

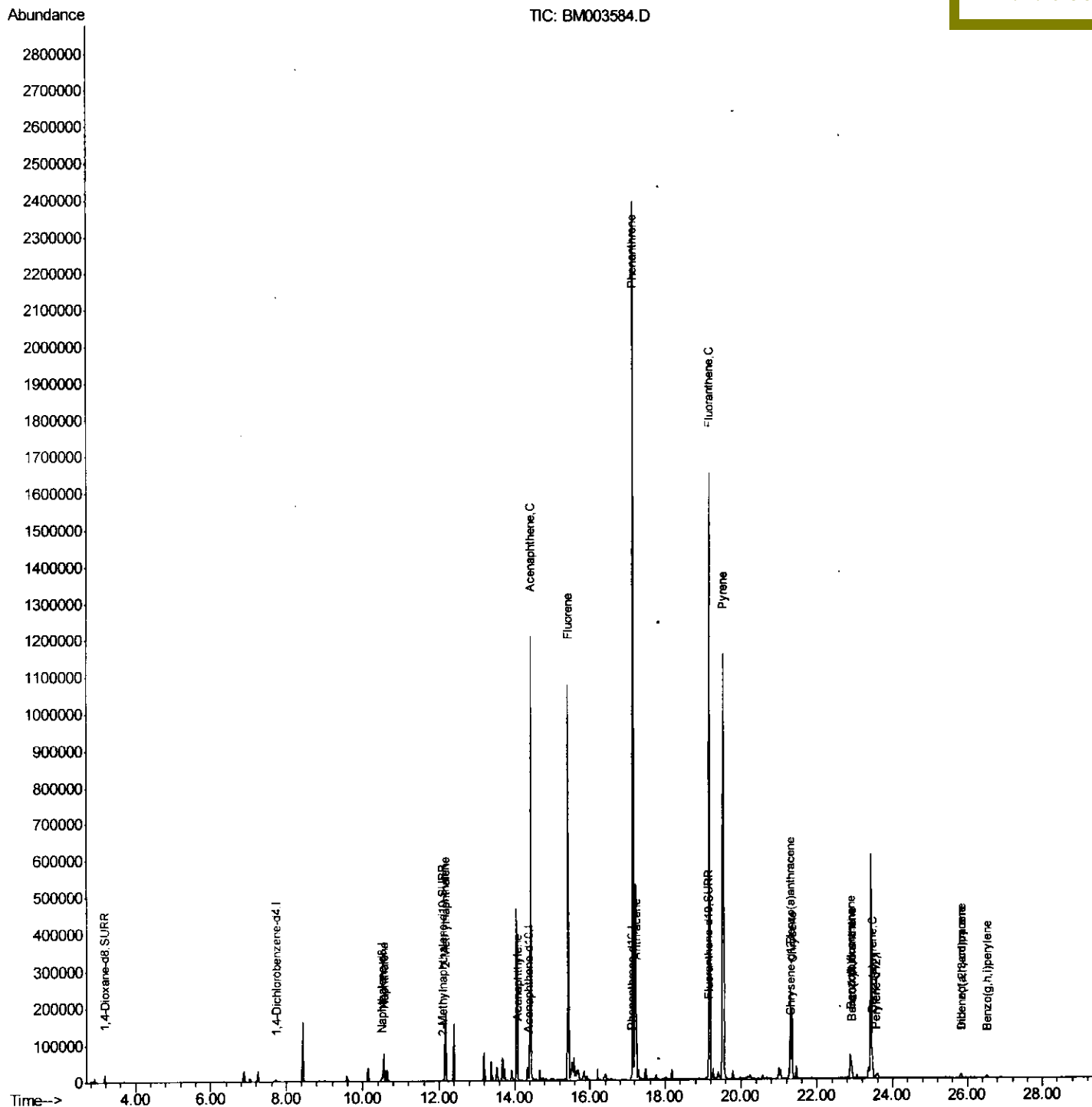
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
Data File : BM003584.D
Acq On : 16 Dec 2015 19:06
Operator : UM/IZ
Sample : G4767-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
D9N30

Quant Time: Dec 17 07:46:36 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

Manual Integrations
APPROVED

MMdadoda
12/17/2015 5:36:06 PM



Quantitation Report (Qedit)

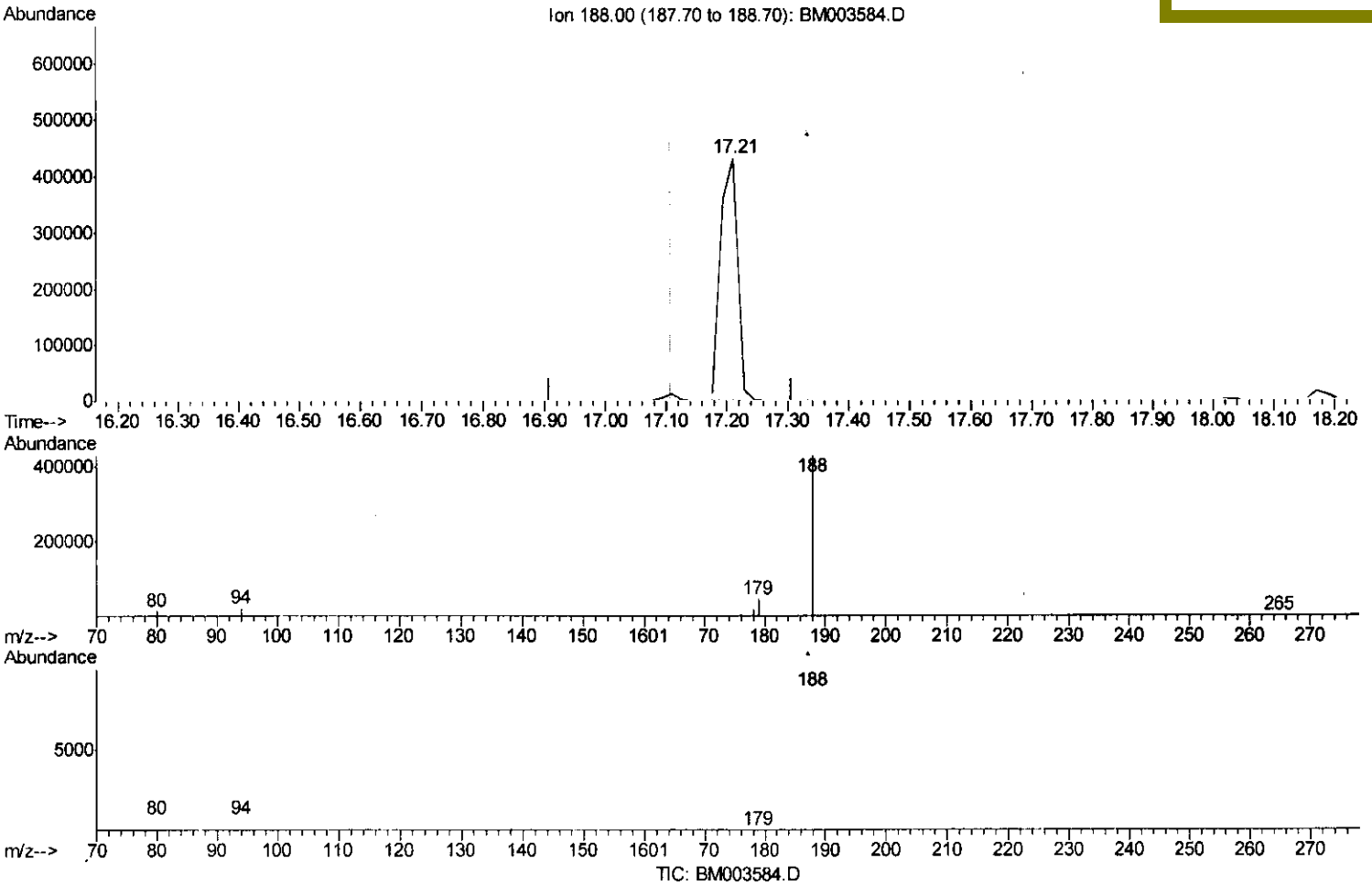
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 03:01:15 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



(12) Phenanthrene-d10 (I)

17.211min (+0.103) 0.40ng/ul

response 841959

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	4.85#
80.00	11.90	3.29#
0.00	0.00	0.00

Quantitation Report (Qedit)

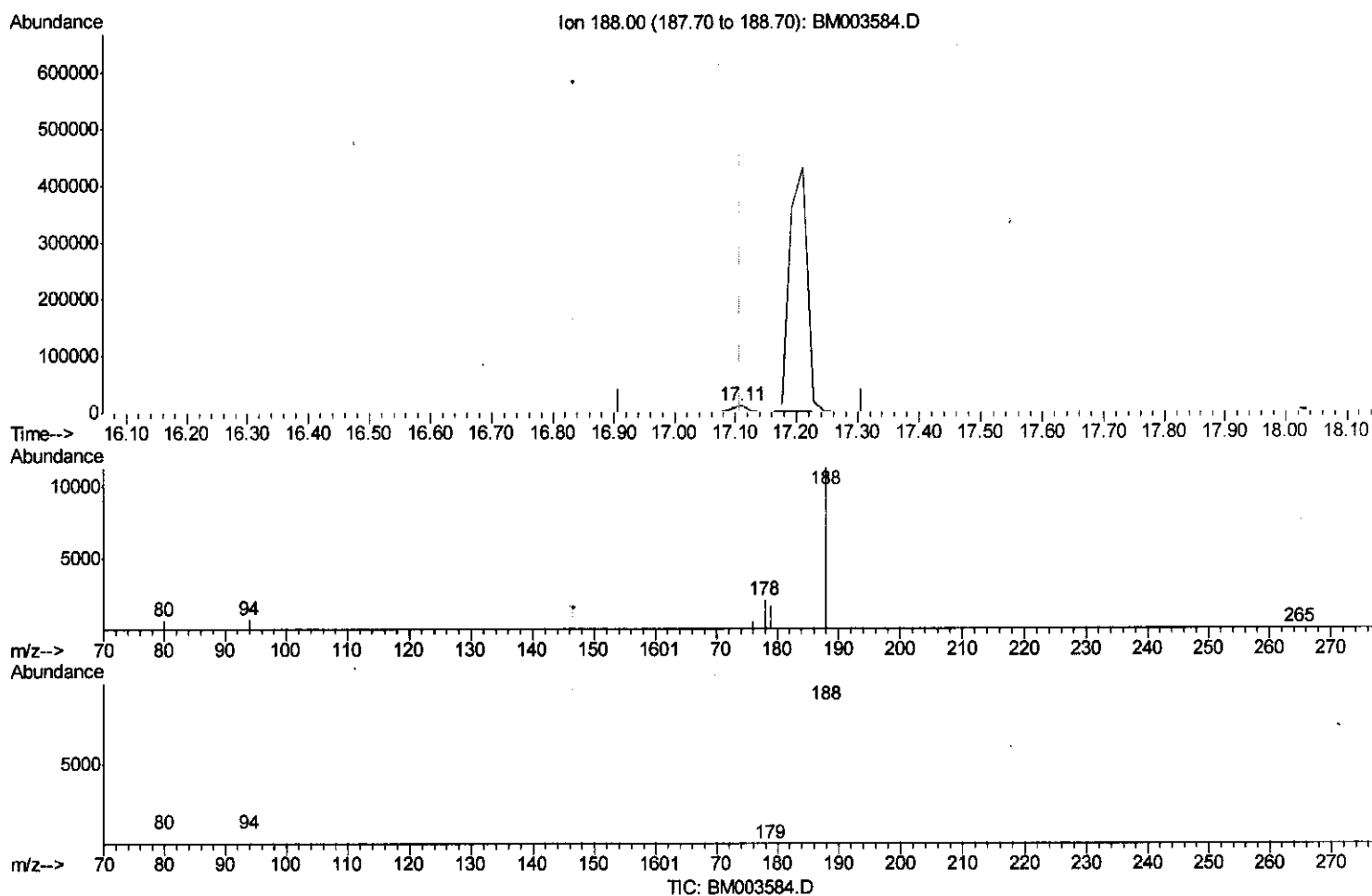
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 03:01:15 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



(12) Phenanthrene-d10 (I)

17.108min (+0.000) 0.40ng/ul m U,M
 response 16995 12/18/15

Ion	Exp%	Act%
188.00	100	100
94.00	11.70	6.91#
80.00	11.90	6.21#
0.00	0.00	0.00

Quantitation Report (Qedit)

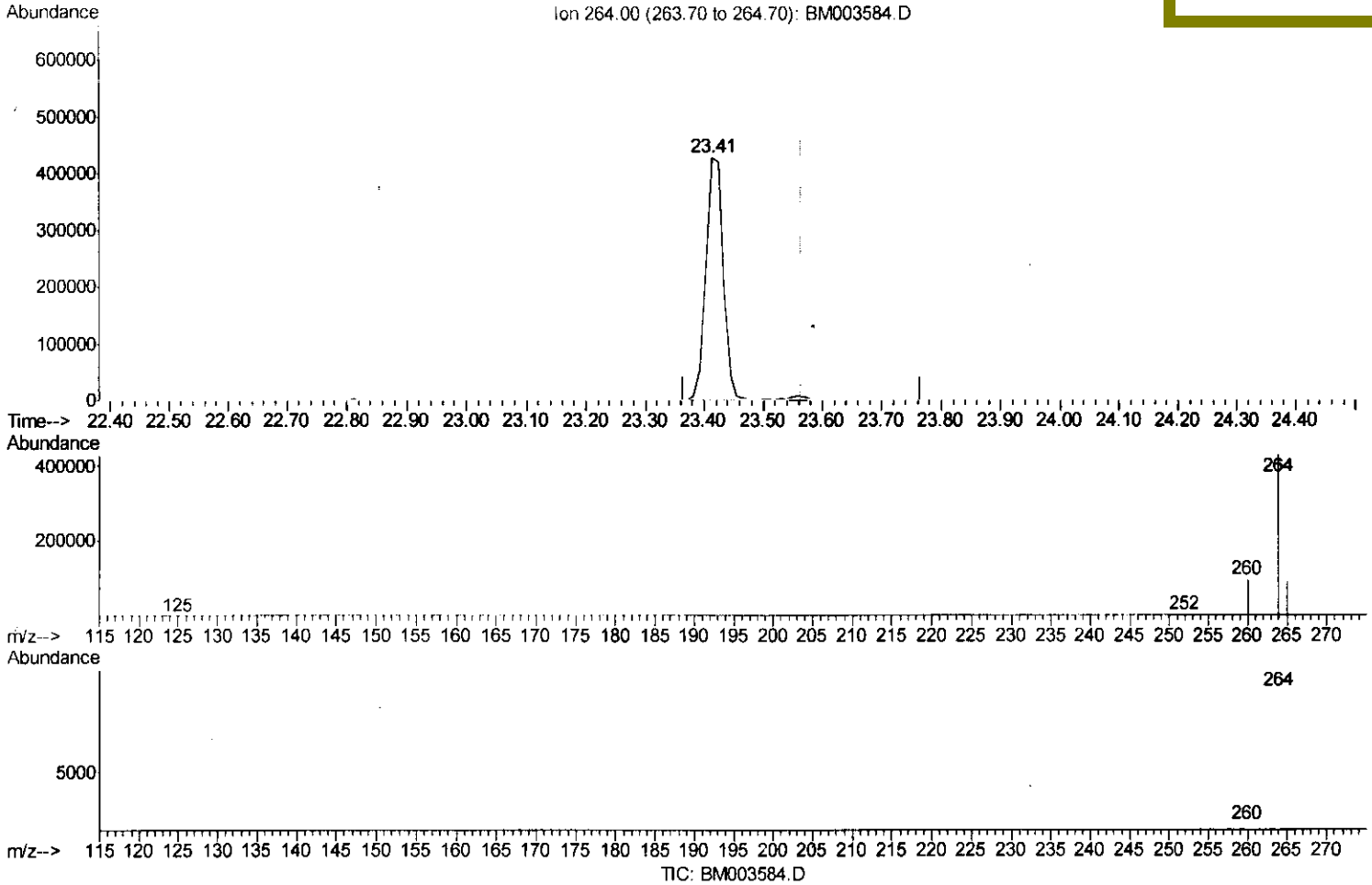
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 10 Dec 2015 19:06
 Operator : UN/14
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 03:01:15 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



(22) Perylene-d12 (I)

23.413min (-0.153) 0.40ng/ul

response 849419

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	22.42
265.00	38.20	20.59#
0.00	0.00	0.00

Quantitation Report (Qedit)

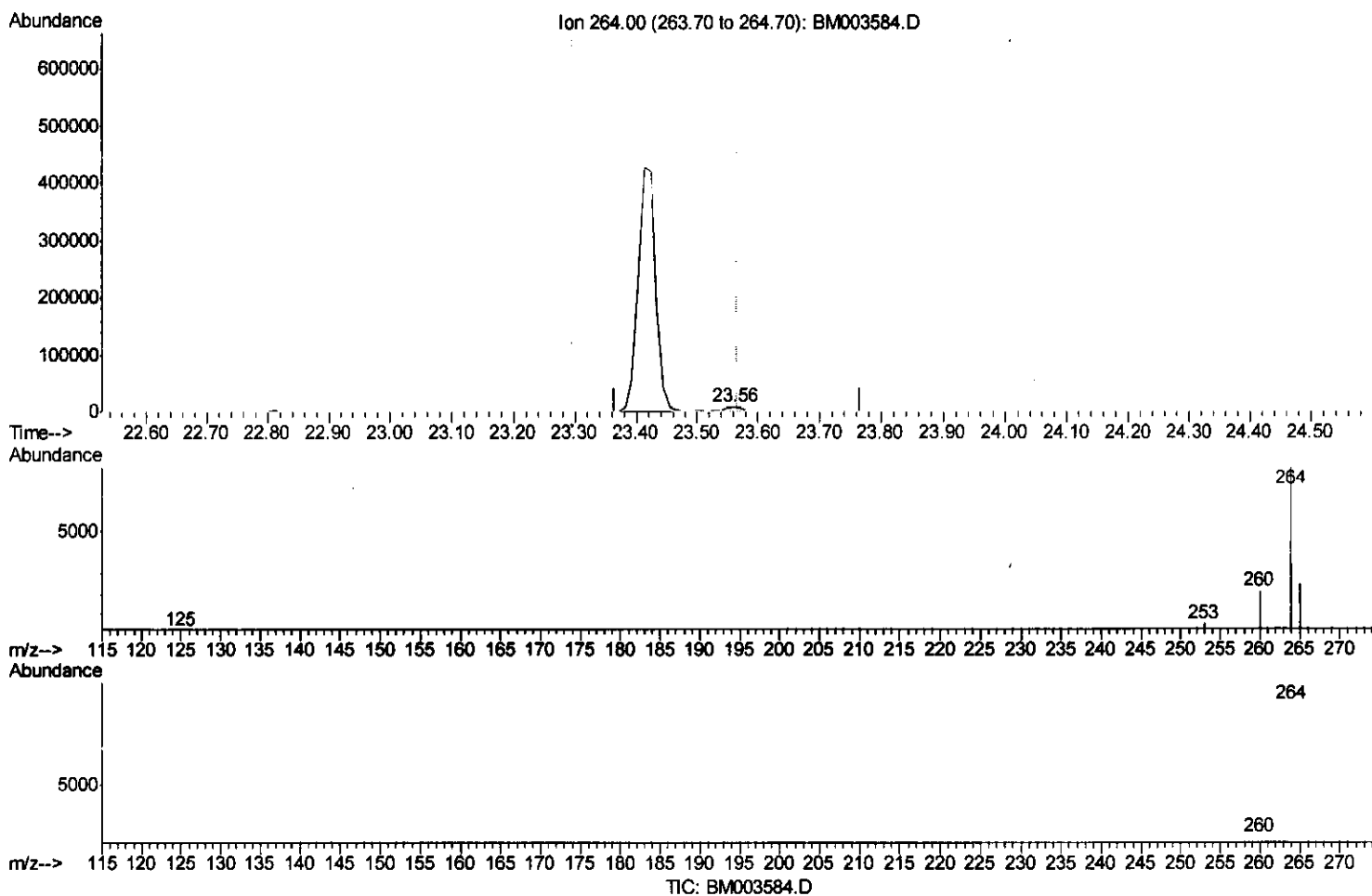
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 03:01:15 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



(22) Perylene-d12 (I)

23.559min (-0.007) 0.40ng/ul m

response 17308

Ion	Exp%	Act%
264.00	100	100
260.00	25.60	26.07
265.00	38.20	30.84
0.00	0.00	0.00

U.M
 12/18/15

Quantitation Report (Qedit)

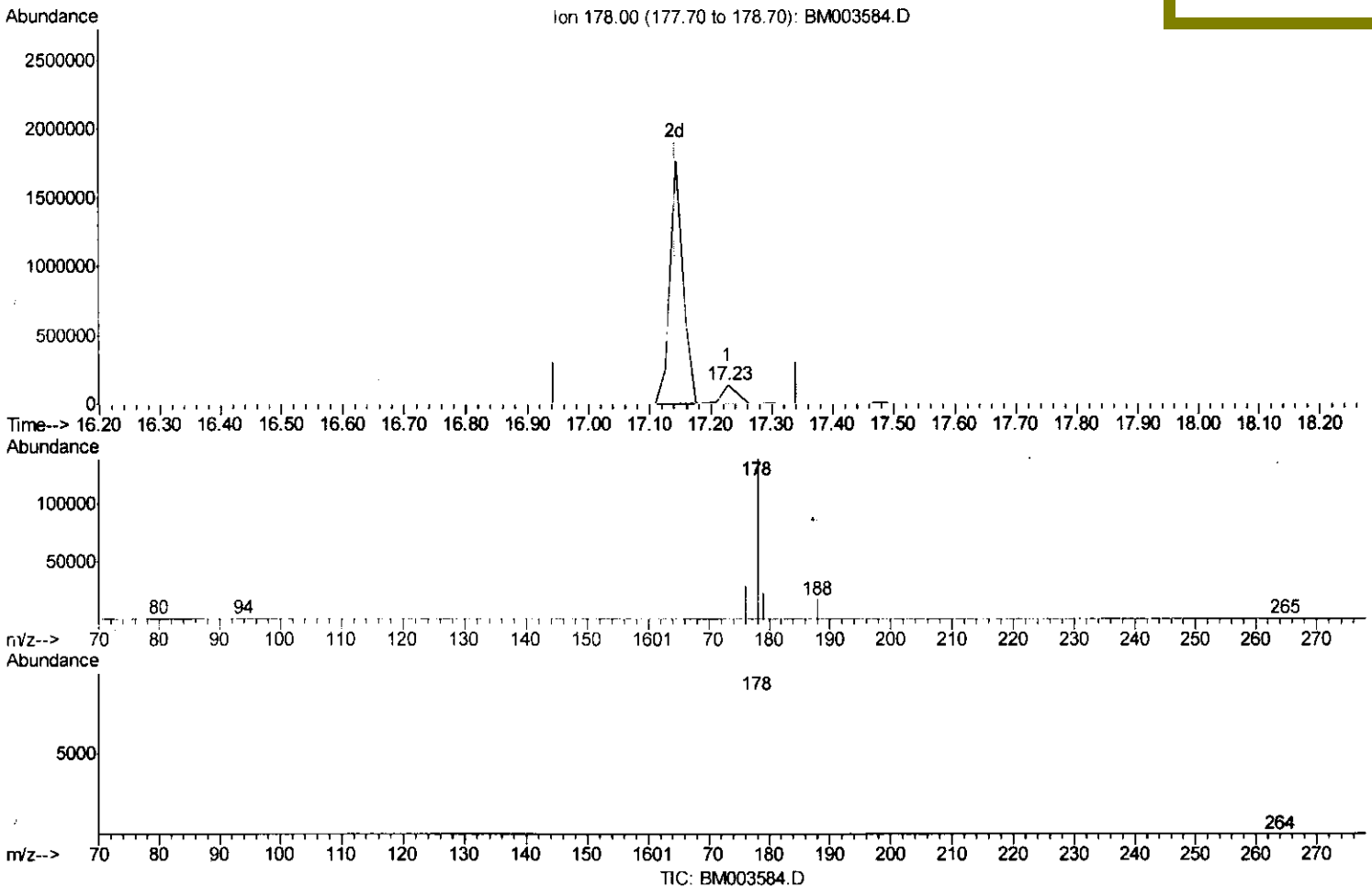
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : C4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Quant Time: Dec 17 07:44:53 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

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM



(14) Phenanthrene

17.228min (+0.086) 5.34ng/ul

response 234264

Ion	Exp%	Act%
178.00	100	100
176.00	16.20	20.28#
179.00	17.70	16.25
0.00	0.00	0.00

Quantitation Report (Qedit)

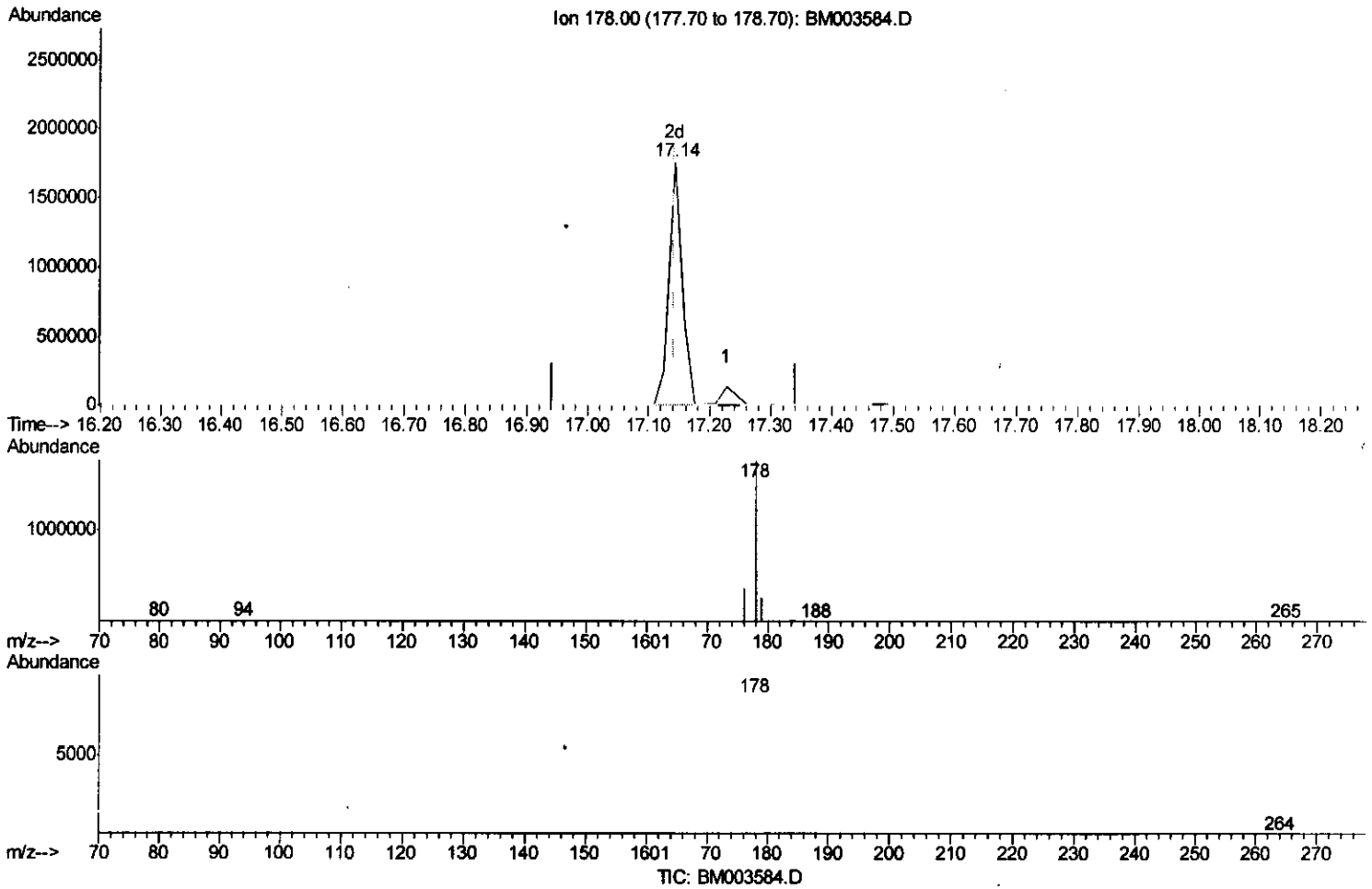
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 07:44:53 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



(14) Phenanthrene

17.142min (+0.000) 61.36ng/ul m

response 2689482

U.M
 12/18/15

Ion	Exp%	Act%
178.00	100	100
176.00	16.20	20.84#
179.00	17.70	15.22
0.00	0.00	0.00

Quantitation Report (Qedit)

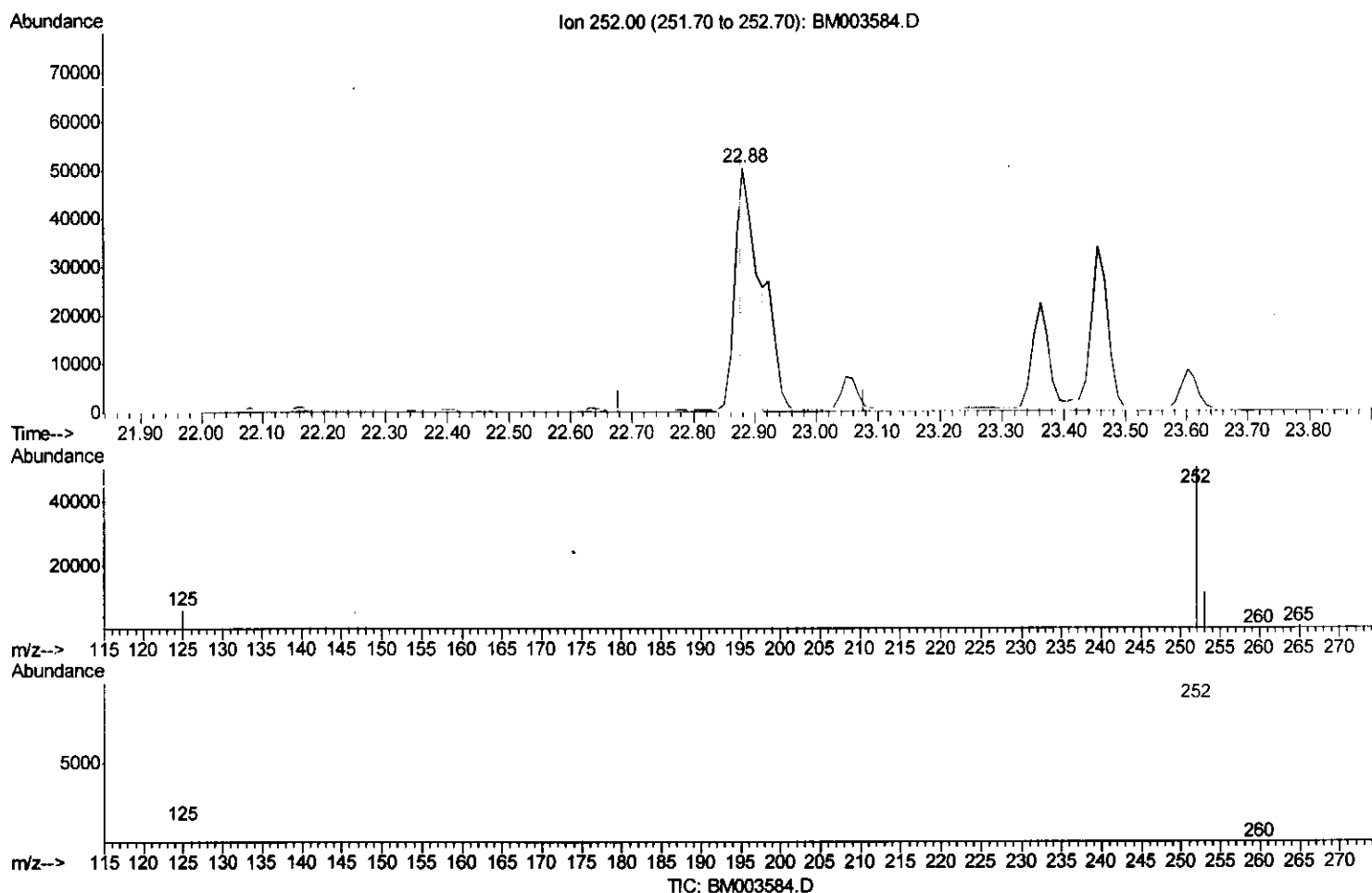
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 07:44:53 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



(23) Benzo(b)fluoranthene

22.881min (+0.003) 2.07ng/ul m

response 122321

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	23.08
125.00	14.40	12.07
0.00	0.00	0.00

U.M
 12/18/15

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

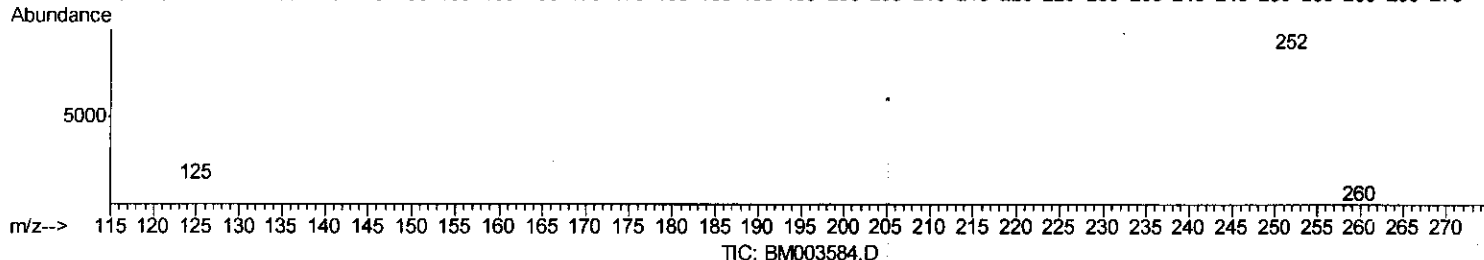
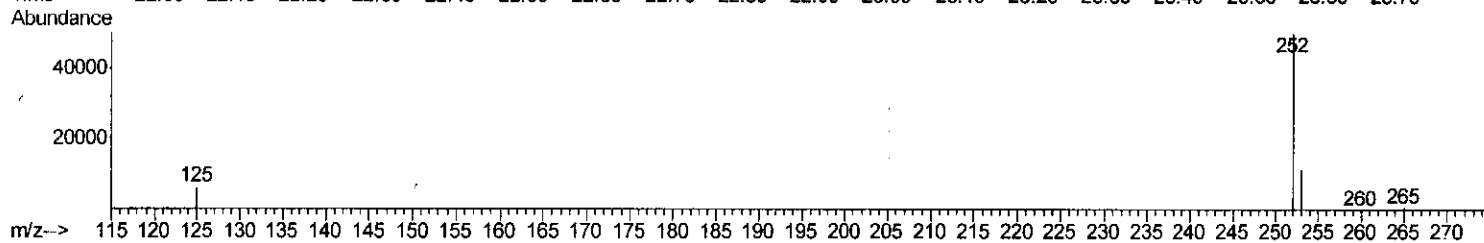
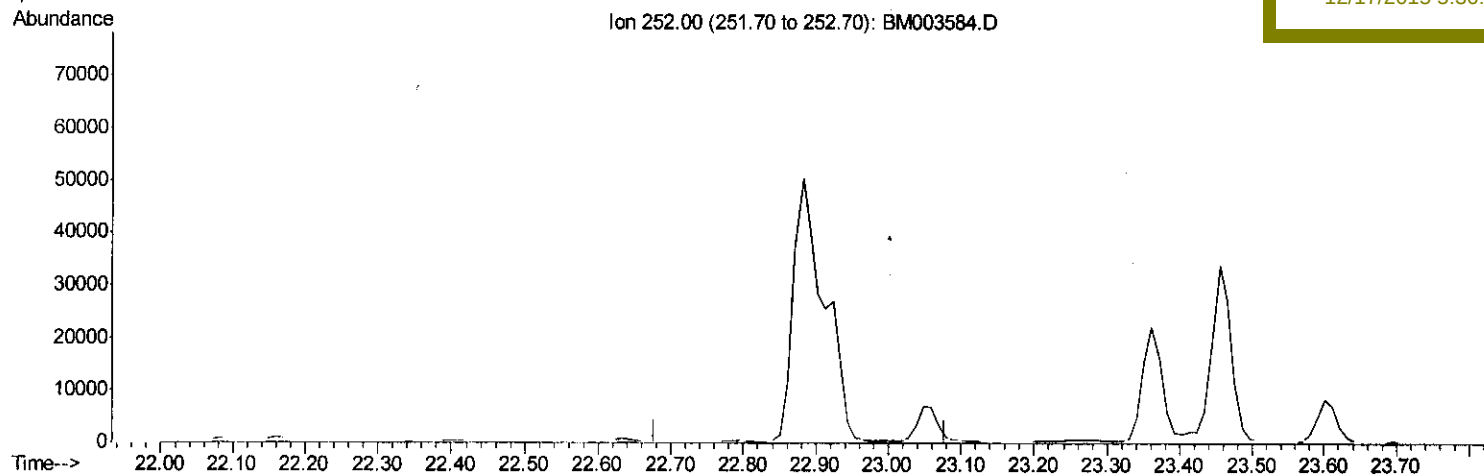
Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Quant Time: Dec 17 07:44:53 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

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Ion 252.00 (251.70 to 252.70): BM003584.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)

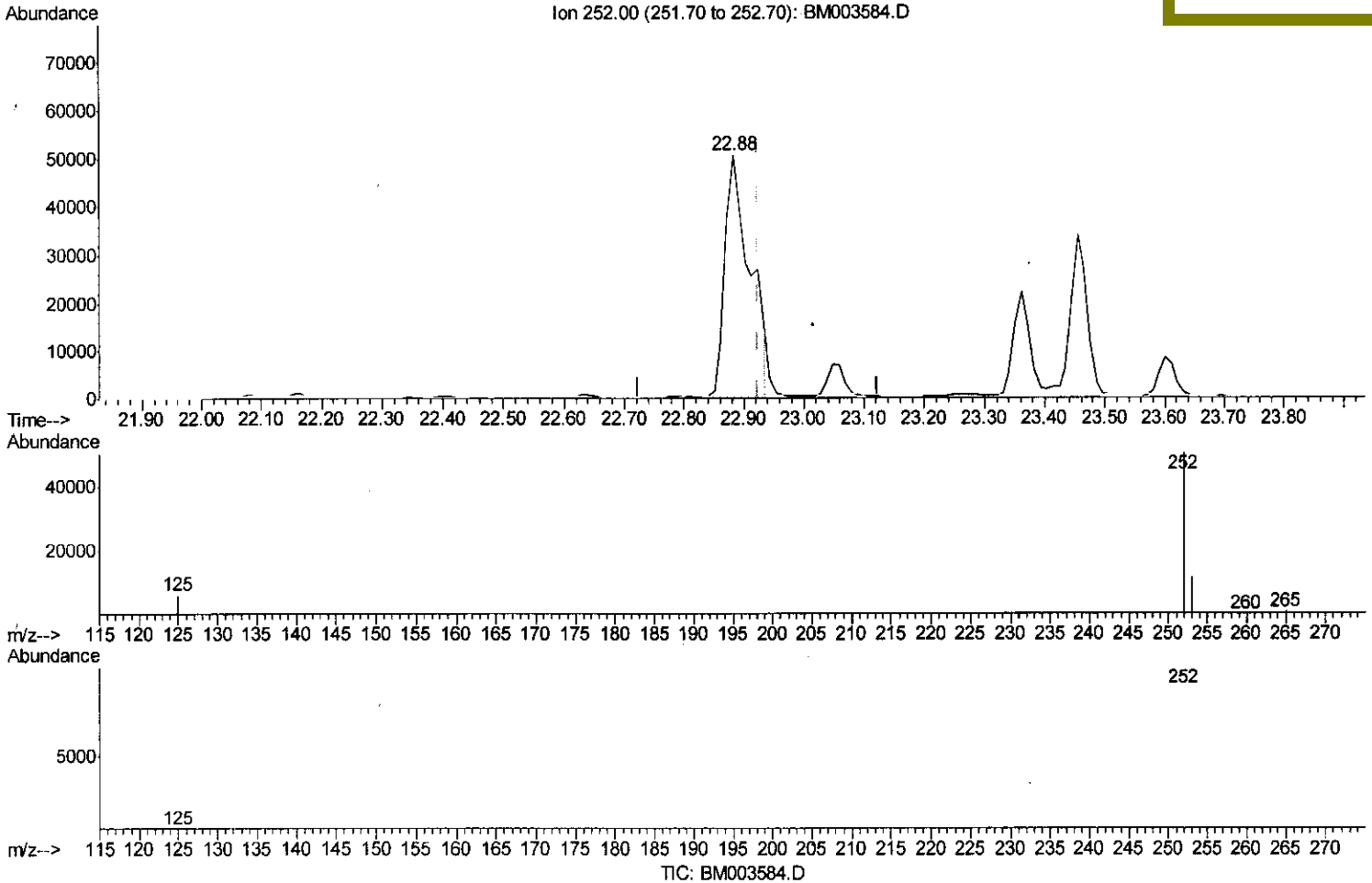
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 18 08:23:09 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



(24) Benzo(k)fluoranthene

22.881min (-0.042) 0.06ng/ul

response 146774

Ion	Exp%	Act%
252.00	100	100
253.00	24.80	23.08
125.00	13.00	12.07
0.00	0.00	0.00

Quantitation Report (Qedit)

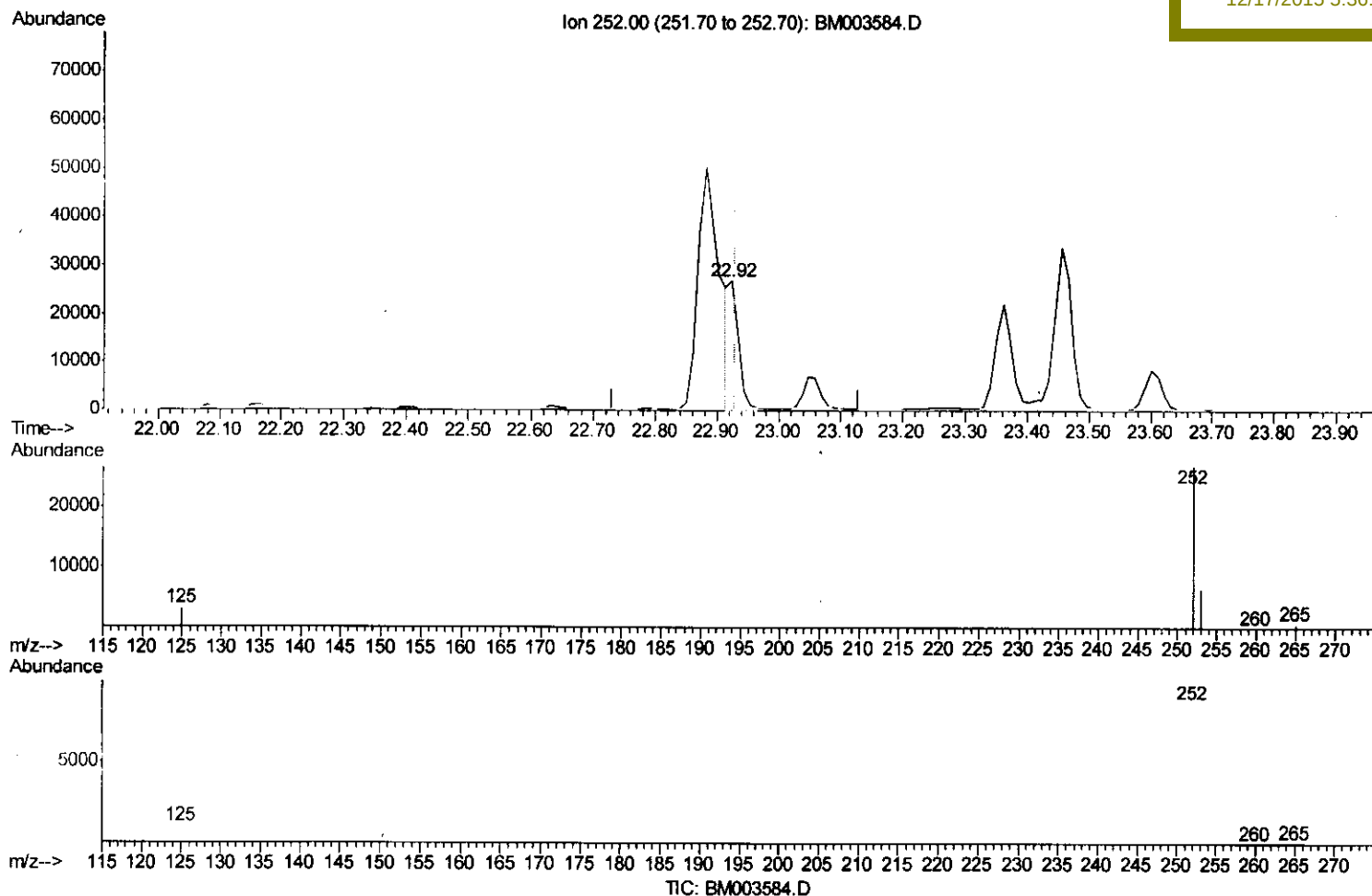
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Quant Time: Dec 17 07:44:52 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

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM



(24) Benzo(k)fluoranthene

22.923min (-0.007) 0.55ng/ul m

response 29630

Ion Exp% Act%

252.00 100 100

253.00 24.80 24.61

125.00 13.00 11.66

0.00 0.00 0.00

U.M
 12/18/15

Quantitation Report (Qedit)

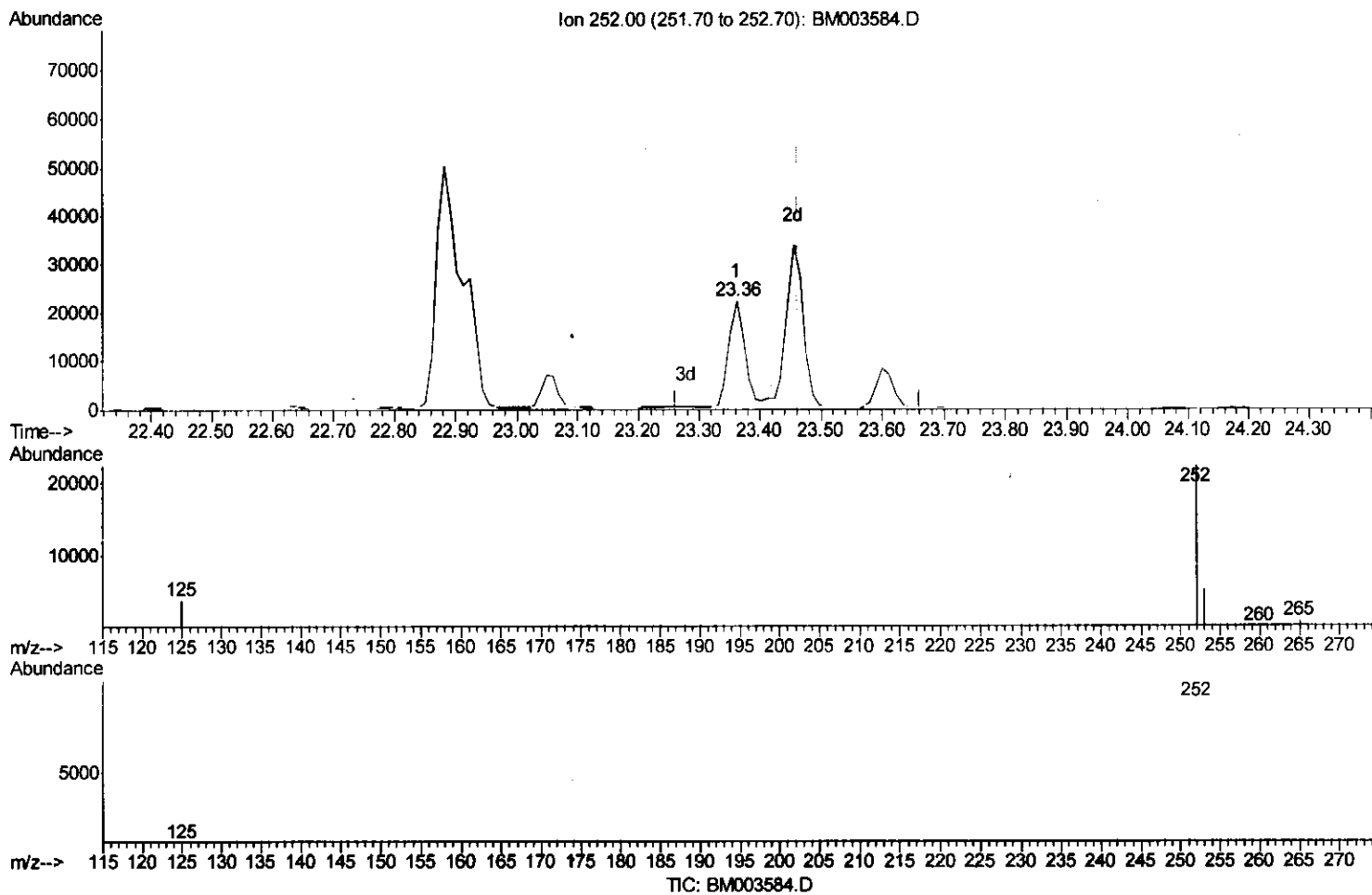
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/TZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 Client Sample Id :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 07:44:53 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



(25) Benzo(a)pyrene (C)

23.361min (-0.101) 0.84ng/ul

response 41910

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	23.20
125.00	15.90	16.95
0.00	0.00	0.00

Quantitation Report (Qedit)

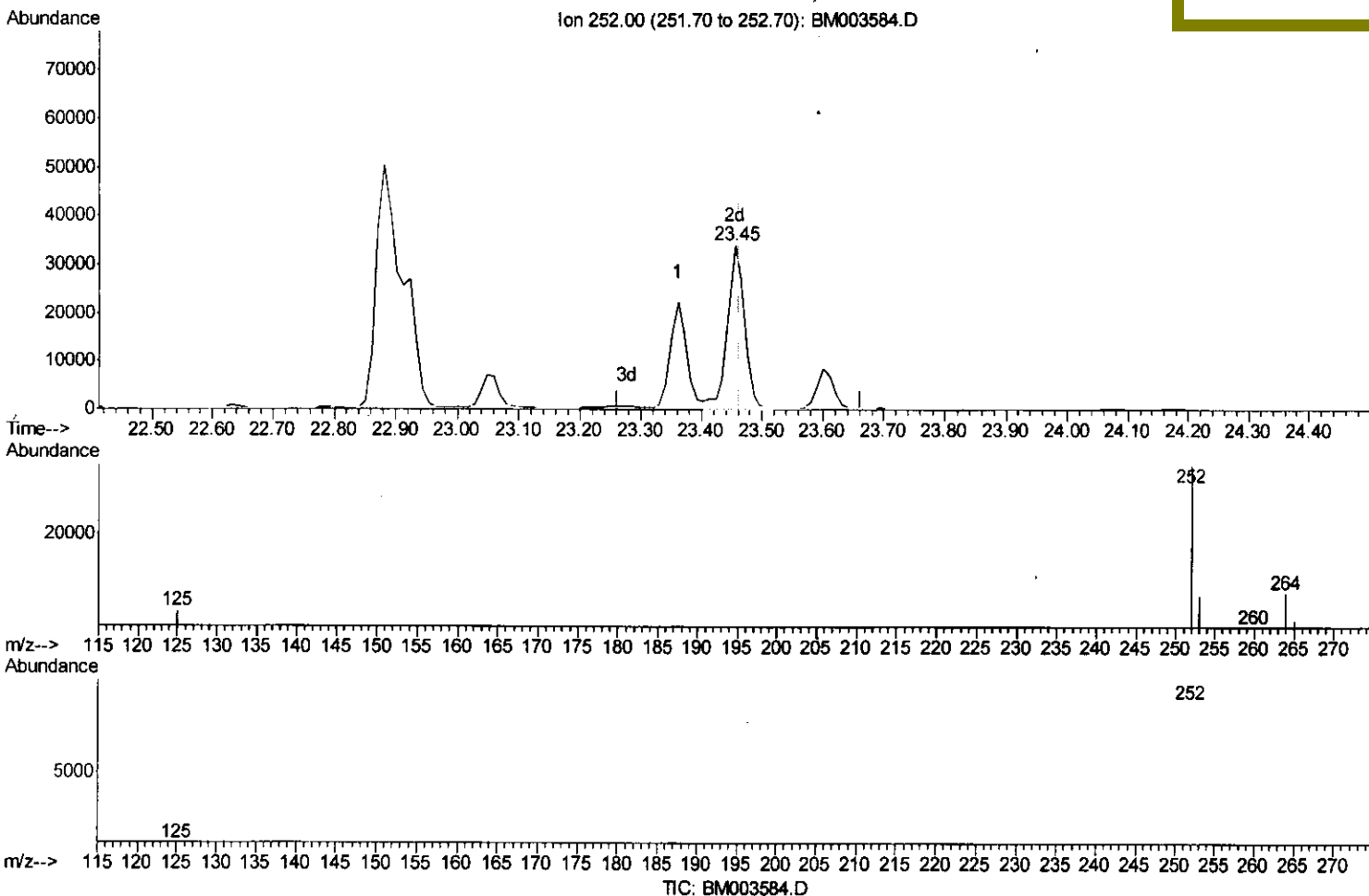
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 Client Sampled :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 07:44:53 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-SIM-BM121615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Qlast Update : Thu Dec 17 02:56:38 2015
 Response via : Initial Calibration



(25) Benzo(a)pyrene (C)

23.455min (-0.007) 1.36ng/ul m U.M

response 67999

12/18/15

Ion	Exp%	Act%
252.00	100	100
253.00	24.30	22.58
125.00	15.90	13.09
0.00	0.00	0.00

Quantitation Report (Qedit)

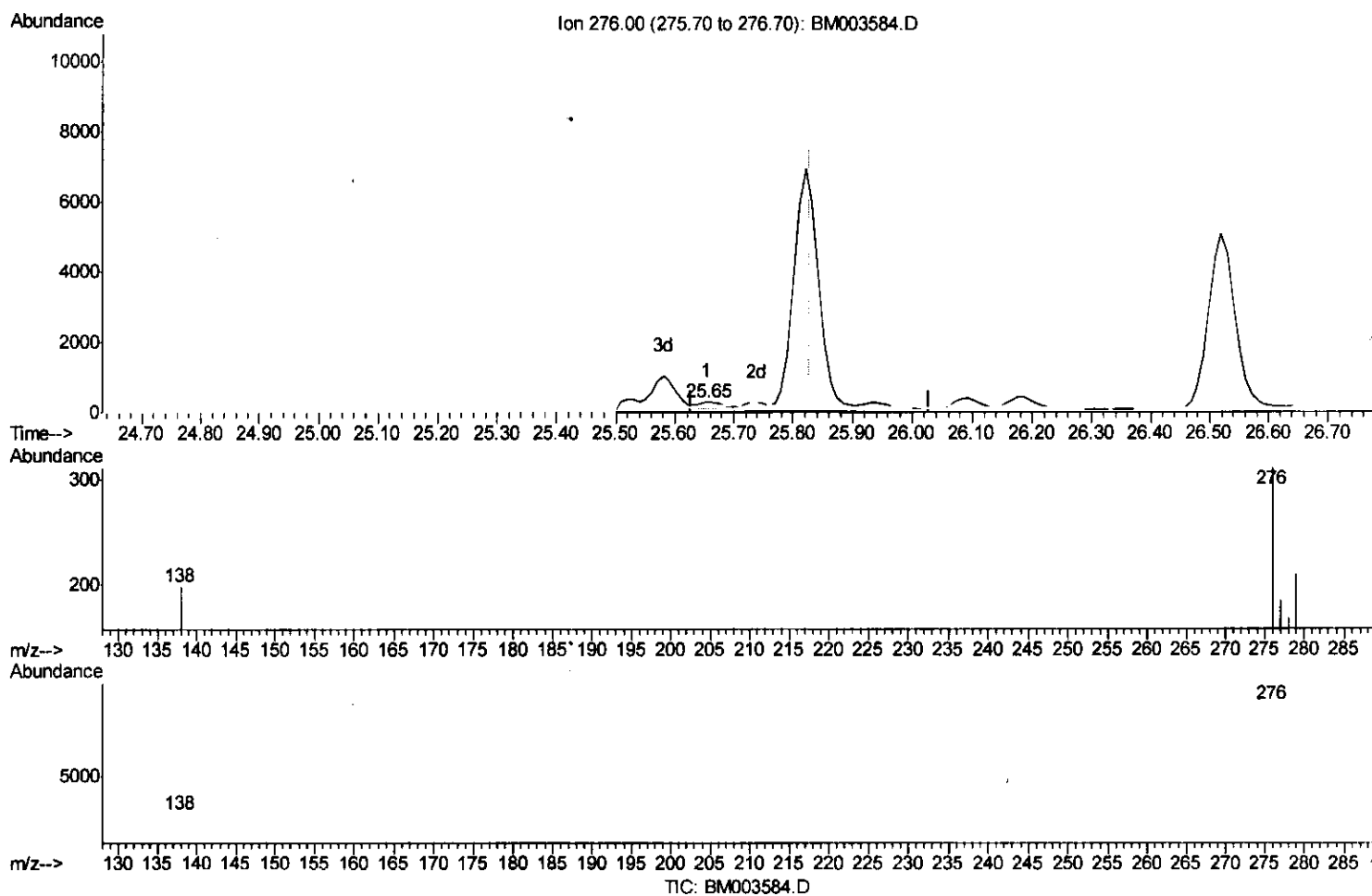
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 07:44:53 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



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

25.654min (-0.174) 0.01ng/ul

response 443

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

Quantitation Report (Qedit)

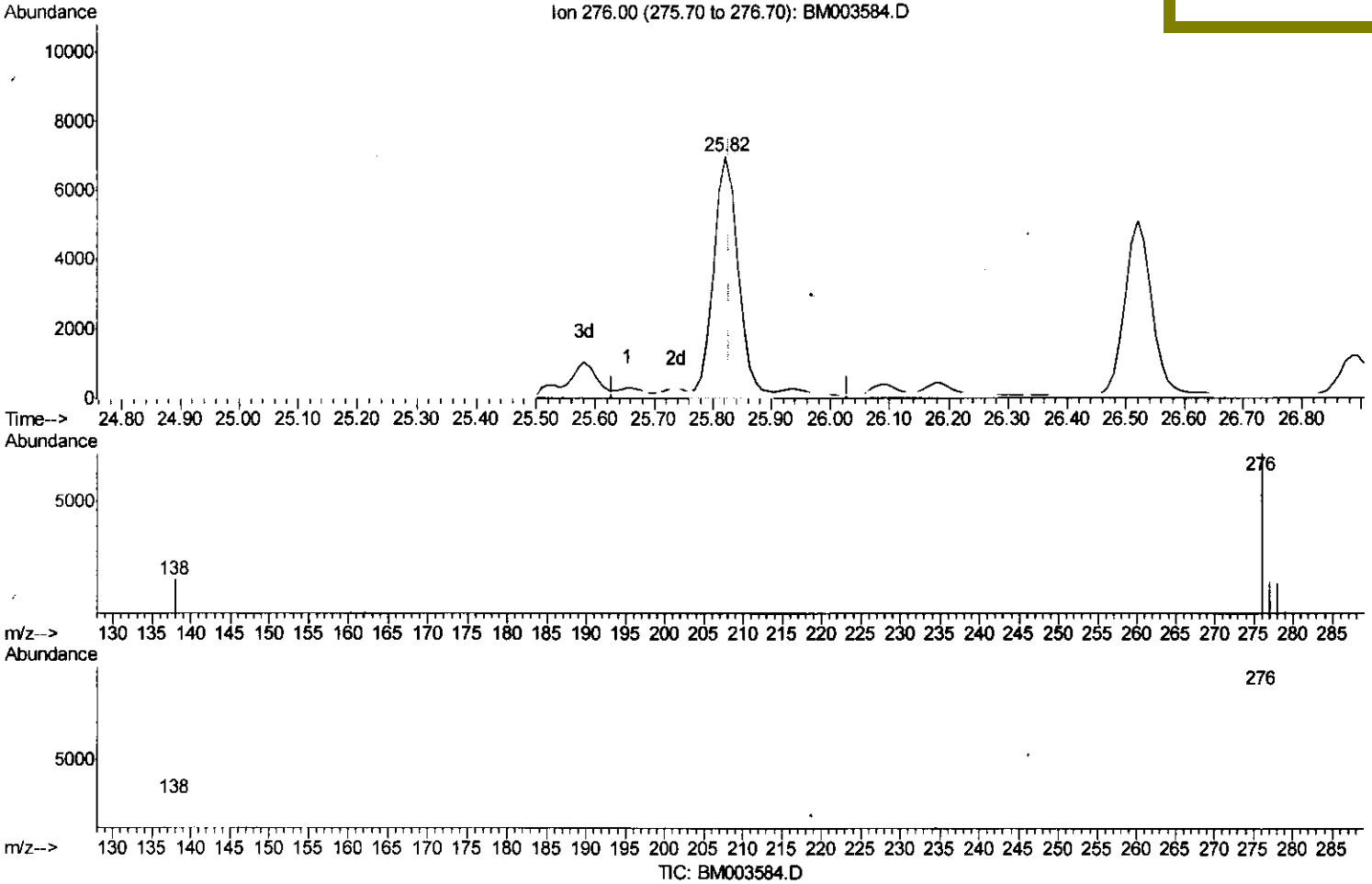
Data Path : Z:\HPCHEM1\BNA M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Quant Time: Dec 17 07:44:53 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-SIM-BM121515.M
 Quant Title : ASP RNA STANDARDS FOR 5 POINT CALIBRATION
 Quant Update : Thu Dec 17 02:36:38 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM



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

25.821min (-0.007) 0.35ng/ul m

response 20475

Ion Exp% Act%

276.00 100 100

138.00 20.40 0.00#

277.00 24.80 0.00#

0.00 0.00 0.00

U.M
 12/18/15

Quantitation Report (Qedit)

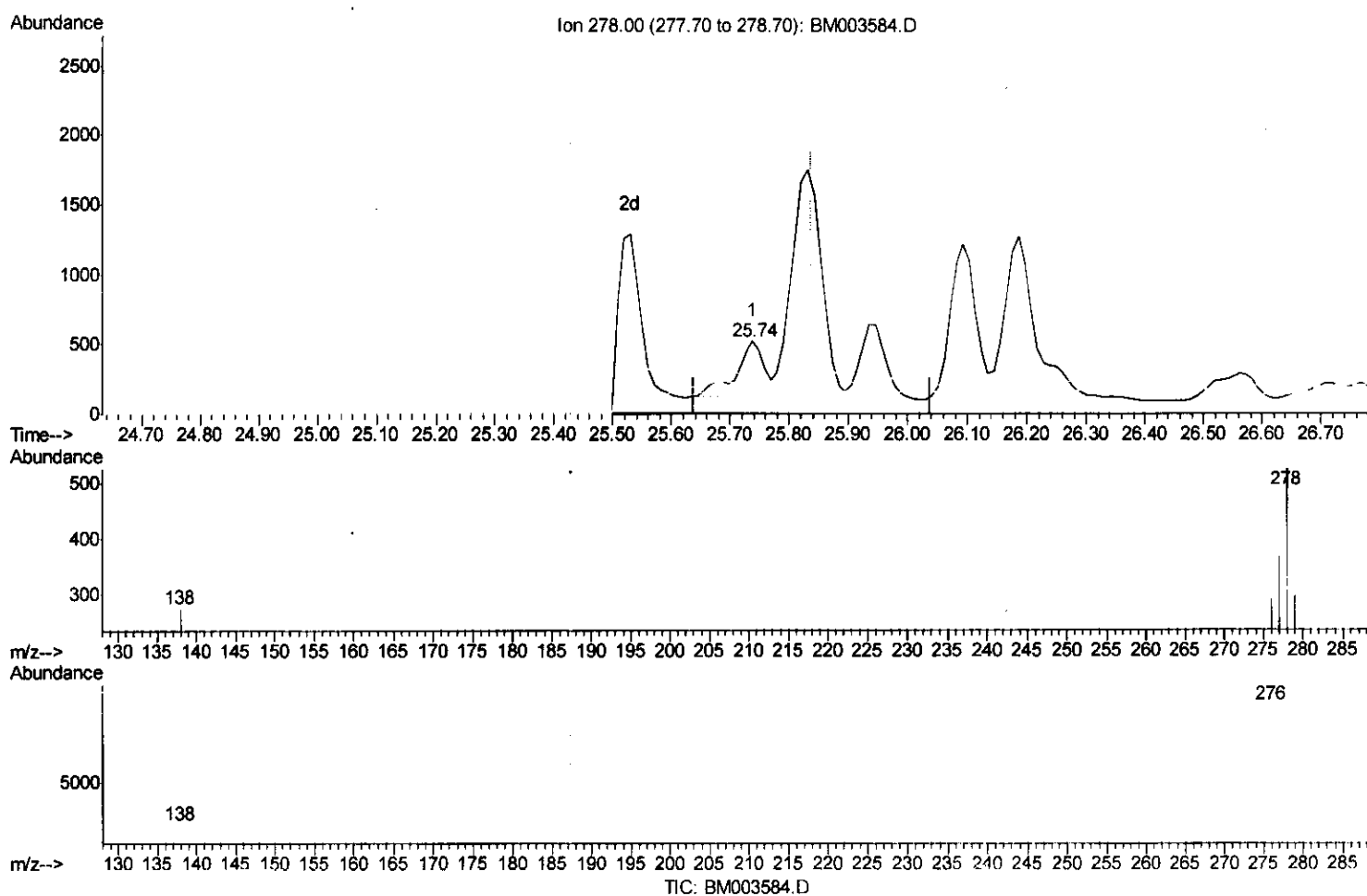
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 07:44:53 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



(27) Dibenzo(a,h)anthracene

25.738min (-0.101) 0.03ng/ul

response 1386

Ion	Exp%	Act%
278.00	100	100
139.00	20.50	44.49#
279.00	25.20	56.46#
0.00	0.00	0.00

Quantitation Report (Qedit)

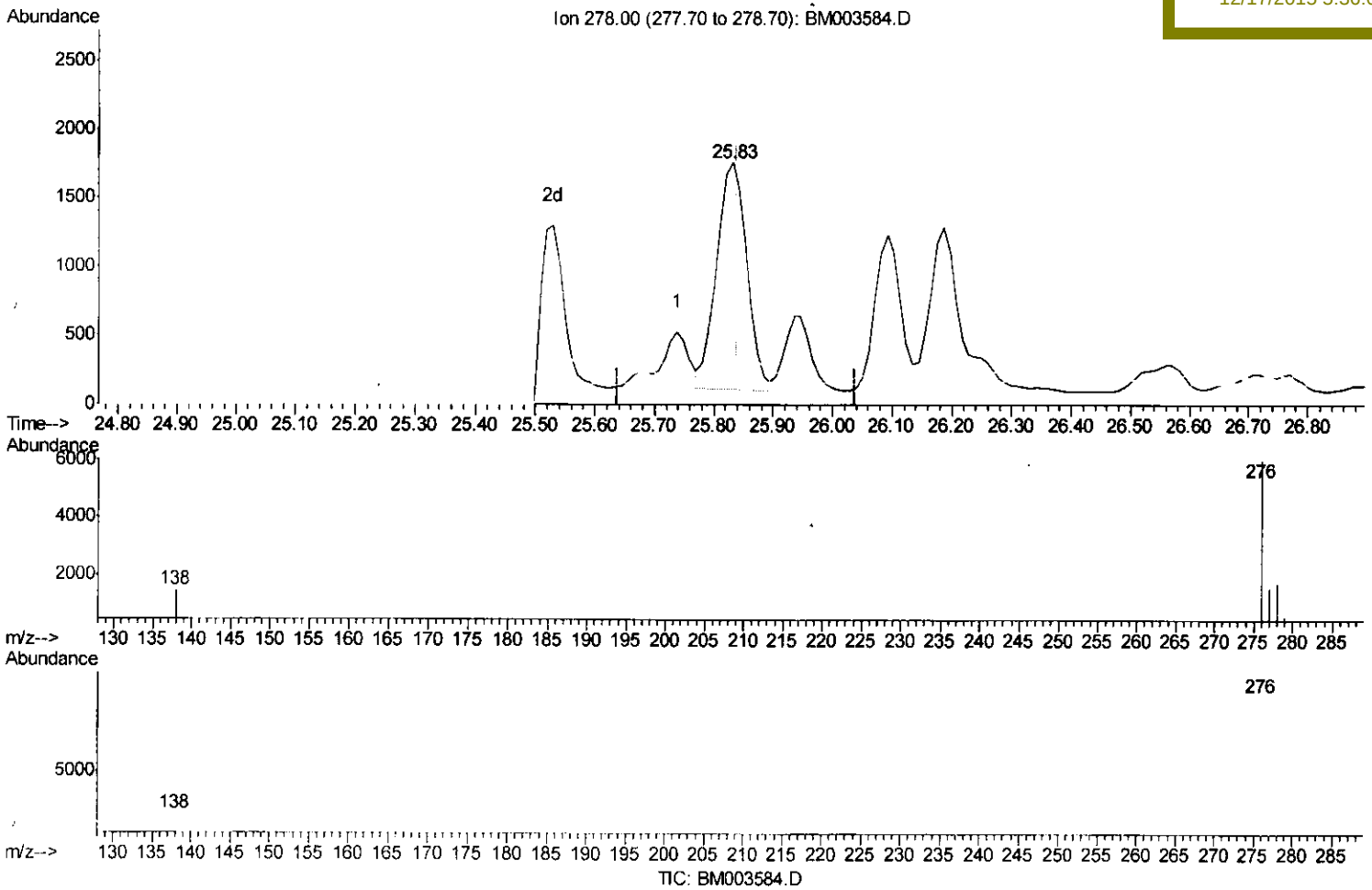
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/12
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Quant Time: Dec 17 07:44:53 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

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM



(27) Dibenzo(a,h)anthracene

25.832min (-0.007) 0.12ng/ul m

response 5745

Ion Exp% Act%

278.00 100 100

139.00 20.50 27.96#

279.00 25.20 34.23#

0.00 0.00 0.00

U.M
 12/18/15

Quantitation Report (Qedit)

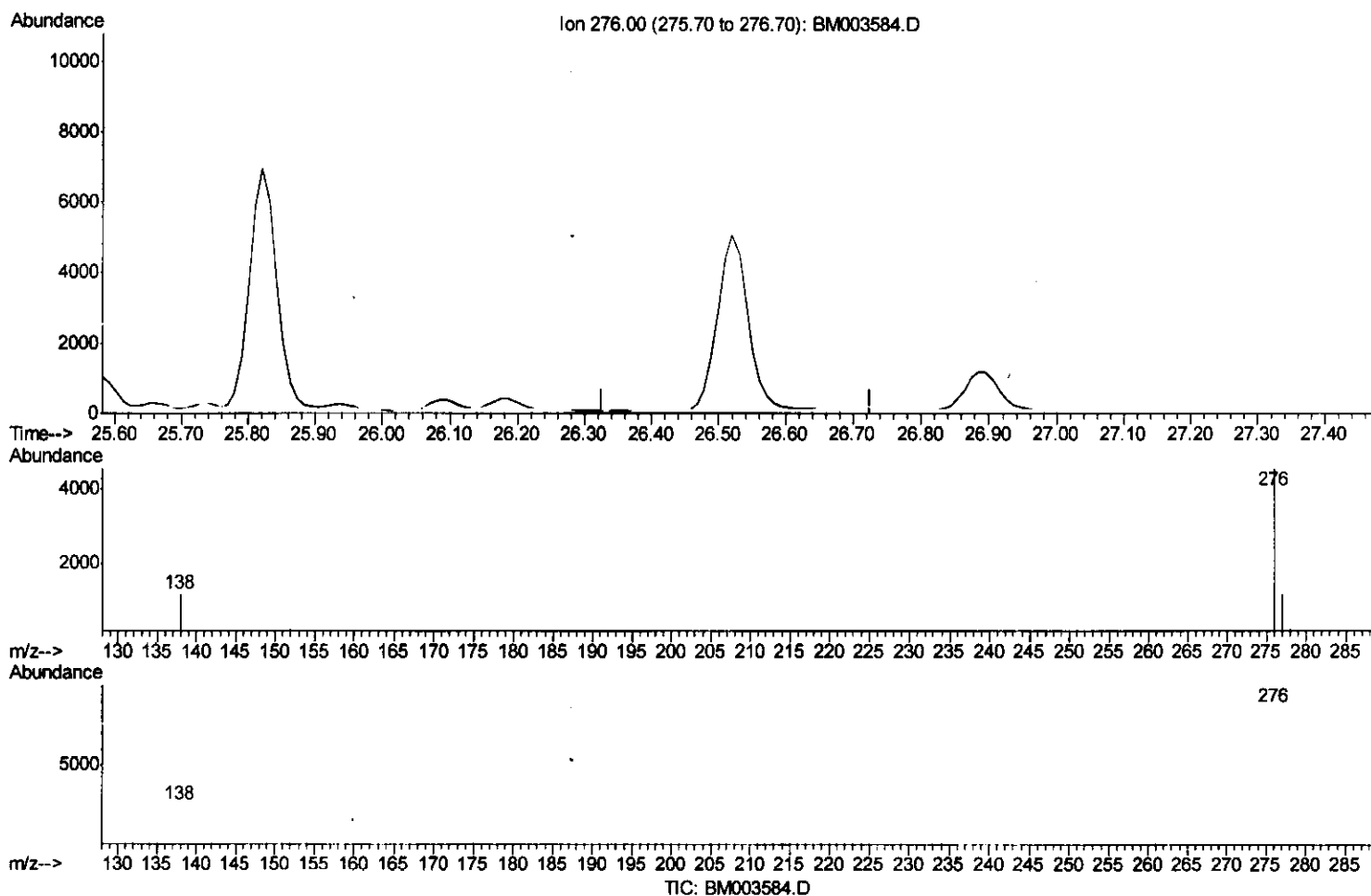
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 07:44:53 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



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

26.526min (-26.526) 0.00ng/ul

response 0

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

Quantitation Report (Qedit)

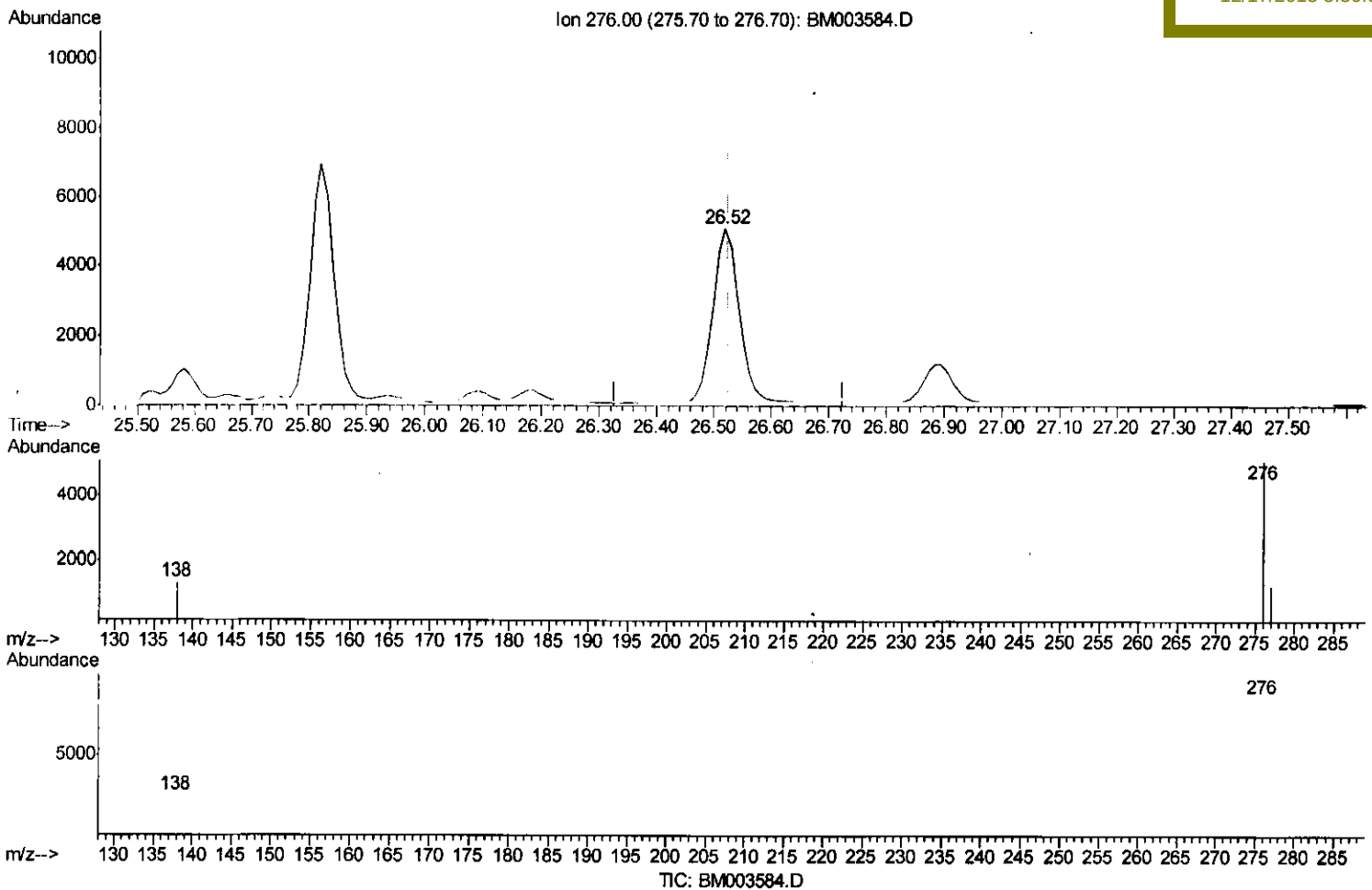
Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Quant Time: Dec 17 07:44:53 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



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

26.520min (-0.007) 0.32ng/ul m

response 15976

Ion	Exp%	Act%
276.00	100	100
277.00	23.60	25.11
138.00	28.10	26.47
0.00	0.00	0.00

U.M
 12/18/15

Data Path : Z:\HPCHEM1\BNA_M\Data\BM121615\
 Data File : BM003584.D
 Acq On : 16 Dec 2015 19:06
 Operator : UM/IZ
 Sample : G4767-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9N30

Quant Time: Dec 17 07:46:36 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

Manual Integrations
 APPROVED

MMdadoda
 12/17/2015 5:36:06 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.71	152	3836	0.40	ng/ul	0.00
4) Naphthalene-d8	10.50	136	15556	0.40	ng/ul	0.00
8) Acenaphthene-d10	14.37	164	9689	0.40	ng/ul	0.00
12) Phenanthrene-d10	17.11	188	16995m	0.40	ng/ul	0.00
18) Chrysene-d12	21.31	240	16606	0.40	ng/ul	0.00
22) Perylene-d12	23.56	264	17308m	0.40	ng/ul	0.00

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System Monitoring Compounds

2) 1,4-Dioxane-d8	3.17	96	15728	9.59	ng/uL	0.00
6) 2-Methylnaphthalene-d10	12.09	152	4593	0.25	ng/ul	-0.01
16) Fluoranthene-d10	19.15	212	9502	0.26	ng/ul	0.00

Target Compounds

						Qvalue
5) Naphthalene	10.55	128	103240	2.95	ng/ul	99
7) 2-Methylnaphthalene	12.16	142	133459	5.67	ng/ul	99
9) Acenaphthylene	14.07	152	36207	0.98	ng/ul#	89
10) Acenaphthene	14.42	153	704725	23.62	ng/ul	89
11) Fluorene	15.41	166	691133	20.90	ng/ul	87
14) Phenanthrene	17.14	178	2689482m	61.36	ng/ul	87
15) Anthracene	17.23	178	230853	6.09	ng/ul	97
17) Fluoranthene	19.17	202	1543659	32.43	ng/ul	96
19) Pyrene	19.54	202	1062389	23.70	ng/ul	98
20) Benzo(a)anthracene	21.29	228	243453	6.00	ng/ul#	92
21) Chrysene	21.34	228	179284	3.86	ng/ul	94
23) Benzo(b)fluoranthene	22.88	252	122321m	2.07	ng/ul	
24) Benzo(k)fluoranthene	22.92	252	29630m	0.55	ng/ul	
25) Benzo(a)pyrene	23.45	252	67999m	1.36	ng/ul	
26) Indeno(1,2,3-cd)pyrene	25.82	276	20475m	0.35	ng/ul	
27) Dibenzo(a,h)anthracene	25.83	278	5745m	0.12	ng/ul	
28) Benzo(g,h,i)perylene	26.52	276	15976m	0.32	ng/ul	

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