

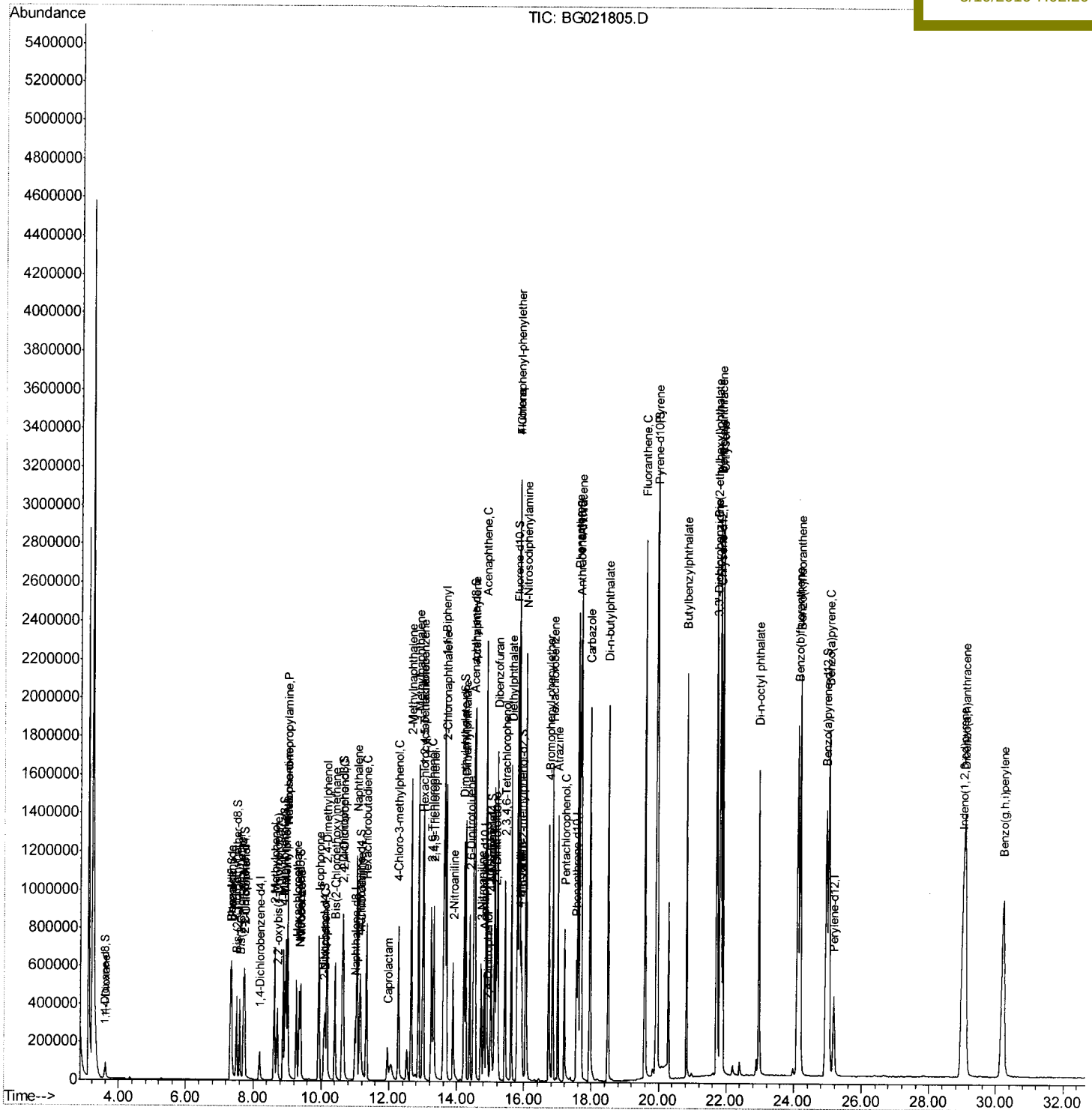
```
Data Path   : Z:\HPCHEM1\BNA G\DATA\BG050916\  
Data File  : BG021805.D  
Acq On     : 9 May 2016 12:35  
Operator   : UM/SJ  
Sample     : SSTD08011  
Misc       :  
ALS Vial   : 6      Sample Multiplier: 1
```

Quant Time: May 09 13:47:02 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 09 12:51:39 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTD08011

Manual Integrations

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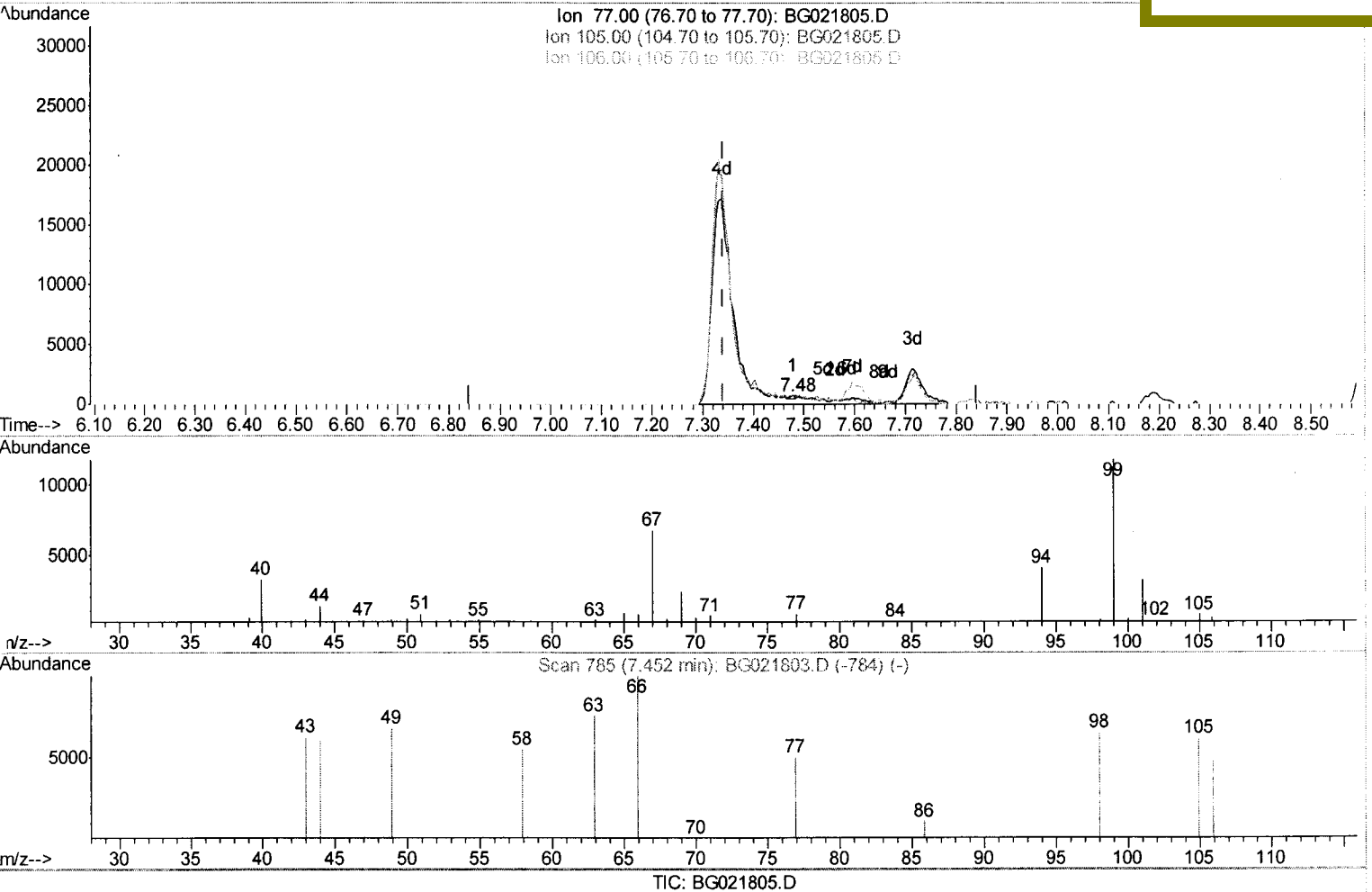
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
Data File : BG021805.D
Acq On : 9 May 2016 12:35
Operator : UM/SJ
Sample : SSTD08011
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTD08011

Quant Time: May 09 13:42:35 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 09 12:51:39 2016
Response via : Initial Calibration

Manual Integrations
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(4) Benzaldehyde

7.479min (+0.138) 0.06ng/ul

response 259

Ion	Exp%	Act%
77.00	100	100
105.00	85.60	98.21
106.00	81.20	71.98
0.00	0.00	0.00

Quantitation Report (Qedit)

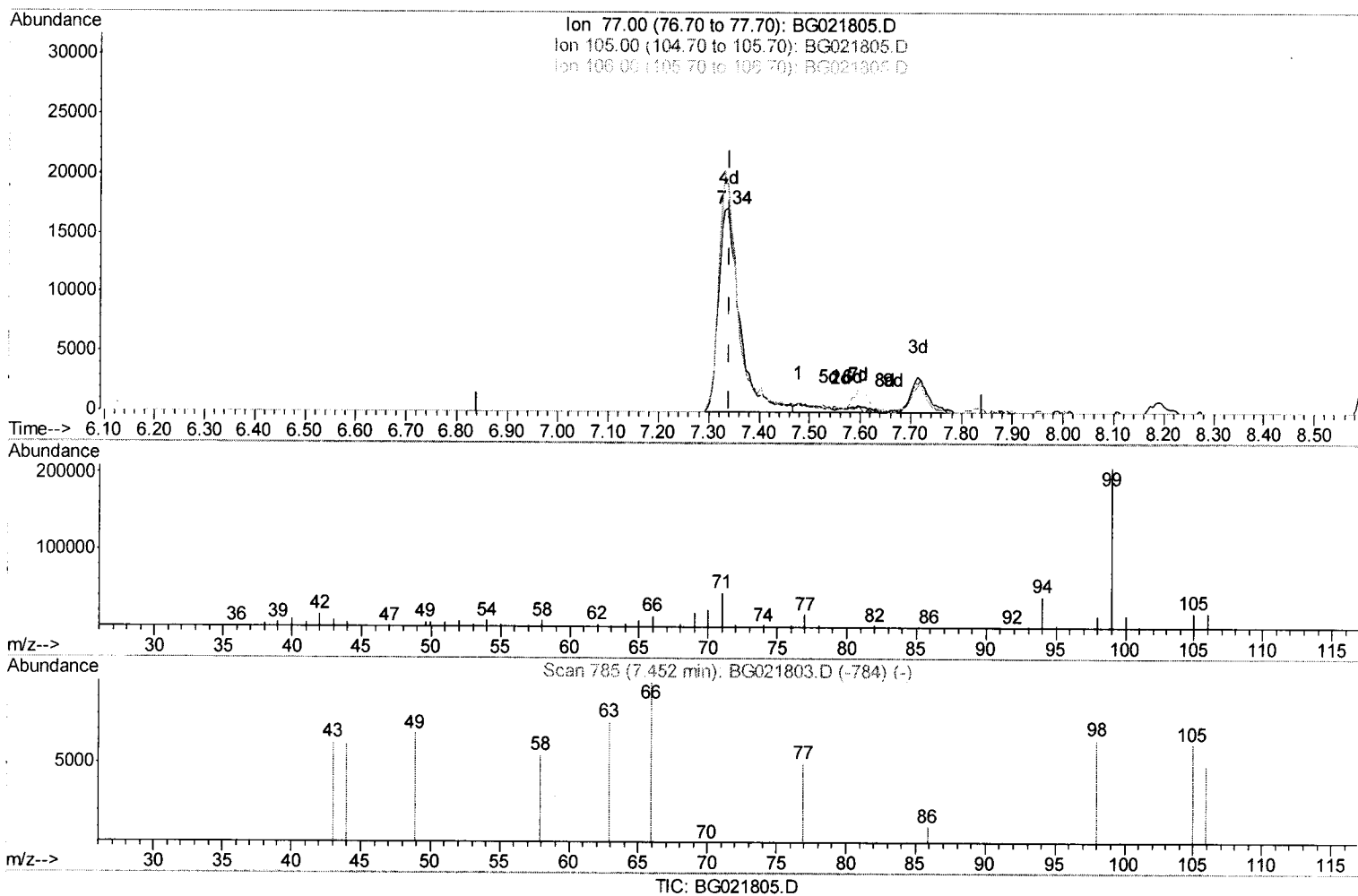
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
 Data File : BG021805.D
 Acq On : 9 May 2016 12:35
 Operator : UM/SJ
 Sample : SST08011
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SST08011

Manual Integrations
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Quant Time: May 09 13:42:35 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 09 12:51:39 2016
 Response via : Initial Calibration



(4) Benzaldehyde

7.338min (-0.003) 12.31ng/ul m

response 49918

Ion	Exp%	Act%
77.00	100	100
105.00	85.60	110.76#
106.00	81.20	108.15#
0.00	0.00	0.00

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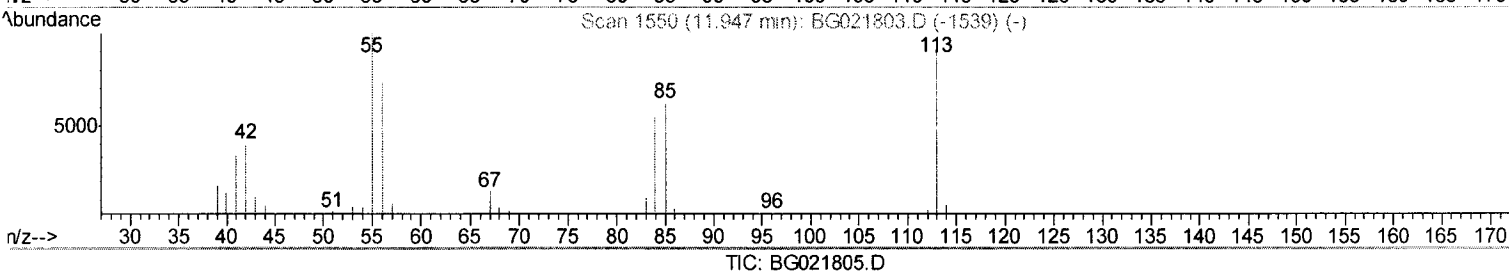
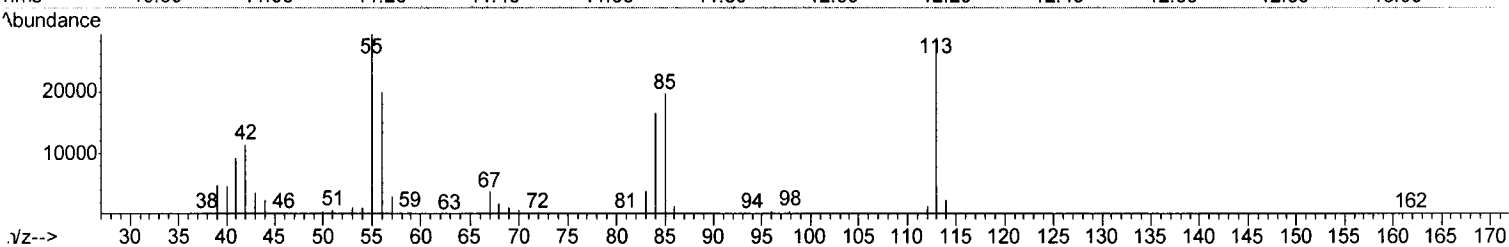
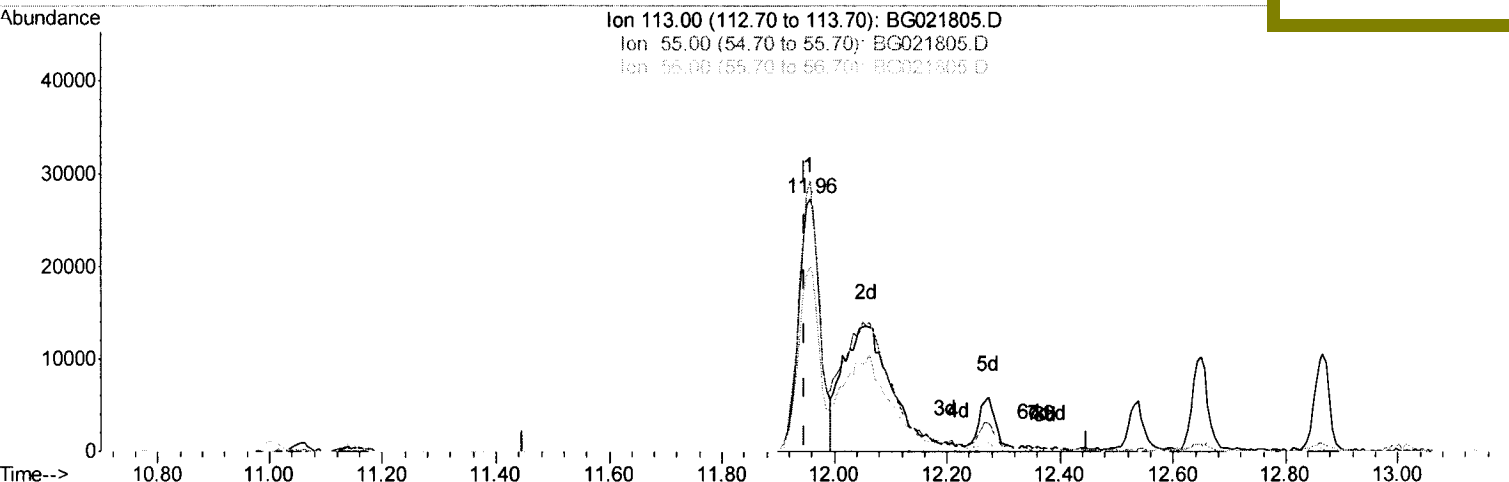
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
Data File : BG021805.D
Acq On : 9 May 2016 12:35
Operator : UM/SJ
Sample : SSTD08011
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTD08011

Manual Integrations
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Quant Time: Mav 09 13:42:35 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 09 12:51:39 2016
Response via : Initial Calibration



(32) Caprolactam

11.956min (+0.009) 32.38ng/ul

response 70551

Ion	Exp%	Act%
113.00	100	100
55.00	194.40	107.18#
56.00	132.10	73.02#
0.00	0.00	0.00

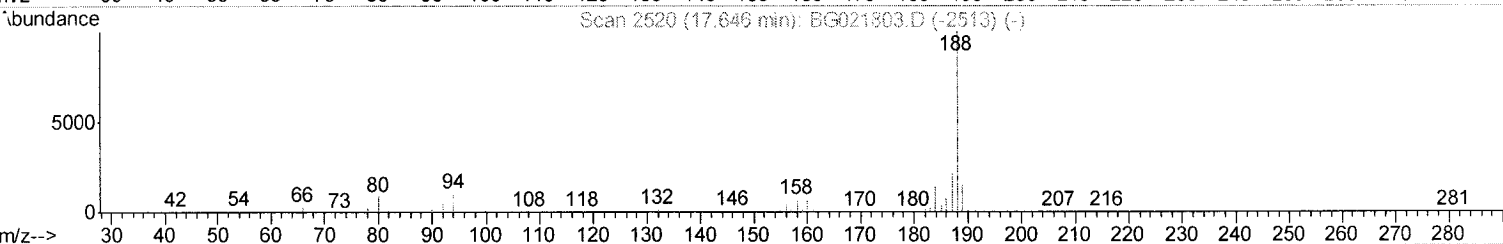
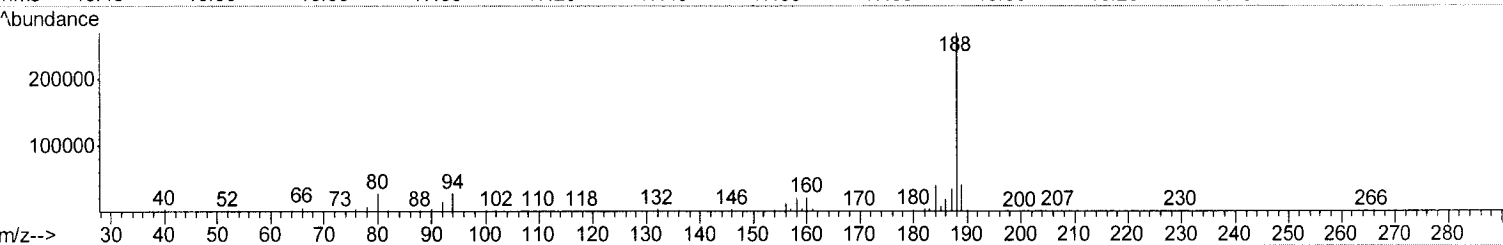
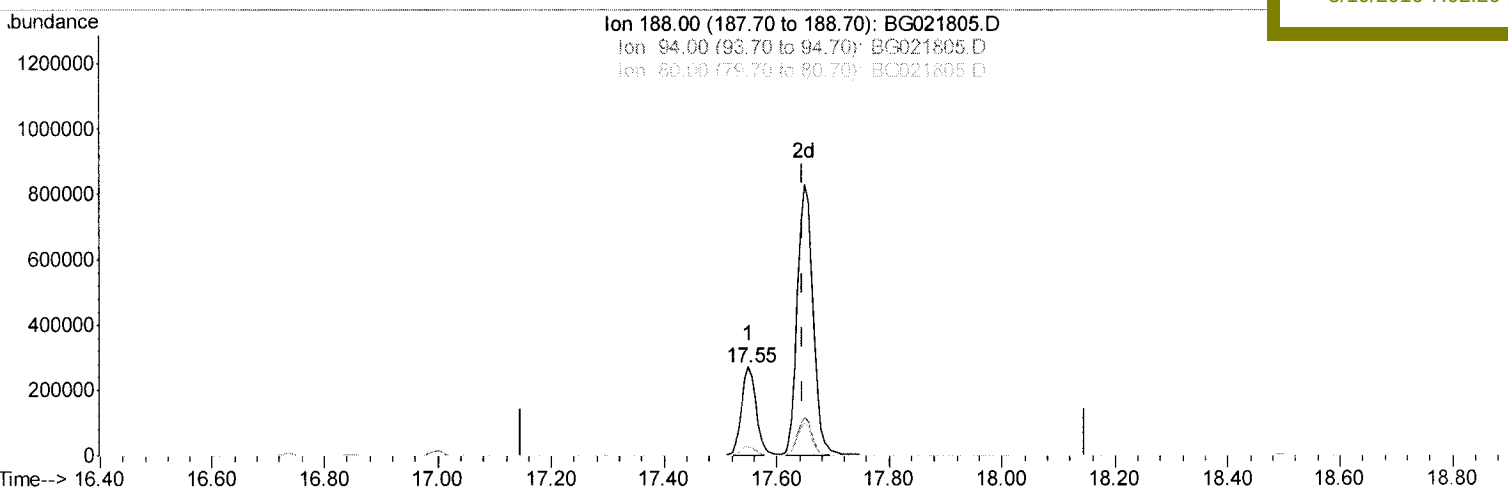
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
Data File : BG021805.D
Acq On : 9 May 2016 12:35
Operator : UM/SJ
Sample : SSTD08011
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTD08011

Quant Time: May 09 13:42:35 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 09 12:51:39 2016
Response via : Initial Calibration

Manual Integrations
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TIC: BG021805.D

(71) Anthracene-d10 (S)

17.549min (-0.097) 20.41ng/ul

response 489036

Ion	Exp%	Act%
188.00	100	100
94.00	10.70	10.04
80.00	10.80	10.18
0.00	0.00	0.00

Quantitation Report (Qedit)

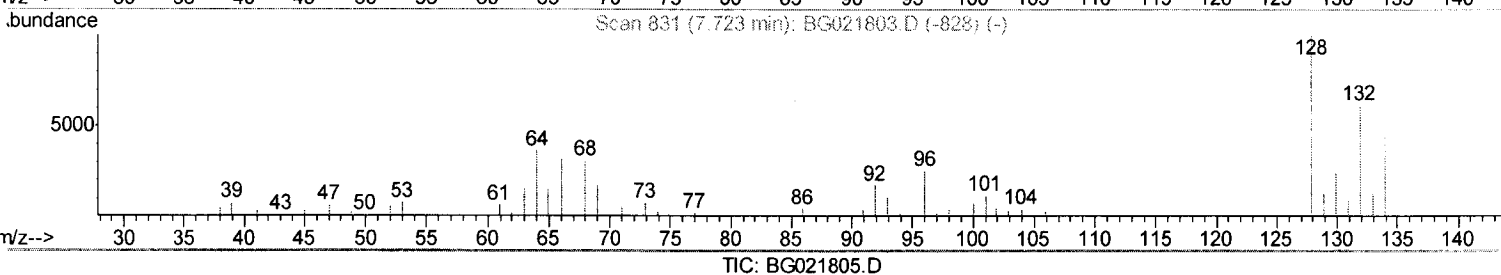
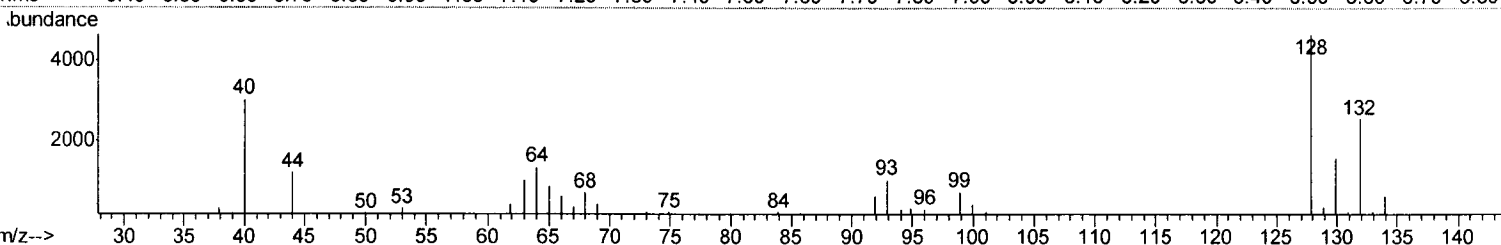
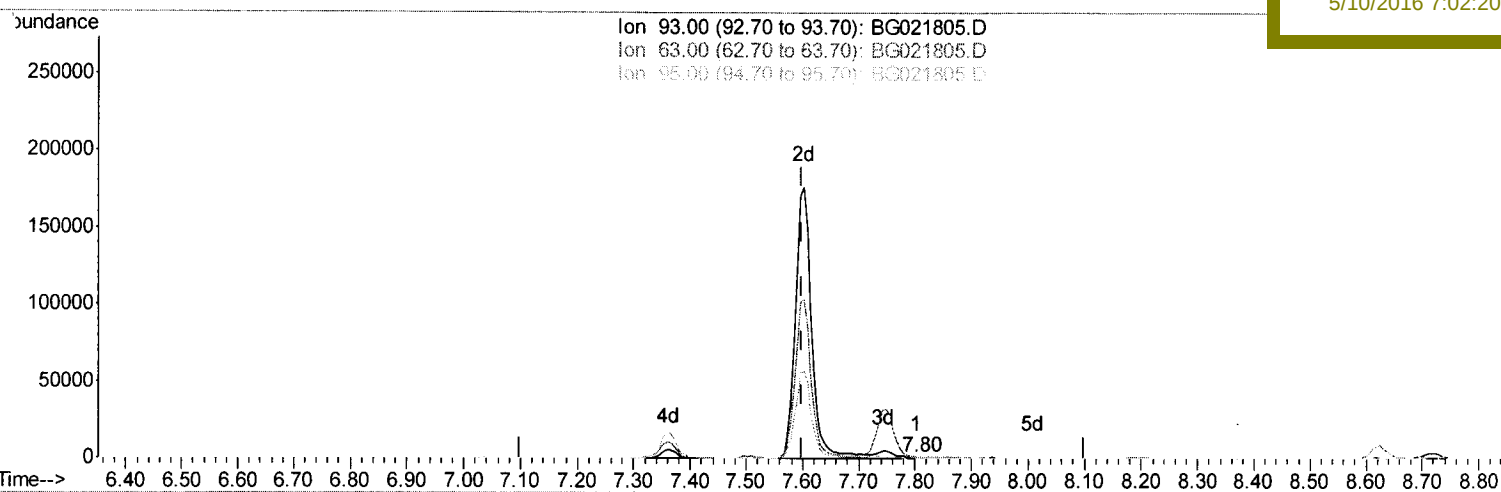
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
Data File : BG021805.D
Acq On : 9 May 2016 12:35
Operator : UM/SJ
Sample : SSTD08011
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 13:42:35 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 09 12:51:39 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTD08011

Manual Integrations
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(8) Bis(2-Chloroethyl)ether

7.802min (+0.203) 0.09ng/ul

response 433

Ion	Exp%	Act%
93.00	100	100
63.00	88.00	100.00
95.00	35.60	29.23
0.00	0.00	0.00

Quantitation Report (Qedit)

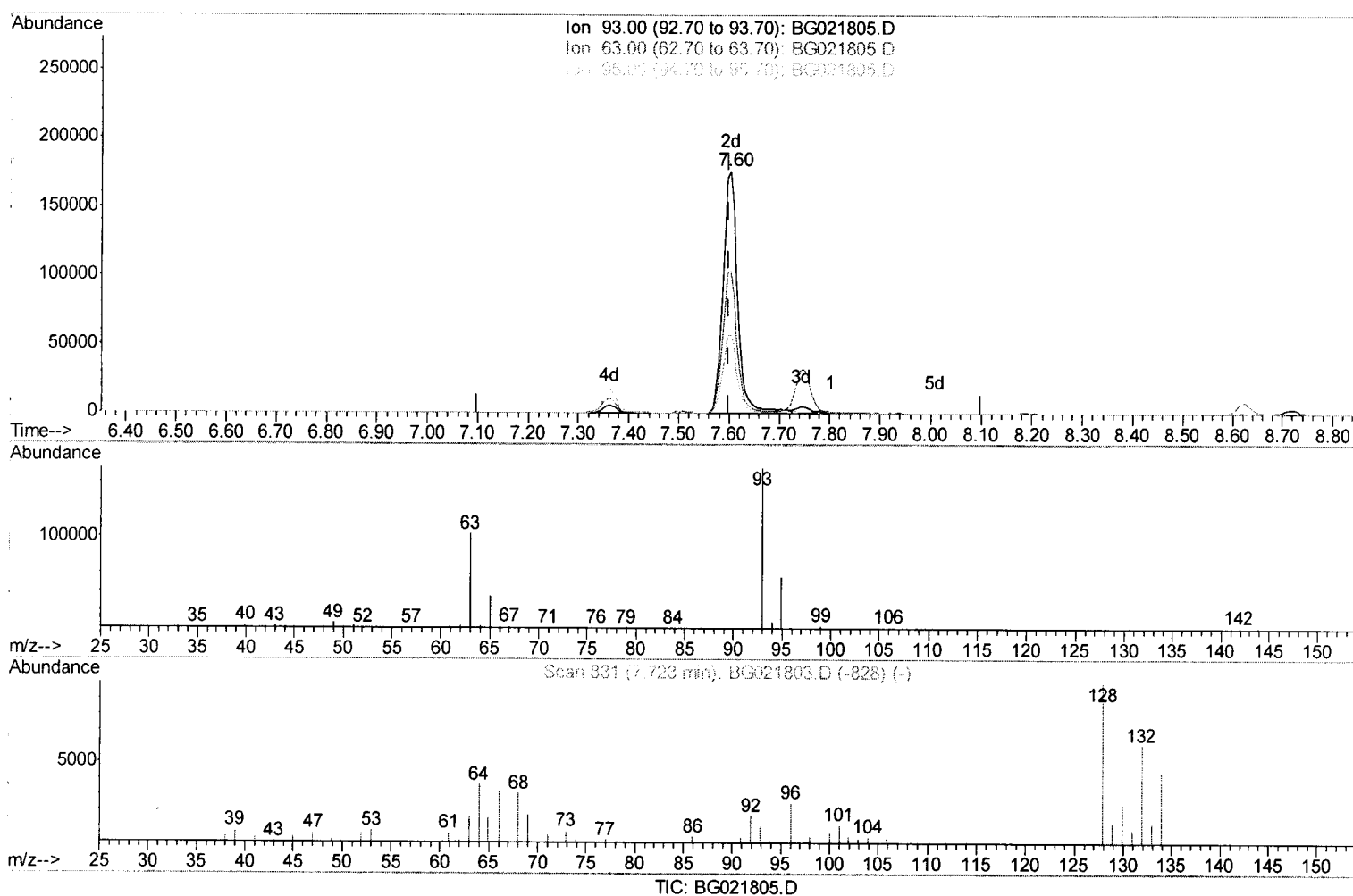
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
 Data File : BG021805.D
 Acq On : 9 May 2016 12:35
 Operator : UM/SJ
 Sample : SSTD08011
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTD08011

Manual Integrations
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Quant Time: May 09 13:42:35 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 09 12:51:39 2016
 Response via : Initial Calibration



(8) Bis(2-Chloroethyl)ether

7.602min (+0.003) 70.08ng/ul m

response 356901

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Ion	Exp%	Act%
93.00	100	100
63.00	88.00	58.74#
95.00	35.60	32.43
0.00	0.00	0.00

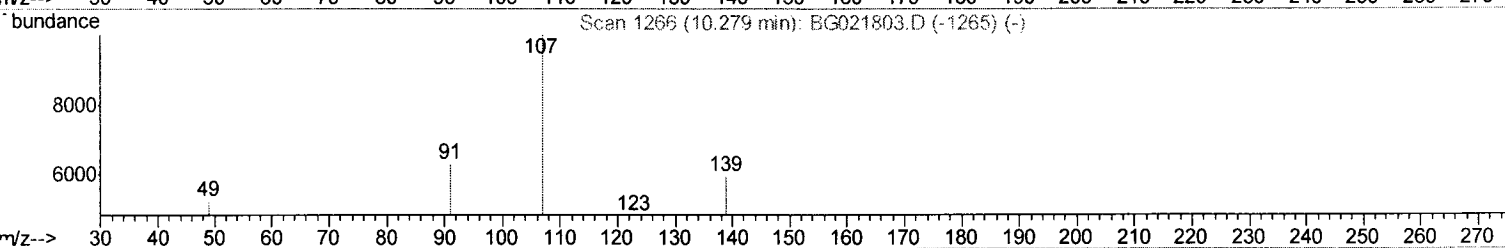
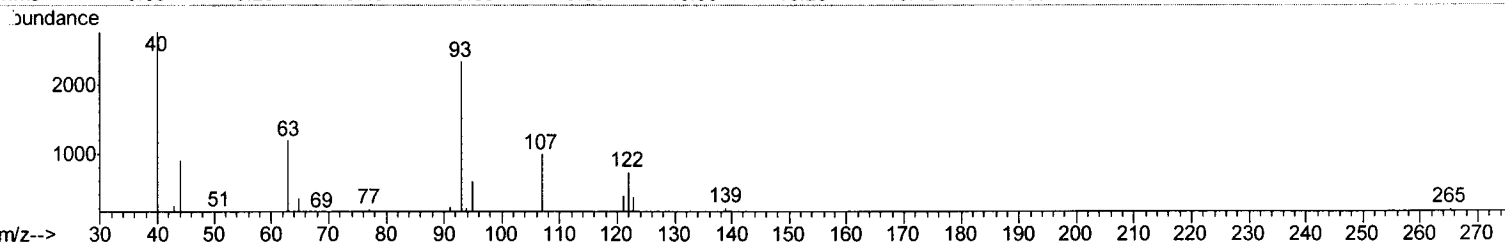
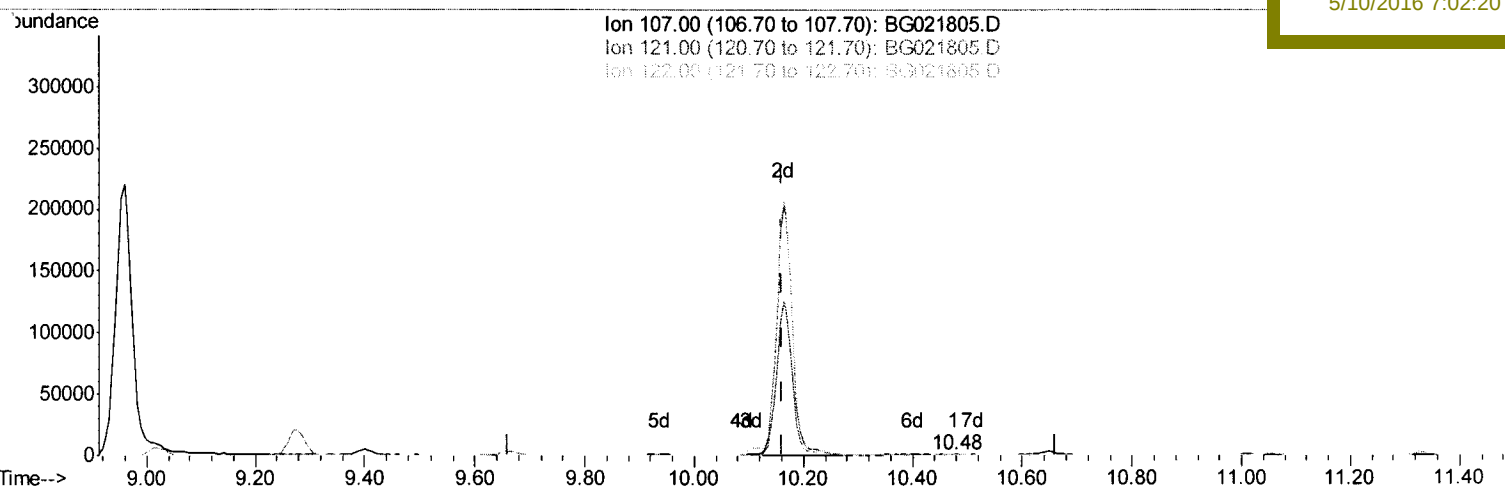
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
Data File : BG021805.D
Acq On : 9 May 2016 12:35
Operator : UM/SJ
Sample : SSTD08011
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 13:42:35 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 09 12:51:39 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTD08011

Manual Integrations
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TIC: BG021805.D

(24) 2,4-Dimethylphenol

10.475min (+0.314) 0.08ng/ul

response 609

Ion	Exp%	Act%
107.00	100	100
121.00	41.50	38.70
122.00	71.80	73.96
0.00	0.00	0.00

Quantitation Report (Qedit)

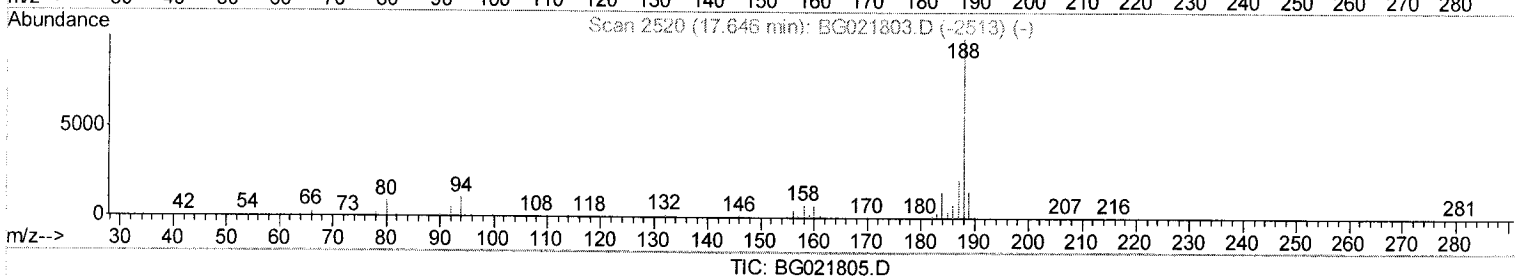
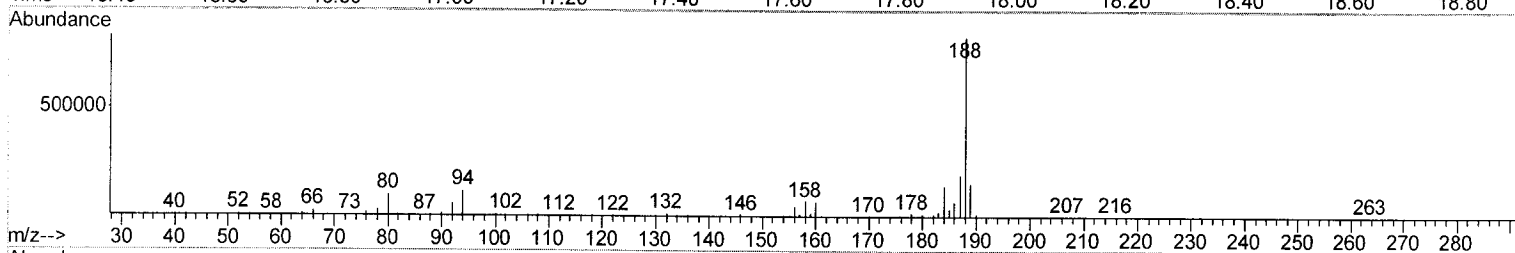
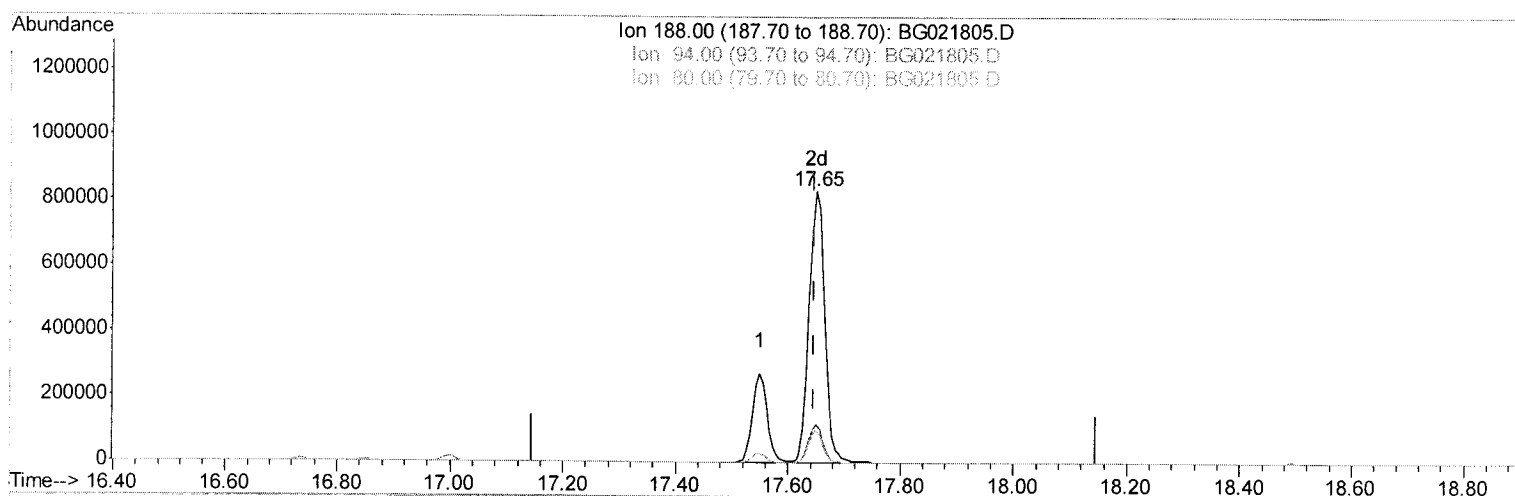
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
 Data File : BG021805.D
 Acq On : 9 May 2016 12:35
 Operator : UM/SJ
 Sample : SSTD08011
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTD08011

Manual Integrations
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Quant Time: May 09 13:42:35 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 09 12:51:39 2016
 Response via : Initial Calibration



(71) Anthracene-d10 (S)

17.649min (+0.003) 66.86ng/ul m

response 1602294

Ion	Exp%	Act%
188.00	100	100
94.00	10.70	14.02#
80.00	10.80	11.66
0.00	0.00	0.00

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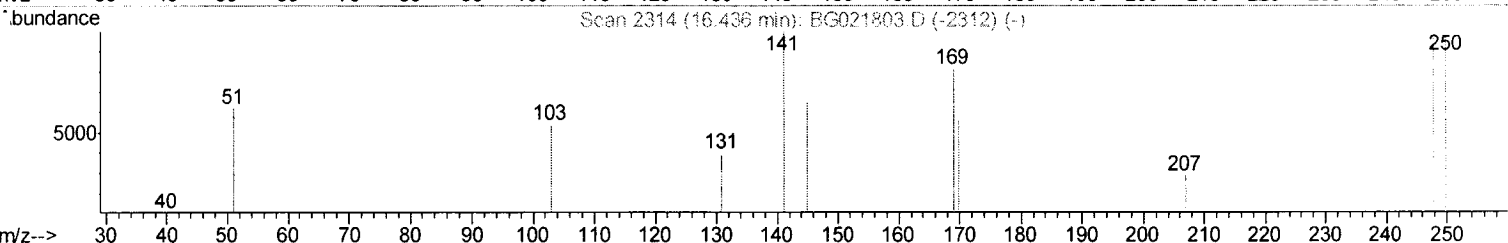
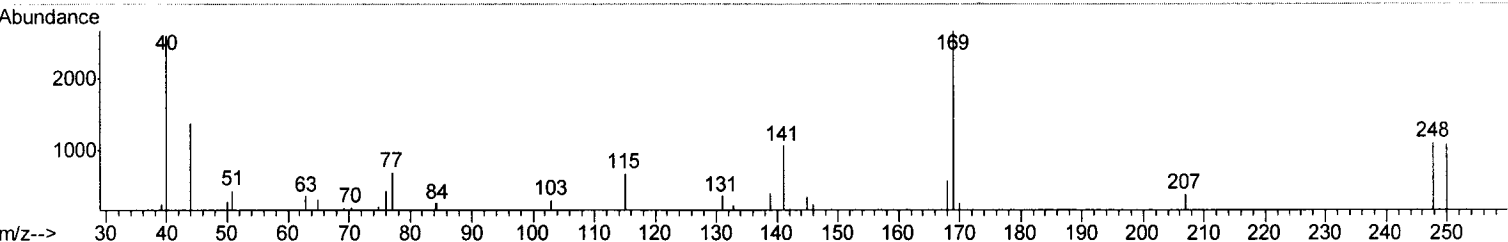
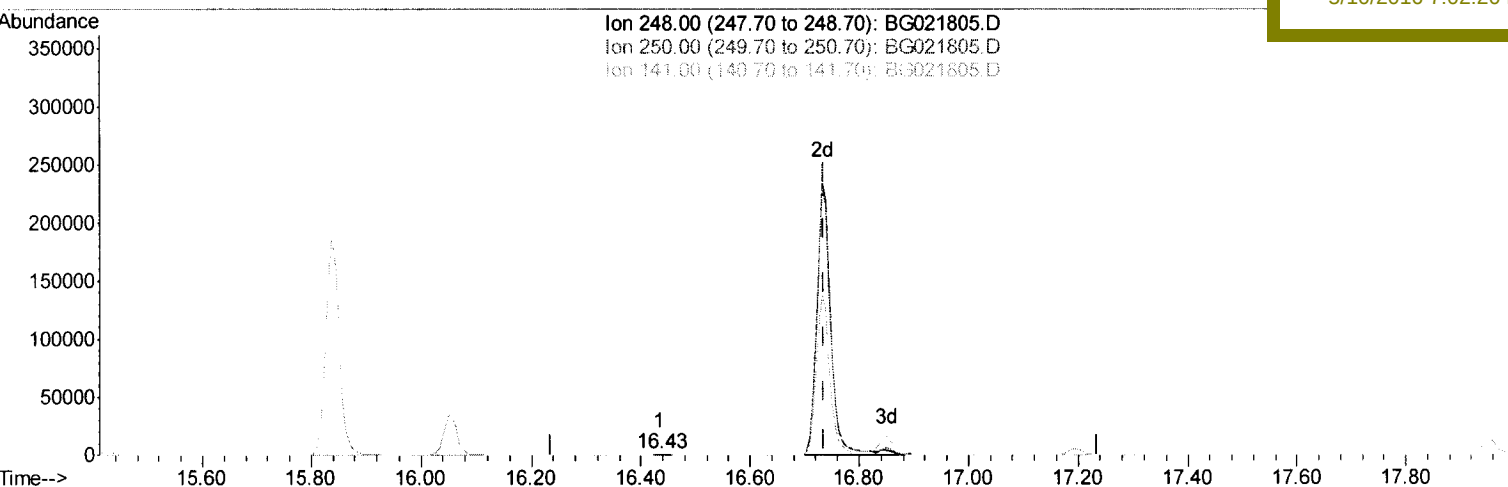
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
Data File : BG021805.D
Acq On : 9 May 2016 12:35
Operator : UM/SJ
Sample : SSTD08011
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTD08011

Manual Integrations
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Quant Time: May 09 13:42:35 2016
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon May 09 12:51:39 2016
Response via : Initial Calibration



TIC: BG021805.D

(66) 4-Bromophenyl-phenylether

16.433min (-0.302) 0.39ng/ul

response 2215

Ion	Exp%	Act%
248.00	100	100
250.00	99.30	98.55
141.00	95.70	96.55
0.00	0.00	0.00

Quantitation Report (Qedit)

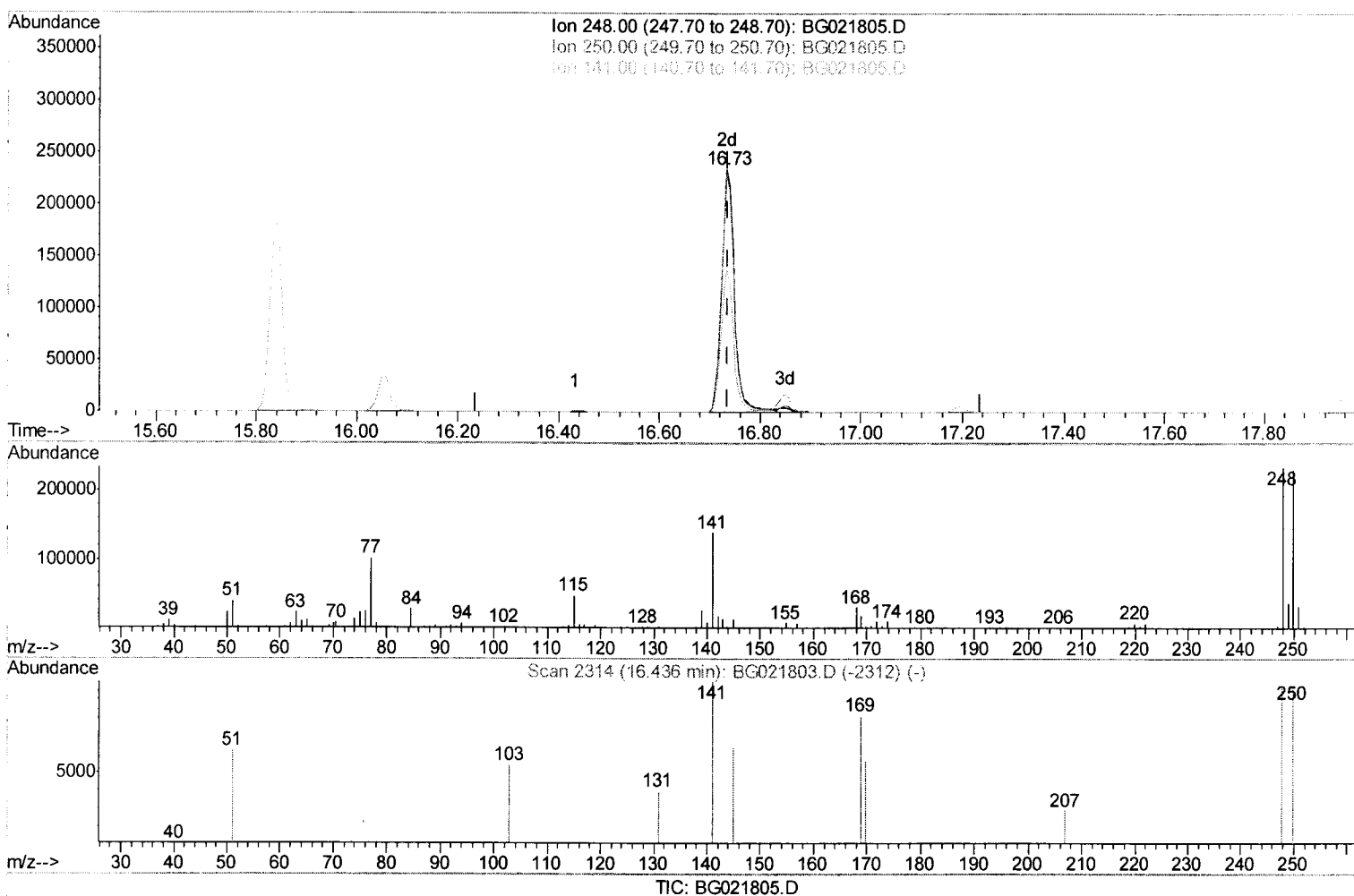
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
 Data File : BG021805.D
 Acq On : 9 May 2016 12:35
 Operator : UM/SJ
 Sample : SSTD08011
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTD08011

Manual Integrations
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 5/10/2016 7:02:20 PM

Quant Time: May 09 13:42:35 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 09 12:51:39 2016
 Response via : Initial Calibration



(66) 4-Bromophenyl-phenylether

16.733min (-0.003) 71.97ng/ul m

response 411122

Ion	Exp%	Act%
248.00	100	100
250.00	99.30	98.49
141.00	95.70	59.33#
0.00	0.00	0.00

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Quantitation Report (Qedit)

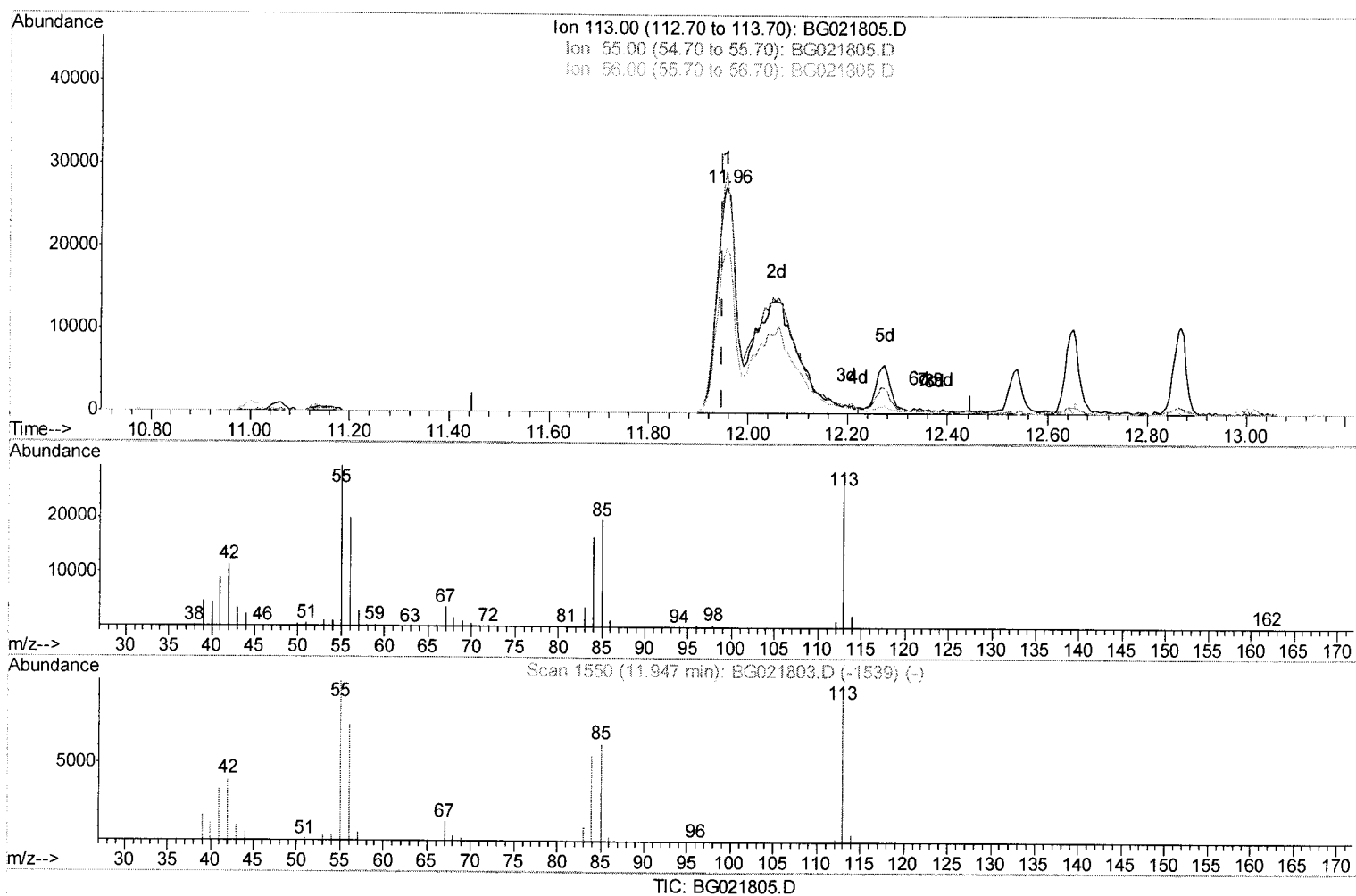
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
 Data File : BG021805.D
 Acq On : 9 May 2016 12:35
 Operator : UM/SJ
 Sample : SSTD08011
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTD08011

Manual Integrations
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Quant Time: May 09 13:42:35 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 09 12:51:39 2016
 Response via : Initial Calibration



(32) Caprolactam

11.956min (+0.009) 71.16ng/ul m

response 155031

Ion	Exp%	Act%
113.00	100	100
55.00	194.40	107.18#
56.00	132.10	73.02#
0.00	0.00	0.00

U.M
 05/16/16

Quantitation Report (Qedit)

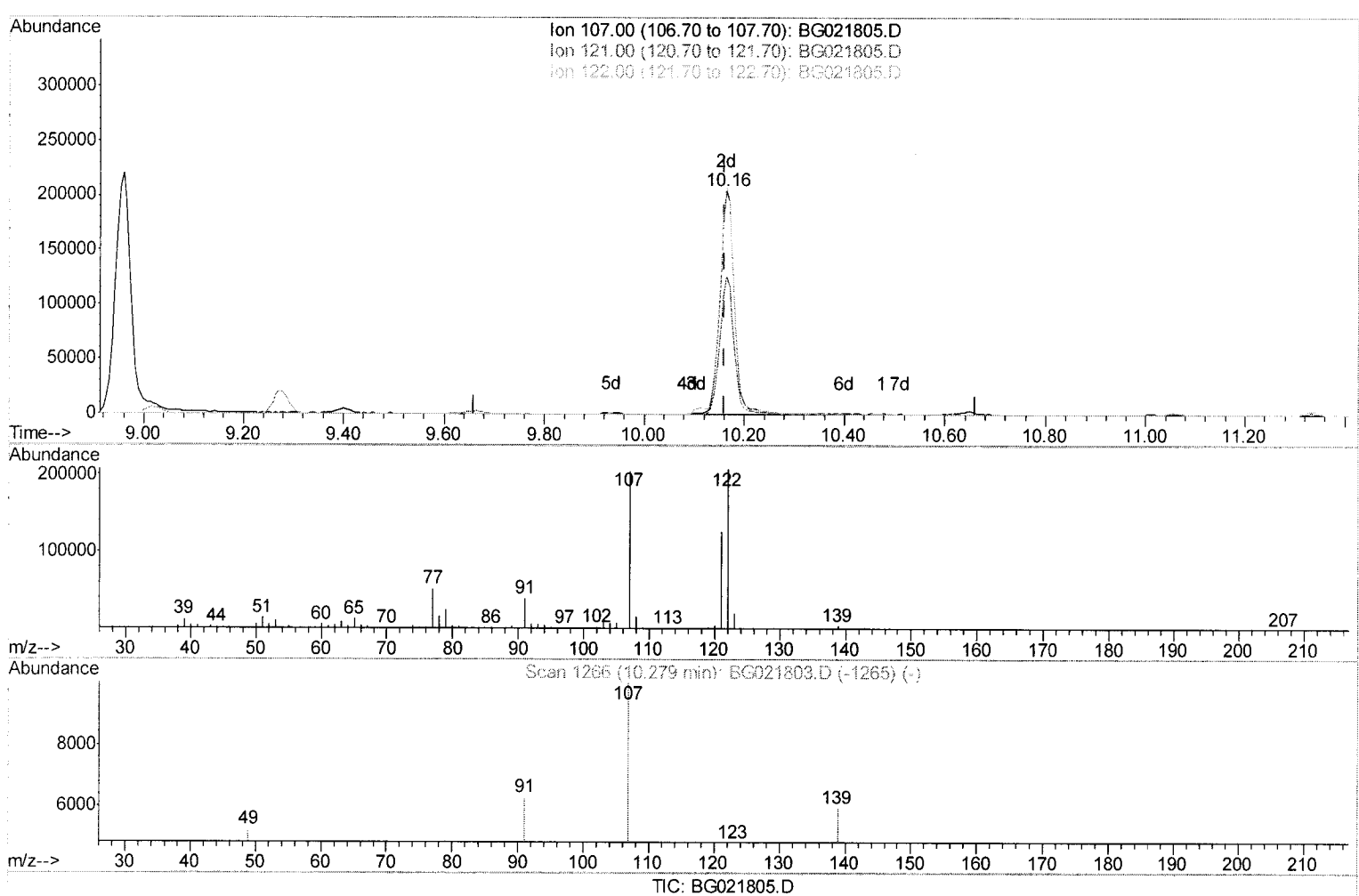
Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
 Data File : BG021805.D
 Acq On : 9 May 2016 12:35
 Operator : UM/SJ
 Sample : SSTD08011
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
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Quant Time: May 09 13:42:35 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 09 12:51:39 2016
 Response via : Initial Calibration



(24) 2,4-Dimethylphenol

10.164min (+0.003) 53.64ng/ul m

response 417610

Ion	Exp%	Act%
107.00	100	100
121.00	41.50	61.59#
122.00	71.80	101.28#
0.00	0.00	0.00

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 05/16/16

Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
 Data File : BG021805.D
 Acq On : 9 May 2016 12:35
 Operator : UM/SJ
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Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.19	152	70387	20.00	ng/ul	0.00
18) Naphthalene-d8	11.00	136	364398	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.81	164	225572	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.55	188	489036	20.00	ng/ul	0.00
76) Chrysene-d12	21.83	240	506947	20.00	ng/ul	0.00
84) Perylene-d12	25.18	264	469068	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.57	96	40385	25.74	ng/uL	0.00
5) Phenol-d5	7.33	99	472069	70.94	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.51	67	215713	54.72	ng/ul	0.00
9) 2-Chlorophenol-d4	7.71	132	390645	77.30	ng/ul	0.00
13) 4-Methylphenol-d8	8.89	113	400729	70.31	ng/ul	0.00
19) Nitrobenzene-d5	9.36	128	216702	79.26	ng/ul	0.00
22) 2-Nitrophenol-d4	10.08	143	169264	54.16	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.62	165	411964	73.75	ng/ul	0.00
29) 4-Chloroaniline-d4	11.14	131	351670	48.15	ng/ul	0.00
44) Dimethylphthalate-d6	14.21	166	1209948	64.42	ng/ul	0.00
47) Acenaphthylene-d8	14.51	160	1604556	69.31	ng/ul	0.00
52) 4-Nitrophenol-d4	15.01	143	240291	80.04	ng/ul	0.00
58) Fluorene-d10	15.80	176	1152396	68.05	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.92	200	142238	44.03	ng/ul	0.01
71) Anthracene-d10	17.65	188	1602294m	66.86	ng/ul	0.00
77) Pyrene-d10	19.92	212	1656672	70.08	ng/ul	0.00
88) Benzo(a)pyrene-d12	24.95	264	1727087	79.78	ng/ul	0.01

Target Compounds

						Ovalue
2) 1,4-Dioxane	3.61	88	72414	34.18	ng/uL#	67
4) Benzaldehyde	7.34	77	49918m	12.31	ng/ul	
6) Phenol	7.36	94	478345	67.99	ng/ul#	72
8) Bis(2-Chloroethyl)ether	7.60	93	356901m	70.08	ng/ul	
10) 2-Chlorophenol	7.75	128	391475	75.37	ng/ul#	76
11) 2-Methylphenol	8.62	108	387645	71.60	ng/ul	97
12) 2,2'-oxybis(1-Chloropropan	8.72	45	307028	49.98	ng/ul#	85
14) Acetophenone	9.02	105	579057	62.27	ng/ul#	67
15) N-Nitroso-di-n-propylamine	9.01	70	260429	50.52	ng/ul#	73
16) 4-Methylphenol	8.96	108	413722	67.36	ng/ul	87
17) Hexachloroethane	9.27	117	136069	62.43	ng/ul	99
20) Nitrobenzene	9.40	77	367251	47.56	ng/ul#	66
21) Isophorone	9.93	82	802522	53.91	ng/ul#	84
23) 2-Nitrophenol	10.11	139	198689	57.60	ng/ul#	56
24) 2,4-Dimethylphenol	10.16	107	417610m	53.64	ng/ul	
25) Bis(2-Chloroethoxy)methane	10.40	93	508283	65.55	ng/ul#	94
27) 2,4-Dichlorophenol	10.65	162	404479	69.73	ng/ul	92
28) Naphthalene	11.06	128	1326974	68.68	ng/ul#	96
30) 4-Chloroaniline	11.16	127	354552	46.26	ng/ul	94
31) Hexachlorobutadiene	11.33	225	220104	51.52	ng/ul	98
32) Caprolactam	11.96	113	155031m	71.16	ng/ul	
33) 4-Chloro-3-methylphenol	12.27	107	393226	55.51	ng/ul#	63
34) 2-Methylnaphthalene	12.65	142	1014373	70.75	ng/ul	95

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA G\DATA\BG050916\
 Data File : BG021805.D
 Acq On : 9 May 2016 12:35
 Operator : UM/SJ
 Sample : SSTD08011
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 SSTD08011

Manual Integrations
 APPROVED

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 5/10/2016 7:02:20 PM

Quant Time: May 09 13:47:02 2016
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon May 09 12:51:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) 1-Methylnaphthalene	12.87	142	979347	70.39	ng/ul#	98
37) 1,2,4,5-Tetrachlorobenzene	13.01	216	499402	63.25	ng/ul#	90
38) Hexachlorocyclopentadiene	12.98	237	274604	94.95	ng/ul#	95
39) 2,4,6-Trichlorophenol	13.24	196	309475	66.67	ng/ul	96
40) 2,4,5-Trichlorophenol	13.32	196	350281	69.14	ng/ul	95
41) 1,1'-Biphenyl	13.64	154	1288297	69.82	ng/ul	97
42) 2-Chloronaphthalene	13.69	162	997201	69.09	ng/ul	95
43) 2-Nitroaniline	13.89	65	198386	39.41	ng/ul#	12
45) Dimethylphthalate	14.26	163	1189300	60.94	ng/ul	98
46) 2,6-Dinitrotoluene	14.38	165	284044	71.33	ng/ul#	63
48) Acenaphthylene	14.54	152	1616609	70.48	ng/ul	94
49) 3-Nitroaniline	14.72	138	296830	80.57	ng/ul#	63
50) Acenaphthene	14.87	153	1145822	72.42	ng/ul	95
51) 2,4-Dinitrophenol	14.92	184	80096	39.92	ng/ul#	48
53) 4-Nitrophenol	15.02	109	110606	35.51	ng/ul#	36
54) Dibenzofuran	15.21	168	1473487	66.48	ng/ul	89
55) 2,4-Dinitrotoluene	15.16	165	384275	65.82	ng/ul#	55
56) 2,3,4,6-Tetrachlorophenol	15.43	232	288222	77.82	ng/ul#	87
57) Diethylphthalate	15.62	149	1190739	57.09	ng/ul#	93
59) Fluorene	15.85	166	1257235	64.88	ng/ul	97
60) 4-Chlorophenyl-phenylether	15.84	204	630737	61.97	ng/ul	88
61) 4-Nitroaniline	15.89	138	336261	87.09	ng/ul#	47
64) 4,6-Dinitro-2-methylphenol	15.93	198	152573	44.72	ng/ul#	75
65) N-Nitrosodiphenylamine	16.05	169	1102774	72.79	ng/ul	88
66) 4-Bromophenyl-phenylether	16.73	248	411122m	71.97	ng/ul	
67) Hexachlorobenzene	16.85	284	459660	76.29	ng/ul#	82
68) Atrazine	17.00	200	342540	56.06	ng/ul	96
69) Pentachlorophenol	17.20	266	220304	138.26	ng/ul	95
70) Phenanthrene	17.59	178	1846131	66.66	ng/ul#	88
72) Anthracene	17.68	178	1856230	65.87	ng/ul#	90
73) Carbazole	17.95	167	1781409	73.07	ng/ul	94
74) Di-n-butylphthalate	18.50	149	1848796	58.78	ng/ul#	93
75) Fluoranthene	19.59	202	2023536	60.54	ng/ul#	87
78) Pvrene	19.95	202	1951537	64.61	ng/ul#	83
79) Butylbenzylphthalate	20.83	149	773634	60.64	ng/ul#	81
80) 3,3'-Dichlorobenzidine	21.73	252	741394	70.52	ng/ul	99
81) Benzo(a)anthracene	21.82	228	1991872	65.09	ng/ul#	87
82) Bis(2-ethylhexyl)phthalate	21.70	149	1199257	64.27	ng/ul	91
83) Chrysene	21.89	228	1884756	65.03	ng/ul#	87
85) Di-n-octyl phthalate	22.96	149	1905712	59.85	ng/ul	100
86) Benzo(b)fluoranthene	24.11	252	2140557	71.04	ng/ul#	92
87) Benzo(k)fluoranthene	24.19	252	2040532	68.94	ng/ul#	90
89) Benzo(a)pyrene	25.03	252	2064979	70.60	ng/ul#	91
90) Indeno(1,2,3-cd)pyrene	29.02	276	2574257	77.44	ng/ul#	92
91) Dibenzo(a,h)anthracene	29.09	278	2119592	74.95	ng/ul#	95
92) Benzo(a,h,i)perylene	30.22	276	2075652	75.93	ng/ul#	91

U.M
 05/16/16

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