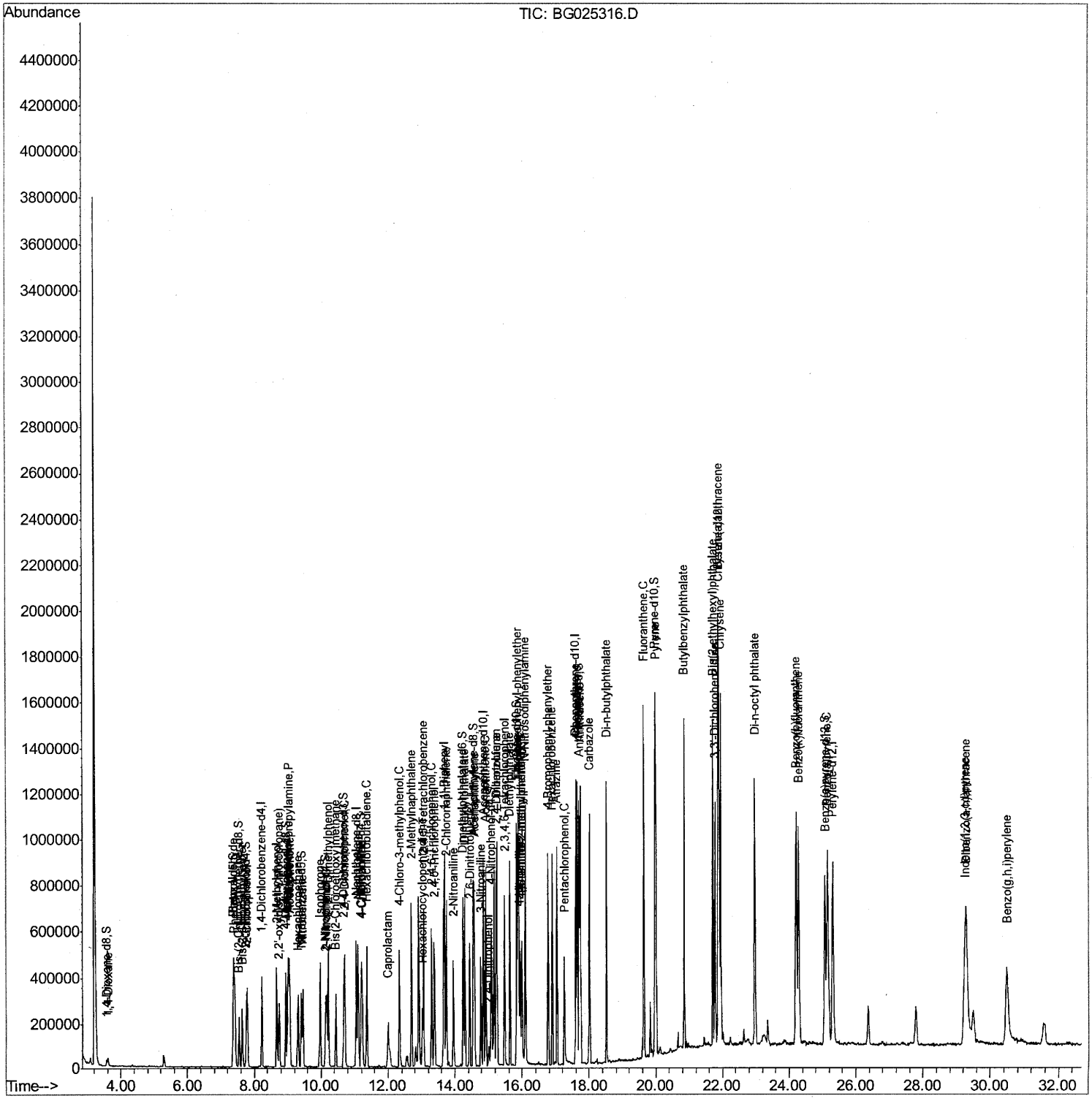
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 02:19:45 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM



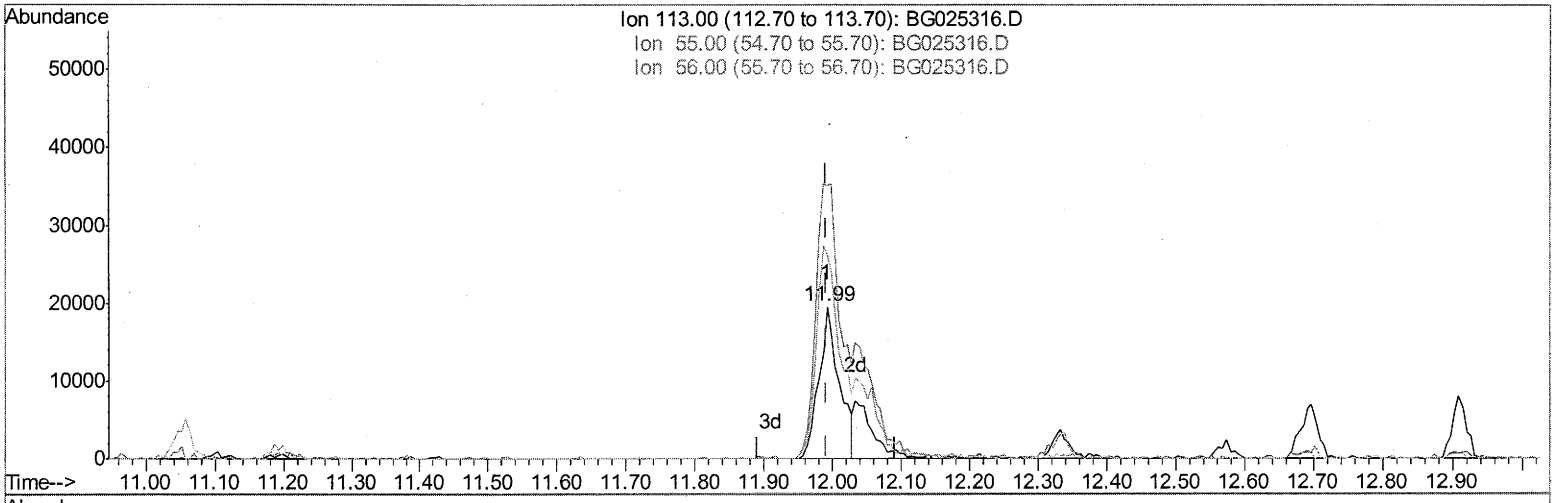
Quantitation Report (Qedit)

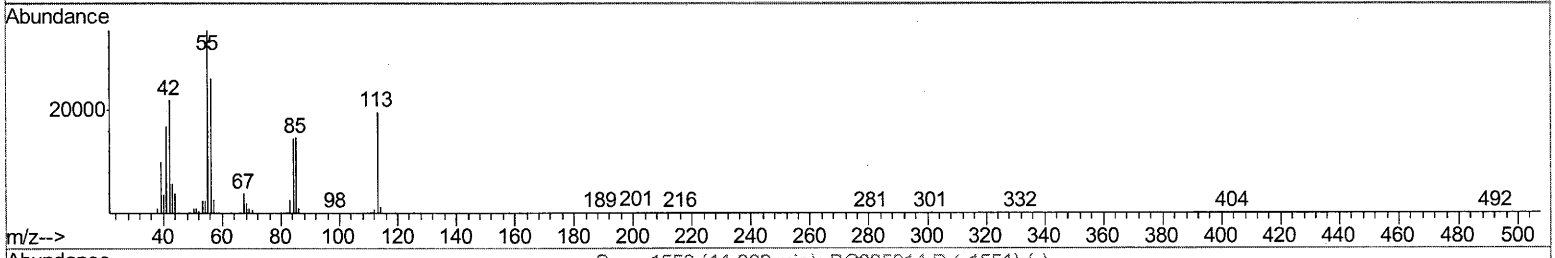
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

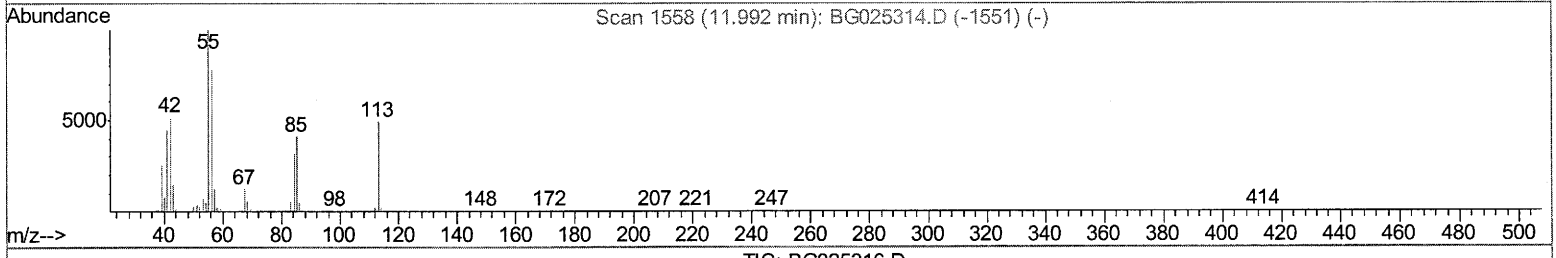
Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM







TIC: BG025316.D

(32) Caprolactam

11.992min (-0.000) 13.64ng/ul

response 40474

Ion	Exp%	Act%
113.00	100	100
55.00	210.70	179.55
56.00	160.60	133.32
0.00	0.00	0.00

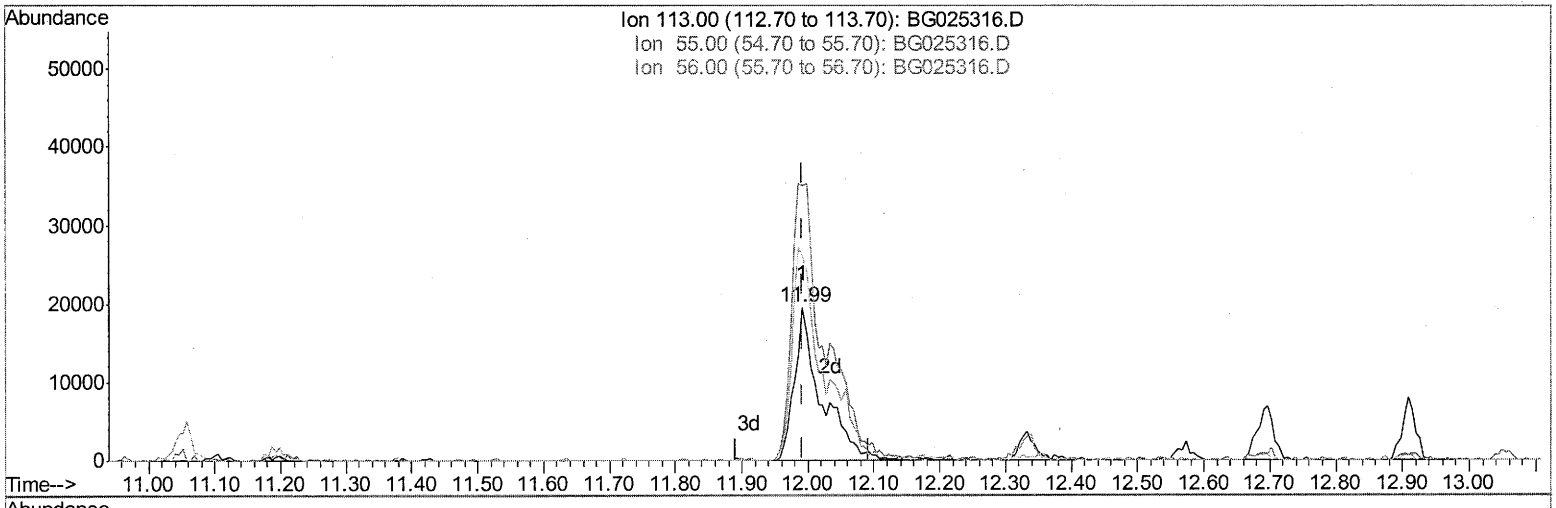
Quantitation Report (Qedit)

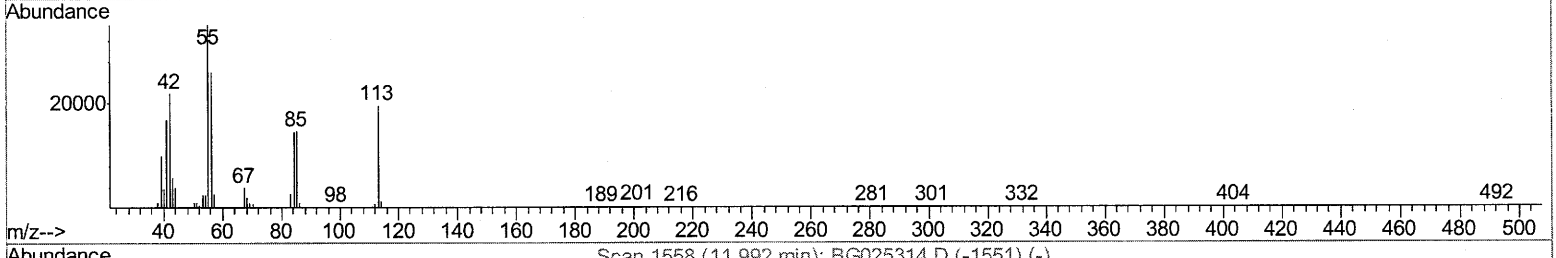
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

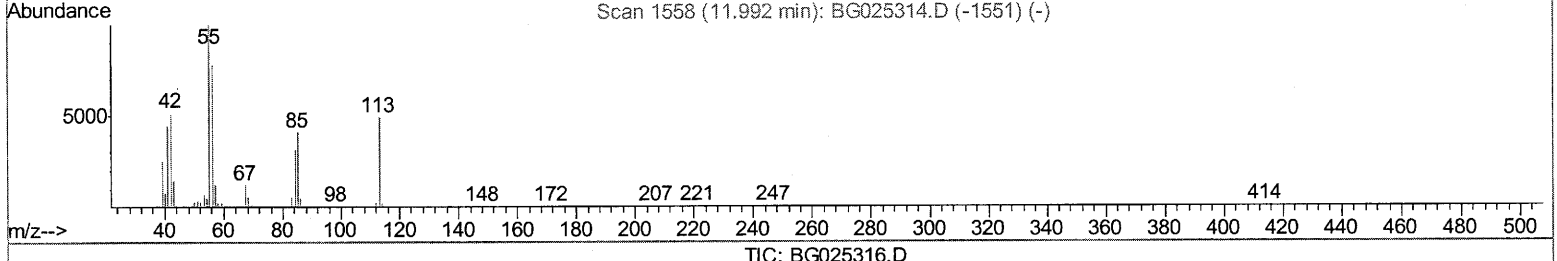
Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM







TIC: BG025316.D

(32) Caprolactam

11.992min (-0.000) 18.41ng/ul m UM
12/20/16

response 54599

Ion	Exp%	Act%
113.00	100	100
55.00	210.70	179.55
56.00	160.60	133.32
0.00	0.00	0.00

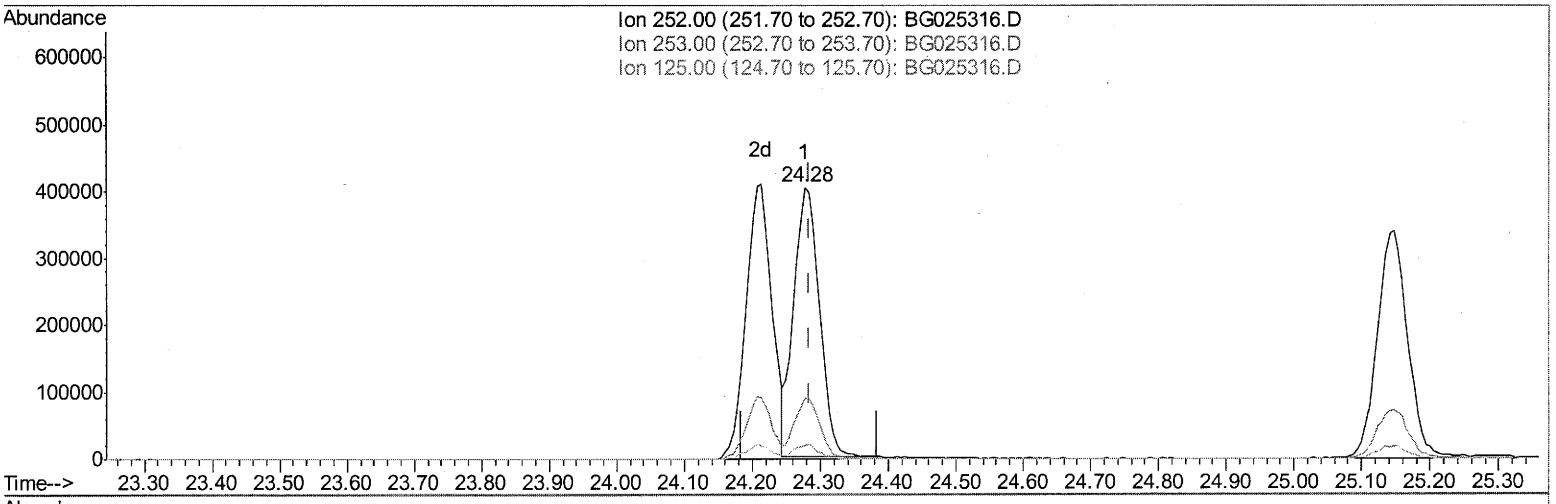
Quantitation Report (Qedit)

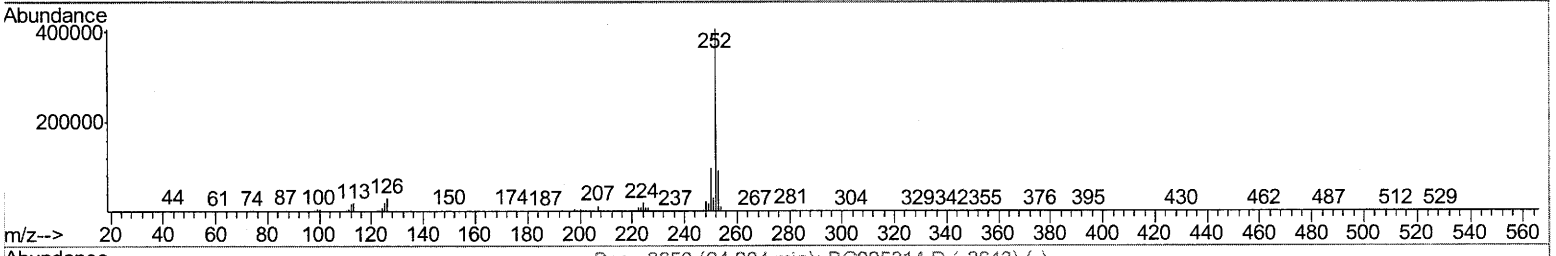
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

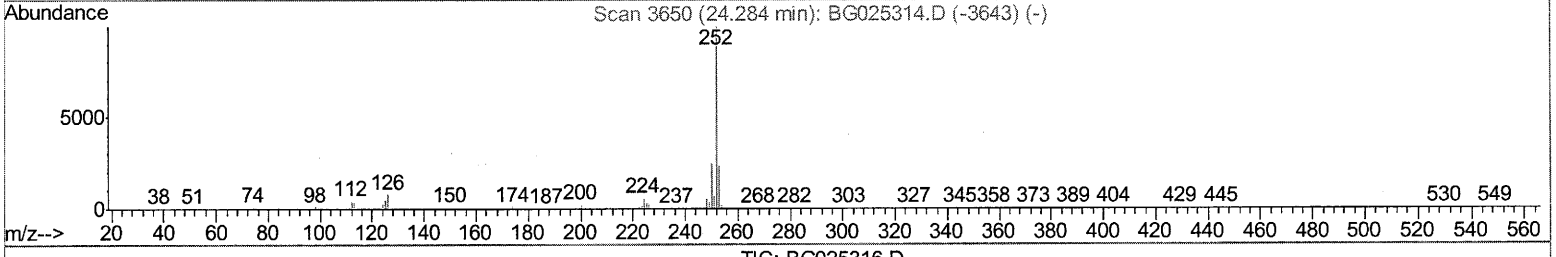
Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM







TIC: BG025316.D

(86) Benzo(k)fluoranthene

24.277min (-0.006) 22.25ng/ul

response 1044768

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	22.78
125.00	5.10	5.09
0.00	0.00	0.00

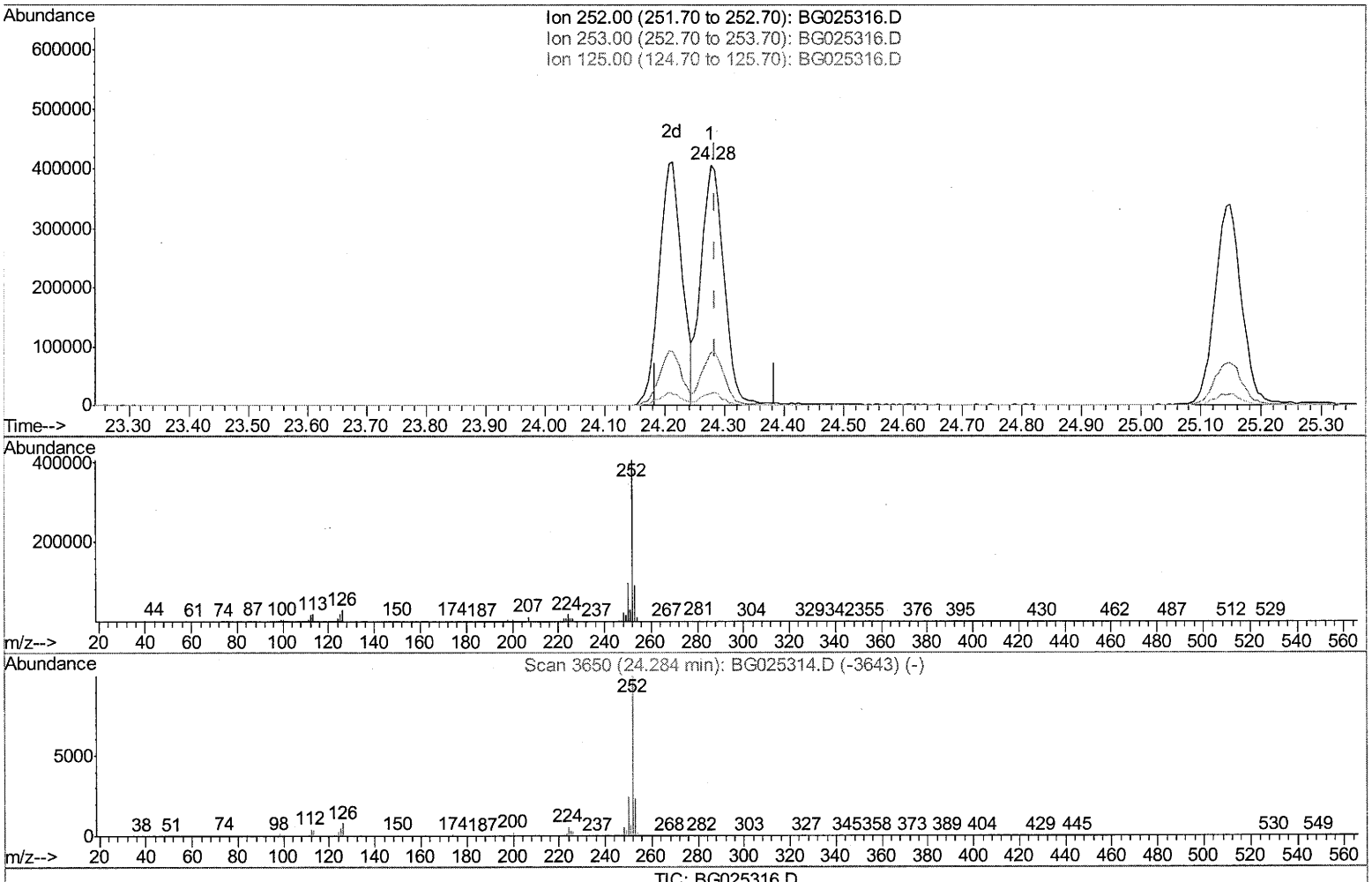
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM



TIC: BG025316.D

(86) Benzo(k)fluoranthene

24.277min (-0.006) 22.90ng/ul m

response 1075616

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	22.78
125.00	5.10	5.09
0.00	0.00	0.00

UM 12/20/16

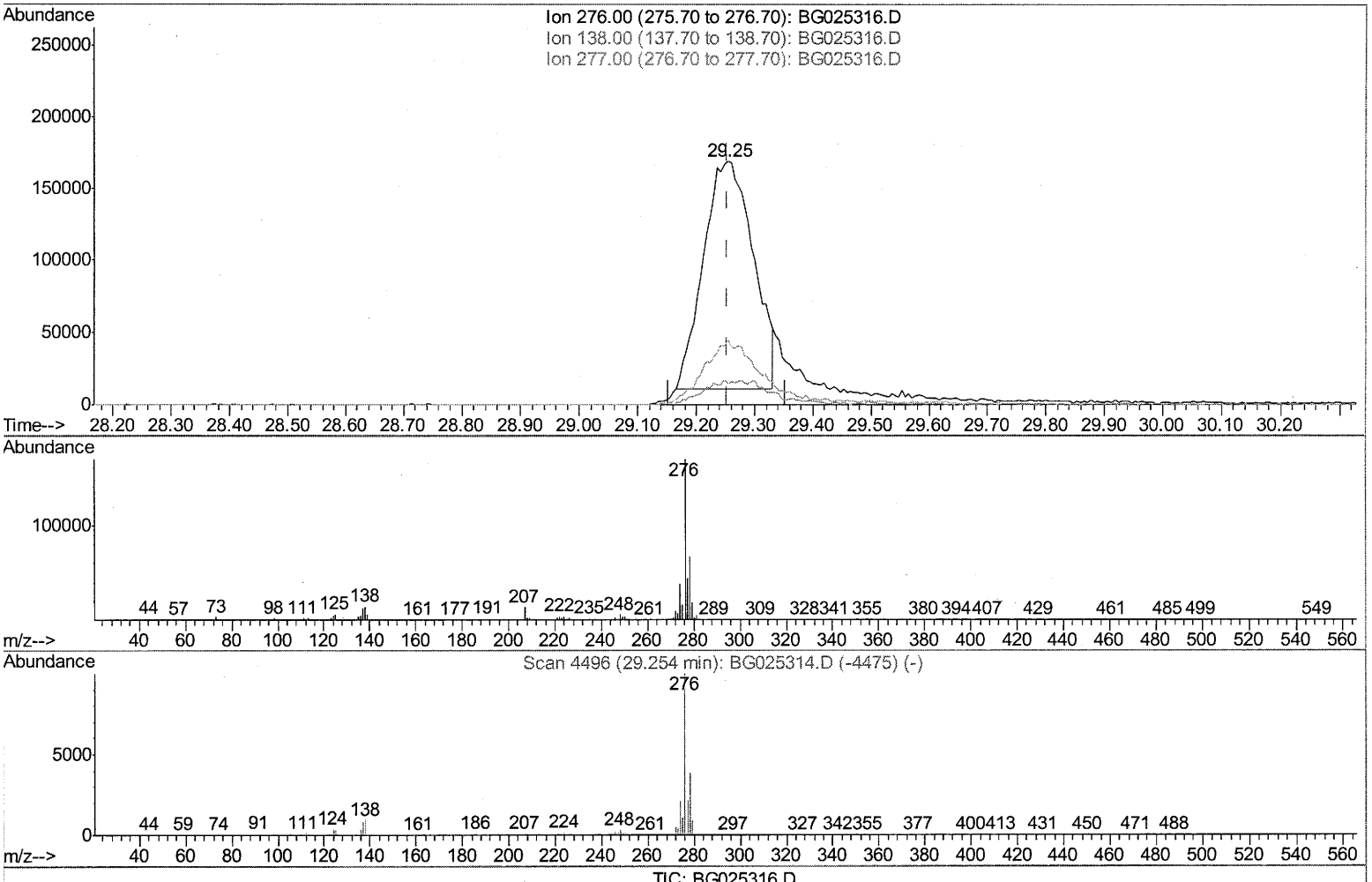
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM



TIC: BG025316.D

(89) Indeno(1,2,3-cd)pyrene

29.254min (-0.000) 15.78ng/ul

response 931467

Ion	Exp%	Act%
276.00	100	100
138.00	10.30	8.54
277.00	23.30	26.27
0.00	0.00	0.00

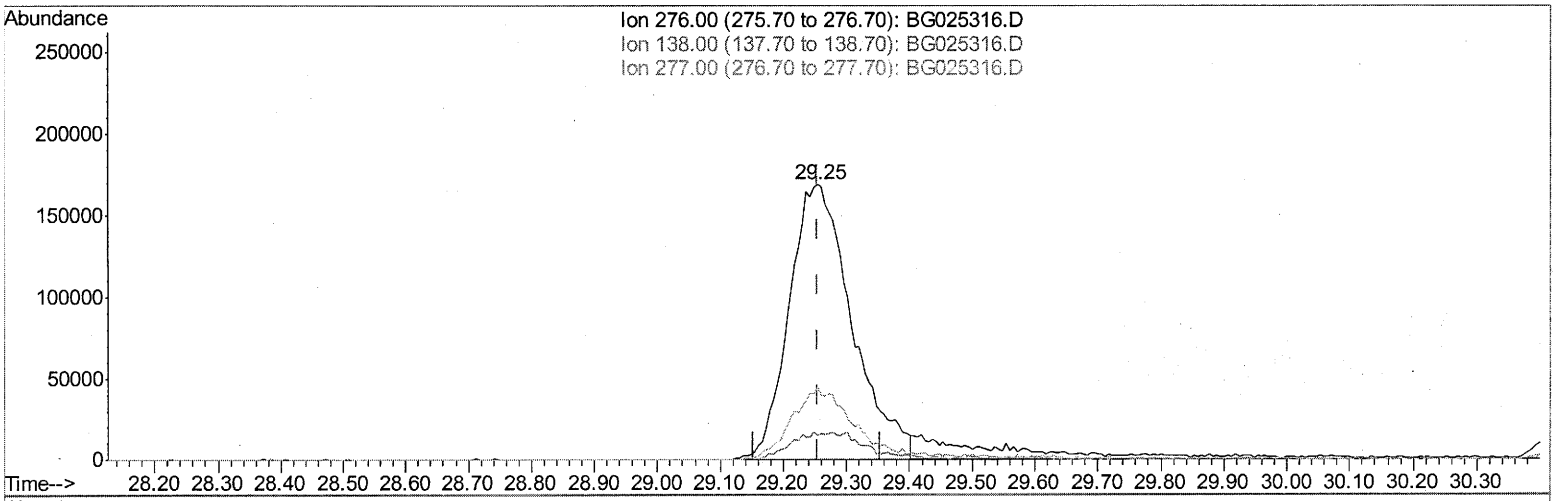
Quantitation Report (Qedit)

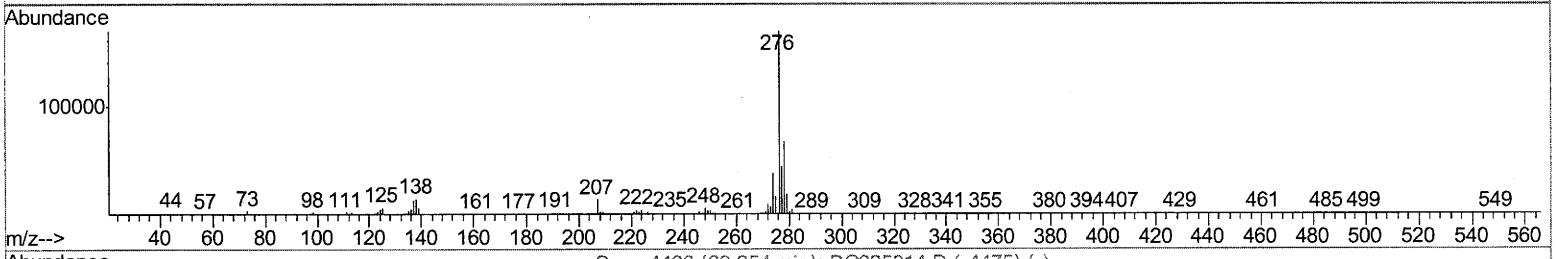
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

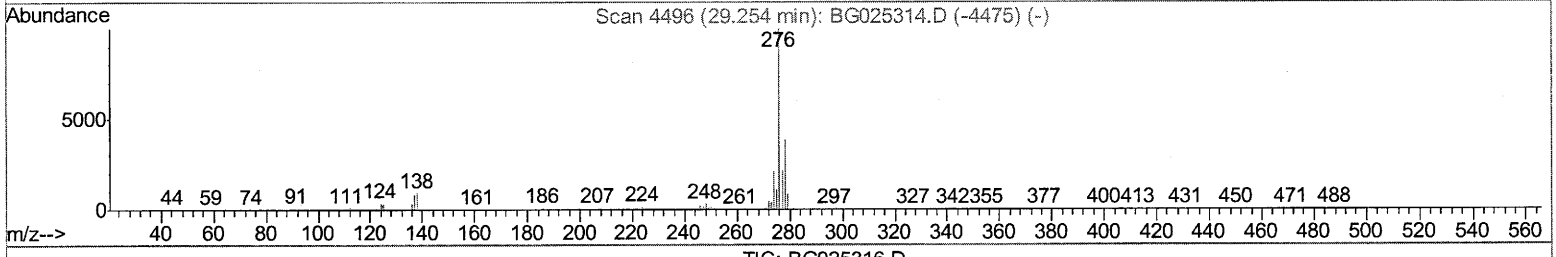
Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM







TIC: BG025316.D

(89) Indeno(1,2,3-cd)pyrene

29.254min (-0.000) 19.74ng/ul m UM

response 1165462 12/20/16

Ion	Exp%	Act%
276.00	100	100
138.00	10.30	8.54
277.00	23.30	26.27
0.00	0.00	0.00

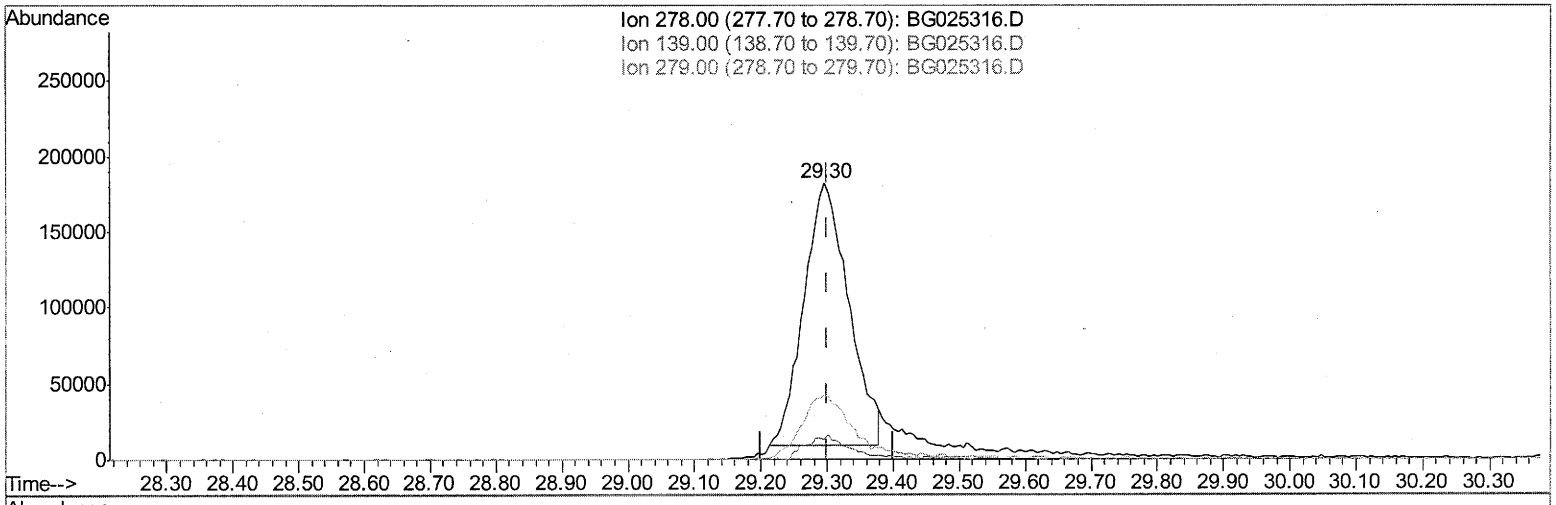
Quantitation Report (Qedit)

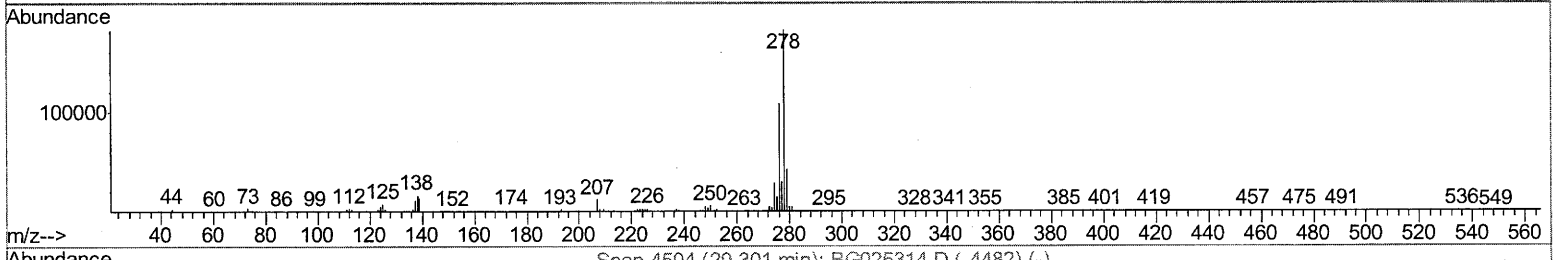
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

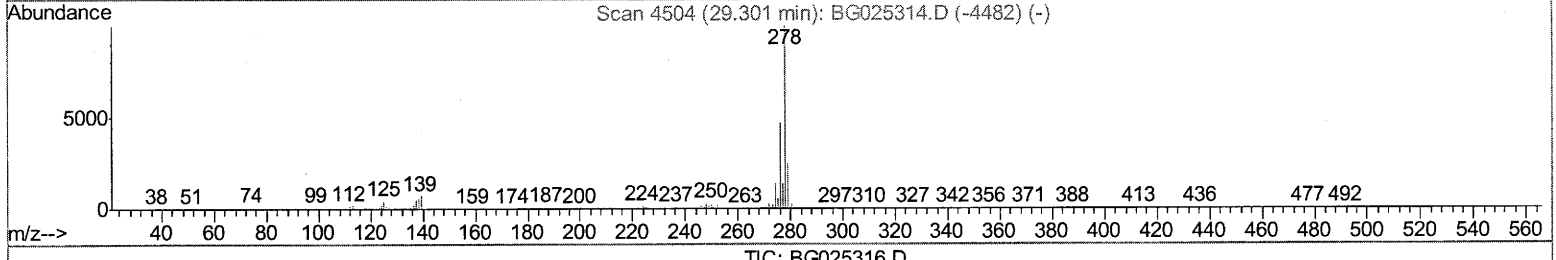
Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM







TIC: BG025316.D

(90) Dibenzo(a,h)anthracene

29.295min (-0.006) 16.27ng/ul

response 809384

Ion	Exp%	Act%
278.00	100	100
139.00	8.40	7.46
279.00	26.10	23.19
0.00	0.00	0.00

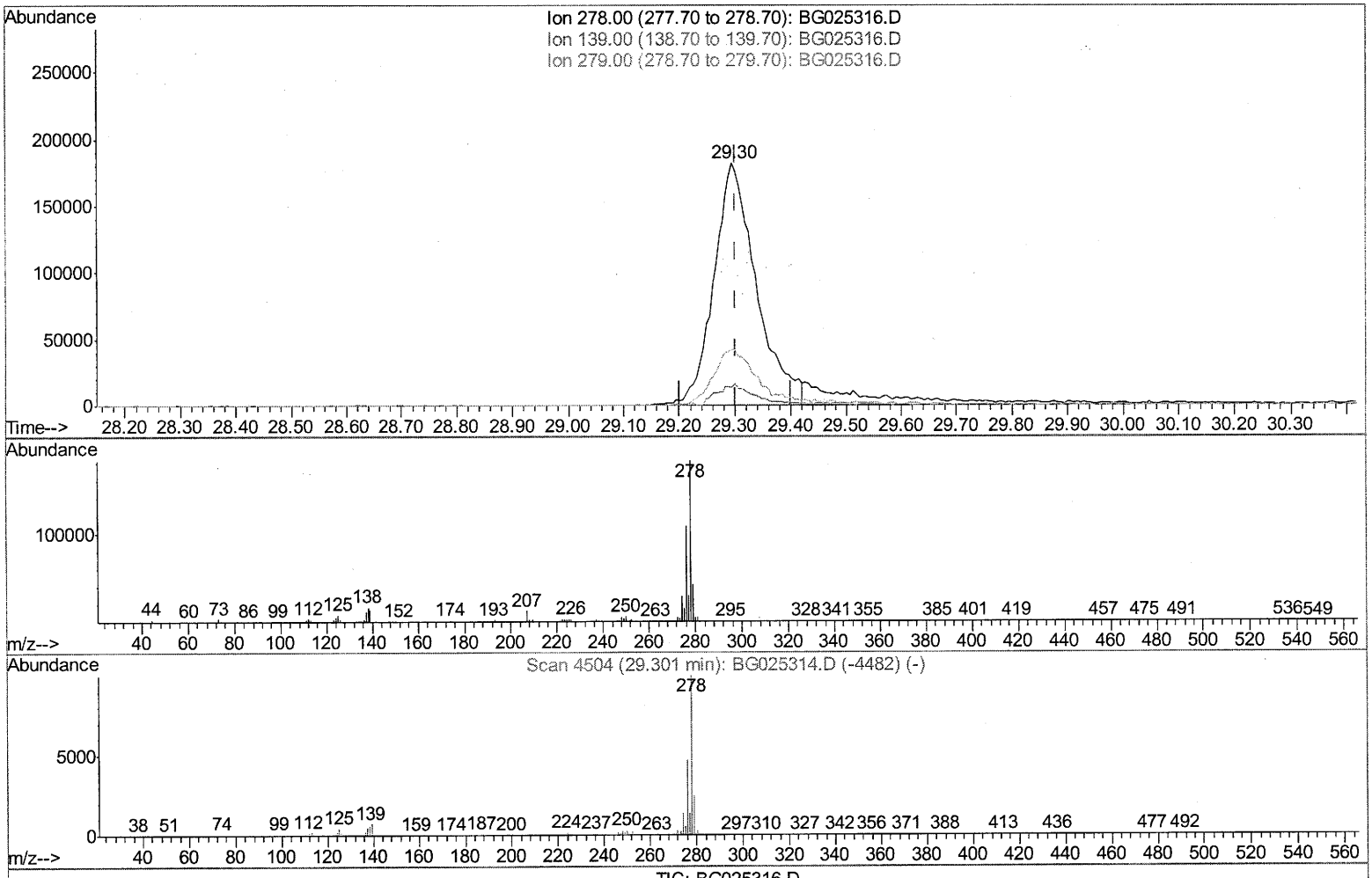
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM



TIC: BG025316.D

(90) Dibenzo(a,h)anthracene

29.295min (-0.006) 19.36ng/ul m UM

response 962697 12/20/16

Ion	Exp%	Act%
278.00	100	100
139.00	8.40	7.46
279.00	26.10	23.19
0.00	0.00	0.00

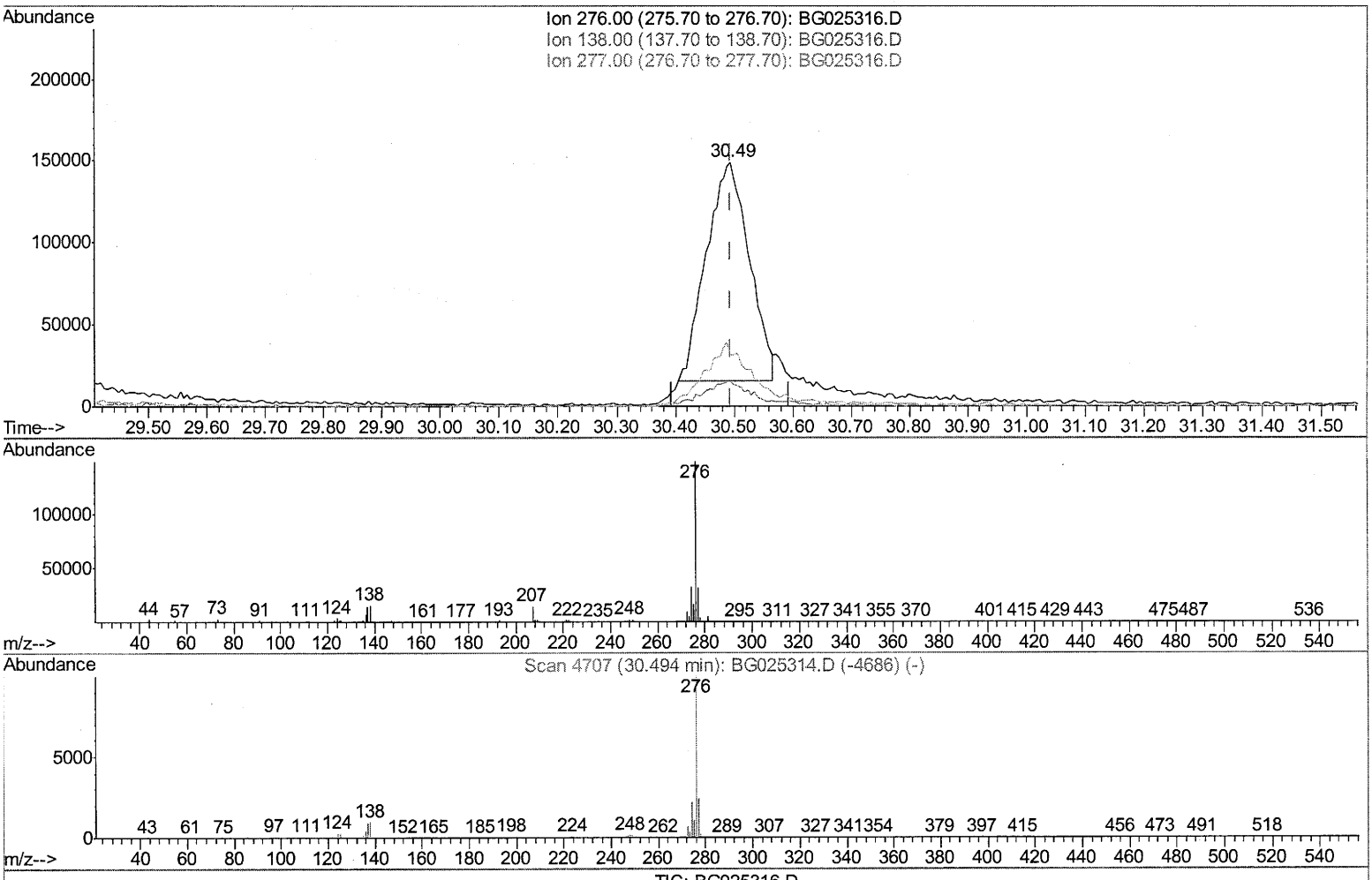
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM



TIC: BG025316.D

(91) Benzo(g,h,i)perylene

30.494min (-0.000) 13.69ng/ul

response 674454

Ion	Exp%	Act%
276.00	100	100
138.00	10.70	10.56
277.00	22.00	21.26
0.00	0.00	0.00

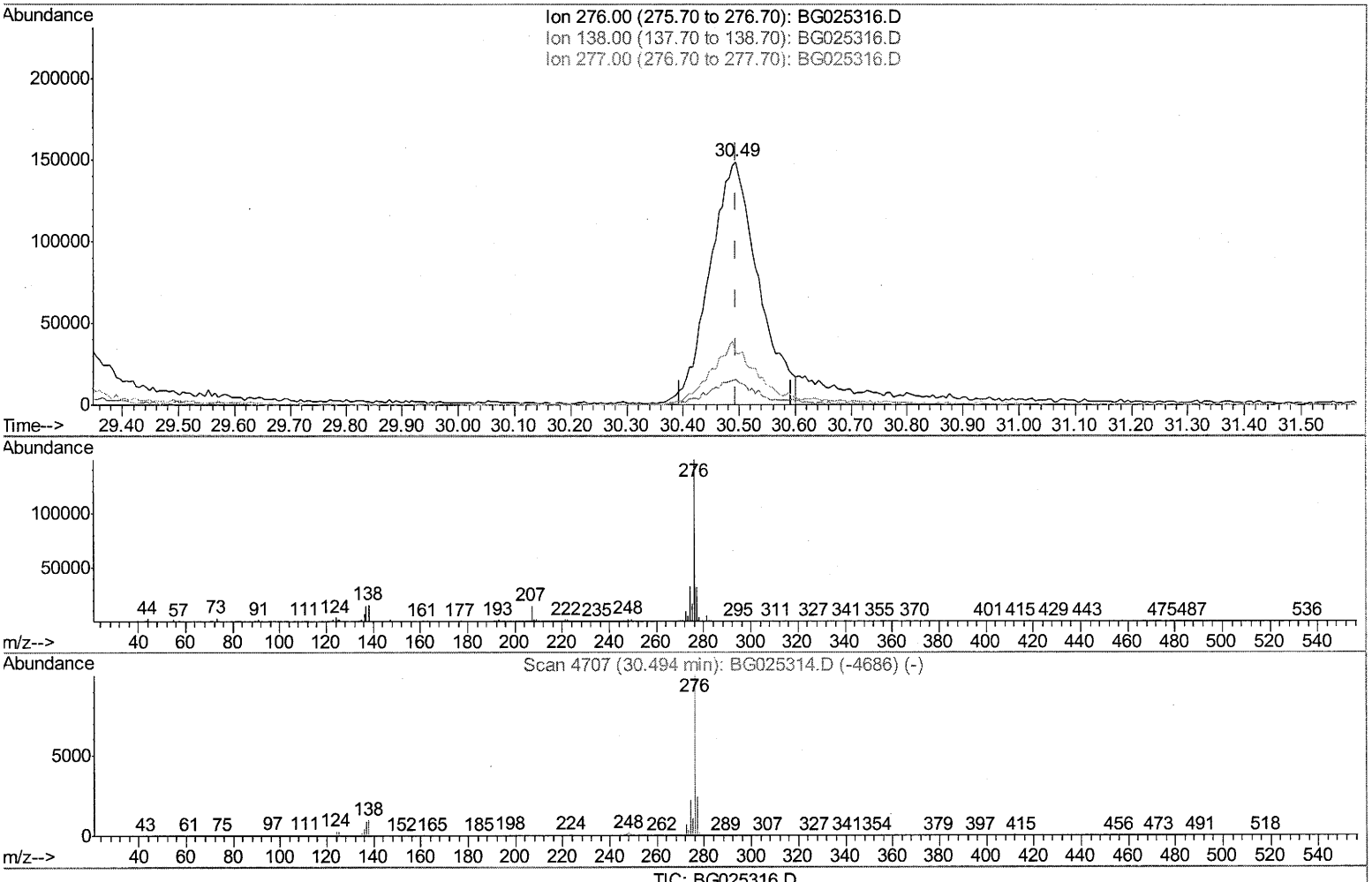
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 01:40:10 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM



TIC: BG025316.D

(91) Benzo(g,h,i)perylene

30.494min (-0.000) 18.11ng/ul m UM
12/20/16

response 892046

Ion	Exp%	Act%
276.00	100	100
138.00	10.70	10.56
277.00	22.00	21.26
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument : BNA_G
LabSampleId : SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM

Quant Time: Dec 20 02:19:45 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.23	152	104105	20.00	ng/ul	0.00
18) Naphthalene-d8	11.05	136	433356	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.85	164	339278	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.60	188	764457	20.00	ng/ul	0.00
75) Chrysene-d12	21.89	240	994518	20.00	ng/ul	0.00
83) Perylene-d12	25.31	264	996276	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.57	96	14482	7.19	ng/uL	0.00
5) Phenol-d5	7.39	99	181208	20.18	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.54	67	116478	20.96	ng/ul	0.00
9) 2-Chlorophenol-d4	7.76	132	134561	21.42	ng/ul	0.00
13) 4-Methylphenol-d8	8.94	113	150415	20.04	ng/ul	0.00
19) Nitrobenzene-d5	9.41	128	67540	22.01	ng/ul	0.00
22) 2-Nitrophenol-d4	10.13	143	82117	21.47	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.68	165	165438	22.49	ng/ul	0.00
29) 4-Chloroaniline-d4	11.20	131	179991	24.89	ng/ul	0.00
43) Dimethylphthalate-d6	14.24	166	472505	20.25	ng/ul	0.00
46) Acenaphthylene-d8	14.55	160	555683	21.74	ng/ul	0.00
51) 4-Nitrophenol-d4	15.08	143	79527	19.83	ng/ul	0.00
57) Fluorene-d10	15.83	176	464655	21.15	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.98	200	86221	18.24	ng/ul	0.00
70) Anthracene-d10	17.70	188	684401	21.21	ng/ul	0.00
76) Pyrene-d10	19.97	212	867373	21.17	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.07	264	896125	22.20	ng/ul	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.62	88	17958	6.84	ng/uL#	83
4) Benzaldehyde	7.37	77	148091	21.90	ng/ul	98
6) Phenol	7.41	94	200941	21.80	ng/ul	97
8) Bis(2-Chloroethyl)ether	7.64	93	138184	20.49	ng/ul	97
10) 2-Chlorophenol	7.79	128	132168	20.93	ng/ul	91
11) 2-Methylphenol	8.67	108	139409	20.54	ng/ul	85
12) 2,2'-oxybis(1-Chloropropan	8.75	45	245158	21.37	ng/ul	99
14) Acetophenone	9.06	105	222779	19.50	ng/ul	94
15) N-Nitroso-di-n-propylamine	9.03	70	130918	19.84	ng/ul#	86
16) 4-Methylphenol	9.01	108	150686	19.96	ng/ul	99
17) Hexachloroethane	9.31	117	59771	21.37	ng/ul	96
20) Nitrobenzene	9.45	77	205544	21.80	ng/ul	97
21) Isophorone	9.96	82	345114	19.34	ng/ul	98
23) 2-Nitrophenol	10.16	139	80744	20.81	ng/ul	94
24) 2,4-Dimethylphenol	10.21	107	189723	21.38	ng/ul	96
25) Bis(2-Chloroethoxy)methane	10.44	93	187165	20.58	ng/ul#	88
27) 2,4-Dichlorophenol	10.71	162	157129	21.99	ng/ul	96
28) Naphthalene	11.10	128	425008	21.10	ng/ul	98
30) 4-Chloroaniline	11.22	127	182139	24.64	ng/ul#	88
31) Hexachlorobutadiene	11.36	225	128779	20.97	ng/ul	94
32) Caprolactam	11.99	113	54599m	18.41	ng/ul	
33) 4-Chloro-3-methylphenol	12.33	107	182449	20.72	ng/ul	96
34) 2-Methylnaphthalene	12.69	142	332782	20.93	ng/ul	93

UM 12/20/16

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121916\
Data File : BG025316.D
Acq On : 19 Dec 2016 12:34
Operator : UM/SJ
Sample : SSTDCCC020EC
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 02:19:45 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 20 01:37:17 2016
Response via : Initial Calibration

Instrument : BNA_G
LabSampleId : SSTD02022

Manual Integrations APPROVED
sohil
12/20/2016 6:29:44 PM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,2,4,5-Tetrachlorobenzene	13.06	216	237562	23.23 ng/ul#	96
37) Hexachlorocyclopentadiene	13.01	237	74350	12.39 ng/ul#	98
38) 2,4,6-Trichlorophenol	13.30	196	145967	22.72 ng/ul	85
39) 2,4,5-Trichlorophenol	13.38	196	155279	22.05 ng/ul	100
40) 1,1'-Biphenyl	13.68	154	458211	22.28 ng/ul	99
41) 2-Chloronaphthalene	13.74	162	352968	21.56 ng/ul	95
42) 2-Nitroaniline	13.95	65	148123	23.11 ng/ul	95
44) Dimethylphthalate	14.29	163	471400	20.55 ng/ul	98
45) 2,6-Dinitrotoluene	14.44	165	104462	21.20 ng/ul#	95
47) Acenaphthylene	14.58	152	539599	21.71 ng/ul	98
48) 3-Nitroaniline	14.77	138	101526	23.79 ng/ul#	93
49) Acenaphthene	14.92	153	375668	22.07 ng/ul	100
50) 2,4-Dinitrophenol	14.99	184	28039	8.76 ng/ul#	80
52) 4-Nitrophenol	15.09	109	103180	21.39 ng/ul	90
53) Dibenzofuran	15.25	168	575472	21.37 ng/ul	97
54) 2,4-Dinitrotoluene	15.23	165	152766	20.57 ng/ul#	92
55) 2,3,4,6-Tetrachlorophenol	15.48	232	159883	21.49 ng/ul	98
56) Diethylphthalate	15.63	149	486792	20.04 ng/ul	98
58) Fluorene	15.89	166	464454	21.19 ng/ul	97
59) 4-Chlorophenyl-phenylether	15.88	204	251882	20.40 ng/ul#	85
60) 4-Nitroaniline	15.93	138	107750	20.93 ng/ul	92
63) 4,6-Dinitro-2-methylphenol	15.99	198	91215	18.63 ng/ul#	98
64) N-Nitrosodiphenylamine	16.09	169	425991	21.66 ng/ul	96
65) 4-Bromophenyl-phenylether	16.77	248	191432	22.17 ng/ul	97
66) Hexachlorobenzene	16.90	284	213536	21.96 ng/ul#	90
67) Atrazine	17.03	200	189539	20.27 ng/ul	96
68) Pentachlorophenol	17.25	266	113052	19.36 ng/ul	90
69) Phenanthrene	17.64	178	792381	21.72 ng/ul	99
71) Anthracene	17.73	178	805185	21.47 ng/ul	99
72) Carbazole	18.00	167	711876	22.75 ng/ul	98
73) Di-n-butylphthalate	18.51	149	831499	21.04 ng/ul	99
74) Fluoranthene	19.64	202	1013700	23.38 ng/ul	98
77) Pyrene	20.00	202	1023295	21.40 ng/ul	98
78) Butylbenzylphthalate	20.85	149	408032	21.80 ng/ul	99
79) 3,3'-Dichlorobenzidine	21.77	252	416461	24.02 ng/ul	94
80) Benzo(a)anthracene	21.87	228	1113006	21.54 ng/ul	100
81) Bis(2-ethylhexyl)phthalate	21.71	149	557631	21.64 ng/ul	99
82) Chrysene	21.94	228	1046610	21.66 ng/ul	98
84) Di-n-octyl phthalate	22.97	149	958137	23.69 ng/ul	100
85) Benzo(b)fluoranthene	24.21	252	1082989	21.92 ng/ul	100
86) Benzo(k)fluoranthene	24.28	252	1075616m	22.90 ng/ul	
88) Benzo(a)pyrene	25.15	252	1024272	21.56 ng/ul	98
89) Indeno(1,2,3-cd)pyrene	29.25	276	1165462m	19.74 ng/ul	
90) Dibenzo(a,h)anthracene	29.30	278	962697m	19.36 ng/ul	
91) Benzo(g,h,i)perylene	30.49	276	892046m	18.11 ng/ul	

UM 12/20/16

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