

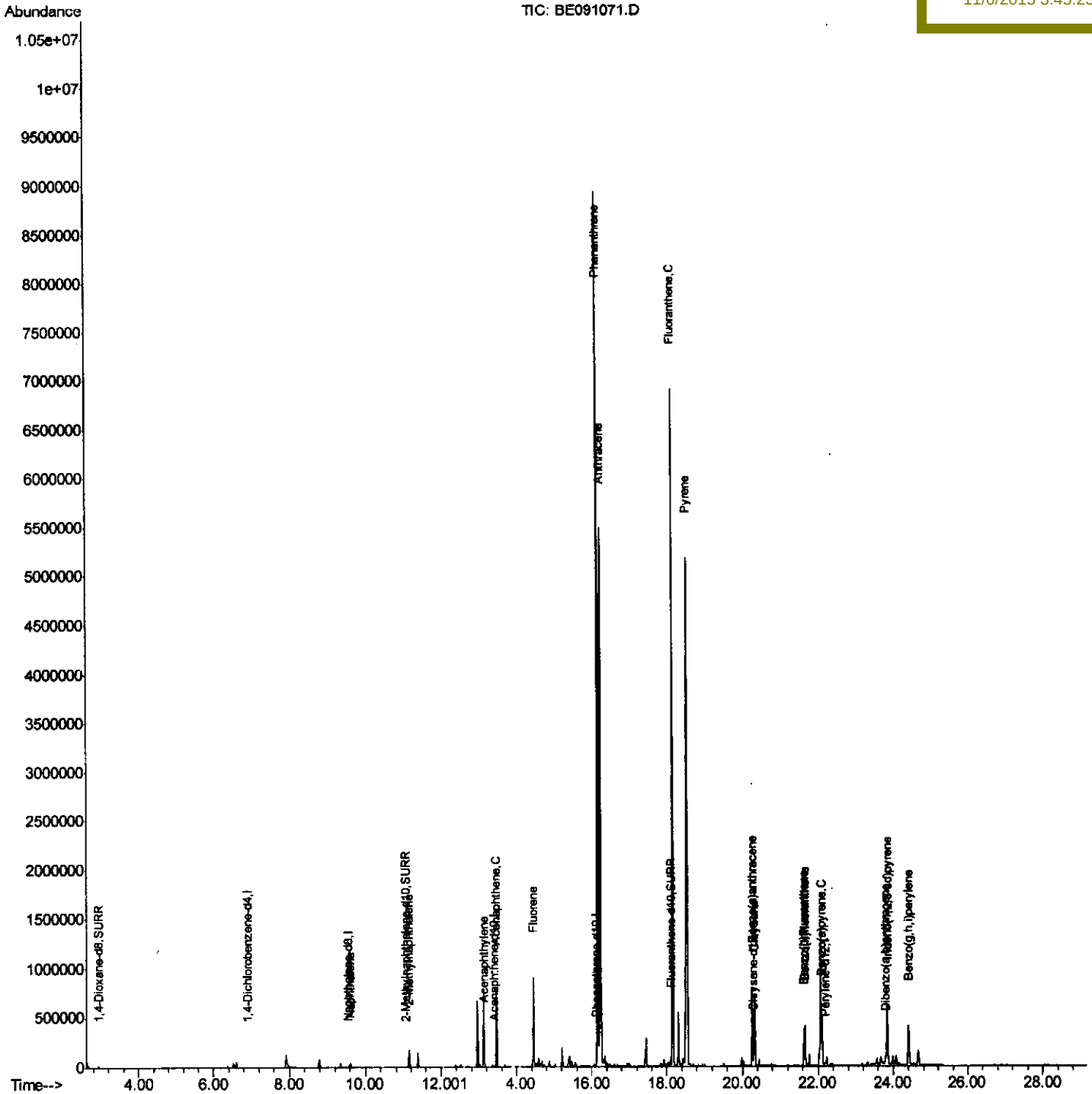
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
Data File : BE091071.D
Acq On : 5 Nov 2015 17:49
Operator : UM/NP
Sample : G4273-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
C0AP4

Quant Time: Nov 06 06:31:43 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 06 05:41:57 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

Mmdadoda
11/6/2015 3:45:23 PM



Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
Data File : BE091071.D
Acq On : 5 Nov 2015 17:49
Operator : UM/NP
Sample : G4273-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
C0AP4

Quant Time: Nov 06 06:31:43 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 06 05:41:57 2015
Response via : Initial Calibration

Manual Integrations
APPROVED

Mmdadoda
11/6/2015 3:45:23 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	3276	0.40	ng/ul	0.00
4) Naphthalene-d8	9.57	136	17590	0.40	ng/ul	0.00
8) Acenaphthene-d10	13.41	164	10857	0.40	ng/ul	0.00
12) Phenanthrene-d10	16.14	188	26131m →	0.40	ng/ul	0.00
18) Chrysene-d12	20.29	240	31275	0.40	ng/ul	0.00
22) Perylene-d12	22.19	264	40367m →	0.40	ng/ul	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	2.92	96	16576	7.03	ng/uL	-0.03
6) 2-Methylnaphthalene-d10	11.07	152	5624	0.23	ng/ul	0.00
16) Fluoranthene-d10	18.13	212	18185	0.25	ng/ul	0.00
Target Compounds						
					Ovalue	
5) Naphthalene	9.62	128	62855	1.45	ng/ul	99
7) 2-Methylnaphthalene	11.14	142	123271	4.36	ng/ul	99
9) Acenaphthylene	13.14	152	44287	0.82	ng/ul	98
10) Acenaphthene	13.46	153	431910	11.63	ng/ul	92
11) Fluorene	14.45	166	556604	11.67	ng/ul	89
14) Phenanthrene	16.17	178	8801988m →	29.17	ng/ul	
15) Anthracene	16.26	178	6094232	22.21	ng/ul	96
17) Fluoranthene	18.15	202	7466016m →	21.14	ng/ul	
19) Pyrene	18.54	202	5298883	14.91	ng/ul#	79
20) Benzo(a)anthracene	20.26	228	616301	7.67	ng/ul	97
21) Chrysene	20.32	228	598842	6.47	ng/ul	98
23) Benzo(b)fluoranthene	21.63	252	379480	3.01	ng/ul	93
24) Benzo(k)fluoranthene	21.66	252	362957m →	2.81	ng/ul	
25) Benzo(a)pyrene	22.10	252	428790m →	3.69	ng/ul	
26) Indeno(1,2,3-cd)pyrene	23.84	276	836942m →	1.71	ng/ul	
27) Dibenzo(a,h)anthracene	23.79	278	61157m →	0.52	ng/ul	
28) Benzo(a,h,i)perylene	24.41	276	661131m →	1.29	ng/ul	

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

Quantitation Report (Qedit)

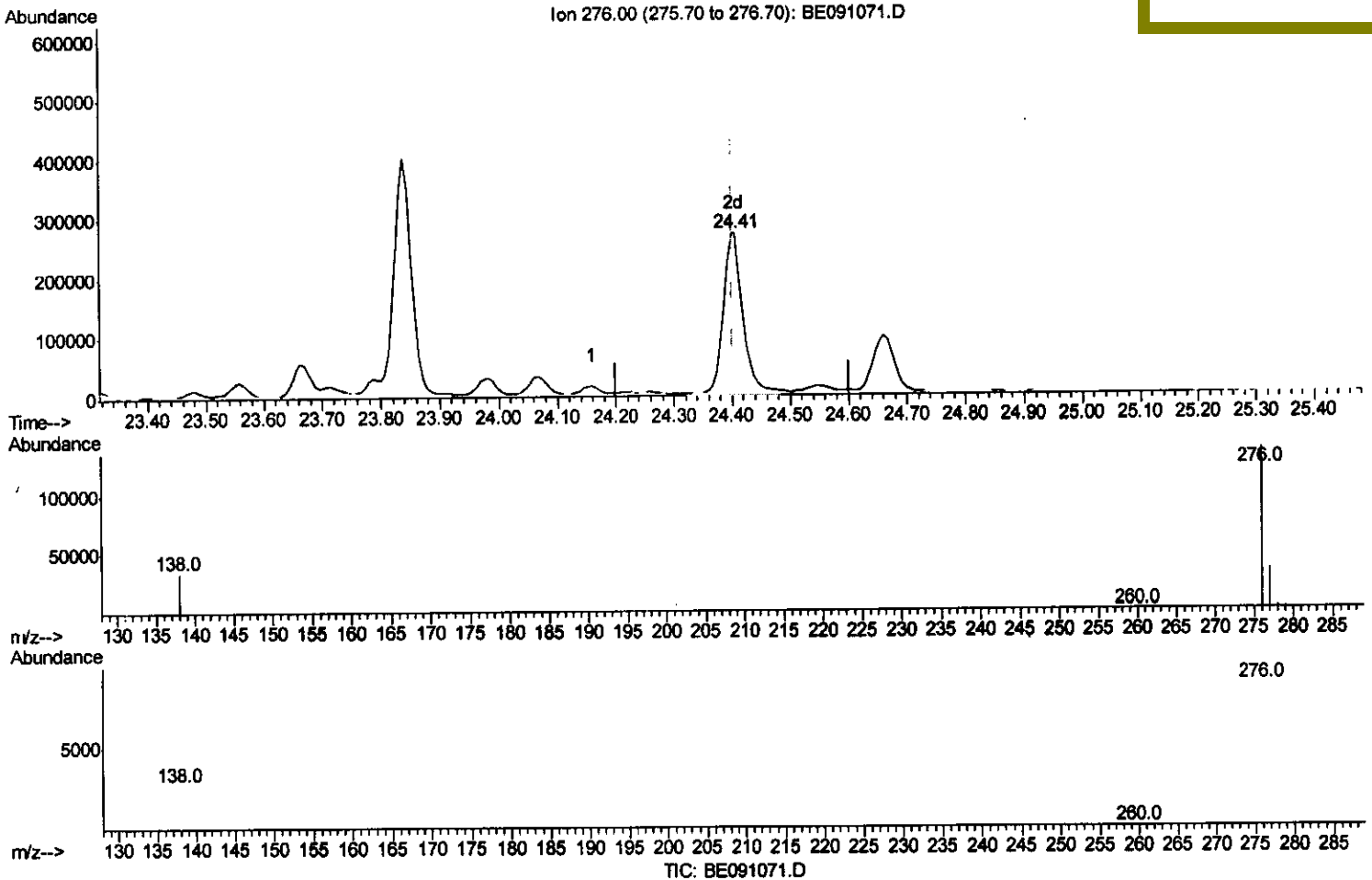
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 06:29:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



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

24.406min (+0.005) 1.29ng/ul m

response 661131

Ion	Exp%	Act%
276.00	100	100
277.00	26.60	24.99
138.00	31.90	24.99#
0.00	0.00	0.00

U.M
11/06/15

Quantitation Report (Qedit)

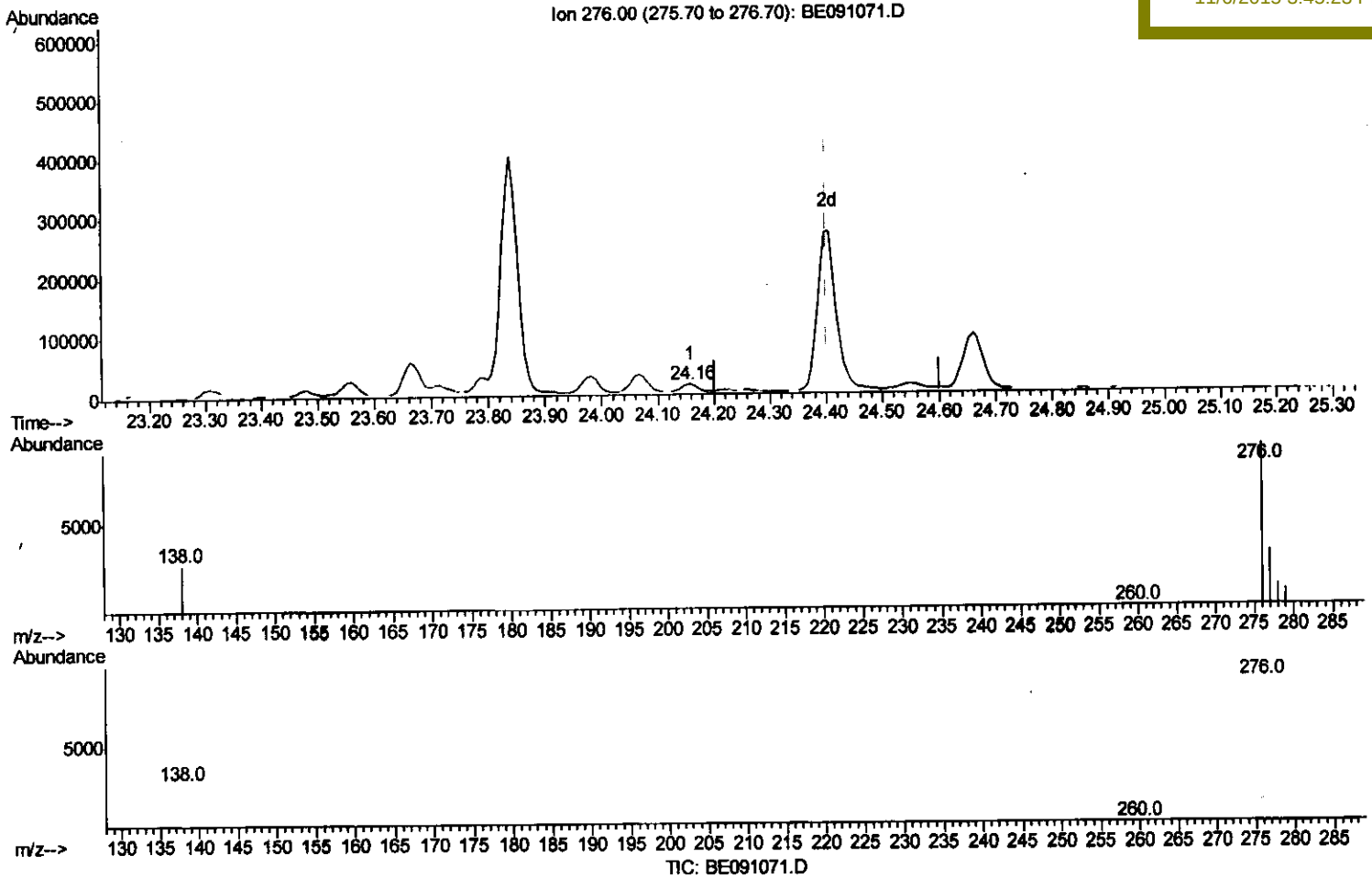
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 06:29:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



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

24.158min (-0.243) 0.05ng/ul

response 27237

Ion	Exp%	Act%
276.00	100	100
277.00	26.60	34.94#
138.00	31.90	30.42
0.00	0.00	0.00

Quantitation Report (Qedit)

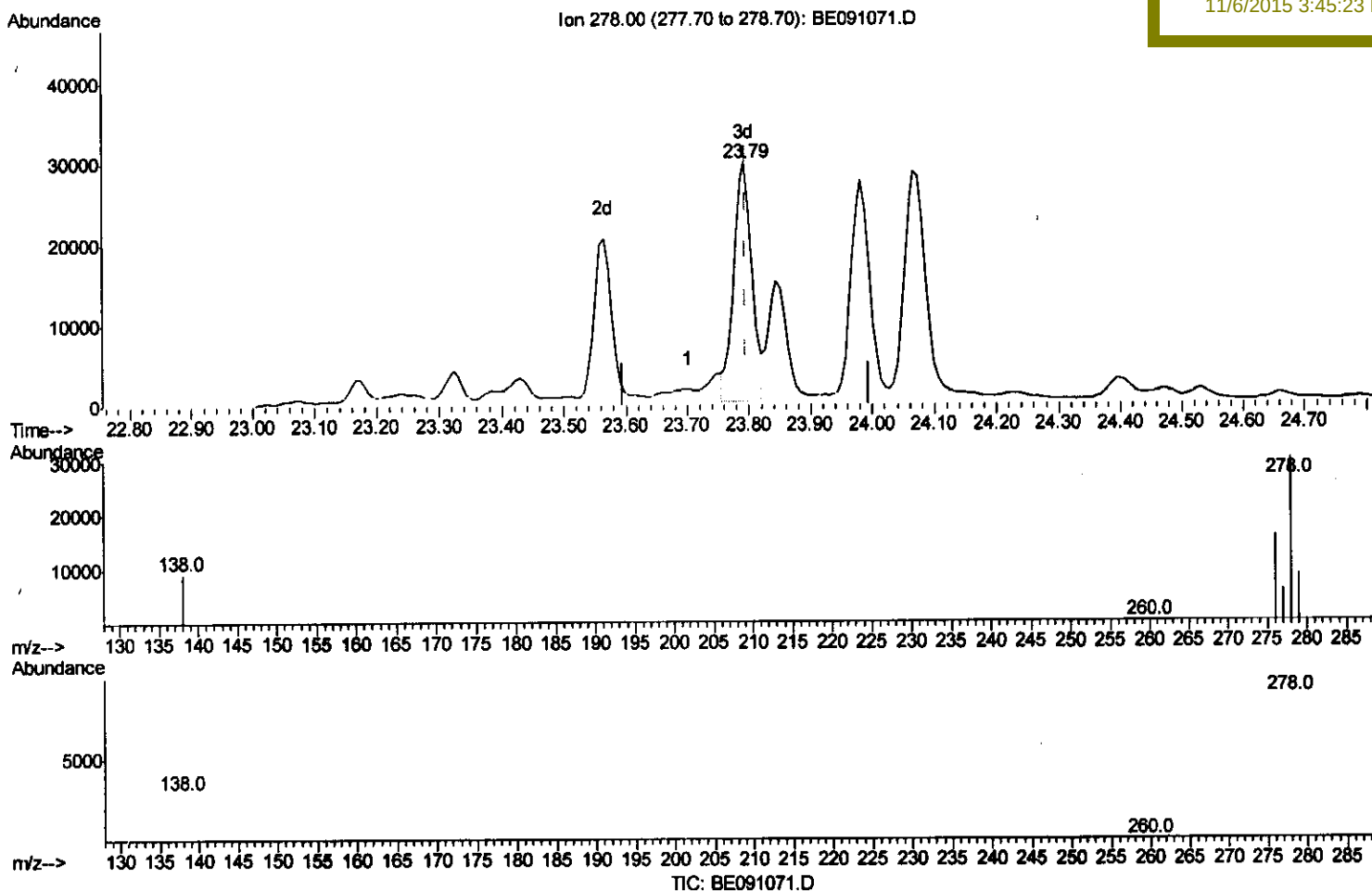
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
Data File : BE091071.D
Acq On : 5 Nov 2015 17:49
Operator : UM/NP
Sample : G4273-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 06 06:29:56 2015
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 06 05:41:57 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
C0AP4

Manual Integrations
APPROVED

Mmdadoda
11/6/2015 3:45:23 PM



(27) Dibenzo(a,h)anthracene

23.793min (-0.002) 0.52ng/ul m

response 61157

Ion	Exp%	Act%
278.00	100	100
139.00	27.10	0.00#
279.00	27.40	28.16
0.00	0.00	0.00

U.M
11/06/15

Quantitation Report (Qedit)

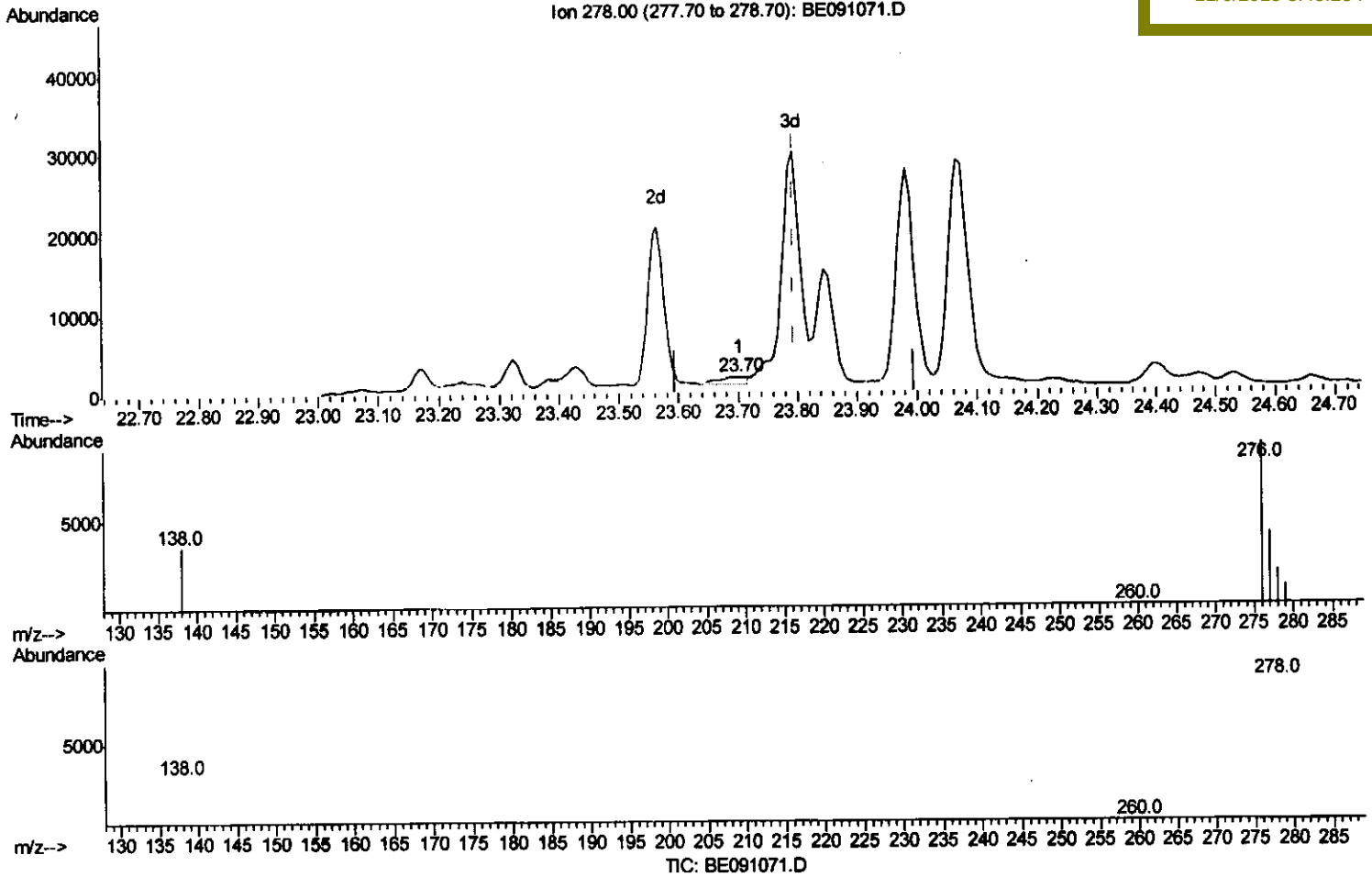
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 06:29:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(27) Dibenzo(a,h)anthracene

23.702min (-0.093) 0.03ng/ul

response 3058

Ion	Exp%	Act%
278.00	100	100
139.00	27.10	0.00%
279.00	27.40	61.86%
0.00	0.00	0.00

Quantitation Report (Qedit)

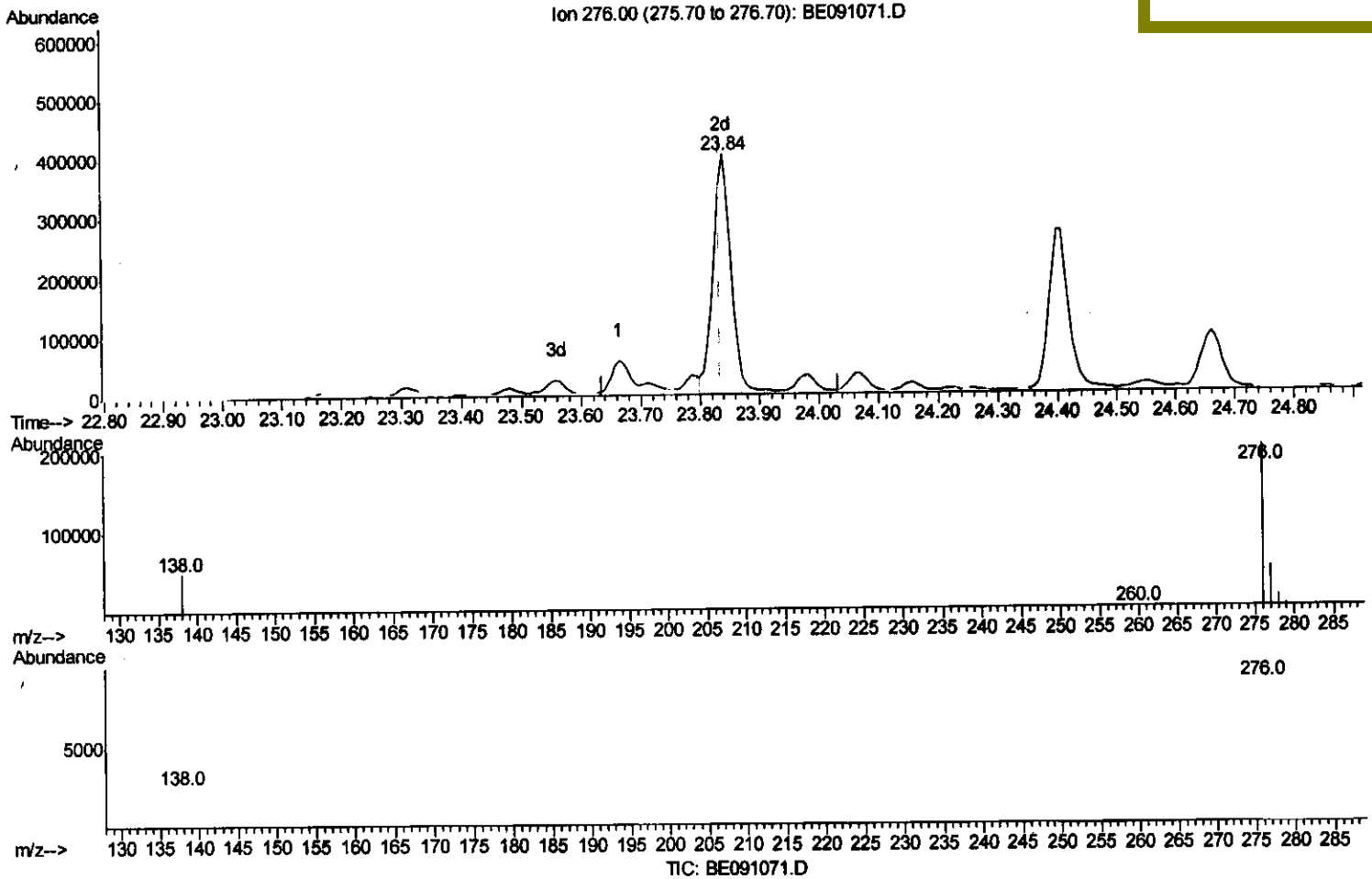
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 06:29:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



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

23.838min (+0.005) 1.71ng/ul m

response 836942

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	5.01#
277.00	24.10	5.23#
0.00	0.00	0.00

UM
 11/06/15

Quantitation Report (Qedit)

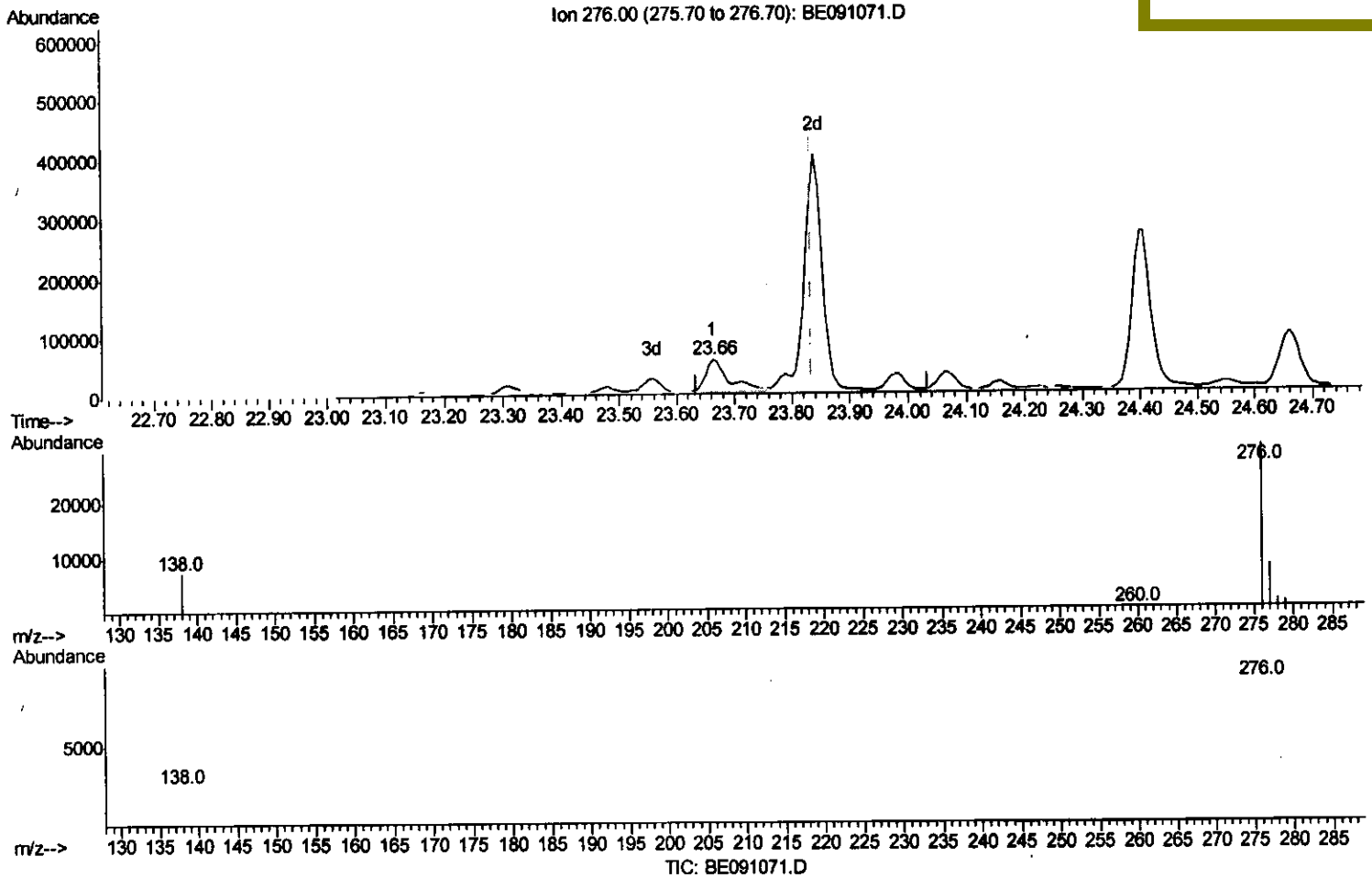
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 06:29:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



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

23.662min (-0.171) 0.33ng/ul

response 163576

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	25.63#
277.00	24.10	26.75
0.00	0.00	0.00

Quantitation Report (Qedit)

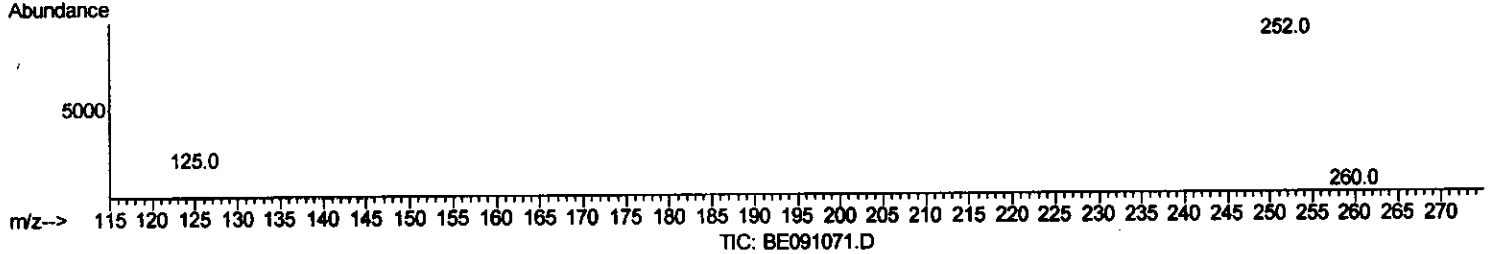
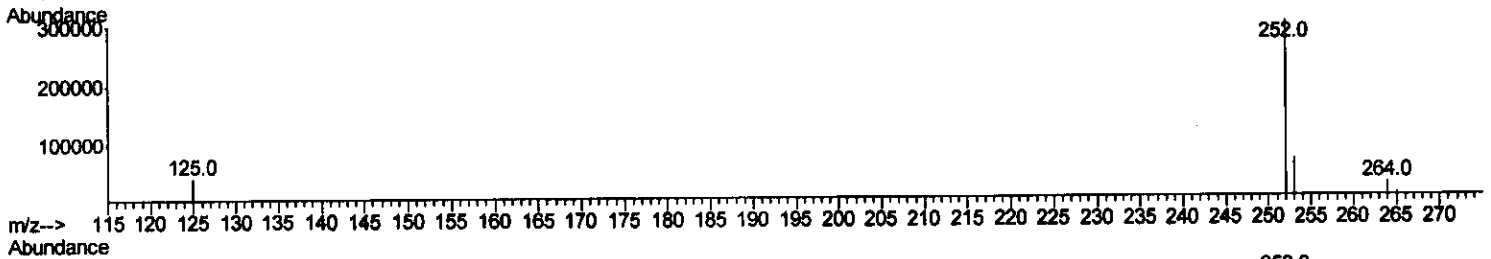
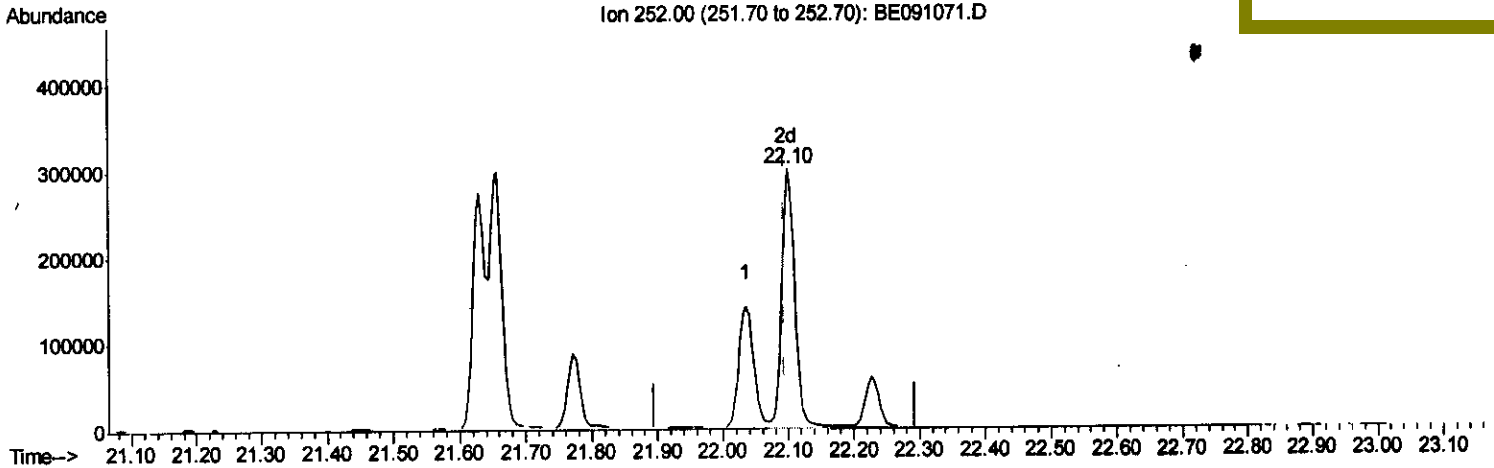
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampled :
 C0AP4

Quant Time: Nov 06 06:29:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(25) Benzo(a)pyrene (C)

22.099min (+0.005) 3.69ng/ul m

response 428790

Ion	Exp%	Act%
252.00	100	100
253.00	27.30	22.30
125.00	18.10	14.44#
0.00	0.00	0.00

U.M
 11/06/15

Quantitation Report (Qedit)

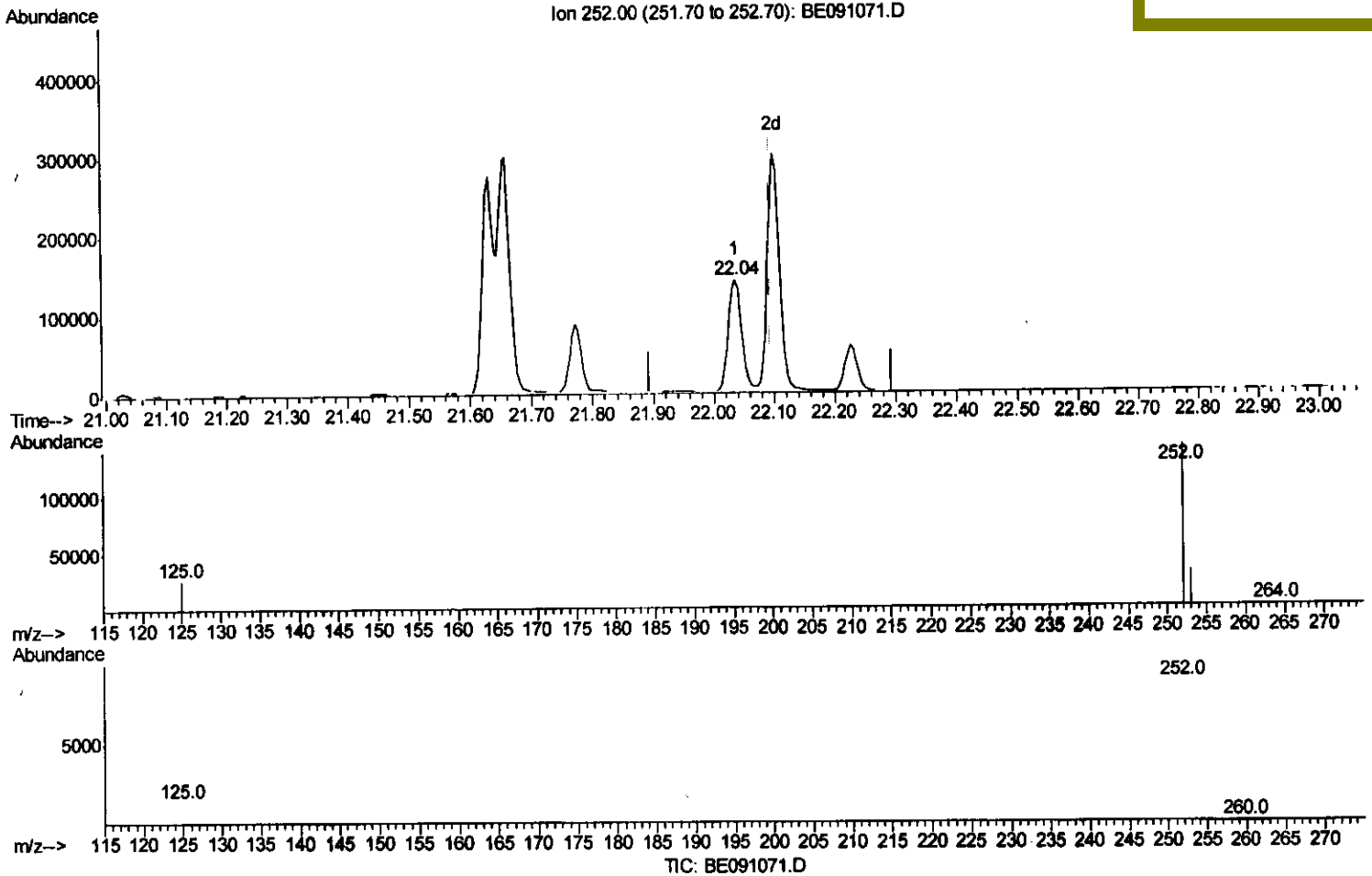
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 06:29:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(25) Benzo(a)pyrene (C)

22.035min (-0.059) 1.89ng/ul

response 219779

Ion	Exp%	Act%
252.00	100	100
253.00	27.30	22.67
125.00	18.10	19.15
0.00	0.00	0.00

Quantitation Report (Qedit)

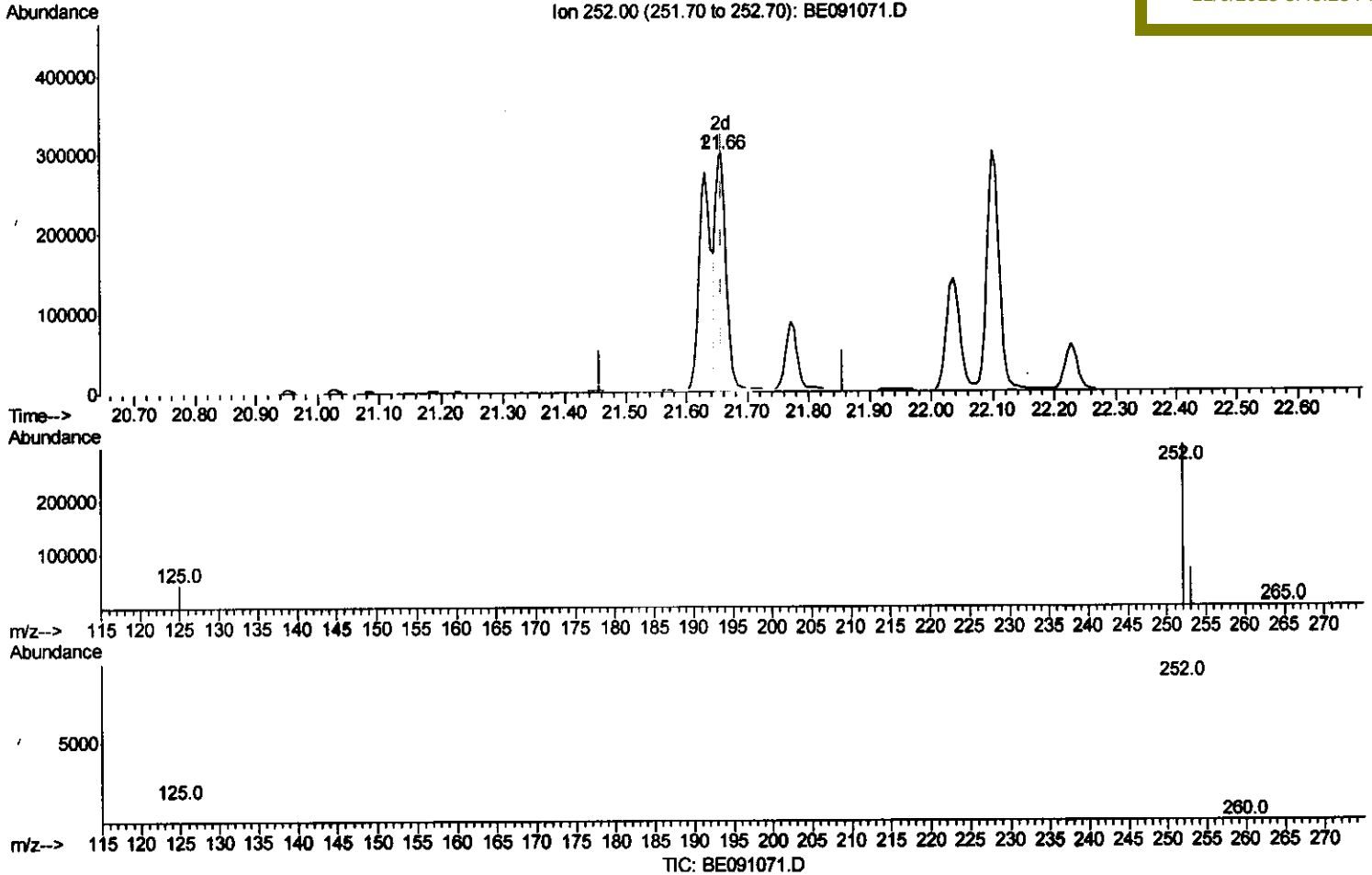
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampled :
 C0AP4

Quant Time: Nov 06 06:29:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(24) Benzo(k)fluoranthene

21.657min (+0.000) 2.81ng/ul m

response 362957

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	23.21
125.00	15.30	14.22
0.00	0.00	0.00

U.M
 11/06/15

Quantitation Report (Qedit)

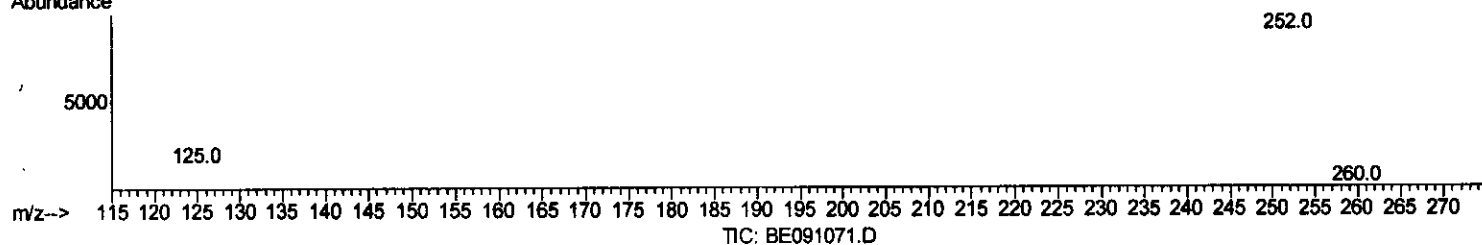
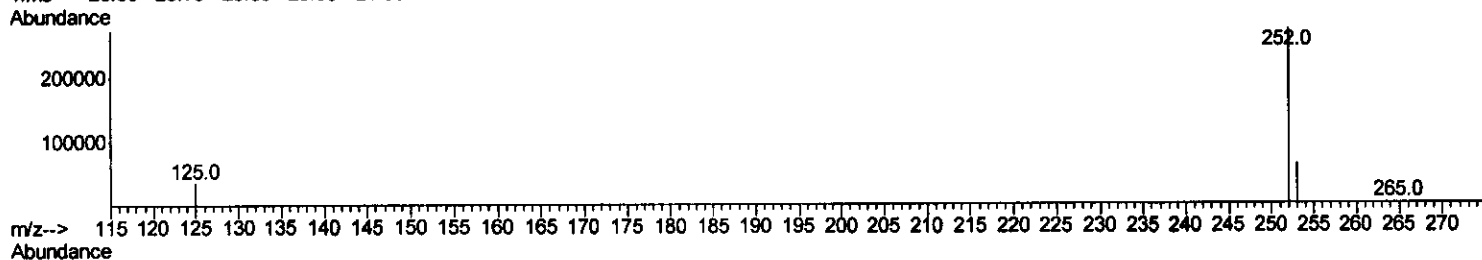
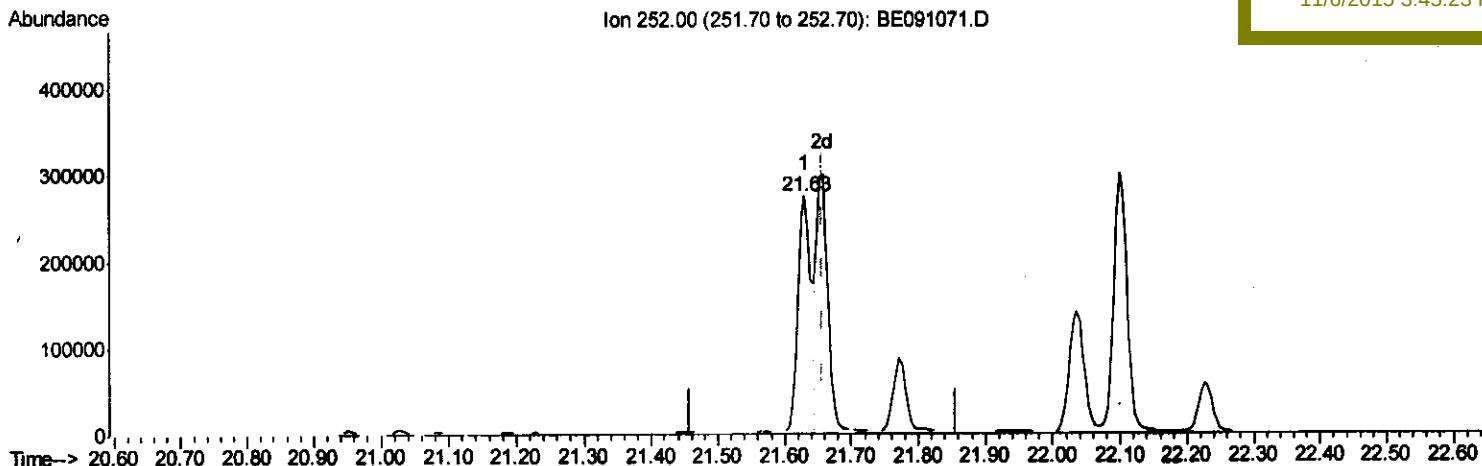
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 06:29:56 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(24) Benzo(k)fluoranthene

21.630min (-0.027) 2.93ng/ul

response 379480

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	22.55
125.00	15.30	12.86
0.00	0.00	0.00

Quantitation Report (Qedit)

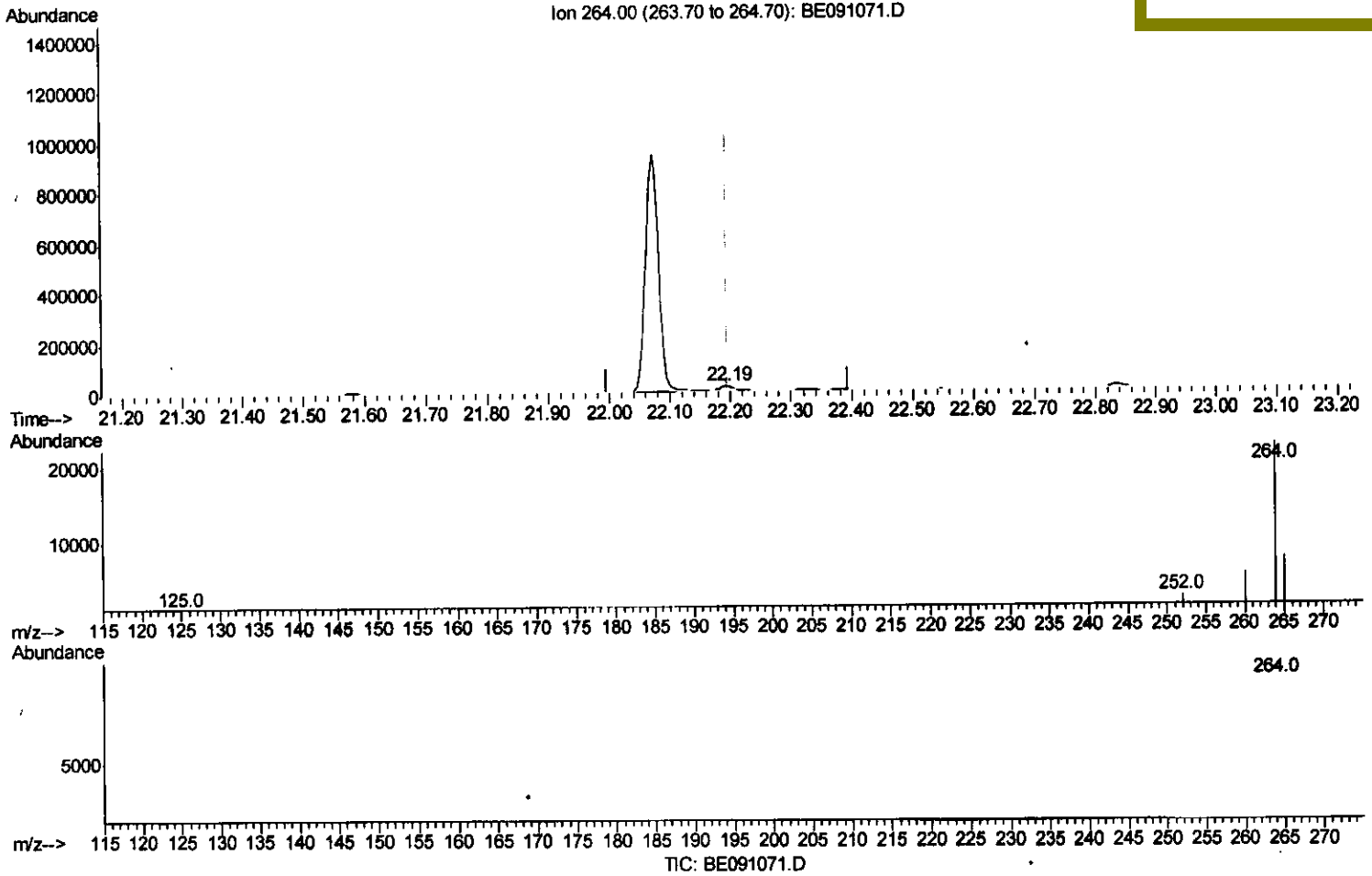
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 05:44:41 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(22) Perylene-d12 (I)

22.195min (+0.000) 0.40ng/ul m

response 40367

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	24.57
265.00	34.70	33.42
0.00	0.00	0.00

U.M
11/06/15

Quantitation Report (Qedit)

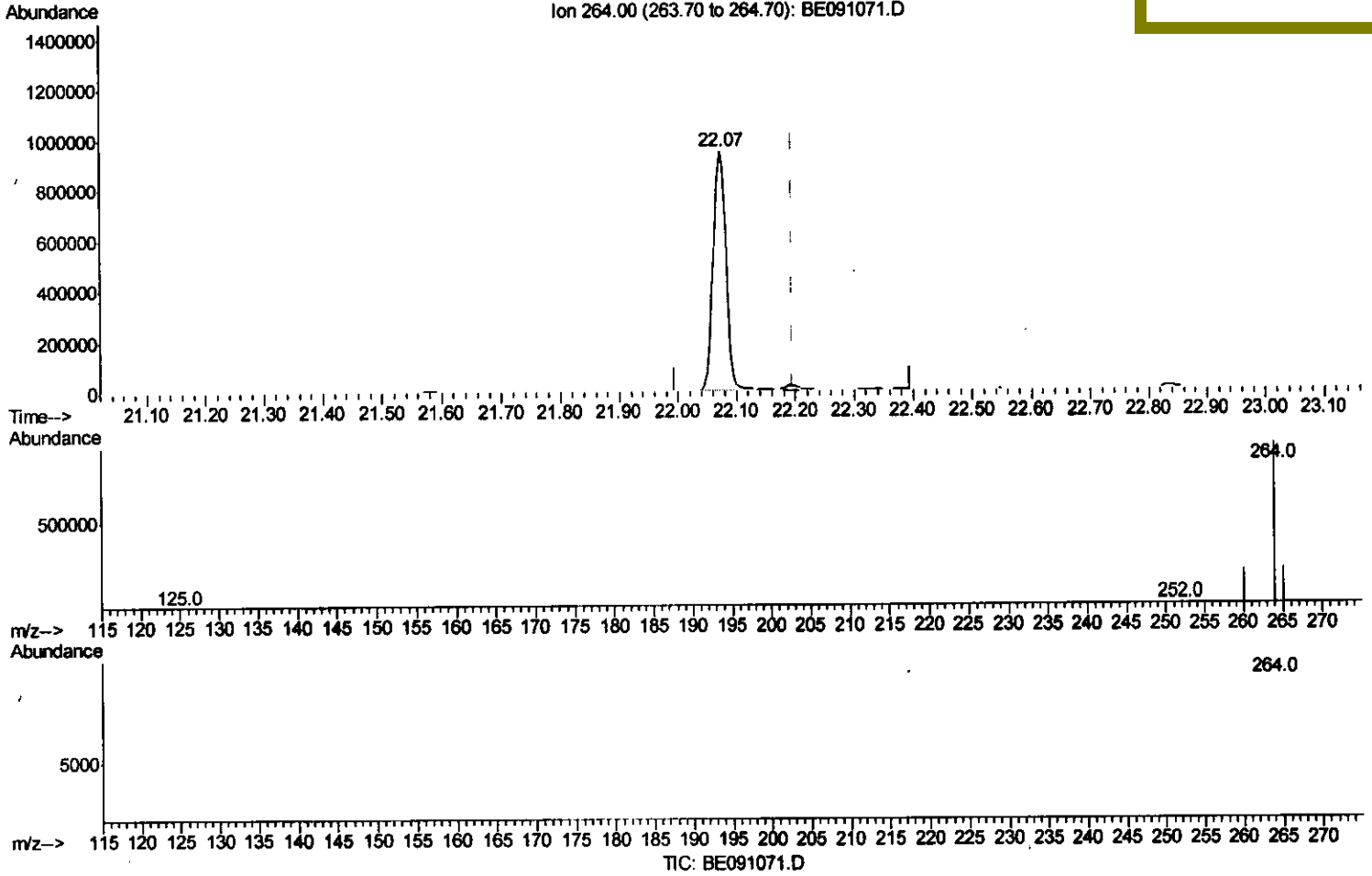
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAP4

Quant Time: Nov 06 05:44:41 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(22) Perylene-d12 (I)

22.072min (-0.123) 0.40ng/ul

response 1434427

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	21.34#
265.00	34.70	22.28#
0.00	0.00	0.00

Quantitation Report (Qedit)

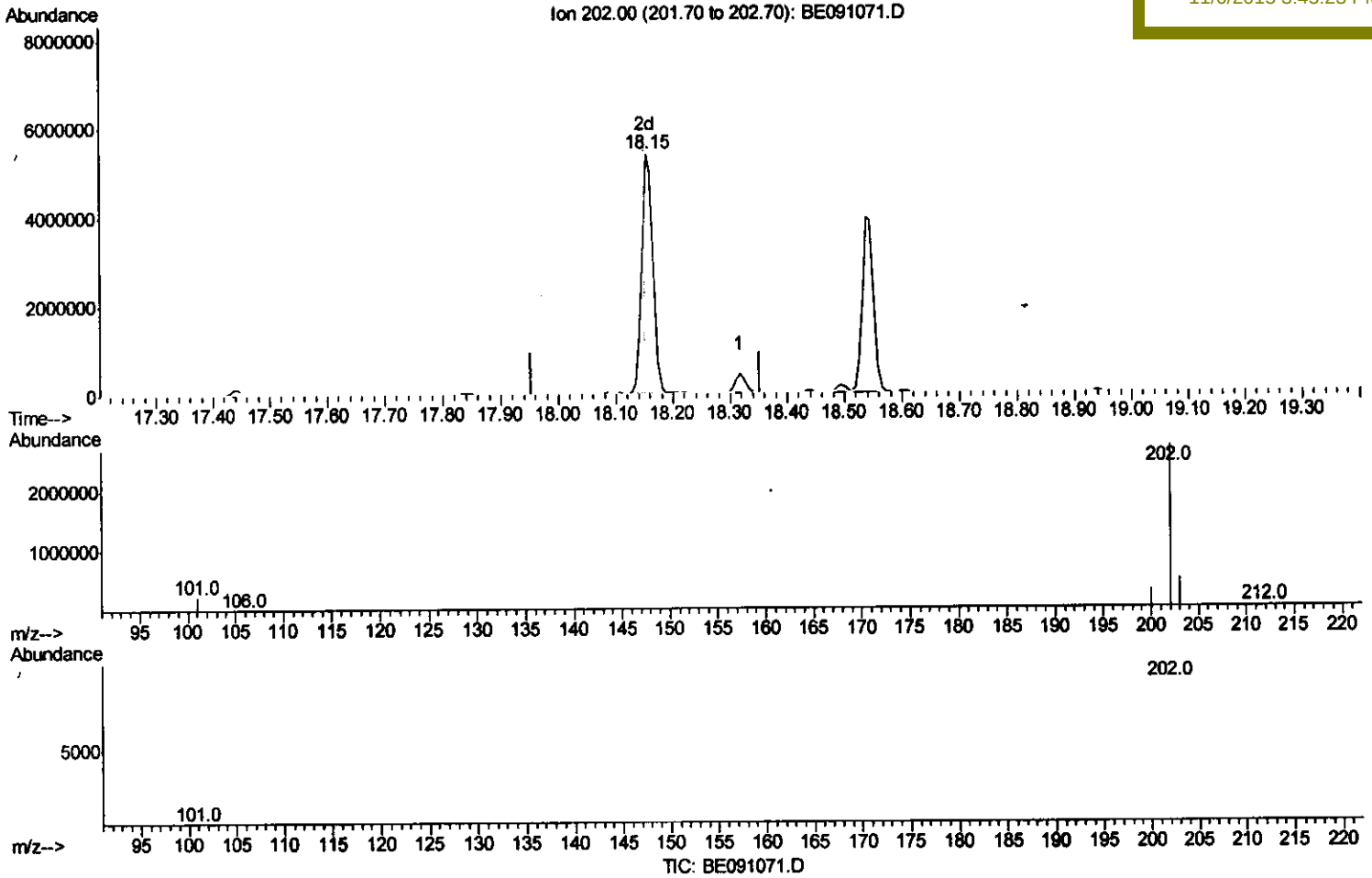
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAP4

Quant Time: Nov 06 05:44:41 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(17) Fluoranthene (C)

18.154min (+0.000) 21.14ng/ul m

response 7466016

Ion	Exp%	Act%
202.00	100	100
101.00	13.10	8.05
203.00	17.20	18.07
0.00	0.00	0.00

U.M
 11/06/15

Quantitation Report (Qedit)

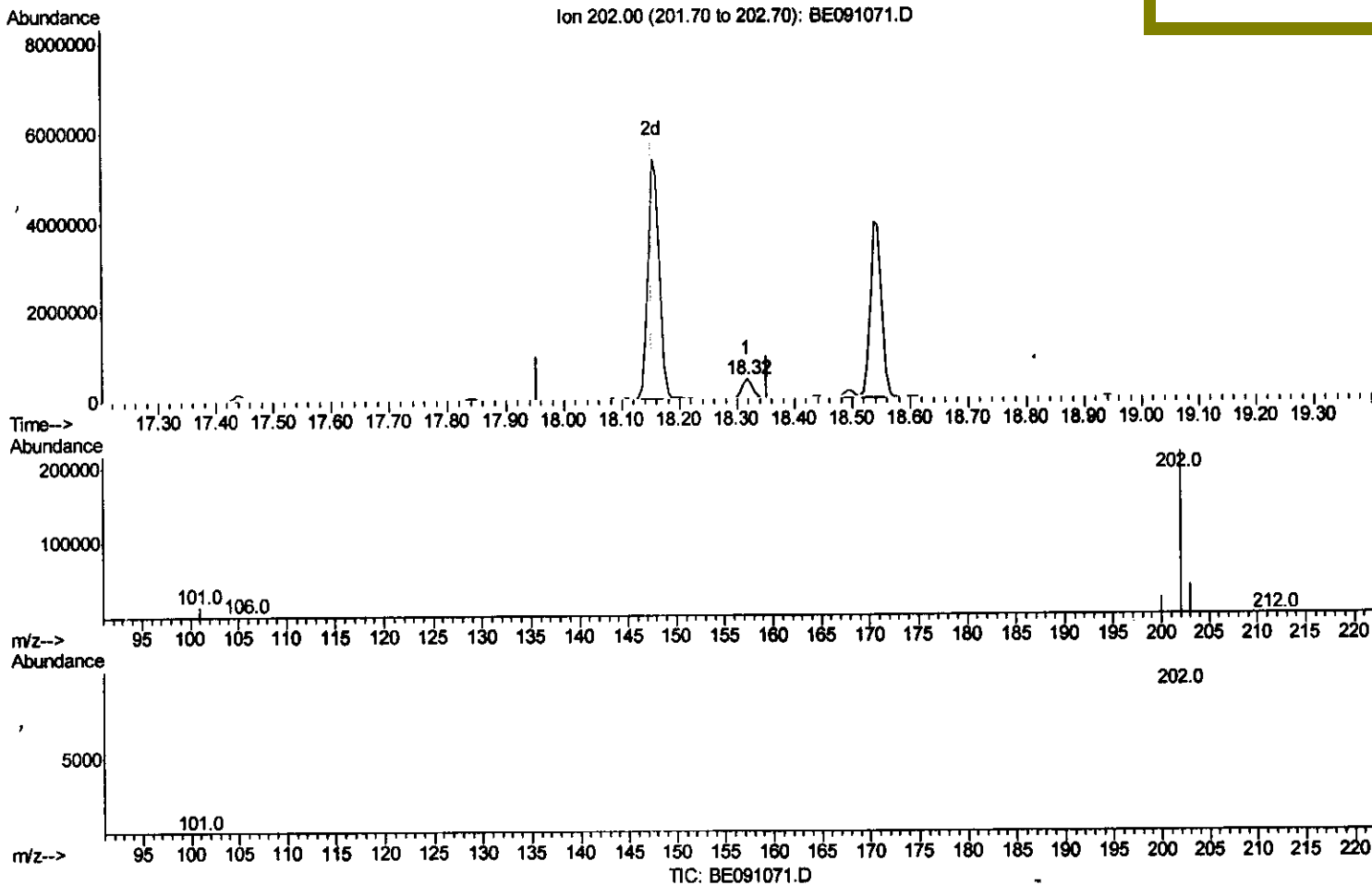
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 05:44:41 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(17) Fluoranthene (C)

18.317min (+0.163) 1.56ng/ul

response 552137

Ion	Exp%	Act%
202.00	100	100
101.00	13.10	3.36
203.00	17.20	17.88
0.00	0.00	0.00

Quantitation Report (Qedit)

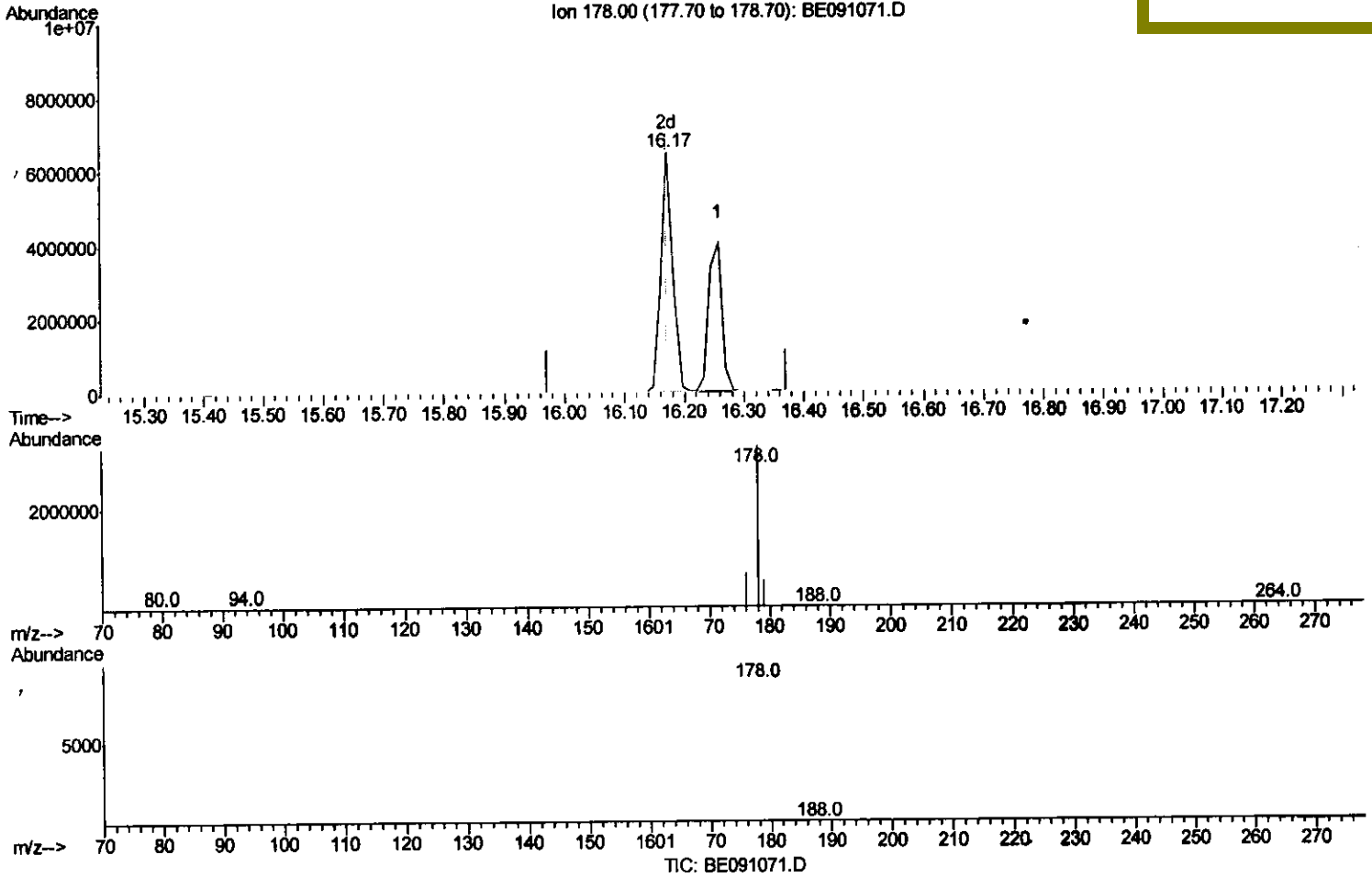
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 05:44:41 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(14) Phenanthrene

16.172min (-0.000) 29.17ng/ul m

response 8801988

Ion	Exp%	Act%
178.00	100	100
176.00	20.30	20.90
179.00	16.00	16.35
0.00	0.00	0.00

V M
 11/06/15

Quantitation Report (Qedit)

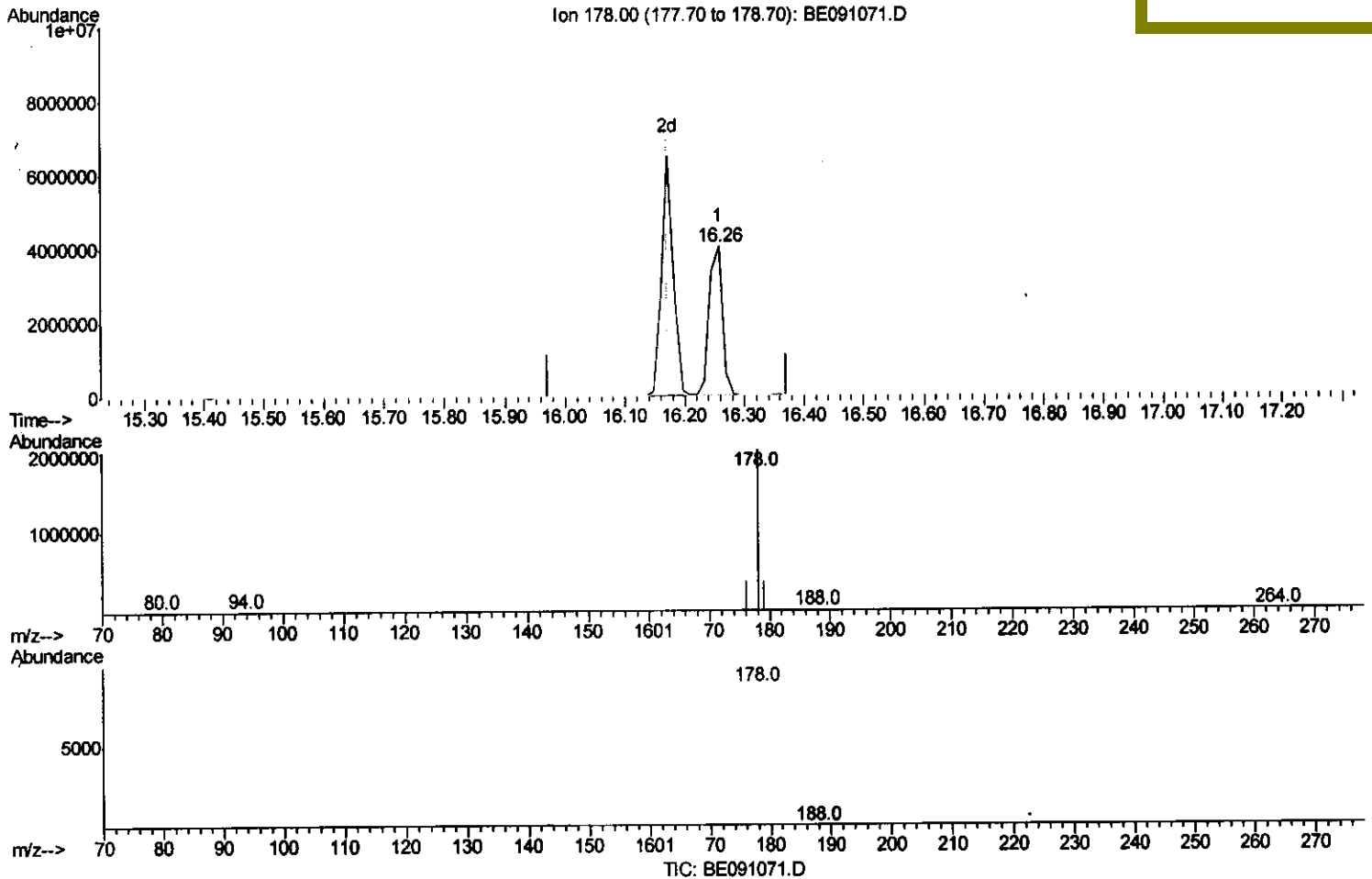
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 05:44:41 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(14) Phenanthrene

16.257min (+0.085) 20.25ng/ul

response 6110427

Ion	Exp%	Act%
178.00	100	100
176.00	20.30	17.65
179.00	16.00	17.58
0.00	0.00	0.00

Quantitation Report (Qedit)

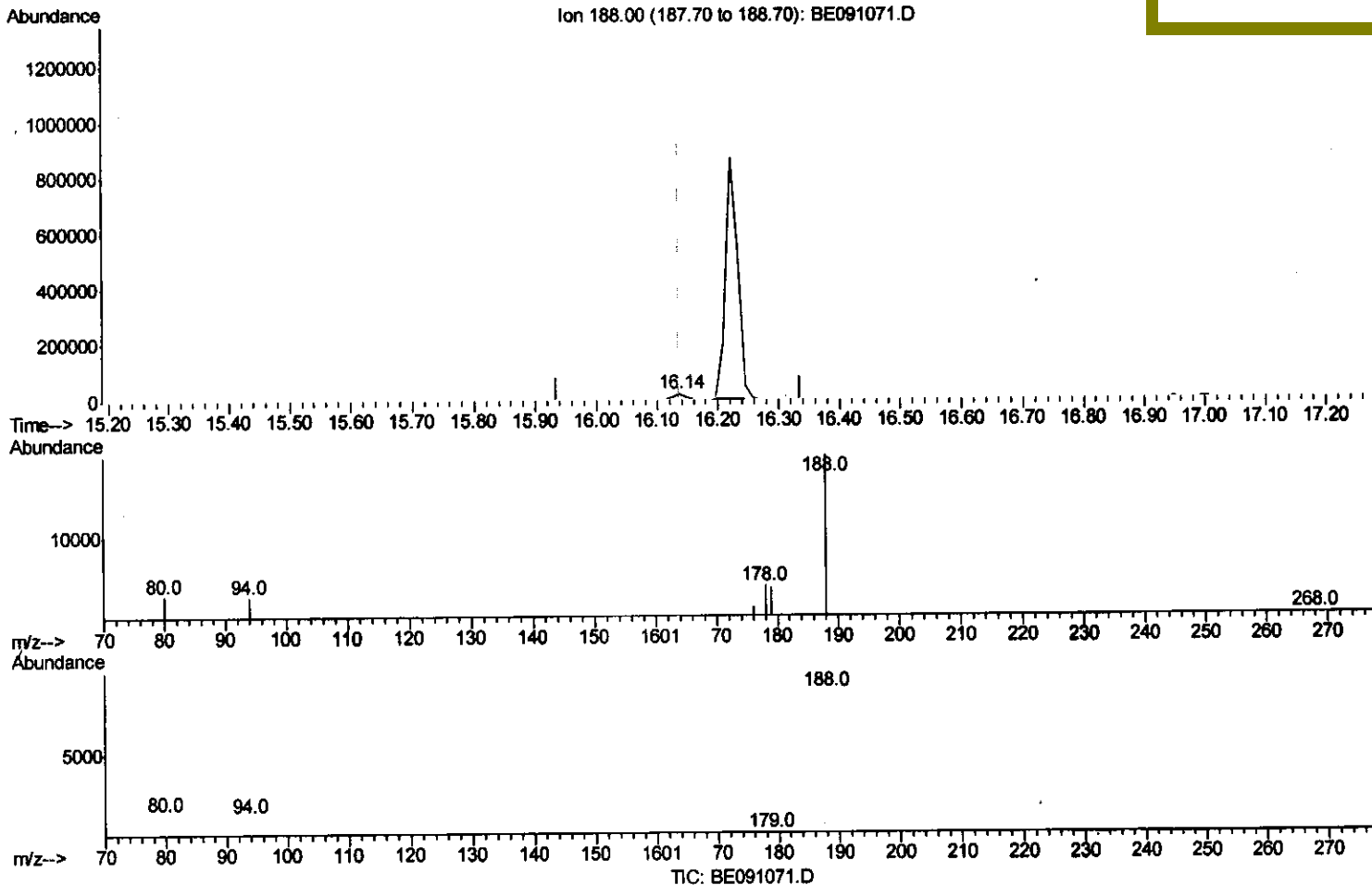
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AP4

Quant Time: Nov 06 05:44:41 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(12) Phenanthrene-d10 (I)

16.136min (-0.000) 0.40ng/ul m

response 26131

Ion	Exp%	Act%
188.00	100	100
94.00	9.00	12.76#
80.00	8.90	13.88#
0.00	0.00	0.00

U.M
 11/06/15

Quantitation Report (Qedit)

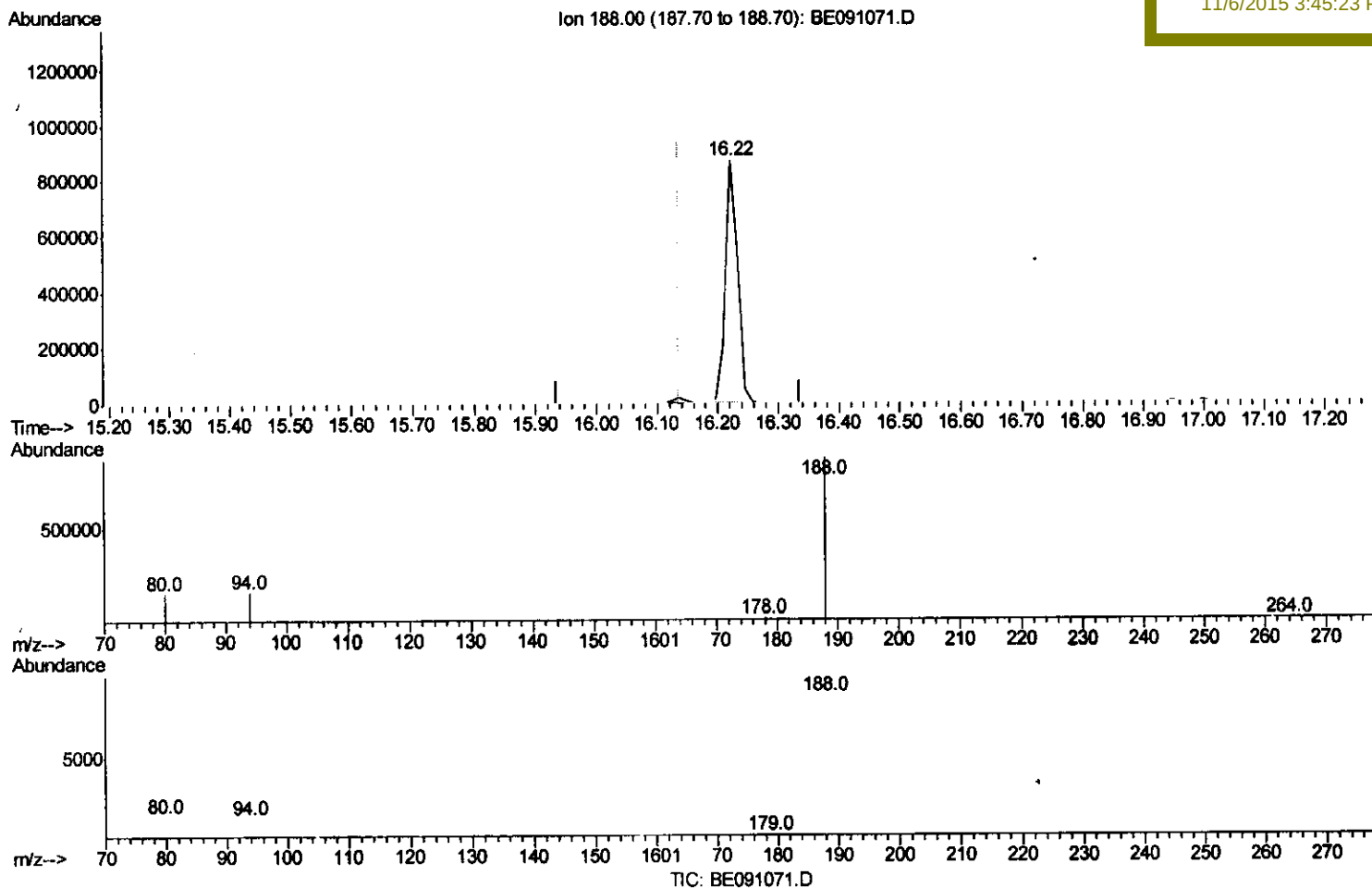
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091071.D
 Acq On : 5 Nov 2015 17:49
 Operator : UM/NP
 Sample : G4273-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAP4

Quant Time: Nov 06 05:44:41 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE102715.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 06 05:41:57 2015
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:23 PM



(12) Phenanthrene-d10 (I)

16.221min (+0.085) 0.40ng/ul

response 1226031

Ion	Exp%	Act%
188.00	100	100
94.00	9.00	17.52#
80.00	8.90	16.84#
0.00	0.00	0.00