

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083451.D
 Acq On : 3 Dec 2015 8:56
 Operator : UM/IZ
 Sample : G4582-13 20X
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-08(0-8)

Manual Integrations
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Quant Time: Dec 03 10:46:50 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 01 01:17:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.53	152	131397	20.00	ng	-0.01
21) Naphthalene-d8	7.82	136	492782	20.00	ng	-0.01
38) Acenaphthene-d10	9.57	164	231148	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	390115	20.00	ng	-0.01
75) Chrysene-d12	14.74	240	325980	20.00	ng	-0.02
86) Perylene-d12	16.80	264	286839	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	53818	6.15	ng	0.00
7) Phenol-d6	6.21	99	82308	6.87	ng	-0.01
23) Nitrobenzene-d5	7.12	82	51162	4.56	ng	-0.01
41) 2,4,6-Tribromophenol	10.36	330	13311	5.74	ng	-0.02
44) 2-Fluorobiphenyl	8.91	172	82466	5.08	ng	-0.01
78) Terphenyl-d14	13.20	244	61486	4.50	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	7.86	128	2555943	95.59	ng	99
37) 2-Methylnaphthalene	8.54	142	326591	18.28	ng	99
45) 1,1'-Biphenyl	9.00	154	144405	7.12	ng	96
48) Acenaphthylene	9.44	152	215134	8.73	ng	99
51) Acenaphthene	9.61	154	539222	37.21	ng	100
57) Fluorene	10.12	166	303307	18.09	ng	98
70) Phenanthrene	11.15	178	1550159	67.14	ng	99
71) Anthracene	11.20	178	520329	22.39	ng	97
74) Fluoranthene	12.65	202	1016101	42.46	ng	97
77) Pyrene	12.97	202	1480602	65.04	ng	99
80) Benzo(a)anthracene	14.72	228	545732m	27.33	ng	
82) Chrysene	14.77	228	546975	28.35	ng	99
85) Indeno(1,2,3-cd)pyrene	18.18	276	277531m	19.75	ng	
87) Benzo(b)fluoranthene	16.29	252	651930m	35.42	ng	
88) Benzo(k)fluoranthene	16.32	252	122764m	7.06	ng	
89) Benzo(a)pyrene	16.73	252	550475	34.82	ng	# 97
90) Dibenzo(a,h)anthracene	18.19	278	60944	4.42	ng	97
91) Benzo(g,h,i)perylene	18.55	276	293182	21.69	ng	96

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

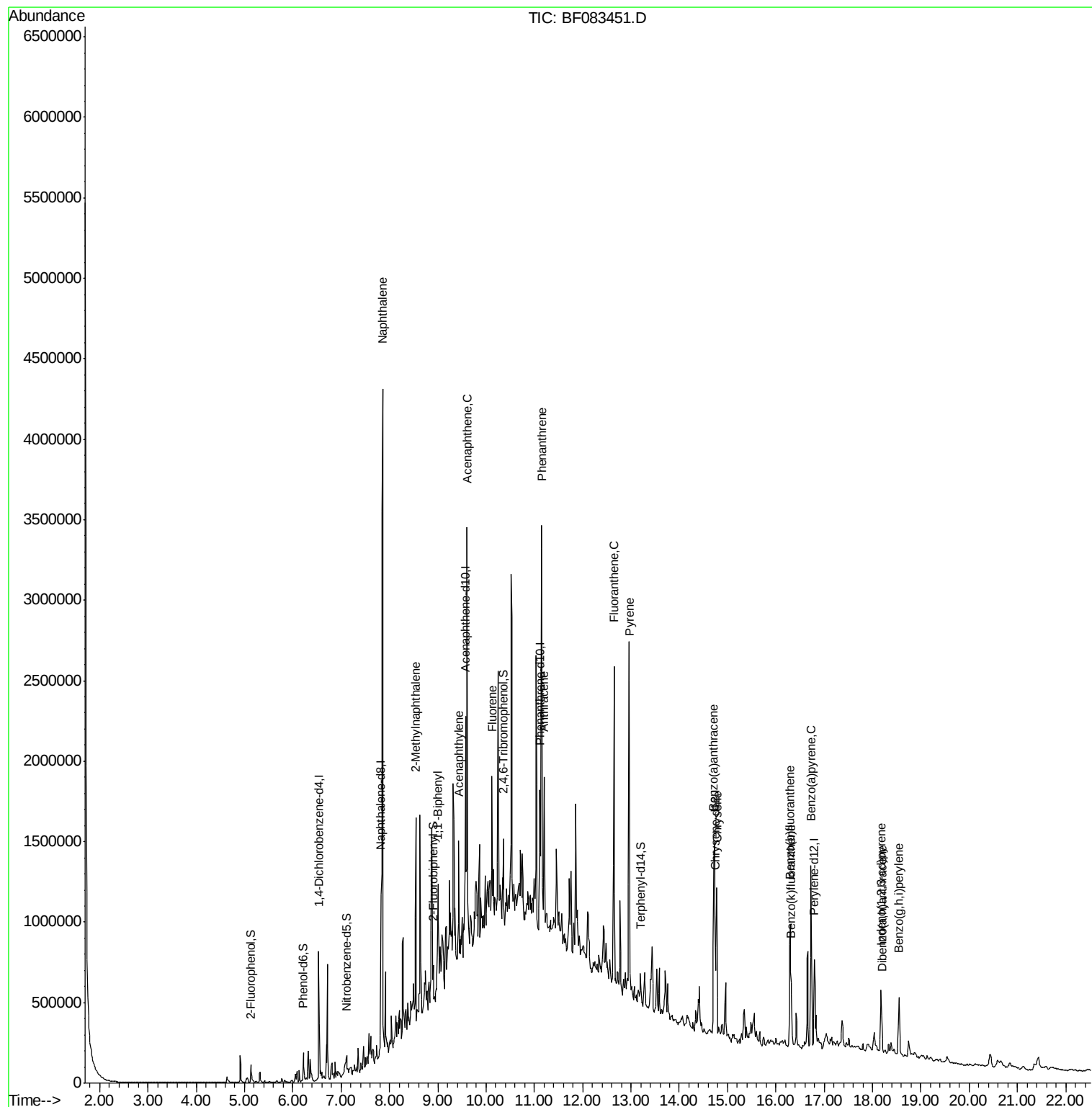
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.53 min Scan# 424

Delta R.T. -0.01 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Instrument :

BNA_F

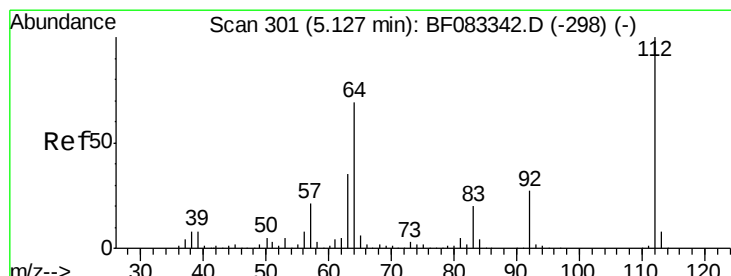
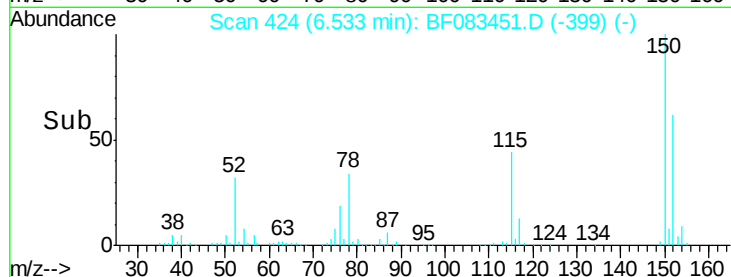
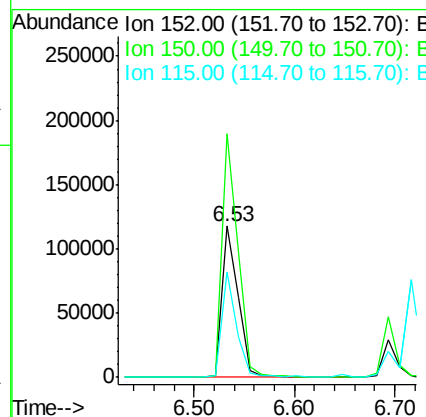
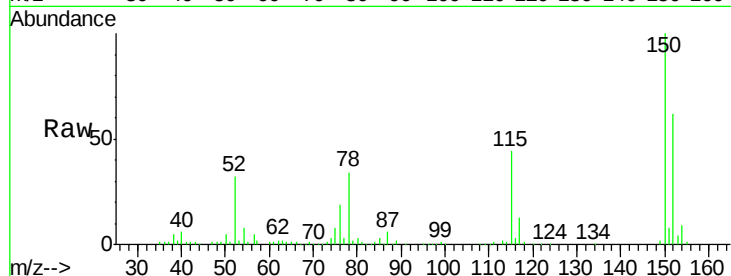
ClientSampleId :

SB-P3WC-08(0-8)

Tot Ion:	152	Resp:	131397
Ion Ratio	Lower	Upper	
152	100		
150	161.0	129.8	194.8
115	70.1	59.2	88.8

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#5

2-Fluorophenol

Concen: 6.15 ng

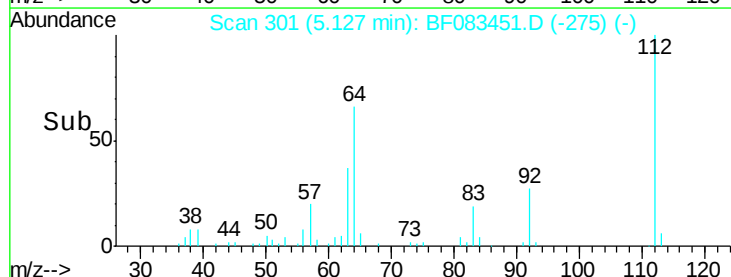
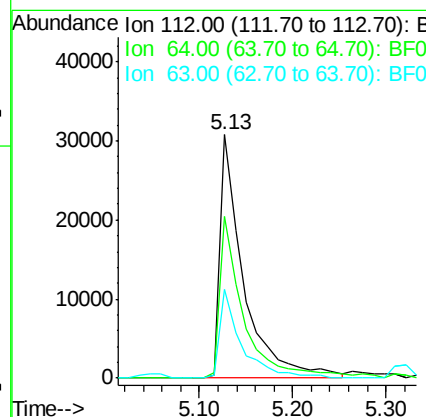
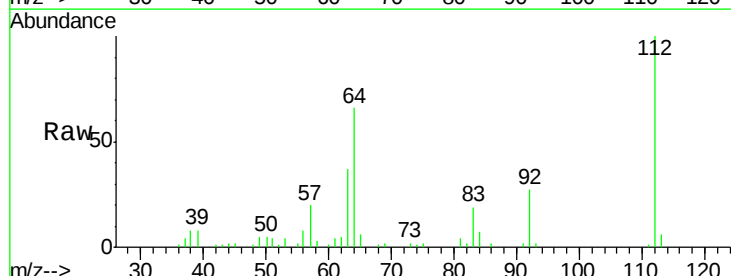
RT: 5.13 min Scan# 301

Delta R.T. 0.00 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Tgt Ion:	112	Resp:	53818
Ion Ratio	Lower	Upper	
112	100		
64	66.3	55.6	83.4
63	36.6	28.2	42.2





#7

Phenol-d6

Concen: 6.87 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Instrument :

BNA_F

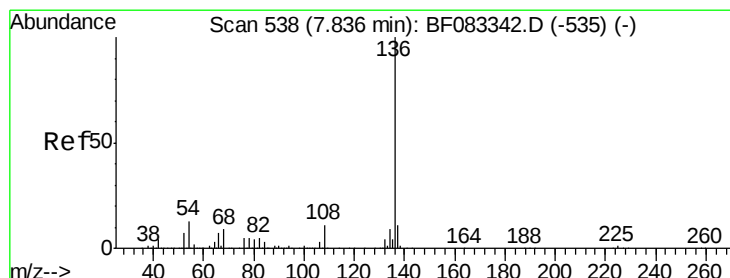
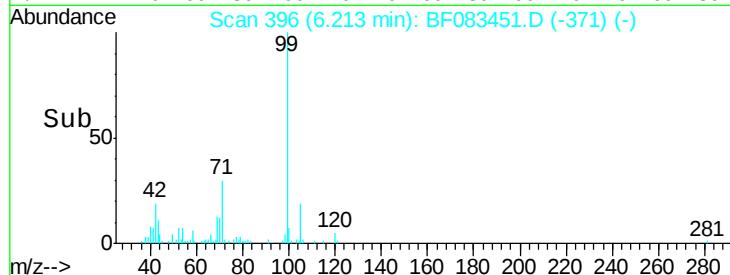
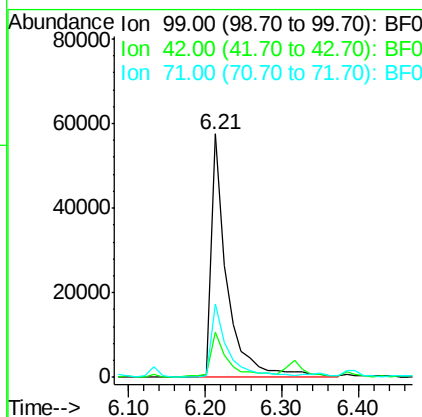
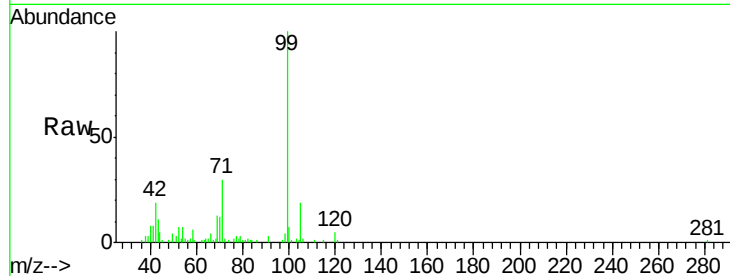
ClientSampleId :

SB-P3WC-08(0-8)

Tot Ion:	99	Resp:	82308
Ion Ratio	Lower	Upper	
99	100		
42	18.7	14.9	22.3
71	30.4	24.7	37.1

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#21

Naphthalene-d8

Concen: 20.00 ng

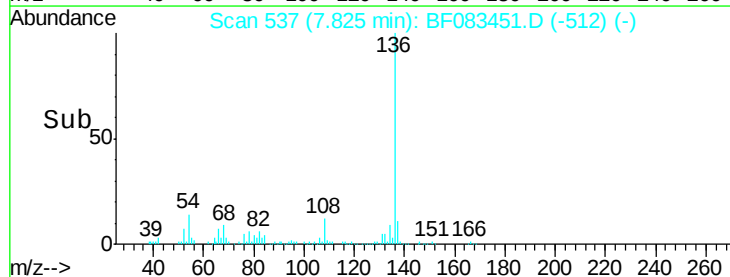
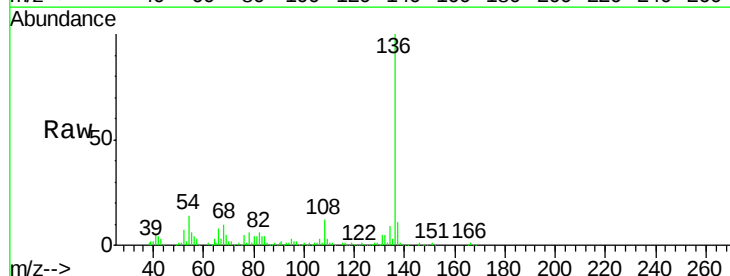
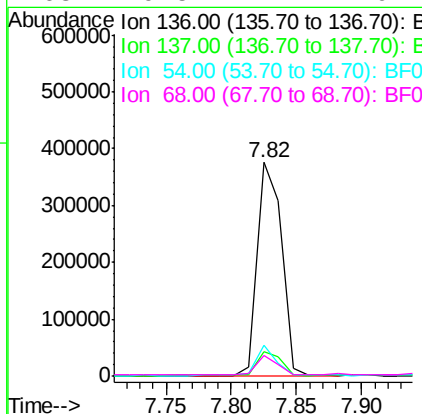
RT: 7.82 min Scan# 537

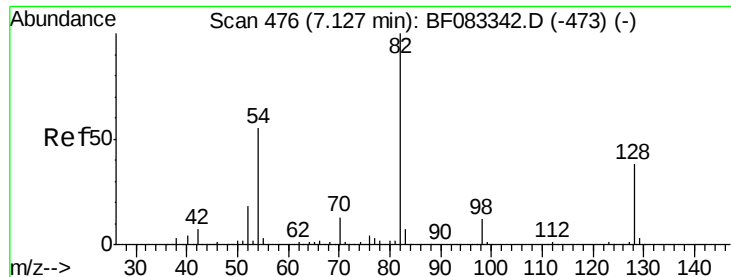
Delta R.T. -0.01 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Tgt Ion:	136	Resp:	492782
Ion Ratio	Lower	Upper	
136	100		
137	11.5	9.0	13.4
54	14.1	10.1	15.1
68	9.5	7.1	10.7





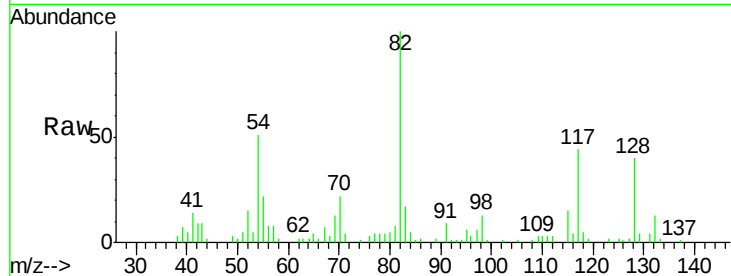
#23
Nitrobenzene-d5
Concen: 4.56 ng
RT: 7.12 min Scan# 475
Delta R.T. -0.01 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)

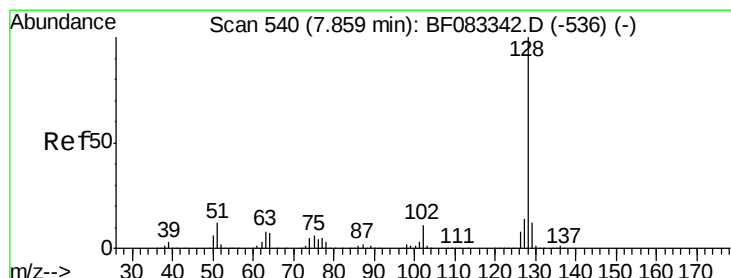
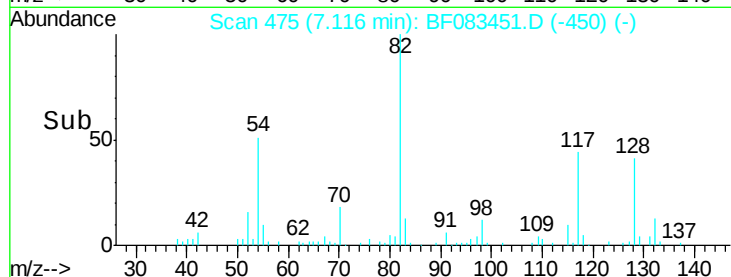
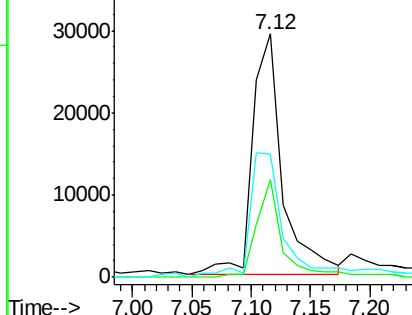
Tot Ion:	82	Resp:	51162
Ion Ratio	Lower	Upper	
82	100		
128	39.9	30.6	46.0
54	50.9	43.8	65.6

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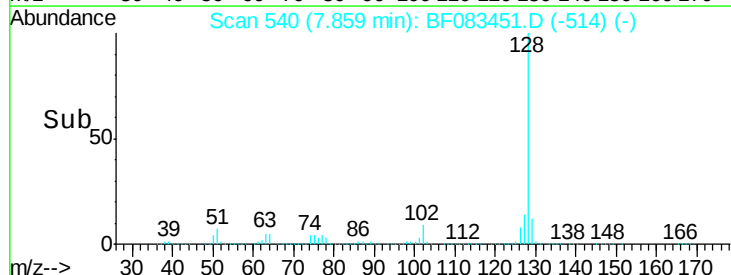
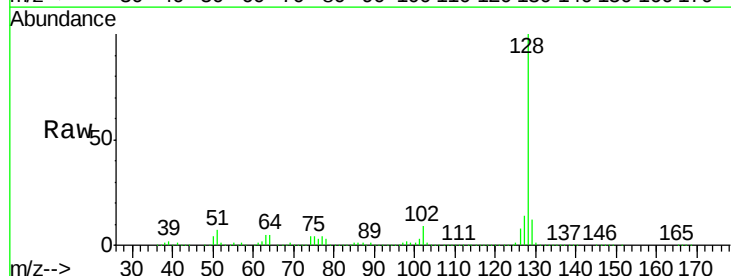
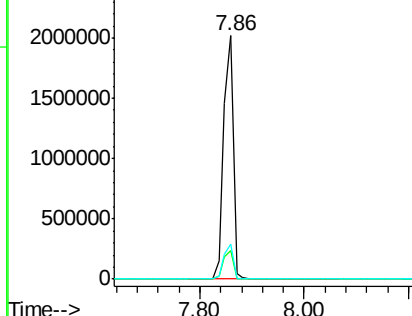
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Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

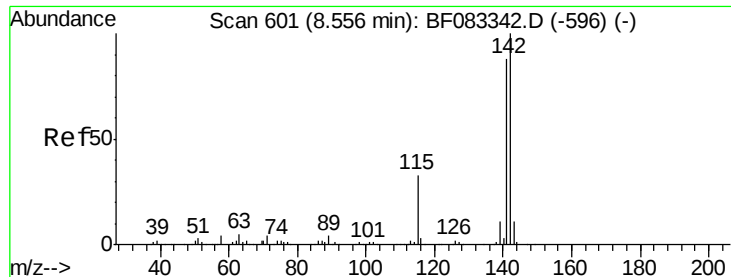


#31
Naphthalene
Concen: 95.59 ng
RT: 7.86 min Scan# 540
Delta R.T. 0.00 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Tgt Ion:	128	Resp:	2555943
Ion Ratio	Lower	Upper	
128	100		
129	11.7	9.7	14.5
127	14.4	11.0	16.4

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





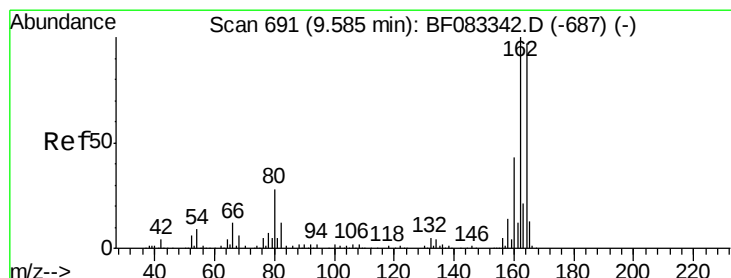
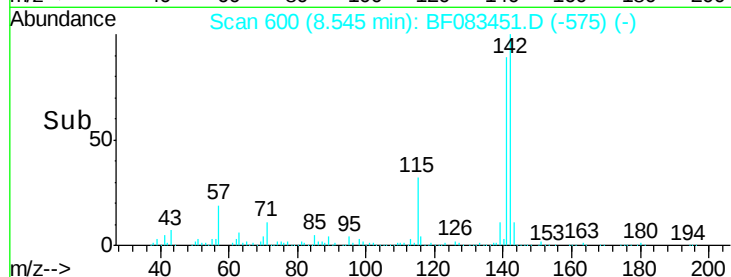
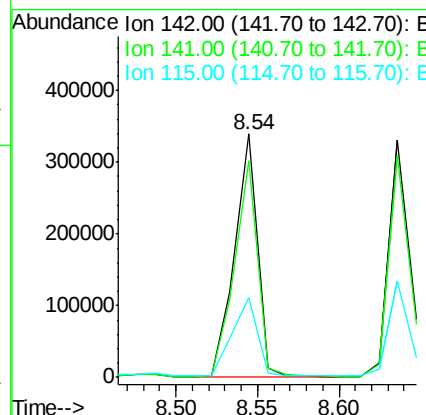
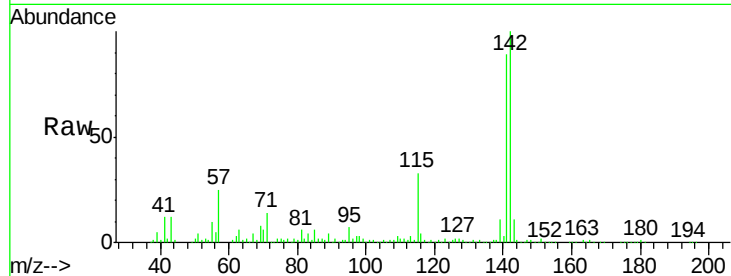
#37
2-Methylnaphthalene
Concen: 18.28 ng
RT: 8.54 min Scan# 600
Delta R.T. -0.01 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	326591		
141	89.2	70.6	105.8	
115	32.6	26.2	39.2	

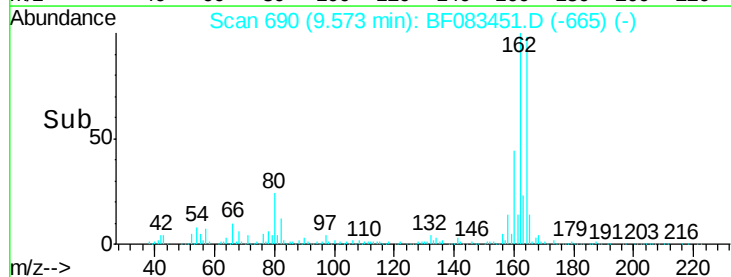
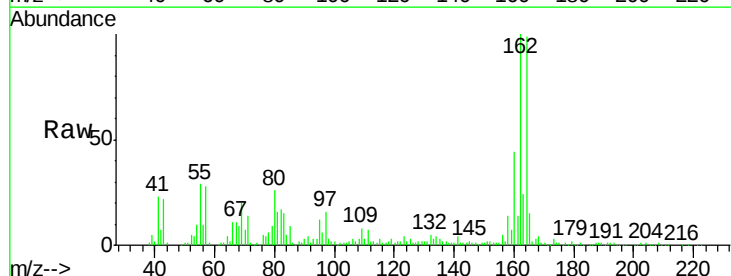
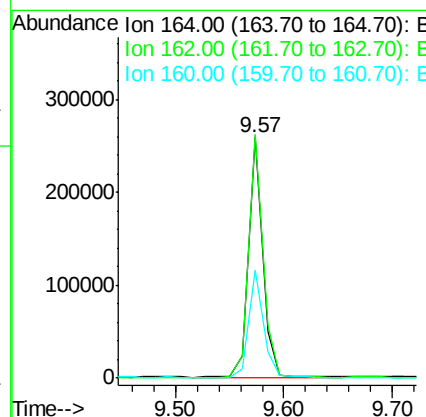
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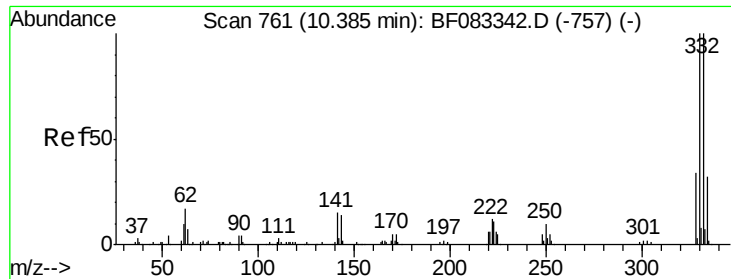
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.57 min Scan# 690
Delta R.T. -0.01 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	231148		
162	101.2	82.6	123.8	
160	44.7	35.3	52.9	





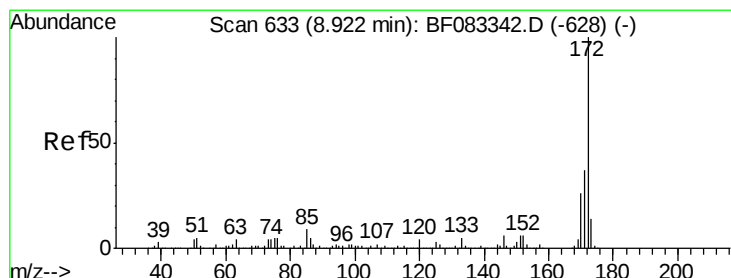
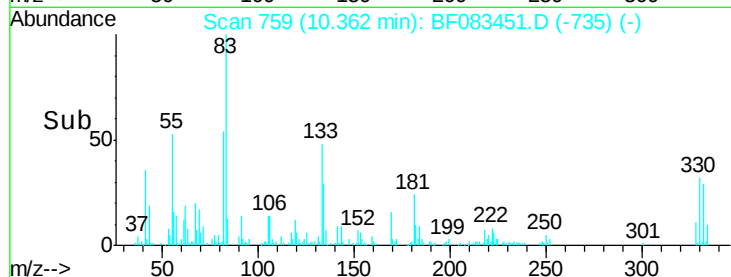
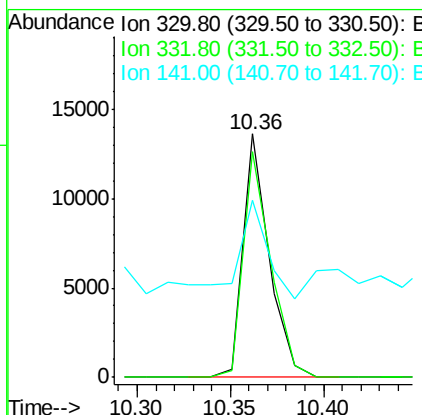
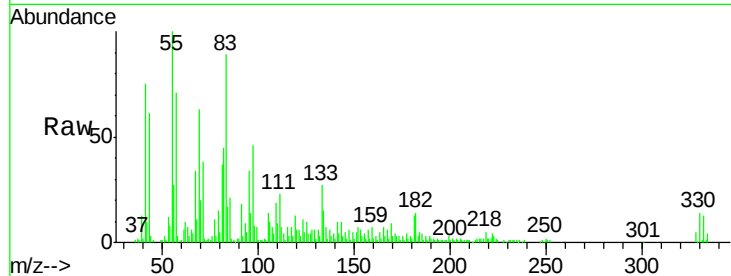
#41
 2,4,6-Tribromophenol
 Concen: 5.74 ng
 RT: 10.36 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF083451.D
 Acq: 3 Dec 2015 8:56

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Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	97.6	77.8	116.6	
141	40.9	29.4	44.0	

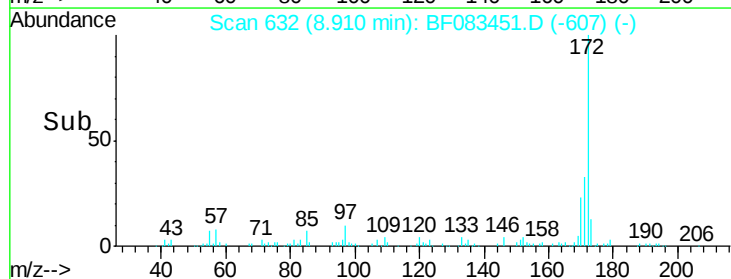
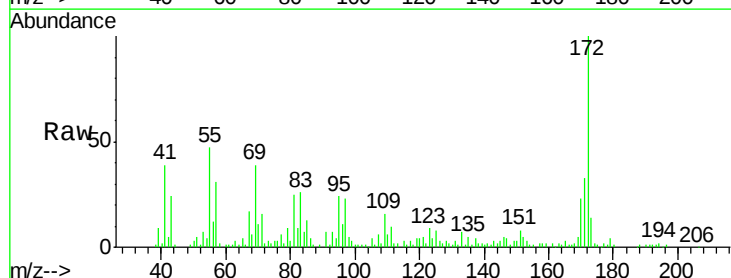
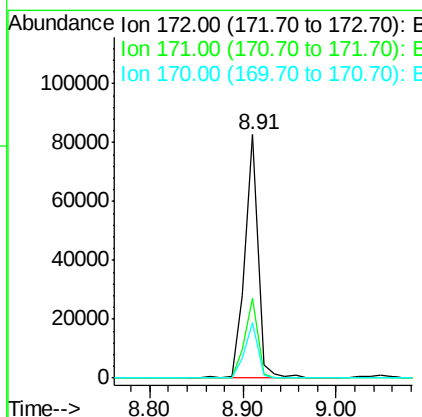
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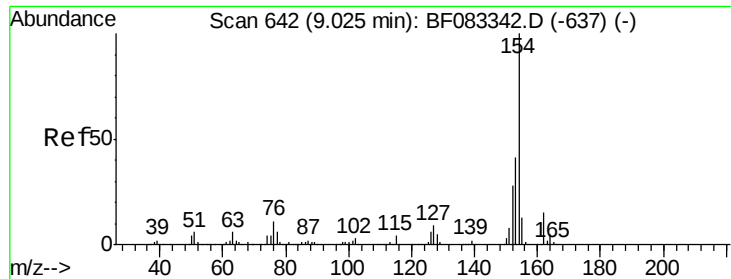
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#44
 2-Fluorobiphenyl
 Concen: 5.08 ng
 RT: 8.91 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: BF083451.D
 Acq: 3 Dec 2015 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	33.0	29.4	44.0	
170	23.0	20.4	30.6	





#45

1,1'-Biphenyl

Concen: 7.12 ng

RT: 9.00 min Scan# 640

Delta R.T. -0.02 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Instrument :

BNA_F

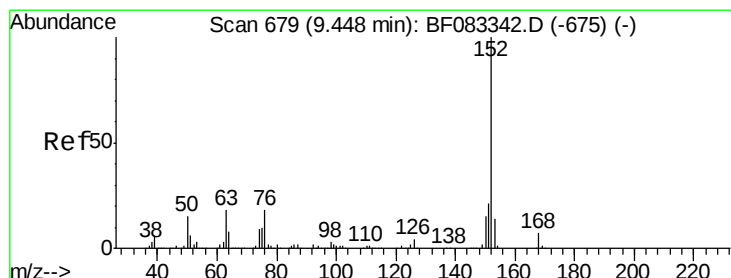
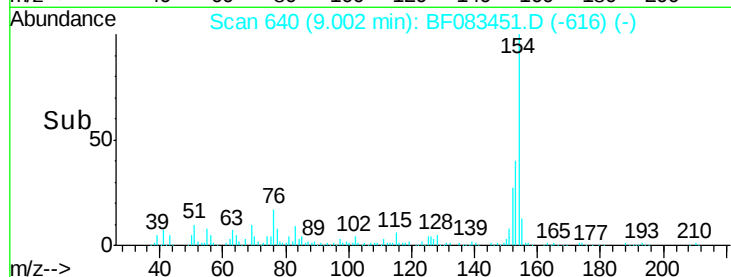
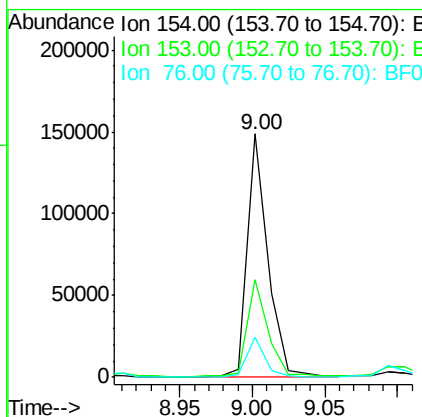
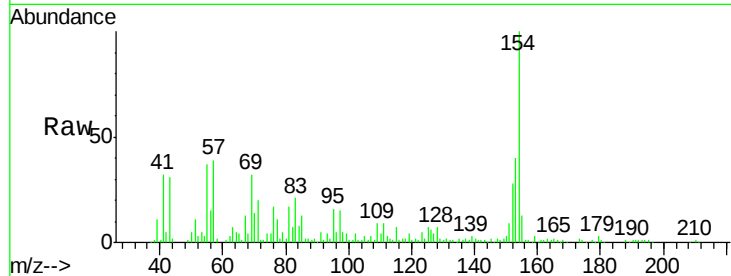
ClientSampleId :

SB-P3WC-08(0-8)

Tot Ion:	154	Resp:	144405
Ion Ratio		Lower	Upper
154	100		
153	40.4	20.6	60.6
76	16.6	0.0	30.5

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#48

Acenaphthylene

Concen: 8.73 ng

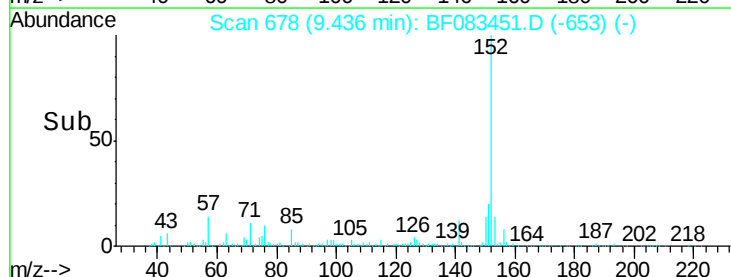
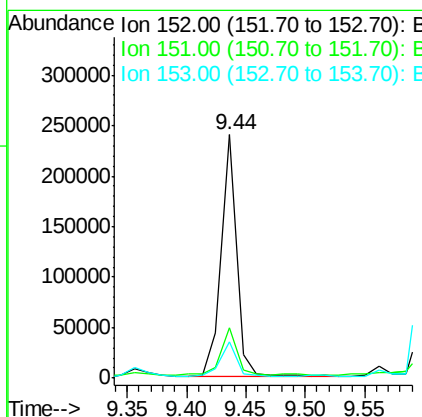
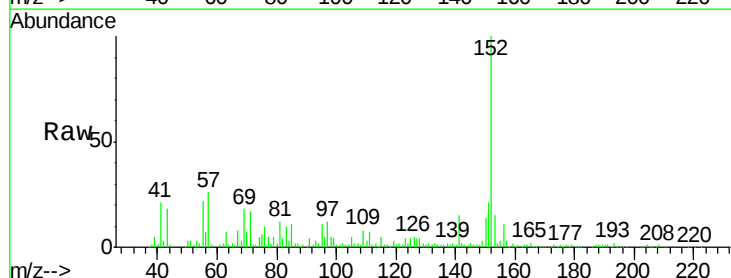
RT: 9.44 min Scan# 678

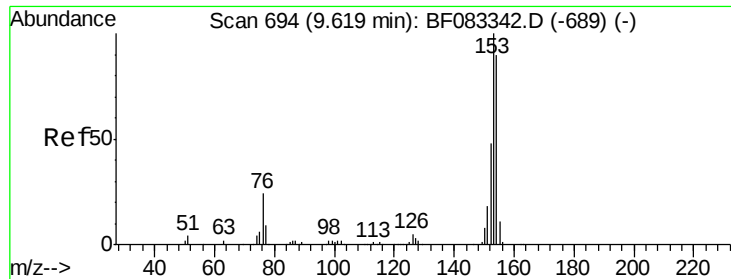
Delta R.T. -0.01 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Tgt Ion:	152	Resp:	215134
Ion Ratio		Lower	Upper
152	100		
151	20.9	16.7	25.1
153	15.1	11.2	16.8





#51

Acenaphthene

Concen: 37.21 ng

RT: 9.61 min Scan# 693

Delta R.T. -0.01 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Instrument :

BNA_F

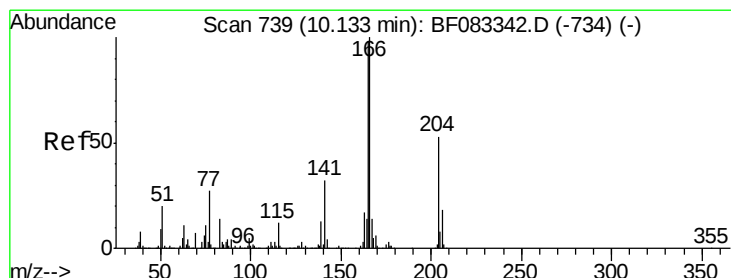
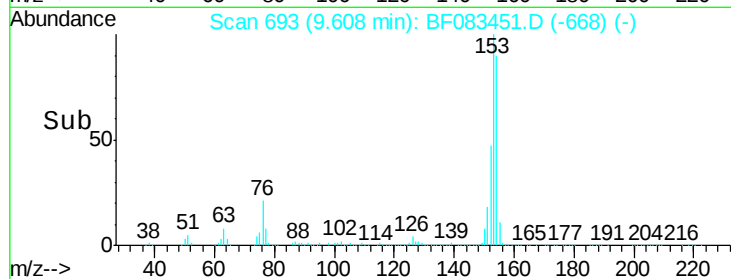
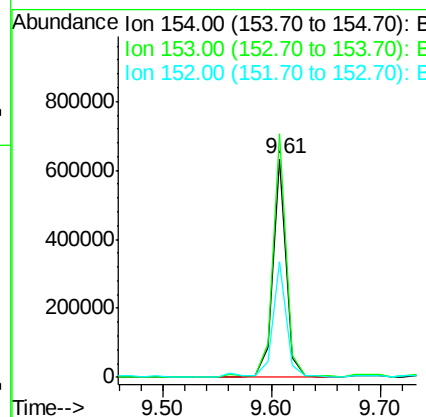
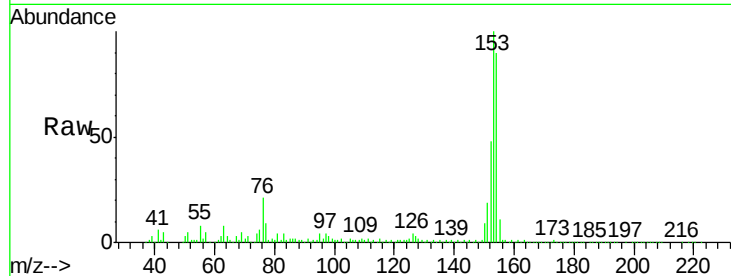
ClientSampleId :

SB-P3WC-08(0-8)

Tot Ion:	154	Resp:	539222
Ion Ratio	Lower	Upper	
154	100		
153	111.6	89.3	133.9
152	53.0	42.5	63.7

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#57

Fluorene

Concen: 18.09 ng

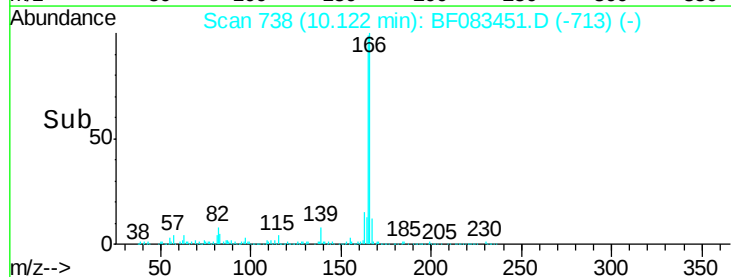
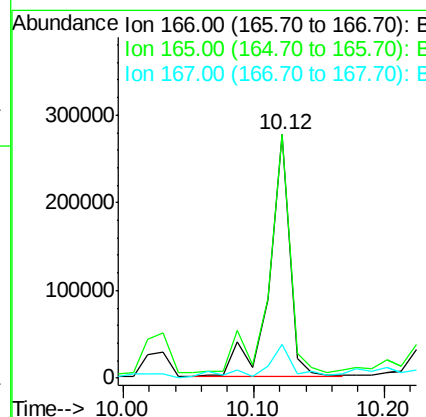
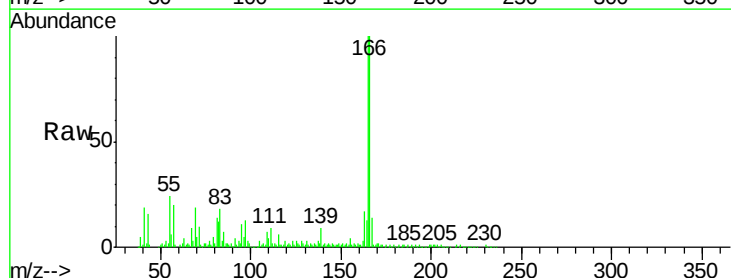
RT: 10.12 min Scan# 738

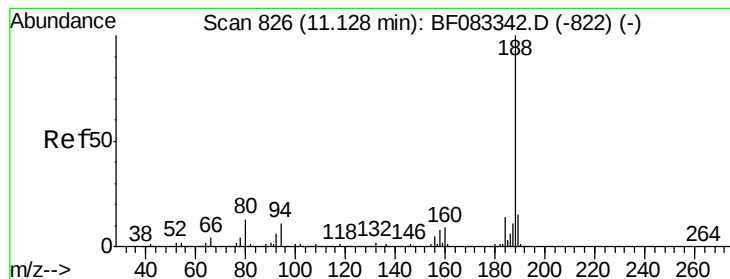
Delta R.T. -0.01 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Tgt Ion:	166	Resp:	303307
Ion Ratio	Lower	Upper	
166	100		
165	100.2	78.3	117.5
167	13.7	11.1	16.7





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.12 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Instrument :

BNA_F

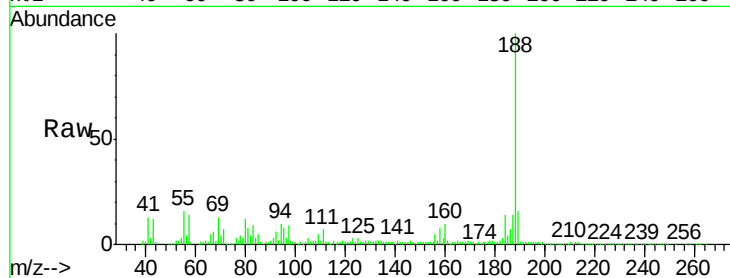
ClientSampleId :

SB-P3WC-08(0-8)

Tot Ion:	188	Resp:	390115
Ion Ratio	Lower	Upper	
188	100		
94	10.3	8.7	13.1
80	11.7	10.3	15.5

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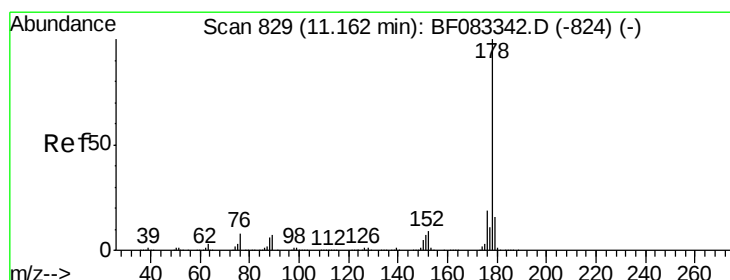
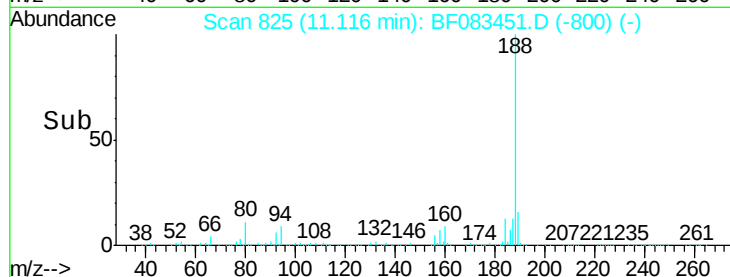
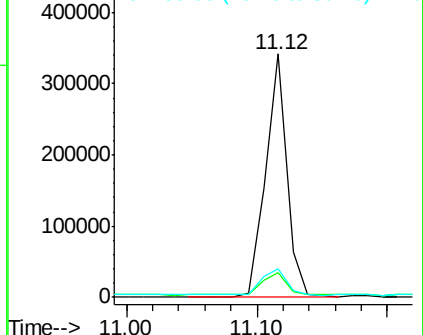
Mmdadoda
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 67.14 ng

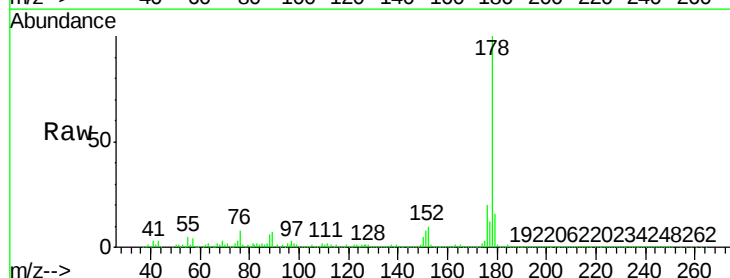
RT: 11.15 min Scan# 828

Delta R.T. -0.01 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

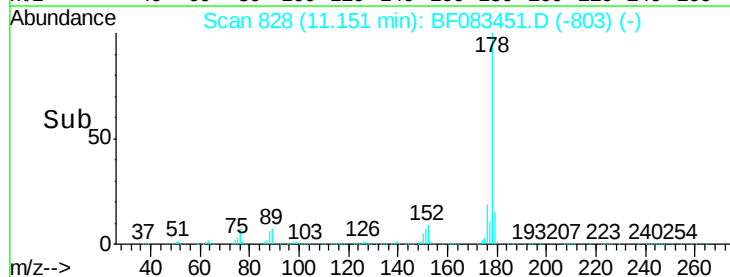
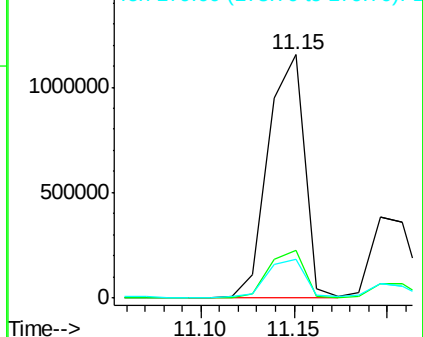
Tgt Ion:	178	Resp:	1550159
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.3	22.9
179	15.8	12.4	18.6

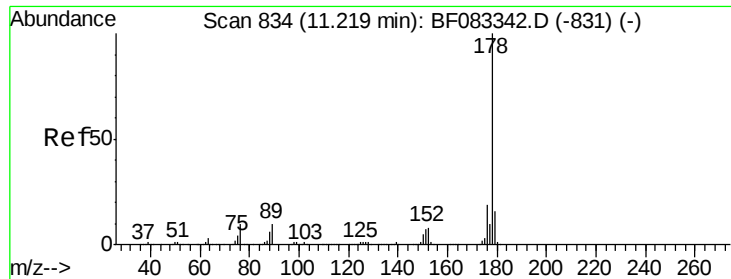


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





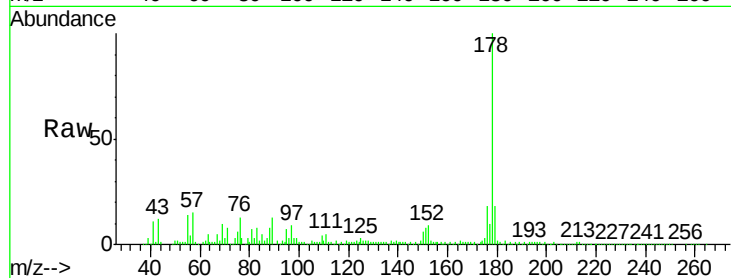
#71
 Anthracene
 Concen: 22.39 ng
 RT: 11.20 min Scan# 832
 Delta R.T. -0.02 min
 Lab File: BF083451.D
 Acq: 3 Dec 2015 8:56

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-08(0-8)

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.6	23.4
179	17.5	12.8	19.2

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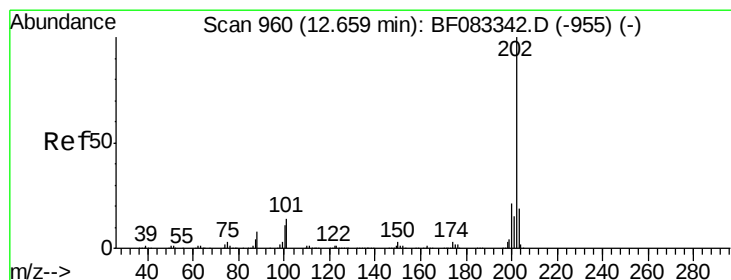
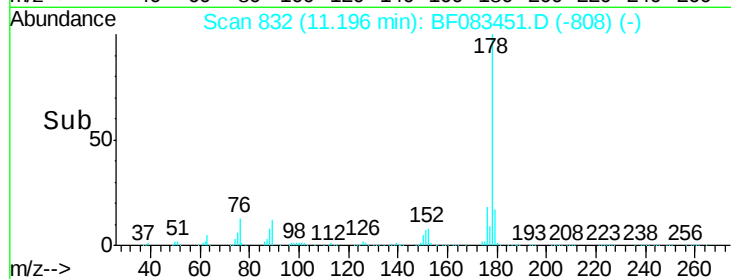
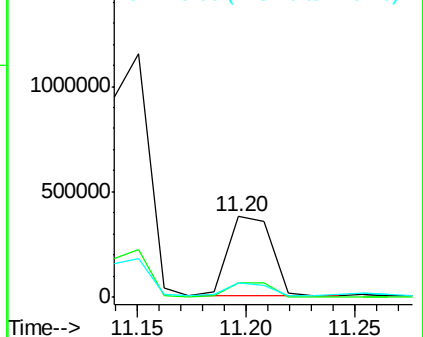


Abundance

Ion 178.00 (177.70 to 178.70): E

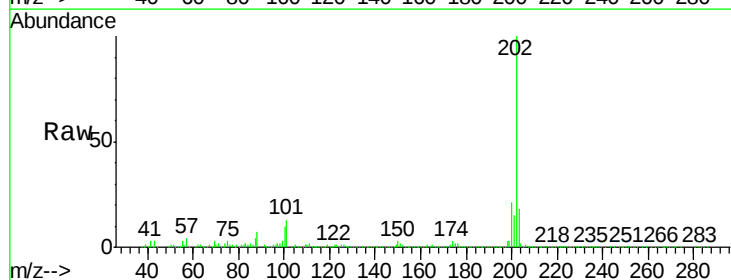
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74
 Fluoranthene
 Concen: 42.46 ng
 RT: 12.65 min Scan# 959
 Delta R.T. -0.01 min
 Lab File: BF083451.D
 Acq: 3 Dec 2015 8:56

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	34.5
203	17.6	0.0	38.7

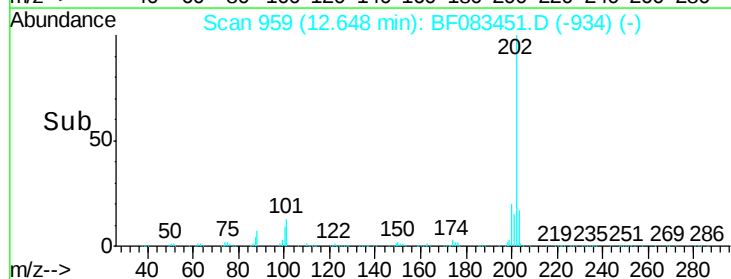
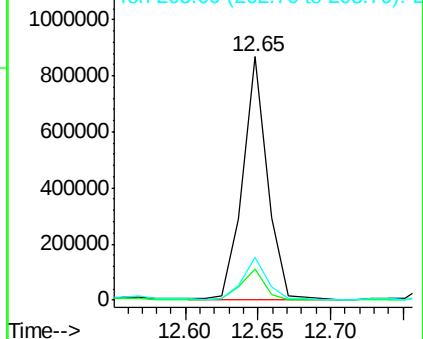


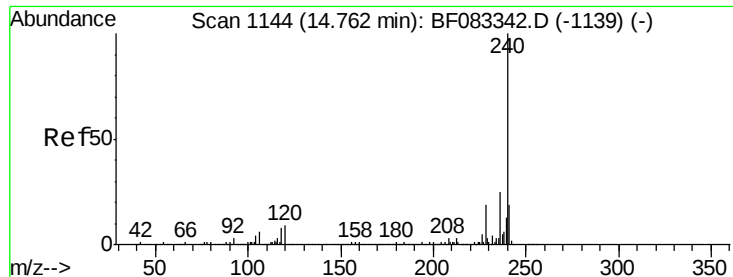
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.74 min Scan# 1142

Delta R.T. -0.02 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Instrument :

BNA_F

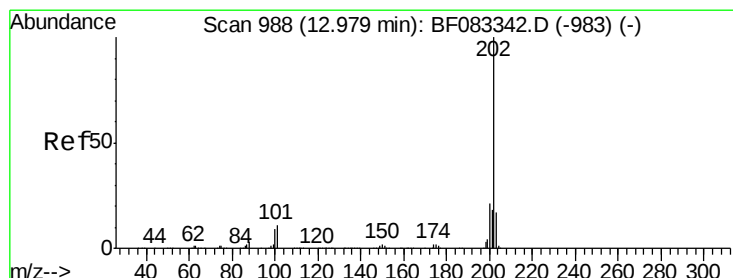
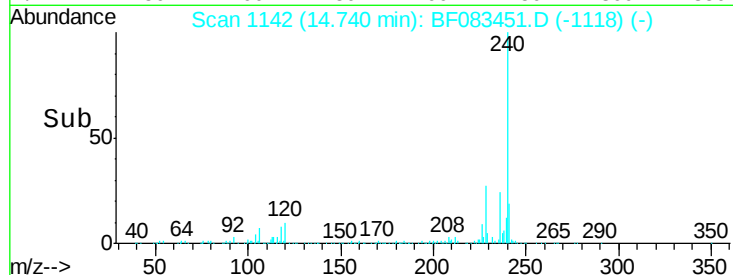
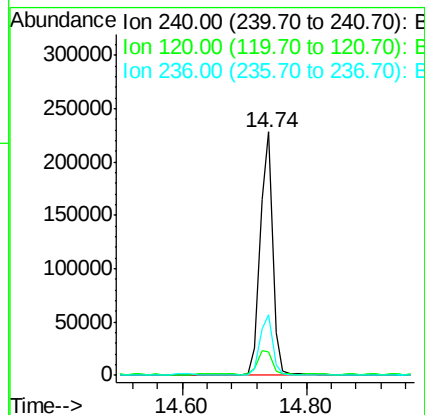
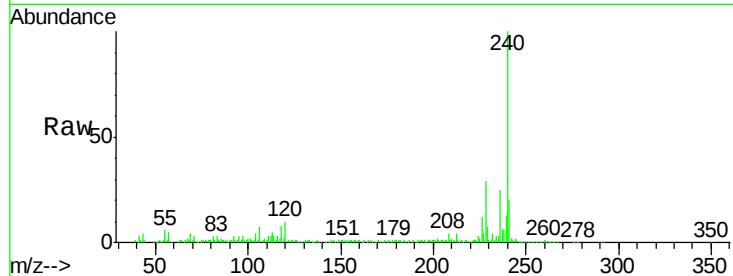
ClientSampleId :

SB-P3WC-08(0-8)

Tot Ion:	240	Resp:	325980
Ion Ratio		Lower	Upper
240	100		
120	9.9	6.9	10.3
236	24.8	19.8	29.6

Manual Integrations
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#77

Pyrene

Concen: 65.04 ng

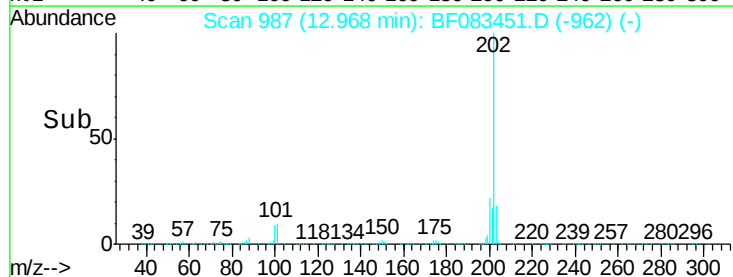
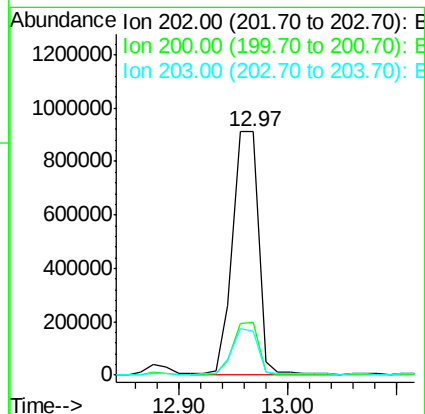
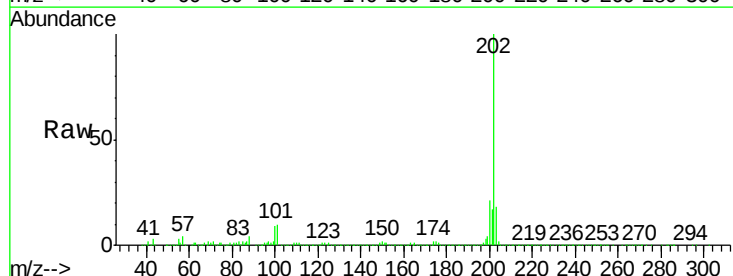
RT: 12.97 min Scan# 987

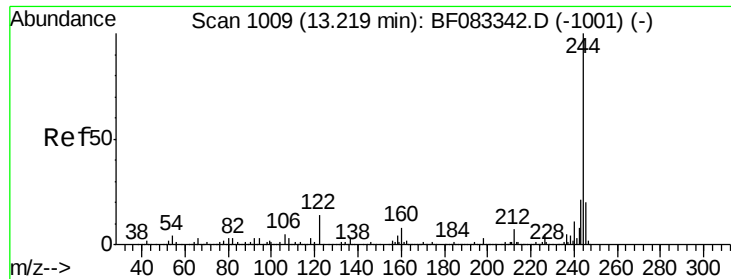
Delta R.T. -0.01 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Tgt Ion:	202	Resp:	1480602
Ion Ratio		Lower	Upper
202	100		
200	21.5	16.9	25.3
203	18.1	13.9	20.9





#78

Terphenyl-d14

Concen: 4.50 ng

RT: 13.20 min Scan# 1007

Delta R.T. -0.02 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Instrument :

BNA_F

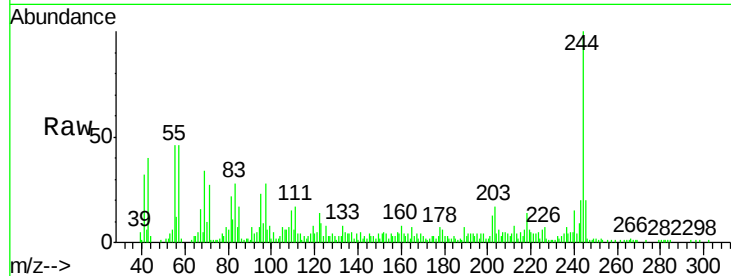
ClientSampleId :

SB-P3WC-08(0-8)

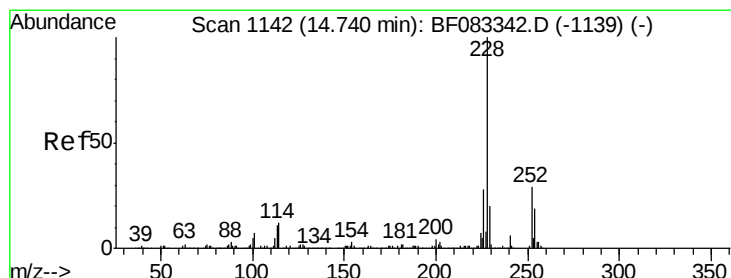
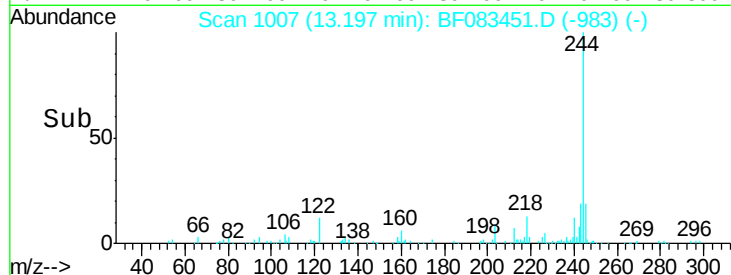
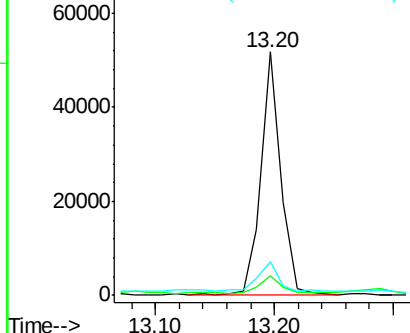
Tot Ion:	244	Resp:	61486
Ion Ratio		Lower	Upper
244	100		
212	7.9	5.8	8.8
122	13.7	11.0	16.4

Manual Integrations
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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: 27.33 ng m

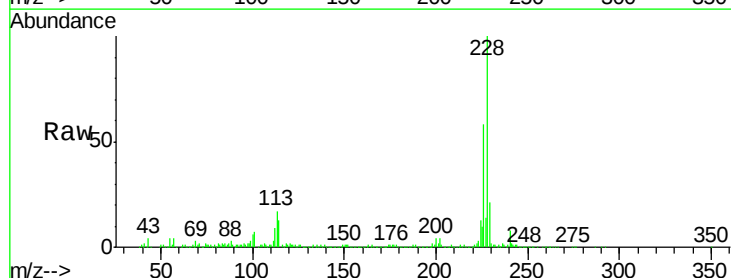
RT: 14.72 min Scan# 1140

Delta R.T. -0.02 min

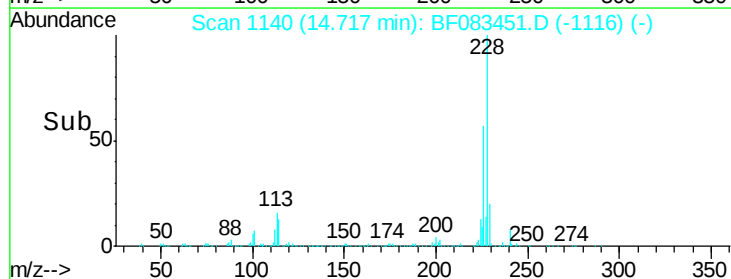
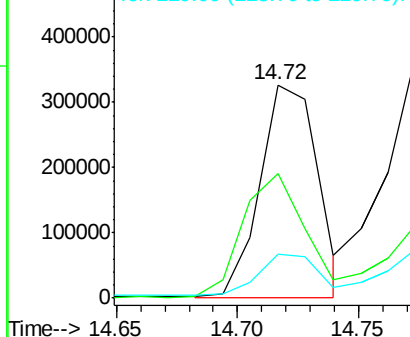
Lab File: BF083451.D

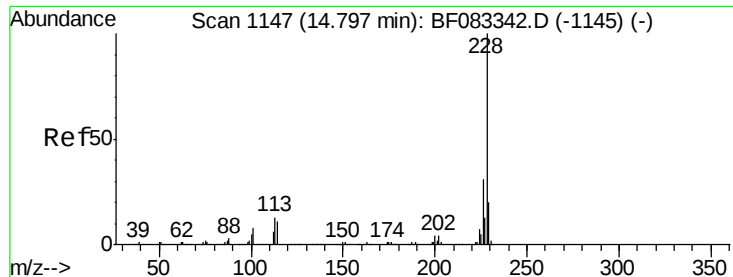
Acq: 3 Dec 2015 8:56

Tgt Ion:	228	Resp:	545732
Ion Ratio		Lower	Upper
228	100		
226	58.2	22.2	33.4#
229	20.8	16.1	24.1



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: 28.35 ng

RT: 14.77 min Scan# 1145

Delta R.T. -0.02 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Instrument :

BNA_F

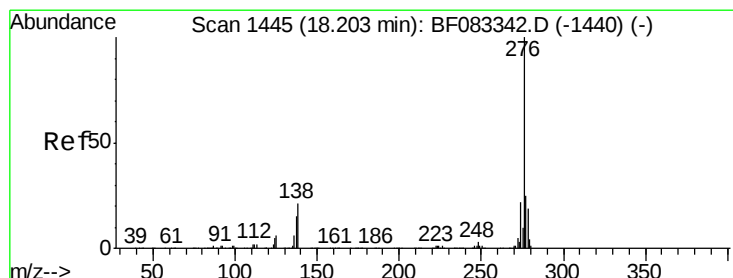
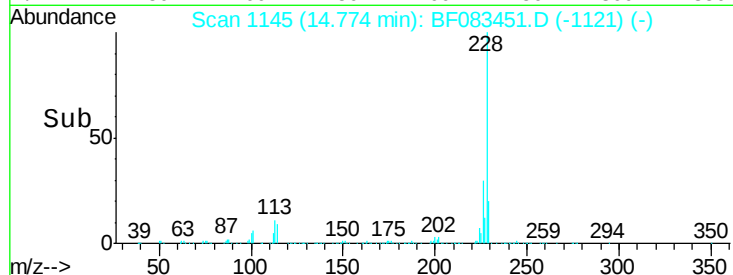
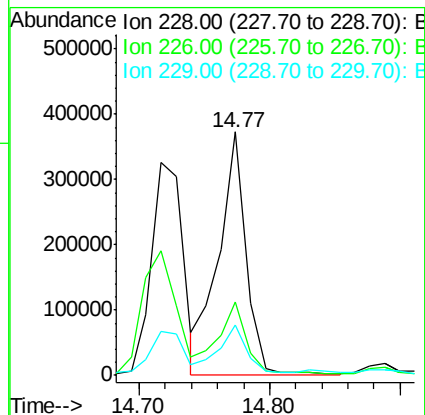
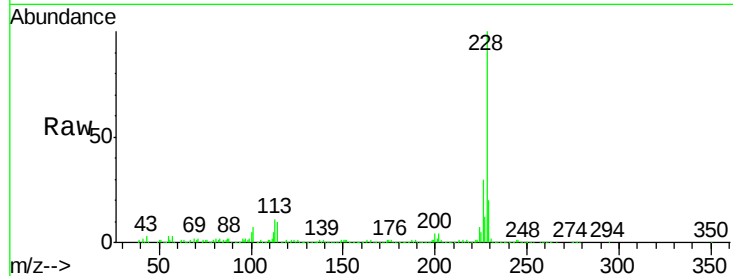
ClientSampleId :

SB-P3WC-08(0-8)

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	20.4	16.2	24.2

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#85

Indeno(1,2,3-cd)pyrene

Concen: 19.75 ng m

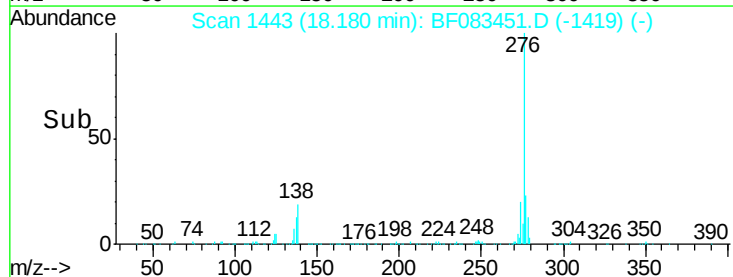
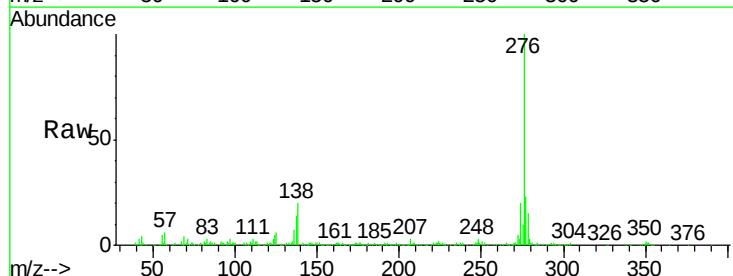
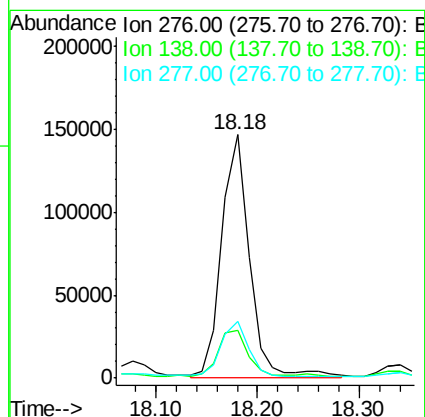
RT: 18.18 min Scan# 1443

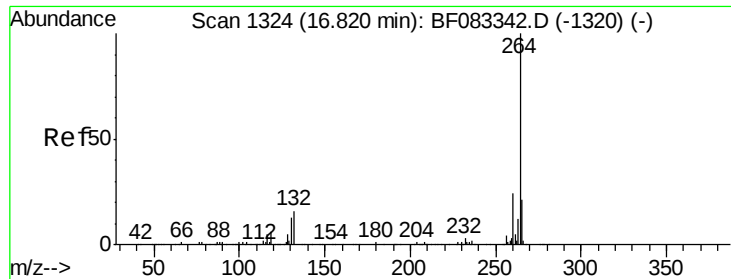
Delta R.T. -0.02 min

Lab File: BF083451.D

Acq: 3 Dec 2015 8:56

Tgt Ion	Ratio	Lower	Upper
276	100		
138	5.3	21.2	31.8#
277	6.7	20.0	30.0#





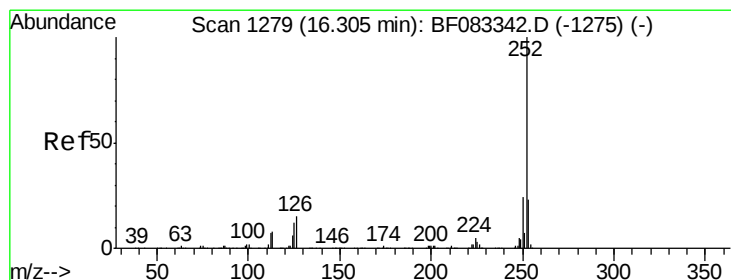
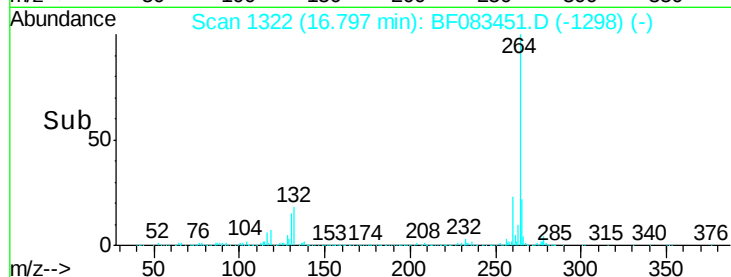
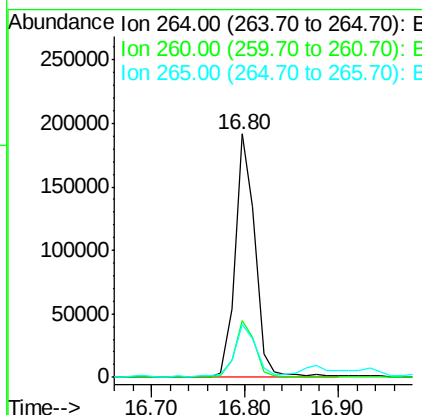
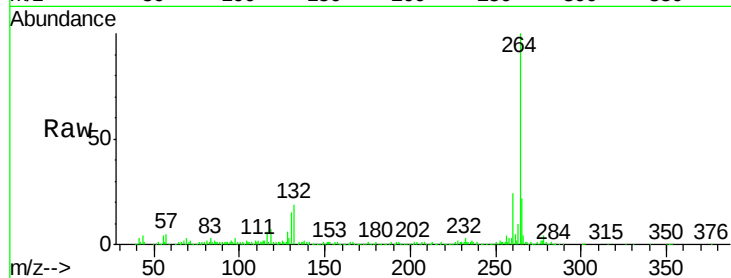
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.80 min Scan# 1322
Delta R.T. -0.02 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.0	28.4
265	21.9	16.8	25.2

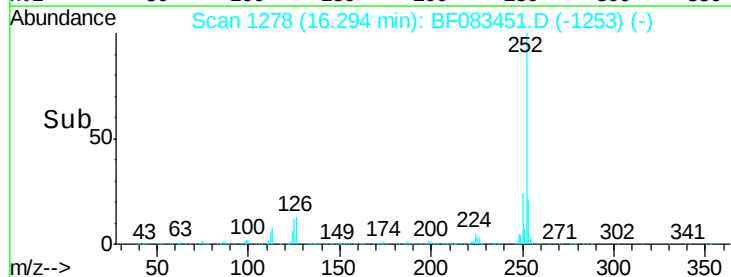
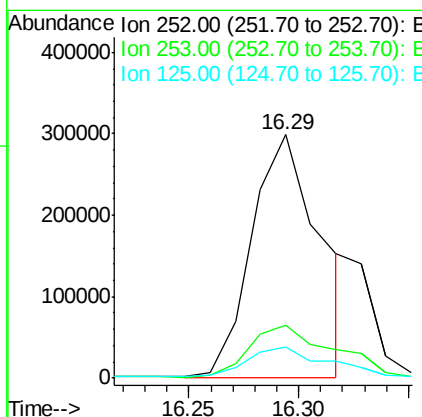
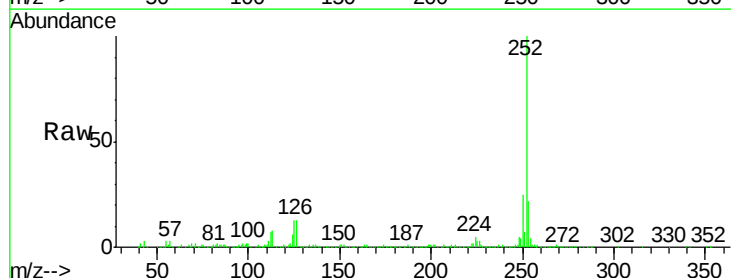
Manual Integrations
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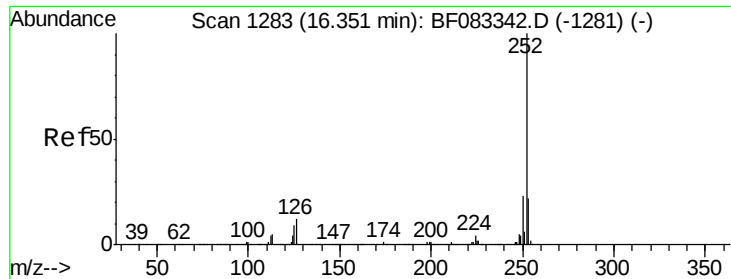
Mmdadoda
12/3/2015 7:10:11 PM



#87
Benzo(b)fluoranthene
Concen: 35.42 ng m
RT: 16.29 min Scan# 1278
Delta R.T. -0.01 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.4	27.6
125	12.6	9.6	14.4





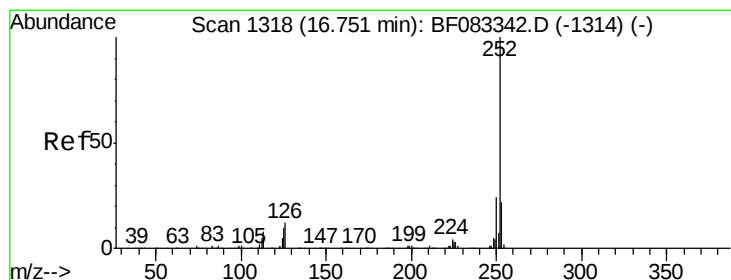
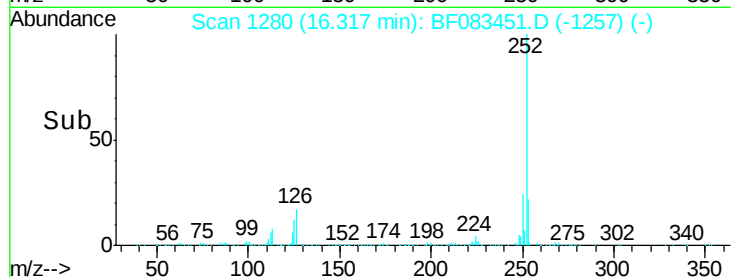
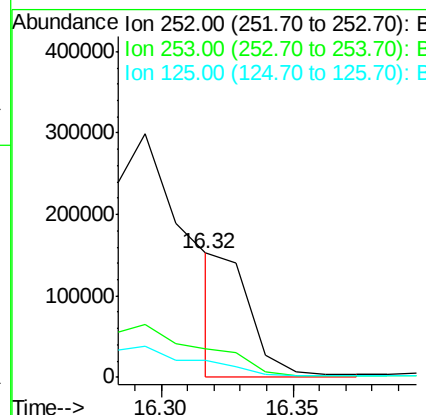
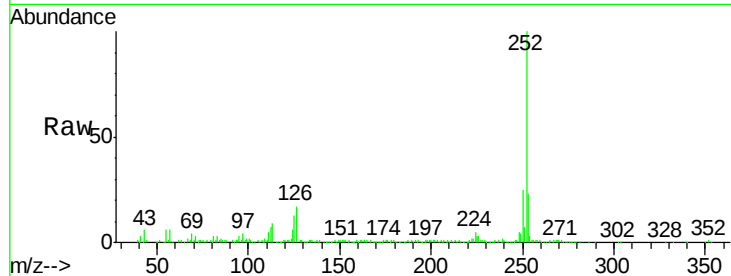
#88
Benzo(k)fluoranthene
Concen: 7.06 ng m
RT: 16.32 min Scan# 1280
Delta R.T. -0.03 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)

Tot Ion	Ratio	Resp	Lower	Upper
252	100	122764		
253	23.0	17.4	26.0	
125	13.3	7.5	11.3#	

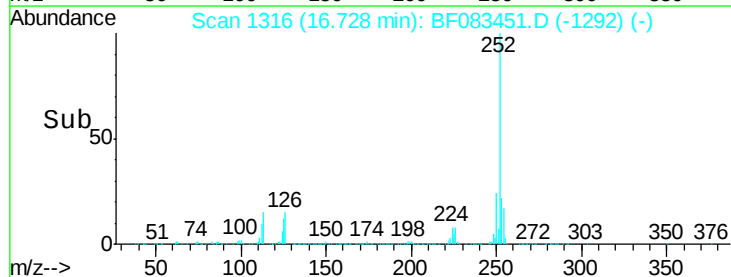
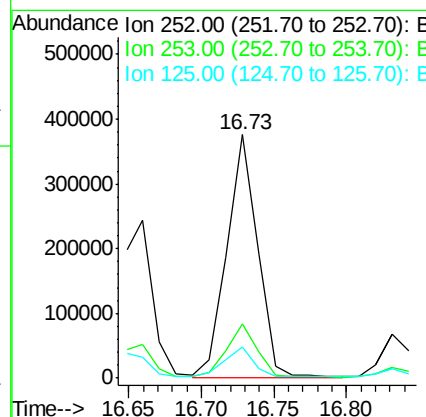
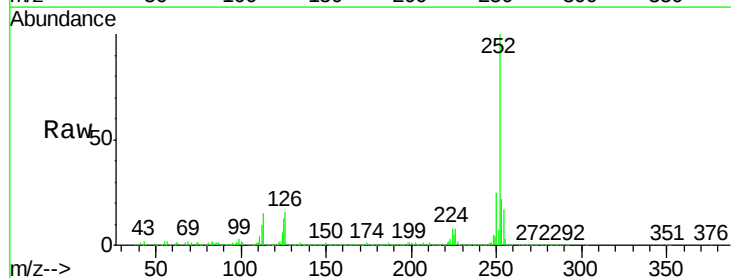
Manual Integrations
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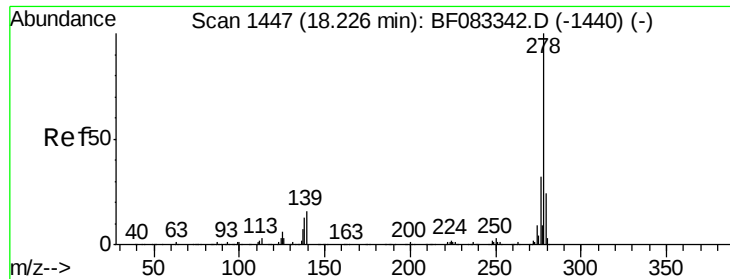
Mmdadoda
12/3/2015 7:10:11 PM



#89
Benzo(a)pyrene
Concen: 34.82 ng
RT: 16.73 min Scan# 1316
Delta R.T. -0.02 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	550475		
253	22.4	17.5	26.3	
125	12.6	7.8	11.8#	





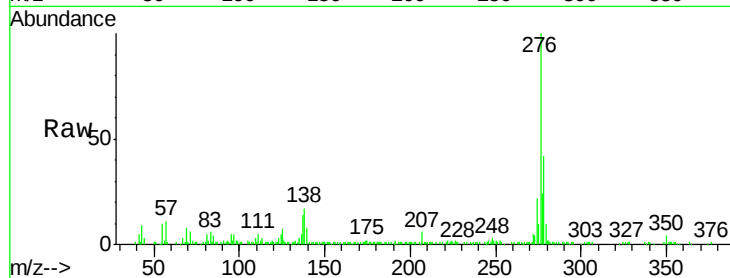
#90
Dibenzo(a,h)anthracene
Concen: 4.42 ng
RT: 18.19 min Scan# 1444
Delta R.T. -0.03 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-08(0-8)

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.4	13.1	19.7
279	24.7	19.2	28.8

Manual Integrations
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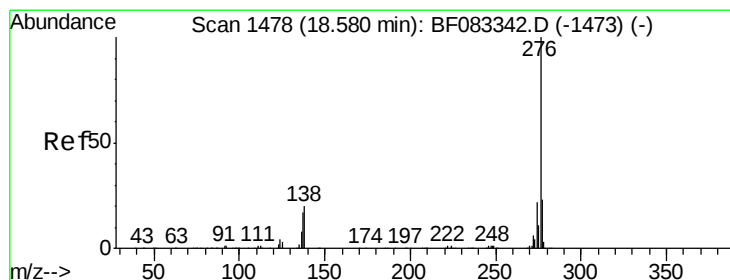
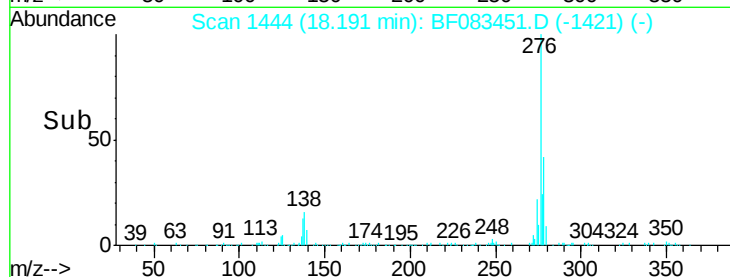
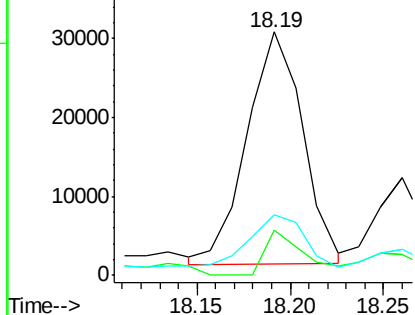


Abundance

Ion 278.00 (277.70 to 278.70): E

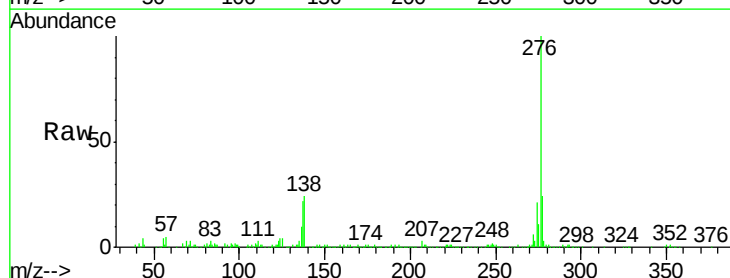
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 21.69 ng
RT: 18.55 min Scan# 1475
Delta R.T. -0.03 min
Lab File: BF083451.D
Acq: 3 Dec 2015 8:56

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.6	28.0
138	23.5	16.1	24.1



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

