

Data Path : Z:\HPCHEM1\BNA_F\Data\BF051716\
 Data File : BF087140.D
 Acq On : 18 May 2016 9:30
 Operator : UM/SJ
 Sample : H2968-07RE 2X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUPBRE

Quant Time: May 18 13:26:38 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	110004	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	438457	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	184080	20.00	ng	-0.01
63) Phenanthrene-d10	11.11	188	283221	20.00	ng	-0.01
75) Chrysene-d12	13.74	240	218342	20.00	ng	-0.02
86) Perylene-d12	15.11	264	171796	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.18	112	539607	82.45	ng	-0.02
7) Phenol-d6	6.26	99	745552	84.94	ng	-0.02
23) Nitrobenzene-d5	7.16	82	459617	52.24	ng	-0.02
41) 2,4,6-Tribromophenol	10.42	330	128968	63.40	ng	-0.02
44) 2-Fluorobiphenyl	8.96	172	688131	61.91	ng	-0.02
78) Terphenyl-d14	12.70	244	461546	47.82	ng	-0.01

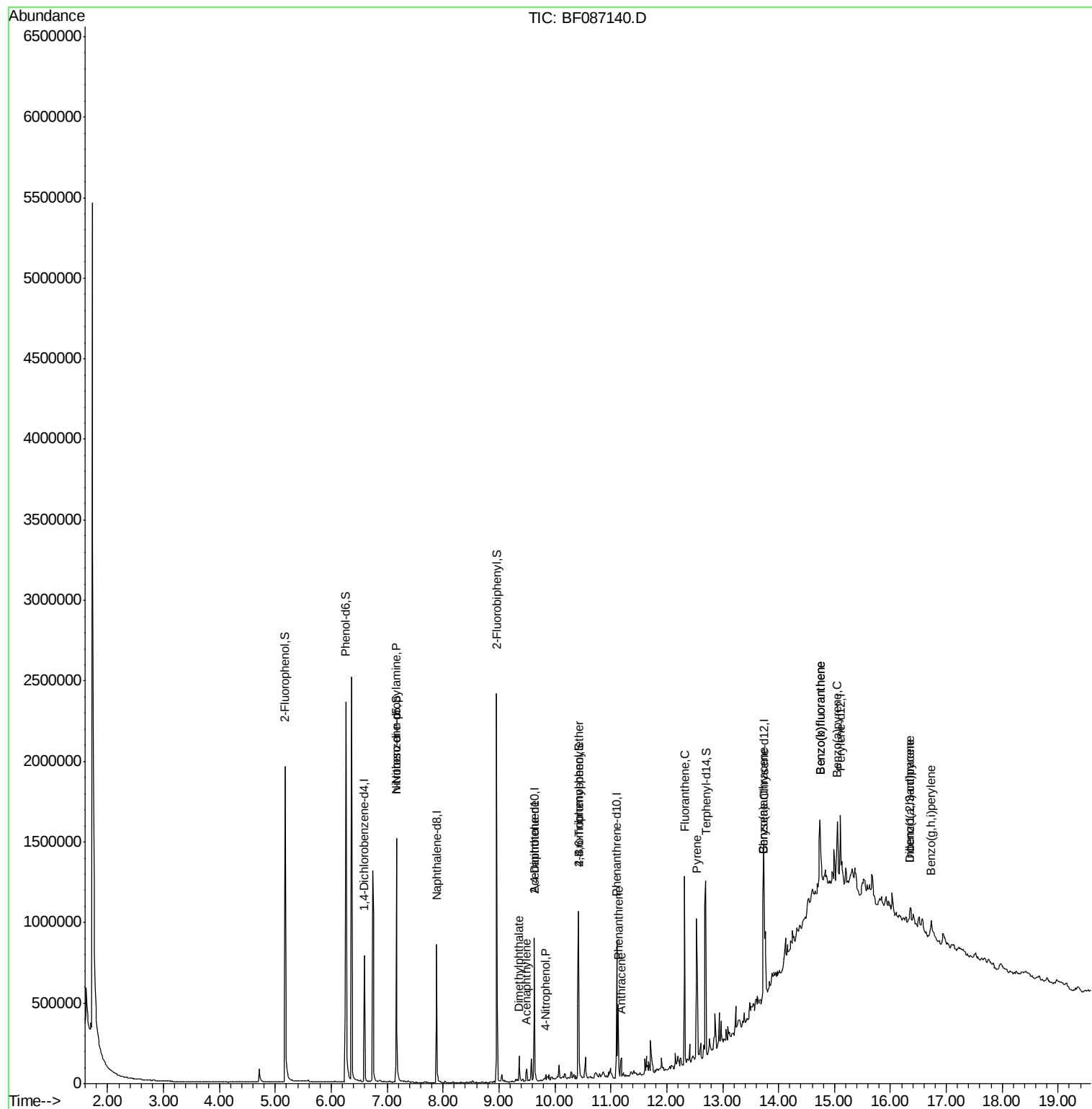
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.26	77	1083	Below Cal		# 4
19) n-Nitroso-di-n-propylamine	7.16	70	65331	9.79	ng	# 72
48) Acenaphthylene	9.50	152	42206	2.36	ng	97
49) Dimethylphthalate	9.36	163	63082	4.49	ng	99
55) 4-Nitrophenol	9.84	139	2842	2.92	ng	# 37
56) 2,4-Dinitrotoluene	9.63	165	23531	6.03	ng	# 16
66) 4-Bromophenyl-phenylether	10.42	248	7887	2.71	ng	# 1
70) Phenanthrene	11.13	178	155336	10.11	ng	99
71) Anthracene	11.19	178	74307	4.78	ng	98
74) Fluoranthene	12.32	202	527056	34.25	ng	92
77) Pyrene	12.54	202	412697	26.16	ng	97
80) Benzo(a)anthracene	13.73	228	281235	22.28	ng	93
82) Chrysene	13.73	228	281235	23.02	ng	95
85) Indeno(1,2,3-cd)pyrene	16.35	276	70434	6.57	ng	93
87) Benzo(b)fluoranthene	14.74	252	304859	26.75	ng	97
88) Benzo(k)fluoranthene	14.74	252	304859	35.93	ng	# 94
89) Benzo(a)pyrene	15.05	252	142325	14.94	ng	# 90
90) Dibenzo(a,h)anthracene	16.35	278	21779	2.72	ng	# 51
91) Benzo(g,h,i)perylene	16.73	276	61154	7.55	ng	# 93

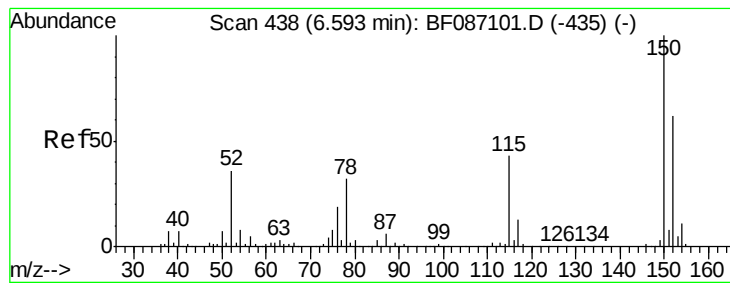
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Instrument :

BNA_F

ClientSampleId :

DUPBRE

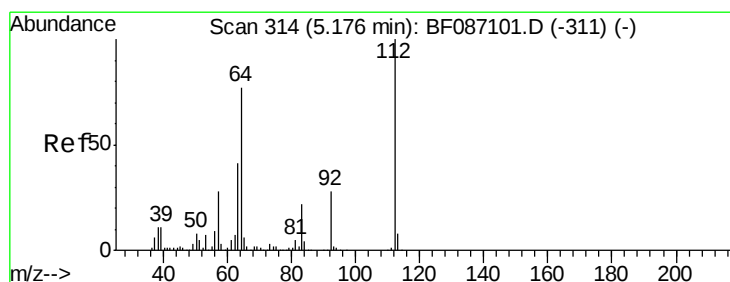
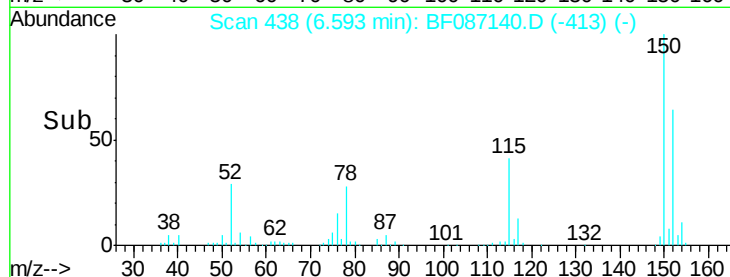
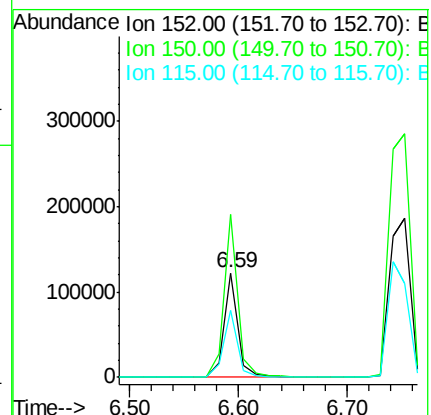
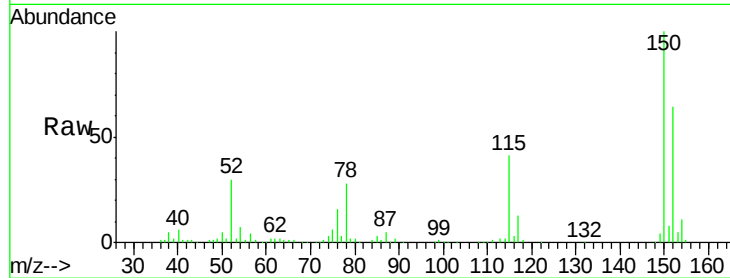
Tgt Ion:152 Resp: 110004

Ion Ratio Lower Upper

152 100

150 156.9 125.8 188.6

115 63.7 51.5 77.3



#5

2-Fluorophenol

Concen: 82.45 ng

RT: 5.18 min Scan# 314

Delta R.T. -0.02 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

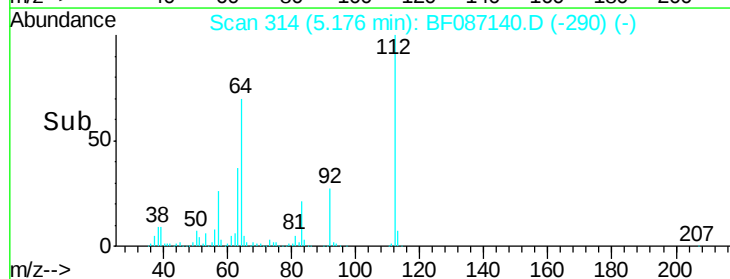
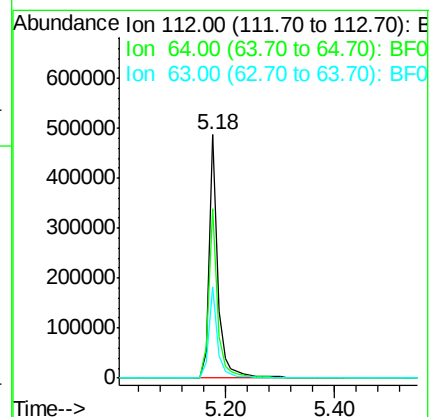
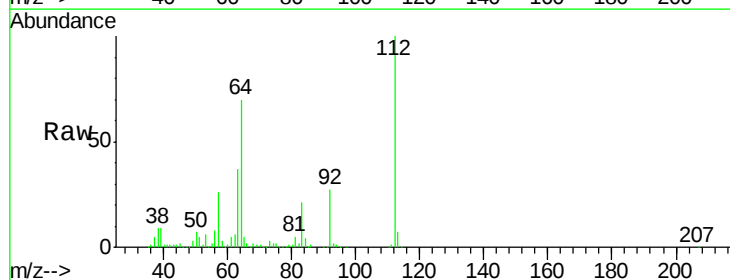
Tgt Ion:112 Resp: 539607

Ion Ratio Lower Upper

112 100

64 69.5 52.1 78.1

63 37.4 25.7 38.5





#7

Phenol-d6

Concen: 84.94 ng

RT: 6.26 min Scan# 409

Delta R.T. -0.02 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Instrument :

BNA_F

ClientSampleId :

DUPBRE

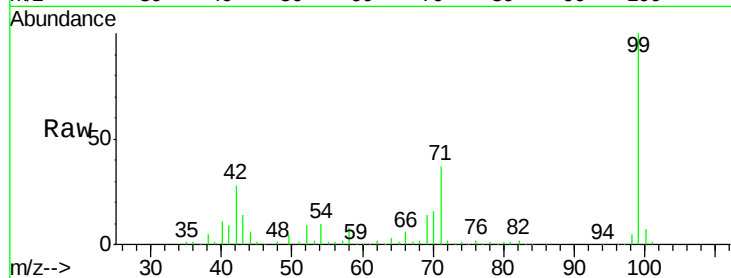
Tgt Ion: 99 Resp: 745552

Ion Ratio Lower Upper

99 100

42 27.6 13.6 20.4#

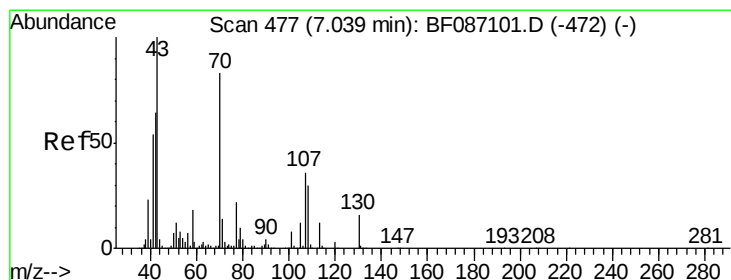
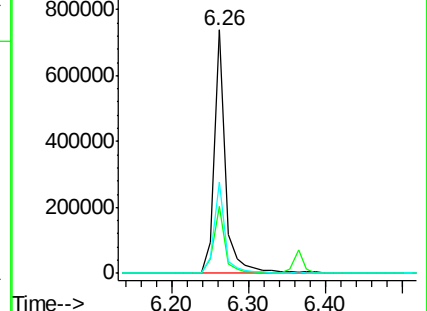
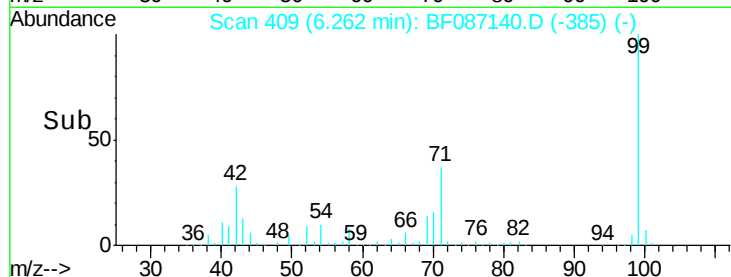
71 37.3 24.6 36.8#



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



#19

n-Nitroso-di-n-propylamine

Concen: 9.79 ng

RT: 7.16 min Scan# 488

Delta R.T. 0.11 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Tgt Ion: 70 Resp: 65331

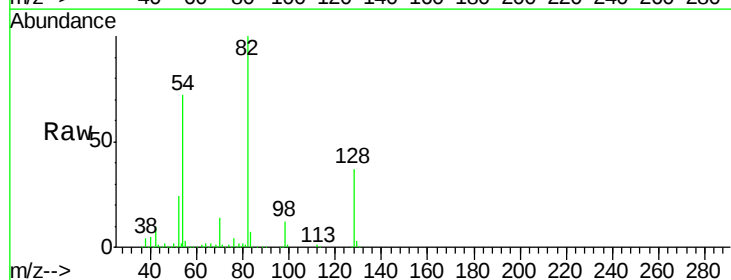
Ion Ratio Lower Upper

70 100

42 69.0 43.1 64.7#

101 0.0 8.1 12.1#

130 1.9 18.6 28.0#

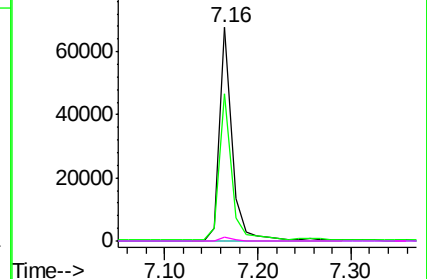
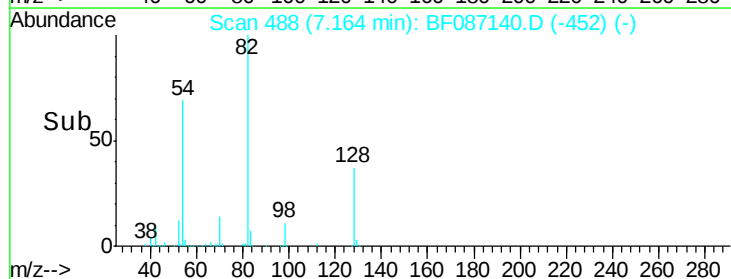


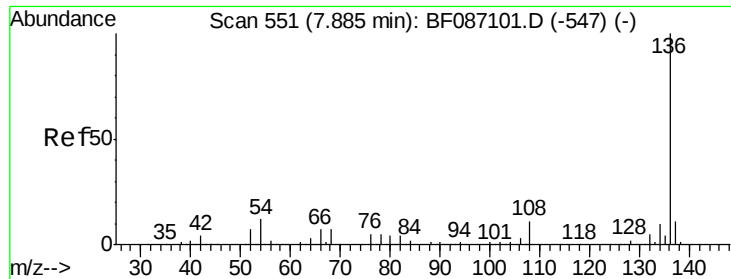
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

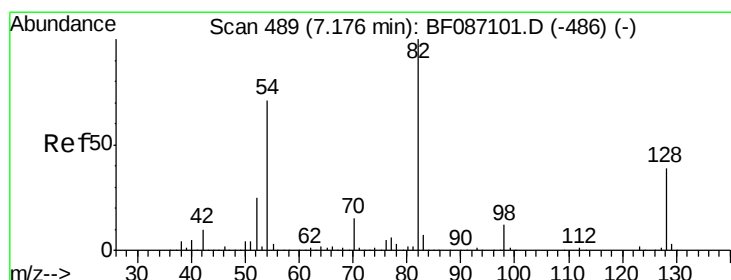
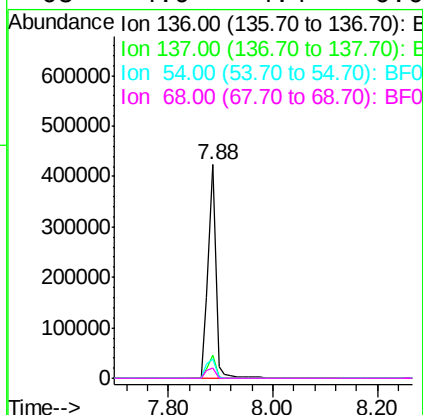
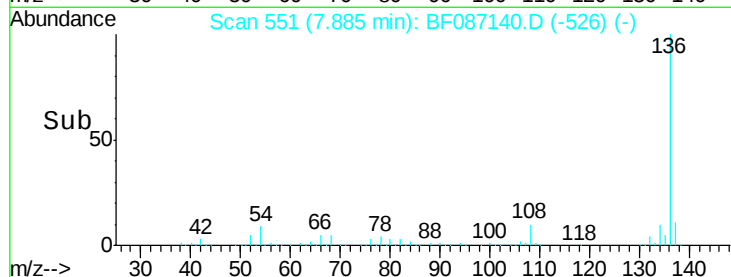
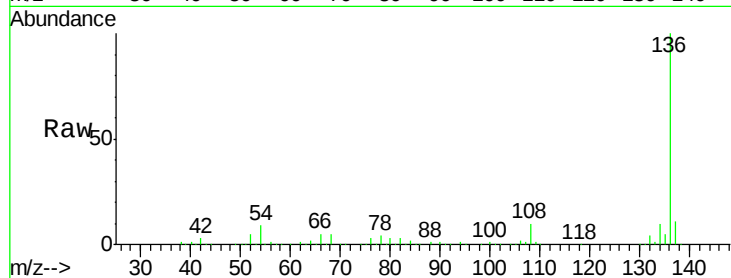




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.88 min Scan# 551
Delta R.T. -0.01 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

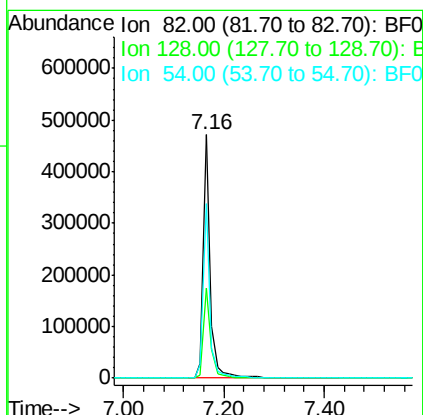
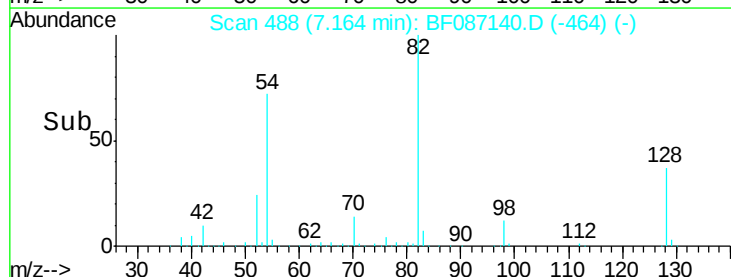
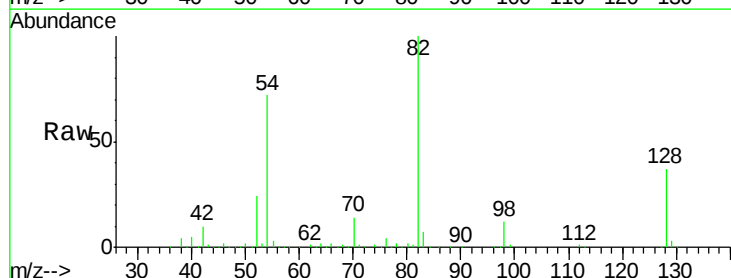
Instrument :
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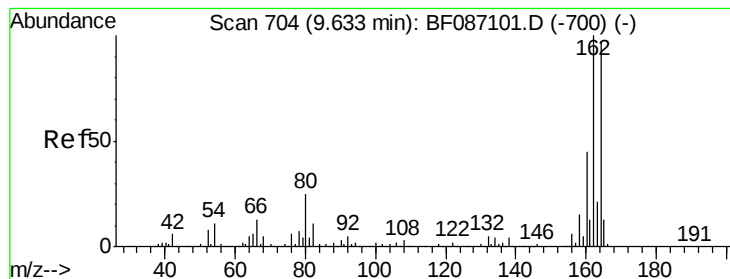
Tgt Ion:	136	Resp:	438457
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	8.9	5.0	7.4#
68	4.9	4.4	6.6



#23
Nitrobenzene-d5
Concen: 52.24 ng
RT: 7.16 min Scan# 488
Delta R.T. -0.02 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

Tgt Ion:	82	Resp:	459617
Ion	Ratio	Lower	Upper
82	100		
128	36.8	40.6	61.0#
54	71.7	38.1	57.1#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.63 min Scan# 704

Delta R.T. -0.01 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Instrument :

BNA_F

ClientSampleId :

DUPBRE

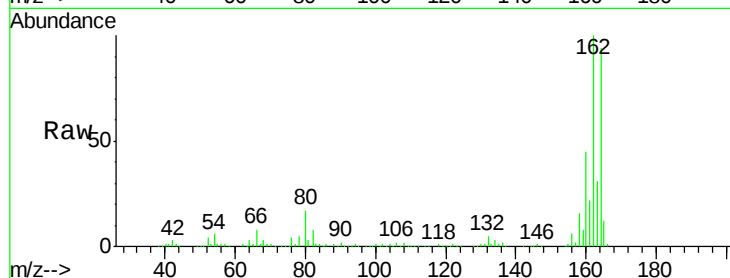
Tgt Ion:164 Resp: 184080

Ion Ratio Lower Upper

164 100

162 106.0 82.8 124.2

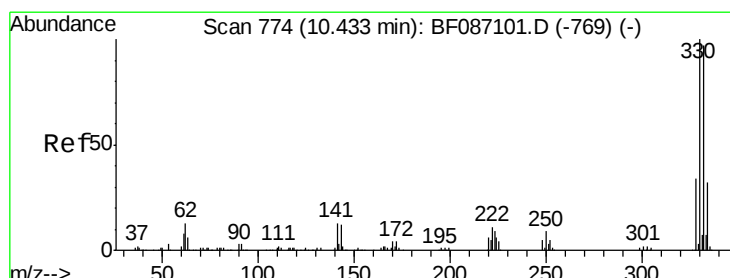
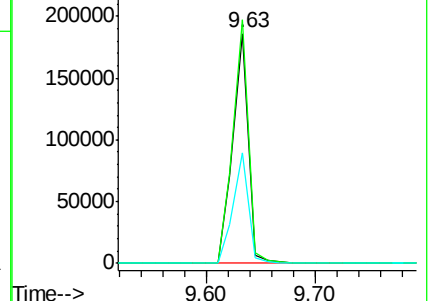
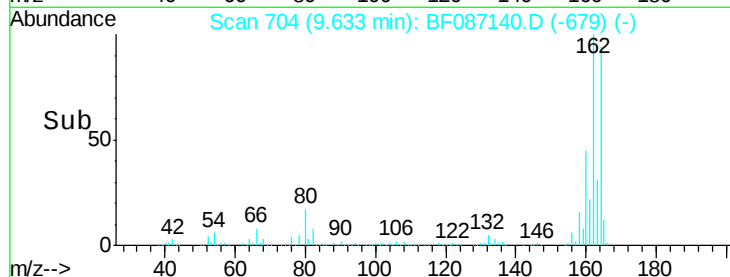
160 48.2 36.9 55.3



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: 63.40 ng

RT: 10.42 min Scan# 773

Delta R.T. -0.02 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

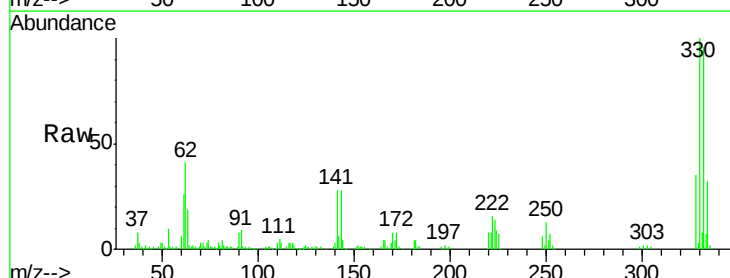
Tgt Ion:330 Resp: 128968

Ion Ratio Lower Upper

330 100

332 96.4 79.0 118.4

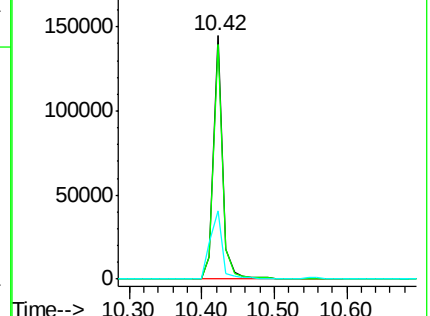
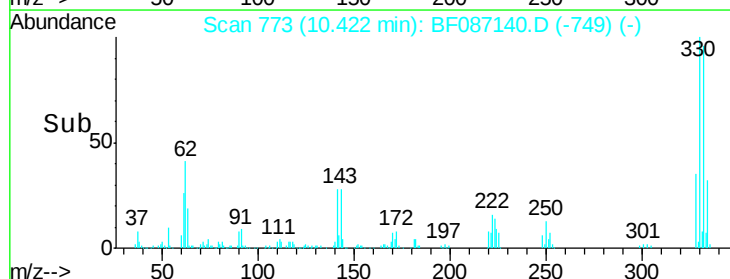
141 38.0 31.2 46.8

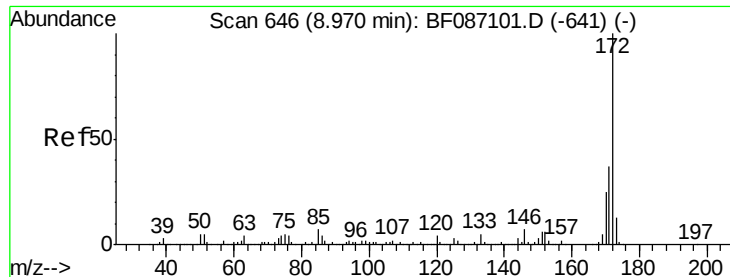


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

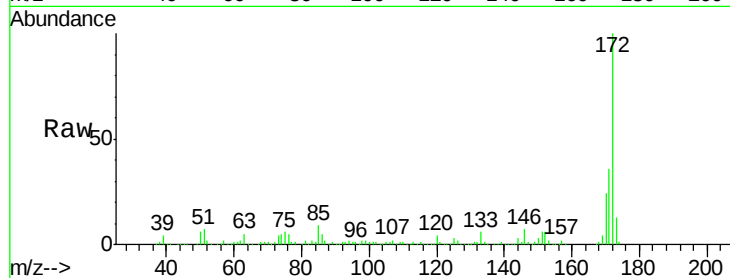




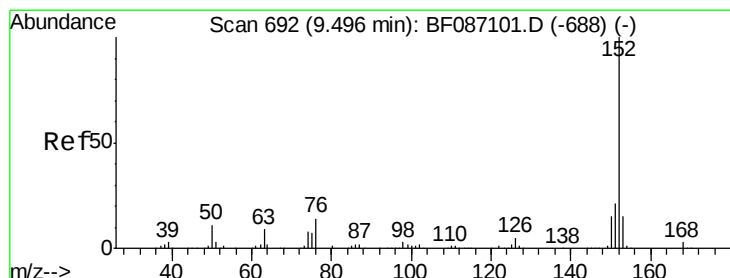
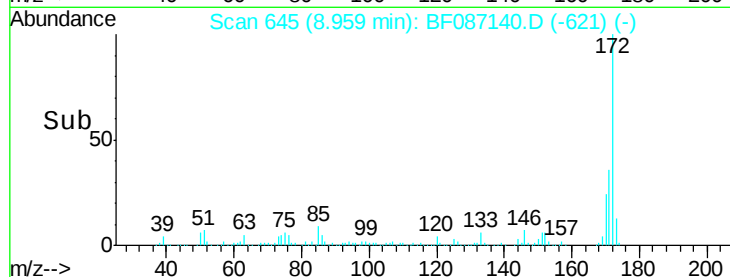
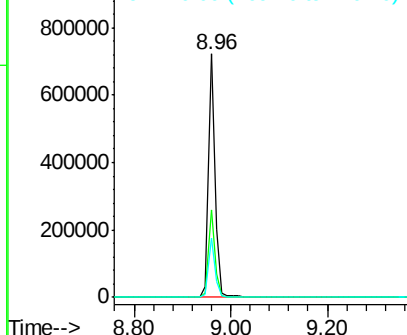
#44
2-Fluorobiphenyl
Concen: 61.91 ng
RT: 8.96 min Scan# 645
Delta R.T. -0.02 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

Instrument :
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DUPBRE

Tgt Ion:172 Resp: 688131
Ion Ratio Lower Upper
172 100
171 35.7 29.0 43.6
170 24.5 19.8 29.8

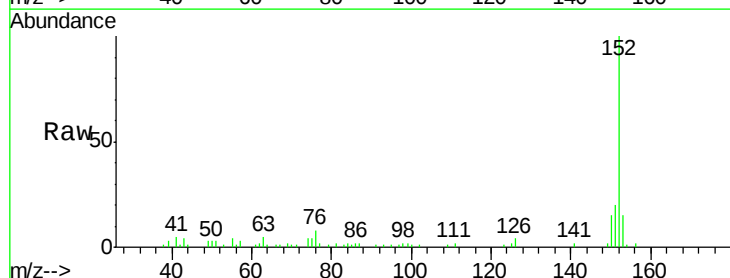


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

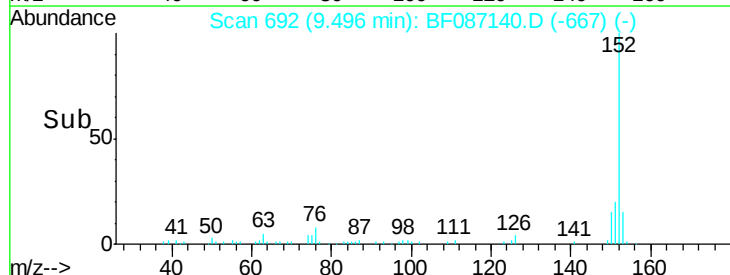
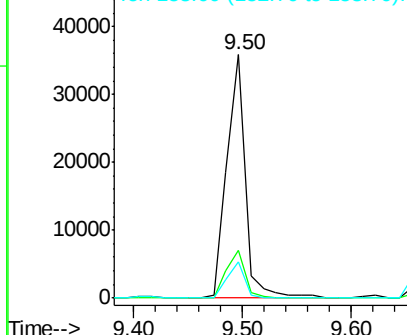


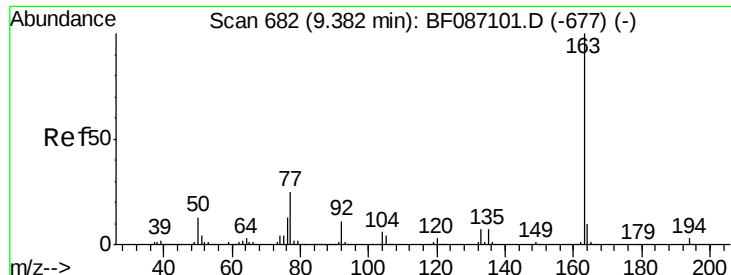
#48
Acenaphthylene
Concen: 2.36 ng
RT: 9.50 min Scan# 692
Delta R.T. -0.01 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

Tgt Ion:152 Resp: 42206
Ion Ratio Lower Upper
152 100
151 19.9 16.8 25.2
153 14.7 10.9 16.3



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

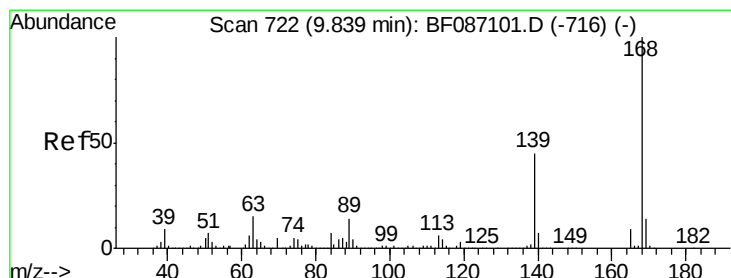
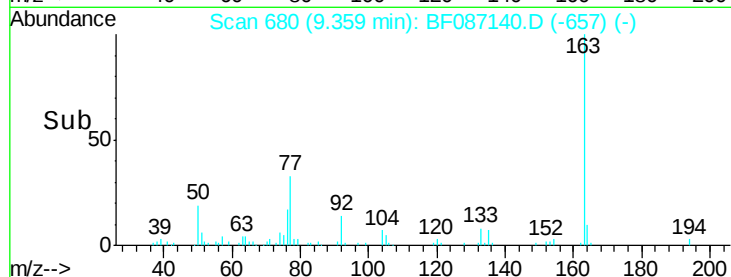
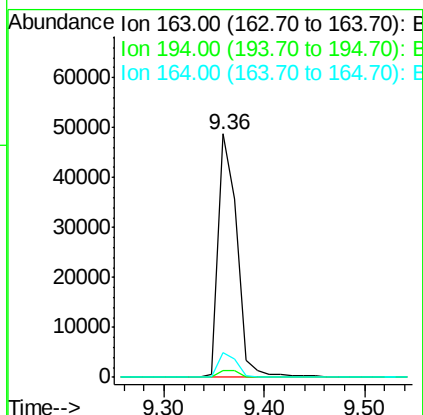
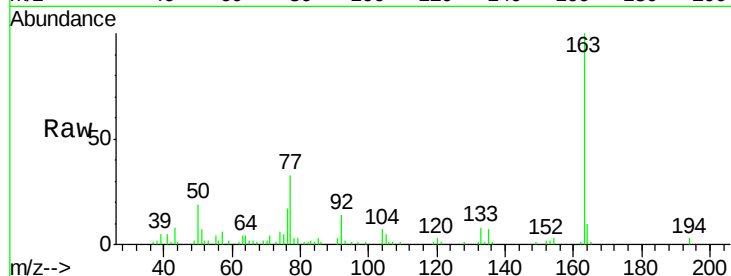




#49
Dimethylphthalate
Concen: 4.49 ng
RT: 9.36 min Scan# 680
Delta R.T. -0.03 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

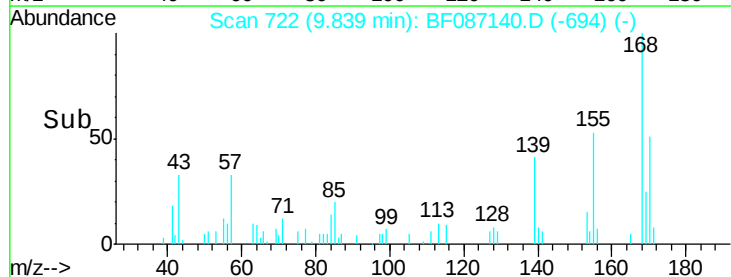
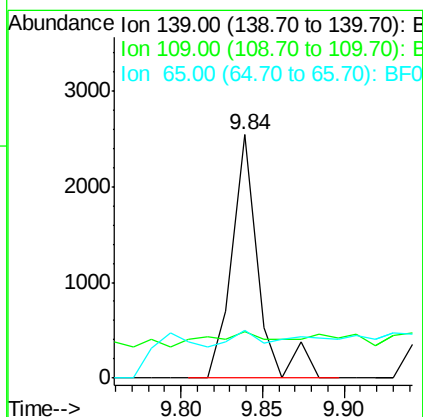
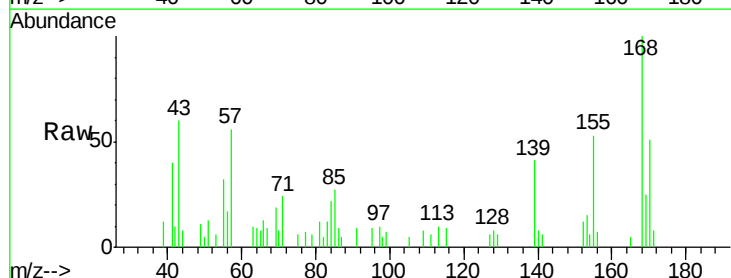
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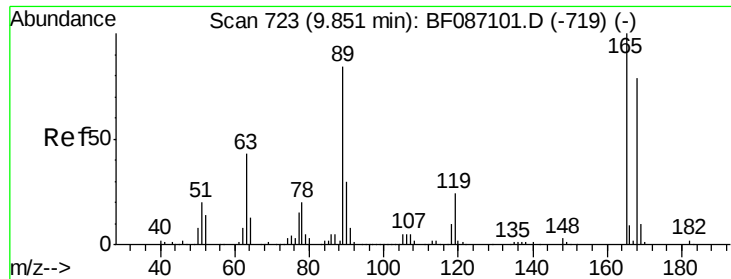
Tgt Ion:163 Resp: 63082
Ion Ratio Lower Upper
163 100
194 2.7 2.6 4.0
164 10.1 8.2 12.4



#55
4-Nitrophenol
Concen: 2.92 ng
RT: 9.84 min Scan# 722
Delta R.T. 0.02 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

Tgt Ion:139 Resp: 2842
Ion Ratio Lower Upper
139 100
109 19.0 36.9 76.9#
65 19.4 64.0 104.0#

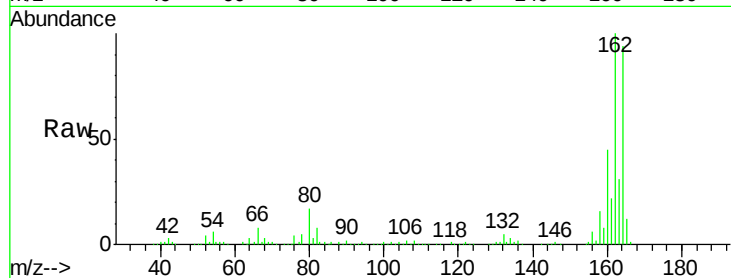




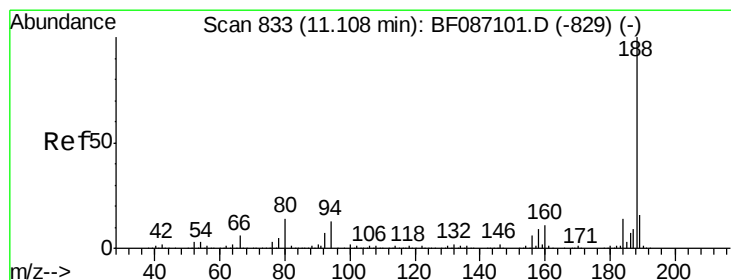
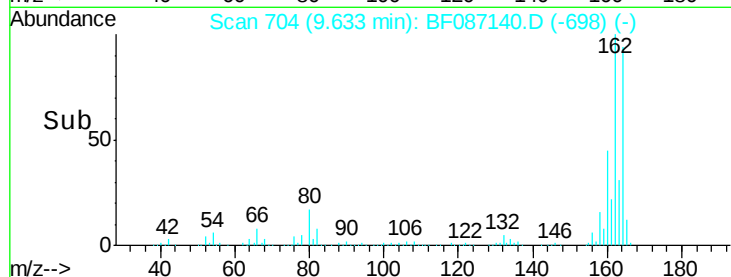
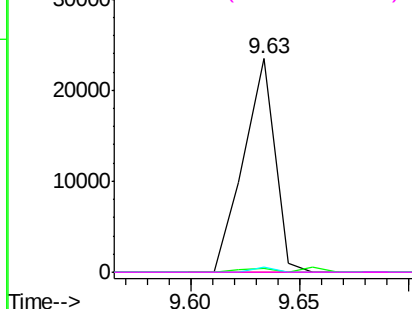
#56
2,4-Dinitrotoluene
Concen: 6.03 ng
RT: 9.63 min Scan# 704
Delta R.T. -0.23 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

Instrument :
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ClientSampleId :
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Tgt Ion:165 Resp: 23531
Ion Ratio Lower Upper
165 100
63 2.0 44.3 66.5#
89 2.3 70.0 105.0#
182 0.0 1.8 2.6#

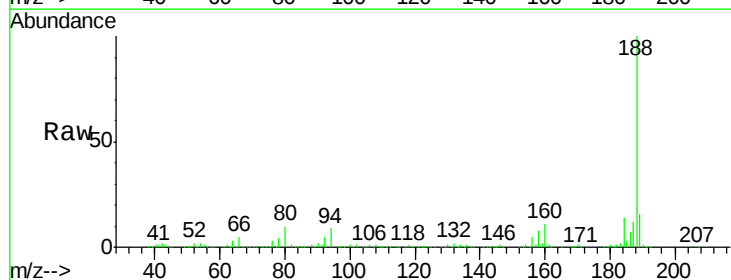


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

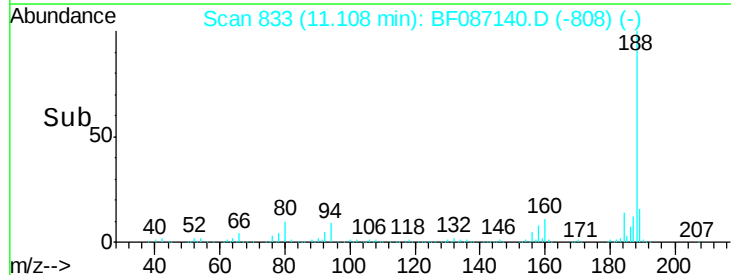
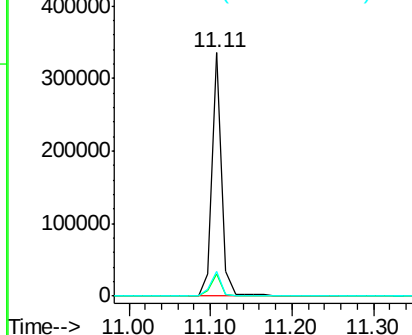


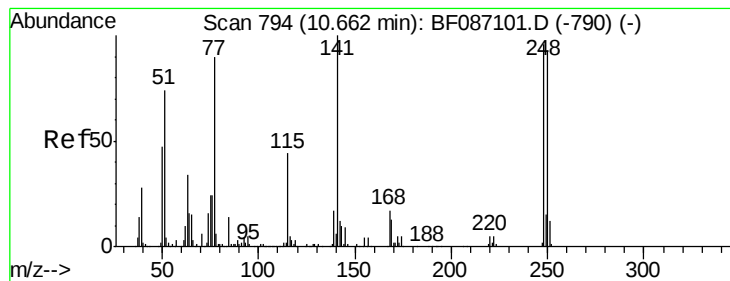
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.11 min Scan# 833
Delta R.T. -0.01 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

Tgt Ion:188 Resp: 283221
Ion Ratio Lower Upper
188 100
94 9.4 6.8 10.2
80 10.3 7.1 10.7



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





#66

4-Bromophenyl-phenylether

Concen: 2.71 ng

RT: 10.42 min Scan# 773

Delta R.T. -0.25 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Instrument :

BNA_F

ClientSampled :

DUPBRE

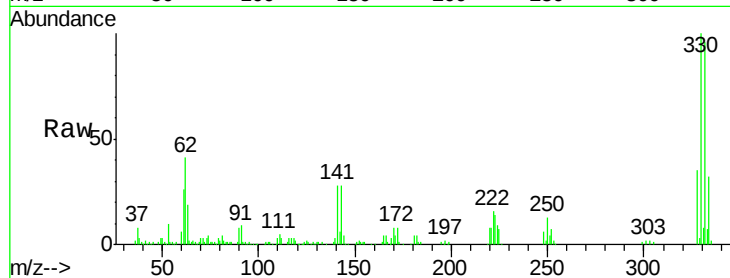
Tgt Ion:248 Resp: 7887

Ion Ratio Lower Upper

248 100

250 207.5 78.6 117.8#

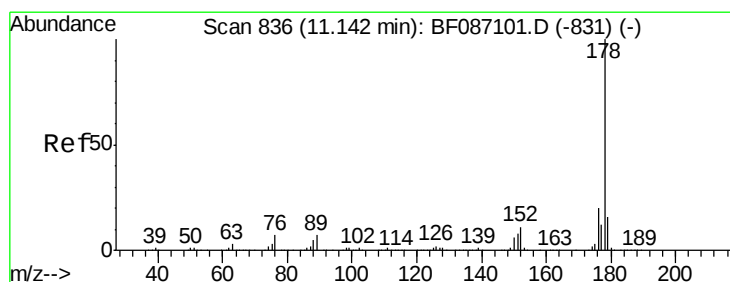
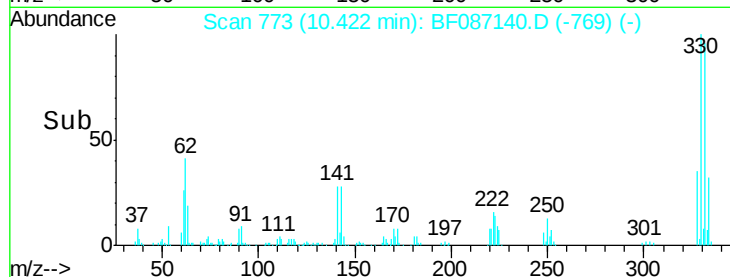
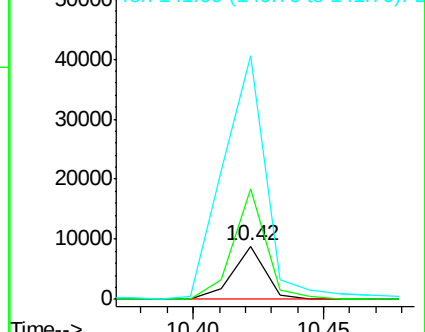
141 458.3 76.0 114.0#



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: 10.11 ng

RT: 11.13 min Scan# 835

Delta R.T. -0.02 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

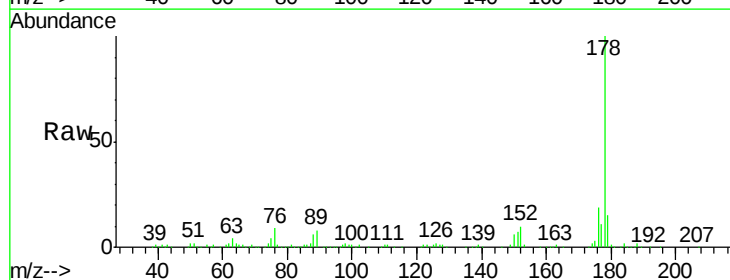
Tgt Ion:178 Resp: 155336

Ion Ratio Lower Upper

178 100

176 19.2 16.0 24.0

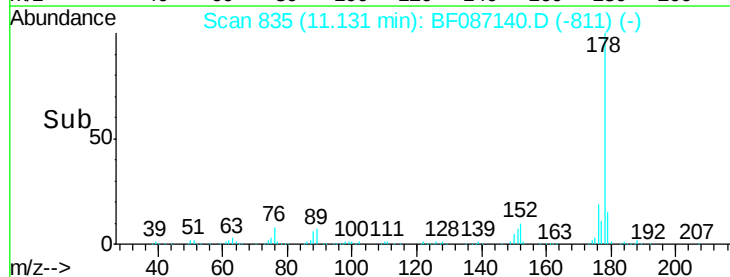
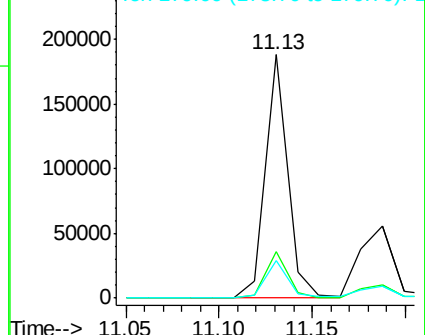
179 15.3 12.6 18.8

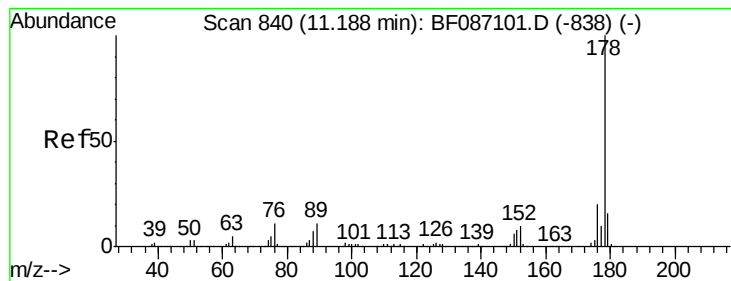


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 4.78 ng

RT: 11.19 min Scan# 840

Delta R.T. -0.01 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Instrument :

BNA_F

ClientSampleId :

DUPBRE

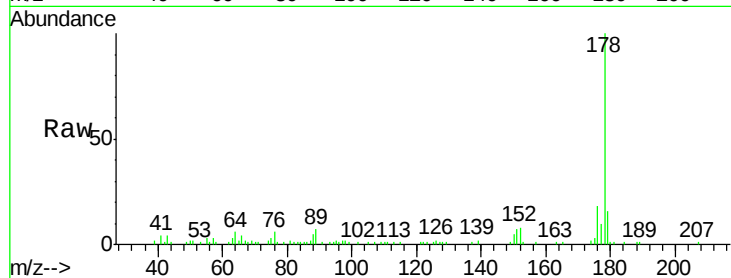
Tgt Ion:178 Resp: 74307

Ion Ratio Lower Upper

178 100

176 17.6 15.6 23.4

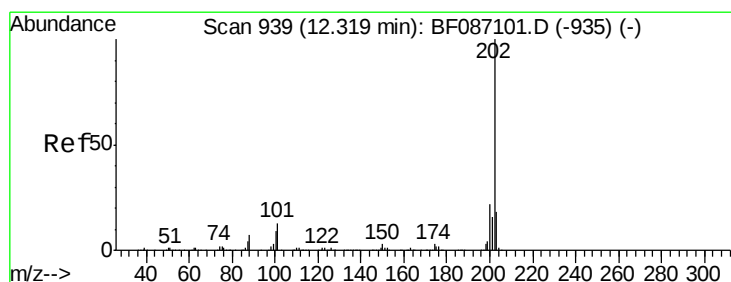
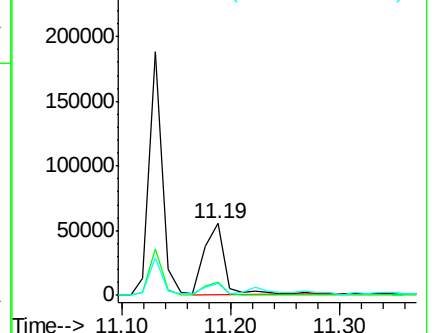
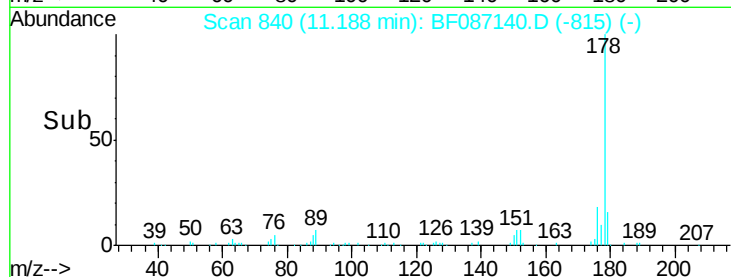
179 16.0 12.7 19.1



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: 34.25 ng

RT: 12.32 min Scan# 939

Delta R.T. -0.01 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

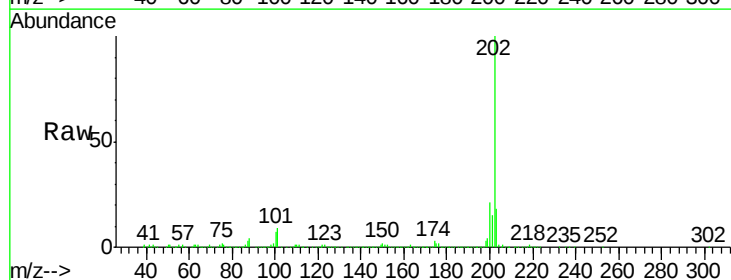
Tgt Ion:202 Resp: 527056

Ion Ratio Lower Upper

202 100

101 9.0 0.0 35.4

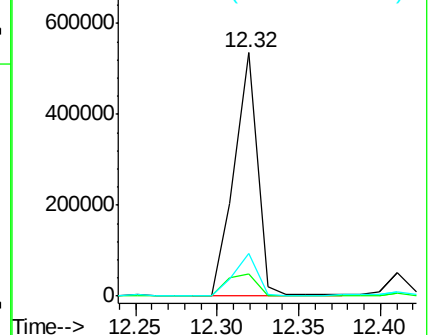
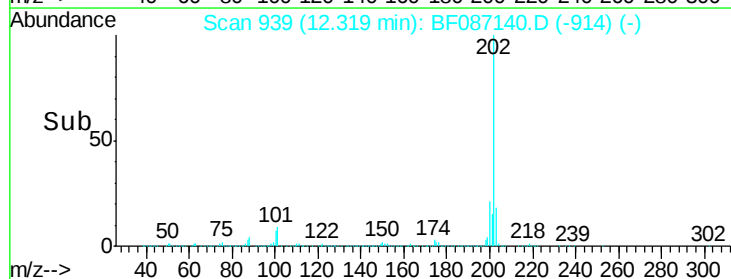
203 17.6 0.0 38.1

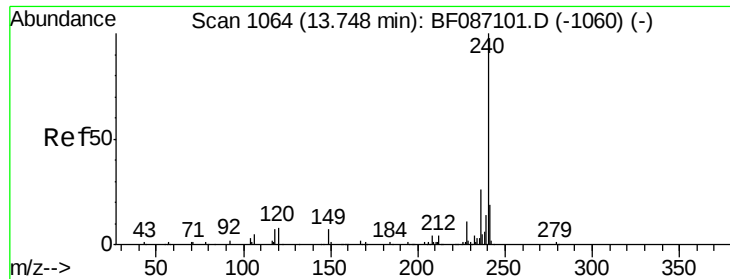


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.02 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Instrument :

BNA_F

ClientSampleId :

DUPBRE

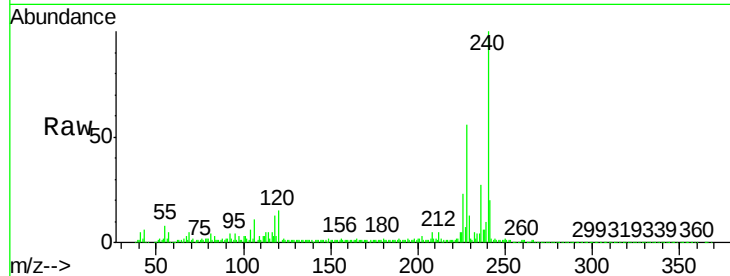
Tgt Ion:240 Resp: 218342

Ion Ratio Lower Upper

240 100

120 14.7 11.2 16.8

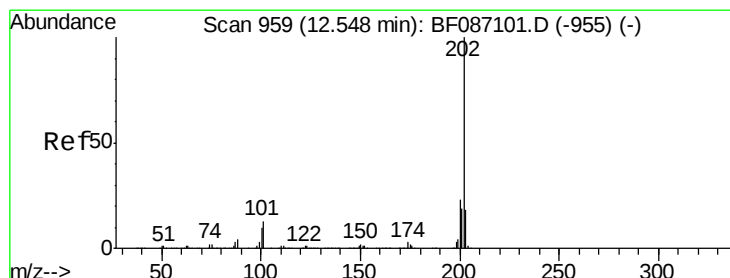
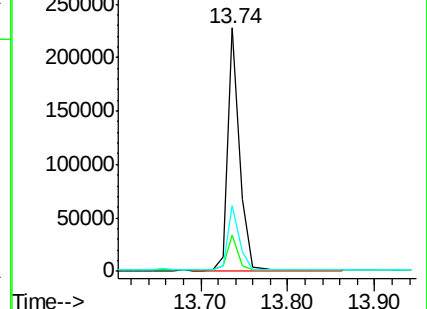
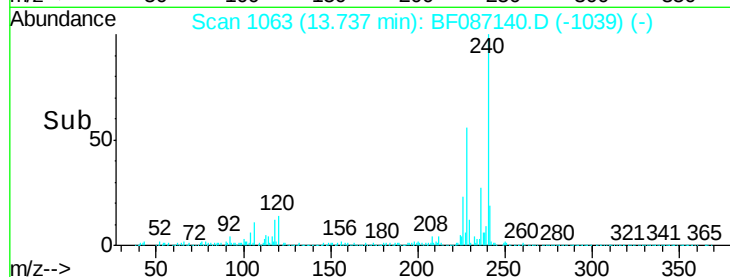
236 27.2 21.2 31.8



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: 26.16 ng

RT: 12.54 min Scan# 958

Delta R.T. -0.02 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

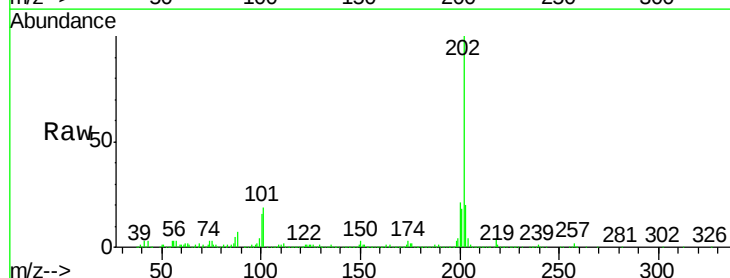
Tgt Ion:202 Resp: 412697

Ion Ratio Lower Upper

202 100

200 21.4 17.7 26.5

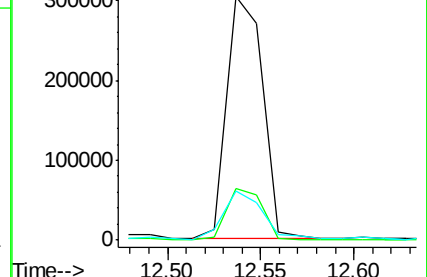
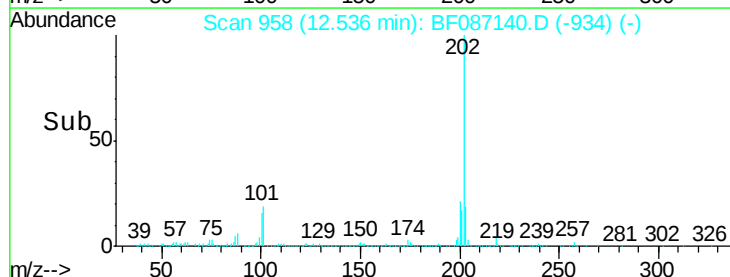
203 20.0 14.2 21.4

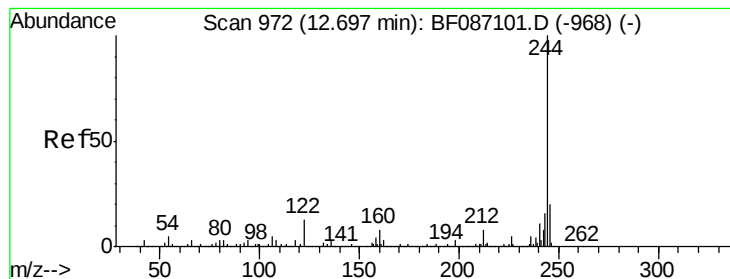


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 47.82 ng

RT: 12.70 min Scan# 972

Delta R.T. -0.01 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Instrument :

BNA_F

ClientSampleId :

DUPBRE

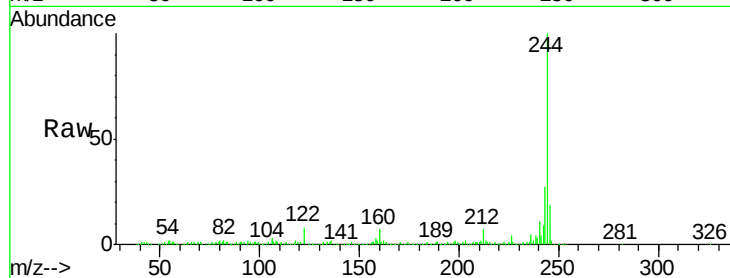
Tgt Ion:244 Resp: 461546

Ion Ratio Lower Upper

244 100

212 7.0 6.2 9.2

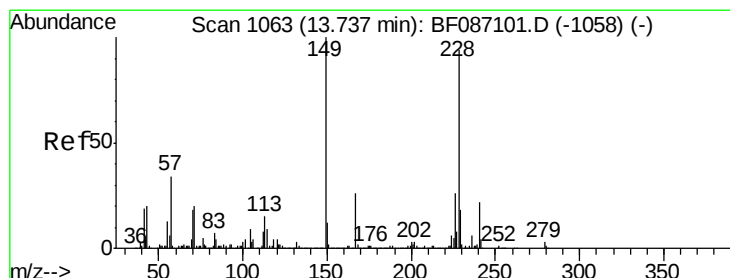
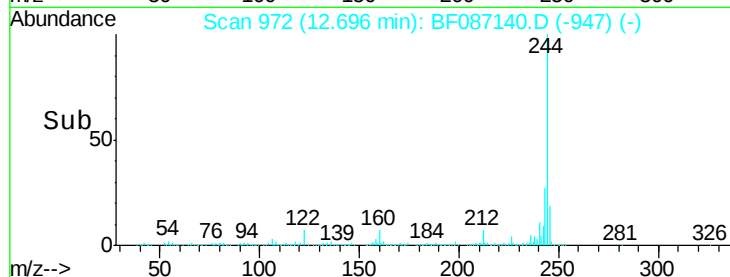
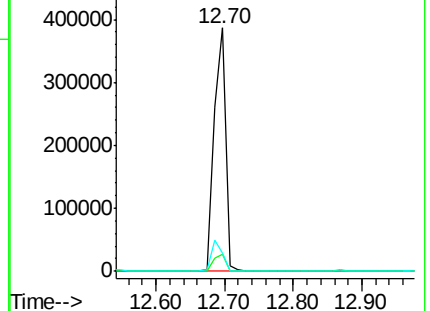
122 7.6 12.0 18.0#



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: 22.28 ng

RT: 13.73 min Scan# 1062

Delta R.T. -0.02 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

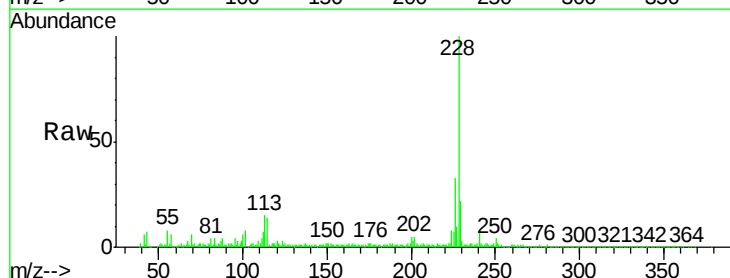
Tgt Ion:228 Resp: 281235

Ion Ratio Lower Upper

228 100

226 33.2 22.5 33.7

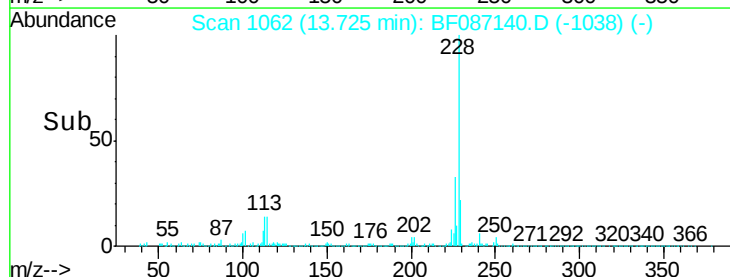
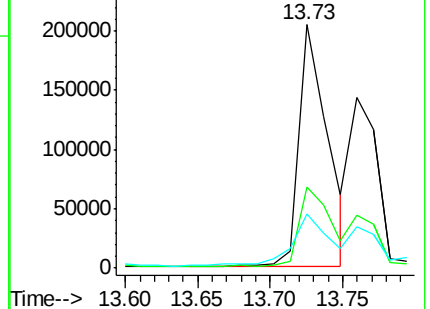
229 22.4 16.6 25.0

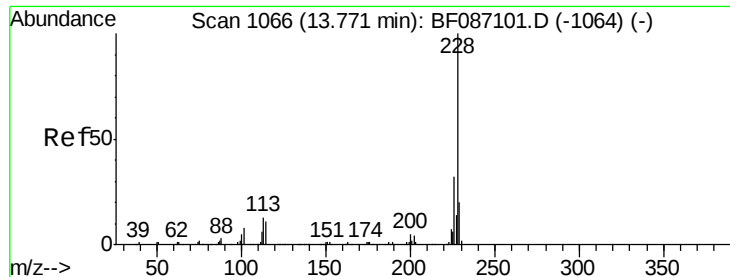


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 23.02 ng

RT: 13.73 min Scan# 1062

Delta R.T. -0.06 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Instrument :

BNA_F

ClientSampleId :

DUPBRE

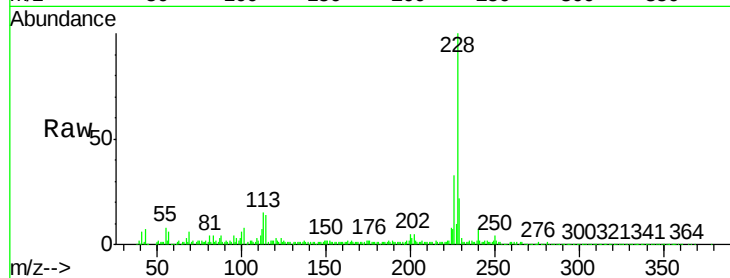
Tgt Ion:228 Resp: 281235

Ion Ratio Lower Upper

228 100

226 33.2 24.4 36.6

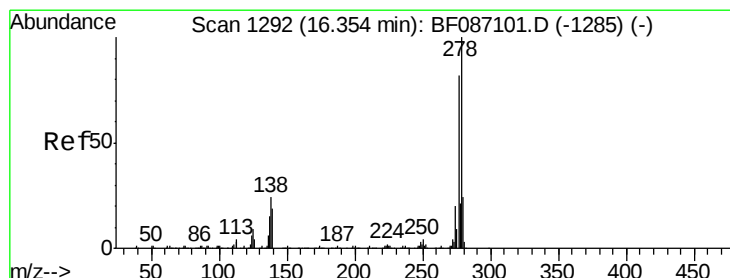
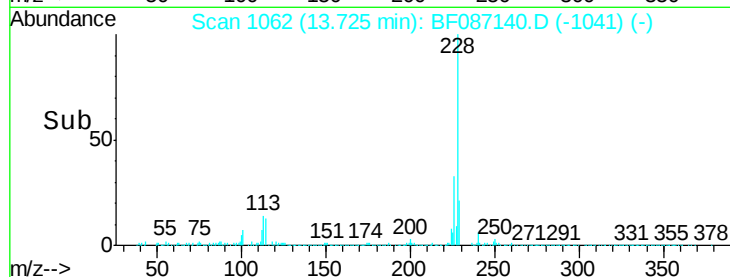
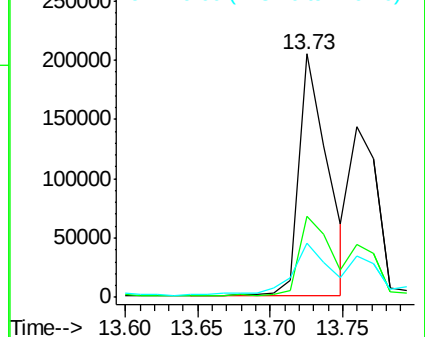
229 22.4 15.8 23.8



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: 6.57 ng

RT: 16.35 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

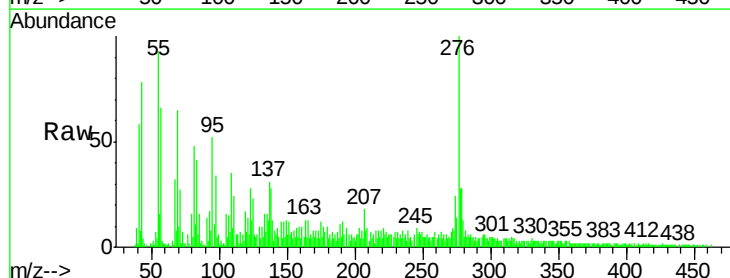
Tgt Ion:276 Resp: 70434

Ion Ratio Lower Upper

276 100

138 26.5 25.6 38.4

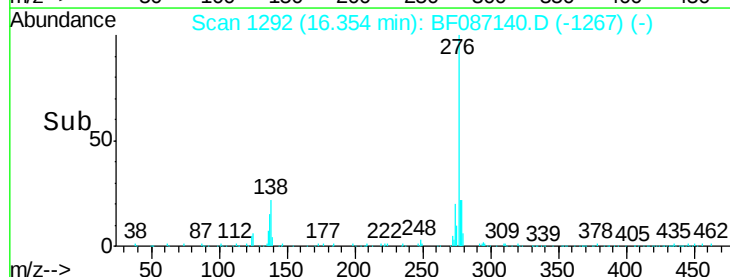
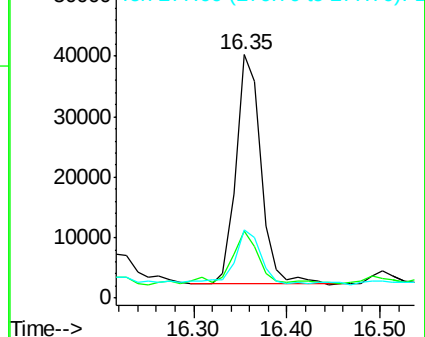
277 24.1 20.5 30.7

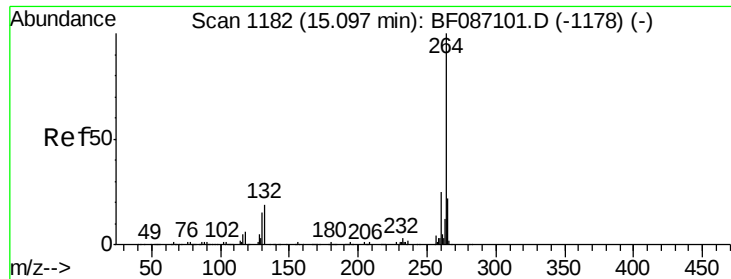


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

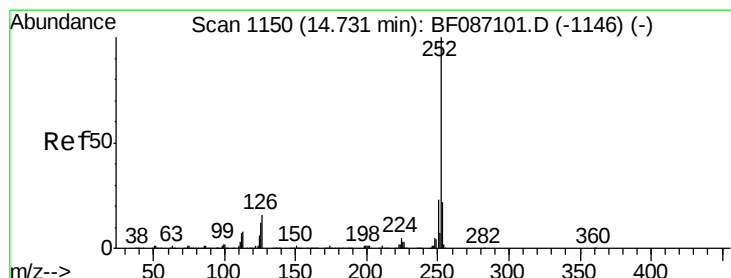
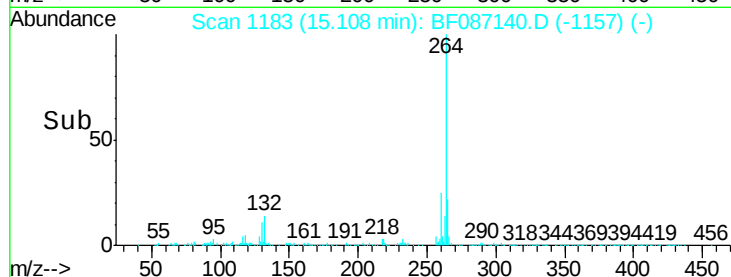
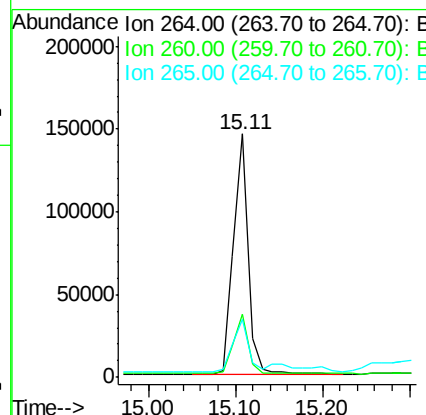
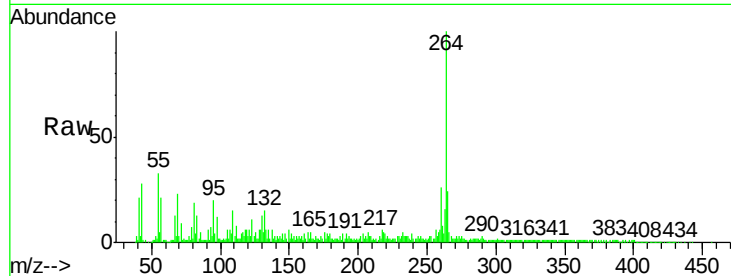




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.11 min Scan# 1183
Delta R.T. -0.00 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

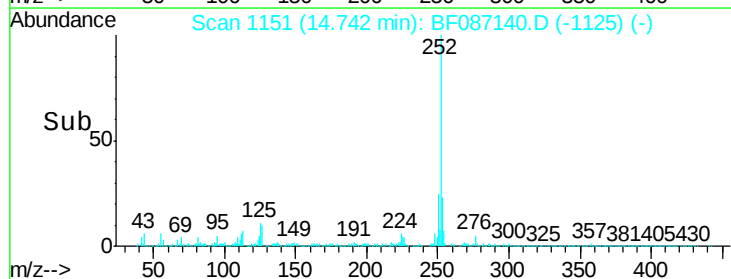
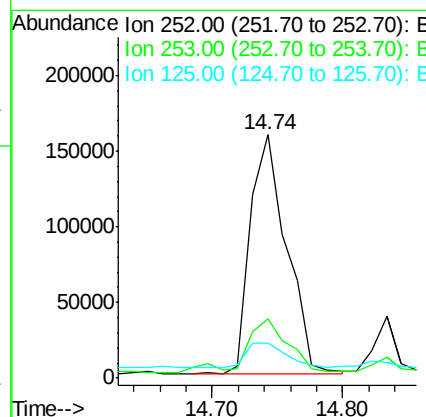
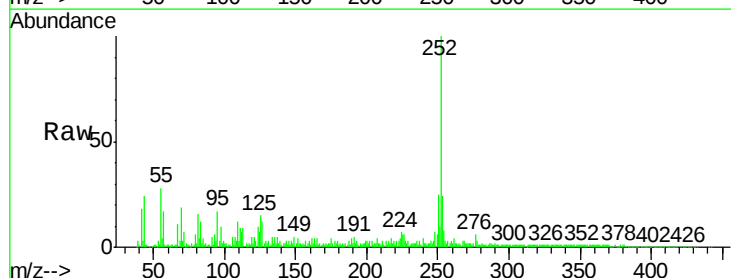
Instrument :
BNA_F
ClientSampleId :
DUPBRE

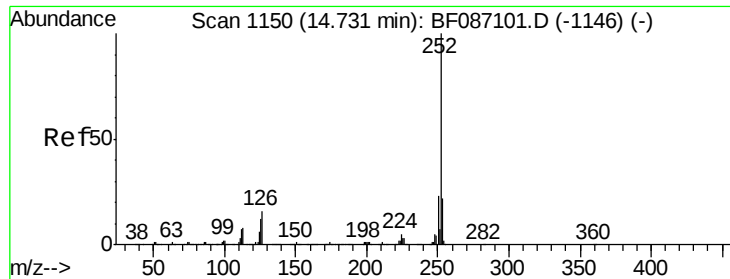
Tgt Ion: 264 Resp: 171796
Ion Ratio Lower Upper
264 100
260 26.1 19.5 29.3
265 23.9 17.3 25.9



#87
Benzo(b)fluoranthene
Concen: 26.75 ng
RT: 14.74 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

Tgt Ion: 252 Resp: 304859
Ion Ratio Lower Upper
252 100
253 24.5 17.8 26.6
125 14.5 11.4 17.0

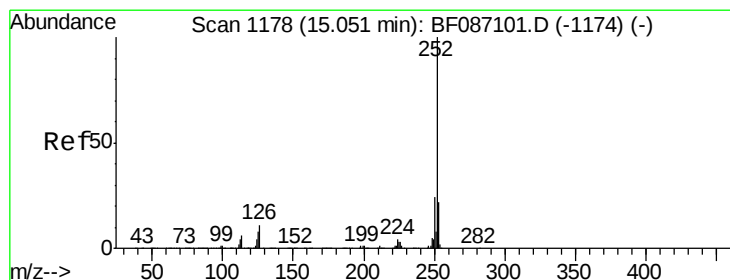
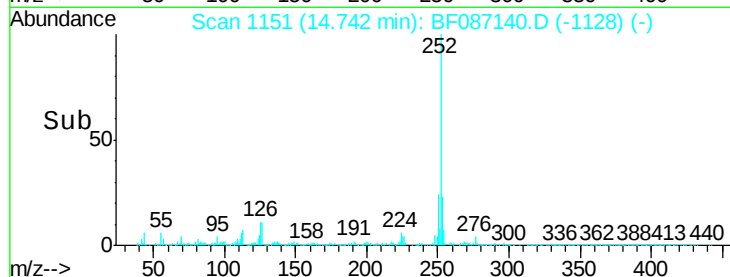
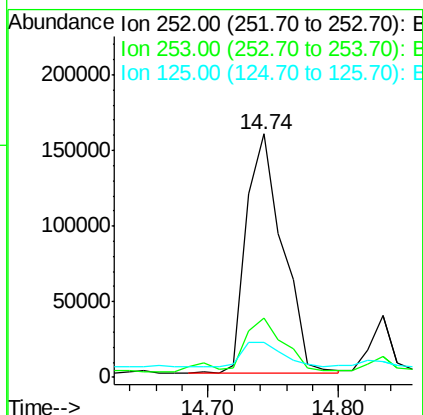
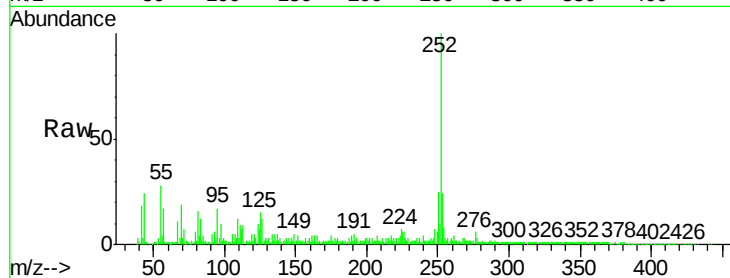




#88
Benzo(k)fluoranthene
Concen: 35.93 ng
RT: 14.74 min Scan# 1151
Delta R.T. -0.03 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

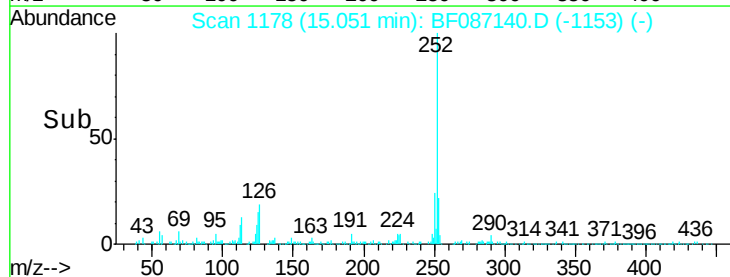
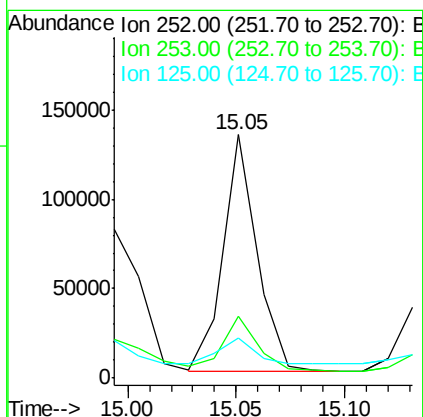
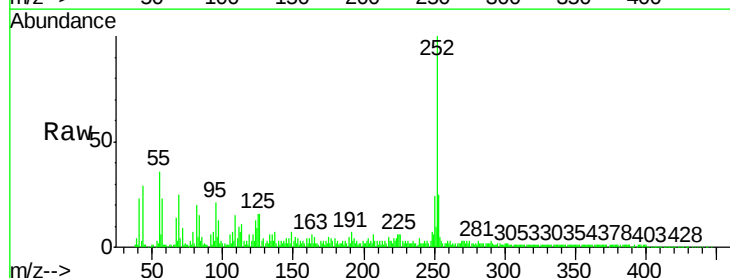
Instrument :
BNA_F
ClientSampleId :
DUPBRE

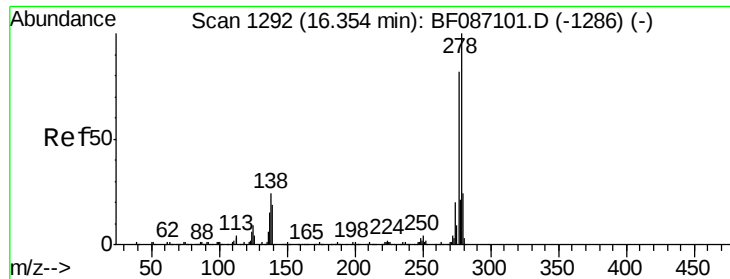
Tgt Ion: 252 Resp: 304859
Ion Ratio Lower Upper
252 100
253 24.5 17.8 26.6
125 14.5 9.1 13.7#



#89
Benzo(a)pyrene
Concen: 14.94 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.01 min
Lab File: BF087140.D
Acq: 18 May 2016 9:30

Tgt Ion: 252 Resp: 142325
Ion Ratio Lower Upper
252 100
253 25.4 17.2 25.8
125 16.3 9.0 13.6#





#90

Dibenzo(a,h)anthracene

Concen: 2.72 ng

RT: 16.35 min Scan# 1292

Delta R.T. -0.02 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

Instrument :

BNA_F

ClientSampleId :

DUPBRE

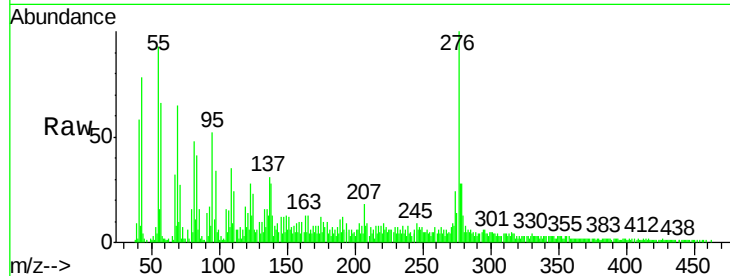
Tgt Ion: 278 Resp: 21779

Ion Ratio Lower Upper

278 100

139 47.0 16.6 24.8#

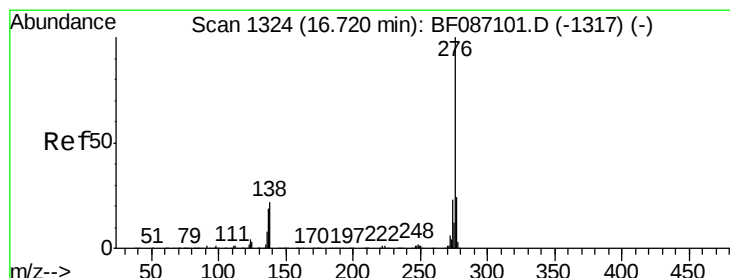
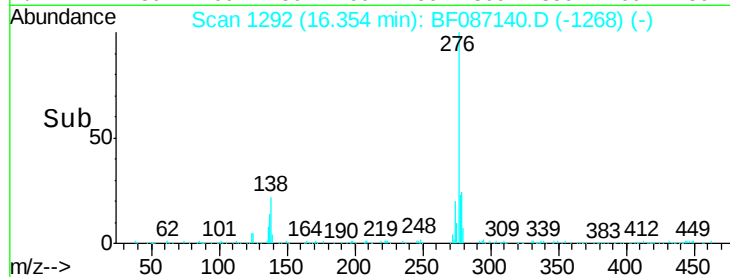
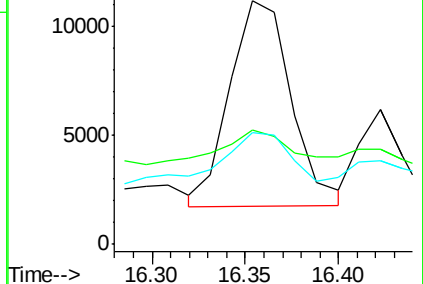
279 45.8 19.6 29.4#



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: 7.55 ng

RT: 16.73 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF087140.D

Acq: 18 May 2016 9:30

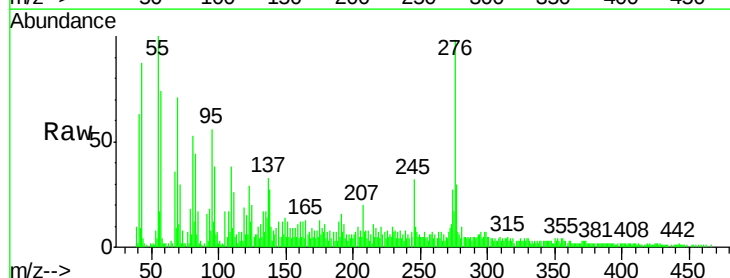
Tgt Ion: 276 Resp: 61154

Ion Ratio Lower Upper

276 100

277 30.0 19.6 29.4#

138 27.3 23.6 35.4



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

