

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051616\
 Data File : BG021921.D
 Acq On : 17 May 2016 00:45
 Operator : UM/SJ
 Sample : H3095-15MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9XF0MSD

Manual Integrations
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 5/17/2016 7:21:00 PM

Quant Time: May 17 04:13:46 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 17 01:35:08 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	77900	20.00	ng/ul	0.00
18) Naphthalene-d8	10.99	136	366887	20.00	ng/ul	0.01
36) Acenaphthene-d10	14.79	164	201970	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.54	188	399836	20.00	ng/ul	0.01
76) Chrysene-d12	21.83	240	386362	20.00	ng/ul	0.02
84) Perylene-d12	25.18	264	378314	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.55	96	5500	3.41	ng/uL	0.00
5) Phenol-d5	7.33	99	152544	26.39	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.48	67	69082	24.10	ng/ul	0.00
9) 2-Chlorophenol-d4	7.70	132	133358	29.72	ng/ul	0.01
13) 4-Methylphenol-d8	8.88	113	126164	25.99	ng/ul	0.01
19) Nitrobenzene-d5	9.34	128	69376	28.76	ng/ul	0.01
22) 2-Nitrophenol-d4	10.06	143	74825	49.11	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.61	165	138557	32.16	ng/ul	0.01
29) 4-Chloroaniline-d4	11.13	131	115298	24.84	ng/ul	0.01
44) Dimethylphthalate-d6	14.19	166	399859	28.19	ng/ul	0.01
47) Acenaphthylene-d8	14.49	160	538460	26.73	ng/ul	0.01
52) 4-Nitrophenol-d4	14.99	143	63509	26.12	ng/ul	0.02
58) Fluorene-d10	15.79	176	362841	24.29	ng/ul	0.01
63) 4,6-Dinitro-2-methylphenol	15.90	200	36502	32.96	ng/ul	0.01
71) Anthracene-d10	17.64	188	494110	25.39	ng/ul	0.01
77) Pyrene-d10	19.92	212	521089	28.81	ng/ul	0.01
88) Benzo(a)pyrene-d12	24.95	264	488920	27.20	ng/ul	0.03

Target Compounds

					Ovalue	
6) Phenol	7.35	94	153983	25.05	ng/ul#	72
10) 2-Chlorophenol	7.73	128	135432	29.94	ng/ul#	77
15) N-Nitroso-di-n-propylamine	8.97	70	85923	23.78	ng/ul#	73
28) Naphthalene	11.04	128	46499	2.53	ng/ul	98
33) 4-Chloro-3-methylphenol	12.26	107	131409	29.61	ng/ul#	67
34) 2-Methylnaphthalene	12.64	142	20416	1.51	ng/ul	96
35) 1-Methylnaphthalene	12.86	142	16081	1.20	ng/ul#	96
45) Dimethylphthalate	14.24	163	102244	7.08	ng/ul	99
50) Acenaphthene	14.86	153	420087	29.30	ng/ul	97
53) 4-Nitrophenol	15.01	109	30123m	27.18	ng/ul	
54) Dibenzofuran	15.19	168	32829	1.71	ng/ul	90
55) 2,4-Dinitrotoluene	15.16	165	121590	30.80	ng/ul#	54
59) Fluorene	15.84	166	31836	1.91	ng/ul	98
69) Pentachlorophenol	17.19	266	79382	43.07	ng/ul	95
70) Phenanthrene	17.58	178	772483	35.34	ng/ul	96
72) Anthracene	17.67	178	143849	6.48	ng/ul	99
73) Carbazole	17.94	167	103893	5.40	ng/ul#	95
75) Fluoranthene	19.59	202	1095875	44.12	ng/ul#	94
78) Pyrene	19.95	202	1470824m	65.80	ng/ul	
81) Benzo(a)anthracene	21.81	228	454522	21.14	ng/ul	96
82) Bis(2-ethylhexyl)phthalate	21.69	149	90961	11.28	ng/ul	92
83) Chrysene	21.88	228	430775	20.25	ng/ul	97
86) Benzo(b)fluoranthene	24.11	252	570025	26.32	ng/ul#	94

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Instrument :
BNA_G
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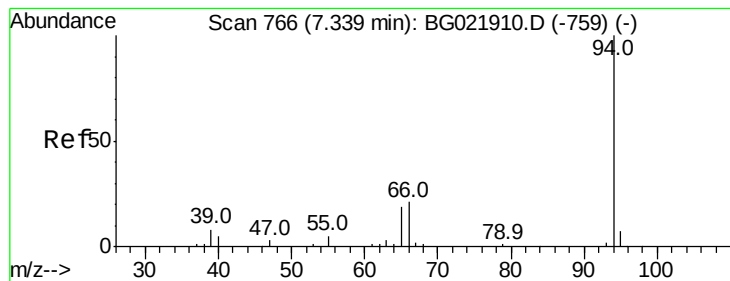
Manual Integrations
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Quant Time: May 17 04:13:46 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 17 01:35:08 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Benzo(k)fluoranthene	24.17	252	200101m	8.63	ng/ul	
89) Benzo(a)pyrene	25.02	252	354062	16.42	ng/ul#	95
90) Indeno(1,2,3-cd)pyrene	29.02	276	179441m	7.02	ng/ul	
92) Benzo(g,h,i)perylene	30.21	276	136158m	6.46	ng/ul	

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



#6

Phenol

Concen: 25.05 ng/ul

RT: 7.35 min Scan# 768

Delta R.T. 0.01 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Instrument :

BNA_G

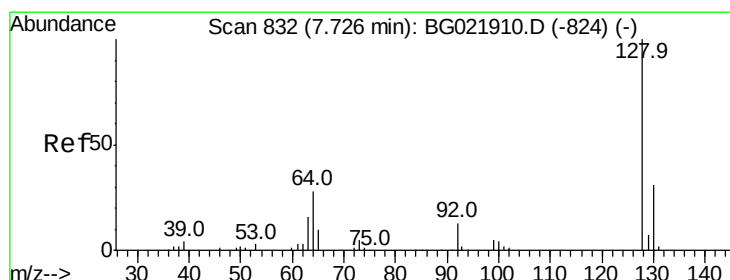
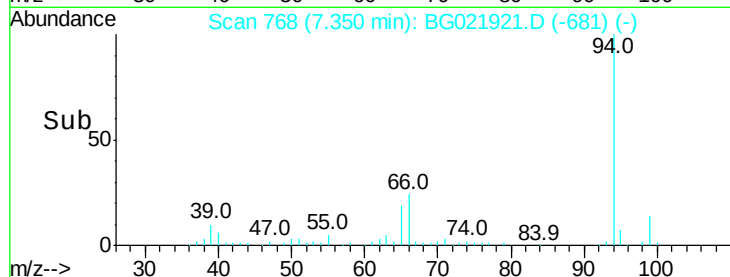
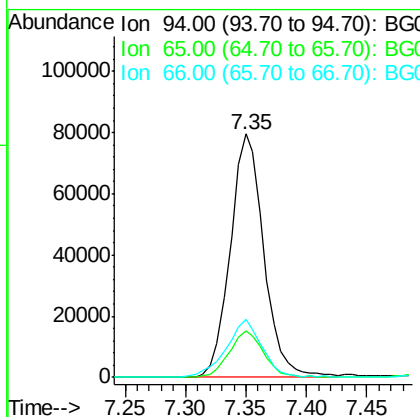
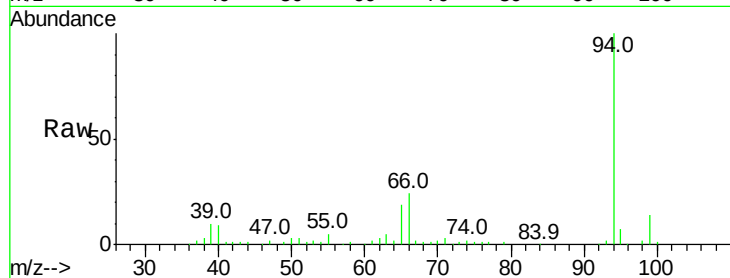
ClientSampleId :

D9XF0MSD

Tot Ion:	94	Resp:	153983
Ion Ratio	Lower	Upper	
94	100		
65	19.2	26.1	39.1#
66	23.6	35.0	52.4#

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#10

2-Chlorophenol

Concen: 29.94 ng/ul

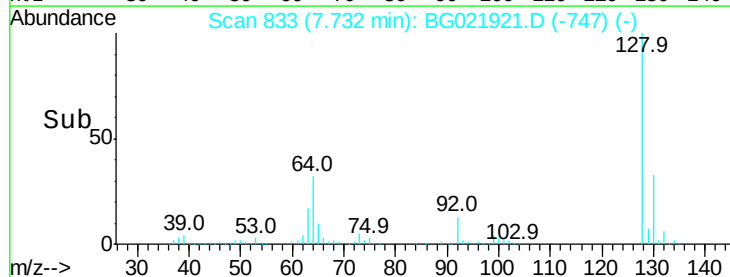
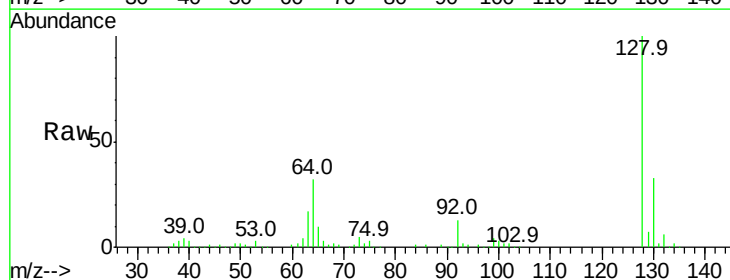
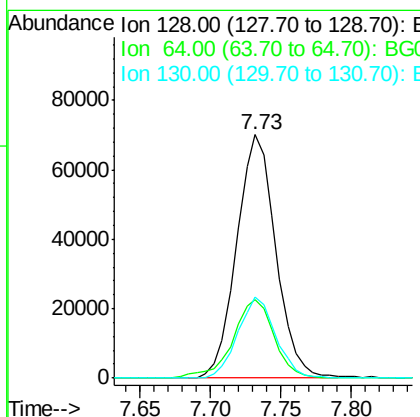
RT: 7.73 min Scan# 833

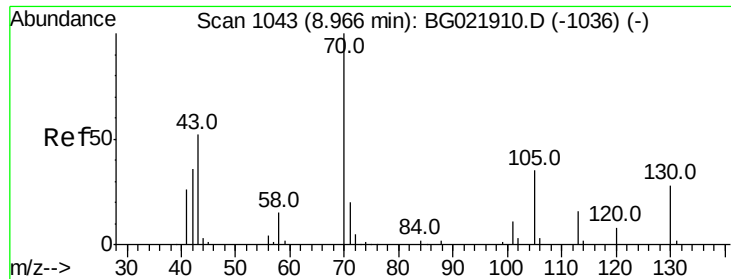
Delta R.T. 0.01 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Tgt Ion:	128	Resp:	135432
Ion Ratio	Lower	Upper	
128	100		
64	32.3	47.0	70.6#
130	33.3	27.8	41.6





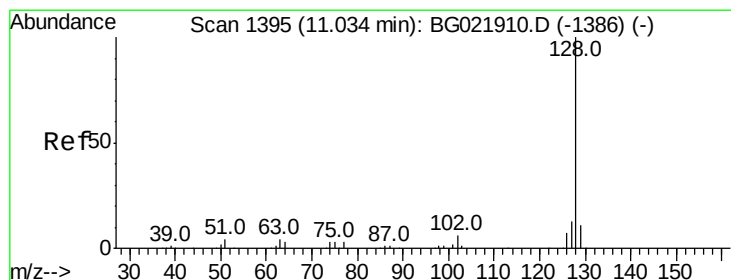
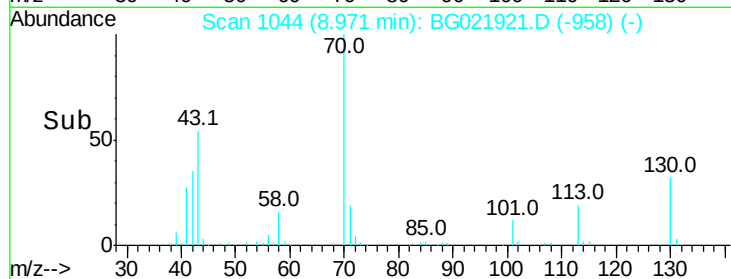
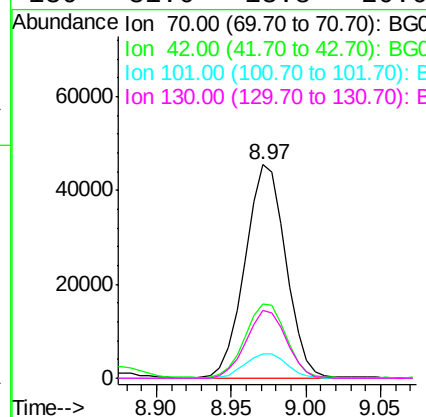
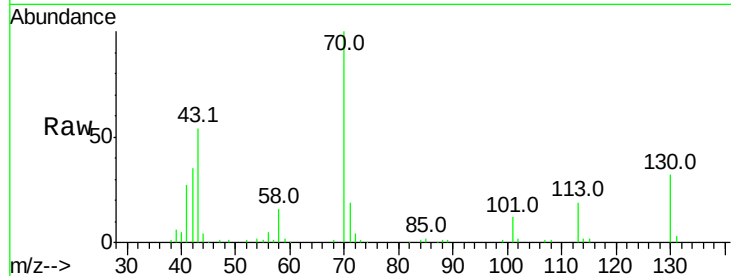
#15
N-Nitroso-di-n-propylamine
Concen: 23.78 ng/ul
RT: 8.97 min Scan# 1044
Delta R.T. 0.01 min
Lab File: BG021921.D
Acq: 17 May 2016 00:45

Instrument :
BNA_G
ClientSampleId :
D9XF0MSD

Tot Ion	Ratio	Lower	Upper
70	100		
42	34.6	43.4	65.0#
101	11.6	6.5	9.7#
130	31.6	13.8	20.6#

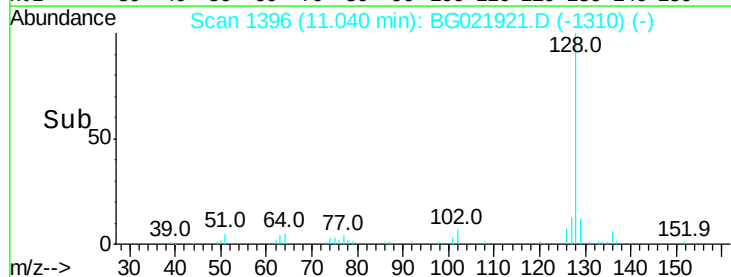
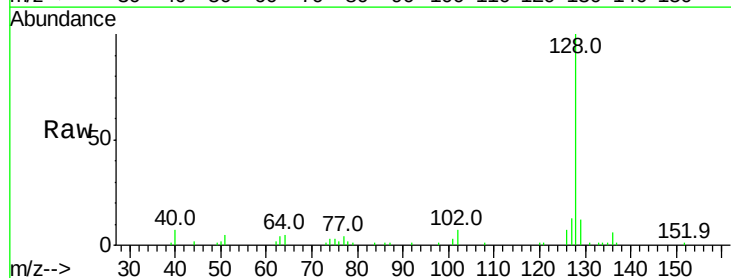
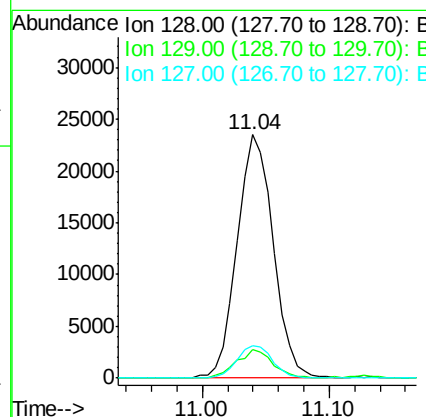
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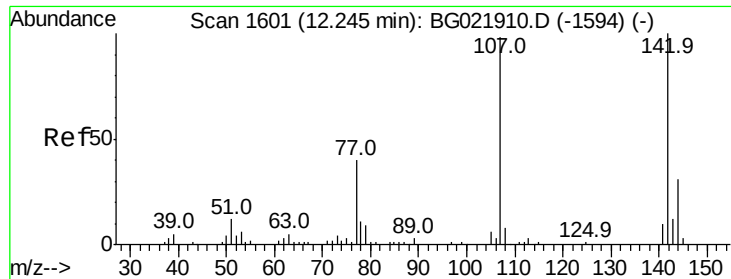
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#28
Naphthalene
Concen: 2.53 ng/ul
RT: 11.04 min Scan# 1396
Delta R.T. 0.01 min
Lab File: BG021921.D
Acq: 17 May 2016 00:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.3	12.5
127	13.3	10.8	16.2





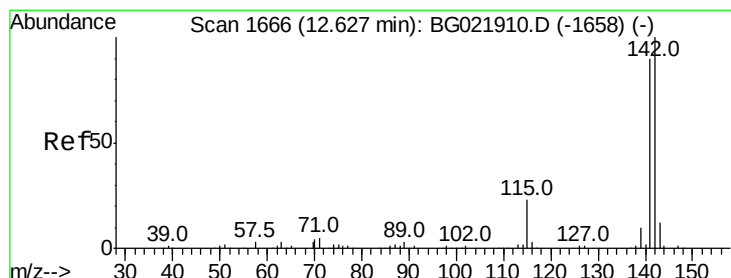
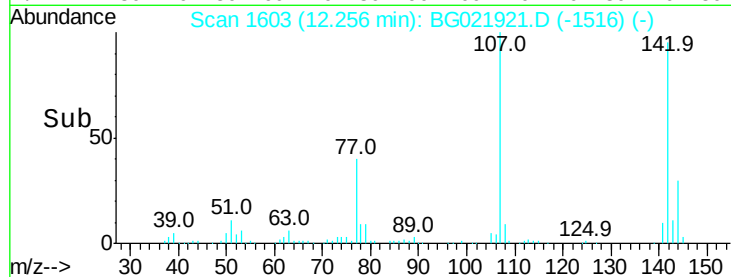
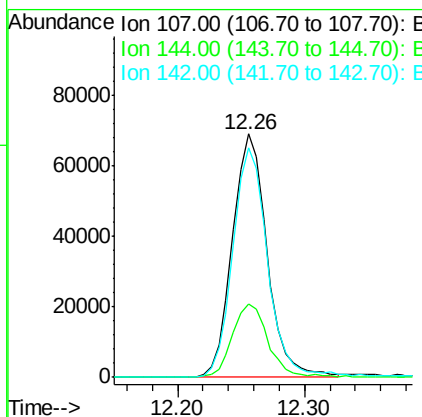
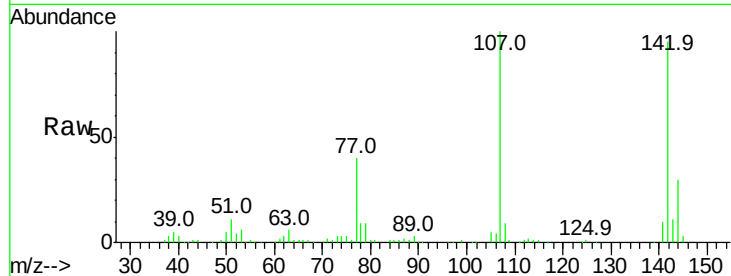
#33
 4-Chloro-3-methylphenol
 Concen: 29.61 ng/ul
 RT: 12.26 min Scan# 1603
 Delta R.T. 0.01 min
 Lab File: BG021921.D
 Acq: 17 May 2016 00:45

Instrument :
 BNA_G
 ClientSampleId :
 D9XF0MSD

Tot Ion	Ratio	Resp	Lower	Upper
107	100	131409		
144	30.3	17.2	25.8#	
142	94.5	52.0	78.0#	

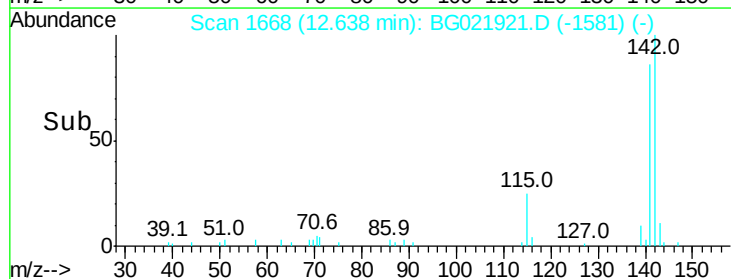
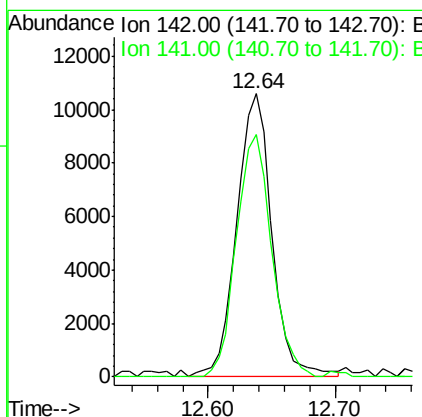
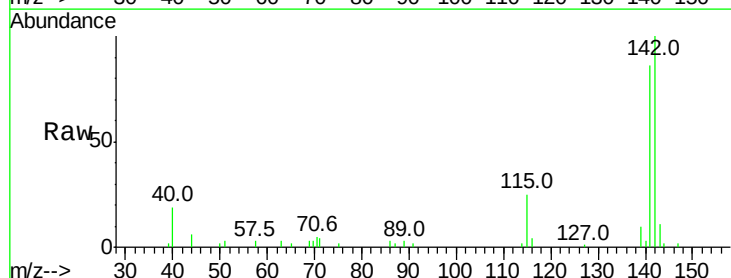
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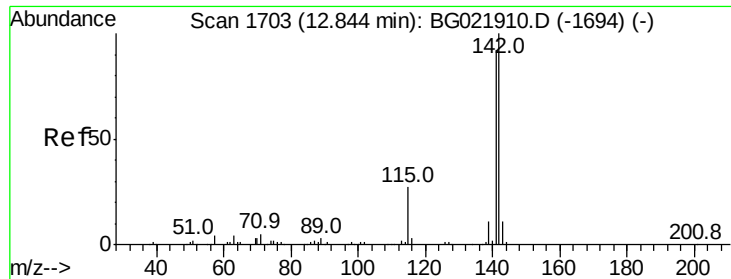
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#34
 2-Methylnaphthalene
 Concen: 1.51 ng/ul
 RT: 12.64 min Scan# 1668
 Delta R.T. 0.01 min
 Lab File: BG021921.D
 Acq: 17 May 2016 00:45

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	20416		
141	85.6	71.3	106.9	





#35

1-Methylnaphthalene

Concen: 1.20 ng/ul

RT: 12.86 min Scan# 1705

Delta R.T. 0.01 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Instrument :

BNA_G

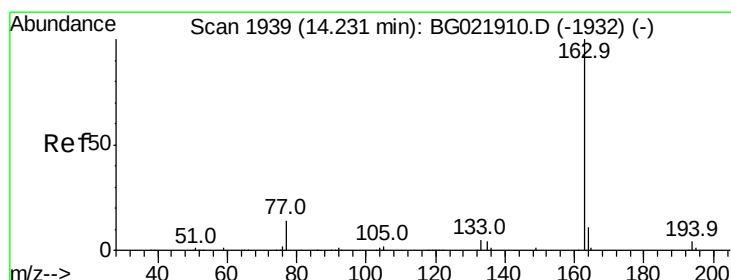
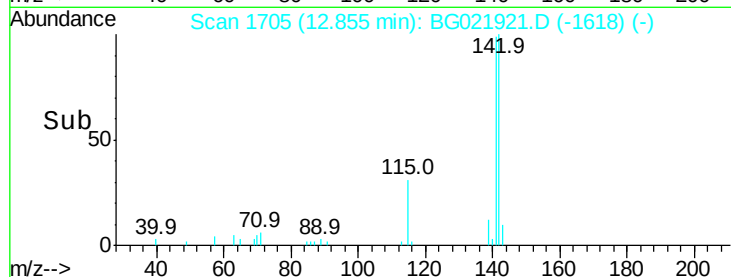
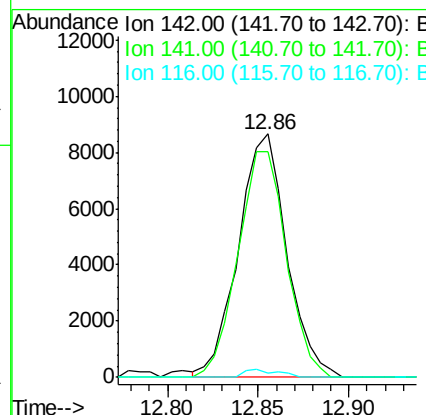
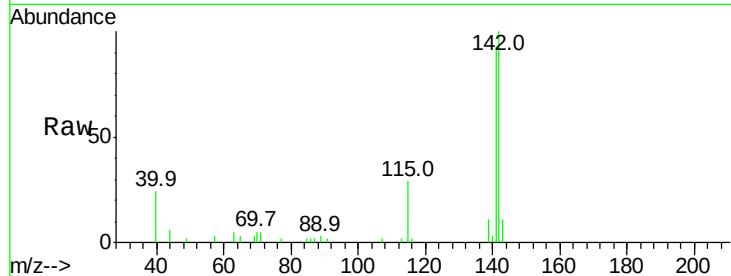
ClientSampleId :

D9XF0MSD

Tot Ion:	142	Resp:	16081
Ion Ratio	Lower	Upper	
142	100		
141	92.7	77.0	115.4
116	1.9	4.2	6.4#

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#45

Dimethylphthalate

Concen: 7.08 ng/ul

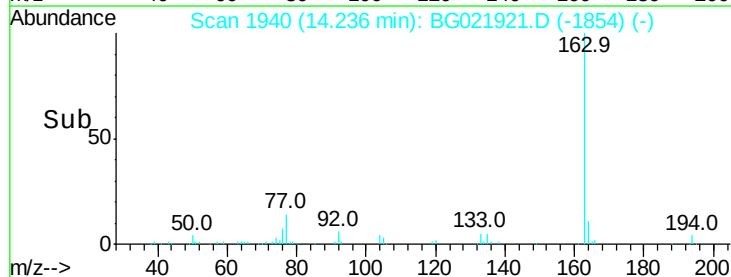
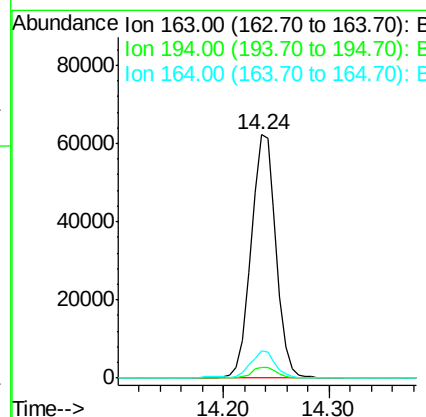
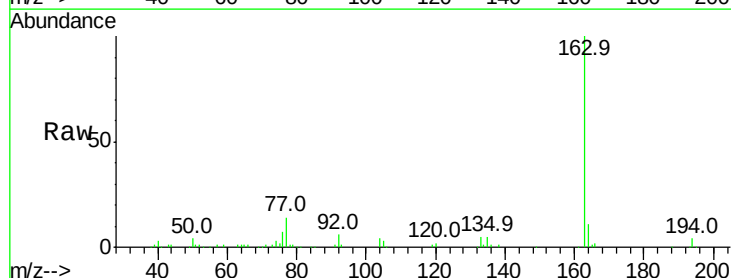
RT: 14.24 min Scan# 1940

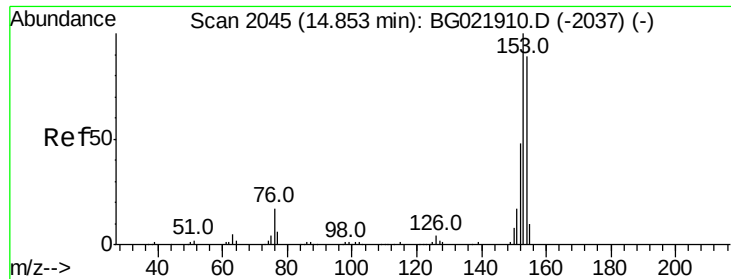
Delta R.T. 0.01 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Tgt Ion:	163	Resp:	102244
Ion Ratio	Lower	Upper	
163	100		
194	4.4	3.9	5.9
164	11.2	8.7	13.1





#50

Acenaphthene

Concen: 29.30 ng/ul

RT: 14.86 min Scan# 2046

Delta R.T. 0.01 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Instrument :

BNA_G

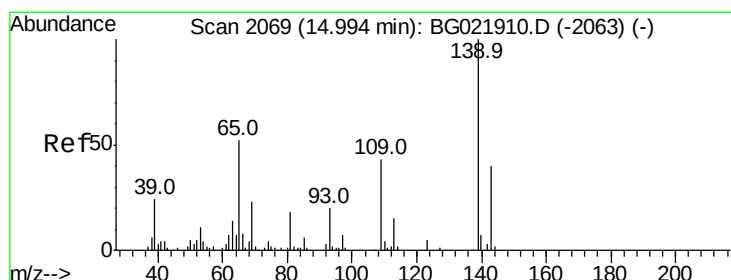
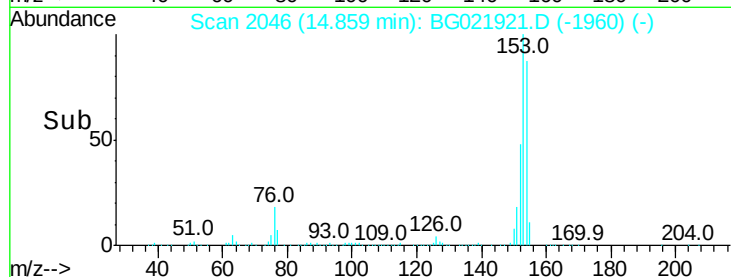
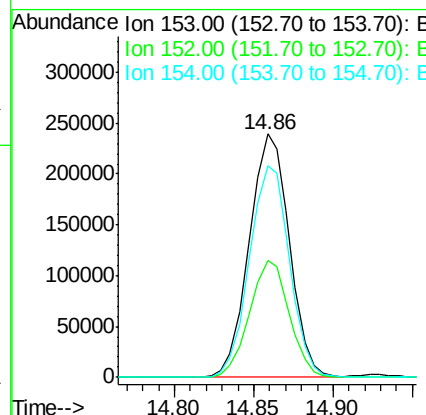
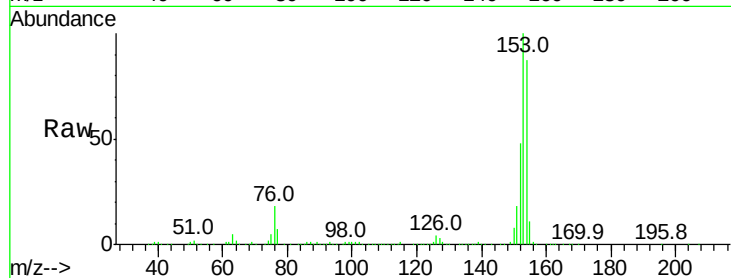
ClientSampleId :

D9XF0MSD

Tot Ion:153	Resp:	420087
Ion Ratio	Lower	Upper
153	100	
152	48.2	36.5 54.7
154	87.0	67.3 100.9

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#53

4-Nitrophenol

Concen: 27.18 ng/ul m

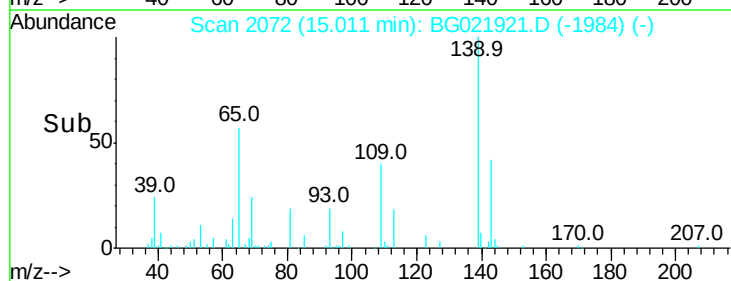
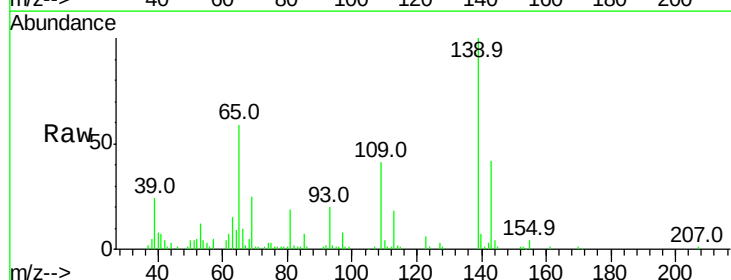
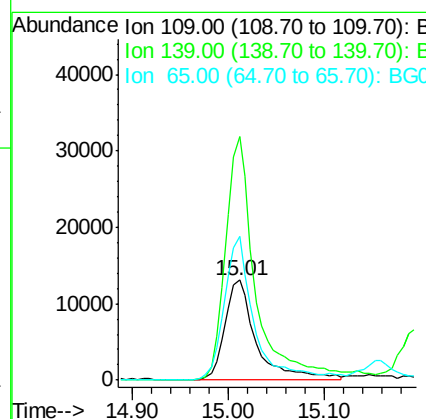
RT: 15.01 min Scan# 2072

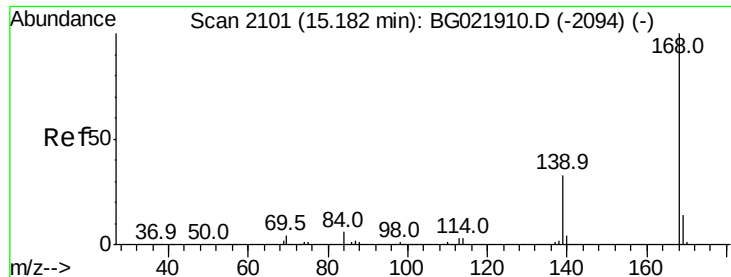
Delta R.T. 0.02 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Tgt Ion:109	Resp:	30123
Ion Ratio	Lower	Upper
109	100	
139	244.1	75.9 113.9#
65	143.9	99.8 149.8





#54

Dibenzofuran

Concen: 1.71 ng/ul

RT: 15.19 min Scan# 2103

Delta R.T. 0.01 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Instrument :

BNA_G

ClientSampleId :

D9XF0MSD

Tot Ion:168 Resp: 32829

Ion Ratio Lower Upper

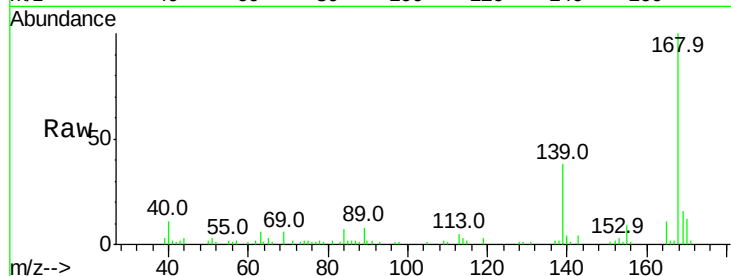
168 100

139 37.6 35.2 52.8

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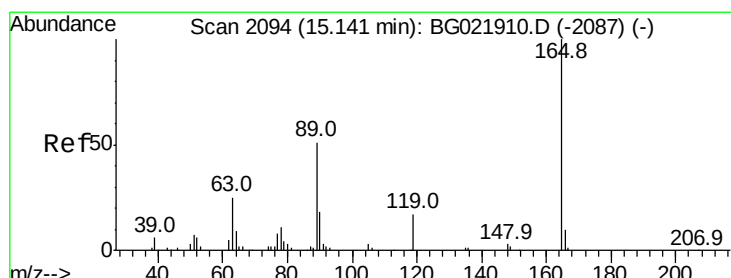
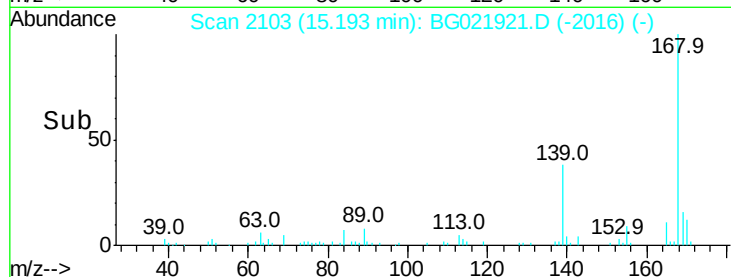


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

15.19

15.15 15.20 15.25



#55

2,4-Dinitrotoluene

Concen: 30.80 ng/ul

RT: 15.16 min Scan# 2097

Delta R.T. 0.02 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

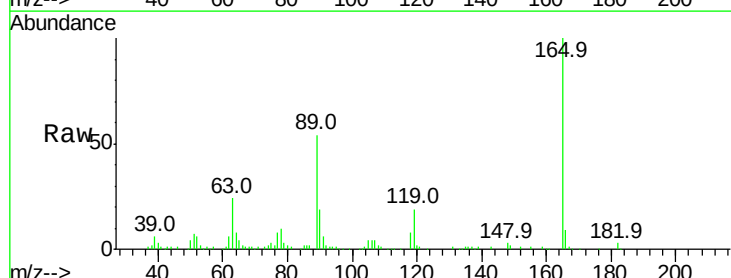
Tgt Ion:165 Resp: 121590

Ion Ratio Lower Upper

165 100

63 23.6 48.1 72.1#

182 2.9 2.2 3.2



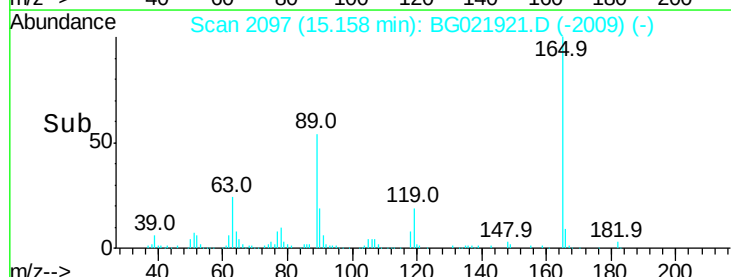
Abundance Ion 165.00 (164.70 to 165.70): E

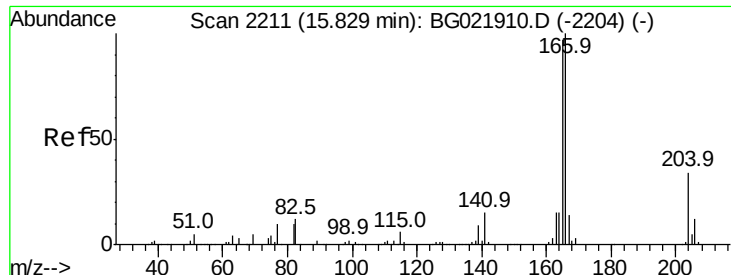
Ion 63.00 (62.70 to 63.70): BG0

Ion 182.00 (181.70 to 182.70): E

15.16

15.10 15.20





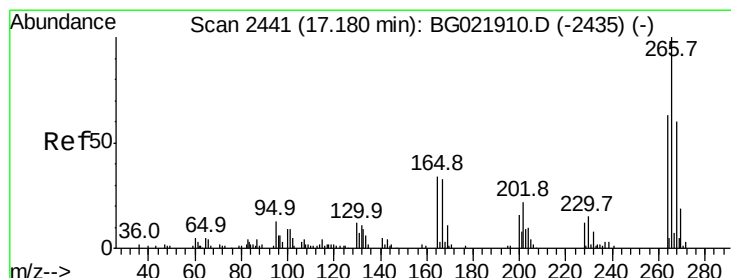
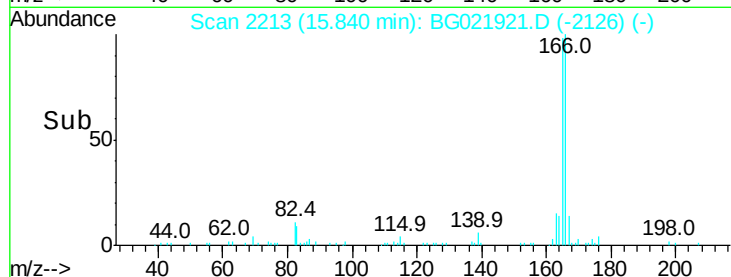
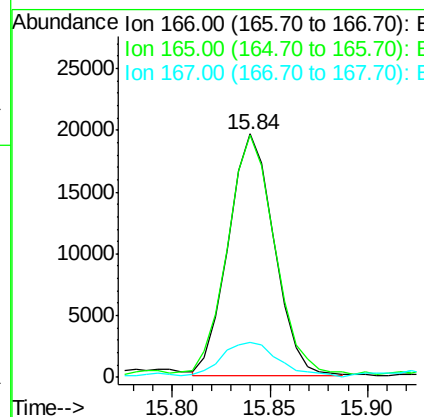
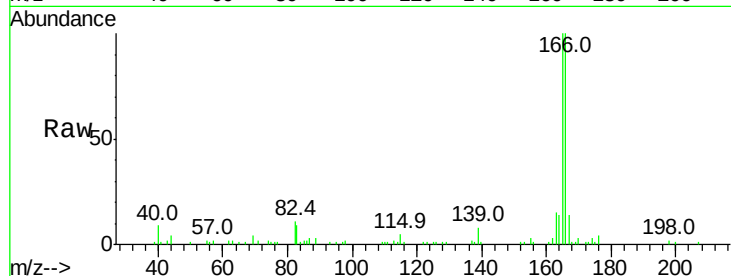
#59
 Fluorene
 Concen: 1.91 ng/ul
 RT: 15.84 min Scan# 2213
 Delta R.T. 0.01 min
 Lab File: BG021921.D
 Acq: 17 May 2016 00:45

Instrument :
 BNA_G
 ClientSampleId :
 D9XF0MSD

Tot Ion	Ratio	Resp	Lower	Upper
166	100	31836		
165	99.8	81.1	121.7	
167	14.4	10.6	16.0	

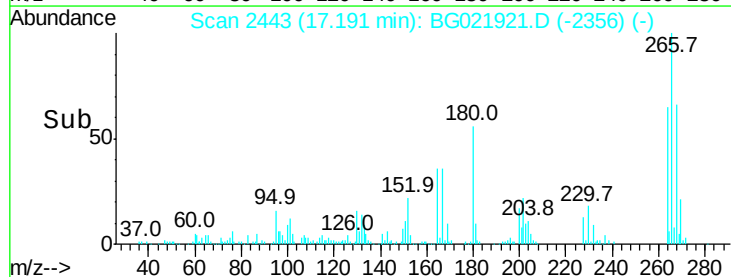
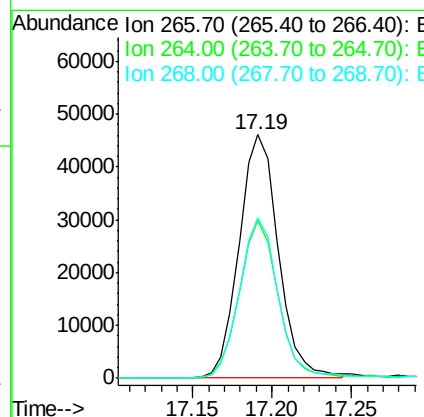
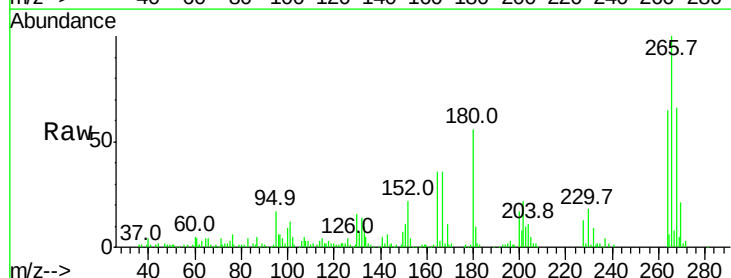
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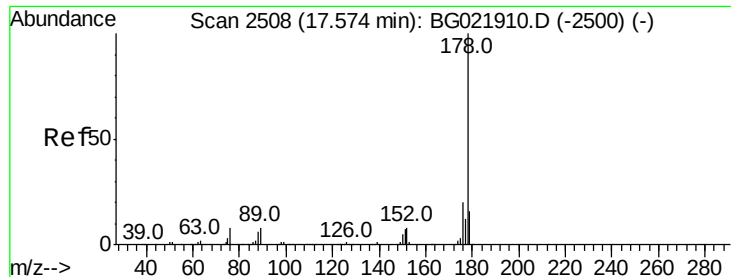
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#69
 Pentachlorophenol
 Concen: 43.07 ng/ul
 RT: 17.19 min Scan# 2443
 Delta R.T. 0.01 min
 Lab File: BG021921.D
 Acq: 17 May 2016 00:45

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	79382		
264	70.7	56.7	85.1	
268	71.4	50.6	76.0	





#70

Phenanthrene

Concen: 35.34 ng/ul

RT: 17.58 min Scan# 2510

Delta R.T. 0.01 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Instrument :

BNA_G

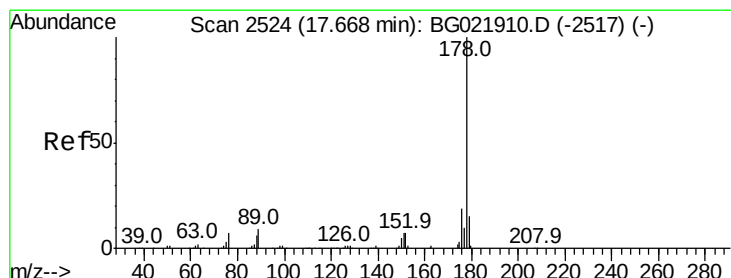
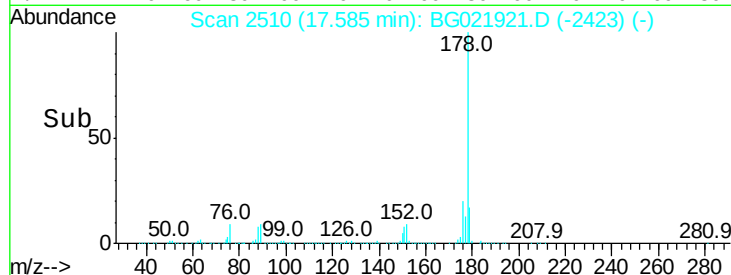
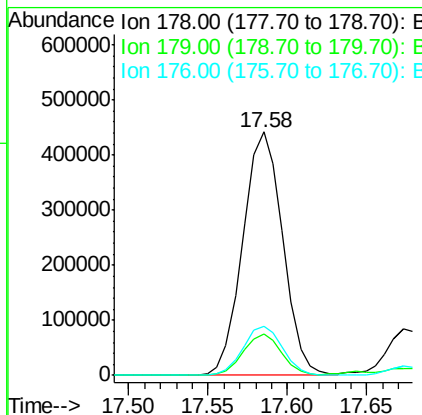
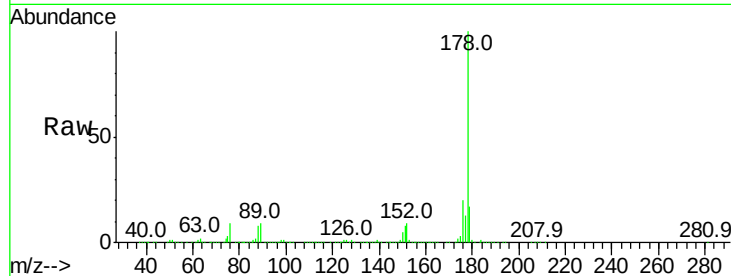
ClientSampleId :

D9XF0MSD

Tot Ion:178	Resp:	772483
Ion Ratio	Lower	Upper
178	100	
179	16.8	11.8 17.8
176	20.3	14.8 22.2

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#72

Anthracene

Concen: 6.48 ng/ul

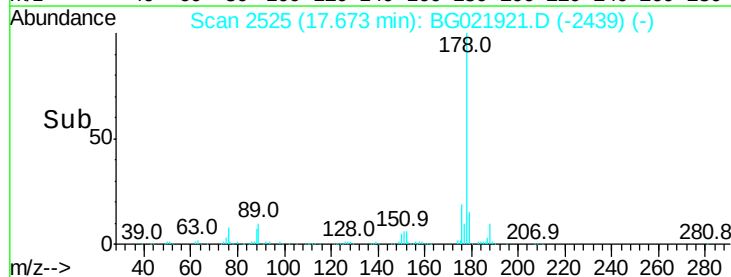
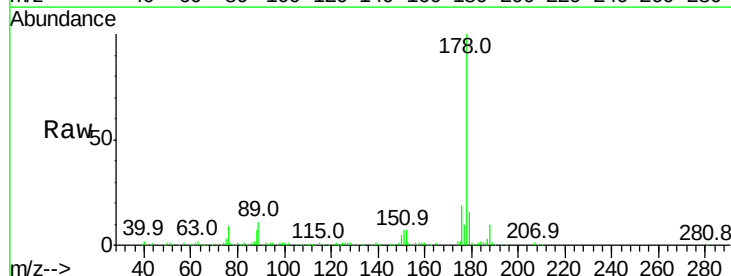
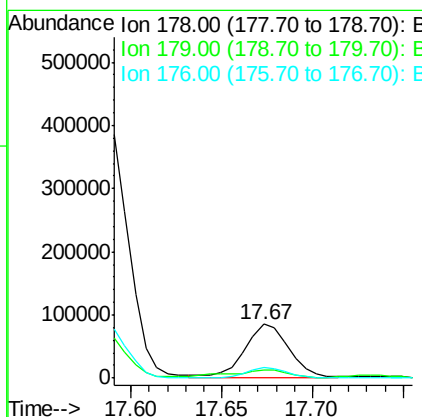
RT: 17.67 min Scan# 2525

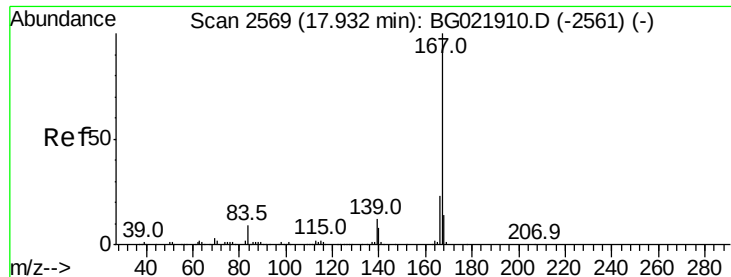
Delta R.T. 0.01 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Tgt Ion:178	Resp:	143849
Ion Ratio	Lower	Upper
178	100	
179	15.6	12.9 19.3
176	19.2	15.6 23.4





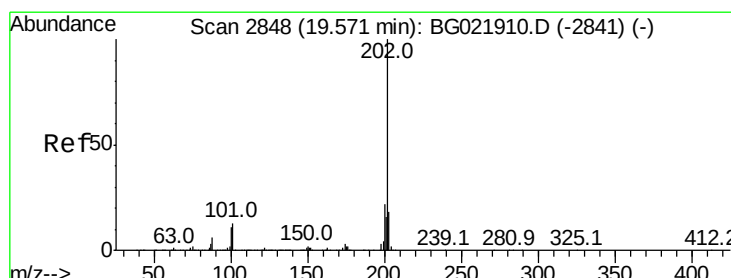
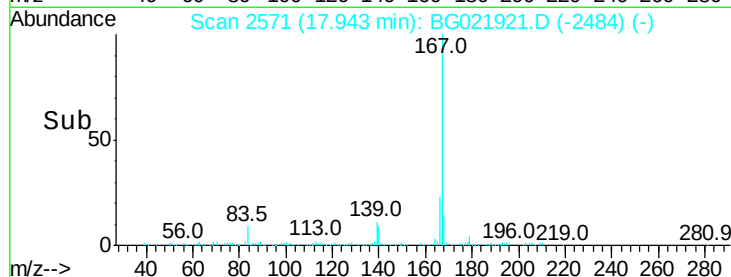
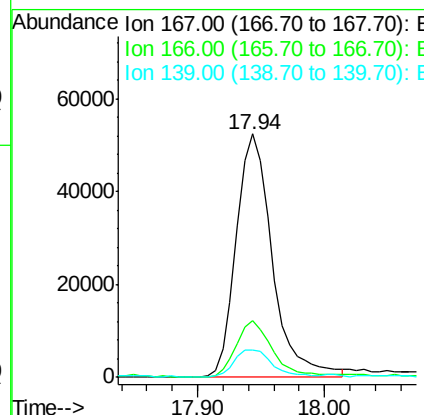
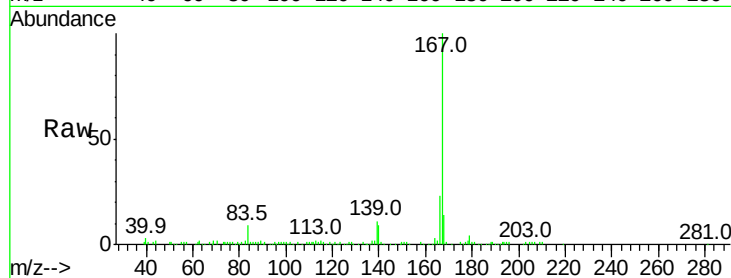
#73
 Carbazole
 Concen: 5.40 ng/ul
 RT: 17.94 min Scan# 2571
 Delta R.T. 0.01 min
 Lab File: BG021921.D
 Acq: 17 May 2016 00:45

Instrument :
 BNA_G
 ClientSampleId :
 D9XF0MSD

Tot Ion	Ratio	Resp	Lower	Upper
167	100			
166	23.3	19.0	28.4	
139	11.0	12.2	18.4	

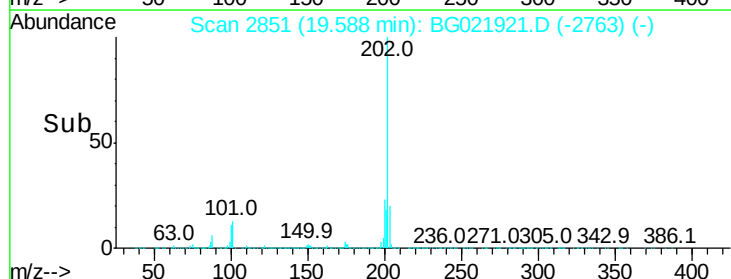
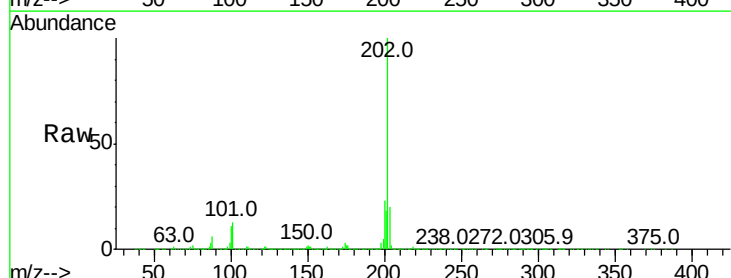
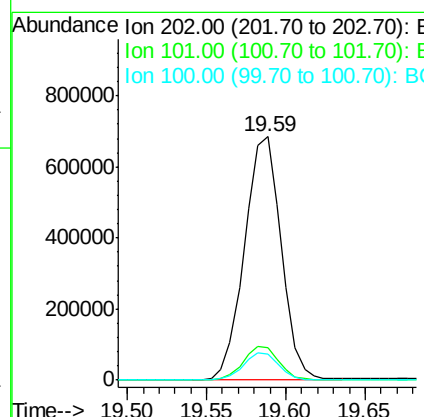
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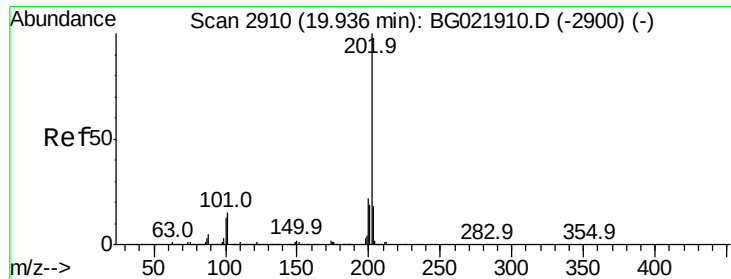
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#75
 Fluoranthene
 Concen: 44.12 ng/ul
 RT: 19.59 min Scan# 2851
 Delta R.T. 0.02 min
 Lab File: BG021921.D
 Acq: 17 May 2016 00:45

Tgt Ion	Ratio	Resp	Lower	Upper
202	100			
101	13.2	8.9	13.3	
100	10.7	7.0	10.4	





#78

Pvrene

Concen: 65.80 ng/ul m

RT: 19.95 min Scan# 2913

Delta R.T. 0.02 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Instrument :

BNA_G

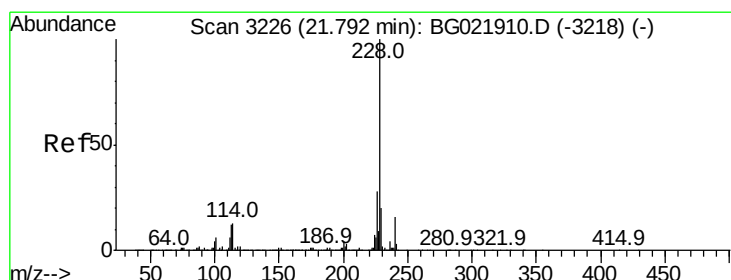
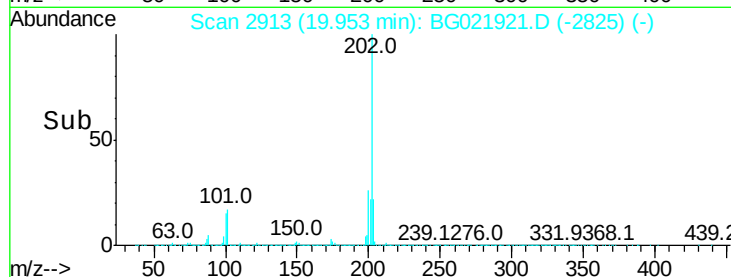
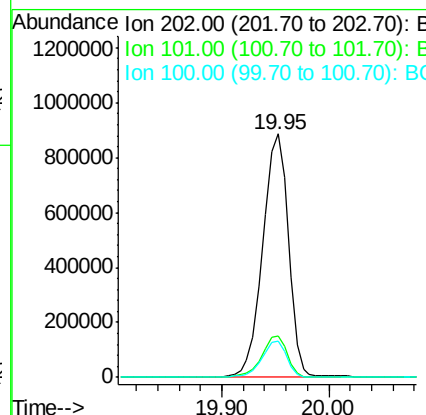
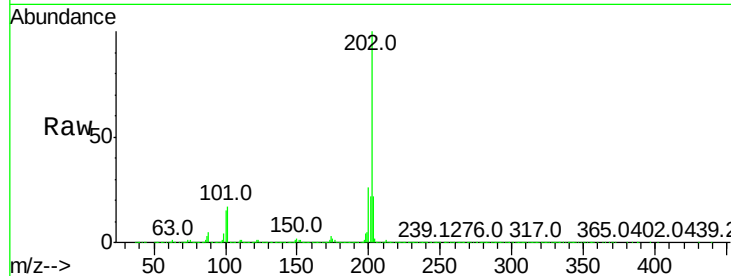
ClientSampleId :

D9XF0MSD

Tot Ion	Ratio	Lower	Upper
202	100		
101	17.1	9.8	14.8#
100	15.0	9.3	13.9#

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#81

Benzo(a)anthracene

Concen: 21.14 ng/ul

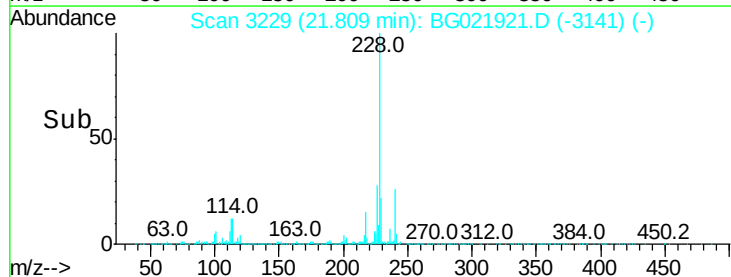
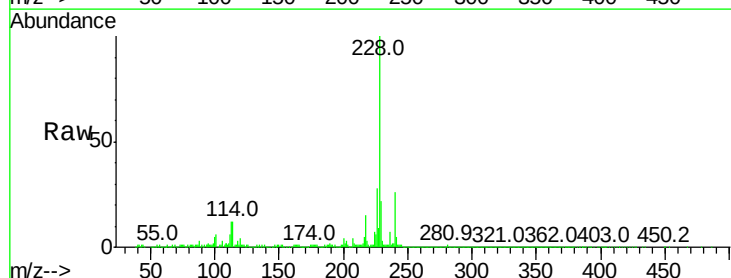
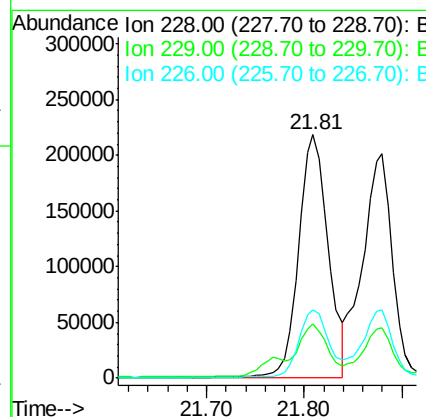
RT: 21.81 min Scan# 3229

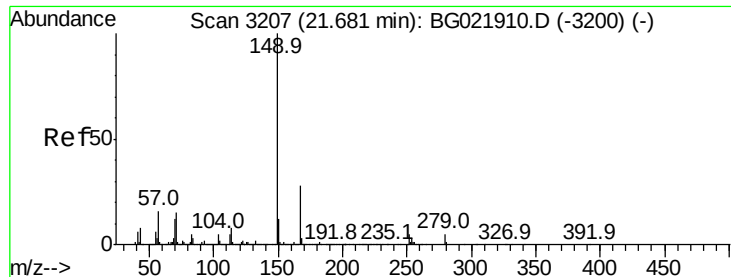
Delta R.T. 0.02 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Tgt Ion	Ratio	Lower	Upper
228	100		
229	22.3	16.6	25.0
226	28.2	21.0	31.4





#82

Bis(2-ethylhexyl)phthalate

Concen: 11.28 ng/ul

RT: 21.69 min Scan# 3208

Delta R.T. 0.01 min

Lab File: BG021921.D

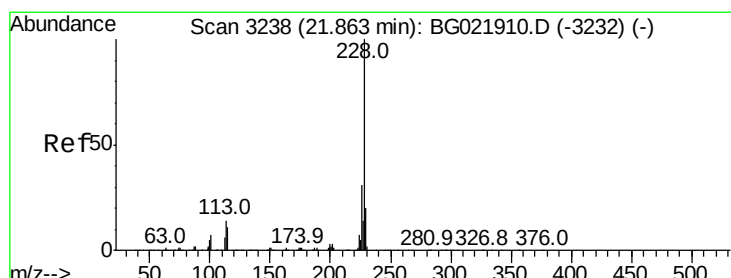
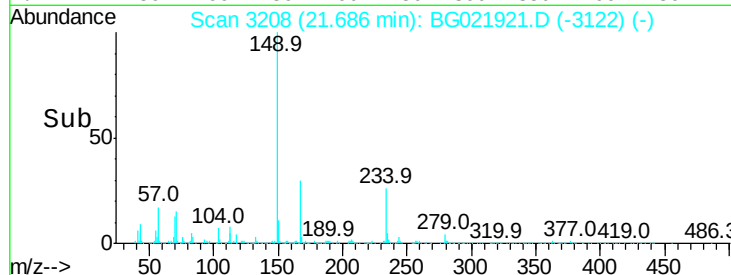
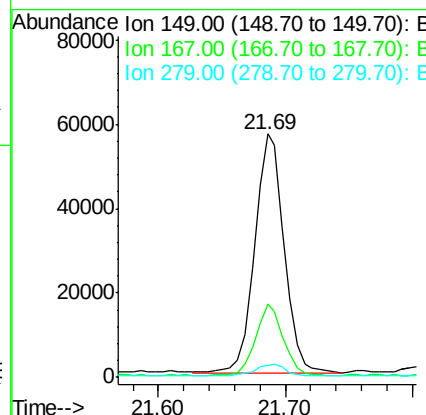
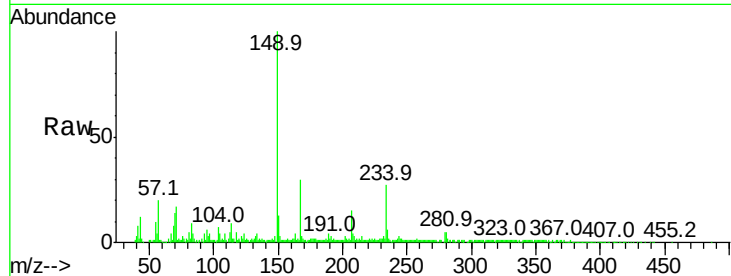
Acq: 17 May 2016 00:45

Instrument :
BNA_G
ClientSampleId :
D9XF0MSD

Tot Ion	Ratio	Lower	Upper
149	100		
167	30.3	20.5	30.7
279	4.9	3.7	5.5

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#83

Chrysene

Concen: 20.25 ng/ul

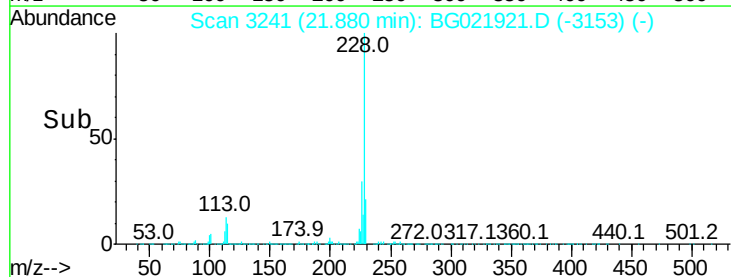
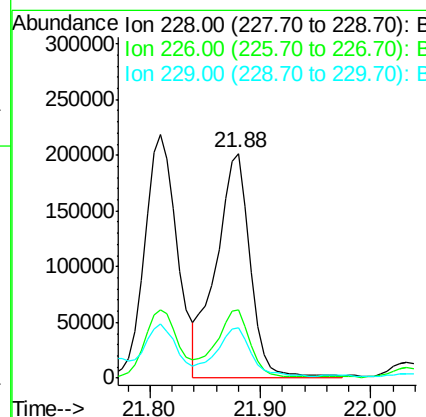
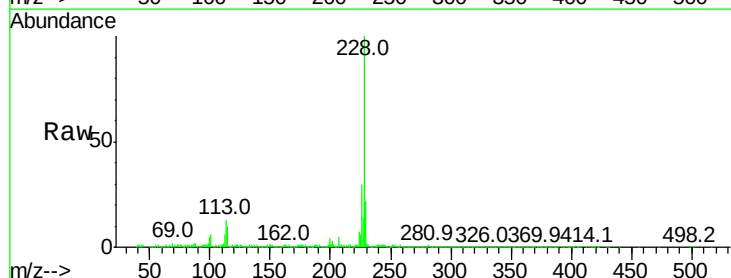
RT: 21.88 min Scan# 3241

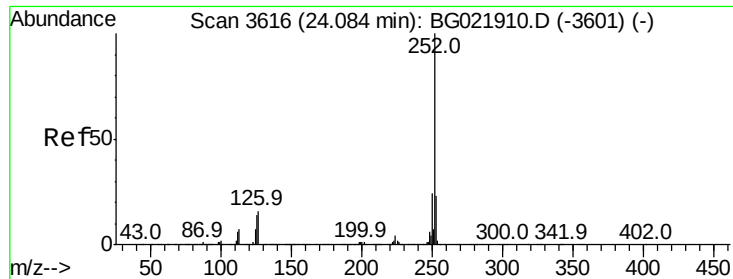
Delta R.T. 0.02 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.4	35.2
229	22.4	16.2	24.2





#86

Benzo(b)fluoranthene

Concen: 26.32 ng/ul

RT: 24.11 min Scan# 3621

Delta R.T. 0.03 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Instrument :

BNA_G

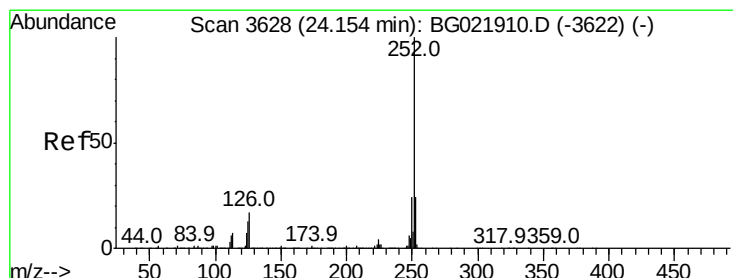
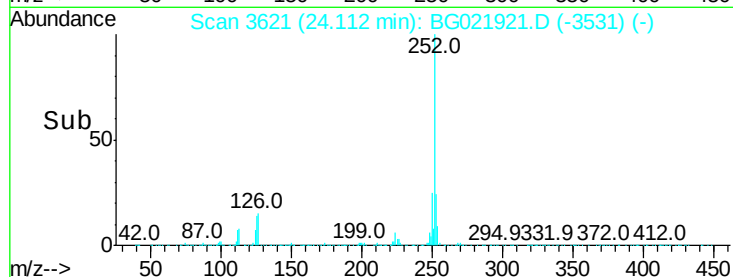
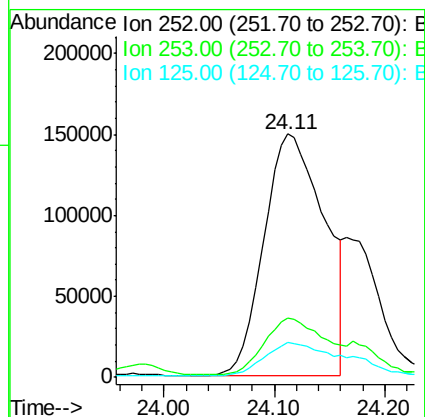
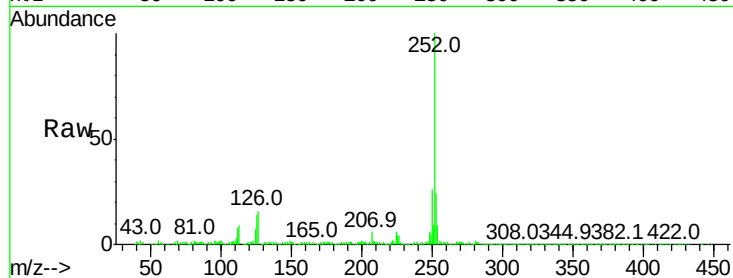
ClientSampleId :

D9XF0MSD

Tot Ion	Ratio	Resp	Lower	Upper
252	100	570025		
253	24.3	18.1	27.1	
125	14.3	7.6	11.4	

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#87

Benzo(k)fluoranthene

Concen: 8.63 ng/ul m

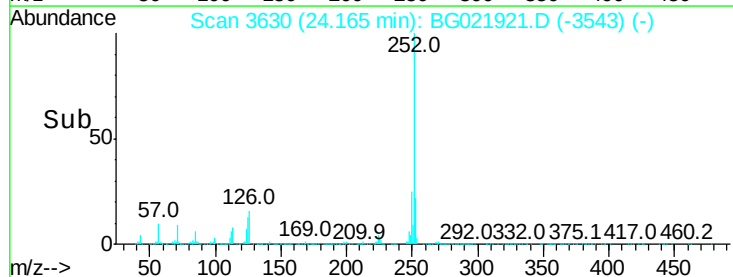
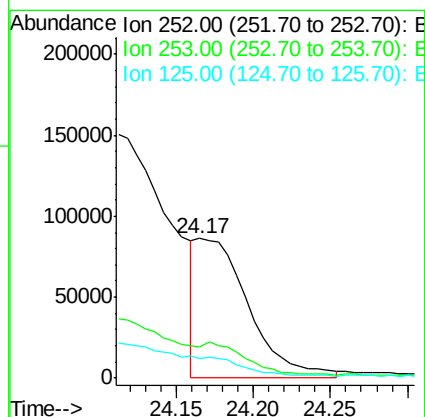
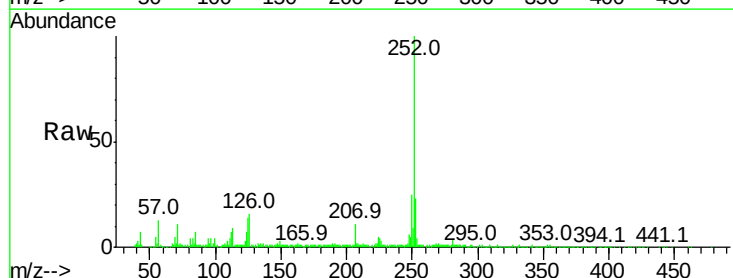
RT: 24.17 min Scan# 3630

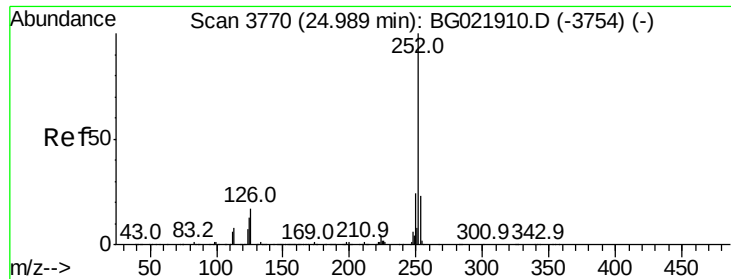
Delta R.T. 0.01 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	200101		
253	22.5	17.8	26.8	
125	13.9	7.7	11.5	





#89

Benzo(a)pyrene

Concen: 16.42 ng/ul

RT: 25.02 min Scan# 3776

Delta R.T. 0.03 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Instrument :

BNA_G

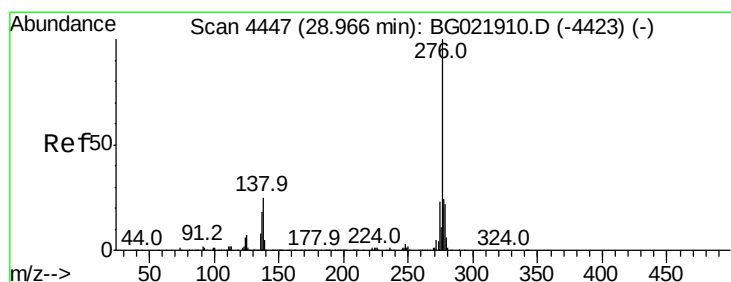
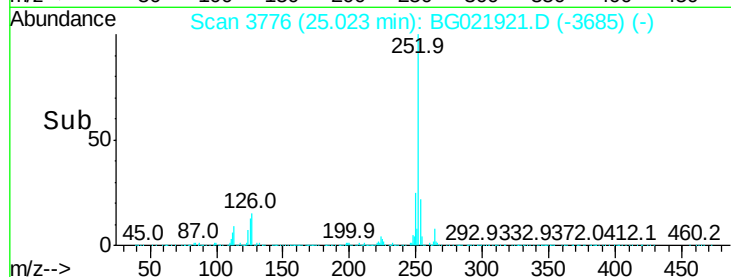
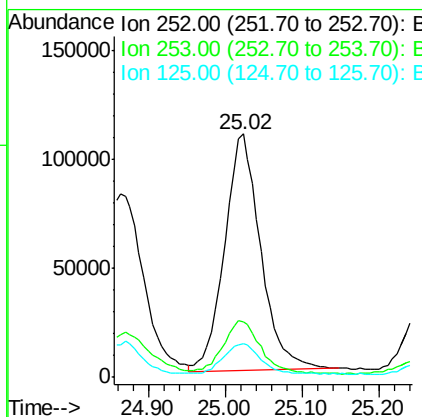
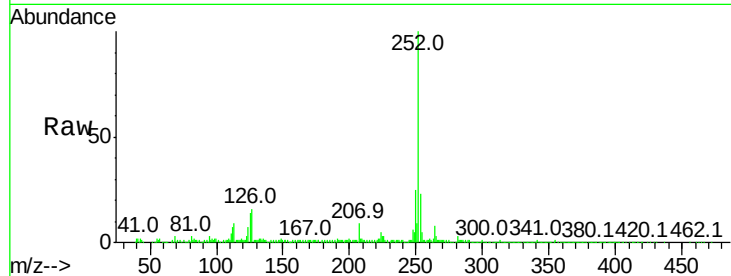
ClientSampleId :

D9XF0MSD

Tot Ion:	252	Resp:	354062
Ion Ratio	Lower	Upper	
252	100		
253	22.7	17.4	26.0
125	13.9	8.2	12.2#

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#90

Indeno(1,2,3-cd)pyrene

Concen: 7.02 ng/ul m

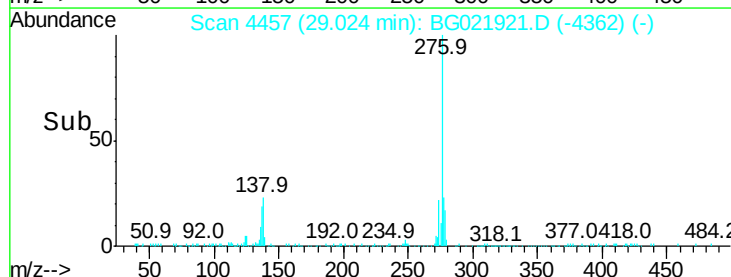
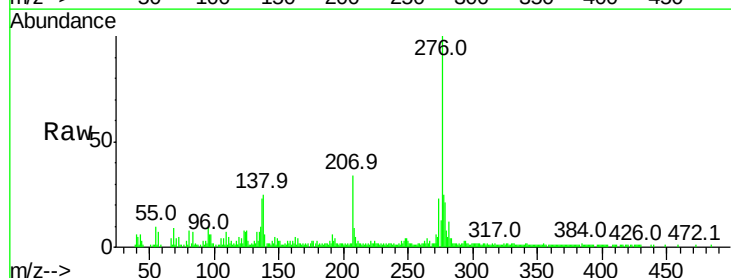
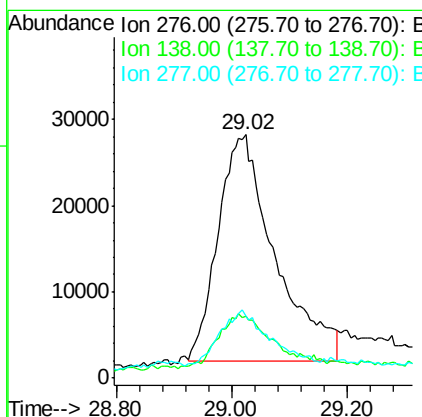
RT: 29.02 min Scan# 4457

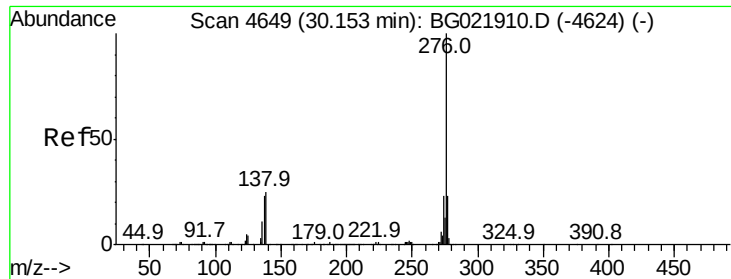
Delta R.T. 0.06 min

Lab File: BG021921.D

Acq: 17 May 2016 00:45

Tgt Ion:	276	Resp:	179441
Ion Ratio	Lower	Upper	
276	100		
138	25.3	15.8	23.6#
277	25.3	19.0	28.6





#92
 Benzo(a,h,i)perylene
 Concen: 6.46 ng/ul m
 RT: 30.21 min Scan# 4659
 Delta R.T. 0.06 min
 Lab File: BG021921.D
 Acq: 17 May 2016 00:45

Instrument :
 BNA_G
 ClientSampleId :
 D9XF0MSD

Tot Ion	Ratio	Lower	Upper
276	100		
138	25.6	13.9	20.9#
277	25.1	19.8	29.6

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