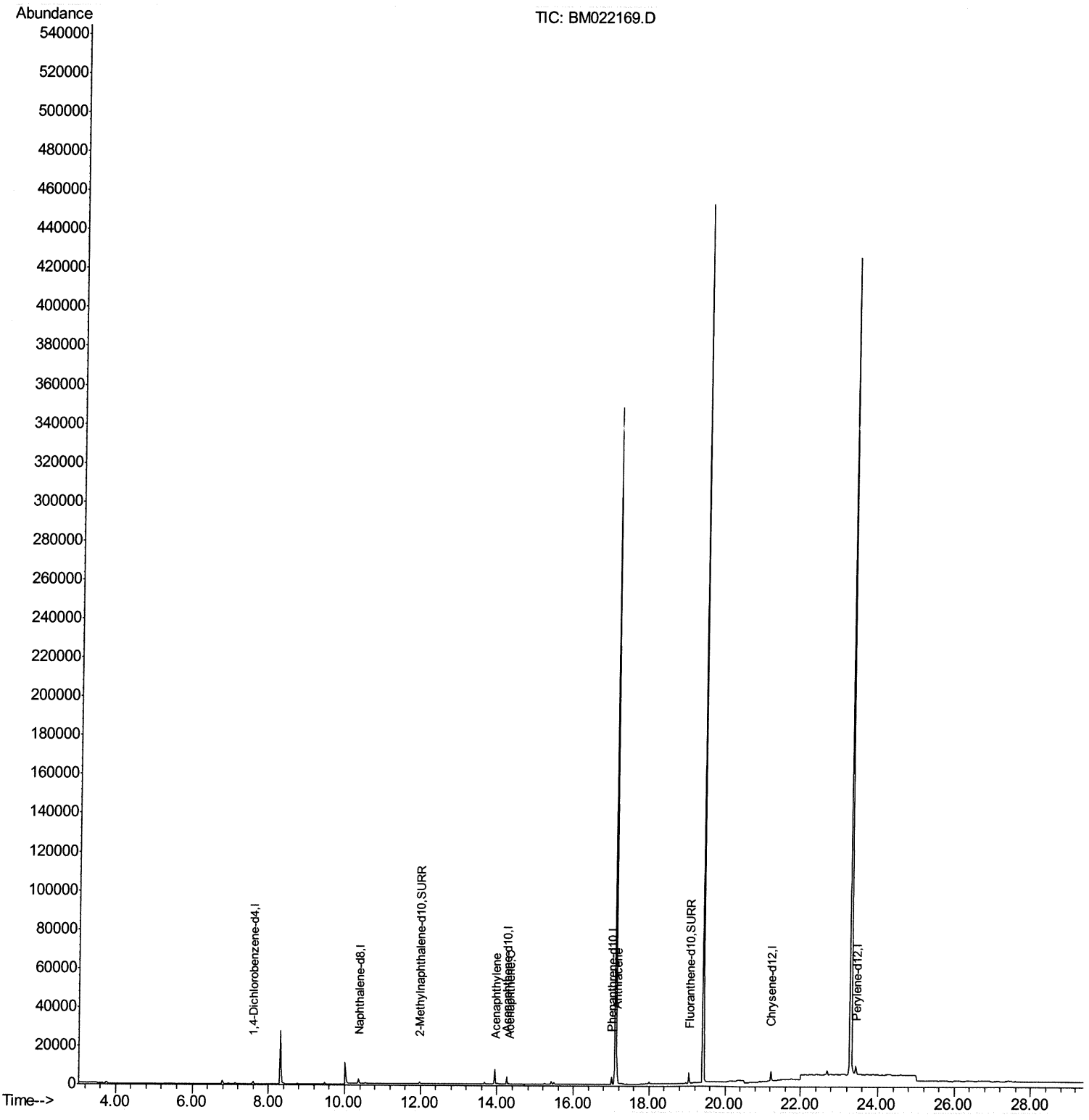
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 16 16:22:24 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM

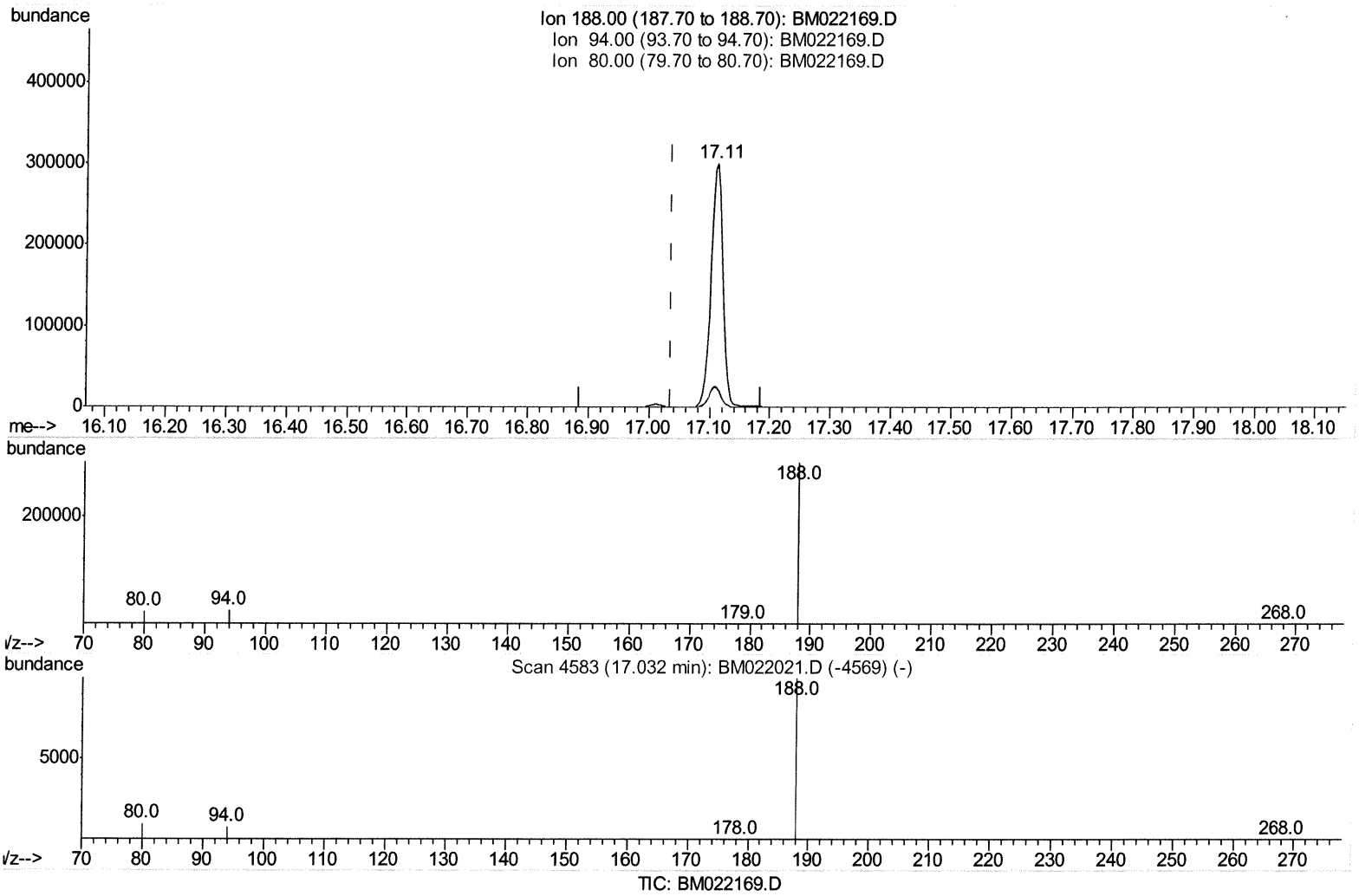


Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 16 16:19:27 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM



TIC: BM022169.D

(10) Phenanthrene-d10 (I)

17.112min (+0.076) 0.40ng/ul

response 406792

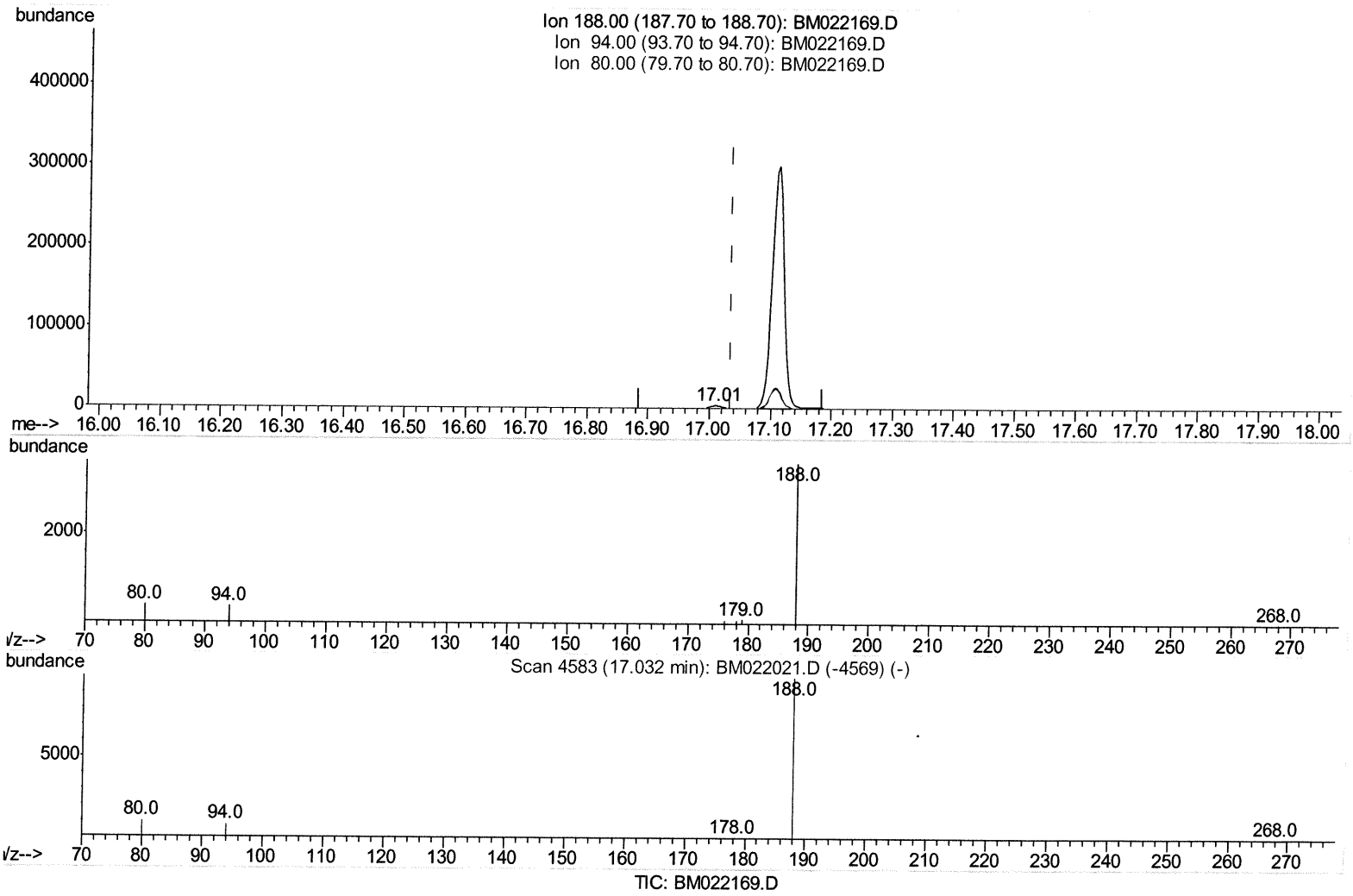
Ion	Exp%	Act%
188.00	100	100
94.00	10.40	8.31#
80.00	11.40	7.77#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 16 16:19:27 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM



(10) Phenanthrene-d10 (I)

17.011min (-0.024) 0.40ng/ul m JU 08/20/19

response 5009

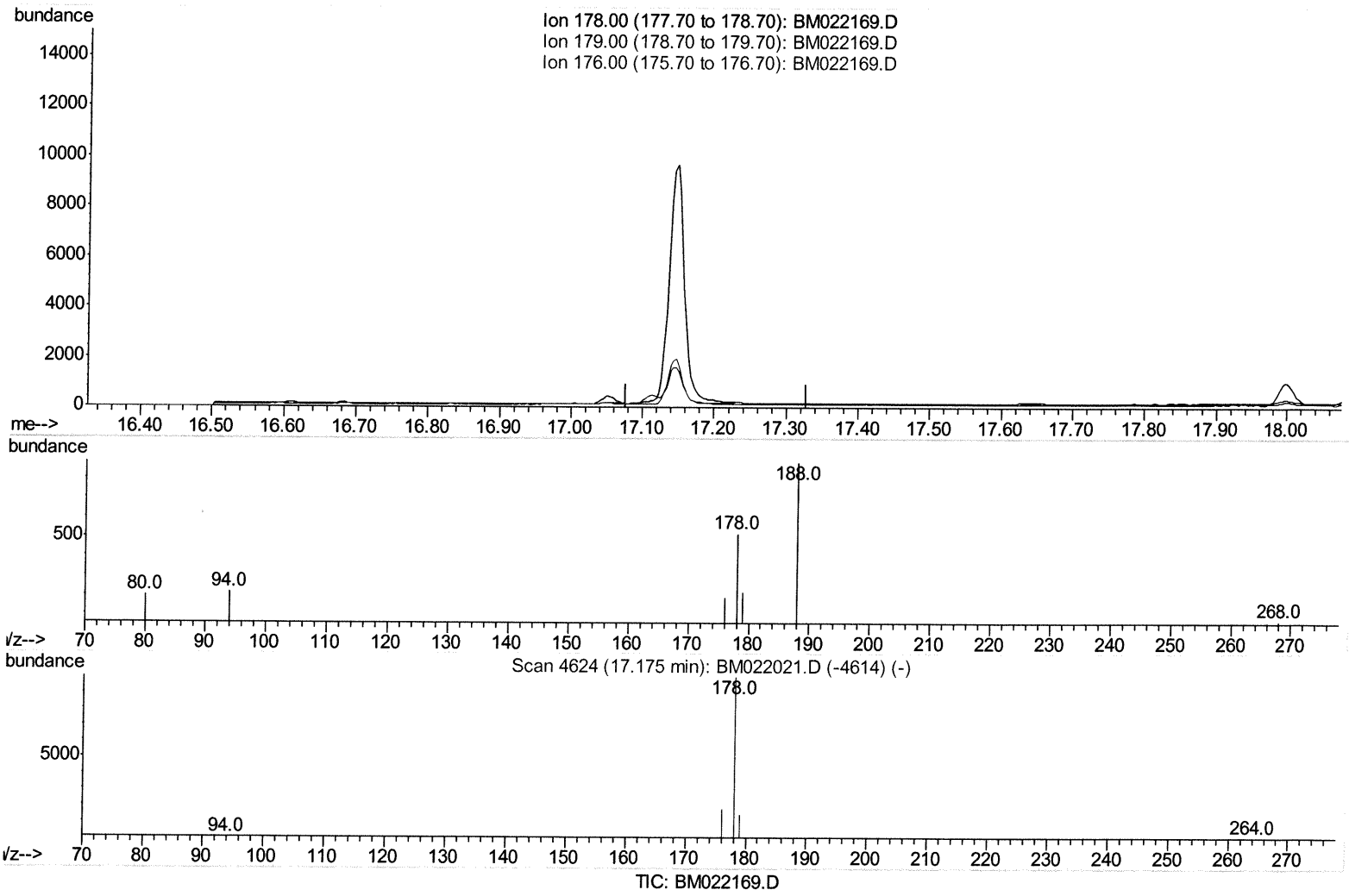
Ion	Exp%	Act%
188.00	100	100
94.00	10.40	11.57
80.00	11.40	12.05
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 16 16:19:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM



(13) Anthracene

17.178min (-17.178) 0.00ng/ul

response 0

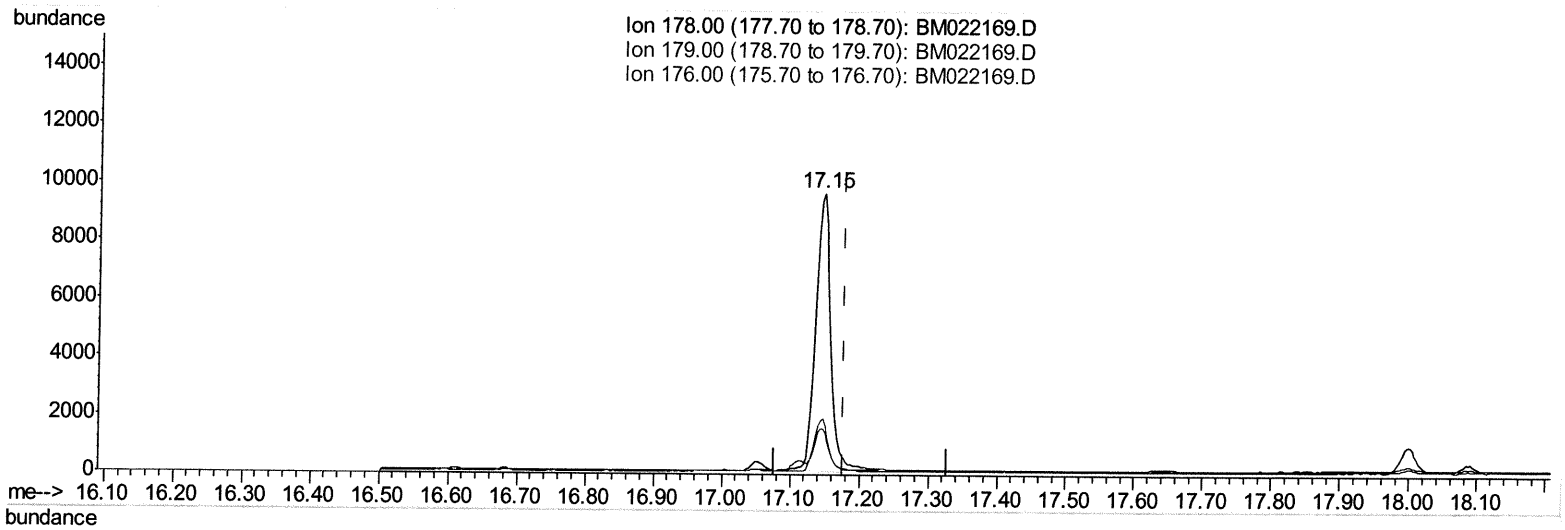
Ion	Exp%	Act%
178.00	100	0.00
179.00	19.40	0.00#
176.00	20.80	0.00#
0.00	0.00	0.00

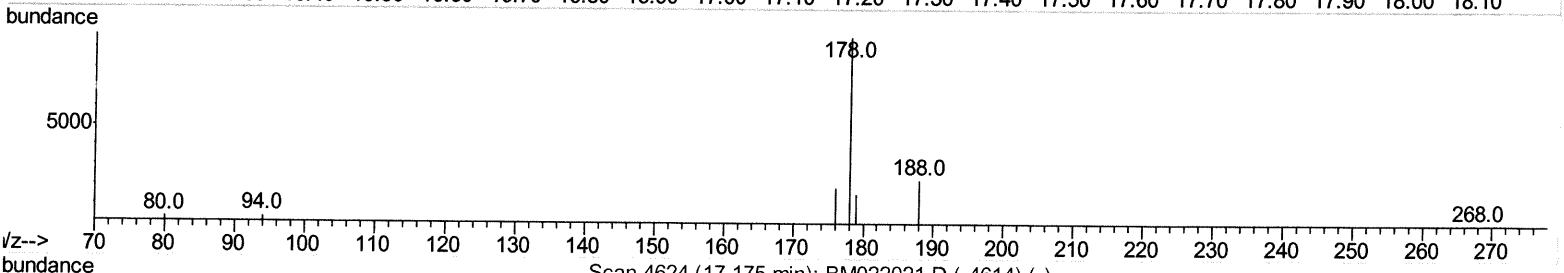
Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

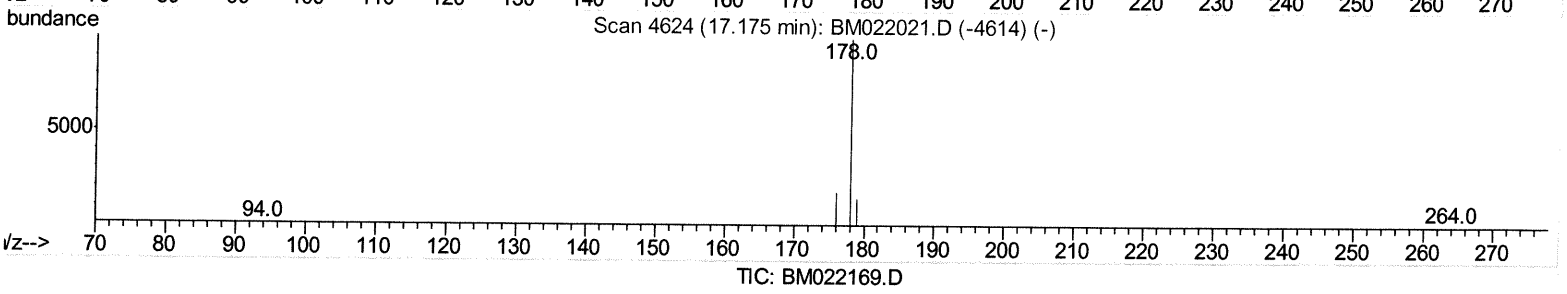
Quant Time: Aug 16 16:19:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM







TIC: BM022169.D

(13) Anthracene

17.147min (-0.031) 1.18ng/ul m JU 08/20/19

response 14712

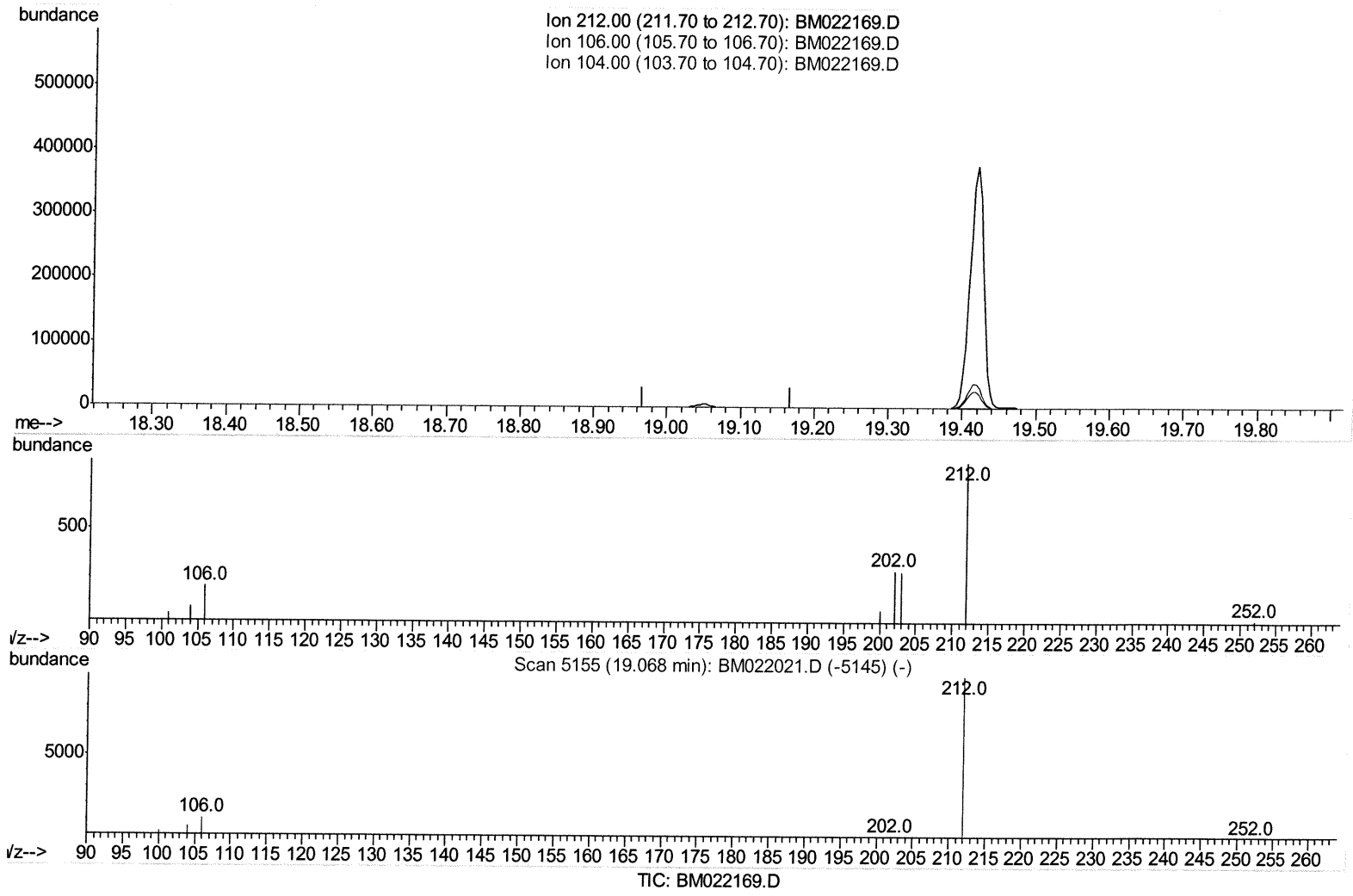
Ion	Exp%	Act%
178.00	100	100
179.00	19.40	16.51
176.00	20.80	19.83
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 16 16:19:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM



(14) Fluoranthene-d10 (SURR)

19.068min (-19.068) 0.00ng/ul

response 0

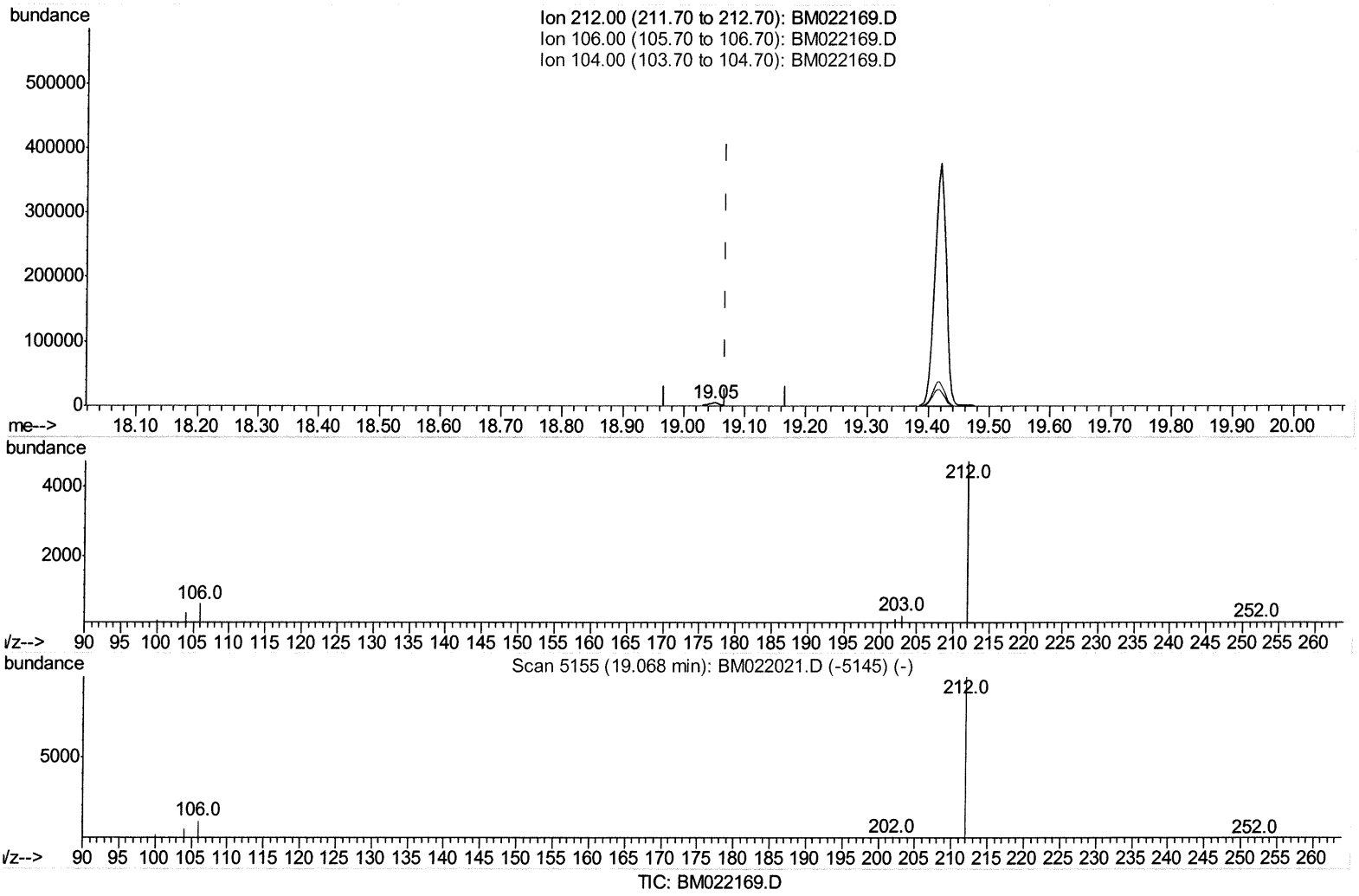
Ion	Exp%	Act%
212.00	100	0.00
106.00	9.90	0.00#
104.00	6.00	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 16 16:19:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM



(14) Fluoranthene-d10 (SURR)

19.049min (-0.019) 0.38ng/ul m JU 8/20/19

response 6473

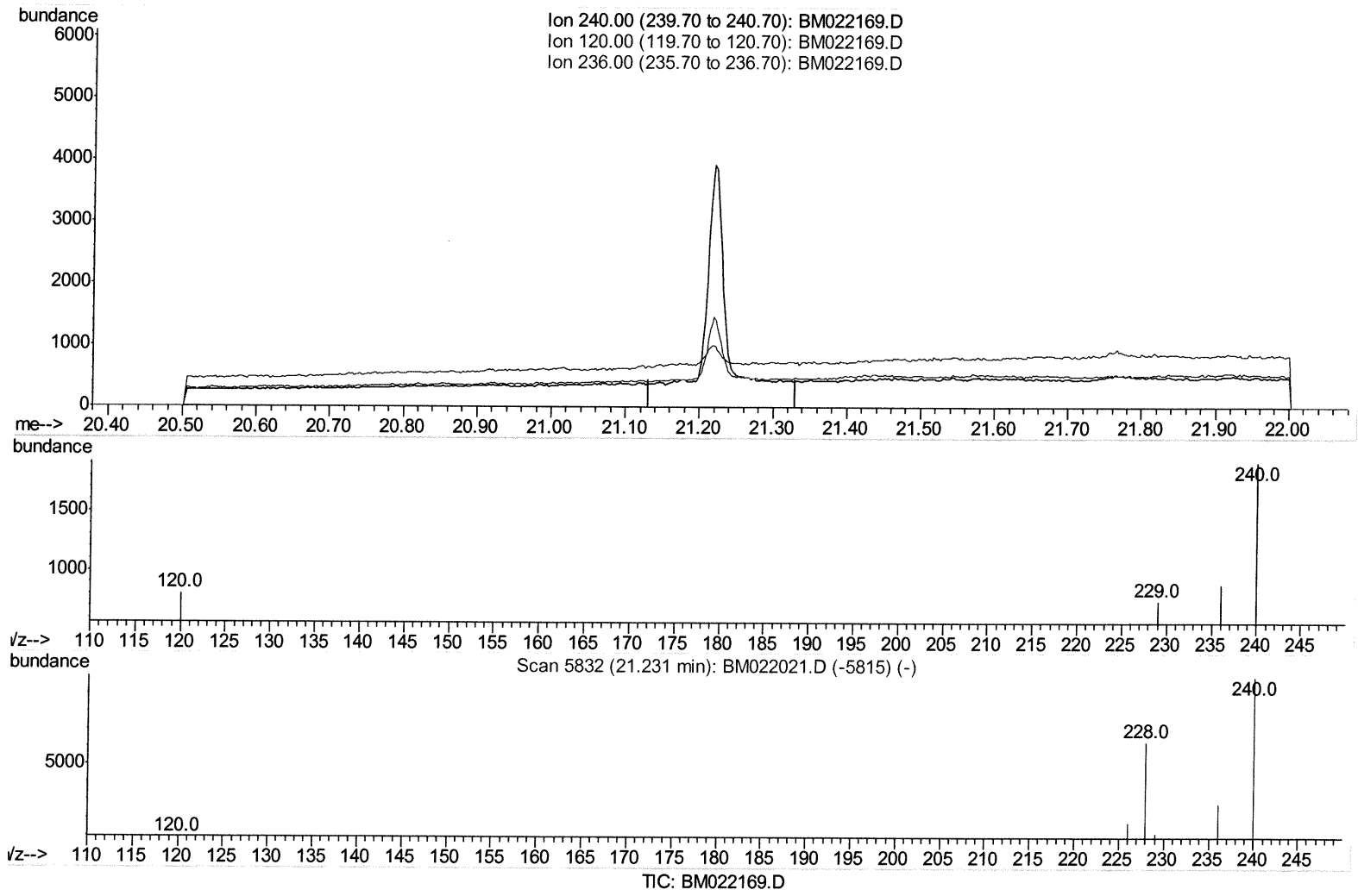
Ion	Exp%	Act%
212.00	100	100
106.00	9.90	0.00#
104.00	6.00	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 16 16:20:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM



Scan 5832 (21.231 min): BM022021.D (-5815) (-)

TIC: BM022169.D

(16) Chrysene-d12 (I)

21.231min (-21.231) 0.00ng/ul

response 0

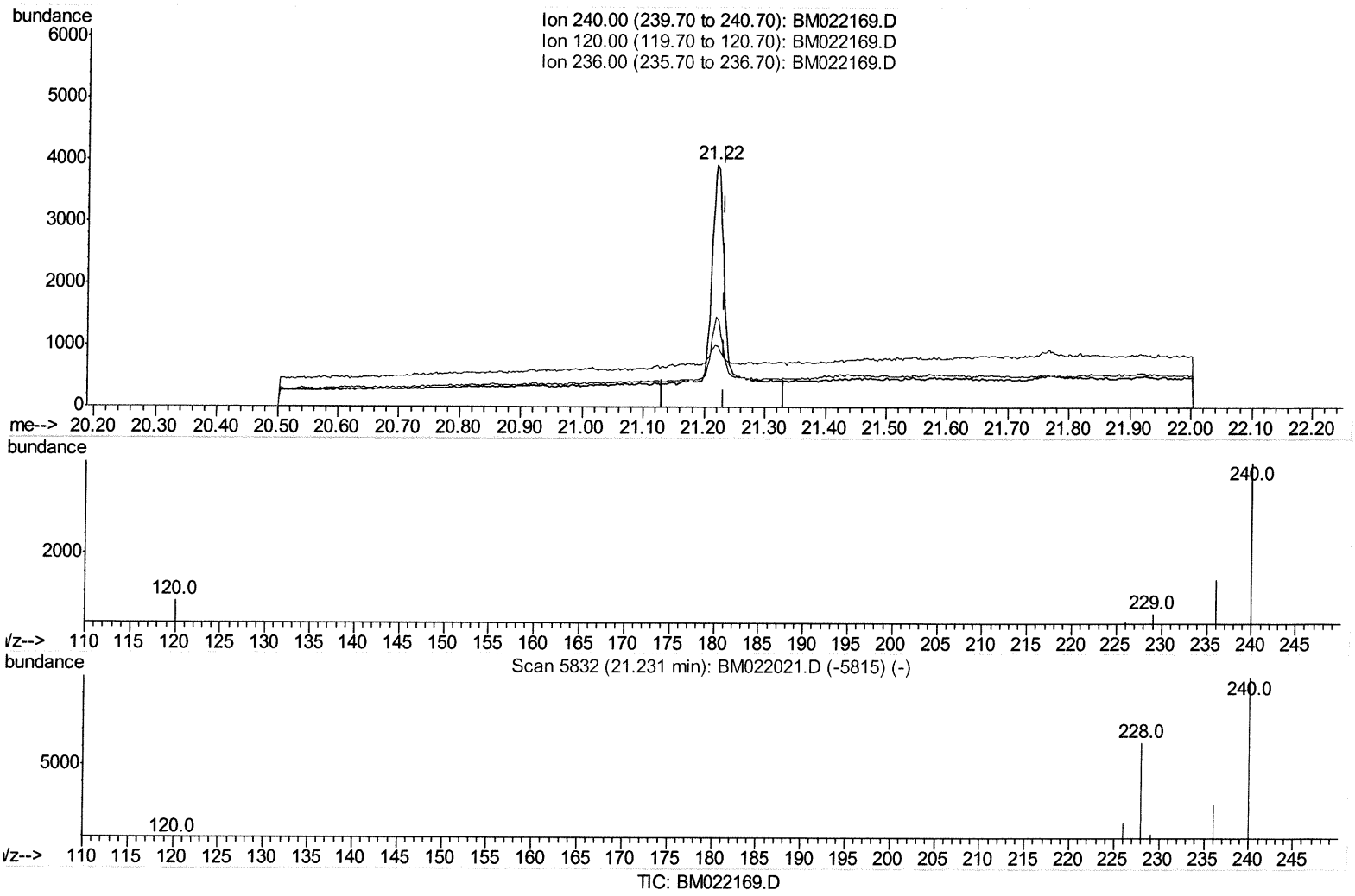
Ion	Exp%	Act%
240.00	100	0.00
120.00	16.20	0.00#
236.00	32.30	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Aug 16 16:20:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM



(16) Chrysene-d12 (I)

21.219min (-0.012) 0.40ng/ul m JU 08/20/19

response 4710

Ion	Exp%	Act%
240.00	100	100
120.00	16.20	25.40#
236.00	32.30	37.35
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA M\Data\BM081519\
Data File : BM022169.D
Acq On : 16 Aug 2019 06:45
Operator : HP/JU
Sample : K4337-05
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AE8

Manual Integrations APPROVED
mohammad
8/19/2019 10:46:35 AM

Quant Time: Aug 16 16:22:24 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 16 14:59:47 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	882	0.40	ng/ul	-0.02
2) Naphthalene-d8	10.37	136	3644	0.40	ng/ul	-0.03
6) Acenaphthene-d10	14.25	164	2091	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.01	188	5009m→	0.40	ng/ul>	-0.02
16) Chrysene-d12	21.22	240	4710m→	0.40	ng/ul>	-0.01
20) Perylene-d12	23.43	264	6052	0.40	ng/ul	-0.01
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.98	152	2255	0.38	ng/ul	-0.03
14) Fluoranthene-d10	19.05	212	6473m→	0.38	ng/ul>	-0.02
Target Compounds						Qvalue
7) Acenaphthylene	13.97	152	371	0.038	ng/ul#	63
8) Acenaphthene	14.31	153	400	0.050	ng/ul	94
13) Anthracene	17.15	178	14712m→	1.183	ng/ul>	

JU 08/20/19

JU 08/20/19

JU 08/20/19

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