

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121715\
 Data File : BG020240.D
 Acq On : 17 Dec 2015 3:26
 Operator : UM/SJ
 Sample : G4767-20
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N42

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 12:00:26 PM

Quant Time: Dec 17 06:15:58 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 17 03:53:00 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.10	152	25020	20.00	ng/ul	0.00
18) Naphthalene-d8	10.92	136	117457	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.73	164	84061	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.48	188	187350	20.00	ng/ul	0.00
78) Chrysene-d12	21.74	240	217030	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	208109	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	2013	4.44	ng/uL	0.00
5) Phenol-d5	7.25	99	60130	27.26	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.42	67	36578	27.79	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	46961	29.27	ng/ul	0.00
13) 4-Methylphenol-d8	8.80	113	54867	29.08	ng/ul	0.00
19) Nitrobenzene-d5	9.26	128	25630	27.99	ng/ul	0.00
22) 2-Nitrophenol-d4	9.98	143	30753	30.18	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.53	165	57184	27.71	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	73712	31.80	ng/ul	0.00
44) Dimethylphthalate-d6	14.13	166	187179	27.53	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	183567	23.20	ng/ul	0.00
52) 4-Nitrophenol-d4	14.91	143	30038	24.63	ng/ul	0.00
58) Fluorene-d10	15.72	176	134543	21.82	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.84	200	18210	16.40	ng/ul	0.01
71) Anthracene-d10	17.58	188	205245	23.78	ng/ul	0.01
79) Pyrene-d10	19.86	212	235562	23.29	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.79	264	268922	25.91	ng/ul	0.00

Target Compounds

					Qvalue	
6) Phenol	7.28	94	4251	1.80	ng/ul	92
16) 4-Methylphenol	8.86	108	3427	1.72	ng/ul	98
24) 2,4-Dimethylphenol	10.07	107	4290m	1.73	ng/ul	
28) Naphthalene	10.98	128	2722056	443.78	ng/ul#	85
34) 2-Methylnaphthalene	12.57	142	866195	184.88	ng/ul	97
35) 1-Methylnaphthalene	12.79	142	435964	96.79	ng/ul#	98
41) 1,1'-Biphenyl	13.56	154	352979	55.66	ng/ul	96
45) Dimethylphthalate	14.17	163	90280	13.00	ng/ul	98
48) Acenaphthylene	14.45	152	124851	14.86	ng/ul#	97
50) Acenaphthene	14.81	153	1406715	248.77	ng/ul	94
54) Dibenzofuran	15.13	168	1451071	172.50	ng/ul	90
59) Fluorene	15.78	166	1367182	202.39	ng/ul#	98
70) Phenanthrene	17.55	178	4063627m	396.54	ng/ul	
72) Anthracene	17.62	178	674672	64.91	ng/ul	96
75) Carbazole	17.88	167	597849	68.46	ng/ul	98
77) Fluoranthene	19.53	202	2531381	211.36	ng/ul#	88
80) Pyrene	19.89	202	1915035	145.79	ng/ul#	94
83) Benzo(a)anthracene	21.72	228	515727	40.73	ng/ul	96
85) Chrysene	21.79	228	413310	34.65	ng/ul	96
88) Benzo(b)fluoranthene	23.97	252	231548	18.49	ng/ul	95
89) Benzo(k)fluoranthene	24.03	252	90627m	7.54	ng/ul	
91) Benzo(a)pyrene	24.86	252	134056	11.29	ng/ul	97
92) Indeno(1,2,3-cd)pyrene	28.72	276	39485m	2.79	ng/ul	

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BNA_G
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D9N42

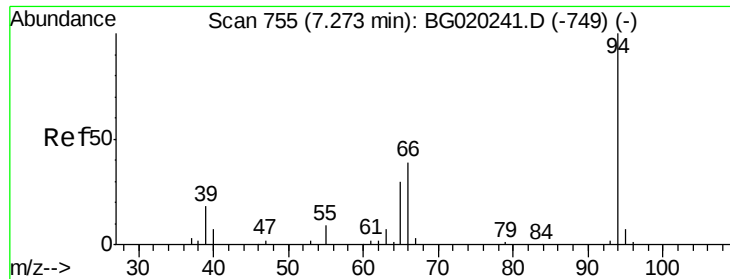
Manual Integrations
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12/17/2015 12:00:26 PM

Quant Time: Dec 17 06:15:58 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 17 03:53:00 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Dibenzo(a,h)anthracene	28.77	278	13693m	1.17	ng/ul	
94) Benzo(g,h,i)perylene	29.88	276	33309m	2.87	ng/ul	

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



#6

Phenol

Concen: 1.80 ng/ul

RT: 7.28 min Scan# 755

Delta R.T. 0.00 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

ClientSampleId :

D9N42

Tgt Ion: 94 Resp: 4251

Ion Ratio Lower Upper

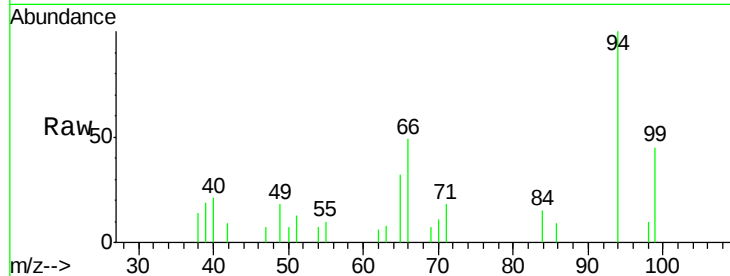
94 100

65 31.7 26.3 39.5

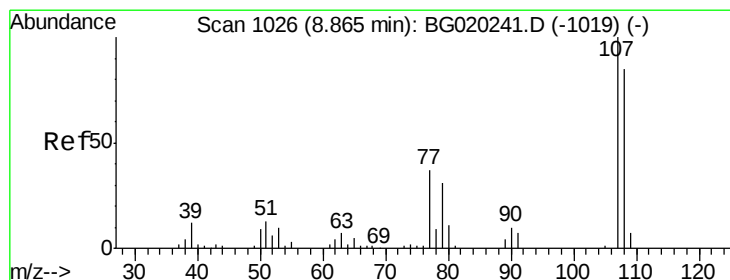
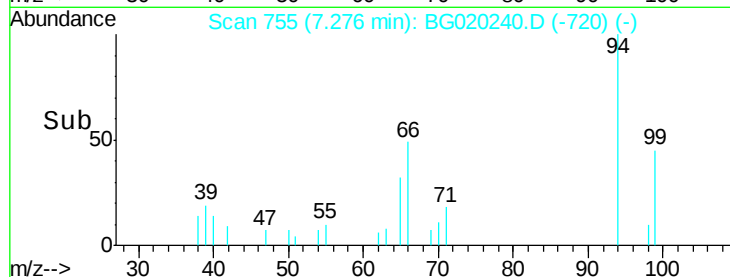
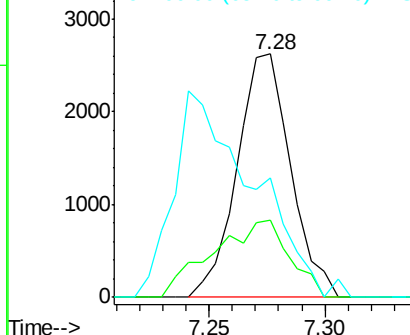
66 49.1 33.3 49.9

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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



#16

4-Methylphenol

Concen: 1.72 ng/ul

RT: 8.86 min Scan# 1024

Delta R.T. -0.01 min

Lab File: BG020240.D

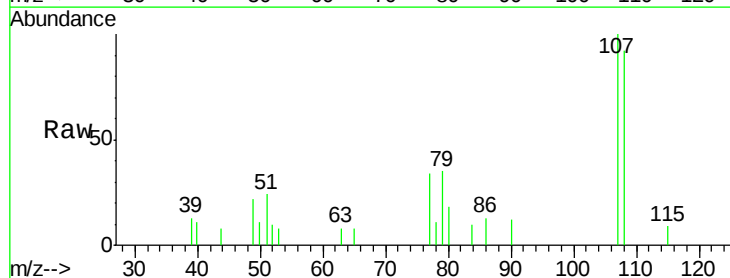
Acq: 17 Dec 2015 3:26

Tgt Ion: 108 Resp: 3427

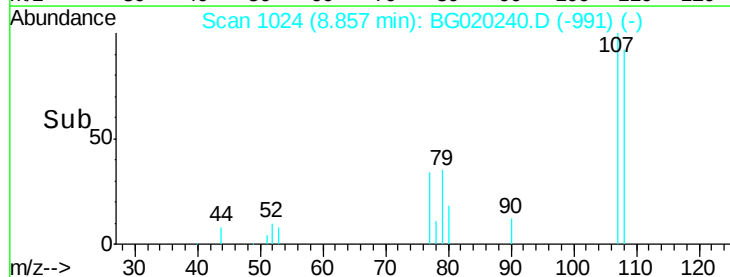
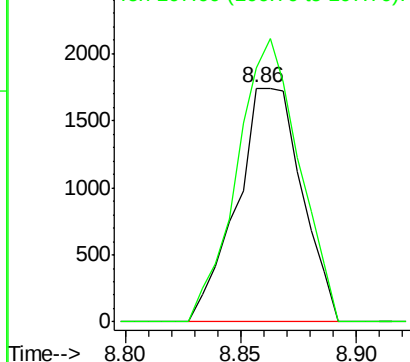
Ion Ratio Lower Upper

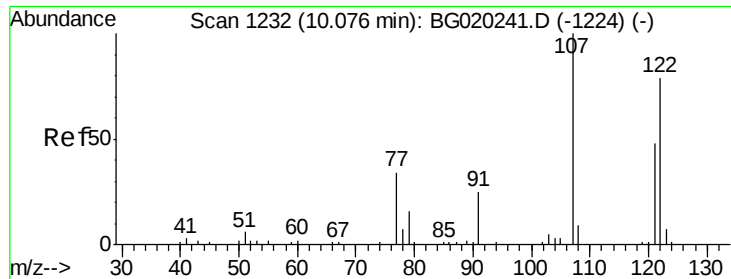
108 100

107 108.5 88.9 133.3



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





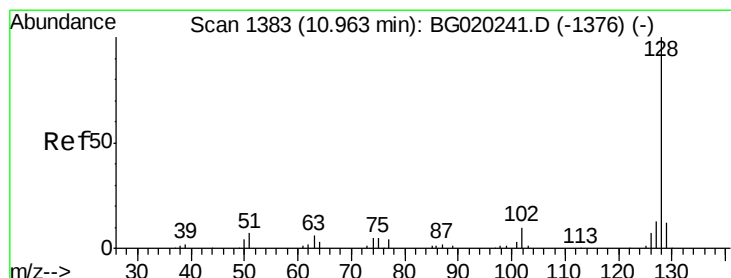
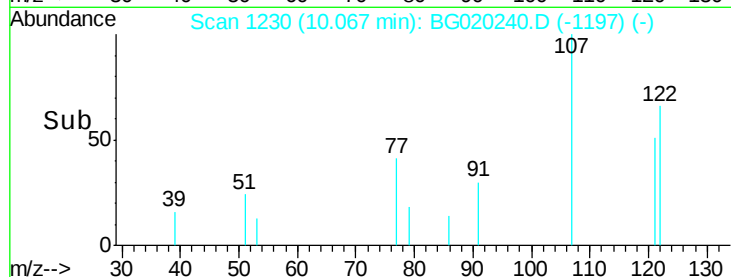
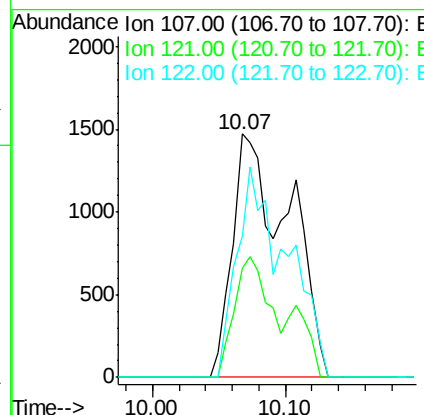
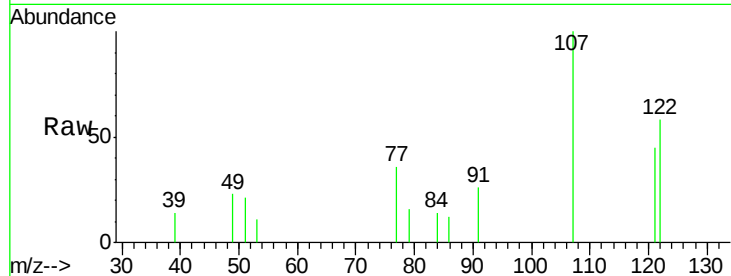
#24
2,4-Dimethylphenol
Concen: 1.73 ng/ul m
RT: 10.07 min Scan# 1230
Delta R.T. -0.01 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Instrument :
BNA_G
ClientSampleId :
D9N42

Tgt Ion	Ratio	Lower	Upper
107	100		
121	44.8	39.0	58.4
122	58.0	62.1	93.1#

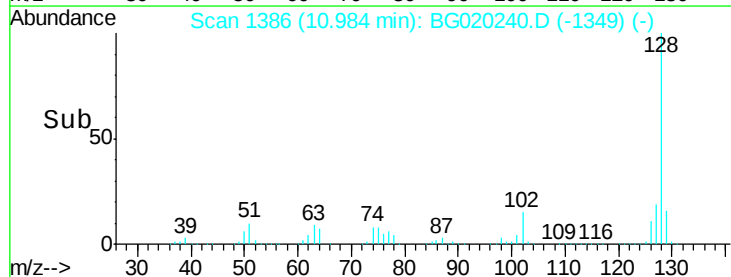
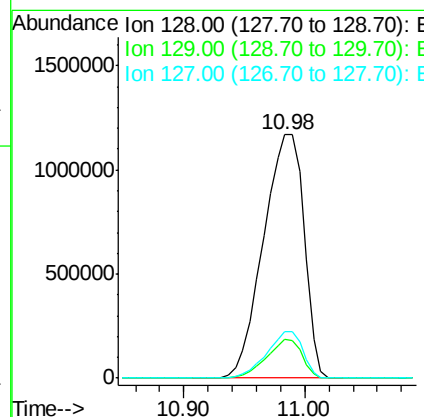
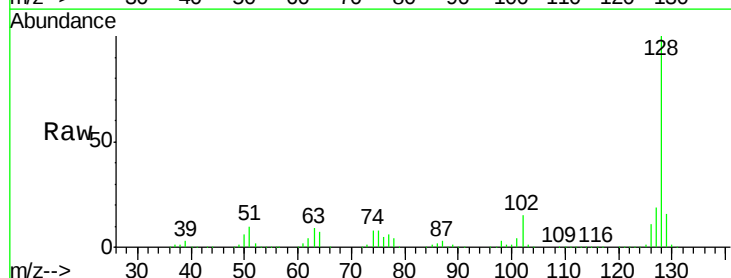
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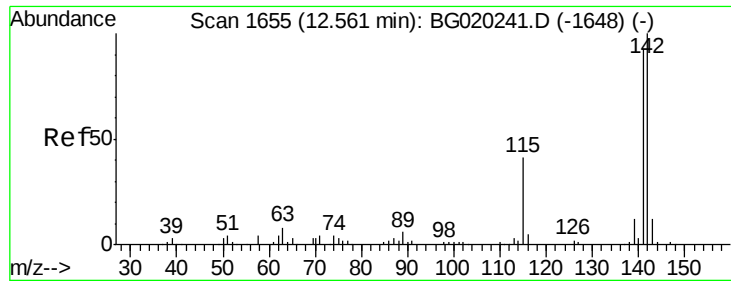
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#28
Naphthalene
Concen: 443.78 ng/ul
RT: 10.98 min Scan# 1386
Delta R.T. 0.01 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Tgt Ion	Ratio	Lower	Upper
128	100		
129	15.8	8.6	12.8#
127	19.0	10.1	15.1#





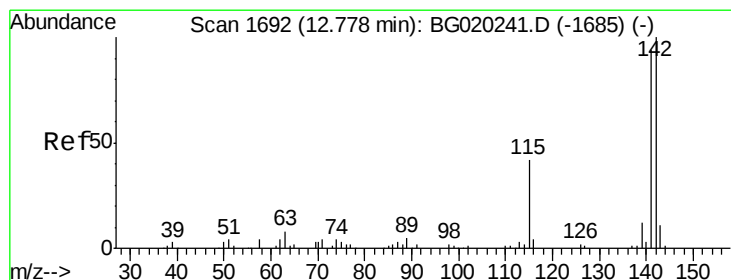
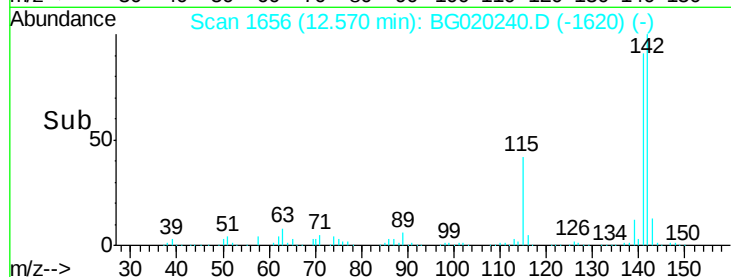
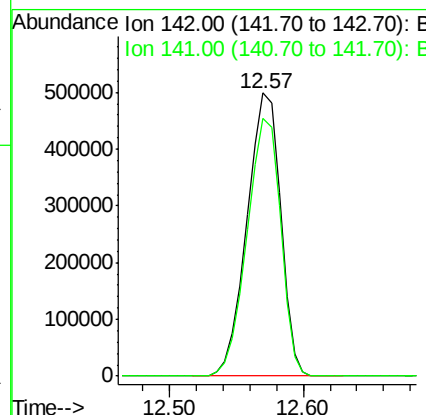
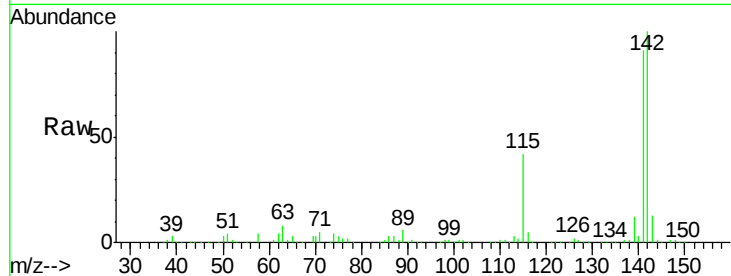
#34
 2-Methylnaphthalene
 Concen: 184.88 ng/ul
 RT: 12.57 min Scan# 1656
 Delta R.T. 0.01 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Instrument :
 BNA_G
 ClientSampleId :
 D9N42

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	866195		
141	91.1	74.9	112.3	

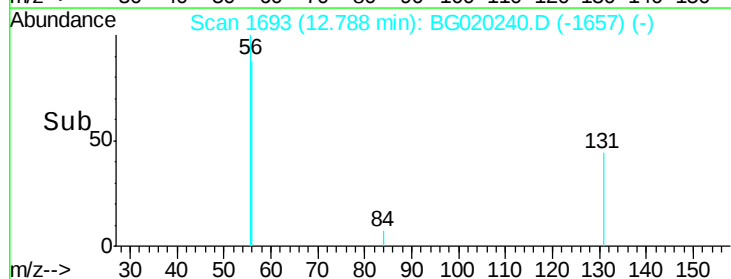
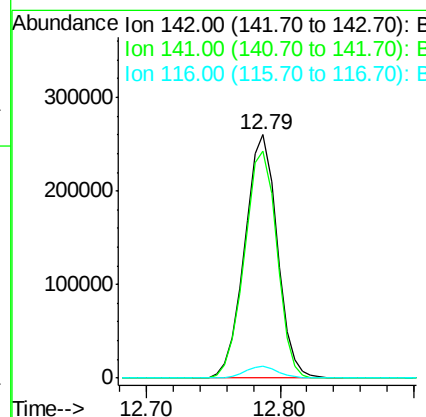
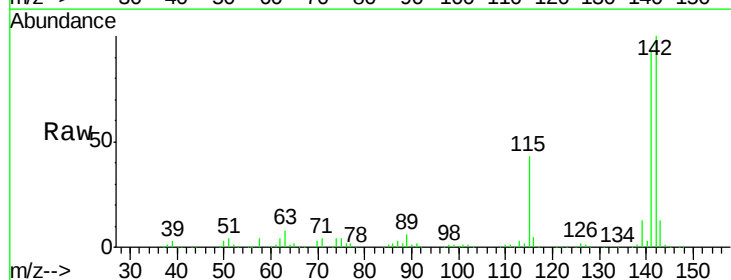
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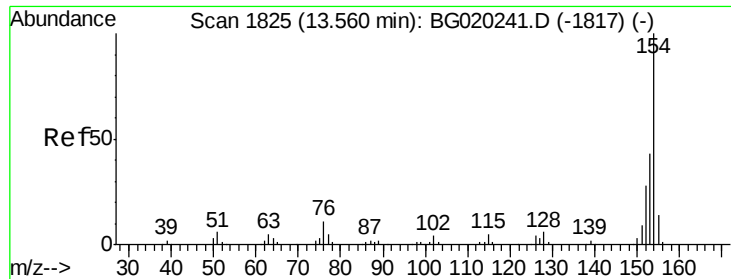
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#35
 1-Methylnaphthalene
 Concen: 96.79 ng/ul
 RT: 12.79 min Scan# 1693
 Delta R.T. 0.01 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	435964		
141	93.4	73.0	109.6	
116	4.7	3.0	4.6#	





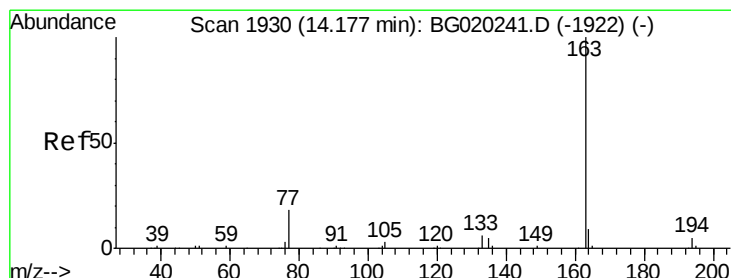
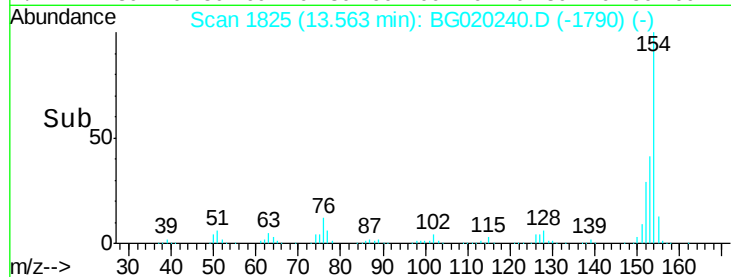
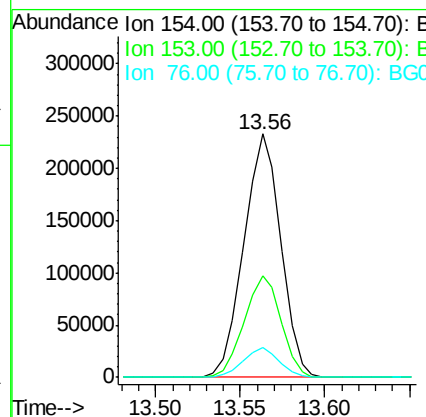
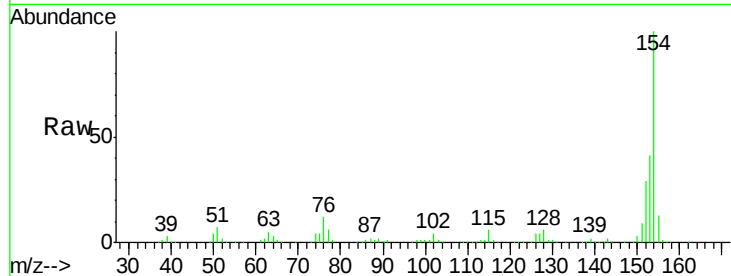
#41
 1,1'-Biphenyl
 Concen: 55.66 ng/ul
 RT: 13.56 min Scan# 1825
 Delta R.T. 0.00 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Instrument :
 BNA_G
 ClientSampleId :
 D9N42

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	352979		
153	41.5		35.5	53.3
76	12.2		10.4	15.6

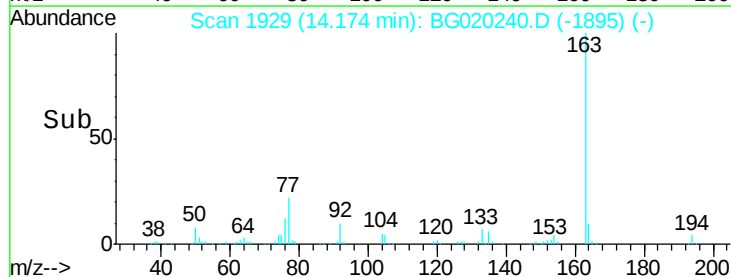
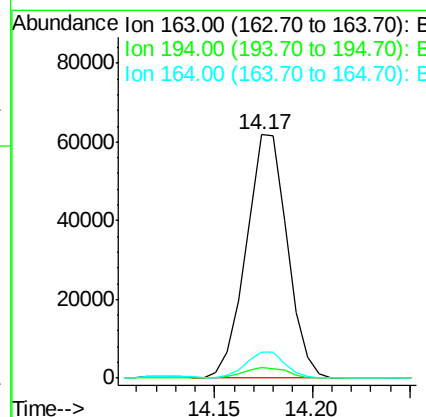
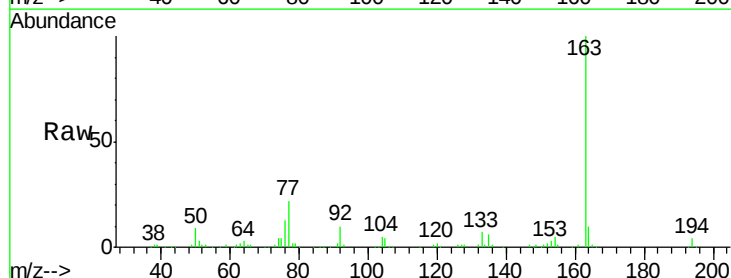
Manual Integrations
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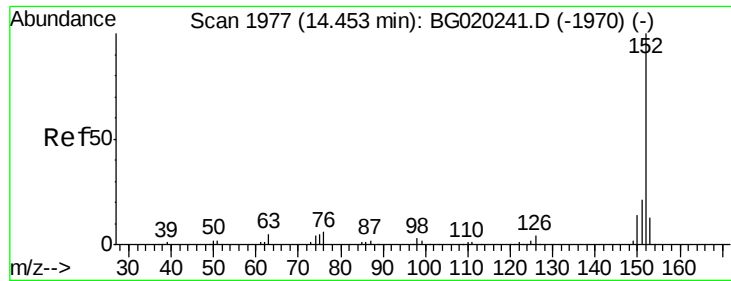
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#45
 Dimethylphthalate
 Concen: 13.00 ng/ul
 RT: 14.17 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	90280		
194	4.3		3.5	5.3
164	10.5		7.7	11.5





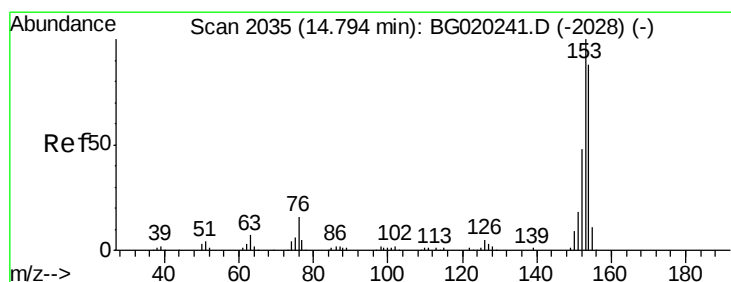
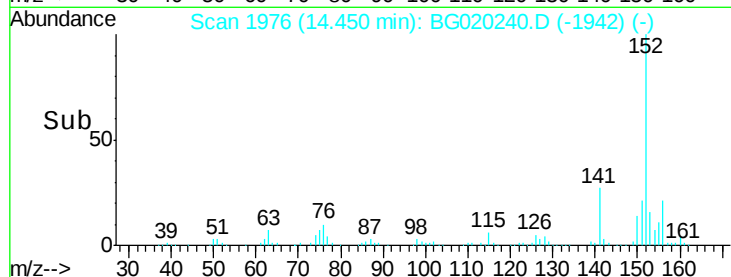
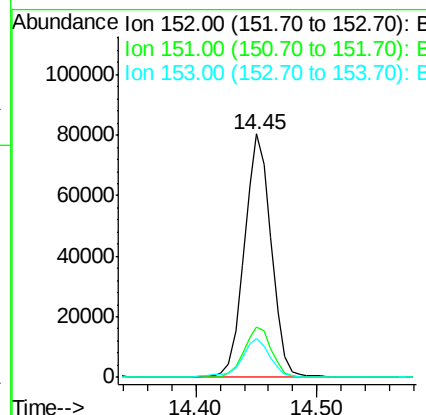
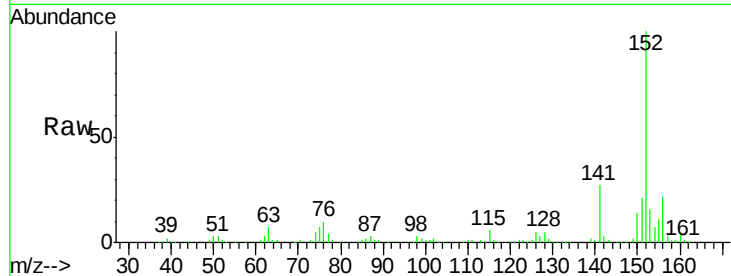
#48
Acenaphthylene
Concen: 14.86 ng/ul
RT: 14.45 min Scan# 1976
Delta R.T. -0.00 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Instrument :
BNA_G
ClientSampled :
D9N42

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	124851		
151	20.7	16.4	24.6	
153	15.7	10.4	15.6	

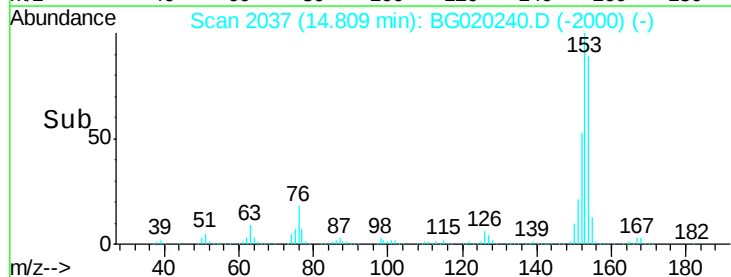
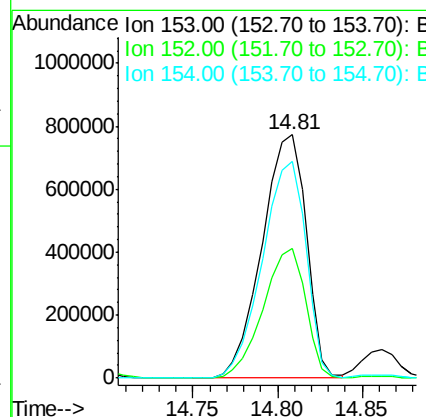
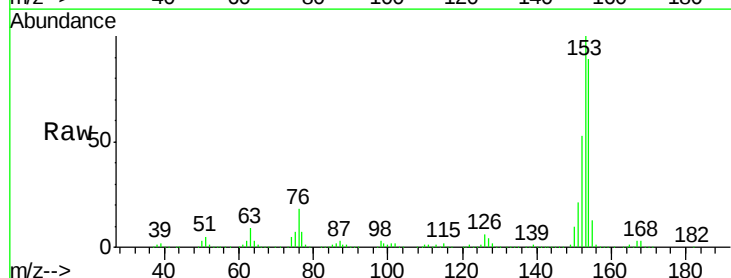
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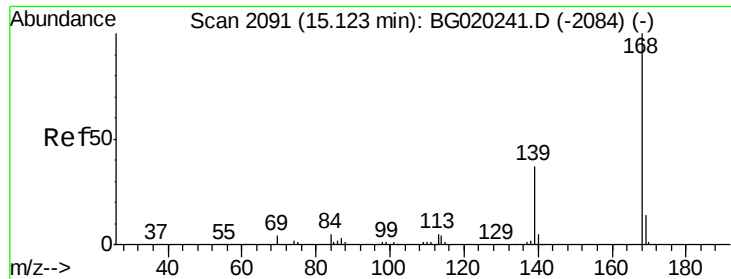
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#50
Acenaphthene
Concen: 248.77 ng/ul
RT: 14.81 min Scan# 2037
Delta R.T. 0.01 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Tgt Ion	Ratio	Resp	Lower	Upper
153	100	1406715		
152	53.1	37.6	56.4	
154	89.2	67.9	101.9	





#54

Dibenzofuran

Concen: 172.50 ng/ul

RT: 15.13 min Scan# 2092

Delta R.T. 0.01 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

ClientSampleId :

D9N42

Tgt Ion:168 Resp: 1451071

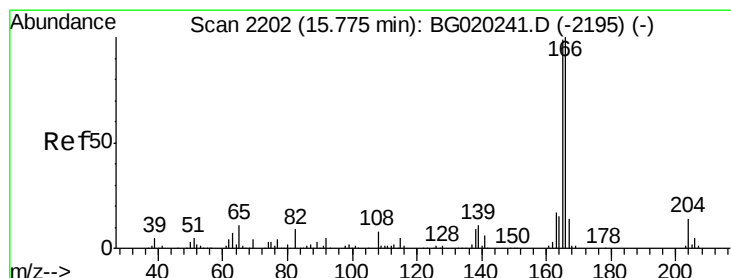
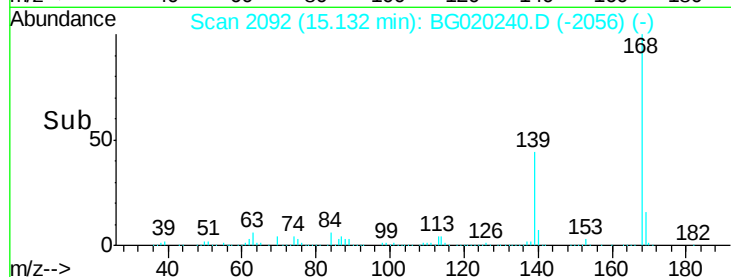
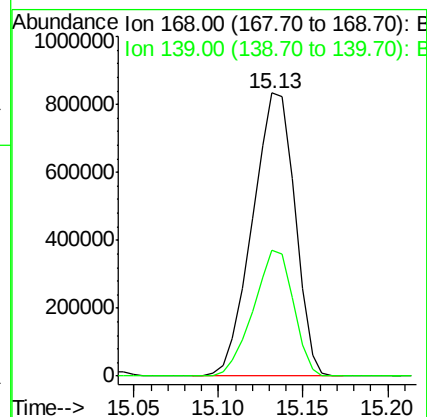
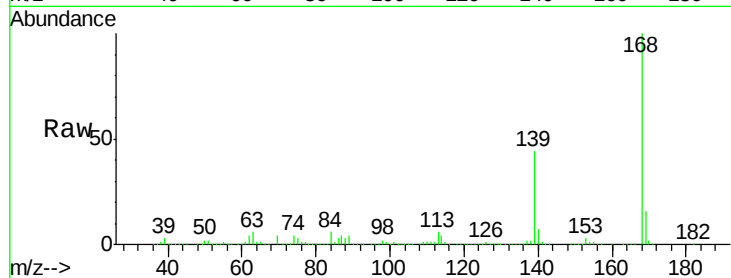
Ion Ratio Lower Upper

168 100

139 44.3 30.5 45.7

Manual Integrations
APPROVED

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12/17/2015 12:00:26 PM



#59

Fluorene

Concen: 202.39 ng/ul

RT: 15.78 min Scan# 2203

Delta R.T. 0.01 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

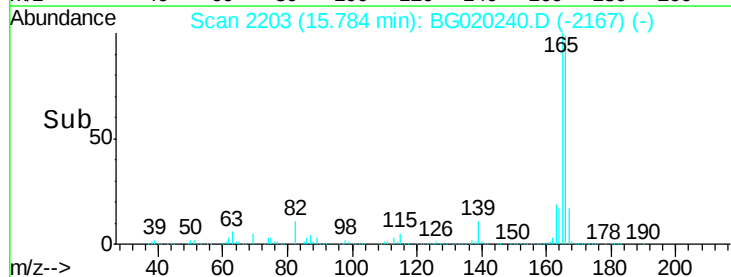
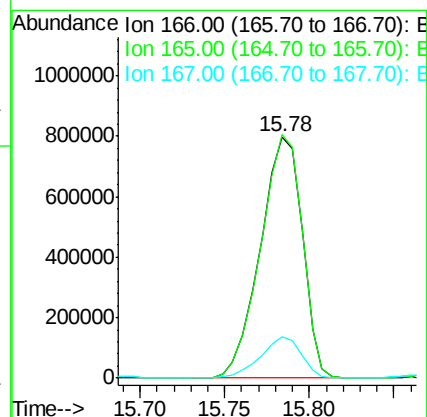
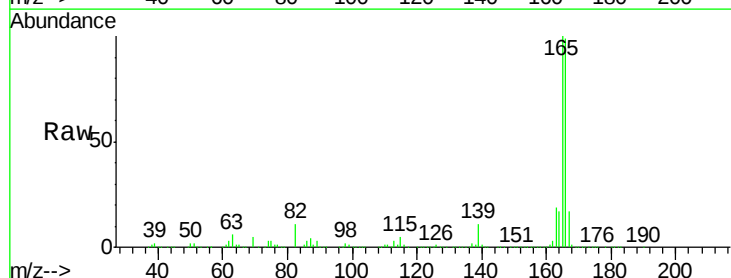
Tgt Ion:166 Resp: 1367182

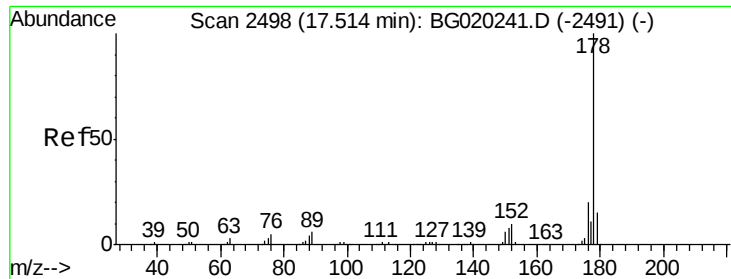
Ion Ratio Lower Upper

166 100

165 100.8 81.4 122.0

167 17.0 11.2 16.8#





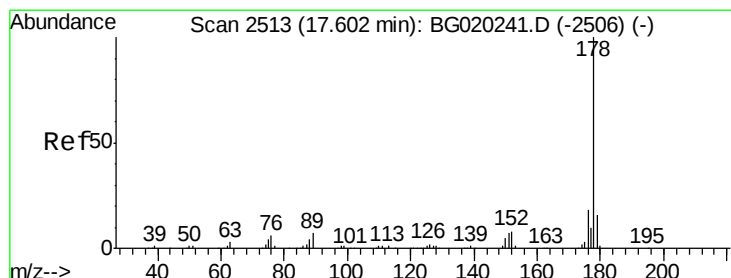
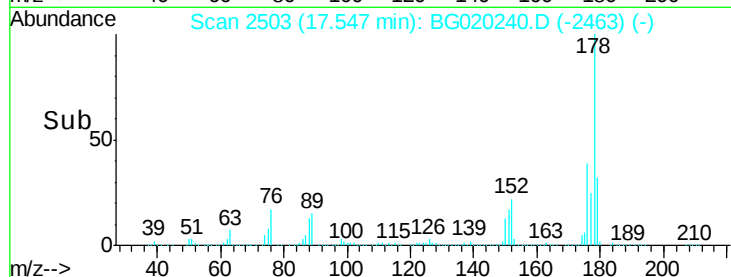
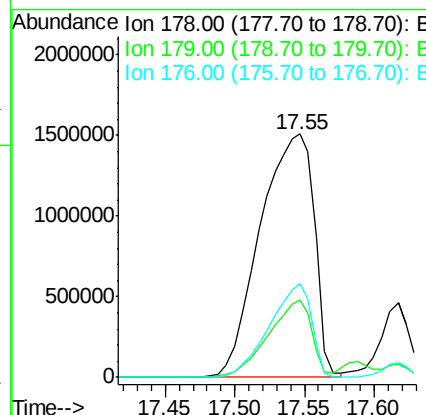
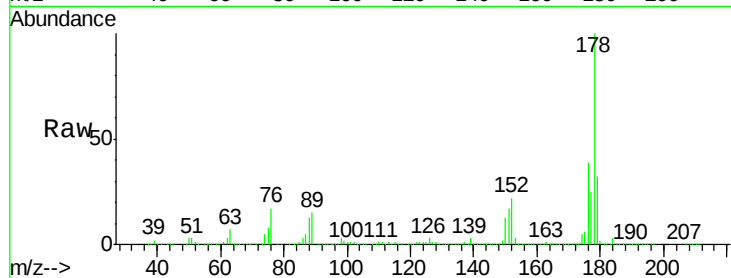
#70
Phenanthrene
Concen: 396.54 ng/ul m
RT: 17.55 min Scan# 2503
Delta R.T. 0.03 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Instrument :
BNA_G
ClientSampleId :
D9N42

Tgt Ion:178 Resp: 4063627
Ion Ratio Lower Upper
178 100
179 32.0 12.9 19.3#
176 38.7 15.3 22.9#

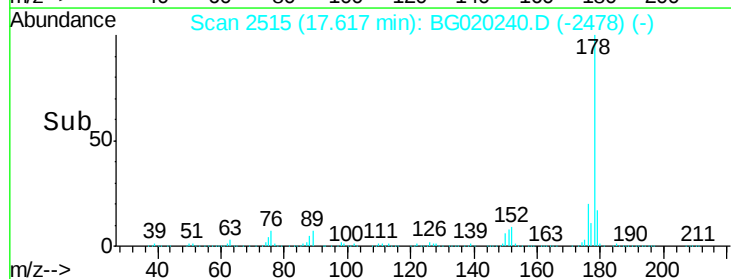
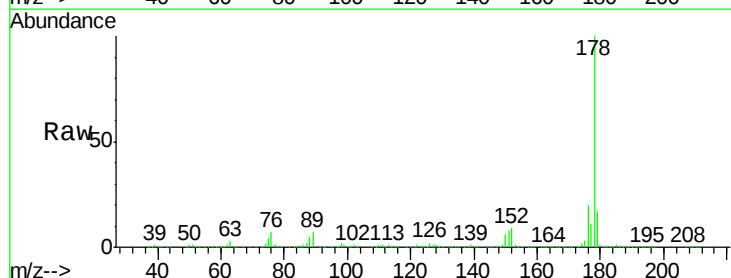
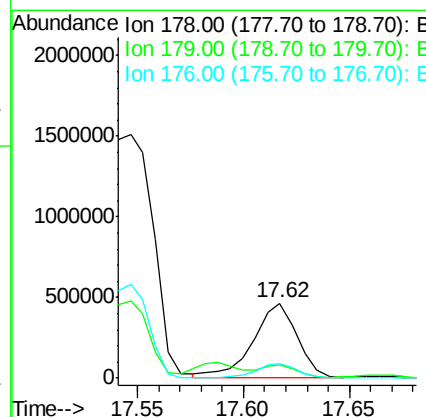
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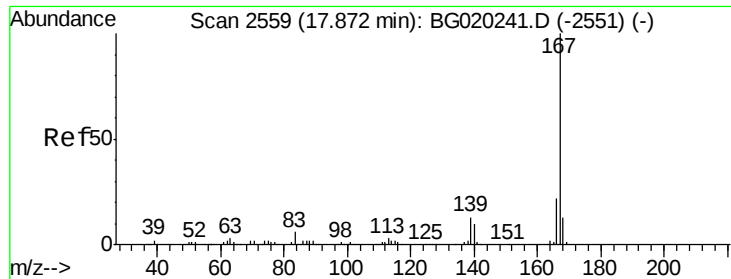
MMdadoda
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#72
Anthracene
Concen: 64.91 ng/ul
RT: 17.62 min Scan# 2515
Delta R.T. 0.01 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Tgt Ion:178 Resp: 674672
Ion Ratio Lower Upper
178 100
179 17.2 12.3 18.5
176 19.8 14.3 21.5





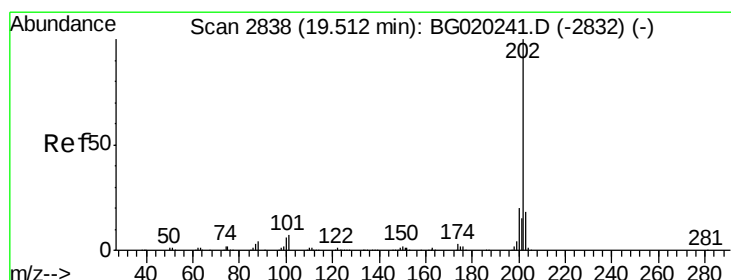
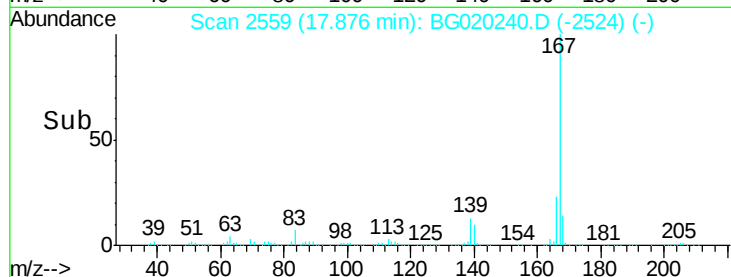
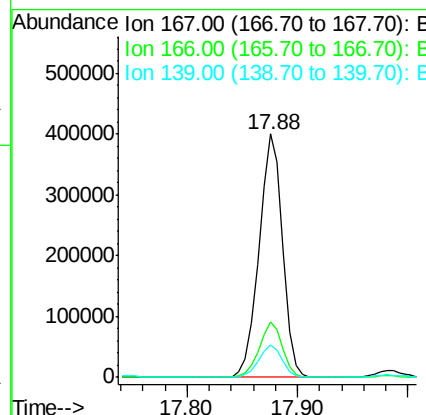
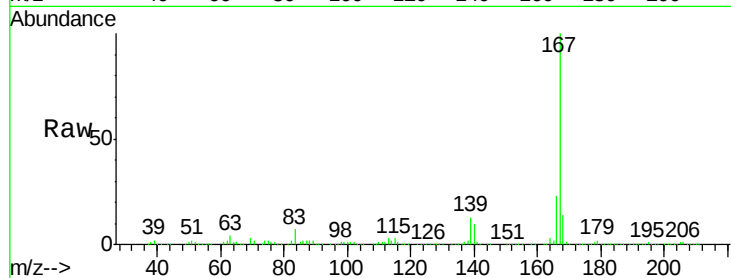
#75
 Carbazole
 Concen: 68.46 ng/ul
 RT: 17.88 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Instrument :
 BNA_G
 ClientSampleId :
 D9N42

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.7	17.0	25.6
139	13.3	10.1	15.1

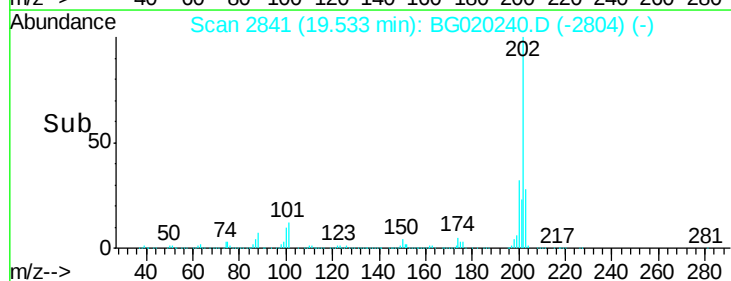
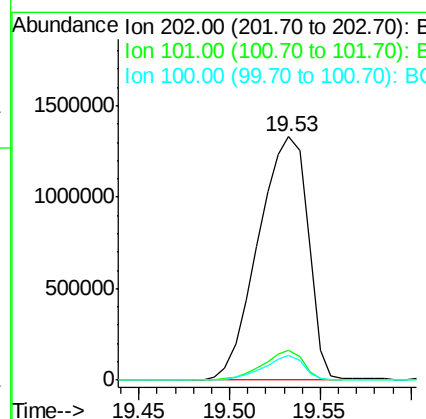
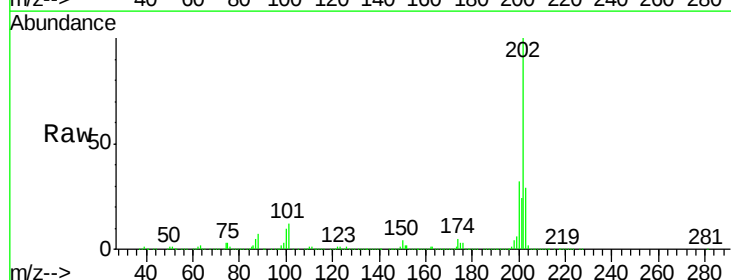
Manual Integrations
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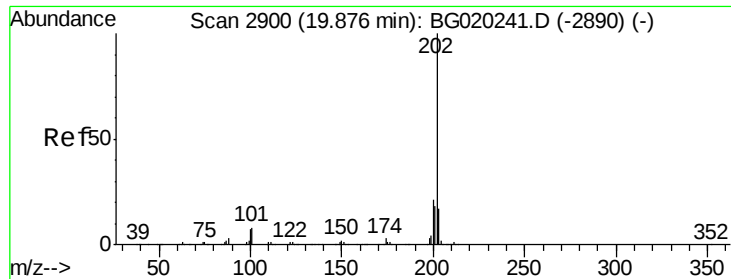
MMdadoda
 12/17/2015 12:00:26 PM



#77
 Fluoranthene
 Concen: 211.36 ng/ul
 RT: 19.53 min Scan# 2841
 Delta R.T. 0.01 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.5	6.2	9.4#
100	10.2	5.1	7.7#





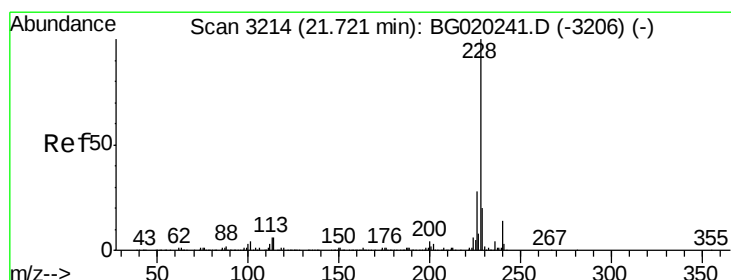
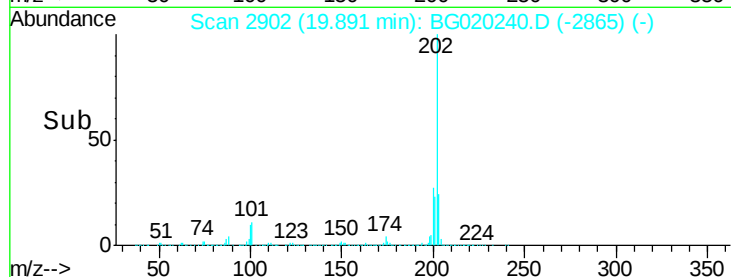
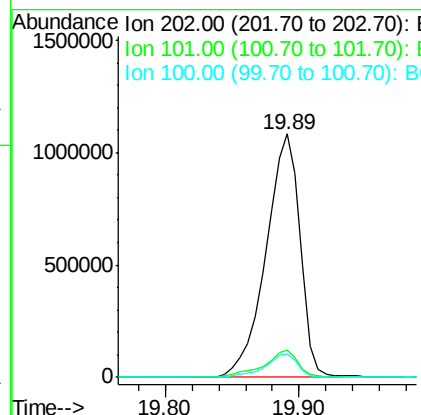
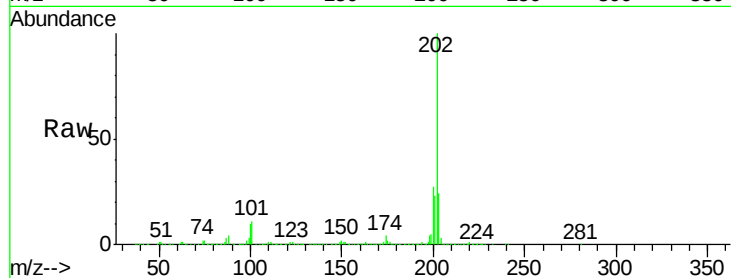
#80
 Pyrene
 Concen: 145.79 ng/ul
 RT: 19.89 min Scan# 2902
 Delta R.T. 0.01 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Instrument :
 BNA_G
 ClientSampleId :
 D9N42

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1915035		
101	11.1	7.0	10.4#	
100	9.7	6.4	9.6#	

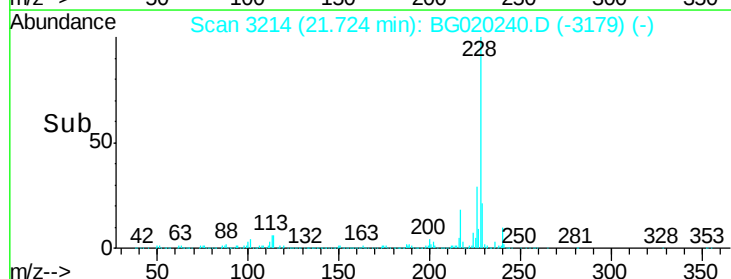
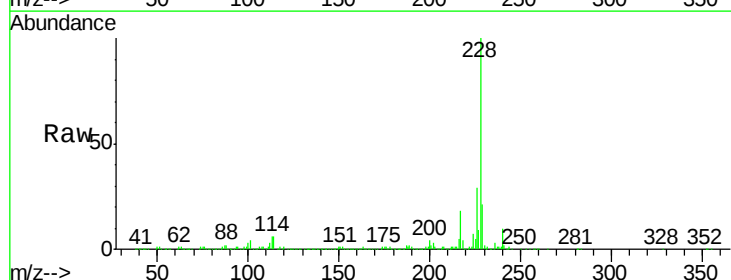
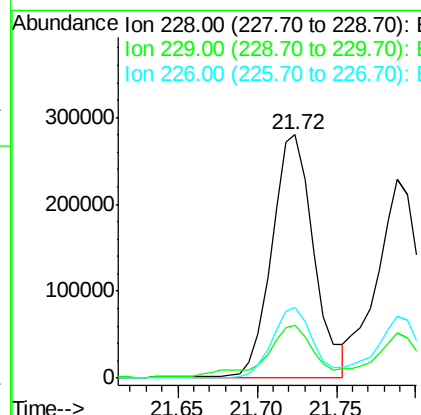
Manual Integrations
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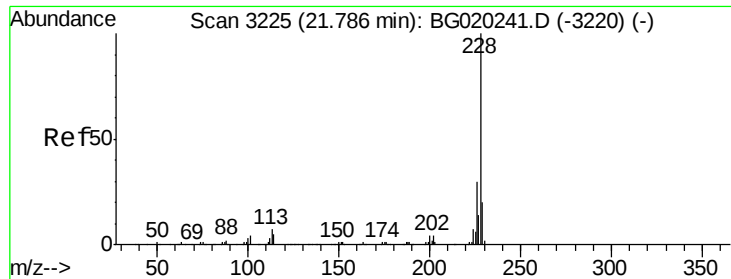
MMdadoda
 12/17/2015 12:00:26 PM



#83
 Benzo(a)anthracene
 Concen: 40.73 ng/ul
 RT: 21.72 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	515727		
229	21.5	15.8	23.8	
226	29.1	21.8	32.6	





#85

Chrysene

Concen: 34.65 ng/ul

RT: 21.79 min Scan# 3225

Delta R.T. -0.00 min

Lab File: BG020240.D

Acq: 17 Dec 2015 3:26

Instrument :

BNA_G

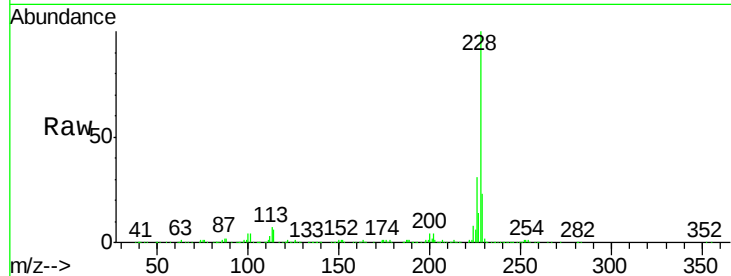
ClientSampleId :

D9N42

Tgt Ion:	228	Resp:	413310
Ion Ratio	Lower	Upper	
228	100		
226	31.1	23.9	35.9
229	22.8	15.6	23.4

Manual Integrations
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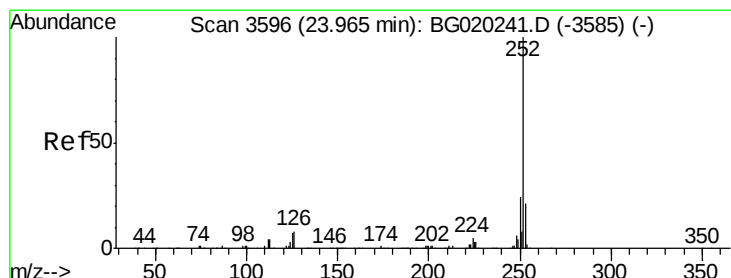
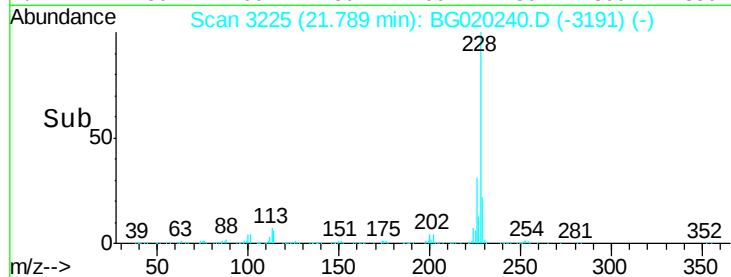
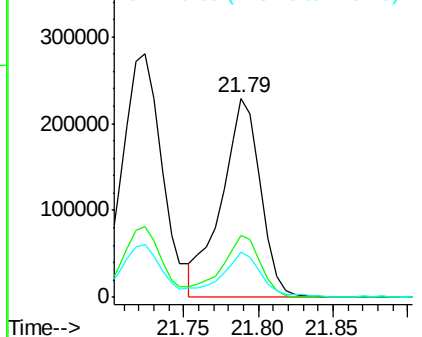
MMdadoda
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#88

Benzo(b)fluoranthene

Concen: 18.49 ng/ul

RT: 23.97 min Scan# 3596

Delta R.T. 0.00 min

Lab File: BG020240.D

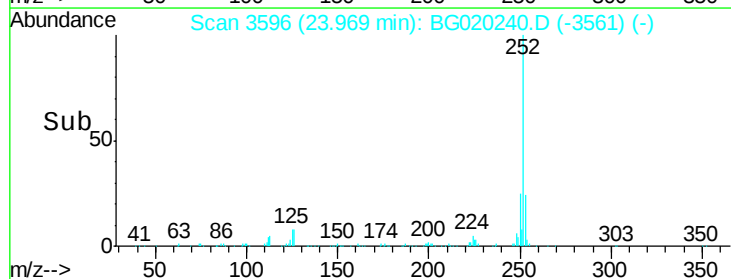
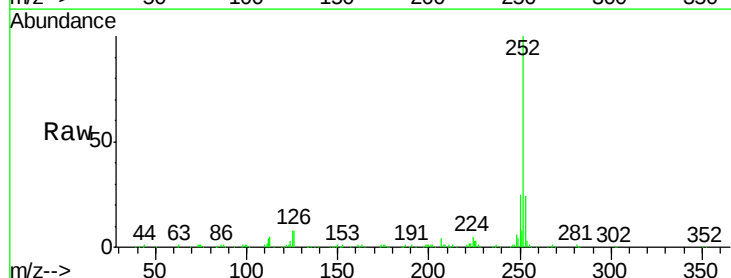
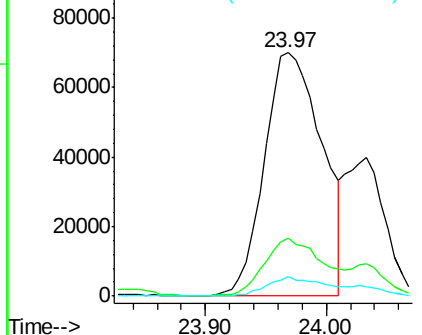
Acq: 17 Dec 2015 3:26

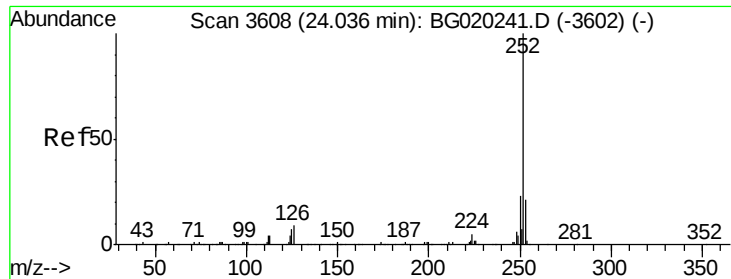
Tgt Ion:	252	Resp:	231548
Ion Ratio	Lower	Upper	
252	100		
253	23.9	16.7	25.1
125	8.3	6.2	9.2

Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





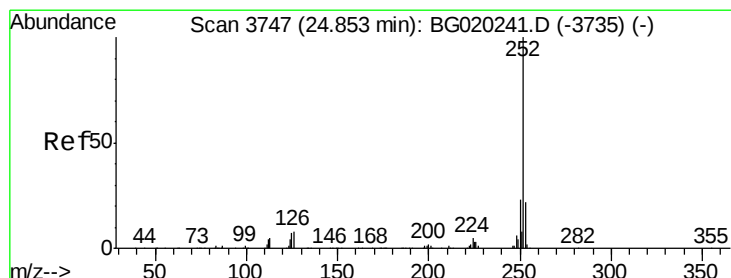
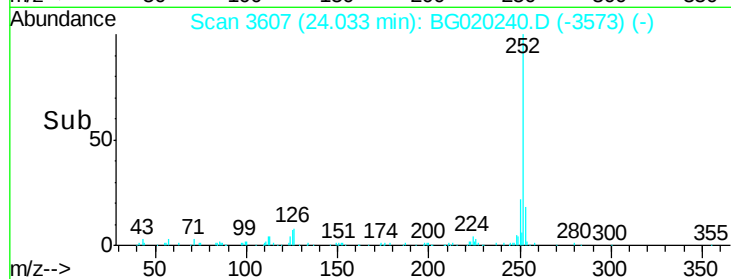
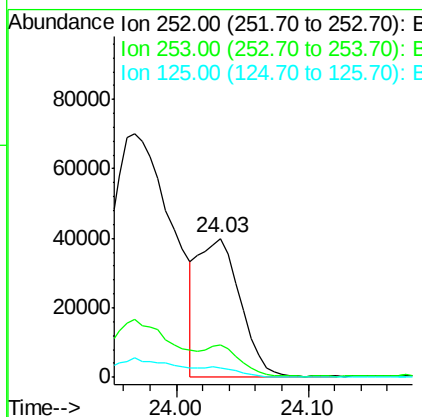
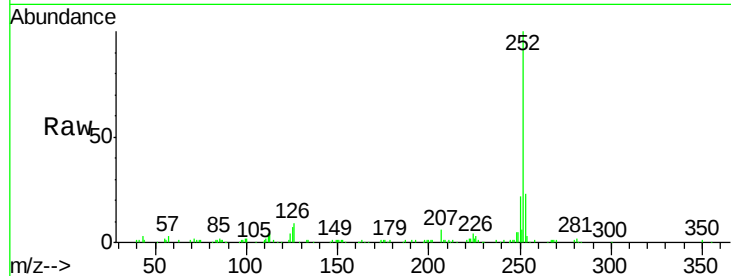
#89
Benzo(k)fluoranthene
Concen: 7.54 ng/ul m
RT: 24.03 min Scan# 3607
Delta R.T. -0.00 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Instrument :
BNA_G
ClientSampleId :
D9N42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	7.0	5.8	8.6

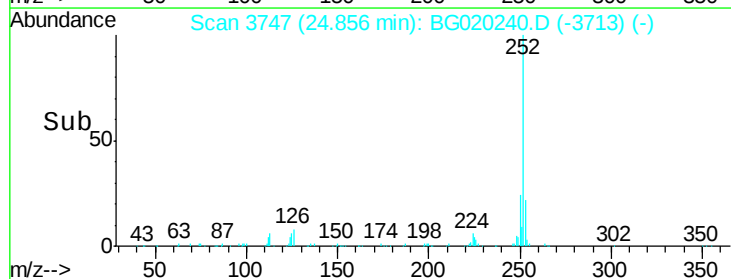
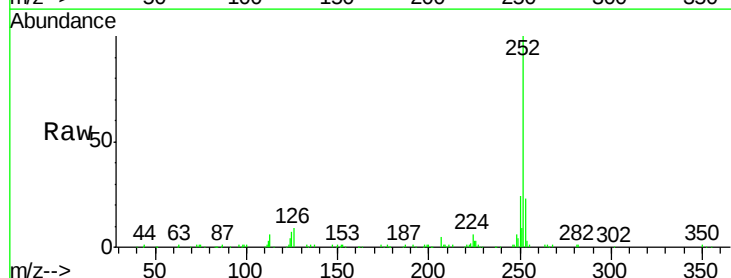
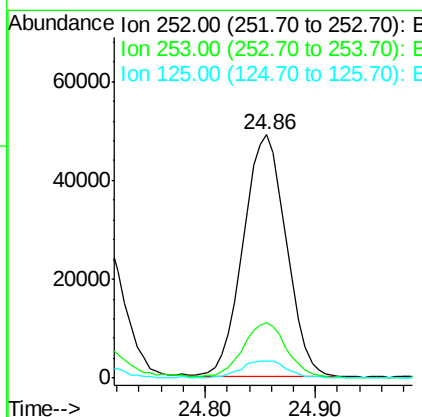
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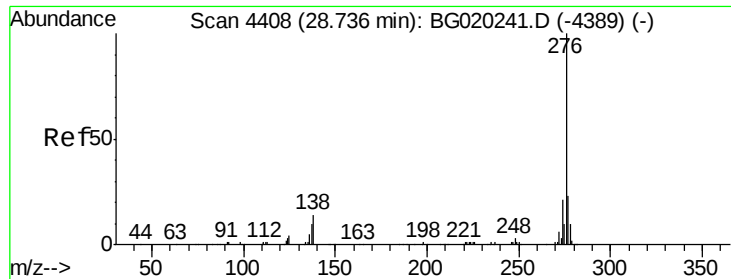
MMdadoda
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#91
Benzo(a)pyrene
Concen: 11.29 ng/ul
RT: 24.86 min Scan# 3747
Delta R.T. -0.00 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.4
125	6.8	6.2	9.4





#92

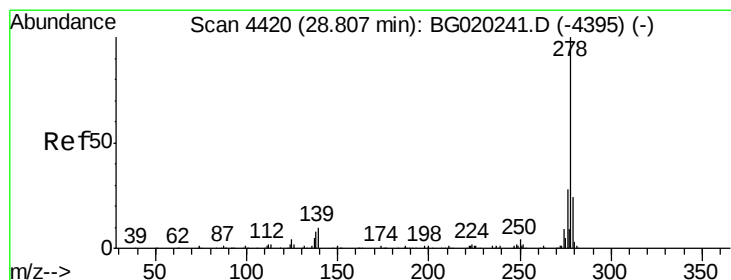
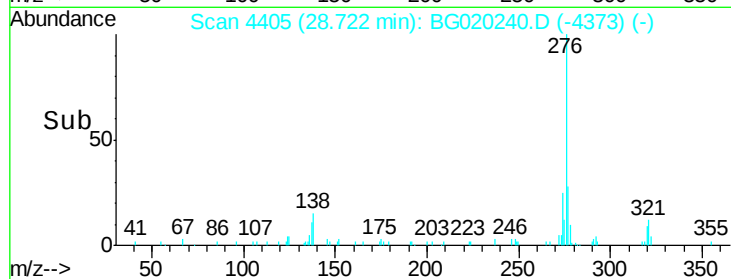
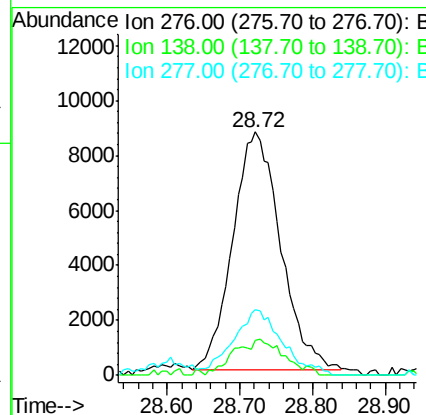
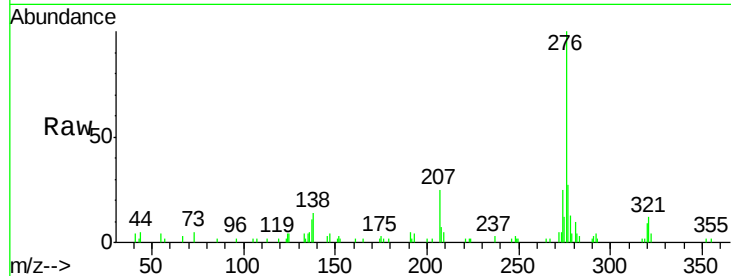
Indeno(1,2,3-cd)pyrene
Concen: 2.79 ng/ul m
RT: 28.72 min Scan# 4405
Delta R.T. -0.01 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Instrument :
BNA_G
ClientSampleId :
D9N42

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	14.4	11.4	17.0
277	27.2	17.4	26.0#

Manual Integrations
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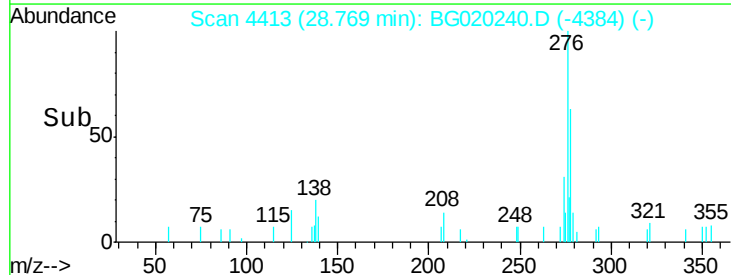
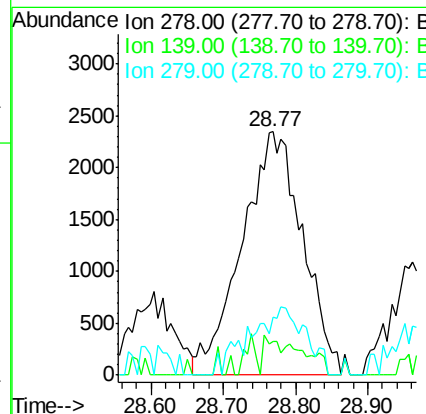
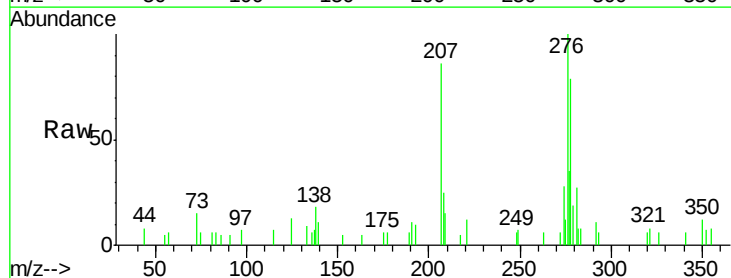
MMdadoda
12/17/2015 12:00:26 PM

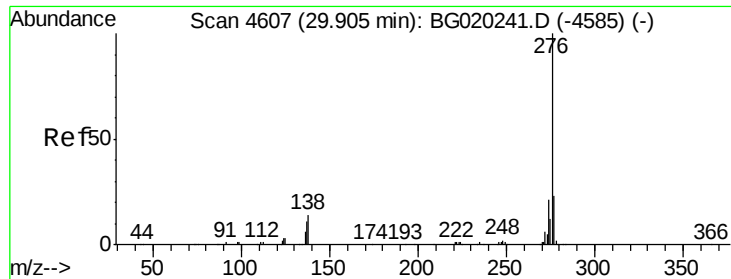


#93

Dibenzo(a,h)anthracene
Concen: 1.17 ng/ul m
RT: 28.77 min Scan# 4413
Delta R.T. -0.03 min
Lab File: BG020240.D
Acq: 17 Dec 2015 3:26

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	13.9	9.4	14.2
279	23.6	19.4	29.0





#94
 Benzo(g,h,i)perylene
 Concen: 2.87 ng/ul m
 RT: 29.88 min Scan# 4602
 Delta R.T. -0.03 min
 Lab File: BG020240.D
 Acq: 17 Dec 2015 3:26

Instrument :
 BNA_G
 ClientSampleId :
 D9N42

Tgt Ion	Ratio	Lower	Upper
276	100		
138	10.8	10.8	16.2#
277	23.5	19.9	29.9

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 12:00:26 PM

