

Data Path : Z:\HPCHEM1\BNA G\DATA\BG032416\
 Data File : BG021486.D
 Acq On : 24 Mar 2016 15:41
 Operator : UM/SJ
 Sample : H1909-21
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 A4T55

Manual Integrations
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Sohil
 3/25/2016 3:01:09 PM

Quant Time: Mar 25 13:24:45 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG031616.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Mar 25 01:02:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.07	152	6818	20.00	ng/ul	0.01
18) Naphthalene-d8	10.87	136	34805	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.68	164	22688	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.41	188	55881m	20.00	ng/ul	0.00
78) Chrysene-d12	21.67	240	65119	20.00	ng/ul	0.00
86) Perylene-d12	24.88	264	64434	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.47	96	376	2.47	ng/uL	0.01
5) Phenol-d5	7.34	99	15928	24.71	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.39	67	10950	28.68	ng/ul	0.01
9) 2-Chlorophenol-d4	7.64	132	13228	27.02	ng/ul	0.00
13) 4-Methylphenol-d8	8.85	113	14467	26.20	ng/ul	0.00
19) Nitrobenzene-d5	9.23	128	7286	27.90	ng/ul	0.00
22) 2-Nitrophenol-d4	9.95	143	7015	23.50	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.57	165	13407	25.13	ng/ul	0.01
29) 4-Chloroaniline-d4	11.02	131	3307	4.74	ng/ul	0.01
44) Dimethylphthalate-d6	14.08	166	36680	19.42	ng/ul	0.00
47) Acenaphthylene-d8	14.37	160	68500	29.42	ng/ul	0.00
52) 4-Nitrophenol-d4	15.08	143	6388	21.16	ng/ul	0.00
58) Fluorene-d10	15.66	176	52131	30.61	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.79	200	4525	12.26	ng/ul	0.00
71) Anthracene-d10	17.51	188	94994	34.69	ng/ul	0.00
79) Pyrene-d10	19.79	212	115588	38.06	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.66	264	120210	40.42	ng/ul	0.00

Target Compounds

					Ovalue
4) Benzaldehyde	7.21	77	17528	44.63	ng/ul 98
10) 2-Chlorophenol	7.67	128	2378	4.73	ng/ul# 89
23) 2-Nitrophenol	9.99	139	10878	33.01	ng/ul 95
28) Naphthalene	10.92	128	13495	7.31	ng/ul 96
31) Hexachlorobutadiene	11.19	225	6724	16.48	ng/ul 93
33) 4-Chloro-3-methylphenol	12.24	107	11967	17.69	ng/ul 100
37) 1,2,4,5-Tetrachlorobenzene	12.88	216	5512	6.94	ng/ul# 91
39) 2,4,6-Trichlorophenol	13.15	196	8127	17.41	ng/ul# 91
41) 1,1'-Biphenyl	13.51	154	41751	22.50	ng/ul 94
45) Dimethylphthalate	14.12	163	37809	19.26	ng/ul 98
46) 2,6-Dinitrotoluene	14.26	165	6133	15.31	ng/ul 96
53) 4-Nitrophenol	15.09	109	10135m	32.35	ng/ul
54) Dibenzofuran	15.08	168	21901	9.82	ng/ul# 78
64) 4,6-Dinitro-2-methylphenol	15.80	198	3582	9.19	ng/ul# 99
67) Hexachlorobenzene	16.72	284	6318	9.18	ng/ul 93
69) Pentachlorophenol	17.09	266	3313	18.20	ng/ul 94
70) Phenanthrene	17.46	178	85802m	27.11	ng/ul
72) Anthracene	17.55	178	36481	11.33	ng/ul 97
76) Di-n-butylphthalate	18.36	149	49413	13.75	ng/ul 98
77) Fluoranthene	19.46	202	88745m	23.24	ng/ul
80) Pyrene	19.82	202	92971	23.96	ng/ul# 94
84) Bis(2-ethylhexyl)phthalate	21.53	149	56802	23.70	ng/ul 97
85) Chrysene	21.72	228	77555	20.83	ng/ul 98

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Quant Time: Mar 25 13:24:45 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG031616.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Mar 25 01:02:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(a)pyrene	24.73	252	69261	17.24	ng/ul#	96
92) Indeno(1,2,3-cd)pyrene	28.52	276	90514	19.82	ng/ul#	94
93) Dibenzo(a,h)anthracene	28.58	278	47116	12.13	ng/ul#	95

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

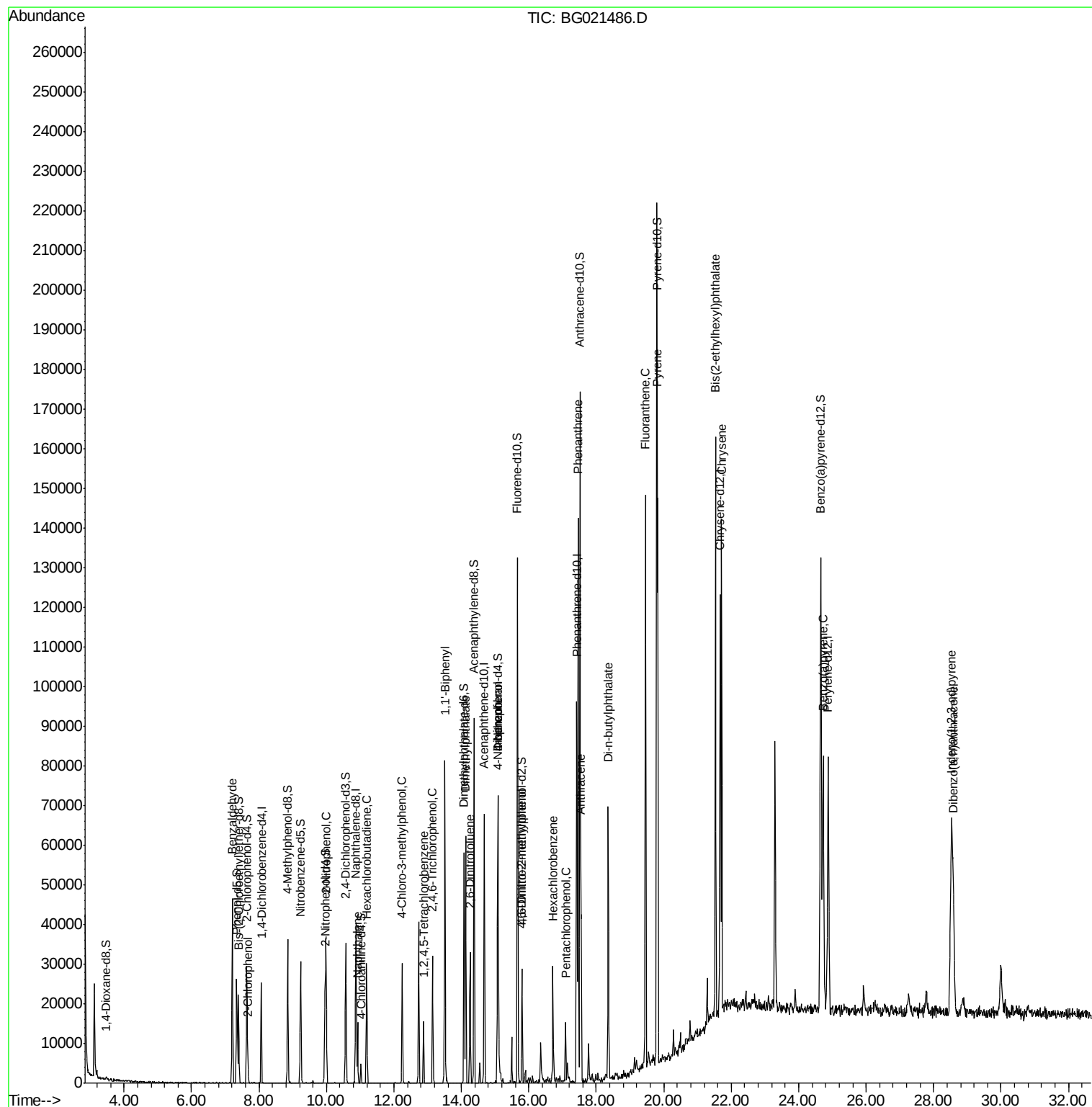
Data Path : Z:\HPCHEM1\BNA G\DATA\BG032416\
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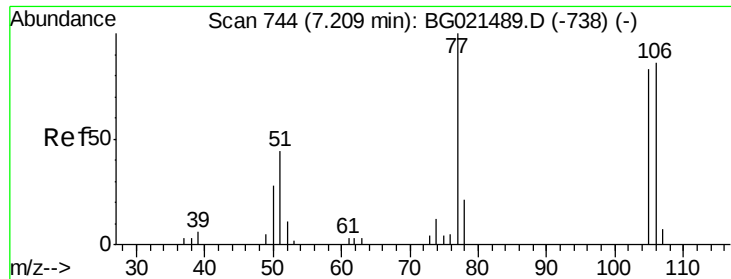
Instrument :
BNA_G
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Response via : Initial Calibration





#4

Benzaldehyde

Concen: 44.63 ng/ul

RT: 7.21 min Scan# 744

Delta R.T. 0.01 min

Lab File: BG021486.D

Acq: 24 Mar 2016 15:41

Instrument :

BNA_G

ClientSampled :

A4T55

Tot Ion: 77 Resp: 17528

Ion Ratio Lower Upper

77 100

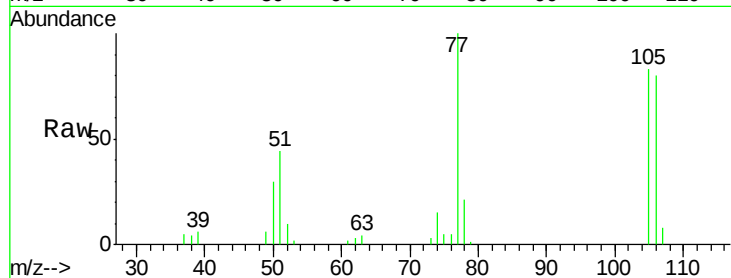
105 83.1 68.5 102.7

106 80.1 65.0 97.4

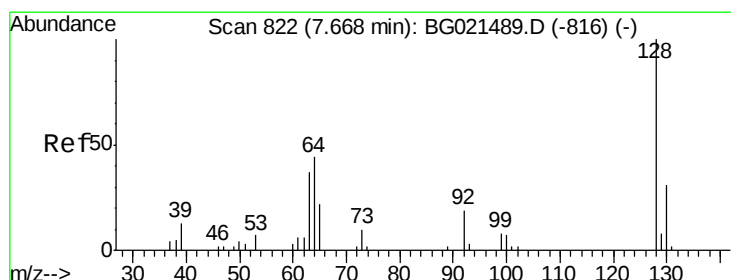
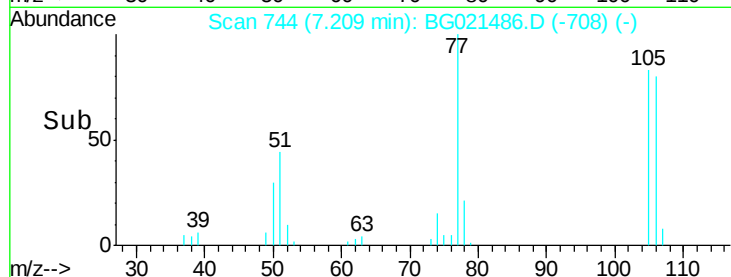
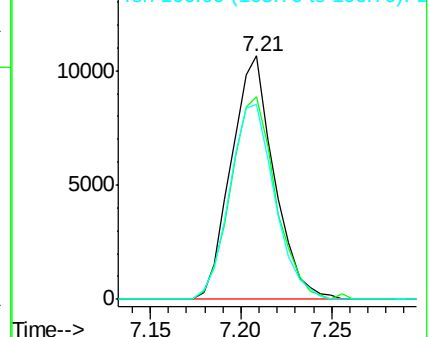
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Abundance Ion 77.00 (76.70 to 77.70): BGC
Ion 105.00 (104.70 to 105.70): BGC
Ion 106.00 (105.70 to 106.70): BGC



#10

2-Chlorophenol

Concen: 4.73 ng/ul

RT: 7.67 min Scan# 823

Delta R.T. 0.00 min

Lab File: BG021486.D

Acq: 24 Mar 2016 15:41

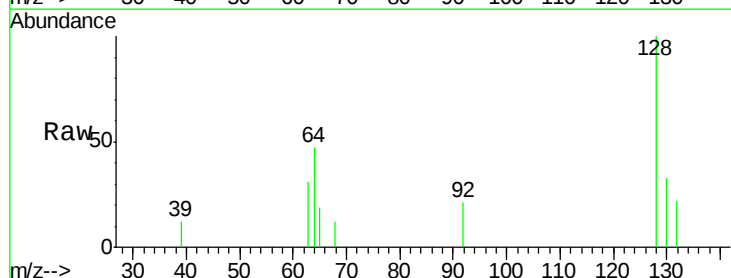
Tgt Ion: 128 Resp: 2378

Ion Ratio Lower Upper

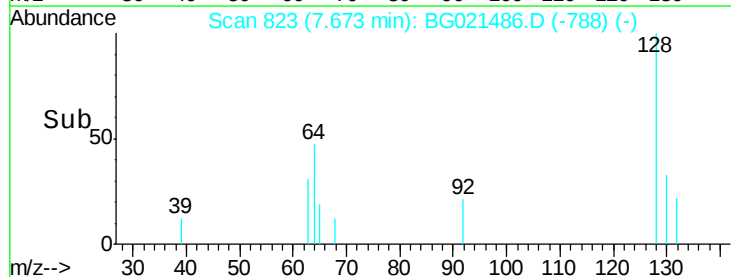
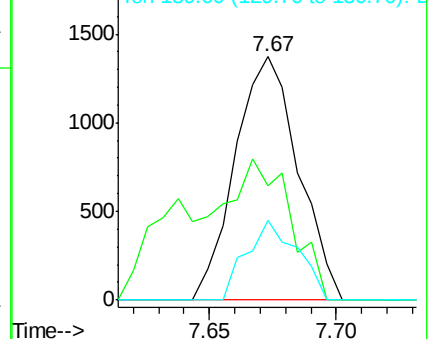
128 100

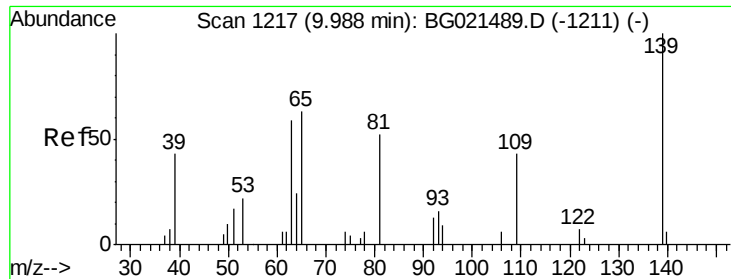
64 46.8 47.0 70.6#

130 32.9 27.8 41.6



Abundance Ion 128.00 (127.70 to 128.70): BGC
Ion 64.00 (63.70 to 64.70): BGC
Ion 130.00 (129.70 to 130.70): BGC





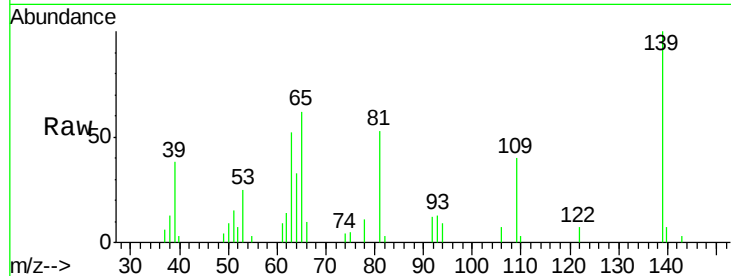
#23
2-Nitrophenol
Concen: 33.01 ng/ul
RT: 9.99 min Scan# 1217
Delta R.T. 0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Instrument :
BNA_G
ClientSampled :
A4T55

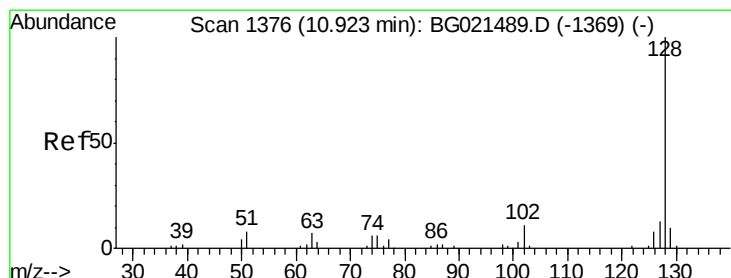
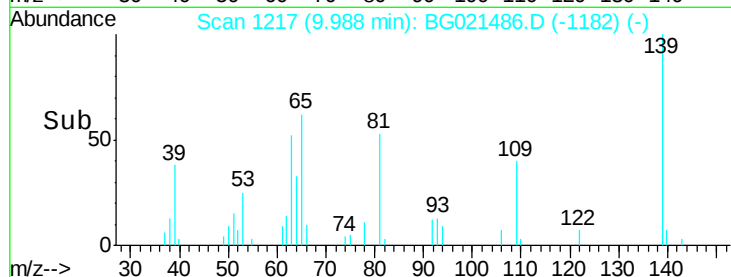
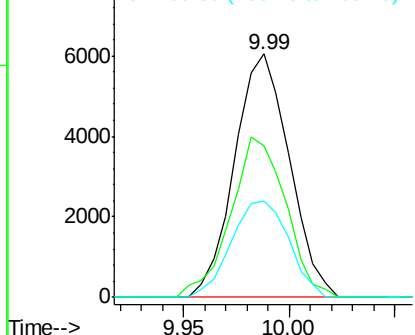
Tot Ion	Ratio	Resp	Lower	Upper
139	100	10878		
65	62.4	55.0	82.4	
109	39.8	31.4	47.2	

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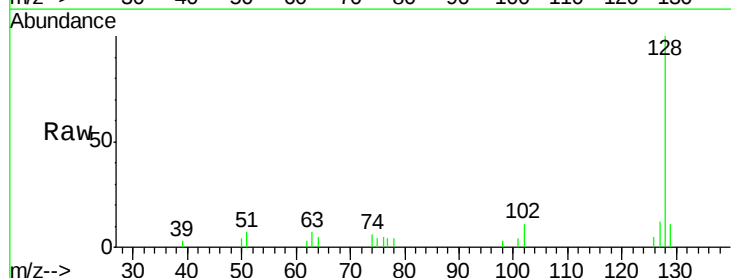


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BG
Ion 109.00 (108.70 to 109.70): E

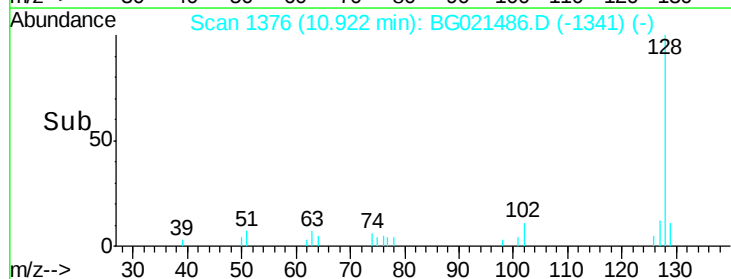
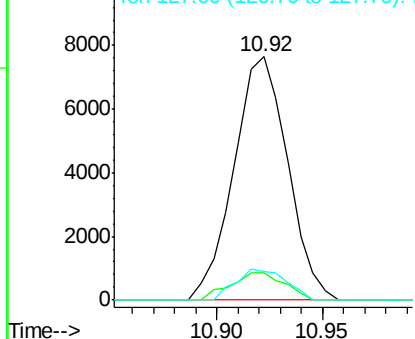


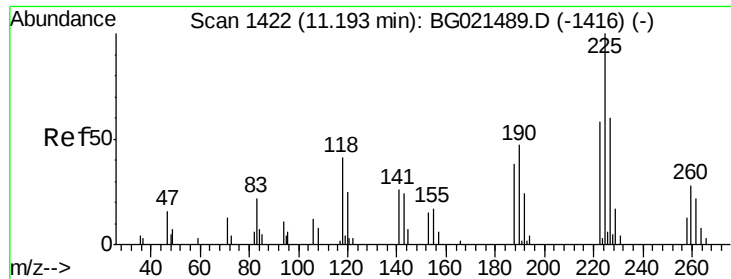
#28
Naphthalene
Concen: 7.31 ng/ul
RT: 10.92 min Scan# 1376
Delta R.T. 0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	13495		
129	11.4	8.3	12.5	
127	11.7	10.8	16.2	



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#31

Hexachlorobutadiene

Concen: 16.48 ng/ul

RT: 11.19 min Scan# 1422

Delta R.T. 0.00 min

Lab File: BG021486.D

Acq: 24 Mar 2016 15:41

Instrument :

BNA_G

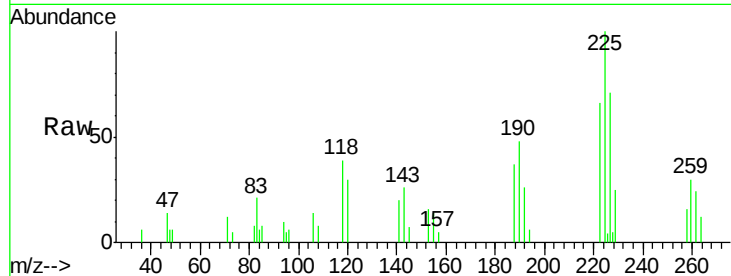
ClientSampled :

A4T55

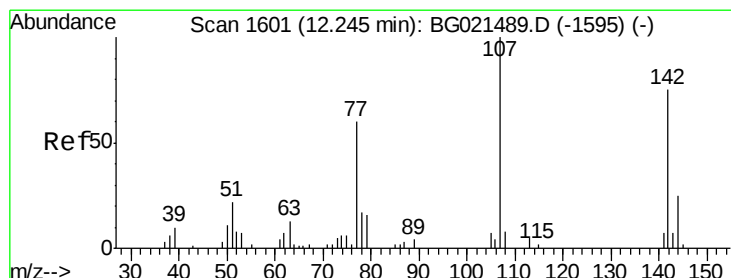
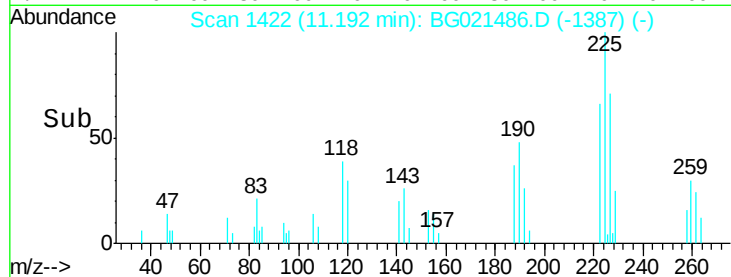
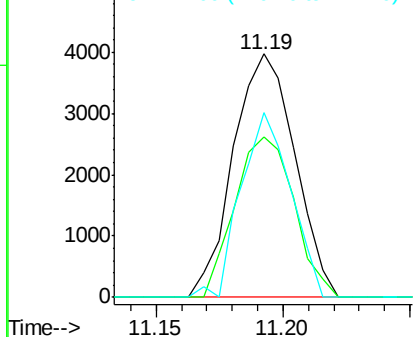
Tot Ion:	225	Resp:	6724
Ion Ratio	Lower	Upper	
225	100		
223	63.2	49.5	74.3
227	72.9	51.1	76.7

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Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E



#33

4-Chloro-3-methylphenol

Concen: 17.69 ng/ul

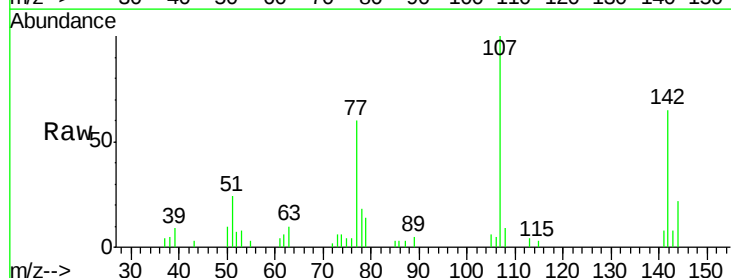
RT: 12.24 min Scan# 1600

Delta R.T. 0.00 min

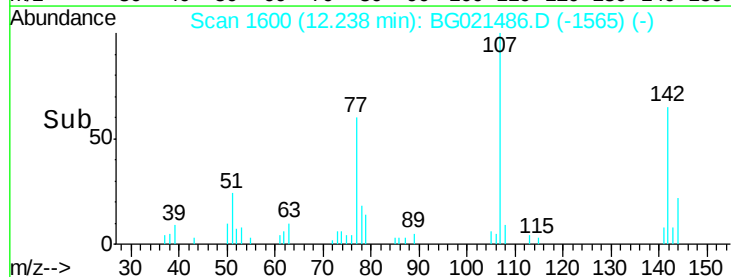
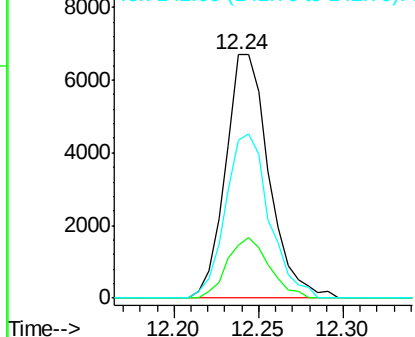
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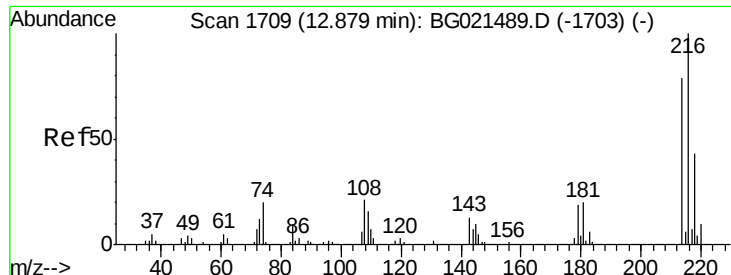
Acq: 24 Mar 2016 15:41

Tgt Ion:	107	Resp:	11967
Ion Ratio	Lower	Upper	
107	100		
144	21.7	17.2	25.8
142	64.9	52.0	78.0



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





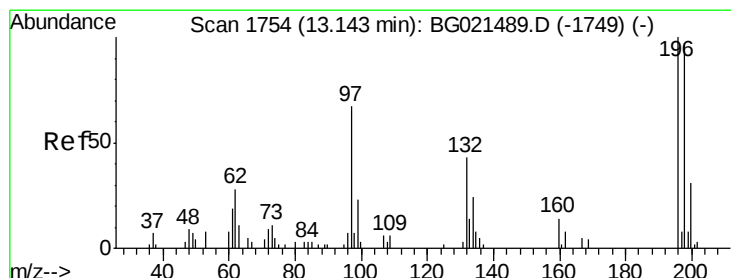
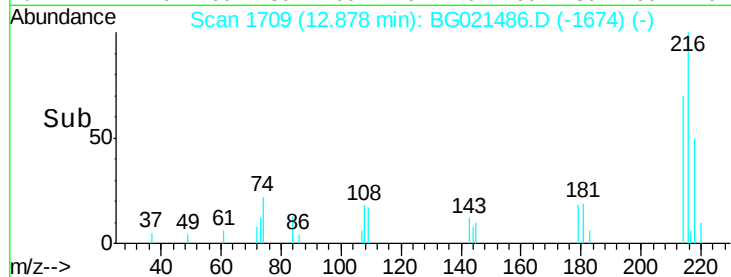
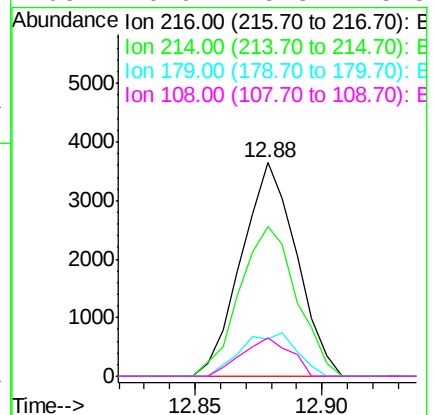
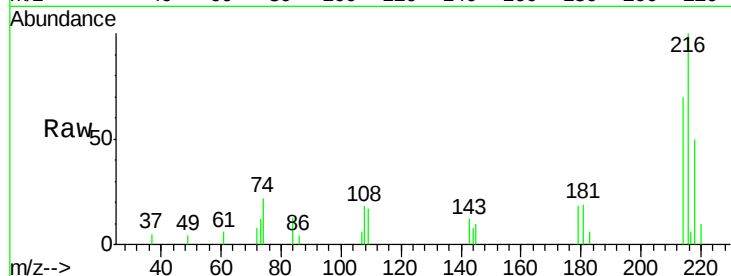
#37
 1,2,4,5-Tetrachlorobenzene
 Concen: 6.94 ng/ul
 RT: 12.88 min Scan# 1709
 Delta R.T. 0.00 min
 Lab File: BG021486.D
 Acq: 24 Mar 2016 15:41

Instrument :
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Tot Ion	Ratio	Lower	Upper
216	100		
214	66.0	57.8	86.8
179	16.5	19.5	29.3
108	16.9	15.8	23.8

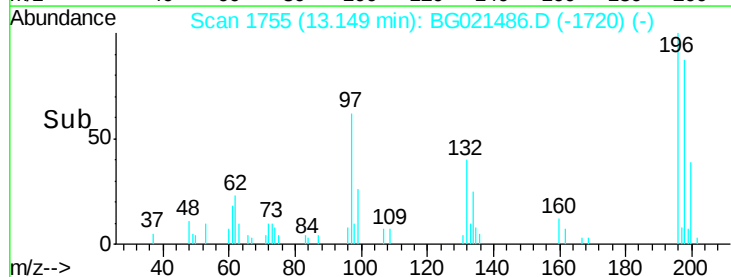
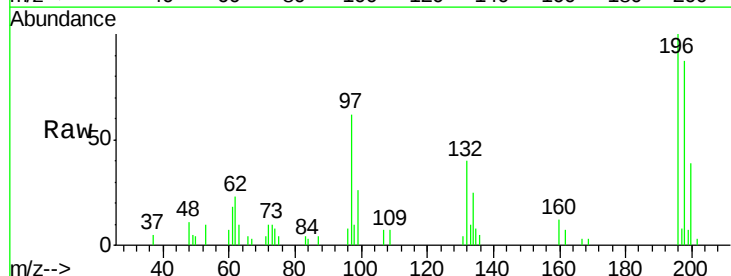
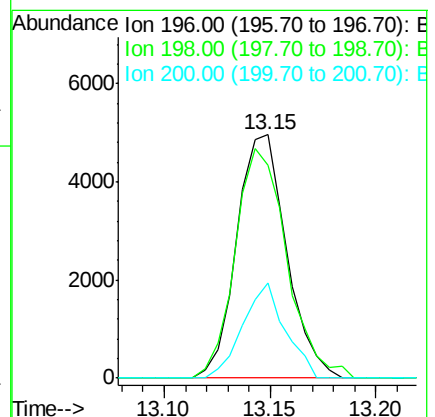
Manual Integrations
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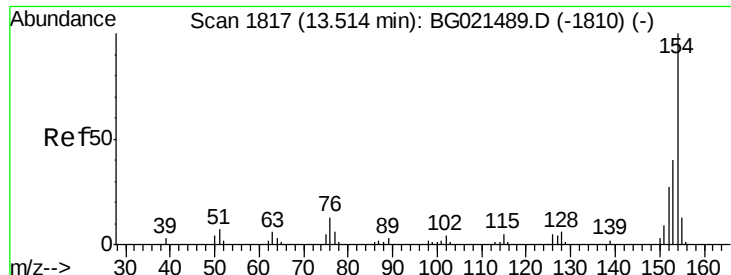
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#39
 2,4,6-Trichlorophenol
 Concen: 17.41 ng/ul
 RT: 13.15 min Scan# 1755
 Delta R.T. 0.00 min
 Lab File: BG021486.D
 Acq: 24 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
196	100		
198	87.5	74.3	111.5
200	39.0	22.8	34.2





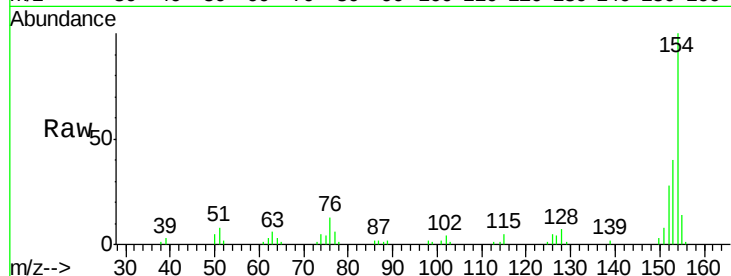
#41
 1,1'-Biphenyl
 Concen: 22.50 ng/ul
 RT: 13.51 min Scan# 1817
 Delta R.T. -0.00 min
 Lab File: BG021486.D
 Acq: 24 Mar 2016 15:41

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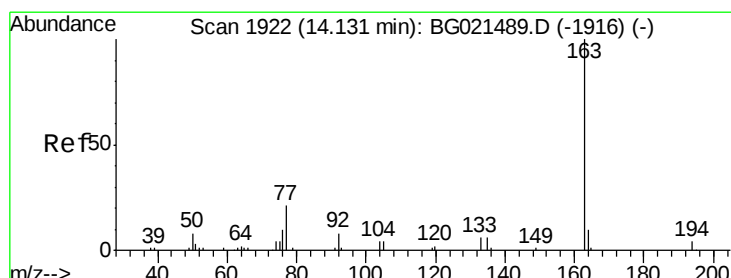
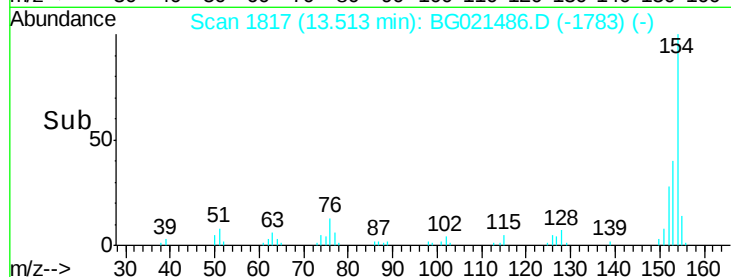
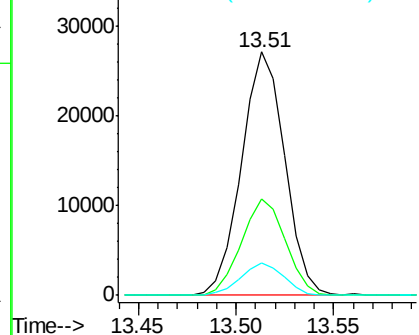
Tot Ion	Ratio	Lower	Upper
154	100		
153	39.7	35.4	53.2
76	13.3	12.1	18.1

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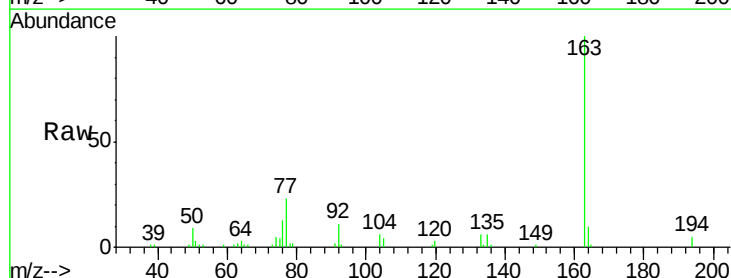


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): B

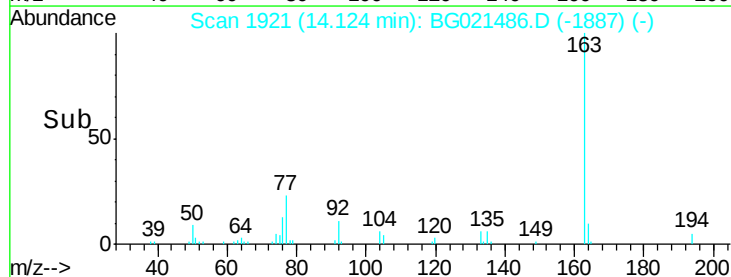
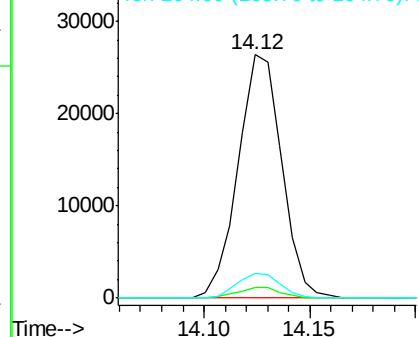


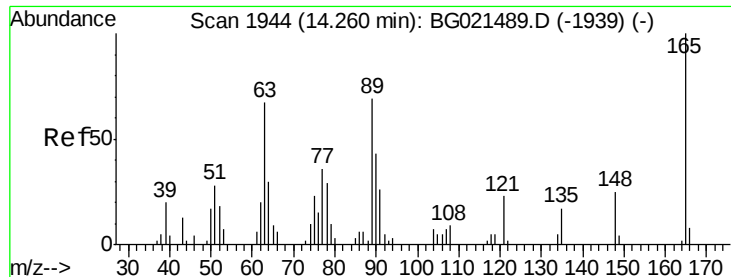
#45
 Dimethylphthalate
 Concen: 19.26 ng/ul
 RT: 14.12 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: BG021486.D
 Acq: 24 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.9	5.9
164	10.0	8.7	13.1



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





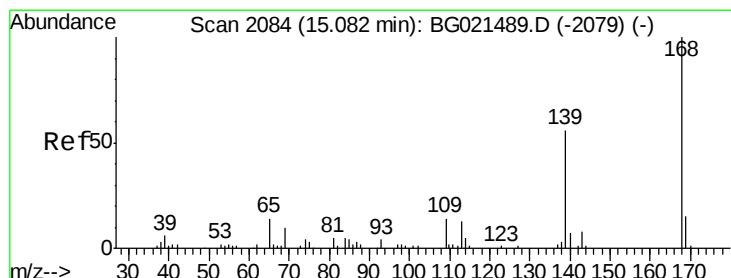
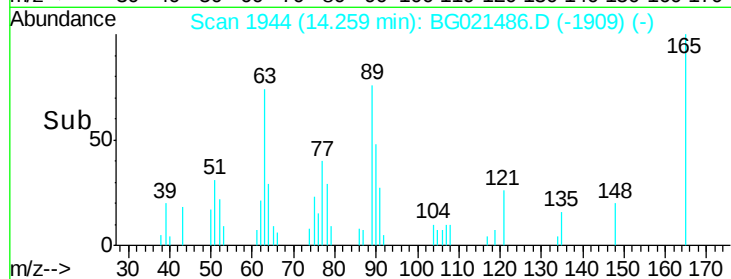
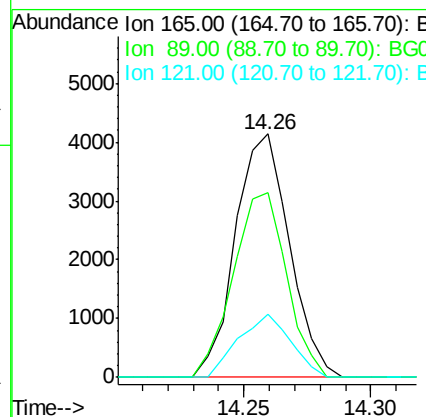
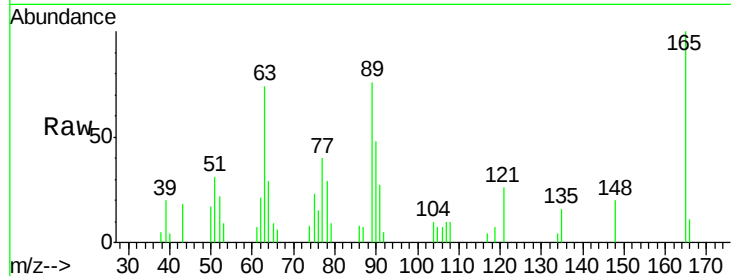
#46
 2,6-Dinitrotoluene
 Concen: 15.31 ng/ul
 RT: 14.26 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: BG021486.D
 Acq: 24 Mar 2016 15:41

Instrument :
 BNA_G
 ClientSampled :
 A4T55

Tot Ion	Ratio	Resp	Lower	Upper
165	100	6133		
89	75.8	64.6	96.8	
121	25.7	20.4	30.6	

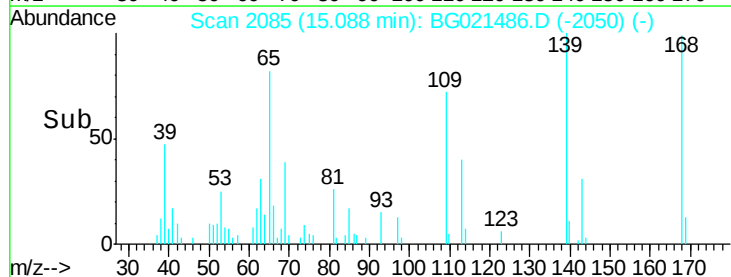
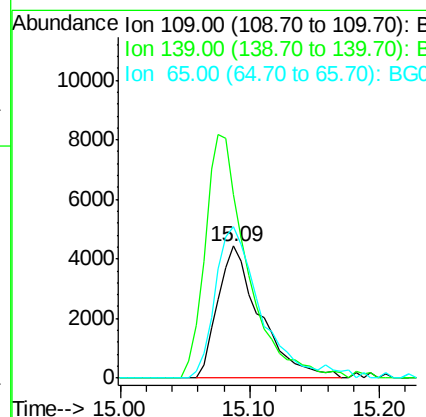
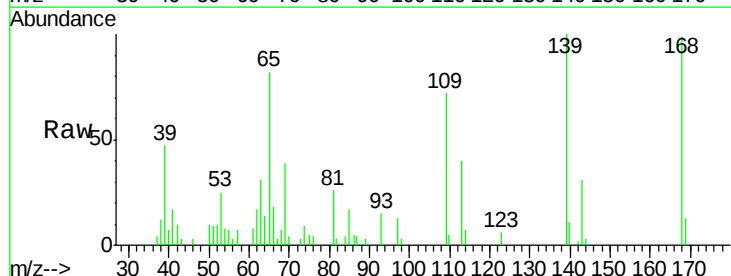
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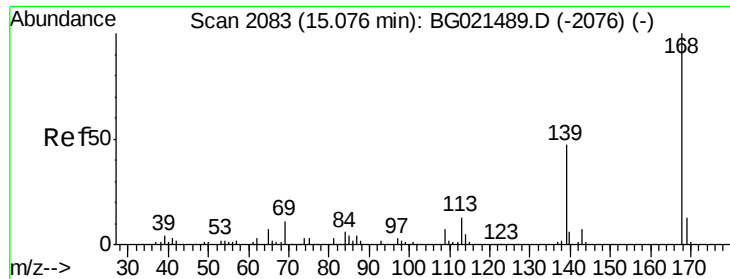
Sohil
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#53
 4-Nitrophenol
 Concen: 32.35 ng/ul m
 RT: 15.09 min Scan# 2085
 Delta R.T. 0.00 min
 Lab File: BG021486.D
 Acq: 24 Mar 2016 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
109	100	10135		
139	139.2	75.9	113.9#	
65	114.7	99.8	149.8	





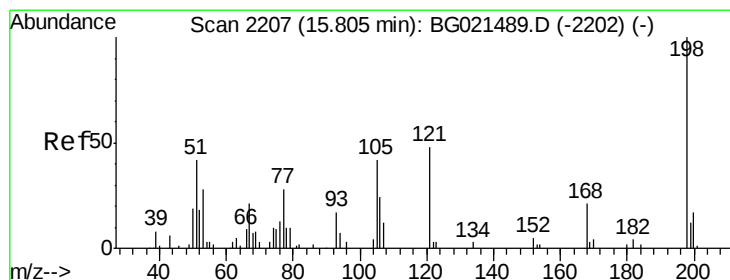
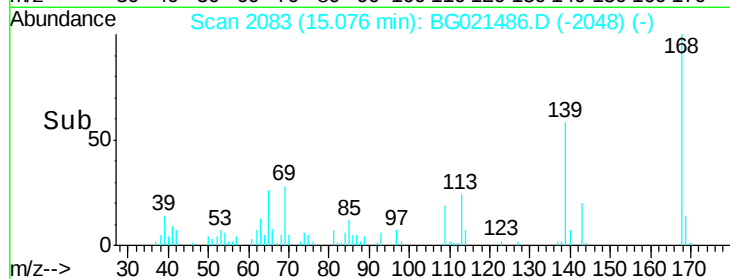
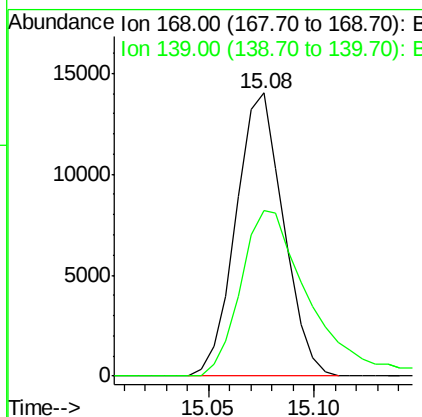
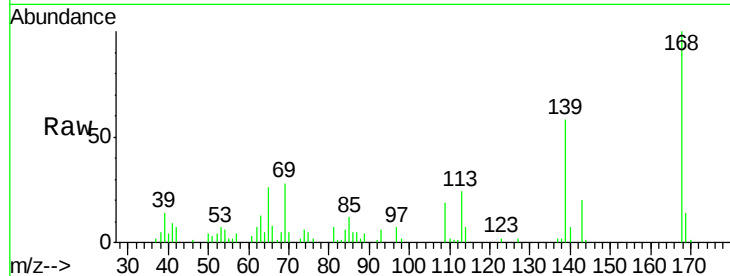
#54
Dibenzofuran
Concen: 9.82 ng/ul
RT: 15.08 min Scan# 2083
Delta R.T. 0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Instrument :
BNA_G
ClientSampleId :
A4T55

Tot Ion:168 Resp: 21901
Ion Ratio Lower Upper
168 100
139 58.3 35.2 52.8#

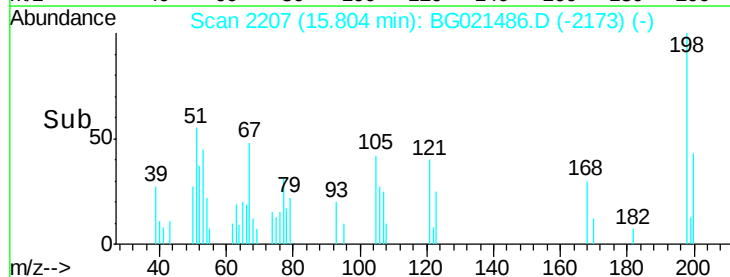
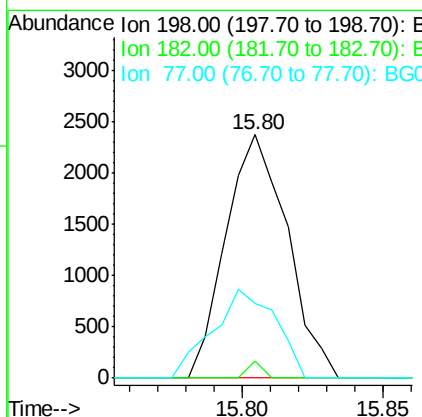
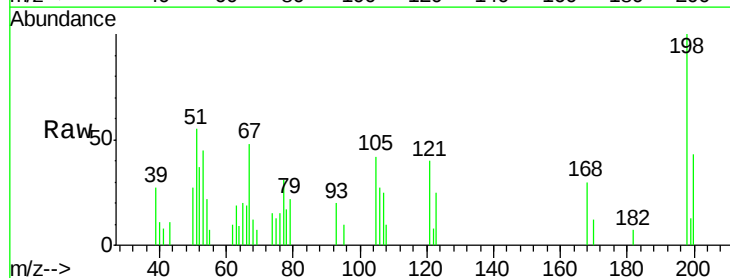
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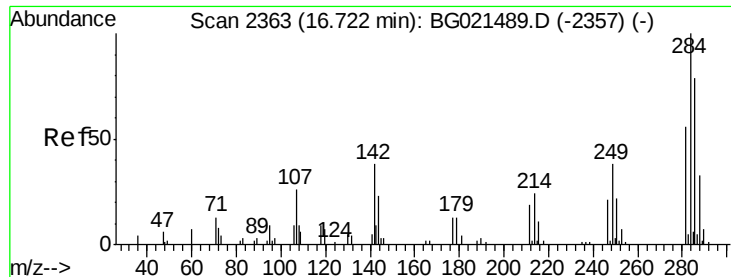
Sohil
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#64
4,6-Dinitro-2-methylphenol
Concen: 9.19 ng/ul
RT: 15.80 min Scan# 2207
Delta R.T. -0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Tgt Ion:198 Resp: 3582
Ion Ratio Lower Upper
198 100
182 7.1 3.8 5.8#
77 30.5 24.2 36.4





#67

Hexachlorobenzene

Concen: 9.18 ng/ul

RT: 16.72 min Scan# 2362

Delta R.T. -0.00 min

Lab File: BG021486.D

Acq: 24 Mar 2016 15:41

Instrument :

BNA_G

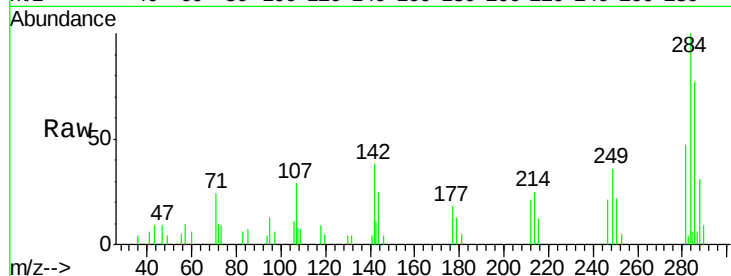
ClientSampleId :

A4T55

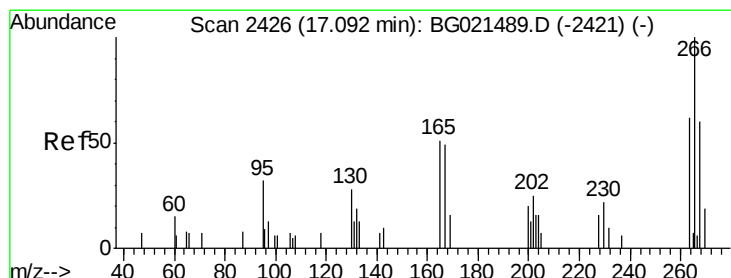
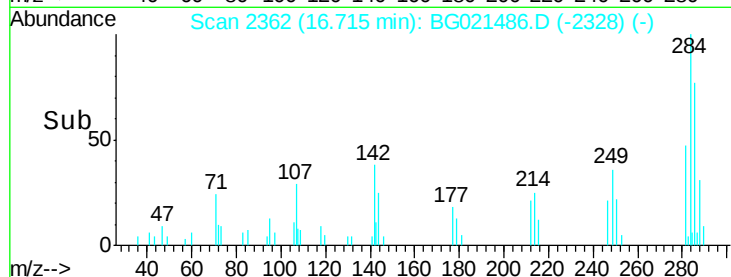
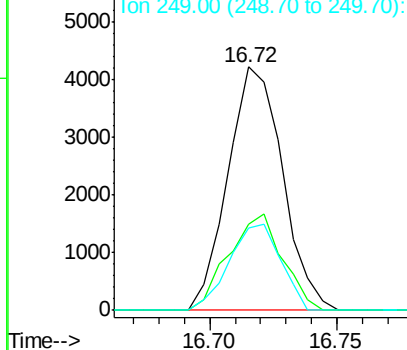
Tot Ion:	284	Resp:	6318
Ion Ratio	Lower	Upper	
284	100		
142	35.4	33.8	50.6
249	33.9	28.9	43.3

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Abundance Ion 284.00 (283.70 to 284.70): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



#69

Pentachlorophenol

Concen: 18.20 ng/ul

RT: 17.09 min Scan# 2426

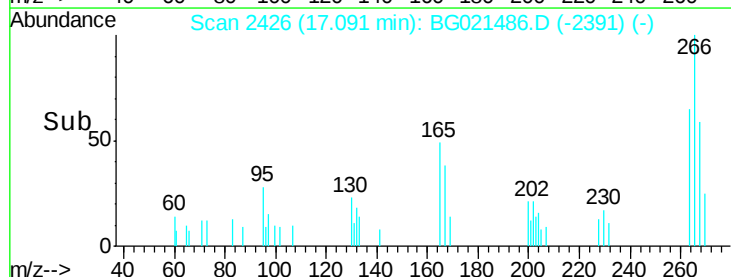
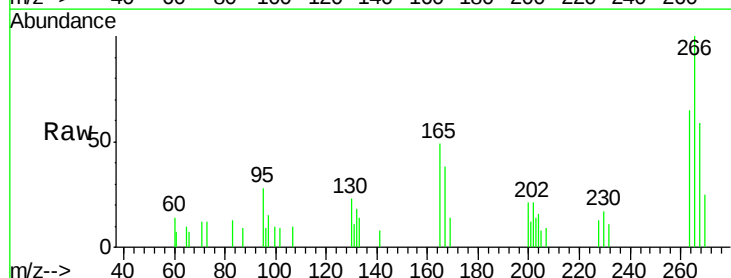
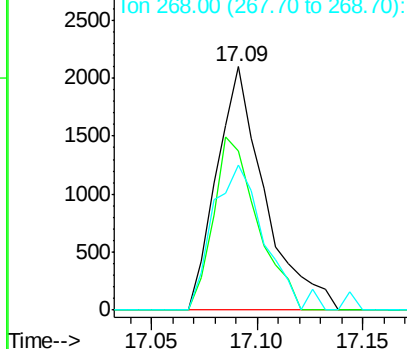
Delta R.T. 0.00 min

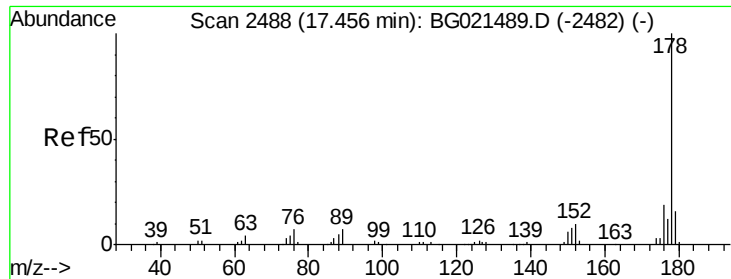
Lab File: BG021486.D

Acq: 24 Mar 2016 15:41

Tgt Ion:	266	Resp:	3313
Ion Ratio	Lower	Upper	
266	100		
264	65.4	56.7	85.1
268	59.5	50.6	76.0

Abundance Ion 265.70 (265.40 to 266.40): E
Ion 264.00 (263.70 to 264.70): E
Ion 268.00 (267.70 to 268.70): E





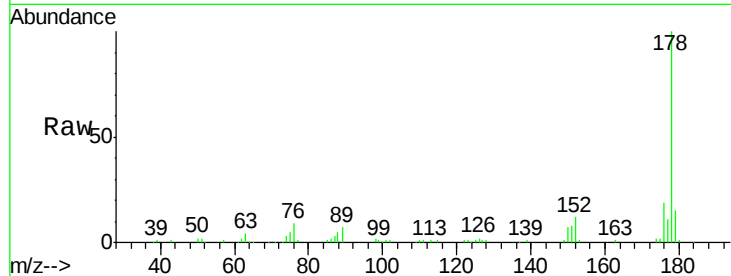
#70
Phenanthrene
Concen: 27.11 ng/ul m
RT: 17.46 min Scan# 2488
Delta R.T. -0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Instrument :
BNA_G
ClientSampleId :
A4T55

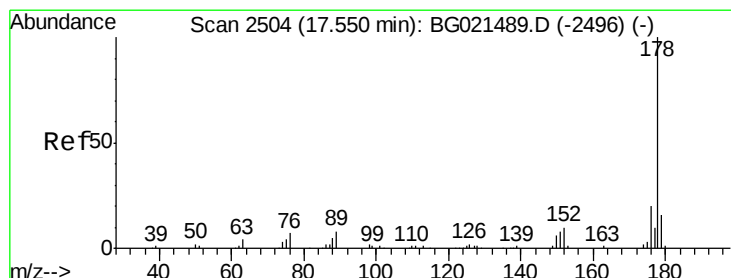
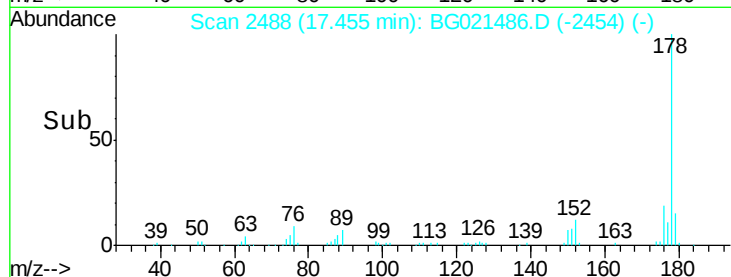
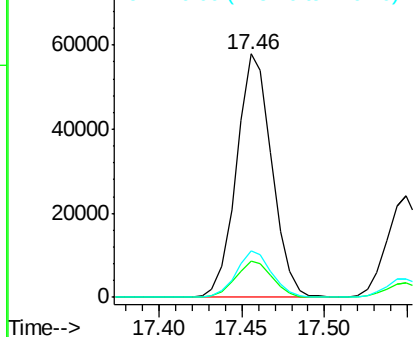
Tot Ion	Ratio	Lower	Upper
178	100		
179	14.8	11.8	17.8
176	19.3	14.8	22.2

Manual Integrations
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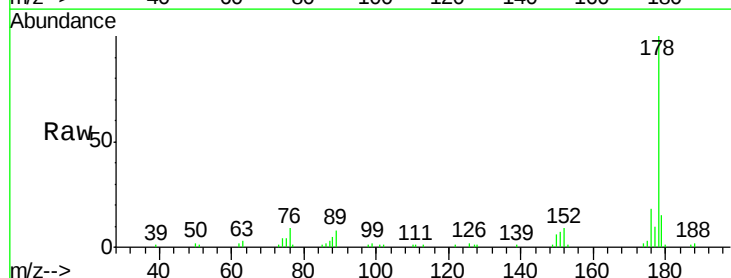


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E

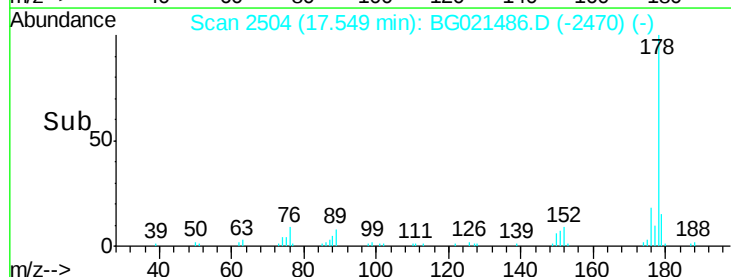
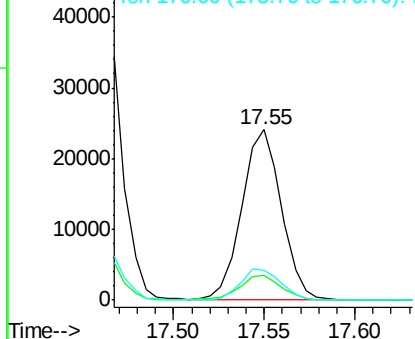


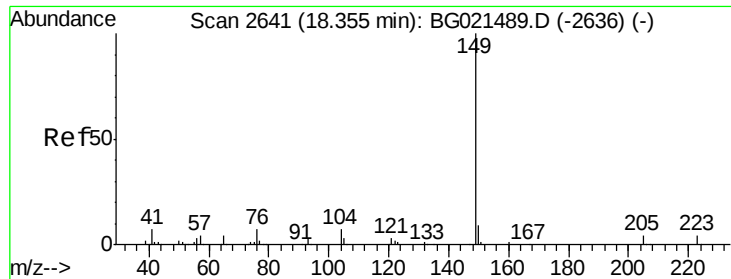
#72
Anthracene
Concen: 11.33 ng/ul
RT: 17.55 min Scan# 2504
Delta R.T. -0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
178	100		
179	14.8	12.9	19.3
176	17.9	15.6	23.4



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E





#76

Di-n-butylphthalate

Concen: 13.75 ng/ul

RT: 18.36 min Scan# 2642

Delta R.T. 0.00 min

Lab File: BG021486.D

Acq: 24 Mar 2016 15:41

Instrument :

BNA_G

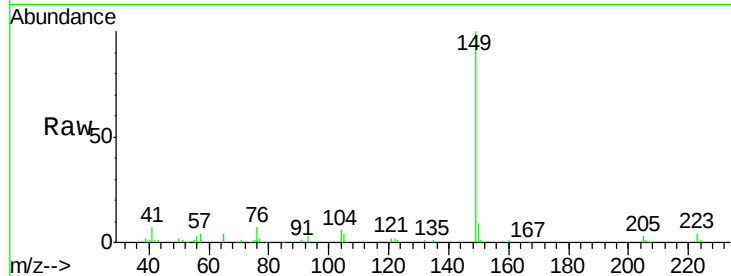
ClientSampled :

A4T55

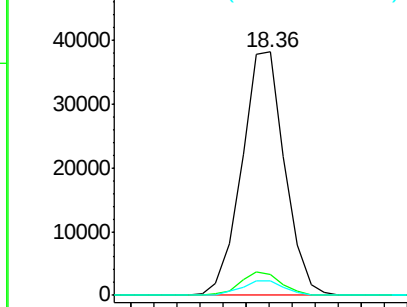
Tot Ion:	149	Resp:	49413
Ion Ratio	Lower	Upper	
149	100		
150	8.8	7.5	11.3
104	6.2	5.4	8.2

Manual Integrations
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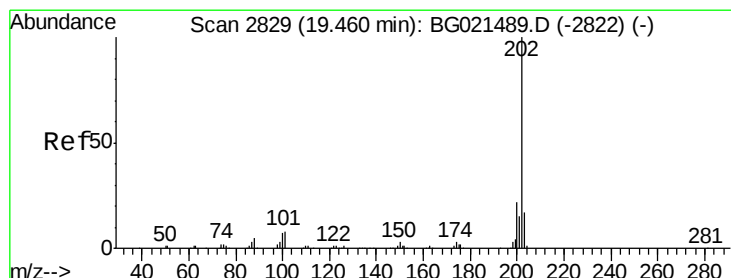
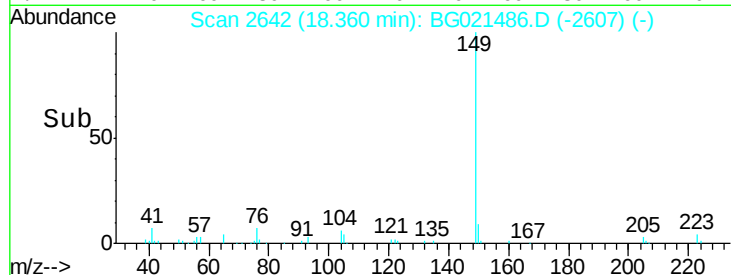
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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 104.00 (103.70 to 104.70): E



Time--> 18.30 18.35 18.40



#77

Fluoranthene

Concen: 23.24 ng/ul m

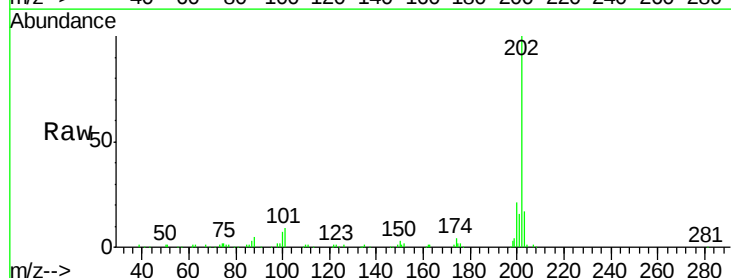
RT: 19.46 min Scan# 2829

Delta R.T. -0.00 min

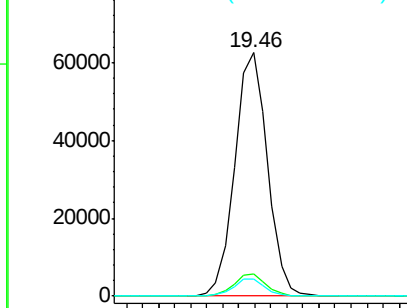
Lab File: BG021486.D

Acq: 24 Mar 2016 15:41

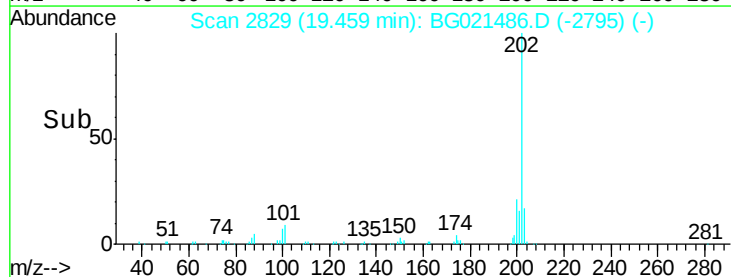
Tgt Ion:	202	Resp:	88745
Ion Ratio	Lower	Upper	
202	100		
101	8.8	8.9	13.3#
100	7.2	7.0	10.4

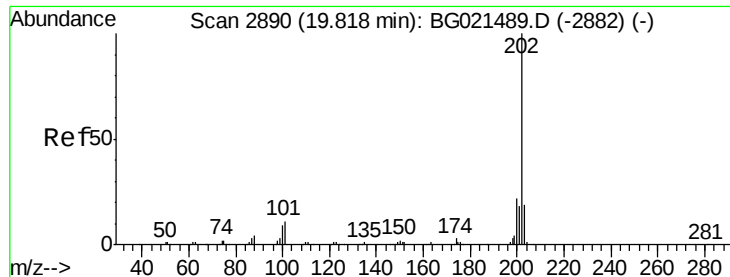


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



Time--> 19.40 19.45 19.50





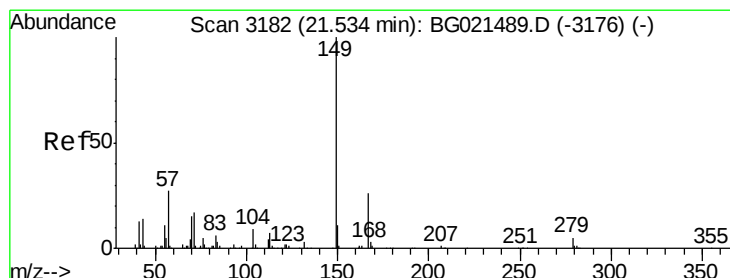
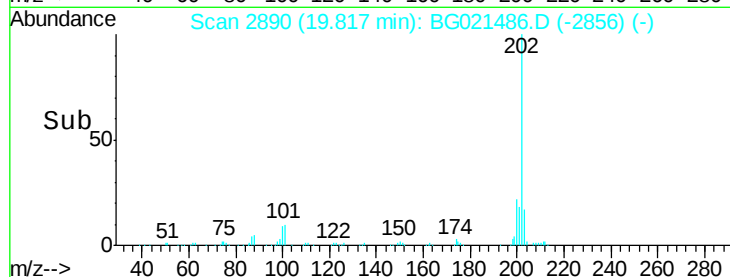
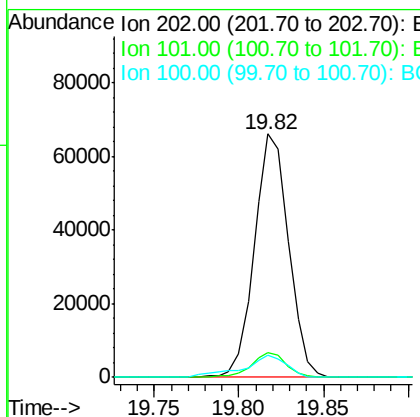
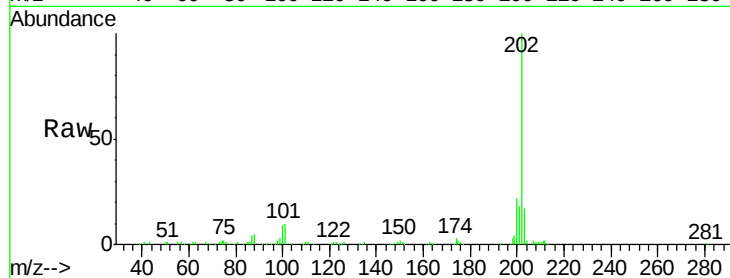
#80
Pvrene
Concen: 23.96 ng/ul
RT: 19.82 min Scan# 2890
Delta R.T. -0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Instrument :
BNA_G
ClientSampleId :
A4T55

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	10.3	9.8	14.8
100	8.9	9.3	13.9

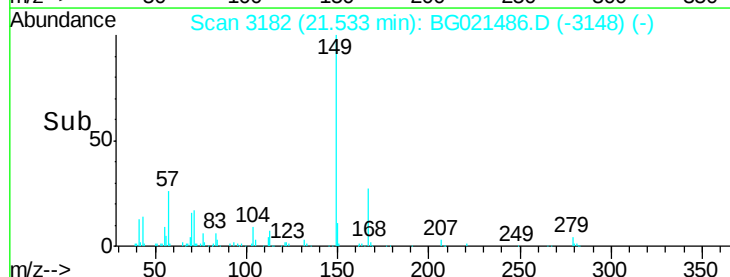
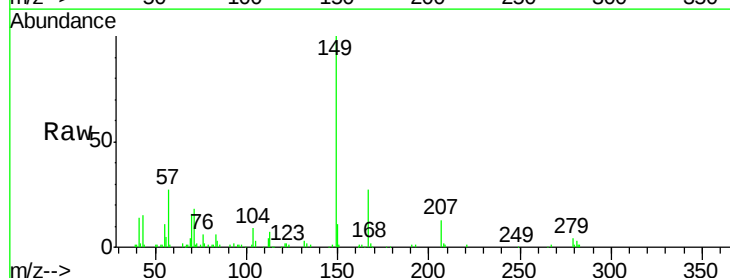
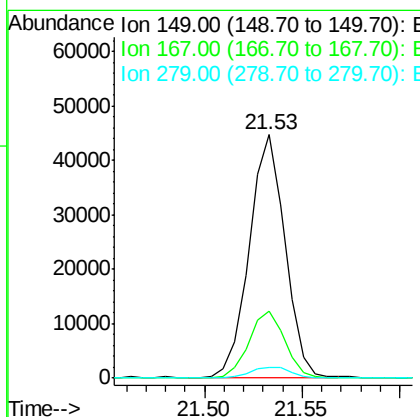
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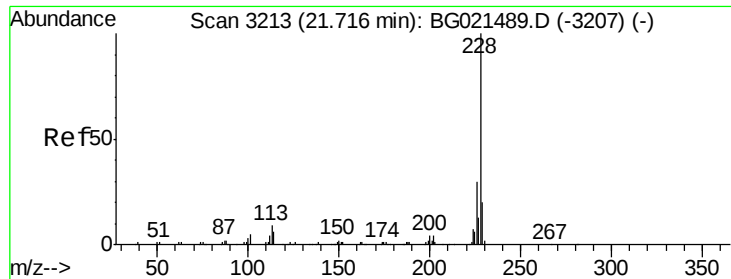
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#84
Bis(2-ethylhexyl)phthalate
Concen: 23.70 ng/ul
RT: 21.53 min Scan# 3182
Delta R.T. -0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Tgt Ion	Ratio	Resp Lower	Upper
149	100		
167	27.4	20.5	30.7
279	4.4	3.7	5.5





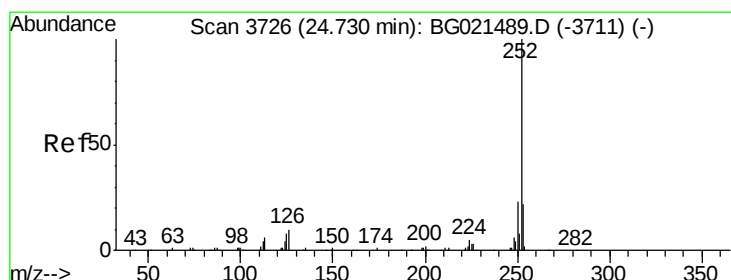
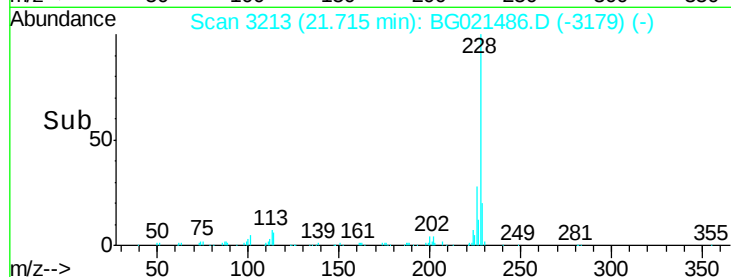
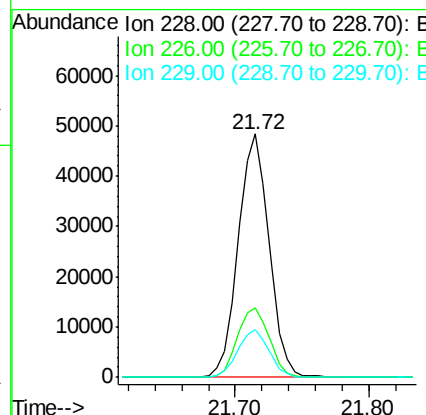
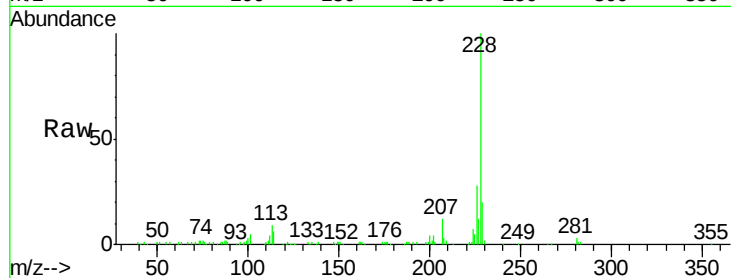
#85
Chrysene
Concen: 20.83 ng/ul
RT: 21.72 min Scan# 3213
Delta R.T. -0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Instrument :
BNA_G
ClientSampleId :
A4T55

Tot Ion:	228	Resp:	77555
Ion Ratio	Lower	Upper	
228	100		
226	28.4	23.4	35.2
229	19.5	16.2	24.2

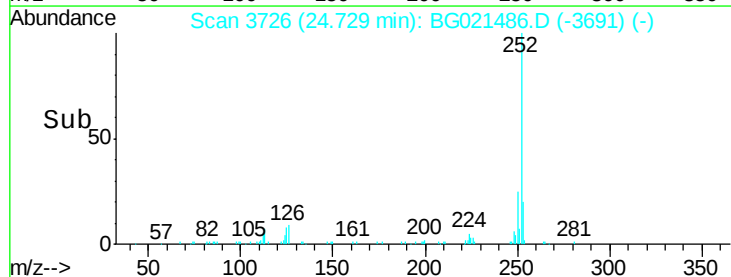
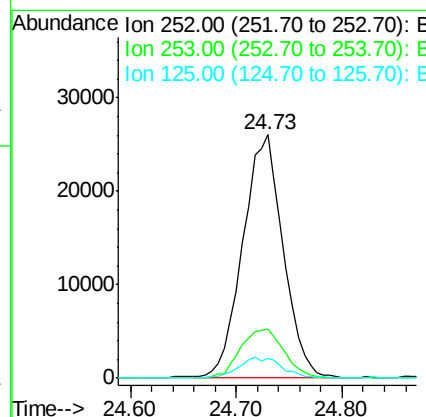
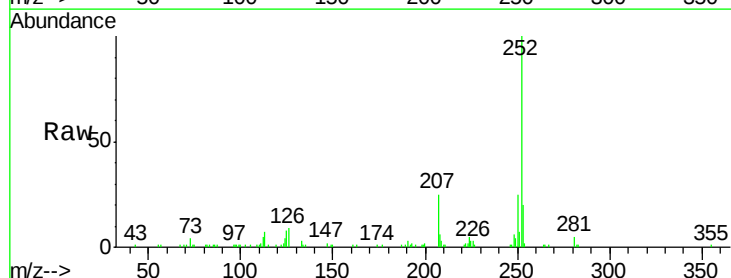
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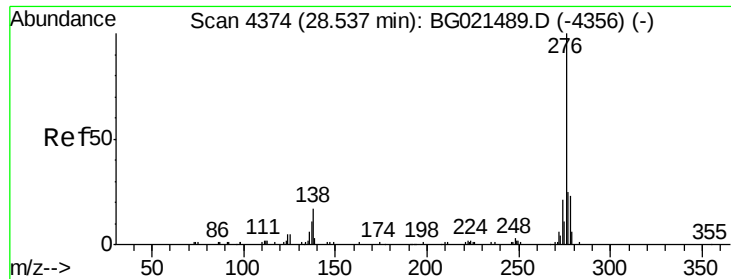
Sohil
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#91
Benzo(a)pyrene
Concen: 17.24 ng/ul
RT: 24.73 min Scan# 3726
Delta R.T. 0.00 min
Lab File: BG021486.D
Acq: 24 Mar 2016 15:41

Tgt Ion:	252	Resp:	69261
Ion Ratio	Lower	Upper	
252	100		
253	20.4	17.4	26.0
125	7.9	8.2	12.2#





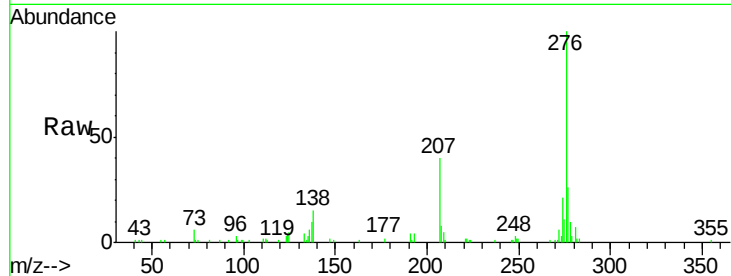
#92
 Indeno(1,2,3-cd)pyrene
 Concen: 19.82 ng/ul
 RT: 28.52 min Scan# 4372
 Delta R.T. -0.00 min
 Lab File: BG021486.D
 Acq: 24 Mar 2016 15:41

Instrument :
 BNA_G
 ClientSampleId :
 A4T55

Tot Ion	Ratio	Lower	Upper
276	100		
138	15.3	15.8	23.6#
277	25.6	19.0	28.6

Manual Integrations
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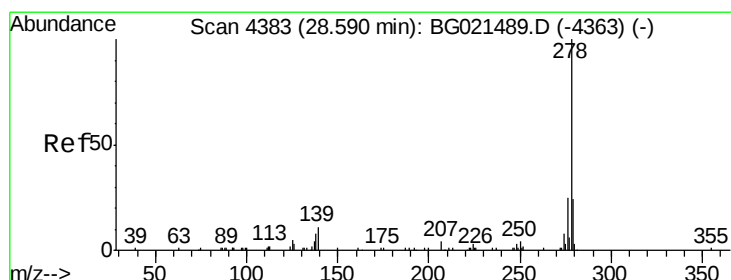
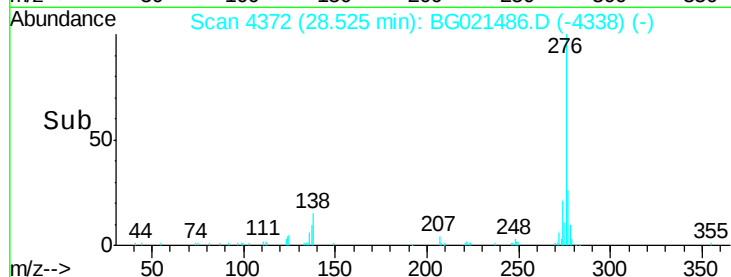
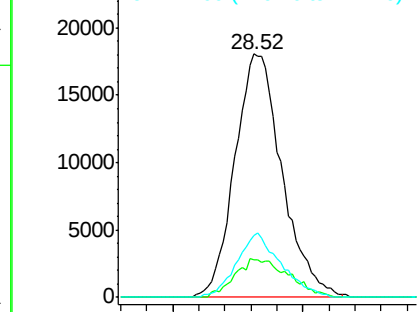


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#93
 Dibenzo(a,h)anthracene
 Concen: 12.13 ng/ul
 RT: 28.58 min Scan# 4381
 Delta R.T. -0.01 min
 Lab File: BG021486.D
 Acq: 24 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	11.5	12.1	18.1#
279	23.5	19.8	29.8

Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

