

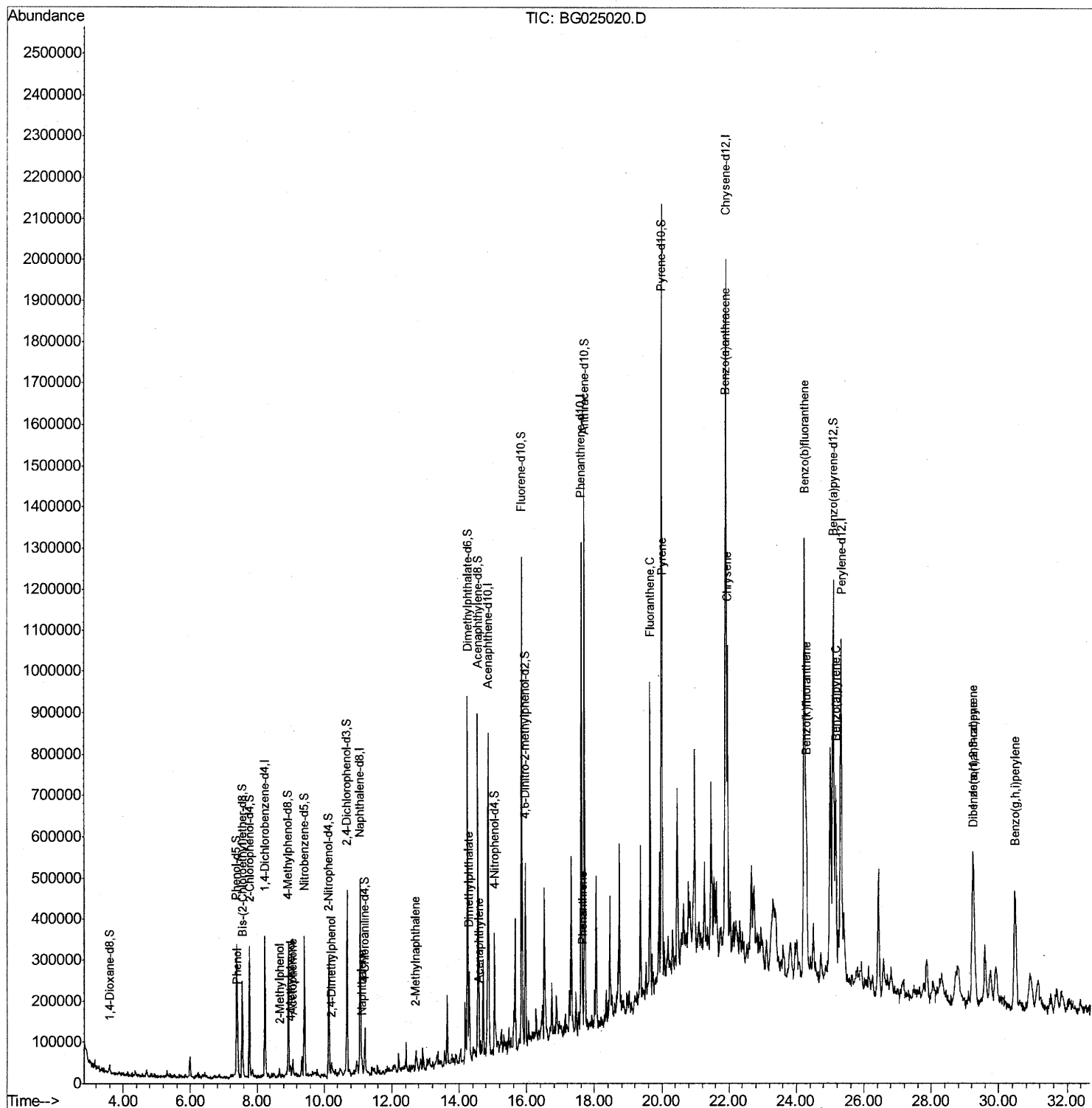
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
Client Sampled :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:48:14 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



Quantitation Report (Qedit)

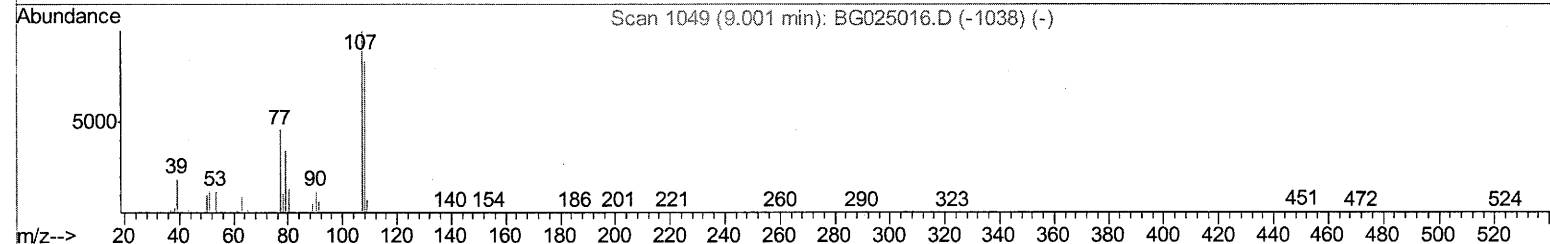
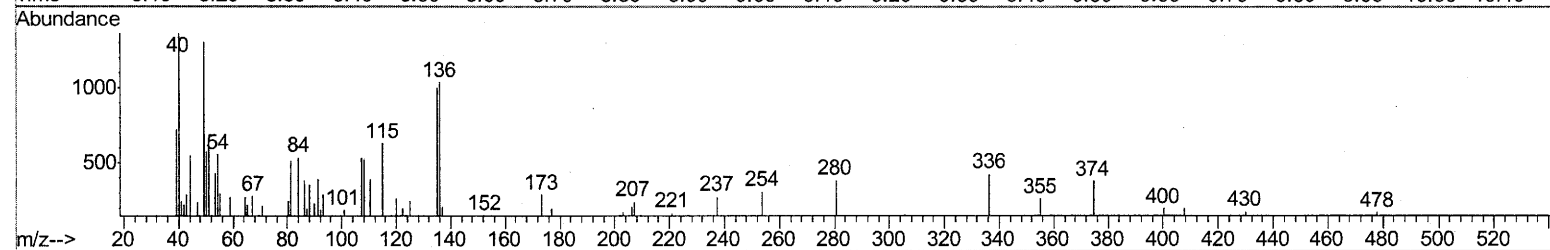
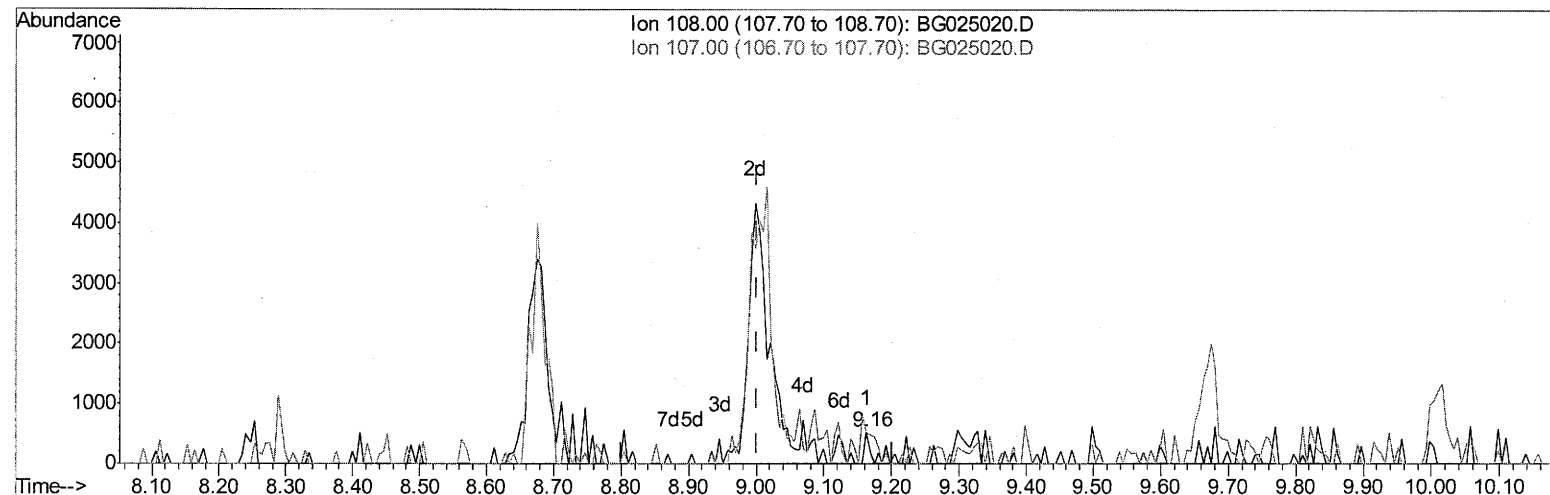
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
 Data File : BG025020.D
 Acq On : 8 Dec 2016 23:55
 Operator : UM/SJ
 Sample : H5863-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA7Y8

Manual Integrations
 APPROVED

sohil
 12/9/2016 3:41:25 PM

Quant Time: Dec 09 01:35:07 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 09 01:31:52 2016
 Response via : Initial Calibration



TIC: BG025020.D

(16) 4-Methylphenol

9.163min (+0.162) 0.04ng/ul

response 244

Ion	Exp%	Act%
108.00	100	100
107.00	114.60	102.10
0.00	0.00	0.00
0.00	0.00	0.00

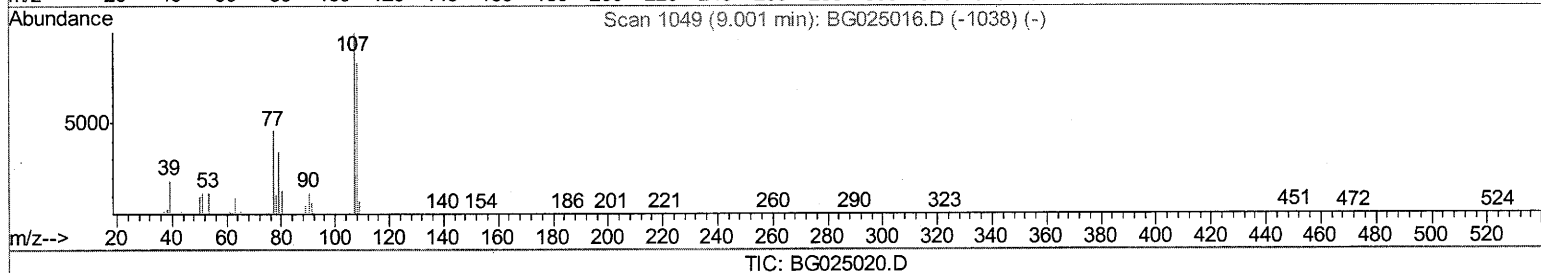
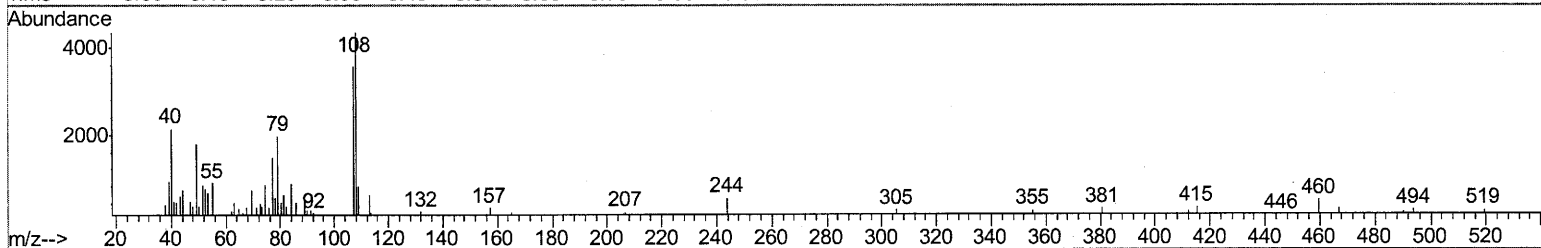
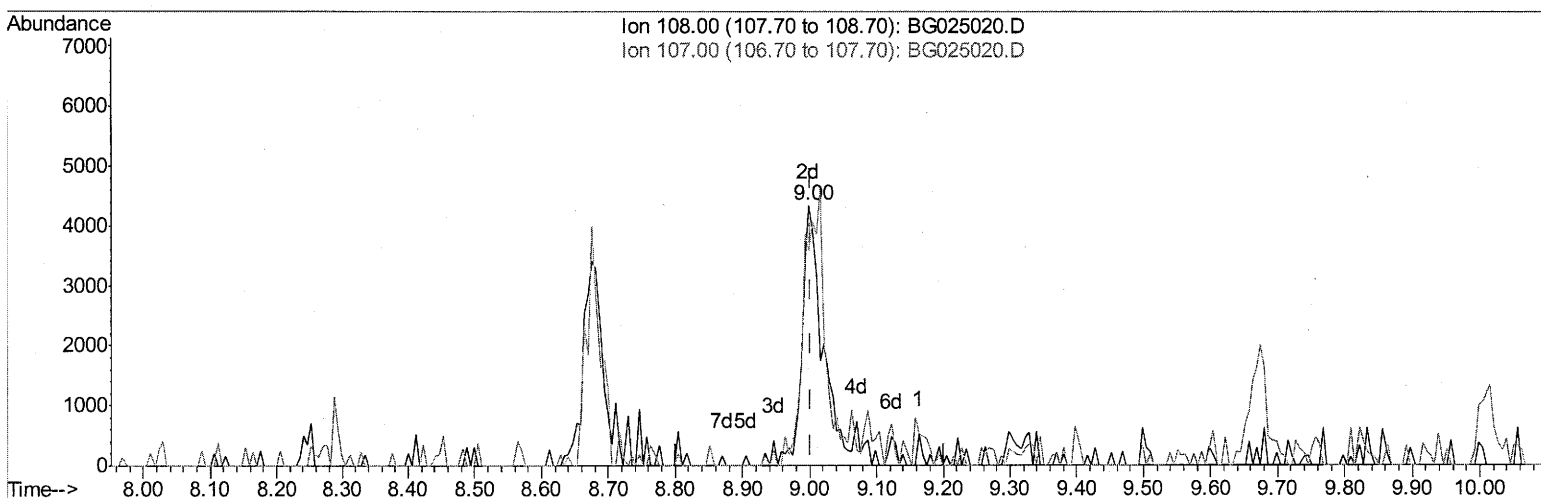
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
Client Sampled :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 01:35:07 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



(16) 4-Methylphenol

8.999min (-0.003) 1.43ng/ul m

response 9956

Ion	Exp%	Act%
108.00	100	100
107.00	114.60	82.46#
0.00	0.00	0.00
0.00	0.00	0.00

GM
12/09/16

Quantitation Report (Qedit)

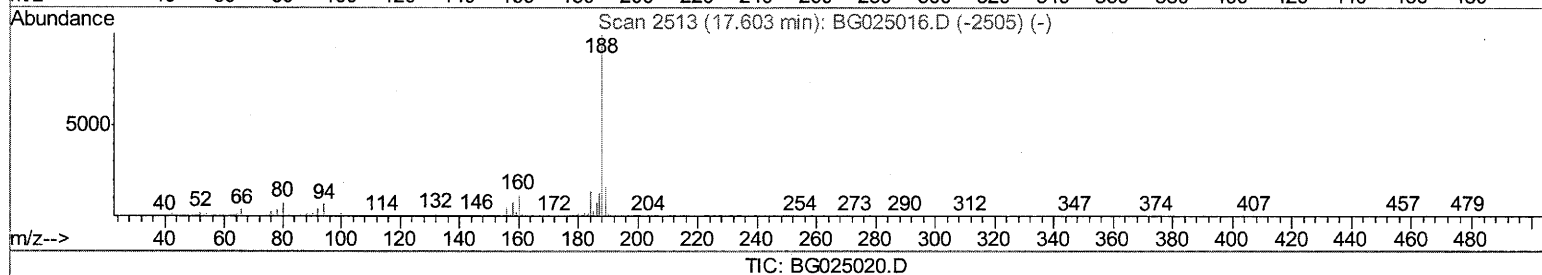
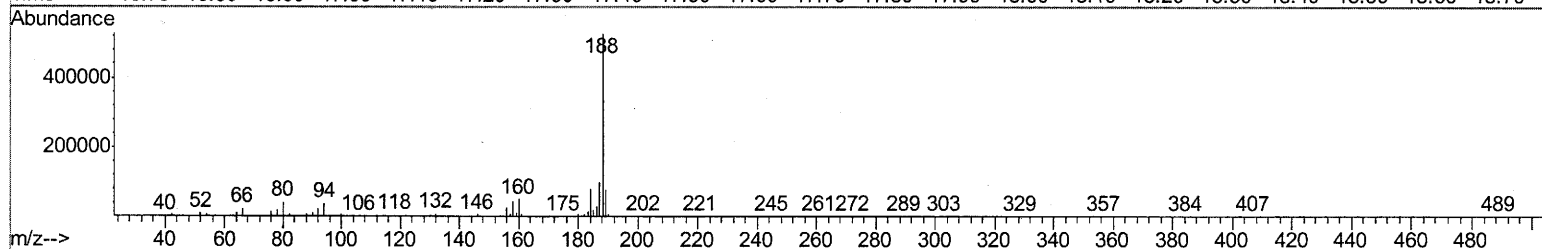
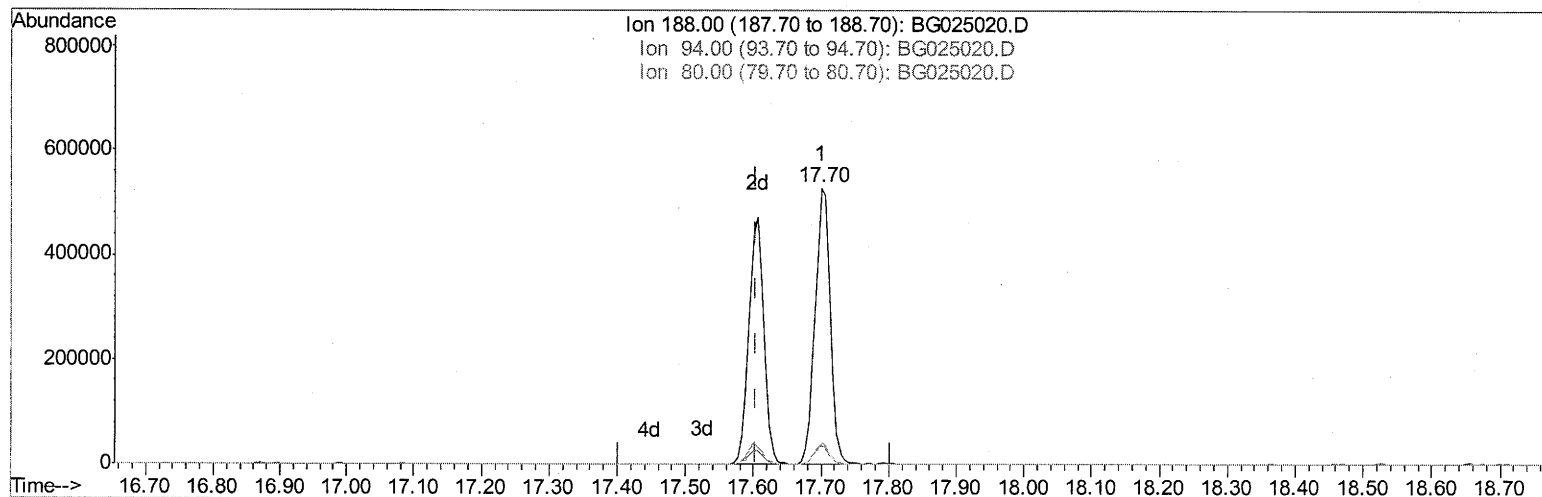
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DA7Y8

Manual Integrations
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sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 01:35:07 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



(61) Phenanthrene-d10 (I)

17.700min (+0.097) 20.00ng/ul

response 833564

Ion	Exp%	Act%
188.00	100	100
94.00	8.80	7.04
80.00	9.50	7.64
0.00	0.00	0.00

Quantitation Report (Qedit)

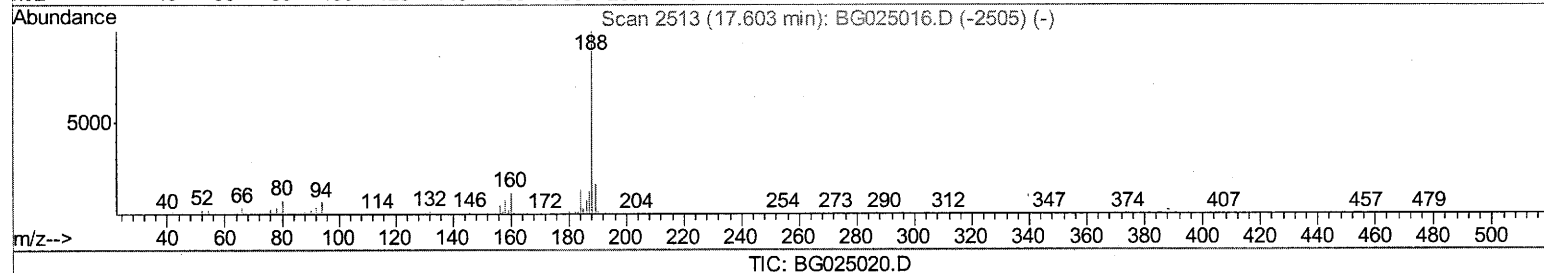
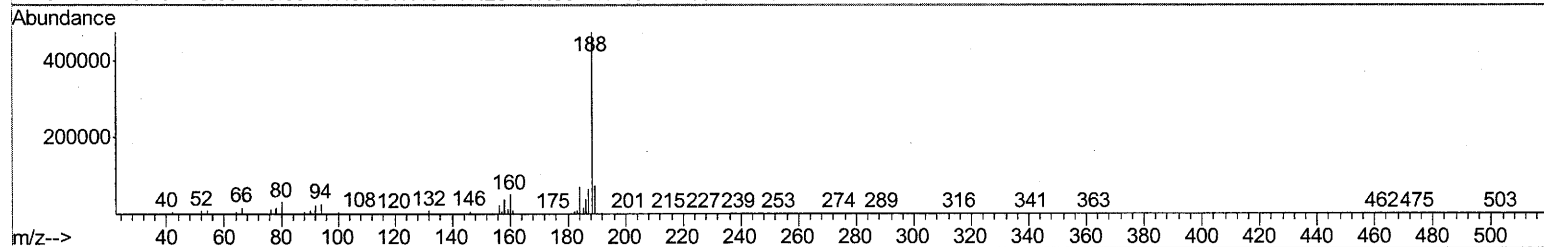
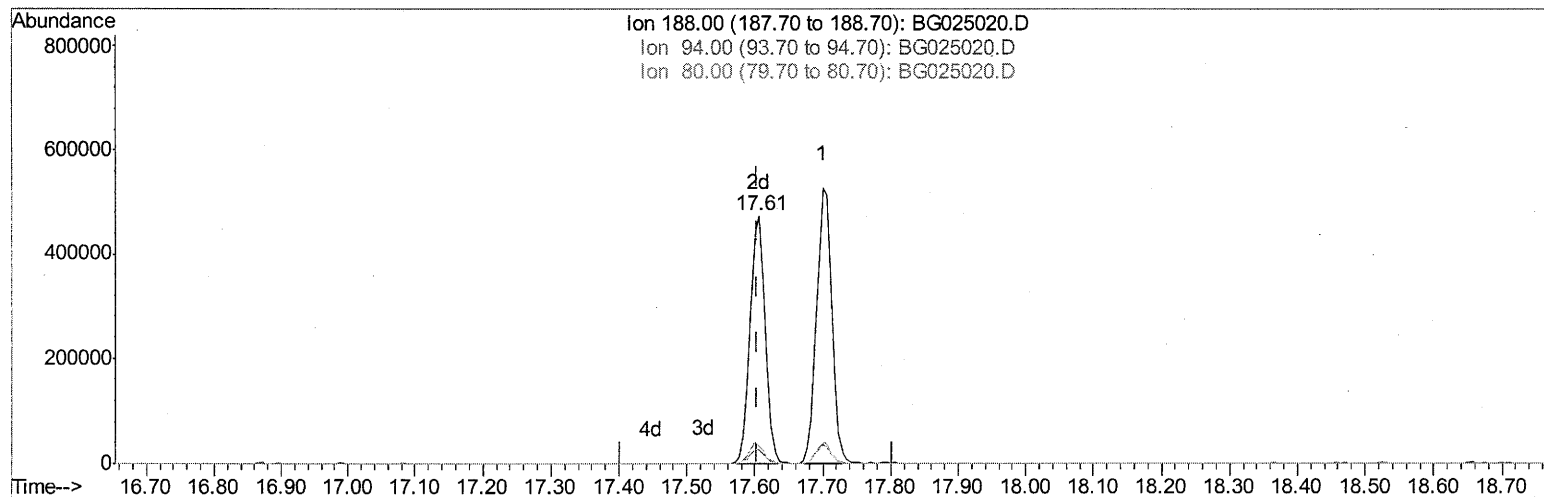
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
 Data File : BG025020.D
 Acq On : 8 Dec 2016 23:55
 Operator : UM/SJ
 Sample : H5863-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA7Y8

Manual Integrations
 APPROVED

sohil
 12/9/2016 3:41:25 PM

Quant Time: Dec 09 01:35:07 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 09 01:31:52 2016
 Response via : Initial Calibration



TIC: BG025020.D

(61) Phenanthrene-d10 (I)

17.606min (+0.003) 20.00ng/ul m

response 723820

UM
 12/09/16

Ion	Exp%	Act%
188.00	100	100
94.00	8.80	5.65#
80.00	9.50	6.64#
0.00	0.00	0.00

Quantitation Report (Qedit)

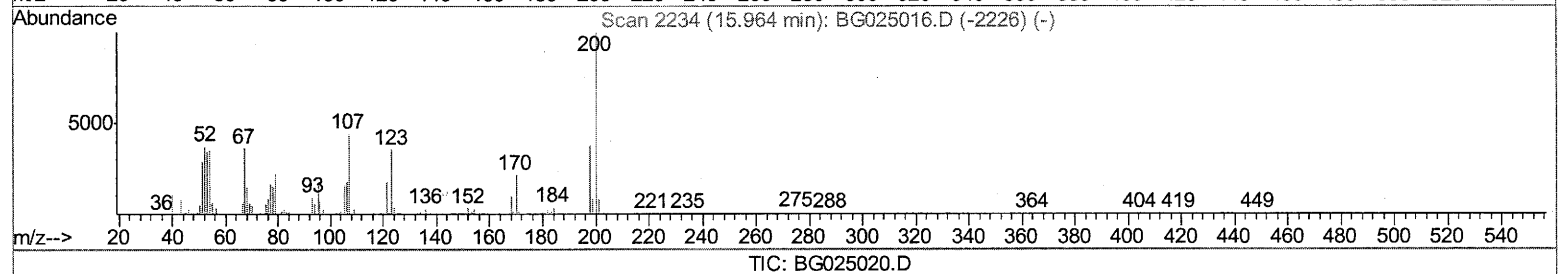
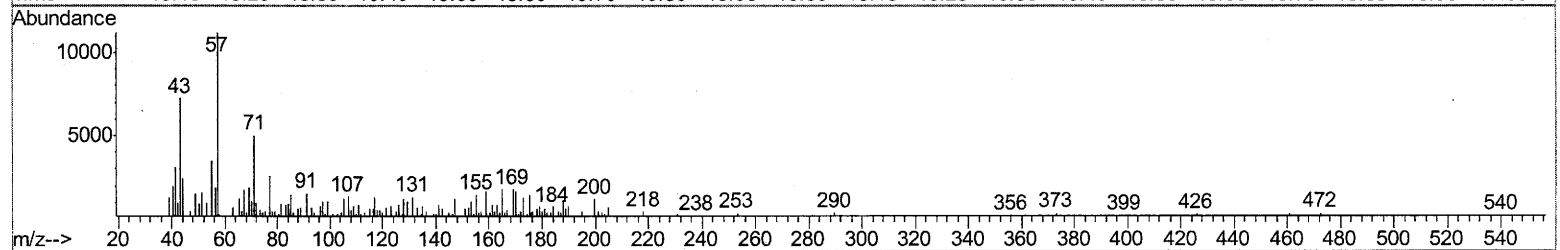
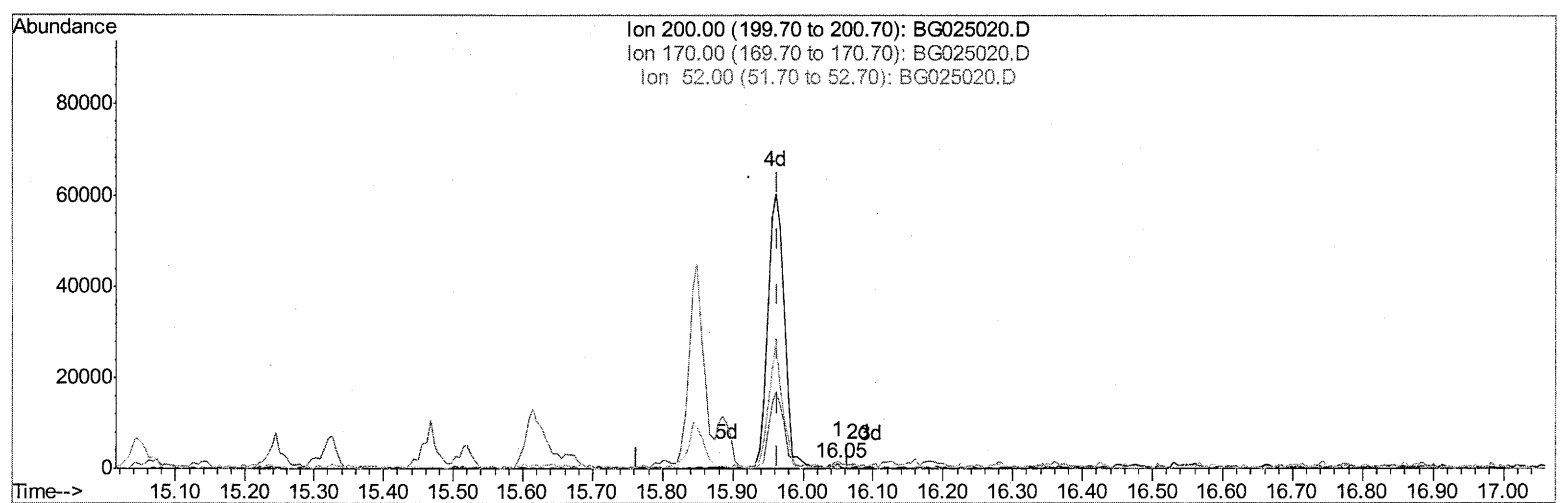
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
 Data File : BG025020.D
 Acq On : 8 Dec 2016 23:55
 Operator : UM/SJ
 Sample : H5863-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA7Y8

Manual Integrations
 APPROVED

sohil
 12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:42:43 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 09 01:31:52 2016
 Response via : Initial Calibration



(62) 4,6-Dinitro-2-methylphenol-d2 (S)

16.049min (+0.085) 0.21ng/ul

response 941

Ion	Exp%	Act%
200.00	100	100
170.00	23.20	141.19#
52.00	47.20	0.00#
0.00	0.00	0.00

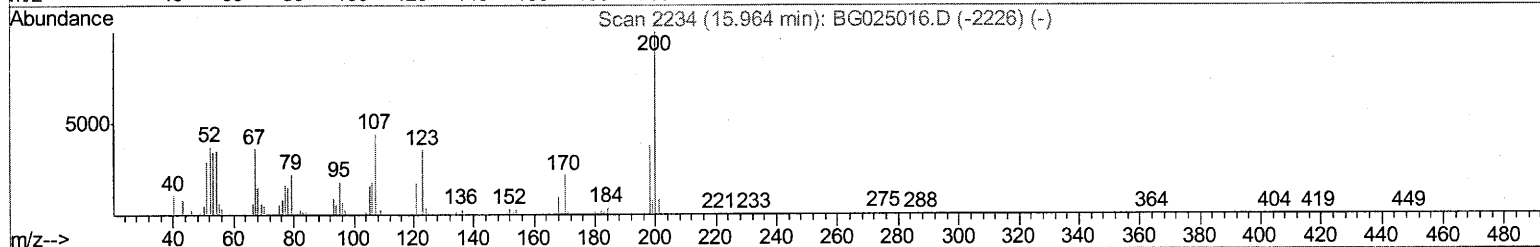
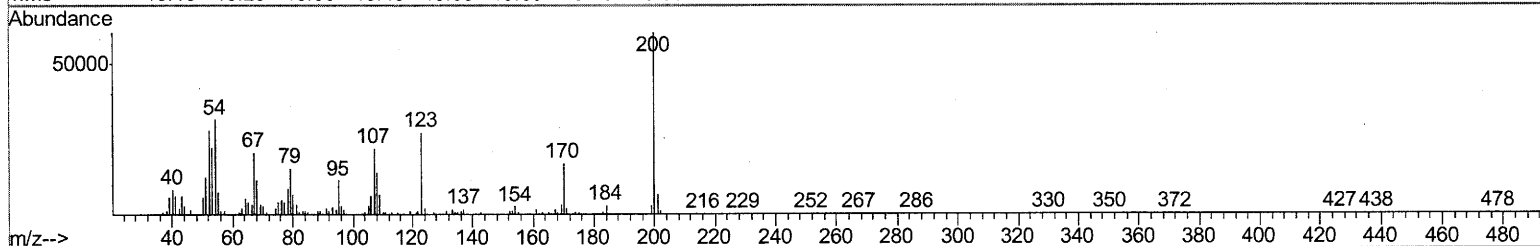
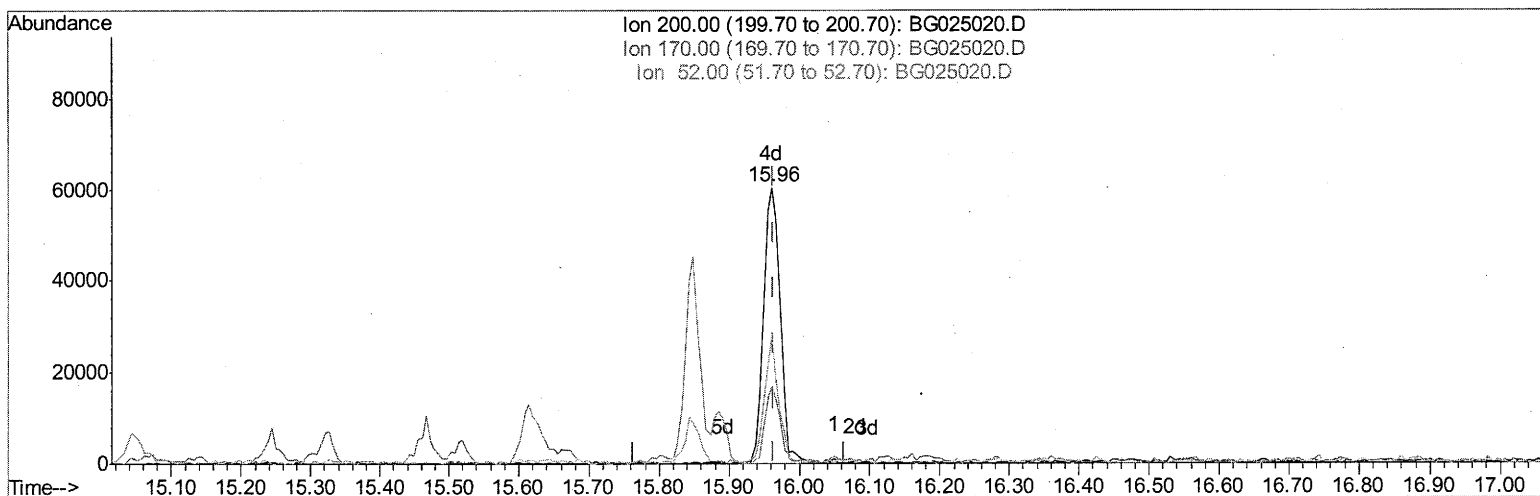
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampled :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:42:43 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



TIC: BG025020.D

(62) 4,6-Dinitro-2-methylphenol-d2 (S)

15.961min (-0.003) 22.09ng/ul m

response 98845

Ion	Exp%	Act%
200.00	100	100
170.00	23.20	28.32#
52.00	47.20	46.73
0.00	0.00	0.00

UM
12/09/16

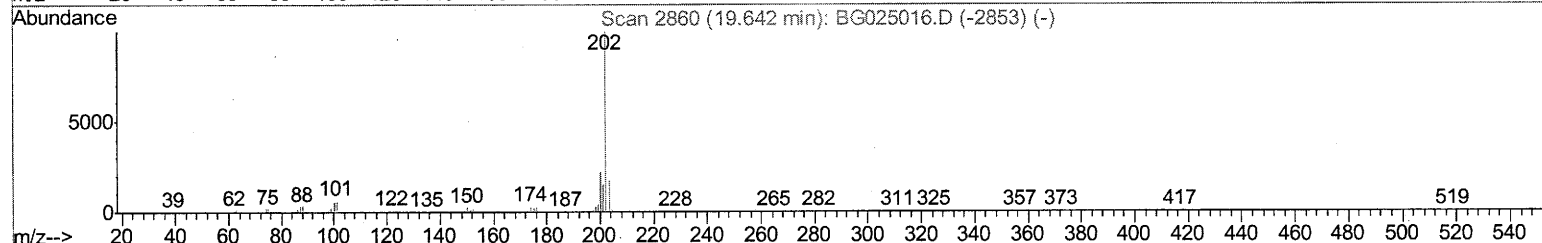
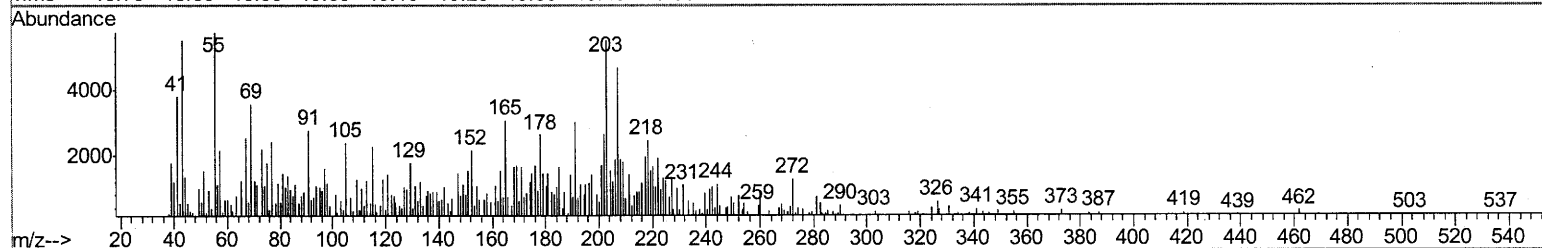
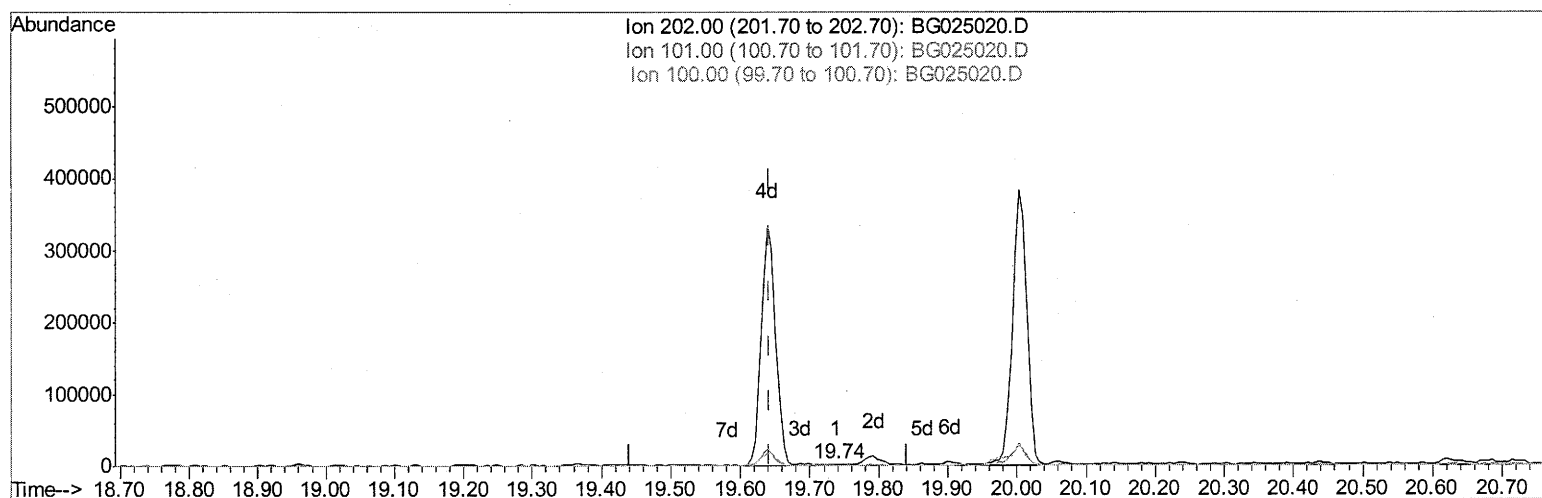
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampled :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:43:17 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



TIC: BG025020.D

(74) Fluoranthene (C)

19.739min (+0.097) 0.03ng/ul

response 1139

Ion	Exp%	Act%
202.00	100	100
101.00	7.70	30.03#
100.00	6.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

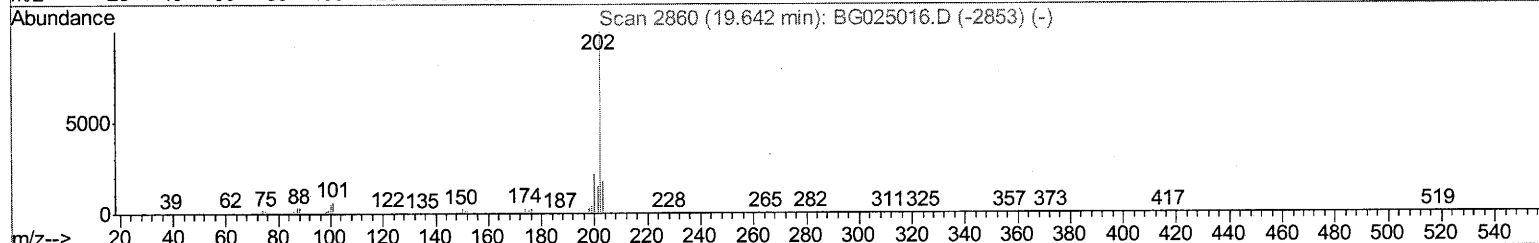
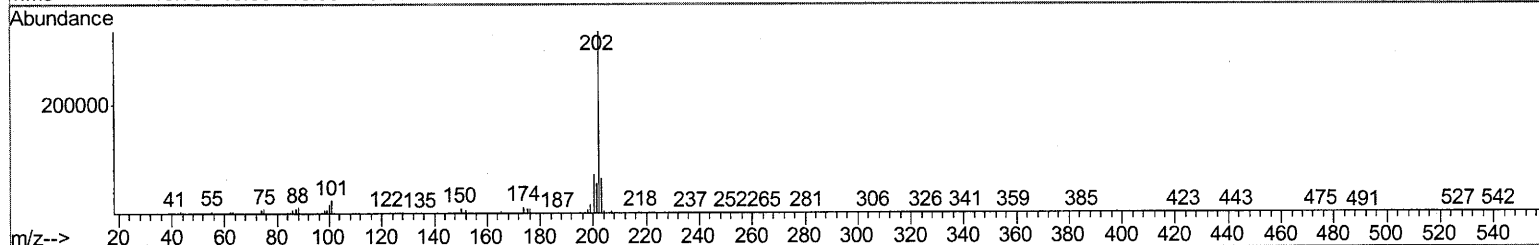
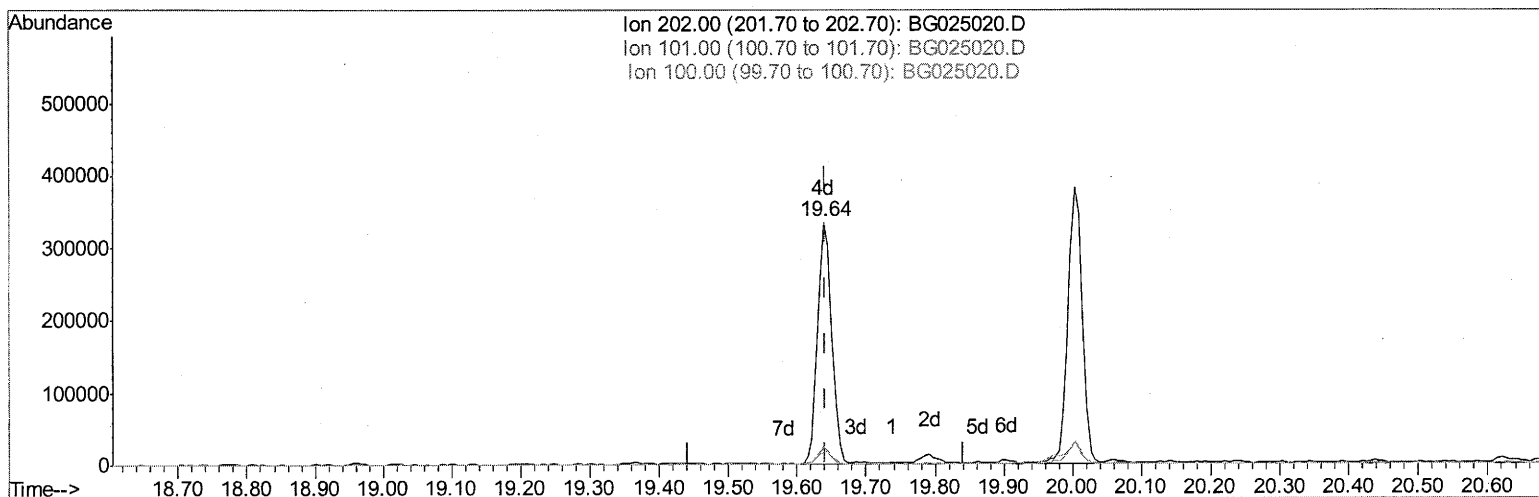
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
 Data File : BG025020.D
 Acq On : 8 Dec 2016 23:55
 Operator : UM/SJ
 Sample : H5863-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 Client Sample ID :
 DA7Y8

Manual Integrations
 APPROVED

sohil
 12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:43:17 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 09 01:31:52 2016
 Response via : Initial Calibration



(74) Fluoranthene (C)

19.639min (-0.003) 11.74ng/ul m

response 482001

Ion	Exp%	Act%
202.00	100	100
101.00	7.70	7.31
100.00	6.50	5.14#
0.00	0.00	0.00

UM
 12/09/16

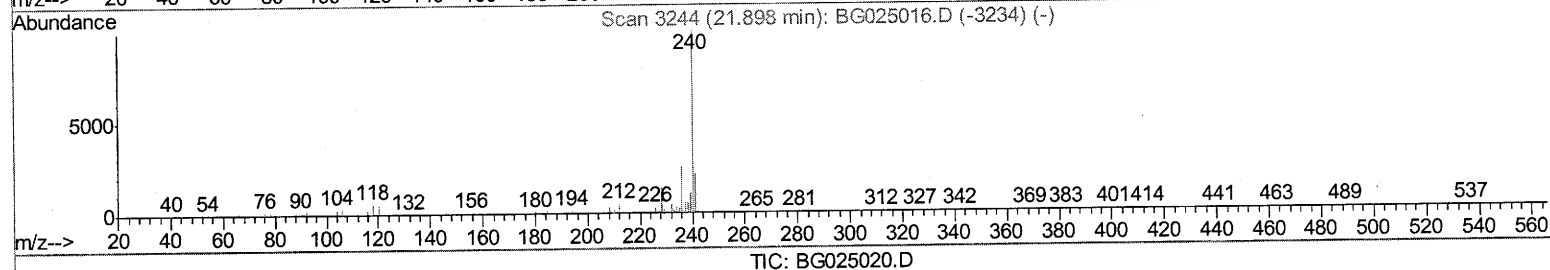
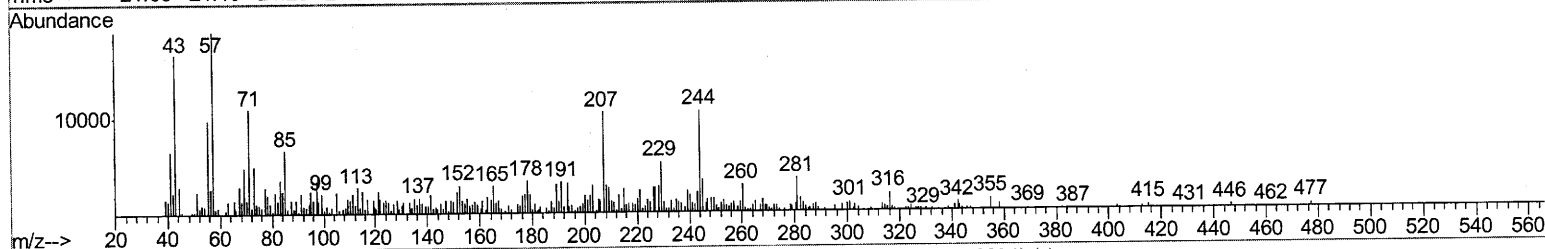
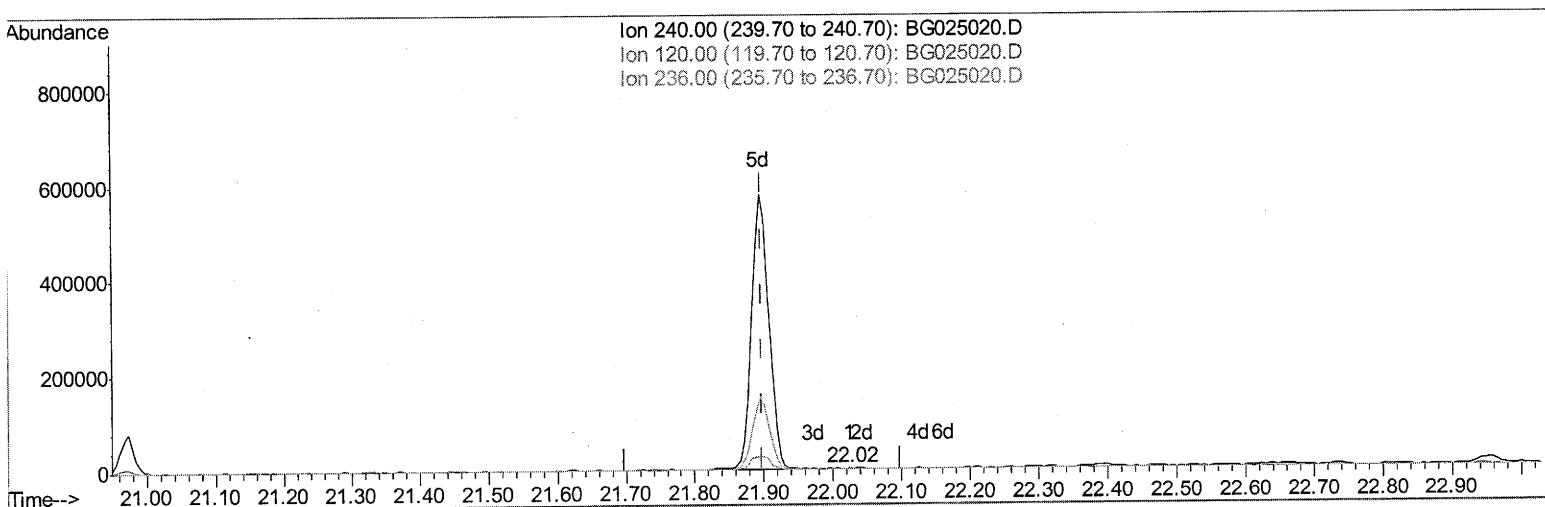
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:43:17 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



(75) Chrysene-d12 (I)

22.025min (+0.126) 20.00ng/ul

response 1287

Ion	Exp%	Act%
240.00	100	100
120.00	6.40	80.59#
236.00	27.90	60.75#
0.00	0.00	0.00

Quantitation Report (Qedit)

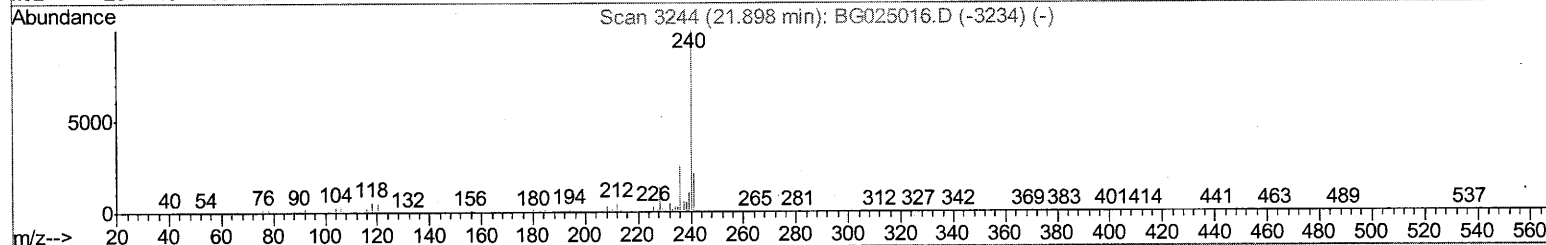
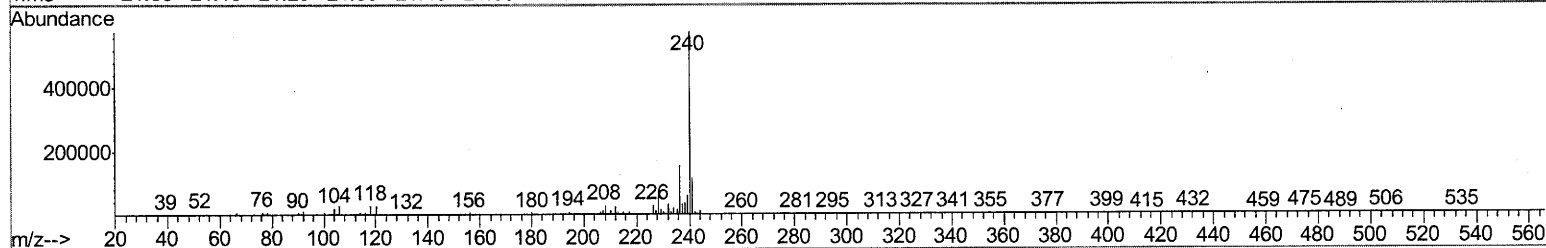
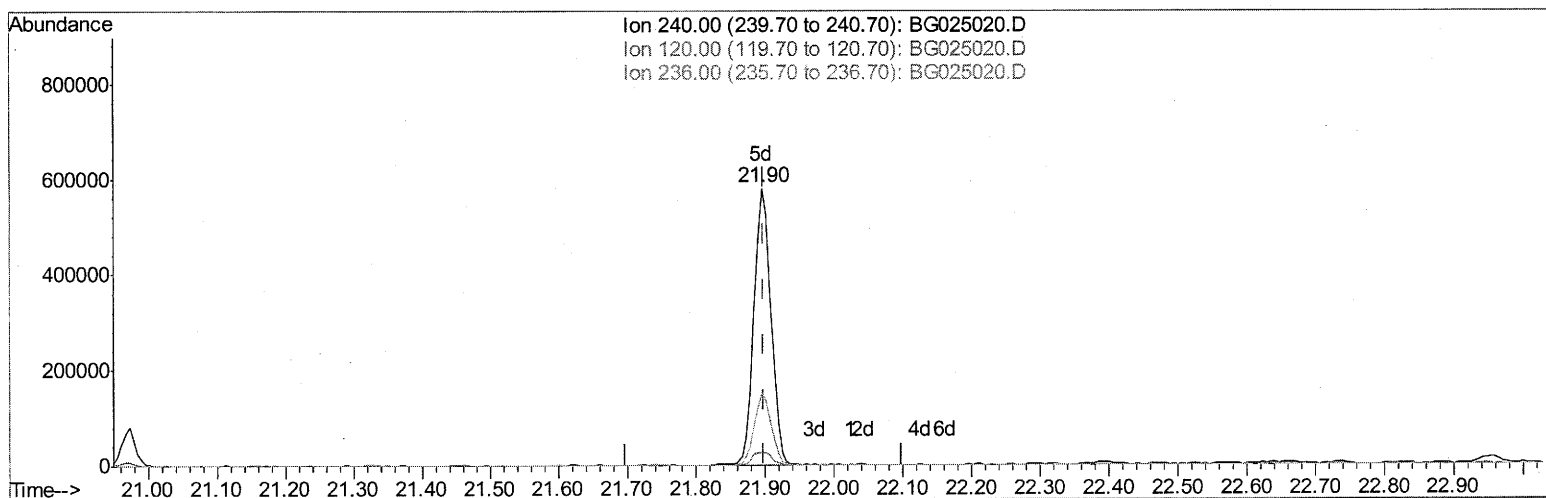
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
 Data File : BG025020.D
 Acq On : 8 Dec 2016 23:55
 Operator : UM/SJ
 Sample : H5863-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampled :
 DA7Y8

Manual Integrations
 APPROVED

sohil
 12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:43:17 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 09 01:31:52 2016
 Response via : Initial Calibration



TIC: BG025020.D

(75) Chrysene-d12 (I)

21.895min (-0.003) 20.00ng/ul m

response 996186

Ion	Exp%	Act%
240.00	100	100
120.00	6.40	4.62#
236.00	27.90	26.54
0.00	0.00	0.00

UM
 12/9/16

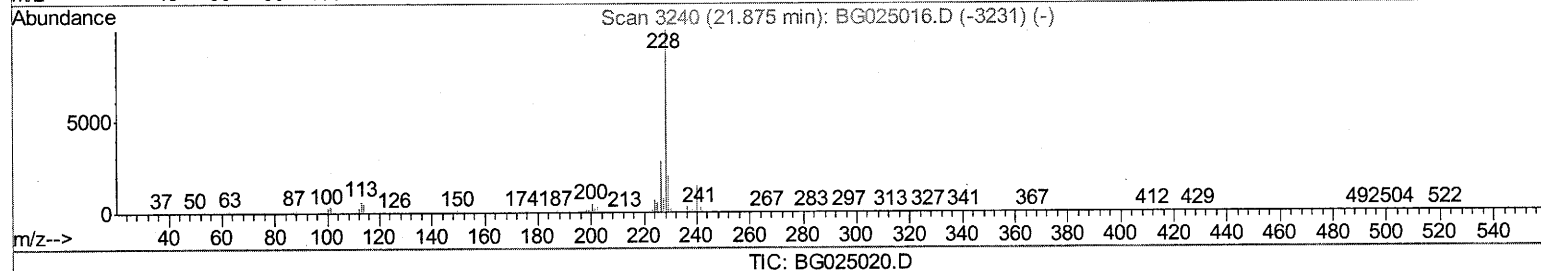
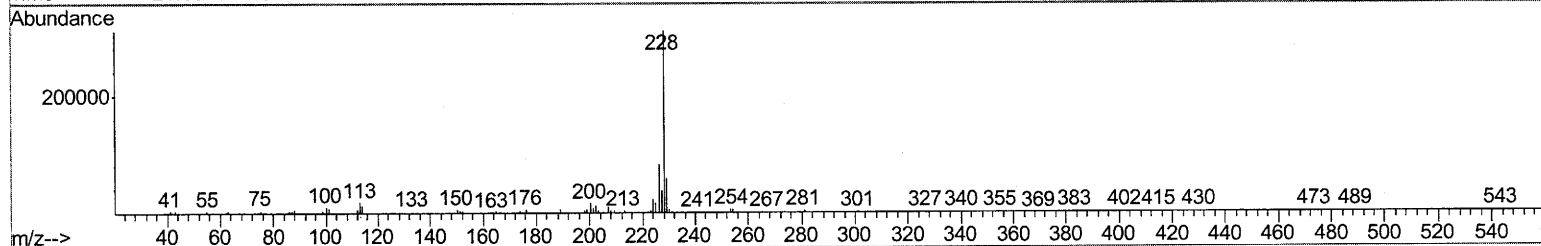
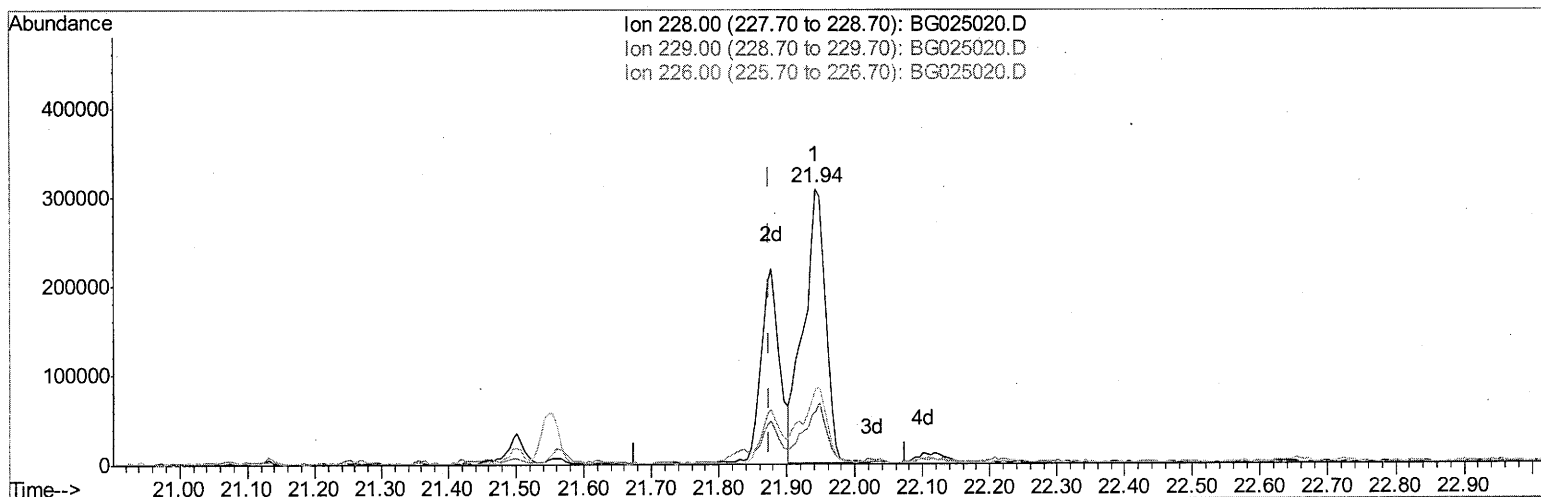
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampled :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:45:30 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



(80) Benzo(a)anthracene

21.942min (+0.068) 13.16ng/ui

response 681214

Ion	Exp%	Act%
228.00	100	100
229.00	20.40	19.07
226.00	27.40	27.07
0.00	0.00	0.00

Quantitation Report (Qedit)

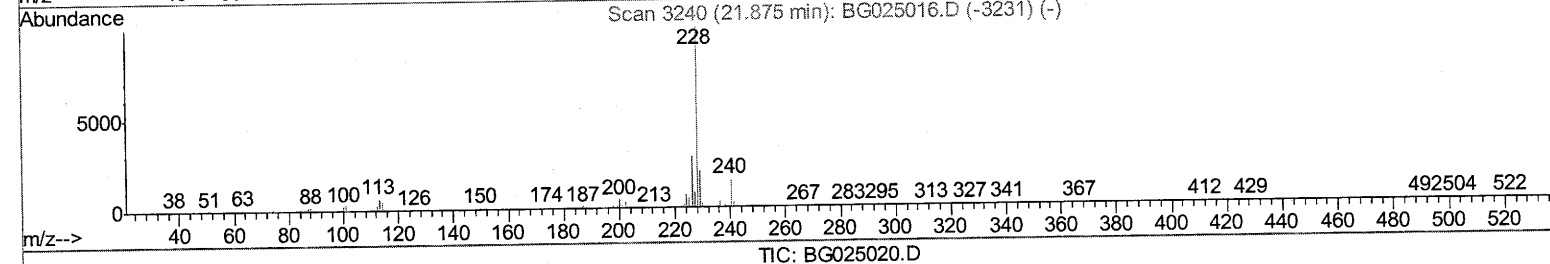
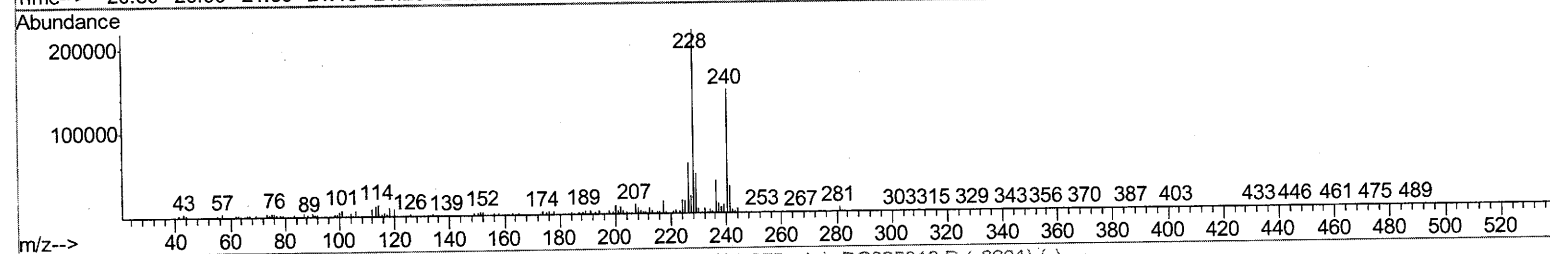
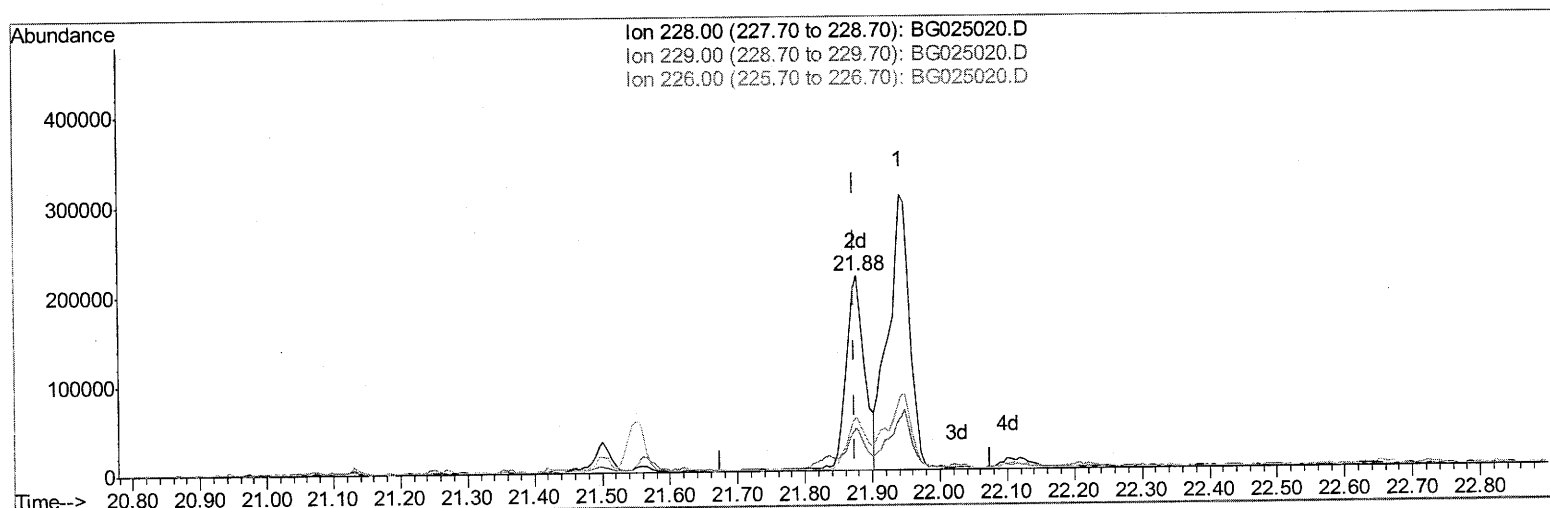
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:45:30 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



(80) Benzo(a)anthracene

21.878min (+0.003) 8.22ng/ul m

response 425602

Ion	Exp%	Act%
228.00	100	100
229.00	20.40	22.11
226.00	27.40	27.39
0.00	0.00	0.00

UM
12/09/16

Quantitation Report (Qedit)

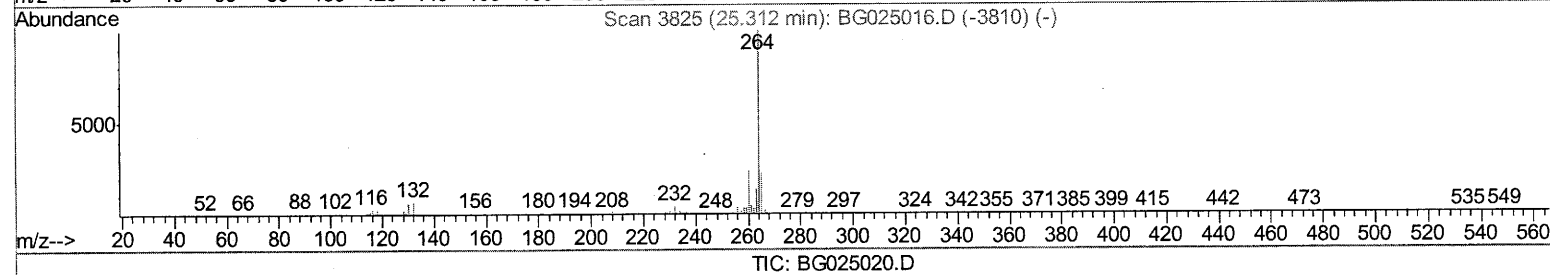
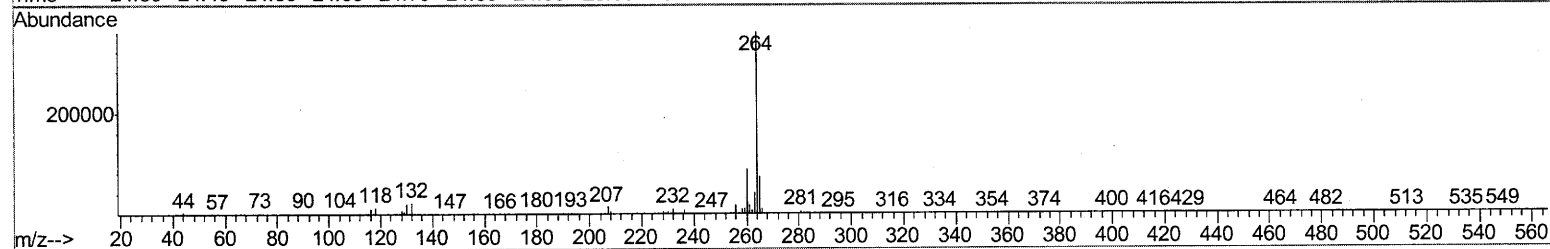
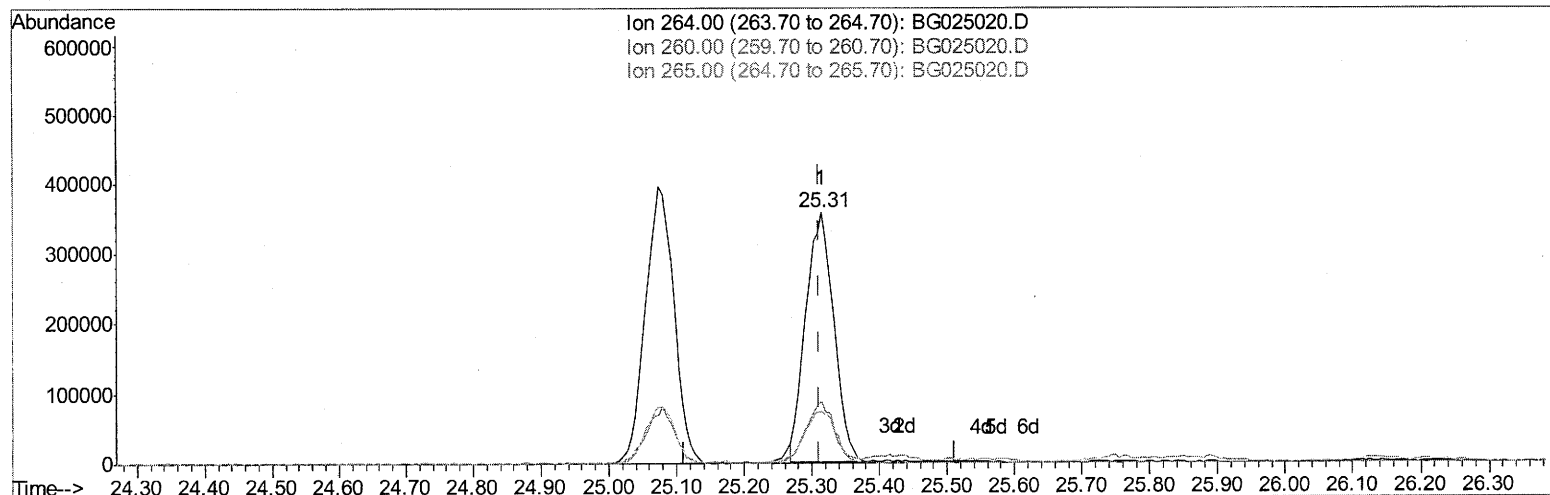
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampled :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:45:30 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



(83) Perylene-d12 (I)

25.315min (+0.003) 20.00ng/ul

response 1020925

Ion	Exp%	Act%
264.00	100	100
260.00	23.90	24.81
265.00	20.60	20.83
0.00	0.00	0.00

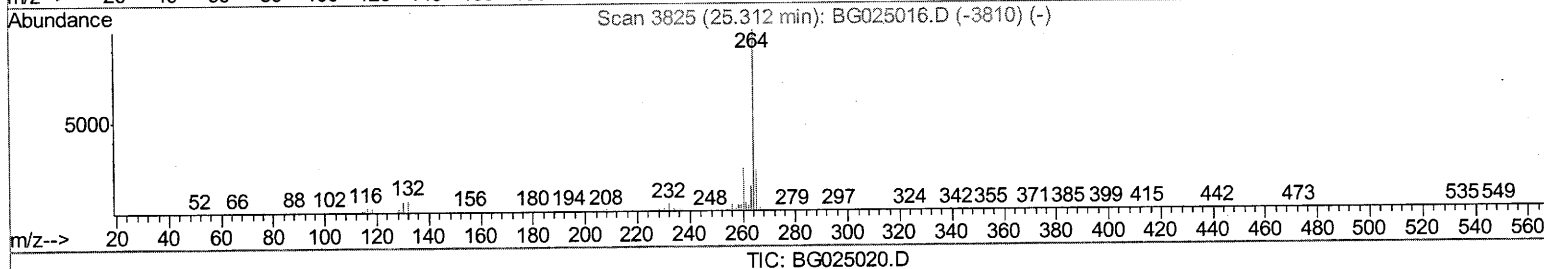
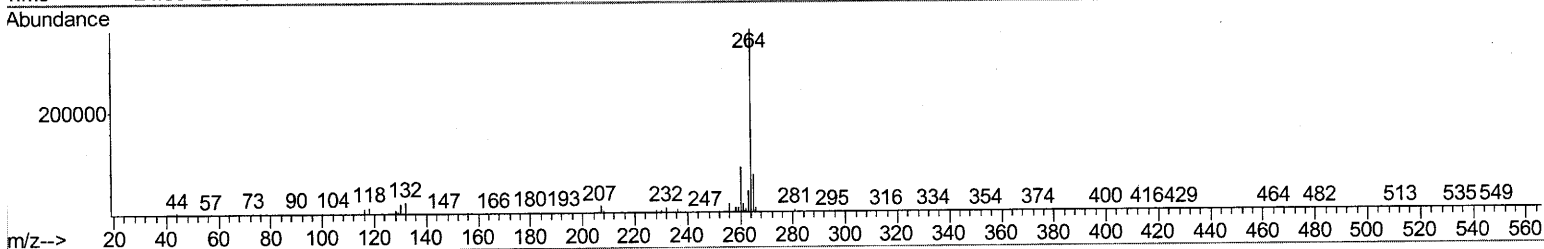
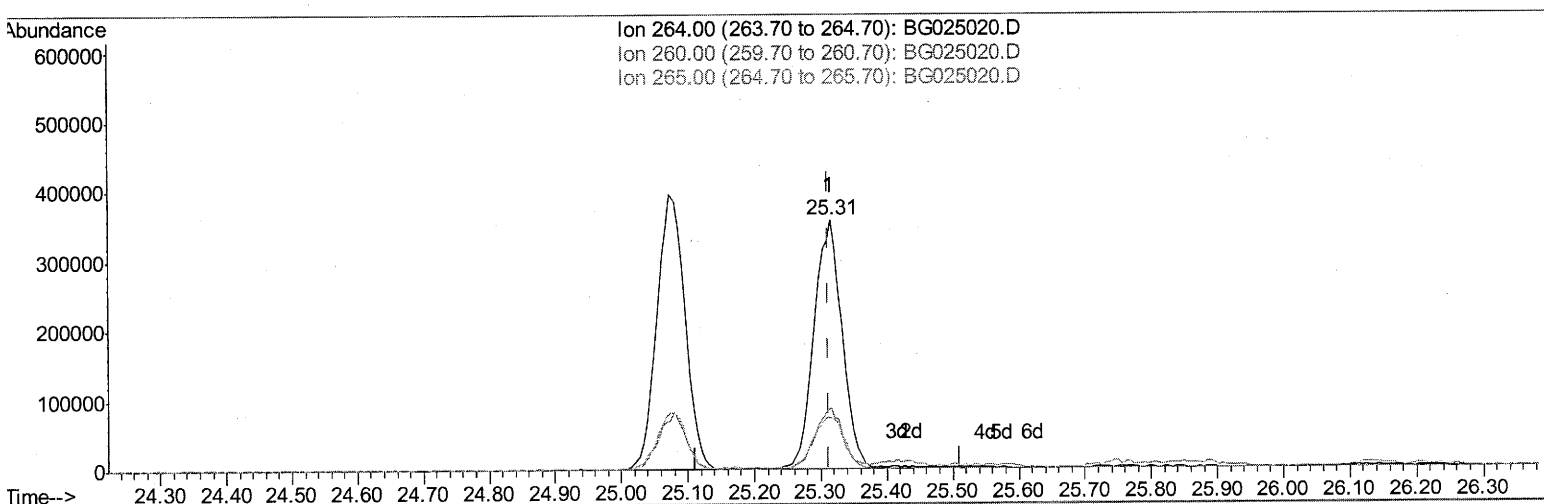
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampled :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:45:30 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



TIC: BG025020.D

(83) Perylene-d12 (I)

25.315min (+0.003) 20.00ng/ul m

response 1056156

Ion	Exp%	Act%
264.00	100	100
260.00	23.90	24.81
265.00	20.60	20.83
0.00	0.00	0.00

cm
12/09/16

Quantitation Report (Qedit)

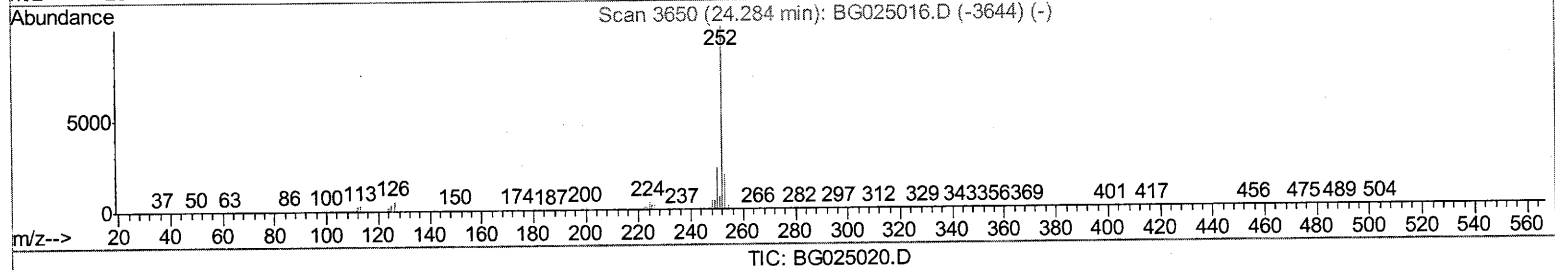
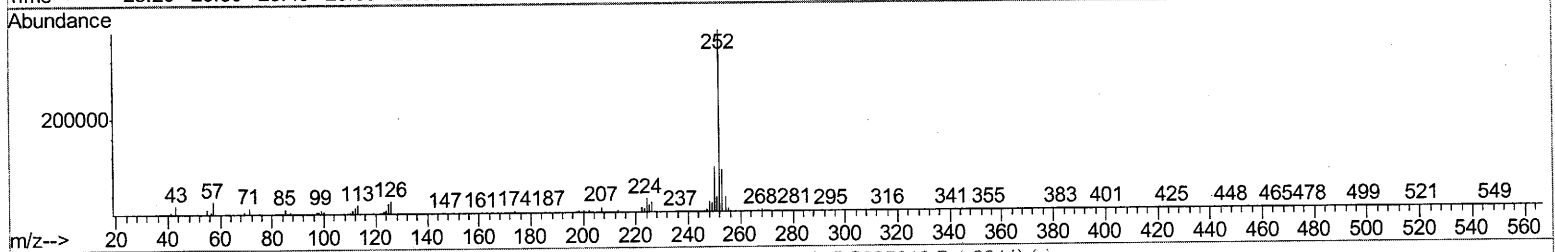
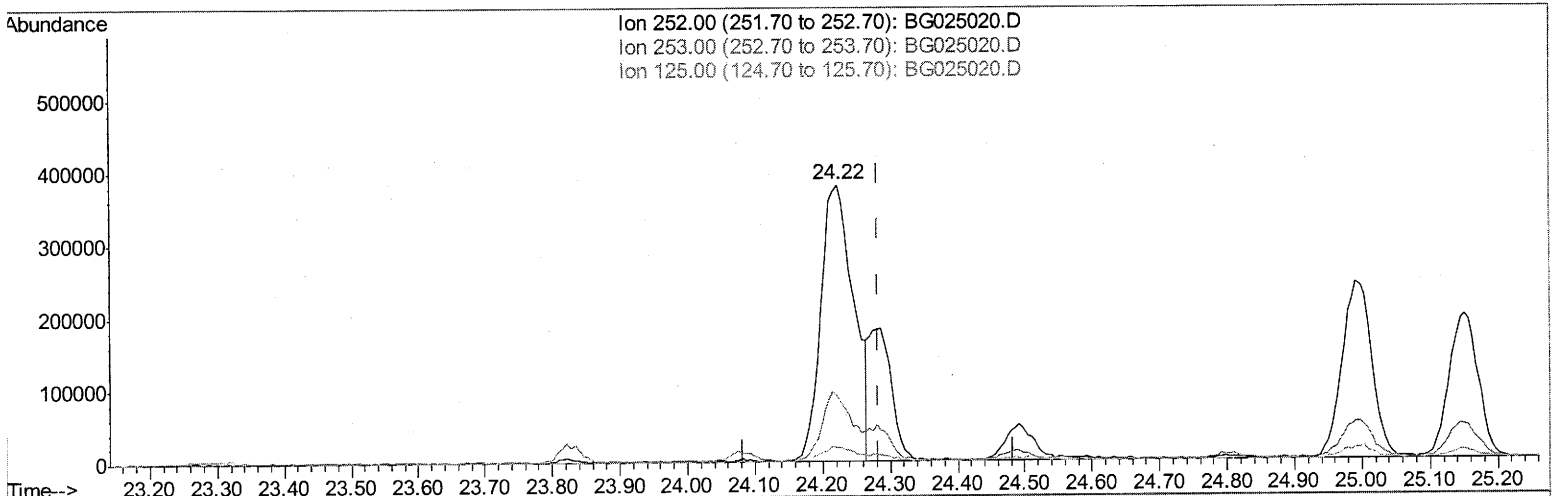
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
 Data File : BG025020.D
 Acq On : 8 Dec 2016 23:55
 Operator : UM/SJ
 Sample : H5863-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA7Y8

Manual Integrations
 APPROVED

sohil
 12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:47:40 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 09 01:31:52 2016
 Response via : Initial Calibration



(86) Benzo(k)fluoranthene
 24.222min (-0.062) 25.64ng/ul
 response 1276518

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	23.56
125.00	5.10	5.21
0.00	0.00	0.00

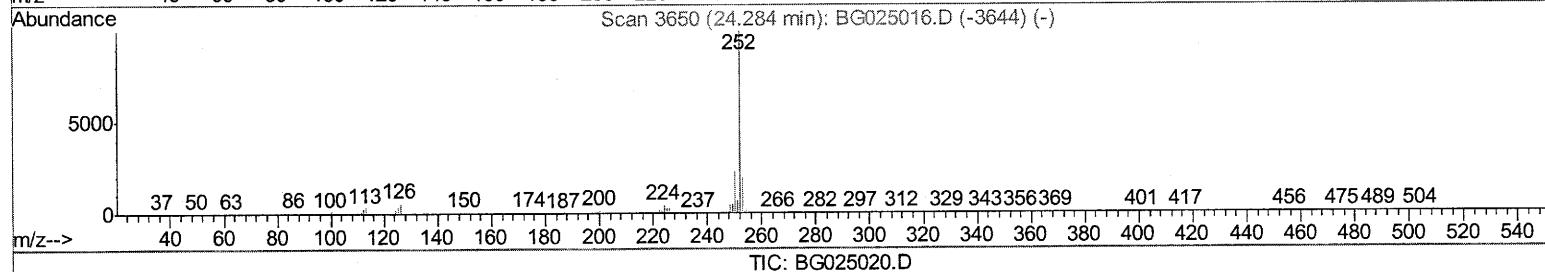
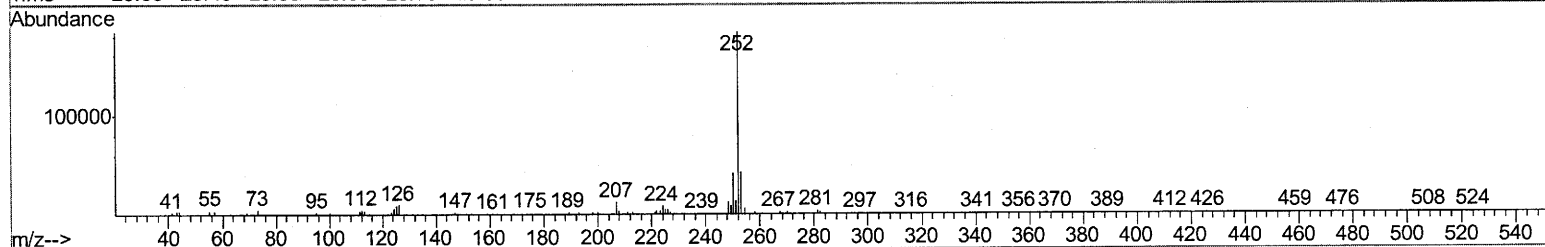
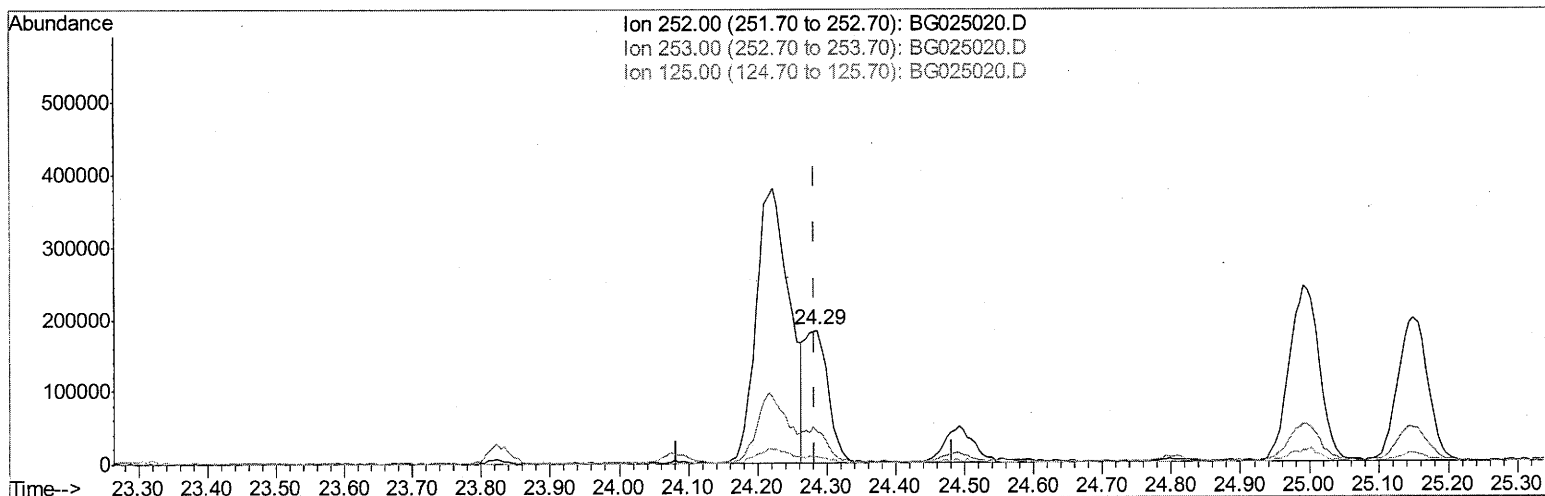
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
Data File : BG025020.D
Acq On : 8 Dec 2016 23:55
Operator : UM/SJ
Sample : H5863-09
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampled :
DA7Y8

Manual Integrations
APPROVED

sohil
12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:47:40 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri Dec 09 01:31:52 2016
Response via : Initial Calibration



(86) Benzo(k)fluoranthene

24.287min (+0.003) 8.50ng/ul m

response 423297

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	23.53
125.00	5.10	4.68
0.00	0.00	0.00

LM
12/09/16

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG120816\
 Data File : BG025020.D
 Acq On : 8 Dec 2016 23:55
 Operator : UM/SJ
 Sample : H5863-09
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 DA7Y8

Manual Integrations
 APPROVED

sohil
 12/9/2016 3:41:25 PM

Quant Time: Dec 09 02:48:14 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Dec 09 01:31:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.24	152	95872	20.00	ng/ul	0.00
18) Naphthalene-d8	11.07	136	373538	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.86	164	317126	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.61	188	723820m	20.00	ng/ul	0.00
75) Chrysene-d12	21.90	240	996186m	20.00	ng/ul	0.00
83) Perylene-d12	25.31	264	1056156m	20.00	ng/ul	0.00

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System Monitoring Compounds

3) 1,4-Dioxane-d8	3.60	96	8930	4.81	ng/uL	0.00
5) Phenol-d5	7.38	99	177131	21.42	ng/ul	0.00
7) Bis-(2-Chloroethyl) ether-d	7.56	67	119639	23.38	ng/ul	0.00
9) 2-Chlorophenol-d4	7.77	132	133131	23.02	ng/ul	0.00
13) 4-Methylphenol-d8	8.94	113	124737	18.05	ng/ul	0.00
19) Nitrobenzene-d5	9.42	128	67897	25.67	ng/ul	0.00
22) 2-Nitrophenol-d4	10.14	143	82552	25.03	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.68	165	153827	24.26	ng/ul	0.00
29) 4-Chloroaniline-d4	11.21	131	57096	9.16	ng/ul	0.00
43) Dimethylphthalate-d6	14.25	166	551879	25.30	ng/ul	0.00
46) Acenaphthylene-d8	14.56	160	613572	25.68	ng/ul	0.00
51) 4-Nitrophenol-d4	15.05	143	65248	17.40	ng/ul	0.00
57) Fluorene-d10	15.85	176	512661	24.97	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.96	200	98845m	22.09	ng/ul	0.00
70) Anthracene-d10	17.70	188	834328	27.31	ng/ul	0.00
76) Pyrene-d10	19.97	212	1081662	26.36	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.07	264	1165509	27.24	ng/ul	0.00

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Target Compounds

					Qvalue
6) Phenol	7.41	94	42274	4.98 ng/ul	95
11) 2-Methylphenol	8.68	108	7159	1.15 ng/ul#	78
14) Acetophenone	9.07	105	22966	2.18 ng/ul#	83
16) 4-Methylphenol	9.00	108	9956m	1.43 ng/ul	
24) 2,4-Dimethylphenol	10.22	107	13745	1.80 ng/ul#	78
28) Naphthalene	11.12	128	18411	1.06 ng/ul	97
34) 2-Methylnaphthalene	12.71	142	21823	1.59 ng/ul	83
44) Dimethylphthalate	14.30	163	100842	4.70 ng/ul#	95
47) Acenaphthylene	14.59	152	28572	1.23 ng/ul#	83
69) Phenanthrene	17.65	178	61108	1.77 ng/ul	95
74) Fluoranthene	19.64	202	482001m	11.74 ng/ul	
77) Pyrene	20.00	202	554003	11.57 ng/ul	99
80) Benzo(a)anthracene	21.88	228	425602m	8.22 ng/ul	
82) Chrysene	21.94	228	681214	14.07 ng/ul	95
85) Benzo(b)fluoranthene	24.22	252	1276518	24.37 ng/ul	97
86) Benzo(k)fluoranthene	24.29	252	423297m	8.50 ng/ul	
88) Benzo(a)pyrene	25.15	252	584995	11.62 ng/ul	97
89) Indeno(1,2,3-cd)pyrene	29.22	276	738482	11.80 ng/ul	97
90) Dibenzo(a,h)anthracene	29.25	278	187869	3.56 ng/ul#	85
91) Benzo(g,h,i)perylene	30.46	276	663925	12.71 ng/ul#	95

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