

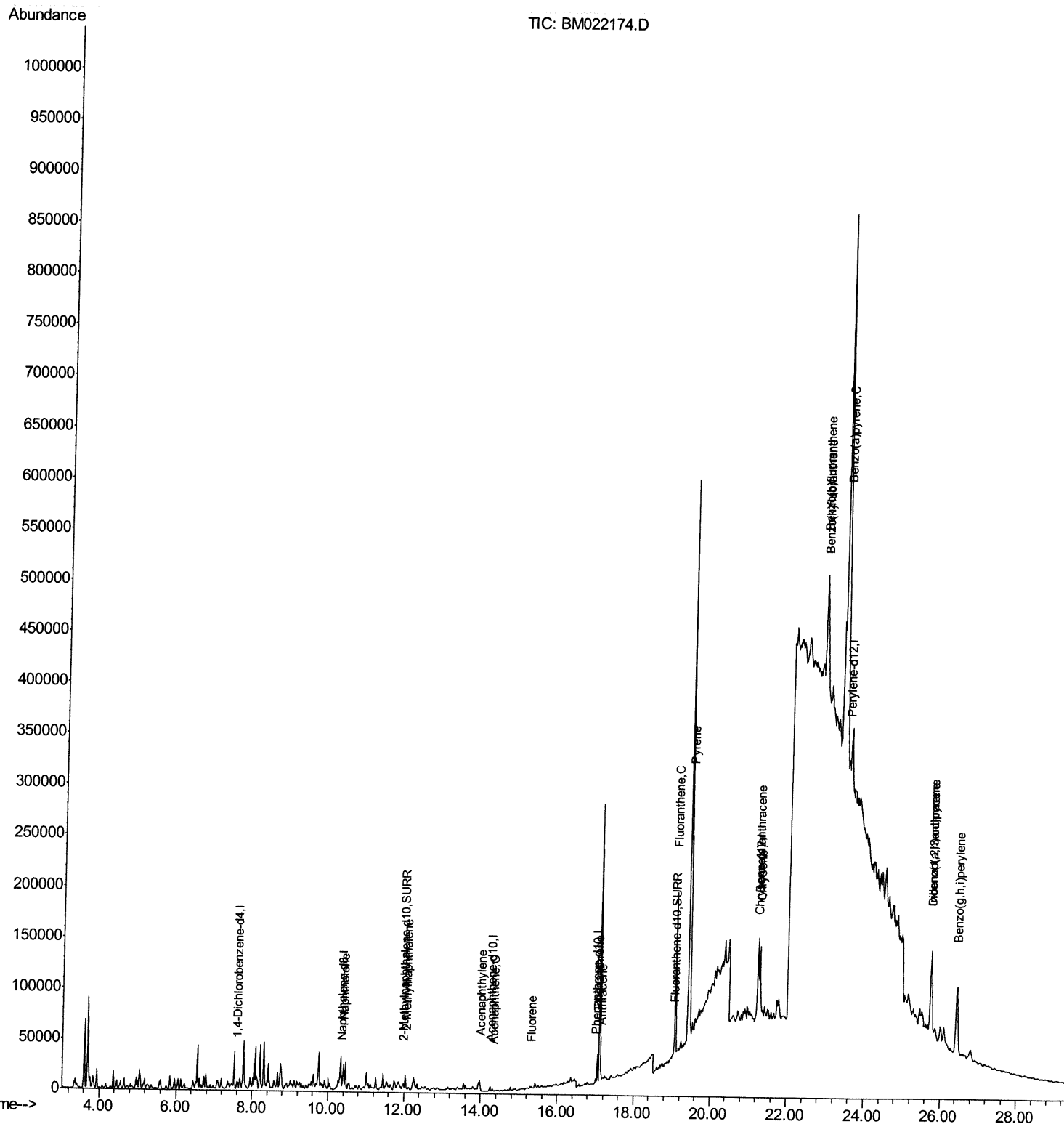
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
Data File : BM022174.D
Acq On : 16 Aug 2019 17:36
Operator : HP/JU
Sample : K4242-08RE
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AF7RE

Manual Integrations
APPROVED

mohammad
8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:50:06 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 : Mon Aug 19 04:47:53 2019
Response via : Initial Calibration



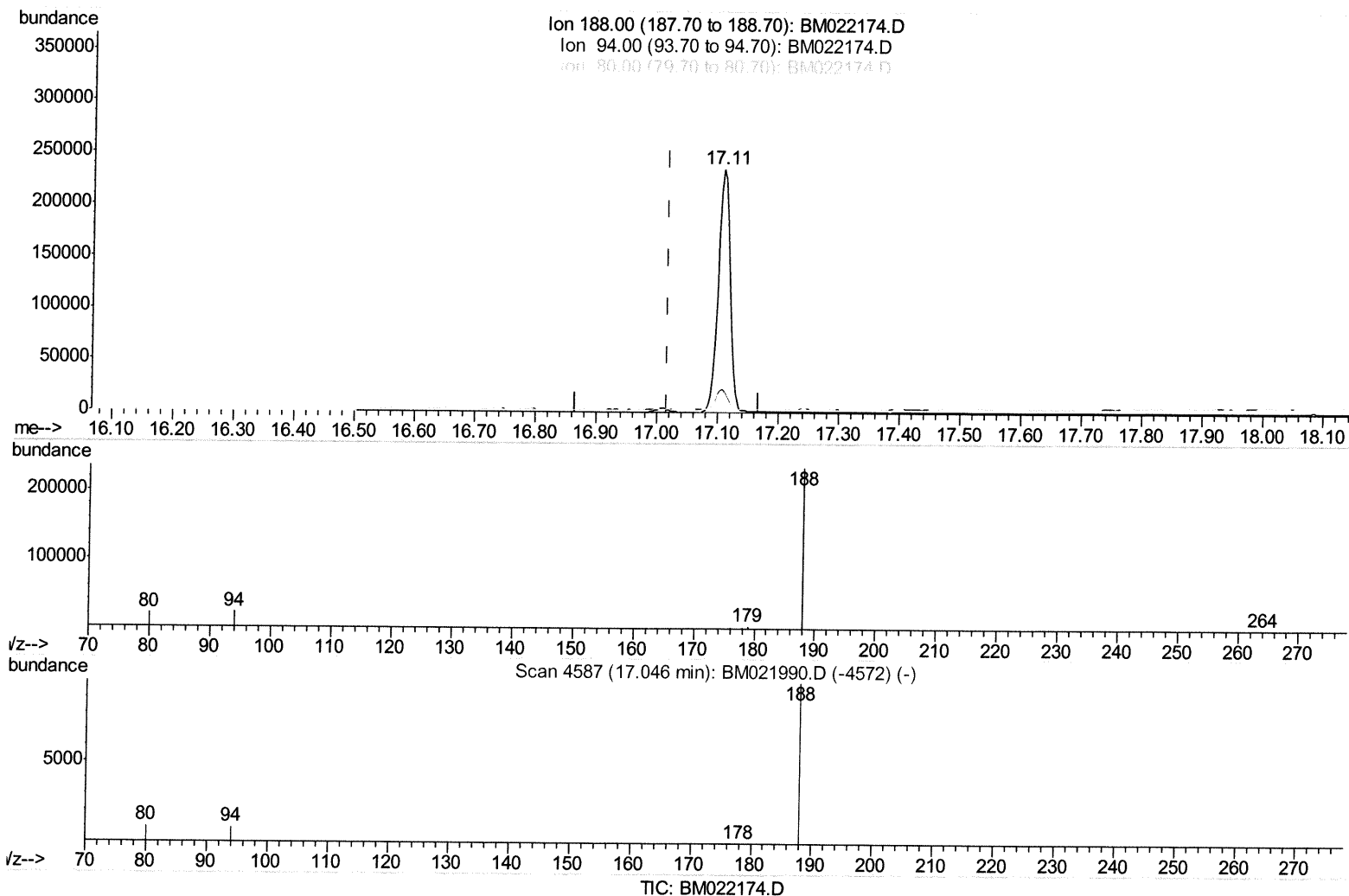
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
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Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:40:56 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.107min (+0.090) 0.40ng/ui

response 319301

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	9.37
80.00	11.40	8.88#
0.00	0.00	0.00

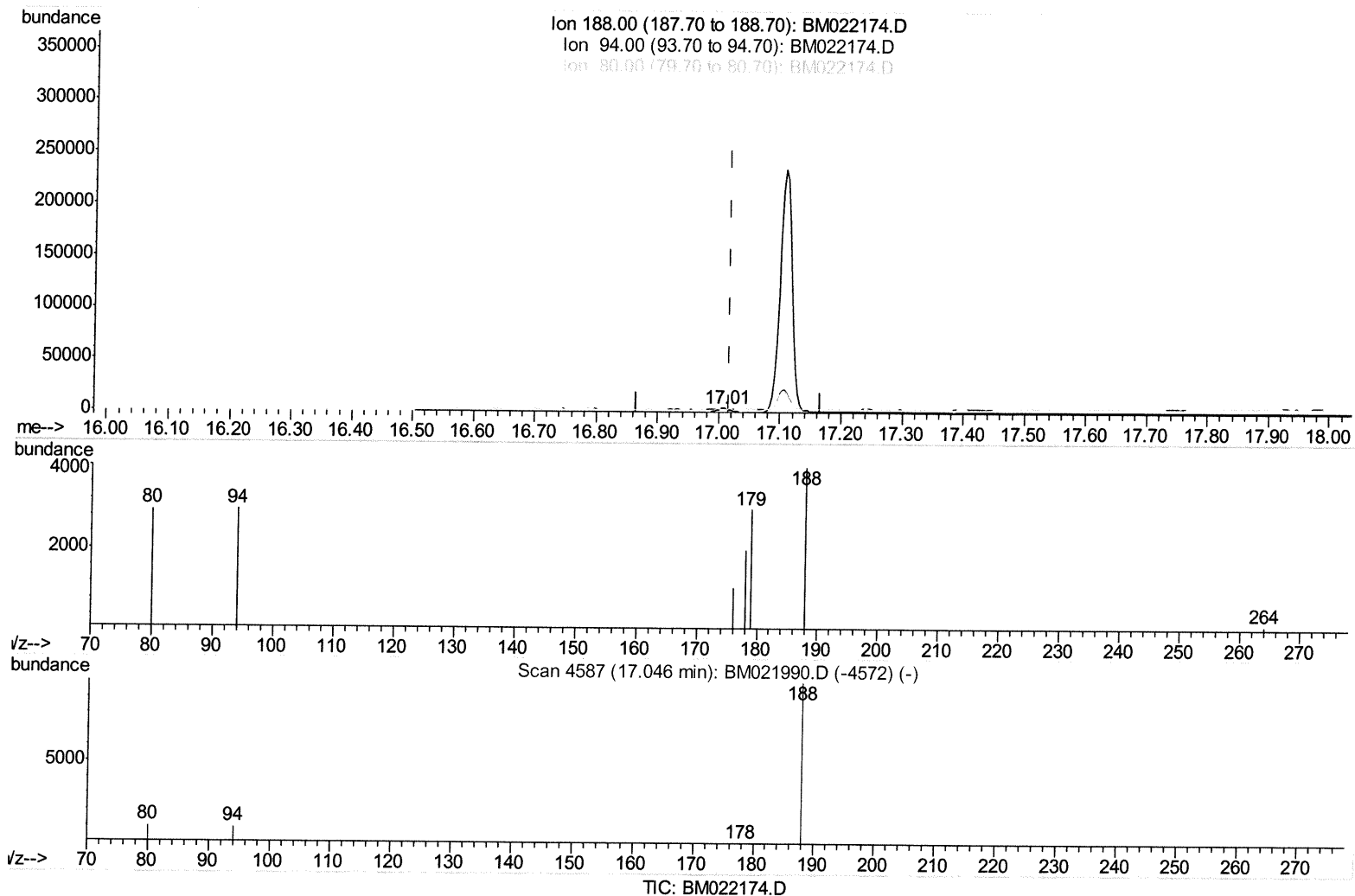
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
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(10) Phenanthrene-d10 (I)

17.010min (-0.007) 0.40ng/ul m

JU
 8/20/19

response 5093

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	73.87#
80.00	11.40	73.62#
0.00	0.00	0.00

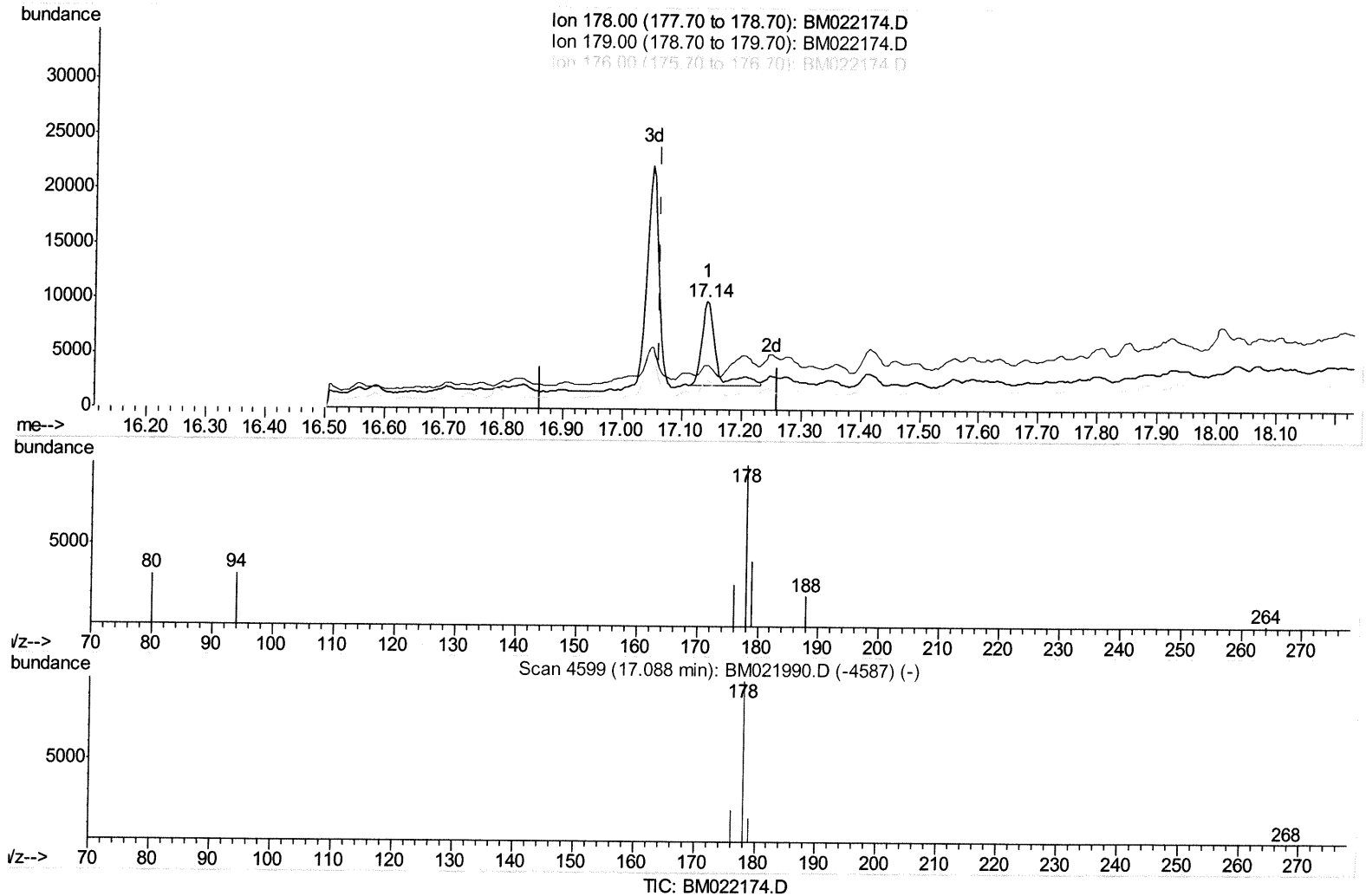
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mohammad
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(12) Phenanthrene

17.142min (+0.080) 0.88ng/ul

response 13085

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	41.39#
176.00	21.00	26.55#
0.00	0.00	0.00

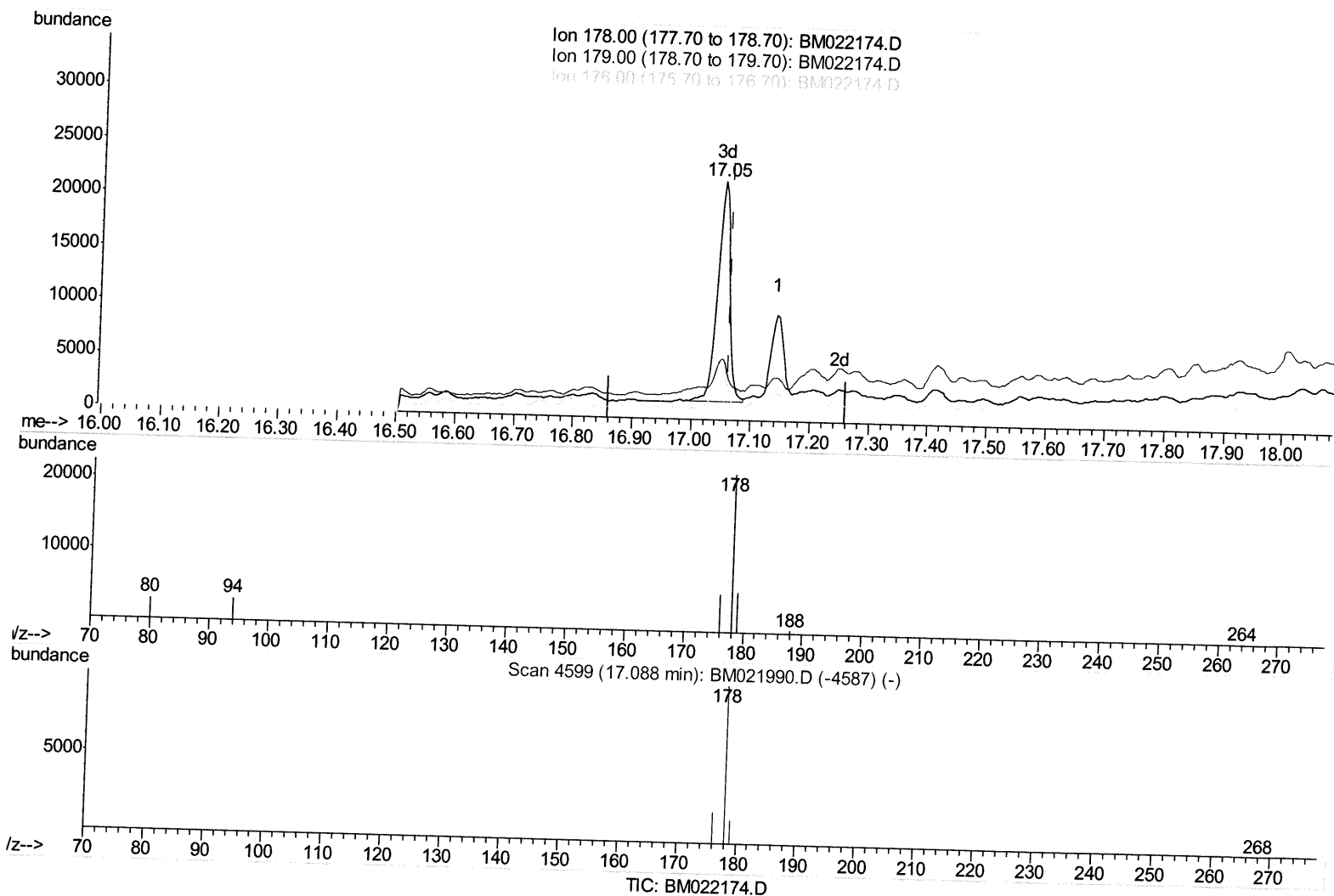
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(12) Phenanthrene

17.048min (-0.014) 2.00ng/ul m

JU 8/20/19

response 29689

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	25.69#
176.00	21.00	24.53
0.00	0.00	0.00

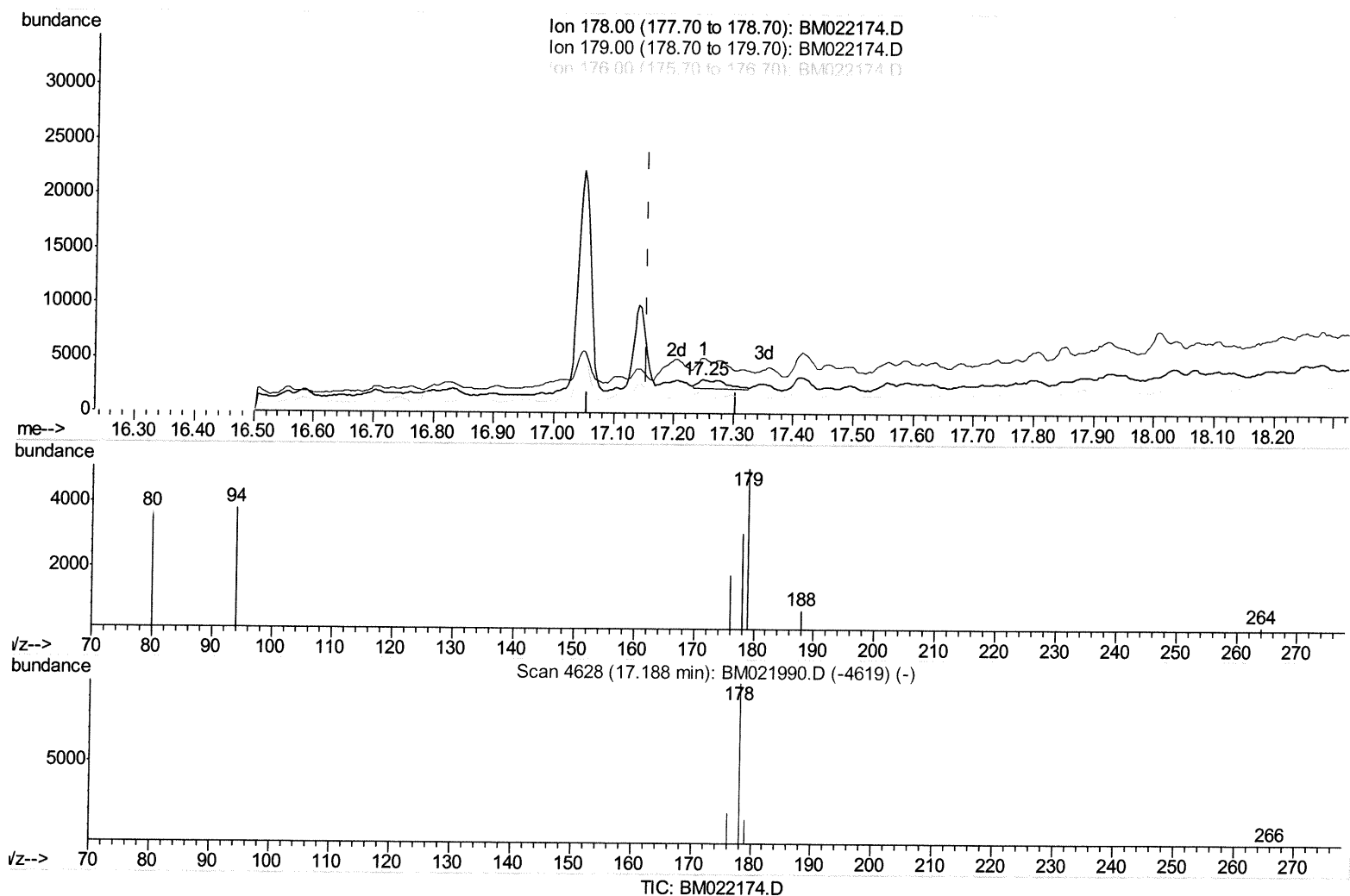
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
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(13) Anthracene

17.249min (+0.094) 0.20ng/ul

response 2547

Ion	Exp%	Act%
178.00	100	100
179.00	19.40	164.84#
176.00	20.80	58.40#
0.00	0.00	0.00

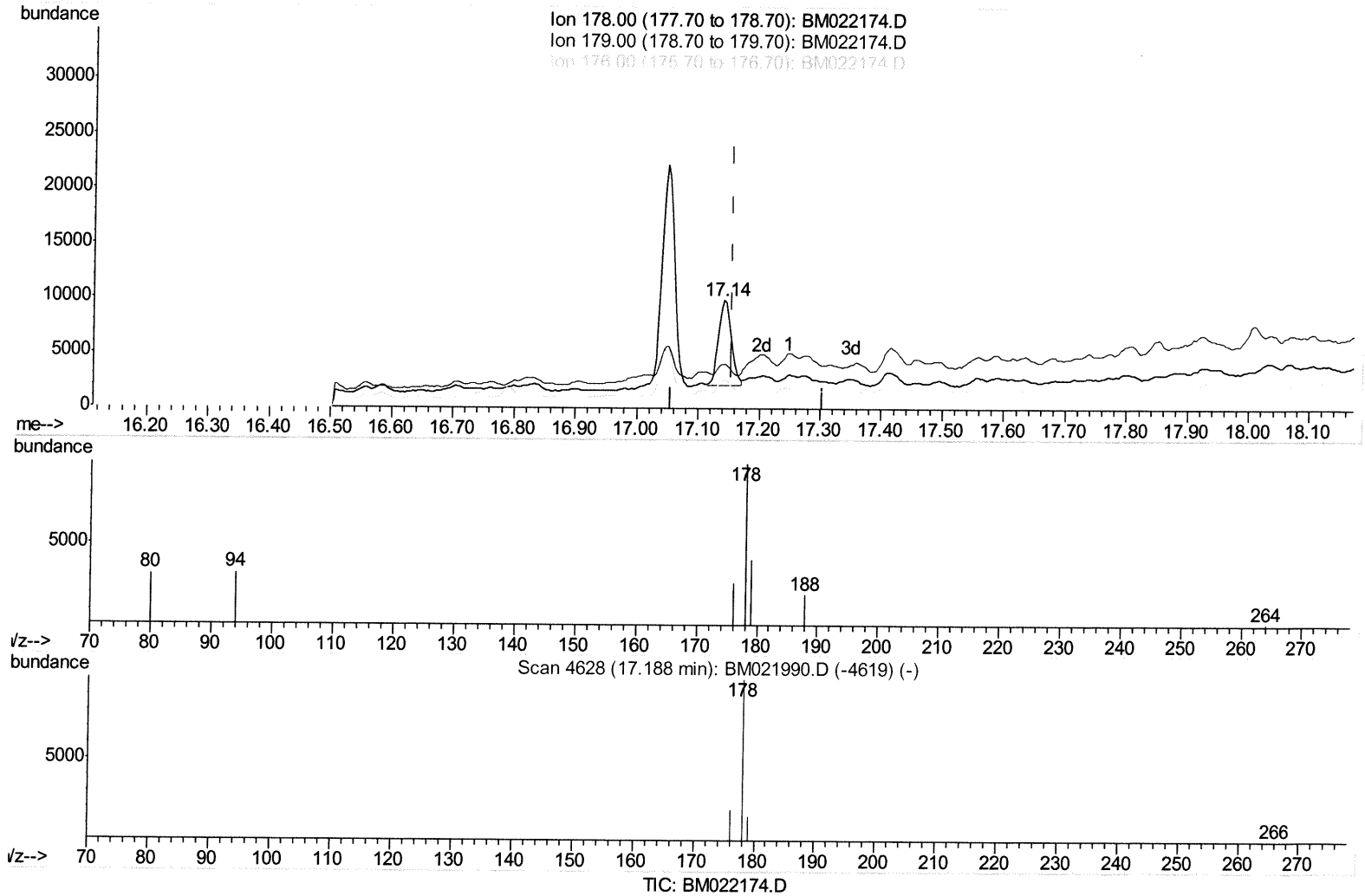
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

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(13) Anthracene

17.142min (-0.014) 0.89ng/ul m

JU
 08/20/19

response 11229

Ion	Exp%	Act%
178.00	100	100
179.00	19.40	41.39#
176.00	20.80	26.55#
0.00	0.00	0.00

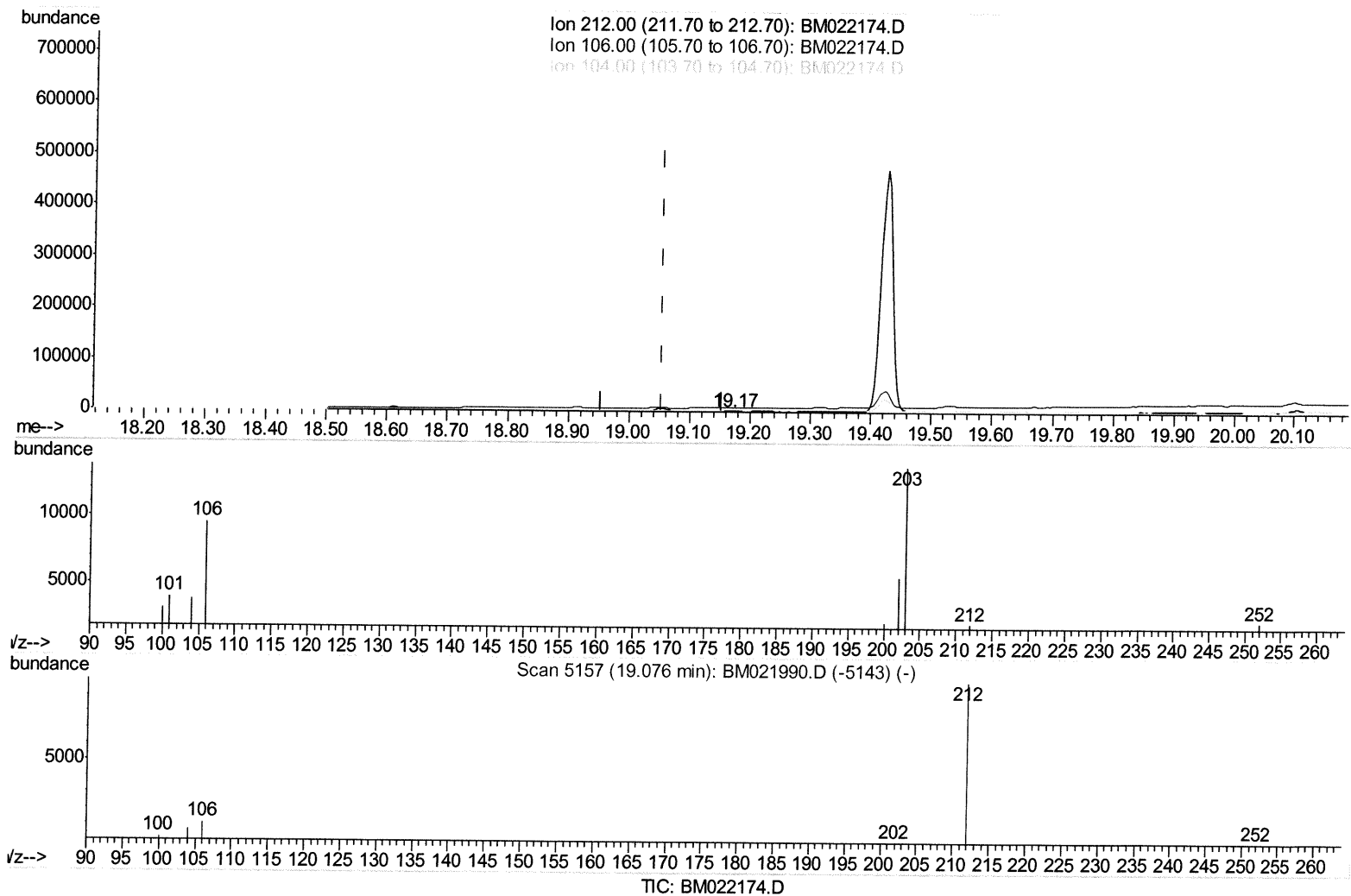
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 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
 APPROVED

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(14) Fluoranthene-d10 (SURR)

19.173min (+0.118) 0.06ng/ul

response 946

Ion	Exp%	Act%
212.00	100	100
106.00	9.90	426.00#
104.00	6.00	164.27#
0.00	0.00	0.00

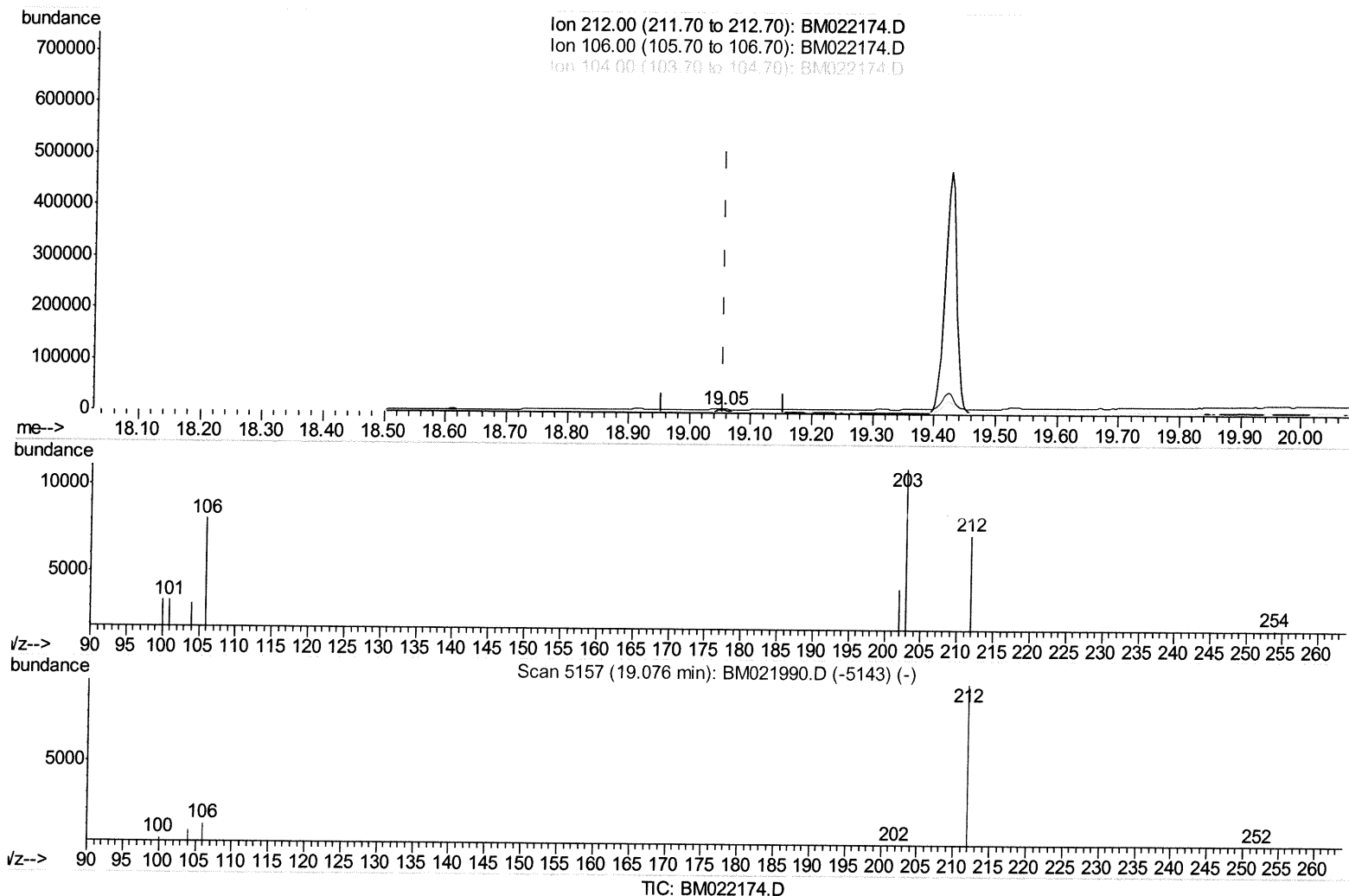
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
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Quant Time: Aug 19 14:43:21 2019
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 Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.055min (+0.000) 0.42ng/ul m

response 7190

Ion	Exp%	Act%
212.00	100	100
106.00	9.90	56.05#
104.00	6.00	21.61#
0.00	0.00	0.00

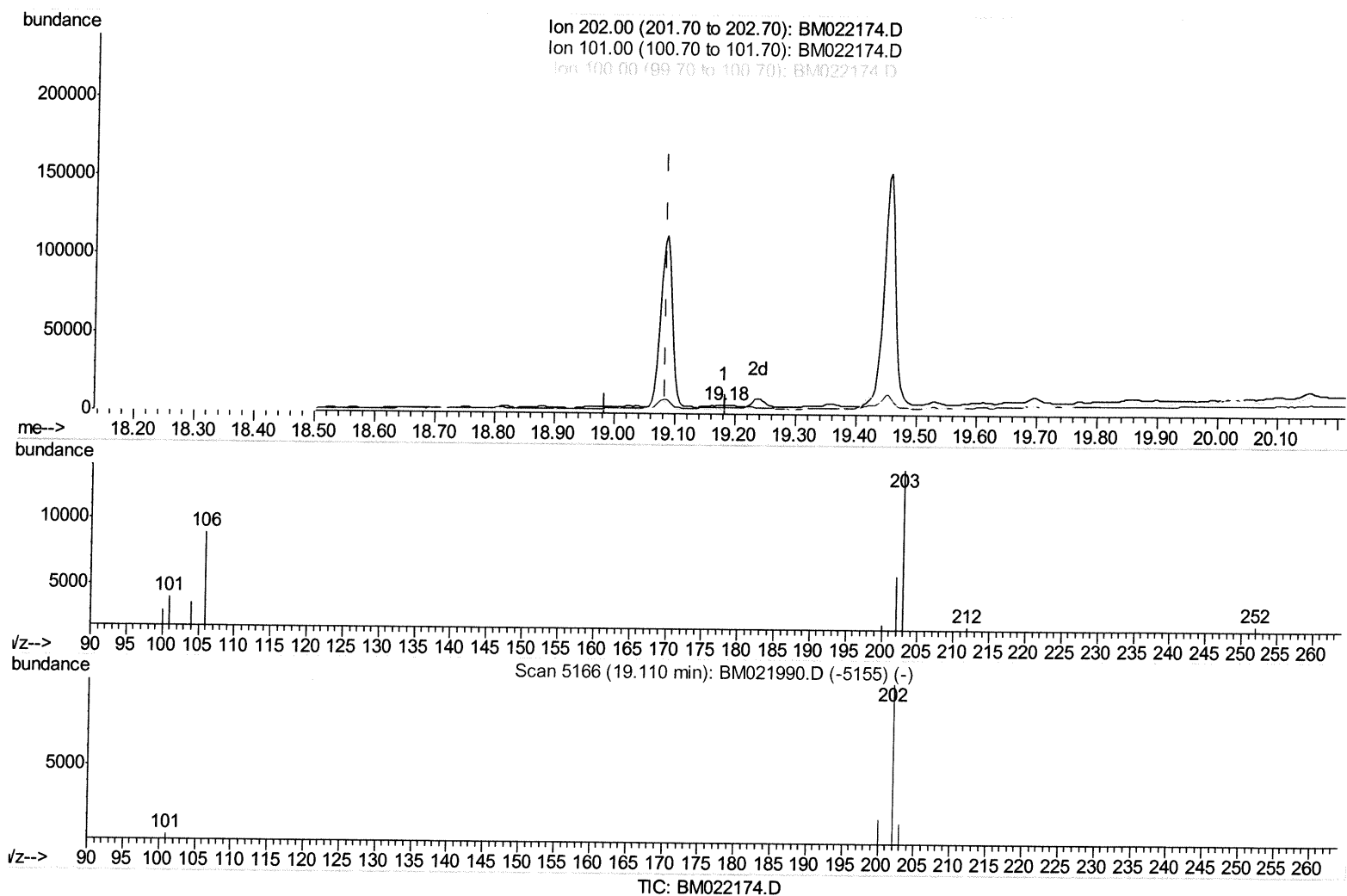
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
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Manual Integrations
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(15) Fluoranthene (C)

19.180min (+0.095) 0.19ng/ul

response 3809

Ion	Exp%	Act%
202.00	100	100
101.00	10.20	67.57#
100.00	8.10	51.13#
0.00	0.00	0.00

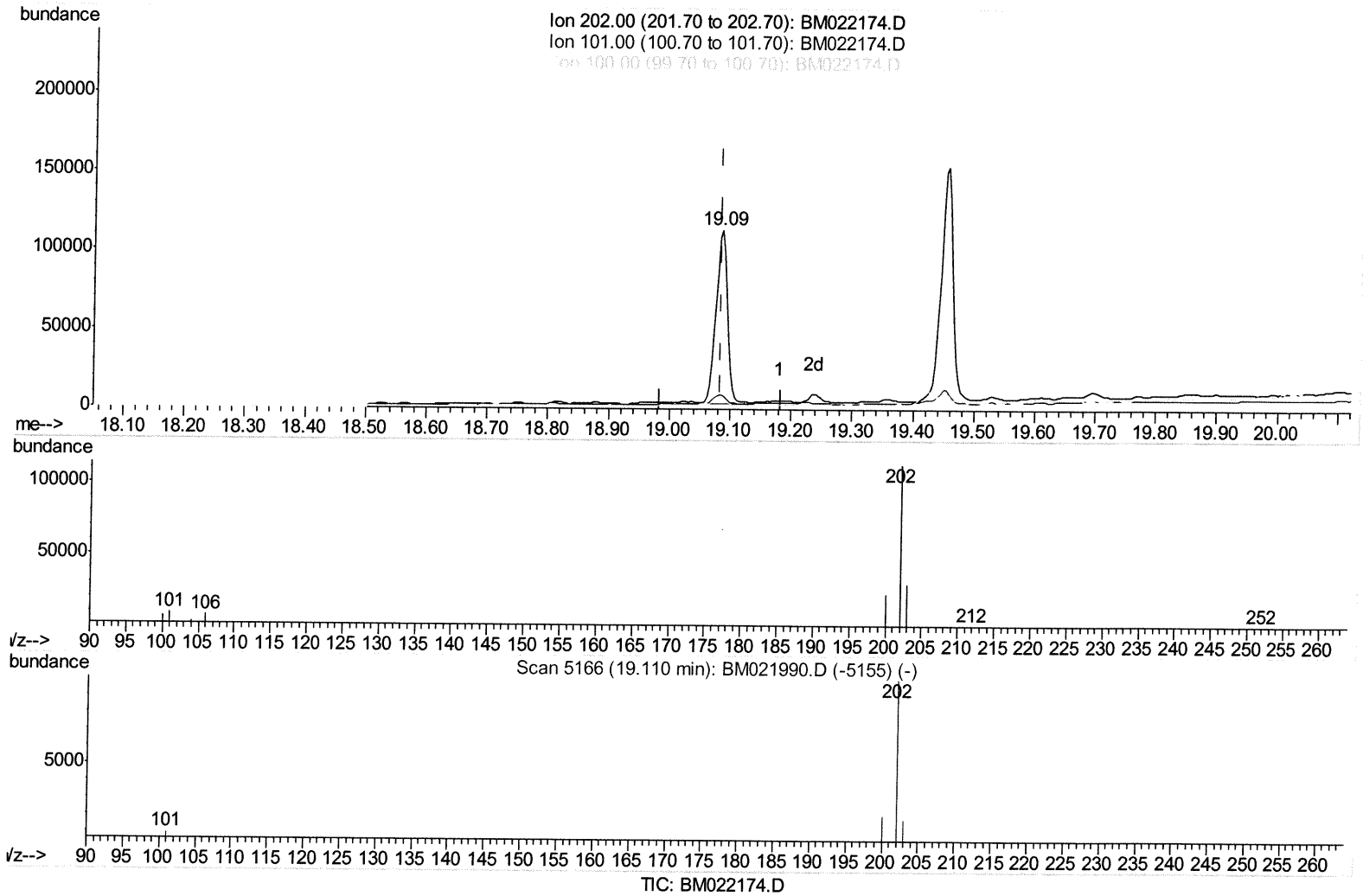
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
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 C0AF7RE

Manual Integrations
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mohammad
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(15) Fluoranthene (C)

19.085min (+0.000) 7.31ng/ul m *Ju 08/20/19*

response 145095

Ion	Exp%	Act%
202.00	100	100
101.00	10.20	8.07
100.00	8.10	6.30
0.00	0.00	0.00

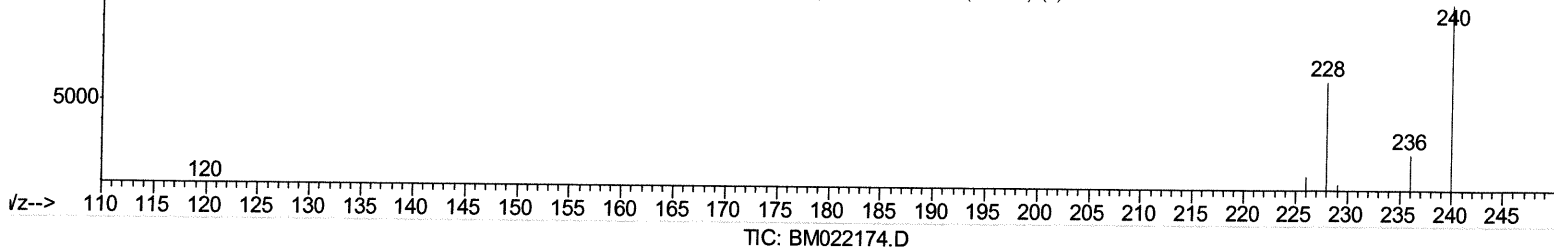
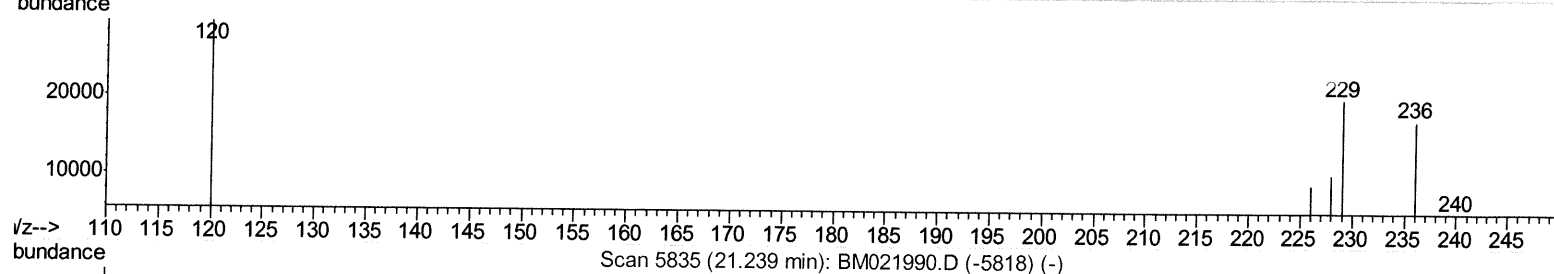
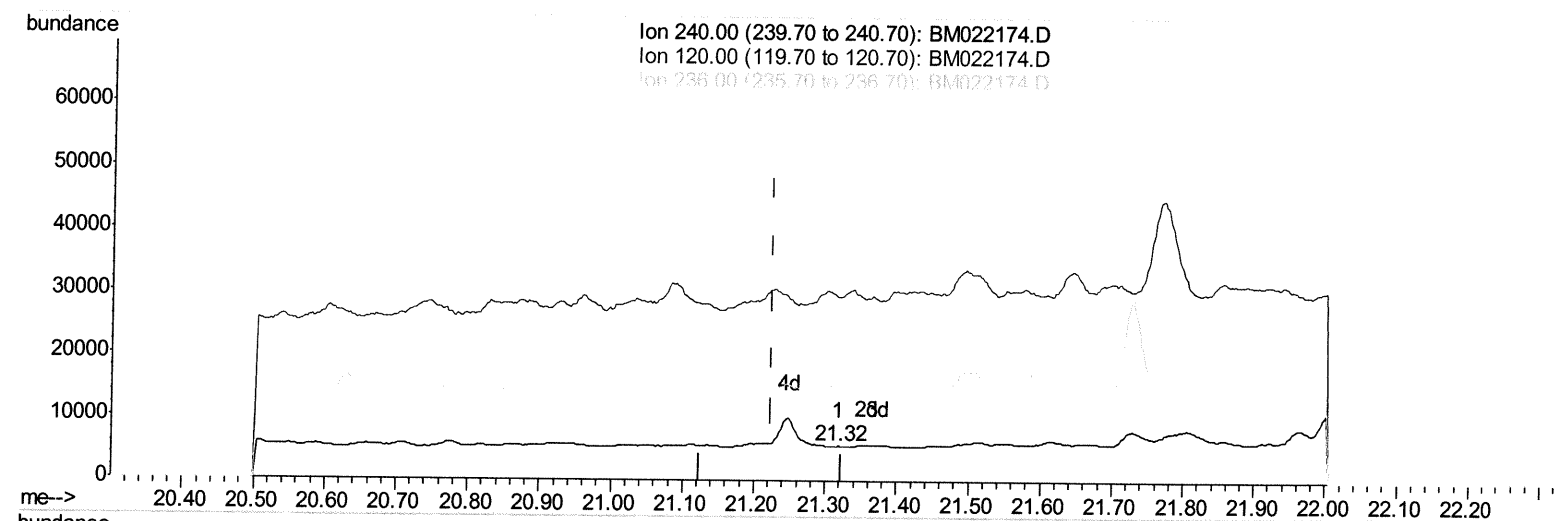
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:43:21 2019
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 Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.319min (+0.094) 0.40ng/ul

response 176

Ion	Exp%	Act%
240.00	100	100
120.00	16.20	523.40#
236.00	32.30	309.56#
0.00	0.00	0.00

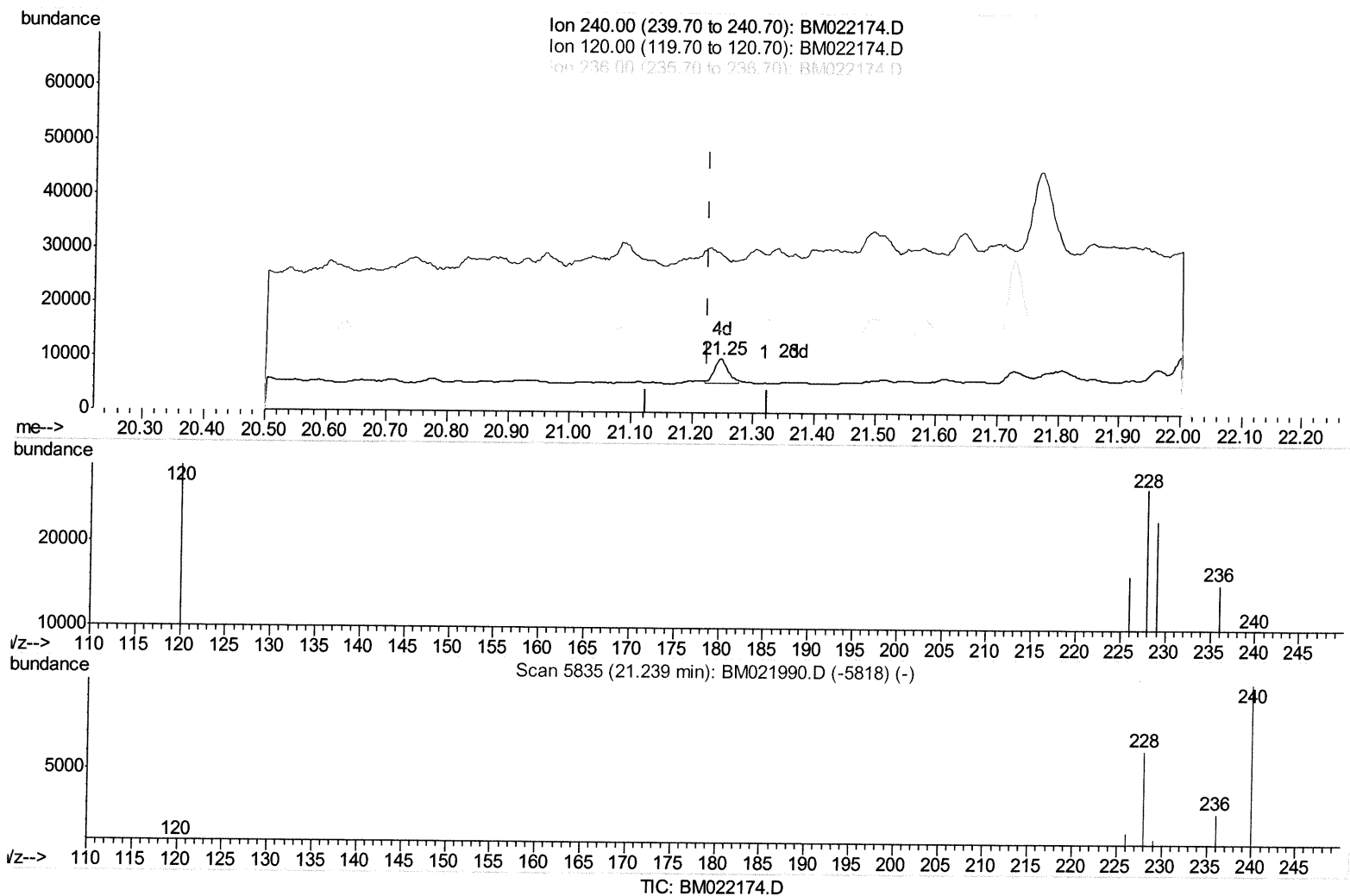
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 ALS Vial : 3 Sample Multiplier: 1

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Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

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(16) Chrysene-d12 (I)

21.249min (+0.024) 0.40ng/ul m

JU 8/20/19

response 6936

Ion	Exp%	Act%
240.00	100	100
120.00	16.20	290.72#
236.00	32.30	153.91#
0.00	0.00	0.00

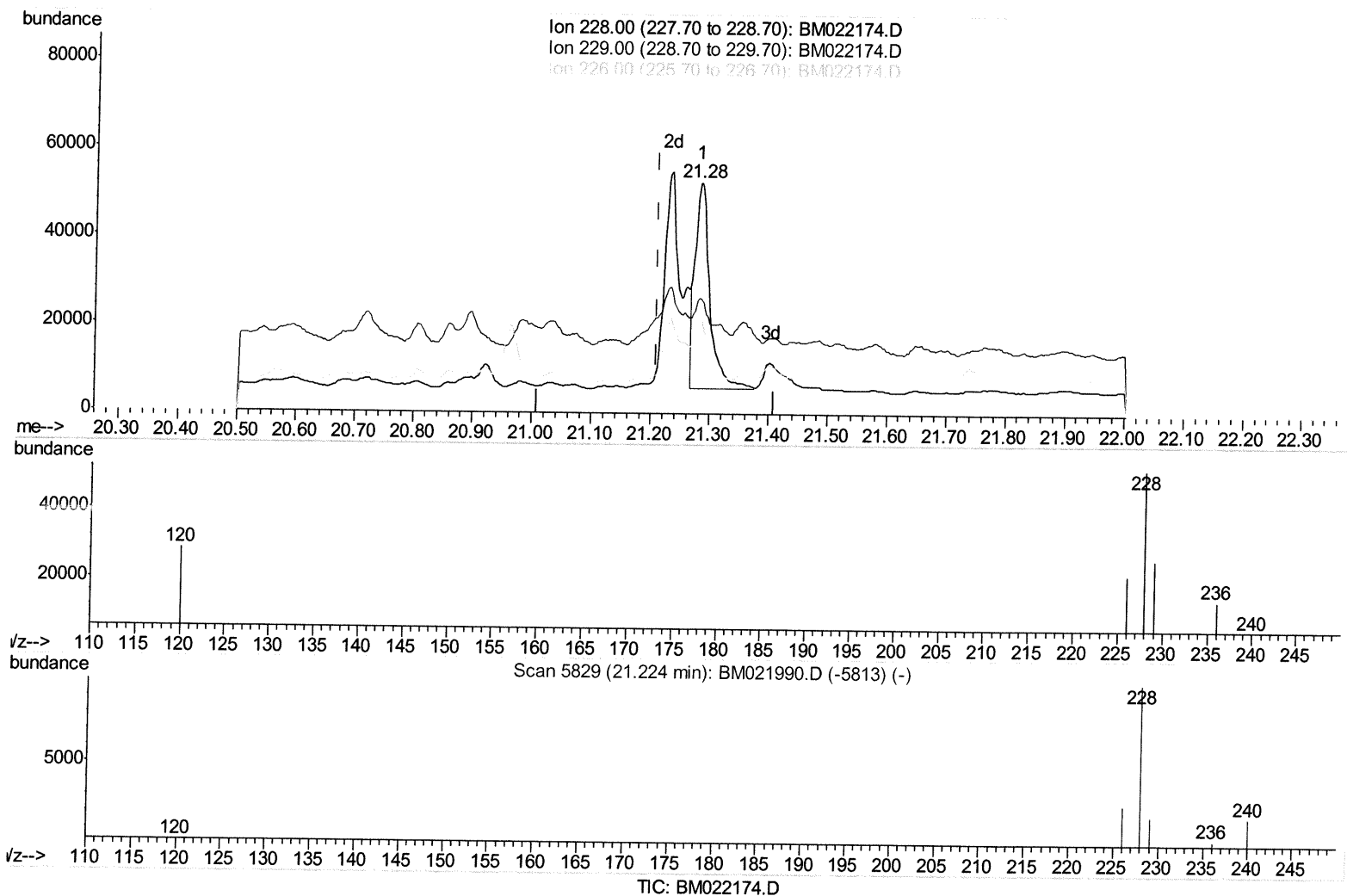
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 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:45:16 2019
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(18) Benzo(a)anthracene

21.283min (+0.073) 3.33ng/ul

response 82720

Ion	Exp%	Act%
228.00	100	100
229.00	21.50	49.86#
226.00	28.30	41.35#
0.00	0.00	0.00

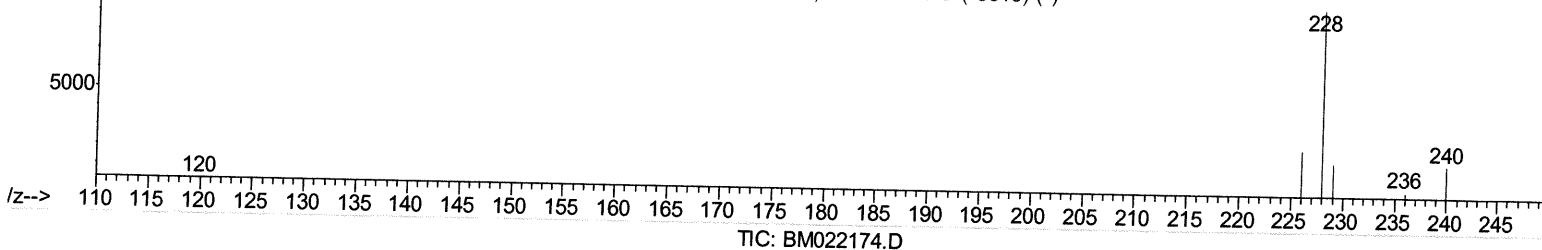
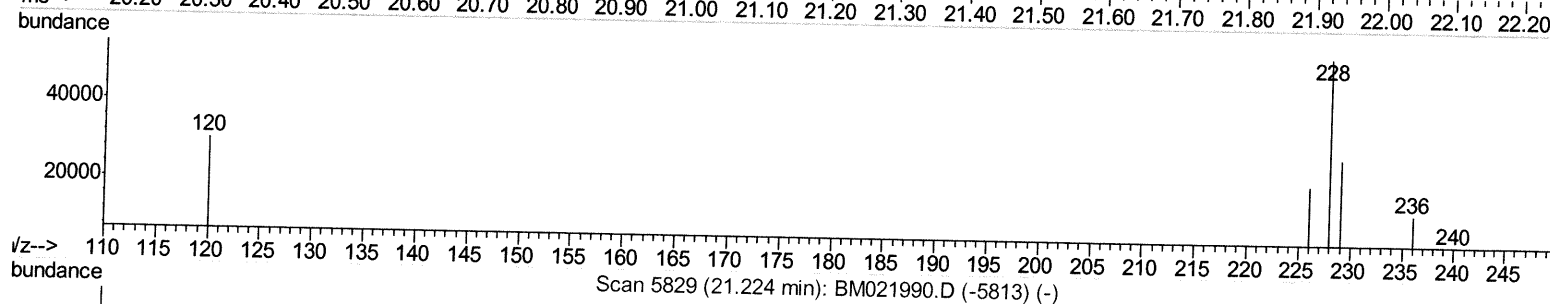
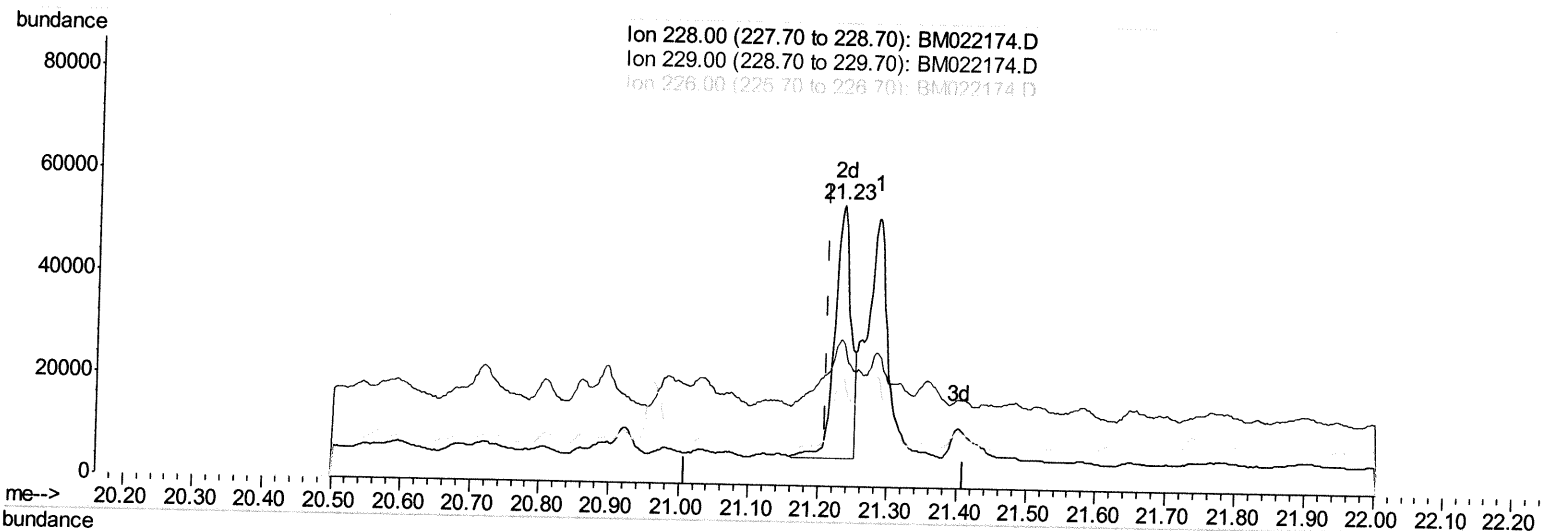
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(18) Benzo(a)anthracene

21.232min (+0.022) 3.22ng/ul m

JU 8/20/19

response 79801

Ion	Exp%	Act%
228.00	100	100
229.00	21.50	52.37#
226.00	28.30	39.80#
0.00	0.00	0.00

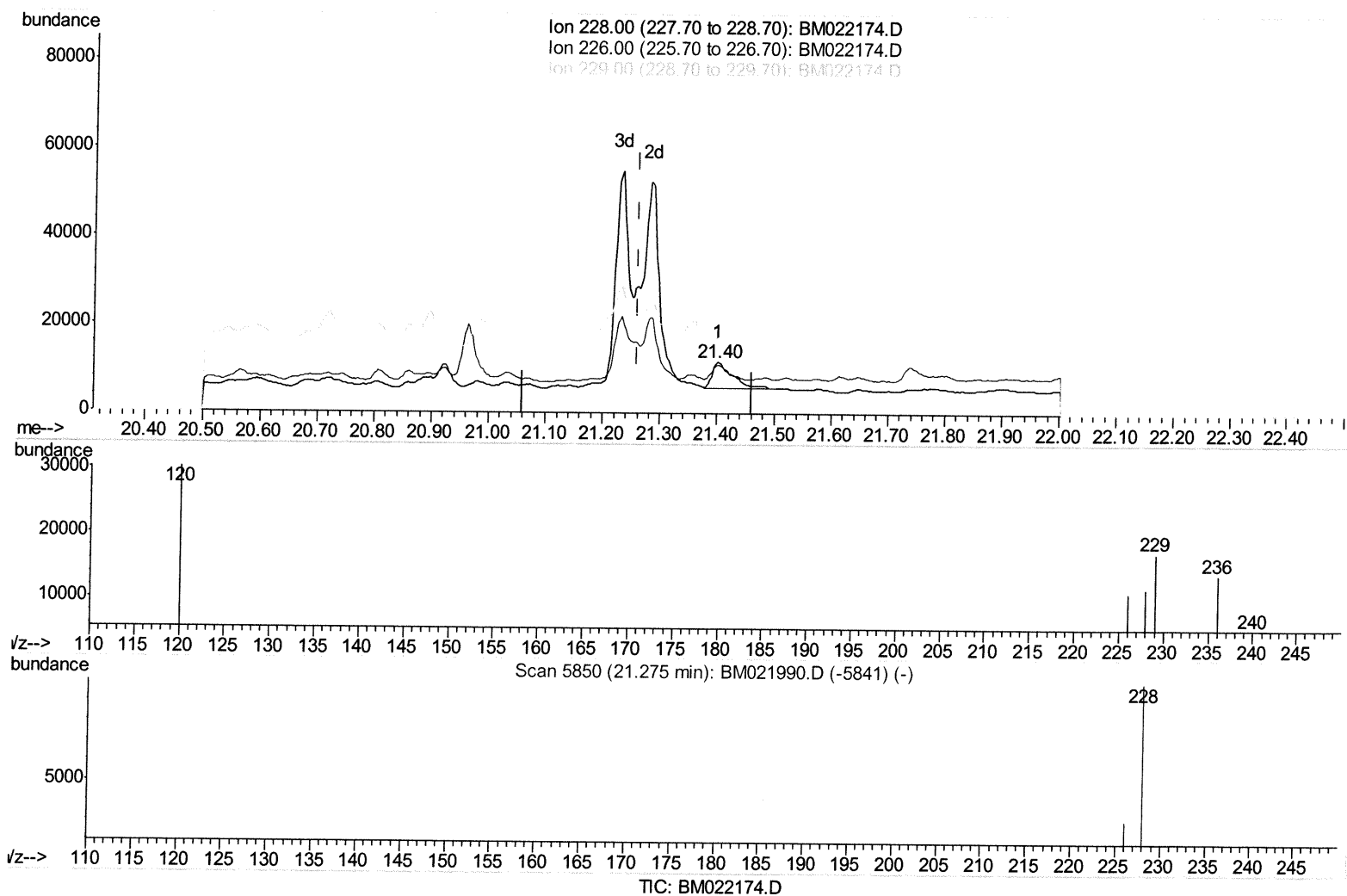
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(19) Chrysene

21.401min (+0.140) 0.48ng/ul

response 15181

Ion	Exp%	Act%
228.00	100	100
226.00	31.10	94.50#
229.00	20.80	147.12#
0.00	0.00	0.00

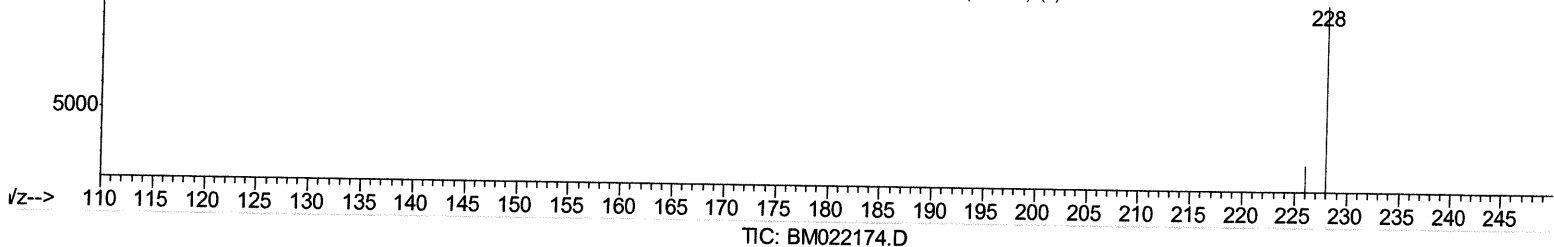
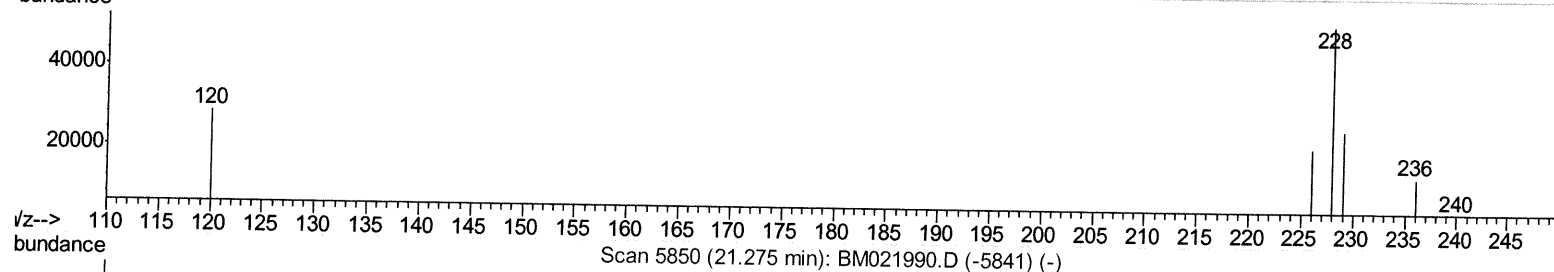
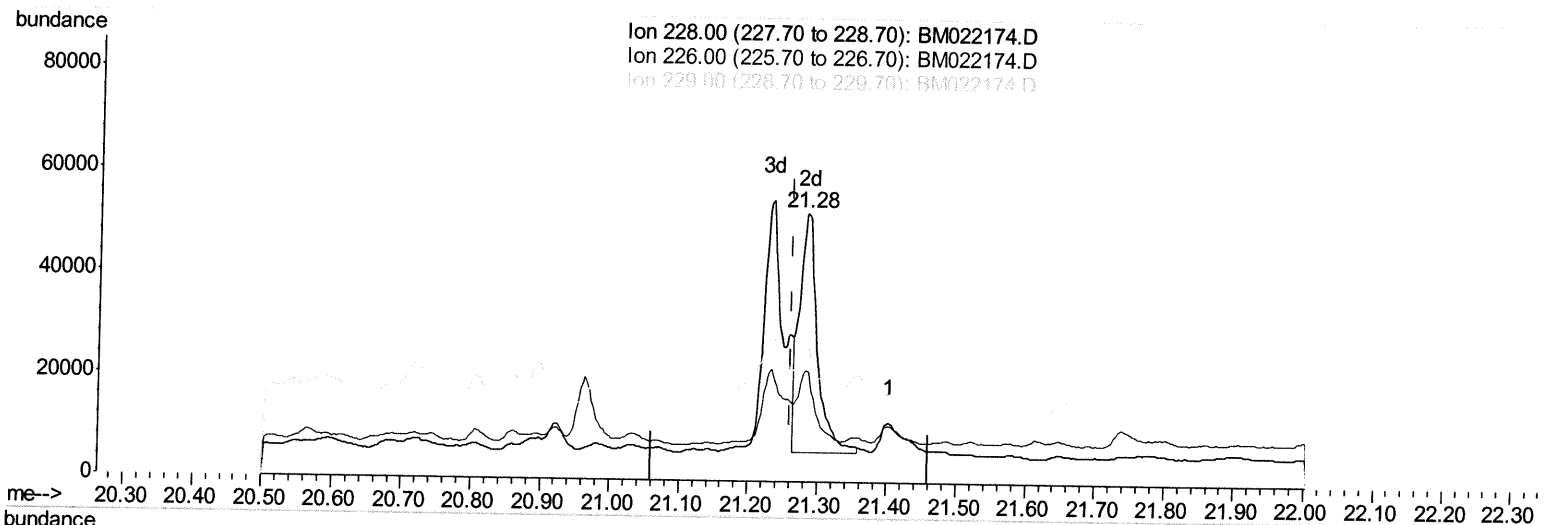
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(19) Chrysene

21.283min (+0.022) 2.70ng/ul m *JU 08/20/19*

response 86228

Ion	Exp%	Act%
228.00	100	100
226.00	31.10	41.35#
229.00	20.80	49.86#
0.00	0.00	0.00

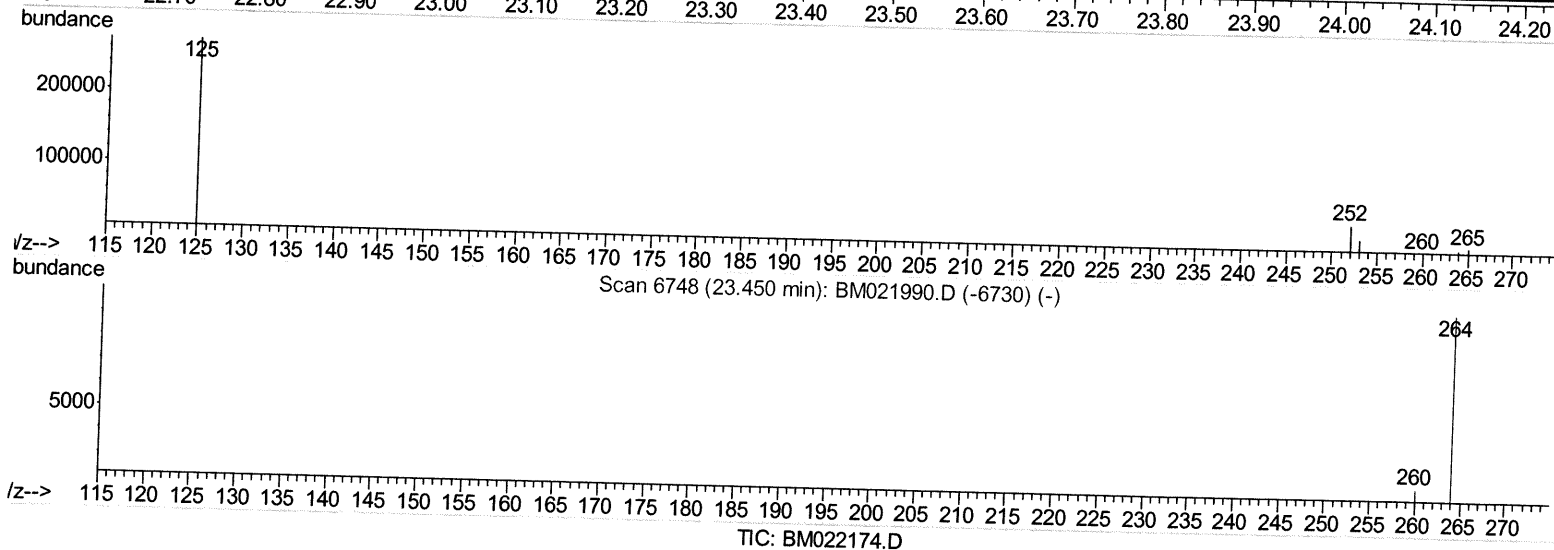
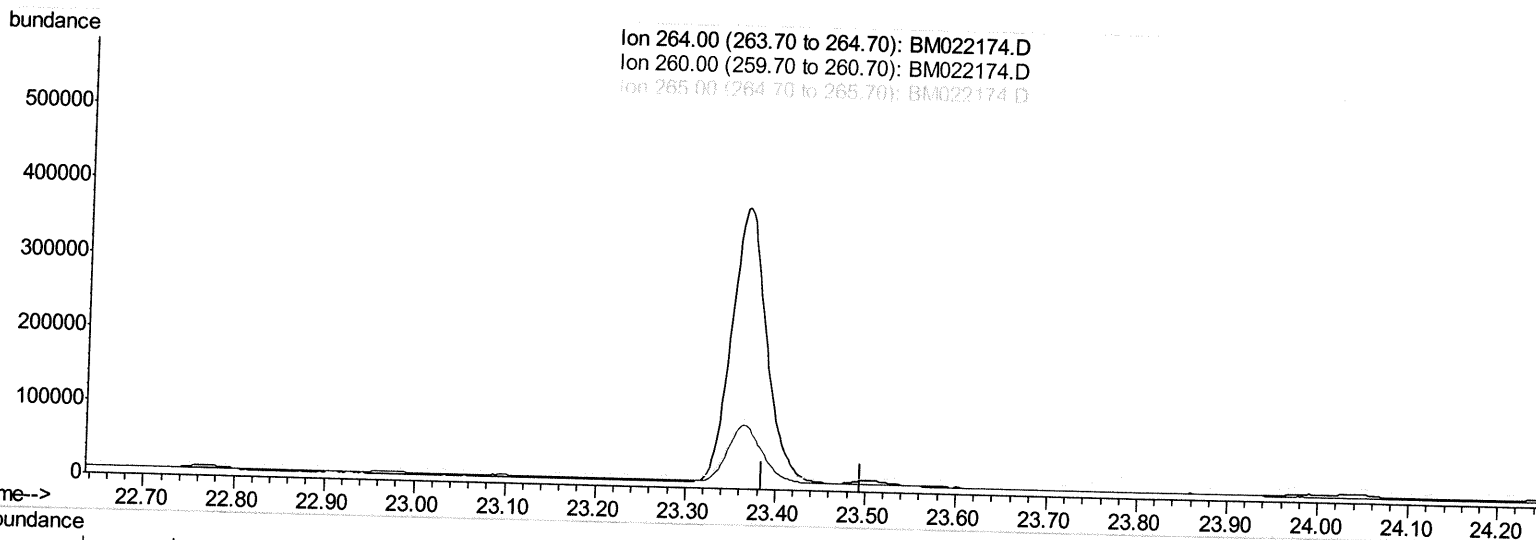
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 ClientSampled :
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(20) Perylene-d12 (I)

23.435min (-23.435) 0.00ng/ul

response 0

Ion	Exp%	Act%
264.00	100	0.00
260.00	27.50	0.00#
265.00	117.00	0.00#
0.00	0.00	0.00

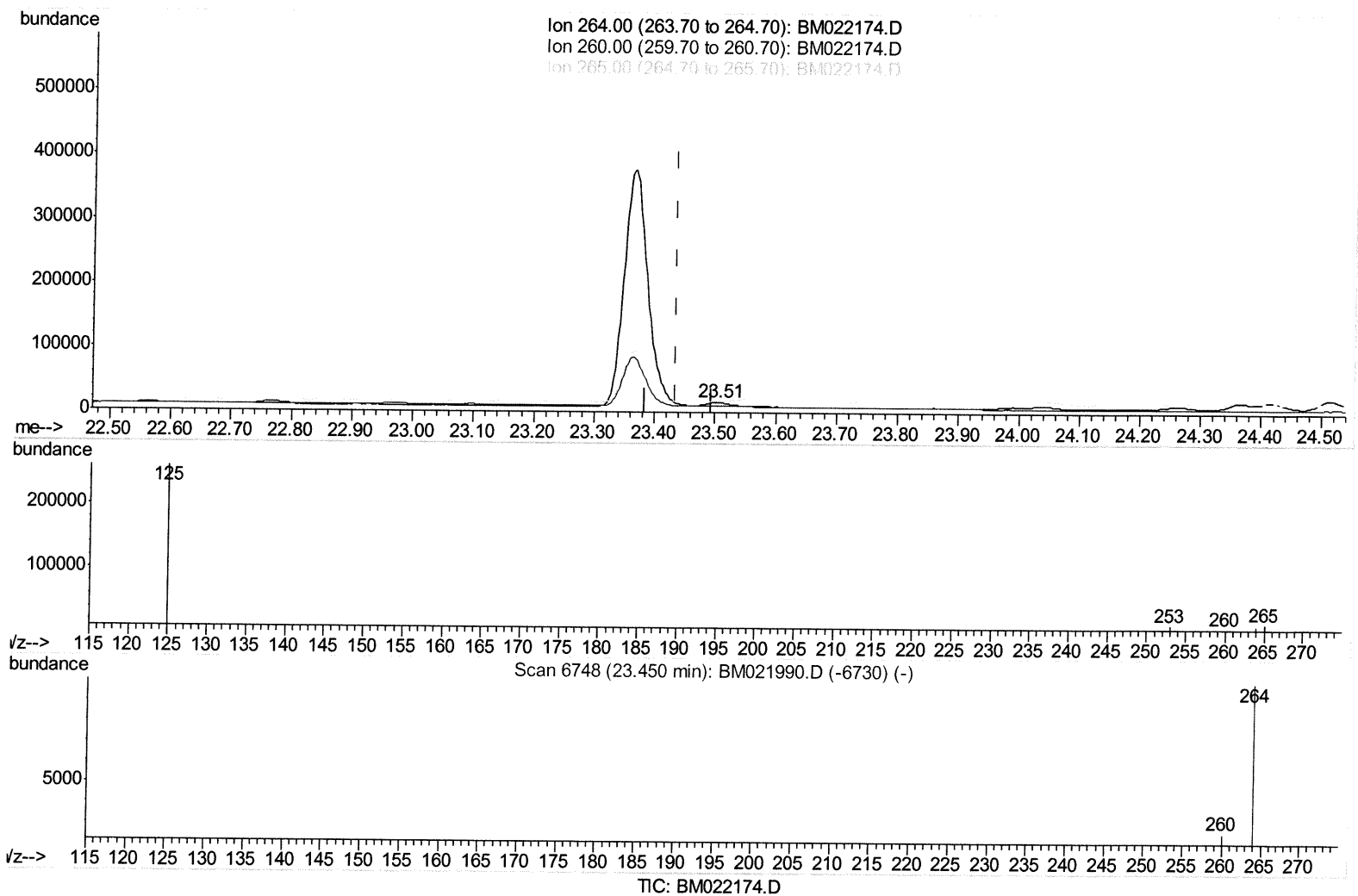
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:45:16 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(20) Perylene-d12 (I)

23.506min (+0.070) 0.40ng/ul m

JU
 08/20/19

response 11008

Ion	Exp%	Act%
264.00	100	100
260.00	27.50	65.92#
265.00	117.00	111.28
0.00	0.00	0.00

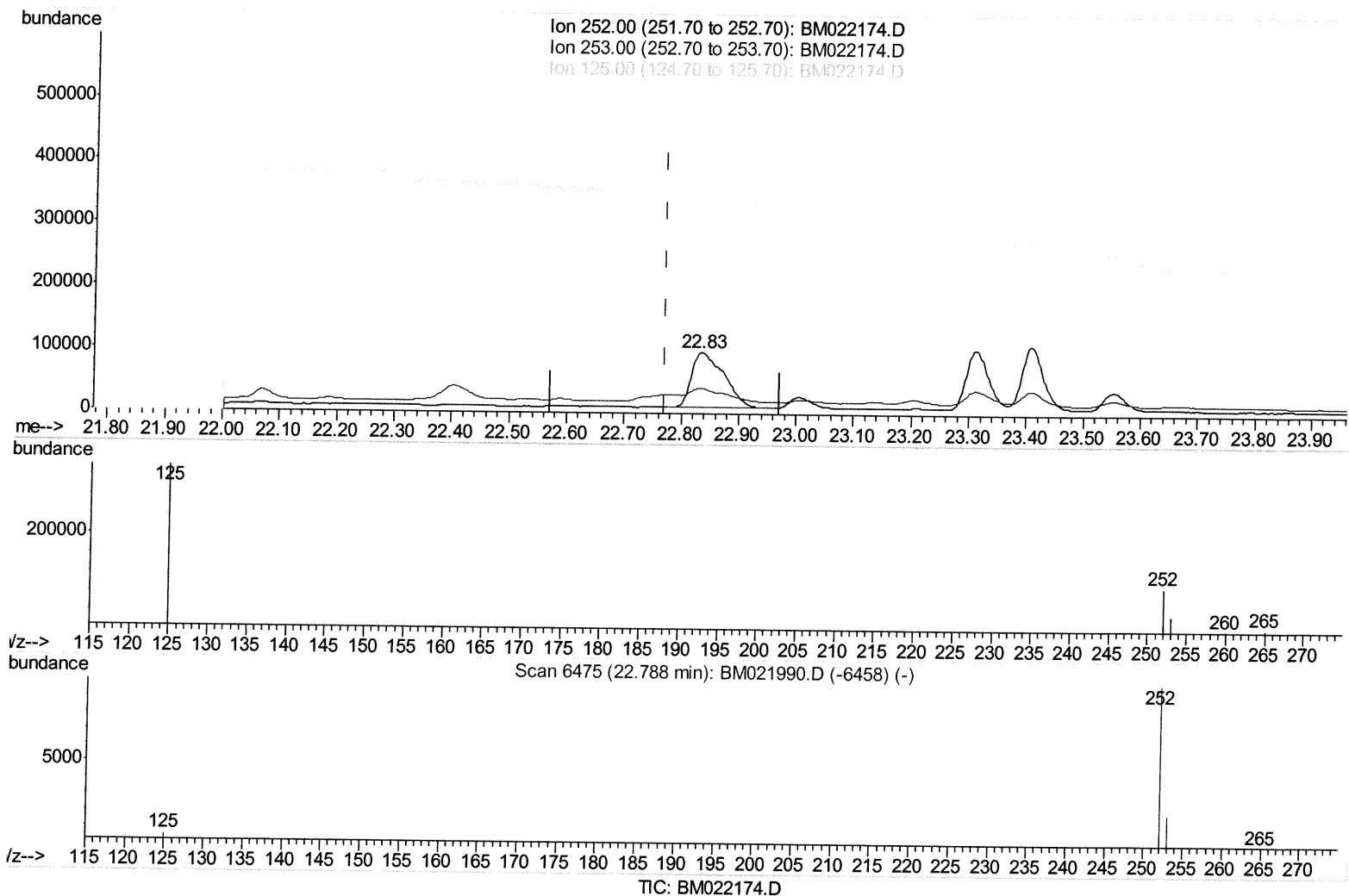
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:47:05 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.835min (+0.063) 9.34ng/ul

response 346752

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	41.75
125.00	15.50	348.47#
0.00	0.00	0.00

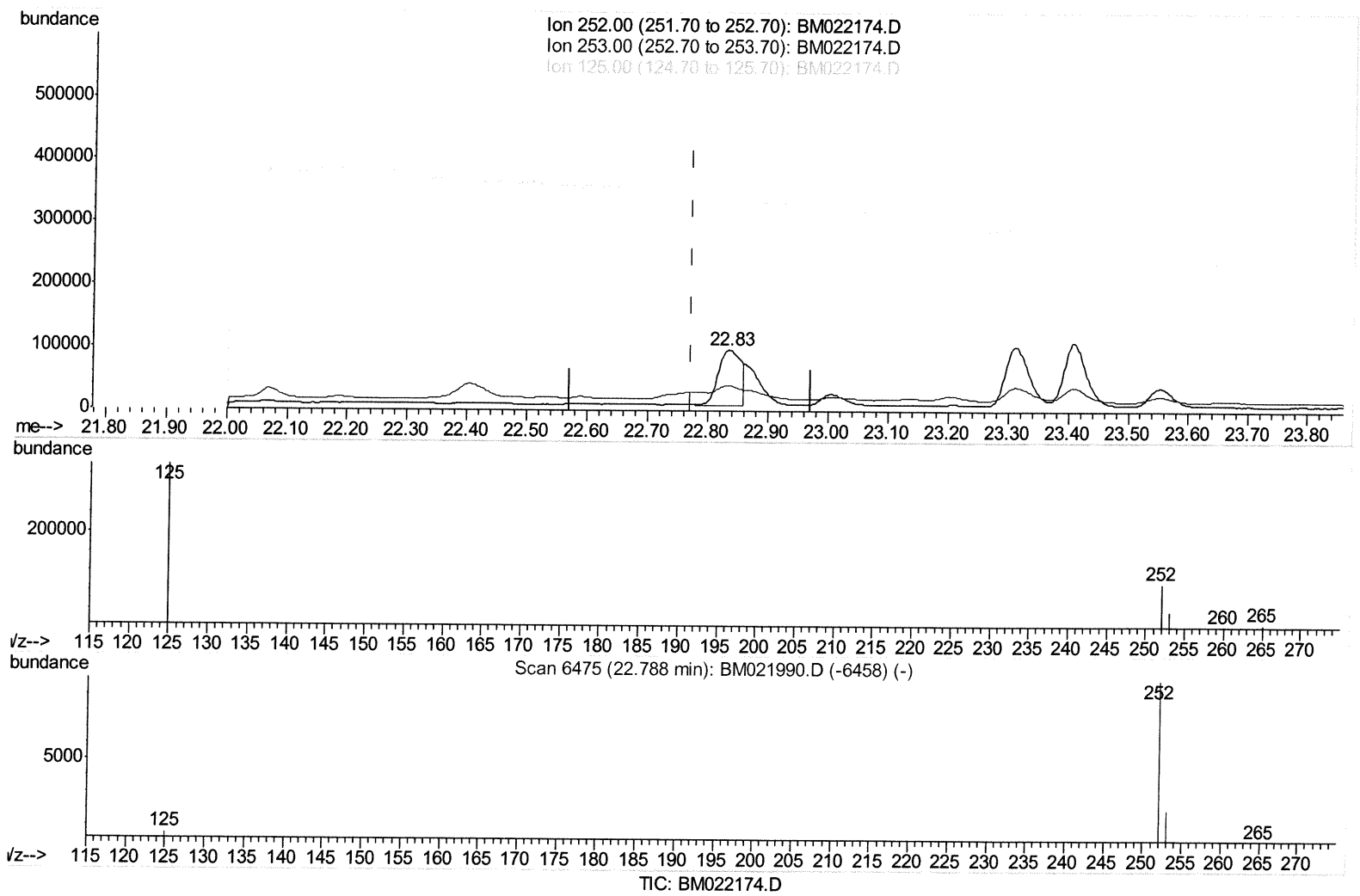
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:47:05 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.835min (+0.063) 6.25ng/ul m *JU 08/20/19*

response 231854

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	41.75
125.00	15.50	348.47#
0.00	0.00	0.00

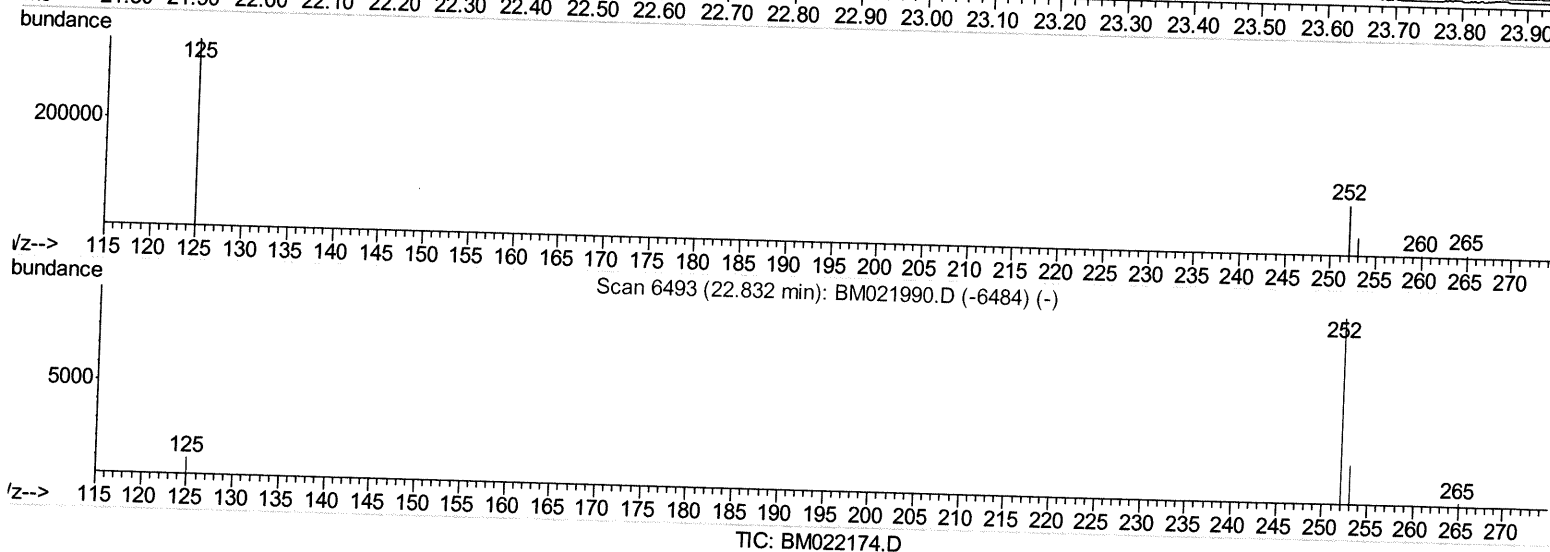
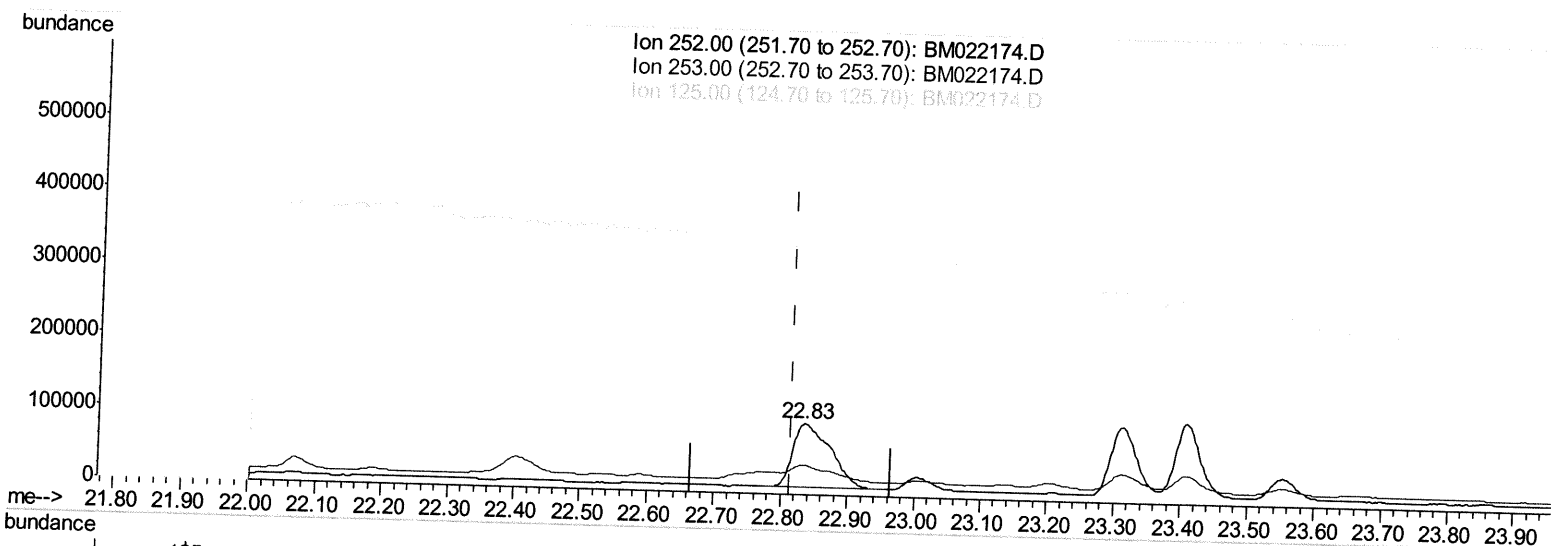
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:47:05 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.835min (+0.020) 8.25ng/ul

response 346601

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	41.75#
125.00	15.20	348.47#
0.00	0.00	0.00

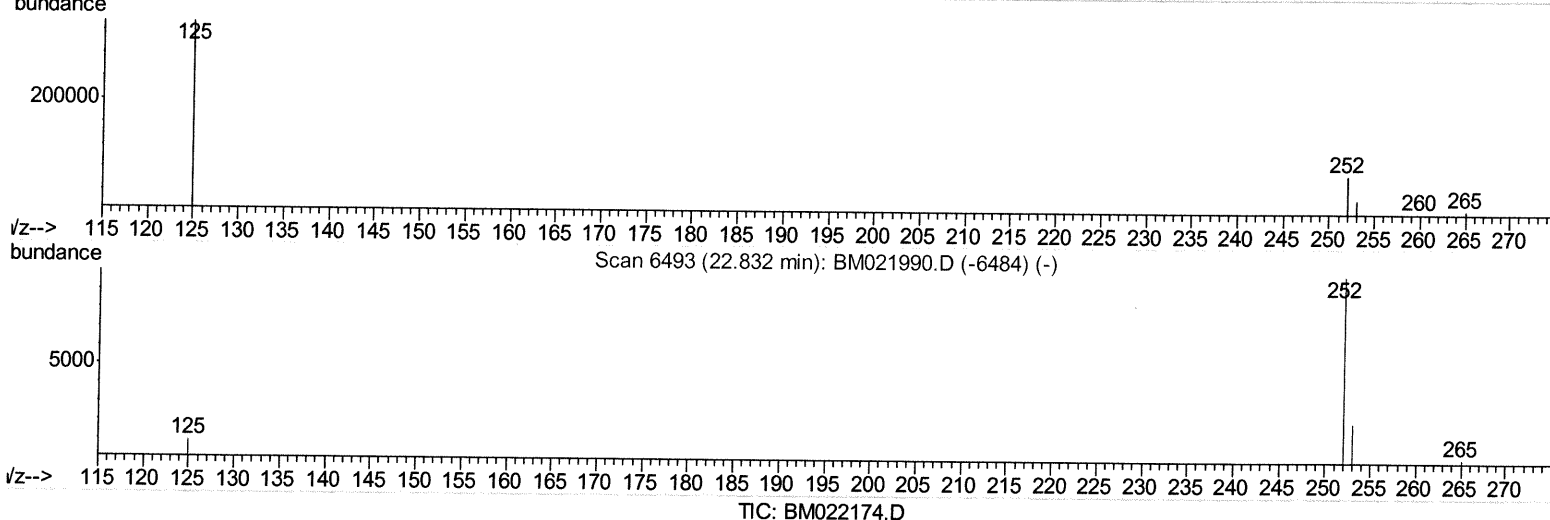
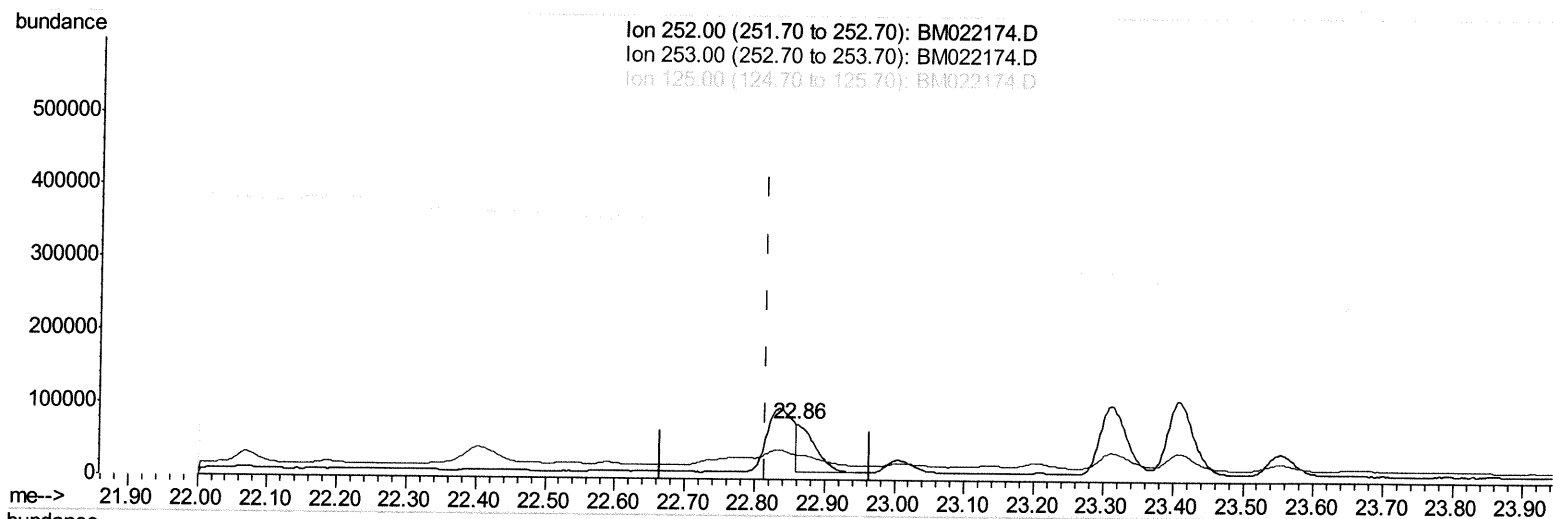
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:47:05 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.859min (+0.044) 2.89ng/ul m

JU 08/20/19

response 121403

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	44.32#
125.00	15.20	441.65#
0.00	0.00	0.00

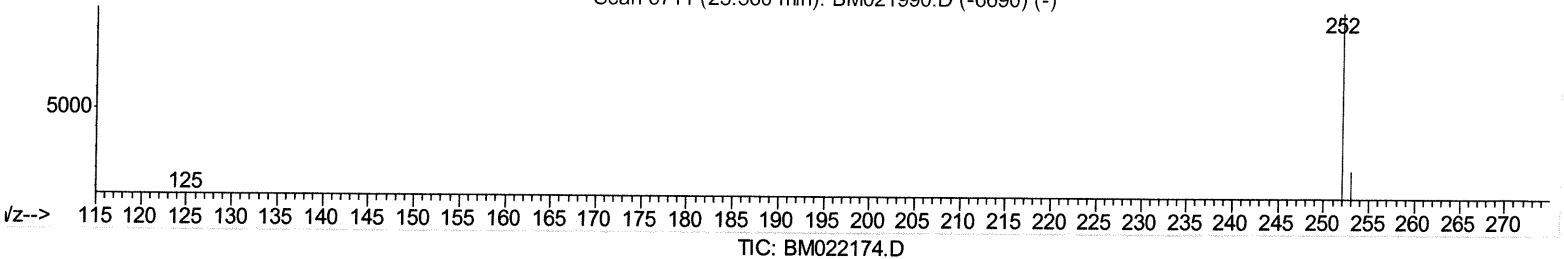
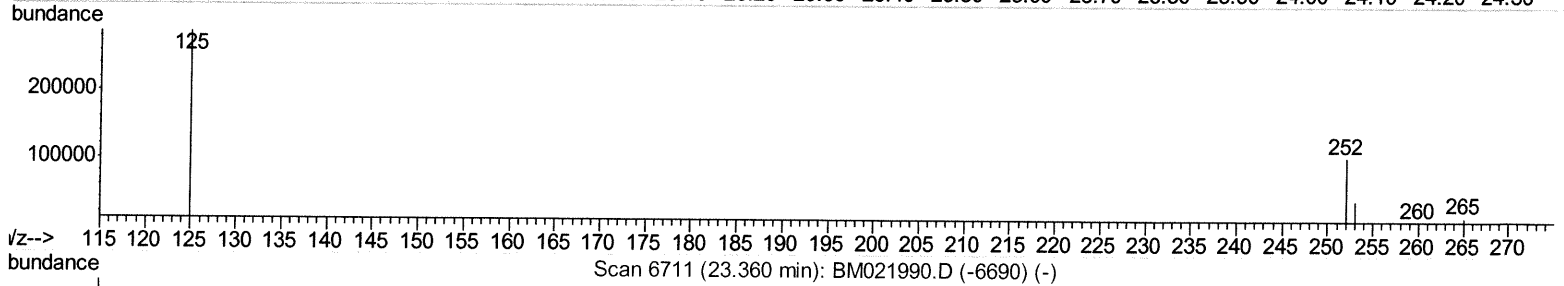
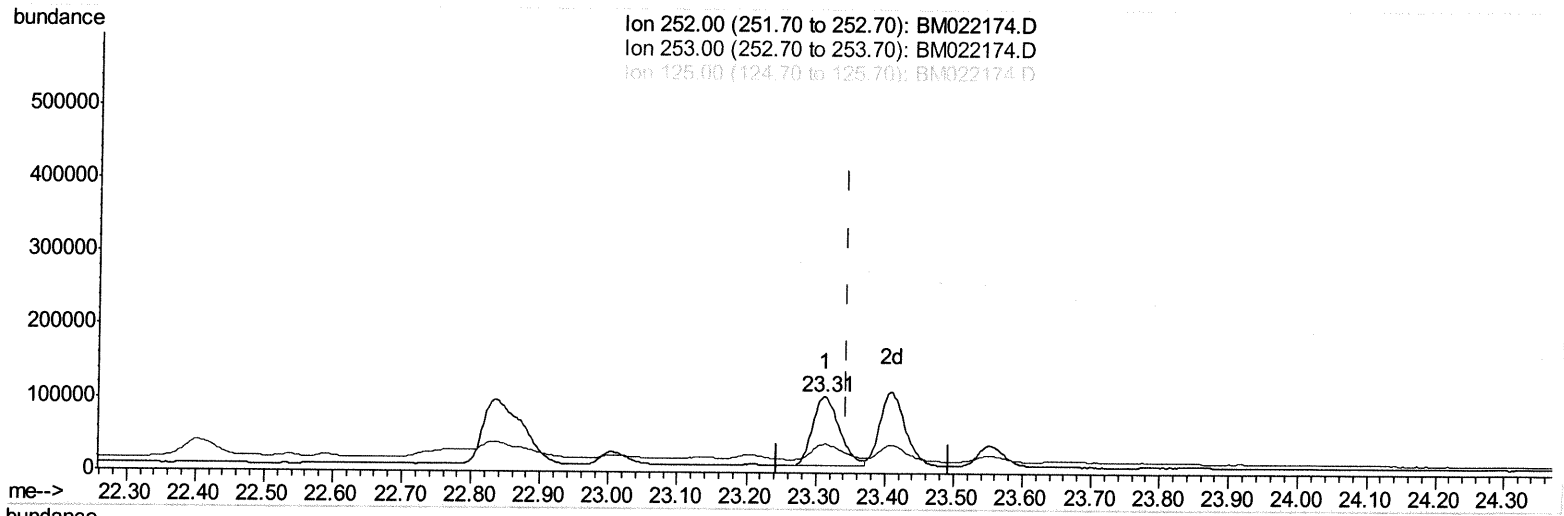
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:47:05 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(23) Benzo(a)pyrene (C)

23.312min (-0.031) 6.84ng/ul

response 258118

Ion	Exp%	Act%
252.00	100	100
253.00	39.60	38.15
125.00	18.20	275.73#
0.00	0.00	0.00

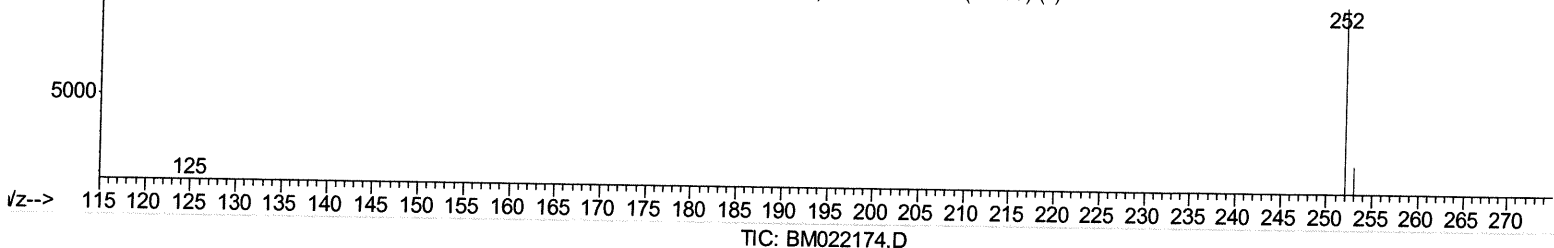
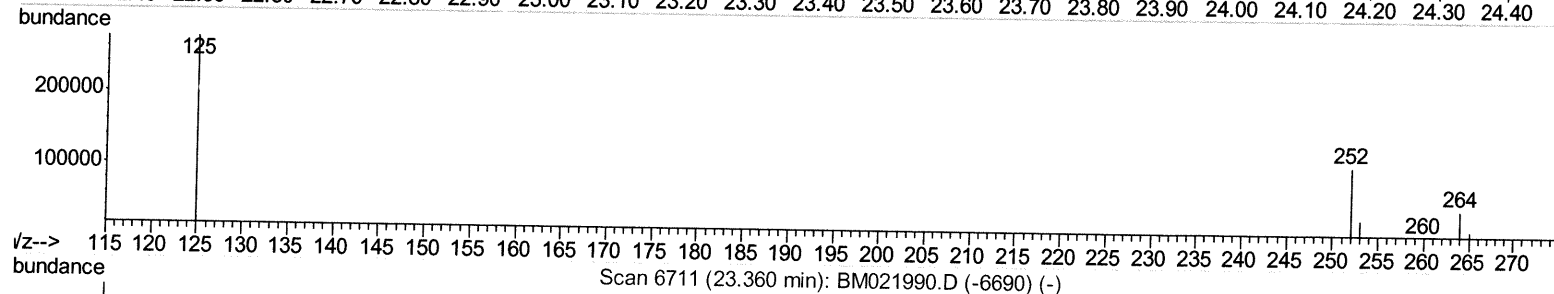
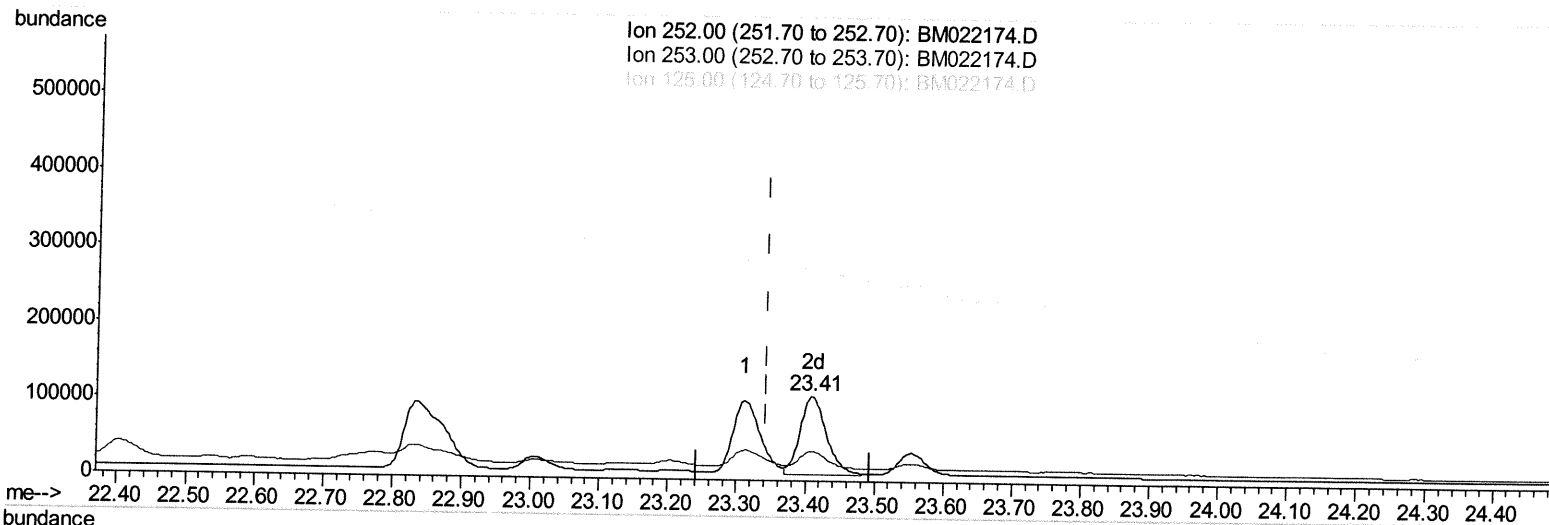
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
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Quant Time: Aug 19 14:47:05 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(23) Benzo(a)pyrene (C)

23.409min (+0.066) 7.19ng/ul m

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response 271550

Ion	Exp%	Act%
252.00	100	100
253.00	39.60	35.40
125.00	18.20	247.35#
0.00	0.00	0.00

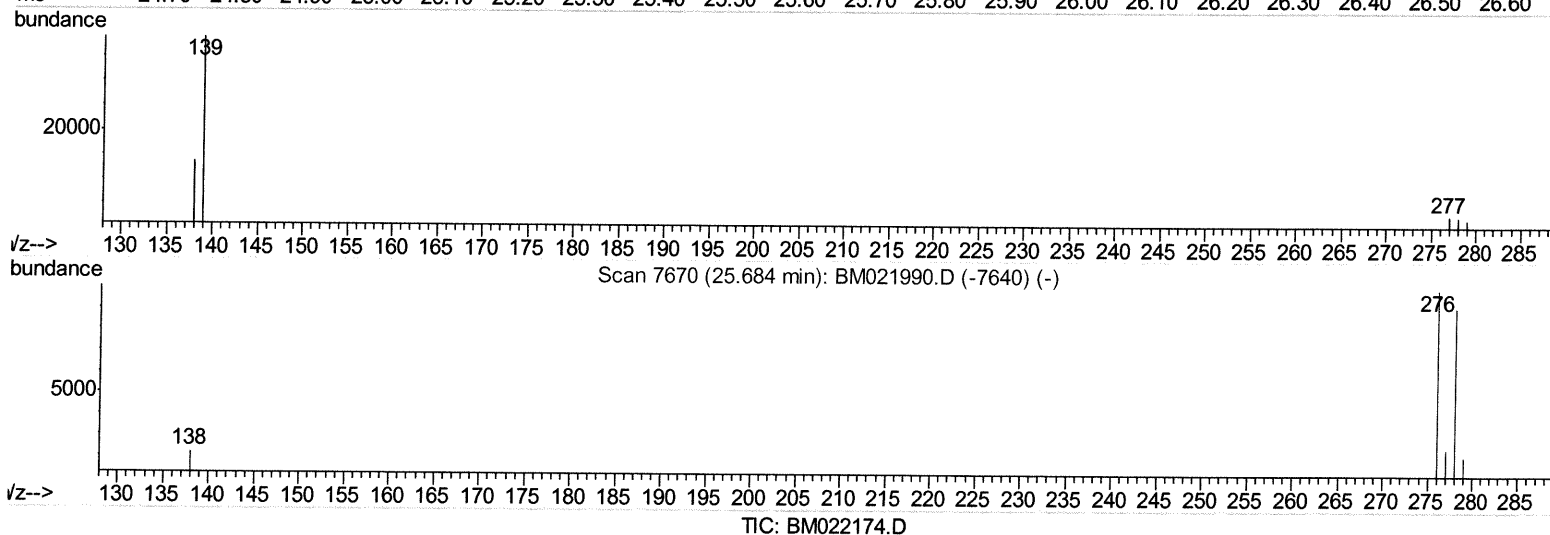
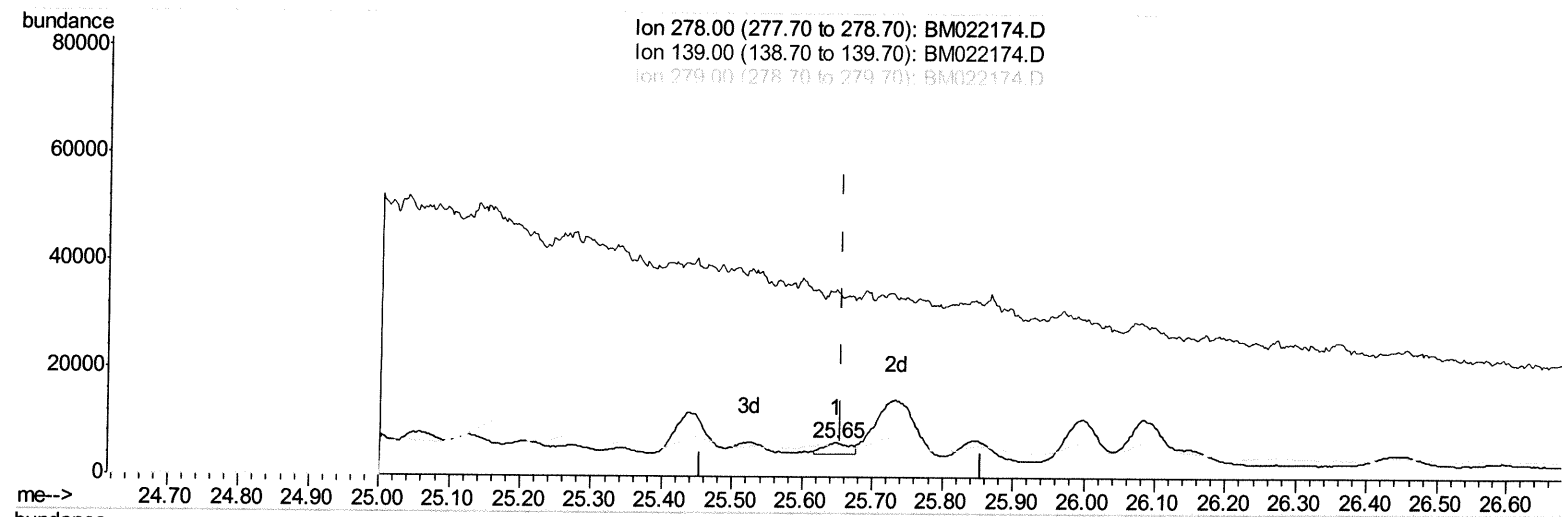
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

mohammad
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Quant Time: Aug 19 14:47:05 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(25) Dibenzo(a,h)anthracene

25.648min (-0.007) 0.15ng/ul

response 5618

Ion	Exp%	Act%
278.00	100	100
139.00	17.70	549.94#
279.00	35.40	94.31#
0.00	0.00	0.00

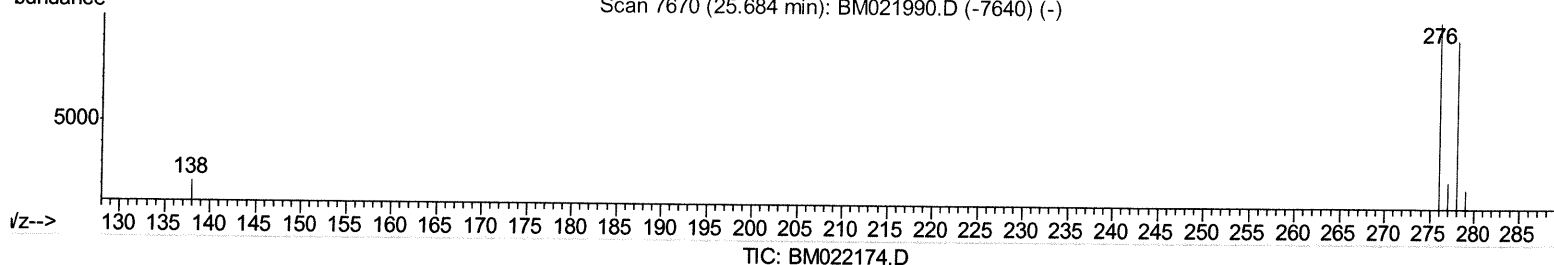
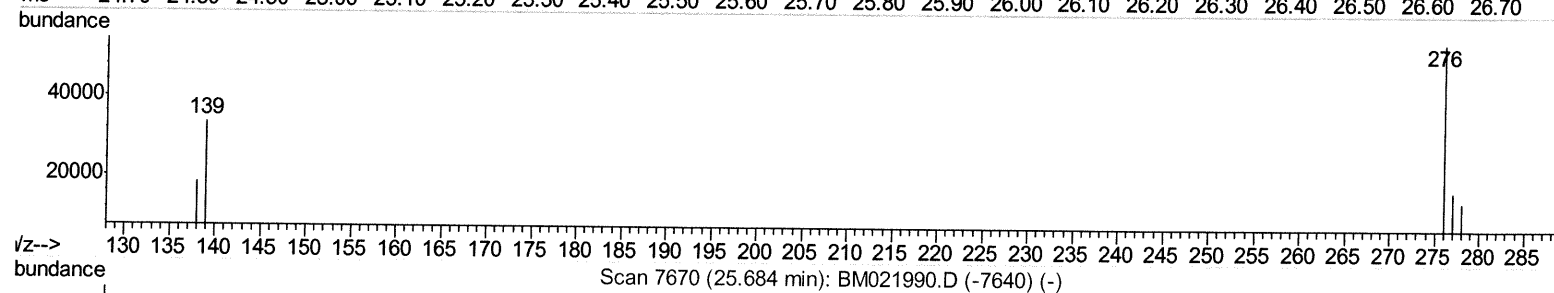
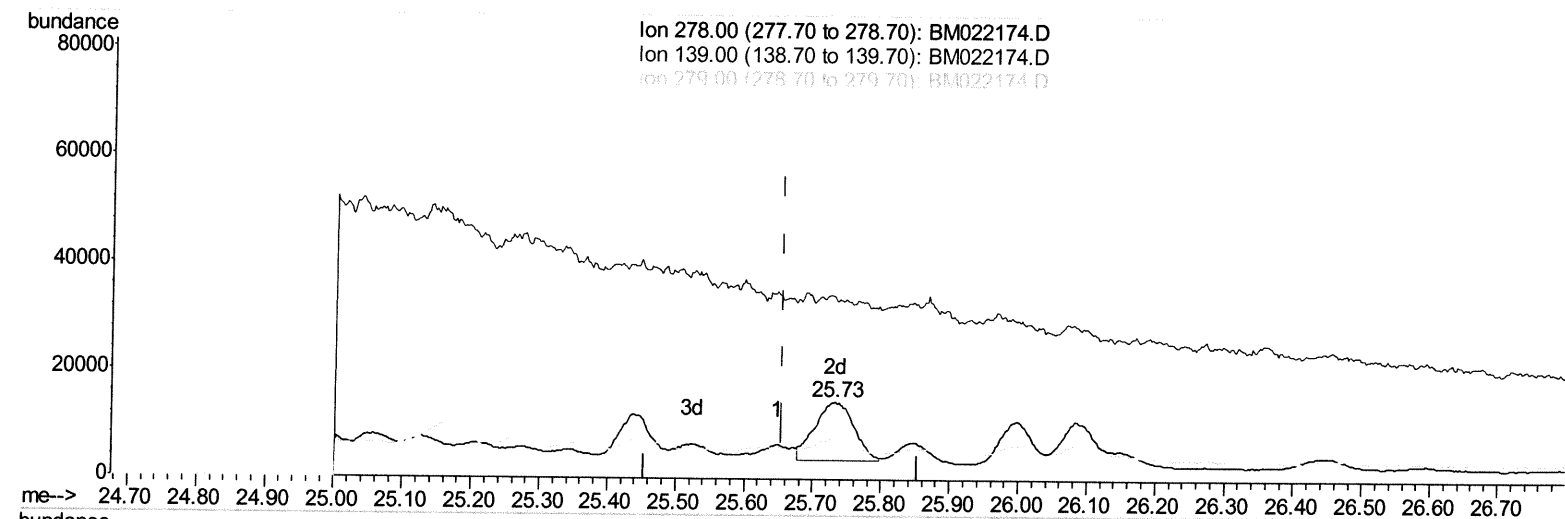
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
 APPROVED

mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:47:05 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration



(25) Dibenzo(a,h)anthracene

25.732min (+0.078) 1.18ng/ul m

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response 42901

Ion	Exp%	Act%
278.00	100	100
139.00	17.70	232.93#
279.00	35.40	51.04#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081519\
 Data File : BM022174.D
 Acq On : 16 Aug 2019 17:36
 Operator : HP/JU
 Sample : K4242-08RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AF7RE

Manual Integrations
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mohammad
 8/19/2019 5:32:10 PM

Quant Time: Aug 19 14:50:06 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 : Mon Aug 19 04:47:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	991	0.40	ng/ul	0.00
2) Naphthalene-d8	10.37	136	3646	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.25	164	2425	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.01	188	5093m	0.40	ng/ul	0.00
16) Chrysene-d12	21.25	240	6936m	0.40	ng/ul	0.02
20) Perylene-d12	23.51	264	11008m	0.40	ng/ul	0.07

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System Monitoring Compounds

4) 2-Methylnaphthalene-d10	11.96	152	1973	0.33	ng/ul	-0.02
14) Fluoranthene-d10	19.05	212	7190m	0.42	ng/ul	0.00

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Target Compounds

					Qvalue	
3) Naphthalene	10.41	128	18647	1.811	ng/ul#	68
5) 2-Methylnaphthalene	12.04	142	10154	1.480	ng/ul	99
7) Acenaphthylene	13.97	152	9793	0.866	ng/ul#	80
8) Acenaphthene	14.31	153	1666	0.180	ng/ul#	87
9) Fluorene	15.30	166	2079	0.202	ng/ul#	69
12) Phenanthrene	17.05	178	29689m	2.003	ng/ul	
13) Anthracene	17.14	178	11229m	0.888	ng/ul	
15) Fluoranthene	19.09	202	145095m	7.309	ng/ul	
17) Pyrene	19.45	202	209100	7.336	ng/ul#	94
18) Benzo(a)anthracene	21.23	228	79801m	3.217	ng/ul	
19) Chrysene	21.28	228	86228m	2.702	ng/ul	
21) Benzo(b)fluoranthene	22.83	252	231854m	6.246	ng/ul	
22) Benzo(k)fluoranthene	22.86	252	121403m	2.890	ng/ul	
23) Benzo(a)pyrene	23.41	252	271550m	7.193	ng/ul	
24) Indeno(1,2,3-cd)pyrene	25.74	276	172282	3.822	ng/ul#	78
25) Dibenzo(a,h)anthracene	25.73	278	42901m	1.178	ng/ul	
26) Benzo(g,h,i)perylene	26.43	276	169798	4.184	ng/ul#	87

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