

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050219\

Data File : BN005441.D

Acq On : 03 May 2019 06:31

Operator : JU/SJ

Sample : K2603-17 10X

Misc :

ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 06 06:57:58 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Fri May 03 03:02:31 2019

Response via : Initial Calibration

Instrument :

BNA\_N

Client Sampled :

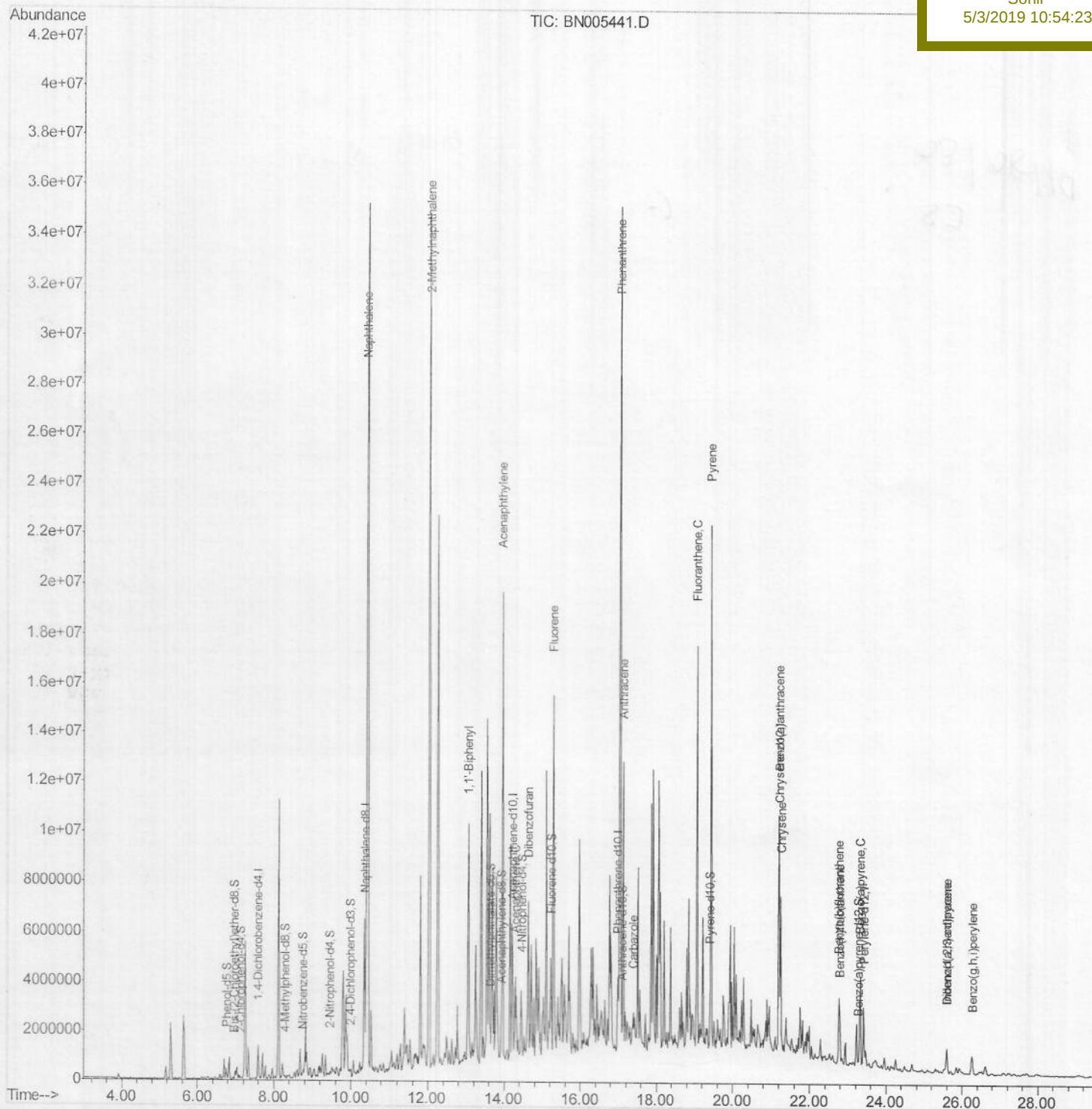
GAJ69

Manual Integrations

APPROVED

Sohil

5/3/2019 10:54:23 PM



# Quantitation Report (Qedit)

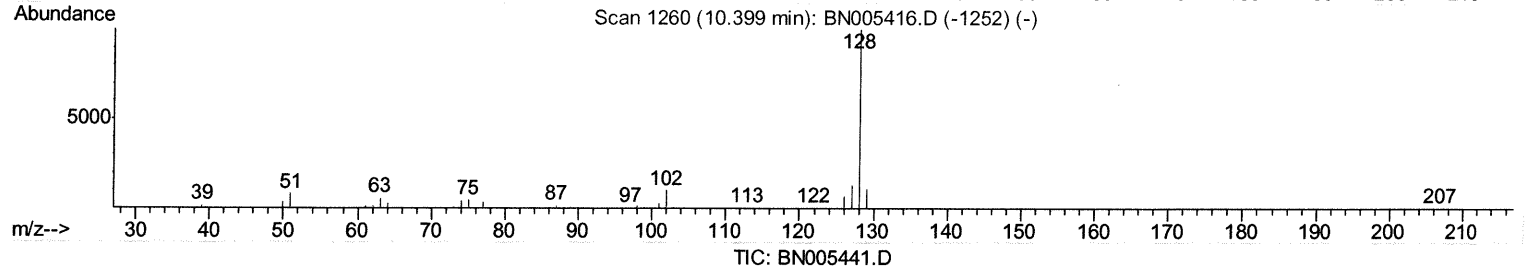
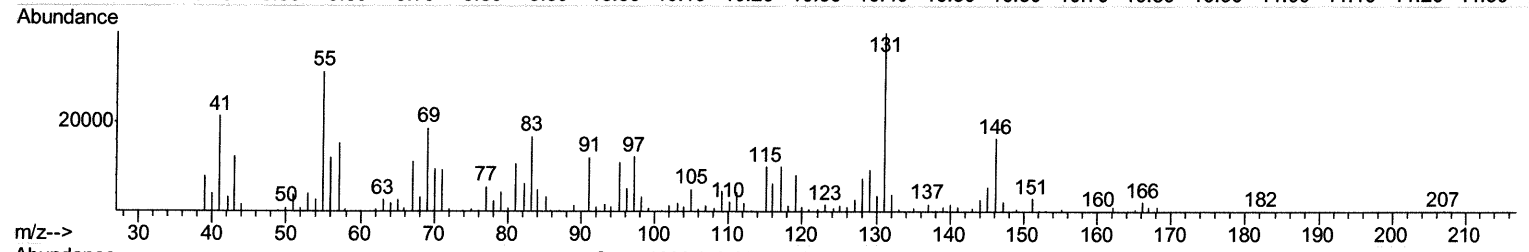
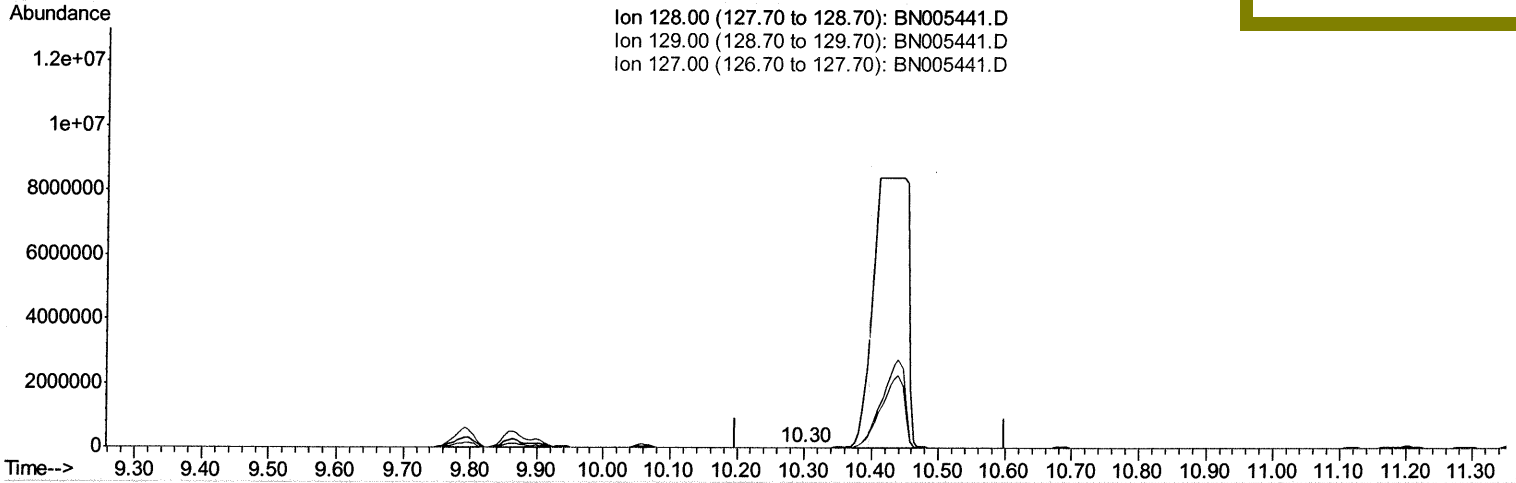
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

**Instrument :**  
 BNA\_N  
**ClientSampleId :**  
 GAJ69

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration

**Manual Integrations**  
**APPROVED**

Sohil  
 5/3/2019 10:54:23 PM



(28) Naphthalene

10.299min (-0.100) 0.18ng/ul

response 13123

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 128.00 | 100   | 100     |
| 129.00 | 11.50 | 123.24# |
| 127.00 | 13.40 | 38.19#  |
| 0.00   | 0.00  | 0.00    |

# Quantitation Report (Qedit)

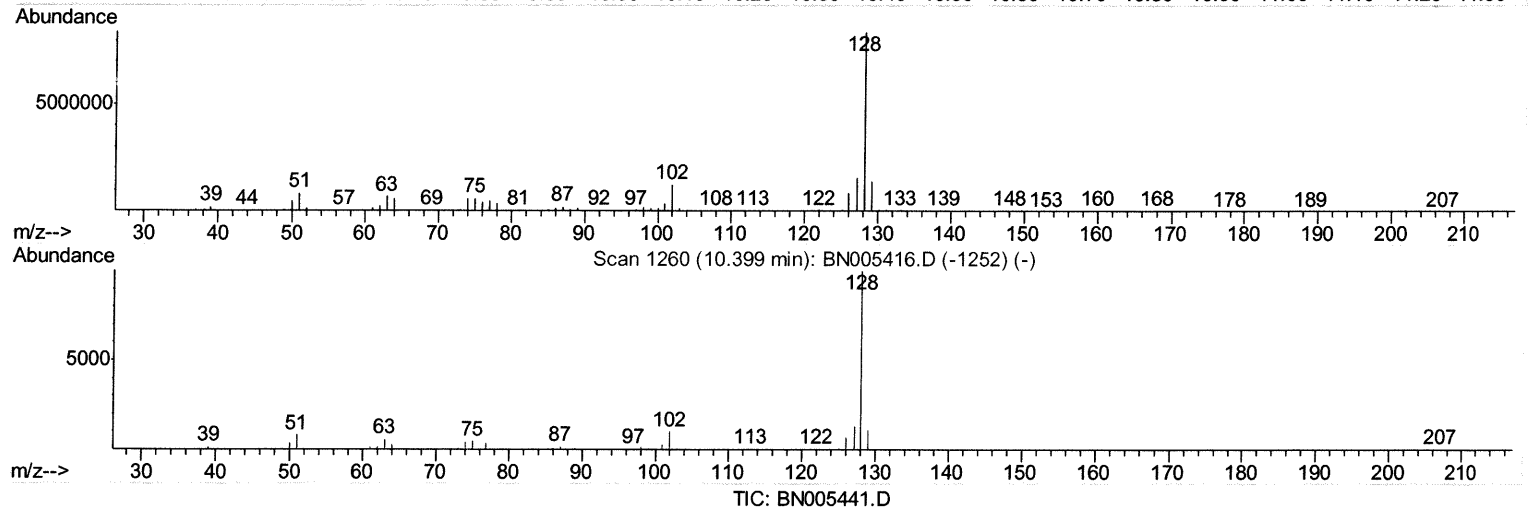
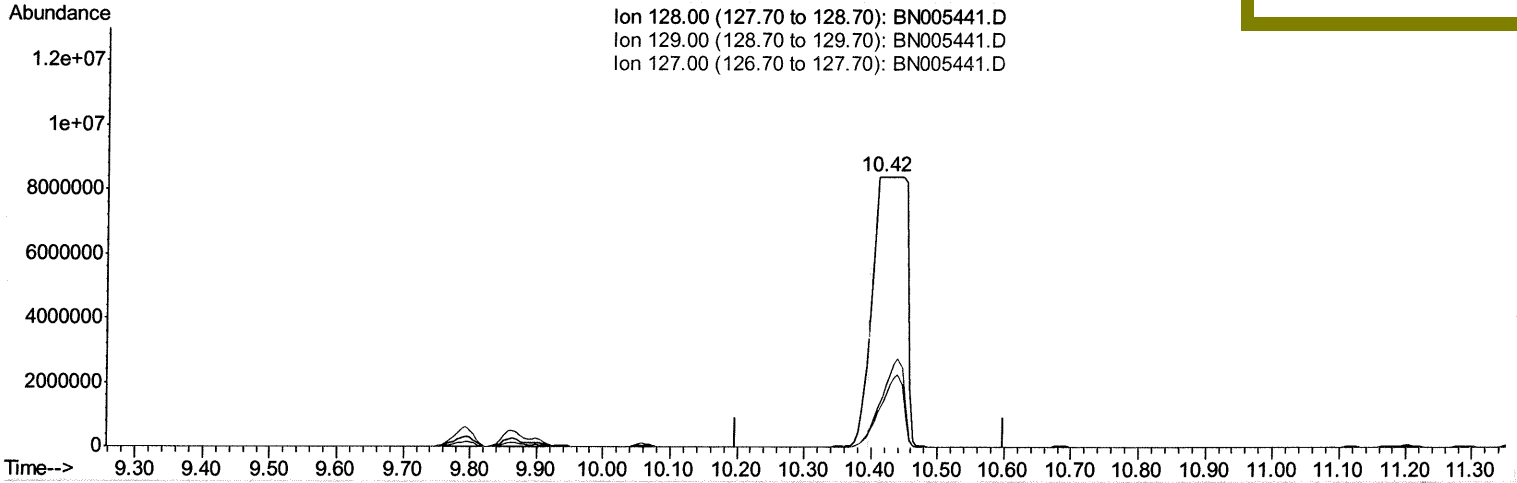
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ69

Manual Integrations  
 APPROVED

Sohil  
 5/3/2019 10:54:23 PM

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration



(28) Naphthalene

10.416min (+0.018) 417.50ng/ul m SJ 05/12/19

response 29675359

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 128.00 | 100   | 100    |
| 129.00 | 11.50 | 16.42# |
| 127.00 | 13.40 | 18.82# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

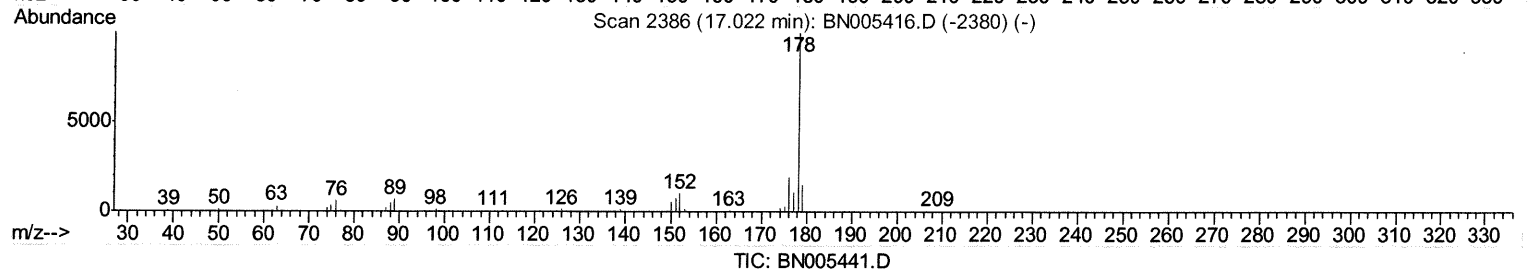
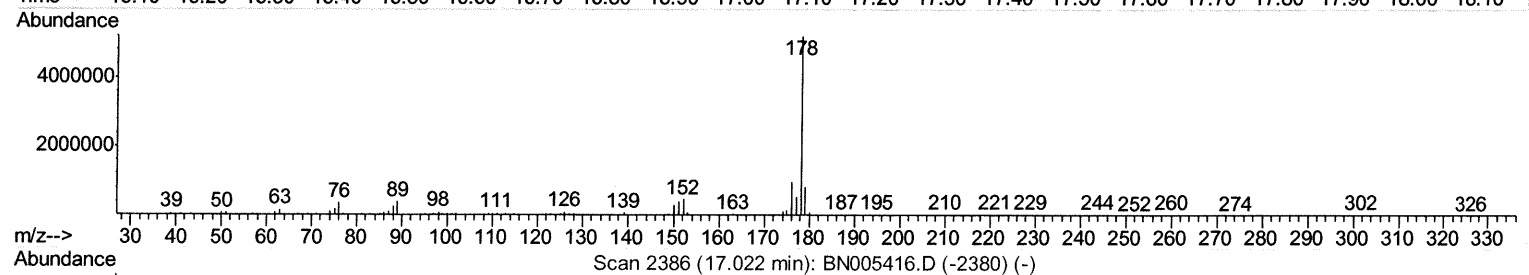
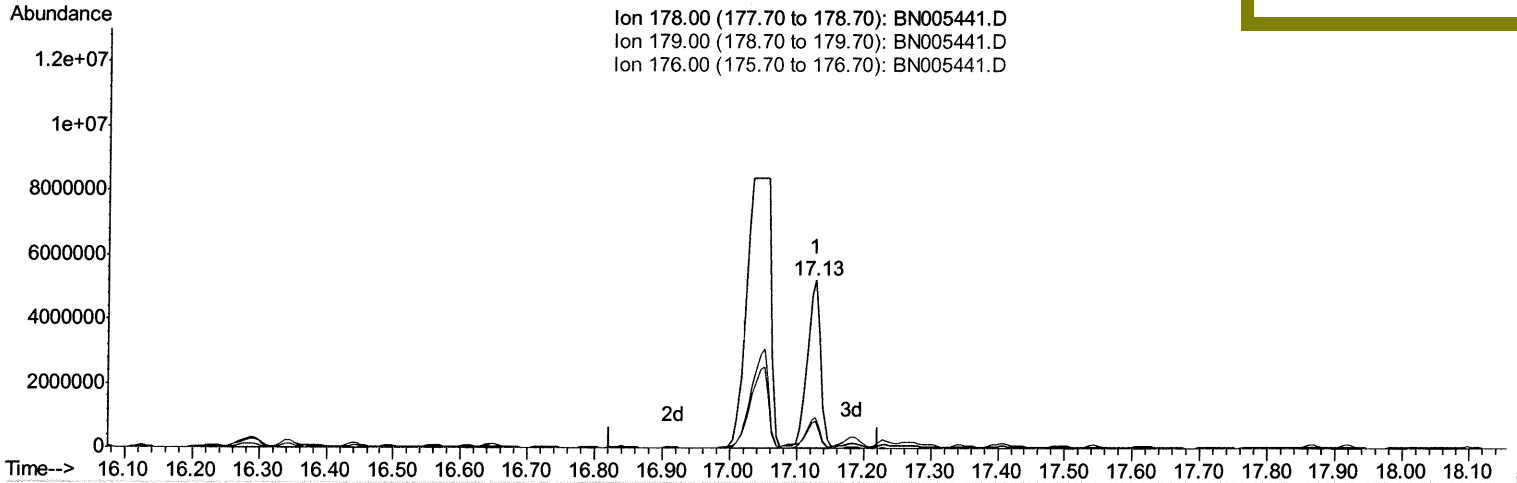
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

**Instrument :**  
 BNA\_N  
**ClientSampleId :**  
 GAJ69

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration

**Manual Integrations**  
**APPROVED**

Sohil  
 5/3/2019 10:54:23 PM



(69) Phenanthrene

17.128min (+0.106) 67.11ng/ul

response 7144398

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 15.30 | 15.89 |
| 176.00 | 18.90 | 18.50 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

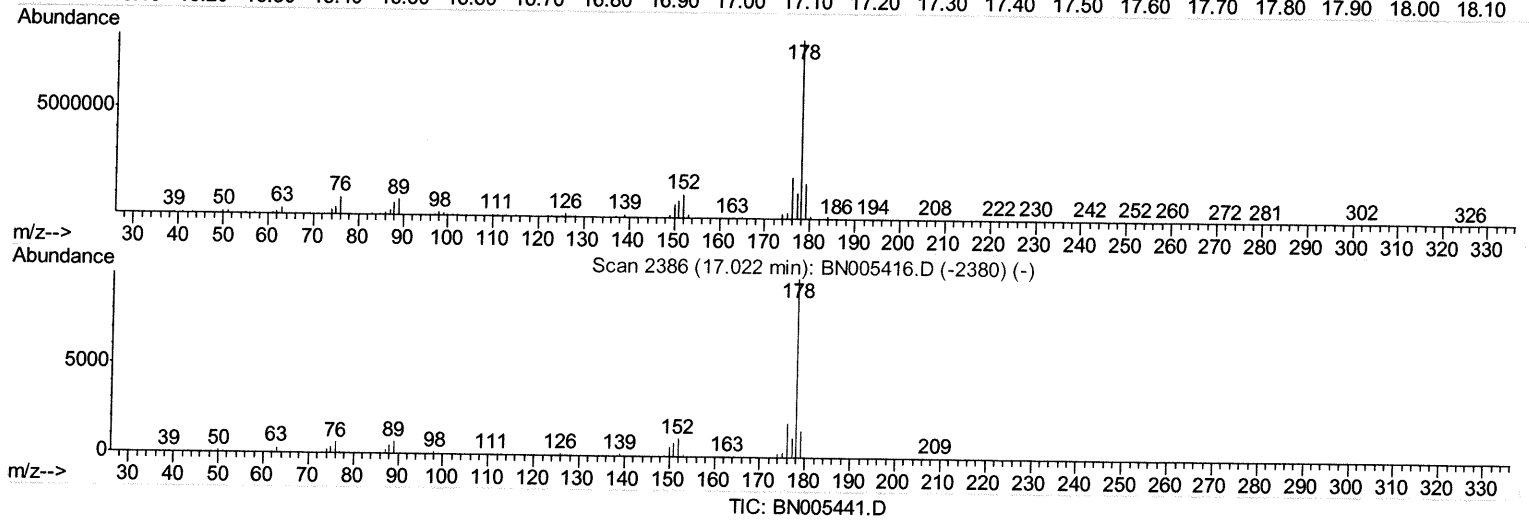
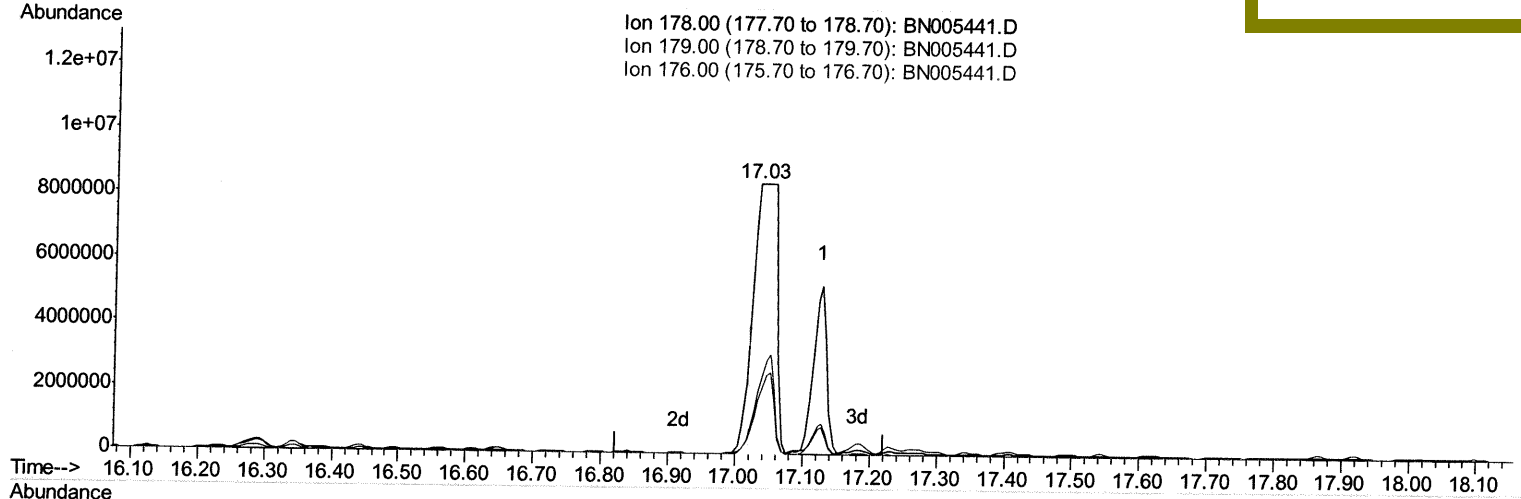
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ69

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Sohil  
 5/3/2019 10:54:23 PM



(69) Phenanthrene

17.033min (+0.012) 198.15ng/ul m *SJ05/12/19*

response 21095633

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 15.30 | 20.19# |
| 176.00 | 18.90 | 23.23# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

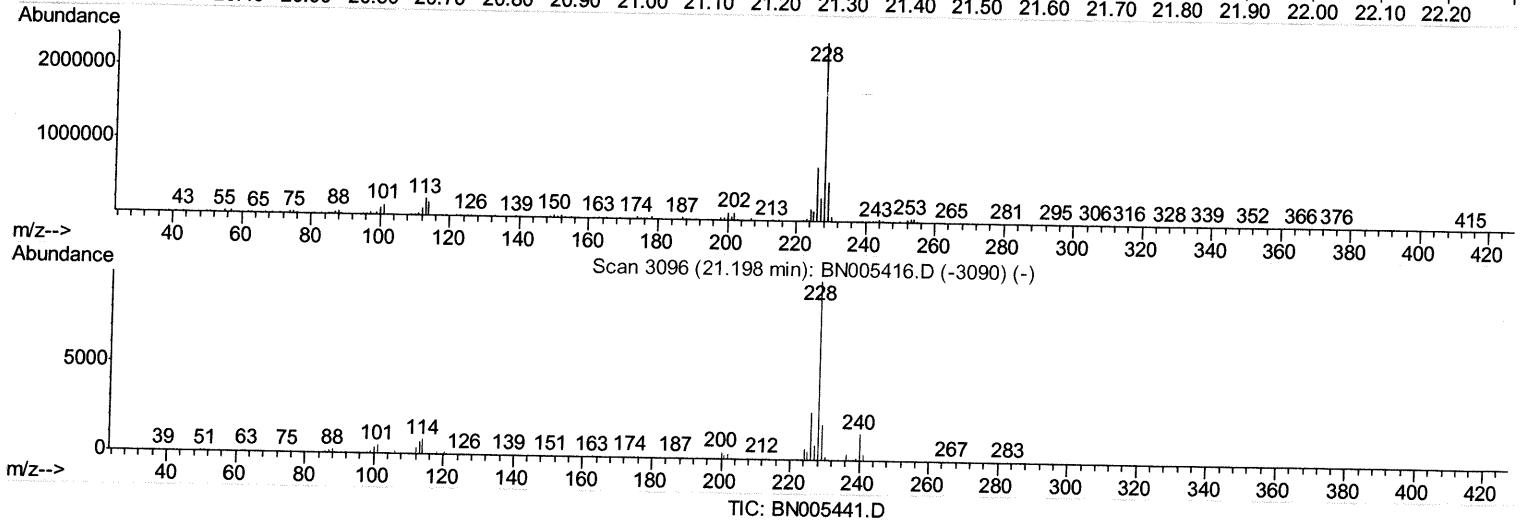
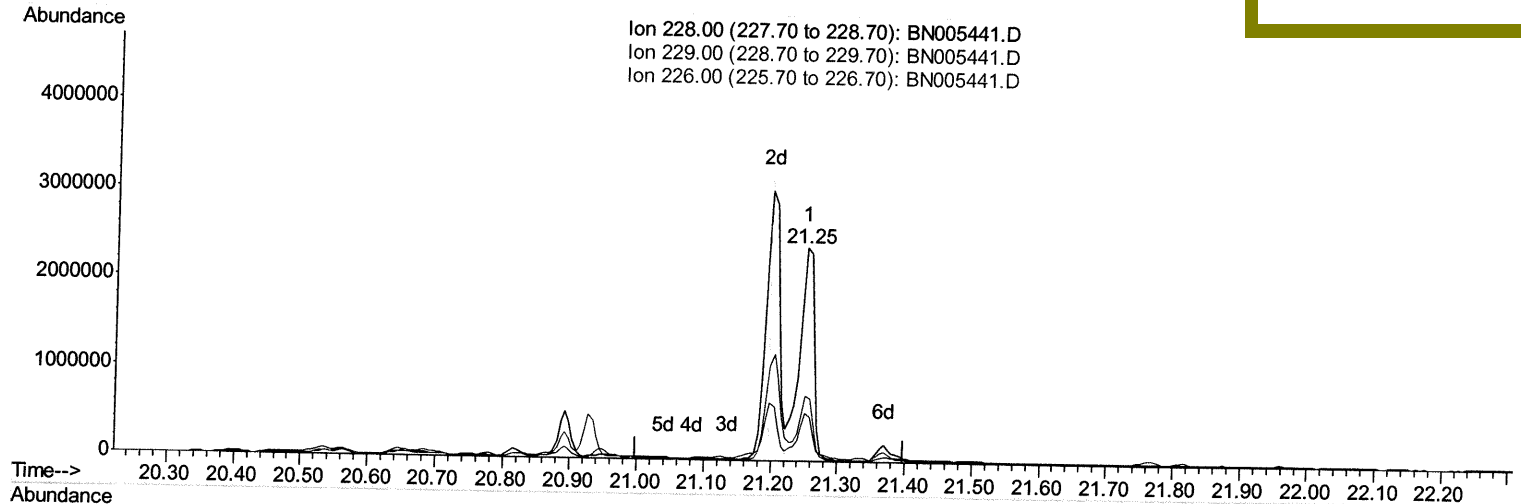
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ69

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Sohil  
 5/3/2019 10:54:23 PM



(82) Benzo(a)anthracene

21.251min (+0.053) 31.94ng/ui

response 3557704

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 228.00 | 100   | 100   |
| 229.00 | 19.70 | 22.26 |
| 226.00 | 26.80 | 30.32 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

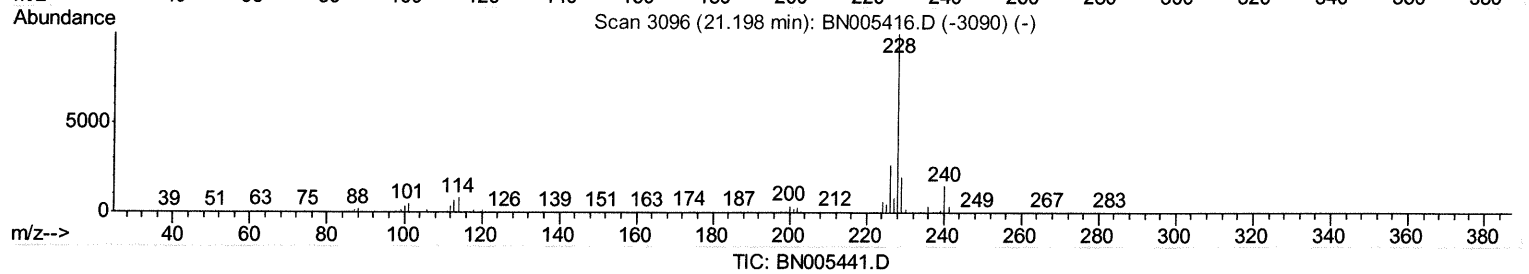
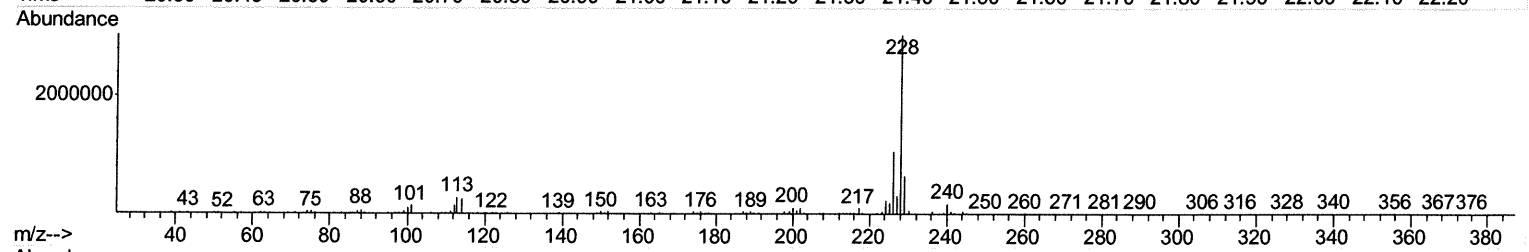
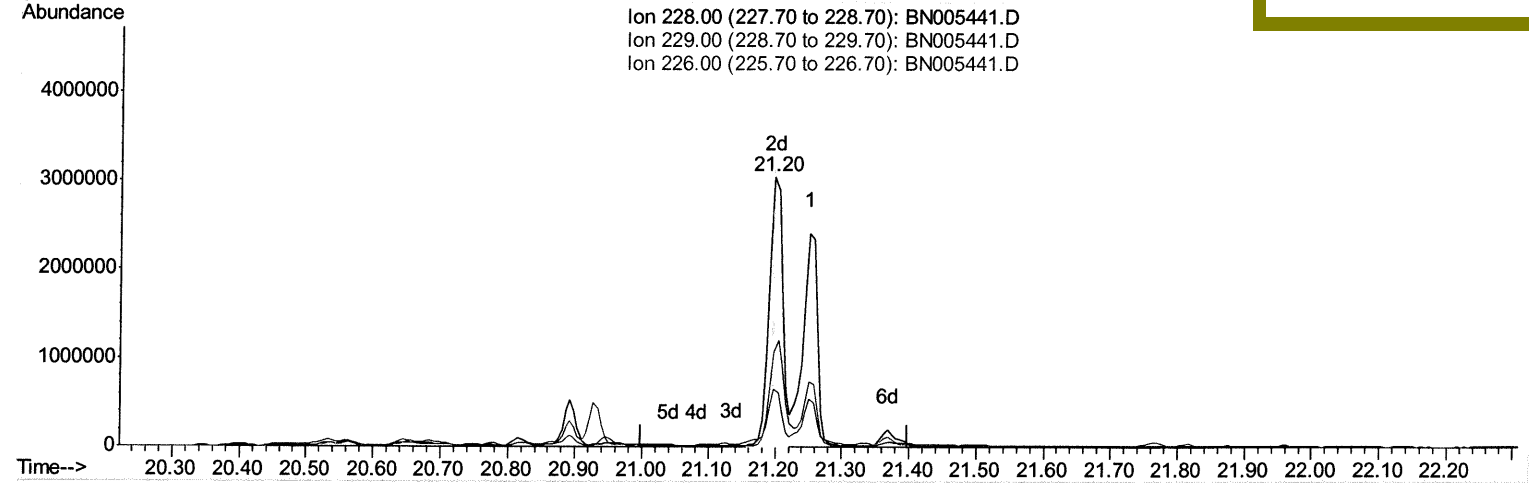
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

**Instrument :**  
 BNA\_N  
**ClientSampleId :**  
 GAJ69

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration

**Manual Integrations**  
**APPROVED**

Sohil  
 5/3/2019 10:54:23 PM



(82) Benzo(a)anthracene

21.198min (-0.000) 38.78ng/ul m *SJ 05/12/19*

response 4319853

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 229.00 | 19.70 | 21.53  |
| 226.00 | 26.80 | 35.00# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

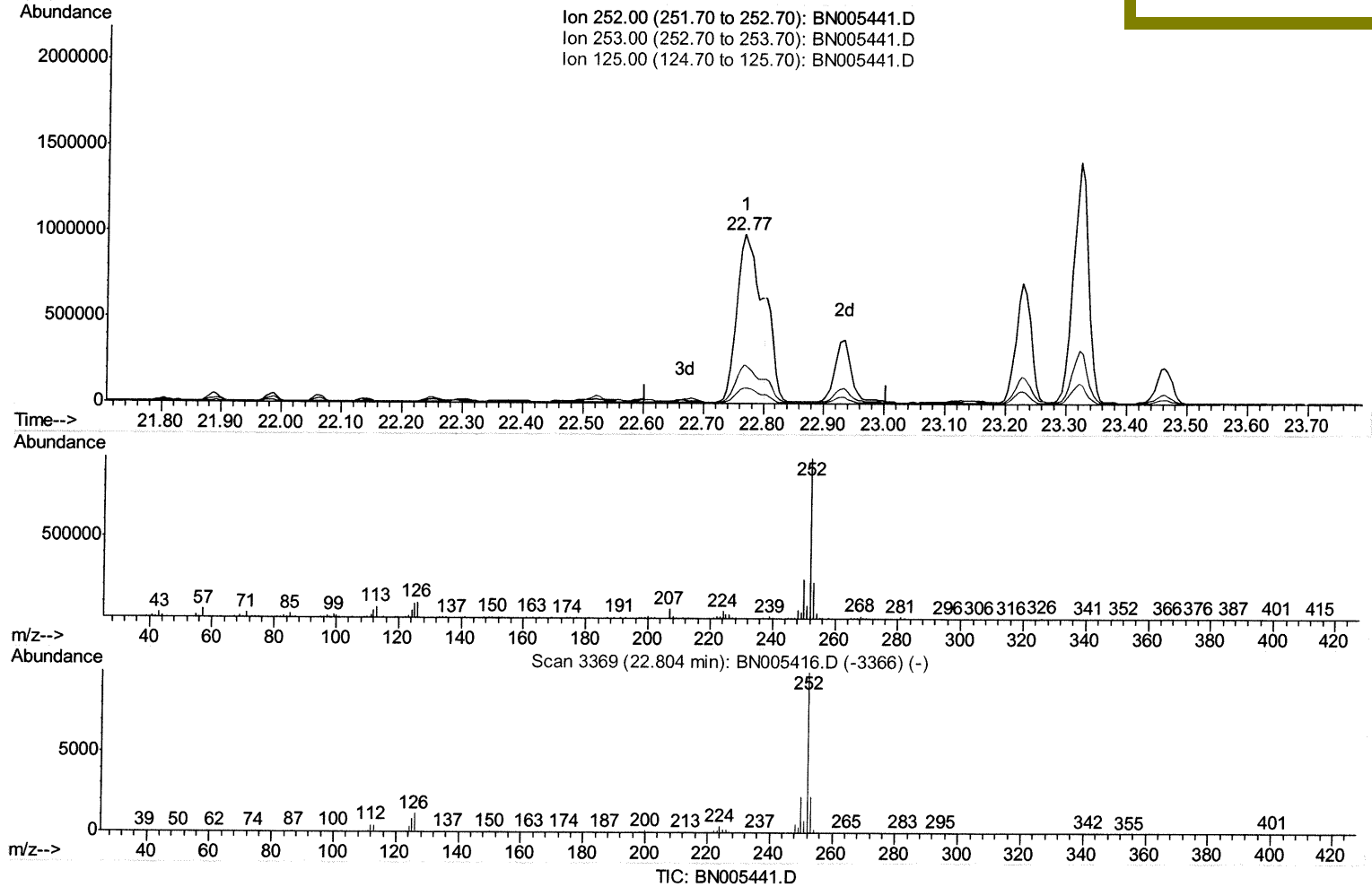
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

**Instrument :**  
 BNA\_N  
**ClientSampleId :**  
 GAJ69

**Manual Integrations**  
**APPROVED**

Sohil  
 5/3/2019 10:54:23 PM

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration



(88) Benzo(k)fluoranthene

22.768min (-0.035) 24.71ng/ul

response 2240864

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.70 | 22.57 |
| 125.00 | 9.40  | 9.14  |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

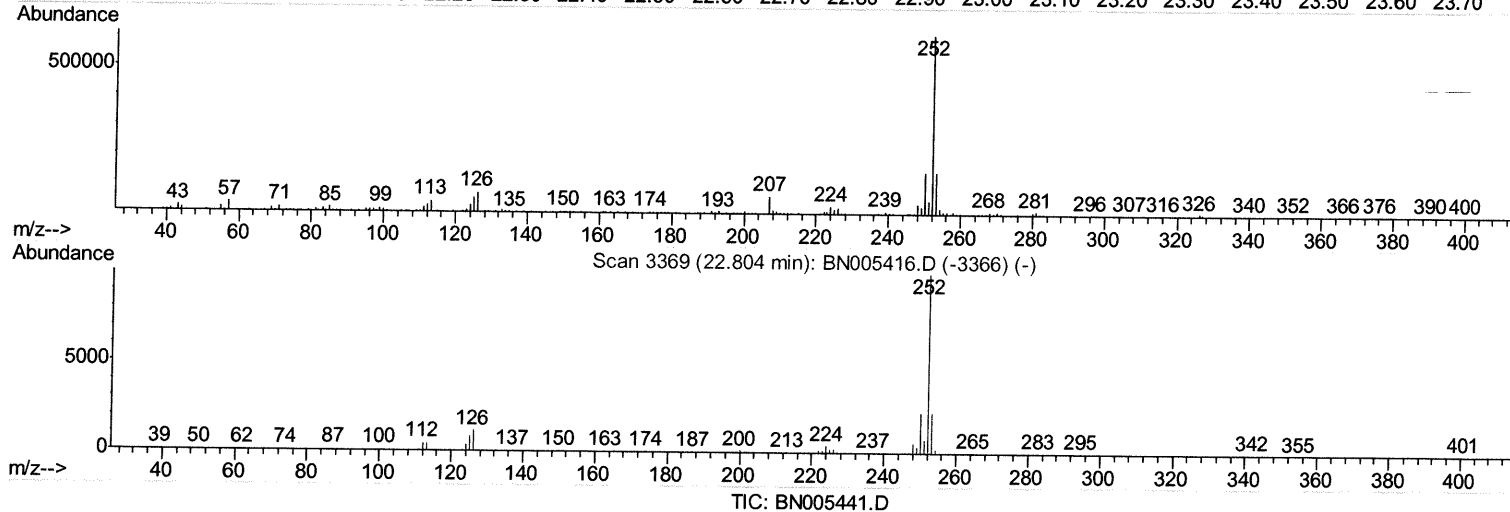
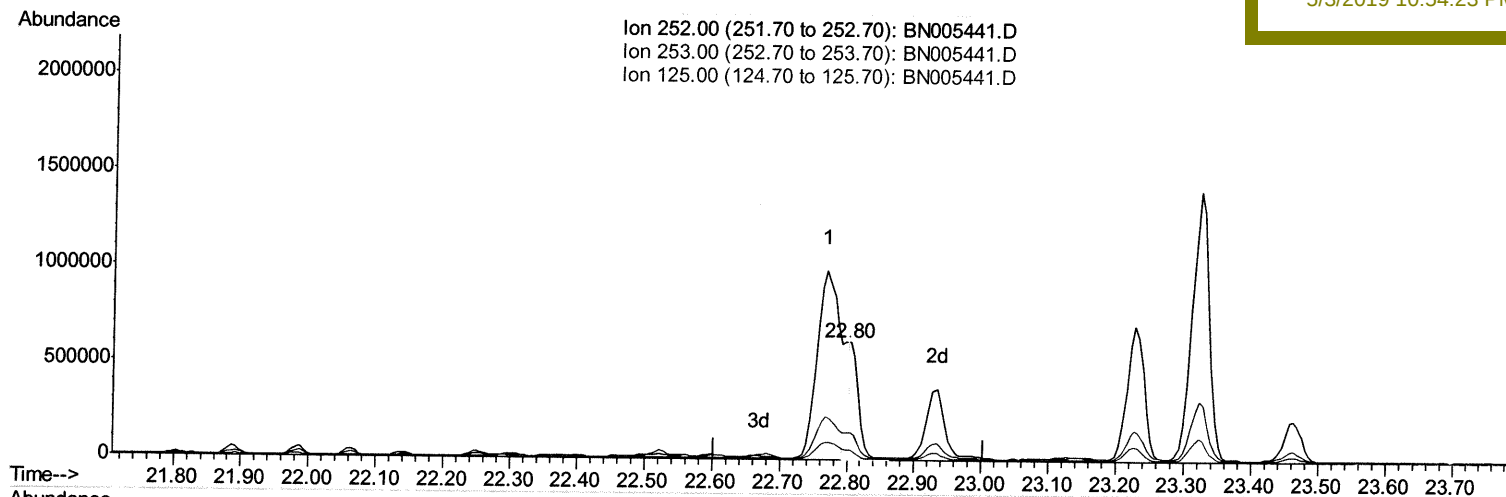
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ69

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Sohil  
 5/3/2019 10:54:23 PM



(88) Benzo(k)fluoranthene

22.798min (-0.006) 9.59ng/ul m SJ 05/12/19

response 869660

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.70 | 23.11 |
| 125.00 | 9.40  | 8.49  |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

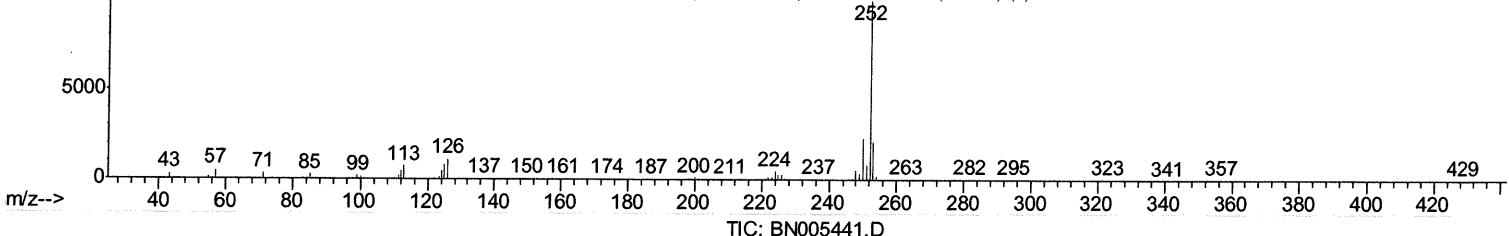
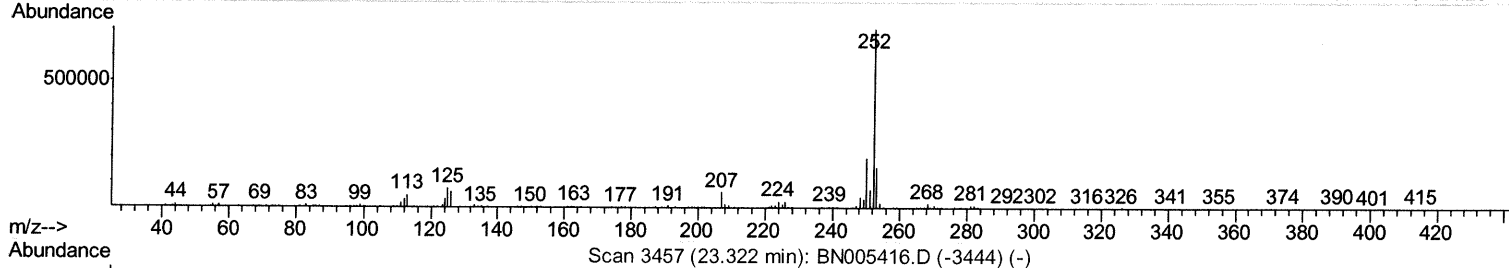
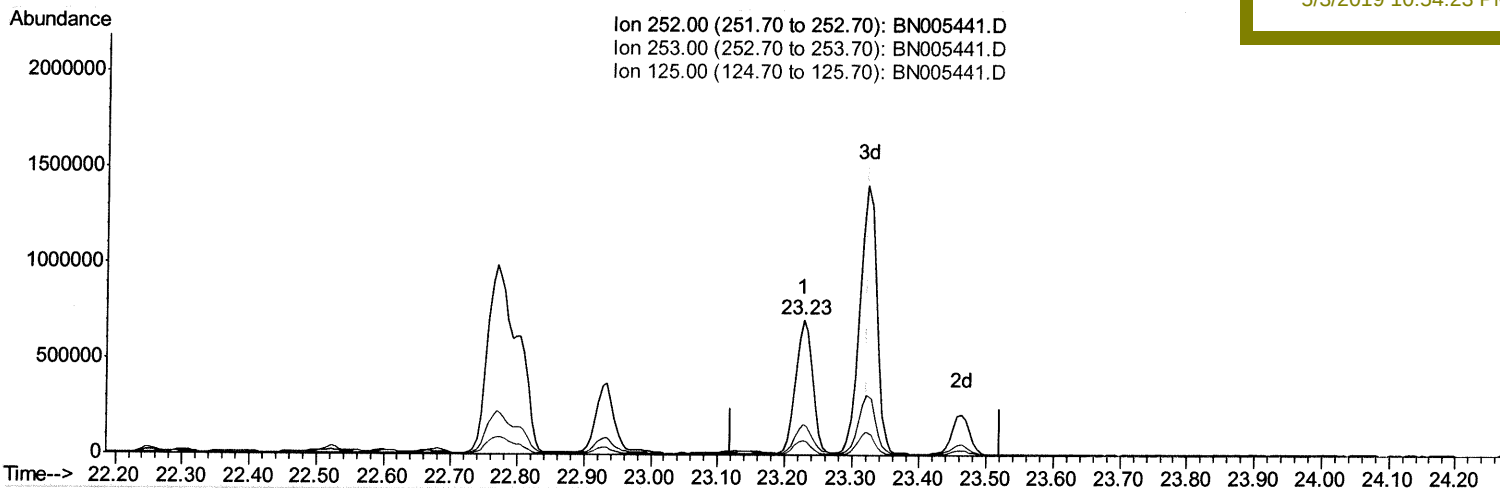
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ69

Manual Integrations  
 APPROVED

Sohil  
 5/3/2019 10:54:23 PM

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration



(90) Benzo(a)pyrene (C)

23.227min (-0.094) 13.55ng/ul

response 1209773

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.60 | 22.46 |
| 125.00 | 10.80 | 10.79 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

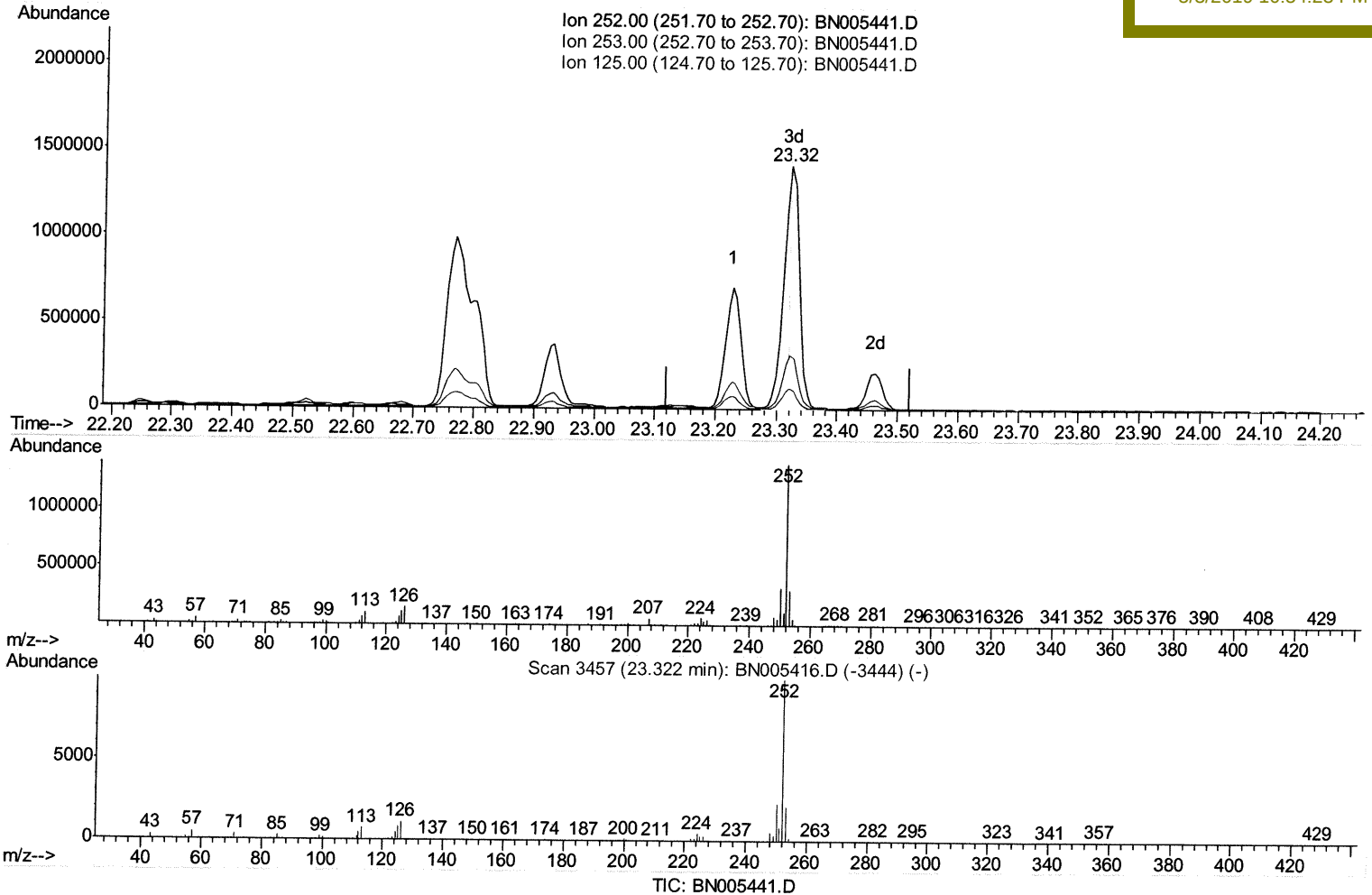
Data Path : Z:\svoasrv\HPCHEM1\BNA N\Data\BN050219\  
 Data File : BN005441.D  
 Acq On : 03 May 2019 06:31  
 Operator : JU/SJ  
 Sample : K2603-17 10X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ69

Quant Time: May 03 18:10:47 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 03 03:02:31 2019  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Sohil  
 5/3/2019 10:54:23 PM



(90) Benzo(a)pyrene (C)

23.321min (-0.000) 28.14ng/ul m

SJ 05/12/19

response 2511764

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.60 | 22.15 |
| 125.00 | 10.80 | 8.59# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050219\

Data File : BN005441.D

Acq On : 03 May 2019 06:31

Operator : JU/SJ

Sample : K2603-17 10X

Misc :

ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 06 06:57:58 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Fri May 03 03:02:31 2019

Response via : Initial Calibration

Instrument :

BNA\_N

Client Sampled :

GAJ69

Manual Integrations

APPROVED

Sohil

5/3/2019 10:54:23 PM

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|---------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.59  | 152  | 366407   | 20.00 | ng/ul | 0.00      |
| 18) Naphthalene-d8        | 10.36 | 136  | 1528972  | 20.00 | ng/ul | 0.01      |
| 35) Acenaphthene-d10      | 14.23 | 164  | 1004055  | 20.00 | ng/ul | 0.00      |
| 61) Phenanthrene-d10      | 16.99 | 188  | 2186017  | 20.00 | ng/ul | 0.00      |
| 77) Chrysene-d12          | 21.22 | 240  | 1790489  | 20.00 | ng/ul | 0.00      |
| 85) Perylene-d12          | 23.42 | 264  | 1689157  | 20.00 | ng/ul | 0.00      |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.21  | 96  | 1900   | 0.25 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.78  | 99  | 49034  | 1.70 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl) ether-d | 6.94  | 67  | 33002  | 1.84 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.13  | 132 | 42143  | 1.91 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.29  | 113 | 41269  | 1.83 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.73  | 128 | 31186  | 3.31 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.45  | 143 | 23349  | 2.45 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.99  | 165 | 45488  | 2.08 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0d     | 0.00 | ng/ul |      |
| 43) Dimethylphthalate-d6       | 13.65 | 166 | 164493 | 2.26 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.92 | 160 | 185953 | 2.08 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.46 | 143 | 25395  | 2.21 | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.23 | 176 | 138147 | 2.26 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.39 | 200 | 8838   | 0.90 | ng/ul | 0.03 |
| 70) Anthracene-d10             | 17.09 | 188 | 206513 | 2.25 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.40 | 212 | 221094 | 2.41 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.28 | 264 | 162767 | 2.20 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |           |         | Ovalue |    |
|----------------------------|-------|-----|-----------|---------|--------|----|
| 28) Naphthalene            | 10.42 | 128 | 29675359m | 417.496 | ng/ul  |    |
| 34) 2-Methylnaphthalene    | 12.05 | 142 | 21080822  | 405.049 | ng/ul  | 94 |
| 40) 1,1'-Biphenyl          | 13.06 | 154 | 2923708   | 39.081  | ng/ul  | 98 |
| 47) Acenaphthylene         | 13.96 | 152 | 11821805  | 134.376 | ng/ul# | 95 |
| 49) Acenaphthene           | 14.29 | 153 | 1291026   | 21.496  | ng/ul  | 98 |
| 53) Dibenzofuran           | 14.63 | 168 | 2327247   | 26.913  | ng/ul  | 99 |
| 58) Fluorene               | 15.29 | 166 | 7385530   | 109.455 | ng/ul  | 98 |
| 69) Phenanthrene           | 17.03 | 178 | 21095633m | 198.151 | ng/ul  |    |
| 71) Anthracene             | 17.13 | 178 | 7144398   | 65.876  | ng/ul  | 99 |
| 74) Carbazole              | 17.39 | 167 | 726078    | 7.794   | ng/ul  | 95 |
| 76) Fluoranthene           | 19.07 | 202 | 9983808   | 84.546  | ng/ul  | 96 |
| 79) Pyrene                 | 19.43 | 202 | 12546761  | 108.834 | ng/ul  | 97 |
| 82) Benzo(a)anthracene     | 21.20 | 228 | 4319853m  | 38.782  | ng/ul  |    |
| 84) Chrysene               | 21.25 | 228 | 3558972   | 34.427  | ng/ul  | 97 |
| 87) Benzo(b)fluoranthene   | 22.77 | 252 | 2240864   | 23.600  | ng/ul  | 98 |
| 88) Benzo(k)fluoranthene   | 22.80 | 252 | 869660m   | 9.590   | ng/ul  |    |
| 90) Benzo(a)pyrene         | 23.32 | 252 | 2511764m  | 28.143  | ng/ul  |    |
| 91) Indeno(1,2,3-cd)pyrene | 25.60 | 276 | 904833    | 9.170   | ng/ul# | 94 |
| 92) Dibenzo(a,h)anthracene | 25.60 | 278 | 277269    | 3.311   | ng/ul  | 95 |
| 93) Benzo(g,h,i)perylene   | 26.26 | 276 | 876912    | 10.748  | ng/ul# | 94 |

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