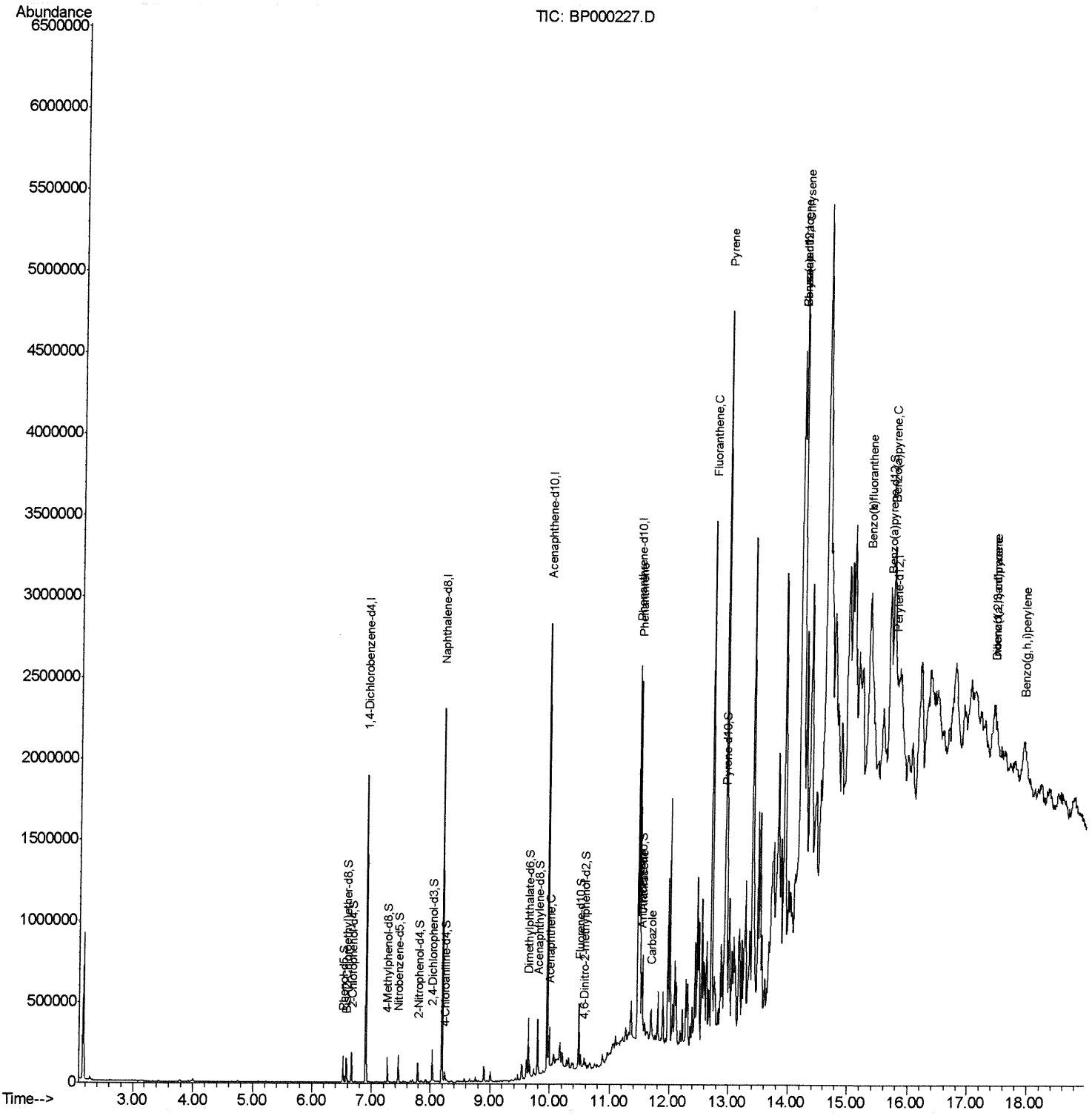
Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 13 06:06:30 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM



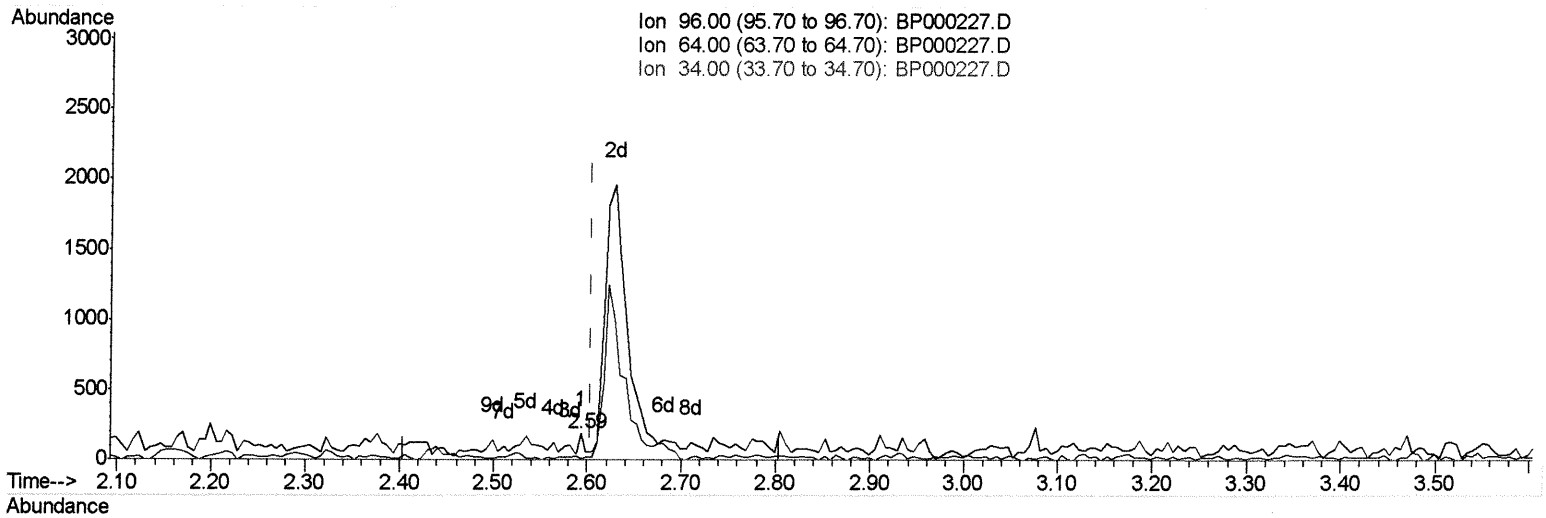
Quantitation Report (Qedit)

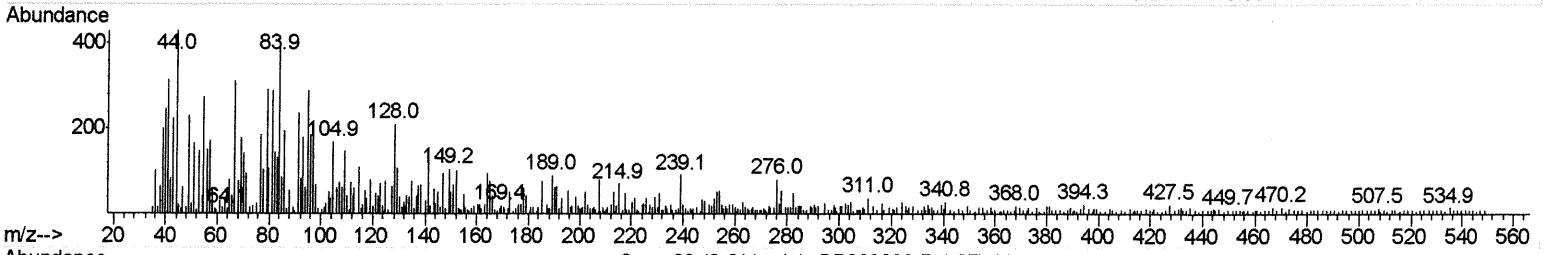
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

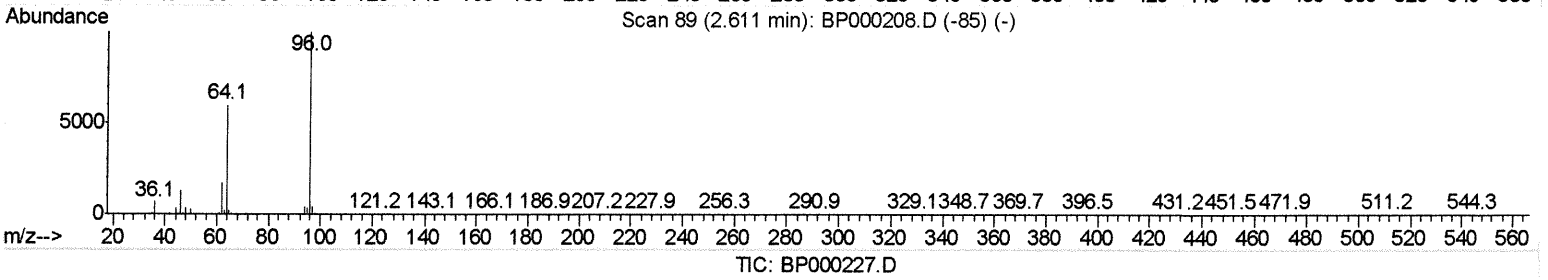
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







TIC: BP000227.D

(3) 1,4-Dioxane-d8 (S)

2.593min (-0.012) 0.01ng/uL

response 68

Ion	Exp%	Act%
96.00	100	100
64.00	62.70	6.99#
34.00	0.00	0.00
0.00	0.00	0.00

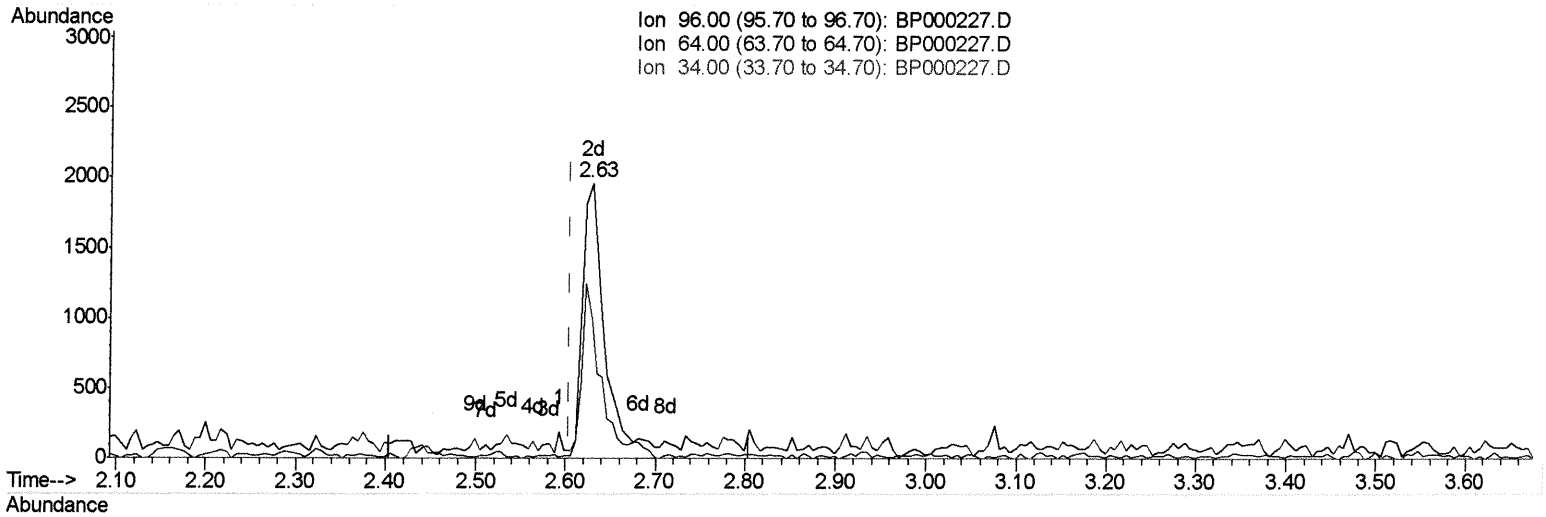
Quantitation Report (Qedit)

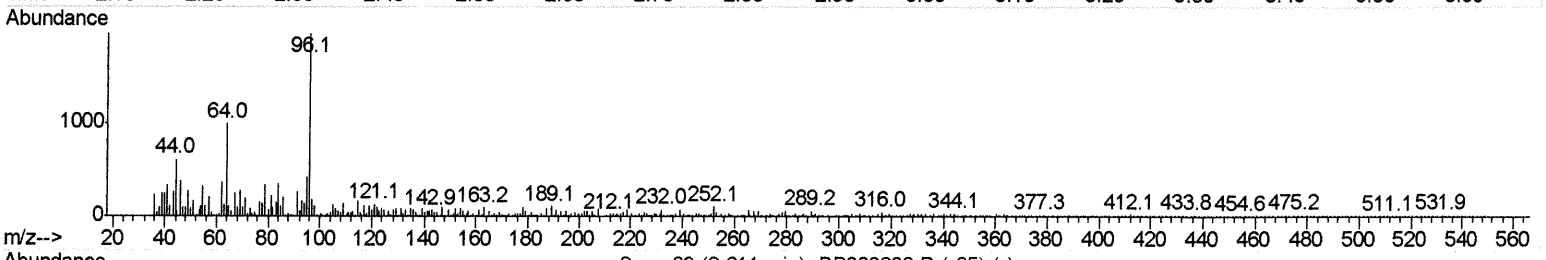
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

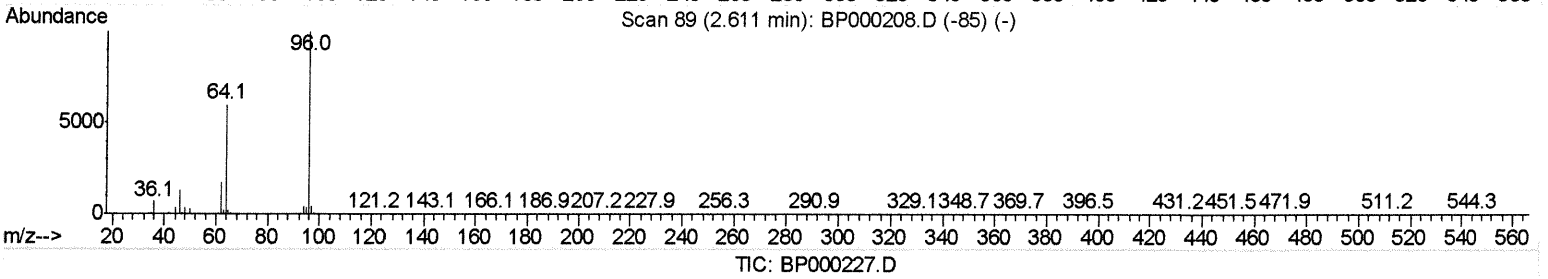
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







TIC: BP000227.D

(3) 1,4-Dioxane-d8 (S)

2.628min (+0.024) 0.44ng/uL m JU 09/17/19

response 3037

Ion	Exp%	Act%
96.00	100	100
64.00	62.70	50.64
34.00	0.00	0.00
0.00	0.00	0.00

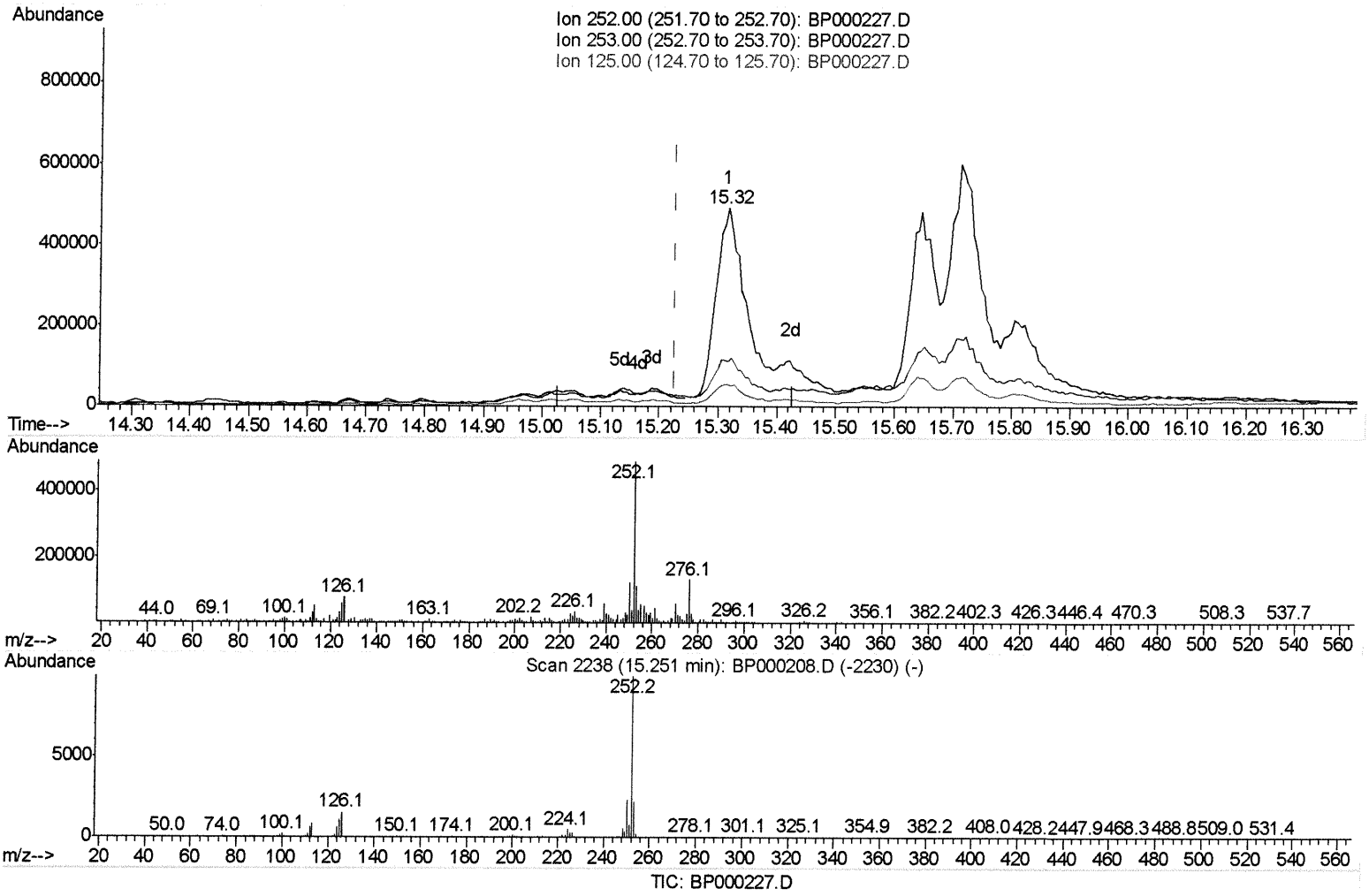
Quantitation Report (Qedit)

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM



TIC: BP000227.D

(88) Benzo(b)fluoranthene

15.316min (+0.088) 37.03ng/ul

response 1652112

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	22.74
125.00	12.40	11.34
0.00	0.00	0.00

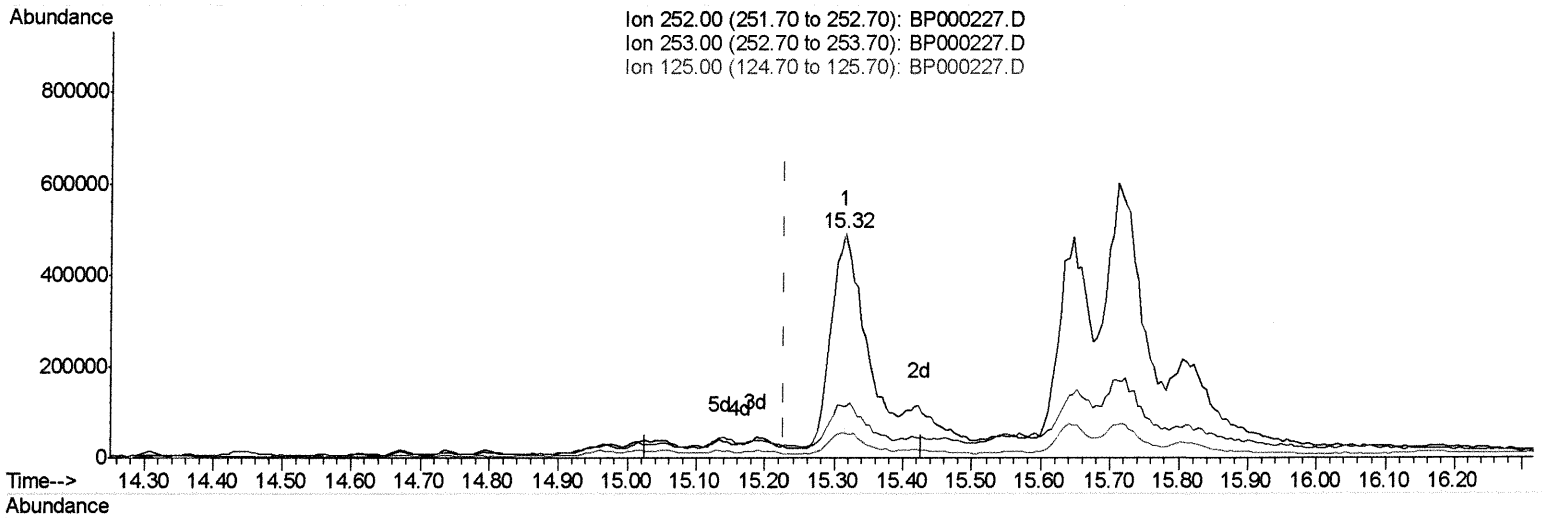
Quantitation Report (Qedit)

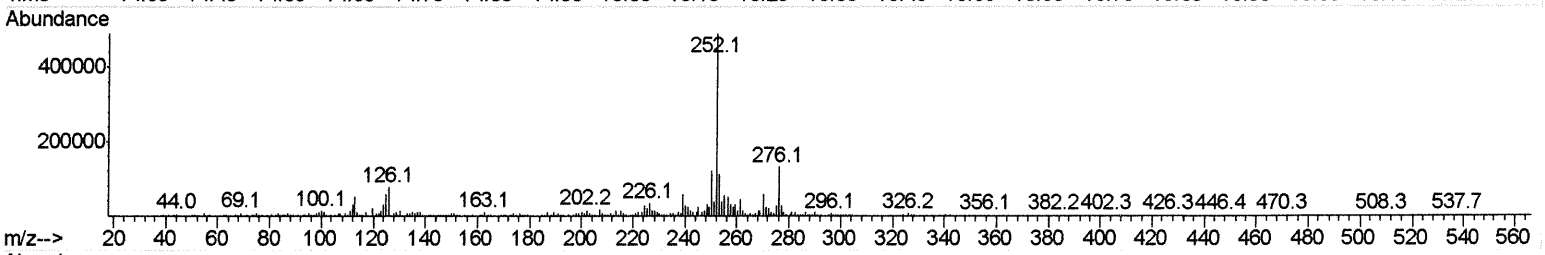
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

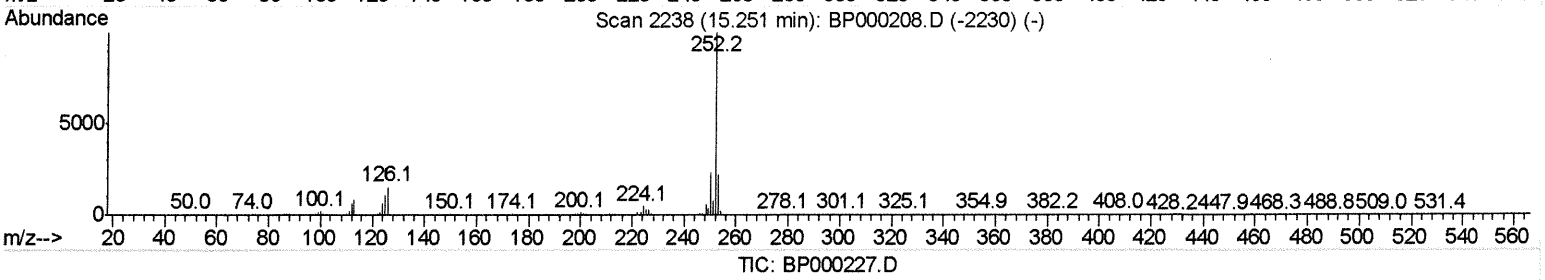
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







(88) Benzo(b)fluoranthene

15.316min (+0.088) 17.52ng/ul m JV 09/17/19

response 781728

Ion	Exp%	Act%
252.00	100	100
253.00	21.90	22.74
125.00	12.40	11.34
0.00	0.00	0.00

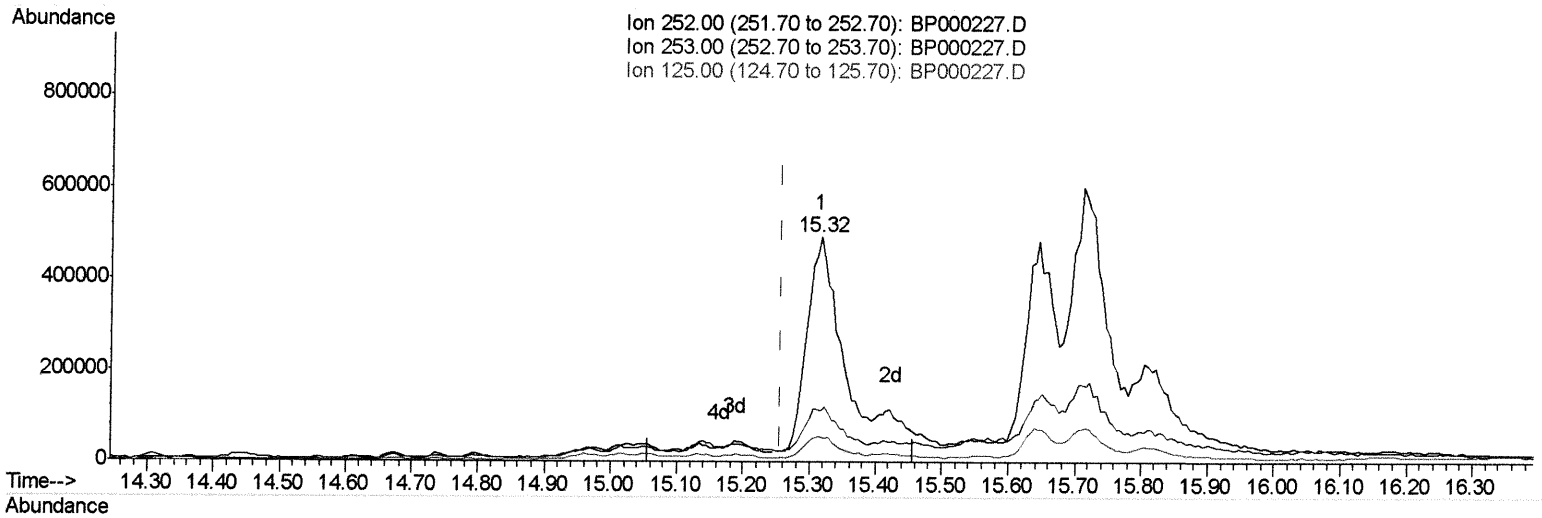
Quantitation Report (Qedit)

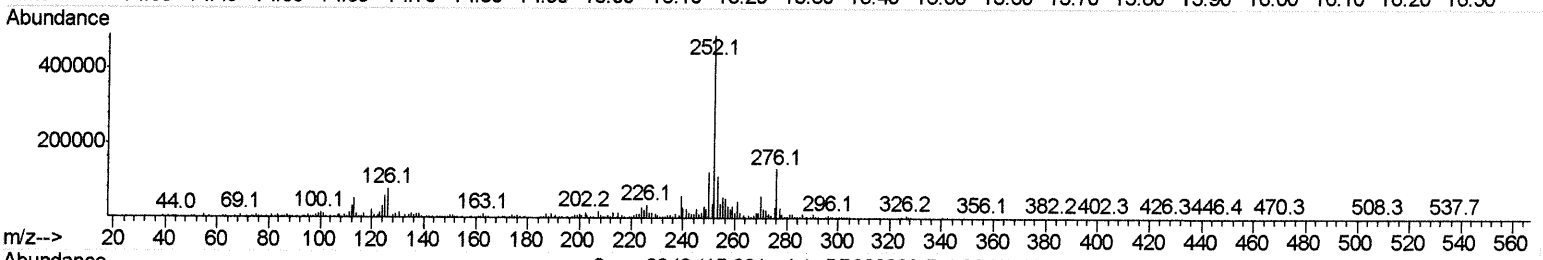
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

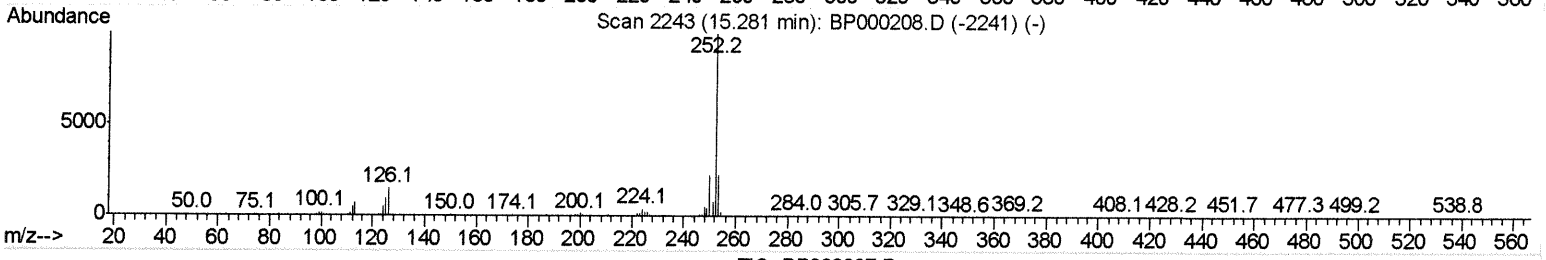
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







(89) Benzo(k)fluoranthene

15.316min (+0.059) 39.28ng/ul

response 1652112

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	22.74
125.00	12.70	11.34
0.00	0.00	0.00

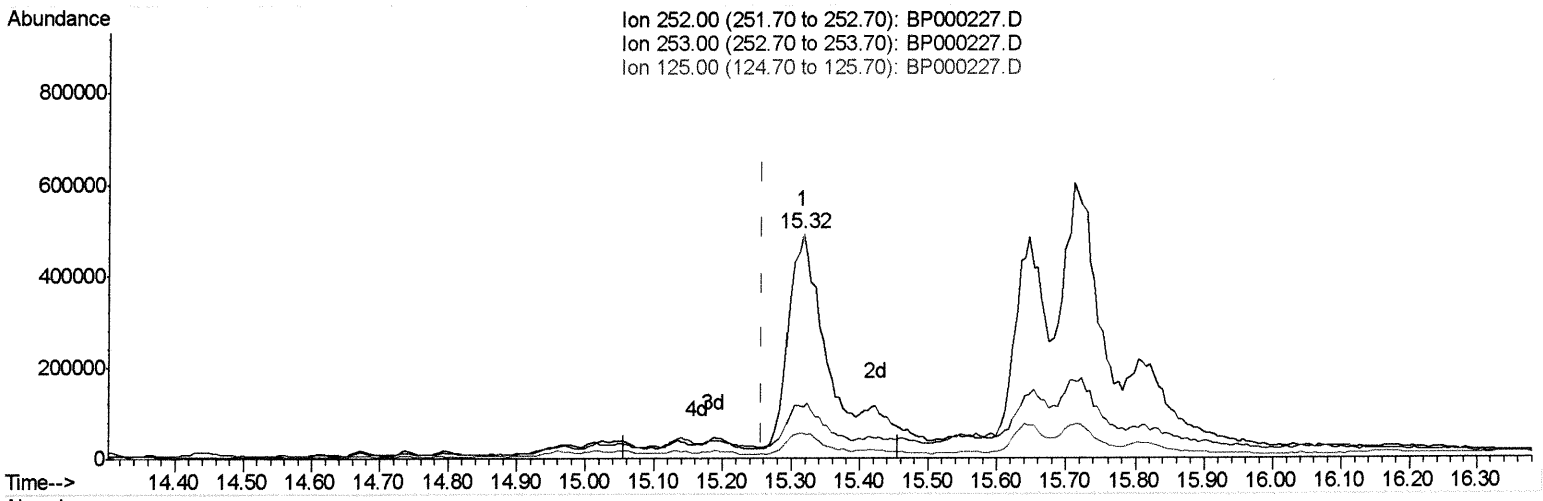
Quantitation Report (Qedit)

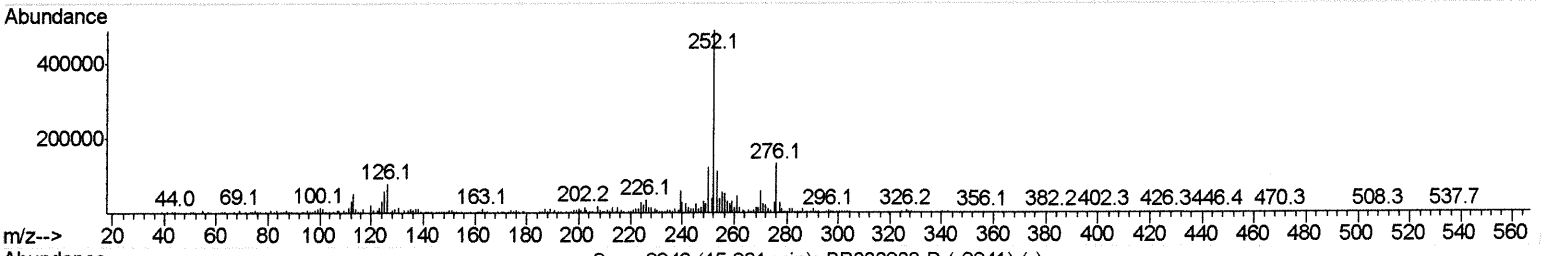
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

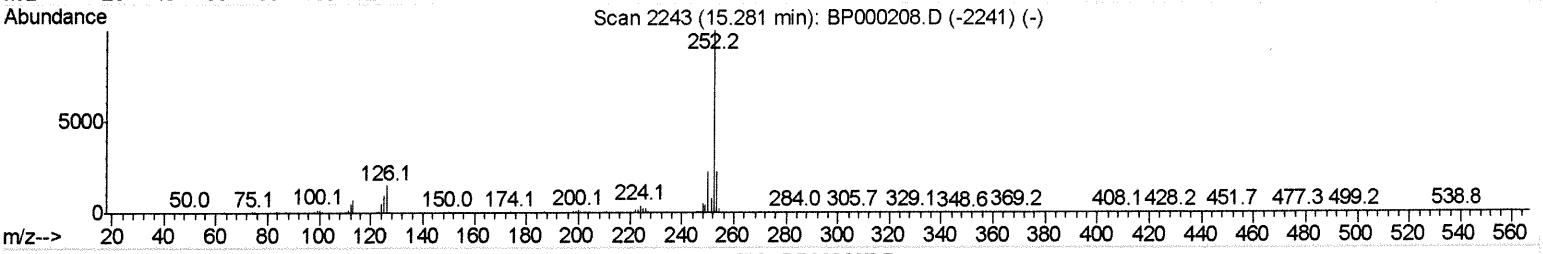
Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM





Scan 2243 (15.281 min): BP000208.D (-2241) (-)



TIC: BP000227.D

(89) Benzo(k)fluoranthene

15.316min (+0.059) 13.22ng/ul m JU 09/12/19

response 556037

Ion	Exp%	Act%
252.00	100	100
253.00	22.50	22.74
125.00	12.70	11.34
0.00	0.00	0.00

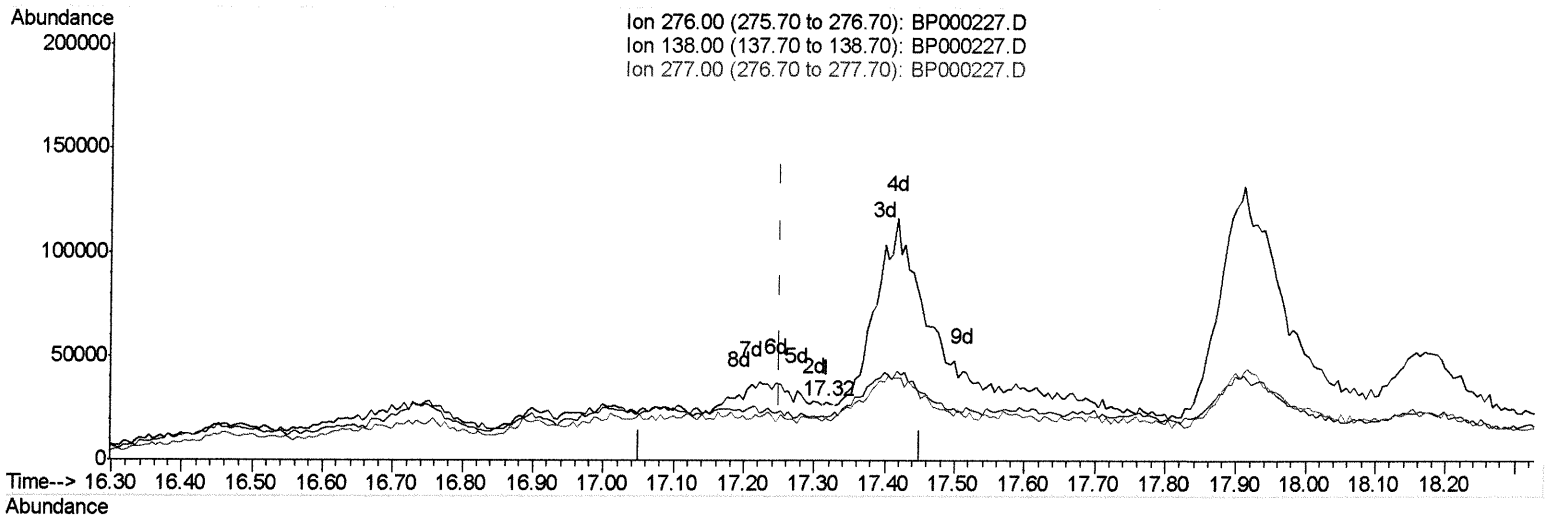
Quantitation Report (Qedit)

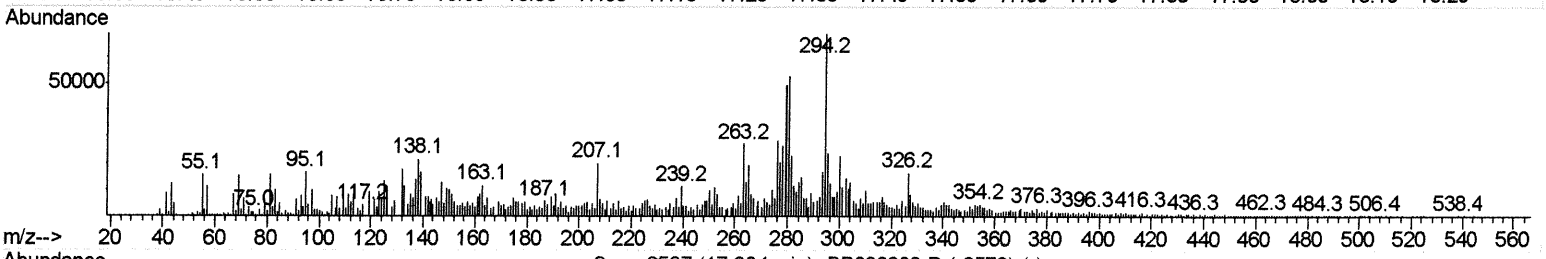
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

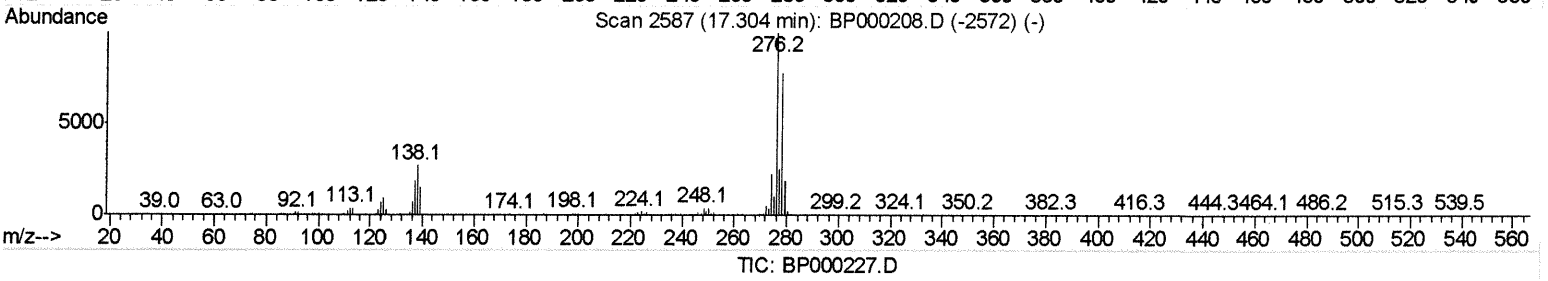
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







TIC: BP000227.D

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

17.316min (+0.065) 0.02ng/ul

response 734

Ion	Exp%	Act%
276.00	100	100
138.00	25.00	74.79#
277.00	24.20	71.04#
0.00	0.00	0.00

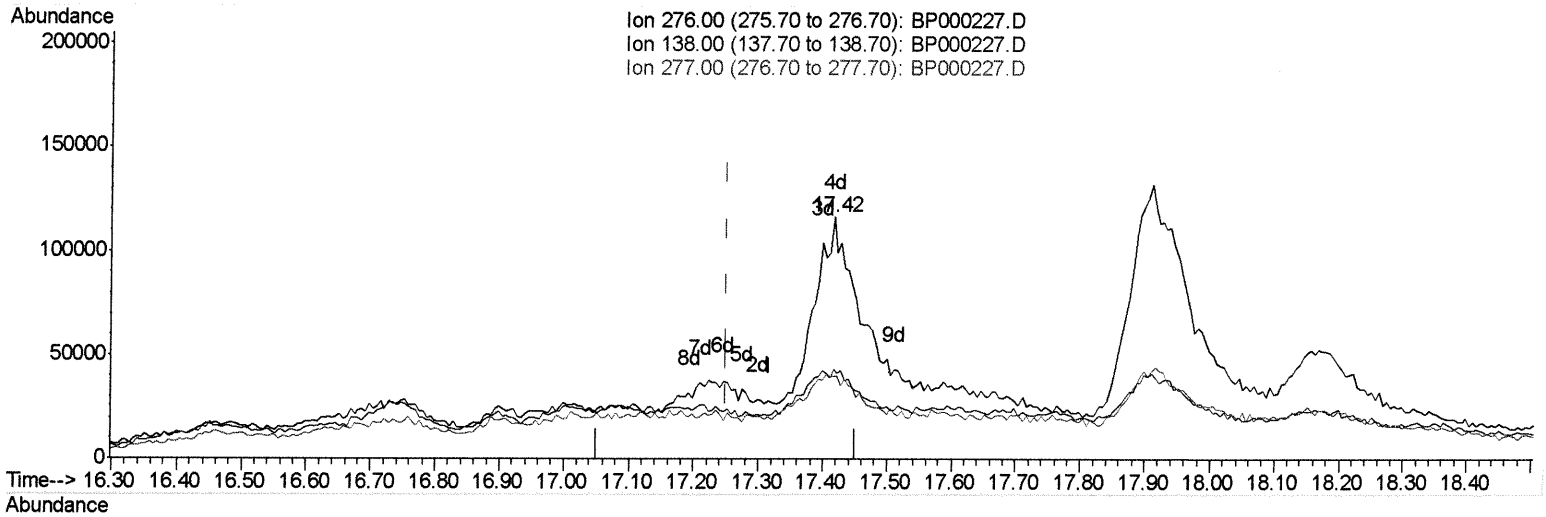
Quantitation Report (Qedit)

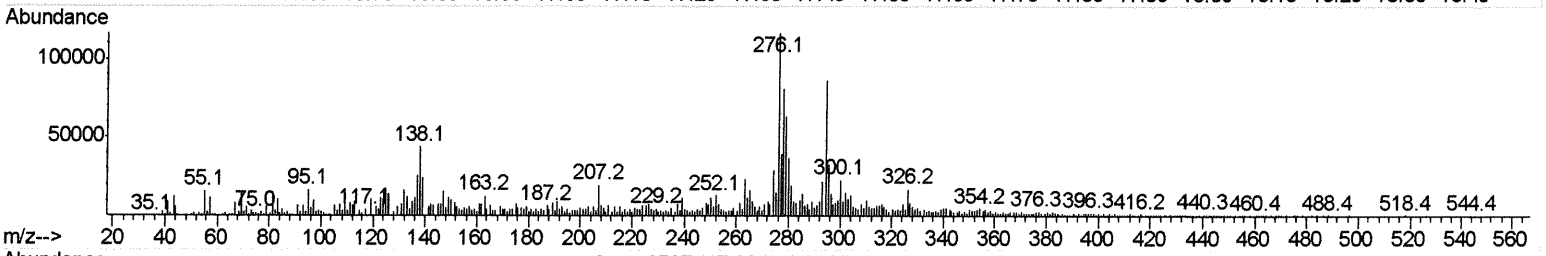
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

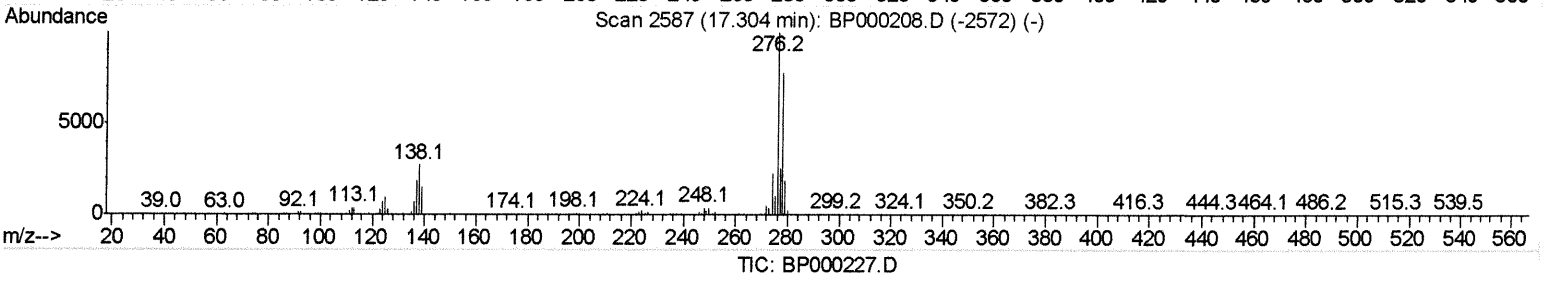
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







TIC: BP000227.D

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

17.416min (+0.165) 8.93ng/ul m JU 09/17/19

response 430096

Ion	Exp%	Act%
276.00	100	100
138.00	25.00	37.39#
277.00	24.20	33.88#
0.00	0.00	0.00

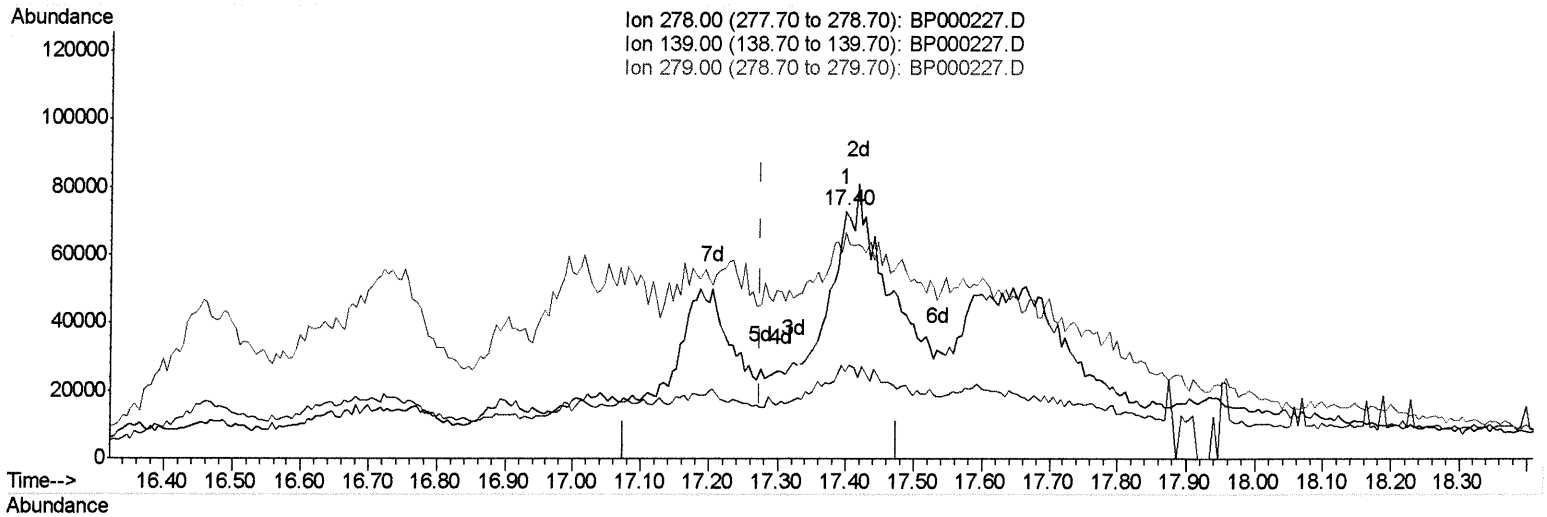
Quantitation Report (Qedit)

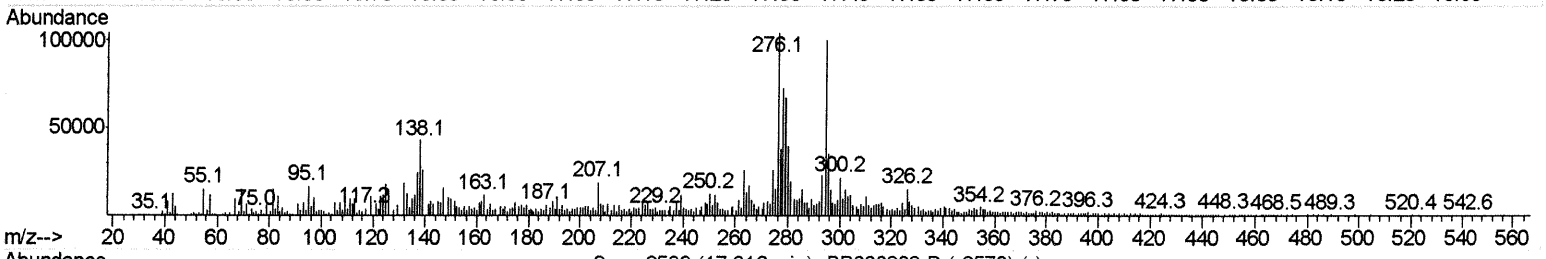
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

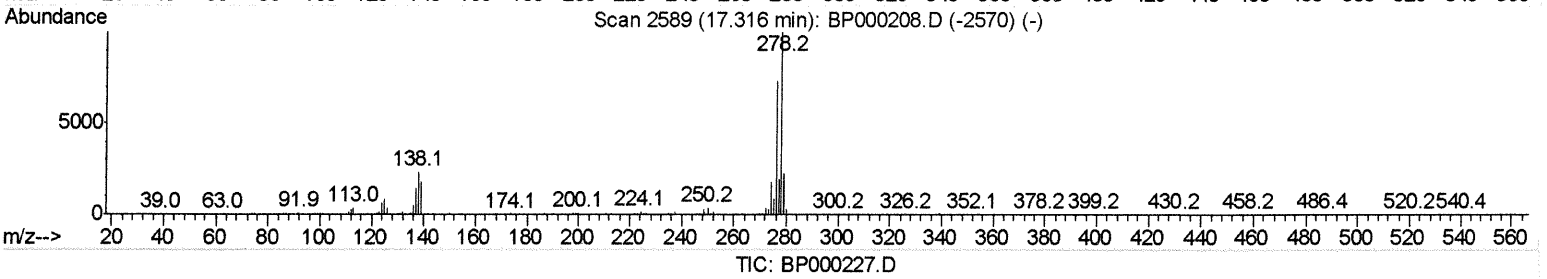
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







TIC: BP000227.D

(93) Dibenzo(a,h)anthracene

17.398min (+0.124) 2.50ng/ul

response 99582

Ion	Exp%	Act%
278.00	100	100
139.00	18.90	35.55#
279.00	24.00	91.57#
0.00	0.00	0.00

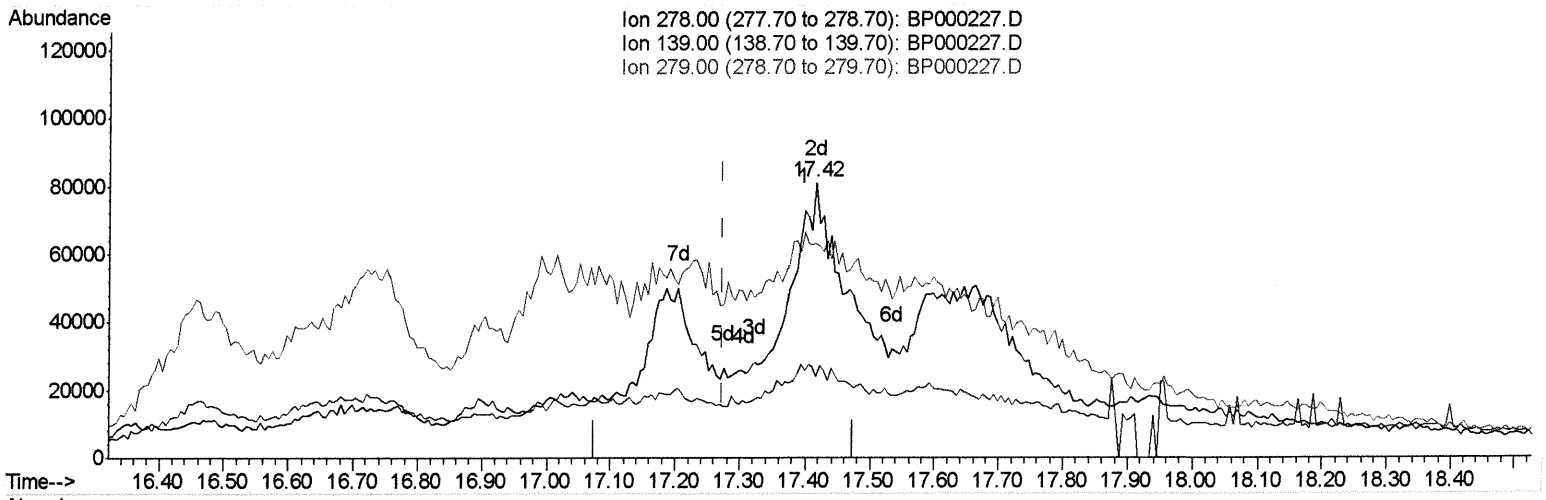
Quantitation Report (Qedit)

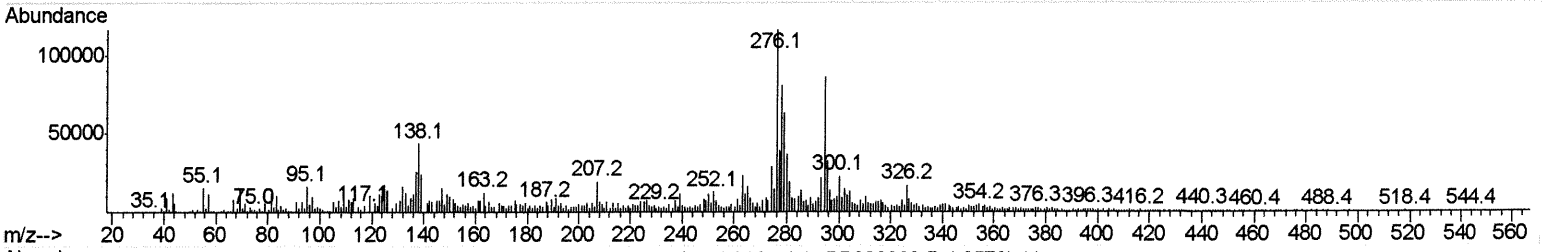
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

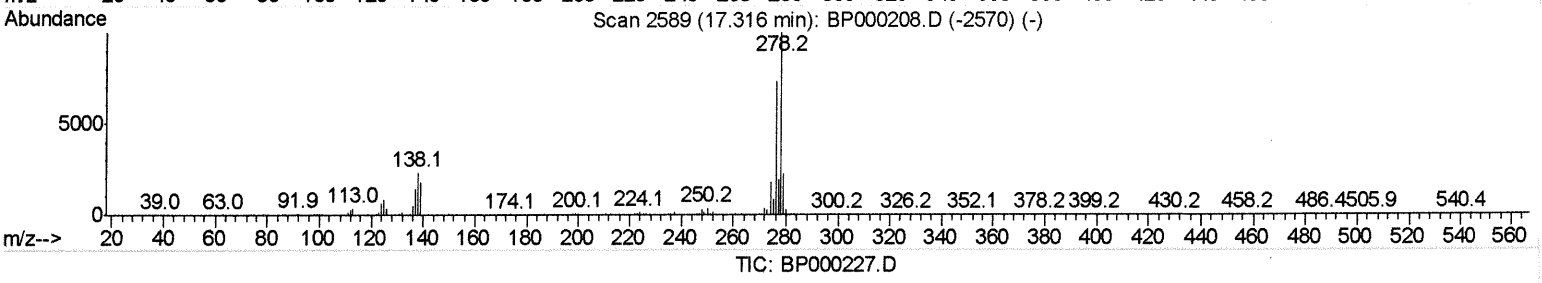
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







TIC: BP000227.D

(93) Dibenzo(a,h)anthracene

17.416min (+0.141) 6.48ng/ul m JU 09/17/19

response 258580

Ion	Exp%	Act%
278.00	100	100
139.00	18.90	29.41#
279.00	24.00	78.16#
0.00	0.00	0.00

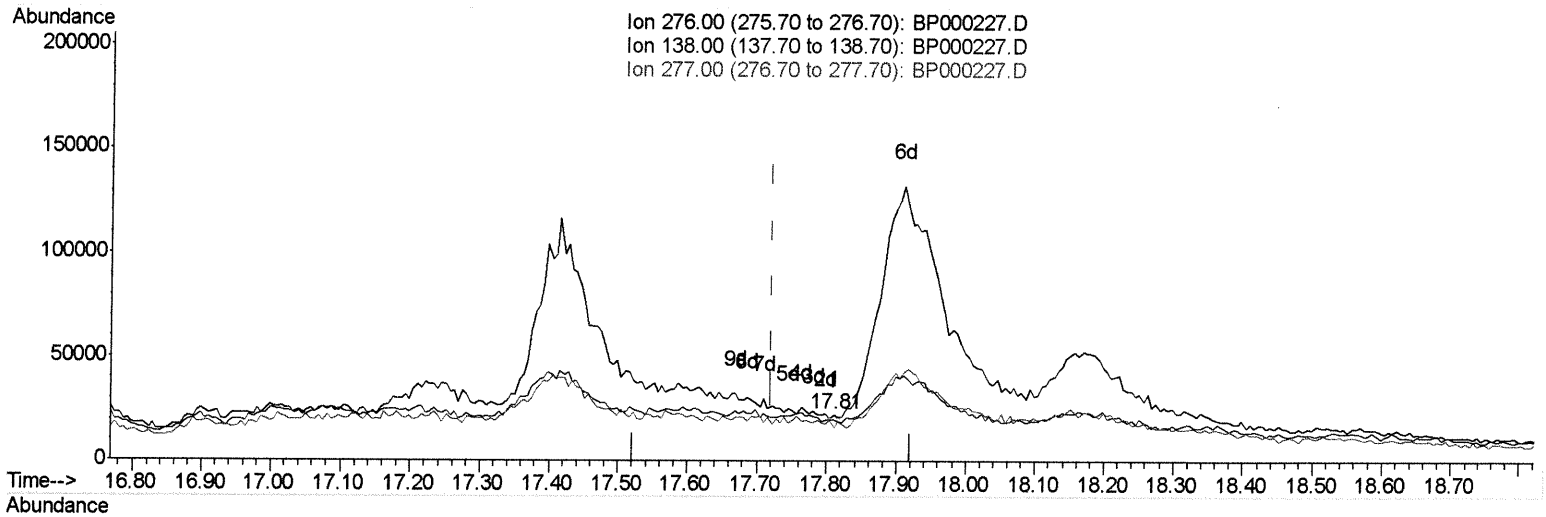
Quantitation Report (Qedit)

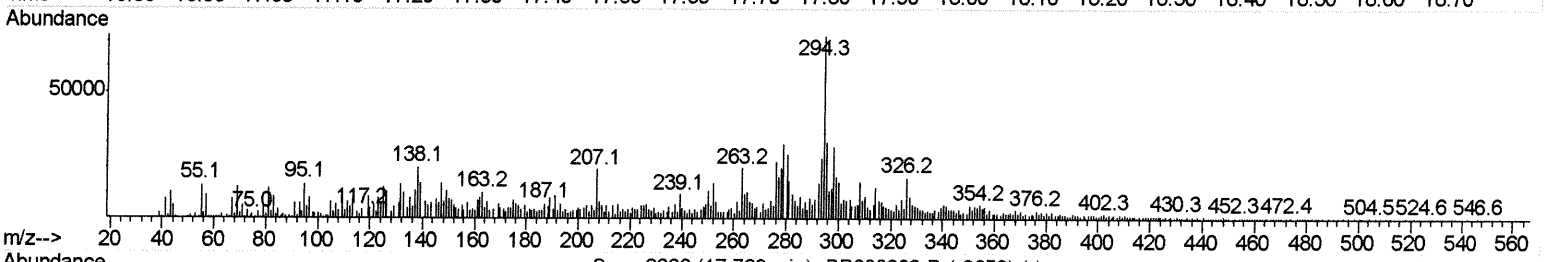
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

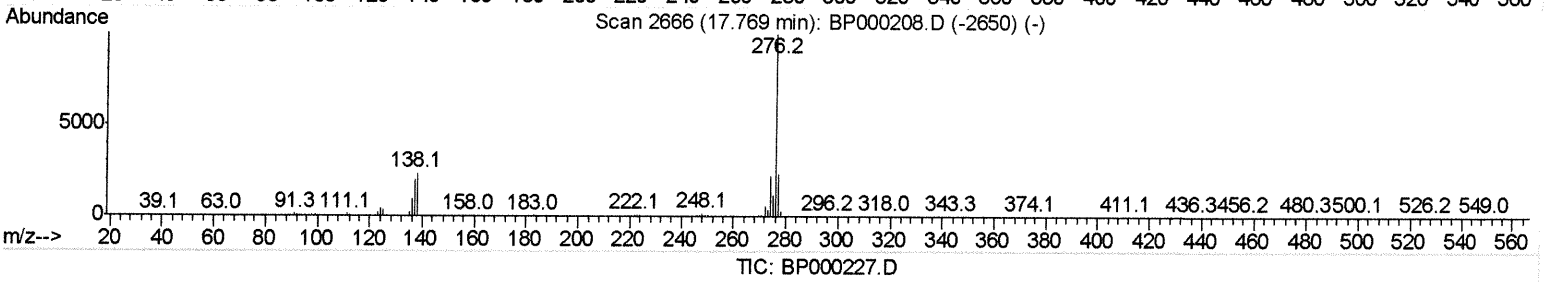
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







TIC: BP000227.D

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

17.810min (+0.088) 0.03ng/ul

response 1270

Ion	Exp%	Act%
276.00	100	100
138.00	25.00	89.19#
277.00	23.90	74.04#
0.00	0.00	0.00

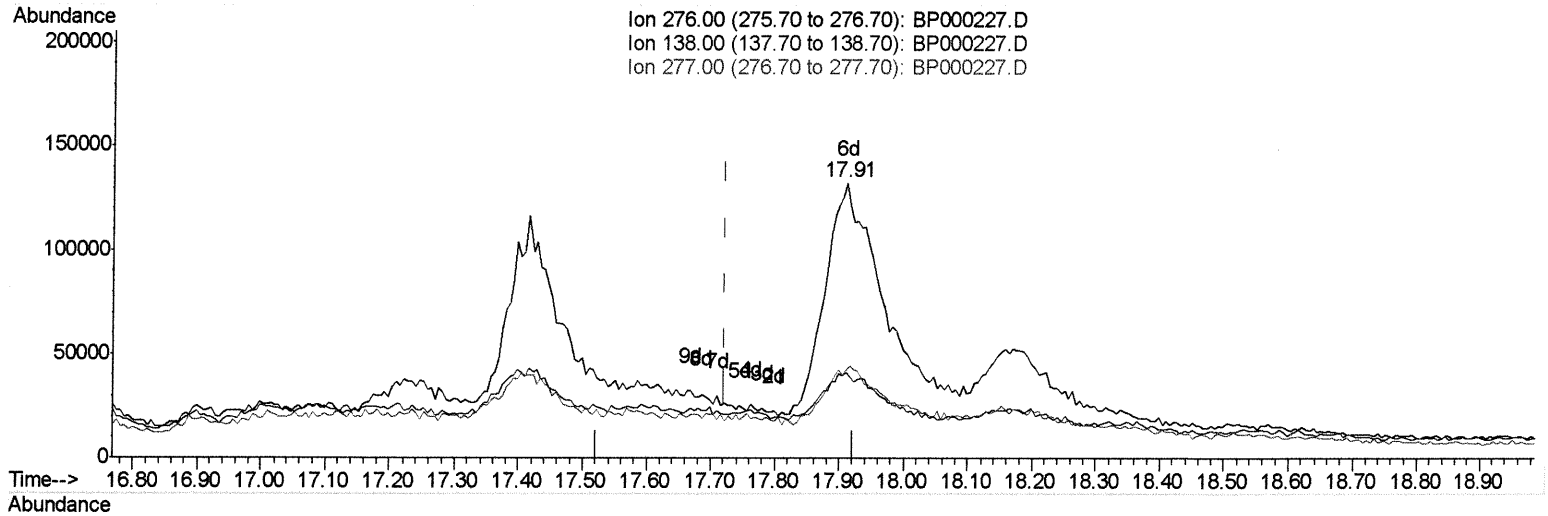
Quantitation Report (Qedit)

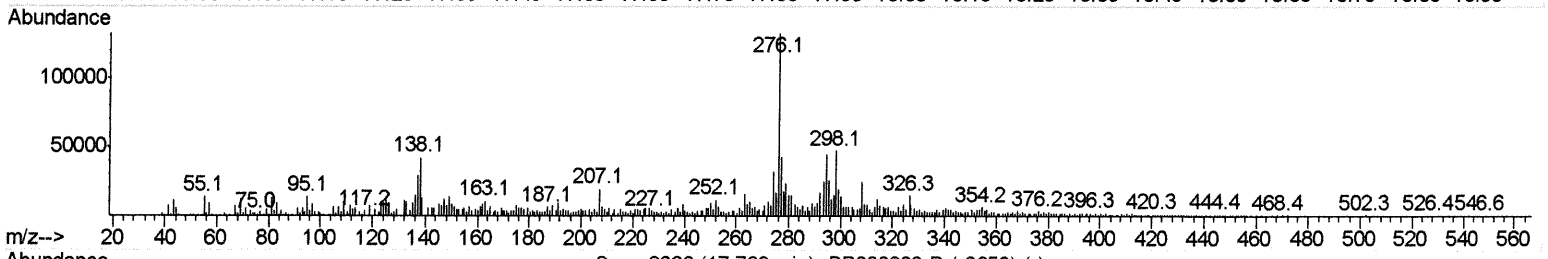
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

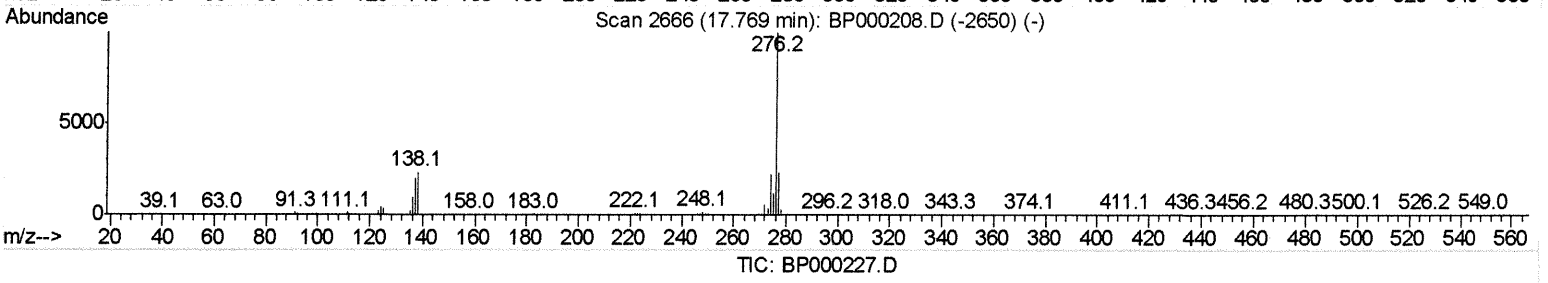
Quant Time: Sep 13 01:51:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM







TIC: BP000227.D

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

17.910min (+0.188) 15.21ng/ul m JU 09/17/19

response 610671

Ion	Exp%	Act%
276.00	100	100
138.00	25.00	31.56#
277.00	23.90	32.48#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091219\
Data File : BP000227.D
Acq On : 12 Sep 2019 20:34
Operator : HP/JU
Sample : K4633-12 10X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
F2D11

Manual Integrations APPROVED
mohammad
9/16/2019 9:14:03 AM

Quant Time: Sep 13 06:06:30 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\SOM-EPA-BP090519MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Sep 10 02:43:18 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	246997	20.00	ng/ul	0.00
18) Naphthalene-d8	8.18	136	950858	20.00	ng/ul	0.00
36) Acenaphthene-d10	9.95	164	528158	20.00	ng/ul	0.00
62) Phenanthrene-d10	11.46	188	891650	20.00	ng/ul	0.00
78) Chrysene-d12	14.18	240	645869	20.00	ng/ul	0.04
86) Perylene-d12	15.77	264	673211	20.00	ng/ul	0.09
System Monitoring Compounds						
3) 1,4-Dioxane-d8	2.63	96	3037m>	0.44	ng/uL>	0.02 JU 09/17/19
5) Phenol-d5	6.52	99	49480	2.35	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.58	67	29239	2.66	ng/ul	0.00
9) 2-Chlorophenol-d4	6.66	132	43164	2.54	ng/ul	0.00
13) 4-Methylphenol-d8	7.26	113	29956	1.90	ng/ul	0.00
19) Nitrobenzene-d5	7.45	128	19827	2.75	ng/ul	0.00
22) 2-Nitrophenol-d4	7.78	143	20512	2.92	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	8.02	165	37074	2.49	ng/ul	0.00
29) 4-Chloroaniline-d4	8.24	131	18765	1.02	ng/ul	0.00
44) Dimethylphthalate-d6	9.63	166	114779	2.94	ng/ul	0.00
47) Acenaphthylene-d8	9.79	160	139196	2.89	ng/ul	0.00
52) 4-Nitrophenol-d4	10.05	143	6945	1.00	ng/ul	0.01
58) Fluorene-d10	10.47	176	94732	2.86	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	10.55	200	4513	1.10	ng/ul	0.02
71) Anthracene-d10	11.52	188	133560	3.09	ng/ul	0.00
79) Pyrene-d10	12.92	212	122525	3.19	ng/ul	0.02
90) Benzo(a)pyrene-d12	15.67	264	91292	2.62	ng/ul	0.08
Target Compounds						Qvalue
50) Acenaphthene	9.99	153	60575	1.736	ng/ul	97
70) Phenanthrene	11.48	178	884186	16.768	ng/ul	98
72) Anthracene	11.53	178	194875	3.756	ng/ul	99
75) Carbazole	11.69	167	88569	1.996	ng/ul	99
77) Fluoranthene	12.70	202	1703270	32.026	ng/ul	97
80) Pyrene	12.94	202	2393369	49.117	ng/ul	93
83) Benzo(a)anthracene	14.17	228	1738317	37.181	ng/ul#	89
85) Chrysene	14.21	228	2489319	58.024	ng/ul#	89
88) Benzo(b)fluoranthene	15.32	252	781728m>	17.520	ng/ul>	JU 09/17/19
89) Benzo(k)fluoranthene	15.32	252	556037m>	13.220	ng/ul>	JU 09/17/19
91) Benzo(a)pyrene	15.71	252	1894398	45.252	ng/ul#	91
92) Indeno(1,2,3-cd)pyrene	17.42	276	430096m>	8.930	ng/ul>	JU 09/17/19
93) Dibenzo(a,h)anthracene	17.42	278	258580m>	6.482	ng/ul>	JU 09/17/19
94) Benzo(g,h,i)perylene	17.91	276	610671m>	15.208	ng/ul>	JU 09/17/19

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