

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101615\
 Data File : BG019236.D
 Acq On : 16 Oct 2015 23:15
 Operator : UM/NP
 Sample : G3996-18
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 E5LK7

Manual Integrations
 APPROVED

MMdadoda
 10/19/2015 6:29:34 PM

Quant Time: Oct 19 15:56:09 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Oct 19 00:27:28 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.02	152	25767	20.00	ng/ul	0.02
18) Naphthalene-d8	10.86	136	123636	20.00	ng/ul	0.05
36) Acenaphthene-d10	14.68	164	64498	20.00	ng/ul	0.05
62) Phenanthrene-d10	17.43	188	124648	20.00	ng/ul	0.04
78) Chrysene-d12	21.70	240	153441	20.00	ng/ul	0.05
86) Perylene-d12	24.97	264	155224m	20.00	ng/ul	0.12

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.44	96	13276	28.69	ng/uL	0.00
5) Phenol-d5	7.23	99	44122	19.62	ng/ul	0.06
7) Bis-(2-Chloroethyl)ether-d	7.36	67	47094	32.54	ng/ul	0.03
9) 2-Chlorophenol-d4	7.57	132	34988	21.35	ng/ul	0.03
13) 4-Methylphenol-d8	8.70	113	54	0.03	ng/ul	-0.02
19) Nitrobenzene-d5	9.22	128	25250	26.51	ng/ul	0.05
22) 2-Nitrophenol-d4	9.93	143	21495	21.26	ng/ul	0.04
26) 2,4-Dichlorophenol-d3	10.54	165	37850	18.90	ng/ul	0.11
29) 4-Chloroaniline-d4	11.01	131	486226m	188.56	ng/ul	0.06
44) Dimethylphthalate-d6	14.14	166	106733m	18.92	ng/ul	0.10
47) Acenaphthylene-d8	14.38	160	132431	21.72	ng/ul	0.05
52) 4-Nitrophenol-d4	0.00	143	0d	0.00	ng/ul	
58) Fluorene-d10	15.68	176	195162	40.48	ng/ul	0.05
63) 4,6-Dinitro-2-methylphenol	15.78	200	319	0.41	ng/ul	0.03
71) Anthracene-d10	17.53	188	133114	22.60	ng/ul	0.05
79) Pyrene-d10	19.81	212	155352	22.32	ng/ul	0.04
90) Benzo(a)pyrene-d12	24.74	264	169074m	21.56	ng/ul	0.11

Target Compounds

					Ovalue	
6) Phenol	7.27	94	1349535	576.29	ng/ul#	73
11) 2-Methylphenol	8.55	108	2076255m	1129.58	ng/ul	
14) Acetophenone	8.83	105	133358	41.47	ng/ul#	82
16) 4-Methylphenol	8.95	108	4001457m	1940.40	ng/ul	
24) 2,4-Dimethylphenol	10.12	107	3704754	1423.57	ng/ul	94
28) Naphthalene	10.93	128	2568460	397.44	ng/ul#	92
34) 2-Methylnaphthalene	12.53	142	1368707	267.18	ng/ul	99
35) 1-Methylnaphthalene	12.74	142	857328	170.89	ng/ul#	97
41) 1,1'-Biphenyl	13.52	154	420380	83.48	ng/ul	94
42) 2-Chloronaphthalene	13.51	162	40706	10.46	ng/ul	96
48) Acenaphthylene	14.41	152	184664	27.46	ng/ul#	83
50) Acenaphthene	14.75	153	127529	28.32	ng/ul	93
54) Dibenzofuran	15.09	168	579700	91.09	ng/ul#	83
59) Fluorene	15.74	166	417656	76.68	ng/ul#	95
70) Phenanthrene	17.47	178	737512	105.97	ng/ul	93
72) Anthracene	17.56	178	169228	23.93	ng/ul#	92
75) Carbazole	17.86	167	54427m	8.93	ng/ul	
77) Fluoranthene	19.48	202	216216	24.82	ng/ul	96
80) Pyrene	19.84	202	239381	26.29	ng/ul#	91
83) Benzo(a)anthracene	21.68	228	61888	7.14	ng/ul#	69
85) Chrysene	21.75	228	67963	8.29	ng/ul#	69

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ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
E5LK7

Manual Integrations
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Quant Time: Oct 19 15:56:09 2015
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG101515.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Oct 19 00:27:28 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

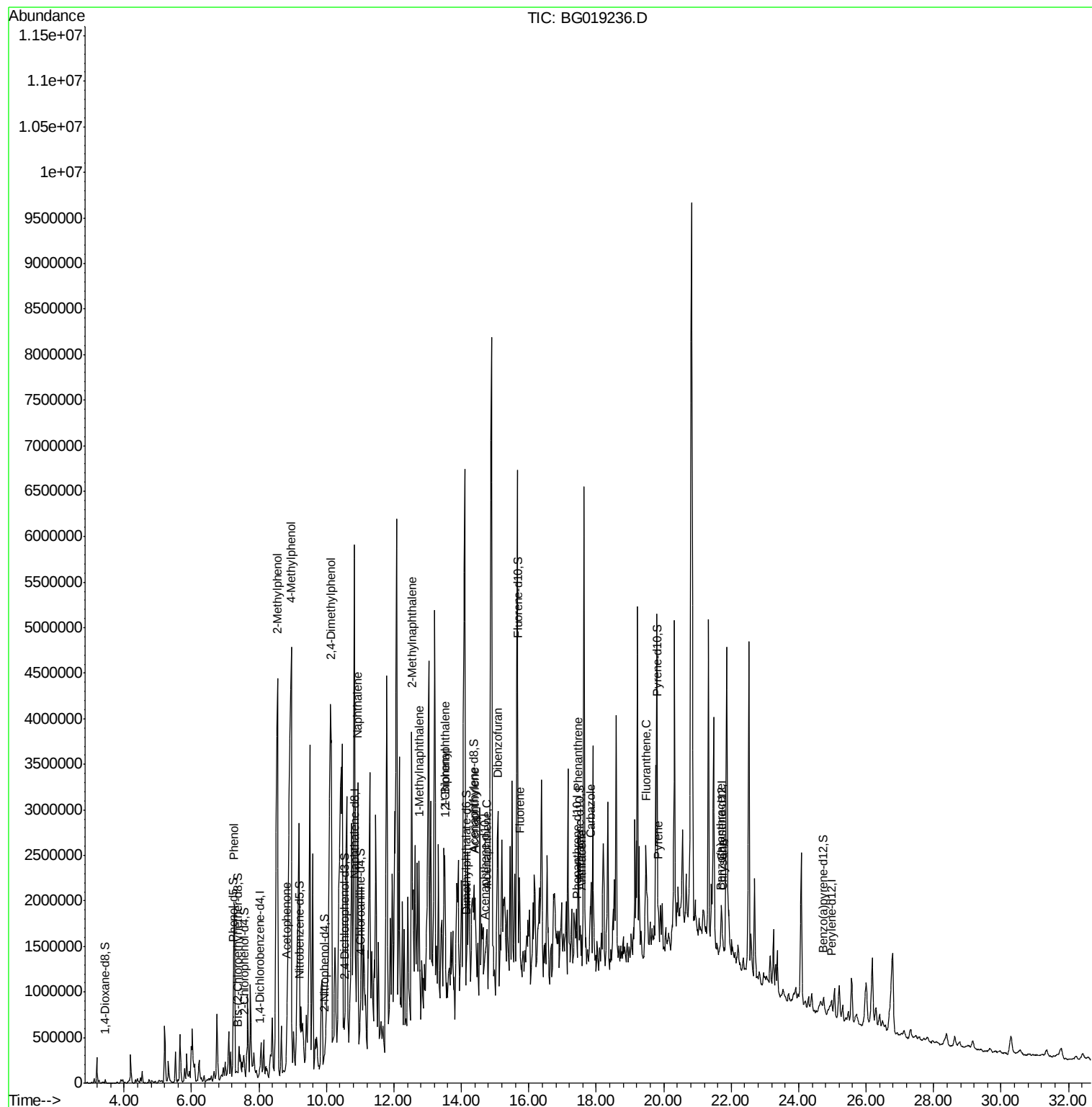
Data Path : Z:\HPCHEM1\BNA G\DATA\BG101615\
Data File : BG019236.D
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ALS Vial : 16 Sample Multiplier: 1

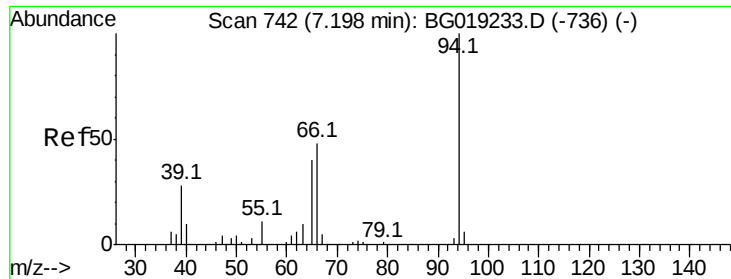
Instrument :
BNA_G
ClientSampleId :
E5LK7

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Quant Time: Oct 19 15:56:09 2015
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Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration





#6

Phenol

Concen: 576.29 ng/ul

RT: 7.27 min Scan# 755

Delta R.T. 0.08 min

Lab File: BG019236.D

Acq: 16 Oct 2015 23:15

Instrument :

BNA_G

ClientSampleId :

E5LK7

Tot Ion: 94 Resp: 1349535

Ion Ratio Lower Upper

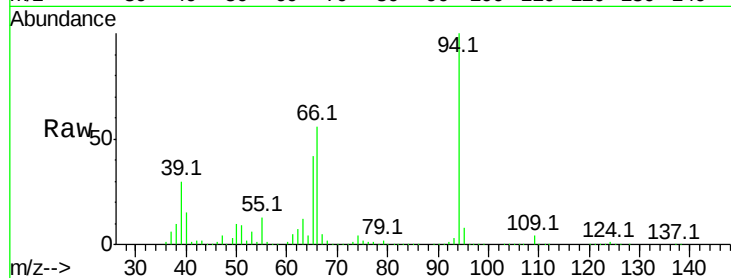
94 100

65 41.5 24.9 37.3#

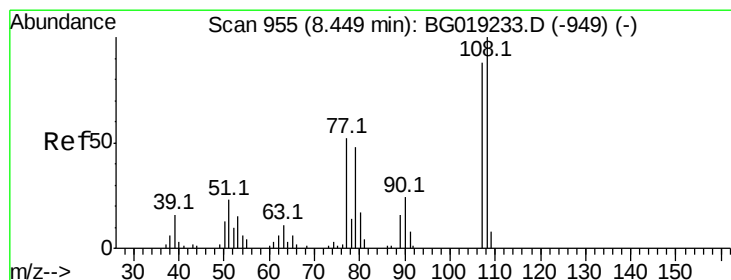
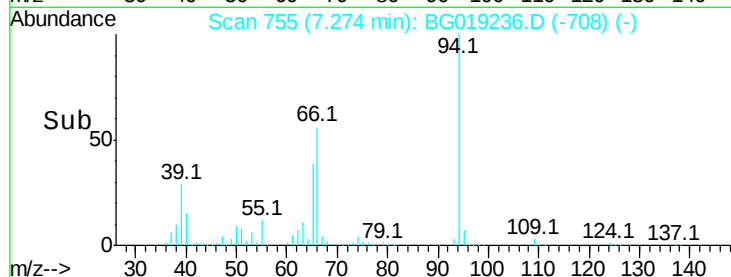
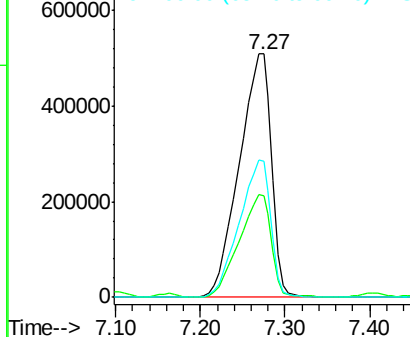
66 56.1 29.1 43.7#

Manual Integrations
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Abundance Ion 94.00 (93.70 to 94.70): BGC
Ion 65.00 (64.70 to 65.70): BGC
Ion 66.00 (65.70 to 66.70): BGC



#11

2-Methylphenol

Concen: 1129.58 ng/ul m

RT: 8.55 min Scan# 972

Delta R.T. 0.10 min

Lab File: BG019236.D

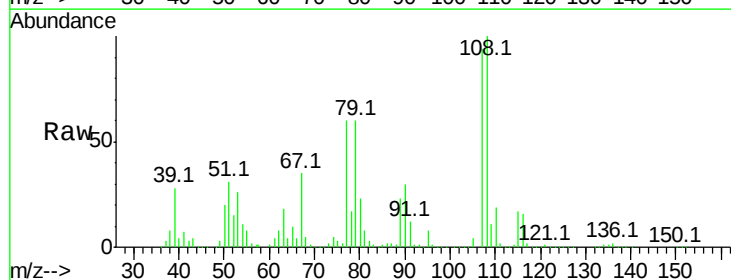
Acq: 16 Oct 2015 23:15

Tgt Ion:108 Resp: 2076255

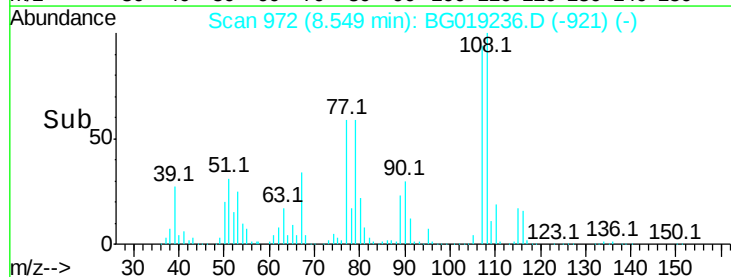
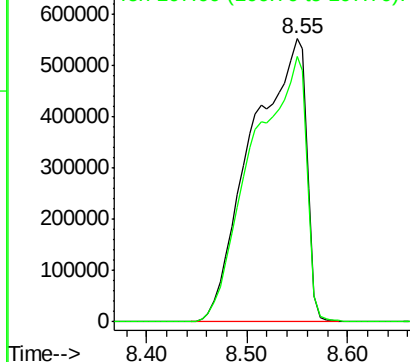
Ion Ratio Lower Upper

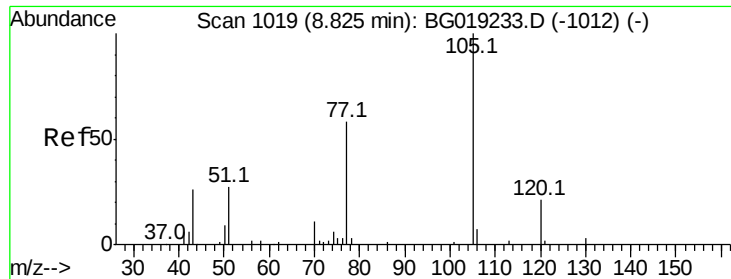
108 100

107 93.7 76.7 115.1



Abundance Ion 108.00 (107.70 to 108.70): BGC
Ion 107.00 (106.70 to 107.70): BGC





#14

Acetophenone

Concen: 41.47 ng/ul

RT: 8.83 min Scan# 1019

Delta R.T. 0.00 min

Lab File: BG019236.D

Acq: 16 Oct 2015 23:15

Instrument :

BNA_G

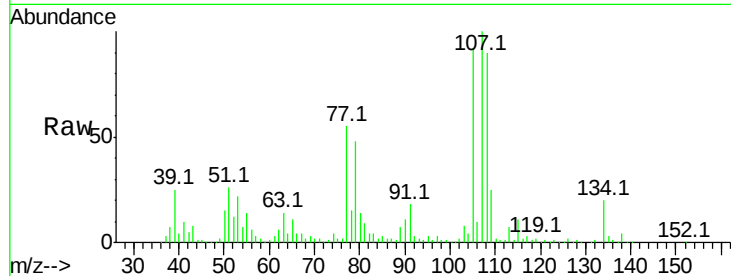
ClientSampled :

E5LK7

Tot Ion:	105	Resp:	133358
Ion Ratio	Lower	Upper	
105	100		
77	59.4	63.8	95.6#
51	28.7	26.1	39.1

Manual Integrations
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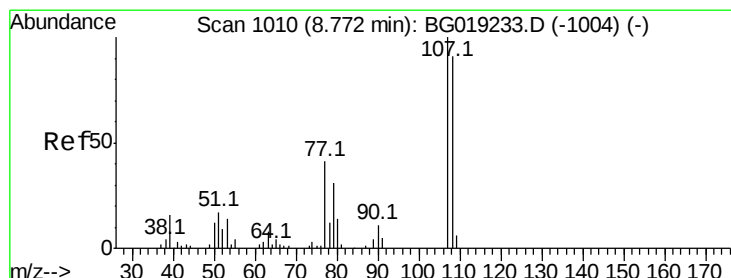
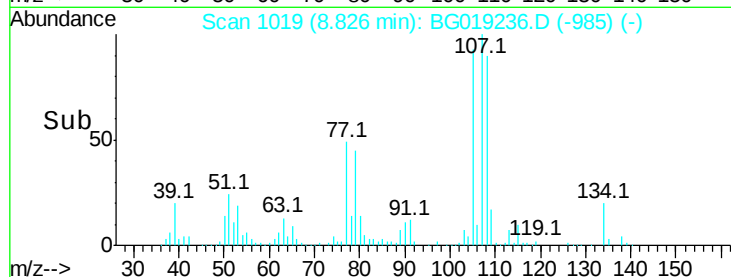
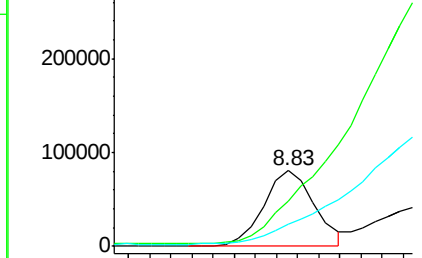
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Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#16

4-Methylphenol

Concen: 1940.40 ng/ul m

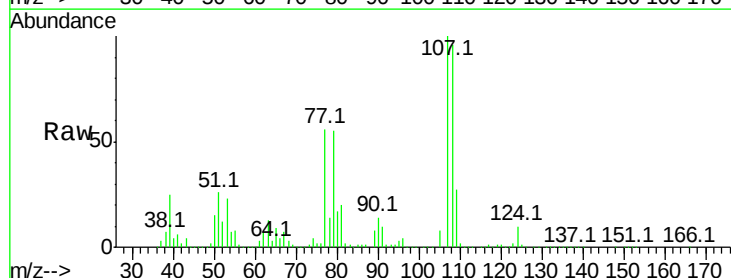
RT: 8.95 min Scan# 1041

Delta R.T. 0.18 min

Lab File: BG019236.D

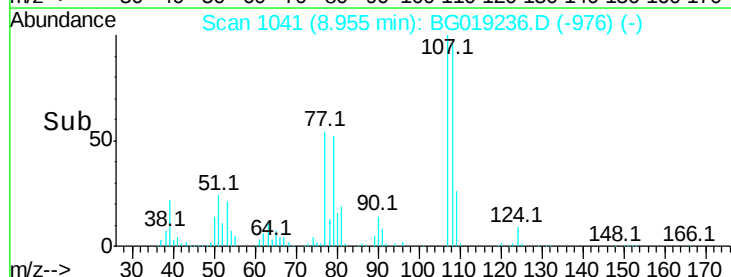
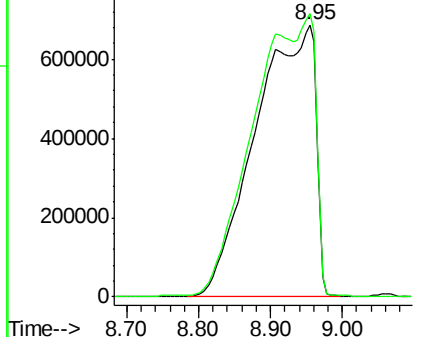
Acq: 16 Oct 2015 23:15

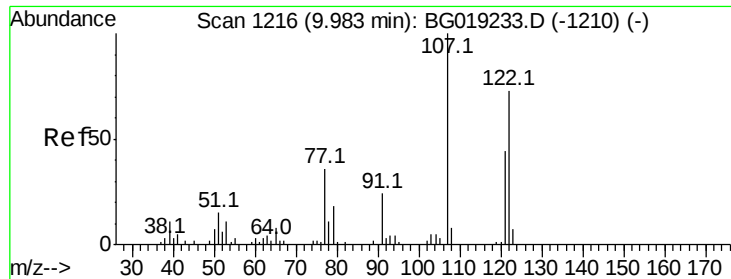
Tgt Ion:	108	Resp:	4001457
Ion Ratio	Lower	Upper	
108	100		
107	104.1	86.6	130.0



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E





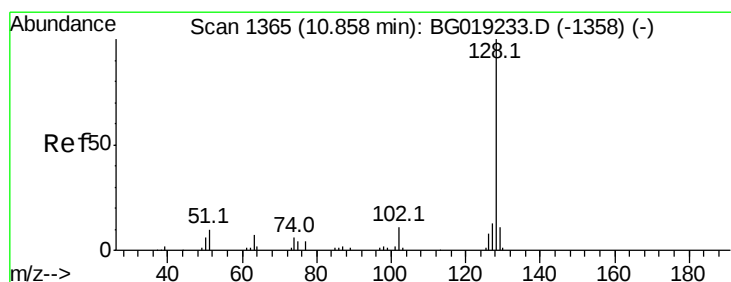
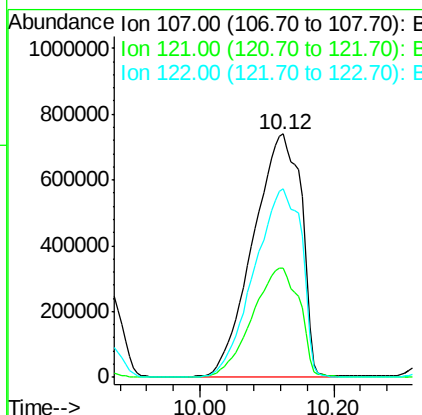
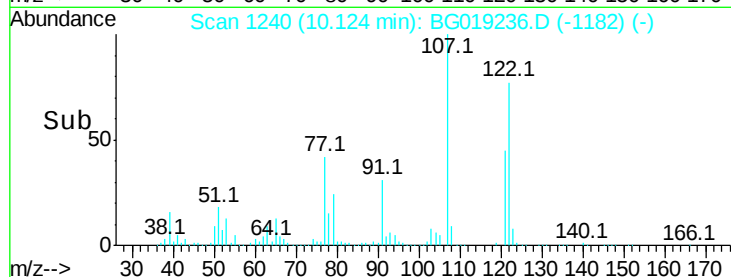
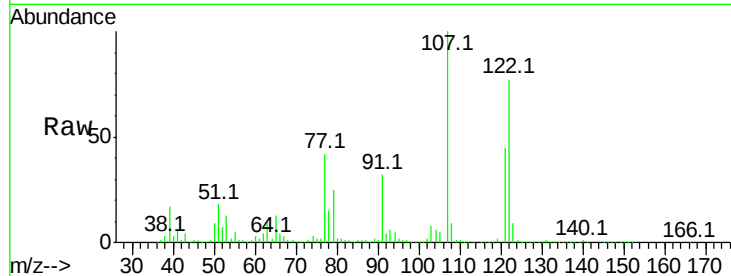
#24
2,4-Dimethylphenol
Concen: 1423.57 ng/ul
RT: 10.12 min Scan# 1240
Delta R.T. 0.14 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Instrument :
BNA_G
ClientSampled :
E5LK7

Tot Ion:107 Resp: 3704754
Ion Ratio Lower Upper
107 100
121 45.1 37.2 55.8
122 77.4 67.6 101.4

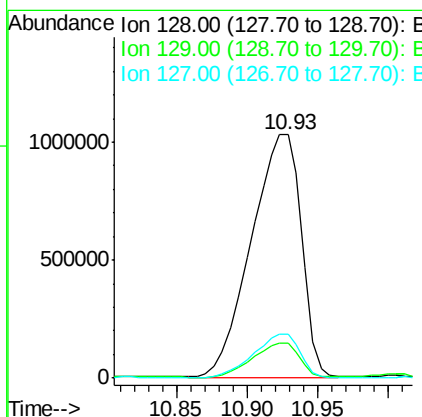
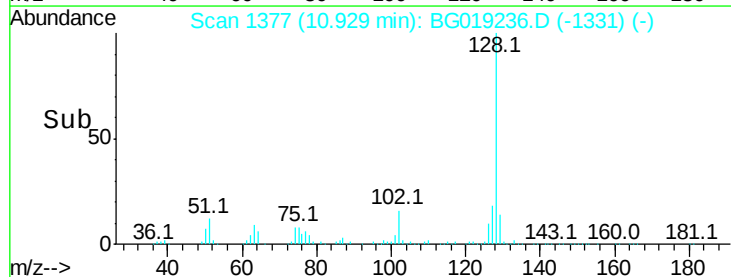
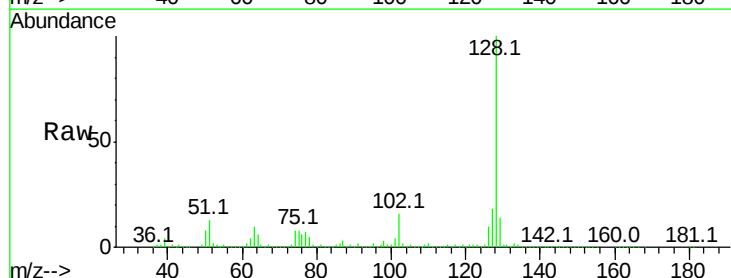
Manual Integrations
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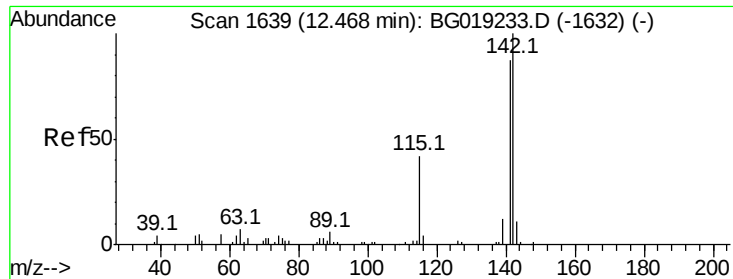
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#28
Naphthalene
Concen: 397.44 ng/ul
RT: 10.93 min Scan# 1377
Delta R.T. 0.07 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Tgt Ion:128 Resp: 2568460
Ion Ratio Lower Upper
128 100
129 14.2 9.6 14.4
127 18.1 11.3 16.9#





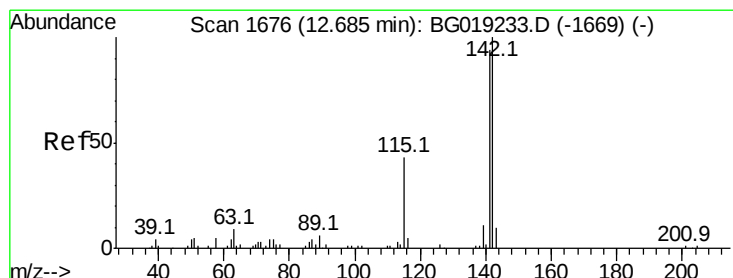
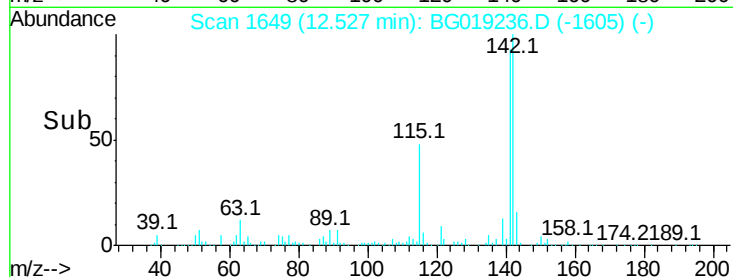
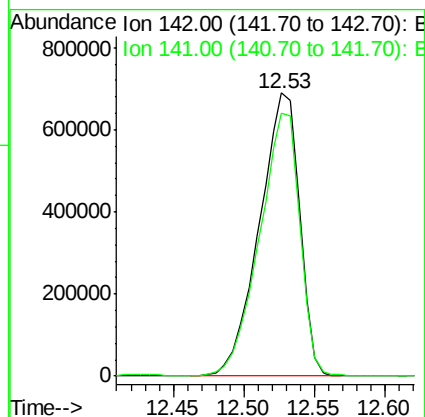
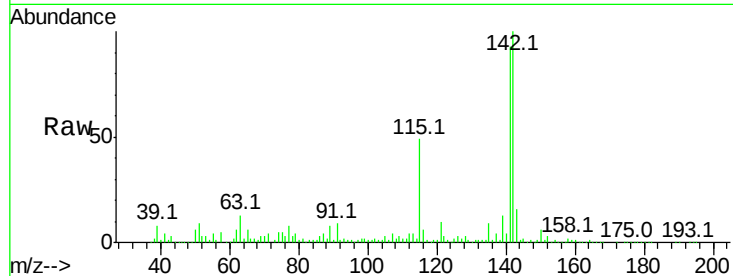
#34
2-Methylnaphthalene
Concen: 267.18 ng/ul
RT: 12.53 min Scan# 1649
Delta R.T. 0.06 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Instrument :
BNA_G
ClientSampleId :
E5LK7

Tot Ion:142 Resp: 1368707
Ion Ratio Lower Upper
142 100
141 92.9 73.4 110.0

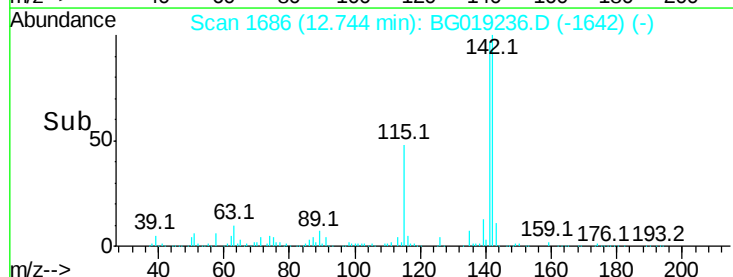
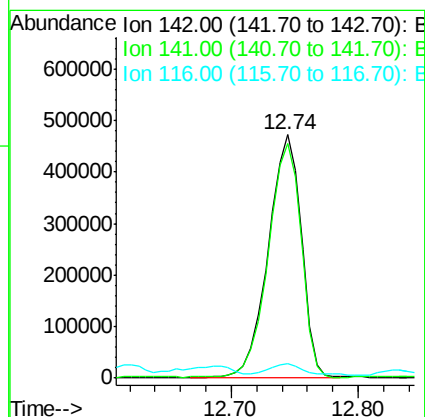
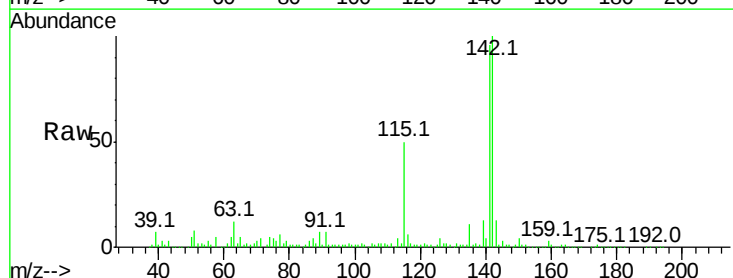
Manual Integrations
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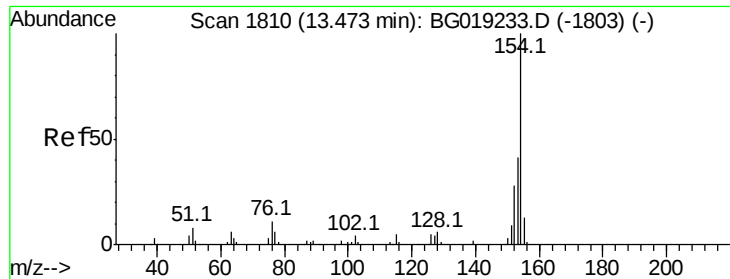
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#35
1-Methylnaphthalene
Concen: 170.89 ng/ul
RT: 12.74 min Scan# 1686
Delta R.T. 0.06 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Tgt Ion:142 Resp: 857328
Ion Ratio Lower Upper
142 100
141 96.3 74.8 112.2
116 5.8 3.2 4.8#





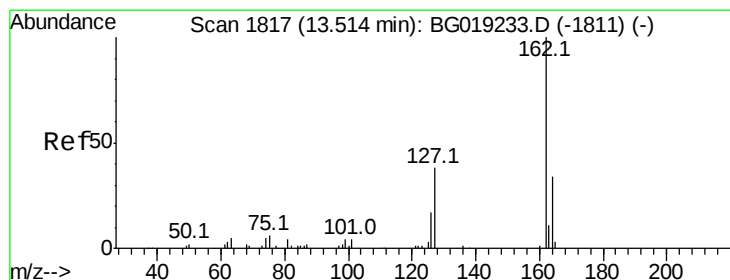
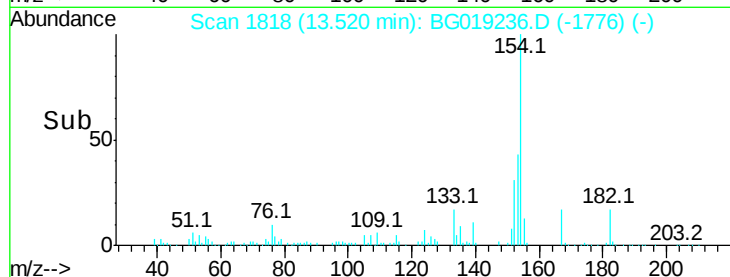
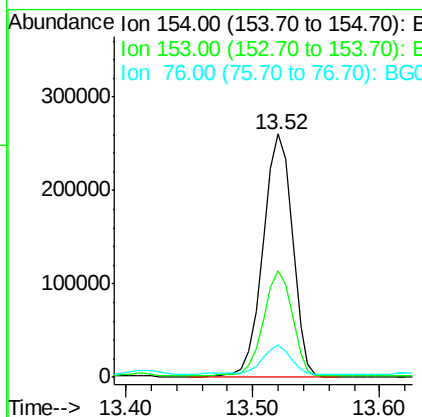
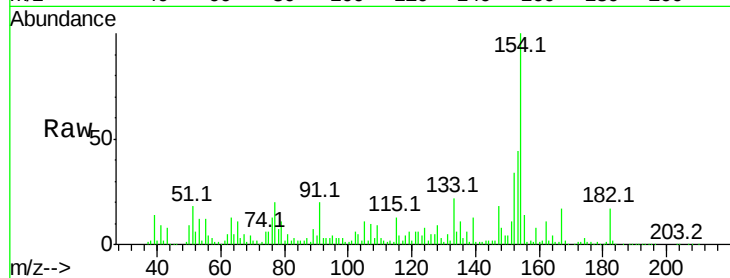
#41
1,1'-Biphenyl
Concen: 83.48 ng/ul
RT: 13.52 min Scan# 1818
Delta R.T. 0.05 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Instrument :
BNA_G
ClientSampleId :
E5LK7

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	43.8	31.4	47.0	
76	13.1	10.8	16.2	

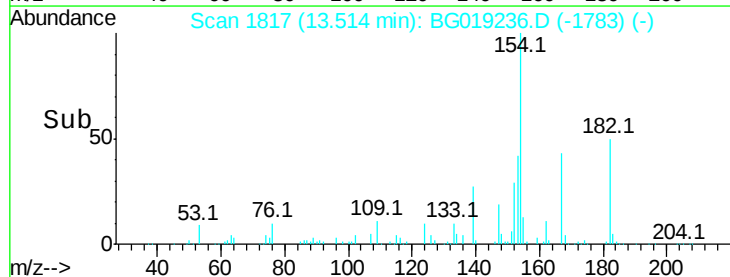
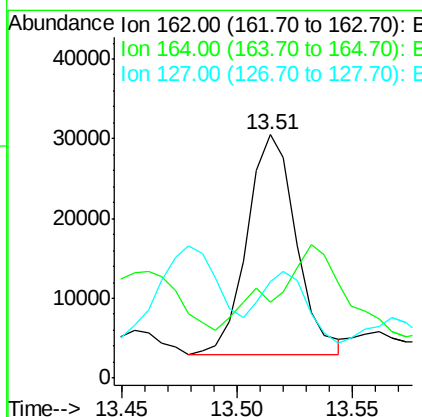
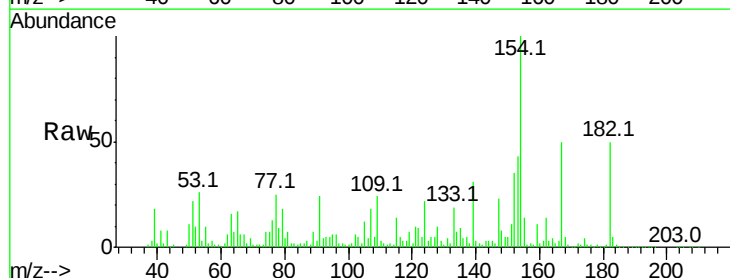
Manual Integrations
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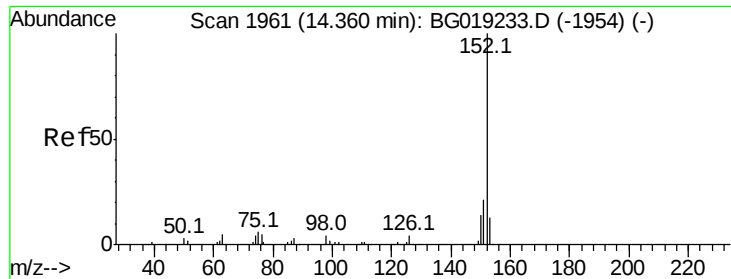
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#42
2-Chloronaphthalene
Concen: 10.46 ng/ul
RT: 13.51 min Scan# 1817
Delta R.T. 0.00 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Tgt Ion	Ratio	Resp	Lower	Upper
162	100			
164	31.3	25.8	38.8	
127	39.4	29.0	43.4	





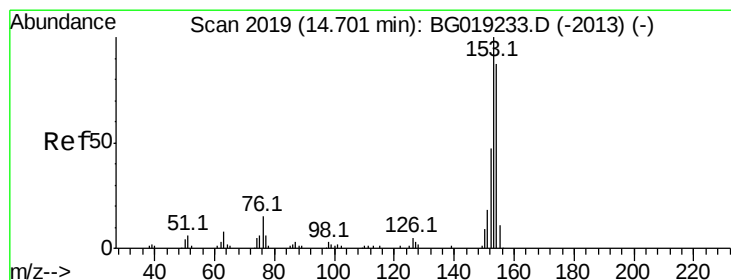
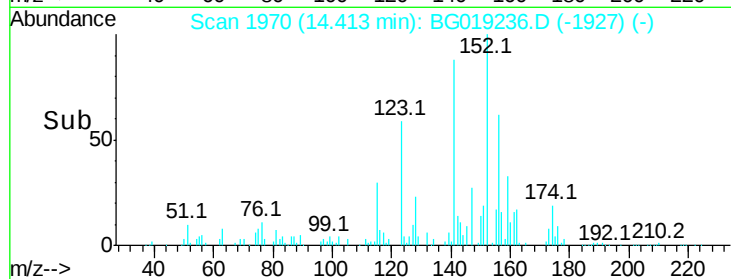
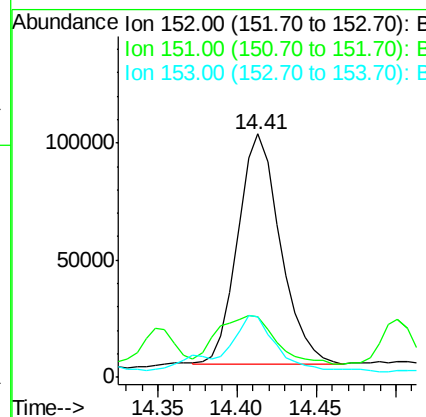
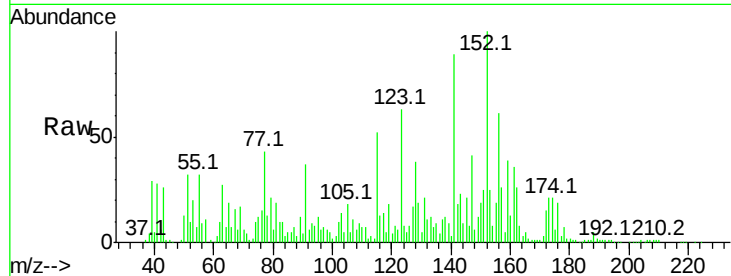
#48
Acenaphthylene
Concen: 27.46 ng/ul
RT: 14.41 min Scan# 1970
Delta R.T. 0.05 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Instrument :
BNA_G
ClientSampleId :
E5LK7

Tot Ion	Ratio	Resp	Lower	Upper
152	100	184664		
151	24.8	16.6	25.0	
153	24.7	10.5	15.7	

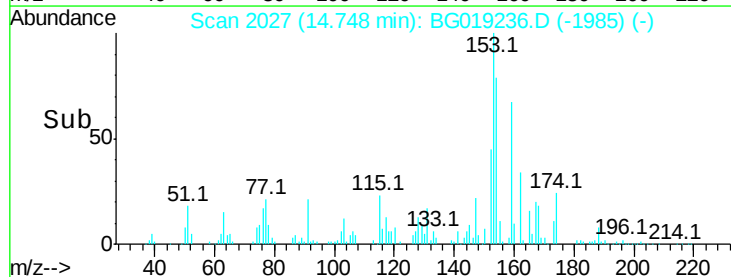
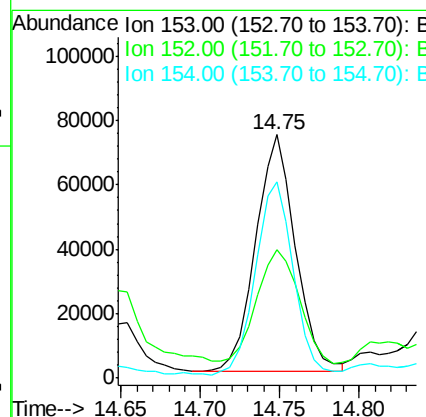
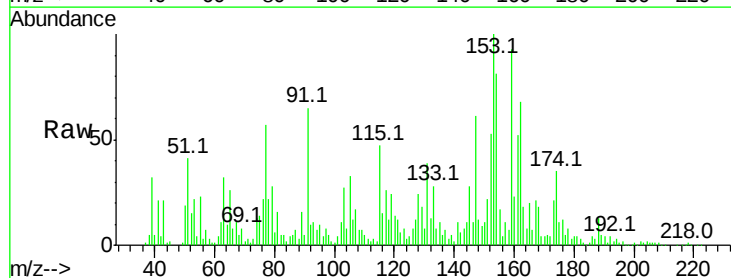
Manual Integrations
APPROVED

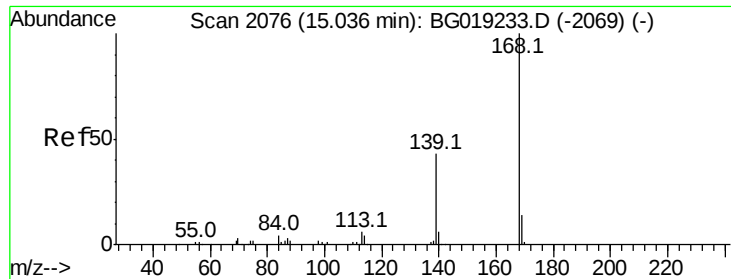
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#50
Acenaphthene
Concen: 28.32 ng/ul
RT: 14.75 min Scan# 2027
Delta R.T. 0.05 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Tgt Ion	Ratio	Resp	Lower	Upper
153	100	127529		
152	52.8	36.2	54.2	
154	80.6	67.5	101.3	





#54

Dibenzofuran

Concen: 91.09 ng/ul

RT: 15.09 min Scan# 2085

Delta R.T. 0.05 min

Lab File: BG019236.D

Acq: 16 Oct 2015 23:15

Instrument :

BNA_G

ClientSampleId :

E5LK7

Tot Ion:168 Resp: 579700

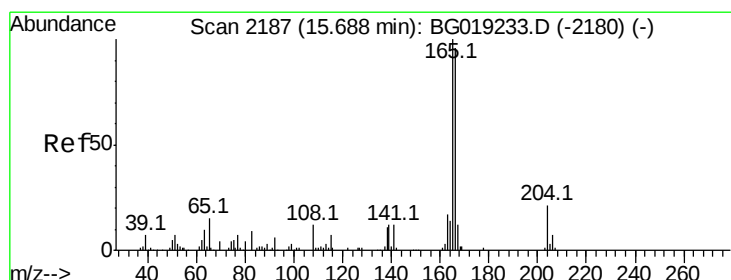
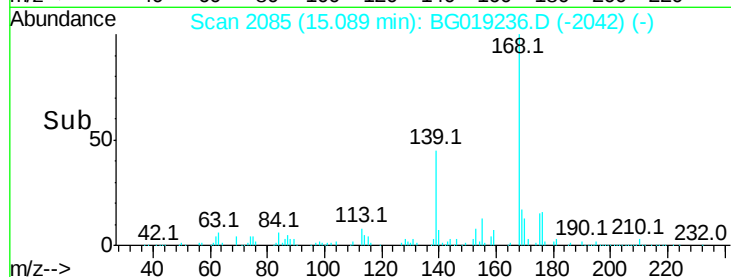
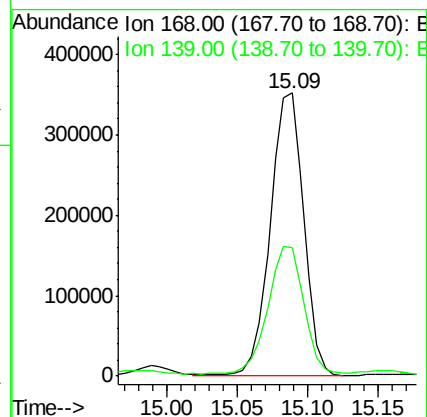
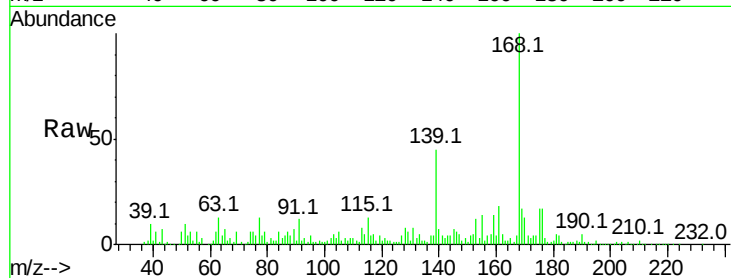
Ion Ratio Lower Upper

168 100

139 45.4 28.5 42.7#

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#59

Fluorene

Concen: 76.68 ng/ul

RT: 15.74 min Scan# 2195

Delta R.T. 0.05 min

Lab File: BG019236.D

Acq: 16 Oct 2015 23:15

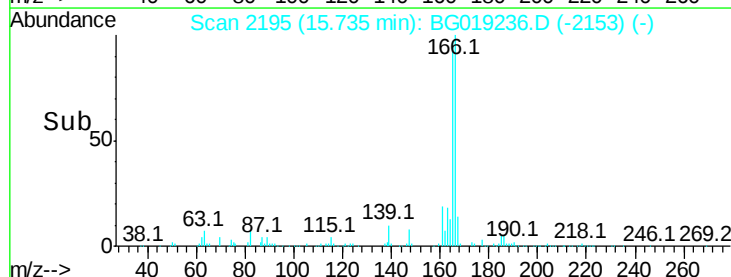
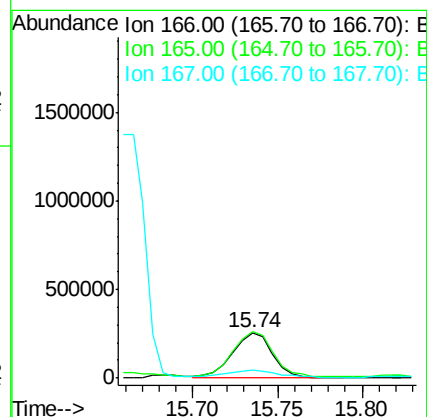
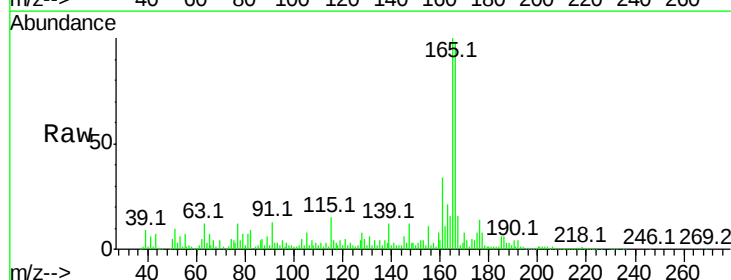
Tgt Ion:166 Resp: 417656

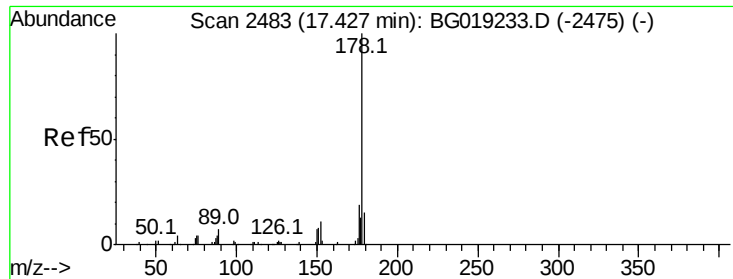
Ion Ratio Lower Upper

166 100

165 101.6 77.7 116.5

167 16.5 10.4 15.6#





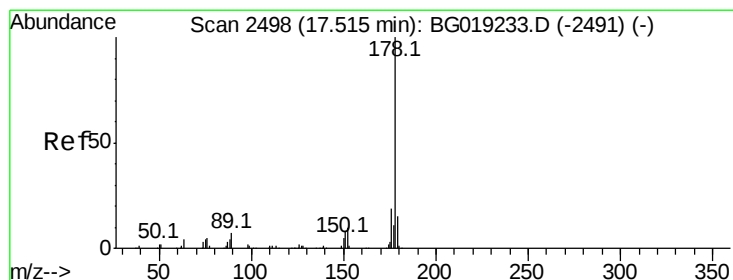
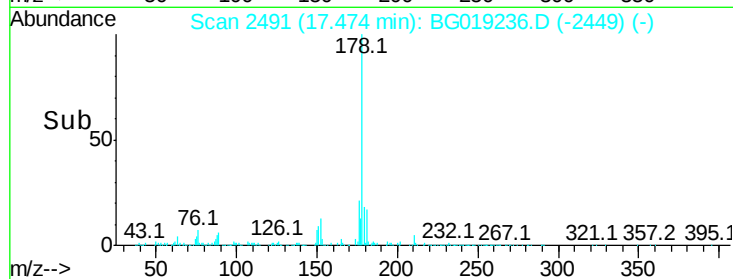
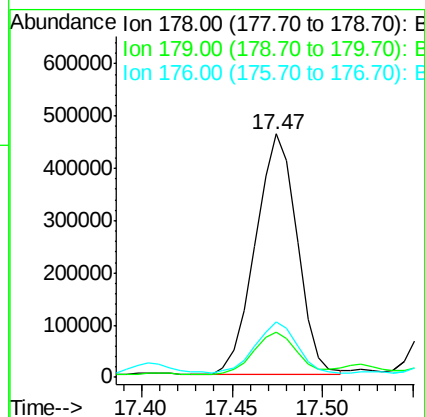
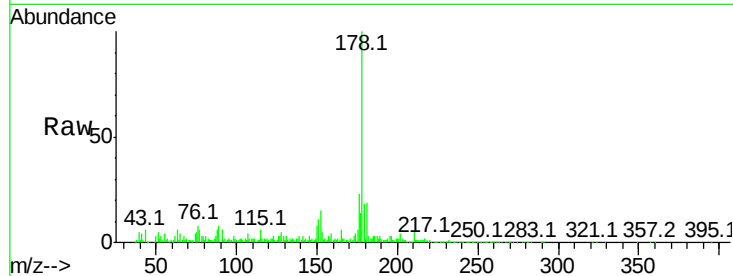
#70
Phenanthrene
Concen: 105.97 ng/ul
RT: 17.47 min Scan# 2491
Delta R.T. 0.05 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Instrument :
BNA_G
ClientSampleId :
E5LK7

Tot Ion	Ratio	Resp Lower	Resp Upper
178	100		
179	18.4	12.5	18.7
176	22.8	15.4	23.0

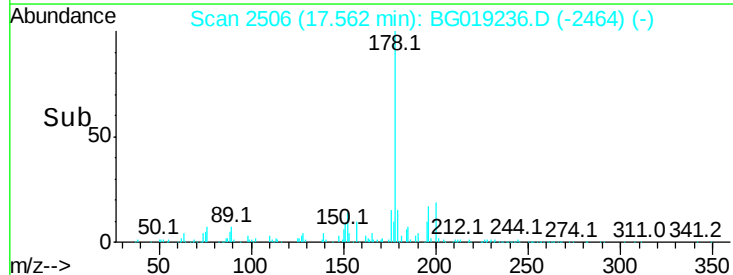
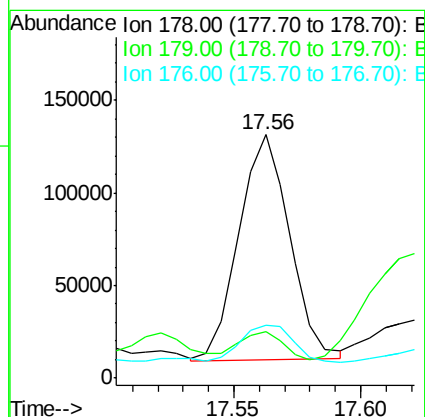
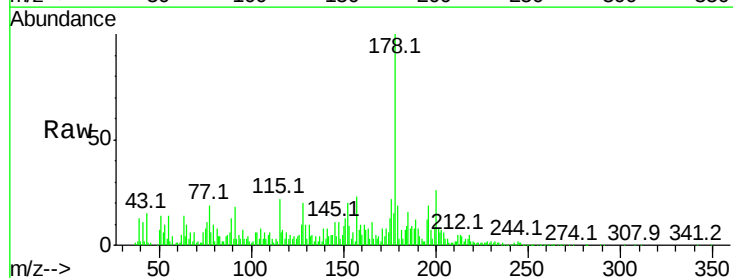
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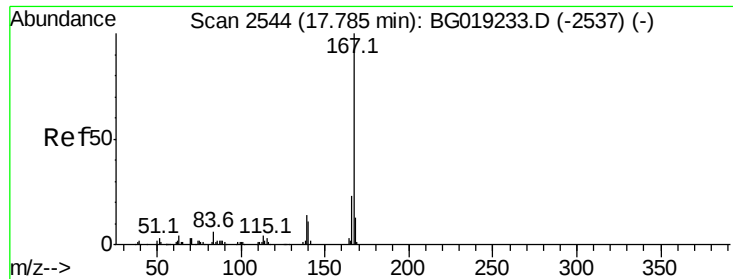
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#72
Anthracene
Concen: 23.93 ng/ul
RT: 17.56 min Scan# 2506
Delta R.T. 0.05 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
179	19.3	12.2	18.4#
176	21.9	15.0	22.6





#75

Carbazole

Concen: 8.93 ng/ul m

RT: 17.86 min Scan# 2556

Delta R.T. 0.07 min

Lab File: BG019236.D

Acq: 16 Oct 2015 23:15

Instrument :

BNA_G

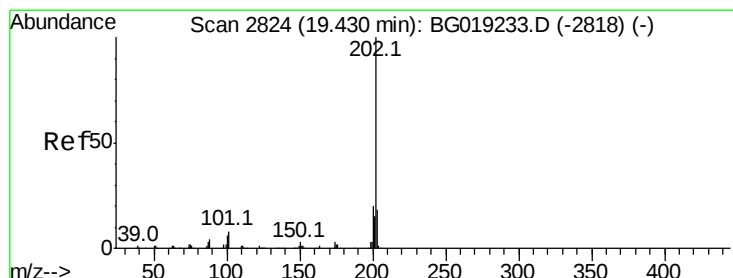
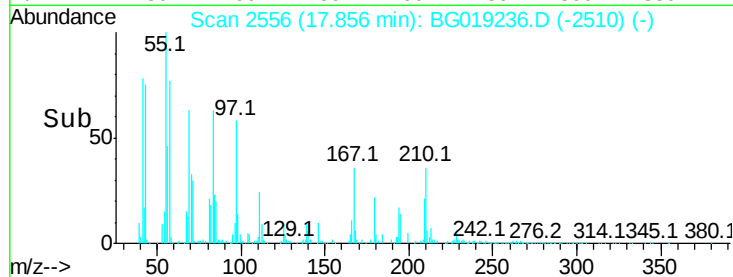
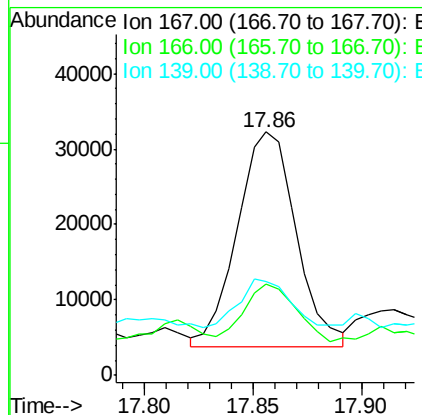
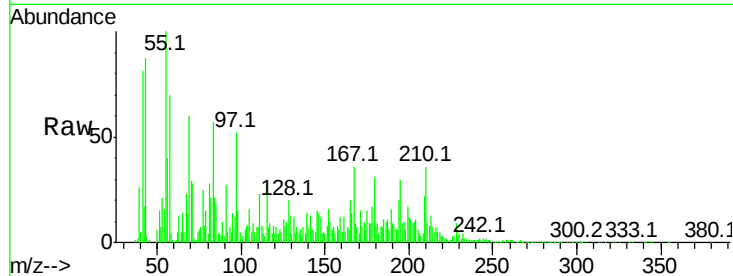
ClientSampleId :

E5LK7

Tot Ion	Ratio	Lower	Upper
167	100		
166	37.8	18.6	27.8#
139	38.8	9.8	14.8#

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#77

Fluoranthene

Concen: 24.82 ng/ul

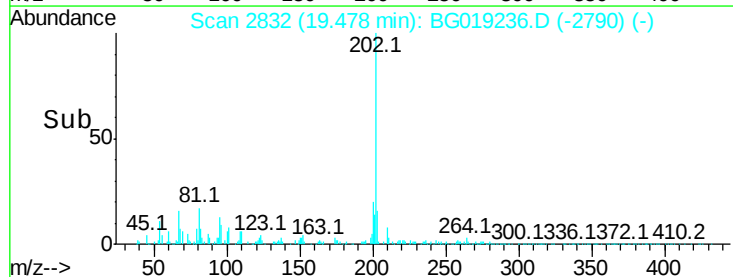
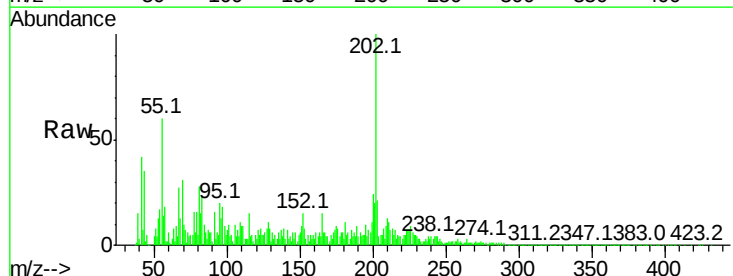
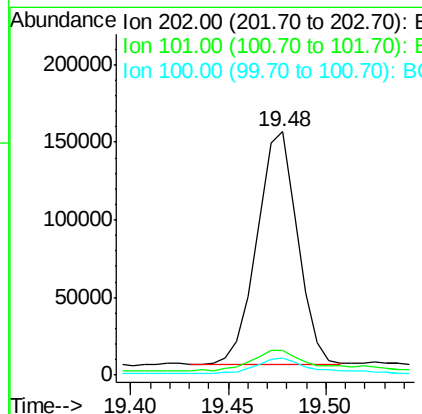
RT: 19.48 min Scan# 2832

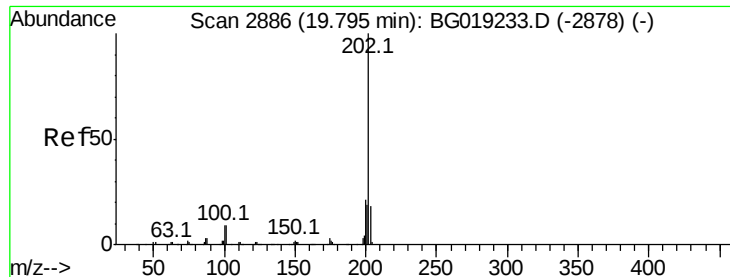
Delta R.T. 0.05 min

Lab File: BG019236.D

Acq: 16 Oct 2015 23:15

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.9	9.0	13.4
100	7.0	6.9	10.3





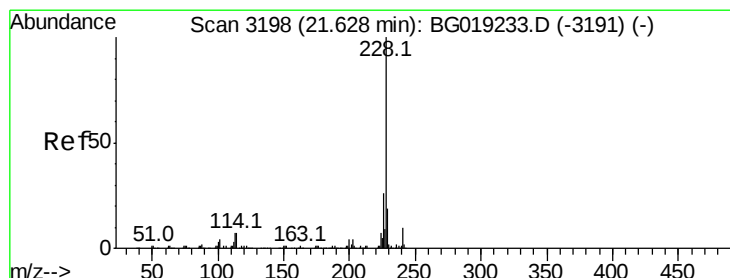
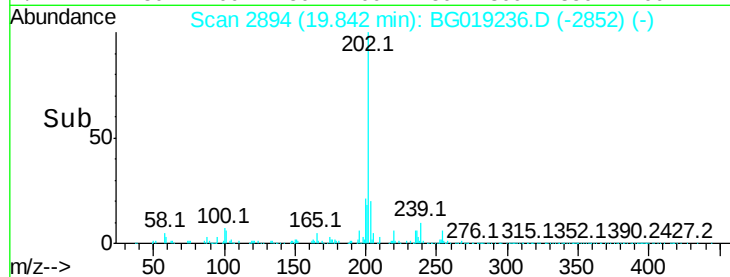
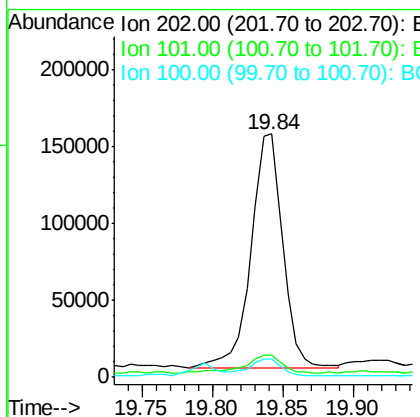
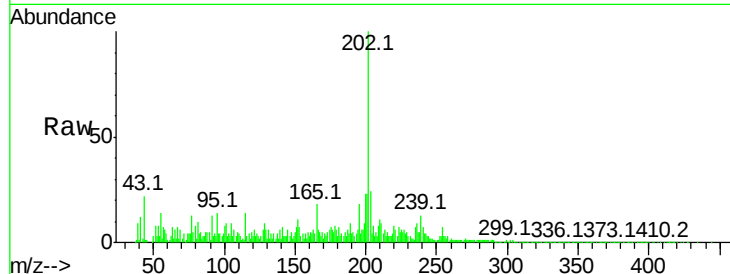
#80
Pvrene
Concen: 26.29 ng/ul
RT: 19.84 min Scan# 2894
Delta R.T. 0.05 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Instrument :
BNA_G
ClientSampleId :
E5LK7

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	8.9	10.2	15.2#
100	7.6	8.5	12.7#

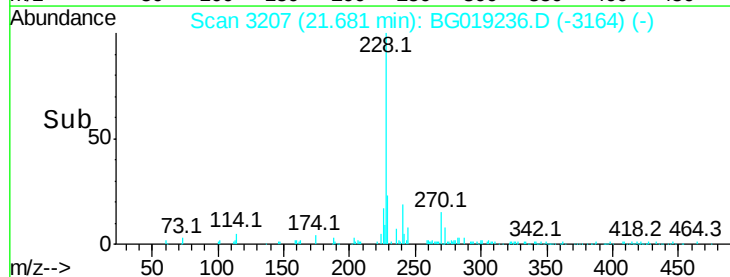
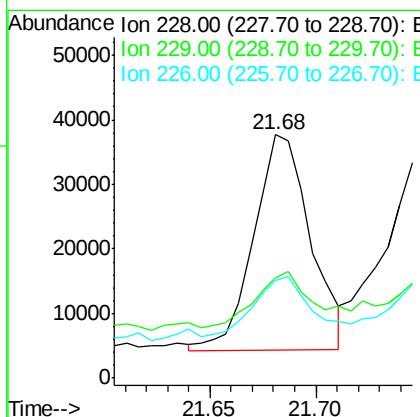
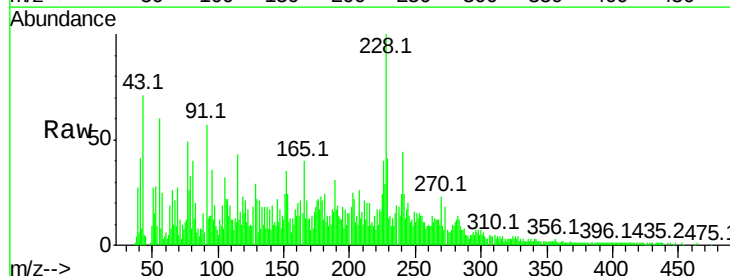
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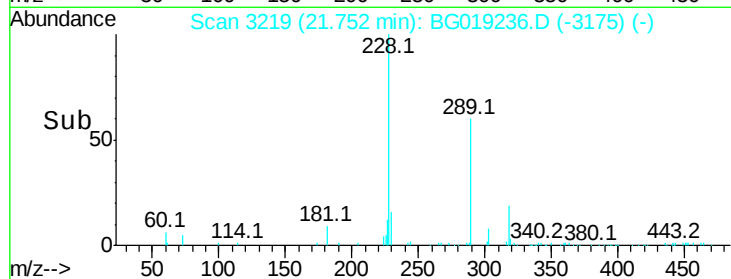
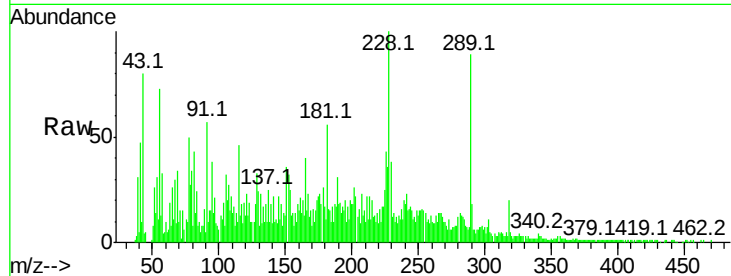
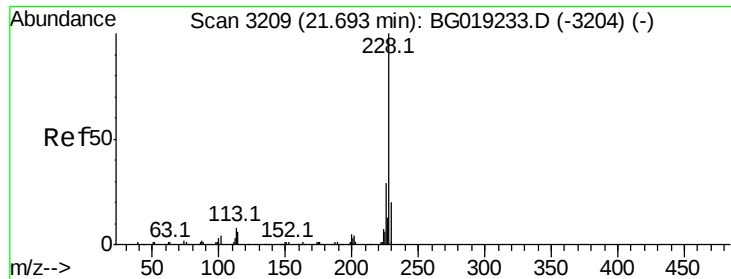
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#83
Benzo(a)anthracene
Concen: 7.14 ng/ul
RT: 21.68 min Scan# 3207
Delta R.T. 0.05 min
Lab File: BG019236.D
Acq: 16 Oct 2015 23:15

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
229	41.4	16.6	24.8#
226	40.1	22.8	34.2#





#85

Chrysene

Concen: 8.29 ng/ul

RT: 21.75 min Scan# 3219

Delta R.T. 0.06 min

Lab File: BG019236.D

Acq: 16 Oct 2015 23:15

Instrument :

BNA_G

ClientSampleId :

E5LK7

Tot Ion:	228	Resp:	67963
Ion Ratio	Lower	Upper	
228	100		
226	43.3	24.2	36.2#
229	38.0	15.6	23.4#

Manual Integrations
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