

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG071515\
 Data File : BG017909.D
 Acq On : 16 Jul 2015 7:09
 Operator : TP/UM
 Sample : MDL-07-S-ML
 Misc : MDL-SOIL-SVOC-8PPM-MED LEVEL
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 MDL-07-S-ML

Manual Integrations
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 7/16/2015 4:38:31 PM

Quant Time: Jul 16 07:48:10 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG071415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Jul 16 03:39:16 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	85445	20.00	ng/ul	0.00
18) Naphthalene-d8	10.36	136	390690	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.24	164	237396	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.00	188	508625	20.00	ng/ul	0.00
77) Chrysene-d12	21.20	240	505823	20.00	ng/ul	0.00
85) Perylene-d12	23.41	264	475717	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.11	96	12552	5.26	ng/uL	0.00
5) Phenol-d5	6.76	99	213490	28.96	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	129706	25.75	ng/ul	0.00
9) 2-Chlorophenol-d4	7.12	132	186518	32.59	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	177487	31.42	ng/ul	0.00
19) Nitrobenzene-d5	8.74	128	92211	30.25	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	86394	37.75	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	158923	33.84	ng/ul	0.00
29) 4-Chloroaniline-d4	10.50	131	268118	39.66	ng/ul	0.00
43) Dimethylphthalate-d6	13.66	166	556536	33.62	ng/ul	0.00
46) Acenaphthylene-d8	13.93	160	709559	32.99	ng/ul	0.00
51) 4-Nitrophenol-d4	14.45	143	92737	29.69	ng/ul	0.00
57) Fluorene-d10	15.24	176	524526	34.07	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.36	200	52027	21.86	ng/ul	0.00
70) Anthracene-d10	17.09	188	765784	33.22	ng/ul	0.00
78) Pyrene-d10	19.40	212	838566	35.20	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.27	264	755496	32.40	ng/ul	0.00

Target Compounds

					Qvalue
2) 1,4-Dioxane	3.15	88	2490	0.97 ng/uL#	85
4) Benzaldehyde	6.73	77	25054	5.81 ng/ul	89
6) Phenol	6.79	94	38884	4.81 ng/ul#	90
8) Bis(2-Chloroethyl)ether	7.02	93	30831	4.68 ng/ul#	95
10) 2-Chlorophenol	7.15	128	31946	5.53 ng/ul#	88
11) 2-Methylphenol	8.03	108	27657	4.71 ng/ul	100
12) 2,2'-oxybis(1-Chloropropan	8.12	45	39336	4.11 ng/ul	96
14) Acetophenone	8.40	105	48332	5.14 ng/ul	87
15) N-Nitroso-di-n-propylamine	8.39	70	24930	4.30 ng/ul#	88
16) 4-Methylphenol	8.35	108	31224	4.88 ng/ul	89
17) Hexachloroethane	8.65	117	13657	4.95 ng/ul#	80
20) Nitrobenzene	8.78	77	34132	4.24 ng/ul#	88
21) Isophorone	9.29	82	67763	4.50 ng/ul	100
23) 2-Nitrophenol	9.49	139	16316	6.00 ng/ul#	84
24) 2,4-Dimethylphenol	9.55	107	33964	4.89 ng/ul	98
25) Bis(2-Chloroethoxy)methane	9.79	93	40673	4.81 ng/ul	95
27) 2,4-Dichlorophenol	10.01	162	27829	5.88 ng/ul#	90
28) Naphthalene	10.42	128	107943	5.34 ng/ul	99
30) 4-Chloroaniline	10.53	127	41231	5.87 ng/ul	96
31) Hexachlorobutadiene	10.70	225	17027	5.71 ng/ul#	86
32) Caprolactam	11.30	113	10357m	2.98 ng/ul	
33) 4-Chloro-3-methylphenol	11.66	107	29230	5.03 ng/ul#	85
34) 2-Methylnaphthalene	12.04	142	76193	5.56 ng/ul	94

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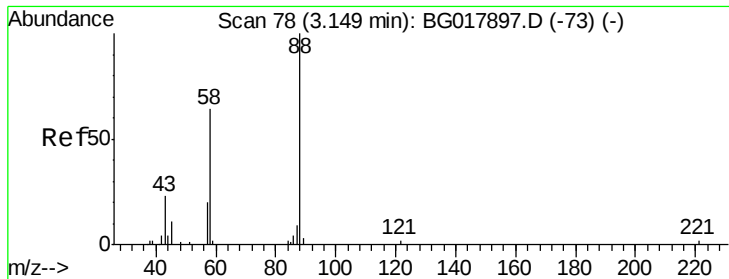
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) 1,2,4,5-Tetrachlorobenzene	12.41	216	34400	5.51	ng/ul#	89
37) Hexachlorocyclopentadiene	12.40	237	14177	4.37	ng/ul#	96
38) 2,4,6-Trichlorophenol	12.66	196	16692m	4.93	ng/ul	
39) 2,4,5-Trichlorophenol	12.73	196	19640	5.31	ng/ul	92
40) 1,1'-Biphenyl	13.07	154	99626	5.42	ng/ul#	91
41) 2-Chloronaphthalene	13.11	162	77017	5.46	ng/ul	91
42) 2-Nitroaniline	13.31	65	16213	3.92	ng/ul	95
44) Dimethylphthalate	13.71	163	101142	5.82	ng/ul	100
45) 2,6-Dinitrotoluene	13.82	165	15674	4.95	ng/ul	90
47) Acenaphthylene	13.96	152	129212	5.43	ng/ul	97
48) 3-Nitroaniline	14.15	138	16767	4.64	ng/ul#	93
49) Acenaphthene	14.31	153	85171	5.32	ng/ul	97
50) 2,4-Dinitrophenol	14.36	184	1804	1.35	ng/ul#	73
52) 4-Nitrophenol	14.46	109	11844	4.47	ng/ul	92
53) Dibenzofuran	14.64	168	117522	5.58	ng/ul	97
54) 2,4-Dinitrotoluene	14.61	165	22691	5.00	ng/ul#	68
55) 2,3,4,6-Tetrachlorophenol	14.87	232	15487	5.43	ng/ul#	84
56) Diethylphthalate	15.08	149	99918	5.58	ng/ul	96
58) Fluorene	15.29	166	101368	5.54	ng/ul	99
59) 4-Chlorophenyl-phenylether	15.30	204	48092	5.66	ng/ul	94
60) 4-Nitroaniline	15.32	138	20495	4.77	ng/ul	94
63) 4,6-Dinitro-2-methylphenol	15.38	198	10485	3.95	ng/ul	97
64) N-Nitrosodiphenylamine	15.51	169	81692	5.27	ng/ul	98
65) 4-Bromophenyl-phenylether	16.19	248	26697	5.47	ng/ul	95
66) Hexachlorobenzene	16.30	284	30604	5.78	ng/ul#	89
67) Atrazine	16.47	200	26741	5.03	ng/ul	95
68) Pentachlorophenol	16.65	266	8146	3.10	ng/ul	97
69) Phenanthrene	17.04	178	154543	5.50	ng/ul	98
71) Anthracene	17.13	178	159266	5.54	ng/ul	99
72) 1,2,3,4-Tetrachlorobenzene	13.03	216	32795	5.07	ng/uL	93
73) Pentachlorobenzene	14.56	250	37666	6.07	ng/uL	99
74) Carbazole	17.40	167	142025	5.66	ng/ul	98
75) Di-n-butylphthalate	17.98	149	169077	5.37	ng/ul#	96
76) Fluoranthene	19.07	202	168688	5.91	ng/ul	95
79) Pyrene	19.43	202	185956	5.97	ng/ul	96
80) Butylbenzylphthalate	20.35	149	61890	4.92	ng/ul#	84
81) 3,3'-Dichlorobenzidine	21.12	252	36874	4.86	ng/ul	99
82) Benzo(a)anthracene	21.18	228	162842	5.83	ng/ul	95
83) Bis(2-ethylhexyl)phthalate	21.13	149	82667	4.74	ng/ul	96
84) Chrysene	21.23	228	156481	5.84	ng/ul	98
86) Di-n-octyl phthalate	22.00	149	123980	4.45	ng/ul	100
87) Benzo(b)fluoranthene	22.74	252	148469	5.66	ng/ul	97
88) Benzo(k)fluoranthene	22.79	252	148624	5.49	ng/ul#	95
90) Benzo(a)pyrene	23.31	252	150253	5.70	ng/ul	96
91) Indeno(1,2,3-cd)pyrene	25.65	276	153972	5.46	ng/ul	93
92) Dibenzo(a,h)anthracene	25.67	278	129298	5.39	ng/ul	94
93) Benzo(g,h,i)perylene	26.34	276	131508	5.57	ng/ul	96

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



#2

1,4-Dioxane

Concen: 0.97 ng/uL

RT: 3.15 min Scan# 79

Delta R.T. 0.01 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

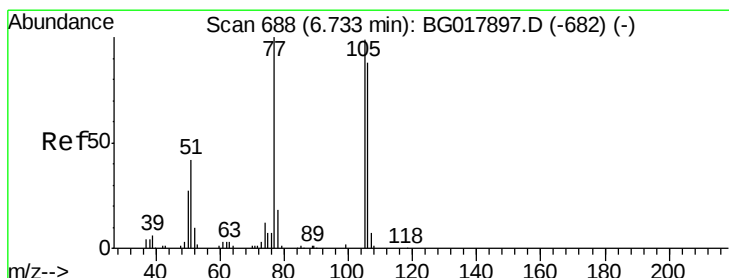
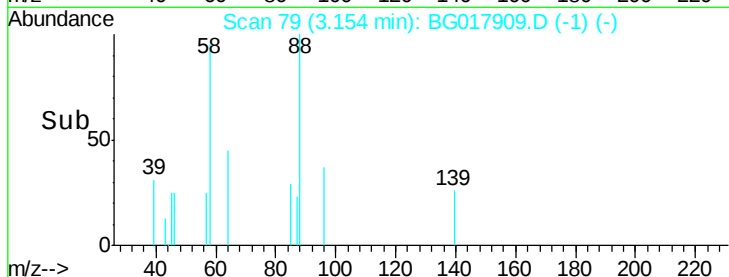
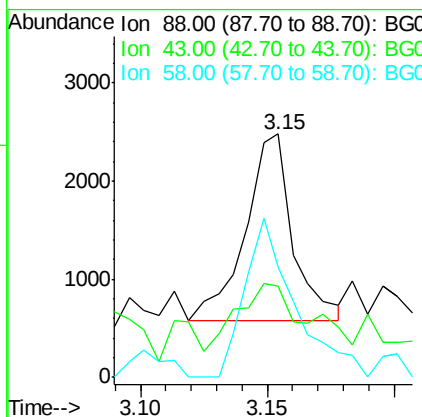
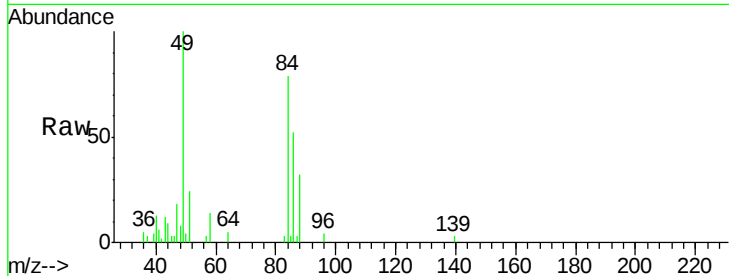
ClientSampleId :

MDL-07-S-ML

Tgt Ion:	88	Resp:	2490
Ion Ratio	Lower	Upper	
88	100		
43	42.7	26.4	39.6#
58	89.6	61.5	92.3

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#4

Benzaldehyde

Concen: 5.81 ng/uL

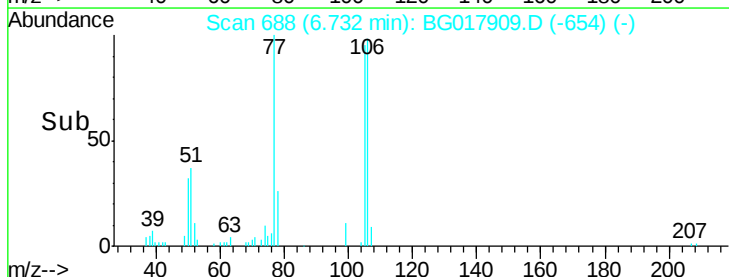
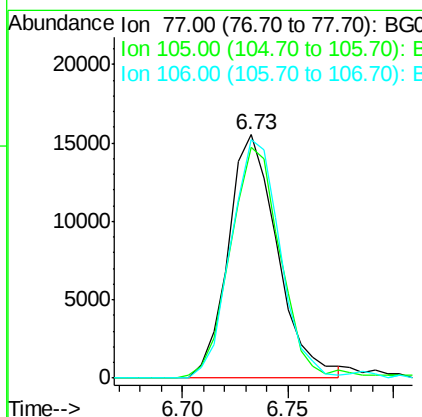
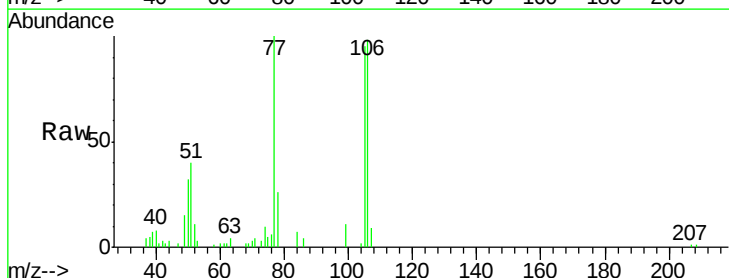
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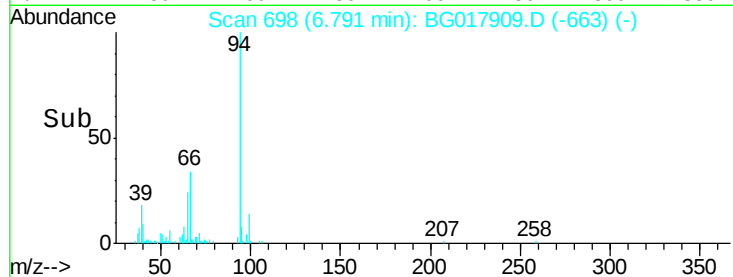
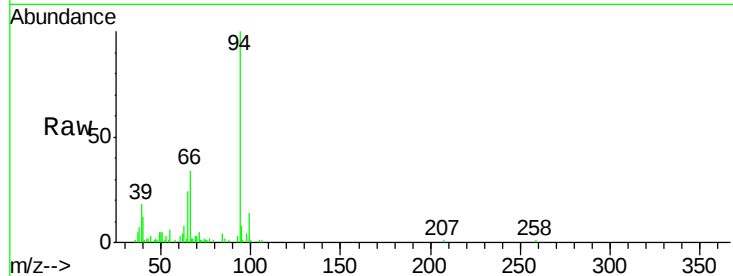
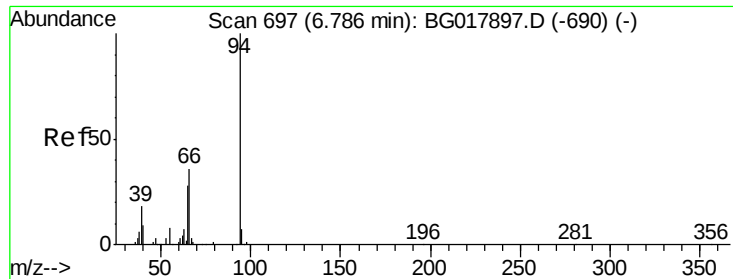
Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion:	77	Resp:	25054
Ion Ratio	Lower	Upper	
77	100		
105	94.6	69.1	103.7
106	98.1	69.3	103.9





#6

Phenol

Concen: 4.81 ng/ul

RT: 6.79 min Scan# 698

Delta R.T. 0.01 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp	Lower	Upper
94	100	38884		
65	24.3	25.0	37.4#	
66	34.2	31.7	47.5	

Instrument :

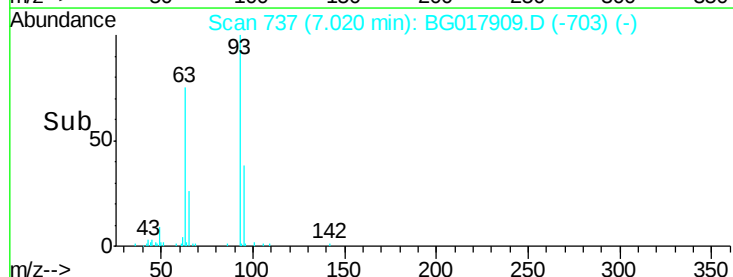
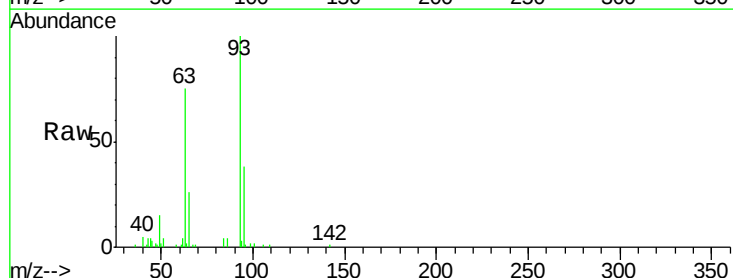
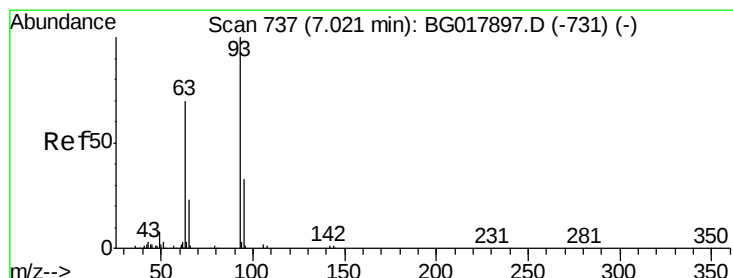
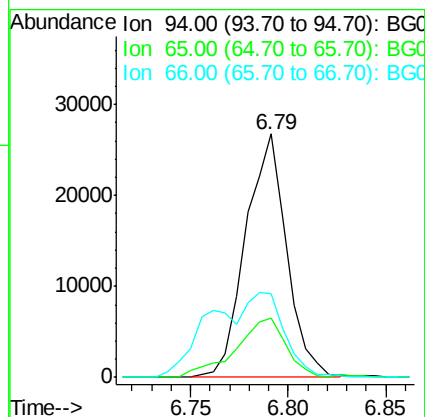
BNA_G

ClientSampleId :

MDL-07-S-ML

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#8

Bis(2-Chloroethyl)ether

Concen: 4.68 ng/ul

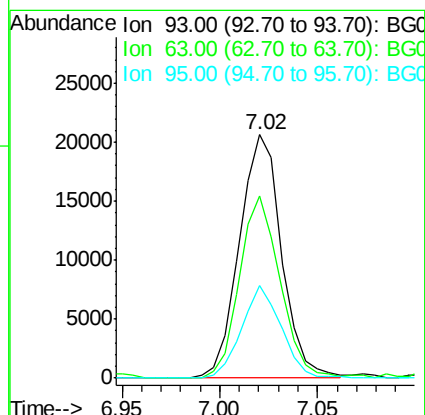
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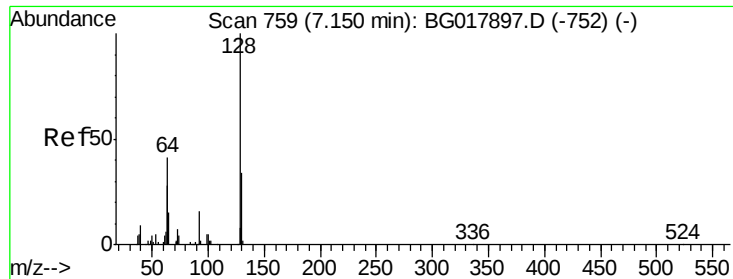
Delta R.T. -0.00 min

Lab File: BG017909.D

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Tgt Ion	Ratio	Resp	Lower	Upper
93	100	30831		
63	75.0	59.8	89.8	
95	37.8	23.4	35.2#	





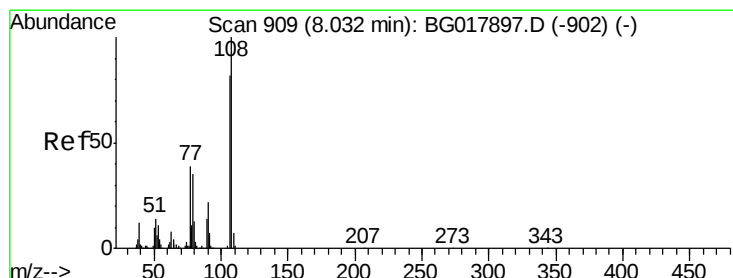
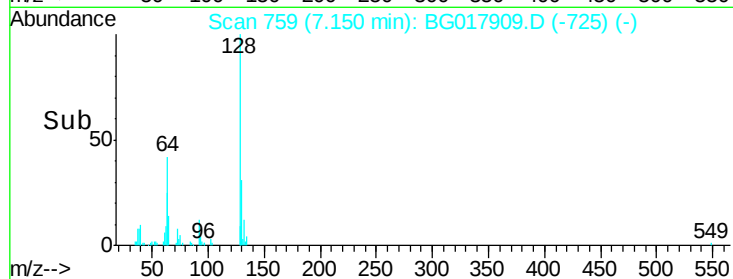
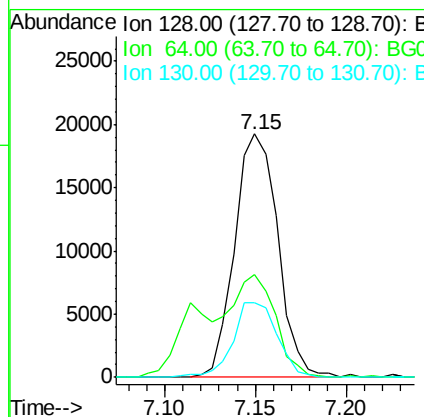
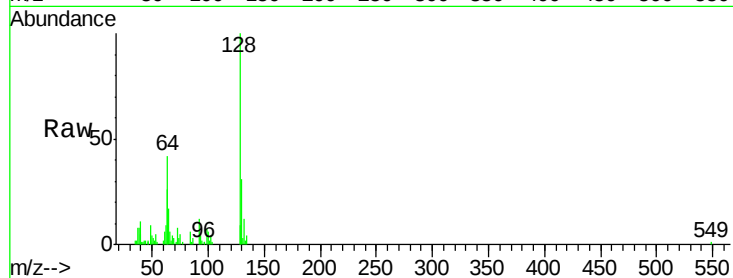
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2-Chlorophenol
Concen: 5.53 ng/ul
RT: 7.15 min Scan# 759
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	31946		
64	42.1	44.0	66.0	
130	30.9	25.9	38.9	

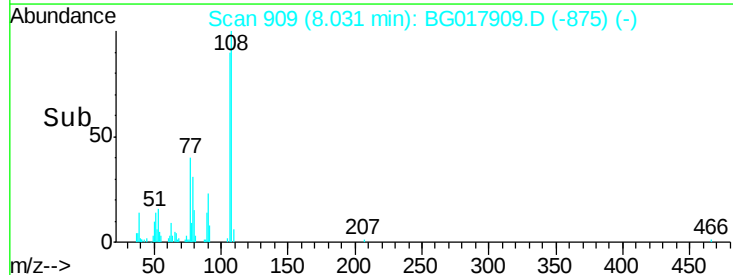
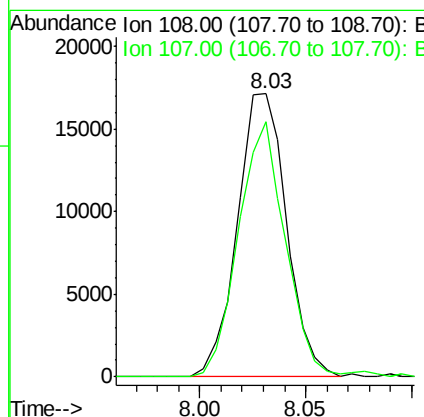
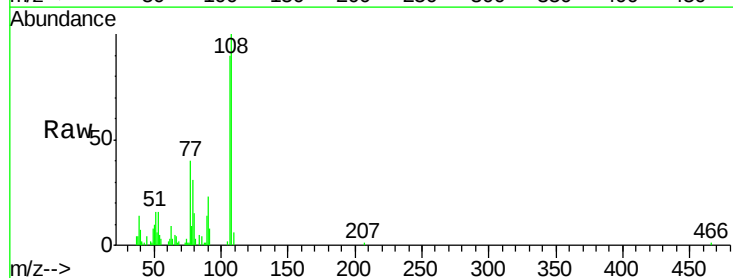
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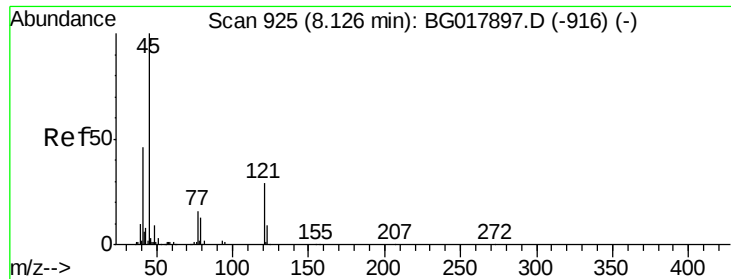
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#11
2-Methylphenol
Concen: 4.71 ng/ul
RT: 8.03 min Scan# 909
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp	Lower	Upper
108	100	27657		
107	90.0	72.1	108.1	





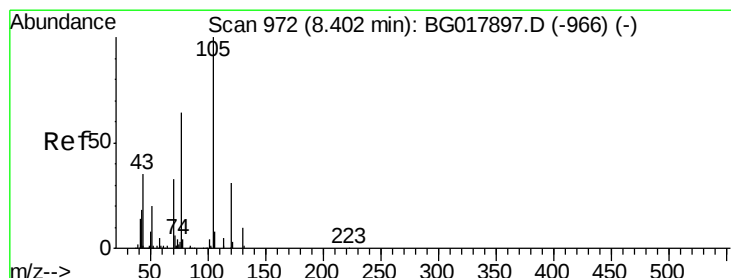
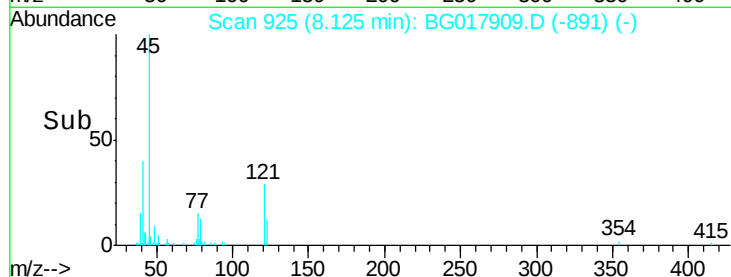
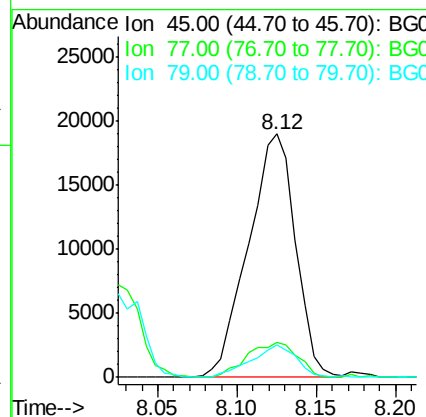
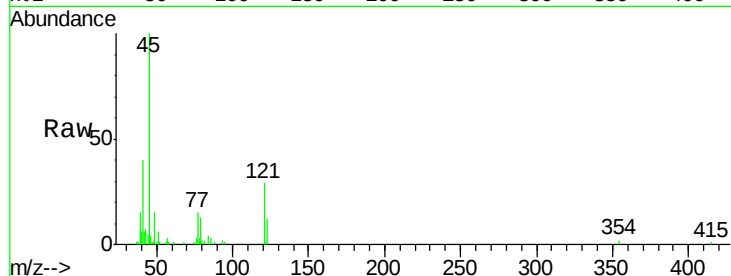
#12
 2,2'-oxybis(1-chloropropane)
 Concen: 4.11 ng/ul
 RT: 8.12 min Scan# 925
 Delta R.T. -0.00 min
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Tgt Ion	Ratio	Resp Lower	Upper
45	100		
77	14.5	12.6	19.0
79	13.4	9.3	13.9

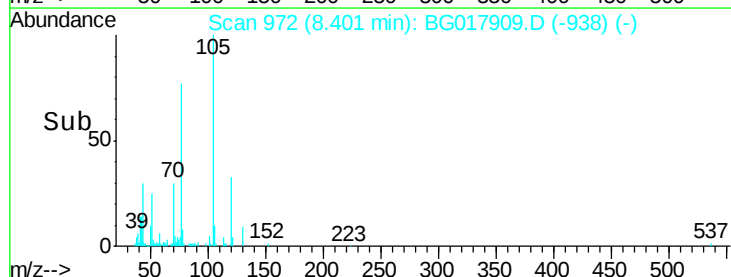
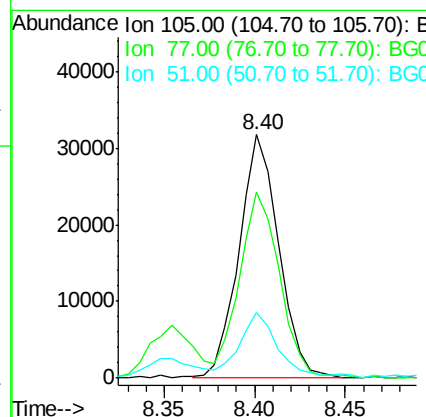
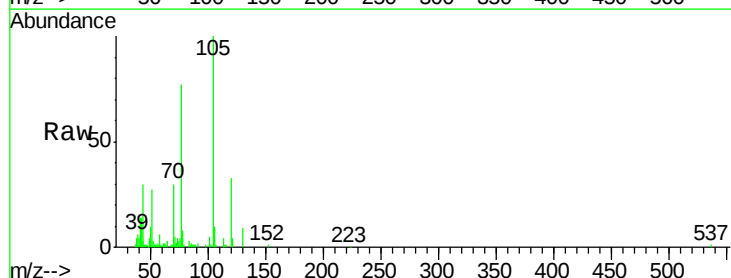
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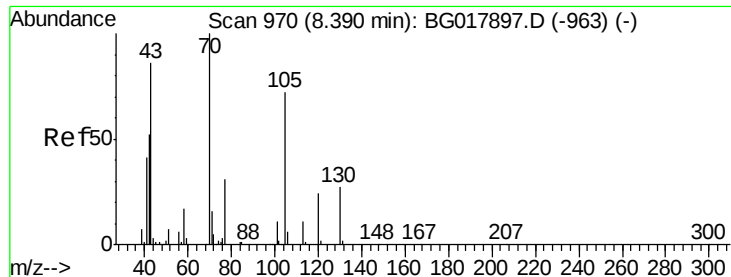
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#14
 Acetophenone
 Concen: 5.14 ng/ul
 RT: 8.40 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp Lower	Upper
105	100		
77	76.6	71.9	107.9
51	26.8	25.0	37.6





#15

N-Nitroso-di-n-propylamine

Concen: 4.30 ng/ul

RT: 8.39 min Scan# 970

Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

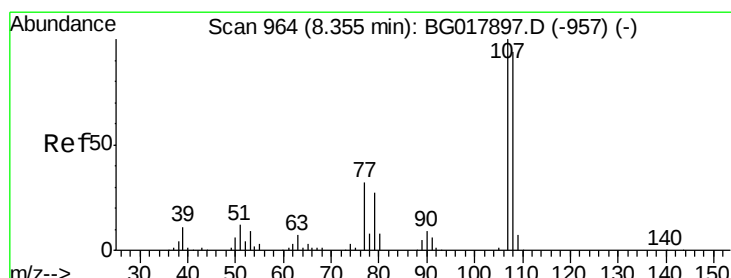
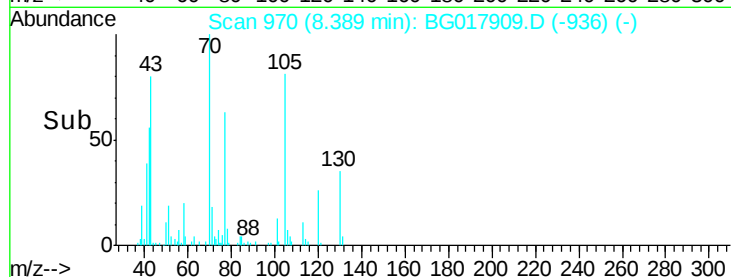
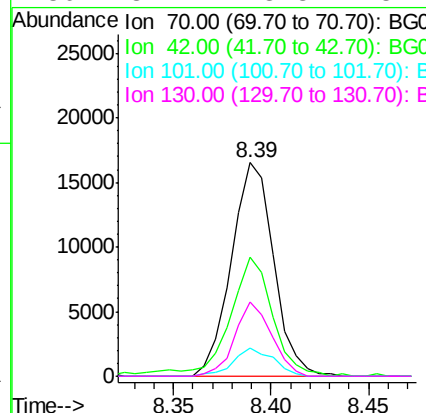
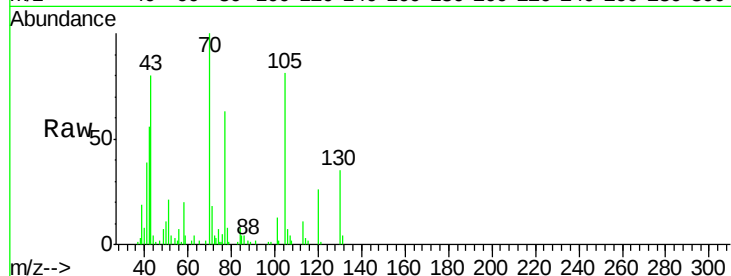
ClientSampled :

MDL-07-S-ML

Tgt Ion:	70	Resp:	24930
Ion Ratio	Lower	Upper	
70	100		
42	55.7	51.1	76.7
101	13.1	9.8	14.8
130	34.7	18.8	28.2#

Manual Integrations
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#16

4-Methylphenol

Concen: 4.88 ng/ul

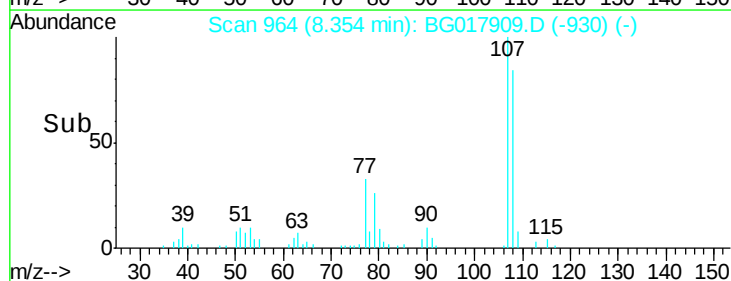
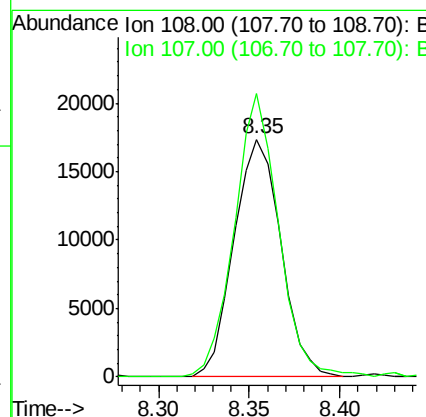
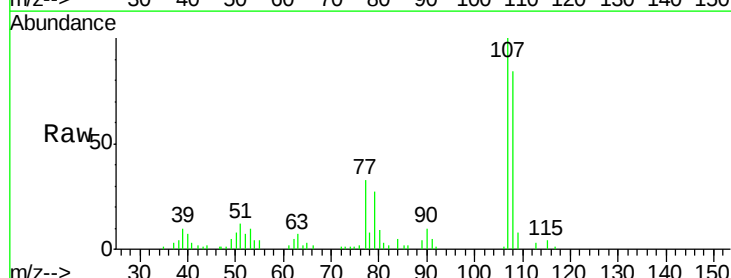
RT: 8.35 min Scan# 964

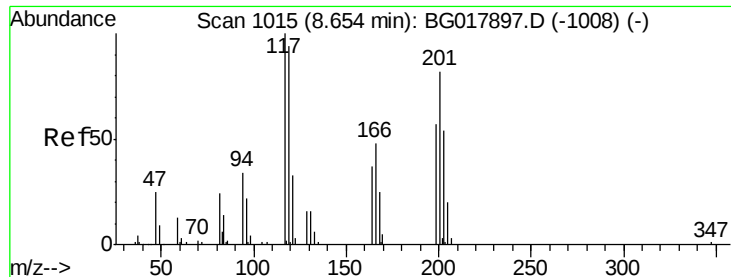
Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion:	108	Resp:	31224
Ion Ratio	Lower	Upper	
108	100		
107	119.1	85.8	128.6





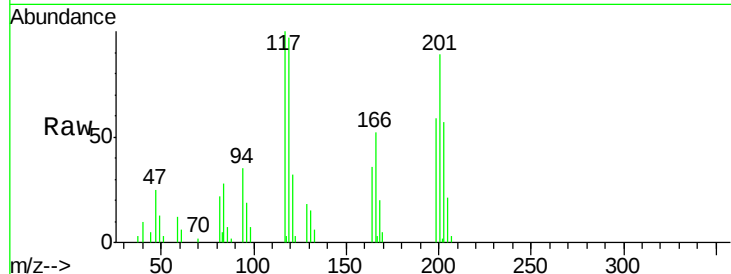
#17
Hexachloroethane
Concen: 4.95 ng/ul
RT: 8.65 min Scan# 1015
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp Lower	Upper
117	100		
201	89.4	57.8	86.8#
199	59.4	37.2	55.8#

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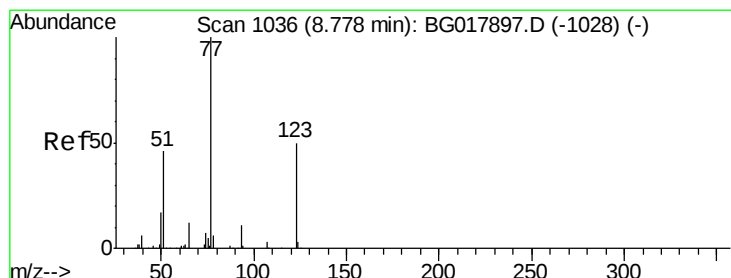
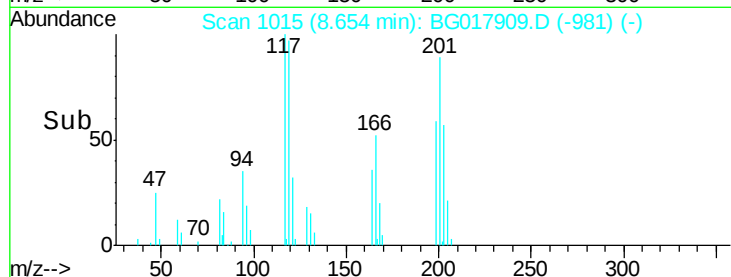
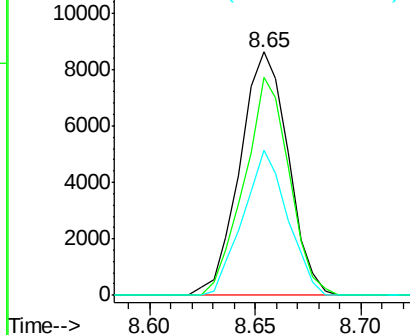


Abundance

Ion 117.00 (116.70 to 117.70): E

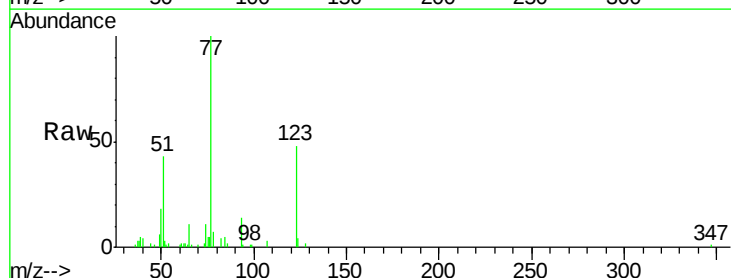
Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#20
Nitrobenzene
Concen: 4.24 ng/ul
RT: 8.78 min Scan# 1036
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp Lower	Upper
77	100		
123	48.2	32.0	48.0#
65	11.0	11.3	16.9#

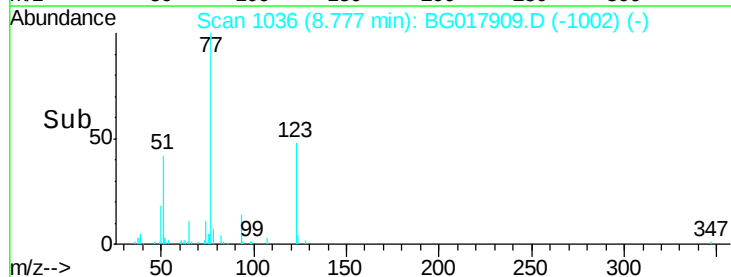
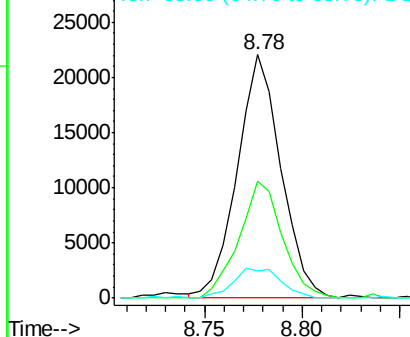


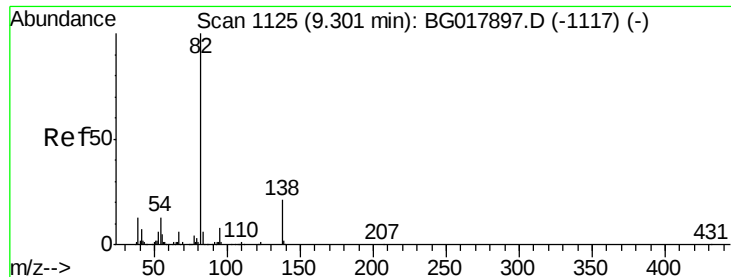
Abundance

Ion 77.00 (76.70 to 77.70): BGC

Ion 123.00 (122.70 to 123.70): E

Ion 65.00 (64.70 to 65.70): BGC





#21

Isophorone

Concen: 4.50 ng/ul

RT: 9.29 min Scan# 1124

Delta R.T. -0.01 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

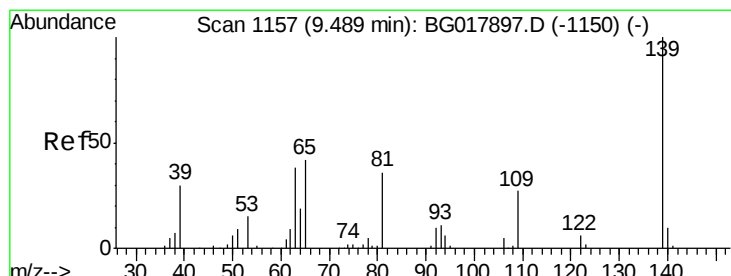
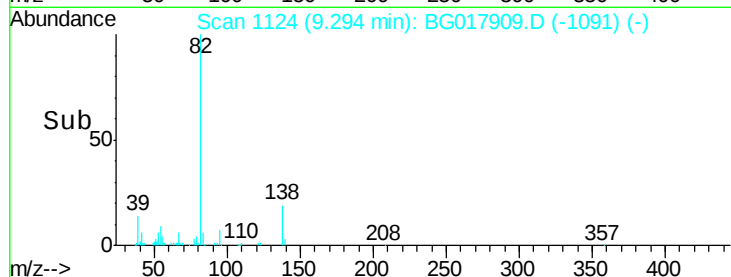
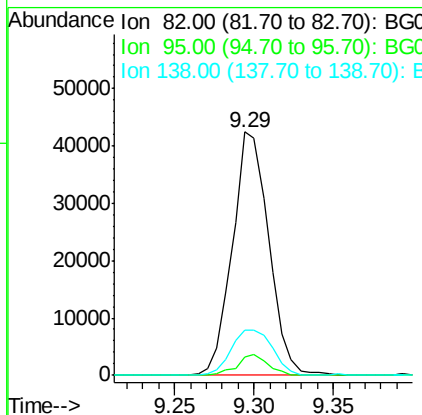
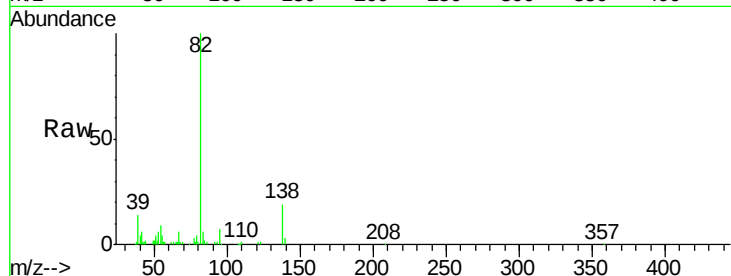
ClientSampleId :

MDL-07-S-ML

Tgt Ion:	82	Resp:	67763
Ion Ratio	Lower	Upper	
82	100		
95	7.3	5.9	8.9
138	18.6	14.7	22.1

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#23

2-Nitrophenol

Concen: 6.00 ng/ul

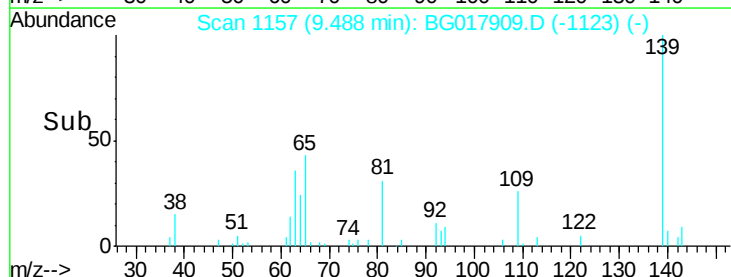
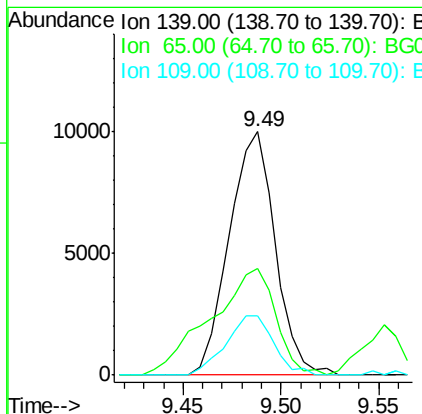
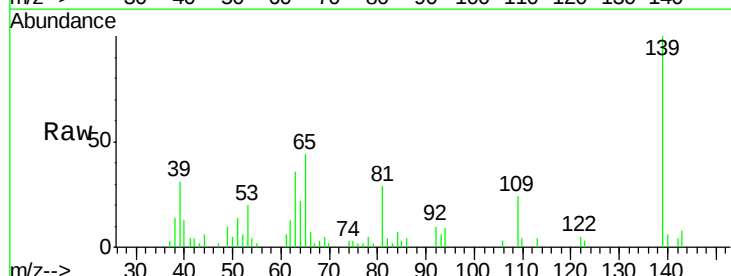
RT: 9.49 min Scan# 1157

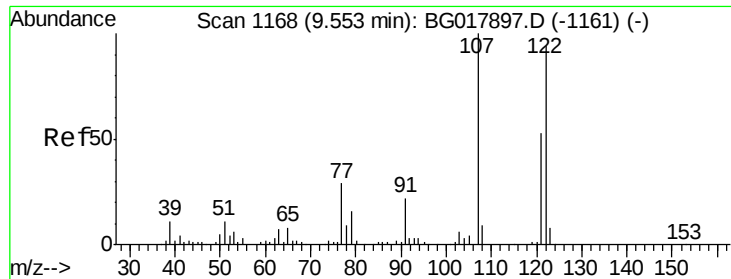
Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion:	139	Resp:	16316
Ion Ratio	Lower	Upper	
139	100		
65	44.1	46.1	69.1#
109	24.2	24.1	36.1





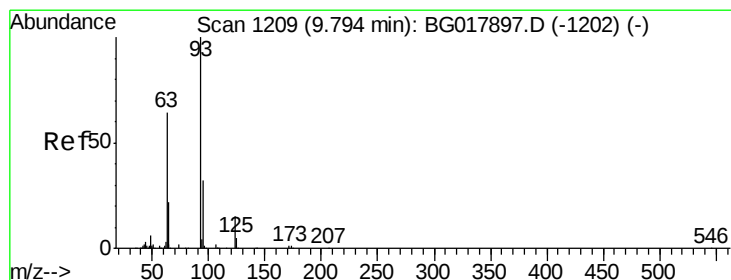
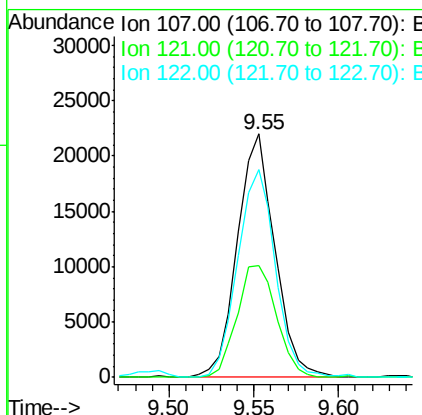
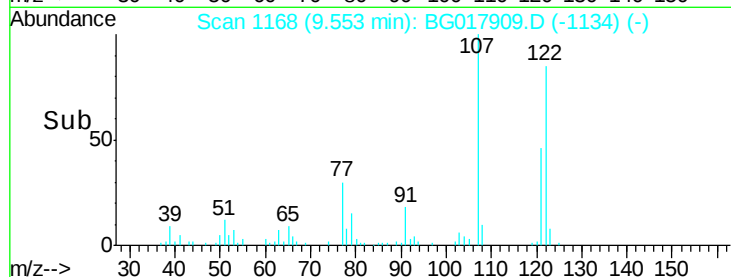
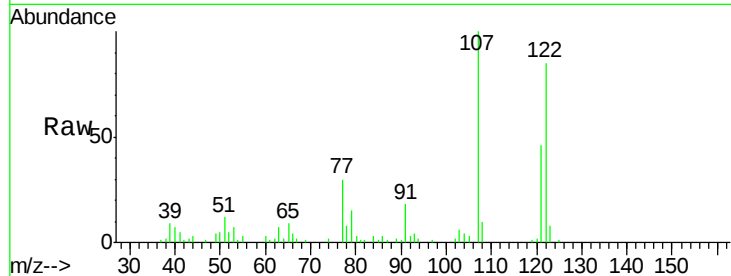
#24
 2,4-Dimethylphenol
 Concen: 4.89 ng/ul
 RT: 9.55 min Scan# 1168
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Instrument :
 BNA_G
 ClientSampleId :
 MDL-07-S-ML

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	33964		
121	46.1	38.3	57.5	
122	85.2	66.6	100.0	

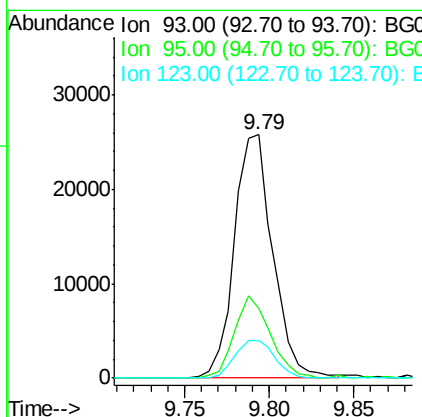
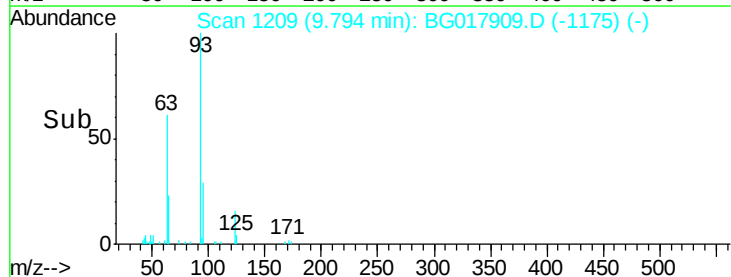
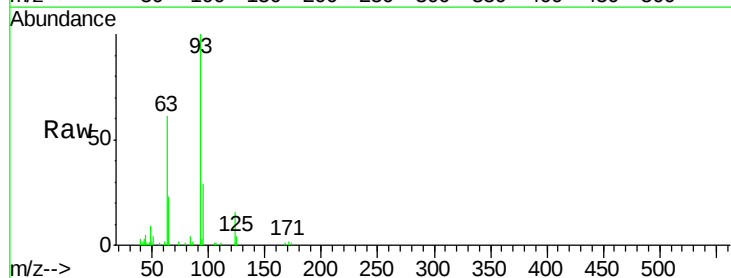
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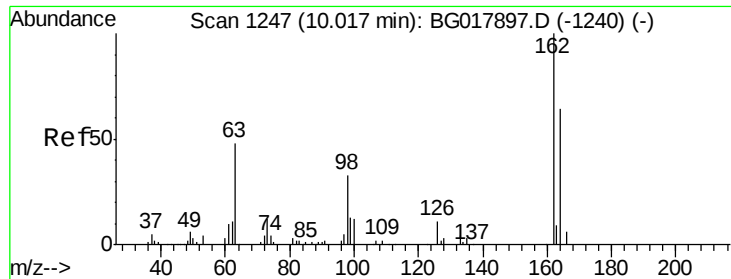
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#25
 Bis(2-Chloroethoxy)methane
 Concen: 4.81 ng/ul
 RT: 9.79 min Scan# 1209
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	40673		
95	28.5	26.0	39.0	
123	15.5	12.0	18.0	





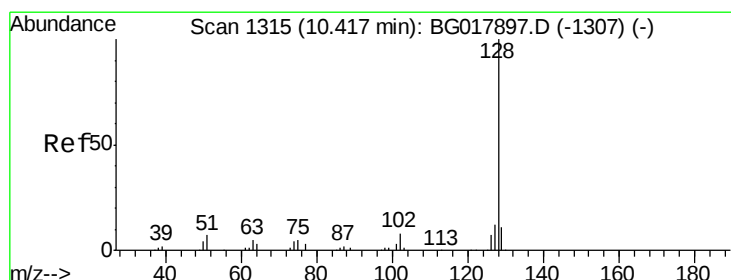
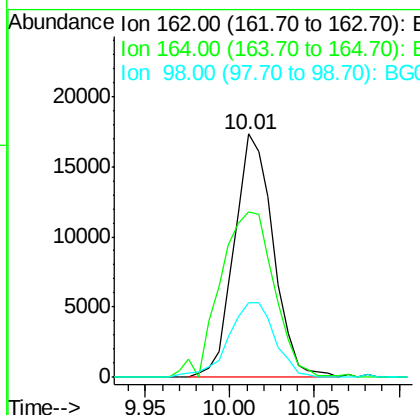
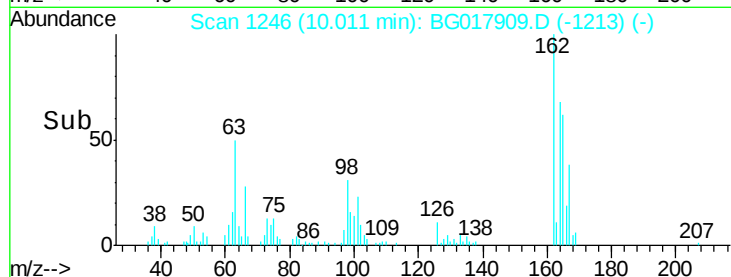
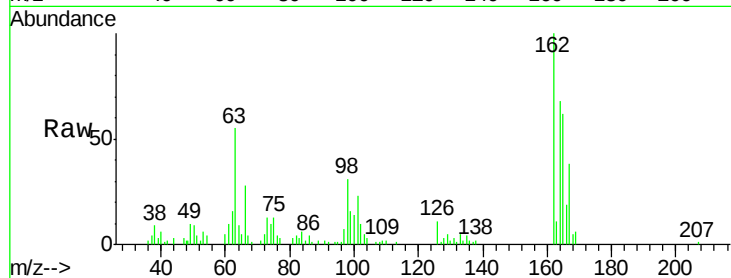
#27
2,4-Dichlorophenol
Concen: 5.88 ng/ul
RT: 10.01 min Scan# 1246
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp Lower	Resp Upper
162	100		
164	68.0	51.0	76.6
98	30.7	32.7	49.1#

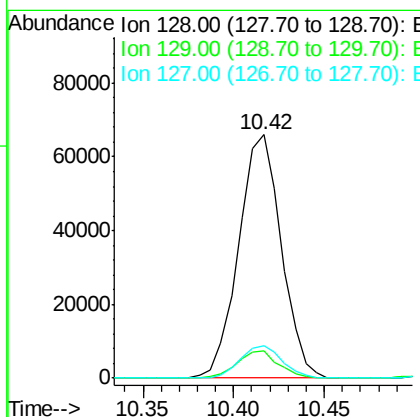
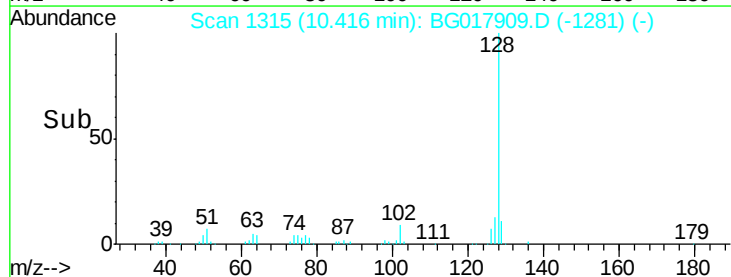
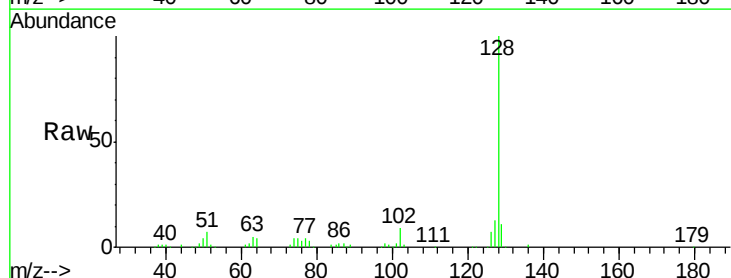
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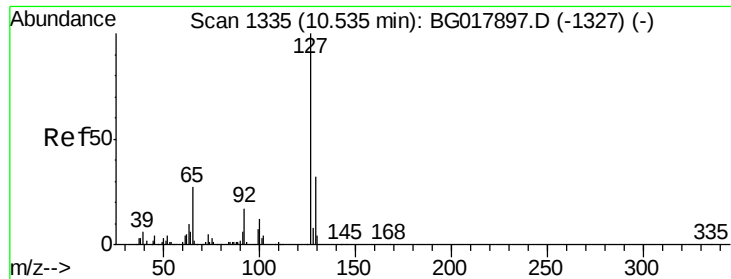
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#28
Naphthalene
Concen: 5.34 ng/ul
RT: 10.42 min Scan# 1315
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	11.3	9.1	13.7
127	13.1	11.0	16.6





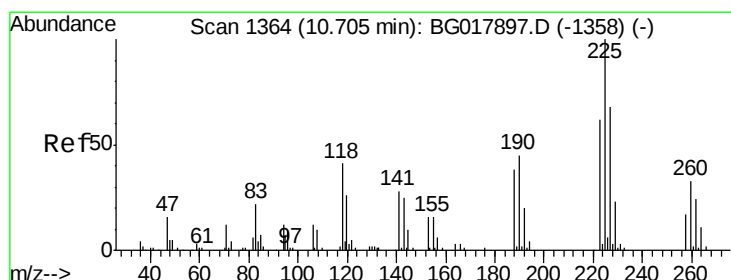
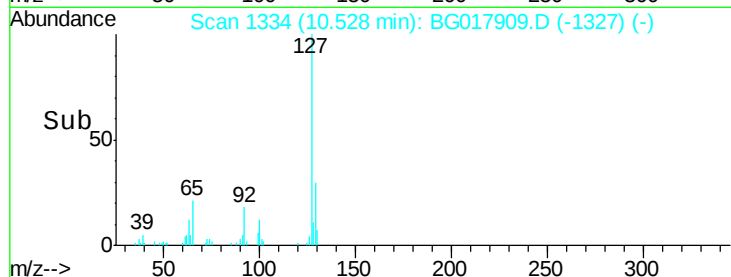
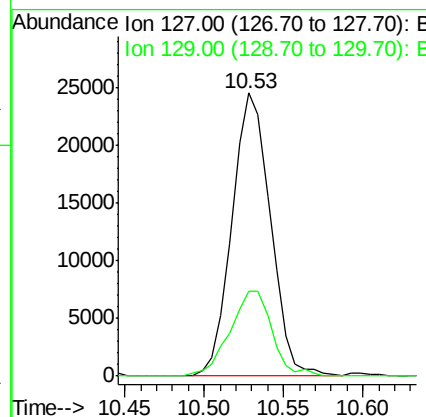
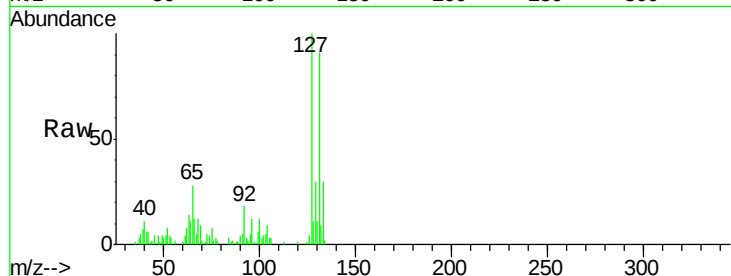
#30
4-Chloroaniline
Concen: 5.87 ng/ul
RT: 10.53 min Scan# 1334
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp	Lower	Upper
127	100	41231		
129	30.0	26.0	39.0	

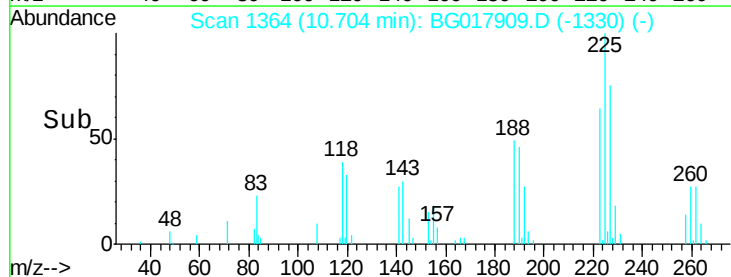
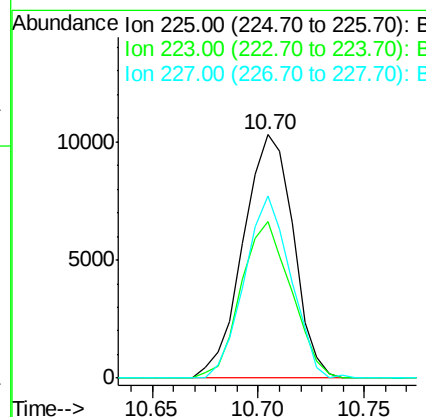
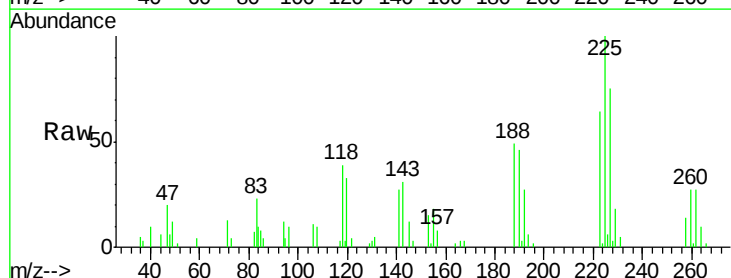
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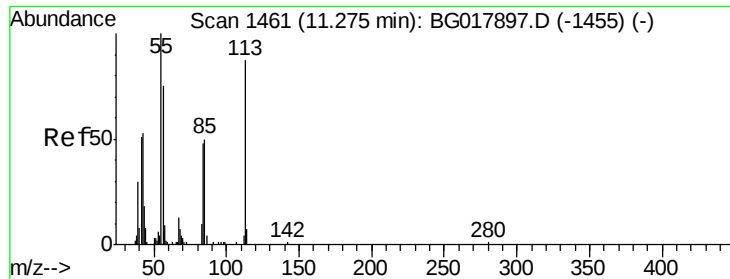
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#31
Hexachlorobutadiene
Concen: 5.71 ng/ul
RT: 10.70 min Scan# 1364
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	17027		
223	64.5	48.6	73.0	
227	74.9	46.1	69.1	





#32

Caprolactam

Concen: 2.98 ng/ul m

RT: 11.30 min Scan# 1466

Delta R.T. 0.03 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

ClientSampleId :

MDL-07-S-ML

Tgt Ion:113 Resp: 10357
Ion Ratio Lower Upper

113 100

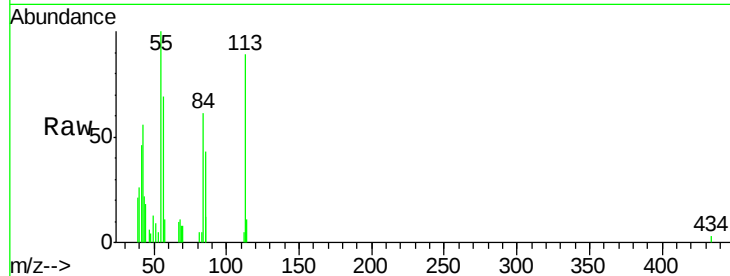
55 111.8 118.2 177.2#

56 77.1 89.8 134.6#

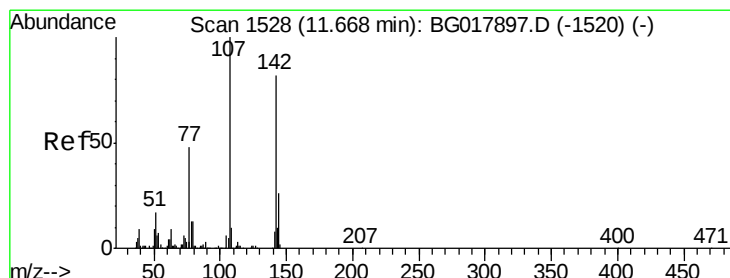
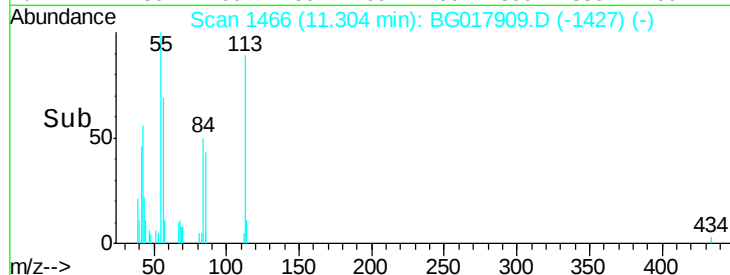
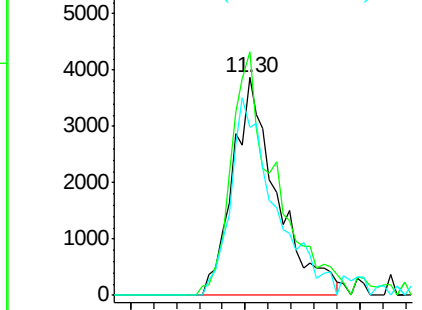
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Abundance Ion 113.00 (112.70 to 113.70): E
Ion 55.00 (54.70 to 55.70): BGO
Ion 56.00 (55.70 to 56.70): BGO



#33

4-Chloro-3-methylphenol

Concen: 5.03 ng/ul

RT: 11.66 min Scan# 1527

Delta R.T. -0.01 min

Lab File: BG017909.D

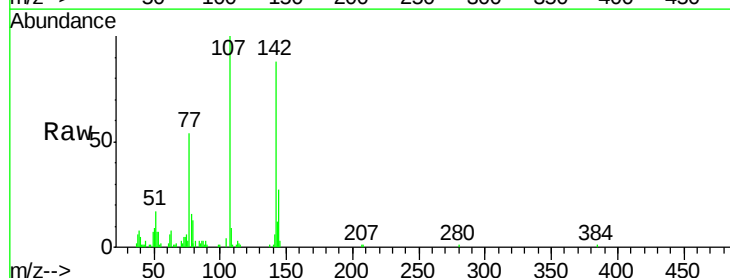
Acq: 16 Jul 2015 7:09

Tgt Ion:107 Resp: 29230
Ion Ratio Lower Upper

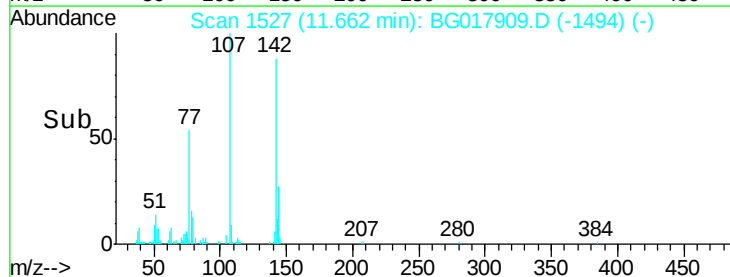
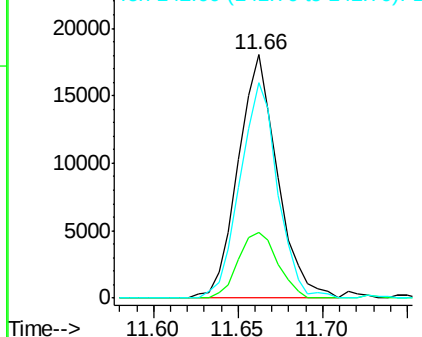
107 100

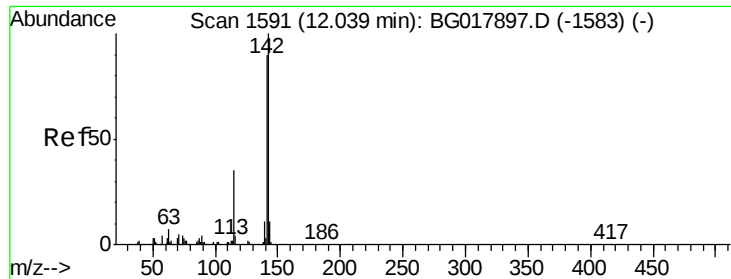
144 26.8 16.6 24.8#

142 88.3 59.8 89.6



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





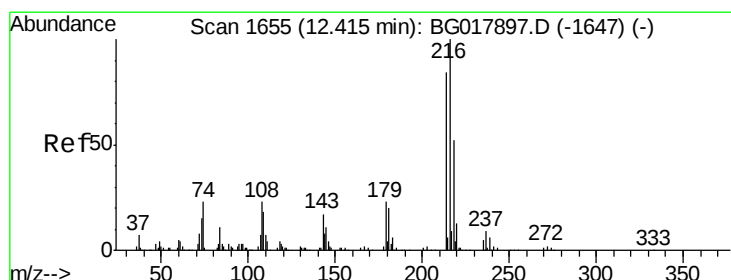
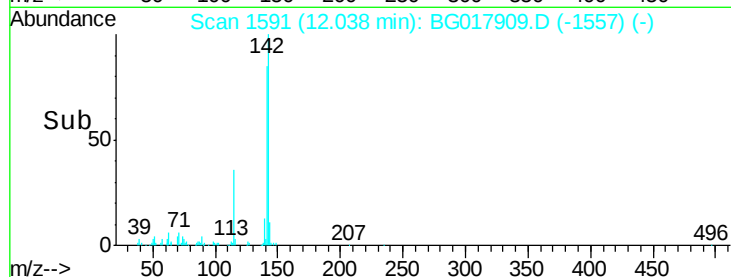
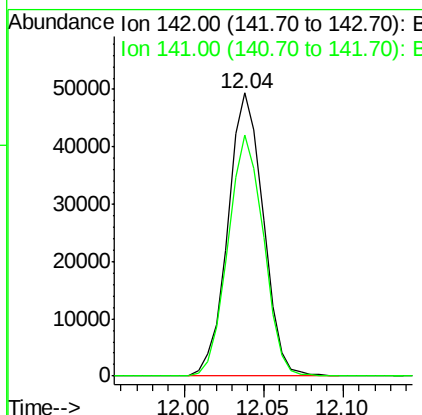
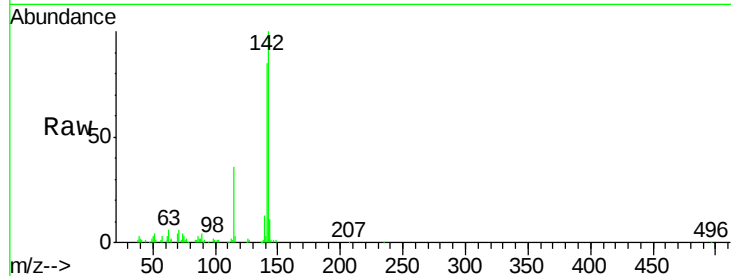
#34
 2-Methylnaphthalene
 Concen: 5.56 ng/ul
 RT: 12.04 min Scan# 1591
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Instrument :
 BNA_G
 ClientSampleId :
 MDL-07-S-ML

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.4	72.6	108.8

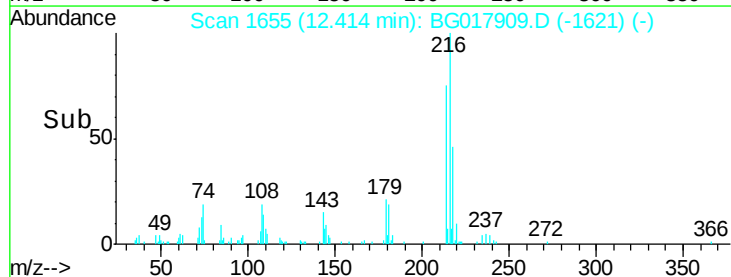
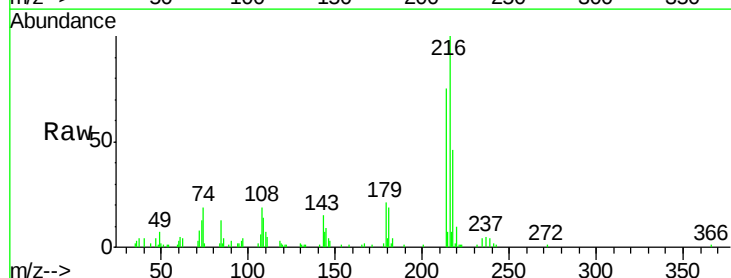
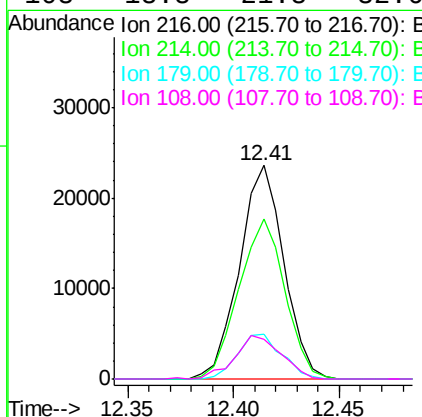
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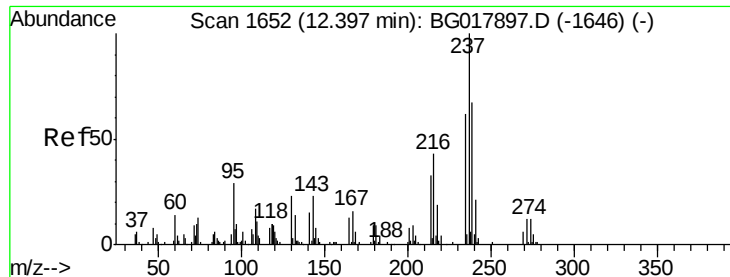
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#36
 1,2,4,5-Tetrachlorobenzene
 Concen: 5.51 ng/ul
 RT: 12.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Lower	Upper
216	100		
214	74.8	68.2	102.2
179	20.8	17.2	25.8
108	18.8	21.8	32.6#





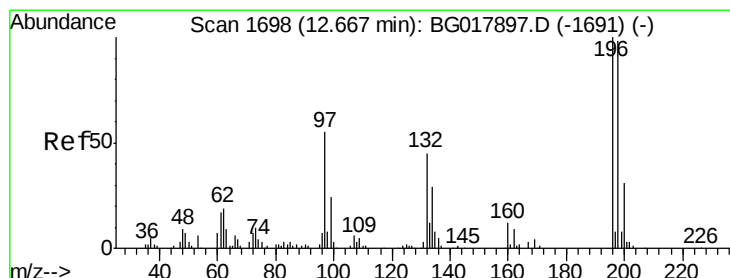
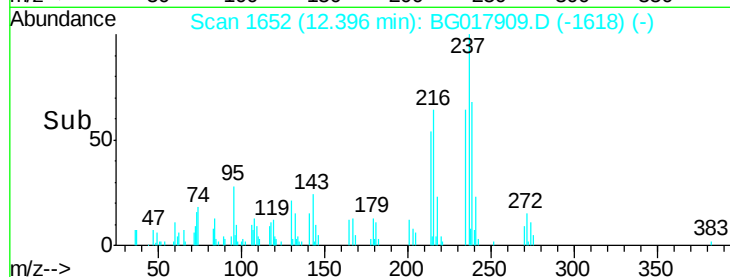
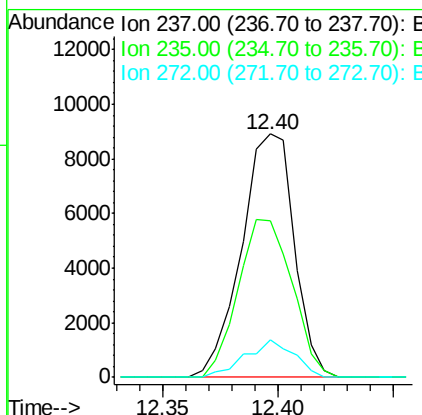
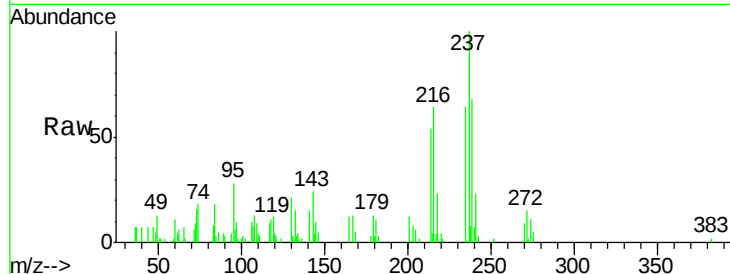
#37
Hexachlorocyclopentadiene
Concen: 4.37 ng/ul
RT: 12.40 min Scan# 1652
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp Lower	Resp Upper
237	100		
235	64.2	52.4	78.6
272	17.2	9.1	13.7

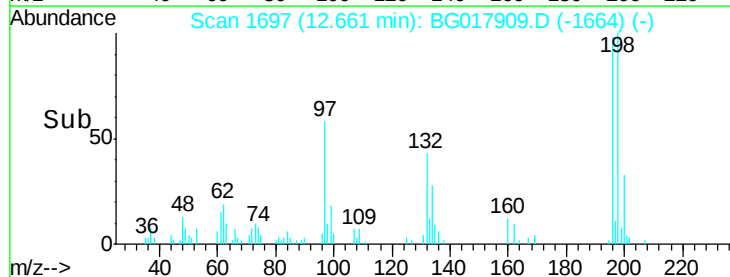
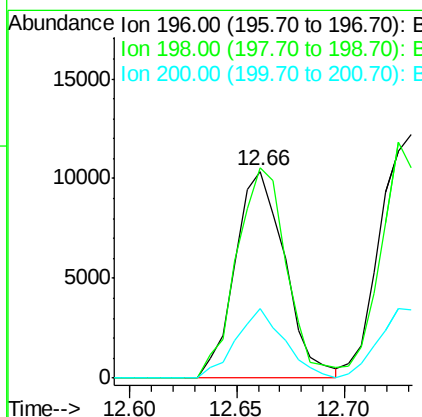
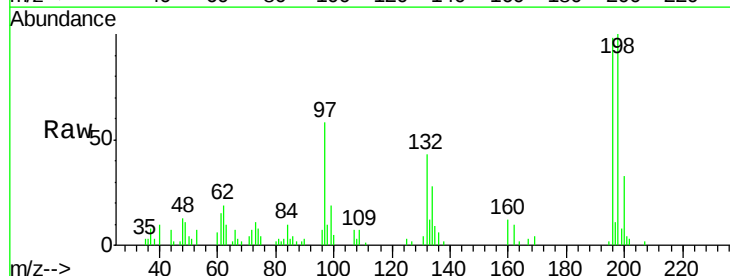
Manual Integrations
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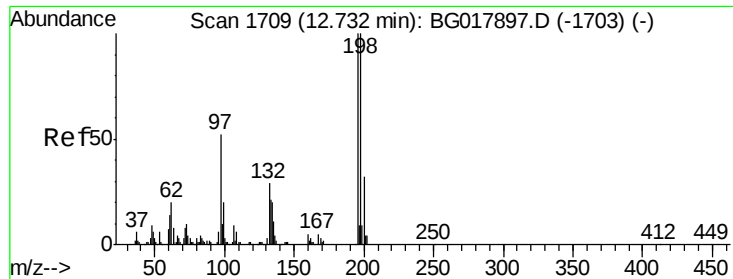
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#38
2,4,6-Trichlorophenol
Concen: 4.93 ng/ul m
RT: 12.66 min Scan# 1697
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
196	100		
198	102.0	69.0	103.4
200	33.6	22.2	33.4





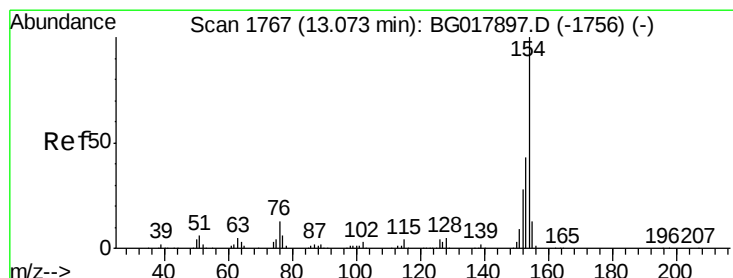
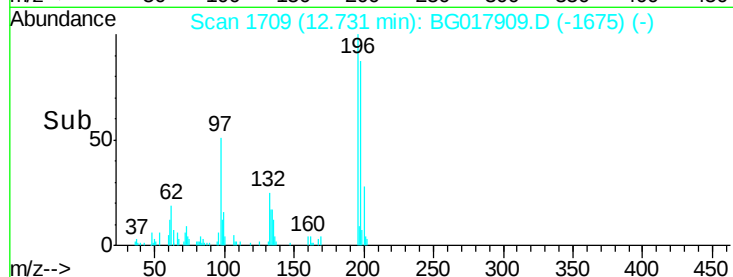
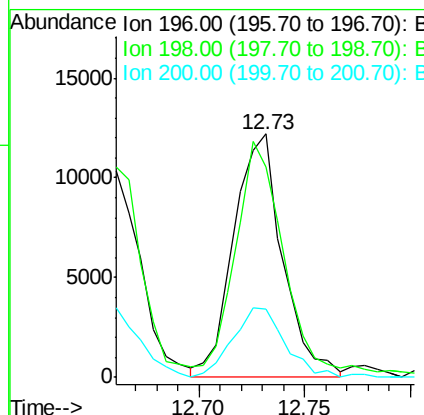
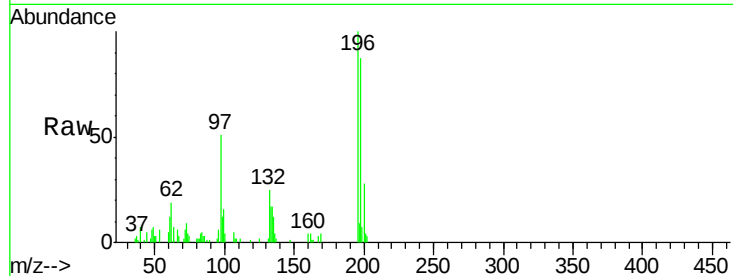
#39
 2,4,5-Trichlorophenol
 Concen: 5.31 ng/ul
 RT: 12.73 min Scan# 1709
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Instrument :
 BNA_G
 ClientSampleId :
 MDL-07-S-ML

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	19640		
198	86.7	76.3	114.5	
200	28.0	25.4	38.0	

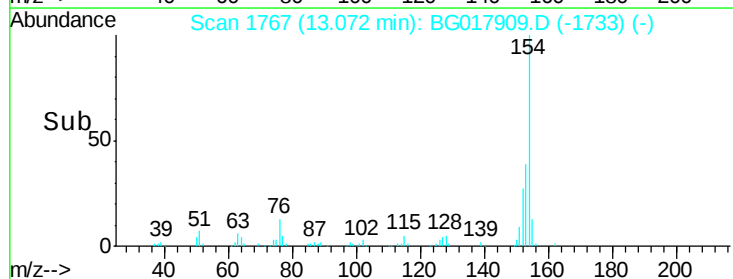
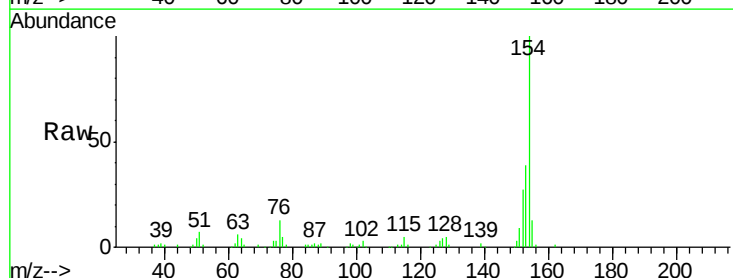
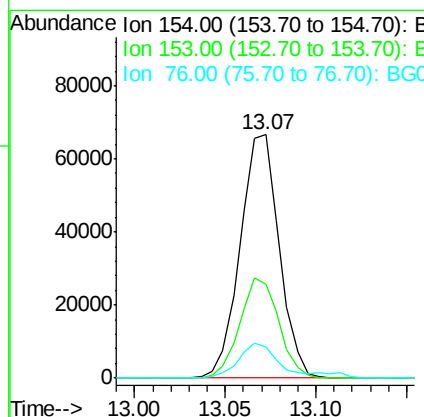
Manual Integrations
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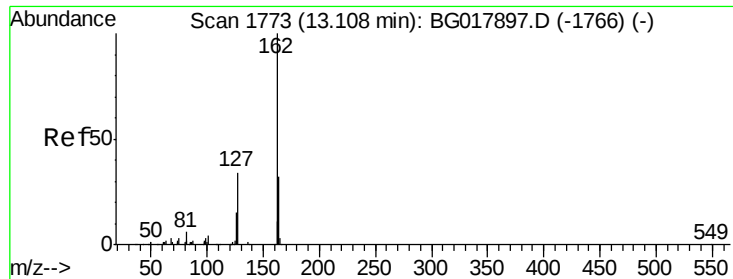
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#40
 1,1'-Biphenyl
 Concen: 5.42 ng/ul
 RT: 13.07 min Scan# 1767
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	99626		
153	38.6	35.0	52.6	
76	12.9	14.0	21.0	





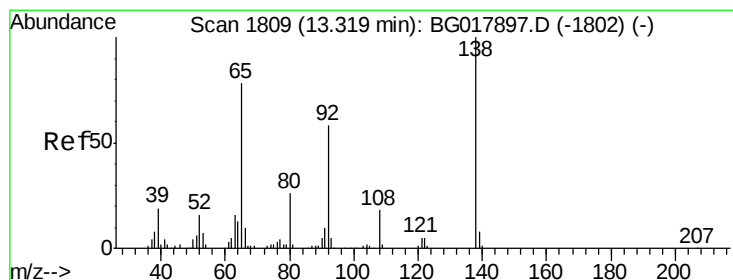
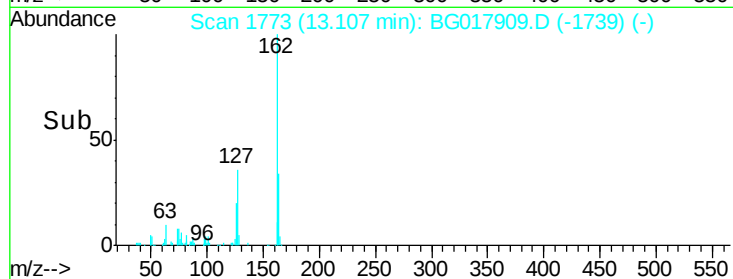
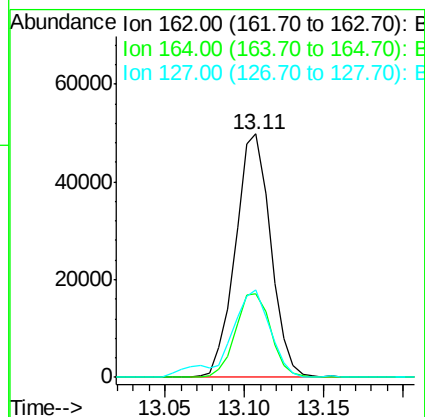
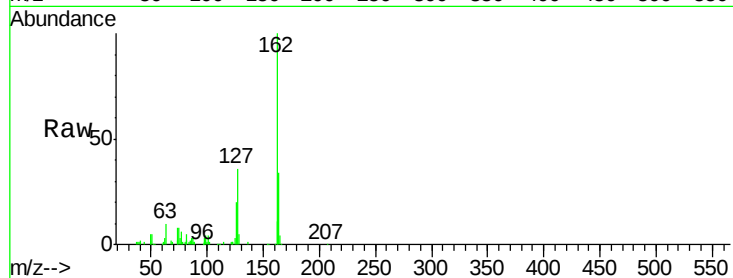
#41
 2-Chloronaphthalene
 Concen: 5.46 ng/ul
 RT: 13.11 min Scan# 1773
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Instrument :
 BNA_G
 ClientSampleId :
 MDL-07-S-ML

Tgt Ion:	162	Resp:	77017
Ion Ratio	Lower	Upper	
162	100		
164	34.2	22.9	34.3
127	36.2	32.7	49.1

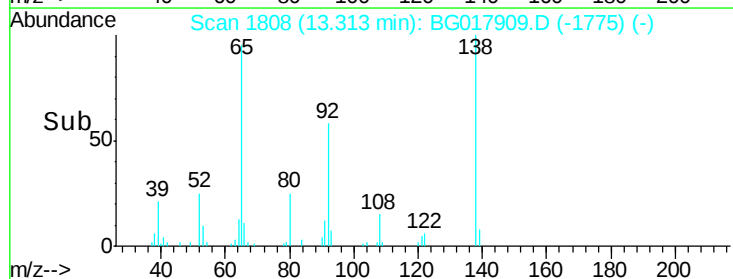
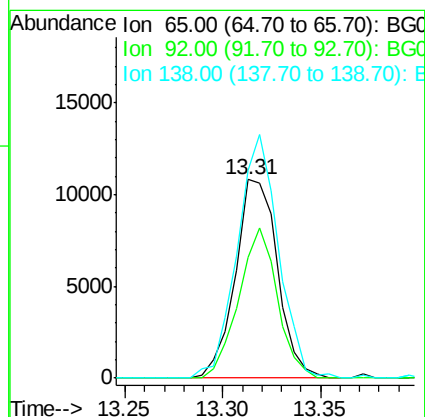
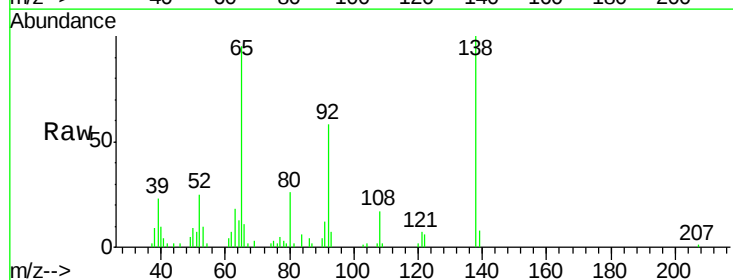
Manual Integrations
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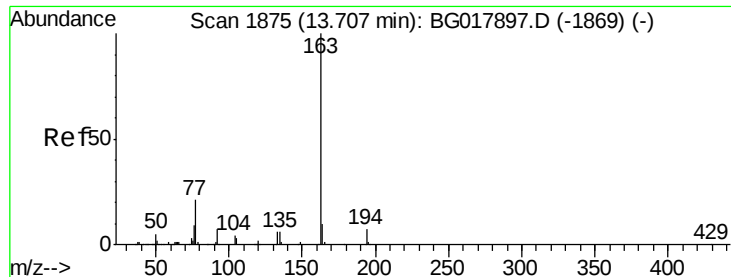
apatel
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#42
 2-Nitroaniline
 Concen: 3.92 ng/ul
 RT: 13.31 min Scan# 1808
 Delta R.T. -0.01 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Tgt Ion:	65	Resp:	16213
Ion Ratio	Lower	Upper	
65	100		
92	60.6	53.7	80.5
138	105.0	81.8	122.8





#44

Dimethylphthalate

Concen: 5.82 ng/ul

RT: 13.71 min Scan# 1875

Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

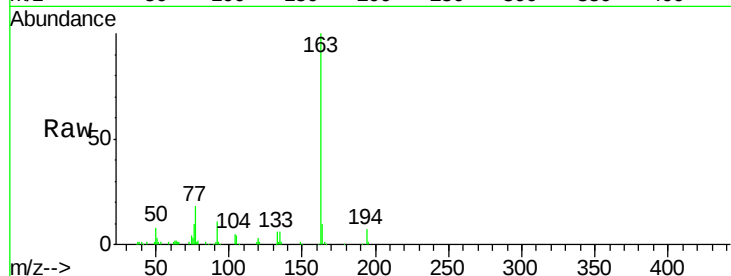
ClientSampled :

MDL-07-S-ML

Tgt	Ion	Ratio	Resp	Lower	Upper
163	100		101142		
194	6.9	5.4	8.0		
164	9.9	8.0	12.0		

Manual Integrations
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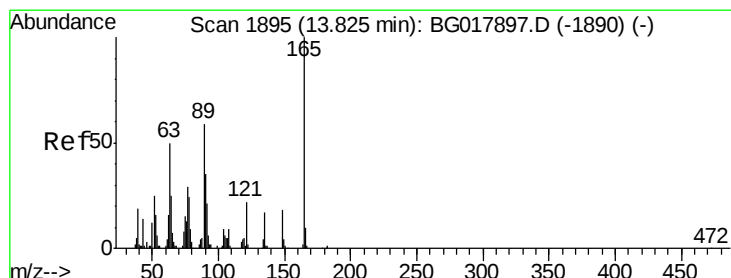
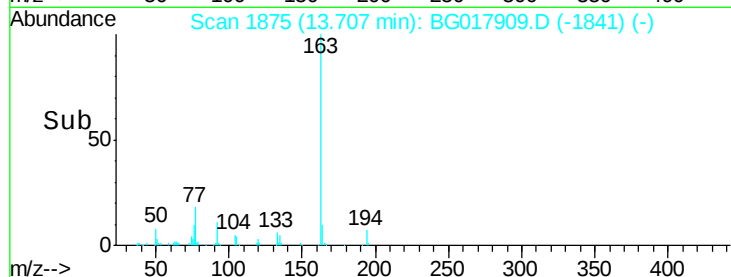
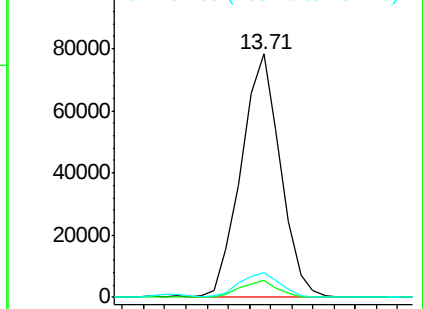


Abundance

Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#45

2,6-Dinitrotoluene

Concen: 4.95 ng/ul

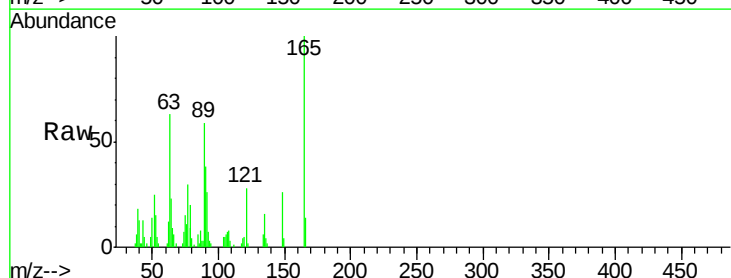
RT: 13.82 min Scan# 1895

Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt	Ion	Ratio	Resp	Lower	Upper
165	100		15674		
89	59.2	55.4	83.2		
121	28.5	20.6	30.8		

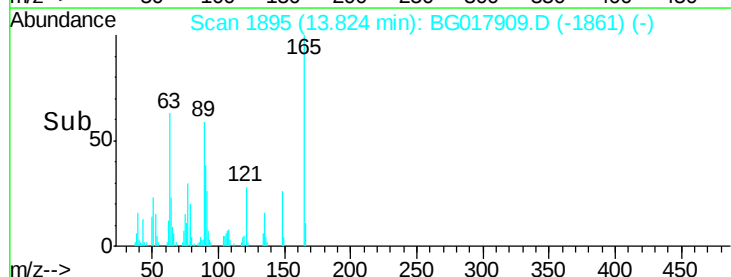
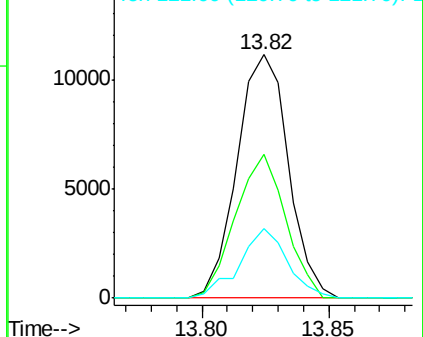


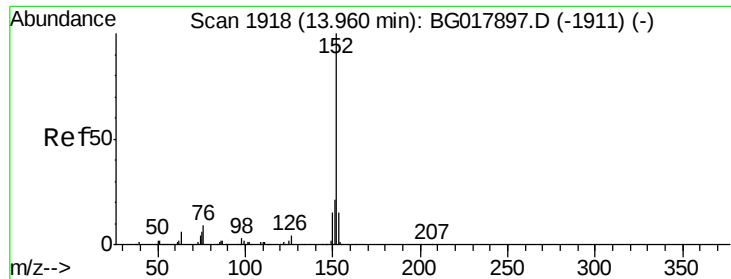
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 89.00 (88.70 to 89.70): BGC

Ion 121.00 (120.70 to 121.70): E





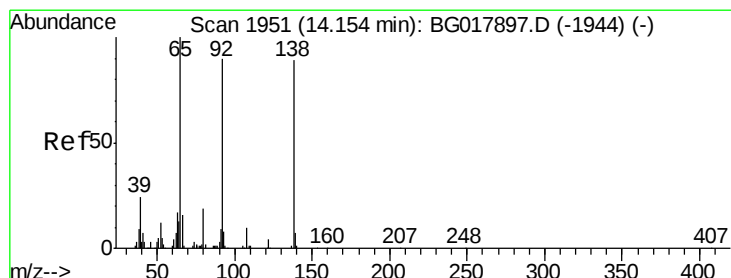
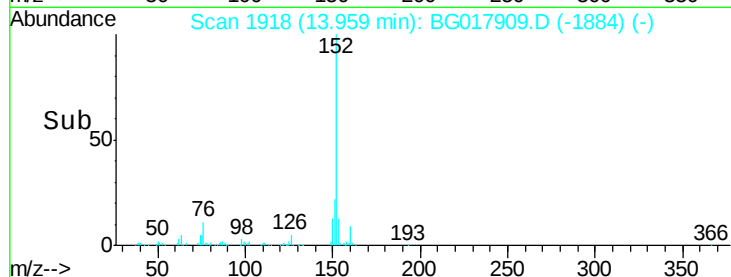
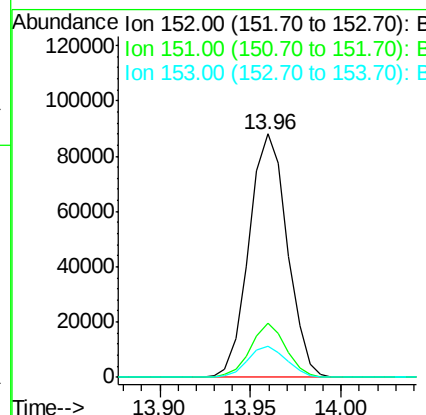
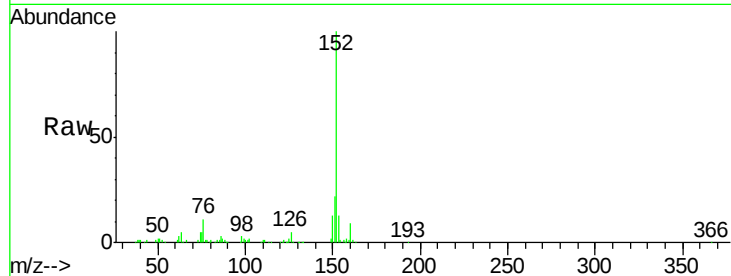
#47
Acenaphthylene
Concen: 5.43 ng/ul
RT: 13.96 min Scan# 1918
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	129212		
151	22.3	16.3	24.5	
153	12.9	10.7	16.1	

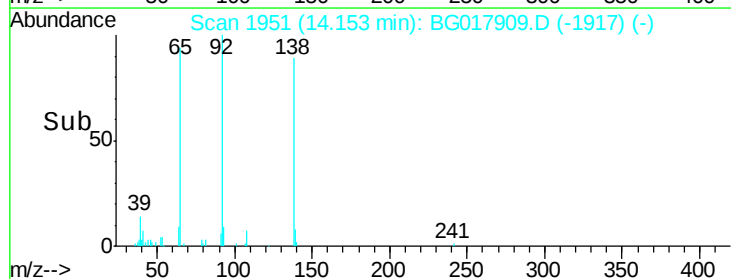
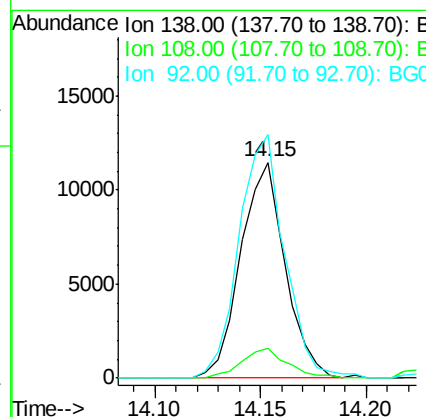
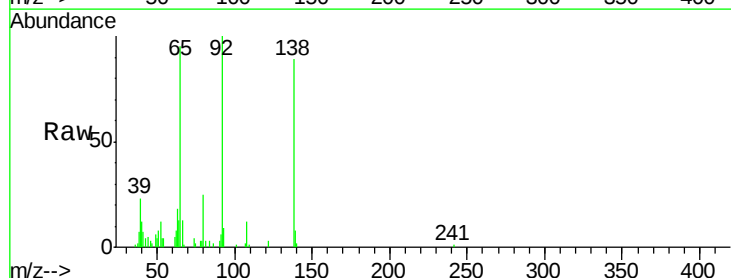
Manual Integrations
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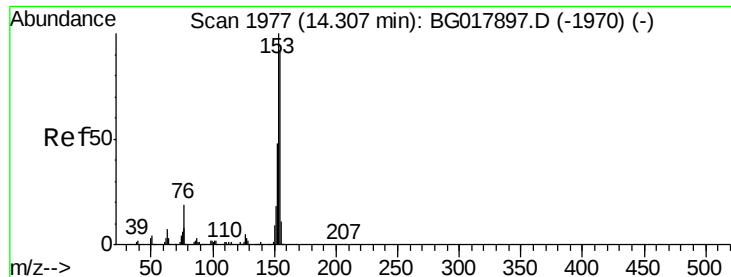
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#48
3-Nitroaniline
Concen: 4.64 ng/ul
RT: 14.15 min Scan# 1951
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp	Lower	Upper
138	100	16767		
108	13.7	8.7	13.1#	
92	112.8	84.3	126.5	





#49

Acenaphthene

Concen: 5.32 ng/ul

RT: 14.31 min Scan# 1977

Delta R.T. -0.00 min

Lab File: BG017909.D

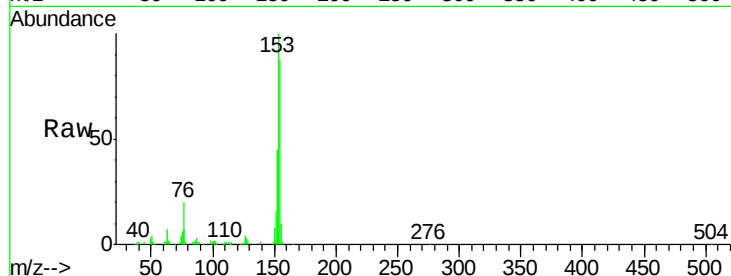
Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

ClientSampleId :

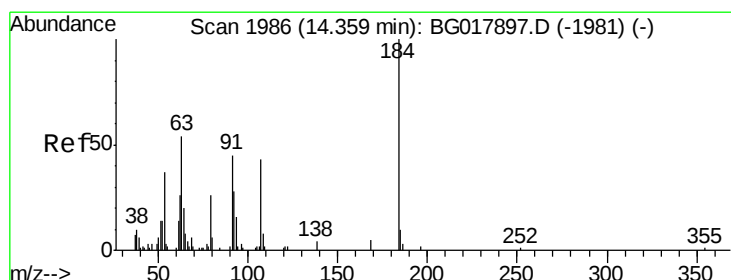
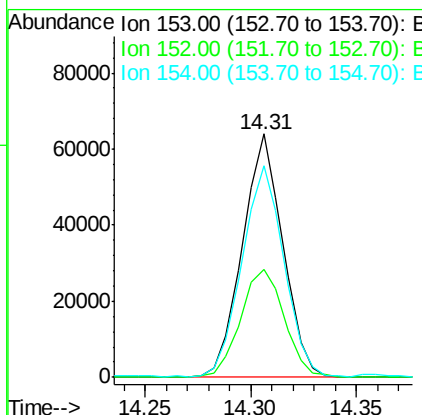
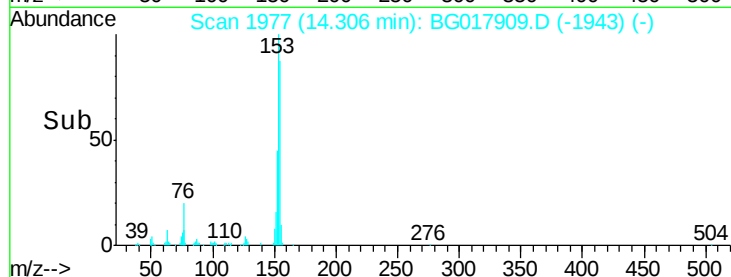
MDL-07-S-ML



Tgt Ion:	153	Resp:	85171
Ion Ratio	Lower	Upper	
153	100		
152	44.5	37.8	56.6
154	86.9	71.0	106.4

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#50

2,4-Dinitrophenol

Concen: 1.35 ng/ul

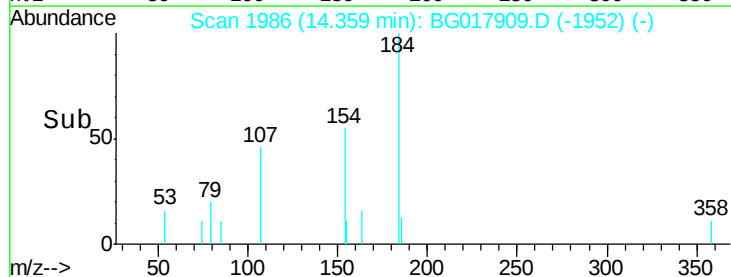
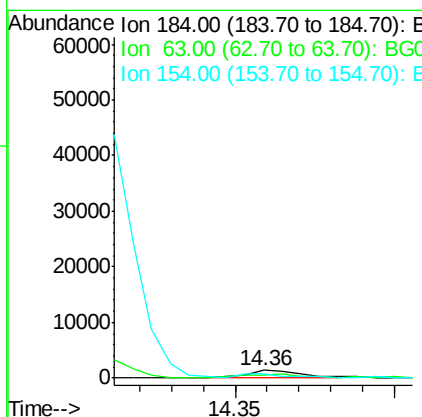
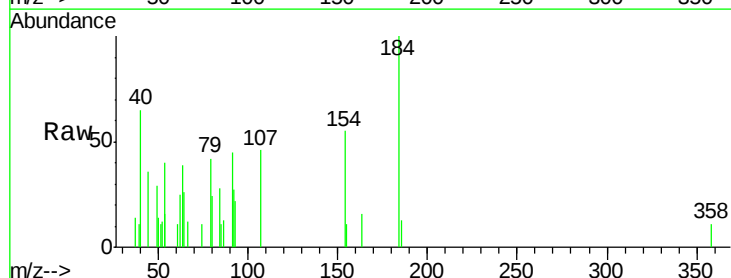
RT: 14.36 min Scan# 1986

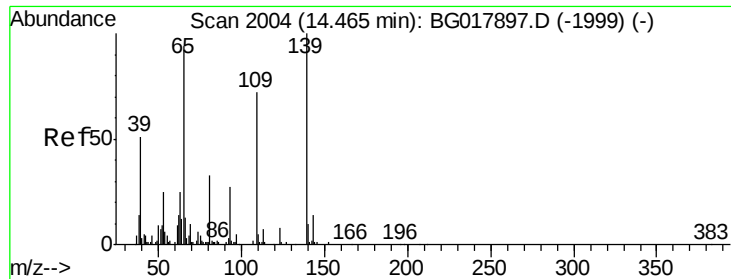
Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion:	184	Resp:	1804
Ion Ratio	Lower	Upper	
184	100		
63	39.5	60.3	90.5#
154	54.7	48.7	73.1





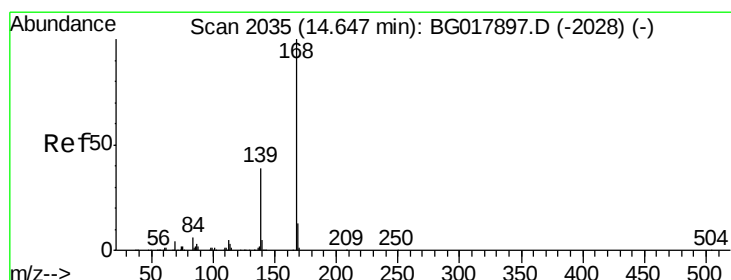
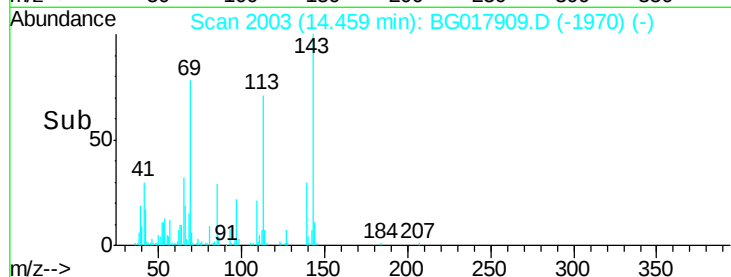
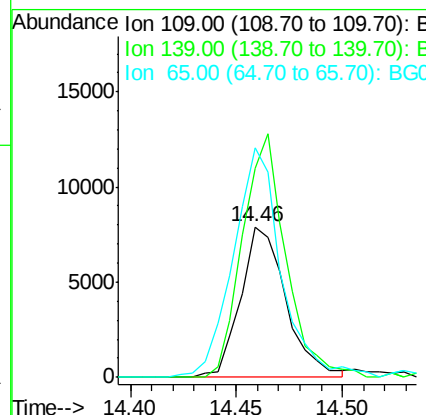
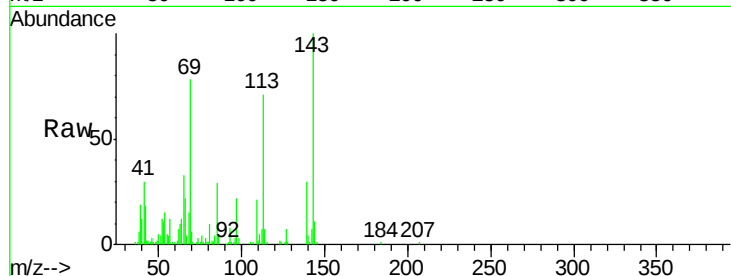
#52
4-Nitrophenol
Concen: 4.47 ng/ul
RT: 14.46 min Scan# 2003
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp	Lower	Upper
109	100	11844		
139	138.7	96.9	145.3	
65	152.7	121.1	181.7	

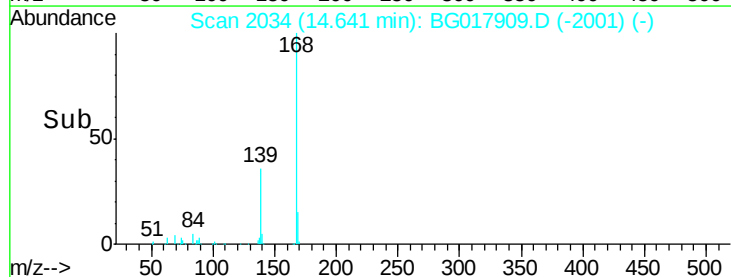
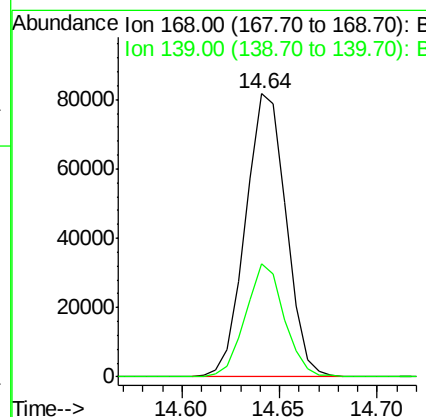
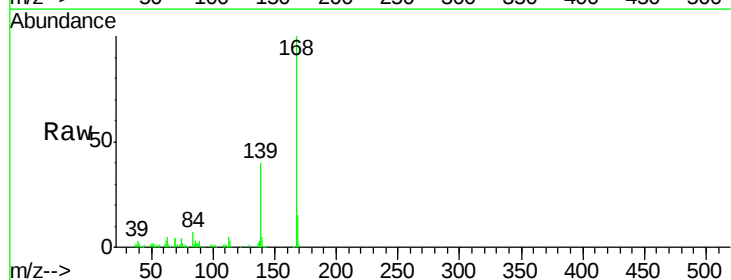
Manual Integrations
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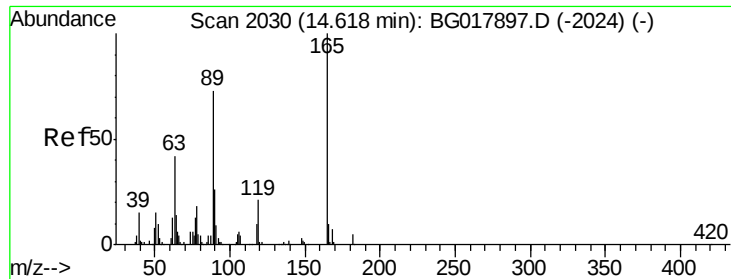
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#53
Dibenzofuran
Concen: 5.58 ng/ul
RT: 14.64 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp	Lower	Upper
168	100	117522		
139	39.9	33.6	50.4	





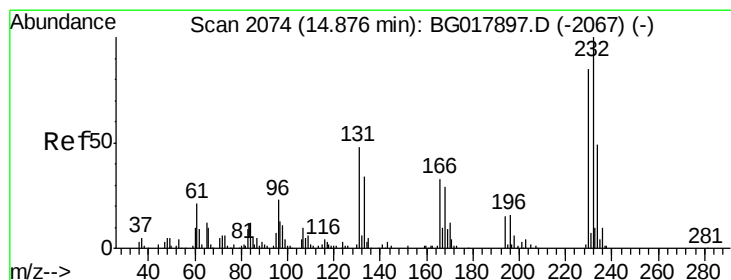
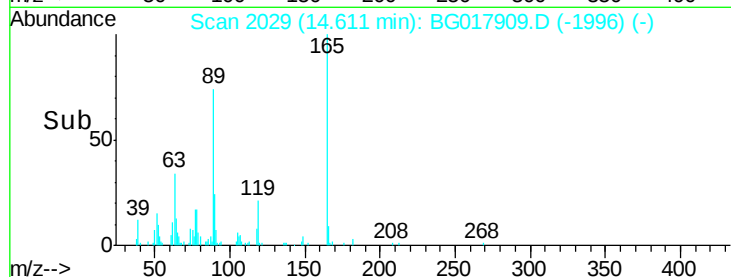
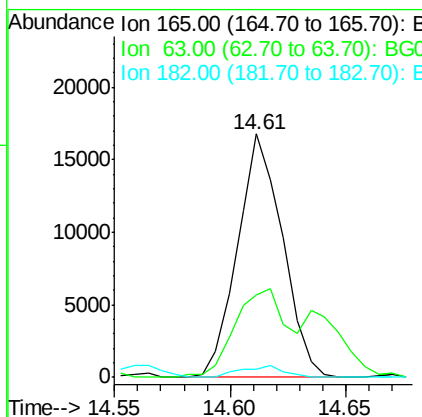
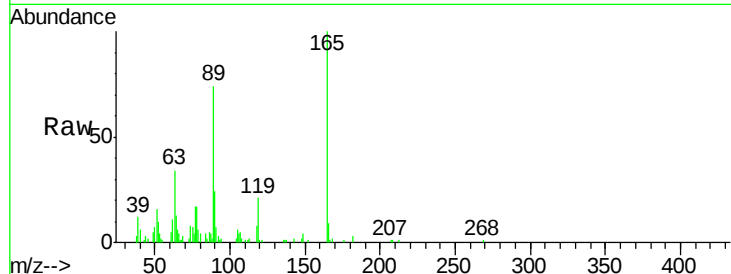
#54
 2,4-Dinitrotoluene
 Concen: 5.00 ng/ul
 RT: 14.61 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Instrument :
 BNA_G
 ClientSampleId :
 MDL-07-S-ML

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	22691		
63	33.9	48.0	72.0#	
182	3.5	3.7	5.5#	

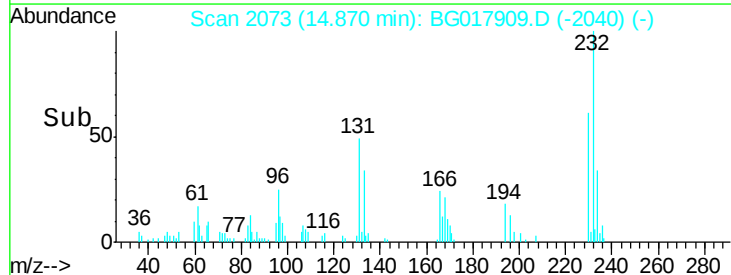
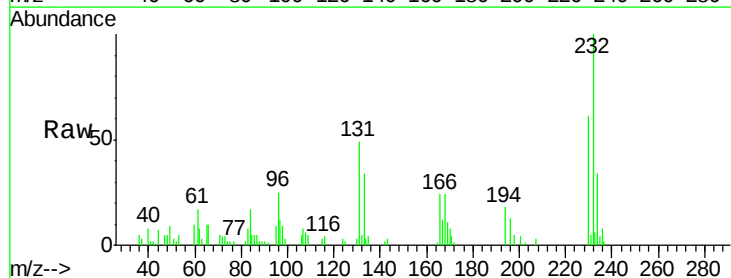
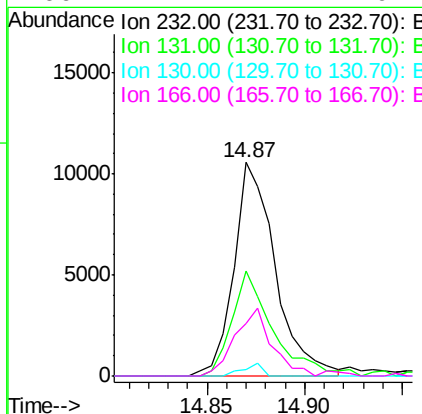
Manual Integrations
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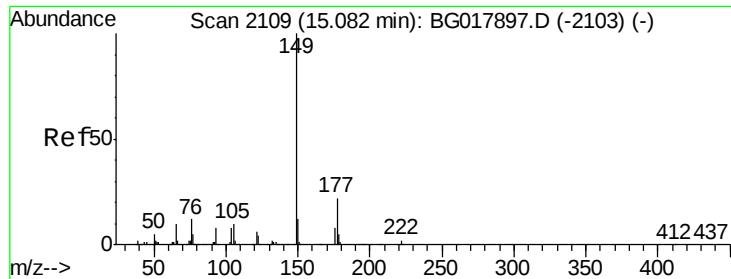
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#55
 2,3,4,6-Tetrachlorophenol
 Concen: 5.43 ng/ul
 RT: 14.87 min Scan# 2073
 Delta R.T. -0.01 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp	Lower	Upper
232	100	15487		
131	49.4	50.1	75.1#	
130	3.2	2.4	3.6	
166	24.4	27.1	40.7#	





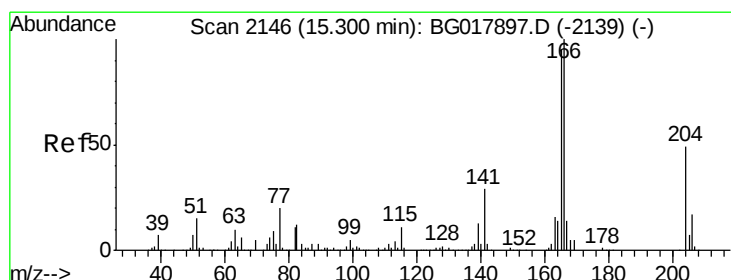
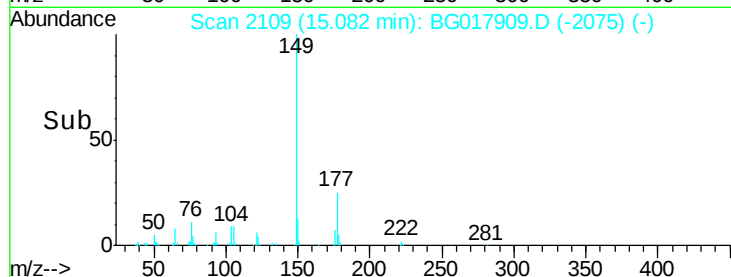
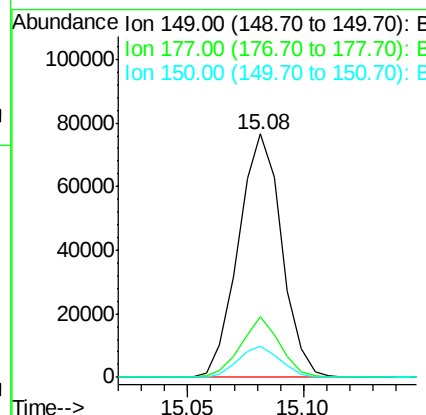
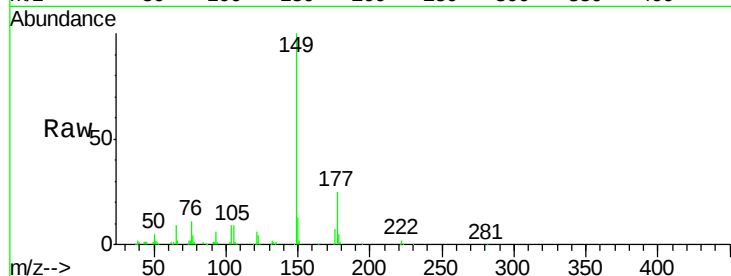
#56
Diethylphthalate
Concen: 5.58 ng/ul
RT: 15.08 min Scan# 2109
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp Lower	Resp Upper
149	100		
177	24.9	17.5	26.3
150	13.0	10.2	15.4

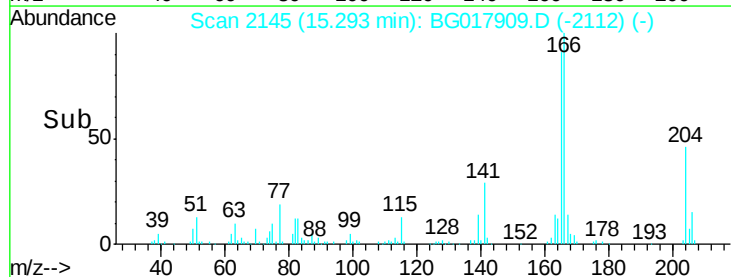
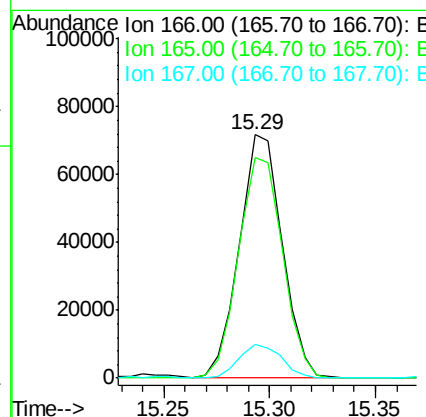
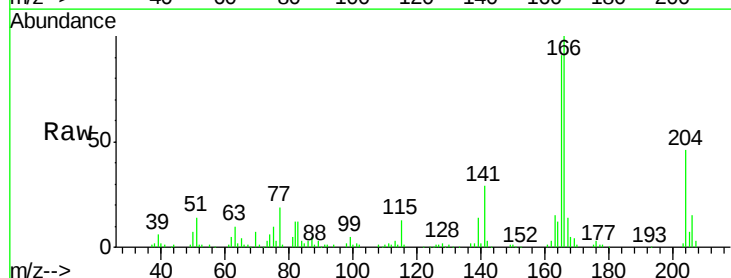
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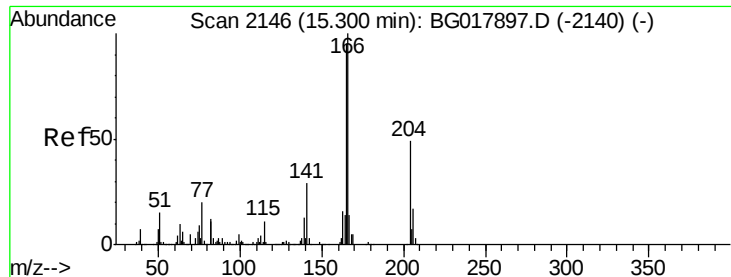
apatel
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#58
Fluorene
Concen: 5.54 ng/ul
RT: 15.29 min Scan# 2145
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
166	100		
165	90.6	73.3	109.9
167	13.8	11.0	16.4





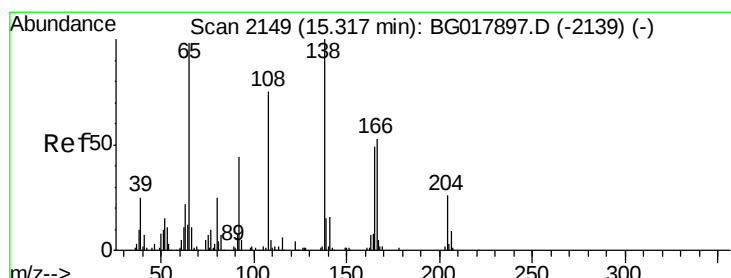
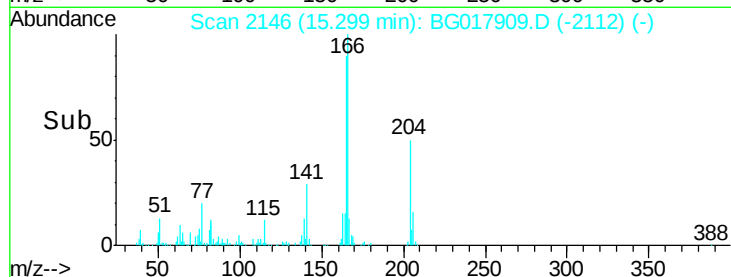
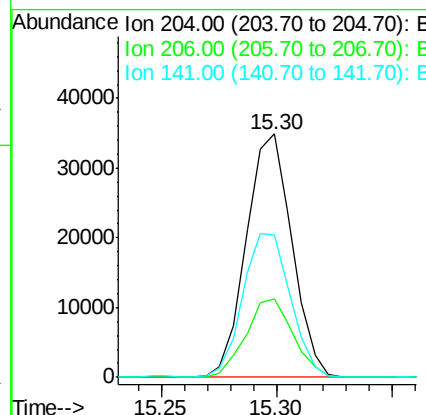
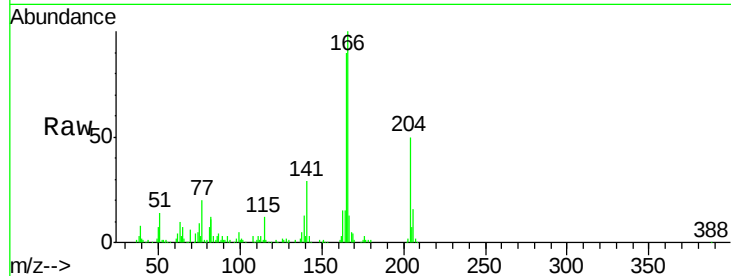
#59
 4-Chlorophenyl-phenylether
 Concen: 5.66 ng/ul
 RT: 15.30 min Scan# 2146
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Instrument :
 BNA_G
 ClientSampleId :
 MDL-07-S-ML

Tgt Ion	Ratio	Resp Lower	Upper
204	100		
206	32.1	25.7	38.5
141	58.6	52.5	78.7

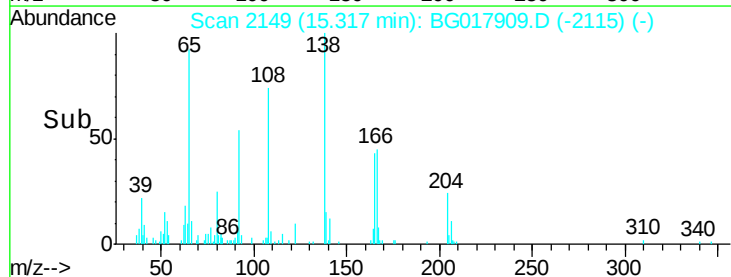
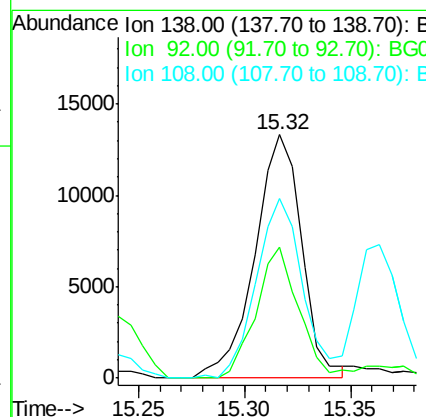
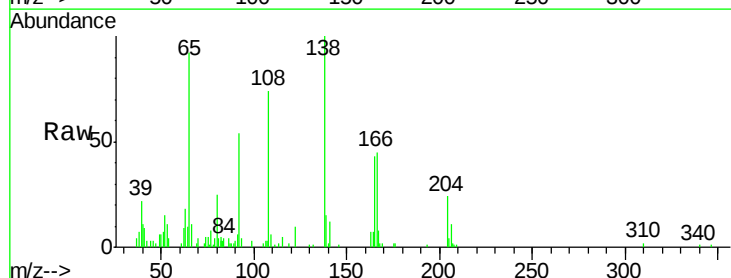
Manual Integrations
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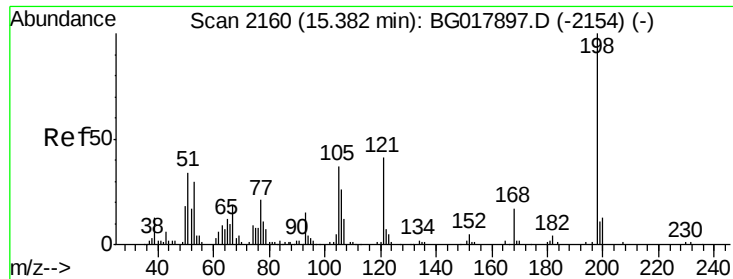
apatel
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#60
 4-Nitroaniline
 Concen: 4.77 ng/ul
 RT: 15.32 min Scan# 2149
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp Lower	Upper
138	100		
92	54.0	38.6	58.0
108	73.9	62.0	93.0





#63

4,6-Dinitro-2-methylphenol

Concen: 3.95 ng/ul

RT: 15.38 min Scan# 2159

Delta R.T. -0.01 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

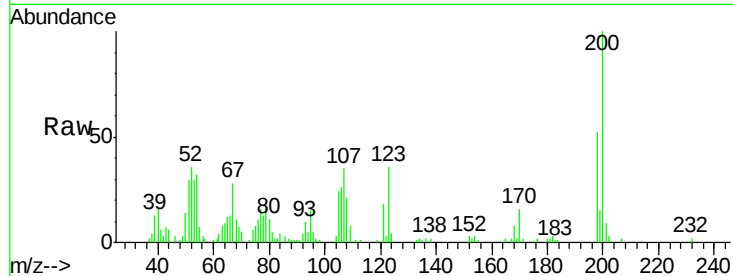
ClientSampleId :

MDL-07-S-ML

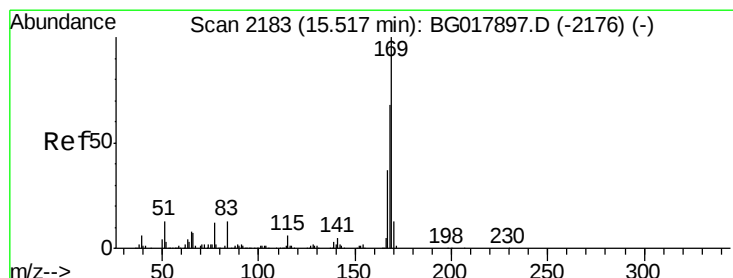
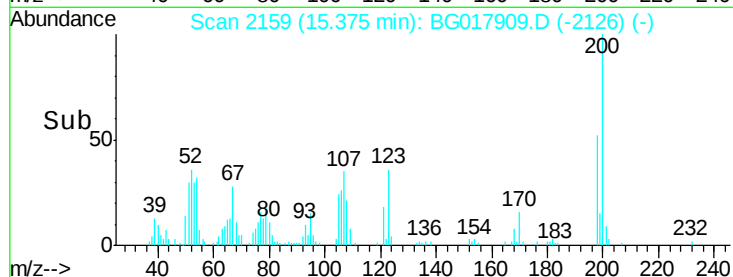
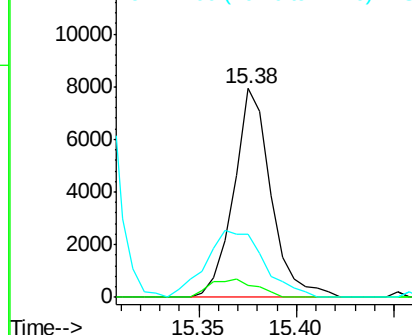
Tgt Ion:	198	Resp:	10485
Ion Ratio	Lower	Upper	
198	100		
182	5.7	3.8	5.8
77	30.5	25.8	38.6

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Abundance Ion 198.00 (197.70 to 198.70): E
Ion 182.00 (181.70 to 182.70): E
Ion 77.00 (76.70 to 77.70): B



#64

N-Nitrosodiphenylamine

Concen: 5.27 ng/ul

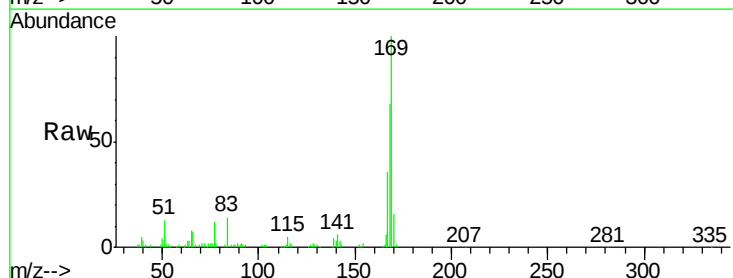
RT: 15.51 min Scan# 2182

Delta R.T. -0.01 min

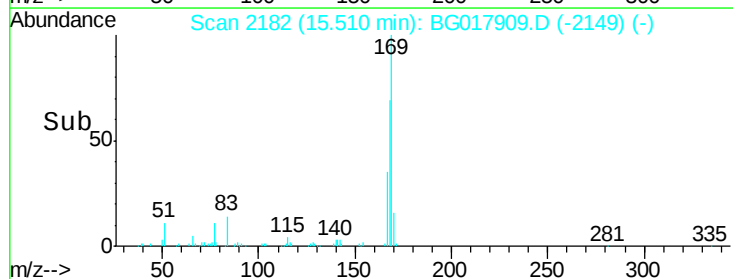
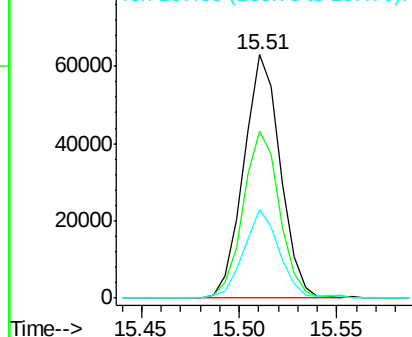
Lab File: BG017909.D

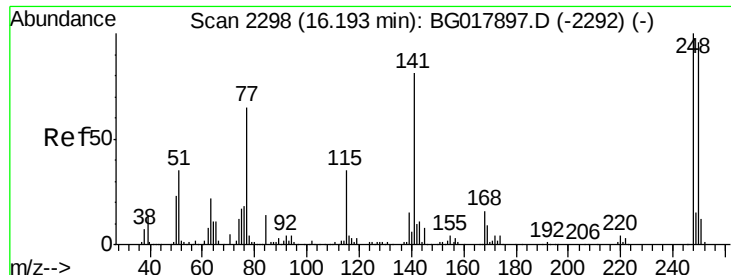
Acq: 16 Jul 2015 7:09

Tgt Ion:	169	Resp:	81692
Ion Ratio	Lower	Upper	
169	100		
168	68.3	53.7	80.5
167	36.3	29.8	44.8



Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E





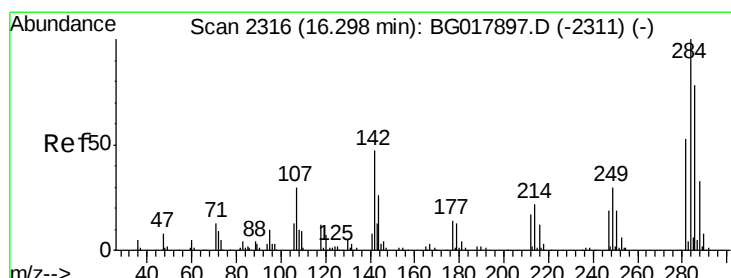
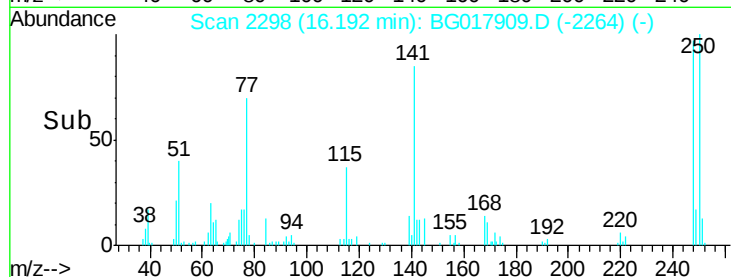
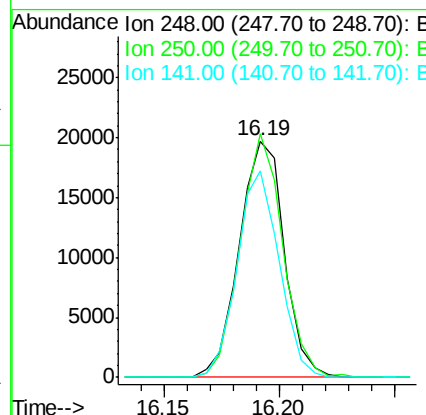
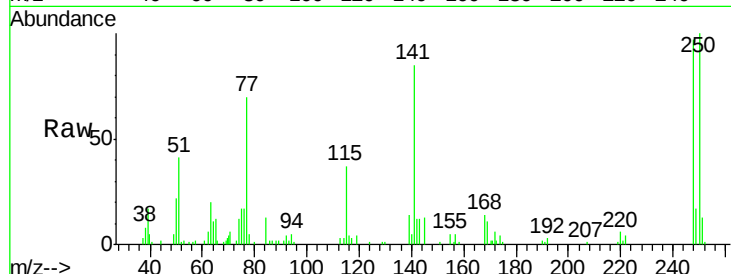
#65
4-Bromophenyl-phenylether
Concen: 5.47 ng/ul
RT: 16.19 min Scan# 2298
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp	Lower	Upper
248	100	26697		
250	103.1	81.8	122.6	
141	87.3	77.6	116.4	

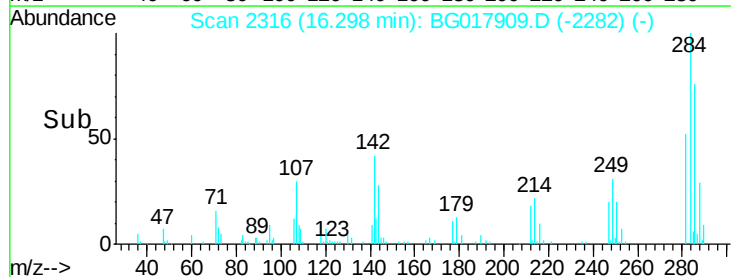
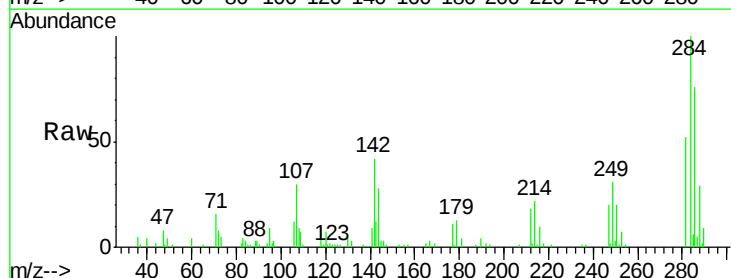
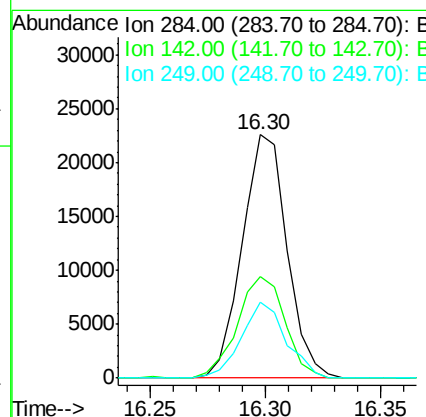
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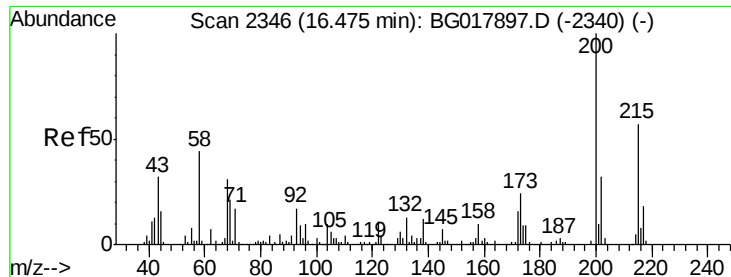
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#66
Hexachlorobenzene
Concen: 5.78 ng/ul
RT: 16.30 min Scan# 2316
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp	Lower	Upper
284	100	30604		
142	41.5	41.8	62.6	#
249	31.2	23.3	34.9	





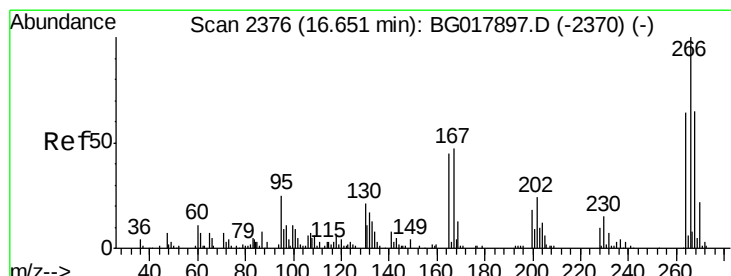
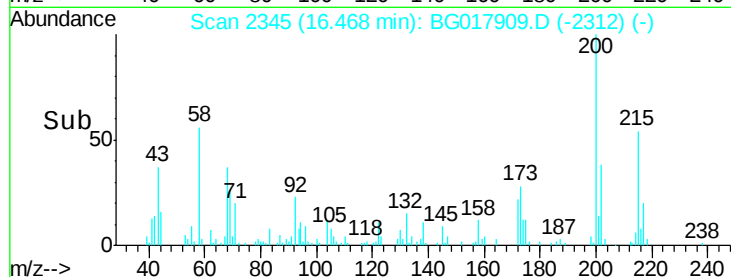
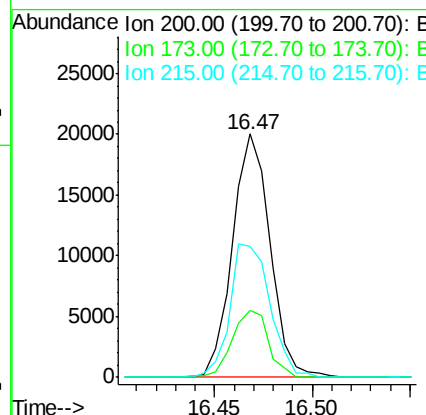
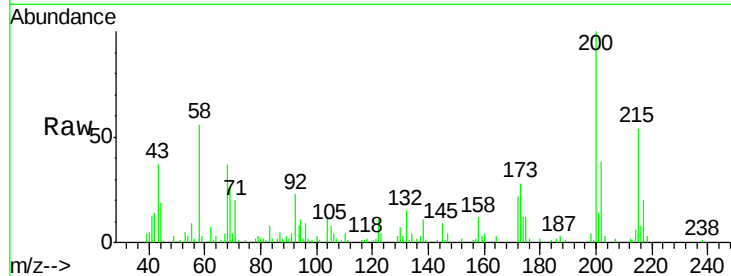
#67
 Atrazine
 Concen: 5.03 ng/ul
 RT: 16.47 min Scan# 2345
 Delta R.T. -0.01 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Instrument :
 BNA_G
 ClientSampled :
 MDL-07-S-ML

Tgt Ion	Ratio	Resp Lower	Upper
200	100		
173	27.7	20.6	30.8
215	53.8	40.0	60.0

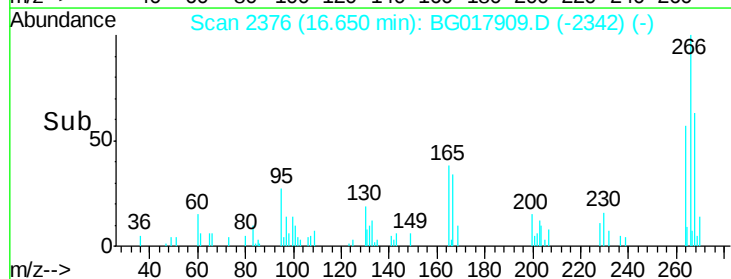
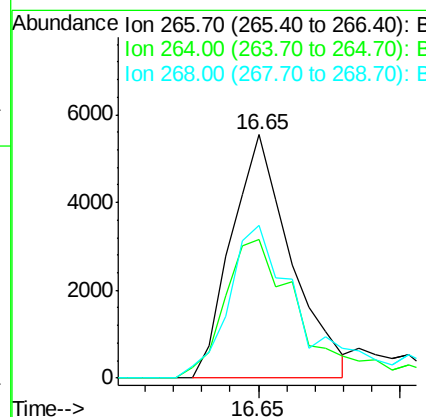
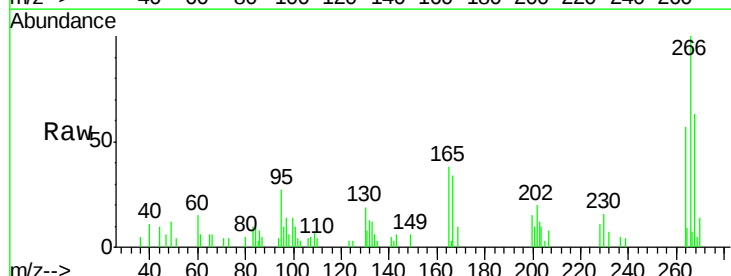
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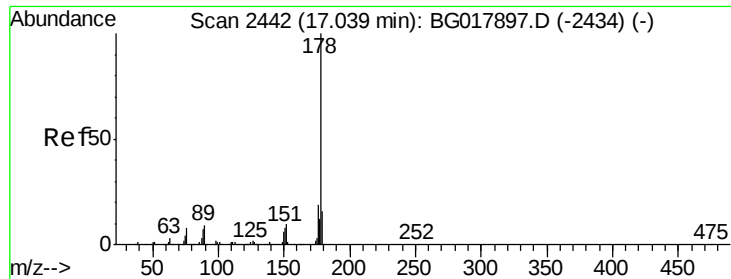
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#68
 Pentachlorophenol
 Concen: 3.10 ng/ul
 RT: 16.65 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: BG017909.D
 Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp Lower	Upper
266	100		
264	66.3	52.0	78.0
268	68.1	57.3	85.9





#69

Phenanthrene

Concen: 5.50 ng/ul

RT: 17.04 min Scan# 2442

Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

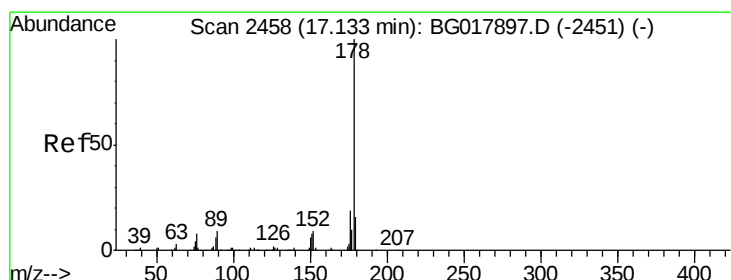
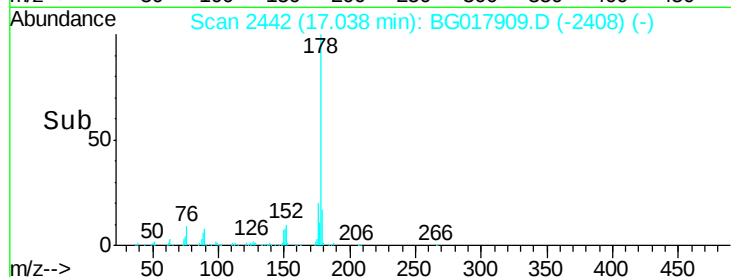
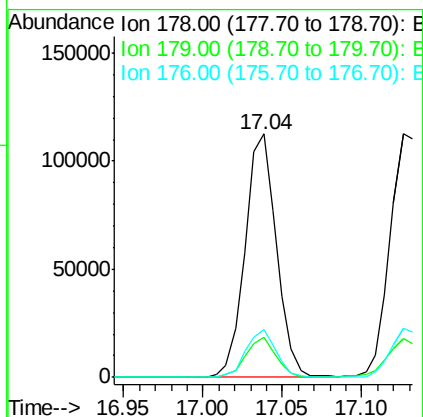
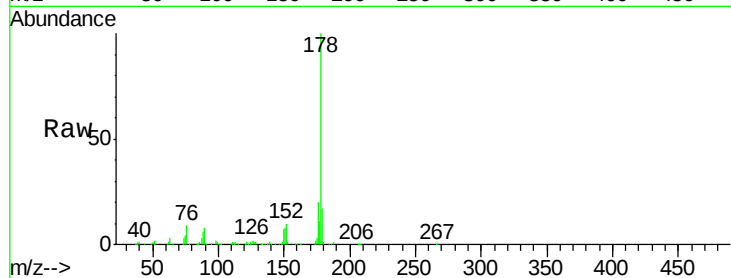
ClientSampleId :

MDL-07-S-ML

Tgt Ion:	178	Resp:	154543
Ion Ratio	Lower	Upper	
178	100		
179	16.6	12.6	18.8
176	19.7	16.2	24.2

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#71

Anthracene

Concen: 5.54 ng/ul

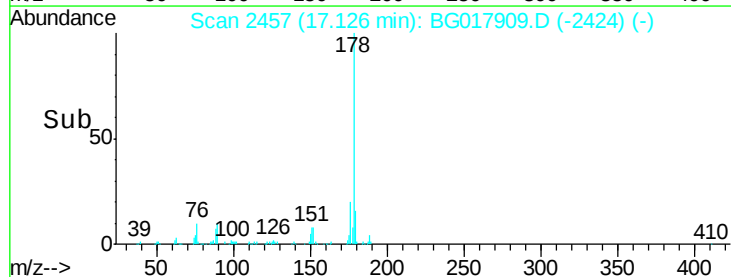
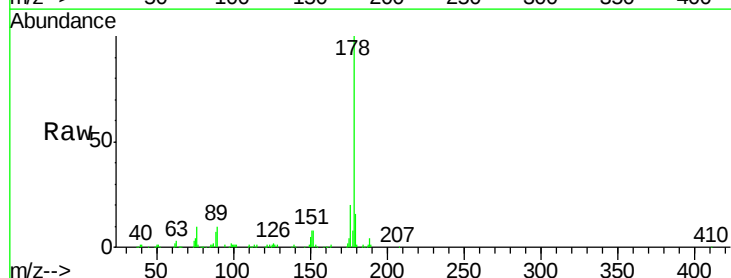
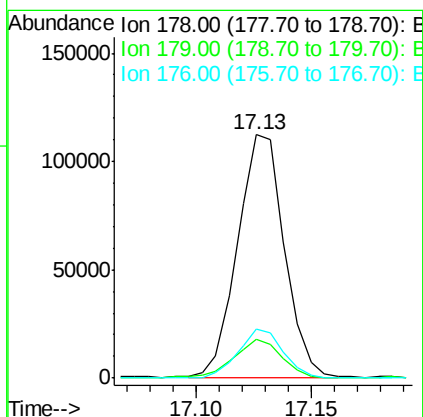
RT: 17.13 min Scan# 2457

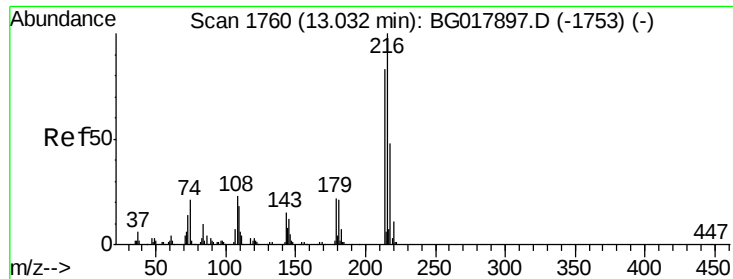
Delta R.T. -0.01 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion:	178	Resp:	159266
Ion Ratio	Lower	Upper	
178	100		
179	15.9	12.6	19.0
176	19.9	16.5	24.7





#72

1,2,3,4-Tetrachlorobenzene

Concen: 5.07 ng/uL

RT: 13.03 min Scan# 1760

Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

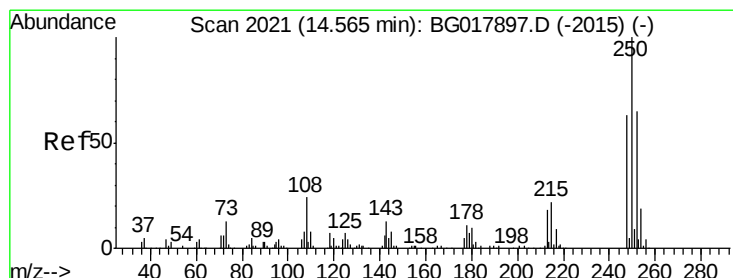
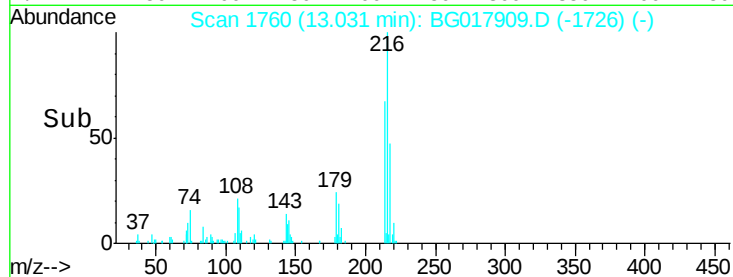
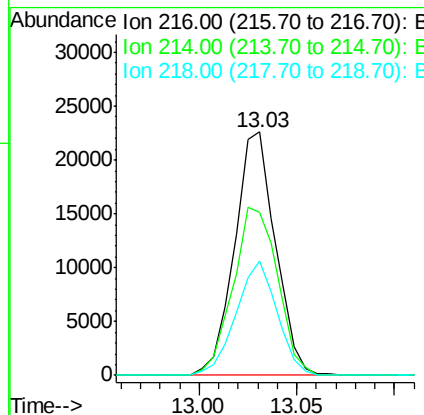
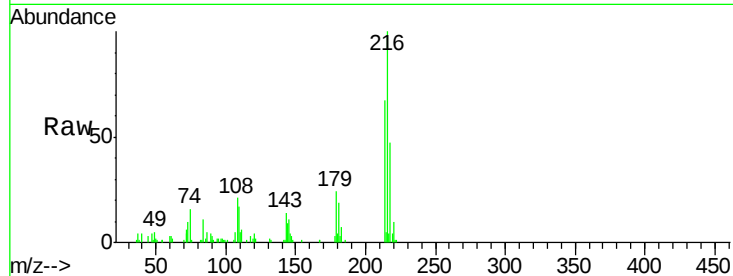
ClientSampleId :

MDL-07-S-ML

Tgt Ion:	216	Resp:	32795
Ion Ratio	Lower	Upper	
216	100		
214	66.7	59.0	88.6
218	46.9	35.8	53.6

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#73

Pentachlorobenzene

Concen: 6.07 ng/uL

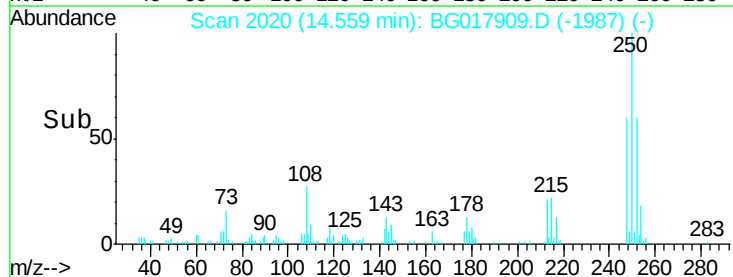
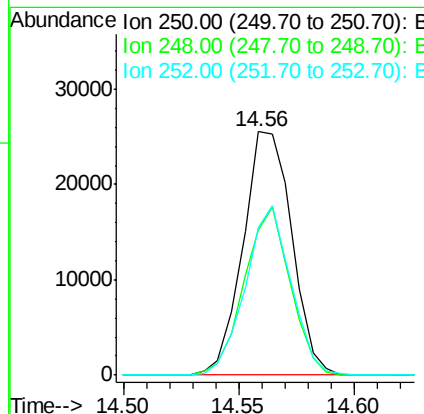
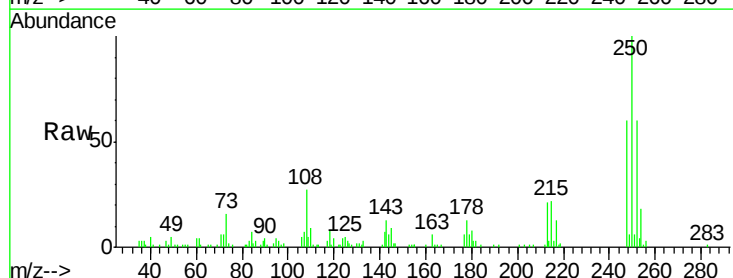
RT: 14.56 min Scan# 2020

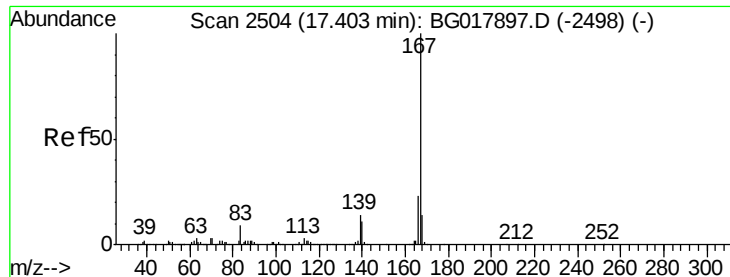
Delta R.T. -0.01 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion:	250	Resp:	37666
Ion Ratio	Lower	Upper	
250	100		
248	59.8	48.8	73.2
252	60.4	48.2	72.2





#74

Carbazole

Concen: 5.66 ng/ul

RT: 17.40 min Scan# 2504

Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

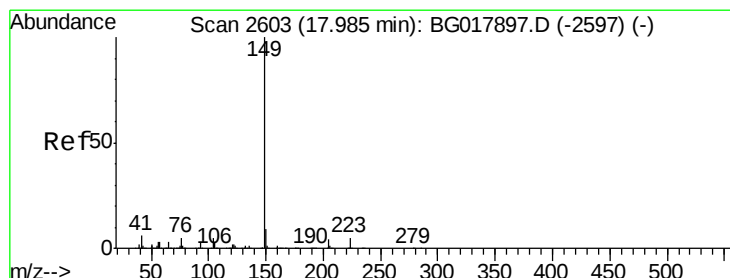
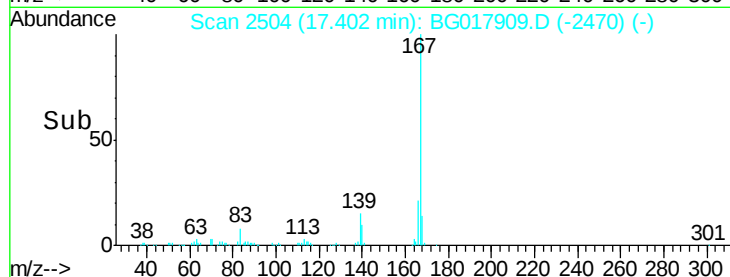
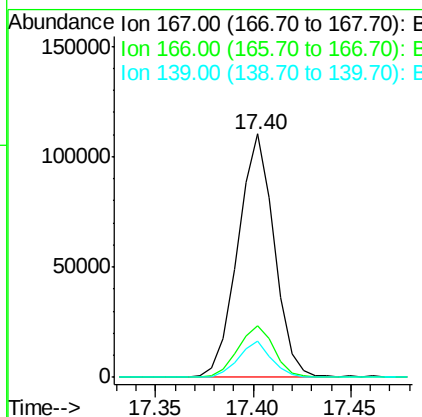
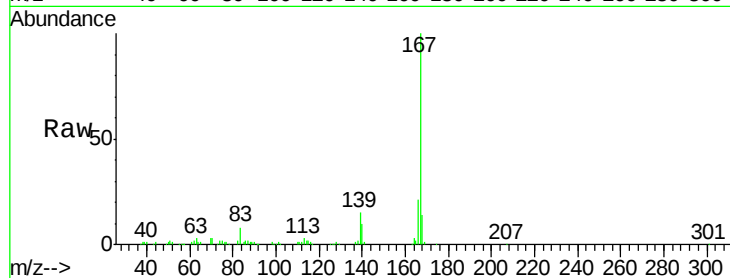
ClientSampleId :

MDL-07-S-ML

Tgt Ion:	167	Resp:	142025
Ion Ratio	Lower	Upper	
167	100		
166	21.0	17.8	26.8
139	14.7	11.4	17.2

Manual Integrations
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#75

Di-n-butylphthalate

Concen: 5.37 ng/ul

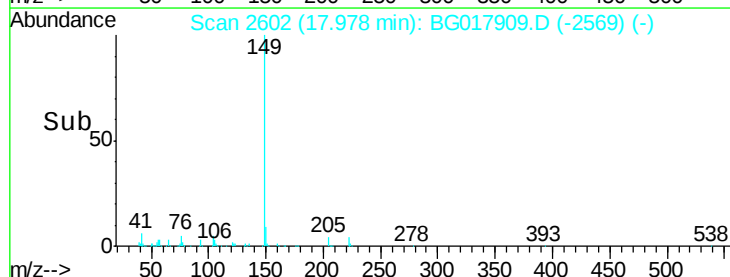
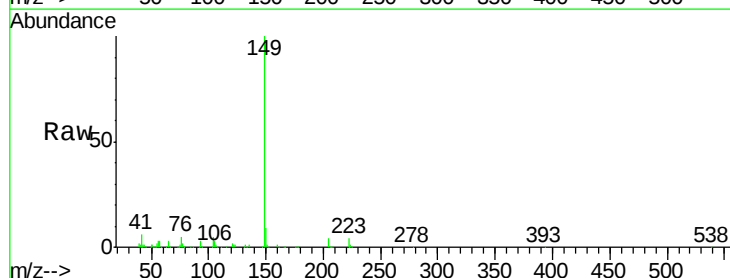
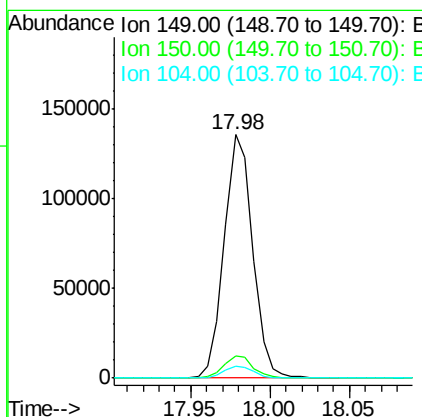
RT: 17.98 min Scan# 2602

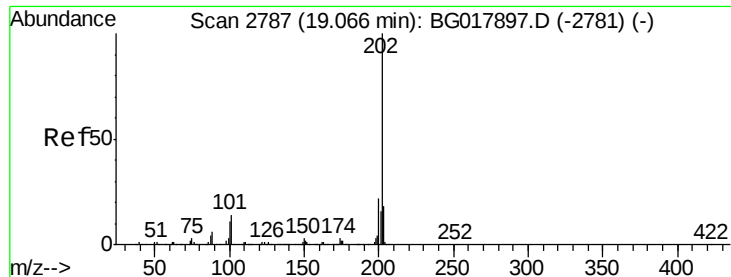
Delta R.T. -0.01 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion:	149	Resp:	169077
Ion Ratio	Lower	Upper	
149	100		
150	9.2	8.2	12.2
104	5.1	5.4	8.2#





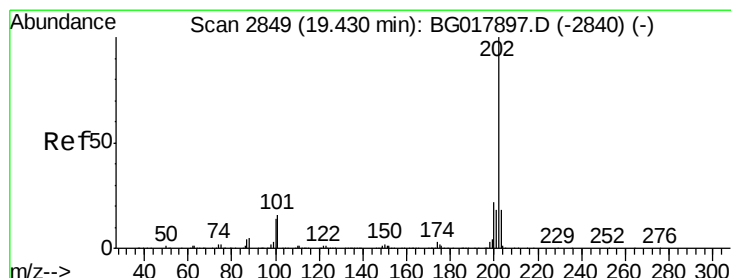
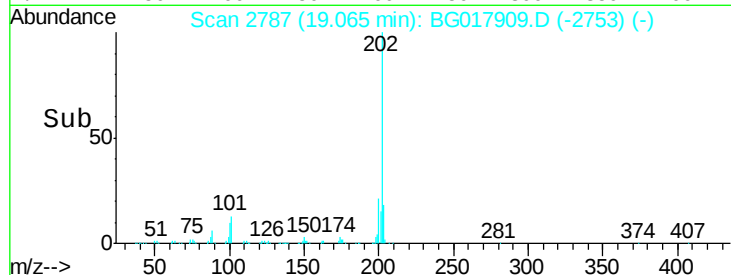
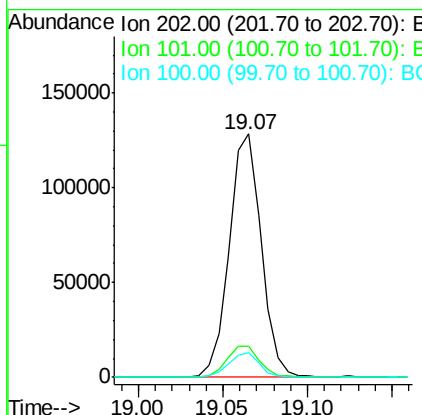
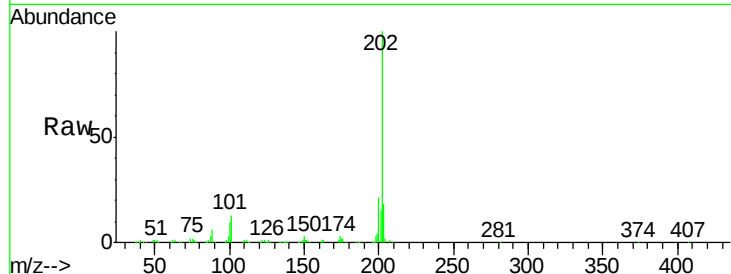
#76
Fluoranthene
Concen: 5.91 ng/ul
RT: 19.07 min Scan# 2787
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
MDL-07-S-ML

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	12.9	12.3	18.5
100	10.0	9.2	13.8

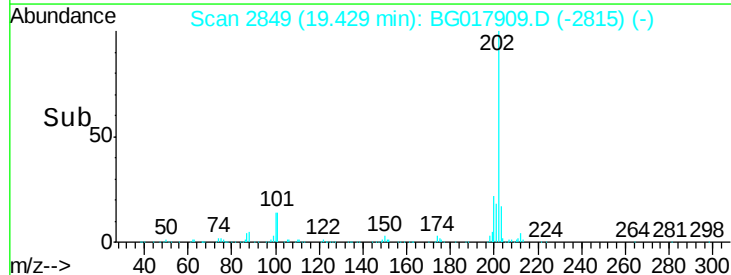
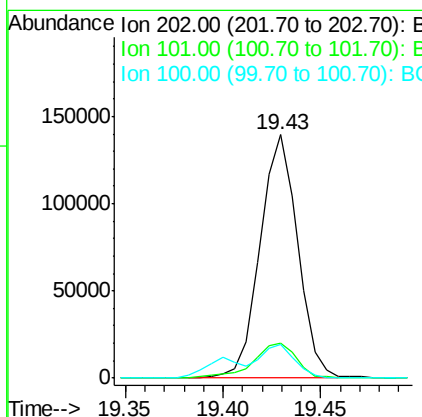
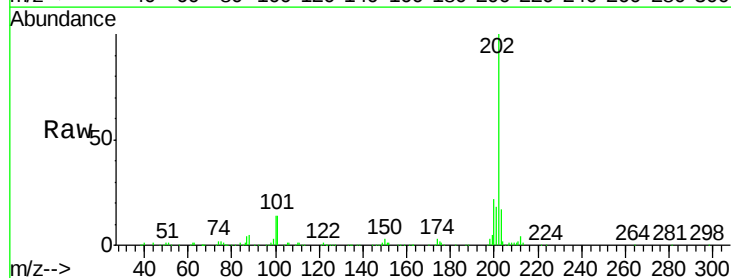
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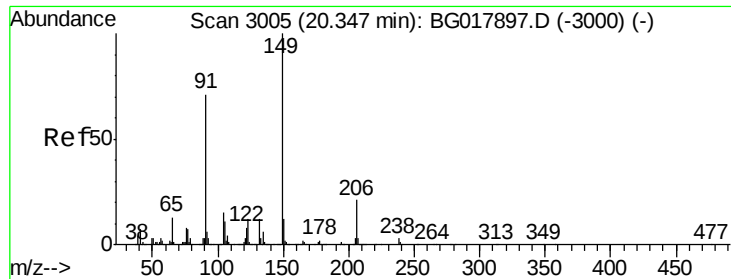
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#79
Pyrene
Concen: 5.97 ng/ul
RT: 19.43 min Scan# 2849
Delta R.T. -0.00 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
101	14.3	13.8	20.6
100	13.8	11.2	16.8





#80

Butylbenzylphthalate

Concen: 4.92 ng/ul

RT: 20.35 min Scan# 3005

Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

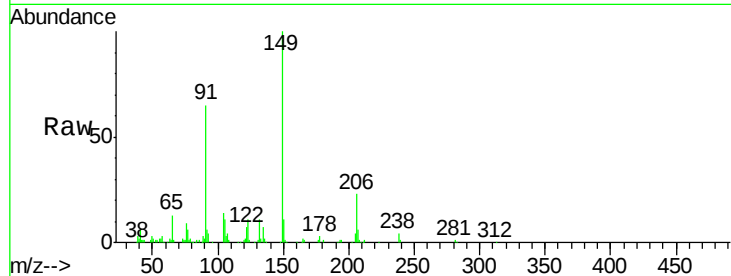
ClientSampleId :

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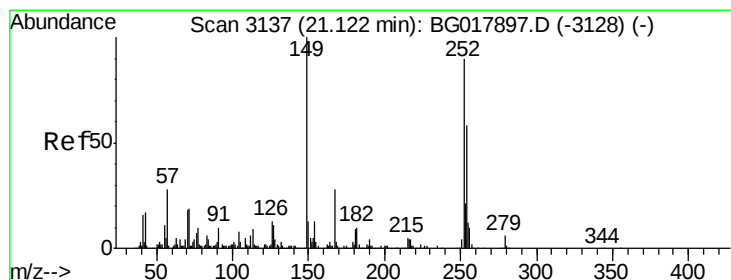
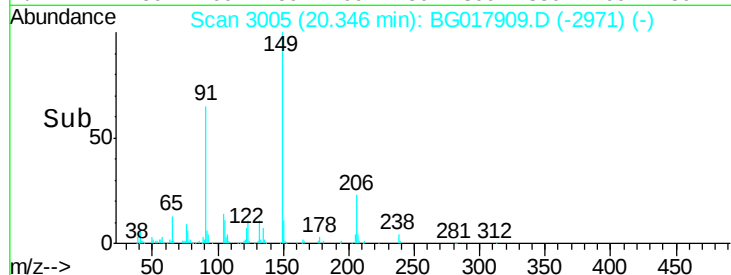
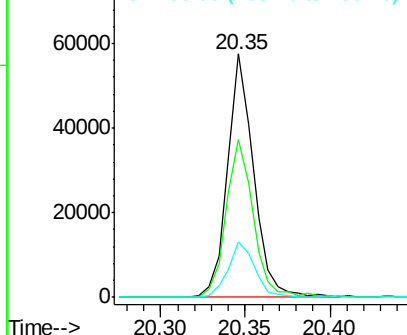
Tgt Ion:	149	Resp:	61890
Ion Ratio	Lower	Upper	
149	100		
91	64.8	64.3	96.5
206	23.0	15.3	22.9

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BGO
Ion 206.00 (205.70 to 206.70): E



#81

3,3'-Dichlorobenzidine

Concen: 4.86 ng/ul

RT: 21.12 min Scan# 3137

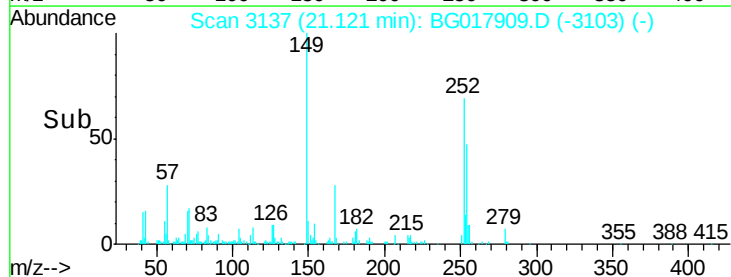
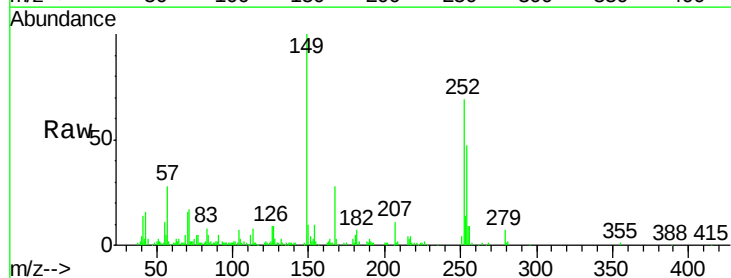
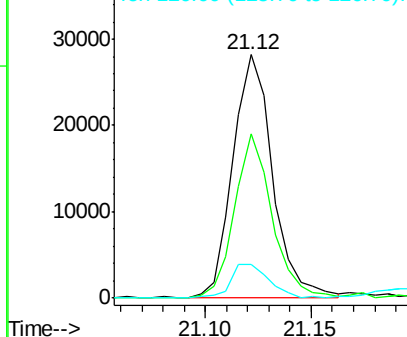
Delta R.T. -0.00 min

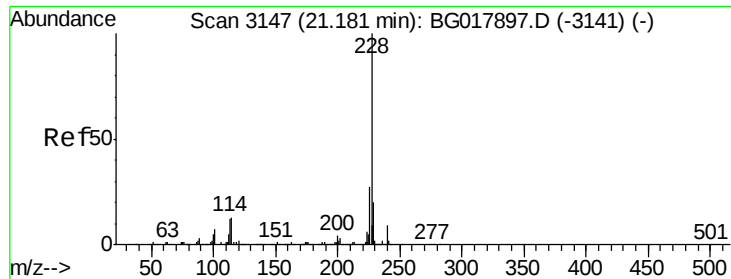
Lab File: BG017909.D

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Tgt Ion:	252	Resp:	36874
Ion Ratio	Lower	Upper	
252	100		
254	67.7	54.2	81.2
126	13.7	13.3	19.9

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 254.00 (253.70 to 254.70): E
Ion 126.00 (125.70 to 126.70): E





#82

Benzo(a)anthracene

Concen: 5.83 ng/ul

RT: 21.18 min Scan# 3147

Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

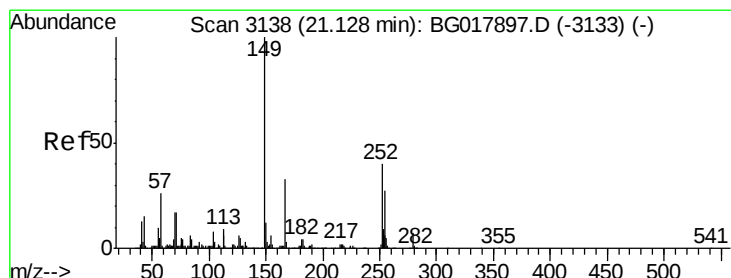
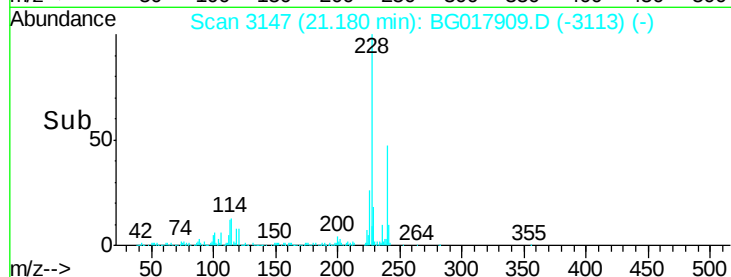
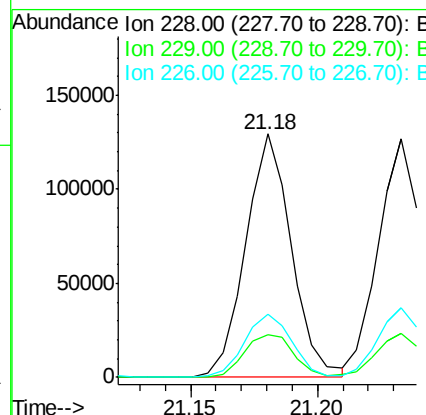
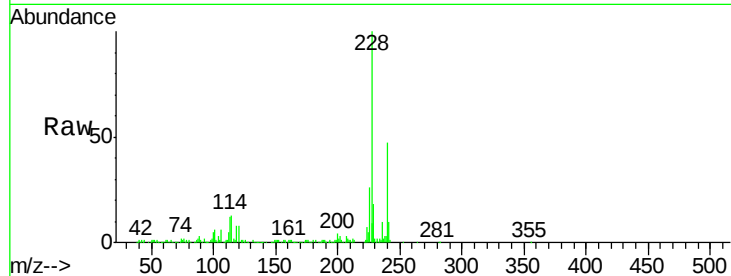
ClientSampleId :

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Tgt	Ion	Ratio	Lower	Upper
228	100			
229	17.6	16.5	24.7	
226	25.7	22.0	33.0	

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#83

Bis(2-ethylhexyl)phthalate

Concen: 4.74 ng/ul

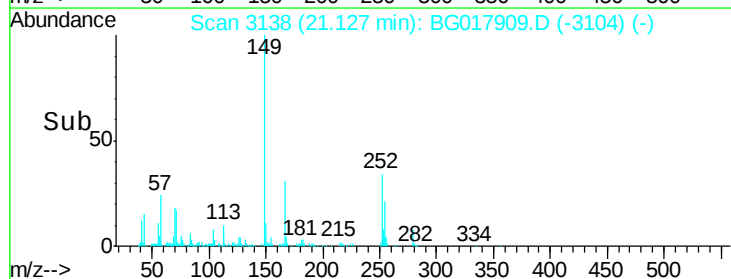
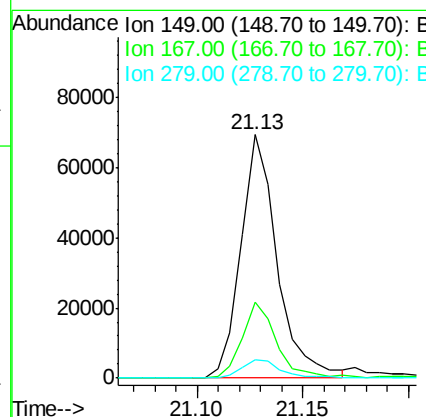
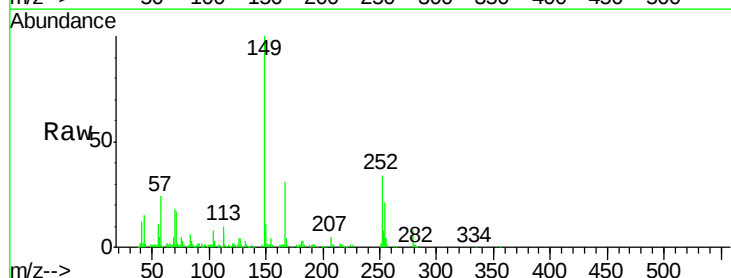
RT: 21.13 min Scan# 3138

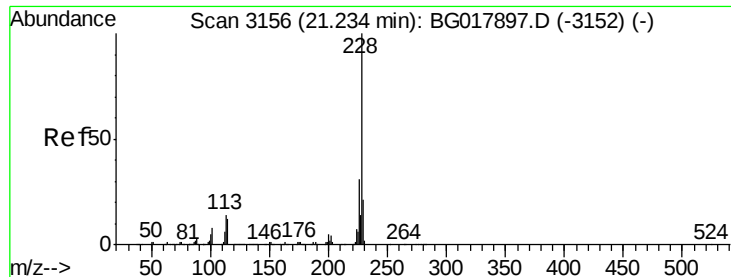
Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt	Ion	Ratio	Lower	Upper
149	100			
167	31.3	22.9	34.3	
279	7.6	5.8	8.6	





#84

Chrysene

Concen: 5.84 ng/ul

RT: 21.23 min Scan# 3156

Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

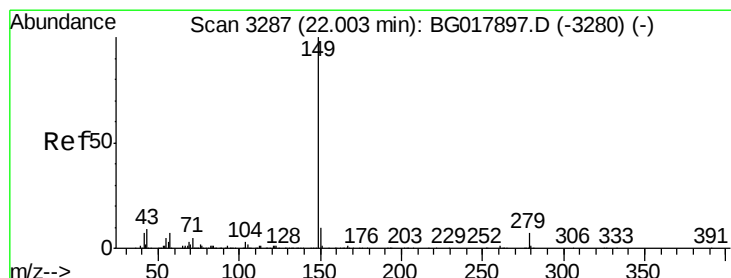
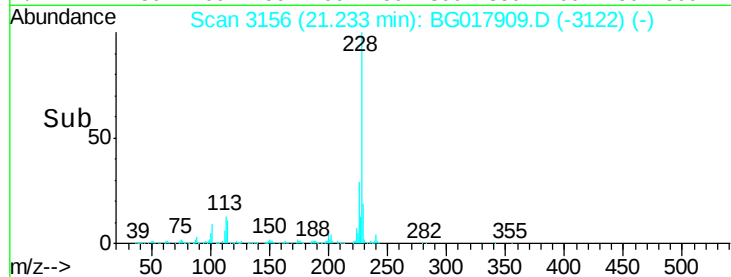
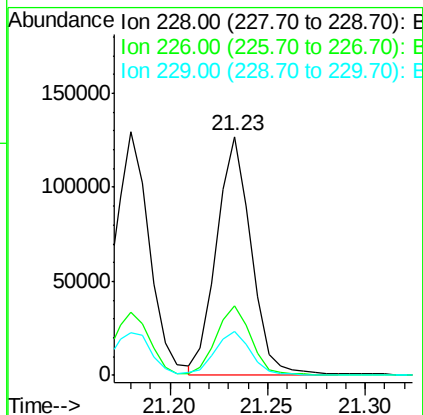
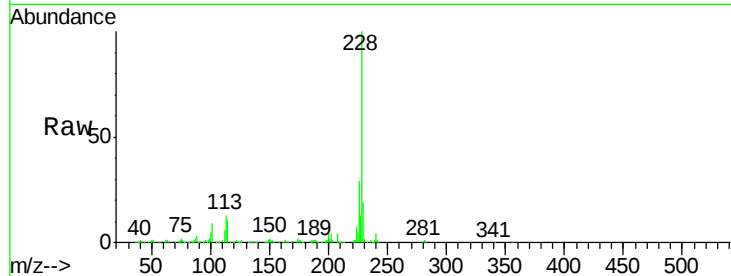
ClientSampleId :

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Tgt Ion:	228	Resp:	156481
Ion Ratio	Lower	Upper	
228	100		
226	29.4	24.3	36.5
229	18.6	15.4	23.2

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#86

Di-n-octyl phthalate

Concen: 4.45 ng/ul

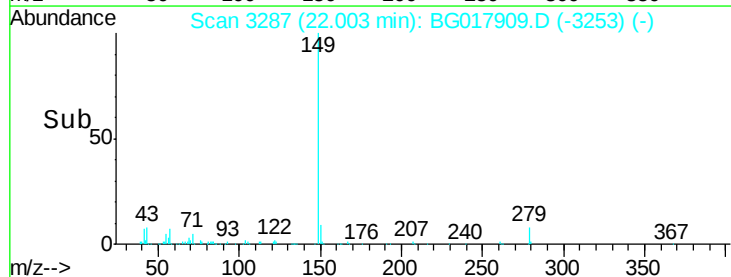
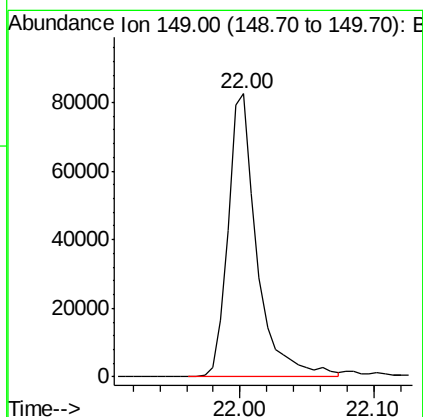
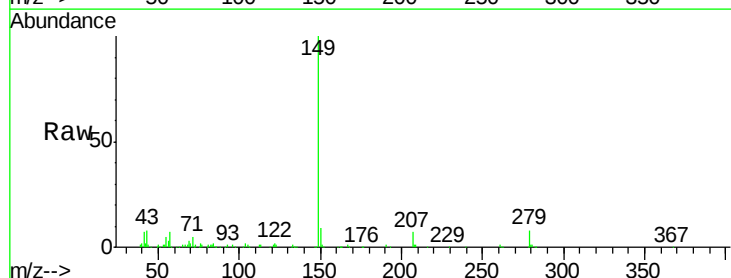
RT: 22.00 min Scan# 3287

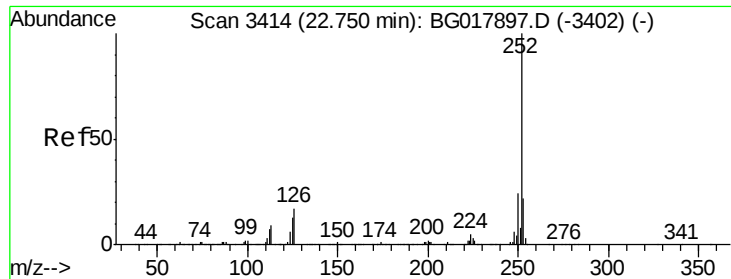
Delta R.T. -0.00 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion:149 Resp: 123980





#87

Benzo(b)fluoranthene

Concen: 5.66 ng/ul

RT: 22.74 min Scan# 3413

Delta R.T. -0.01 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Instrument :

BNA_G

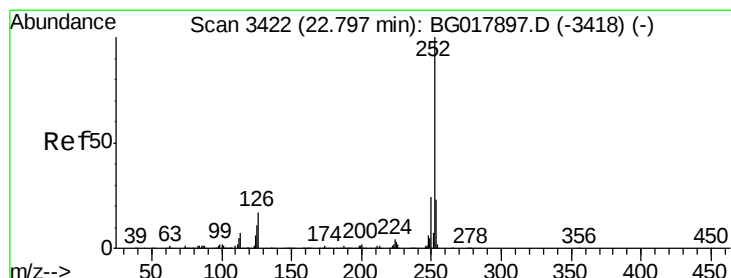
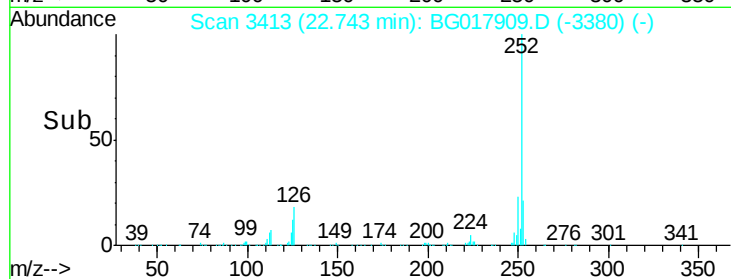
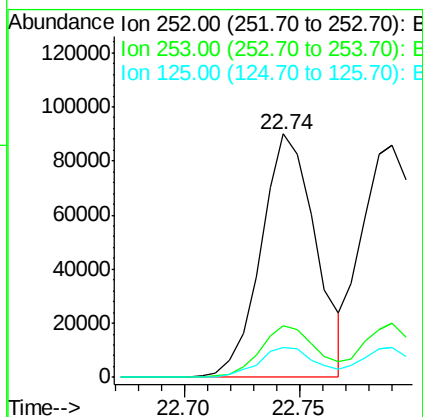
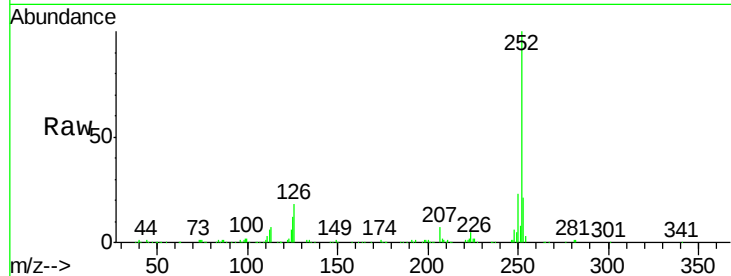
ClientSampleId :

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Tgt Ion:	252	Resp:	148469
Ion Ratio	Lower	Upper	
252	100		
253	21.0	17.6	26.4
125	12.5	11.5	17.3

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#88

Benzo(k)fluoranthene

Concen: 5.49 ng/ul

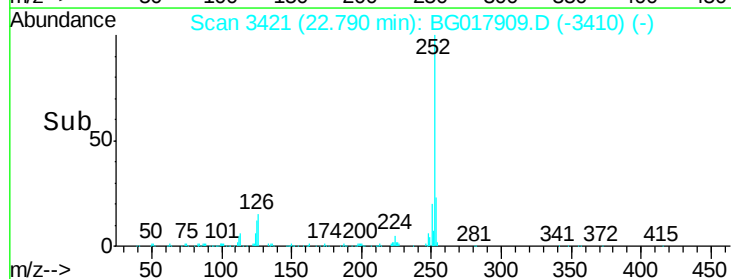
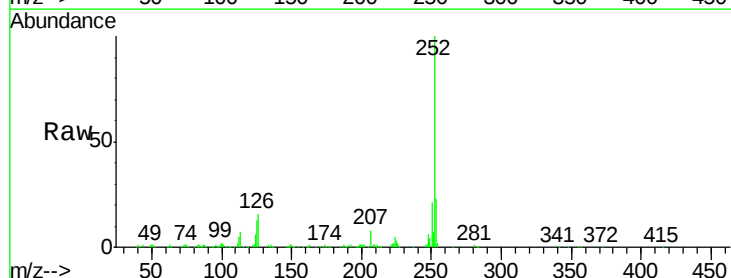
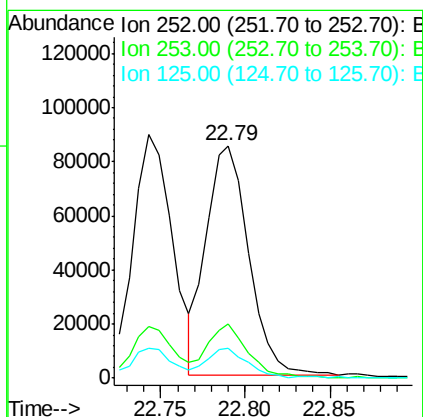
RT: 22.79 min Scan# 3421

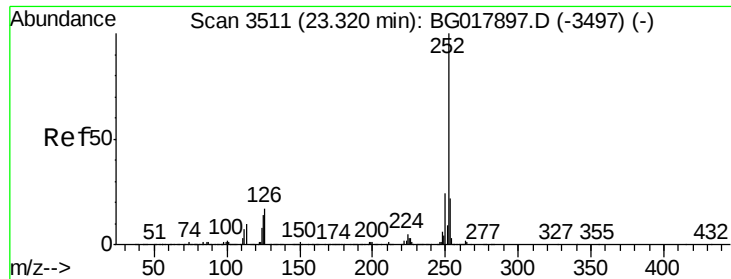
Delta R.T. -0.01 min

Lab File: BG017909.D

Acq: 16 Jul 2015 7:09

Tgt Ion:	252	Resp:	148624
Ion Ratio	Lower	Upper	
252	100		
253	23.1	17.4	26.0
125	13.0	13.1	19.7#





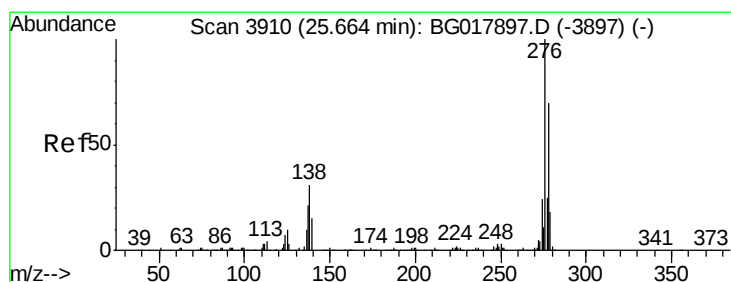
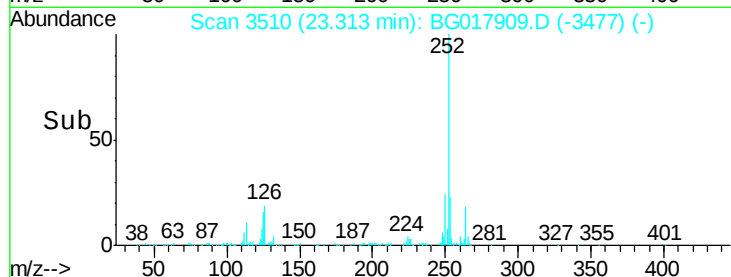
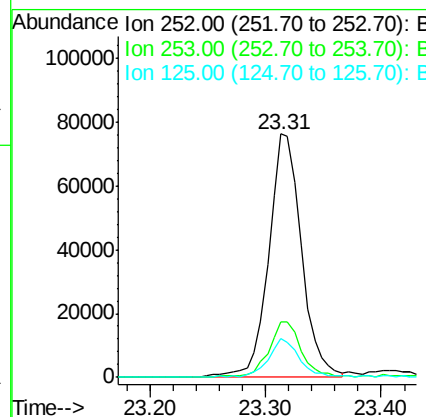
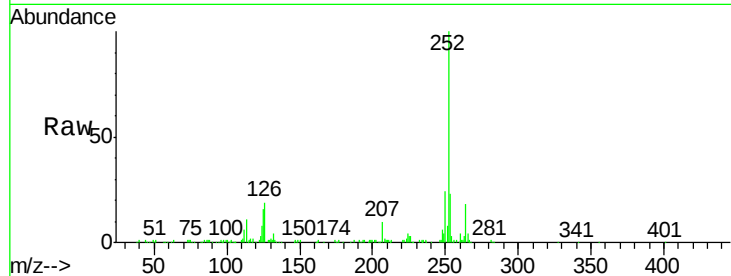
#90
Benzo(a)pyrene
Concen: 5.70 ng/ul
RT: 23.31 min Scan# 3510
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
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Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	22.8	16.6	25.0
125	16.1	11.8	17.8

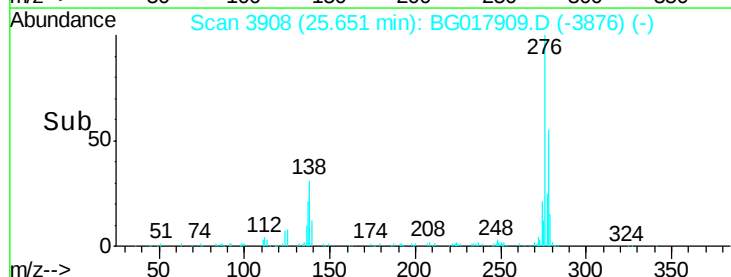
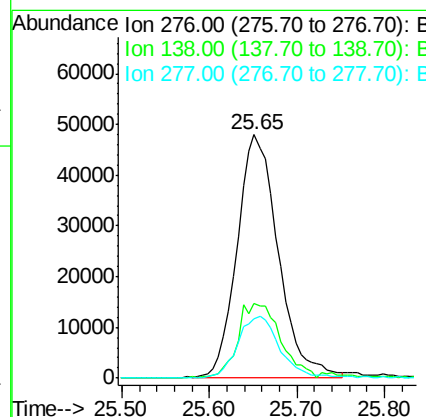
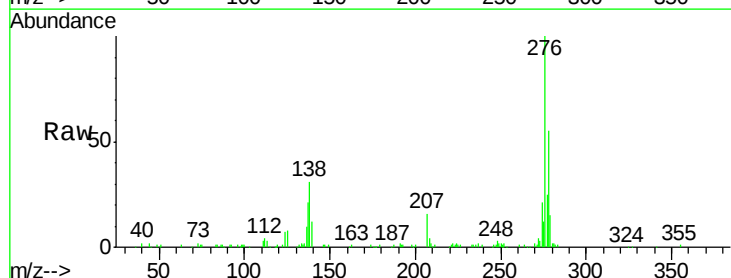
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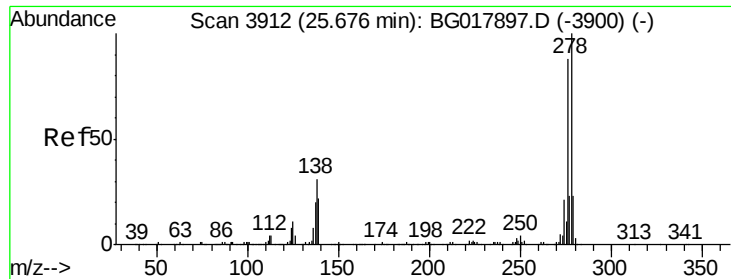
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#91
Indeno(1,2,3-cd)pyrene
Concen: 5.46 ng/ul
RT: 25.65 min Scan# 3908
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Resp Lower	Resp Upper
276	100		
138	30.8	29.4	44.0
277	24.6	20.7	31.1





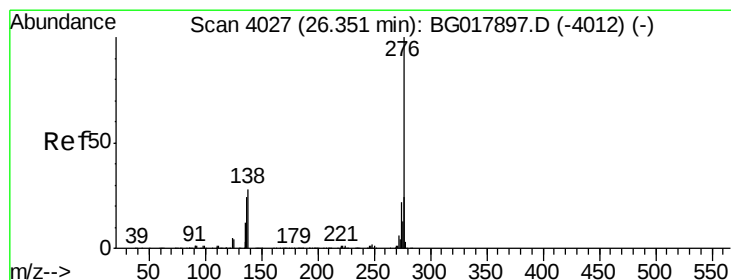
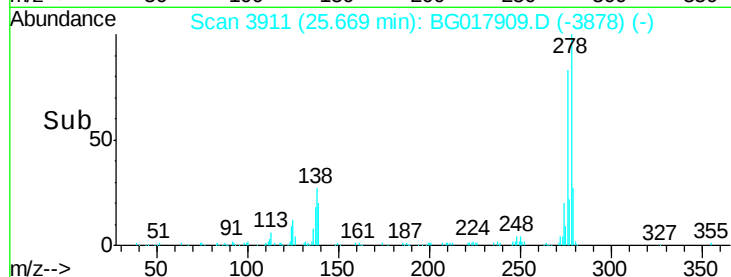
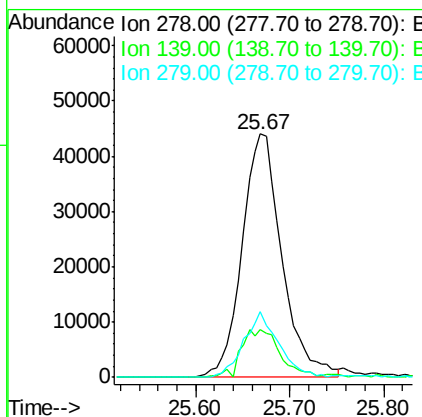
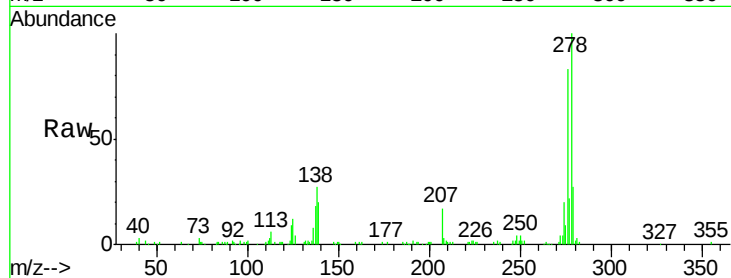
#92
Dibenzo(a,h)anthracene
Concen: 5.39 ng/ul
RT: 25.67 min Scan# 3911
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Instrument :
BNA_G
ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.6	18.4	27.6
279	26.9	19.4	29.0

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#93
Benzo(g,h,i)perylene
Concen: 5.57 ng/ul
RT: 26.34 min Scan# 4025
Delta R.T. -0.01 min
Lab File: BG017909.D
Acq: 16 Jul 2015 7:09

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.6	22.2	33.4
277	21.6	18.4	27.6

