

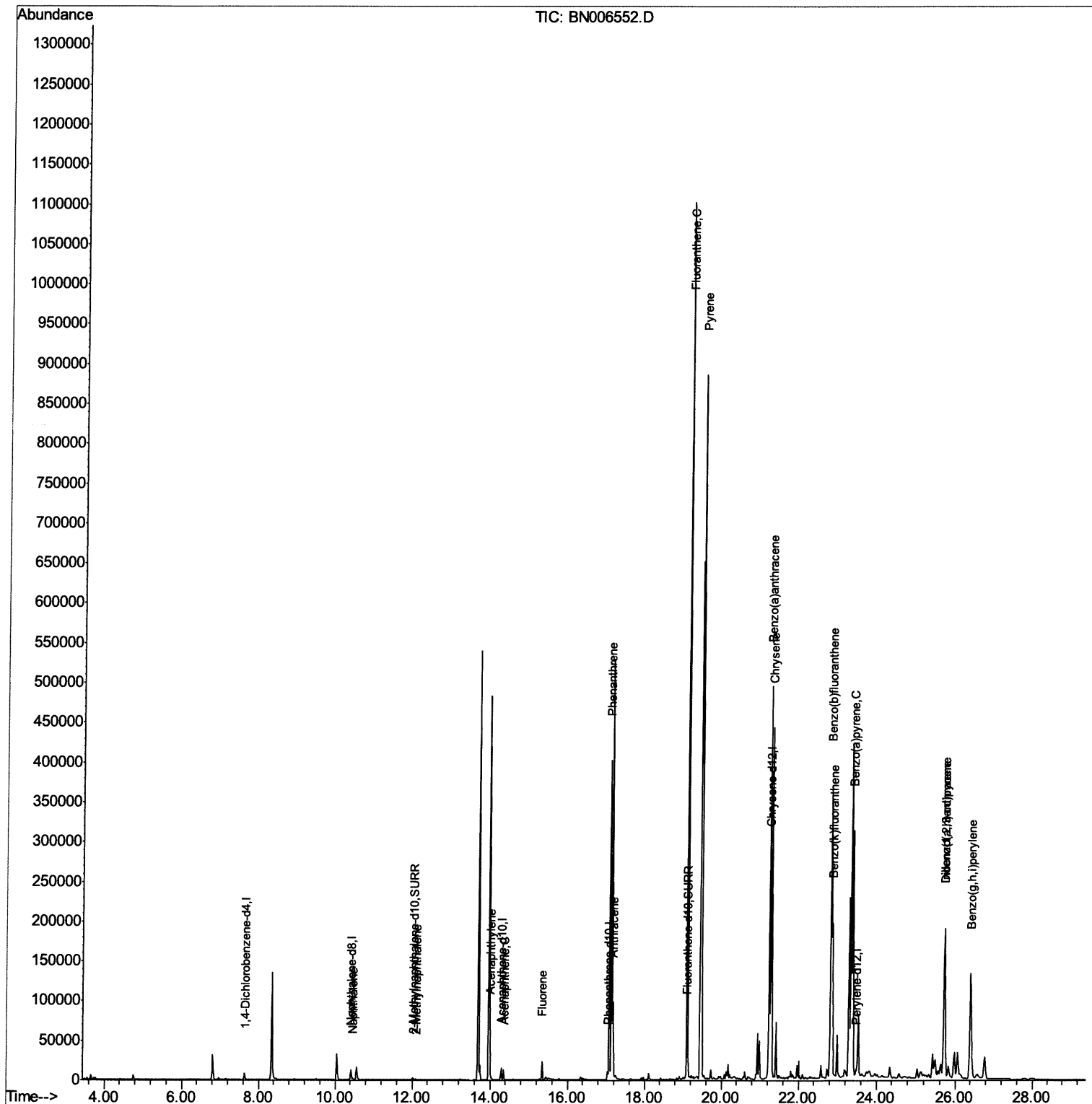
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
Data File : BN006552.D
Acq On : 25 Jun 2019 03:32
Operator : HP/JU
Sample : K3388-07
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A4218

Manual Integrations
APPROVED

mohammad
6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:25:42 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 25 01:51:13 2019
Response via : Initial Calibration



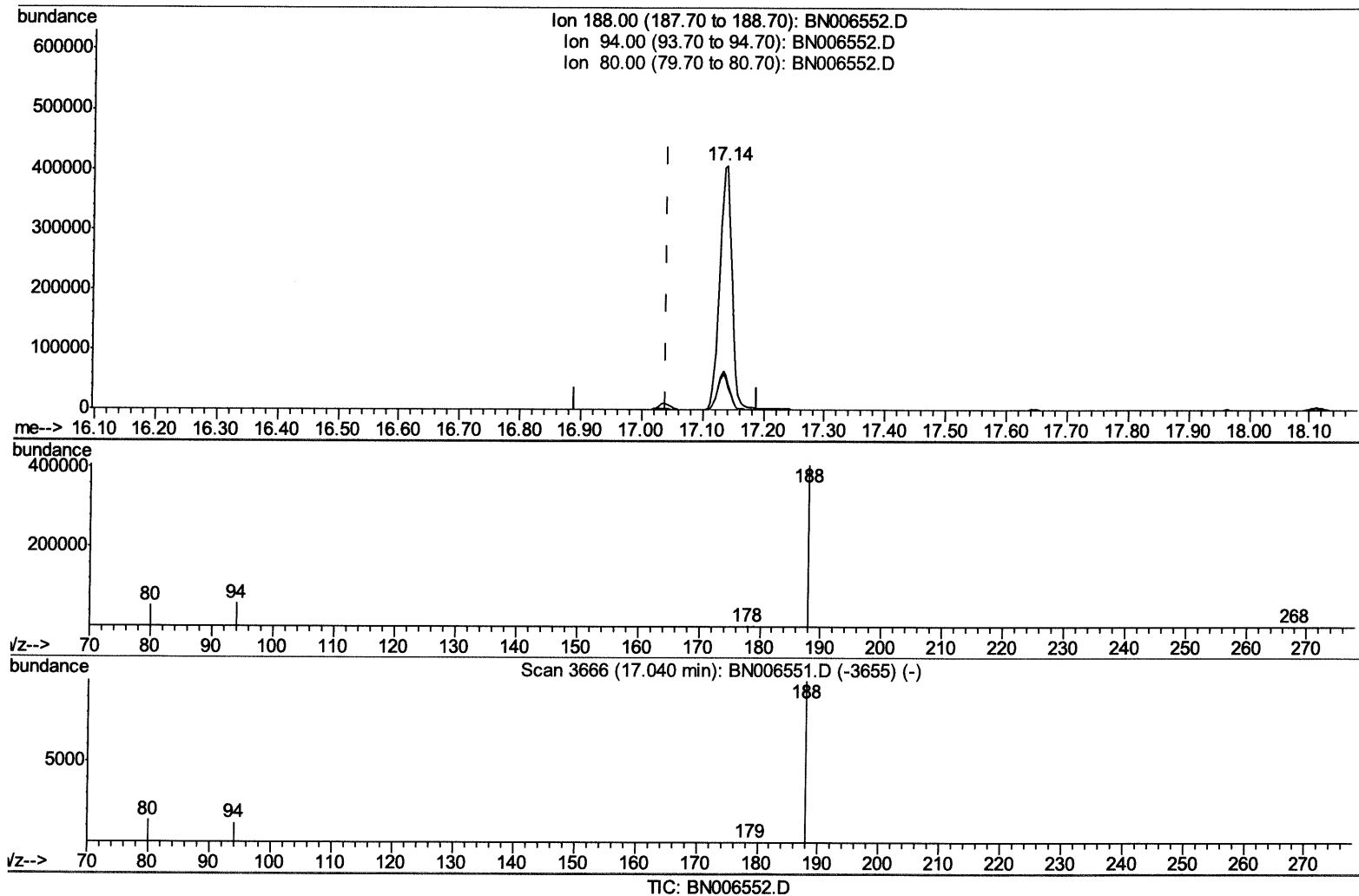
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
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Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 04:10:21 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.137min (+0.097) 0.40ng/ul

response 566263

Ion	Exp%	Act%
188.00	100	100
94.00	13.00	14.18
80.00	13.60	12.73
0.00	0.00	0.00

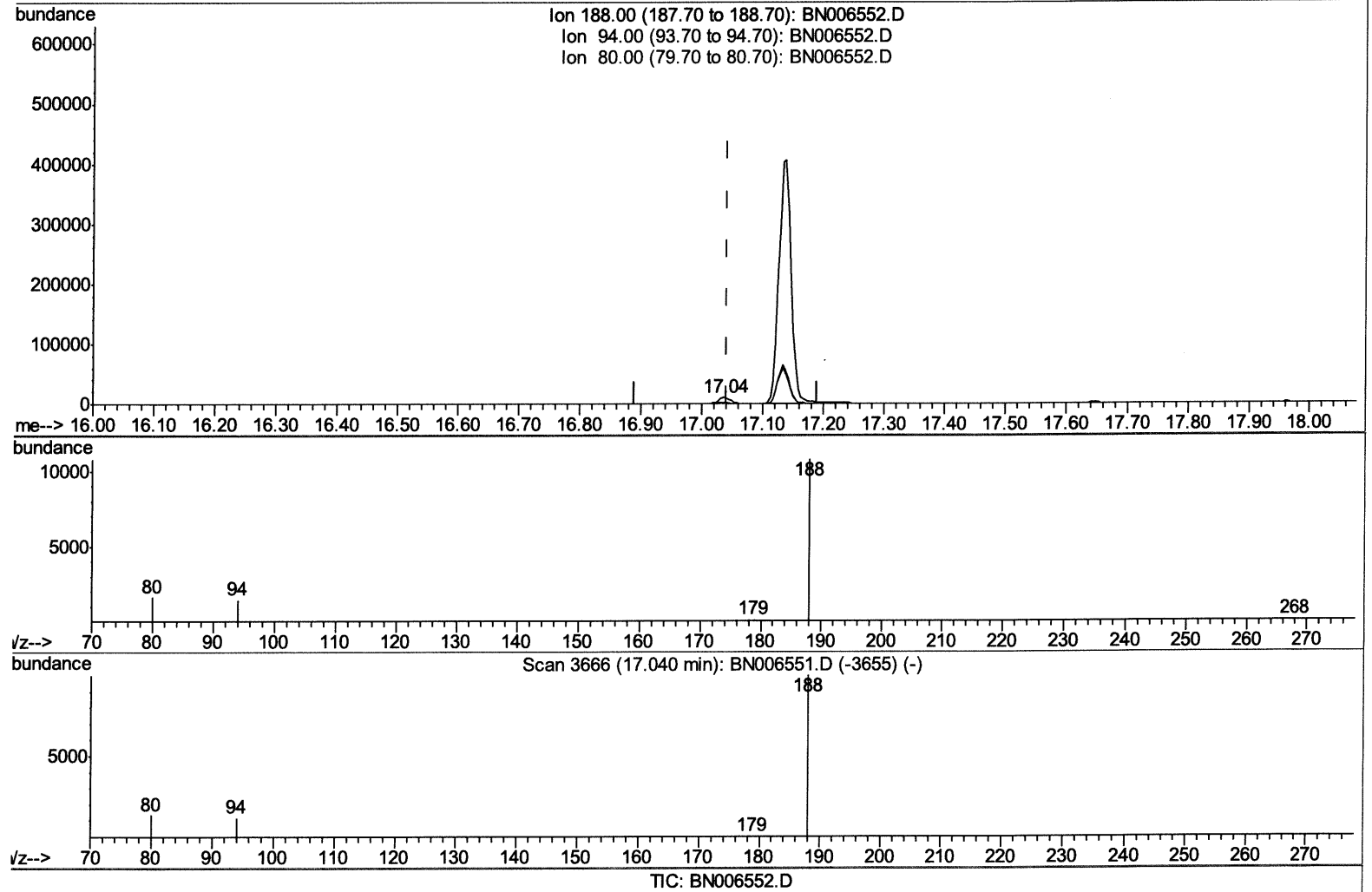
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
Data File : BN006552.D
Acq On : 25 Jun 2019 03:32
Operator : HP/JU
Sample : K3388-07
Misc :
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Instrument :
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Manual Integrations
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mohammad
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Quant Time: Jun 25 04:10:21 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 25 01:51:13 2019
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.035min (-0.004) 0.40ng/ul m 06/26/19

response 14808

Ion	Exp%	Act%
188.00	100	100
94.00	13.00	13.73
80.00	13.60	15.25
0.00	0.00	0.00

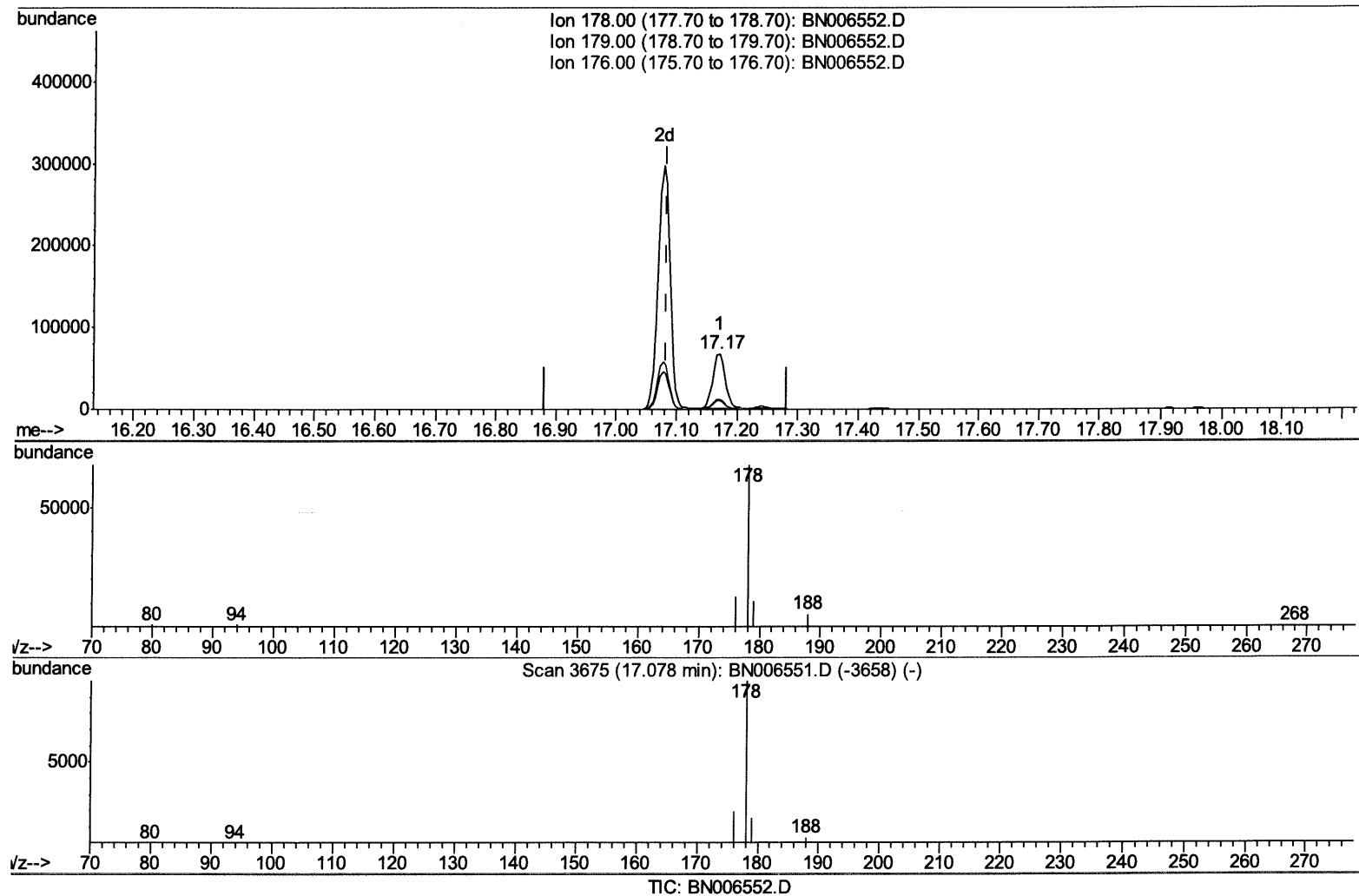
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
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Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:22:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration



(12) Phenanthrene

17.170min (+0.089) 2.05ng/ul

response 97611

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	15.64
176.00	19.10	18.84
0.00	0.00	0.00

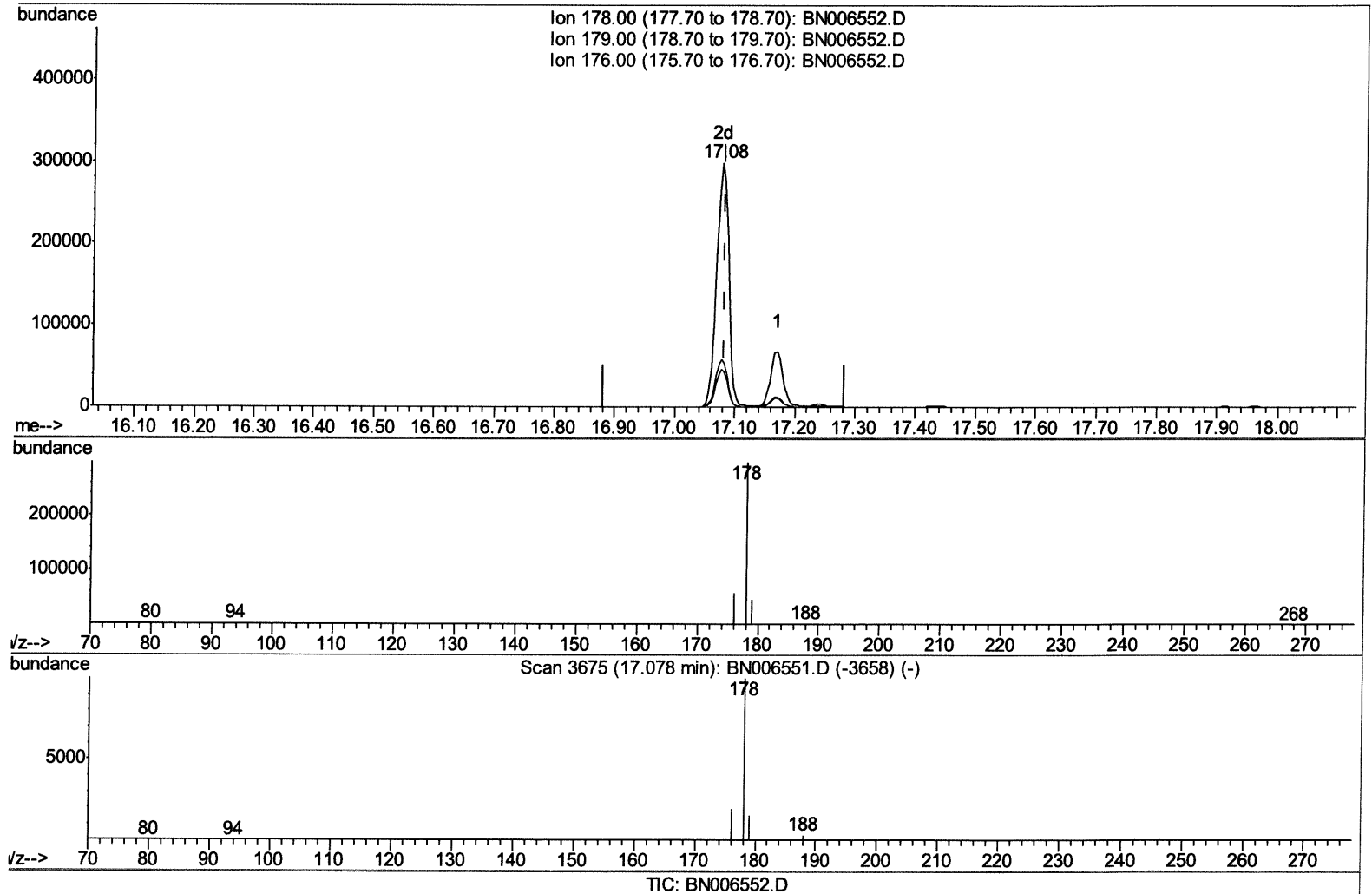
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
 APPROVED

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 Response via : Initial Calibration



(12) Phenanthrene

17.078min (-0.004) 8.75ng/ul m *JU* 06/26/19

response 415768

Ion	Exp%	Act%
178.00	100	100
179.00	15.40	15.30
176.00	19.10	19.54
0.00	0.00	0.00

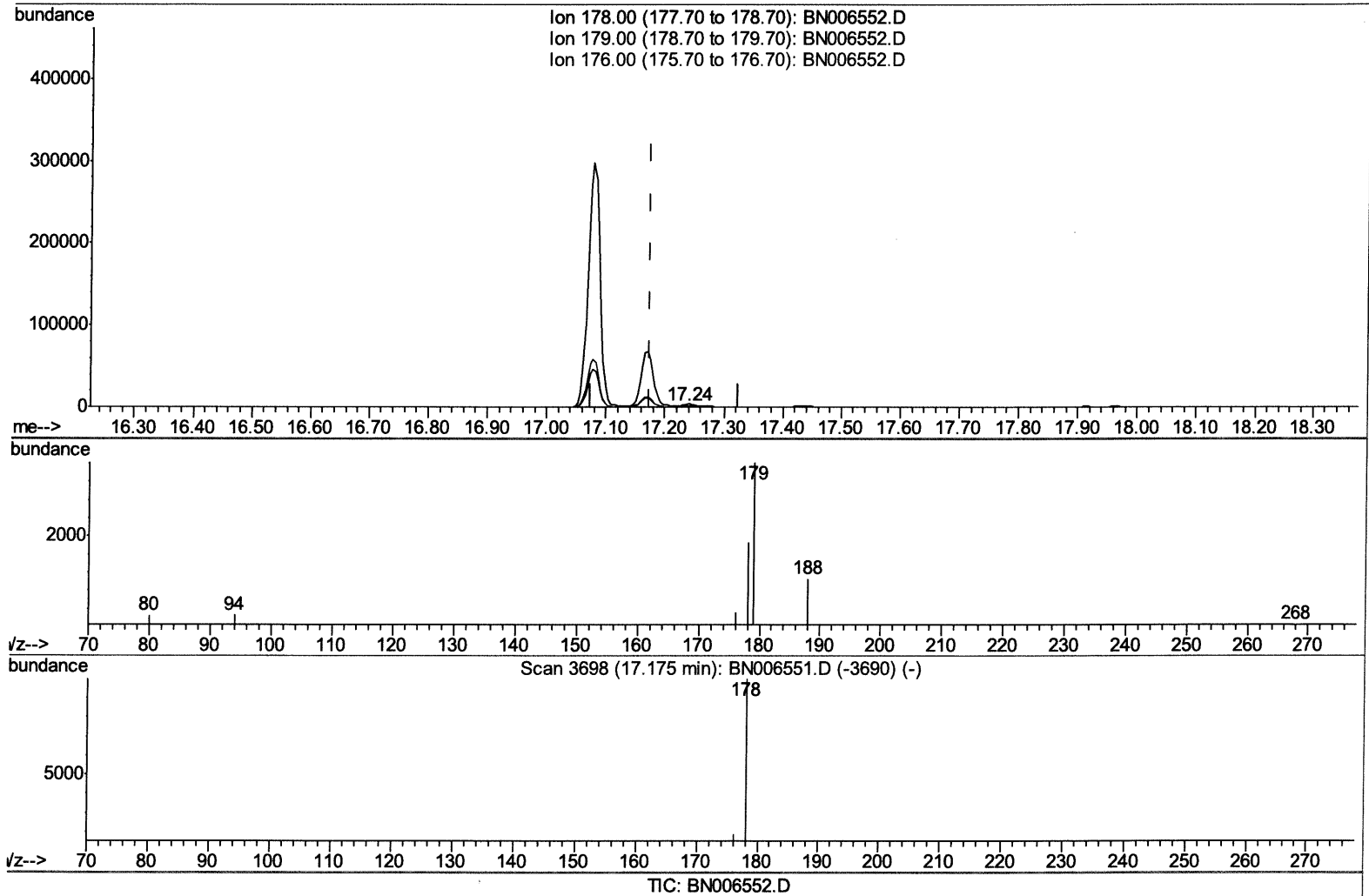
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
Data File : BN006552.D
Acq On : 25 Jun 2019 03:32
Operator : HP/JU
Sample : K3388-07
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Manual Integrations
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 25 01:51:13 2019
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(13) Anthracene

17.238min (+0.063) 0.09ng/ul

response 3871

Ion	Exp%	Act%
178.00	100	100
179.00	15.30	194.21#
176.00	18.90	17.17
0.00	0.00	0.00

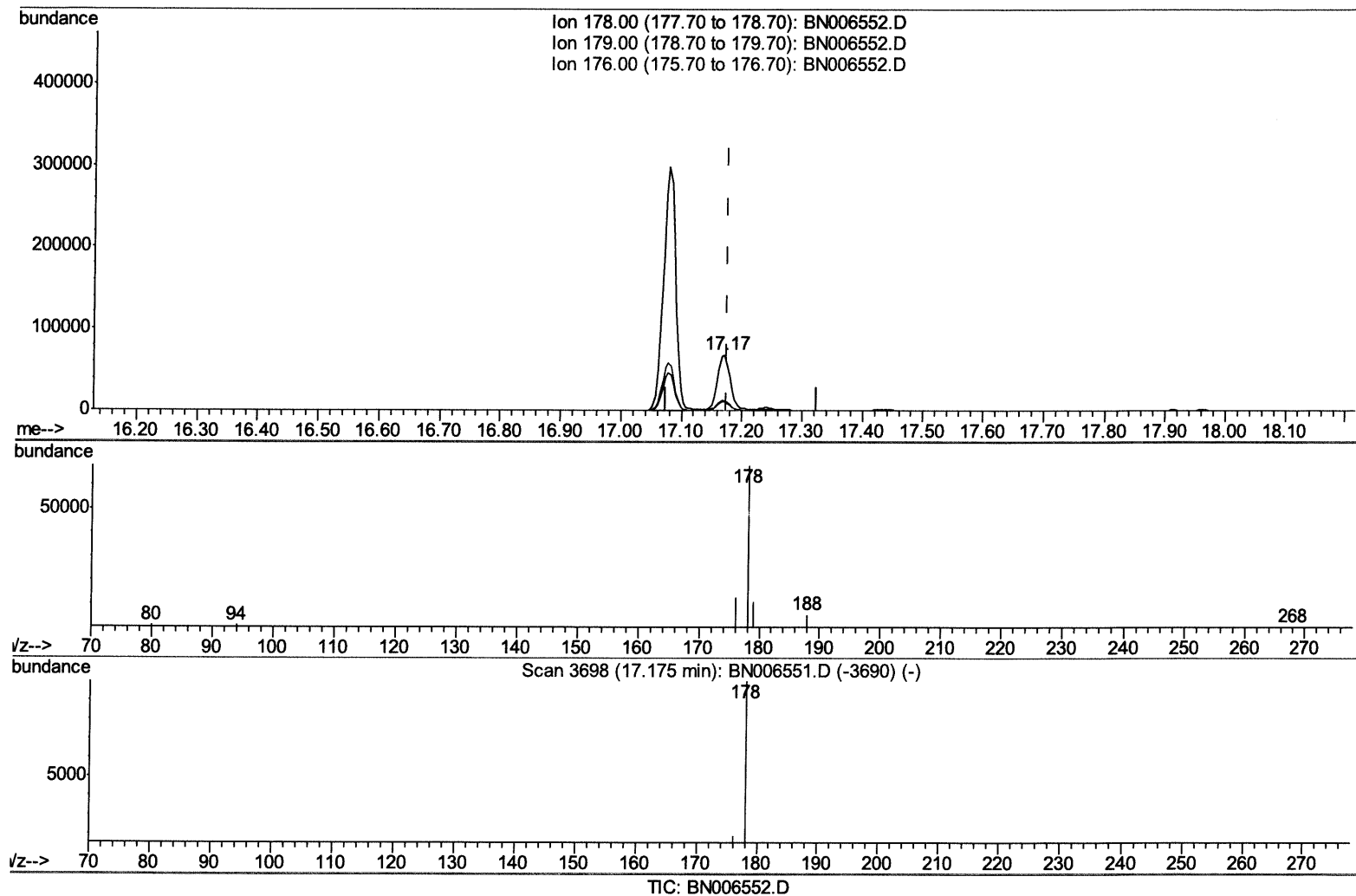
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
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 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
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(13) Anthracene

17.170min (-0.004) 2.28ng/ul m *JU 06/26/19*

response 103533

Ion	Exp%	Act%
178.00	100	100
179.00	15.30	15.64
176.00	18.90	18.84
0.00	0.00	0.00

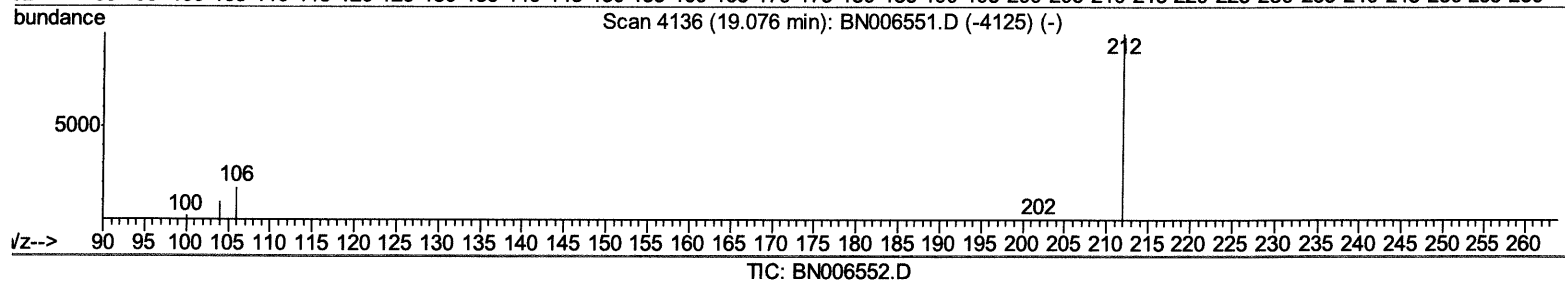
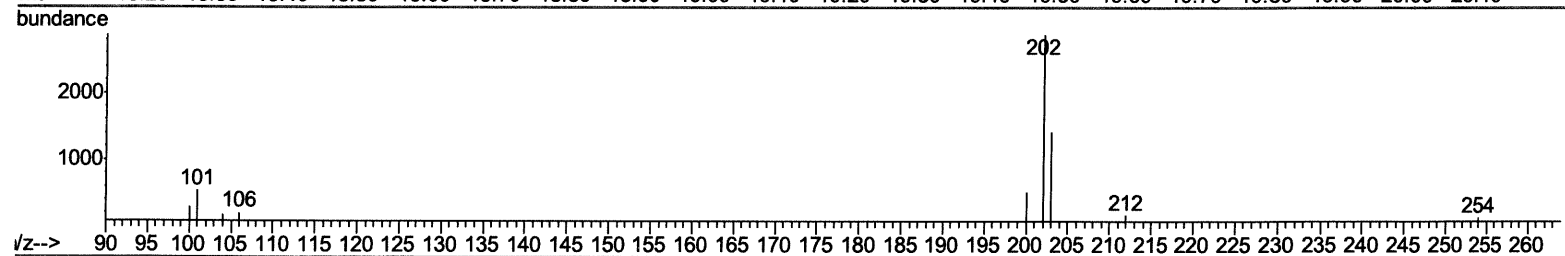
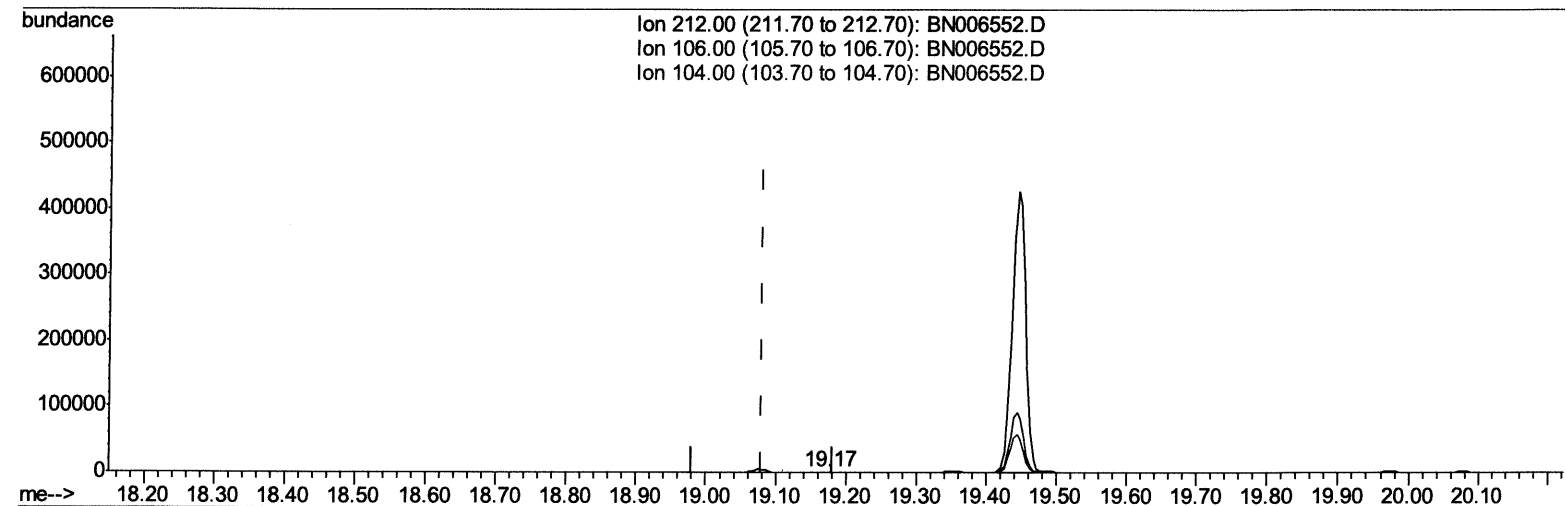
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
 APPROVED

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Quant Time: Jun 25 07:22:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
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(14) Fluoranthene-d10 (SURR)

19.174min (+0.093) 0.00ng/ul

response 114

Ion	Exp%	Act%
212.00	100	100
106.00	18.10	62.28#
104.00	9.90	35.09#
0.00	0.00	0.00

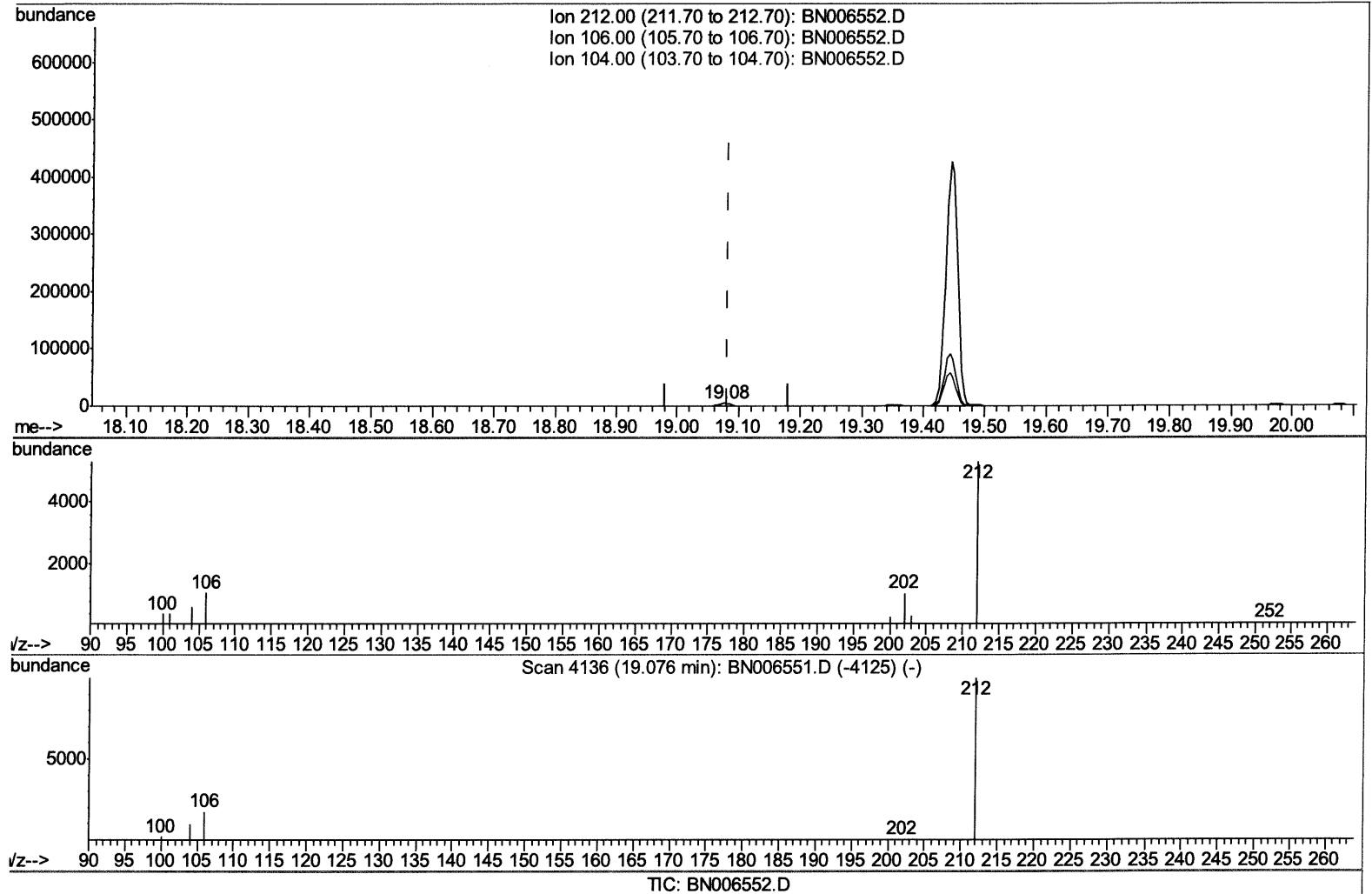
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
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mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:22:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
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 Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.076min (-0.005) 0.18ng/ul m

JU
 06/26/19

response 7230

Ion	Exp%	Act%
212.00	100	100
106.00	18.10	0.98#
104.00	9.90	0.55#
0.00	0.00	0.00

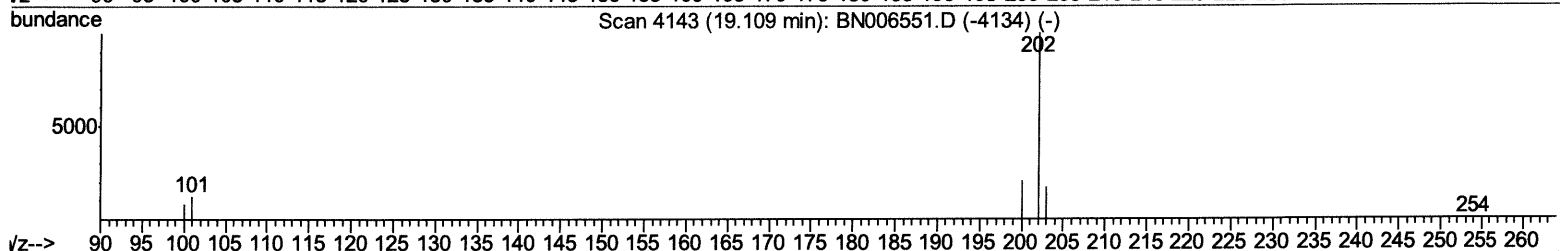
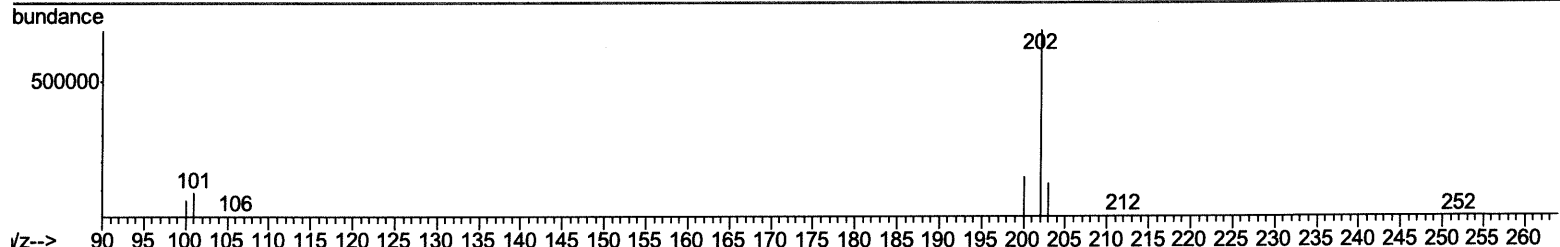
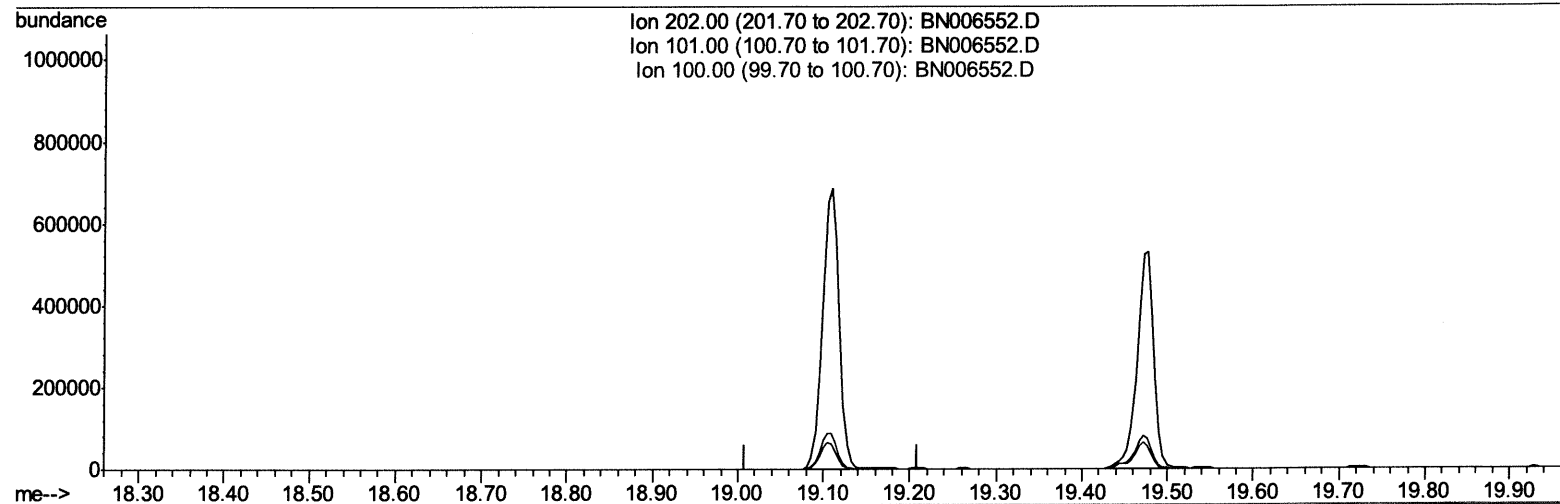
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:22:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration



TIC: BN006552.D

(15) Fluoranthene (C)

19.109min (-19.109) 0.00ng/ul

response 0

Ion	Exp%	Act%
202.00	100	0.00
101.00	12.10	0.00
100.00	8.70	0.00
0.00	0.00	0.00

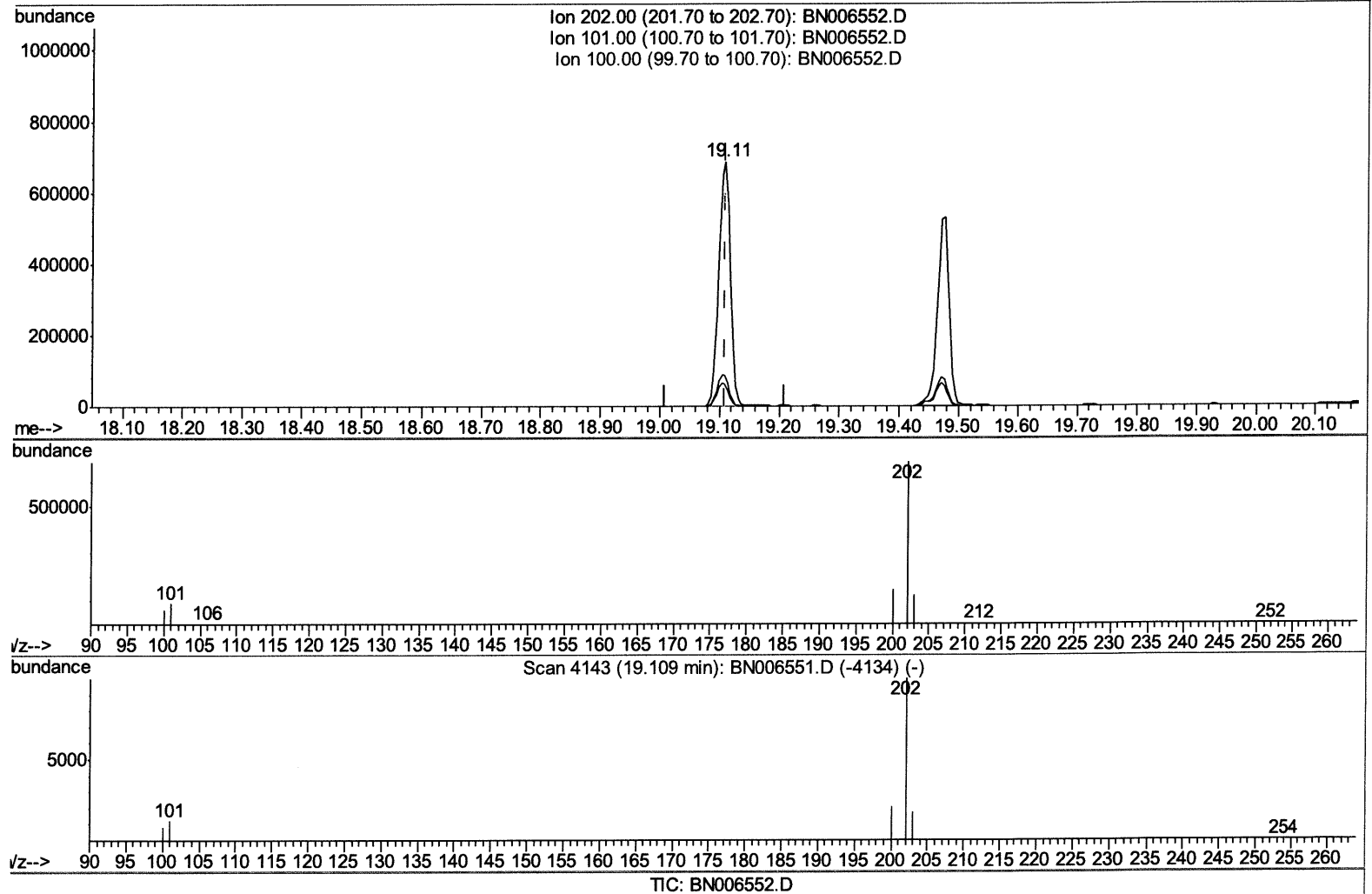
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:22:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration



(15) Fluoranthene (C)

19.109min (+0.000) 17.84ng/ul m *JU* 06/26/19

response 936619

Ion	Exp%	Act%
202.00	100	100
101.00	12.10	12.77
100.00	8.70	9.24
0.00	0.00	0.00

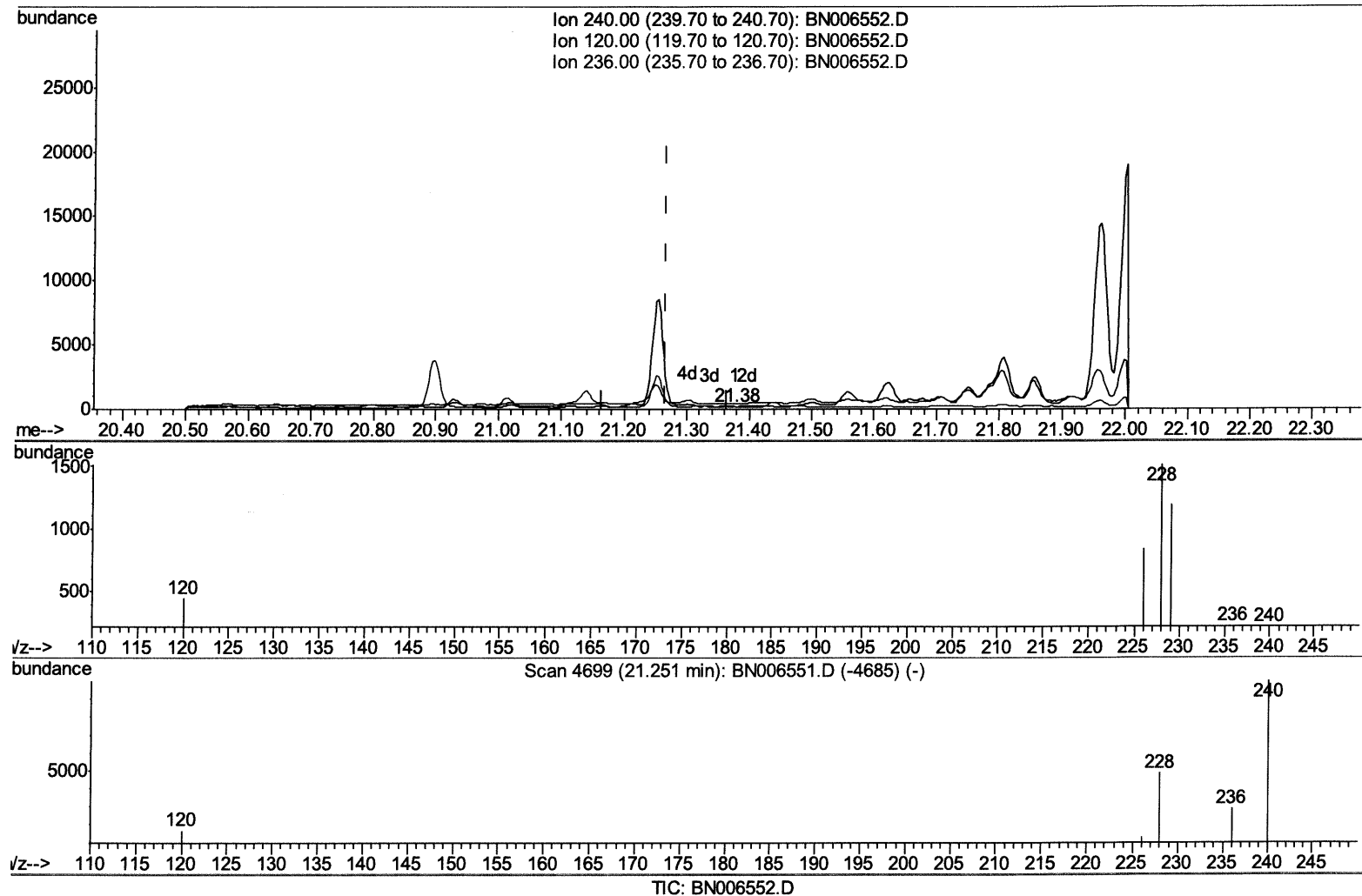
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:22:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.376min (+0.111) 0.40ng/ul

response 45

Ion	Exp%	Act%
240.00	100	100
120.00	20.10	204.09#
236.00	30.10	100.91#
0.00	0.00	0.00

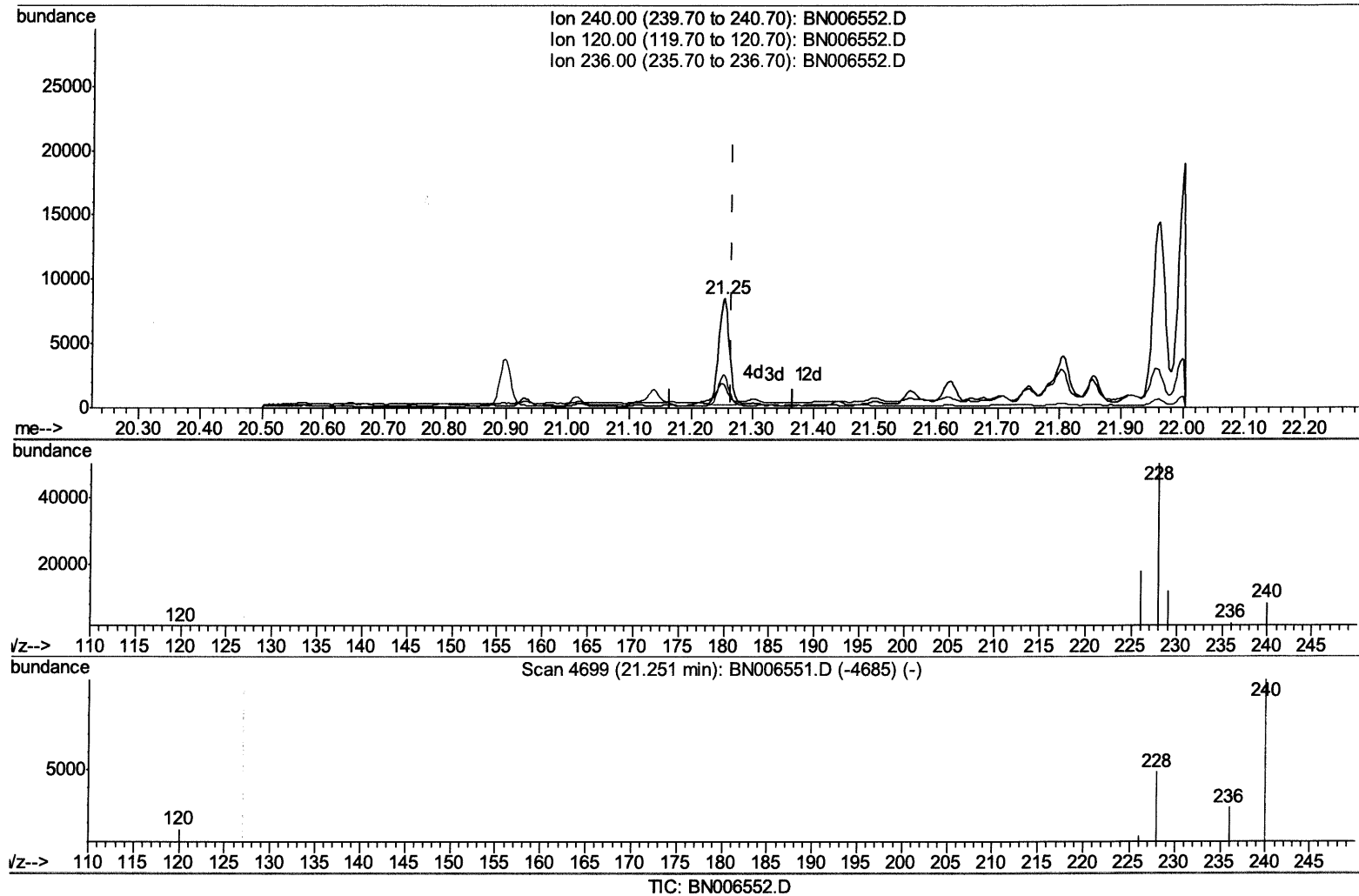
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A4218

Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:22:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.254min (-0.012) 0.40ng/ul m 06/26/19

response 10172

Ion	Exp%	Act%
240.00	100	100
120.00	20.10	21.13
236.00	30.10	30.23
0.00	0.00	0.00

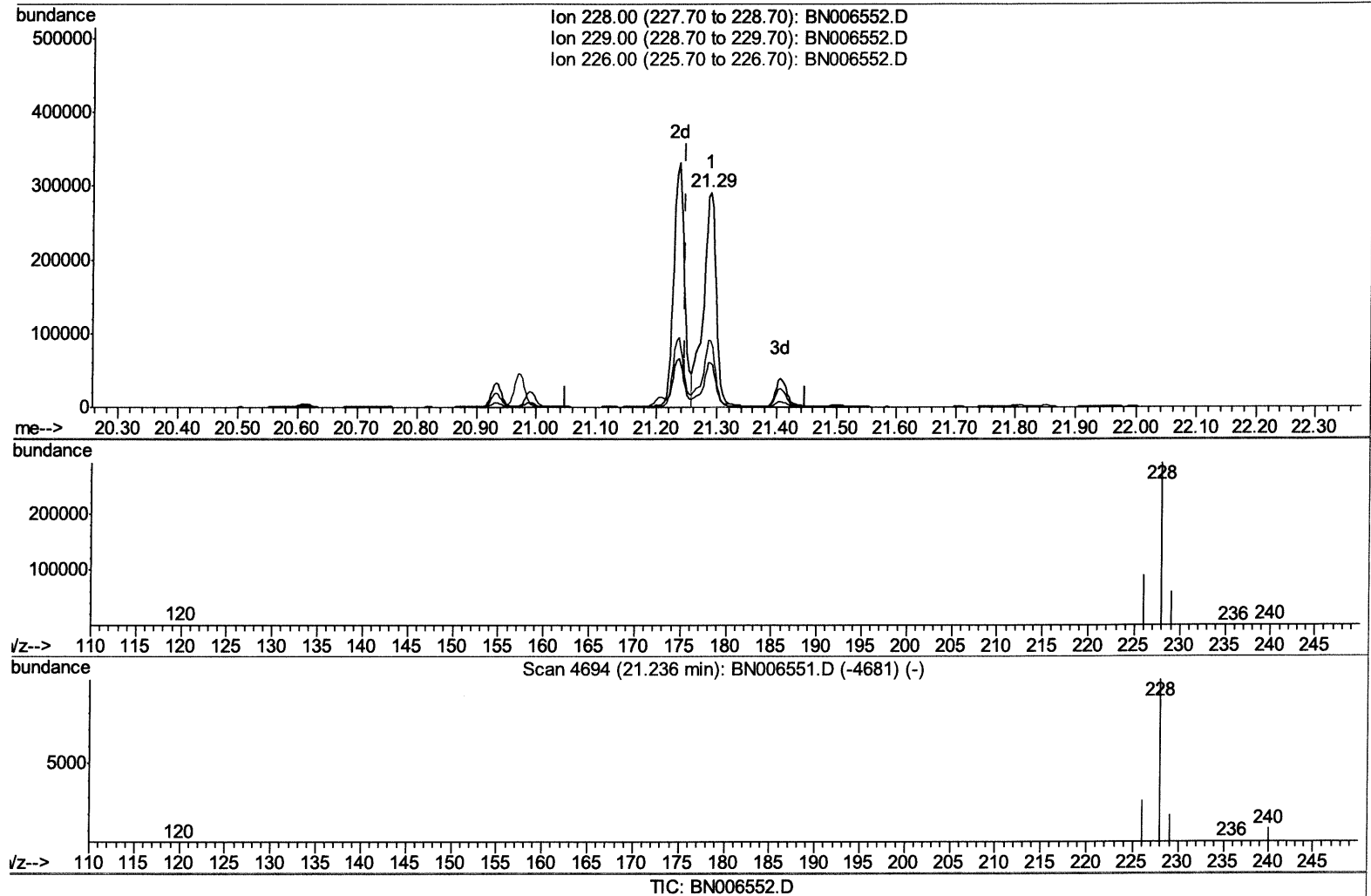
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
Data File : BN006552.D
Acq On : 25 Jun 2019 03:32
Operator : HP/JU
Sample : K3388-07
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A4218

Manual Integrations
APPROVED

mohammad
6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:24:06 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 25 01:51:13 2019
Response via : Initial Calibration



(18) Benzo(a)anthracene

21.289min (+0.041) 9.79ng/ul

response 440482

Ion	Exp%	Act%
228.00	100	100
229.00	20.60	20.94
226.00	28.50	31.12
0.00	0.00	0.00

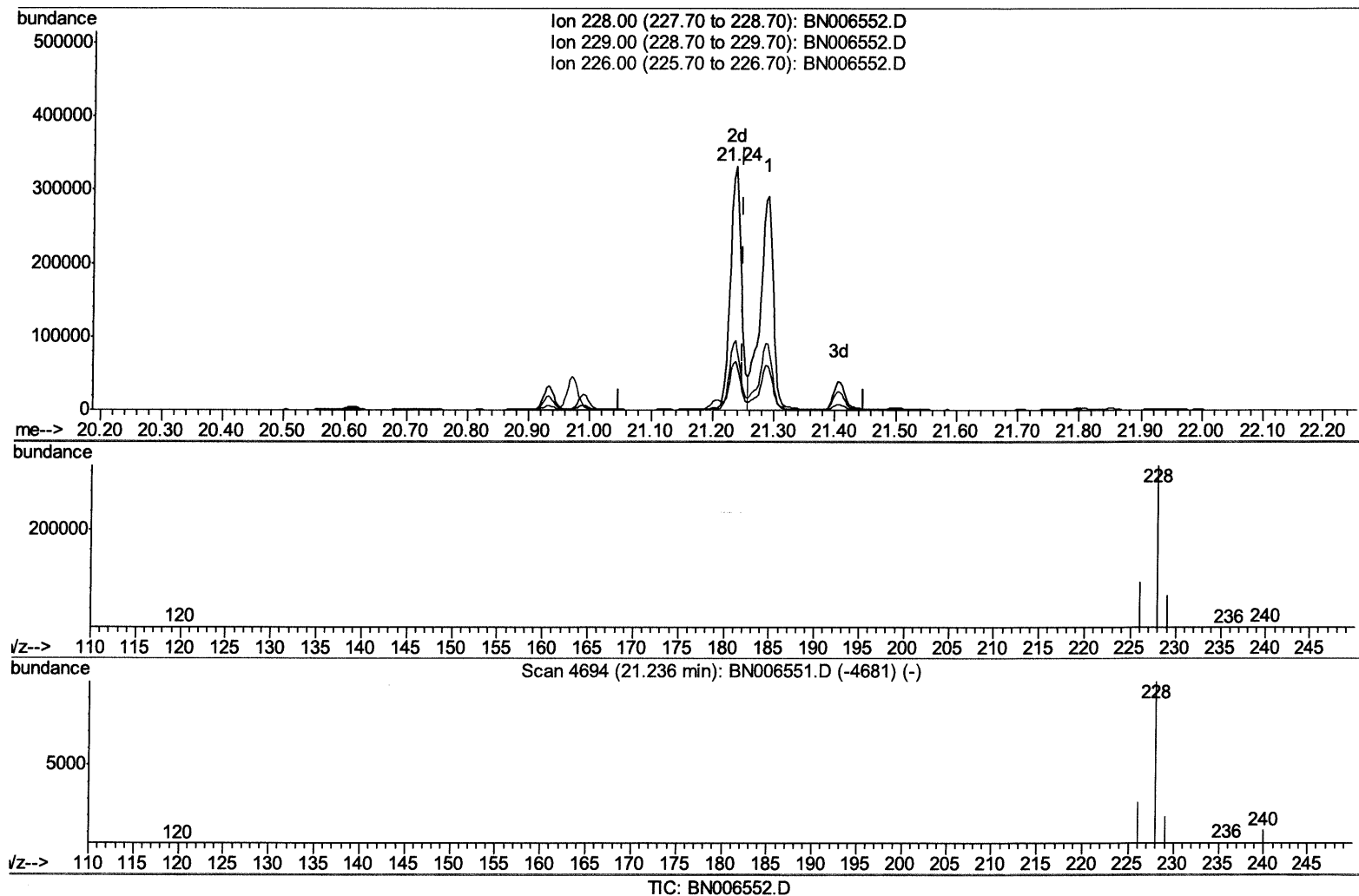
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
 APPROVED

mohammad
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Quant Time: Jun 25 07:24:06 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
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 Response via : Initial Calibration



(18) Benzo(a)anthracene

21.236min (-0.012) 9.22ng/ul m *JU 06/26/19*

response 414681

Ion	Exp%	Act%
228.00	100	100
229.00	20.60	20.23
226.00	28.50	28.42
0.00	0.00	0.00

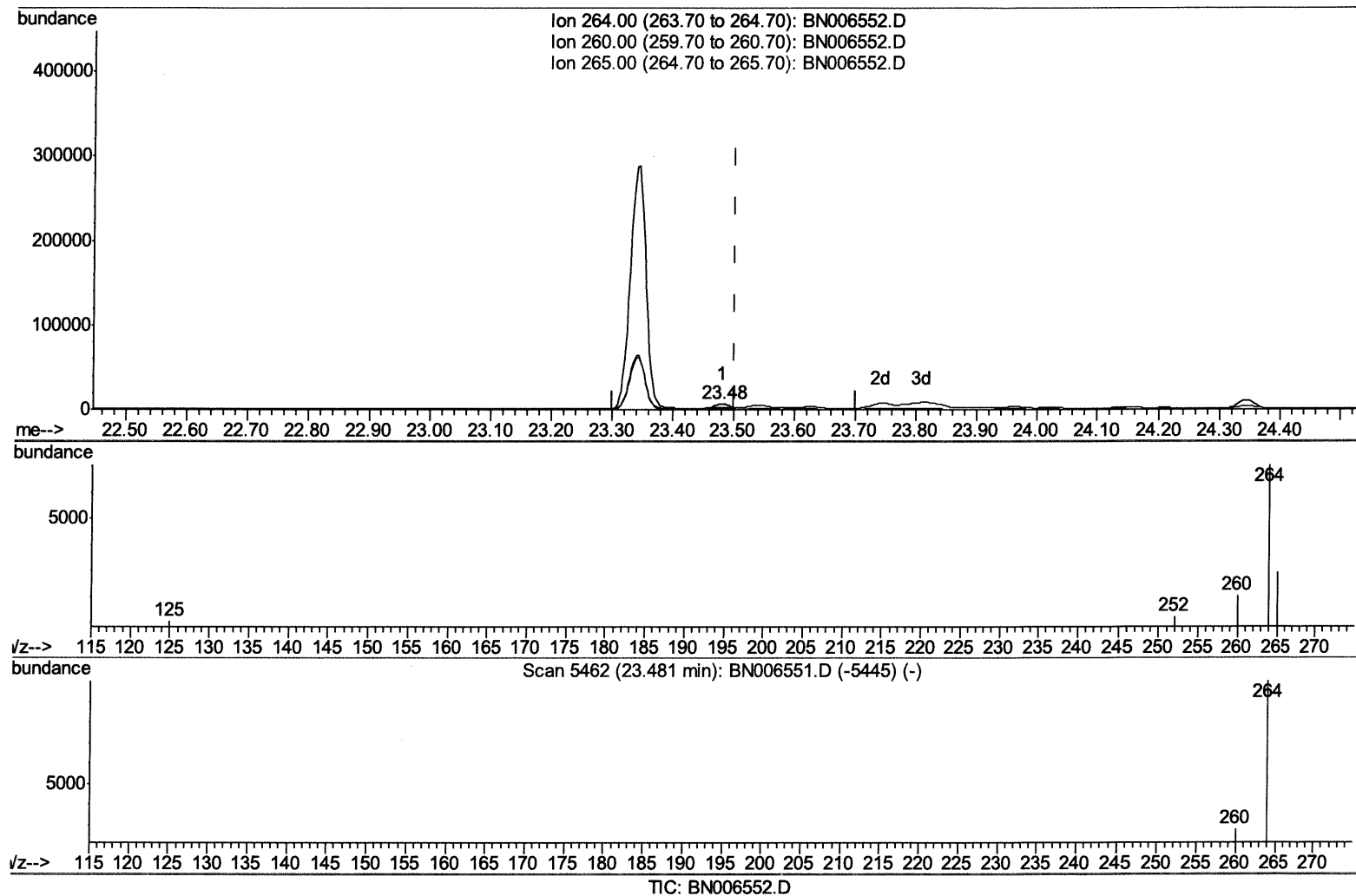
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
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mohammad
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Quant Time: Jun 25 07:24:06 2019
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(20) Perylene-d12 (I)

23.481min (-0.020) 0.40ng/ul

response 10737

Ion	Exp%	Act%
264.00	100	100
260.00	29.20	28.77
265.00	44.70	41.66
0.00	0.00	0.00

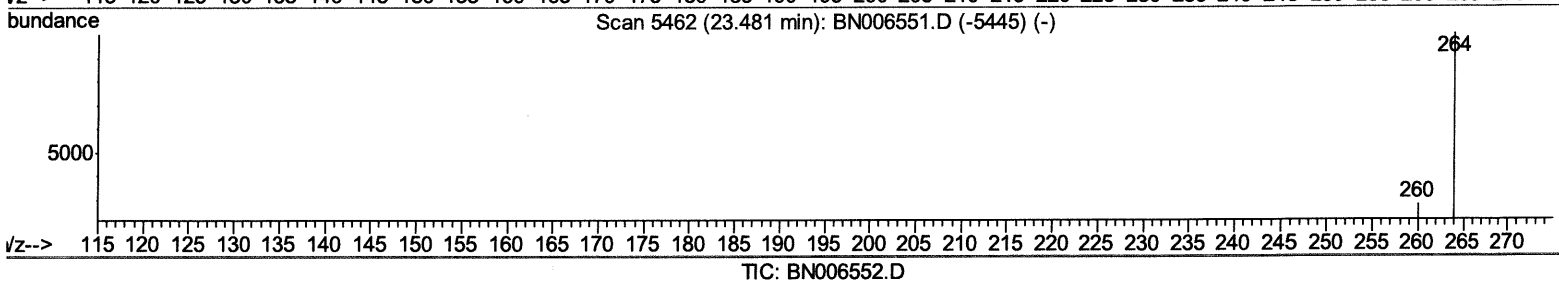
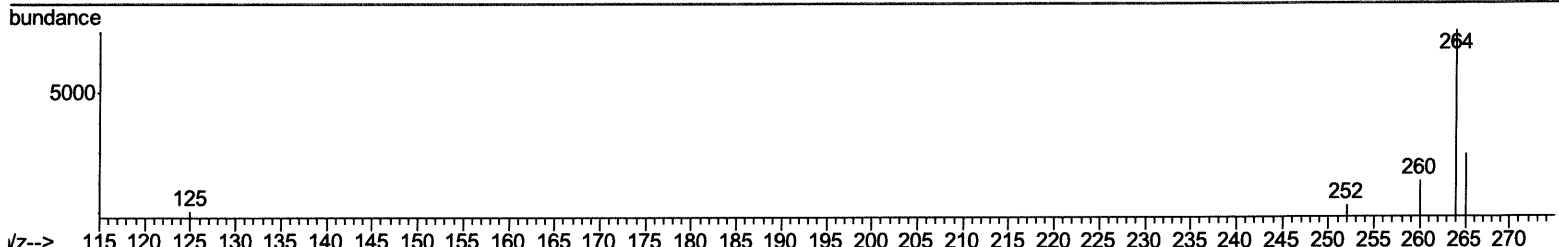
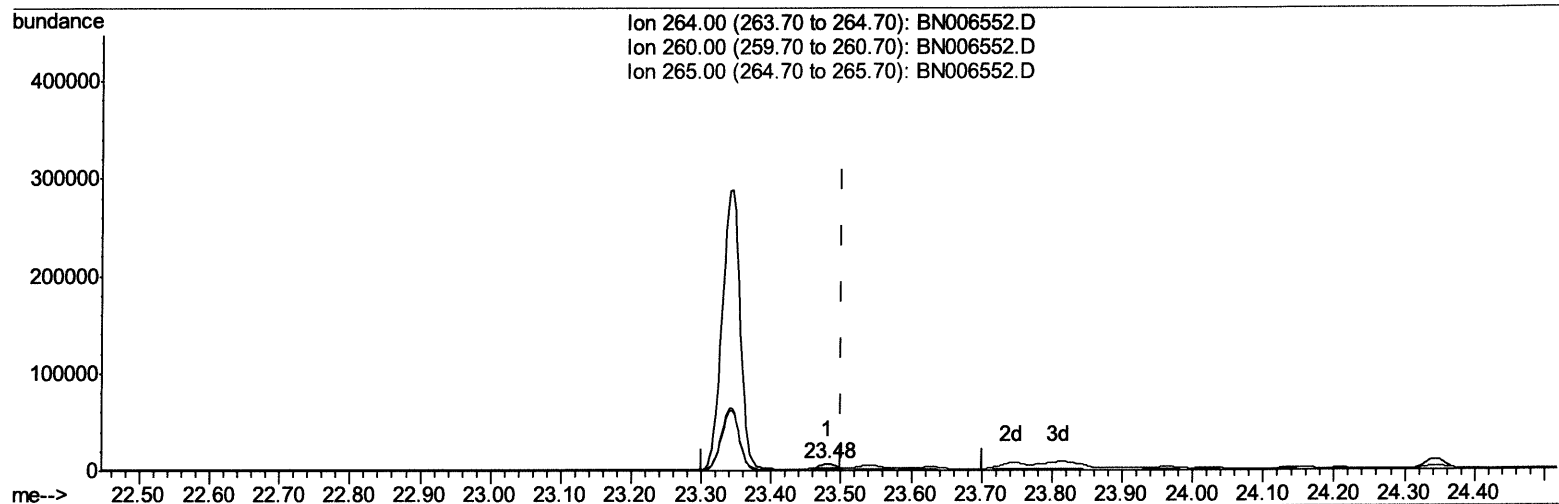
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
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Quant Time: Jun 25 07:24:06 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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(20) Perylene-d12 (I)

23.481min (-0.020) 0.40ng/ul m

JU
 06/26/19

response 10959

Ion	Exp%	Act%
264.00	100	100
260.00	29.20	28.77
265.00	44.70	41.66
0.00	0.00	0.00

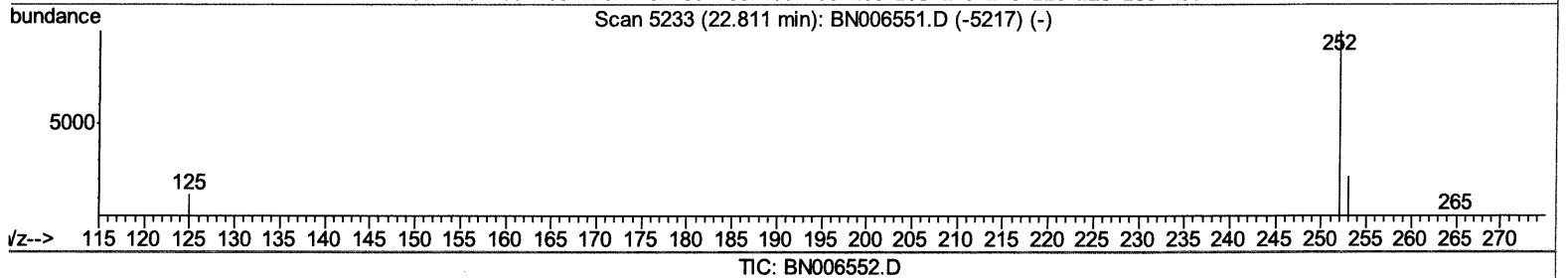
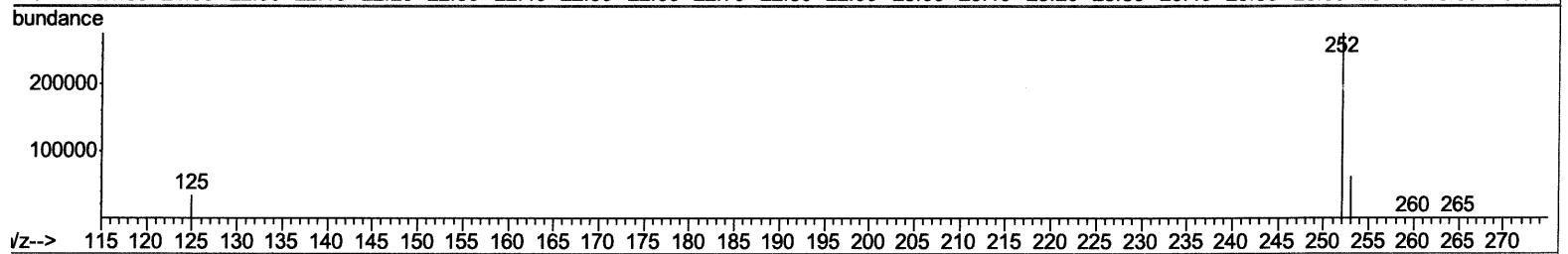
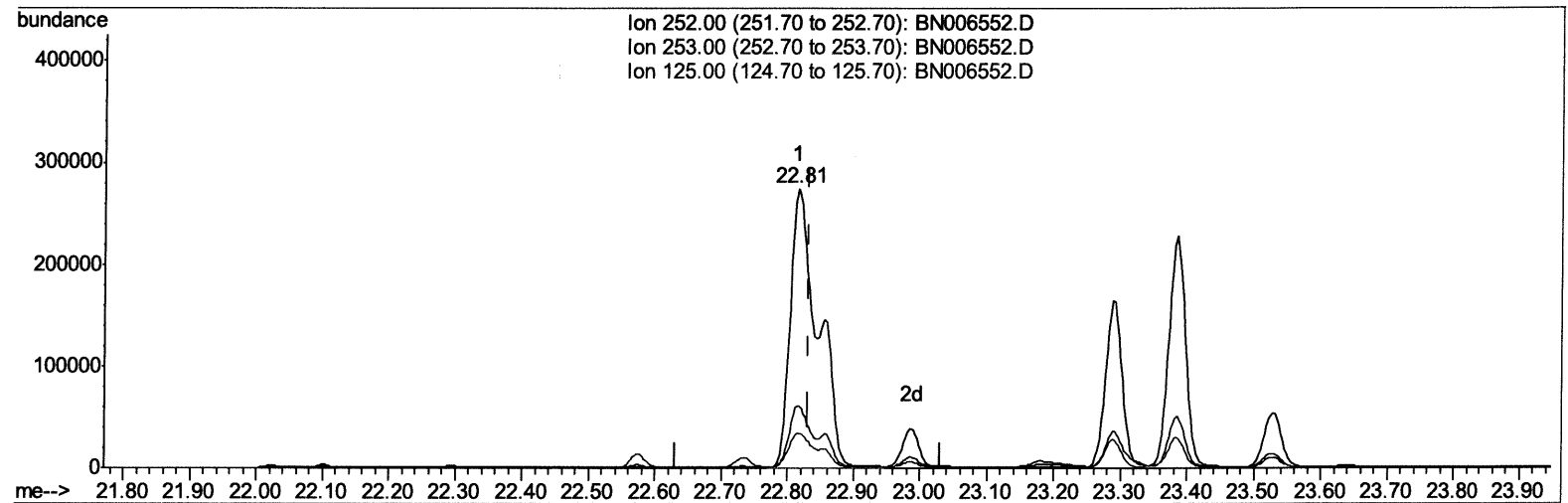
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
Data File : BN006552.D
Acq On : 25 Jun 2019 03:32
Operator : HP/JU
Sample : K3388-07
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
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Manual Integrations
APPROVED

mohammad
6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:24:55 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
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TIC: BN006552.D

(21) Benzo(b)fluoranthene

22.814min (-0.018) 17.50ng/ul

response 799541

Ion	Exp%	Act%
252.00	100	100
253.00	25.70	22.51
125.00	20.50	12.58
0.00	0.00	0.00

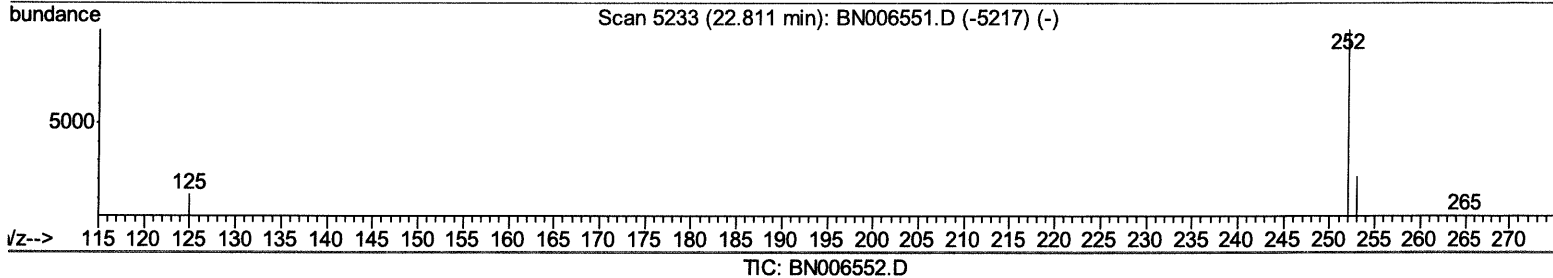
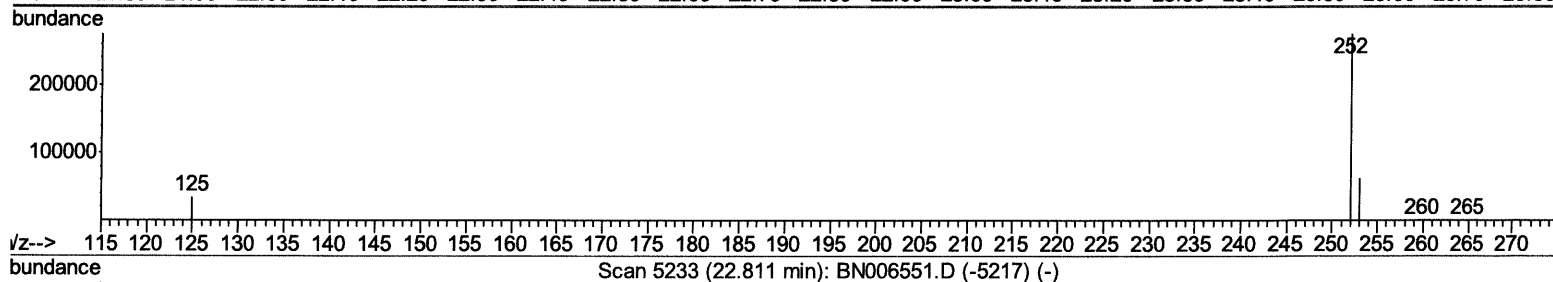
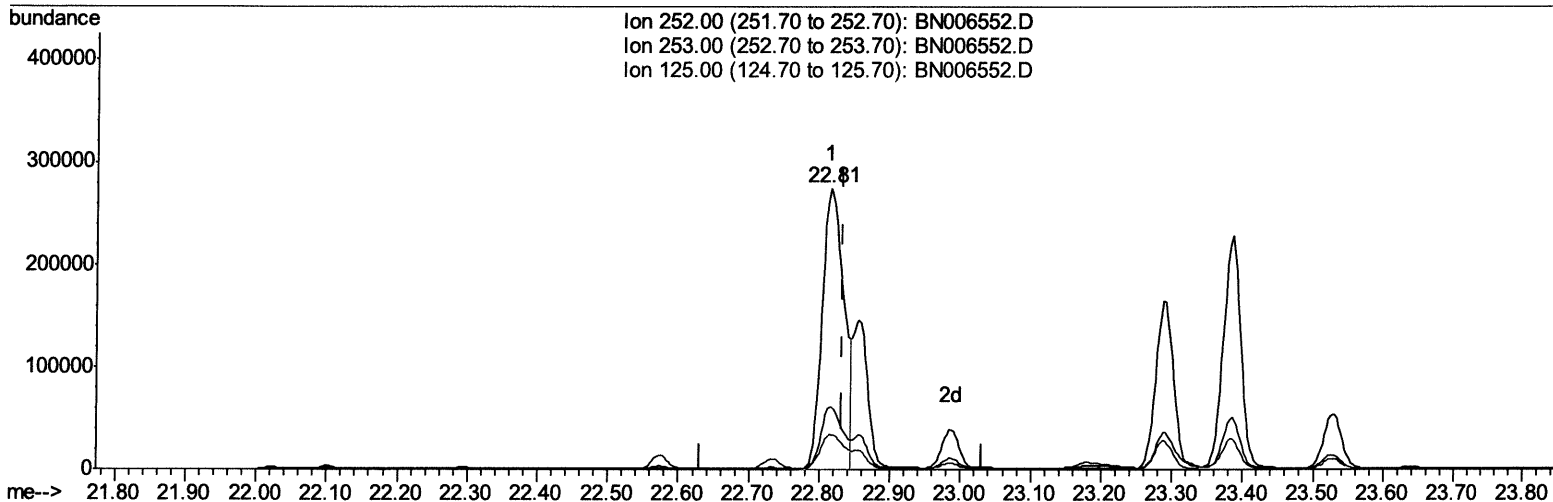
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:24:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.814min (-0.018) 12.76ng/ul m

JU
 06/26/19

response 582962

Ion	Exp%	Act%
252.00	100	100
253.00	25.70	22.51
125.00	20.50	12.58
0.00	0.00	0.00

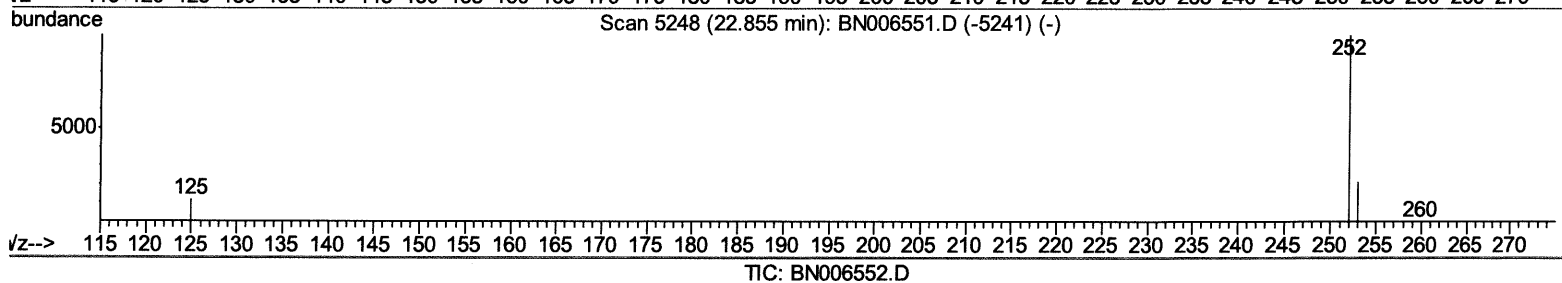
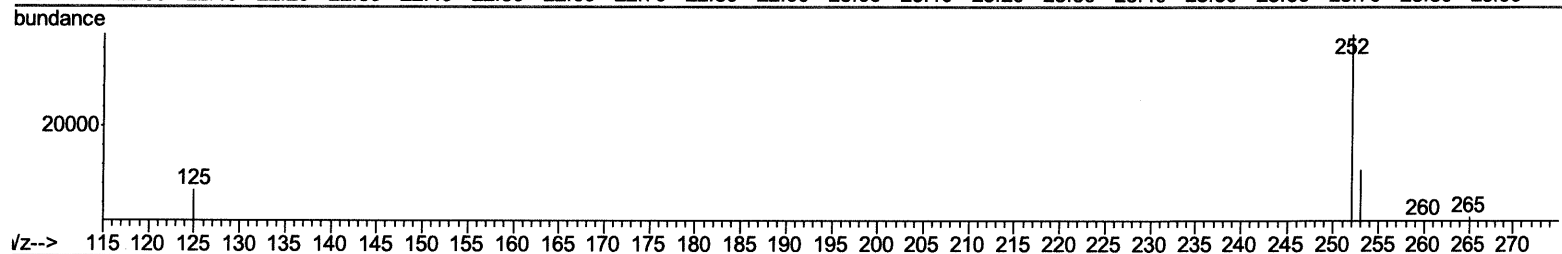
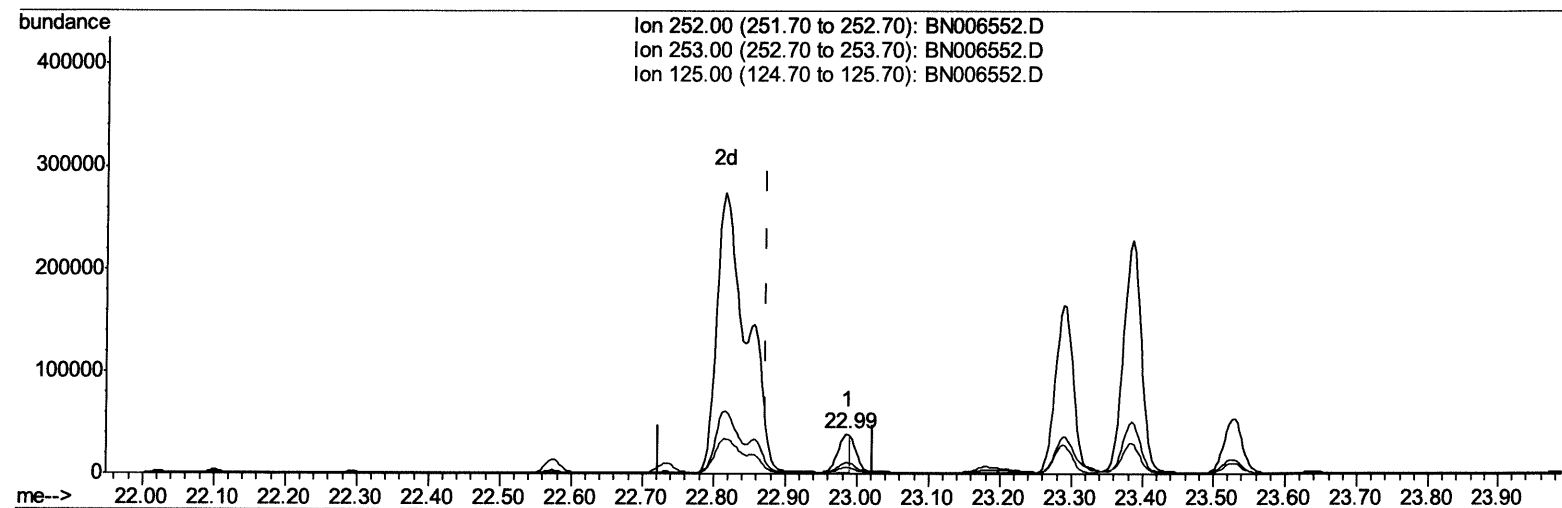
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:24:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.987min (+0.114) 0.94ng/ul

response 41794

Ion	Exp%	Act%
252.00	100	100
253.00	25.40	27.67
125.00	17.90	16.71
0.00	0.00	0.00

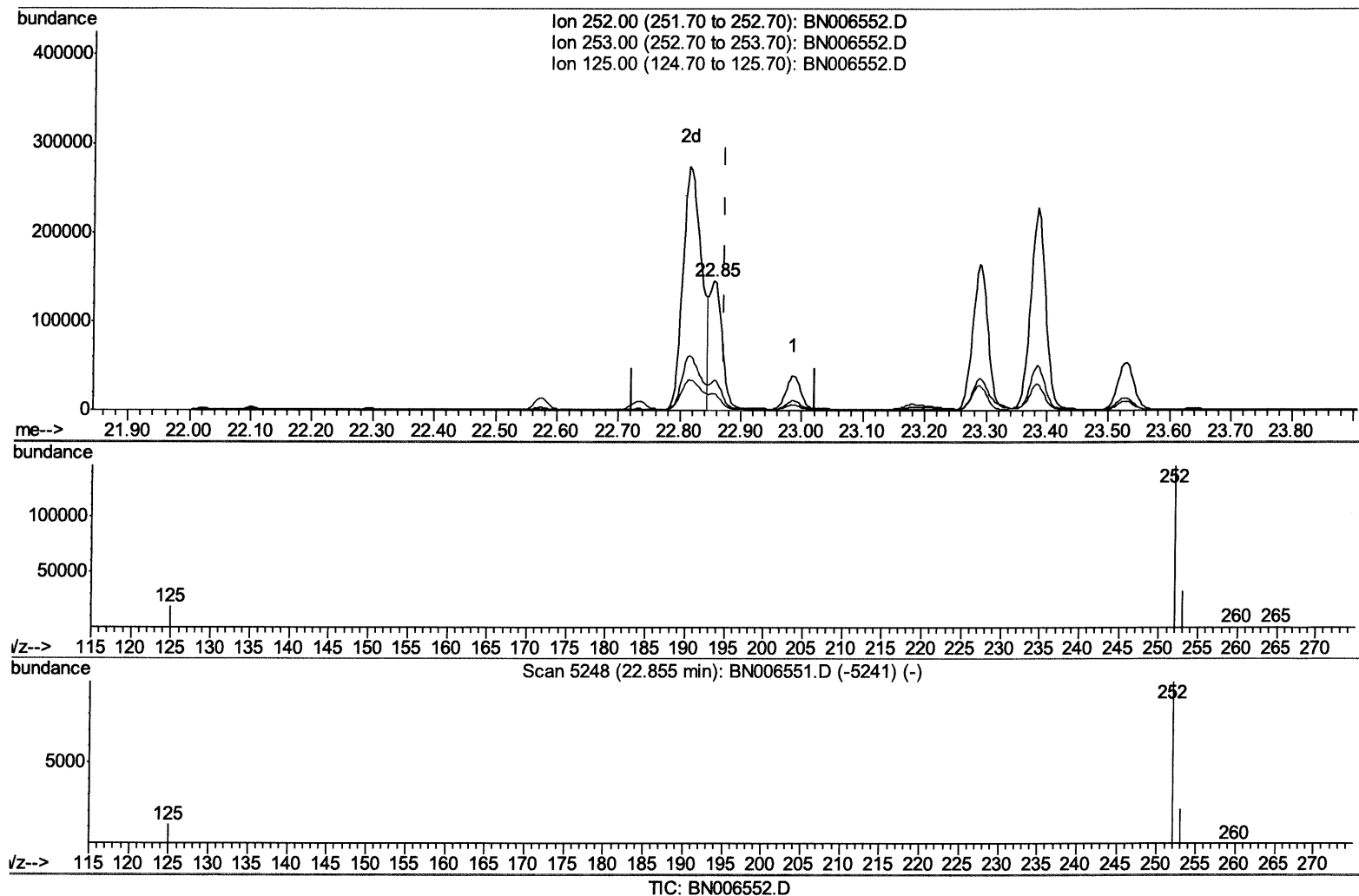
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:24:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.855min (-0.018) 4.91ng/ul m *JU 06/26/19*

response 218466

Ion	Exp%	Act%
252.00	100	100
253.00	25.40	22.94
125.00	17.90	12.89#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN062419\
 Data File : BN006552.D
 Acq On : 25 Jun 2019 03:32
 Operator : HP/JU
 Sample : K3388-07
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A4218

Manual Integrations
 APPROVED

mohammad
 6/25/2019 10:21:09 PM

Quant Time: Jun 25 07:25:42 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN053019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 25 01:51:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	4982	0.40	ng/ul	0.00
2) Naphthalene-d8	10.41	136	17639	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.28	164	7993	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.04	188	14808m>	0.40	ng/ul	0.00
16) Chrysene-d12	21.25	240	10172m>	0.40	ng/ul	-0.01
20) Perylene-d12	23.48	264	10959m>	0.40	ng/ul	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.01	152	3782	0.14	ng/ul	0.00
14) Fluoranthene-d10	19.08	212	7230m>	0.18	ng/ul	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	10.46	128	2905	0.060	ng/ul#	91
5) 2-Methylnaphthalene	12.09	142	890	0.026	ng/ul	98
7) Acenaphthylene	14.00	152	3630	0.082	ng/ul#	95
8) Acenaphthene	14.34	153	7986	0.259	ng/ul	99
9) Fluorene	15.34	166	14944	0.414	ng/ul	98
12) Phenanthrene	17.08	178	415768m>	8.747	ng/ul	
13) Anthracene	17.17	178	103533m>	2.281	ng/ul	
15) Fluoranthene	19.11	202	936619m>	17.844	ng/ul	
17) Pyrene	19.48	202	733575	13.691	ng/ul	97
18) Benzo(a)anthracene	21.24	228	414681m>	9.217	ng/ul	
19) Chrysene	21.29	228	435775	10.318	ng/ul	99
21) Benzo(b)fluoranthene	22.81	252	582962m>	12.757	ng/ul	
22) Benzo(k)fluoranthene	22.85	252	218466m>	4.908	ng/ul	
23) Benzo(a)pyrene	23.38	252	394124	9.261	ng/ul#	84
24) Indeno(1,2,3-cd)pyrene	25.71	276	284770	6.182	ng/ul#	89
25) Dibenzo(a,h)anthracene	25.71	278	70306	1.909	ng/ul	94
26) Benzo(g,h,i)perylene	26.40	276	261240	6.771	ng/ul	93

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