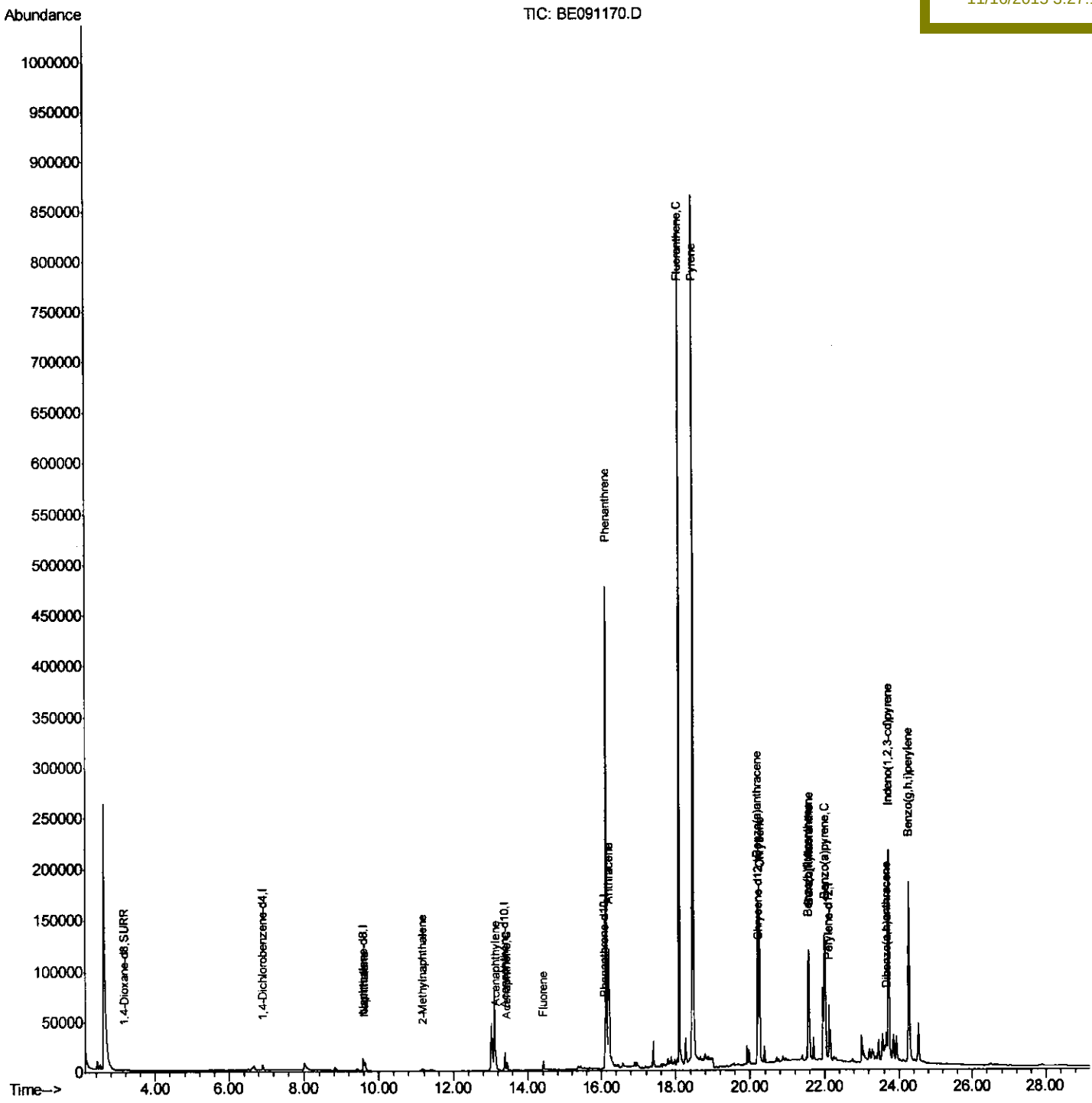
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:43:04 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



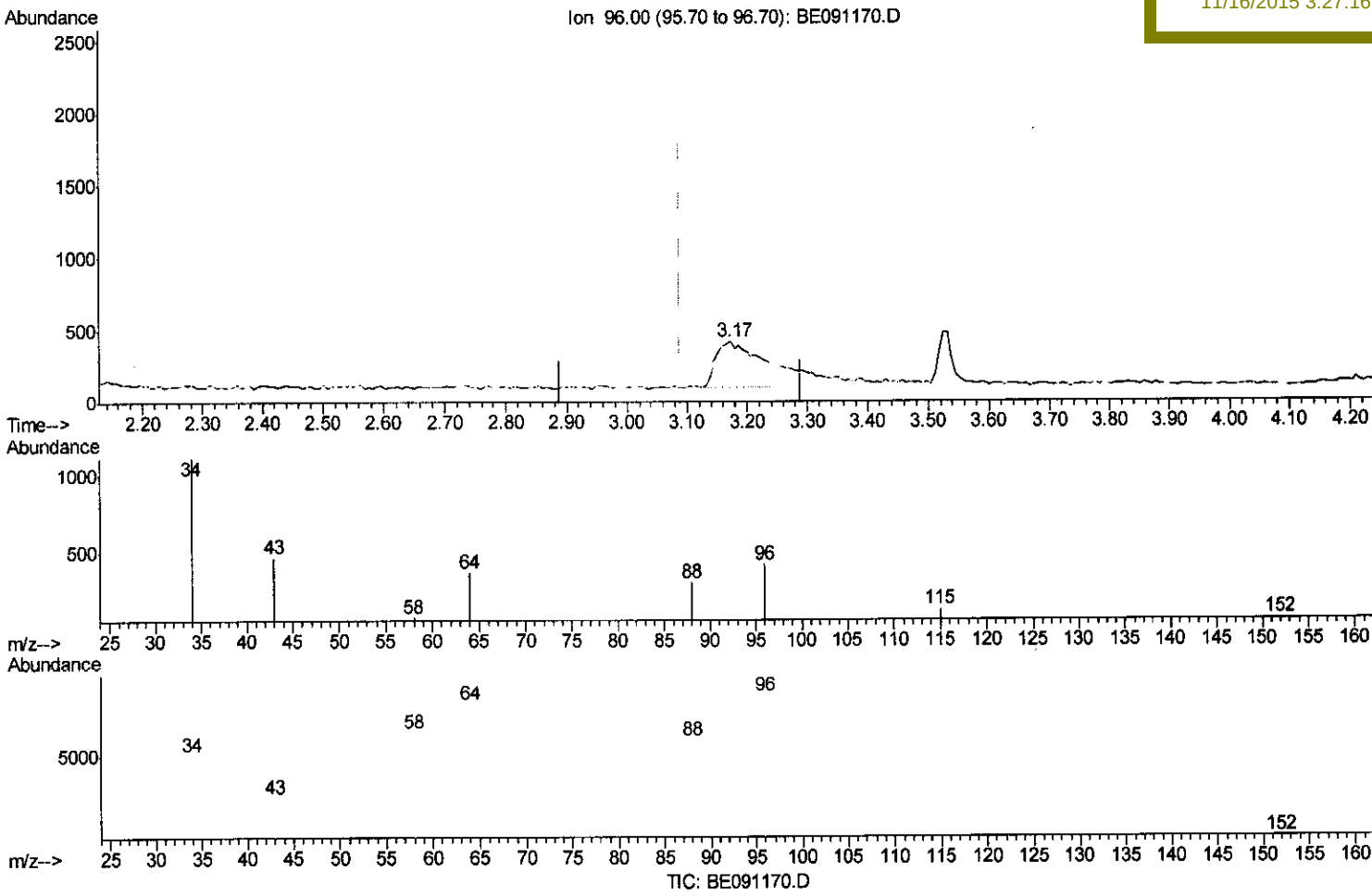
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 04:56:17 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



(2) 1,4-Dioxane-d8 (SURR)

3.172min (+0.083) 0.55ng/uL

response 1496

Ion	Exp%	Act%
96.00	100	100
64.00	30.00	0.00#
34.00	0.00	55.41#
0.00	0.00	0.00

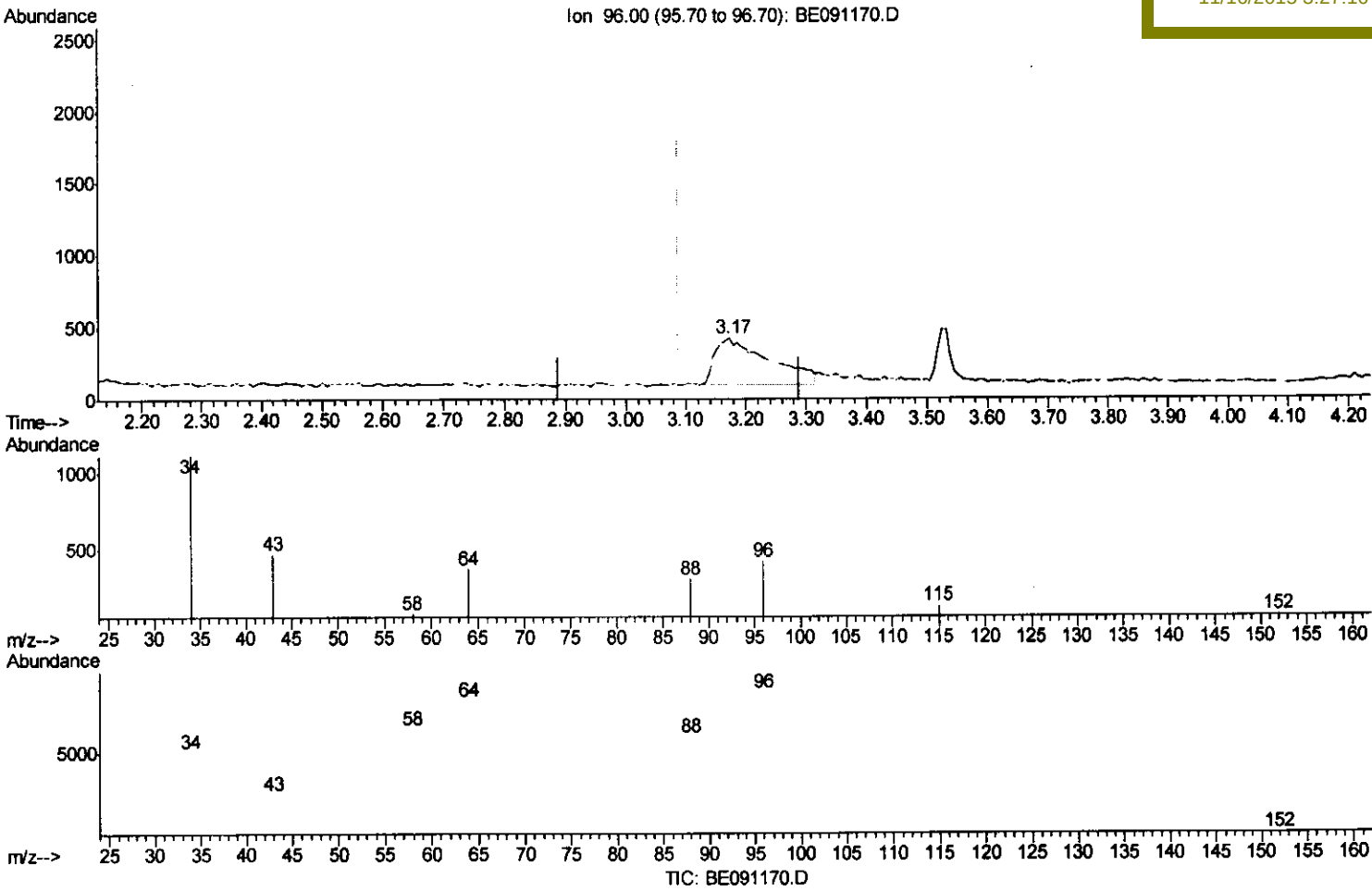
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 04:56:17 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



TIC: BE091170.D

(2) 1,4-Dioxane-d8 (SURR)

3.172min (+0.083) 0.75ng/uL m V.M 11/17/15

response 2054

Ion	Exp%	Act%
96.00	100	100
64.00	30.00	0.00#
34.00	0.00	40.36#
0.00	0.00	0.00

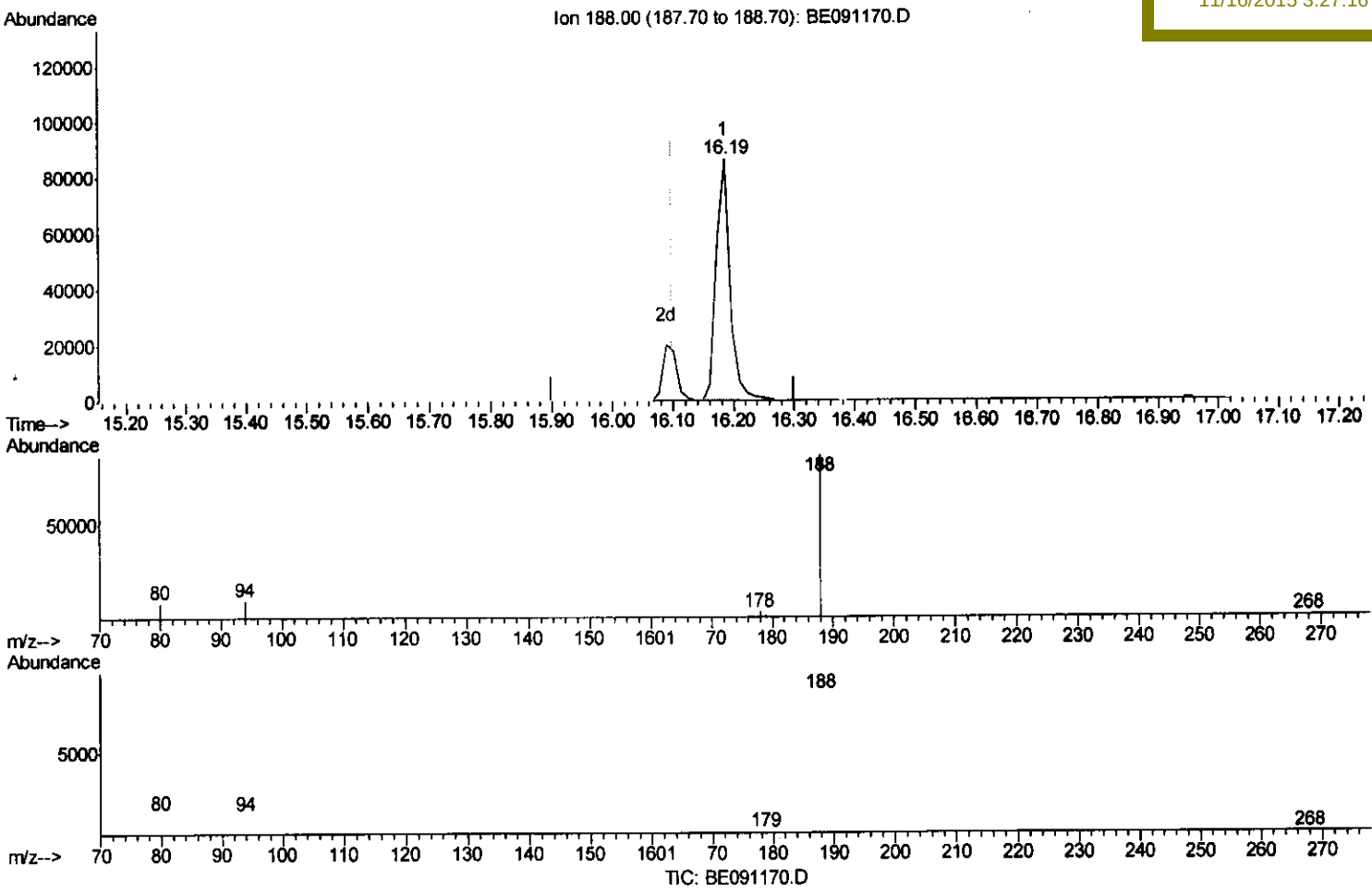
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 04:56:17 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



(12) Phenanthrene-d10 (I)

16.186min (+0.086) 0.40ng/ul

response 133905

Ion	Exp%	Act%
188.00	100	100
94.00	9.00	10.61
80.00	8.90	9.31
0.00	0.00	0.00

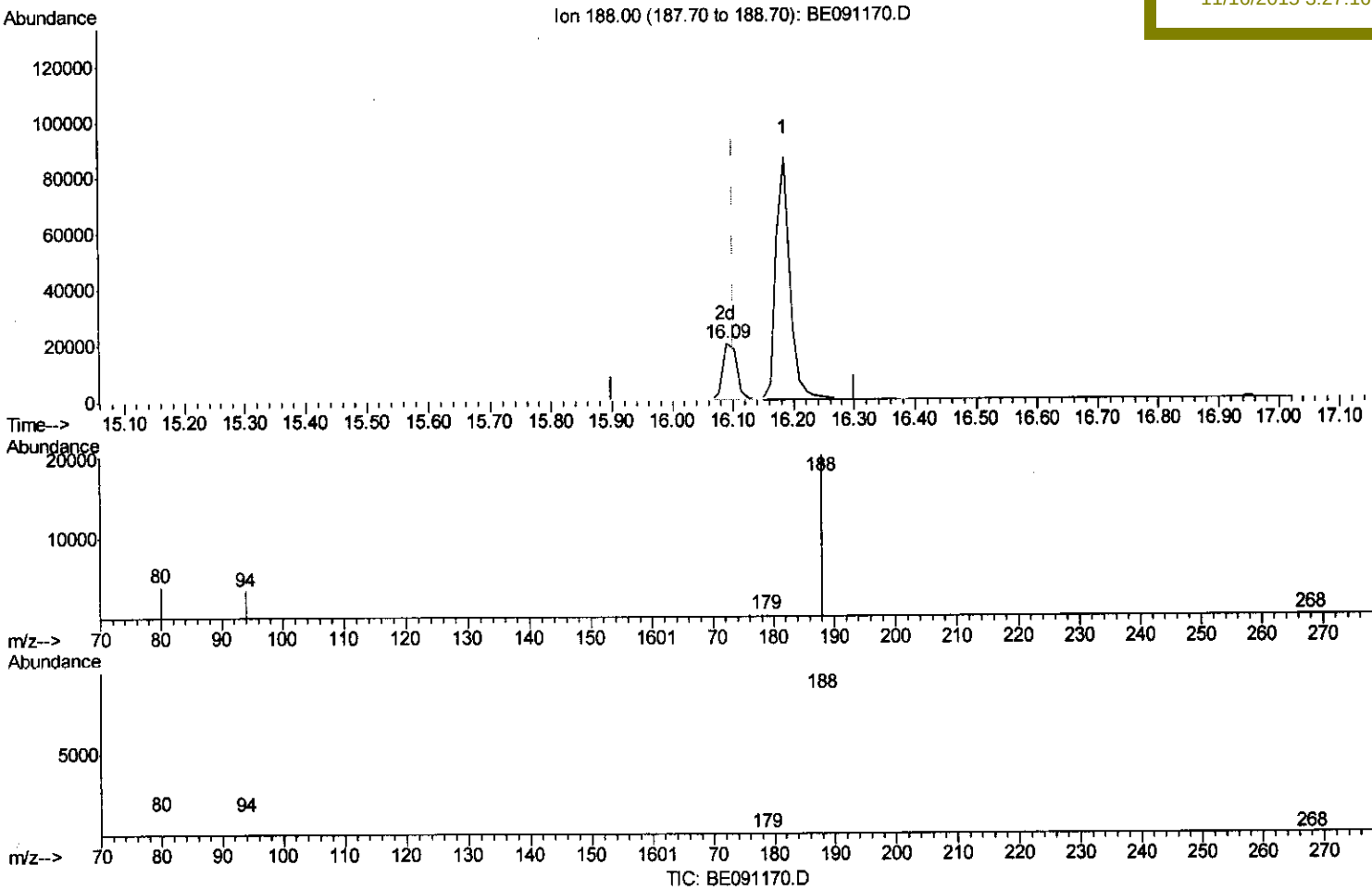
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 04:56:17 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



(12) Phenanthrene-d10 (I)

16.089min (-0.011) 0.40ng/ul m U.M 11/17/15

response 33597

Ion	Exp%	Act%
188.00	100	100
94.00	9.00	17.15#
80.00	8.90	19.51#
0.00	0.00	0.00

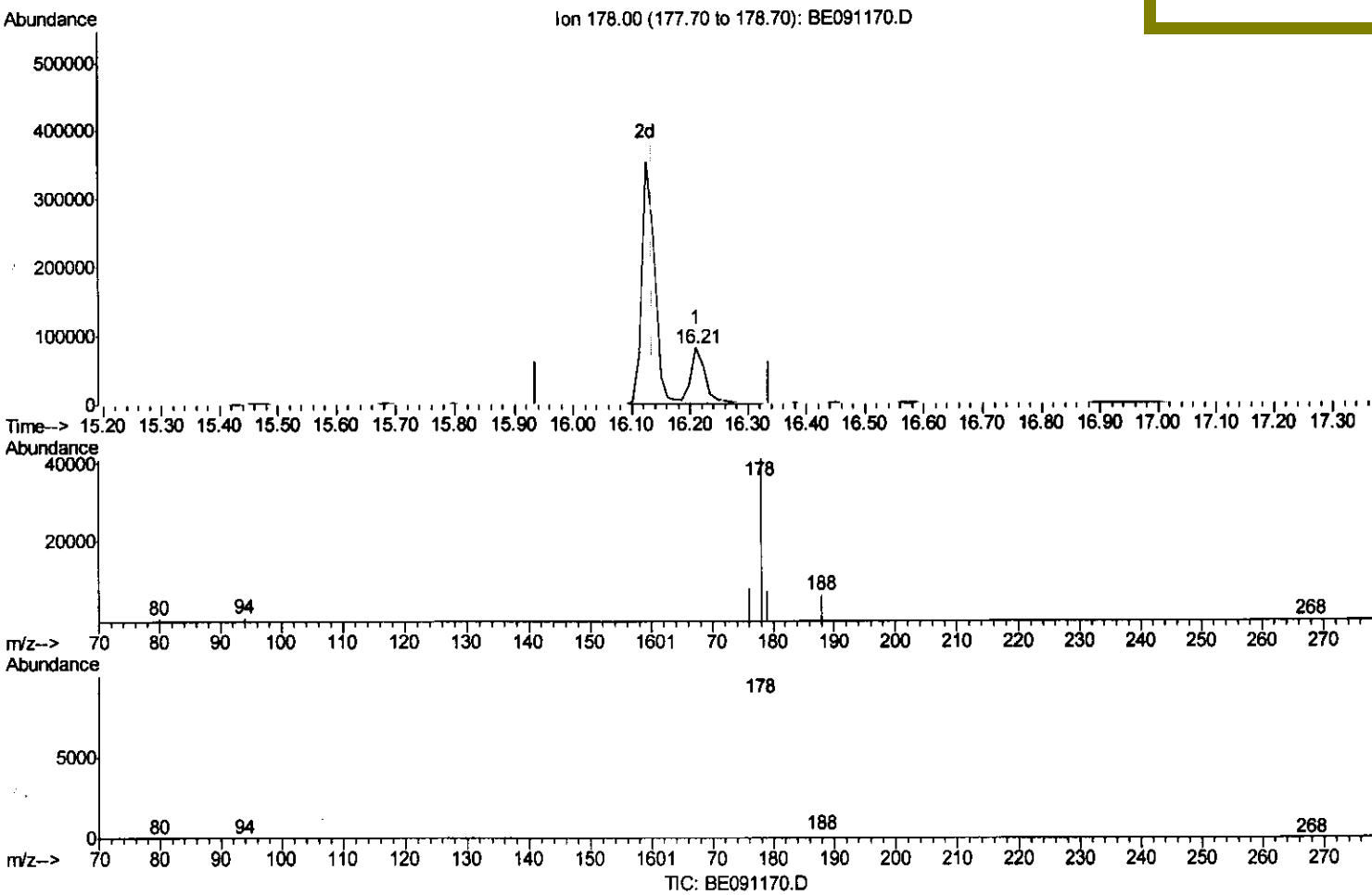
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:40:54 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



TIC: BE091170.D

(14) Phenanthrene

16.210min (+0.074) 0.36ng/ul

response 140826

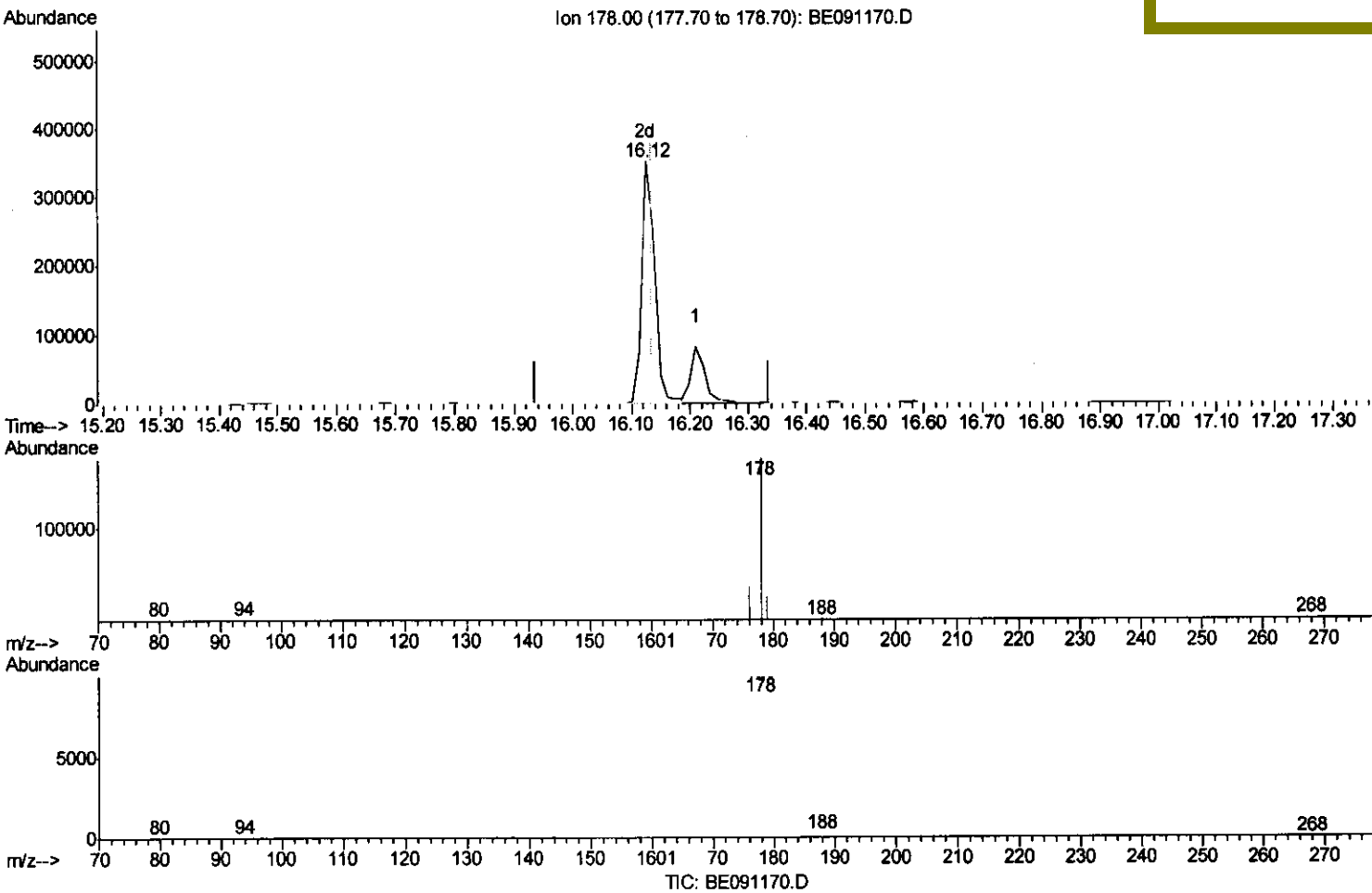
Ion	Exp%	Act%
178.00	100	100
176.00	20.30	20.28
179.00	16.00	18.65
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:40:54 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



TIC: BE091170.D

(14) Phenanthrene

16.125min (-0.011) 1.39ng/ul m U.M 11/17/15

response 539942

Ion	Exp%	Act%
178.00	100	100
176.00	20.30	20.66
179.00	16.00	14.44
0.00	0.00	0.00

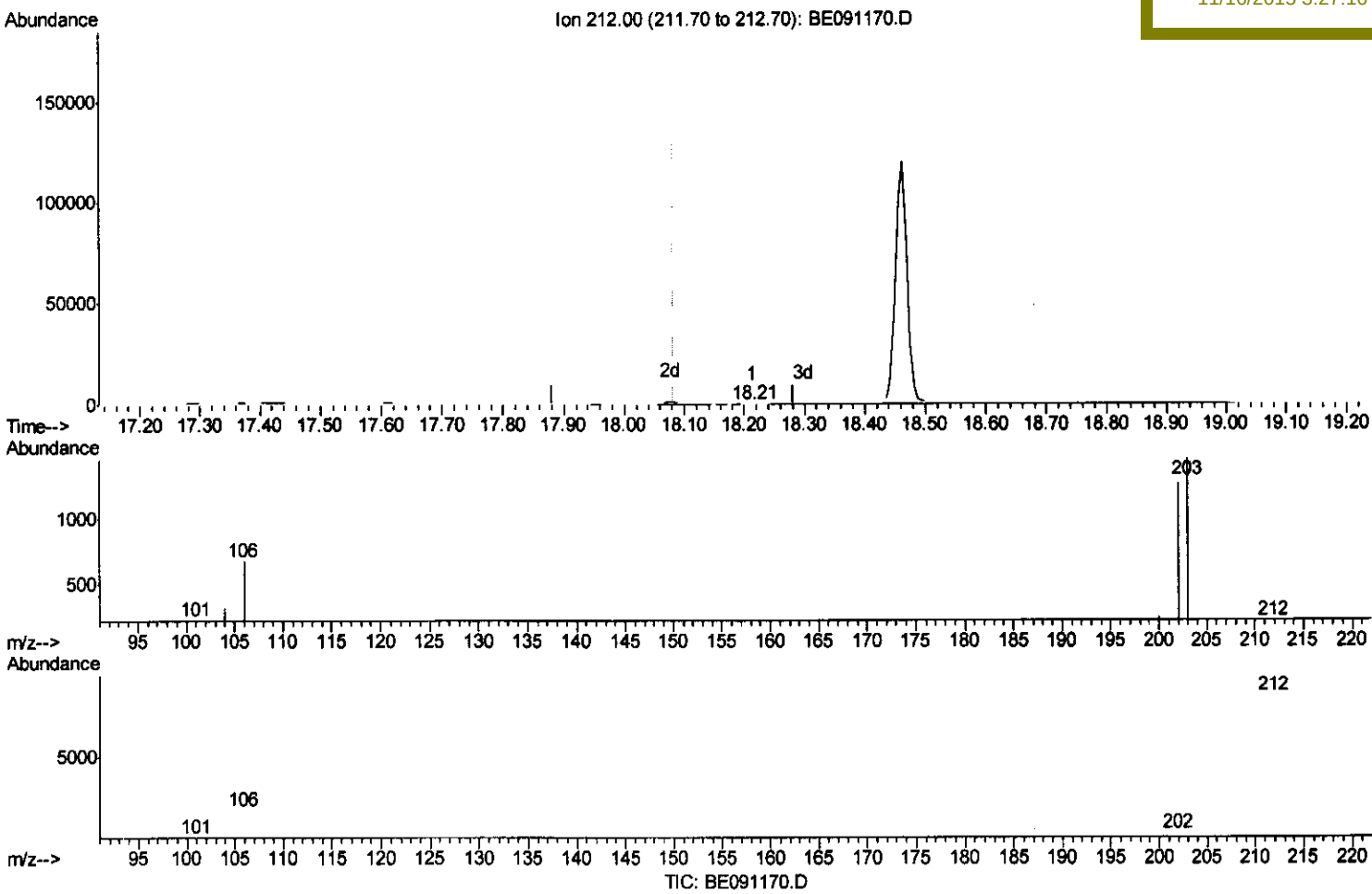
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:40:54 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



(16) Fluoranthene-d10 (SURR)

18.214min (+0.132) 0.00ng/ul

response 61

Ion	Exp%	Act%
212.00	100	100
106.00	18.30	136.07#
104.00	10.80	0.00#
0.00	0.00	0.00

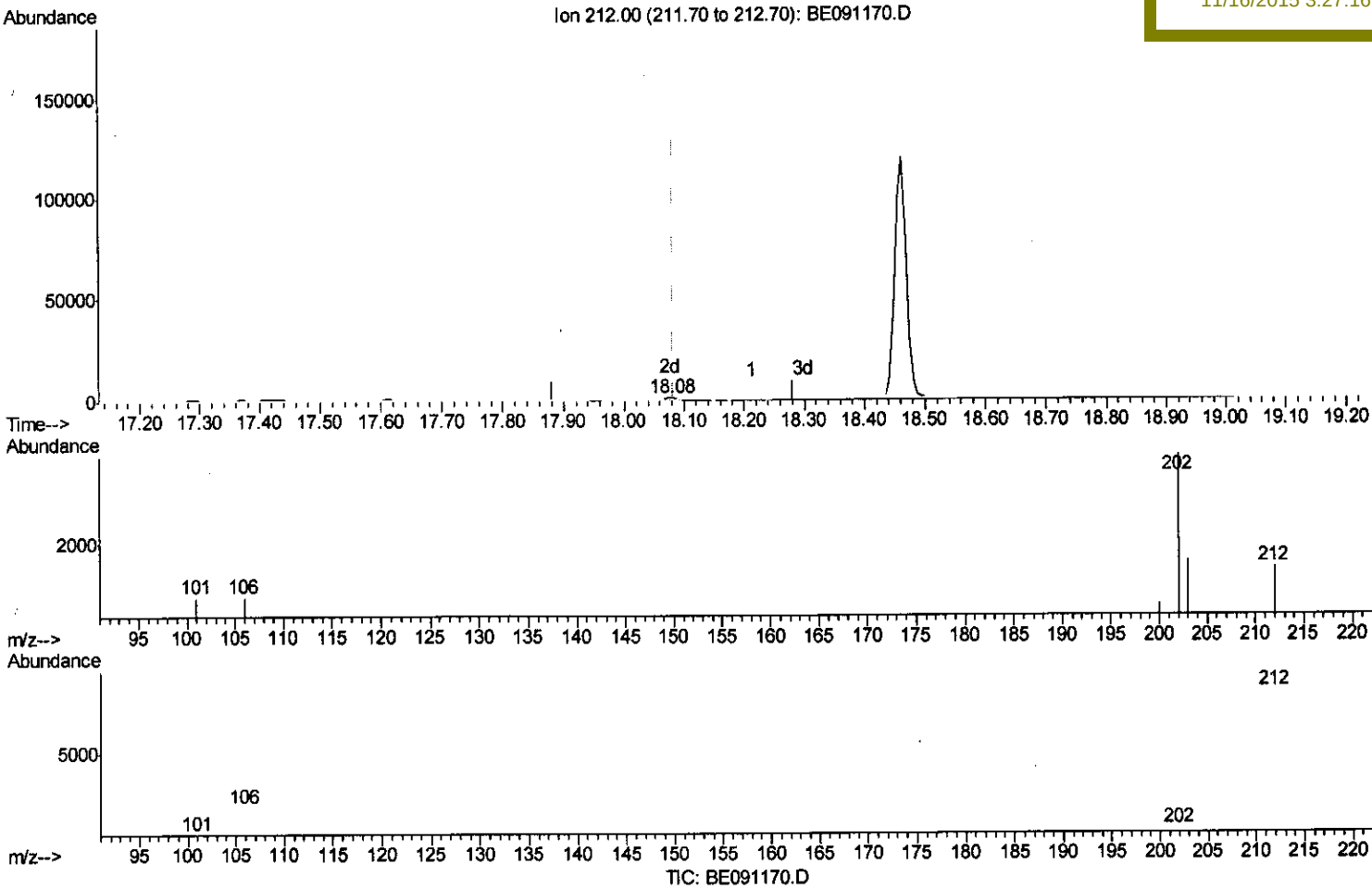
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:40:54 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



(16) Fluoranthene-d10 (SURR)

18.077min (-0.005) 0.02ng/ul m U.M 11/17/15

response 1718

Ion	Exp%	Act%
212.00	100	100
106.00	18.30	4.83#
104.00	10.80	0.00#
0.00	0.00	0.00

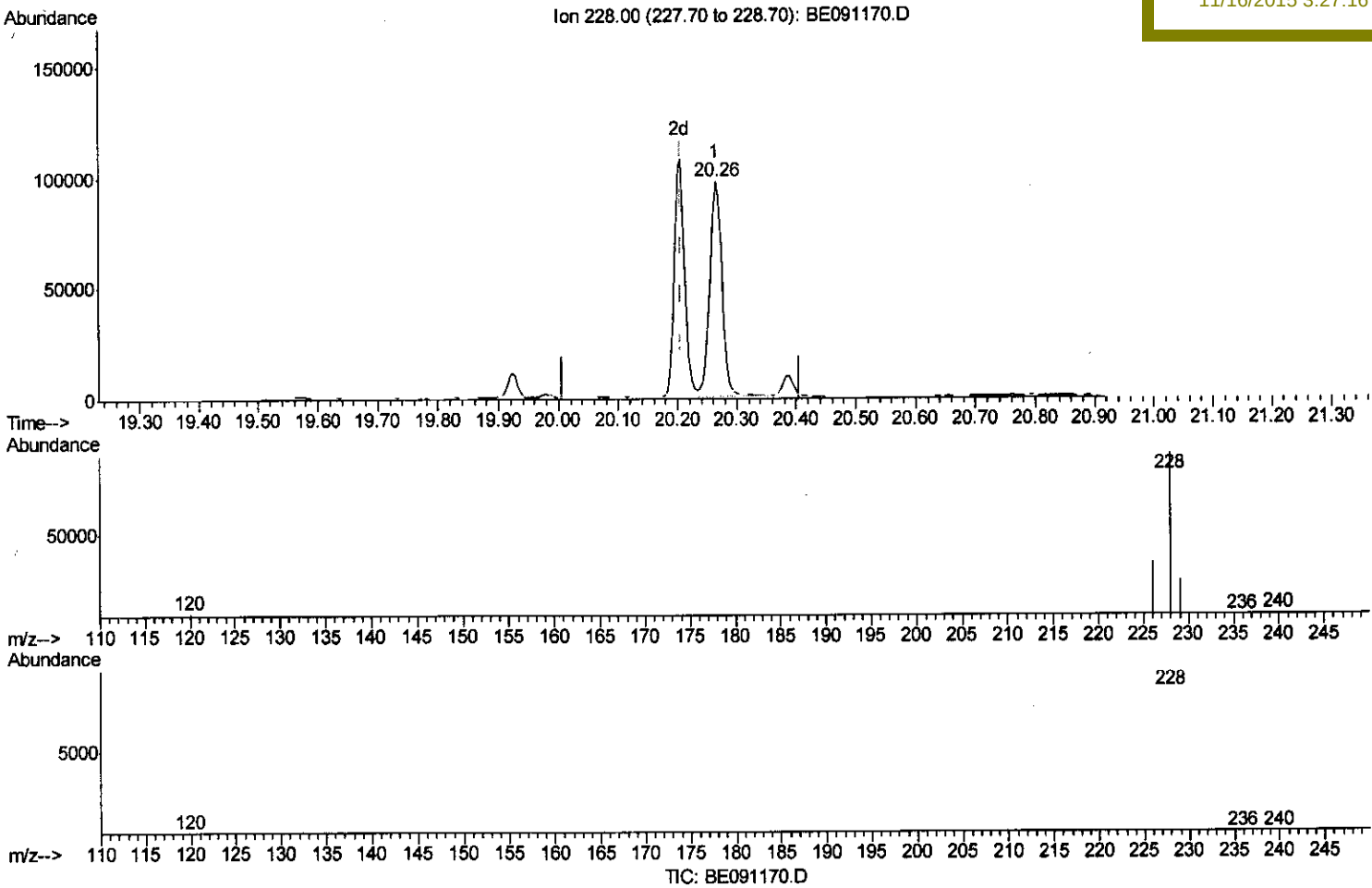
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:40:54 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



(20) Benzo(a)anthracene

20.265min (+0.058) 0.86ng/ul

response 136974

Ion	Exp%	Act%
228.00	100	100
226.00	28.70	32.82
229.00	19.00	21.69
0.00	0.00	0.00

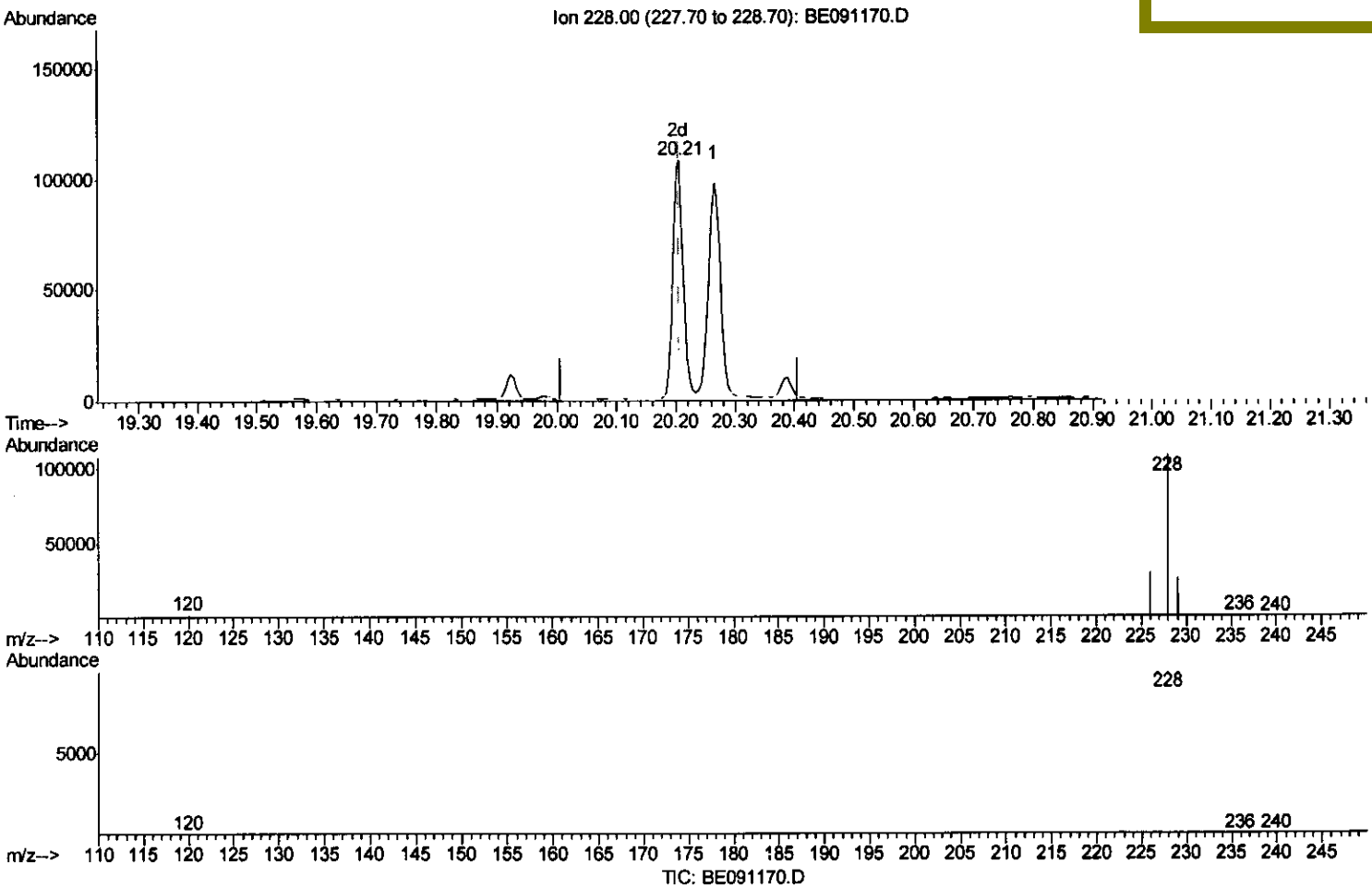
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:40:54 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



(20) Benzo(a)anthracene

20.205min (-0.001) 0.83ng/ul m U.M 11/17/15

response 132115

Ion	Exp%	Act%
228.00	100	100
226.00	28.70	26.93
229.00	19.00	23.72#
0.00	0.00	0.00

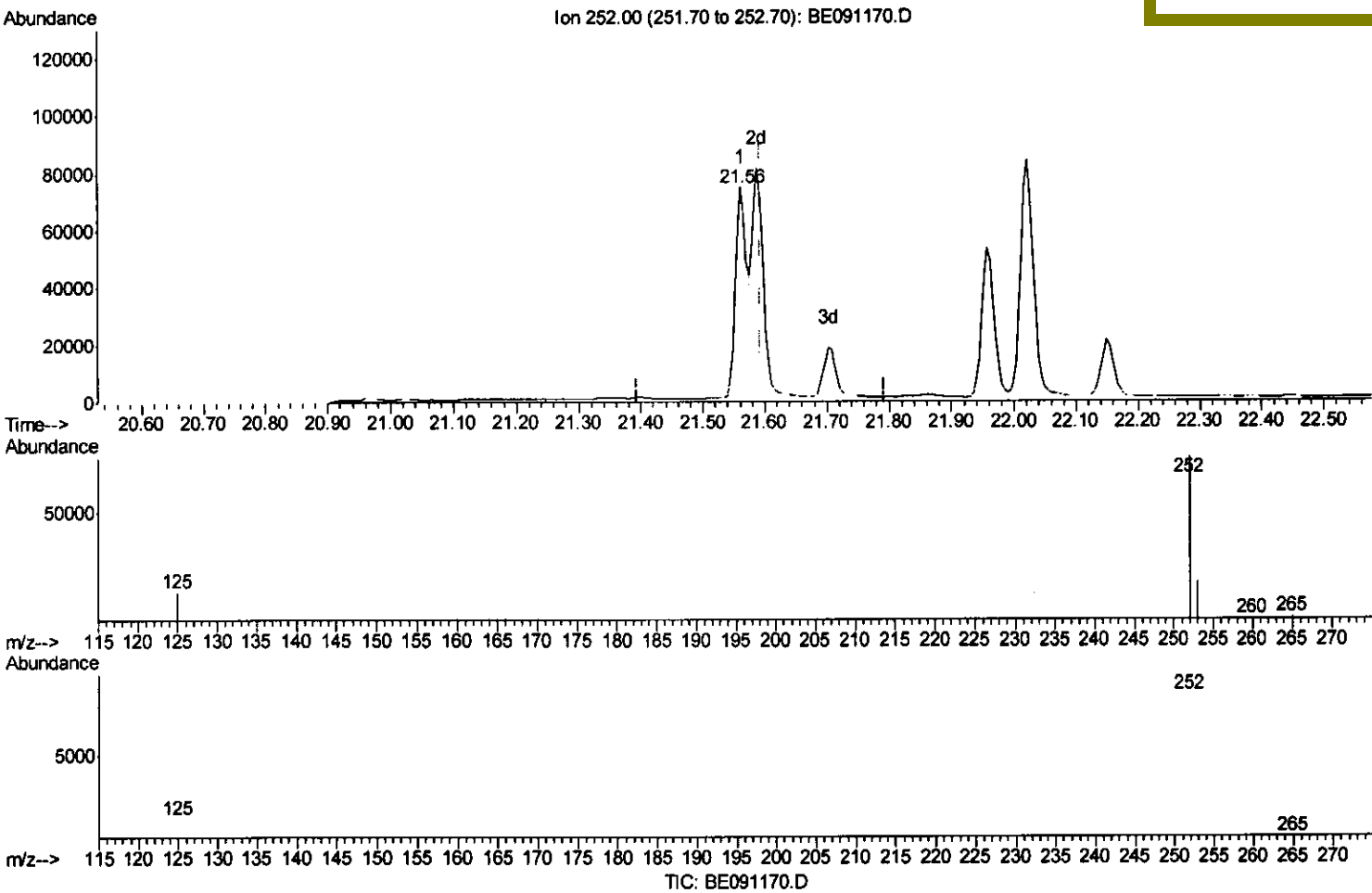
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:40:54 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



(24) Benzo(k)fluoranthene

21.561min (-0.033) 0.53ng/ul

response 94822

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	23.98
125.00	15.30	17.92
0.00	0.00	0.00

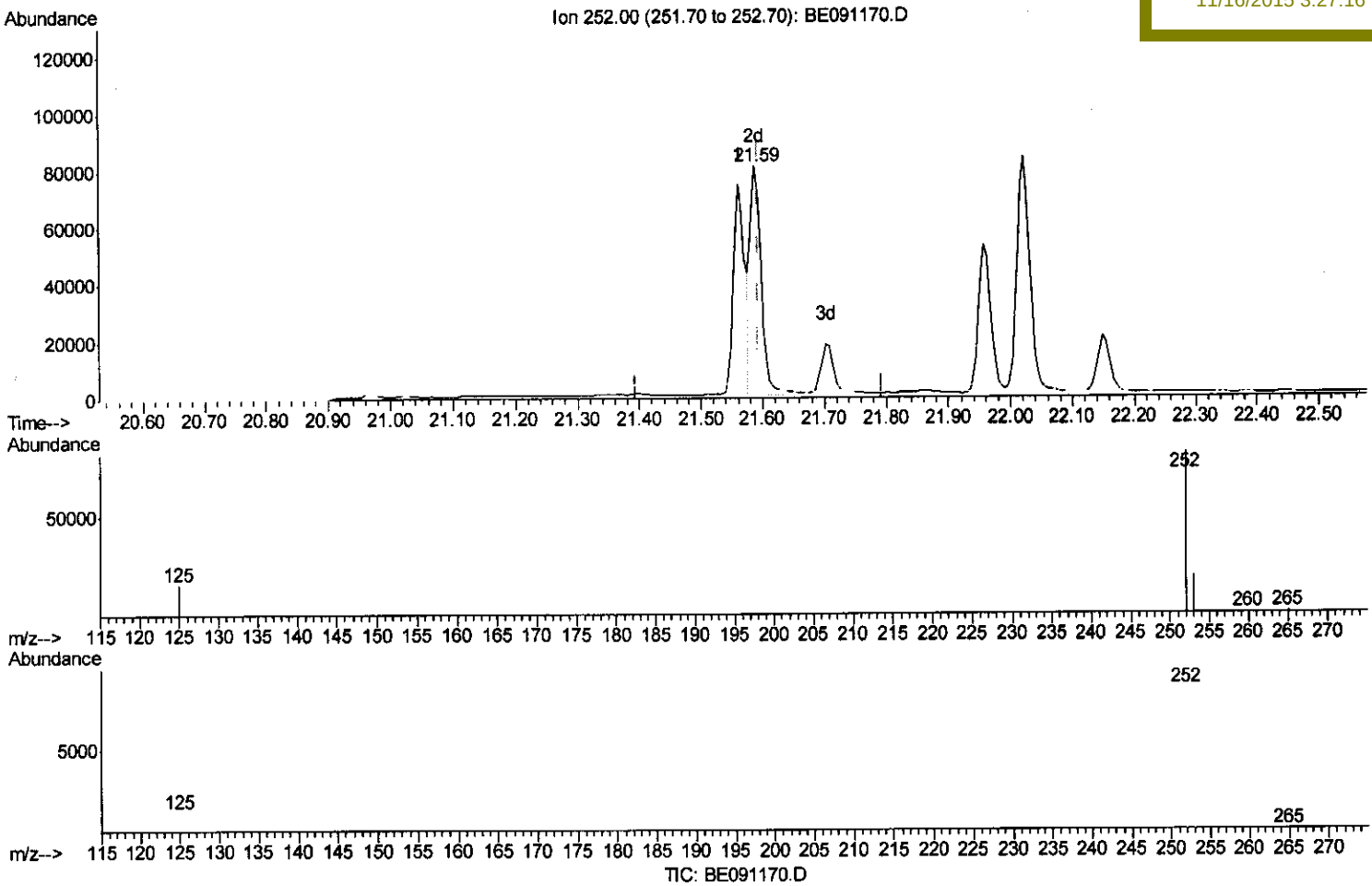
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:40:54 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM



(24) Benzo(k)fluoranthene

21.589min (-0.005) 0.56ng/ul m U,M 11/17/15

response 99748

Ion	Exp%	Act%
252.00	100	100
253.00	26.00	23.84
125.00	15.30	19.46#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_E\Data\BE111515\
Data File : BE091170.D
Acq On : 15 Nov 2015 13:26
Operator : UM/NP
Sample : G4322-11DL 5X
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 16 06:43:04 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 : Mon Nov 16 04:54:02 2015
Response via : Initial Calibration

Instrument : BNA_E
ClientSampleId : A4HS2DL

Manual Integrations APPROVED
mmdadoda
11/16/2015 3:27:16 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.91	152	3802	0.40	ng/ul	-0.03
4) Naphthalene-d8	9.58	136	19551	0.40	ng/ul	0.00
8) Acenaphthene-d10	13.39	164	12273	0.40	ng/ul	0.00
12) Phenanthrene-d10	16.09	188	33597m	0.40	ng/ul	-0.01
18) Chrysene-d12	20.23	240	62345	0.40	ng/ul	0.00
22) Perylene-d12	22.12	264	56074	0.40	ng/ul	0.00
System Monitoring Compounds						
2) 1,4-Dioxane-d8	3.17	96	2054m	0.75	ng/uL	0.08
6) 2-Methylnaphthalene-d10	11.10	152	594	0.02	ng/ul	0.00
16) Fluoranthene-d10	18.08	212	1718m	0.02	ng/ul	0.00
Target Compounds						Qvalue
5) Naphthalene	9.62	128	14031	0.29	ng/ul	99
7) 2-Methylnaphthalene	11.17	142	3597	0.11	ng/ul	99
9) Acenaphthylene	13.13	152	5526	0.09	ng/ul	98
10) Acenaphthene	13.44	153	5105	0.12	ng/ul	89
11) Fluorene	14.42	166	6835	0.13	ng/ul#	92
14) Phenanthrene	16.12	178	539942m	1.39	ng/ul	
15) Anthracene	16.21	178	141283	0.40	ng/ul	97
17) Fluoranthene	18.10	202	903813	1.99	ng/ul	89
19) Pyrene	18.49	202	901822	1.27	ng/ul#	77
20) Benzo(a)anthracene	20.21	228	132115m	0.83	ng/ul	
21) Chrysene	20.26	228	138706	0.75	ng/ul	97
23) Benzo(b)fluoranthene	21.56	252	94822	0.54	ng/ul	100
24) Benzo(k)fluoranthene	21.59	252	99748m	0.56	ng/ul	
25) Benzo(a)pyrene	22.02	252	120015	0.74	ng/ul	94
26) Indeno(1,2,3-cd)pyrene	23.73	276	271725	0.40	ng/ul#	89
27) Dibenzo(a,h)anthracene	23.68	278	22847	0.14	ng/ul#	69
28) Benzo(g,h,i)perylene	24.28	276	289167	0.41	ng/ul	94

U.M 11/17/15

U.M 11/17/15

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