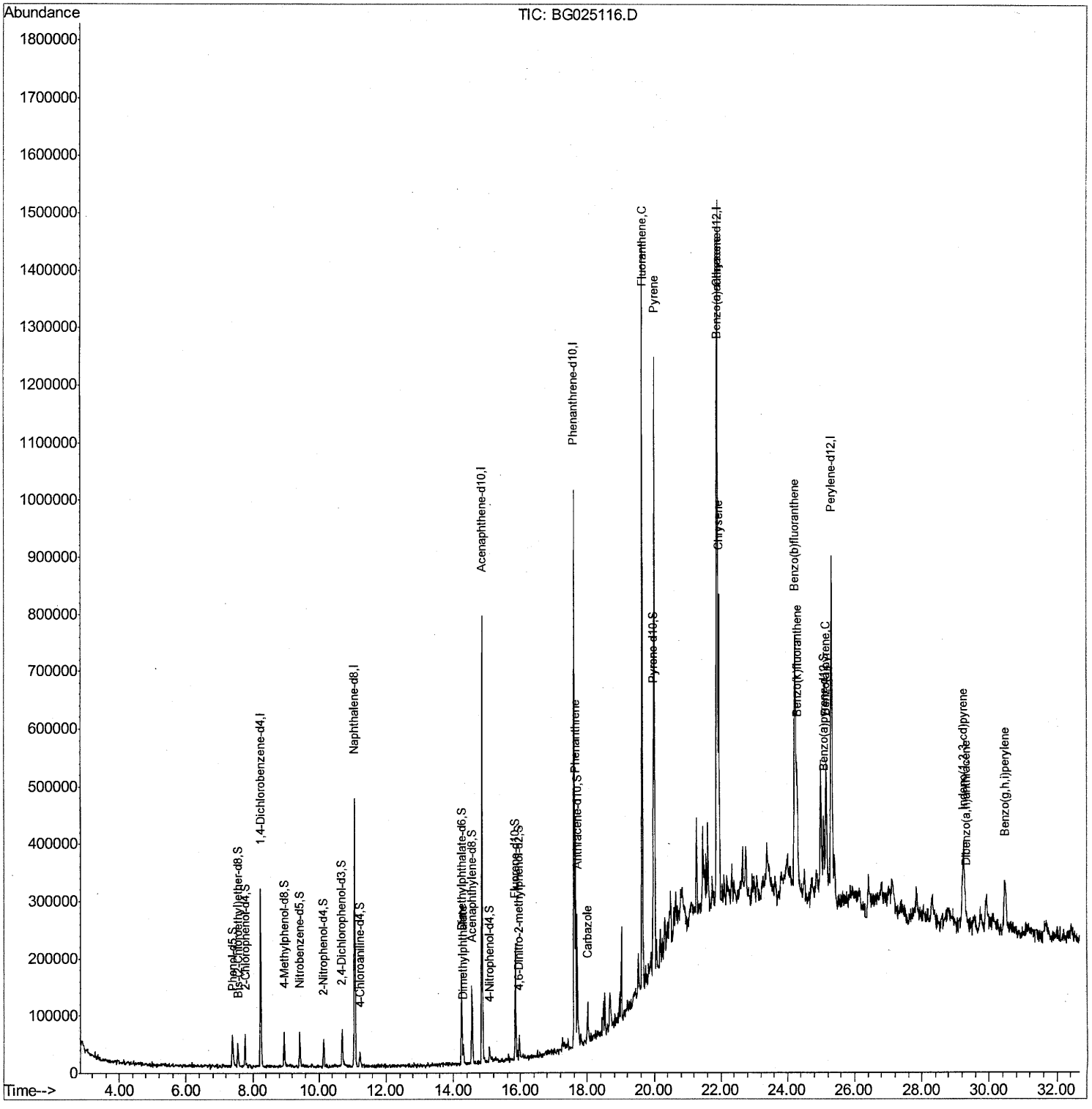
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 13 00:54:02 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM



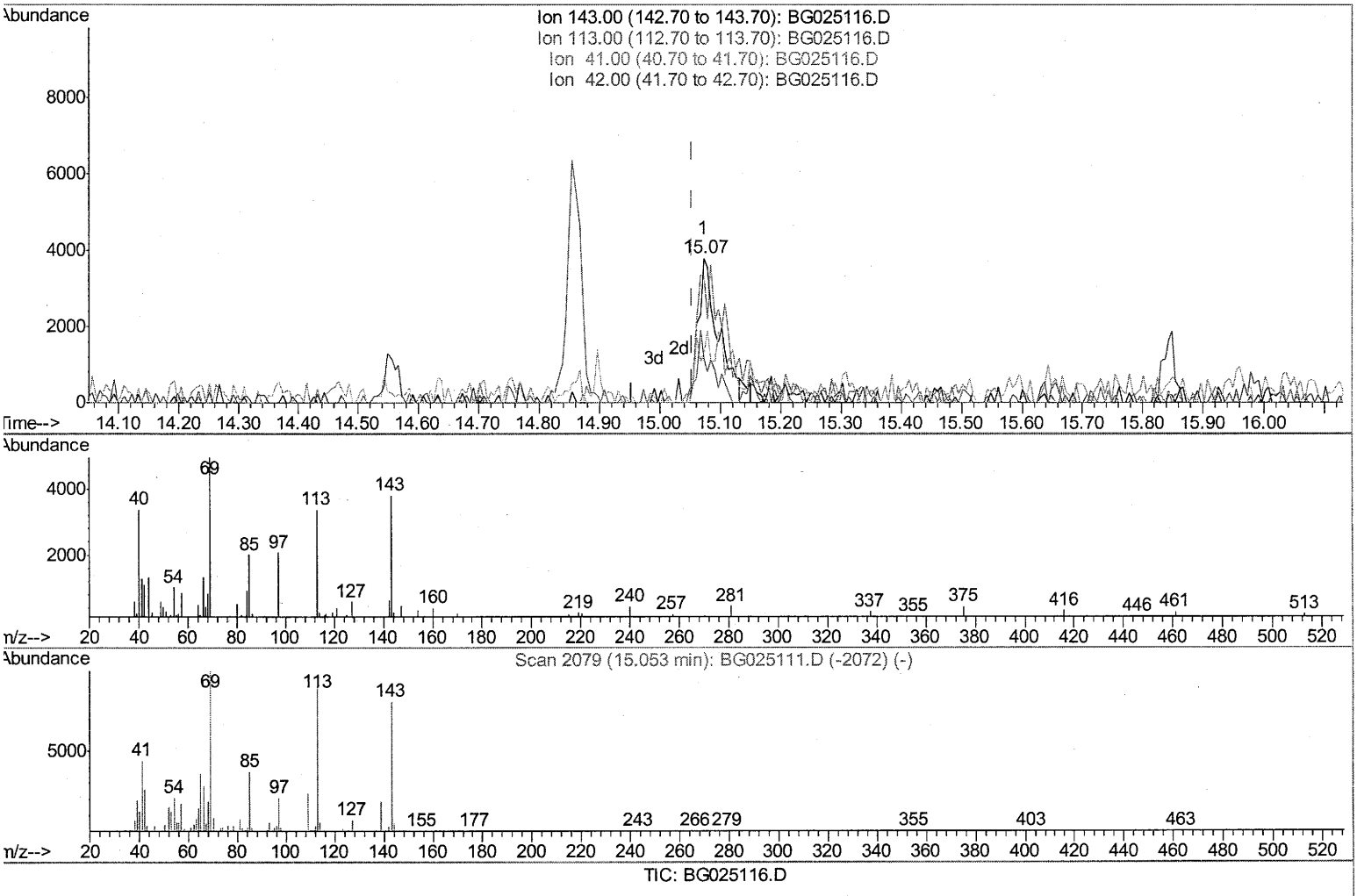
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 13 00:32:52 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM



TIC: BG025116.D

(51) 4-Nitrophenol-d4 (S)

15.073min (+0.020) 2.44ng/ul

response 8682

Ion	Exp%	Act%
143.00	100	100
113.00	117.30	88.90#
41.00	58.00	34.46#
42.00	42.20	29.40#

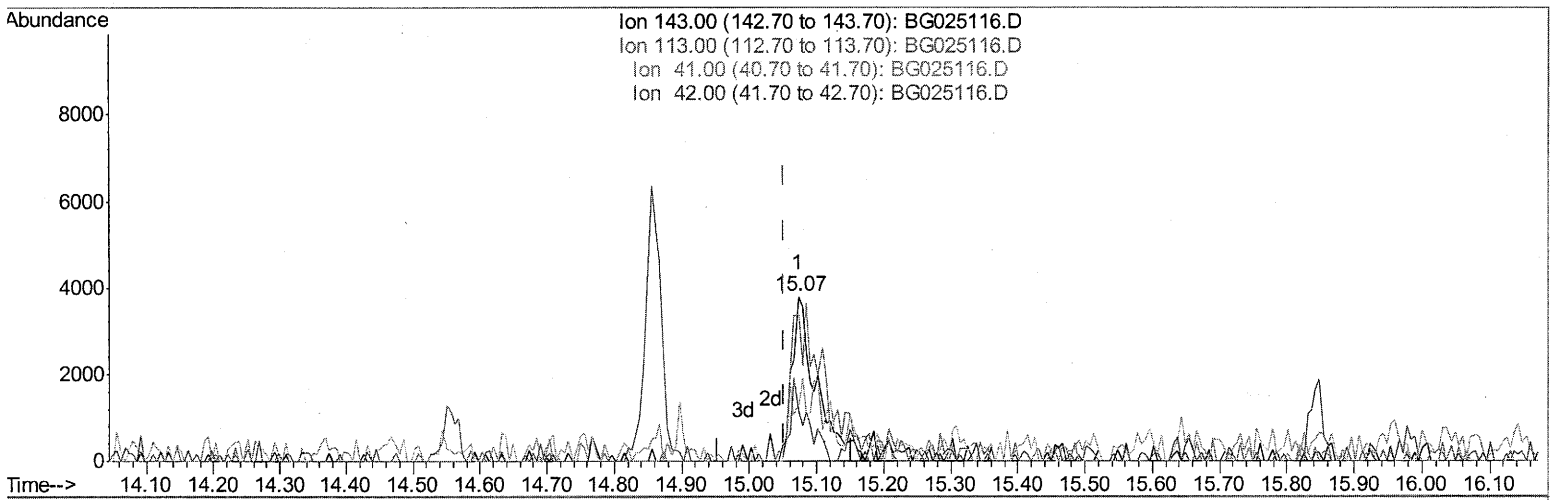
Quantitation Report (Qedit)

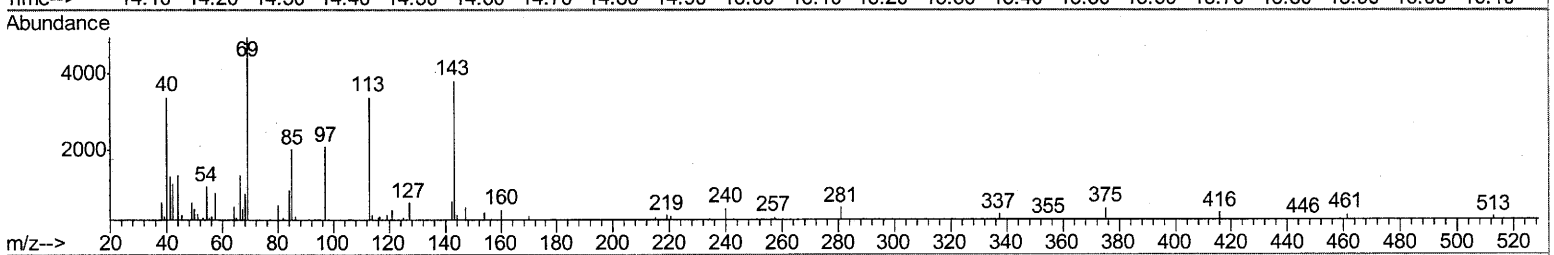
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

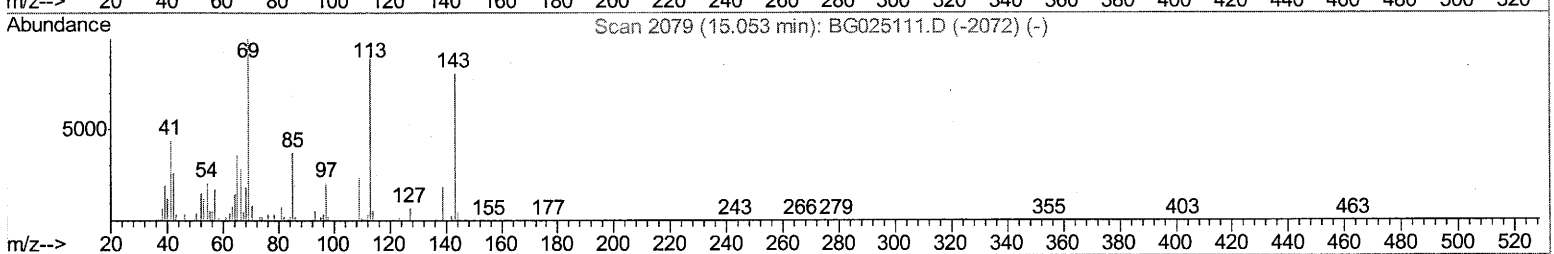
Quant Time: Dec 13 00:32:52 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM







TIC: BG025116.D

(51) 4-Nitrophenol-d4 (S)

15.073min (+0.020) 2.67ng/ul m

response 9501

um
12/13/16

Ion	Exp%	Act%
143.00	100	100
113.00	117.30	88.90#
41.00	58.00	34.46#
42.00	42.20	29.40#

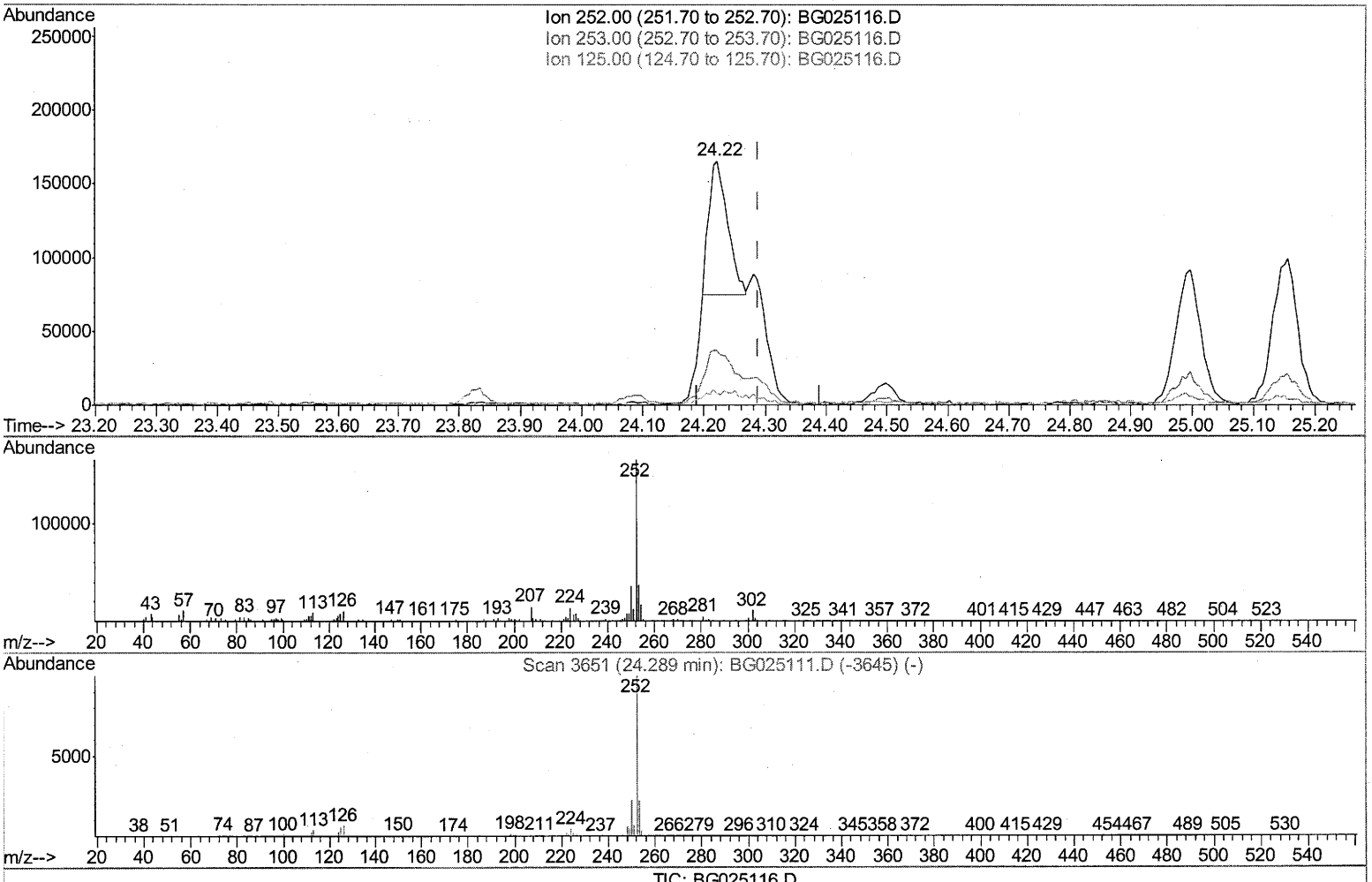
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 13 00:32:52 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM



(86) Benzo(k)fluoranthene

24.221min (-0.068) 5.46ng/ul

response 193286

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	22.91
125.00	5.10	4.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 13 00:32:52 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
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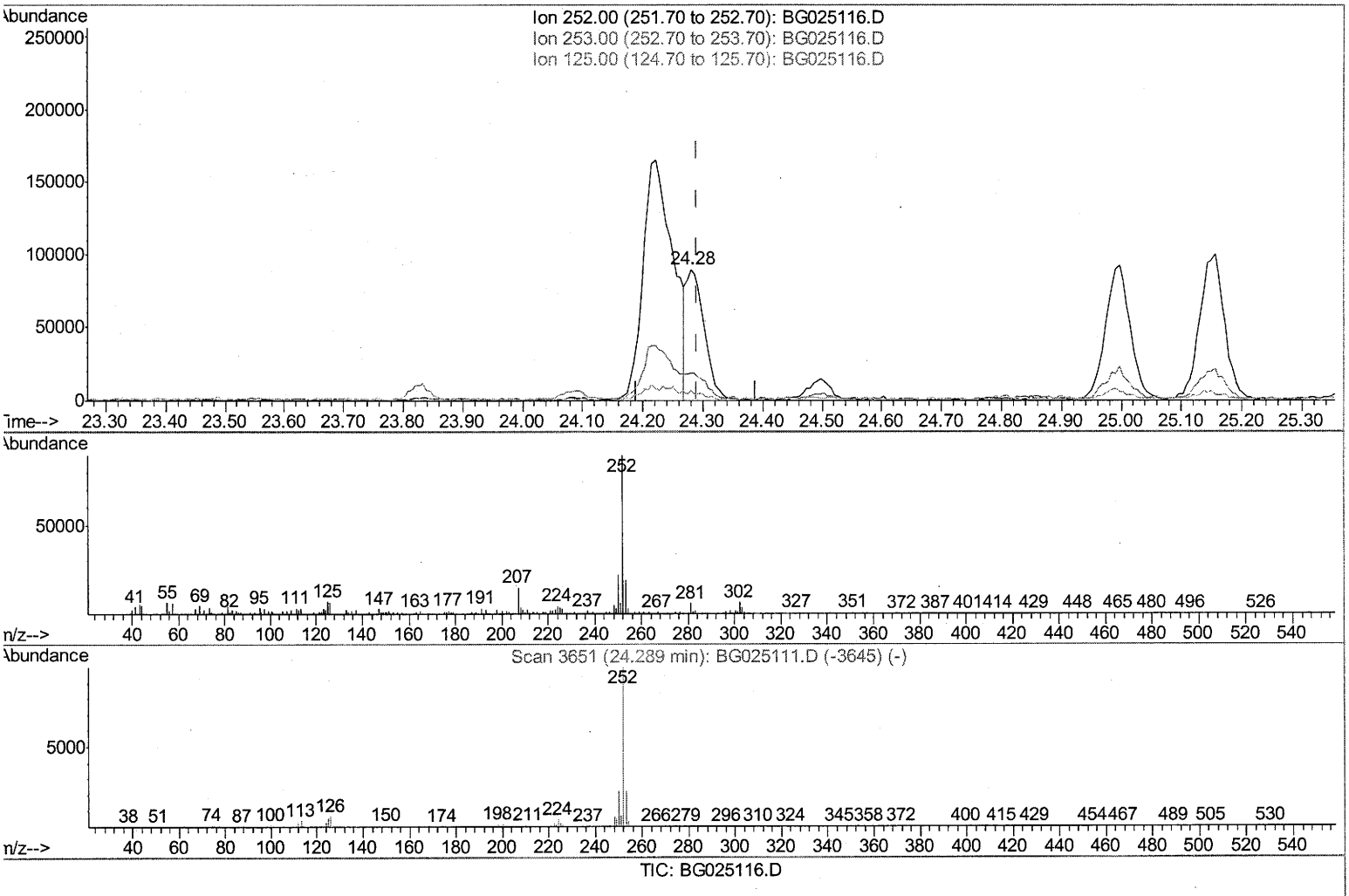


TIC: BG025116.D

(86) Benzo(k)fluoranthene

24.280min (-0.010) 5.28ng/ul m UM 12/13/16

response 187070

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	21.37
125.00	5.10	8.06#
0.00	0.00	0.00

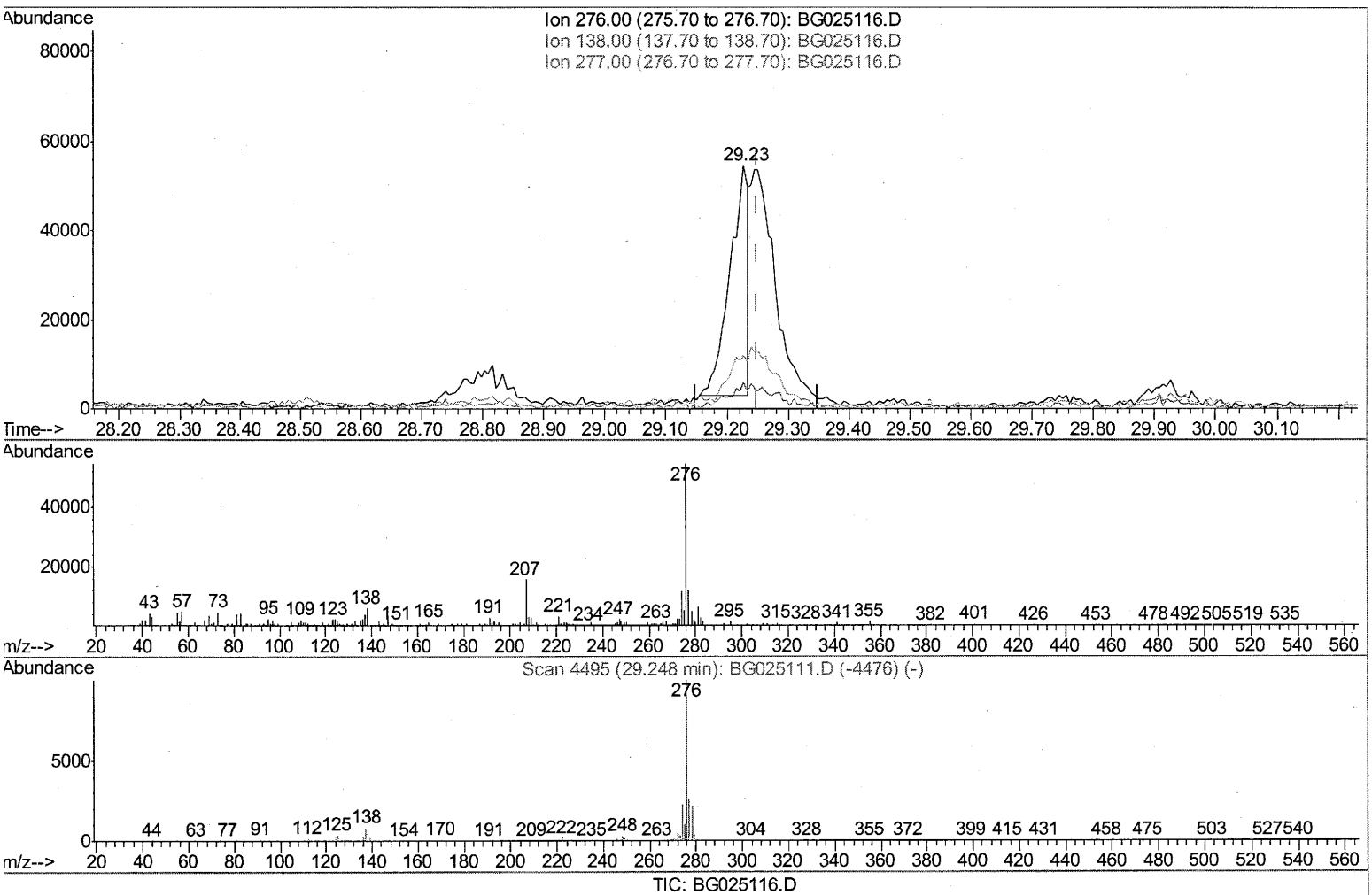
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 13 00:32:52 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM



TIC: BG025116.D

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

29.227min (-0.021) 2.34ng/ul

response 104001

Ion	Exp%	Act%
276.00	100	100
138.00	10.30	11.09
277.00	23.30	22.05
0.00	0.00	0.00

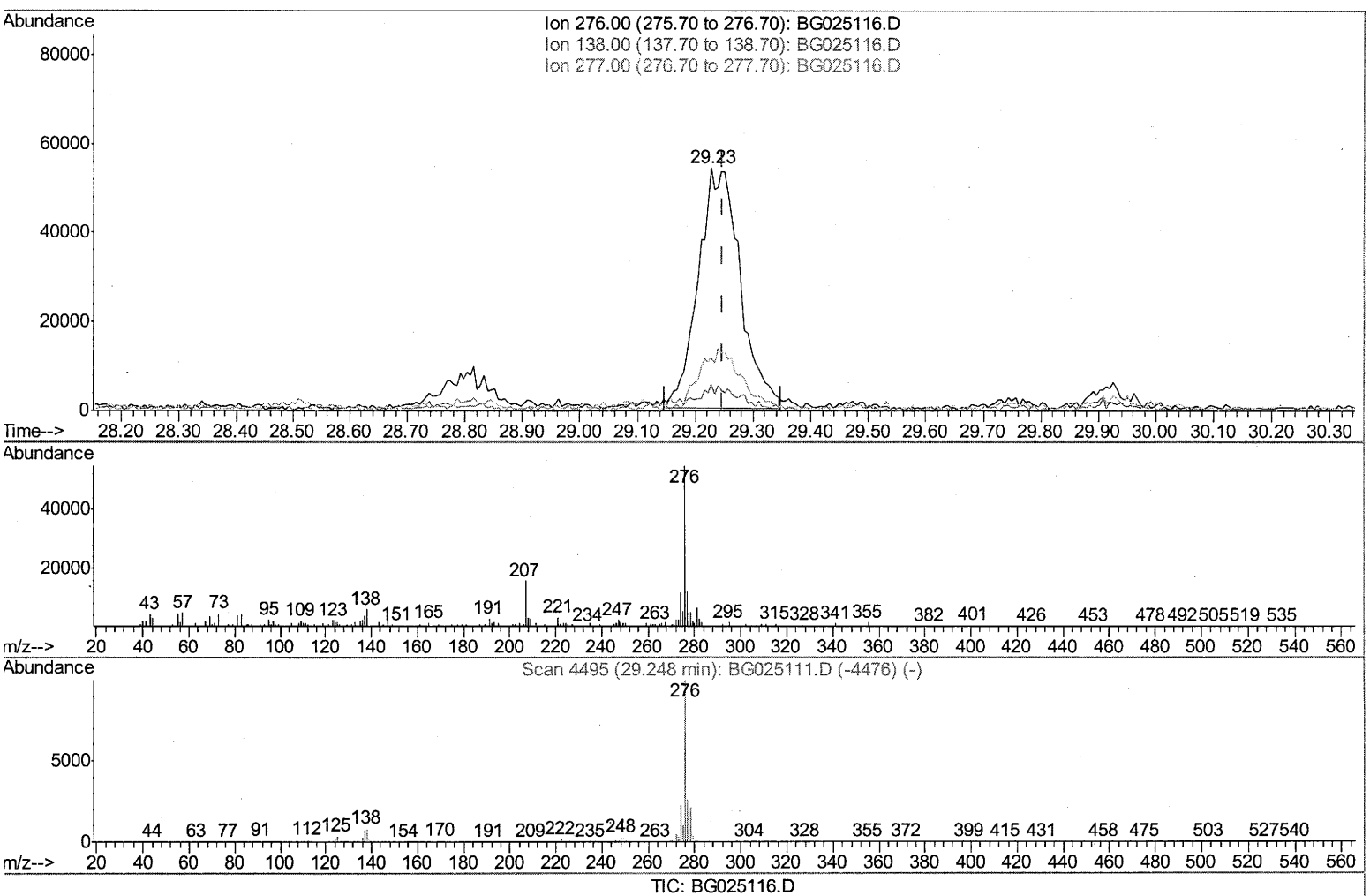
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 13 00:32:52 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM



TIC: BG025116.D

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

29.227min (-0.021) 6.13ng/ul m

response 272632

Ion	Exp%	Act%
276.00	100	100
138.00	10.30	11.09
277.00	23.30	22.05
0.00	0.00	0.00

UM
12/13/16

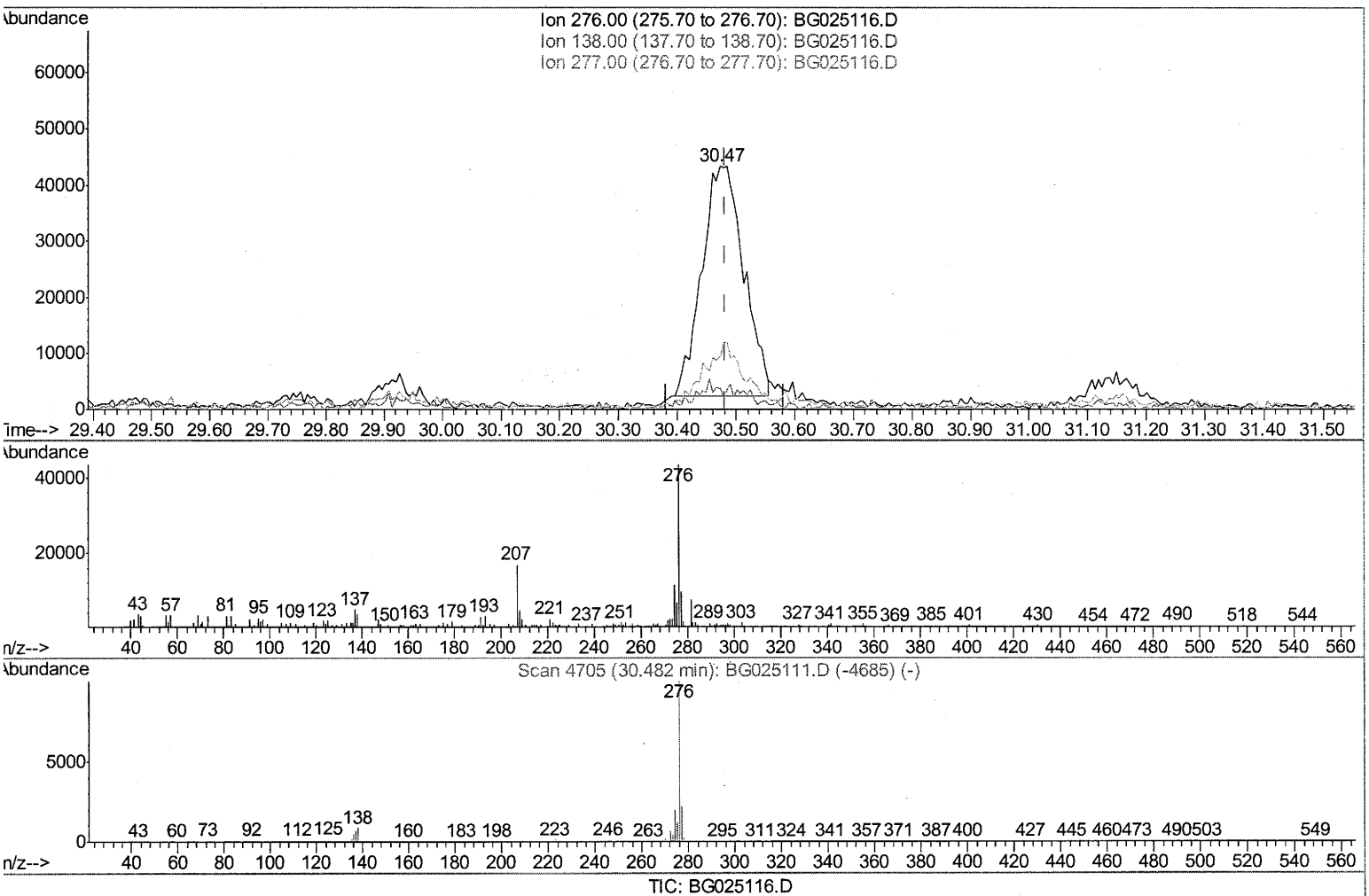
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 13 00:32:52 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM



TIC: BG025116.D

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

30.472min (-0.010) 5.49ng/ul

response 203816

Ion	Exp%	Act%
276.00	100	100
138.00	10.70	8.45#
277.00	22.00	22.21
0.00	0.00	0.00

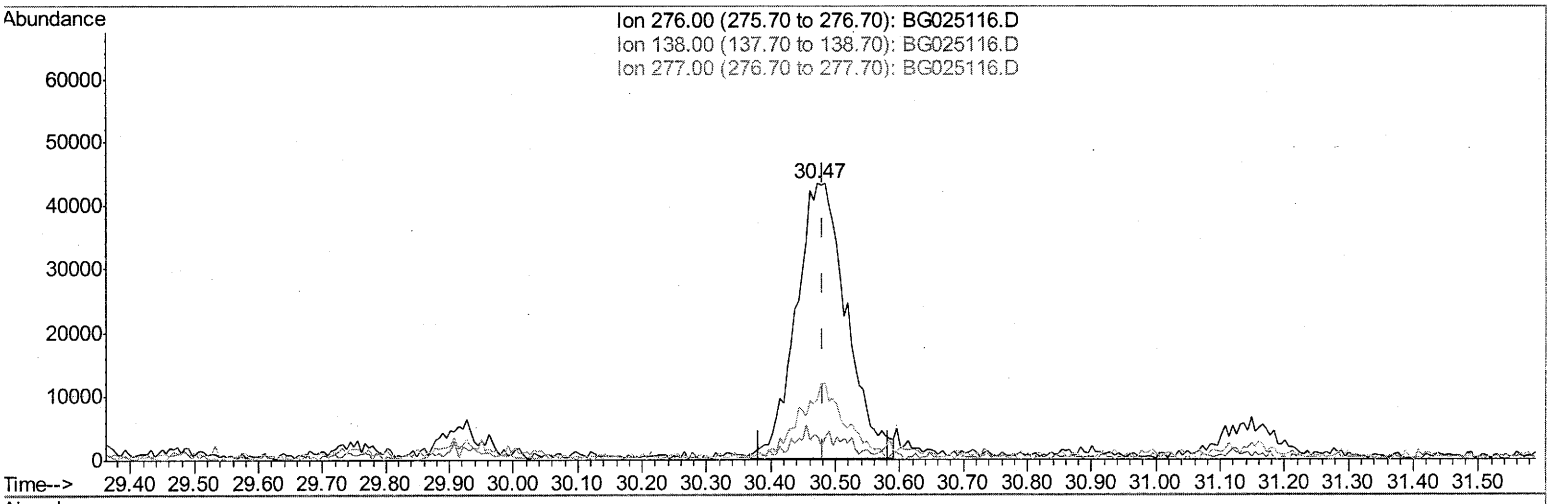
Quantitation Report (Qedit)

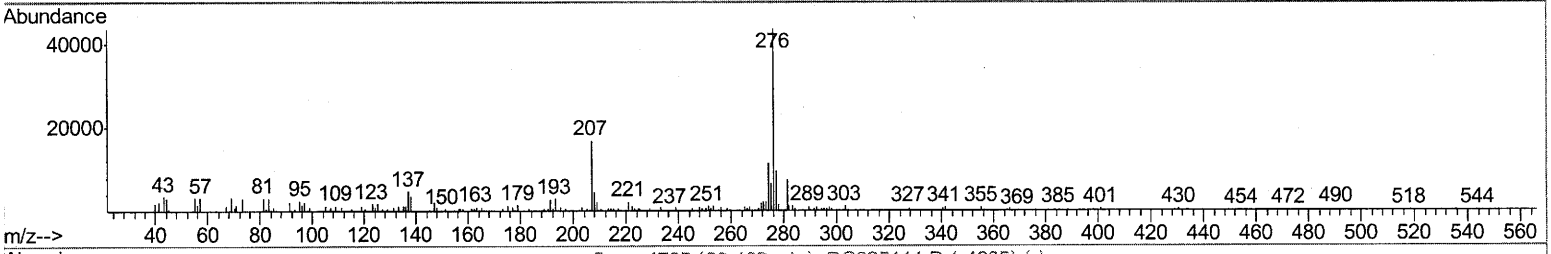
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

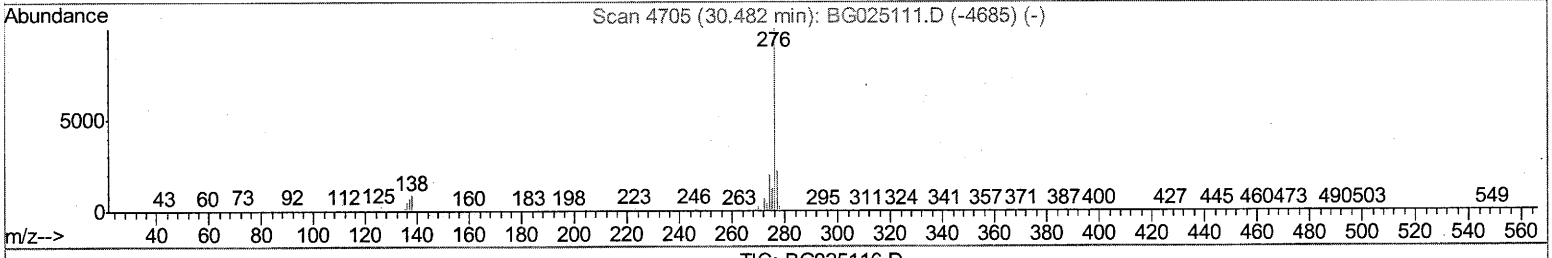
Quant Time: Dec 13 00:32:52 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM







TIC: BG025116.D

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

30.472min (-0.010) 6.35ng/ul m

response 235750

UM
12/13/16

Ion	Exp%	Act%
276.00	100	100
138.00	10.70	8.45#
277.00	22.00	22.21
0.00	0.00	0.00

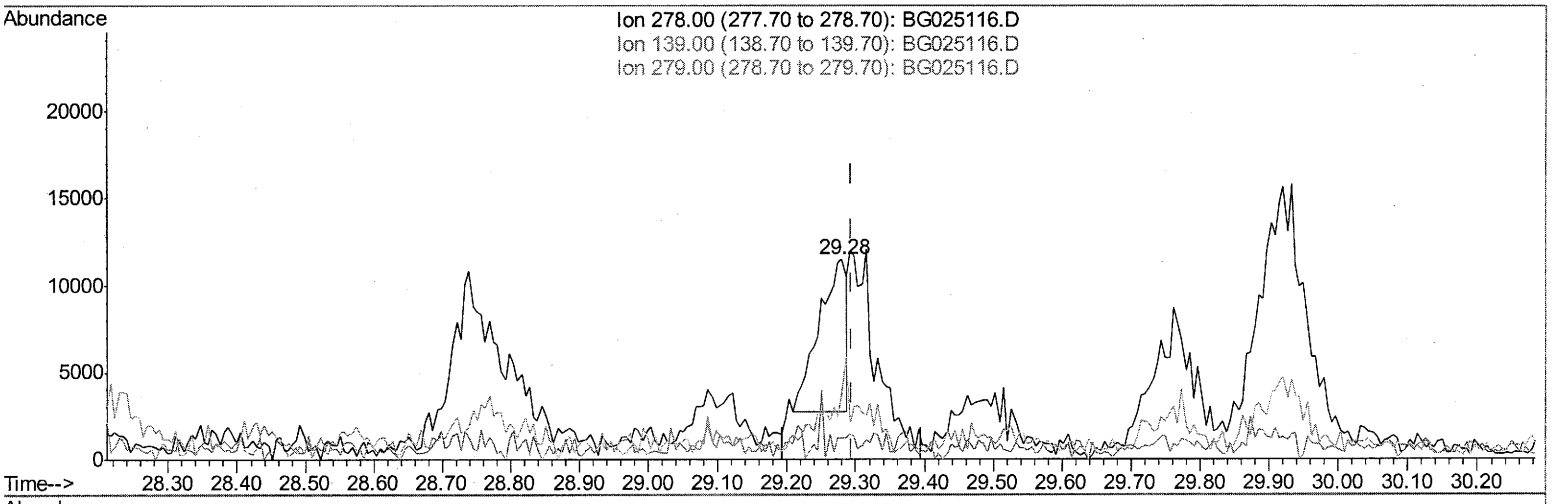
Quantitation Report (Qedit)

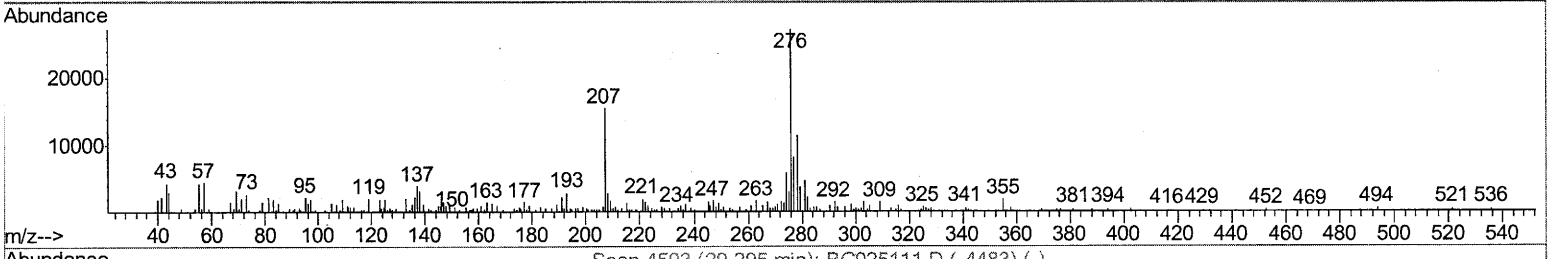
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

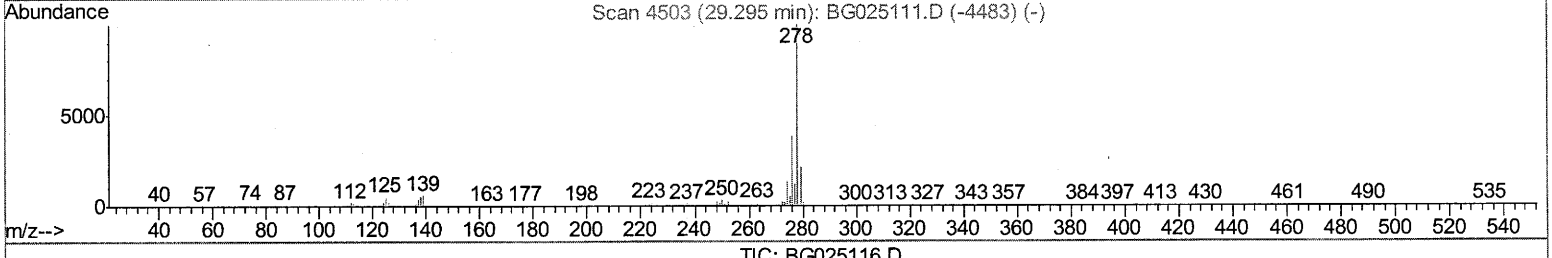
Quant Time: Dec 13 00:53:27 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM







TIC: BG025116.D

(90) Dibenzo(a,h)anthracene

29.280min (-0.016) 0.64ng/ul

response 23871

Ion	Exp%	Act%
278.00	100	100
139.00	8.40	10.56#
279.00	26.10	32.99#
0.00	0.00	0.00

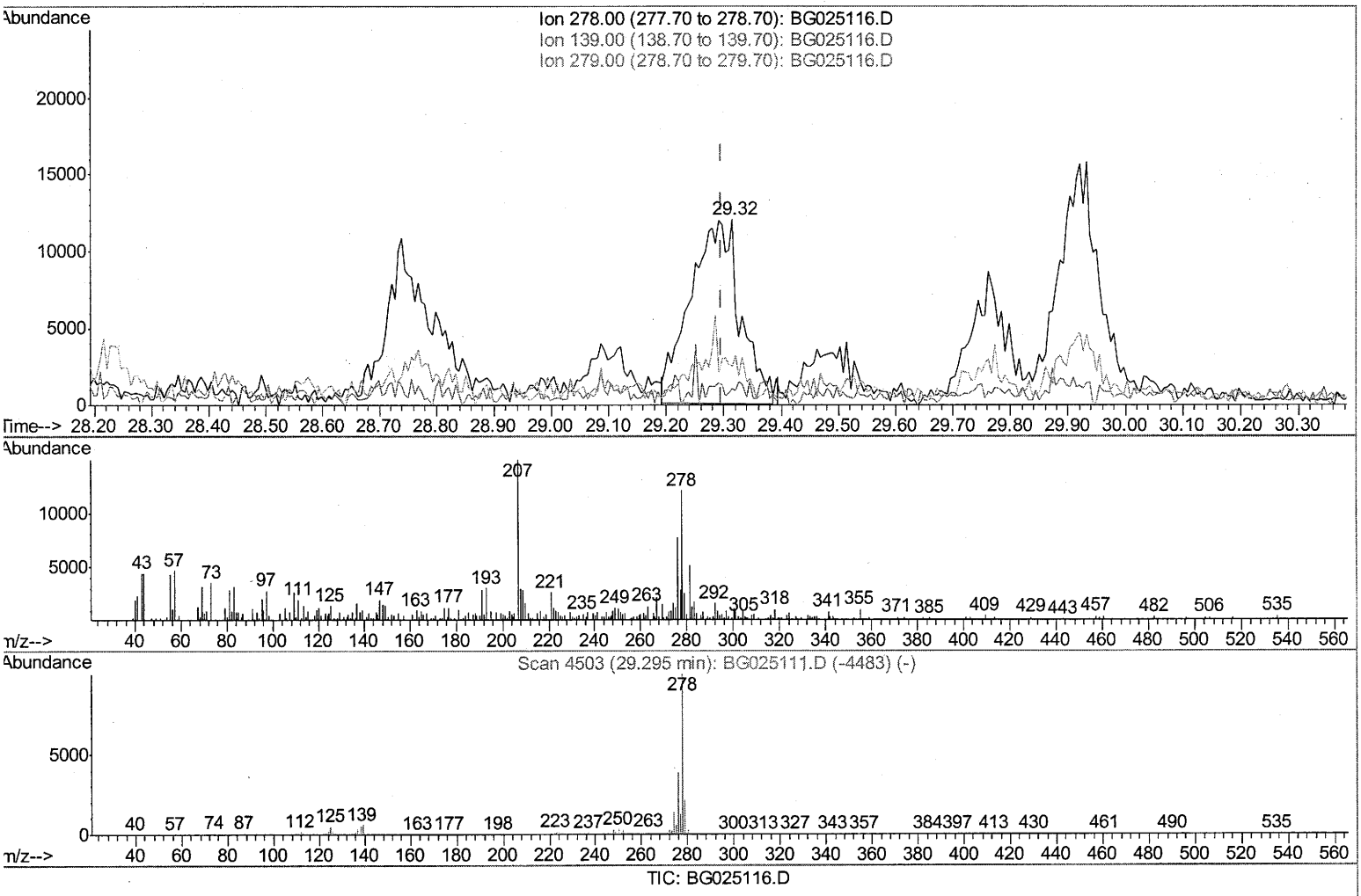
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 13 00:53:27 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
DA8E0

Manual Integrations APPROVED
sohil
12/13/2016 6:06:41 PM



TIC: BG025116.D

(90) Dibenzo(a,h)anthracene

29.315min (+0.020) 1.91ng/ul m UM

response 71457 12/13/16

Ion	Exp%	Act%
278.00	100	100
139.00	8.40	8.75
279.00	26.10	21.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
Data File : BG025116.D
Acq On : 12 Dec 2016 16:07
Operator : UM/SJ
Sample : H5860-13 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 13 00:54:02 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Dec 13 00:29:17 2016
Response via : Initial Calibration

Instrument : BNA_G
ClientSampleId : DA8E0

Manual Integrations APPROVED
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12/13/2016 6:06:41 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) 1,4-Dichlorobenzene-d4	8.23	152	86348	20.00	ng/ul	0.00	
18) Naphthalene-d8	11.07	136	378096	20.00	ng/ul	0.00	
35) Acenaphthene-d10	14.86	164	300949	20.00	ng/ul	0.00	
61) Phenanthrene-d10	17.61	188	632787	20.00	ng/ul	0.00	
75) Chrysene-d12	21.89	240	726399	20.00	ng/ul	0.00	
83) Perylene-d12	25.31	264	751024	20.00	ng/ul	0.00	
System Monitoring Compounds							
3) 1,4-Dioxane-d8	3.59	96	1288	0.77	ng/uL	0.00	
5) Phenol-d5	7.38	99	34735	4.66	ng/ul	0.00	
7) Bis-(2-Chloroethyl)ether-d	7.55	67	21412	4.65	ng/ul	0.00	
9) 2-Chlorophenol-d4	7.77	132	23702	4.55	ng/ul	0.00	
13) 4-Methylphenol-d8	8.94	113	26926	4.33	ng/ul	0.00	
19) Nitrobenzene-d5	9.42	128	14322	5.35	ng/ul	0.00	
22) 2-Nitrophenol-d4	10.14	143	12764	3.82	ng/ul	0.00	
26) 2,4-Dichlorophenol-d3	10.68	165	26641	4.15	ng/ul	0.00	
29) 4-Chloroaniline-d4	11.21	131	15088	2.39	ng/ul	0.00	
43) Dimethylphthalate-d6	14.25	166	95397	4.61	ng/ul	0.00	
46) Acenaphthylene-d8	14.56	160	107627	4.75	ng/ul	0.00	
51) 4-Nitrophenol-d4	15.07	143	9501m	2.67	ng/ul	0.02	UM 12/13/16
57) Fluorene-d10	15.85	176	97620	5.01	ng/ul	0.00	
62) 4,6-Dinitro-2-methylphenol	15.97	200	10064	2.57	ng/ul	0.00	
70) Anthracene-d10	17.70	188	137450	5.15	ng/ul	0.00	
76) Pyrene-d10	19.97	212	161450	5.40	ng/ul	0.00	
87) Benzo(a)pyrene-d12	25.07	264	153619	5.05	ng/ul	0.00	
Target Compounds						Qvalue	
44) Dimethylphthalate	14.30	163	20860	1.03	ng/ul#	93	
69) Phenanthrene	17.65	178	259707	8.60	ng/ul	95	
72) Carbazole	18.00	167	45969	1.77	ng/ul#	86	
74) Fluoranthene	19.64	202	899418	25.06	ng/ul	99	
77) Pyrene	20.00	202	702406	20.12	ng/ul	98	
80) Benzo(a)anthracene	21.88	228	309606	8.20	ng/ul	99	
82) Chrysene	21.94	228	428345	12.13	ng/ul	96	
85) Benzo(b)fluoranthene	24.22	252	569449	15.29	ng/ul	99	
86) Benzo(k)fluoranthene	24.28	252	187070m	5.28	ng/ul		UM 12/13/16
88) Benzo(a)pyrene	25.16	252	280374	7.83	ng/ul#	97	
89) Indeno(1,2,3-cd)pyrene	29.23	276	272632m	6.13	ng/ul		
90) Dibenzo(a,h)anthracene	29.32	278	71457m	1.91	ng/ul		
91) Benzo(g,h,i)perylene	30.47	276	235750m	6.35	ng/ul		

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