

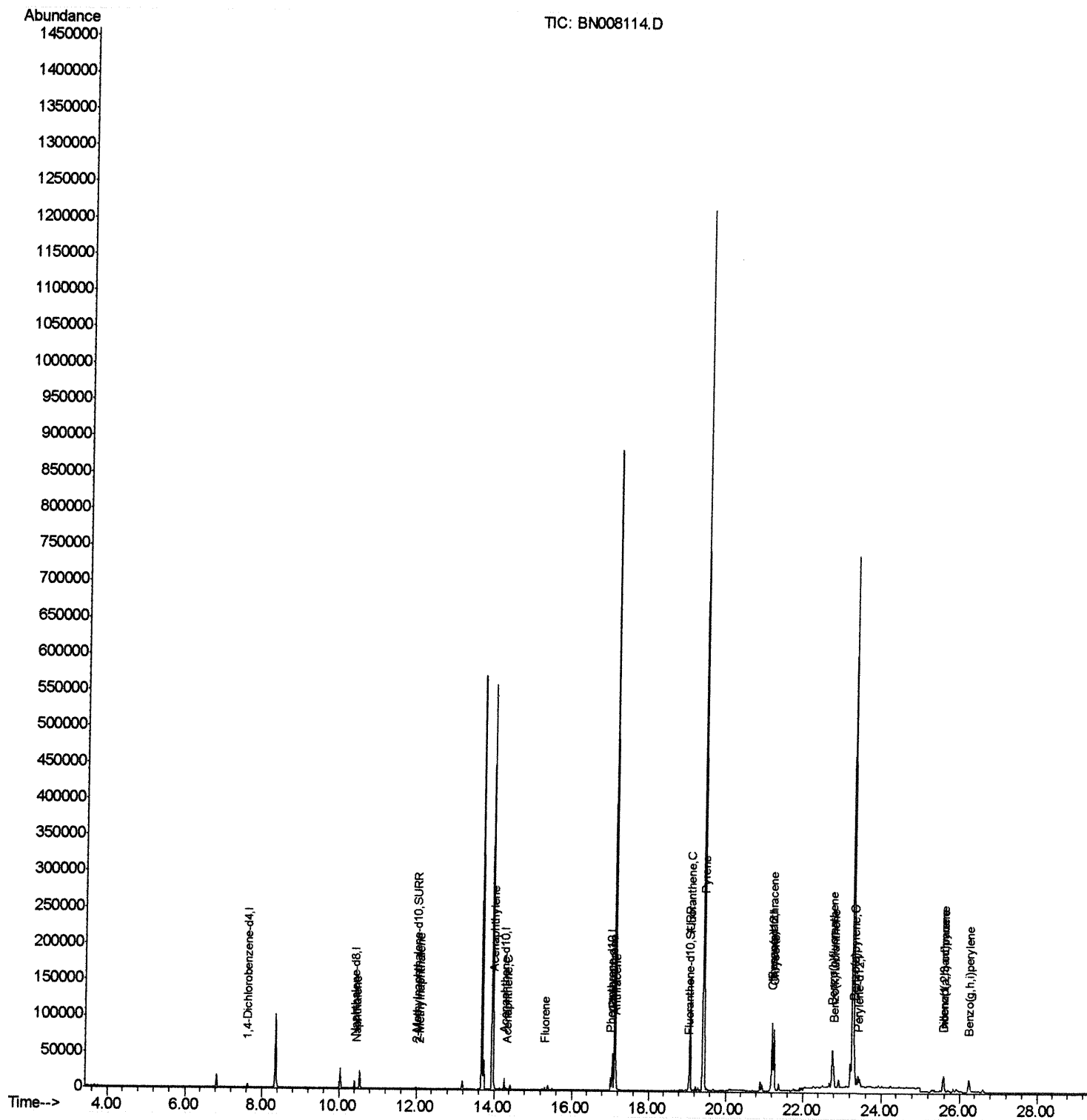
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:46:54 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



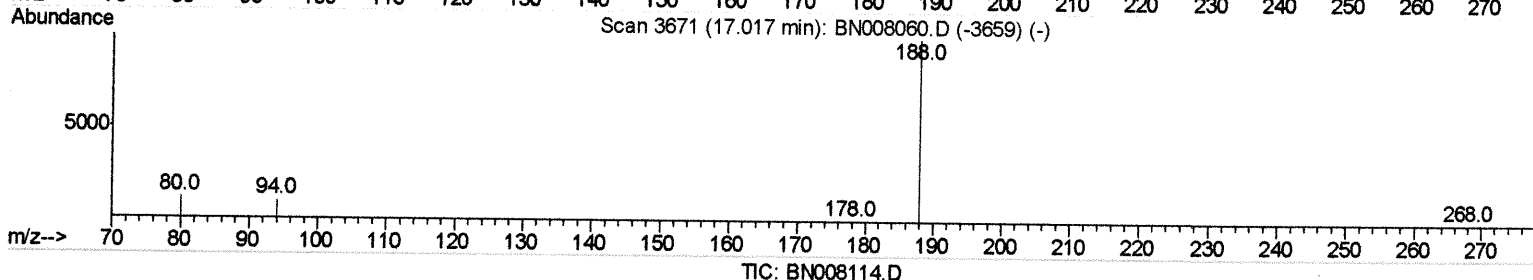
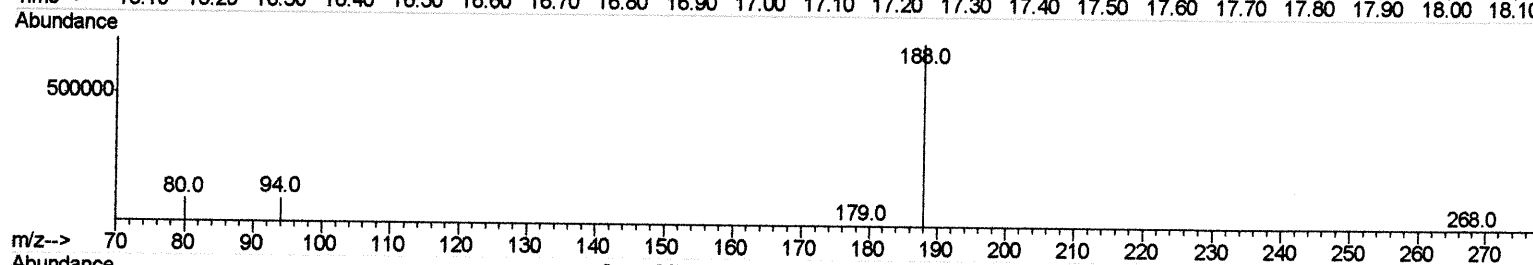
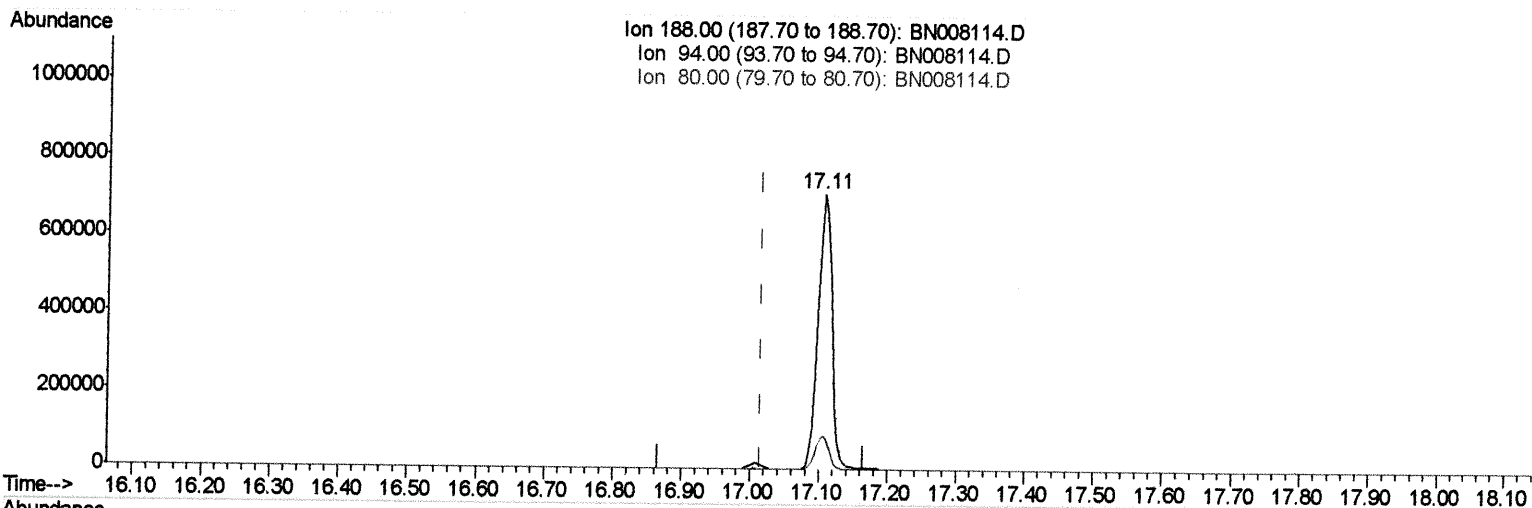
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 12 21:40:56 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.106min (+0.089) 0.40ng/ul

response 984452

Ion	Exp%	Act%
188.00	100	100
94.00	10.90	12.43
80.00	12.60	12.10
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008114.D

Acq On : 12 Oct 2019 15:57

Operator : JU

Sample : K5178-05

Misc :

ALS Vial : 47 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE8

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:44 AM

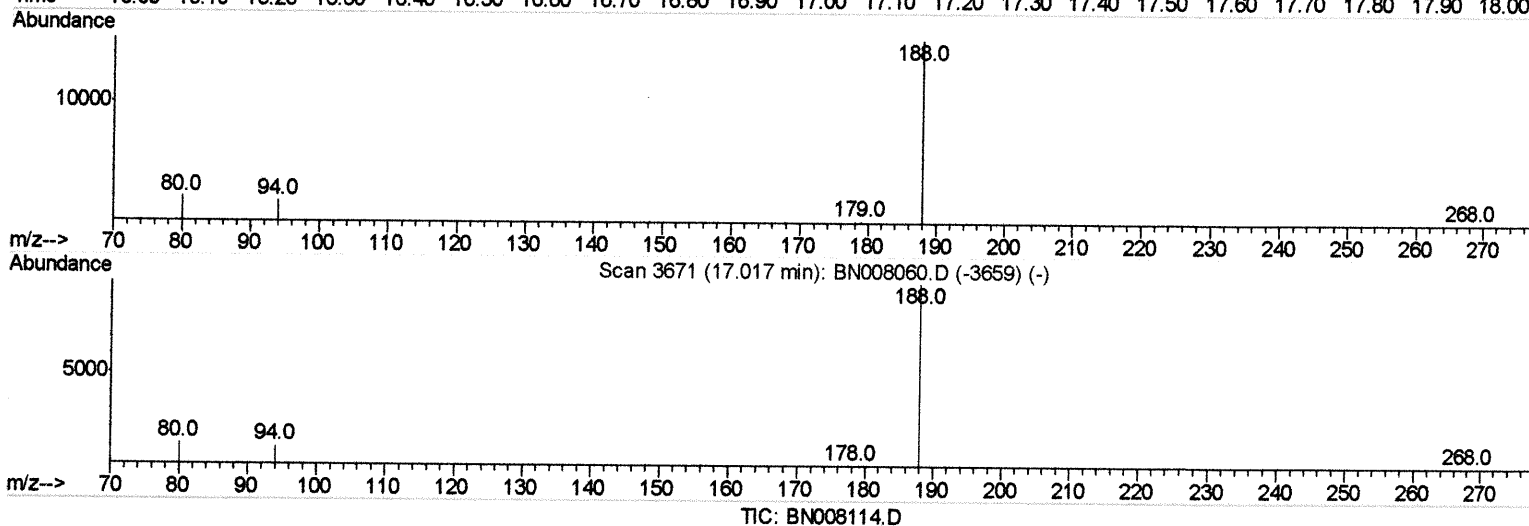
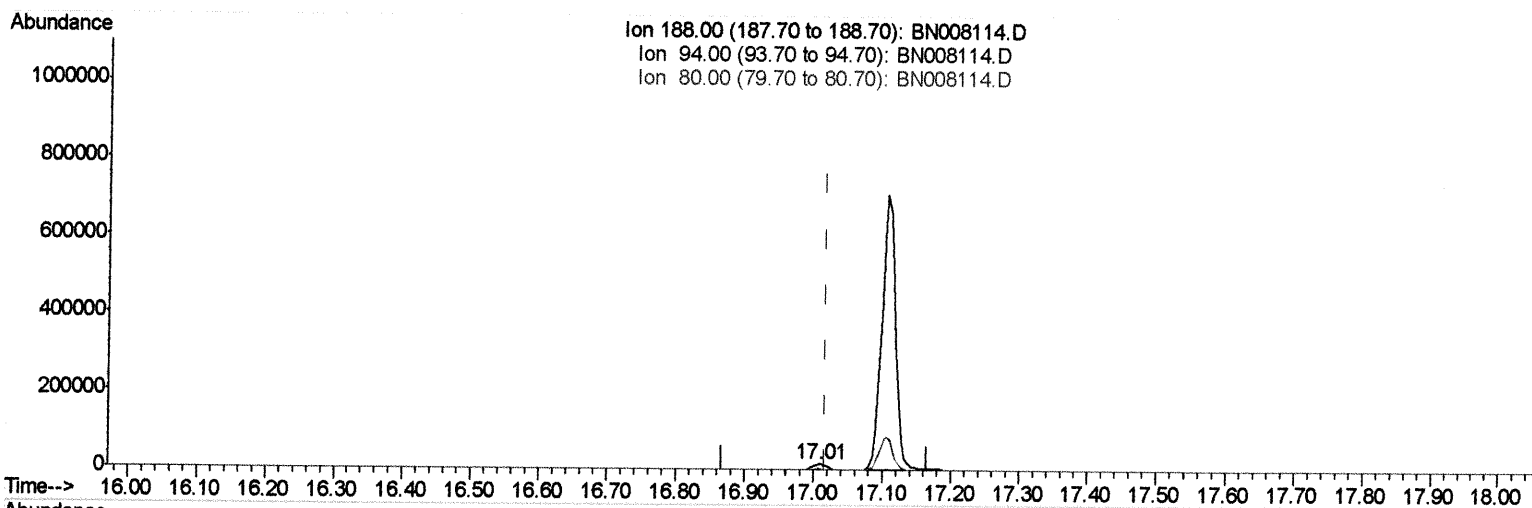
Quant Time: Oct 12 21:40:56 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.009min (-0.008) 0.40ng/ul m *JU 10/16/19*

response 20725

Ion	Exp%	Act%
188.00	100	100
94.00	10.90	11.17
80.00	12.60	13.00
0.00	0.00	0.00

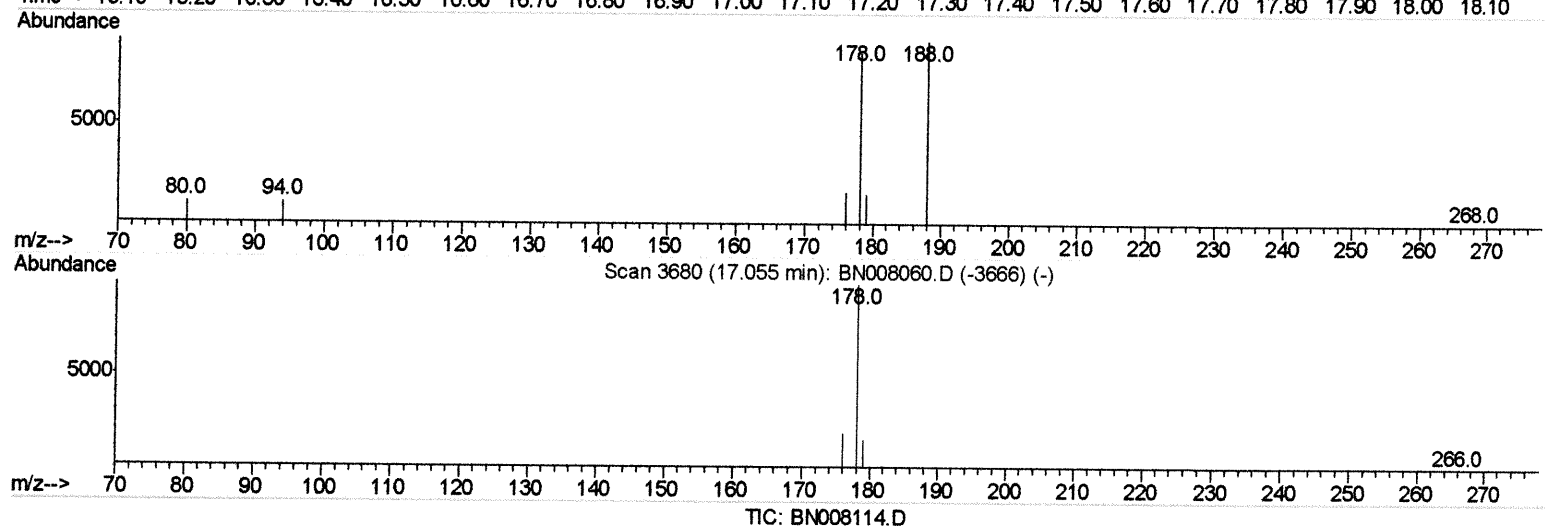
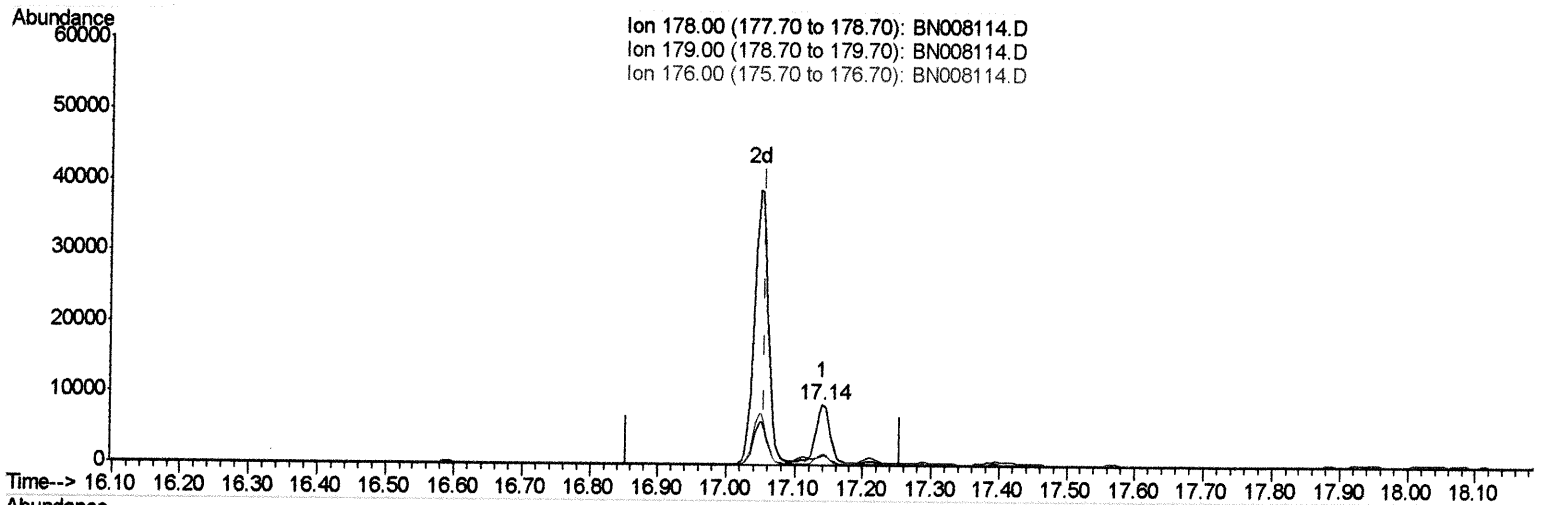
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:43:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(12) Phenanthrene

17.140min (+0.085) 0.20ng/ul

response 12116

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	17.28
176.00	19.30	18.77
0.00	0.00	0.00

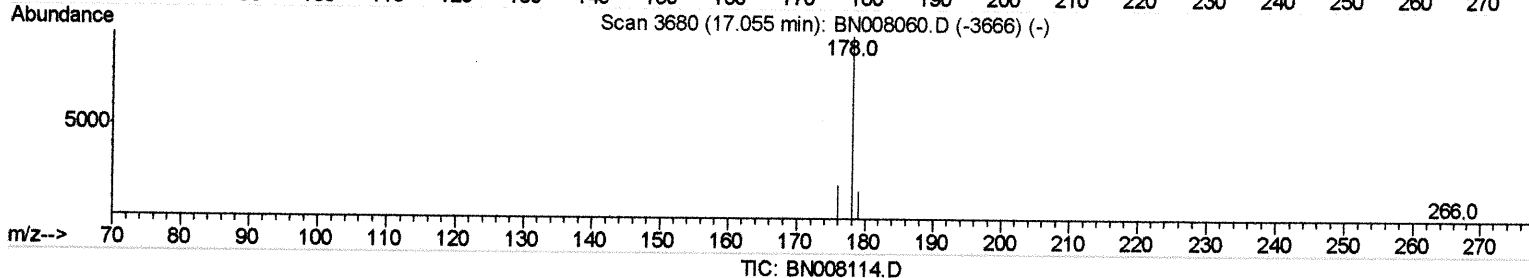
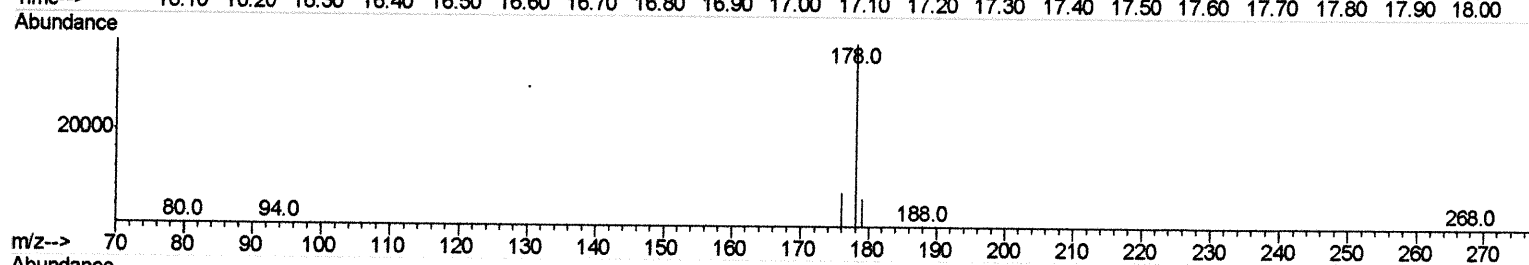
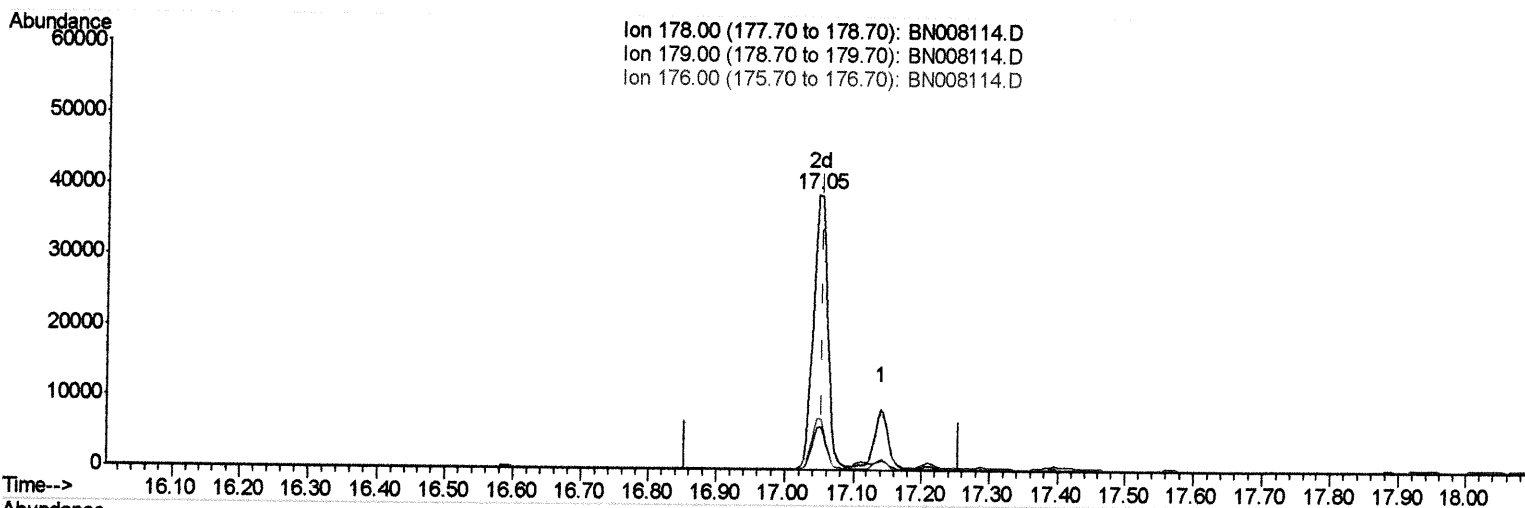
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:43:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(12) Phenanthrene

17.047min (-0.008) 0.92ng/ul m *su 10/16/19*

response 55949

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	15.37
176.00	19.30	18.83
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008114.D

Acq On : 12 Oct 2019 15:57

Operator : JU

Sample : K5178-05

Misc :

ALS Vial : 47 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE8

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:44 AM

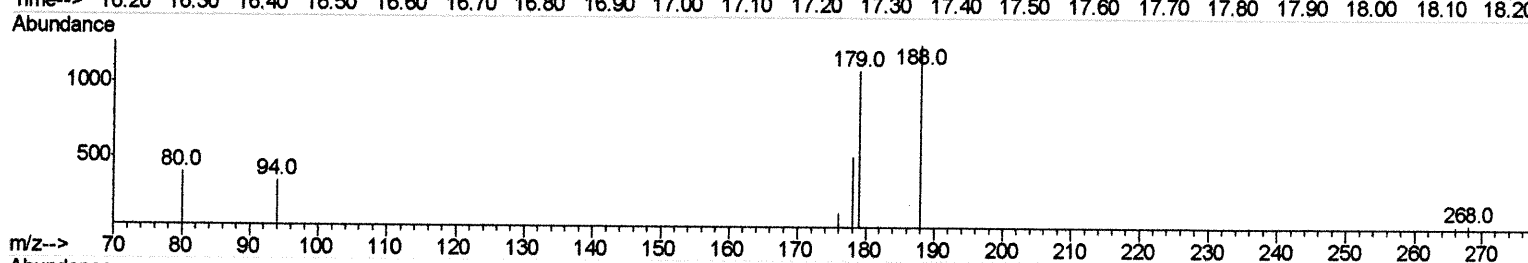
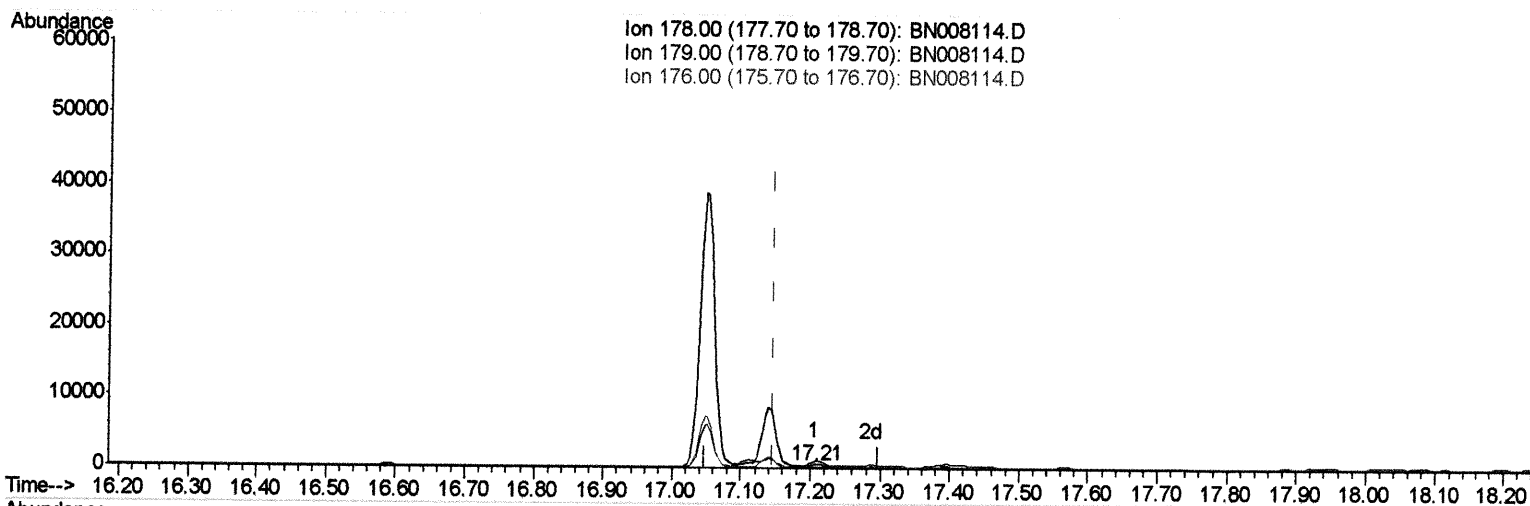
Quant Time: Oct 13 03:43:29 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M

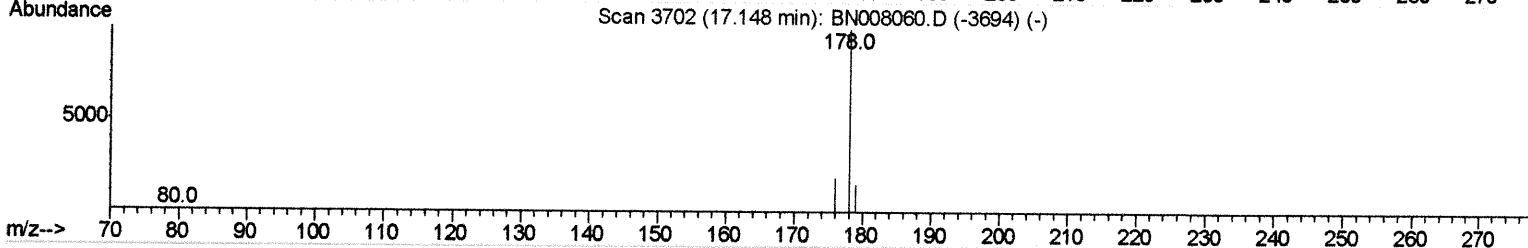
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



Scan 3702 (17.148 min): BN008060.D (-3694) (-)



TIC: BN008114.D

(13) Anthracene

17.207min (+0.059) 0.01ng/ul

response 455

Ion	Exp%	Act%
178.00	100	100
179.00	16.30	208.64#
176.00	18.80	28.60#
0.00	0.00	0.00

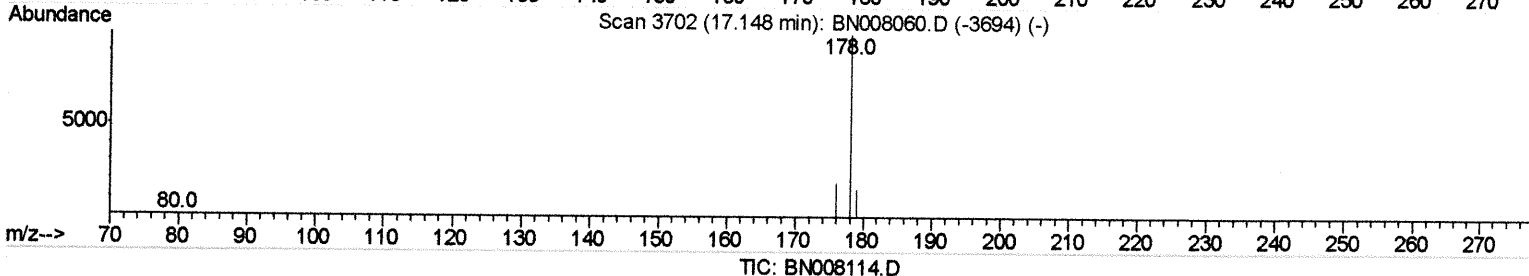
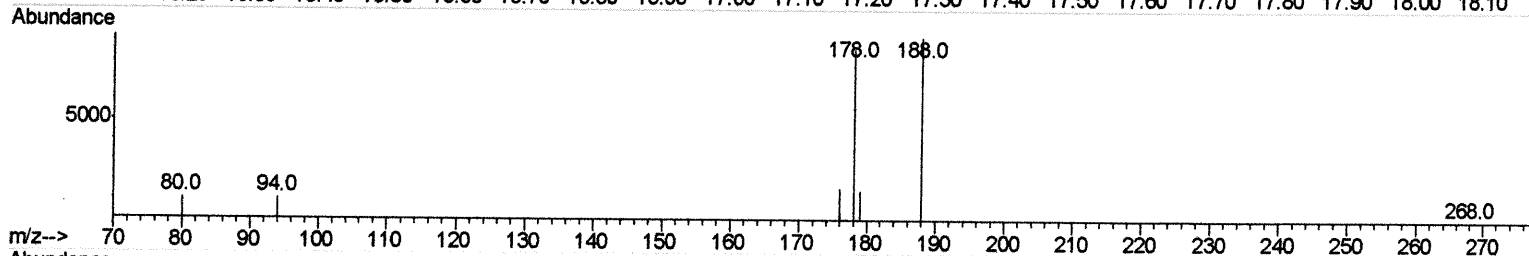
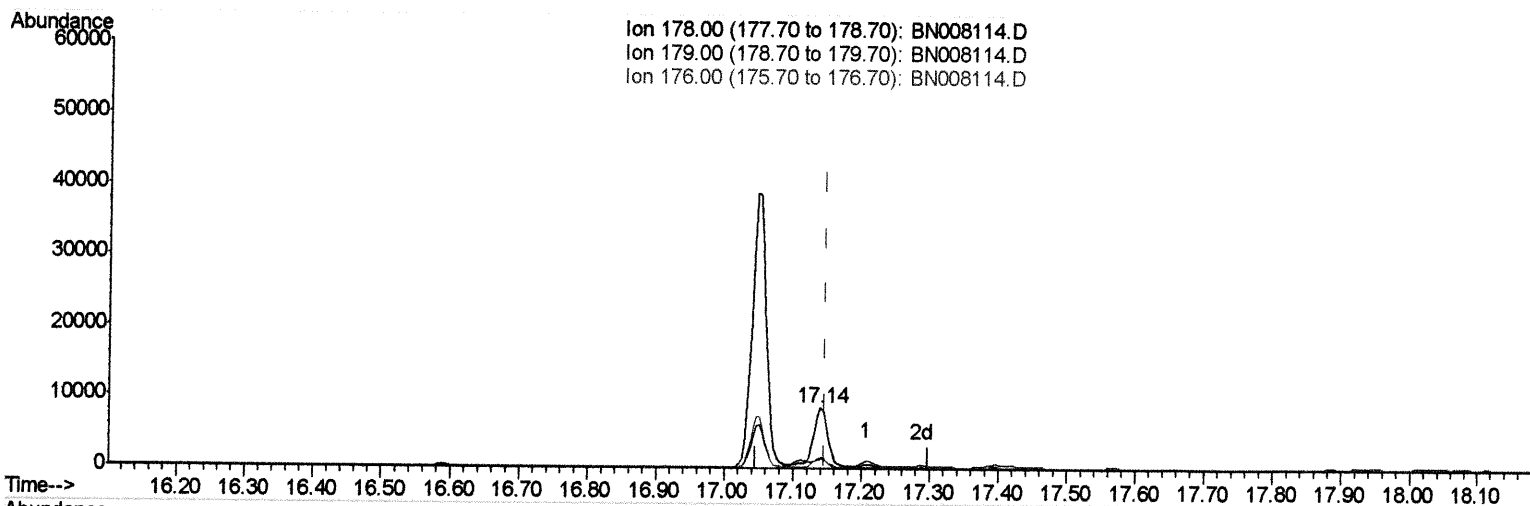
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:43:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(13) Anthracene

17.140min (-0.008) 0.22ng/ul m *240/16/19*

response 11974

Ion	Exp%	Act%
178.00	100	100
179.00	16.30	17.28
176.00	18.80	18.77
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008114.D

Acq On : 12 Oct 2019 15:57

Operator : JU

Sample : K5178-05

Misc :

ALS Vial : 47 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE8

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:44 AM

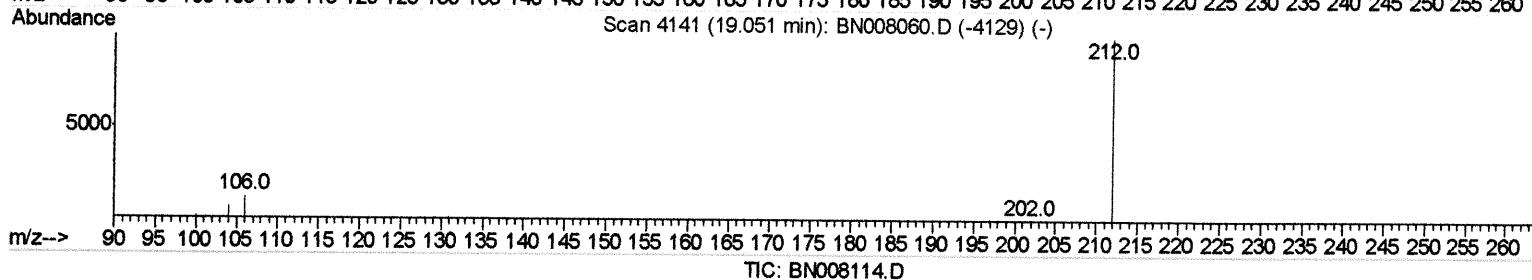
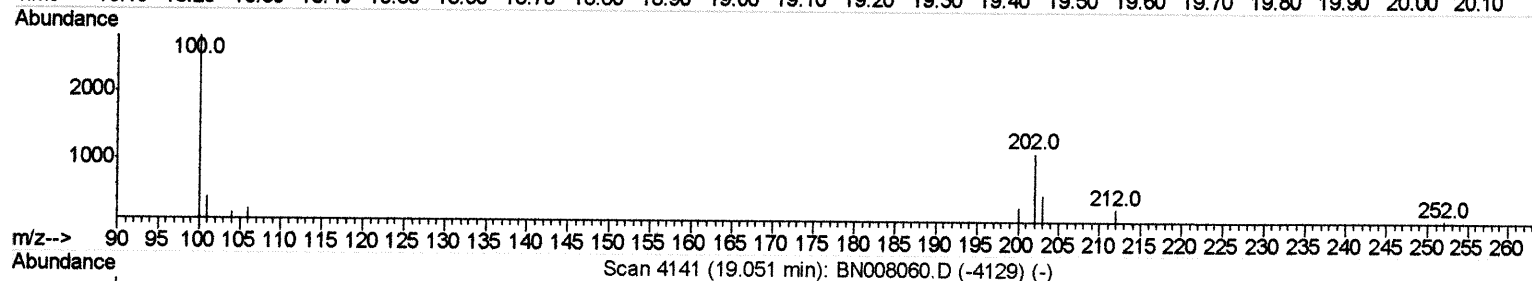
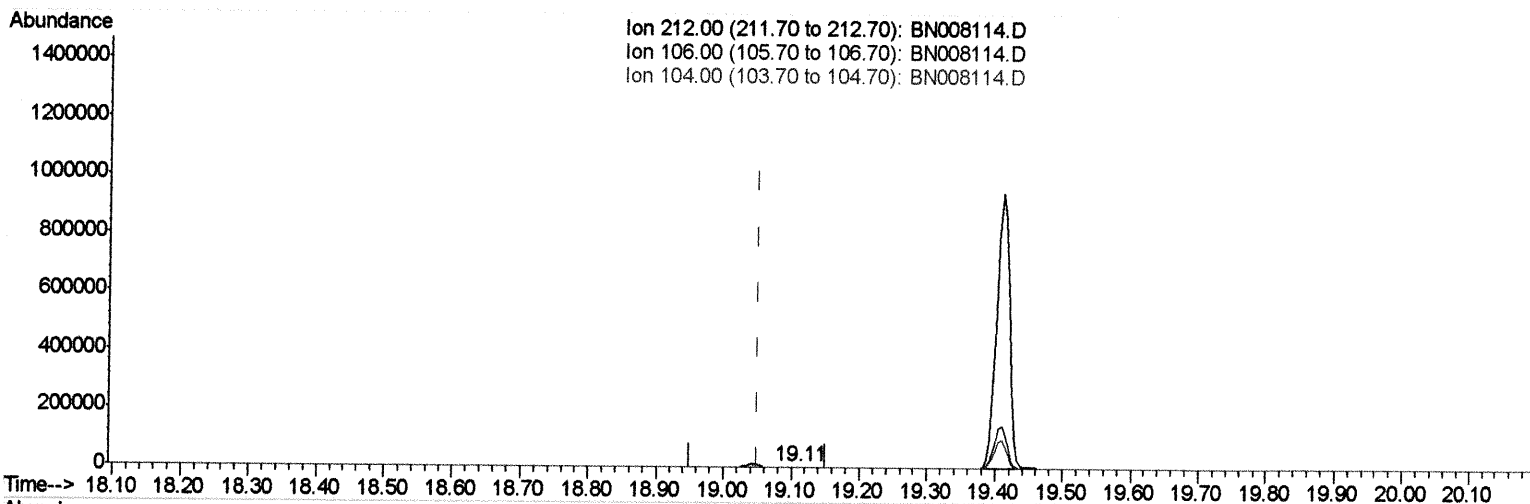
Quant Time: Oct 13 03:43:29 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.112min (+0.061) 0.00ng/ul

response 341

Ion	Exp%	Act%
212.00	100	100
106.00	12.70	0.00#
104.00	7.20	0.00#
0.00	0.00	0.00

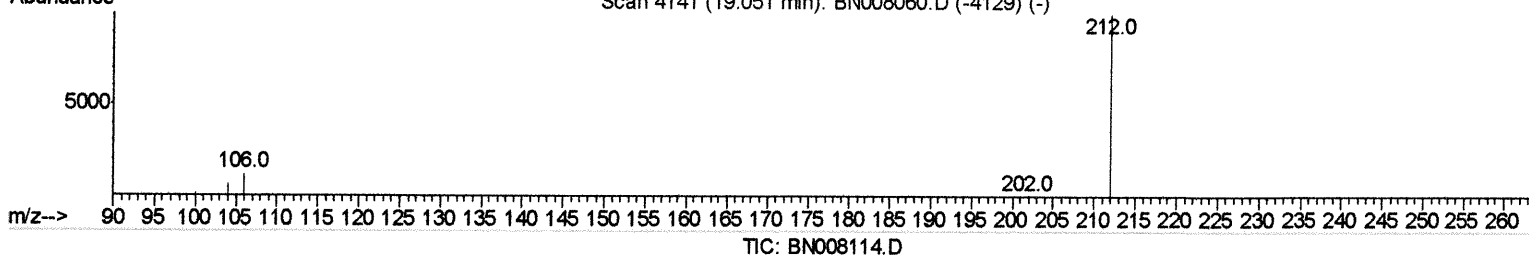
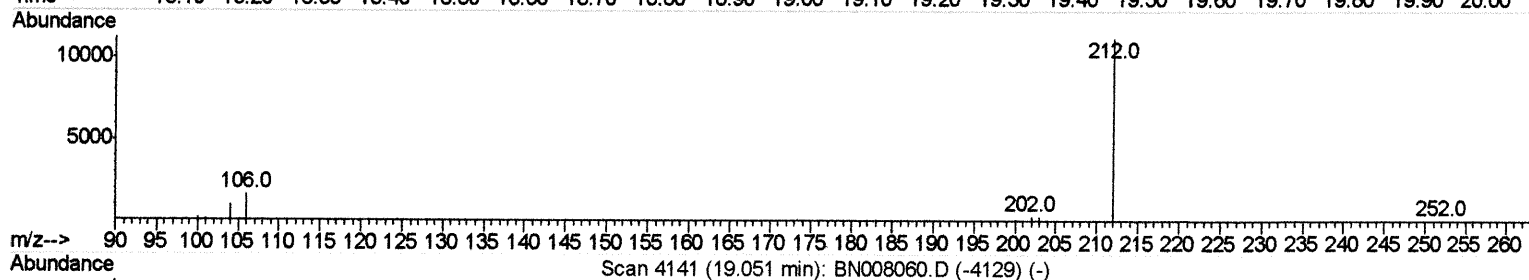
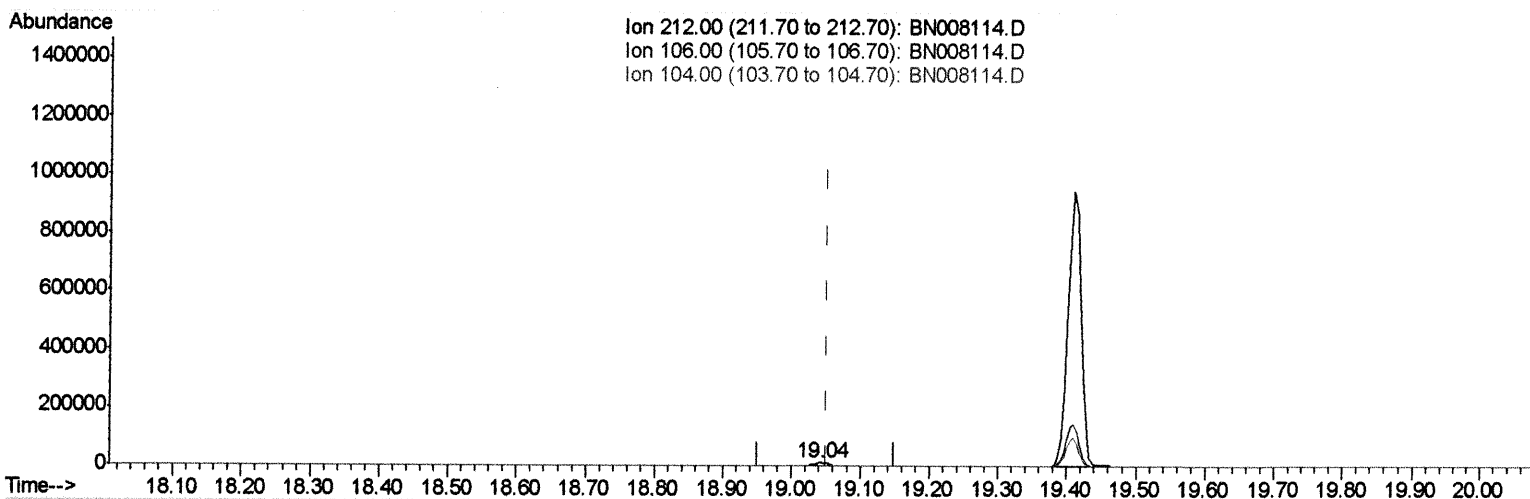
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:43:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.042min (-0.009) 0.21ng/ul m *JU 10/16/19*

response 14790

Ion	Exp%	Act%
212.00	100	100
106.00	12.70	0.00#
104.00	7.20	0.00#
0.00	0.00	0.00

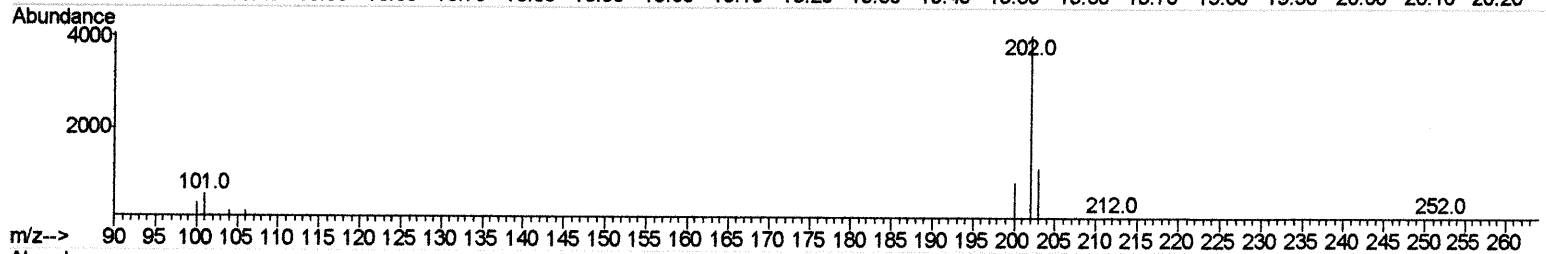
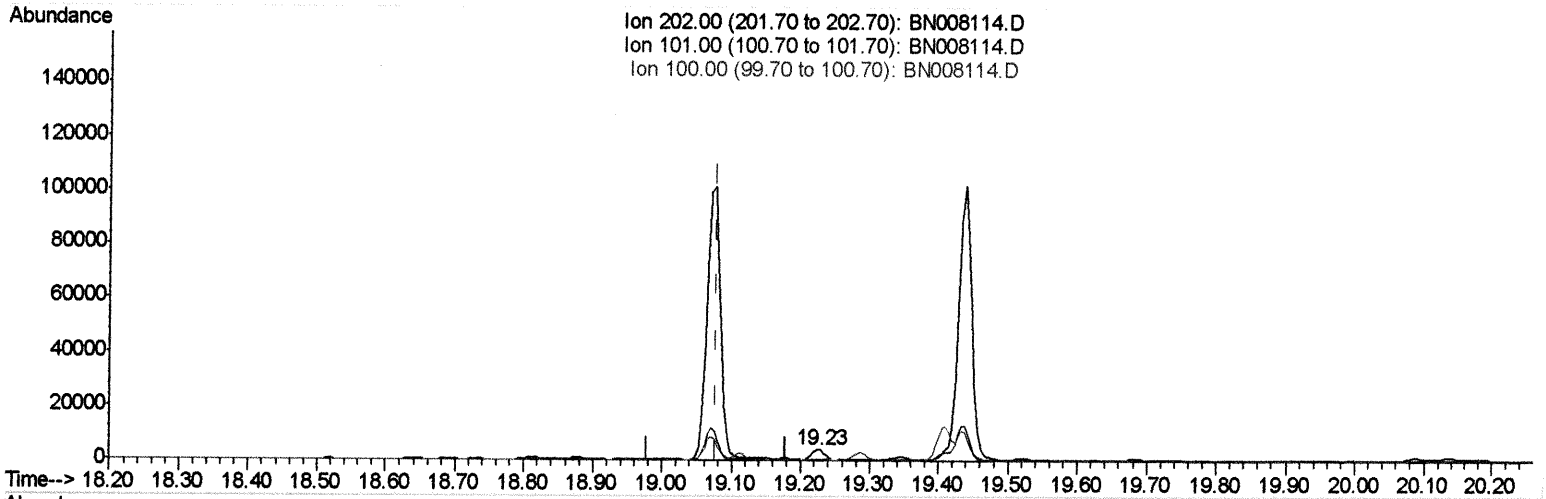
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

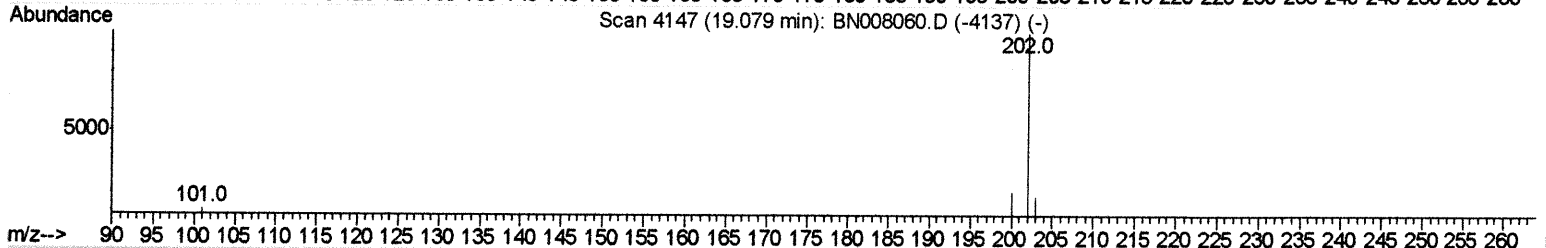
Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:43:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



Scan 4147 (19.079 min): BN008060.D (-4137) (-)



TIC: BN008114.D

(15) Fluoranthene (C)

19.228min (+0.149) 0.06ng/ul

response 4597

Ion	Exp%	Act%
202.00	100	100
101.00	11.20	14.13
100.00	8.50	9.97
0.00	0.00	0.00

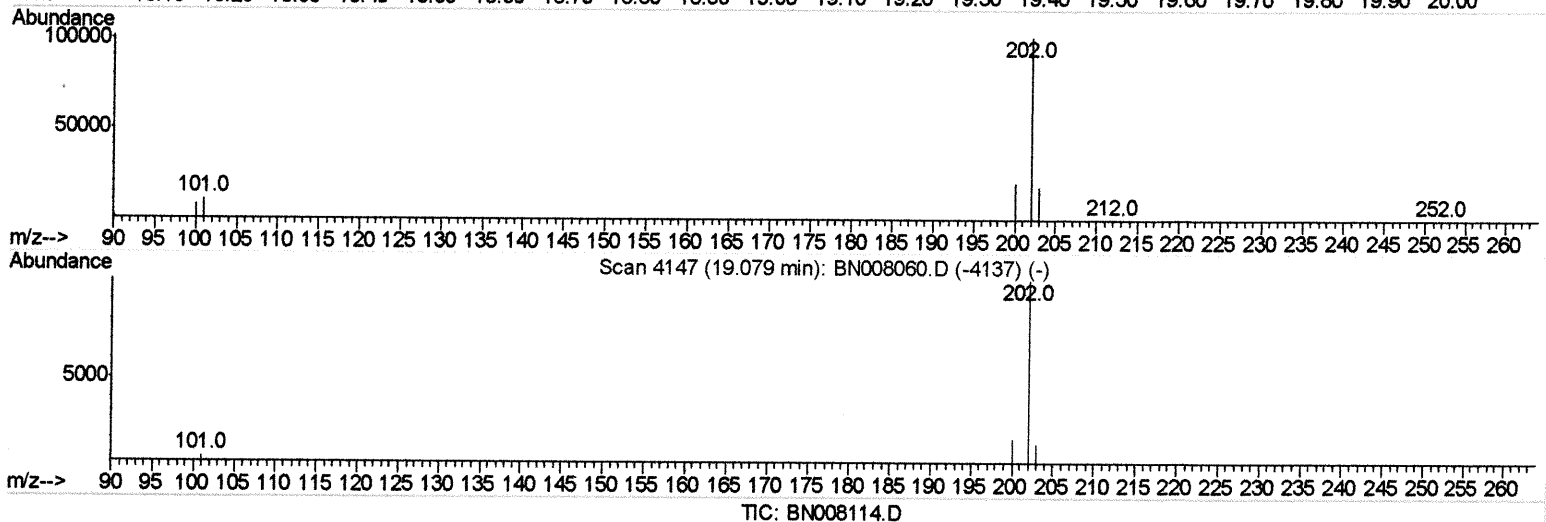
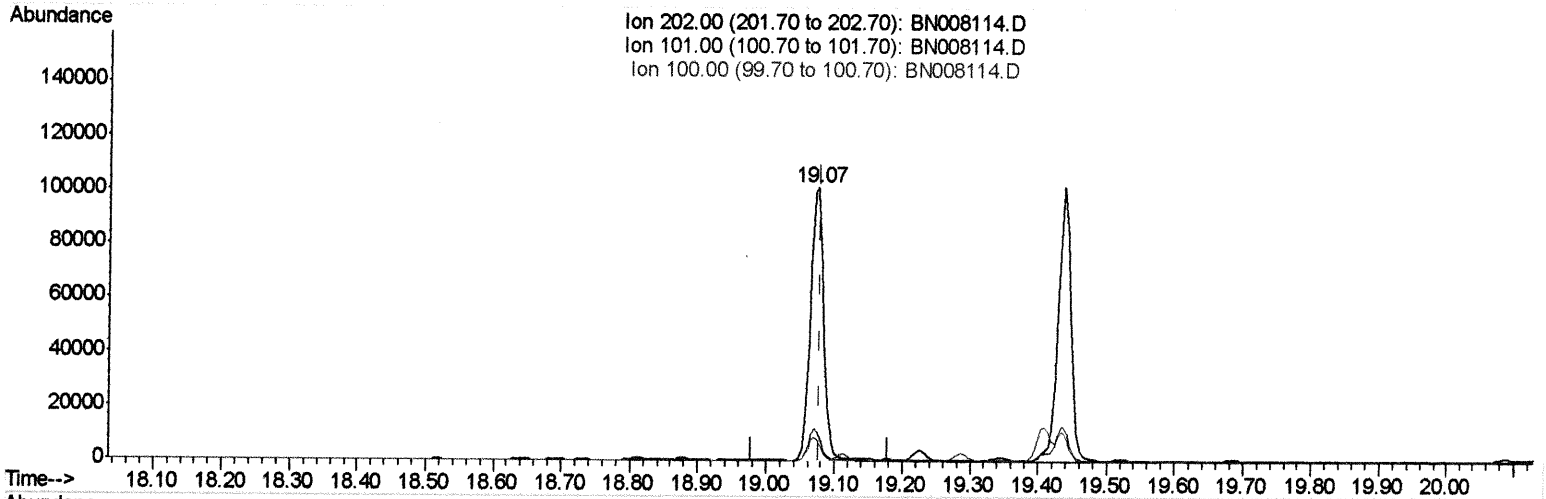
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:43:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(15) Fluoranthene (C)

19.074min (-0.004) 1.71ng/ul m JU 10/16/19

response 136849

Ion	Exp%	Act%
202.00	100	100
101.00	11.20	10.55
100.00	8.50	7.76
0.00	0.00	0.00

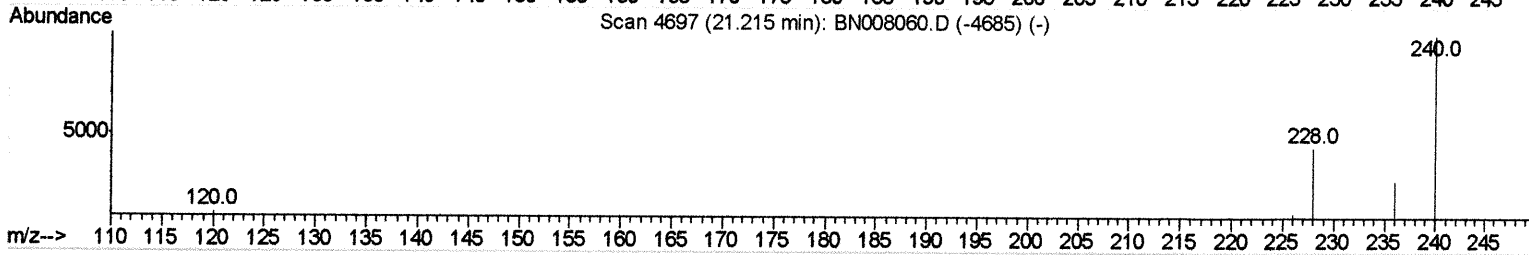
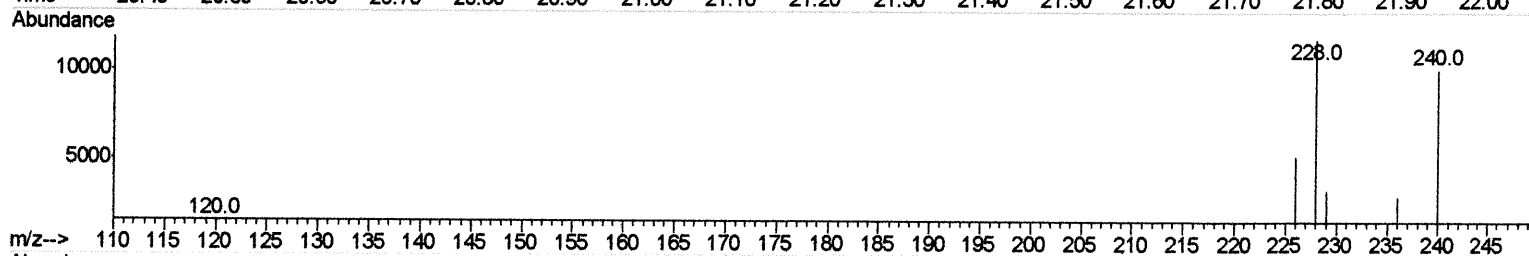
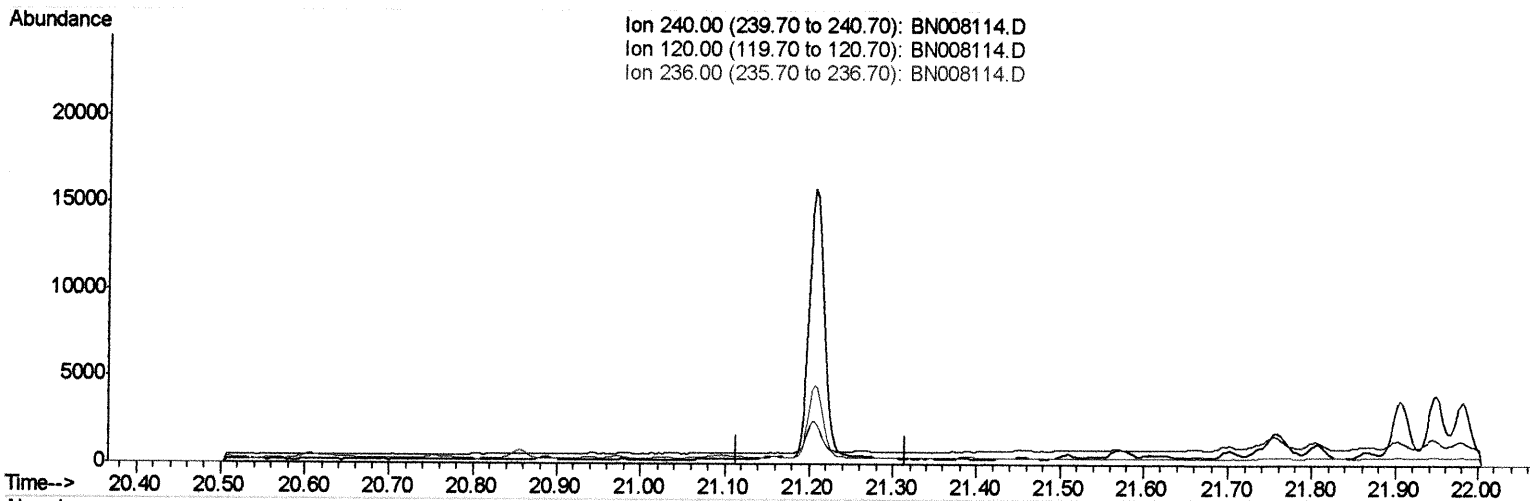
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:43:29 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.215min (-21.215) 0.00ng/ul

response 0

Ion	Exp%	Act%
240.00	100	0.00
120.00	14.70	0.00#
236.00	28.40	0.00#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008114.D

Acq On : 12 Oct 2019 15:57

Operator : JU

Sample : K5178-05

Misc :

ALS Vial : 47 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE8

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:44 AM

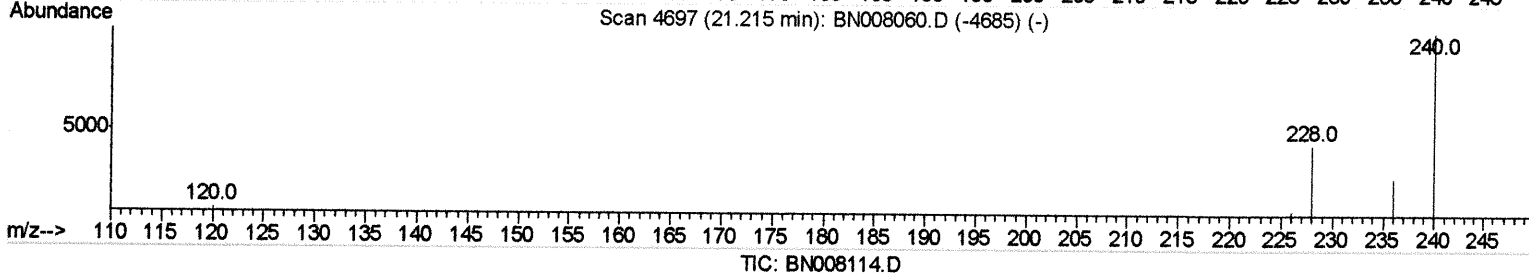
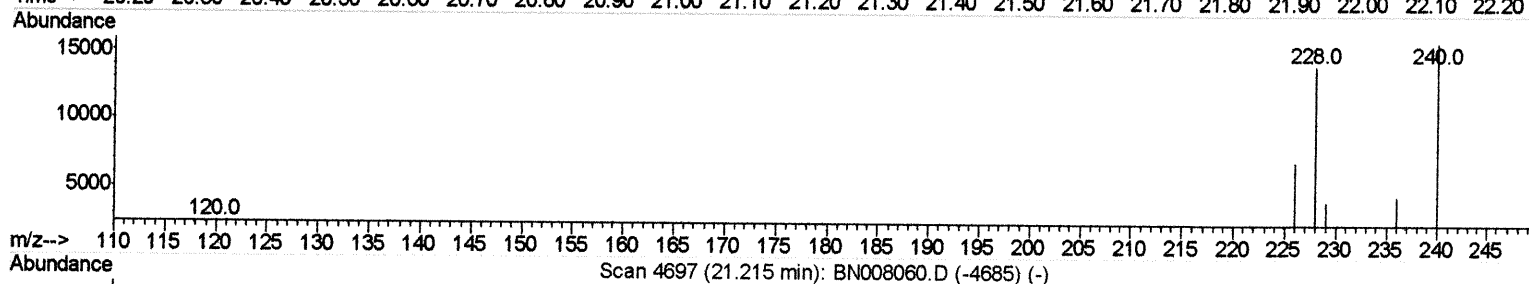
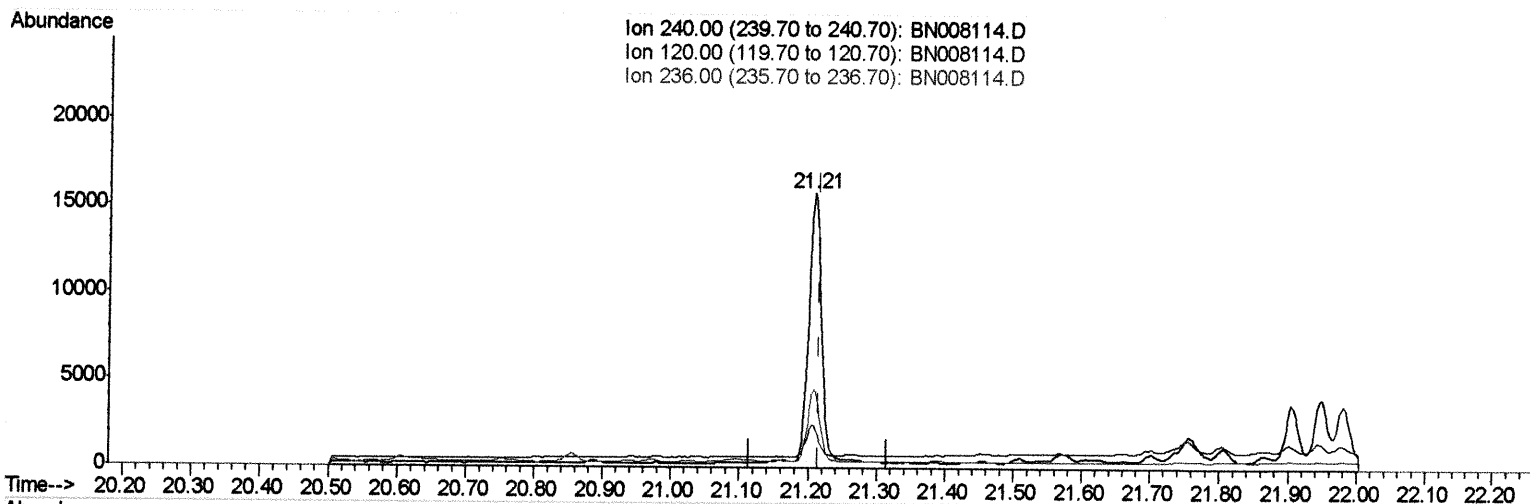
Quant Time: Oct 13 03:43:29 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.207min (-0.009) 0.40ng/ul m

JU 10/16/19

response 19844

Ion	Exp%	Act%
240.00	100	100
120.00	14.70	15.39
236.00	28.40	28.73
0.00	0.00	0.00

Quantitation Report (Qedit)

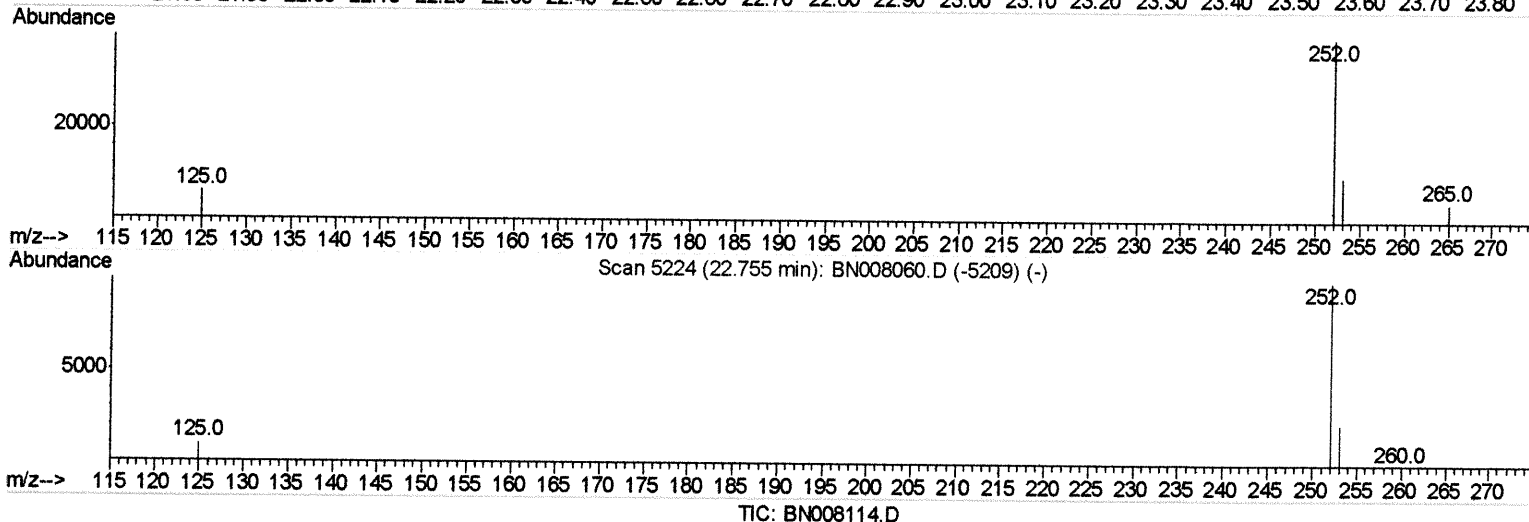
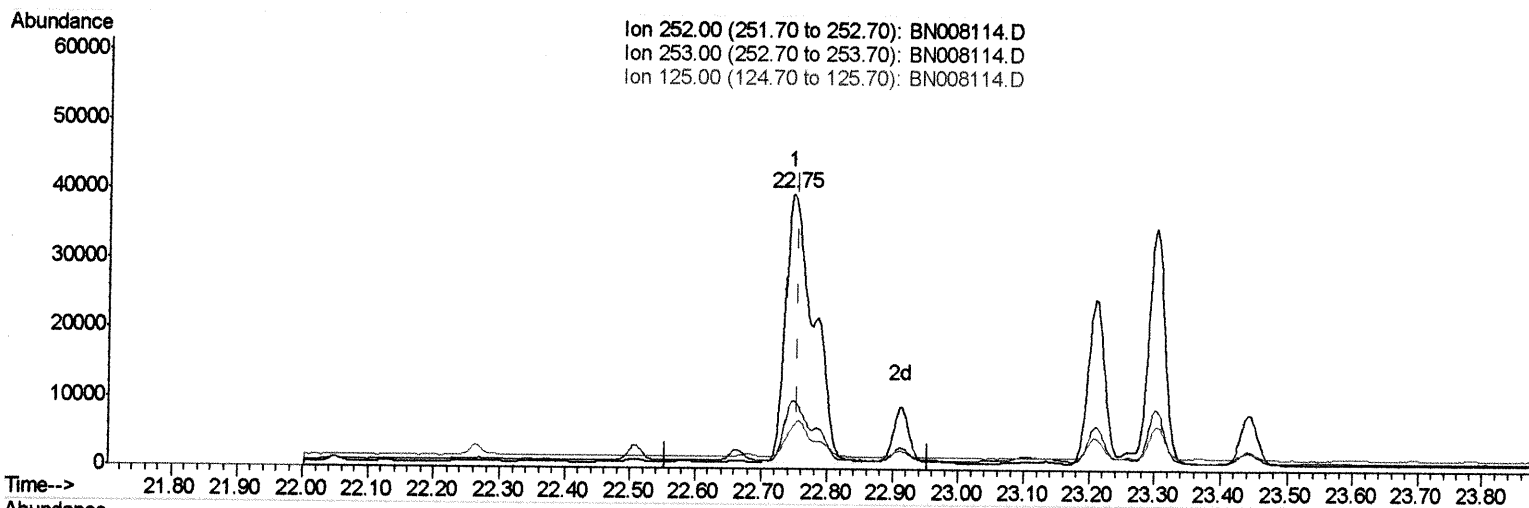
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008114.D
Acq On : 12 Oct 2019 15:57
Operator : JU
Sample : K5178-05
Misc :
ALS Vial : 47 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE8

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:45:46 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.747min (-0.009) 1.99ng/ul

response 115815

Ion	Exp%	Act%
252.00	100	100
253.00	26.70	24.82
125.00	16.20	15.66
0.00	0.00	0.00

Quantitation Report (Qedit)

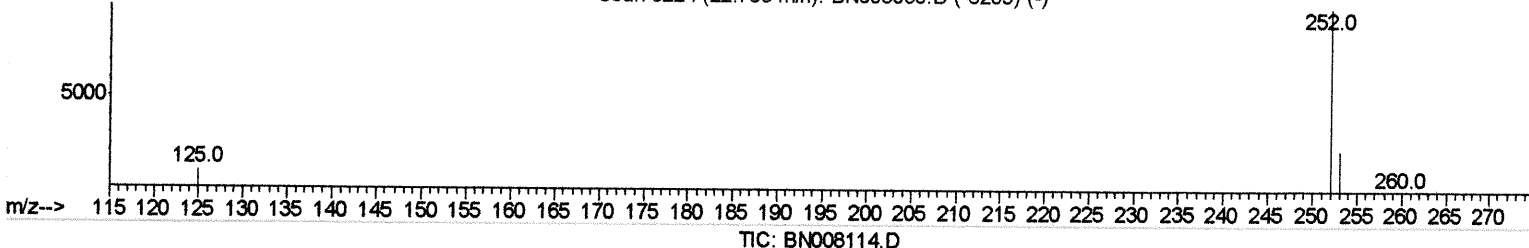
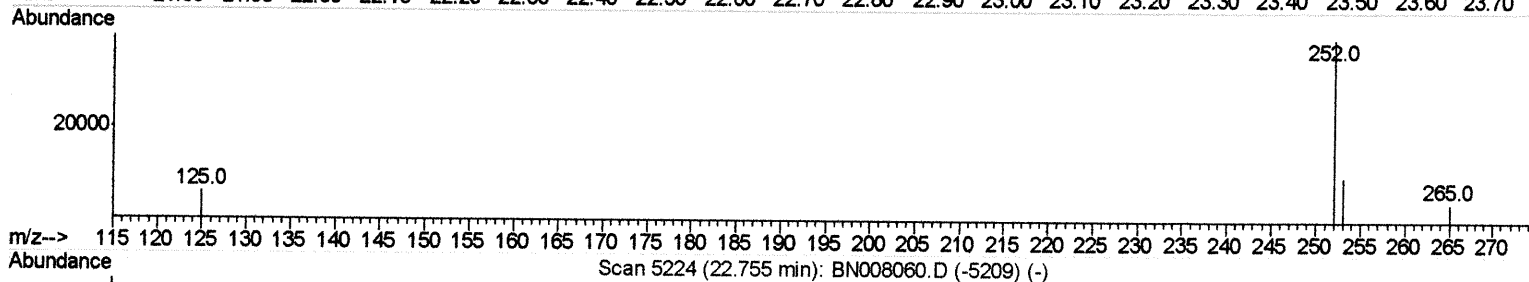
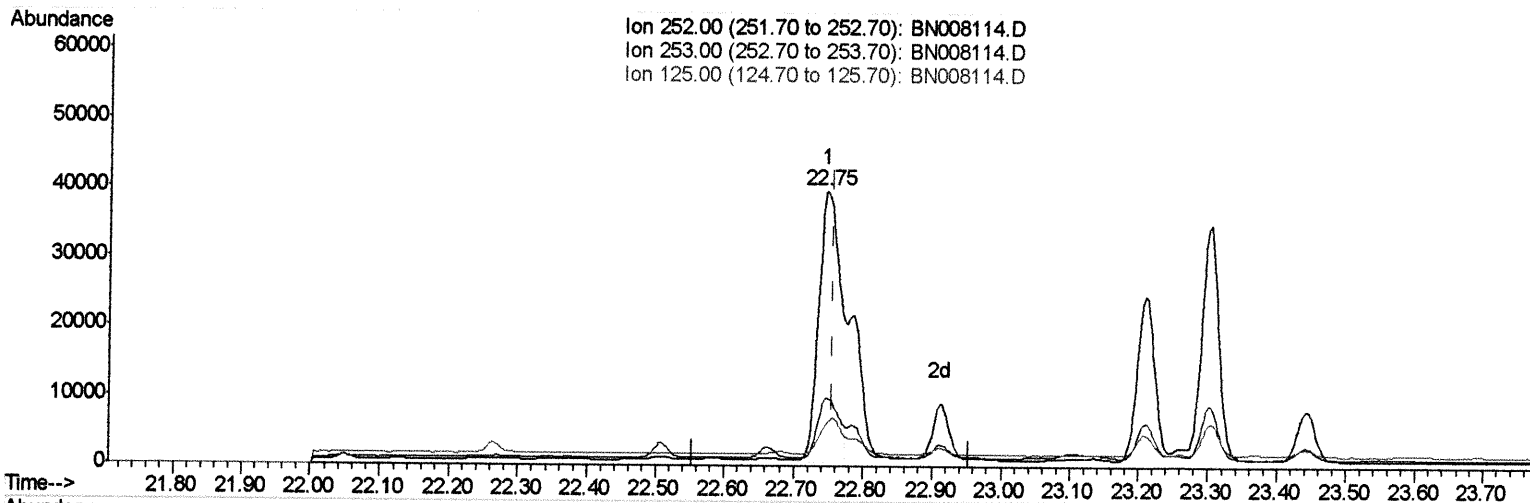
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
 Data File : BN008114.D
 Acq On : 12 Oct 2019 15:57
 Operator : JU
 Sample : K5178-05
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BEPE8

Manual Integrations
 APPROVED

mohammad
 10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:45:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 11 19:05:54 2019
 Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.747min (-0.009) 1.43ng/ul m *JU 10/16/19*

response 83567

Ion	Exp%	Act%
252.00	100	100
253.00	26.70	24.82
125.00	16.20	15.66
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008114.D

Acq On : 12 Oct 2019 15:57

Operator : JU

Sample : K5178-05

Misc :

ALS Vial : 47 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE8

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:44 AM

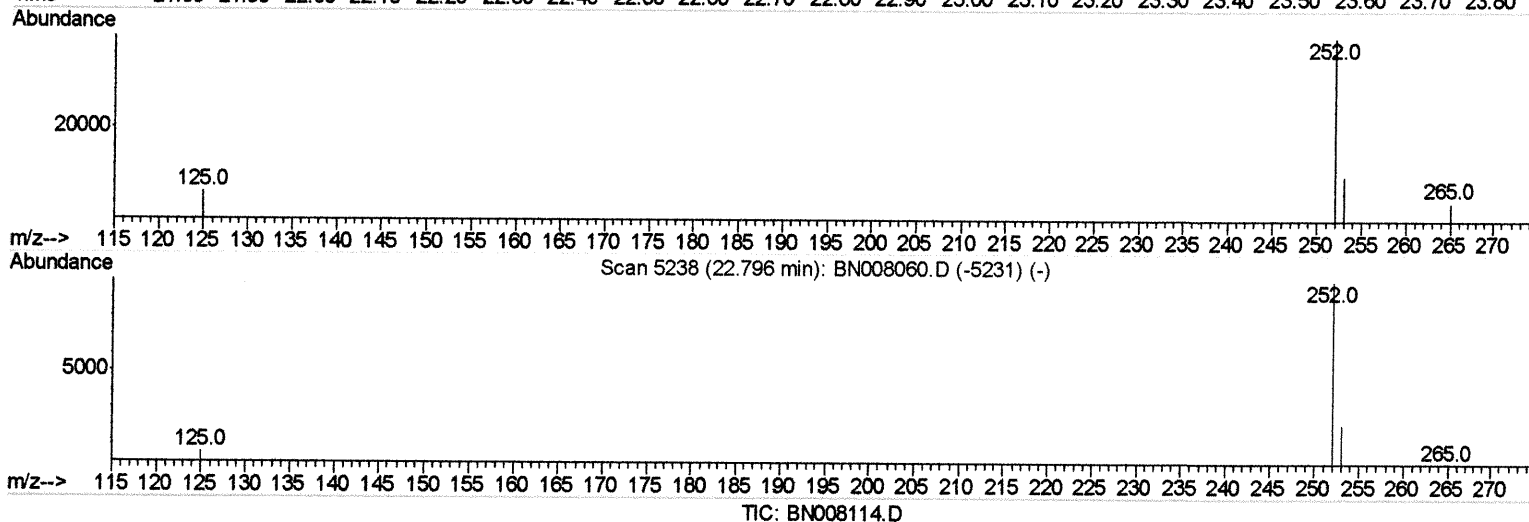
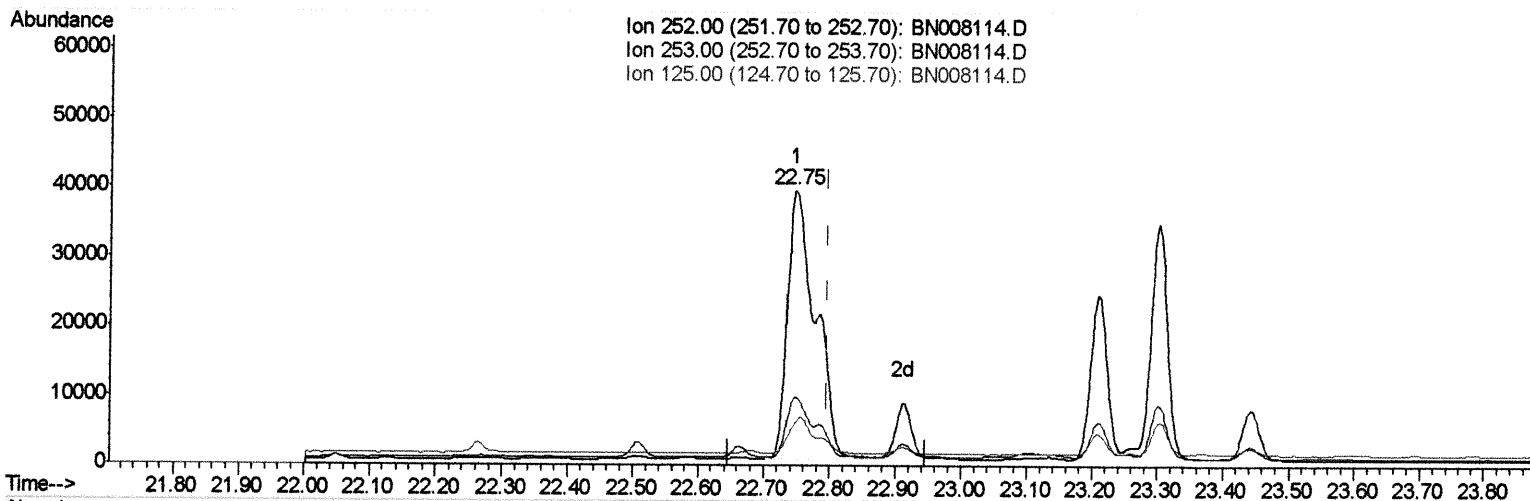
Quant Time: Oct 13 03:45:46 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.747min (-0.049) 1.75ng/ul

response 115815

Ion	Exp%	Act%
252.00	100	100
253.00	26.60	24.82
125.00	15.40	15.66
0.00	0.00	0.00

Quantitation Report (Qedit)

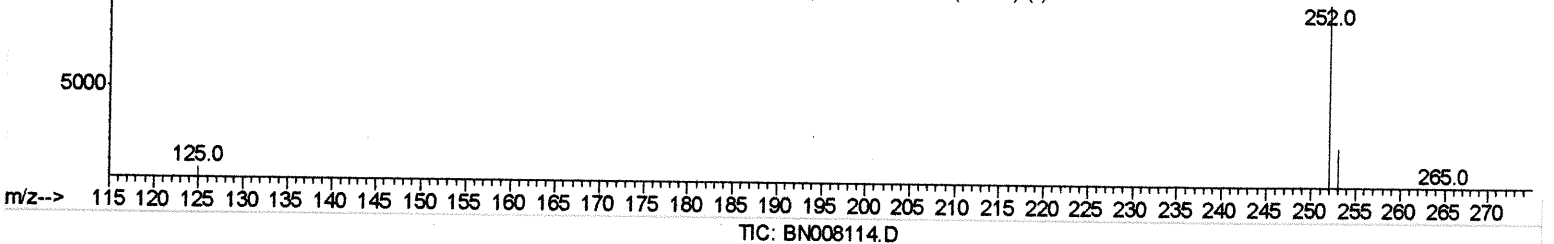
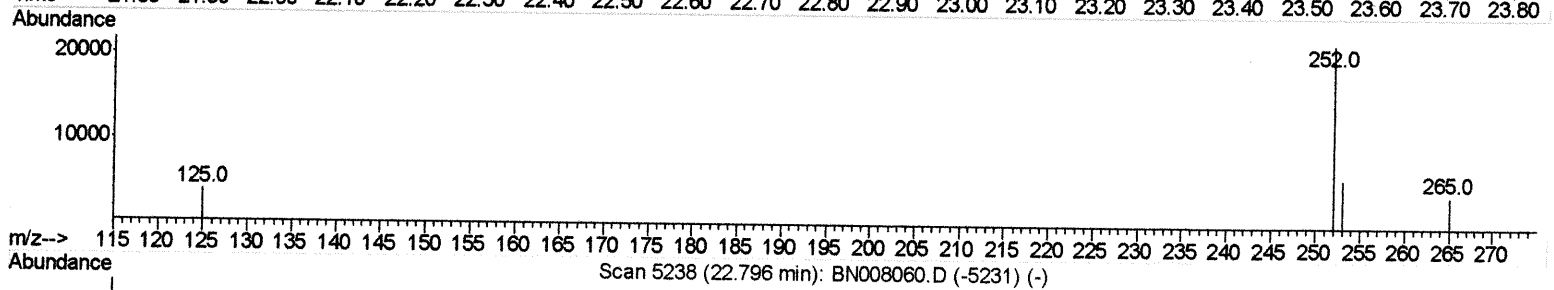
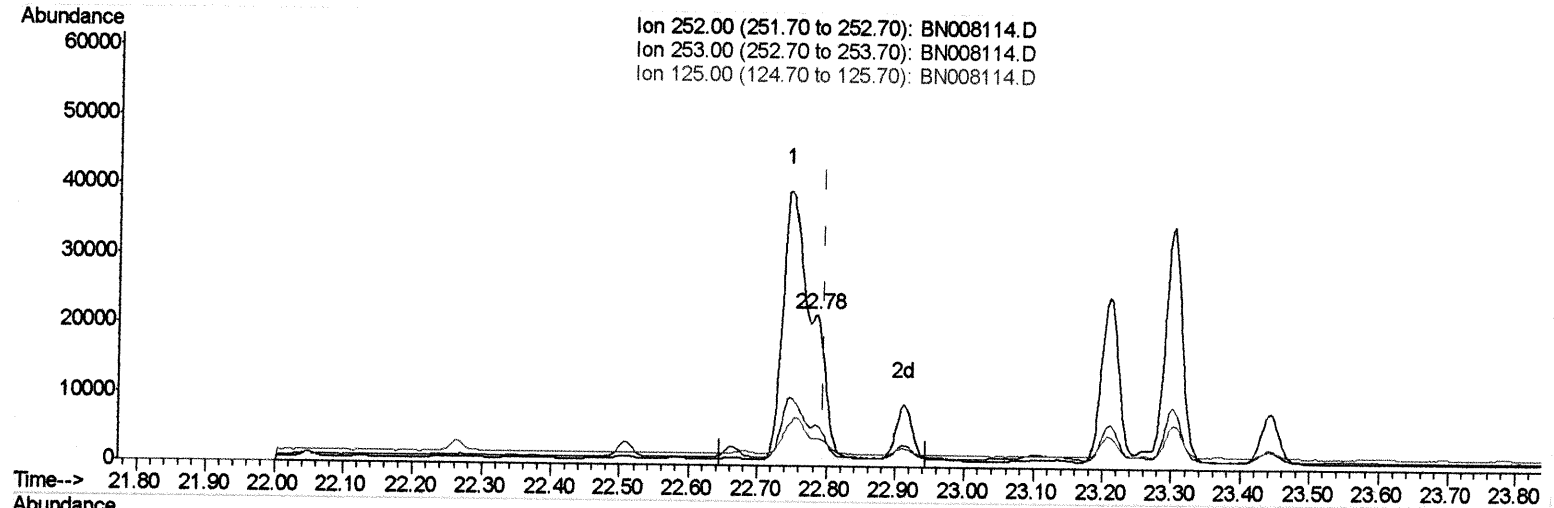
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
 Data File : BN008114.D
 Acq On : 12 Oct 2019 15:57
 Operator : JU
 Sample : K5178-05
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BEPE8

Manual Integrations
 APPROVED

mohammad
 10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:45:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 11 19:05:54 2019
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.785min (-0.011) 0.47ng/ul m *JU 10/16/19*

response 31293

Ion	Exp%	Act%
252.00	100	100
253.00	26.60	27.31
125.00	15.40	18.25
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
 Data File : BN008114.D
 Acq On : 12 Oct 2019 15:57
 Operator : JU
 Sample : K5178-05
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BEPE8

Manual Integrations
 APPROVED

mohammad
 10/15/2019 7:58:44 AM

Quant Time: Oct 13 03:46:54 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 11 19:05:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	2918	0.40	ng/ul	-0.01
2) Naphthalene-d8	10.39	136	14059	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.26	164	9059	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.01	188	20725m	0.40	ng/ul	0.00
16) Chrysene-d12	21.21	240	19844m	0.40	ng/ul	0.00
20) Perylene-d12	23.40	264	17901	0.40	ng/ul	-0.01

System Monitoring Compounds

4) 2-Methylnaphthalene-d10	11.99	152	4318	0.18	ng/ul	-0.01
14) Fluoranthene-d10	19.04	212	14790m	0.21	ng/ul	0.00

Target Compounds

					Ovalue
3) Naphthalene	10.44	128	2425	0.061	ng/ul# 90
5) 2-Methylnaphthalene	12.07	142	1381	0.050	ng/ul 99
7) Acenaphthylene	13.98	152	7604	0.176	ng/ul 97
8) Acenaphthene	14.32	153	1803	0.054	ng/ul 98
9) Fluorene	15.31	166	2487	0.065	ng/ul# 95
12) Phenanthrene	17.05	178	55949m	0.922	ng/ul
13) Anthracene	17.14	178	11974m	0.224	ng/ul
15) Fluoranthene	19.07	202	136849m	1.708	ng/ul
17) Pyrene	19.44	202	136724	1.730	ng/ul 99
18) Benzo(a)anthracene	21.19	228	77016	1.067	ng/ul 96
19) Chrysene	21.24	228	84945	0.959	ng/ul 98
21) Benzo(b)fluoranthene	22.75	252	83567m	1.434	ng/ul
22) Benzo(k)fluoranthene	22.78	252	31293m	0.474	ng/ul
23) Benzo(a)pyrene	23.30	252	59247	0.966	ng/ul# 92
24) Indeno(1,2,3-cd)pyrene	25.57	276	34342	0.475	ng/ul# 95
25) Dibenzo(a,h)anthracene	25.58	278	8110	0.142	ng/ul# 70
26) Benzo(a,h,i)perylene	26.23	276	33329	0.503	ng/ul 98

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