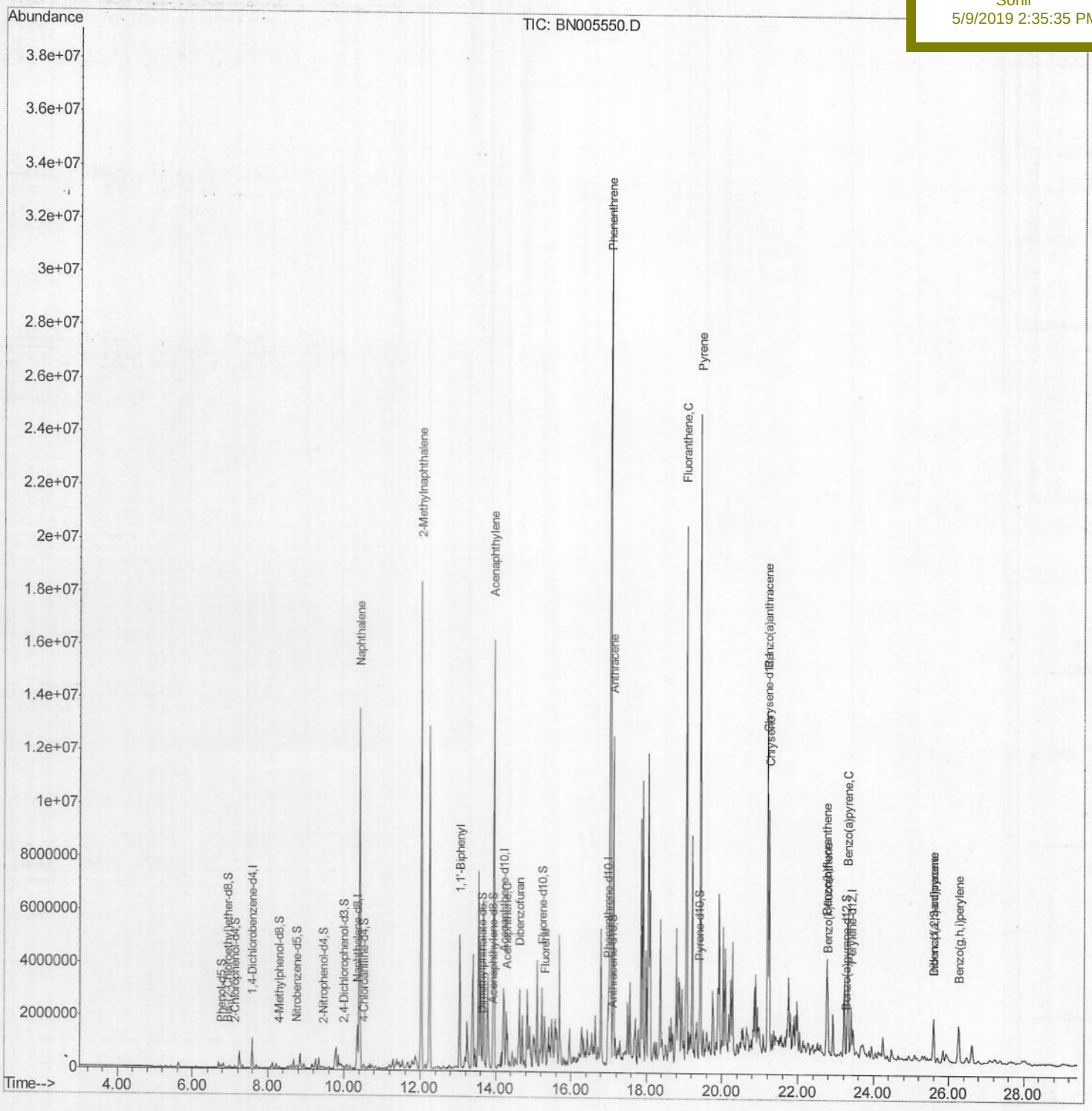
Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 06:41:45 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM



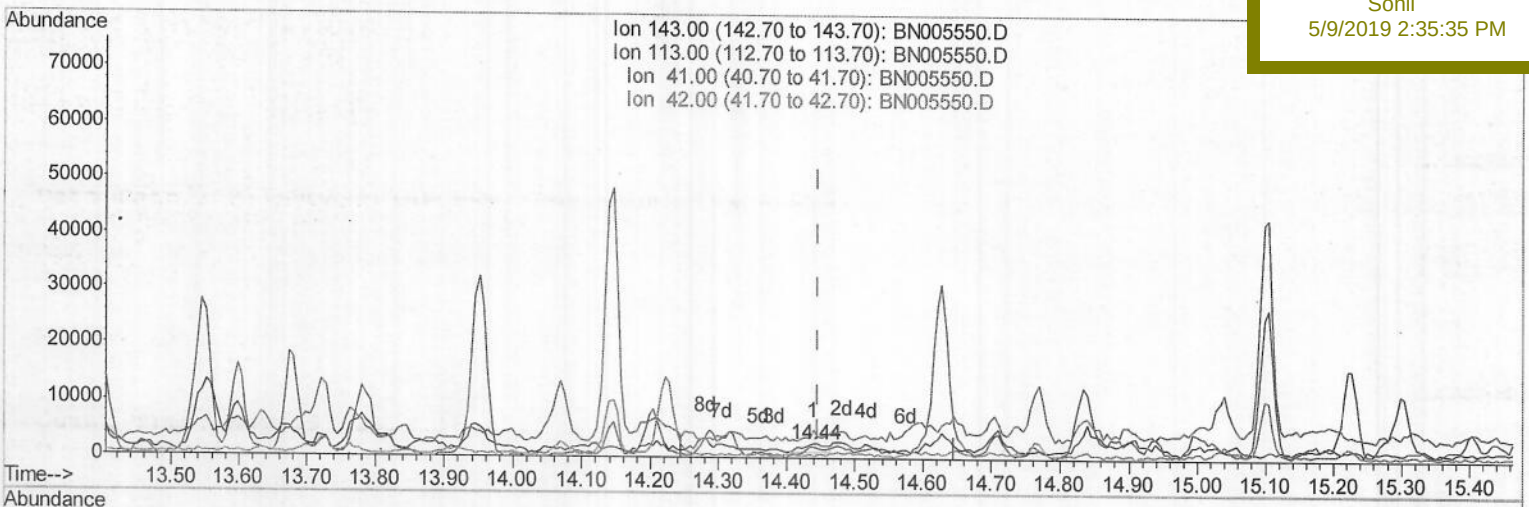
Quantitation Report (Qedit)

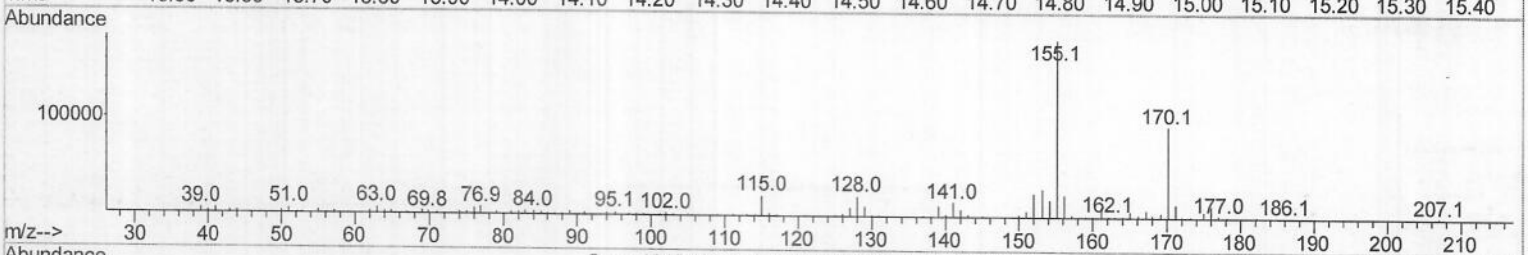
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

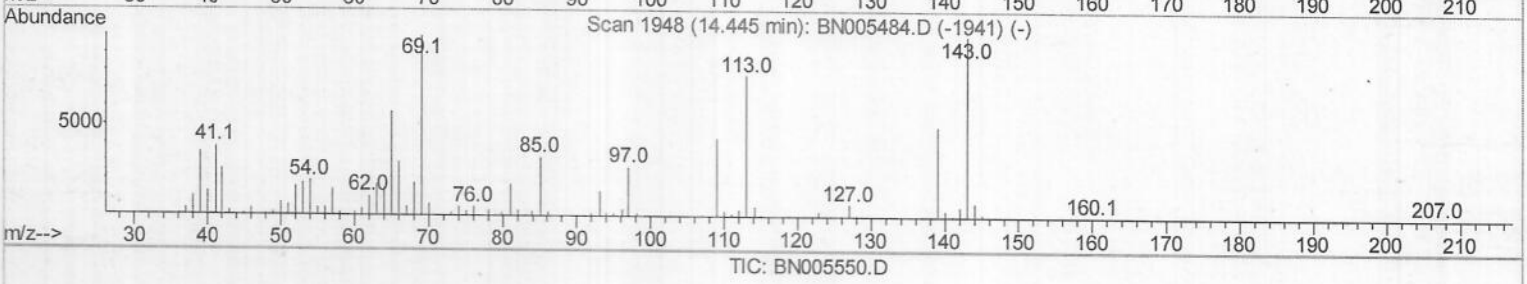
Quant Time: May 09 02:35:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM







TIC: BN005550.D

(51) 4-Nitrophenol-d4 (S)

14.439min (-0.006) 0.39ng/ul

response 3724

Ion	Exp%	Act%
143.00	100	100
113.00	82.50	79.80
41.00	47.90	193.58#
42.00	31.70	12.11#

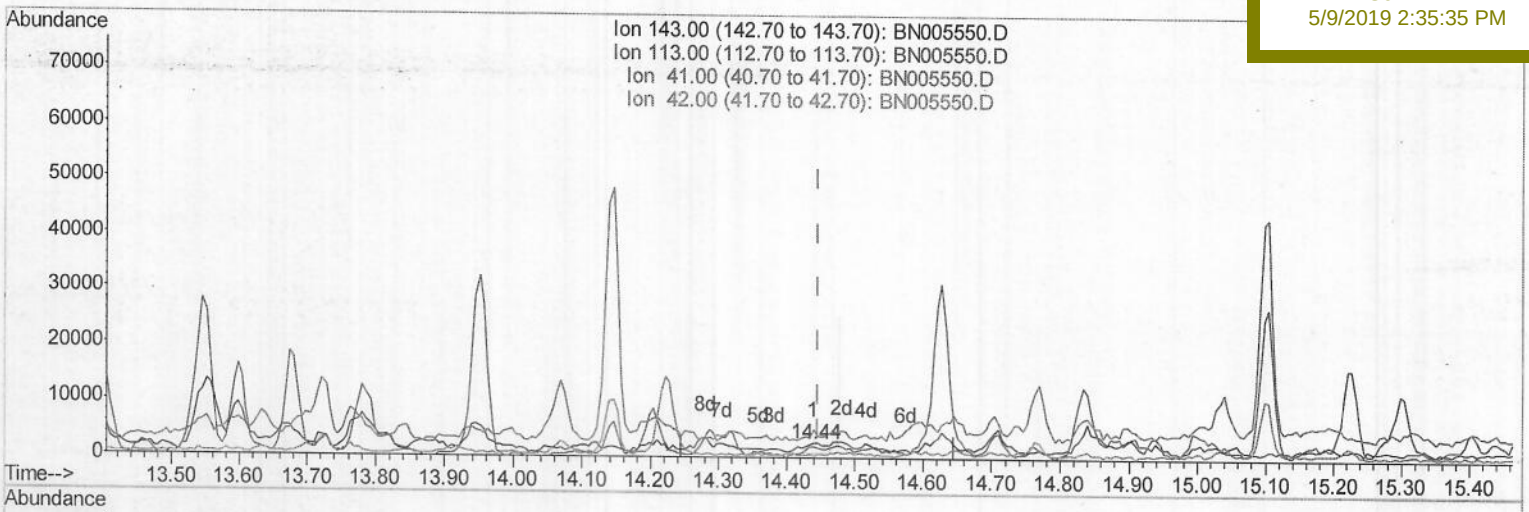
Quantitation Report (Qedit)

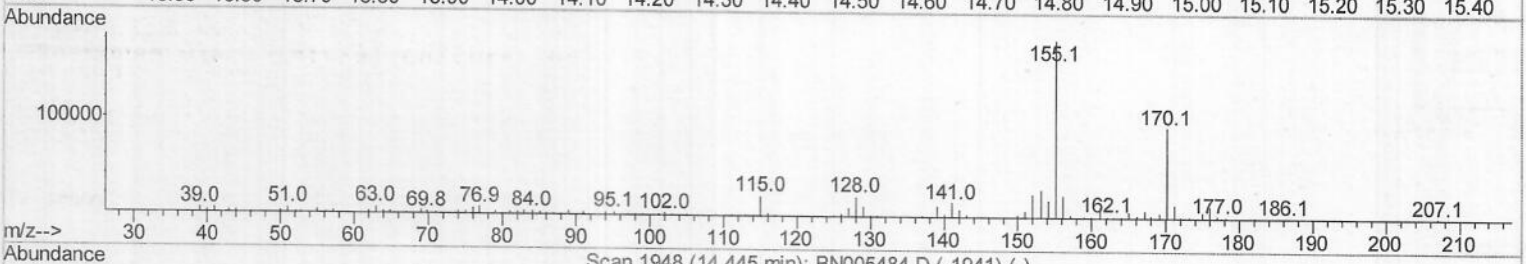
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

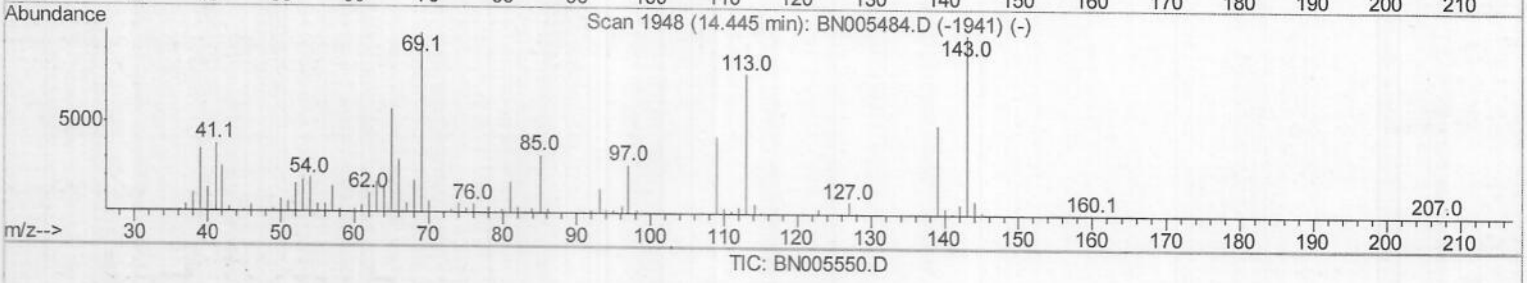
Quant Time: May 09 02:35:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM







TIC: BN005550.D

(51) 4-Nitrophenol-d4 (S)

14.439min (-0.006) 0.44ng/ul m)JU05/21/19

response 4201

Ion	Exp%	Act%
143.00	100	100
113.00	82.50	79.80
41.00	47.90	193.58#
42.00	31.70	12.11#

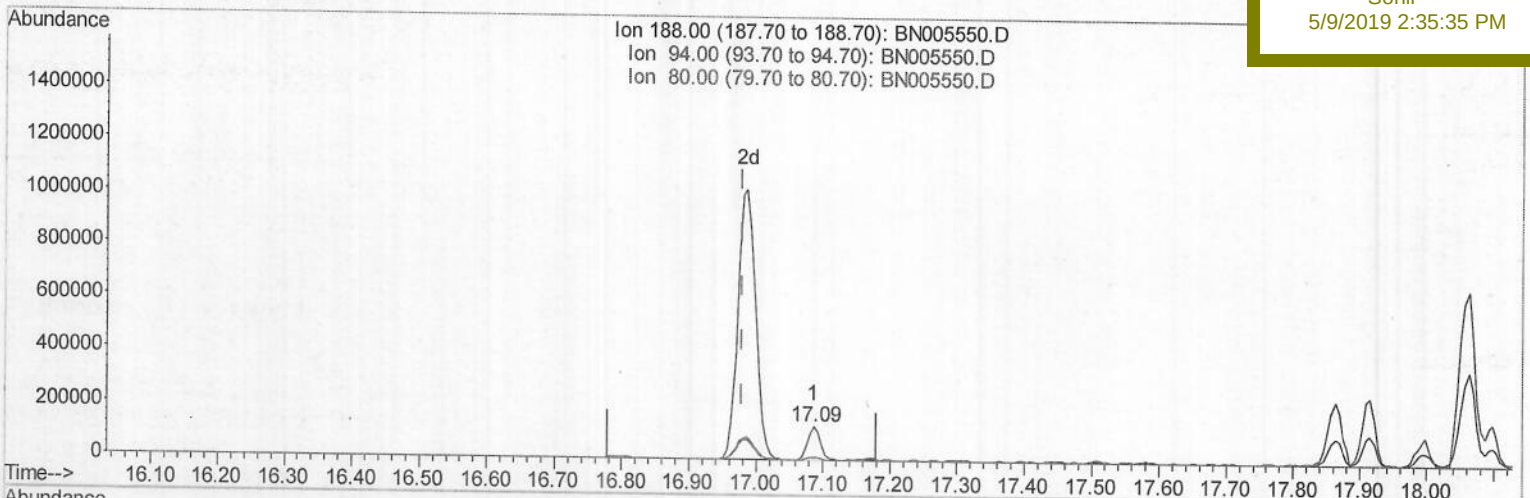
Quantitation Report (Qedit)

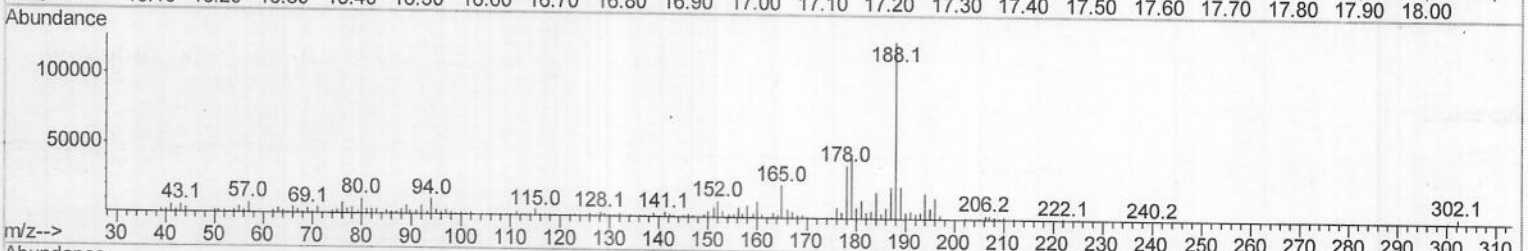
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

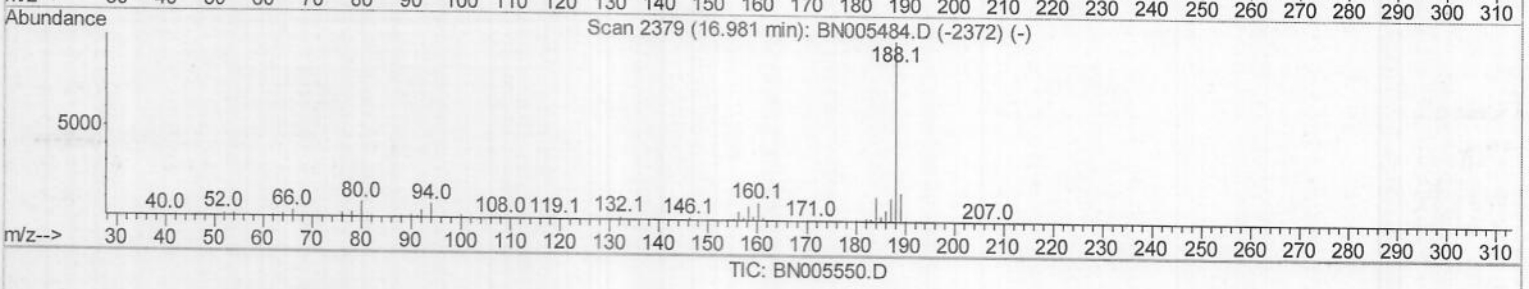
Quant Time: May 09 02:35:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM







TIC: BN005550.D

(61) Phenanthrene-d10 (I)

17.086min (+0.106) 20.00ng/ul

response 164031

Ion	Exp%	Act%
188.00	100	100
94.00	9.20	8.98
80.00	10.30	8.70
0.00	0.00	0.00

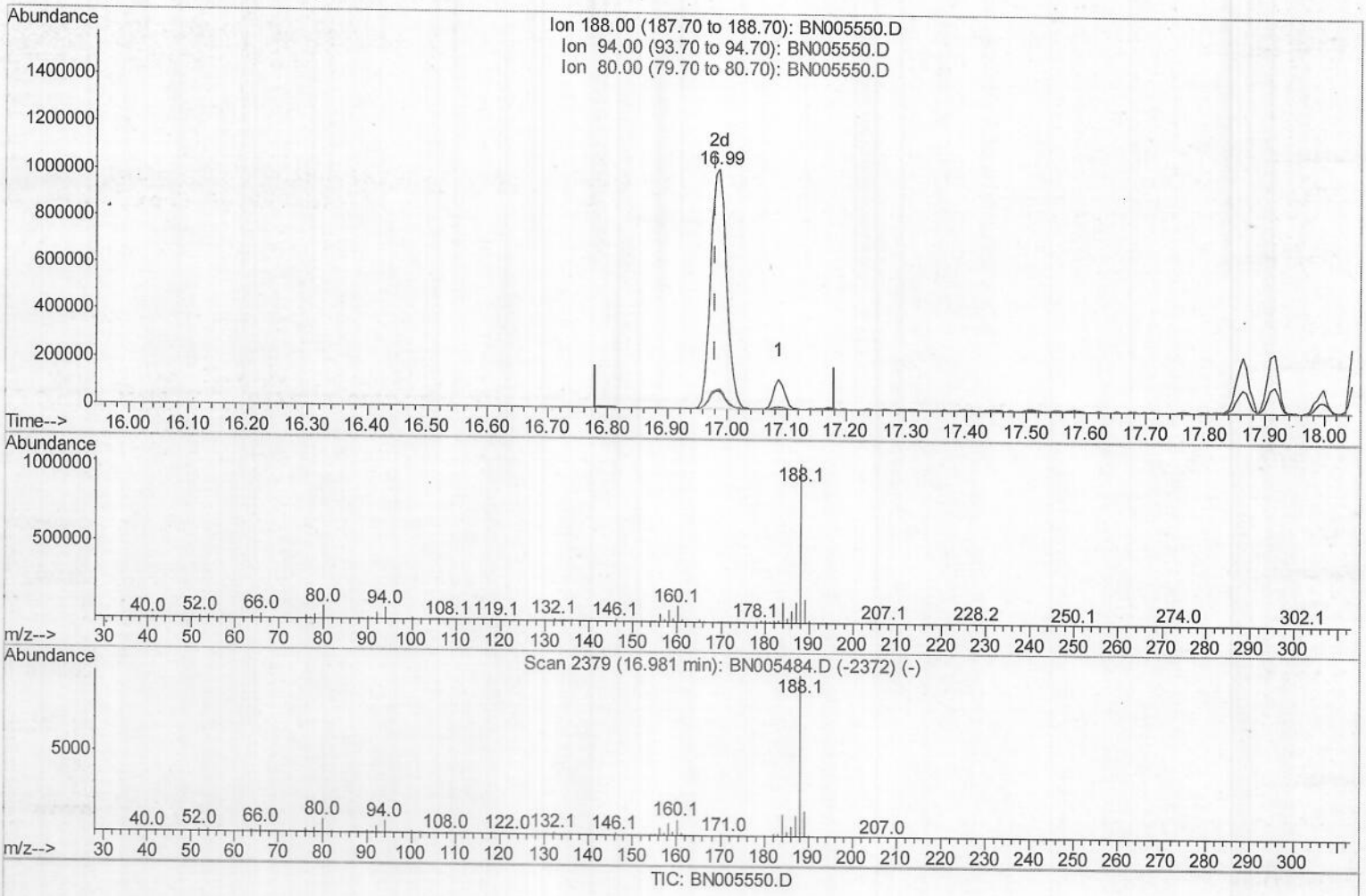
Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM

Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 02:35:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration



TIC: BN005550.D

(61) Phenanthrene-d10 (I)

16.986min (+0.006) 20.00ng/ul m JJU05/21/19

response 1870232

Ion	Exp%	Act%
188.00	100	100
94.00	9.20	7.24#
80.00	10.30	8.08#
0.00	0.00	0.00

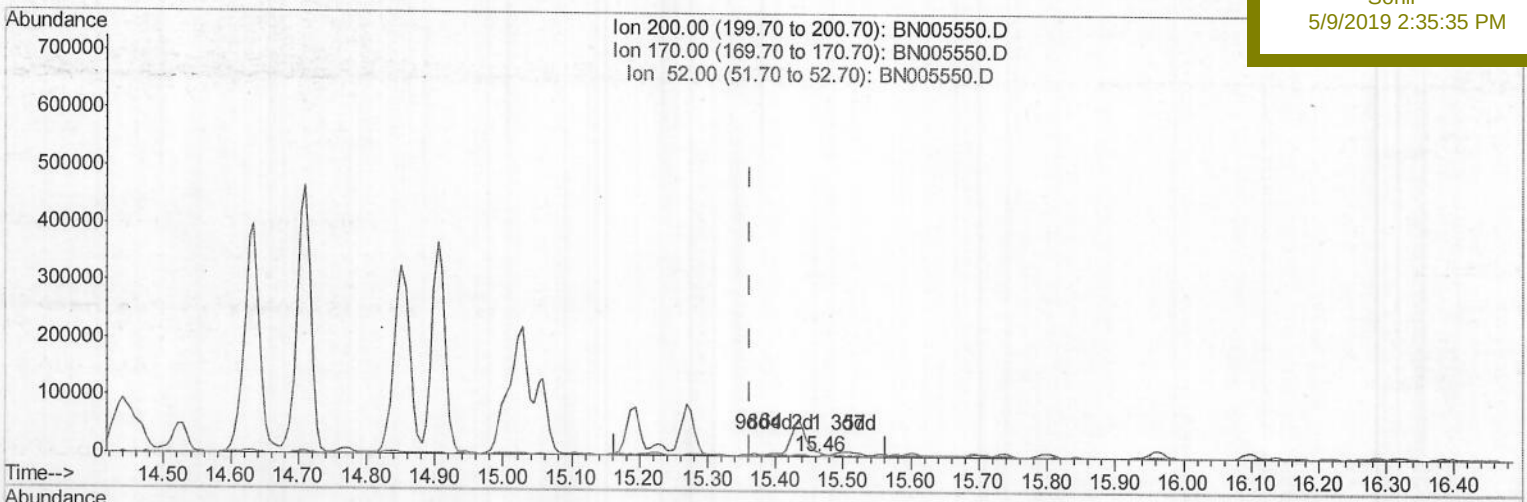
Quantitation Report (Qedit)

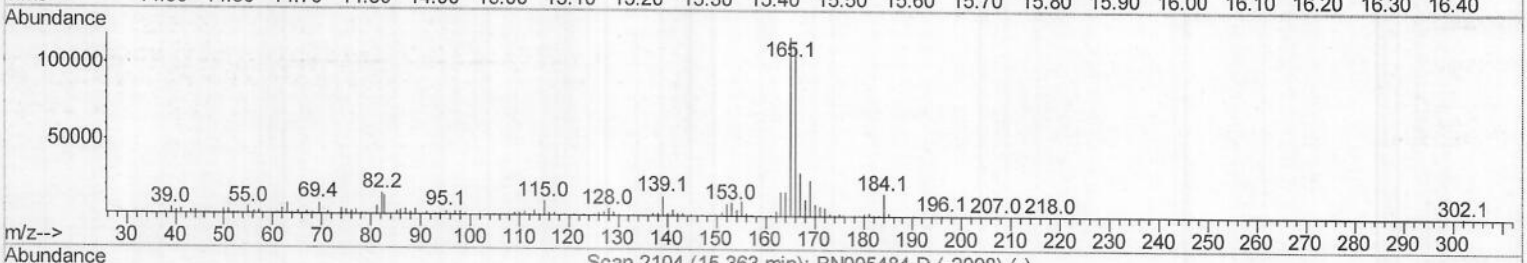
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

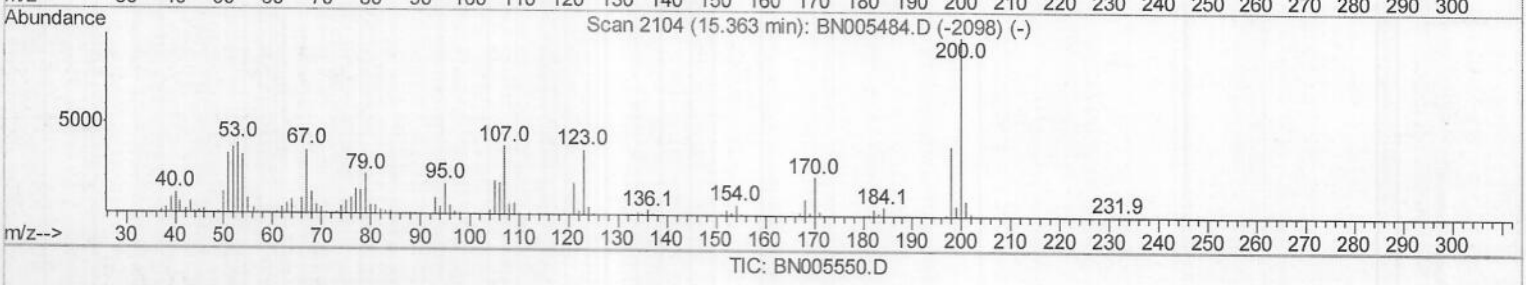
Quant Time: May 09 06:36:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM







TIC: BN005550.D

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

15.463min (+0.100) 0.12ng/ul

response 972

Ion	Exp%	Act%
200.00	100	100
170.00	22.60	1386.62#
52.00	49.60	125.29#
0.00	0.00	0.00

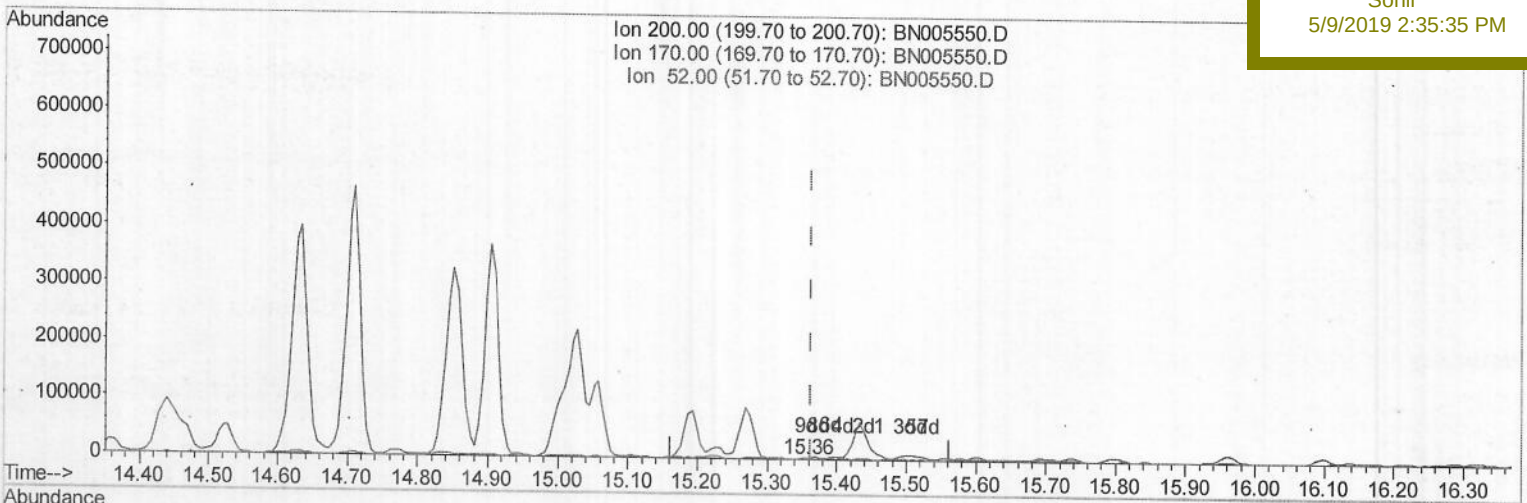
Quantitation Report (Qedit)

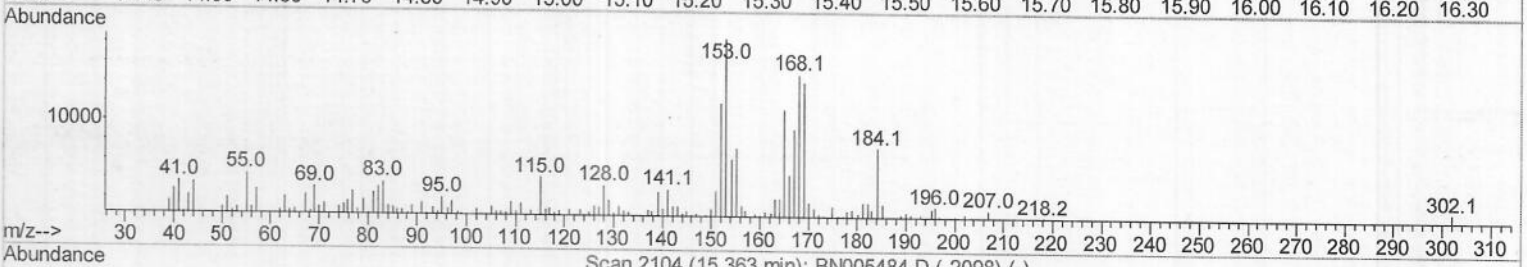
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

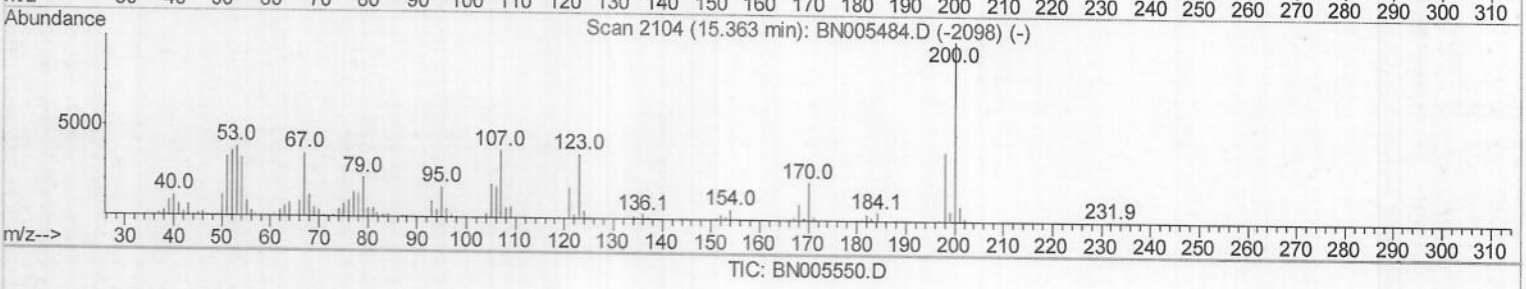
Quant Time: May 09 06:36:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM







TIC: BN005550.D

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

15.357min (-0.006) 0.03ng/ul m) JU 05/21/19

response 293

Ion	Exp%	Act%
200.00	100	100
170.00	22.60	418.01#
52.00	49.60	124.48#
0.00	0.00	0.00

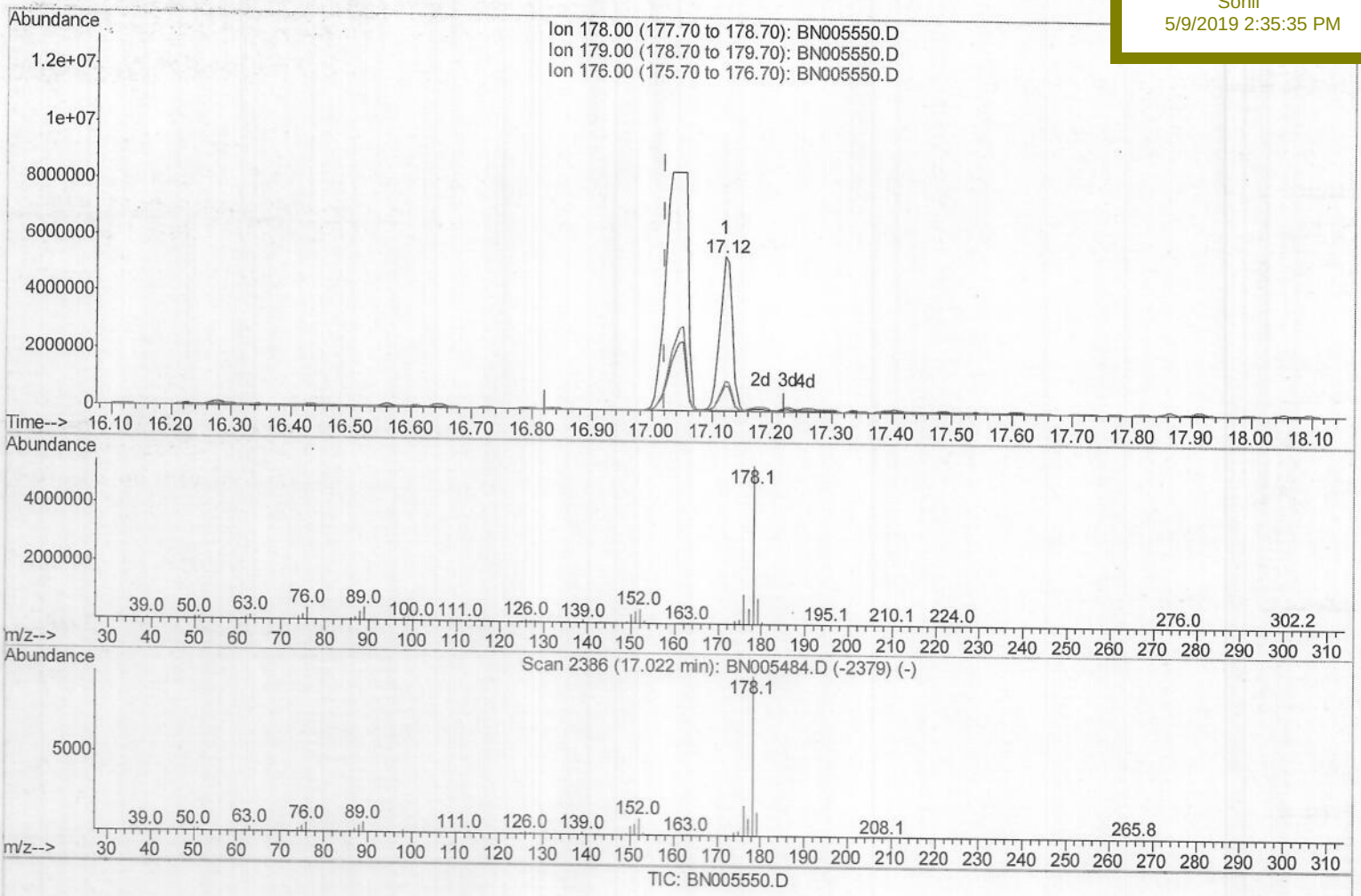
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 06:36:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM



TIC: BN005550.D

(69) Phenanthrene

17.122min (+0.100) 85.11ng/ul

response 7751720

Ion	Exp%	Act%
178.00	100	100
179.00	15.30	16.16
176.00	18.90	19.18
0.00	0.00	0.00

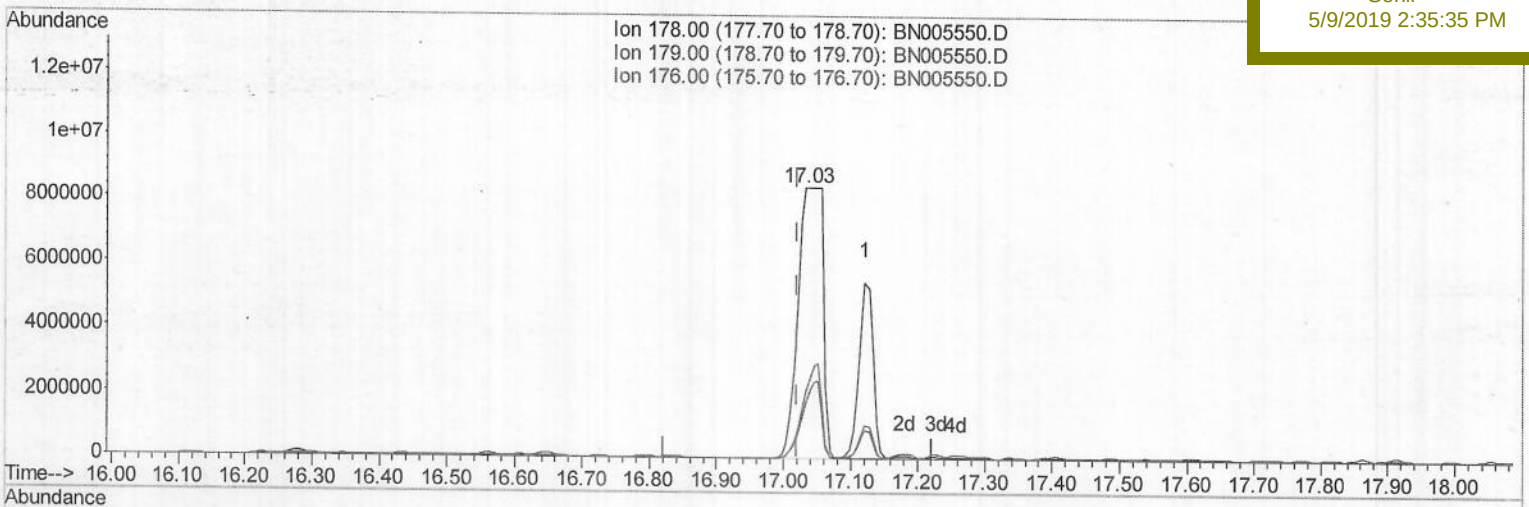
Quantitation Report (Qedit)

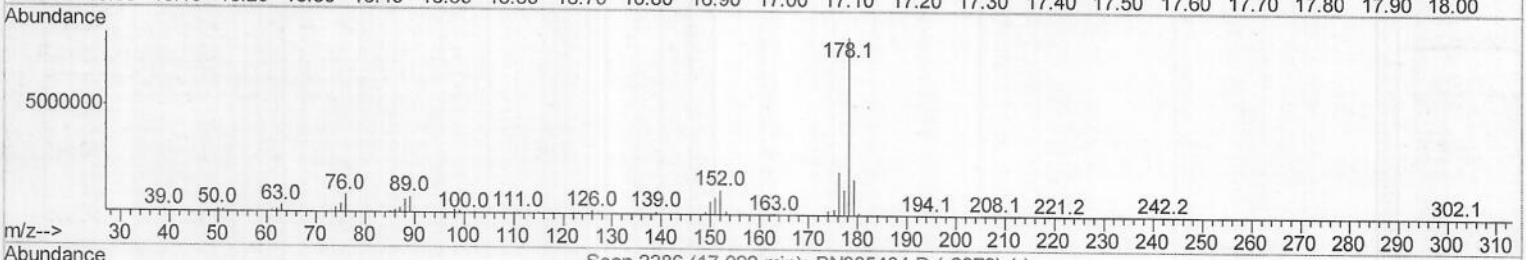
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

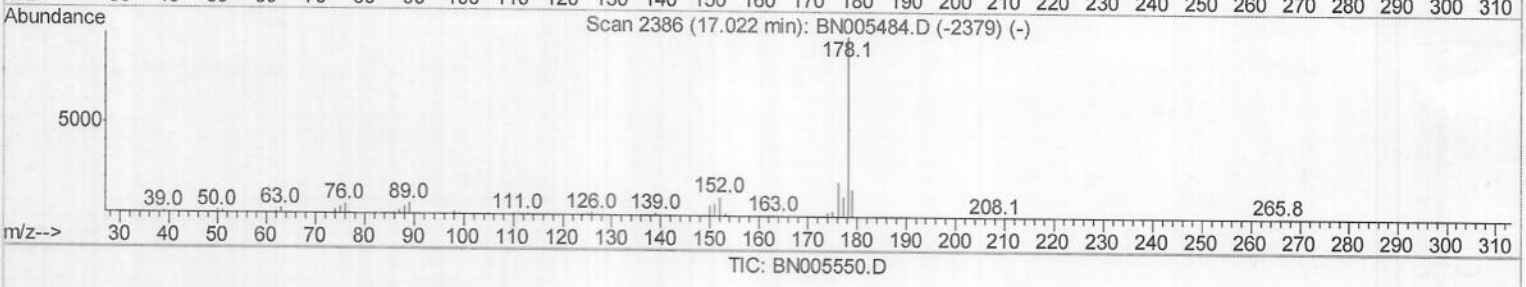
Quant Time: May 09 06:36:49 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM







TIC: BN005550.D

(69) Phenanthrene

17.033min (+0.012) 238.80ng/ul m) 5005/21/19

response 21750893

Ion	Exp%	Act%
178.00	100	100
179.00	15.30	20.27#
176.00	18.90	24.43#
0.00	0.00	0.00

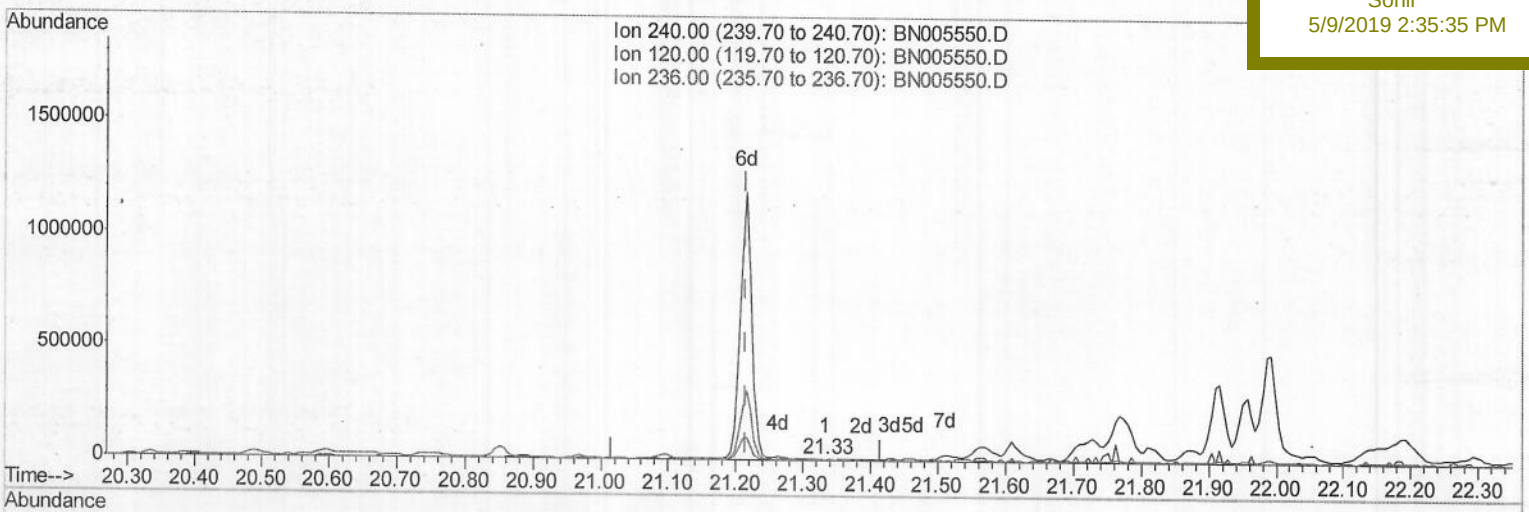
Quantitation Report (Qedit)

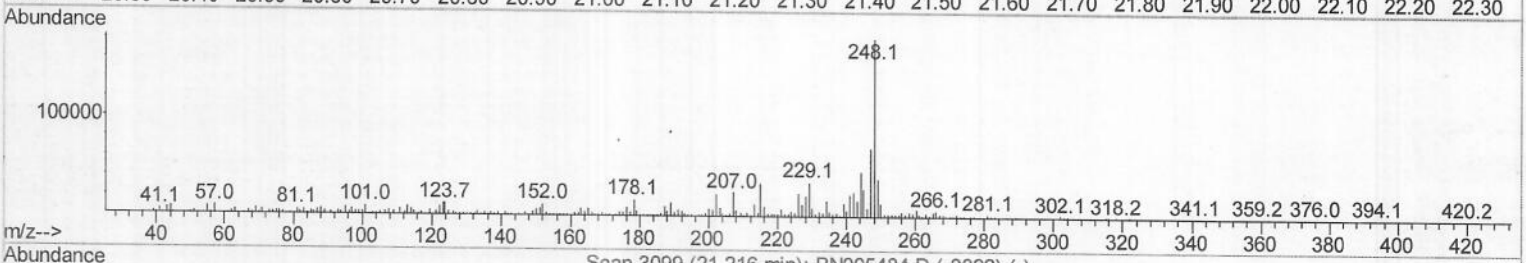
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

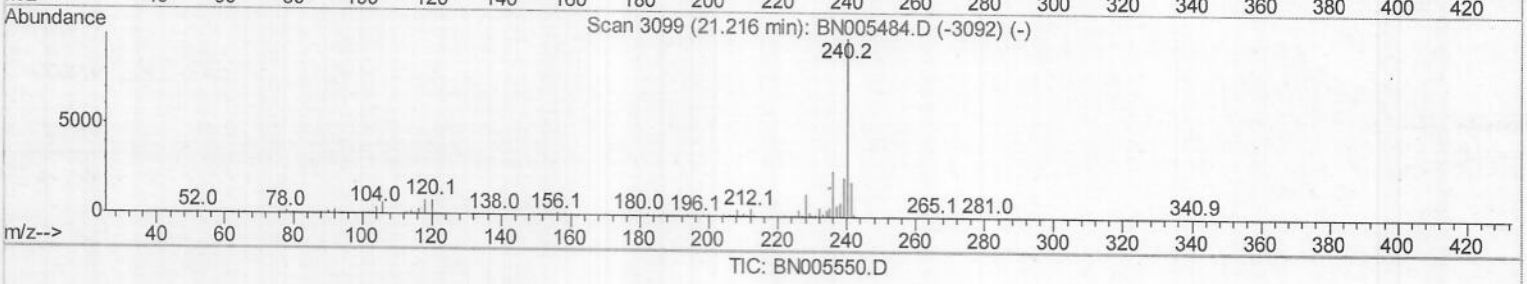
Quant Time: May 09 06:38:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM







TIC: BN005550.D

(77) Chrysene-d12 (I)

21.333min (+0.118) 20.00ng/ul

response 3327

Ion	Exp%	Act%
240.00	100	100
120.00	10.90	0.00#
236.00	26.10	35.07#
0.00	0.00	0.00

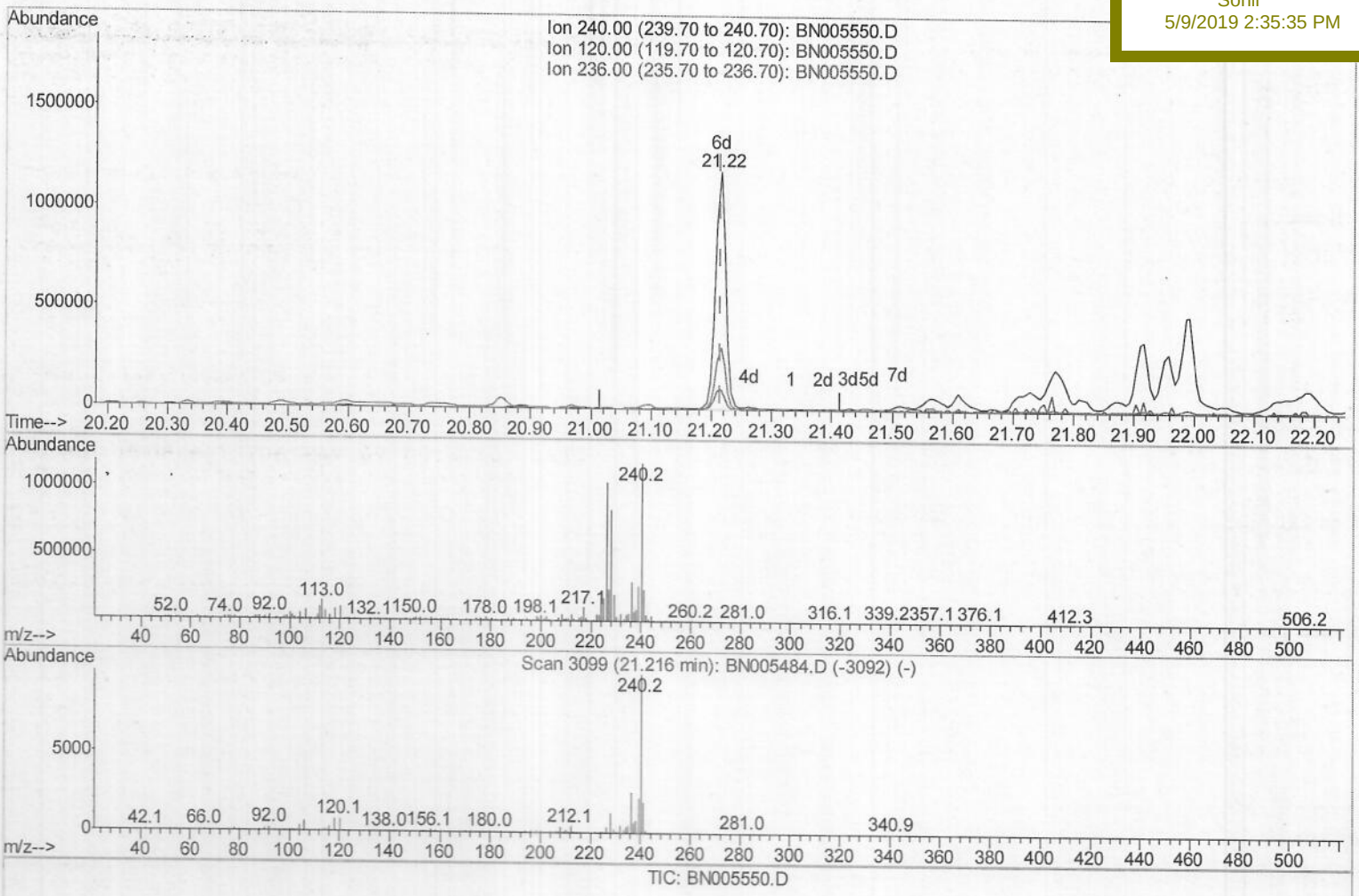
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 06:38:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM



TIC: BN005550.D

(77) Chrysene-d12 (I)

21.216min (-0.000) 20.00ng/ul m)J005121119

response 1394895

Ion	Exp%	Act%
240.00	100	100
120.00	10.90	8.29#
236.00	26.10	25.58
0.00	0.00	0.00

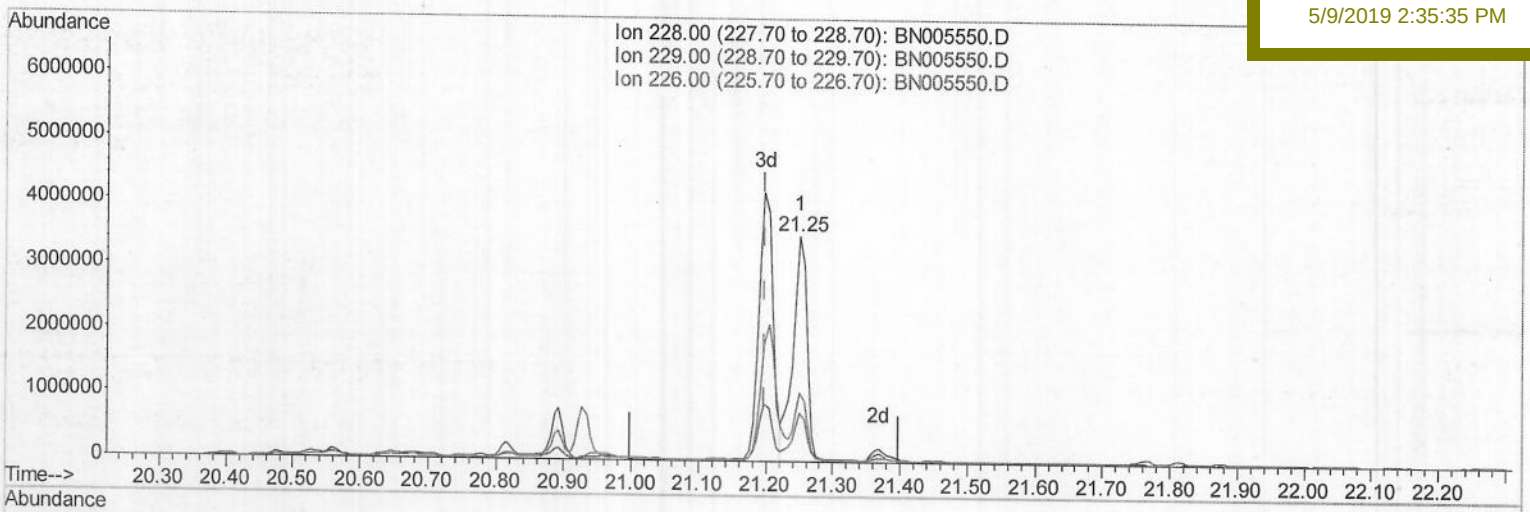
Quantitation Report (Qedit)

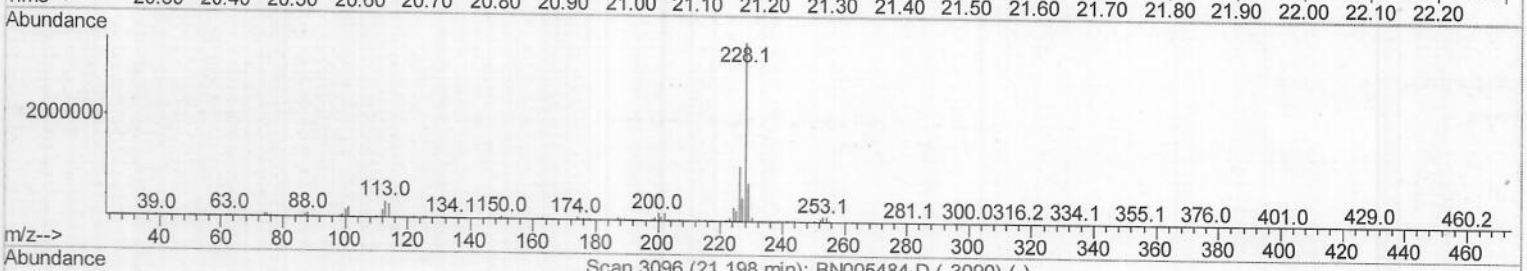
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

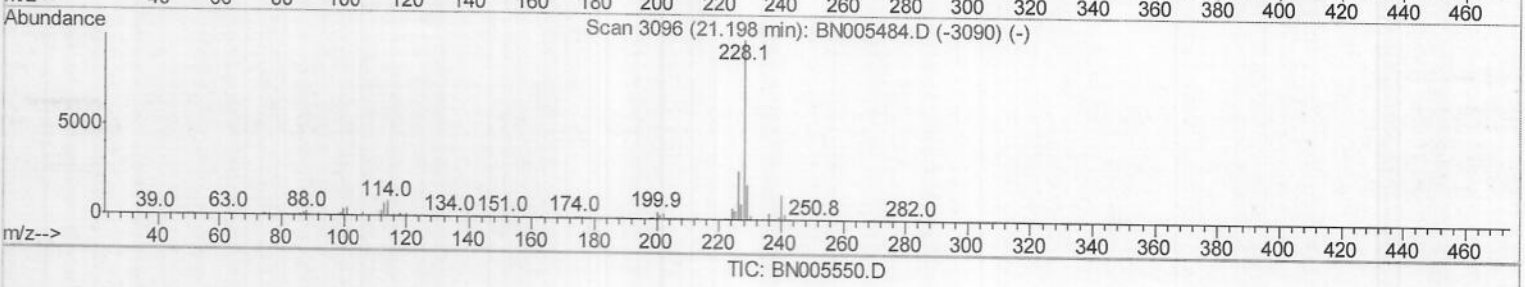
Quant Time: May 09 06:40:19 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM







TIC: BN005550.D

(82) Benzo(a)anthracene

21.251min (+0.053) 57.17ng/ul

response 4961214

Ion	Exp%	Act%
228.00	100	100
229.00	19.70	21.17
226.00	26.80	30.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 06:40:19 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
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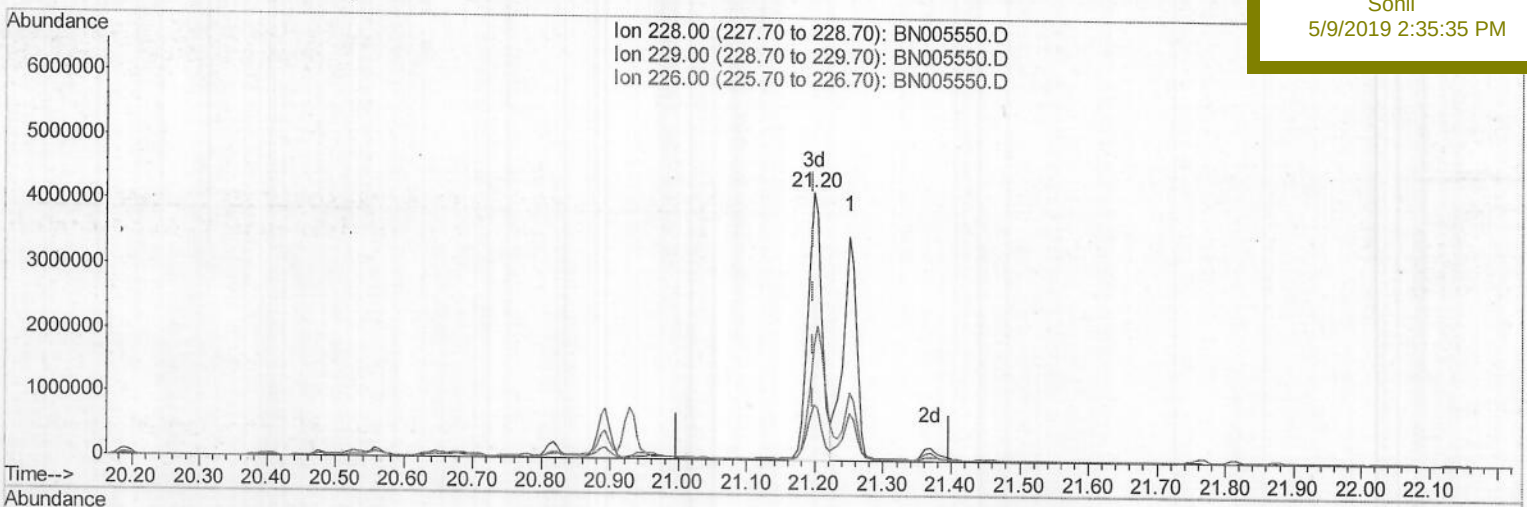
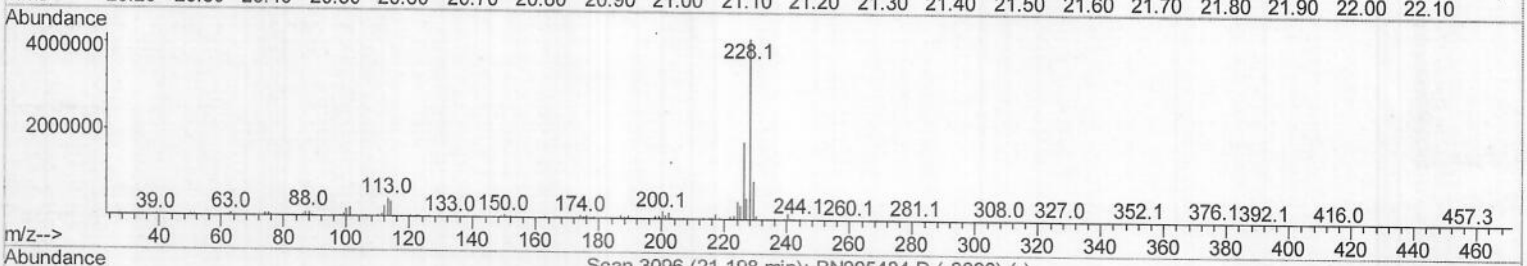
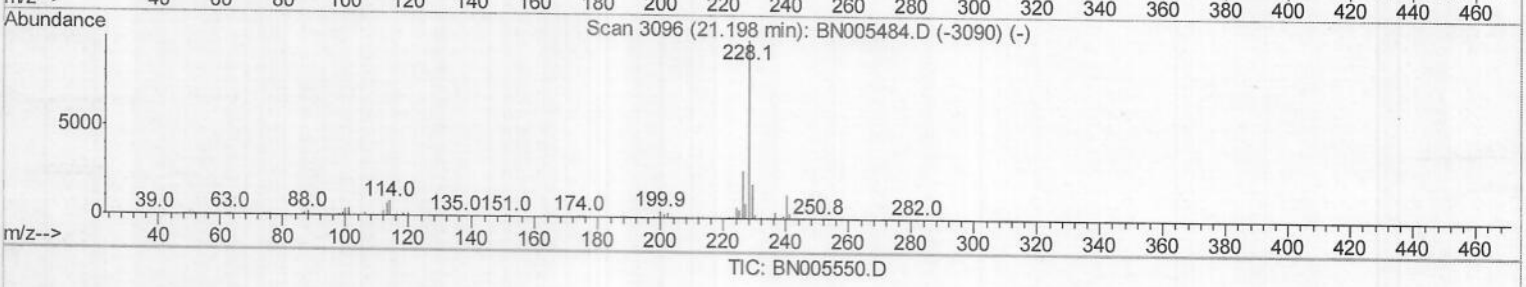
Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM







TIC: BN005550.D

(82) Benzo(a)anthracene

21.198min (-0.000) 69.77ng/ul m JJ005 | 21 | 19

response 6054595

Ion	Exp%	Act%
228.00	100	100
229.00	19.70	20.97
226.00	26.80	43.18#
0.00	0.00	0.00

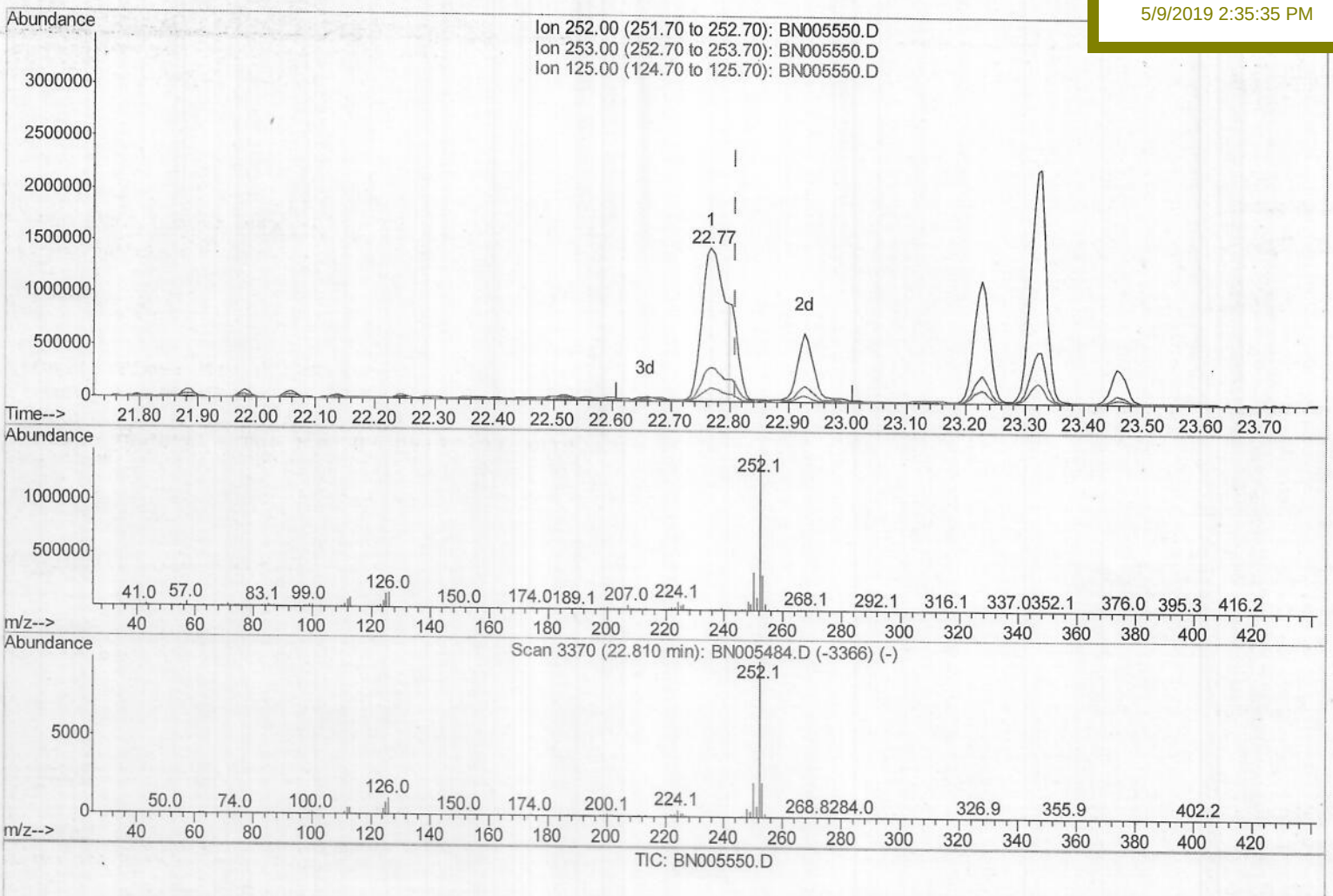
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 06:40:19 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM



TIC: BN005550.D

(88) Benzo(k)fluoranthene

22.768min (-0.041) 51.62ng/ul

response 3812325

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	22.53
125.00	9.40	8.77
0.00	0.00	0.00

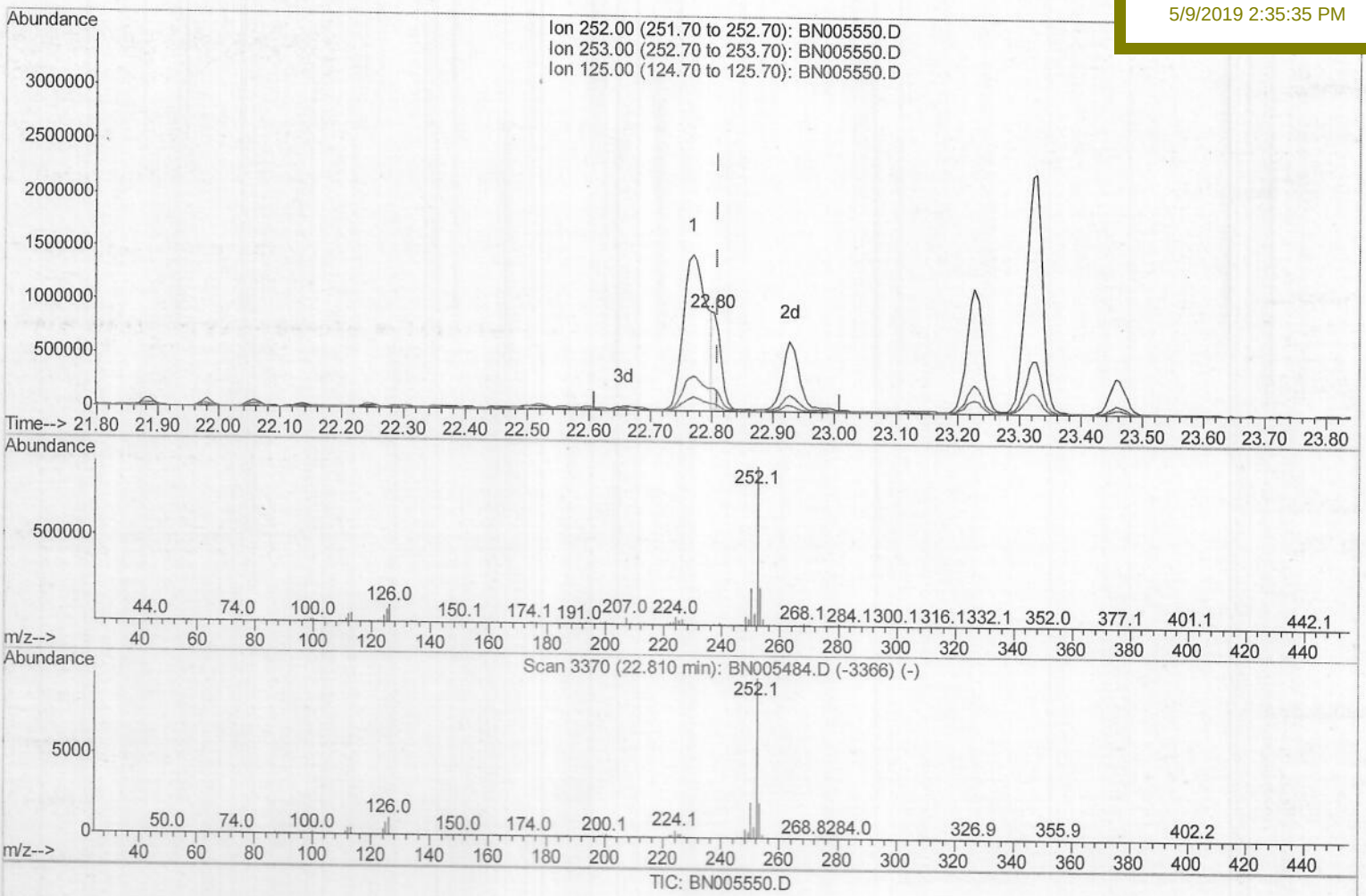
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 06:40:19 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM



TIC: BN005550.D

(88) Benzo(k)fluoranthene

22.798min (-0.012) 10.97ng/ul m JJV05/21/19

response 810045

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	23.59
125.00	9.40	8.02
0.00	0.00	0.00

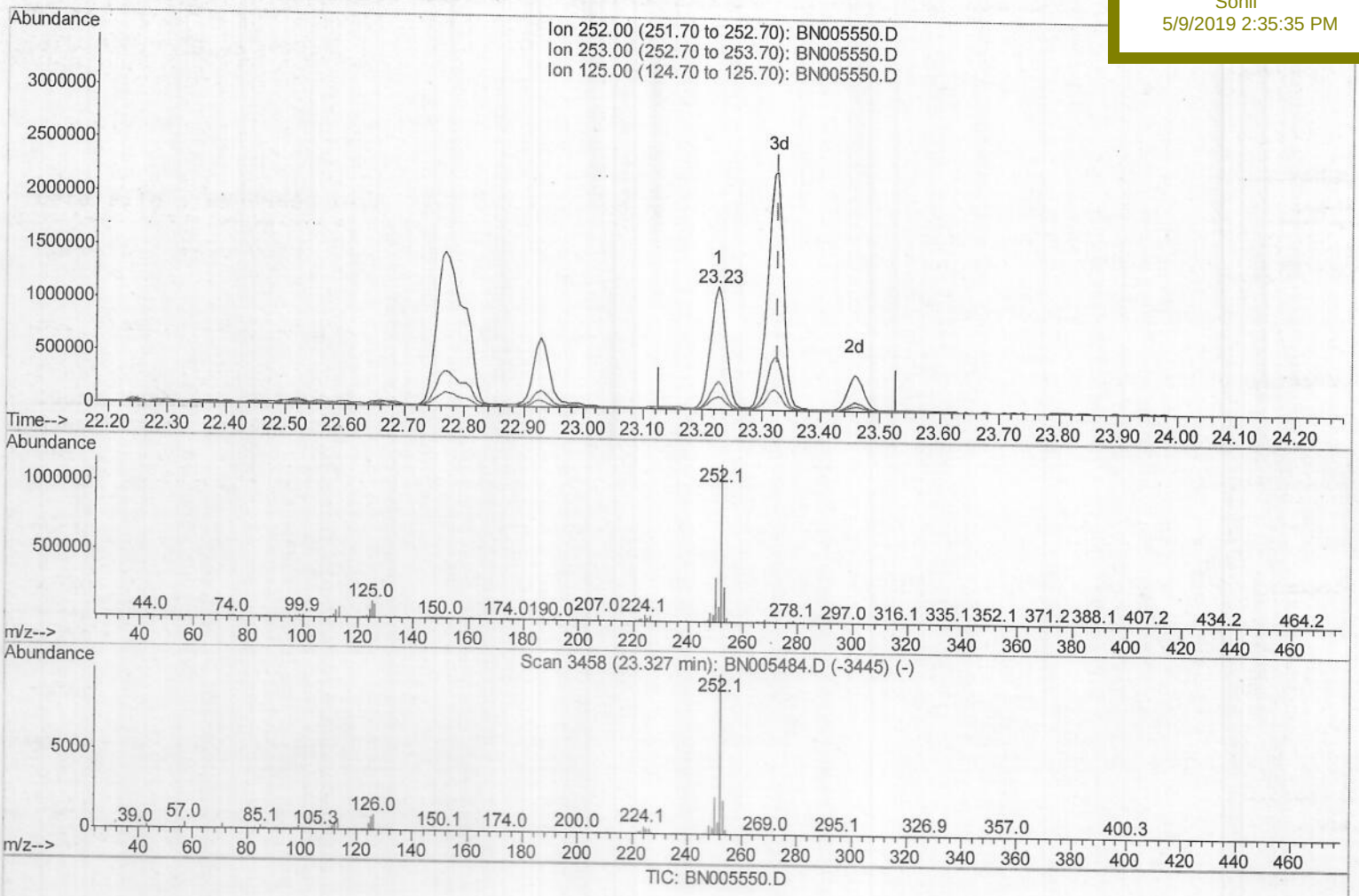
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 06:40:19 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM



TIC: BN005550.D

(90) Benzo(a)pyrene (C)

23.227min (-0.100) 28.27ng/ul

response 2054916

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	22.72
125.00	10.80	10.80
0.00	0.00	0.00

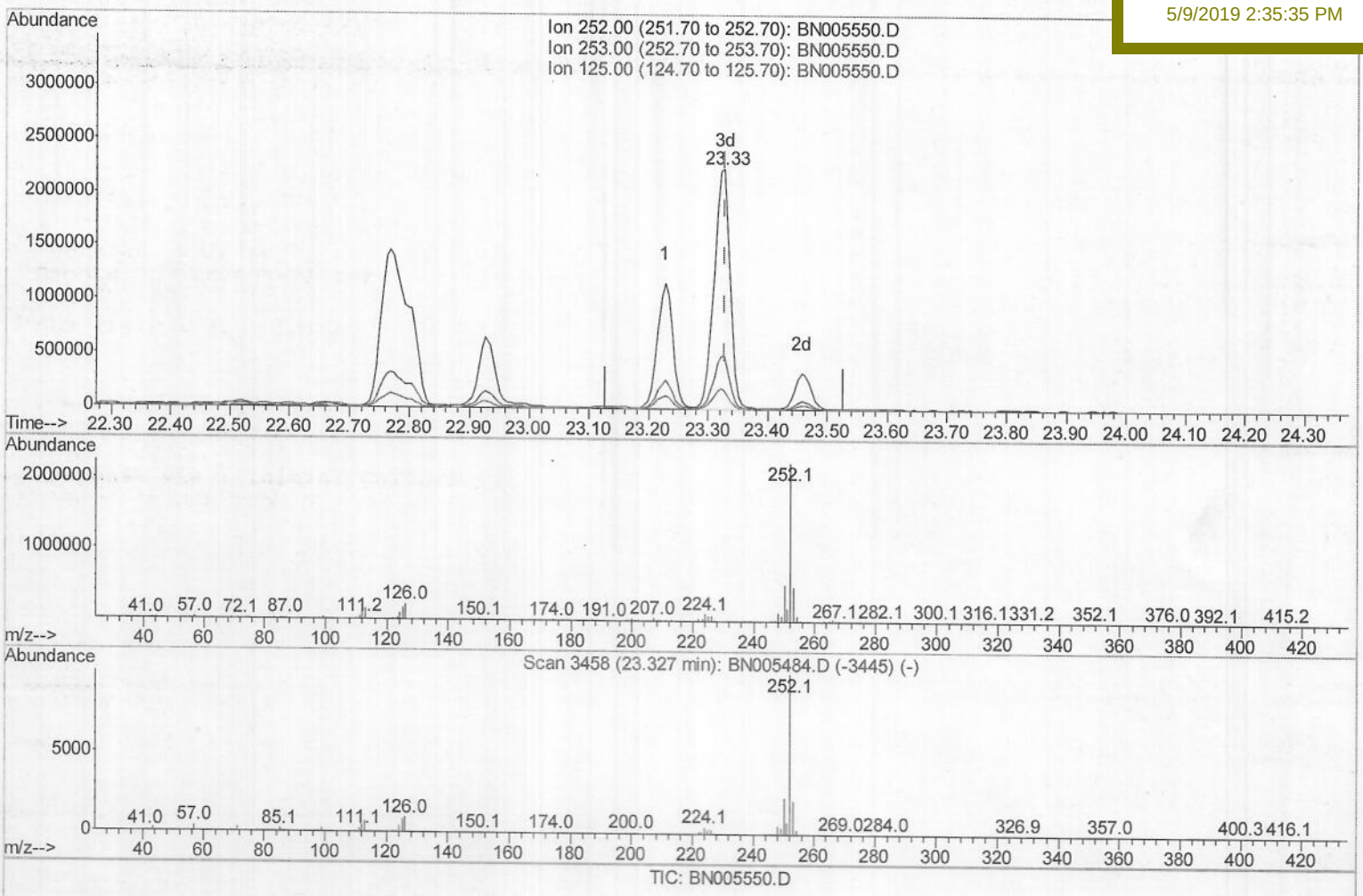
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 06:40:19 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM



TIC: BN005550.D

(90) Benzo(a)pyrene (C)

23.327min (-0.000) 57.41ng/ul m JJV05/21/19

response 4173450

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	21.68
125.00	10.80	7.82#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050819\
Data File : BN005550.D
Acq On : 09 May 2019 01:46
Operator : JU/SJ
Sample : K2604-21 10X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 09 06:41:45 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

Instrument : BNA_N
ClientSampleId : GAJ92

Manual Integrations APPROVED
Sohil
5/9/2019 2:35:35 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	308004	20.00	ng/ul	0.00
18) Naphthalene-d8	10.35	136	1351172	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.22	164	835982	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.99	188	1870232m	20.00	ng/ul	0.00
77) Chrysene-d12	21.22	240	1394895m	20.00	ng/ul	0.00
85) Perylene-d12	23.42	264	1375746	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.21	96	1940	0.30	ng/uL	0.00
5) Phenol-d5	6.78	99	38270	1.58	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	24425	1.62	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	33339	1.80	ng/ul	0.00
13) 4-Methylphenol-d8	8.30	113	31227	1.65	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	20589	2.48	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	17177	2.04	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	33668	1.74	ng/ul	0.02
29) 4-Chloroaniline-d4	10.50	131	37703	1.89	ng/ul	0.01
43) Dimethylphthalate-d6	13.64	166	129718	2.14	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	151130	2.03	ng/ul	0.00
51) 4-Nitrophenol-d4	14.44	143	4201m	0.44	ng/ul	0.00
57) Fluorene-d10	15.22	176	111358	2.19	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.36	200	293m	0.03	ng/ul	0.00
70) Anthracene-d10	17.09	188	163833	2.09	ng/ul	0.00
78) Pyrene-d10	19.40	212	172276	2.41	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.27	264	120004	2.00	ng/ul	0.00
Target Compounds						Qvalue
28) Naphthalene	10.41	128	11454379	182.355	ng/ul	99
34) 2-Methylnaphthalene	12.03	142	9770952	212.444	ng/ul	99
40) 1,1'-Biphenyl	13.05	154	2561938	41.130	ng/ul	99
47) Acenaphthylene	13.95	152	10857875	148.233	ng/ul	95
49) Acenaphthene	14.29	153	899664	17.991	ng/ul	98
53) Dibenzofuran	14.63	168	1039204	14.434	ng/ul	99
58) Fluorene	15.30	166	806545	14.356	ng/ul#	56
69) Phenanthrene	17.03	178	21750893m	238.802	ng/ul	
71) Anthracene	17.12	178	7751720	83.544	ng/ul	99
76) Fluoranthene	19.07	202	12709924	125.805	ng/ul	99
79) Pyrene	19.43	202	15951553	177.609	ng/ul	97
82) Benzo(a)anthracene	21.20	228	6054595m	69.772	ng/ul	
84) Chrysene	21.25	228	4957220	61.552	ng/ul	98
87) Benzo(b)fluoranthene	22.77	252	3812325	49.297	ng/ul	98
88) Benzo(k)fluoranthene	22.80	252	810045m	10.967	ng/ul	
90) Benzo(a)pyrene	23.33	252	4173450m	57.414	ng/ul	
91) Indeno(1,2,3-cd)pyrene	25.60	276	1547332	19.253	ng/ul#	92
92) Dibenzo(a,h)anthracene	25.60	278	452095	6.628	ng/ul#	83
93) Benzo(g,h,i)perylene	26.27	276	1606957	24.182	ng/ul	94

JU 05/21/19

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