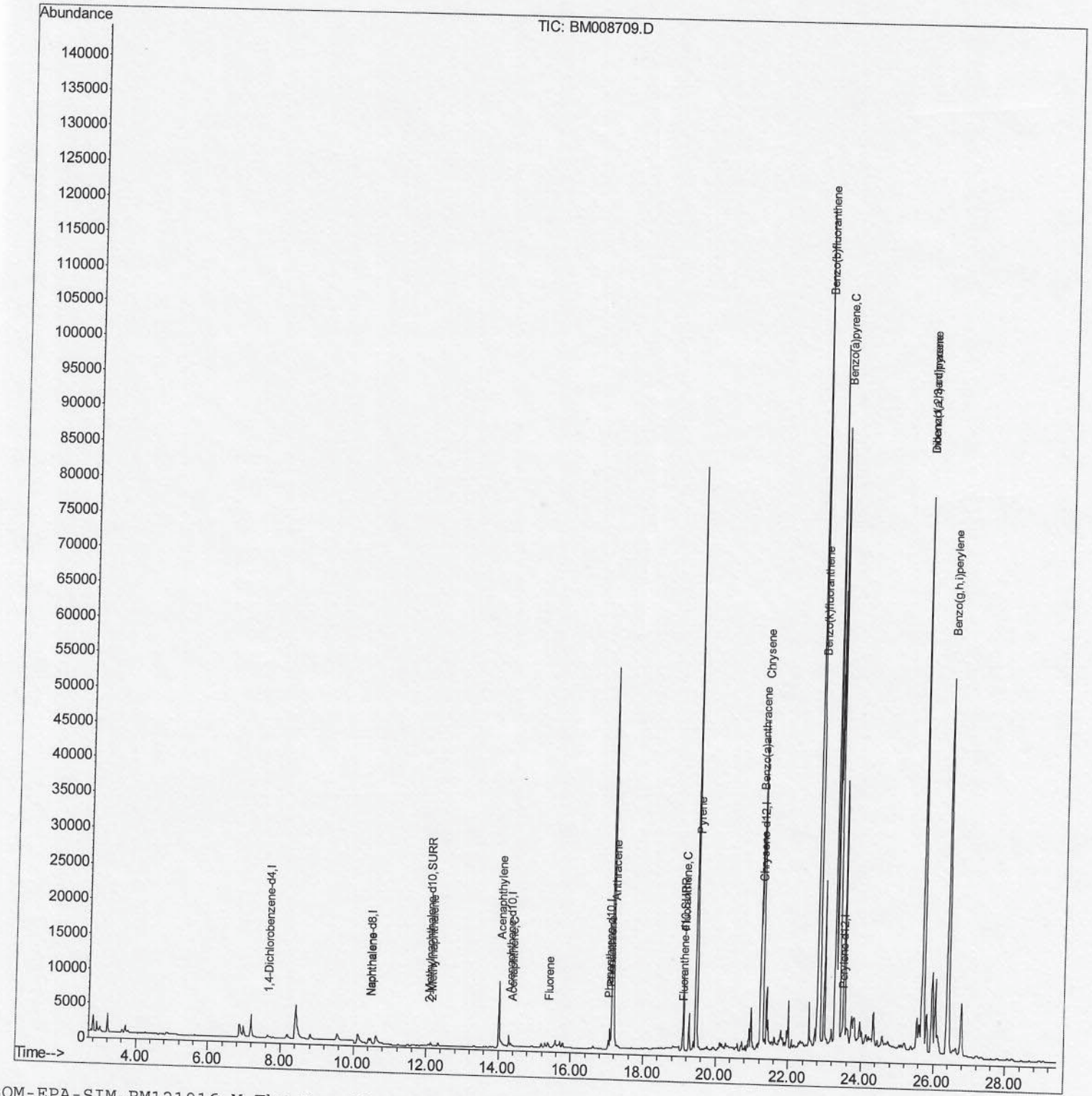
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:49:13 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



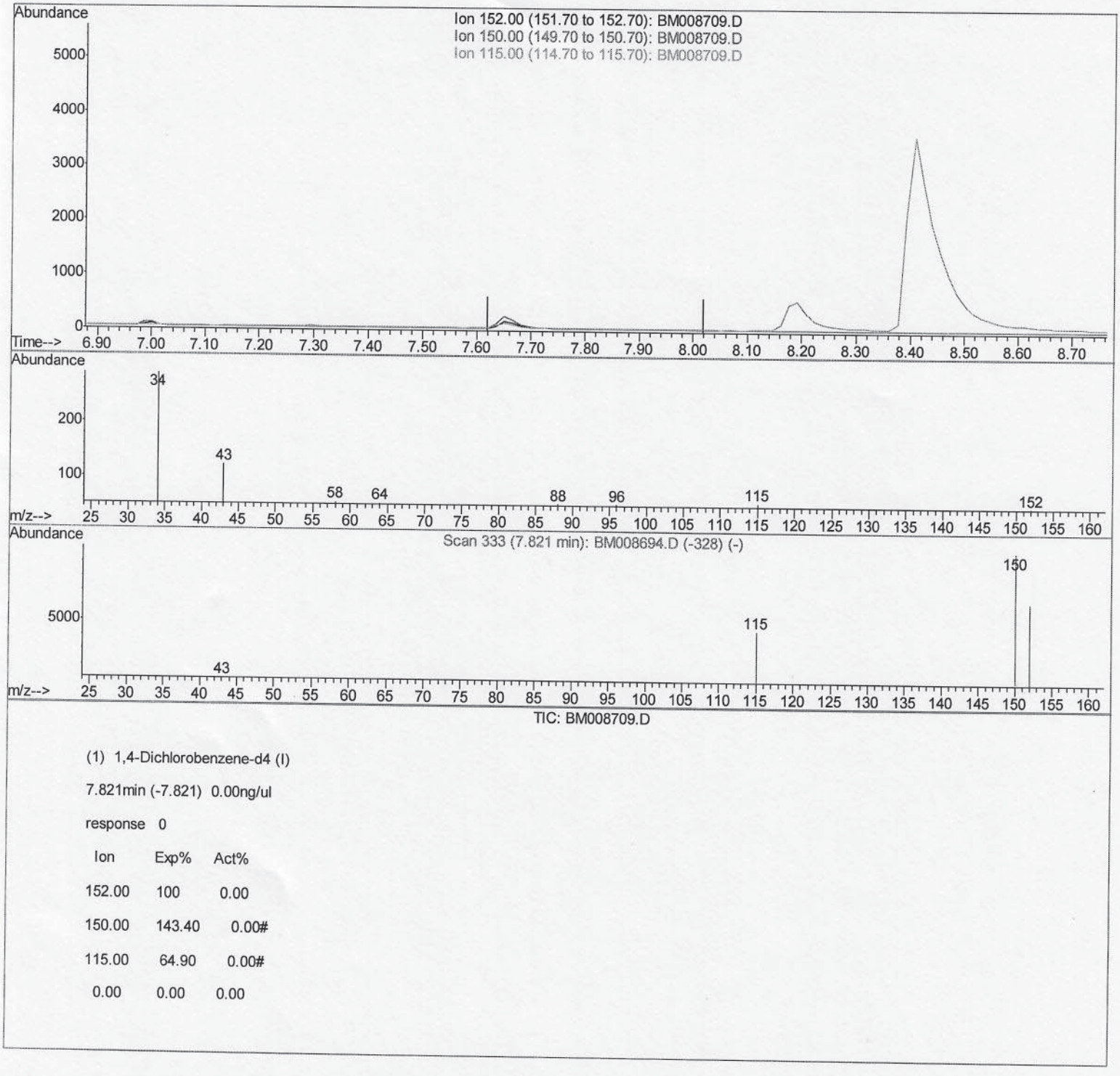
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:06:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



TIC: BM008709.D

(1) 1,4-Dichlorobenzene-d4 (I)

7.821min (-7.821) 0.00ng/ul

response 0

Ion	Exp%	Act%
152.00	100	0.00
150.00	143.40	0.00#
115.00	64.90	0.00#
0.00	0.00	0.00

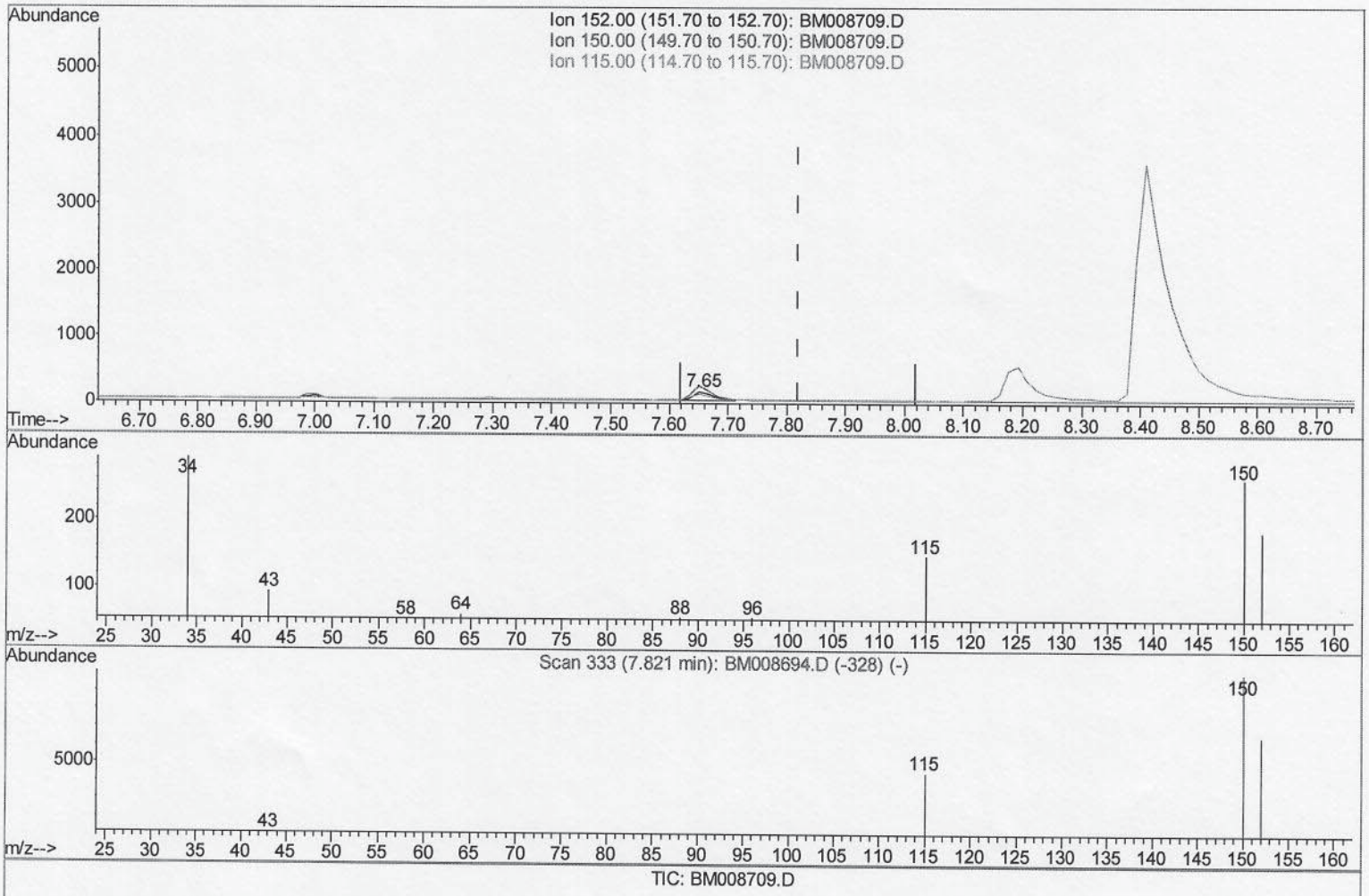
Quantification Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:06:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



TIC: BM008709.D

(1) 1,4-Dichlorobenzene-d4 (I)

7.650min (-0.170) 0.40ng/ul m

response 351

Ion	Exp%	Act%
152.00	100	100
150.00	143.40	141.08
115.00	64.90	80.54#
0.00	0.00	0.00

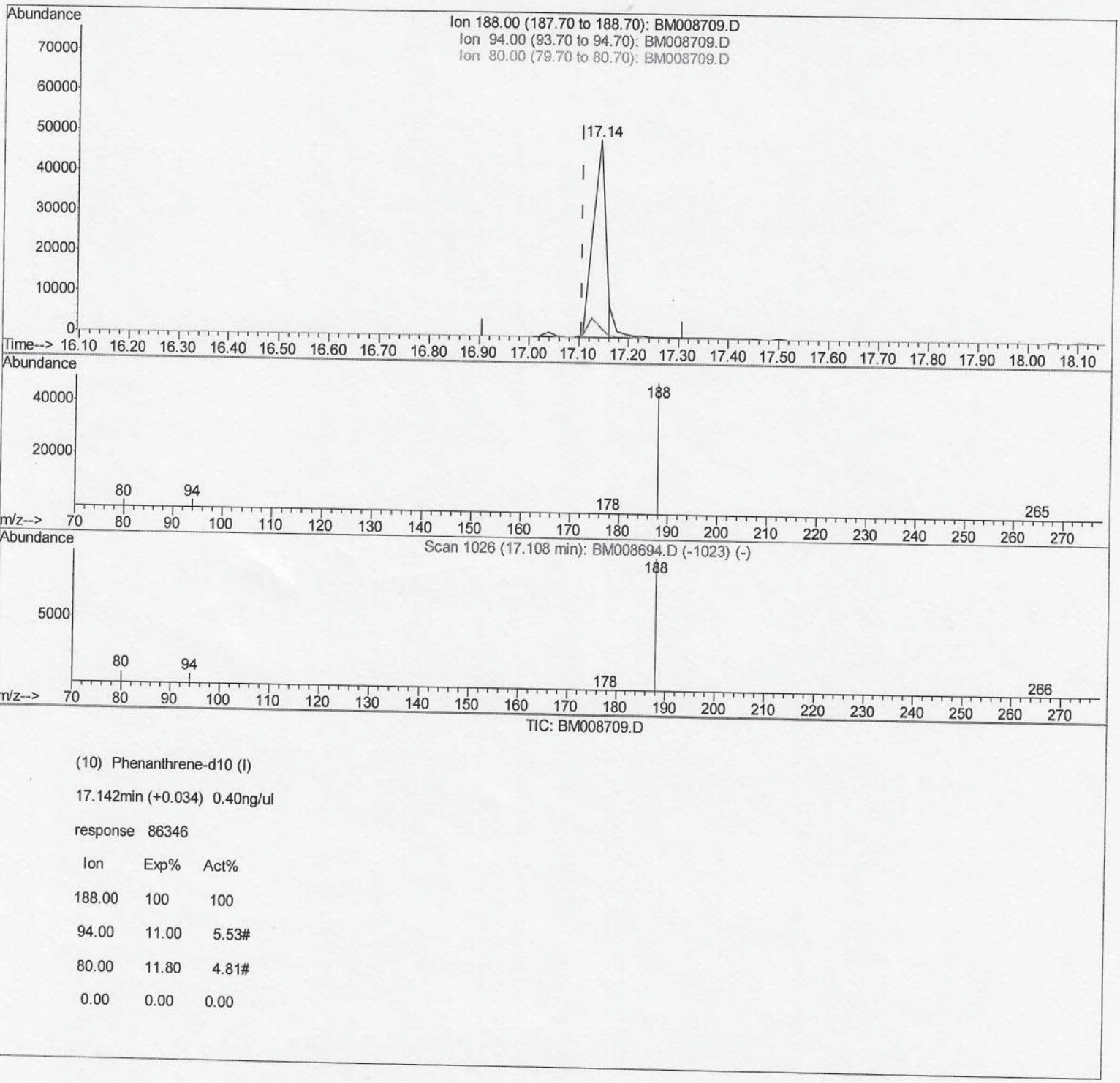
S.J
12/30/16

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:06:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



(10) Phenanthrene-d10 (I)

17.142min (+0.034) 0.40ng/ul

response 86346

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	5.53#
80.00	11.80	4.81#
0.00	0.00	0.00

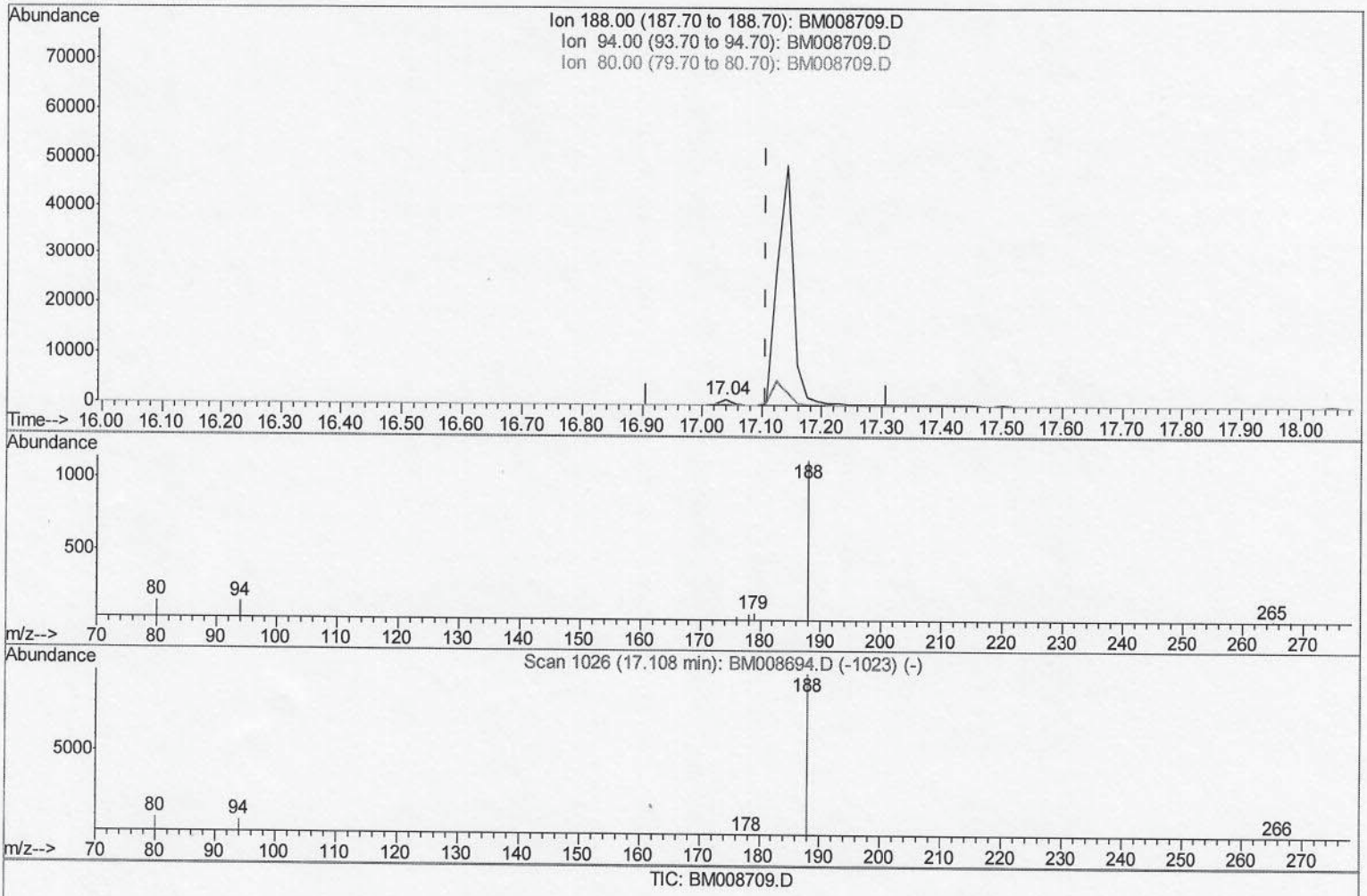
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:06:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



TIC: BM008709.D

(10) Phenanthrene-d10 (I)

17.039min (-0.069) 0.40ng/ul m > S.J. 12/30/16

response 1707

Ion	Exp%	Act%
188.00	100	100
94.00	11.00	13.96#
80.00	11.80	14.31#
0.00	0.00	0.00

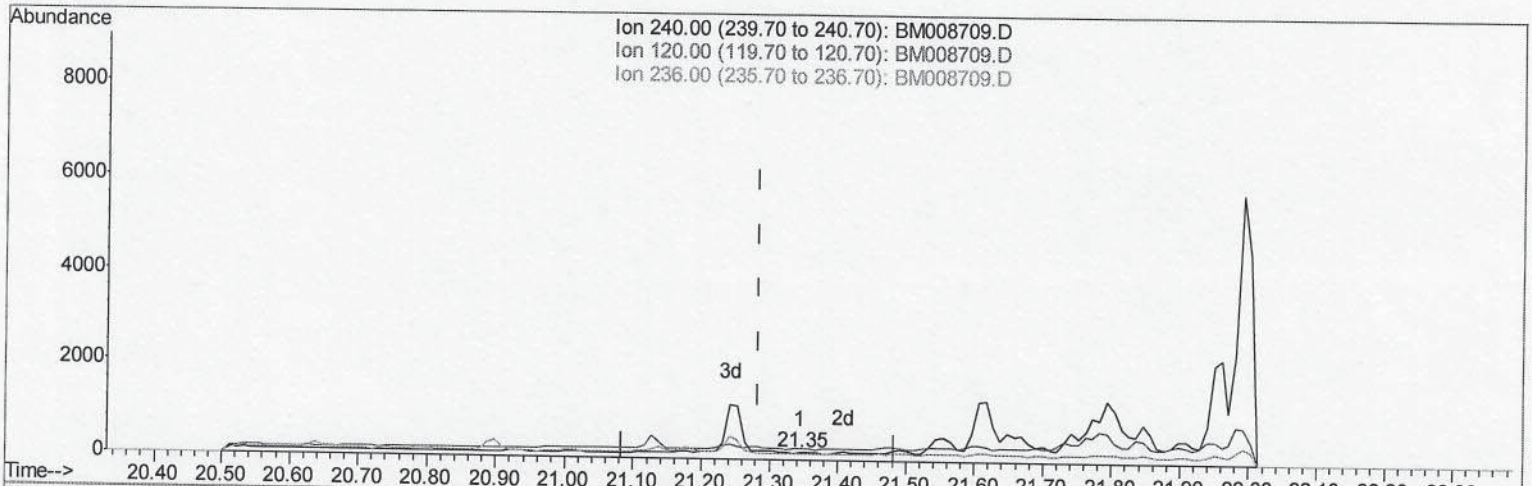
Quantification Report (Qedit)

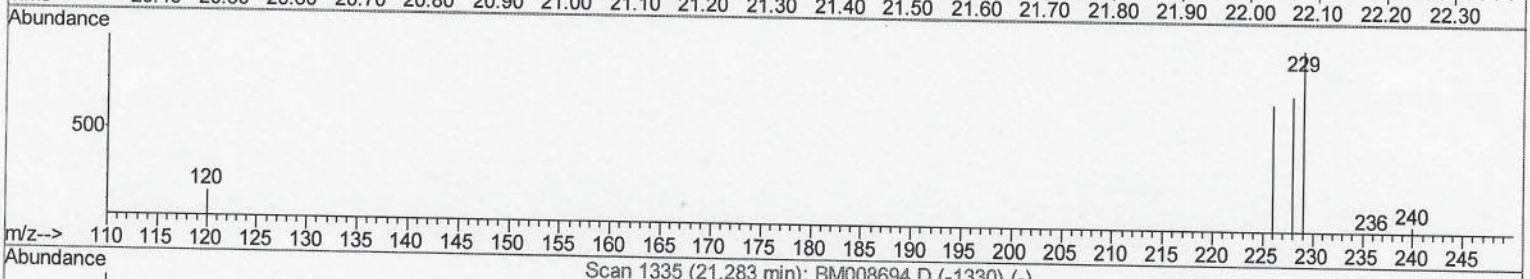
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

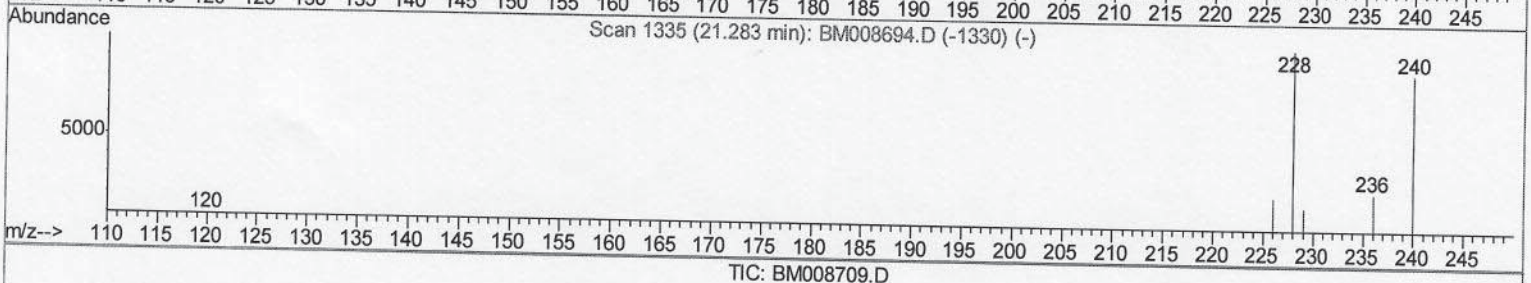
Quant Time: Dec 29 05:06:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM







(16) Chrysene-d12 (I)

21.346min (+0.063) 0.40ng/ul

response 61

Ion	Exp%	Act%
240.00	100	100
120.00	20.60	146.11#
236.00	34.90	85.03#
0.00	0.00	0.00

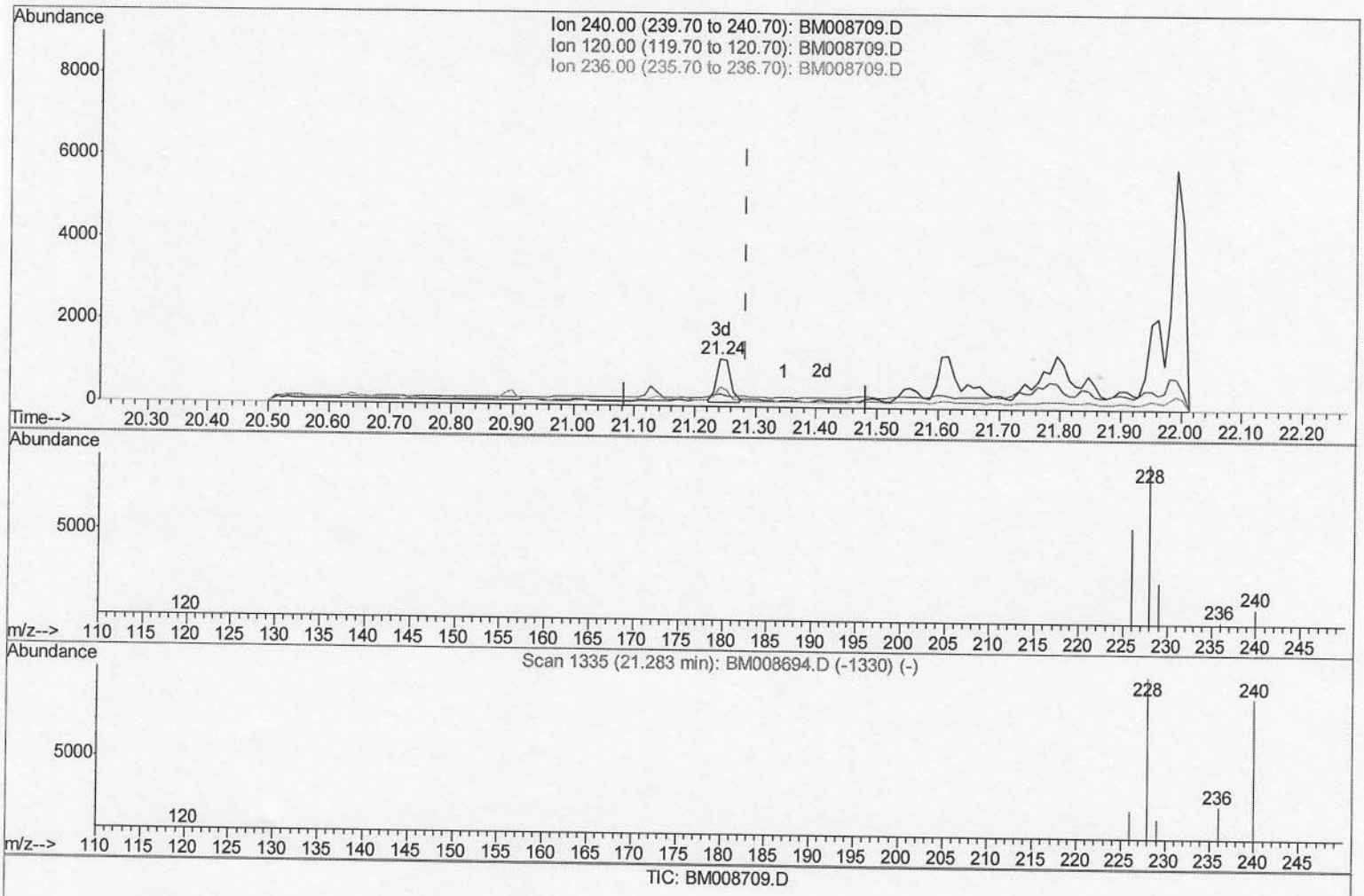
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:06:32 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



TIC: BM008709.D

(16) Chrysene-d12 (I)

21.242min (-0.042) 0.40ng/ul m

response 1692

S.J
12/30/16

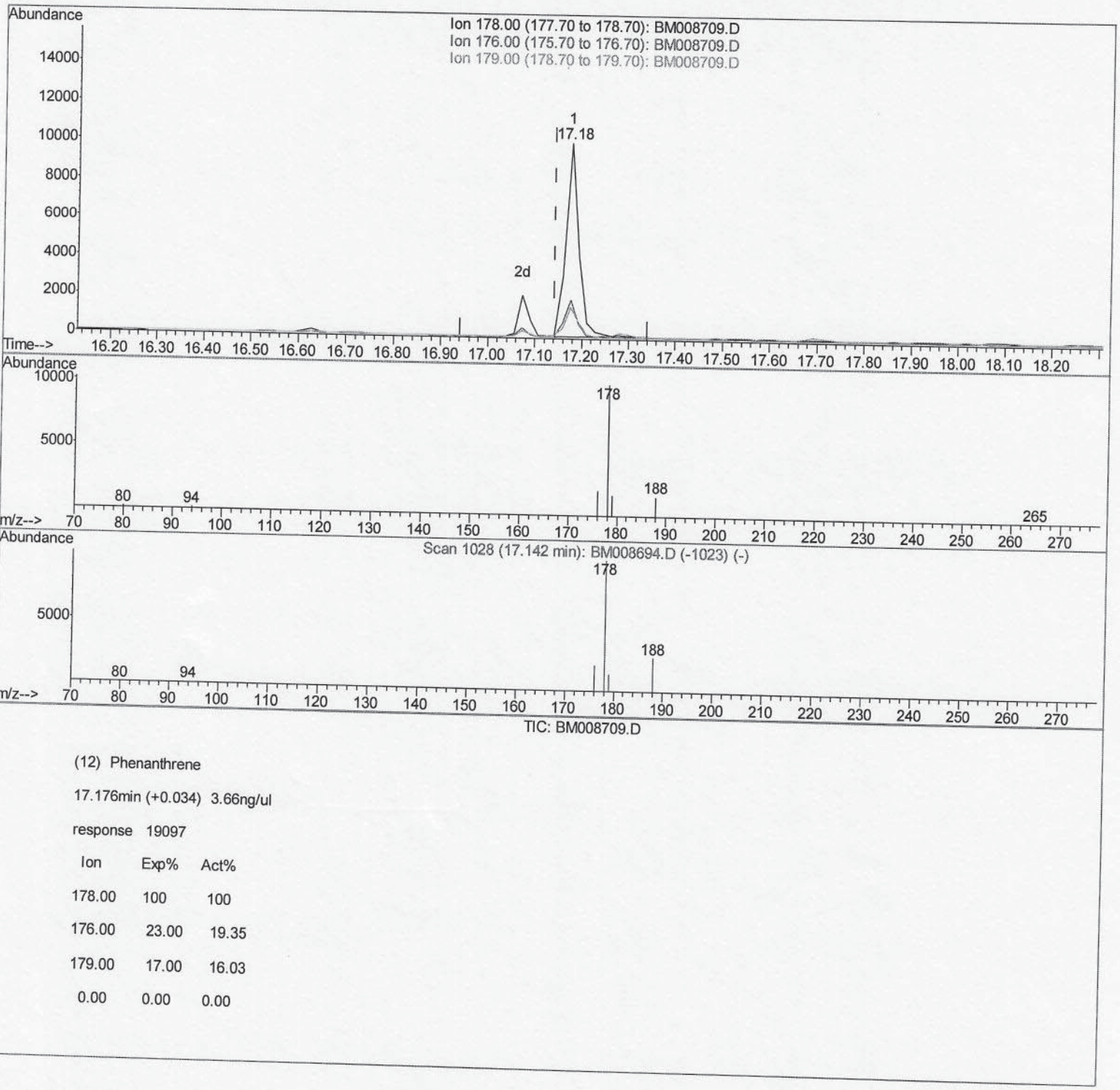
Ion	Exp%	Act%
240.00	100	100
120.00	20.60	28.22#
236.00	34.90	40.57
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



(12) Phenanthrene

17.176min (+0.034) 3.66ng/ul

response 19097

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	19.35
179.00	17.00	16.03
0.00	0.00	0.00

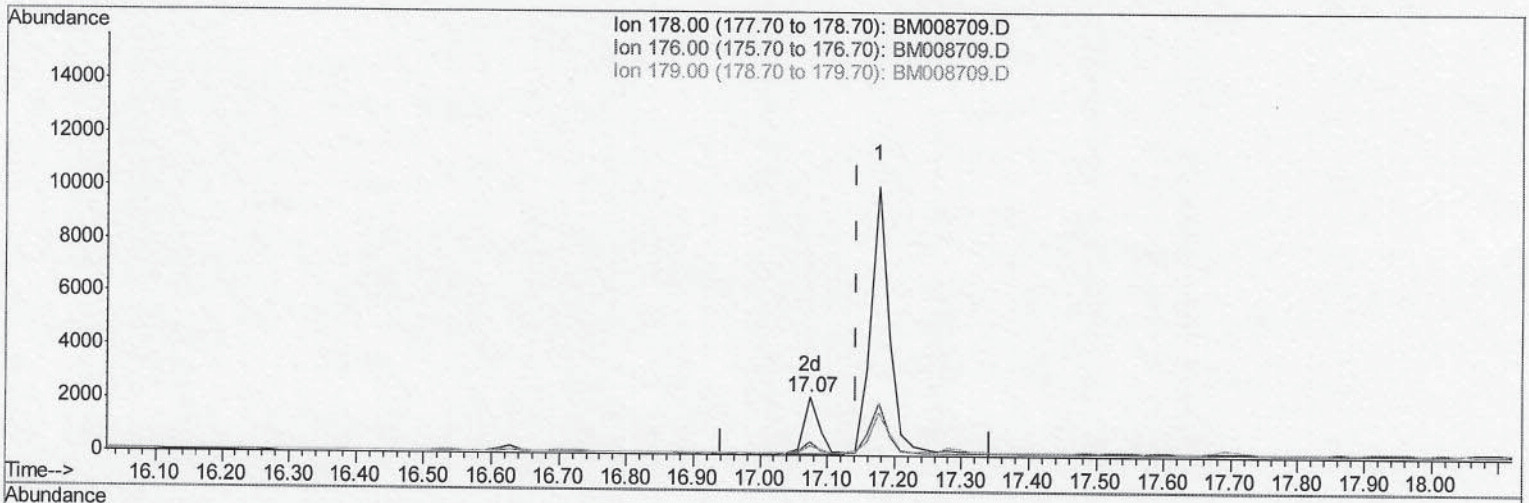
Quantitation Report (Qedit)

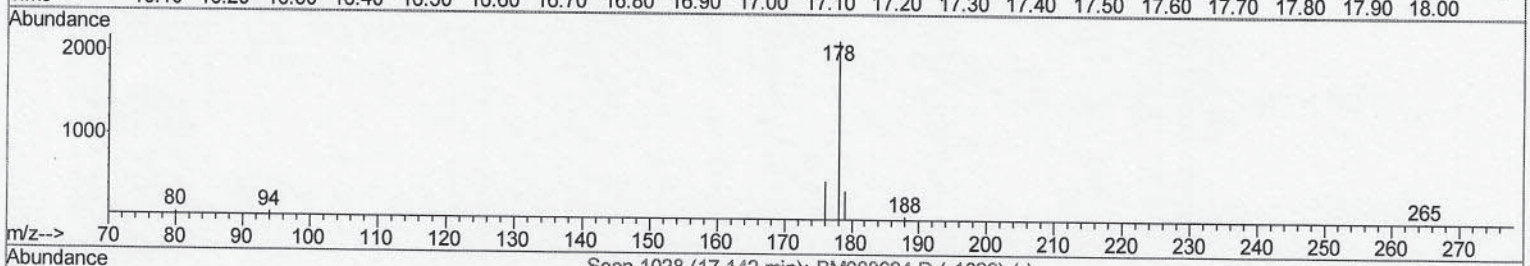
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

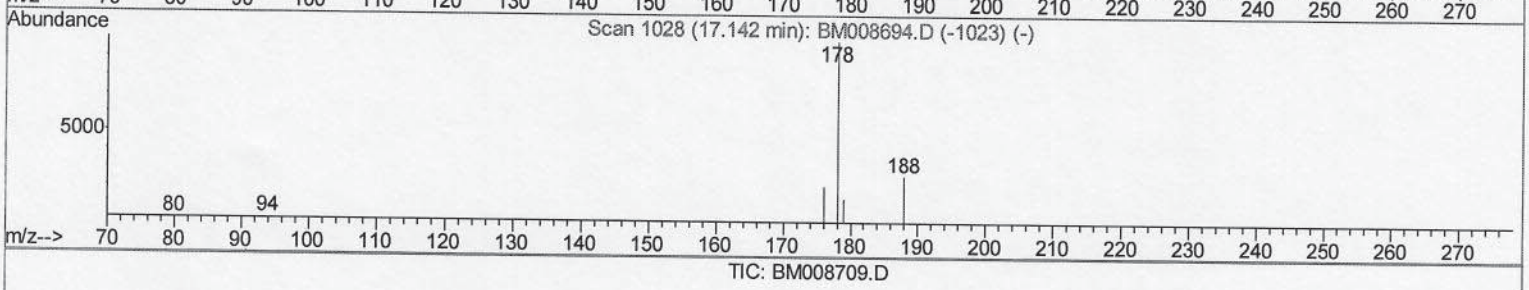
Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM







TIC: BM008709.D

(12) Phenanthrene

17.073min (-0.069) 0.65ng/ul m

response 3402

S.J. 12/30/16

Ion	Exp%	Act%
178.00	100	100
176.00	23.00	23.11
179.00	17.00	17.76
0.00	0.00	0.00

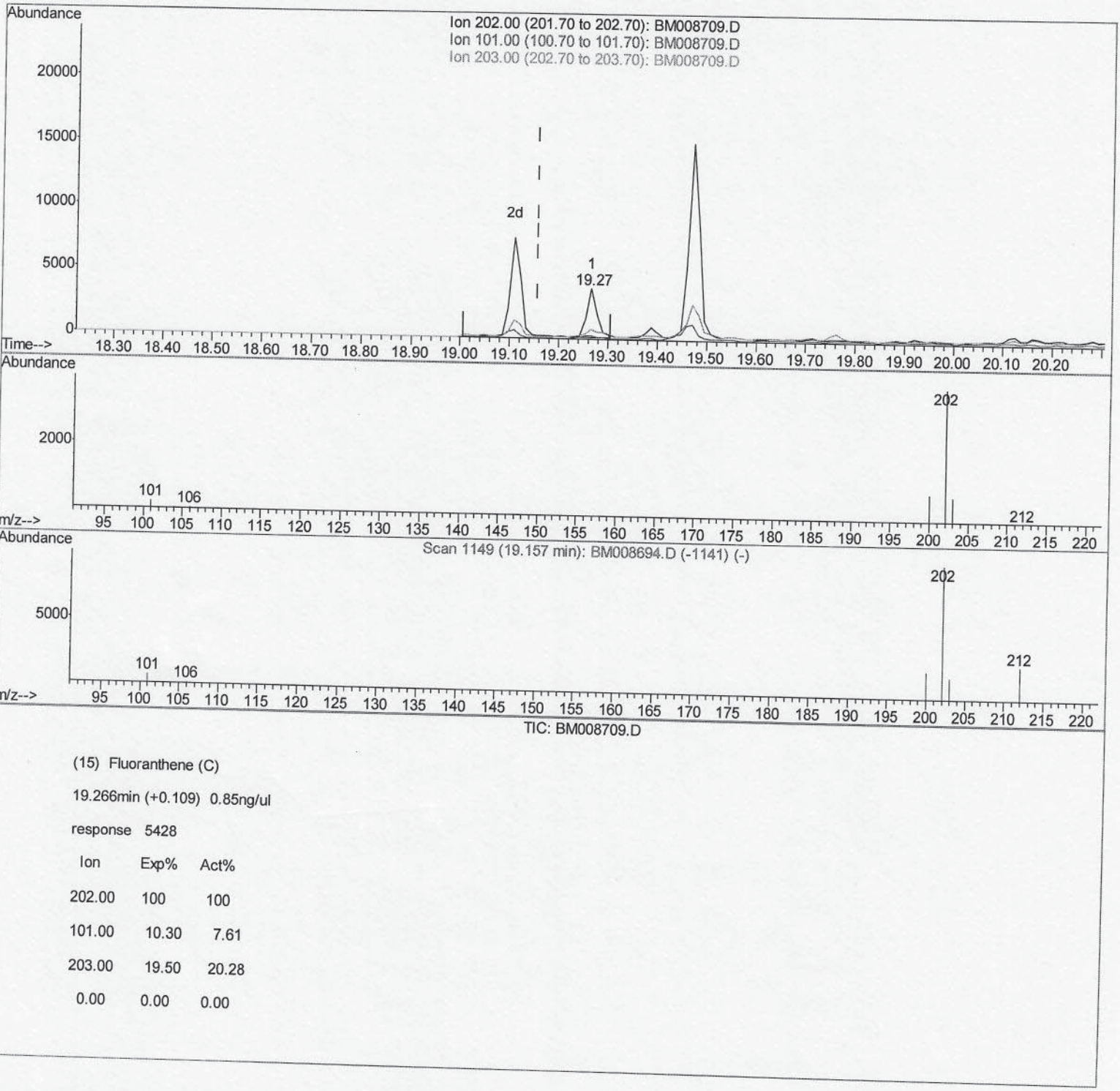
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



(15) Fluoranthene (C)

19.266min (+0.109) 0.85ng/ul

response 5428

Ion	Exp%	Act%
202.00	100	100
101.00	10.30	7.61
203.00	19.50	20.28
0.00	0.00	0.00

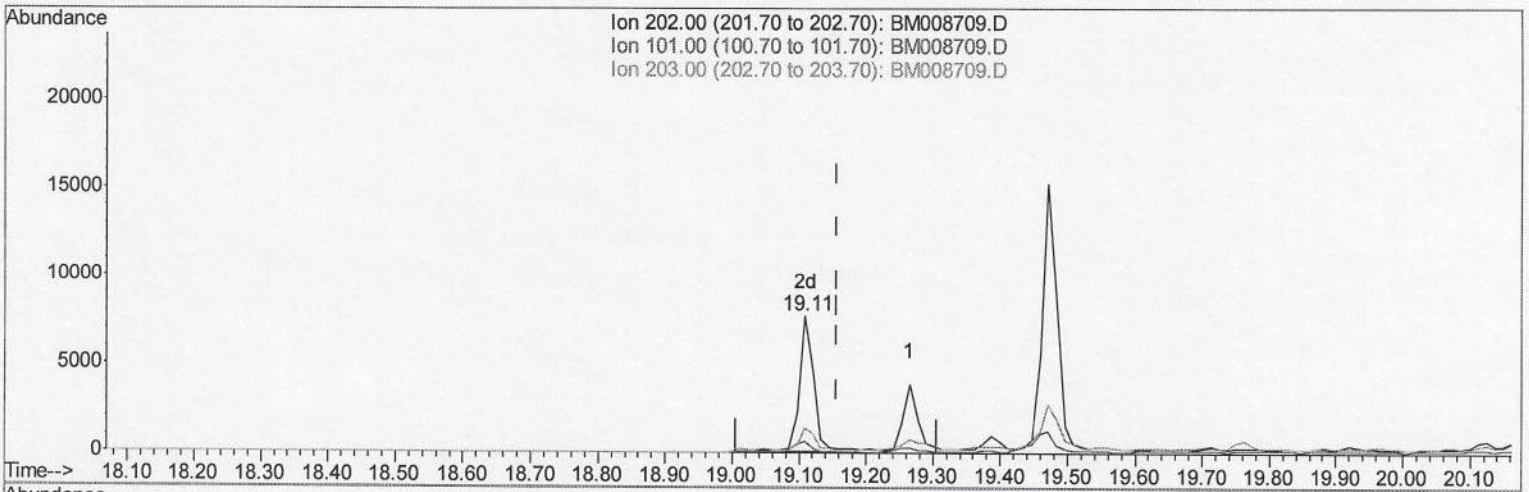
Quantitation Report (Qedit)

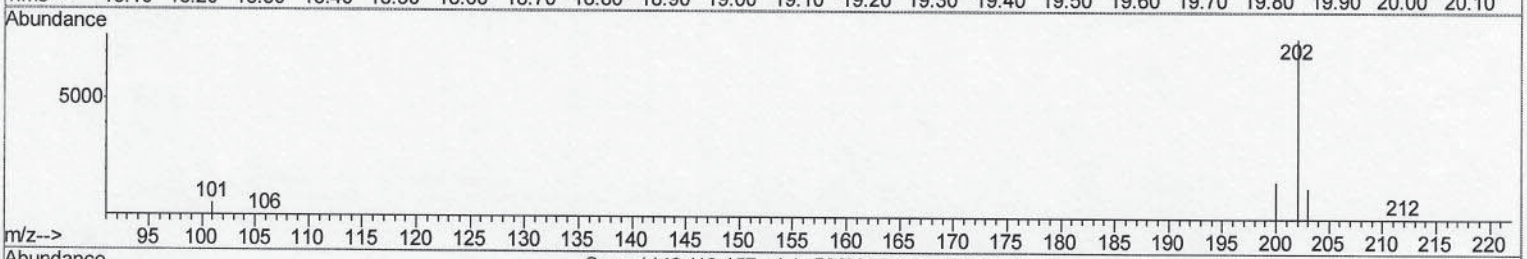
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

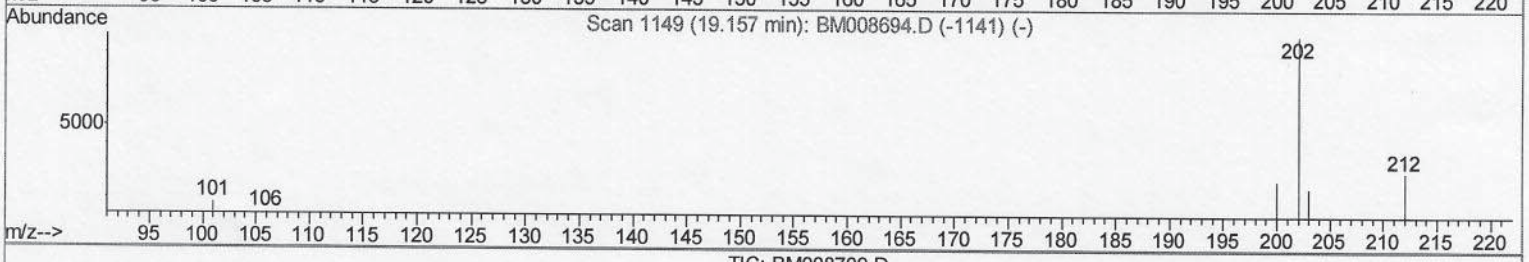
Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM







TIC: BM008709.D

(15) Fluoranthene (C)

19.108min (-0.048) 1.74ng/ul m > S.J. 12/30/16

response 11093

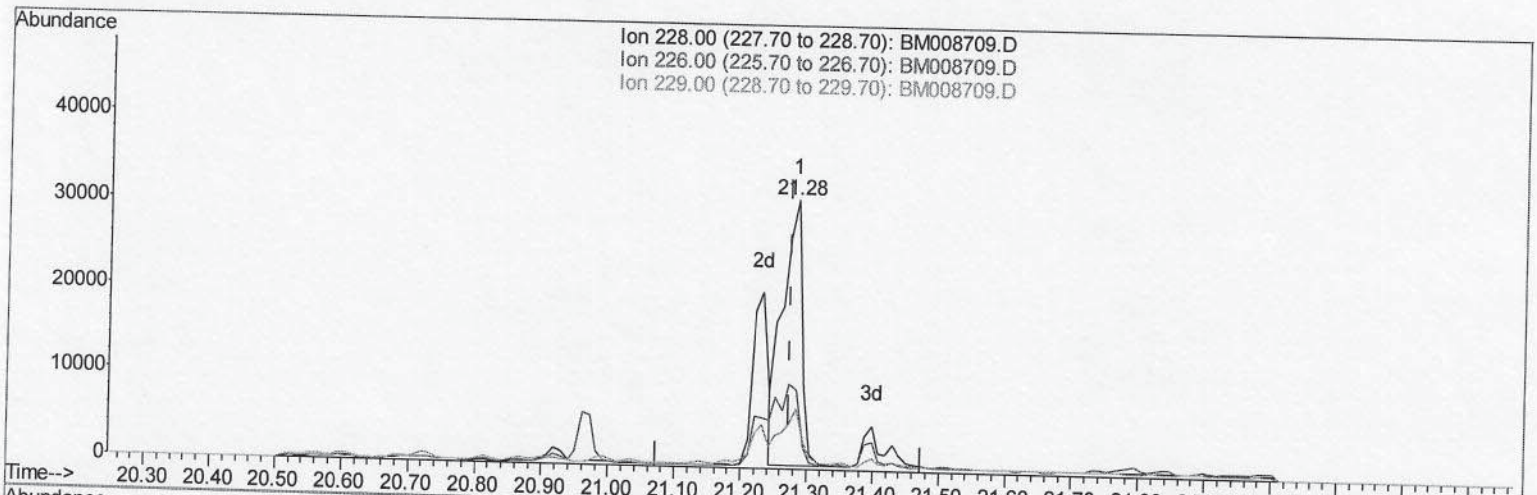
Ion	Exp%	Act%
202.00	100	100
101.00	10.30	7.90
203.00	19.50	17.87
0.00	0.00	0.00

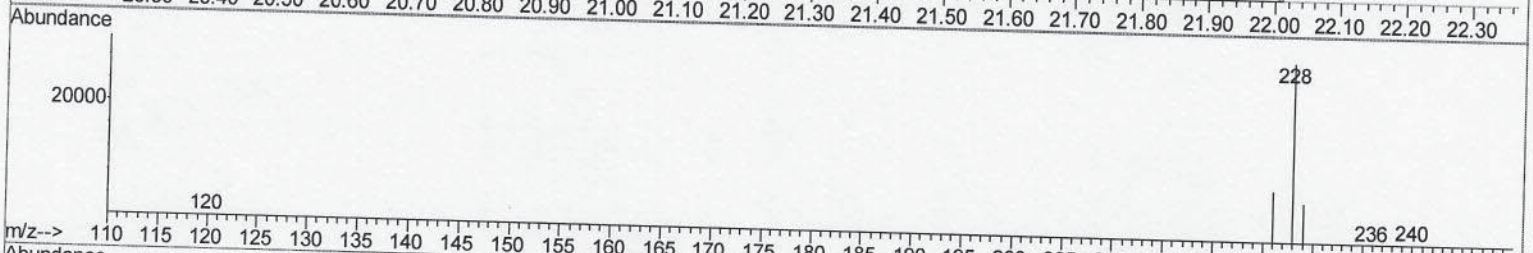
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

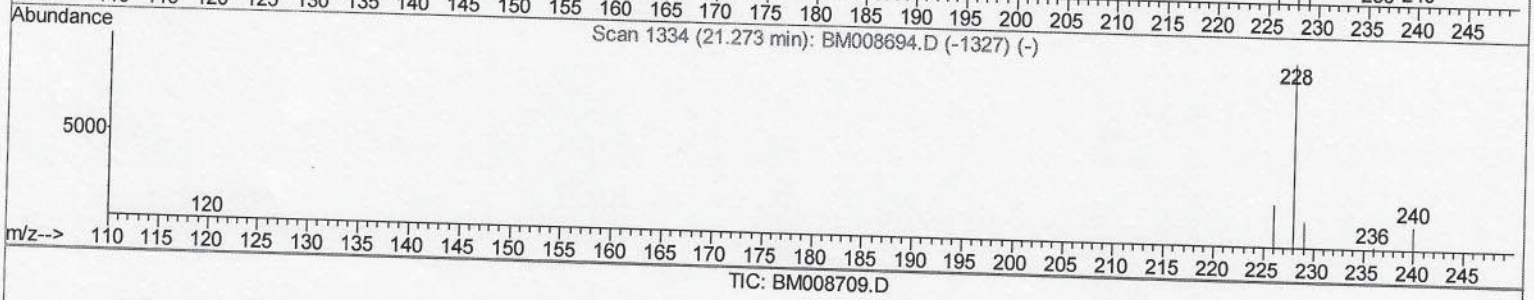
Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM







(18) Benzo(a)anthracene

21.283min (+0.010) 11.56ng/ul

response 64226

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	28.95
229.00	21.30	22.51
0.00	0.00	0.00

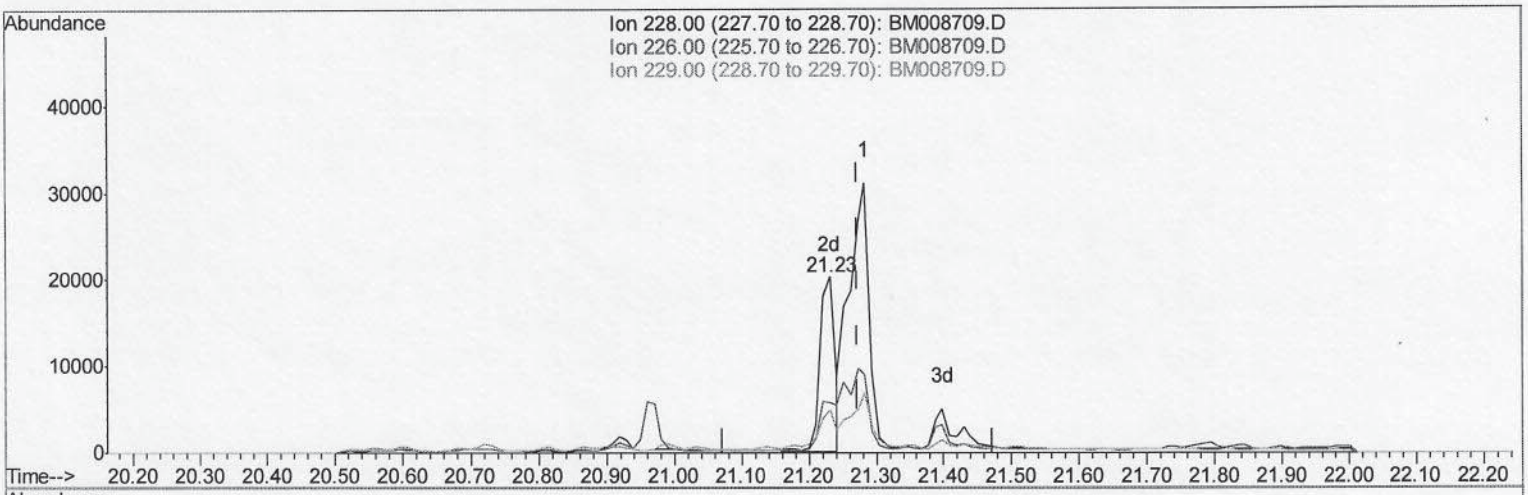
Quantitation Report (Qedit)

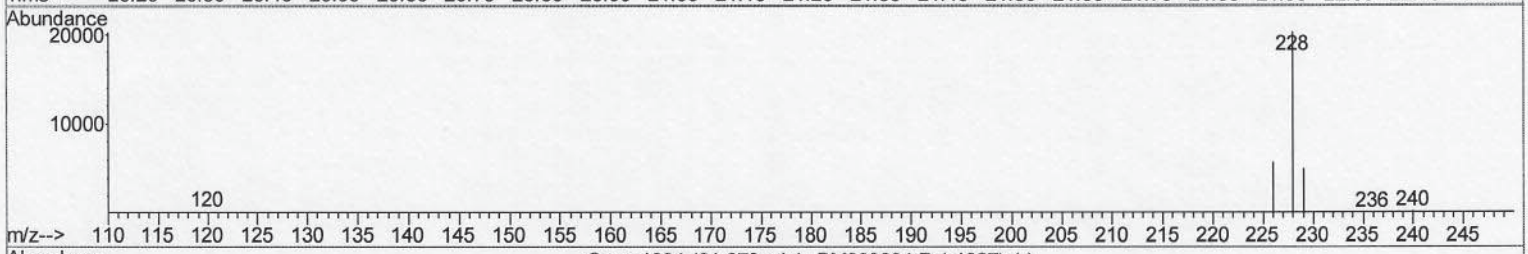
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

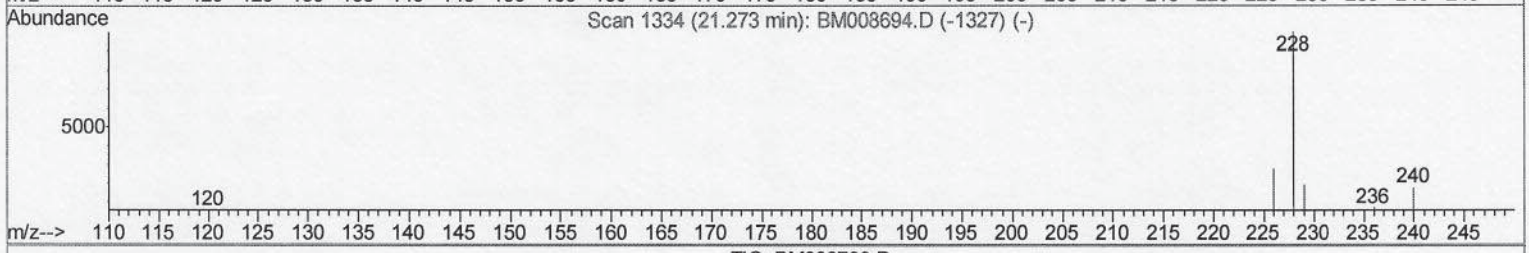
Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM







TIC: BM008709.D

(18) Benzo(a)anthracene

21.231min (-0.042) 5.69ng/ul m

response 31640

S.J. 12/30/16

Ion	Exp%	Act%
228.00	100	100
226.00	28.50	28.37
229.00	21.30	24.62
0.00	0.00	0.00

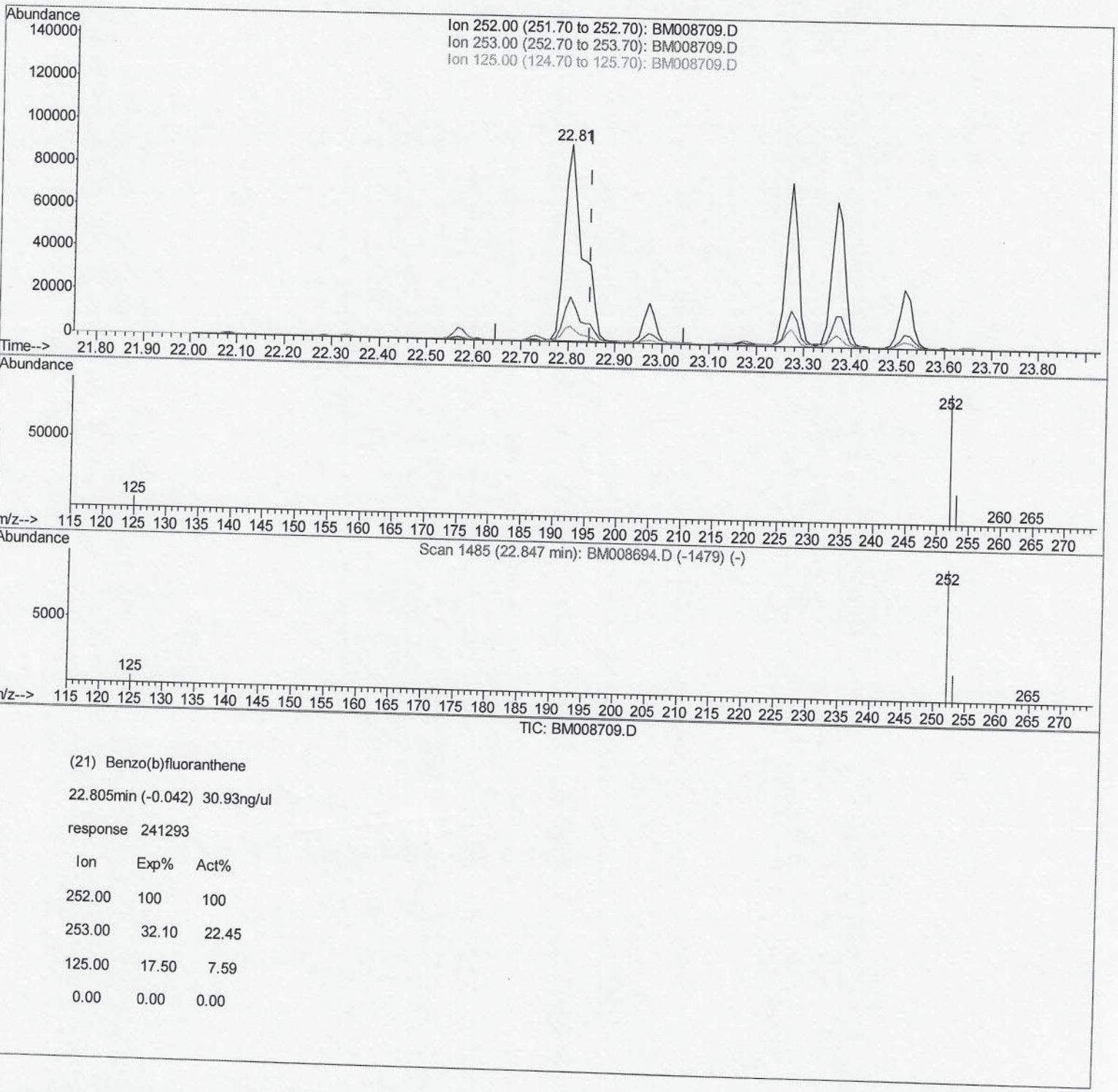
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



(21) Benzo(b)fluoranthene

22.805min (-0.042) 30.93ng/ul

response 241293

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	22.45
125.00	17.50	7.59
0.00	0.00	0.00

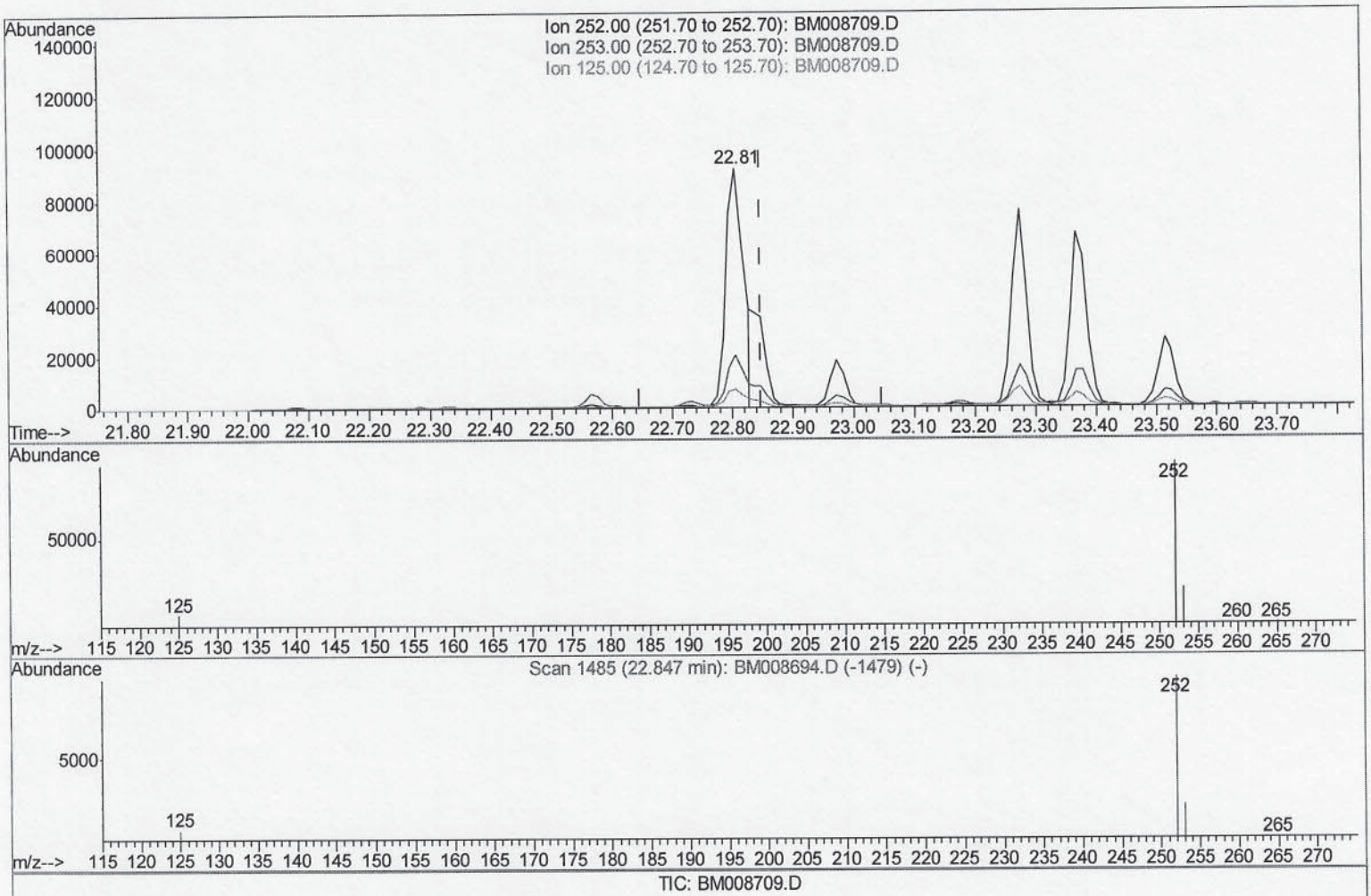
Quantitation Report (QuanLocal)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



TIC: BM008709.D

(21) Benzo(b)fluoranthene

22.805min (-0.042) 23.95ng/ul m

response 186852

S.J. 12/30/16

Ion	Exp%	Act%
252.00	100	100
253.00	32.10	22.45
125.00	17.50	7.59
0.00	0.00	0.00

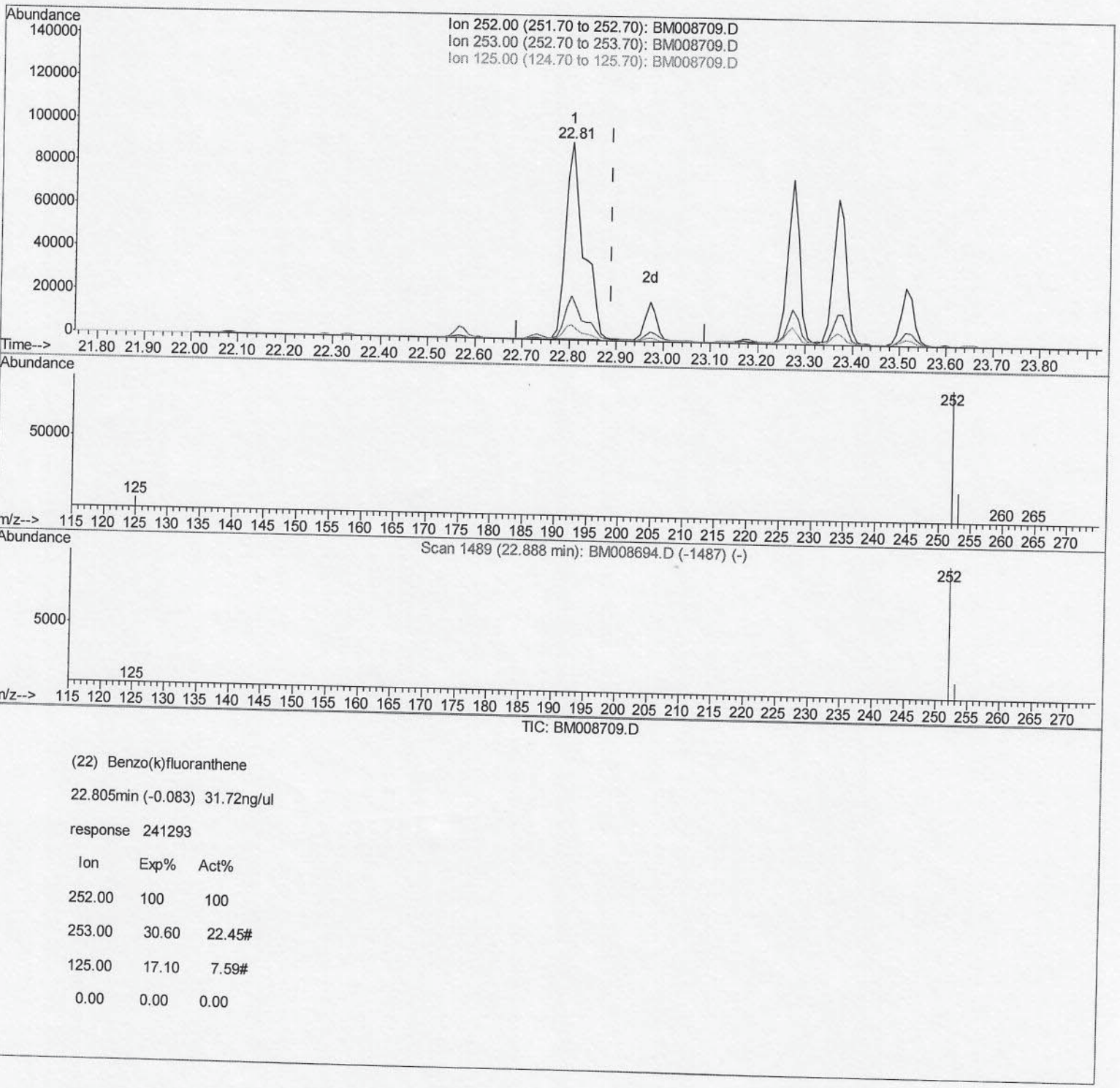
Quantification Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



TIC: BM008709.D

(22) Benzo(k)fluoranthene

22.805min (-0.083) 31.72ng/ul

response 241293

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	22.45#
125.00	17.10	7.59#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
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Quant Time: Dec 29 05:47:28 2016
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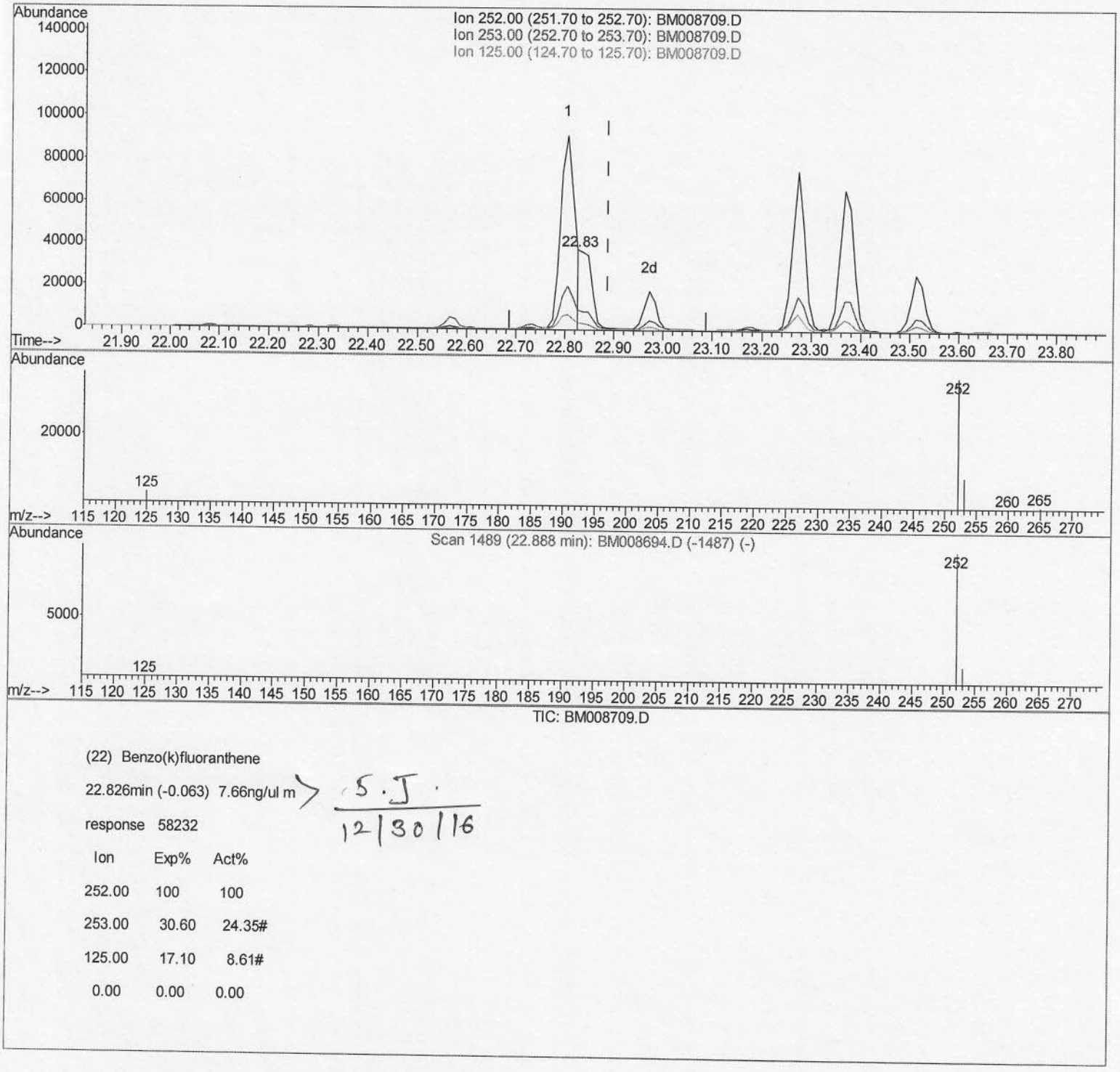
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



TIC: BM008709.D

(22) Benzo(k)fluoranthene

22.826min (-0.063) 7.66ng/ul m > S.J. 12/30/16

response 58232

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	24.35#
125.00	17.10	8.61#
0.00	0.00	0.00

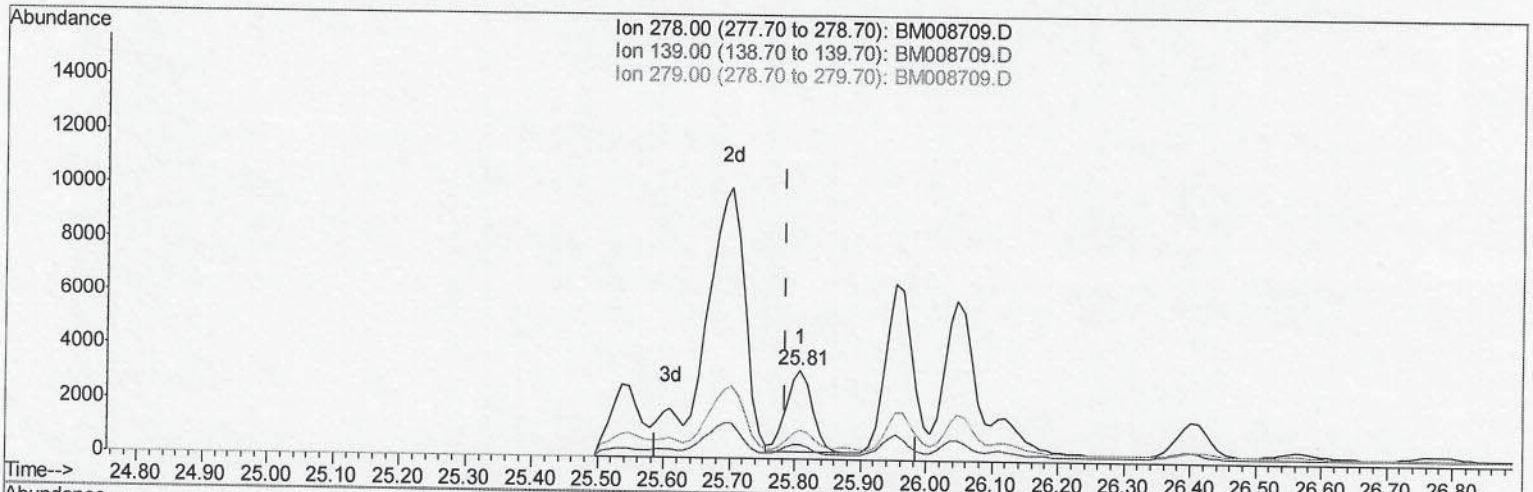
Quantitation Report (Qedit)

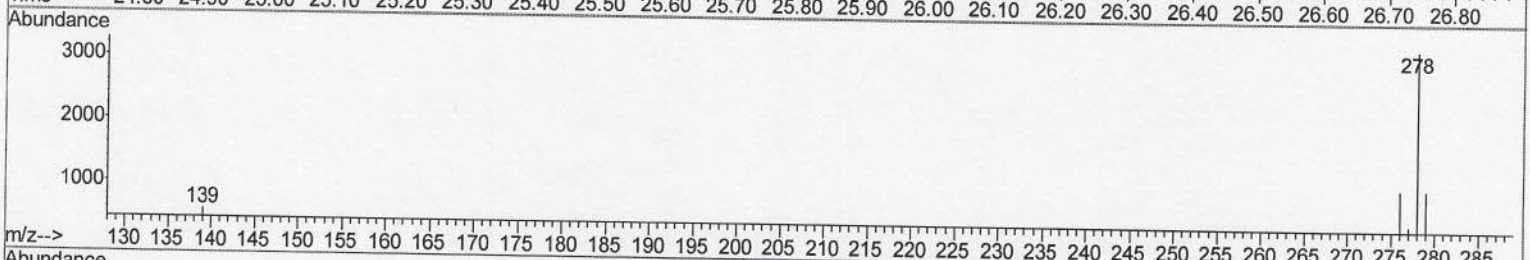
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

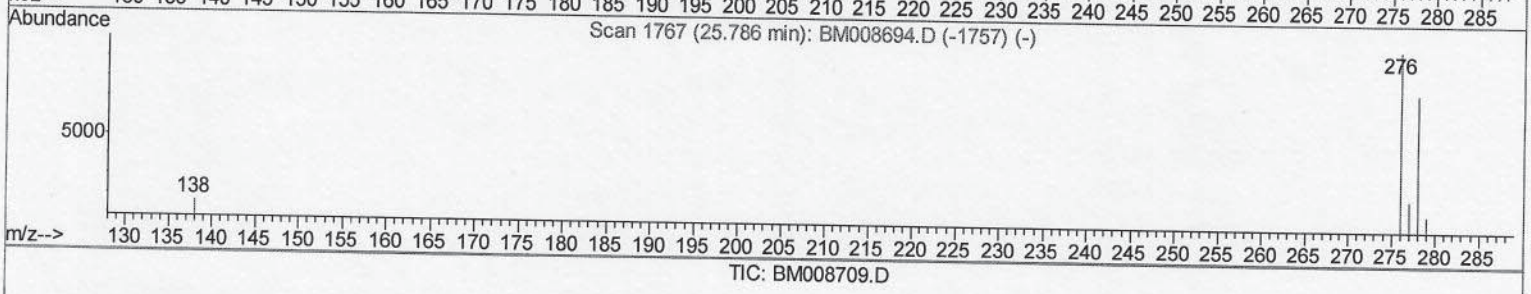
Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM







TIC: BM008709.D

(25) Dibenzo(a,h)anthracene

25.807min (+0.021) 1.22ng/ul

response 8421

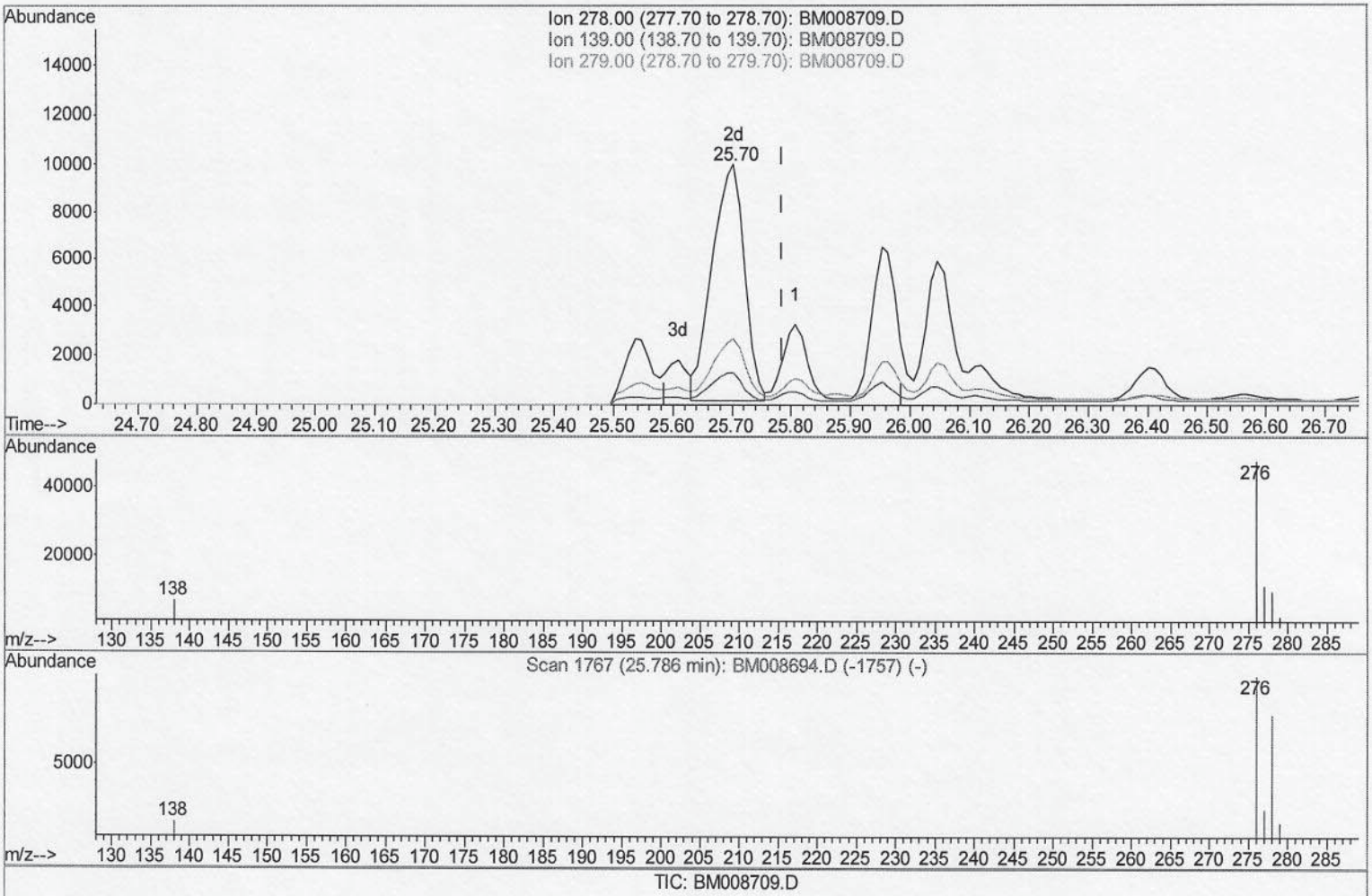
Ion	Exp%	Act%
278.00	100	100
139.00	21.70	17.37
279.00	32.40	33.03
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 05:47:28 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM



TIC: BM008709.D

(25) Dibenzo(a,h)anthracene

25.703min (-0.083) 5.36ng/ul m

response 36916

S.J. 12/30/16

Ion	Exp%	Act%
278.00	100	100
139.00	21.70	13.06#
279.00	32.40	26.92
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008709.D
Acq On : 29 Dec 2016 01:09
Operator : UM/SJ
Sample : H6067-10
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : DA7G1

Manual Integrations APPROVED
mohammad
12/30/2016 8:54:10 AM

Quant Time: Dec 29 05:49:13 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	351m	0.40	ng/ul	-0.17
2) Naphthalene-d8	10.44	136	1285	0.40	ng/ul	-0.12
6) Acenaphthene-d10	14.28	164	801	0.40	ng/ul	-0.07
10) Phenanthrene-d10	17.04	188	1707m	0.40	ng/ul	-0.07
16) Chrysene-d12	21.24	240	1692m	0.40	ng/ul	-0.04
20) Perylene-d12	23.47	264	1980	0.40	ng/ul	-0.05
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.05	152	435	0.22	ng/ul	-0.11
14) Fluoranthene-d10	19.08	212	1144	0.24	ng/ul	-0.05
Target Compounds						Qvalue
3) Naphthalene	10.48	128	1271	0.35	ng/ul#	87
5) 2-Methylnaphthalene	12.12	142	495	0.20	ng/ul	98
7) Acenaphthylene	14.01	152	13148	3.63	ng/ul	95
8) Acenaphthene	14.35	153	363	0.13	ng/ul#	85
9) Fluorene	15.36	166	748	0.24	ng/ul#	82
12) Phenanthrene	17.07	178	3402m	0.65	ng/ul	
13) Anthracene	17.18	178	19054	3.76	ng/ul	94
15) Fluoranthene	19.11	202	11093m	1.74	ng/ul	
17) Pyrene	19.47	202	22990	3.52	ng/ul	98
18) Benzo(a)anthracene	21.23	228	31640m	5.69	ng/ul	
19) Chrysene	21.28	228	63922	10.51	ng/ul	99
21) Benzo(b)fluoranthene	22.81	252	186852m	23.95	ng/ul	
22) Benzo(k)fluoranthene	22.83	252	58232m	7.66	ng/ul	
23) Benzo(a)pyrene	23.37	252	127213	17.60	ng/ul#	74
24) Indeno(1,2,3-cd)pyrene	25.70	276	131276	15.23	ng/ul#	90
25) Dibenzo(a,h)anthracene	25.70	278	36916m	5.36	ng/ul	
26) Benzo(g,h,i)perylene	26.40	276	117348	15.88	ng/ul#	87

S.J. 12/30/16

S.J. 12/30/16

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