

(LSC Reviewed)

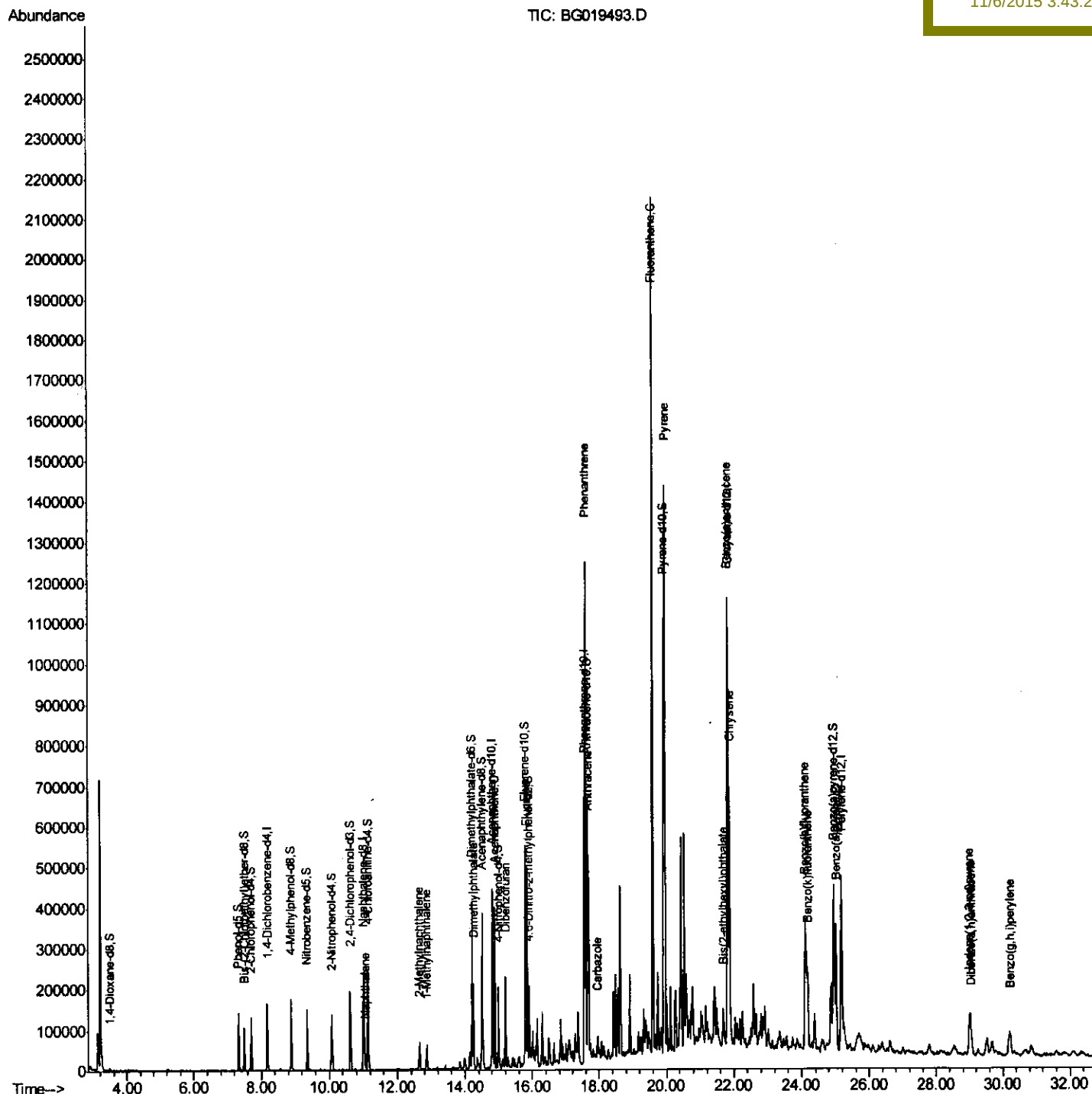
```
Data Path : Z:\HPCHEM1\BNA G\DATA\BG110515\
Data File : BG019493.D
Acq On    : 5 Nov 2015 15:28
Operator  : UM/NP
Sample    : G4273-07
Misc      :
ALS Vial  : 11      Sample Multiplier: 1
```

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
C0AP3

Quant Time: Nov 06 06:15:24 2015  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102815.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Nov 06 02:11:58 2015  
Response via : Initial Calibration

## Manual Integrations

Mmdadoda  
11/6/2015 3:43:22 PM



# Quantitation Report (Qedit)

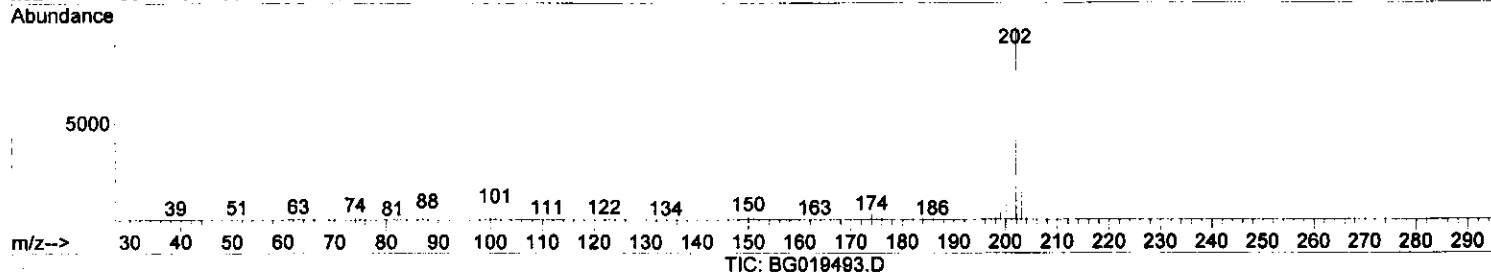
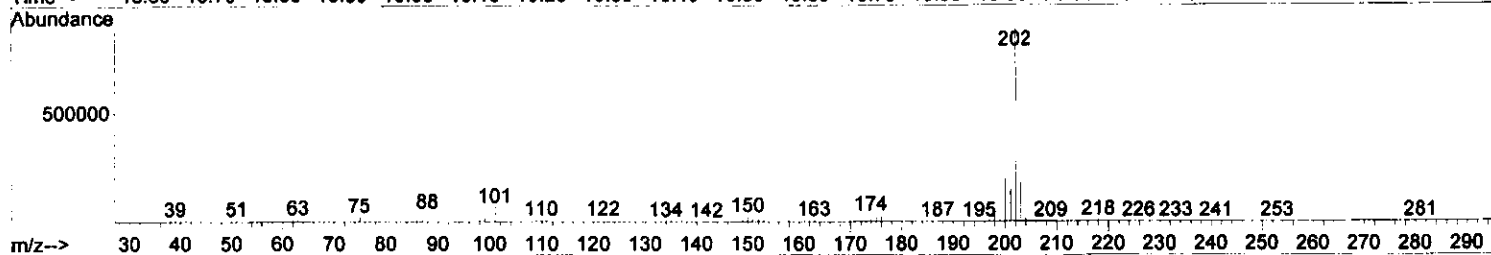
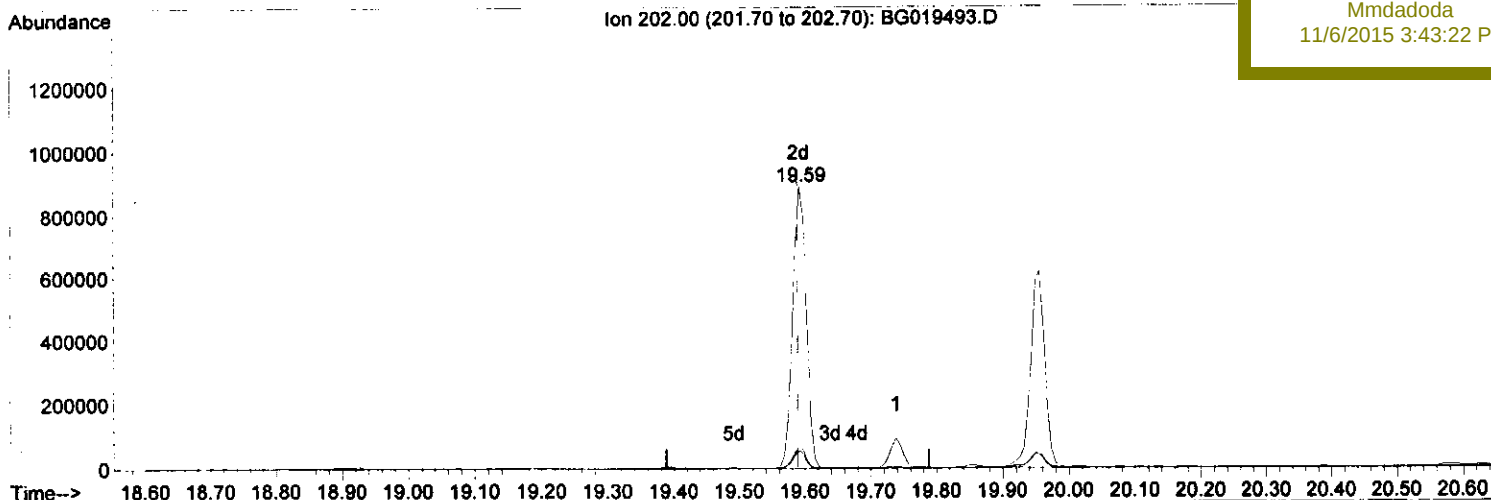
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
 Acq On : 5 Nov 2015 15:28  
 Operator : UM/NP  
 Sample : G4273-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 06 06:15:24 2015  
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 ClientSampleId :  
 C0AP3

Manual Integrations  
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(77) Fluoranthene (C)

19.592min (+0.003) 52.63ng/ul m

response 1282895

| Ion    | Exp% | Act%  |
|--------|------|-------|
| 202.00 | 100  | 100   |
| 101.00 | 5.00 | 7.59# |
| 100.00 | 4.50 | 6.31# |
| 0.00   | 0.00 | 0.00  |

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# Quantitation Report (Qedit)

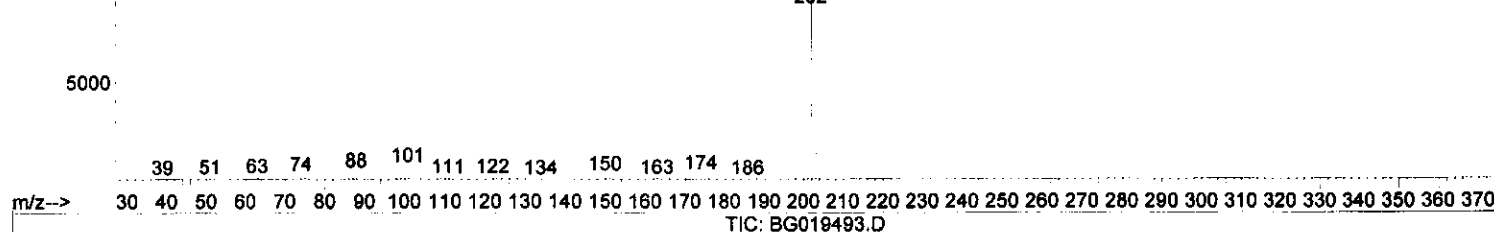
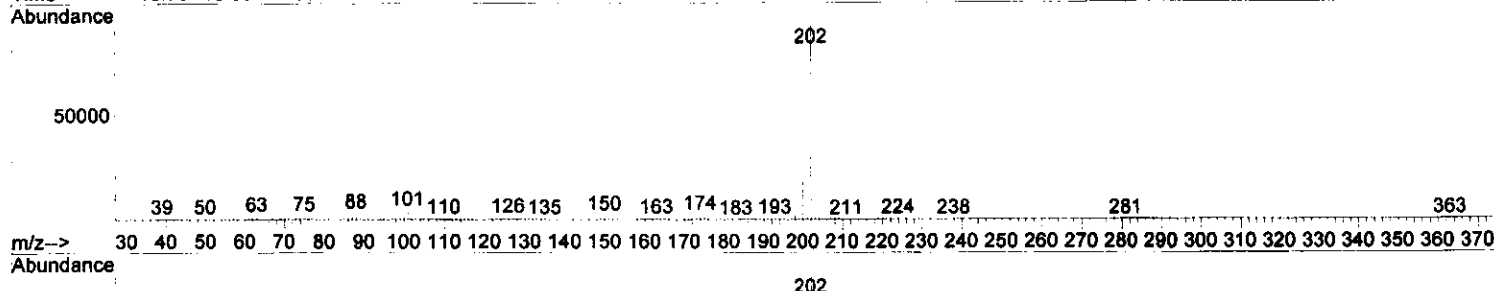
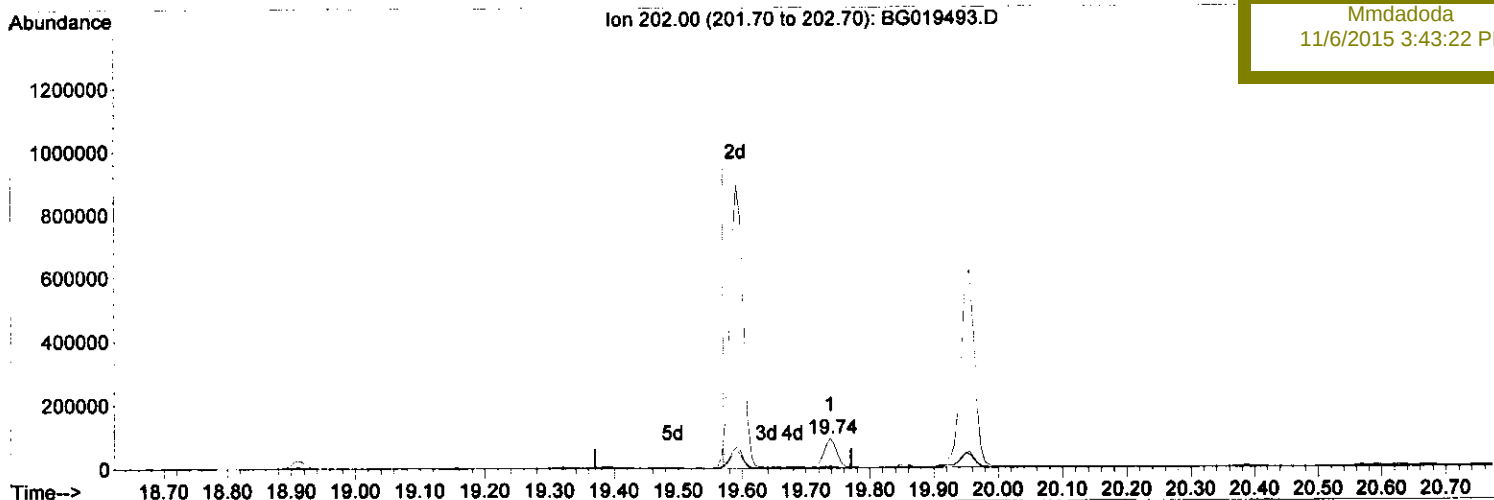
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
 Acq On : 5 Nov 2015 15:28  
 Operator : UM/NP  
 Sample : G4273-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 18 09:21:45 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102815.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 16 03:12:59 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0AP3

Manual Integrations  
 APPROVED

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(77) Fluoranthene (C)

19.738min (+0.168) 5.08ng/ul

response 123873

| Ion    | Exp% | Act% |
|--------|------|------|
| 202.00 | 100  | 100  |
| 101.00 | 5.00 | 5.01 |
| 100.00 | 4.50 | 4.15 |
| 0.00   | 0.00 | 0.00 |

# Quantitation Report (Qedit)

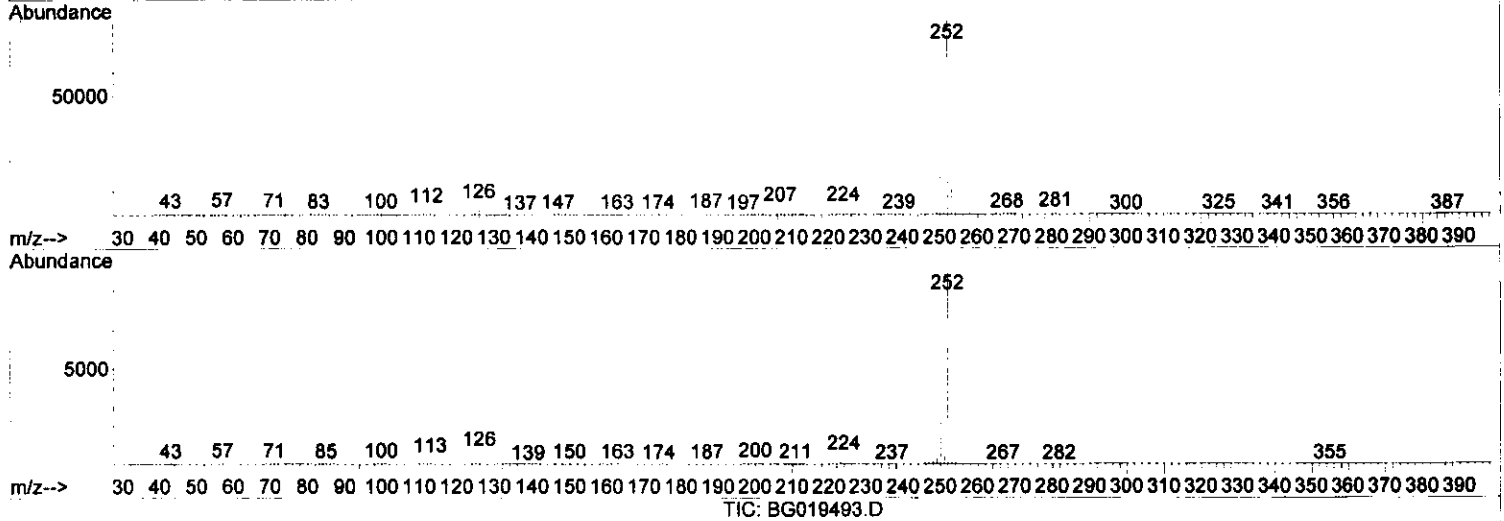
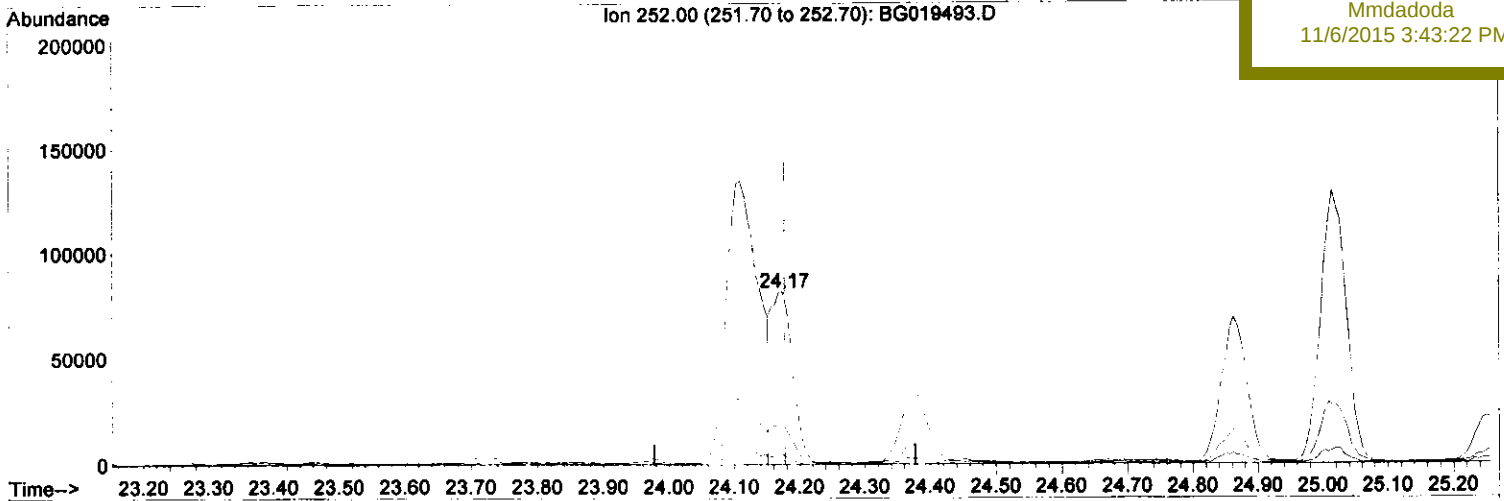
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
 Acq On : 5 Nov 2015 15:28  
 Operator : UM/NP  
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Manual Integrations  
 APPROVED

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(89) Benzo(k)fluoranthene

24.174min (-0.003) 6.84ng/ul m

response 187191

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.50 | 23.43 |
| 125.00 | 3.90  | 5.24# |
| 0.00   | 0.00  | 0.00  |

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# Quantitation Report (Qedit)

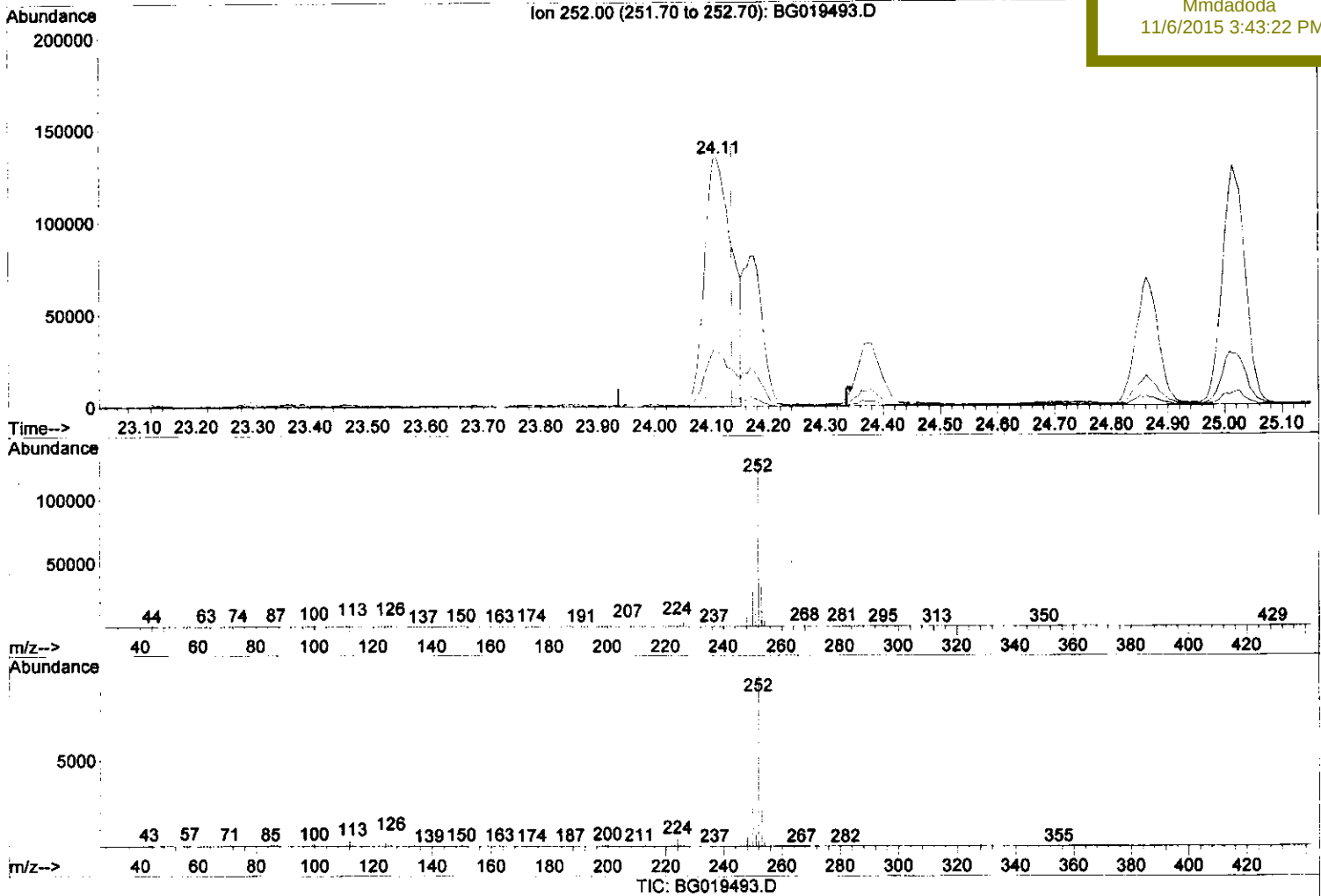
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
 Acq On : 5 Nov 2015 15:28  
 Operator : UM/NP  
 Sample : G4273-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 18 09:21:45 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102815.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Nov 16 03:12:59 2015  
 Response via : Initial Calibration

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0AP3

Manual Integrations  
 APPROVED

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(89) Benzo(k)fluoranthene

24.110min (-0.026) 16.60ng/ul

response 454646

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 21.50 | 23.24 |
| 125.00 | 3.90  | 4.34  |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

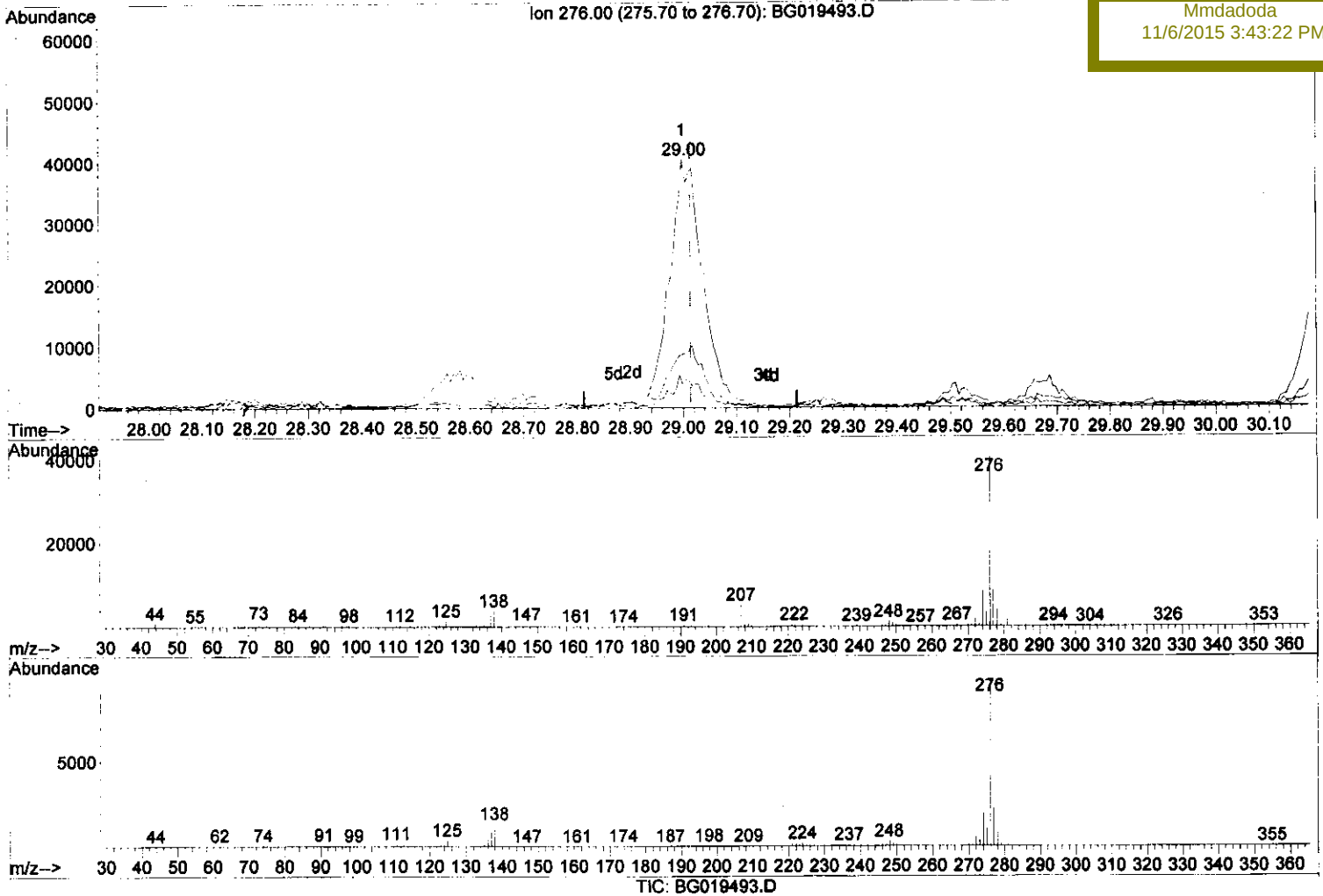
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
 Acq On : 5 Nov 2015 15:28  
 Operator : UM/NP  
 Sample : G4273-07  
 Misc :  
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 APPROVED

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

28.998min (-0.014) 5.79ng/ul m

response 178182

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 7.80  | 9.67# |
| 277.00 | 22.40 | 21.47 |
| 0.00   | 0.00  | 0.00  |

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# Quantitation Report (Qedit)

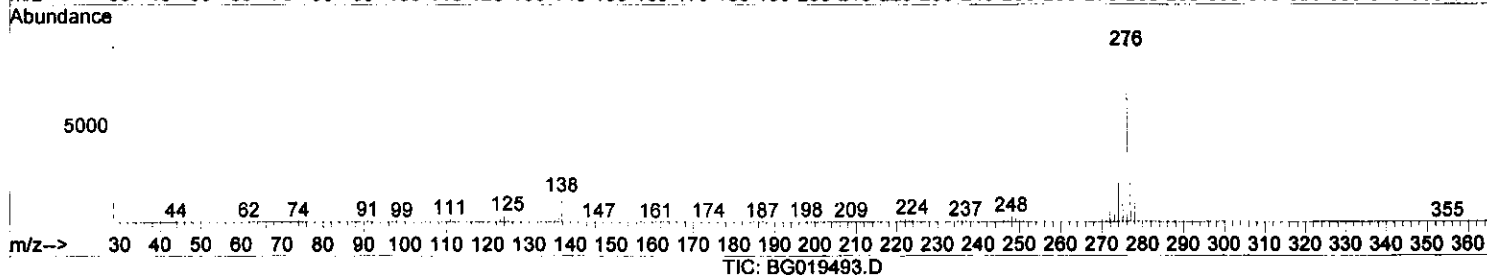
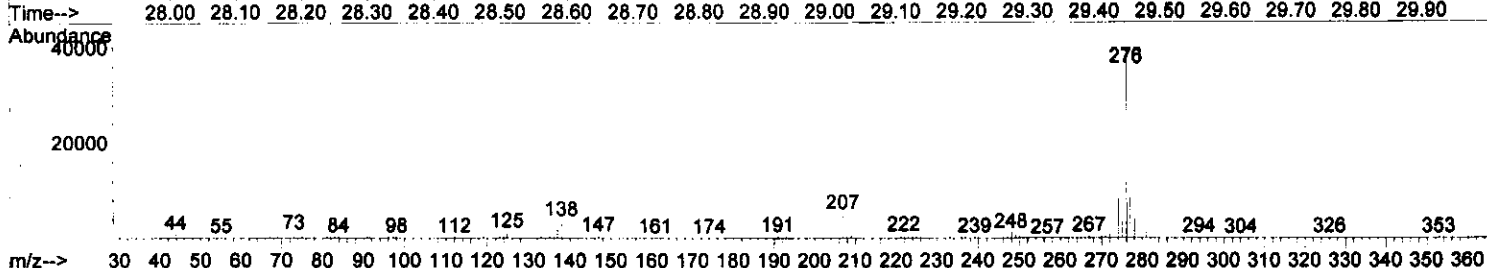
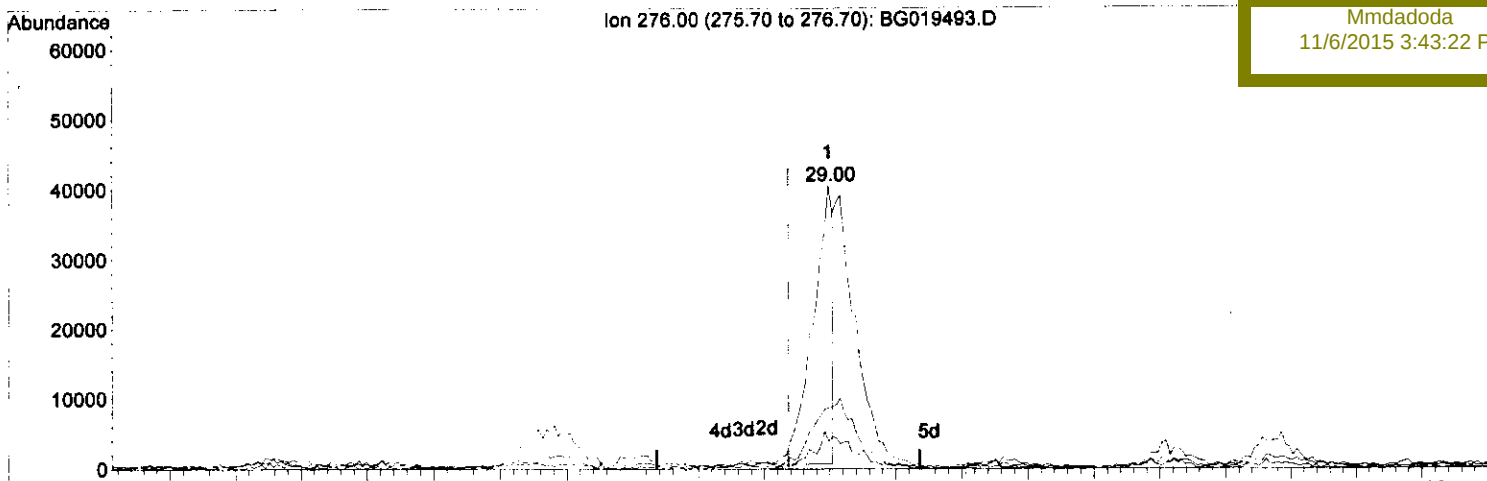
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
 Acq On : 5 Nov 2015 15:28  
 Operator : UM/NP  
 Sample : G4273-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 18 09:21:45 2015  
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 QLast Update : Mon Nov 16 03:12:59 2015  
 Response via : Initial Calibration

Instrument :  
 BNA G  
 ClientSampleId :  
 COAP3

Manual Integrations  
 APPROVED

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 11/6/2015 3:43:22 PM



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

28.998min (+0.062) 2.73ng/ul

response 84165

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 7.80  | 9.67# |
| 277.00 | 22.40 | 21.47 |
| 0.00   | 0.00  | 0.00  |

# Quantitation Report (Qedit)

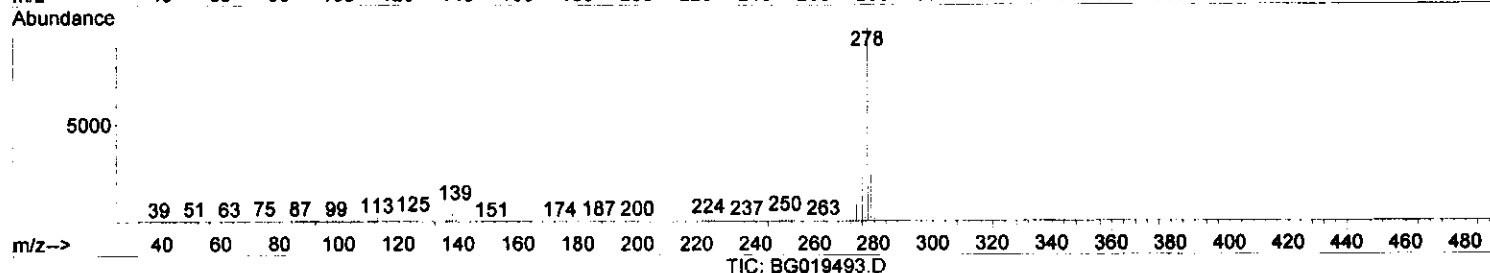
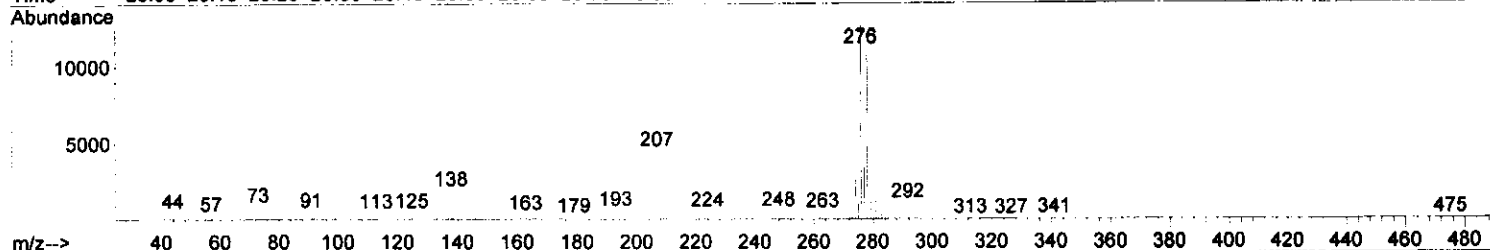
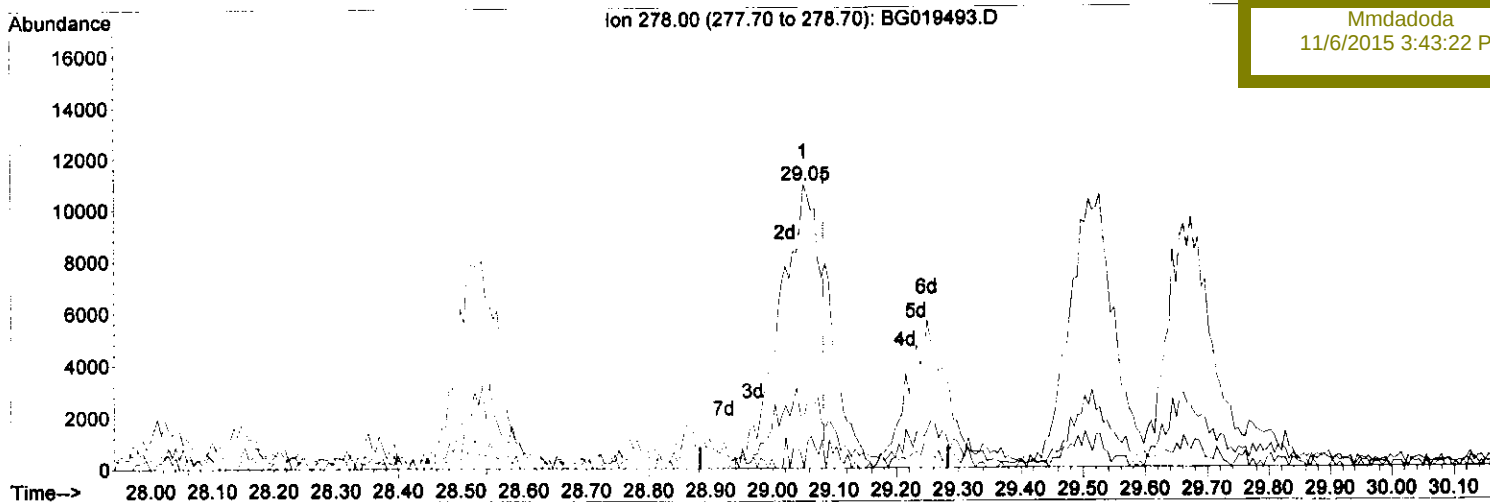
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
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 Operator : UM/NP  
 Sample : G4273-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

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(93) Dibenzo(a,h)anthracene

29.051min (-0.032) 2.32ng/ul m

response 59585

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 7.20  | 0.00#  |
| 279.00 | 25.40 | 17.41# |
| 0.00   | 0.00  | 0.00   |

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# Quantitation Report (Qedit)

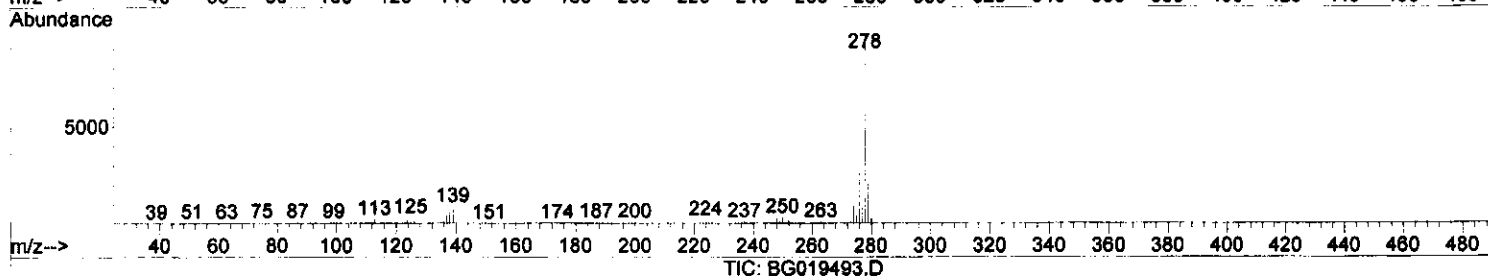
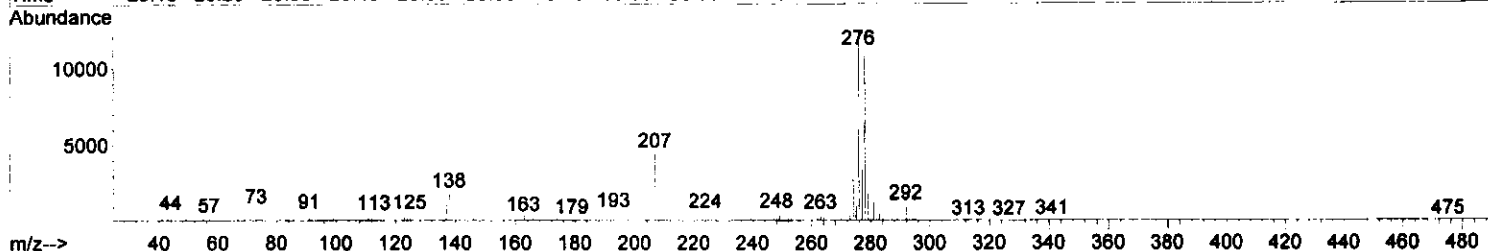
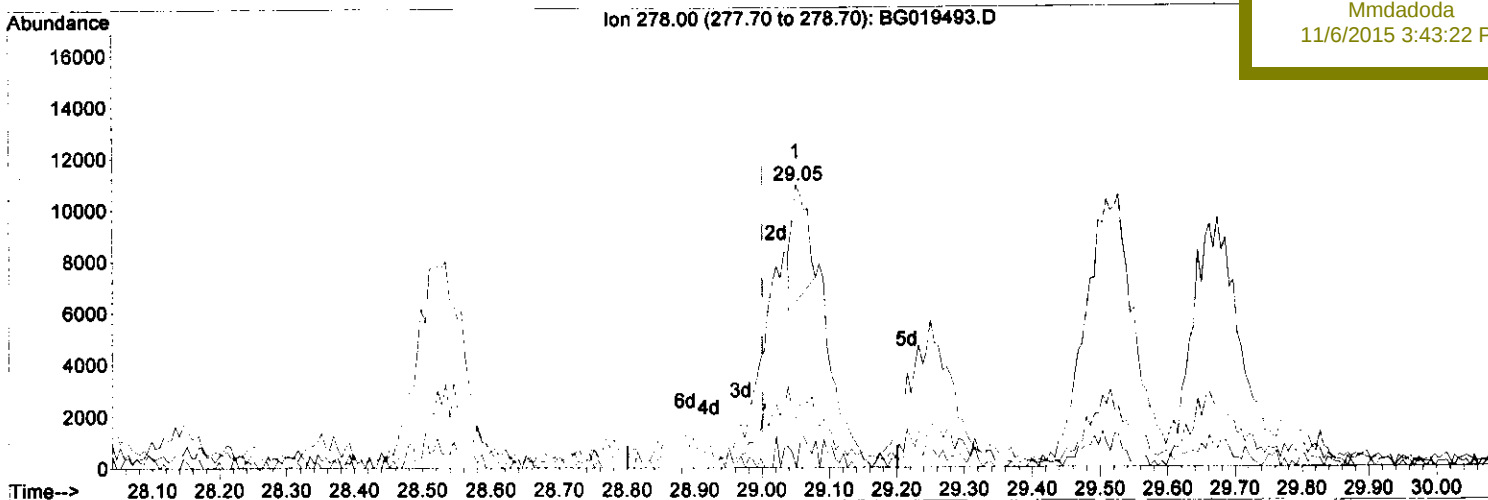
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
 Acq On : 5 Nov 2015 15:28  
 Operator : UM/NP  
 Sample : G4273-07  
 Misc :  
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 BNA\_G  
 ClientSampleId :  
 C0AP3

Manual Integrations  
 APPROVED

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 11/6/2015 3:43:22 PM



(93) Dibenzo(a,h)anthracene

29.051min (+0.050) 0.26ng/ul

response 6807

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 7.20  | 0.00#  |
| 279.00 | 25.40 | 17.41# |
| 0.00   | 0.00  | 0.00   |

# Quantitation Report (Qedit)

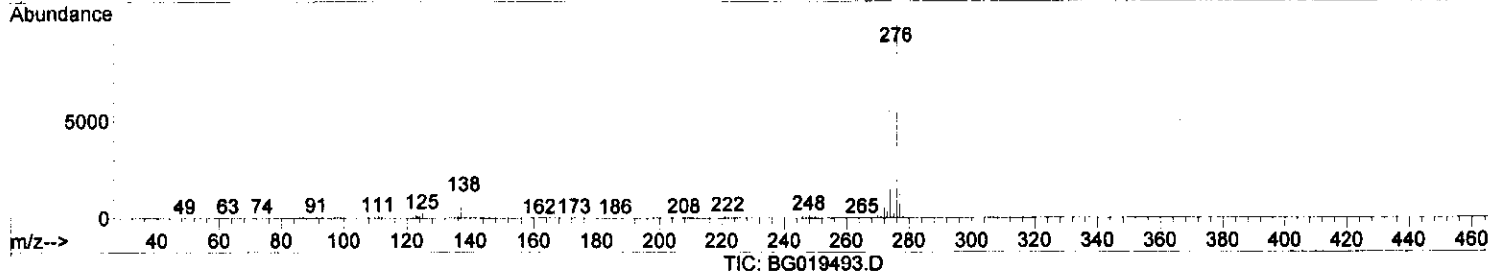
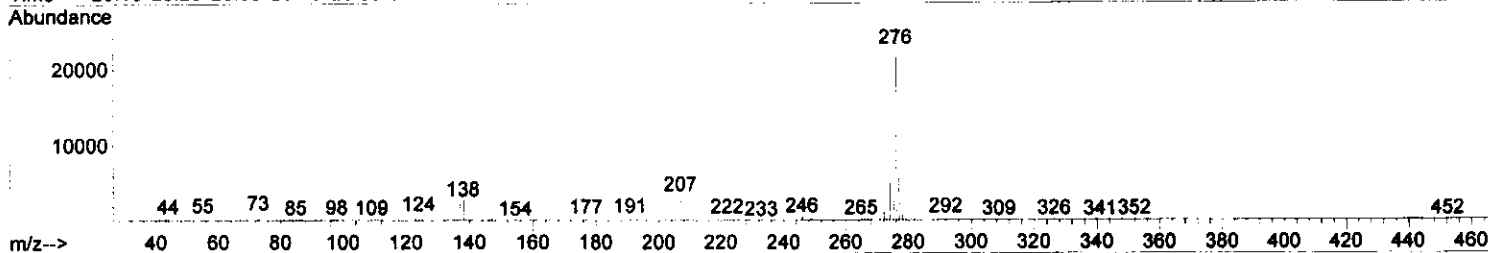
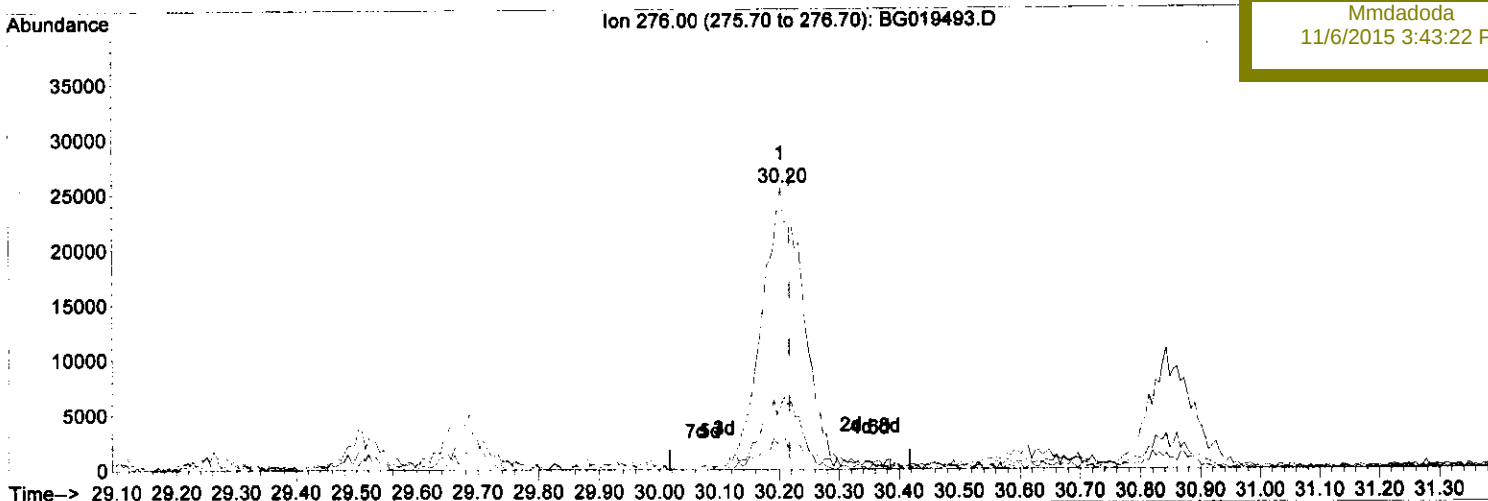
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
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 Operator : UM/NP  
 Sample : G4273-07  
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 ALS Vial : 11 Sample Multiplier: 1

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Manual Integrations  
 APPROVED

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 11/6/2015 3:43:22 PM



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

30.203min (-0.014) 5.45ng/ul

response 127349

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 7.00  | 10.82# |
| 277.00 | 20.00 | 22.52  |
| 0.00   | 0.00  | 0.00   |

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 11/19/15

# Quantitation Report (Qedit)

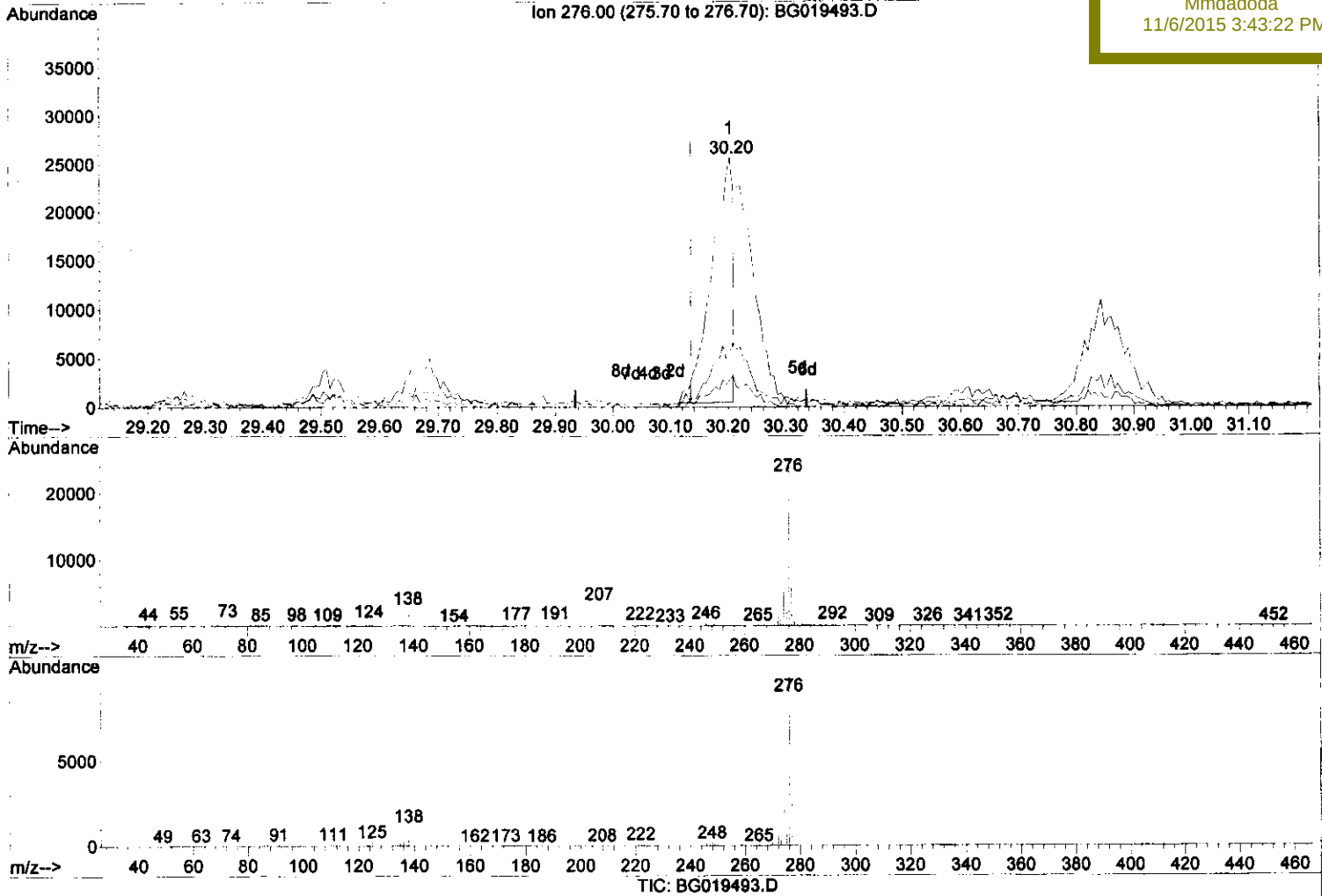
Data Path : Z:\HPCHEM1\BNA G\Data\BG110515\  
 Data File : BG019493.D  
 Acq On : 5 Nov 2015 15:28  
 Operator : UM/NP  
 Sample : G4273-07  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

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 BNA\_G  
 ClientSampleId :  
 COAP3

Manual Integrations  
 APPROVED

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 11/6/2015 3:43:22 PM



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

30.203min (+0.068) 2.76ng/ul

response 64558

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 276.00 | 100   | 100    |
| 138.00 | 7.00  | 10.82# |
| 277.00 | 20.00 | 22.52  |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110515\  
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 11/6/2015 3:43:22 PM

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.18  | 152  | 43554    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.01 | 136  | 177770   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.81 | 164  | 141160   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.55 | 188  | 373068   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.83 | 240  | 491973   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.18 | 264  | 482450   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.49  | 96  | 3312   | 3.64  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.32  | 99  | 78845  | 19.72 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.49  | 67  | 53677  | 21.18 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.71  | 132 | 47886  | 19.19 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.88  | 113 | 63367  | 19.90 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.35  | 128 | 26404  | 20.21 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.08 | 143 | 33335  | 21.49 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.62 | 165 | 65008  | 19.32 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.14 | 131 | 109897 | 32.29 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.20 | 166 | 236703 | 20.34 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.50 | 160 | 263355 | 20.43 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.99 | 143 | 33477  | 18.11 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.80 | 176 | 210319 | 19.53 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.90 | 200 | 43182  | 17.88 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.65 | 188 | 352203 | 20.71 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.93 | 212 | 424646 | 19.72 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.94 | 264 | 483225 | 19.96 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |          |       |        | Ovalue |
|--------------------------------|-------|-----|----------|-------|--------|--------|
| 28) Naphthalene                | 11.06 | 128 | 11339    | 1.27  | ng/ul  | 96     |
| 34) 2-Methylnaphthalene        | 12.65 | 142 | 29725    | 4.16  | ng/ul  | 99     |
| 35) 1-Methylnaphthalene        | 12.87 | 142 | 27217    | 4.02  | ng/ul# | 95     |
| 45) Dimethylphthalate          | 14.25 | 163 | 123879   | 10.41 | ng/ul  | 98     |
| 50) Acenaphthene               | 14.87 | 153 | 158347   | 17.76 | ng/ul  | 98     |
| 54) Dibenzofuran               | 15.20 | 168 | 113694   | 8.66  | ng/ul  | 97     |
| 59) Fluorene                   | 15.85 | 166 | 202170   | 17.65 | ng/ul  | 97     |
| 70) Phenanthrene               | 17.59 | 178 | 727516   | 38.64 | ng/ul  | 96     |
| 72) Anthracene                 | 17.68 | 178 | 314856   | 16.41 | ng/ul  | 98     |
| 75) Carbazole                  | 17.95 | 167 | 26692    | 1.74  | ng/ul# | 92     |
| 77) Fluoranthene               | 19.59 | 202 | 1282895m | 52.63 | ng/ul  |        |
| 80) Pyrene                     | 19.96 | 202 | 923197   | 33.44 | ng/ul# | 93     |
| 83) Benzo(a)anthracene         | 21.81 | 228 | 557186   | 19.45 | ng/ul  | 96     |
| 84) Bis(2-ethylhexyl)phthalate | 21.69 | 149 | 20159    | 1.58  | ng/ul  | 94     |
| 85) Chrysene                   | 21.88 | 228 | 463140   | 17.23 | ng/ul  | 99     |
| 88) Benzo(b)fluoranthene       | 24.11 | 252 | 454646   | 15.98 | ng/ul# | 96     |
| 89) Benzo(k)fluoranthene       | 24.17 | 252 | 187191m  | 6.84  | ng/ul  |        |
| 91) Benzo(a)pyrene             | 25.01 | 252 | 354201   | 12.96 | ng/ul# | 97     |
| 92) Indeno(1,2,3-cd)pyrene     | 29.00 | 276 | 178182m  | 5.79  | ng/ul  |        |
| 93) Dibenzo(a,h)anthracene     | 29.05 | 278 | 59585m   | 2.32  | ng/ul  |        |
| 94) Benzo(a,h,i)perylene       | 30.20 | 276 | 127349m  | 5.45  | ng/ul  |        |

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Misc :  
ALS Vial : 11 Sample Multiplier: 1

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Quant Title : SVOA CALIBRATION  
QLast Update : Fri Nov 06 02:11:58 2015  
Response via : Initial Calibration

Manual Integration  
APPROVED

Mmdadoda  
11/6/2015 3:43:22 PM

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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