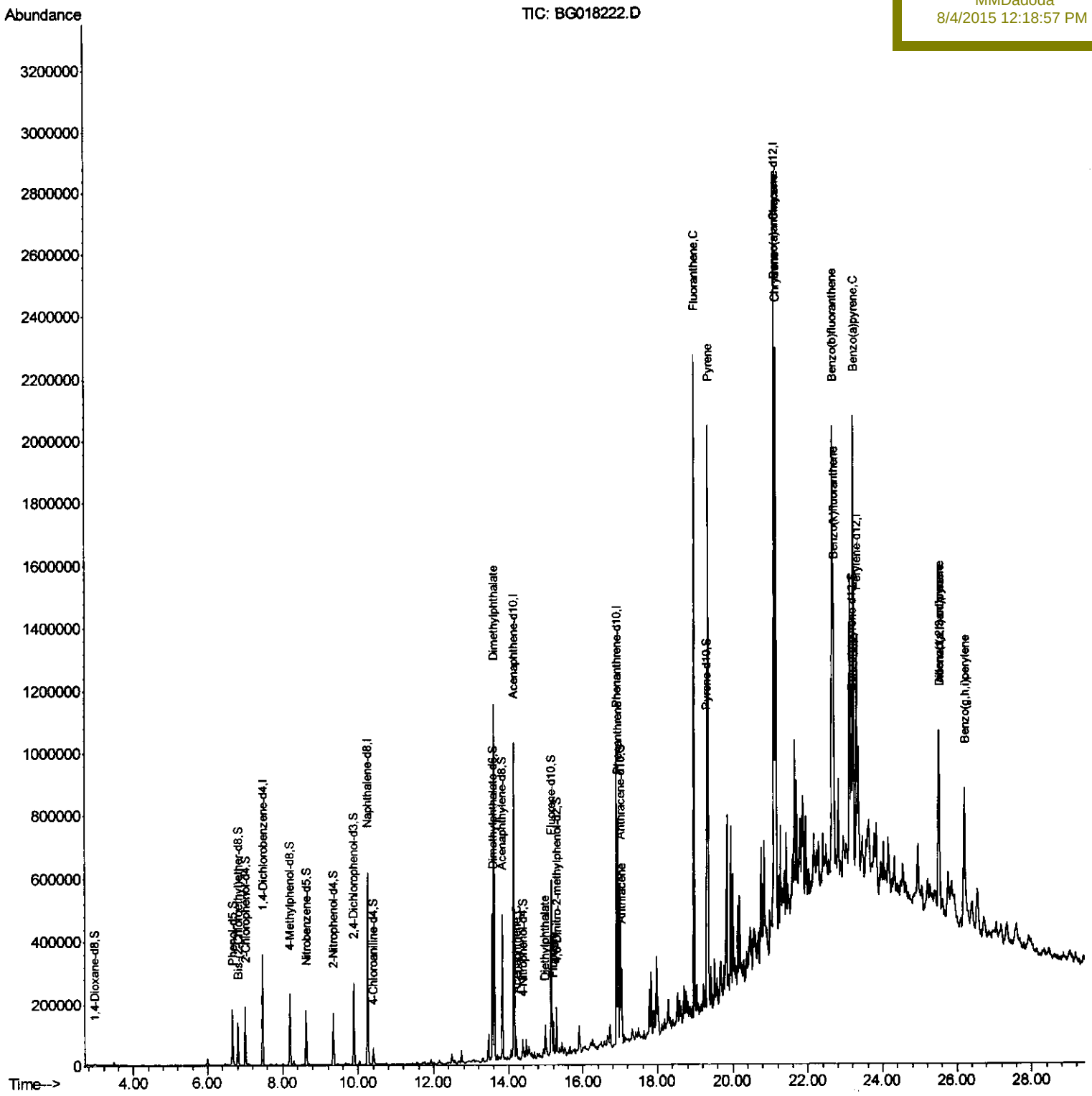
Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM

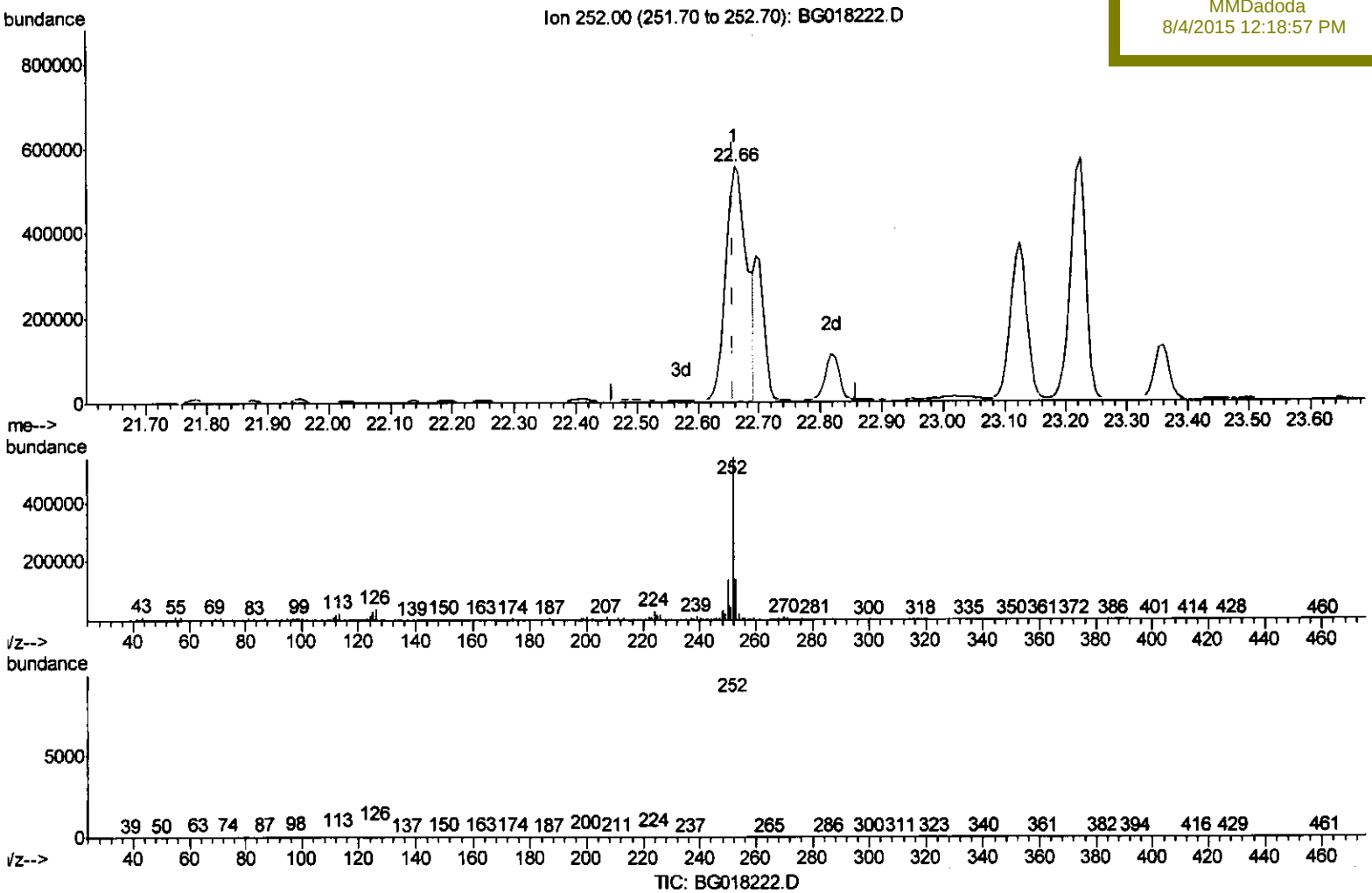


Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 12 04:41:42 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 09:29:11 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(89) Benzo(k)fluoranthene

22.660min (+0.001) 43.69ng/ul

response 1323346

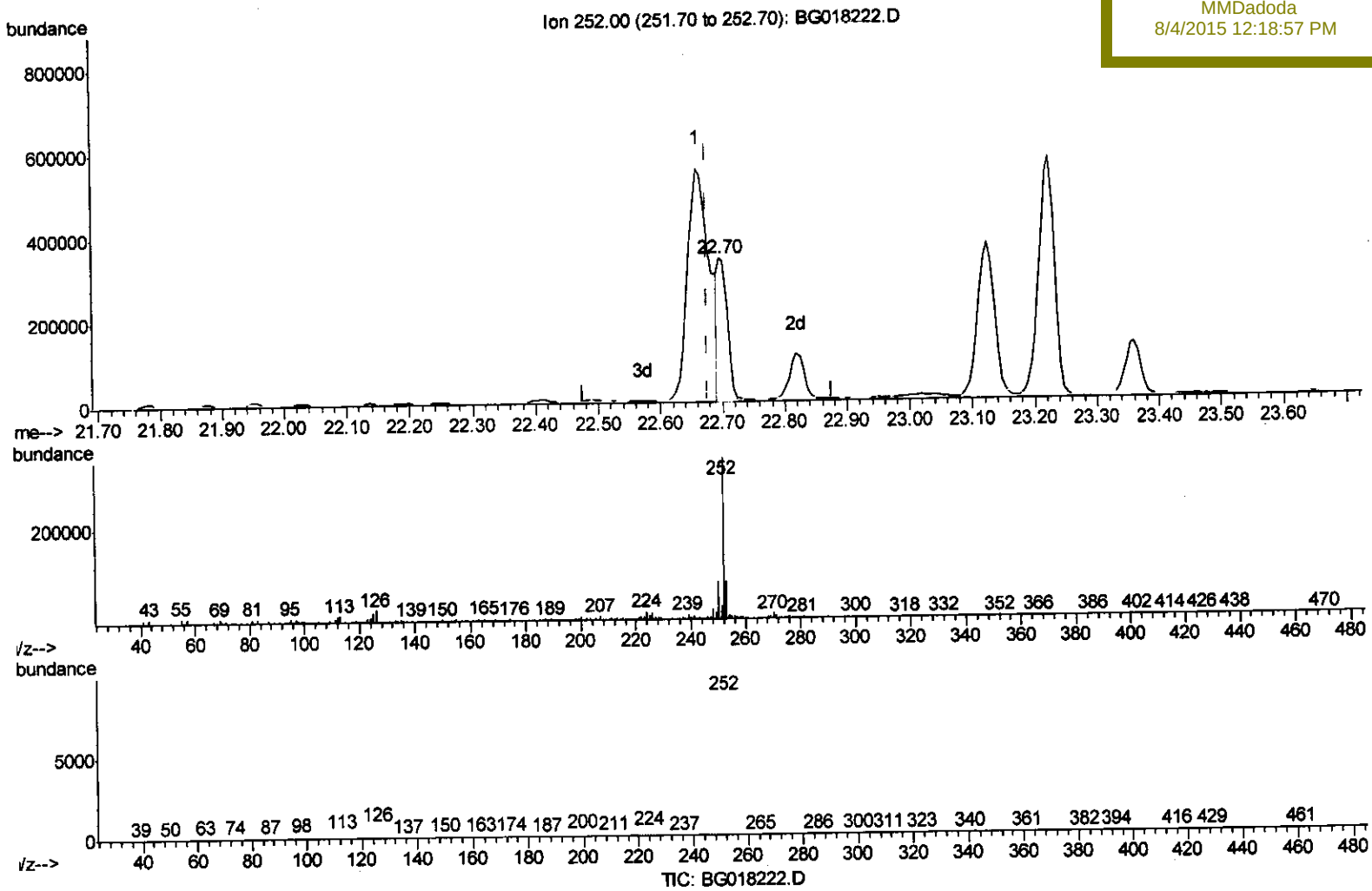
Ion	Exp%	Act%
252.00	100	100
253.00	22.70	24.71
125.00	9.40	5.45#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(89) Benzo(k)fluoranthene
22.695min (+0.019) 12.24ng/ul m
response 370695

U. M 08/11/15

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	23.71
125.00	9.40	5.70#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 12 04:41:42 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 09:29:11 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
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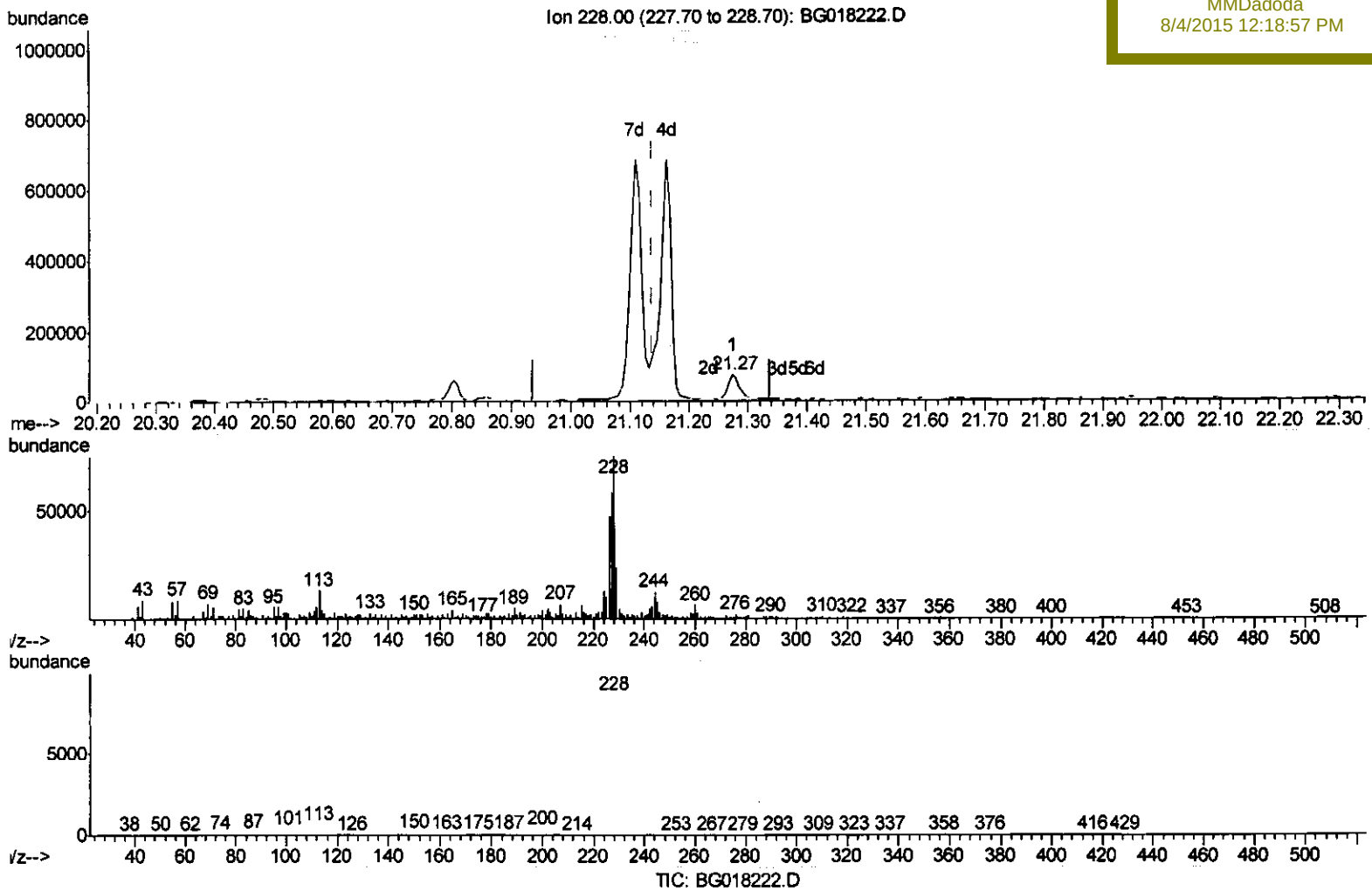

(85) Chrysene

21.273min (+0.136) 1690.75ng/ul

response 104838

Ion	Exp%	Act%
228.00	100	100
226.00	28.40	62.94#
229.00	20.20	31.36#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
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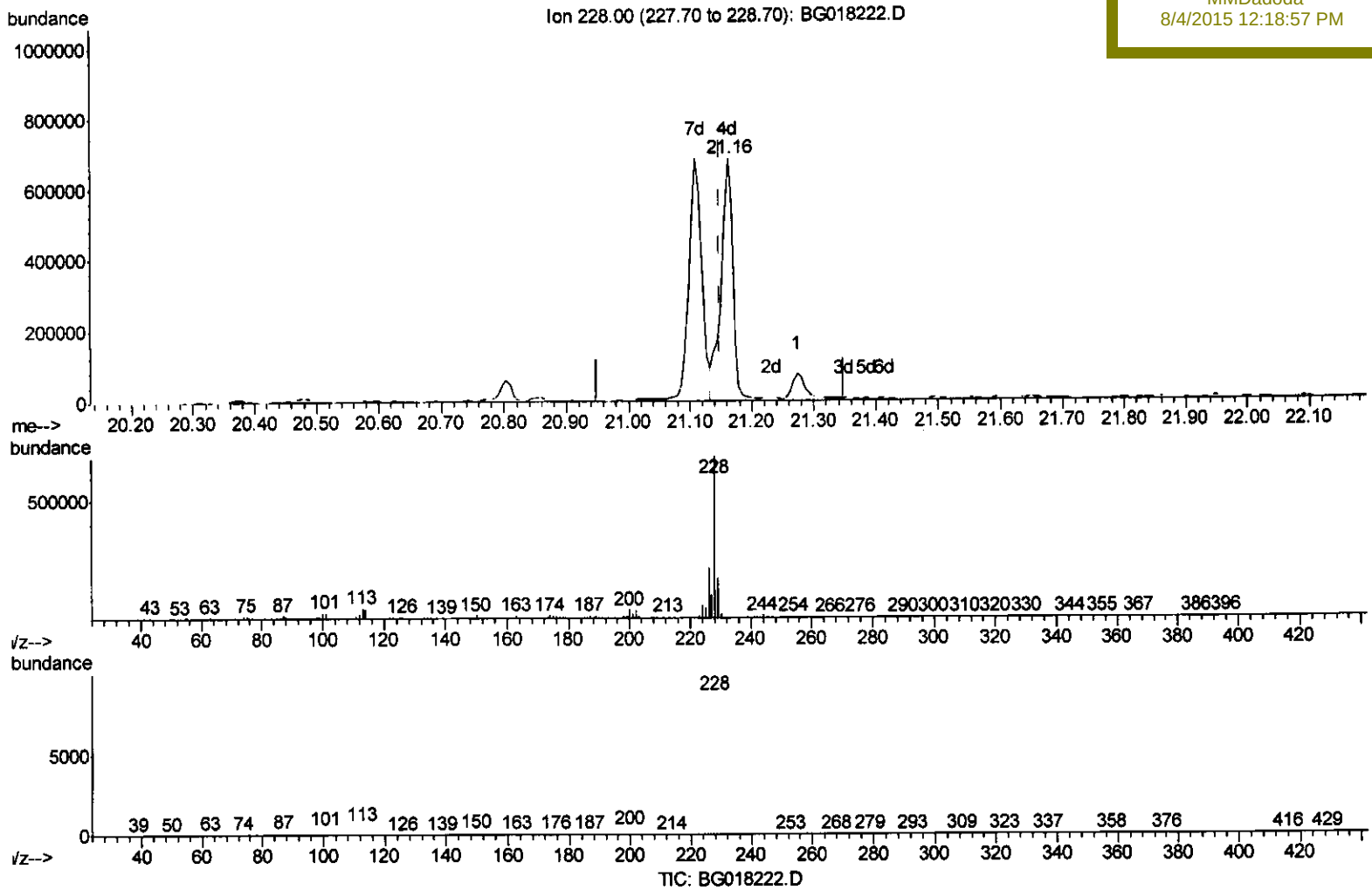


(85) Chrysene

21.162min (+0.013) 32.21ng/ul m

response 887412

U.M 08/11/15

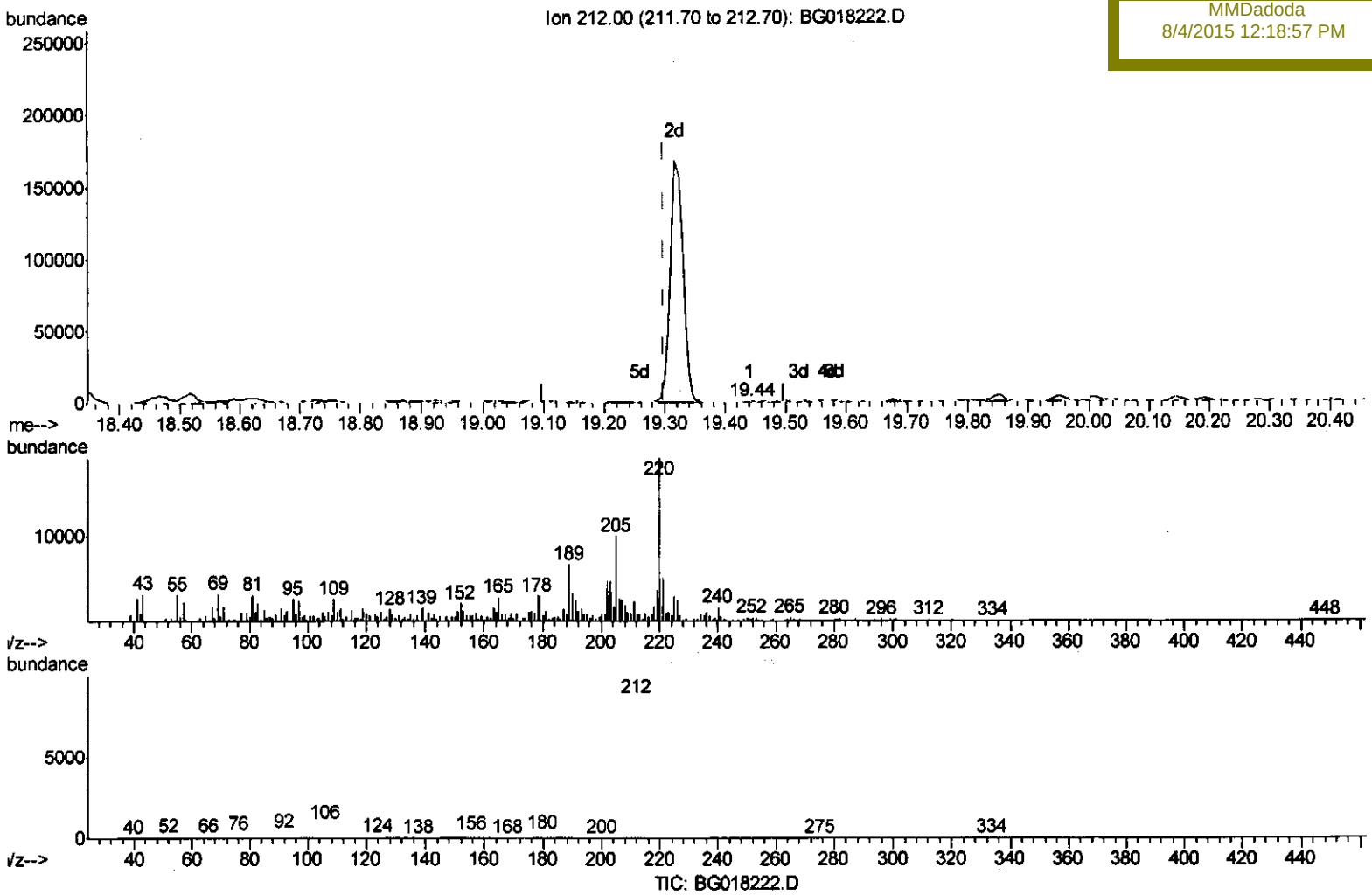
Ion	Exp%	Act%
228.00	100	100
226.00	28.40	30.87
229.00	20.20	24.85#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BC018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 12 04:41:42 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 09:29:11 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(79) Pyrene-d10 (S)

19.440min (+0.142) 5.13ng/ul

response 312

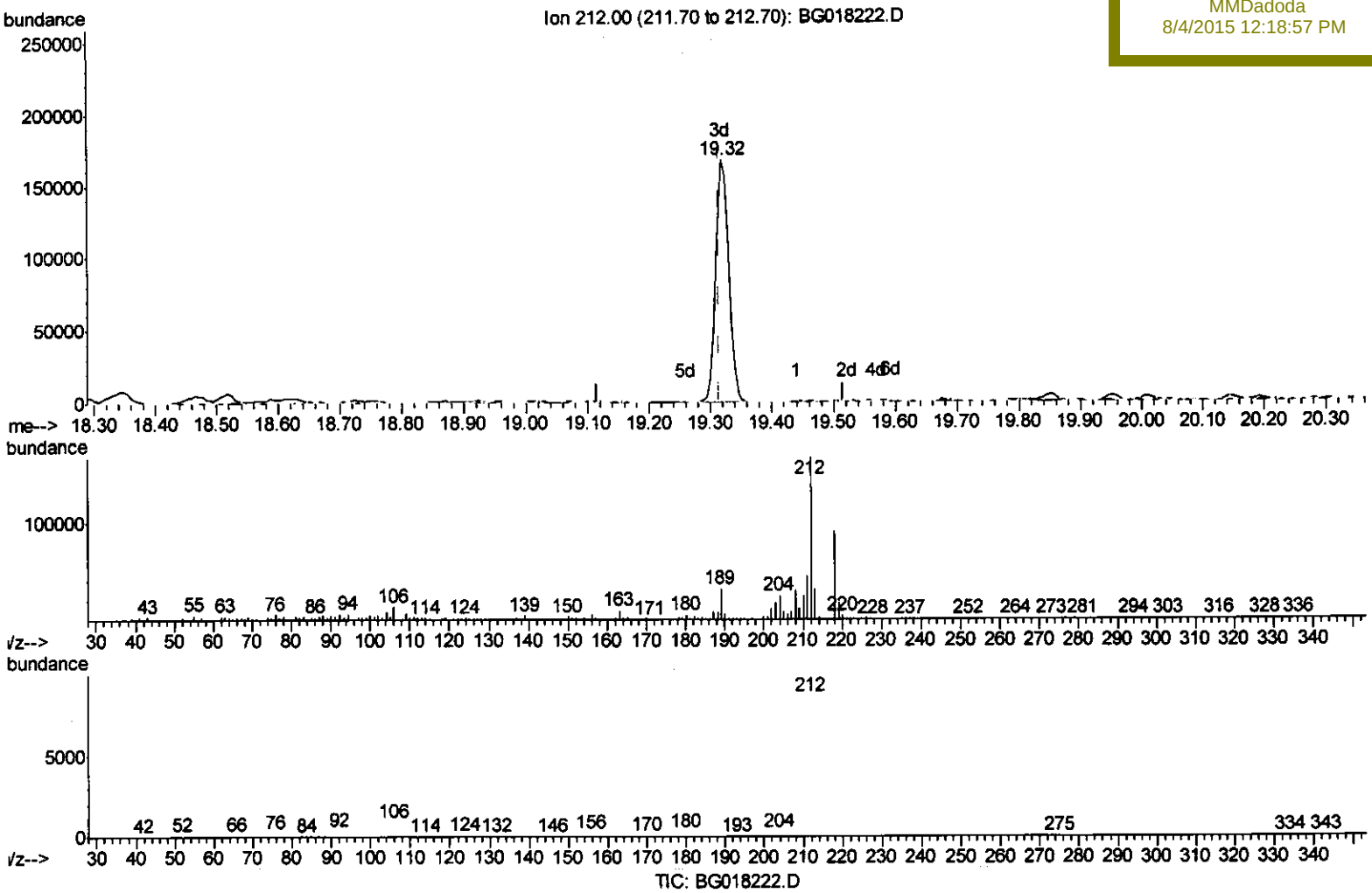
Ion	Exp%	Act%
212.00	100	100
106.00	11.40	77.98#
104.00	7.60	65.41#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(79) Pyrene-d10 (S)

19.317min (+0.001) 9.08ng/ul m

response 245467

U·M 08/11/15

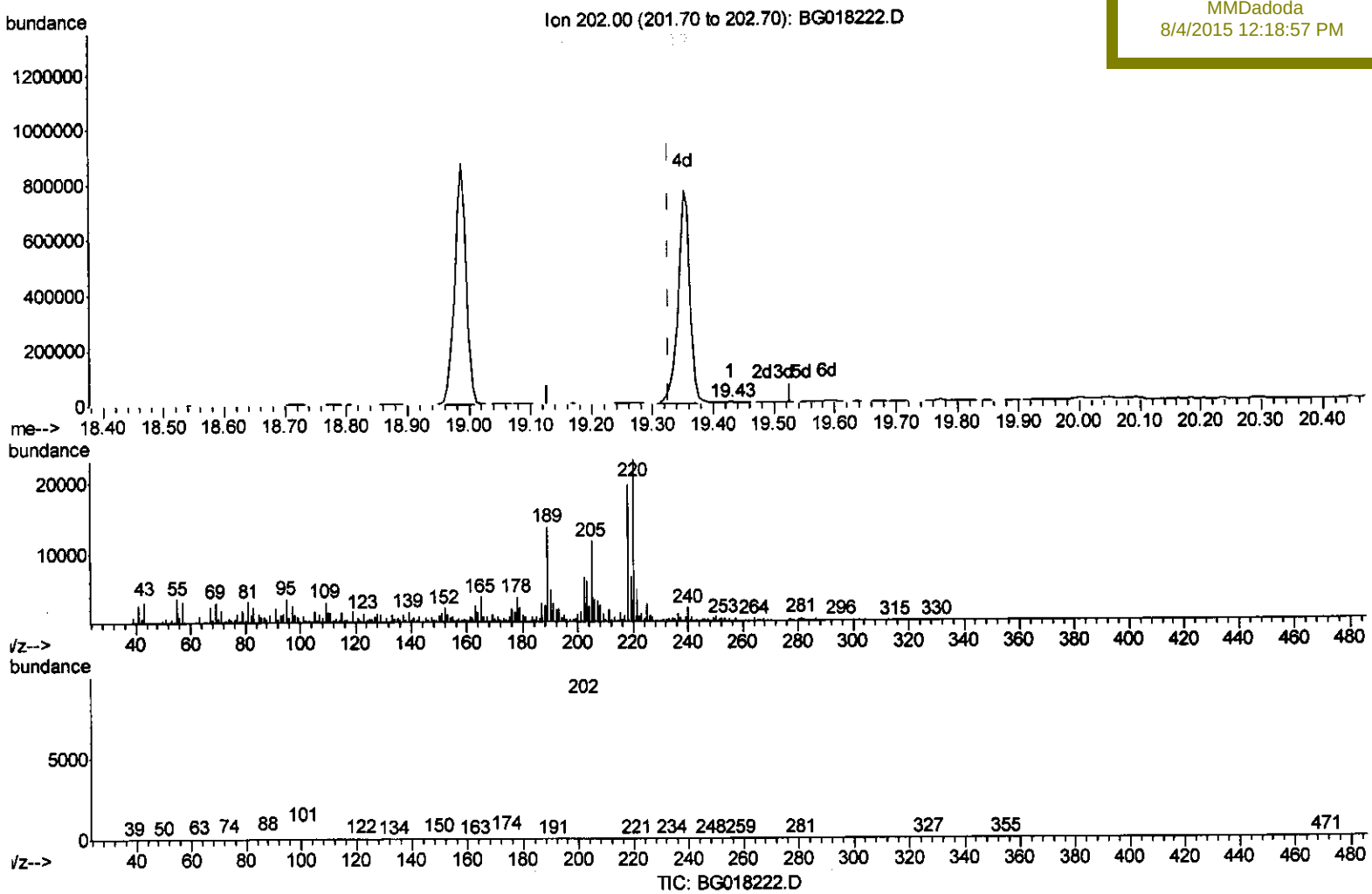
Ion	Exp%	Act%
212.00	100	100
106.00	11.40	8.02#
104.00	7.60	4.99#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 12 04:41:42 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 09:29:11 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(80) Pyrene

19.429min (+0.101) 114.39ng/ul

response 8722

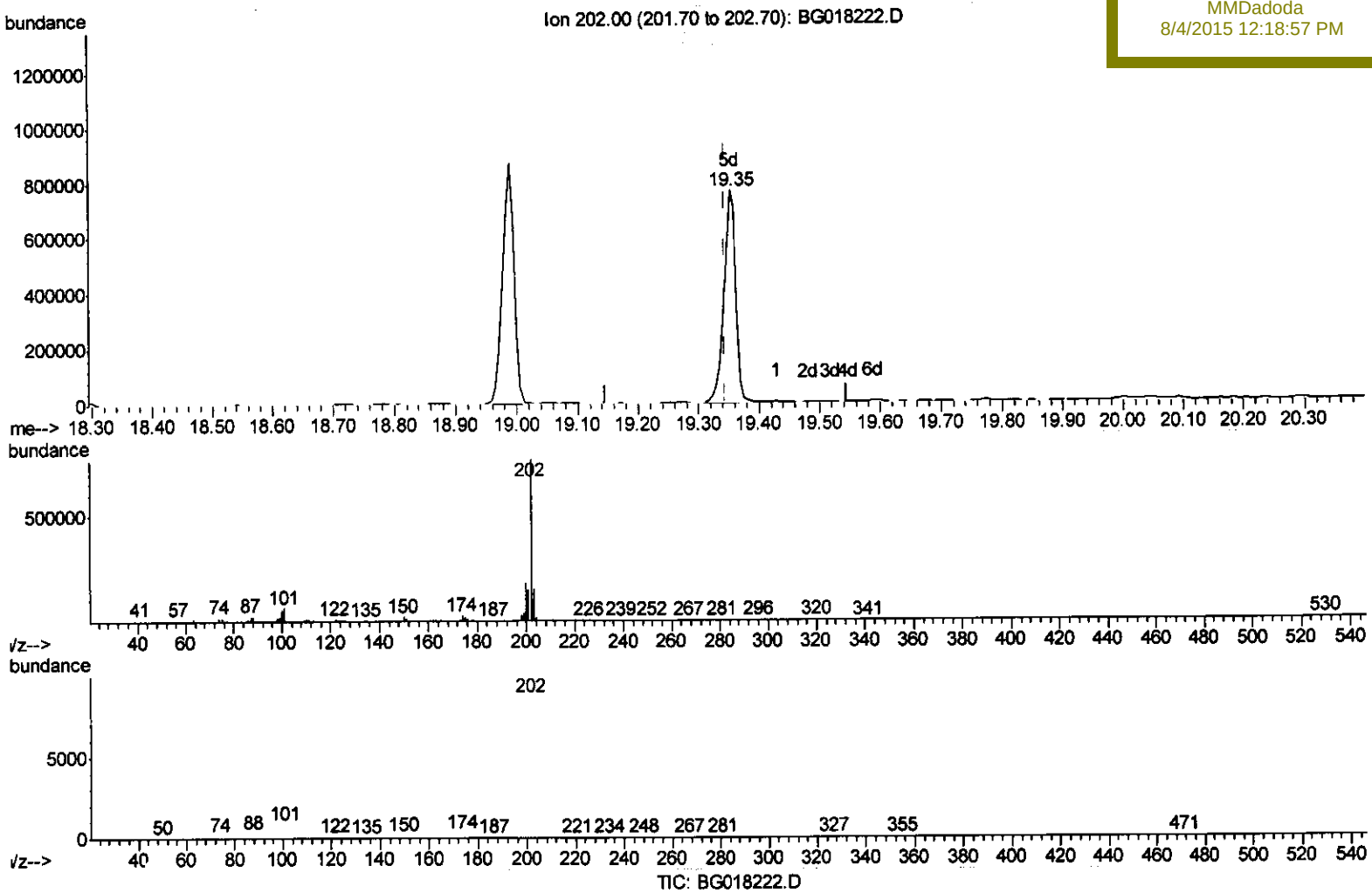
Ion	Exp%	Act%
202.00	100	100
101.00	10.10	16.42#
100.00	9.20	5.27#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(80) Pyrene

19.352min (+0.007) 31.11ng/ul m

response 1054217

U.M 08/11/15

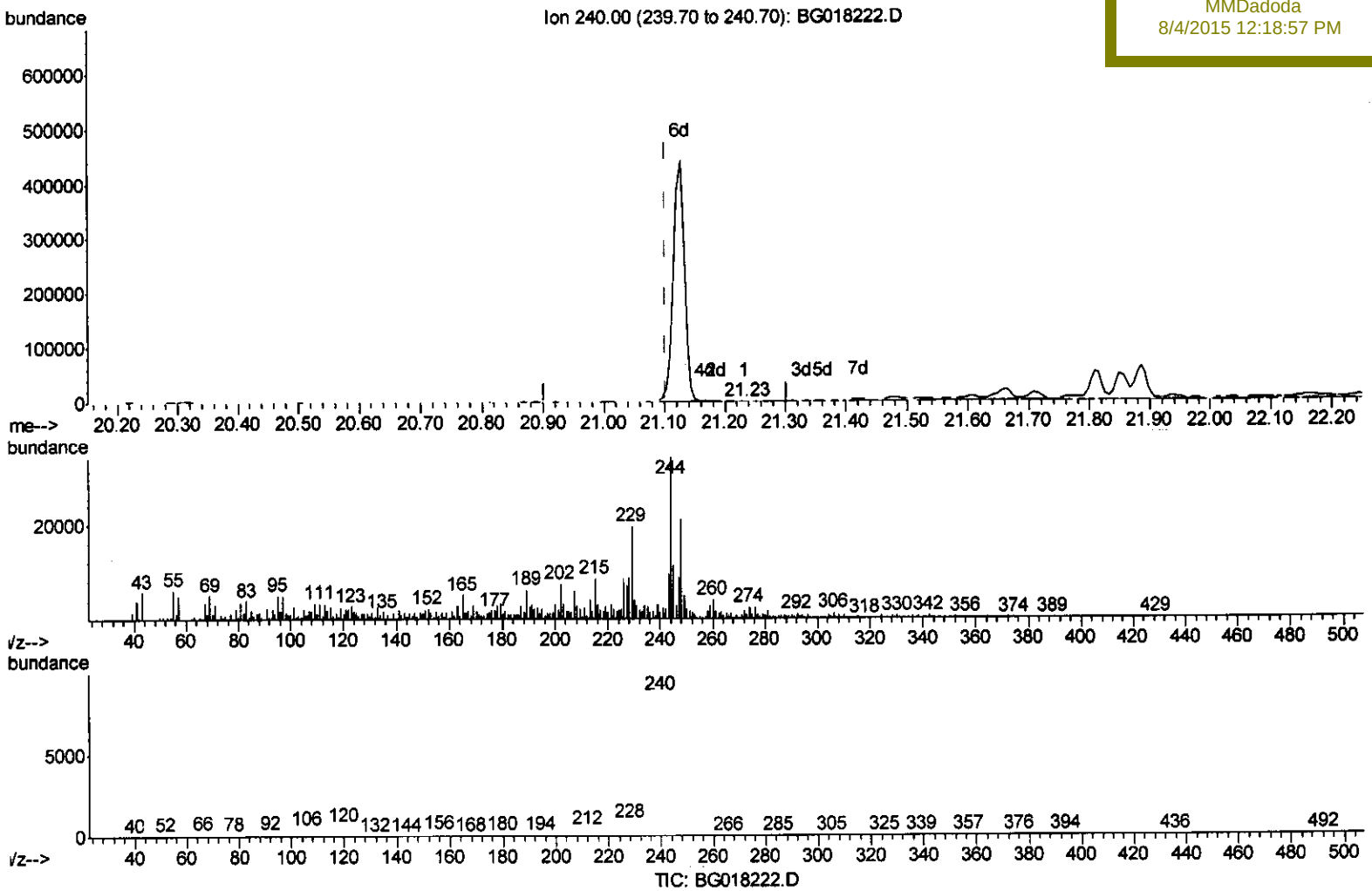
Ion	Exp%	Act%
202.00	100	100
101.00	10.10	8.00#
100.00	9.20	6.66#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 12 04:41:42 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 09:29:11 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(78) Chrysene-d12 (I)

21.232min (+0.130) 20.00ng/ul

response 1257

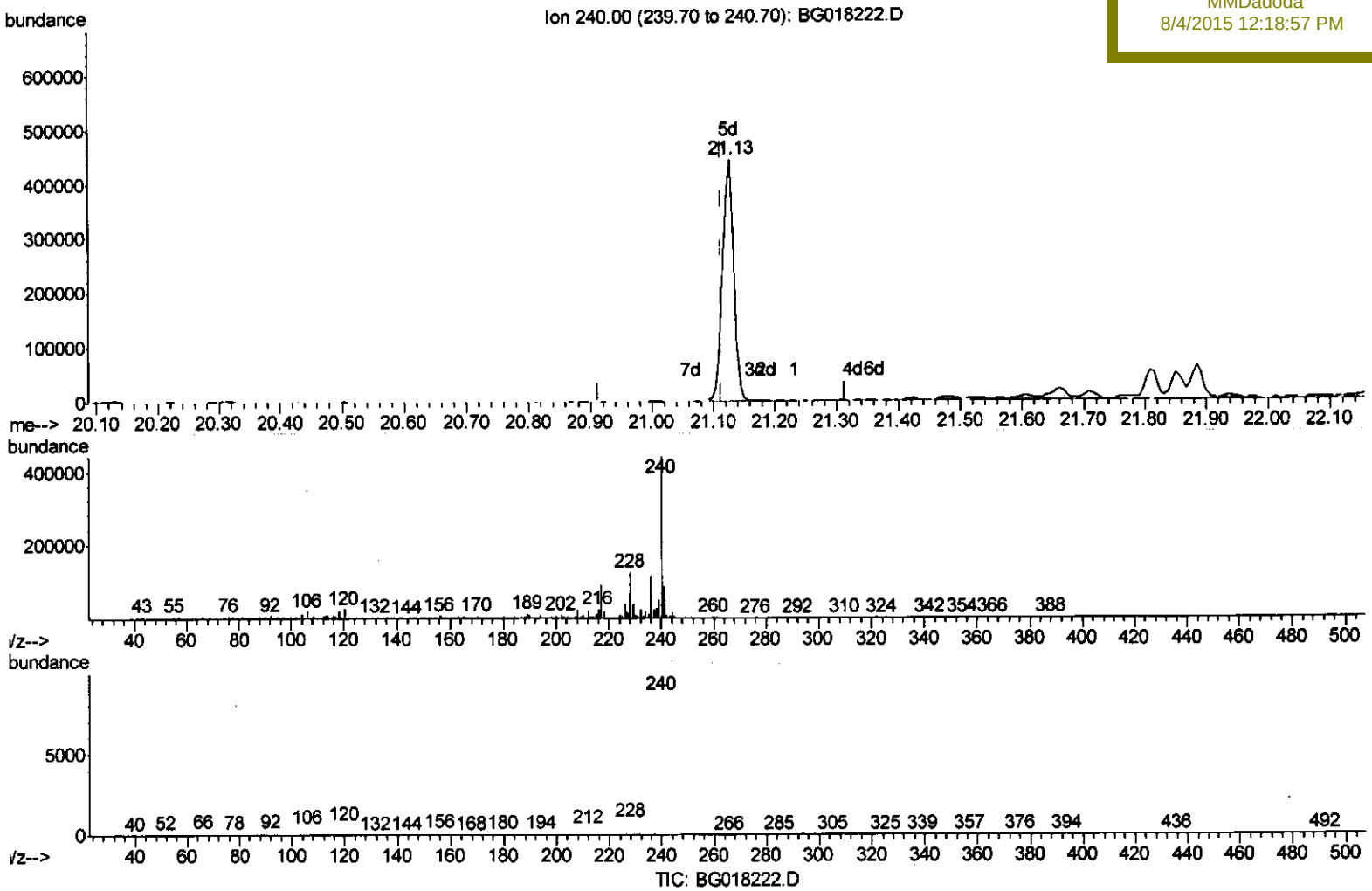
Ion	Exp%	Act%
240.00	100	100
120.00	9.70	73.45#
236.00	24.90	91.73#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(78) Chrysene-d12 (I)

21.127min (+0.013) 20.00ng/ul m

response 558584

> U·H 08/11/15

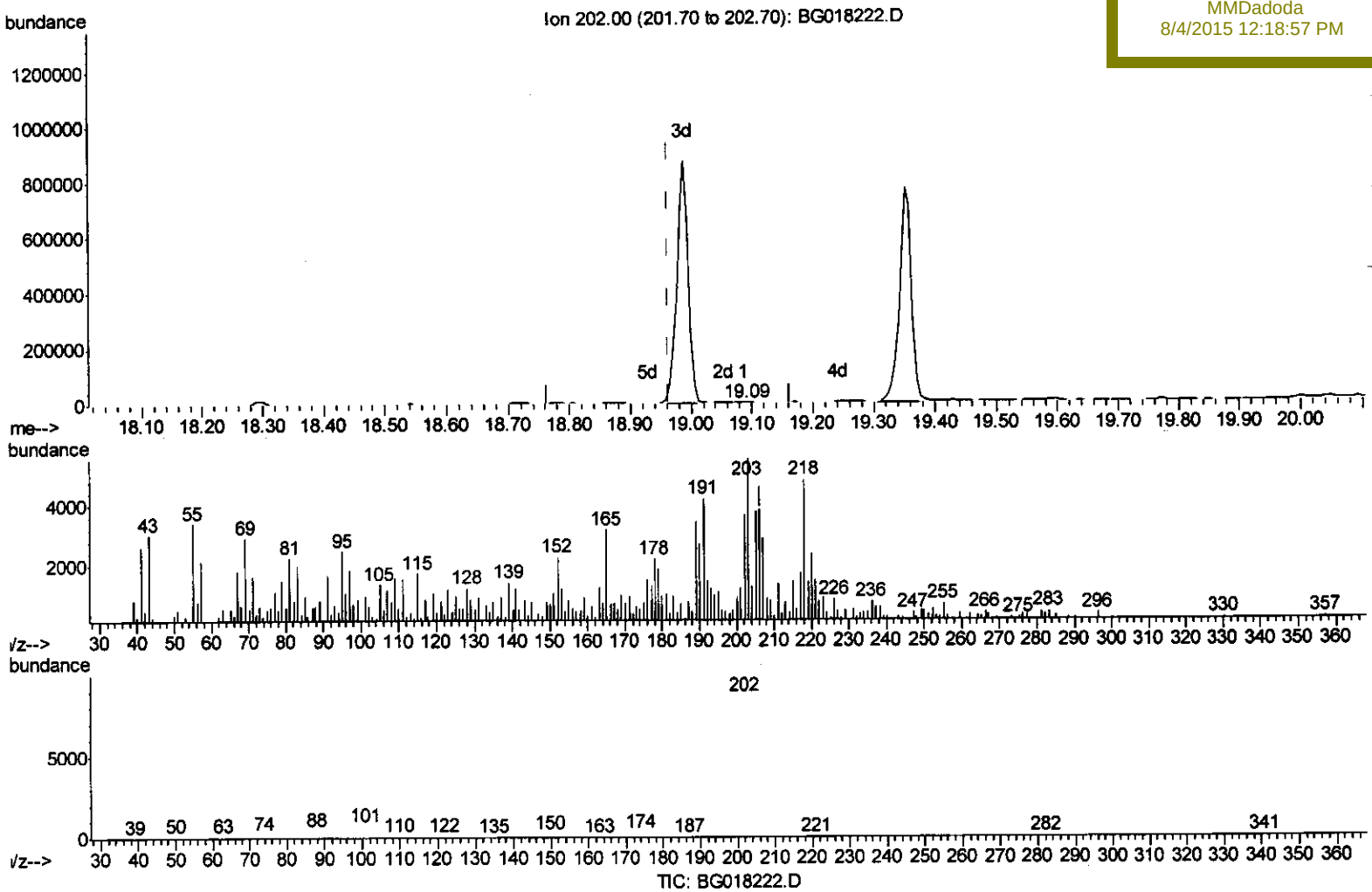
Ion	Exp%	Act%
240.00	100	100
120.00	9.70	6.04#
236.00	24.90	26.25
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 12 04:41:42 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 09:29:11 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



TIC: BG018222.D

(77) Fluoranthene (C)

19.088min (+0.124) 0.20ng/ul

response 2980

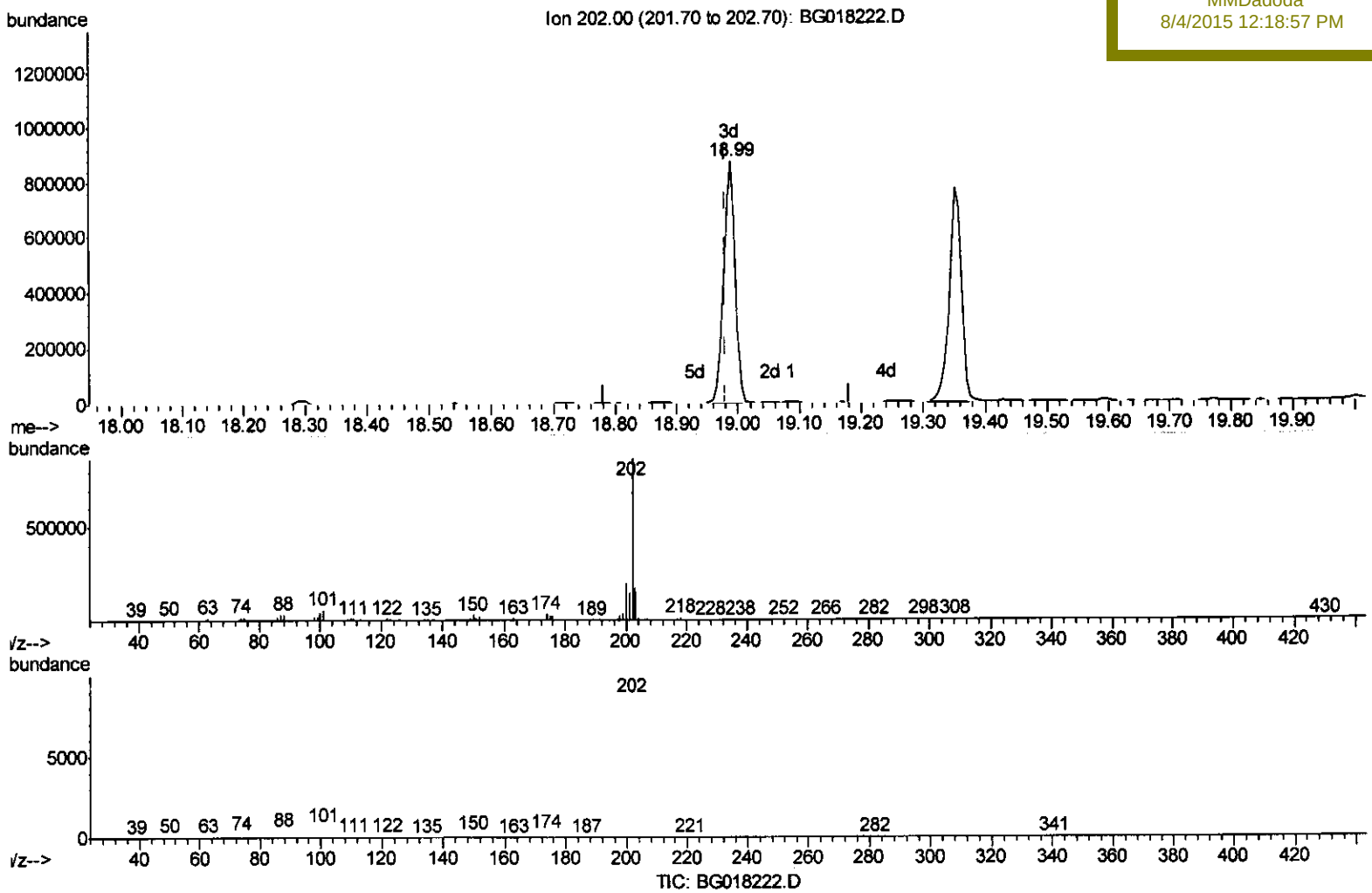
Ion	Exp%	Act%
202.00	100	100
101.00	9.40	26.35#
100.00	6.90	5.19#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



TIC: BG018222.D

(77) Fluoranthene (C)

18.988min (+0.007) 39.40ng/ul m > U · M 08/11/15

response 1133321

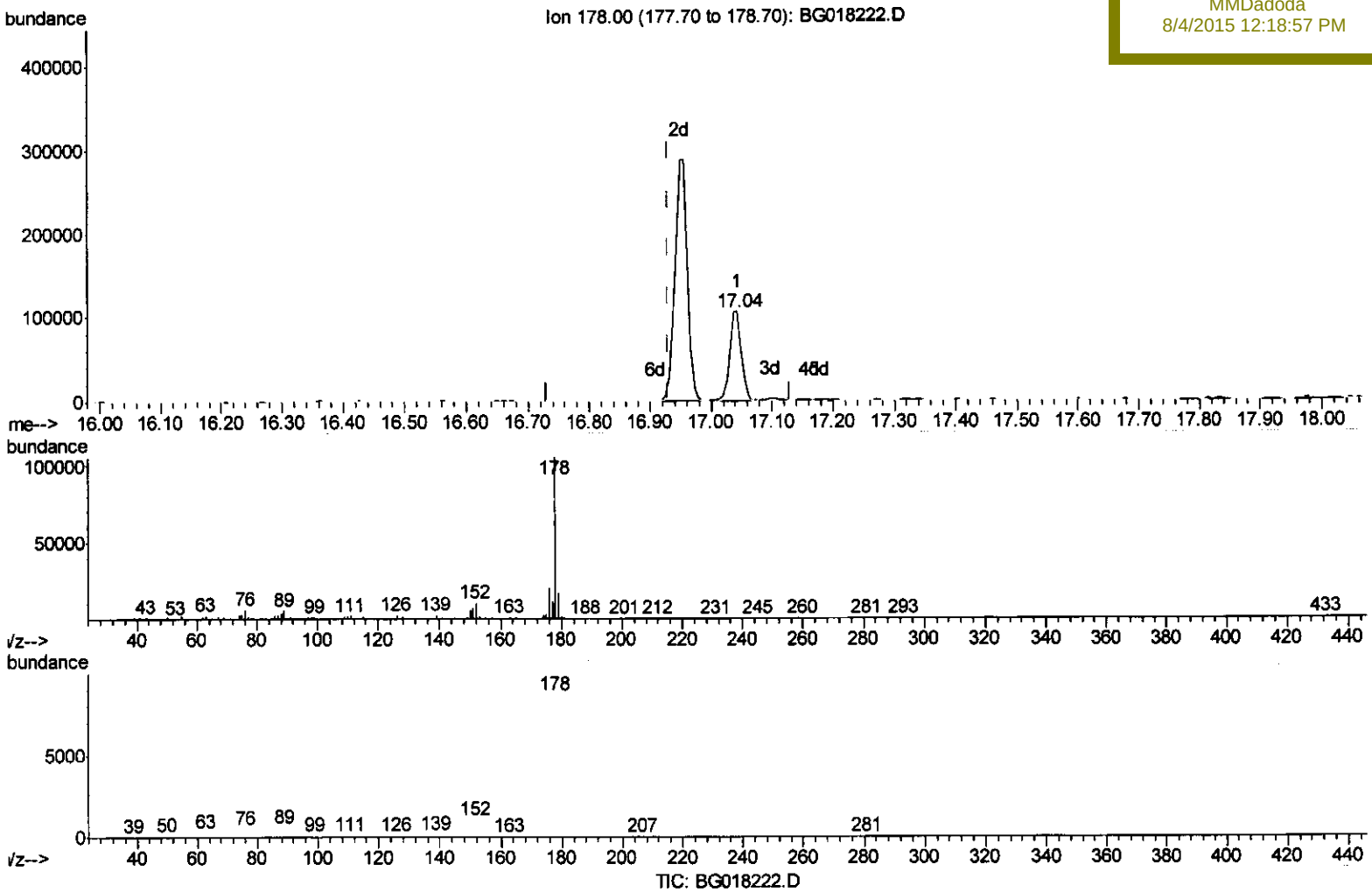
Ion	Exp%	Act%
202.00	100	100
101.00	9.40	6.51#
100.00	6.90	5.17#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 12 04:41:42 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 09:29:11 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(70) Phenanthrene

17.043min (+0.113) 10.60ng/ul

response 140980

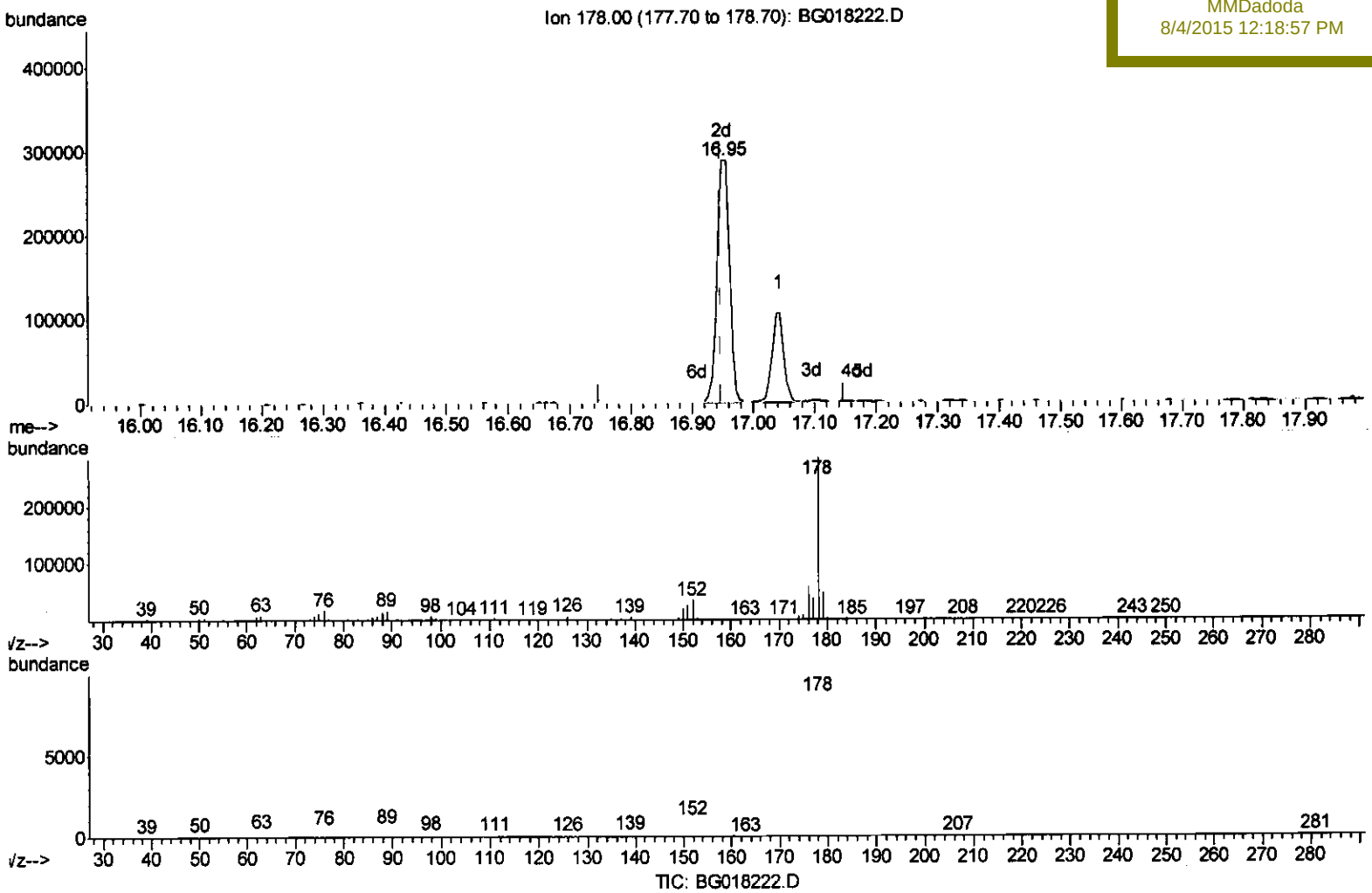
Ion	Exp%	Act%
178.00	100	100
179.00	16.00	15.96
176.00	20.00	19.26
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(70) Phenanthrene

16.949min (+0.001) 15.53ng/ul m

response 406742

U · M 08/11/15

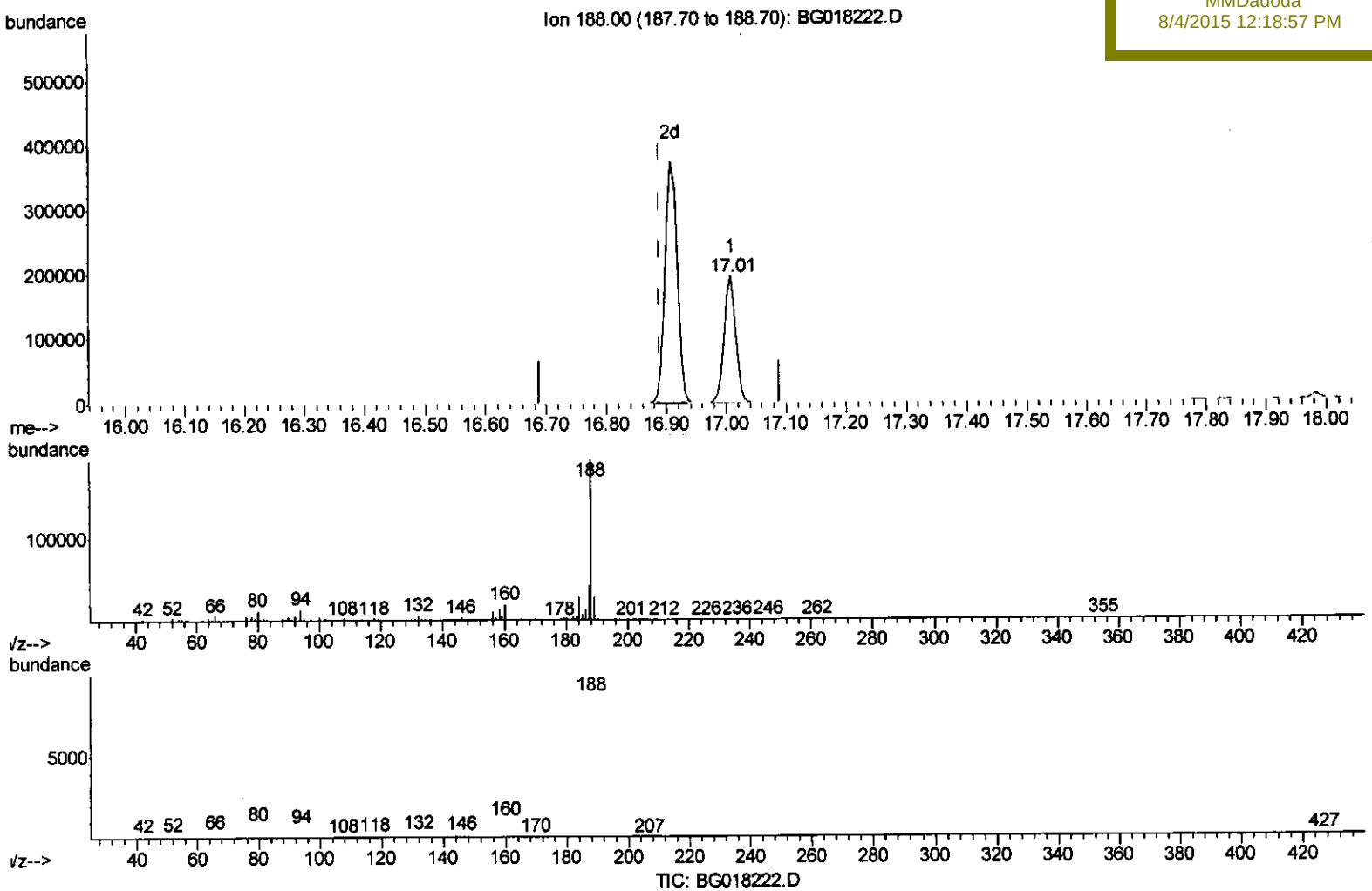
Ion	Exp%	Act%
178.00	100	100
179.00	16.00	16.44
176.00	20.00	20.26
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 12 04:41:42 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 09:29:11 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(62) Phenanthrene-d10 (I)

17.008min (+0.119) 20.00ng/ul

response 261831

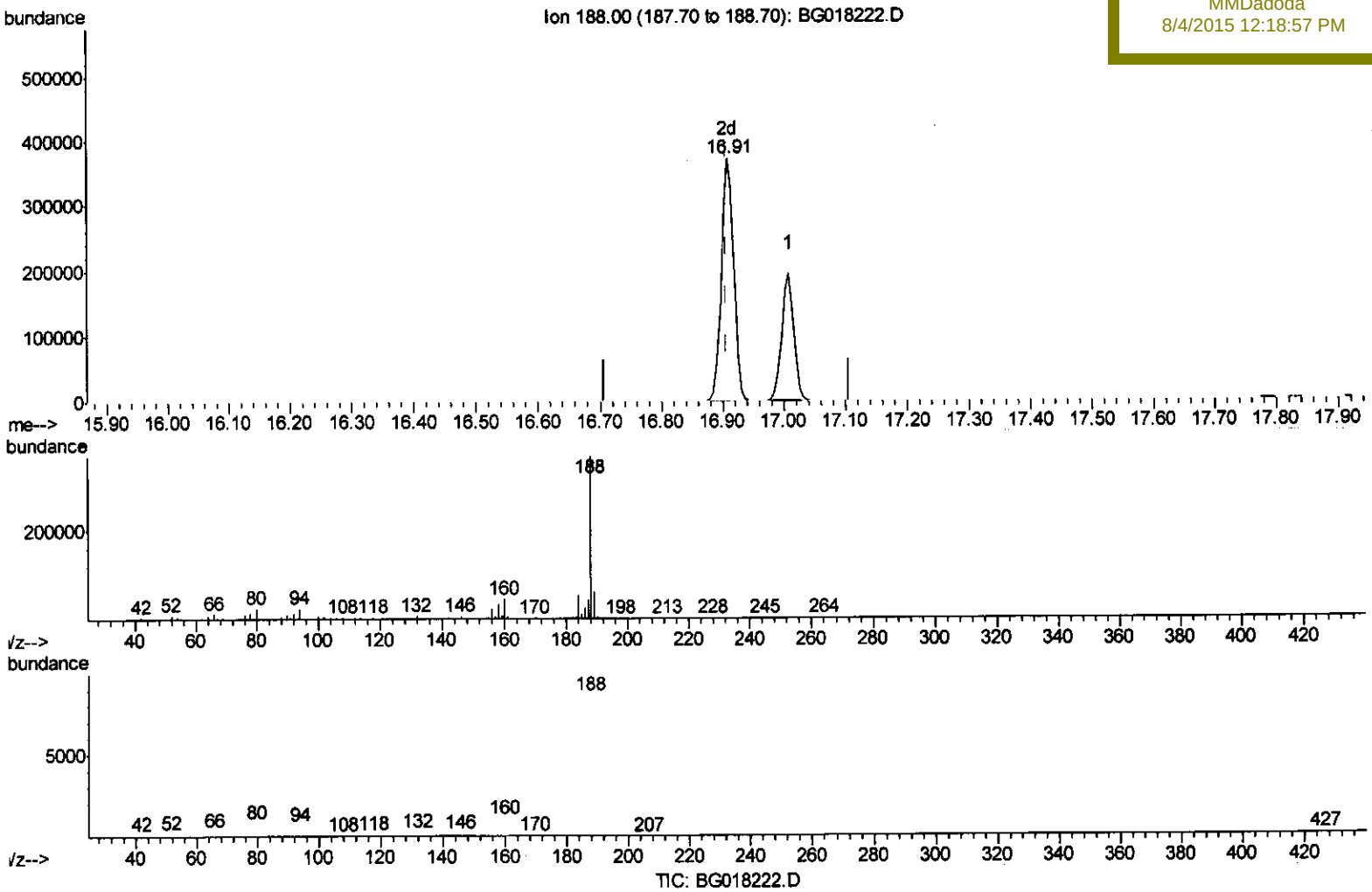
Ion	Exp%	Act%
188.00	100	100
94.00	7.90	6.98
80.00	7.40	6.44
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(62) Phenanthrene-d10 (I)

16.908min (+0.001) 20.00ng/ul m

response 515564

U.M 08/11/15

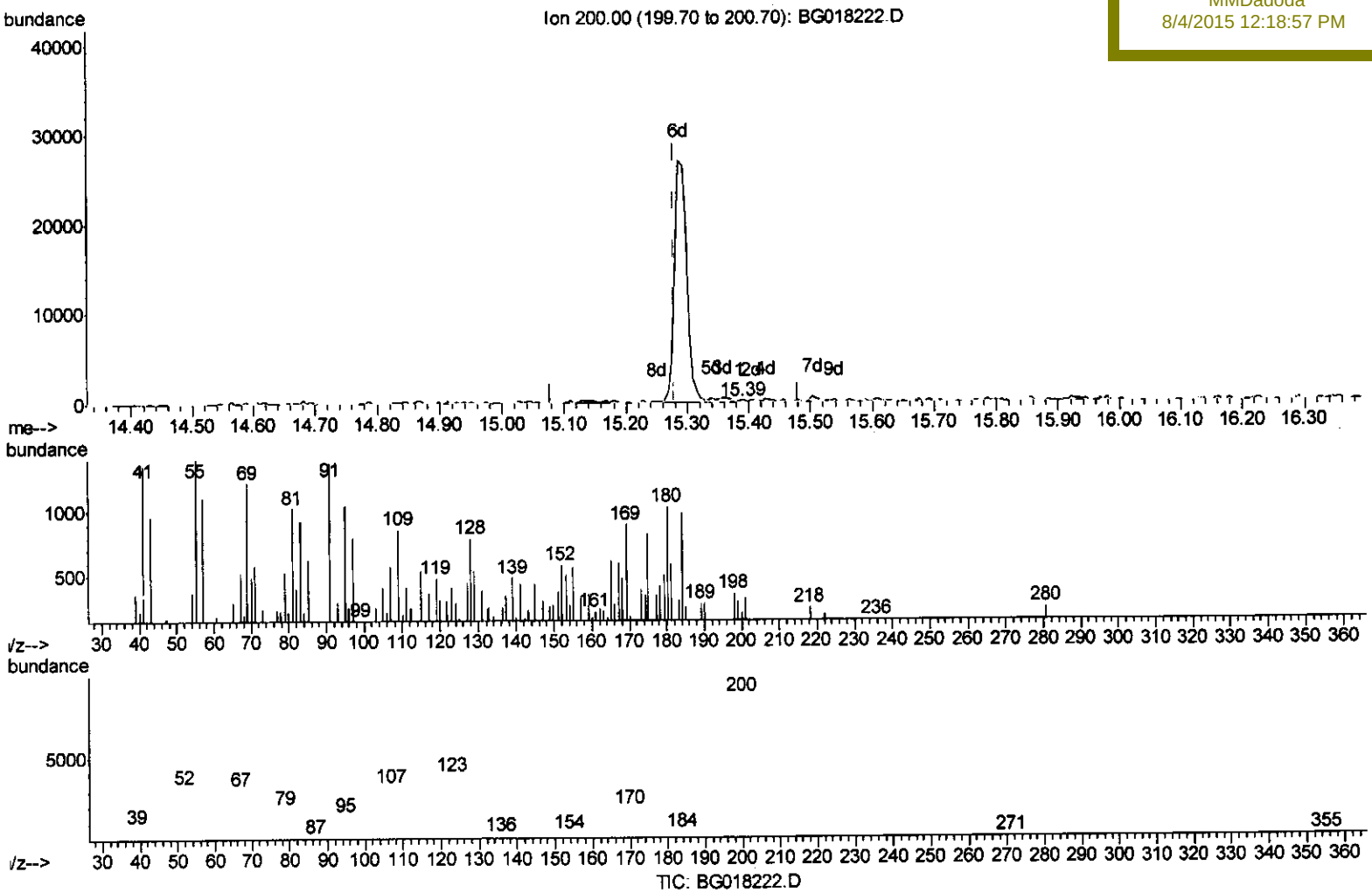
Ion	Exp%	Act%
188.00	100	100
94.00	7.90	6.23#
80.00	7.40	6.37
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 12 04:41:42 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Aug 06 09:29:11 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



(63) 4,6-Dinitro-2-methylphenol-d2 (S)

15.388min (+0.107) 0.08ng/ul

response 147

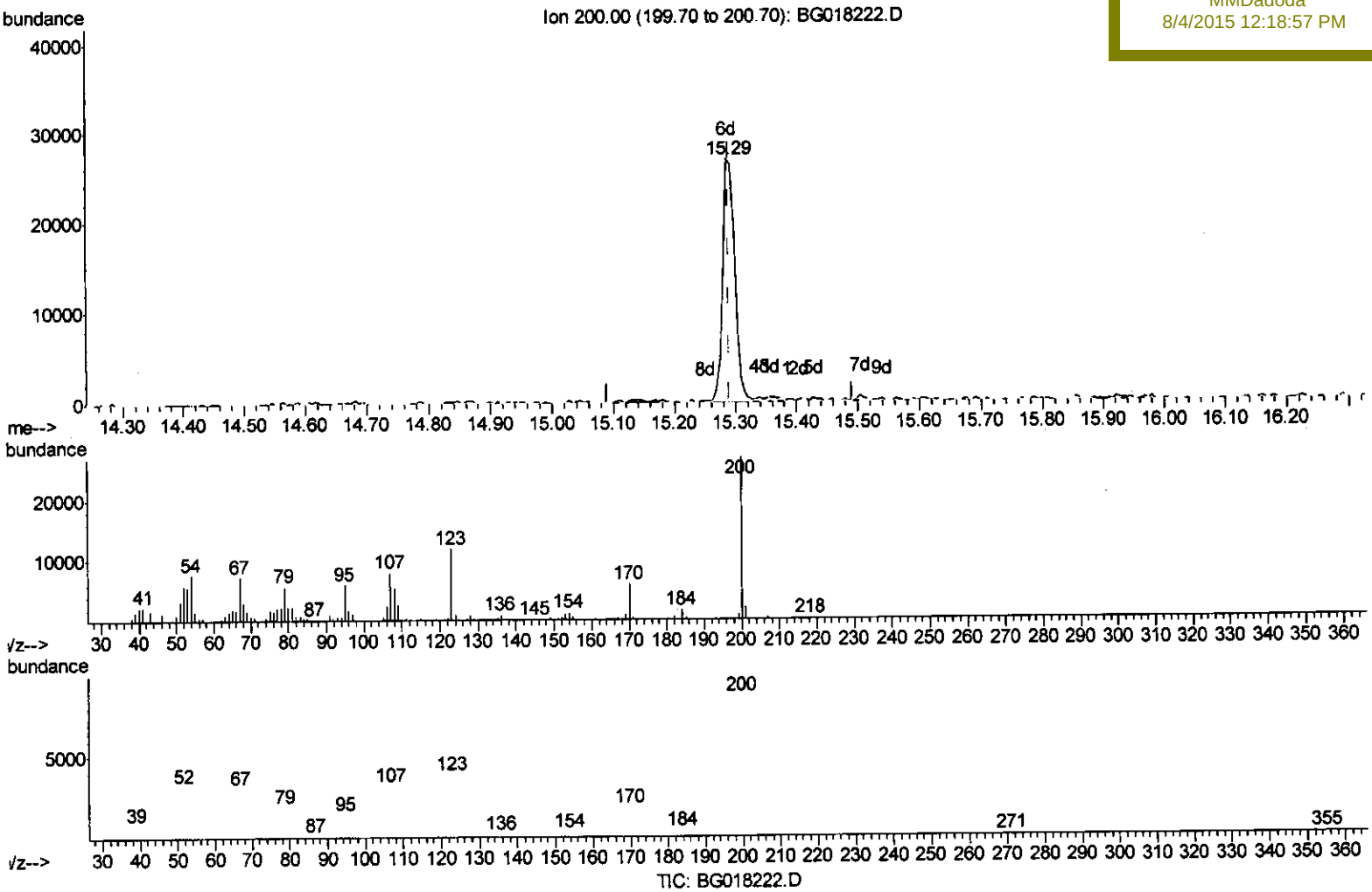
Ion	Exp%	Act%
200.00	100	100
170.00	13.30	86.73#
52.00	21.10	0.00#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM



TIC: BG018222.D

(63) 4,6-Dinitro-2-methylphenol-d2 (S)

15.286min (-0.005) 10.41ng/ul m > U·M 8/11/15

response 37485

Ion	Exp%	Act%
200.00	100	100
170.00	13.30	22.06#
52.00	21.10	21.86
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG080215\
Data File : BG018222.D
Acq On : 2 Aug 2015 12:55
Operator : TP
Sample : G3065-10RE
Misc :
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 03 06:28:59 2015
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG073115.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Aug 01 07:09:30 2015
Response via : Initial Calibration

Instrument : BNA_G
ClientSampleId : C02A3RE

Manual Integrations APPROVED
MMDadoda
8/4/2015 12:18:57 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.47	152	90270	20.00	ng/ul	0.00
18) Naphthalene-d8	10.26	136	472880	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.15	164	318307	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.91	188	515564m	20.00	ng/ul	0.00
78) Chrysene-d12	21.13	240	558584m	20.00	ng/ul	0.01
86) Perylene-d12	23.31	264	548653	20.00	ng/ul	0.02
System Monitoring Compounds						
3) 1,4-Dioxane-d8	2.95	96	2156	1.80	ng/uL	-0.02
5) Phenol-d5	6.67	99	97028	11.95	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.81	67	51351	12.38	ng/ul	-0.01
9) 2-Chlorophenol-d4	7.01	132	82326	13.43	ng/ul	0.00
13) 4-Methylphenol-d8	8.20	113	75023	11.35	ng/ul	0.00
19) Nitrobenzene-d5	8.62	128	44844	12.04	ng/ul	-0.01
22) 2-Nitrophenol-d4	9.35	143	50106	11.72	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.89	165	90865	12.03	ng/ul	0.00
29) 4-Chloroaniline-d4	10.40	131	31092	3.30	ng/ul	0.00
44) Dimethylphthalate-d6	13.57	166	302808	12.31	ng/ul	0.00
47) Acenaphthylene-d8	13.84	160	320373	11.23	ng/ul	0.00
52) 4-Nitrophenol-d4	14.39	143	13759	3.02	ng/ul	0.00
58) Fluorene-d10	15.15	176	224176	10.07	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.29	200	37485m	10.41	ng/ul	0.00
71) Anthracene-d10	17.01	188	261426	11.66	ng/ul	0.00
79) Pyrene-d10	19.32	212	245467m	9.08	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.17	264	291510	10.51	ng/ul	0.02
Target Compounds						Qvalue
45) Dimethylphthalate	13.62	163	661027	27.01	ng/ul	99
50) Acenaphthene	14.22	153	25971	1.41	ng/ul	91
57) Diethylphthalate	14.99	149	51394	2.03	ng/ul	99
59) Fluorene	15.20	166	37629	1.57	ng/ul	98
70) Phenanthrene	16.95	178	406742m	15.53	ng/ul	
72) Anthracene	17.04	178	140710	5.40	ng/ul	98
77) Fluoranthene	18.99	202	1133321m	39.40	ng/ul	
80) Pyrene	19.35	202	1054217m	31.11	ng/ul	
83) Benzo(a)anthracene	21.11	228	980513	32.60	ng/ul	95
85) Chrysene	21.16	228	887412m	32.21	ng/ul	
88) Benzo(b)fluoranthene	22.66	252	1323346	40.15	ng/ul#	95
89) Benzo(k)fluoranthene	22.70	252	370695m	12.24	ng/ul	
91) Benzo(a)pyrene	23.22	252	985859	33.43	ng/ul#	93
92) Indeno(1,2,3-cd)pyrene	25.53	276	596031	17.47	ng/ul#	86
93) Dibenzo(a,h)anthracene	25.52	278	204753	7.01	ng/ul#	88
94) Benzo(g,h,i)perylene	26.21	276	569420	20.44	ng/ul#	90

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