

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092215\
 Data File : BF081764.D
 Acq On : 23 Sep 2015 10:05
 Operator : UM/IZ
 Sample : G3748-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12

Manual Integrations
 APPROVED

MMDadoda
 9/23/2015 4:34:24 PM

Quant Time: Sep 23 12:00:23 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF090115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 22 17:42:58 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	45039	20.00	ng	0.00
21) Naphthalene-d8	11.11	136	173561	20.00	ng	0.07
38) Acenaphthene-d10	15.18	164	72988	20.00	ng	0.01
63) Phenanthrene-d10	18.70	188	126321	20.00	ng	0.02
75) Chrysene-d12	23.37	240	93591	20.00	ng	0.05
86) Perylene-d12	24.80	264	78374	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	291725	100.49	ng	0.02
7) Phenol-d6	7.58	99	407643	106.09	ng	0.00
23) Nitrobenzene-d5	9.44	82	274531	76.31	ng	-0.01
41) 2,4,6-Tribromophenol	17.10	330	63638	97.92	ng	0.02
44) 2-Fluorobiphenyl	13.69	172	449425	78.91	ng	0.00
78) Terphenyl-d14	22.08	244	292095	72.65	ng	0.03
Target Compounds						
31) Naphthalene	11.20	128	12065965	1303.55	ng	Qvalue 95
37) 2-Methylnaphthalene	12.83	142	3827078	635.35	ng	# 90
45) 1,1'-Biphenyl	13.91	154	744684	110.90	ng	96
48) Acenaphthylene	14.86	152	728865	84.72	ng	97
49) Dimethylphthalate	14.76	163	36658	6.46	ng	# 98
51) Acenaphthene	15.29	154	1146438	234.25	ng	89
54) Dibenzofuran	15.68	168	273661	38.29	ng	# 83
57) Fluorene	16.54	166	1707456	314.85	ng	# 93
70) Phenanthrene	18.86	178	6519122	928.29	ng	95
71) Anthracene	18.94	178	1796898m	249.05	ng	
72) Carbazole	19.36	167	89578	13.23	ng	# 90
74) Fluoranthene	21.45	202	2246123	295.45	ng	93
77) Pyrene	21.81	202	3199962m	461.58	ng	
80) Benzo(a)anthracene	23.36	228	1093203	183.42	ng	94
82) Chrysene	23.41	228	1088588m	203.75	ng	
85) Indeno(1,2,3-cd)pyrene	25.84	276	288537	73.61	ng	# 82
87) Benzo(b)fluoranthene	24.47	252	692383m	123.74	ng	
88) Benzo(k)fluoranthene	24.47	252	308175m	66.38	ng	
89) Benzo(a)pyrene	24.76	252	886713	187.01	ng	# 88
90) Dibenzo(a,h)anthracene	25.84	278	95240	26.00	ng	# 74
91) Benzo(g,h,i)perylene	26.14	276	275514	78.79	ng	# 75

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

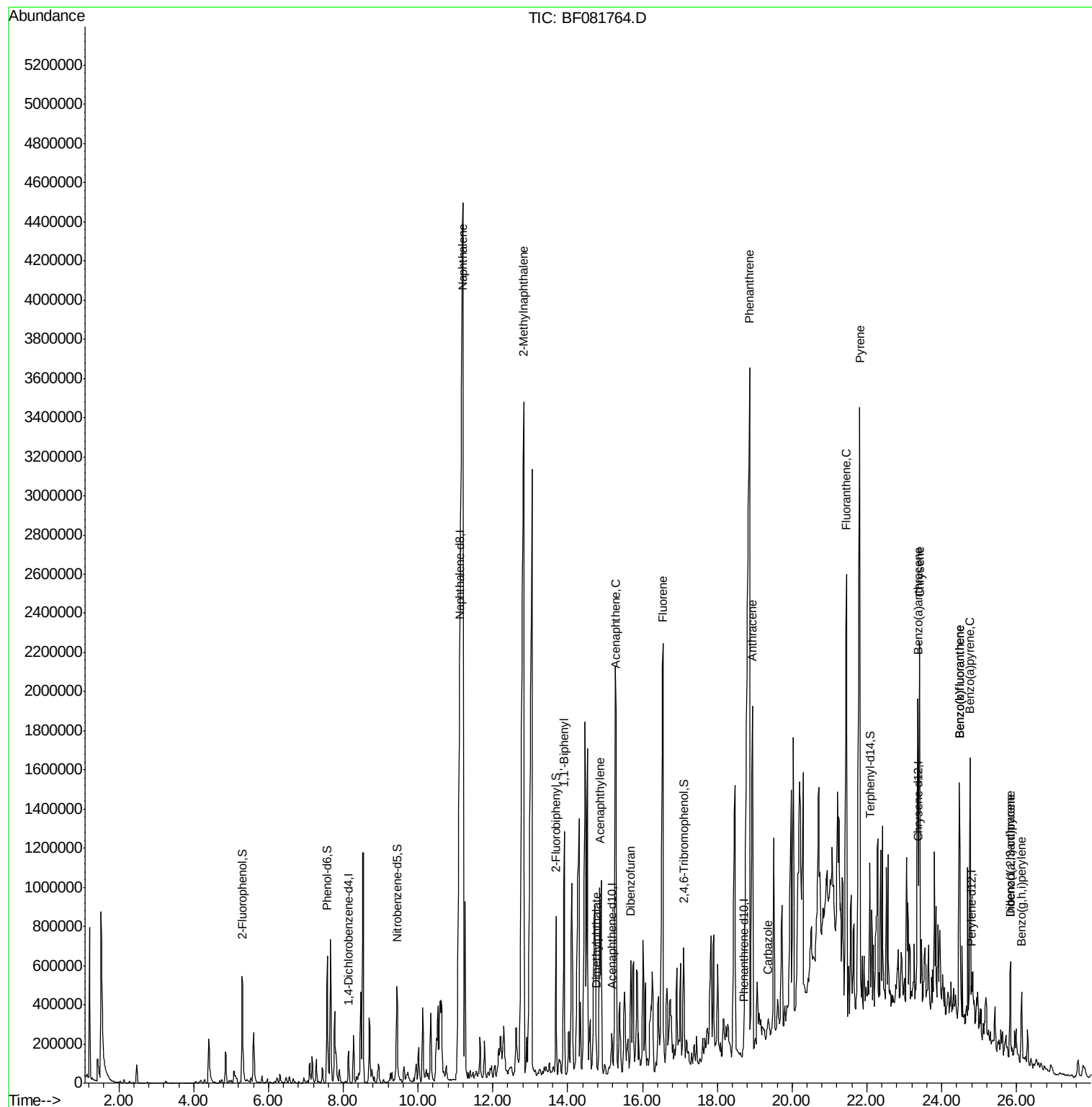
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092215\
Data File : BF081764.D
Acq On : 23 Sep 2015 10:05
Operator : UM/IZ
Sample : G3748-04
Misc :
ALS Vial : 22 Sample Multiplier: 1

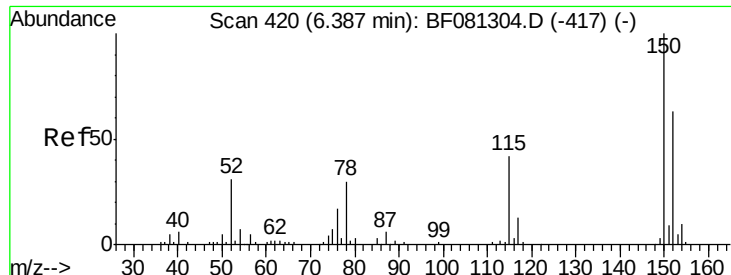
Instrument :
BNA_F
ClientSampleId :
MGP205-10-12

Manual Integrations
APPROVED

MMDadoda
9/23/2015 4:34:24 PM

Quant Time: Sep 23 12:00:23 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF090115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 22 17:42:58 2015
Response via : Initial Calibration





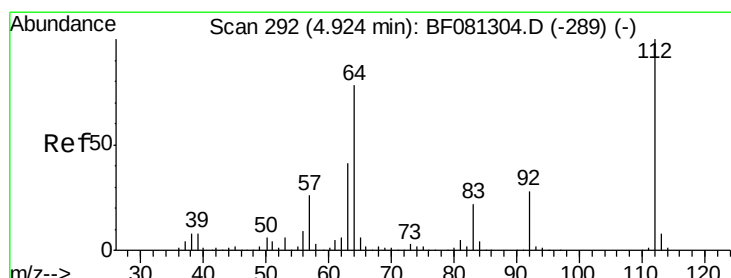
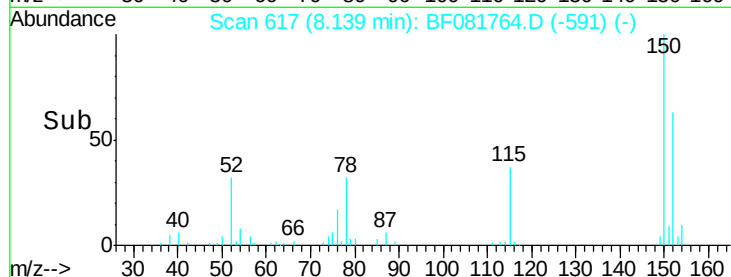
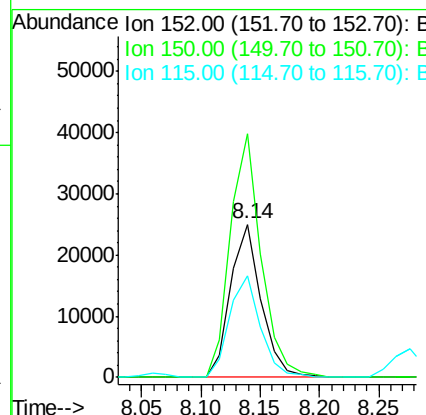
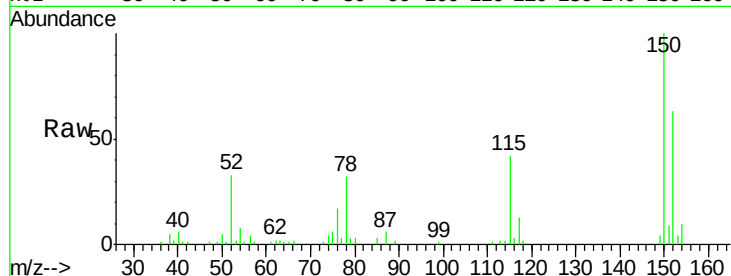
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 8.14 min Scan# 617
 Delta R.T. -0.00 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	124.7	187.1
115	66.2	39.0	58.4#

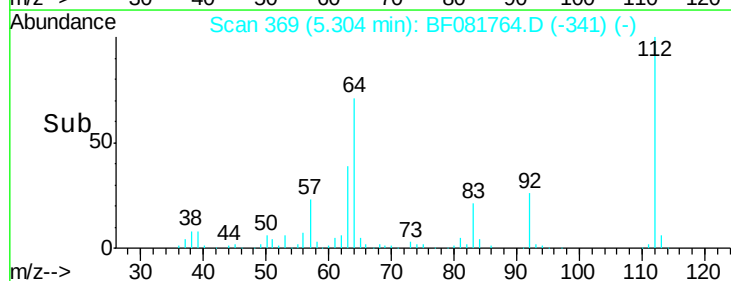
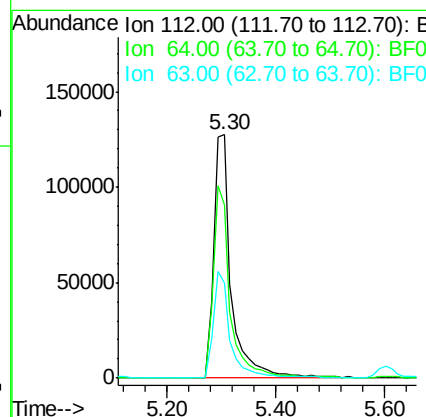
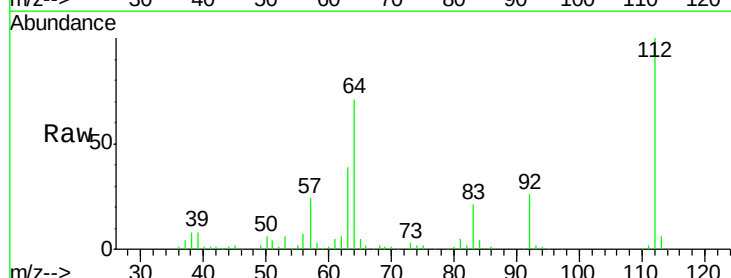
Manual Integrations
 APPROVED

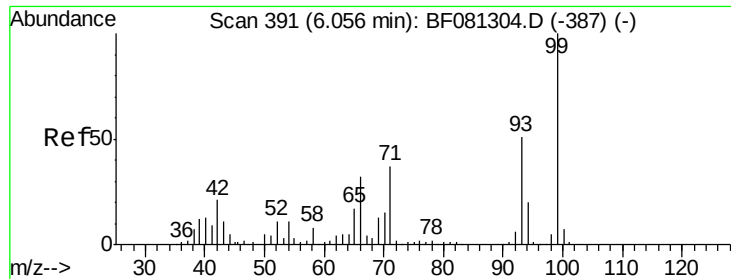
MMDadoda
 9/23/2015 4:34:24 PM



#5
 2-Fluorophenol
 Concen: 100.49 ng
 RT: 5.30 min Scan# 369
 Delta R.T. 0.02 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.1	39.7	59.5#
63	39.1	17.4	26.0#





#7

Phenol-d6

Concen: 106.09 ng

RT: 7.58 min Scan# 568

Delta R.T. -0.00 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Instrument :

BNA_F

ClientSampleId :

MGP205-10-12

Tot Ion: 99 Resp: 407643

Ion Ratio Lower Upper

99 100

42 25.3 13.7 20.5#

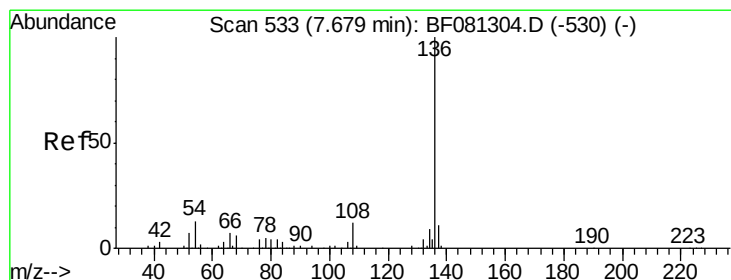
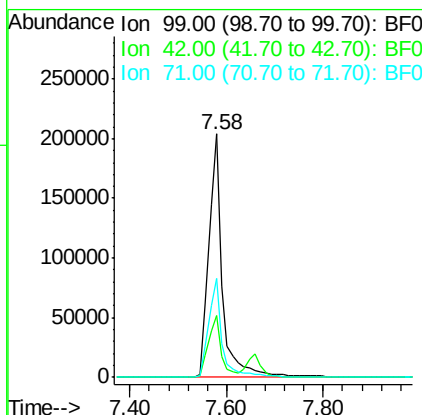
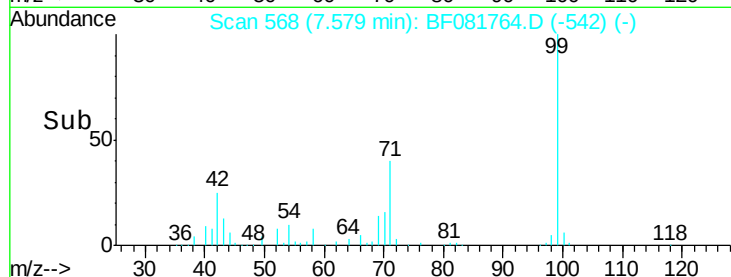
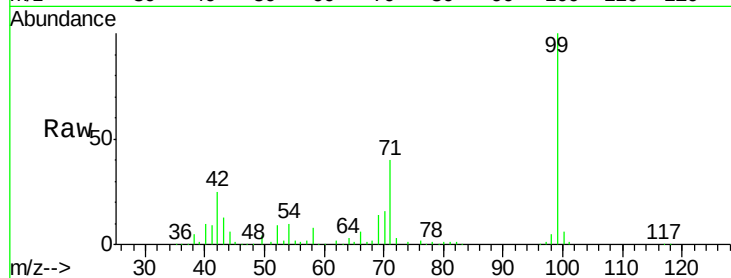
71 40.5 14.2 21.2#

Manual Integrations

APPROVED

MMDadoda

9/23/2015 4:34:24 PM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.11 min Scan# 877

Delta R.T. 0.07 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Tgt Ion: 136 Resp: 173561

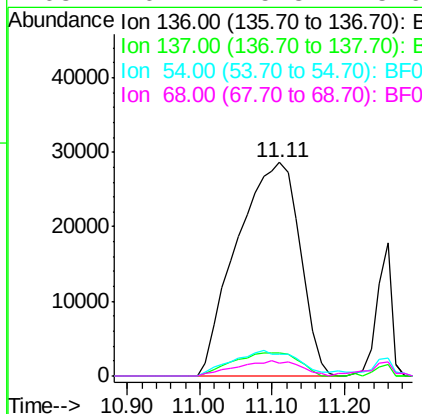
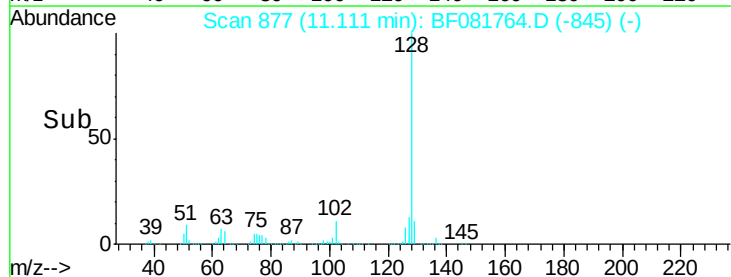
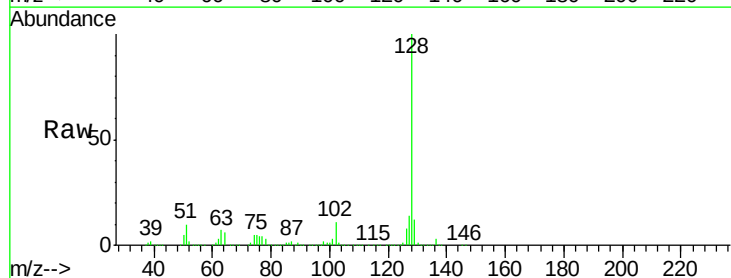
Ion Ratio Lower Upper

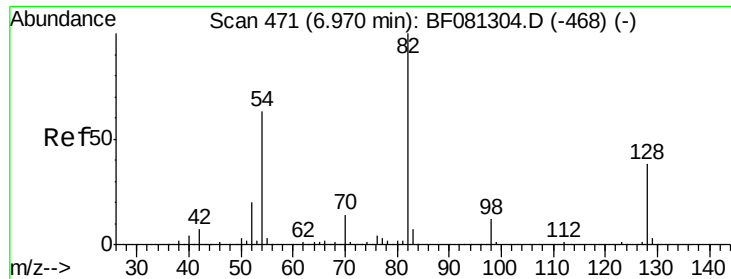
136 100

137 10.9 9.0 13.6

54 10.3 8.2 12.2

68 6.1 5.8 8.6





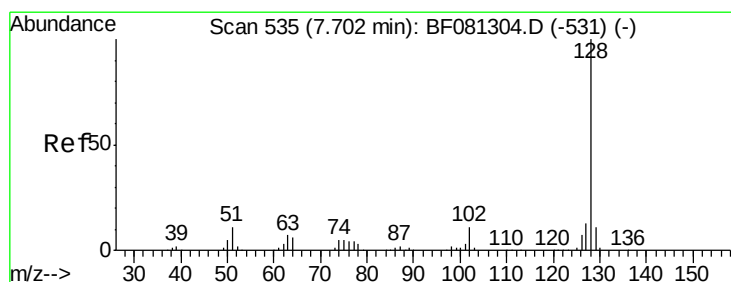
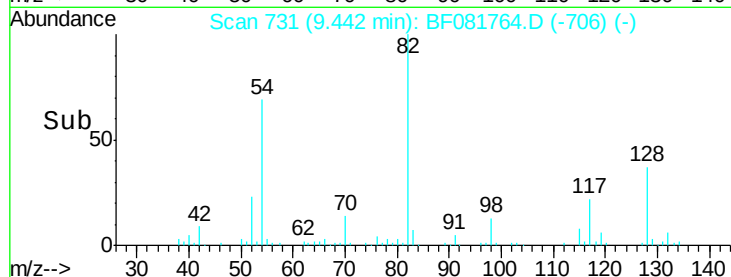
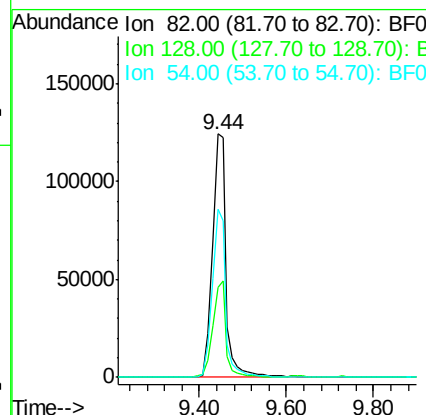
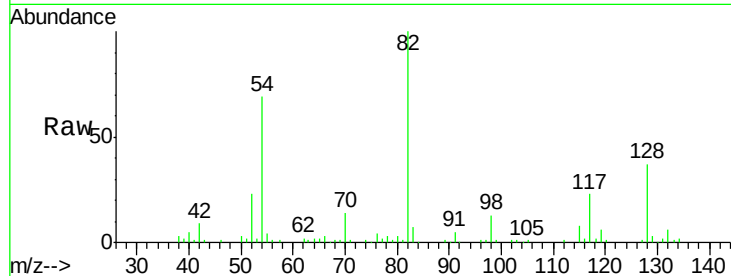
#23
 Nitrobenzene-d5
 Concen: 76.31 ng
 RT: 9.44 min Scan# 731
 Delta R.T. -0.01 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.0	51.0	76.6#
54	69.1	47.5	71.3

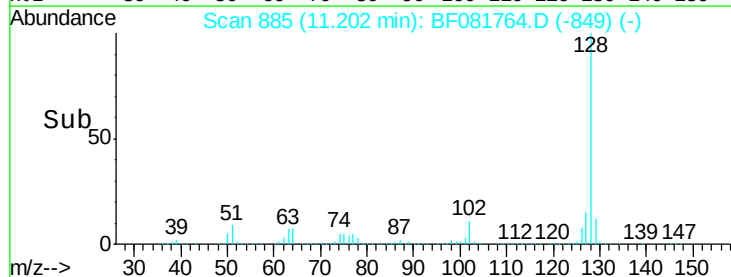
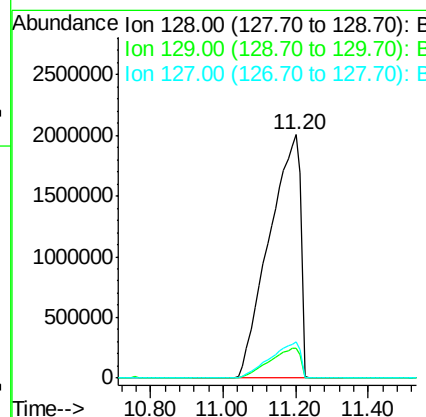
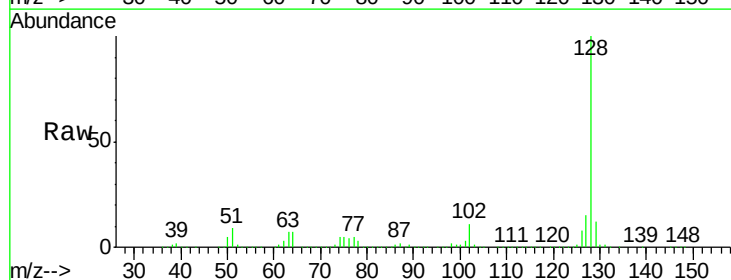
Manual Integrations
 APPROVED

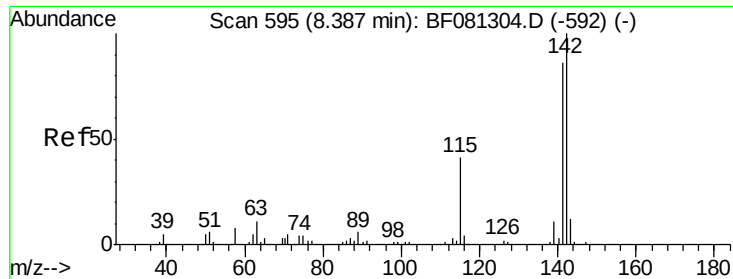
MMDadoda
 9/23/2015 4:34:24 PM



#31
 Naphthalene
 Concen: 1303.55 ng
 RT: 11.20 min Scan# 885
 Delta R.T. 0.11 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.2	8.4	12.6
127	14.7	9.9	14.9





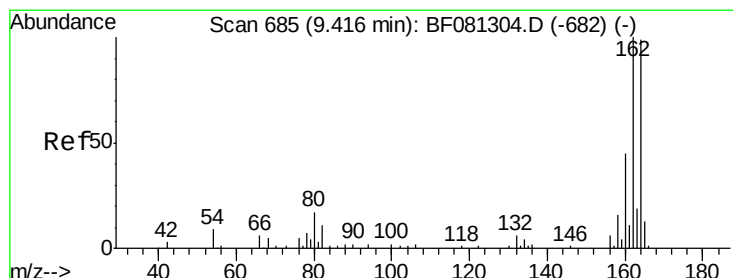
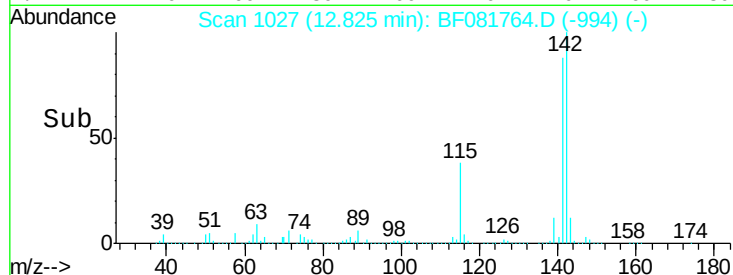
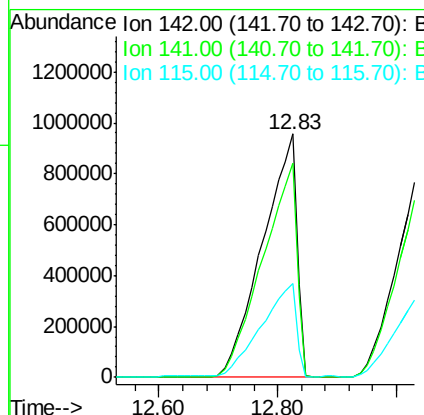
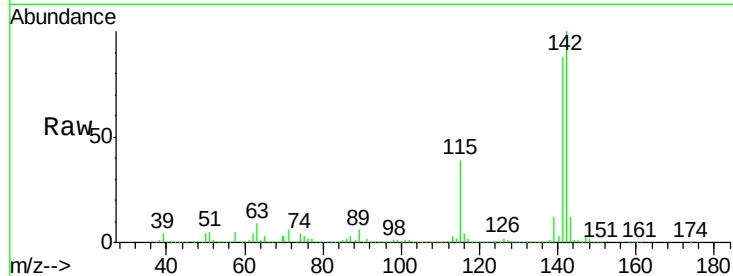
#37
 2-Methylnaphthalene
 Concen: 635.35 ng
 RT: 12.83 min Scan# 1027
 Delta R.T. 0.08 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12

Tot Ion:142 Resp: 3827078
 Ion Ratio Lower Upper
 142 100
 141 88.1 67.5 101.3
 115 38.7 18.2 27.2#

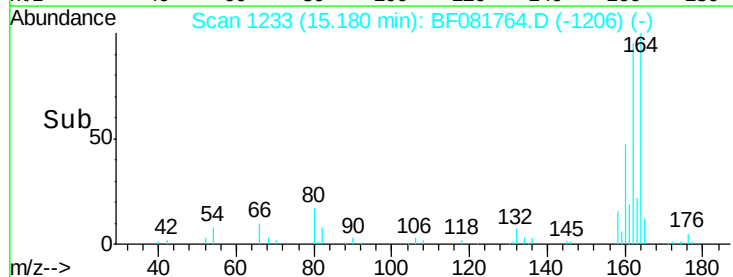
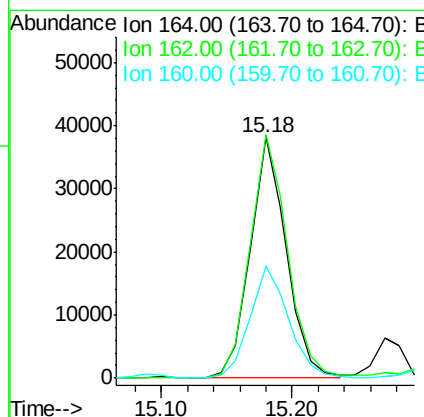
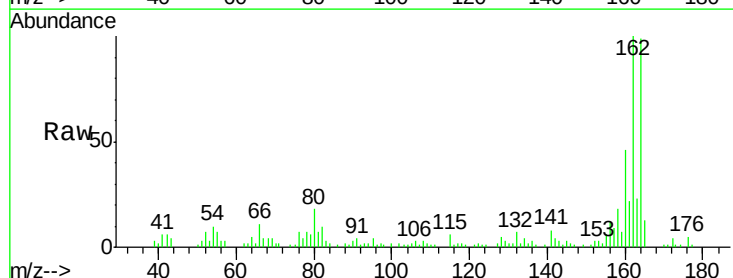
Manual Integrations
 APPROVED

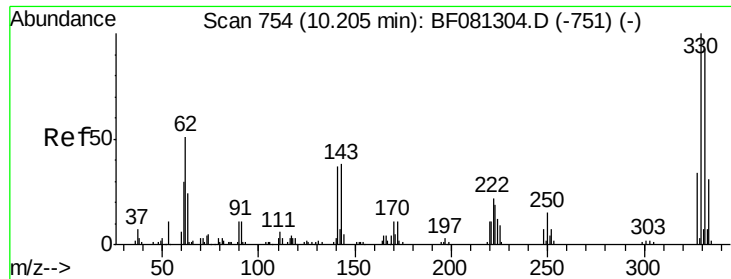
MMDadoda
 9/23/2015 4:34:24 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 15.18 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Tgt Ion:164 Resp: 72988
 Ion Ratio Lower Upper
 164 100
 162 101.1 75.2 112.8
 160 46.6 31.5 47.3





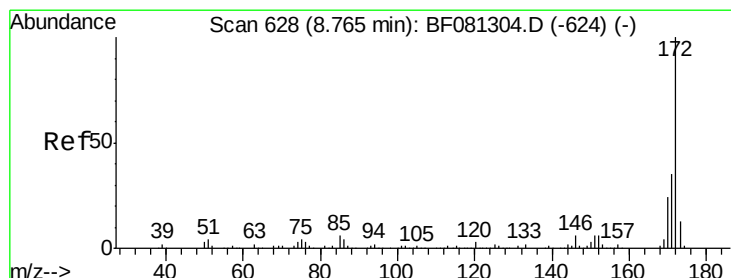
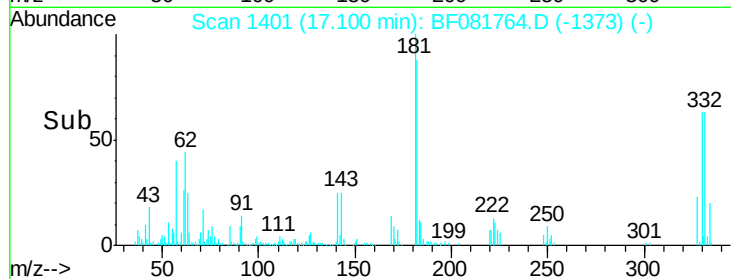
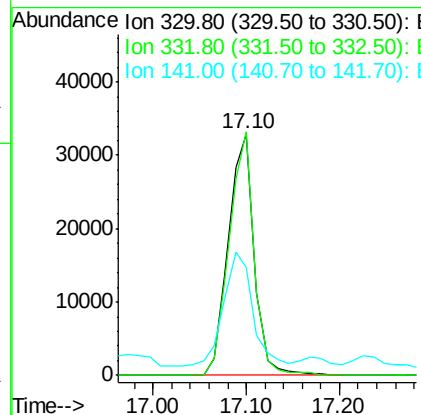
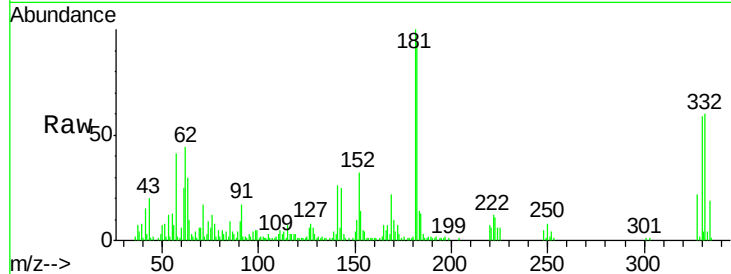
#41
 2,4,6-Tribromophenol
 Concen: 97.92 ng
 RT: 17.10 min Scan# 1401
 Delta R.T. 0.02 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	114.8
141	54.9	29.7	44.5

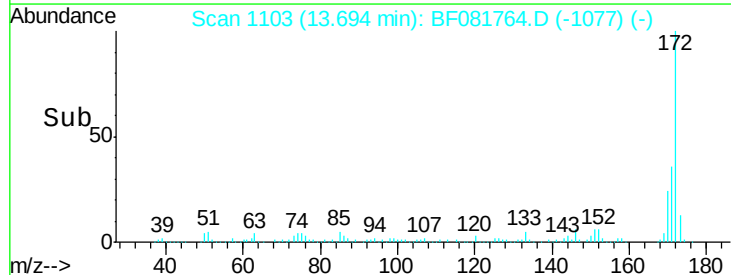
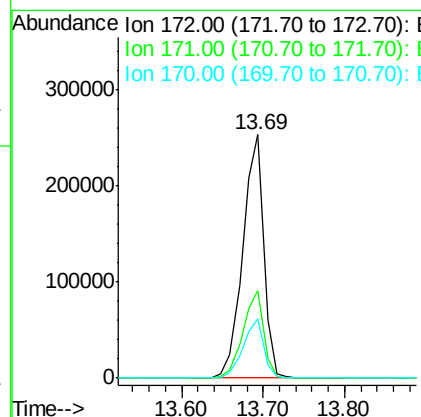
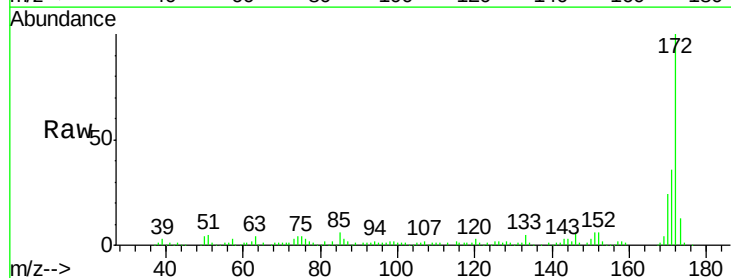
Manual Integrations
 APPROVED

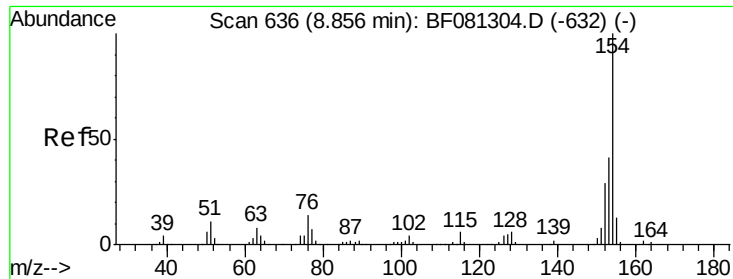
MMDadoda
 9/23/2015 4:34:24 PM



#44
 2-Fluorobiphenyl
 Concen: 78.91 ng
 RT: 13.69 min Scan# 1103
 Delta R.T. 0.00 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	26.1	39.1
170	24.3	17.4	26.2





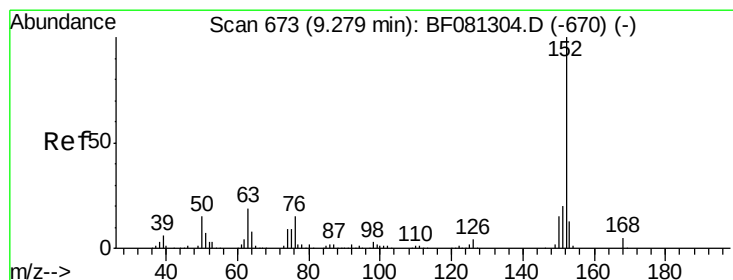
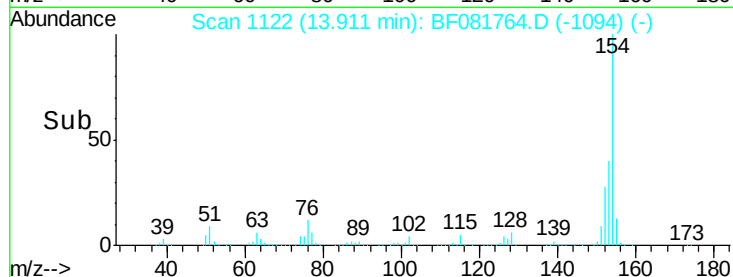
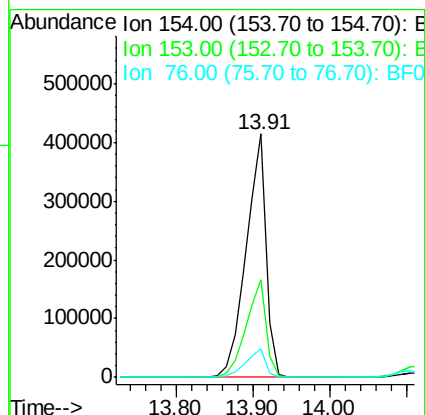
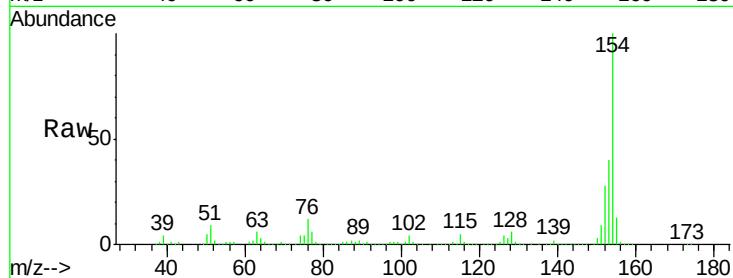
#45
 1,1'-Biphenyl
 Concen: 110.90 ng
 RT: 13.91 min Scan# 1122
 Delta R.T. 0.02 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Instrument :
 BNA_F
 ClientSampled :
 MGP205-10-12

Tot Ion:	154	Resp:	744684
Ion Ratio	Lower	Upper	
154	100		
153	40.0	17.1	57.1
76	11.6	0.0	31.6

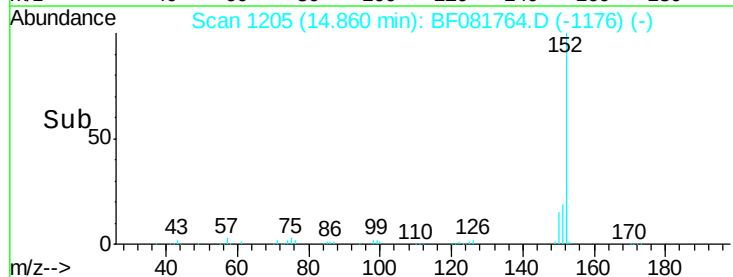
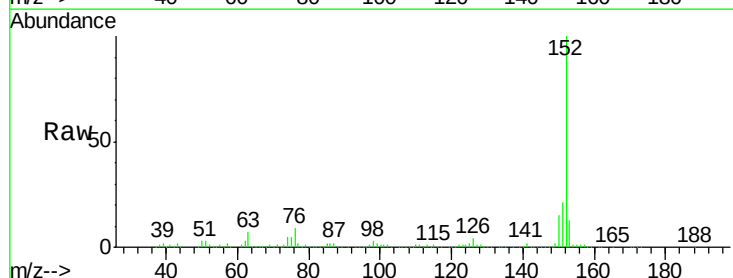
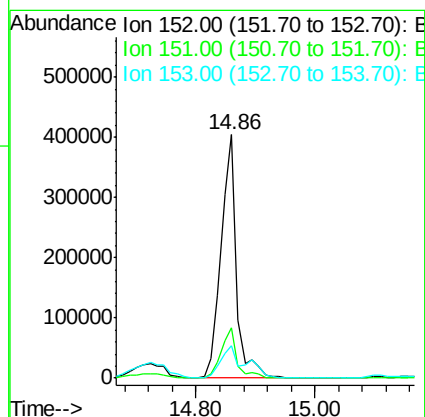
Manual Integrations
 APPROVED

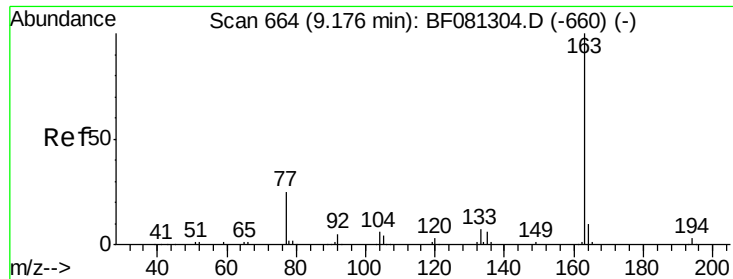
MMDadoda
 9/23/2015 4:34:24 PM



#48
 Acenaphthylene
 Concen: 84.72 ng
 RT: 14.86 min Scan# 1205
 Delta R.T. 0.03 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Tgt Ion:	152	Resp:	728865
Ion Ratio	Lower	Upper	
152	100		
151	20.5	14.6	22.0
153	13.4	10.3	15.5





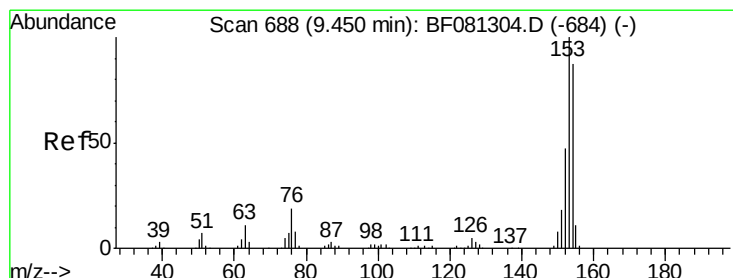
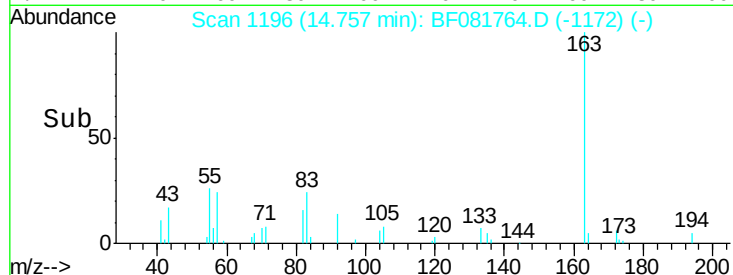
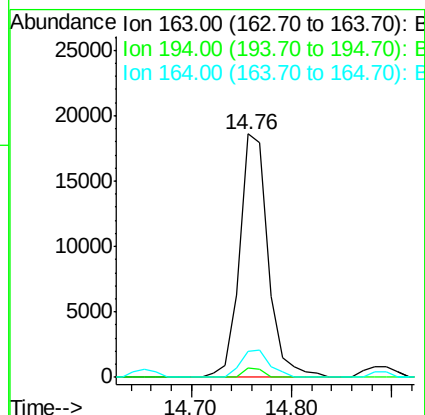
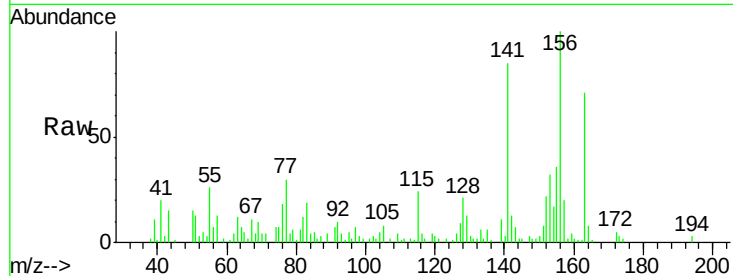
#49
Dimethylphthalate
Concen: 6.46 ng
RT: 14.76 min Scan# 1196
Delta R.T. -0.02 min
Lab File: BF081764.D
Acq: 23 Sep 2015 10:05

Instrument :
BNA_F
ClientSampleId :
MGP205-10-12

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.7	4.4	6.6#
164	10.7	8.3	12.5

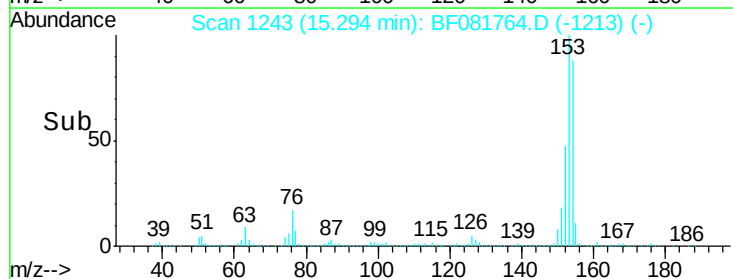
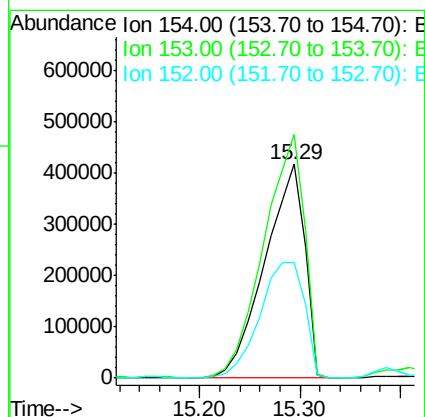
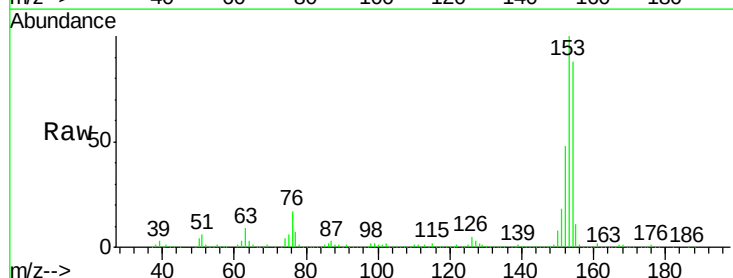
Manual Integrations
APPROVED

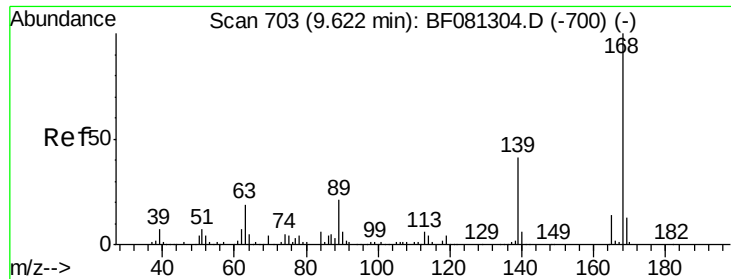
MMDadoda
9/23/2015 4:34:24 PM



#51
Acenaphthene
Concen: 234.25 ng
RT: 15.29 min Scan# 1243
Delta R.T. 0.05 min
Lab File: BF081764.D
Acq: 23 Sep 2015 10:05

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.7	82.1	123.1
152	54.1	37.9	56.9





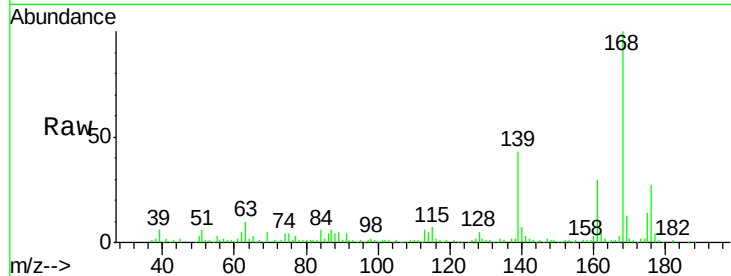
#54
Dibenzenofuran
Concen: 38.29 ng
RT: 15.68 min Scan# 1277
Delta R.T. 0.01 min
Lab File: BF081764.D
Acq: 23 Sep 2015 10:05

Instrument :
BNA_F
ClientSampleId :
MGP205-10-12

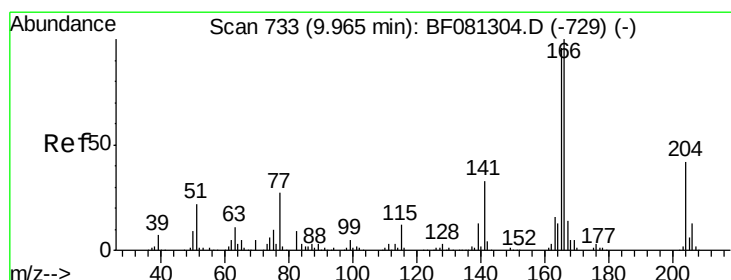
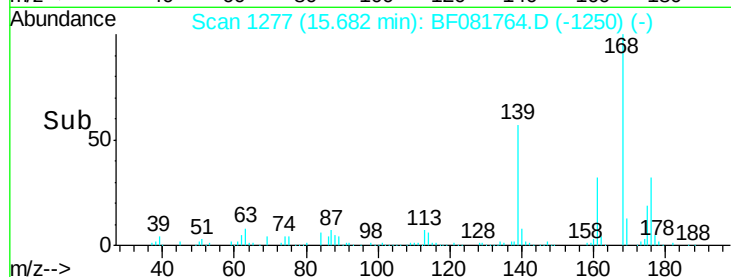
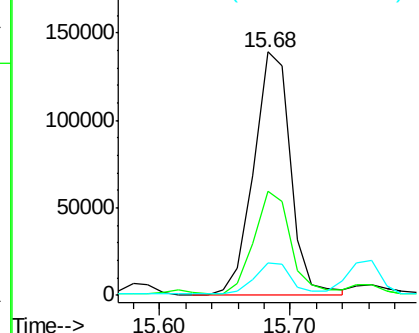
Tot Ion	Ratio	Lower	Upper
168	100		
139	43.0	24.2	36.2#
169	13.5	10.6	15.8

Manual Integrations
APPROVED

MMDadoda
9/23/2015 4:34:24 PM

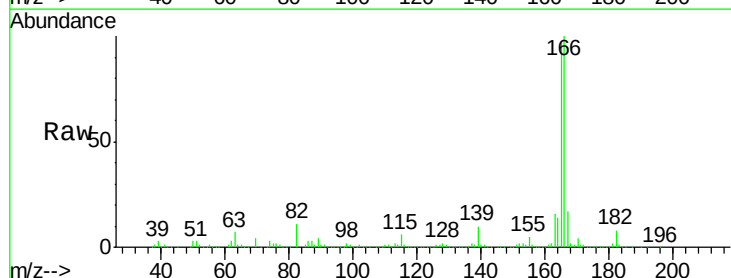


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

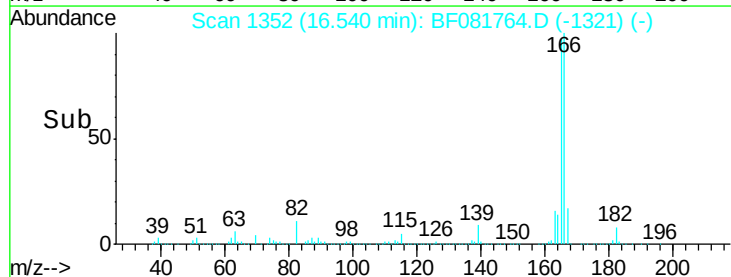
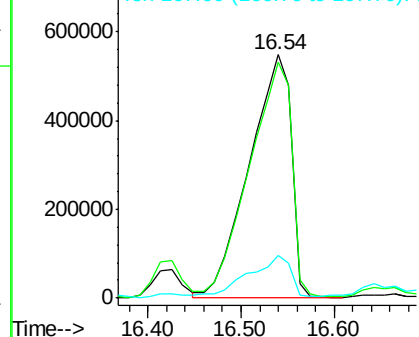


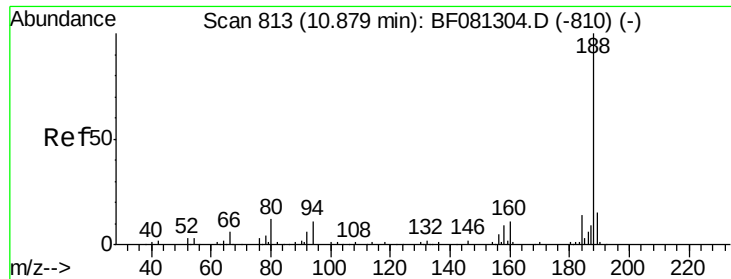
#57
Fluorene
Concen: 314.85 ng
RT: 16.54 min Scan# 1352
Delta R.T. 0.06 min
Lab File: BF081764.D
Acq: 23 Sep 2015 10:05

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.2	72.6	109.0
167	17.3	10.6	16.0#



Abundance Ion 166.00 (165.70 to 166.70): E
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: 18.70 min Scan# 1541

Delta R.T. 0.02 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Instrument :

BNA_F

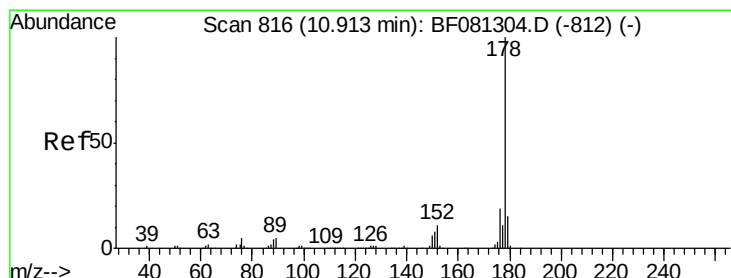
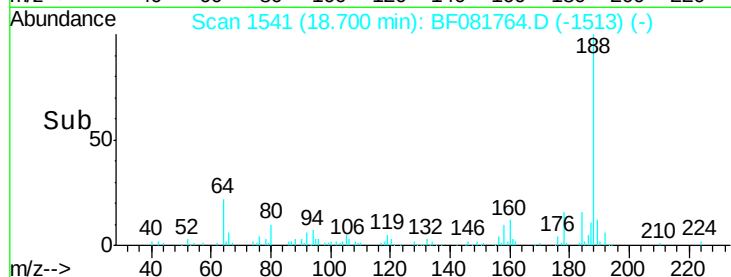
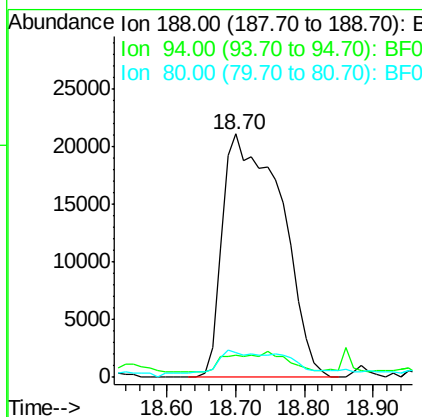
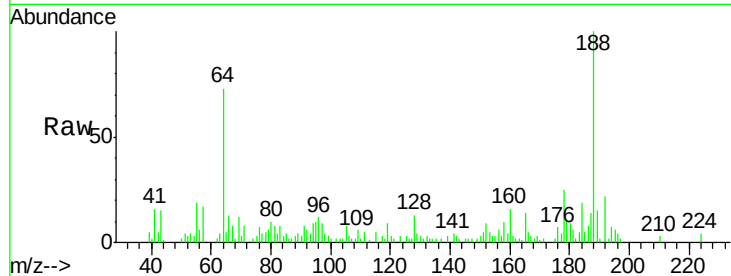
ClientSampleId :

MGP205-10-12

Tot Ion:	188	Resp:	126321
Ion Ratio	Lower	Upper	
188	100		
94	9.0	11.1	16.7#
80	10.3	11.0	16.4#

Manual Integrations
APPROVED

MMDadoda
9/23/2015 4:34:24 PM



#70

Phenanthrene

Concen: 928.29 ng

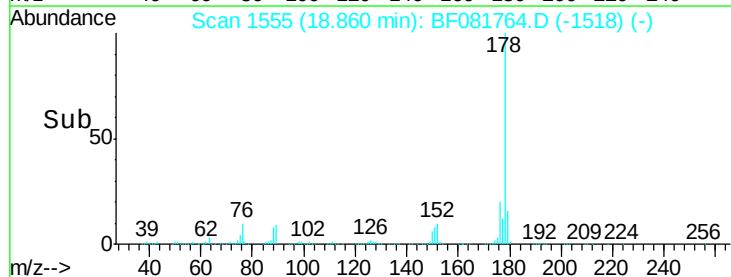
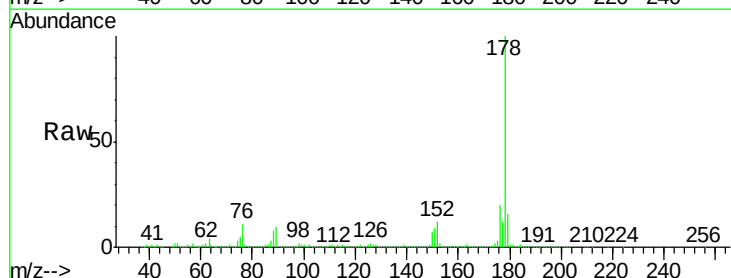
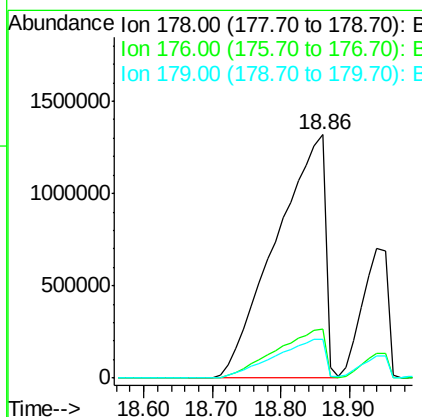
RT: 18.86 min Scan# 1555

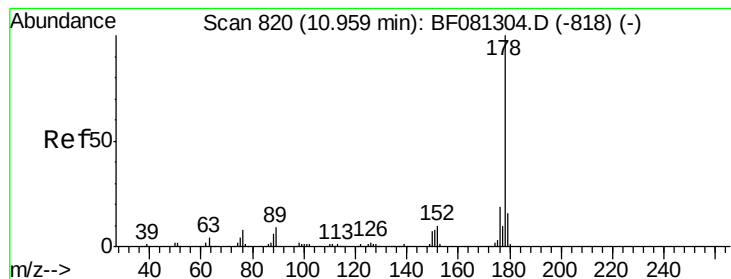
Delta R.T. 0.13 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Tgt Ion:	178	Resp:	6519122
Ion Ratio	Lower	Upper	
178	100		
176	20.4	13.8	20.8
179	16.2	12.2	18.2





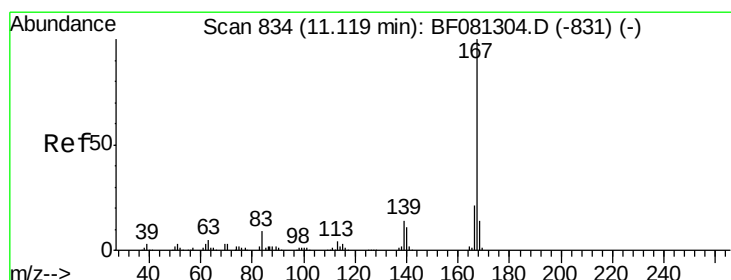
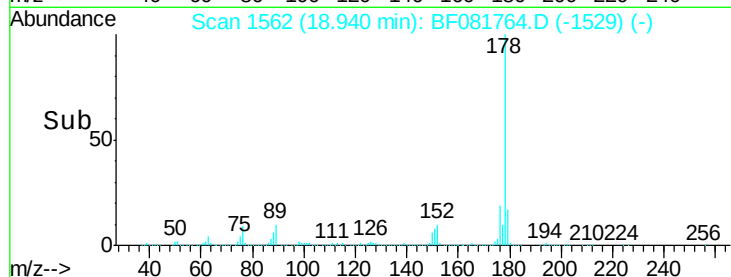
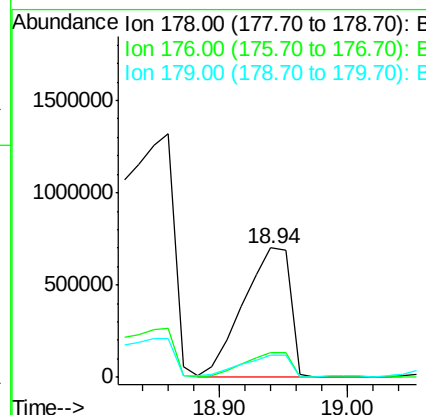
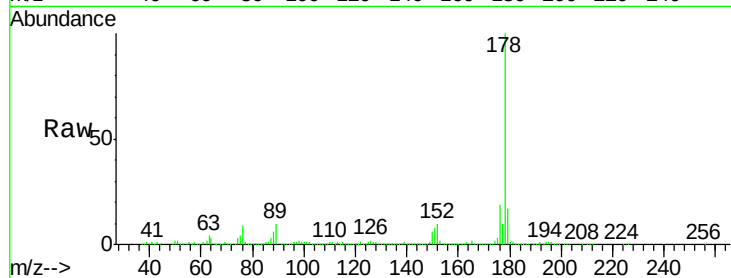
#71
 Anthracene
 Concen: 249.05 ng/mL
 RT: 18.94 min Scan# 1562
 Delta R.T. 0.08 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.1	21.1
179	16.8	12.2	18.2

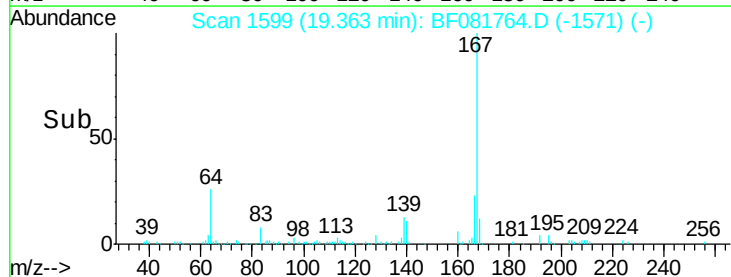
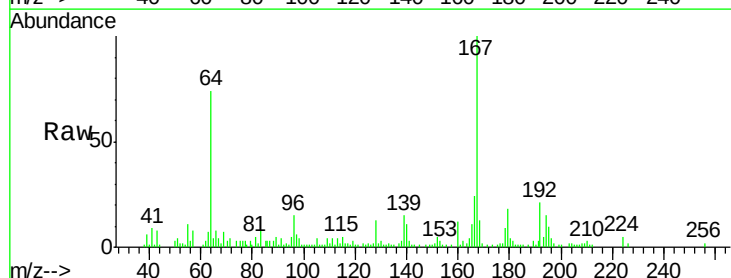
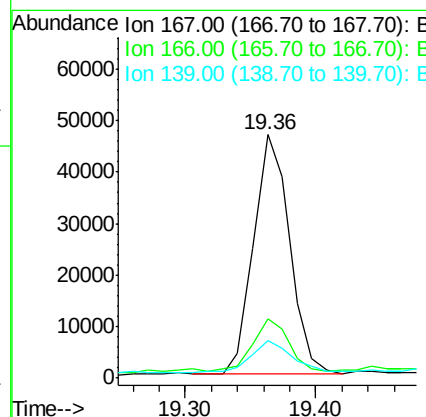
Manual Integrations
 APPROVED

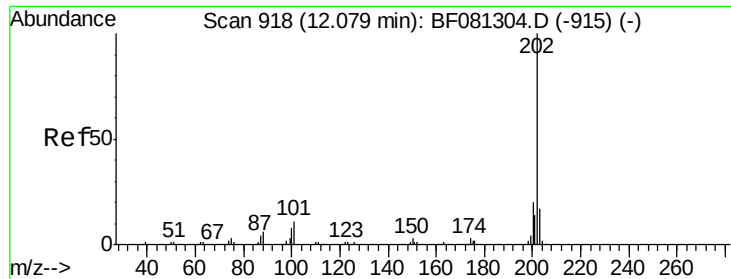
MMDadoda
 9/23/2015 4:34:24 PM



#72
 Carbazole
 Concen: 13.23 ng
 RT: 19.36 min Scan# 1599
 Delta R.T. 0.02 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Tgt Ion	Ratio	Lower	Upper
167	100		
166	24.3	15.7	23.5#
139	15.3	9.5	14.3#





#74

Fluoranthene

Concen: 295.45 ng

RT: 21.45 min Scan# 1782

Delta R.T. 0.09 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Instrument :

BNA_F

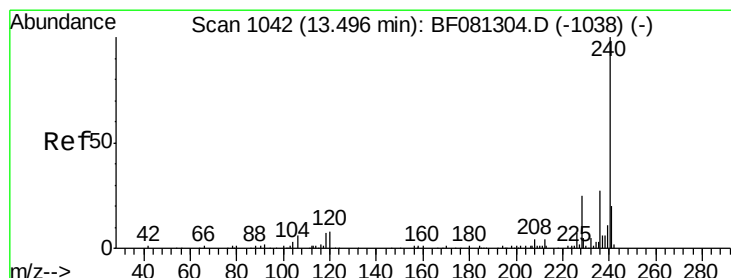
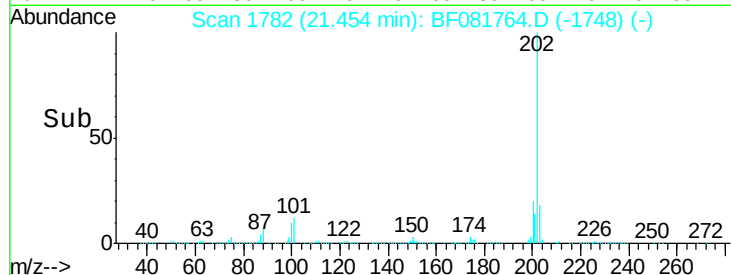
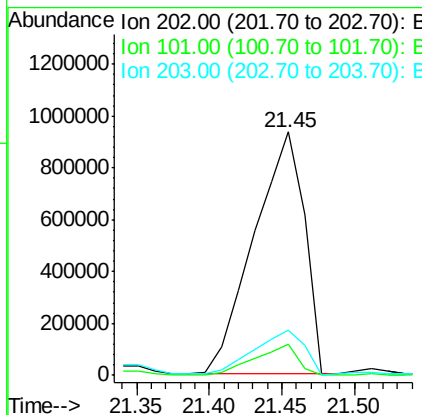
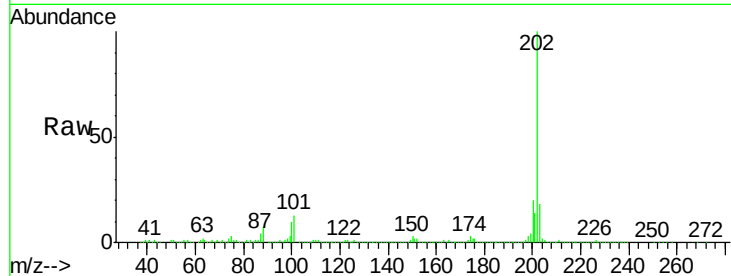
ClientSampleId :

MGP205-10-12

Tot Ion:	202	Resp:	2246123
Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	38.3
203	18.4	0.0	37.3

Manual Integrations
APPROVED

MMDadoda
9/23/2015 4:34:24 PM



#75

Chrysene-d12

Concen: 20.00 ng

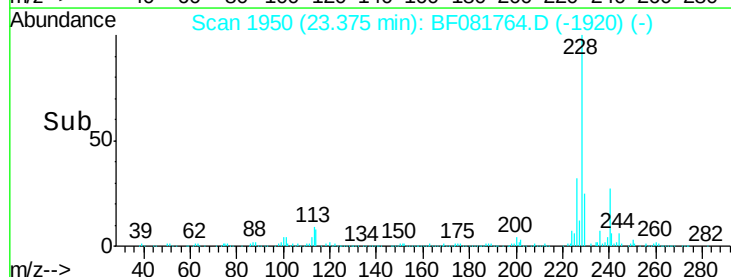
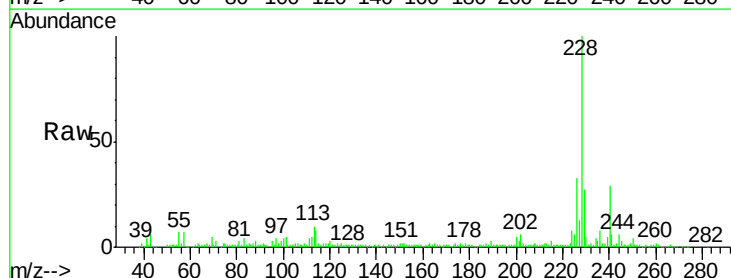
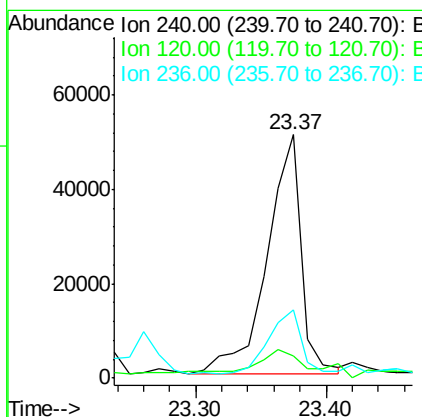
RT: 23.37 min Scan# 1950

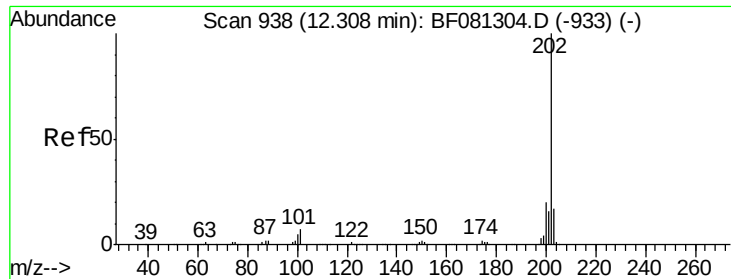
Delta R.T. 0.05 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Tgt Ion:	240	Resp:	93591
Ion	Ratio	Lower	Upper
240	100		
120	9.4	16.2	24.2#
236	27.9	18.4	27.6#





#77

Pvrene

Concen: 461.58 ng/mL

RT: 21.81 min Scan# 1813

Delta R.T. 0.09 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Instrument :

BNA_F

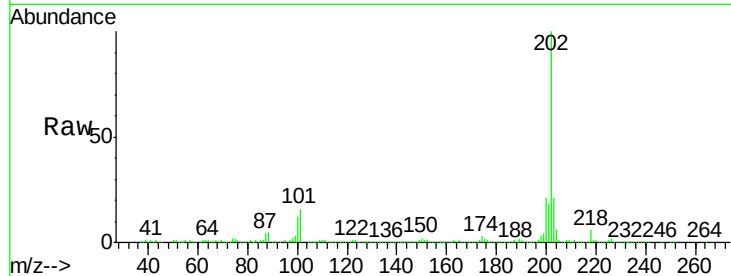
ClientSampleId :

MGP205-10-12

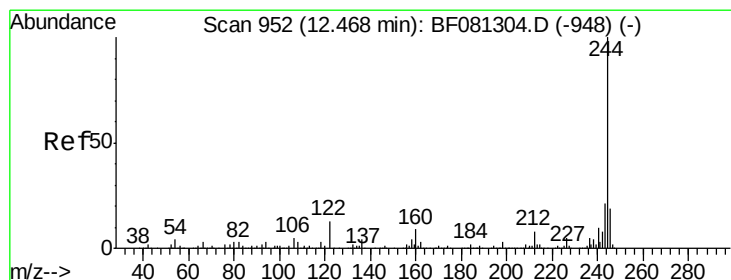
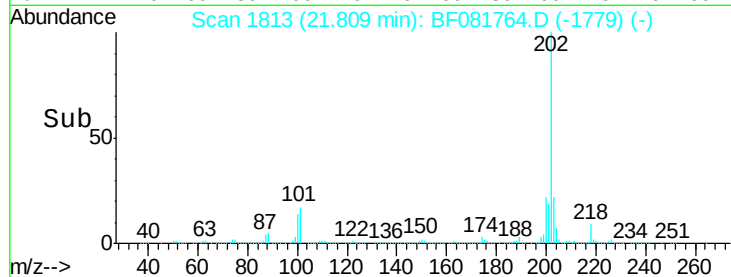
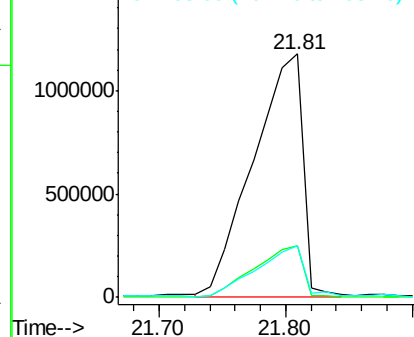
Tot Ion:	202	Resp:	3199962
Ion	Ratio	Lower	Upper
202	100		
200	21.3	15.0	22.4
203	21.1	14.1	21.1#

Manual Integrations
APPROVED

MMDadoda
9/23/2015 4:34:24 PM



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: 72.65 ng

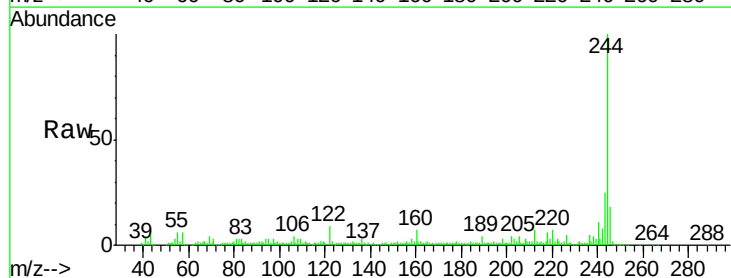
RT: 22.08 min Scan# 1837

Delta R.T. 0.03 min

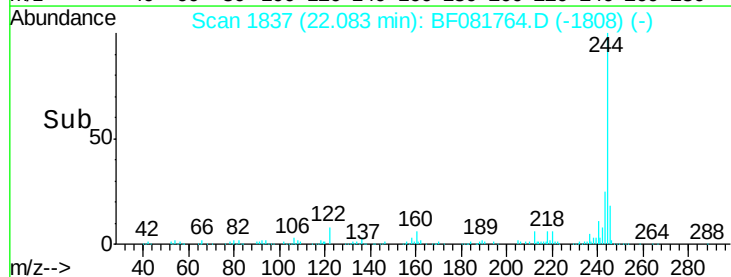
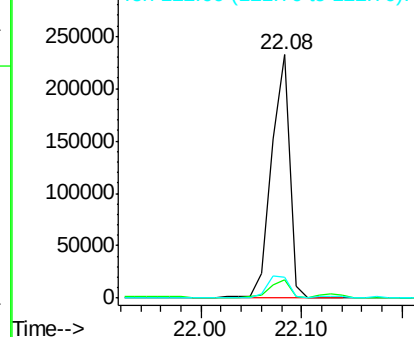
Lab File: BF081764.D

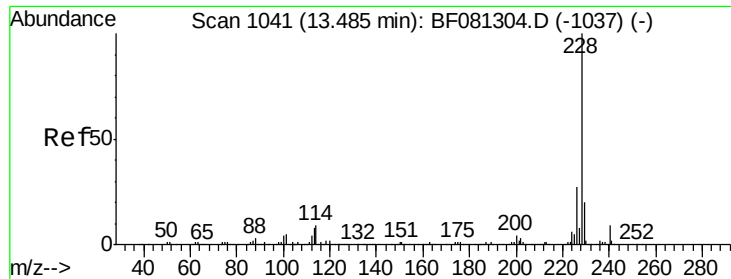
Acq: 23 Sep 2015 10:05

Tgt Ion:	244	Resp:	292095
Ion	Ratio	Lower	Upper
244	100		
212	7.5	4.3	6.5#
122	8.7	17.4	26.2#



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





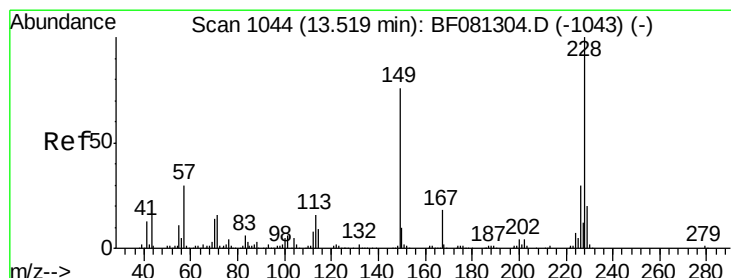
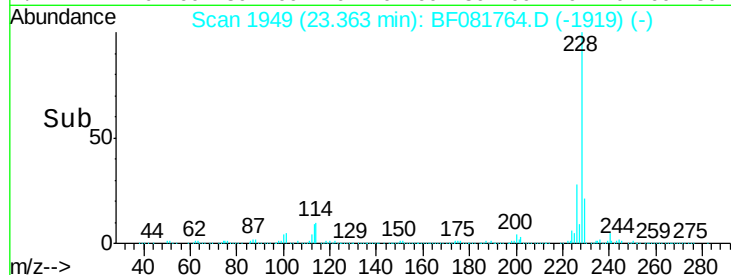
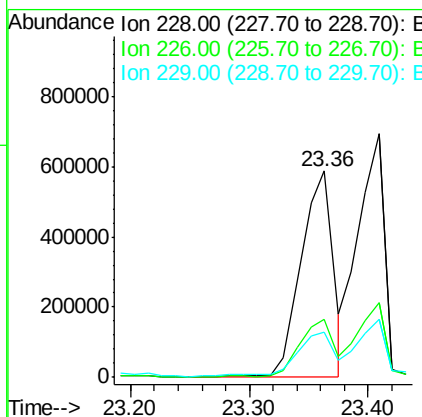
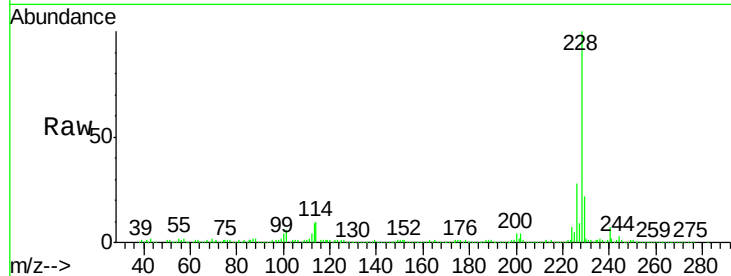
#80
Benzo(a)anthracene
Concen: 183.42 ng
RT: 23.36 min Scan# 1949
Delta R.T. 0.05 min
Lab File: BF081764.D
Acq: 23 Sep 2015 10:05

Instrument :
BNA_F
ClientSampleId :
MGP205-10-12

Tot Ion:228 Resp: 1093203
Ion Ratio Lower Upper
228 100
226 28.0 20.0 30.0
229 21.9 15.4 23.2

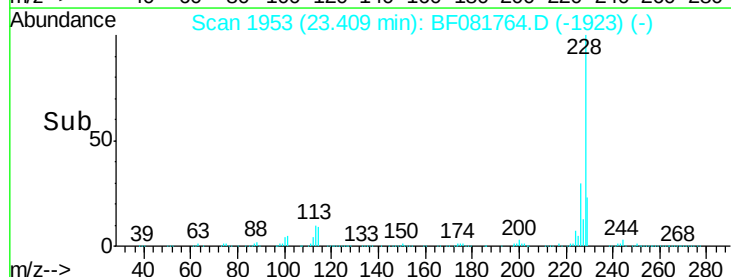
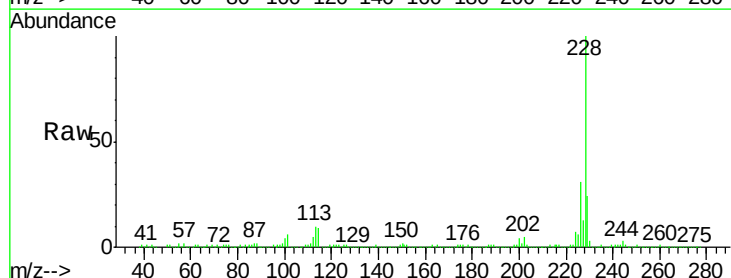
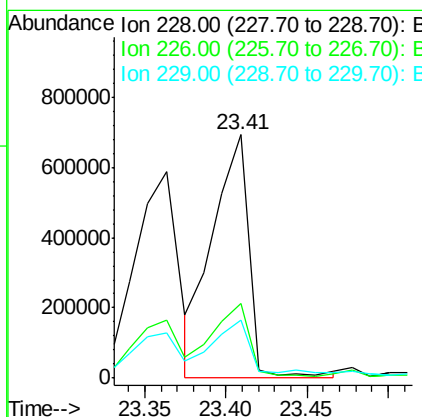
Manual Integrations
APPROVED

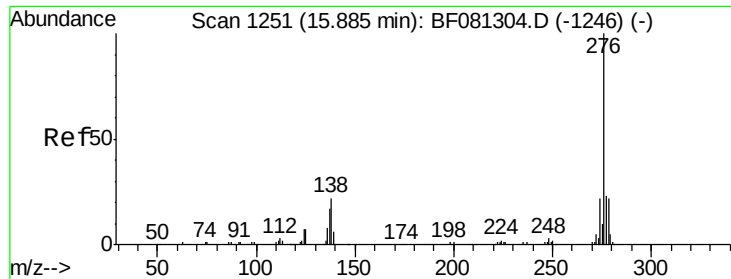
MMDadoda
9/23/2015 4:34:24 PM



#82
Chrysene
Concen: 203.75 ng m
RT: 23.41 min Scan# 1953
Delta R.T. 0.05 min
Lab File: BF081764.D
Acq: 23 Sep 2015 10:05

Tgt Ion:228 Resp: 1088588
Ion Ratio Lower Upper
228 100
226 30.7 21.0 31.4
229 24.0 15.6 23.4#





#85

Indeno(1,2,3-cd)pyrene

Concen: 73.61 ng

RT: 25.84 min Scan# 2166

Delta R.T. 0.05 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Instrument :

BNA_F

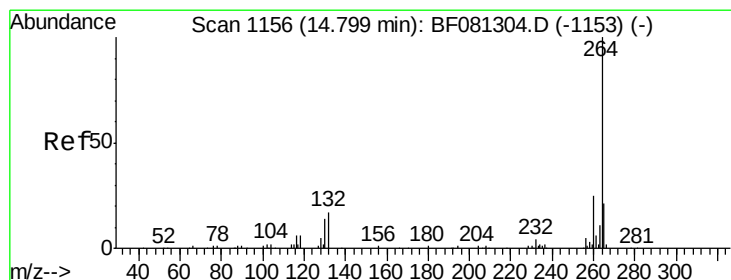
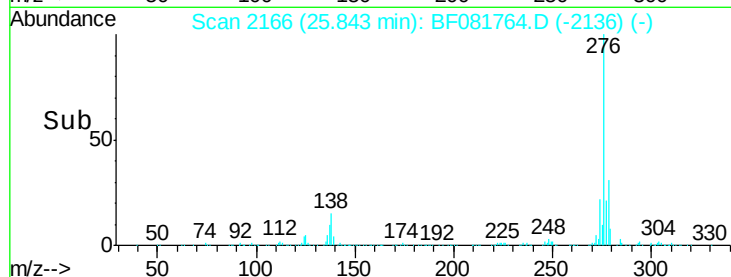
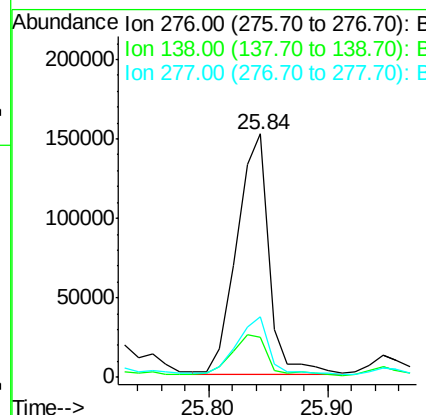
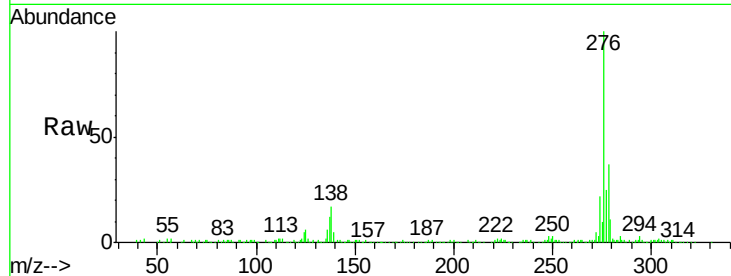
ClientSampleId :

MGP205-10-12

Tot Ion:	276	Resp:	288537
Ion Ratio	Lower	Upper	
276	100		
138	19.6	25.7	38.5#
277	24.7	15.6	23.4#

Manual Integrations
APPROVED

MMDadoda
9/23/2015 4:34:24 PM



#86

Perylene-d12

Concen: 20.00 ng

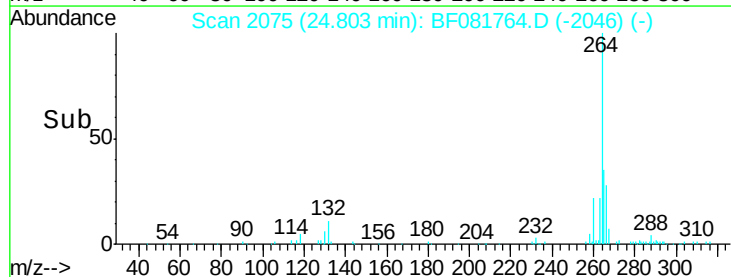
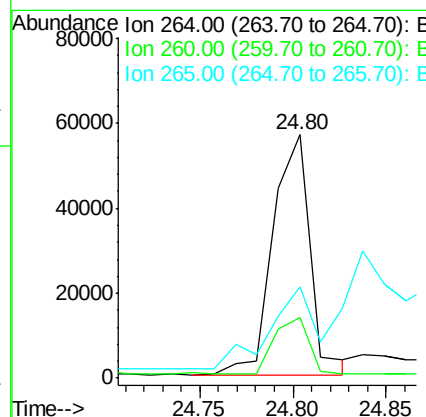
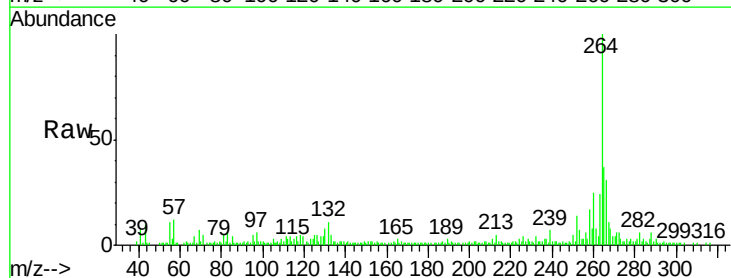
RT: 24.80 min Scan# 2075

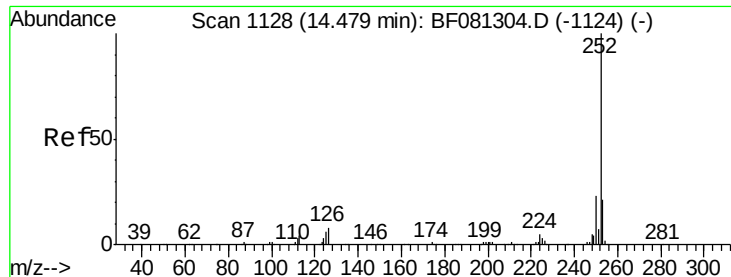
Delta R.T. 0.03 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Tgt Ion:	264	Resp:	78374
Ion Ratio	Lower	Upper	
264	100		
260	24.7	16.7	25.1
265	37.4	17.2	25.8#





#87

Benzo(b)fluoranthene

Concen: 123.74 ng m

RT: 24.47 min Scan# 2046

Delta R.T. 0.05 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Instrument :

BNA_F

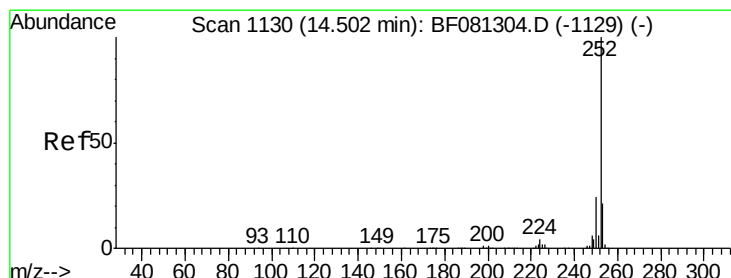
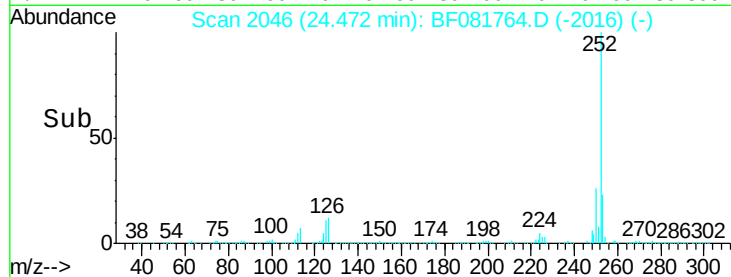
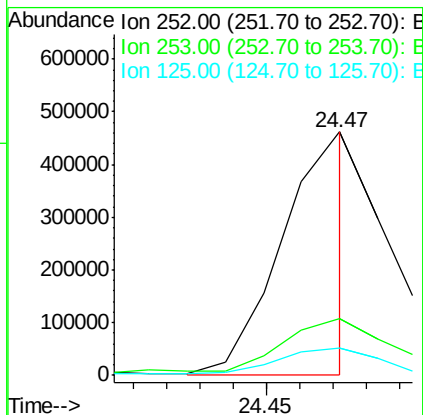
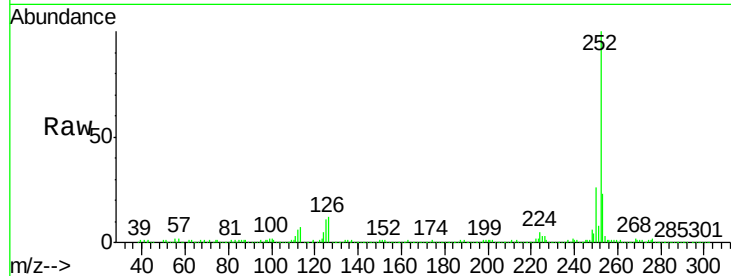
ClientSampleId :

MGP205-10-12

Tot Ion:	252	Resp:	692383
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.5	26.3
125	11.2	17.1	25.7#

Manual Integrations
APPROVED

MMDadoda
9/23/2015 4:34:24 PM



#88

Benzo(k)fluoranthene

Concen: 66.38 ng m

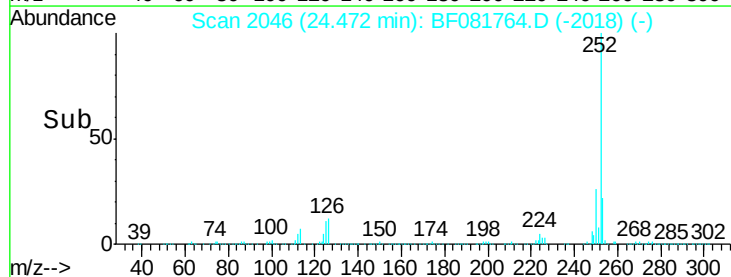
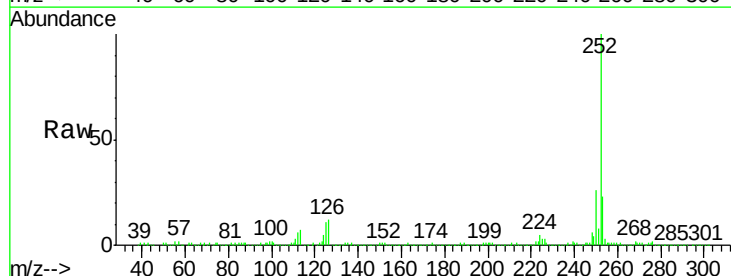
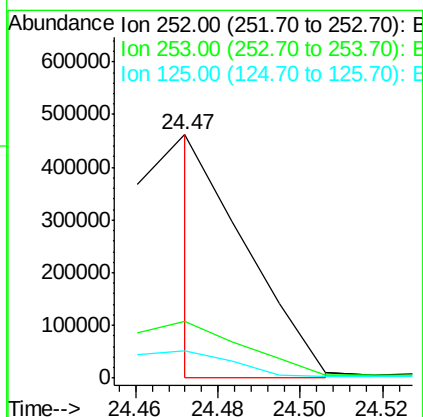
RT: 24.47 min Scan# 2046

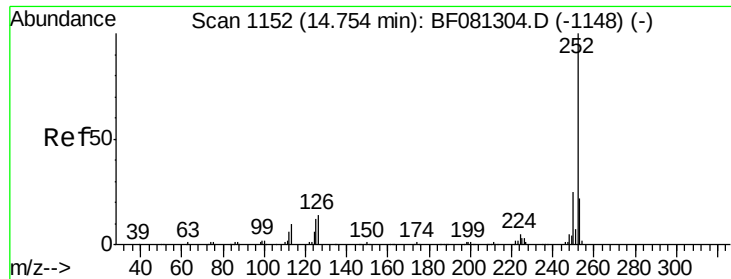
Delta R.T. 0.02 min

Lab File: BF081764.D

Acq: 23 Sep 2015 10:05

Tgt Ion:	252	Resp:	308175
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.0	25.4
125	11.2	16.0	24.0#





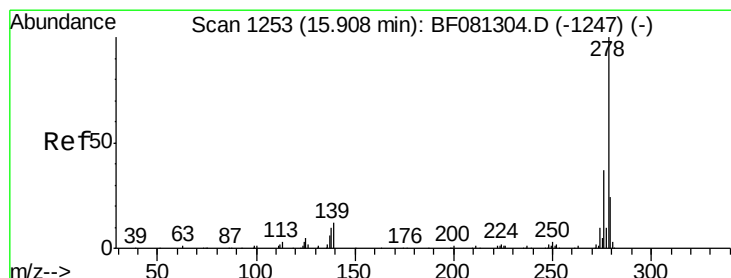
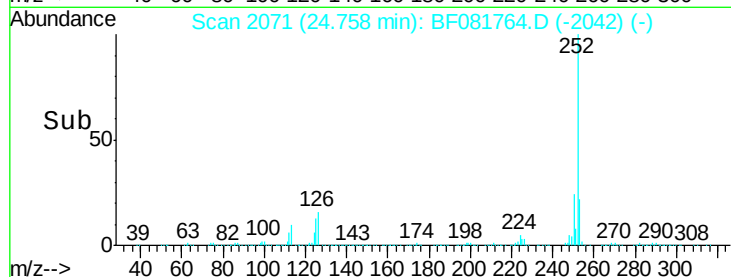
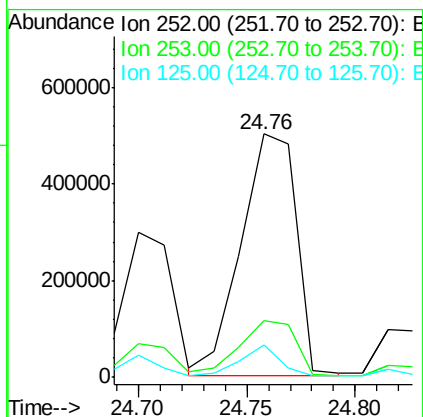
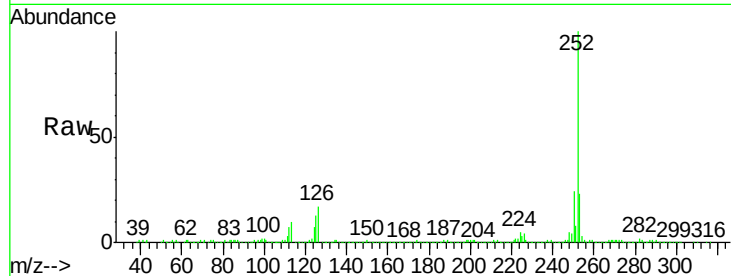
#89
Benzo(a)pyrene
Concen: 187.01 ng
RT: 24.76 min Scan# 2071
Delta R.T. 0.03 min
Lab File: BF081764.D
Acq: 23 Sep 2015 10:05

Instrument :
BNA_F
ClientSampleId :
MGP205-10-12

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.2	25.8
125	13.2	18.0	27.0

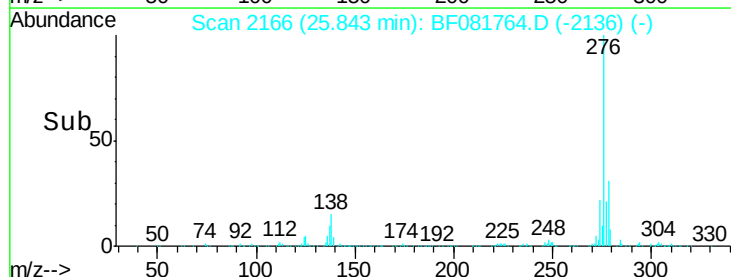
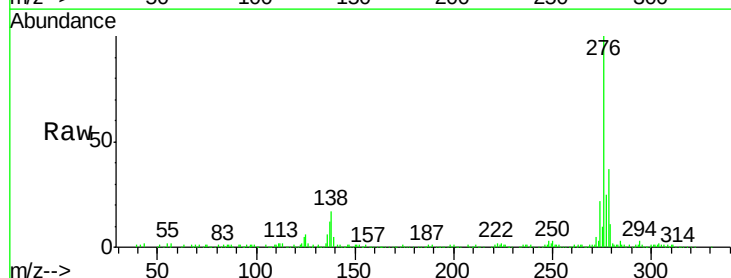
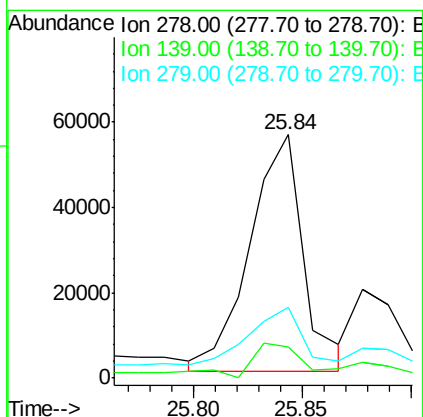
Manual Integrations
APPROVED

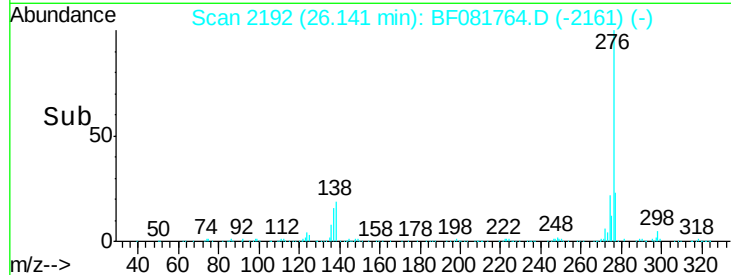
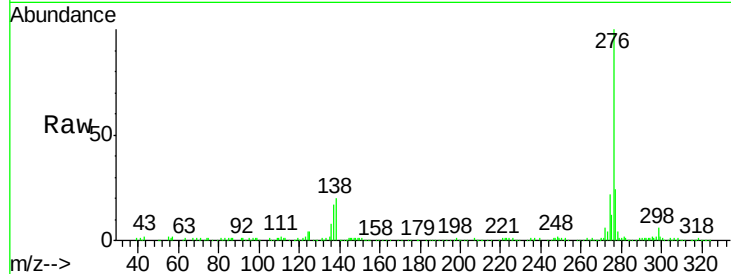
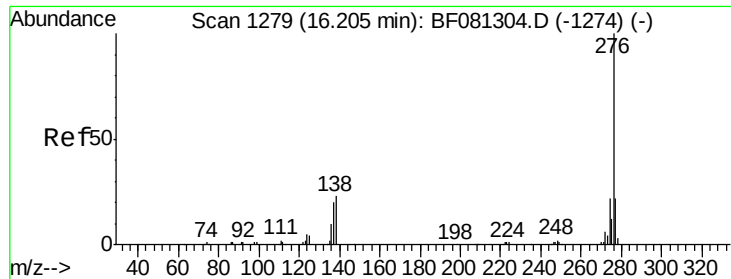
MMDadoda
9/23/2015 4:34:24 PM



#90
Dibenzo(a,h)anthracene
Concen: 26.00 ng
RT: 25.84 min Scan# 2166
Delta R.T. 0.05 min
Lab File: BF081764.D
Acq: 23 Sep 2015 10:05

Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.0	26.3	39.5
279	28.9	18.2	27.4





#91
 Benzo(a,h,i)perylene
 Concen: 78.79 ng
 RT: 26.14 min Scan# 2192
 Delta R.T. 0.06 min
 Lab File: BF081764.D
 Acq: 23 Sep 2015 10:05

Instrument :
 BNA_F
 ClientSampleId :
 MGP205-10-12

Tot Ion	Ratio	Resp Lower	Resp Upper
276	100		
277	24.4	17.8	26.6
138	20.3	34.6	51.8

Manual Integrations
 APPROVED

MMDadoda
 9/23/2015 4:34:24 PM

