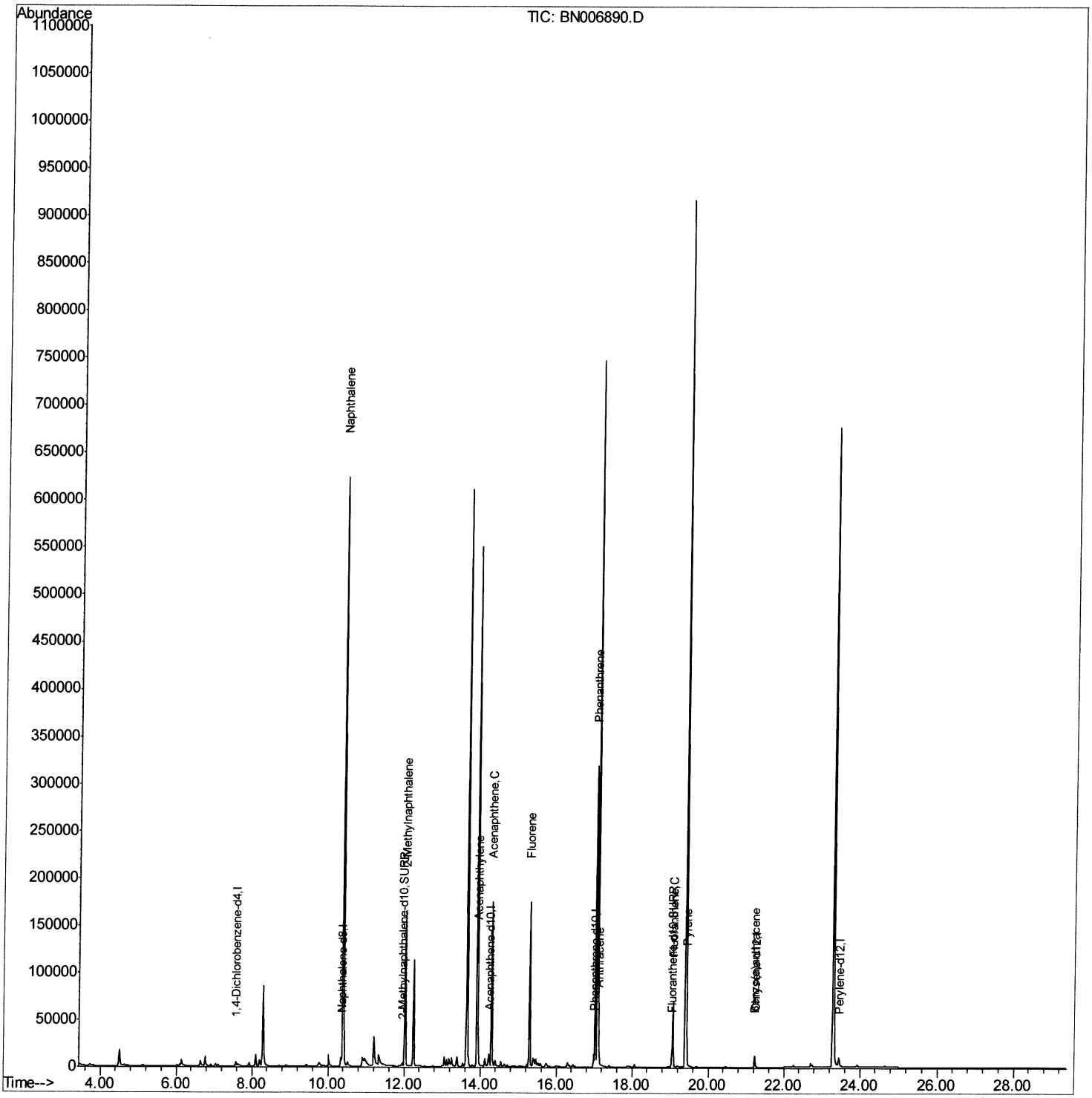
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 14:59:10 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM



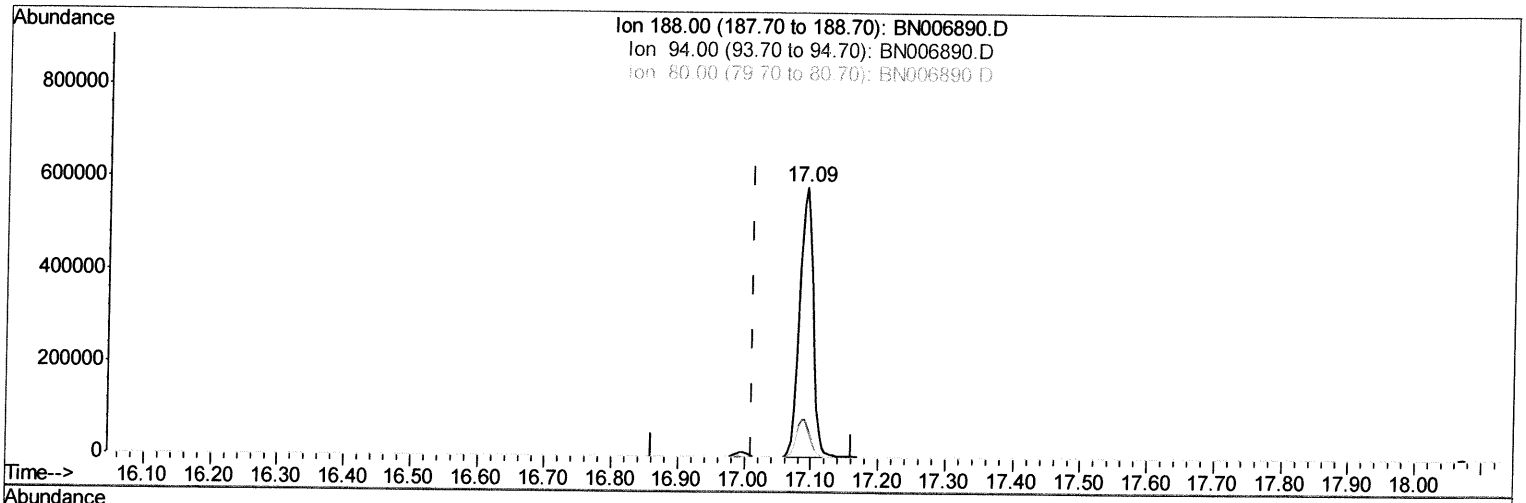
Quantitation Report (Qedit)

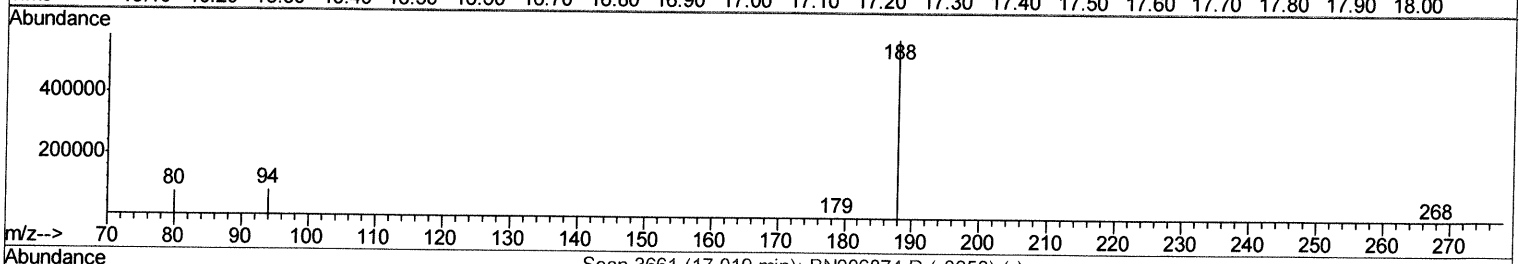
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

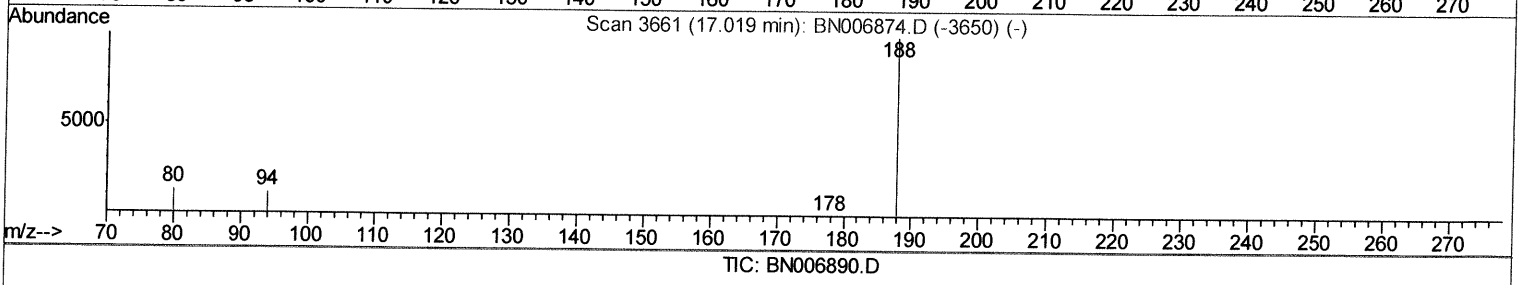
Quant Time: Jul 18 14:55:10 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM







(10) Phenanthrene-d10 (I)

17.090min (+0.080) 0.40ng/ul

response 817868

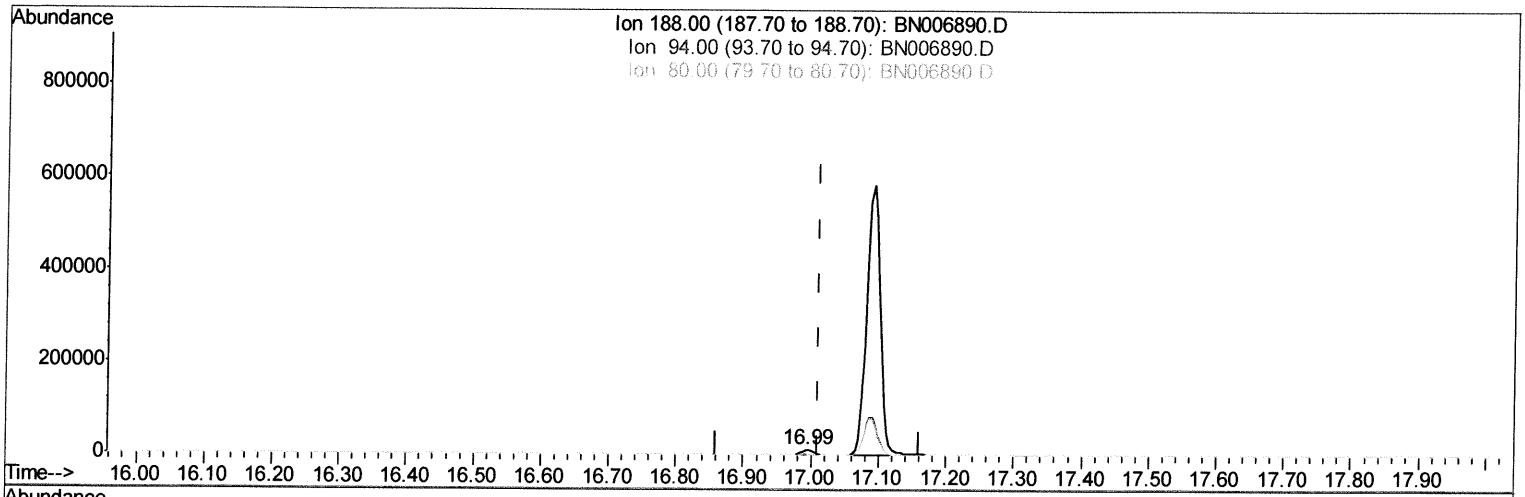
Ion	Exp%	Act%
188.00	100	100
94.00	13.70	13.99
80.00	14.80	13.14
0.00	0.00	0.00

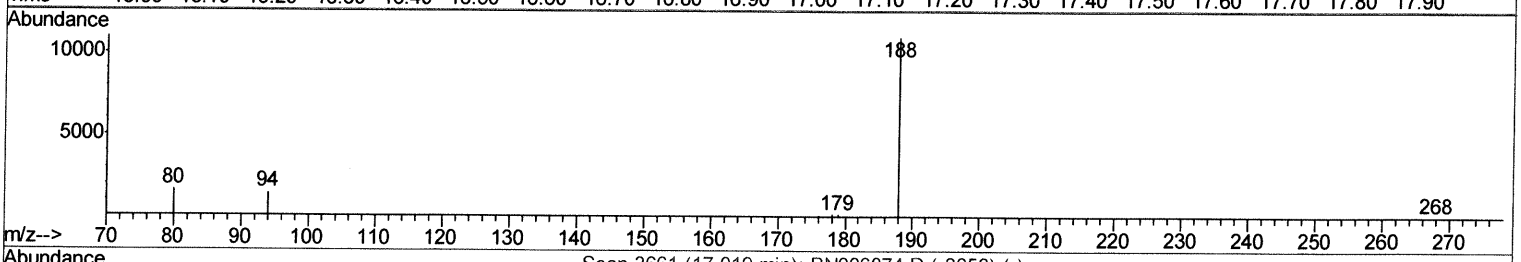
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

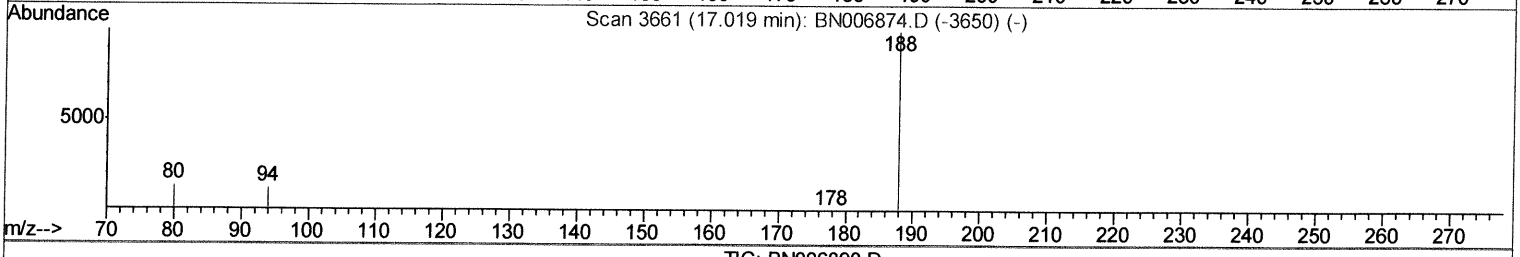
Quant Time: Jul 18 14:55:10 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM







TIC: BN006890.D

(10) Phenanthrene-d10 (I)

16.993min (-0.017) 0.40ng/ul m JU 07/19/19

response 14321

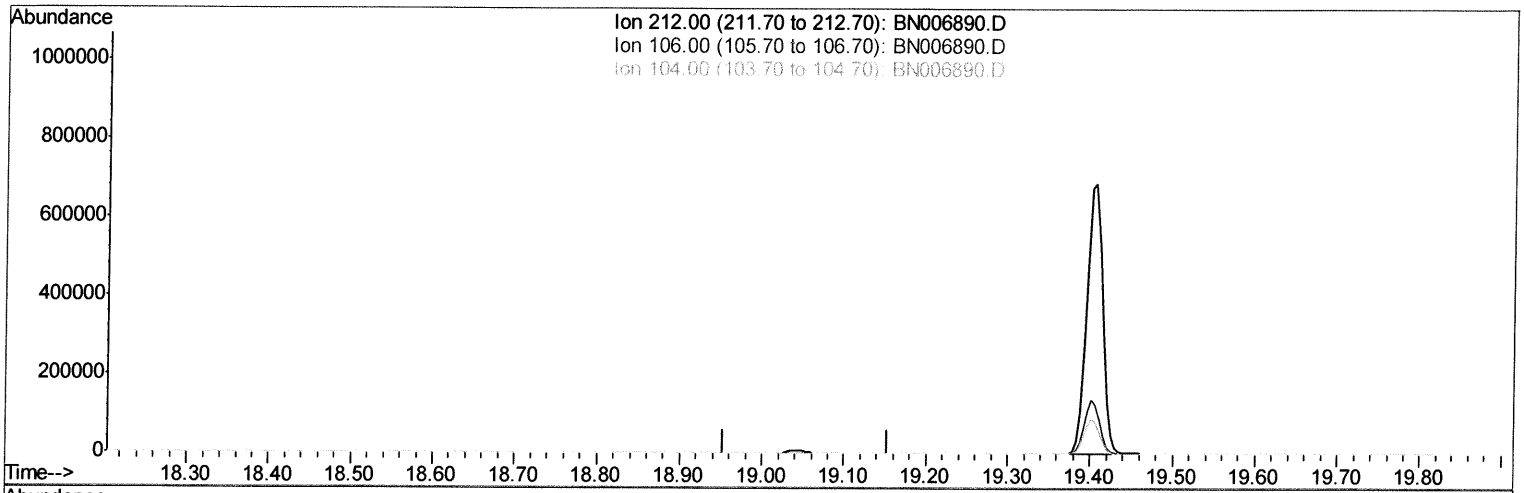
Ion	Exp%	Act%
188.00	100	100
94.00	13.70	12.73
80.00	14.80	14.74
0.00	0.00	0.00

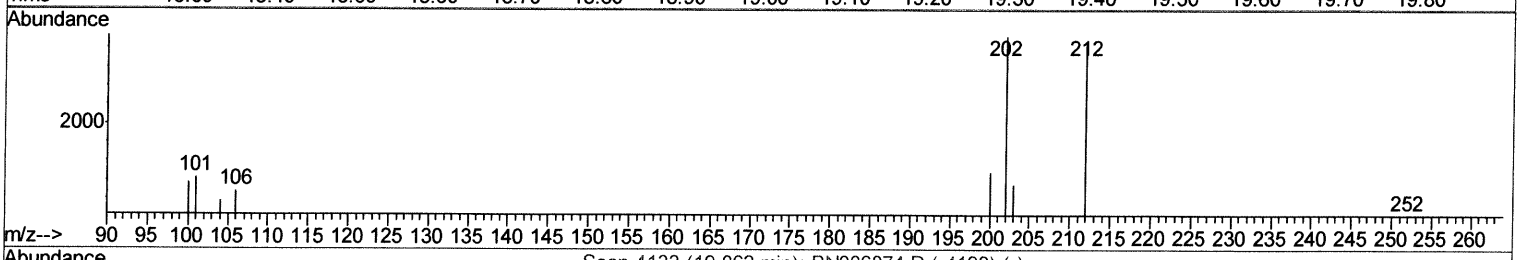
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

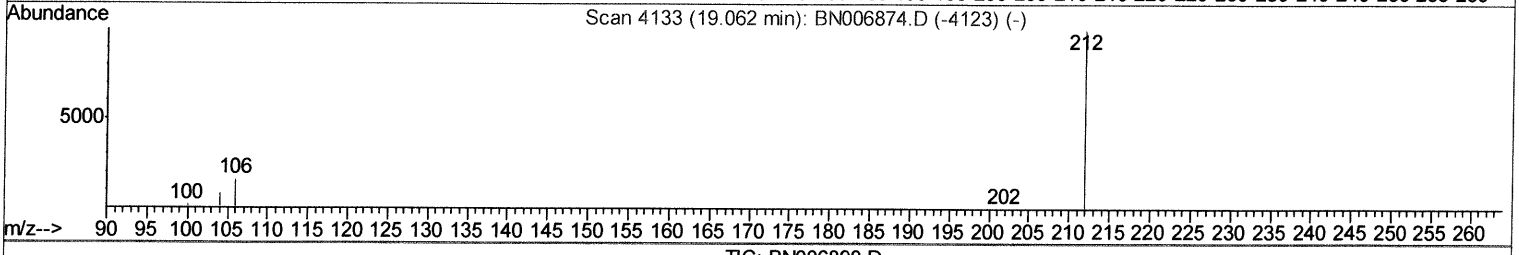
Quant Time: Jul 18 14:56:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM







TIC: BN006890.D

(14) Fluoranthene-d10 (SURR)

19.053min (-19.053) 0.00ng/ul

response 0

Ion	Exp%	Act%
212.00	100	0.00
106.00	17.80	0.00#
104.00	9.70	0.00#
0.00	0.00	0.00

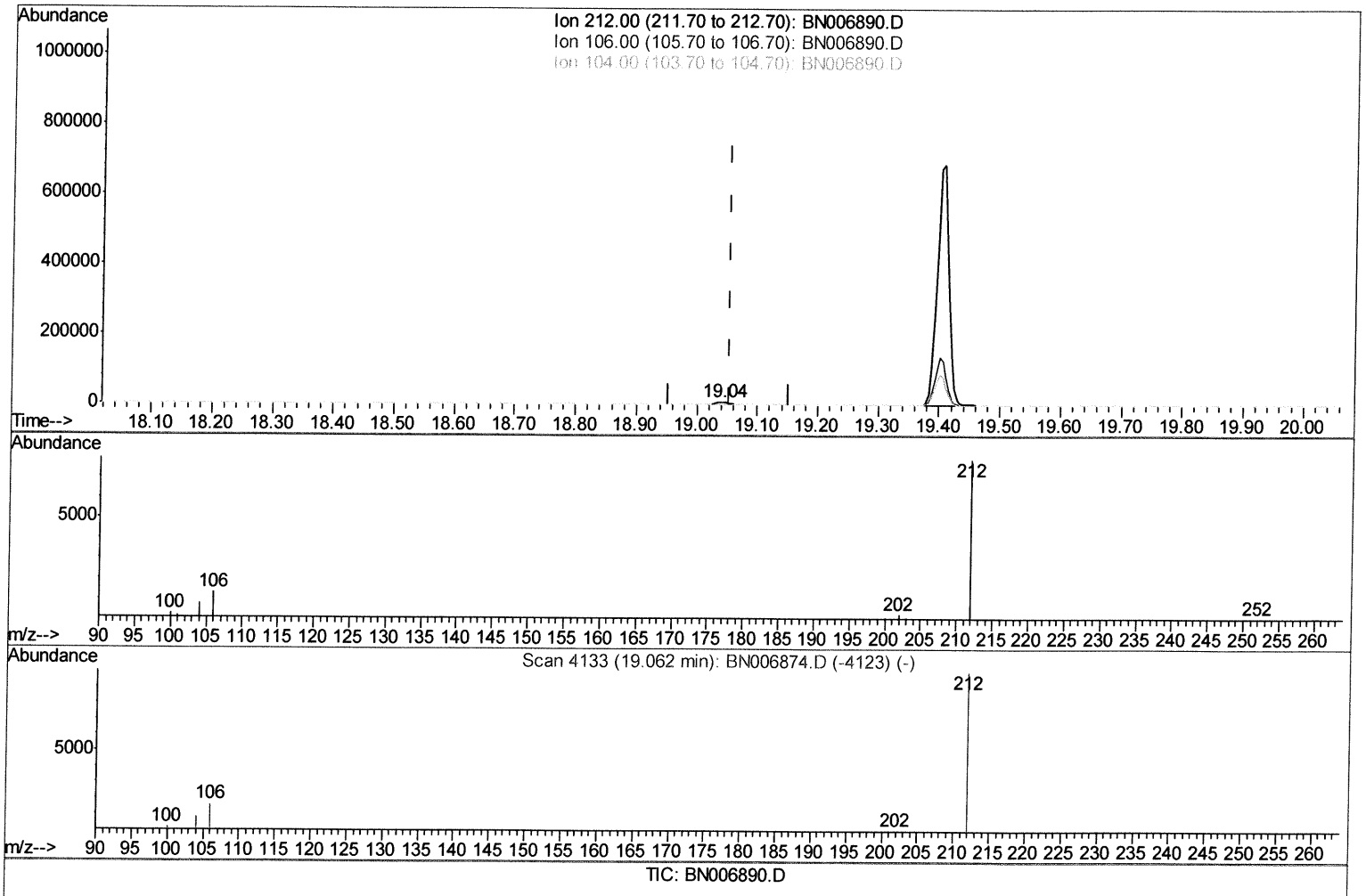
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 14:56:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM



TIC: BN006890.D

(14) Fluoranthene-d10 (SURR)

19.044min (-0.009) 0.26ng/ul m JU 07/19/19

response 10806

Ion	Exp%	Act%
212.00	100	100
106.00	17.80	0.00#
104.00	9.70	0.00#
0.00	0.00	0.00

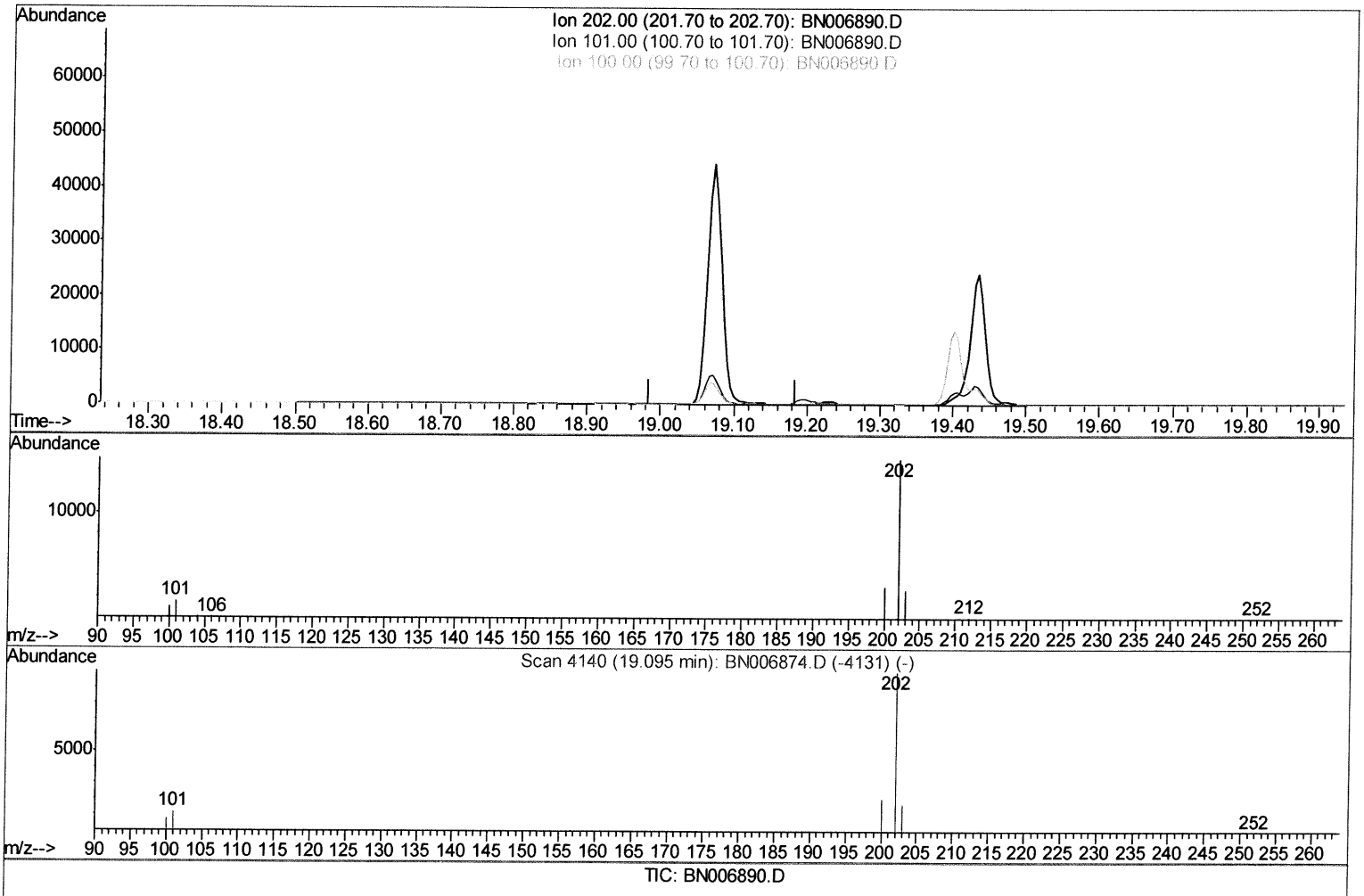
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 14:56:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM



TIC: BN006890.D

(15) Fluoranthene (C)

19.086min (-19.086) 0.00ng/ul

response 0

Ion	Exp%	Act%
202.00	100	0.00
101.00	13.20	0.00
100.00	9.90	0.00
0.00	0.00	0.00

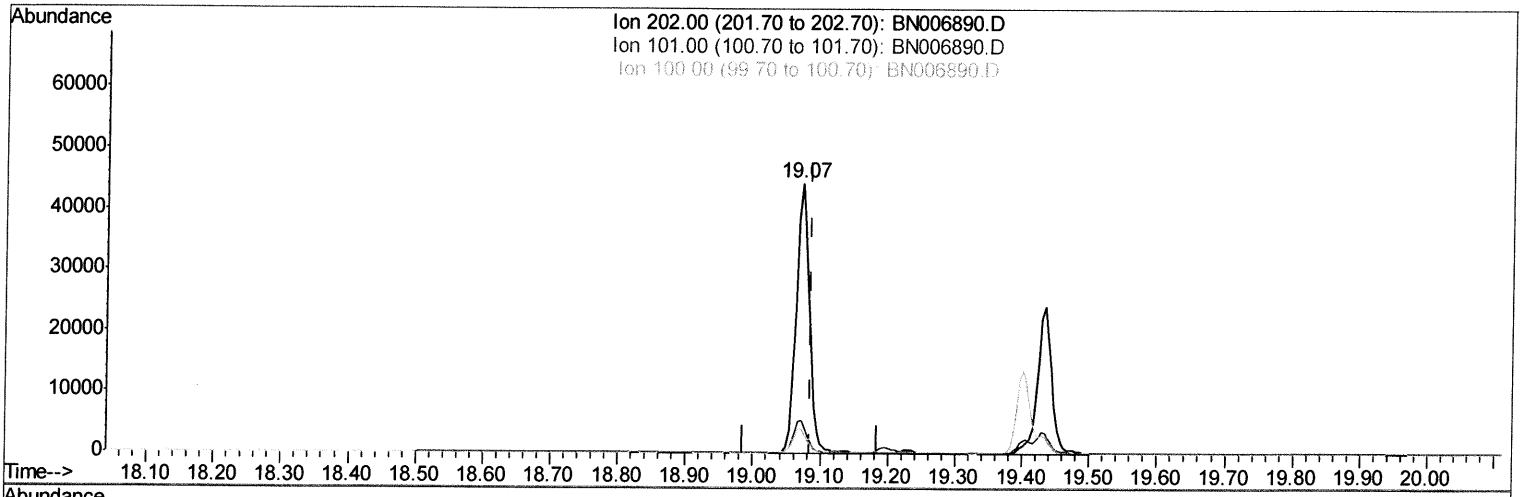
Quantitation Report (Qedit)

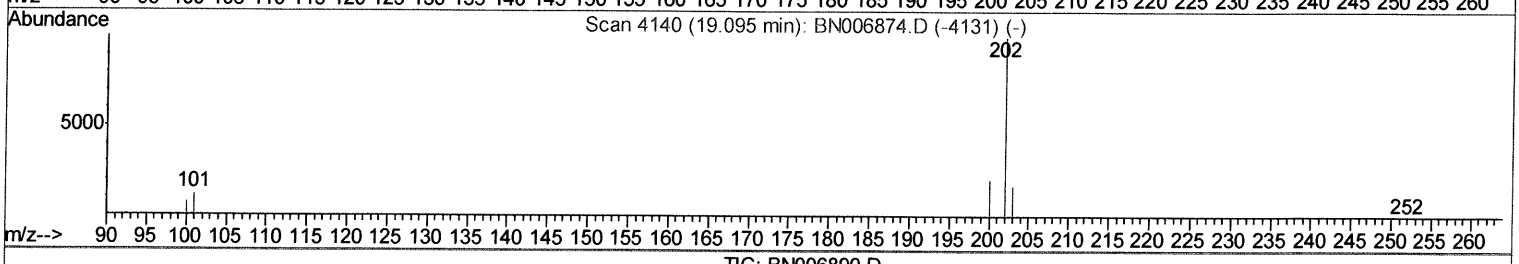
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 14:56:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM





TIC: BN006890.D

(15) Fluoranthene (C)

19.071min (-0.014) 1.06ng/ul m JU 07/19/19

response 60557

Ion	Exp%	Act%
202.00	100	100
101.00	13.20	12.32
100.00	9.90	9.10
0.00	0.00	0.00

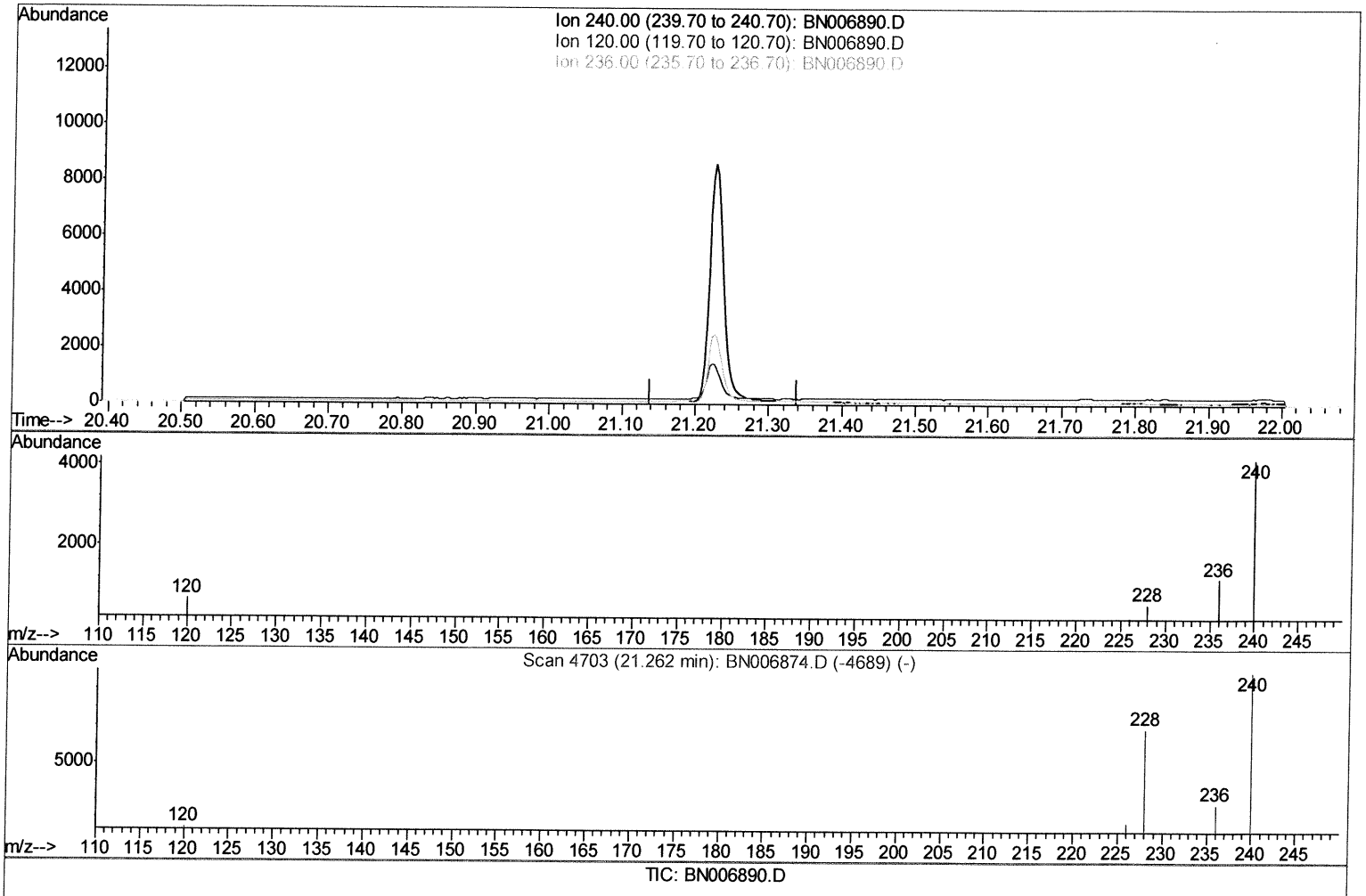
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 14:56:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM



(16) Chrysene-d12 (I)

21.239min (-21.239) 0.00ng/ul

response 0

Ion	Exp%	Act%
240.00	100	0.00
120.00	20.20	0.00#
236.00	30.00	0.00#
0.00	0.00	0.00

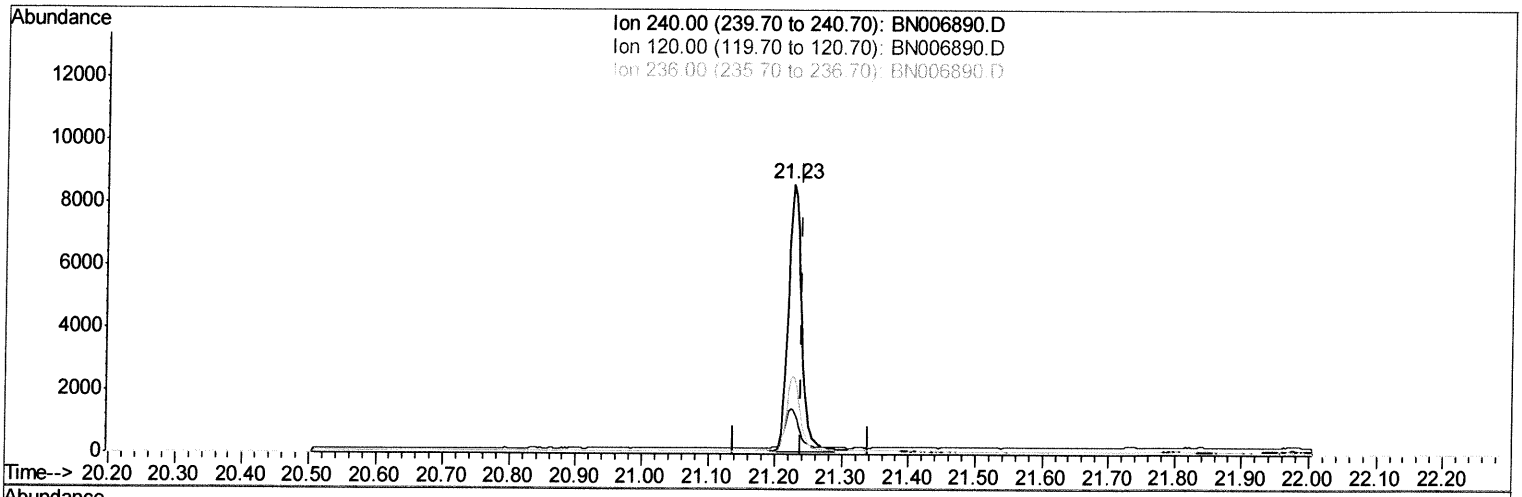
Quantitation Report (Qedit)

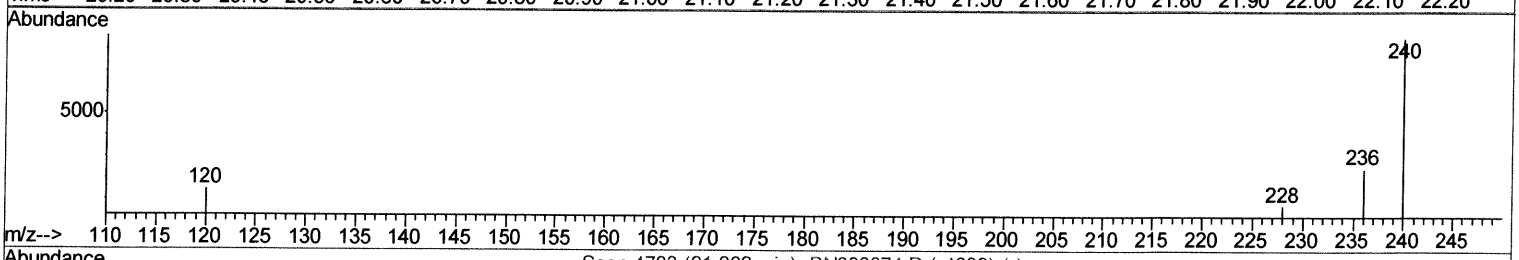
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

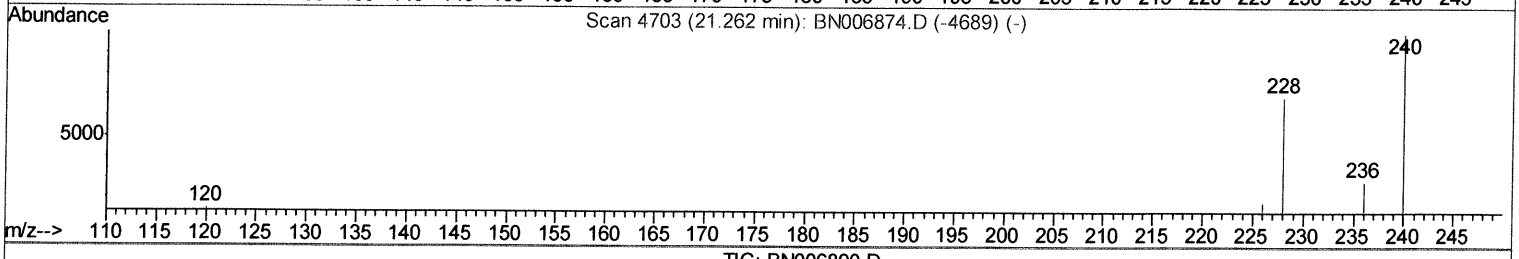
Quant Time: Jul 18 14:56:38 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM







TIC: BN006890.D

(16) Chrysene-d12 (I)

21.226min (-0.013) 0.40ng/ul m JU 07/19/19

response 11926

Ion	Exp%	Act%
240.00	100	100
120.00	20.20	16.89
236.00	30.00	29.16
0.00	0.00	0.00

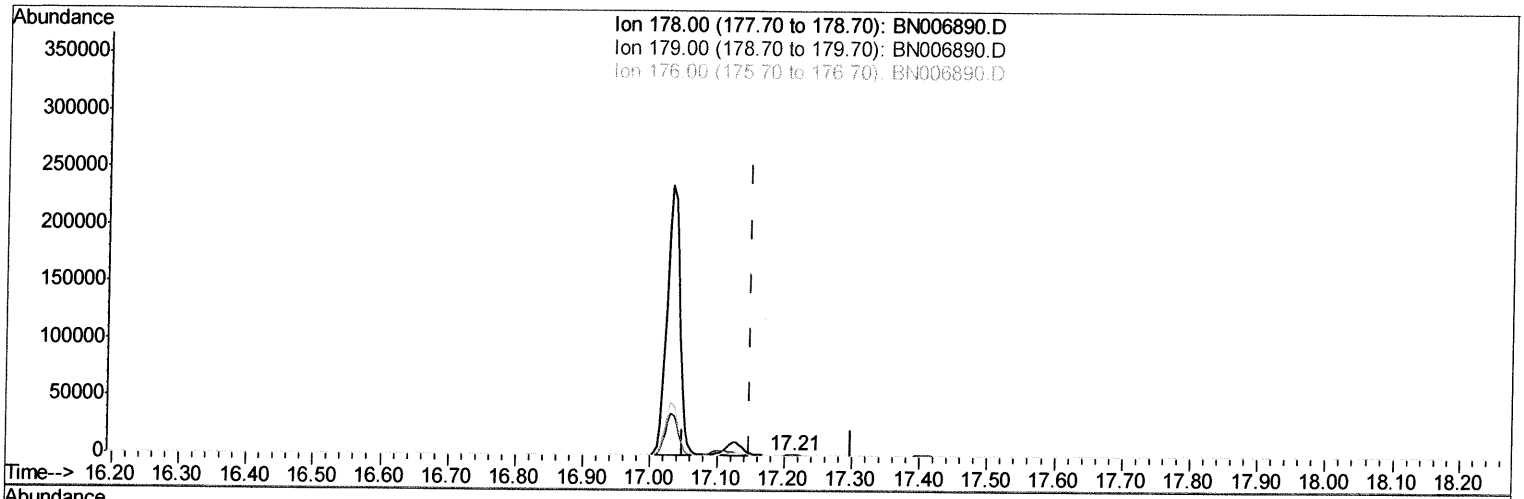
Quantitation Report (Qedit)

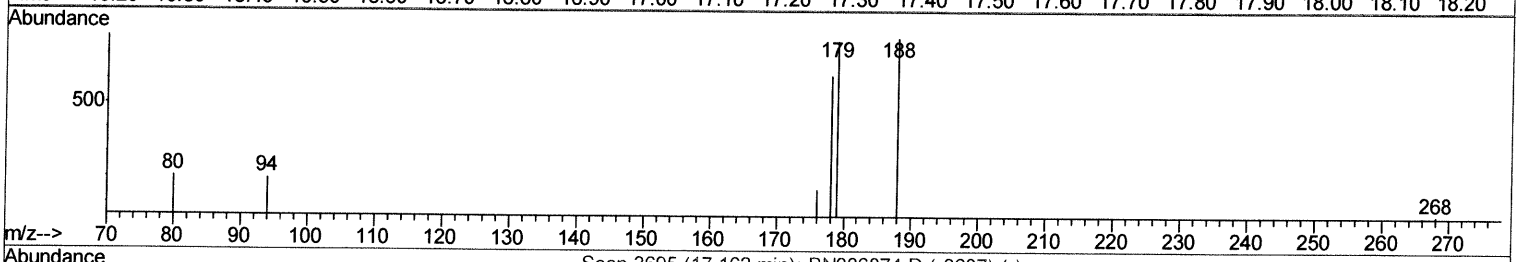
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

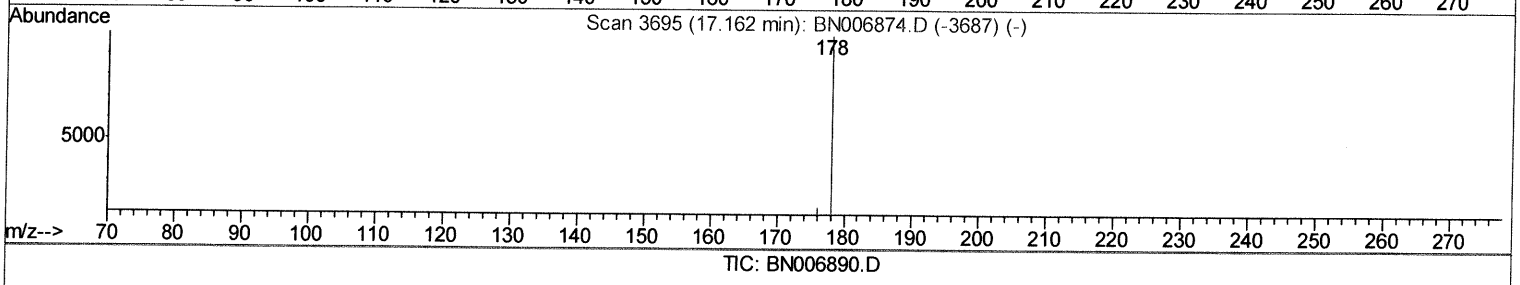
Quant Time: Jul 18 14:57:56 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM







TIC: BN006890.D

(13) Anthracene

17.213min (+0.063) 0.02ng/ul

response 638

Ion	Exp%	Act%
178.00	100	100
179.00	15.90	122.37#
176.00	19.70	25.77#
0.00	0.00	0.00

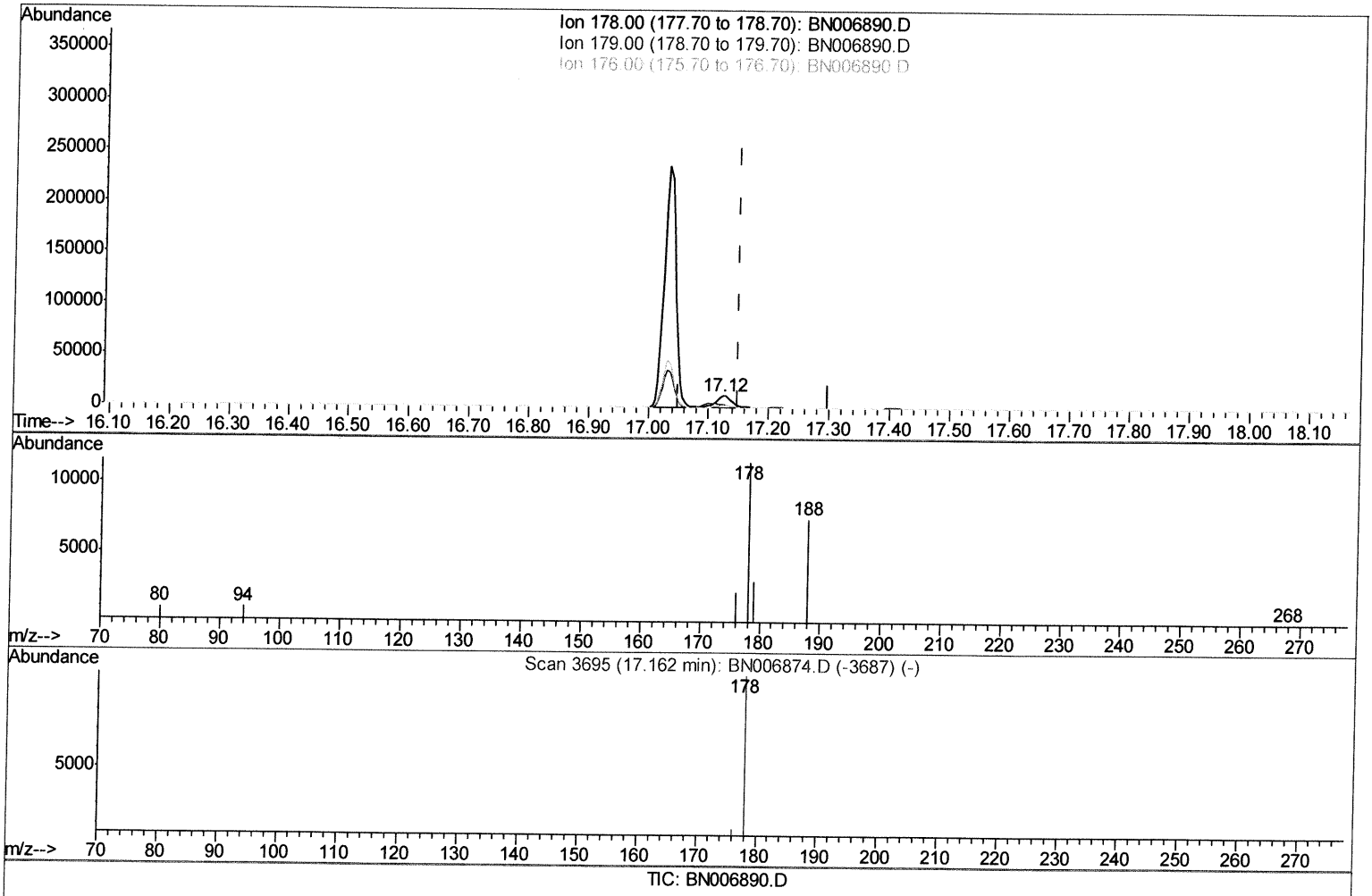
Quantitation Report (Qedit)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 14:57:56 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM



TIC: BN006890.D

(13) Anthracene

17.124min (-0.026) 0.53ng/ul m JU 07/19/19

response 20955

Ion	Exp%	Act%
178.00	100	100
179.00	15.90	25.40#
176.00	19.70	19.15
0.00	0.00	0.00

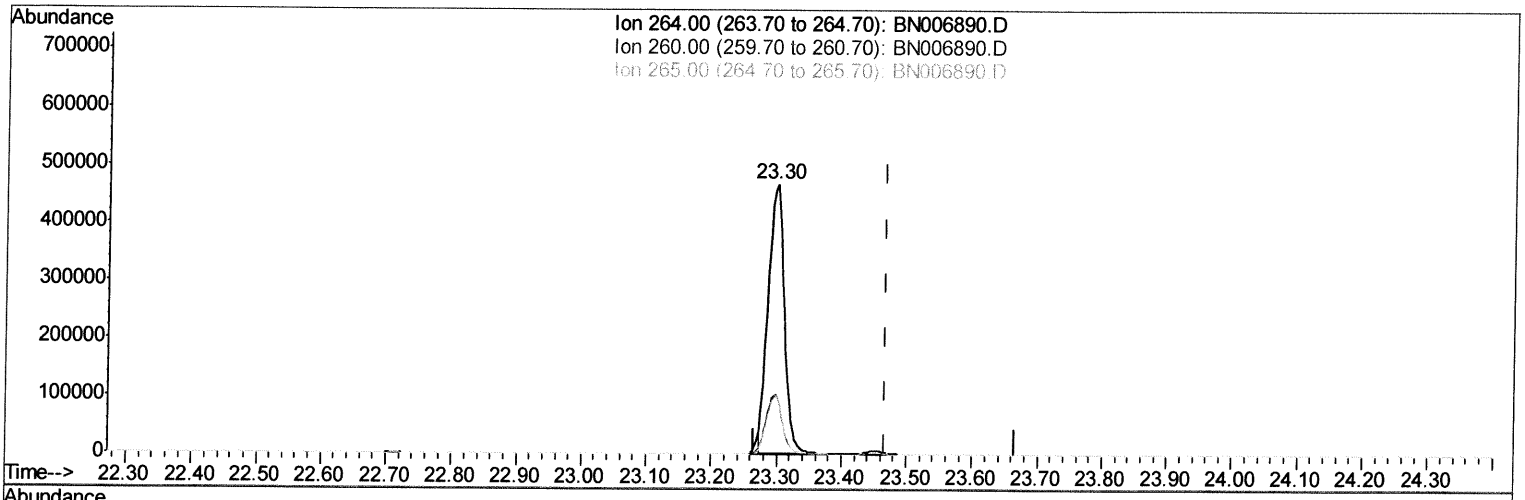
Quantitation Report (Qedit)

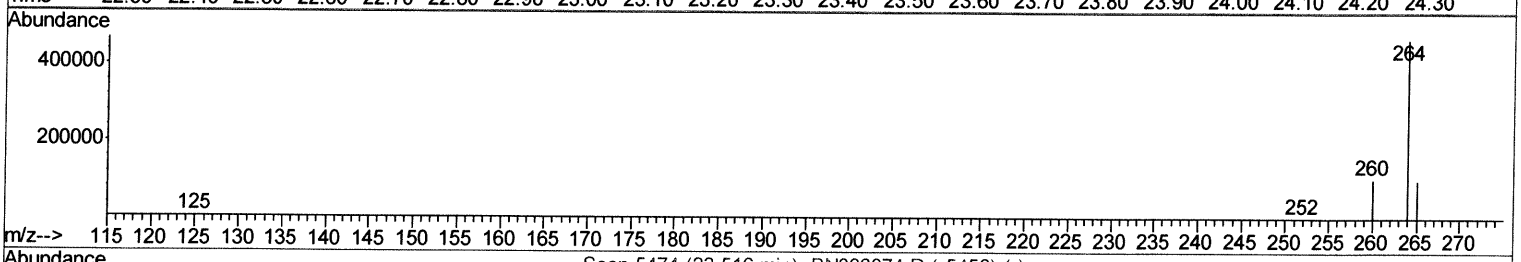
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

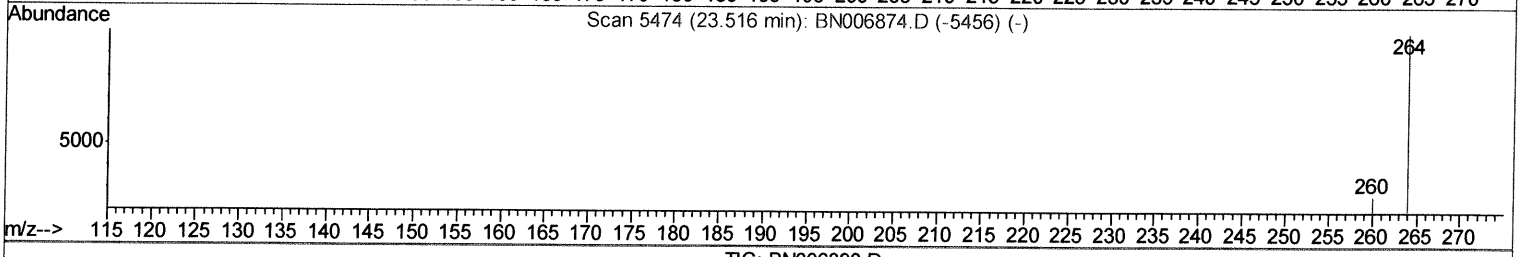
Quant Time: Jul 18 14:57:56 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM







TIC: BN006890.D

(20) Perylene-d12 (I)

23.298min (-0.168) 0.40ng/ul

response 810044

Ion	Exp%	Act%
264.00	100	100
260.00	27.80	22.30
265.00	36.10	21.65#
0.00	0.00	0.00

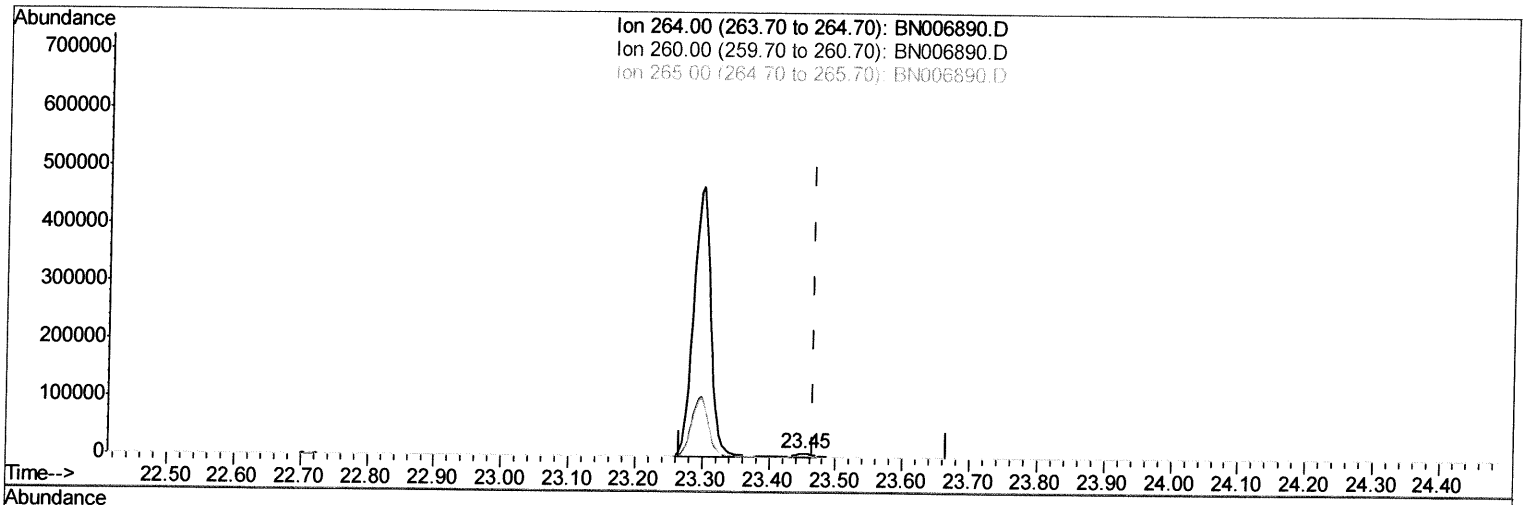
Quantitation Report (Qedit)

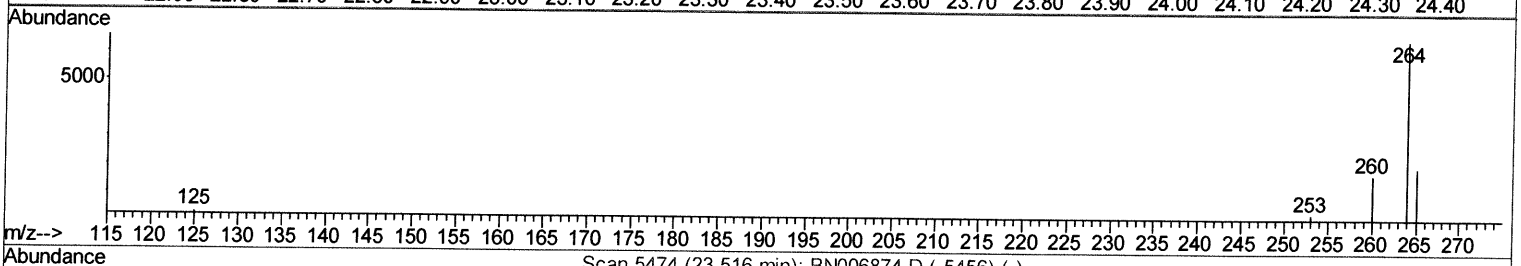
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

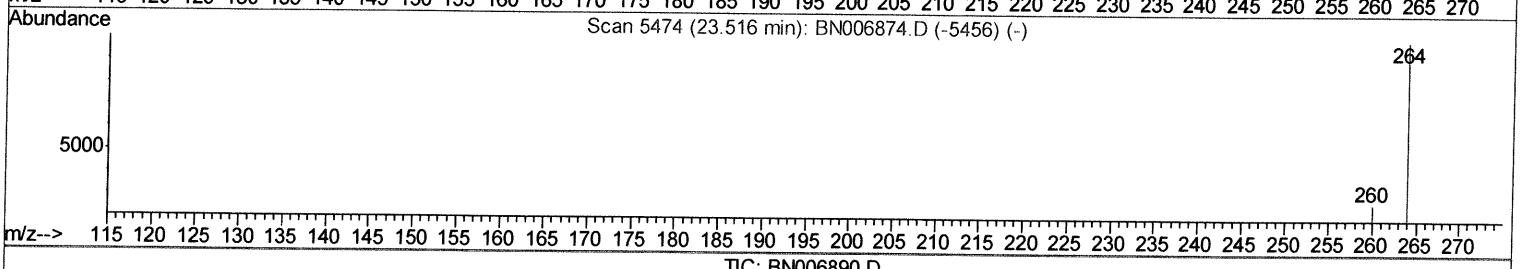
Quant Time: Jul 18 14:57:56 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM







(20) Perylene-d12 (I)

23.450min (-0.016) 0.40ng/ul m JU 07/19/19

response 10674

Ion	Exp%	Act%
264.00	100	100
260.00	27.80	26.86
265.00	36.10	30.97
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071819\
Data File : BN006890.D
Acq On : 18 Jul 2019 14:23
Operator : HP/JU
Sample : K3822-11
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 18 14:59:10 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN062719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 12 06:39:20 2019
Response via : Initial Calibration

Instrument : BNA_N
ClientSampleId : BF4B2

Manual Integrations APPROVED
mohammad
7/19/2019 3:59:20 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	3252	0.40	ng/ul	-0.01
2) Naphthalene-d8	10.35	136	12092	0.40	ng/ul	-0.02
6) Acenaphthene-d10	14.23	164	6734	0.40	ng/ul	0.00
10) Phenanthrene-d10	16.99	188	14321m	0.40	ng/ul	-0.02
16) Chrysene-d12	21.23	240	11926m	0.40	ng/ul	-0.01
20) Perylene-d12	23.45	264	10674m	0.40	ng/ul	-0.02
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.95	152	4554	0.24	ng/ul	-0.02
14) Fluoranthene-d10	19.04	212	10806m	0.26	ng/ul	0.00
Target Compounds						Qvalue
3) Naphthalene	10.39	128	839998	24.196	ng/ul	99
5) 2-Methylnaphthalene	12.02	142	117604	5.014	ng/ul	99
7) Acenaphthylene	13.94	152	7128	0.205	ng/ul#	92
8) Acenaphthene	14.29	153	98721	3.685	ng/ul	100
9) Fluorene	15.29	166	109215	3.720	ng/ul	100
12) Phenanthrene	17.03	178	320125	6.949	ng/ul	99
13) Anthracene	17.12	178	20955m	0.526	ng/ul	
15) Fluoranthene	19.07	202	60557m	1.063	ng/ul	
17) Pyrene	19.43	202	36786	0.675	ng/ul	98
18) Benzo(a)anthracene	21.21	228	3180	0.065	ng/ul#	93

JV 07/19/19

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