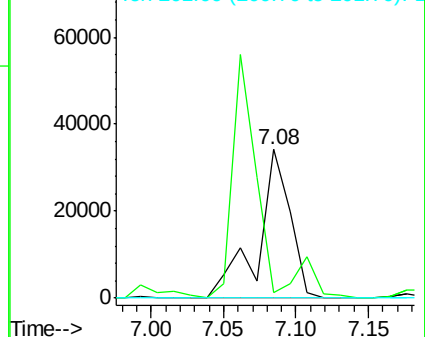
201 0.0 80.4 120.6#

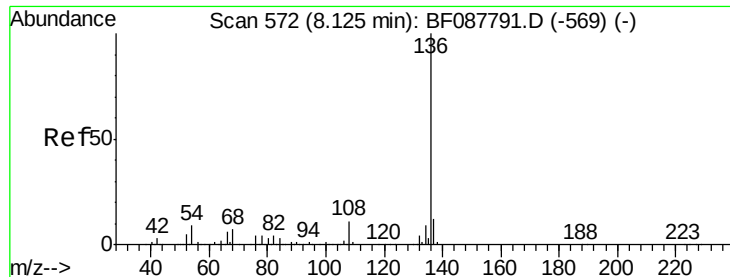


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

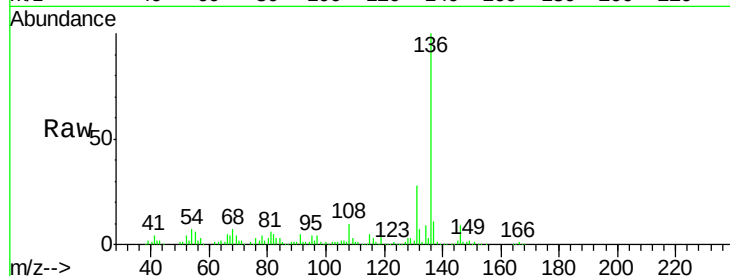




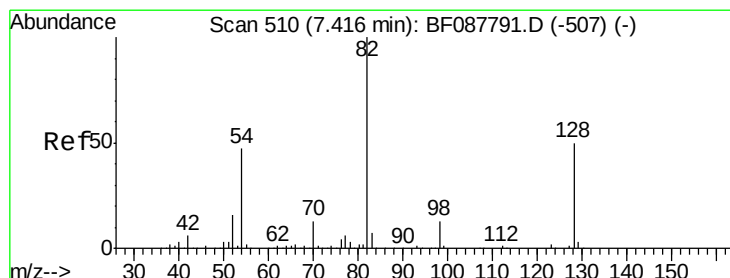
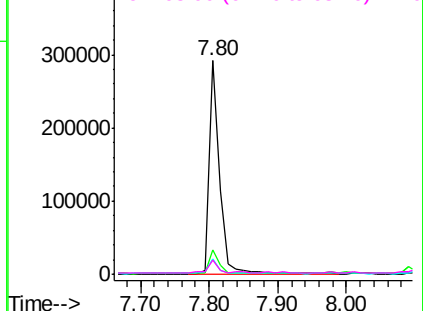
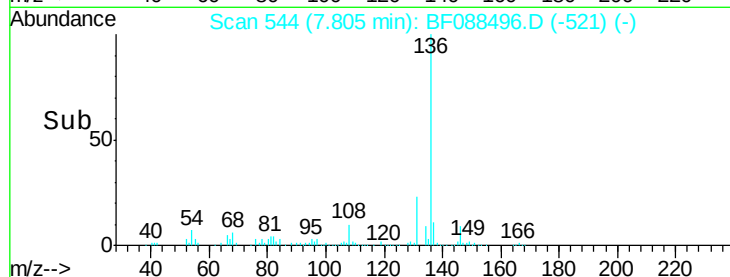
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.80 min Scan# 544
Delta R.T. -0.03 min
Lab File: BF088496.D
Acq: 28 Jun 2016 23:31

Instrument :
BNA_F
ClientSampleId :
1

Tgt Ion:	136	Resp:	312675
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	7.2	6.6	10.0
68	6.6	5.1	7.7

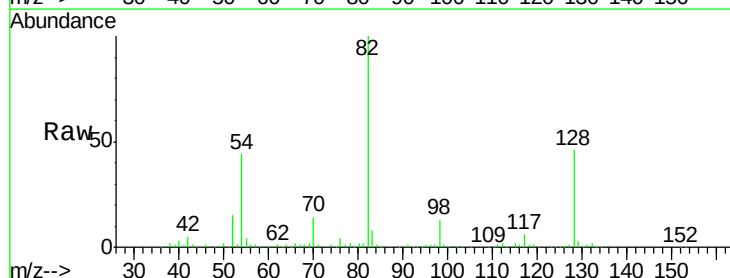


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

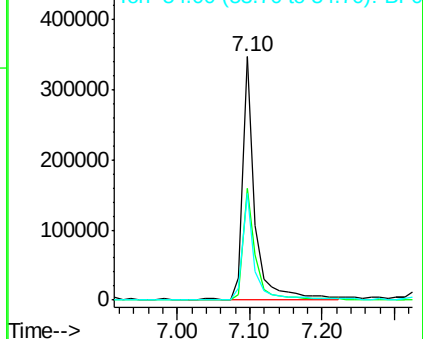
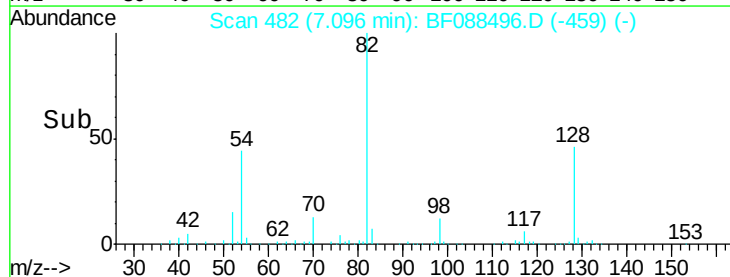


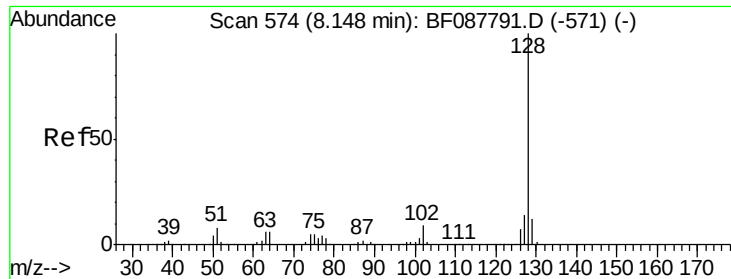
#23
Nitrobenzene-d5
Concen: 75.37 ng
RT: 7.10 min Scan# 482
Delta R.T. -0.03 min
Lab File: BF088496.D
Acq: 28 Jun 2016 23:31

Tgt Ion:	82	Resp:	403569
Ion	Ratio	Lower	Upper
82	100		
128	46.1	35.9	53.9
54	43.9	40.9	61.3



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

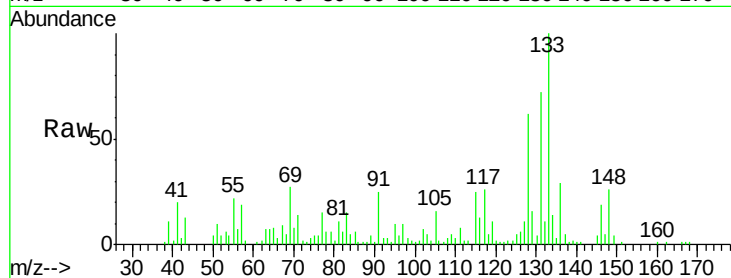




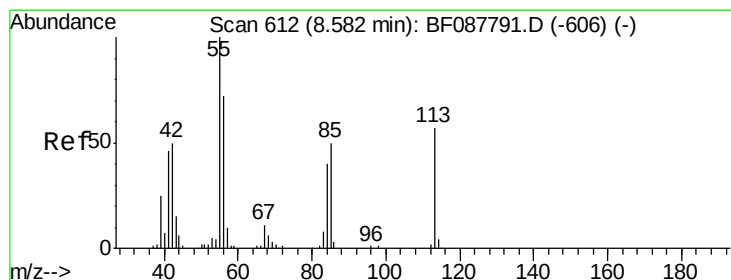
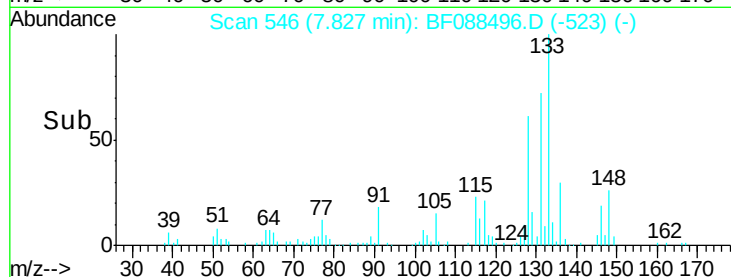
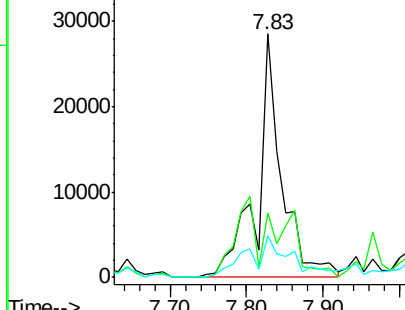
#31
Naphthalene
Concen: 4.06 ng
RT: 7.83 min Scan# 546
Delta R.T. -0.03 min
Lab File: BF088496.D
Acq: 28 Jun 2016 23:31

Instrument :
BNA_F
ClientSampleId :
1

Tgt Ion:128 Resp: 62897
Ion Ratio Lower Upper
128 100
129 26.3 9.4 14.2#
127 17.2 10.9 16.3#

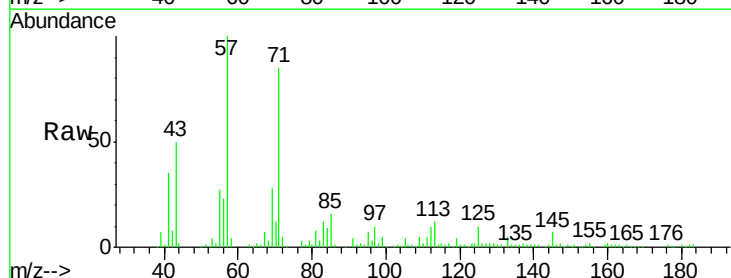


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

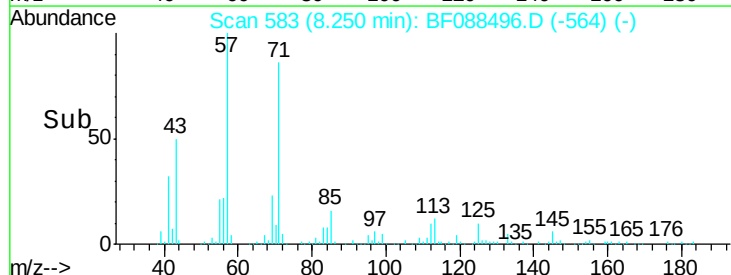
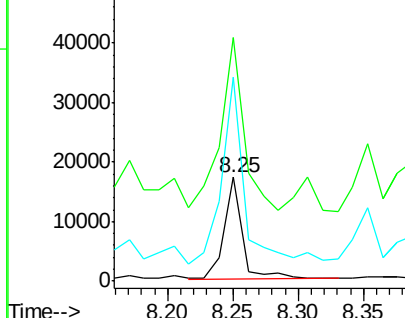


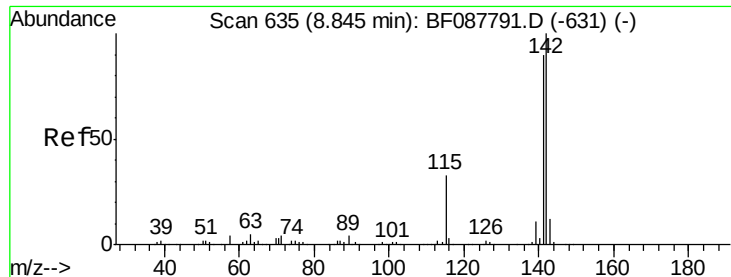
#35
Caprolactam
Concen: 11.86 ng
RT: 8.25 min Scan# 583
Delta R.T. -0.08 min
Lab File: BF088496.D
Acq: 28 Jun 2016 23:31

Tgt Ion:113 Resp: 16783
Ion Ratio Lower Upper
113 100
55 234.5 158.6 198.6#
56 196.1 110.6 150.6#



Abundance Ion 113.00 (112.70 to 113.70): E
Ion 55.00 (54.70 to 55.70): BF0
Ion 56.00 (55.70 to 56.70): BF0

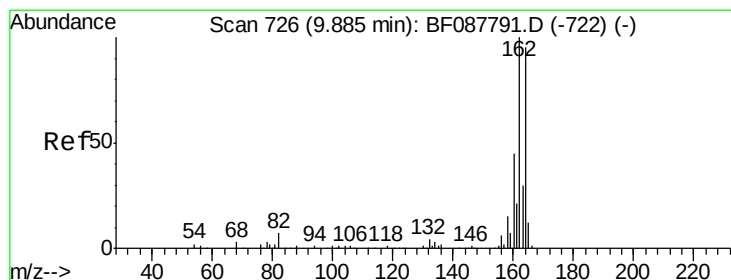
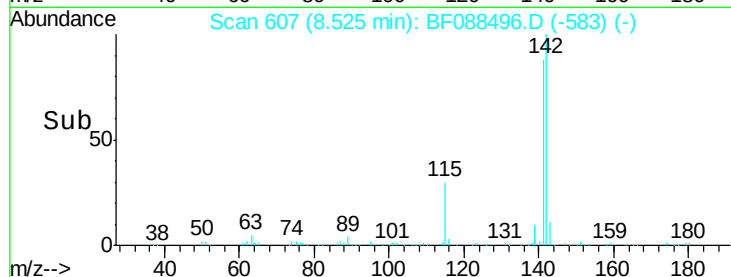
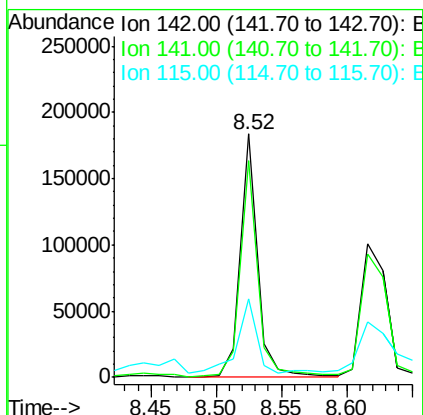
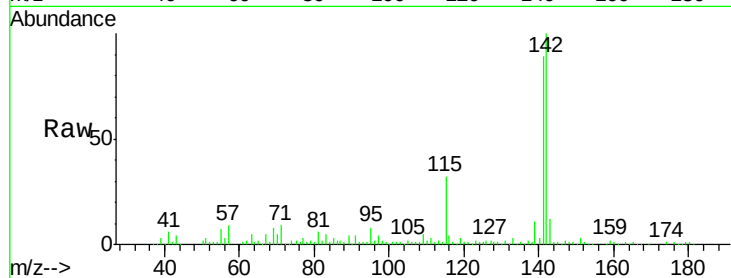




#37
 2-Methylnaphthalene
 Concen: 16.65 ng
 RT: 8.52 min Scan# 607
 Delta R.T. -0.02 min
 Lab File: BF088496.D
 Acq: 28 Jun 2016 23:31

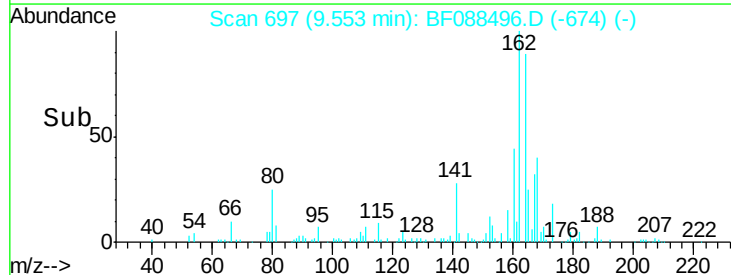
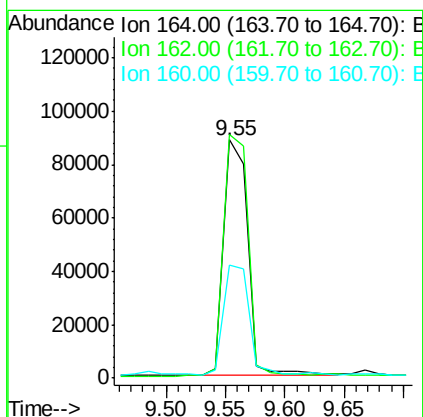
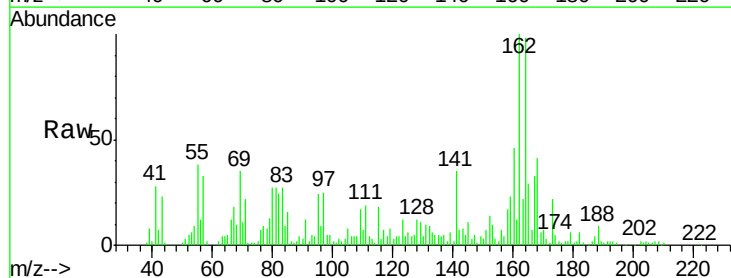
Instrument :
 BNA_F
 ClientSampleId :
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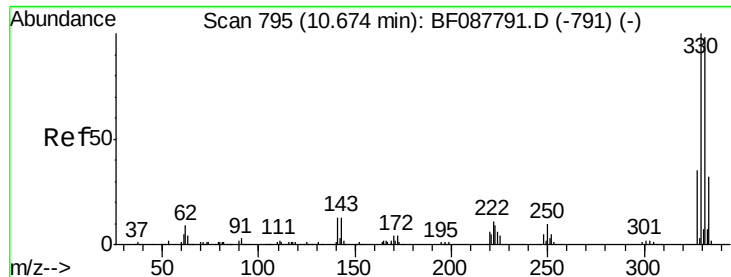
Tgt Ion:142 Resp: 169772
 Ion Ratio Lower Upper
 142 100
 141 89.0 71.0 106.6
 115 32.0 22.6 33.8



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.55 min Scan# 697
 Delta R.T. -0.03 min
 Lab File: BF088496.D
 Acq: 28 Jun 2016 23:31

Tgt Ion:164 Resp: 124308
 Ion Ratio Lower Upper
 164 100
 162 102.3 85.4 128.2
 160 47.4 39.5 59.3

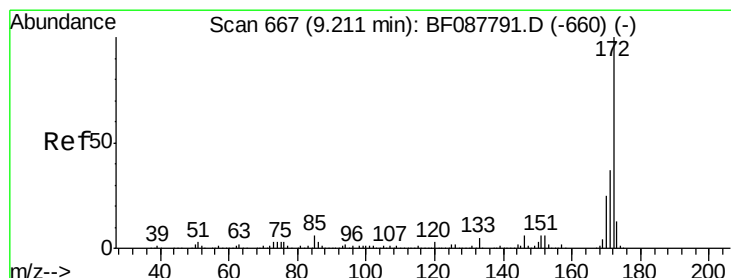
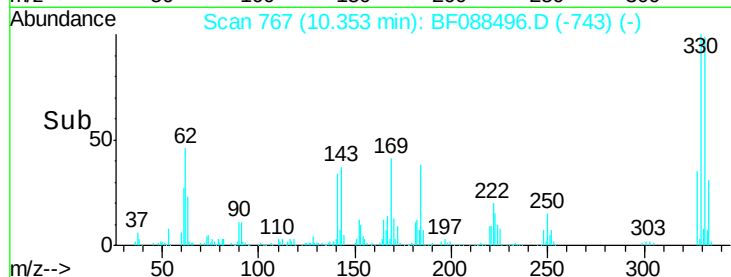
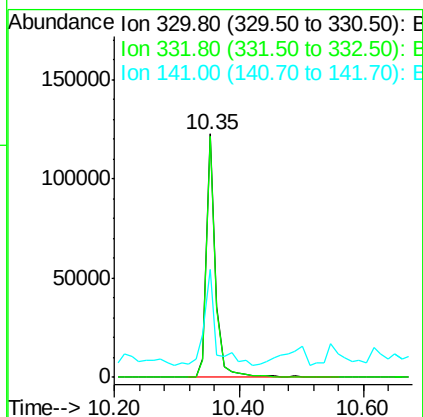
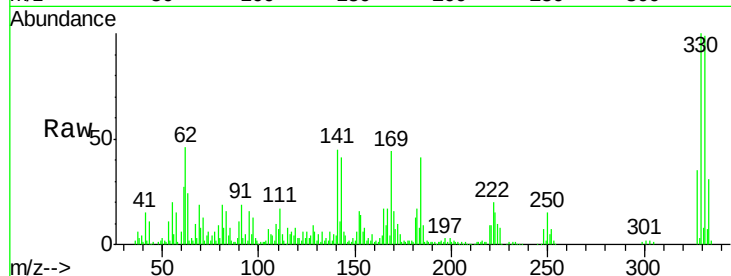




#41
 2,4,6-Tribromophenol
 Concen: 97.02 ng
 RT: 10.35 min Scan# 767
 Delta R.T. -0.02 min
 Lab File: BF088496.D
 Acq: 28 Jun 2016 23:31

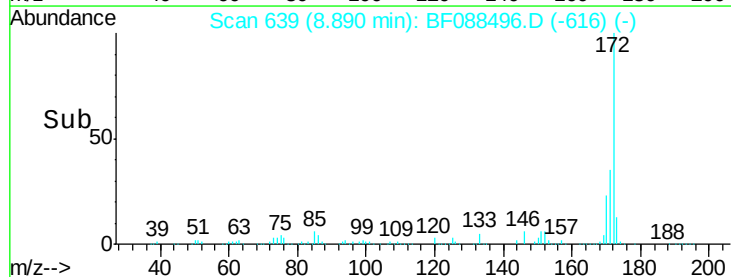
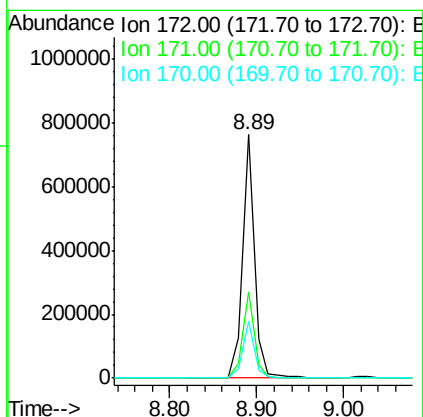
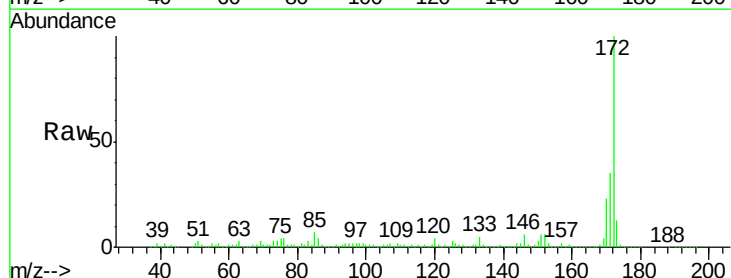
Instrument :
 BNA_F
 ClientSampleId :
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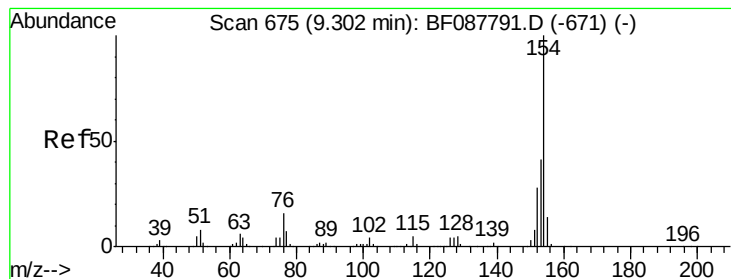
Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.9	0.0	0.0#
141	50.1	0.0	0.0#



#44
 2-Fluorobiphenyl
 Concen: 91.98 ng
 RT: 8.89 min Scan# 639
 Delta R.T. -0.03 min
 Lab File: BF088496.D
 Acq: 28 Jun 2016 23:31

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.3	19.2	28.8





#45

1,1'-Biphenyl

Concen: Below Cal

RT: 8.75 min Scan# 627

Delta R.T. -0.26 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

Instrument :

BNA_F

ClientSampled :

1

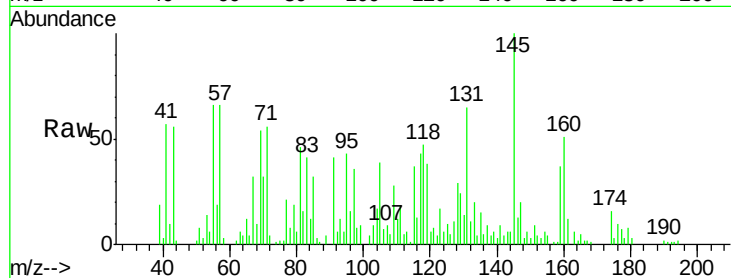
Tgt Ion:154 Resp: 2339

Ion Ratio Lower Upper

154 100

153 44.1 20.6 60.6

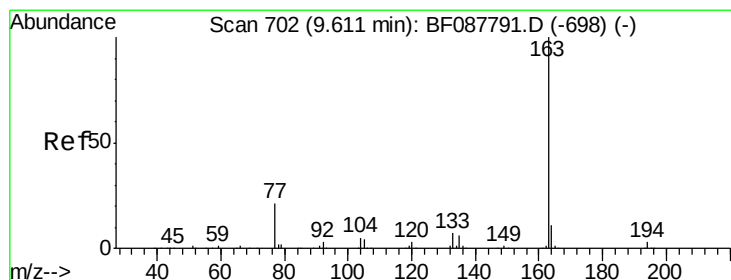
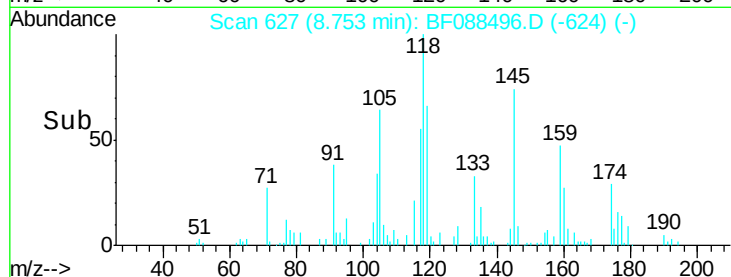
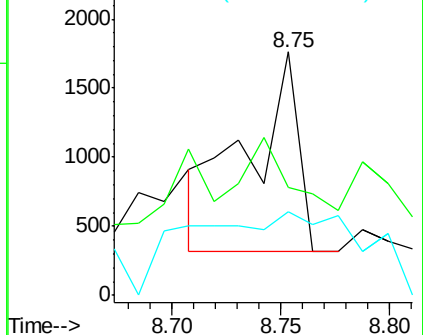
76 34.2 0.0 35.1



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0



#49

Dimethylphthalate

Concen: 10.47 ng

RT: 9.29 min Scan# 674

Delta R.T. -0.05 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

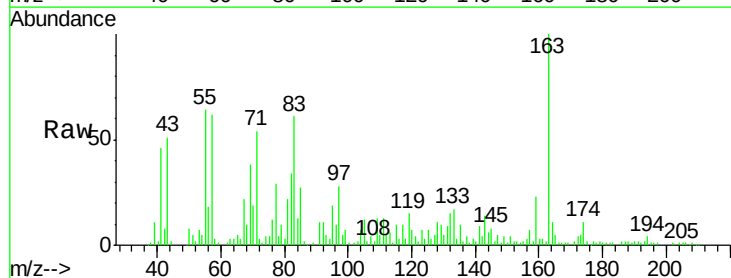
Tgt Ion:163 Resp: 94299

Ion Ratio Lower Upper

163 100

194 3.7 2.8 4.2

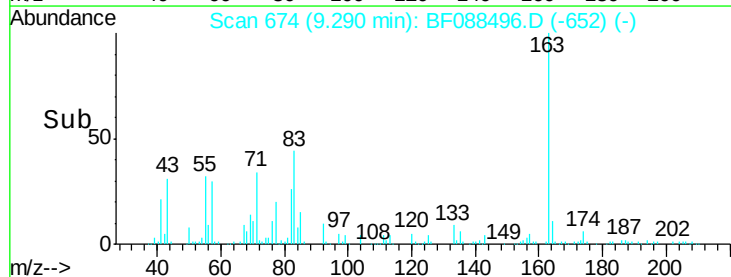
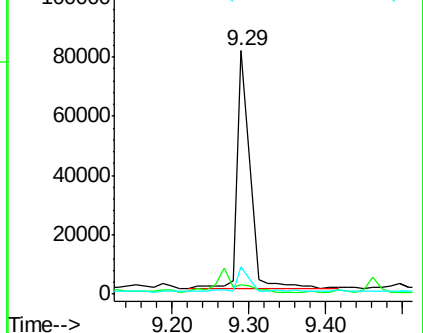
164 11.2 8.3 12.5

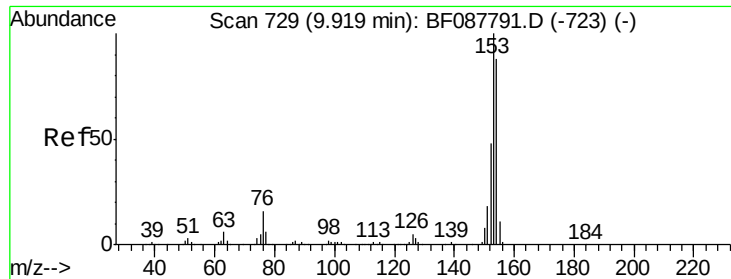


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 4.52 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.03 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

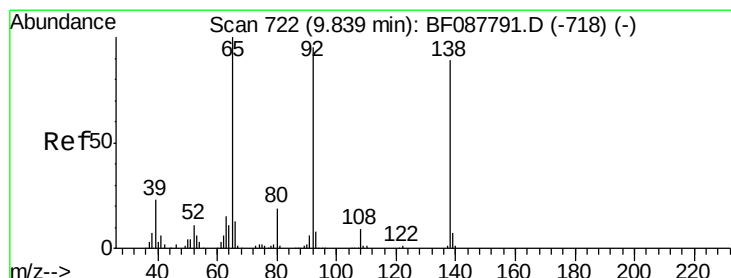
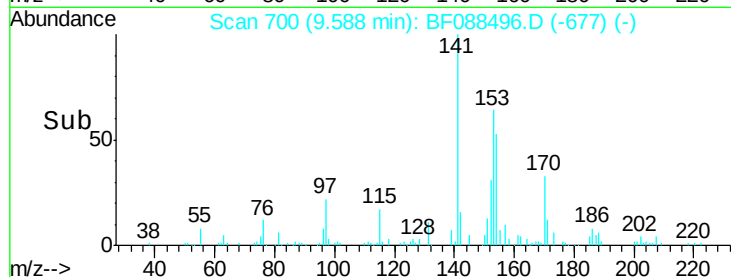
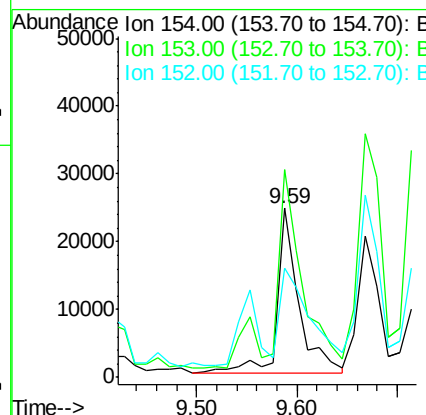
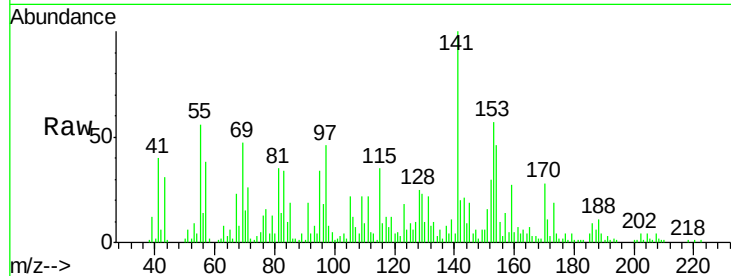
Instrument :

BNA_F

ClientSampled :

1

Tgt Ion:154 Resp: 36104
 Ion Ratio Lower Upper
 154 100
 153 122.7 89.5 134.3
 152 64.8 42.7 64.1#



#52

3-Nitroaniline

Concen: 2.04 ng

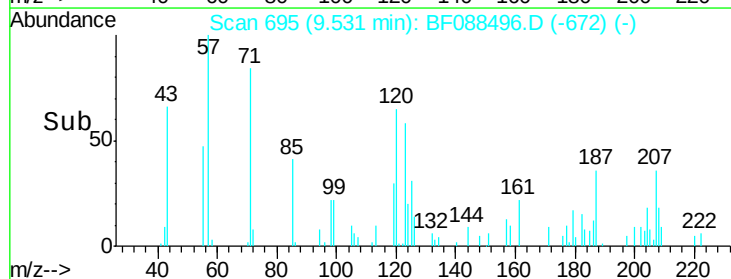
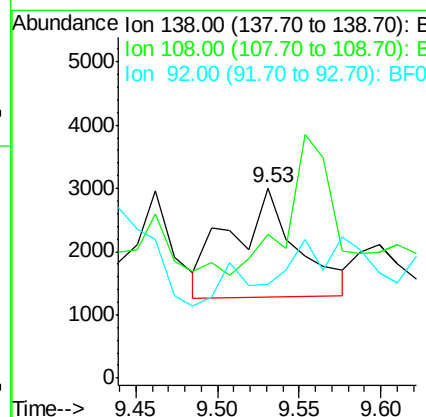
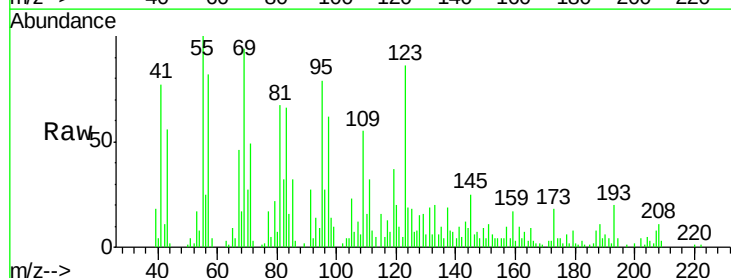
RT: 9.53 min Scan# 695

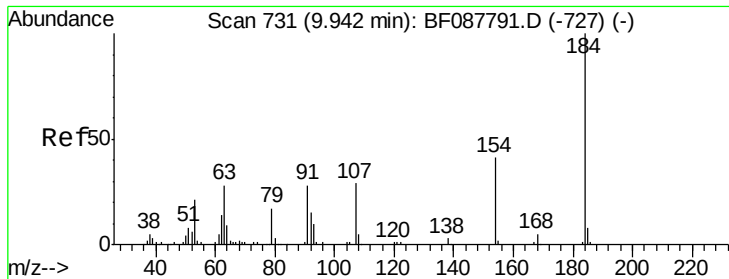
Delta R.T. -0.03 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

Tgt Ion:138 Resp: 4865
 Ion Ratio Lower Upper
 138 100
 108 75.6 8.5 12.7#
 92 49.1 95.7 143.5#

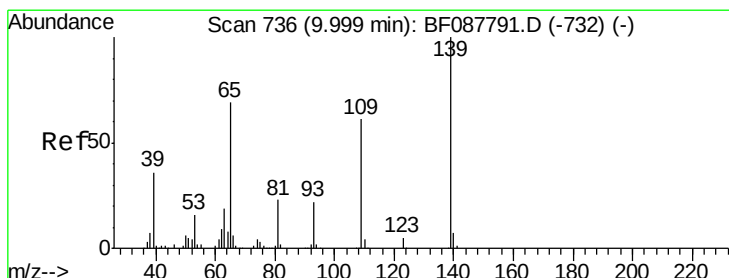
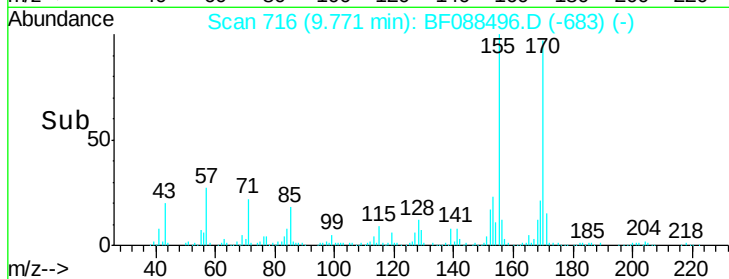
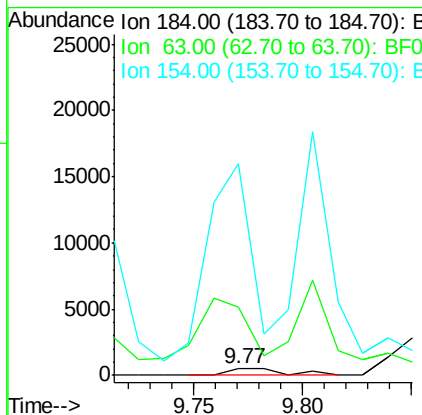
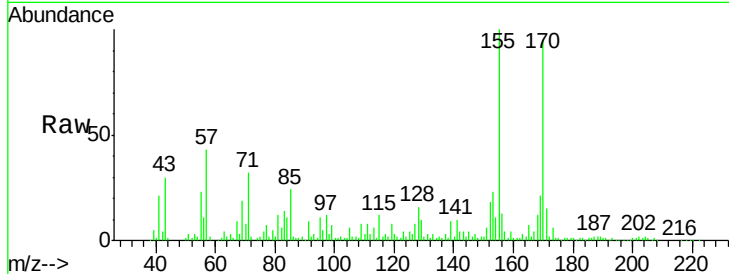




#53
 2,4-Dinitrophenol
 Concen: 4.12 ng
 RT: 9.77 min Scan# 716
 Delta R.T. 0.08 min
 Lab File: BF088496.D
 Acq: 28 Jun 2016 23:31

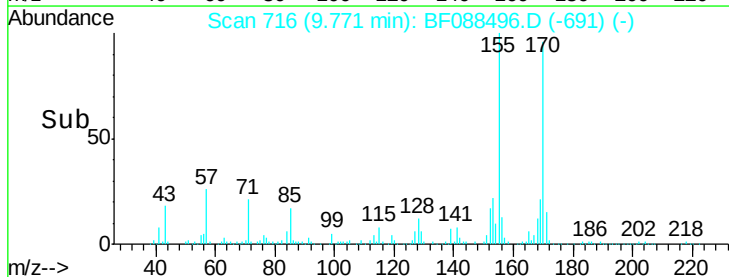
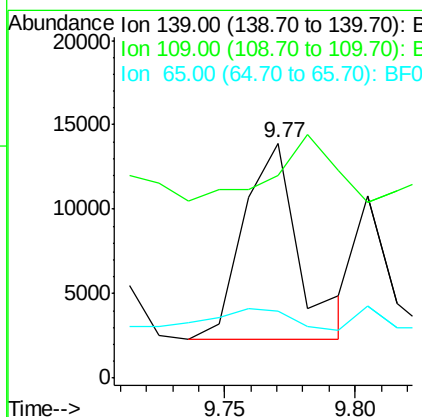
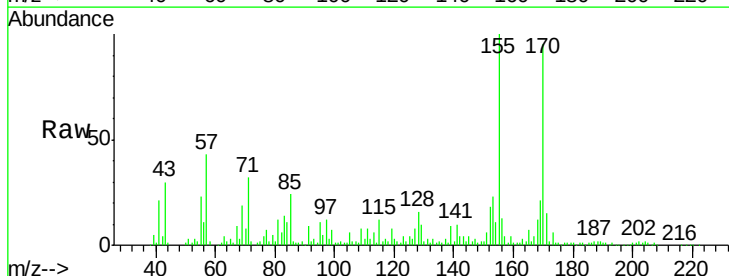
Instrument :
 BNA_F
 ClientSampled :
 1

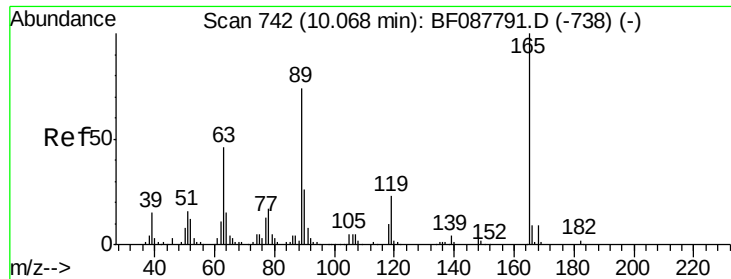
Tgt Ion:184 Resp: 942
 Ion Ratio Lower Upper
 184 100
 63 1028.1 57.6 86.4#
 154 3154.7 53.5 80.3#



#55
 4-Nitrophenol
 Concen: 9.40 ng
 RT: 9.77 min Scan# 716
 Delta R.T. -0.01 min
 Lab File: BF088496.D
 Acq: 28 Jun 2016 23:31

Tgt Ion:139 Resp: 17356
 Ion Ratio Lower Upper
 139 100
 109 86.3 48.9 88.9
 65 28.3 84.9 124.9#





#56

2,4-Dinitrotoluene

Concen: 3.54 ng

RT: 9.77 min Scan# 716

Delta R.T. -0.03 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

Instrument :

BNA_F

ClientSampled :

1

Tgt Ion:165 Resp: 9376

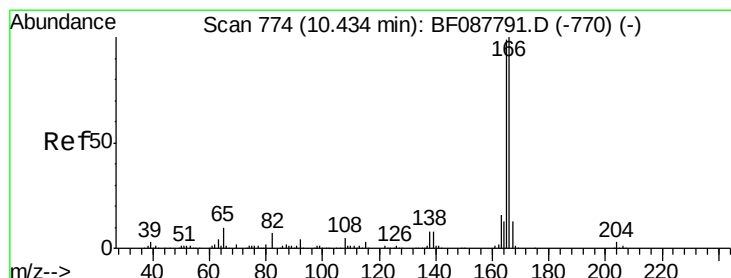
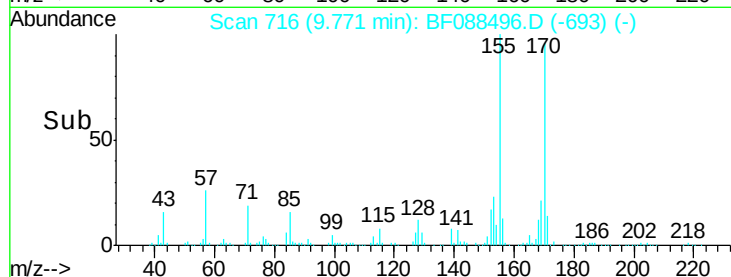
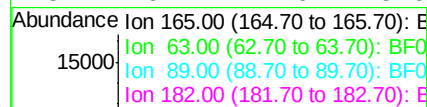
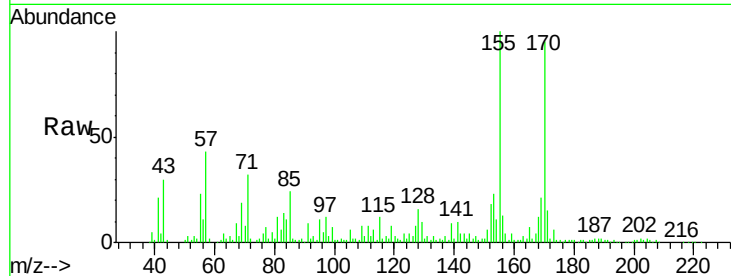
Ion Ratio Lower Upper

165 100

63 51.9 22.0 33.0#

89 27.5 41.1 61.7#

182 10.1 2.0 3.0#



#57

Fluorene

Concen: 3.70 ng

RT: 10.10 min Scan# 745

Delta R.T. -0.03 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

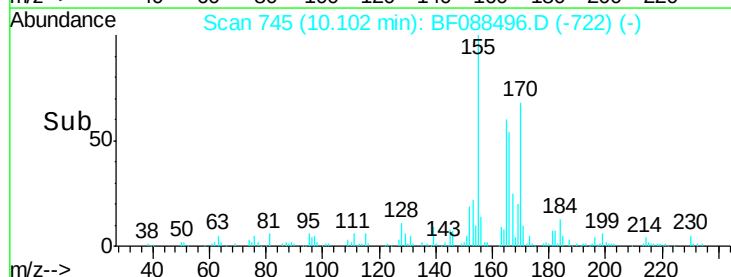
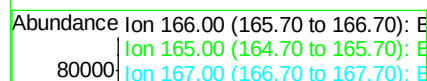
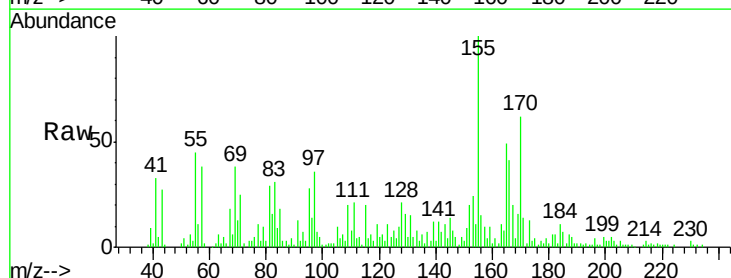
Tgt Ion:166 Resp: 60400

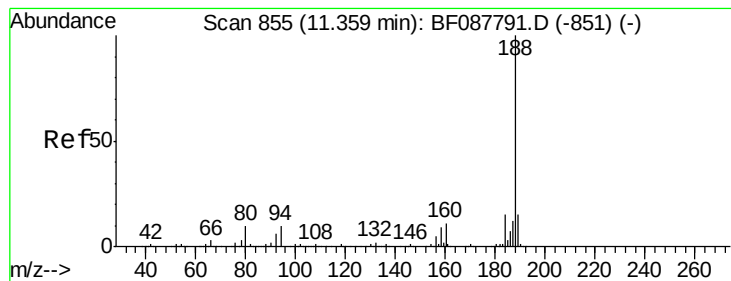
Ion Ratio Lower Upper

166 100

165 118.9 77.8 116.8#

167 48.4 11.2 16.8#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.04 min Scan# 827

Delta R.T. -0.02 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

Instrument :

BNA_F

ClientSampled :

1

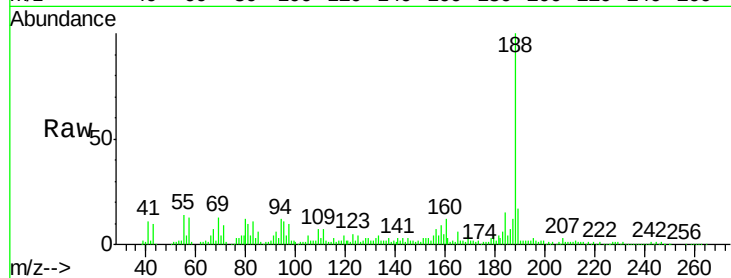
Tgt Ion:188 Resp: 205608

Ion Ratio Lower Upper

188 100

94 11.5 9.0 13.6

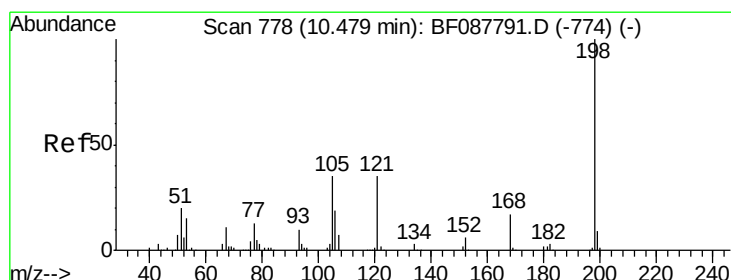
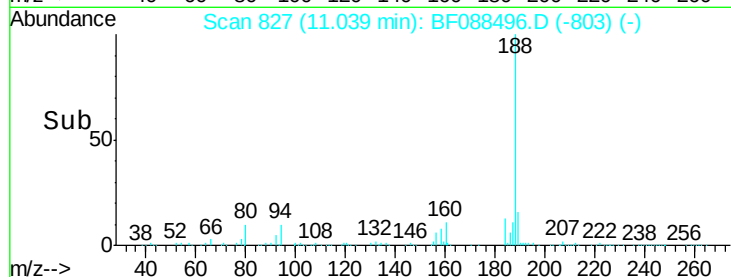
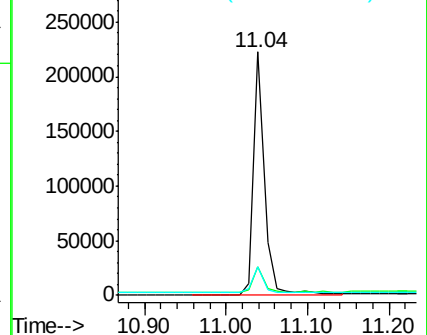
80 11.6 10.0 15.0



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



#64

4,6-Dinitro-2-methylphenol

Concen: 2.90 ng

RT: 10.18 min Scan# 752

Delta R.T. -0.03 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

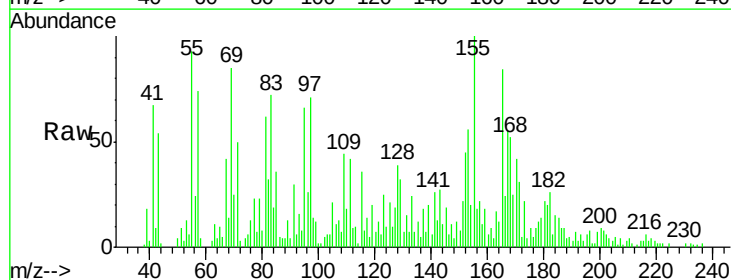
Tgt Ion:198 Resp: 994

Ion Ratio Lower Upper

198 100

51 418.6 39.6 79.6#

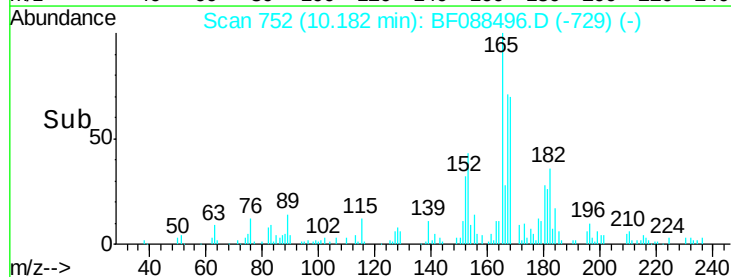
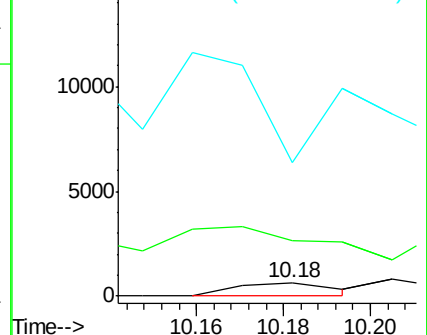
105 1003.3 36.6 76.6#

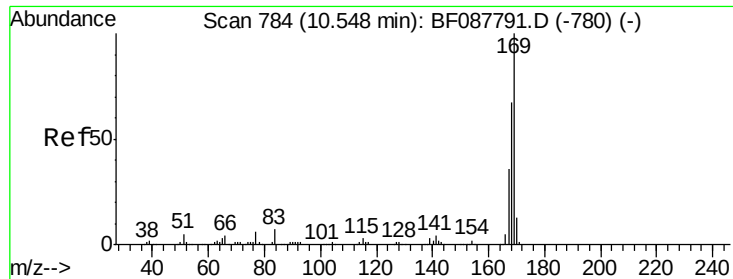


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E





#65

n-Nitrosodiphenylamine

Concen: 18.39 ng

RT: 10.23 min Scan# 756

Delta R.T. -0.02 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

Instrument :

BNA_F

ClientSampleId :

1

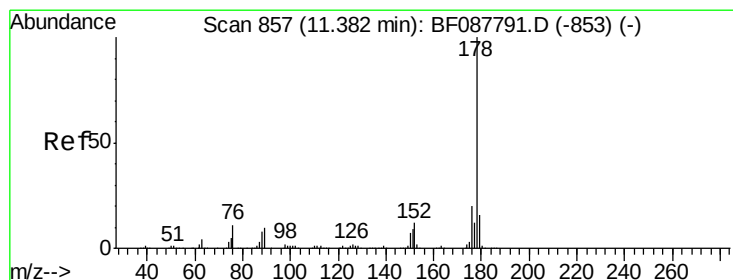
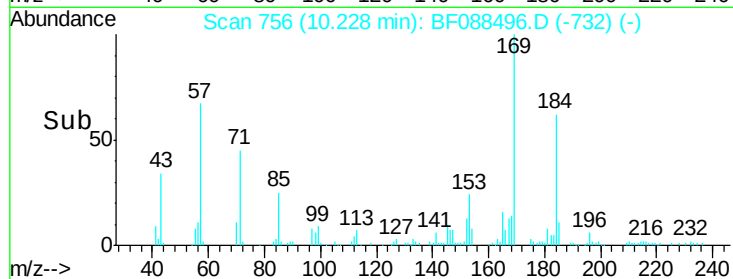
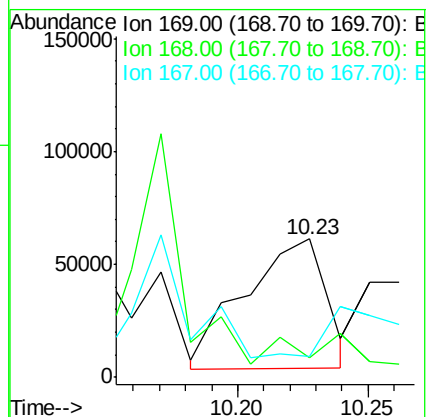
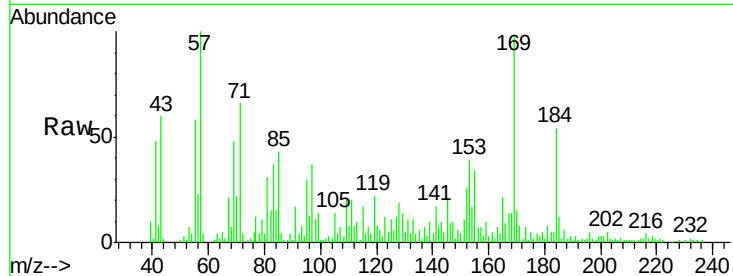
Tgt Ion:169 Resp: 125460

Ion Ratio Lower Upper

169 100

168 14.4 53.4 80.0#

167 14.7 29.4 44.0#



#70

Phenanthrene

Concen: 16.77 ng

RT: 11.06 min Scan# 829

Delta R.T. -0.02 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

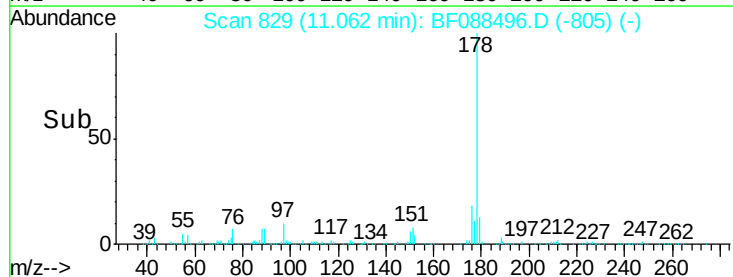
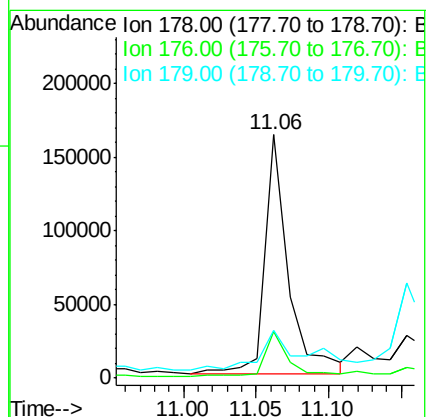
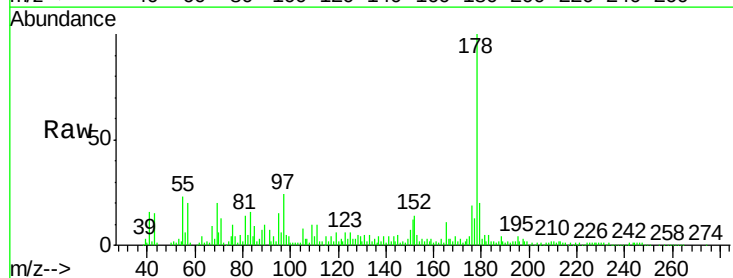
Tgt Ion:178 Resp: 180975

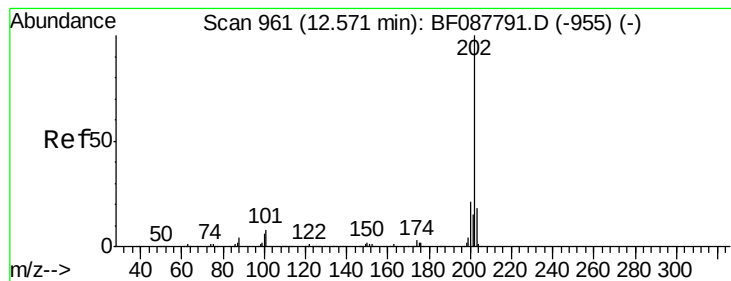
Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.6

179 19.7 13.0 19.4#

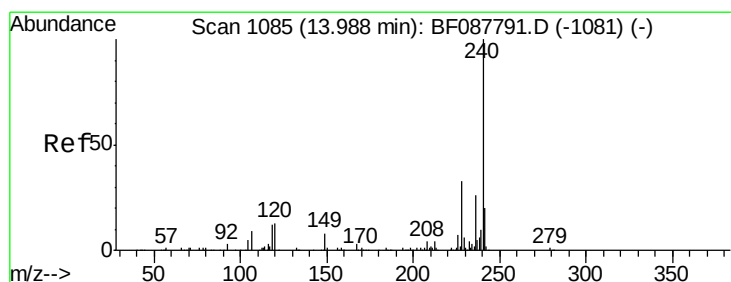
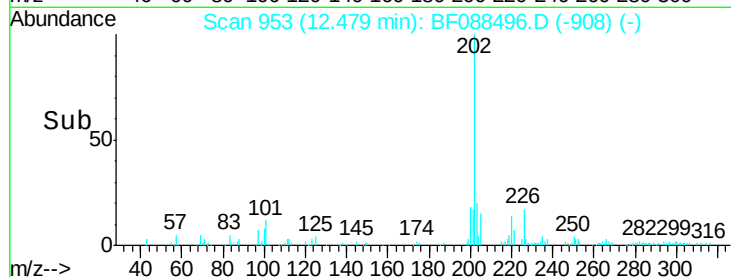
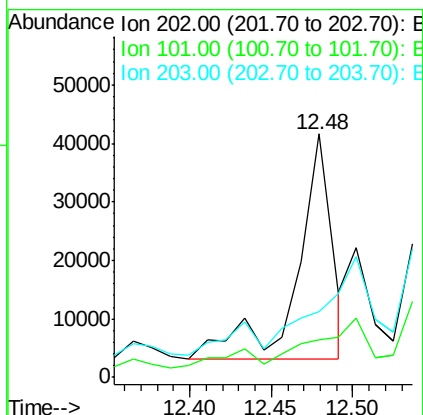
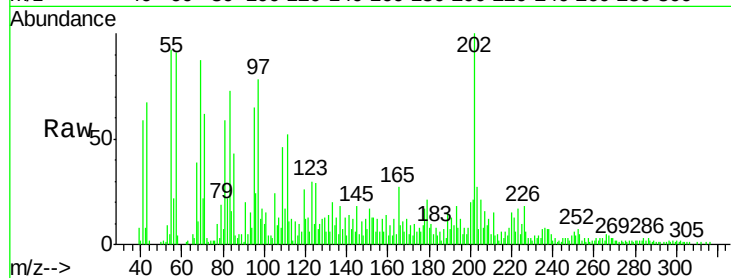




#74
Fluoranthene
Concen: 5.10 ng
RT: 12.48 min Scan# 953
Delta R.T. 0.22 min
Lab File: BF088496.D
Acq: 28 Jun 2016 23:31

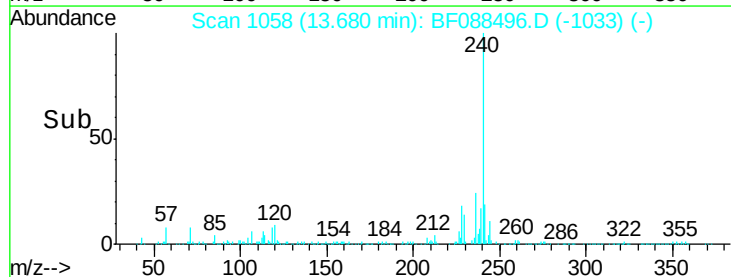
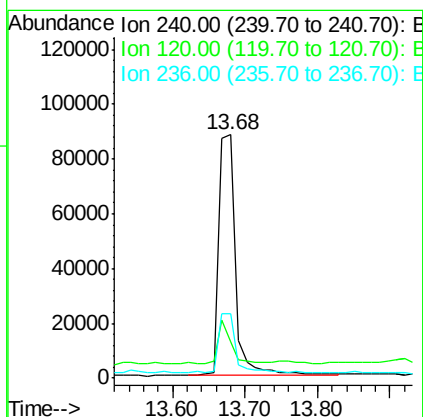
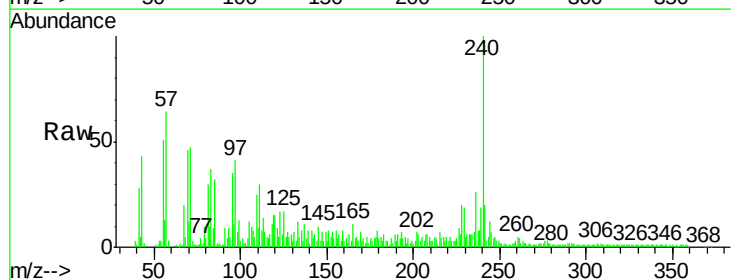
Instrument :
BNA_F
ClientSampleId :
1

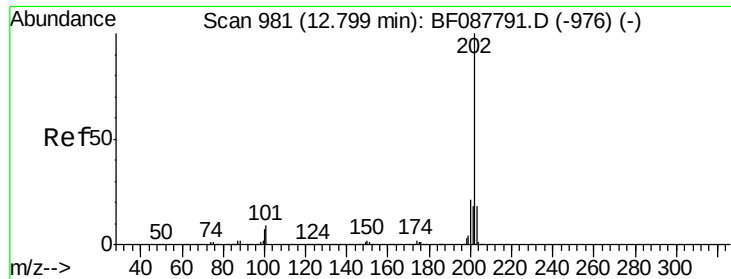
Tgt Ion:	202	Resp:	58097
Ion	Ratio	Lower	Upper
202	100		
101	15.2	0.0	33.1
203	26.8	0.0	38.1



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.68 min Scan# 1058
Delta R.T. -0.01 min
Lab File: BF088496.D
Acq: 28 Jun 2016 23:31

Tgt Ion:	240	Resp:	141706
Ion	Ratio	Lower	Upper
240	100		
120	14.8	6.8	10.2#
236	26.3	20.2	30.2





#77

Pyrene

Concen: 7.36 ng

RT: 12.48 min Scan# 953

Delta R.T. -0.01 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

Instrument :

BNA_F

ClientSampled :

1

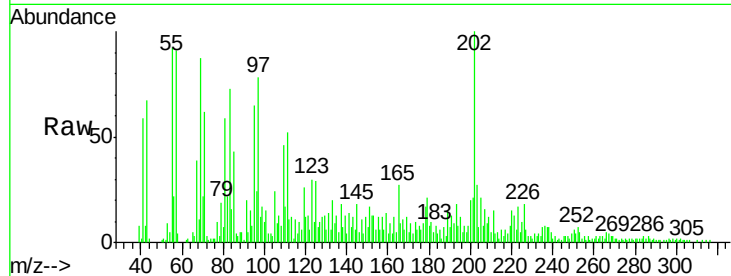
Tgt Ion:202 Resp: 77386

Ion Ratio Lower Upper

202 100

200 20.4 17.4 26.2

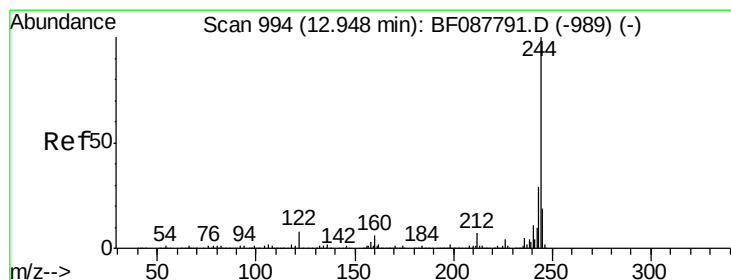
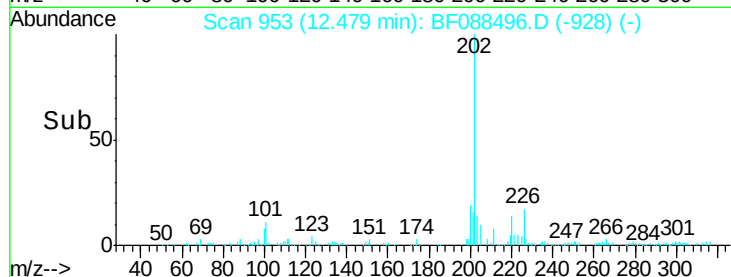
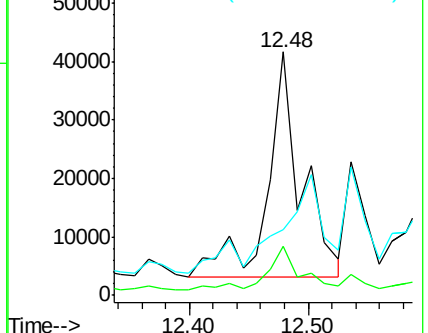
203 26.8 14.5 21.7#



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: 74.58 ng

RT: 12.63 min Scan# 966

Delta R.T. -0.01 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

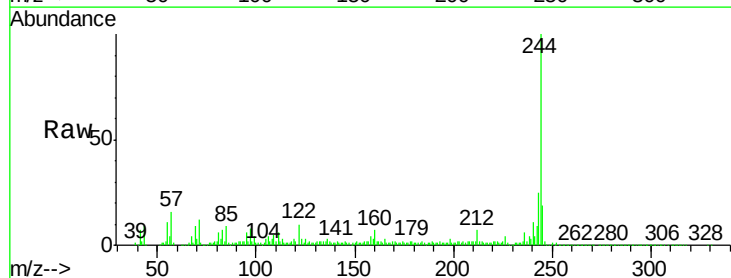
Tgt Ion:244 Resp: 464456

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

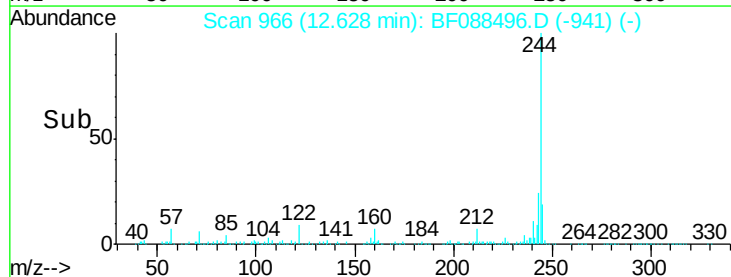
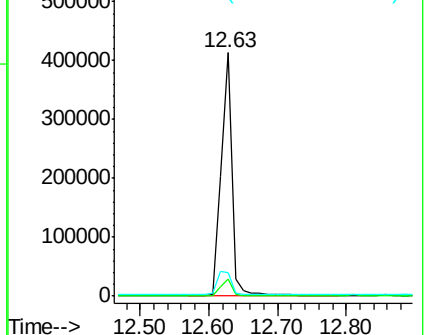
122 9.8 11.2 16.8#

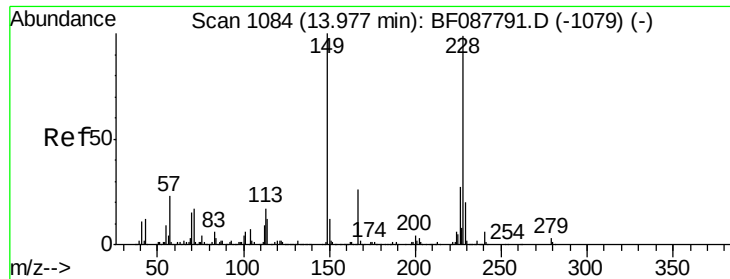


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 8.31 ng

RT: 13.70 min Scan# 1060

Delta R.T. 0.03 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

Instrument :

BNA_F

ClientSampleId :

1

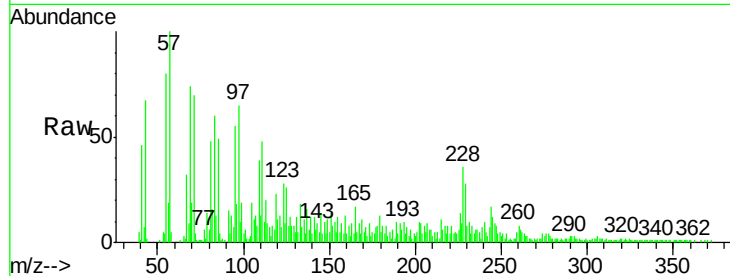
Tgt Ion:228 Resp: 67078

Ion Ratio Lower Upper

228 100

226 40.3 22.3 33.5#

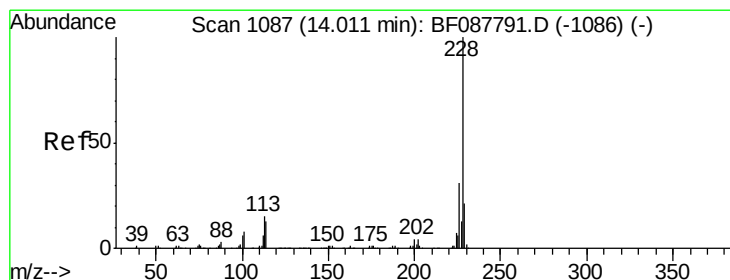
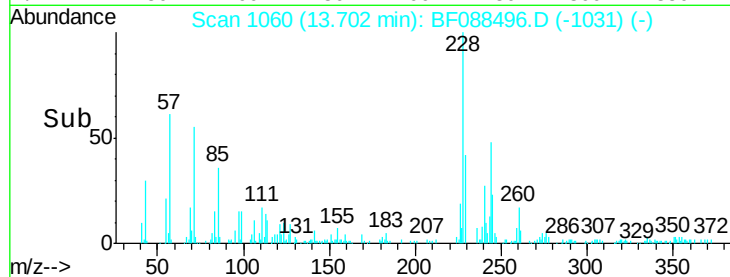
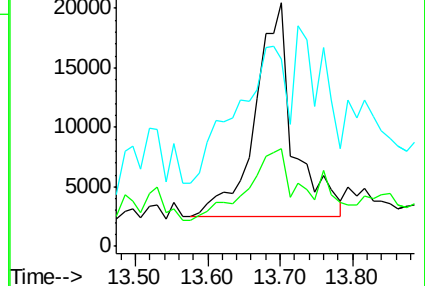
229 77.1 16.0 24.0#



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: 8.83 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.01 min

Lab File: BF088496.D

Acq: 28 Jun 2016 23:31

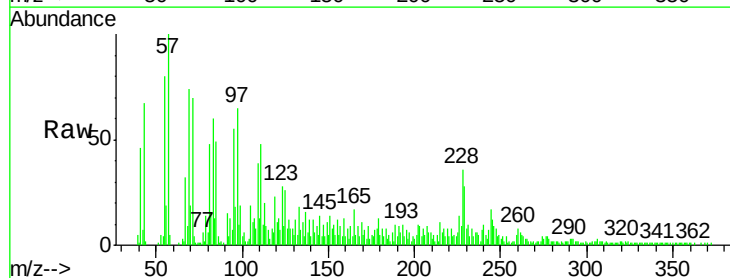
Tgt Ion:228 Resp: 67078

Ion Ratio Lower Upper

228 100

226 40.3 25.4 38.2#

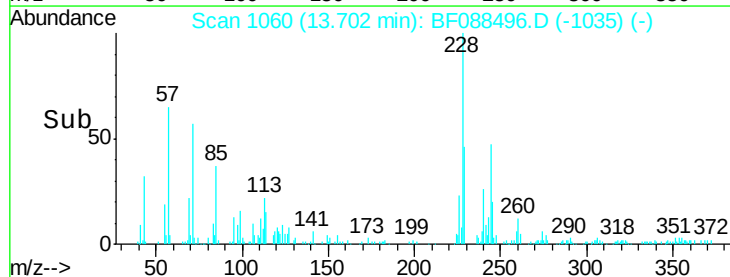
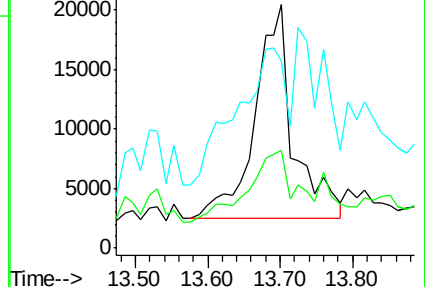
229 77.1 16.3 24.5#

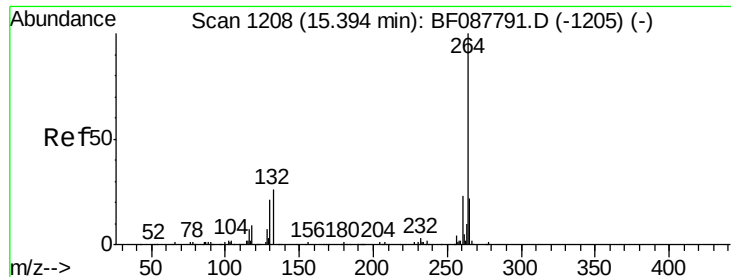


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

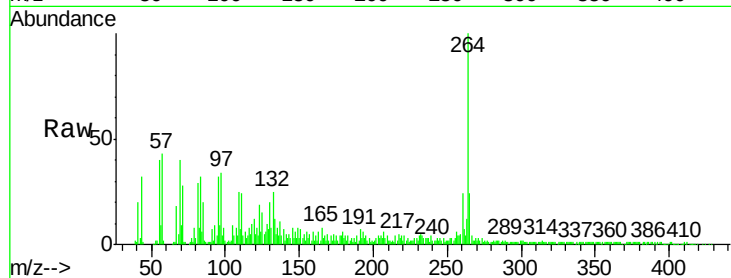




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.03 min Scan# 1176
Delta R.T. 0.00 min
Lab File: BF088496.D
Acq: 28 Jun 2016 23:31

Instrument :
BNA_F
ClientSampleId :
1

Tgt Ion: 264 Resp: 131353
Ion Ratio Lower Upper
264 100
260 24.3 19.2 28.8
265 23.8 16.9 25.3



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

