

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080515\
 Data File : BG018289.D
 Acq On : 6 Aug 2015 2:06
 Operator : UM/TP
 Sample : G3109-15RE
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 C01W3RE

Manual Integrations
 APPROVED

apatel
 8/10/2015 9:24:48 AM

Quant Time: Aug 14 03:14:45 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Aug 06 03:42:27 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.44	152	34303	20.00	ng/ul	0.00
18) Naphthalene-d8	10.22	136	165483	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.12	164	100026	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.89	188	147732	20.00	ng/ul	0.01
78) Chrysene-d12	21.11	240	138669	20.00	ng/ul	0.03
86) Perylene-d12	23.28	264	130799	20.00	ng/ul	0.04

System Monitoring Compounds

3) 1,4-Dioxane-d8	2.90	96	1516	3.81	ng/uL	0.00
5) Phenol-d5	6.65	99	68223	25.29	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	6.78	67	38032	29.17	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	61528	27.39	ng/ul	0.00
13) 4-Methylphenol-d8	8.18	113	37668	16.54	ng/ul	0.00
19) Nitrobenzene-d5	8.60	128	32639	25.47	ng/ul	0.00
22) 2-Nitrophenol-d4	9.31	143	39784	26.84	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.86	165	59851	21.97	ng/ul	0.00
29) 4-Chloroaniline-d4	10.38	131	6124	1.88	ng/ul	0.01
44) Dimethylphthalate-d6	13.54	166	197813	25.57	ng/ul	0.00
47) Acenaphthylene-d8	13.81	160	209997	23.94	ng/ul	0.00
52) 4-Nitrophenol-d4	14.39	143	17506	13.72	ng/ul	0.02
58) Fluorene-d10	15.12	176	146928	21.14	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.28	200	11070	10.82	ng/ul	0.02
71) Anthracene-d10	16.99	188	155414	23.92	ng/ul	0.01
79) Pyrene-d10	19.31	212	112318	14.47	ng/ul	0.03
90) Benzo(a)pyrene-d12	23.15	264	163786m	24.07	ng/ul	0.04

Target Compounds

						Qvalue
16) 4-Methylphenol	8.24	108	4097	1.67	ng/ul	92
28) Naphthalene	10.27	128	103190	13.27	ng/ul	96
34) 2-Methylnaphthalene	11.90	142	53068	8.50	ng/ul	86
41) 1,1'-Biphenyl	12.94	154	26067	3.78	ng/ul#	93
45) Dimethylphthalate	13.58	163	78258	10.14	ng/ul	99
48) Acenaphthylene	13.85	152	28192	3.12	ng/ul#	94
50) Acenaphthene	14.19	153	192165	32.87	ng/ul	99
54) Dibenzofuran	14.52	168	155772	18.10	ng/ul	94
59) Fluorene	15.18	166	275257	36.43	ng/ul	98
70) Phenanthrene	16.94	178	2299644m	308.45	ng/ul	
72) Anthracene	17.02	178	549415	73.84	ng/ul	98
75) Carbazole	17.30	167	78084	12.44	ng/ul	95
76) Di-n-butylphthalate	17.87	149	69180	7.86	ng/ul#	93
77) Fluoranthene	18.98	202	1792654	216.78	ng/ul	99
80) Pyrene	19.35	202	1685832	174.84	ng/ul	99
83) Benzo(a)anthracene	21.09	228	865209	118.21	ng/ul	98
84) Bis(2-ethylhexyl)phthalate	21.03	149	92495m	20.55	ng/ul	
85) Chrysene	21.15	228	747262	113.63	ng/ul	95
88) Benzo(b)fluoranthene	22.64	252	1015627	126.61	ng/ul#	95
89) Benzo(k)fluoranthene	22.67	252	288812m	37.54	ng/ul	
91) Benzo(a)pyrene	23.20	252	700252	99.98	ng/ul#	99
92) Indeno(1,2,3-cd)pyrene	25.49	276	343098	39.60	ng/ul	99
93) Dibenzo(a,h)anthracene	25.48	278	106384	13.99	ng/ul#	85

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080515\
Data File : BG018289.D
Acq On : 6 Aug 2015 2:06
Operator : UM/TP
Sample : G3109-15RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
C01W3RE

Manual Integrations
APPROVED

apatel
8/10/2015 9:24:48 AM

Quant Time: Aug 14 03:14:45 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 03:42:27 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Benzo(g,h,i)perylene	26.16	276	279368	39.73	ng/ul	97

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

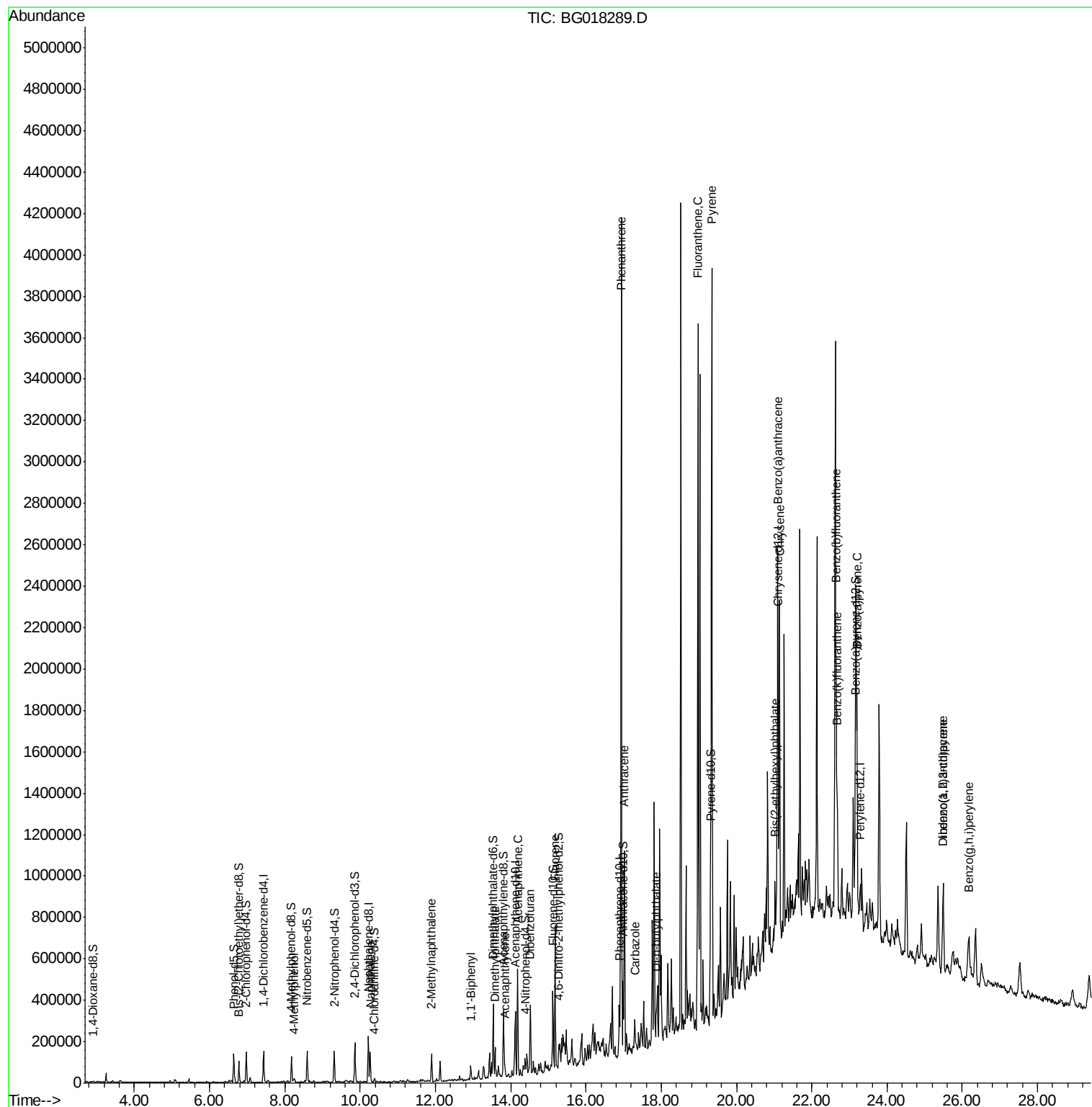
Data Path : Z:\HPCHEM1\BNA_G\Data\BG080515\
Data File : BG018289.D
Acq On : 6 Aug 2015 2:06
Operator : UM/TP
Sample : G3109-15RE
Misc :
ALS Vial : 18 Sample Multiplier: 1

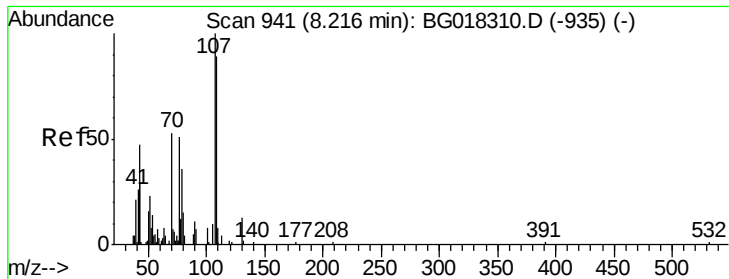
Instrument :
BNA_G
ClientSampleId :
C01W3RE

Manual Integrations
APPROVED

apatel
8/10/2015 9:24:48 AM

Quant Time: Aug 14 03:14:45 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG080515.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 03:42:27 2015
Response via : Initial Calibration





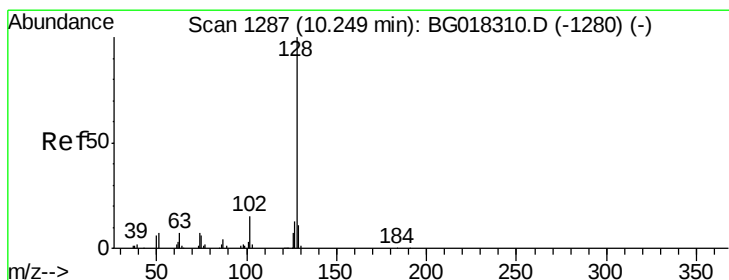
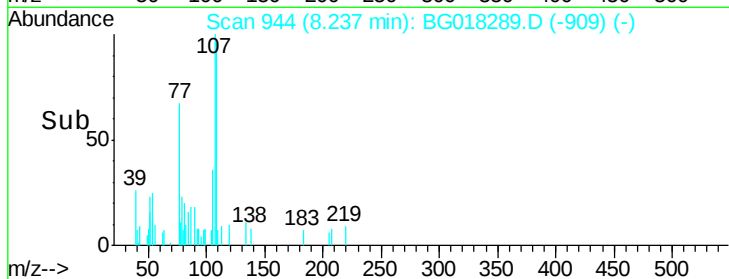
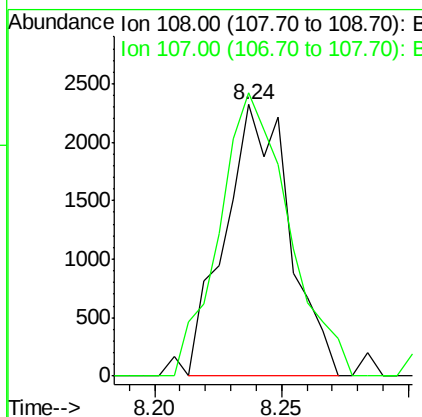
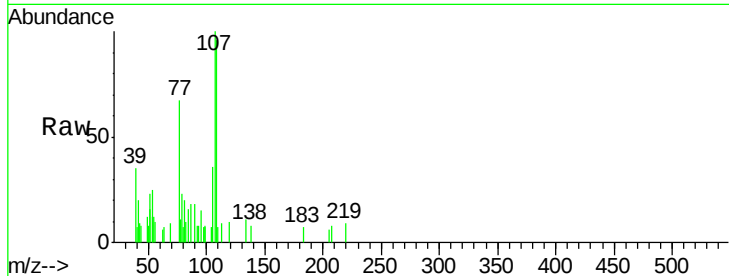
#16
4-Methylphenol
Concen: 1.67 ng/ul
RT: 8.24 min Scan# 944
Delta R.T. 0.01 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Instrument :
BNA_G
ClientSampleId :
C01W3RE

Tgt Ion	Ratio	Resp	Lower	Upper
108	100	4097		
107	104.4	89.9	134.9	

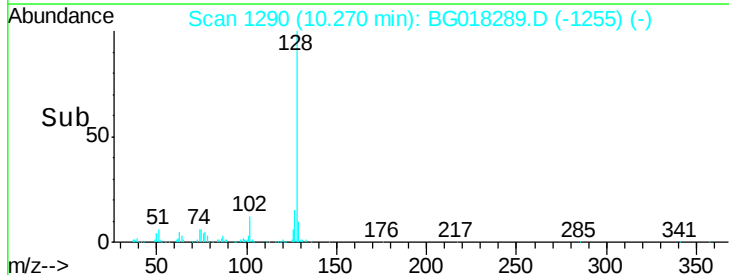
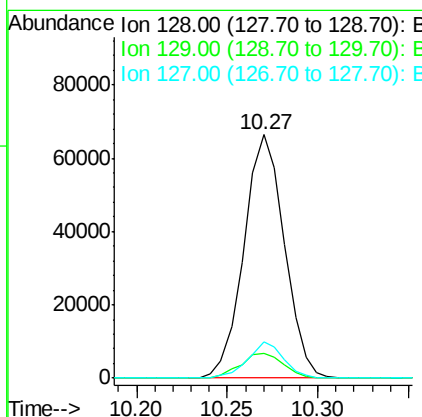
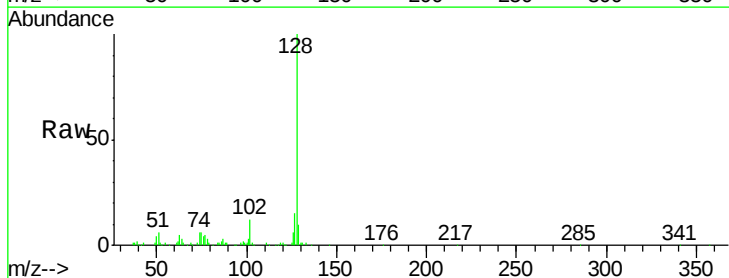
Manual Integrations
APPROVED

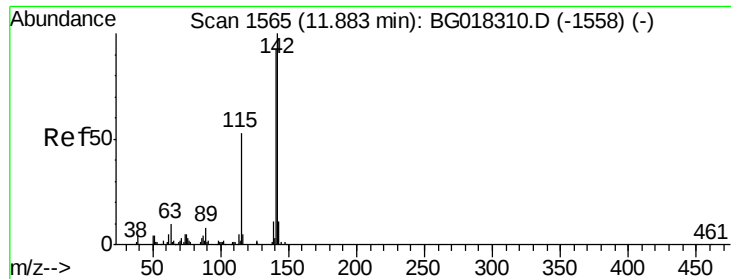
apatel
8/10/2015 9:24:48 AM



#28
Naphthalene
Concen: 13.27 ng/ul
RT: 10.27 min Scan# 1290
Delta R.T. 0.01 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	103190		
129	10.3	7.8	11.6	
127	14.8	10.2	15.4	





#34

2-Methylnaphthalene

Concen: 8.50 ng/ul

RT: 11.90 min Scan# 1568

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

ClientSampleId :

C01W3RE

Tgt Ion:142 Resp: 53068

Ion Ratio Lower Upper

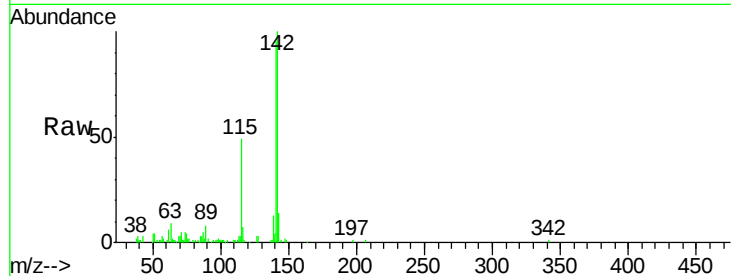
142 100

141 94.5 65.9 98.9

Manual Integrations
APPROVED

apatel

8/10/2015 9:24:48 AM



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

40000

30000

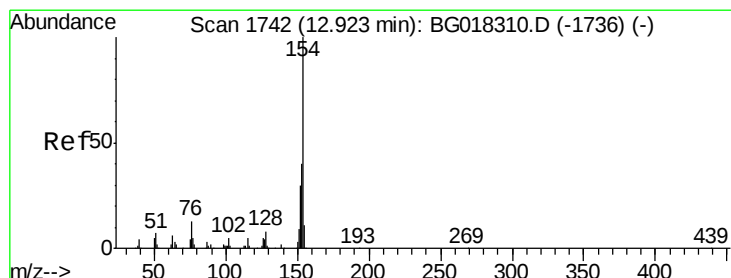
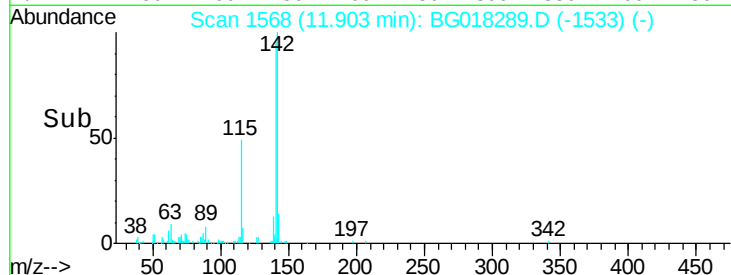
20000

10000

0

Time-->

11.85 11.90 11.95



#41

1,1'-Biphenyl

Concen: 3.78 ng/ul

RT: 12.94 min Scan# 1745

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

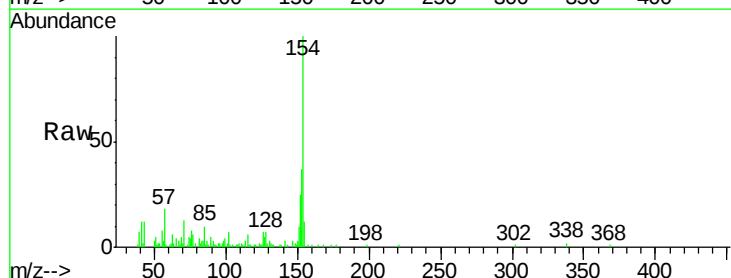
Tgt Ion:154 Resp: 26067

Ion Ratio Lower Upper

154 100

153 37.3 33.4 50.0

76 7.8 8.6 12.8#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BG

25000

20000

15000

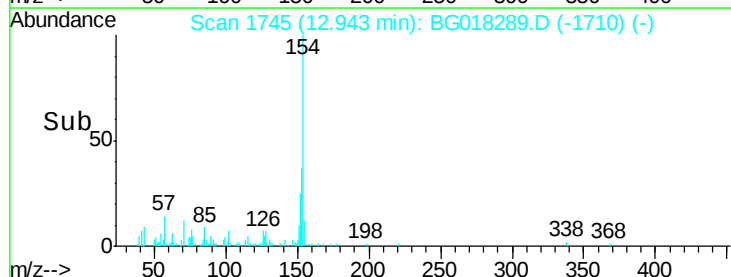
10000

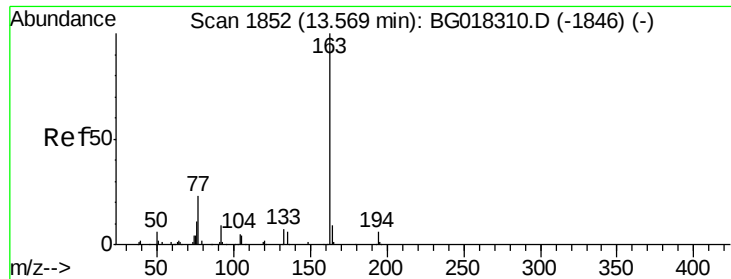
5000

0

Time-->

12.90 12.95 13.00





#45

Dimethylphthalate

Concen: 10.14 ng/ul

RT: 13.58 min Scan# 1854

Delta R.T. 0.00 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

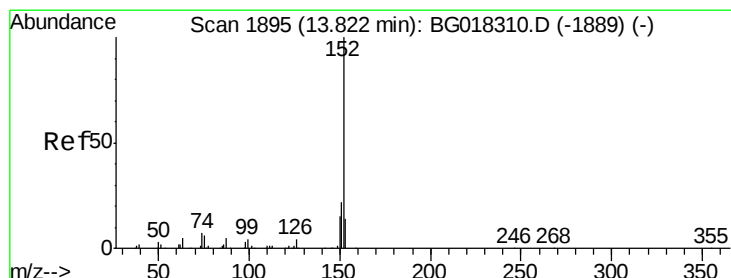
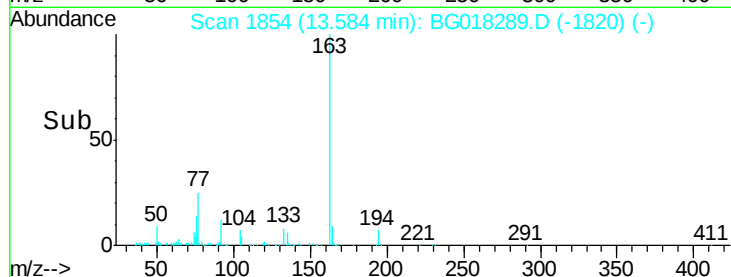
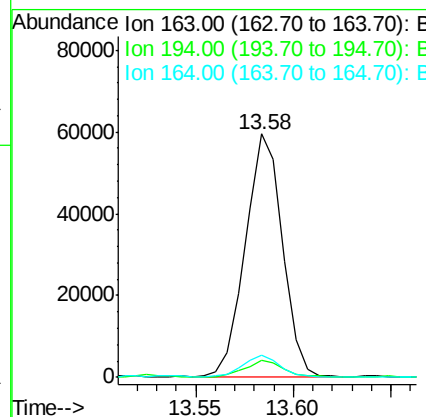
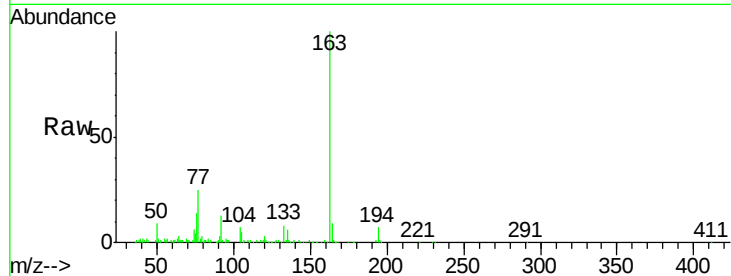
ClientSampleId :

C01W3RE

Tgt Ion:	163	Resp:	78258
Ion Ratio	Lower	Upper	
163	100		
194	7.0	5.4	8.2
164	9.2	7.8	11.8

Manual Integrations
APPROVED

apatel
8/10/2015 9:24:48 AM



#48

Acenaphthylene

Concen: 3.12 ng/ul

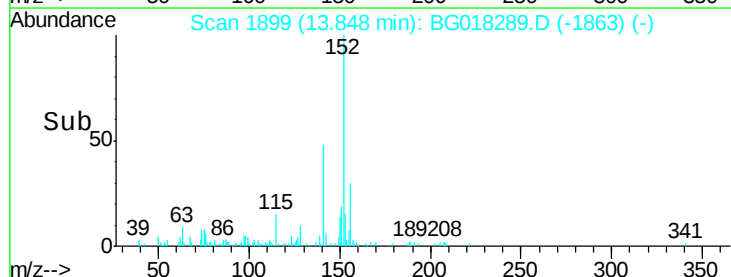
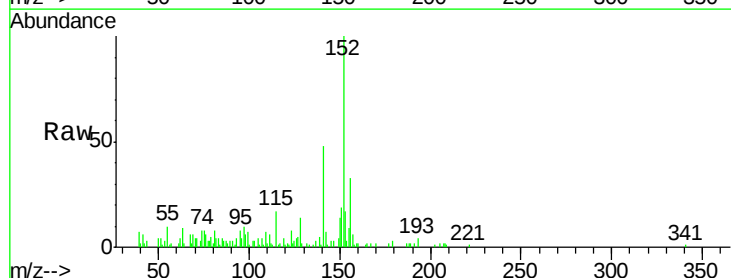
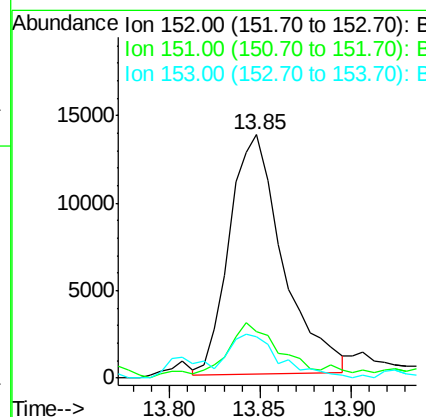
RT: 13.85 min Scan# 1899

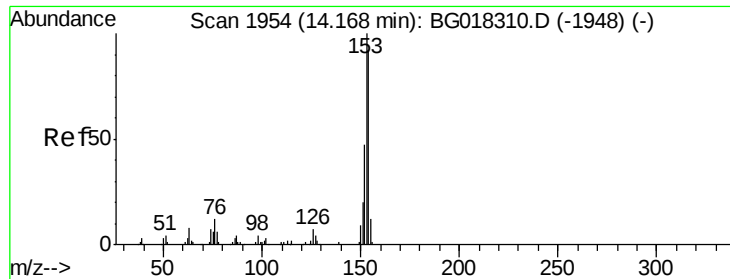
Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Tgt Ion:	152	Resp:	28192
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.5	24.7
153	16.8	9.8	14.6#





#50

Acenaphthene

Concen: 32.87 ng/ul

RT: 14.19 min Scan# 1957

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

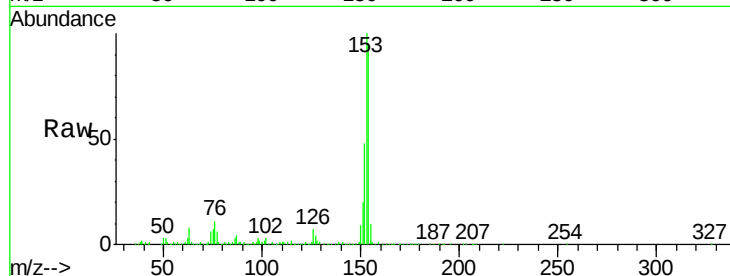
ClientSampleId :

C01W3RE

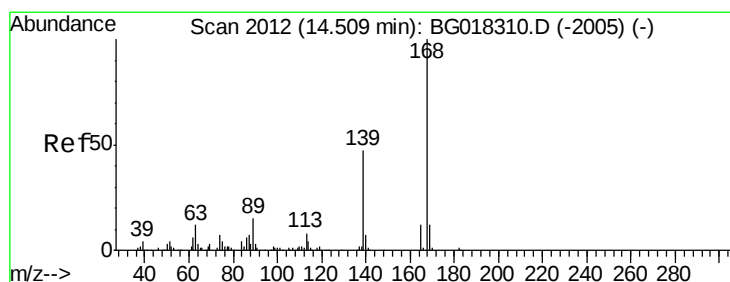
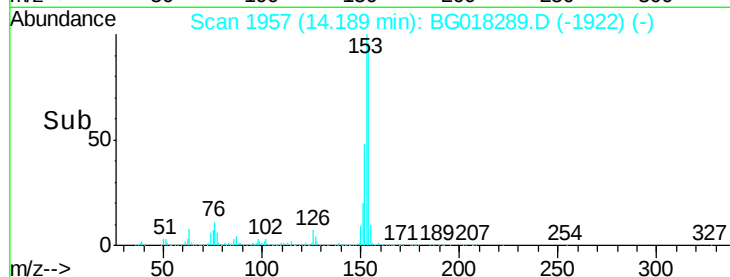
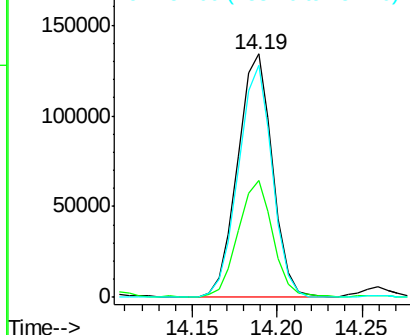
Tgt Ion:	153	Resp:	192165
Ion Ratio	Lower	Upper	
153	100		
152	47.8	39.0	58.4
154	95.5	77.4	116.2

Manual Integrations
APPROVED

apatel
8/10/2015 9:24:48 AM



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E



#54

Dibenzofuran

Concen: 18.10 ng/ul

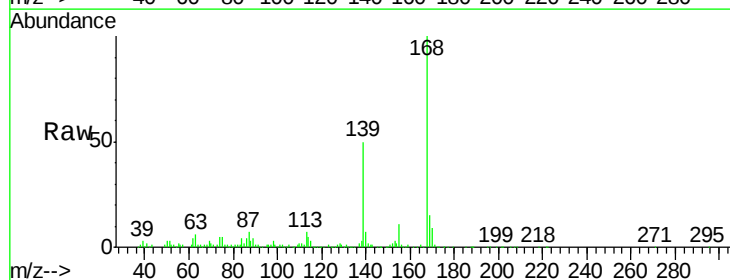
RT: 14.52 min Scan# 2014

Delta R.T. 0.01 min

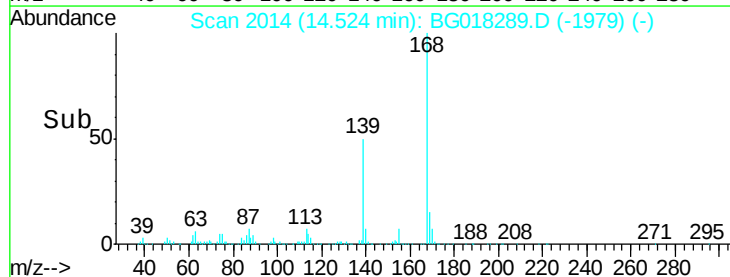
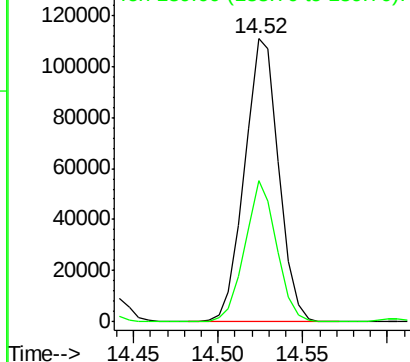
Lab File: BG018289.D

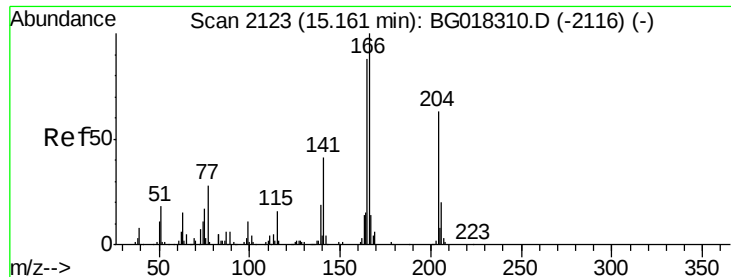
Acq: 6 Aug 2015 2:06

Tgt Ion:	168	Resp:	155772
Ion Ratio	Lower	Upper	
168	100		
139	50.1	37.1	55.7



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





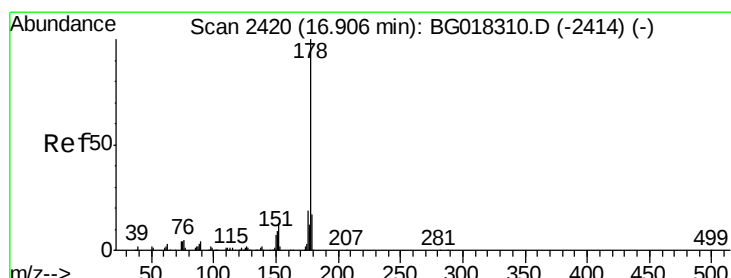
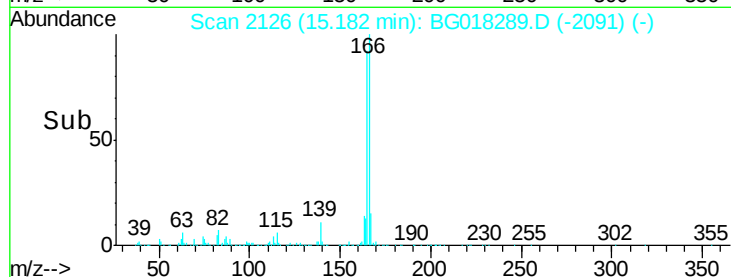
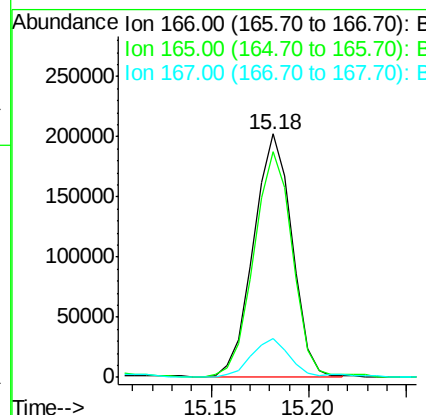
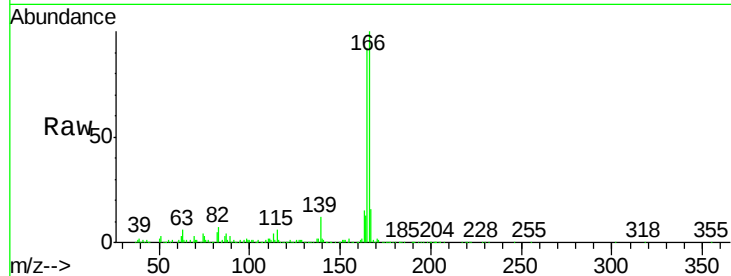
#59
Fluorene
 Concen: 36.43 ng/ul
 RT: 15.18 min Scan# 2126
 Delta R.T. 0.01 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

Instrument :
 BNA_G
 ClientSampleId :
 C01W3RE

Tgt Ion	Ratio	Lower	Upper
166	100		
165	92.4	72.4	108.6
167	16.1	11.4	17.0

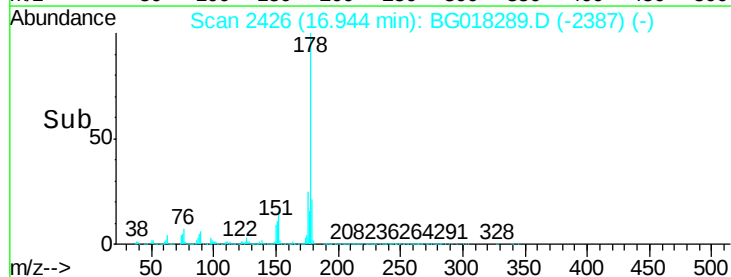
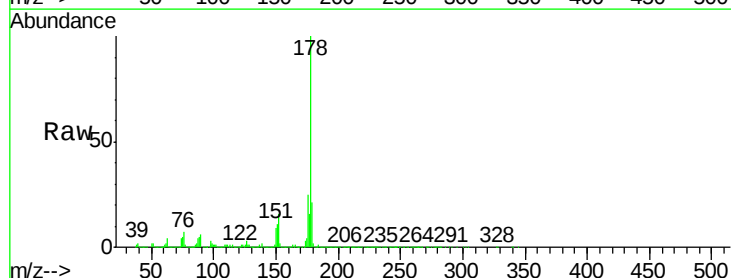
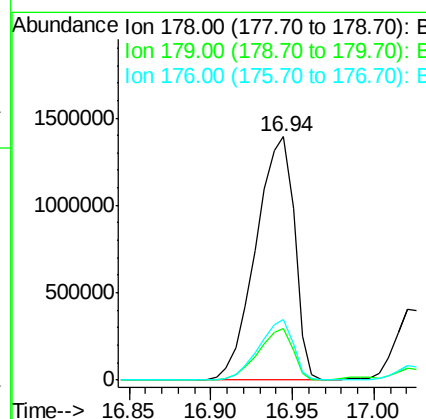
Manual Integrations
 APPROVED

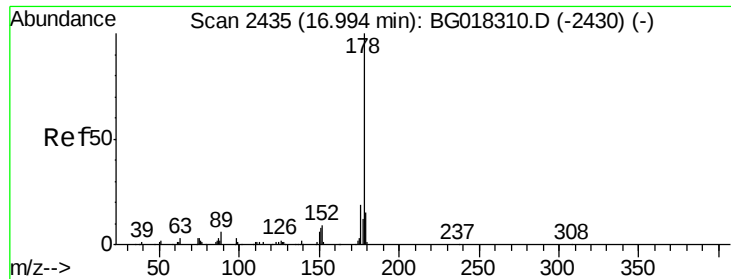
apatel
 8/10/2015 9:24:48 AM



#70
Phenanthrene
 Concen: 308.45 ng/ul m
 RT: 16.94 min Scan# 2426
 Delta R.T. 0.03 min
 Lab File: BG018289.D
 Acq: 6 Aug 2015 2:06

Tgt Ion	Ratio	Lower	Upper
178	100		
179	21.2	12.2	18.4#
176	25.0	14.5	21.7#





#72

Anthracene

Concen: 73.84 ng/ul

RT: 17.02 min Scan# 2439

Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

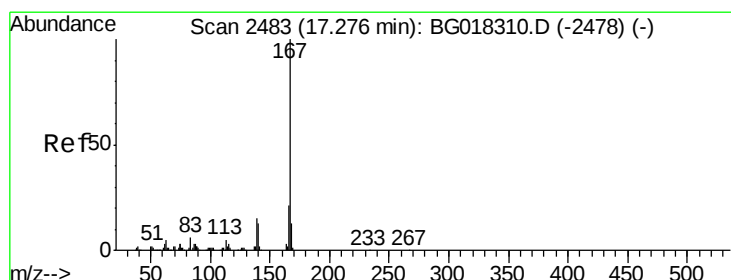
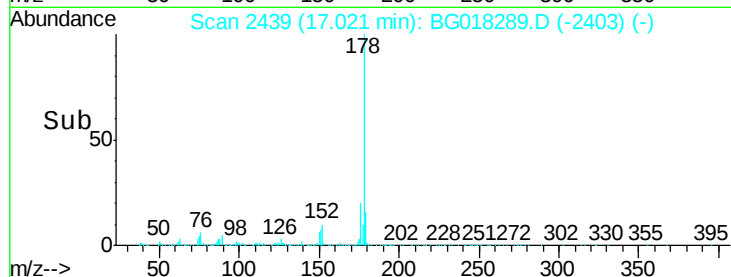
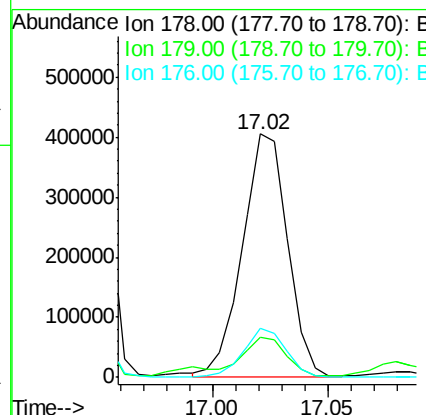
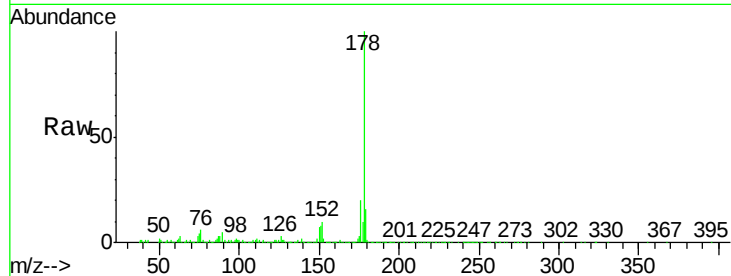
ClientSampleId :

C01W3RE

Tgt Ion:	178	Resp:	549415
Ion Ratio	Lower	Upper	
178	100		
179	16.5	12.2	18.4
176	20.1	15.3	22.9

Manual Integrations
APPROVED

apatel
8/10/2015 9:24:48 AM



#75

Carbazole

Concen: 12.44 ng/ul

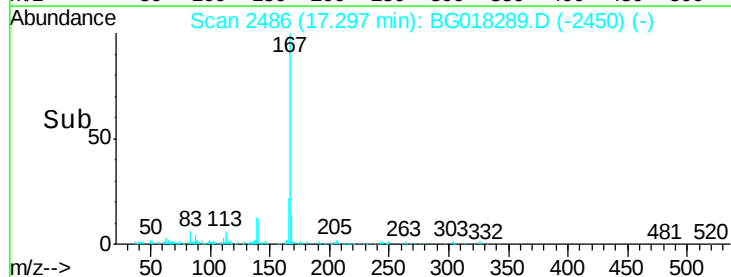
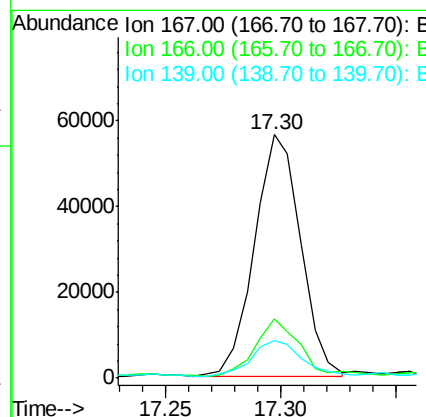
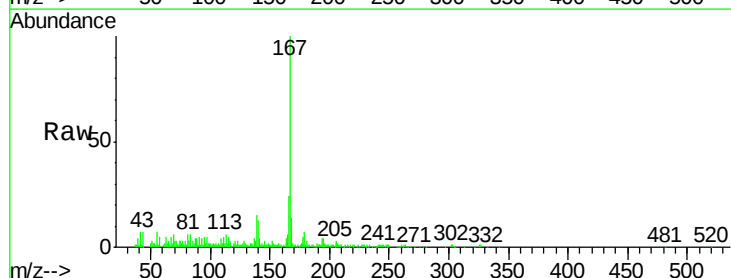
RT: 17.30 min Scan# 2486

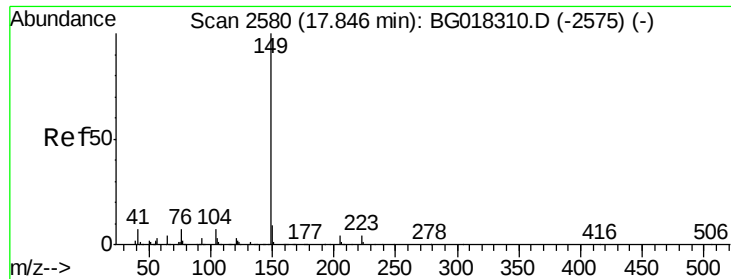
Delta R.T. 0.01 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Tgt Ion:	167	Resp:	78084
Ion Ratio	Lower	Upper	
167	100		
166	24.4	17.8	26.8
139	15.5	10.6	16.0





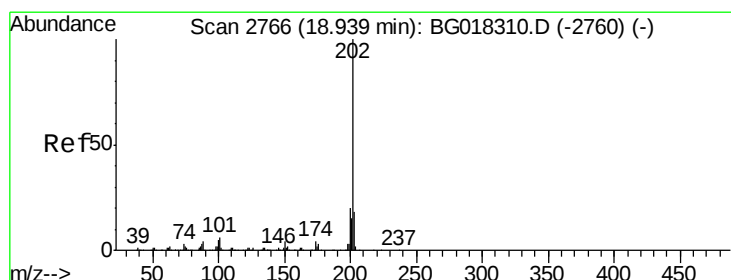
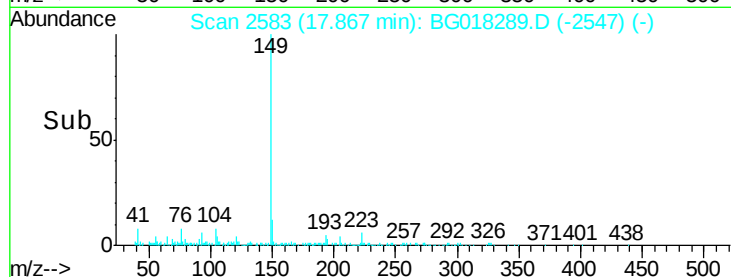
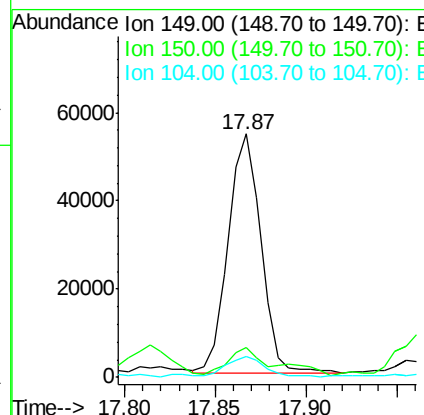
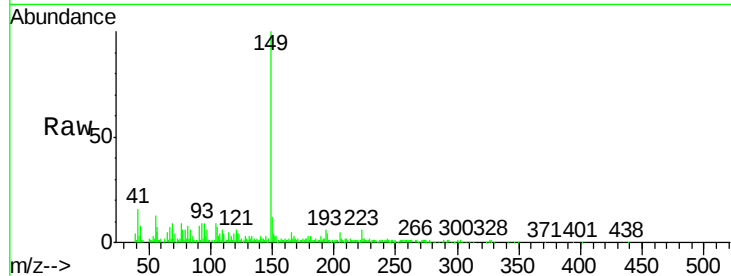
#76
Di-n-butylphthalate
Concen: 7.86 ng/ul
RT: 17.87 min Scan# 2583
Delta R.T. 0.01 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Instrument :
BNA_G
ClientSampleId :
C01W3RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
150	12.5	7.4	11.2#
104	8.7	5.5	8.3#

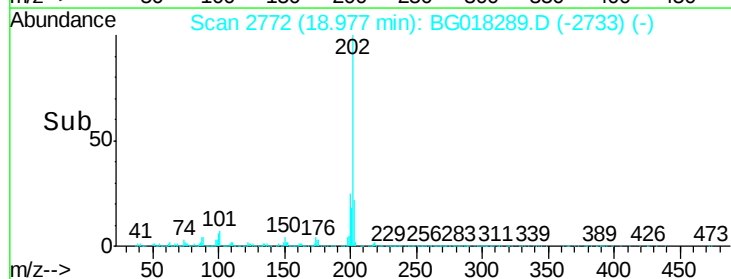
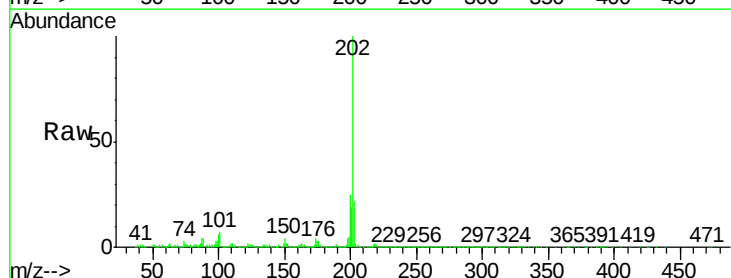
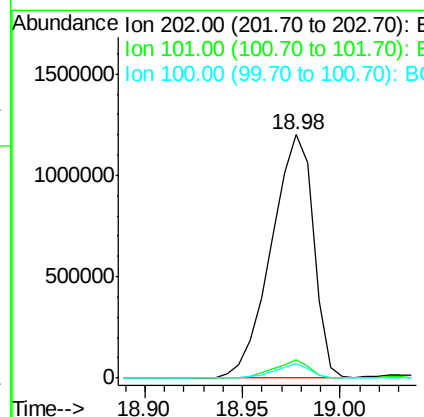
Manual Integrations
APPROVED

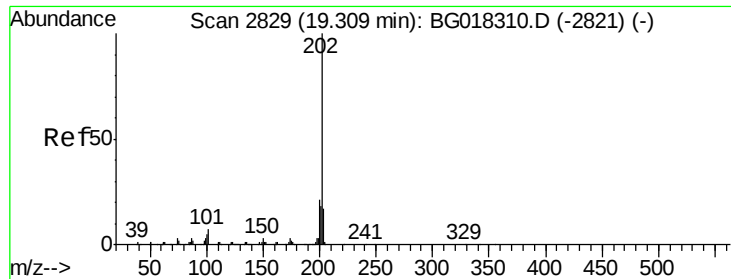
apatel
8/10/2015 9:24:48 AM



#77
Fluoranthene
Concen: 216.78 ng/ul
RT: 18.98 min Scan# 2772
Delta R.T. 0.03 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	7.4	6.2	9.2
100	5.8	4.6	6.8





#80

Pyrene

Concen: 174.84 ng/ul

RT: 19.35 min Scan# 2835

Delta R.T. 0.04 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

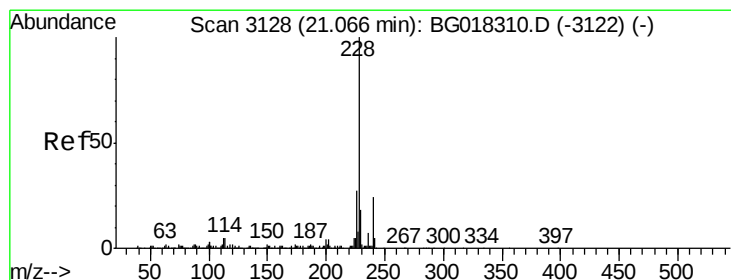
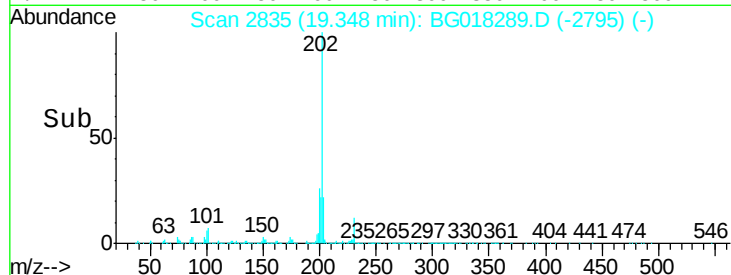
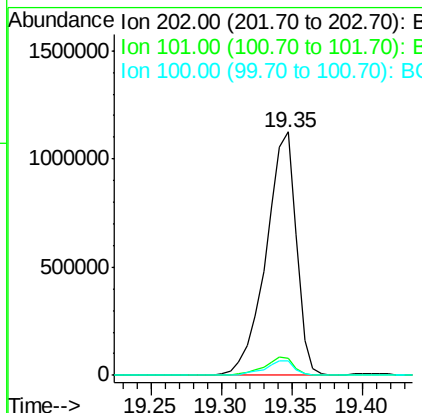
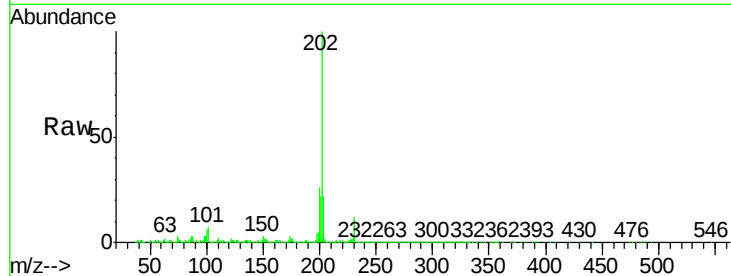
ClientSampleId :

C01W3RE

Tgt	Ion	202	Resp	1685832
Ion	Ratio	Lower	Upper	
202	100			
101	7.1	6.2	9.2	
100	5.8	4.6	7.0	

Manual Integrations
APPROVED

apatel
8/10/2015 9:24:48 AM



#83

Benzo(a)anthracene

Concen: 118.21 ng/ul

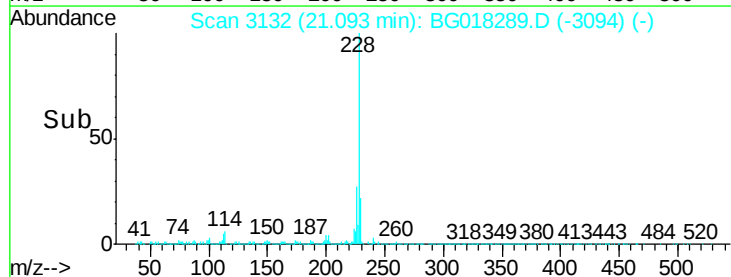
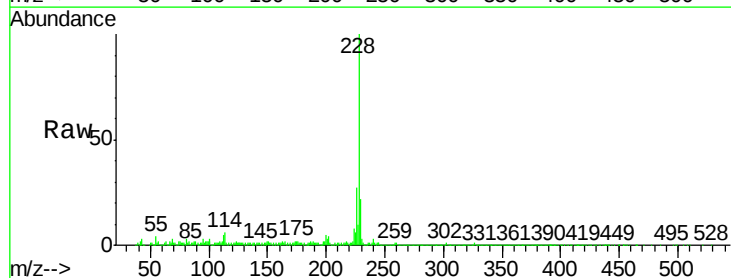
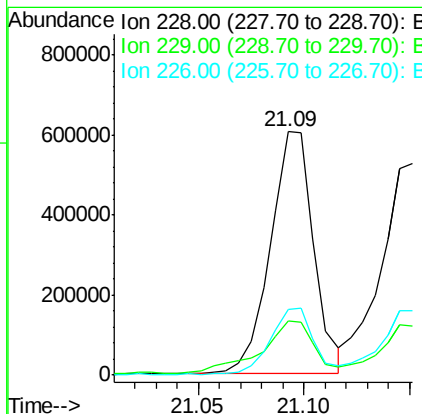
RT: 21.09 min Scan# 3132

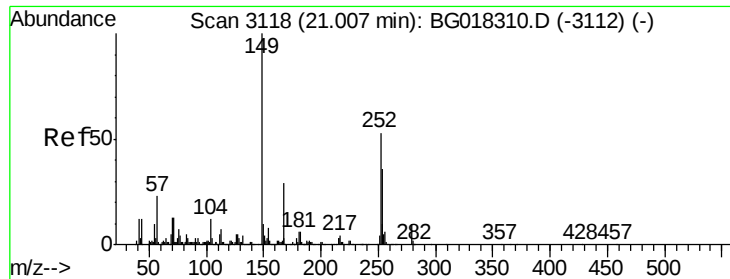
Delta R.T. 0.03 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Tgt	Ion	228	Resp	865209
Ion	Ratio	Lower	Upper	
228	100			
229	22.3	16.3	24.5	
226	27.1	21.2	31.8	





#84

Bis(2-ethylhexyl)phthalate

Concen: 20.55 ng/ul m

RT: 21.03 min Scan# 3121

Delta R.T. 0.02 min

Lab File: BG018289.D

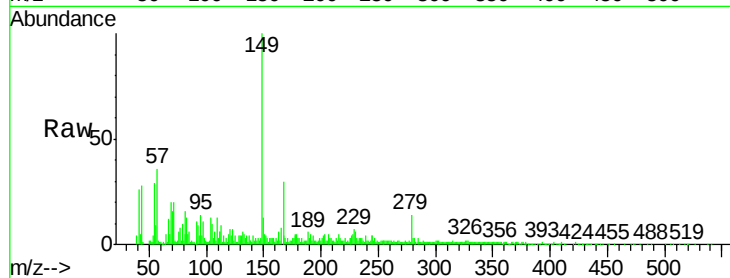
Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

ClientSampleId :

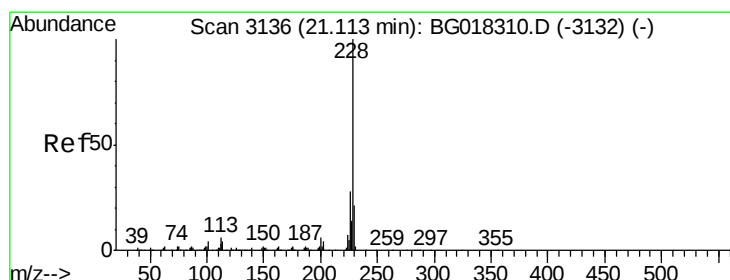
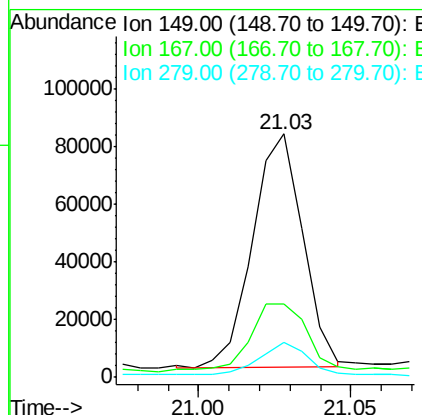
C01W3RE



Tgt Ion	Ratio	Lower	Upper
149	100		
167	29.9	26.4	39.6
279	14.4	8.6	12.8

Manual Integrations
APPROVED

apatel
8/10/2015 9:24:48 AM



#85

Chrysene

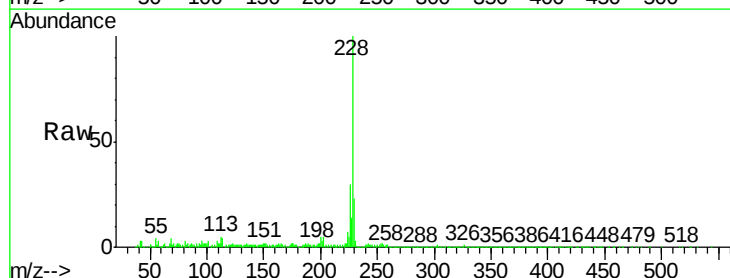
Concen: 113.63 ng/ul

RT: 21.15 min Scan# 3142

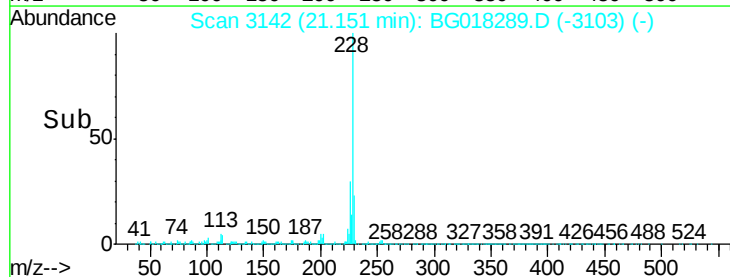
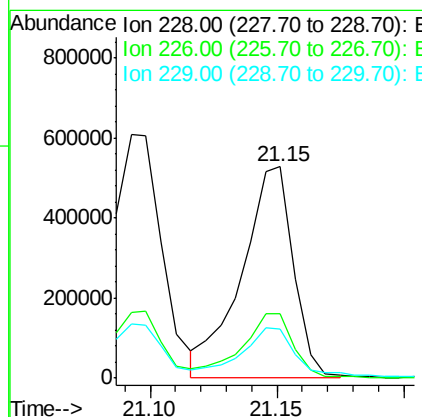
Delta R.T. 0.03 min

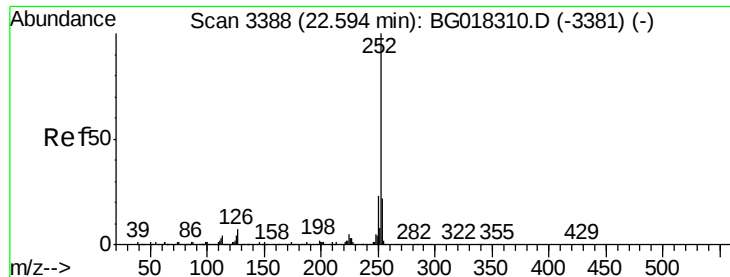
Lab File: BG018289.D

Acq: 6 Aug 2015 2:06



Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.0	34.6
229	23.5	15.9	23.9





#88

Benzo(b)fluoranthene

Concen: 126.61 ng/ul

RT: 22.64 min Scan# 3396

Delta R.T. 0.05 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Instrument :

BNA_G

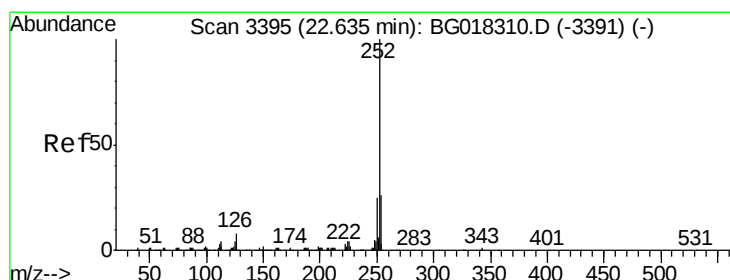
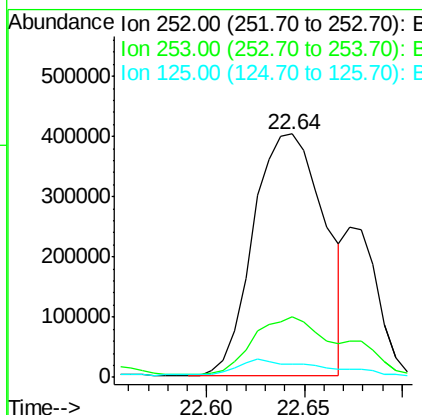
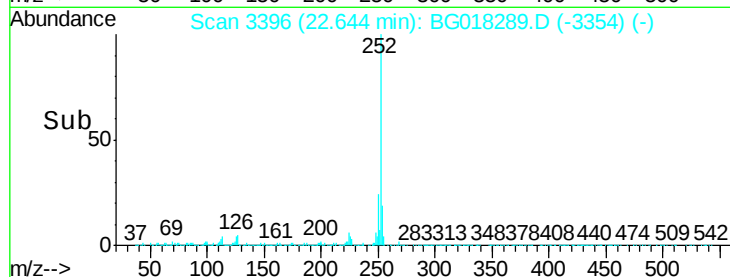
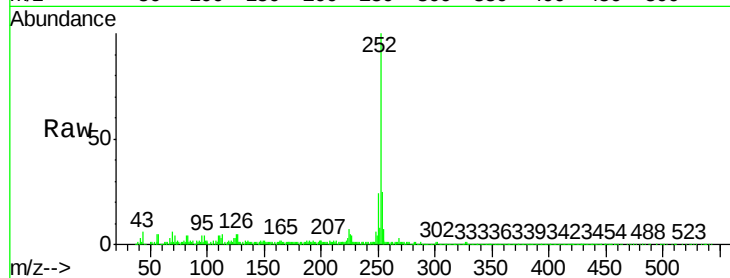
ClientSampleId :

C01W3RE

Tgt Ion:	252	Resp:	1015627
Ion Ratio	Lower	Upper	
252	100		
253	24.9	18.1	27.1
125	5.3	3.1	4.7#

Manual Integrations
APPROVED

apatel
8/10/2015 9:24:48 AM



#89

Benzo(k)fluoranthene

Concen: 37.54 ng/ul m

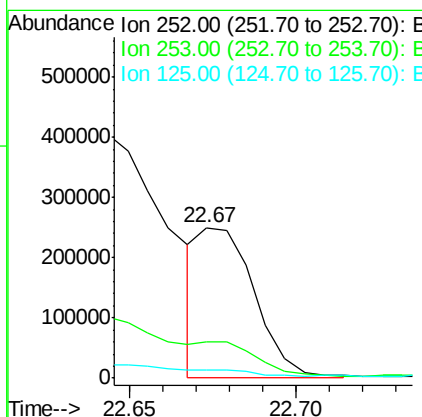
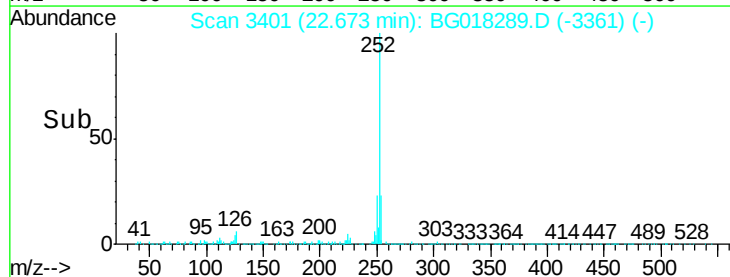
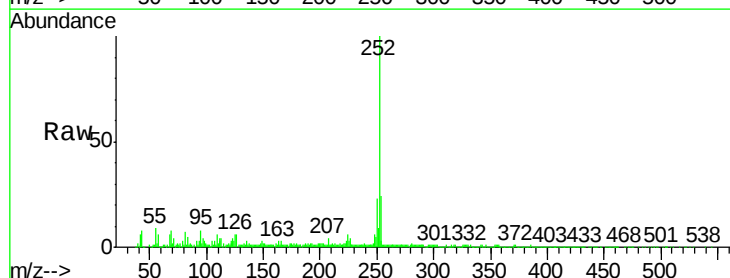
RT: 22.67 min Scan# 3401

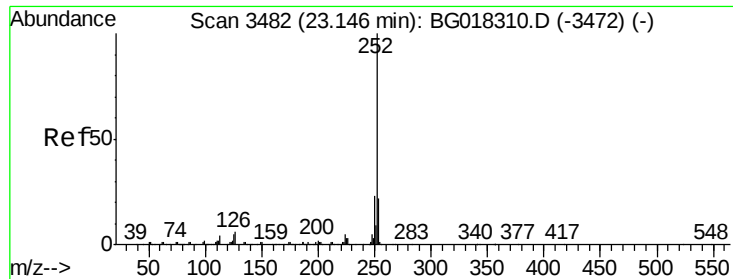
Delta R.T. 0.04 min

Lab File: BG018289.D

Acq: 6 Aug 2015 2:06

Tgt Ion:	252	Resp:	288812
Ion Ratio	Lower	Upper	
252	100		
253	23.8	16.4	24.6
125	5.8	3.4	5.2#





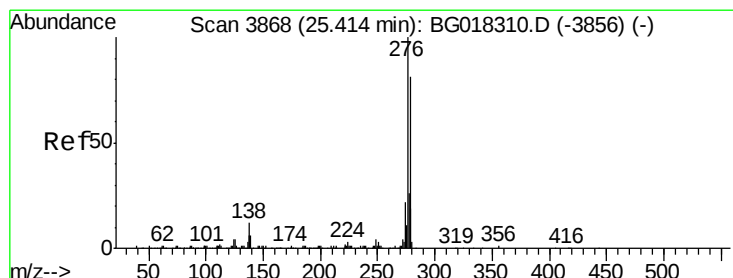
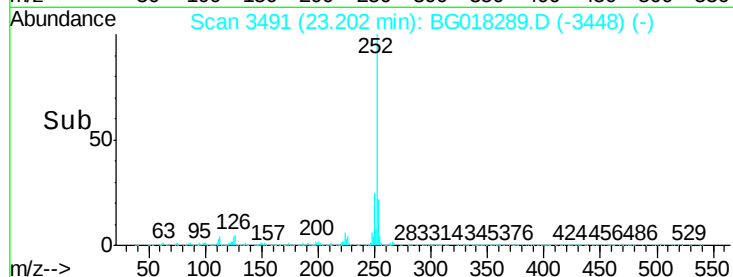
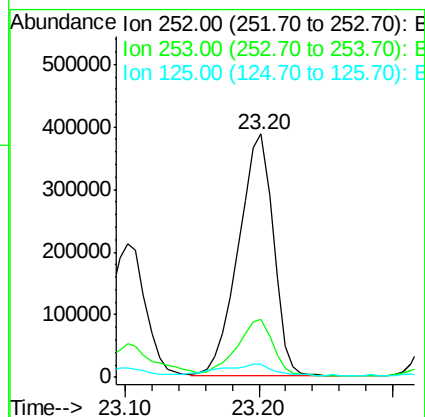
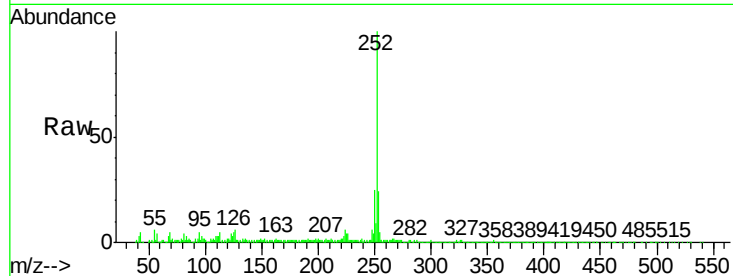
#91
Benzo(a)pyrene
Concen: 99.98 ng/ul
RT: 23.20 min Scan# 3491
Delta R.T. 0.06 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Instrument :
BNA_G
ClientSampleId :
C01W3RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.8	18.9	28.3
125	5.3	3.2	4.8

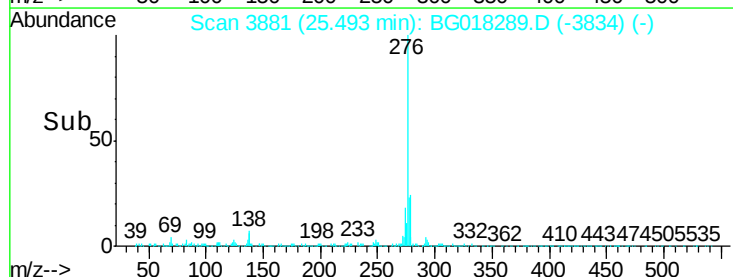
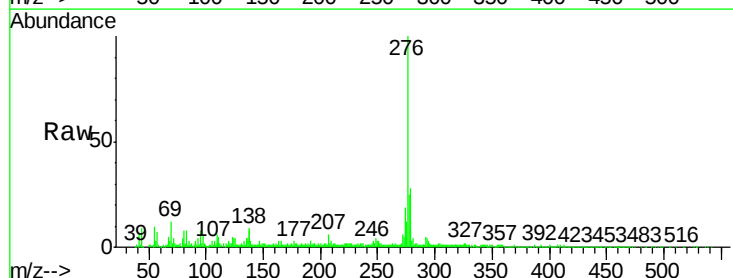
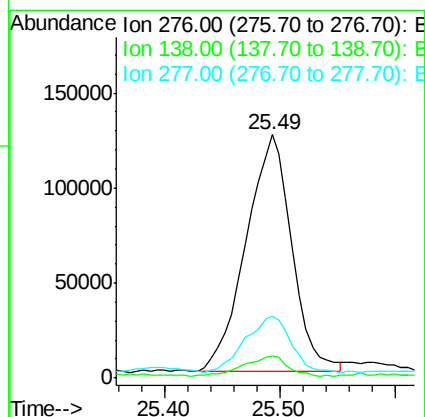
Manual Integrations
APPROVED

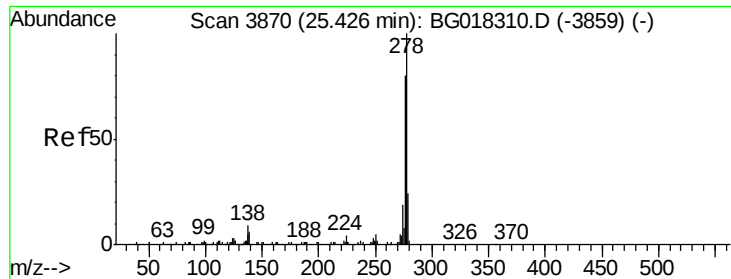
apatel
8/10/2015 9:24:48 AM



#92
Indeno(1,2,3-cd)pyrene
Concen: 39.60 ng/ul
RT: 25.49 min Scan# 3881
Delta R.T. 0.08 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	8.9	8.2	12.4
277	25.2	20.1	30.1





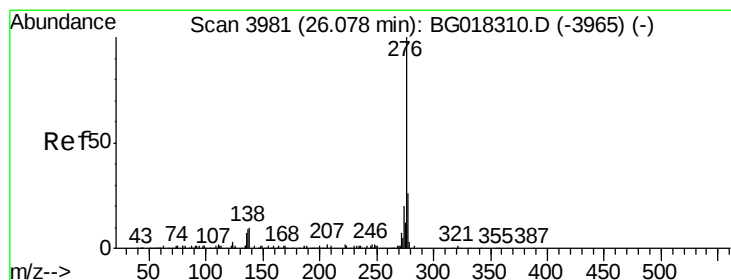
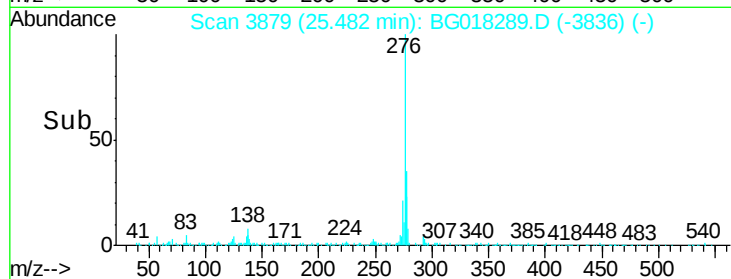
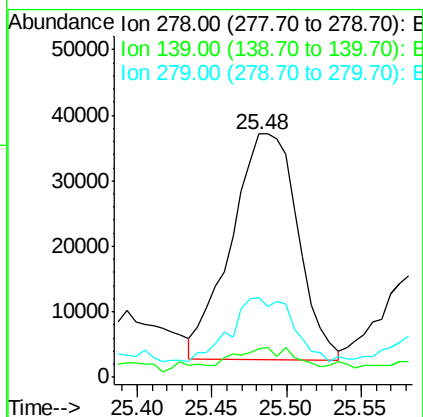
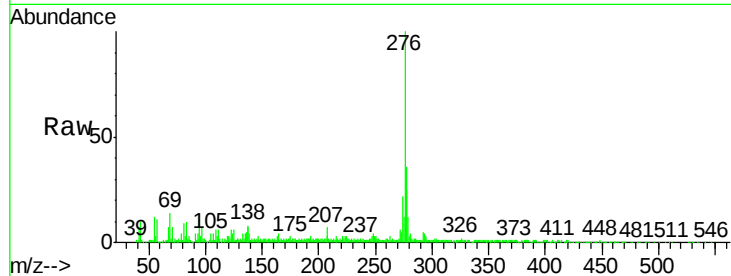
#93
Dibenzo(a,h)anthracene
Concen: 13.99 ng/ul
RT: 25.48 min Scan# 3879
Delta R.T. 0.06 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Instrument :
BNA_G
ClientSampleId :
C01W3RE

Tgt Ion	Ratio	Lower	Upper
278	100		
139	11.6	5.8	8.8#
279	32.8	19.8	29.6#

Manual Integrations
APPROVED

apatel
8/10/2015 9:24:48 AM



#94
Benzo(g,h,i)perylene
Concen: 39.73 ng/ul
RT: 26.16 min Scan# 3995
Delta R.T. 0.08 min
Lab File: BG018289.D
Acq: 6 Aug 2015 2:06

Tgt Ion	Ratio	Lower	Upper
276	100		
138	7.8	6.0	9.0
277	24.8	21.1	31.7

