

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121416\
 Data File : BG025196.D
 Acq On : 15 Dec 2016 4:10
 Operator : UM/SJ
 Sample : H5970-04MSD
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA843MSD

Manual Integrations
 APPROVED

sohil
 12/15/2016 5:44:48 PM

Quant Time: Dec 15 05:40:06 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 15 04:58:54 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.24	152	89562	20.00	ng/ul	0.00
18) Naphthalene-d8	11.06	136	393525	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.86	164	315881	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.60	188	613700	20.00	ng/ul	0.00
75) Chrysene-d12	21.90	240	742993	20.00	ng/ul	0.00
83) Perylene-d12	25.32	264	767510	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.58	96	5296	3.05	ng/uL	0.00
5) Phenol-d5	7.39	99	138114	17.87	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.55	67	104432	21.85	ng/ul	0.00
9) 2-Chlorophenol-d4	7.76	132	106284	19.67	ng/ul	0.00
13) 4-Methylphenol-d8	8.94	113	98299	15.22	ng/ul	0.00
19) Nitrobenzene-d5	9.42	128	60366	21.66	ng/ul	0.00
22) 2-Nitrophenol-d4	10.14	143	74857	21.55	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.68	165	141055	21.11	ng/ul	0.00
29) 4-Chloroaniline-d4	11.21	131	17312	2.64	ng/ul	0.00
43) Dimethylphthalate-d6	14.25	166	489686	22.54	ng/ul	0.00
46) Acenaphthylene-d8	14.55	160	574215	24.13	ng/ul	0.00
51) 4-Nitrophenol-d4	15.07	143	33074	8.86	ng/ul	0.01
57) Fluorene-d10	15.85	176	441135	21.57	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.97	200	67613	17.82	ng/ul	0.00
70) Anthracene-d10	17.70	188	642392	24.80	ng/ul	0.00
76) Pyrene-d10	19.98	212	752905	24.60	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.08	264	770669	24.78	ng/ul	0.00

Target Compounds

						Ovalue
6) Phenol	7.42	94	185126	23.34	ng/ul	96
10) 2-Chlorophenol	7.80	128	111436	20.51	ng/ul	95
15) N-Nitroso-di-n-propylamine	9.04	70	128356	22.62	ng/ul#	92
28) Naphthalene	11.12	128	41109	2.25	ng/ul#	95
33) 4-Chloro-3-methylphenol	12.33	107	177841	22.24	ng/ul	94
34) 2-Methylnaphthalene	12.70	142	44474	3.08	ng/ul	94
44) Dimethylphthalate	14.30	163	195943	9.18	ng/ul#	94
49) Acenaphthene	14.92	153	388113	24.49	ng/ul	97
52) 4-Nitrophenol	15.08	109	54927	12.23	ng/ul	90
53) Dibenzofuran	15.25	168	38446	1.53	ng/ul	99
54) 2,4-Dinitrotoluene	15.22	165	154004	22.27	ng/ul	93
68) Pentachlorophenol	17.25	266	99480	21.23	ng/ul	94
69) Phenanthrene	17.64	178	244201	8.34	ng/ul	98
71) Anthracene	17.74	178	47098	1.56	ng/ul#	93
72) Carbazole	18.01	167	25634	1.02	ng/ul#	76
74) Fluoranthene	19.64	202	473197	13.60	ng/ul	98
77) Pyrene	20.01	202	1323118	37.04	ng/ul	99
80) Benzo(a)anthracene	21.88	228	352801	9.14	ng/ul	98
82) Chrysene	21.95	228	430459	11.92	ng/ul	99
85) Benzo(b)fluoranthene	24.23	252	711929	18.71	ng/ul#	94
86) Benzo(k)fluoranthene	24.29	252	274050m	7.58	ng/ul	
88) Benzo(a)pyrene	25.16	252	453596	12.40	ng/ul	100
89) Indeno(1,2,3-cd)pyrene	29.27	276	423246m	9.31	ng/ul	

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121416\
Data File : BG025196.D
Acq On : 15 Dec 2016 4:10
Operator : UM/SJ
Sample : H5970-04MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DA843MSD

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM

Quant Time: Dec 15 05:40:06 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 15 04:58:54 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(q,h,i)perylene	30.50	276	413584m	10.90	ng/ul	

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

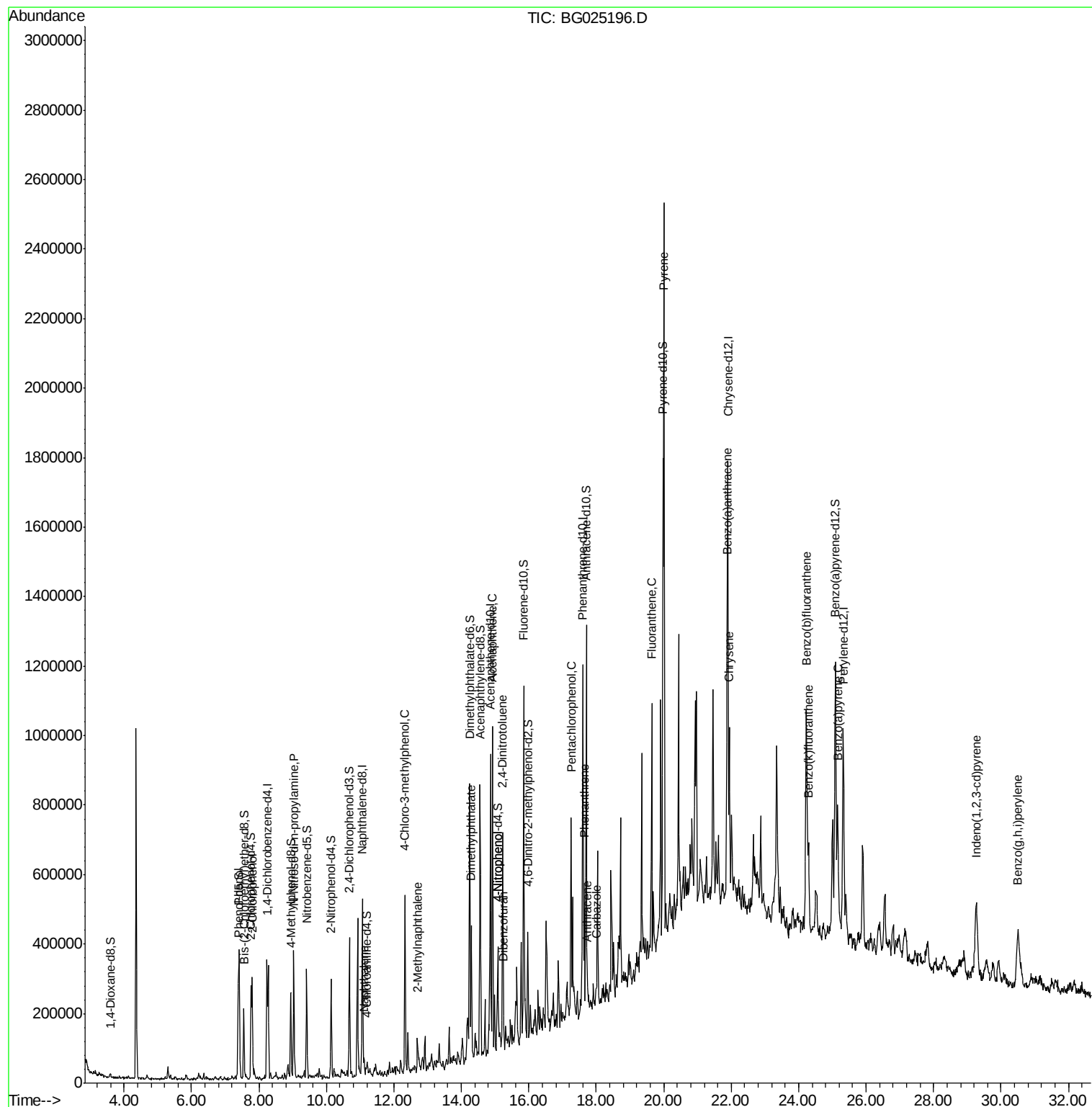
Data Path : Z:\HPCHEM1\BNA G\DATA\BG121416\
Data File : BG025196.D
Acq On : 15 Dec 2016 4:10
Operator : UM/SJ
Sample : H5970-04MSD
Misc :
ALS Vial : 27 Sample Multiplier: 1

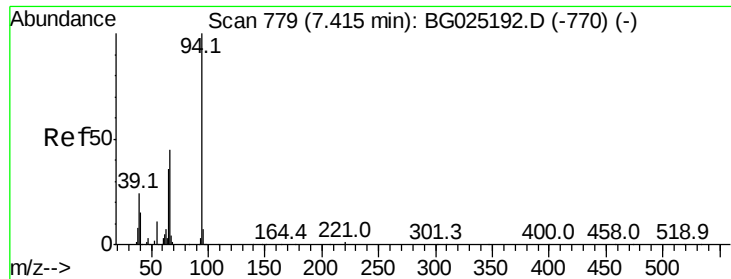
Instrument :
BNA_G
ClientSampleId :
DA843MSD

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM

Quant Time: Dec 15 05:40:06 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Dec 15 04:58:54 2016
Response via : Initial Calibration





#6

Phenol

Concen: 23.34 ng/ul

RT: 7.42 min Scan# 779

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

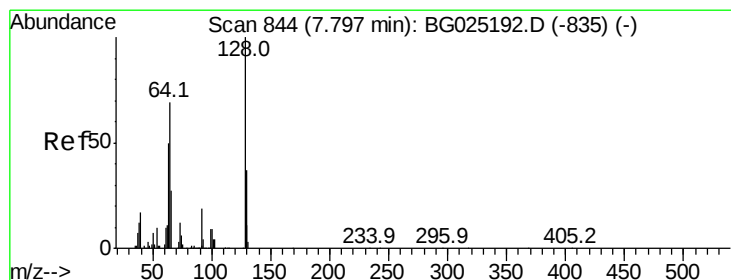
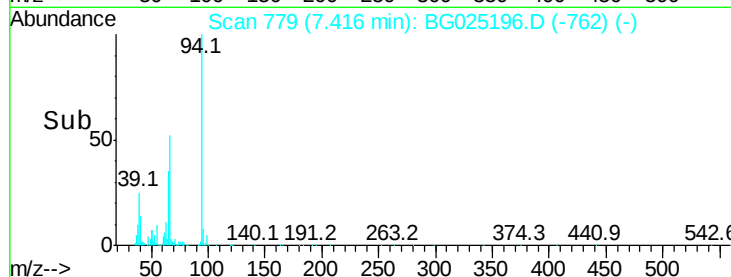
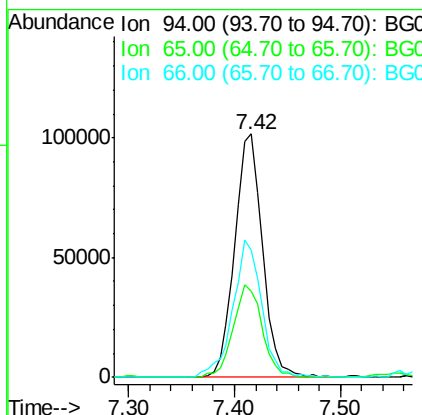
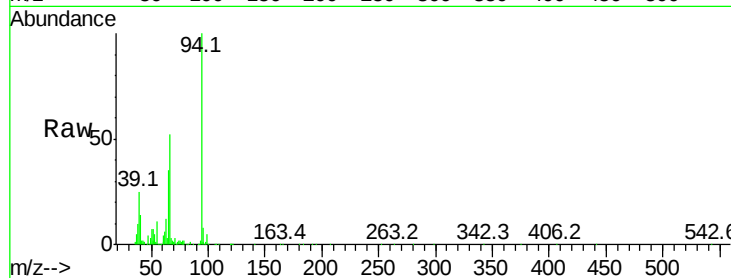
ClientSampled :

DA843MSD

Tot Ion:	94	Resp:	185126
Ion Ratio	Lower	Upper	
94	100		
65	35.3	26.8	40.2
66	52.3	44.4	66.6

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM



#10

2-Chlorophenol

Concen: 20.51 ng/ul

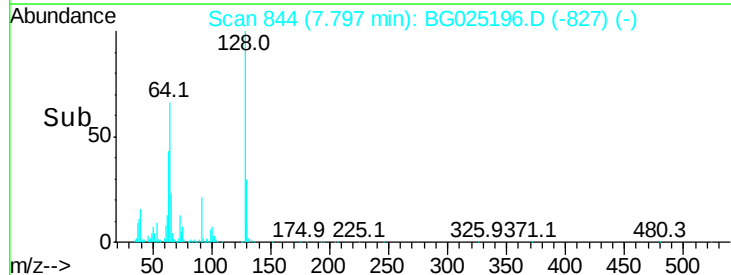
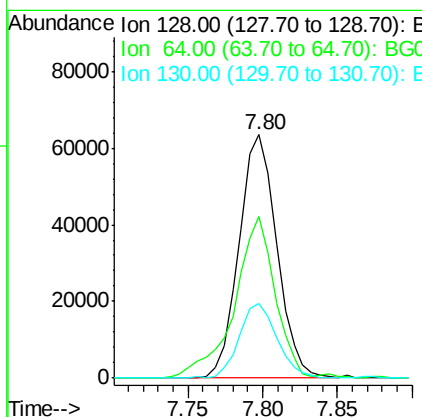
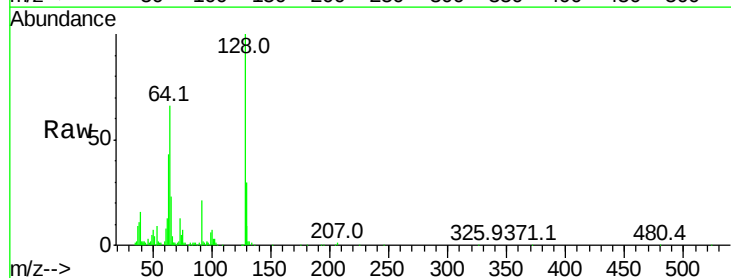
RT: 7.80 min Scan# 844

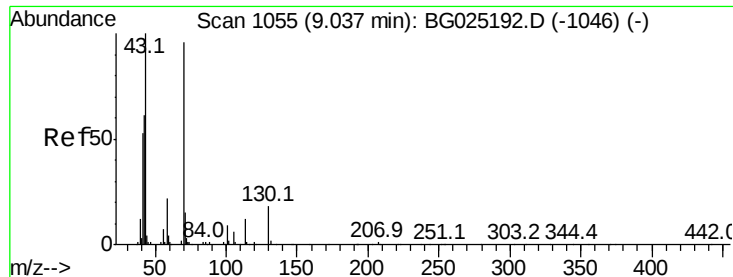
Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Tgt Ion:	128	Resp:	111436
Ion Ratio	Lower	Upper	
128	100		
64	66.4	56.3	84.5
130	30.5	26.7	40.1





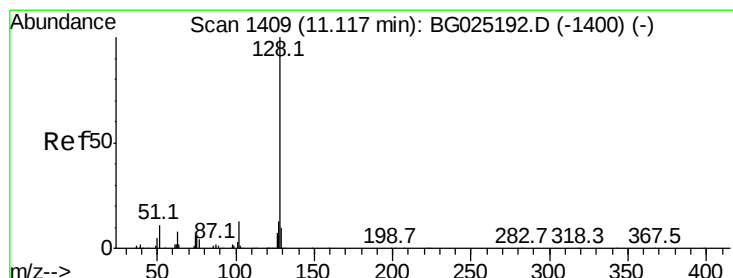
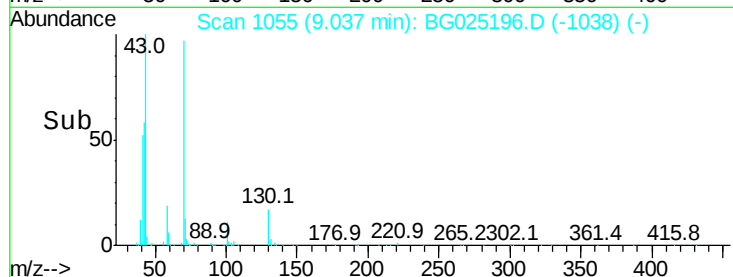
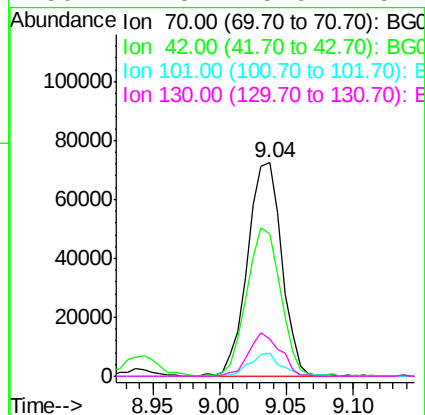
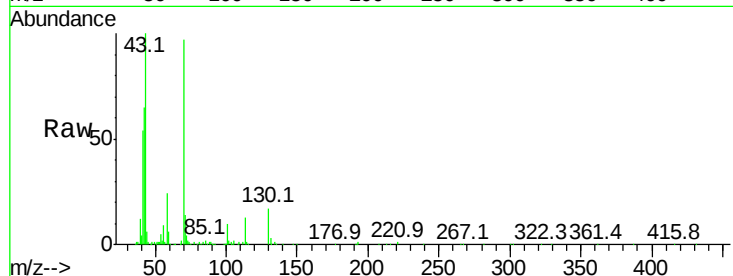
#15
N-Nitroso-di-n-propylamine
Concen: 22.62 ng/ul
RT: 9.04 min Scan# 1055
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Instrument :
BNA_G
ClientSampleId :
DA843MSD

Tot Ion	Ratio	Lower	Upper
70	100		
42	66.4	59.0	88.6
101	10.5	6.6	9.8#
130	17.3	15.6	23.4

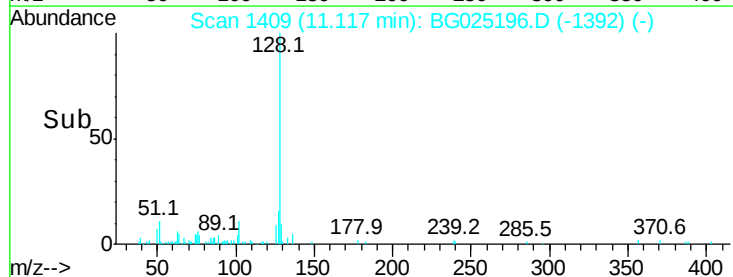
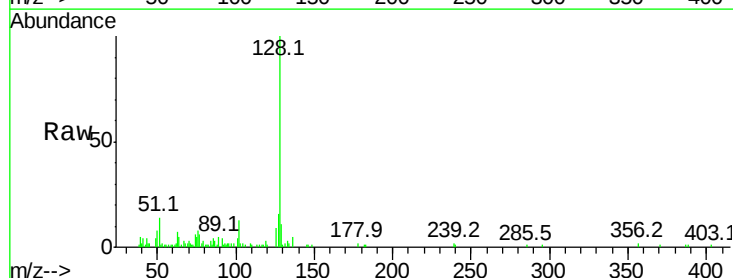
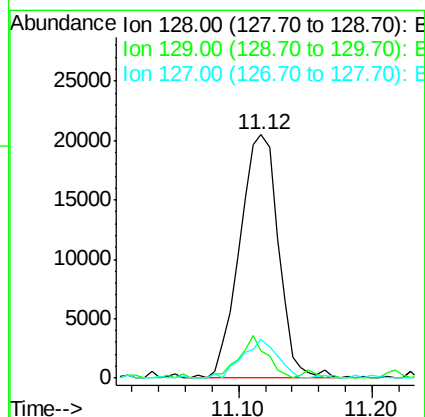
Manual Integrations
APPROVED

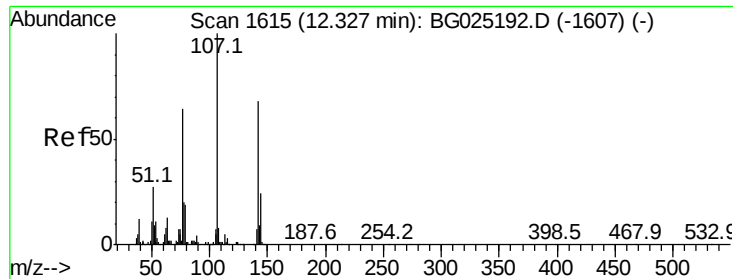
sohil
12/15/2016 5:44:48 PM



#28
Naphthalene
Concen: 2.25 ng/ul
RT: 11.12 min Scan# 1409
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.4	14.2
127	16.0	10.3	15.5#





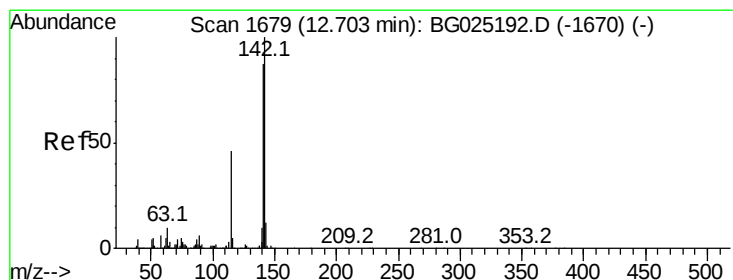
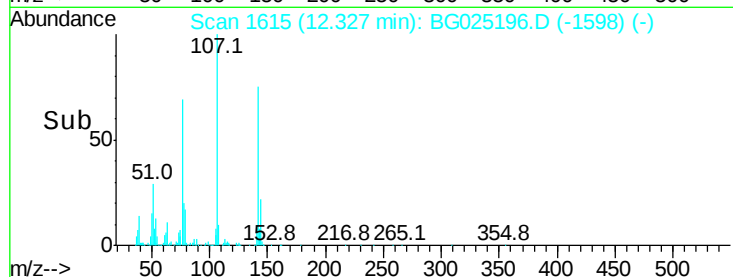
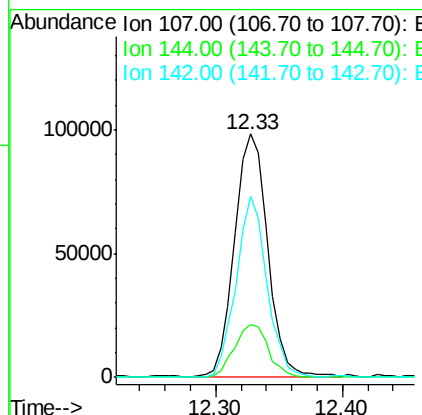
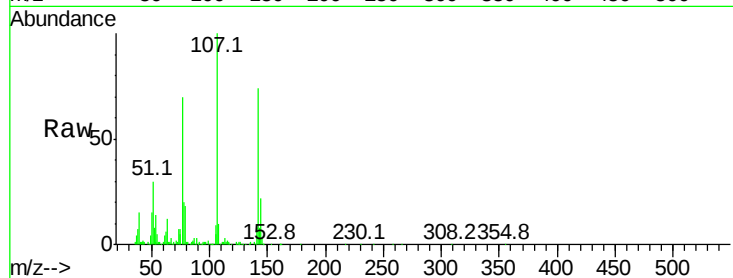
#33
4-Chloro-3-methylphenol
Concen: 22.24 ng/ul
RT: 12.33 min Scan# 1615
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Instrument :
BNA_G
ClientSampled :
DA843MSD

Tot Ion	Ratio	Lower	Upper
107	100		
144	21.5	18.2	27.4
142	74.1	55.0	82.4

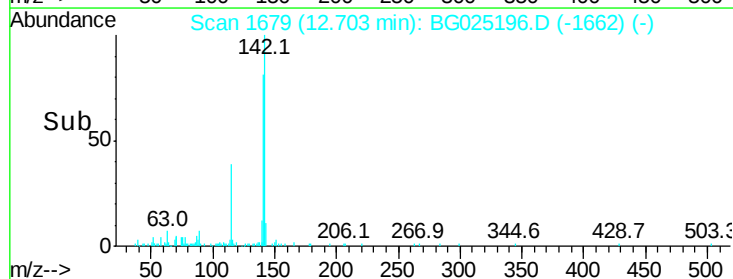
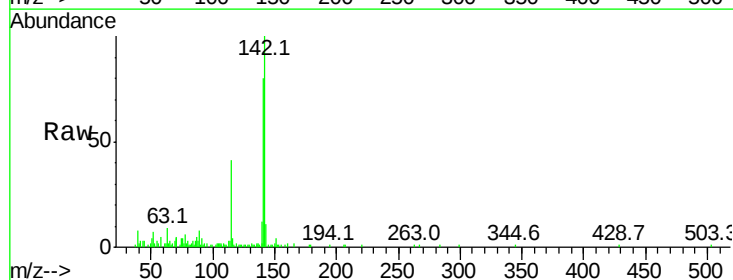
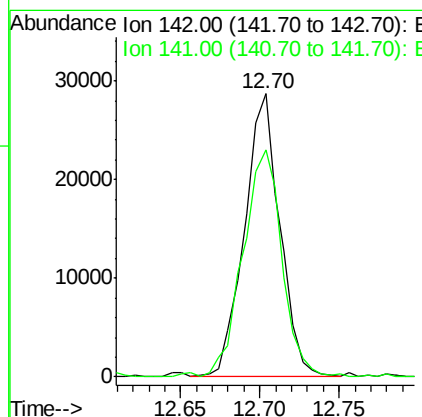
Manual Integrations
APPROVED

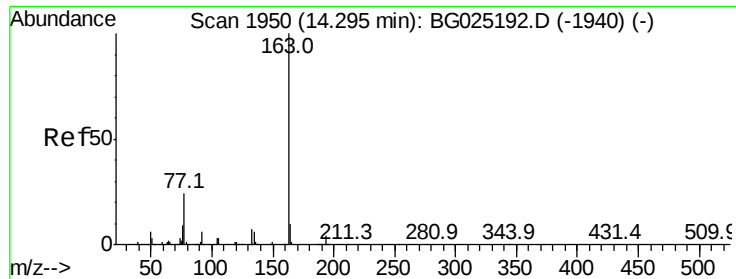
sohil
12/15/2016 5:44:48 PM



#34
2-Methylnaphthalene
Concen: 3.08 ng/ul
RT: 12.70 min Scan# 1679
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Tgt Ion	Ratio	Lower	Upper
142	100		
141	80.3	68.6	102.8





#44

Dimethylphthalate

Concen: 9.18 ng/ul

RT: 14.30 min Scan# 1950

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

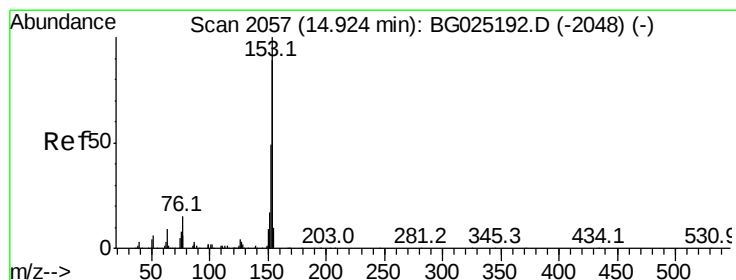
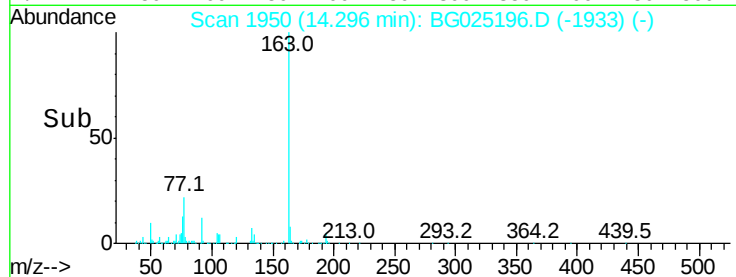
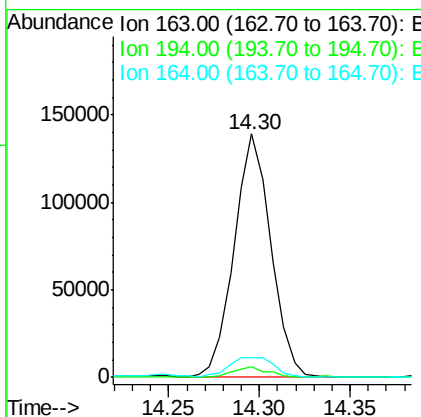
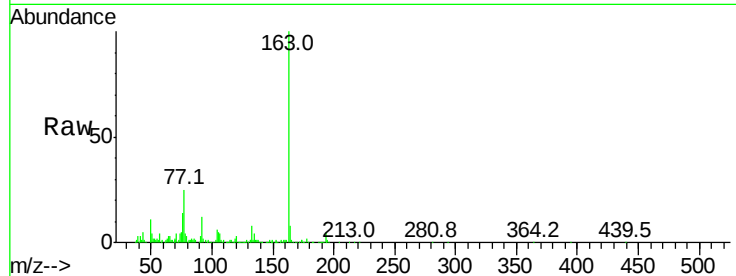
ClientSampleId :

DA843MSD

Tot Ion	Ratio	Resp Lower	Upper
163	100		
194	4.6	3.4	5.0
164	8.3	9.0	13.4#

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM



#49

Acenaphthene

Concen: 24.49 ng/ul

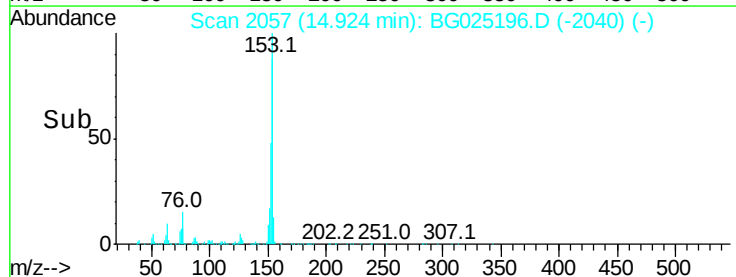
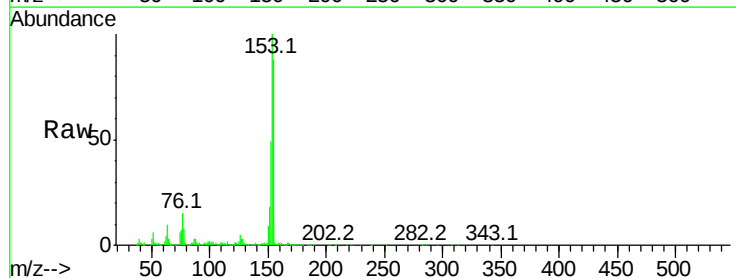
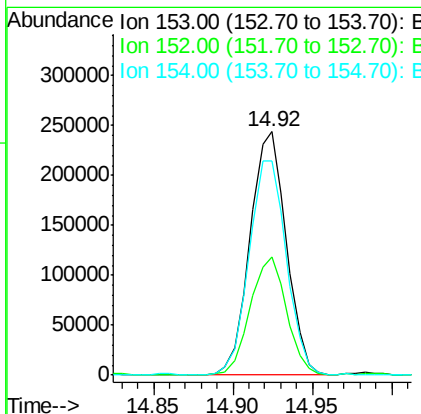
RT: 14.92 min Scan# 2057

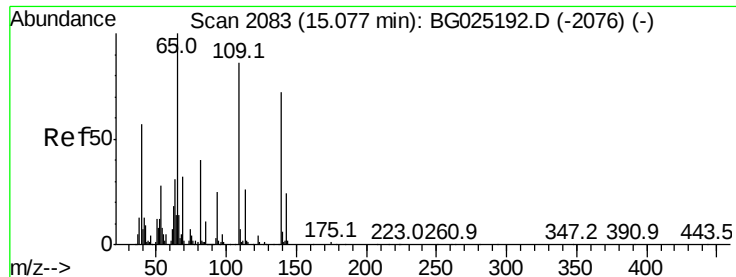
Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Tgt Ion	Ratio	Resp Lower	Upper
153	100		
152	48.6	36.5	54.7
154	88.0	72.3	108.5





#52

4-Nitrophenol

Concen: 12.23 ng/ul

RT: 15.08 min Scan# 2084

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

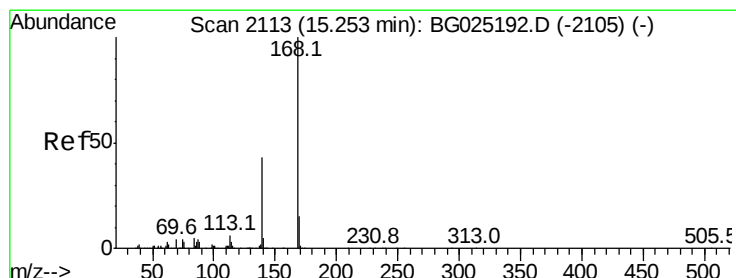
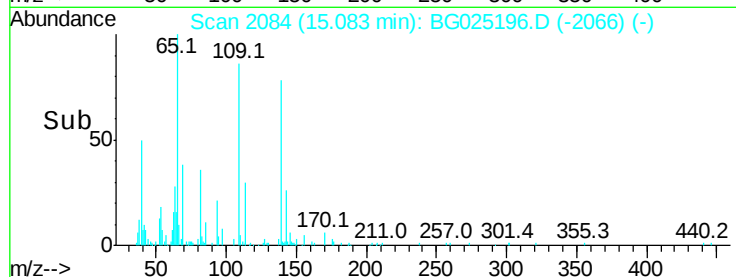
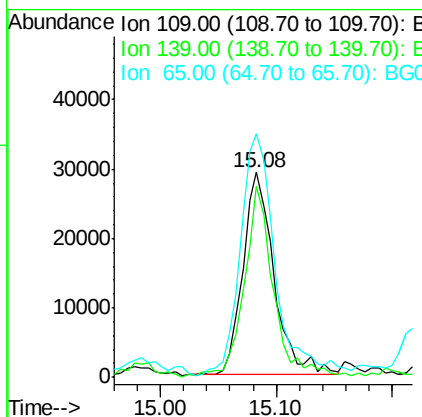
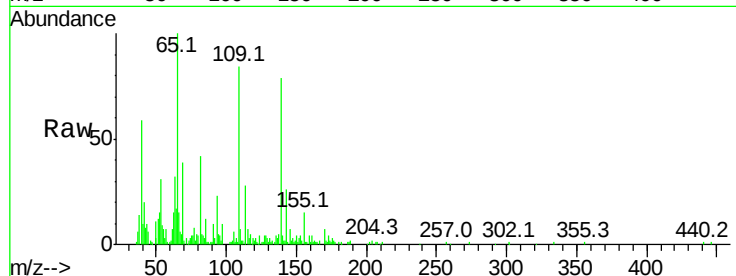
ClientSampleId :

DA843MSD

Tot Ion:	109	Resp:	54927
Ion Ratio	Lower	Upper	
109	100		
139	93.3	62.6	93.8
65	118.9	90.4	135.6

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM



#53

Dibenzofuran

Concen: 1.53 ng/ul

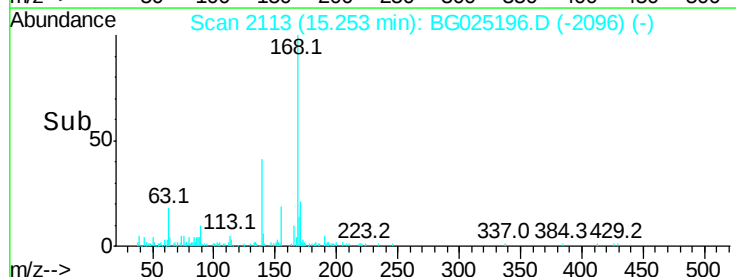
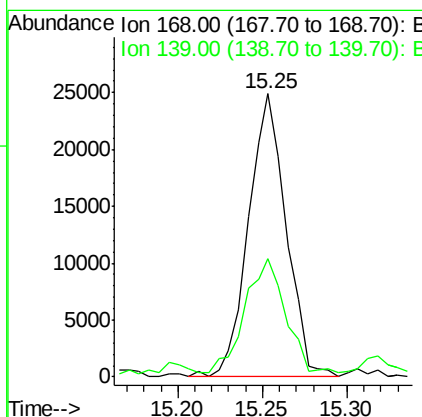
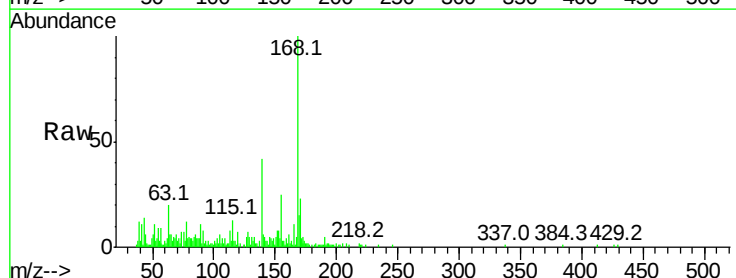
RT: 15.25 min Scan# 2113

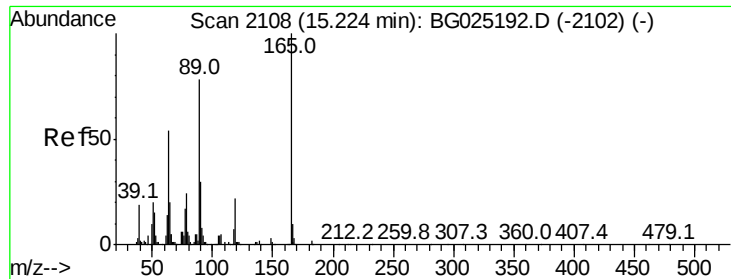
Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Tgt Ion:	168	Resp:	38446
Ion Ratio	Lower	Upper	
168	100		
139	41.8	33.8	50.8





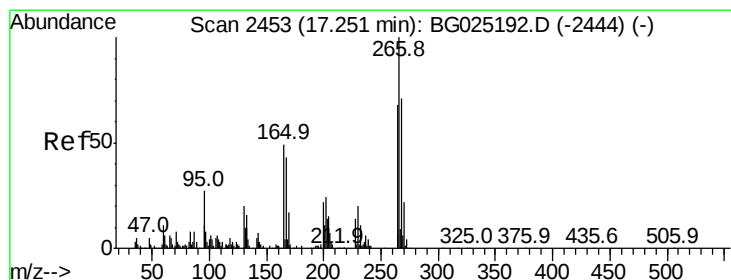
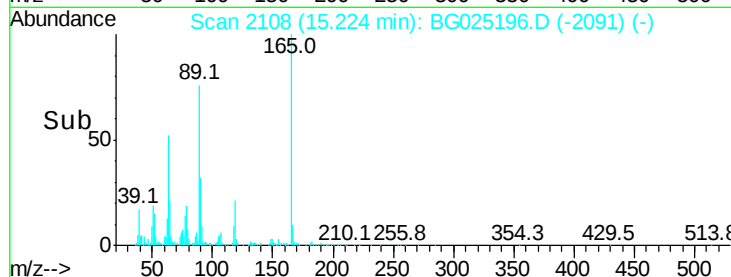
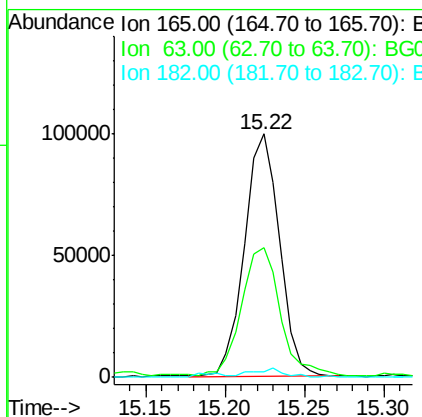
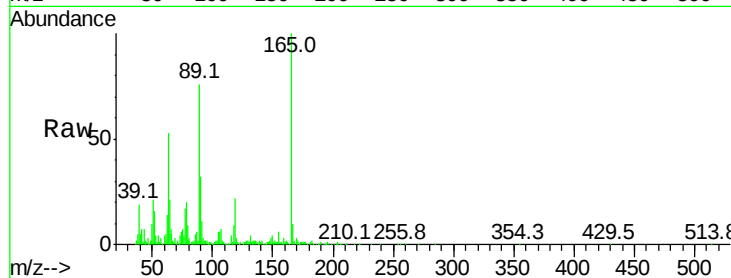
#54
2,4-Dinitrotoluene
Concen: 22.27 ng/ul
RT: 15.22 min Scan# 2108
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Instrument :
BNA_G
ClientSampled :
DA843MSD

Tot Ion	Ratio	Lower	Upper
165	100		
63	53.2	46.8	70.2
182	2.3	1.8	2.6

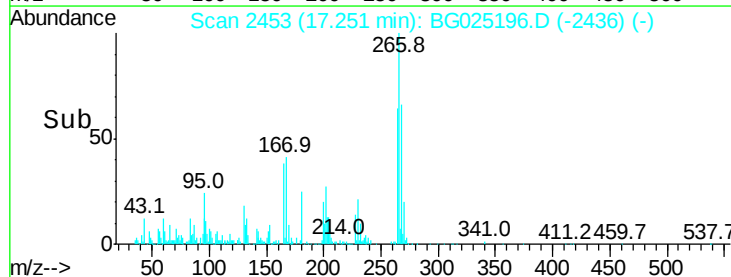
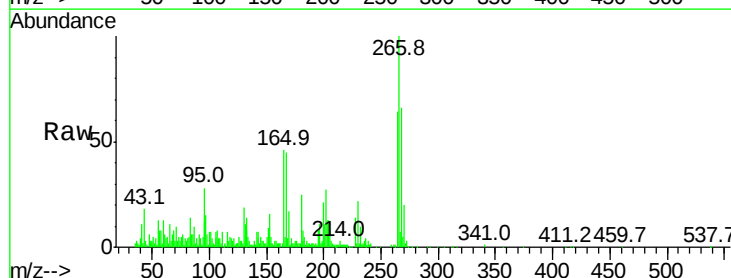
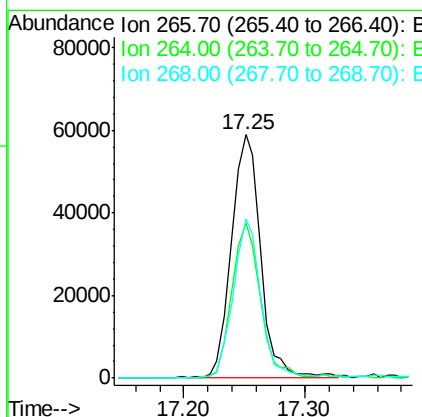
Manual Integrations
APPROVED

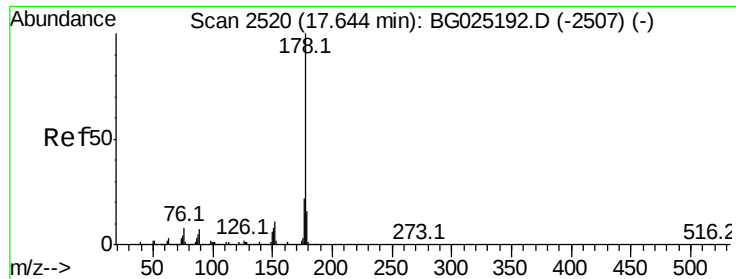
sohil
12/15/2016 5:44:48 PM



#68
Pentachlorophenol
Concen: 21.23 ng/ul
RT: 17.25 min Scan# 2453
Delta R.T. 0.00 min
Lab File: BG025196.D
Acq: 15 Dec 2016 4:10

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.6	47.1	70.7
268	65.5	56.2	84.4





#69

Phenanthrene

Concen: 8.34 ng/ul

RT: 17.64 min Scan# 2520

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

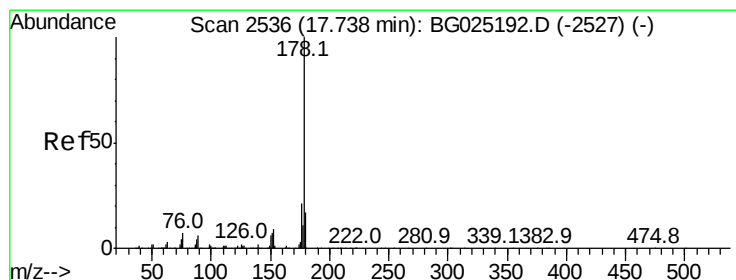
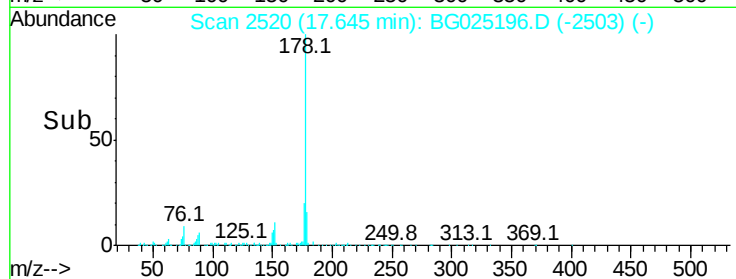
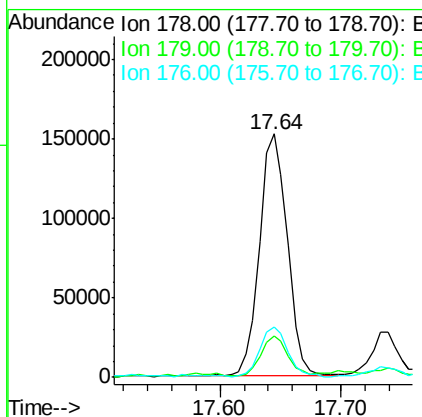
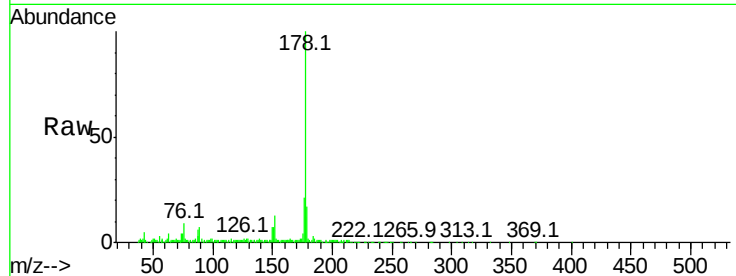
ClientSampleId :

DA843MSD

Tot Ion:	178	Resp:	244201
Ion Ratio	Lower	Upper	
178	100		
179	17.2	12.4	18.6
176	20.5	16.5	24.7

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM



#71

Anthracene

Concen: 1.56 ng/ul

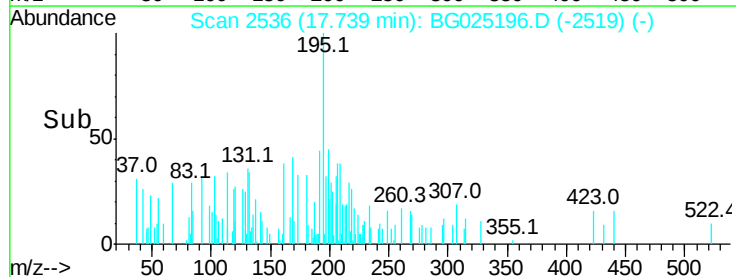
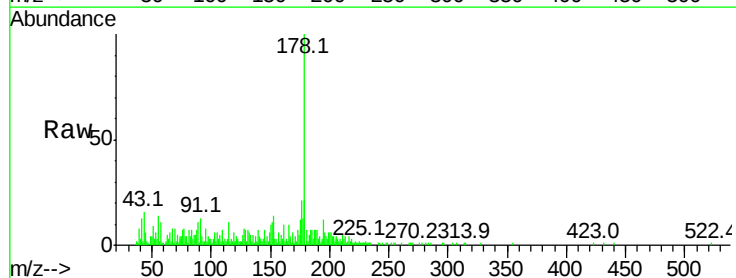
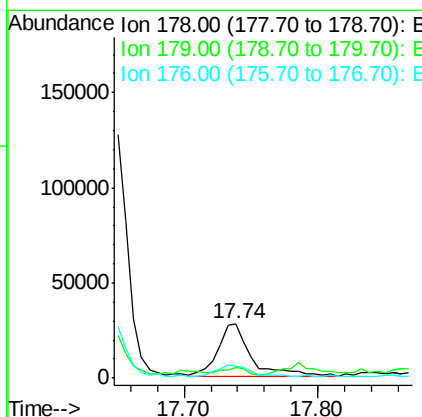
RT: 17.74 min Scan# 2536

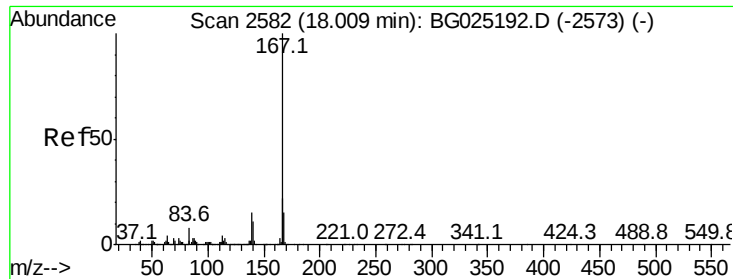
Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Tgt Ion:	178	Resp:	47098
Ion Ratio	Lower	Upper	
178	100		
179	20.7	12.6	19.0#
176	21.5	15.9	23.9





#72

Carbazole

Concen: 1.02 ng/ul

RT: 18.01 min Scan# 2582

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

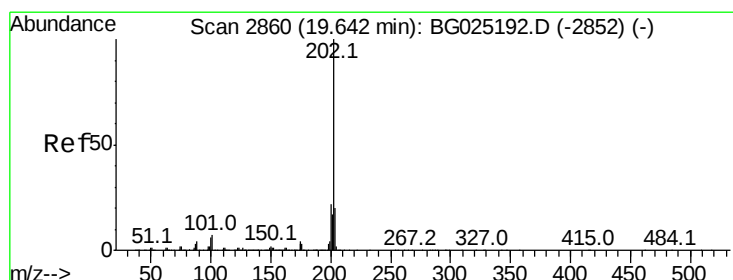
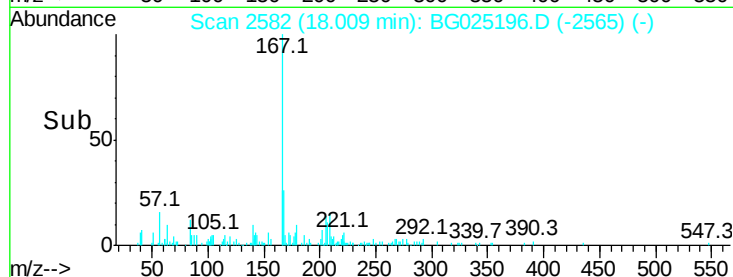
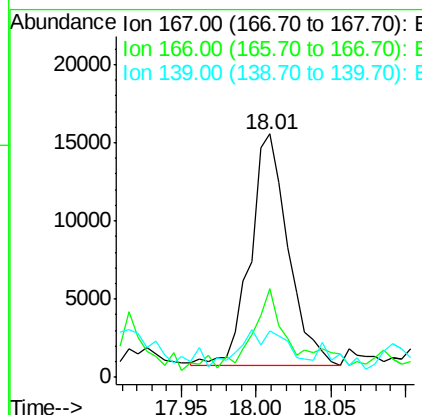
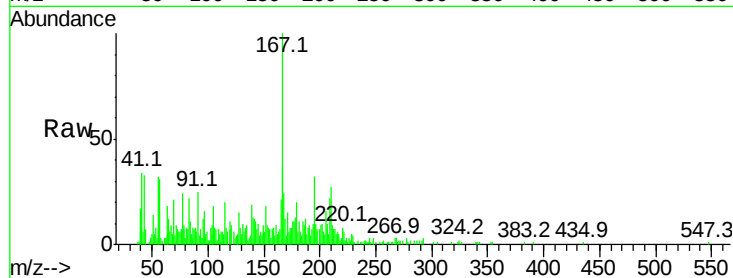
ClientSampleId :

DA843MSD

Tot Ion:	167	Resp:	25634
Ion Ratio	Lower	Upper	
167	100		
166	36.7	17.9	26.9#
139	19.1	10.5	15.7#

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM



#74

Fluoranthene

Concen: 13.60 ng/ul

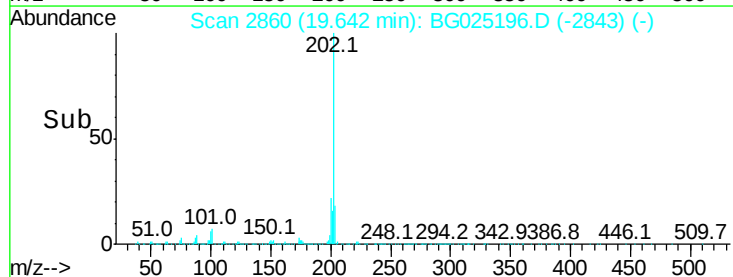
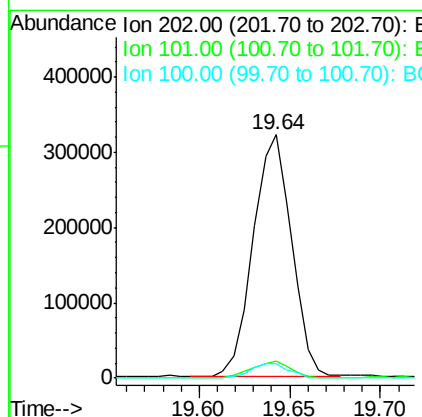
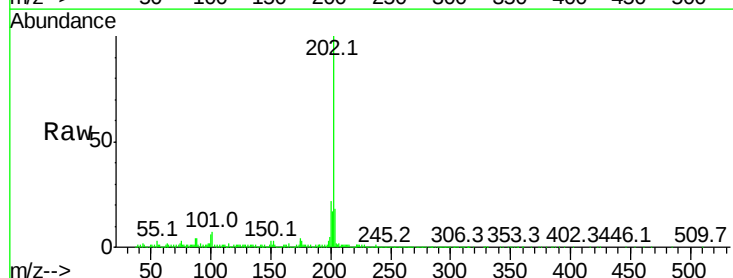
RT: 19.64 min Scan# 2860

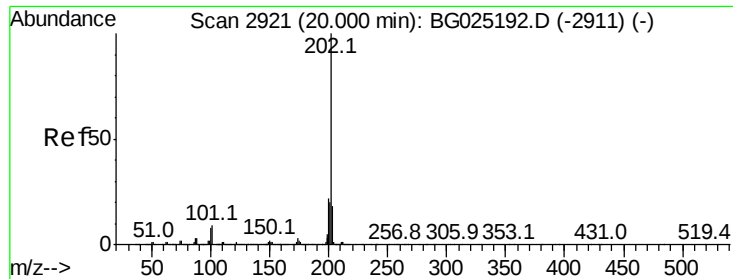
Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Tgt Ion:	202	Resp:	473197
Ion Ratio	Lower	Upper	
202	100		
101	7.2	6.2	9.2
100	5.8	5.2	7.8





#77

Pvrene

Concen: 37.04 ng/ul

RT: 20.01 min Scan# 2922

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

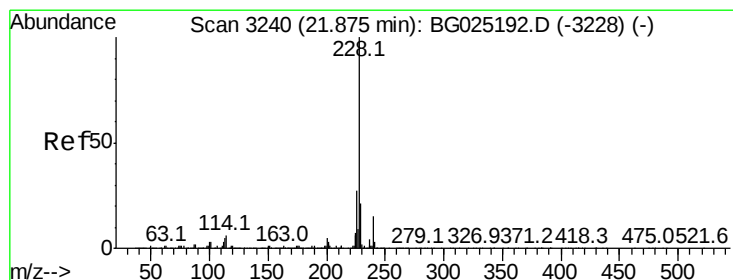
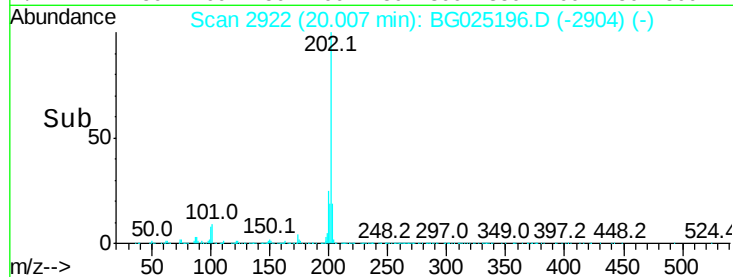
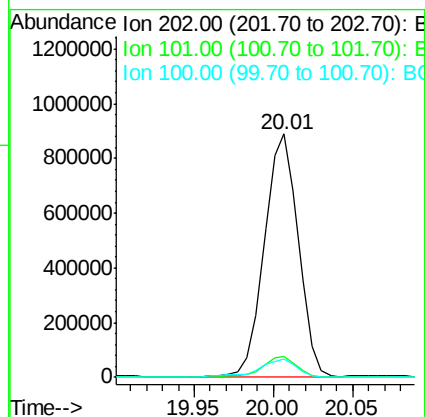
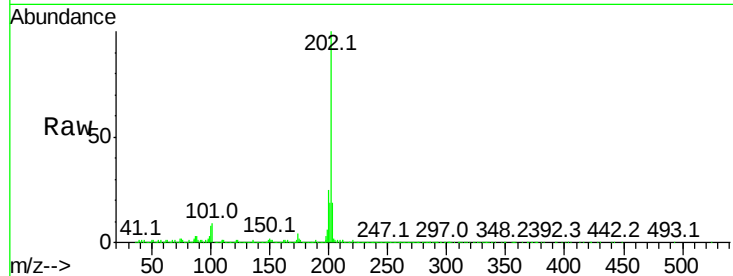
ClientSampleId :

DA843MSD

Tot Ion:	202	Resp:	1323118
Ion Ratio	Lower	Upper	
202	100		
101	8.6	6.9	10.3
100	7.6	6.6	10.0

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM



#80

Benzo(a)anthracene

Concen: 9.14 ng/ul

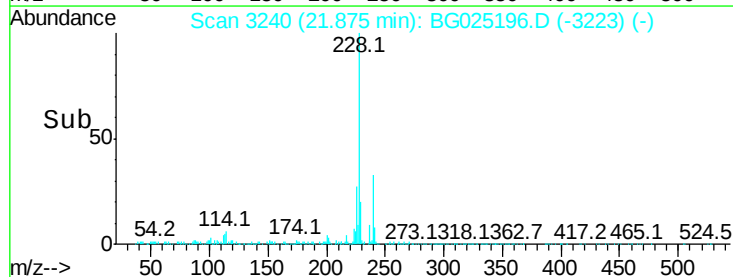
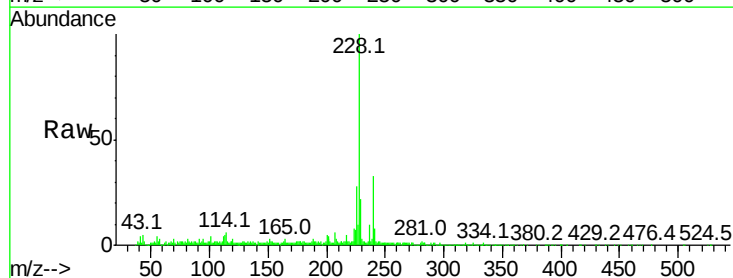
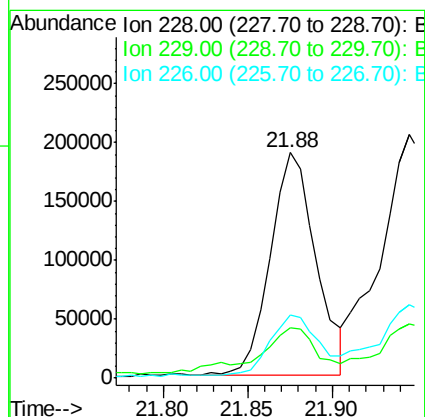
RT: 21.88 min Scan# 3240

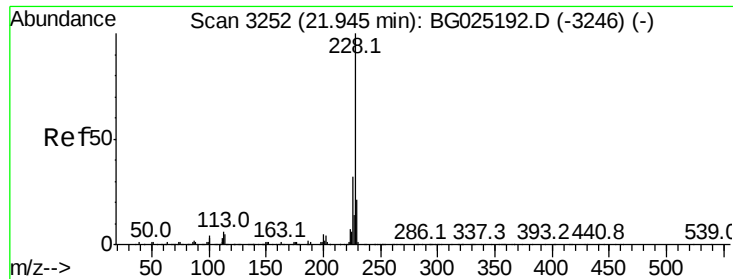
Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Tgt Ion:	228	Resp:	352801
Ion Ratio	Lower	Upper	
228	100		
229	22.4	16.3	24.5
226	28.0	21.9	32.9





#82

Chrysene

Concen: 11.92 ng/ul

RT: 21.95 min Scan# 3252

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

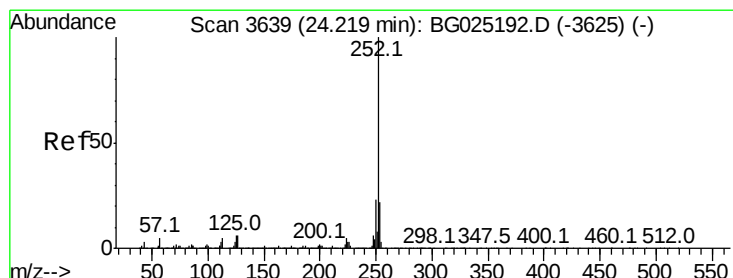
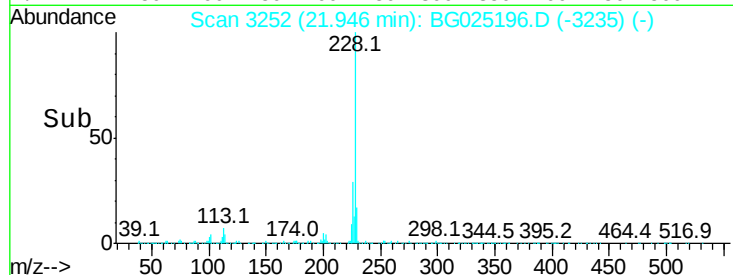
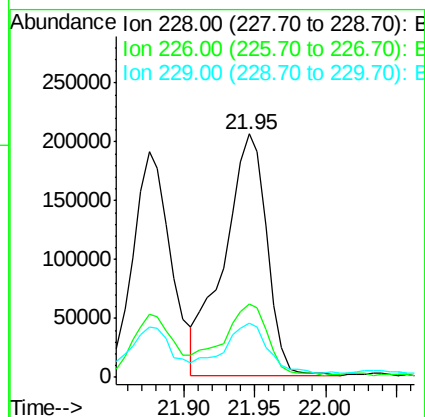
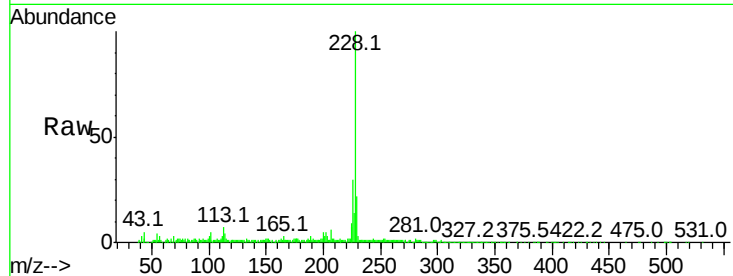
ClientSampleId :

DA843MSD

Tot Ion:	228	Resp:	430459
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.0	36.0
229	22.2	16.9	25.3

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM



#85

Benzo(b)fluoranthene

Concen: 18.71 ng/ul

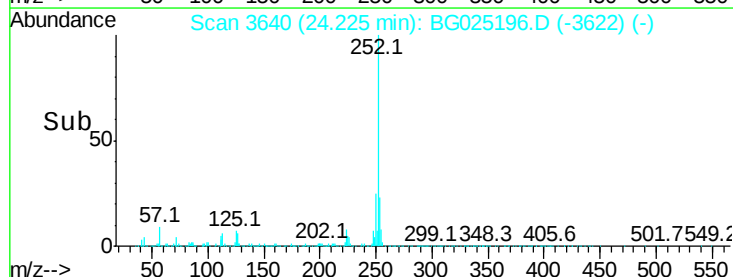
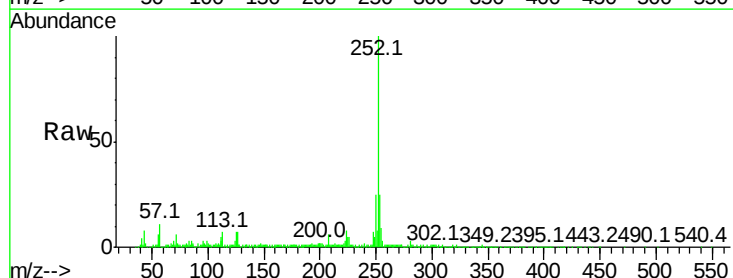
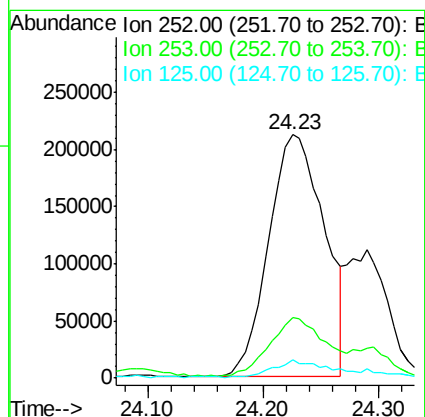
RT: 24.23 min Scan# 3640

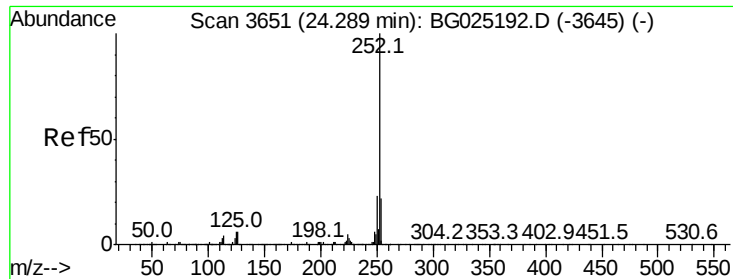
Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Tgt Ion:	252	Resp:	711929
Ion Ratio	Lower	Upper	
252	100		
253	24.8	17.7	26.5
125	7.4	4.0	6.0#





#86

Benzo(k)fluoranthene

Concen: 7.58 ng/ul m

RT: 24.29 min Scan# 3651

Delta R.T. 0.00 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

ClientSampleId :

DA843MSD

Tot Ion:252 Resp: 274050

Ion Ratio Lower Upper

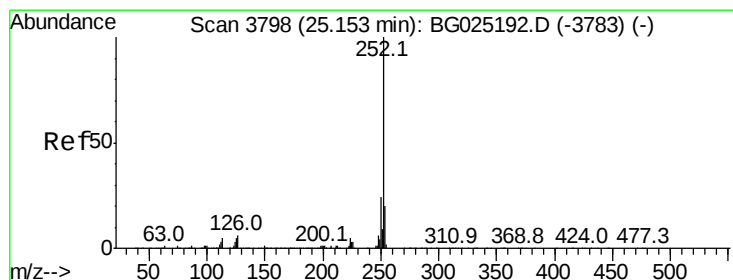
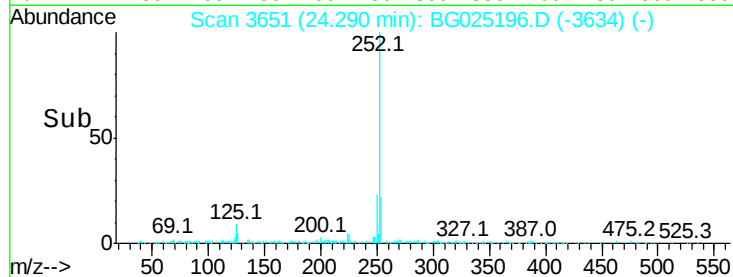
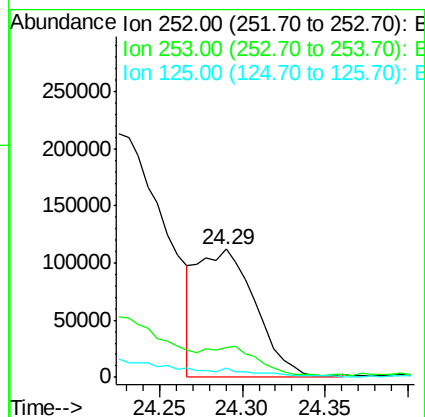
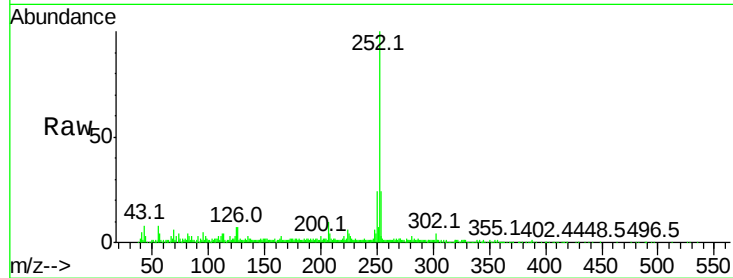
252 100

253 23.6 18.5 27.7

125 7.4 4.1 6.1#

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM



#88

Benzo(a)pyrene

Concen: 12.40 ng/ul

RT: 25.16 min Scan# 3799

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

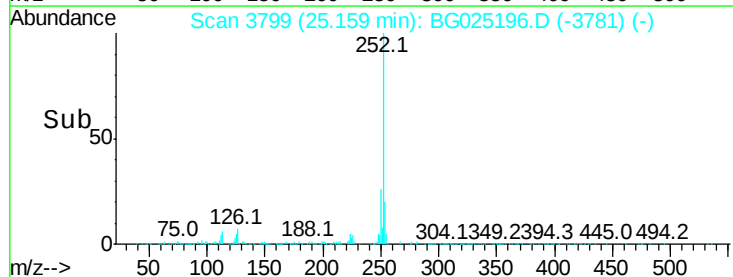
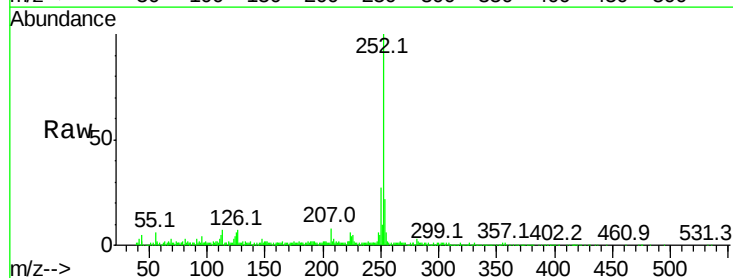
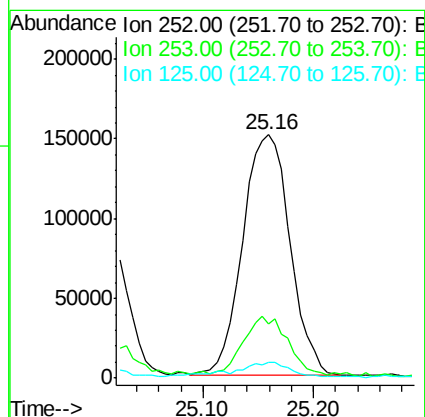
Tgt Ion:252 Resp: 453596

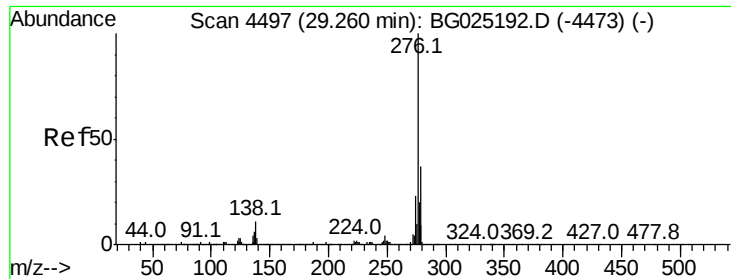
Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.6

125 6.4 5.4 8.0





#89

Indeno(1,2,3-cd)pyrene

Concen: 9.31 ng/ul m

RT: 29.27 min Scan# 4498

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Instrument :

BNA_G

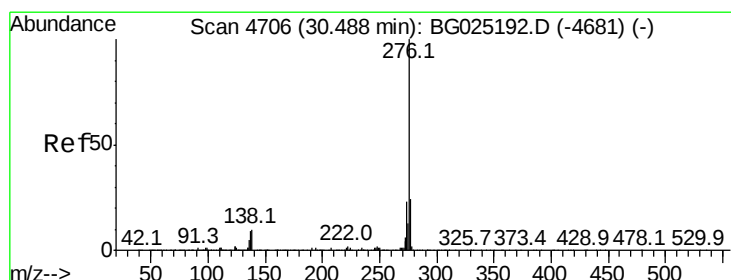
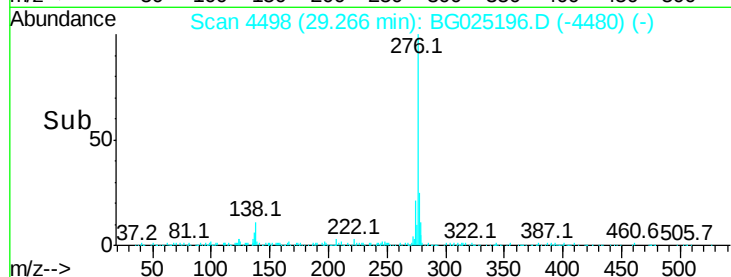
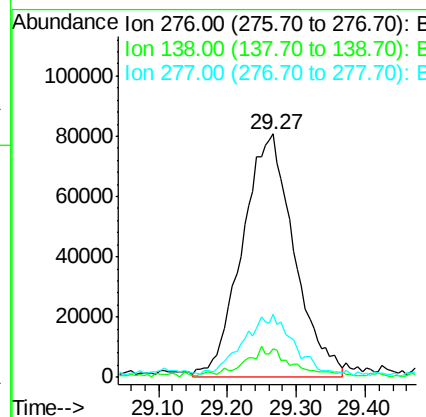
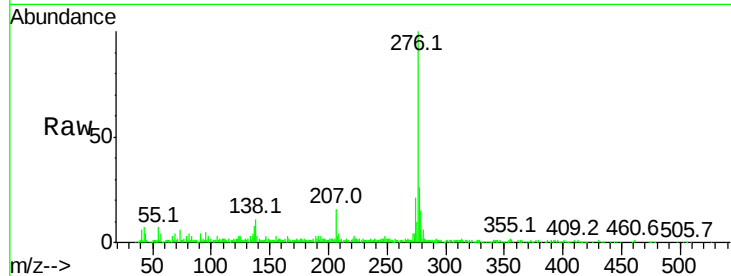
ClientSampleId :

DA843MSD

Tot Ion:	276	Resp:	423246
Ion Ratio	Lower	Upper	
276	100		
138	11.5	8.2	12.4
277	26.0	18.6	28.0

Manual Integrations
APPROVED

sohil
12/15/2016 5:44:48 PM



#91

Benzo(g,h,i)perylene

Concen: 10.90 ng/ul m

RT: 30.50 min Scan# 4708

Delta R.T. 0.01 min

Lab File: BG025196.D

Acq: 15 Dec 2016 4:10

Tgt Ion:	276	Resp:	413584
Ion Ratio	Lower	Upper	
276	100		
138	8.9	8.6	12.8
277	23.1	17.6	26.4

