

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122515\
 Data File : BG020544.D
 Acq On : 26 Dec 2015 17:27
 Operator : UM/SJ
 Sample : G4802-23MSD
 Misc :
 ALS Vial : 81 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 G9D96MSD

Manual Integrations
 APPROVED

Sohil
 12/28/2015 6:07:22 PM

Quant Time: Dec 28 07:31:29 2015
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG122415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Dec 28 06:13:05 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.07	152	18239	20.00	ng/ul	0.00
18) Naphthalene-d8	10.89	136	80091	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.71	164	58321	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.46	188	138197	20.00	ng/ul	0.01
78) Chrysene-d12	21.73	240	169577	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	163561	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.44	96	1220	3.69	ng/uL	0.00
5) Phenol-d5	7.23	99	31028	21.20	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.40	67	19645	22.65	ng/ul	0.00
9) 2-Chlorophenol-d4	7.60	132	24767	22.06	ng/ul	0.00
13) 4-Methylphenol-d8	8.78	113	26696	21.68	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	14211	22.64	ng/ul	0.00
22) 2-Nitrophenol-d4	9.97	143	14542	20.37	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.51	165	28804	20.85	ng/ul	0.00
29) 4-Chloroaniline-d4	11.03	131	25942	16.44	ng/ul	0.00
44) Dimethylphthalate-d6	14.11	166	102222	21.26	ng/ul	0.00
47) Acenaphthylene-d8	14.41	160	121988	21.90	ng/ul	0.00
52) 4-Nitrophenol-d4	14.91	143	11583	14.45	ng/ul	0.00
58) Fluorene-d10	15.71	176	95775	22.03	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.83	200	4762	5.20	ng/ul	0.02
71) Anthracene-d10	17.56	188	147979	22.86	ng/ul	0.01
79) Pyrene-d10	19.84	212	168798	22.99	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	190988	23.10	ng/ul	0.02

Target Compounds

						Ovalue
6) Phenol	7.26	94	32420	21.27	ng/ul	97
10) 2-Chlorophenol	7.64	128	25463	21.72	ng/ul	97
15) N-Nitroso-di-n-propylamine	8.88	70	22002	22.06	ng/ul	95
28) Naphthalene	10.95	128	119567	28.08	ng/ul	98
33) 4-Chloro-3-methylphenol	12.17	107	33230	22.38	ng/ul#	86
35) 1-Methylnaphthalene	12.77	142	451182	150.77	ng/ul	95
41) 1,1'-Biphenyl	13.54	154	114275	25.39	ng/ul	95
45) Dimethylphthalate	14.16	163	36498	7.47	ng/ul	98
50) Acenaphthene	14.78	153	338471	85.52	ng/ul	98
53) 4-Nitrophenol	14.93	109	9829	13.56	ng/ul#	87
54) Dibenzofuran	15.11	168	42784	7.27	ng/ul	98
55) 2,4-Dinitrotoluene	15.08	165	34101	22.95	ng/ul#	98
59) Fluorene	15.76	166	261834	54.87	ng/ul	100
69) Pentachlorophenol	17.12	266	9189	8.84	ng/ul	97
70) Phenanthrene	17.51	178	1281145	166.61	ng/ul	94
72) Anthracene	17.60	178	325503	41.40	ng/ul	98
75) Carbazole	17.86	167	14441	2.18	ng/ul#	90
77) Fluoranthene	19.51	202	475846	49.21	ng/ul	99
80) Pyrene	19.88	202	869001	90.62	ng/ul	99
83) Benzo(a)anthracene	21.72	228	258626	25.97	ng/ul	93
85) Chrysene	21.78	228	217295	22.91	ng/ul	96
88) Benzo(b)fluoranthene	23.96	252	150566	15.34	ng/ul	97
89) Benzo(k)fluoranthene	24.02	252	57761m	6.09	ng/ul	

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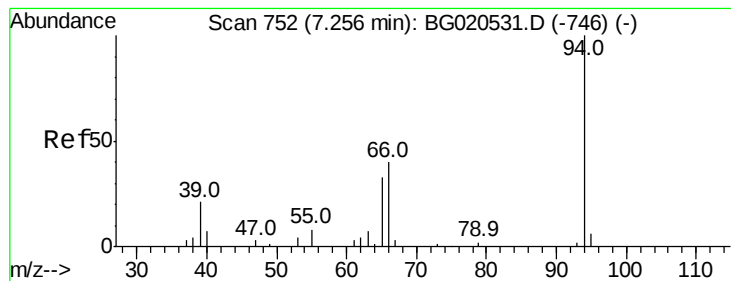
Manual Integrations
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12/28/2015 6:07:22 PM

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(a)pyrene	24.85	252	198366	21.02	ng/ul	96
92) Indeno(1,2,3-cd)pyrene	28.73	276	76621	6.78	ng/ul#	92
93) Dibenzo(a,h)anthracene	28.78	278	24876m	2.65	ng/ul	
94) Benzo(g,h,i)perylene	29.90	276	74648	8.04	ng/ul	97

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



#6

Phenol

Concen: 21.27 ng/ul

RT: 7.26 min Scan# 753

Delta R.T. 0.01 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

Instrument :

BNA_G

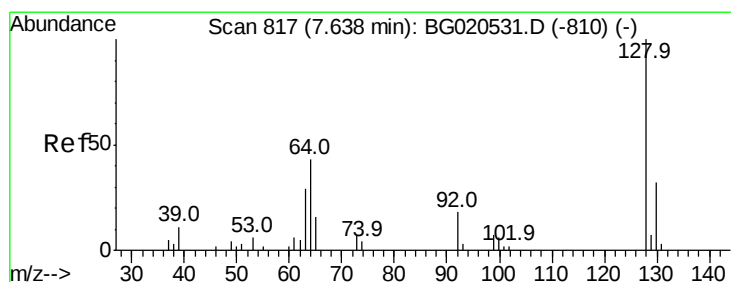
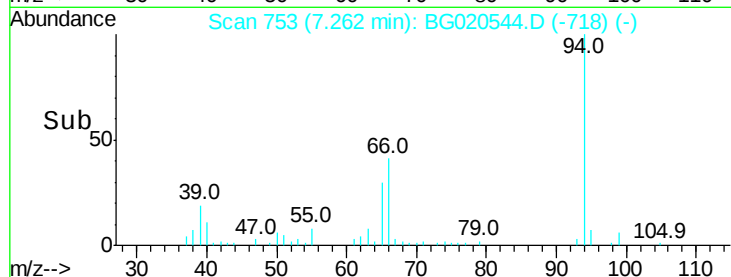
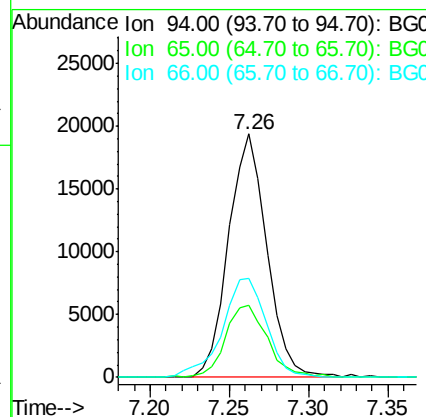
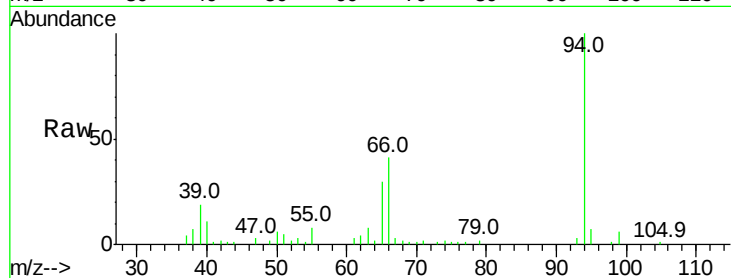
ClientSampleId :

G9D96MSD

Tot Ion:	94	Resp:	32420
Ion Ratio	Lower	Upper	
94	100		
65	29.8	26.3	39.5
66	40.6	33.3	49.9

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#10

2-Chlorophenol

Concen: 21.72 ng/ul

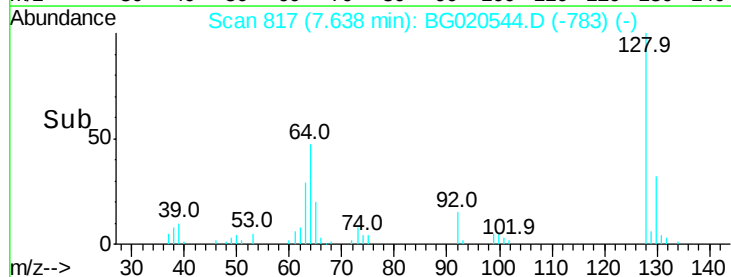
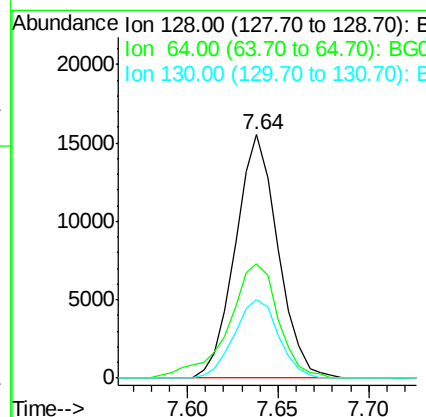
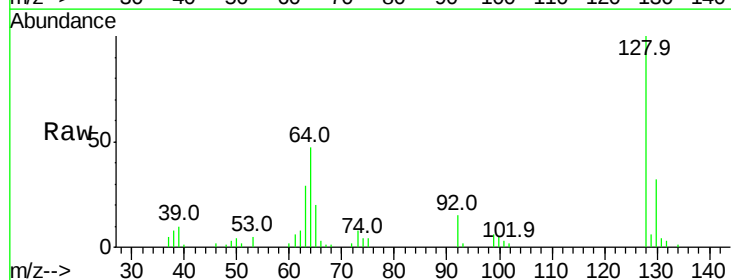
RT: 7.64 min Scan# 817

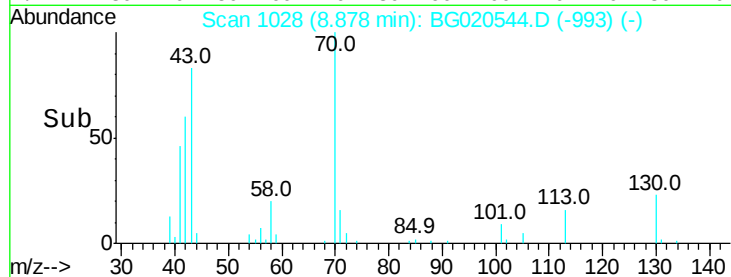
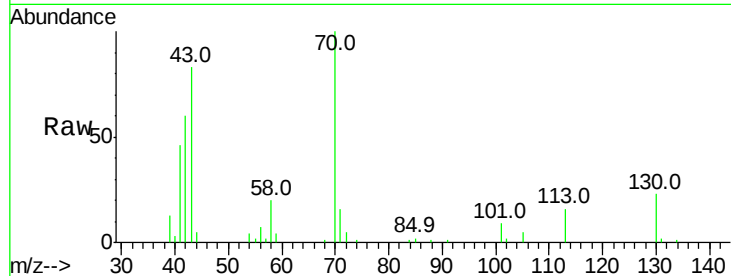
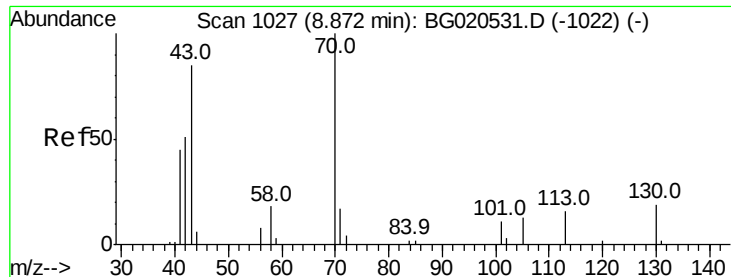
Delta R.T. 0.00 min

Lab File: BG020544.D

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Tgt Ion:	128	Resp:	25463
Ion Ratio	Lower	Upper	
128	100		
64	47.2	39.4	59.0
130	32.4	24.6	36.8





#15

N-Nitroso-di-n-propylamine

Concen: 22.06 ng/ul

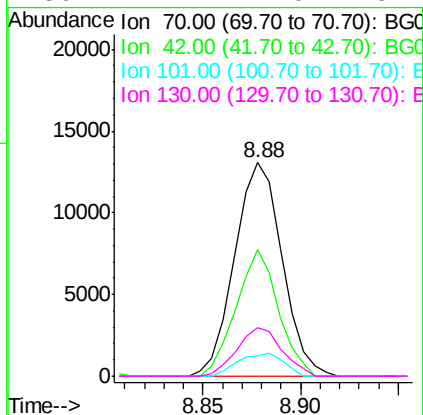
RT: 8.88 min Scan# 1028

Delta R.T. 0.01 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

Tot Ion	Ion	Ratio	Resp	Lower	Upper
70	100		22002		
42	59.6	44.3	66.5		
101	9.4	7.6	11.4		
130	22.7	17.0	25.4		



Instrument :

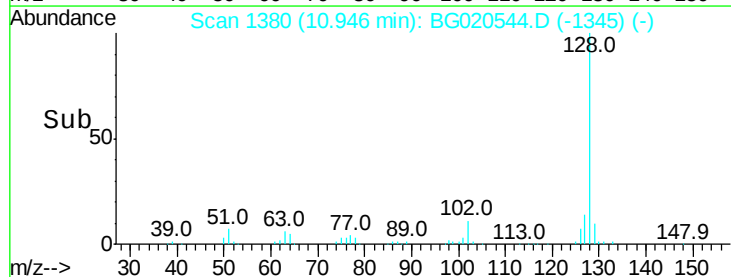
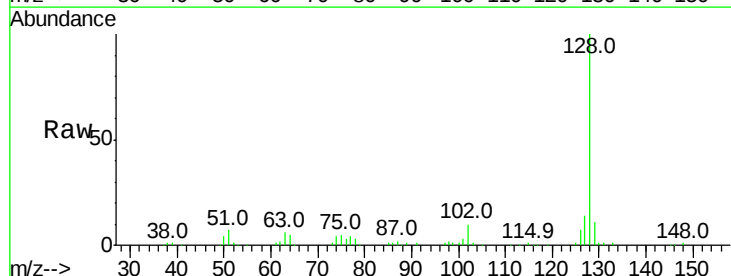
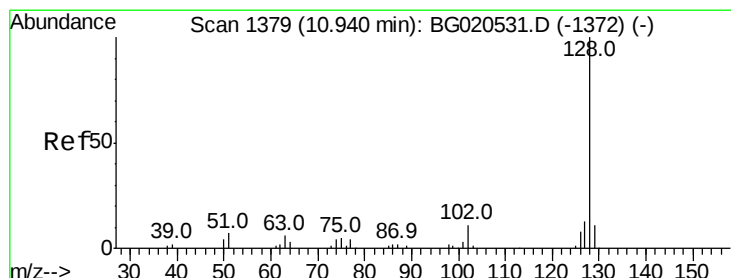
BNA_G

ClientSampleId :

G9D96MSD

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#28

Naphthalene

Concen: 28.08 ng/ul

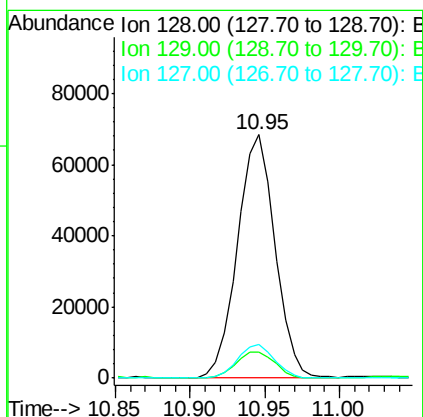
RT: 10.95 min Scan# 1380

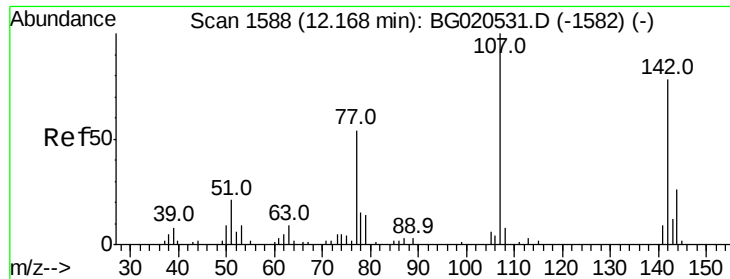
Delta R.T. 0.01 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
128	100		119567		
129	10.9	8.6	12.8		
127	13.7	10.1	15.1		





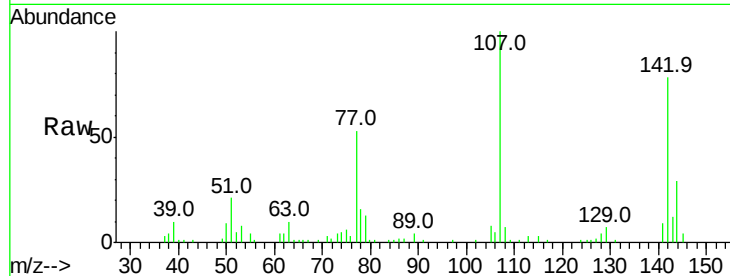
#33
 4-Chloro-3-methylphenol
 Concen: 22.38 ng/ul
 RT: 12.17 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

Instrument :
 BNA_G
 ClientSampleID :
 G9D96MSD

Tot Ion	Ratio	Lower	Upper
107	100		
144	29.2	18.7	28.1
142	78.0	52.8	79.2

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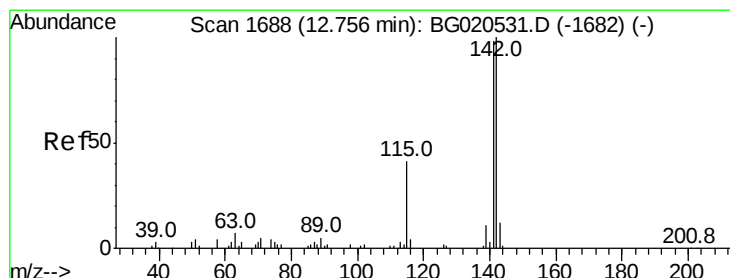
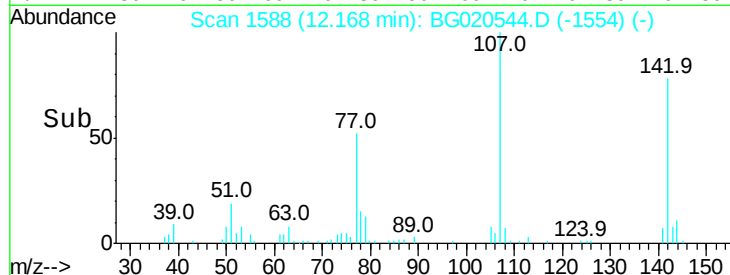
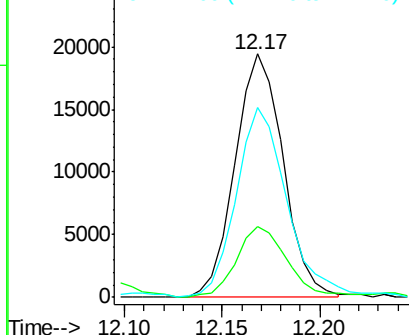


Abundance

Ion 107.00 (106.70 to 107.70): E

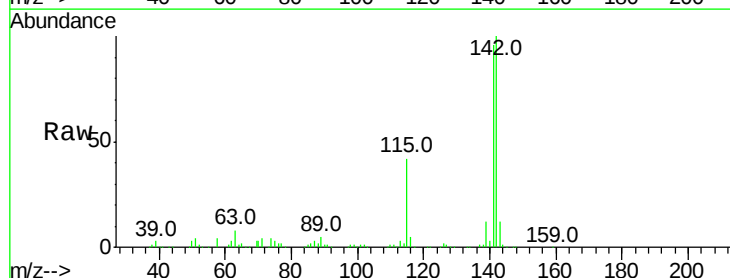
Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E



#35
 1-Methylnaphthalene
 Concen: 150.77 ng/ul
 RT: 12.77 min Scan# 1690
 Delta R.T. 0.01 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.9	73.0	109.6
116	4.5	3.0	4.6

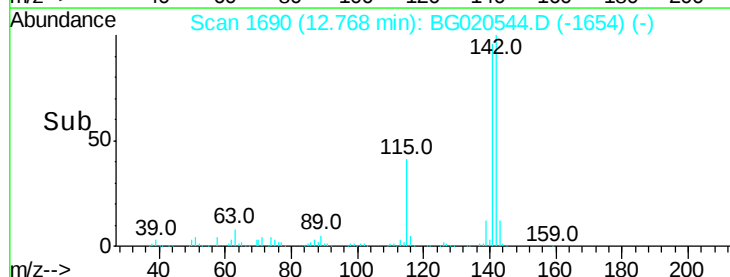
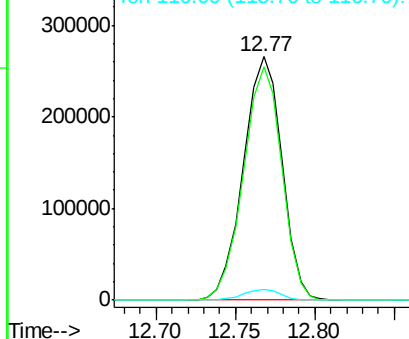


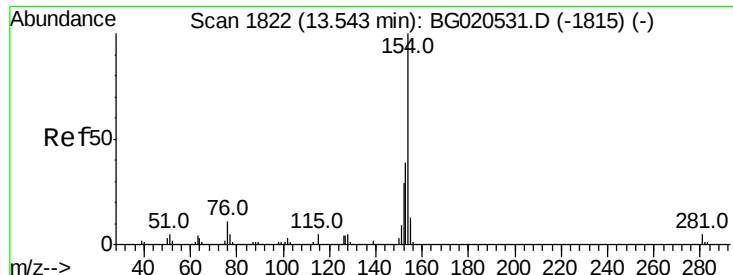
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





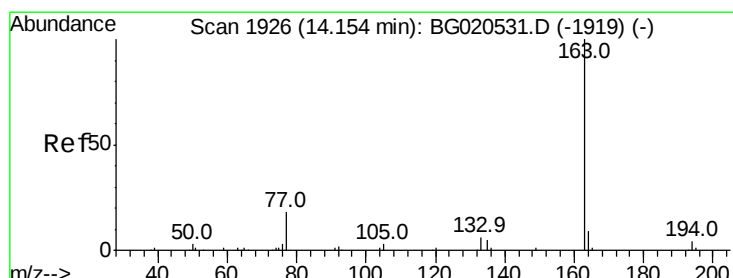
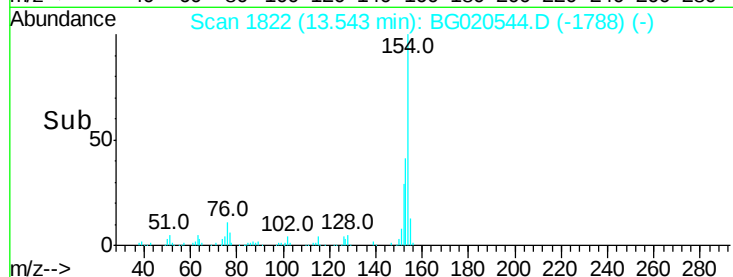
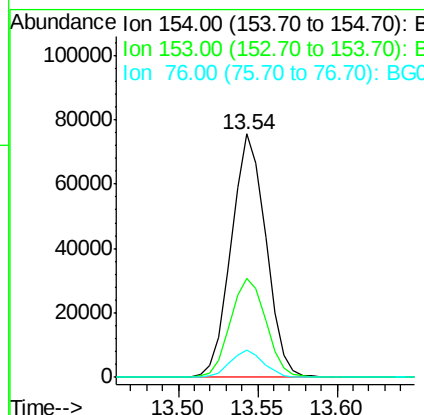
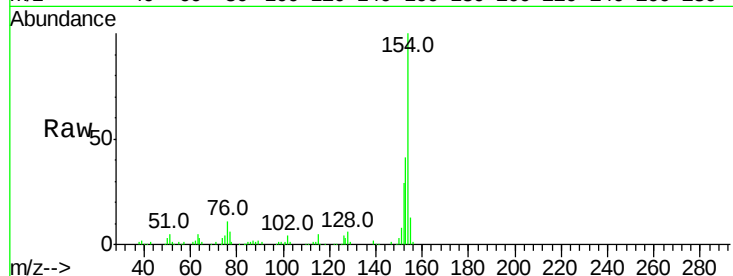
#41
 1,1'-Biphenyl
 Concen: 25.39 ng/ul
 RT: 13.54 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

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Tot Ion:	154	Resp:	114275
Ion Ratio	Lower	Upper	
154	100		
153	40.9	35.5	53.3
76	11.1	10.4	15.6

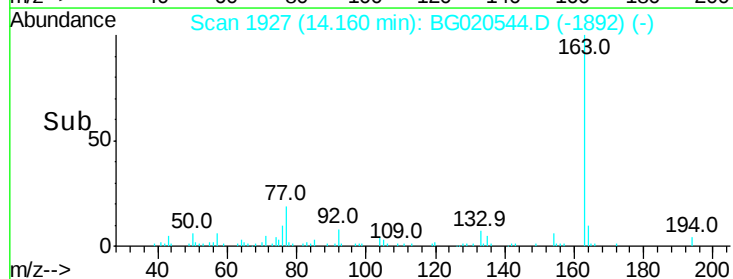
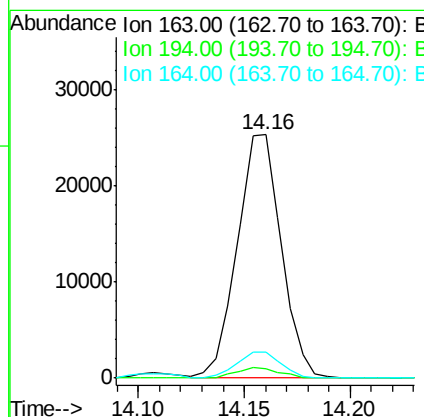
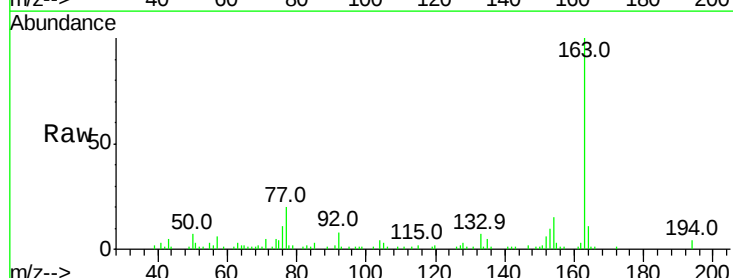
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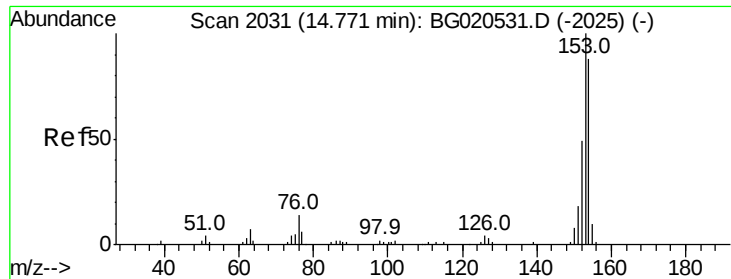
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#45
 Dimethylphthalate
 Concen: 7.47 ng/ul
 RT: 14.16 min Scan# 1927
 Delta R.T. 0.01 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

Tgt Ion:	163	Resp:	36498
Ion Ratio	Lower	Upper	
163	100		
194	4.1	3.5	5.3
164	10.6	7.7	11.5





#50

Acenaphthene

Concen: 85.52 ng/ul

RT: 14.78 min Scan# 2032

Delta R.T. 0.01 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

Instrument :

BNA_G

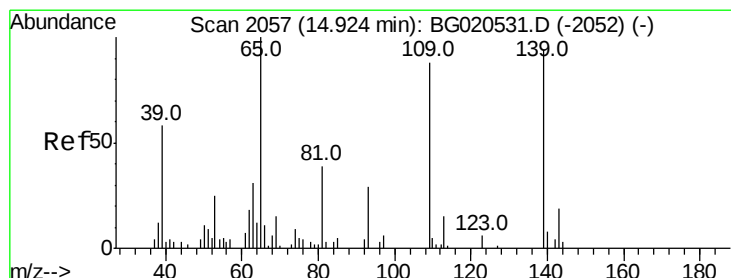
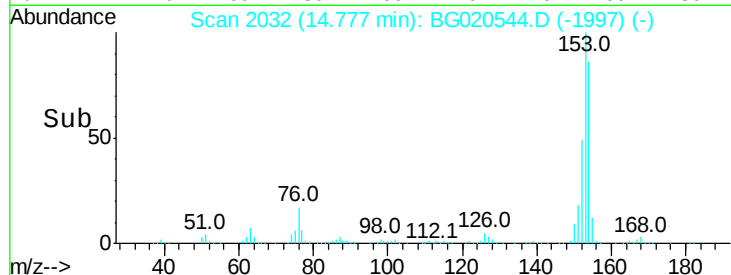
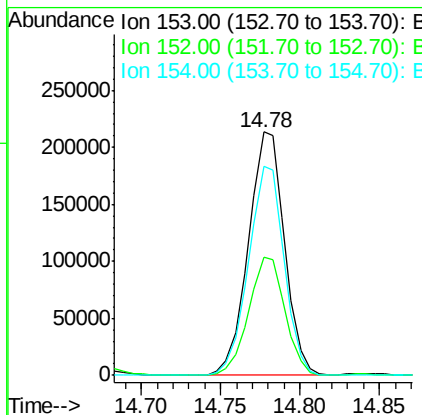
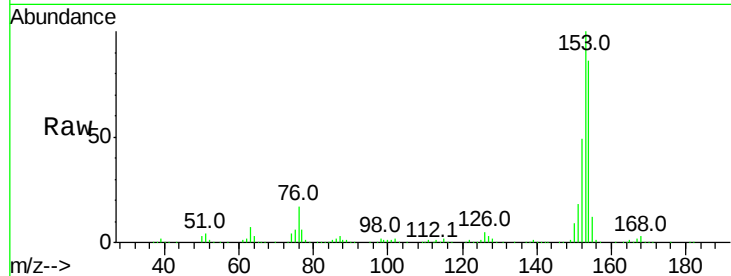
ClientSampleId :

G9D96MSD

Tot Ion:	153	Resp:	338471
Ion Ratio	Lower	Upper	
153	100		
152	48.8	37.6	56.4
154	86.0	67.9	101.9

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#53

4-Nitrophenol

Concen: 13.56 ng/ul

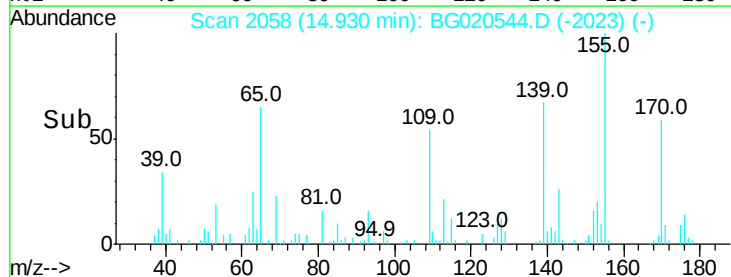
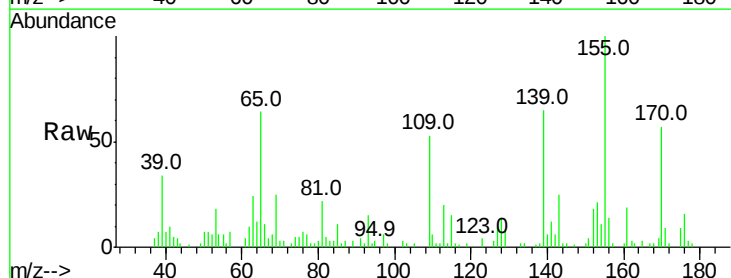
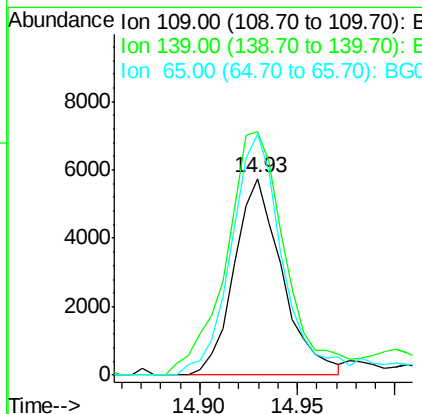
RT: 14.93 min Scan# 2058

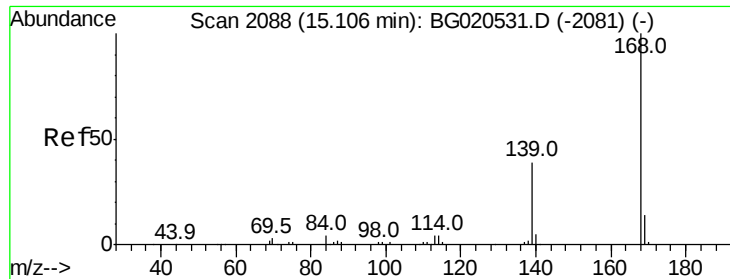
Delta R.T. 0.01 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

Tgt Ion:	109	Resp:	9829
Ion Ratio	Lower	Upper	
109	100		
139	123.7	80.5	120.7#
65	122.3	93.4	140.2





#54

Dibenzenofuran

Concen: 7.27 ng/ul

RT: 15.11 min Scan# 2088

Delta R.T. 0.00 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

Instrument :

BNA_G

ClientSampleId :

G9D96MSD

Tot Ion:168 Resp: 42784

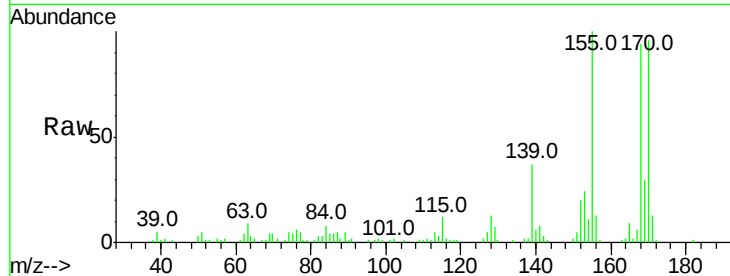
Ion Ratio Lower Upper

168 100

139 39.0 30.5 45.7

Manual Integrations
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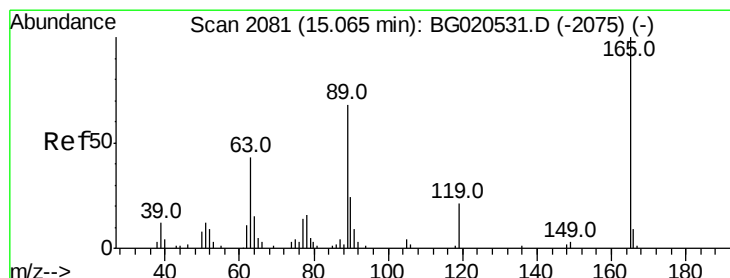
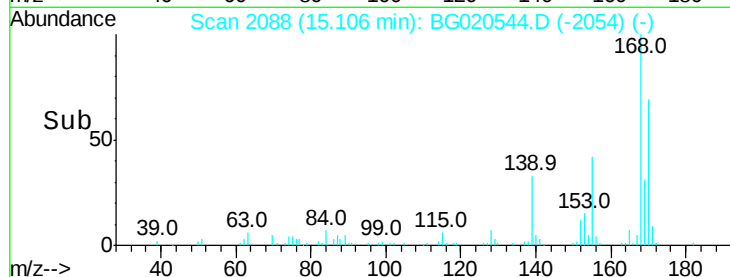


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

15.11

Time--> 15.00 15.10 15.20



#55

2,4-Dinitrotoluene

Concen: 22.95 ng/ul

RT: 15.08 min Scan# 2084

Delta R.T. 0.02 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

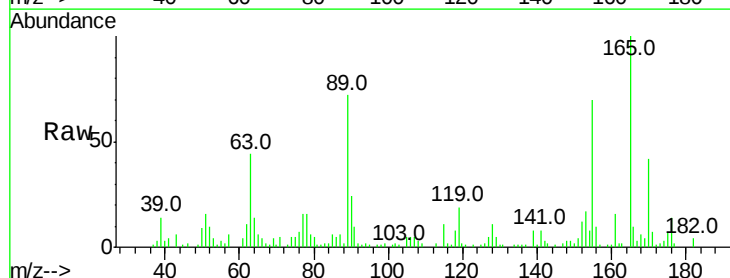
Tgt Ion:165 Resp: 34101

Ion Ratio Lower Upper

165 100

63 43.5 35.8 53.8

182 4.0 2.2 3.2#



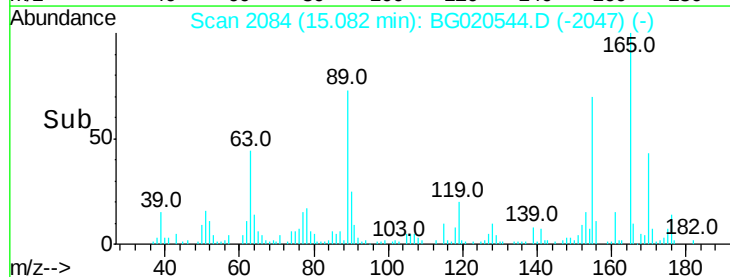
Abundance Ion 165.00 (164.70 to 165.70): E

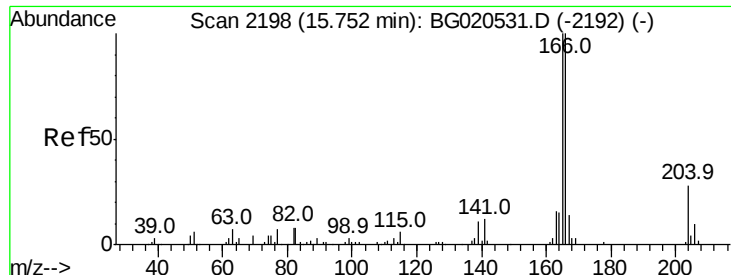
Ion 63.00 (62.70 to 63.70): BG

Ion 182.00 (181.70 to 182.70): E

15.08

Time--> 15.00 15.10





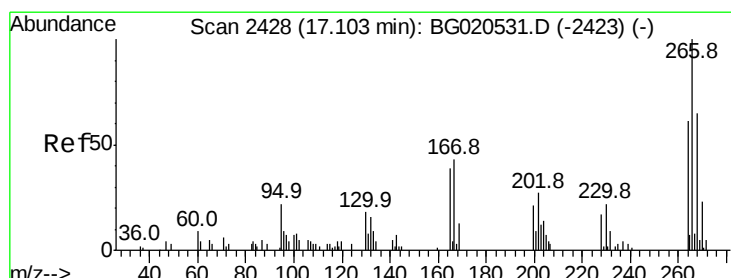
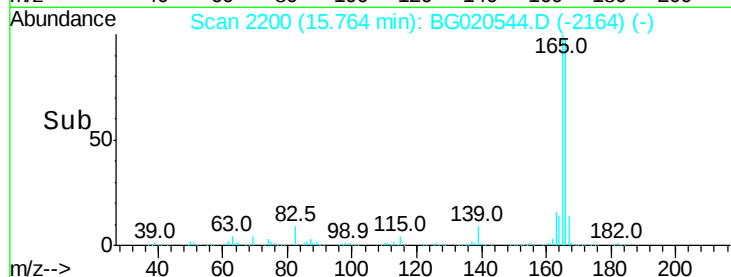
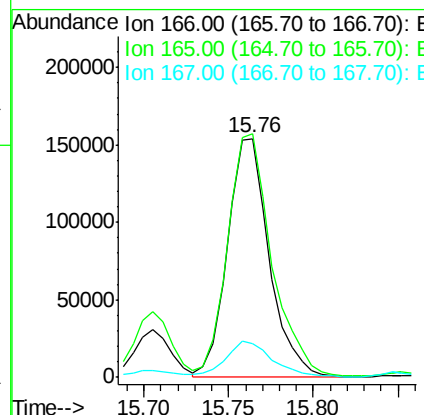
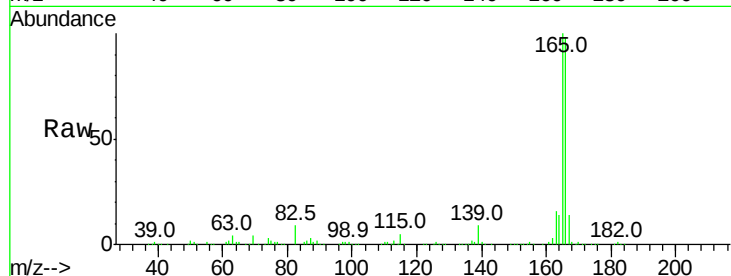
#59
Fluorene
 Concen: 54.87 ng/ul
 RT: 15.76 min Scan# 2200
 Delta R.T. 0.01 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

Instrument :
 BNA_G
 ClientSampleId :
 G9D96MSD

Tot Ion	Ratio	Resp	Lower	Upper
166	100	261834		
165	102.0		81.4	122.0
167	14.3		11.2	16.8

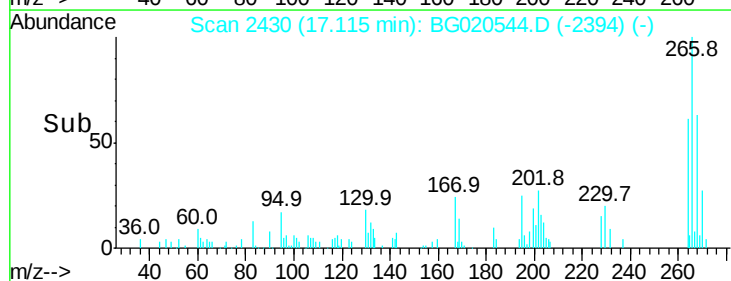
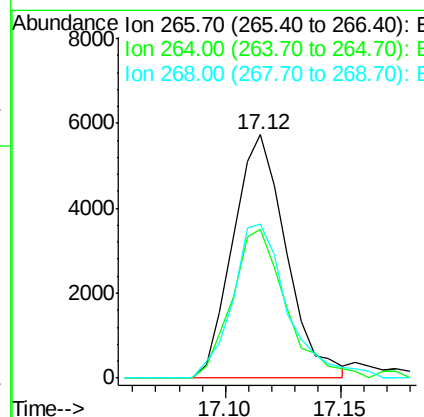
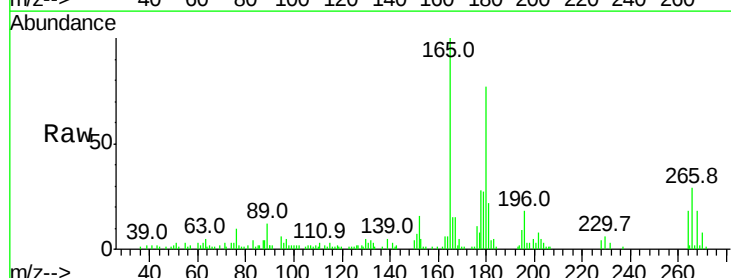
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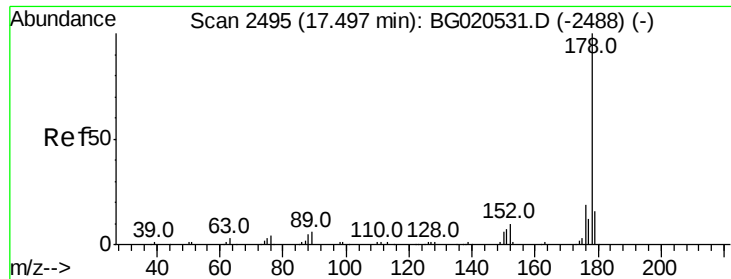
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#69
Pentachlorophenol
 Concen: 8.84 ng/ul
 RT: 17.12 min Scan# 2430
 Delta R.T. 0.01 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
266	100	9189		
264	67.8		52.2	78.2
268	63.3		49.3	73.9





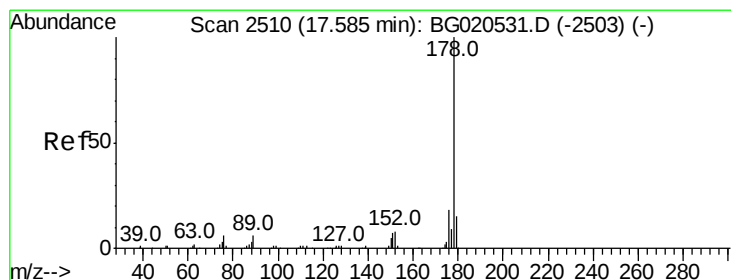
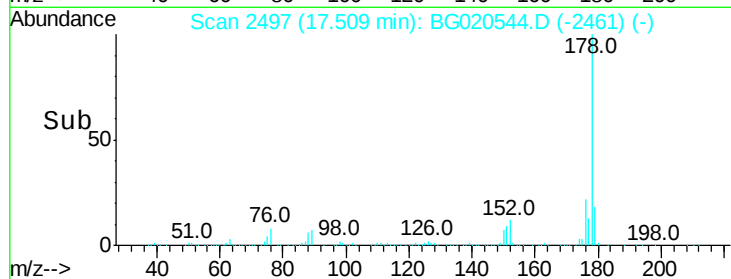
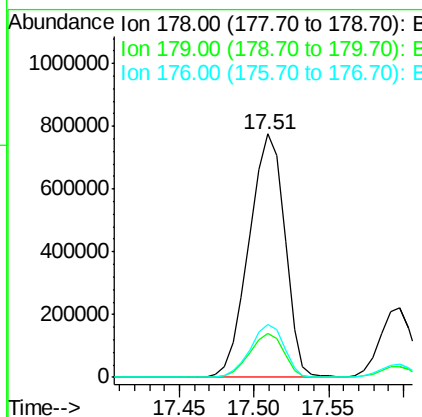
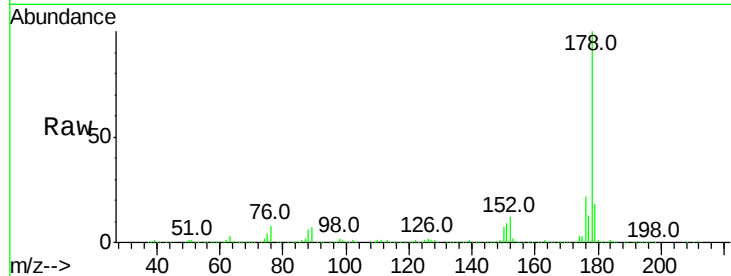
#70
Phenanthrene
Concen: 166.61 ng/ul
RT: 17.51 min Scan# 2497
Delta R.T. 0.01 min
Lab File: BG020544.D
Acq: 26 Dec 2015 17:27

Instrument :
BNA_G
ClientSampleId :
G9D96MSD

Tot Ion	Ratio	Lower	Upper
178	100		
179	18.3	12.9	19.3
176	21.8	15.3	22.9

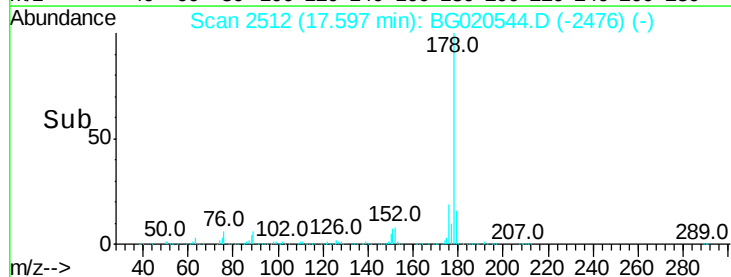
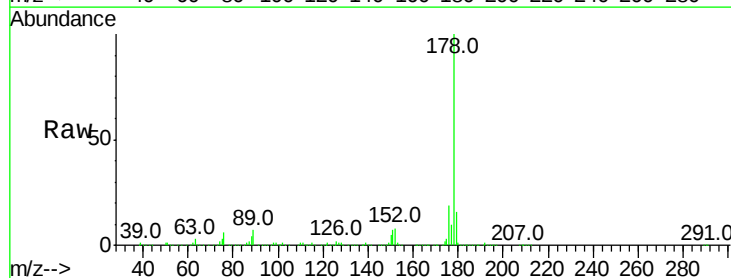
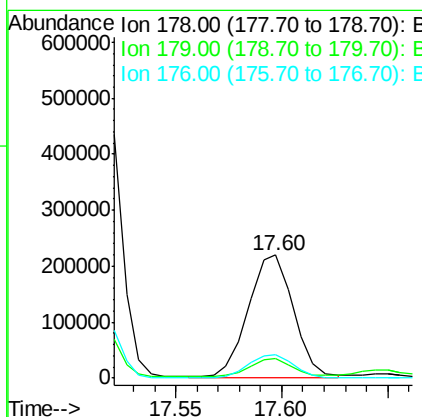
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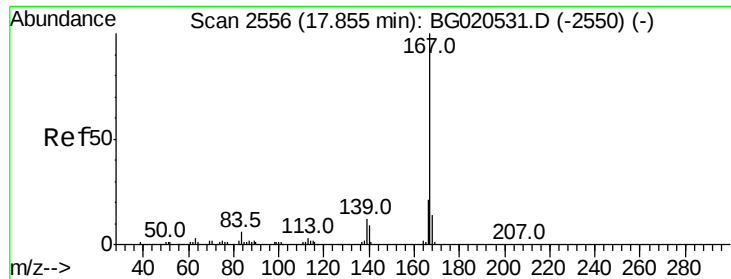
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#72
Anthracene
Concen: 41.40 ng/ul
RT: 17.60 min Scan# 2512
Delta R.T. 0.01 min
Lab File: BG020544.D
Acq: 26 Dec 2015 17:27

Tgt Ion	Ratio	Lower	Upper
178	100		
179	16.1	12.3	18.5
176	18.7	14.3	21.5





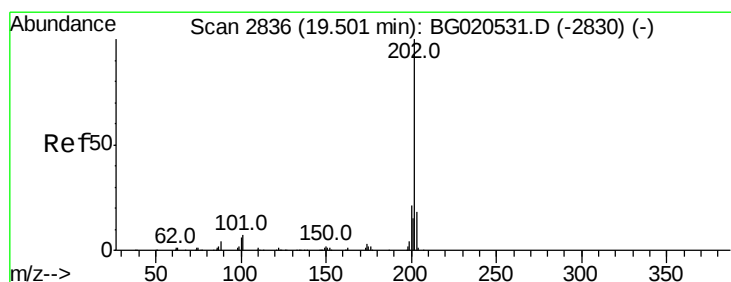
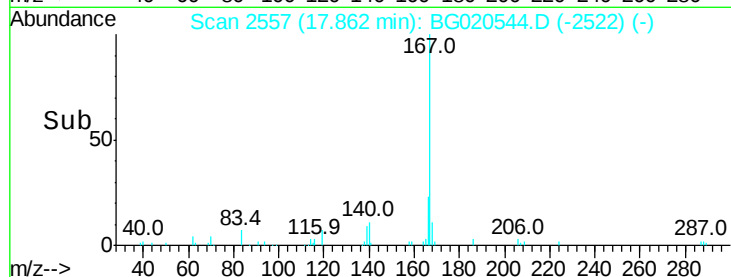
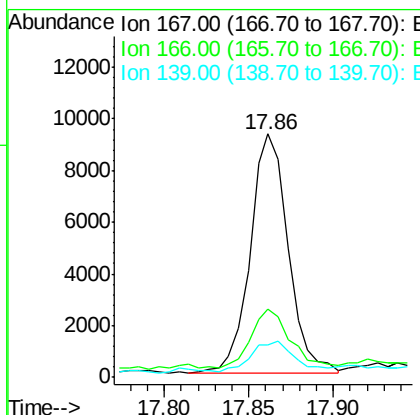
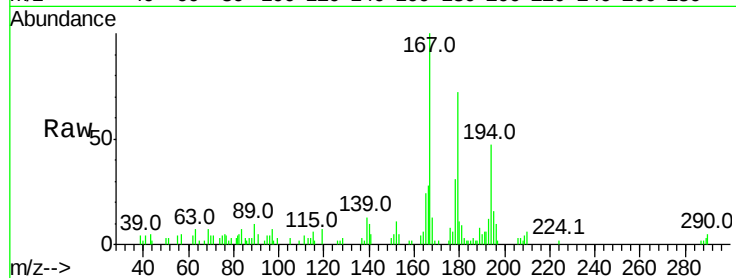
#75
 Carbazole
 Concen: 2.18 ng/ul
 RT: 17.86 min Scan# 2557
 Delta R.T. 0.01 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

Instrument :
 BNA_G
 ClientSampleId :
 G9D96MSD

Tot Ion	Ratio	Lower	Upper
167	100		
166	28.0	17.0	25.6#
139	13.5	10.1	15.1

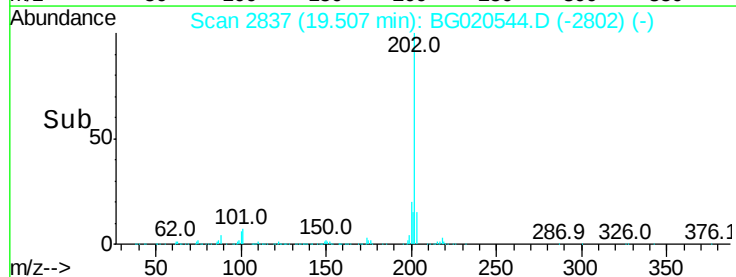
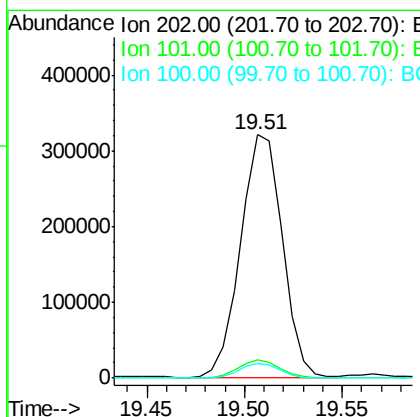
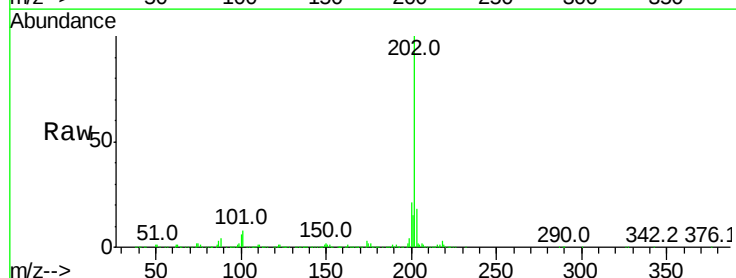
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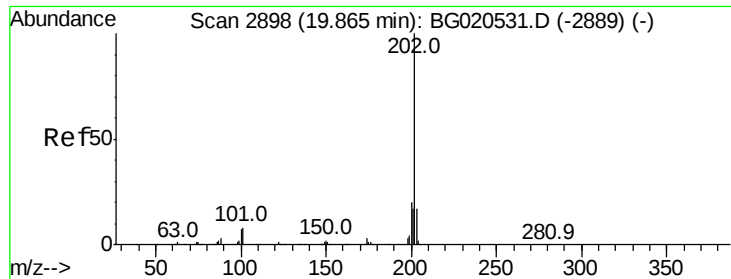
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#77
 Fluoranthene
 Concen: 49.21 ng/ul
 RT: 19.51 min Scan# 2837
 Delta R.T. 0.01 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.7	6.2	9.4
100	5.8	5.1	7.7





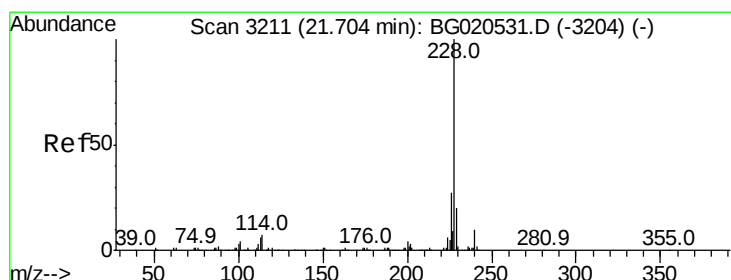
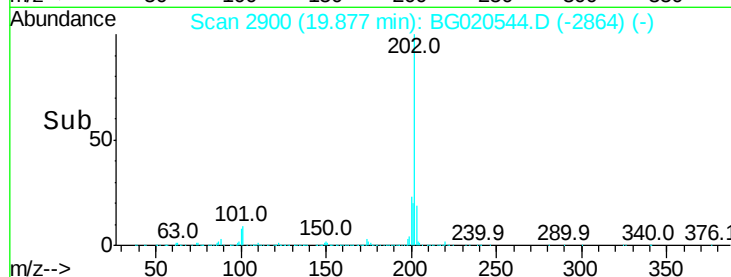
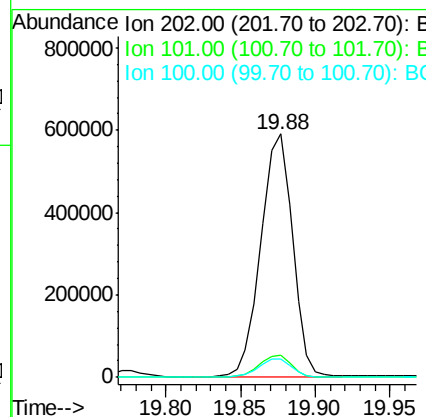
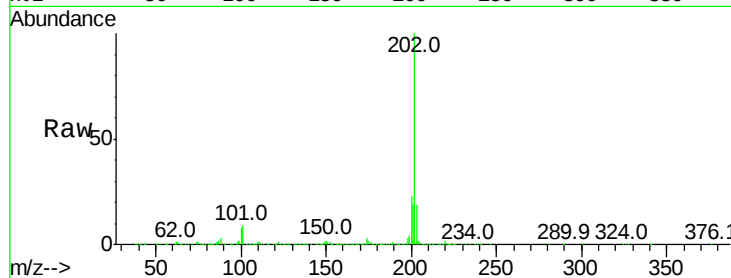
#80
Pvrene
Concen: 90.62 ng/ul
RT: 19.88 min Scan# 2900
Delta R.T. 0.01 min
Lab File: BG020544.D
Acq: 26 Dec 2015 17:27

Instrument :
BNA_G
ClientSampleId :
G9D96MSD

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	9.0	7.0	10.4
100	7.6	6.4	9.6

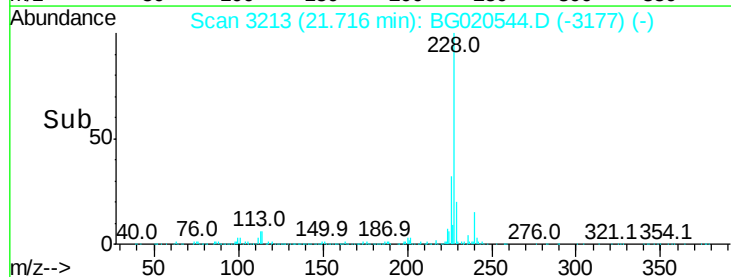
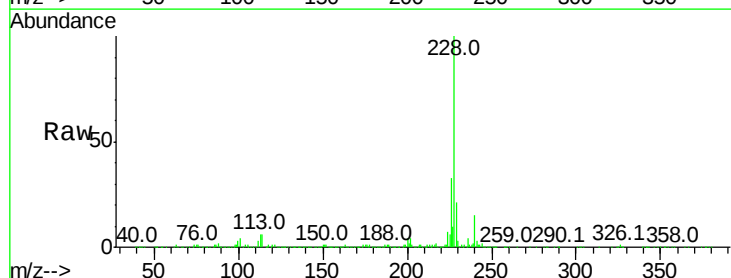
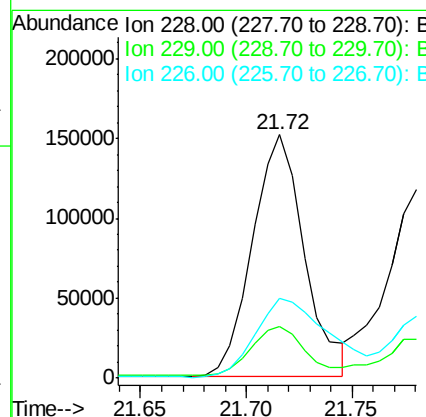
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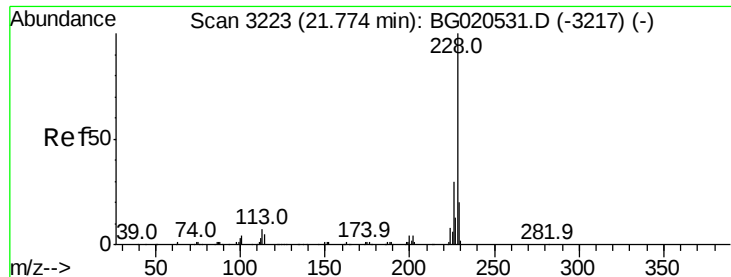
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#83
Benzo(a)anthracene
Concen: 25.97 ng/ul
RT: 21.72 min Scan# 3213
Delta R.T. 0.01 min
Lab File: BG020544.D
Acq: 26 Dec 2015 17:27

Tgt Ion	Ratio	Resp Lower	Upper
228	100		
229	21.0	15.8	23.8
226	32.6	21.8	32.6





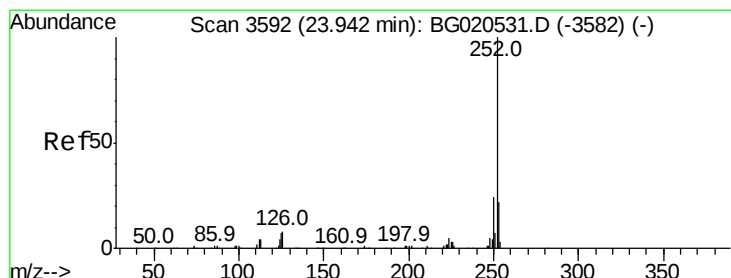
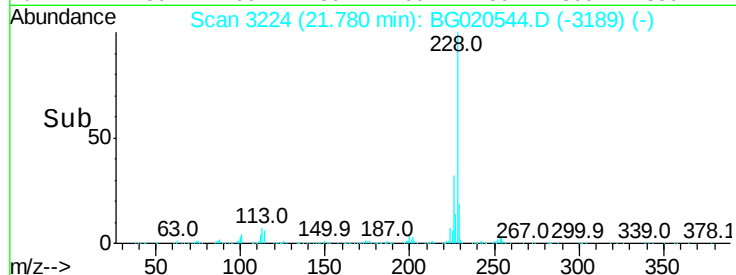
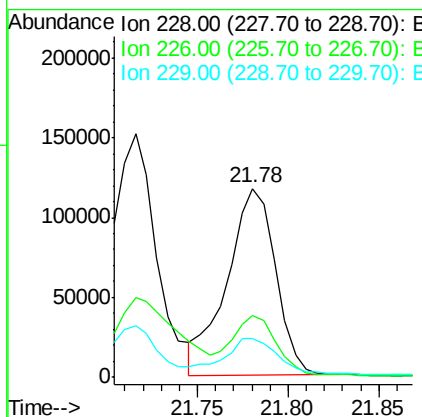
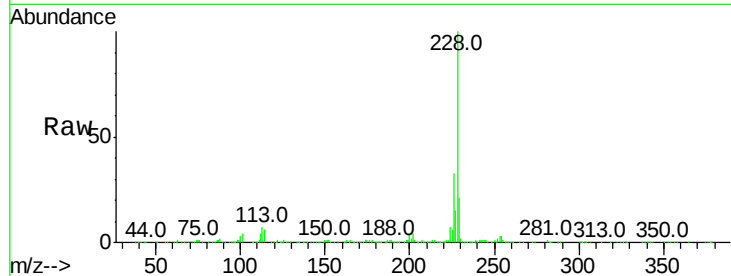
#85
Chrysene
Concen: 22.91 ng/ul
RT: 21.78 min Scan# 3224
Delta R.T. 0.01 min
Lab File: BG020544.D
Acq: 26 Dec 2015 17:27

Instrument :
BNA_G
ClientSampleId :
G9D96MSD

Tot Ion:	228	Resp:	217295
Ion Ratio	Lower	Upper	
228	100		
226	32.8	23.9	35.9
229	20.6	15.6	23.4

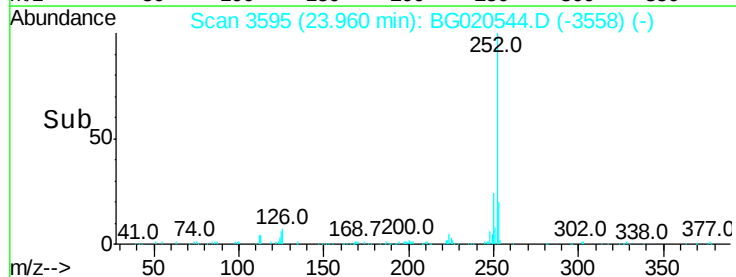
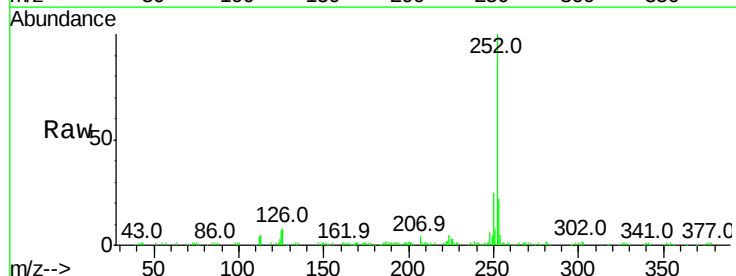
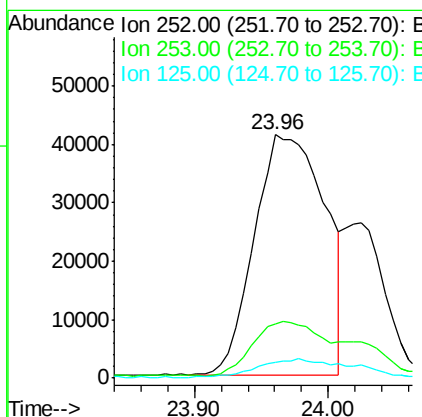
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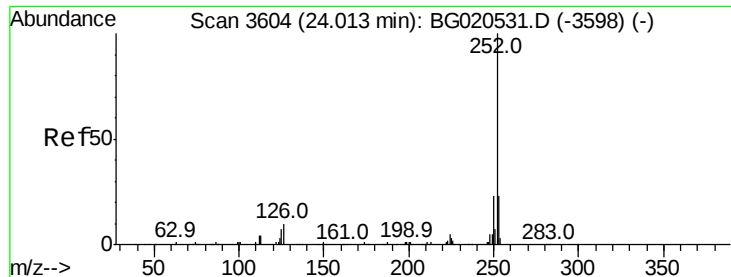
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#88
Benzo(b)fluoranthene
Concen: 15.34 ng/ul
RT: 23.96 min Scan# 3595
Delta R.T. 0.02 min
Lab File: BG020544.D
Acq: 26 Dec 2015 17:27

Tgt Ion:	252	Resp:	150566
Ion Ratio	Lower	Upper	
252	100		
253	22.4	16.7	25.1
125	6.7	6.2	9.2





#89

Benzo(k)fluoranthene

Concen: 6.09 ng/ul m

RT: 24.02 min Scan# 3606

Delta R.T. 0.01 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

Instrument :

BNA_G

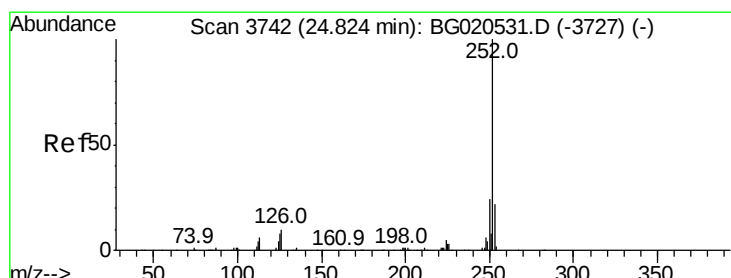
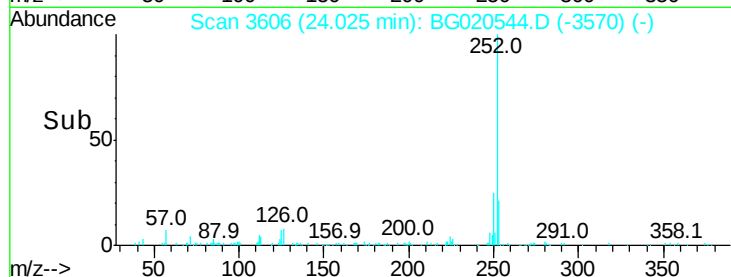
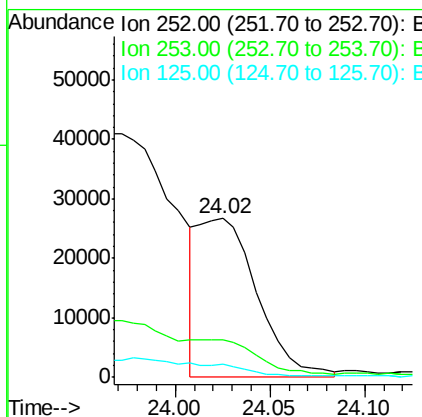
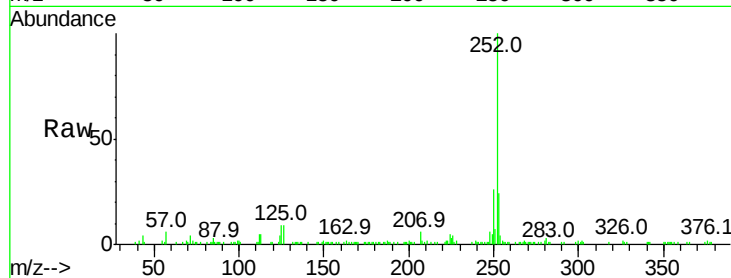
ClientSampleId :

G9D96MSD

Tot Ion:	252	Resp:	57761
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.9	26.9
125	8.5	5.8	8.6

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#91

Benzo(a)pyrene

Concen: 21.02 ng/ul

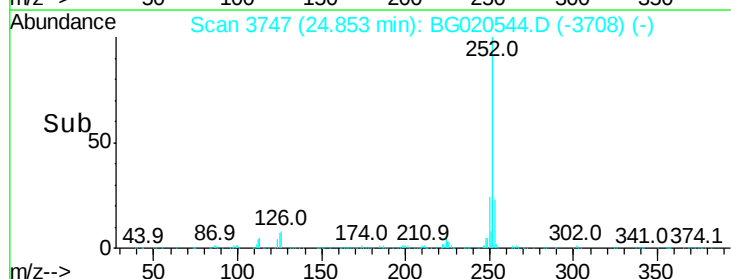
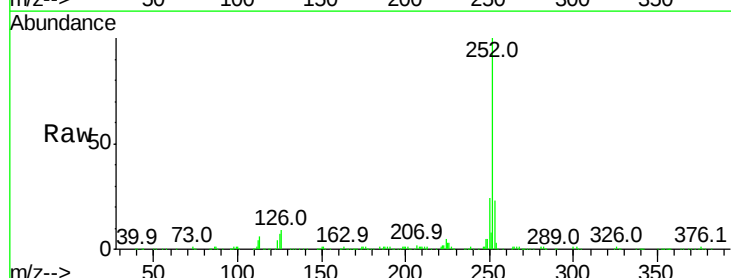
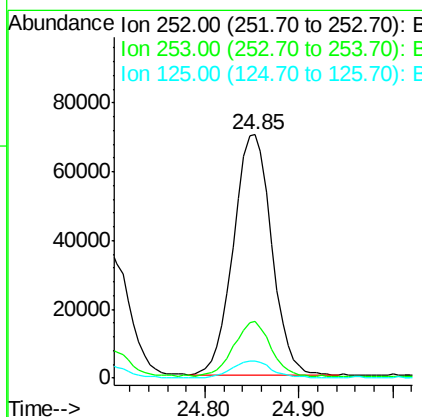
RT: 24.85 min Scan# 3747

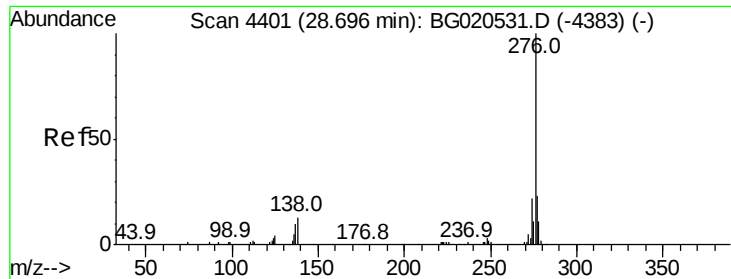
Delta R.T. 0.03 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

Tgt Ion:	252	Resp:	198366
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.0	25.4
125	7.1	6.2	9.4





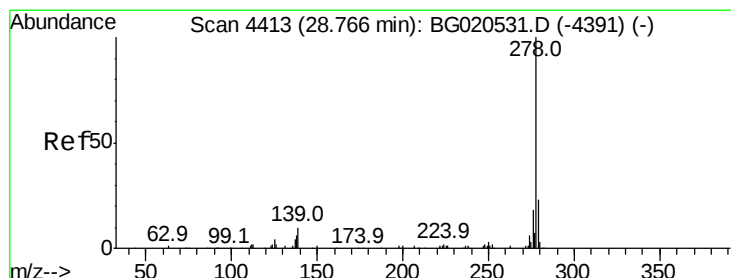
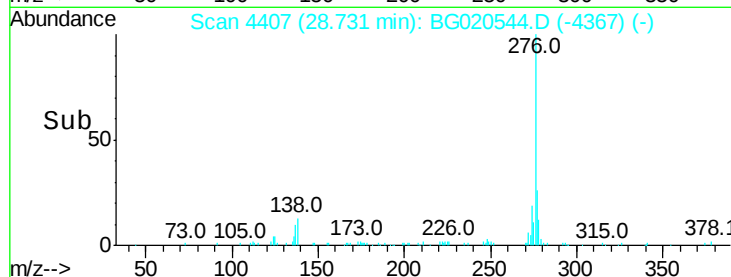
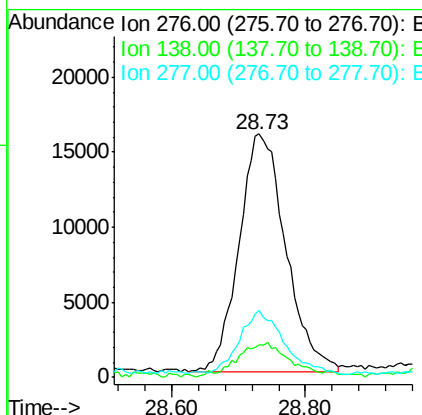
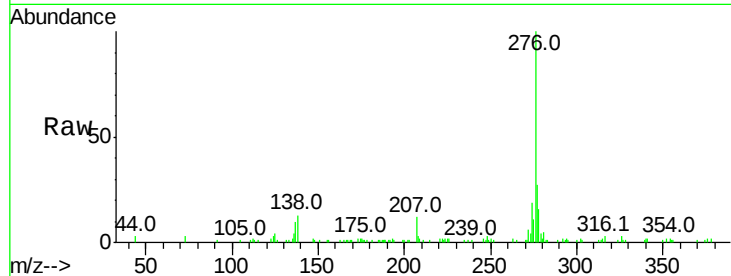
#92
 Indeno(1,2,3-cd)pyrene
 Concen: 6.78 ng/ul
 RT: 28.73 min Scan# 4407
 Delta R.T. 0.04 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

Instrument :
 BNA_G
 ClientSampleId :
 G9D96MSD

Tot Ion	Ratio	Lower	Upper
276	100		
138	13.4	11.4	17.0
277	27.3	17.4	26.0#

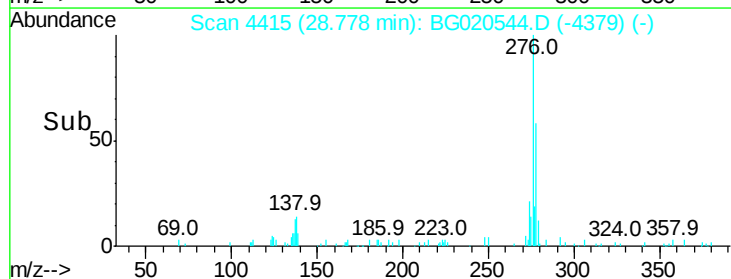
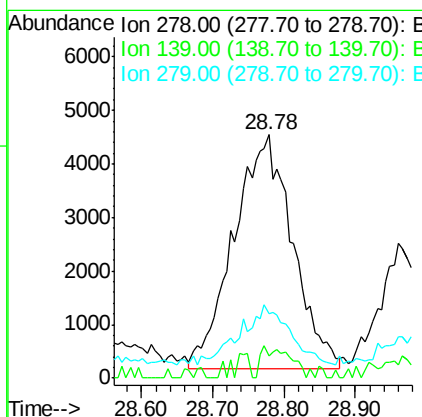
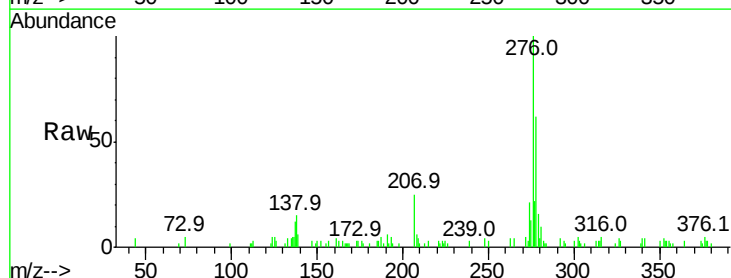
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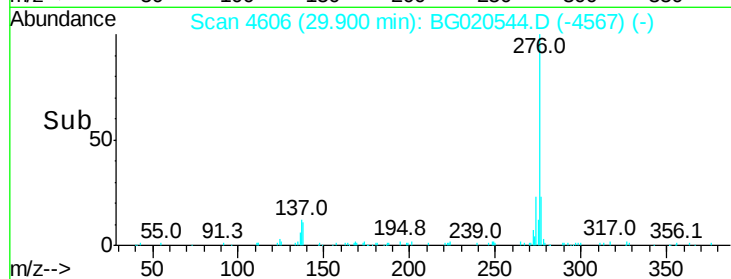
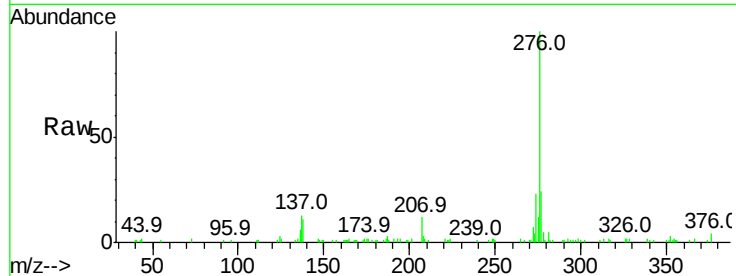
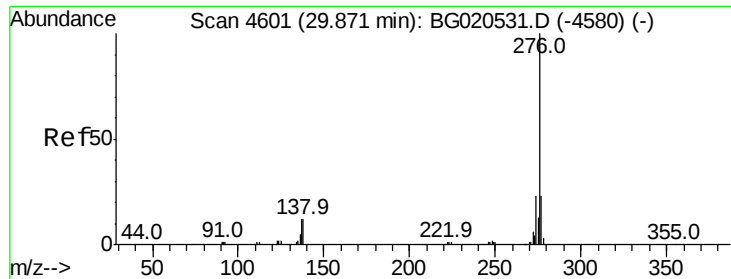
Sohil
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#93
 Dibenzo(a,h)anthracene
 Concen: 2.65 ng/ul m
 RT: 28.78 min Scan# 4415
 Delta R.T. 0.01 min
 Lab File: BG020544.D
 Acq: 26 Dec 2015 17:27

Tgt Ion	Ratio	Lower	Upper
278	100		
139	9.2	9.4	14.2#
279	26.5	19.4	29.0





#94

Benzo(a,h,i)perylene

Concen: 8.04 ng/ul

RT: 29.90 min Scan# 4606

Delta R.T. 0.03 min

Lab File: BG020544.D

Acq: 26 Dec 2015 17:27

Tot Ion:	276	Resp:	74648
Ion Ratio	Lower	Upper	
276	100		
138	10.8	10.8	16.2
277	24.0	19.9	29.9

Instrument :

BNA_G

ClientSampleId :

G9D96MSD

Manual Integrations
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