

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092415\
 Data File : BF081780.D
 Acq On : 24 Sep 2015 23:31
 Operator : UM/IZ
 Sample : G3748-04DL 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12DL

Manual Integrations
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 9/25/2015 3:37:32 PM

Quant Time: Sep 25 09:04:19 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 25 06:04:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.95	152	205329m	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	799772	20.00	ng	0.00
38) Acenaphthene-d10	9.99	164	385802	20.00	ng	-0.01
63) Phenanthrene-d10	11.49	188	700922	20.00	ng	0.01
75) Chrysene-d12	14.12	240	416976	20.00	ng	0.00
86) Perylene-d12	15.59	264	477634	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	185268	15.26	ng	-0.01
7) Phenol-d6	6.56	99	245932	16.02	ng	-0.01
23) Nitrobenzene-d5	7.51	82	134683	11.11	ng	-0.01
41) 2,4,6-Tribromophenol	10.78	330	49641	14.82	ng	-0.01
44) 2-Fluorobiphenyl	9.31	172	306442	13.04	ng	0.00
78) Terphenyl-d14	13.06	244	254635	13.95	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	4022887	109.03	ng	# 90
37) 2-Methylnaphthalene	8.96	142	1806051	68.69	ng	# 86
45) 1,1'-Biphenyl	9.42	154	524553	17.39	ng	95
48) Acenaphthylene	9.85	152	413367	10.07	ng	# 88
51) Acenaphthene	10.02	154	657566	27.78	ng	# 87
54) Dibenzofuran	10.19	168	202173	5.82	ng	# 78
57) Fluorene	10.55	166	1174932	44.10	ng	89
70) Phenanthrene	11.52	178	3468557m	86.56	ng	
71) Anthracene	11.57	178	1228970	31.83	ng	97
72) Carbazole	11.70	167	75413	2.10	ng	# 90
74) Fluoranthene	12.71	202	1615452	40.01	ng	91
77) Pyrene	12.94	202	2221299m	70.66	ng	
80) Benzo(a)anthracene	14.10	228	818945	32.39	ng	# 89
82) Chrysene	14.15	228	680414	28.06	ng	# 91
85) Indeno(1,2,3-cd)pyrene	17.05	276	329303	14.83	ng	# 85
87) Benzo(b)fluoranthene	15.16	252	512984m	18.11	ng	
88) Benzo(k)fluoranthene	15.17	252	254430m	9.33	ng	
89) Benzo(a)pyrene	15.52	252	640965	25.06	ng	# 88
90) Dibenzo(a,h)anthracene	17.05	278	93081	3.49	ng	# 62
91) Benzo(g,h,i)perylene	17.50	276	370797	13.50	ng	# 77

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

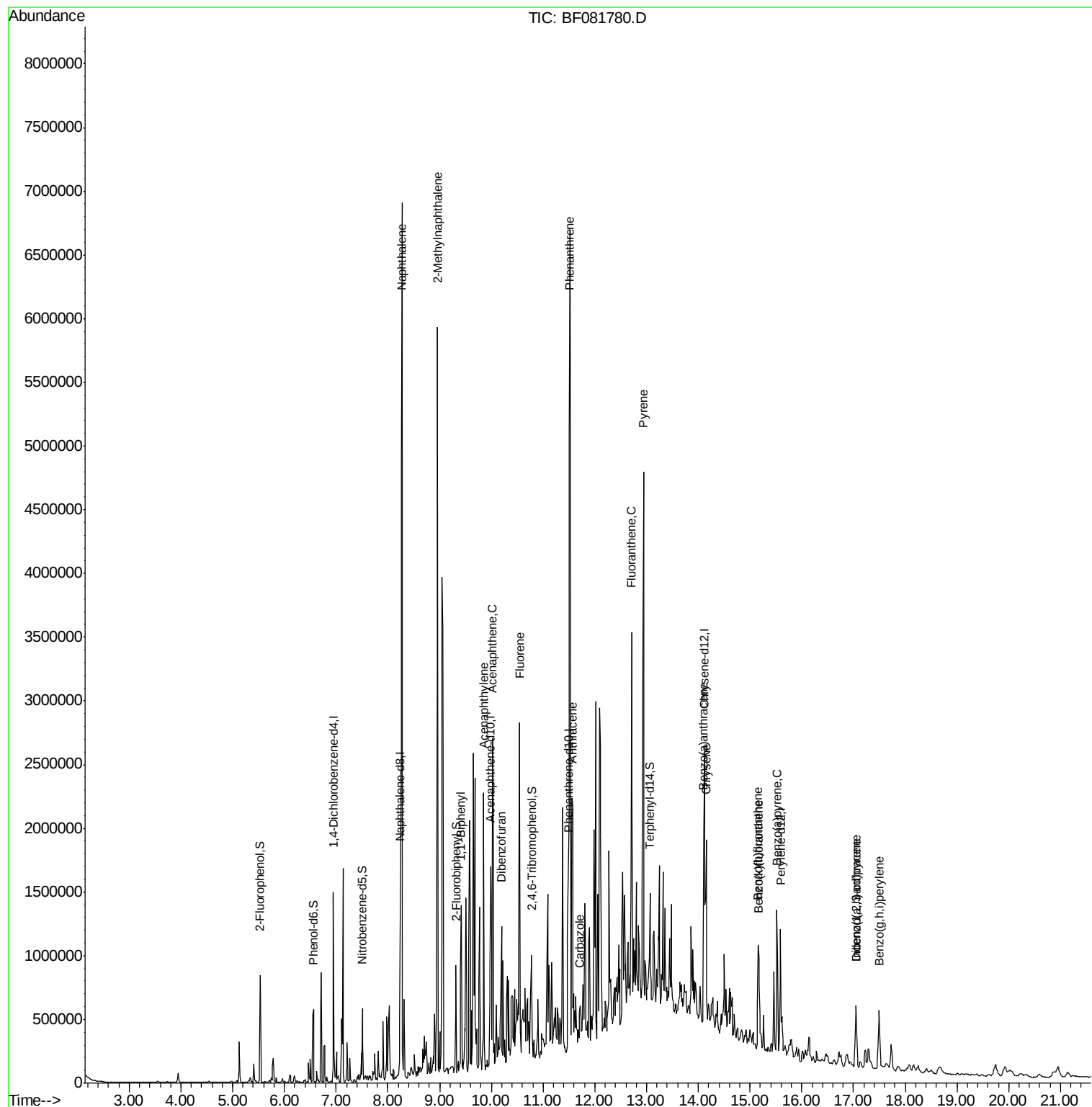
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092415\
Data File : BF081780.D
Acq On : 24 Sep 2015 23:31
Operator : UM/IZ
Sample : G3748-04DL 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

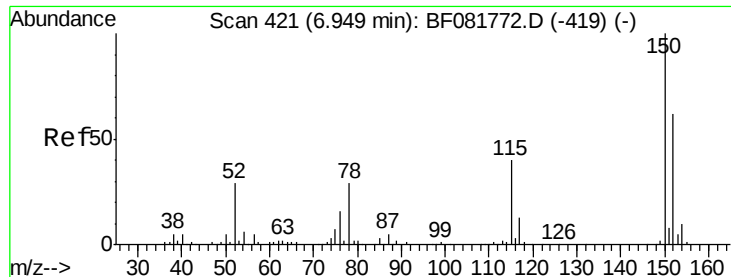
Instrument :
BNA_F
ClientSampleId :
MGP205-10-12DL

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Quant Time: Sep 25 09:04:19 2015
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

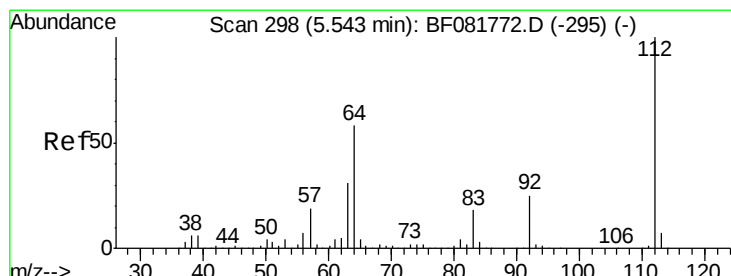
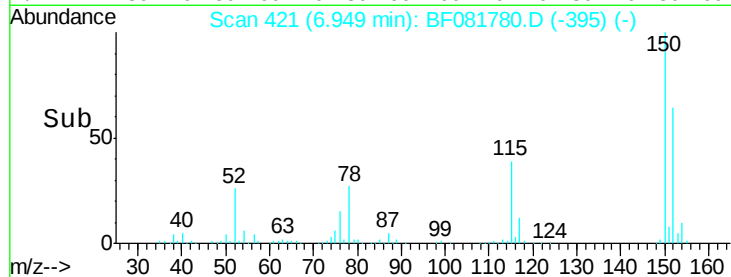
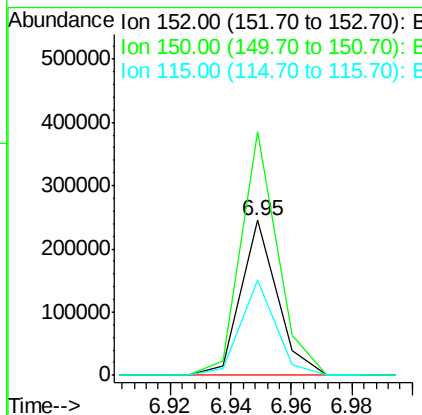
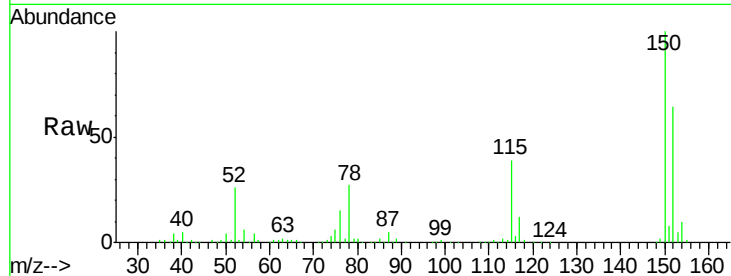
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.95 min Scan# 421
Delta R.T. -0.00 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Instrument :
BNA_F
ClientSampleId :
MGP205-10-12DL

Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.7	187.1
115	61.1	39.0	58.4#

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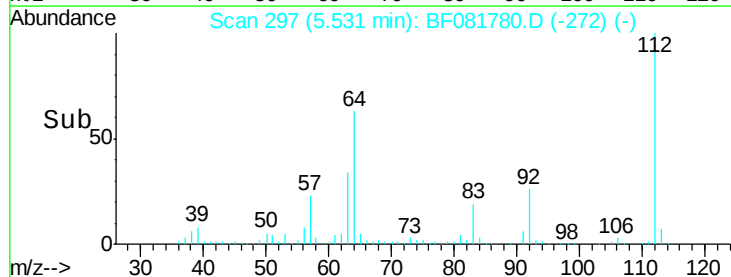
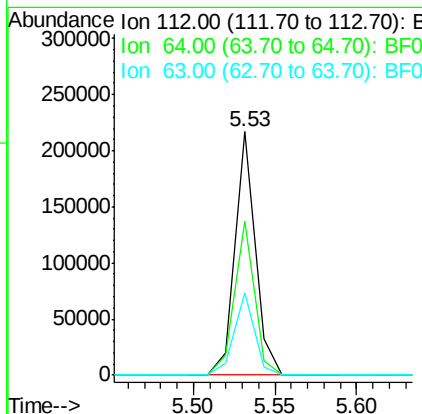
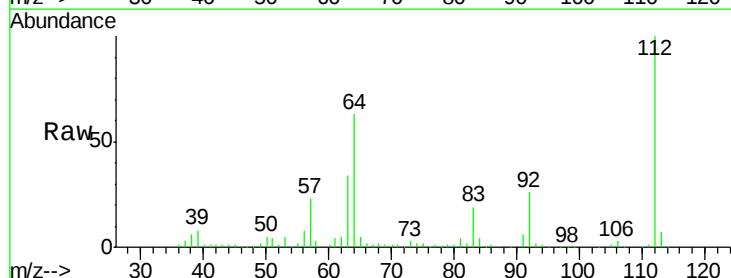
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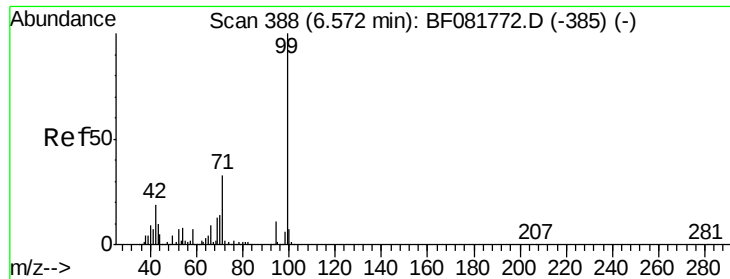


#5

2-Fluorophenol
Concen: 15.26 ng
RT: 5.53 min Scan# 297
Delta R.T. -0.01 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	39.7	59.5#
63	33.7	17.4	26.0#





#7

Phenol-d6

Concen: 16.02 ng

RT: 6.56 min Scan# 387

Delta R.T. -0.01 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Instrument :

BNA_F

ClientSampleId :

MGP205-10-12DL

Tgt Ion: 99 Resp: 245932

Ion Ratio Lower Upper

99 100

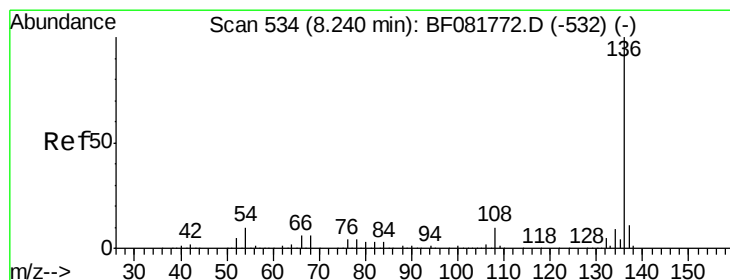
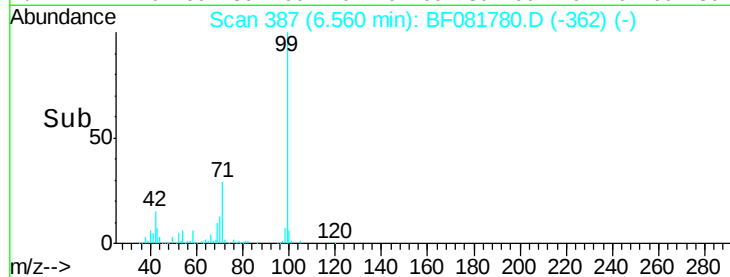
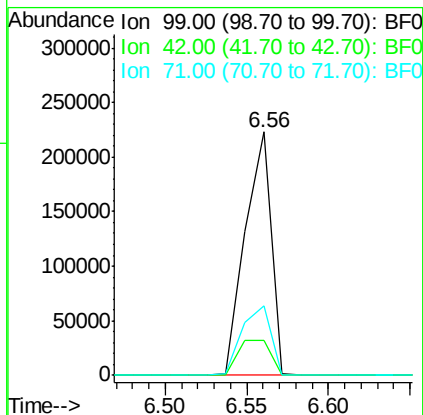
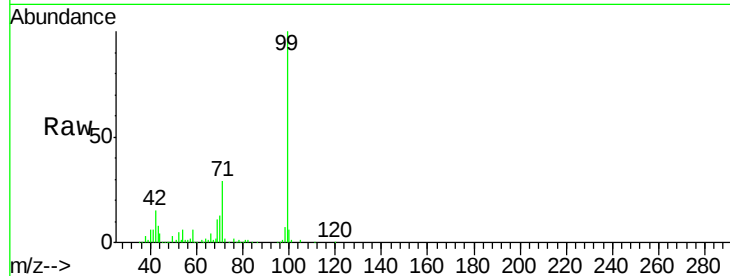
42 14.5 13.7 20.5

71 28.8 14.2 21.2#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.24 min Scan# 534

Delta R.T. -0.00 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Tgt Ion: 136 Resp: 799772

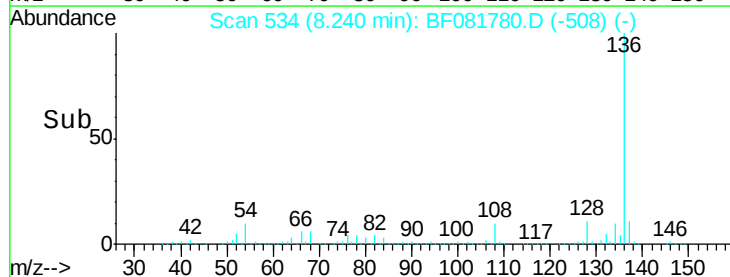
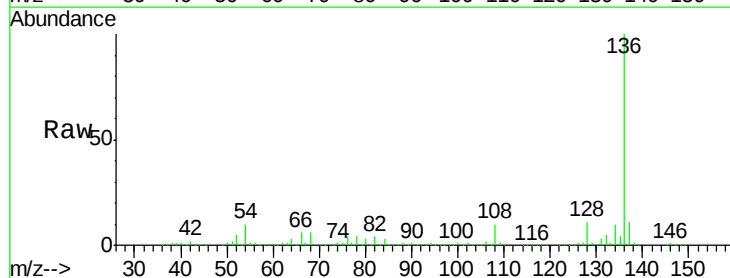
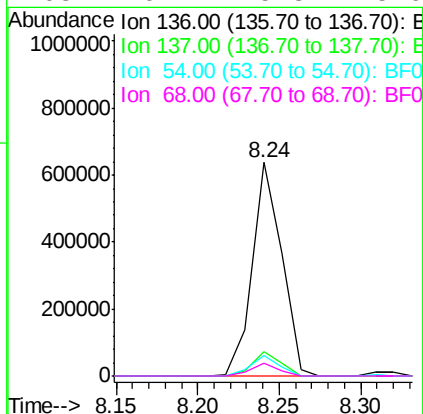
Ion Ratio Lower Upper

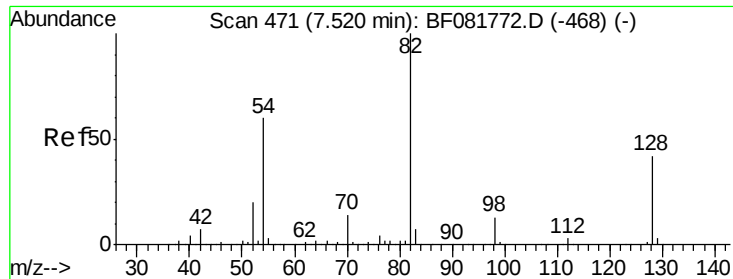
136 100

137 11.4 9.0 13.6

54 9.9 8.2 12.2

68 6.2 5.8 8.6





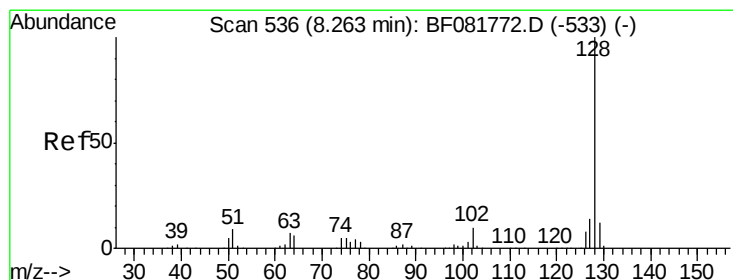
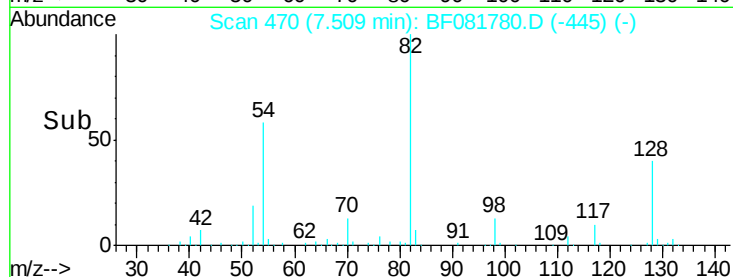
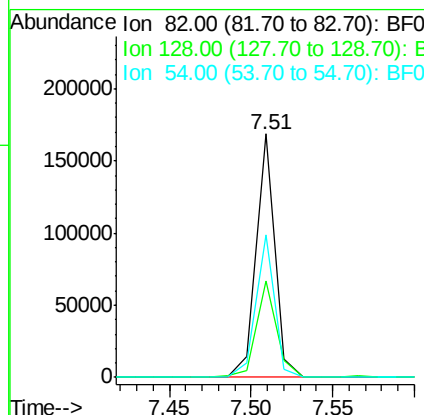
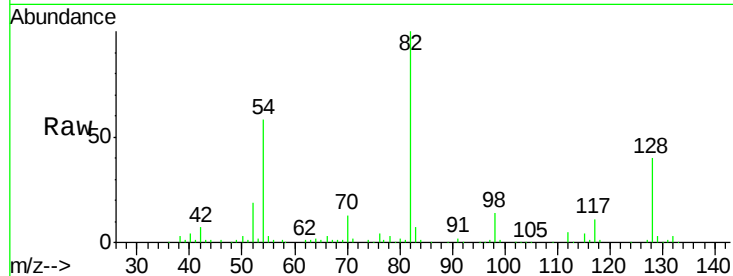
#23
Nitrobenzene-d5
Concen: 11.11 ng
RT: 7.51 min Scan# 470
Delta R.T. -0.01 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Instrument :
BNA_F
ClientSampleId :
MGP205-10-12DL

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	39.7	51.0	76.6#	
54	58.5	47.5	71.3	

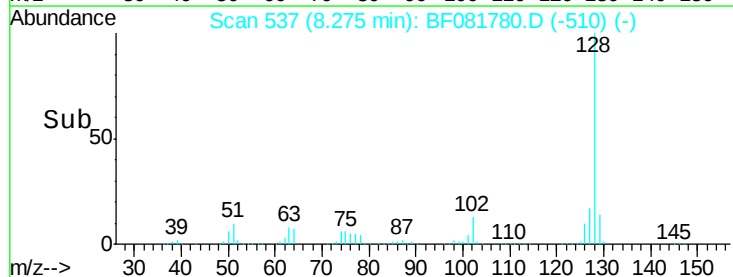
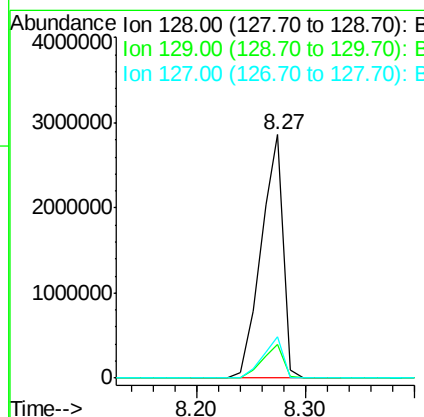
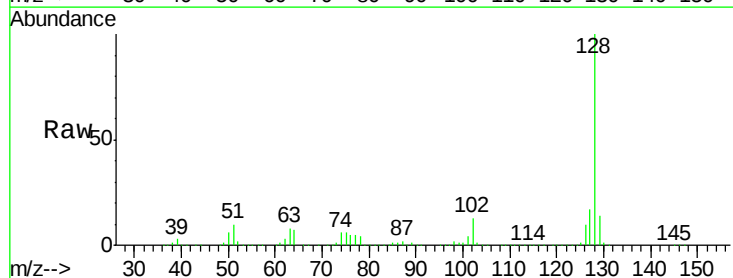
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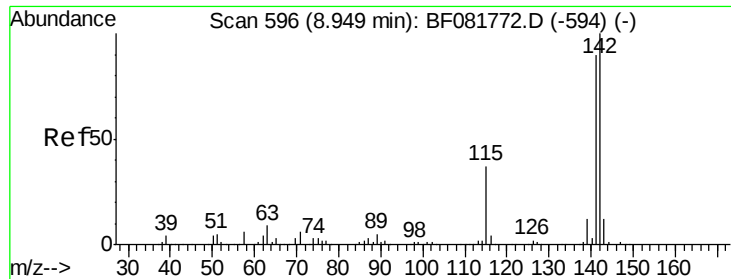
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#31
Naphthalene
Concen: 109.03 ng
RT: 8.27 min Scan# 537
Delta R.T. 0.01 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	13.7	8.4	12.6#	
127	17.0	9.9	14.9#	





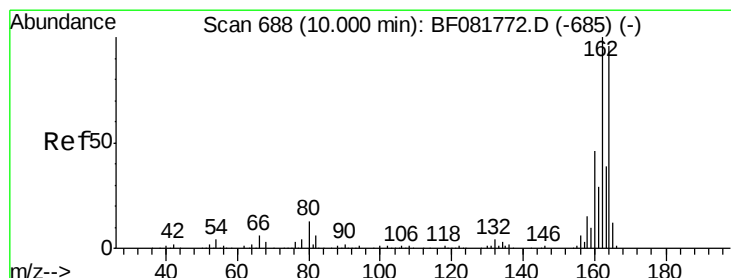
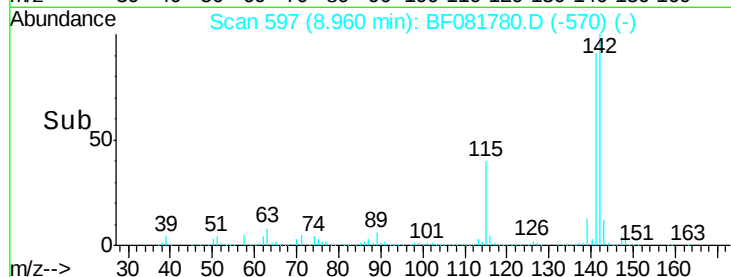
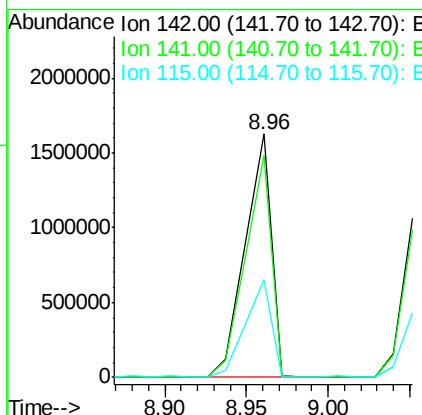
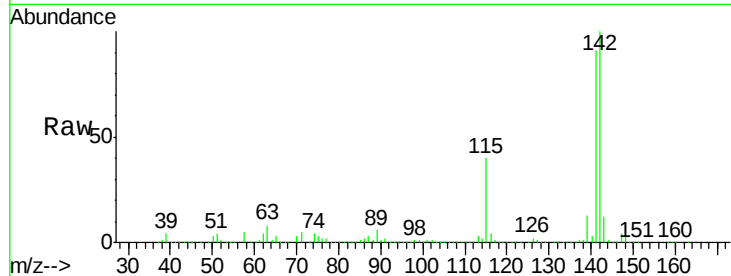
#37
 2-Methylnaphthalene
 Concen: 68.69 ng
 RT: 8.96 min Scan# 597
 Delta R.T. 0.01 min
 Lab File: BF081780.D
 Acq: 24 Sep 2015 23:31

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.1	67.5	101.3
115	40.3	18.2	27.2

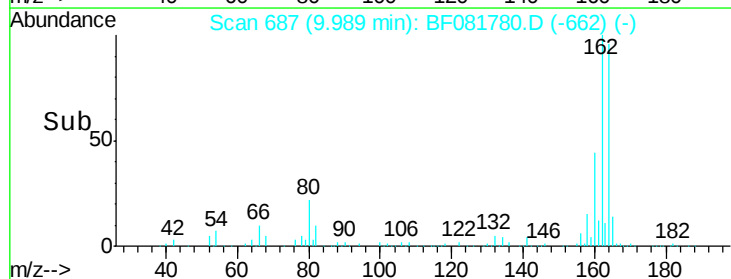
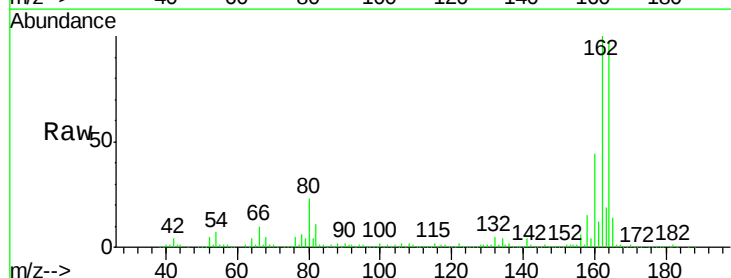
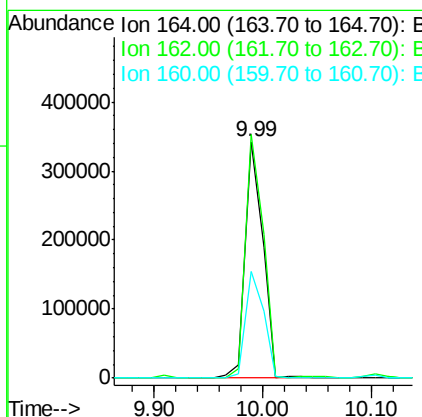
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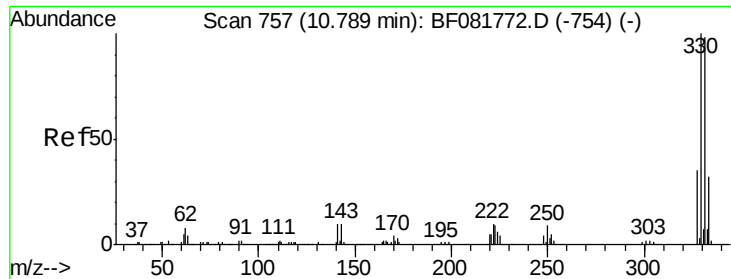
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.99 min Scan# 687
 Delta R.T. -0.01 min
 Lab File: BF081780.D
 Acq: 24 Sep 2015 23:31

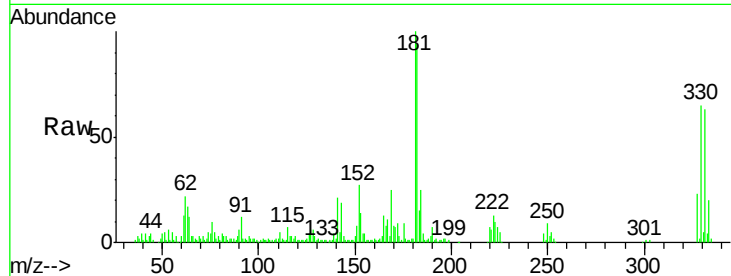
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	75.2	112.8
160	45.1	31.5	47.3





#41
 2,4,6-Tribromophenol
 Concen: 14.82 ng
 RT: 10.78 min Scan# 756
 Delta R.T. -0.01 min
 Lab File: BF081780.D
 Acq: 24 Sep 2015 23:31

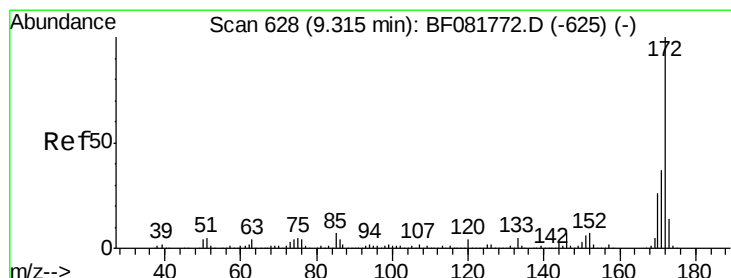
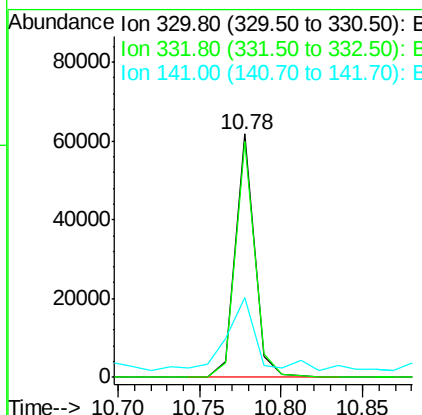
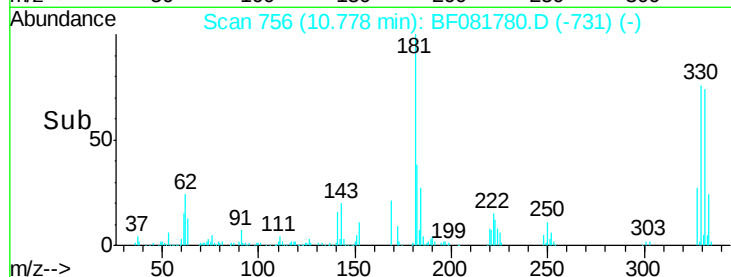
Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12DL



Tgt Ion	Ratio	Resp	Lower	Upper
330	100	49641		
332	97.5	76.6	114.8	
141	42.3	29.7	44.5	

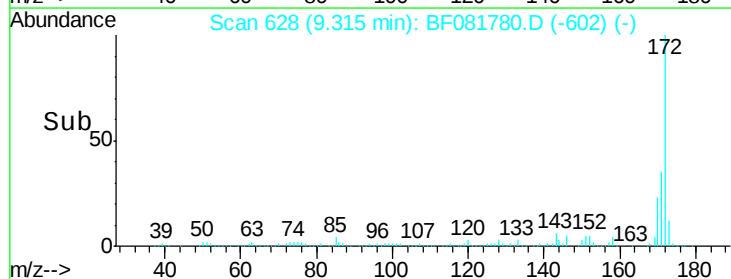
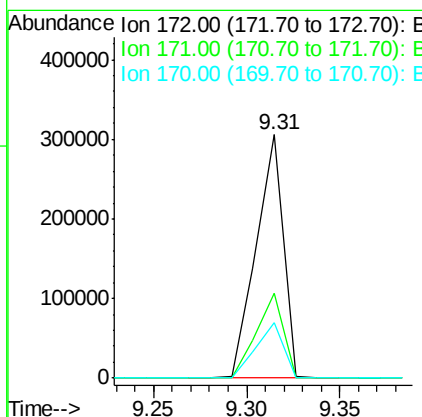
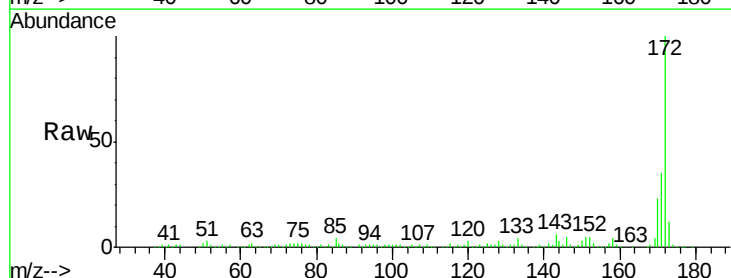
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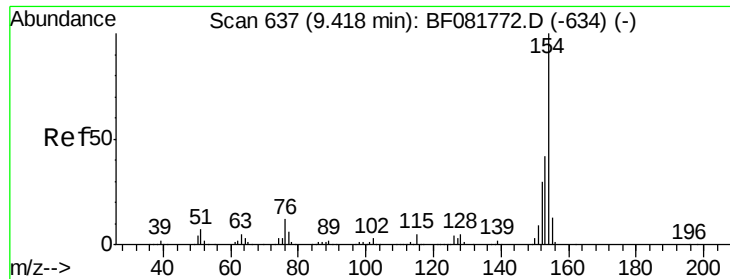
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#44
 2-Fluorobiphenyl
 Concen: 13.04 ng
 RT: 9.31 min Scan# 628
 Delta R.T. -0.00 min
 Lab File: BF081780.D
 Acq: 24 Sep 2015 23:31

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	306442		
171	34.8	26.1	39.1	
170	22.8	17.4	26.2	





#45

1,1'-Biphenyl

Concen: 17.39 ng

RT: 9.42 min Scan# 637

Delta R.T. -0.00 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Instrument :

BNA_F

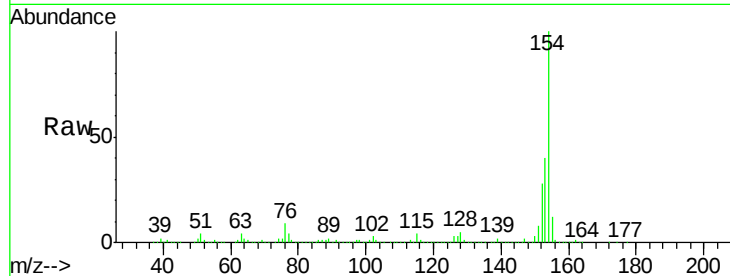
ClientSampleId :

MGP205-10-12DL

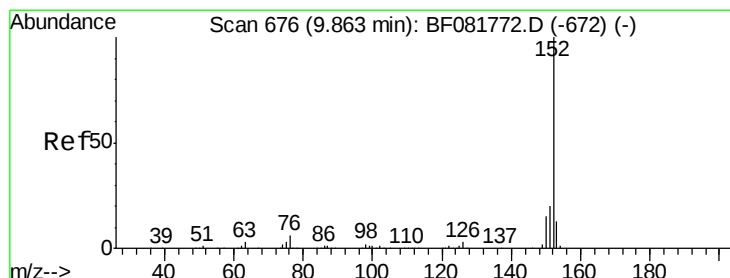
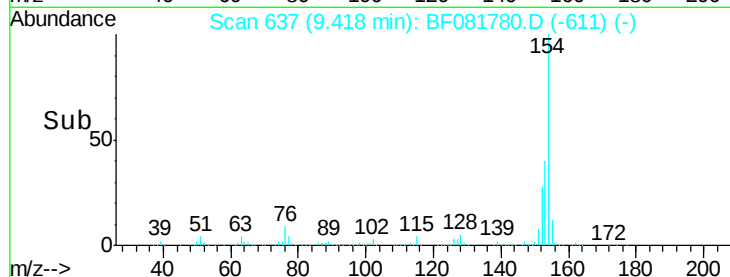
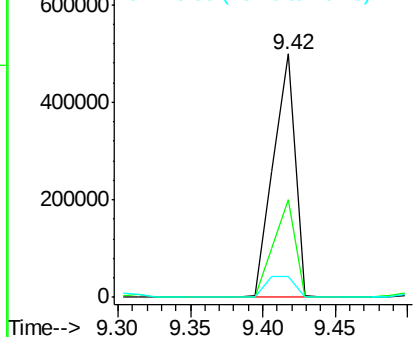
Tgt Ion:	154	Resp:	524553
Ion Ratio	Lower	Upper	
154	100		
153	40.0	17.1	57.1
76	8.7	0.0	31.6

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 10.07 ng

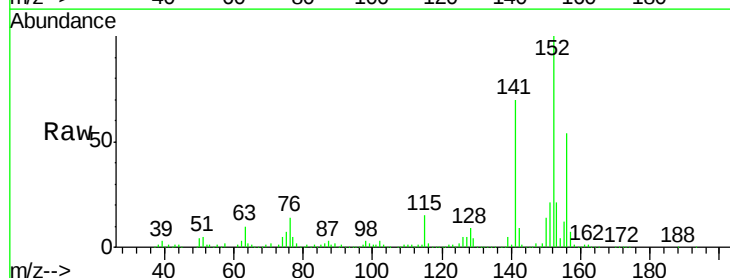
RT: 9.85 min Scan# 675

Delta R.T. -0.01 min

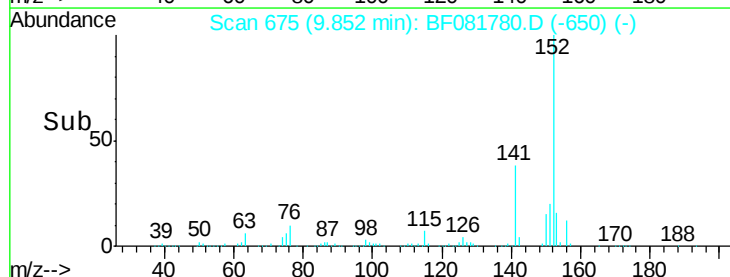
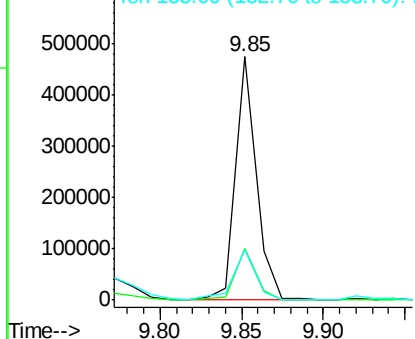
Lab File: BF081780.D

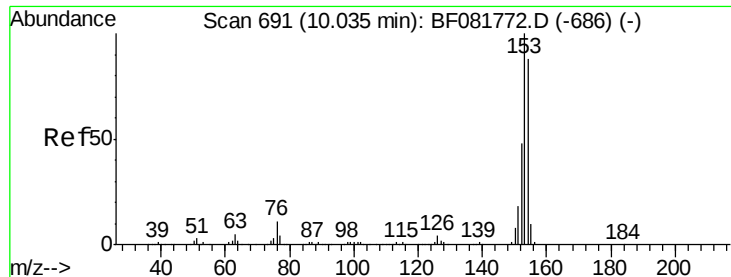
Acq: 24 Sep 2015 23:31

Tgt Ion:	152	Resp:	413367
Ion Ratio	Lower	Upper	
152	100		
151	21.1	14.6	22.0
153	20.6	10.3	15.5#



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





#51

Acenaphthene

Concen: 27.78 ng

RT: 10.02 min Scan# 690

Delta R.T. -0.01 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Instrument :

BNA_F

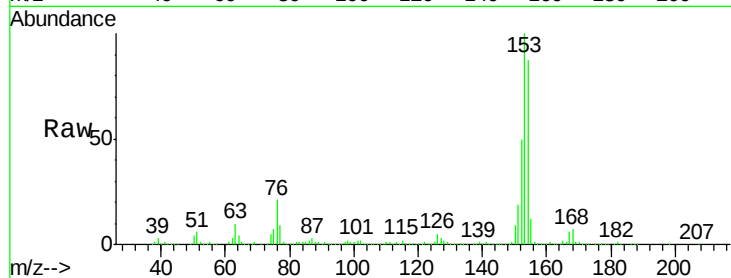
ClientSampleId :

MGP205-10-12DL

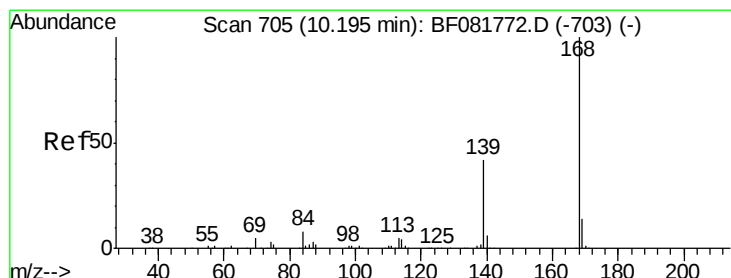
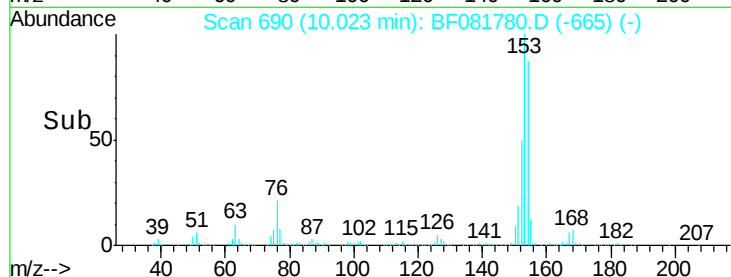
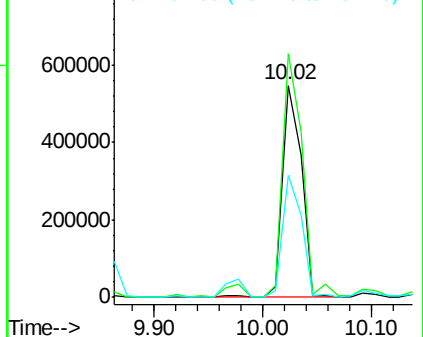
Tgt Ion:	154	Resp:	657566
Ion Ratio	Lower	Upper	
154	100		
153	114.8	82.1	123.1
152	57.3	37.9	56.9#

Manual Integrations
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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: 5.82 ng

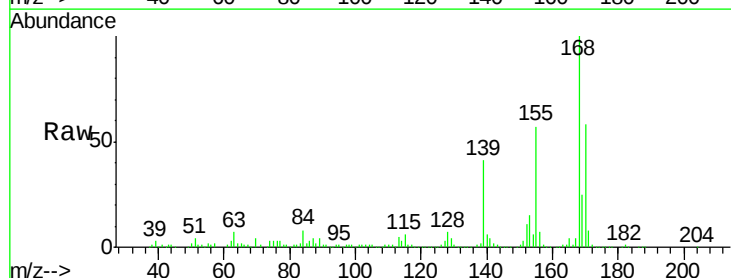
RT: 10.19 min Scan# 705

Delta R.T. -0.00 min

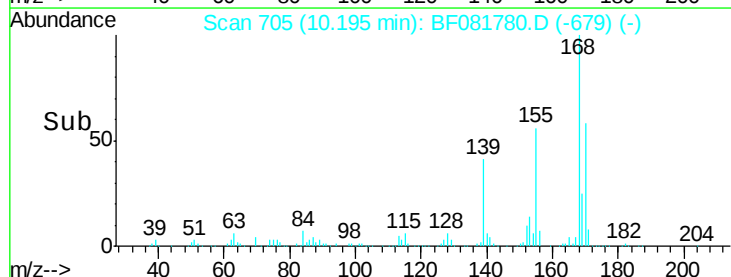
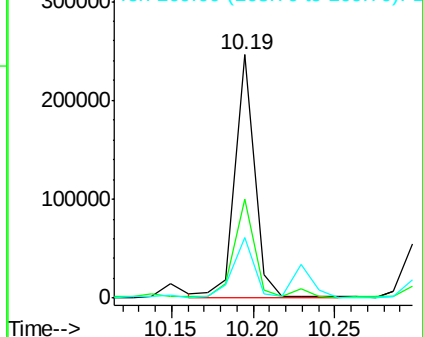
Lab File: BF081780.D

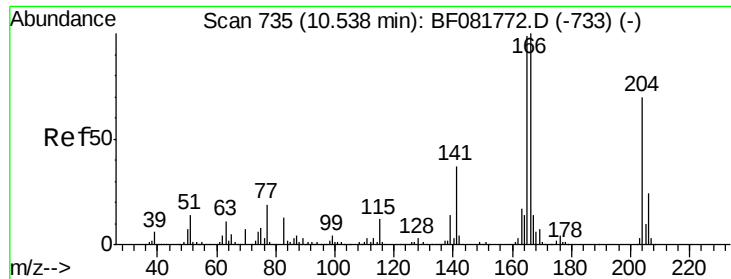
Acq: 24 Sep 2015 23:31

Tgt Ion:	168	Resp:	202173
Ion Ratio	Lower	Upper	
168	100		
139	40.9	24.2	36.2#
169	24.8	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





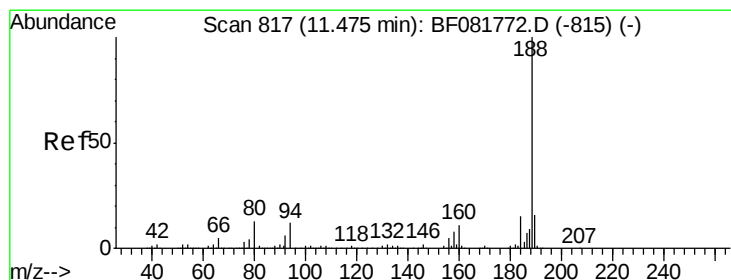
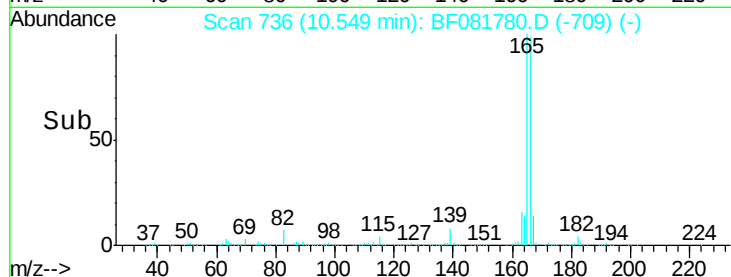
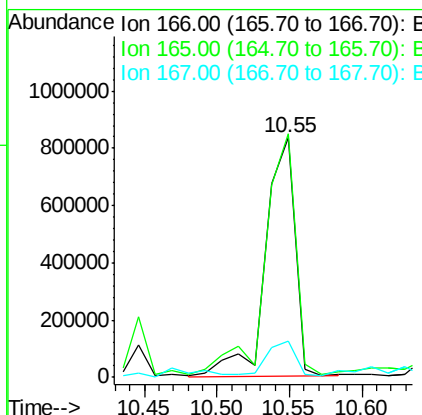
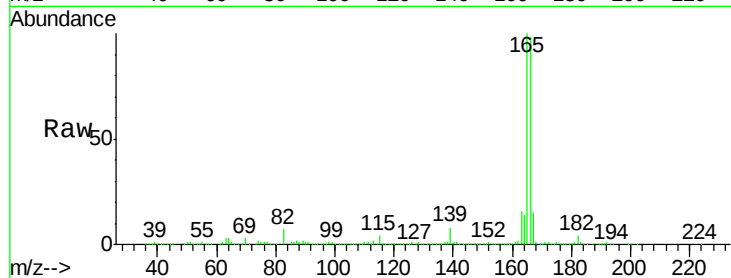
#57
Fluorene
 Concen: 44.10 ng
 RT: 10.55 min Scan# 736
 Delta R.T. 0.01 min
 Lab File: BF081780.D
 Acq: 24 Sep 2015 23:31

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12DL

Tgt Ion:166 Resp: 1174932
 Ion Ratio Lower Upper
 166 100
 165 101.8 72.6 109.0
 167 15.2 10.6 16.0

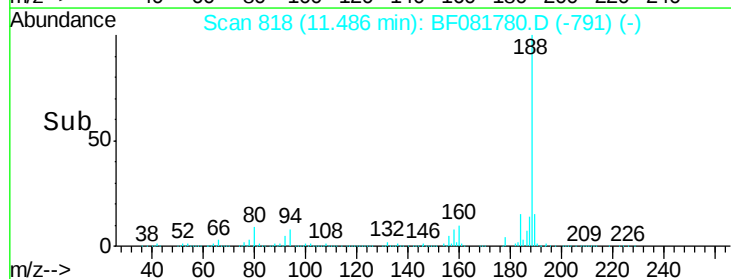
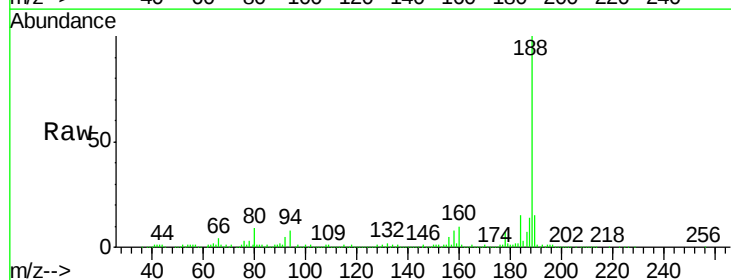
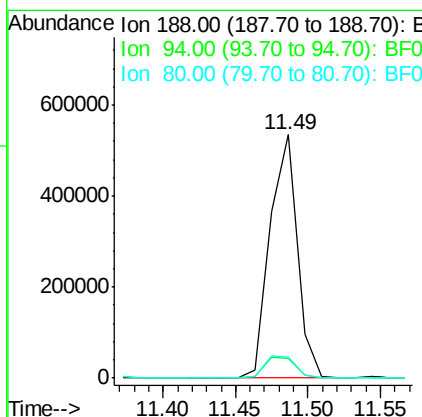
Manual Integrations
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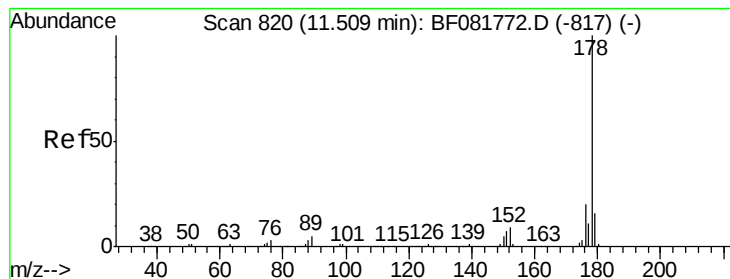
MMDadoda
 9/25/2015 3:37:32 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.49 min Scan# 818
 Delta R.T. 0.01 min
 Lab File: BF081780.D
 Acq: 24 Sep 2015 23:31

Tgt Ion:188 Resp: 700922
 Ion Ratio Lower Upper
 188 100
 94 8.2 11.1 16.7#
 80 8.7 11.0 16.4#





#70

Phenanthrene

Concen: 86.56 ng m

RT: 11.52 min Scan# 821

Delta R.T. 0.01 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Instrument :

BNA_F

ClientSampleId :

MGP205-10-12DL

Tgt Ion:178 Resp: 3468557

Ion Ratio Lower Upper

178 100

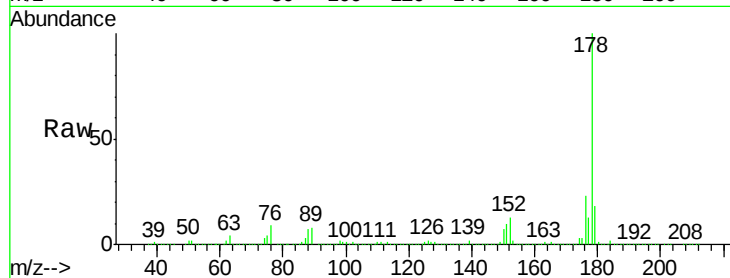
176 23.3 13.8 20.8#

179 17.6 12.2 18.2

Manual Integrations
APPROVED

MMDadoda

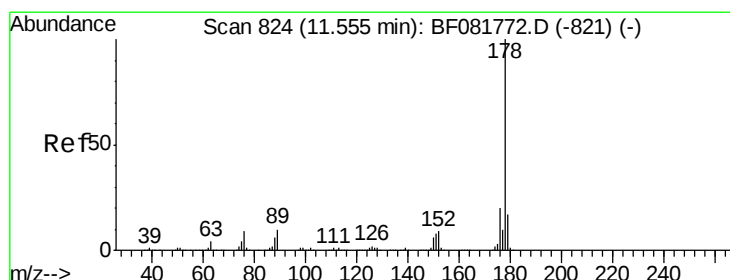
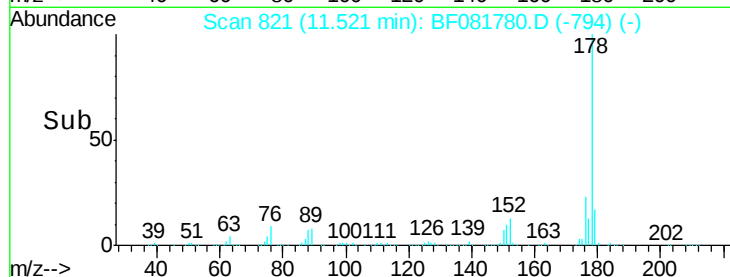
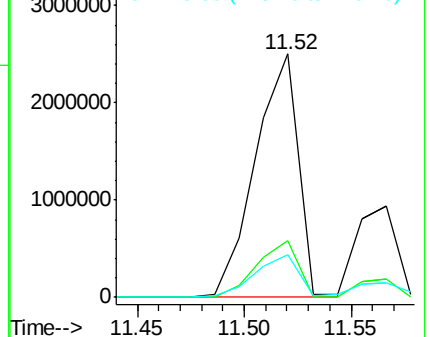
9/25/2015 3:37:32 PM



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: 31.83 ng

RT: 11.57 min Scan# 825

Delta R.T. 0.01 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Tgt Ion:178 Resp: 1228970

Ion Ratio Lower Upper

178 100

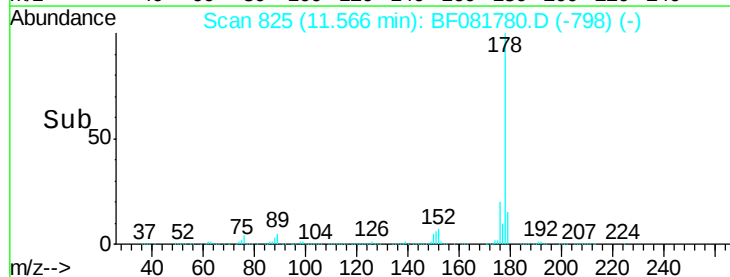
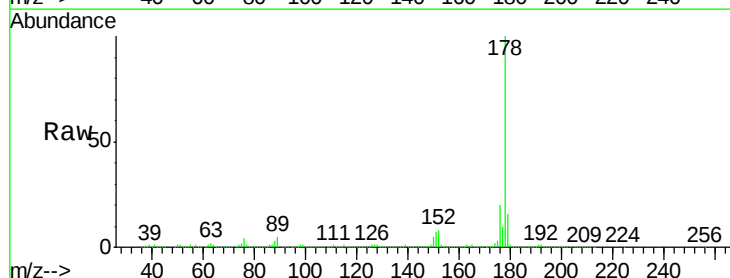
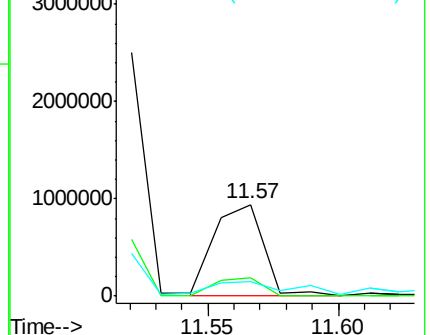
176 19.7 14.1 21.1

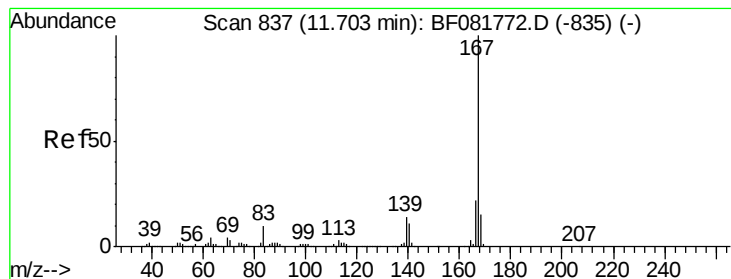
179 15.9 12.2 18.2

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





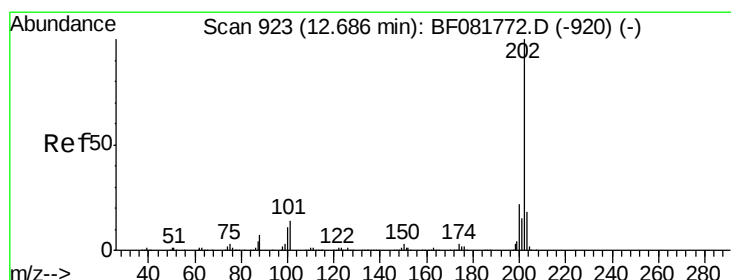
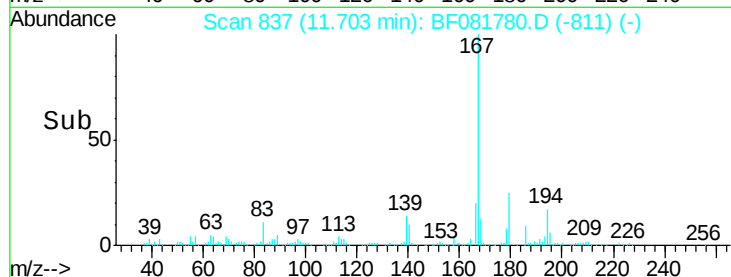
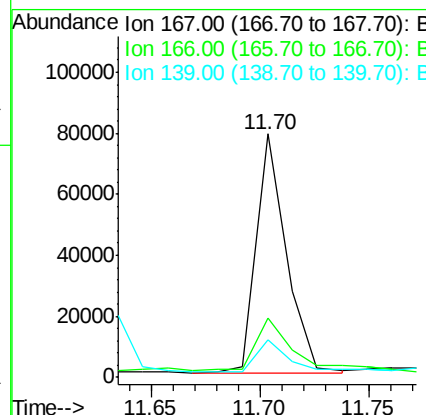
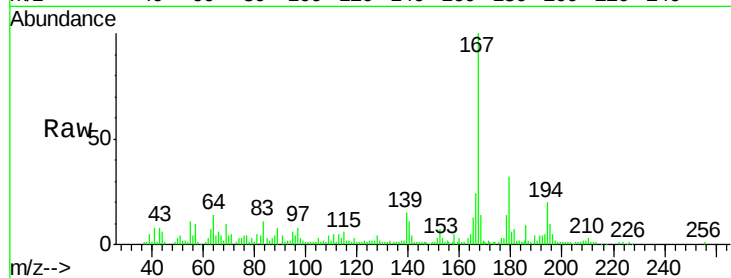
#72
 Carbazole
 Concen: 2.10 ng
 RT: 11.70 min Scan# 837
 Delta R.T. -0.00 min
 Lab File: BF081780.D
 Acq: 24 Sep 2015 23:31

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12DL

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.3	15.7	23.5#
139	15.5	9.5	14.3#

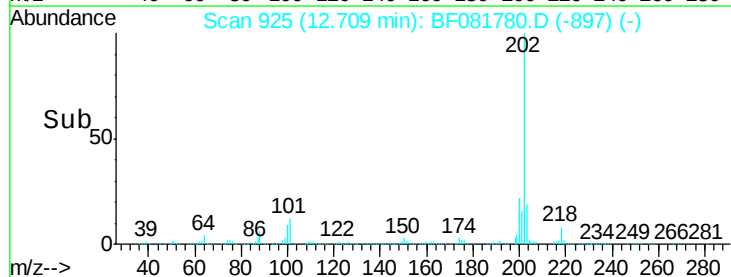
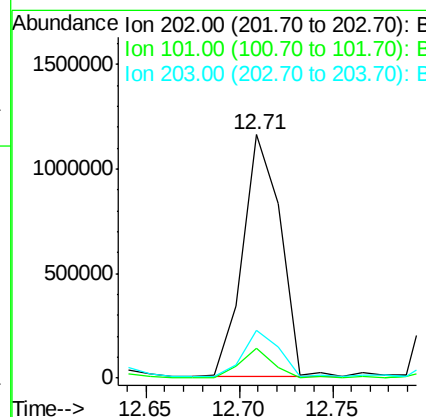
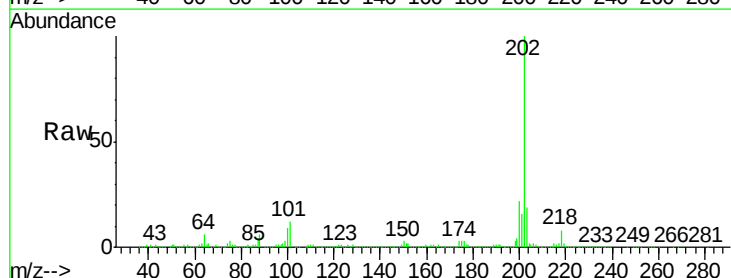
Manual Integrations
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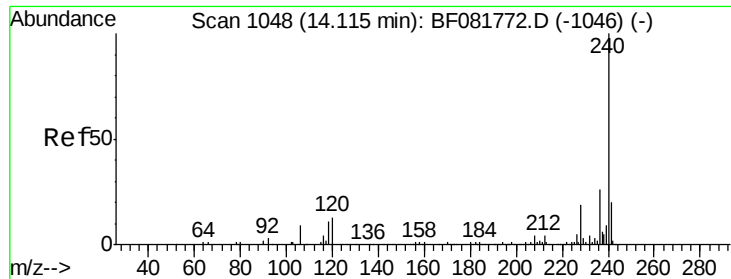
MMDadoda
 9/25/2015 3:37:32 PM



#74
 Fluoranthene
 Concen: 40.01 ng
 RT: 12.71 min Scan# 925
 Delta R.T. 0.02 min
 Lab File: BF081780.D
 Acq: 24 Sep 2015 23:31

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	38.3
203	19.4	0.0	37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.12 min Scan# 1048

Delta R.T. -0.00 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Instrument :

BNA_F

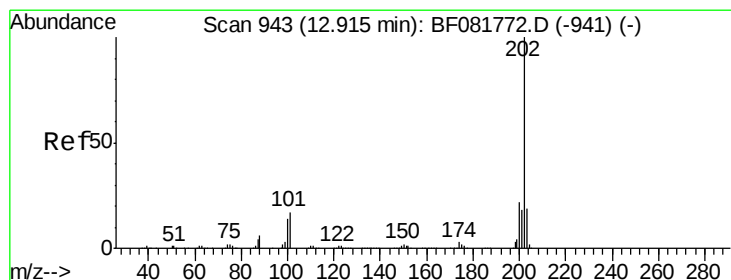
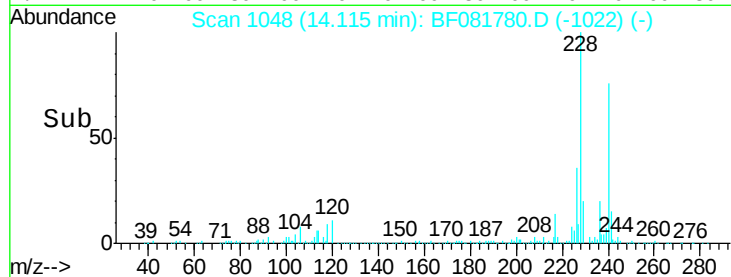
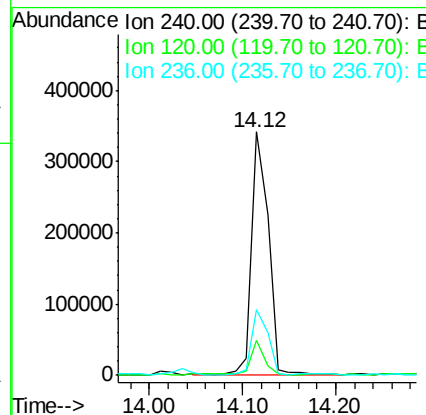
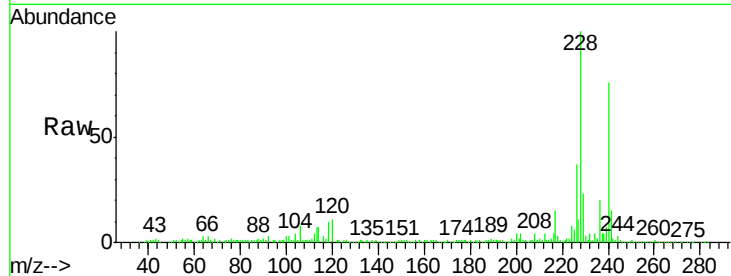
ClientSampleId :

MGP205-10-12DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	416976		
120	14.4	16.2	24.2#	
236	26.8	18.4	27.6	

Manual Integrations
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#77

Pyrene

Concen: 70.66 ng m

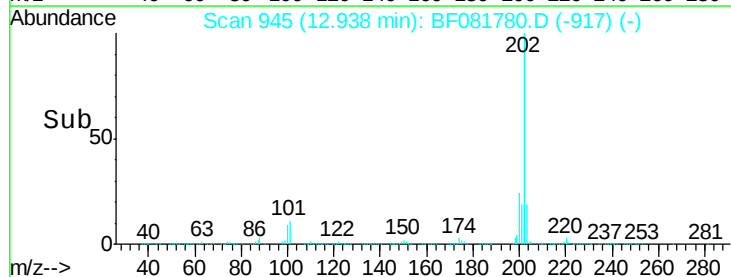
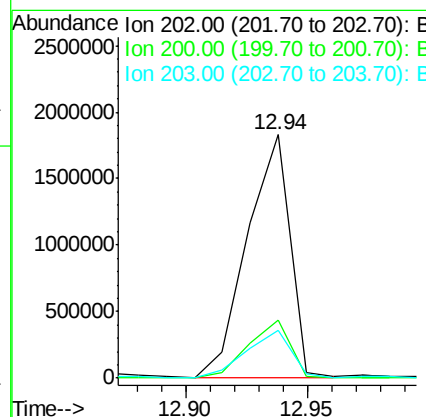
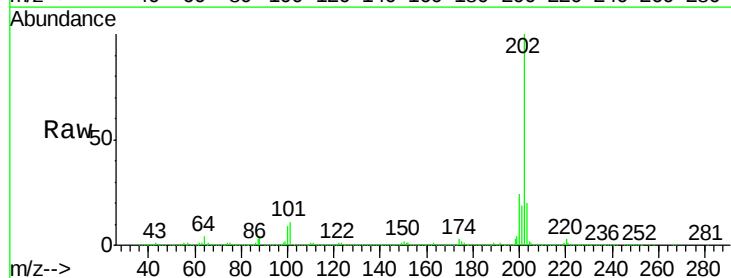
RT: 12.94 min Scan# 945

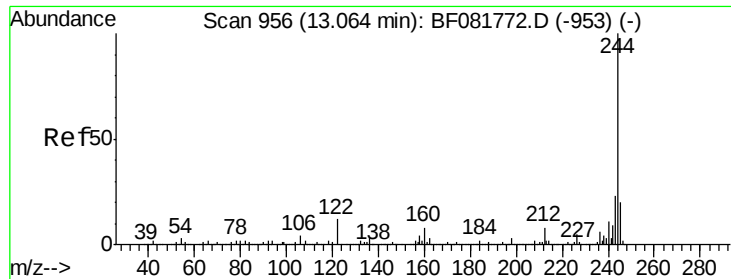
Delta R.T. 0.02 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2221299		
200	23.7	15.0	22.4#	
203	19.9	14.1	21.1	





#78

Terphenyl-d14

Concen: 13.95 ng

RT: 13.06 min Scan# 956

Delta R.T. -0.00 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Instrument :

BNA_F

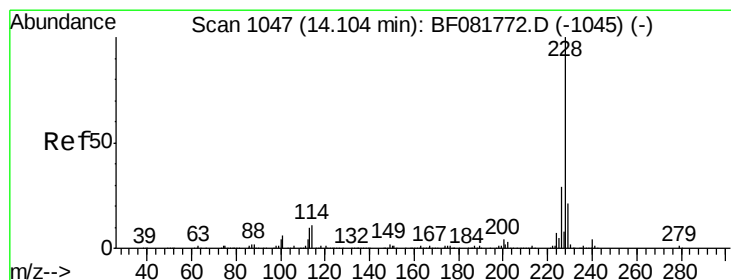
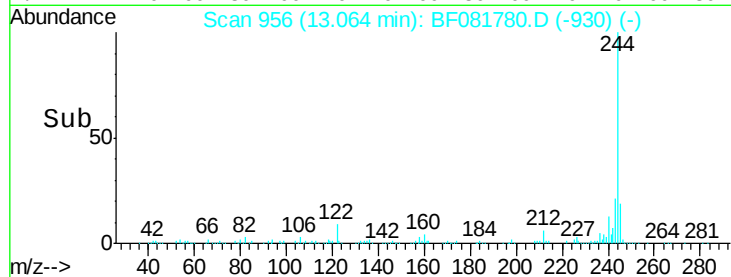
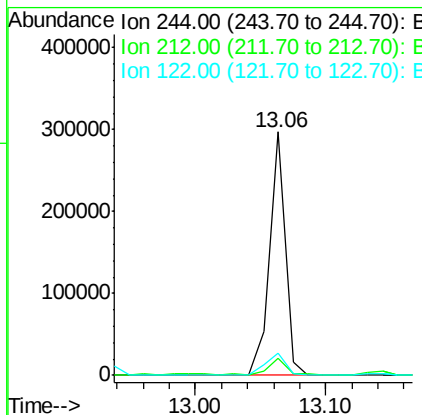
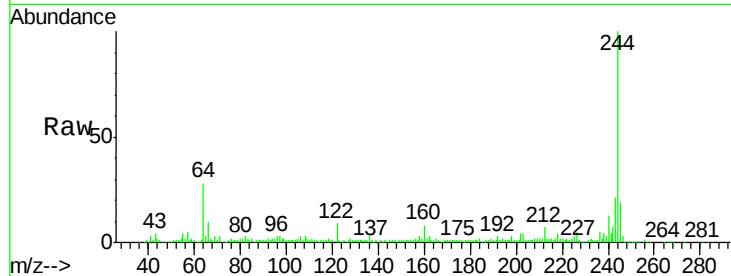
ClientSampleId :

MGP205-10-12DL

Tgt Ion:	244	Resp:	254635
Ion Ratio		Lower	Upper
244	100		
212	7.2	4.3	6.5#
122	9.2	17.4	26.2#

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#80

Benzo(a)anthracene

Concen: 32.39 ng

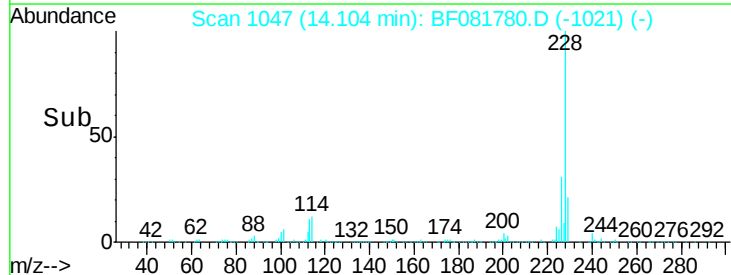
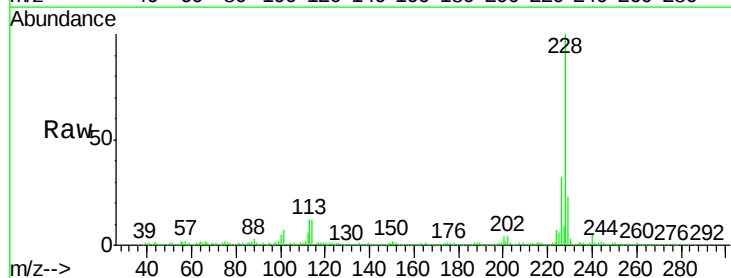
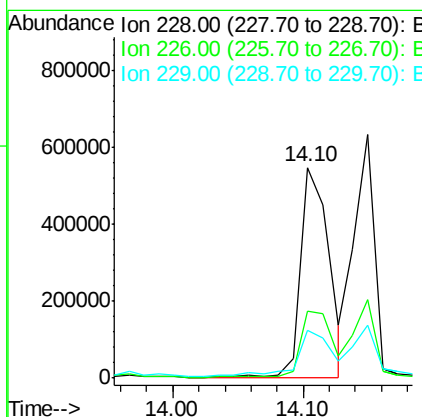
RT: 14.10 min Scan# 1047

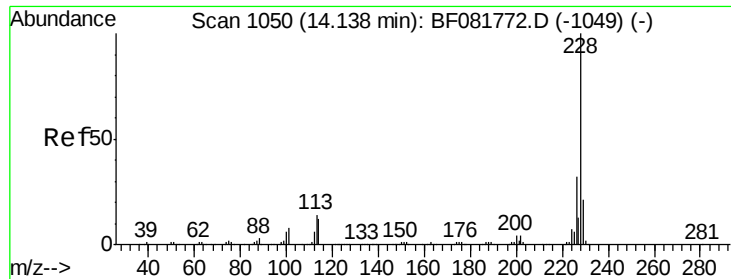
Delta R.T. -0.00 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Tgt Ion:	228	Resp:	818945
Ion Ratio		Lower	Upper
228	100		
226	31.6	20.0	30.0#
229	22.6	15.4	23.2





#82

Chrysene

Concen: 28.06 ng

RT: 14.15 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Instrument :

BNA_F

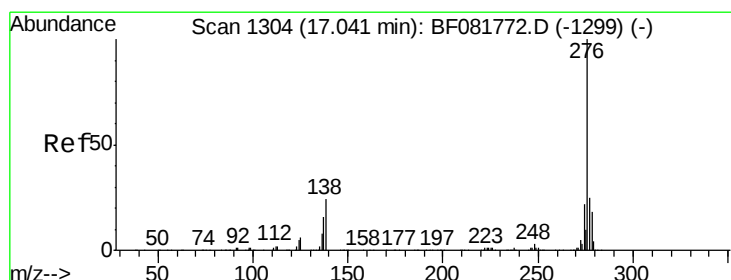
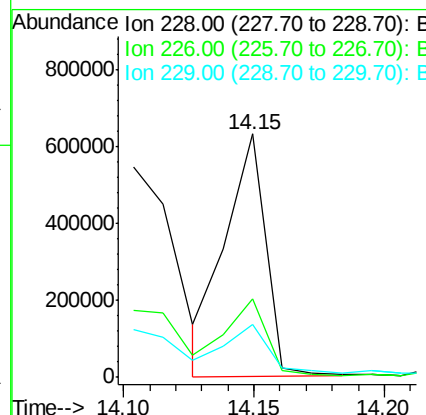
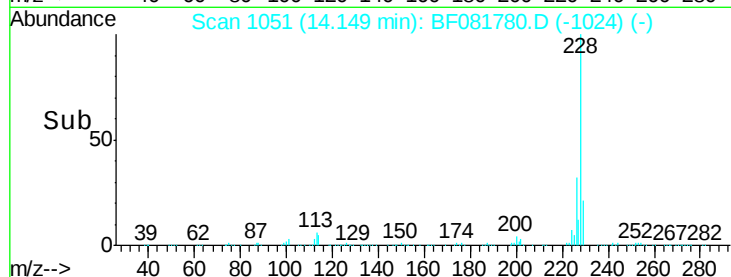
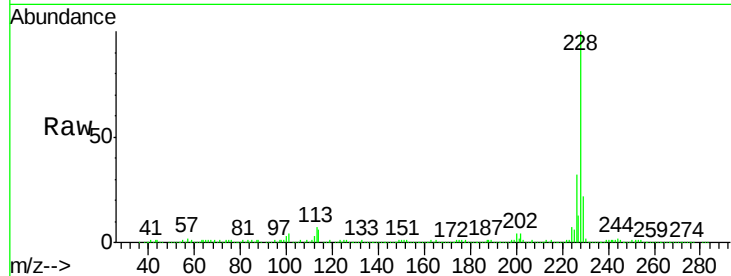
ClientSampleId :

MGP205-10-12DL

Tgt Ion:	228	Resp:	680414
Ion Ratio	Lower	Upper	
228	100		
226	32.2	21.0	31.4#
229	22.0	15.6	23.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 14.83 ng

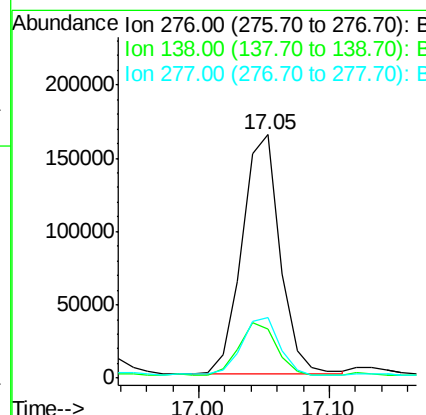
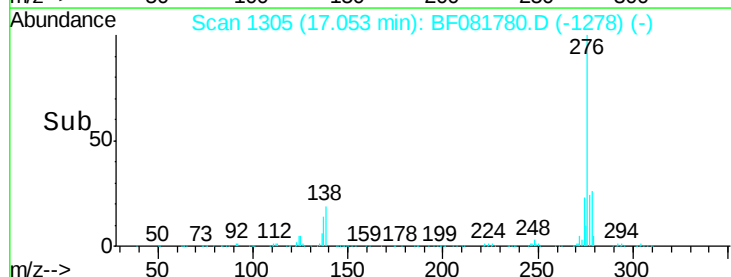
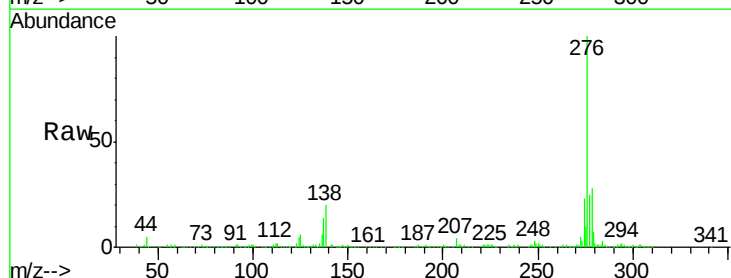
RT: 17.05 min Scan# 1305

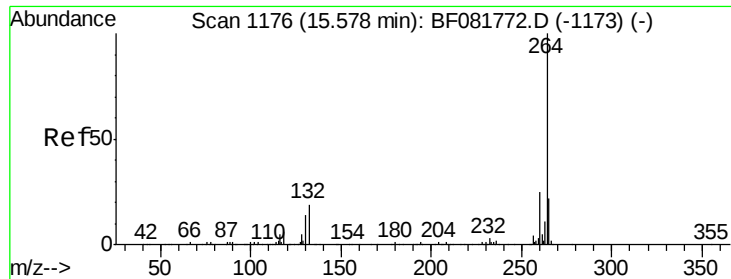
Delta R.T. 0.01 min

Lab File: BF081780.D

Acq: 24 Sep 2015 23:31

Tgt Ion:	276	Resp:	329303
Ion Ratio	Lower	Upper	
276	100		
138	22.2	25.7	38.5#
277	24.1	15.6	23.4#





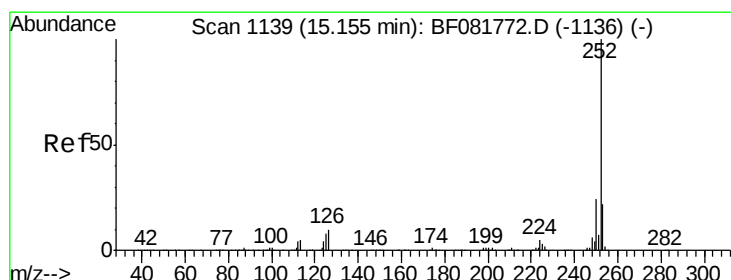
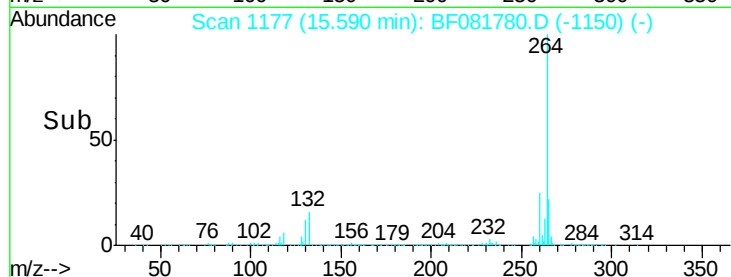
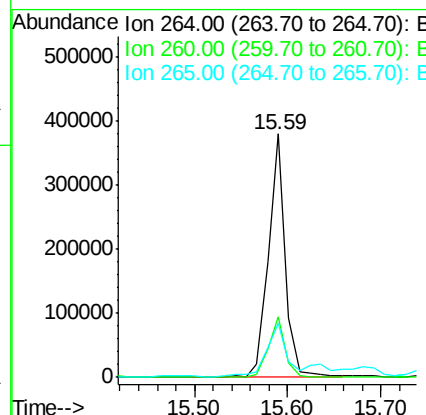
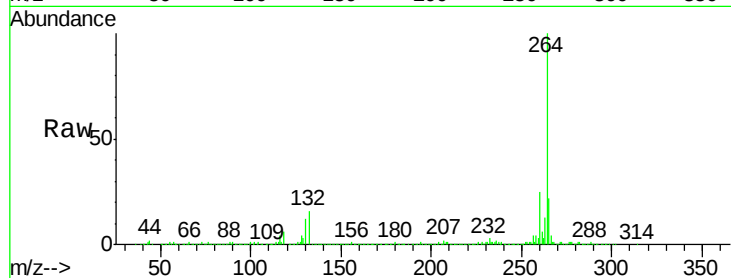
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.59 min Scan# 1177
Delta R.T. 0.01 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Instrument :
BNA_F
ClientSampleId :
MGP205-10-12DL

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	16.7	25.1
265	22.5	17.2	25.8

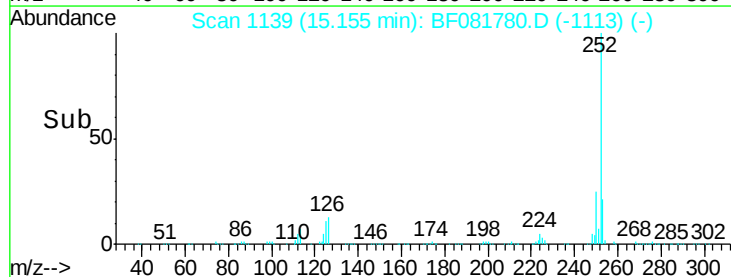
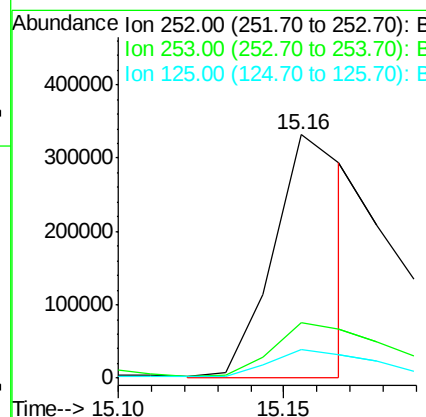
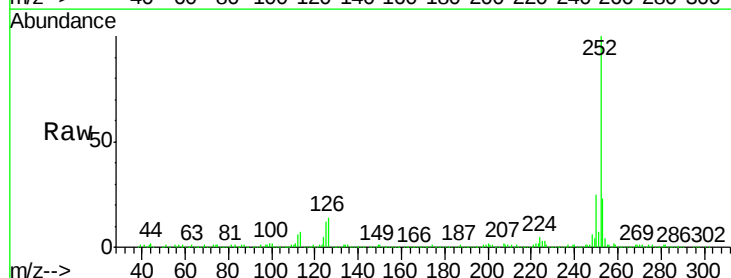
Manual Integrations
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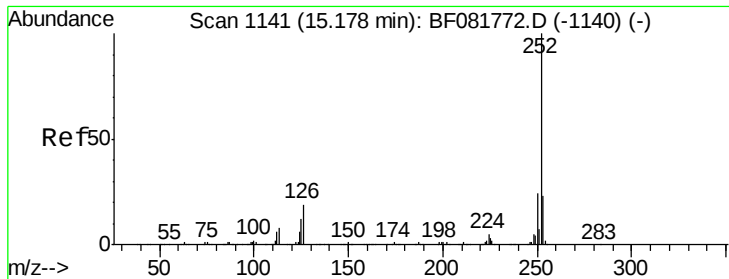
MMDadoda
9/25/2015 3:37:32 PM



#87
Benzo(b)fluoranthene
Concen: 18.11 ng m
RT: 15.16 min Scan# 1139
Delta R.T. -0.00 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	11.5	17.1	25.7#





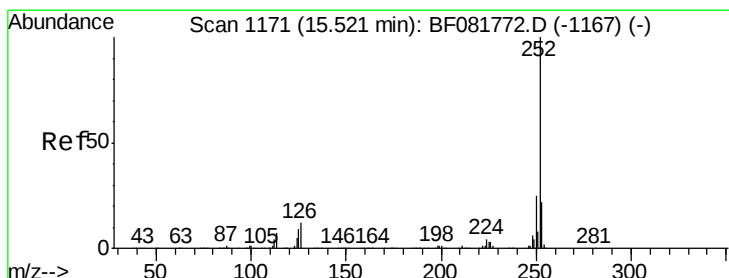
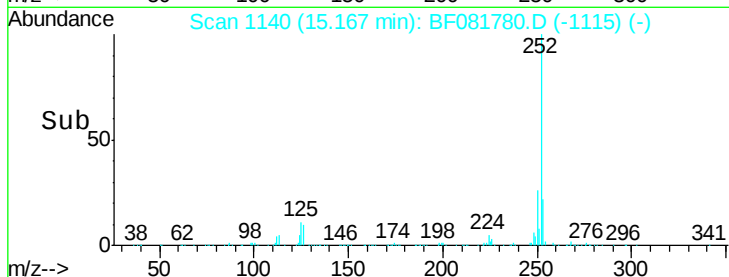
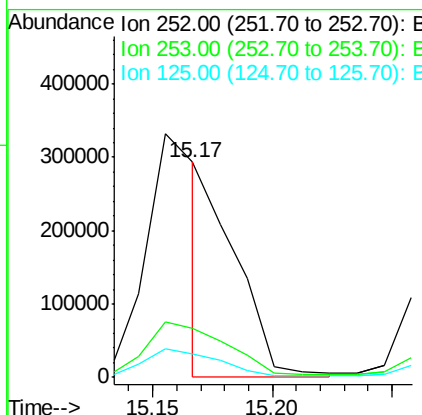
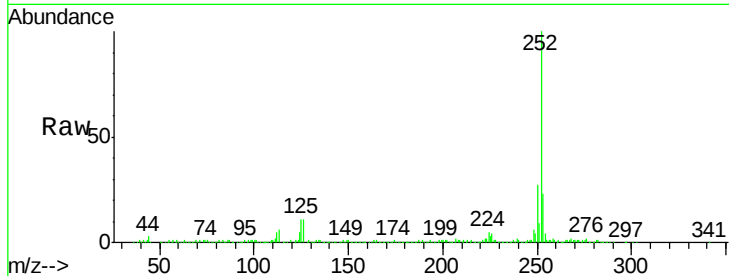
#88
Benzo(k)fluoranthene
Concen: 9.33 ng m
RT: 15.17 min Scan# 1140
Delta R.T. -0.01 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Instrument :
BNA_F
ClientSampleId :
MGP205-10-12DL

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.4
125	11.2	16.0	24.0

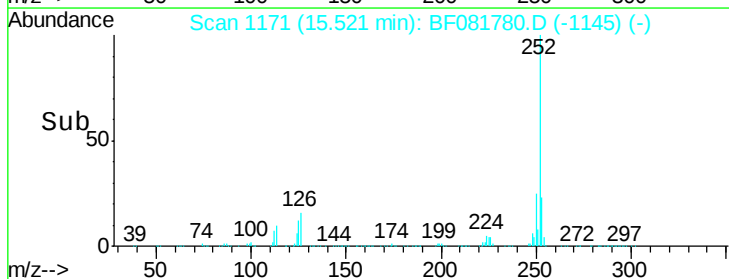
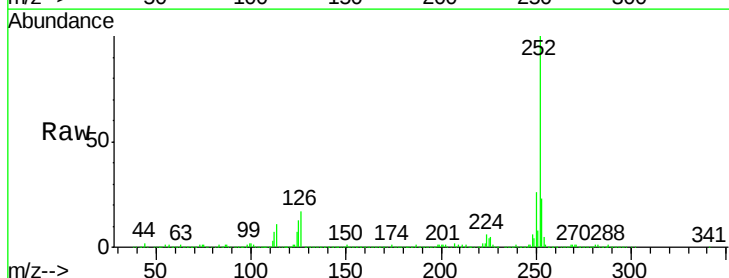
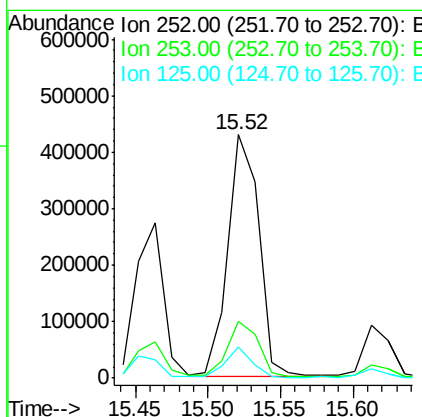
Manual Integrations
APPROVED

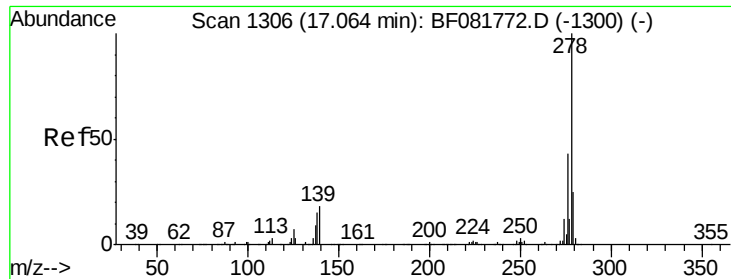
MMDadoda
9/25/2015 3:37:32 PM



#89
Benzo(a)pyrene
Concen: 25.06 ng
RT: 15.52 min Scan# 1171
Delta R.T. -0.00 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.2	25.8
125	12.6	18.0	27.0





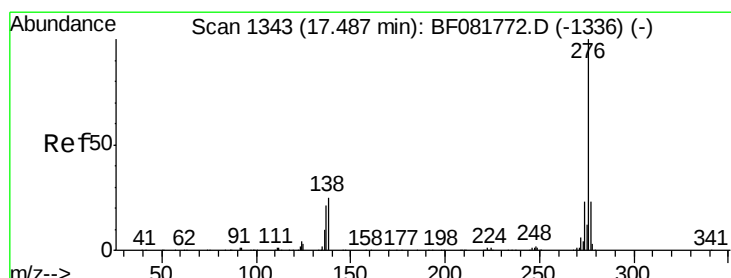
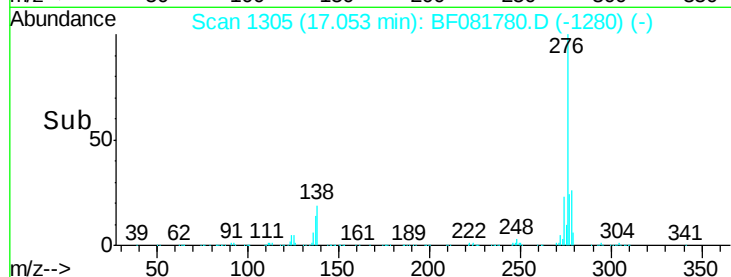
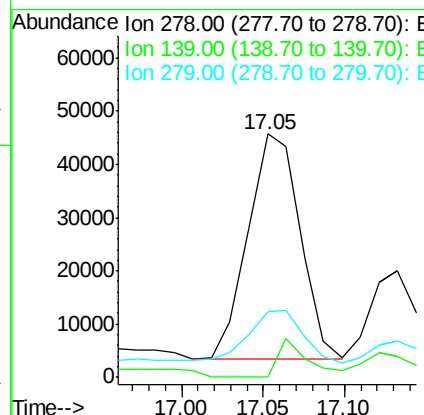
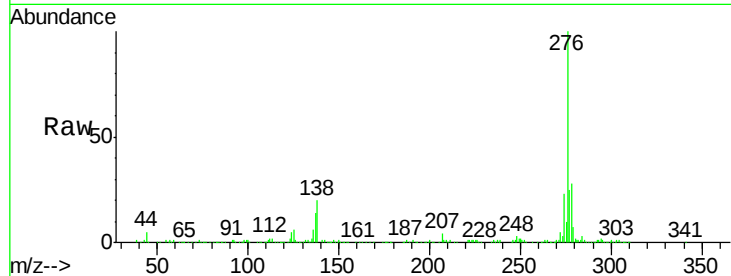
#90
Dibenzo(a,h)anthracene
Concen: 3.49 ng
RT: 17.05 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Instrument :
BNA_F
ClientSampleId :
MGP205-10-12DL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	26.3	39.5#
279	26.9	18.2	27.4

Manual Integrations
APPROVED

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9/25/2015 3:37:32 PM



#91
Benzo(g,h,i)perylene
Concen: 13.50 ng
RT: 17.50 min Scan# 1344
Delta R.T. 0.01 min
Lab File: BF081780.D
Acq: 24 Sep 2015 23:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.8	26.6
138	21.7	34.6	51.8#

