

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122515\
 Data File : BG020543.D
 Acq On : 26 Dec 2015 16:48
 Operator : UM/SJ
 Sample : G4802-22MS
 Misc :
 ALS Vial : 80 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9D96MS

Manual Integrations
 APPROVED

Sohil
 12/28/2015 6:07:19 PM

Quant Time: Dec 28 07:28:39 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG122415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 28 06:13:05 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.07	152	21264	20.00	ng/ul	0.00
18) Naphthalene-d8	10.89	136	90283	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.71	164	66214	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.46	188	155965	20.00	ng/ul	0.01
78) Chrysene-d12	21.73	240	194672	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	187791	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.44	96	1761	4.57	ng/uL	0.00
5) Phenol-d5	7.23	99	45049	26.40	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.40	67	29315	29.00	ng/ul	0.00
9) 2-Chlorophenol-d4	7.60	132	37124	28.36	ng/ul	0.00
13) 4-Methylphenol-d8	8.78	113	39865	27.77	ng/ul	0.00
19) Nitrobenzene-d5	9.24	128	21308	30.11	ng/ul	0.00
22) 2-Nitrophenol-d4	9.97	143	22214	27.61	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.51	165	42111	27.04	ng/ul	0.00
29) 4-Chloroaniline-d4	11.03	131	41562	23.36	ng/ul	0.00
44) Dimethylphthalate-d6	14.11	166	149382	27.37	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	180273	28.51	ng/ul	0.00
52) 4-Nitrophenol-d4	14.92	143	17159	18.86	ng/ul	0.00
58) Fluorene-d10	15.71	176	139556	28.28	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	8144	7.88	ng/ul	0.02
71) Anthracene-d10	17.56	188	213368	29.21	ng/ul	0.01
79) Pyrene-d10	19.84	212	252511	29.96	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.79	264	284995	30.02	ng/ul	0.03

Target Compounds

					Ovalue
6) Phenol	7.26	94	48473	27.28	ng/ul 97
10) 2-Chlorophenol	7.64	128	37008	27.08	ng/ul 96
15) N-Nitroso-di-n-propylamine	8.88	70	32141	27.64	ng/ul 95
28) Naphthalene	10.95	128	172236	35.89	ng/ul 97
33) 4-Chloro-3-methylphenol	12.17	107	49157	29.37	ng/ul 90
41) 1,1'-Biphenyl	13.54	154	166580	32.60	ng/ul 95
45) Dimethylphthalate	14.16	163	51855	9.35	ng/ul 99
48) Acenaphthylene	14.44	152	162094	24.39	ng/ul# 92
50) Acenaphthene	14.78	153	482993	107.49	ng/ul 98
53) 4-Nitrophenol	14.93	109	15324	18.62	ng/ul# 88
54) Dibenzofuran	15.11	168	60171	9.00	ng/ul 89
55) 2,4-Dinitrotoluene	15.08	165	52119	30.90	ng/ul# 96
59) Fluorene	15.76	166	380215	70.18	ng/ul 99
69) Pentachlorophenol	17.12	266	16635	14.17	ng/ul 96
70) Phenanthrene	17.52	178	1752464m	201.94	ng/ul
72) Anthracene	17.60	178	464304	52.32	ng/ul 98
75) Carbazole	17.86	167	21310	2.85	ng/ul# 90
77) Fluoranthene	19.51	202	686748	62.93	ng/ul 99
80) Pyrene	19.88	202	1225749	111.34	ng/ul 97
83) Benzo(a)anthracene	21.72	228	388243m	33.96	ng/ul
85) Chrysene	21.78	228	325518	29.89	ng/ul 96
88) Benzo(b)fluoranthene	23.97	252	235218	20.87	ng/ul 97
89) Benzo(k)fluoranthene	24.03	252	76685m	7.04	ng/ul

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Quant Title : SVOA CALIBRATION
QLast Update : Mon Dec 28 06:13:05 2015
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(a)pyrene	24.86	252	296391	27.36	ng/ul	99
92) Indeno(1,2,3-cd)pyrene	28.74	276	118172	9.11	ng/ul	95
93) Dibenzo(a,h)anthracene	28.77	278	31795	2.95	ng/ul	97
94) Benzo(g,h,i)perylene	29.91	276	122910	11.53	ng/ul	97

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

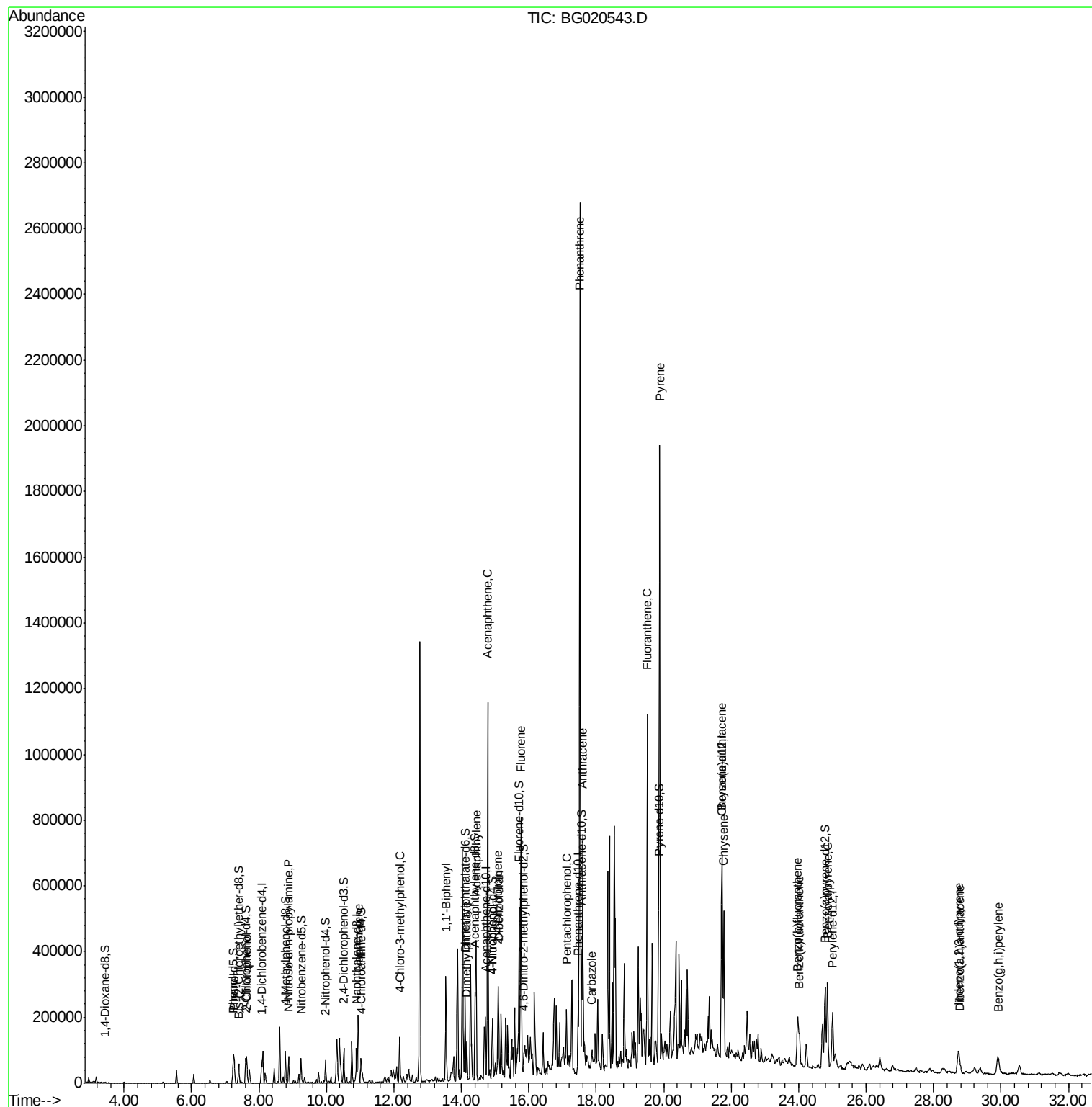
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122515\
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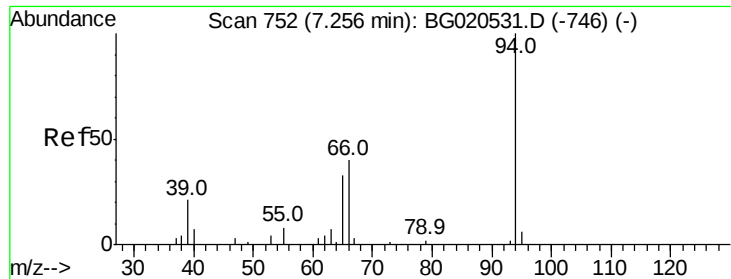
Instrument :
BNA_G
ClientSampleId :
G9D96MS

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#6

Phenol

Concen: 27.28 ng/ul

RT: 7.26 min Scan# 753

Delta R.T. 0.01 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

Instrument :

BNA_G

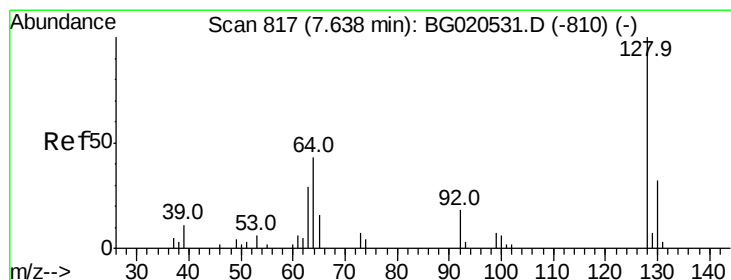
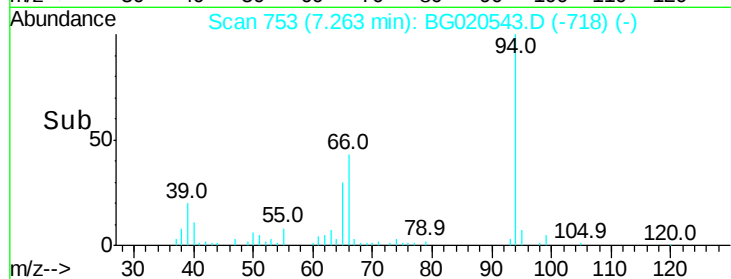
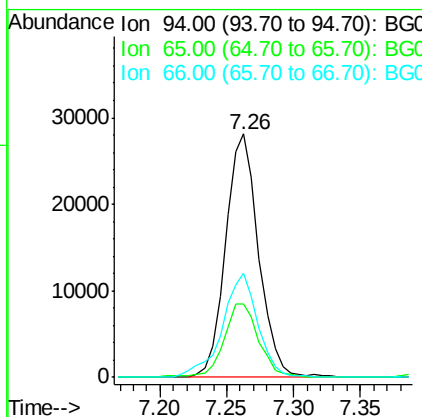
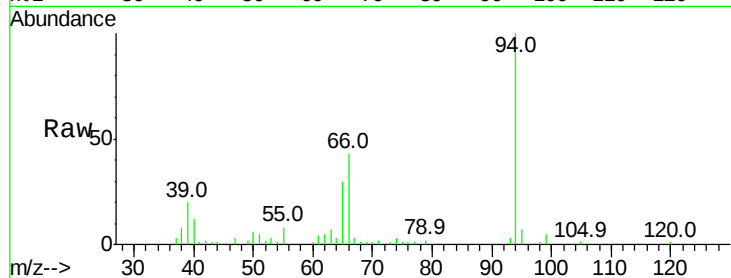
ClientSampleId :

G9D96MS

Tot Ion:	94	Resp:	48473
Ion Ratio	Lower	Upper	
94	100		
65	30.3	26.3	39.5
66	43.0	33.3	49.9

Manual Integrations
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#10

2-Chlorophenol

Concen: 27.08 ng/ul

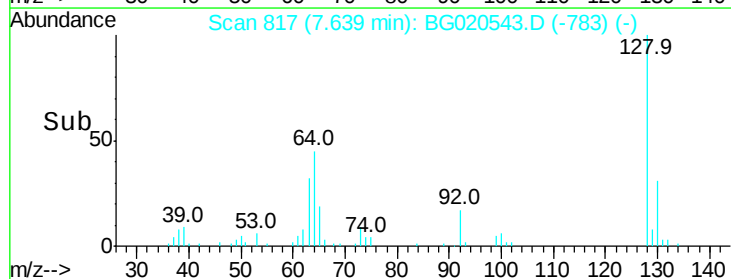
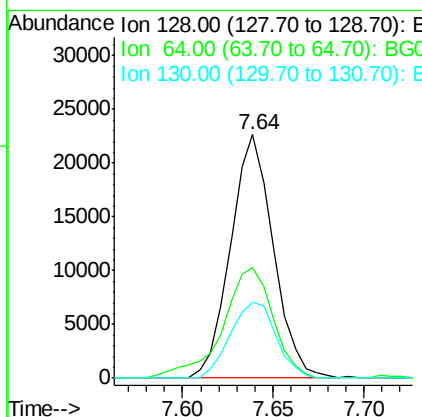
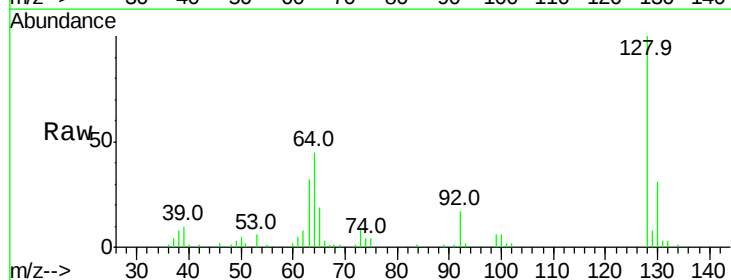
RT: 7.64 min Scan# 817

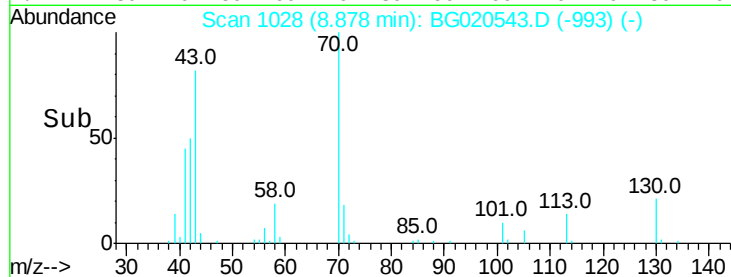
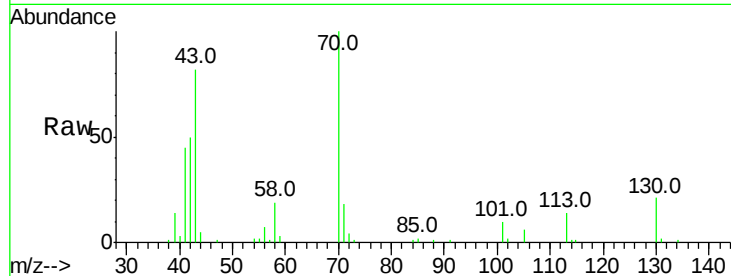
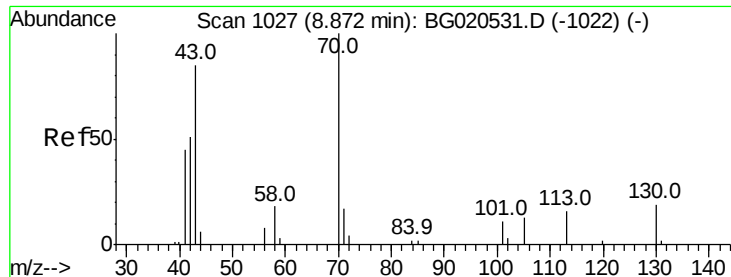
Delta R.T. 0.00 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

Tgt Ion:	128	Resp:	37008
Ion Ratio	Lower	Upper	
128	100		
64	45.5	39.4	59.0
130	31.3	24.6	36.8





#15

N-Nitroso-di-n-propylamine

Concen: 27.64 ng/ul

RT: 8.88 min Scan# 1028

Delta R.T. 0.01 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

Instrument :

BNA_G

ClientSampleId :

G9D96MS

Tot Ion: 70 Resp: 32141

Ion Ratio Lower Upper

70 100

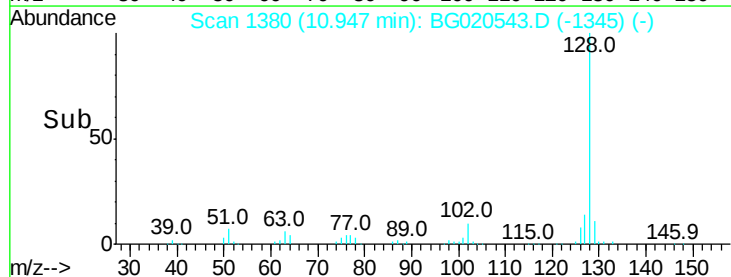
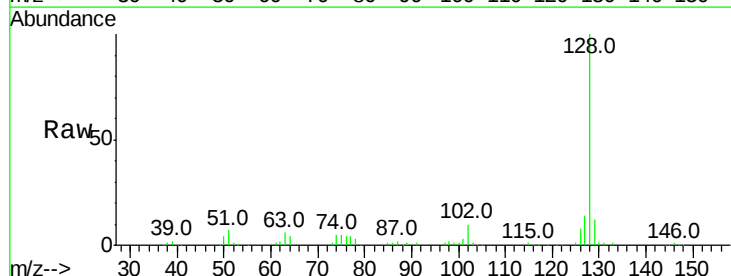
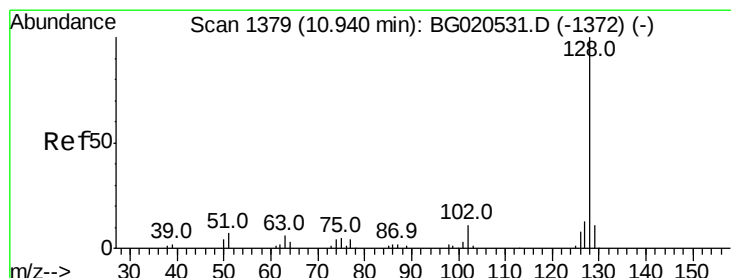
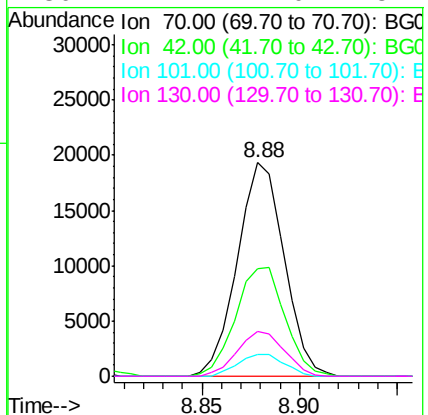
42 50.3 44.3 66.5

101 10.0 7.6 11.4

130 21.1 17.0 25.4

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#28

Naphthalene

Concen: 35.89 ng/ul

RT: 10.95 min Scan# 1380

Delta R.T. 0.01 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

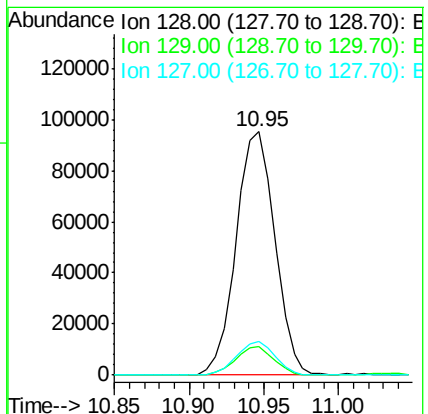
Tgt Ion: 128 Resp: 172236

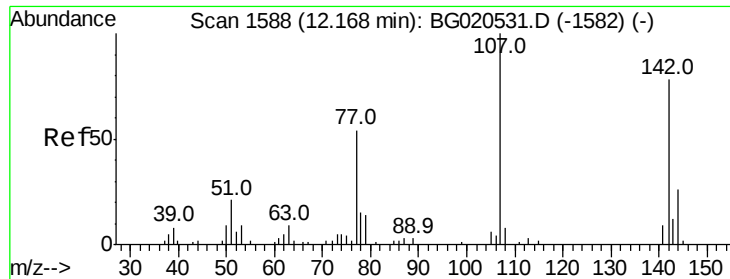
Ion Ratio Lower Upper

128 100

129 11.5 8.6 12.8

127 13.8 10.1 15.1





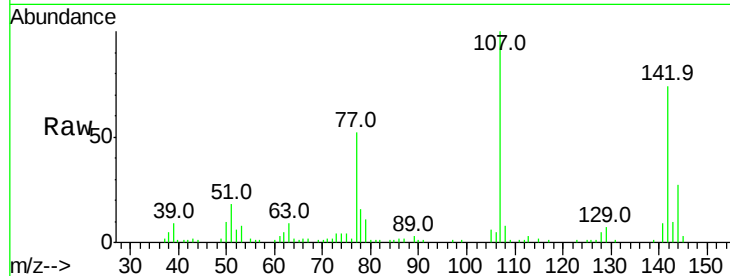
#33
 4-Chloro-3-methylphenol
 Concen: 29.37 ng/ul
 RT: 12.17 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: BG020543.D
 Acq: 26 Dec 2015 16:48

Instrument :
 BNA_G
 ClientSampled :
 G9D96MS

Tot Ion	Ratio	Lower	Upper
107	100		
144	26.8	18.7	28.1
142	74.3	52.8	79.2

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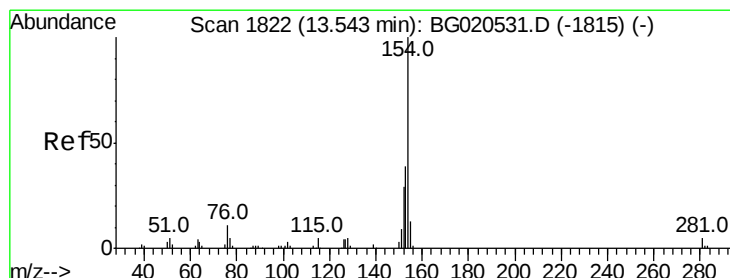
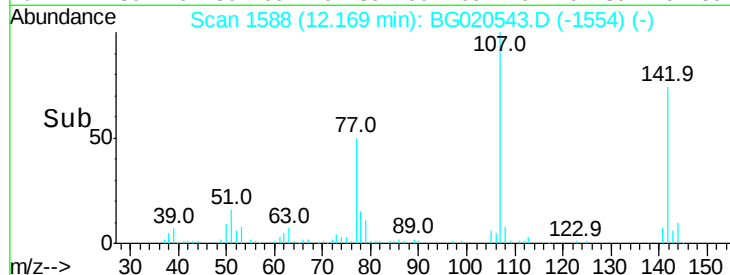
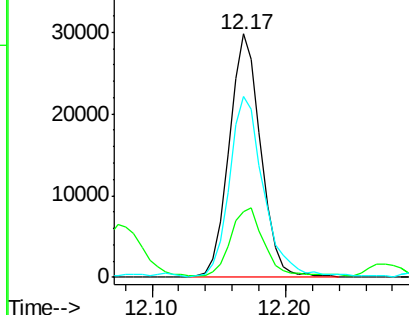


Abundance

Ion 107.00 (106.70 to 107.70): E

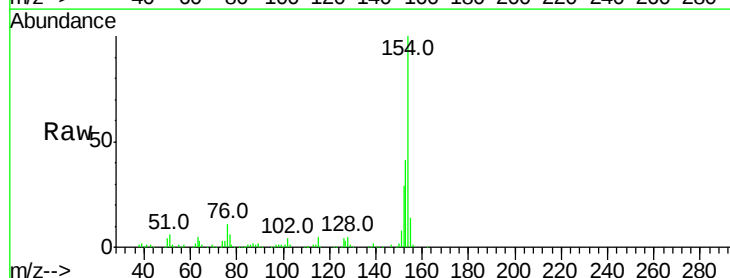
Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E



#41
 1,1'-Biphenyl
 Concen: 32.60 ng/ul
 RT: 13.54 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: BG020543.D
 Acq: 26 Dec 2015 16:48

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.4	35.5	53.3
76	11.4	10.4	15.6

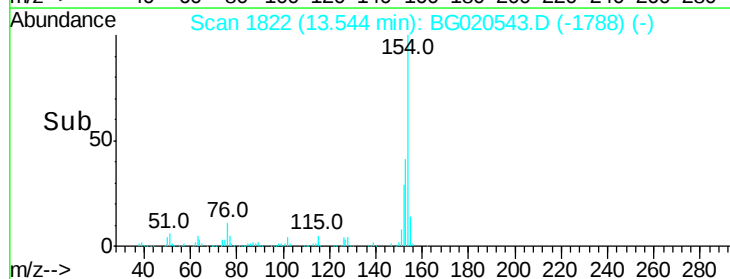
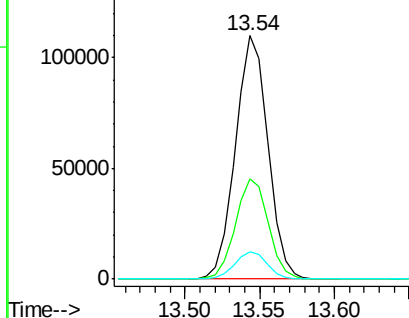


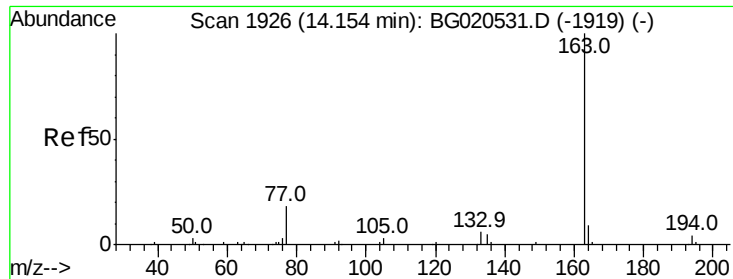
Abundance

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





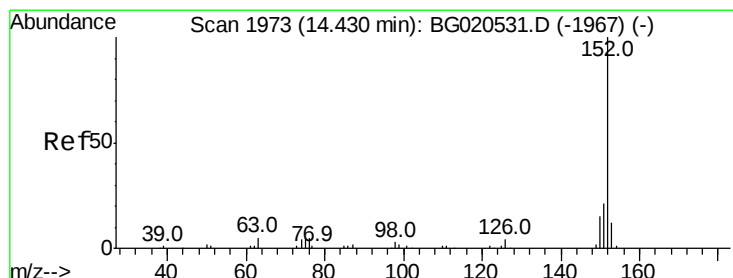
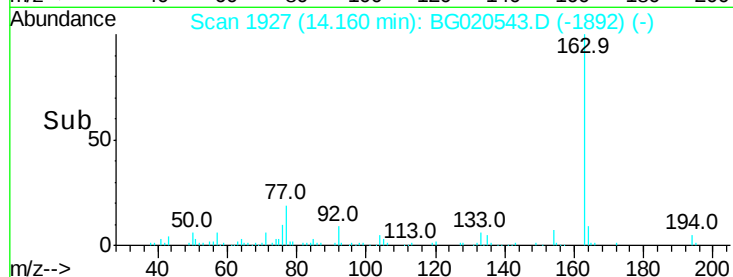
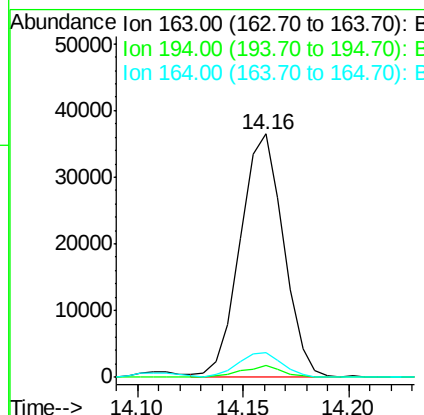
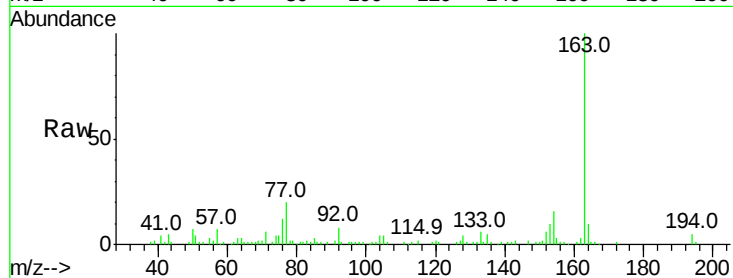
#45
Dimethylphthalate
Concen: 9.35 ng/ul
RT: 14.16 min Scan# 1927
Delta R.T. 0.01 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Instrument :
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G9D96MS

Tot Ion:	163	Resp:	51855
Ion Ratio	Lower	Upper	
163	100		
194	4.9	3.5	5.3
164	9.9	7.7	11.5

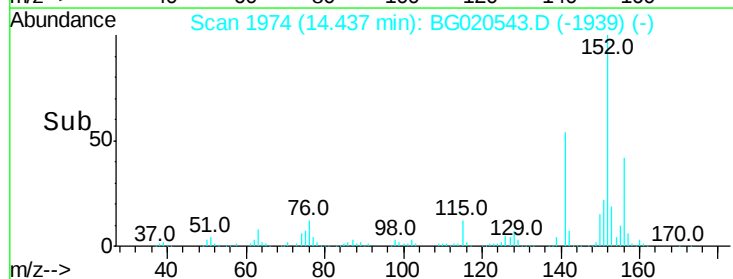
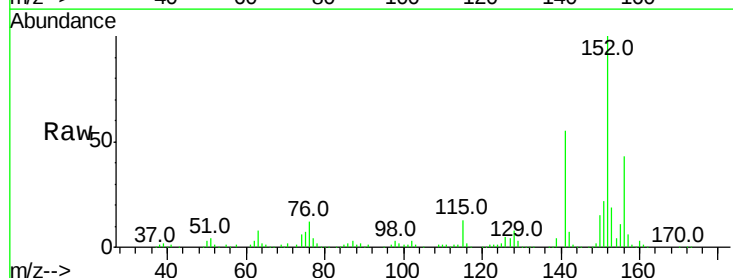
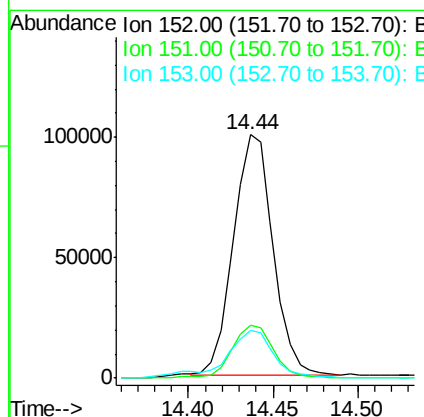
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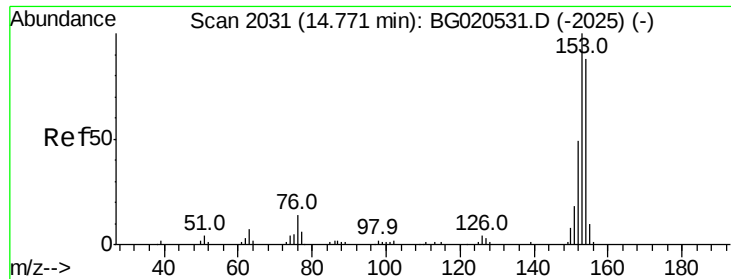
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#48
Acenaphthylene
Concen: 24.39 ng/ul
RT: 14.44 min Scan# 1974
Delta R.T. 0.01 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Tgt Ion:	152	Resp:	162094
Ion Ratio	Lower	Upper	
152	100		
151	21.9	16.4	24.6
153	19.5	10.4	15.6#





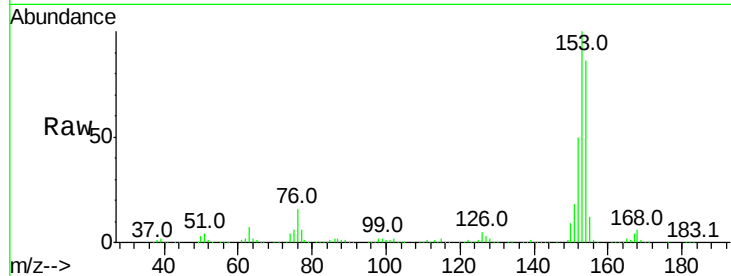
#50
Acenaphthene
Concen: 107.49 ng/ul
RT: 14.78 min Scan# 2033
Delta R.T. 0.01 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Instrument :
BNA_G
ClientSampleId :
G9D96MS

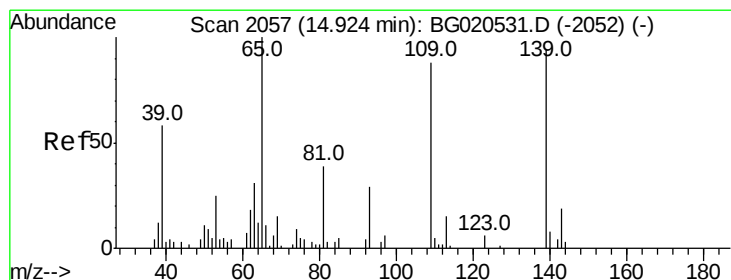
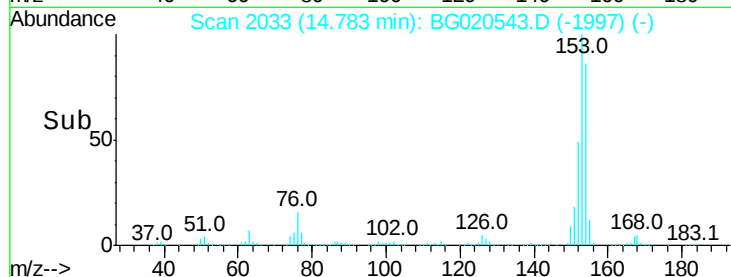
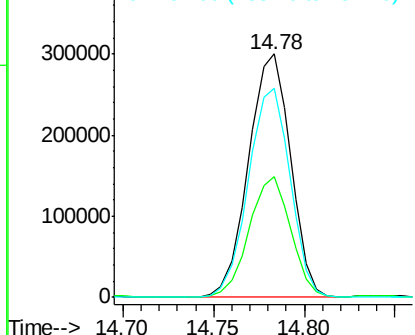
Tot Ion	Ratio	Resp	Lower	Upper
153	100	482993		
152	49.6		37.6	56.4
154	86.1		67.9	101.9

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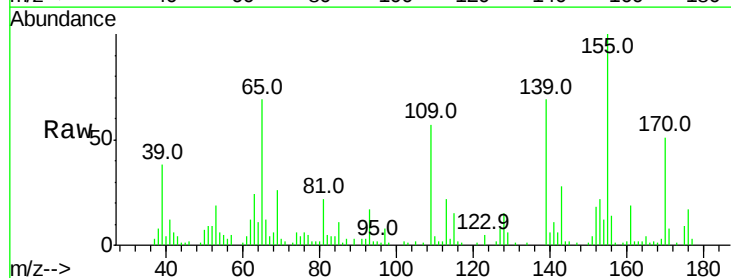


Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E

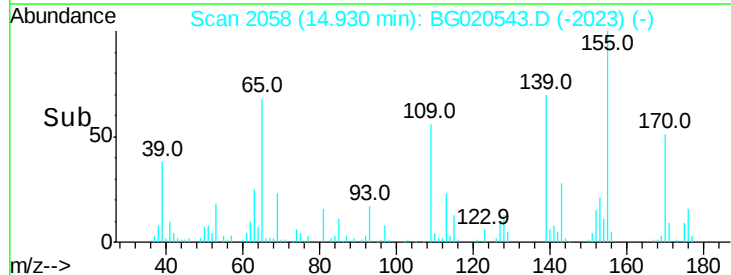
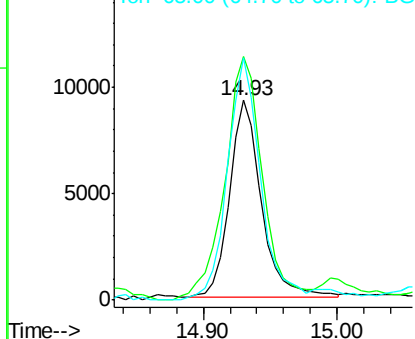


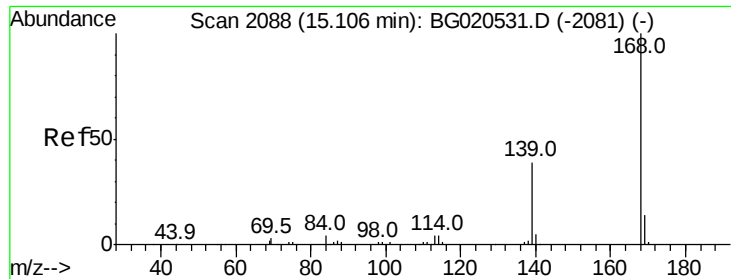
#53
4-Nitrophenol
Concen: 18.62 ng/ul
RT: 14.93 min Scan# 2058
Delta R.T. 0.01 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
109	100	15324		
139	121.8		80.5	120.7#
65	121.6		93.4	140.2



Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BG





#54

Dibenzofuran

Concen: 9.00 ng/ul

RT: 15.11 min Scan# 2088

Delta R.T. 0.00 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

Instrument :

BNA_G

ClientSampleId :

G9D96MS

Tot Ion:168 Resp: 60171

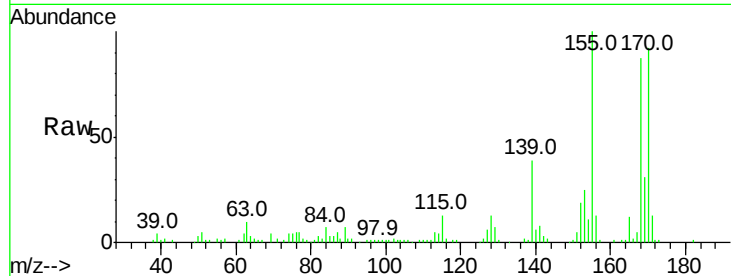
Ion Ratio Lower Upper

168 100

139 44.8 30.5 45.7

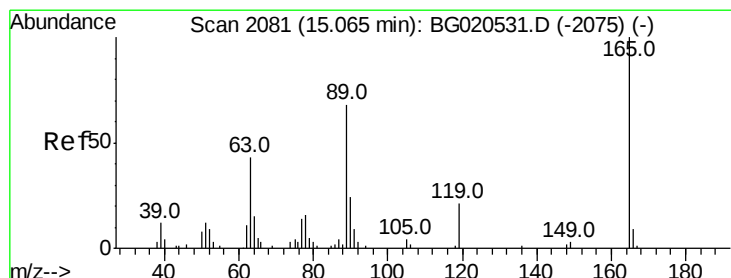
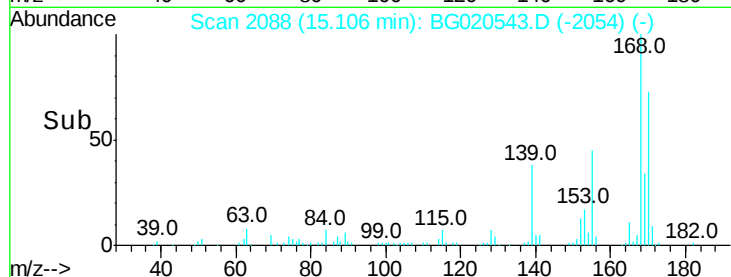
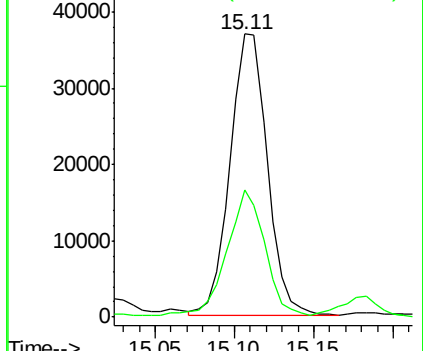
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#55

2,4-Dinitrotoluene

Concen: 30.90 ng/ul

RT: 15.08 min Scan# 2084

Delta R.T. 0.02 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

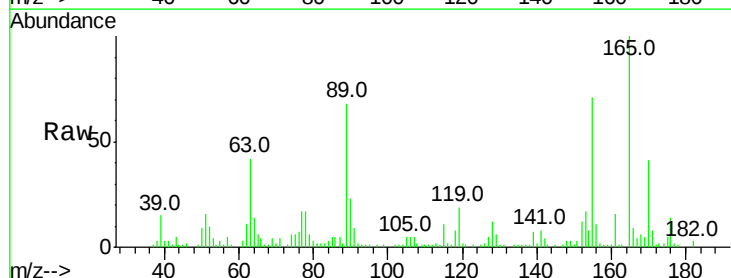
Tgt Ion:165 Resp: 52119

Ion Ratio Lower Upper

165 100

63 42.0 35.8 53.8

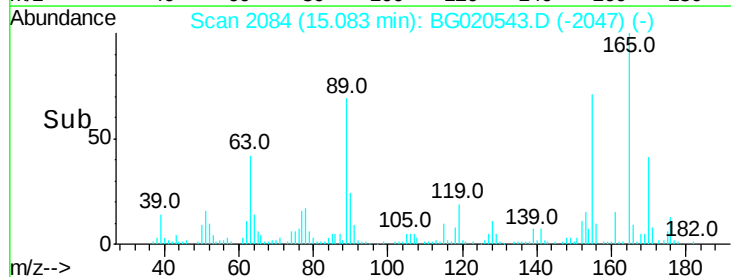
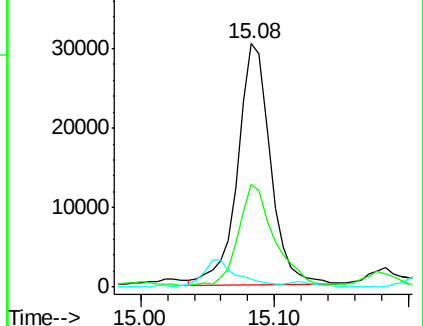
182 3.3 2.2 3.2#

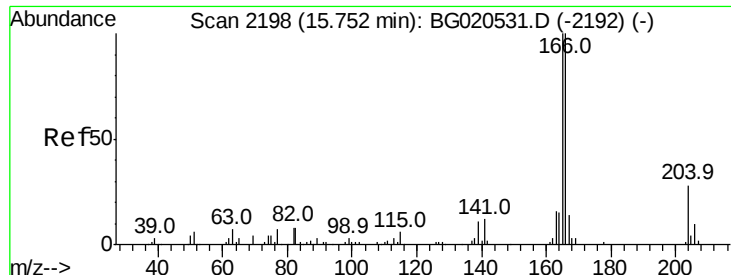


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 182.00 (181.70 to 182.70): E





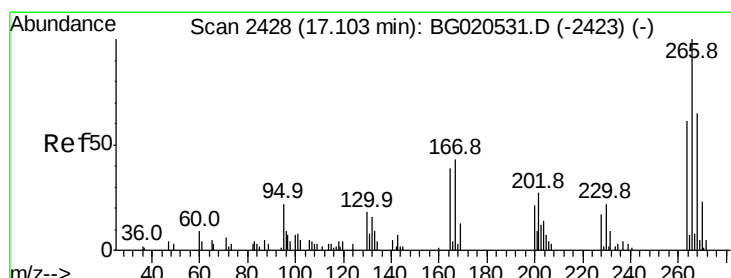
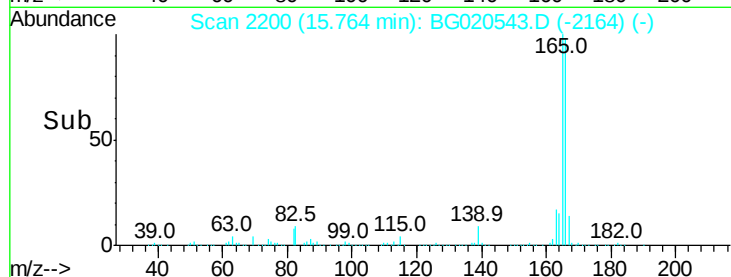
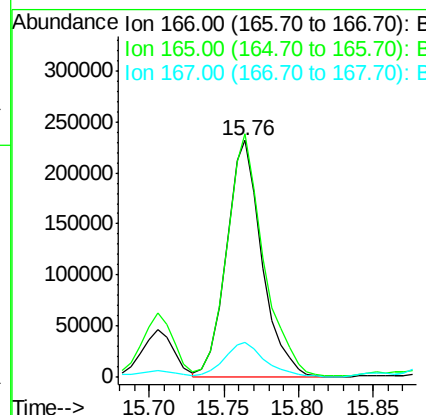
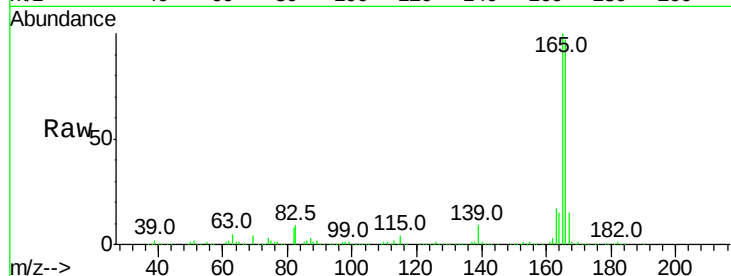
#59
 Fluorene
 Concen: 70.18 ng/ul
 RT: 15.76 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: BG020543.D
 Acq: 26 Dec 2015 16:48

Instrument :
 BNA_G
 ClientSampleId :
 G9D96MS

Tot Ion	Ratio	Resp	Lower	Upper
166	100	380215		
165	102.9	81.4	122.0	
167	15.0	11.2	16.8	

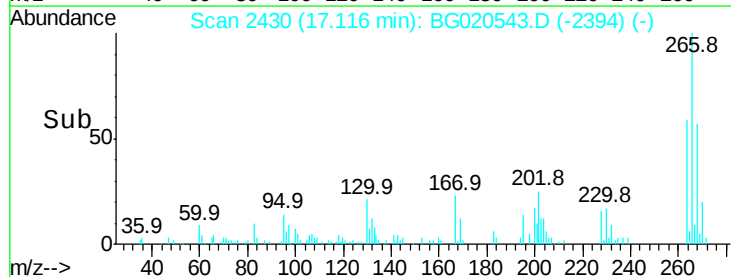
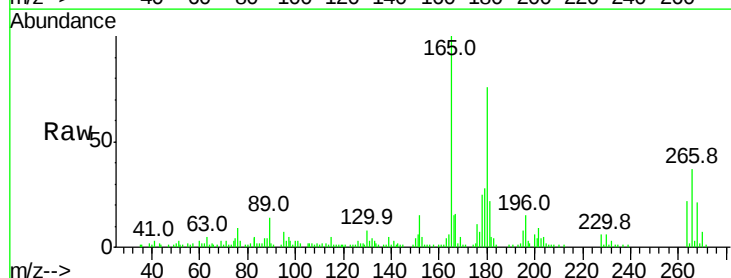
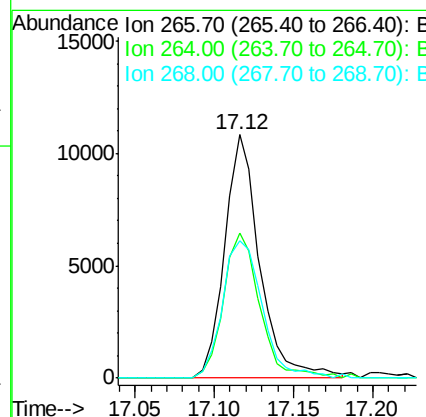
Manual Integrations
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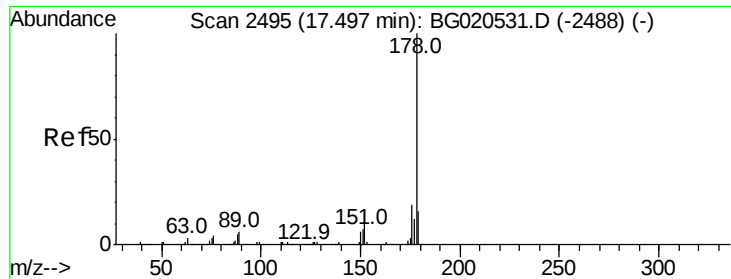
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#69
 Pentachlorophenol
 Concen: 14.17 ng/ul
 RT: 17.12 min Scan# 2430
 Delta R.T. 0.01 min
 Lab File: BG020543.D
 Acq: 26 Dec 2015 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	16635		
264	59.5	52.2	78.2	
268	61.5	49.3	73.9	





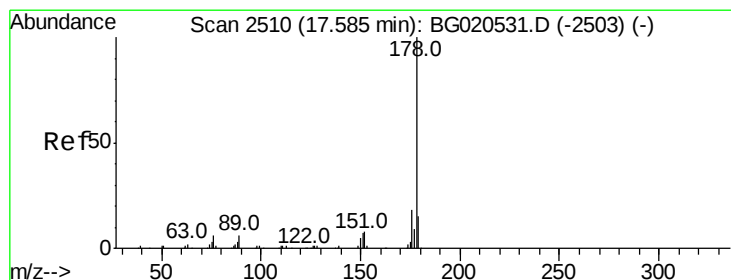
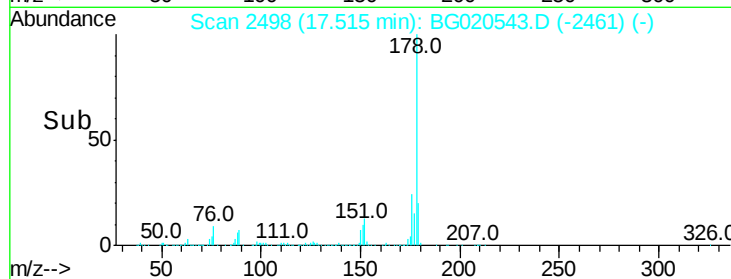
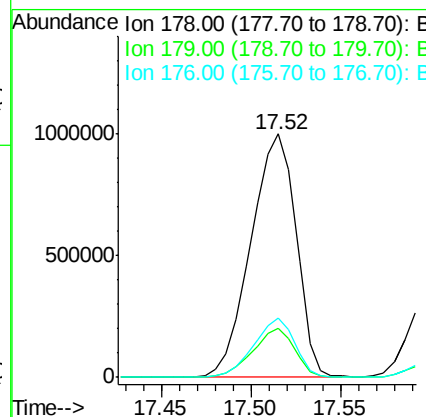
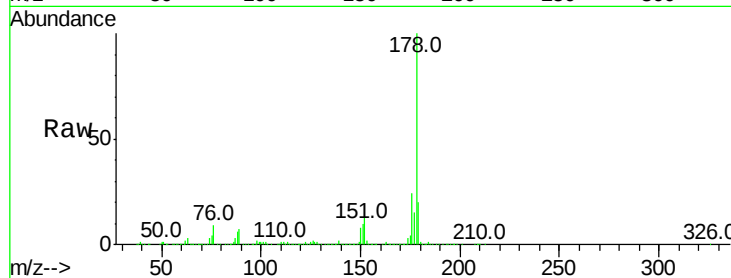
#70
Phenanthrene
Concen: 201.94 ng/ul m
RT: 17.52 min Scan# 2498
Delta R.T. 0.02 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Instrument :
BNA_G
ClientSampleId :
G9D96MS

Tot Ion	Ratio	Lower	Upper
178	100		
179	20.0	12.9	19.3#
176	24.2	15.3	22.9#

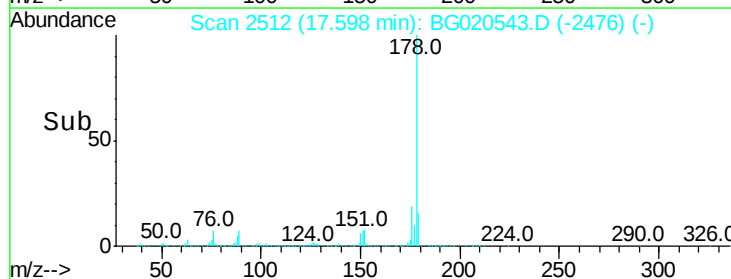
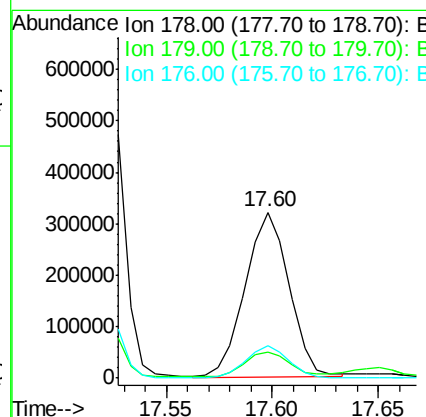
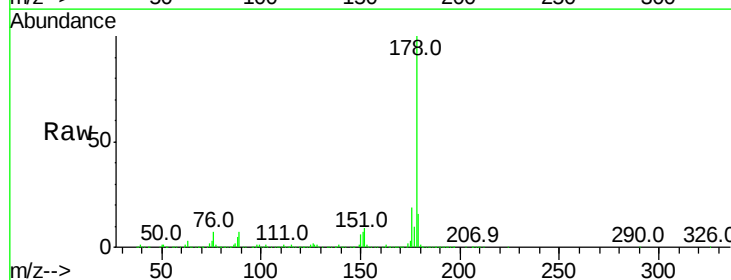
Manual Integrations
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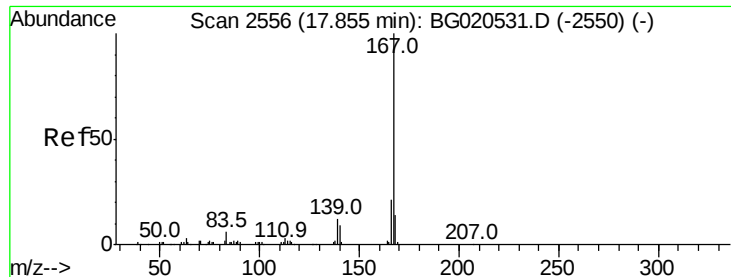
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#72
Anthracene
Concen: 52.32 ng/ul
RT: 17.60 min Scan# 2512
Delta R.T. 0.01 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.3	18.5
176	19.3	14.3	21.5





#75

Carbazole

Concen: 2.85 ng/ul

RT: 17.86 min Scan# 2557

Delta R.T. 0.01 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

Instrument :

BNA_G

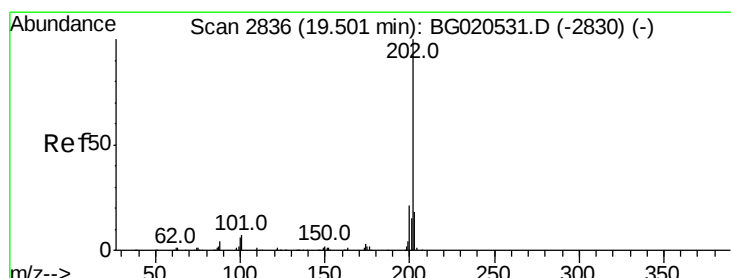
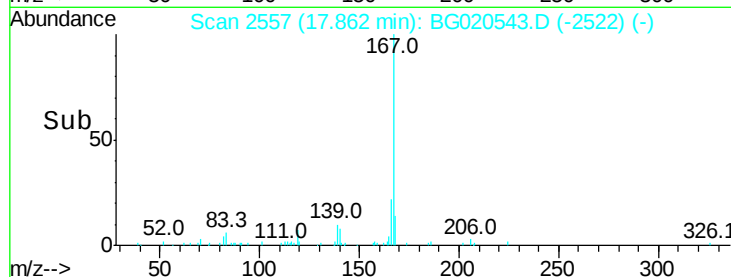
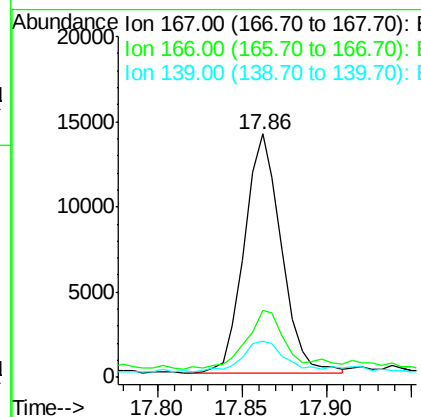
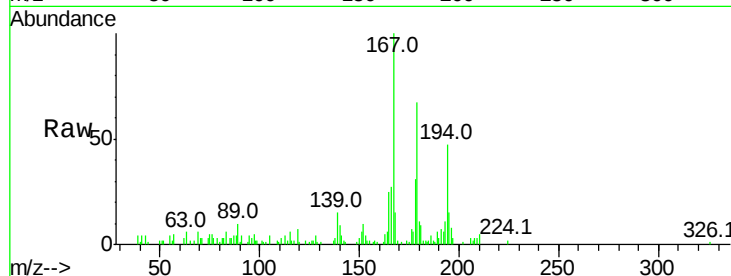
ClientSampleId :

G9D96MS

Tot Ion:	167	Resp:	21310
Ion Ratio	Lower	Upper	
167	100		
166	27.3	17.0	25.6#
139	14.7	10.1	15.1

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#77

Fluoranthene

Concen: 62.93 ng/ul

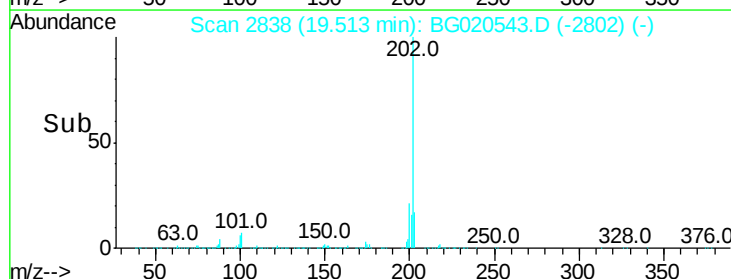
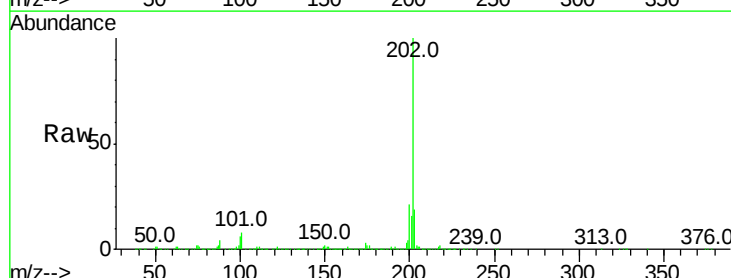
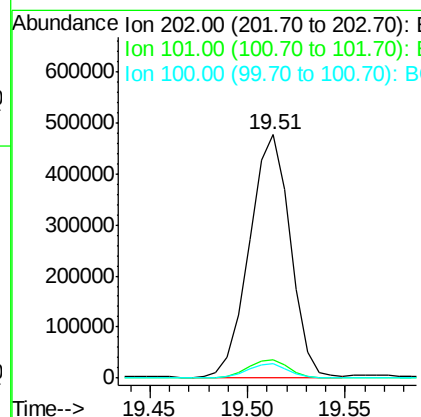
RT: 19.51 min Scan# 2838

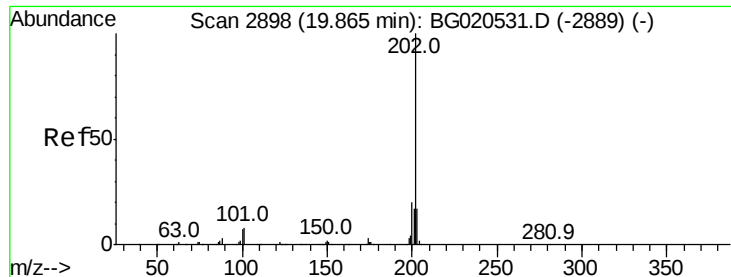
Delta R.T. 0.01 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

Tgt Ion:	202	Resp:	686748
Ion Ratio	Lower	Upper	
202	100		
101	7.6	6.2	9.4
100	6.0	5.1	7.7





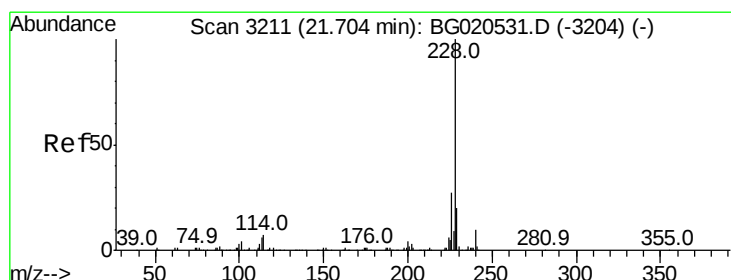
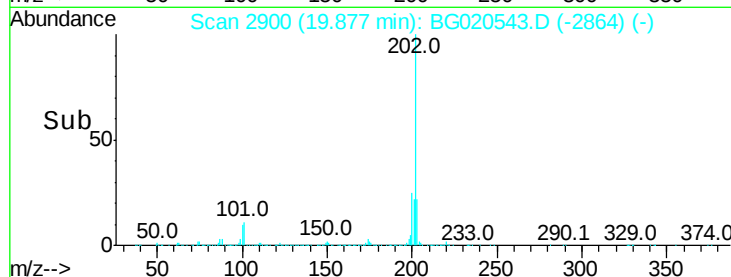
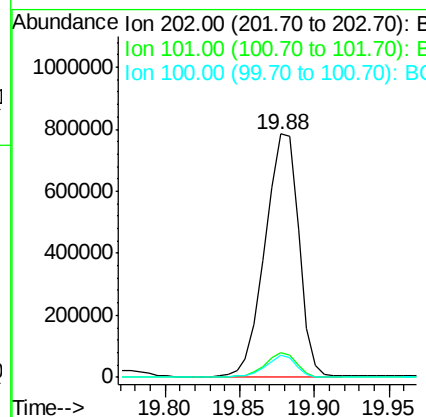
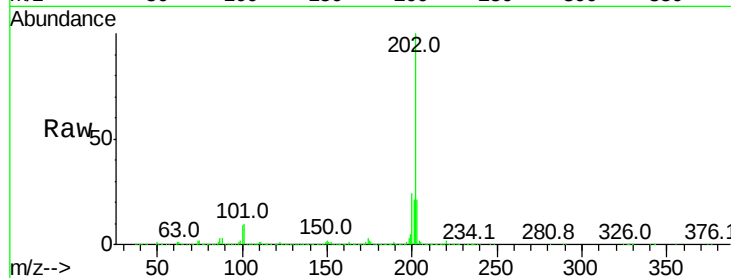
#80
Pvrene
Concen: 111.34 ng/ul
RT: 19.88 min Scan# 2900
Delta R.T. 0.01 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Instrument :
BNA_G
ClientSampleId :
G9D96MS

Tot Ion	Ratio	Lower	Upper
202	100		
101	10.0	7.0	10.4
100	9.1	6.4	9.6

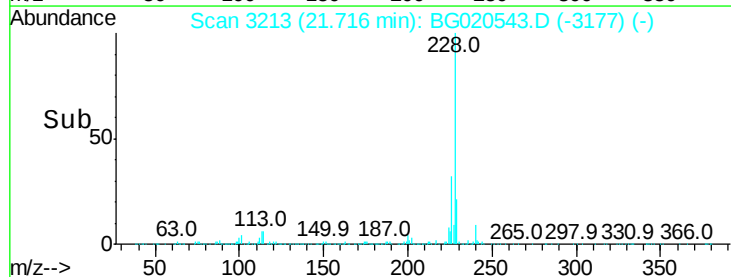
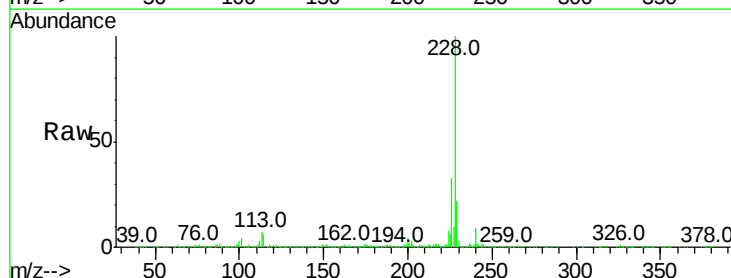
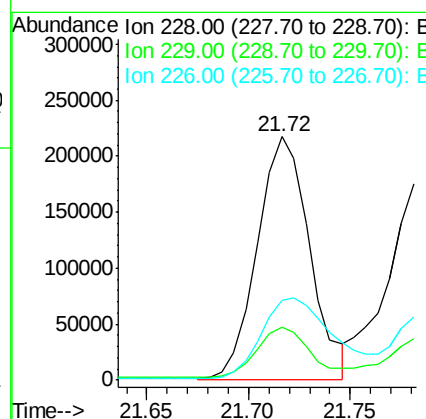
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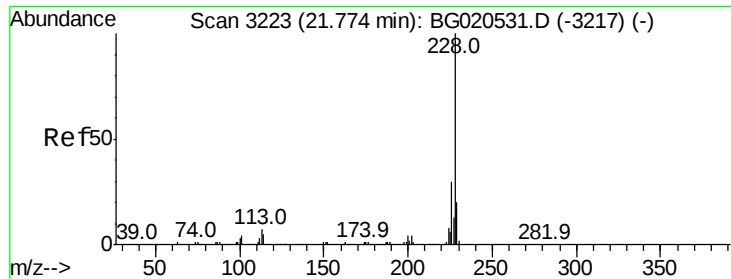
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#83
Benzo(a)anthracene
Concen: 33.96 ng/ul m
RT: 21.72 min Scan# 3213
Delta R.T. 0.01 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Tgt Ion	Ratio	Lower	Upper
228	100		
229	22.0	15.8	23.8
226	32.9	21.8	32.6#





#85

Chrvsene

Concen: 29.89 ng/ul

RT: 21.78 min Scan# 3224

Delta R.T. 0.01 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

Instrument :

BNA_G

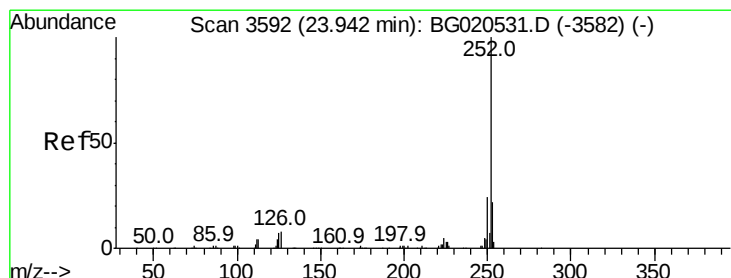
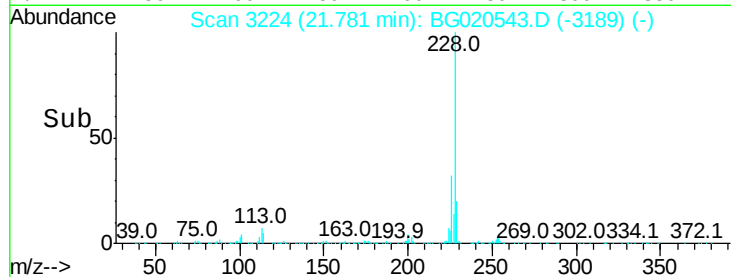
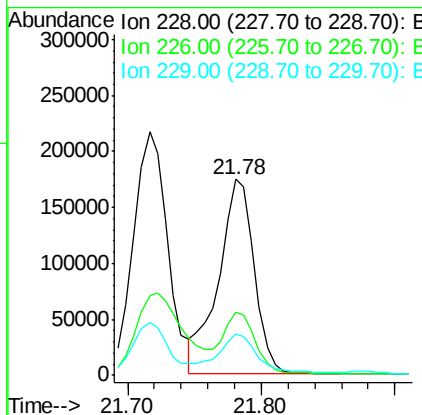
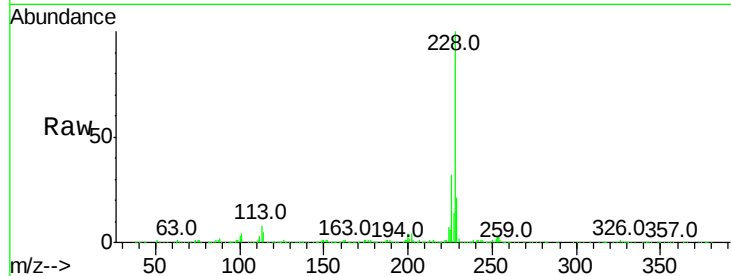
ClientSampleId :

G9D96MS

Tot Ion:	228	Resp:	325518
Ion Ratio	Lower	Upper	
228	100		
226	32.3	23.9	35.9
229	21.4	15.6	23.4

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#88

Benzo(b)fluoranthene

Concen: 20.87 ng/ul

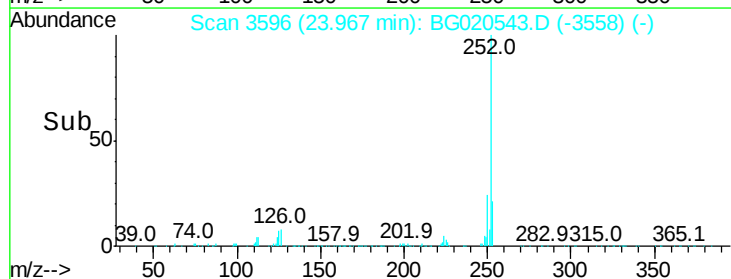
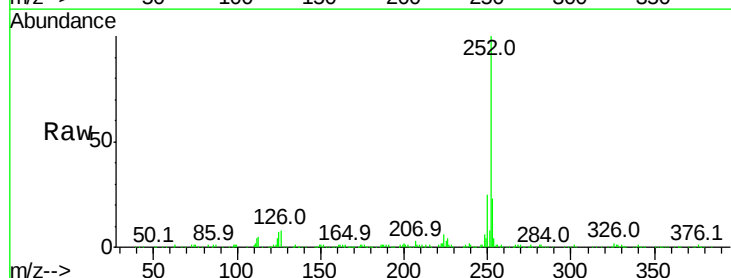
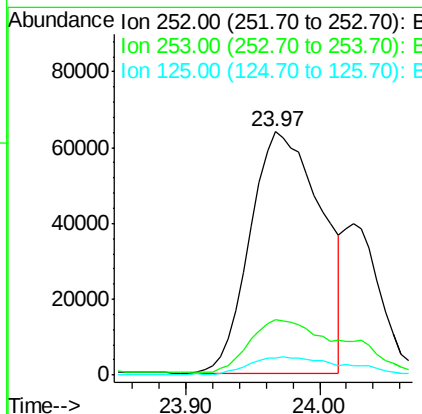
RT: 23.97 min Scan# 3596

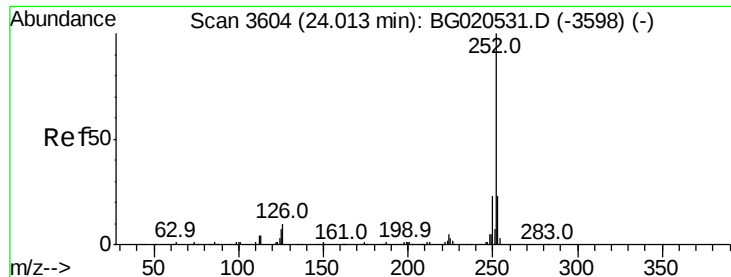
Delta R.T. 0.02 min

Lab File: BG020543.D

Acq: 26 Dec 2015 16:48

Tgt Ion:	252	Resp:	235218
Ion Ratio	Lower	Upper	
252	100		
253	22.6	16.7	25.1
125	7.1	6.2	9.2





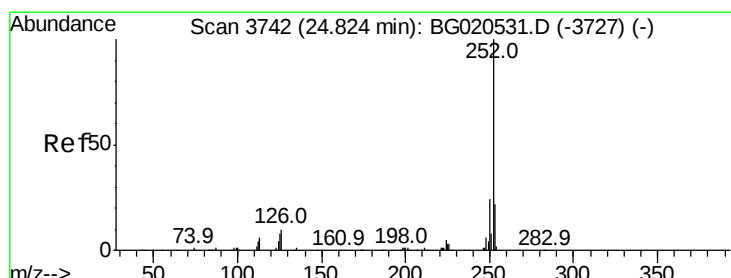
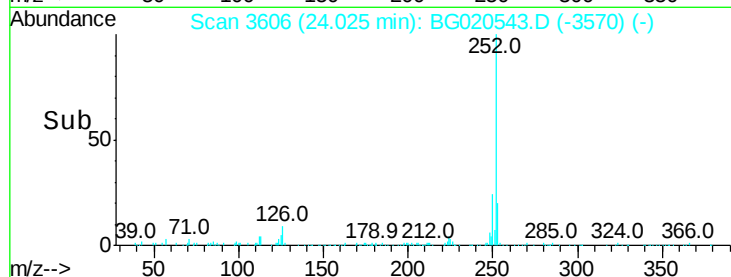
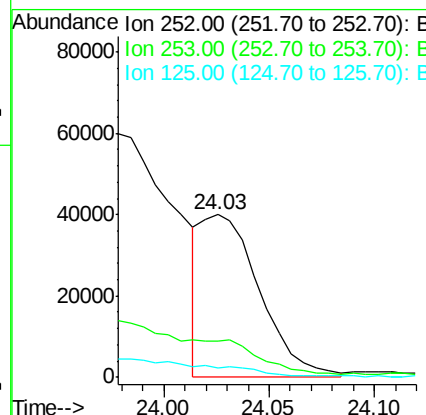
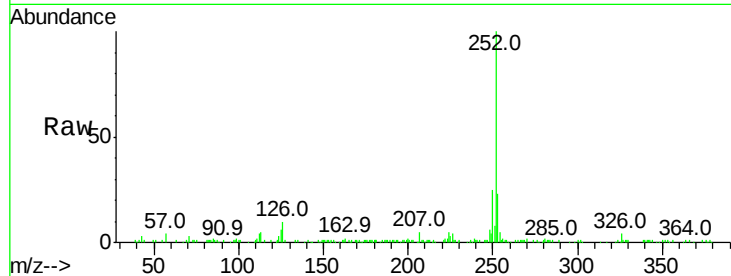
#89
Benzo(k)fluoranthene
Concen: 7.04 ng/ul m
RT: 24.03 min Scan# 3606
Delta R.T. 0.01 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Instrument :
BNA_G
ClientSampleId :
G9D96MS

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.6	17.9	26.9
125	6.0	5.8	8.6

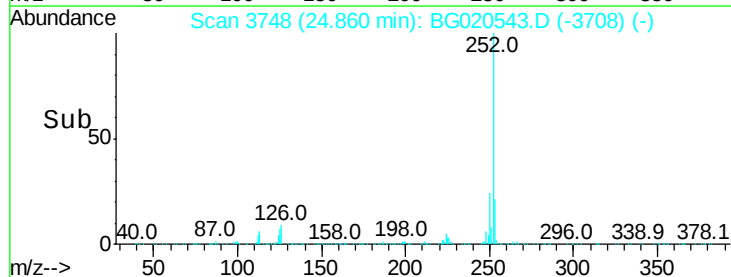
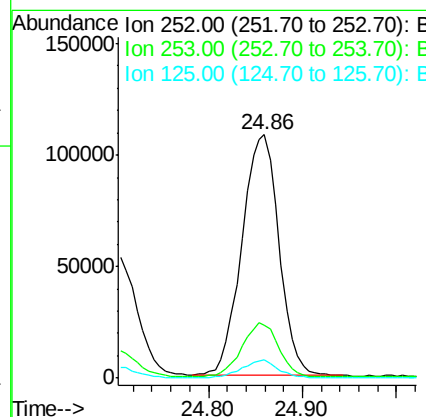
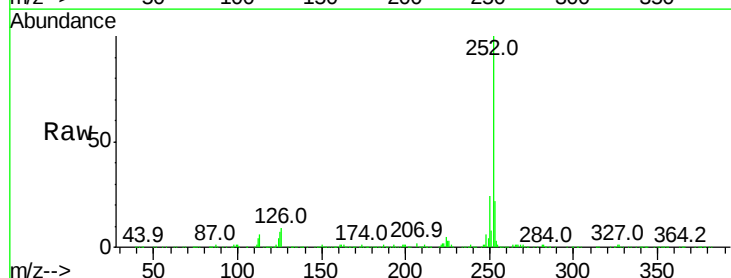
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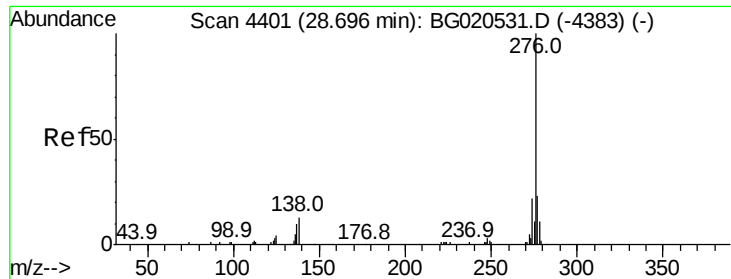
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#91
Benzo(a)pyrene
Concen: 27.36 ng/ul
RT: 24.86 min Scan# 3748
Delta R.T. 0.04 min
Lab File: BG020543.D
Acq: 26 Dec 2015 16:48

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	21.8	17.0	25.4
125	7.3	6.2	9.4





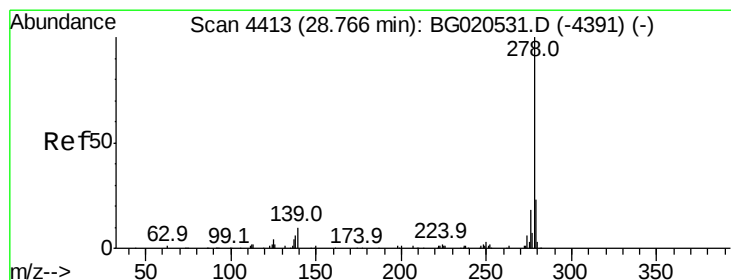
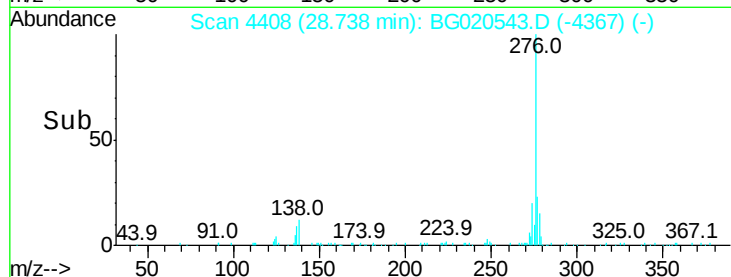
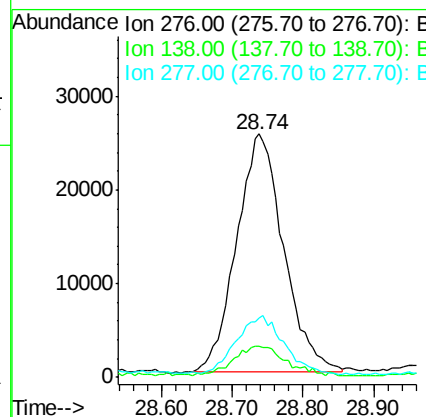
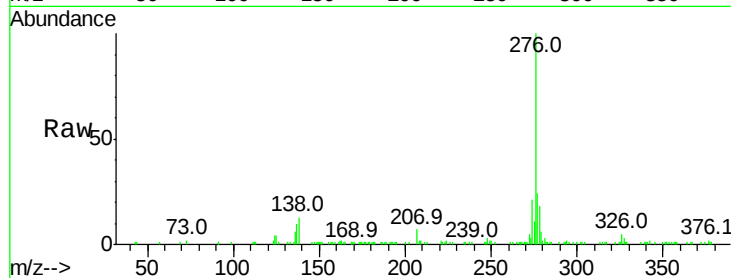
#92
 Indeno(1,2,3-cd)pyrene
 Concen: 9.11 ng/ul
 RT: 28.74 min Scan# 4408
 Delta R.T. 0.04 min
 Lab File: BG020543.D
 Acq: 26 Dec 2015 16:48

Instrument :
 BNA_G
 ClientSampleId :
 G9D96MS

Tot Ion	Ratio	Resp	Lower	Upper
276	100	118172		
138	13.0		11.4	17.0
277	24.5		17.4	26.0

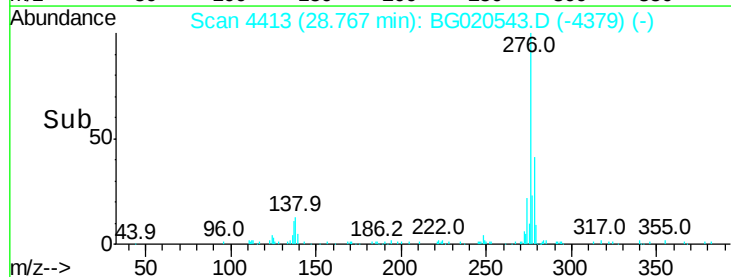
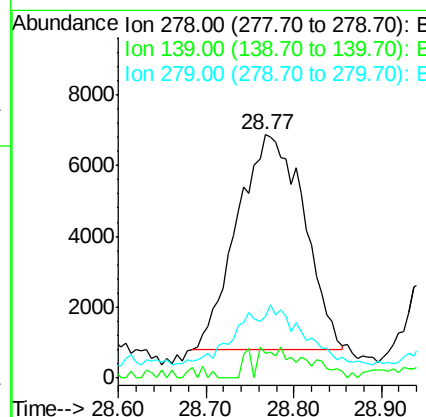
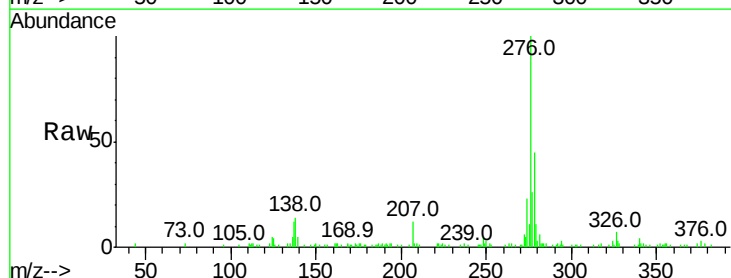
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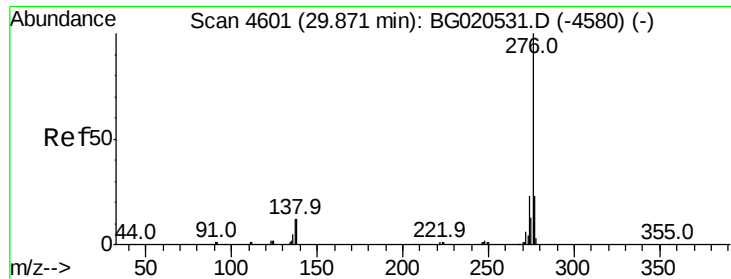
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#93
 Dibenzo(a,h)anthracene
 Concen: 2.95 ng/ul
 RT: 28.77 min Scan# 4413
 Delta R.T. 0.00 min
 Lab File: BG020543.D
 Acq: 26 Dec 2015 16:48

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	31795		
139	10.3		9.4	14.2
279	25.6		19.4	29.0





#94
 Benzo(a,h,i)perylene
 Concen: 11.53 ng/ul
 RT: 29.91 min Scan# 4607
 Delta R.T. 0.04 min
 Lab File: BG020543.D
 Acq: 26 Dec 2015 16:48

Instrument :
 BNA_G
 ClientSampleId :
 G9D96MS

Tot Ion:	276	Resp:	122910
Ion Ratio		Lower	Upper
276	100		
138	14.6	10.8	16.2
277	23.4	19.9	29.9

Manual Integrations
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