

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF100915\
 Data File : BF082160.D
 Acq On : 9 Oct 2015 22:46
 Operator : UM/IZ
 Sample : G3974-01 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MGP222BR-12-14

Manual Integrations
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 10/12/2015 2:46:17 PM

Quant Time: Oct 10 04:40:47 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 09 22:47:26 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	82732	20.00	ng	-0.01
21) Naphthalene-d8	8.15	136	279301	20.00	ng	0.01
38) Acenaphthene-d10	9.90	164	160453	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	211567	20.00	ng	0.02
75) Chrysene-d12	14.05	240	186841	20.00	ng	0.01
86) Perylene-d12	15.49	264	186700	20.00	ng	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.44	112	52135	11.44	ng	0.00
7) Phenol-d6	6.48	99	68556	11.95	ng	-0.01
23) Nitrobenzene-d5	7.42	82	39517	9.43	ng	-0.01
41) 2,4,6-Tribromophenol	10.69	330	12721	7.83	ng	-0.01
44) 2-Fluorobiphenyl	9.21	172	74156	5.65	ng	-0.01
78) Terphenyl-d14	12.97	244	57488	6.28	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.19	128	6676614	539.48	ng	# 91
37) 2-Methylnaphthalene	8.86	142	839311	99.35	ng	# 87
45) 1,1'-Biphenyl	9.31	154	119637	9.66	ng	95
48) Acenaphthylene	9.77	152	1087744	69.92	ng	# 93
51) Acenaphthene	9.94	154	1037289	112.29	ng	# 85
54) Dibenzofuran	10.11	168	768892	58.89	ng	96
57) Fluorene	10.47	166	2348336	261.79	ng	89
70) Phenanthrene	11.45	178	6670851	678.65	ng	# 89
71) Anthracene	11.50	178	2483448	230.95	ng	# 92
72) Carbazole	11.63	167	329953	33.90	ng	95
74) Fluoranthene	12.63	202	3377610	298.02	ng	90
77) Pyrene	12.87	202	4194077	375.75	ng	# 90
80) Benzo(a)anthracene	14.04	228	1623846m	161.40	ng	
82) Chrysene	14.07	228	1454938m	Below Cal		
85) Indeno(1,2,3-cd)pyrene	16.92	276	538326	68.40	ng	# 84
87) Benzo(b)fluoranthene	15.08	252	1189013m	111.55	ng	
88) Benzo(k)fluoranthene	15.10	252	425480m	43.55	ng	
89) Benzo(a)pyrene	15.43	252	953705	103.15	ng	# 86
90) Dibenzo(a,h)anthracene	16.92	278	126775m	16.34	ng	
91) Benzo(g,h,i)perylene	17.35	276	499075	62.78	ng	# 75

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

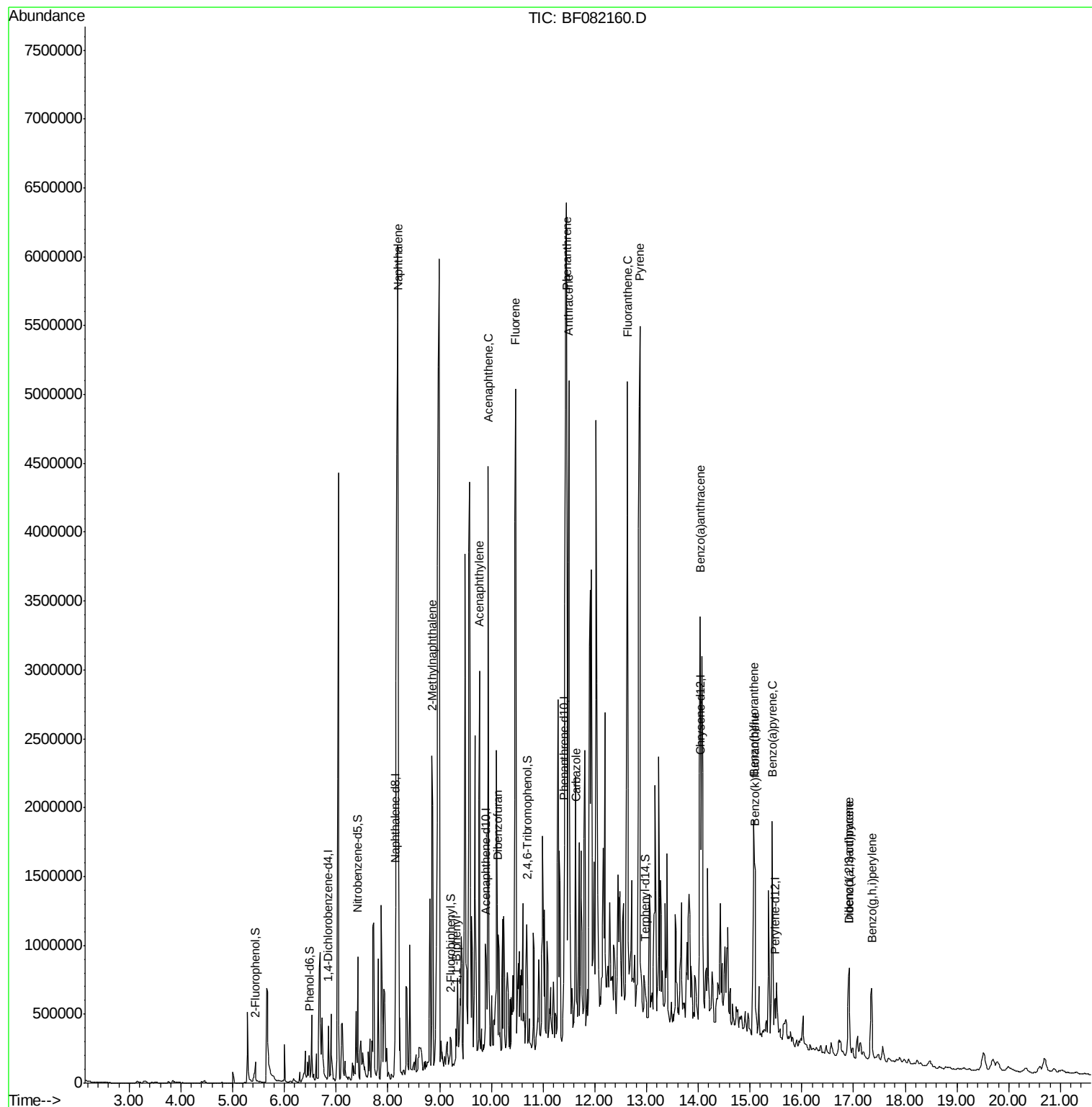
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF100915\
Data File : BF082160.D
Acq On : 9 Oct 2015 22:46
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Misc :
ALS Vial : 19 Sample Multiplier: 1

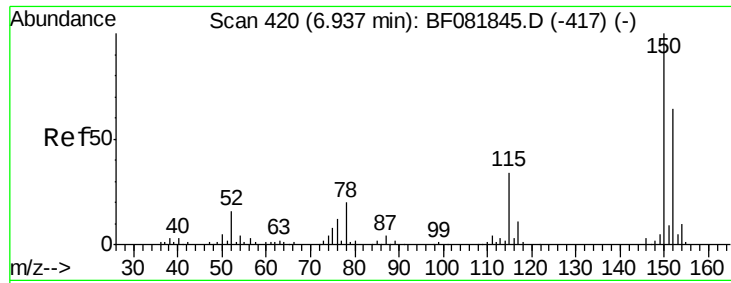
Instrument :
BNA_F
ClientSampleId :
MGP222BR-12-14

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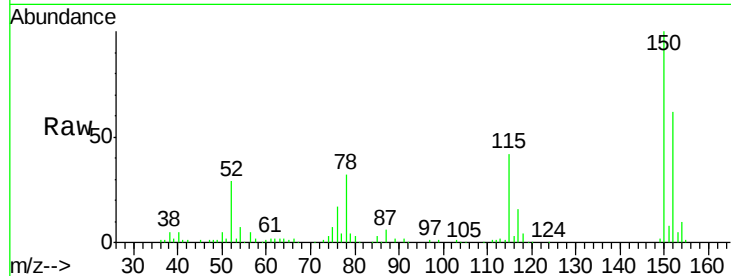
Quant Time: Oct 10 04:40:47 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 09 22:47:26 2015
Response via : Initial Calibration





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.85 min Scan# 412
 Delta R.T. -0.01 min
 Lab File: BF082160.D
 Acq: 9 Oct 2015 22:46

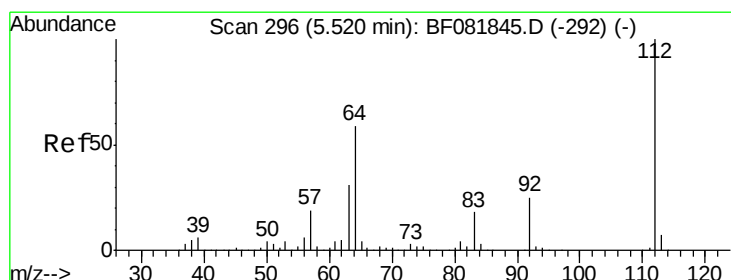
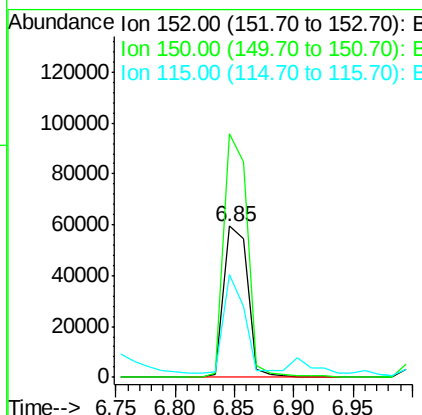
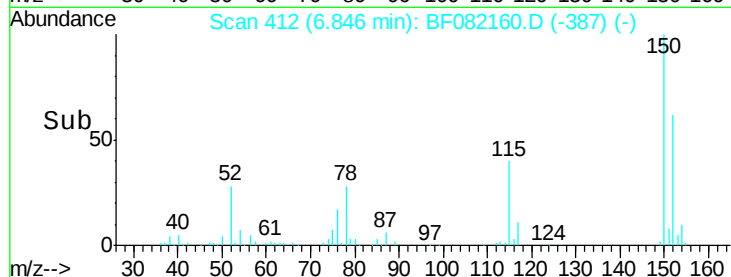
Instrument :
 BNA_F
 ClientSampleId :
 MGP222BR-12-14



Tgt Ion	Ratio	Lower	Upper
152	100		
150	161.4	124.7	187.1
115	68.4	39.0	58.4

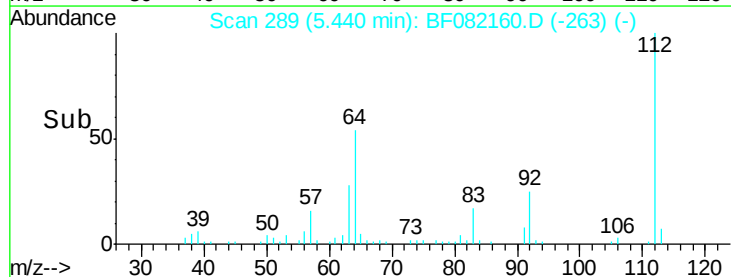
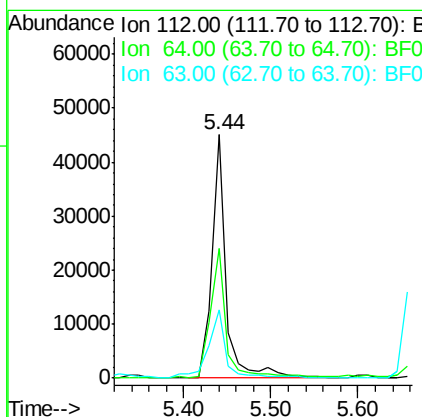
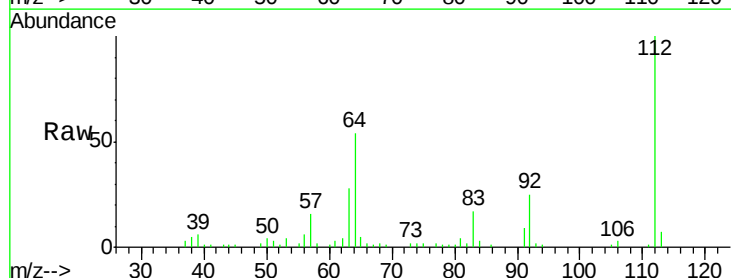
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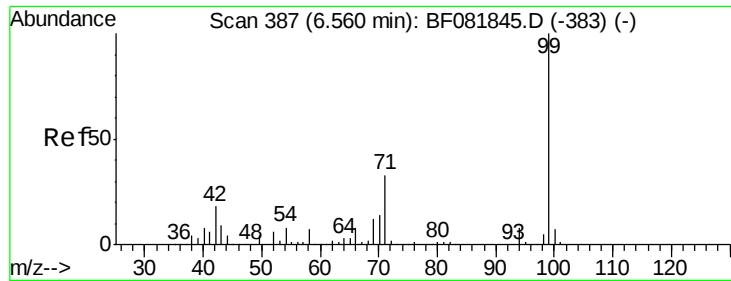
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#5
 2-Fluorophenol
 Concen: 11.44 ng
 RT: 5.44 min Scan# 289
 Delta R.T. -0.00 min
 Lab File: BF082160.D
 Acq: 9 Oct 2015 22:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.5	39.7	59.5
63	28.1	17.4	26.0





#7

Phenol-d6

Concen: 11.95 ng

RT: 6.48 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF082160.D

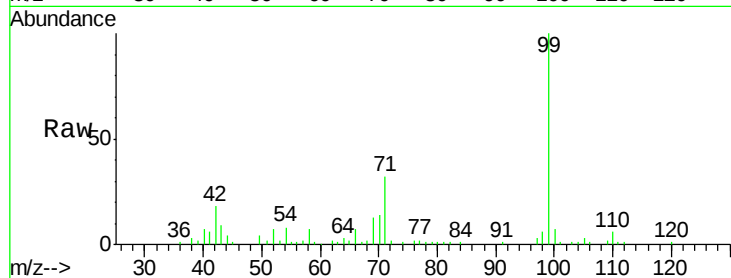
Acq: 9 Oct 2015 22:46

Instrument :

BNA_F

ClientSampleId :

MGP222BR-12-14



Tgt Ion: 99 Resp: 68556

Ion Ratio Lower Upper

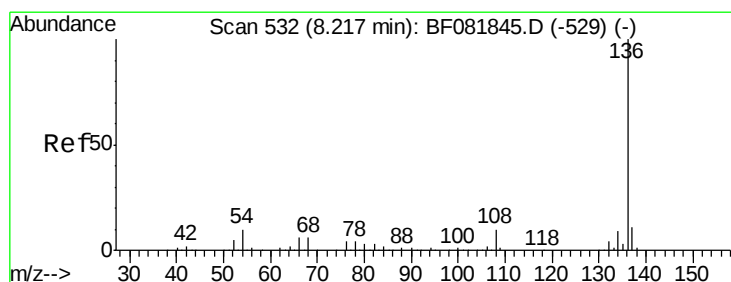
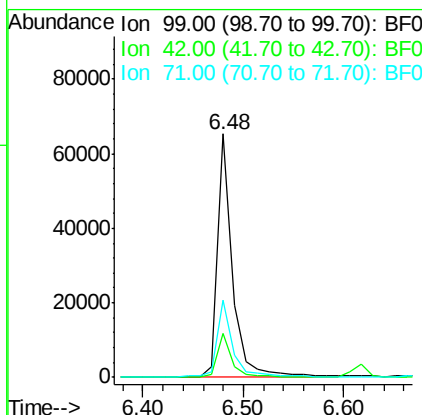
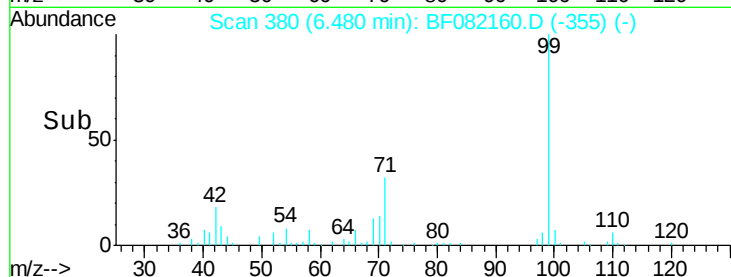
99 100

42 17.9 13.7 20.5

71 31.7 14.2 21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.15 min Scan# 526

Delta R.T. 0.01 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

Tgt Ion: 136 Resp: 279301

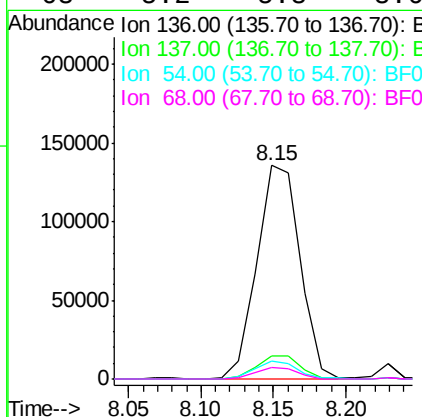
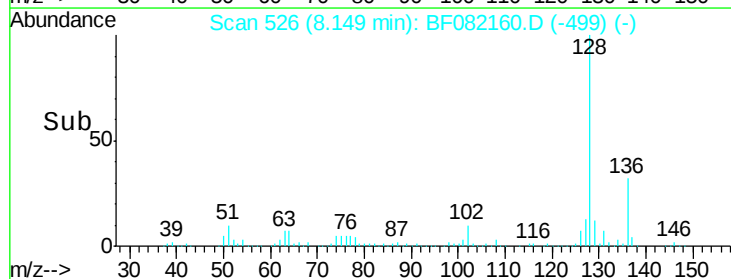
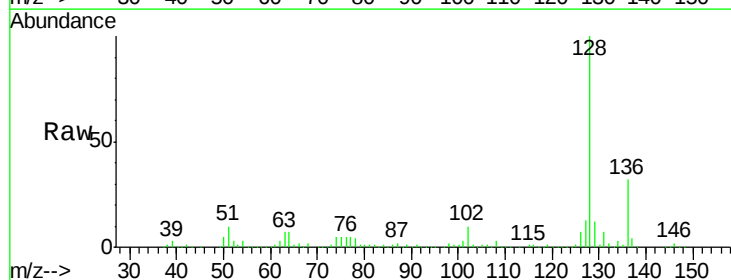
Ion Ratio Lower Upper

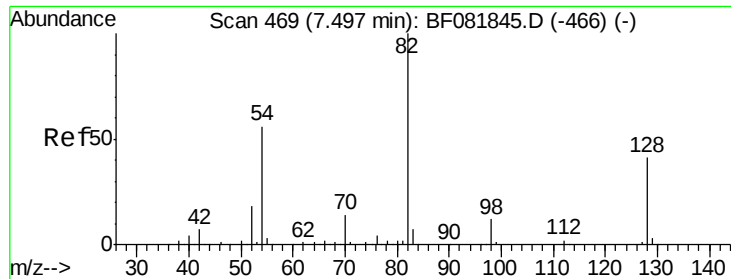
136 100

137 10.9 9.0 13.6

54 8.6 8.2 12.2

68 5.2 5.8 8.6#





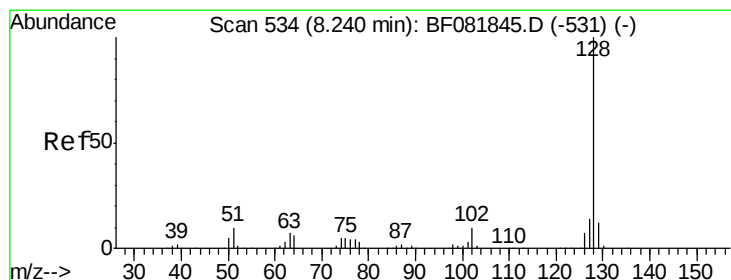
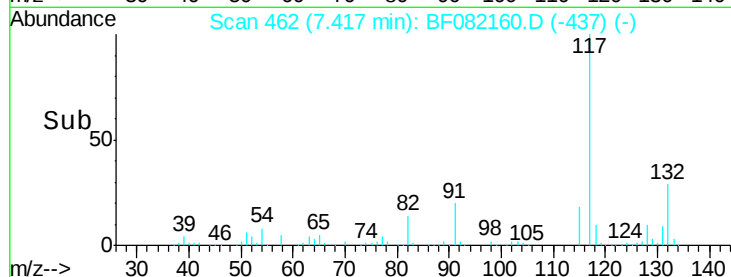
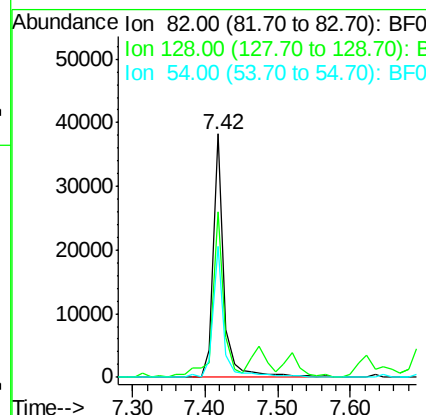
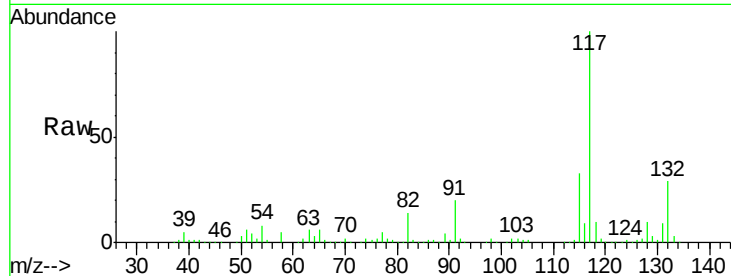
#23
Nitrobenzene-d5
Concen: 9.43 ng
RT: 7.42 min Scan# 462
Delta R.T. -0.01 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Instrument :
BNA_F
ClientSampleId :
MGP222BR-12-14

Tgt Ion	Ratio	Lower	Upper
82	100		
128	67.9	51.0	76.6
54	53.9	47.5	71.3

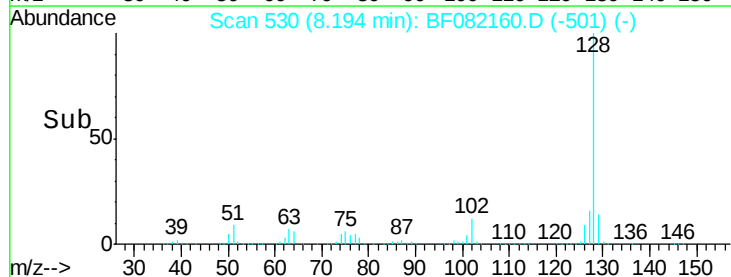
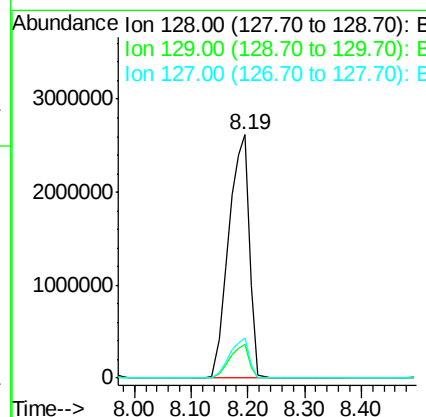
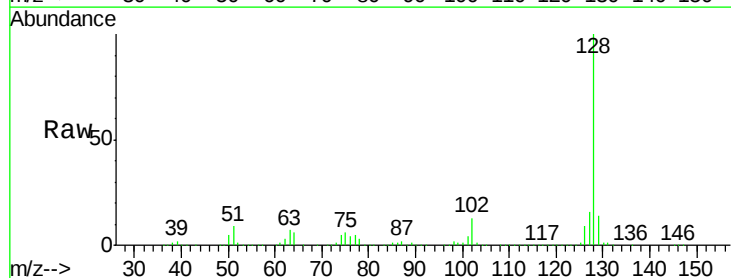
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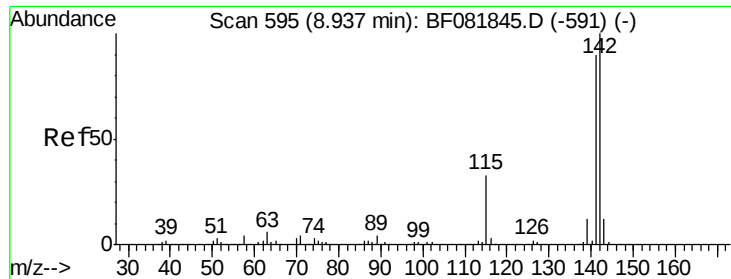
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#31
Naphthalene
Concen: 539.48 ng
RT: 8.19 min Scan# 530
Delta R.T. 0.03 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

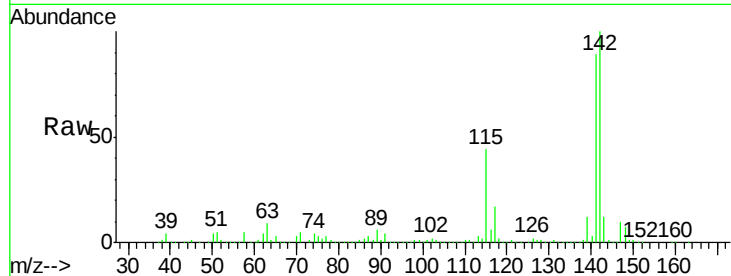
Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.6	8.4	12.6#
127	16.3	9.9	14.9#





#37
2-Methylnaphthalene
Concen: 99.35 ng
RT: 8.86 min Scan# 588
Delta R.T. -0.00 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

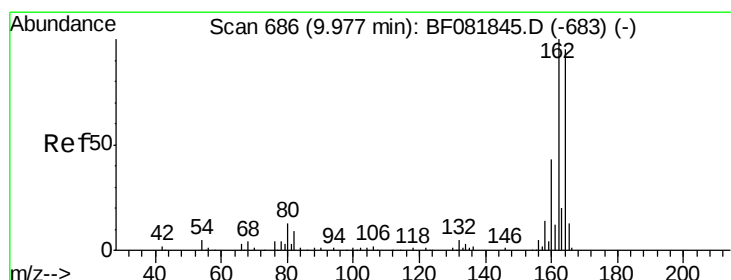
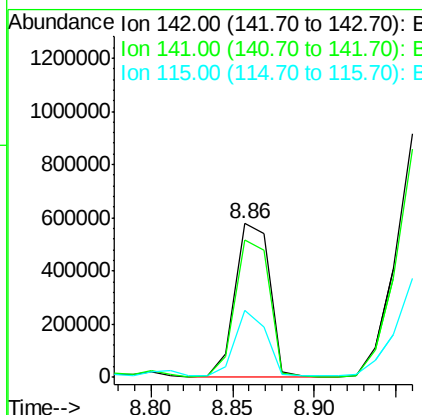
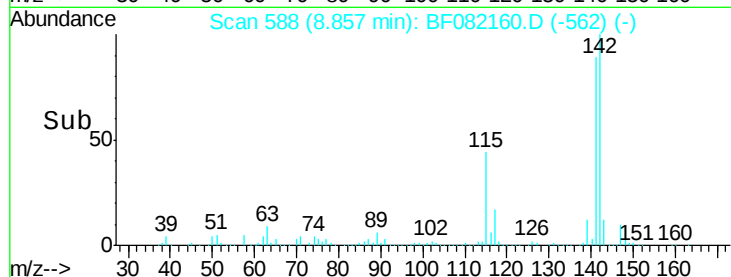
Instrument :
BNA_F
ClientSampleId :
MGP222BR-12-14



Tgt Ion	Ratio	Resp	Lower	Upper
142	100	839311		
141	89.2	67.5	101.3	
115	43.9	18.2	27.2	

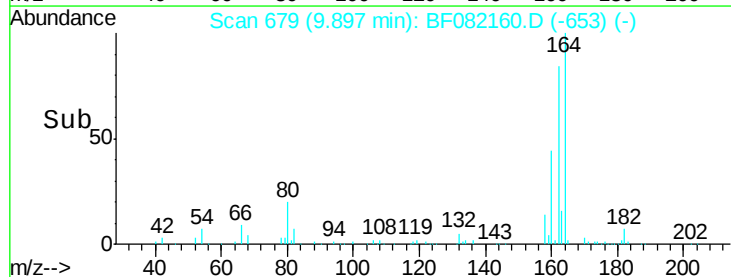
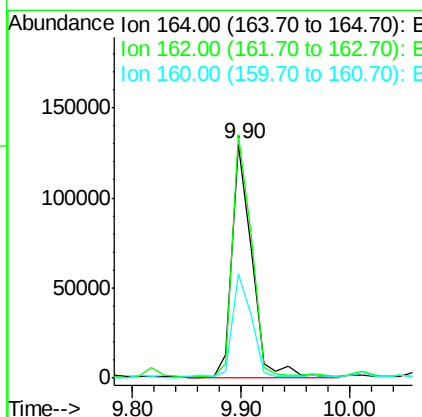
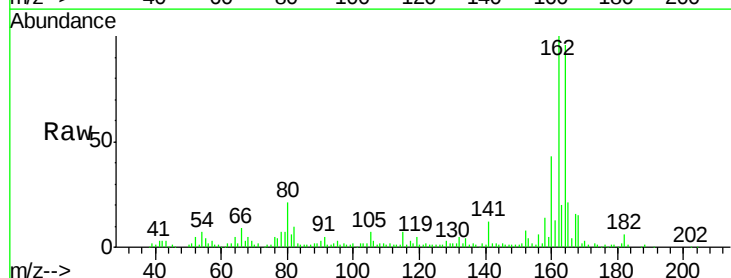
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.90 min Scan# 679
Delta R.T. -0.00 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	160453		
162	104.2	75.2	112.8	
160	44.3	31.5	47.3	





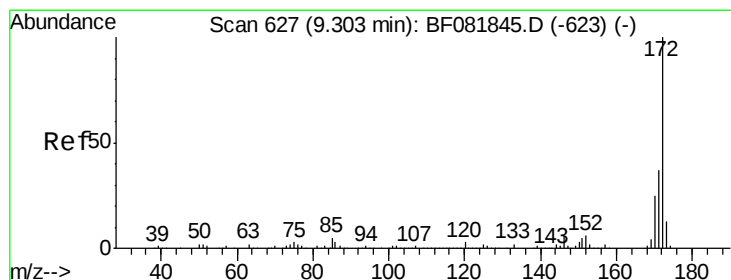
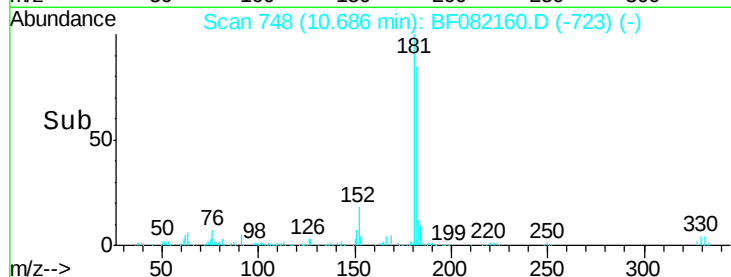
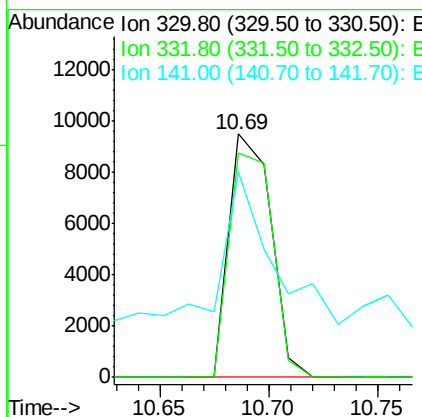
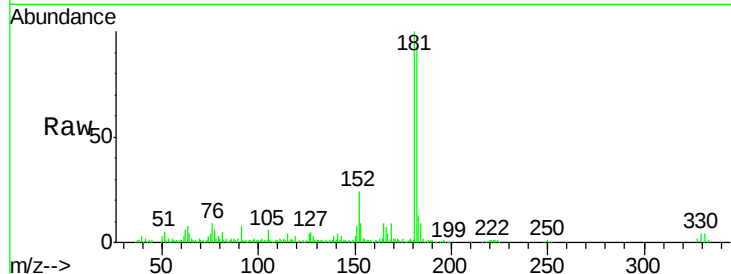
#41
 2,4,6-Tribromophenol
 Concen: 7.83 ng
 RT: 10.69 min Scan# 748
 Delta R.T. -0.01 min
 Lab File: BF082160.D
 Acq: 9 Oct 2015 22:46

Instrument :
 BNA_F
 ClientSampleId :
 MGP222BR-12-14

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.6	114.8
141	70.6	29.7	44.5#

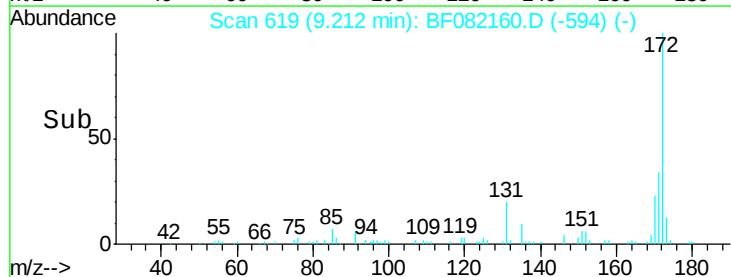
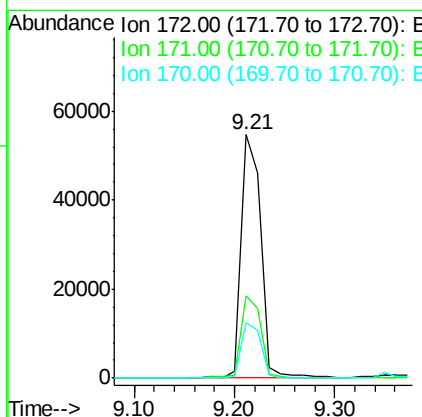
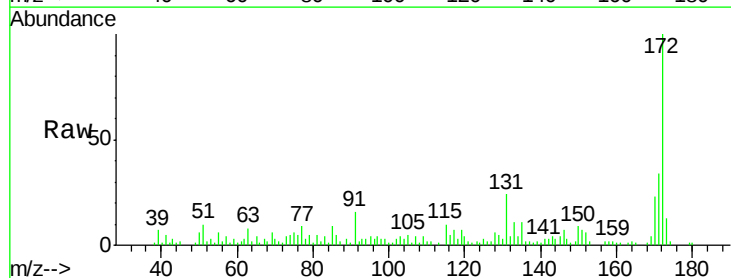
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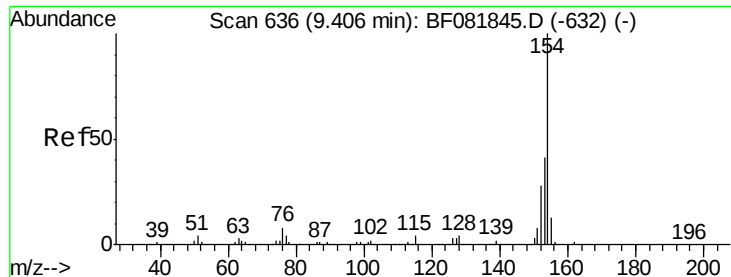
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#44
 2-Fluorobiphenyl
 Concen: 5.65 ng
 RT: 9.21 min Scan# 619
 Delta R.T. -0.01 min
 Lab File: BF082160.D
 Acq: 9 Oct 2015 22:46

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.7	26.1	39.1
170	22.5	17.4	26.2





#45

1,1'-Biphenyl

Concen: 9.66 ng

RT: 9.31 min Scan# 628

Delta R.T. -0.01 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

Instrument :

BNA_F

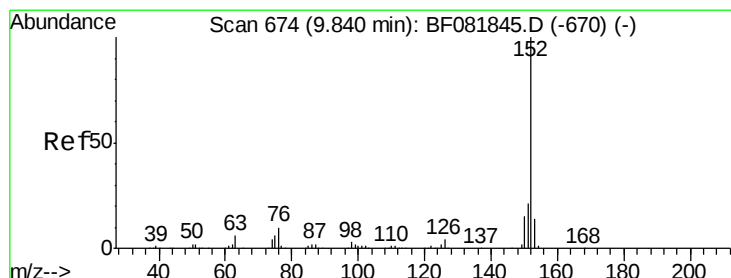
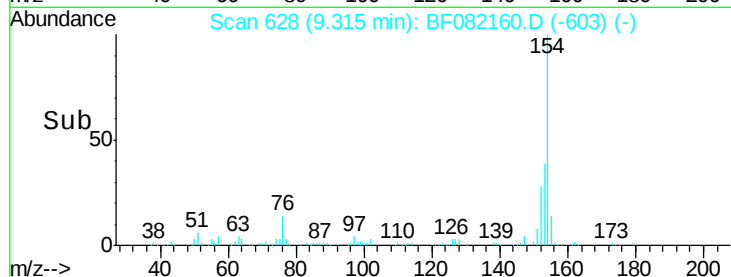
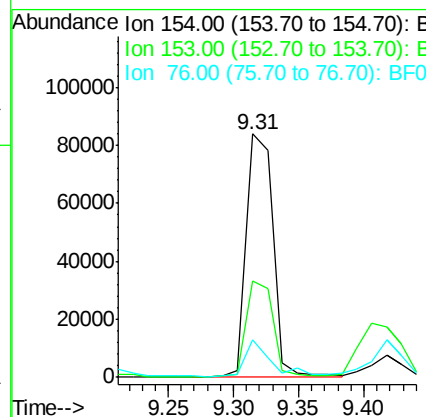
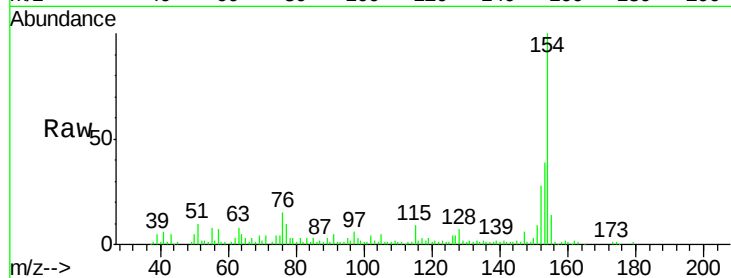
ClientSampleId :

MGP222BR-12-14

Tgt Ion:	154	Resp:	119637
Ion Ratio	Lower	Upper	
154	100		
153	39.5	17.1	57.1
76	15.2	0.0	31.6

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#48

Acenaphthylene

Concen: 69.92 ng

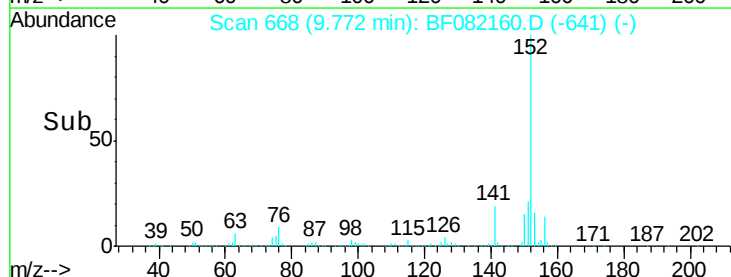
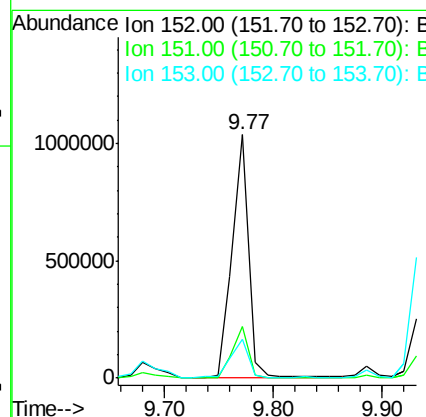
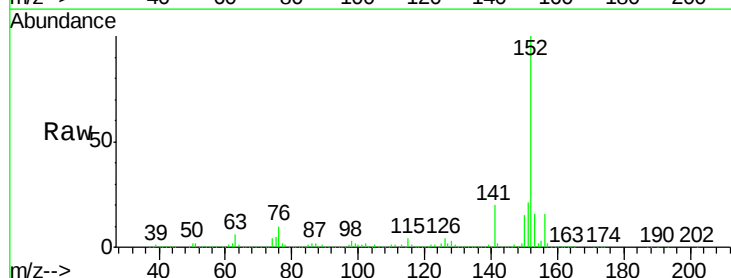
RT: 9.77 min Scan# 668

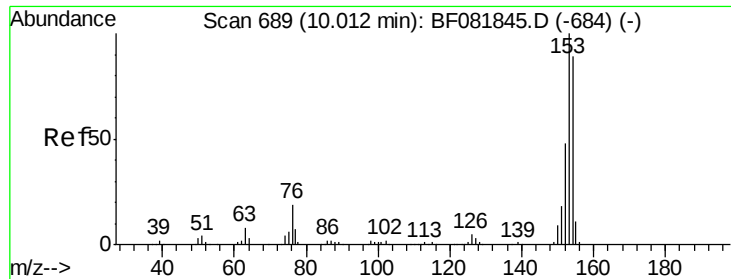
Delta R.T. 0.01 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

Tgt Ion:	152	Resp:	1087744
Ion Ratio	Lower	Upper	
152	100		
151	21.3	14.6	22.0
153	16.0	10.3	15.5#





#51

Acenaphthene

Concen: 112.29 ng

RT: 9.94 min Scan# 683

Delta R.T. 0.01 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

Instrument :

BNA_F

ClientSampleId :

MGP222BR-12-14

Tgt Ion:154 Resp: 1037289

Ion Ratio Lower Upper

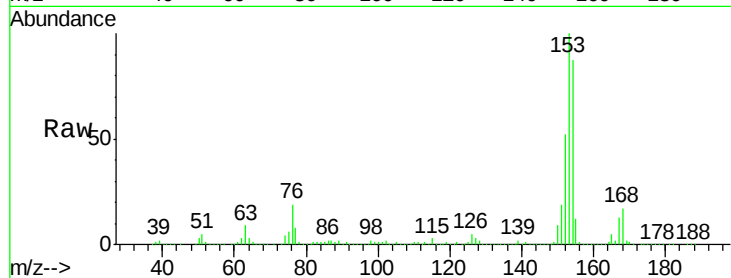
154 100

153 115.6 82.1 123.1

152 60.2 37.9 56.9#

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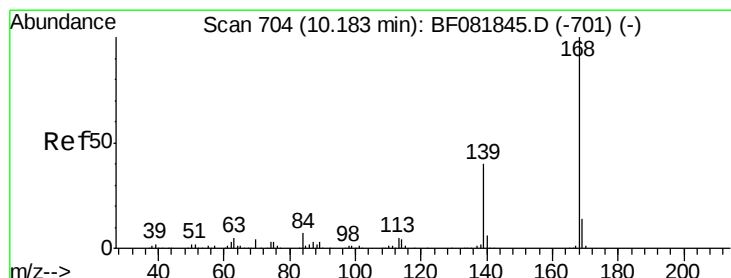
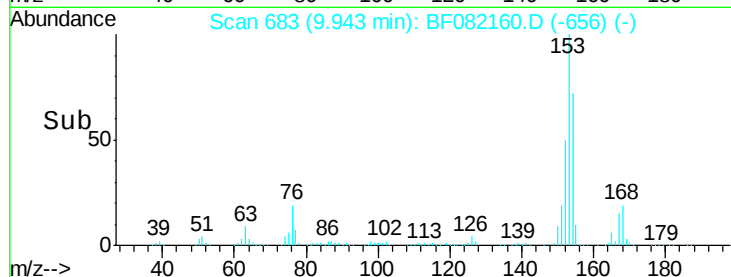
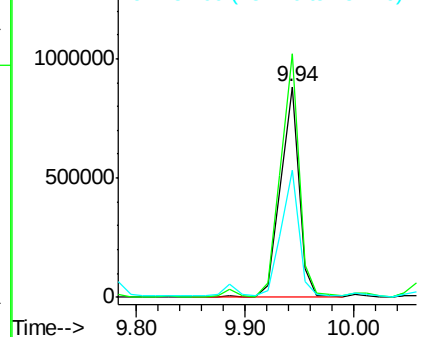
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Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 58.89 ng

RT: 10.11 min Scan# 698

Delta R.T. 0.01 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

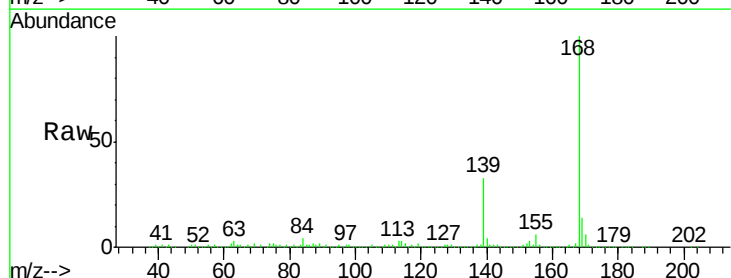
Tgt Ion:168 Resp: 768892

Ion Ratio Lower Upper

168 100

139 33.0 24.2 36.2

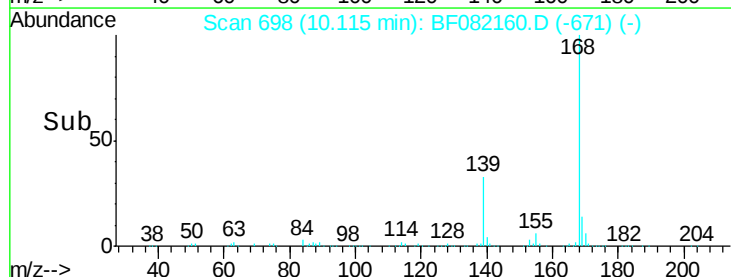
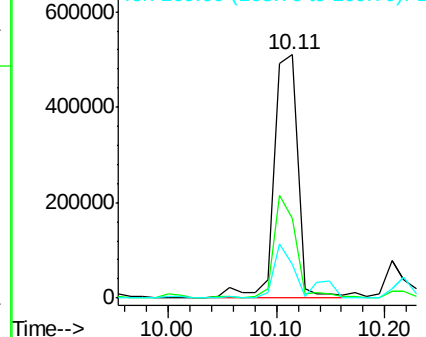
169 13.9 10.6 15.8

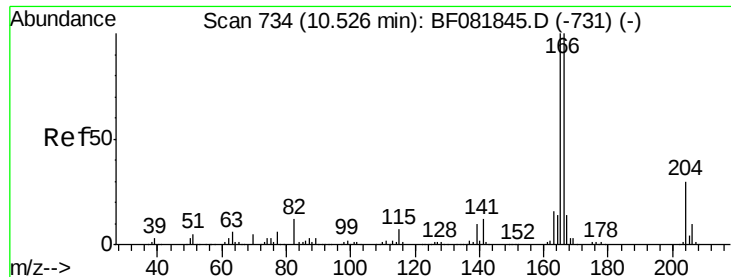


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 261.79 ng

RT: 10.47 min Scan# 729

Delta R.T. 0.02 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

Instrument :

BNA_F

ClientSampleId :

MGP222BR-12-14

Tgt Ion:166 Resp: 2348336

Ion Ratio Lower Upper

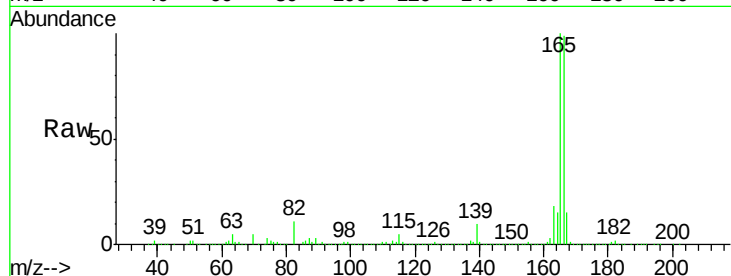
166 100

165 101.5 72.6 109.0

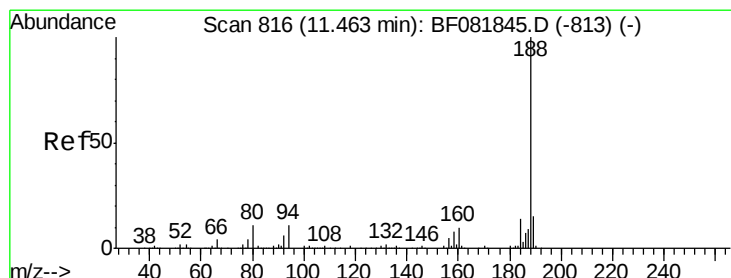
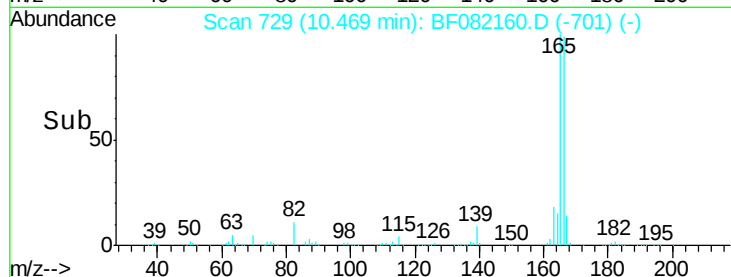
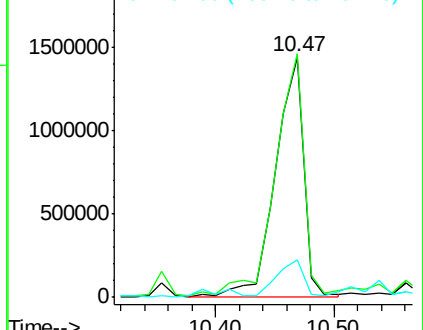
167 15.4 10.6 16.0

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Abundance Ion 166.00 (165.70 to 166.70): E
2000000 Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 811

Delta R.T. 0.02 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

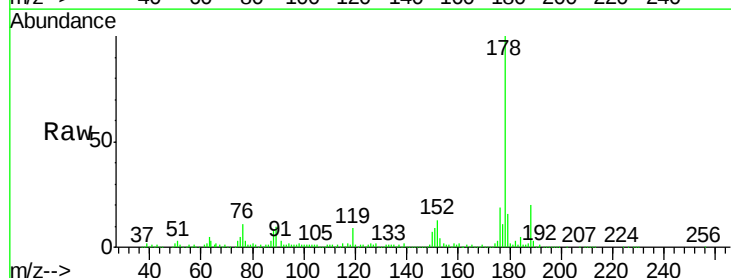
Tgt Ion:188 Resp: 211567

Ion Ratio Lower Upper

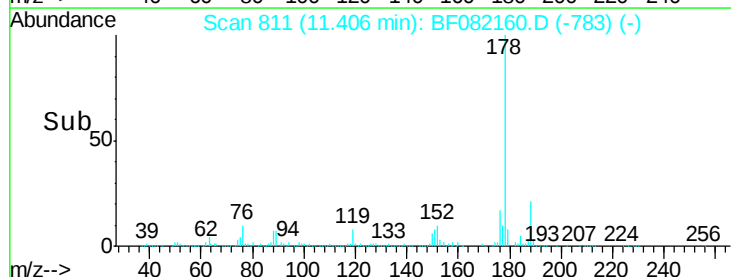
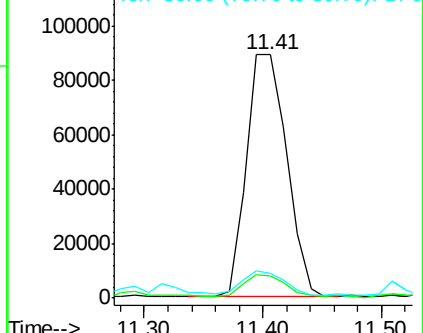
188 100

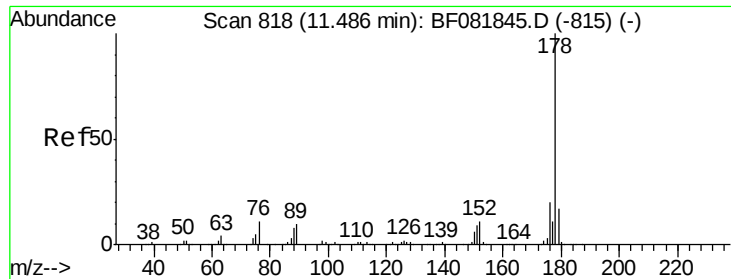
94 9.0 11.1 16.7#

80 10.3 11.0 16.4#



Abundance Ion 188.00 (187.70 to 188.70): E
120000 Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





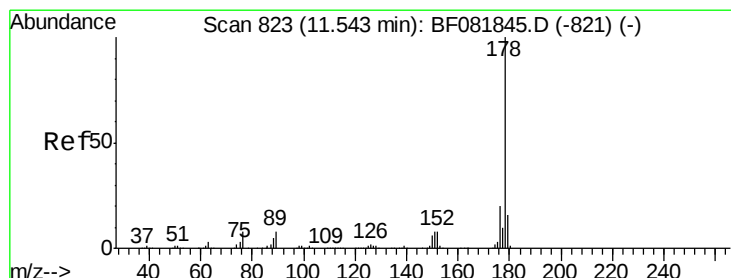
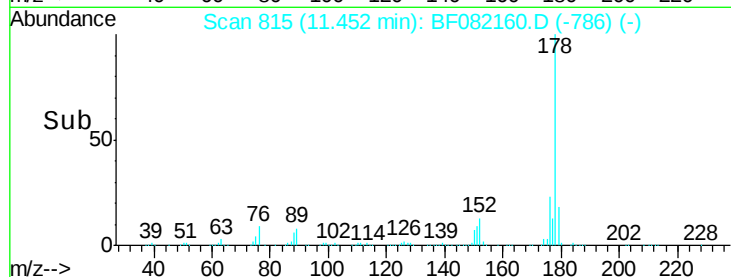
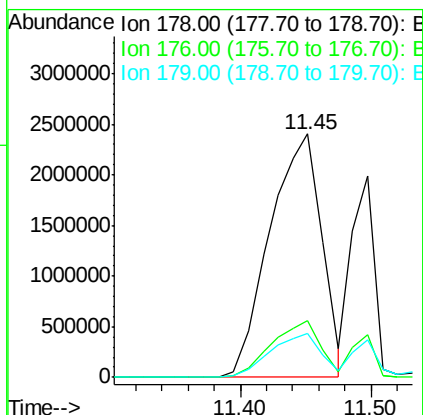
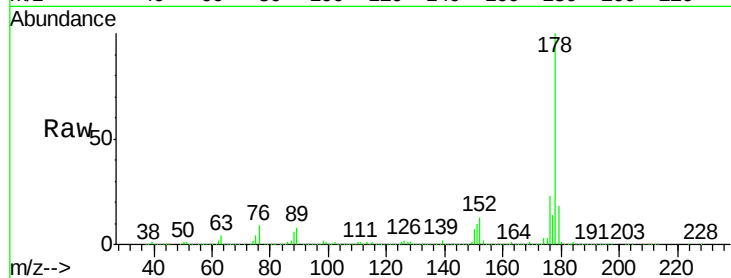
#70
Phenanthrene
Concen: 678.65 ng
RT: 11.45 min Scan# 815
Delta R.T. 0.03 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Instrument :
BNA_F
ClientSampleId :
MGP222BR-12-14

Tgt Ion:178 Resp: 6670851
Ion Ratio Lower Upper
178 100
176 23.3 13.8 20.8#
179 18.3 12.2 18.2#

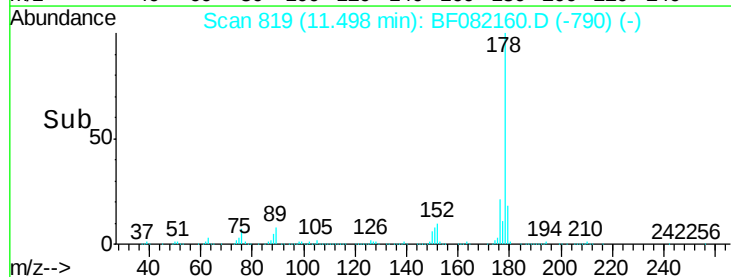
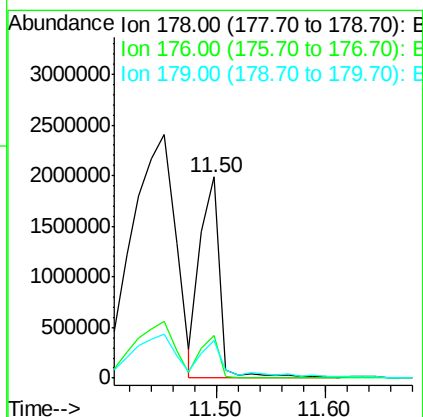
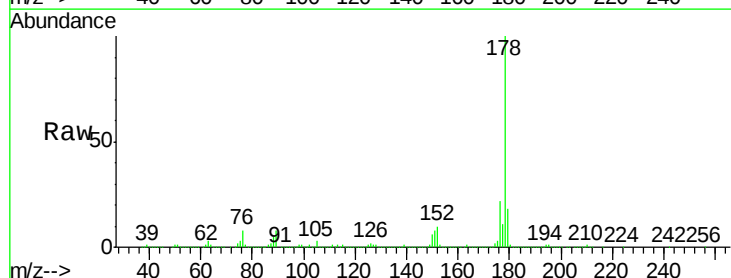
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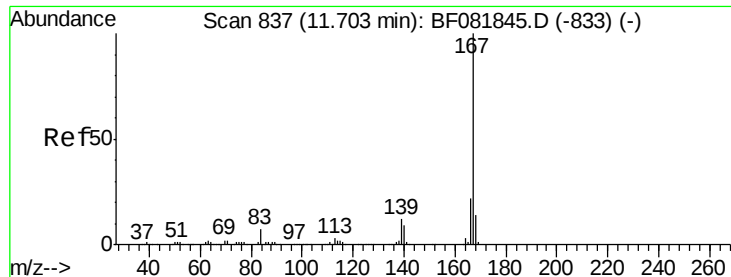
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#71
Anthracene
Concen: 230.95 ng
RT: 11.50 min Scan# 819
Delta R.T. 0.03 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Tgt Ion:178 Resp: 2483448
Ion Ratio Lower Upper
178 100
176 21.5 14.1 21.1#
179 18.4 12.2 18.2#





#72

Carbazole

Concen: 33.90 ng

RT: 11.63 min Scan# 831

Delta R.T. 0.01 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

Instrument :

BNA_F

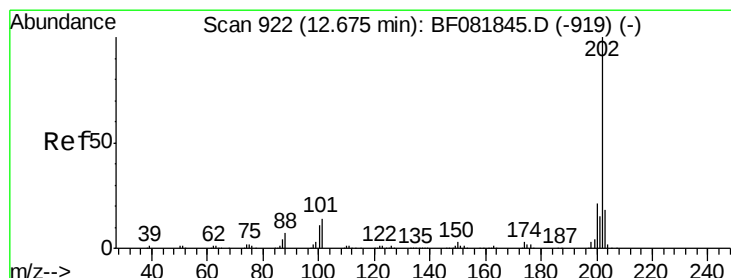
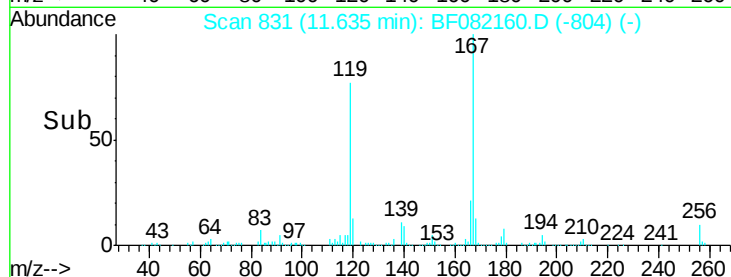
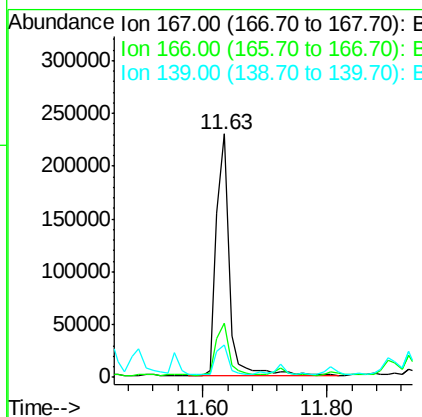
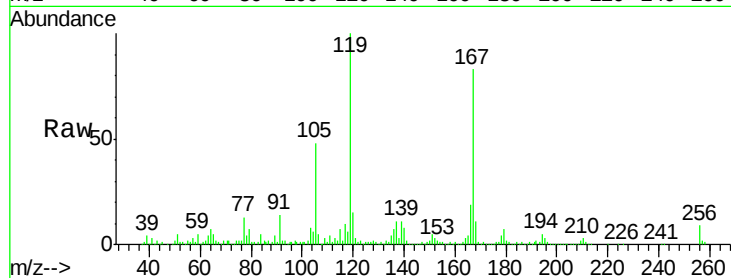
ClientSampleId :

MGP222BR-12-14

Tgt Ion:	167	Resp:	329953
Ion Ratio	Lower	Upper	
167	100		
166	22.3	15.7	23.5
139	13.1	9.5	14.3

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#74

Fluoranthene

Concen: 298.02 ng

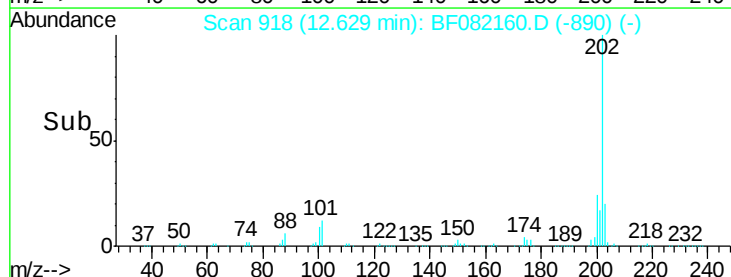
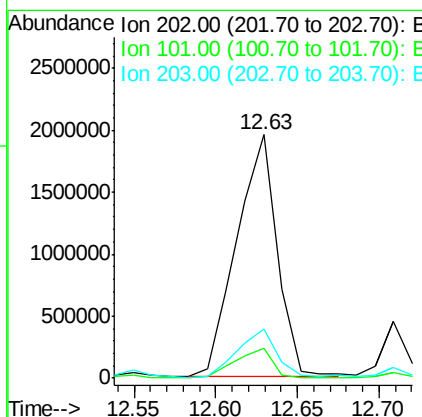
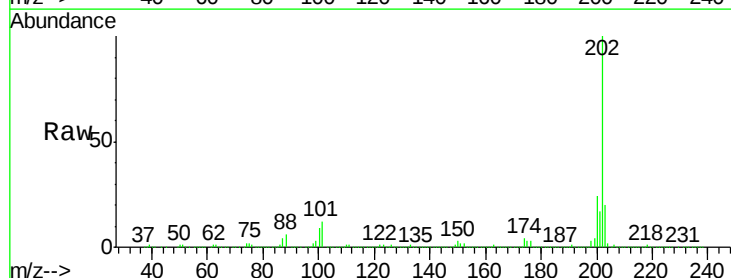
RT: 12.63 min Scan# 918

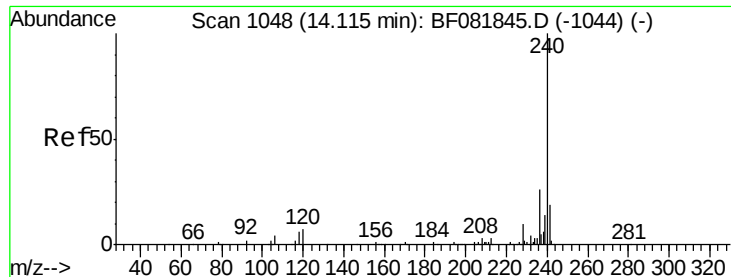
Delta R.T. 0.02 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

Tgt Ion:	202	Resp:	3377610
Ion Ratio	Lower	Upper	
202	100		
101	12.0	0.0	38.3
203	20.0	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1042

Delta R.T. 0.01 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

Instrument :

BNA_F

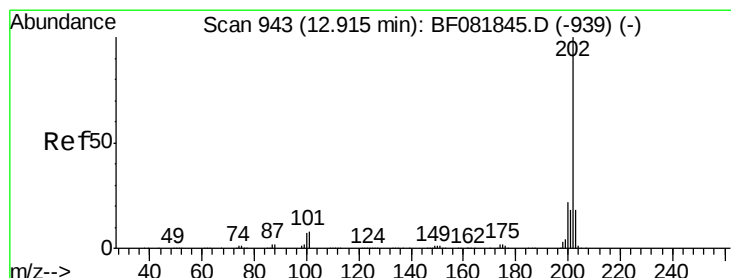
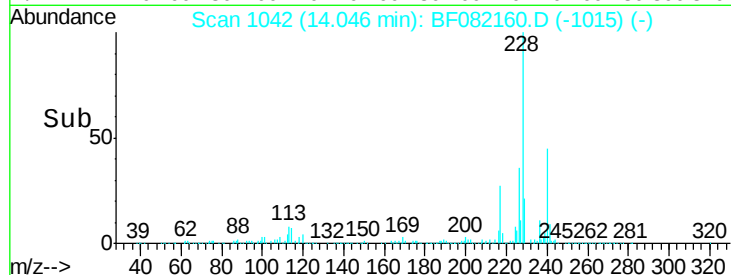
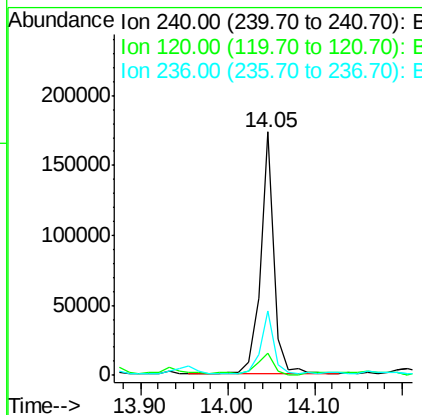
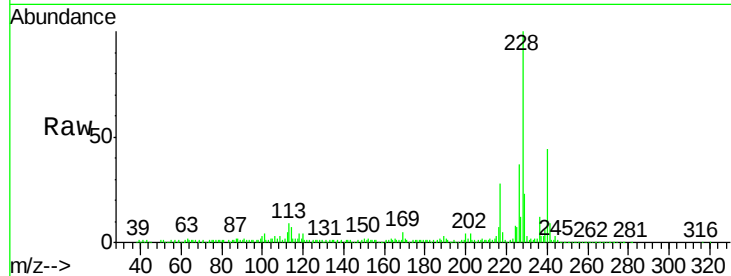
ClientSampleId :

MGP222BR-12-14

Tgt Ion:	240	Resp:	186841
Ion Ratio	Lower	Upper	
240	100		
120	9.1	16.2	24.2#
236	26.3	18.4	27.6

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#77

Pyrene

Concen: 375.75 ng

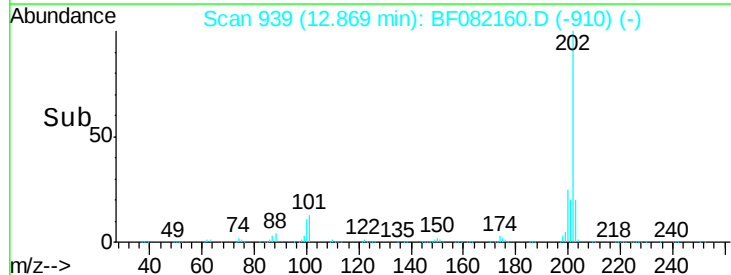
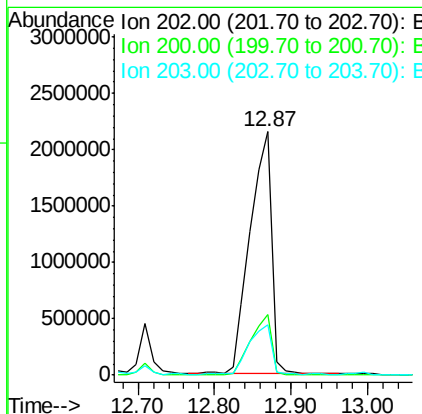
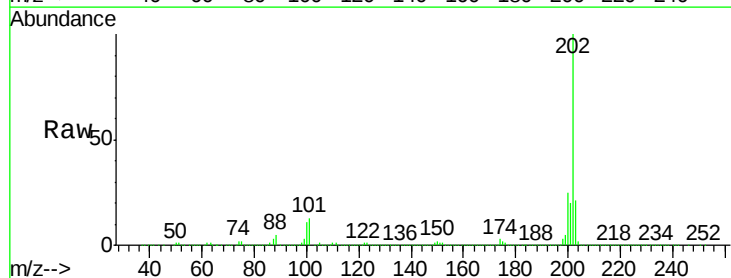
RT: 12.87 min Scan# 939

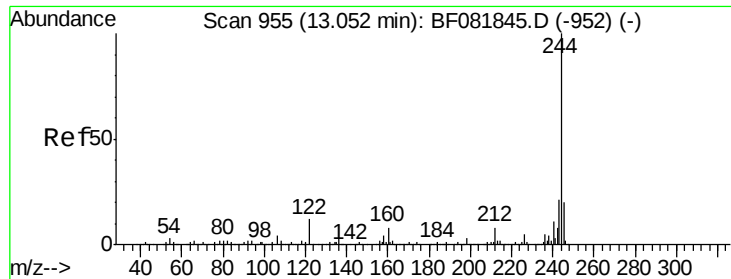
Delta R.T. 0.03 min

Lab File: BF082160.D

Acq: 9 Oct 2015 22:46

Tgt Ion:	202	Resp:	4194077
Ion Ratio	Lower	Upper	
202	100		
200	25.0	15.0	22.4#
203	20.5	14.1	21.1





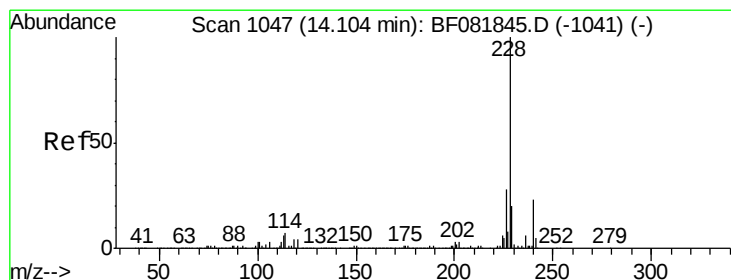
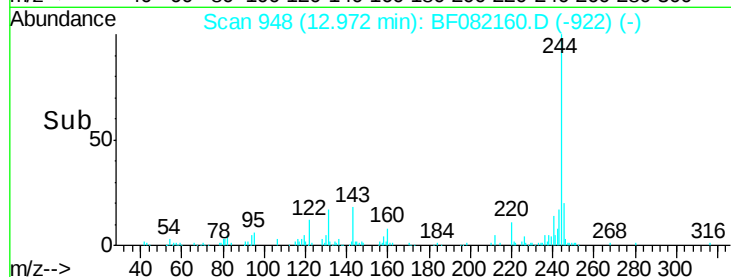
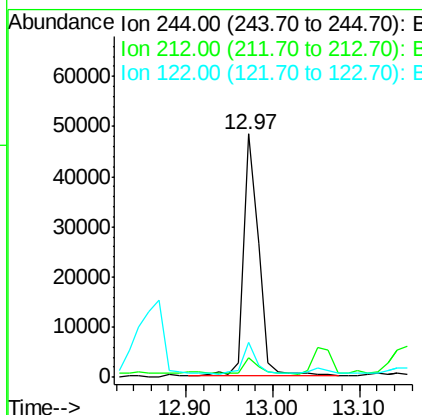
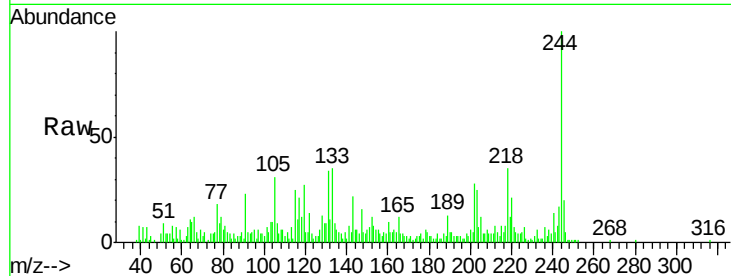
#78
 Terphenyl-d14
 Concen: 6.28 ng
 RT: 12.97 min Scan# 948
 Delta R.T. -0.00 min
 Lab File: BF082160.D
 Acq: 9 Oct 2015 22:46

Instrument :
 BNA_F
 ClientSampleId :
 MGP222BR-12-14

Tgt Ion:244 Resp: 57488
 Ion Ratio Lower Upper
 244 100
 212 8.3 4.3 6.5#
 122 14.4 17.4 26.2#

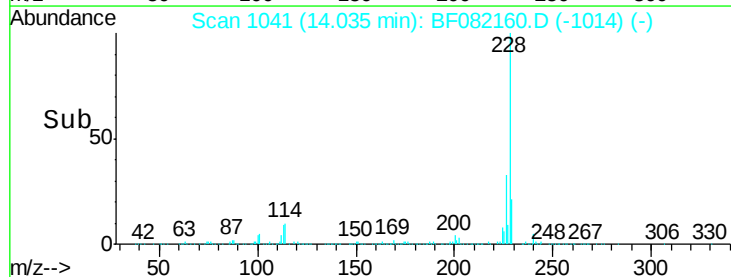
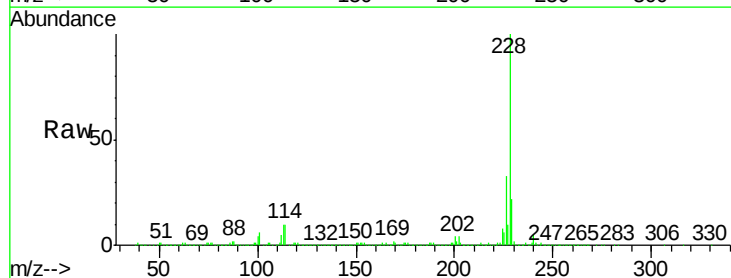
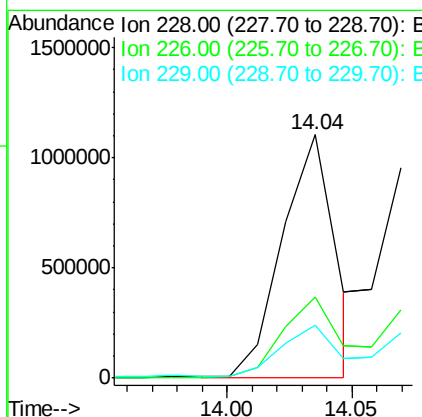
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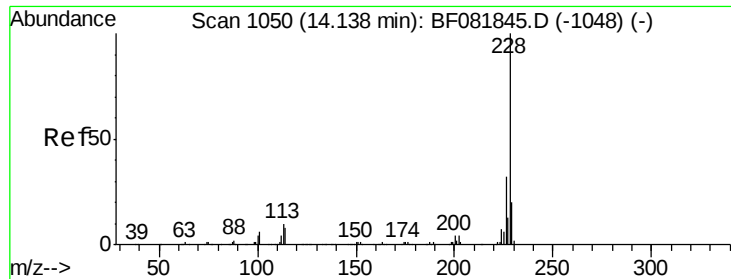
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#80
 Benzo(a)anthracene
 Concen: 161.40 ng m
 RT: 14.04 min Scan# 1041
 Delta R.T. 0.01 min
 Lab File: BF082160.D
 Acq: 9 Oct 2015 22:46

Tgt Ion:228 Resp: 1623846
 Ion Ratio Lower Upper
 228 100
 226 33.3 20.0 30.0#
 229 21.8 15.4 23.2





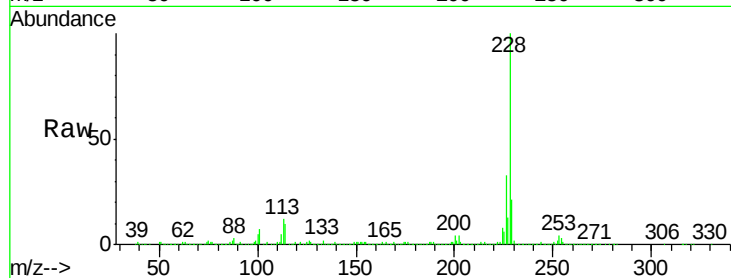
#82
Chrysene
Concen: Below Cal m
RT: 14.07 min Scan# 1044
Delta R.T. 0.01 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Instrument :
BNA_F
ClientSampleId :
MGP222BR-12-14

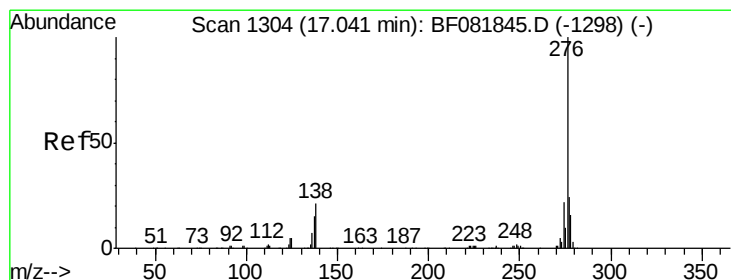
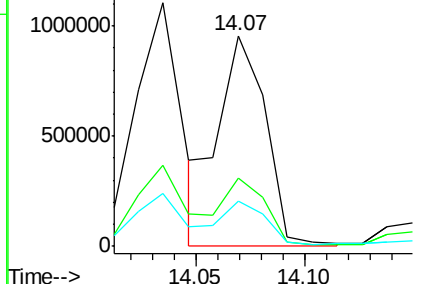
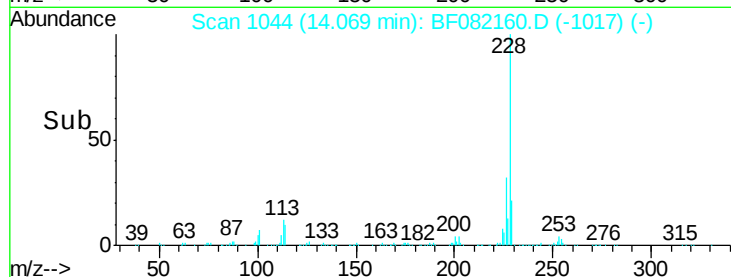
Tgt Ion:228 Resp: 1454938
Ion Ratio Lower Upper
228 100
226 32.5 21.0 31.4#
229 21.4 15.6 23.4

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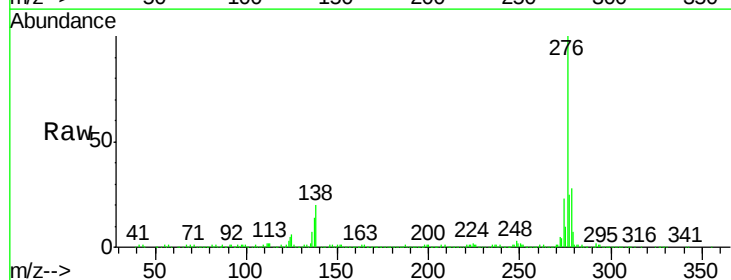


Abundance Ion 228.00 (227.70 to 228.70): E
1500000
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

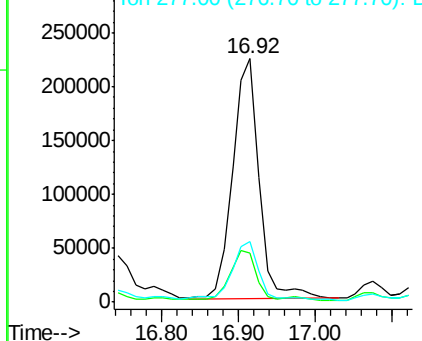
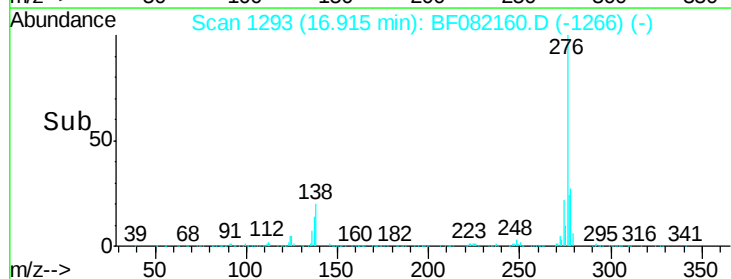


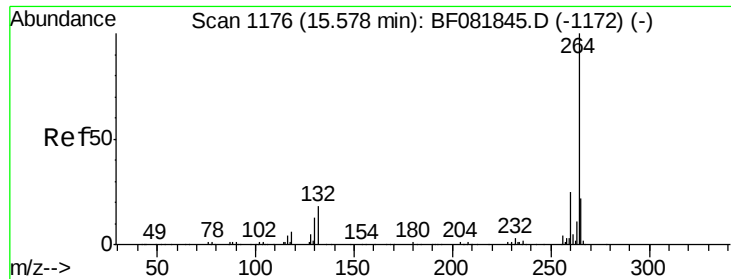
#85
Indeno(1,2,3-cd)pyrene
Concen: 68.40 ng
RT: 16.92 min Scan# 1293
Delta R.T. 0.01 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Tgt Ion:276 Resp: 538326
Ion Ratio Lower Upper
276 100
138 20.5 25.7 38.5#
277 23.0 15.6 23.4



Abundance Ion 276.00 (275.70 to 276.70): E
300000
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





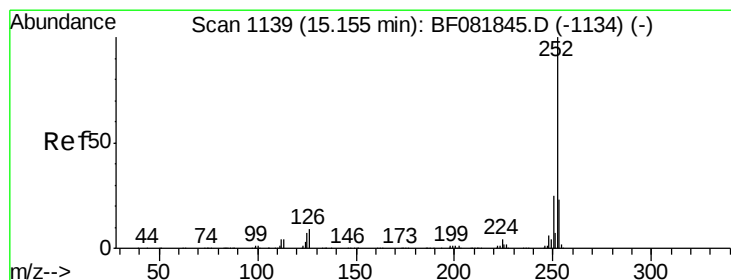
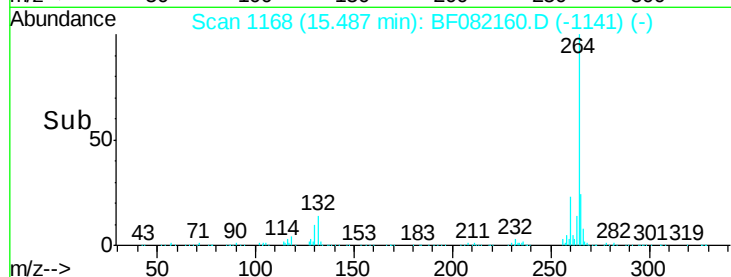
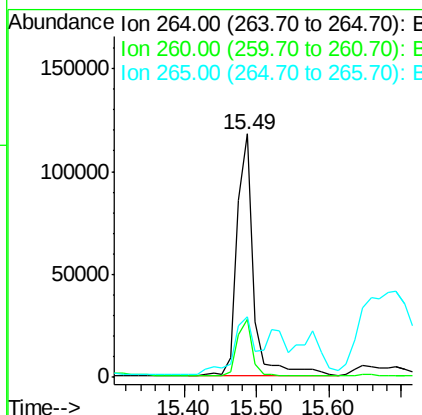
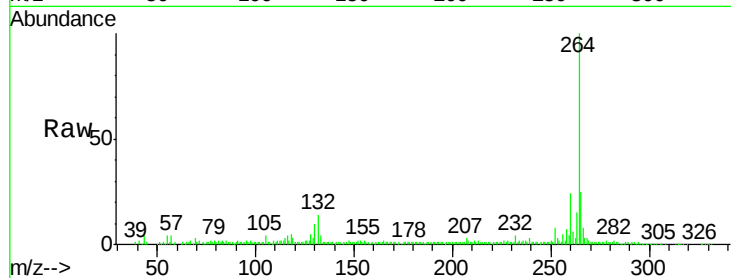
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.49 min Scan# 1168
Delta R.T. 0.01 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Instrument :
BNA_F
ClientSampleId :
MGP222BR-12-14

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	16.7	25.1
265	24.7	17.2	25.8

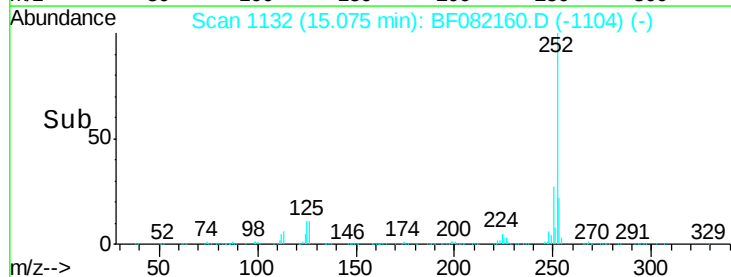
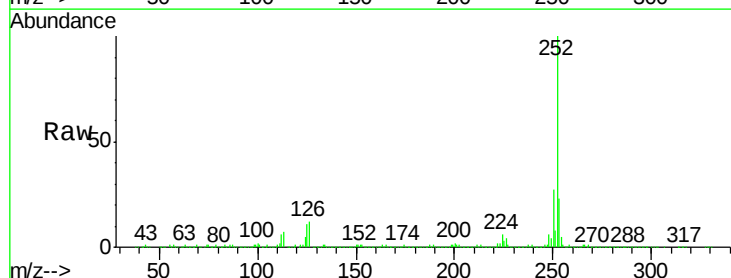
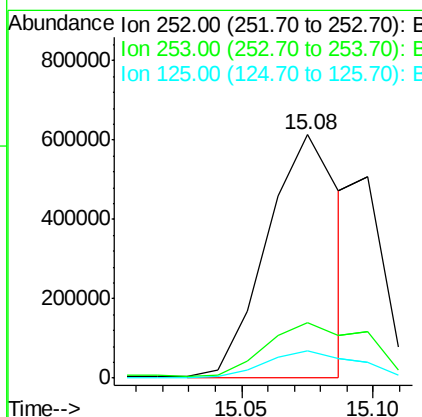
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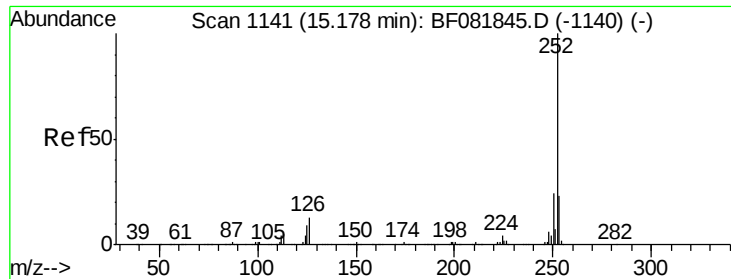
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#87
Benzo(b)fluoranthene
Concen: 111.55 ng m
RT: 15.08 min Scan# 1132
Delta R.T. 0.02 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	11.0	17.1	25.7#





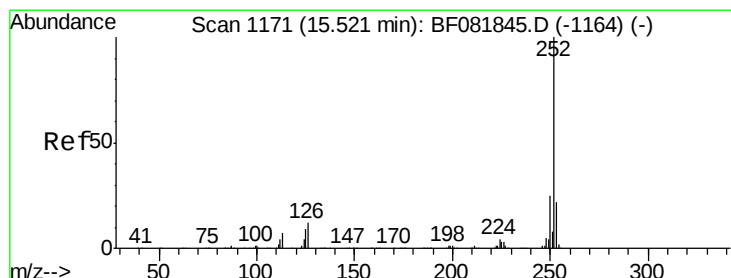
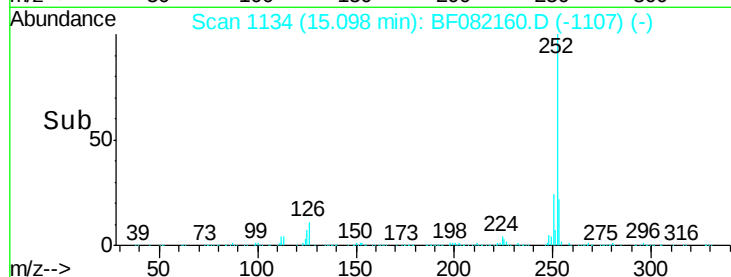
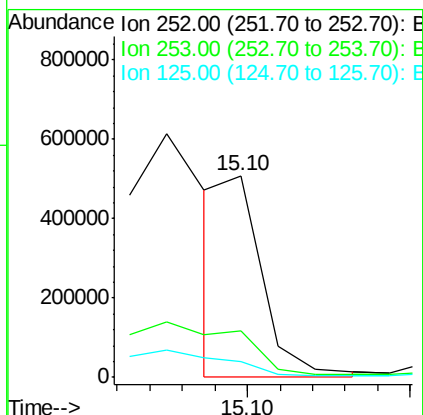
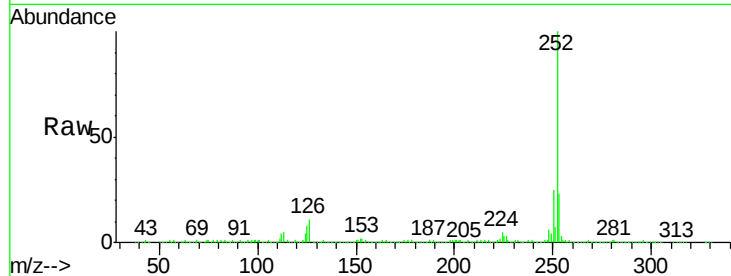
#88
Benzo(k)fluoranthene
Concen: 43.55 ng m
RT: 15.10 min Scan# 1134
Delta R.T. 0.01 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Instrument :
BNA_F
ClientSampleId :
MGP222BR-12-14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.4
125	7.9	16.0	24.0

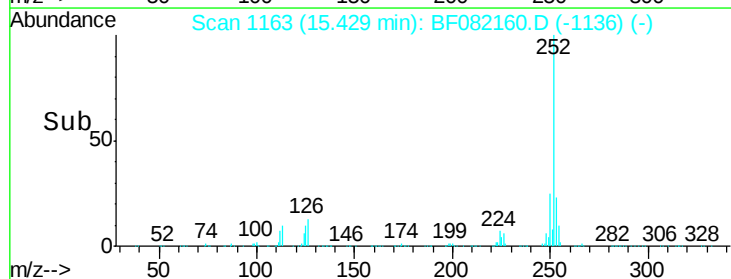
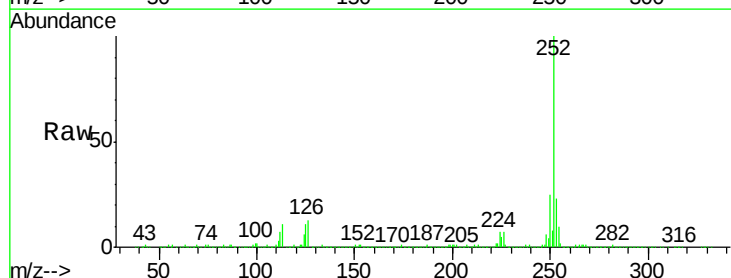
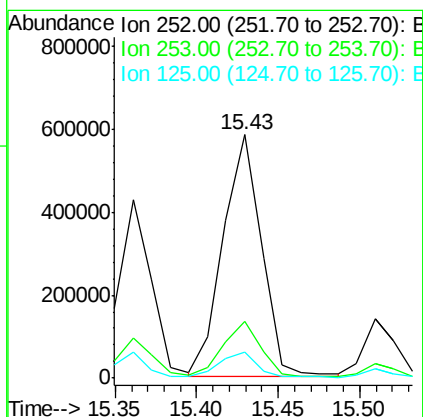
Manual Integrations
APPROVED

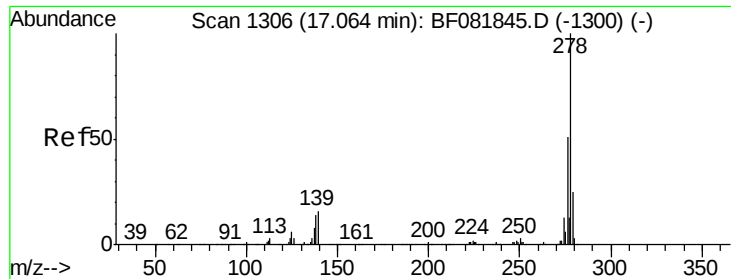
MMDadoda
10/12/2015 2:46:17 PM



#89
Benzo(a)pyrene
Concen: 103.15 ng
RT: 15.43 min Scan# 1163
Delta R.T. 0.01 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.2	25.8
125	10.7	18.0	27.0





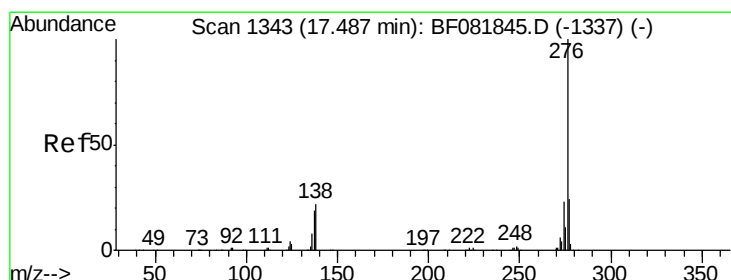
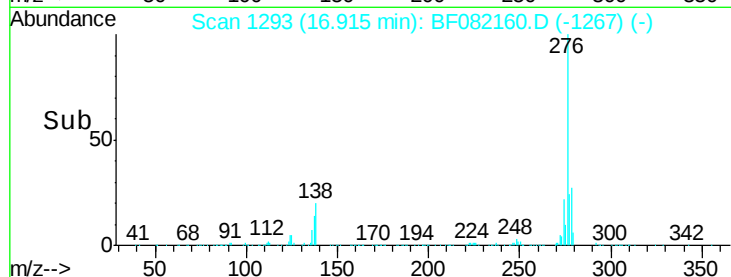
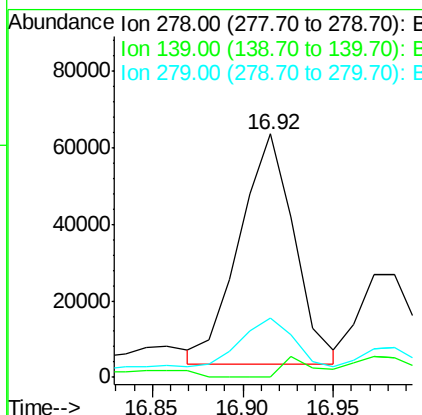
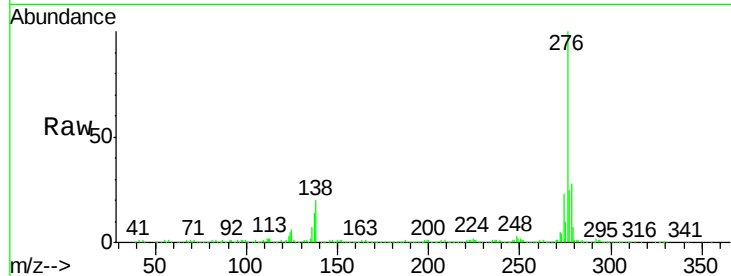
#90
Dibenzo(a,h)anthracene
Concen: 16.34 ng m
RT: 16.92 min Scan# 1293
Delta R.T. -0.00 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Instrument :
BNA_F
ClientSampleId :
MGP222BR-12-14

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	26.3	39.5#
279	24.5	18.2	27.4

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 62.78 ng
RT: 17.35 min Scan# 1331
Delta R.T. 0.02 min
Lab File: BF082160.D
Acq: 9 Oct 2015 22:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	17.8	26.6
138	21.0	34.6	51.8#

