

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF082416\
 Data File : BF089907.D
 Acq On : 25 Aug 2016 7:18
 Operator : UM/SJ
 Sample : H4566-06 5X
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC2-W-5-02

Quant Time: Aug 25 12:29:41 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF081916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 19 14:02:57 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	452746	20.00	ng	-0.02
21) Naphthalene-d8	7.95	136	1810540	20.00	ng	-0.02
38) Acenaphthene-d10	9.70	164	800894	20.00	ng	-0.01
63) Phenanthrene-d10	11.19	188	1524741	20.00	ng	0.00
75) Chrysene-d12	13.86	240	983731	20.00	ng	-0.01
86) Perylene-d12	15.37	264	1060633	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	633895	24.01	ng	-0.02
7) Phenol-d6	6.30	99	756373	23.34	ng	-0.02
23) Nitrobenzene-d5	7.23	82	413051	14.17	ng	-0.02
41) 2,4,6-Tribromophenol	10.49	330	179290	23.56	ng	-0.01
44) 2-Fluorobiphenyl	9.04	172	861885	18.91	ng	-0.01
78) Terphenyl-d14	12.78	244	635236	14.61	ng	-0.01

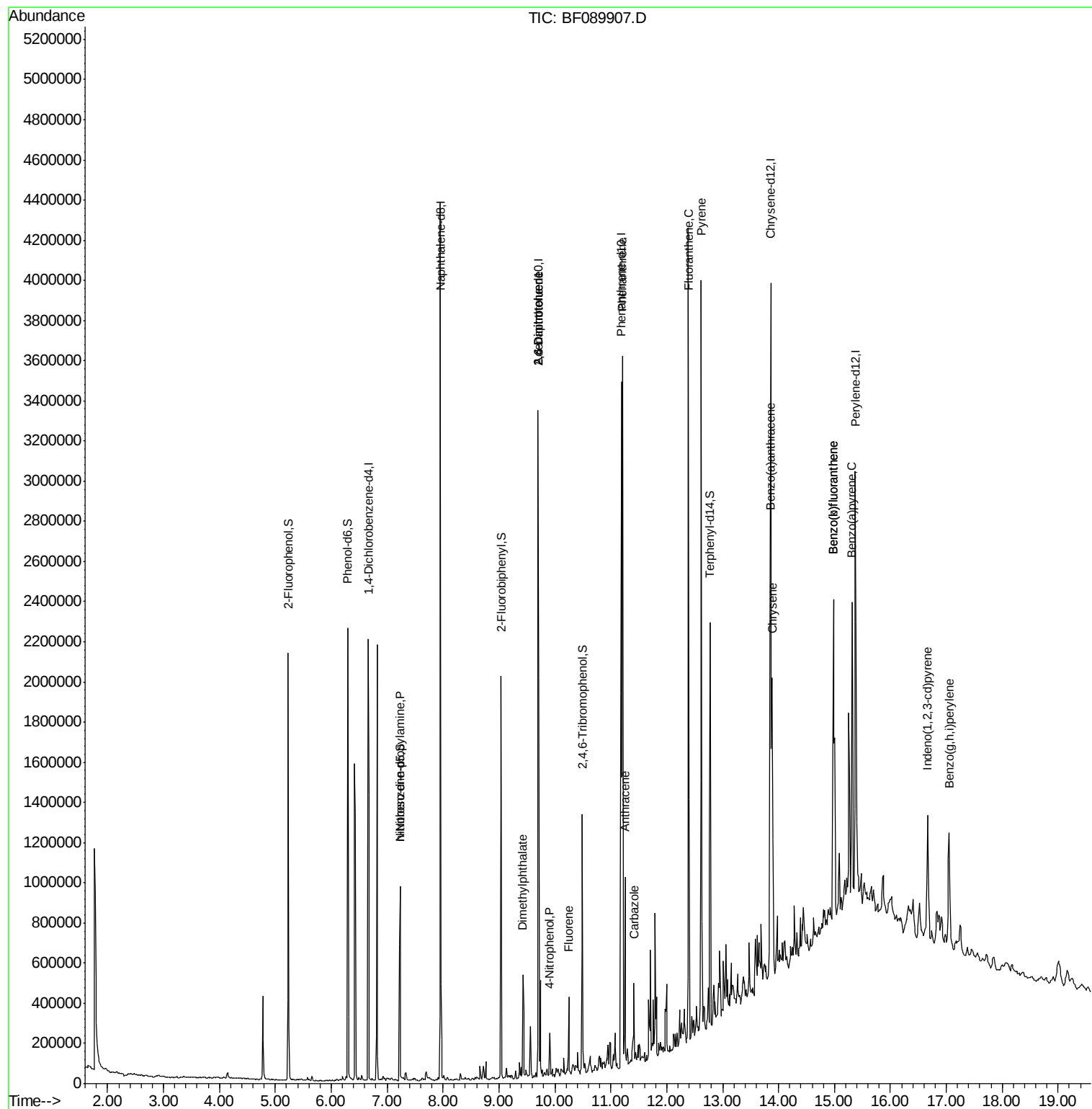
Target Compounds				Qvalue		
19) n-Nitroso-di-n-propylamine	7.23	70	53900	2.60	ng	# 67
49) Dimethylphthalate	9.43	163	275170	4.88	ng	99
50) 2,6-Dinitrotoluene	9.70	165	107629	8.27	ng	# 26
55) 4-Nitrophenol	9.91	139	26377	2.24	ng	# 18
56) 2,4-Dinitrotoluene	9.70	165	107629	6.37	ng	# 35
57) Fluorene	10.25	166	102451	2.10	ng	99
70) Phenanthrene	11.21	178	1463279	19.00	ng	99
71) Anthracene	11.26	178	356117	4.55	ng	97
72) Carbazole	11.42	167	181016	2.58	ng	# 95
74) Fluoranthene	12.39	202	1666405	22.75	ng	95
77) Pyrene	12.62	202	1459537	18.22	ng	98
80) Benzo(a)anthracene	13.85	228	751910	13.35	ng	97
82) Chrysene	13.89	228	543560	11.25	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	424729	6.89	ng	94
87) Benzo(b)fluoranthene	14.98	252	1218823	20.89	ng	98
88) Benzo(k)fluoranthene	14.98	252	1218823	23.02	ng	99
89) Benzo(a)pyrene	15.31	252	645486	11.69	ng	97
91) Benzo(g,h,i)perylene	17.05	276	432367	6.85	ng	97

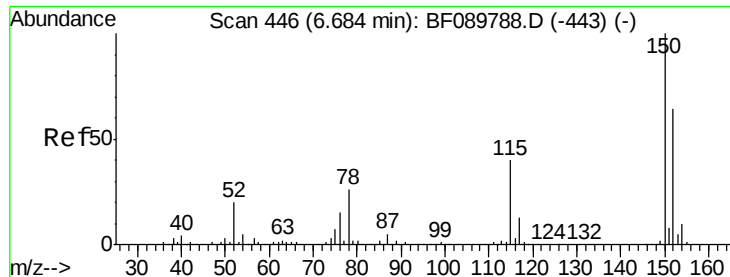
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.66 min Scan# 444

Delta R.T. -0.02 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

Instrument :

BNA_F

ClientSampleId :

WC2-W-5-02

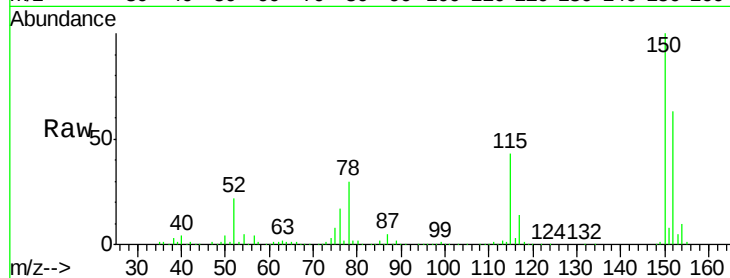
Tgt Ion:152 Resp: 452746

Ion Ratio Lower Upper

152 100

150 159.9 125.3 187.9

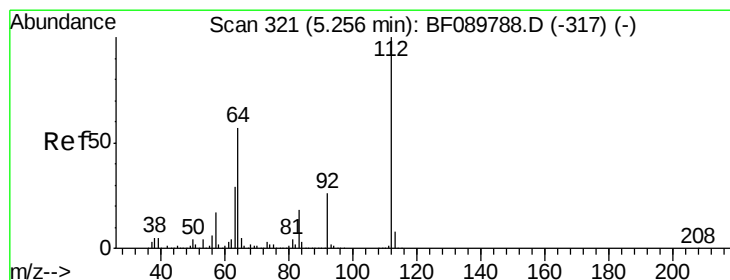
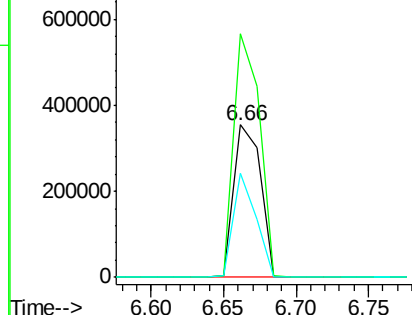
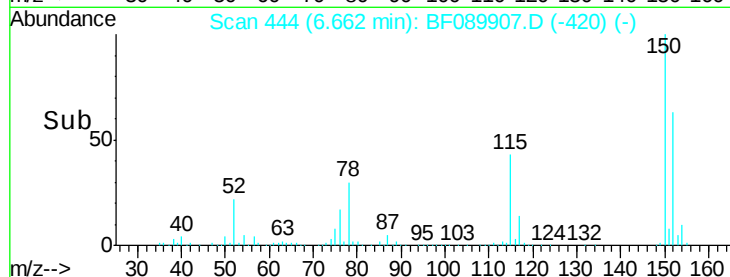
115 68.3 40.9 61.3#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 24.01 ng

RT: 5.23 min Scan# 319

Delta R.T. -0.02 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

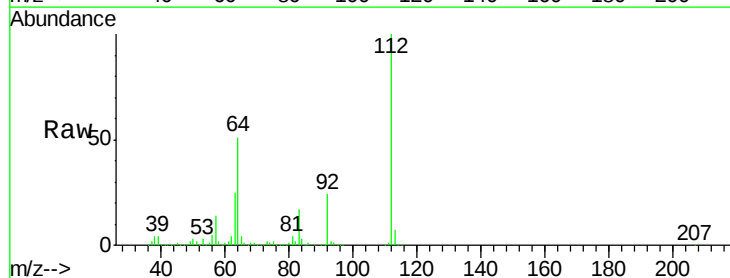
Tgt Ion:112 Resp: 633895

Ion Ratio Lower Upper

112 100

64 51.0 45.0 67.4

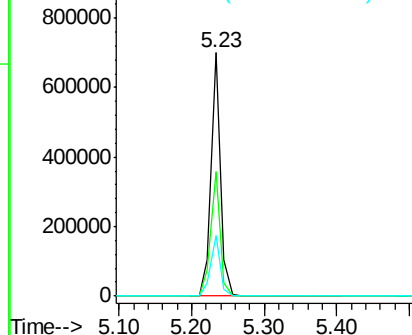
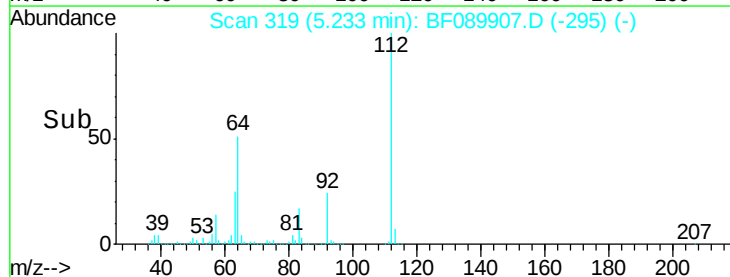
63 25.1 23.1 34.7

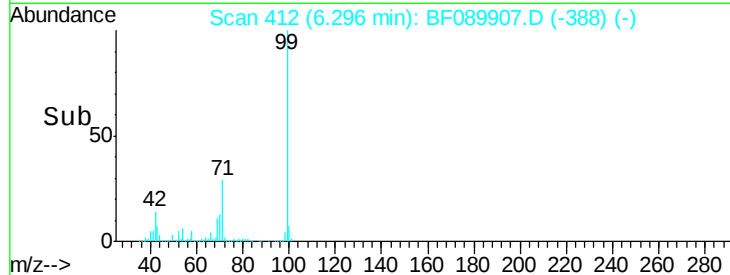
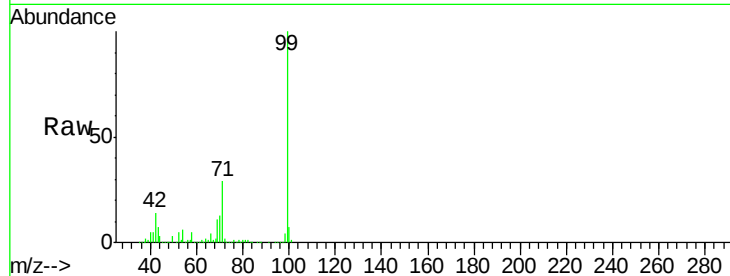


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 23.34 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.02 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

Instrument :

BNA_F

ClientSampleId :

WC2-W-5-02

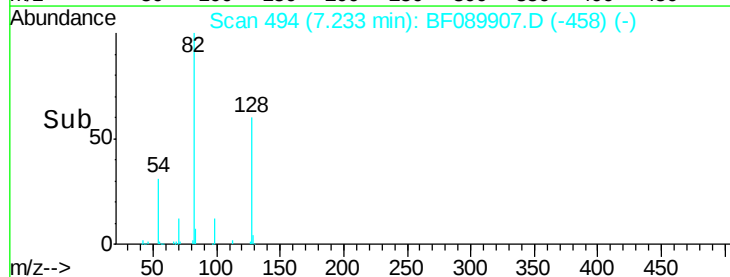
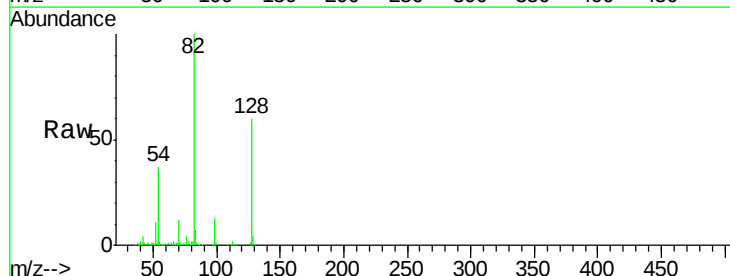
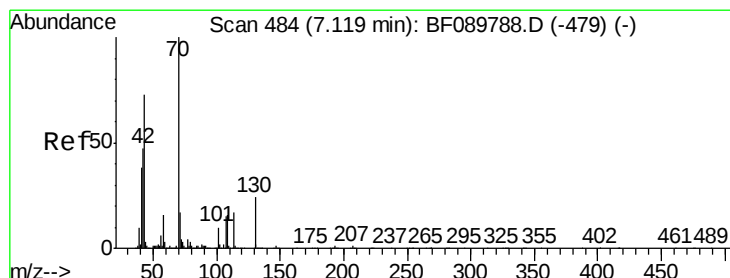
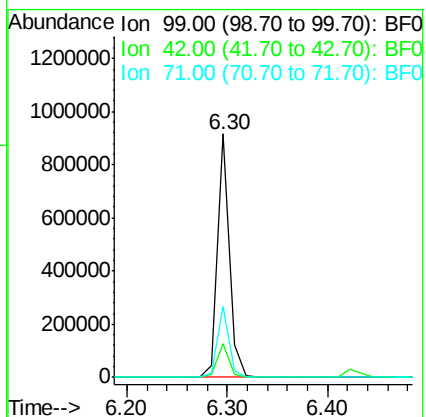
Tgt Ion: 99 Resp: 756373

Ion Ratio Lower Upper

99 100

42 14.0 12.2 18.4

71 29.3 23.8 35.8



#19

n-Nitroso-di-n-propylamine

Concen: 2.60 ng

RT: 7.23 min Scan# 494

Delta R.T. 0.11 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

Tgt Ion: 70 Resp: 53900

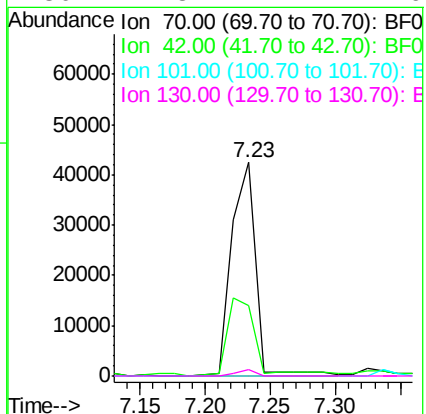
Ion Ratio Lower Upper

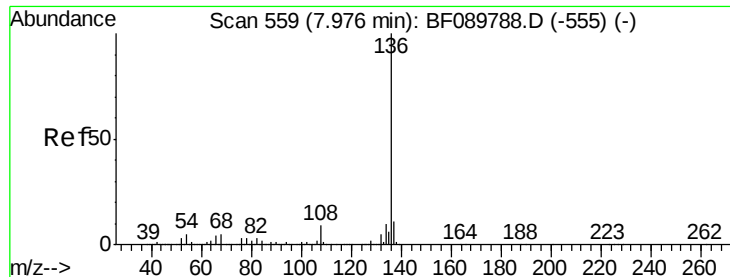
70 100

42 33.2 46.3 69.5#

101 0.0 7.0 10.6#

130 2.8 14.4 21.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.95 min Scan# 557

Delta R.T. -0.02 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

Instrument :

BNA_F

ClientSampleId :

WC2-W-5-02

Tgt Ion:136 Resp: 1810540

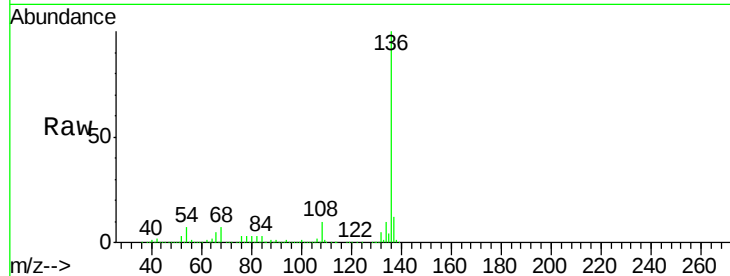
Ion Ratio Lower Upper

136 100

137 11.9 9.2 13.8

54 6.9 7.2 10.8#

68 6.5 5.8 8.8

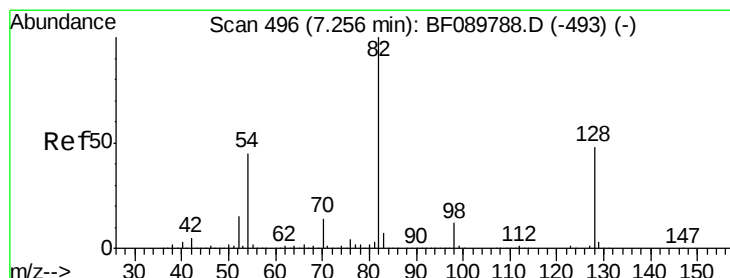
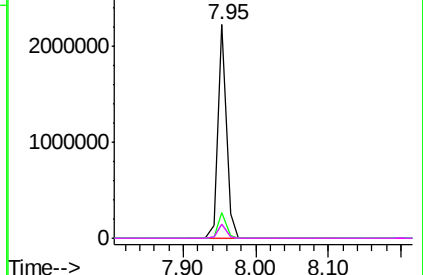
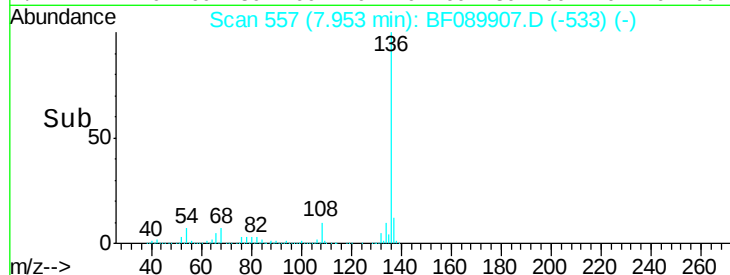


Abundance Ion 136.00 (135.70 to 136.70): E

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: 14.17 ng

RT: 7.23 min Scan# 494

Delta R.T. -0.02 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

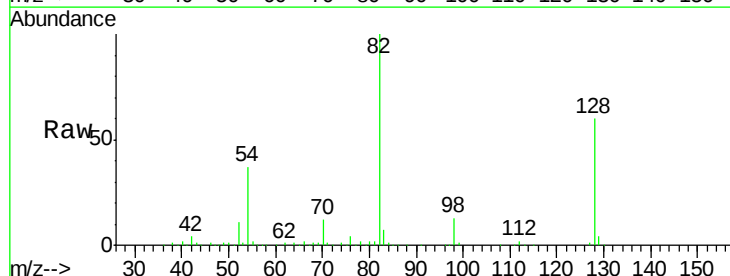
Tgt Ion: 82 Resp: 413051

Ion Ratio Lower Upper

82 100

128 59.8 34.4 51.6#

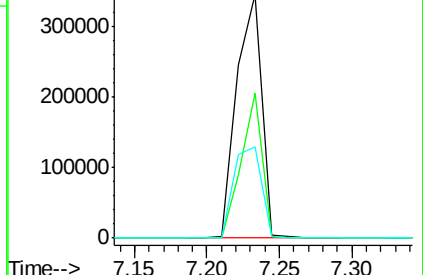
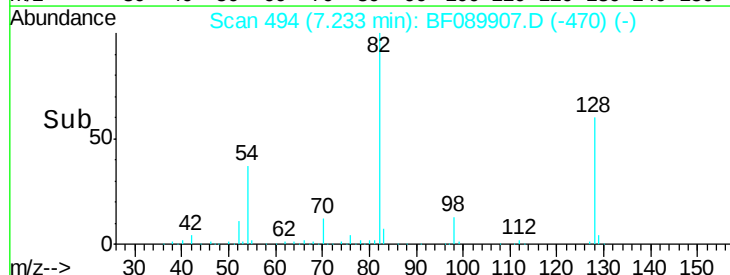
54 37.4 40.3 60.5#

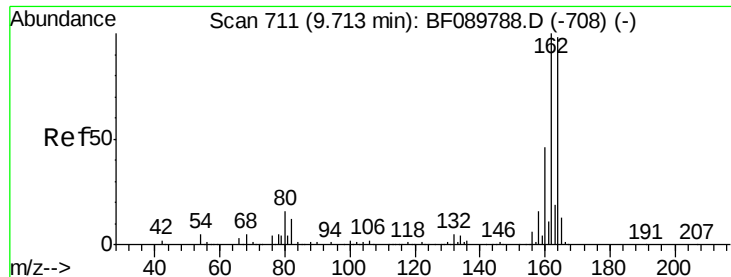


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

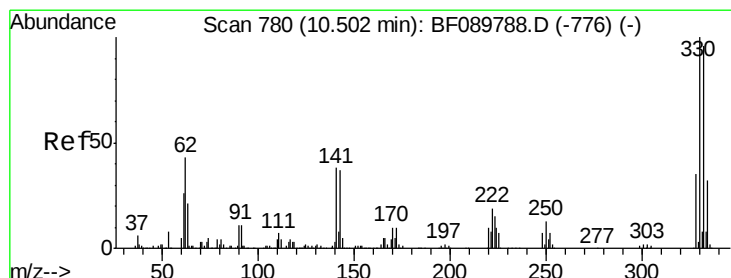
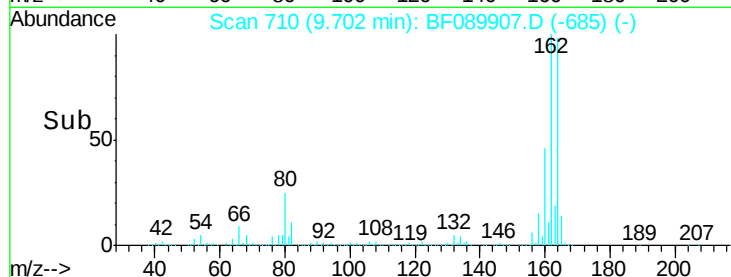
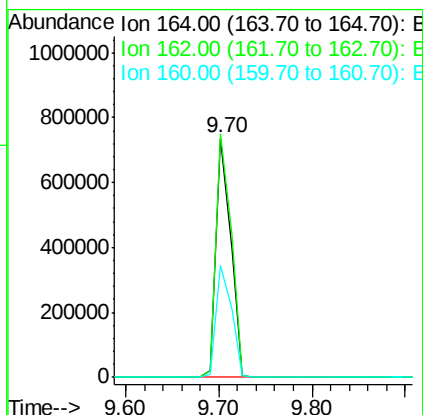
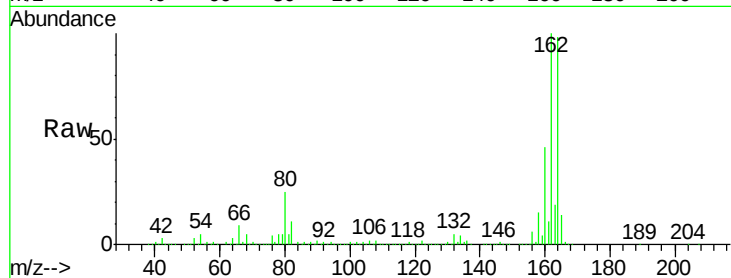




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.70 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: BF089907.D
 Acq: 25 Aug 2016 7:18

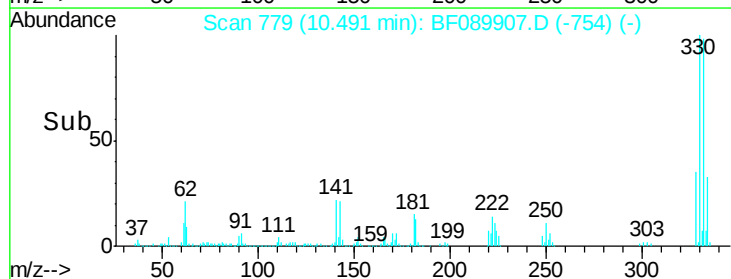
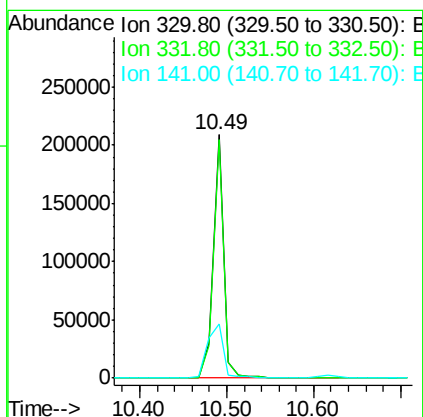
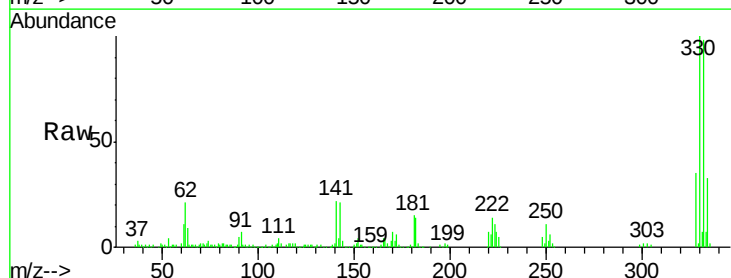
Instrument :
 BNA_F
 ClientSampleId :
 WC2-W-5-02

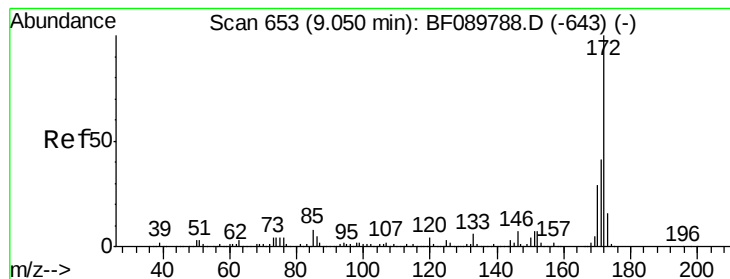
Tgt Ion:164 Resp: 800894
 Ion Ratio Lower Upper
 164 100
 162 102.0 81.4 122.2
 160 47.1 37.8 56.6



#41
 2,4,6-Tribromophenol
 Concen: 23.56 ng
 RT: 10.49 min Scan# 779
 Delta R.T. -0.01 min
 Lab File: BF089907.D
 Acq: 25 Aug 2016 7:18

Tgt Ion:330 Resp: 179290
 Ion Ratio Lower Upper
 330 100
 332 96.7 76.7 115.1
 141 32.6 30.2 45.2





#44

2-Fluorobiphenyl

Concen: 18.91 ng

RT: 9.04 min Scan# 652

Delta R.T. -0.01 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

Instrument :

BNA_F

ClientSampleId :

WC2-W-5-02

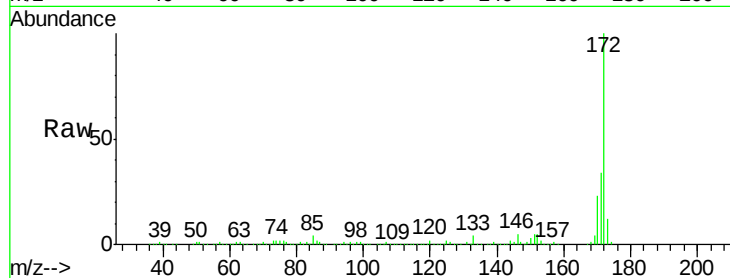
Tgt Ion:172 Resp: 861885

Ion Ratio Lower Upper

172 100

171 34.2 30.5 45.7

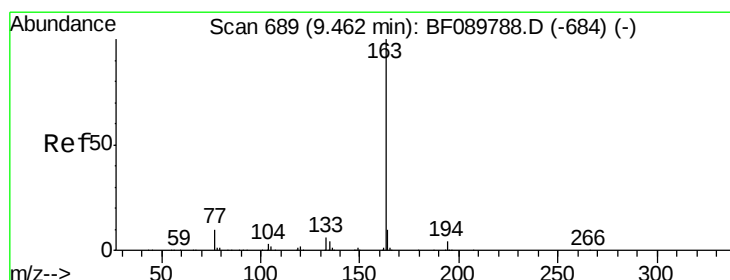
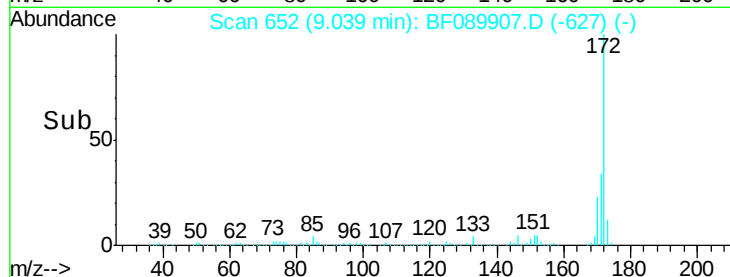
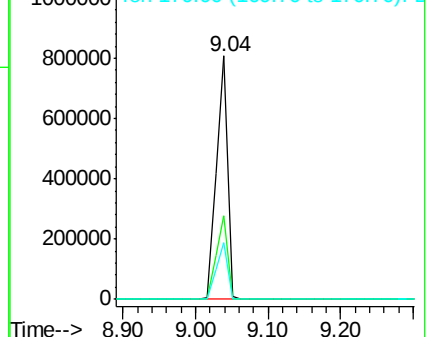
170 23.1 20.6 31.0



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#49

Dimethylphthalate

Concen: 4.88 ng

RT: 9.43 min Scan# 686

Delta R.T. -0.03 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

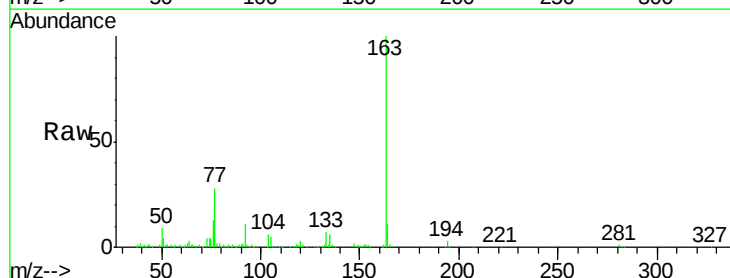
Tgt Ion:163 Resp: 275170

Ion Ratio Lower Upper

163 100

194 2.8 2.6 3.8

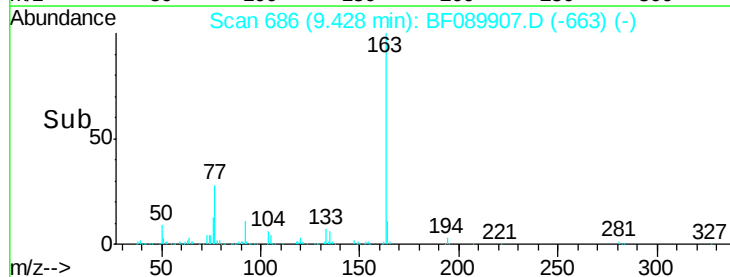
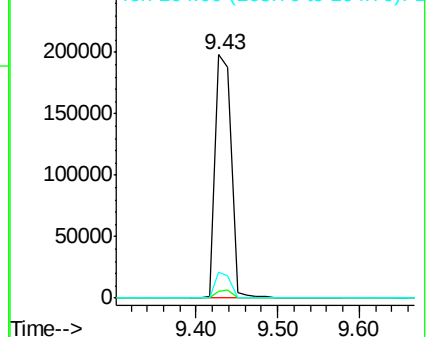
164 10.6 8.6 12.8

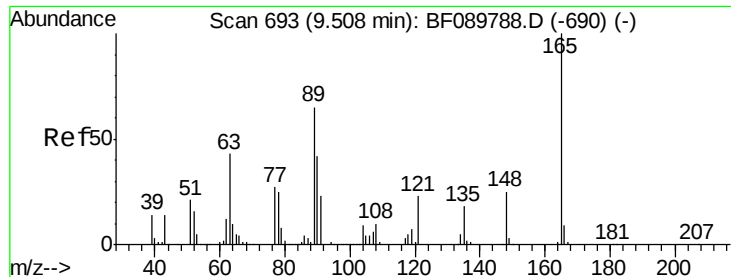


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

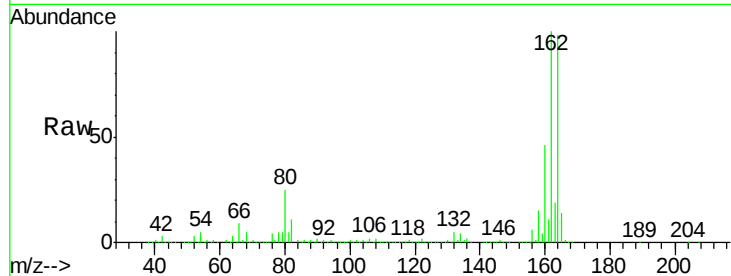




#50
 2,6-Dinitrotoluene
 Concen: 8.27 ng
 RT: 9.70 min Scan# 710
 Delta R.T. 0.19 min
 Lab File: BF089907.D
 Acq: 25 Aug 2016 7:18

Instrument :
 BNA_F
 ClientSampleId :
 WC2-W-5-02

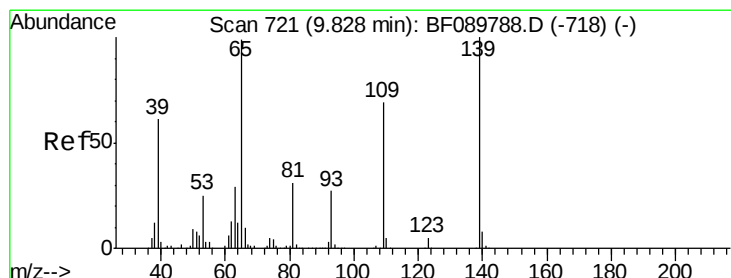
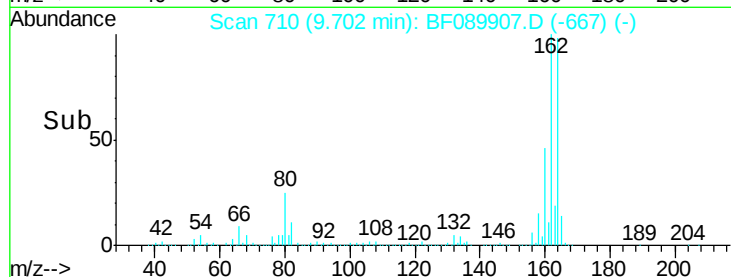
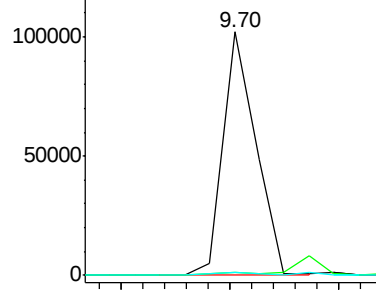
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	41.7	62.5#
89	1.4	44.6	67.0#



Abundance Ion 165.00 (164.70 to 165.70): E

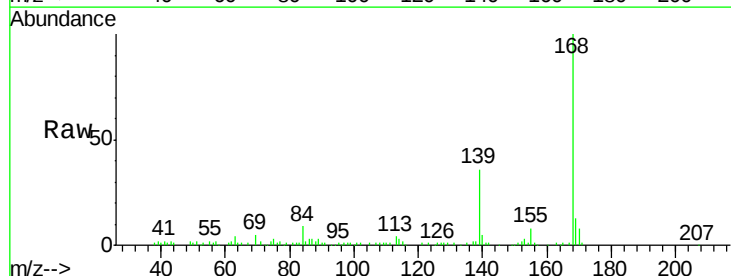
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#55
 4-Nitrophenol
 Concen: 2.24 ng
 RT: 9.91 min Scan# 728
 Delta R.T. 0.08 min
 Lab File: BF089907.D
 Acq: 25 Aug 2016 7:18

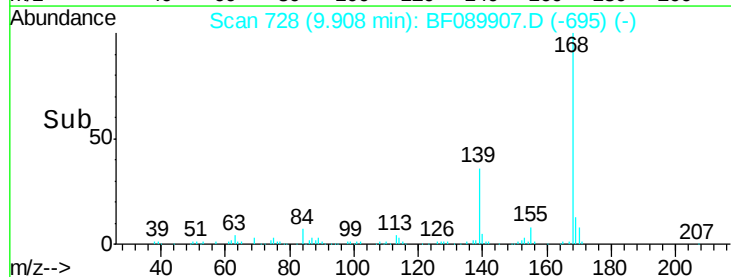
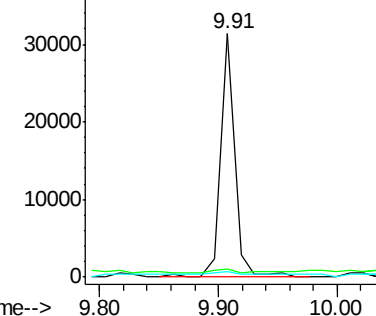
Tgt Ion	Ratio	Lower	Upper
139	100		
109	3.2	43.0	83.0#
65	2.5	55.7	95.7#

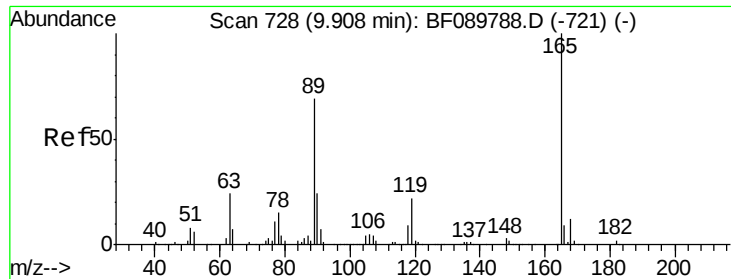


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

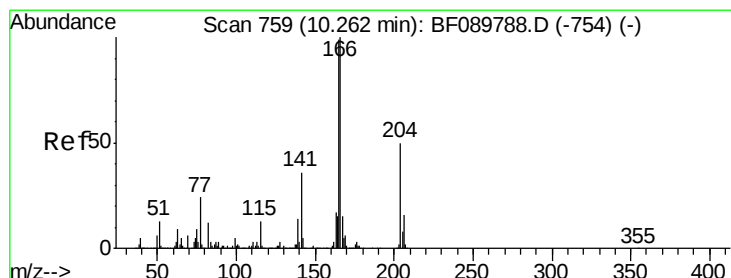
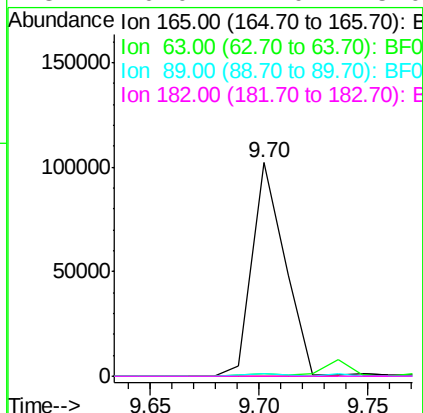
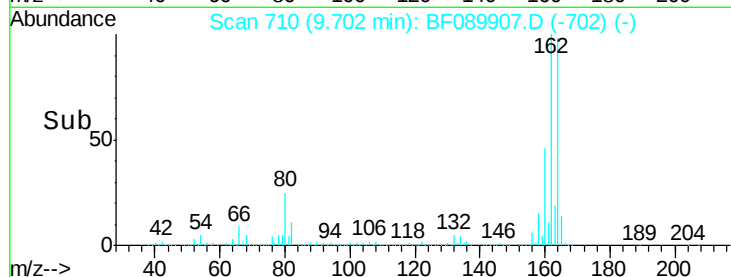
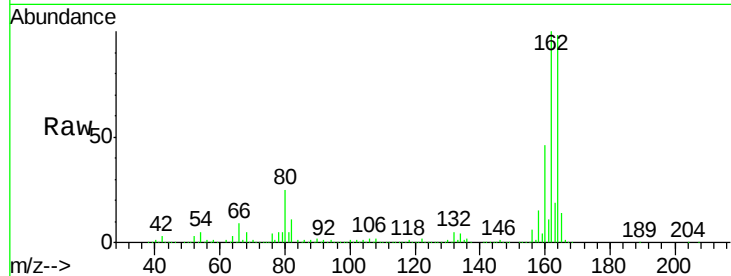




#56
2,4-Dinitrotoluene
Concen: 6.37 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.21 min
Lab File: BF089907.D
Acq: 25 Aug 2016 7:18

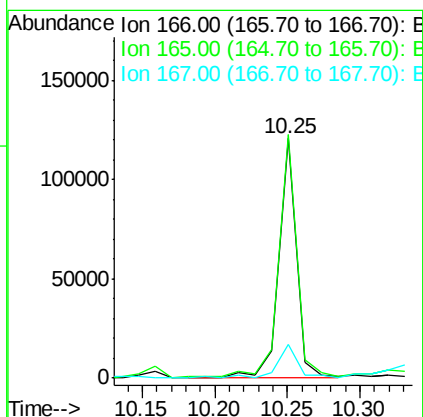
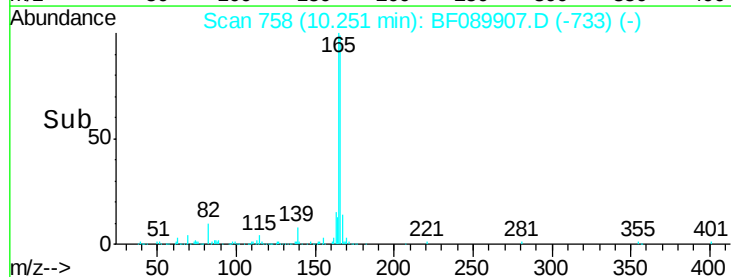
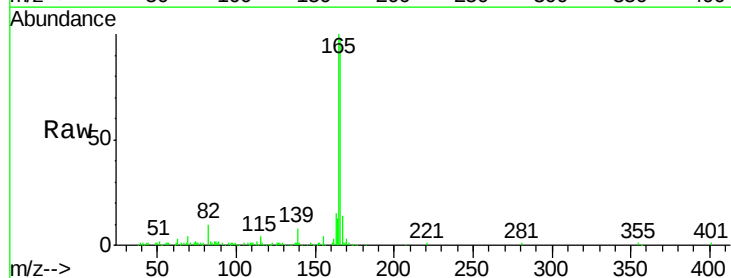
Instrument :
BNA_F
ClientSampleId :
WC2-W-5-02

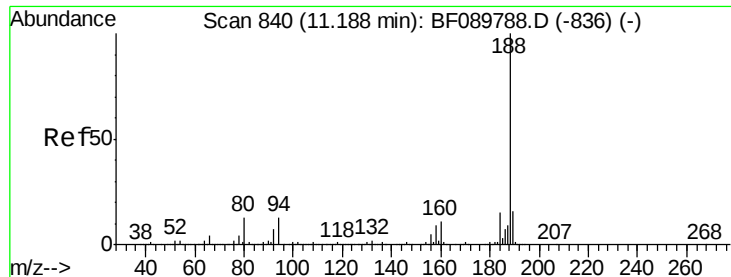
Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.1	23.7	35.5#
89	1.4	44.0	66.0#
182	0.0	2.0	3.0#



#57
Fluorene
Concen: 2.10 ng
RT: 10.25 min Scan# 758
Delta R.T. -0.01 min
Lab File: BF089907.D
Acq: 25 Aug 2016 7:18

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.7	80.2	120.4
167	14.3	11.3	16.9

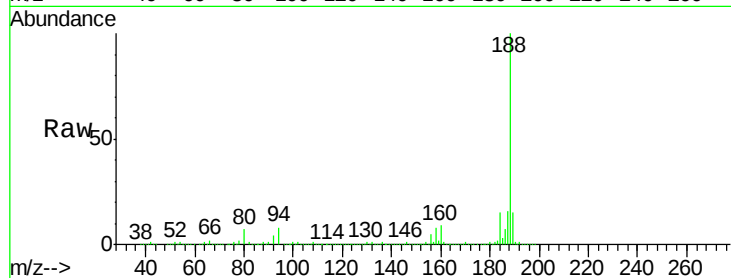




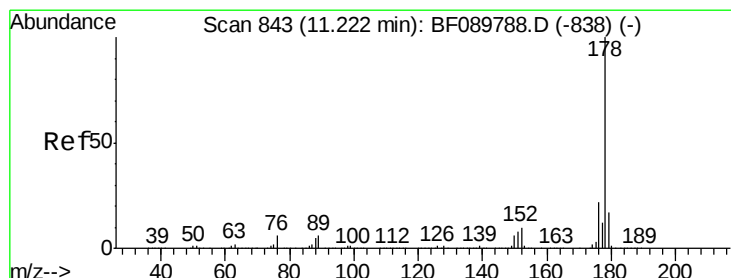
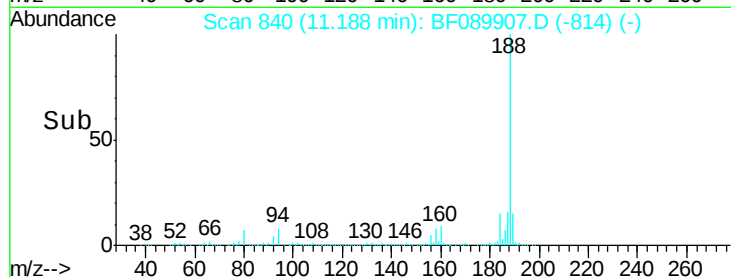
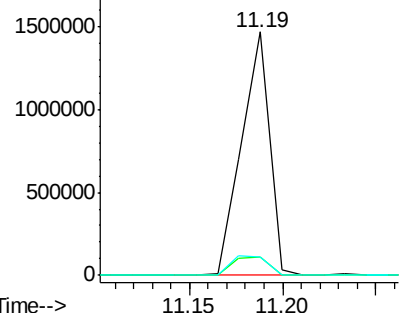
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.19 min Scan# 840
Delta R.T. 0.00 min
Lab File: BF089907.D
Acq: 25 Aug 2016 7:18

Instrument :
BNA_F
ClientSampleId :
WC2-W-5-02

Tgt Ion:188 Resp: 1524741
Ion Ratio Lower Upper
188 100
94 7.7 10.2 15.2#
80 7.5 10.9 16.3#

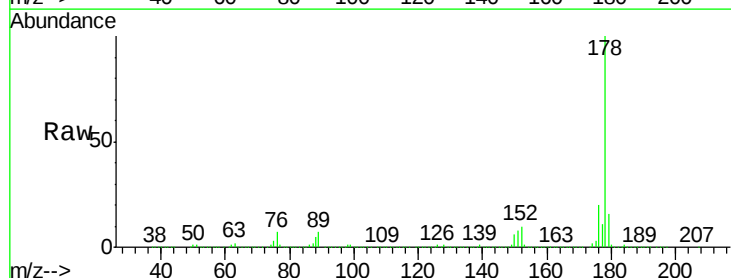


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

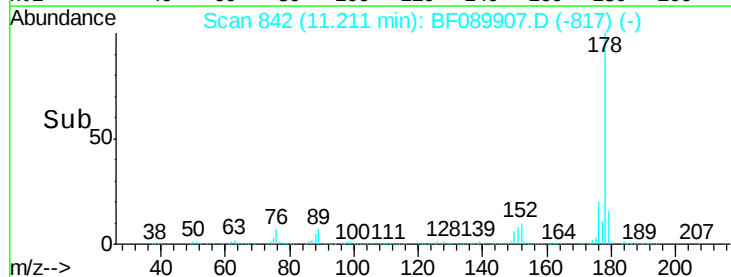
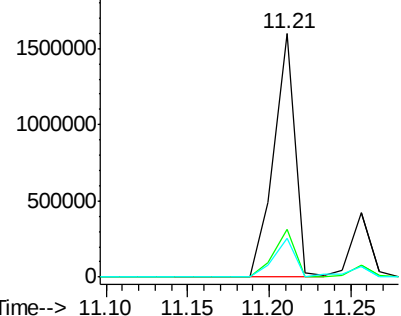


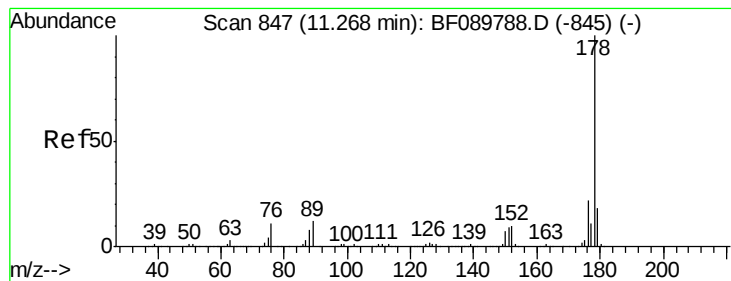
#70
Phenanthrene
Concen: 19.00 ng
RT: 11.21 min Scan# 842
Delta R.T. -0.01 min
Lab File: BF089907.D
Acq: 25 Aug 2016 7:18

Tgt Ion:178 Resp: 1463279
Ion Ratio Lower Upper
178 100
176 19.8 16.4 24.6
179 15.9 12.5 18.7



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: 4.55 ng

RT: 11.26 min Scan# 846

Delta R.T. -0.01 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

Instrument :

BNA_F

ClientSampleId :

WC2-W-5-02

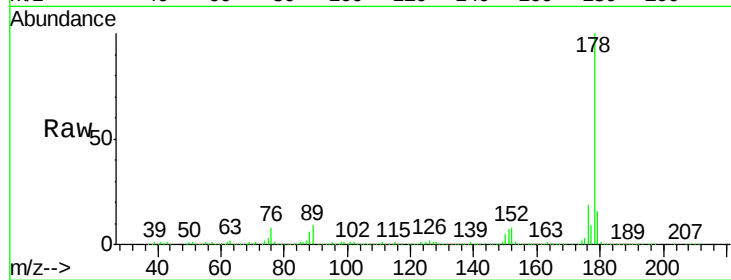
Tgt Ion:178 Resp: 356117

Ion Ratio Lower Upper

178 100

176 18.8 16.4 24.6

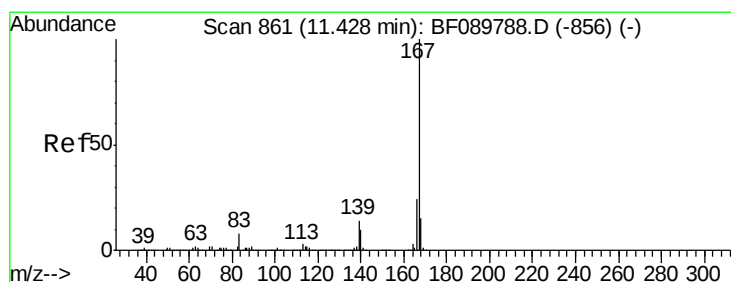
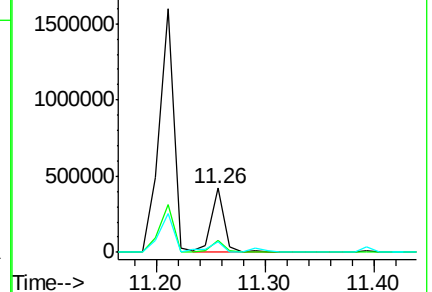
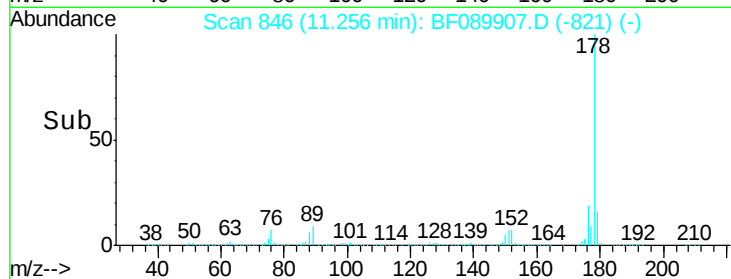
179 15.8 13.1 19.7



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: 2.58 ng

RT: 11.42 min Scan# 860

Delta R.T. -0.01 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

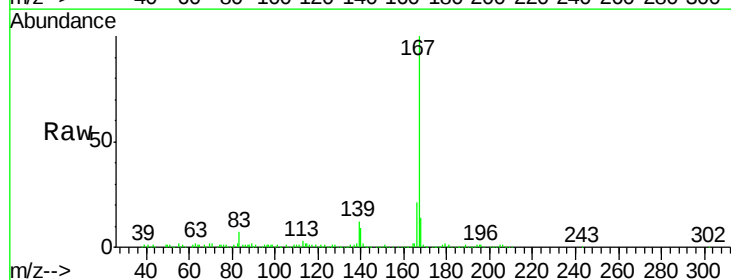
Tgt Ion:167 Resp: 181016

Ion Ratio Lower Upper

167 100

166 21.2 17.9 26.9

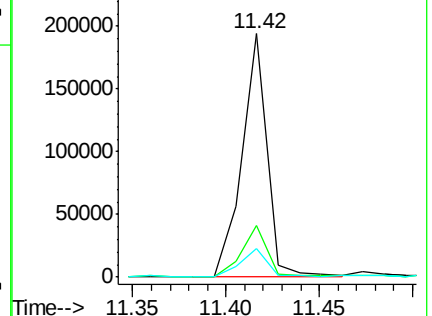
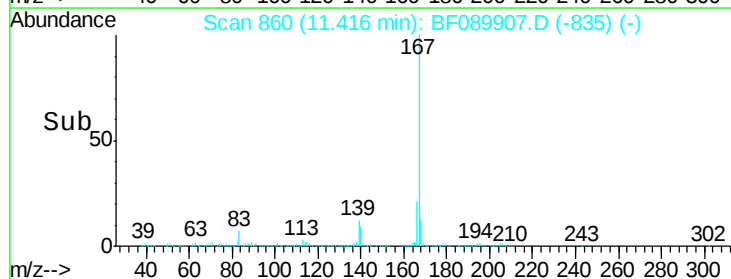
139 11.8 12.4 18.6#

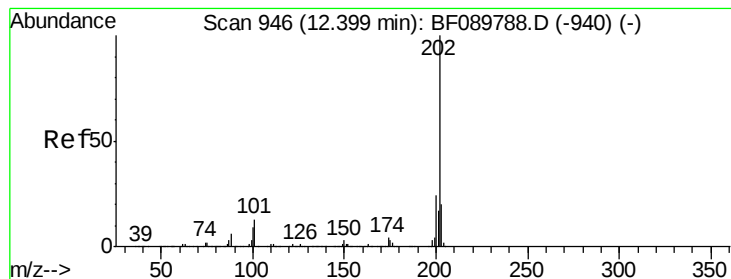


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 22.75 ng

RT: 12.39 min Scan# 945

Delta R.T. -0.01 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

Instrument :

BNA_F

ClientSampleId :

WC2-W-5-02

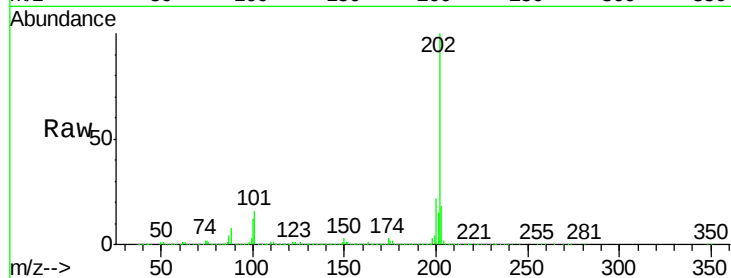
Tgt Ion:202 Resp: 1666405

Ion Ratio Lower Upper

202 100

101 16.2 0.0 31.2

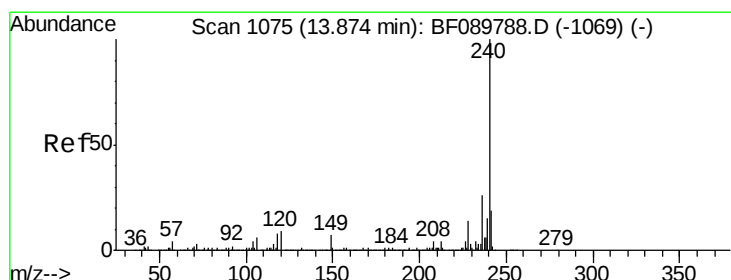
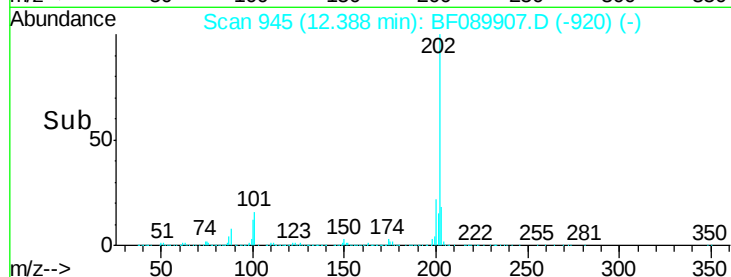
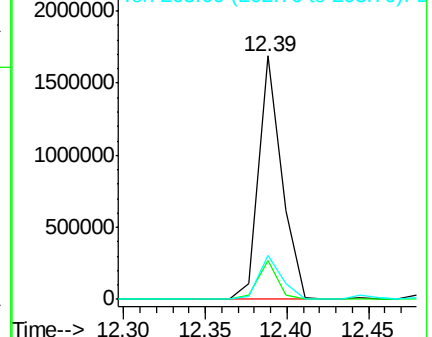
203 18.3 0.0 38.1



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: 13.86 min Scan# 1074

Delta R.T. -0.01 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

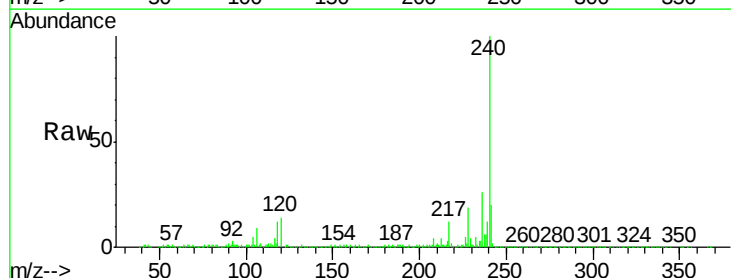
Tgt Ion:240 Resp: 983731

Ion Ratio Lower Upper

240 100

120 14.4 8.3 12.5#

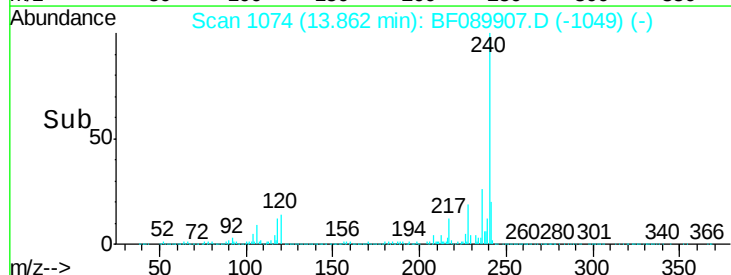
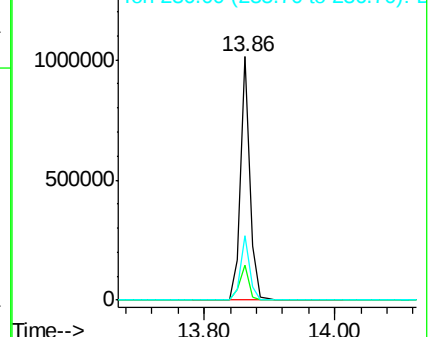
236 26.2 21.3 31.9

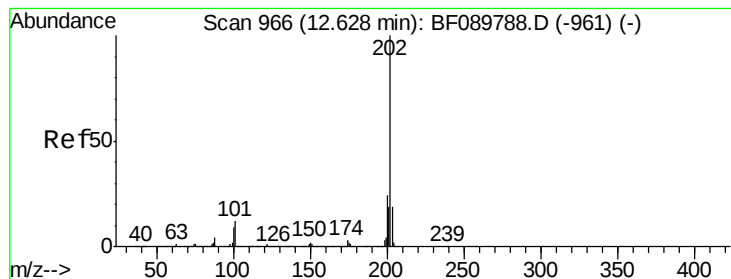


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 18.22 ng

RT: 12.62 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

Instrument :

BNA_F

ClientSampleId :

WC2-W-5-02

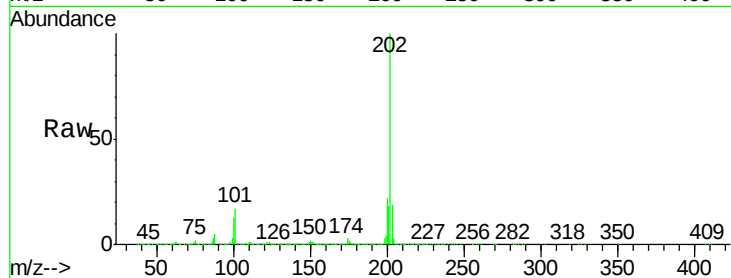
Tgt Ion:202 Resp: 1459537

Ion Ratio Lower Upper

202 100

200 22.0 17.8 26.6

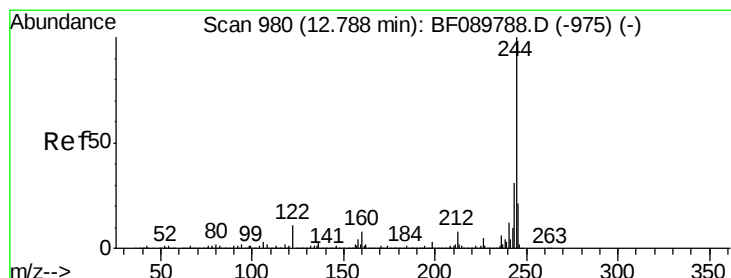
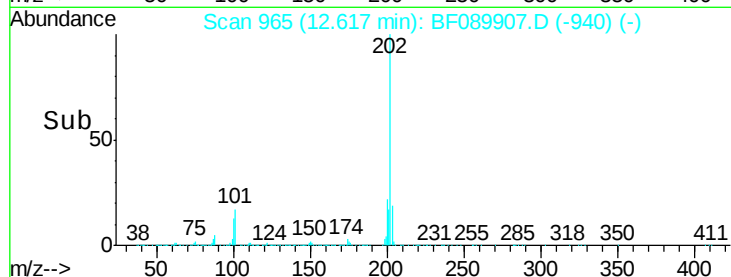
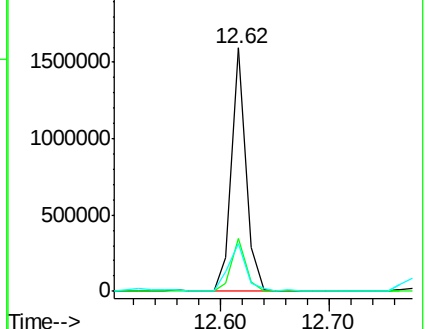
203 19.4 14.2 21.4



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: 14.61 ng

RT: 12.78 min Scan# 979

Delta R.T. -0.01 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

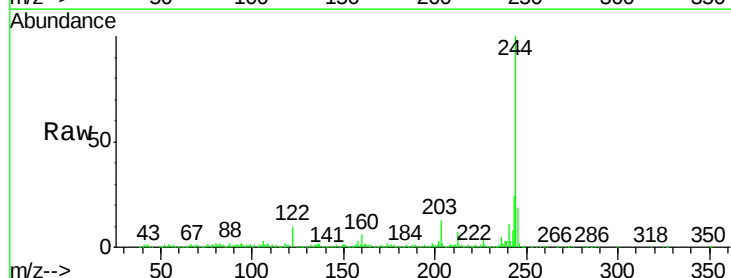
Tgt Ion:244 Resp: 635236

Ion Ratio Lower Upper

244 100

212 6.7 6.3 9.5

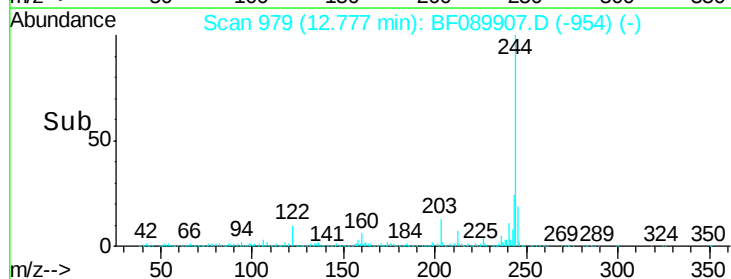
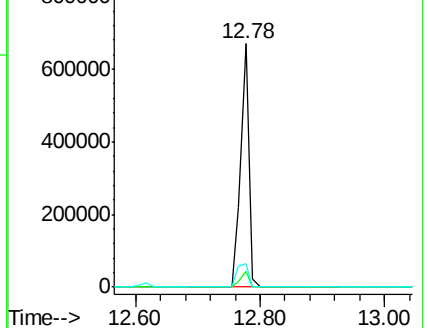
122 9.8 12.0 18.0#

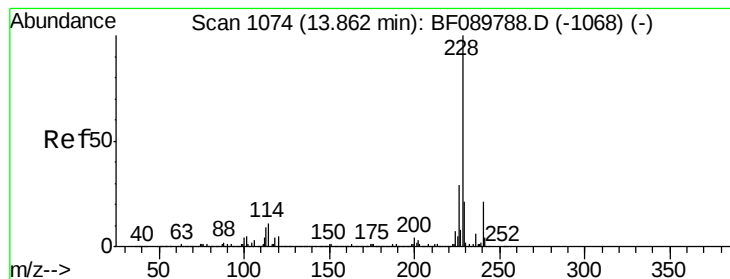


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 13.35 ng

RT: 13.85 min Scan# 1073

Delta R.T. -0.01 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

Instrument :

BNA_F

ClientSampleId :

WC2-W-5-02

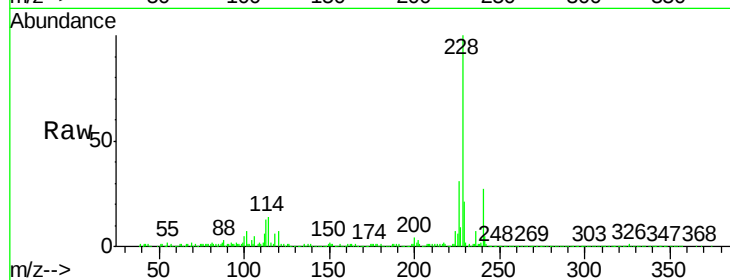
Tgt Ion:228 Resp: 751910

Ion Ratio Lower Upper

228 100

226 31.0 23.2 34.8

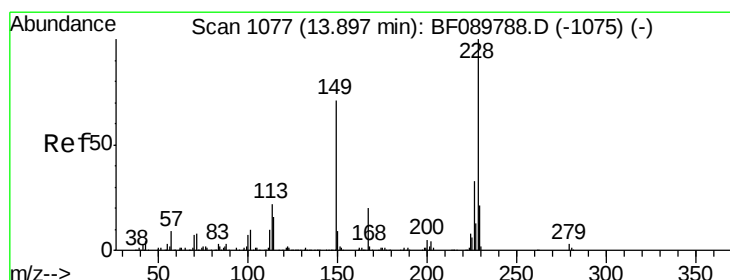
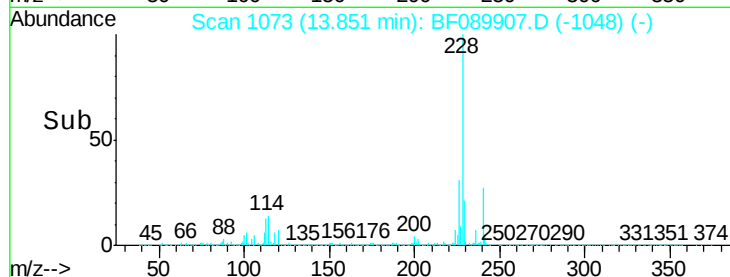
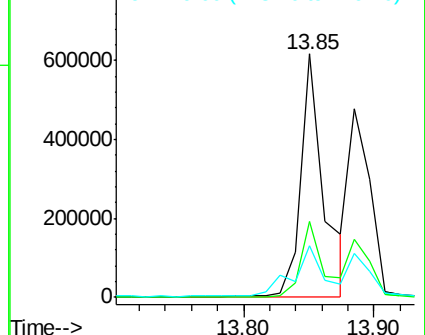
229 21.1 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 11.25 ng

RT: 13.89 min Scan# 1076

Delta R.T. -0.01 min

Lab File: BF089907.D

Acq: 25 Aug 2016 7:18

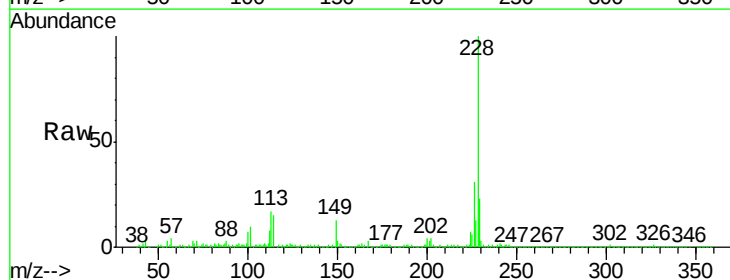
Tgt Ion:228 Resp: 543560

Ion Ratio Lower Upper

228 100

226 30.9 25.4 38.0

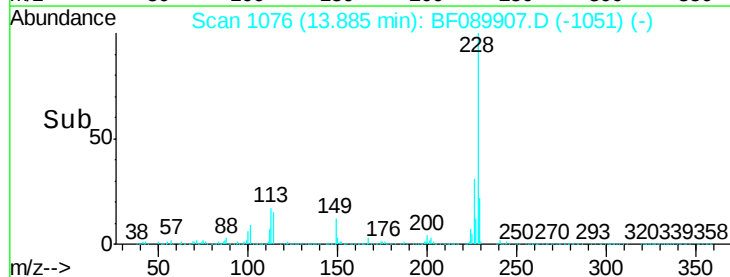
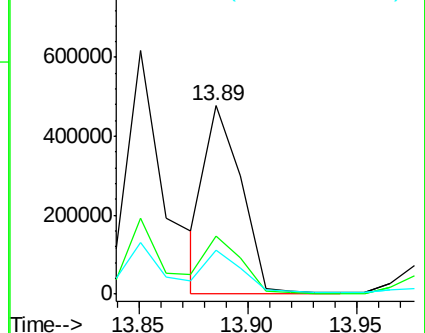
229 23.1 16.5 24.7

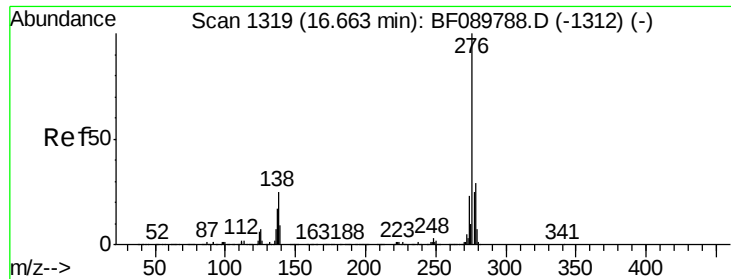


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

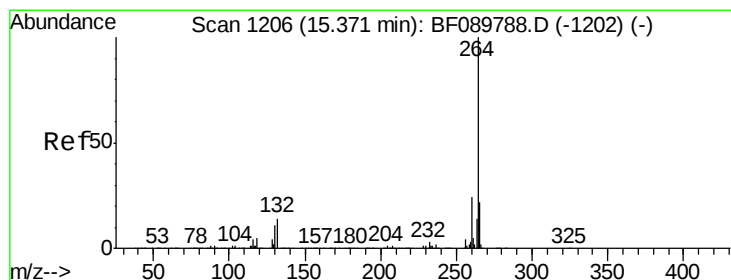
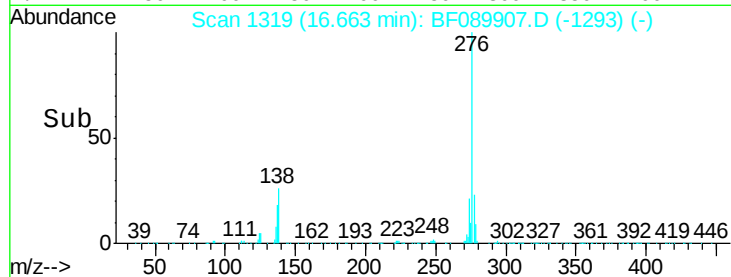
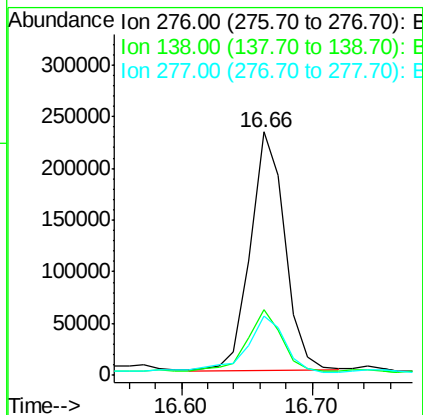
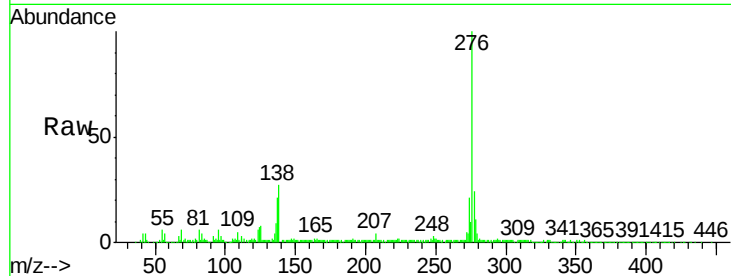




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.89 ng
 RT: 16.66 min Scan# 1319
 Delta R.T. 0.00 min
 Lab File: BF089907.D
 Acq: 25 Aug 2016 7:18

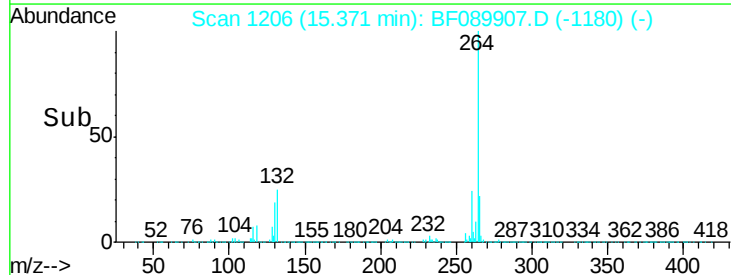
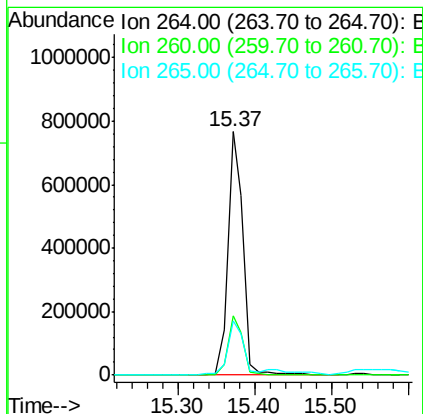
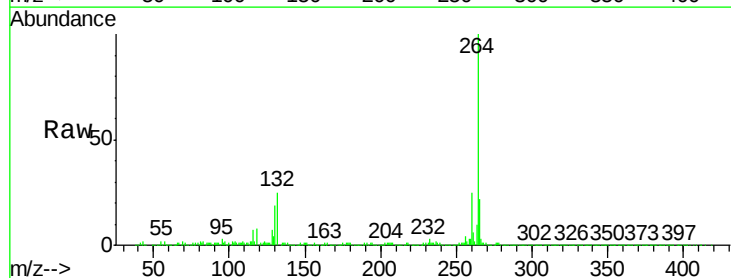
Instrument :
 BNA_F
 ClientSampleId :
 WC2-W-5-02

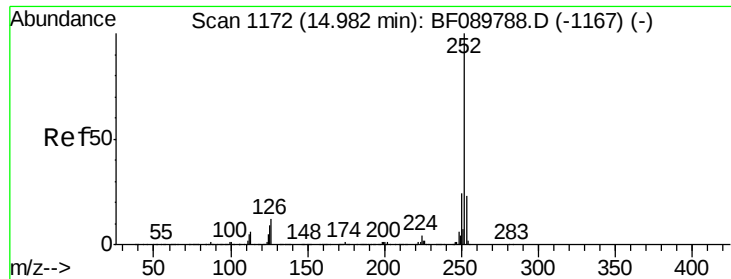
Tgt Ion: 276 Resp: 424729
 Ion Ratio Lower Upper
 276 100
 138 26.4 24.6 36.8
 277 27.1 20.4 30.6



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.37 min Scan# 1206
 Delta R.T. 0.00 min
 Lab File: BF089907.D
 Acq: 25 Aug 2016 7:18

Tgt Ion: 264 Resp: 1060633
 Ion Ratio Lower Upper
 264 100
 260 24.5 20.2 30.2
 265 22.5 17.4 26.2

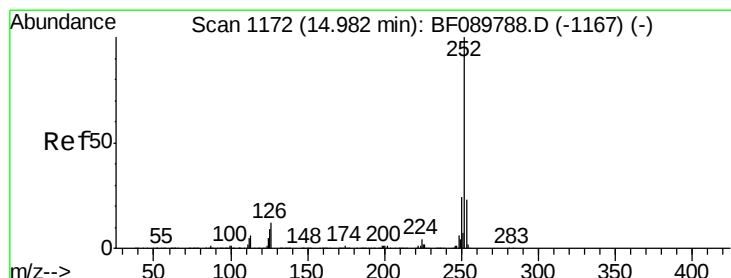
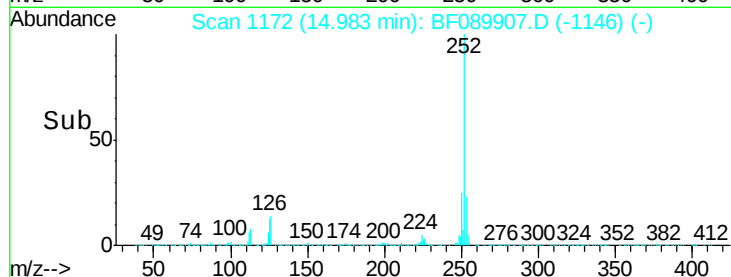
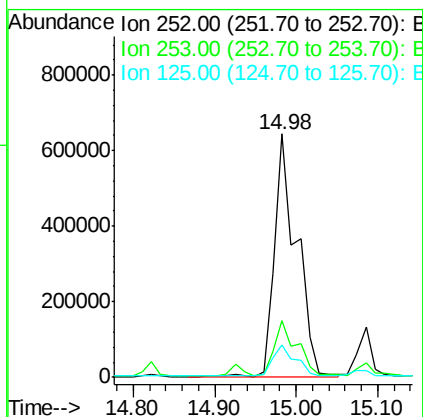
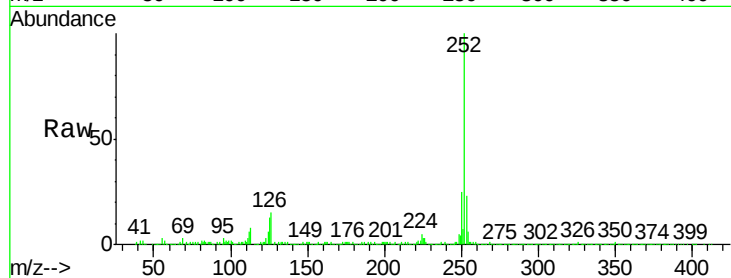




#87
Benzo(b)fluoranthene
Concen: 20.89 ng
RT: 14.98 min Scan# 1172
Delta R.T. 0.00 min
Lab File: BF089907.D
Acq: 25 Aug 2016 7:18

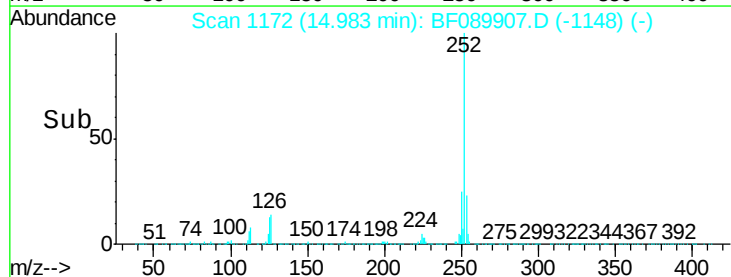
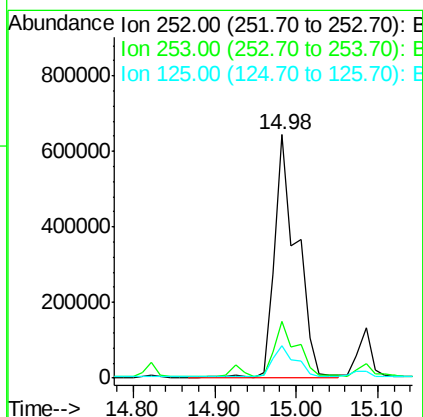
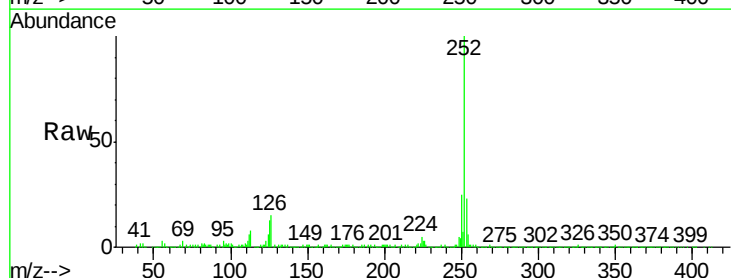
Instrument :
BNA_F
ClientSampleId :
WC2-W-5-02

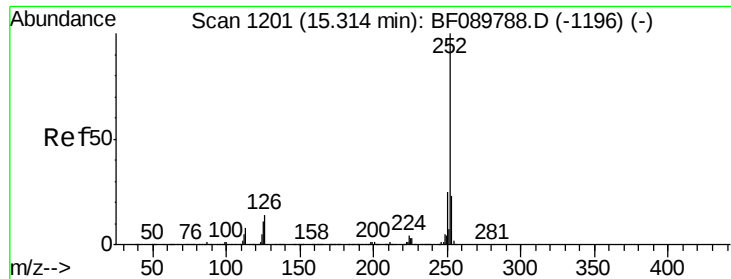
Tgt Ion:252 Resp: 1218823
Ion Ratio Lower Upper
252 100
253 23.3 17.8 26.8
125 13.1 11.4 17.2



#88
Benzo(k)fluoranthene
Concen: 23.02 ng
RT: 14.98 min Scan# 1172
Delta R.T. -0.02 min
Lab File: BF089907.D
Acq: 25 Aug 2016 7:18

Tgt Ion:252 Resp: 1218823
Ion Ratio Lower Upper
252 100
253 23.3 18.4 27.6
125 13.1 9.8 14.6

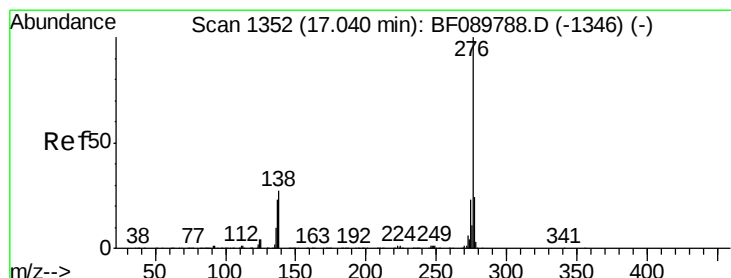
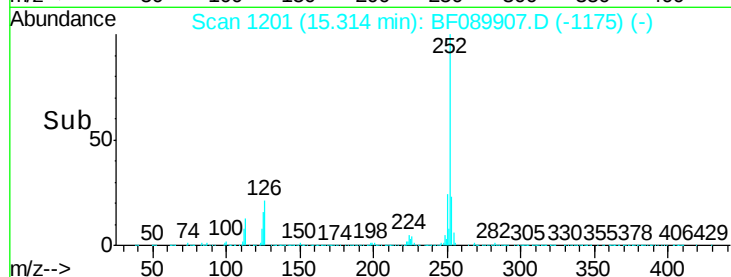
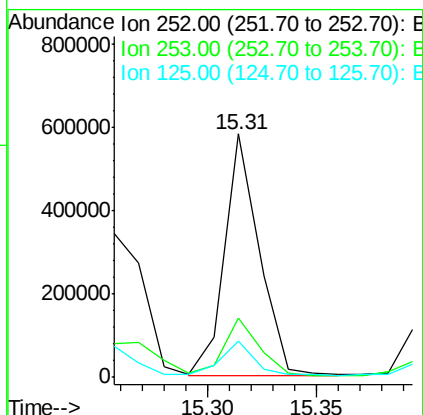
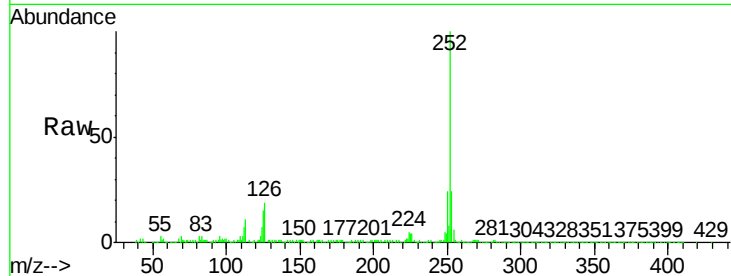




#89
Benzo(a)pyrene
Concen: 11.69 ng
RT: 15.31 min Scan# 1201
Delta R.T. 0.00 min
Lab File: BF089907.D
Acq: 25 Aug 2016 7:18

Instrument :
BNA_F
ClientSampleId :
WC2-W-5-02

Tgt Ion: 252 Resp: 645486
Ion Ratio Lower Upper
252 100
253 24.3 17.8 26.8
125 14.6 11.7 17.5



#91
Benzo(g,h,i)perylene
Concen: 6.85 ng
RT: 17.05 min Scan# 1353
Delta R.T. 0.01 min
Lab File: BF089907.D
Acq: 25 Aug 2016 7:18

Tgt Ion: 276 Resp: 432367
Ion Ratio Lower Upper
276 100
277 24.5 19.2 28.8
138 25.2 22.1 33.1

