

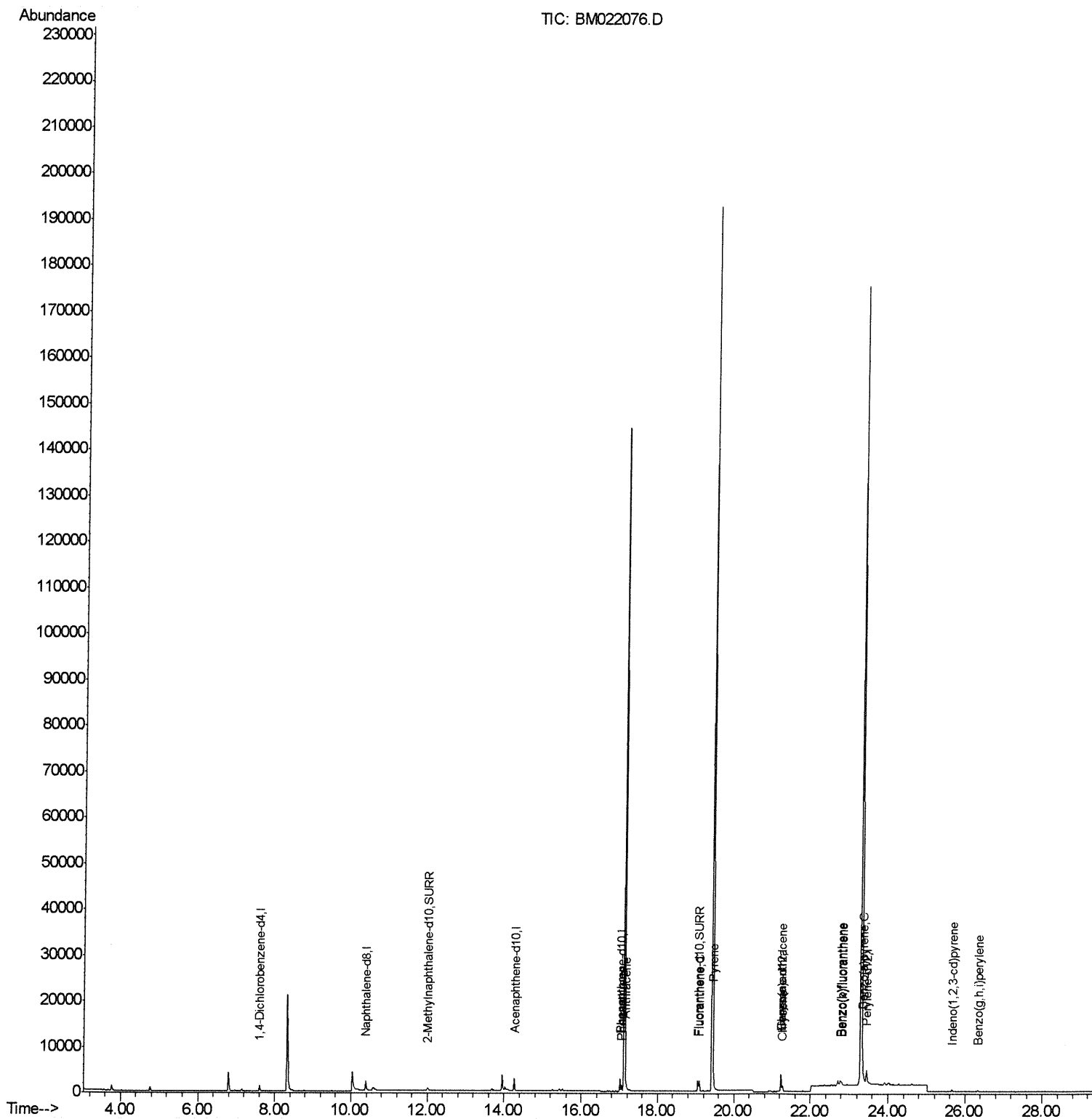
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:47:53 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



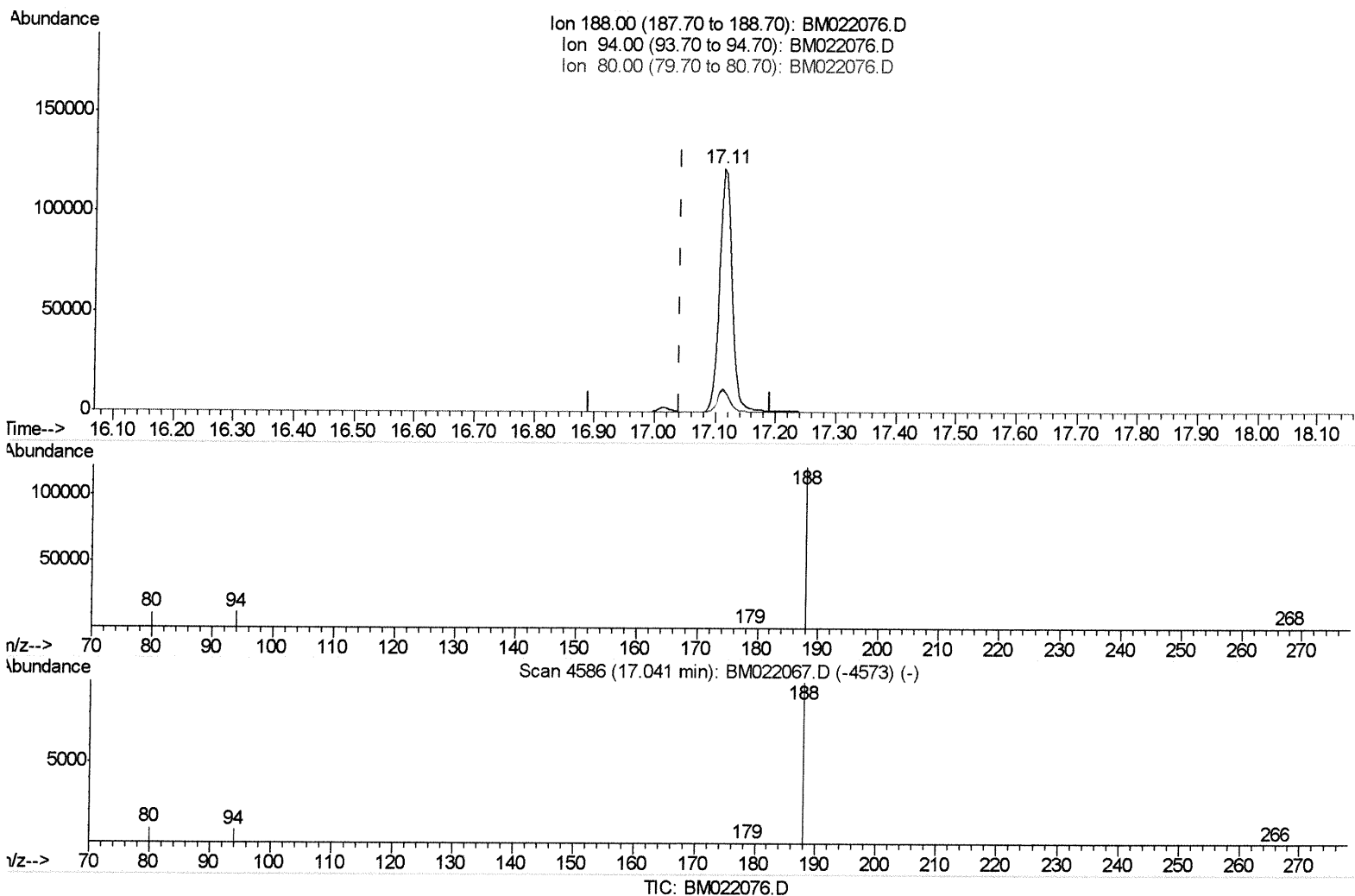
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:22:05 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.112min (+0.071) 0.40ng/ul

response 173376

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	9.46
80.00	11.40	9.01#
0.00	0.00	0.00

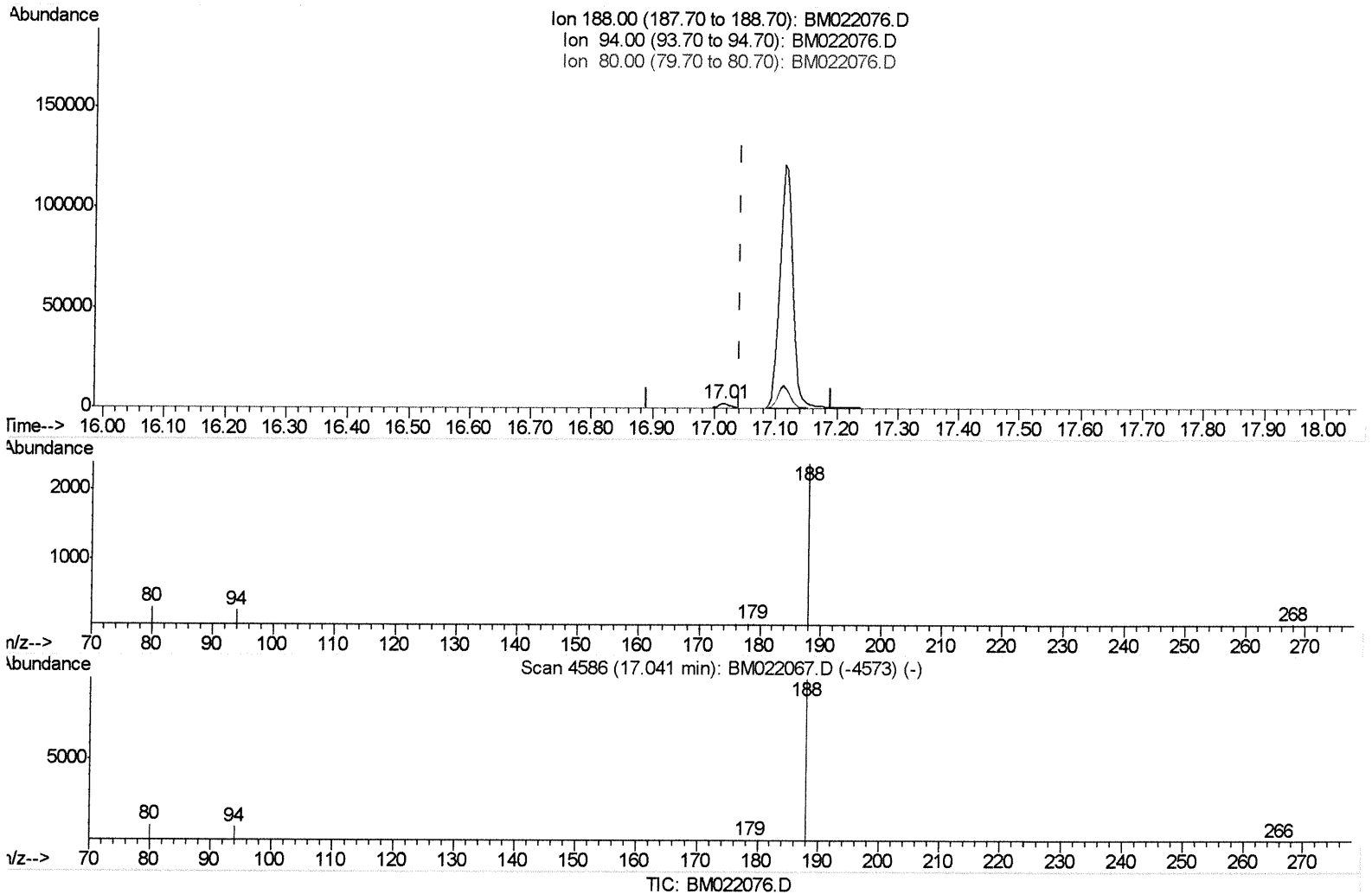
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:22:05 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.015min (-0.026) 0.40ng/ul m

JU
08/14/19

response 3515

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	10.77
80.00	11.40	12.32
0.00	0.00	0.00

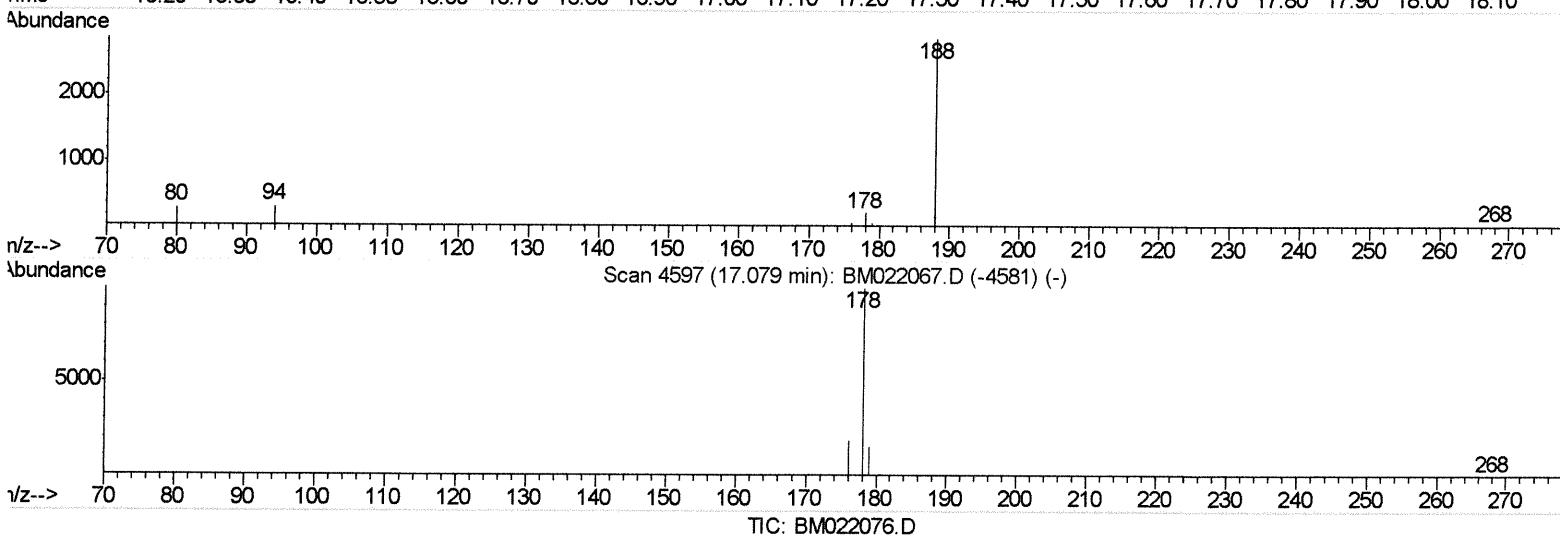
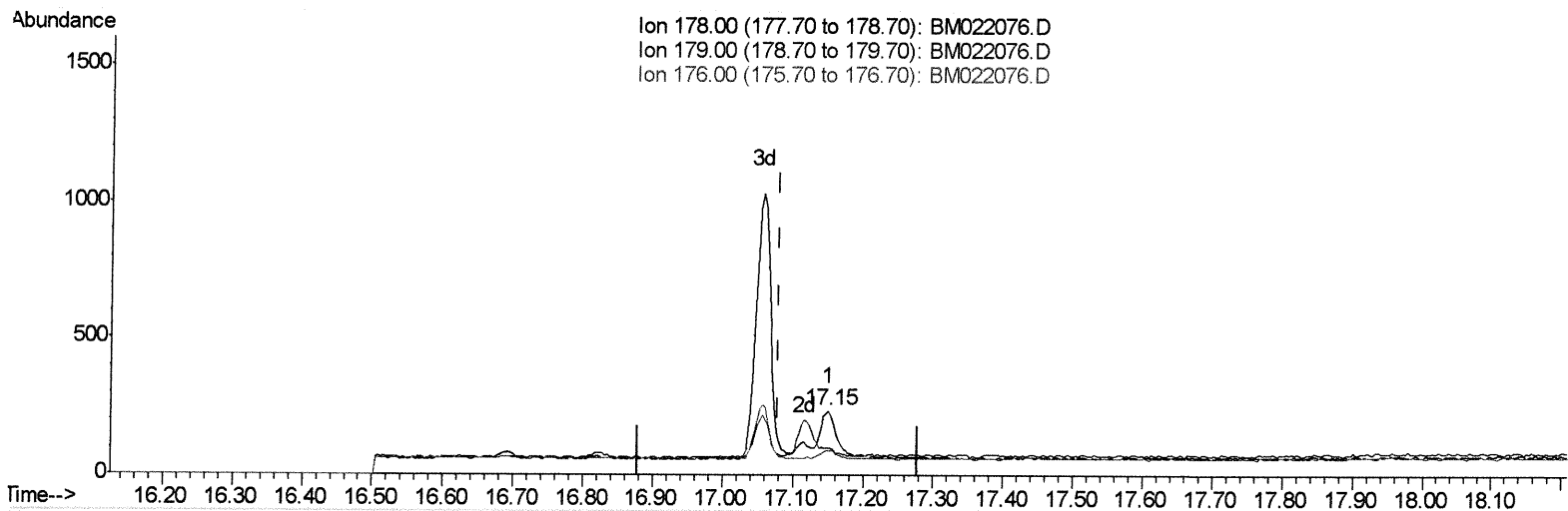
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:43:29 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(12) Phenanthrene

17.150min (+0.071) 0.03ng/ul

response 281

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	41.10#
176.00	21.00	37.29#
0.00	0.00	0.00

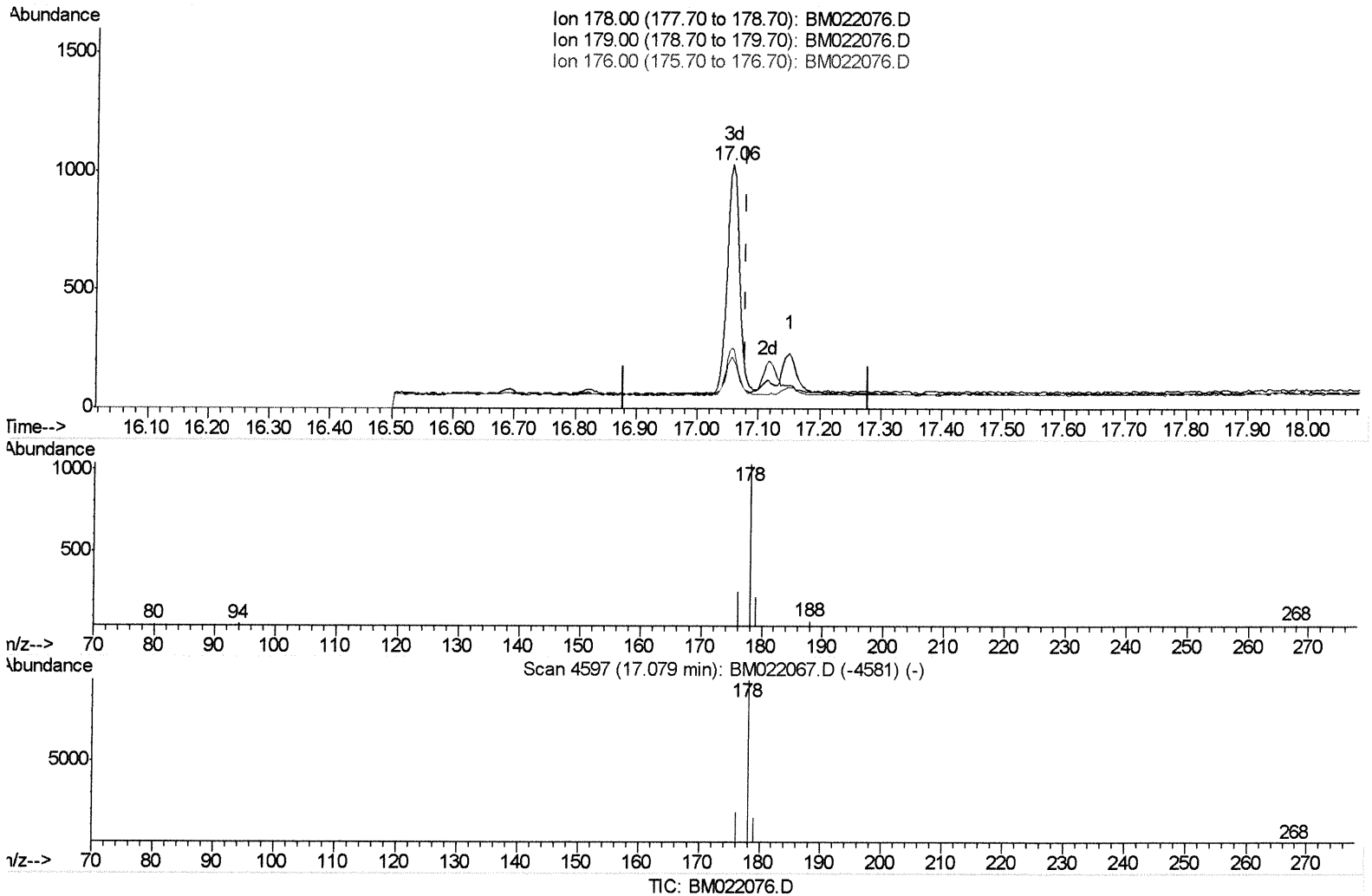
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:43:29 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(12) Phenanthrene

17.057min (-0.022) 0.14ng/ul m *JU 08/14/19*

response 1391

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	21.61#
176.00	21.00	25.19
0.00	0.00	0.00

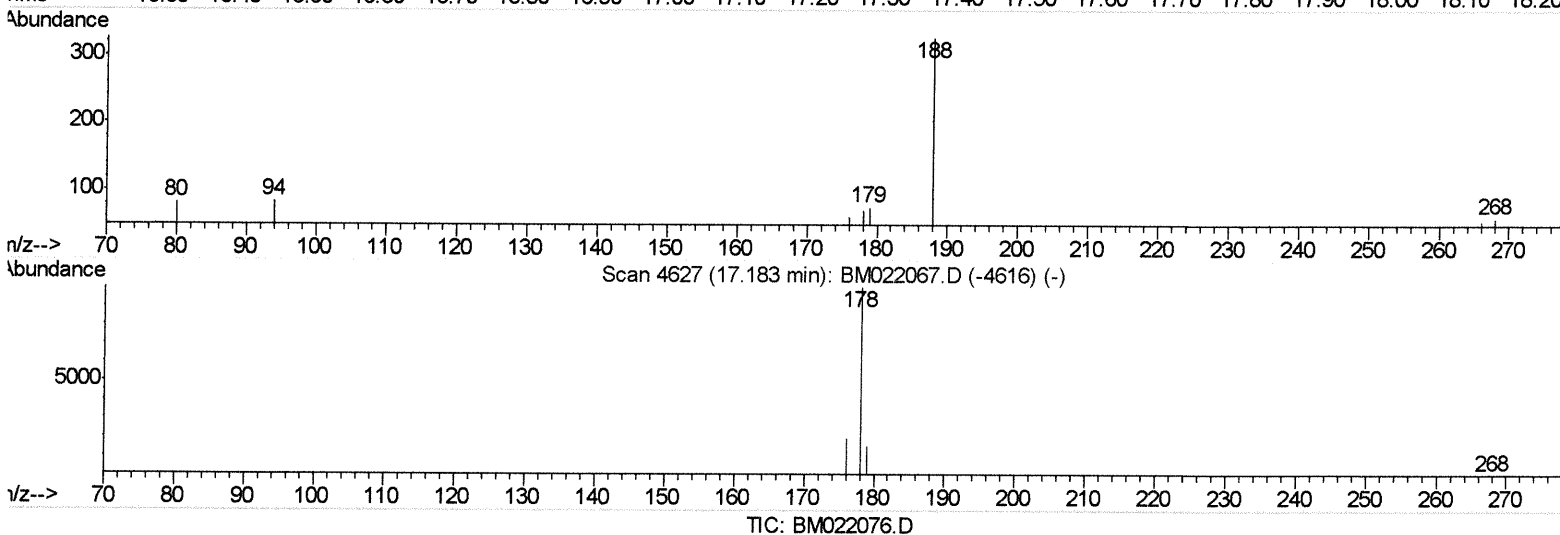
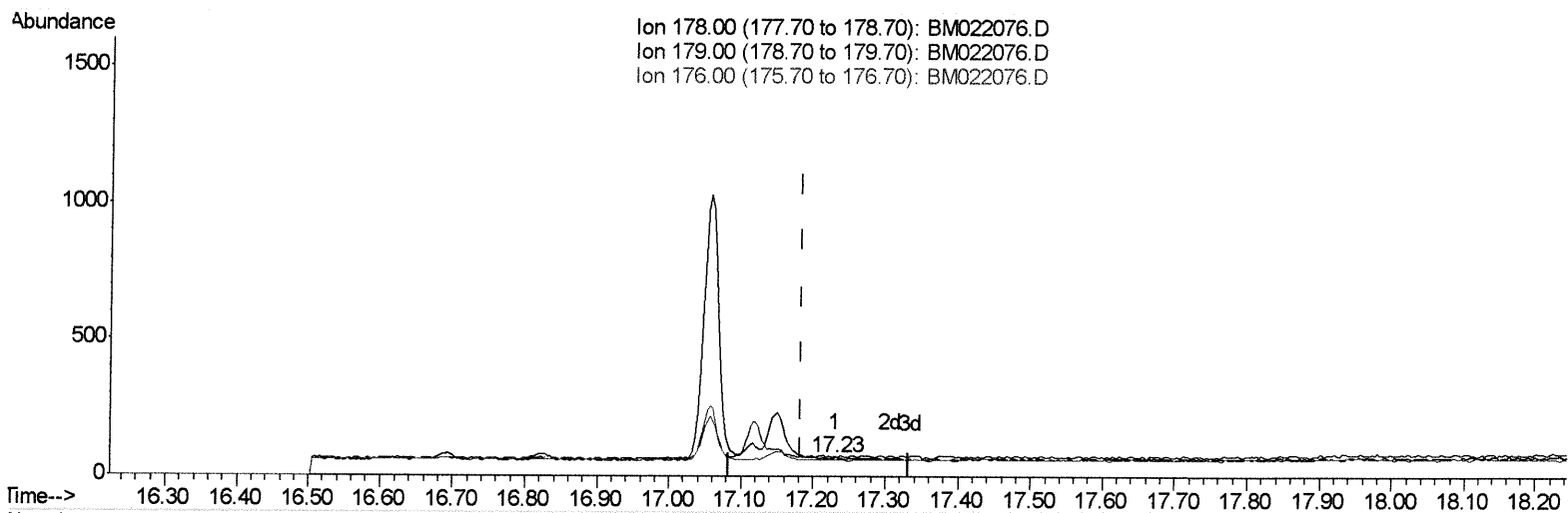
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
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Quant Time: Aug 14 07:43:29 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(13) Anthracene

17.230min (+0.047) 0.00ng/ui

response 6

Ion	Exp%	Act%
178.00	100	100
179.00	19.40	105.71#
176.00	20.80	87.14#
0.00	0.00	0.00

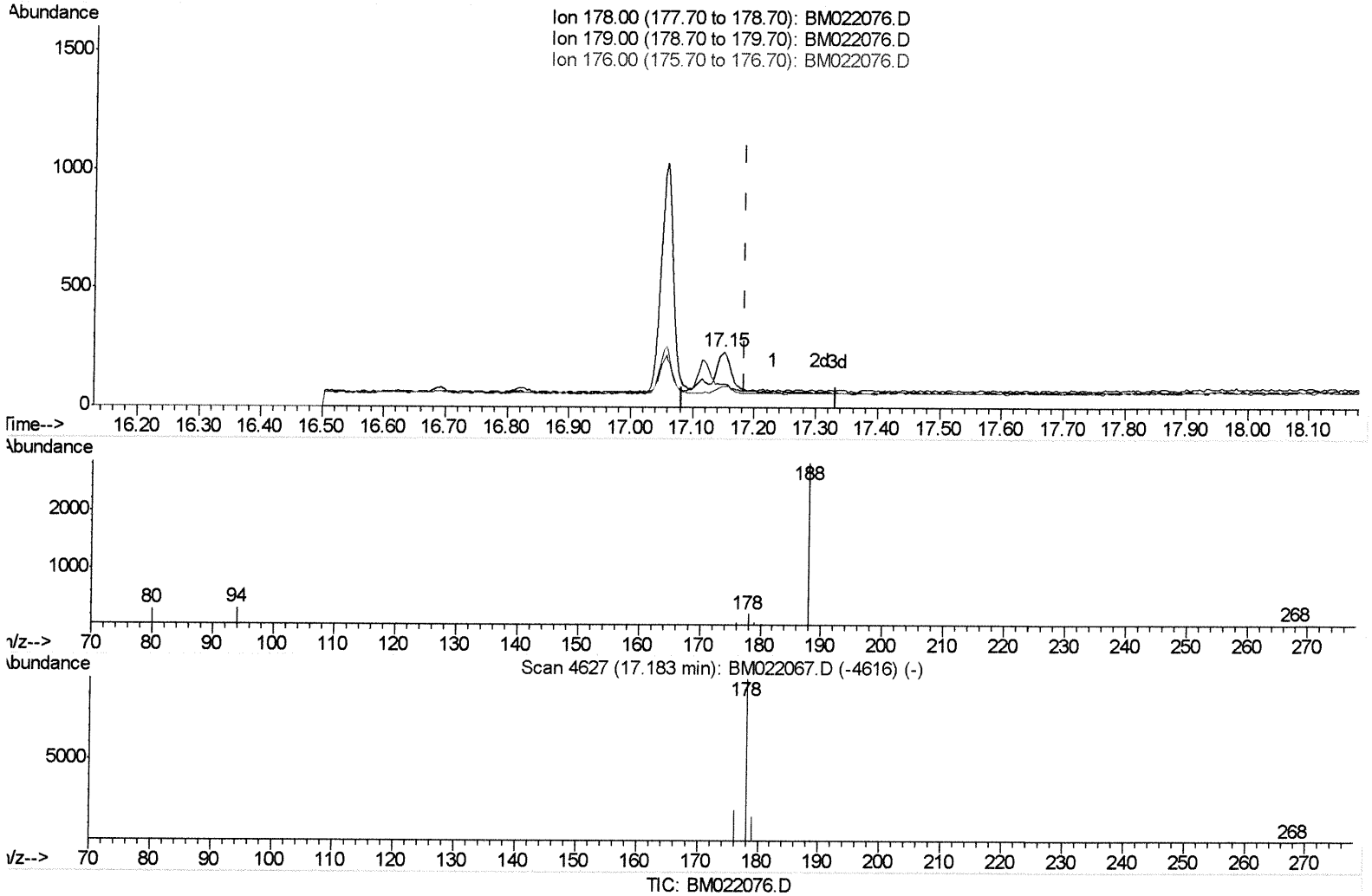
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:43:29 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(13) Anthracene

17.150min (-0.033) 0.04ng/ul m *JU* 08/14/19

response 315

Ion	Exp%	Act%
178.00	100	100
179.00	19.40	41.10#
176.00	20.80	37.29#
0.00	0.00	0.00

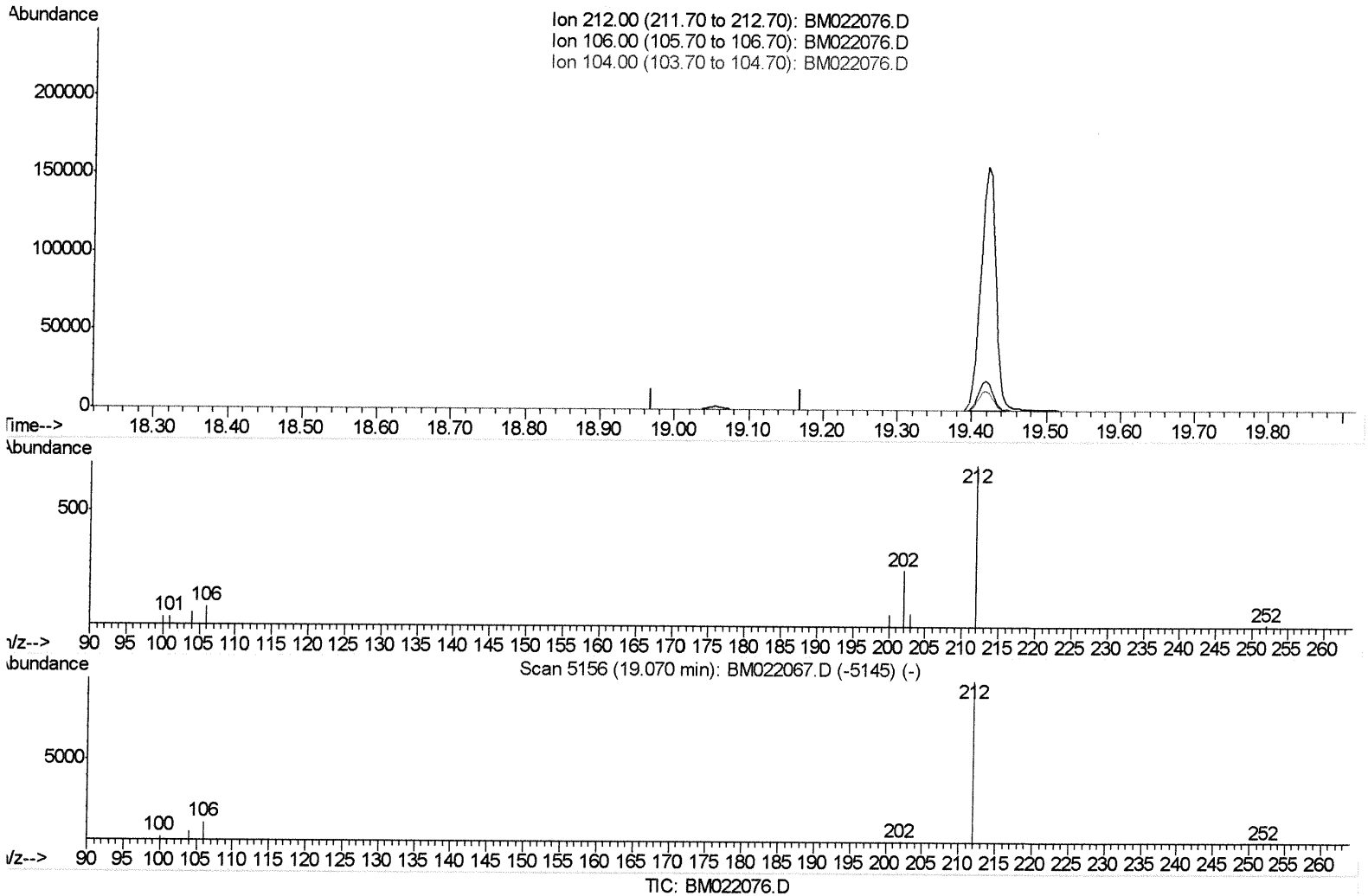
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:44:21 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.070min (-19.070) 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

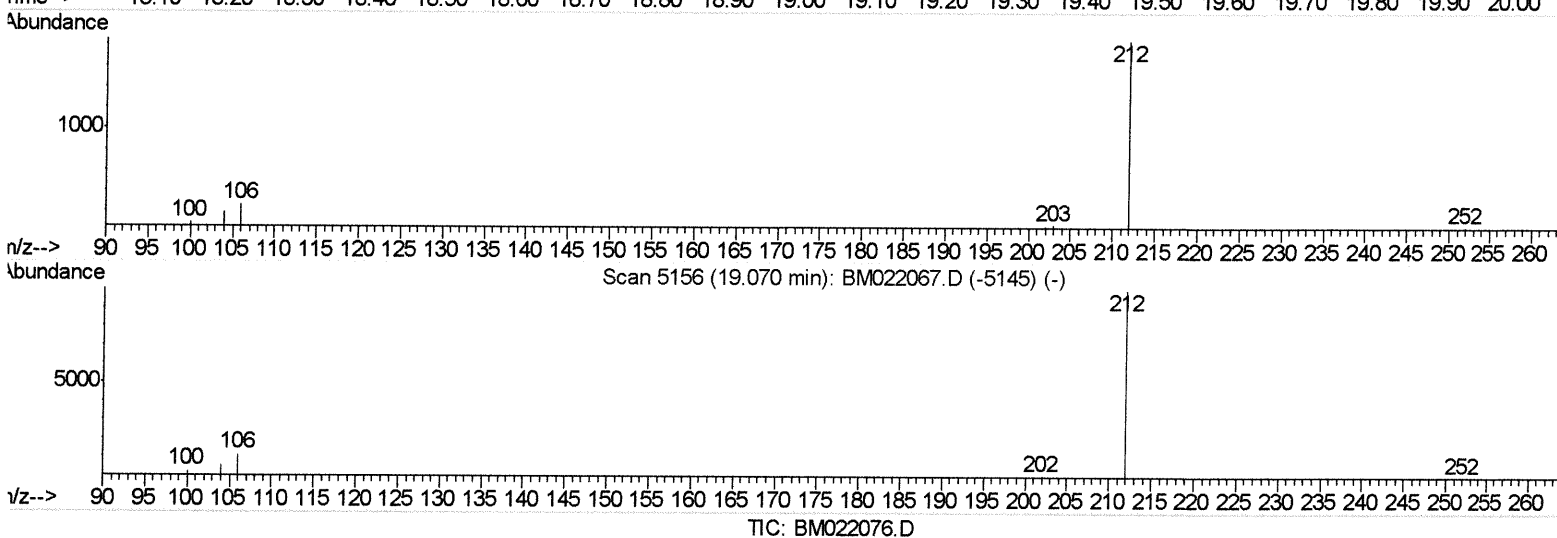
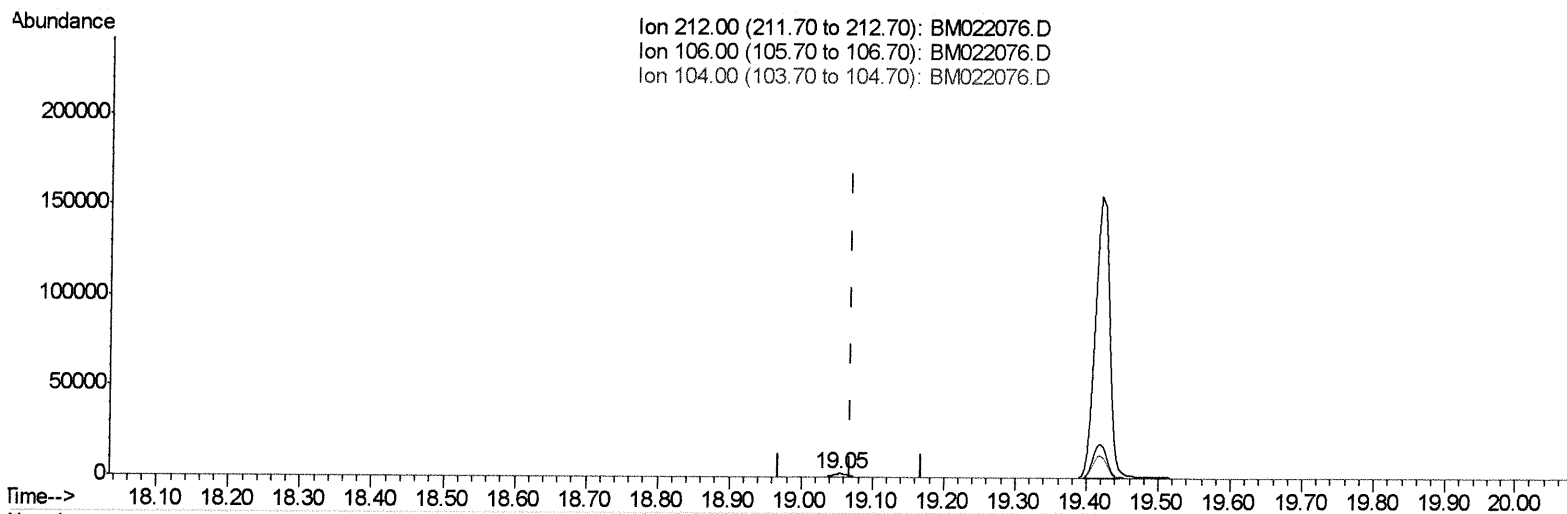
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:44:21 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.053min (-0.017) 0.23ng/ul m *Ju 08/14/19*

response 2687

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

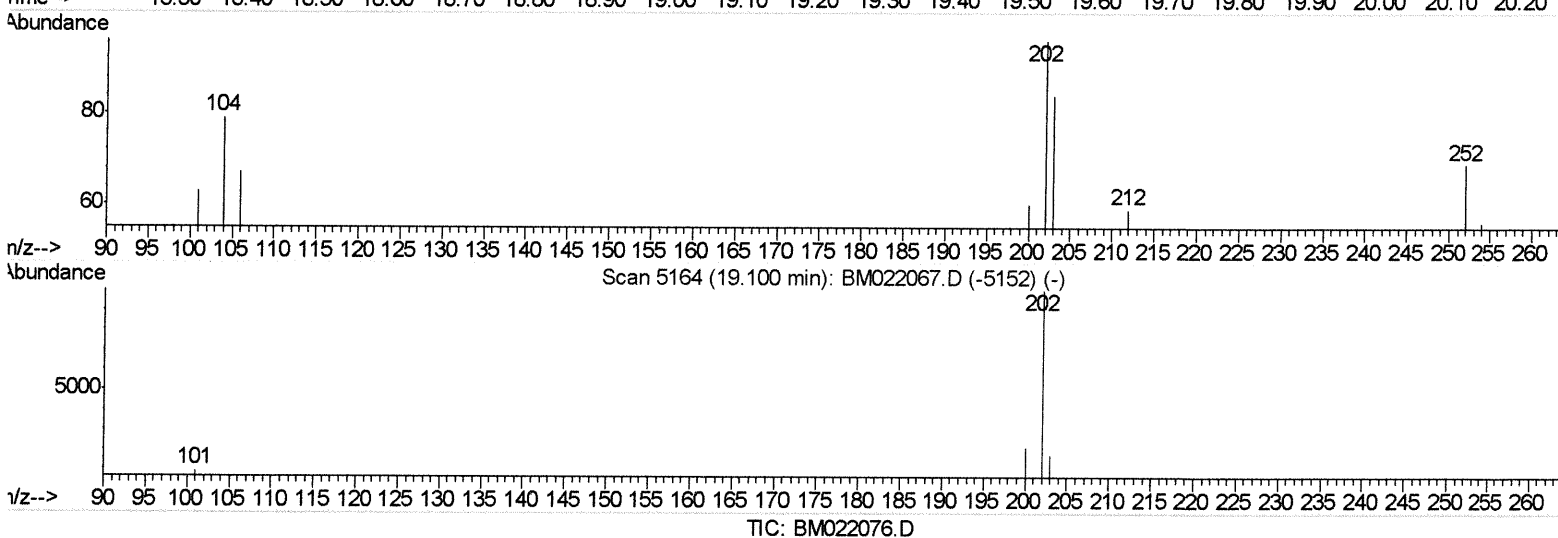
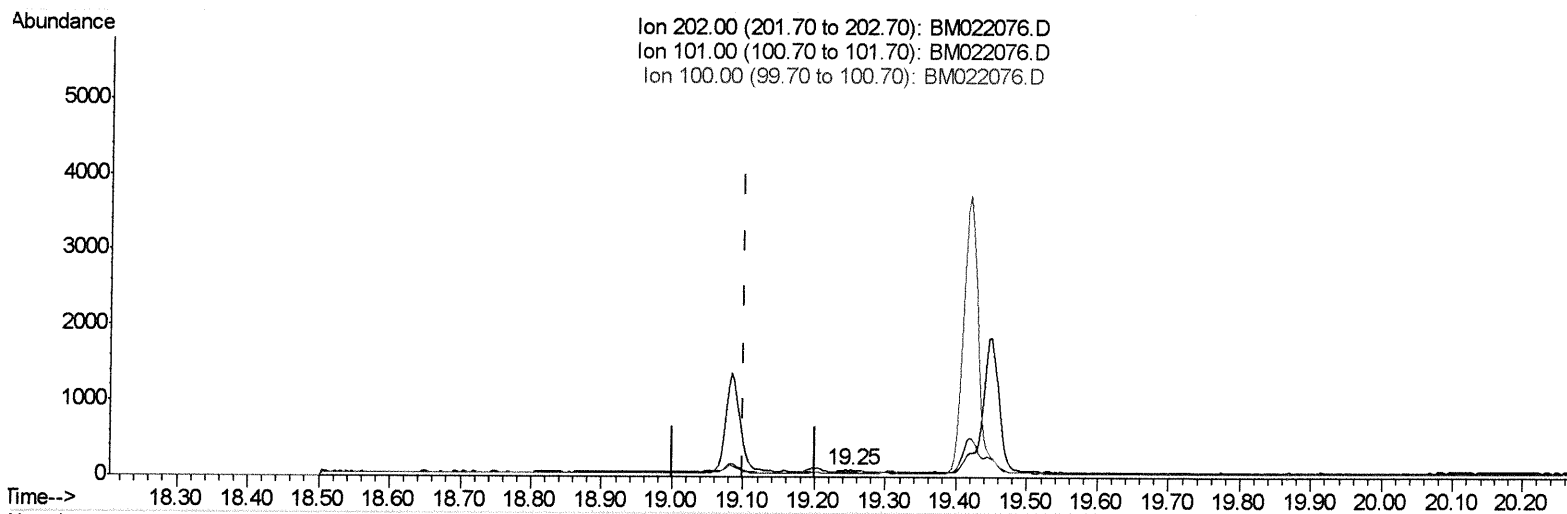
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:44:21 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(15) Fluoranthene (C)

19.251min (+0.151) 0.00ng/ul

response 55

Ion	Exp%	Act%
202.00	100	100
101.00	10.20	65.63#
100.00	8.10	57.29#
0.00	0.00	0.00

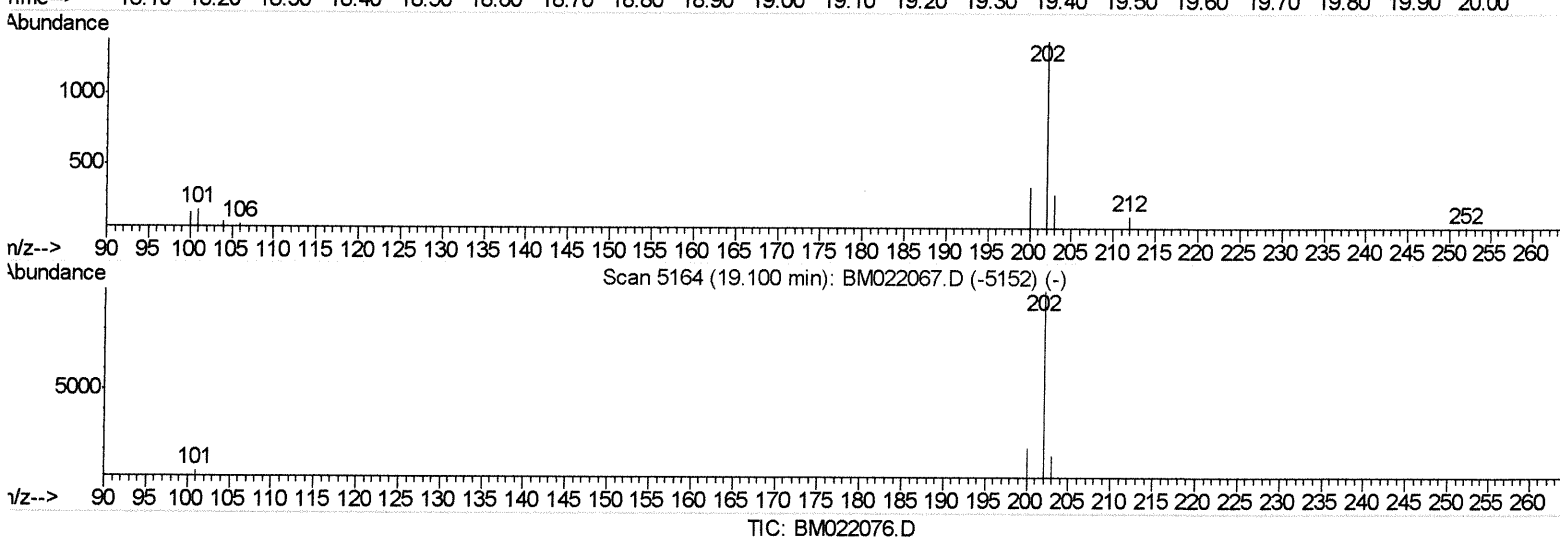
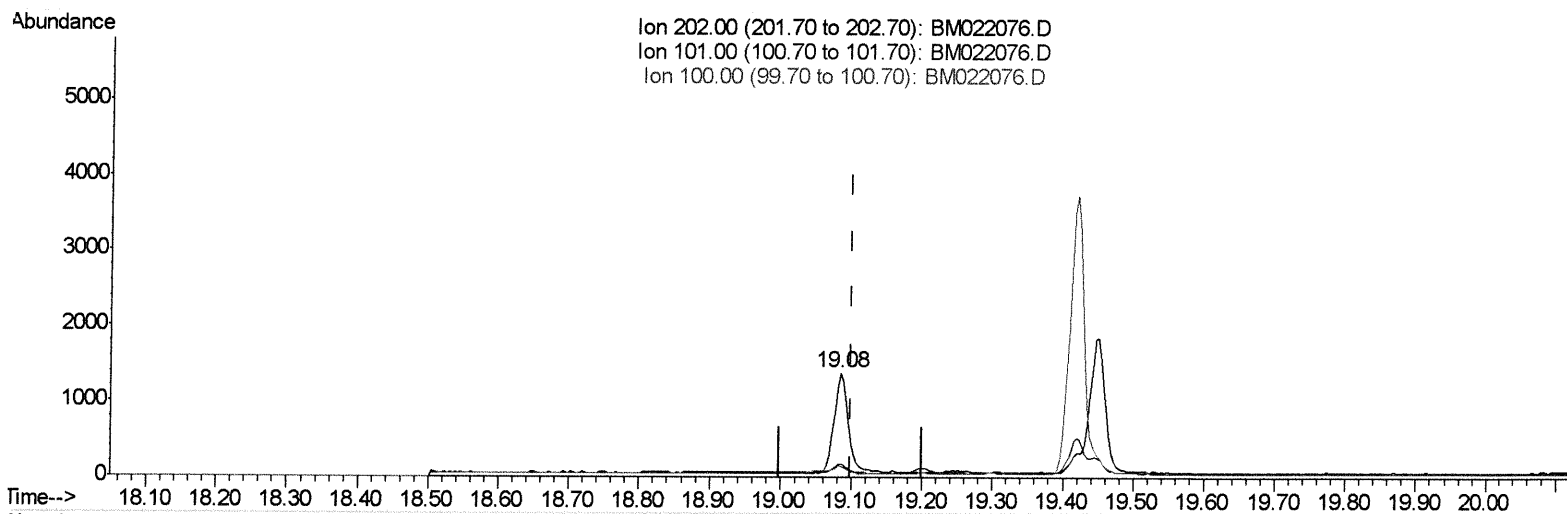
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:44:21 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(15) Fluoranthene (C)

19.083min (-0.017) 0.14ng/ul m 08/14/19

response 1907

Ion	Exp%	Act%
202.00	100	100
101.00	10.20	12.73
100.00	8.10	11.21
0.00	0.00	0.00

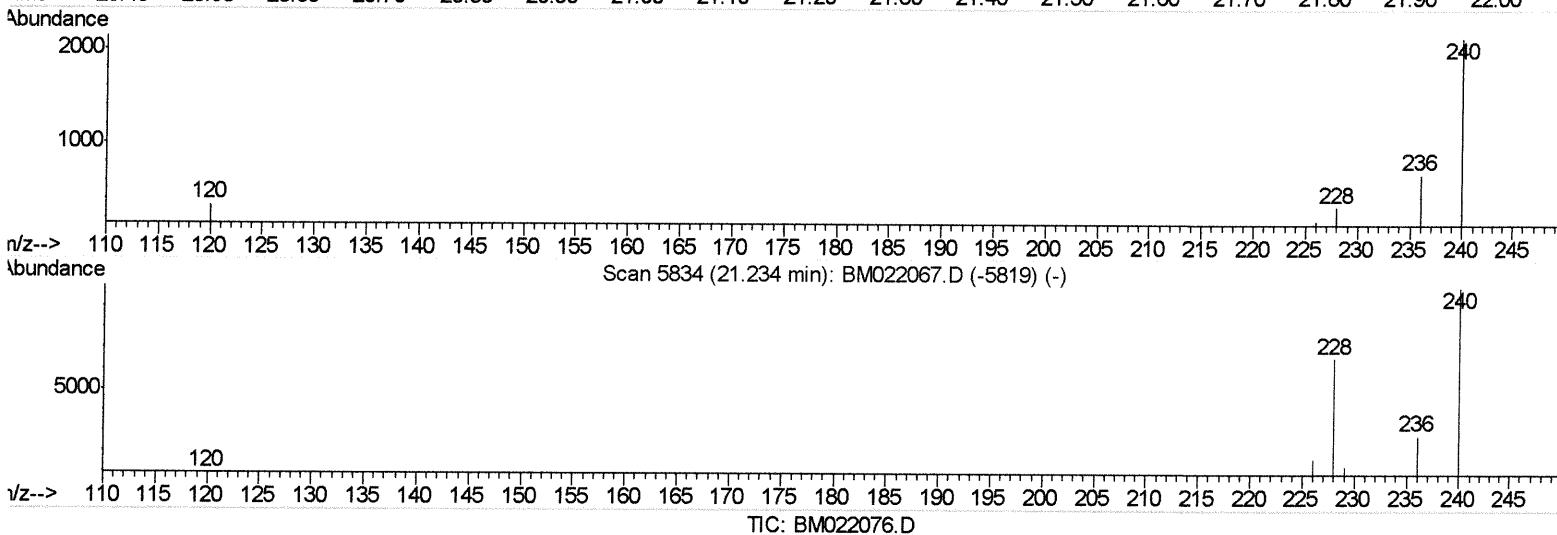
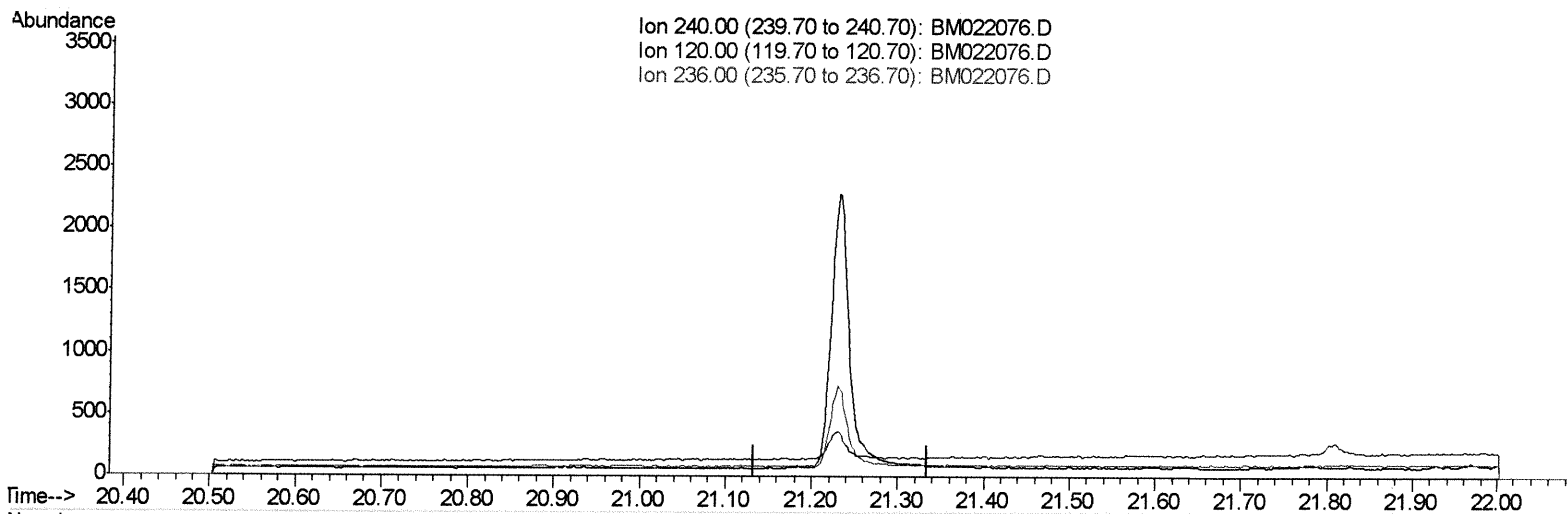
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:44:21 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.234min (-21.234) 0.00ng/ui

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

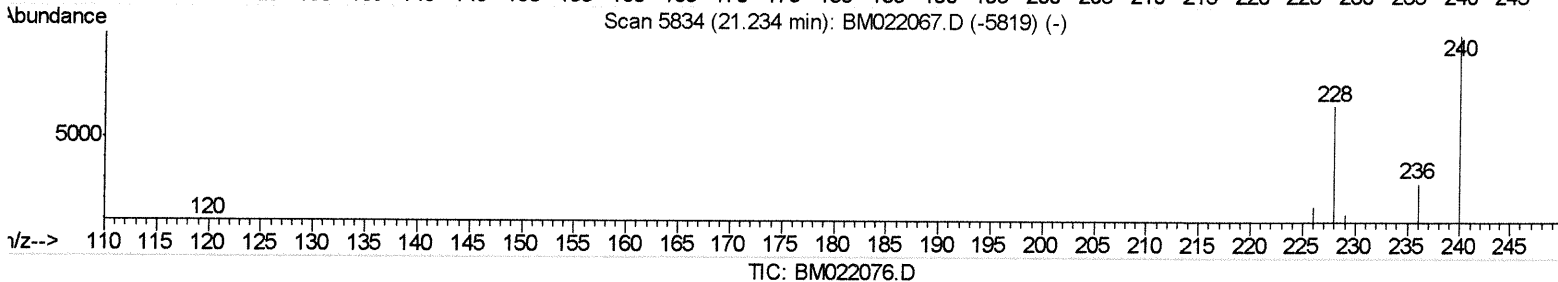
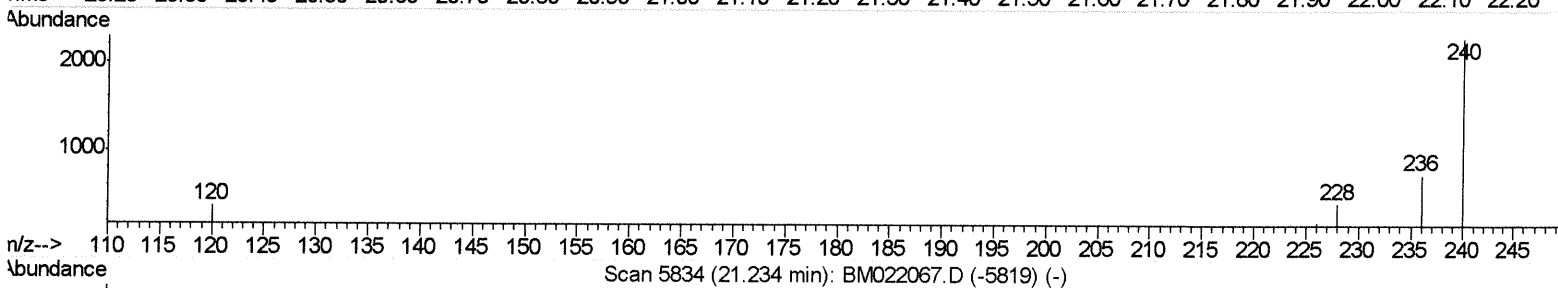
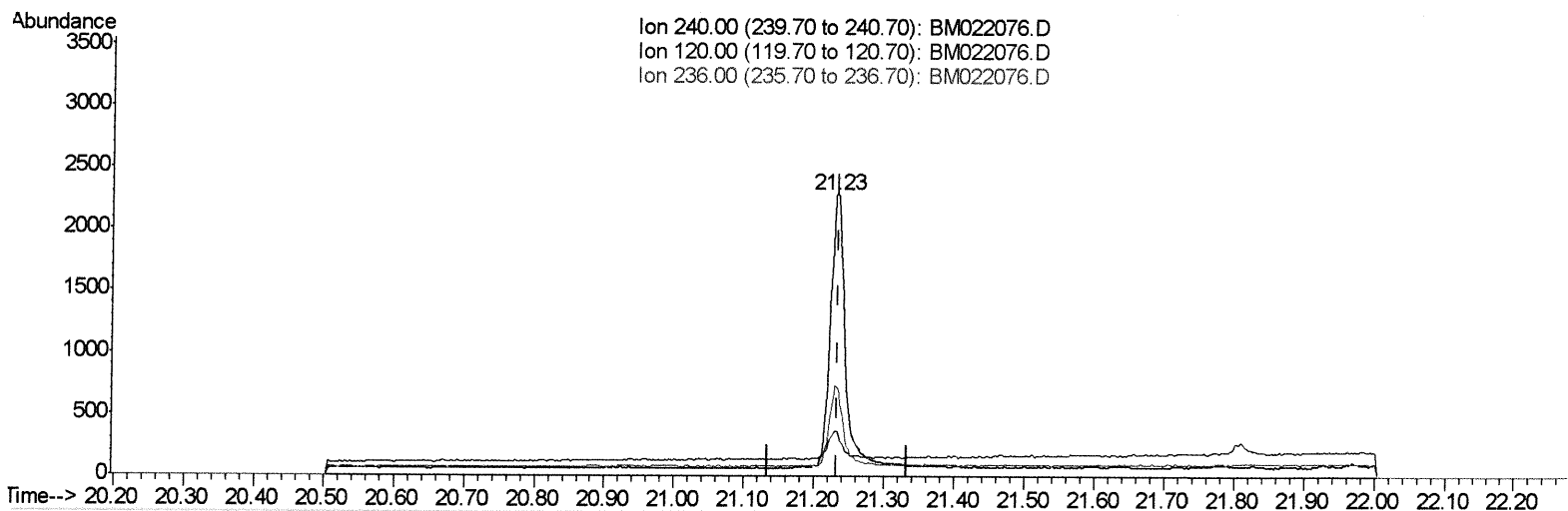
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:44:21 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.229min (-0.005) 0.40ng/ul m *JU 08/14/19*

response 3213

Ion	Exp%	Act%
240.00	100	100
120.00	16.20	15.90
236.00	32.30	32.28
0.00	0.00	0.00

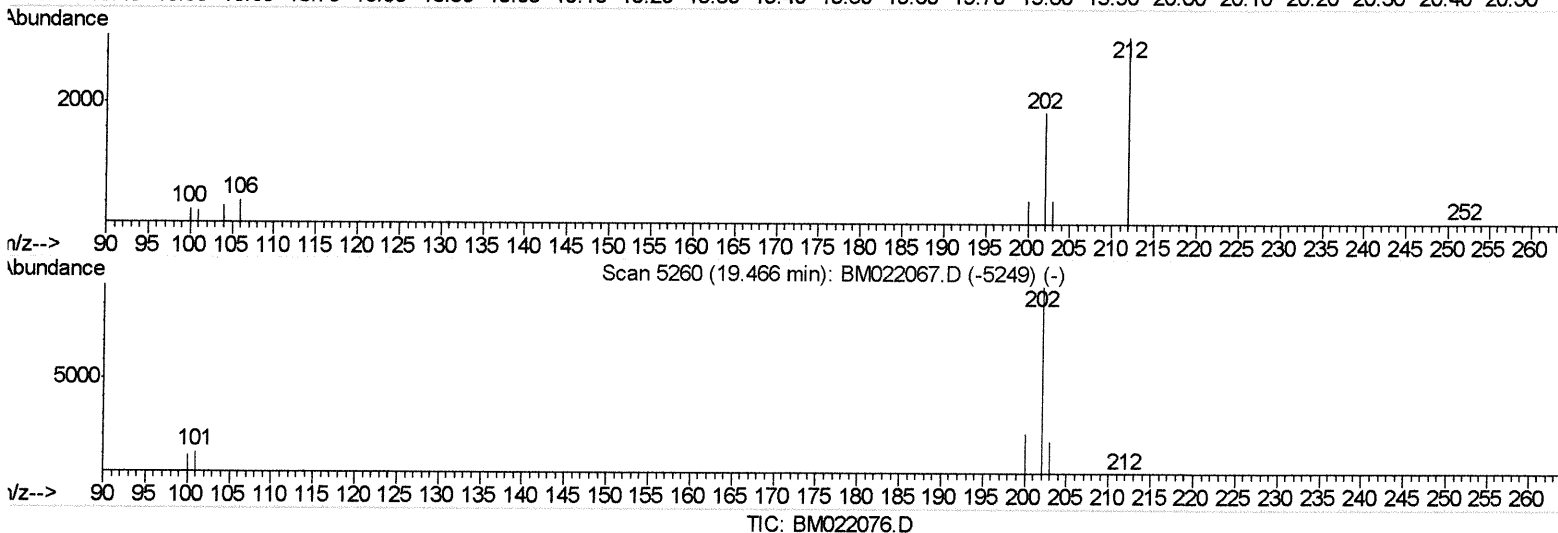
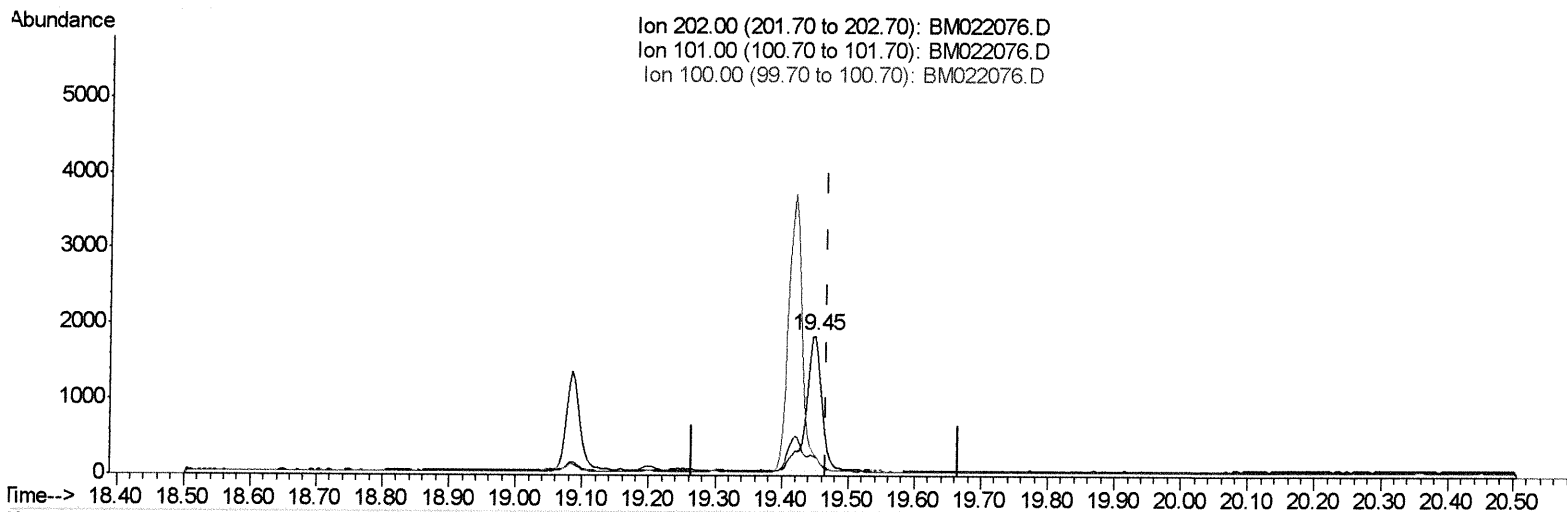
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:44:21 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(17) Pyrene

19.449min (-0.017) 0.23ng/ul

response 2994

Ion	Exp%	Act%
202.00	100	100
101.00	10.40	13.70#
100.00	9.00	14.46#
0.00	0.00	0.00

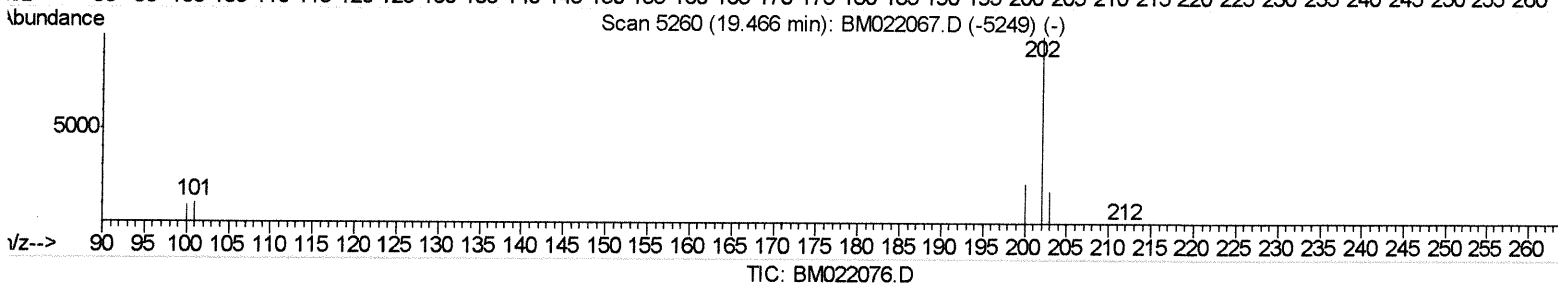
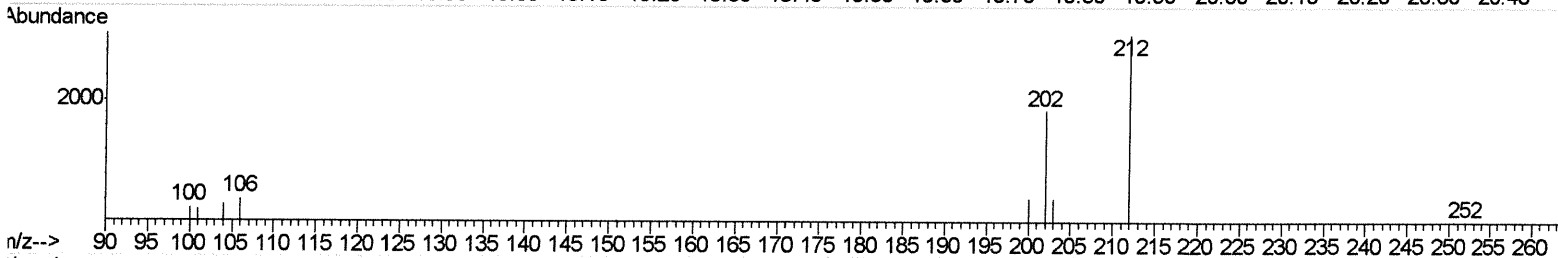
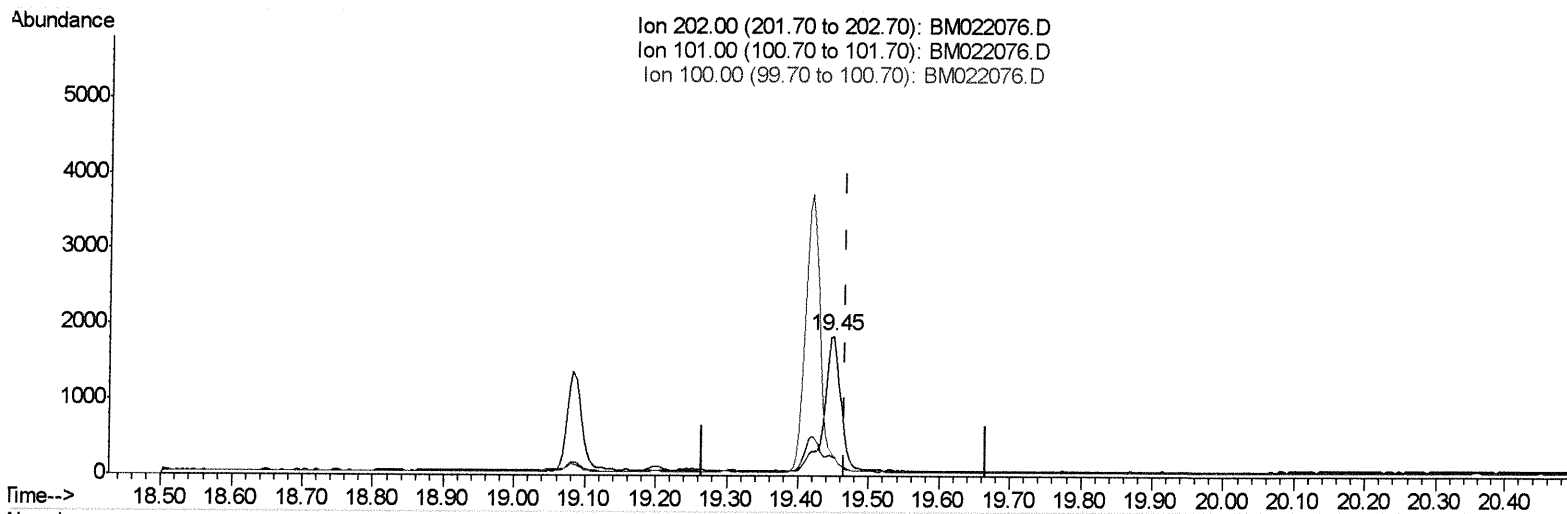
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:44:21 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(17) Pyrene

19.449min (-0.017) 0.20ng/ul m *JU* 8/14/19

response 2651

Ion	Exp%	Act%
202.00	100	100
101.00	10.40	13.70#
100.00	9.00	14.46#
0.00	0.00	0.00

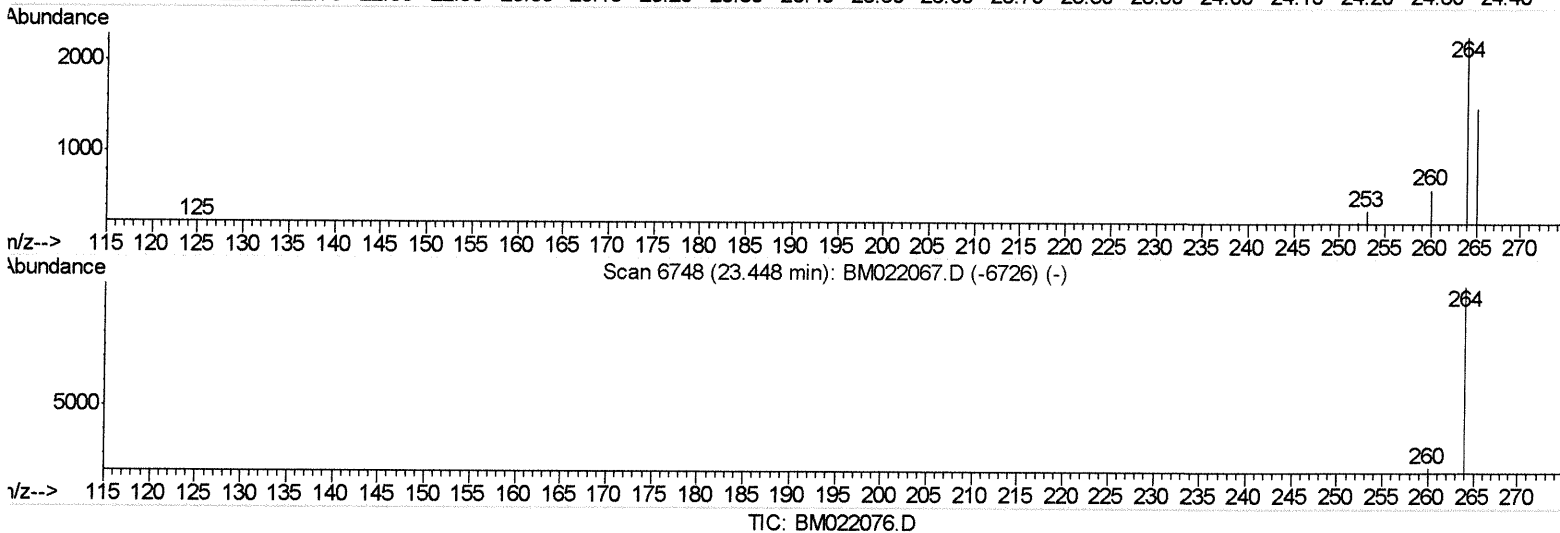
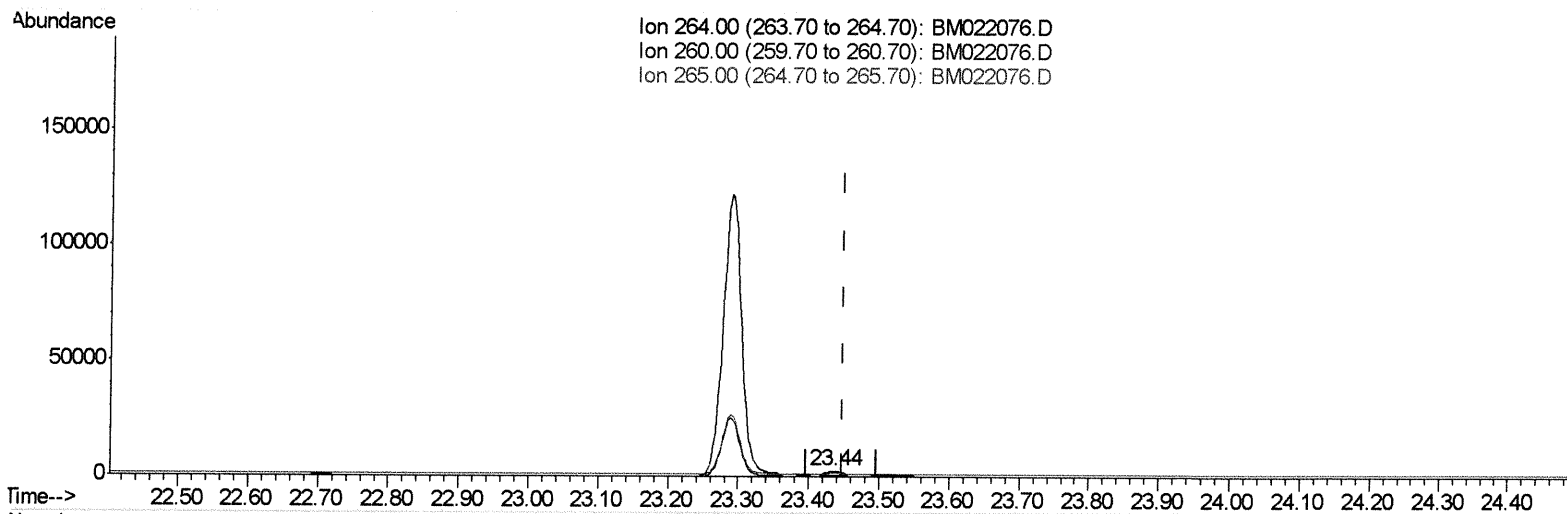
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:46:23 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(20) Perylene-d12 (I)

23.435min (-0.012) 0.40ng/ul

response 3953

Ion	Exp%	Act%
264.00	100	100
260.00	27.50	26.54
265.00	117.00	65.82#
0.00	0.00	0.00

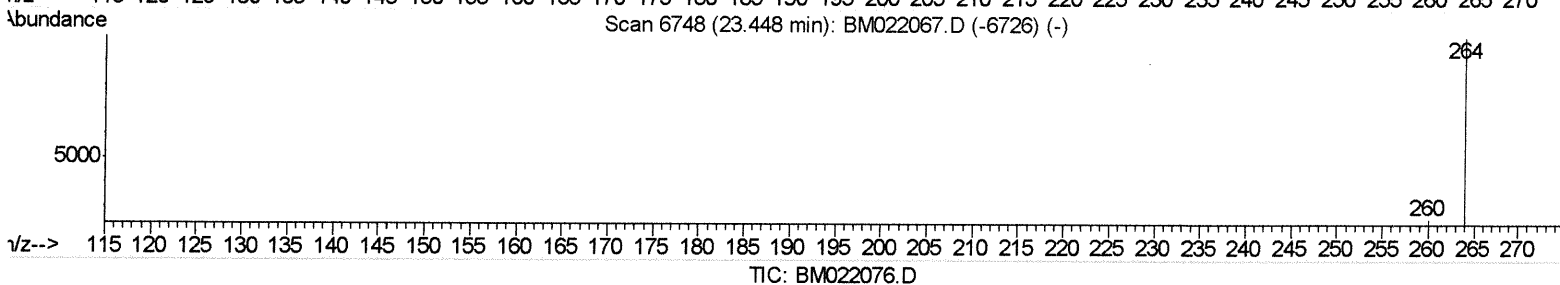
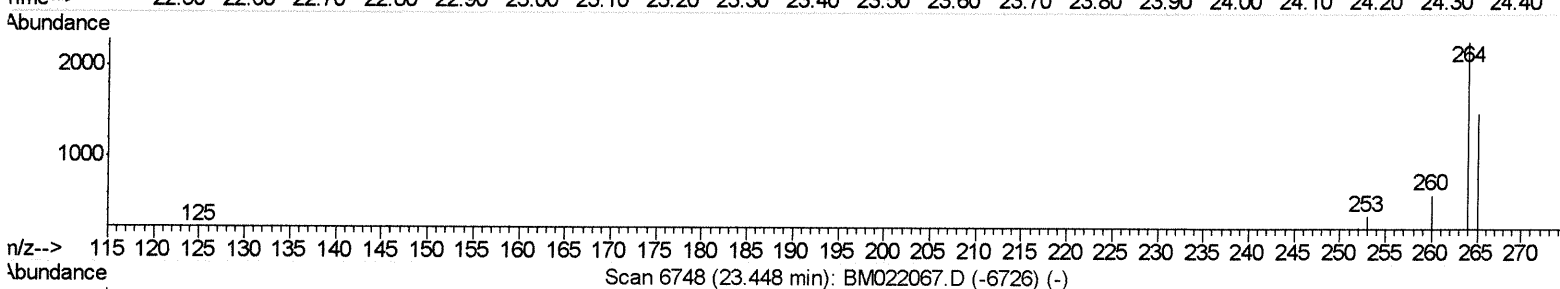
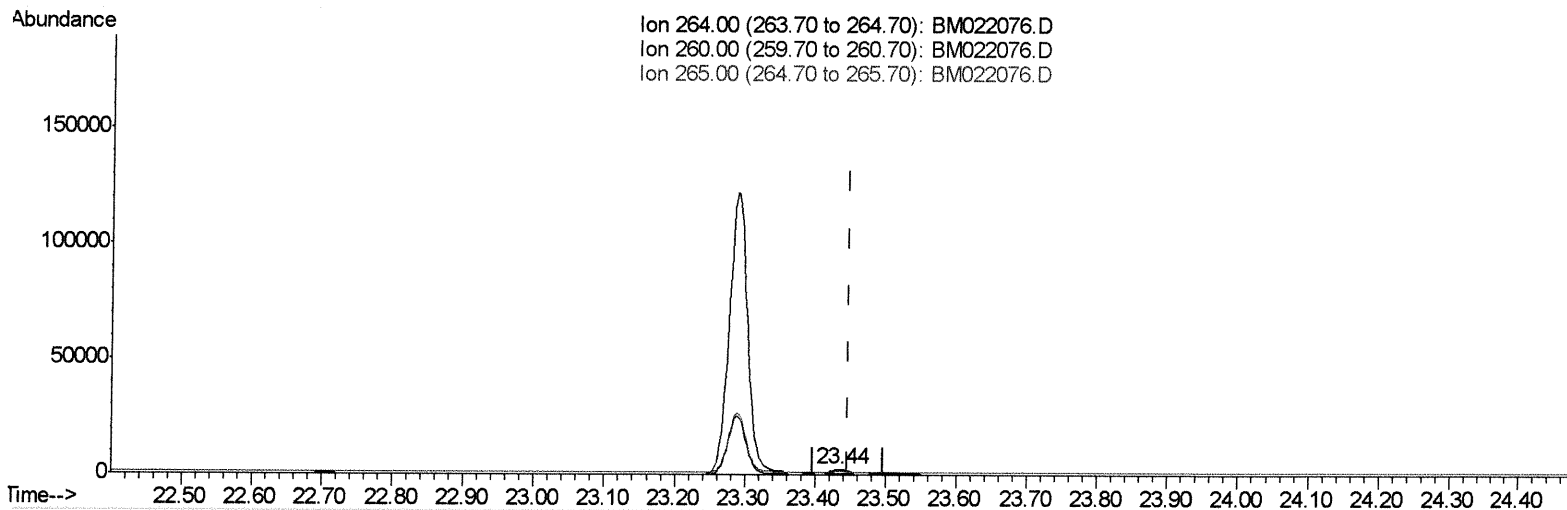
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:46:23 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(20) Perylene-d12 (I)

23.435min (-0.012) 0.40ng/ul m *JU* 08/14/19

response 3392

Ion	Exp%	Act%
264.00	100	100
260.00	27.50	26.54
265.00	117.00	65.82#
0.00	0.00	0.00

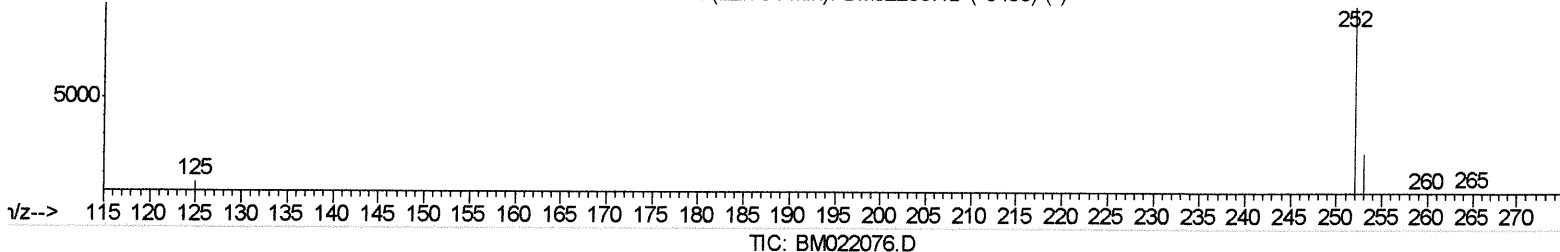
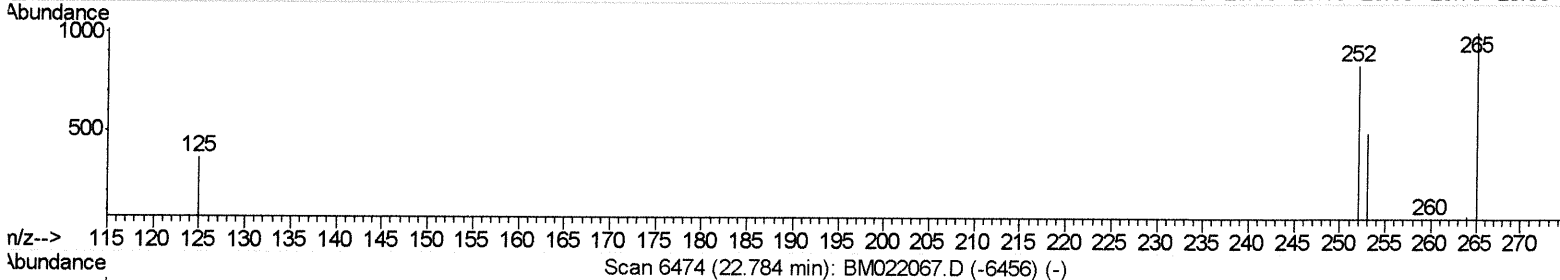
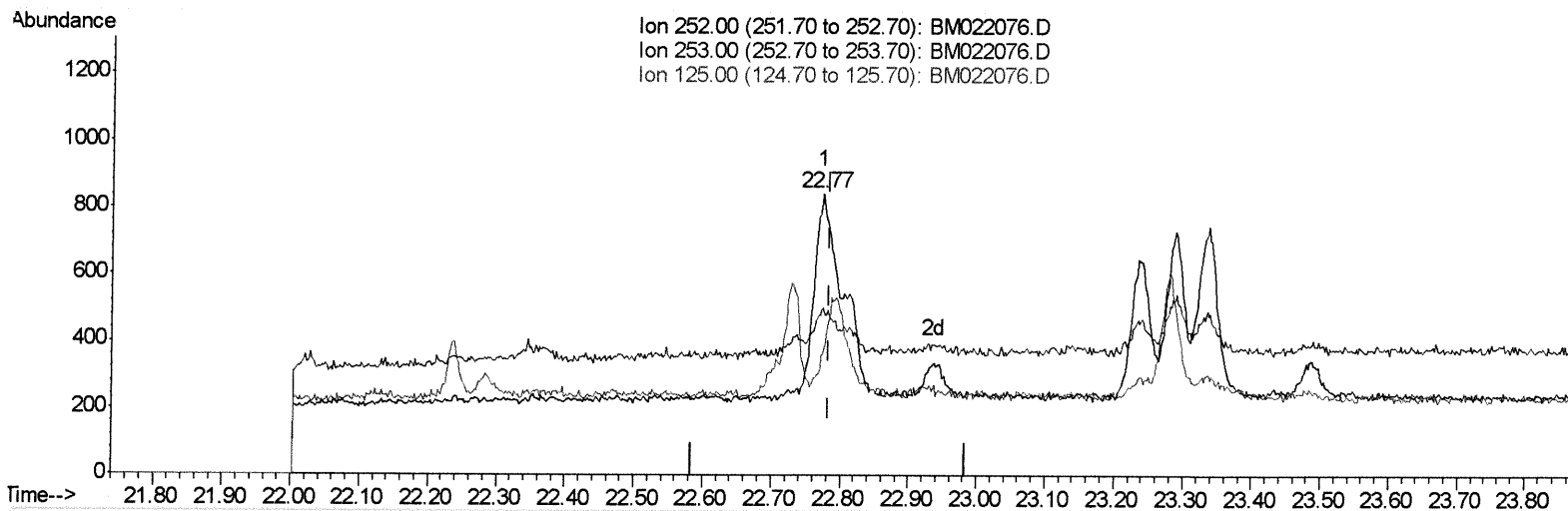
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:46:53 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.774min (-0.010) 0.15ng/ul

response 1766

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	59.38
125.00	15.50	43.35#
0.00	0.00	0.00

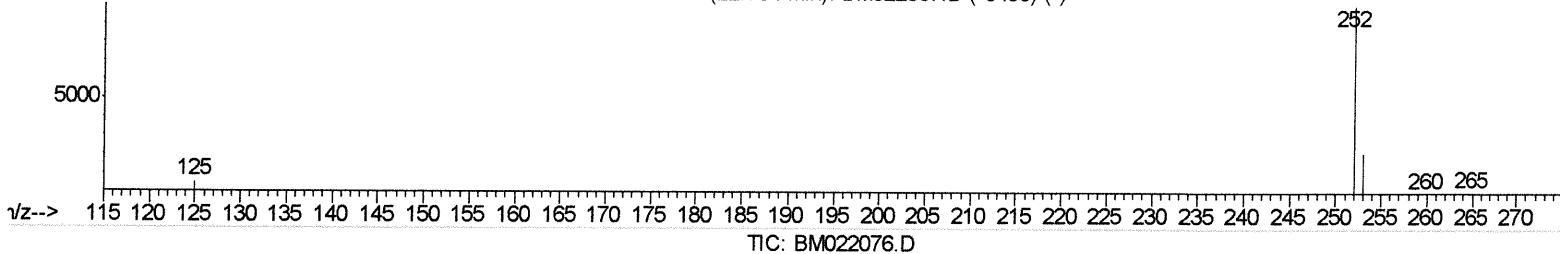
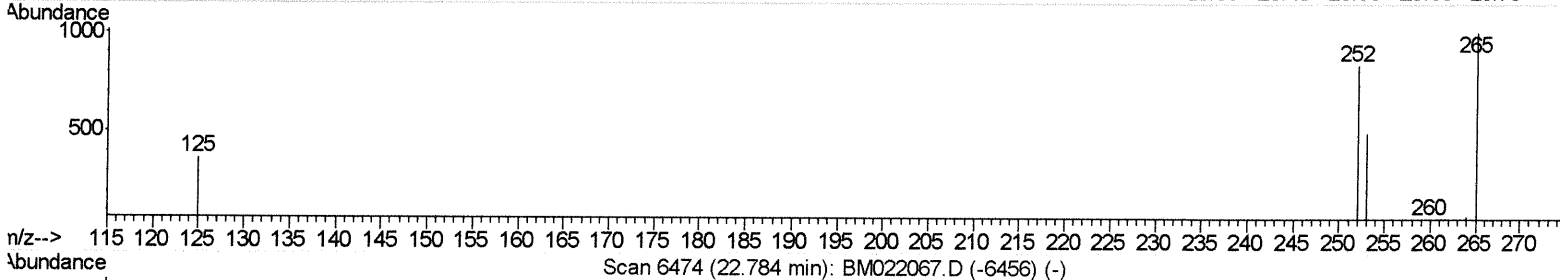
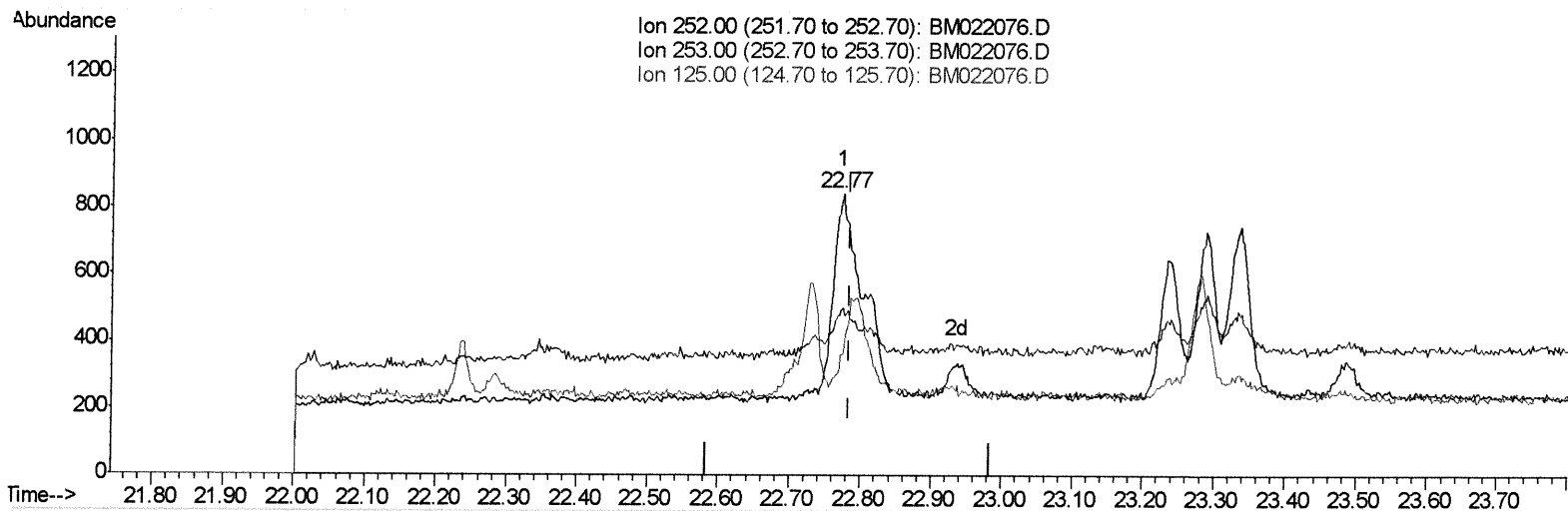
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampled :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:46:53 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.774min (-0.010) 0.11ng/ul m *JU* *08/14/19*

response 1305

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	59.38
125.00	15.50	43.35#
0.00	0.00	0.00

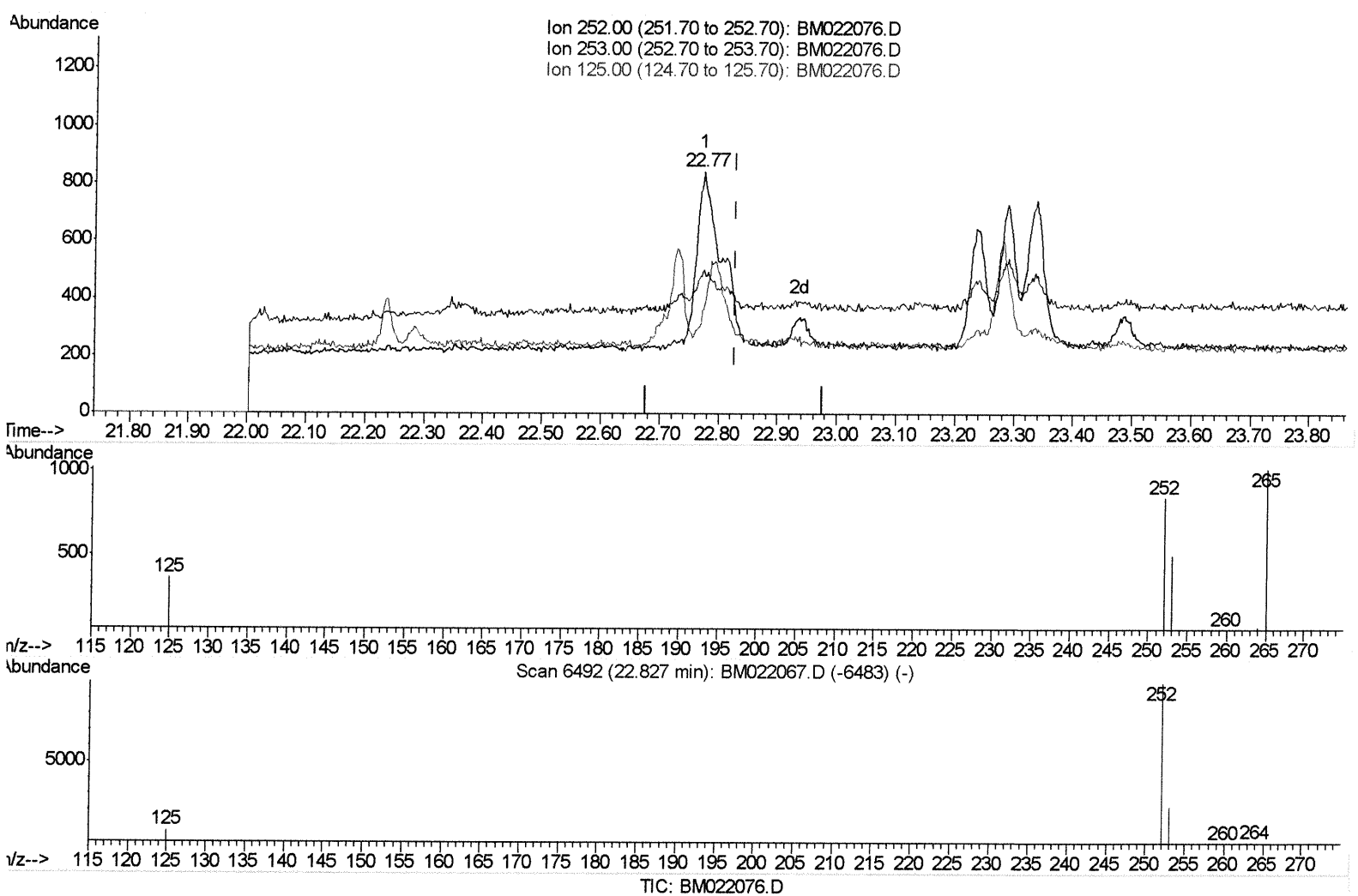
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:46:53 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.774min (-0.054) 0.14ng/ul

response 1766

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	59.38#
125.00	15.20	43.35#
0.00	0.00	0.00

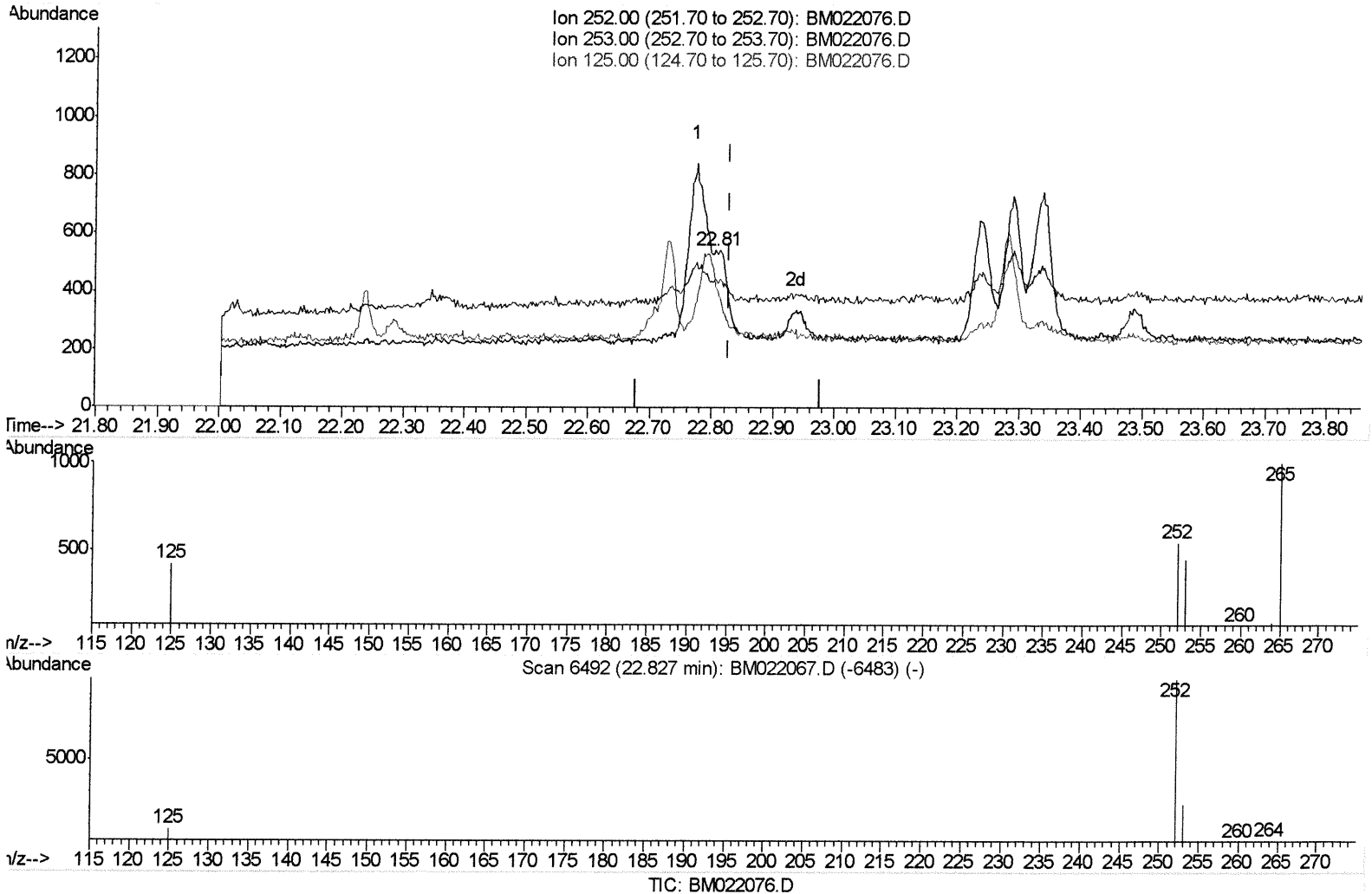
Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:46:53 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.805min (-0.022) 0.04ng/ul m

JU
08/14/19

response 532

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	81.95#
125.00	15.20	76.80#
0.00	0.00	0.00

Data File : BM022076.D
Acq On : 13 Aug 2019 18:48
Operator : HP/JU
Sample : K4183-10
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AE8

Manual Integrations
APPROVED

mohammad
8/15/2019 5:07:37 PM

Quant Time: Aug 14 07:47:53 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 : Wed Aug 14 07:18:38 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	668	0.40	ng/ul	0.00
2) Naphthalene-d8	10.39	136	2790	0.40	ng/ul	-0.02
6) Acenaphthene-d10	14.26	164	1486	0.40	ng/ul	-0.01
10) Phenanthrene-d10	17.01	188	3515m→	0.40	ng/ul	-0.03
16) Chrysene-d12	21.23	240	3213m→	0.40	ng/ul	0.00
20) Perylene-d12	23.44	264	3392m→	0.40	ng/ul	-0.01
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.00	152	1014	0.22	ng/ul	-0.02
14) Fluoranthene-d10	19.05	212	2687m→	0.23	ng/ul	-0.02
Target Compounds						
					Qvalue	
12) Phenanthrene	17.06	178	1391m→	0.136	ng/ul	85
13) Anthracene	17.15	178	315m→	0.036	ng/ul	85
15) Fluoranthene	19.08	202	1907m→	0.139	ng/ul	57
17) Pyrene	19.45	202	2651m→	0.201	ng/ul	72
18) Benzo(a)anthracene	21.22	228	1201	0.105	ng/ul#	50
19) Chrysene	21.27	228	1105	0.075	ng/ul#	
21) Benzo(b)fluoranthene	22.77	252	1305m→	0.114	ng/ul	
22) Benzo(k)fluoranthene	22.81	252	532m→	0.041	ng/ul	
23) Benzo(a)pyrene	23.34	252	989	0.085	ng/ul#	
24) Indeno(1,2,3-cd)pyrene	25.66	276	616	0.044	ng/ul#	
26) Benzo(g,h,i)perylene	26.34	276	690	0.055	ng/ul#	

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