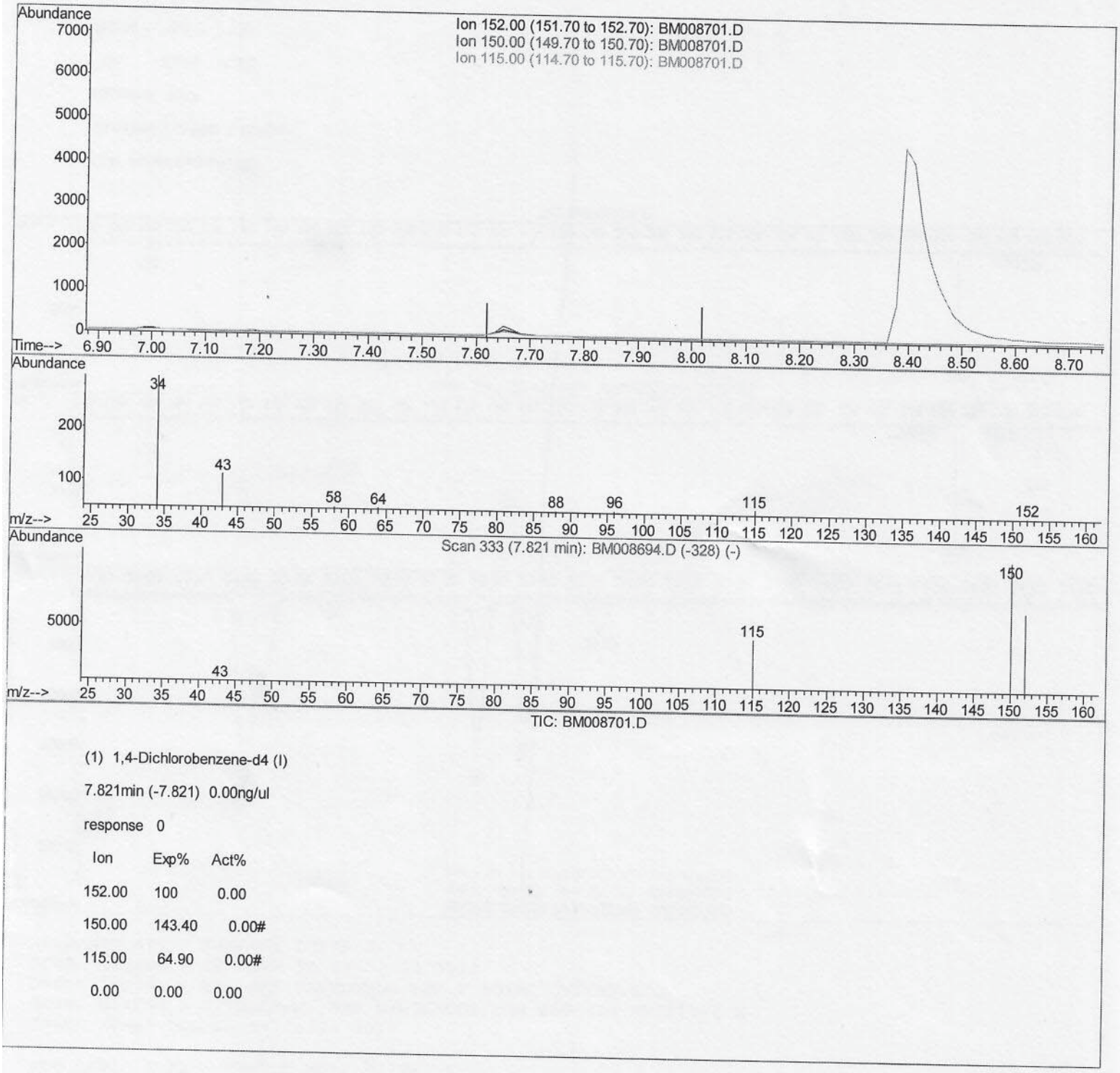
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 03:33:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM



TIC: BM008701.D

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

7.821min (-7.821) 0.00ng/ul

response 0

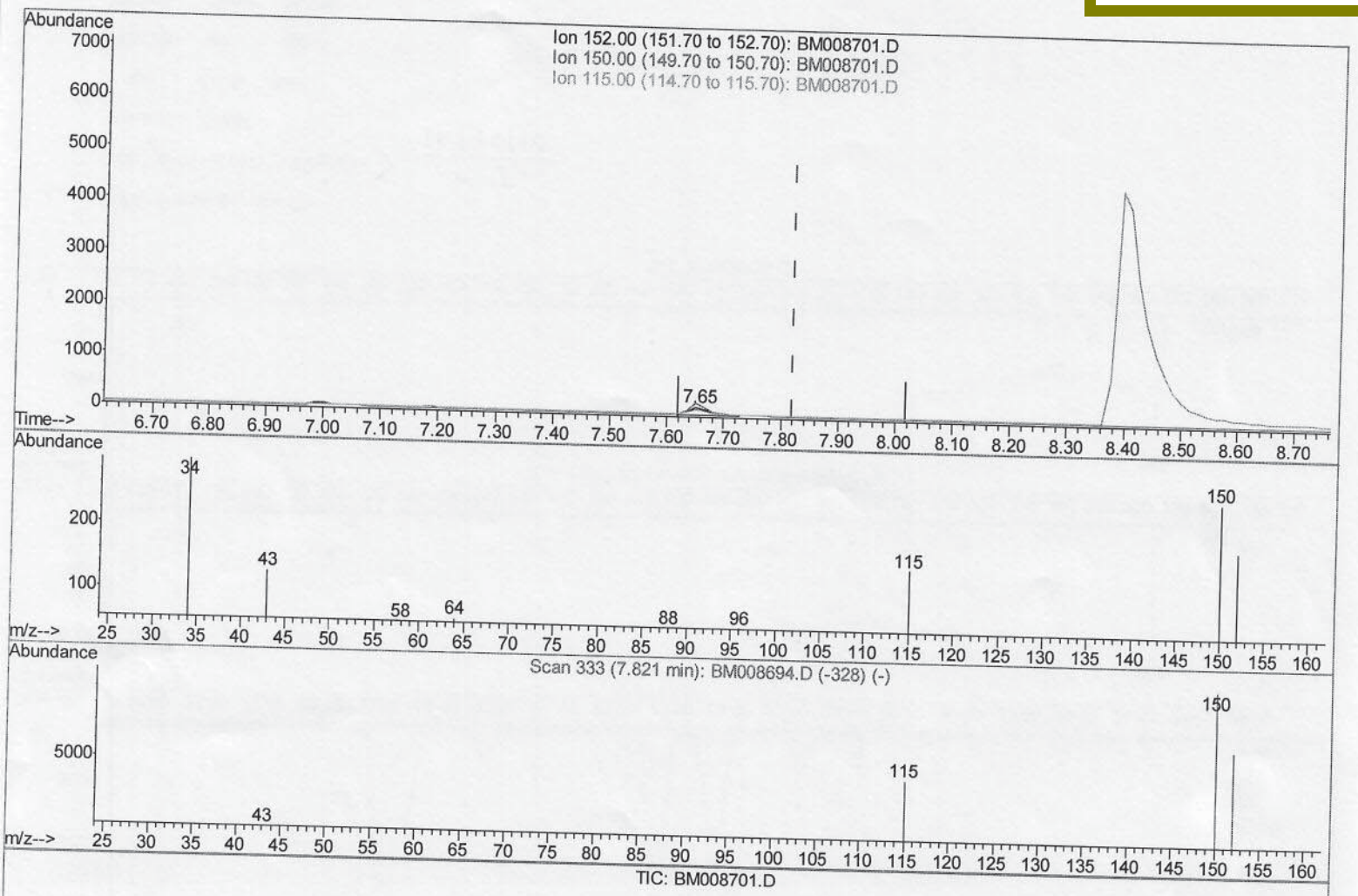
Ion	Exp%	Act%
152.00	100	0.00
150.00	143.40	0.00#
115.00	64.90	0.00#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 03:33:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM



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

7.650min (-0.170) 0.40ng/ul m > 5.J 12/30/16

response 432

Ion	Exp%	Act%
152.00	100	100
150.00	143.40	138.95
115.00	64.90	80.00#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 03:33:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
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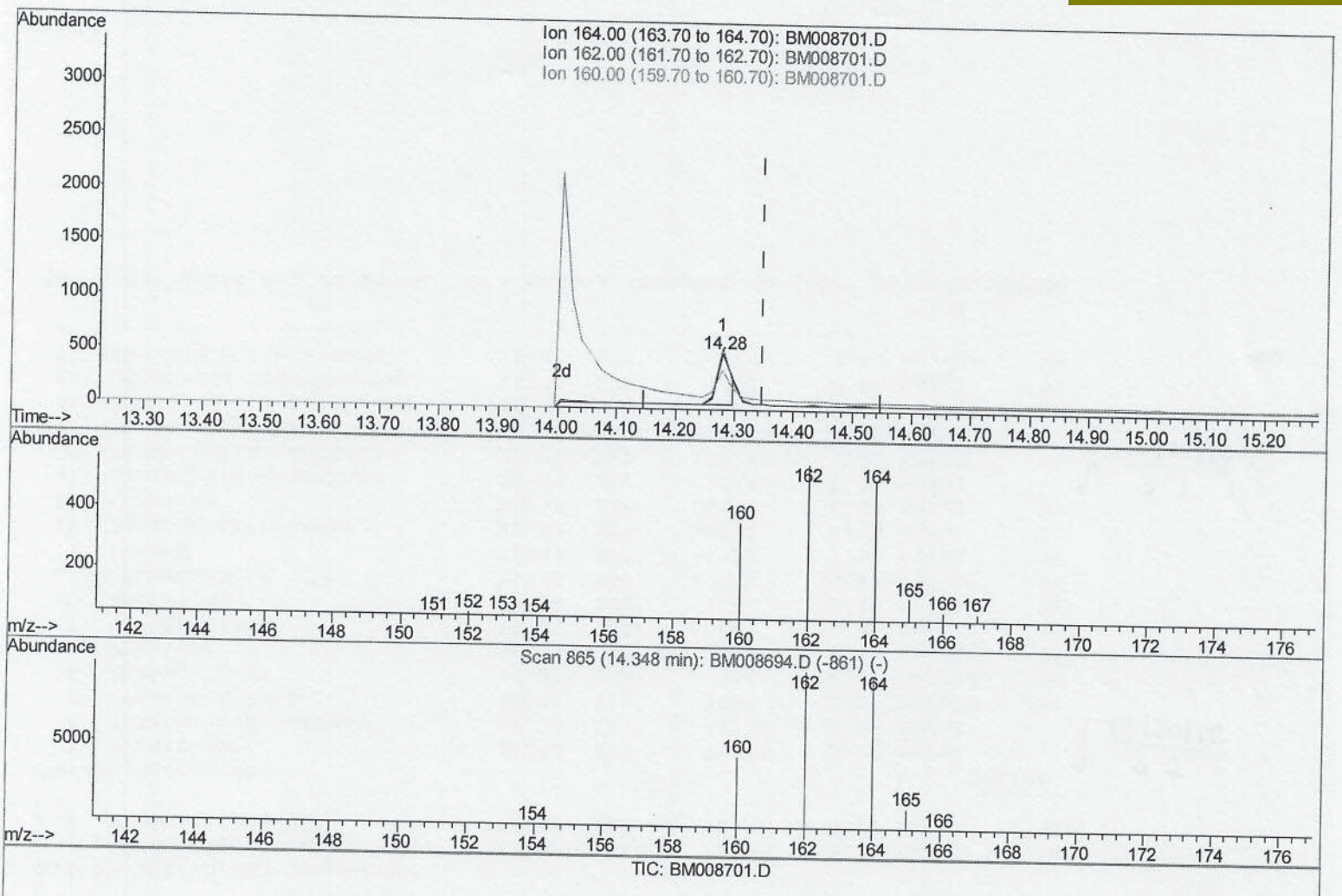

TIC: BM008701.D

(6) Acenaphthene-d10 (I)

14.280min (-0.069) 0.40ng/ul

response 786

Ion	Exp%	Act%
164.00	100	100
162.00	98.60	109.40
160.00	48.80	71.40#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 03:33:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
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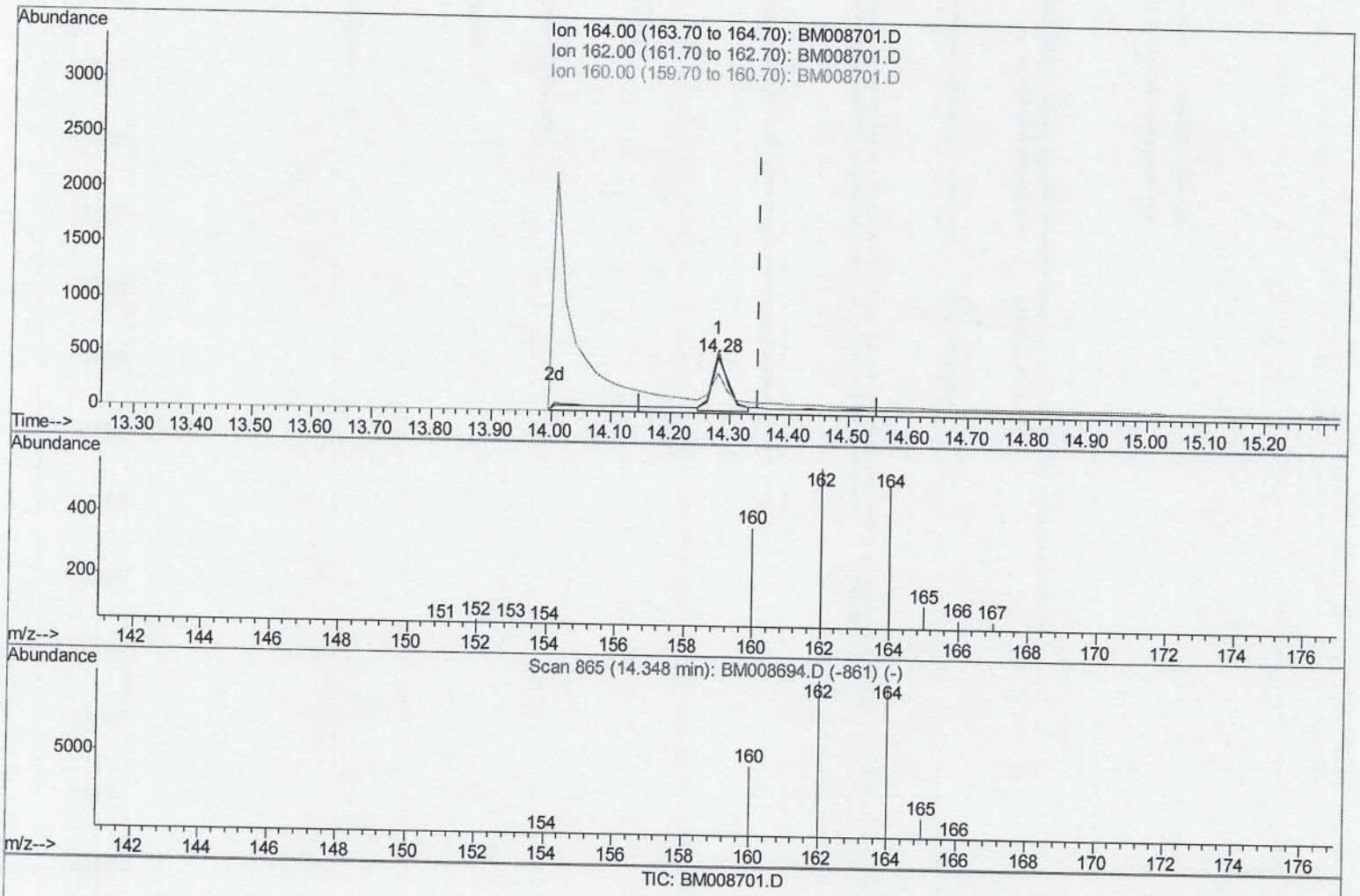


TIC: BM008701.D

(6) Acenaphthene-d10 (I)

14.280min (-0.069) 0.40ng/ul m > S.J 12/30/16

response 981

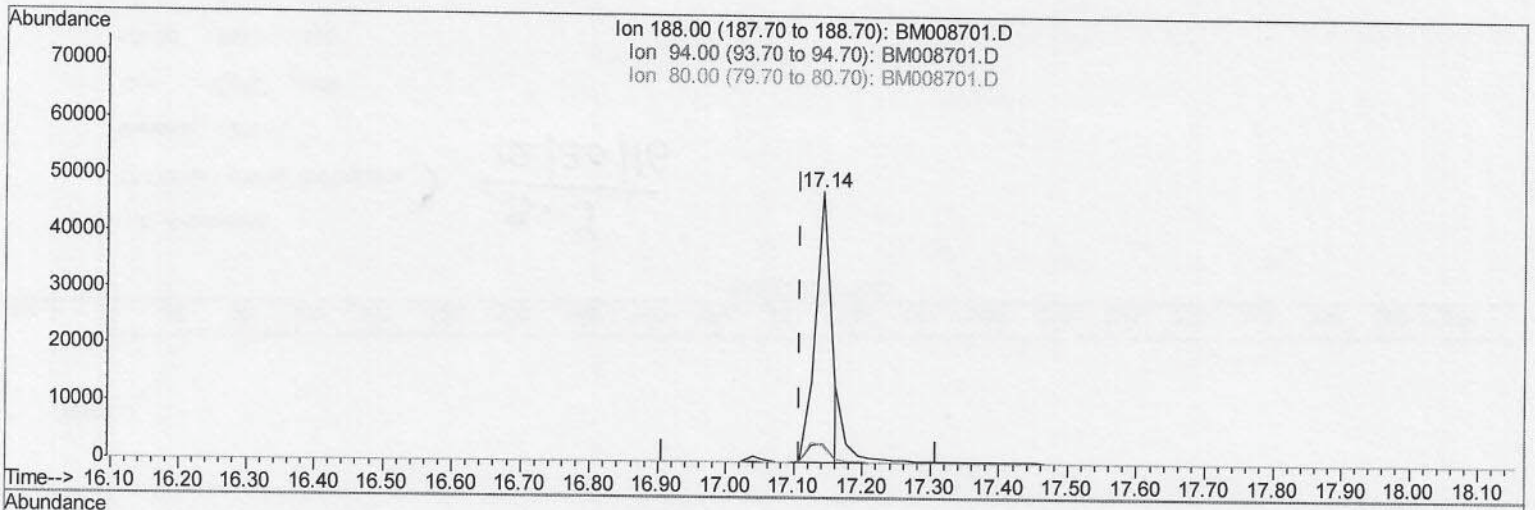
Ion	Exp%	Act%
164.00	100	100
162.00	98.60	109.40
160.00	48.80	71.40#
0.00	0.00	0.00

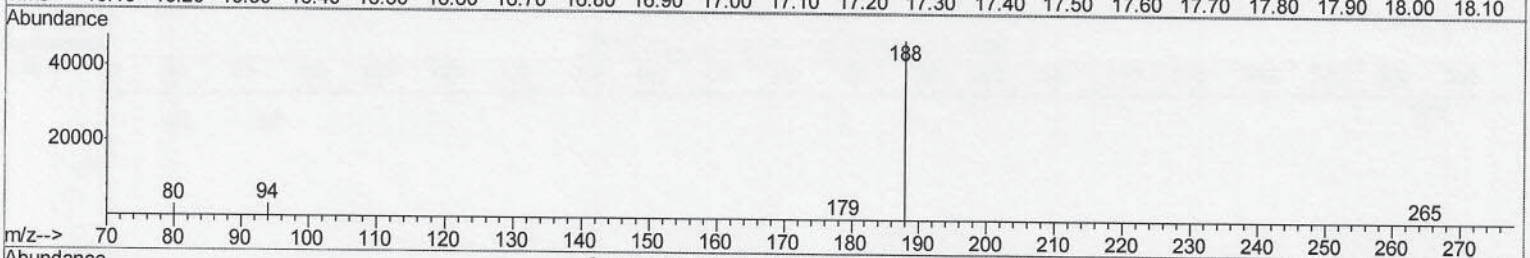
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

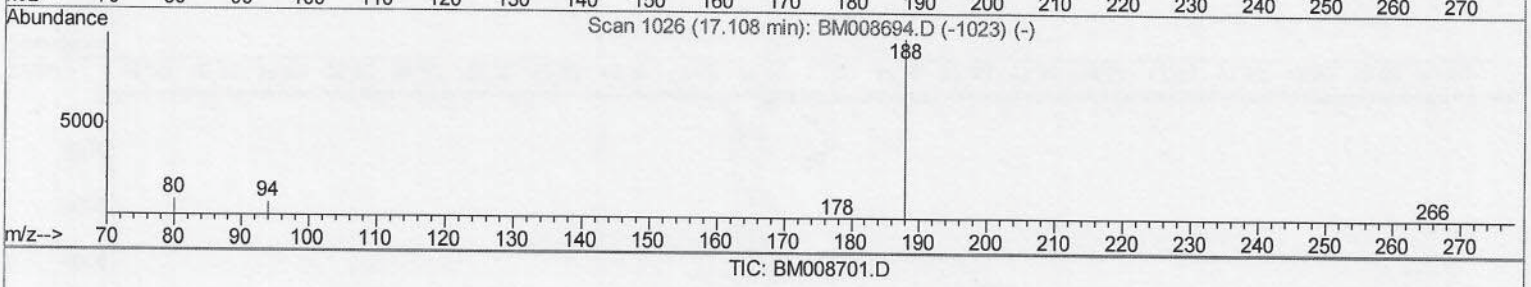
Quant Time: Dec 29 03:33:37 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM







TIC: BM008701.D

(10) Phenanthrene-d10 (I)

17.142min (+0.034) 0.40ng/ul

response 77357

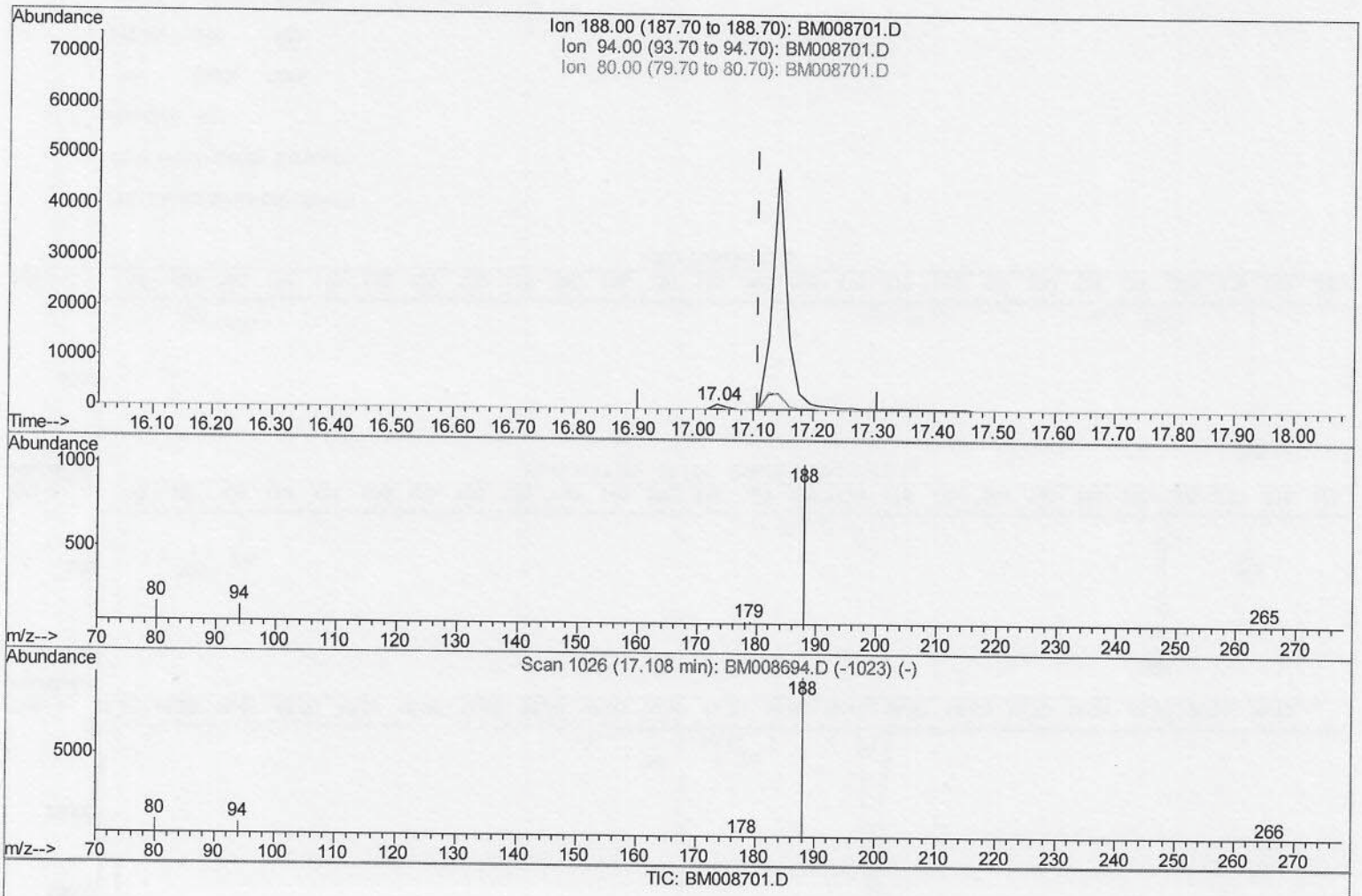
Ion	Exp%	Act%
188.00	100	100
94.00	11.00	6.87#
80.00	11.80	6.22#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 03:33:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM



TIC: BM008701.D

(10) Phenanthrene-d10 (I)

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

response 1779

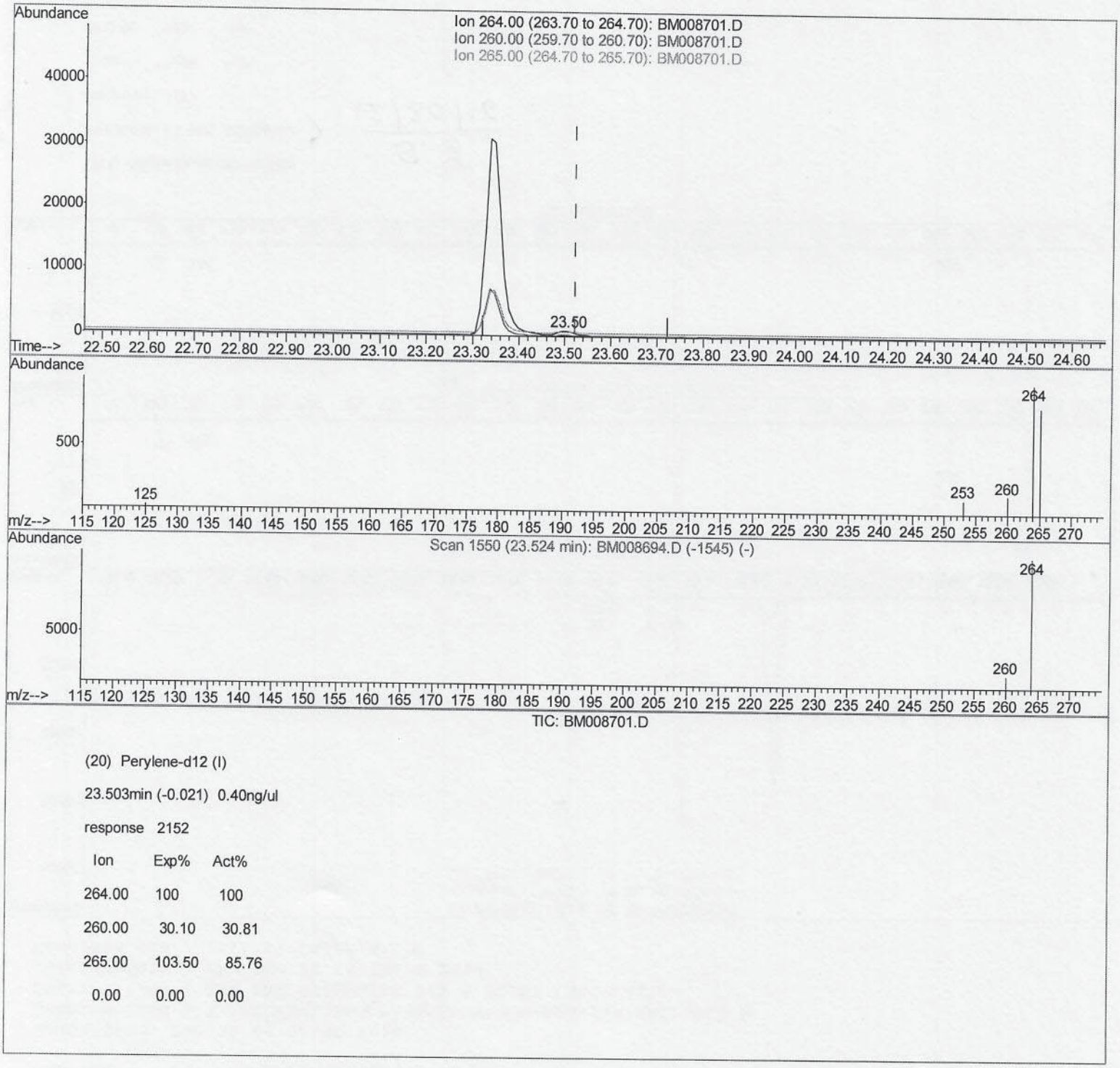
Ion	Exp%	Act%
188.00	100	100
94.00	11.00	13.91#
80.00	11.80	15.88#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 03:33:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM



(20) Perylene-d12 (I)

23.503min (-0.021) 0.40ng/ul

response 2152

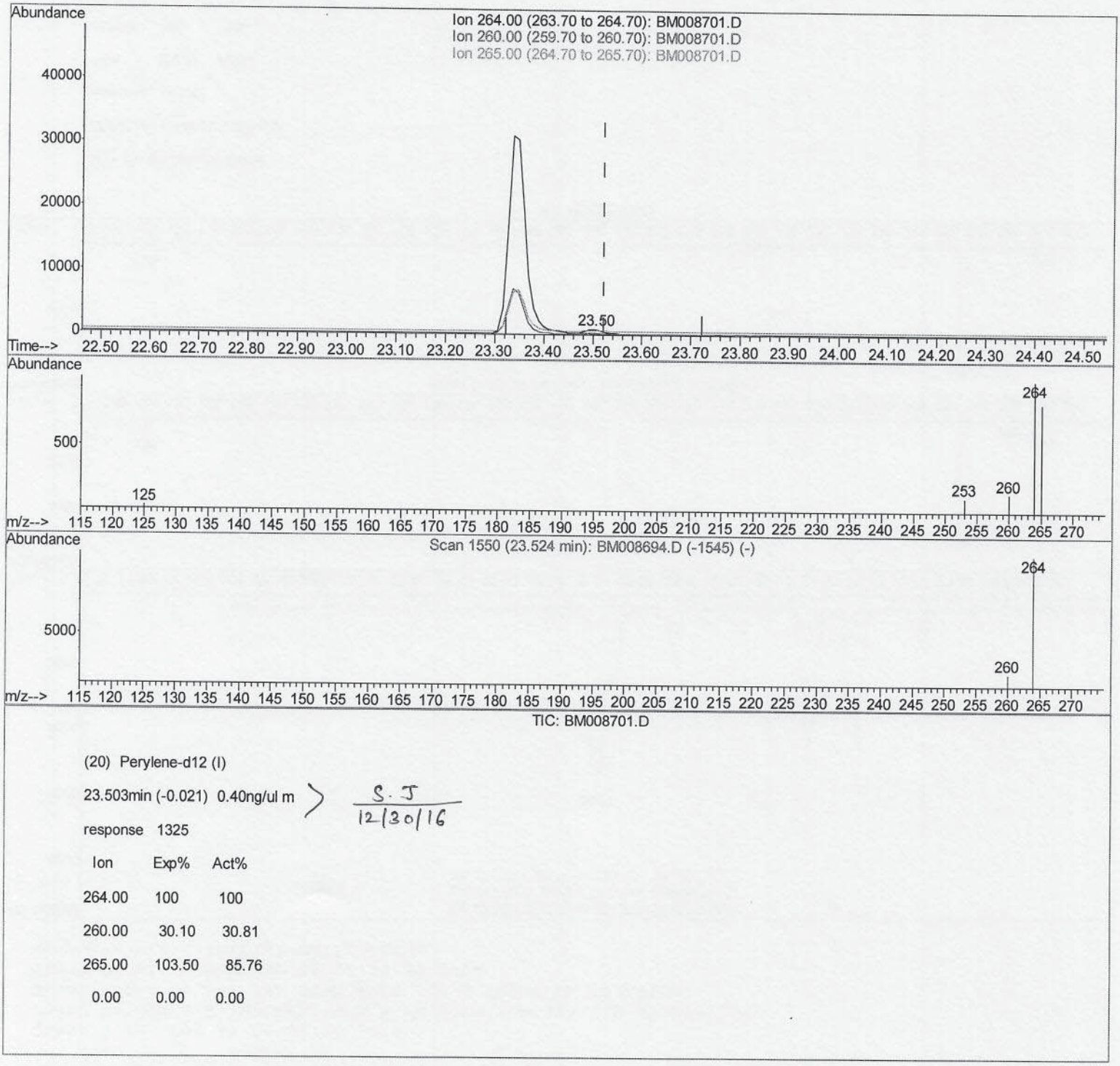
Ion	Exp%	Act%
264.00	100	100
260.00	30.10	30.81
265.00	103.50	85.76
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 03:33:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM



(20) Perylene-d12 (I)

23.503min (-0.021) 0.40ng/ul m > S.J 12/30/16

response 1325

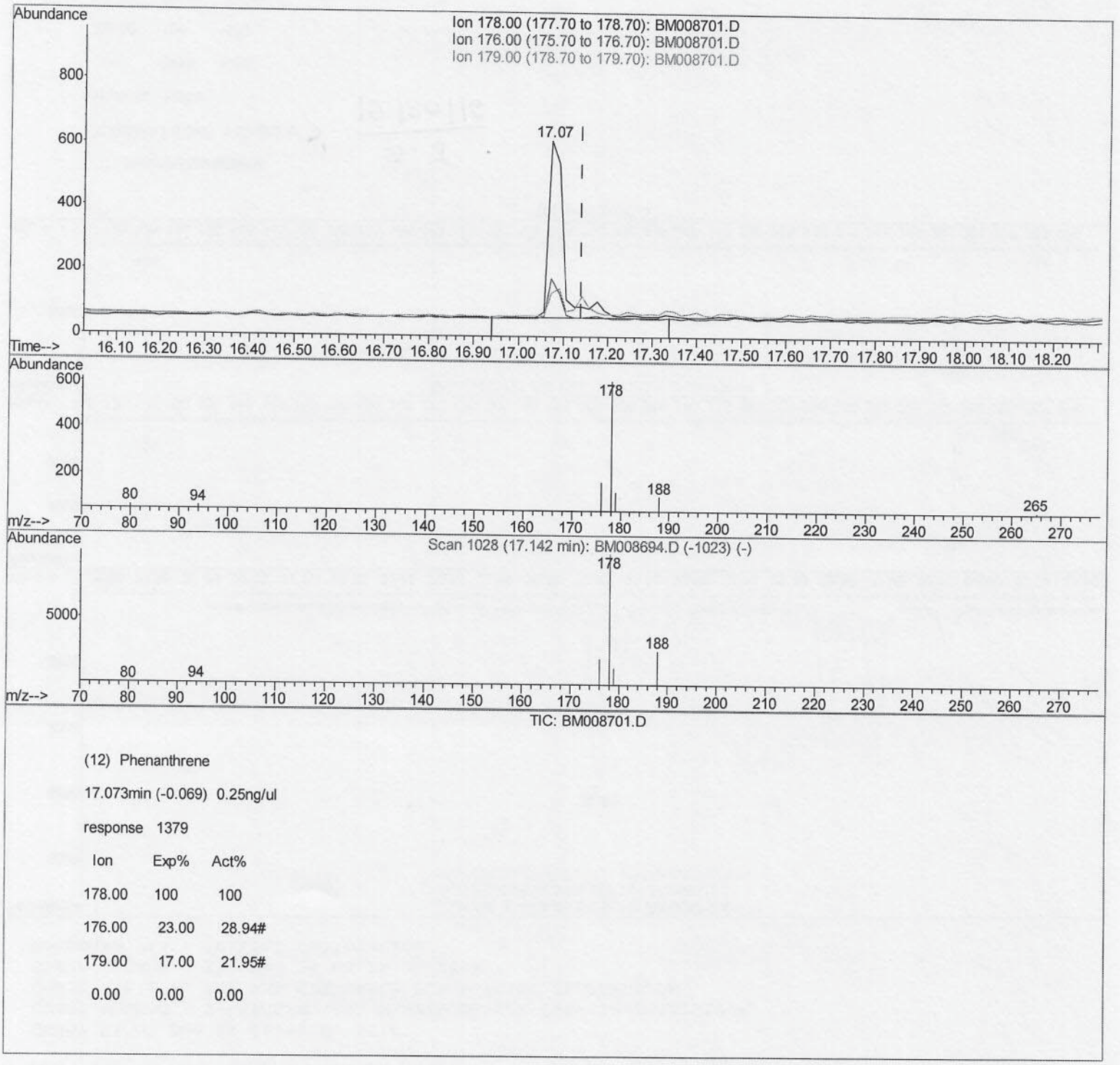
Ion	Exp%	Act%
264.00	100	100
260.00	30.10	30.81
265.00	103.50	85.76
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 04:20:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM



TIC: BM008701.D

(12) Phenanthrene

17.073min (-0.069) 0.25ng/ul

response 1379

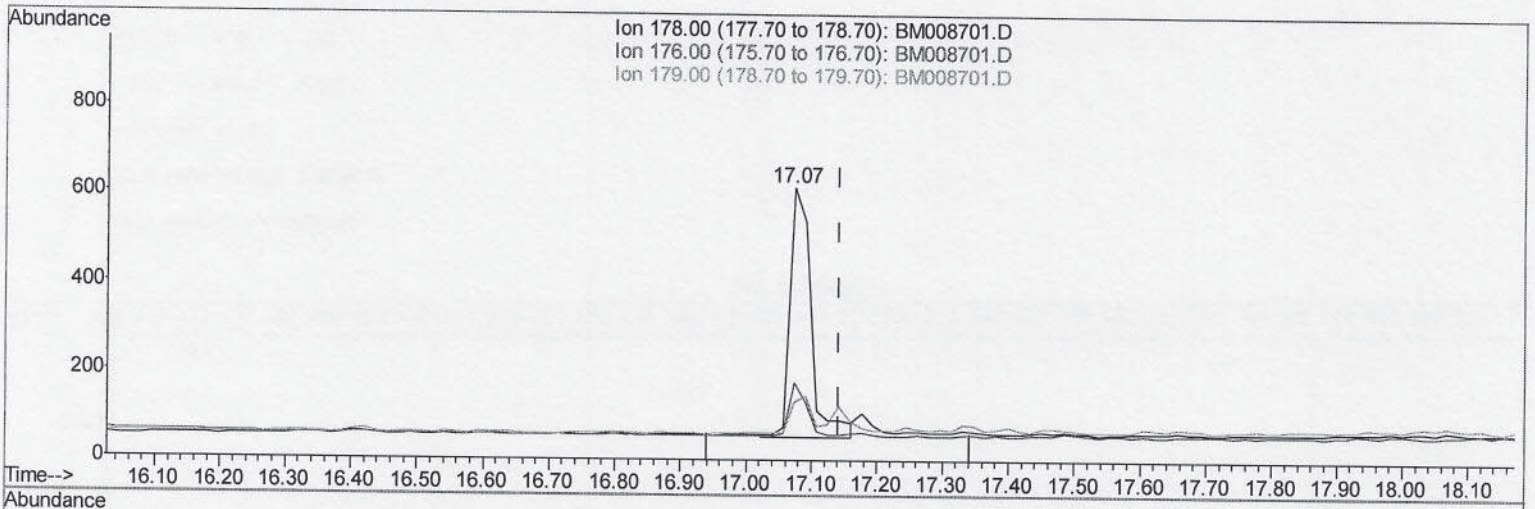
Ion	Exp%	Act%
178.00	100	100
176.00	23.00	28.94#
179.00	17.00	21.95#
0.00	0.00	0.00

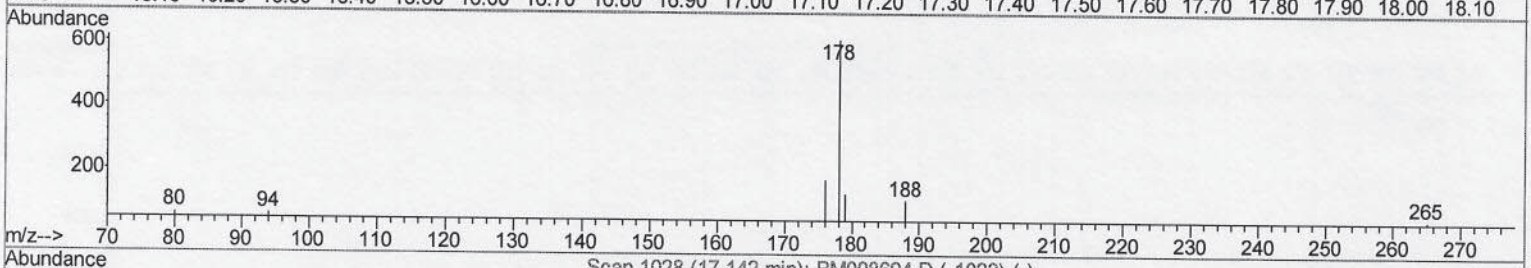
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

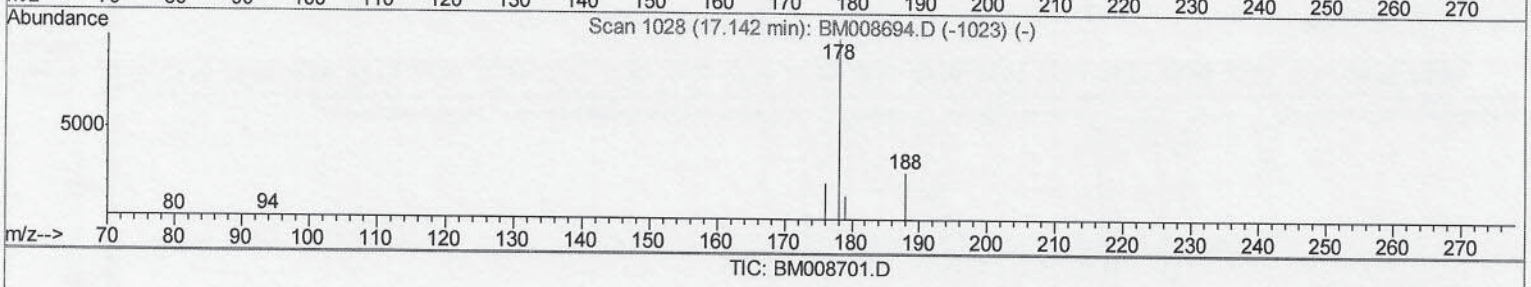
Quant Time: Dec 29 04:20:37 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM







TIC: BM008701.D

(12) Phenanthrene

17.073min (-0.069) 0.24ng/ul m

response 1291

S.J 12/30/16

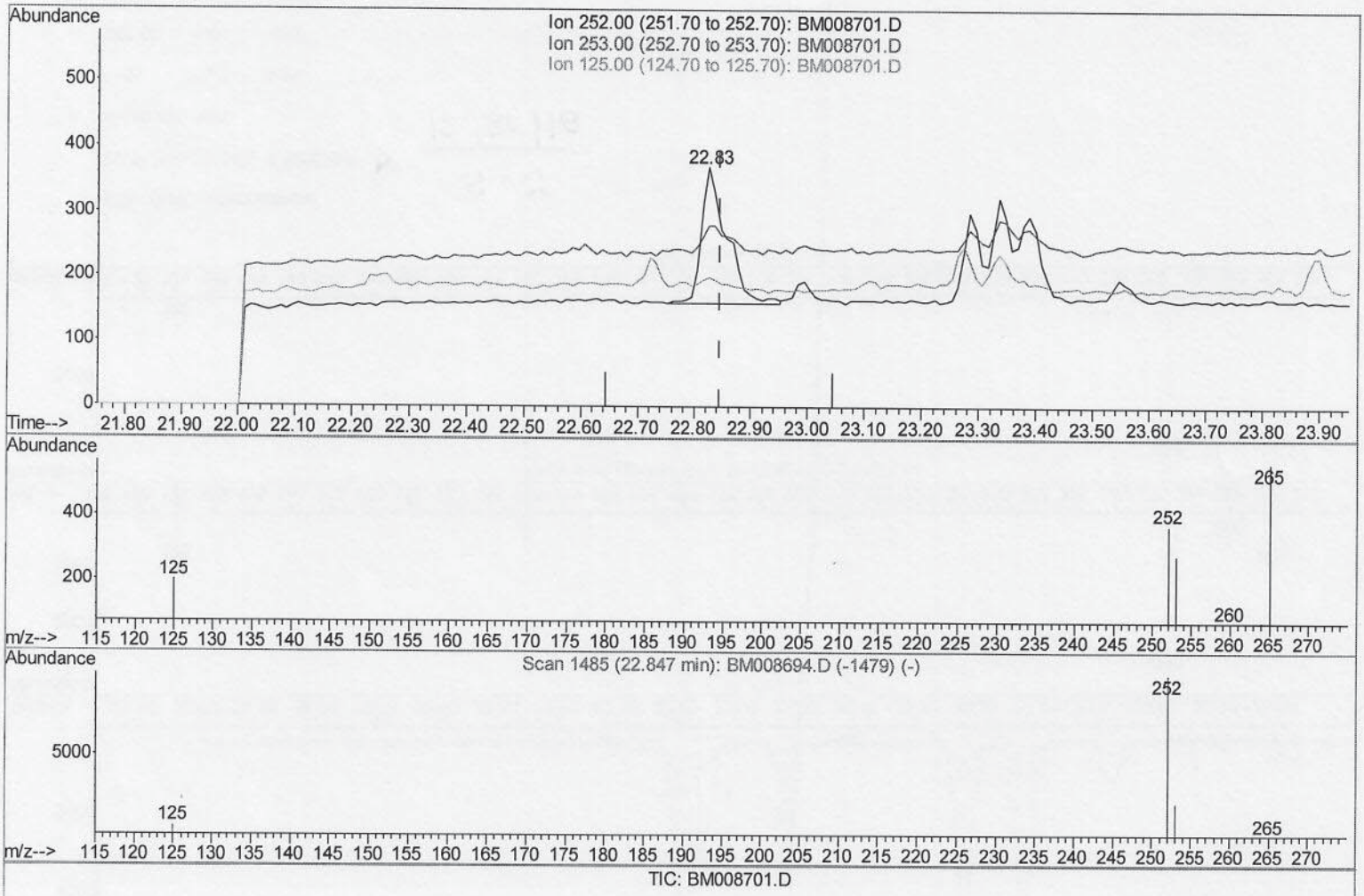
Ion	Exp%	Act%
178.00	100	100
176.00	23.00	28.94#
179.00	17.00	21.95#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 04:20:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM



TIC: BM008701.D

(21) Benzo(b)fluoranthene

22.826min (-0.021) 0.12ng/ul

response 648

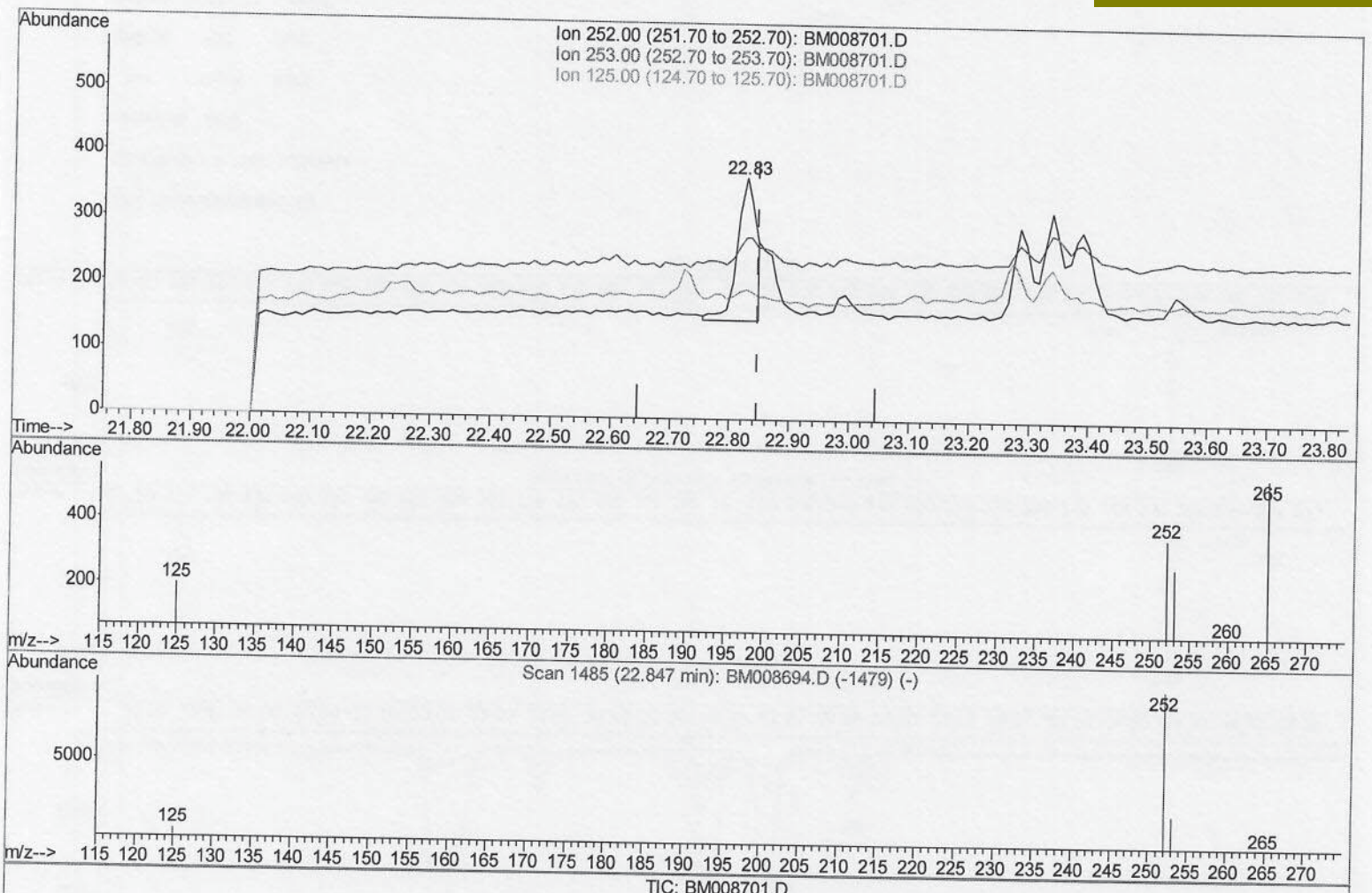
Ion	Exp%	Act%
252.00	100	100
253.00	32.10	75.41#
125.00	17.50	53.51#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 04:20:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM



TIC: BM008701.D

(21) Benzo(b)fluoranthene

22.826min (-0.021) 0.10ng/ul m

S.J 12/30/16

response 497

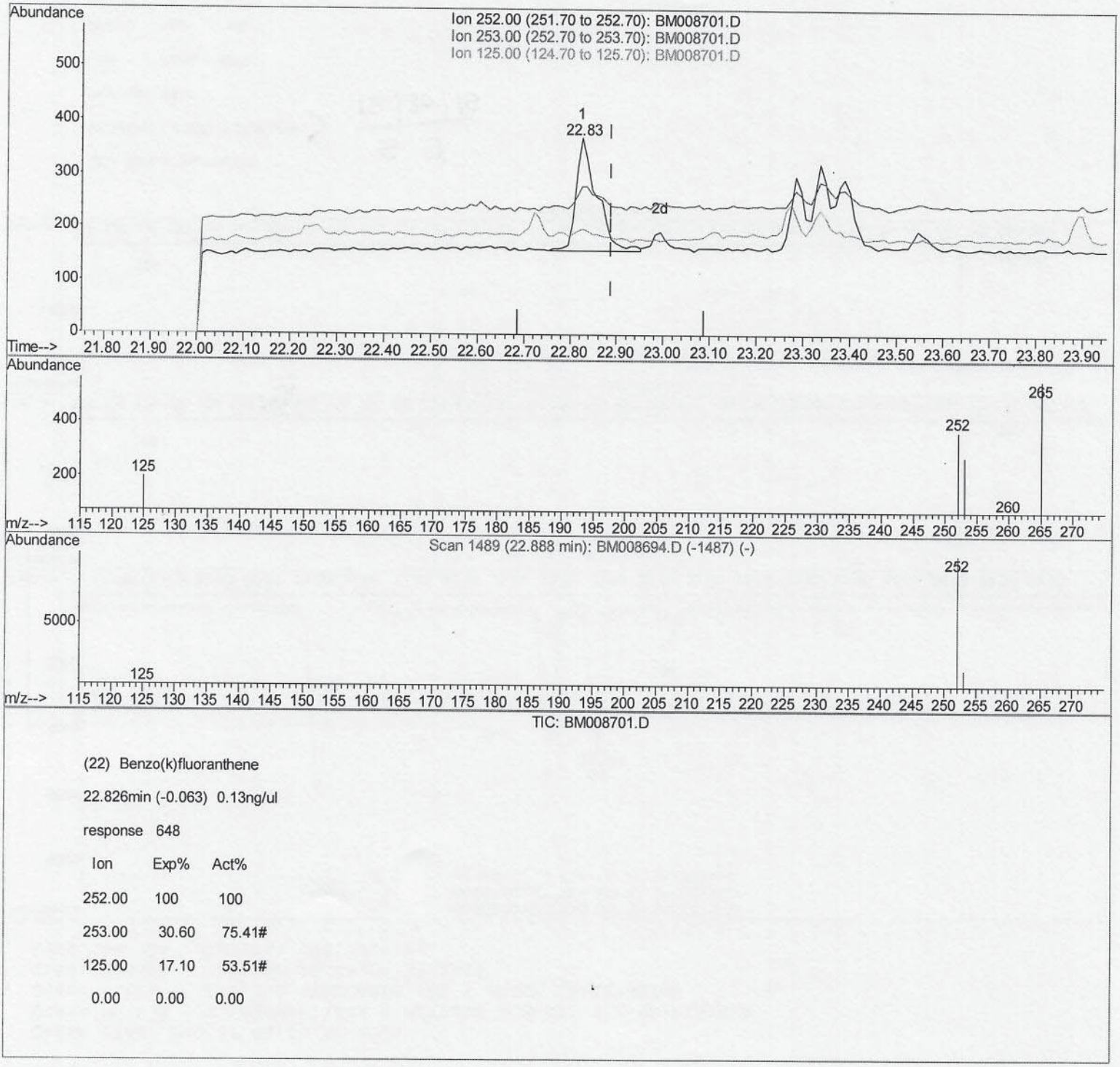
Ion	Exp%	Act%
252.00	100	100
253.00	32.10	75.41#
125.00	17.50	53.51#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 04:20:37 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM



TIC: BM008701.D

(22) Benzo(k)fluoranthene

22.826min (-0.063) 0.13ng/ul

response 648

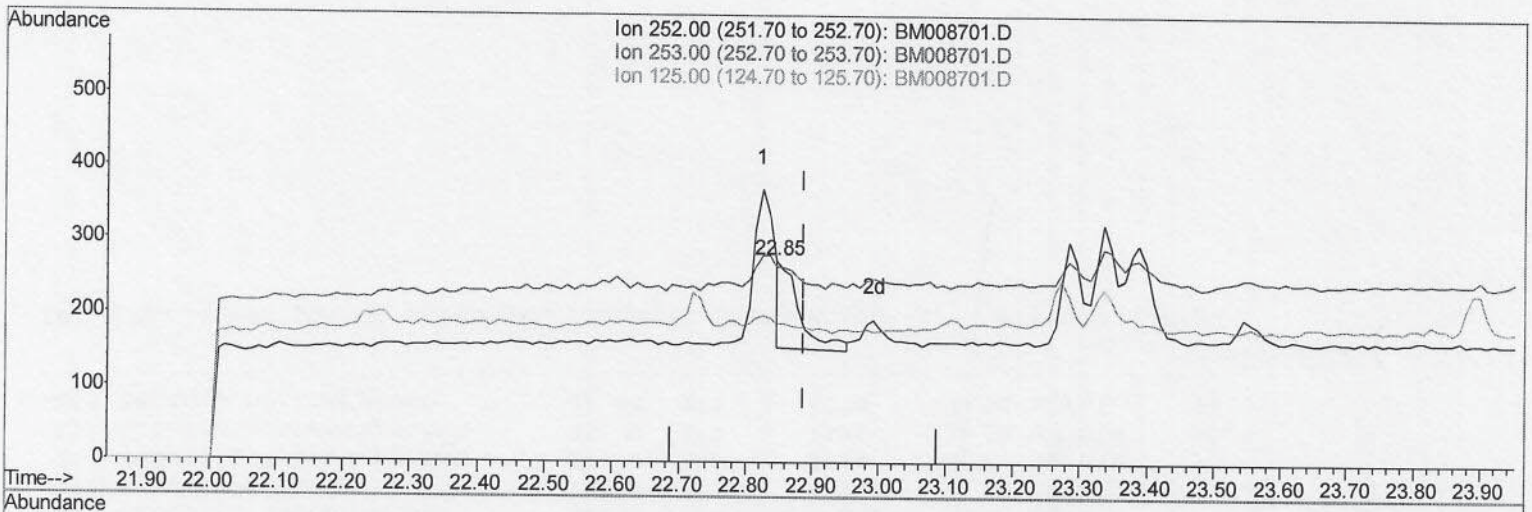
Ion	Exp%	Act%
252.00	100	100
253.00	30.60	75.41#
125.00	17.10	53.51#
0.00	0.00	0.00

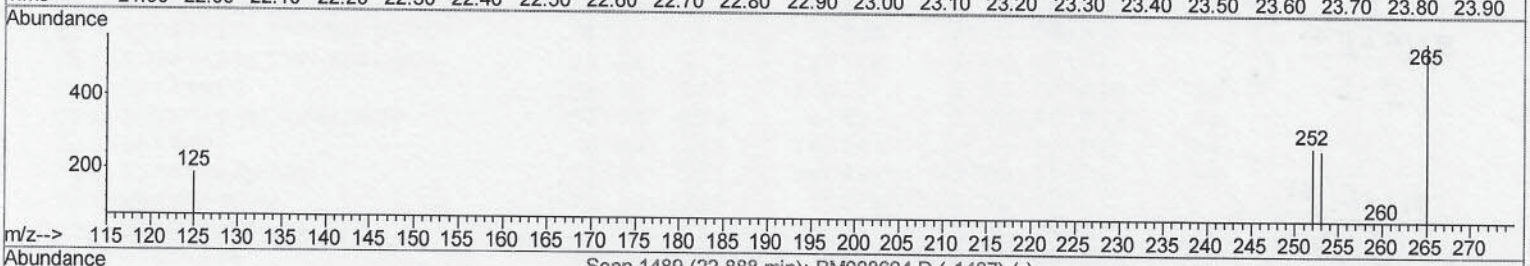
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

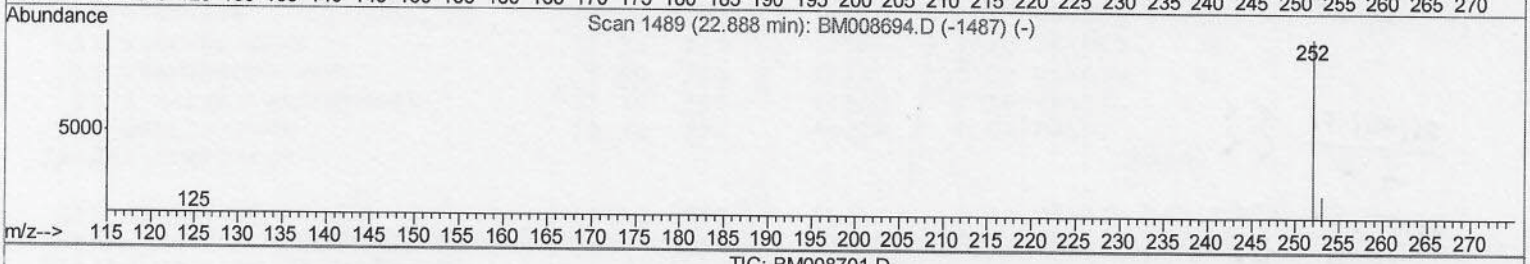
Quant Time: Dec 29 04:20:37 2016
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 29 03:29:39 2016
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM







TIC: BM008701.D

(22) Benzo(k)fluoranthene

22.847min (-0.042) 0.05ng/ul m > S.J 12/30/16

response 233

Ion	Exp%	Act%
252.00	100	100
253.00	30.60	96.70#
125.00	17.10	68.86#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM

Quant Time: Dec 29 04:23:04 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	432m	0.40	ng/ul	-0.17
2) Naphthalene-d8	10.43	136	1361	0.40	ng/ul	-0.13
6) Acenaphthene-d10	14.28	164	981m	0.40	ng/ul	-0.07
10) Phenanthrene-d10	17.04	188	1779m	0.40	ng/ul	-0.07
16) Chrysene-d12	21.27	240	1657	0.40	ng/ul	-0.01
20) Perylene-d12	23.50	264	1325m	0.40	ng/ul	-0.02
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.06	152	373	0.18	ng/ul	-0.10
14) Fluoranthene-d10	19.10	212	1012	0.21	ng/ul	-0.04
Target Compounds						Qvalue
3) Naphthalene	10.48	128	439	0.11	ng/ul#	62
5) 2-Methylnaphthalene	12.13	142	507	0.20	ng/ul	98
12) Phenanthrene	17.07	178	1291m	0.24	ng/ul	
15) Fluoranthene	19.12	202	759	0.11	ng/ul	82
17) Pyrene	19.48	202	828	0.13	ng/ul#	71
18) Benzo(a)anthracene	21.25	228	423	0.08	ng/ul#	47
19) Chrysene	21.30	228	469	0.08	ng/ul#	56
21) Benzo(b)fluoranthene	22.83	252	497m	0.10	ng/ul	
22) Benzo(k)fluoranthene	22.85	252	233m	0.05	ng/ul	

S.J 12/30/16

S.J 12/30/16

S.J 12/30/16

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

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM122816\
Data File : BM008701.D
Acq On : 28 Dec 2016 19:44
Operator : UM/SJ
Sample : H6067-19
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 29 04:23:04 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 :
DA7H5

Manual Integrations APPROVED
mohammad
12/30/2016 8:53:44 AM