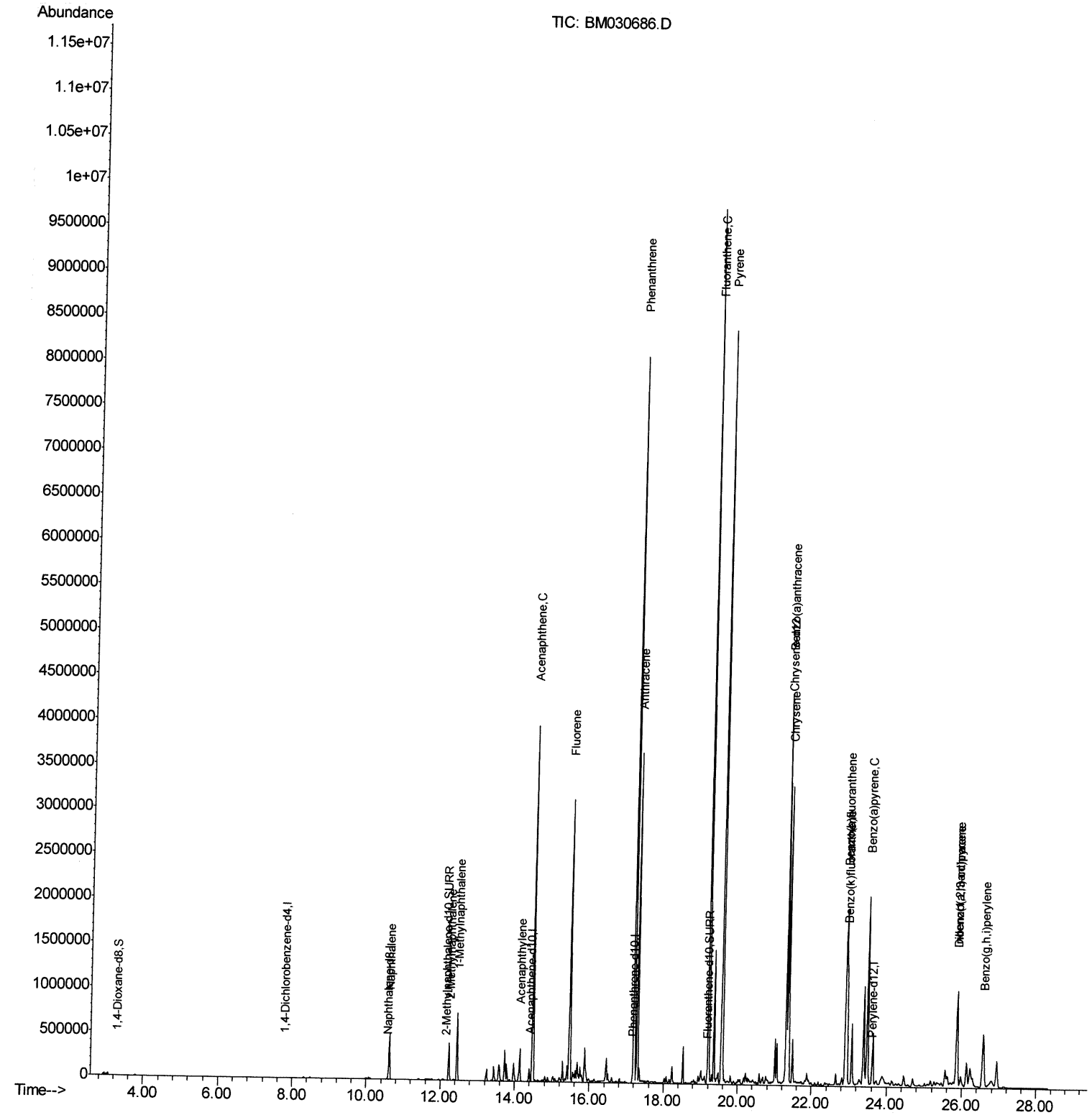
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:16:35 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM

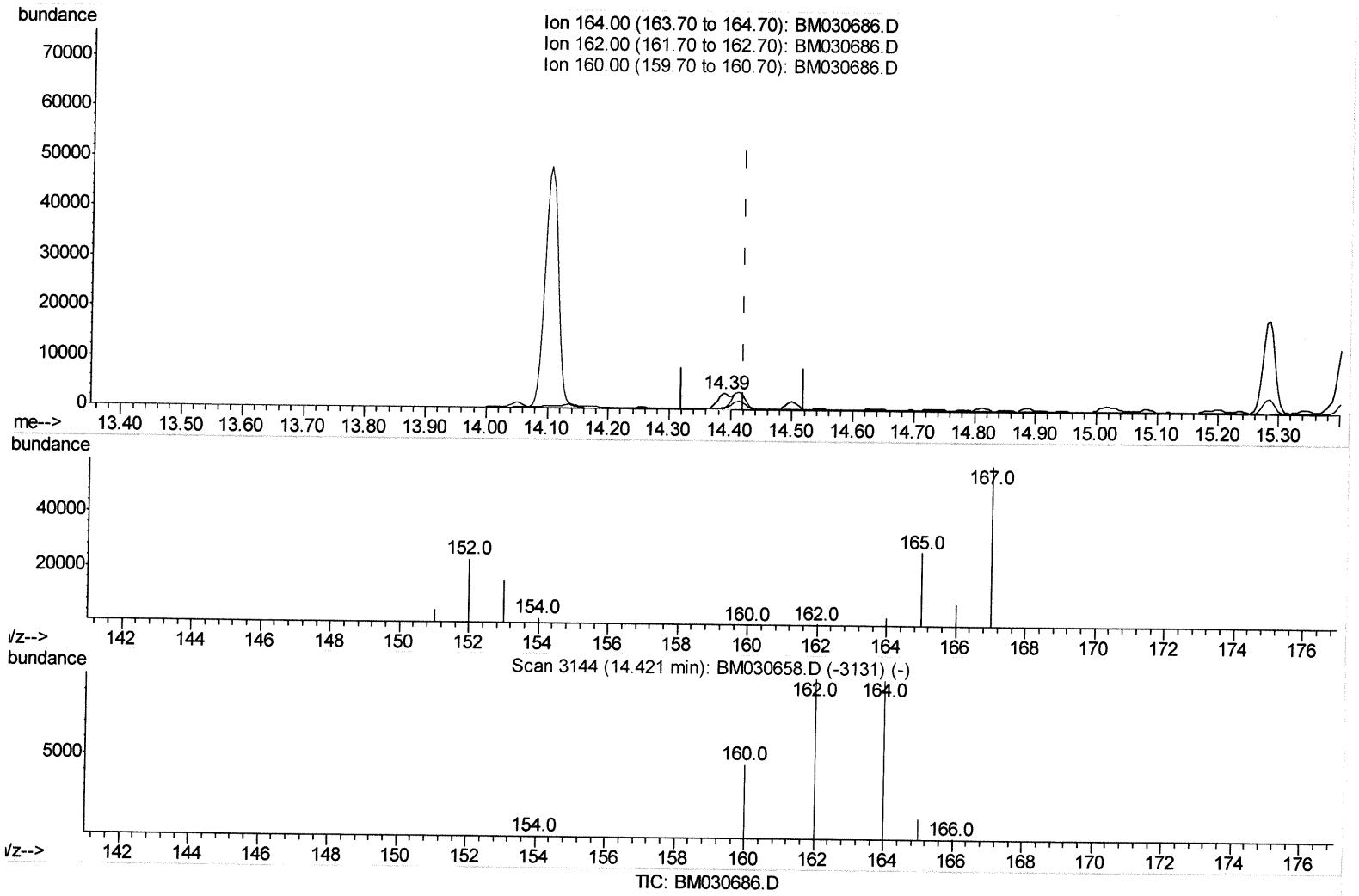


Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:08:20 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



(9) Acenaphthene-d10 (I)

14.390min (-0.031) 0.40ng/ul

response 4709

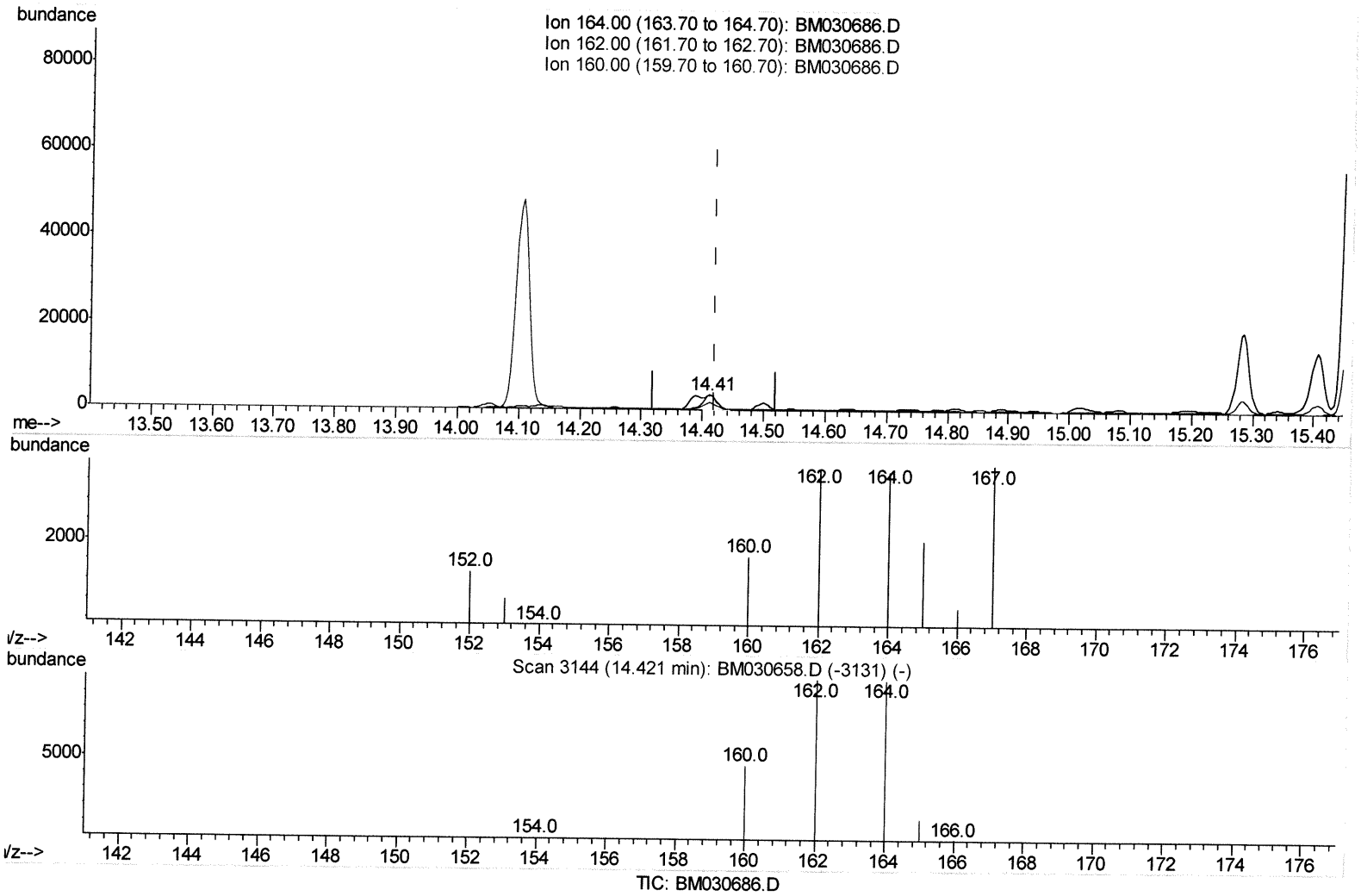
Ion	Exp%	Act%
164.00	100	100
162.00	102.70	16.41#
160.00	48.50	8.89#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:08:20 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



TIC: BM030686.D

(9) Acenaphthene-d10 (I)

14.412min (-0.008) 0.40ng/ul m

response 4635 JU 6/30/21

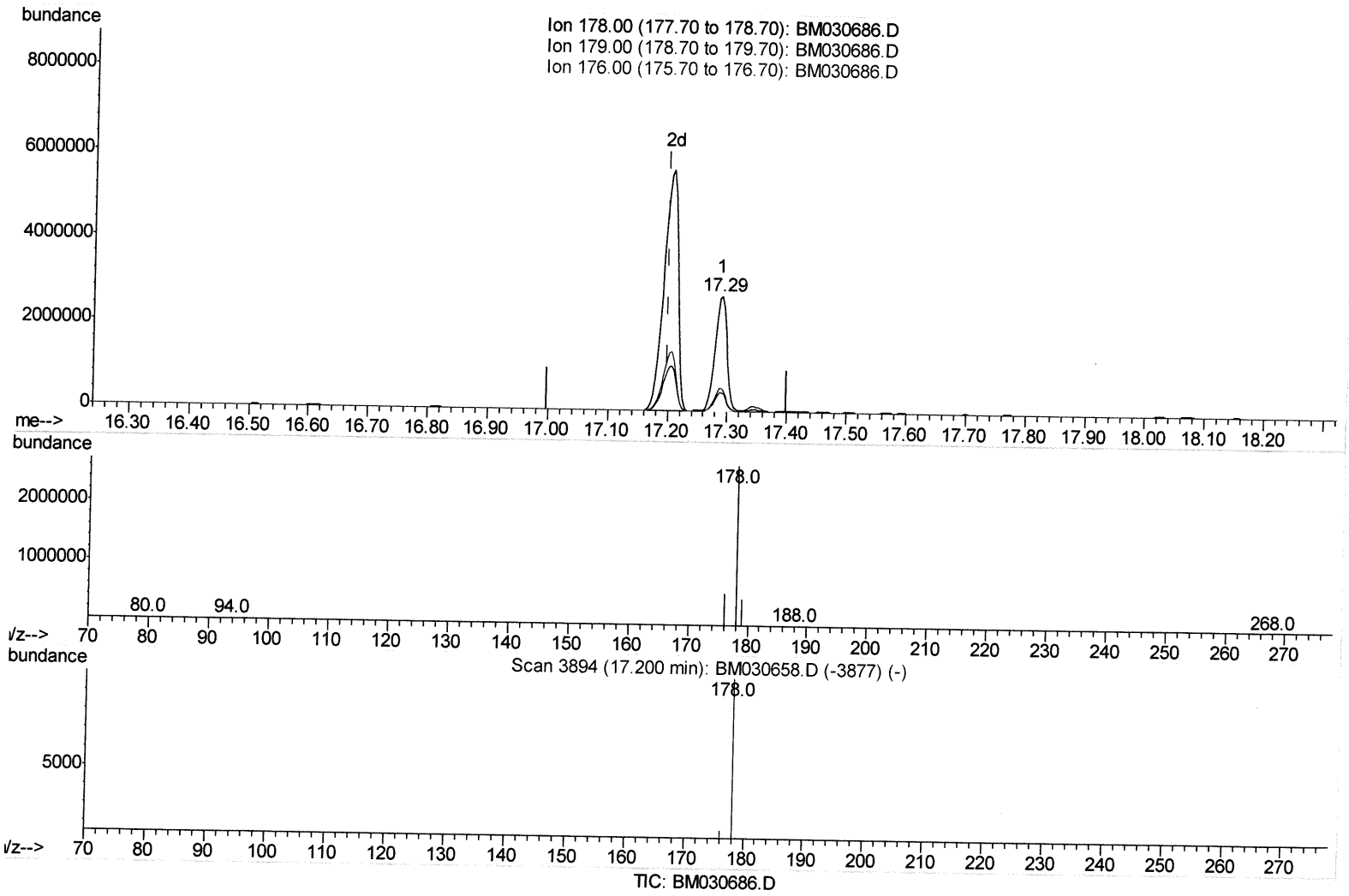
Ion	Exp%	Act%
164.00	100	100
162.00	102.70	101.10
160.00	48.50	49.74
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:13:22 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



(15) Phenanthrene

17.290min (+0.090) 107.20ng/ul

response 3679436

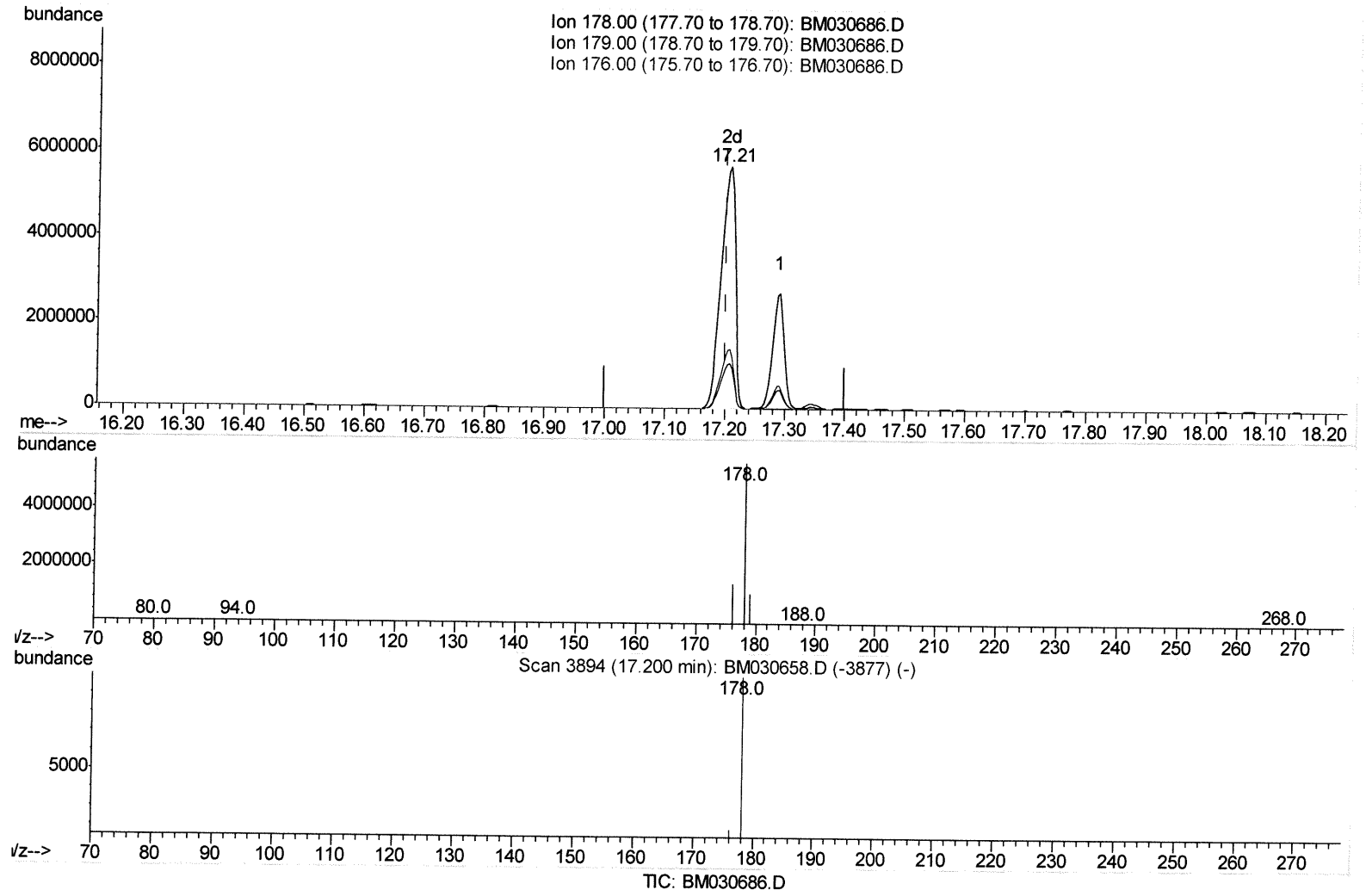
Ion	Exp%	Act%
178.00	100	100
179.00	16.60	16.63
176.00	20.00	19.70
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:13:22 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



TIC: BM030686.D

(15) Phenanthrene

17.206min (+0.006) 266.74ng/ul m

response 9155640

JU 6/30/21

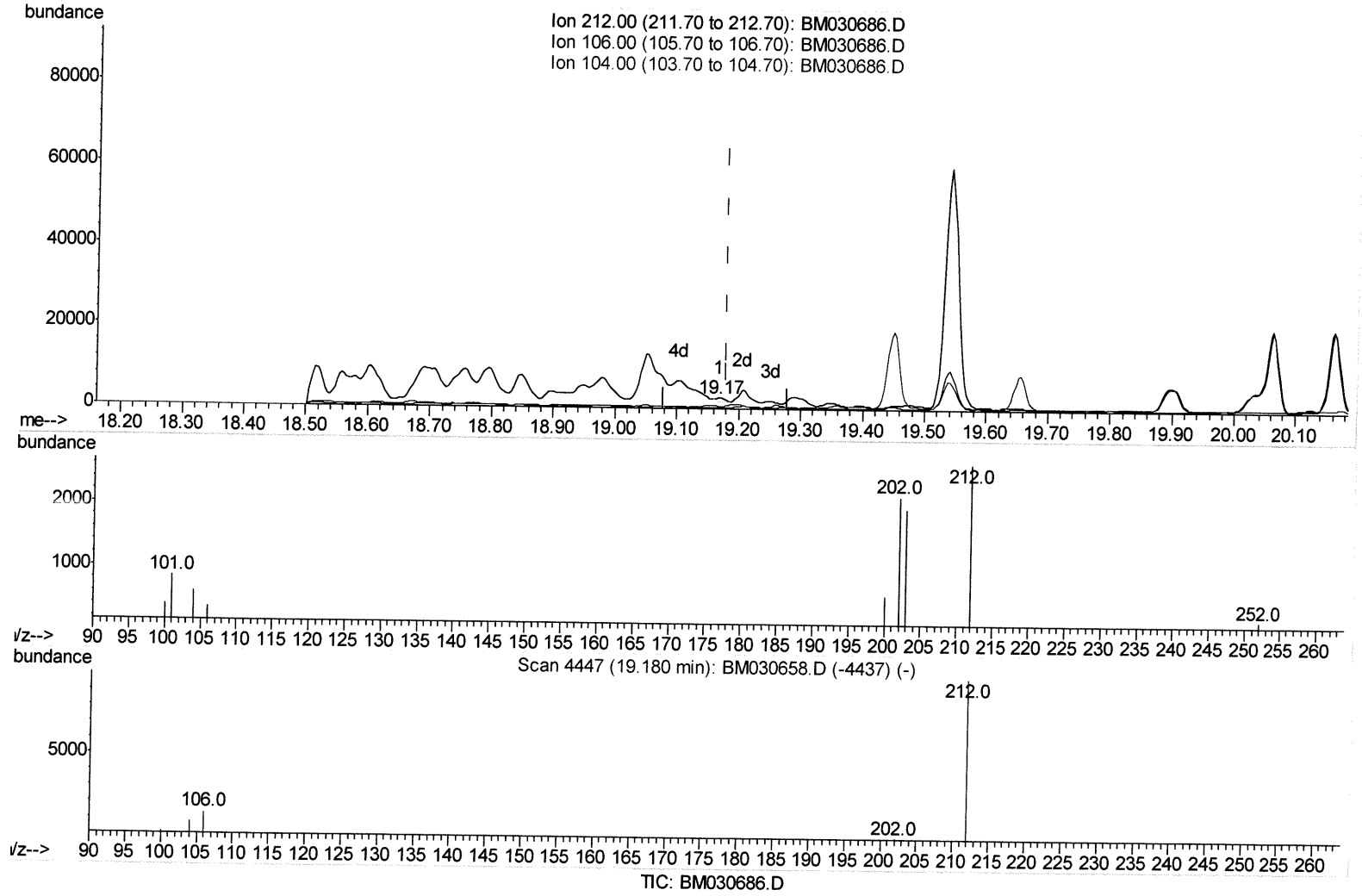
Ion	Exp%	Act%
178.00	100	100
179.00	16.60	18.68
176.00	20.00	24.48#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:13:22 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



TIC: BM030686.D

(18) Fluoranthene-d10 (SURR)

19.168min (-0.012) 0.03ng/ul

response 939

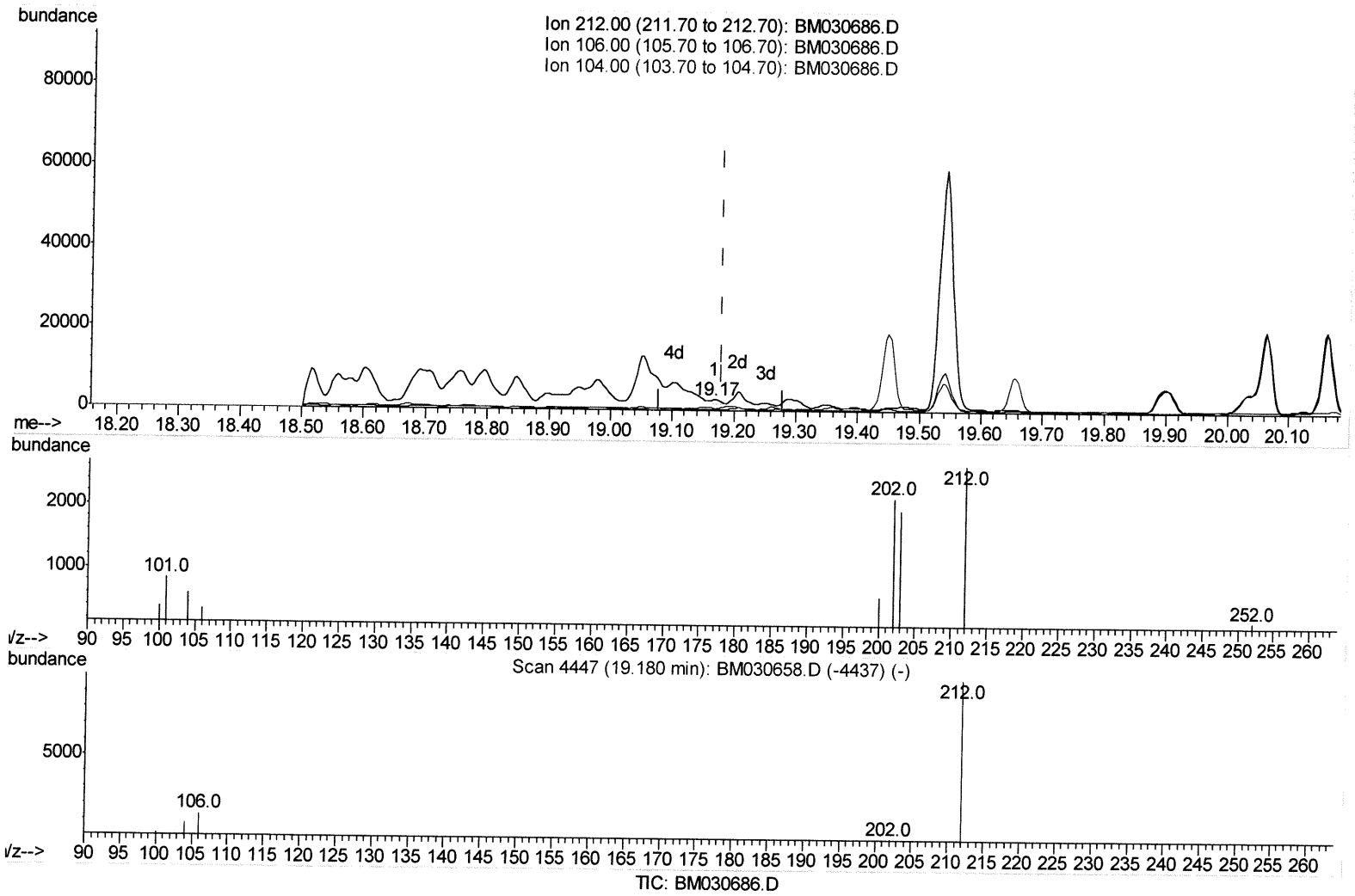
Ion	Exp%	Act%
212.00	100	100
106.00	14.20	7.88#
104.00	8.40	93.08#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:13:22 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



TIC: BM030686.D

(18) Fluoranthene-d10 (SURR)

19.168min (-0.012) 0.04ng/ul m

response 1456

JU 6/30/21

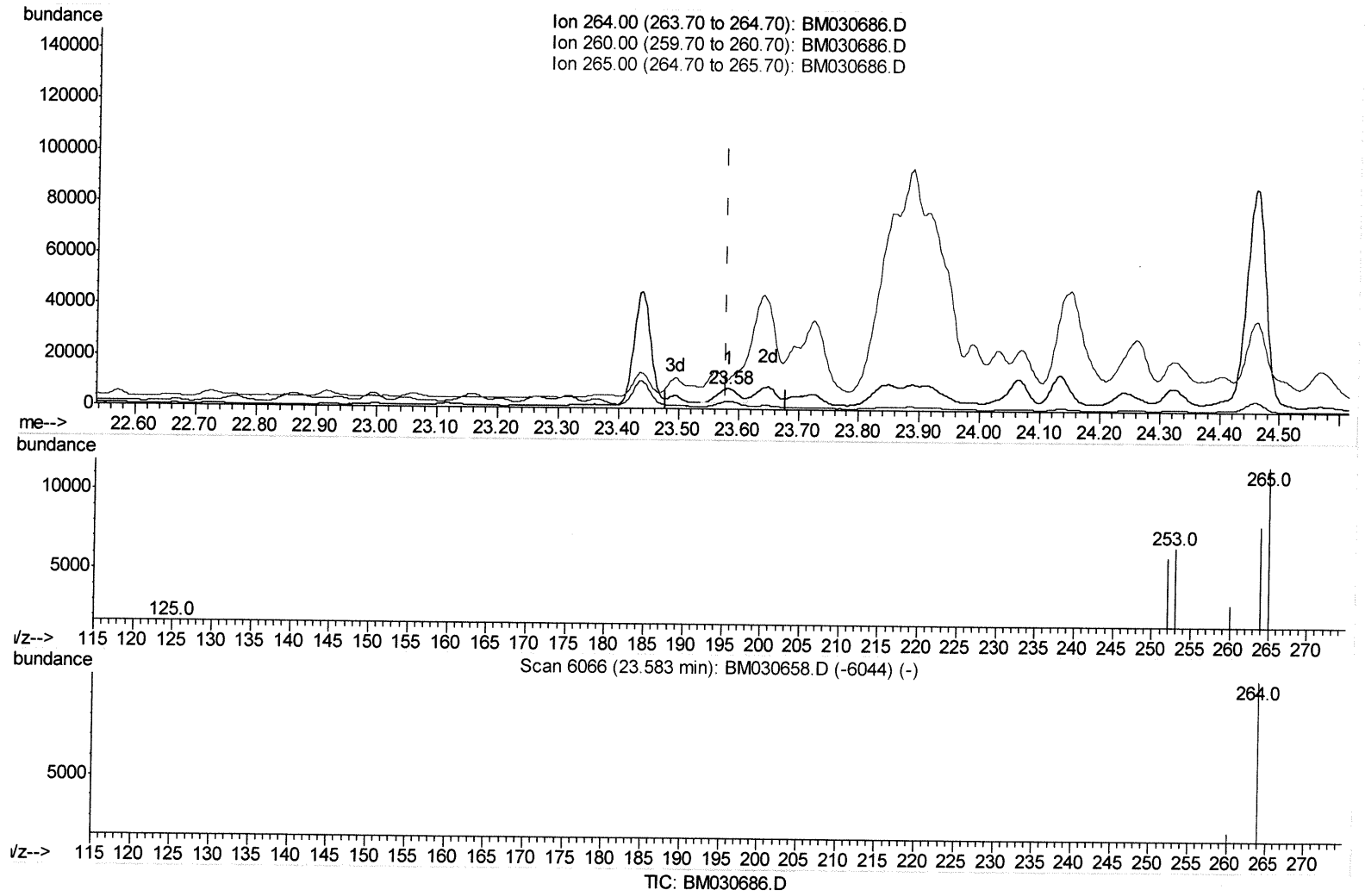
Ion	Exp%	Act%
212.00	100	100
106.00	14.20	5.08#
104.00	8.40	60.03#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:14:35 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



TIC: BM030686.D

(23) Perylene-d12 (I)

23.584min (+0.003) 0.40ng/ul

response 14114

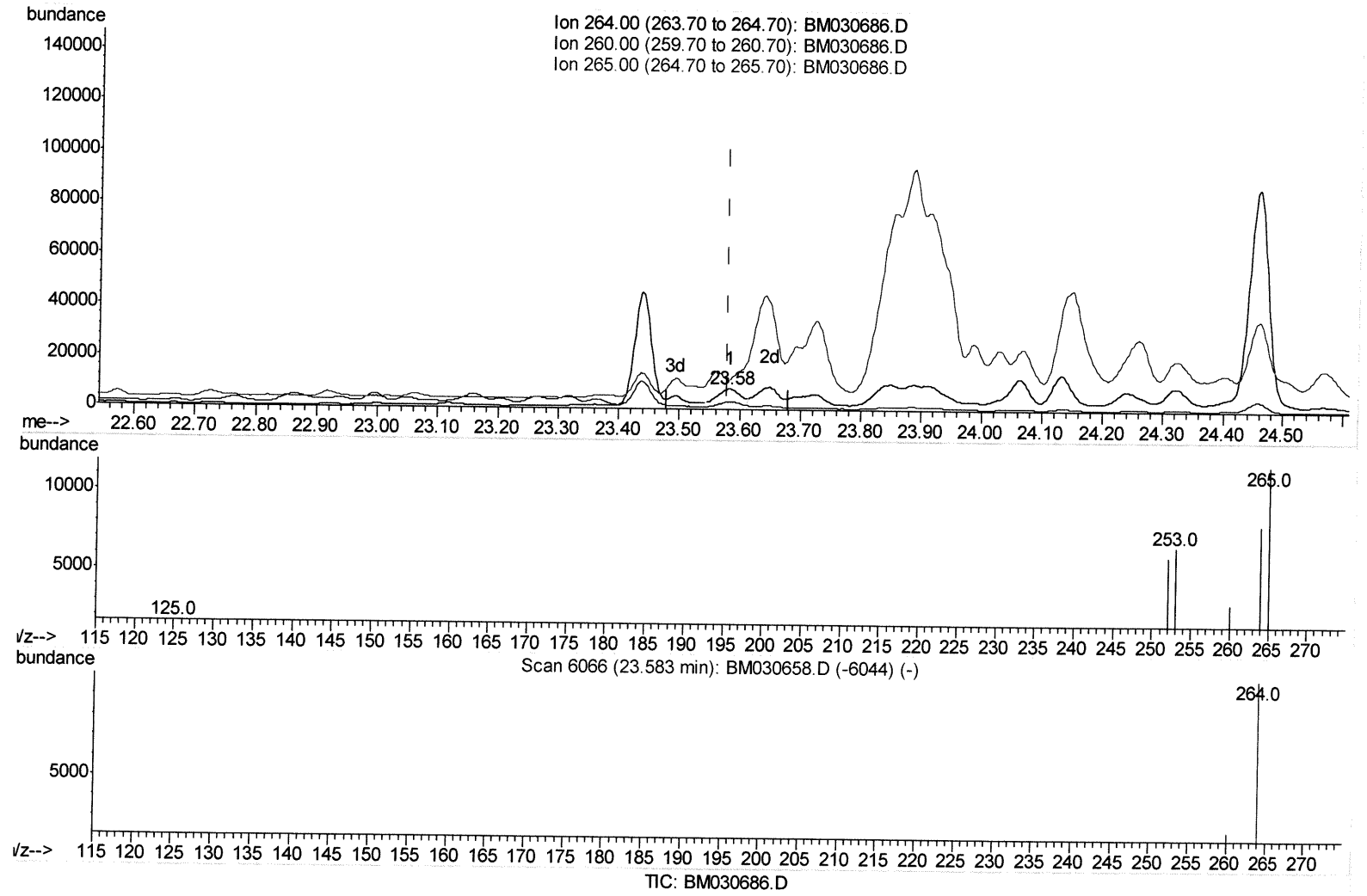
Ion	Exp%	Act%
264.00	100	100
260.00	26.60	37.71#
265.00	86.70	146.67#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:14:35 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



(23) Perylene-d12 (I)

23.584min (+0.003) 0.40ng/ul m

response 13507

JG 6/30/21

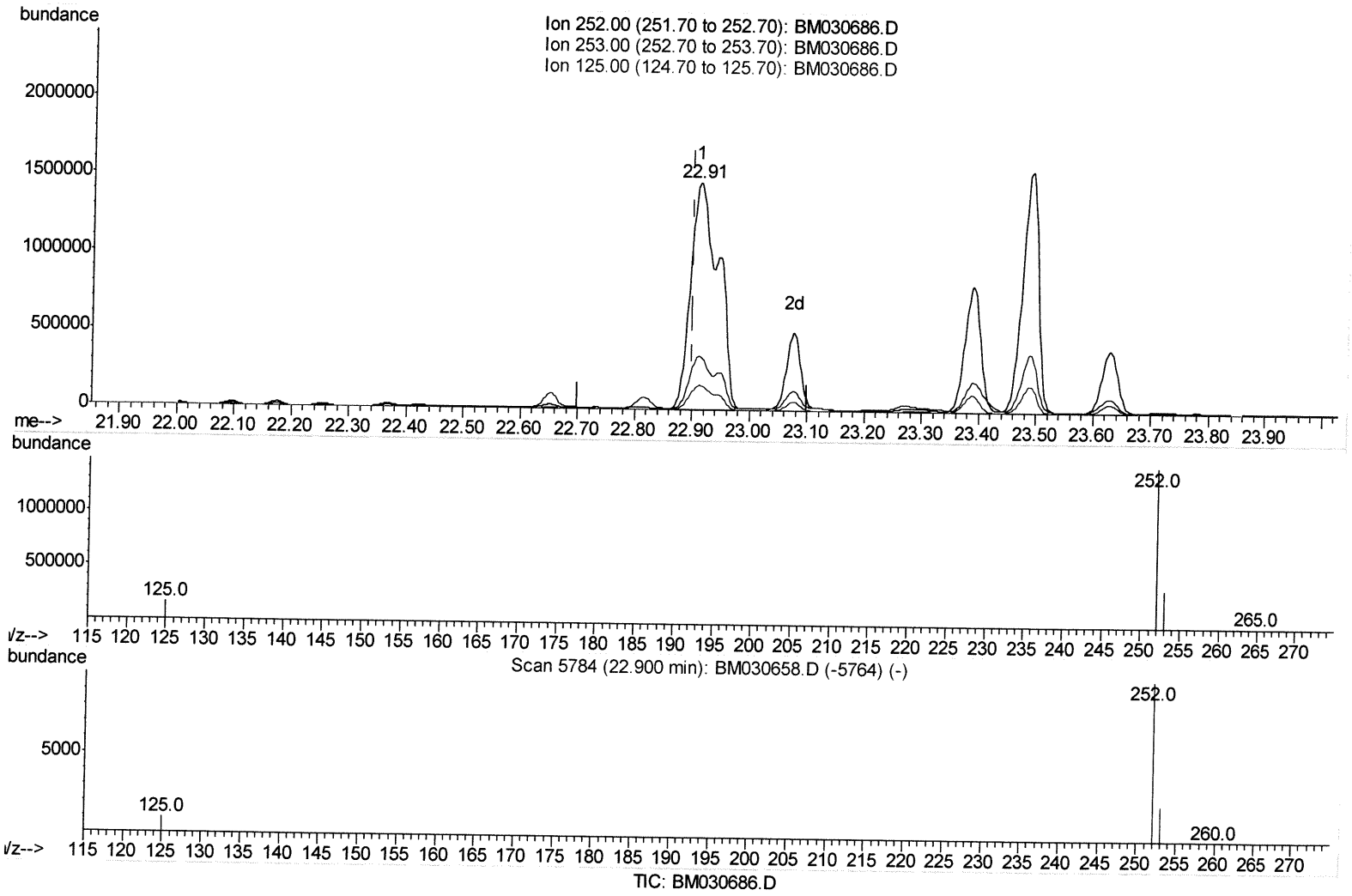
Ion	Exp%	Act%
264.00	100	100
260.00	26.60	37.71#
265.00	86.70	146.67#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:15:47 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



(24) Benzo(b)fluoranthene

22.913min (+0.013) 81.64ng/ul

response 4883877

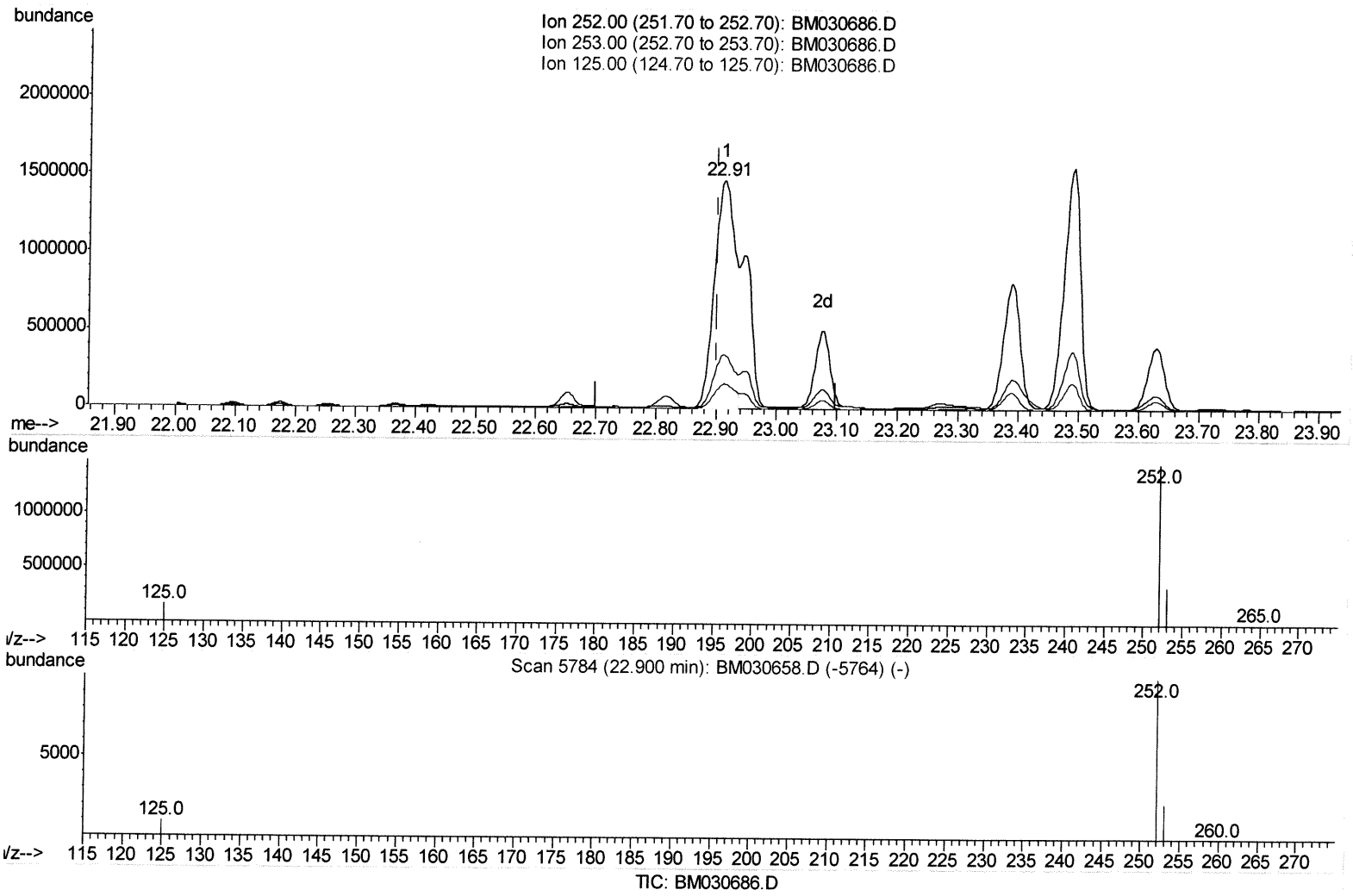
Ion	Exp%	Act%
252.00	100	100
253.00	28.90	23.60
125.00	16.60	10.93
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:15:47 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



(24) Benzo(b)fluoranthene

22.913min (+0.013) 59.84ng/ul m

response 3580018

JY 6/30/21

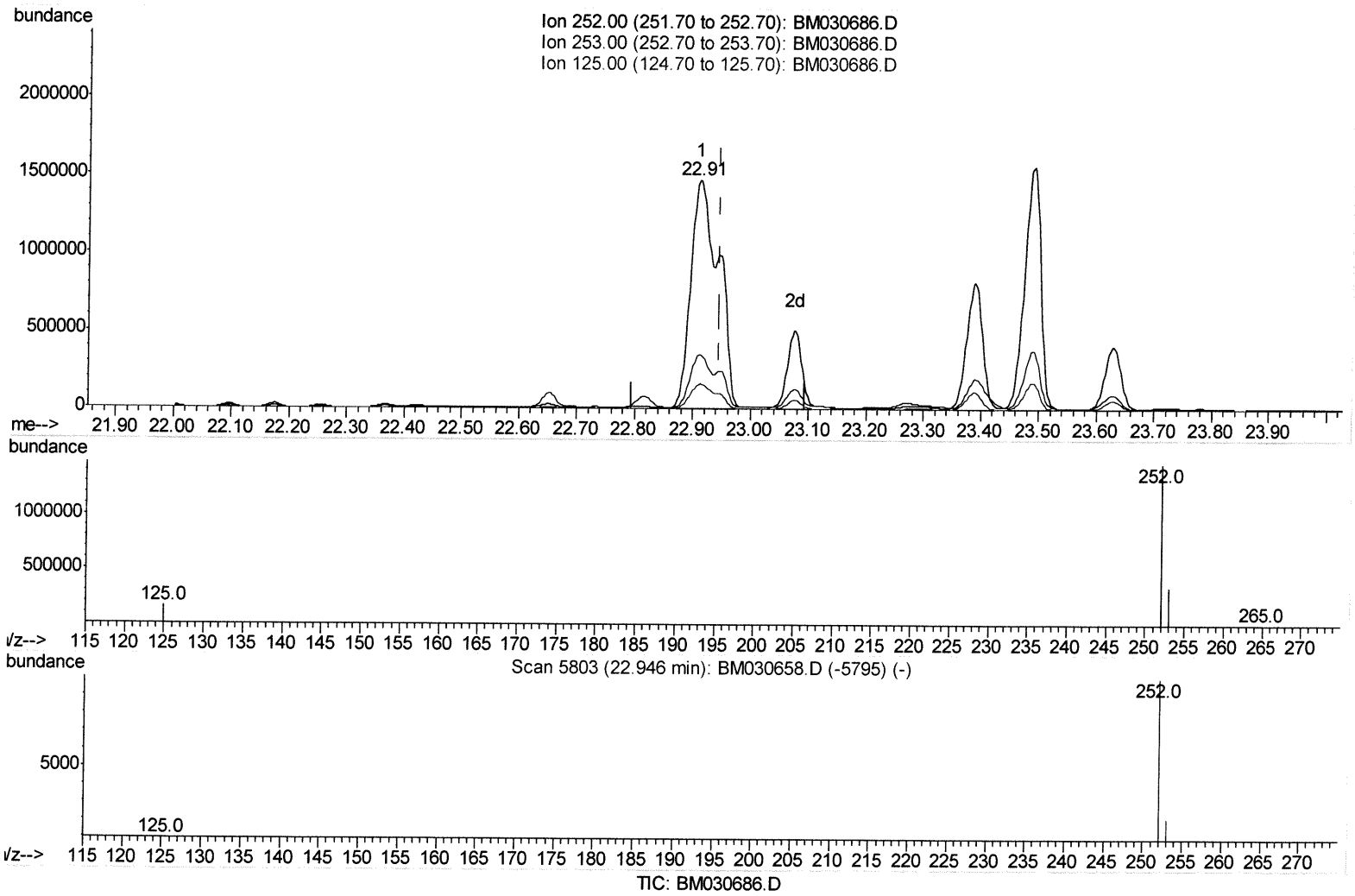
Ion	Exp%	Act%
252.00	100	100
253.00	28.90	23.60
125.00	16.60	10.93
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:15:47 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



(25) Benzo(k)fluoranthene

22.913min (-0.033) 79.18ng/ul

response 4883877

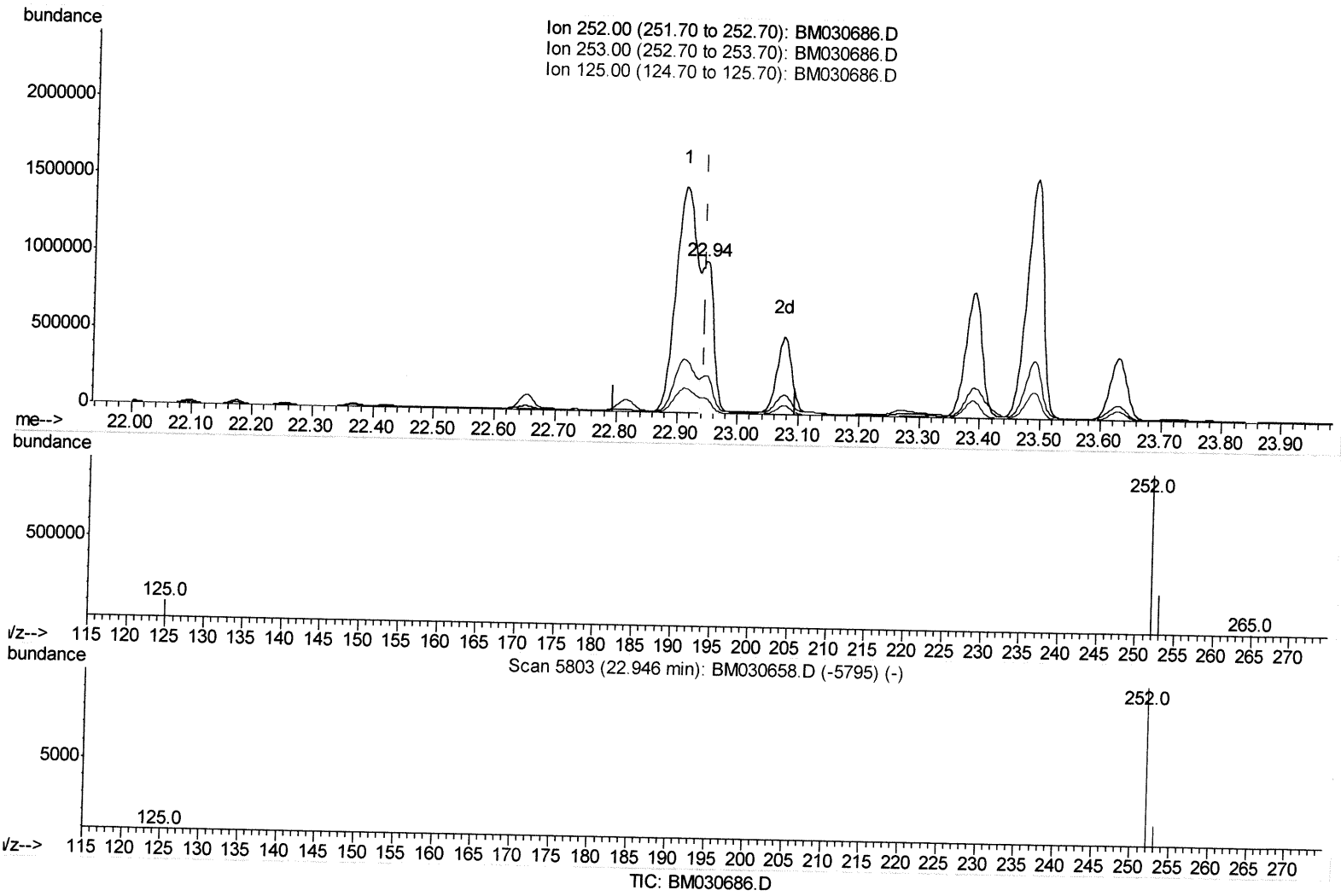
Ion	Exp%	Act%
252.00	100	100
253.00	29.00	23.60
125.00	15.80	10.93#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jun 29 13:15:47 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM



(25) Benzo(k)fluoranthene

22.944min (-0.002) 21.57ng/ul m JU 6/30/21

response 1330468

Ion	Exp%	Act%
252.00	100	100
253.00	29.00	24.47
125.00	15.80	10.08#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062821\
Data File : BM030686.D
Acq On : 29 Jun 2021 11:53
Operator : CG/JU
Sample : M2680-06 5X
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BGDD2

Manual Integrations APPROVED
mohammad
6/30/2021 10:24:48 AM

Quant Time: Jun 29 13:16:35 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SFAM-EPA-SIM-BM062821.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 28 14:33:12 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	2213	0.40	ng/ul	0.00
4) Naphthalene-d8	10.57	136	8265	0.40	ng/ul	0.00
9) Acenaphthene-d10	14.41	164	4635m	0.40	ng/ul	0.00
13) Phenanthrene-d10	17.15	188	10210	0.40	ng/ul	0.00
17) Chrysene-d12	21.33	240	12725	0.40	ng/ul	0.00
23) Perylene-d12	23.58	264	13507m	0.40	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.28	96	1410	0.58	ng/ul	0.00
6) 2-Methylnaphthalene-d10	12.16	152	506	0.04	ng/ul	0.00
18) Fluoranthene-d10	19.17	212	1456m	0.04	ng/ul	0.01
Target Compounds						Qvalue
5) Naphthalene	10.62	128	690224	29.307	ng/ul	97
7) 2-Methylnaphthalene	12.23	142	288645	18.207	ng/ul	100
8) 1-Methylnaphthalene	12.45	142	518735	33.627	ng/ul	100
10) Acenaphthylene	14.13	152	422899	20.439	ng/ul	98
11) Acenaphthene	14.48	153	2252028	134.321	ng/ul	96
12) Fluorene	15.46	166	2006585	108.496	ng/ul	99
15) Phenanthrene	17.21	178	9155640m	266.744	ng/ul	99
16) Anthracene	17.29	178	3679351	122.404	ng/ul	99
19) Fluoranthene	19.22	202	8939205	159.159	ng/ul#	93
20) Pyrene	19.58	202	7271687	128.753	ng/ul#	93
21) Benzo(a)anthracene	21.31	228	3712643	73.192	ng/ul#	88
22) Chrysene	21.36	228	2927159	51.515	ng/ul	95
24) Benzo(b)fluoranthene	22.91	252	3580018m	59.841	ng/ul	96
25) Benzo(k)fluoranthene	22.94	252	1330468m	21.571	ng/ul	96
26) Benzo(a)pyrene	23.49	252	2999445	58.946	ng/ul#	84
27) Indeno(1,2,3-cd)pyrene	25.87	276	1678525	25.322	ng/ul#	94
28) Dibenzo(a,h)anthracene	25.87	278	433020	8.140	ng/ul	96
29) Benzo(g,h,i)perylene	26.57	276	1304484	22.650	ng/ul	96

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