

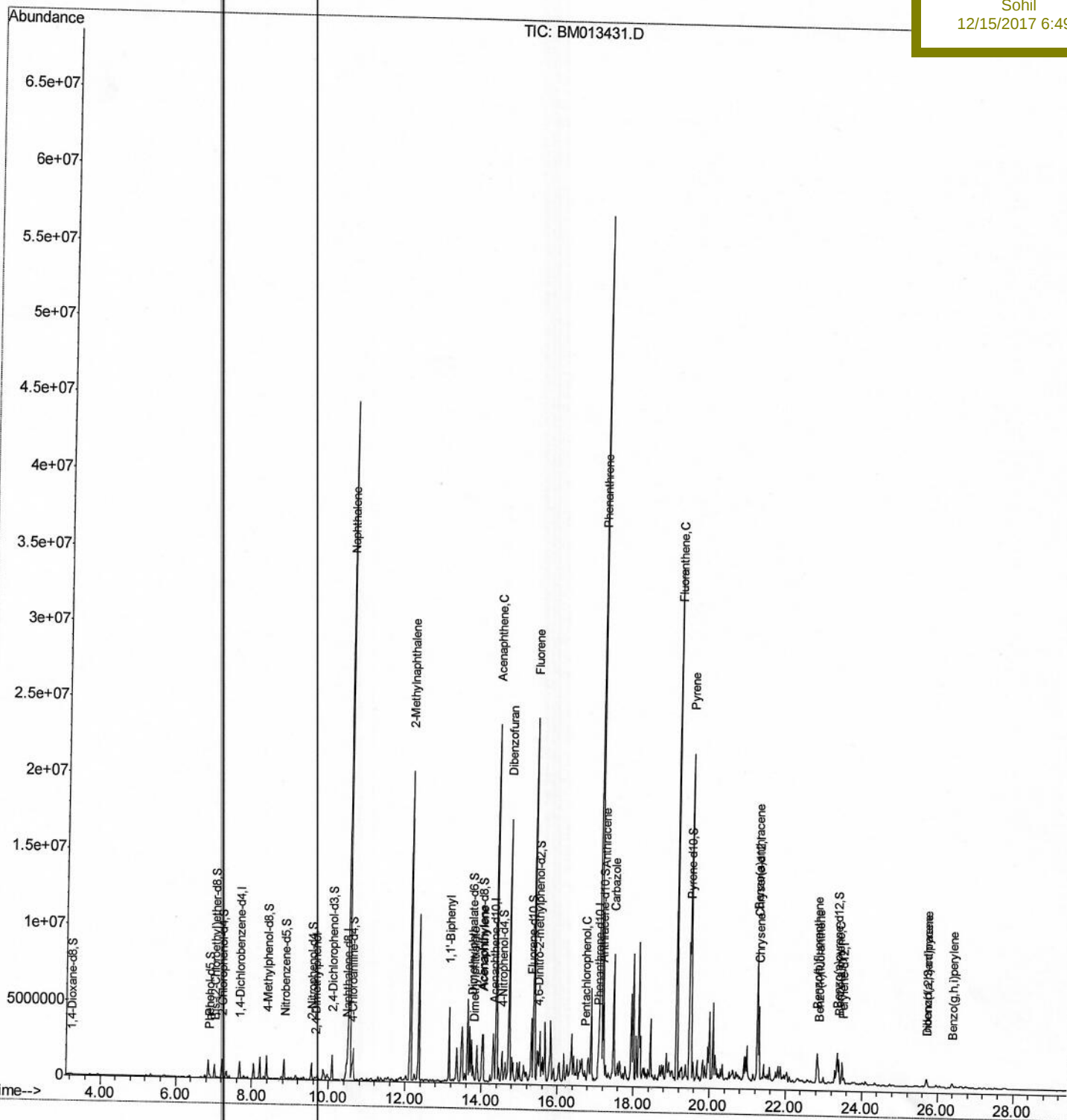
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 Client Sampled :  
 F9A80

Quant Time: Dec 15 16:56:17 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVQA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration

Manual Integrations  
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# Quantitation Report (Qedit)

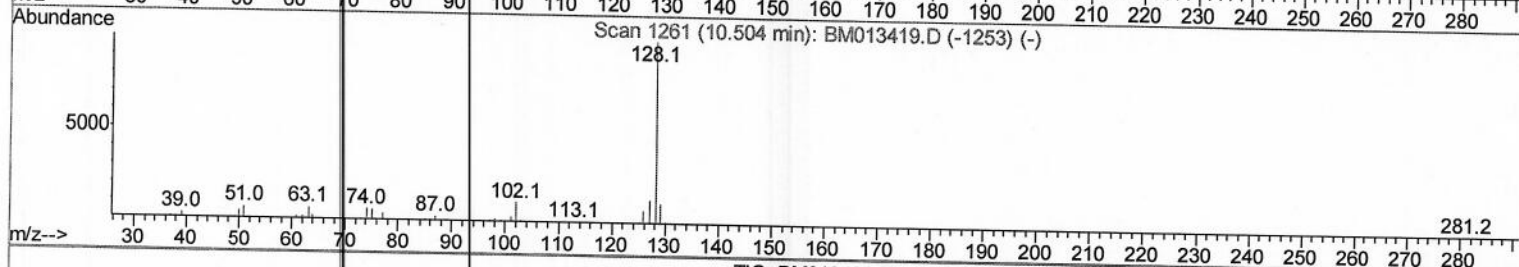
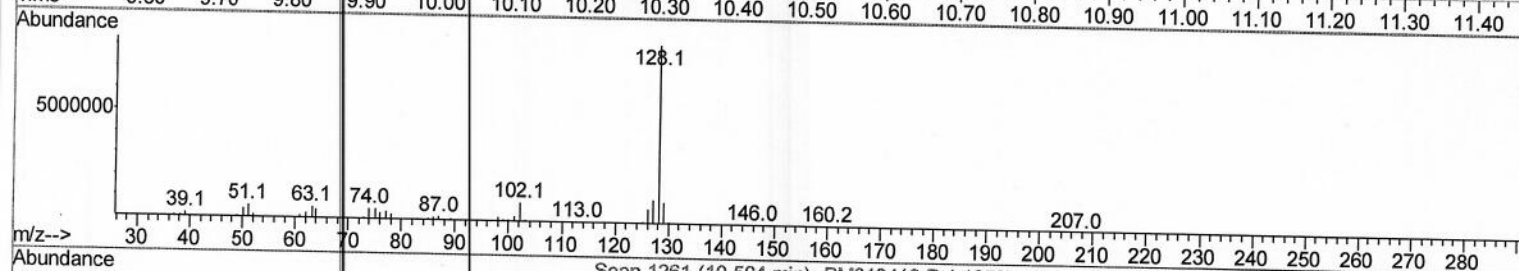
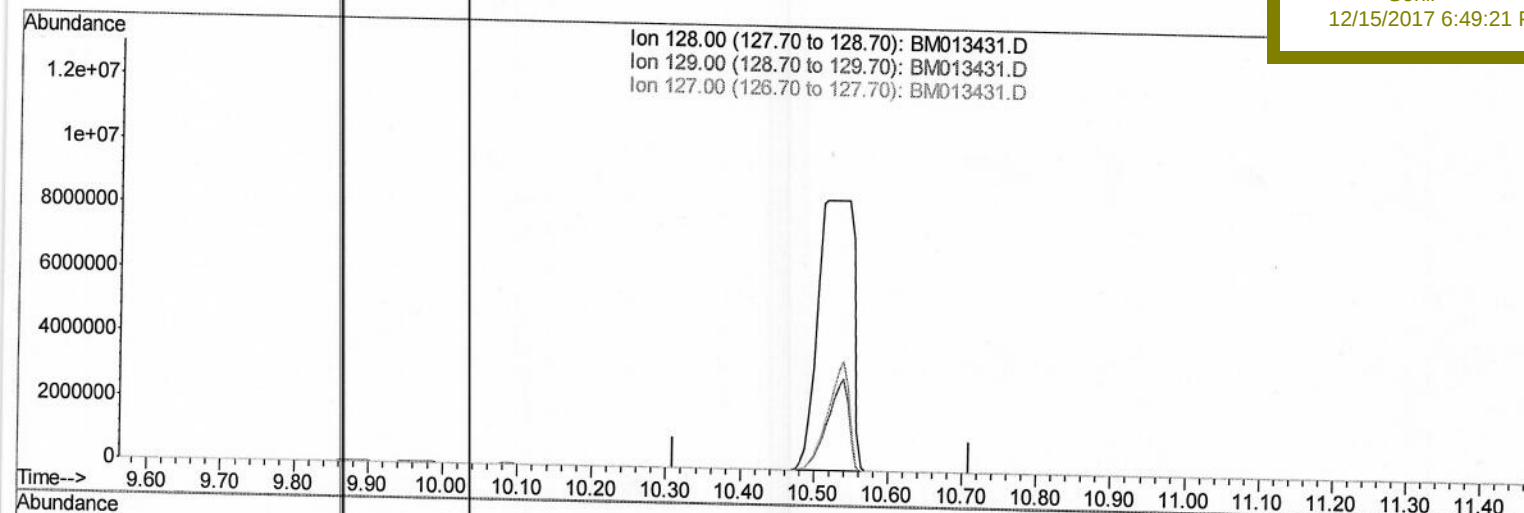
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 15 11:49:59 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVQA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A80

Manual Integrations  
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TIC: BM013431.D

(28) Naphthalene

10.510min (-10.510) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 128.00 | 100   | 0.00  |
| 129.00 | 11.00 | 0.00# |
| 127.00 | 13.30 | 0.00# |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

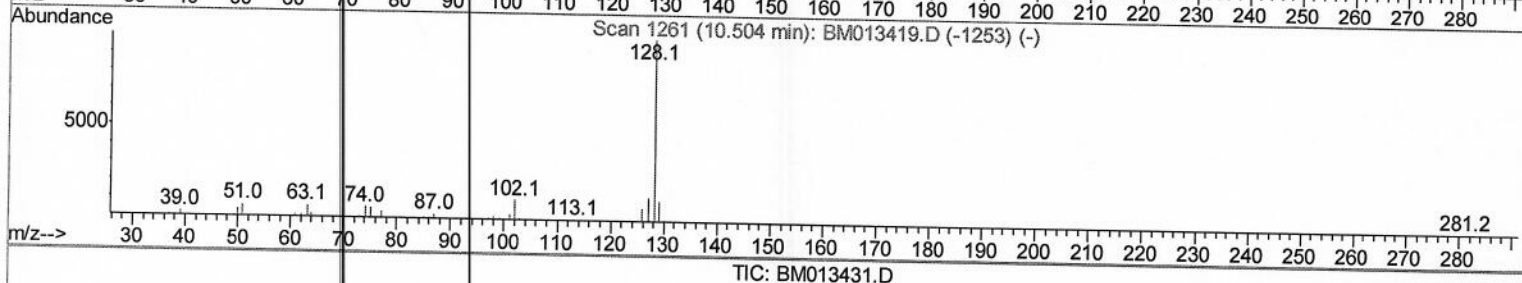
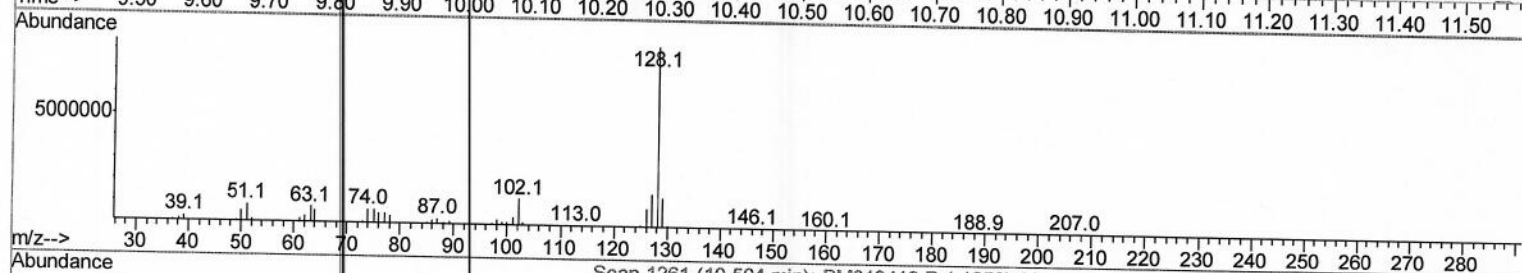
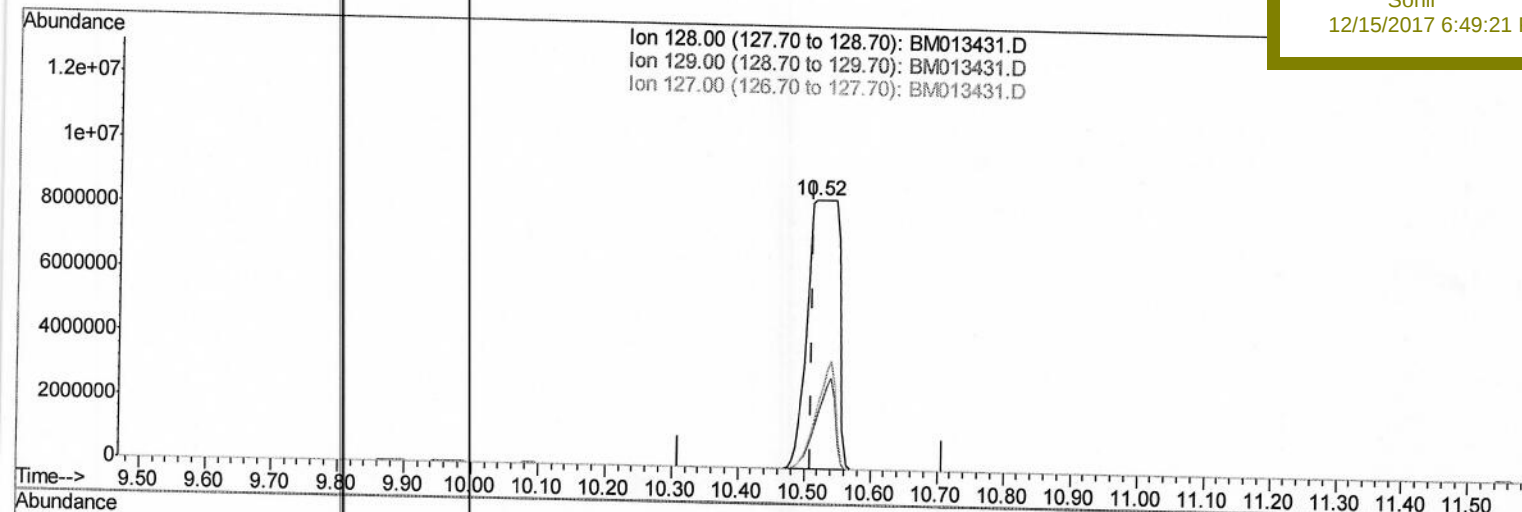
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A80

Quant Time: Dec 15 11:49:59 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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(28) Naphthalene

10.516min (+0.006) 442.11ng/ul m

response 27659707

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 128.00 | 100   | 100    |
| 129.00 | 11.00 | 16.32# |
| 127.00 | 13.30 | 18.64# |
| 0.00   | 0.00  | 0.00   |

JU 12/15/17

# Quantitation Report (Qedit)

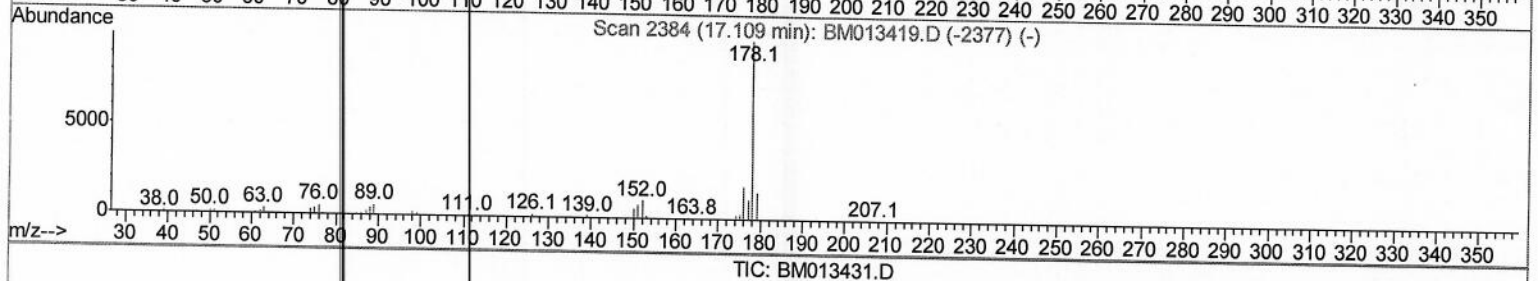
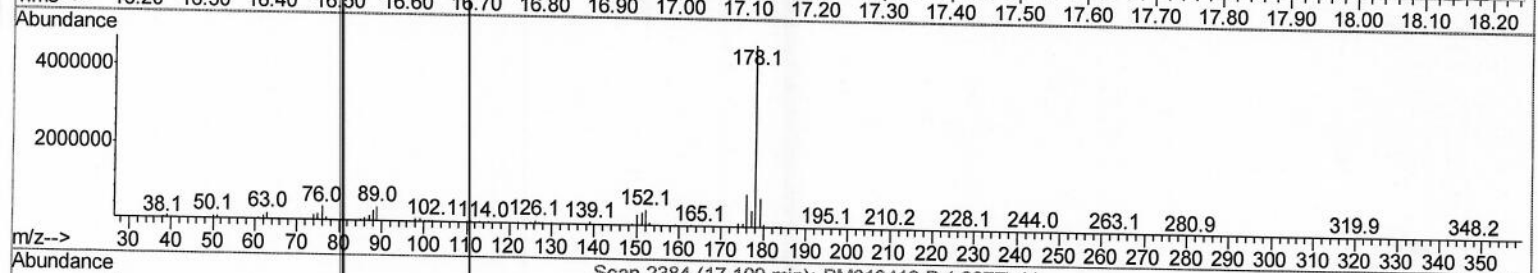
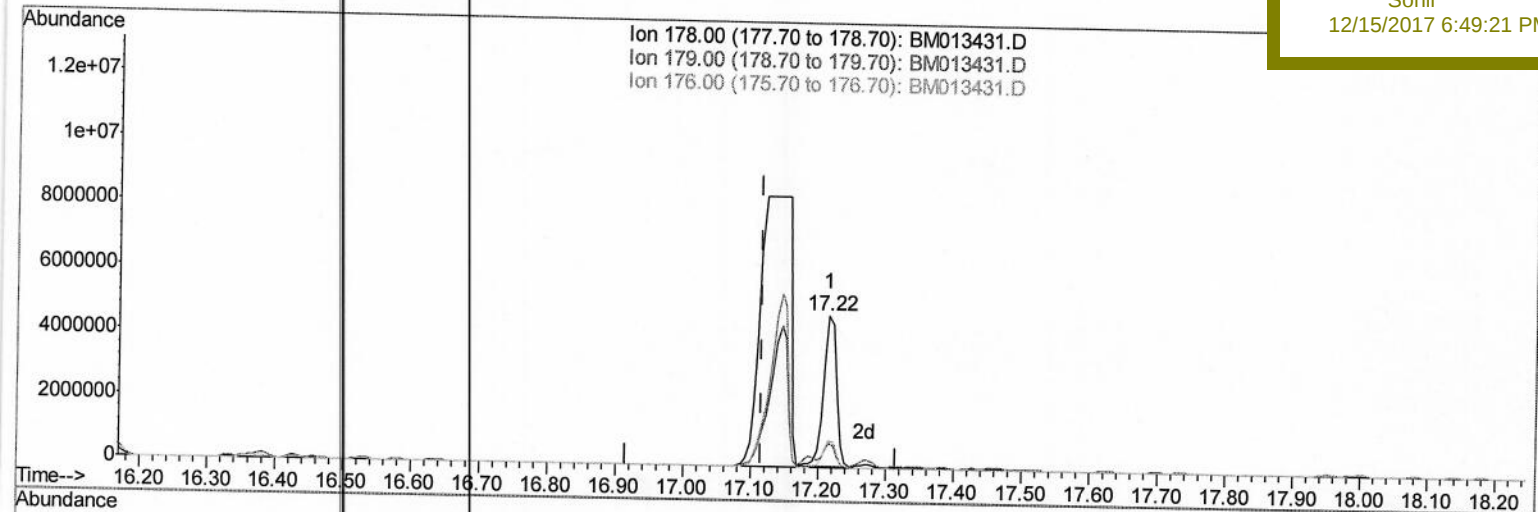
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A80

Quant Time: Dec 15 11:49:59 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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(69) Phenanthrene

17.215min (+0.100) 74.26ng/ul

response 6226856

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 100   |
| 179.00 | 15.80 | 15.82 |
| 176.00 | 18.60 | 17.85 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

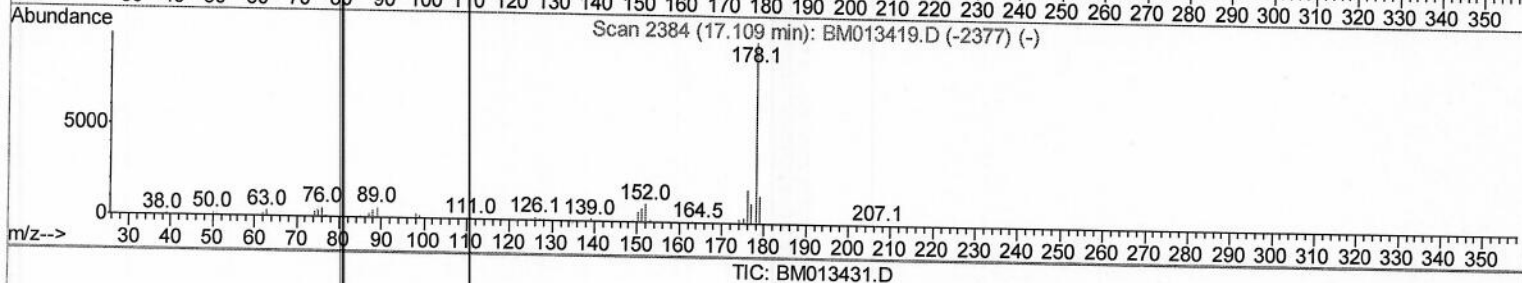
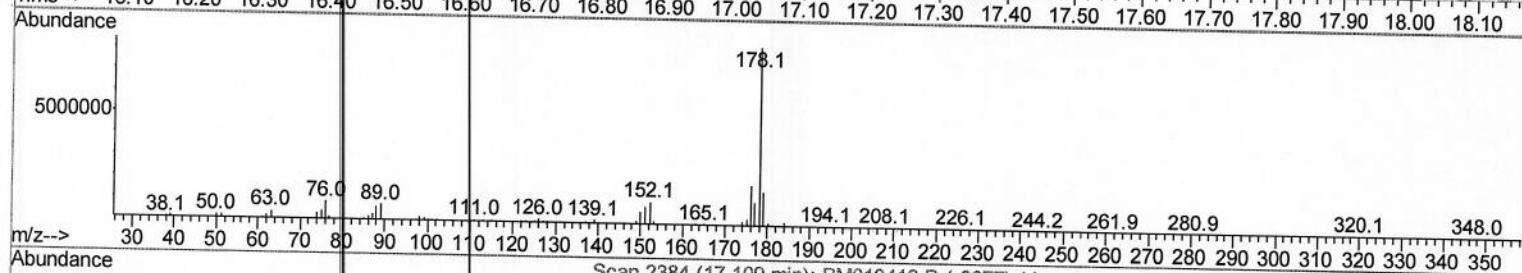
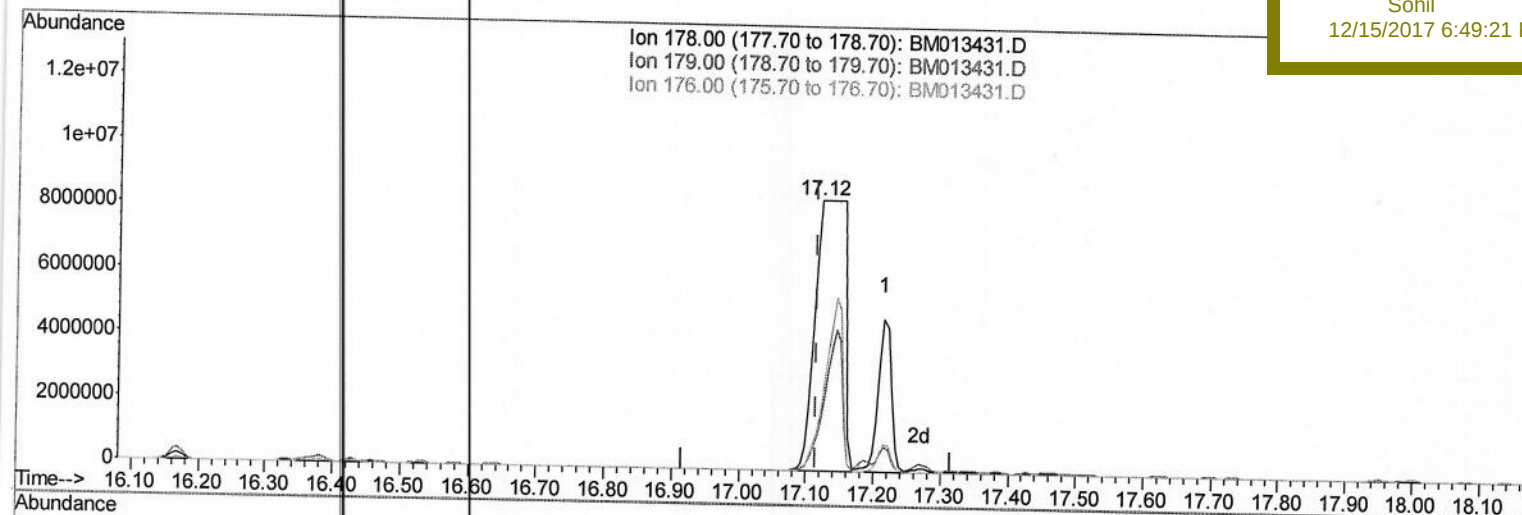
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A80

Quant Time: Dec 15 11:49:59 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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TIC: BM013431.D

(69) Phenanthrene

17.121min (+0.006) 308.82ng/ul m

response 25894979

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 15.80 | 19.29# |
| 176.00 | 18.60 | 22.46# |
| 0.00   | 0.00  | 0.00   |

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# Quantitation Report (Qedit)

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :

BNA\_M

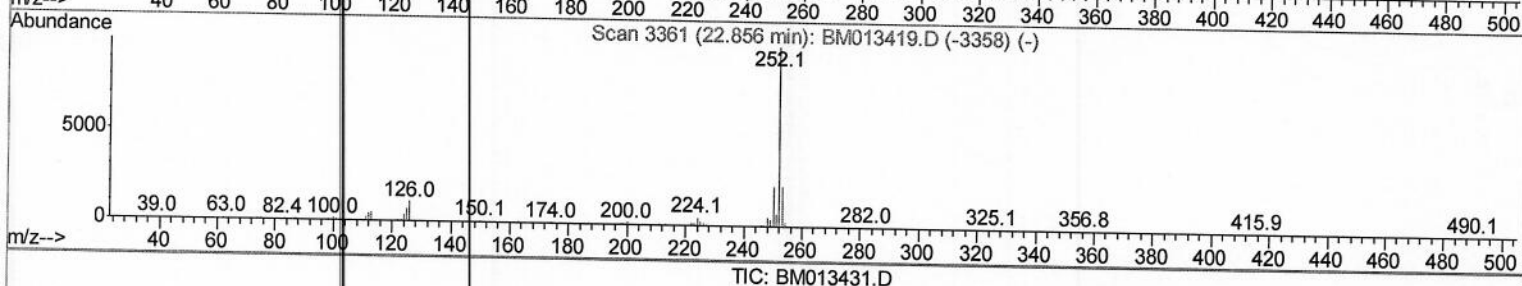
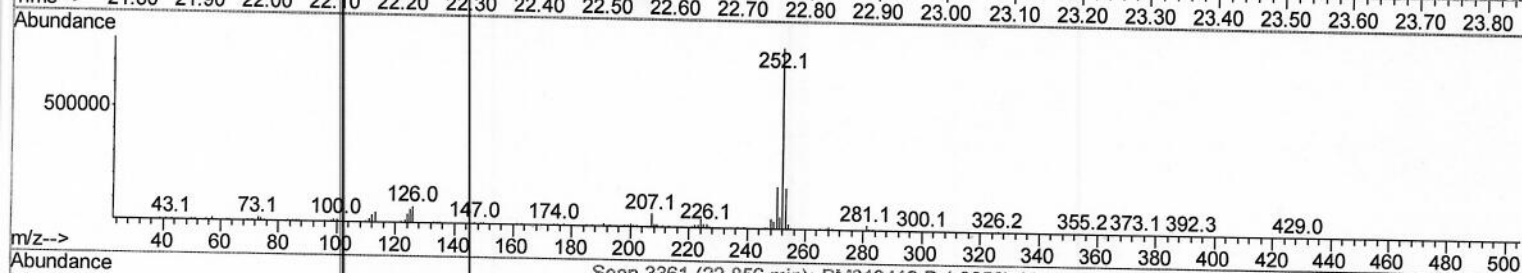
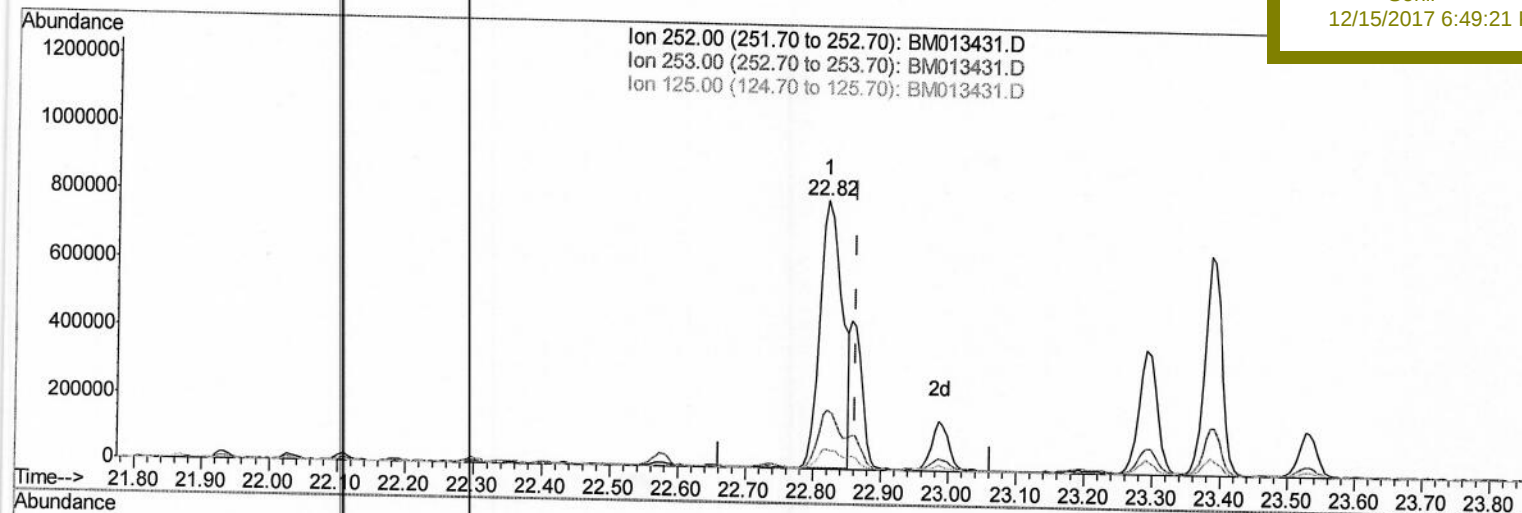
ClientSampleId :

F9A80

Quant Time: Dec 15 11:49:59 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration

Manual Integrations  
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(86) Benzo(k)fluoranthene

22.821min (-0.041) 27.42ng/ul

response 1822720

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.40 | 22.47 |
| 125.00 | 4.30  | 7.35# |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

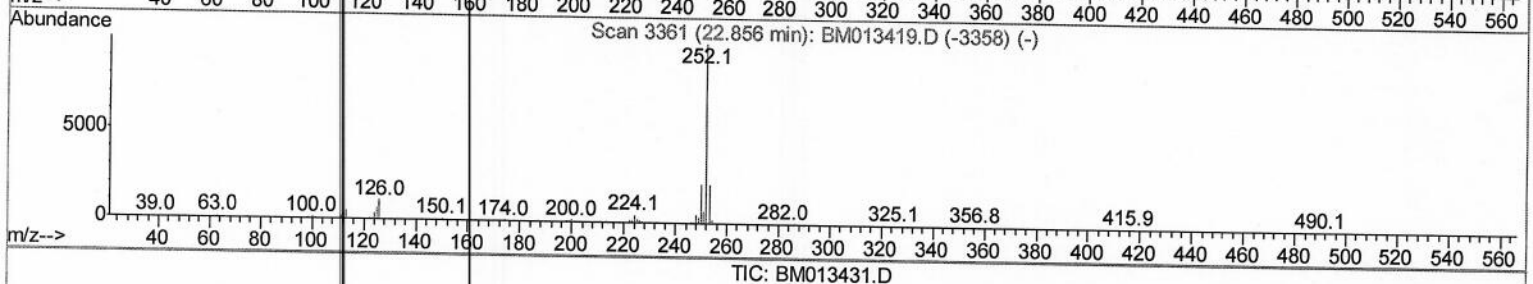
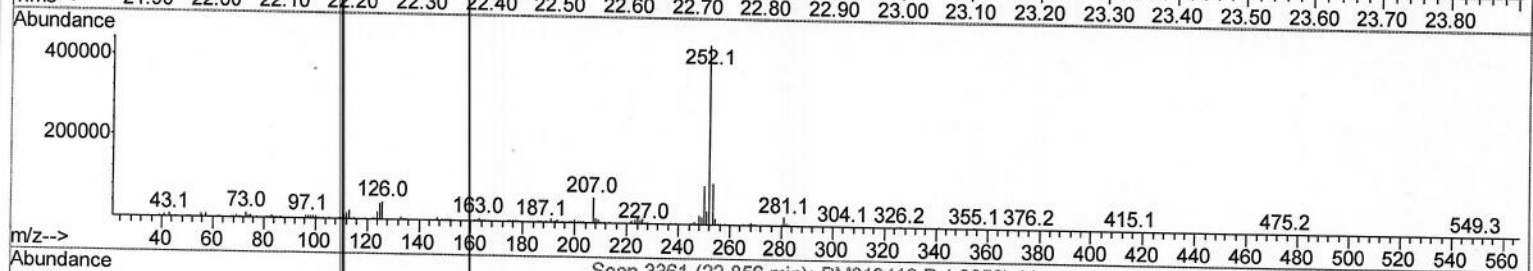
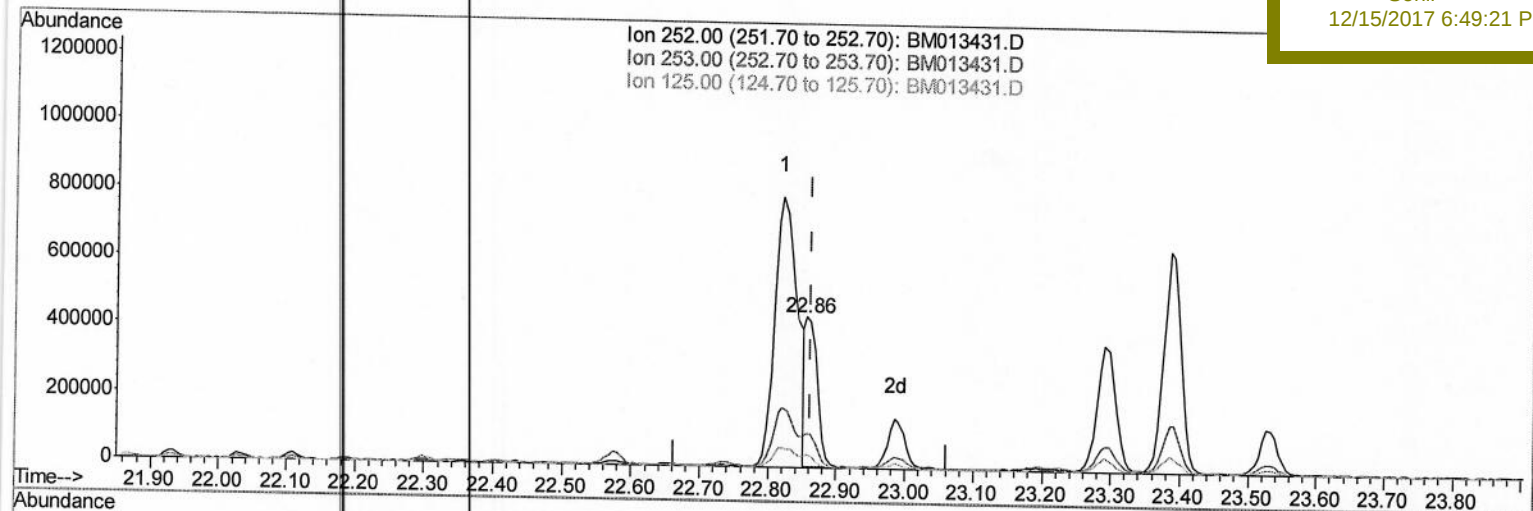
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA M\DATA\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A80

Manual Integrations  
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Quant Time: Dec 15 11:49:59 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration



TIC: BM013431.D

(86) Benzo(k)fluoranthene

22.856min (-0.006) 7.98ng/ul m

response 530489

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.40 | 22.97 |
| 125.00 | 4.30  | 8.72# |
| 0.00   | 0.00  | 0.00  |

SJ 12/15/17

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 Client Sampled :  
 F9A80

Manual Integrations  
 APPROVED

Sohil  
 12/15/2017 6:49:21 PM

Quant Time: Dec 15 16:56:17 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev (Min) |
|---------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 280416   | 20.00 | ng/ul | 0.00      |
| 18) Naphthalene-d8        | 10.46 | 136  | 1216021  | 20.00 | ng/ul | 0.00      |
| 35) Acenaphthene-d10      | 14.32 | 164  | 716752   | 20.00 | ng/ul | 0.00      |
| 61) Phenanthrene-d10      | 17.08 | 188  | 1475960  | 20.00 | ng/ul | 0.00      |
| 75) Chrysene-d12          | 21.26 | 240  | 1294295  | 20.00 | ng/ul | 0.00      |
| 83) Perylene-d12          | 23.49 | 264  | 1047661  | 20.00 | ng/ul | 0.00      |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.23  | 96  | 24629   | 4.35  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.86  | 99  | 618133  | 25.47 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl) ether-d | 7.02  | 67  | 379557  | 27.43 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.21  | 132 | 510597  | 26.93 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 557989  | 26.92 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.83  | 128 | 289432  | 30.01 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.55  | 143 | 322530  | 31.25 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 554120  | 26.05 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.60 | 131 | 476066  | 24.35 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.74 | 166 | 1723066 | 27.01 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.02 | 160 | 2067540 | 26.27 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.54 | 143 | 264180  | 23.84 | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.32 | 176 | 1419143 | 25.87 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.47 | 200 | 190635  | 20.53 | ng/ul | 0.02 |
| 70) Anthracene-d10             | 17.18 | 188 | 2057617 | 27.84 | ng/ul | 0.01 |
| 76) Pyrene-d10                 | 19.47 | 212 | 2102019 | 32.60 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.34 | 264 | 1388343 | 26.02 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |           |         | Qvalue |     |
|----------------------------|-------|-----|-----------|---------|--------|-----|
| 6) Phenol                  | 6.88  | 94  | 76582     | 3.193   | ng/ul# | 86  |
| 24) 2,4-Dimethylphenol     | 9.65  | 107 | 52274     | 2.240   | ng/ul# | 81  |
| 28) Naphthalene            | 10.52 | 128 | 27659707m | 442.111 | ng/ul  |     |
| 34) 2-Methylnaphthalene    | 12.13 | 142 | 9772476   | 207.792 | ng/ul  | 96  |
| 40) 1,1'-Biphenyl          | 13.15 | 154 | 2369545   | 39.117  | ng/ul  | 98  |
| 44) Dimethylphthalate      | 13.79 | 163 | 522543    | 8.566   | ng/ul  | 99  |
| 47) Acenaphthylene         | 14.04 | 152 | 1145619   | 15.728  | ng/ul# | 95  |
| 49) Acenaphthene           | 14.40 | 153 | 9236703   | 186.155 | ng/ul  | 98  |
| 53) Dibenzofuran           | 14.73 | 168 | 10157470  | 138.668 | ng/ul  | 100 |
| 58) Fluorene               | 15.39 | 166 | 10758656  | 177.543 | ng/ul  | 99  |
| 68) Pentachlorophenol      | 16.74 | 266 | 13481     | 1.218   | ng/ul  | 88  |
| 69) Phenanthrene           | 17.12 | 178 | 25894979m | 308.817 | ng/ul  |     |
| 71) Anthracene             | 17.22 | 178 | 6226856   | 72.650  | ng/ul  | 98  |
| 72) Carbazole              | 17.49 | 167 | 4785252   | 64.908  | ng/ul  | 100 |
| 74) Fluoranthene           | 19.14 | 202 | 17104833m | 166.457 | ng/ul  |     |
| 77) Pyrene                 | 19.51 | 202 | 13725654  | 174.556 | ng/ul# | 85  |
| 80) Benzo(a)anthracene     | 21.25 | 228 | 3420649   | 41.654  | ng/ul  | 98  |
| 82) Chrysene               | 21.30 | 228 | 2788334   | 36.599  | ng/ul  | 98  |
| 85) Benzo(b)fluoranthene   | 22.82 | 252 | 1822720   | 25.809  | ng/ul# | 98  |
| 86) Benzo(k)fluoranthene   | 22.86 | 252 | 530489m   | 7.982   | ng/ul  |     |
| 88) Benzo(a)pyrene         | 23.39 | 252 | 1134991   | 17.890  | ng/ul# | 96  |
| 89) Indeno(1,2,3-cd)pyrene | 25.71 | 276 | 457293    | 7.265   | ng/ul# | 97  |
| 90) Dibenzo(a,h)anthracene | 25.71 | 278 | 133580    | 2.492   | ng/ul# | 87  |

# Quantitation Report (LSC Reviewed)

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A80

Quant Time: Dec 15 16:56:17 2017  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration

Manual Integrations  
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| Internal Standards       | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------|-------|------|----------|-------|--------|----------|
| 91) Benzo(g,h,i)perylene | 26.39 | 276  | 340454   | 6.857 | ng/ul# | 90       |

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

# Quantitation Report (Qedit)

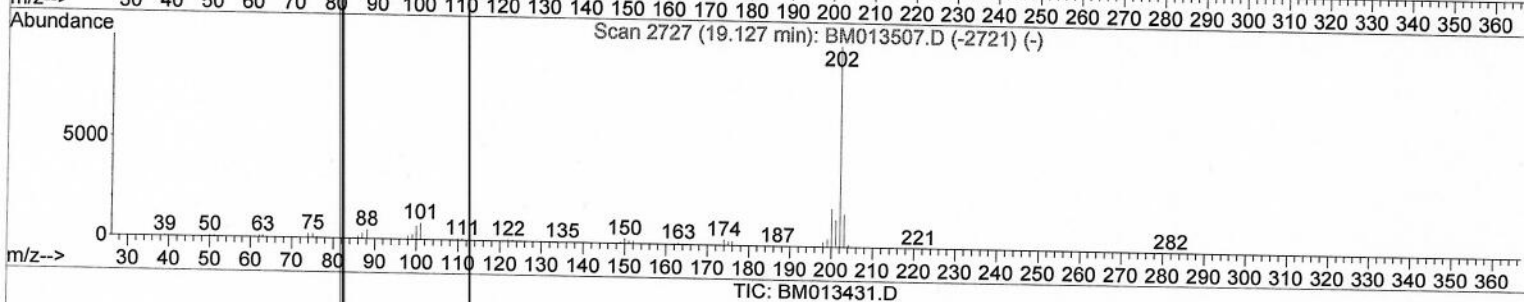
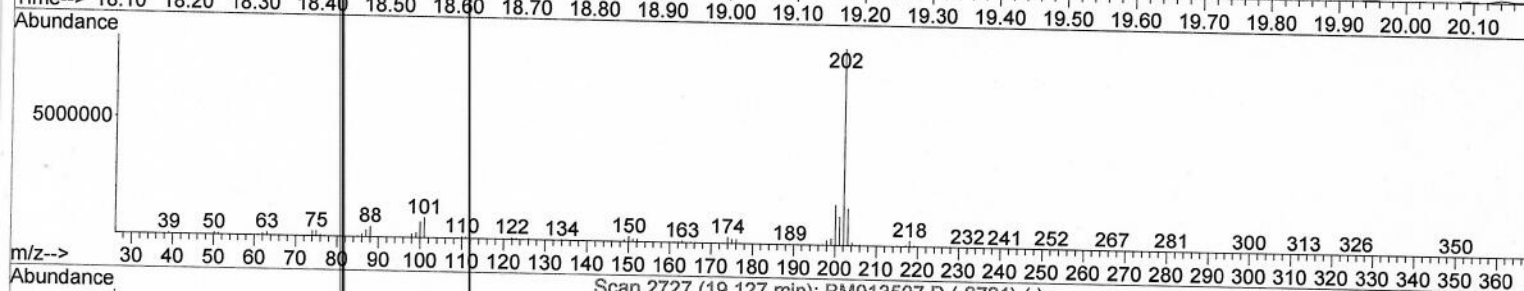
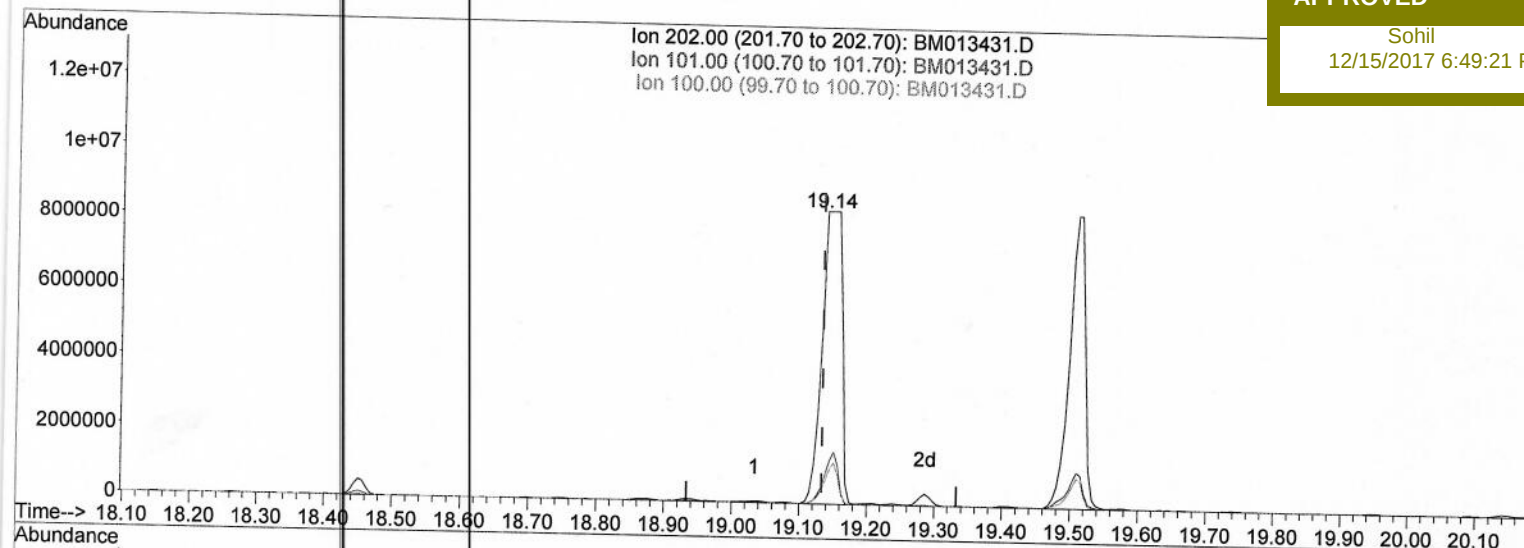
Data Path : Z:\HPCHEM1\BNA M\Data\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A80

Quant Time: Dec 15 16:56:17 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 15 04:56:09 2017  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Sohil  
 12/15/2017 6:49:21 PM



(74) Fluoranthene (C)

19.139min (+0.006) 166.46ng/ul m

response 17104833

| Ion    | Exp% | Act%   |
|--------|------|--------|
| 202.00 | 100  | 100    |
| 101.00 | 5.80 | 10.44# |
| 100.00 | 4.30 | 8.25#  |
| 0.00   | 0.00 | 0.00   |

JU 12/15/17

# Quantitation Report (Qedit)

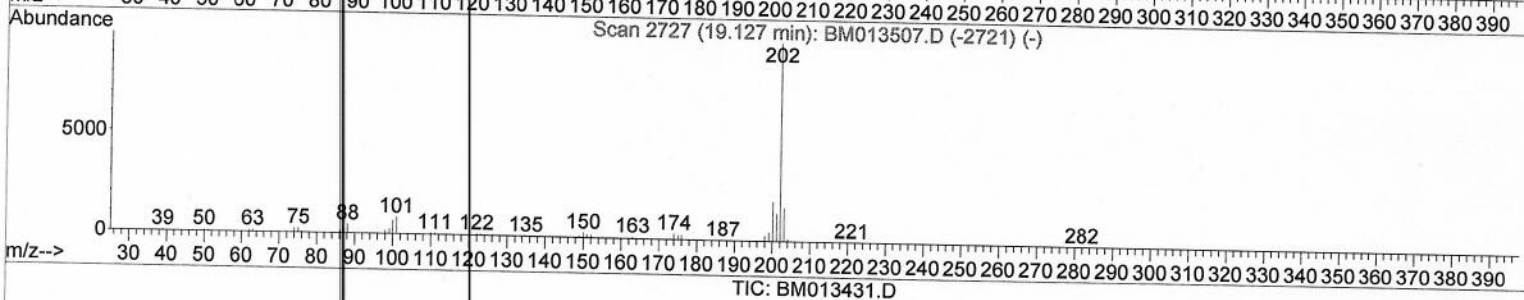
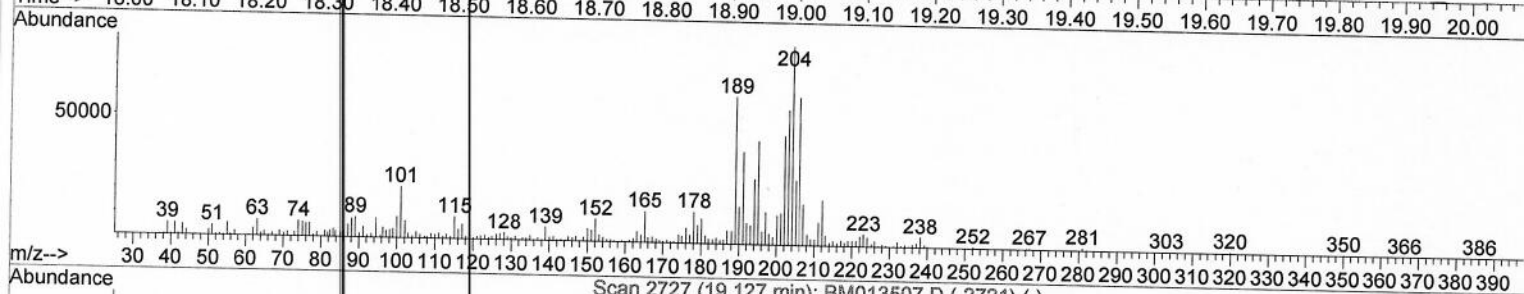
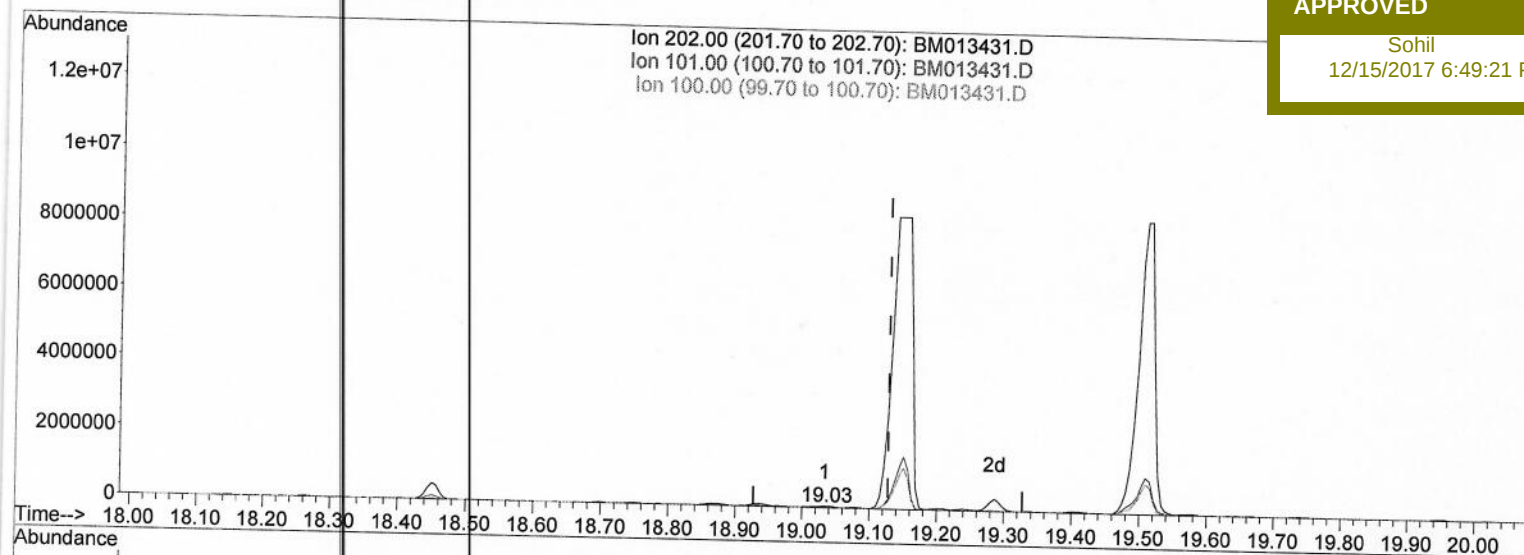
Data Path : Z:\HPCHEM1\BNA M\Data\BM121417\  
 Data File : BM013431.D  
 Acq On : 15 Dec 2017 08:58  
 Operator : SJ/JU  
 Sample : I6778-15  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 22 15:01:16 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 20 03:10:37 2017  
 Response via : Initial Calibration

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9A80

Manual Integrations  
 APPROVED

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 12/15/2017 6:49:21 PM



TIC: BM013431.D

(74) Fluoranthene (C)

19.033min (-0.094) 0.81ng/ul

response 83662

| Ion    | Exp% | Act%   |
|--------|------|--------|
| 202.00 | 100  | 100    |
| 101.00 | 5.80 | 47.29# |
| 100.00 | 4.30 | 20.08# |
| 0.00   | 0.00 | 0.00   |