

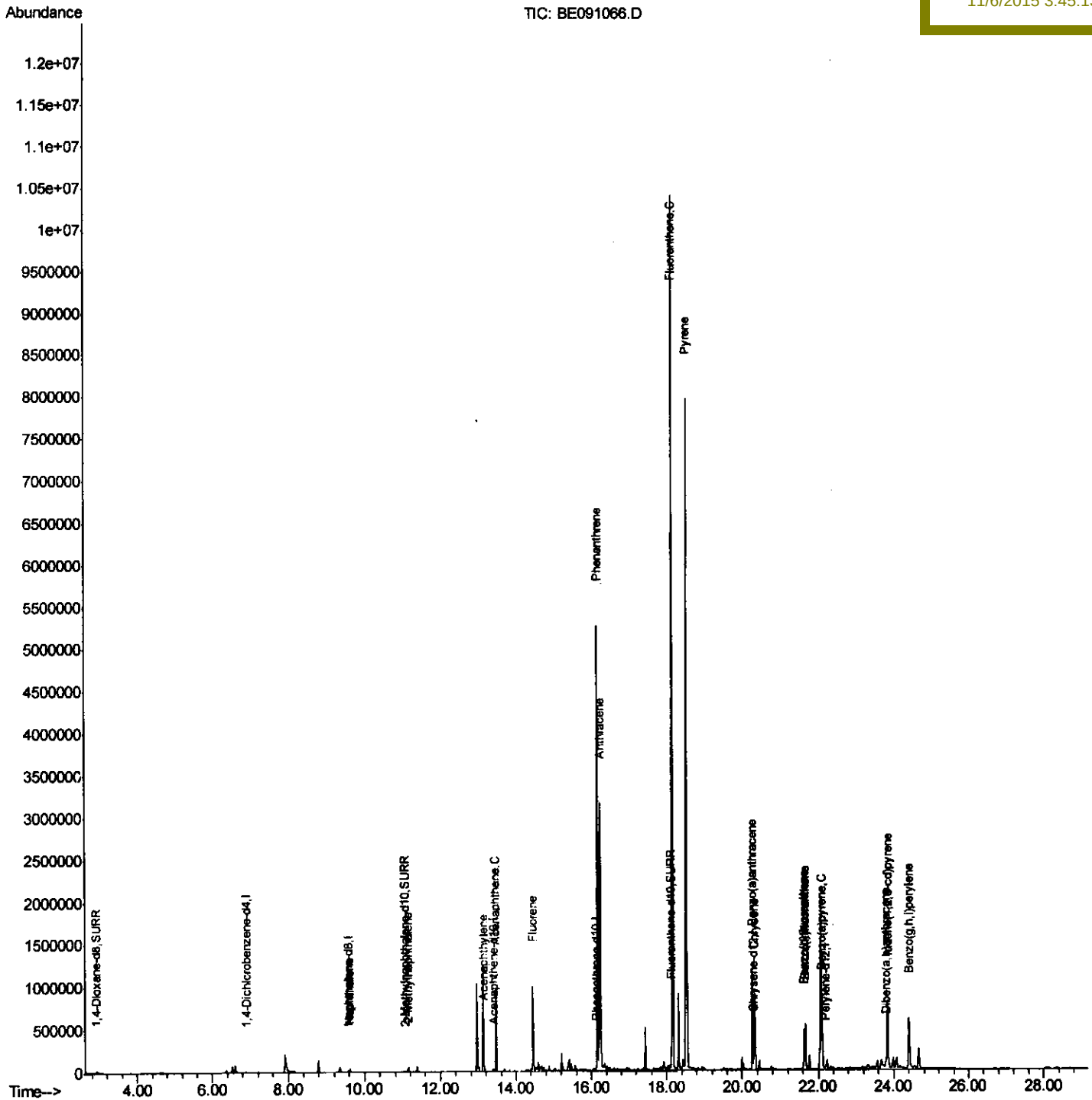
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
Data File : BE091066.D
Acq On : 5 Nov 2015 12:42
Operator : UM/NP
Sample : G4273-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
COAN8

Quant Time: Nov 06 06:05:48 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 3:45:13 PM



Quantitation Report (Qedit)

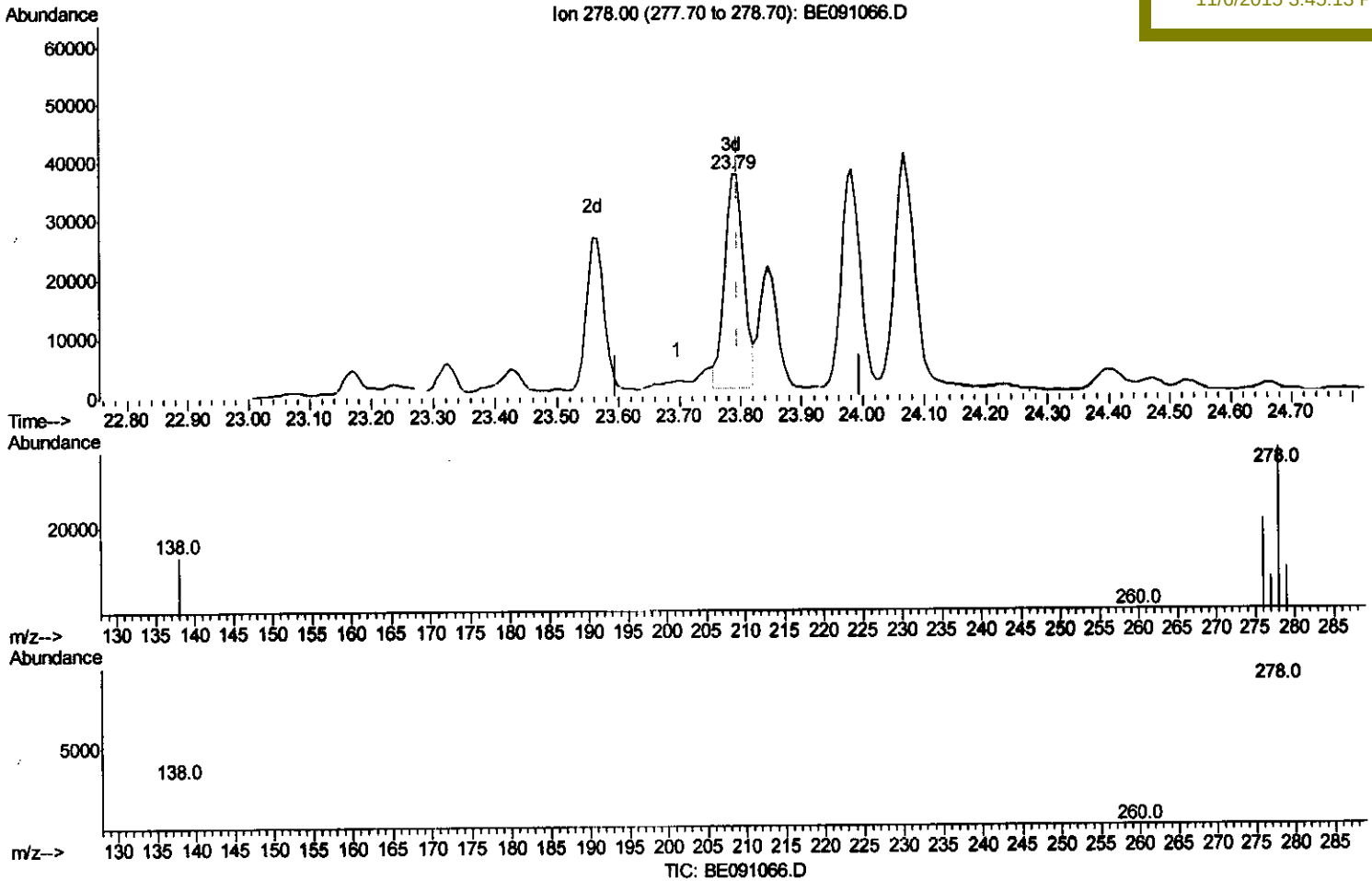
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AN8

Quant Time: Nov 06 06:04:00 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
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Manual Integrations
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(27) Dibenzo(a,h)anthracene

23.787min (-0.008) 0.53ng/ul m

response 79328

Ion	Exp%	Act%
278.00	100	100
139.00	27.10	0.00#
279.00	27.40	26.13
0.00	0.00	0.00

U.M
 11/06/15

Quantitation Report (Qedit)

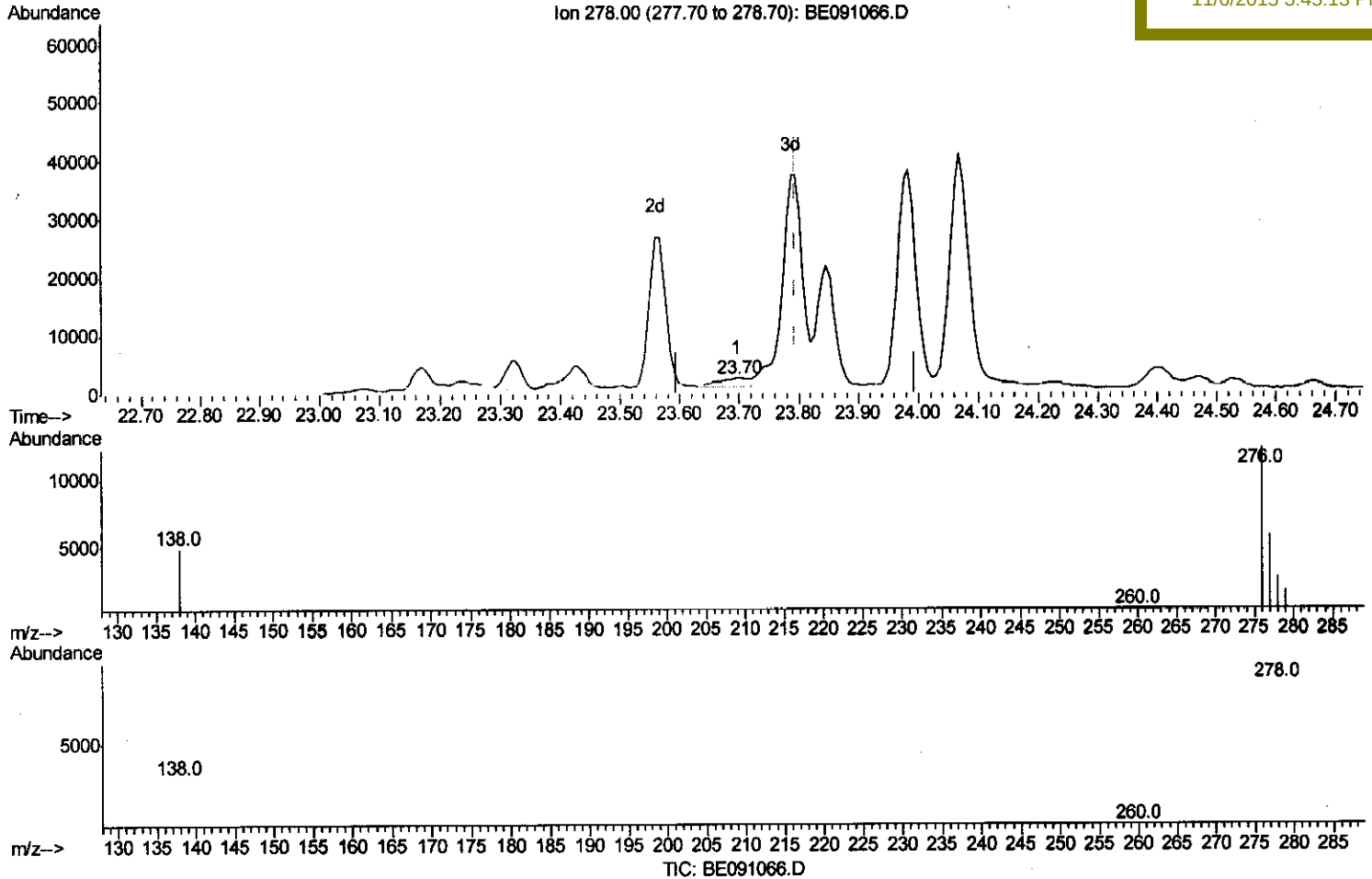
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAN8

Quant Time: Nov 06 06:04:00 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

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(27) Dibenzo(a,h)anthracene

23.696min (-0.099) 0.04ng/ul

response 5321

Ion	Exp%	Act%
278.00	100	100
139.00	27.10	0.00#
279.00	27.40	61.02#
0.00	0.00	0.00

Quantitation Report (Qedit)

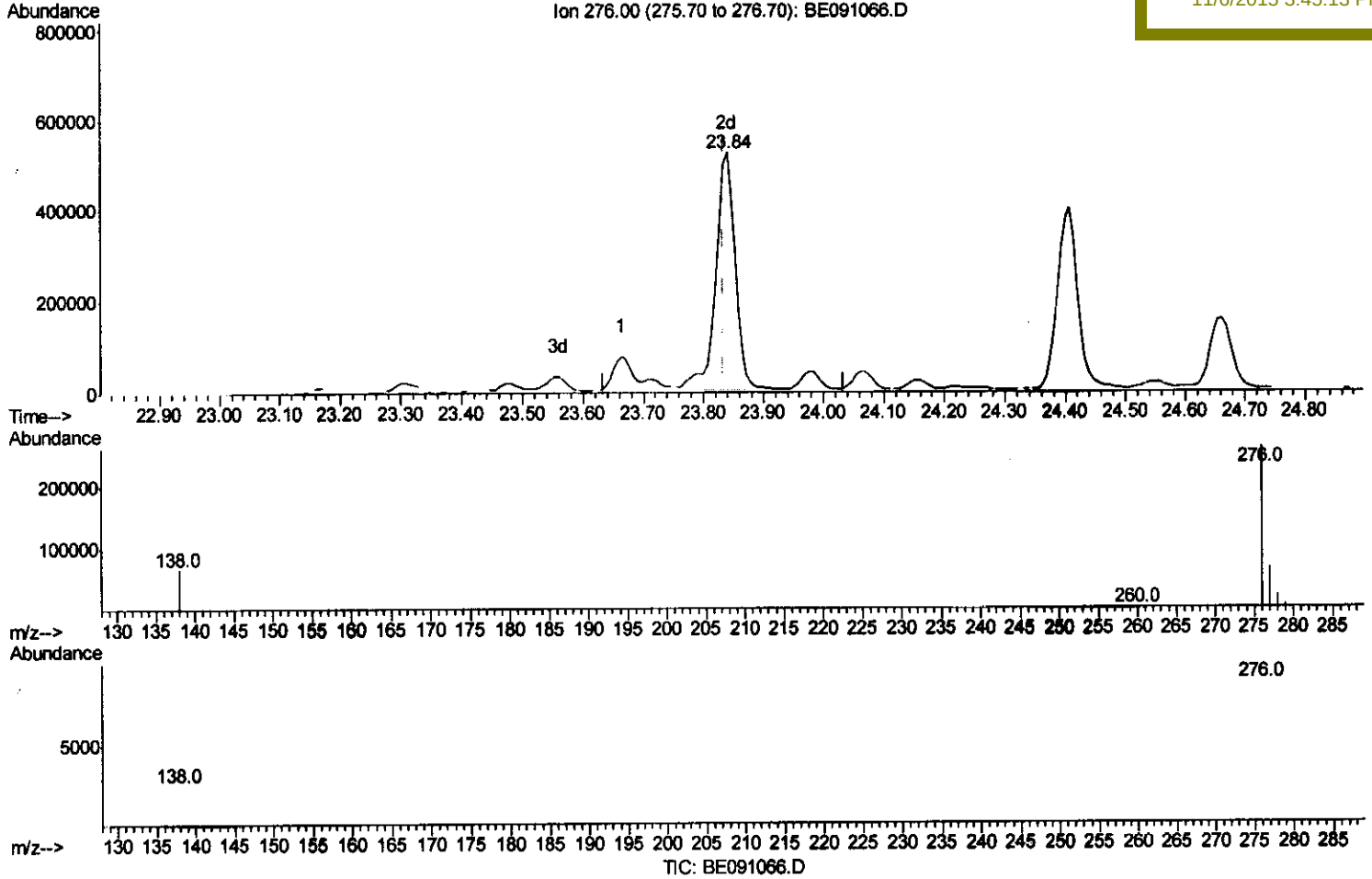
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAN8

Quant Time: Nov 06 06:04:00 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

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

23.839min (+0.005) 1.76ng/ul m

response 1109119

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	5.40#
277.00	24.10	7.33#
0.00	0.00	0.00

V. M
 11/06/15

Quantitation Report (Qedit)

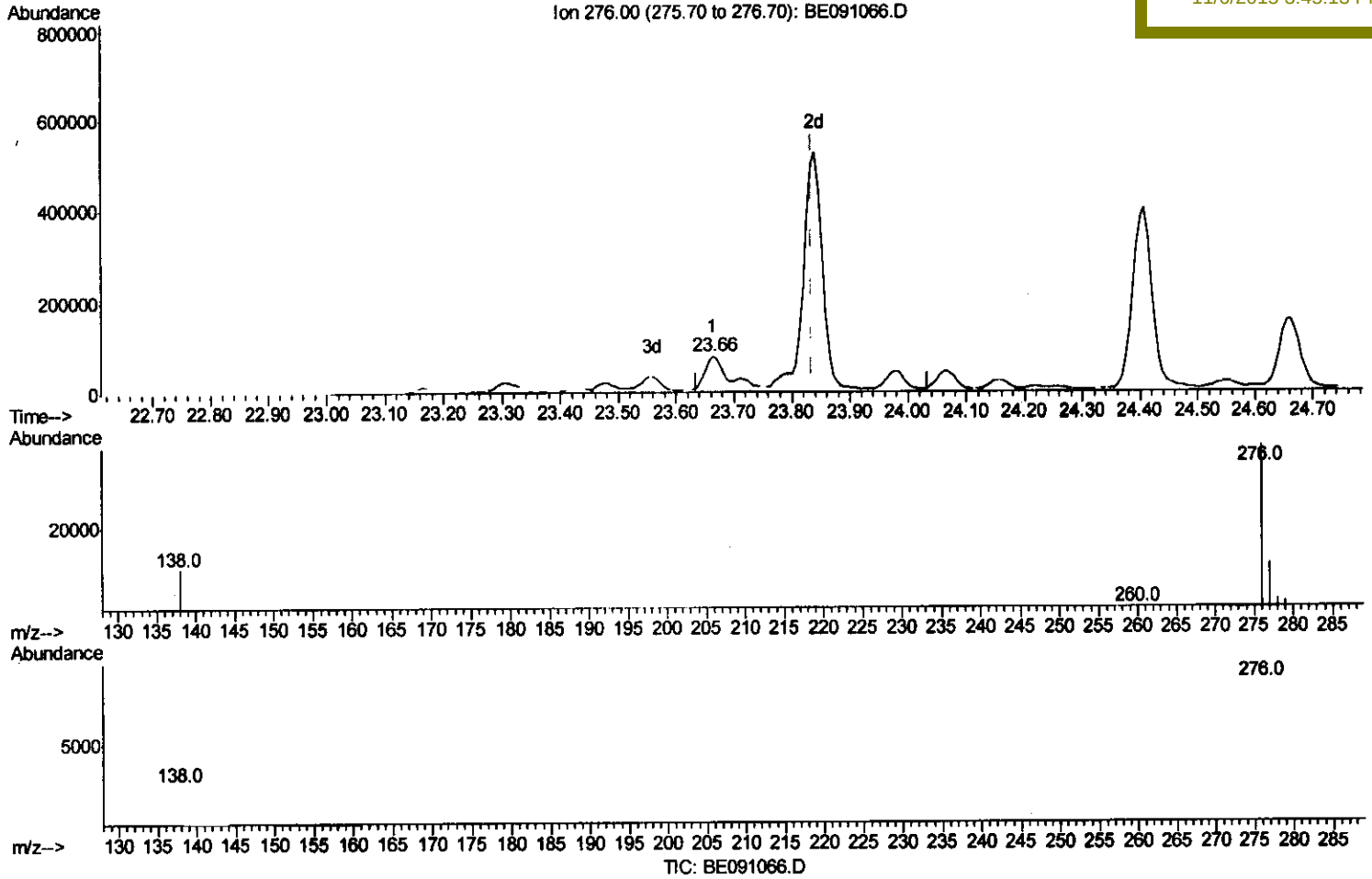
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAN8

Quant Time: Nov 06 06:04:00 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

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

23.663min (-0.171) 0.36ng/ul

response 226604

Ion	Exp%	Act%
276.00	100	100
138.00	34.40	26.41#
277.00	24.10	35.88#
0.00	0.00	0.00

Quantitation Report (Qedit)

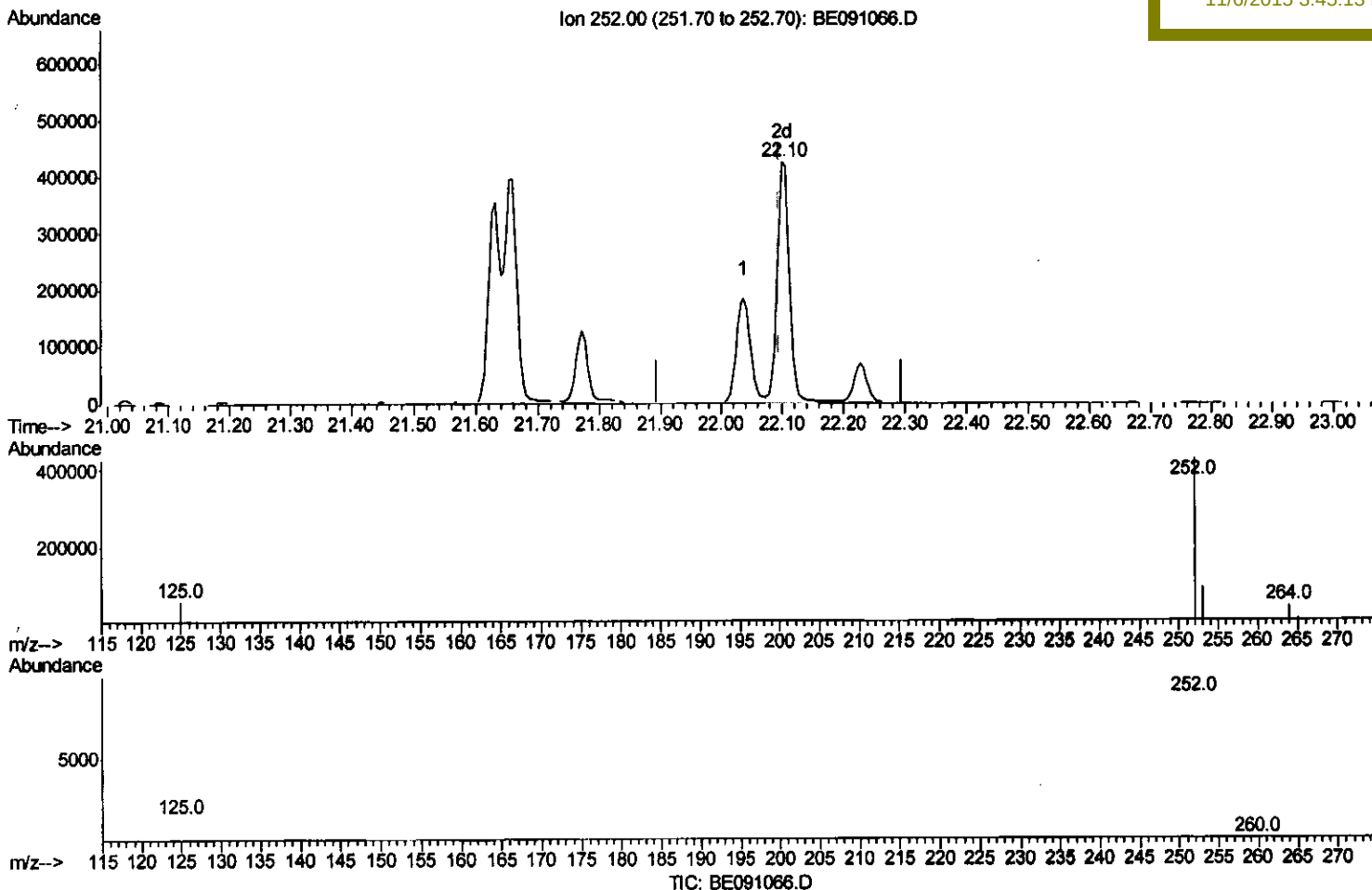
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AN8

Manual Integrations
 APPROVED

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Quant Time: Nov 06 06:04:00 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



(25) Benzo(a)pyrene (C)

22.100min (+0.005) 3.92ng/ul m

response 586155

Ion	Exp%	Act%
252.00	100	100
253.00	27.30	21.88
125.00	18.10	14.32#
0.00	0.00	0.00

U.M
 11/06/15

Quantitation Report (Qedit)

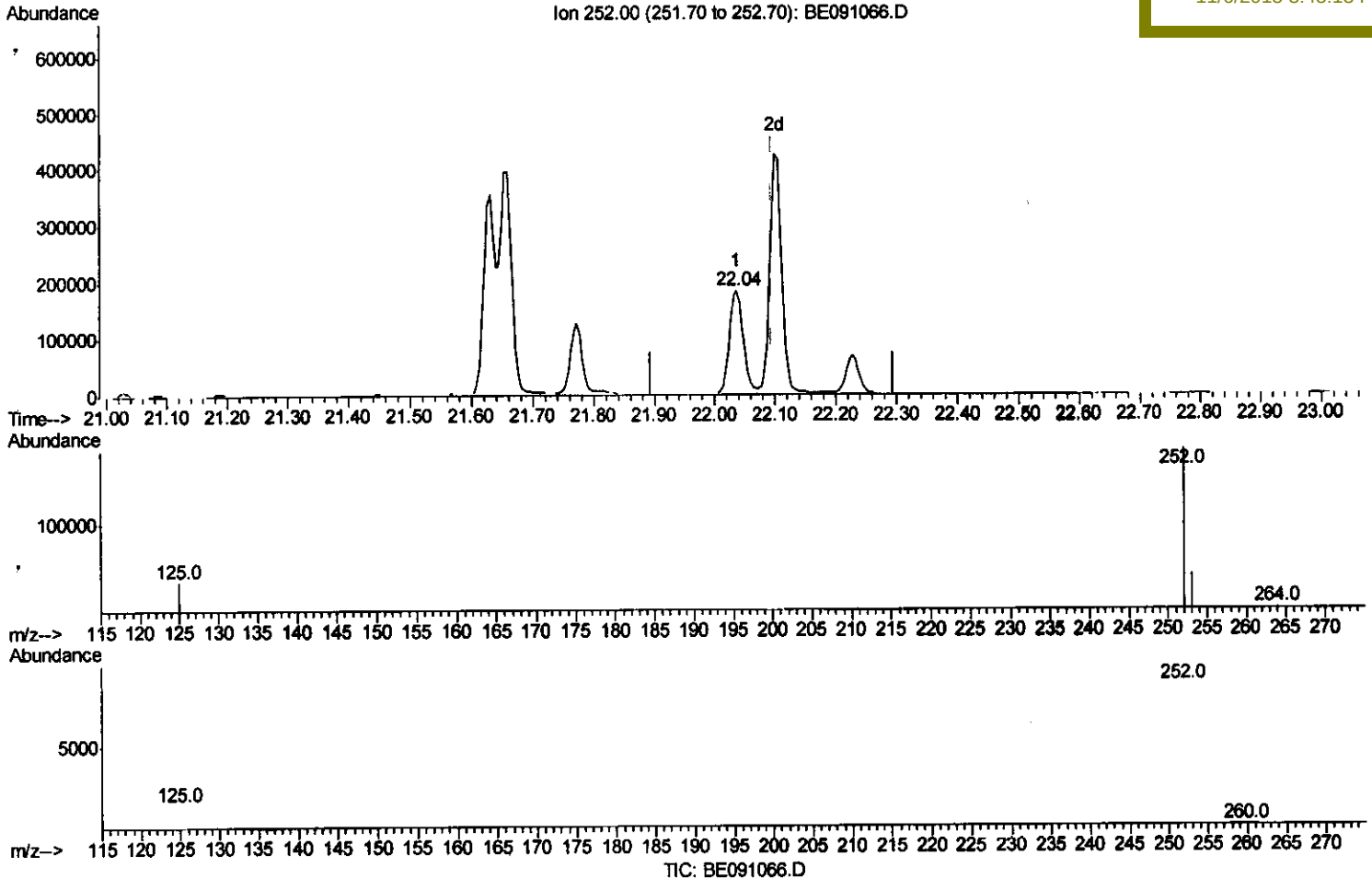
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AN8

Quant Time: Nov 06 06:04:00 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 3:45:13 PM



(25) Benzo(a)pyrene (C)

22.036min (-0.058) 1.95ng/ul

response 292263

Ion	Exp%	Act%
252.00	100	100
253.00	27.30	22.47
125.00	18.10	18.64
0.00	0.00	0.00

Quantitation Report (Qedit)

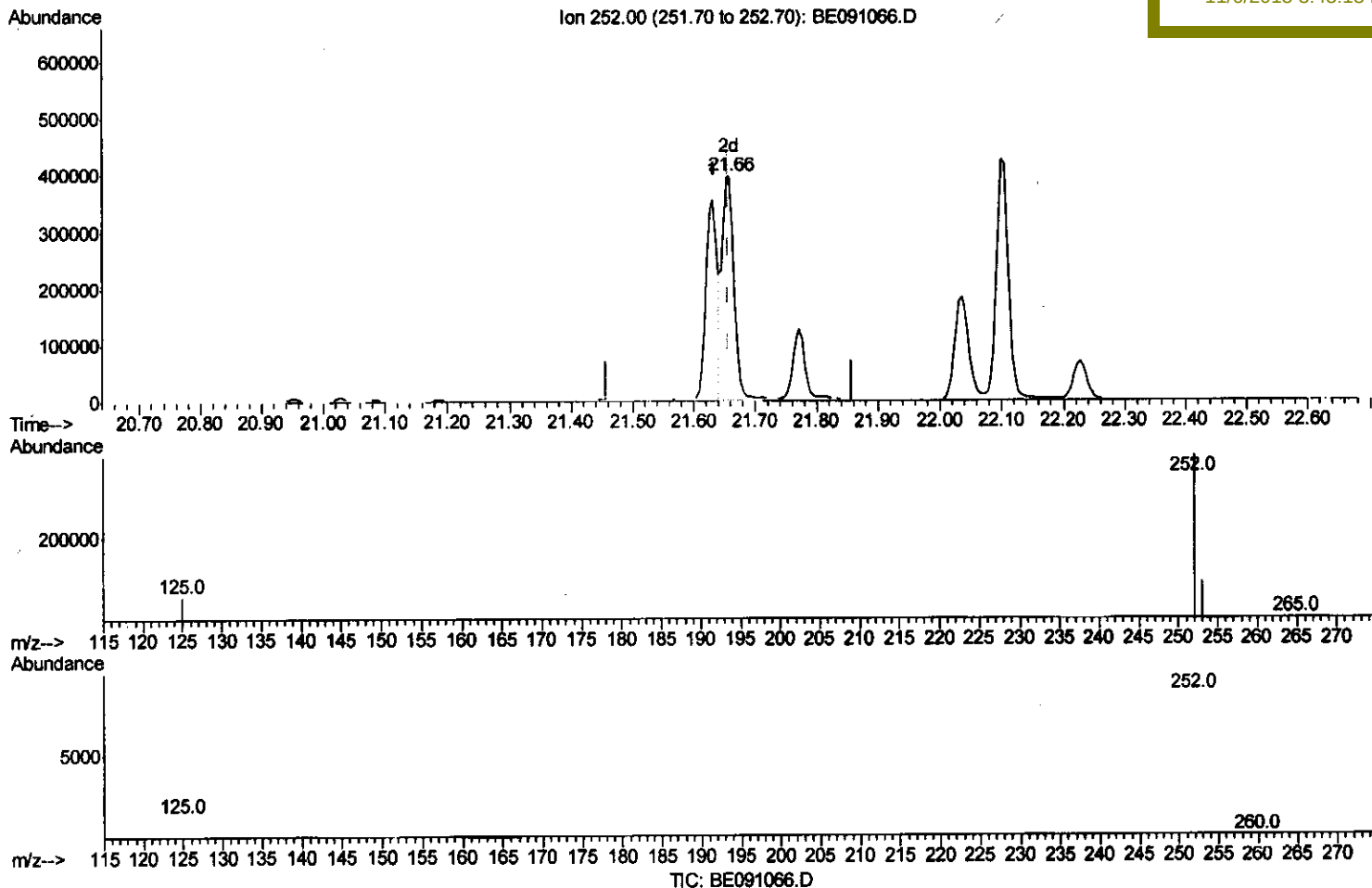
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAN8

Quant Time: Nov 06 06:04:00 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 3:45:13 PM



(24) Benzo(k)fluoranthene

21.658min (+0.001) 3.29ng/ul m

response 547979

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	22.67
125.00	15.30	14.14
0.00	0.00	0.00

V. M
 11/06/15

Quantitation Report (Qedit)

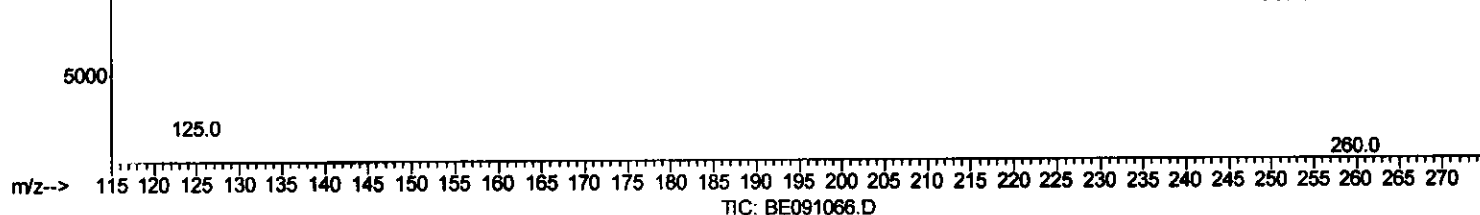
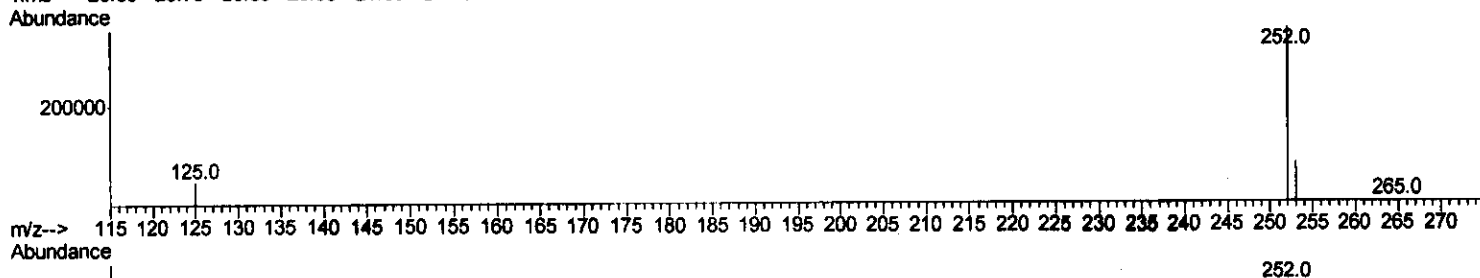
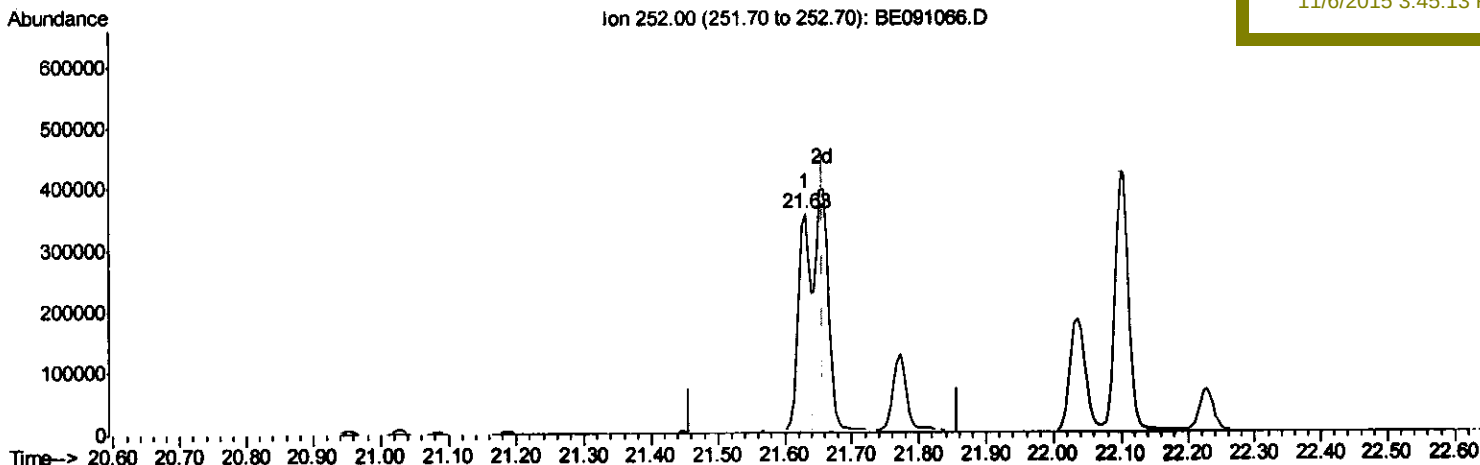
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 06:04:00 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 :
 COAN8

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:13 PM



(24) Benzo(k)fluoranthene
 21.631min (-0.027) 2.71ng/ul
 response 450935

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	22.67
125.00	15.30	12.85
0.00	0.00	0.00

Quantitation Report (Qedit)

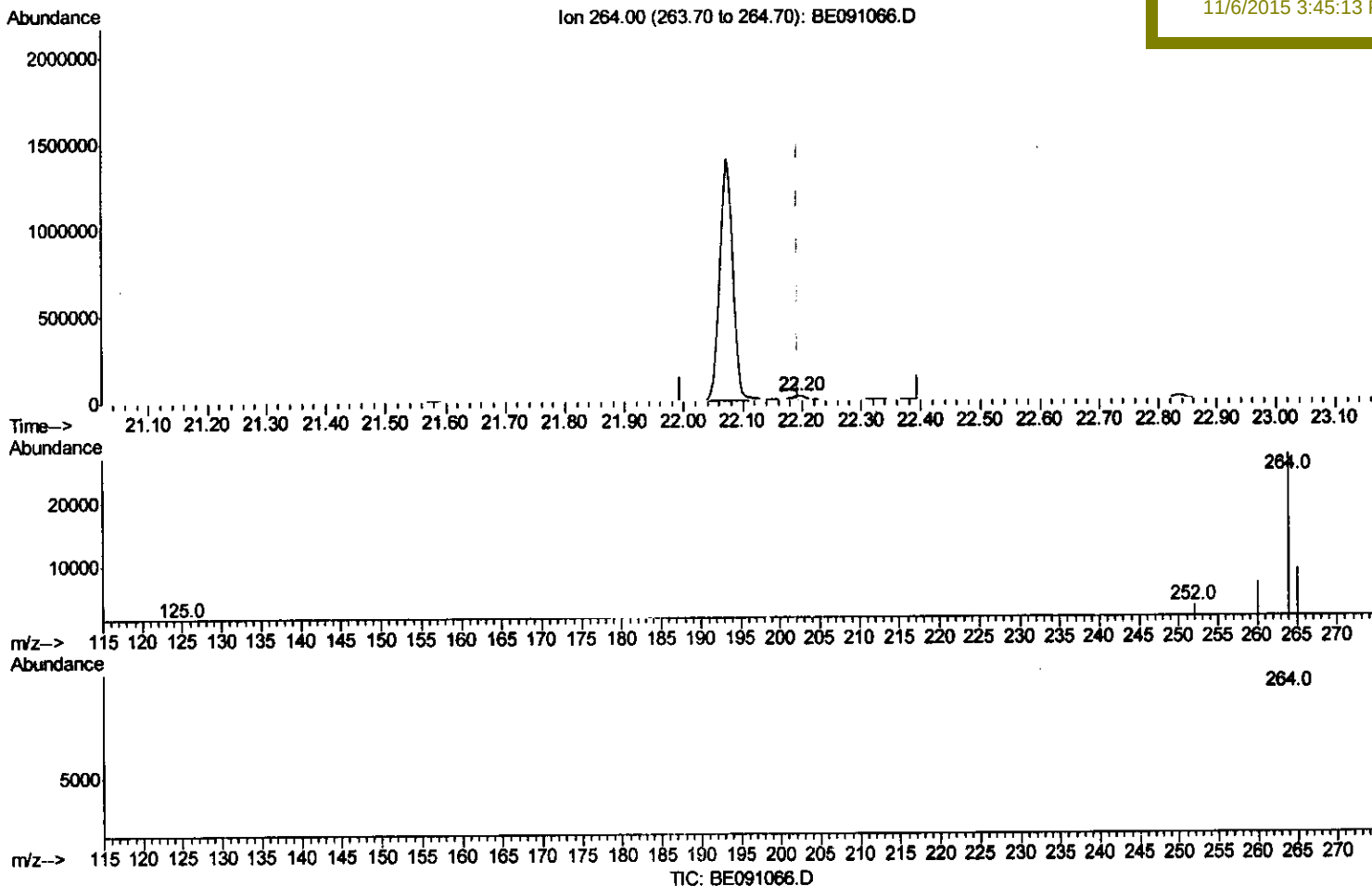
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 06:03:01 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 :
 COAN8

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:13 PM



(22) Perylene-d12 (I)

22.195min (+0.001) 0.40ng/ul m

response 51981

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	24.96
265.00	34.70	33.12
0.00	0.00	0.00

U M
 11/06/15

Quantitation Report (Qedit)

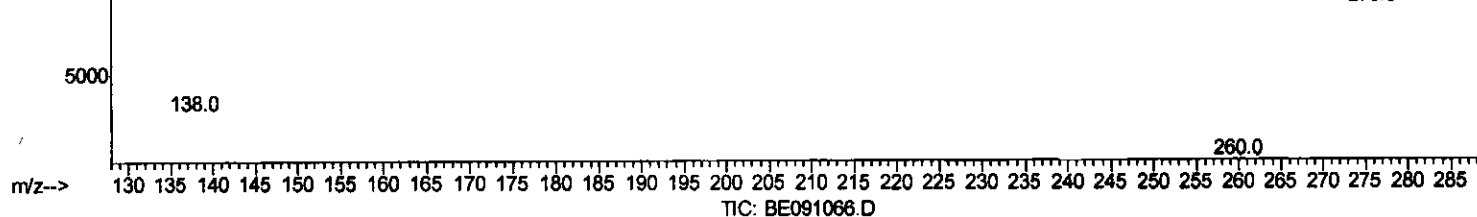
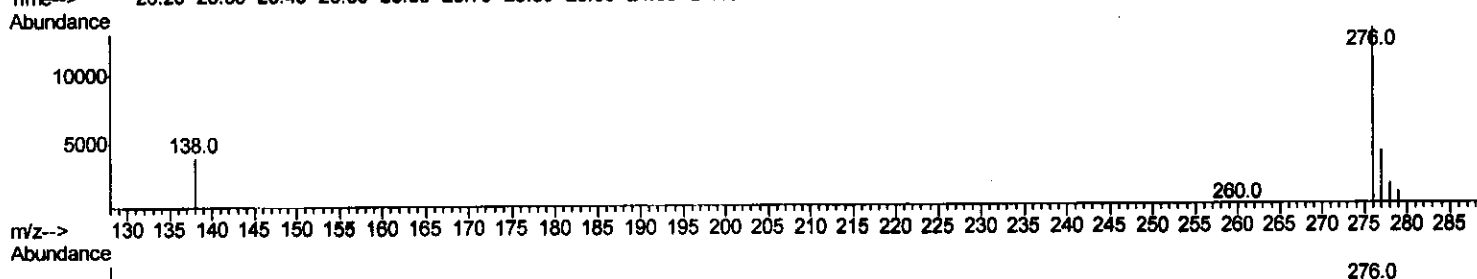
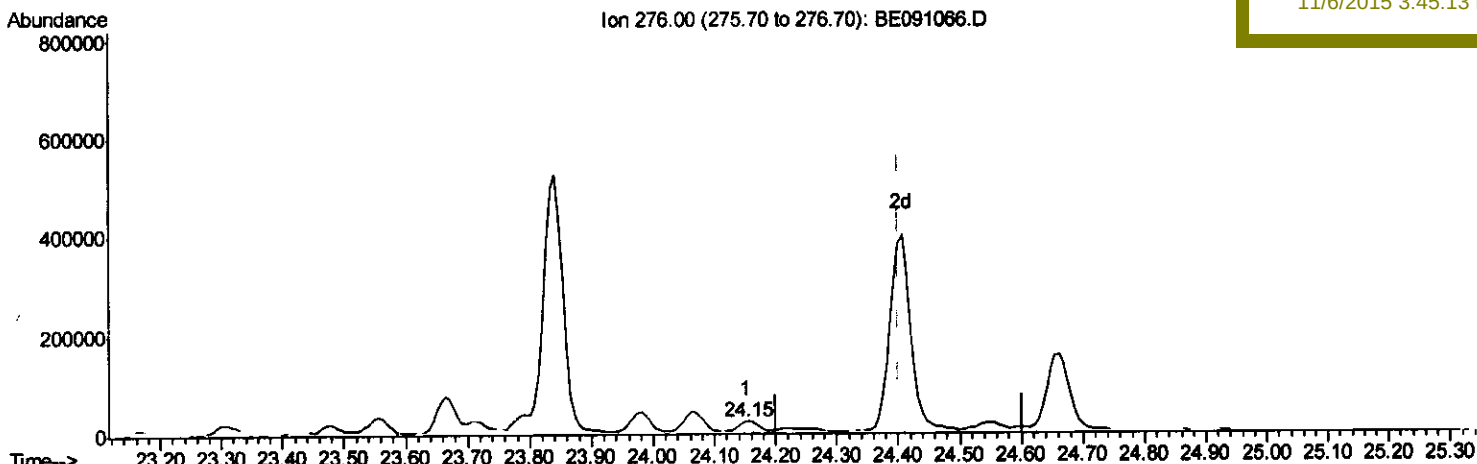
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 06:04:00 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 :
 C0AN8

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:13 PM



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

24.152min (-0.249) 0.07ng/ul

response 43444

Ion	Exp%	Act%
276.00	100	100
277.00	26.60	31.21
138.00	31.90	30.36
0.00	0.00	0.00

Quantitation Report (Qedit)

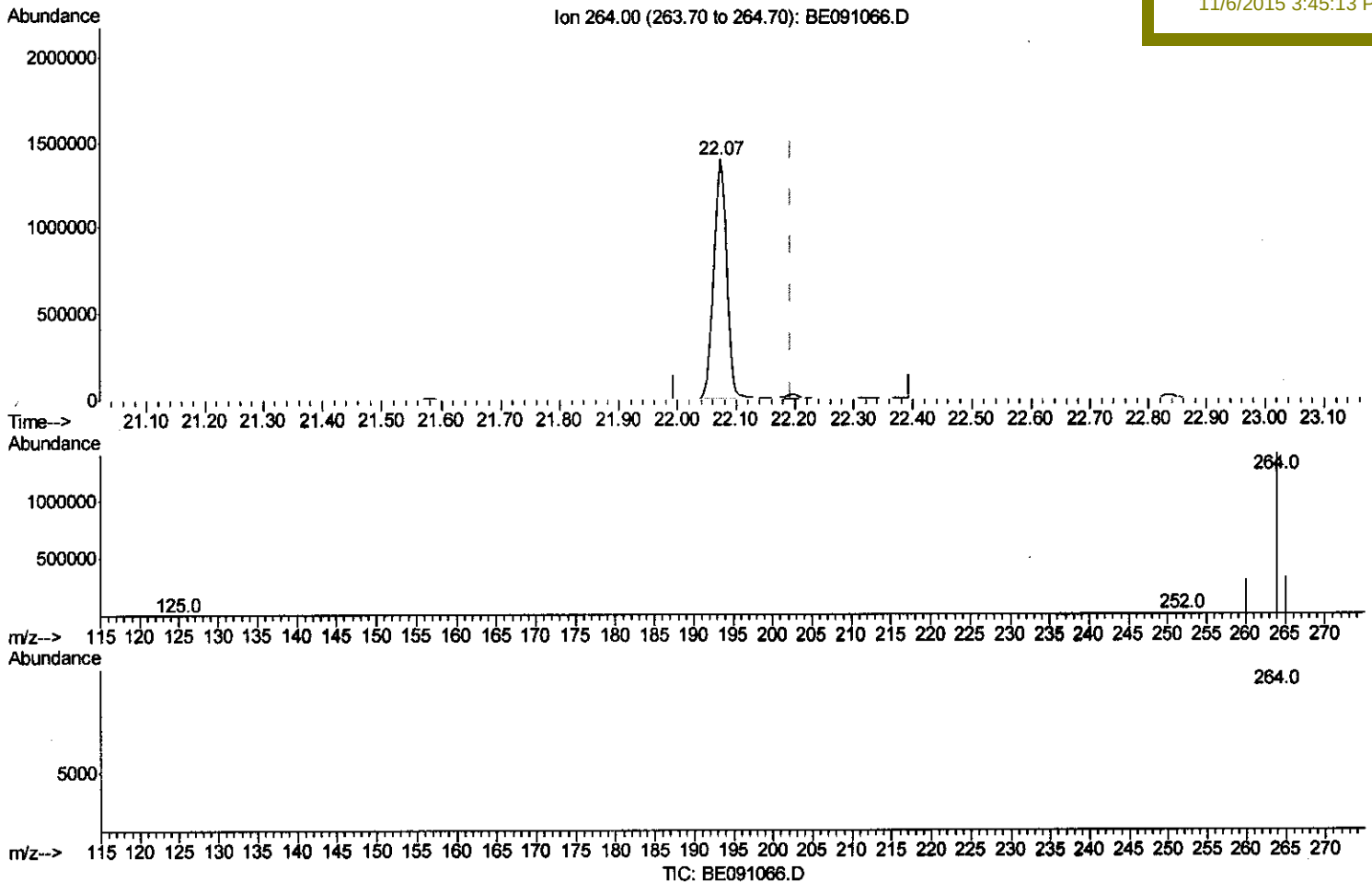
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AN8

Quant Time: Nov 06 06:03:01 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
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Mmdadoda
 11/6/2015 3:45:13 PM



(22) Perylene-d12 (I)

22.072min (-0.122) 0.40ng/ul

response 2185276

Ion	Exp%	Act%
264.00	100	100
260.00	28.90	21.69#
265.00	34.70	22.87#
0.00	0.00	0.00

Quantitation Report (Qedit)

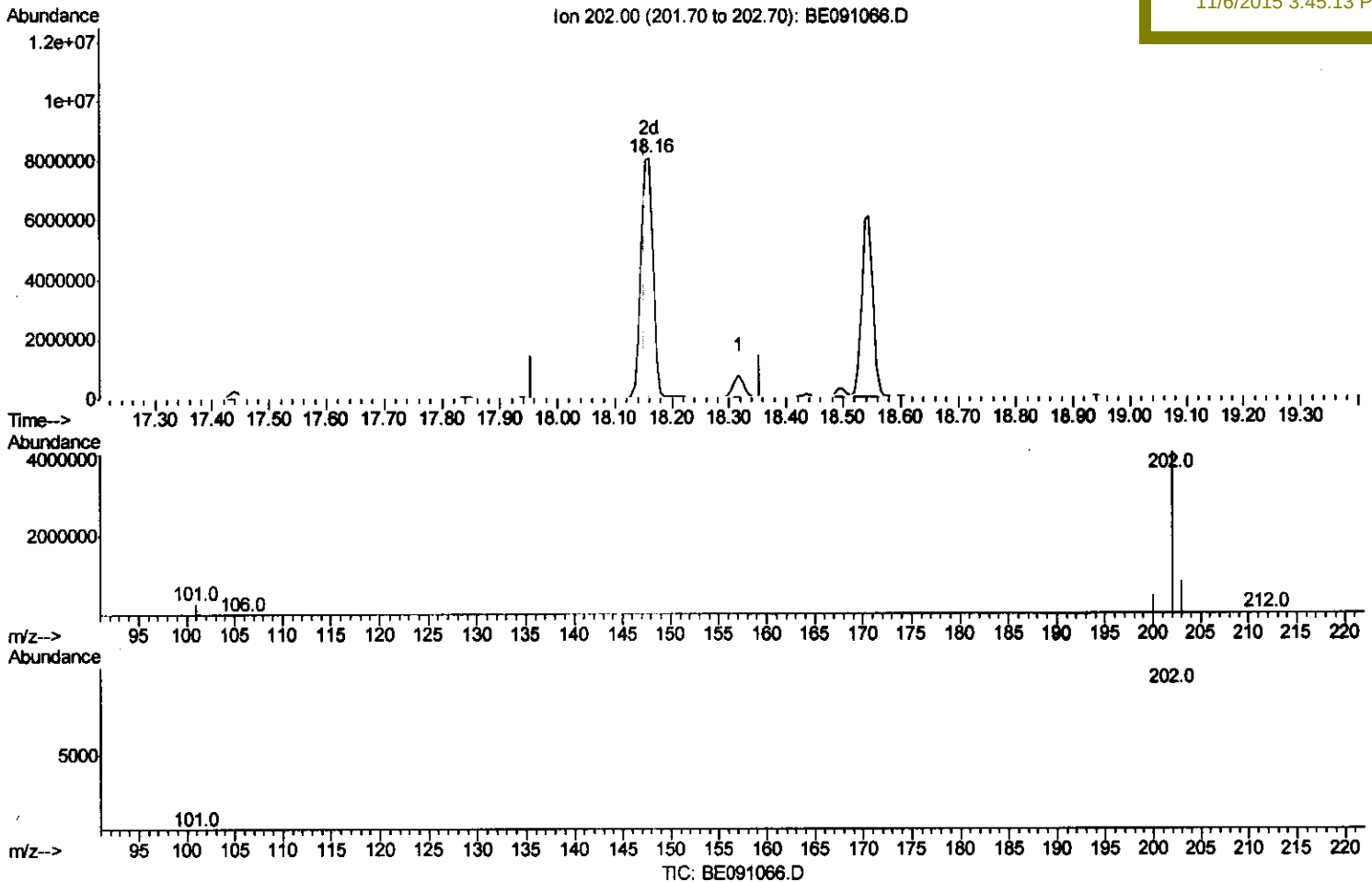
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 06:03:01 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 :
 C0AN8

Manual Integrations
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(17) Fluoranthene (C)

18.160min (+0.007) 23.82ng/ul m

response 11552091

Ion	Exp%	Act%
202.00	100	100
101.00	13.10	6.67
203.00	17.20	20.16
0.00	0.00	0.00

V.M
 11/26/15

Quantitation Report (Qedit)

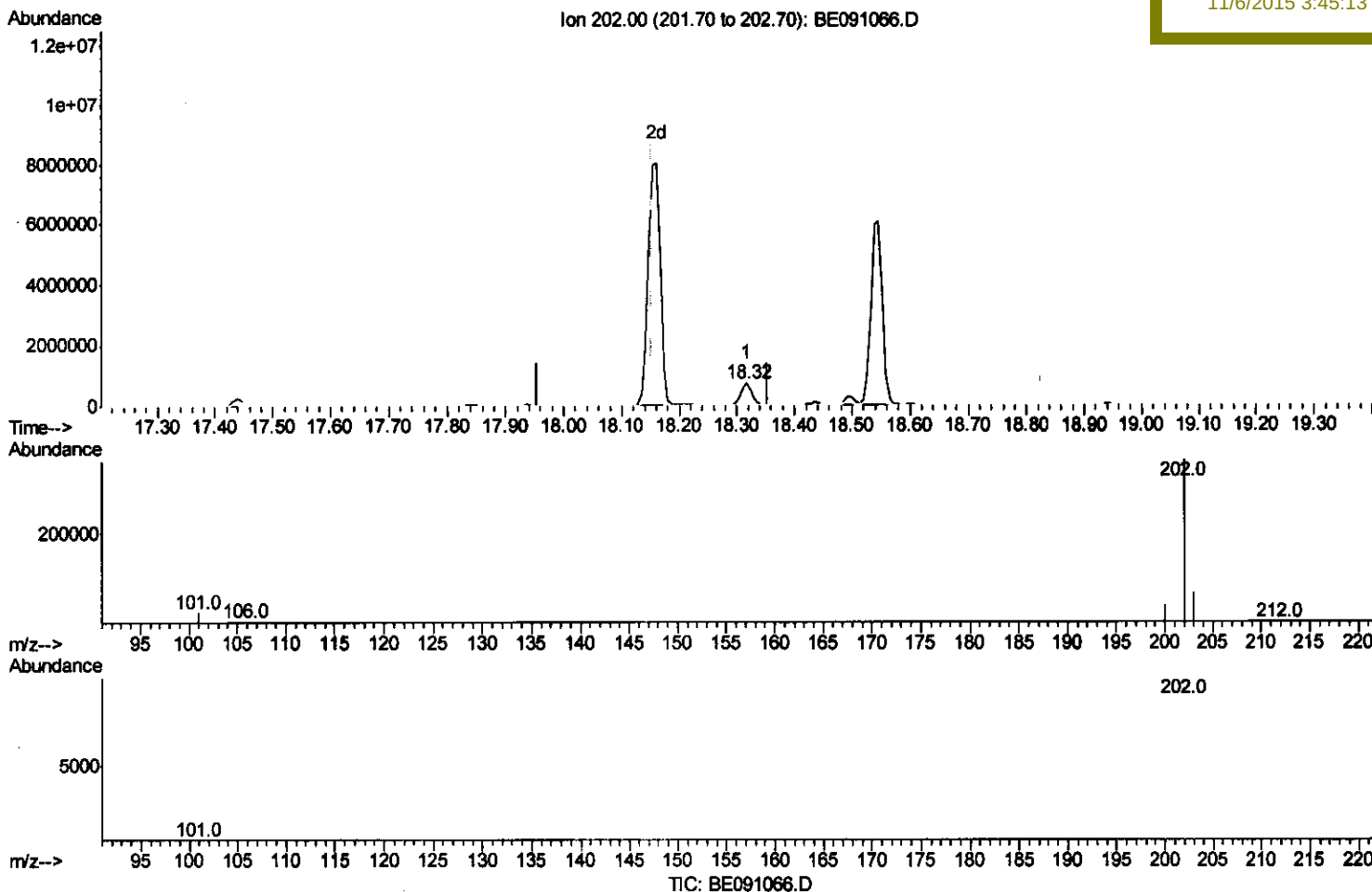
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 06 06:03:01 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 :
 COAN8

Manual Integrations
 APPROVED

Mmdadoda
 11/6/2015 3:45:13 PM



(17) Fluoranthene (C)

18.317min (+0.163) 1.88ng/ul

response 910457

Ion	Exp%	Act%
202.00	100	100
101.00	13.10	3.05
203.00	17.20	17.89
0.00	0.00	0.00

Quantitation Report (Qedit)

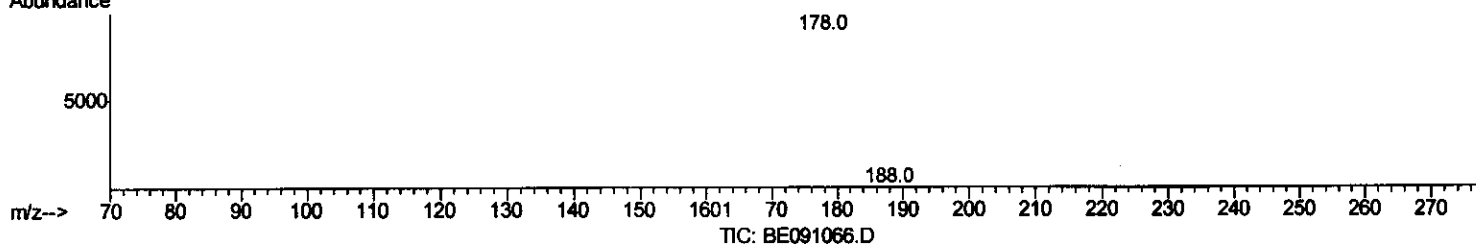
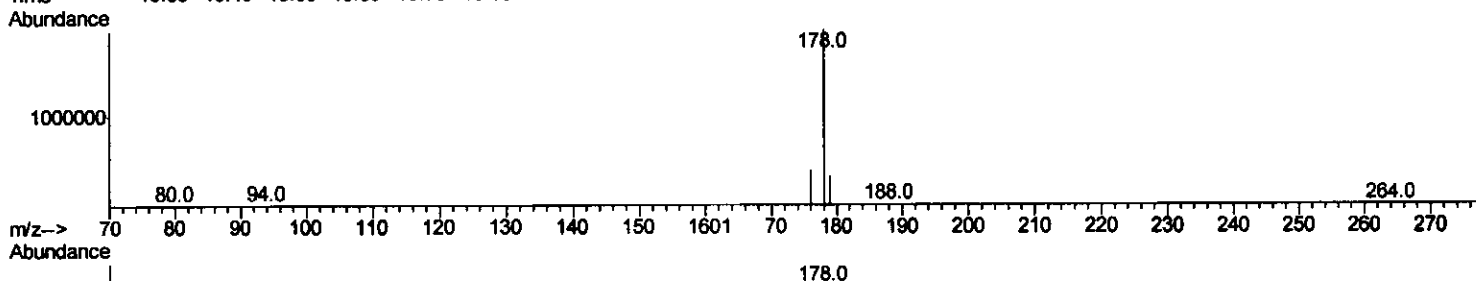
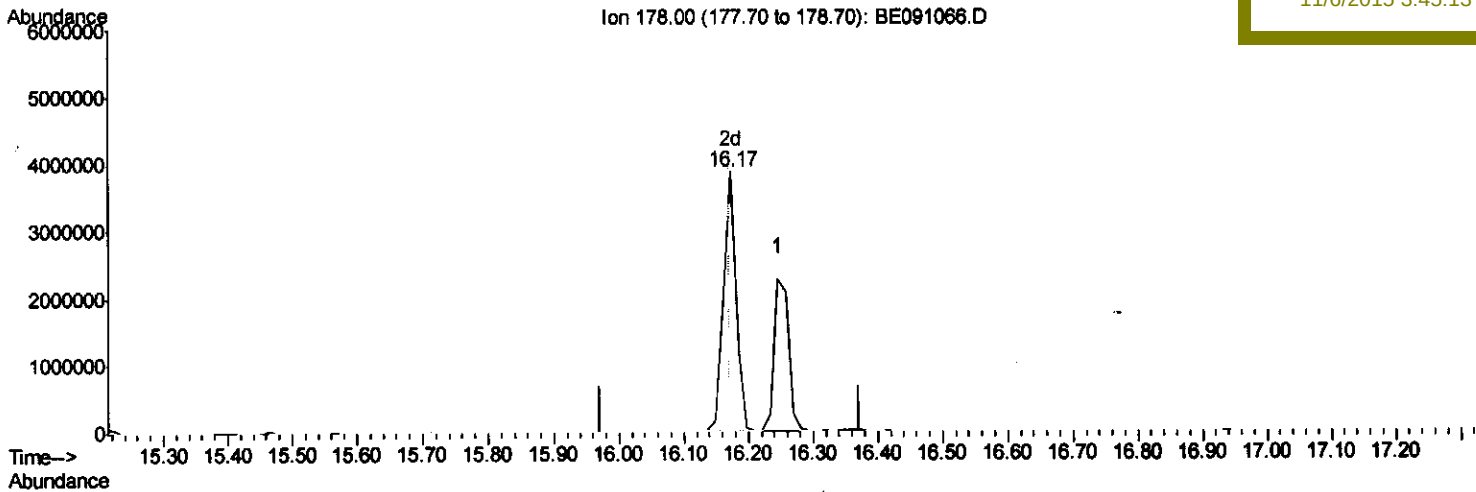
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAN8

Quant Time: Nov 06 06:03:01 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

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 11/6/2015 3:45:13 PM



(14) Phenanthrene

16.173min (+0.000) 12.82ng/ul m

response 5313201

Ion	Exp%	Act%
178.00	100	100
176.00	20.30	19.56
179.00	16.00	16.14
0.00	0.00	0.00

N.M
11/06/15

Quantitation Report (Qedit)

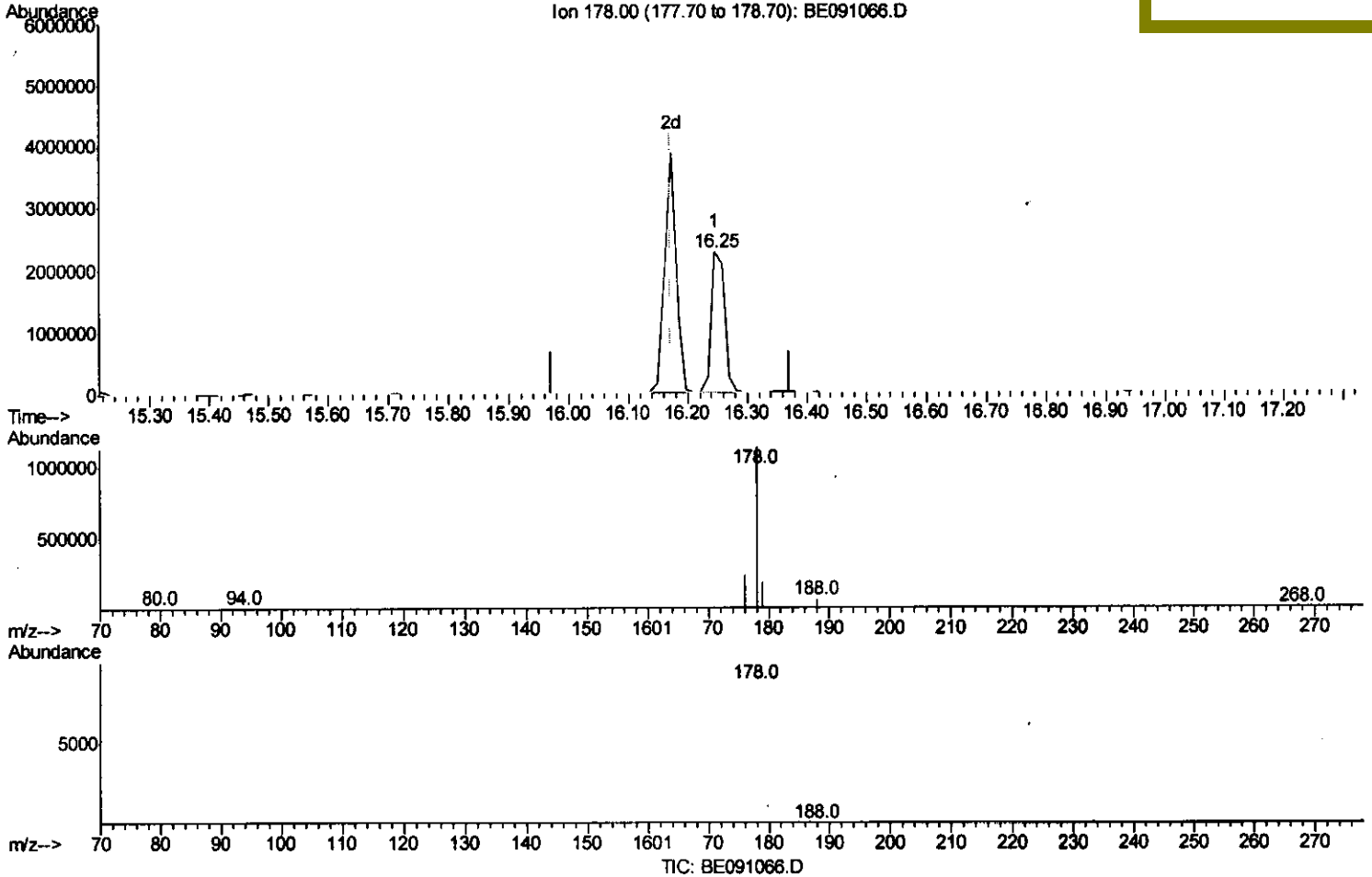
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AN8

Quant Time: Nov 06 06:03:01 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

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 11/6/2015 3:45:13 PM



(14) Phenanthrene

16.246min (+0.073) 8.61ng/ul

response 3565784

Ion	Exp%	Act%
178.00	100	100
176.00	20.30	20.74
179.00	16.00	15.94
0.00	0.00	0.00

Quantitation Report (Qedit)

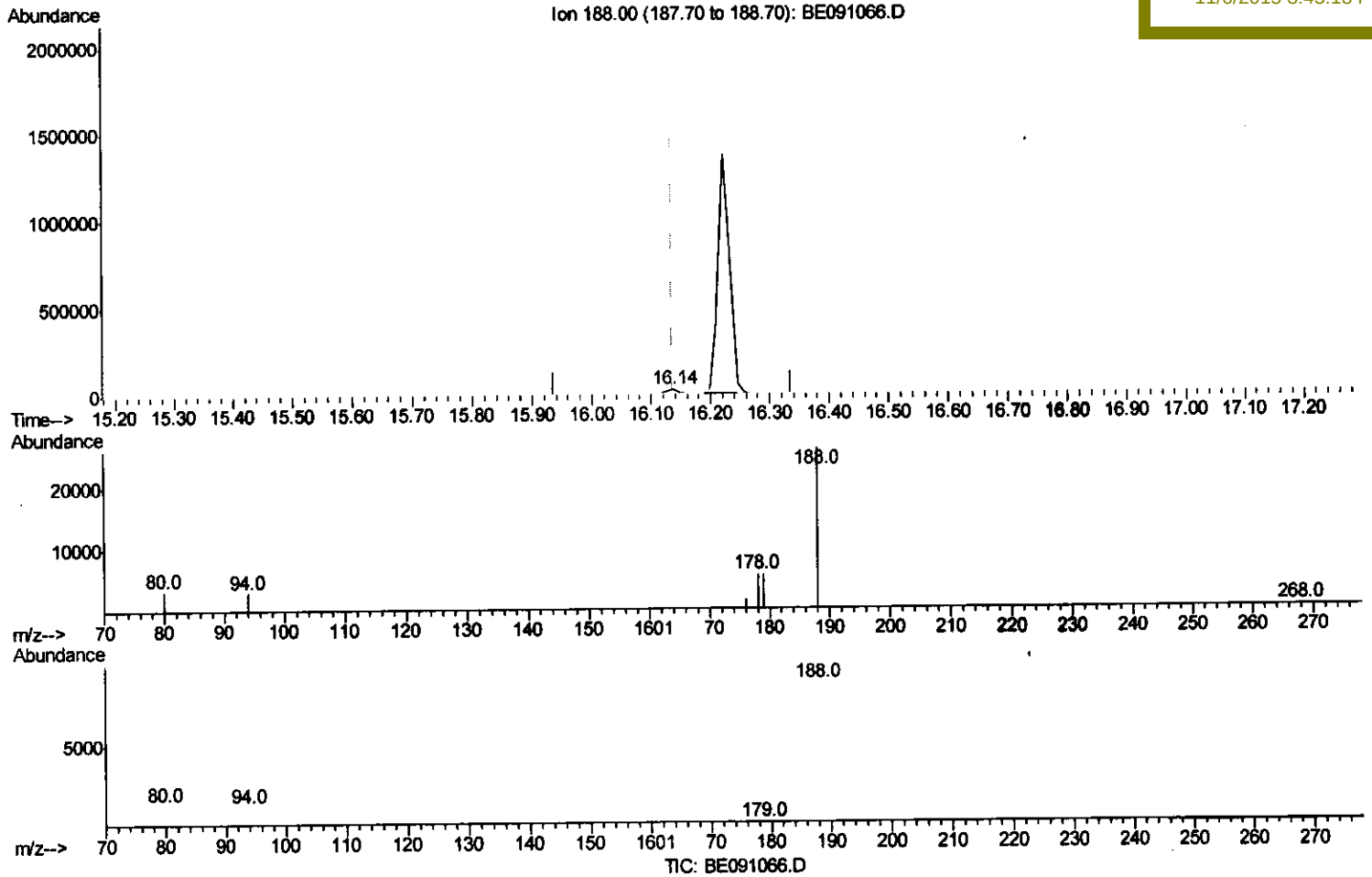
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 C0AN8

Quant Time: Nov 06 05:43:51 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 3:45:13 PM



(12) Phenanthrene-d10 (I)

16.136min (+0.000) 0.40ng/ul m

response 35880

Ion	Exp%	Act%
188.00	100	100
94.00	9.00	11.84#
80.00	8.90	12.90#
0.00	0.00	0.00

U.M
 11/06/15

Quantitation Report (Qedit)

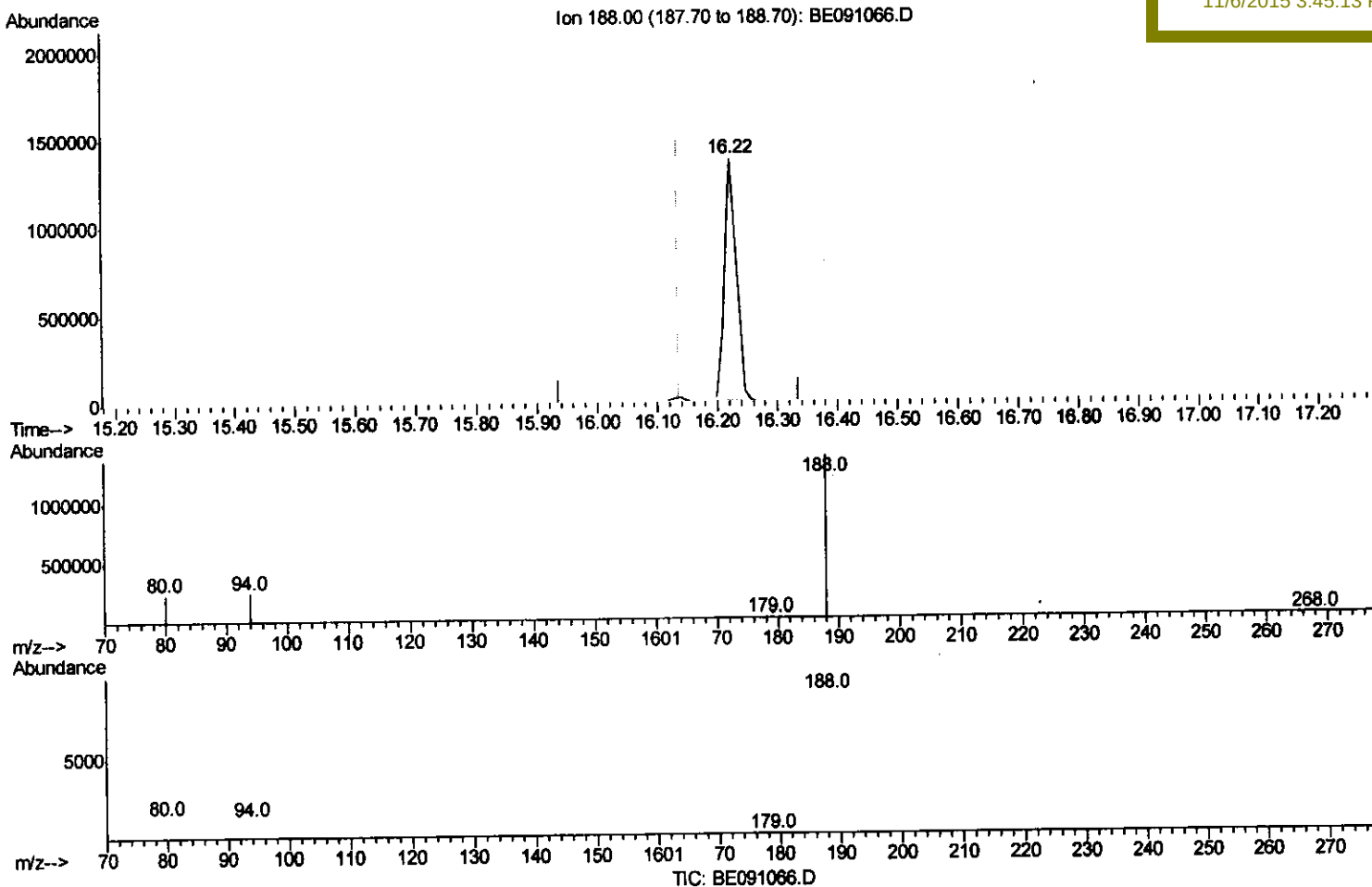
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAN8

Quant Time: Nov 06 05:43:51 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 3:45:13 PM



(12) Phenanthrene-d10 (I)

16.221min (+0.085) 0.40ng/ul

response 1942675

Ion	Exp%	Act%
188.00	100	100
94.00	9.00	17.51#
80.00	8.90	16.69#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 Client Sample ID :
 C0AN8

Quant Time: Nov 06 06:05:48 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 3:45:13 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	4567	0.40	ng/ul	0.00
4) Naphthalene-d8	9.57	136	25367	0.40	ng/ul	0.00
8) Acenaphthene-d10	13.41	164	15633	0.40	ng/ul	0.00
12) Phenanthrene-d10	16.14	188	35880m	0.40	ng/ul	0.00
18) Chrysene-d12	20.29	240	38798	0.40	ng/ul	0.00
22) Perylene-d12	22.20	264	51981m	0.40	ng/ul	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	2.92	96	26379	8.03	ng/uL	-0.03
6) 2-Methylnaphthalene-d10	11.07	152	9570	0.28	ng/ul	0.00
16) Fluoranthene-d10	18.13	212	29514	0.29	ng/ul	0.00
Target Compounds						Ovalue
5) Naphthalene	9.61	128	52584	0.84	ng/ul	99
7) 2-Methylnaphthalene	11.14	142	39541	0.97	ng/ul	99
9) Acenaphthylene	13.15	152	84840	1.09	ng/ul	98
10) Acenaphthene	13.46	153	512621	9.59	ng/ul	91
11) Fluorene	14.45	166	603221	8.78	ng/ul	94
14) Phenanthrene	16.17	178	5313201m	12.82	ng/ul	
15) Anthracene	16.25	178	3548304	9.42	ng/ul	98
17) Fluoranthene	18.16	202	11552091m	23.82	ng/ul	
19) Pyrene	18.55	202	8255770	18.73	ng/ul#	76
20) Benzo(a)anthracene	20.26	228	911735	9.15	ng/ul	97
21) Chrysene	20.32	228	805264	7.02	ng/ul	99
23) Benzo(b)fluoranthene	21.63	252	450935	2.78	ng/ul	93
24) Benzo(k)fluoranthene	21.66	252	547979m	3.29	ng/ul	
25) Benzo(a)pyrene	22.10	252	586155m	3.92	ng/ul	
26) Indeno(1,2,3-cd)pyrene	23.84	276	1109119m	1.76	ng/ul	
27) Dibenzo(a,h)anthracene	23.79	278	79328m	0.53	ng/ul	
28) Benzo(a,h,i)perylene	24.41	276	1005271m	1.52	ng/ul	

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

U.M
 11/06/15

Quantitation Report (Qedit)

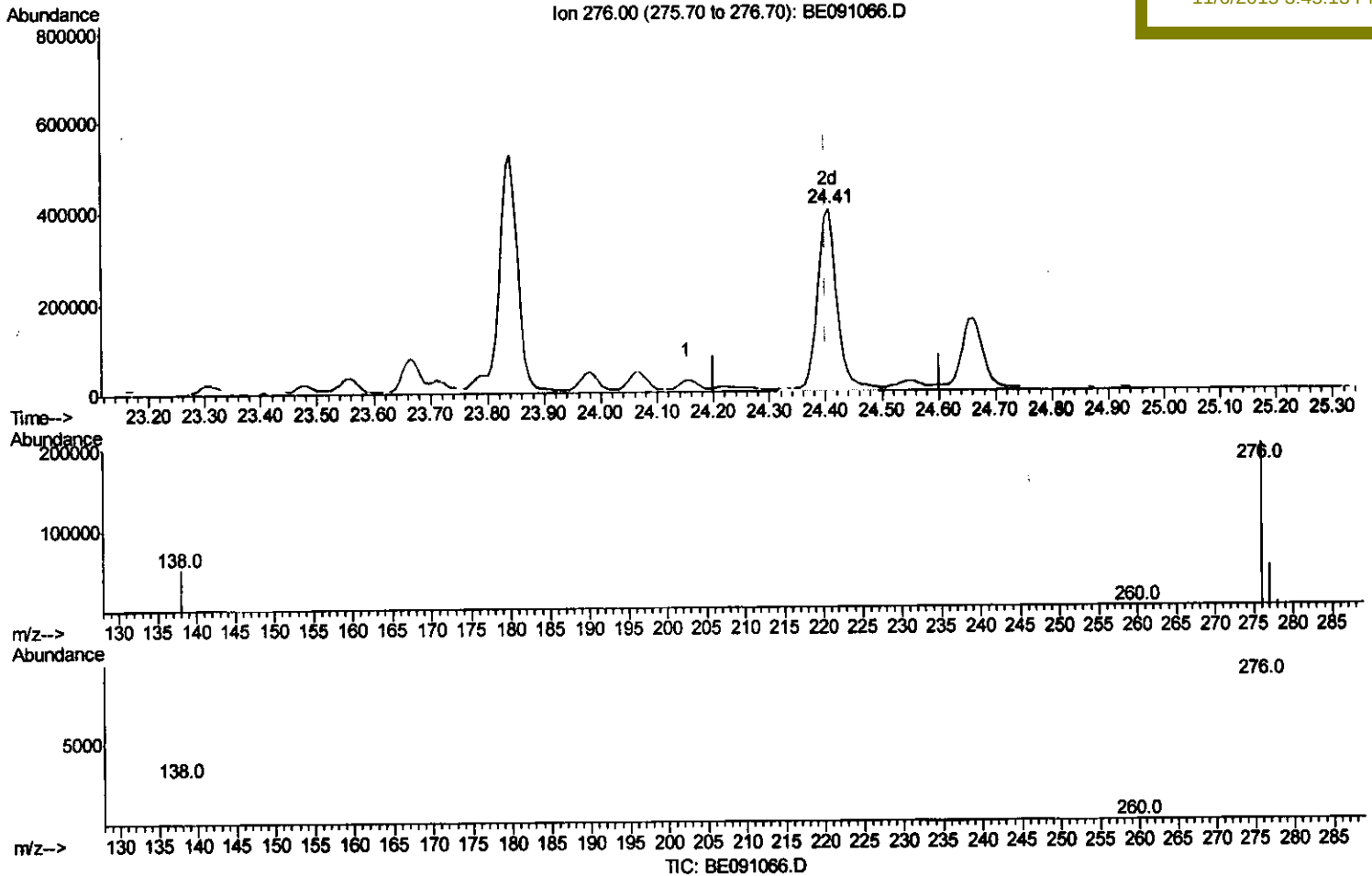
Data Path : Z:\HPCHEM1\BNA E\DATA\BE110515\
 Data File : BE091066.D
 Acq On : 5 Nov 2015 12:42
 Operator : UM/NP
 Sample : G4273-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 COAN8

Quant Time: Nov 06 06:04:00 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 3:45:13 PM



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

24.407min (+0.005) 1.52ng/ul m

response 1005271

Ion	Exp%	Act%
276.00	100	100
277.00	26.60	24.77
138.00	31.90	25.36#
0.00	0.00	0.00

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11/06/15