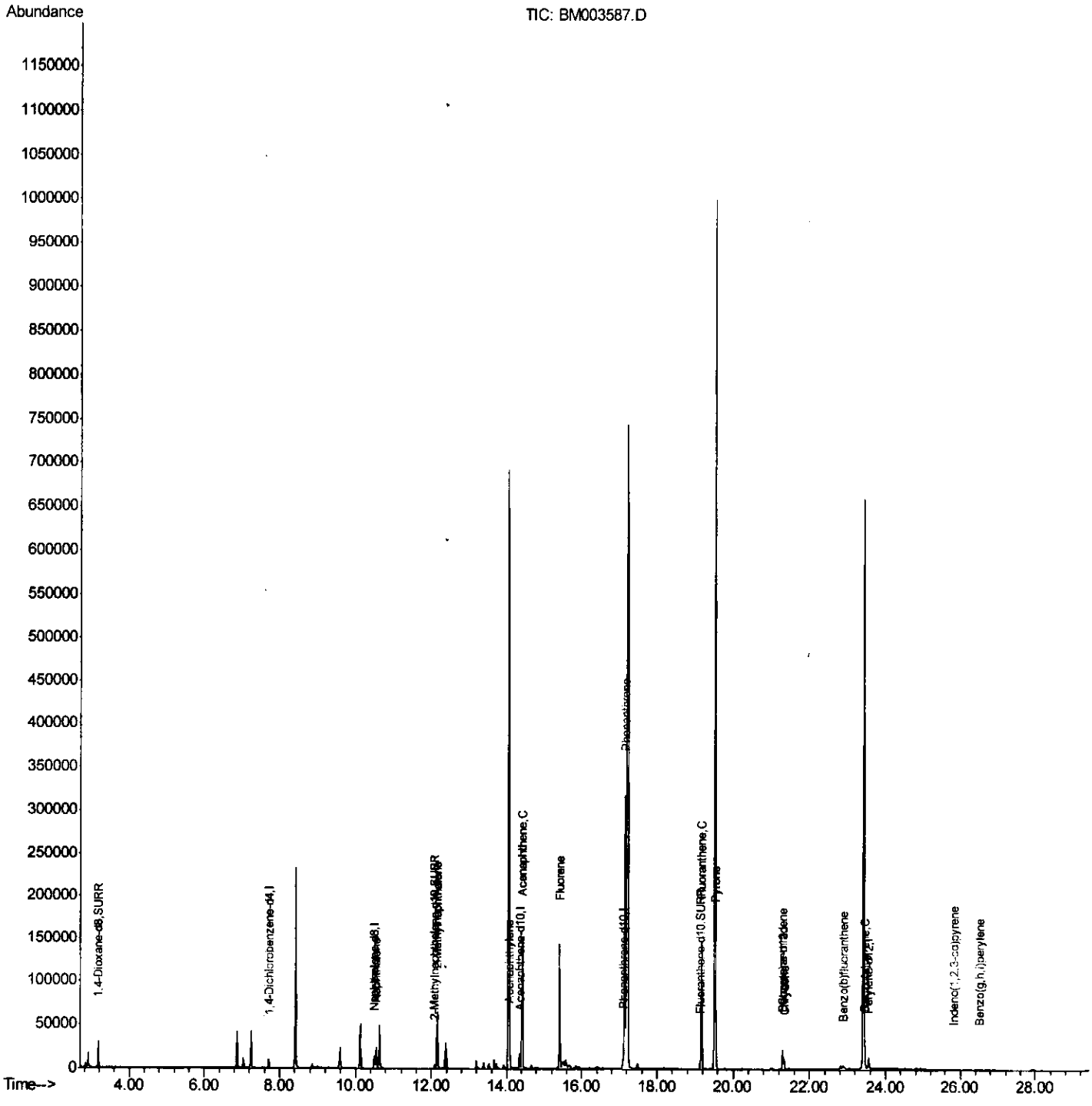
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:54:34 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



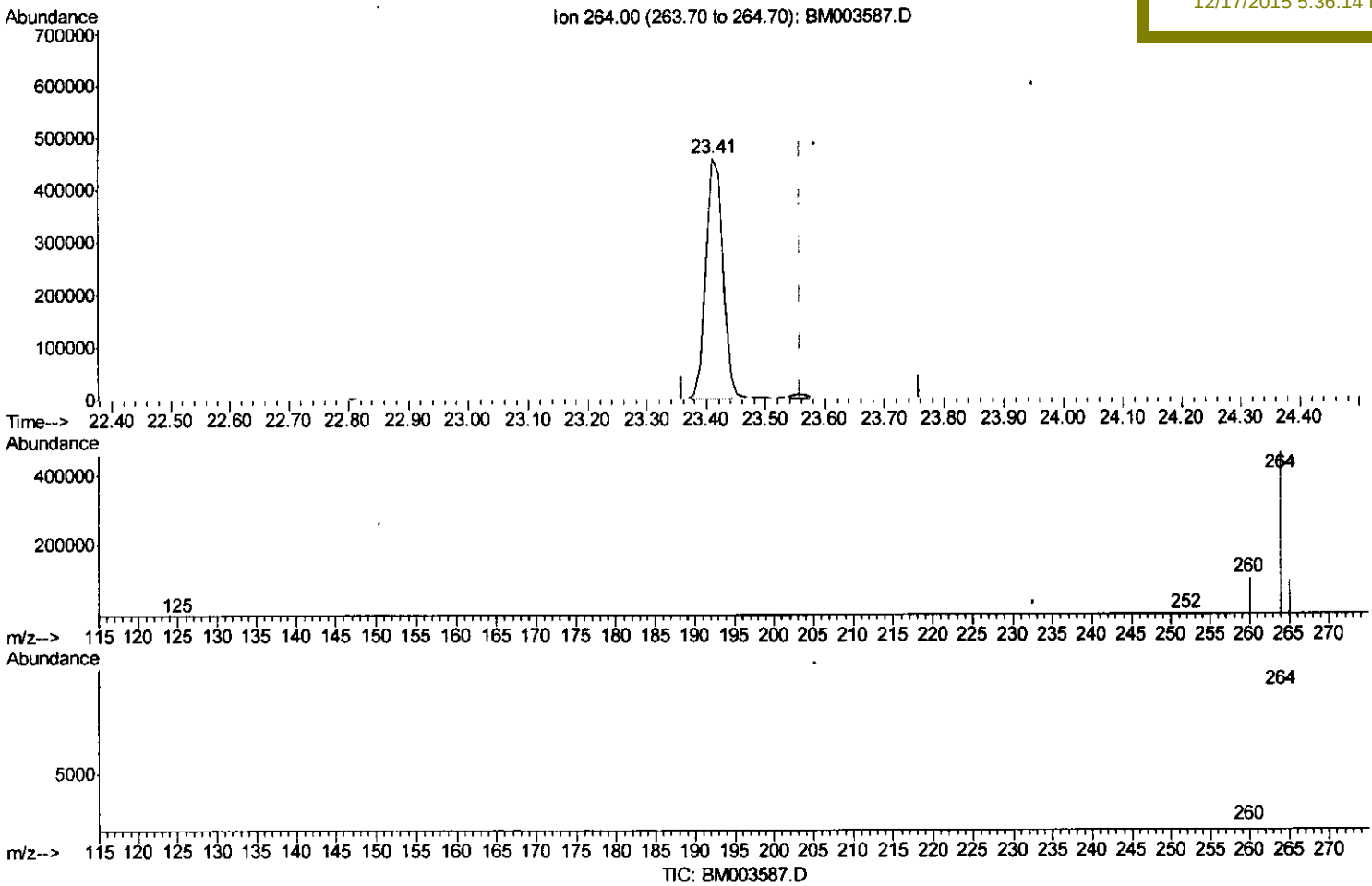
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 18 09:14:10 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 18 00:41:46 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



TIC: BM003587.D

(22) Perylene-d12 (I)

23.409min (-0.149) 0.40ng/ul

response 897077

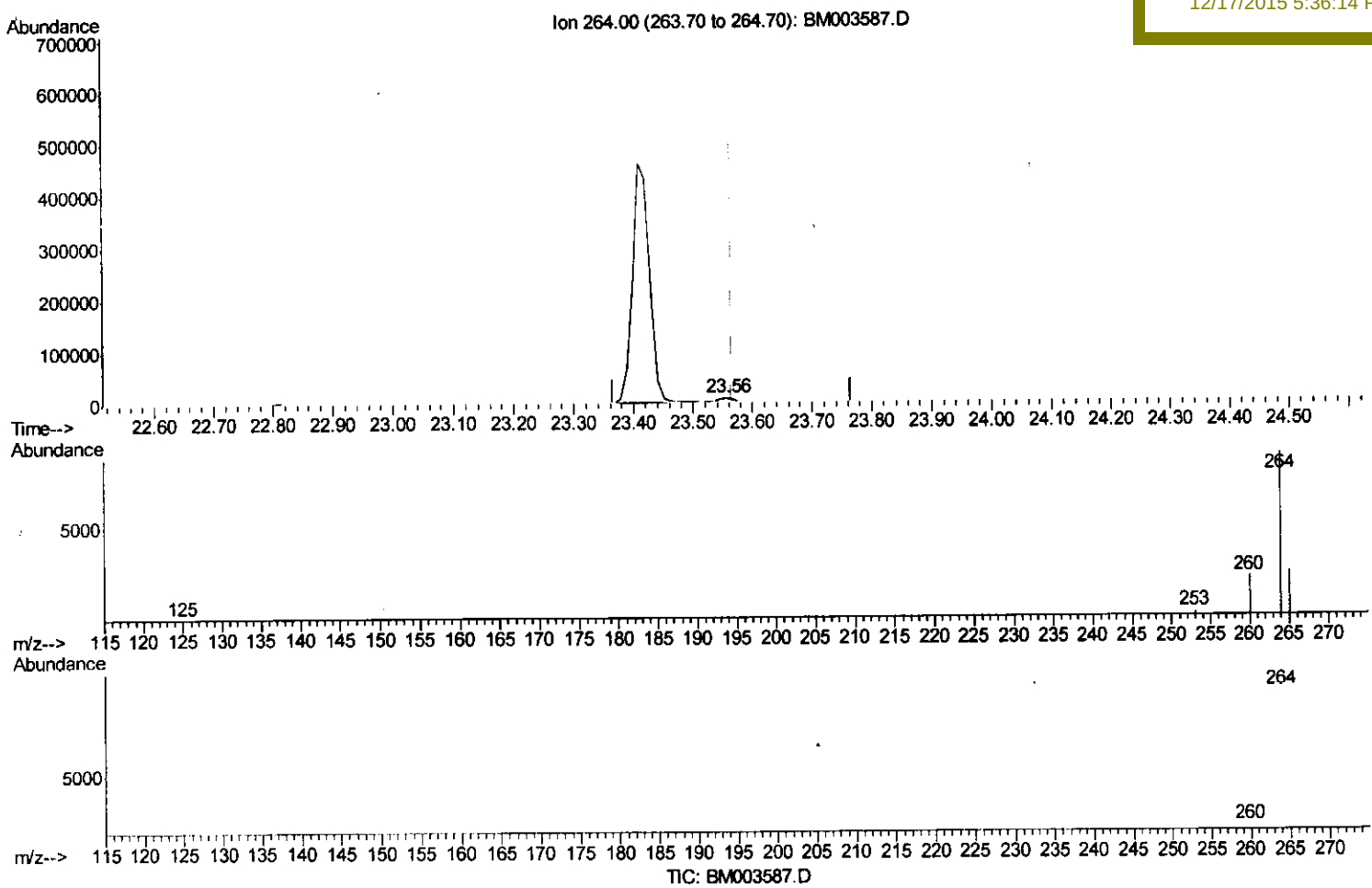
Ion	Exp%	Act%
264.00	100	100
260.00	25.60	22.23
265.00	38.20	20.70#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:54:34 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



(22) Perylene-d12 (I)

23.555min (-0.011) 0.40ng/ul m U.M 12/18/15

response 19618

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	25.74
265.00	38.20	28.67#
0.00	0.00	0.00

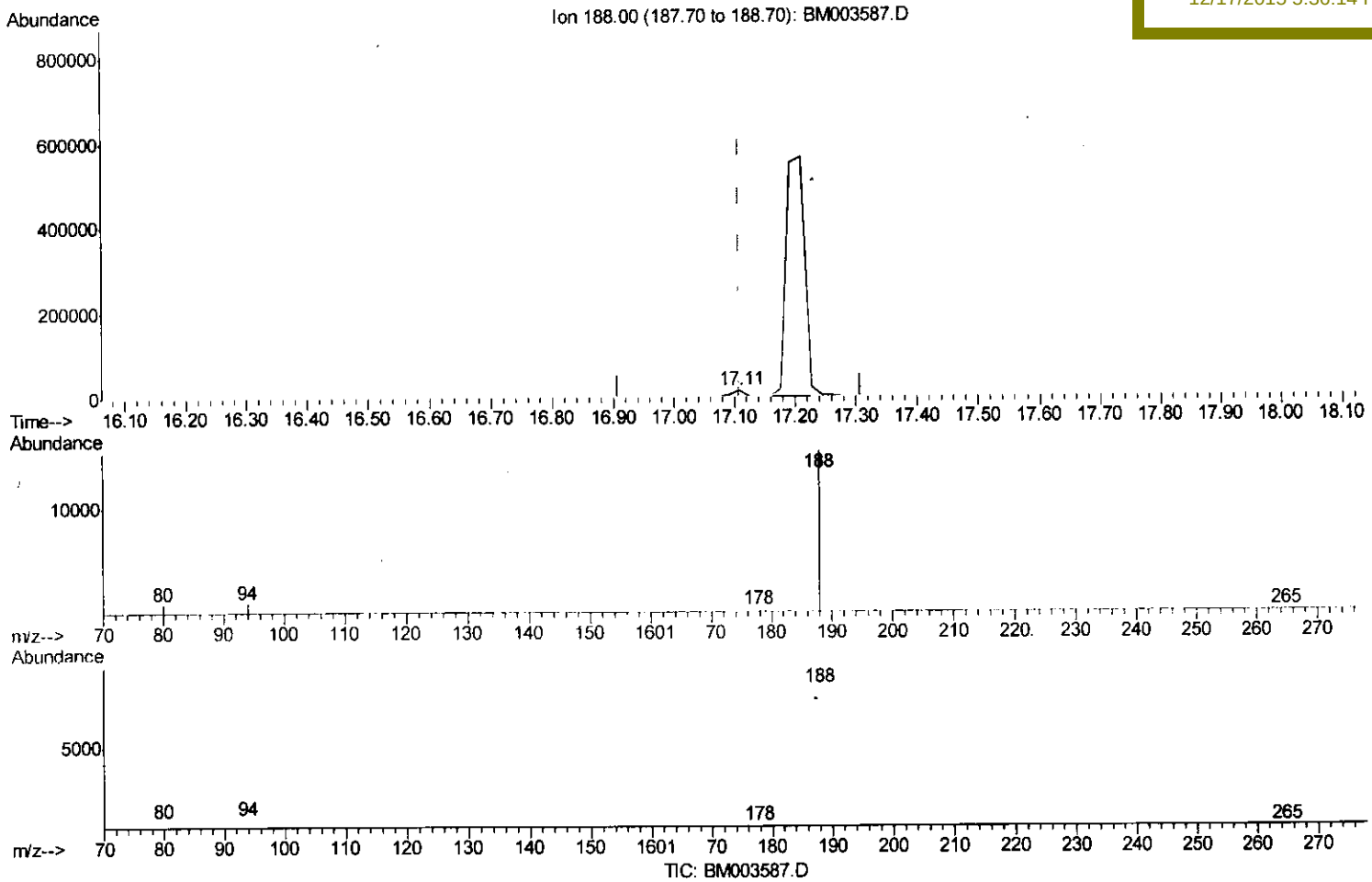
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:54:34 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



(12) Phenanthrene-d10 (I)

17.107min (-0.000) 0.40ng/ul m U.M 12/16/15

response 23381

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	6.39#
80.00	11.90	5.67#
0.00	0.00	0.00

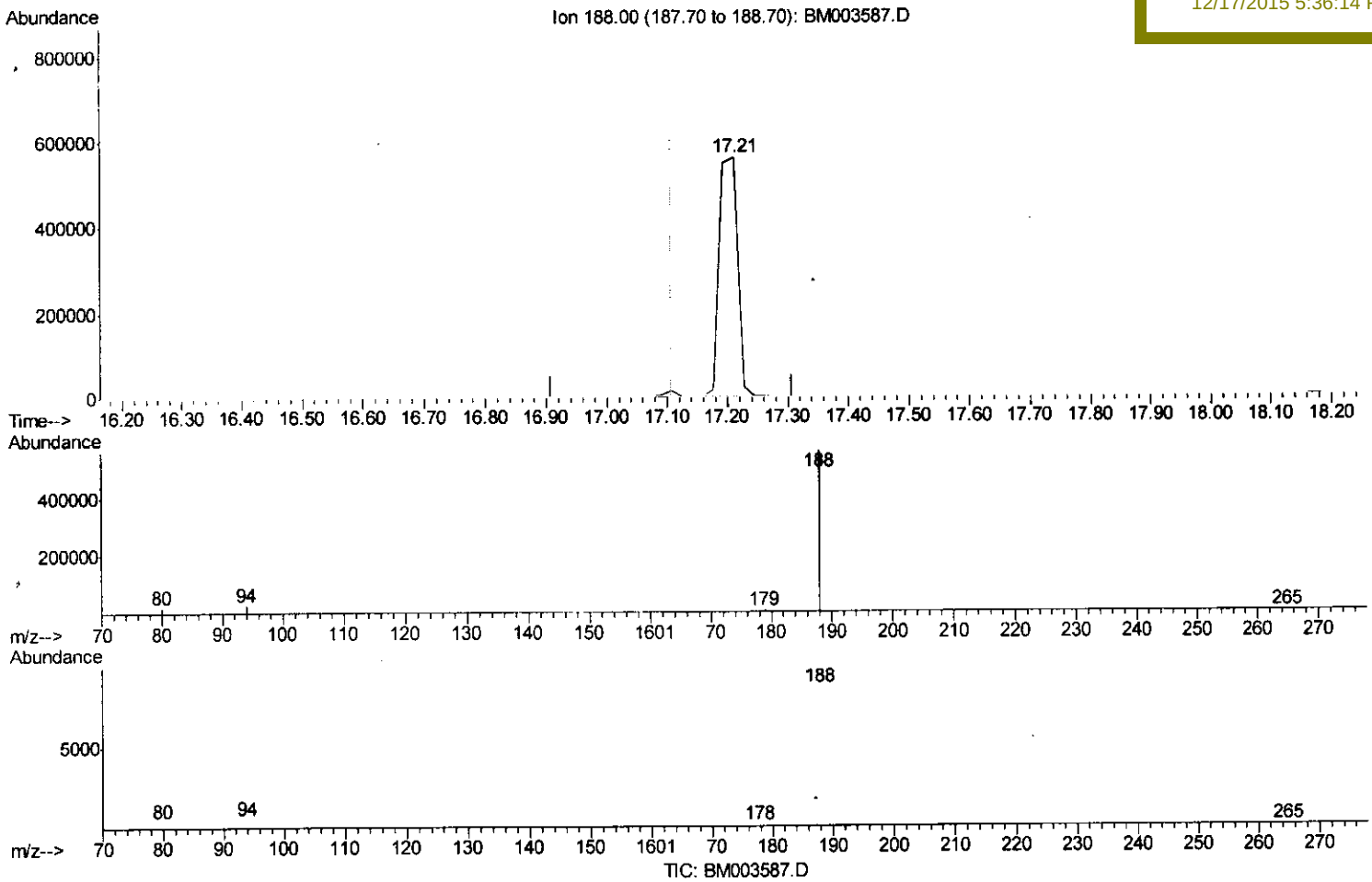
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : 04767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 18 09:14:10 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 18 00:41:46 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



(12) Phenanthrene-d10 (I)

17.210min (+0.103) 0.40ng/ul

response 1186437

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	4.75#
80.00	11.90	3.18#
0.00	0.00	0.00

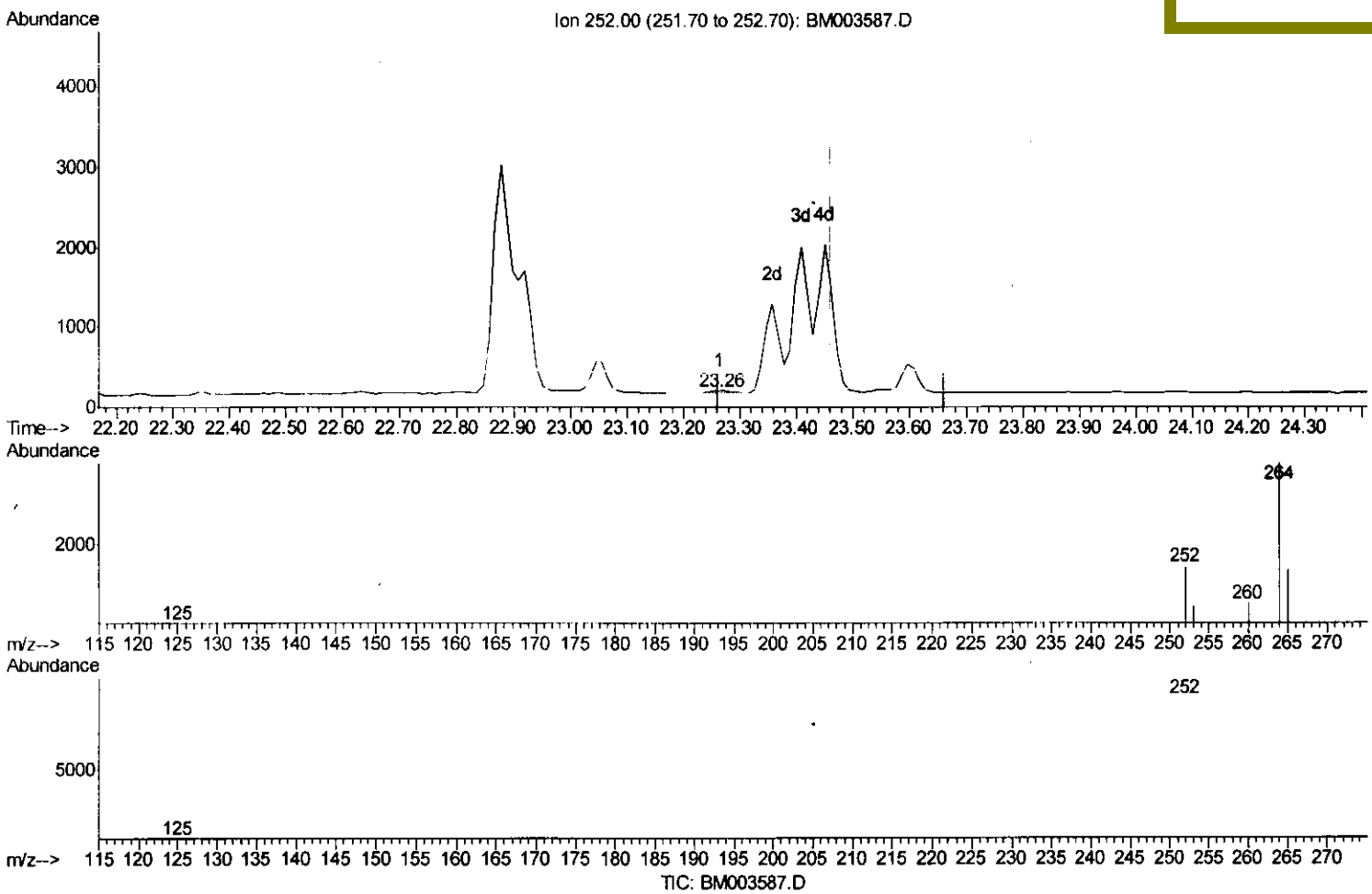
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : [illegible]
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



(25) Benzo(a)pyrene (C)

23.264min (-0.198) 0.00ng/ul

response 96

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	206.86#
125.00	15.90	107.35#
0.00	0.00	0.00

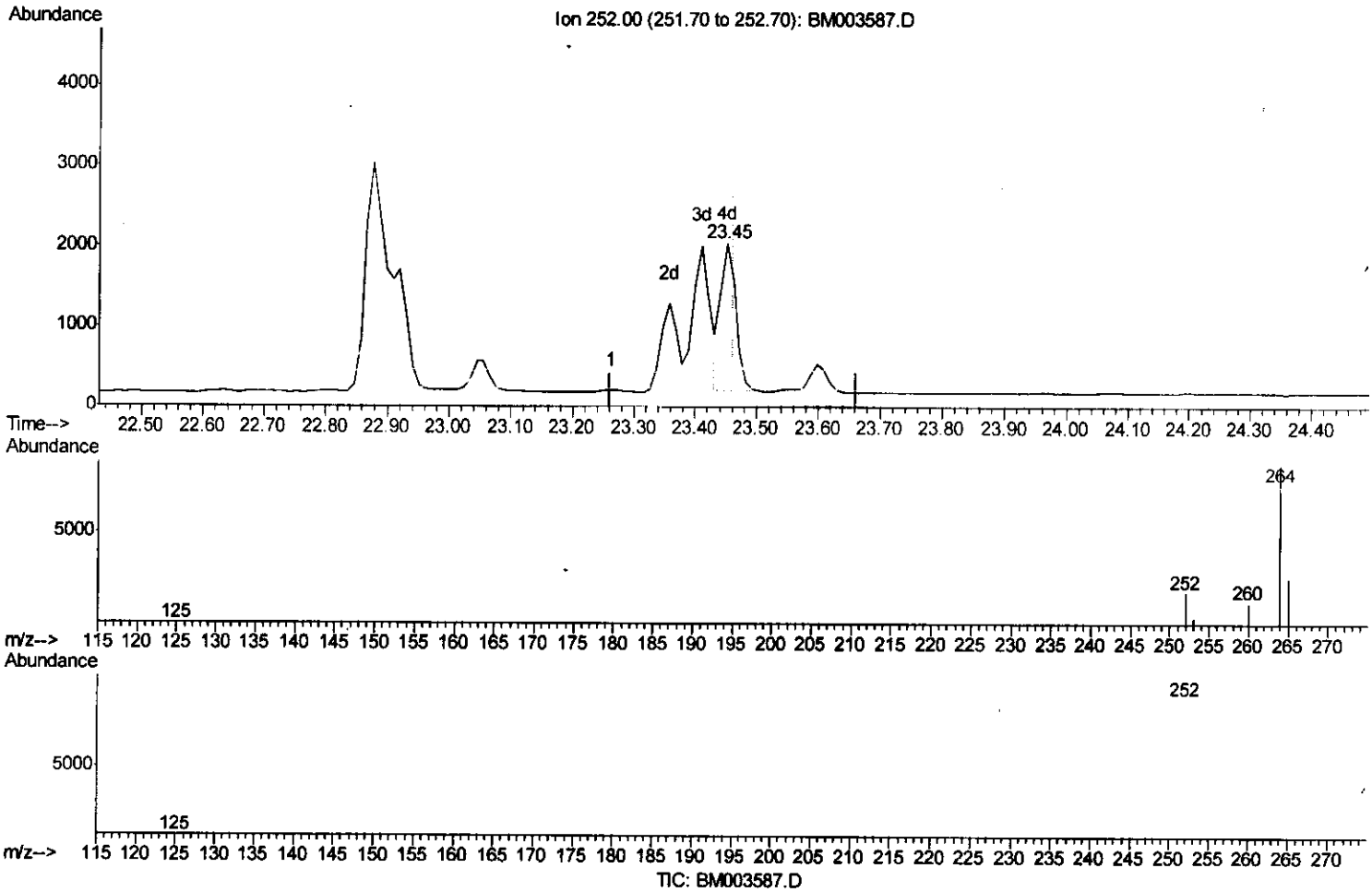
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



(25) Benzo(a)pyrene (C)

23.451min (-0.011) 0.06ng/ul m U.M 12/18/15

response 3144

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	39.34#
125.00	15.90	23.62#
0.00	0.00	0.00

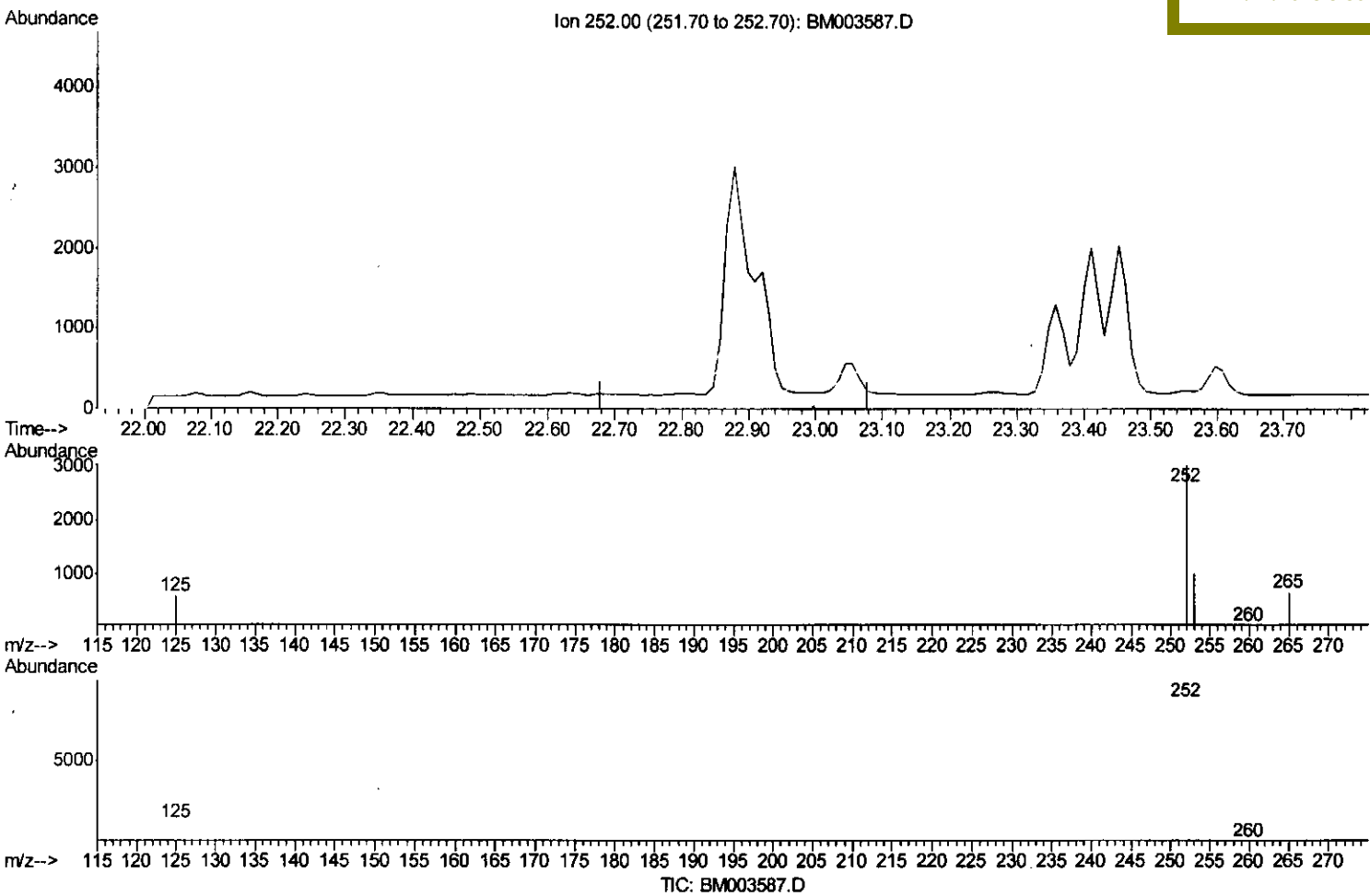
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



TIC: BM003587.D

(23) Benzo(b)fluoranthene

22.878min (-22.878) 0.00ng/ul

response 0

Ion	Exp%	Act%
252.00	100	0.00
253.00	22.70	0.00
125.00	14.40	0.00
0.00	0.00	0.00

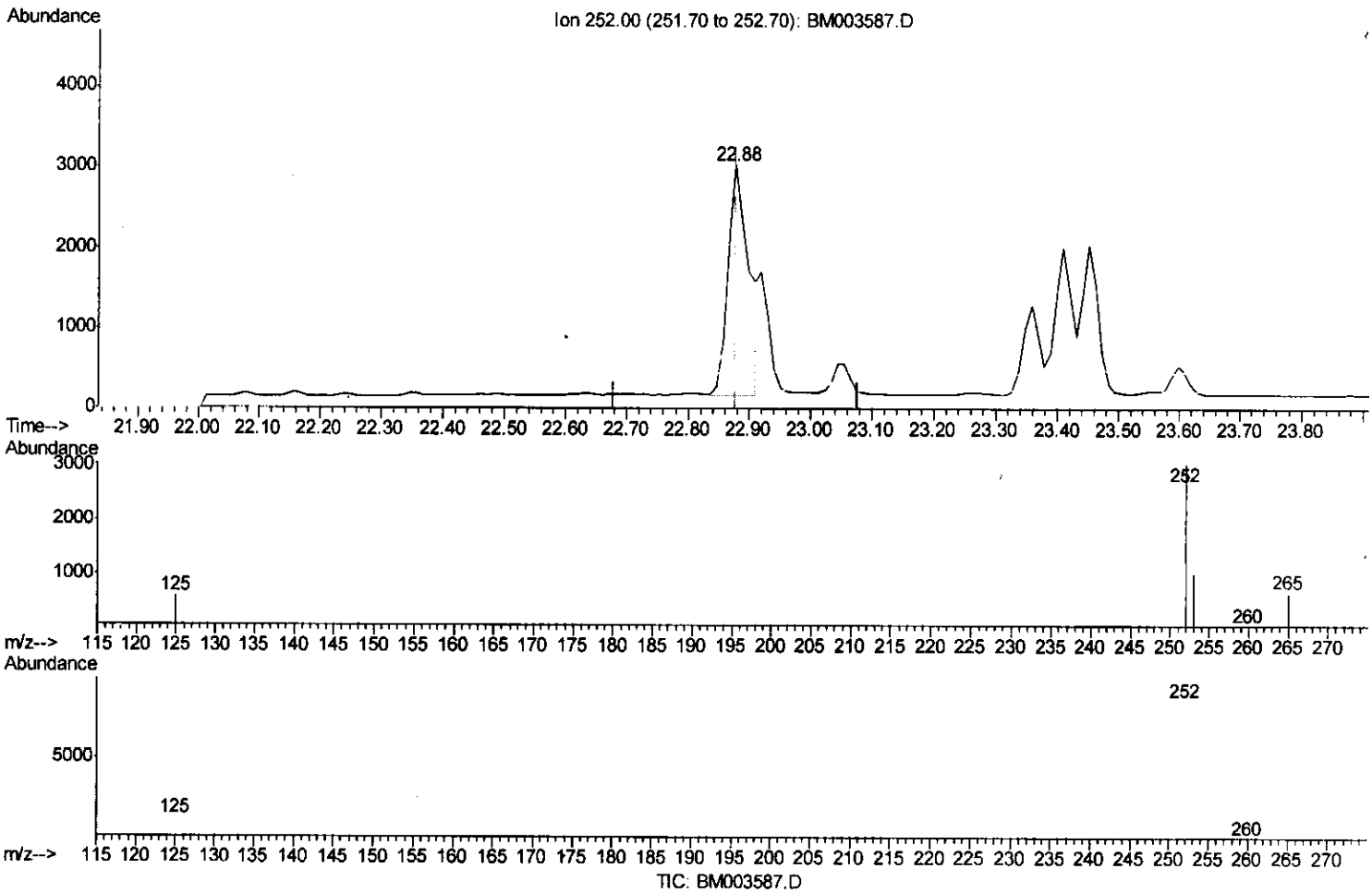
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



(23) Benzo(b)fluoranthene

22.878min (-0.000) 0.10ng/ul m U.M 12/18/15

response 6817

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	33.74
125.00	14.40	19.64
0.00	0.00	0.00

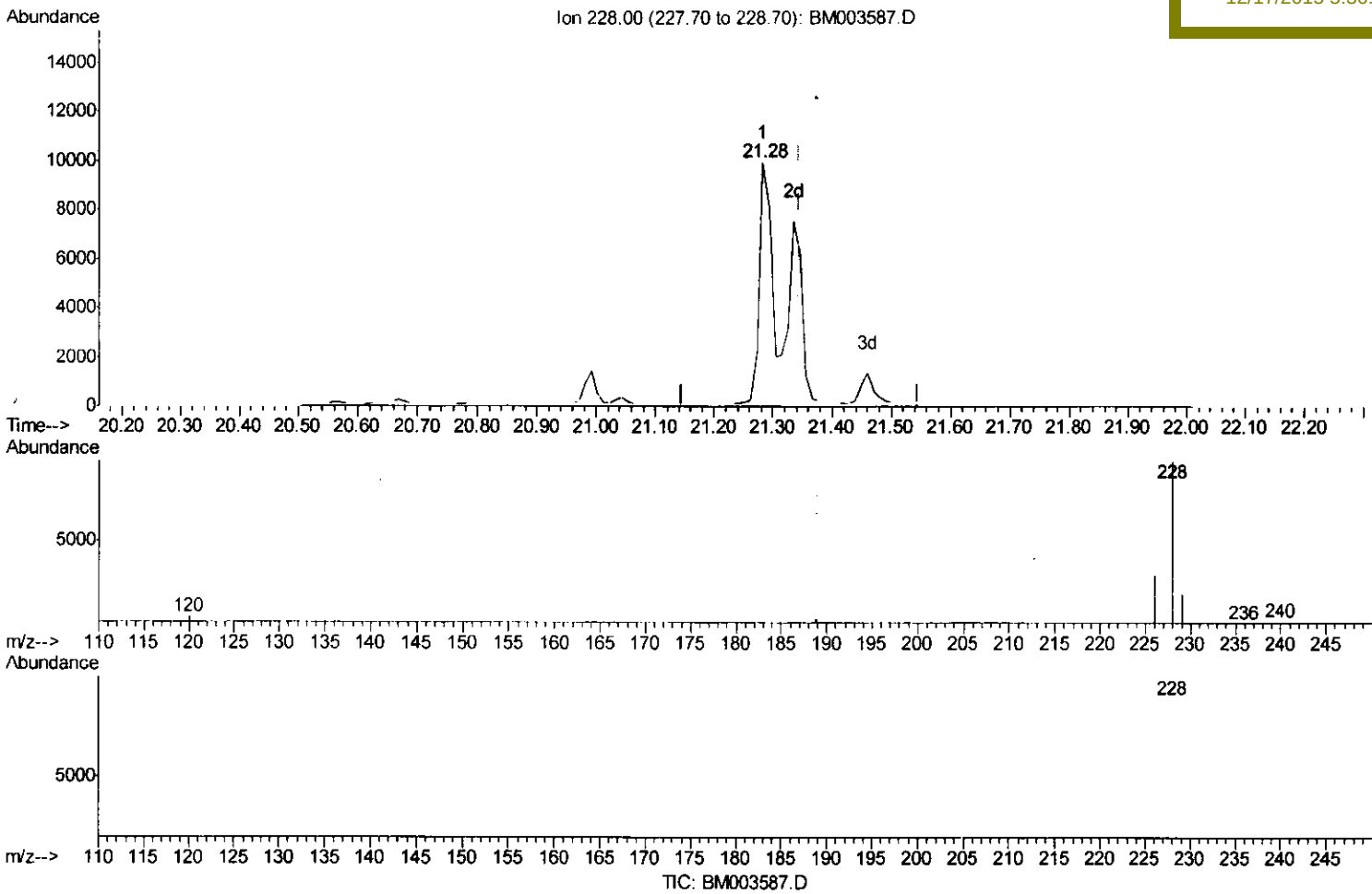
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



TIC: BM003587.D

(21) Chrysene

21.283min (-0.063) 0.29ng/ul

response 15308

Ion	Exp%	Act%
228.00	100	100
226.00	26.50	30.54
229.00	21.30	19.52
0.00	0.00	0.00

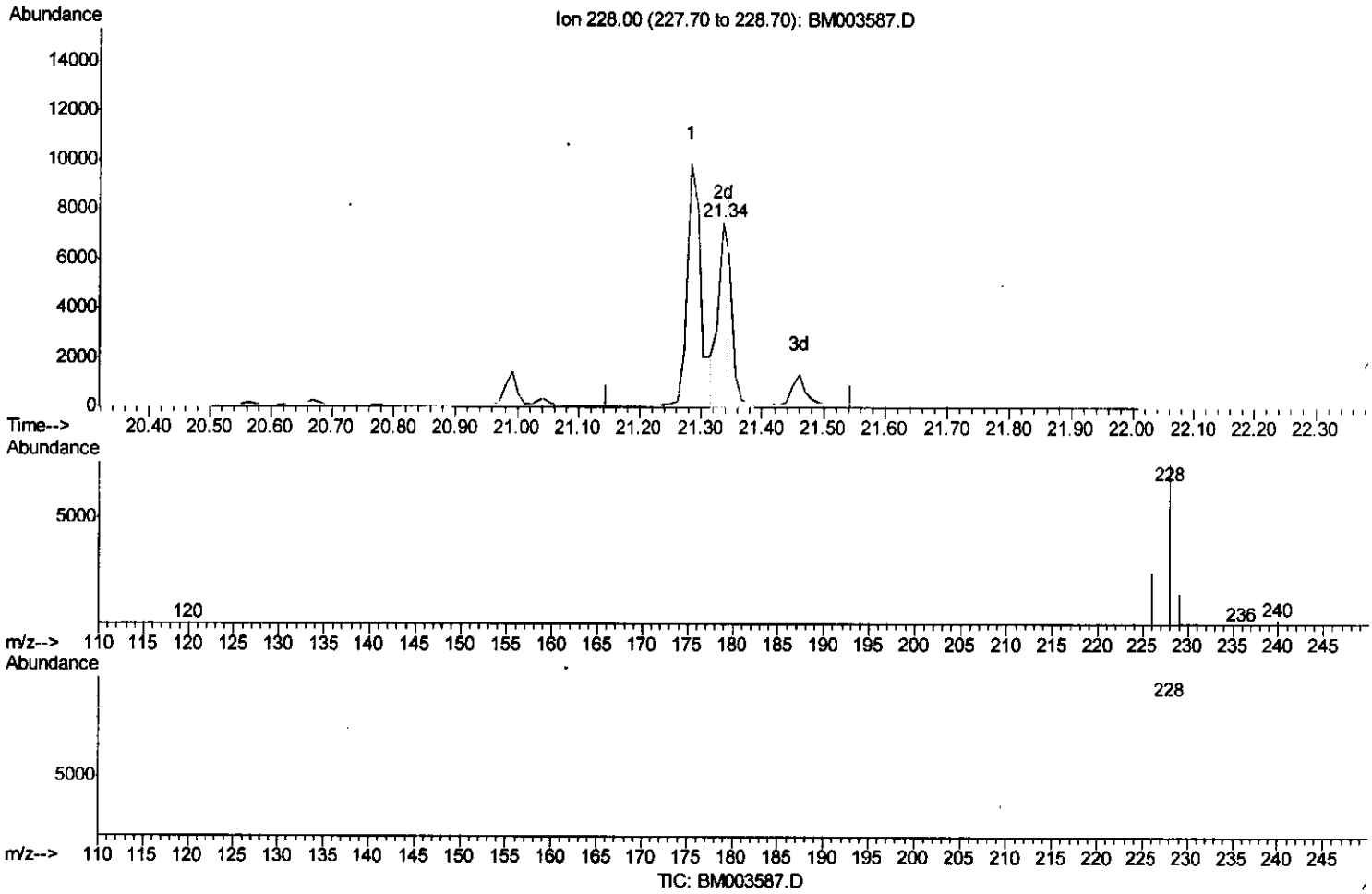
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



TIC: BM003587.D

(21) Chrysene

21.335min (-0.011) 0.23ng/ul m U.M 12/18/15

response 11775

Ion	Exp%	Act%
228.00	100	100
226.00	26.50	33.48#
229.00	21.30	20.52
0.00	0.00	0.00

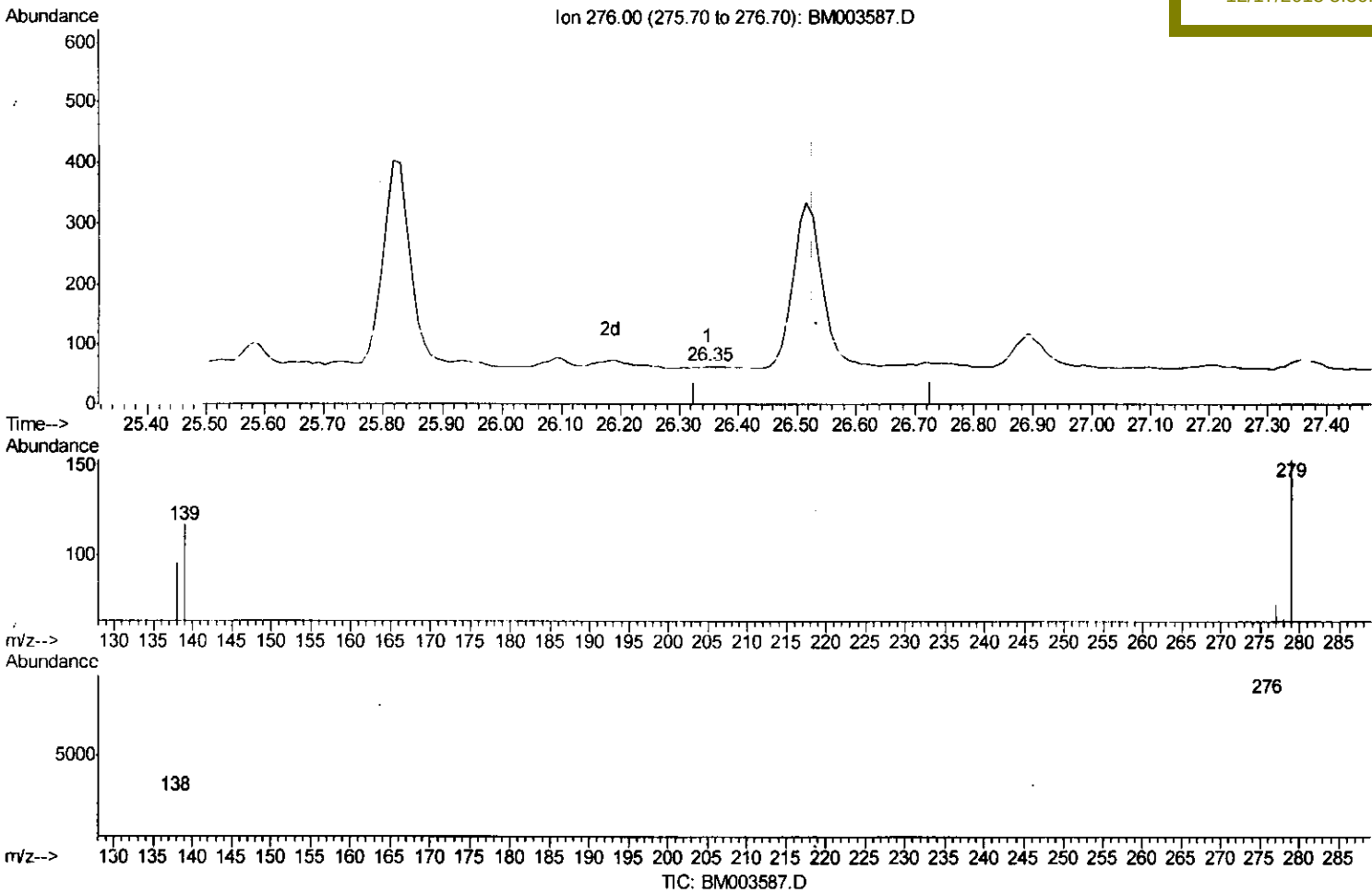
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



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

26.349min (-0.177) 0.00ng/ul

response 11

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	115.63#
138.00	28.10	150.00#
0.00	0.00	0.00

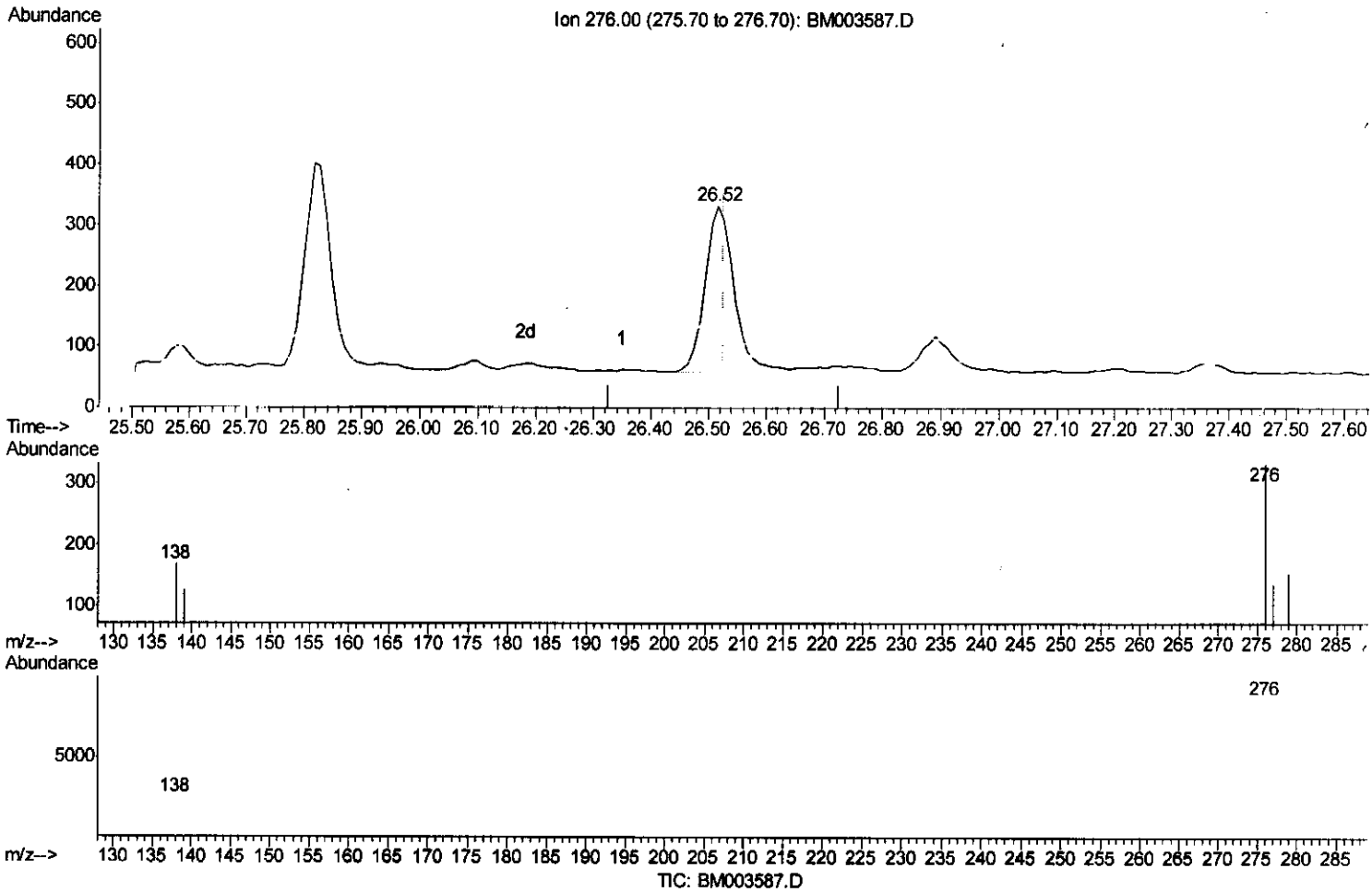
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



TIC: BM003587.D

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

26.516min (-0.011) 0.02ng/ul m U.M 12/18/15

response 958

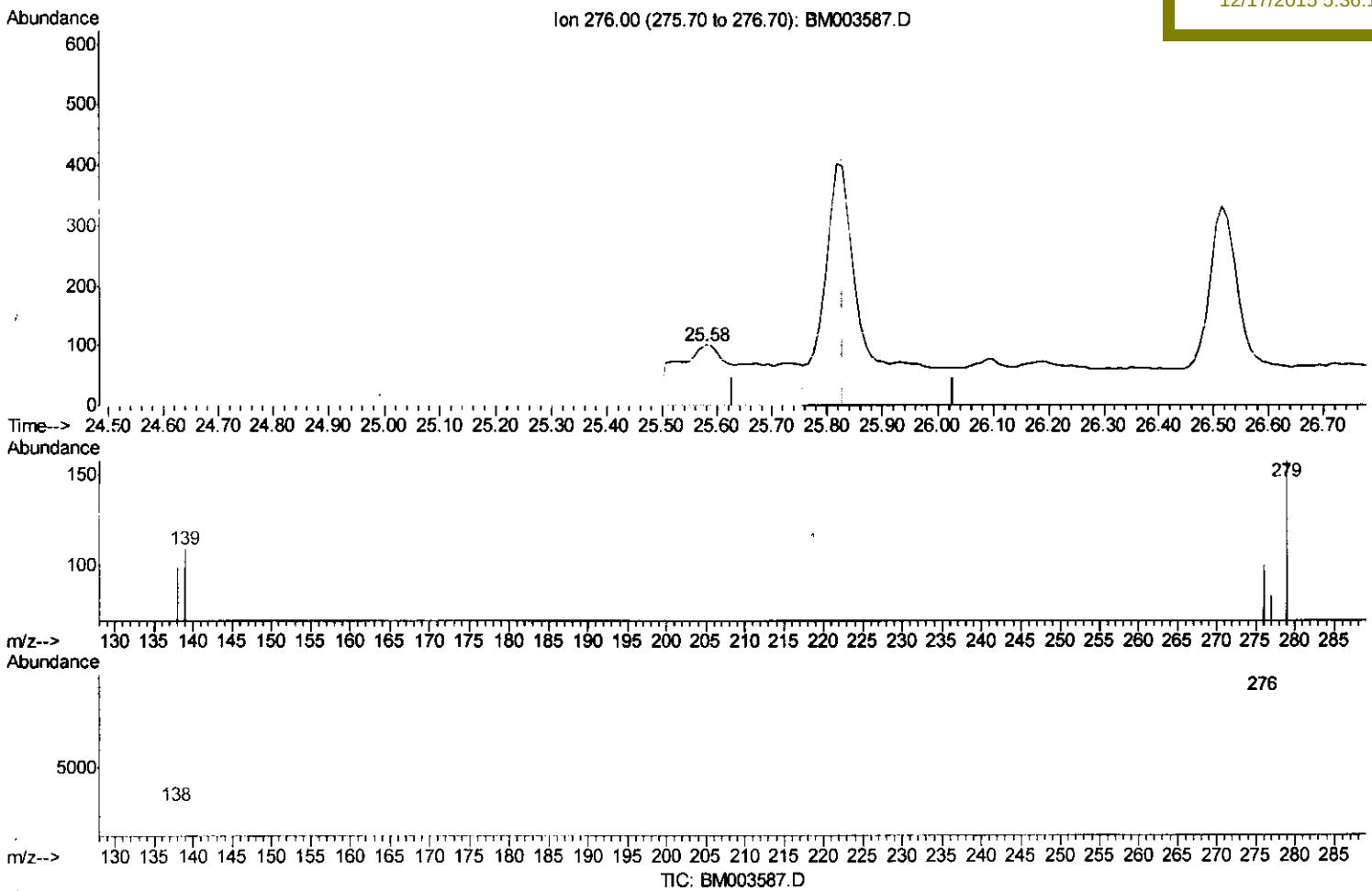
Ion	Exp%	Act%
276.00	100	100
277.00	23.60	40.84#
138.00	28.10	51.05#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOMC2.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS +DW + POINT CALIBRATION
Qlast Update : Thu Dec 17 07:36:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



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

25.578min (-0.250) 0.02ng/ul

response 1175

Ion	Exp%	Act%
276.00	100	100
138.00	20.40	78.98#
277.00	24.80	0.00#
0.00	0.00	0.00

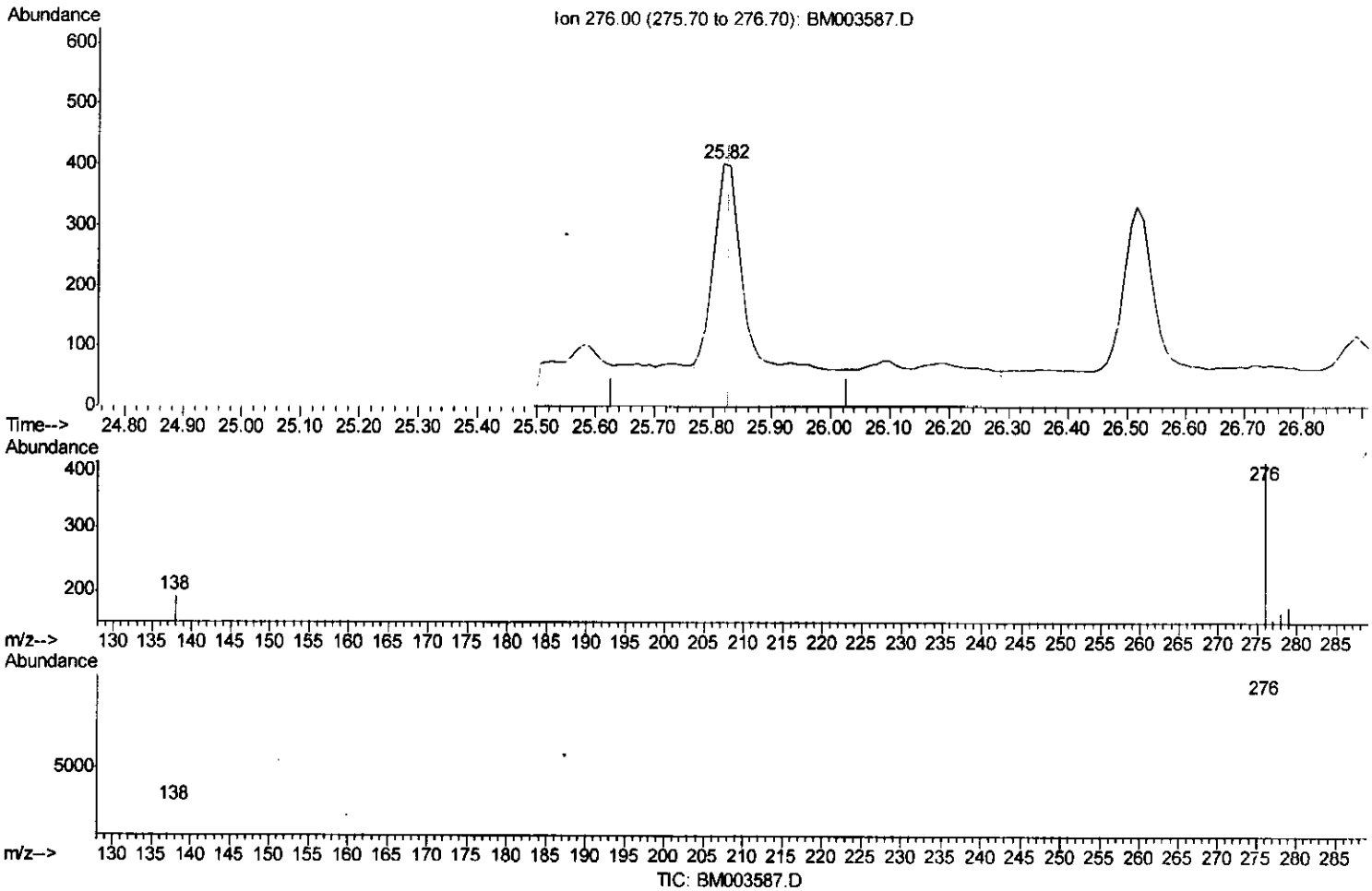
Quantitation Report (Qcdit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:52:33 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM



TIC: BM003587.D

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

25.817min (-0.011) 0.02ng/ul m U.M 12/18/15

response 1075

Ion	Exp%	Act%
276.00	100	100
138.00	20.40	86.33#
277.00	24.80	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003587.D
Acq On : 16 Dec 2015 20:54
Operator : UM/IZ
Sample : G4767-11
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 07:54:34 2015
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121515.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 17 02:56:38 2015
Response via : Initial Calibration

Instrument : BNA_M
ClientSampleId : D9N33

Manual Integrations APPROVED
MMdadoda
12/17/2015 5:36:14 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	4773	0.40	ng/ul	0.00
4) Naphthalene-d8	10.50	136	20194	0.40	ng/ul	0.00
8) Acenaphthene-d10	14.37	164	11848	0.40	ng/ul	0.00
12) Phenanthrene-d10	17.11	188	23381m	0.40	ng/ul	0.00
18) Chrysene-d12	21.30	240	18657	0.40	ng/ul	-0.01
22) Perylene-d12	23.56	264	19618m	0.40	ng/ul	-0.01
System Monitoring Compounds						
2) 1,4-Dioxane-d8	3.17	96	20808	10.20	ng/uL	0.00
6) 2-Methylnaphthalene-d10	12.09	152	6596	0.27	ng/ul	-0.01
16) Fluoranthene-d10	19.14	212	12064	0.24	ng/ul	0.00
Target Compounds						Qvalue
5) Naphthalene	10.55	128	32700	0.72	ng/ul	99
7) 2-Methylnaphthalene	12.16	142	47269	1.55	ng/ul	99
9) Acenaphthylene	14.07	152	2893	0.06	ng/ul#	86
10) Acenaphthene	14.42	153	88039	2.41	ng/ul	90
11) Fluorene	15.41	166	91562	2.26	ng/ul	89
14) Phenanthrene	17.14	178	328536	5.45	ng/ul	94
17) Fluoranthene	19.17	202	137856	2.10	ng/ul	99
19) Pyrene	19.53	202	97831	1.94	ng/ul	99
20) Benzo(a)anthracene	21.28	228	15338	0.34	ng/ul#	91
21) Chrysene	21.34	228	11775m	0.23	ng/ul	
23) Benzo(b)fluoranthene	22.88	252	6817m	0.10	ng/ul	
25) Benzo(a)pyrene	23.45	252	3144m	0.06	ng/ul	
26) Indeno(1,2,3-cd)pyrene	25.82	276	1075m	0.02	ng/ul	
28) Benzo(g,h,i)perylene	26.52	276	958m	0.02	ng/ul	

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