

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
 Data File : BF083542.D
 Acq On : 7 Dec 2015 4:17
 Operator : UM/IZ
 Sample : G4614-07
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S6-14.5

Manual Integrations
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 12/7/2015 6:33:31 PM

Quant Time: Dec 07 06:51:17 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 05 04:12:46 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.73	152	200843	20.00	ng	-0.03
21) Naphthalene-d8	7.63	136	768007	20.00	ng	-0.05
38) Acenaphthene-d10	10.42	164	367428	20.00	ng	-0.05
63) Phenanthrene-d10	12.82	188	640063	20.00	ng	-0.03
75) Chrysene-d12	17.01	240	431268	20.00	ng	-0.03
86) Perylene-d12	18.65	264	418493	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.02	112	1758998	132.87	ng	-0.01
7) Phenol-d6	5.30	99	2281653	125.09	ng	-0.02
23) Nitrobenzene-d5	6.57	82	1538803	93.66	ng	-0.03
41) 2,4,6-Tribromophenol	11.71	330	427512	126.13	ng	-0.05
44) 2-Fluorobiphenyl	9.38	172	2066097	76.27	ng	-0.05
78) Terphenyl-d14	15.46	244	1531825	79.04	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	10.19	152	103509	2.57	ng	99
49) Dimethylphthalate	10.06	163	601976	20.82	ng	99
51) Acenaphthene	10.48	154	80611	3.48	ng	97
54) Dibenzofuran	10.76	168	124721	3.88	ng	99
57) Fluorene	11.31	166	180271	6.45	ng	99
70) Phenanthrene	12.87	178	2263506	60.76	ng	98
71) Anthracene	12.93	178	481932	12.68	ng	98
72) Carbazole	13.23	167	178654	5.48	ng	99
74) Fluoranthene	14.80	202	2644112	71.61	ng	98
77) Pyrene	15.14	202	2131049m	66.06	ng	
80) Benzo(a)anthracene	17.00	228	1042325	41.31	ng	96
82) Chrysene	17.05	228	892076	35.49	ng	99
85) Indeno(1,2,3-cd)pyrene	19.88	276	448122	20.80	ng	# 100
87) Benzo(b)fluoranthene	18.27	252	971734m	41.35	ng	
88) Benzo(k)fluoranthene	18.28	252	428676m	17.81	ng	
89) Benzo(a)pyrene	18.59	252	747928	32.72	ng	98
90) Dibenzo(a,h)anthracene	19.88	278	119673m	5.44	ng	
91) Benzo(g,h,i)perylene	20.24	276	392975	17.73	ng	97

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

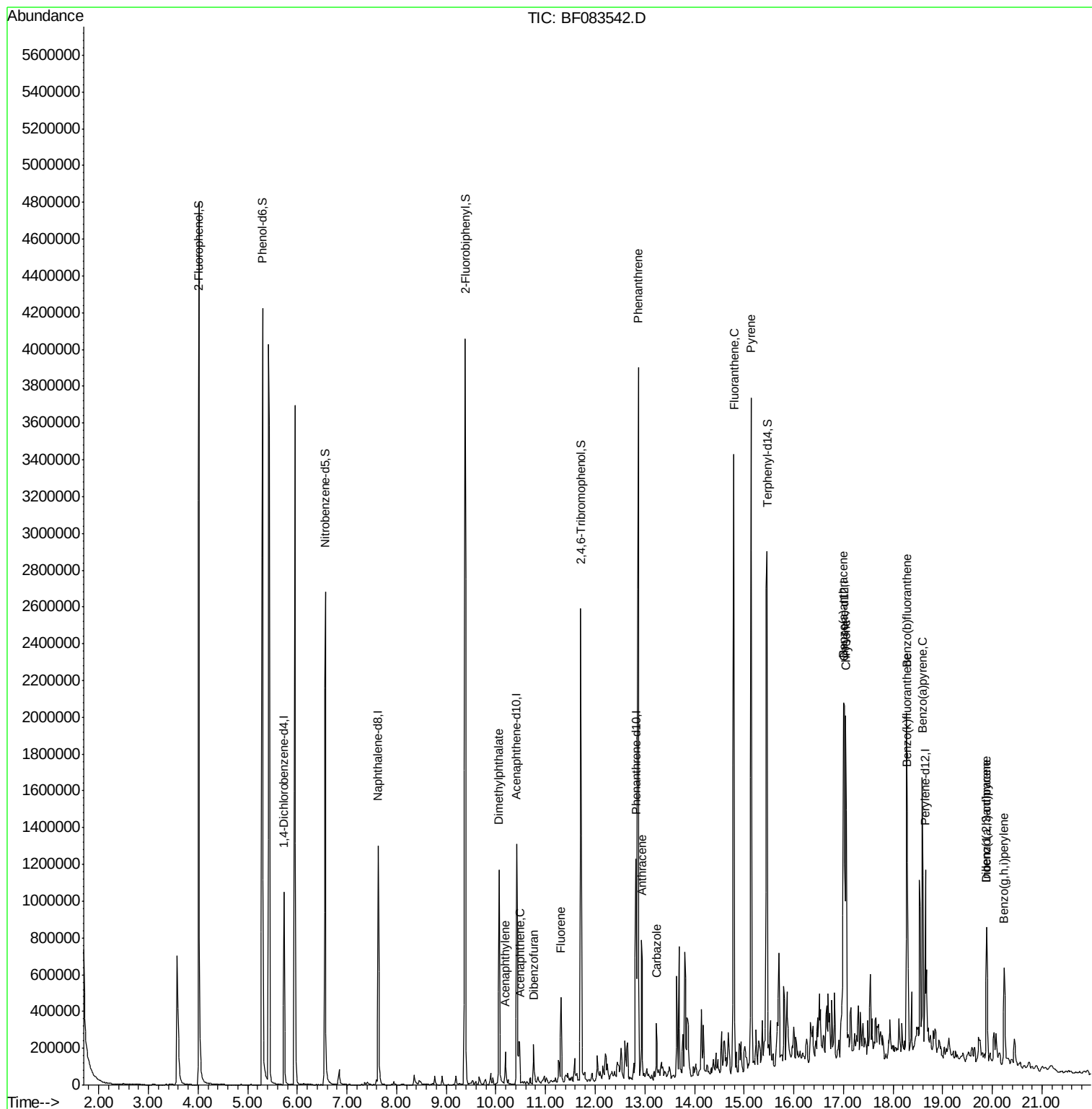
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120615\
Data File : BF083542.D
Acq On : 7 Dec 2015 4:17
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ALS Vial : 16 Sample Multiplier: 1

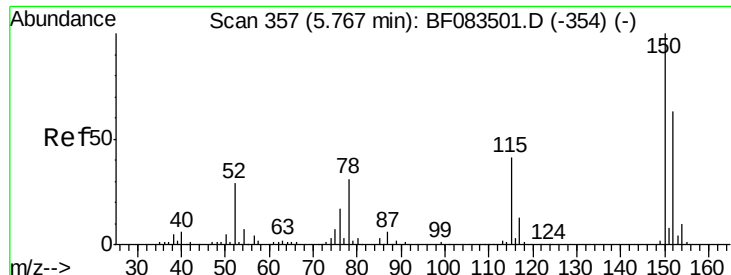
Instrument :
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ClientSampleId :
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Quant Time: Dec 07 06:51:17 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120415.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

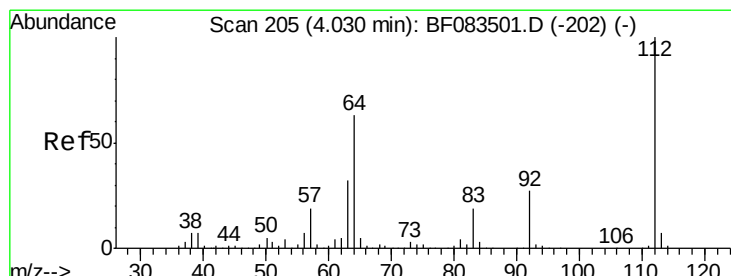
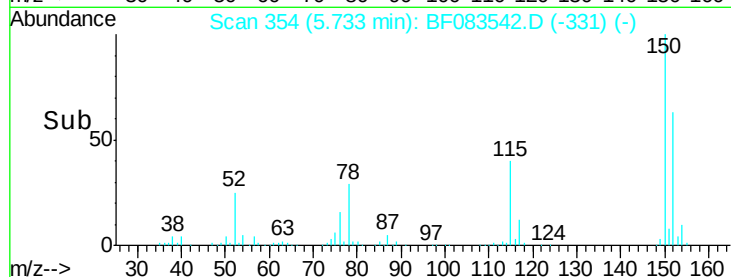
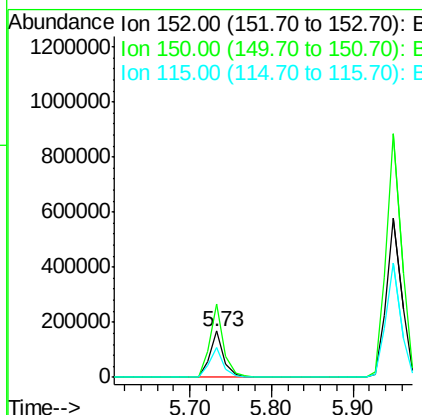
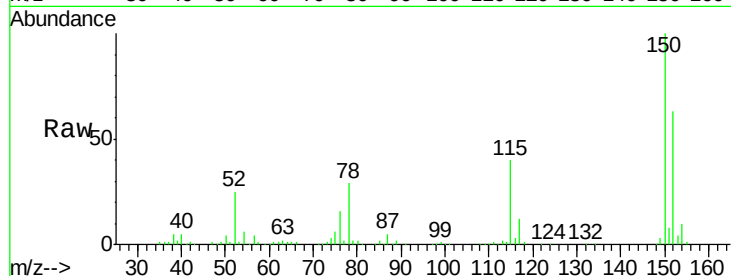
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.73 min Scan# 354
Delta R.T. -0.03 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Instrument :
BNA_F
ClientSampleId :
S6-14.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	126.5	189.7
115	63.7	52.3	78.5

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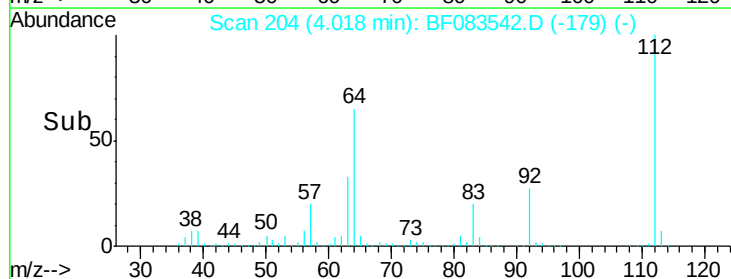
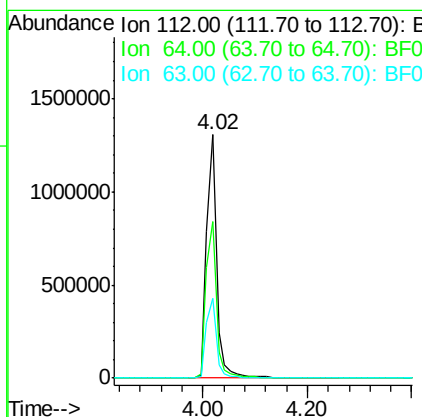
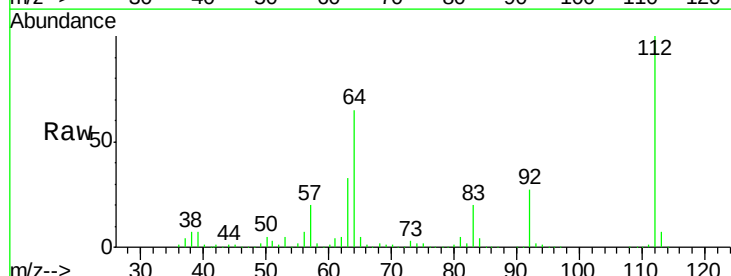
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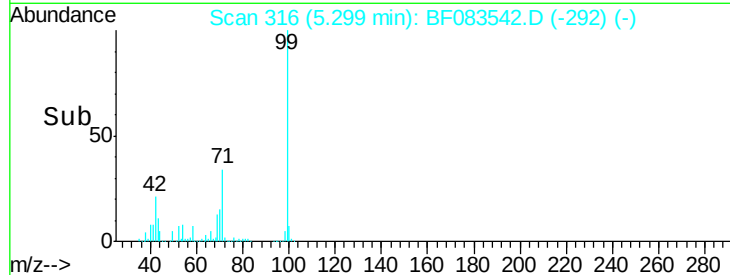
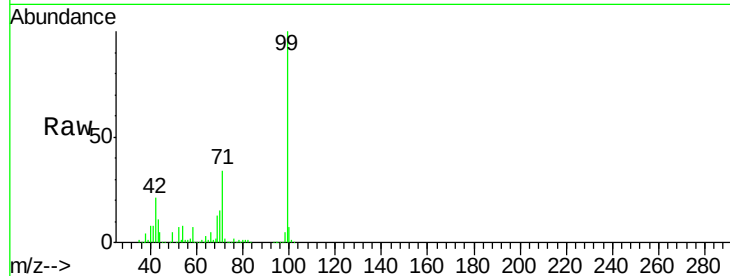
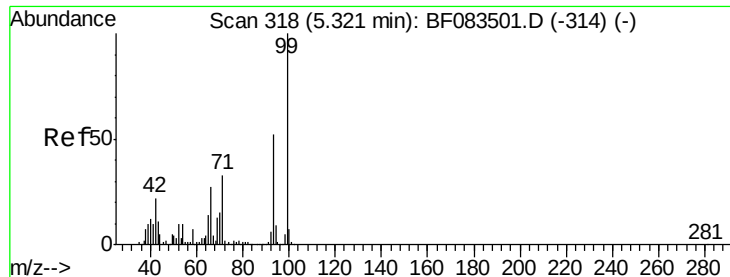


#5

2-Fluorophenol
Concen: 132.87 ng
RT: 4.02 min Scan# 204
Delta R.T. -0.01 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.6	50.5	75.7
63	33.0	25.8	38.6





#7

Phenol-d6

Concen: 125.09 ng

RT: 5.30 min Scan# 316

Delta R.T. -0.02 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Tot Ion: 99 Resp: 2281653

Ion Ratio Lower Upper

99 100

42 21.3 17.3 25.9

71 34.2 26.6 40.0

Instrument :

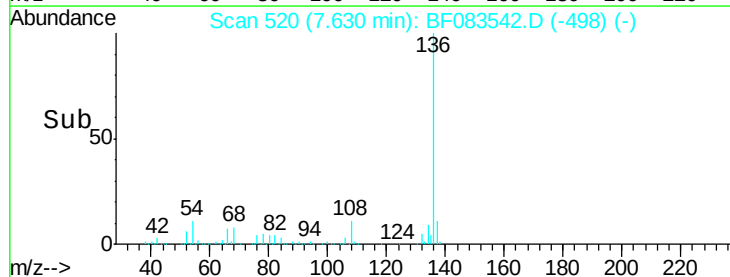
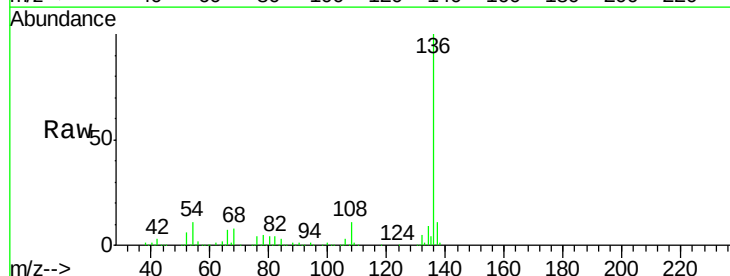
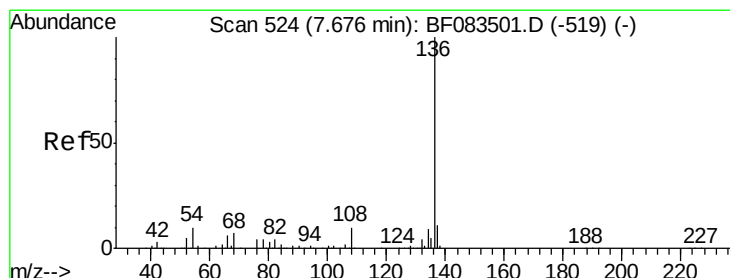
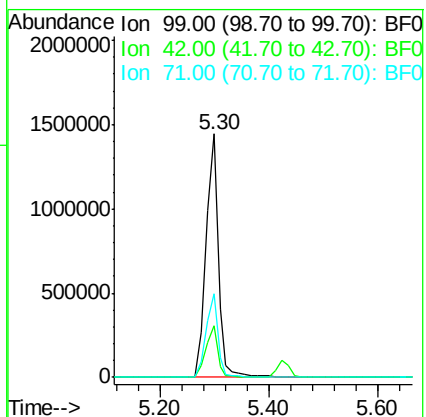
BNA_F

ClientSampleId :

S6-14.5

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.63 min Scan# 520

Delta R.T. -0.05 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Tgt Ion: 136 Resp: 768007

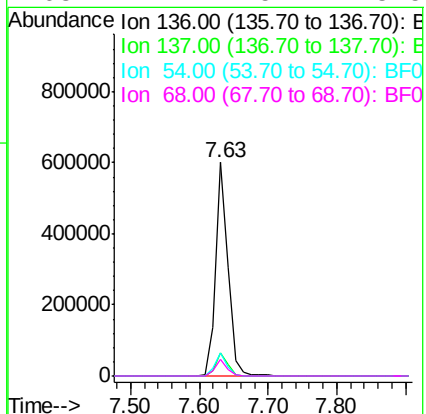
Ion Ratio Lower Upper

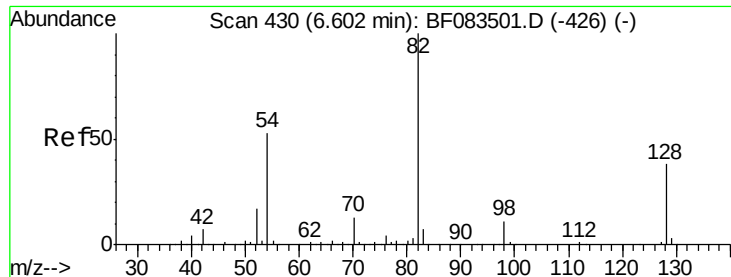
136 100

137 10.9 8.7 13.1

54 10.7 7.8 11.6

68 7.7 5.7 8.5





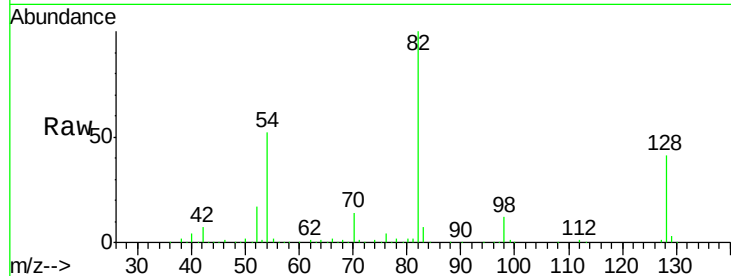
#23
 Nitrobenzene-d5
 Concen: 93.66 ng
 RT: 6.57 min Scan# 427
 Delta R.T. -0.03 min
 Lab File: BF083542.D
 Acq: 7 Dec 2015 4:17

Instrument :
 BNA_F
 ClientSampleId :
 S6-14.5

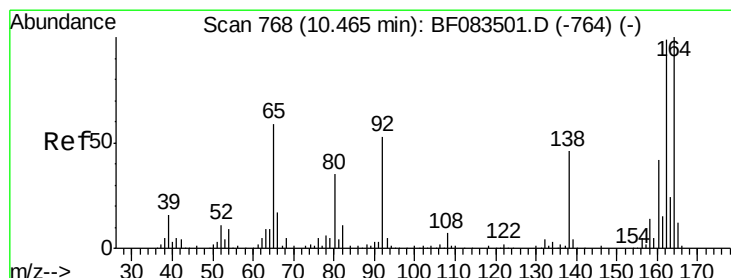
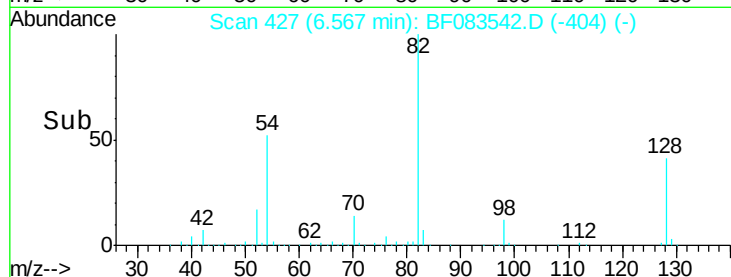
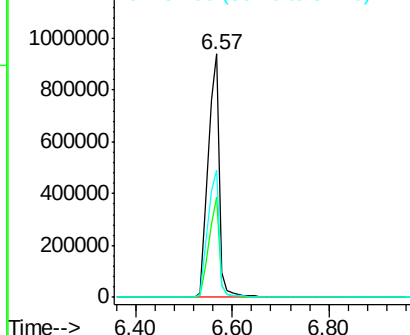
Tot Ion	82	Resp	1538803
Ion Ratio	100	Lower	Upper
82	100		
128	41.0	30.7	46.1
54	52.0	42.5	63.7

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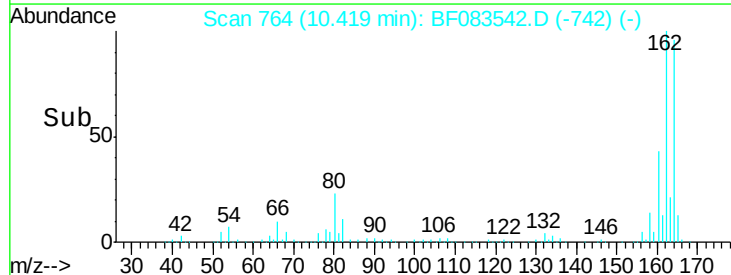
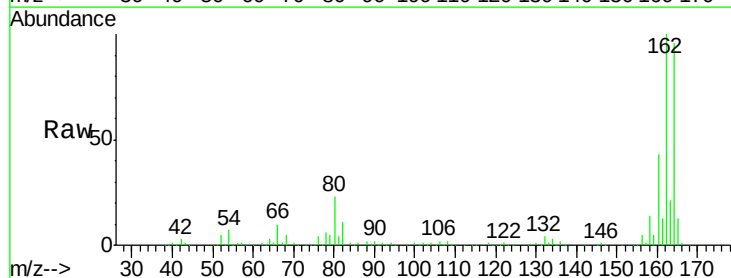
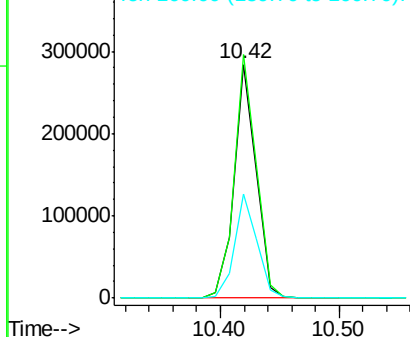
Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

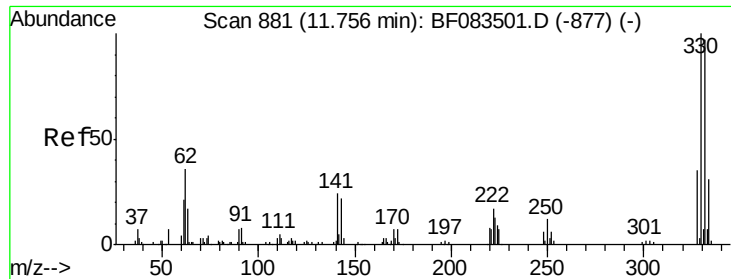


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.42 min Scan# 764
 Delta R.T. -0.05 min
 Lab File: BF083542.D
 Acq: 7 Dec 2015 4:17

Tgt Ion	164	Resp	367428
Ion Ratio	100	Lower	Upper
164	100		
162	104.1	78.8	118.2
160	44.3	33.4	50.2

Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E





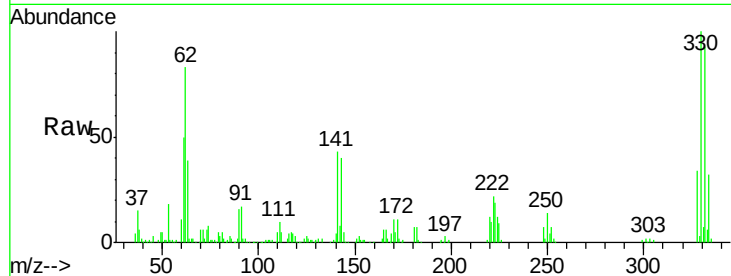
#41
 2,4,6-Tribromophenol
 Concen: 126.13 ng
 RT: 11.71 min Scan# 877
 Delta R.T. -0.05 min
 Lab File: BF083542.D
 Acq: 7 Dec 2015 4:17

Instrument :
 BNA_F
 ClientSampleId :
 S6-14.5

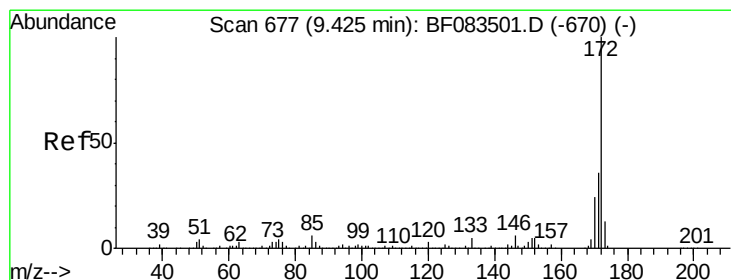
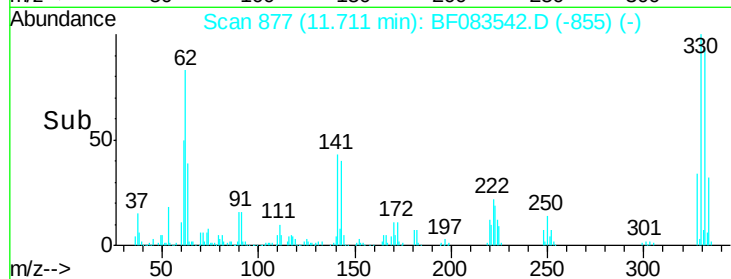
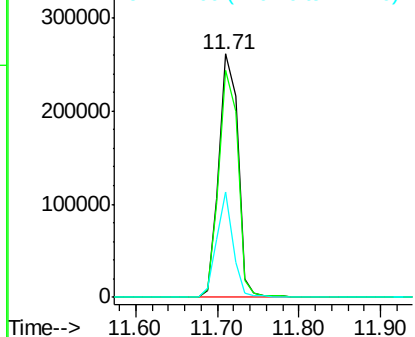
Tot Ion	Ratio	Resp Lower	Upper
330	100		
332	93.8	0.0	0.0#
141	37.7	0.0	0.0#

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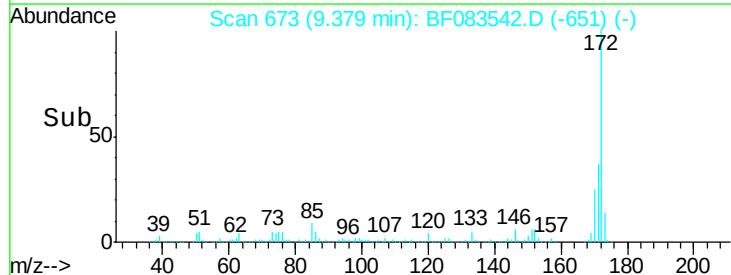
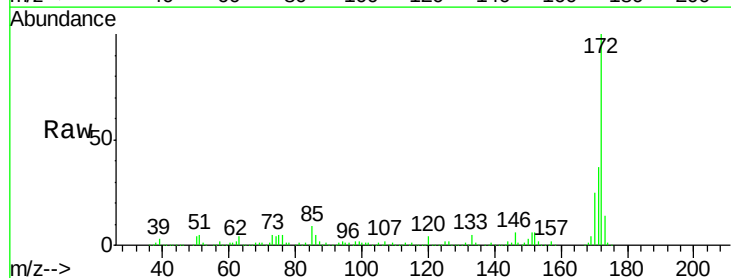
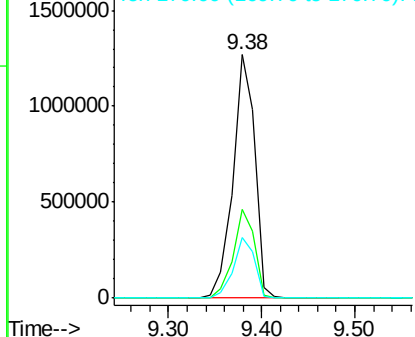
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

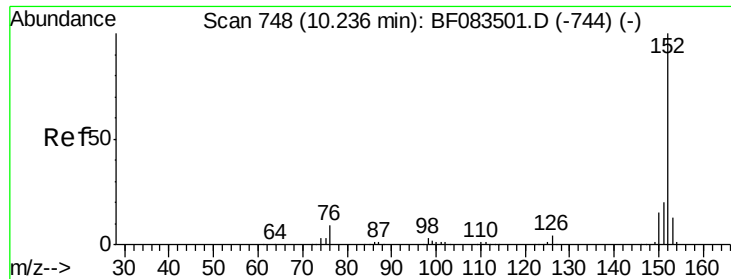


#44
 2-Fluorobiphenyl
 Concen: 76.27 ng
 RT: 9.38 min Scan# 673
 Delta R.T. -0.05 min
 Lab File: BF083542.D
 Acq: 7 Dec 2015 4:17

Tgt Ion	Ratio	Resp Lower	Upper
172	100		
171	36.5	28.6	42.8
170	24.8	19.4	29.0

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





#48

Acenaphthylene

Concen: 2.57 ng

RT: 10.19 min Scan# 744

Delta R.T. -0.05 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Instrument :

BNA_F

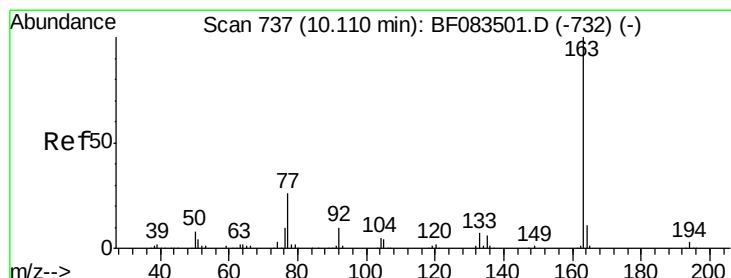
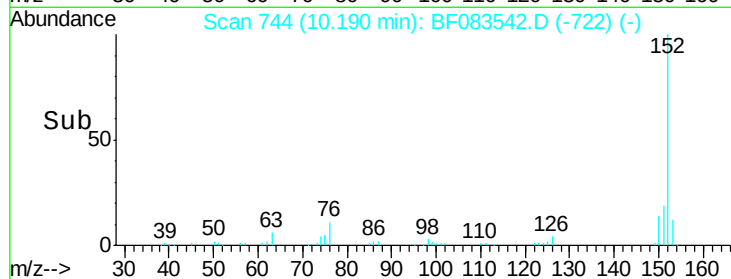
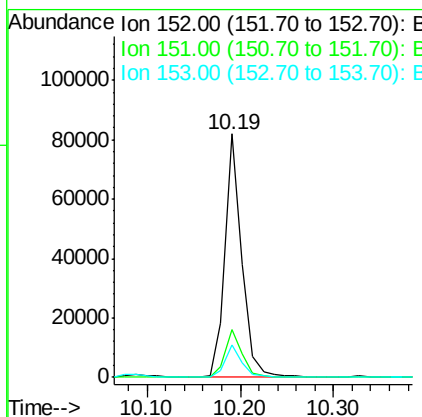
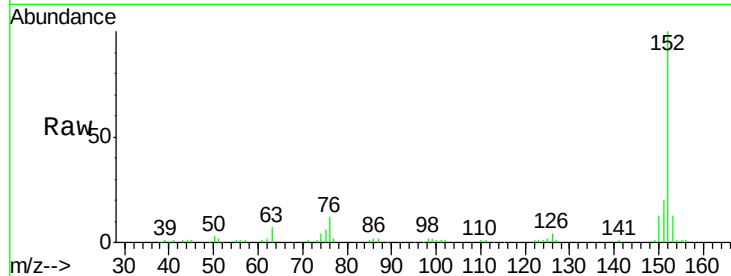
ClientSampleId :

S6-14.5

Tot Ion:	152	Resp:	103509
Ion Ratio	Lower	Upper	
152	100		
151	19.6	16.3	24.5
153	13.3	10.8	16.2

Manual Integrations
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#49

Dimethylphthalate

Concen: 20.82 ng

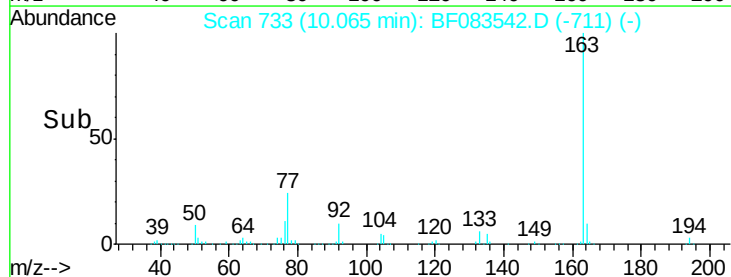
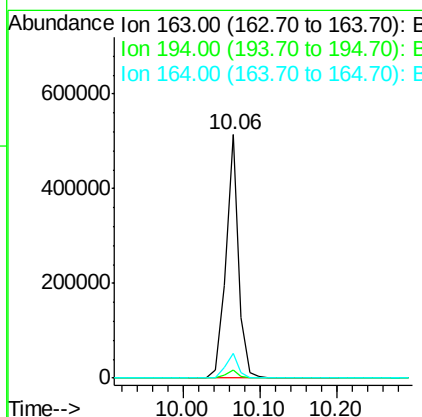
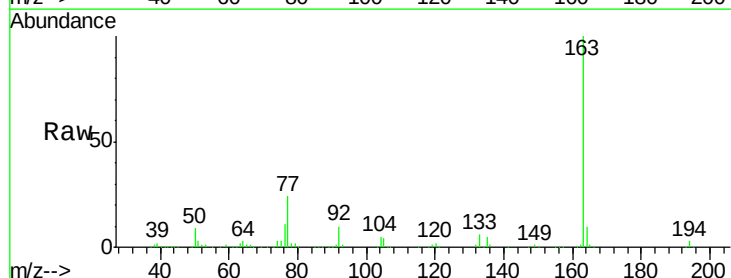
RT: 10.06 min Scan# 733

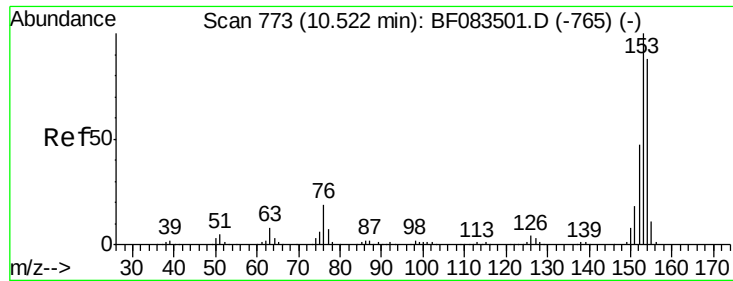
Delta R.T. -0.05 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Tgt Ion:	163	Resp:	601976
Ion Ratio	Lower	Upper	
163	100		
194	3.3	2.8	4.2
164	10.3	8.6	13.0





#51

Acenaphthene

Concen: 3.48 ng

RT: 10.48 min Scan# 769

Delta R.T. -0.05 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Instrument :

BNA_F

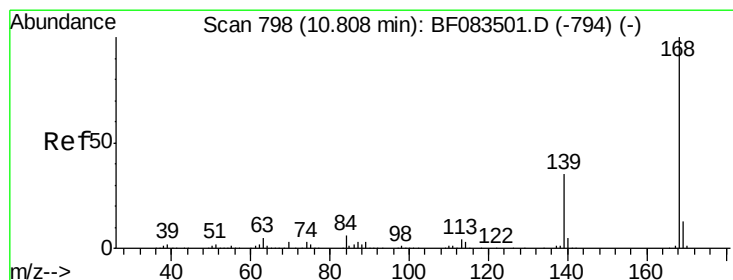
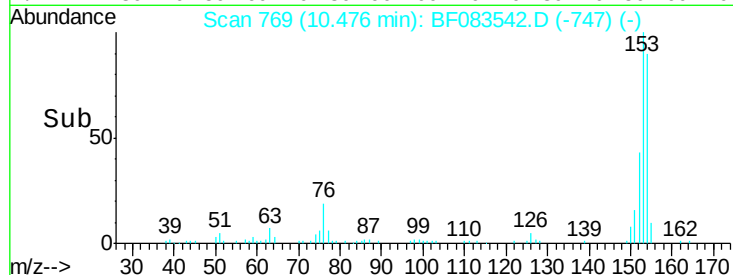
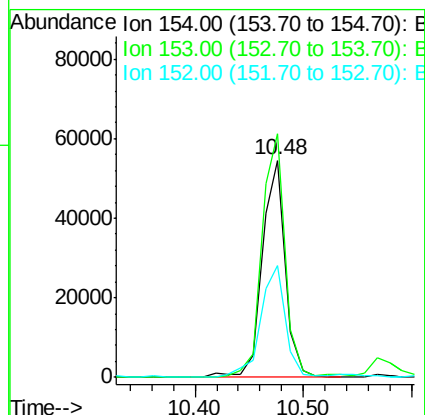
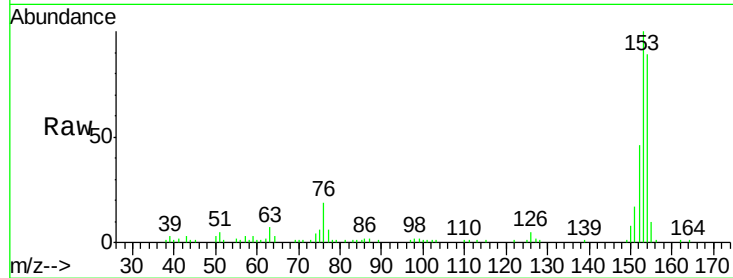
ClientSampleId :

S6-14.5

Tot Ion:	154	Resp:	80611
Ion Ratio	Lower	Upper	
154	100		
153	112.3	91.4	137.0
152	51.4	43.4	65.2

Manual Integrations
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#54

Dibenzofuran

Concen: 3.88 ng

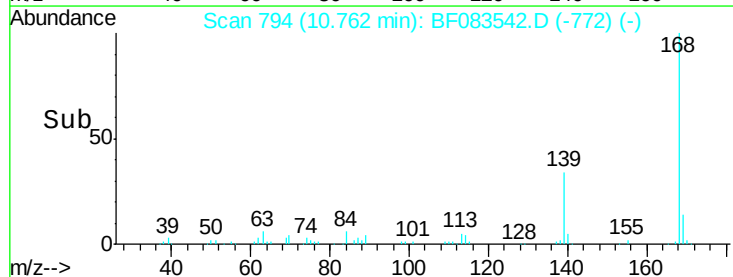
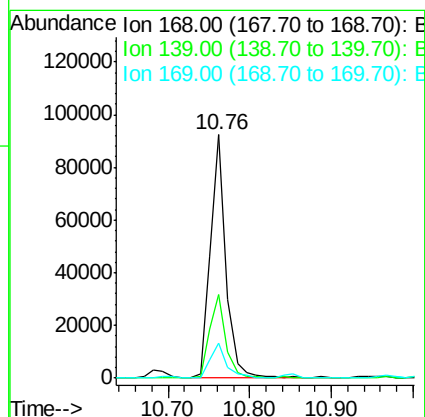
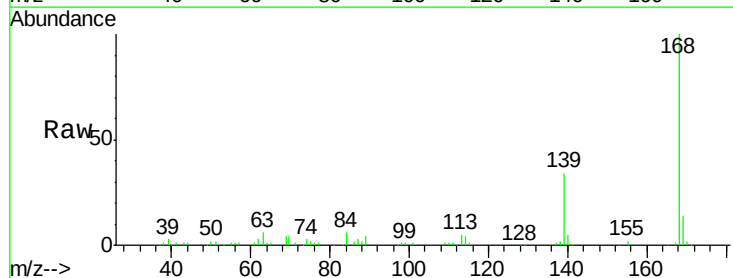
RT: 10.76 min Scan# 794

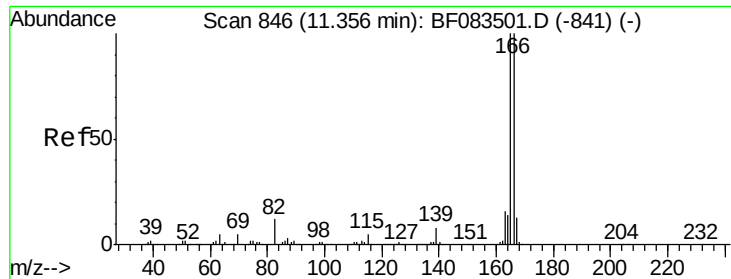
Delta R.T. -0.05 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Tgt Ion:	168	Resp:	124721
Ion Ratio	Lower	Upper	
168	100		
139	34.5	28.0	42.0
169	14.2	10.8	16.2





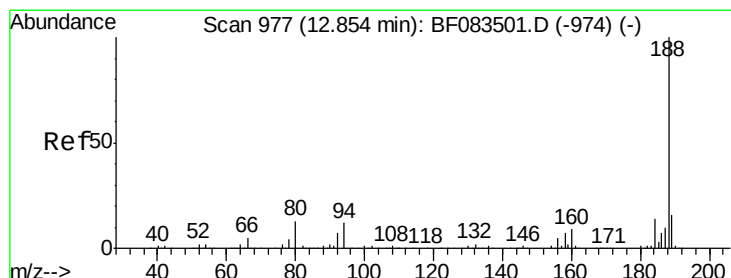
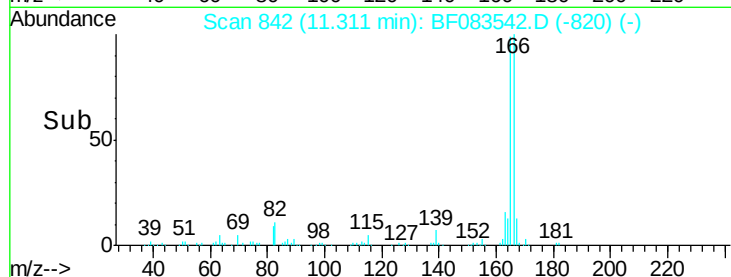
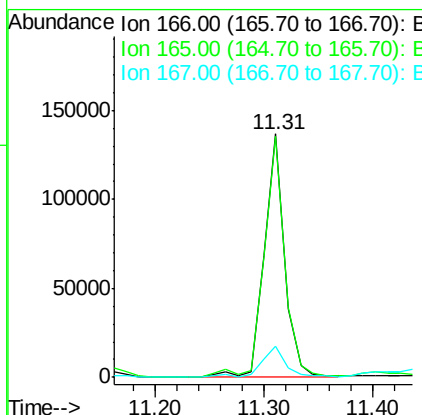
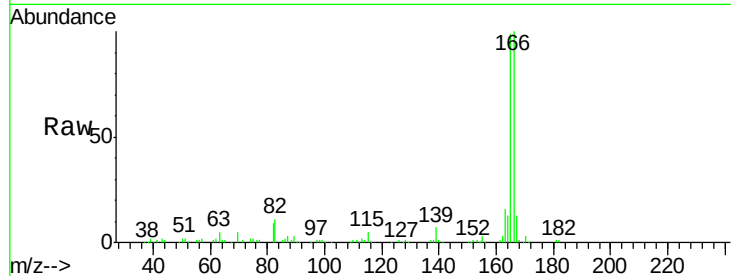
#57
 Fluorene
 Concen: 6.45 ng
 RT: 11.31 min Scan# 842
 Delta R.T. -0.05 min
 Lab File: BF083542.D
 Acq: 7 Dec 2015 4:17

Instrument :
 BNA_F
 ClientSampleId :
 S6-14.5

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.8	80.0	120.0
167	12.7	10.6	16.0

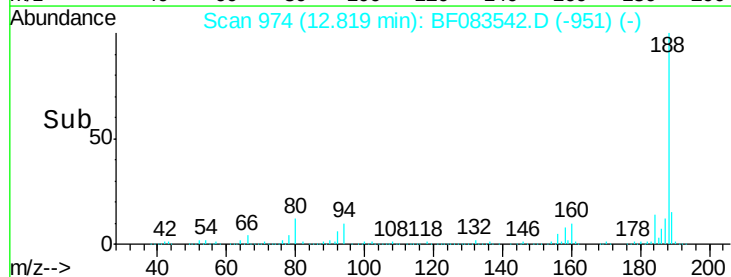
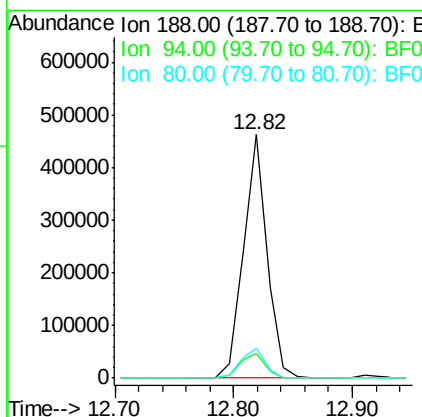
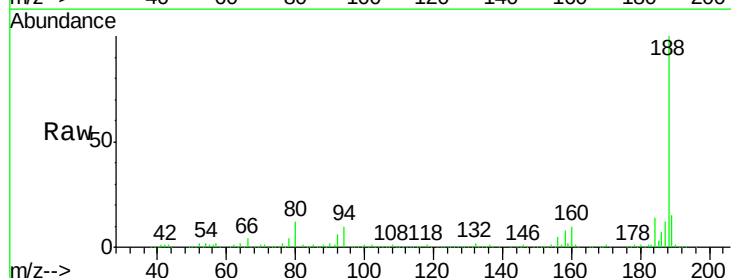
Manual Integrations
 APPROVED

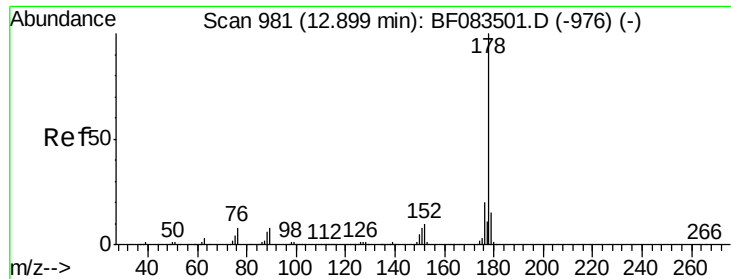
Mmdadoda
 12/7/2015 6:33:31 PM



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.82 min Scan# 974
 Delta R.T. -0.03 min
 Lab File: BF083542.D
 Acq: 7 Dec 2015 4:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	9.4	14.2
80	12.1	10.6	16.0





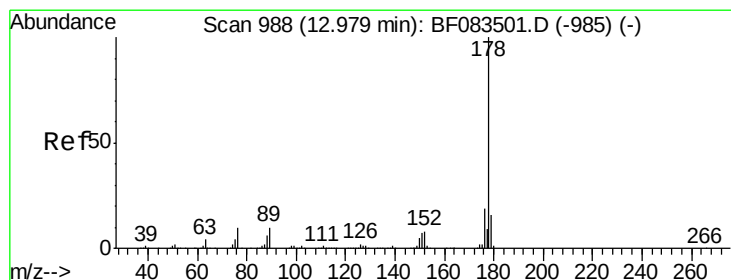
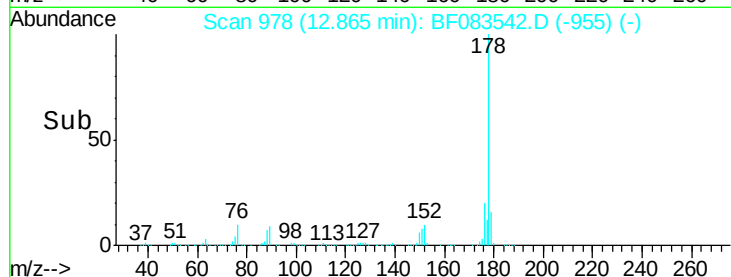
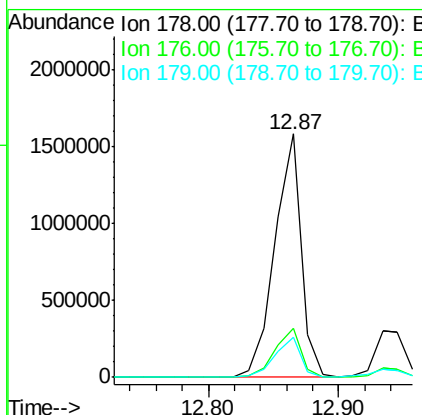
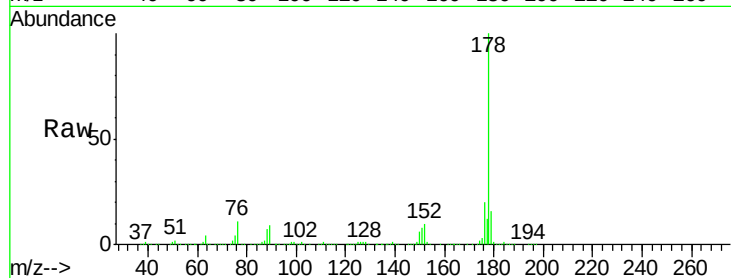
#70
Phenanthrene
Concen: 60.76 ng
RT: 12.87 min Scan# 978
Delta R.T. -0.03 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Instrument :
BNA_F
ClientSampleId :
S6-14.5

Tot Ion:178 Resp: 2263506
Ion Ratio Lower Upper
178 100
176 20.3 15.7 23.5
179 16.3 12.2 18.4

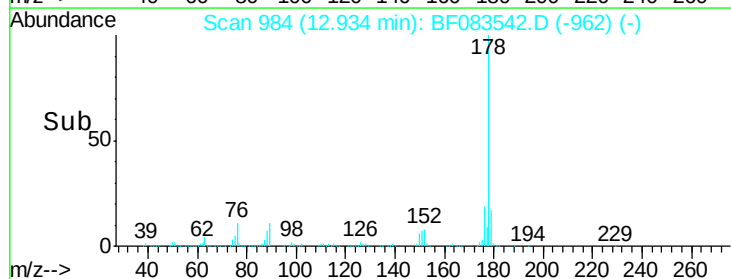
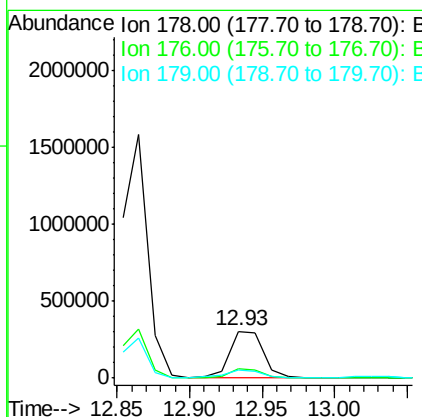
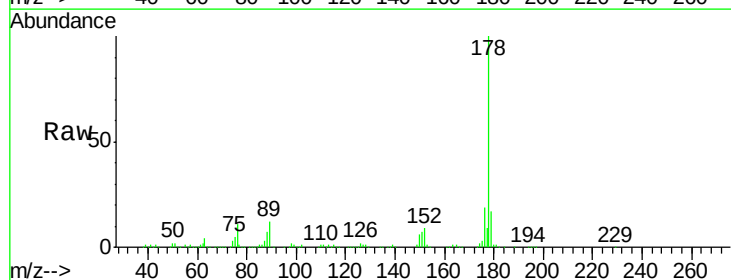
Manual Integrations
APPROVED

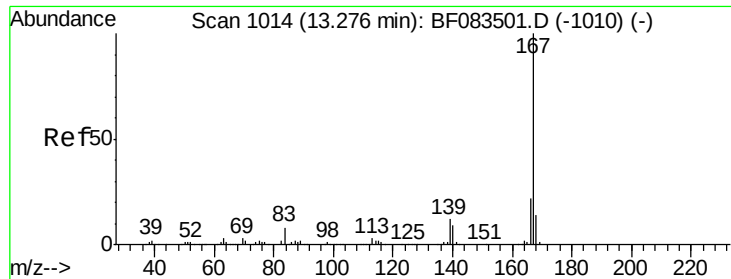
Mmdadoda
12/7/2015 6:33:31 PM



#71
Anthracene
Concen: 12.68 ng
RT: 12.93 min Scan# 984
Delta R.T. -0.05 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Tgt Ion:178 Resp: 481932
Ion Ratio Lower Upper
178 100
176 18.8 15.2 22.8
179 17.3 12.6 18.8





#72

Carbazole

Concen: 5.48 ng

RT: 13.23 min Scan# 1010

Delta R.T. -0.05 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Instrument :

BNA_F

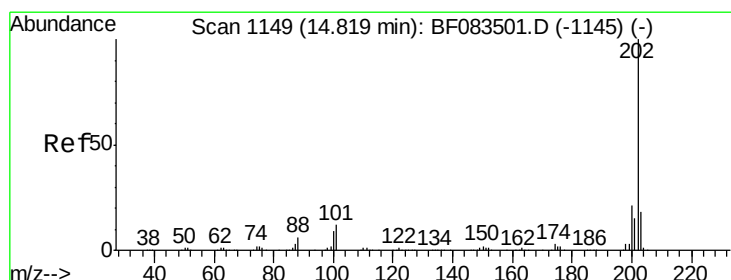
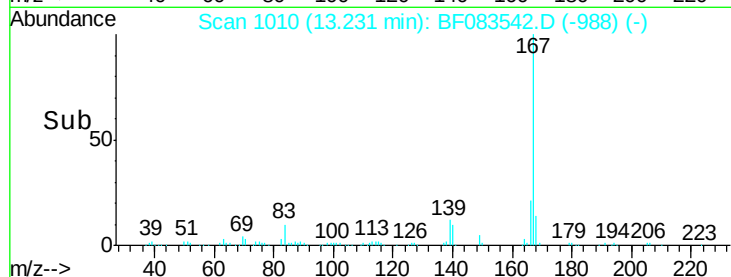
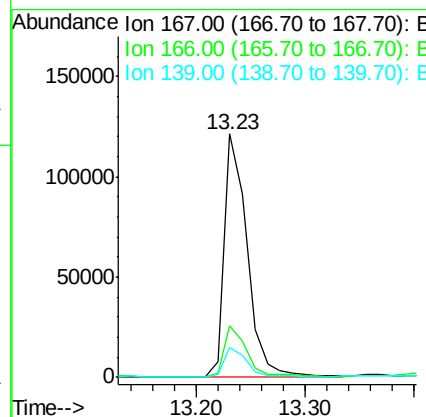
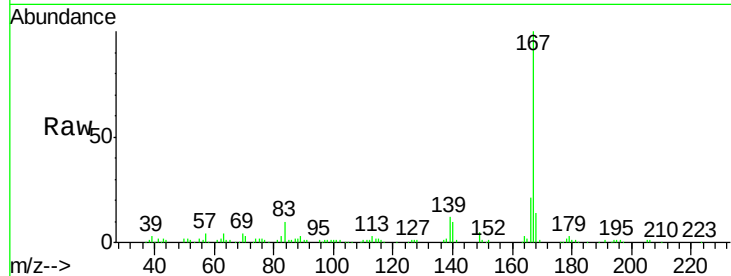
ClientSampleId :

S6-14.5

Tot Ion:	167	Resp:	178654
Ion Ratio	Lower	Upper	
167	100		
166	21.1	17.2	25.8
139	12.5	9.3	13.9

Manual Integrations
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12/7/2015 6:33:31 PM



#74

Fluoranthene

Concen: 71.61 ng

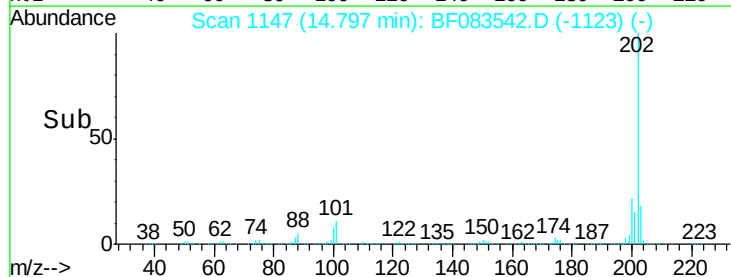
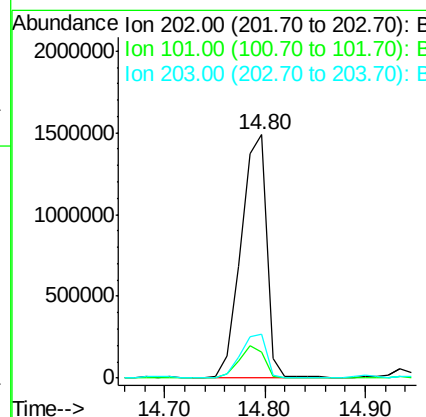
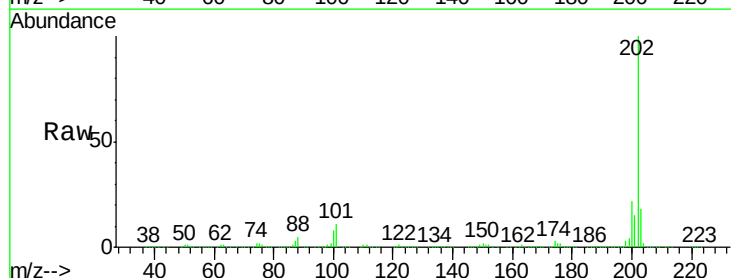
RT: 14.80 min Scan# 1147

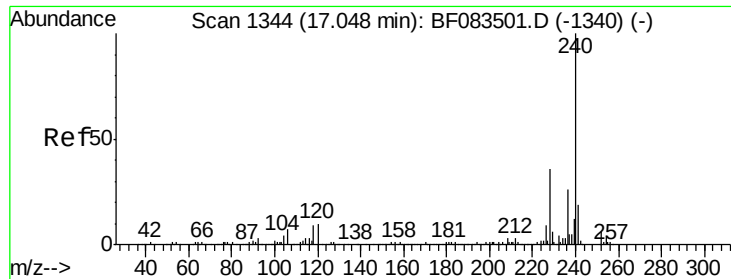
Delta R.T. -0.02 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Tgt Ion:	202	Resp:	2644112
Ion Ratio	Lower	Upper	
202	100		
101	10.6	0.0	31.5
203	18.2	0.0	37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 17.01 min Scan# 1341

Delta R.T. -0.03 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Instrument :

BNA_F

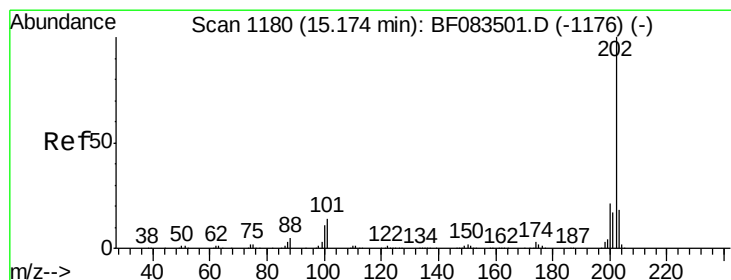
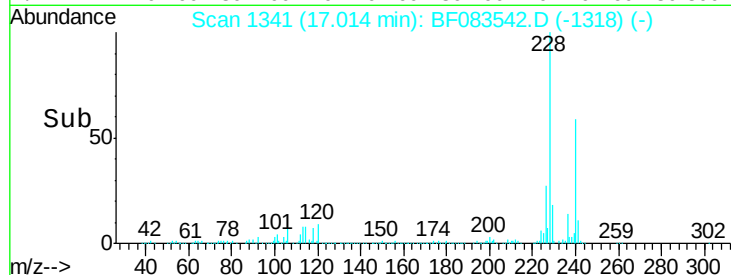
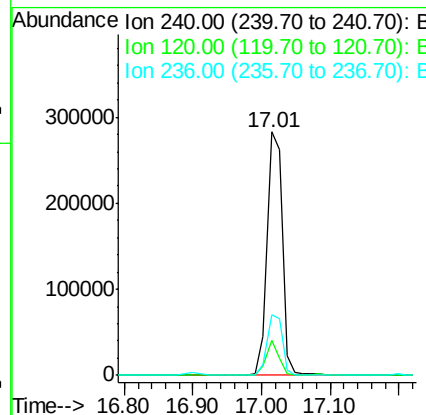
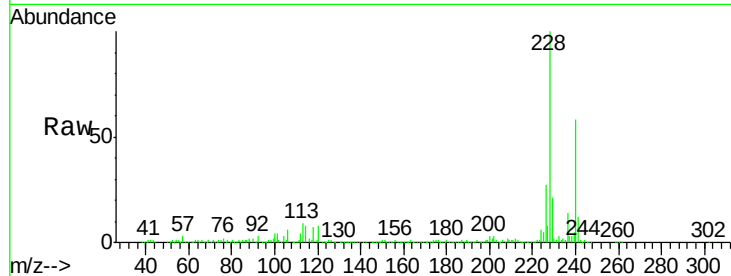
ClientSampleId :

S6-14.5

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.6	8.1	12.1#
236	24.7	20.8	31.2

Manual Integrations
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#77

Pyrene

Concen: 66.06 ng m

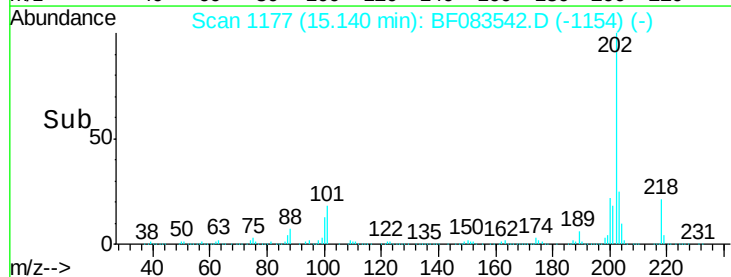
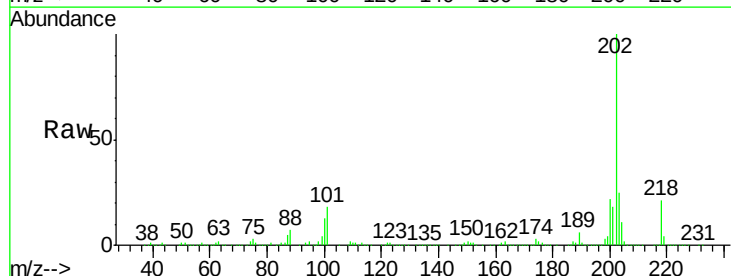
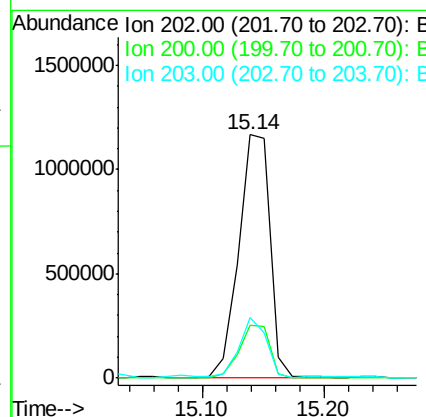
RT: 15.14 min Scan# 1177

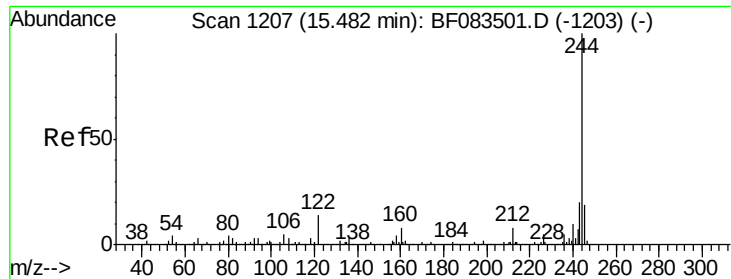
Delta R.T. -0.03 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.0	16.7	25.1
203	24.8	14.3	21.5#





#78

Terphenyl-d14

Concen: 79.04 ng

RT: 15.46 min Scan# 1205

Delta R.T. -0.02 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Instrument :

BNA_F

ClientSampleId :

S6-14.5

Tot Ion:244 Resp: 1531825

Ion Ratio Lower Upper

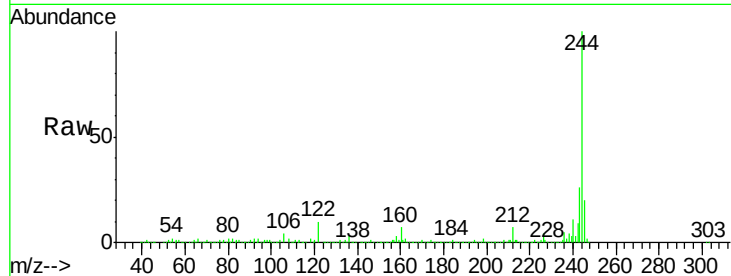
244 100

212 7.1 6.1 9.1

122 9.7 11.0 16.6#

Manual Integrations
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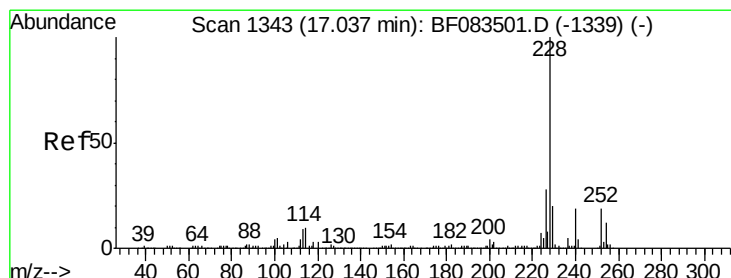
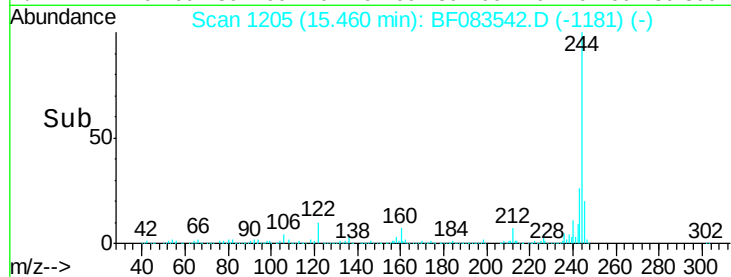
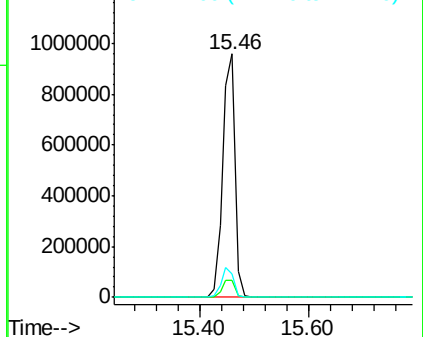
Mmdadoda
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 41.31 ng

RT: 17.00 min Scan# 1340

Delta R.T. -0.03 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

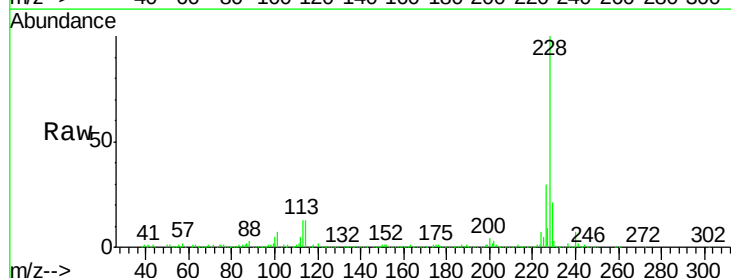
Tgt Ion:228 Resp: 1042325

Ion Ratio Lower Upper

228 100

226 29.8 22.3 33.5

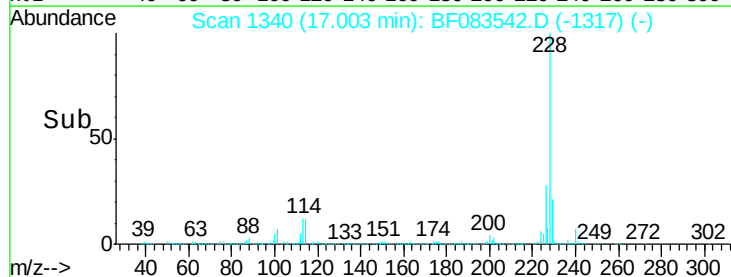
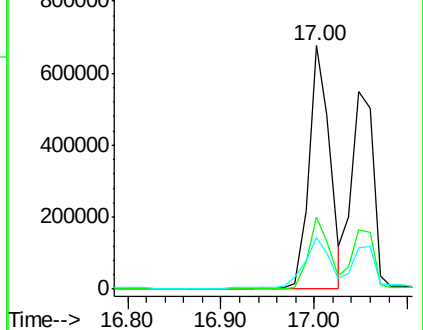
229 21.5 15.7 23.5

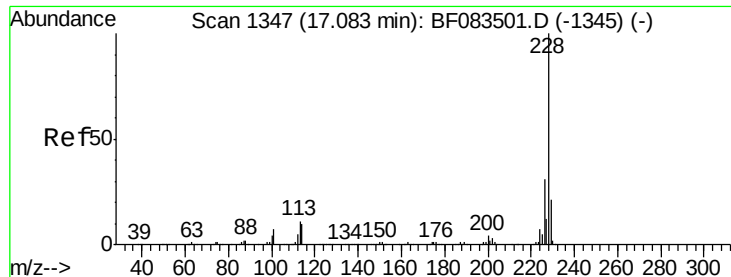


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





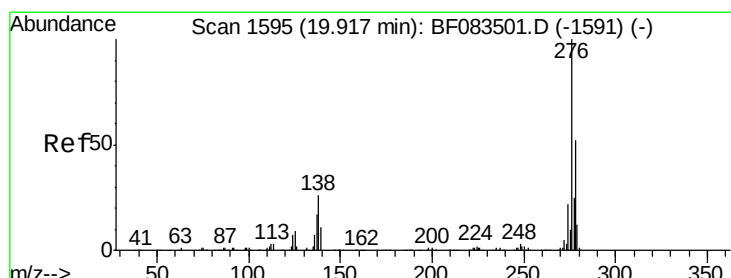
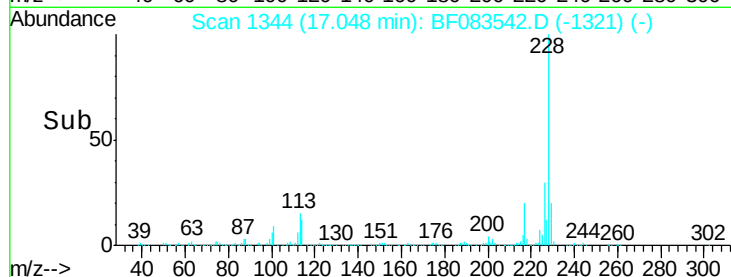
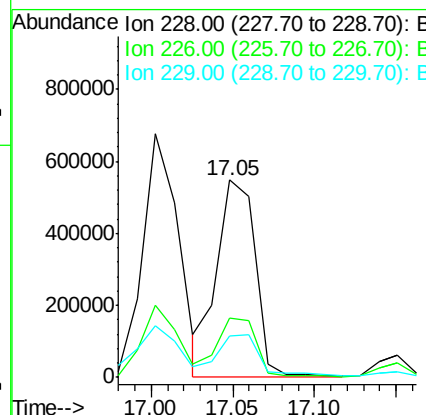
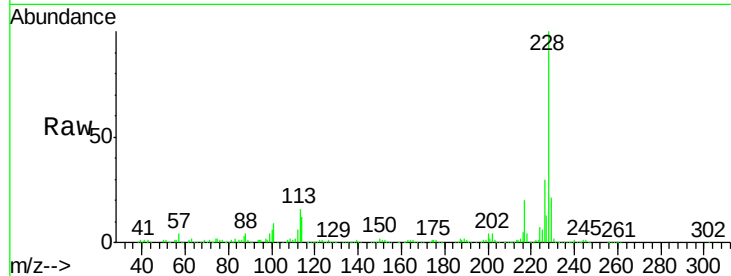
#82
Chrysene
Concen: 35.49 ng
RT: 17.05 min Scan# 1344
Delta R.T. -0.03 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Instrument :
BNA_F
ClientSampleId :
S6-14.5

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.7	37.1
229	21.3	16.3	24.5

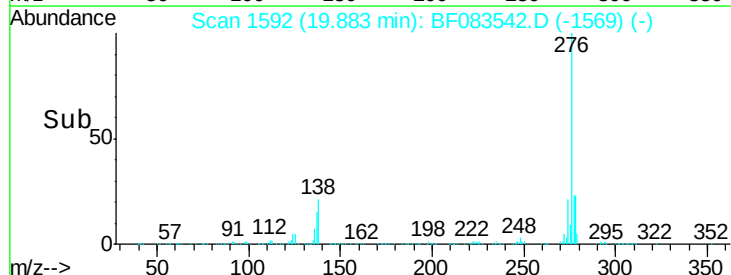
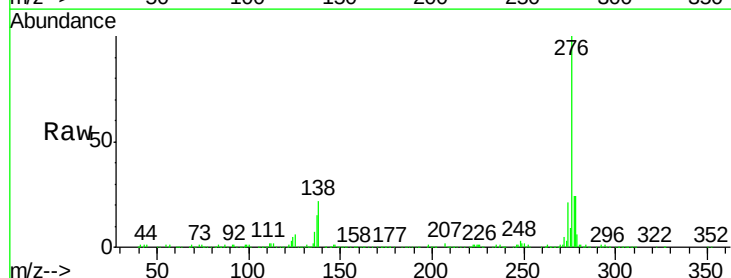
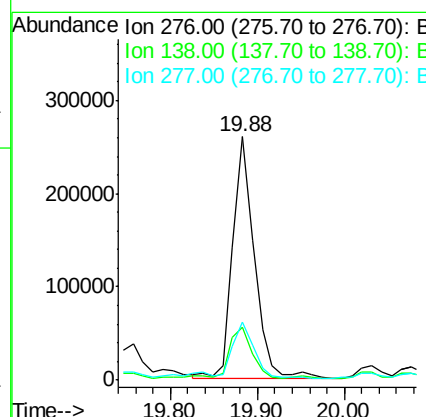
Manual Integrations
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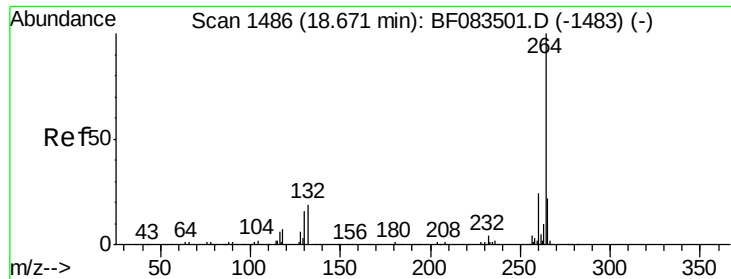
Mmdadoda
12/7/2015 6:33:31 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 20.80 ng
RT: 19.88 min Scan# 1592
Delta R.T. -0.03 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.3	0.0	0.0#
277	27.6	0.0	0.0#





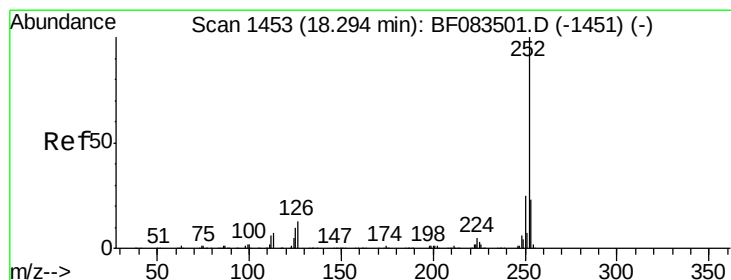
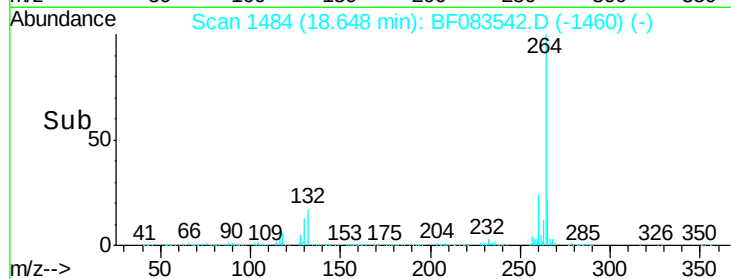
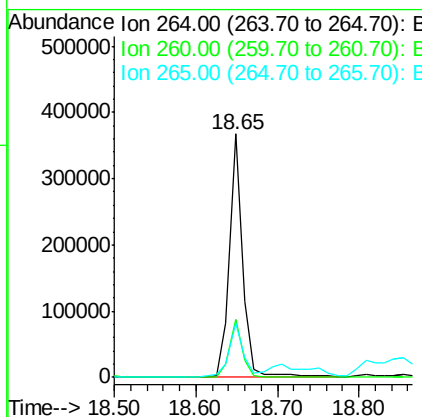
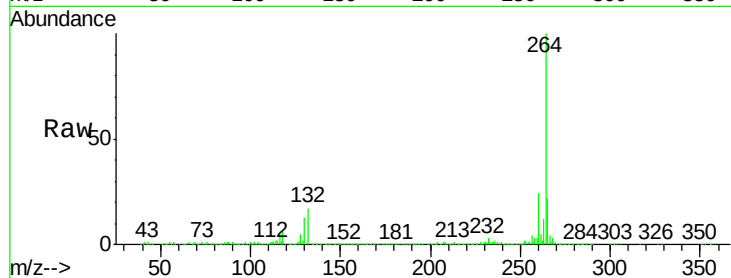
#86
Pervlene-d12
Concen: 20.00 ng
RT: 18.65 min Scan# 1484
Delta R.T. -0.02 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Instrument :
BNA_F
ClientSampleId :
S6-14.5

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.0
265	22.3	17.8	26.6

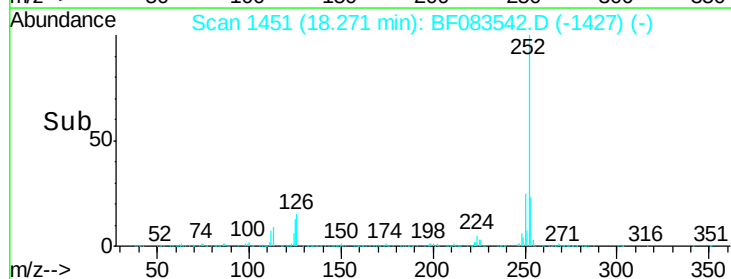
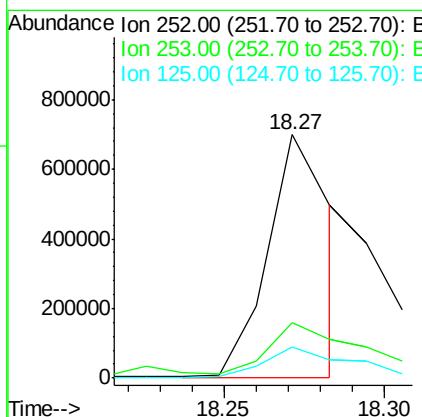
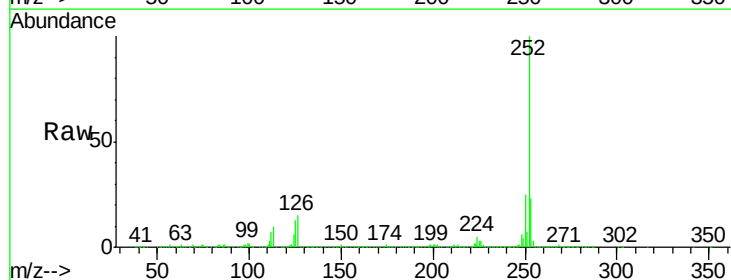
Manual Integrations
APPROVED

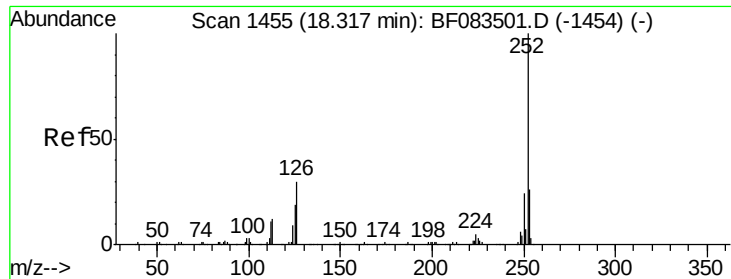
Mmdadoda
12/7/2015 6:33:31 PM



#87
Benzo(b)fluoranthene
Concen: 41.35 ng m
RT: 18.27 min Scan# 1451
Delta R.T. -0.02 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.2	27.4
125	13.0	8.2	12.4#





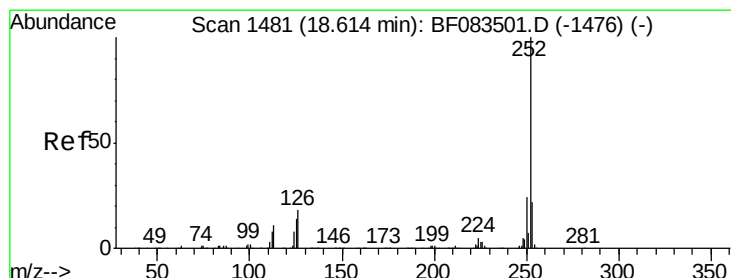
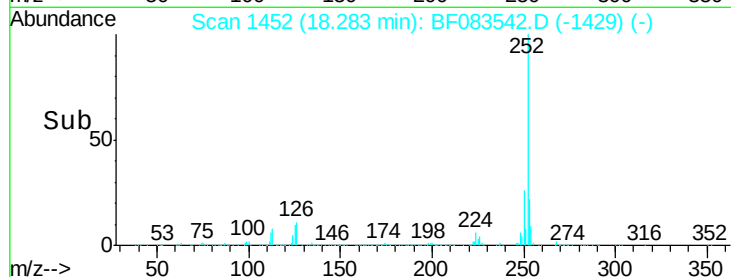
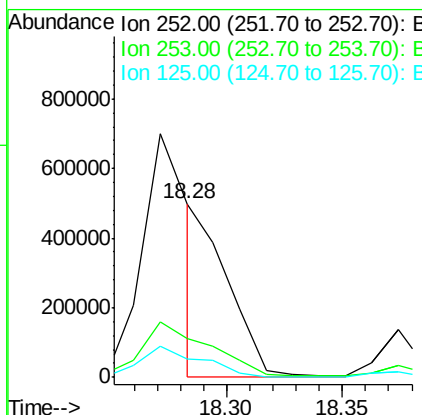
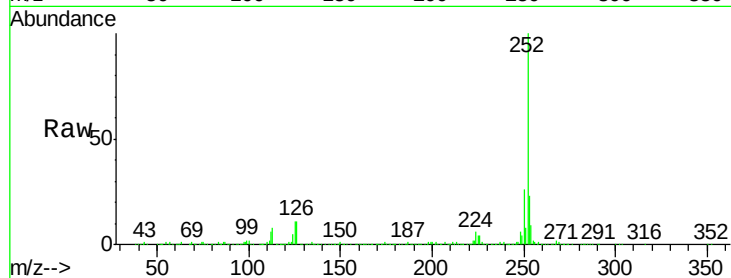
#88
Benzo(k)fluoranthene
Concen: 17.81 ng m
RT: 18.28 min Scan# 1452
Delta R.T. -0.03 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Instrument :
BNA_F
ClientSampleId :
S6-14.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.6	27.8
125	10.6	11.5	17.3

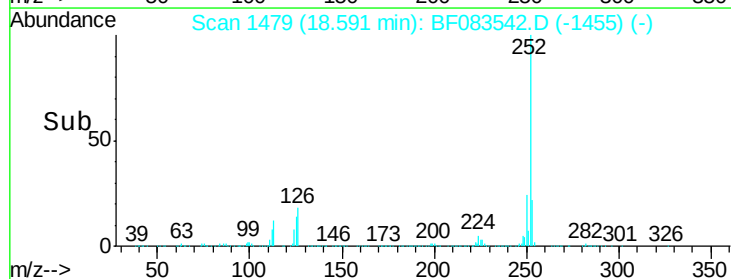
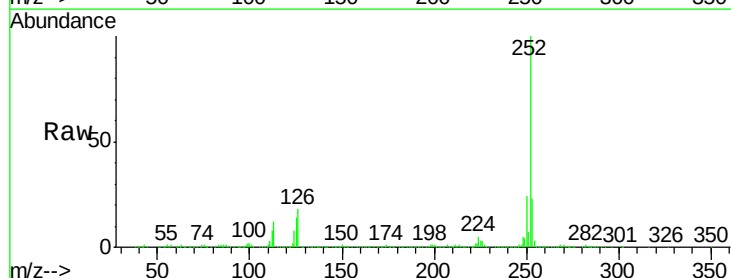
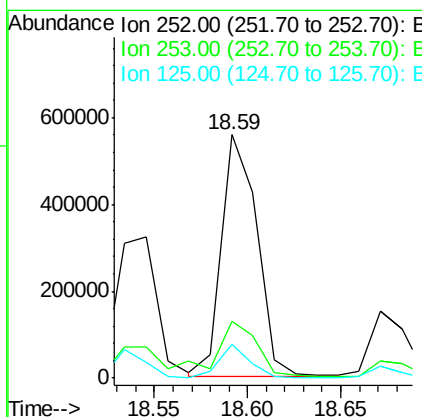
Manual Integrations
APPROVED

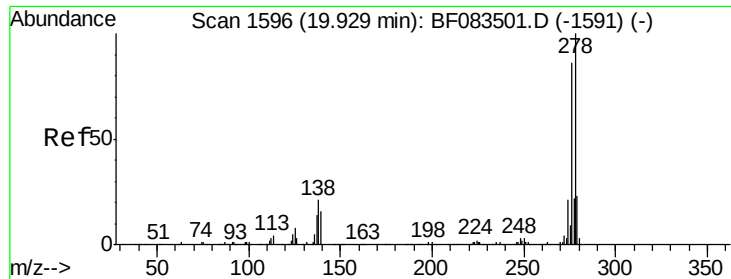
Mmdadoda
12/7/2015 6:33:31 PM



#89
Benzo(a)pyrene
Concen: 32.72 ng
RT: 18.59 min Scan# 1479
Delta R.T. -0.02 min
Lab File: BF083542.D
Acq: 7 Dec 2015 4:17

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	14.1	11.0	16.6





#90

Dibenzo(a,h)anthracene

Concen: 5.44 ng/mL

RT: 19.88 min Scan# 1592

Delta R.T. -0.05 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Instrument :

BNA_F

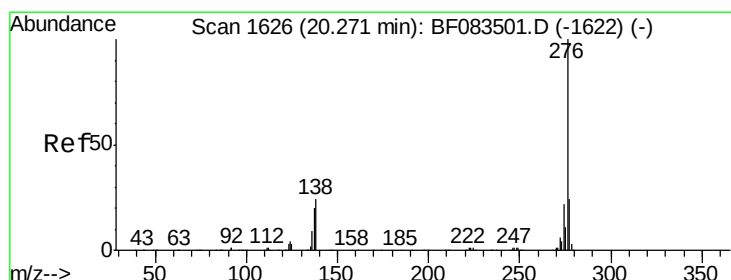
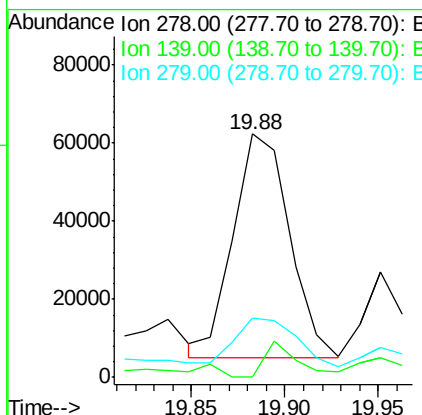
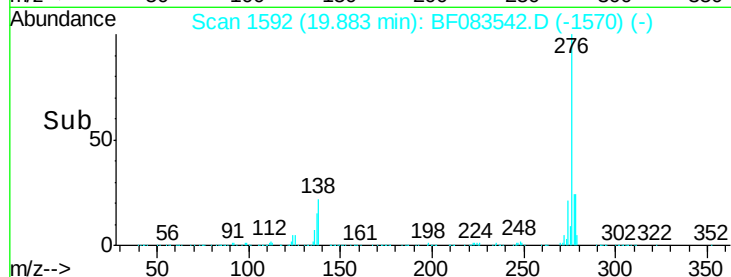
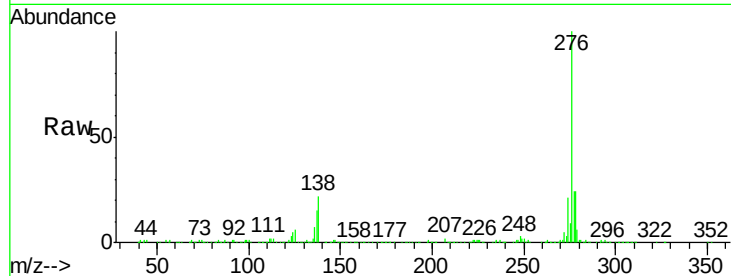
ClientSampleId :

S6-14.5

Tot Ion:	278	Resp:	119673
Ion Ratio	Lower	Upper	
278	100		
139	0.0	12.8	19.2#
279	24.5	18.6	28.0

Manual Integrations
APPROVED

Mmdadoda
12/7/2015 6:33:31 PM



#91

Benzo(g,h,i)perylene

Concen: 17.73 ng/mL

RT: 20.24 min Scan# 1623

Delta R.T. -0.03 min

Lab File: BF083542.D

Acq: 7 Dec 2015 4:17

Tgt Ion:	276	Resp:	392975
Ion Ratio	Lower	Upper	
276	100		
277	24.4	19.2	28.8
138	22.2	19.5	29.3

