

(QT Reviewed)

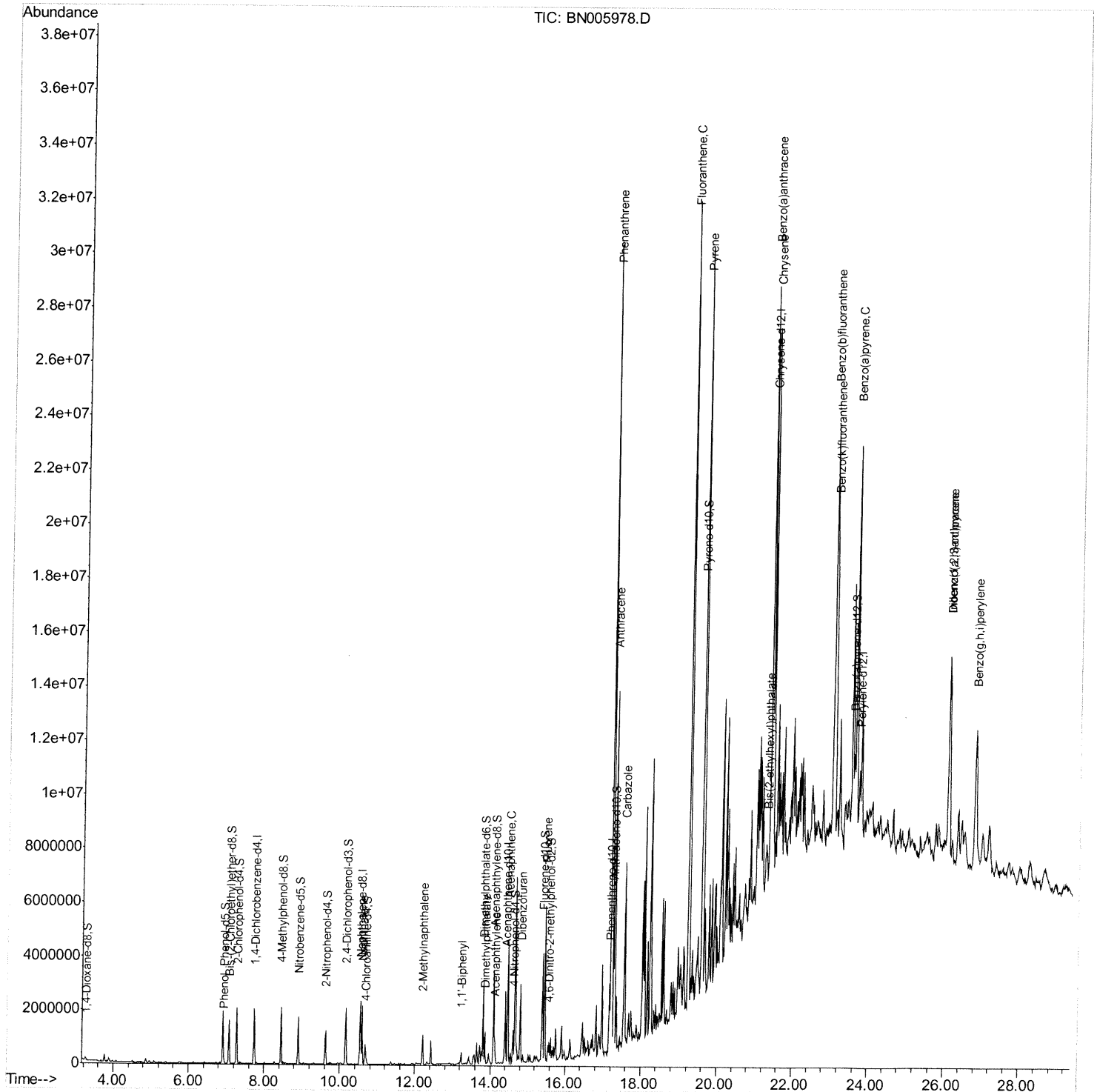
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\  
Data File : BN005979.D  
Acq On    : 31 May 2019   13:17  
Operator  : JU/SJ  
Sample    : K2928-03  
Misc      :  
ALS Vial  : 9      Sample Multiplier: 1
```

Instrument :
BNA_N
ClientSampleId :
A42B8

Manual Integrations

mohammad
6/5/2019 6:10:39 AM

Quant Time: May 31 14:26:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri May 31 14:10:13 2019
Response via : Initial Calibration



Quantitation Report (Qedit)

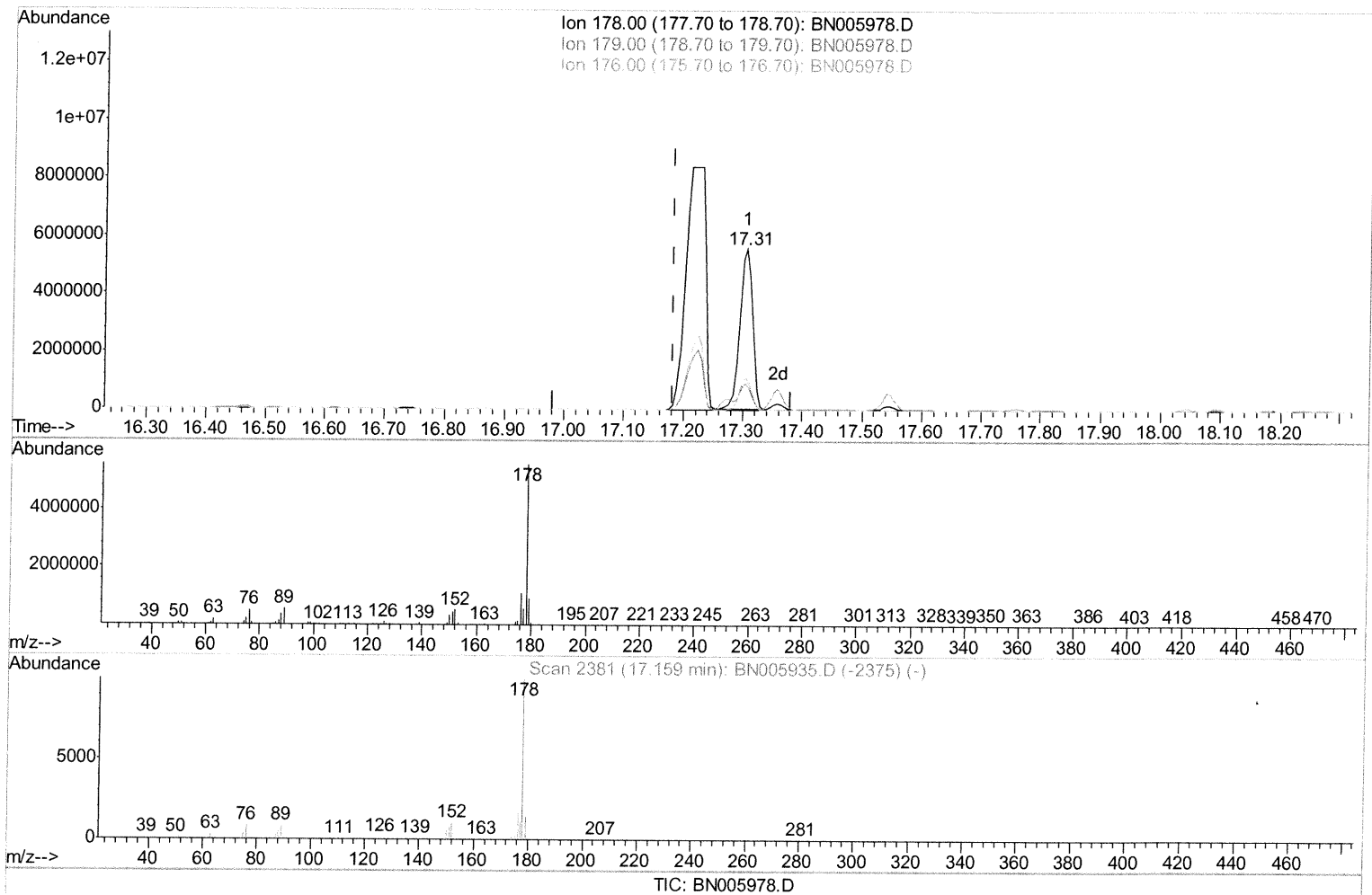
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 A42B8

Manual Integrations
 APPROVED

mohammad
 6/5/2019 6:10:39 AM

Quant Time: May 31 14:18:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 31 14:10:13 2019
 Response via : Initial Calibration



(69) Phenanthrene

17.306min (+0.124) 98.22ng/ul

response 8406928

Ion	Exp%	Act%
178.00	100	100
179.00	15.30	16.49
176.00	18.90	19.80
0.00	0.00	0.00

Quantitation Report (Qedit)

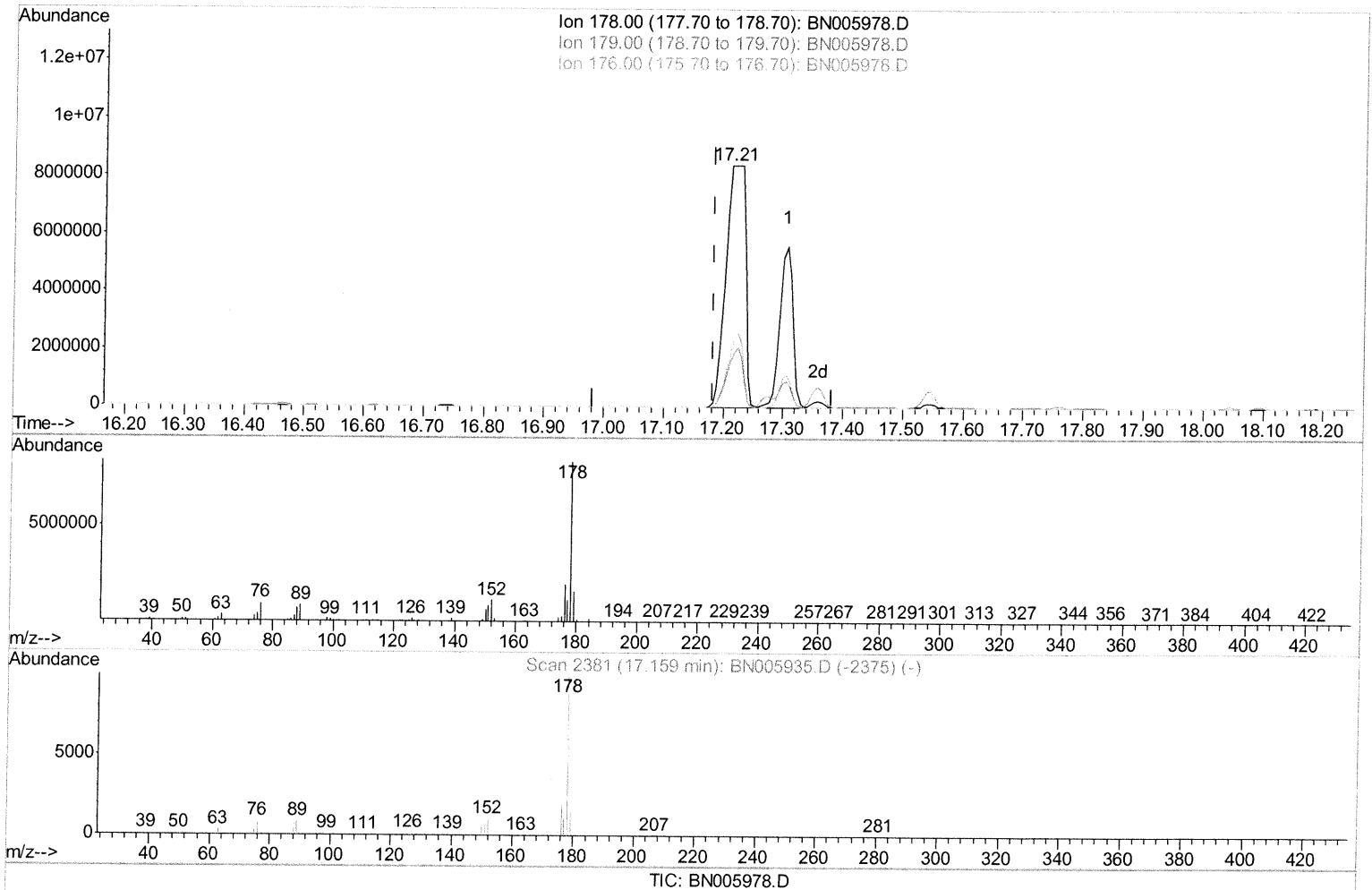
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
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 Response via : Initial Calibration



(69) Phenanthrene

17.212min (+0.029) 223.57ng/ul m

JU
 06/04/19

response 19134926

Ion	Exp%	Act%
178.00	100	100
179.00	15.30	18.98#
176.00	18.90	23.13#
0.00	0.00	0.00

Quantitation Report (Qedit)

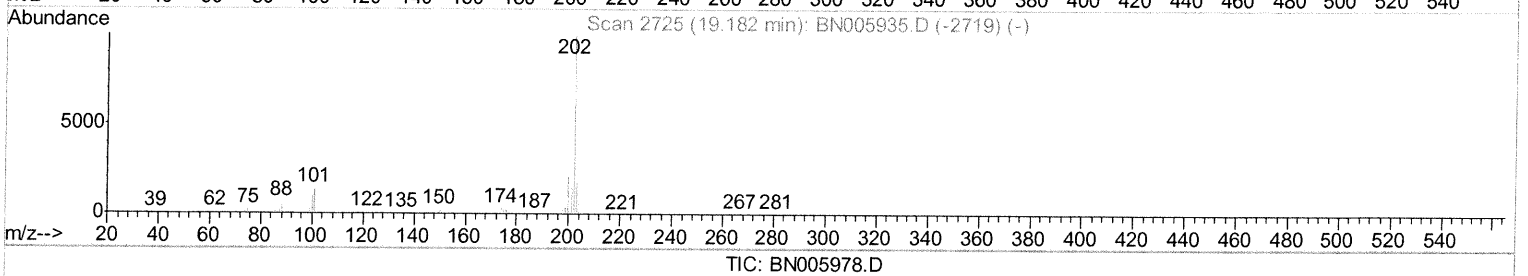
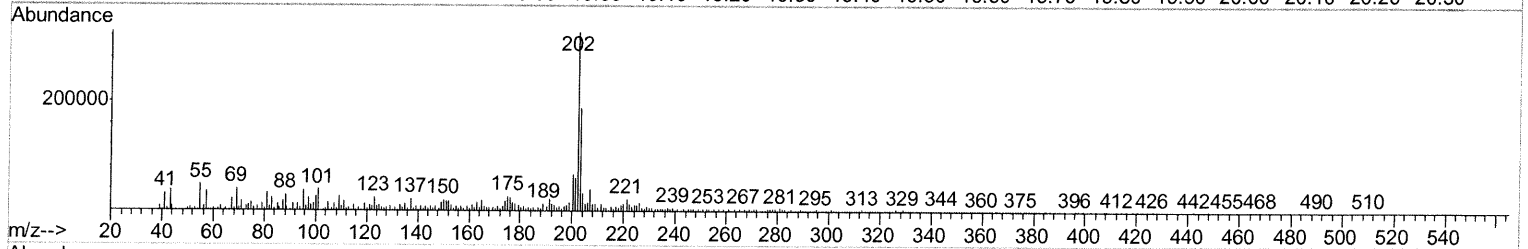
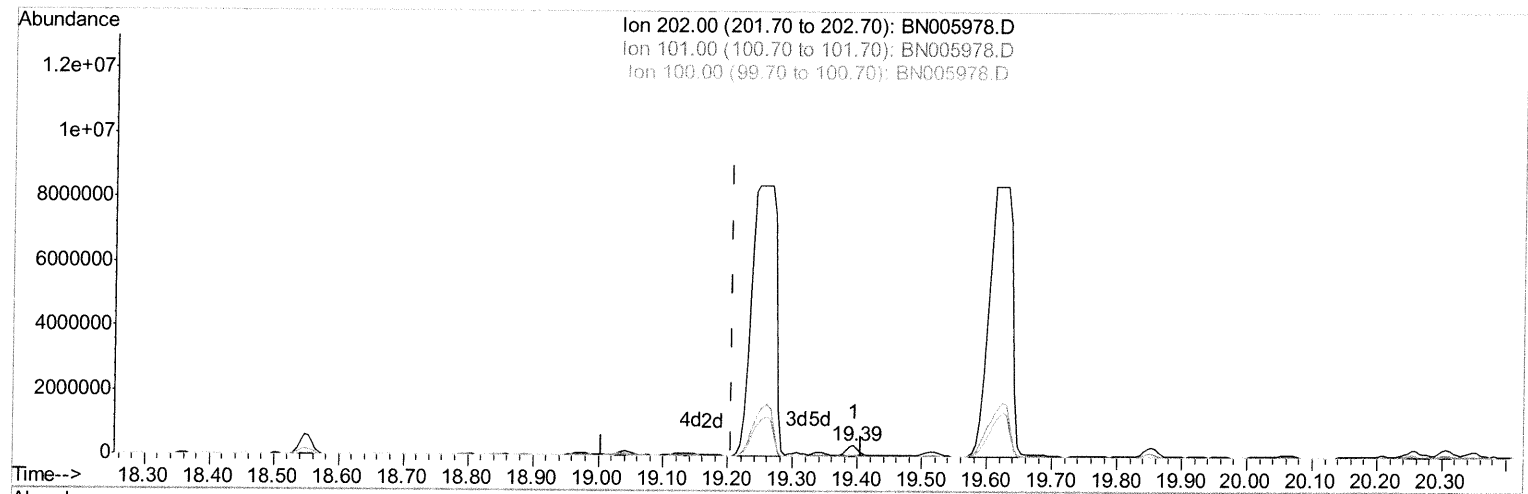
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
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TIC: BN005978.D

(76) Fluoranthene (C)

19.394min (+0.188) 4.22ng/ul

response 385399

Ion	Exp%	Act%
202.00	100	100
101.00	10.70	12.18
100.00	7.90	8.61
0.00	0.00	0.00

Quantitation Report (Qedit)

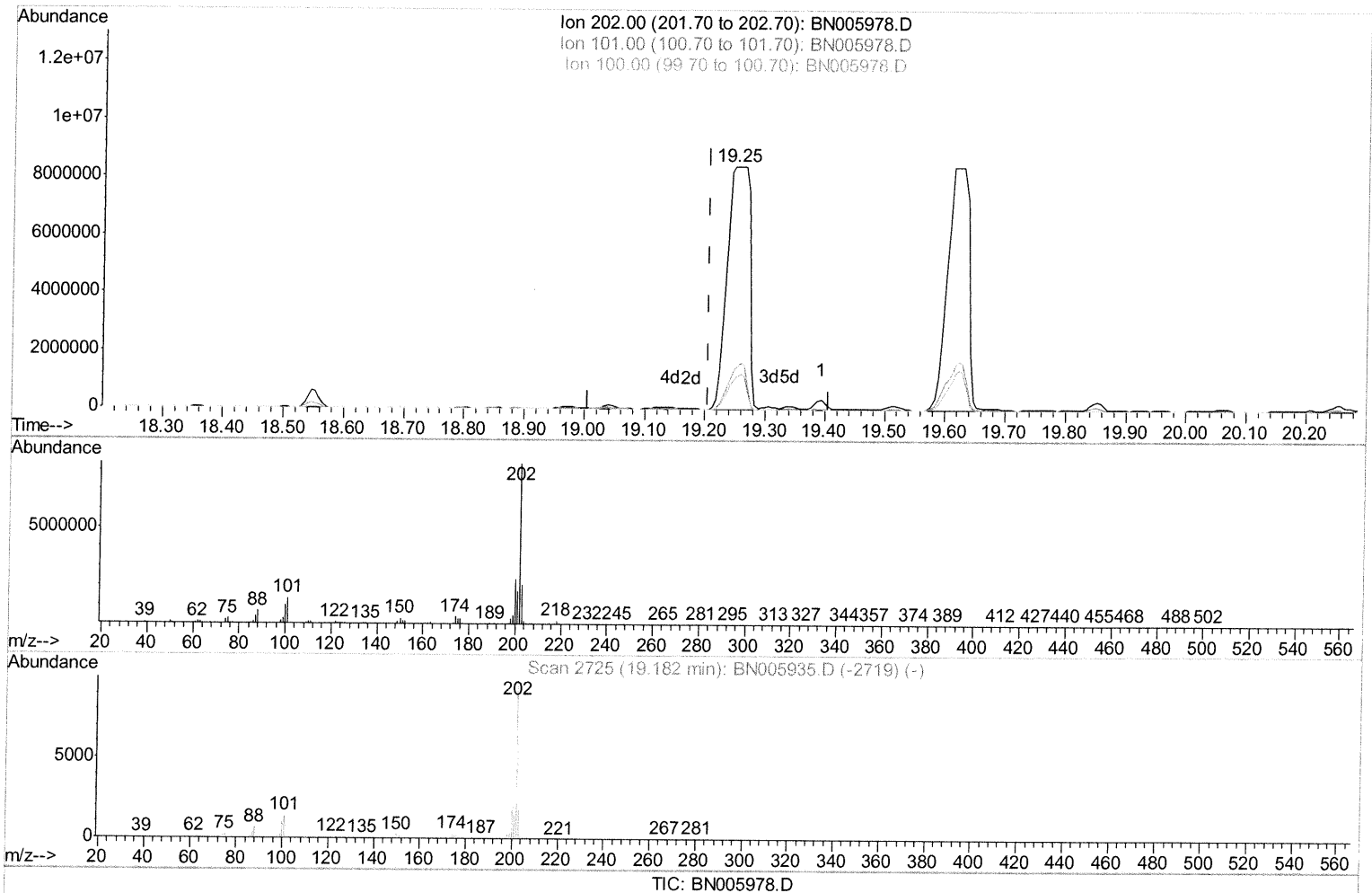
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
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 ALS Vial : 9 Sample Multiplier: 1

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(76) Fluoranthene (C)

19.247min (+0.041) 237.42ng/ul m

JU
 06/04/19

response 21692264

Ion	Exp%	Act%
202.00	100	100
101.00	10.70	15.79#
100.00	7.90	11.84#
0.00	0.00	0.00

Quantitation Report (Qedit)

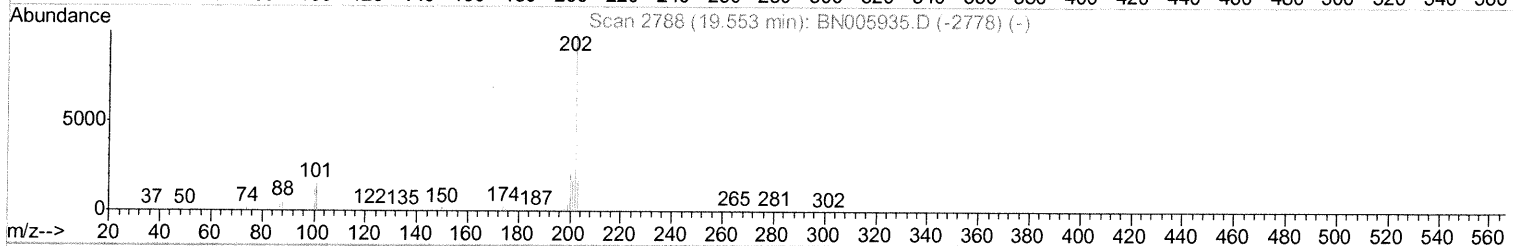
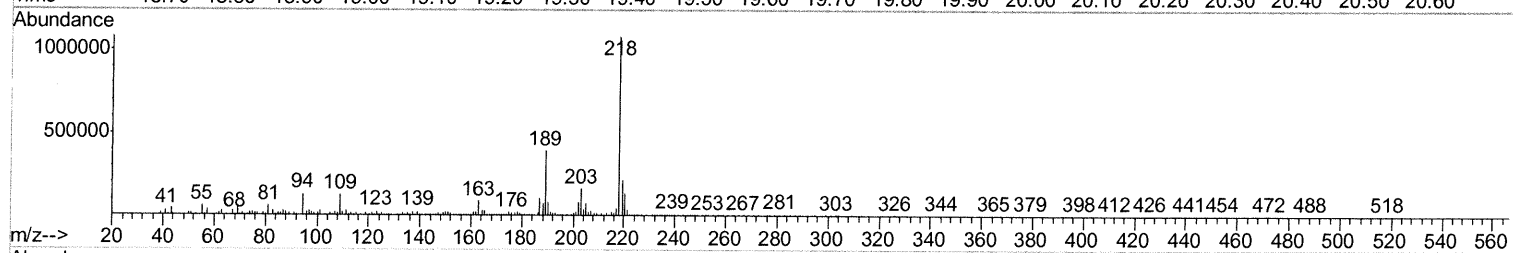
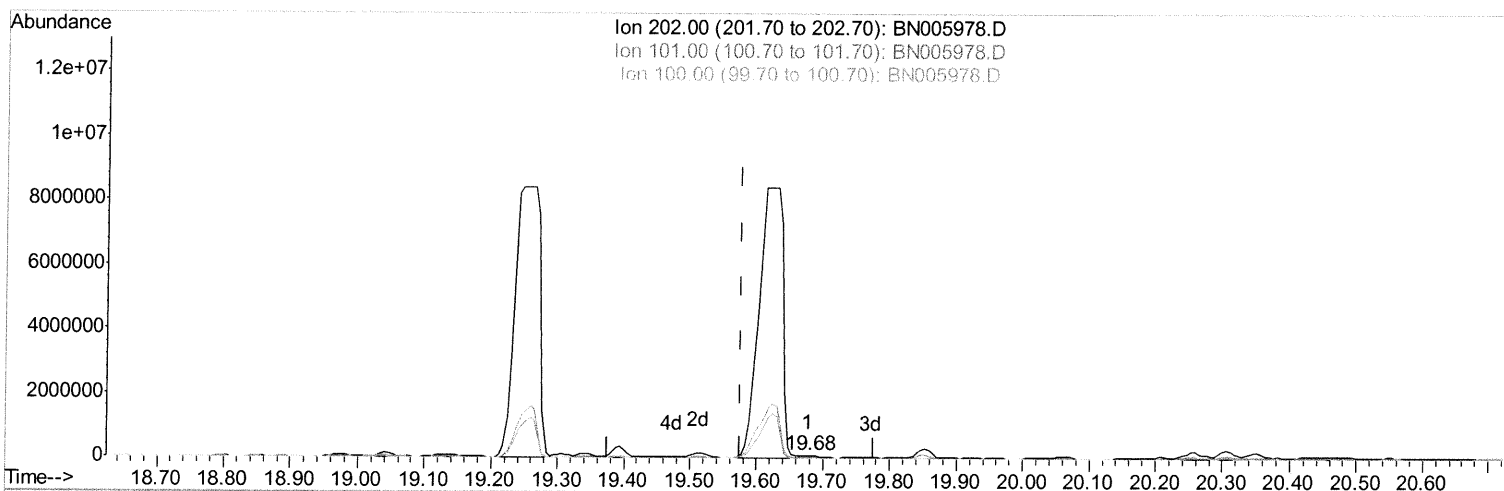
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
Data File : BN005979.D
Acq On : 31 May 2019 13:17
Operator : JU/SJ
Sample : K2928-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Manual Integrations
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TIC: BN005978.D

(79) Pyrene

19.677min (+0.100) 1.59ng/ul

response 119297

Ion	Exp%	Act%
202.00	100	100
101.00	12.90	34.81#
100.00	9.90	14.99#
0.00	0.00	0.00

Quantitation Report (Qedit)

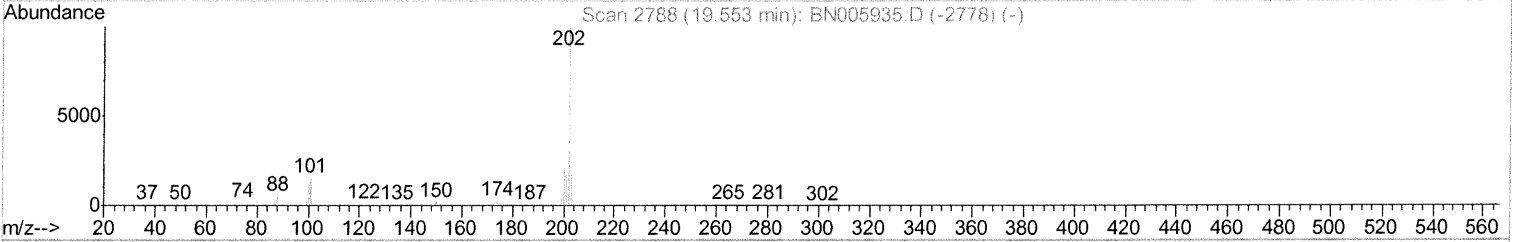
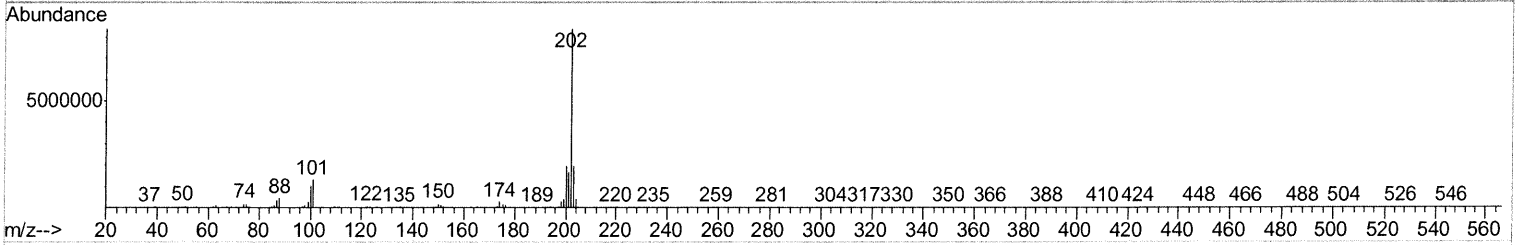
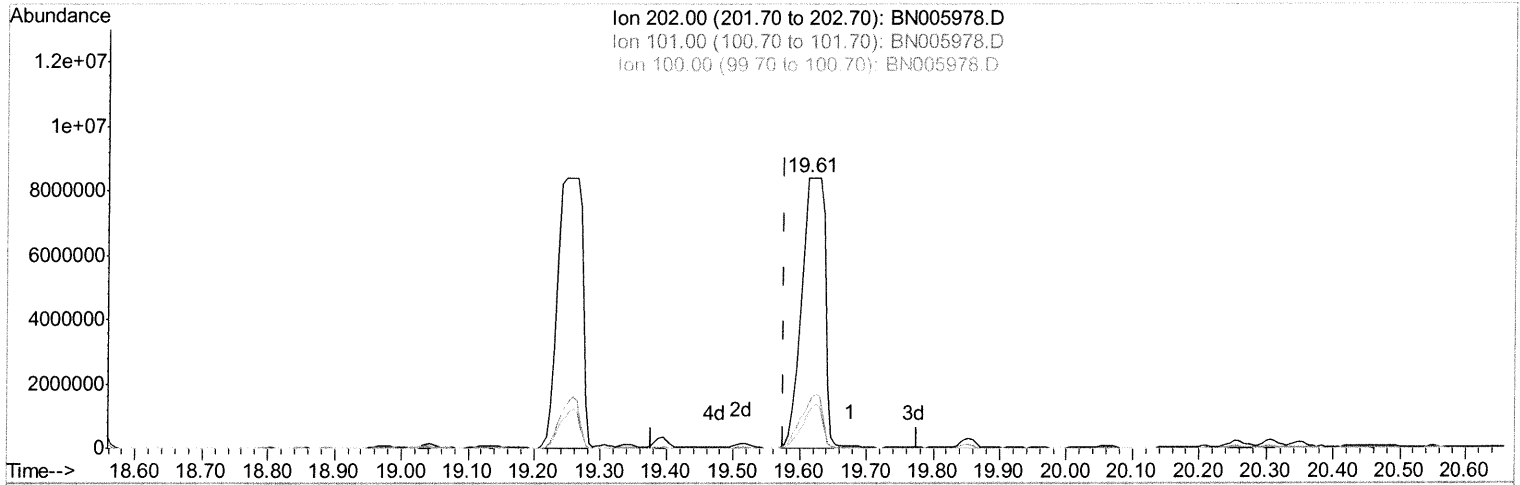
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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Manual Integrations
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TIC: BN005978.D

(79) Pyrene

19.612min (+0.035) 274.47ng/ul m

JU
 06/04/19

response 20584363

Ion	Exp%	Act%
202.00	100	100
101.00	12.90	15.55#
100.00	9.90	12.41#
0.00	0.00	0.00

Quantitation Report (Qedit)

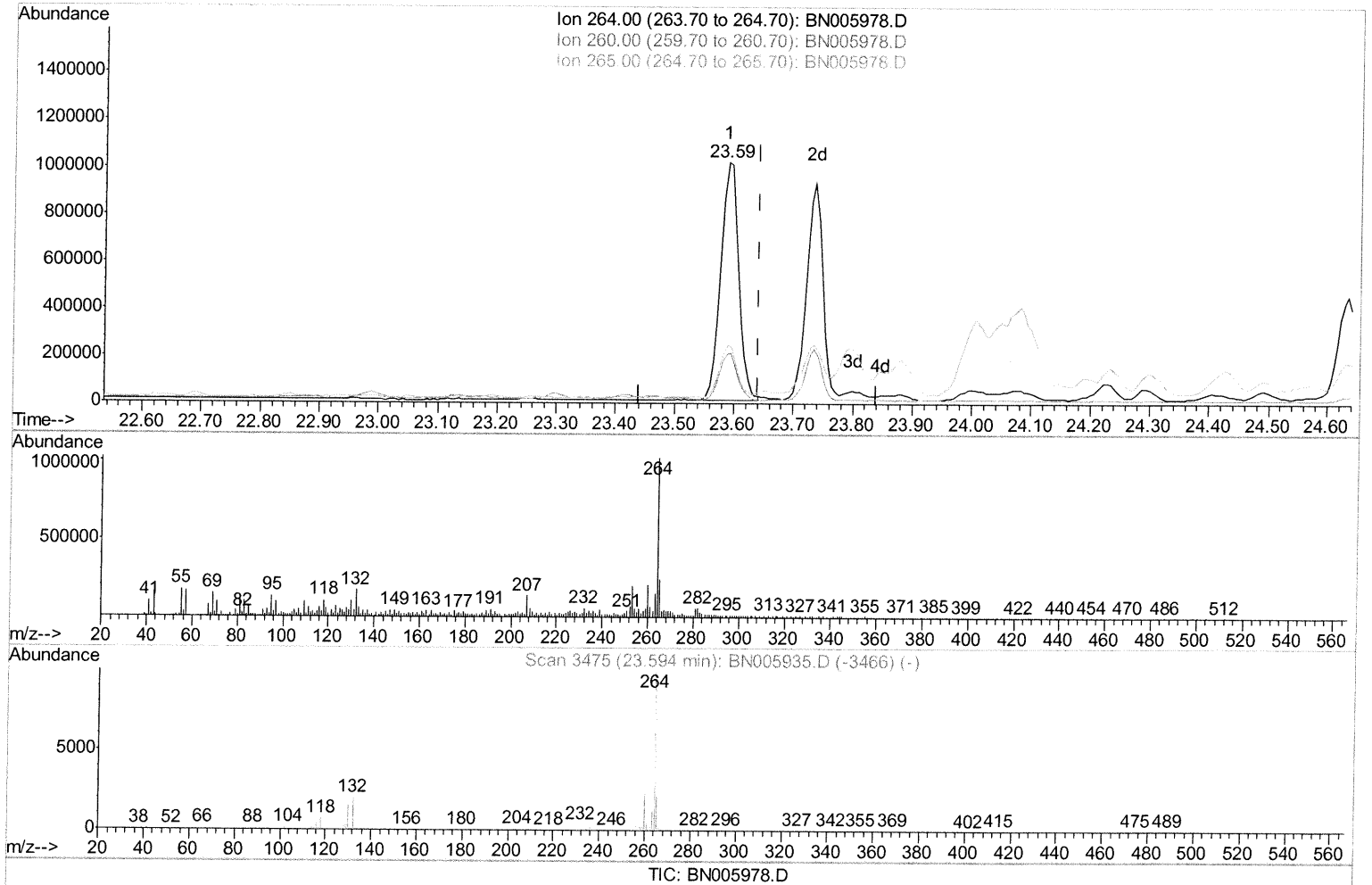
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A42B8

Manual Integrations
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(85) Perylene-d12 (I)

23.588min (-0.053) 20.00ng/ul

response 2119858

Ion	Exp%	Act%
264.00	100	100
260.00	23.50	20.63
265.00	22.10	24.28
0.00	0.00	0.00

Quantitation Report (Qedit)

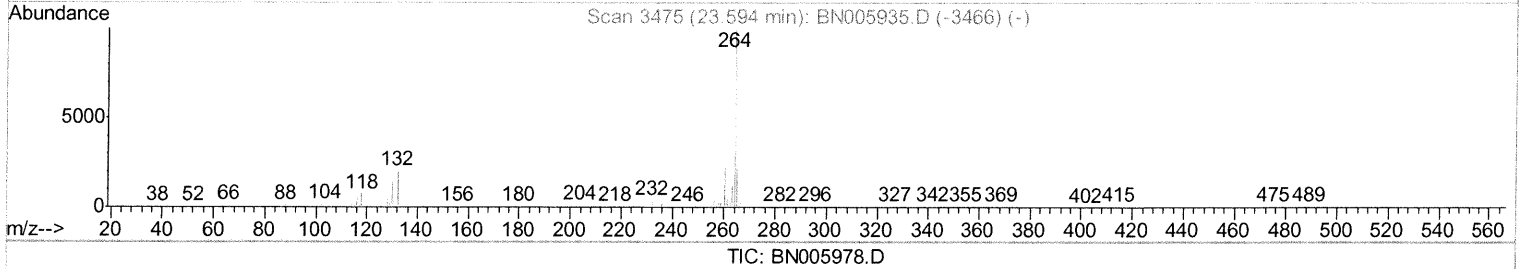
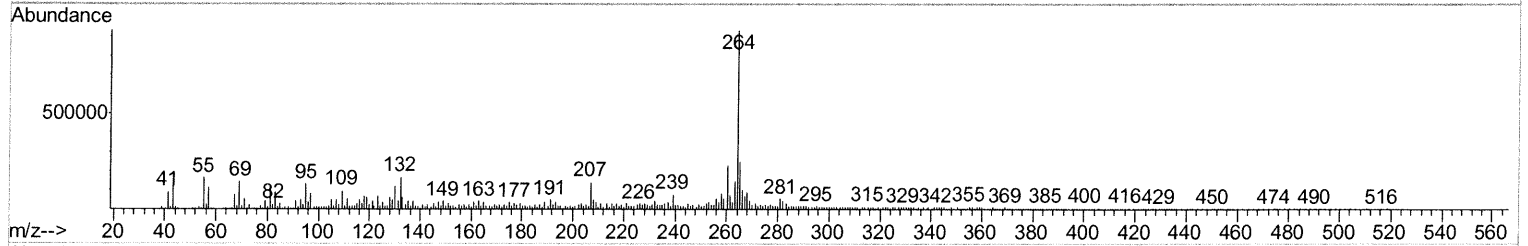
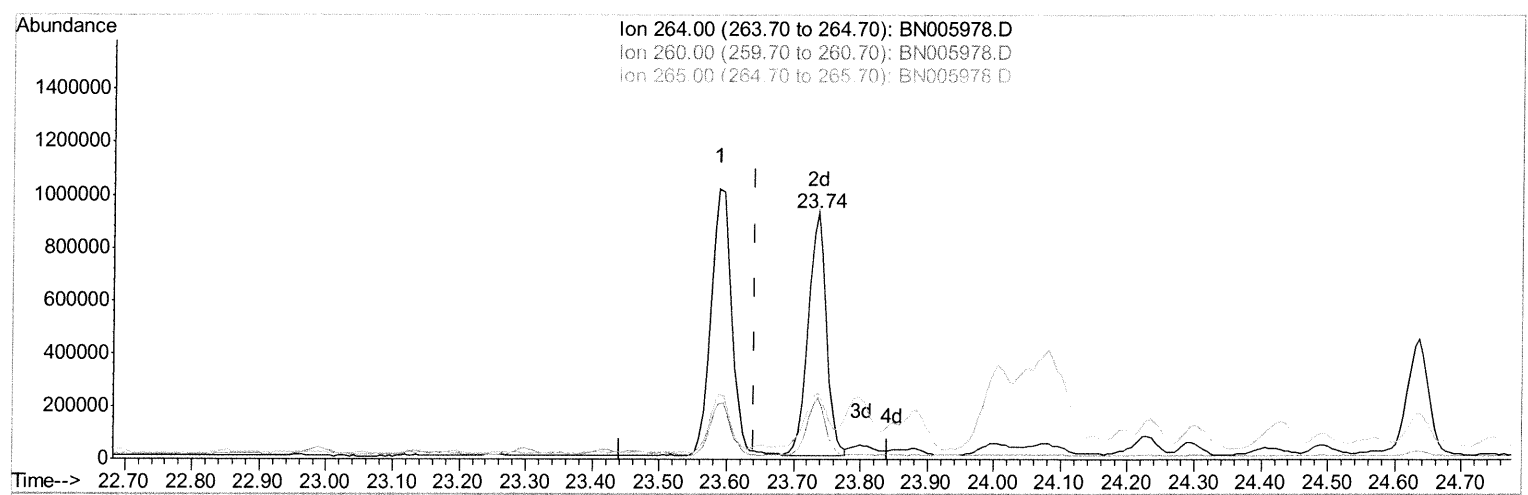
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A42B8

Manual Integrations
 APPROVED

mohammad
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 QLast Update : Fri May 31 14:10:13 2019
 Response via : Initial Calibration



(85) Perylene-d12 (I)

23.735min (+0.094) 20.00ng/ul m

JU
 06/04/19

response 1731537

Ion	Exp%	Act%
264.00	100	100
260.00	23.50	24.83
265.00	22.10	26.80#
0.00	0.00	0.00

Quantitation Report (Qedit)

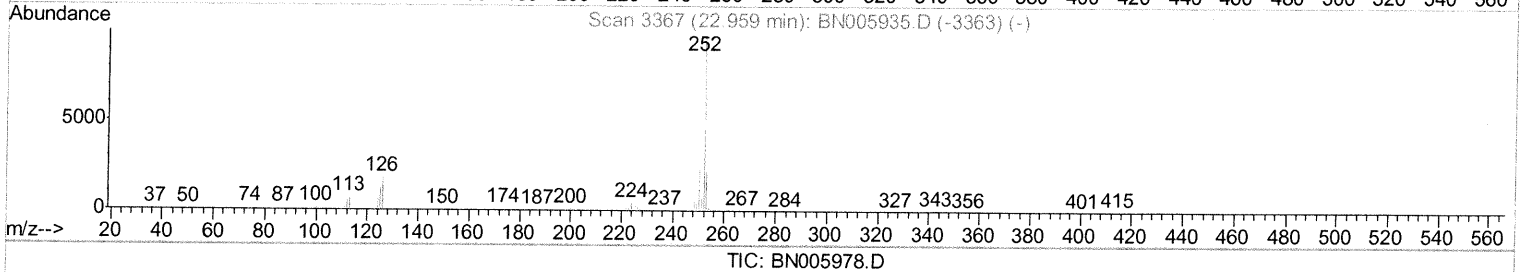
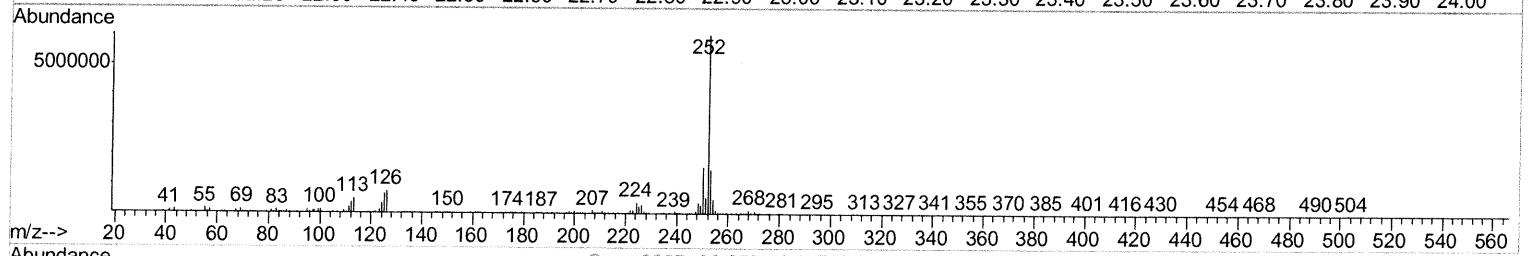
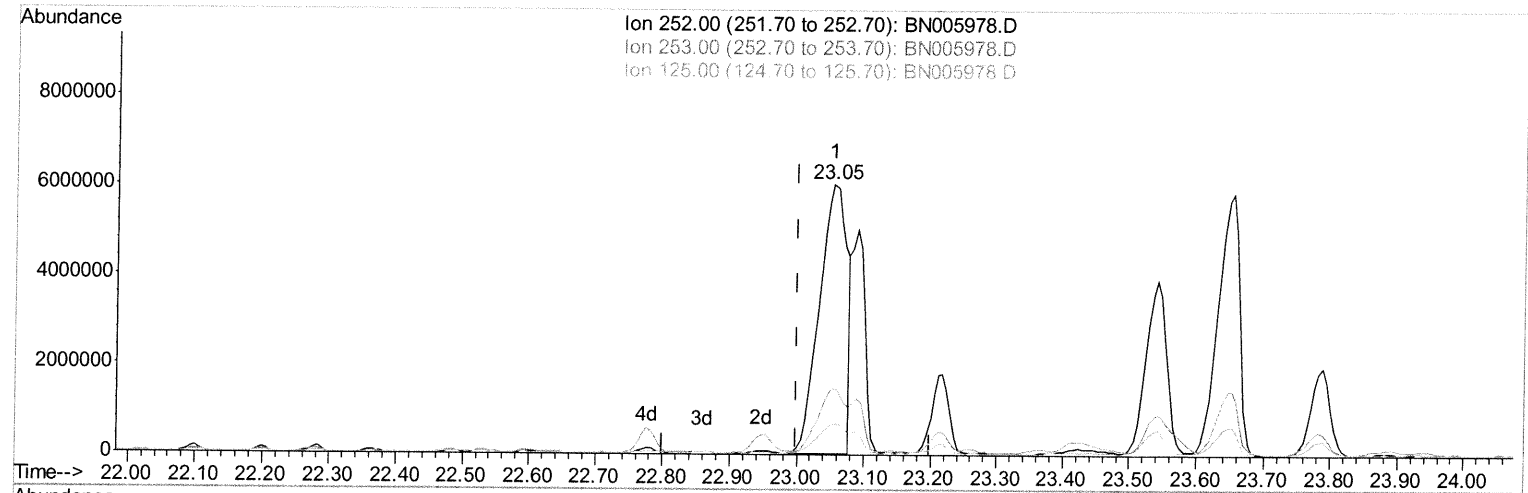
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A42B8

Manual Integrations
 APPROVED

mohammad
 6/5/2019 6:10:39 AM

Quant Time: May 31 14:21:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 31 14:10:13 2019
 Response via : Initial Calibration



(88) Benzo(k)fluoranthene
 23.053min (+0.053) 191.33ng/ul
 response 17108707

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	24.60
125.00	9.40	11.24
0.00	0.00	0.00

Quantitation Report (Qedit)

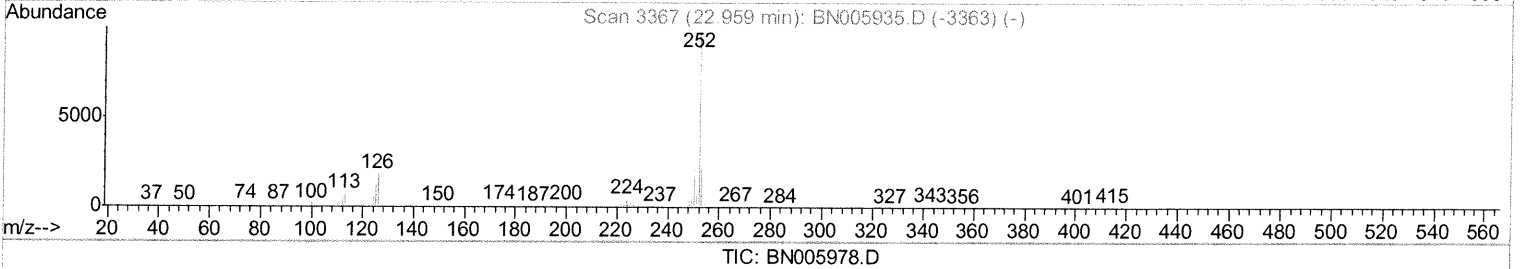
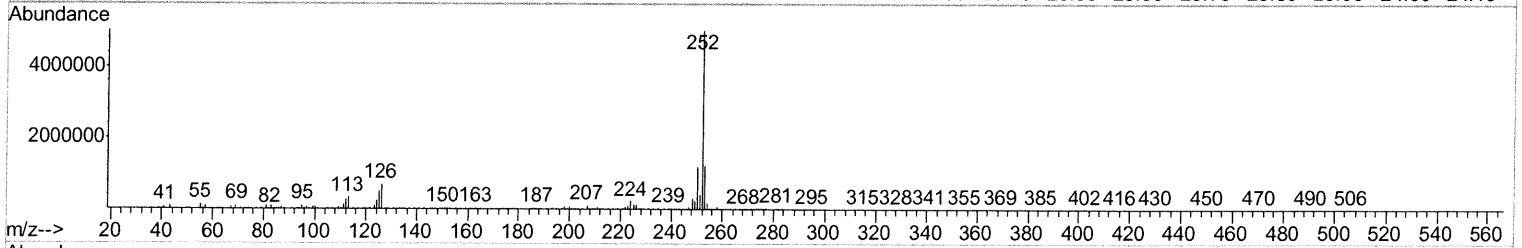
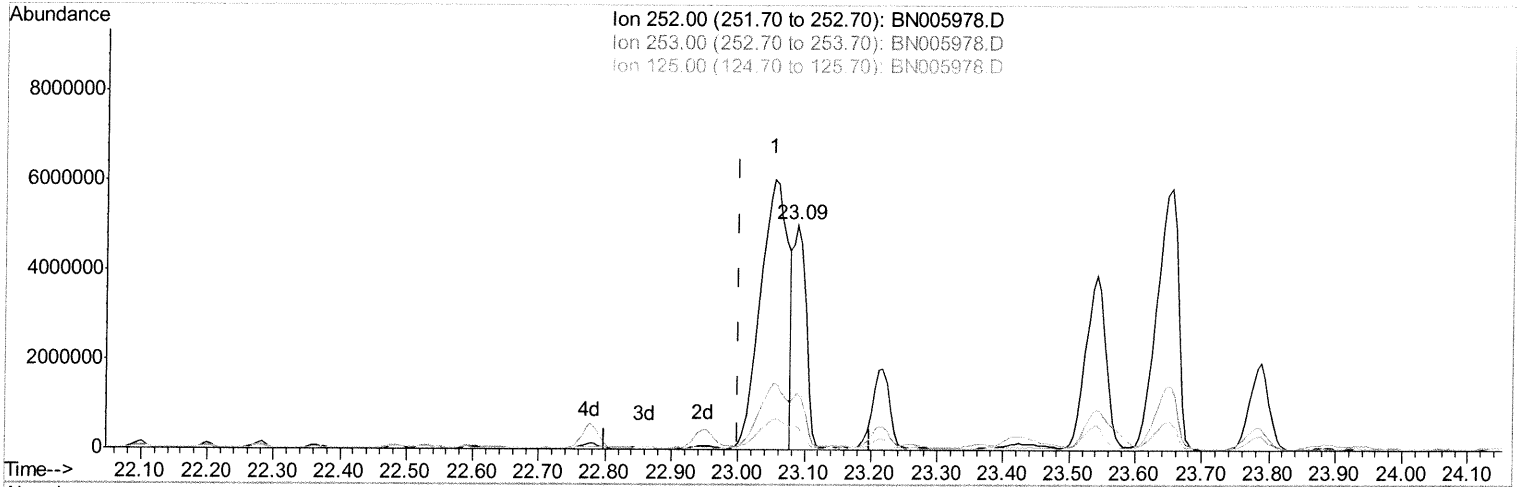
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
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 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
 6/5/2019 6:10:39 AM

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 Response via : Initial Calibration



(88) Benzo(k)fluoranthene

23.088min (+0.088) 76.59ng/ul m *JU 06/04/19*

response 6849068

Ion	Exp%	Act%
252.00	100	100
253.00	21.70	24.88
125.00	9.40	10.28
0.00	0.00	0.00

Quantitation Report (Qedit)

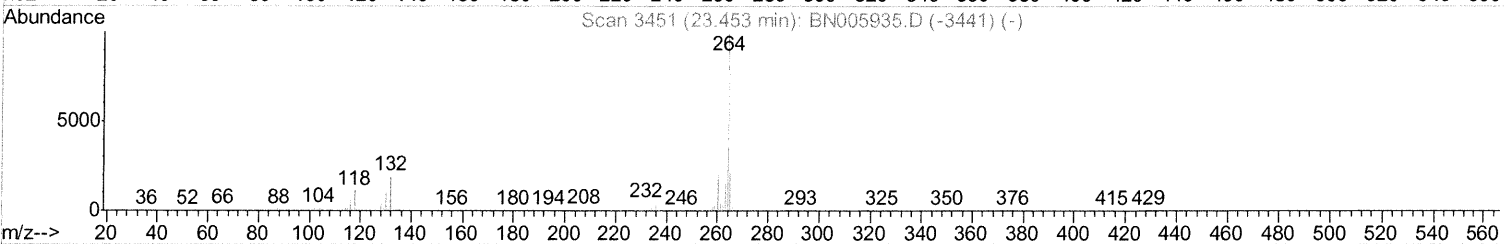
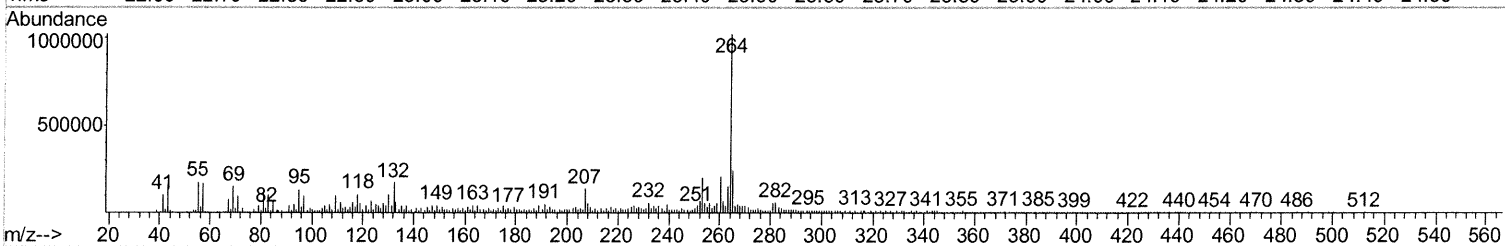
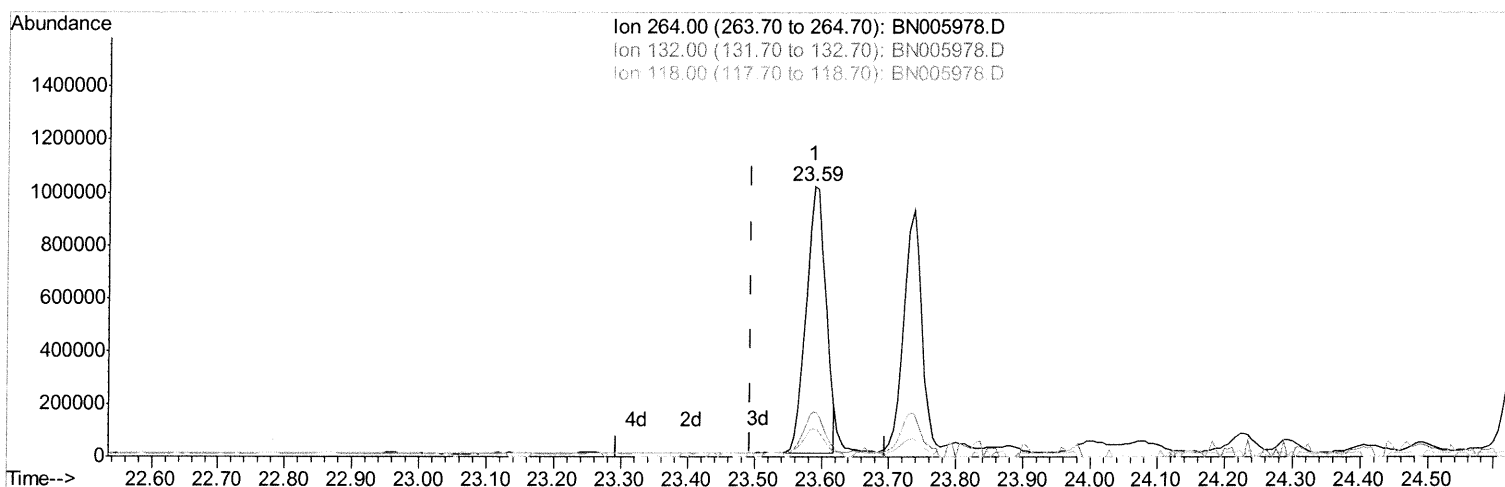
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
Data File : BN005979.D
Acq On : 31 May 2019 13:17
Operator : JU/SJ
Sample : K2928-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
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Manual Integrations
APPROVED

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TIC: BN005978.D

(89) Benzo(a)pyrene-d12 (S)

23.588min (+0.094) 26.73ng/ul

response 2065274

Ion	Exp%	Act%
264.00	100	100
132.00	16.60	16.92
118.00	10.40	10.49
0.00	0.00	0.00

Quantitation Report (Qedit)

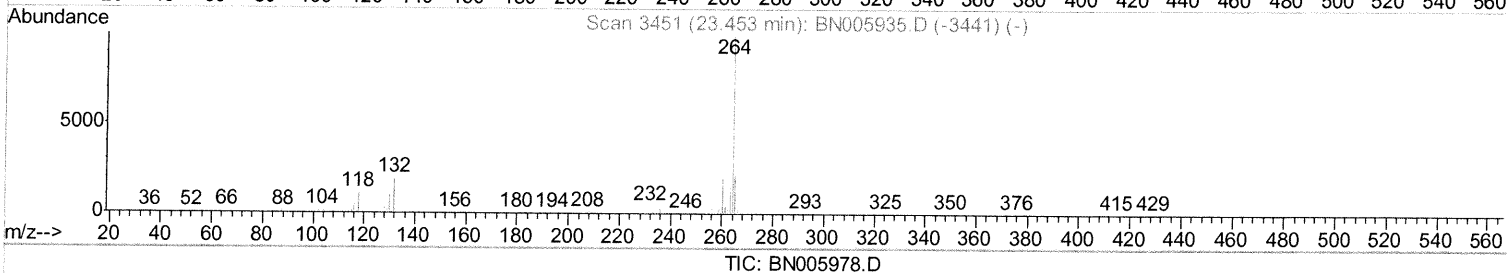
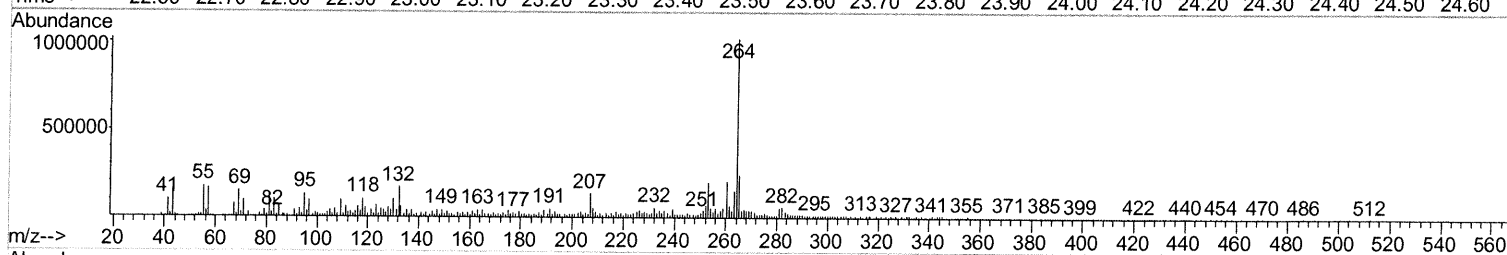
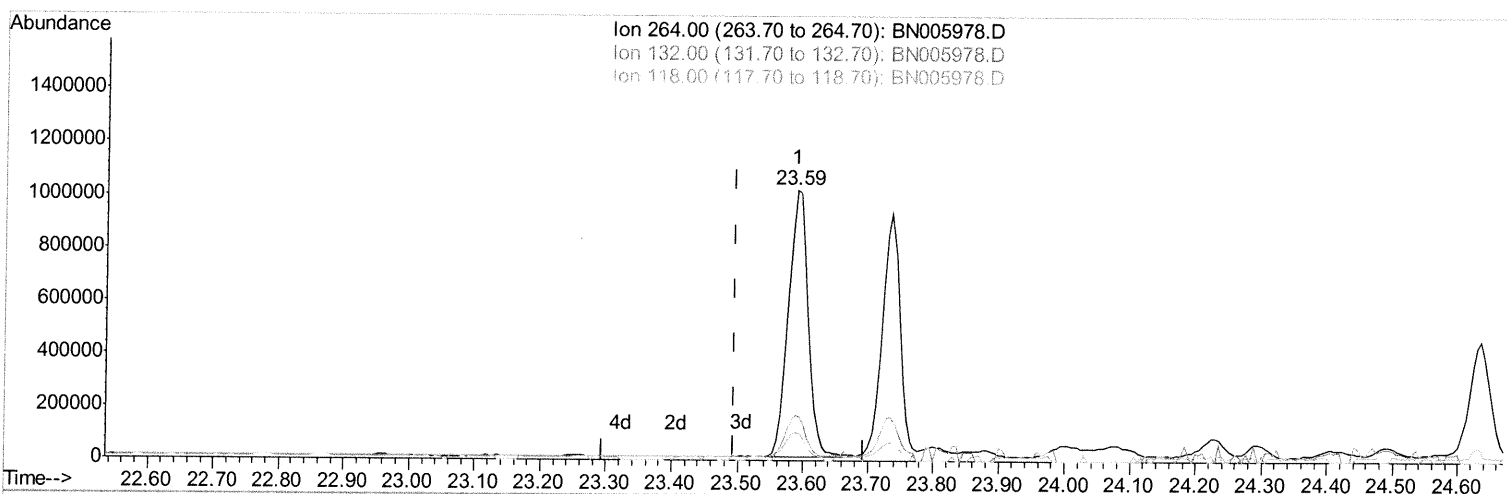
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampled :
 A42B8

Manual Integrations
 APPROVED

mohammad
 6/5/2019 6:10:39 AM

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 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 31 14:10:13 2019
 Response via : Initial Calibration



TIC: BN005978.D

(89) Benzo(a)pyrene-d12 (S)

23.588min (+0.094) 27.91ng/ul m *JU*
06/04/19

response 2156462

Ion	Exp%	Act%
264.00	100	100
132.00	16.60	16.92
118.00	10.40	10.49
0.00	0.00	0.00

Quantitation Report (Qedit)

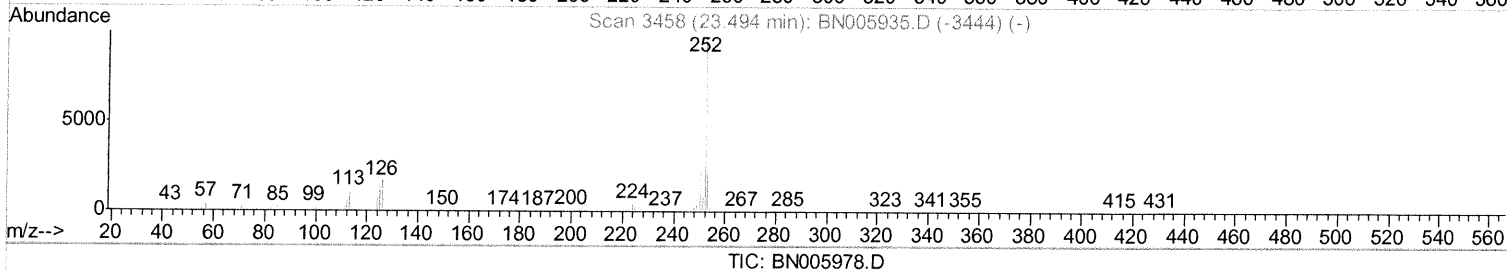
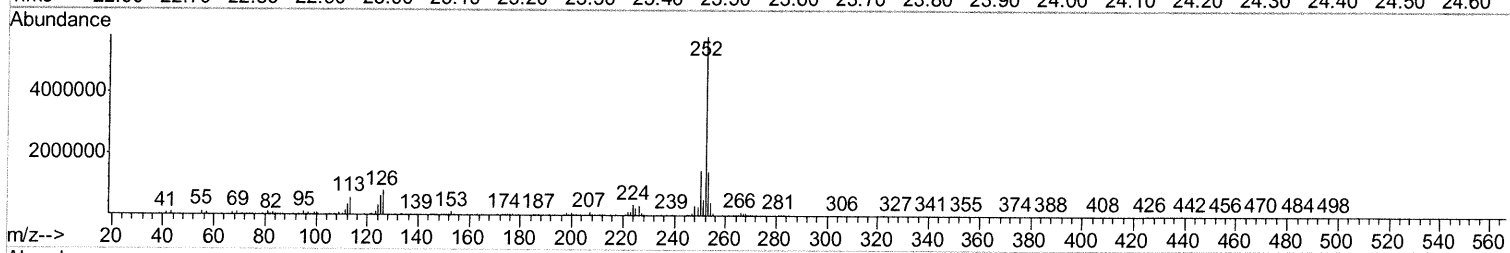
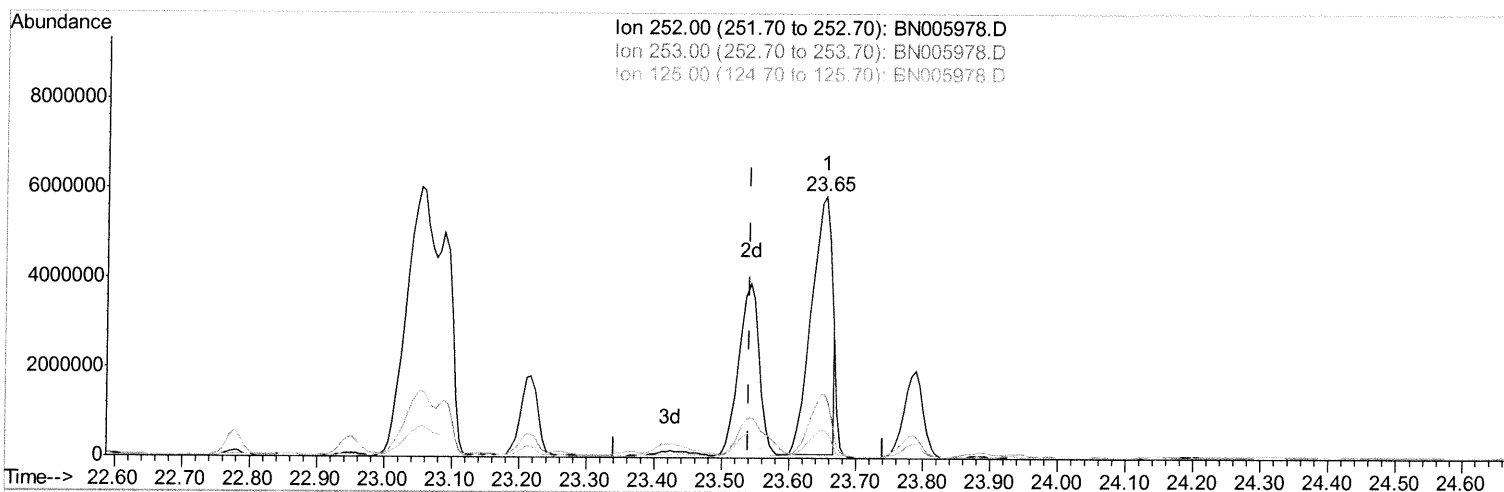
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 Misc :
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(90) Benzo(a)pyrene (C)

23.653min (+0.112) 134.50ng/ul

response 12335607

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	24.62
125.00	10.80	10.76
0.00	0.00	0.00

Quantitation Report (Qedit)

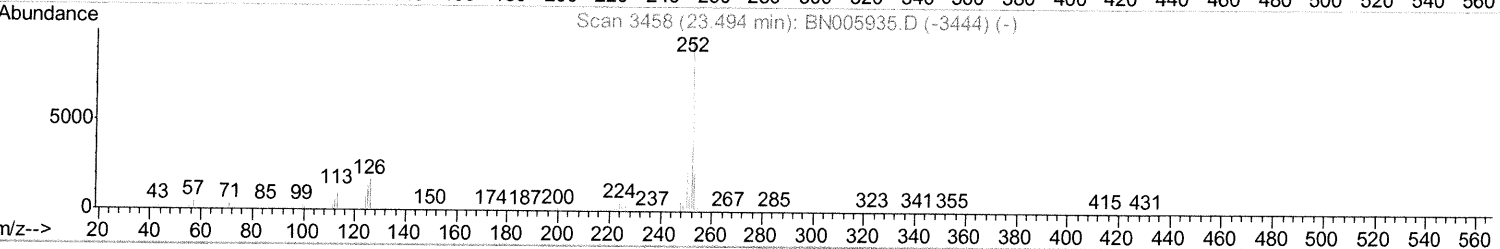
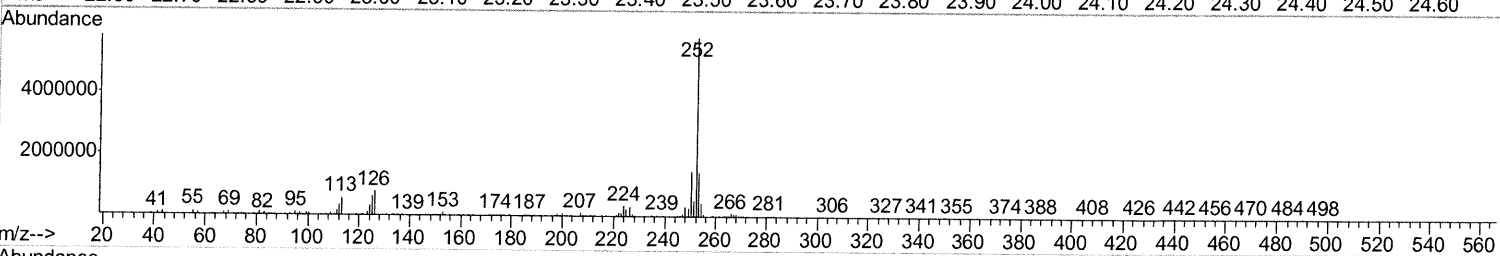
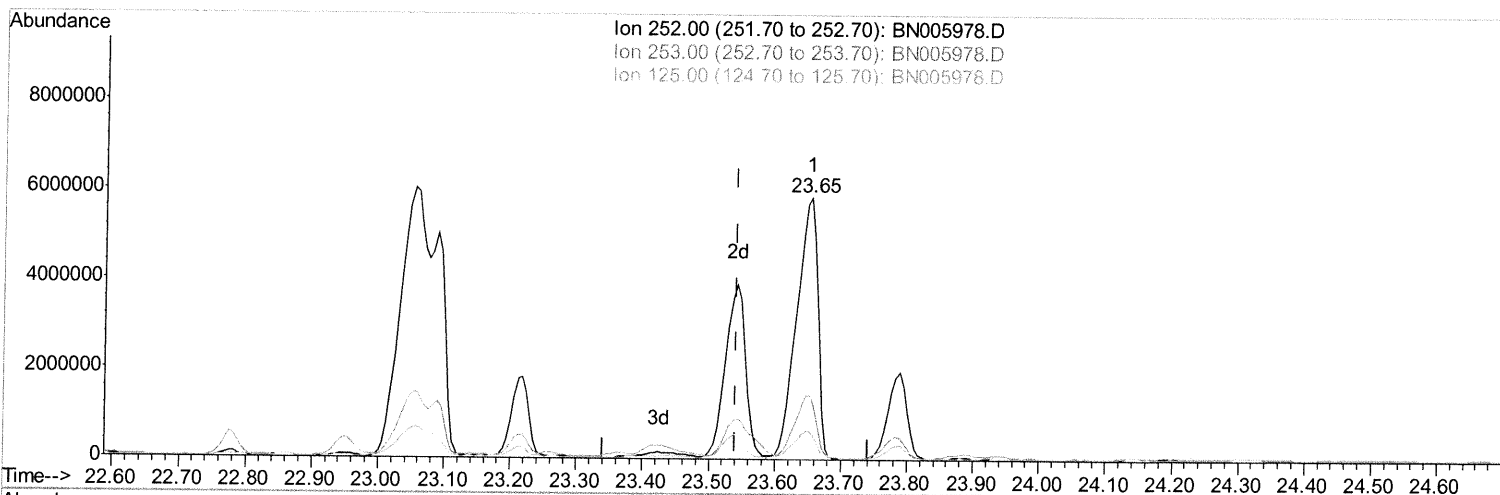
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TIC: BN005978.D

(90) Benzo(a)pyrene (C)

23.653min (+0.112) 143.61ng/ul m

JU
 06/04/19

response 13171488

Ion	Exp%	Act%
252.00	100	100
253.00	21.60	24.62
125.00	10.80	10.76
0.00	0.00	0.00

Quantitation Report (Qedit)

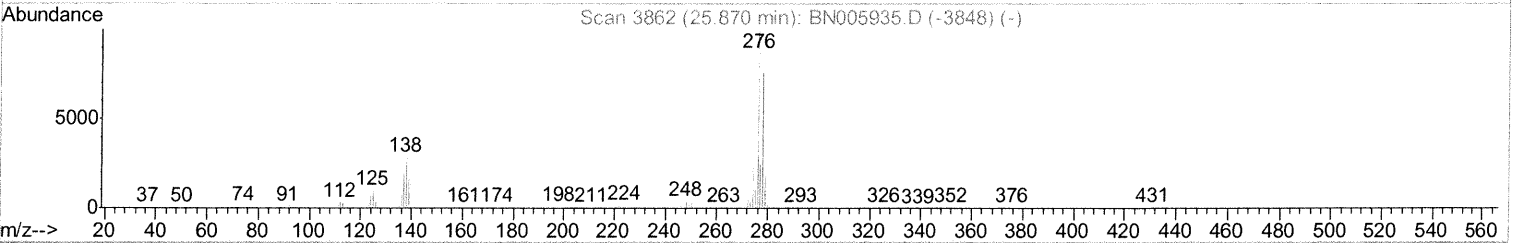
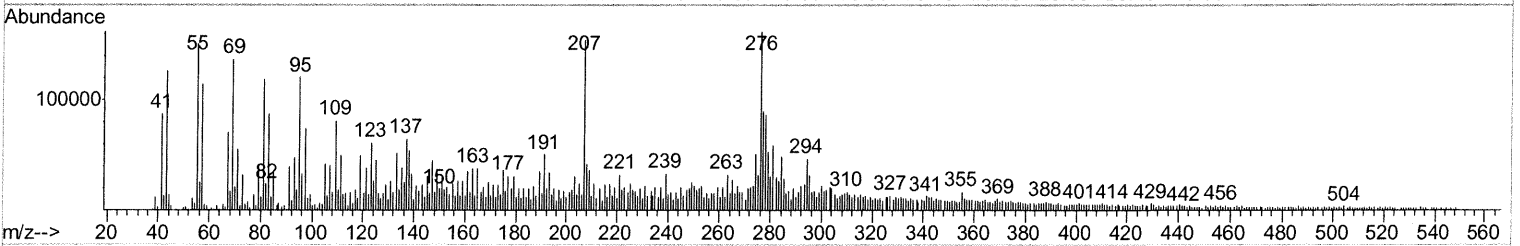
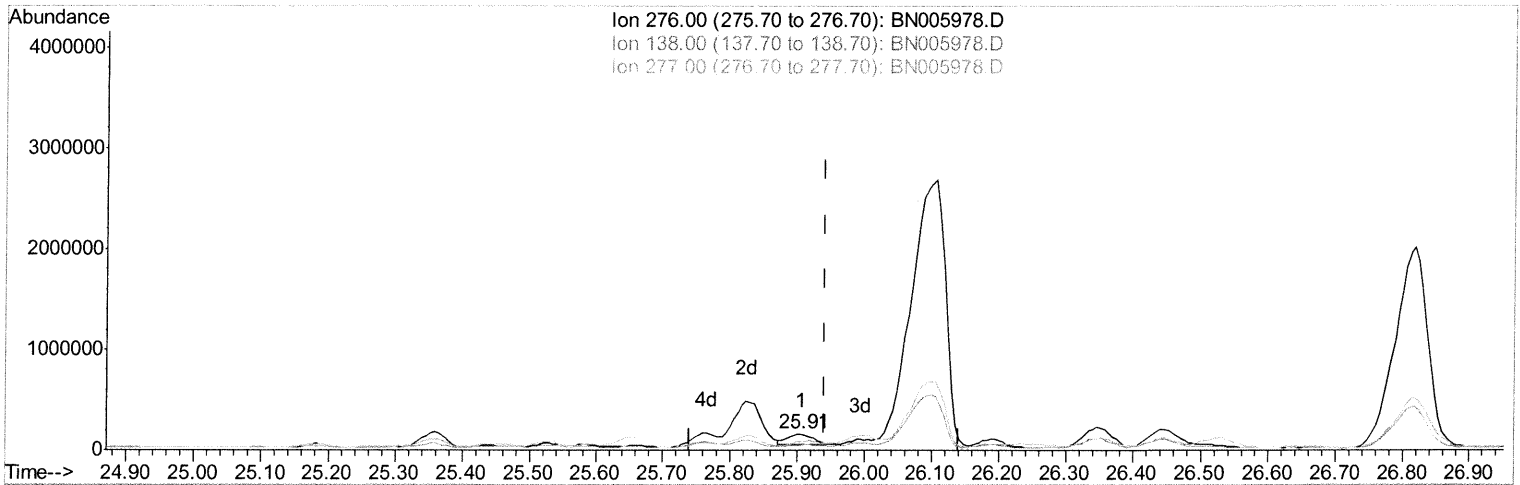
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A42B8

Manual Integrations
 APPROVED

mohammad
 6/5/2019 6:10:39 AM

Quant Time: May 31 14:21:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 31 14:10:13 2019
 Response via : Initial Calibration



TIC: BN005978.D

(91) Indeno(1,2,3-cd)pyrene

25.906min (-0.035) 2.63ng/ul

response 283255

Ion	Exp%	Act%
276.00	100	100
138.00	22.40	33.75#
277.00	24.60	55.57#
0.00	0.00	0.00

Quantitation Report (Qedit)

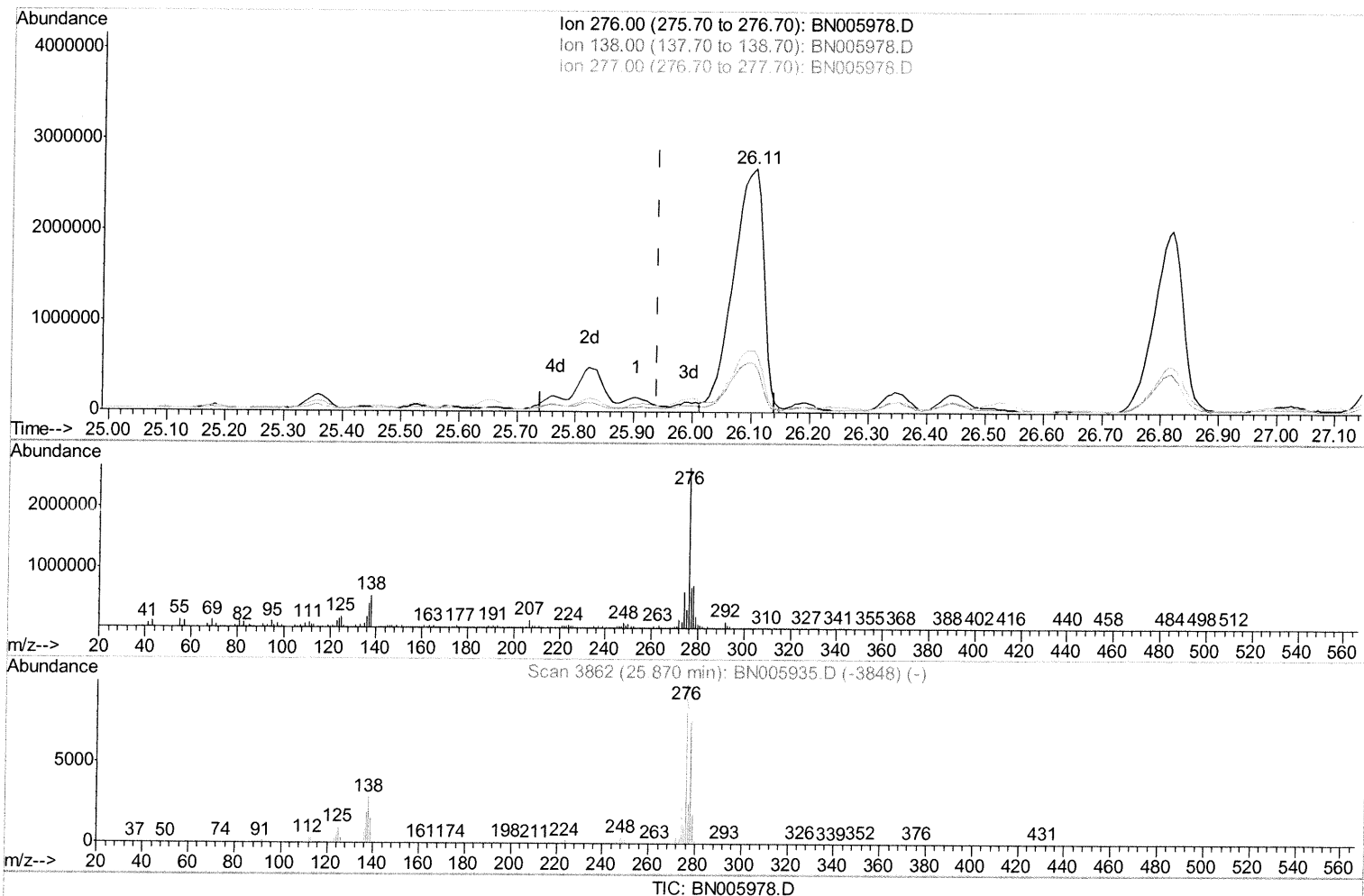
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 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
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Manual Integrations
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mohammad
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 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 31 14:10:13 2019
 Response via : Initial Calibration



(91) Indeno(1,2,3-cd)pyrene

26.106min (+0.165) 90.39ng/ul m

response 9727610

Ion	Exp%	Act%
276.00	100	100
138.00	22.40	20.00
277.00	24.60	25.38
0.00	0.00	0.00

JU
 06/04/19

Quantitation Report (Qedit)

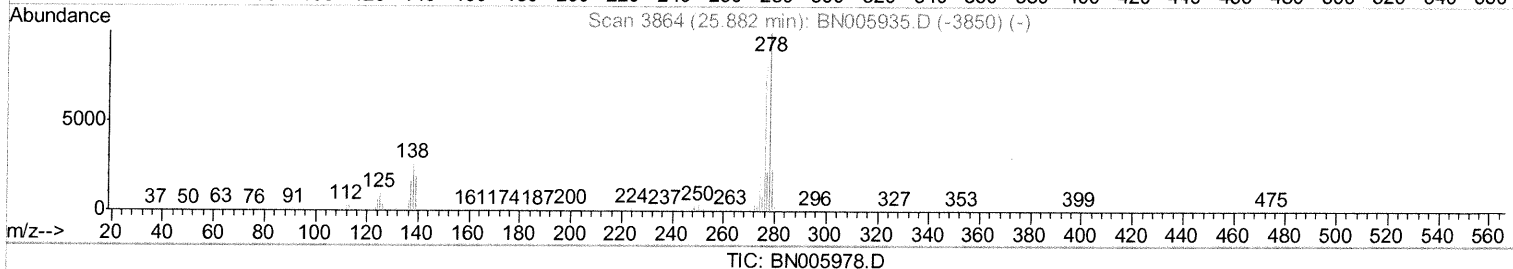
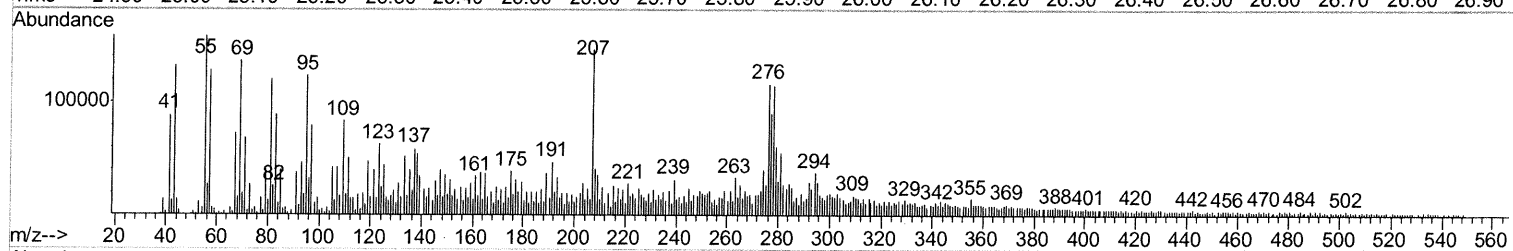
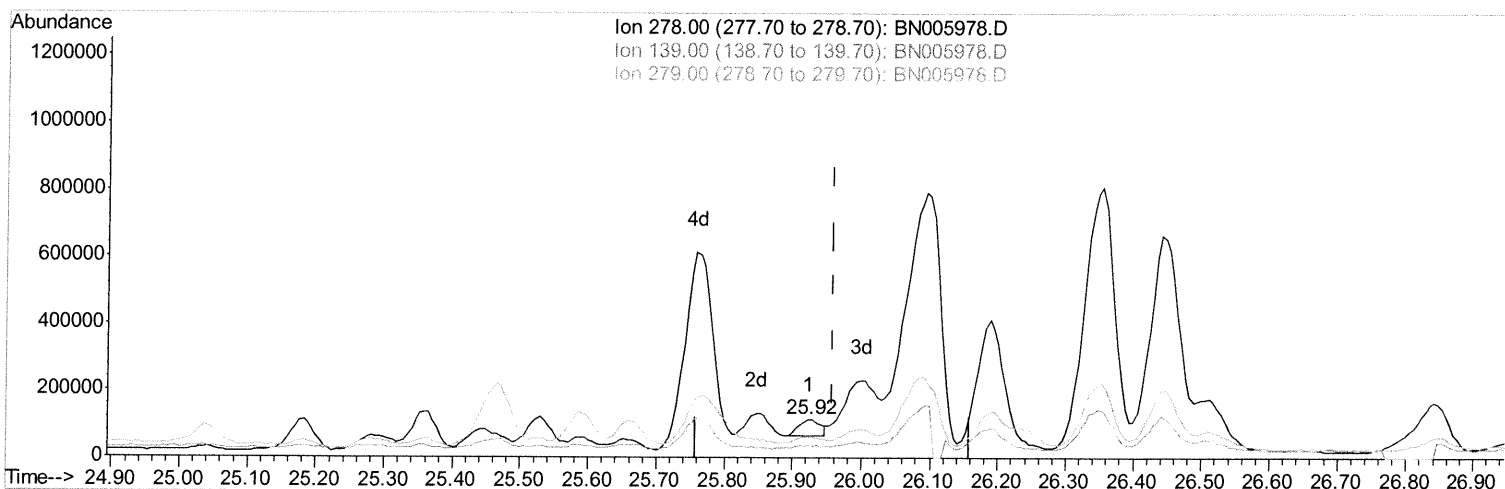
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
Data File : BN005979.D
Acq On : 31 May 2019 13:17
Operator : JU/SJ
Sample : K2928-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A42B8

Manual Integrations
APPROVED

mohammad
6/5/2019 6:10:39 AM

Quant Time: May 31 14:21:46 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri May 31 14:10:13 2019
Response via : Initial Calibration



(92) Dibenzo(a,h)anthracene

25.923min (-0.035) 1.13ng/ul

response 101513

Ion	Exp%	Act%
278.00	100	100
139.00	16.40	30.71#
279.00	24.20	53.04#
0.00	0.00	0.00

Quantitation Report (Qedit)

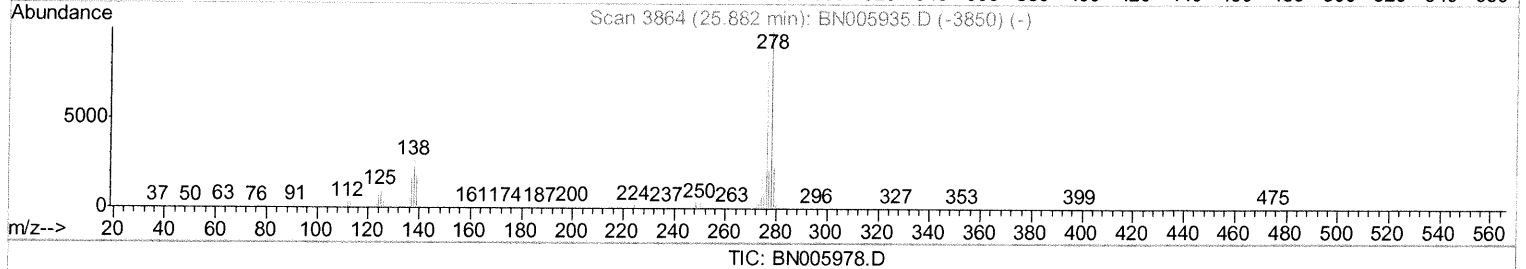
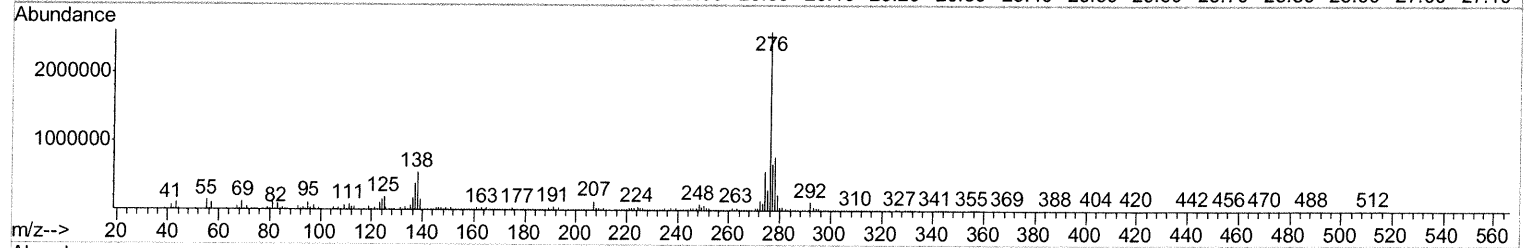
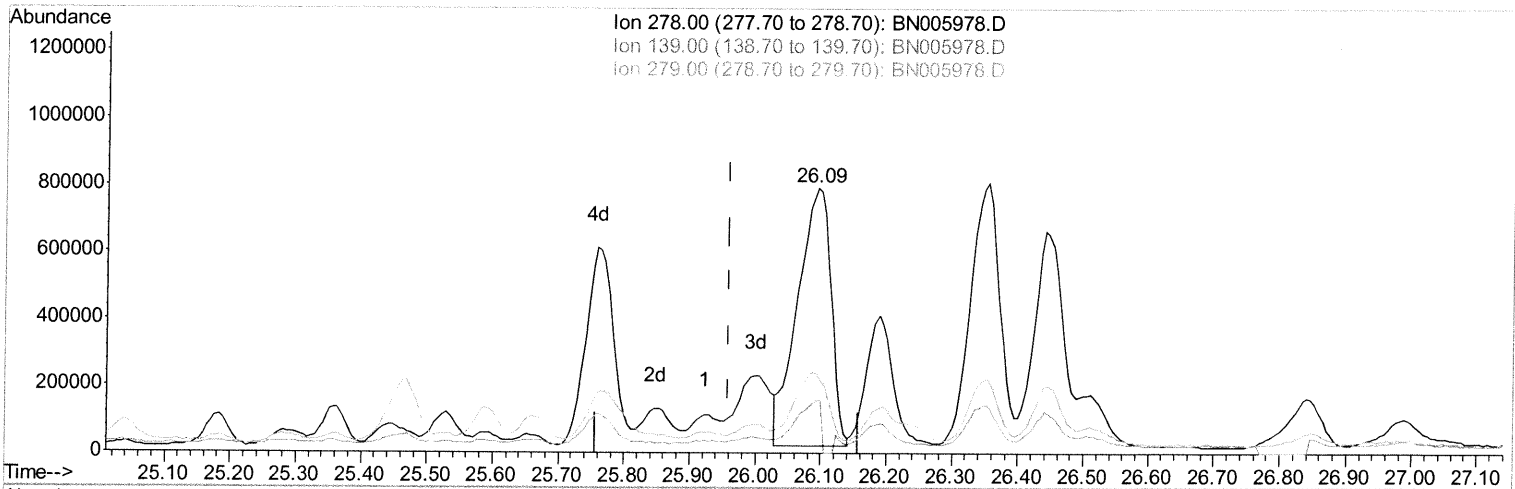
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A42B8

Manual Integrations
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mohammad
 6/5/2019 6:10:39 AM

Quant Time: May 31 14:21:46 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 31 14:10:13 2019
 Response via : Initial Calibration



(92) Dibenzo(a,h)anthracene

26.094min (+0.135) 30.46ng/ul m *JU 06/04/19*

response 2729254

Ion	Exp%	Act%
278.00	100	100
139.00	16.40	19.98#
279.00	24.20	29.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

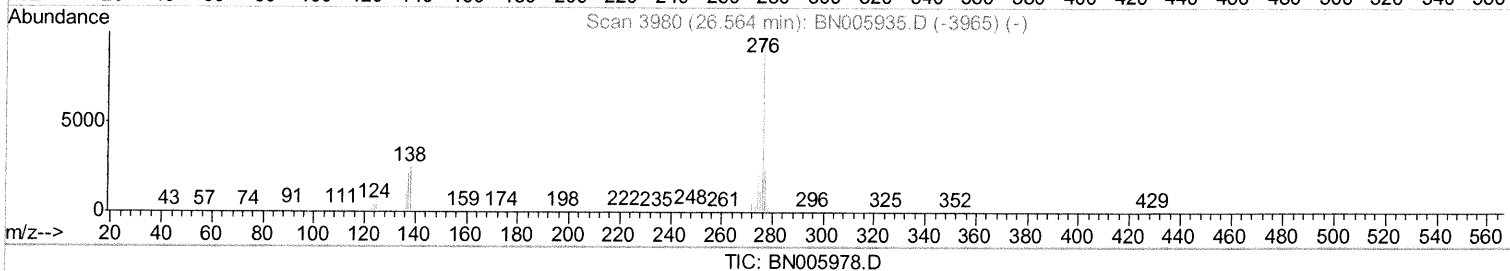
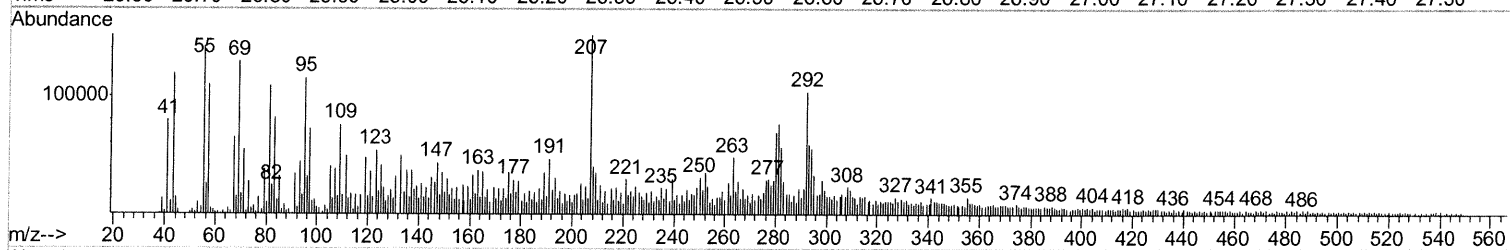
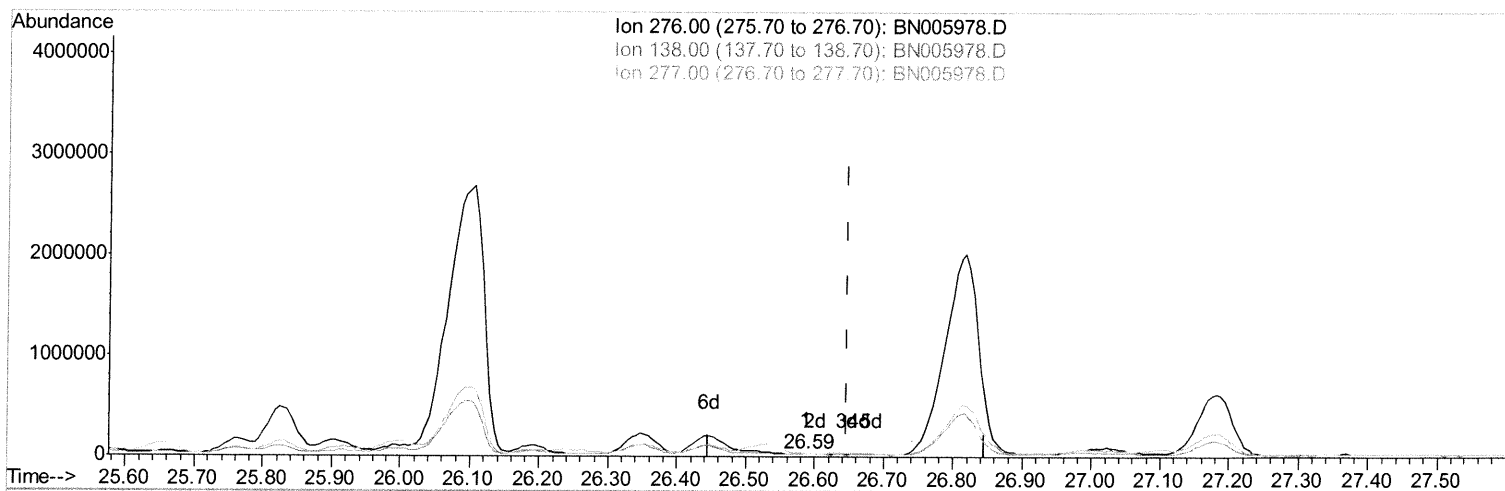
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
Data File : BN005979.D
Acq On : 31 May 2019 13:17
Operator : JU/SJ
Sample : K2928-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A42B8

Manual Integrations
APPROVED

mohammad
6/5/2019 6:10:39 AM

Quant Time: May 31 14:21:46 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Fri May 31 14:10:13 2019
Response via : Initial Calibration



(93) Benzo(g,h,i)perylene

26.588min (-0.059) 0.02ng/ul

response 2043

Ion	Exp%	Act%
276.00	100	100
138.00	20.90	71.49#
277.00	22.70	102.29#
0.00	0.00	0.00

Quantitation Report (Qedit)

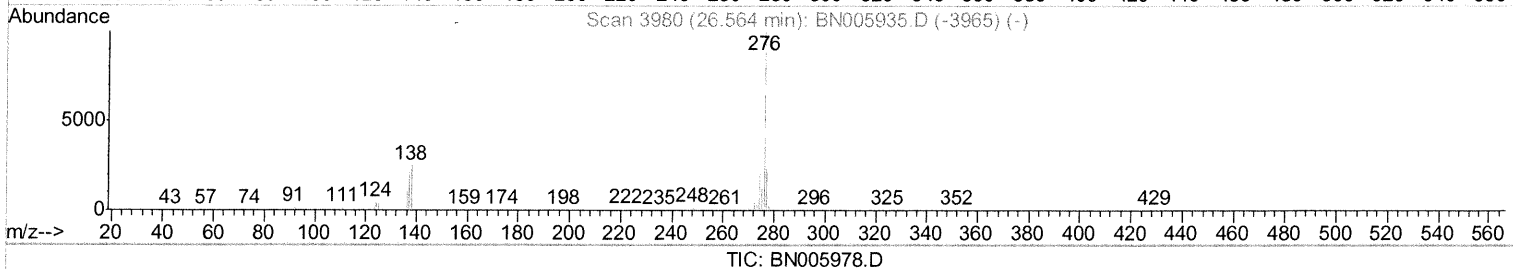
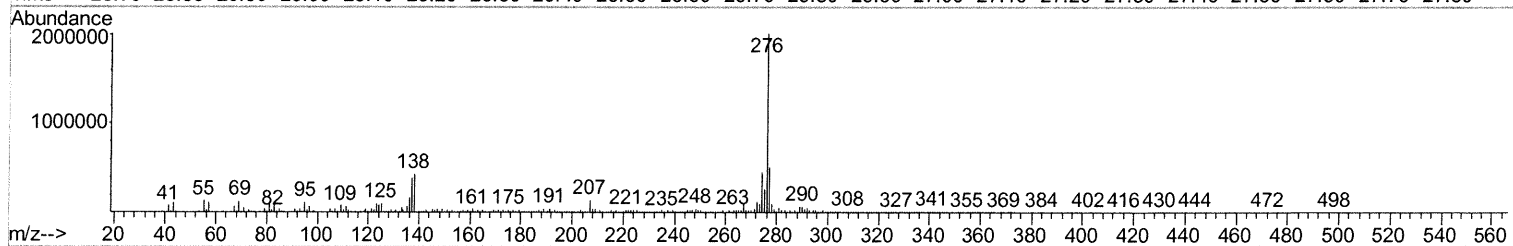
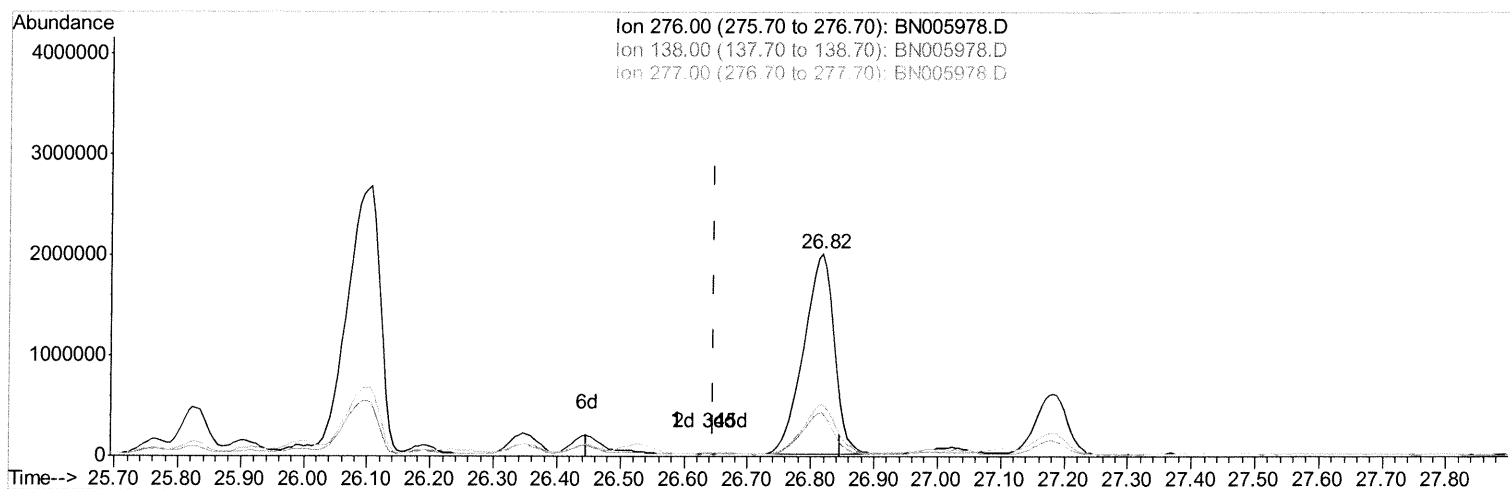
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
Data File : BN005979.D
Acq On : 31 May 2019 13:17
Operator : JU/SJ
Sample : K2928-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
A42B8

Manual Integrations
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Quant Time: May 31 14:21:46 2019
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Quant Title : SVOA CALIBRATION
QLast Update : Fri May 31 14:10:13 2019
Response via : Initial Calibration



(93) Benzo(g,h,i)perylene

26.817min (+0.171) 74.83ng/ul m

JU
06/04/19

response 6782405

Ion	Exp%	Act%
276.00	100	100
138.00	20.90	21.60
277.00	22.70	25.40
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN053119\
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 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A42B8

Manual Integrations
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 6/5/2019 6:10:39 AM

Quant Time: May 31 14:26:15 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Fri May 31 14:10:13 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	528312	20.00	ng/ul	0.01
18) Naphthalene-d8	10.54	136	1943174	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.41	164	898516	20.00	ng/ul	0.02
61) Phenanthrene-d10	17.16	188	1727445	20.00	ng/ul	0.02
77) Chrysene-d12	21.41	240	1183905	20.00	ng/ul	0.05
85) Perylene-d12	23.74	264	1731537m >	20.00	ng/ul	0.09

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.26	96	63484	5.29	ng/uL	0.00
5) Phenol-d5	6.92	99	1134175	24.22	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.08	67	674010	25.23	ng/ul	0.01
9) 2-Chlorophenol-d4	7.28	132	932049	26.13	ng/ul	0.01
13) 4-Methylphenol-d8	8.45	113	810013	21.43	ng/ul	0.02
19) Nitrobenzene-d5	8.90	128	420106	33.68	ng/ul	0.01
22) 2-Nitrophenol-d4	9.62	143	412447	35.51	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	10.16	165	757172	27.61	ng/ul	0.02
29) 4-Chloroaniline-d4	10.68	131	435608	12.11	ng/ul	0.02
43) Dimethylphthalate-d6	13.81	166	1875403	28.31	ng/ul	0.02
46) Acenaphthylene-d8	14.09	160	2401783	28.99	ng/ul	0.02
51) 4-Nitrophenol-d4	14.62	143	264169	21.91	ng/ul	0.03
57) Fluorene-d10	15.41	176	1738959	31.30	ng/ul	0.02
62) 4,6-Dinitro-2-methylphenol	15.55	200	40139	5.70	ng/ul	0.04
70) Anthracene-d10	17.27	188	2094747	28.49	ng/ul	0.04
78) Pyrene-d10	19.58	212	1935194	32.37	ng/ul	0.04
89) Benzo(a)pyrene-d12	23.59	264	2156462m >	27.91	ng/ul	0.09

Target Compounds

					Qvalue
6) Phenol	6.94	94	76889	1.594	ng/ul 96
28) Naphthalene	10.59	128	1743301	18.903	ng/ul 99
34) 2-Methylnaphthalene	12.21	142	516669	7.605	ng/ul 98
40) 1,1'-Biphenyl	13.23	154	199504	2.994	ng/ul 99
44) Dimethylphthalate	13.86	163	696168	10.515	ng/ul 100
47) Acenaphthylene	14.12	152	513613	6.321	ng/ul# 96
49) Acenaphthene	14.47	153	1804751	32.696	ng/ul 99
53) Dibenzofuran	14.81	168	1615254	20.729	ng/ul 98
58) Fluorene	15.46	166	2494343	40.757	ng/ul 97
69) Phenanthrene	17.21	178	19134926m >	223.569	ng/ul
71) Anthracene	17.31	178	8403892	96.715	ng/ul 98
74) Carbazole	17.57	167	4265196	54.487	ng/ul 99
76) Fluoranthene	19.25	202	21692264m >	237.415	ng/ul
79) Pyrene	19.61	202	20584363m >	274.474	ng/ul
82) Benzo(a)anthracene	21.39	228	13828433	185.809	ng/ul 91
83) Bis(2-ethylhexyl)phthalate	21.31	149	112034	2.293	ng/ul# 82
84) Chrysene	21.45	228	12559094	180.936	ng/ul# 91
87) Benzo(b)fluoranthene	23.05	252	17108707	175.916	ng/ul 96
88) Benzo(k)fluoranthene	23.09	252	6849068m >	76.594	ng/ul
90) Benzo(a)pyrene	23.65	252	13171488m >	143.614	ng/ul
91) Indeno(1,2,3-cd)pyrene	26.11	276	9727610m >	90.390	ng/ul
92) Dibenzo(a,h)anthracene	26.09	278	2729254m >	30.460	ng/ul
93) Benzo(g,h,i)perylene	26.82	276	6782405m >	74.829	ng/ul

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QLast Update : Fri May 31 14:10:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed