

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
 Data File : BF083435.D
 Acq On : 2 Dec 2015 23:51
 Operator : UM/IZ
 Sample : G4582-09
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-06(6-13)

Manual Integrations
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 12/3/2015 7:09:53 PM

Quant Time: Dec 03 06:13:00 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	169871	20.00	ng	-0.01
21) Naphthalene-d8	7.84	136	626972	20.00	ng	0.00
38) Acenaphthene-d10	9.57	164	323700	20.00	ng	-0.01
63) Phenanthrene-d10	11.12	188	597185	20.00	ng	-0.01
75) Chrysene-d12	14.73	240	417564	20.00	ng	-0.03
86) Perylene-d12	16.80	264	396013	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.13	112	1577929	139.39	ng	0.00
7) Phenol-d6	6.21	99	2054798	132.61	ng	-0.01
23) Nitrobenzene-d5	7.12	82	1433280	100.49	ng	-0.01
41) 2,4,6-Tribromophenol	10.36	330	414828	127.66	ng	-0.02
44) 2-Fluorobiphenyl	8.91	172	1741937	76.69	ng	-0.01
78) Terphenyl-d14	13.21	244	1648492	94.15	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.87	128	8816509	259.17	ng	# 89
37) 2-Methylnaphthalene	8.54	142	1715764	75.47	ng	# 96
45) 1,1'-Biphenyl	9.00	154	716060	25.23	ng	95
48) Acenaphthylene	9.44	152	344505	9.98	ng	98
49) Dimethylphthalate	9.31	163	444478	16.90	ng	99
51) Acenaphthene	9.62	154	2151308	106.00	ng	98
54) Dibenzofuran	9.78	168	230261	7.74	ng	# 93
57) Fluorene	10.12	166	1094073m	46.59	ng	
70) Phenanthrene	11.16	178	5089191	144.00	ng	93
71) Anthracene	11.21	178	1450426	40.77	ng	100
74) Fluoranthene	12.66	202	2508007	68.46	ng	95
77) Pylene	12.97	202	3174625	108.86	ng	96
80) Benzo(a)anthracene	14.72	228	948957m	37.09	ng	
82) Chrysene	14.77	228	733085	29.66	ng	100
85) Indeno(1,2,3-cd)pyrene	18.17	276	350392	19.46	ng	96
87) Benzo(b)fluoranthene	16.28	252	683430m	26.90	ng	
88) Benzo(k)fluoranthene	16.32	252	209367m	8.73	ng	
89) Benzo(a)pyrene	16.73	252	811257	37.17	ng	98
90) Dibenz(a,h)anthracene	18.18	278	83704	4.40	ng	98
91) Benzo(a,h,i)perylene	18.53	276	385240	20.64	ng	96

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

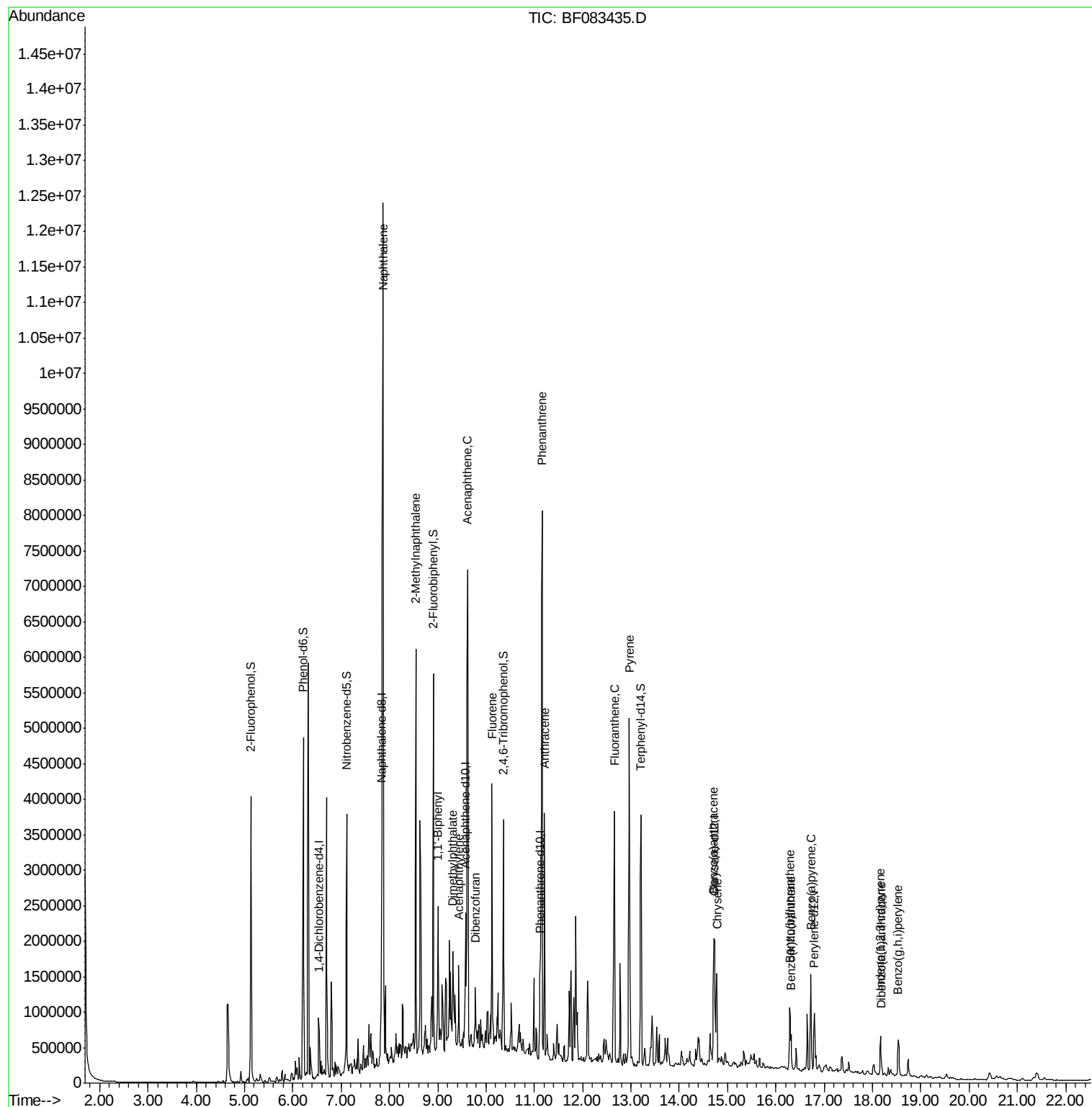
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120215\
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#1

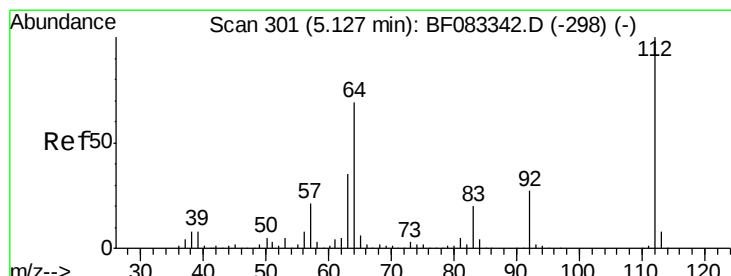
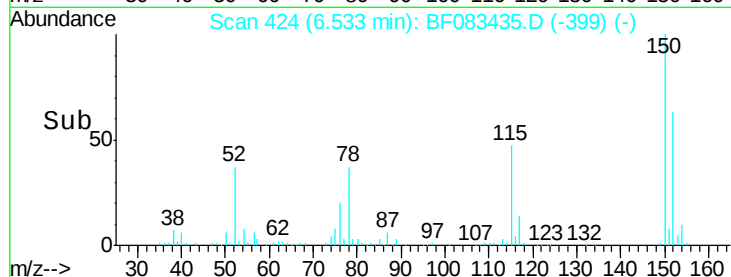
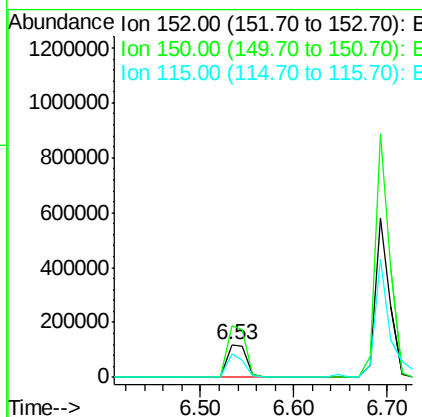
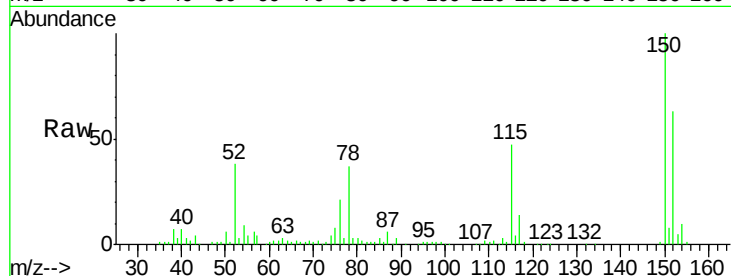
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.53 min Scan# 424
Delta R.T. -0.01 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(6-13)

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.8	129.8	194.8
115	74.1	59.2	88.8

Manual Integrations
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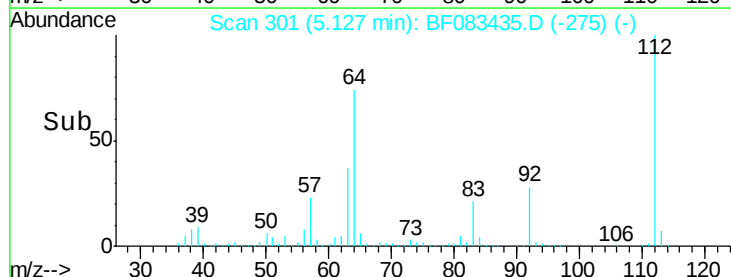
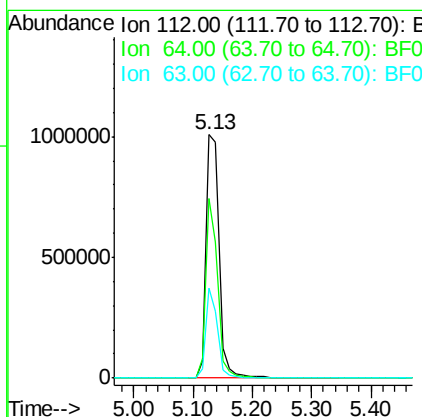
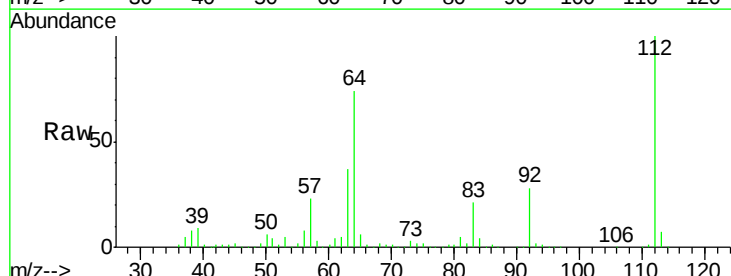
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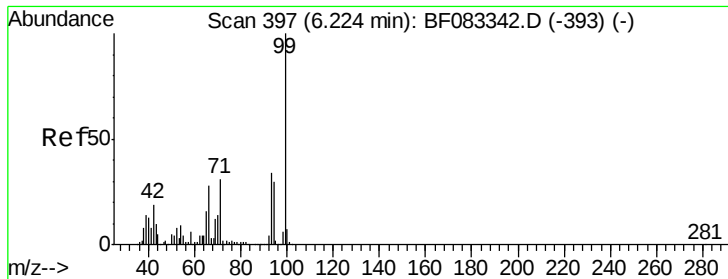


#5

2-Fluorophenol
Concen: 139.39 ng
RT: 5.13 min Scan# 301
Delta R.T. 0.00 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	73.7	55.6	83.4
63	37.1	28.2	42.2





#7

Phenol-d6

Concen: 132.61 ng

RT: 6.21 min Scan# 396

Delta R.T. -0.01 min

Lab File: BF083435.D

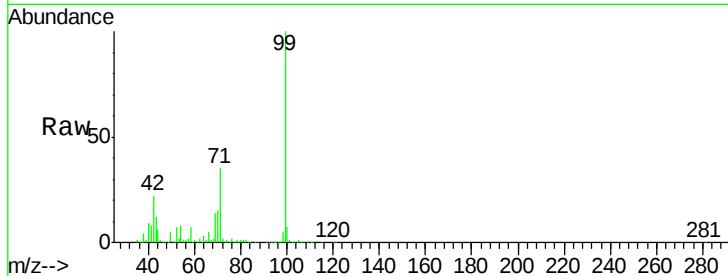
Acq: 2 Dec 2015 23:51

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-06(6-13)



Tot Ion: 99 Resp: 2054798

Ion Ratio Lower Upper

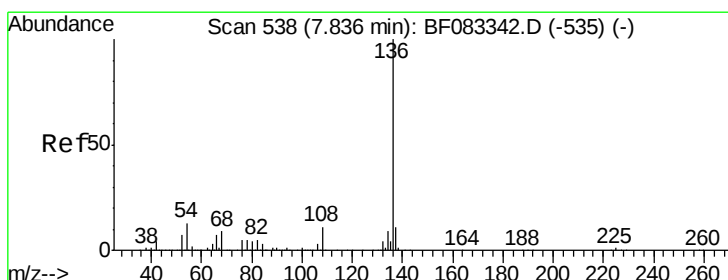
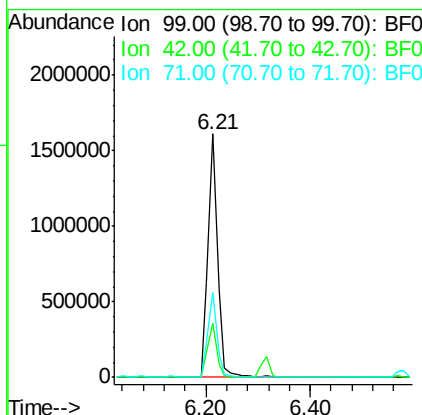
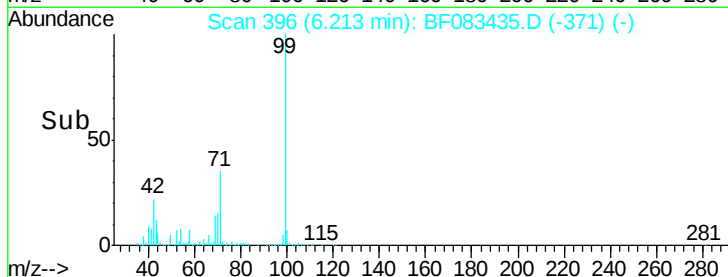
99 100

42 22.4 14.9 22.3#

71 35.1 24.7 37.1

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.84 min Scan# 538

Delta R.T. 0.00 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Tgt Ion: 136 Resp: 626972

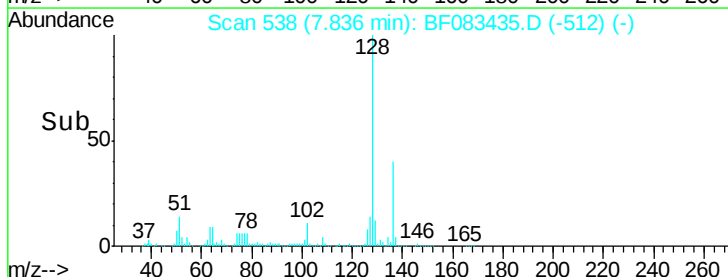
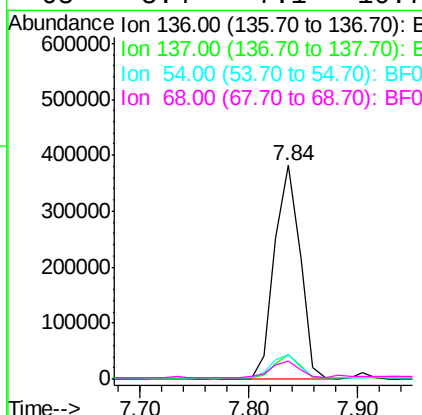
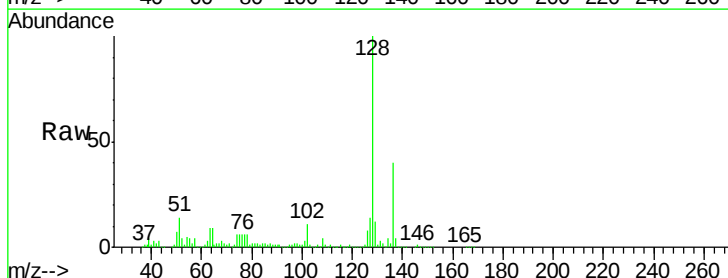
Ion Ratio Lower Upper

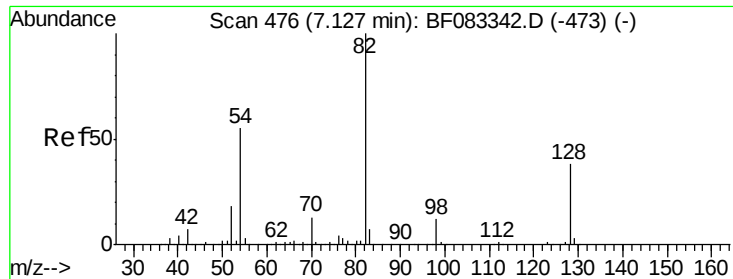
136 100

137 11.1 9.0 13.4

54 11.4 10.1 15.1

68 8.4 7.1 10.7





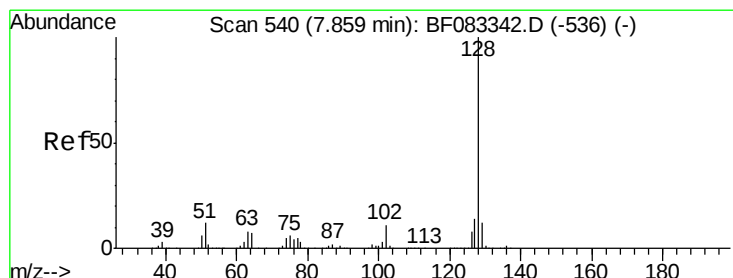
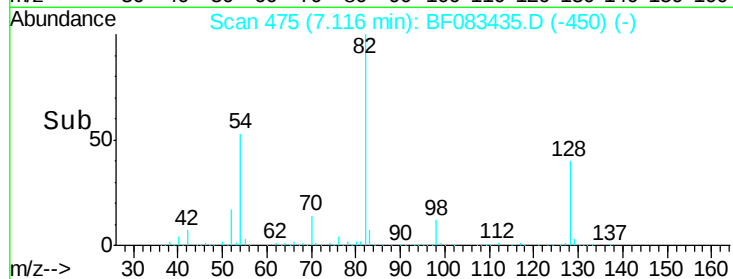
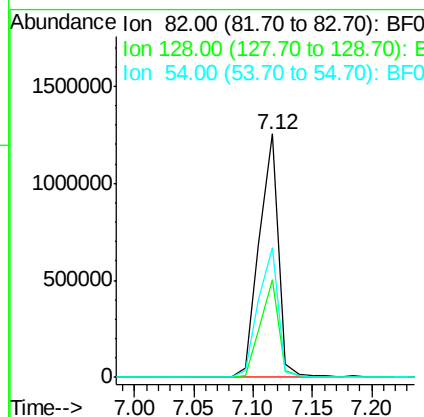
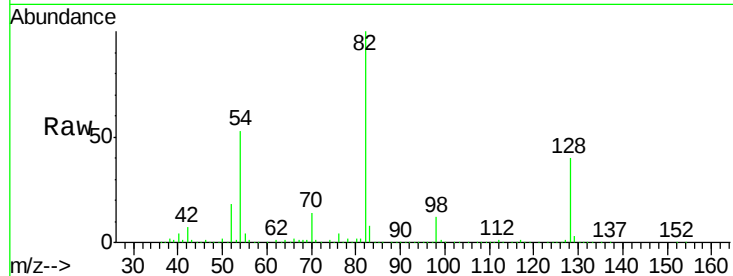
#23
Nitrobenzene-d5
Concen: 100.49 ng
RT: 7.12 min Scan# 475
Delta R.T. -0.01 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(6-13)

Tot Ion	82	Resp	1433280
Ion Ratio	Lower	Upper	
82	100		
128	39.9	30.6	46.0
54	53.3	43.8	65.6

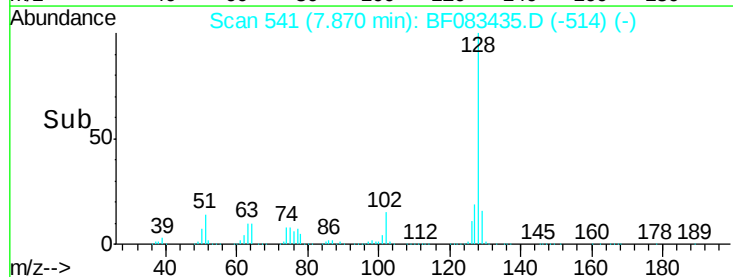
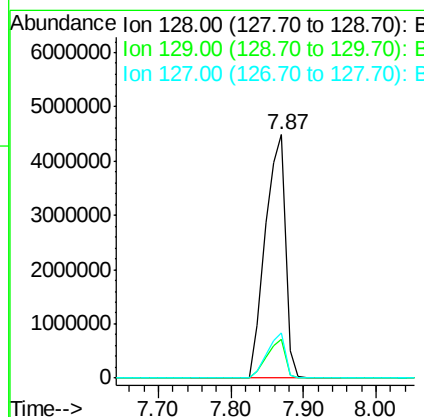
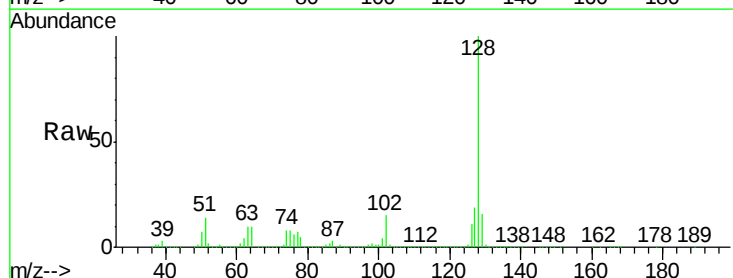
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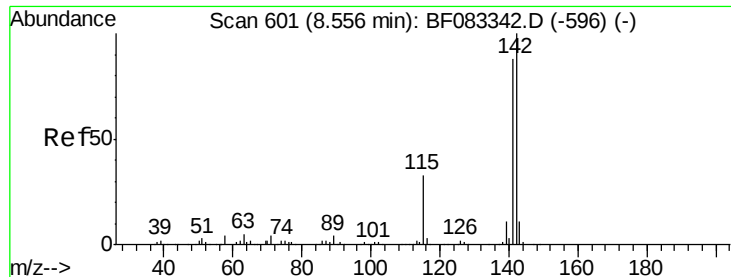
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#31
Naphthalene
Concen: 259.17 ng
RT: 7.87 min Scan# 541
Delta R.T. 0.01 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Tgt Ion	128	Resp	8816509
Ion Ratio	Lower	Upper	
128	100		
129	15.8	9.7	14.5#
127	18.8	11.0	16.4#





#37

2-Methylnaphthalene

Concen: 75.47 ng

RT: 8.54 min Scan# 600

Delta R.T. -0.01 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Instrument :

BNA_F

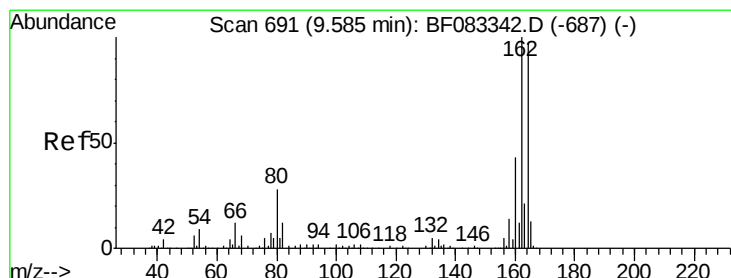
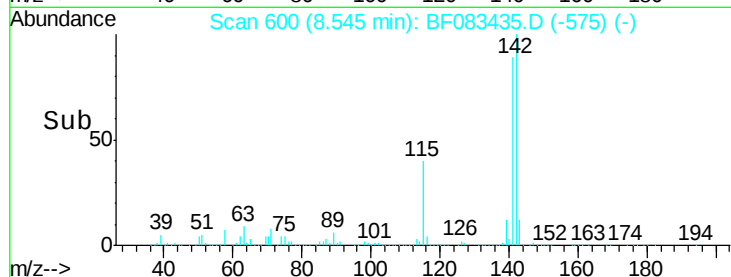
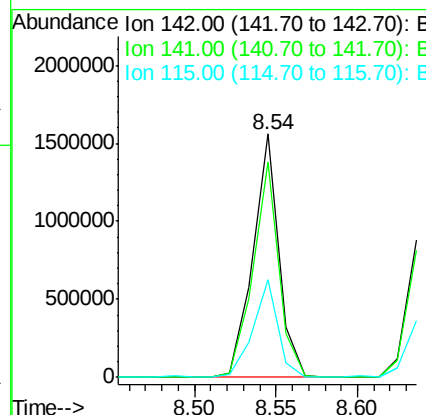
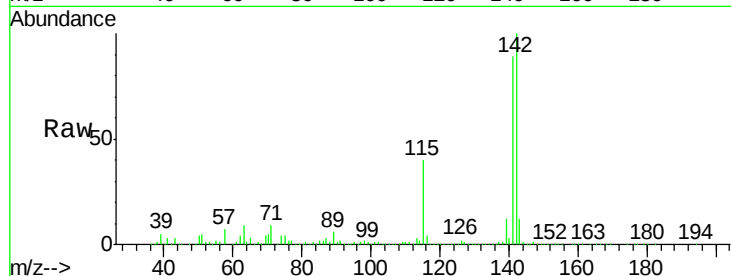
ClientSampleId :

SB-P3WC-06(6-13)

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Tot Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.6	105.8
115	40.1	26.2	39.2



#38

Acenaphthene-d10

Concen: 20.00 ng

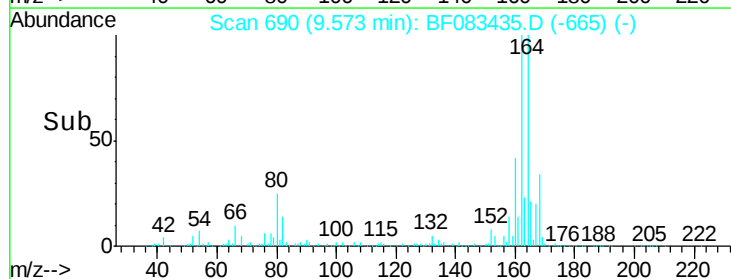
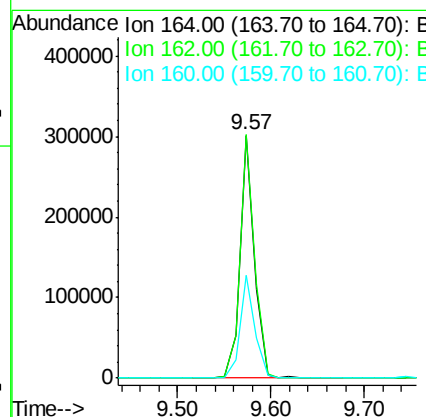
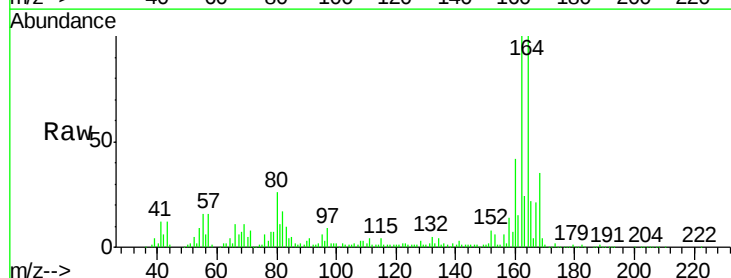
RT: 9.57 min Scan# 690

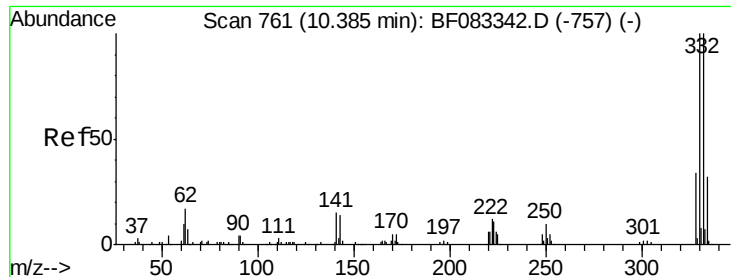
Delta R.T. -0.01 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.2	82.6	123.8
160	42.5	35.3	52.9





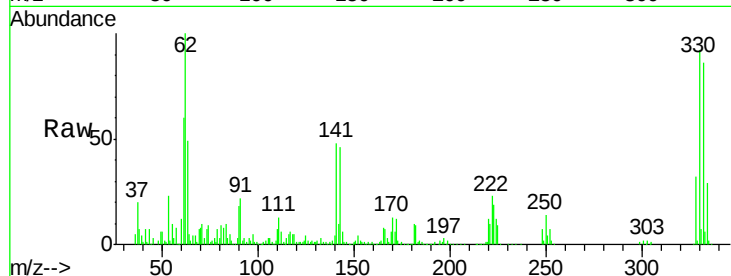
#41
 2,4,6-Tribromophenol
 Concen: 127.66 ng
 RT: 10.36 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: BF083435.D
 Acq: 2 Dec 2015 23:51

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-06(6-13)

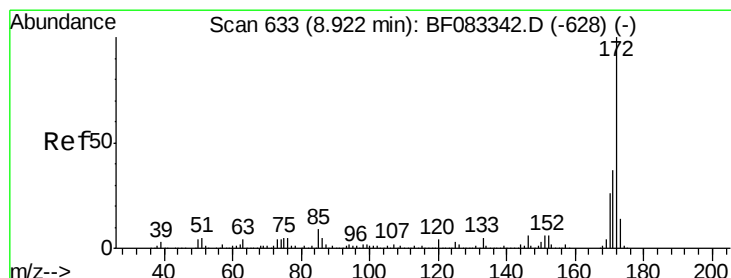
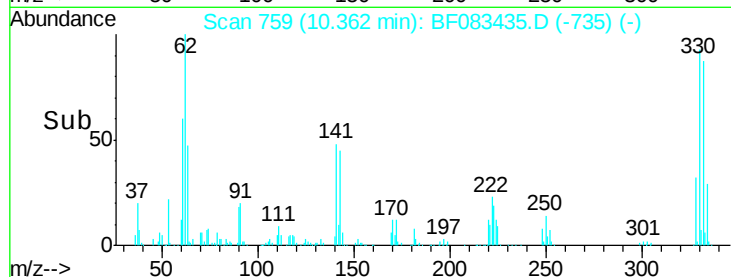
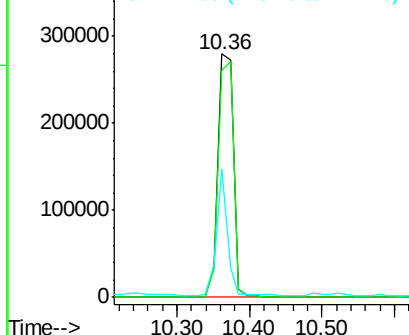
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.4	77.8	116.6	
141	36.9	29.4	44.0	

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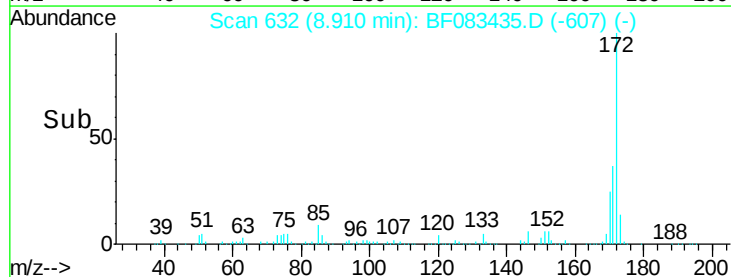
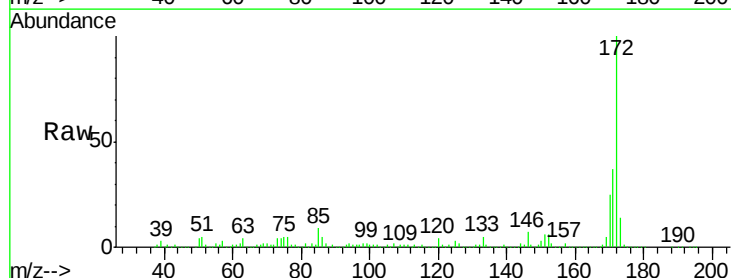
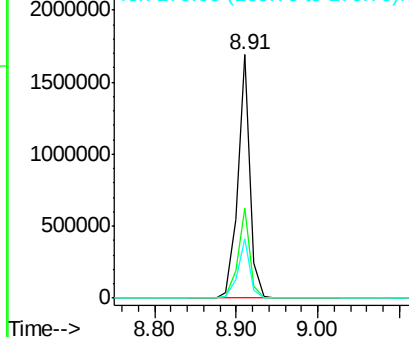
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

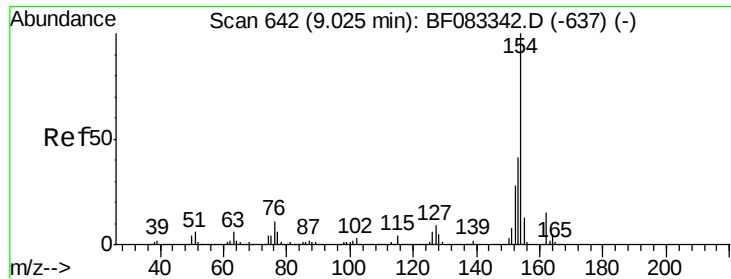


#44
 2-Fluorobiphenyl
 Concen: 76.69 ng
 RT: 8.91 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: BF083435.D
 Acq: 2 Dec 2015 23:51

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	37.1	29.4	44.0	
170	24.6	20.4	30.6	

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





#45

1,1'-Biphenyl

Concen: 25.23 ng

RT: 9.00 min Scan# 640

Delta R.T. -0.02 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Instrument :

BNA_F

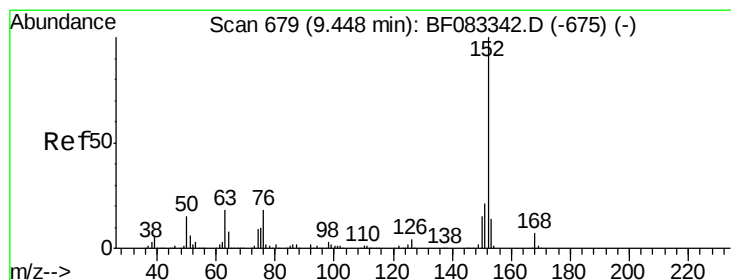
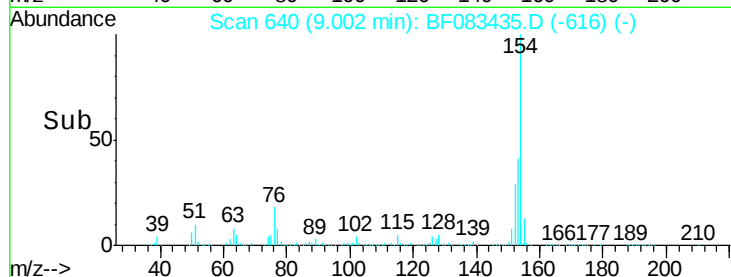
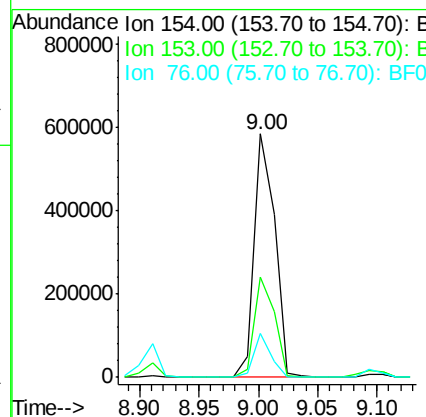
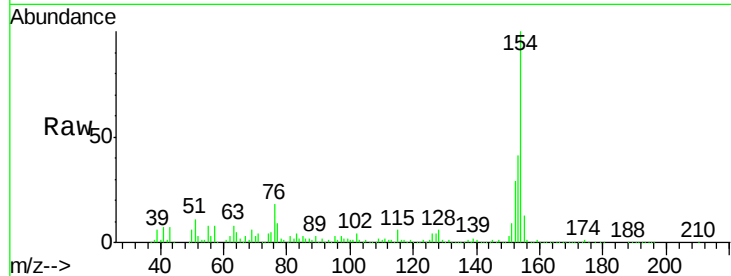
ClientSampleId :

SB-P3WC-06(6-13)

Tot Ion:	154	Resp:	716060
Ion Ratio		Lower	Upper
154	100		
153	40.9	20.6	60.6
76	18.2	0.0	30.5

Manual Integrations
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#48

Acenaphthylene

Concen: 9.98 ng

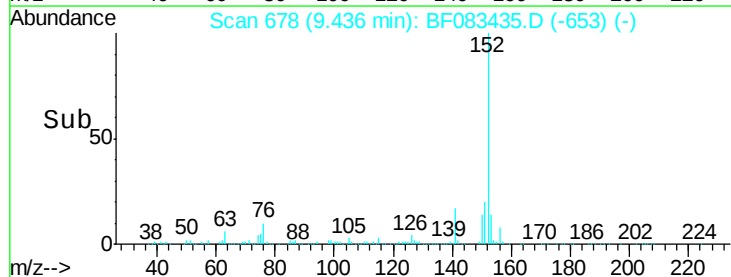
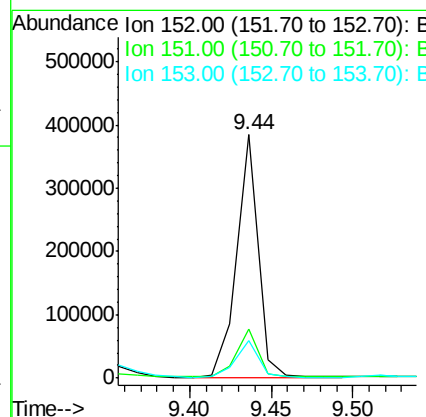
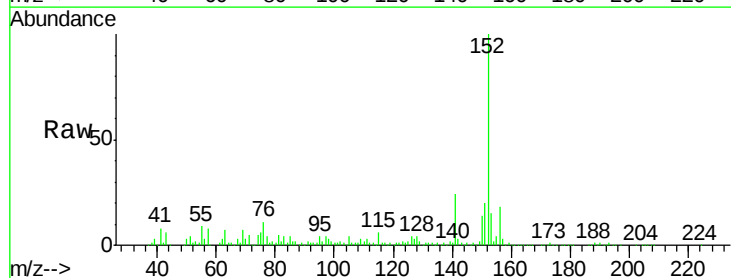
RT: 9.44 min Scan# 678

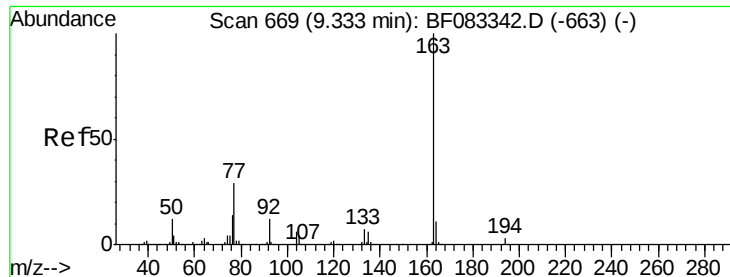
Delta R.T. -0.01 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Tgt Ion:	152	Resp:	344505
Ion Ratio		Lower	Upper
152	100		
151	20.1	16.7	25.1
153	15.3	11.2	16.8





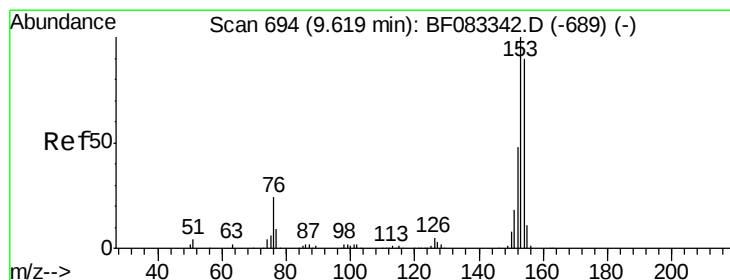
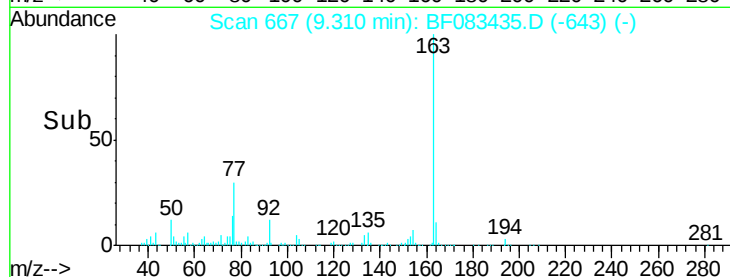
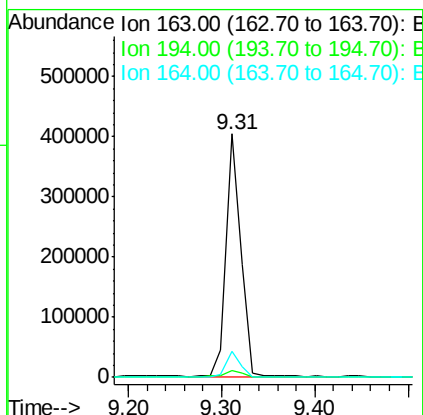
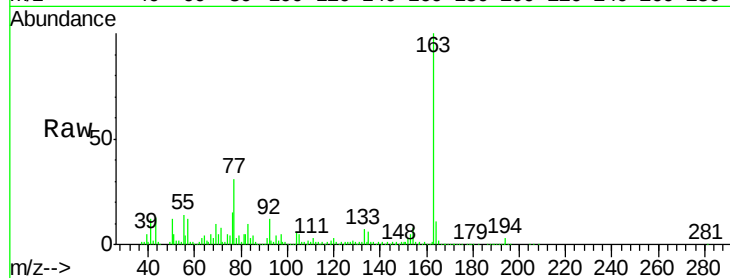
#49
Dimethylphthalate
Concen: 16.90 ng
RT: 9.31 min Scan# 667
Delta R.T. -0.02 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(6-13)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
163	100		444478		
194	3.0		2.7	4.1	
164	10.8		8.8	13.2	

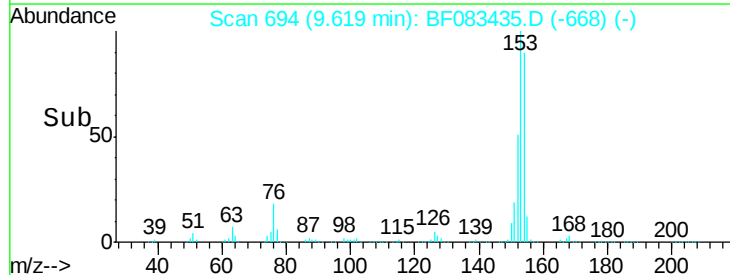
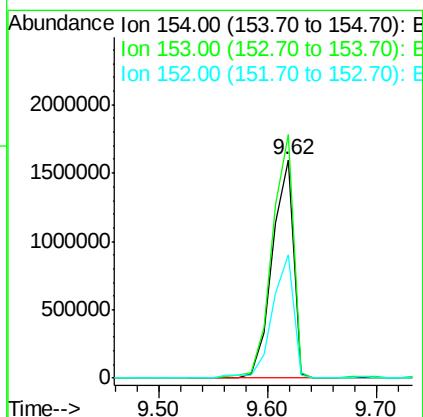
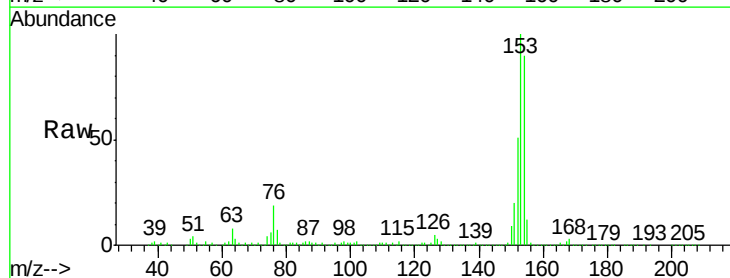
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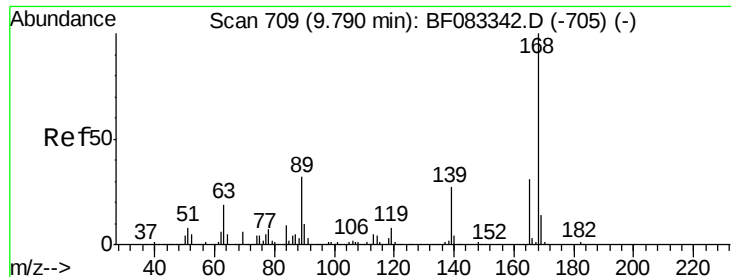
Mmdadoda
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#51
Acenaphthene
Concen: 106.00 ng
RT: 9.62 min Scan# 694
Delta R.T. 0.00 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
154	100		2151308		
153	111.5		89.3	133.9	
152	56.6		42.5	63.7	





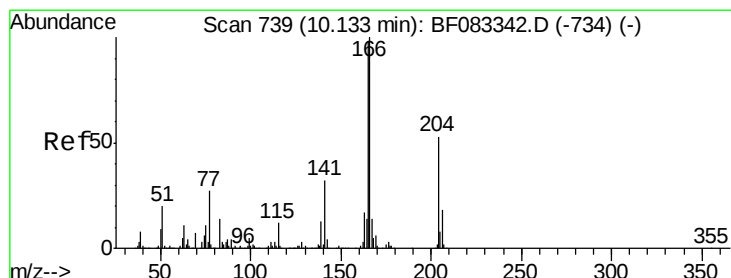
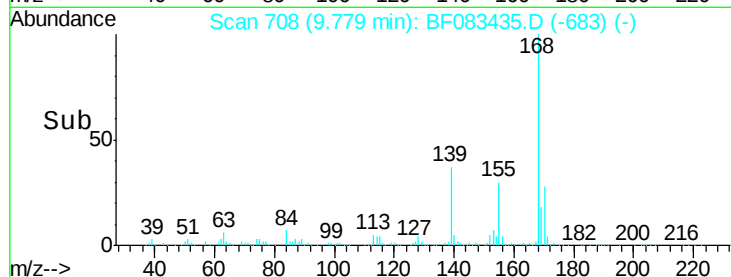
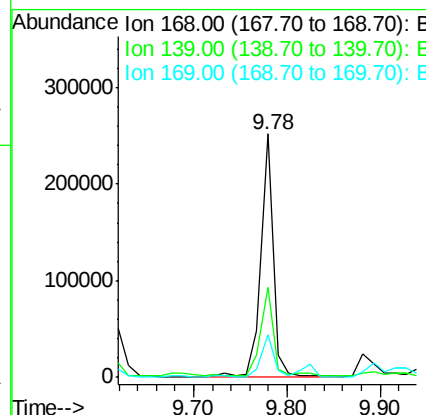
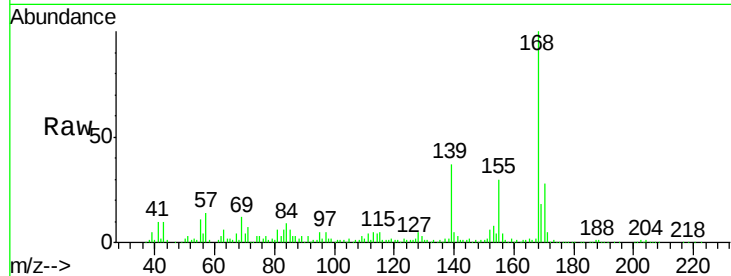
#54
Dibenzofuran
Concen: 7.74 ng
RT: 9.78 min Scan# 708
Delta R.T. -0.01 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(6-13)

Tot Ion	Ratio	Lower	Upper
168	100		
139	37.0	32.7	49.1
169	17.6	11.1	16.7

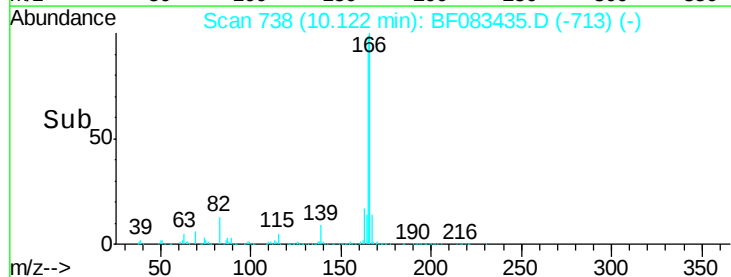
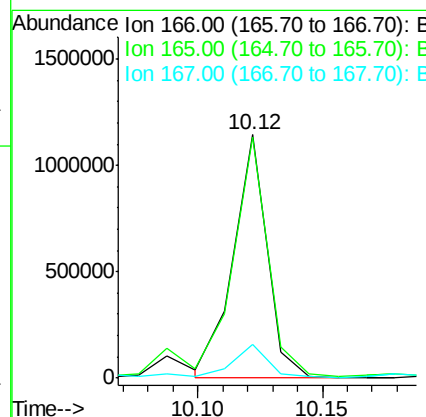
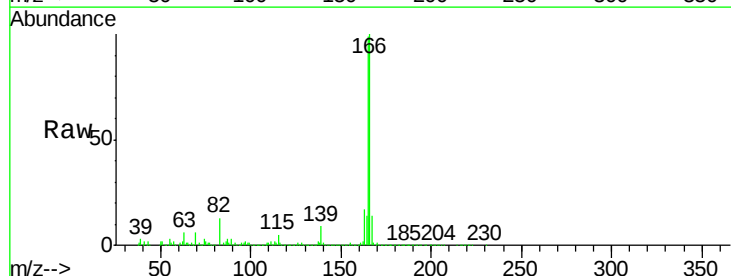
Manual Integrations
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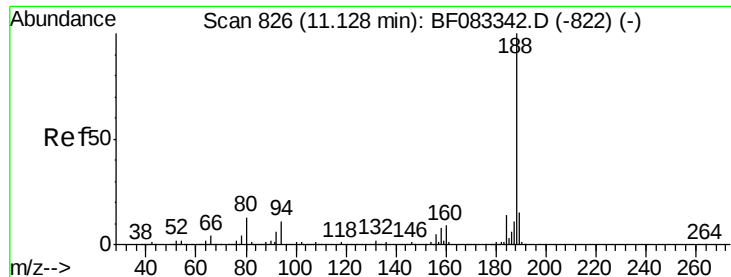
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#57
Fluorene
Concen: 46.59 ng m
RT: 10.12 min Scan# 738
Delta R.T. -0.01 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.3	117.5
167	14.0	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: BF083435.D

Acq: 2 Dec 2015 23:51

Instrument :

BNA_F

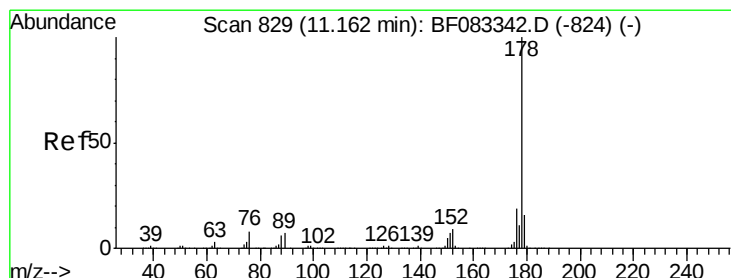
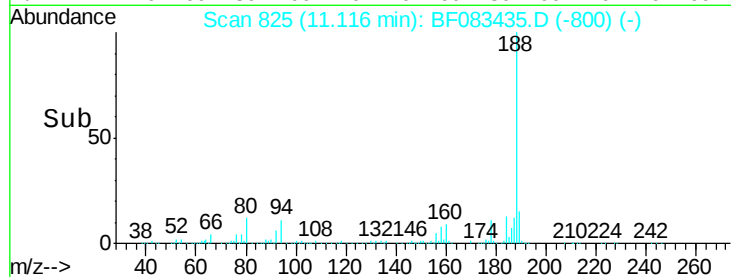
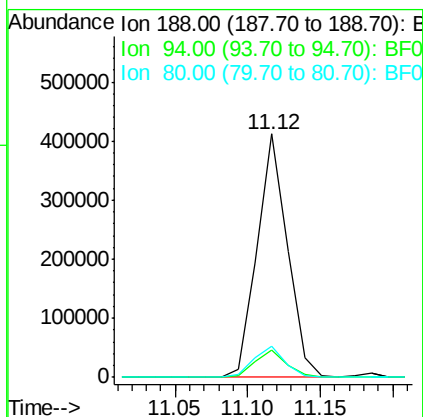
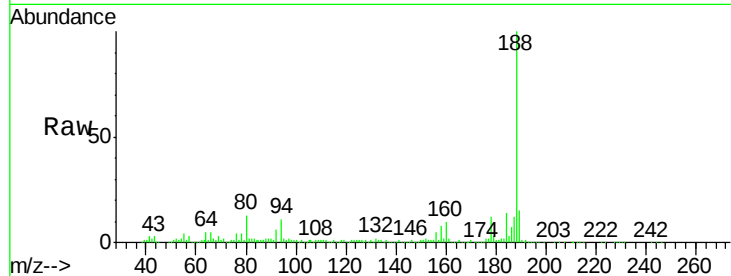
ClientSampleId :

SB-P3WC-06(6-13)

Tot Ion:	188	Resp:	597185
Ion Ratio	Lower	Upper	
188	100		
94	11.3	8.7	13.1
80	12.7	10.3	15.5

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#70

Phenanthrene

Concen: 144.00 ng

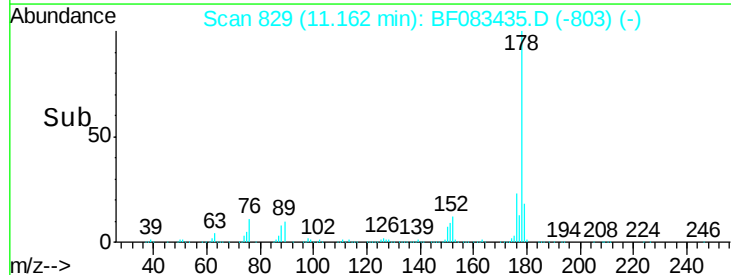
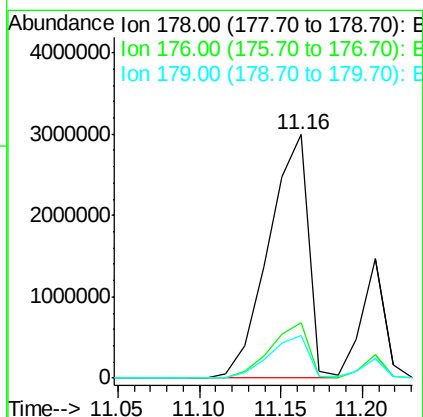
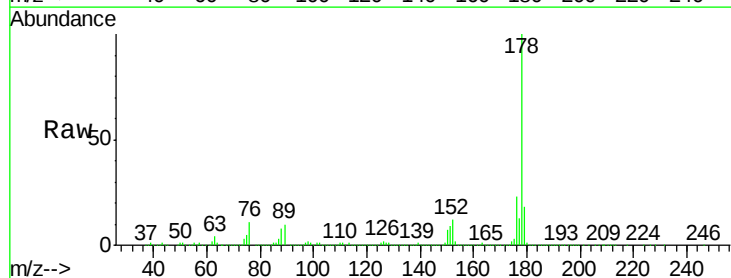
RT: 11.16 min Scan# 829

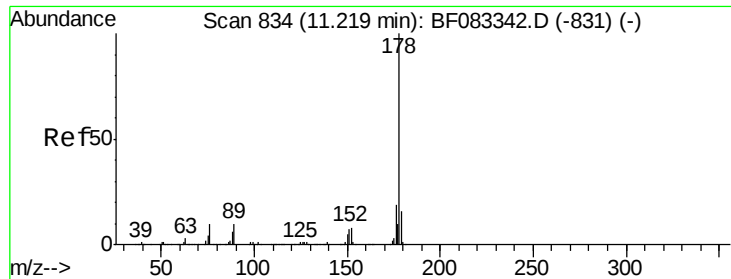
Delta R.T. 0.00 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Tgt Ion:	178	Resp:	5089191
Ion Ratio	Lower	Upper	
178	100		
176	22.8	15.3	22.9
179	17.6	12.4	18.6





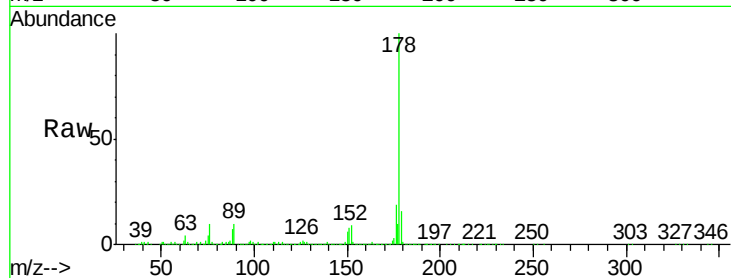
#71
 Anthracene
 Concen: 40.77 ng
 RT: 11.21 min Scan# 833
 Delta R.T. -0.01 min
 Lab File: BF083435.D
 Acq: 2 Dec 2015 23:51

Instrument :
 BNA_F
 ClientSampleId :
 SB-P3WC-06(6-13)

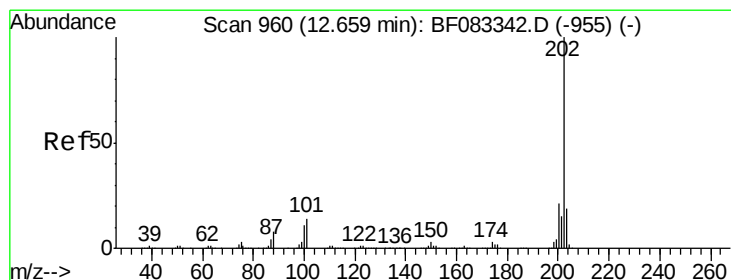
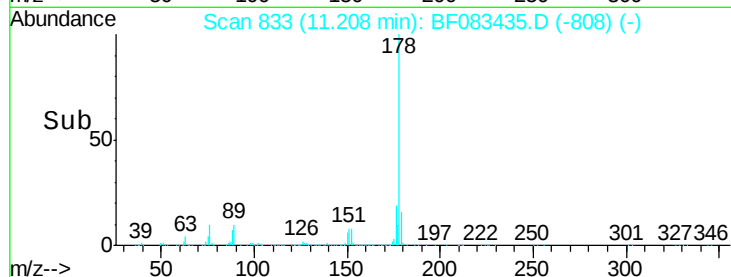
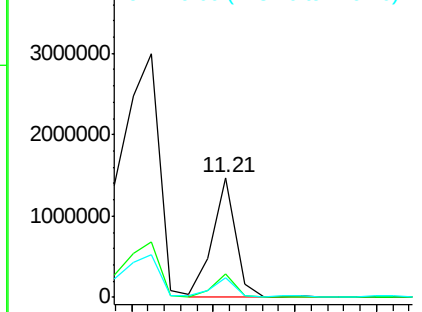
Tot Ion:178 Resp: 1450426
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.6 23.4
 179 16.2 12.8 19.2

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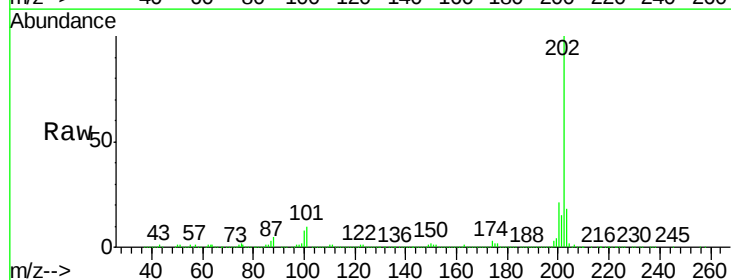


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

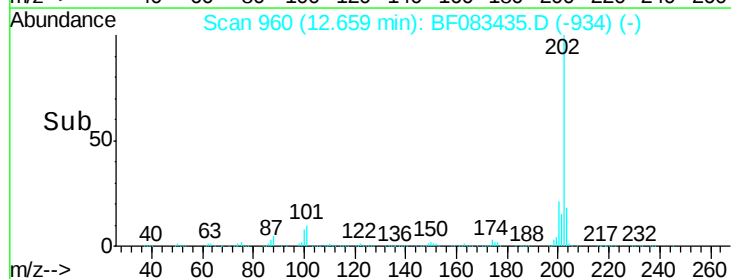
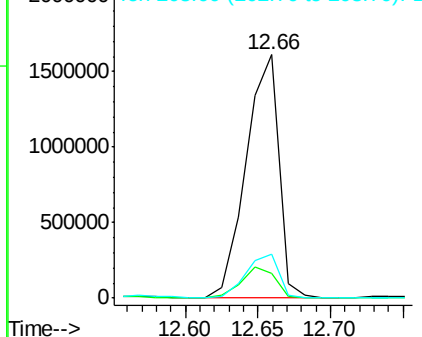


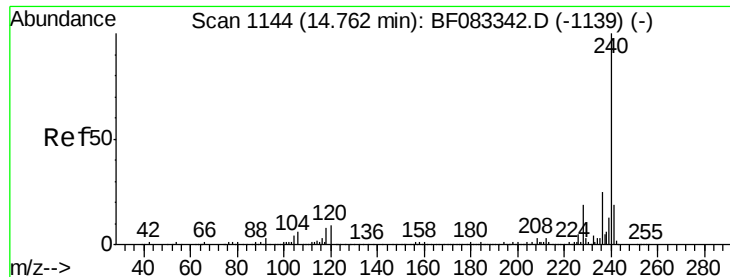
#74
 Fluoranthene
 Concen: 68.46 ng
 RT: 12.66 min Scan# 960
 Delta R.T. 0.00 min
 Lab File: BF083435.D
 Acq: 2 Dec 2015 23:51

Tgt Ion:202 Resp: 2508007
 Ion Ratio Lower Upper
 202 100
 101 10.3 0.0 34.5
 203 18.1 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: 14.73 min Scan# 1141

Delta R.T. -0.03 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Instrument :

BNA_F

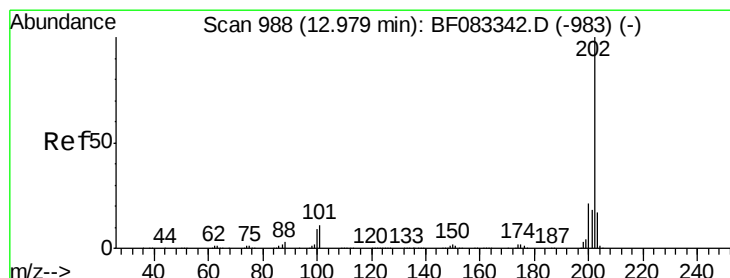
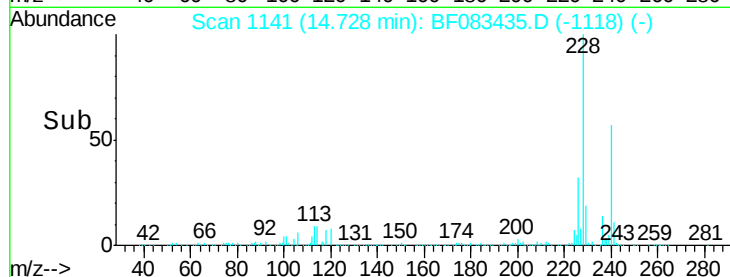
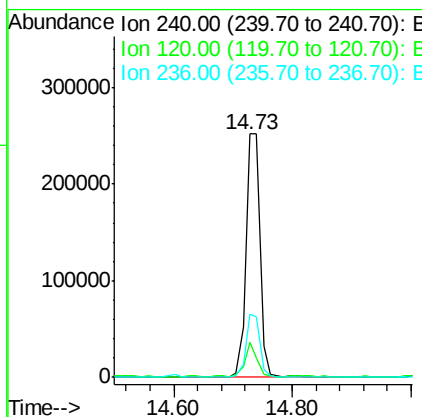
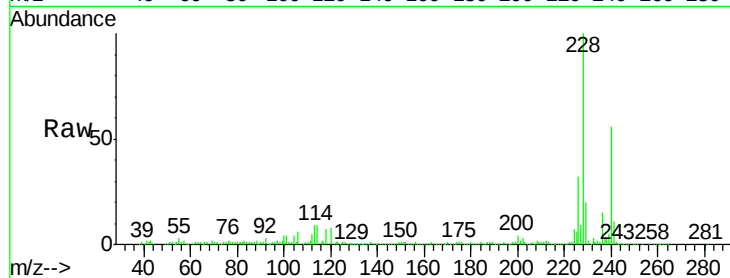
ClientSampleId :

SB-P3WC-06(6-13)

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.4	6.9	10.3#
236	26.1	19.8	29.6

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#77

Pyrene

Concen: 108.86 ng

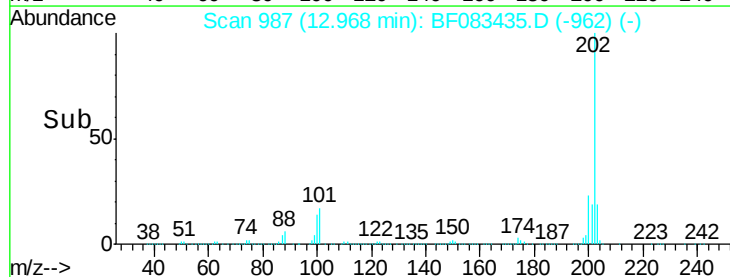
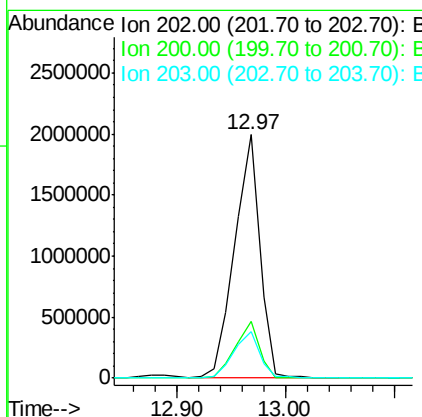
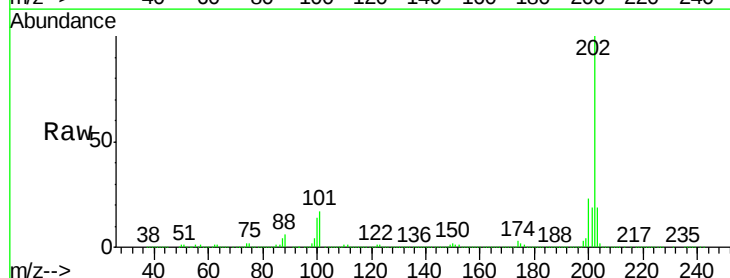
RT: 12.97 min Scan# 987

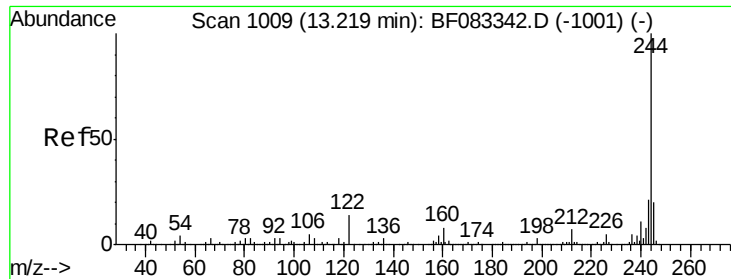
Delta R.T. -0.01 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	23.1	16.9	25.3
203	18.9	13.9	20.9





#78

Terphenyl-d14

Concen: 94.15 ng

RT: 13.21 min Scan# 1008

Delta R.T. -0.01 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Instrument :

BNA_F

ClientSampleId :

SB-P3WC-06(6-13)

Tot Ion:244 Resp: 1648492

Ion Ratio Lower Upper

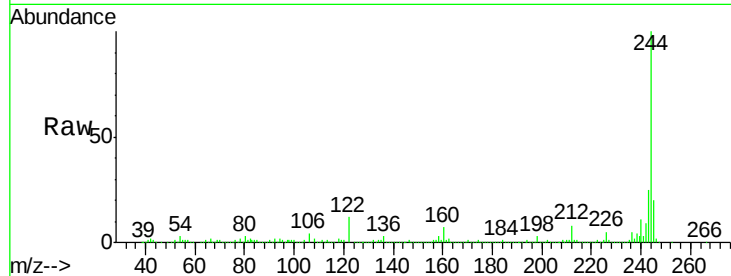
244 100

212 7.5 5.8 8.8

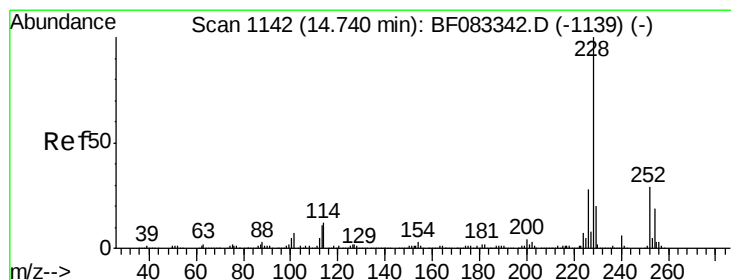
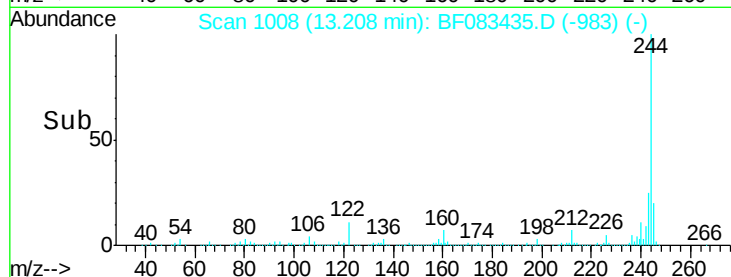
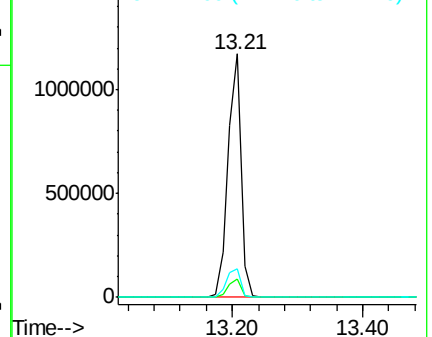
122 11.5 11.0 16.4

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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: 37.09 ng m

RT: 14.72 min Scan# 1140

Delta R.T. -0.02 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

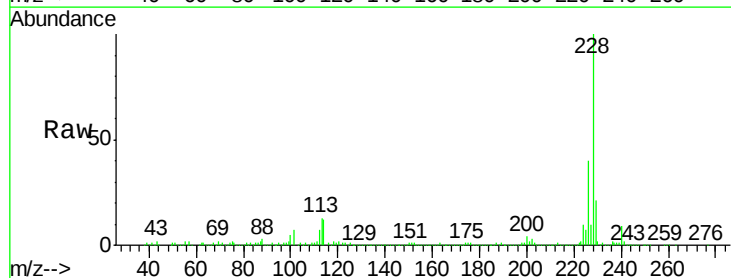
Tgt Ion:228 Resp: 948957

Ion Ratio Lower Upper

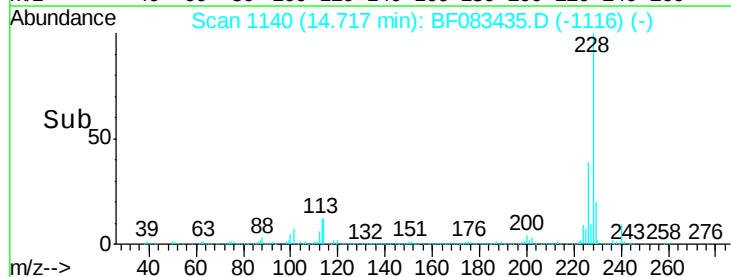
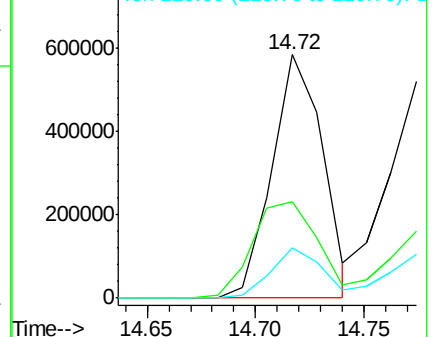
228 100

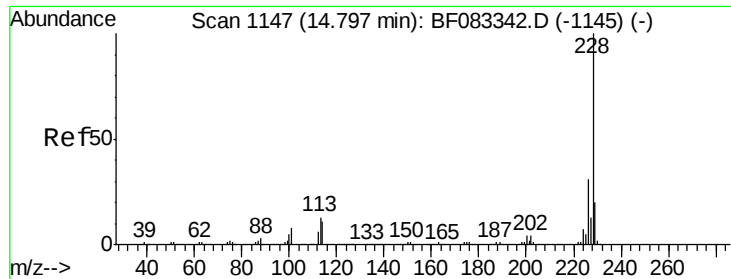
226 39.9 22.2 33.4#

229 20.6 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: 29.66 ng

RT: 14.77 min Scan# 1145

Delta R.T. -0.02 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Instrument :

BNA_F

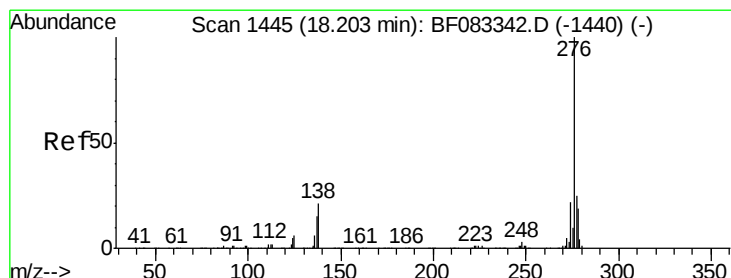
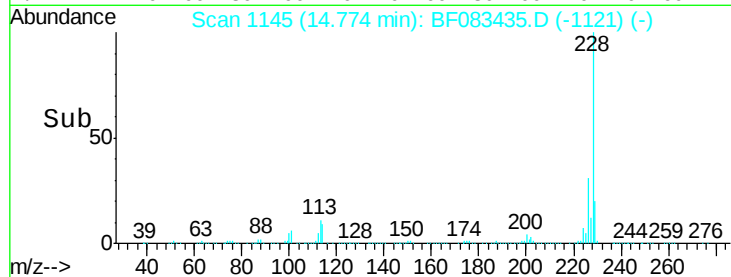
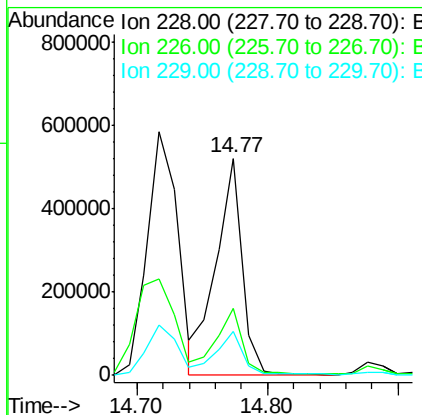
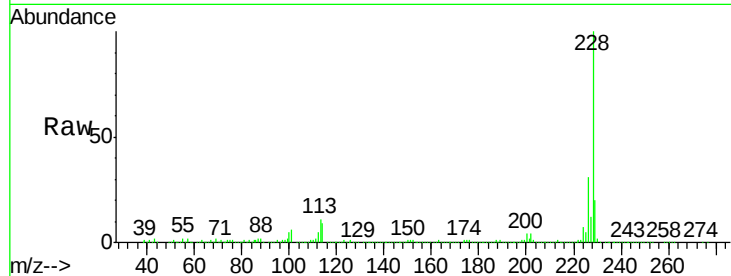
ClientSampleId :

SB-P3WC-06(6-13)

Tot Ion	Ion	Ratio	Resp	Lower	Upper
228	100		733085		
226	31.0		24.6	37.0	
229	20.3		16.2	24.2	

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#85

Indeno(1,2,3-cd)pyrene

Concen: 19.46 ng

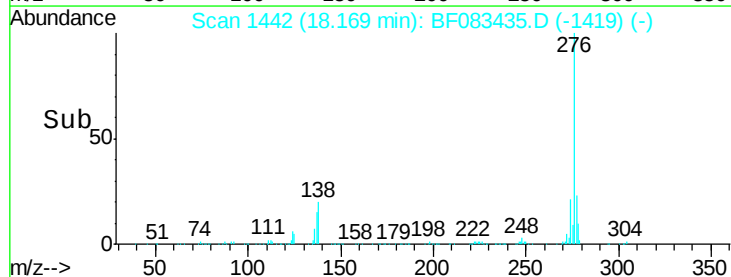
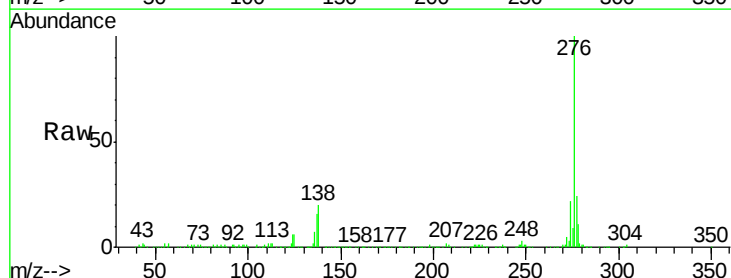
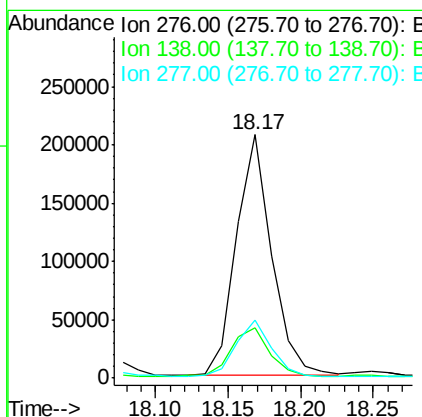
RT: 18.17 min Scan# 1442

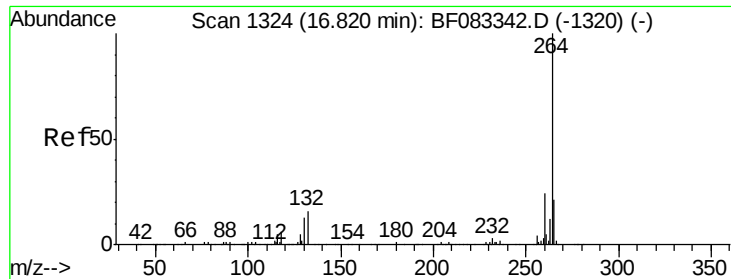
Delta R.T. -0.03 min

Lab File: BF083435.D

Acq: 2 Dec 2015 23:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
276	100		350392		
138	22.8		21.2	31.8	
277	24.5		20.0	30.0	





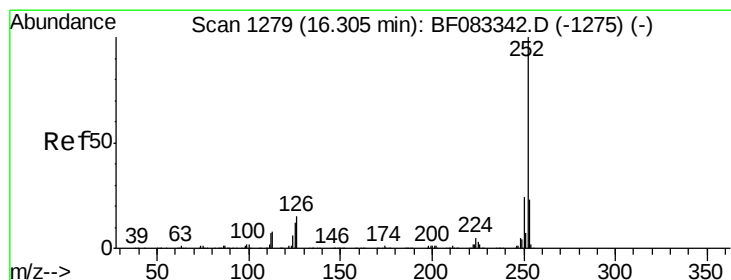
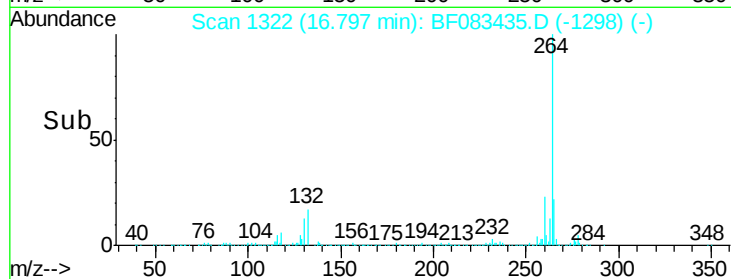
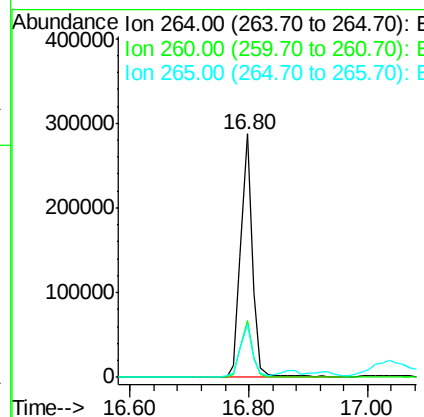
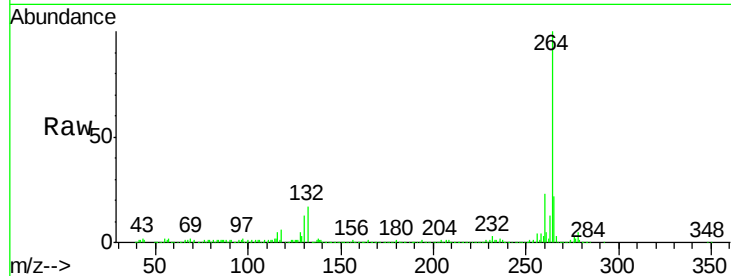
#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.80 min Scan# 1322
Delta R.T. -0.02 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(6-13)

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

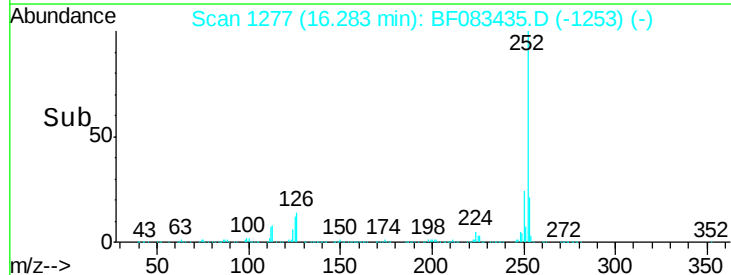
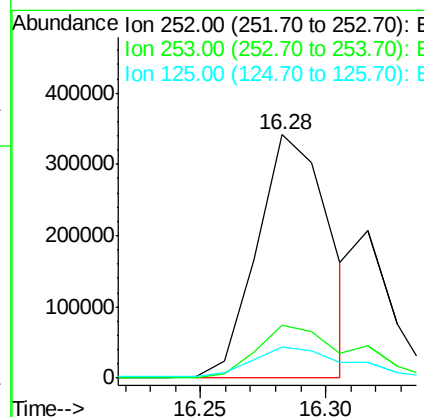
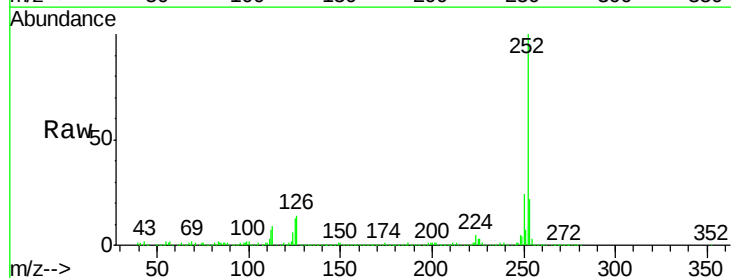
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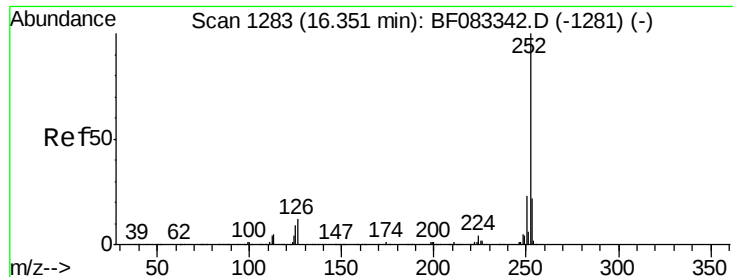
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#87
Benzo(b)fluoranthene
Concen: 26.90 ng m
RT: 16.28 min Scan# 1277
Delta R.T. -0.02 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	21.6	18.4	27.6	
125	12.6	9.6	14.4	





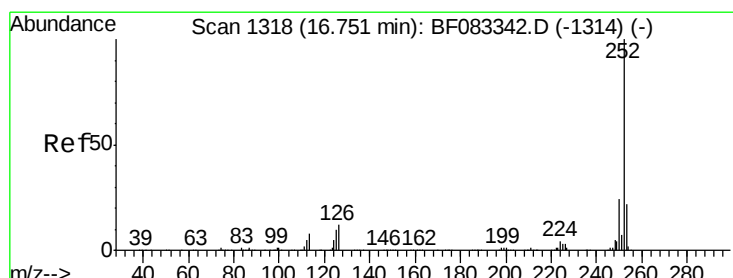
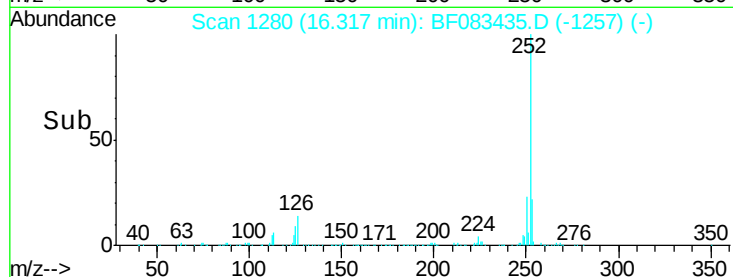
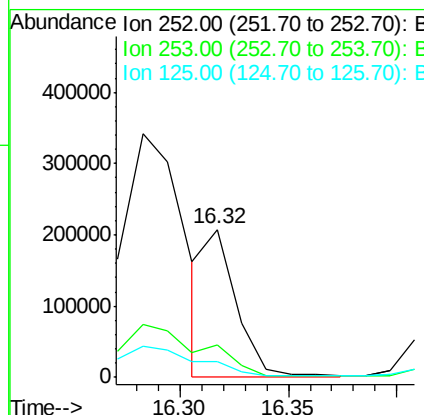
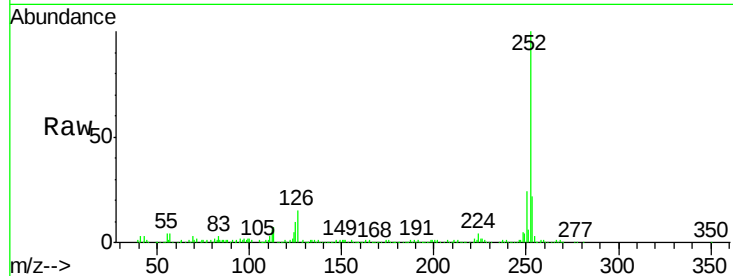
#88
Benzo(k)fluoranthene
Concen: 8.73 ng m
RT: 16.32 min Scan# 1280
Delta R.T. -0.03 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(6-13)

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.0
125	10.4	7.5	11.3

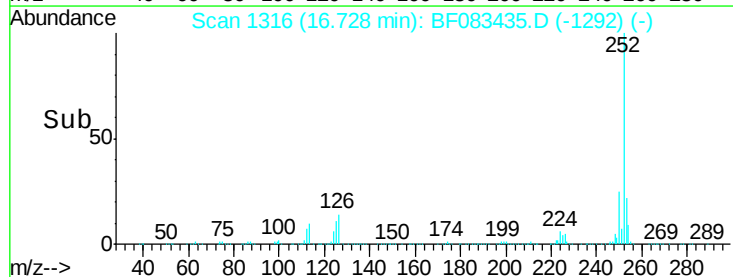
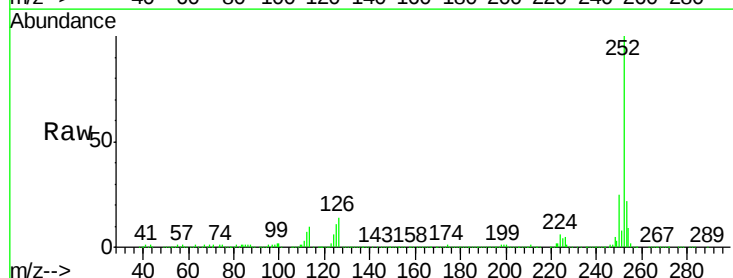
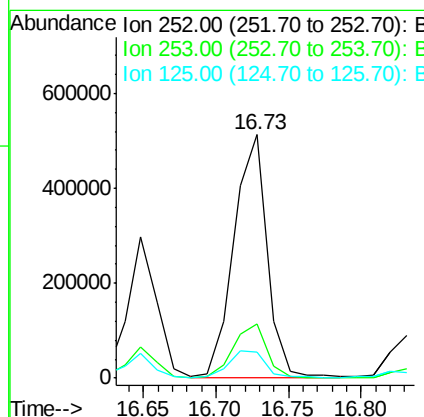
Manual Integrations
APPROVED

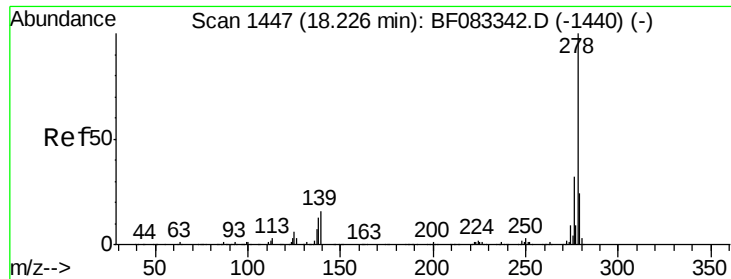
Mmdadoda
12/3/2015 7:09:53 PM



#89
Benzo(a)pyrene
Concen: 37.17 ng
RT: 16.73 min Scan# 1316
Delta R.T. -0.02 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	10.9	7.8	11.8





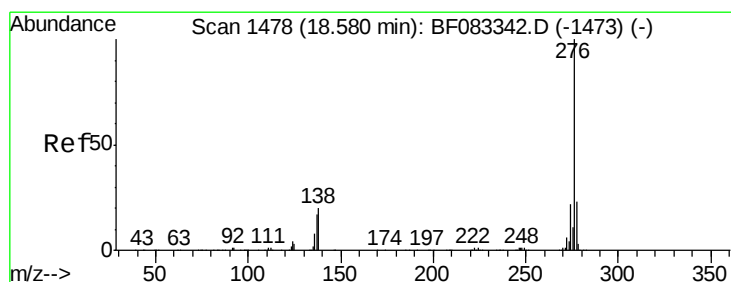
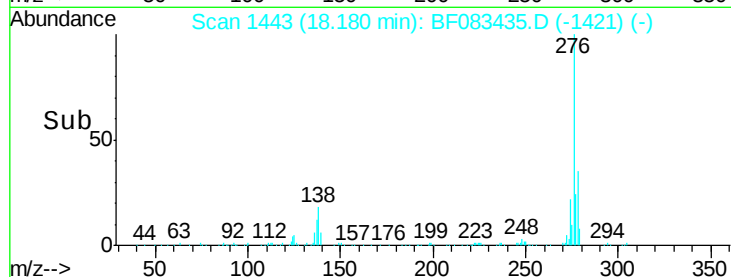
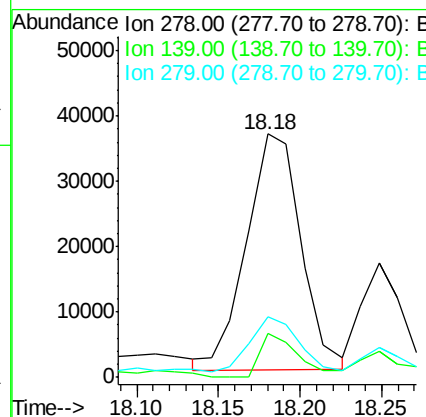
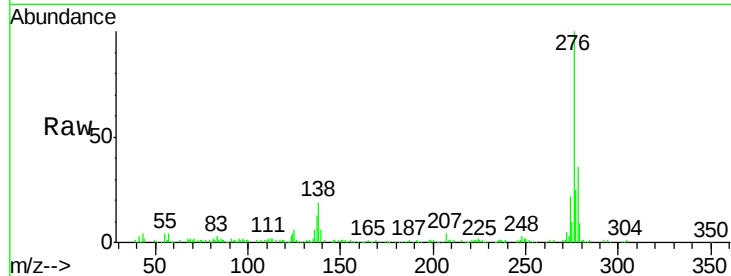
#90
Dibenzo(a,h)anthracene
Concen: 4.40 ng
RT: 18.18 min Scan# 1443
Delta R.T. -0.05 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Instrument :
BNA_F
ClientSampleId :
SB-P3WC-06(6-13)

Tot Ion	Ratio	Lower	Upper
278	100		
139	17.8	13.1	19.7
279	24.7	19.2	28.8

Manual Integrations
APPROVED

Mmdadoda
12/3/2015 7:09:53 PM



#91
Benzo(g,h,i)perylene
Concen: 20.64 ng
RT: 18.53 min Scan# 1474
Delta R.T. -0.05 min
Lab File: BF083435.D
Acq: 2 Dec 2015 23:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.6	28.0
138	23.8	16.1	24.1

