

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
C0B40

mohammad  
11/23/2020 1:28:48 PM

TIC: BG047362.D

Abundance

850000

800000

750000

700000

650000

600000

550000

500000

450000

400000

350000

300000

250000

200000

150000

100000

50000

0

4.00 6.00 8.00 10.00 12.00 14.00 16.00 18.00 20.00 22.00 24.00 26.00 28.00 30.00 32.00

1,4-Dioxane-d8, S

Bis(2-chlorophenyl) ether-d8, S

2-chlorophenol-d4, S

1,4-dichlorobenzene-d4, I

4-methylphenol-d8, S

Nitrobenzene-d5, S

2-nitrophenol-d4, S

2,4-dichlorophenol-d3, S

4-chloroaniline-d4, S

Naphthalene-d8, I

Dimethylphthalate-d6, S

Acenaphthylene-d8, S

Acenaphthene-d10, I

Fluorene-d10, S

Anthracene-d10, S

Phenanthrene

Anthracene-d10, I

Fluorene-d10, S

Pyrene

Fluorene-d10, S

Pyrene-d10, S

Chrysene

Benzo(a)anthracene-d12, I

Benzo(b)fluoranthene

Benzo(a)pyrene-d12, S

Perylene-d12, I

Benzo(a,h,i)perylene

Benzo(g,h,i)perylene

Dibenz(a,h)anthracene-d12, S

Benzo(a)pyrene-d12, S

Benzo(a,h,i)perylene

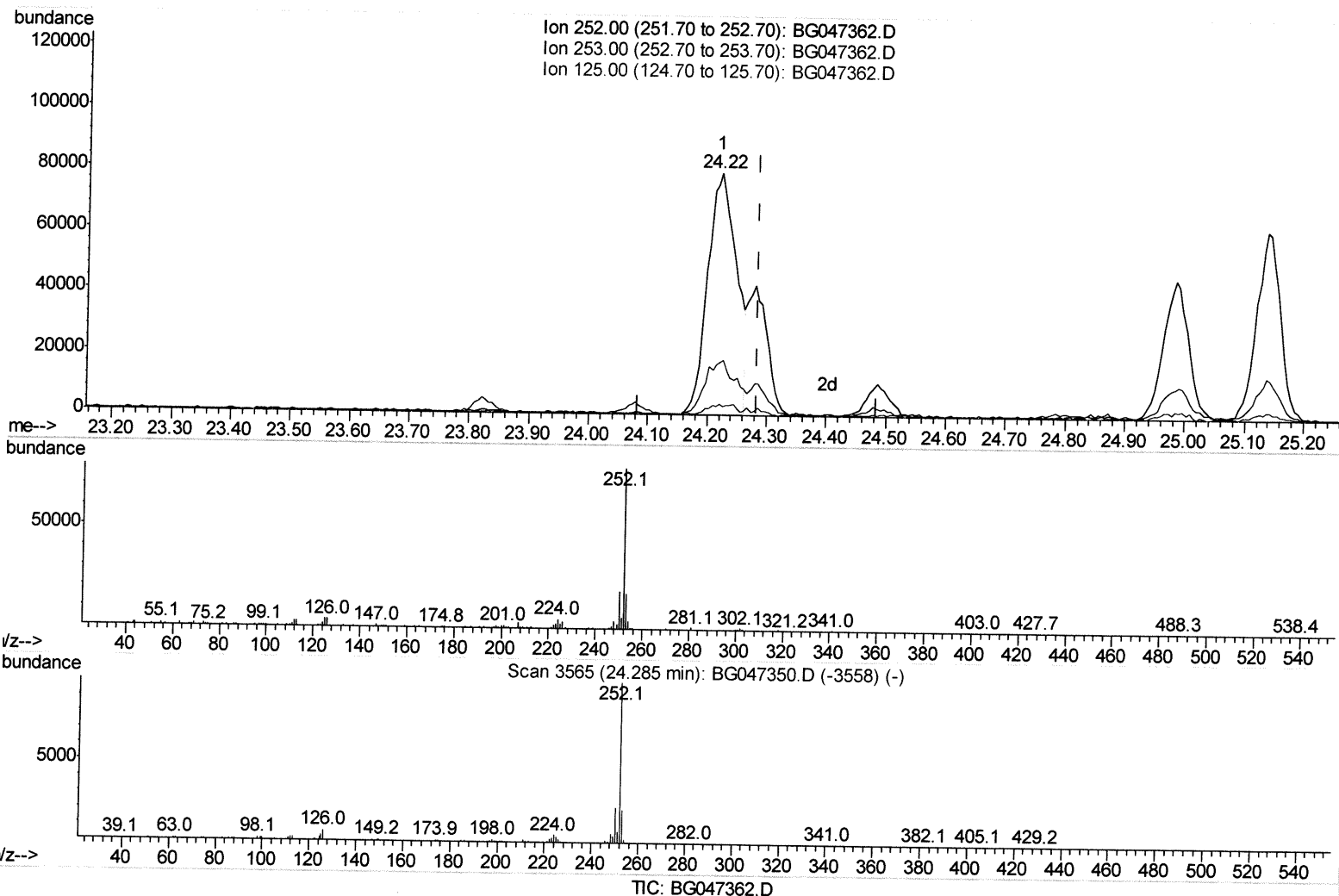
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111920\  
 Data File : BG047362.D  
 Acq On : 19 Nov 2020 21:24  
 Operator : CG/JU  
 Sample : L4710-14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampled :  
 C0B40

Manual Integrations  
 APPROVED

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Quant Time: Nov 20 04:02:39 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Nov 19 14:25:26 2020  
 Response via : Initial Calibration



(89) Benzo(k)fluoranthene

24.221min (-0.064) 12.12ng/ul

response 268084

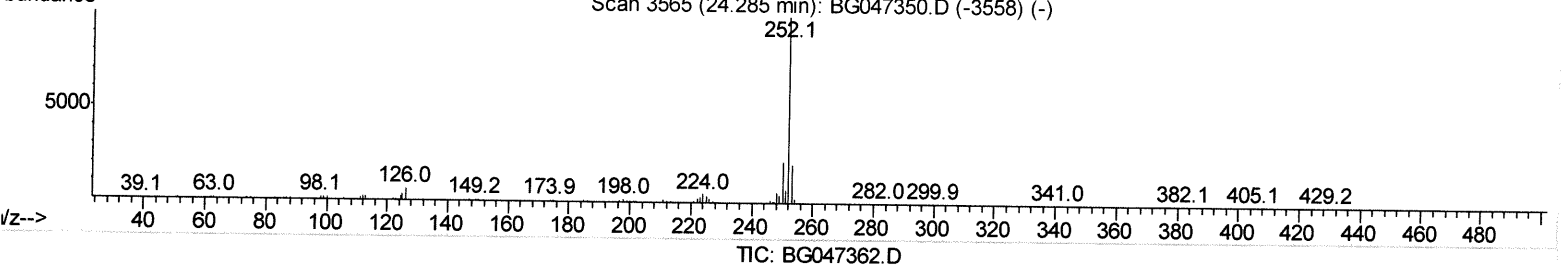
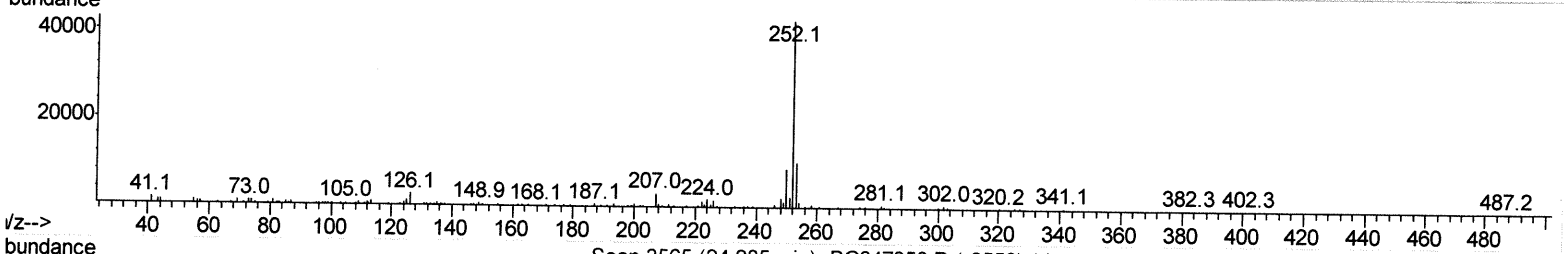
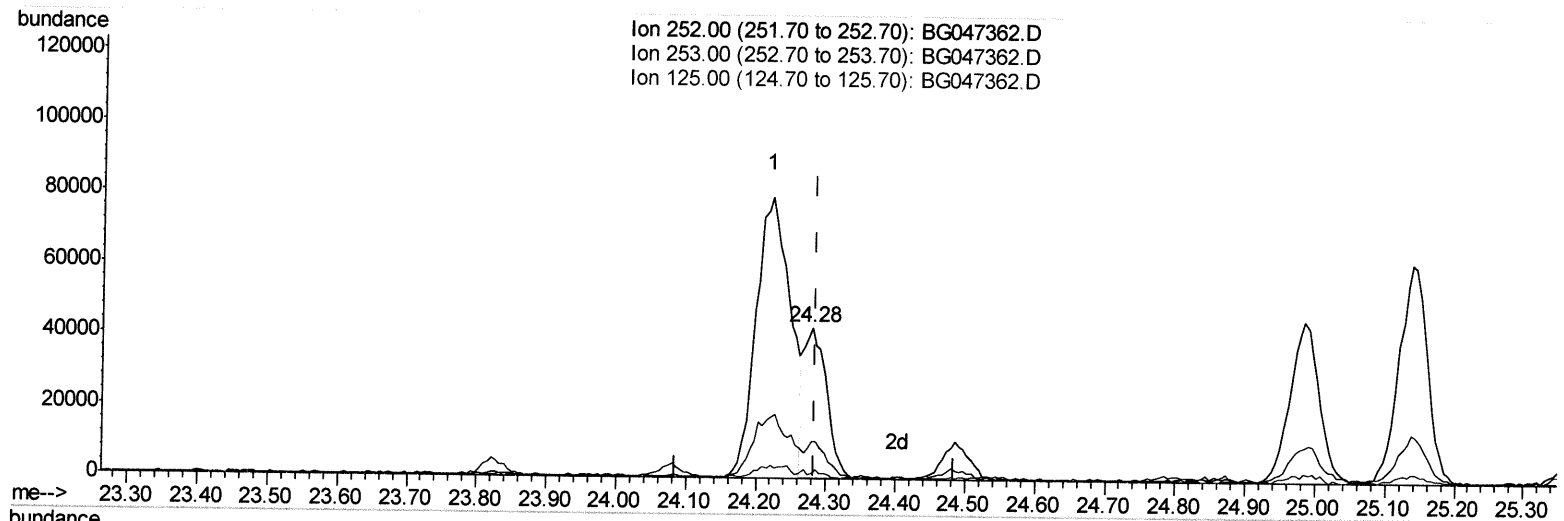
| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 20.90 | 21.93 |
| 125.00 | 3.20  | 4.71# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111920\  
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 Response via : Initial Calibration



(89) Benzo(k)fluoranthene

24.279min (-0.005) 4.30ng/ul m

response 95146

*JU 11/24/20*

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 252.00 | 100   | 100   |
| 253.00 | 20.90 | 24.49 |
| 125.00 | 3.20  | 3.43  |
| 0.00   | 0.00  | 0.00  |

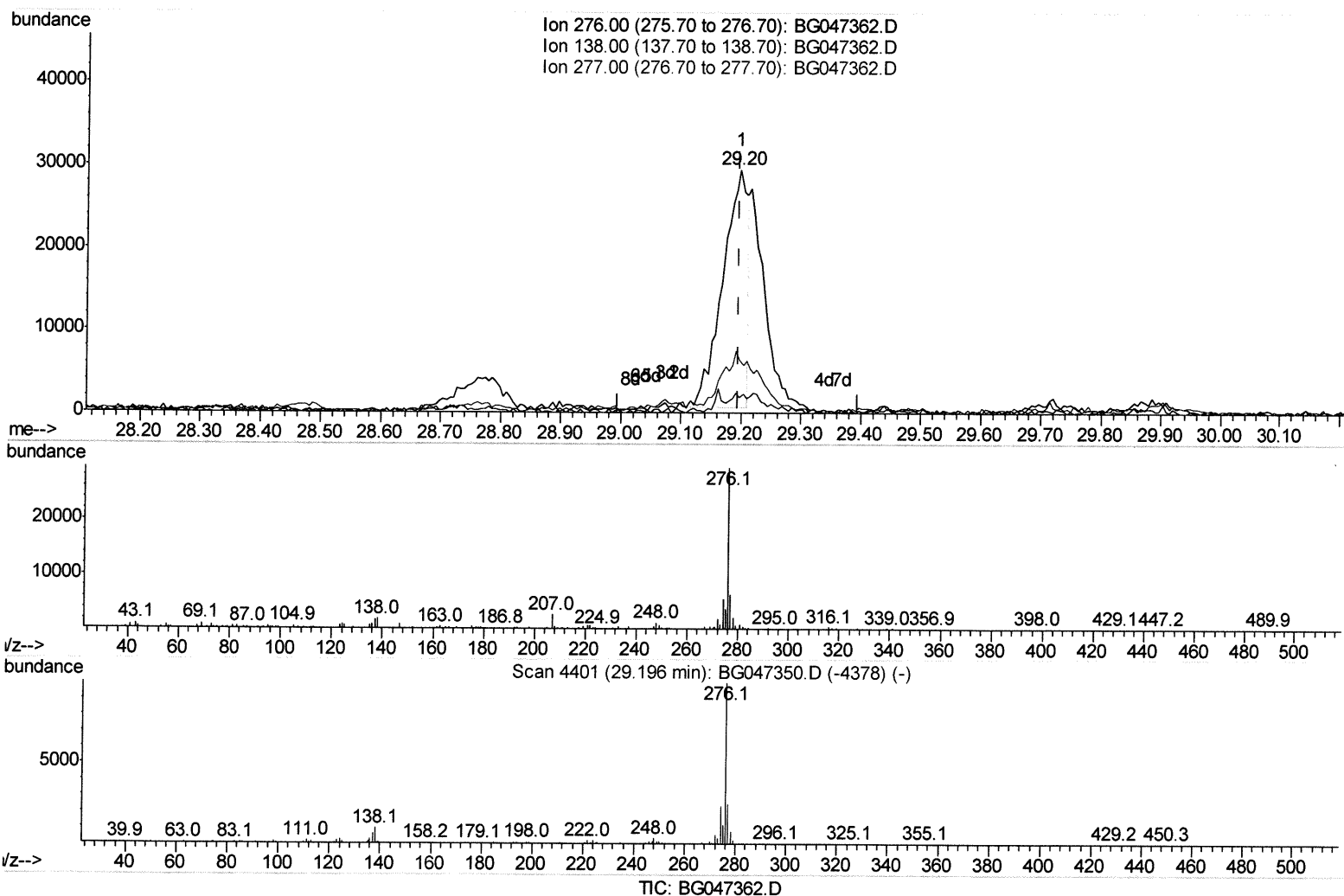
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111920\  
 Data File : BG047362.D  
 Acq On : 19 Nov 2020 21:24  
 Operator : CG/JU  
 Sample : L4710-14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0B40

Quant Time: Nov 20 04:41:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Nov 19 14:25:26 2020  
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Manual Integrations  
 APPROVED

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 11/23/2020 1:28:48 PM



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

29.197min (+0.001) 3.38ng/ul

response 82377

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 9.40  | 6.41# |
| 277.00 | 24.90 | 21.67 |
| 0.00   | 0.00  | 0.00  |

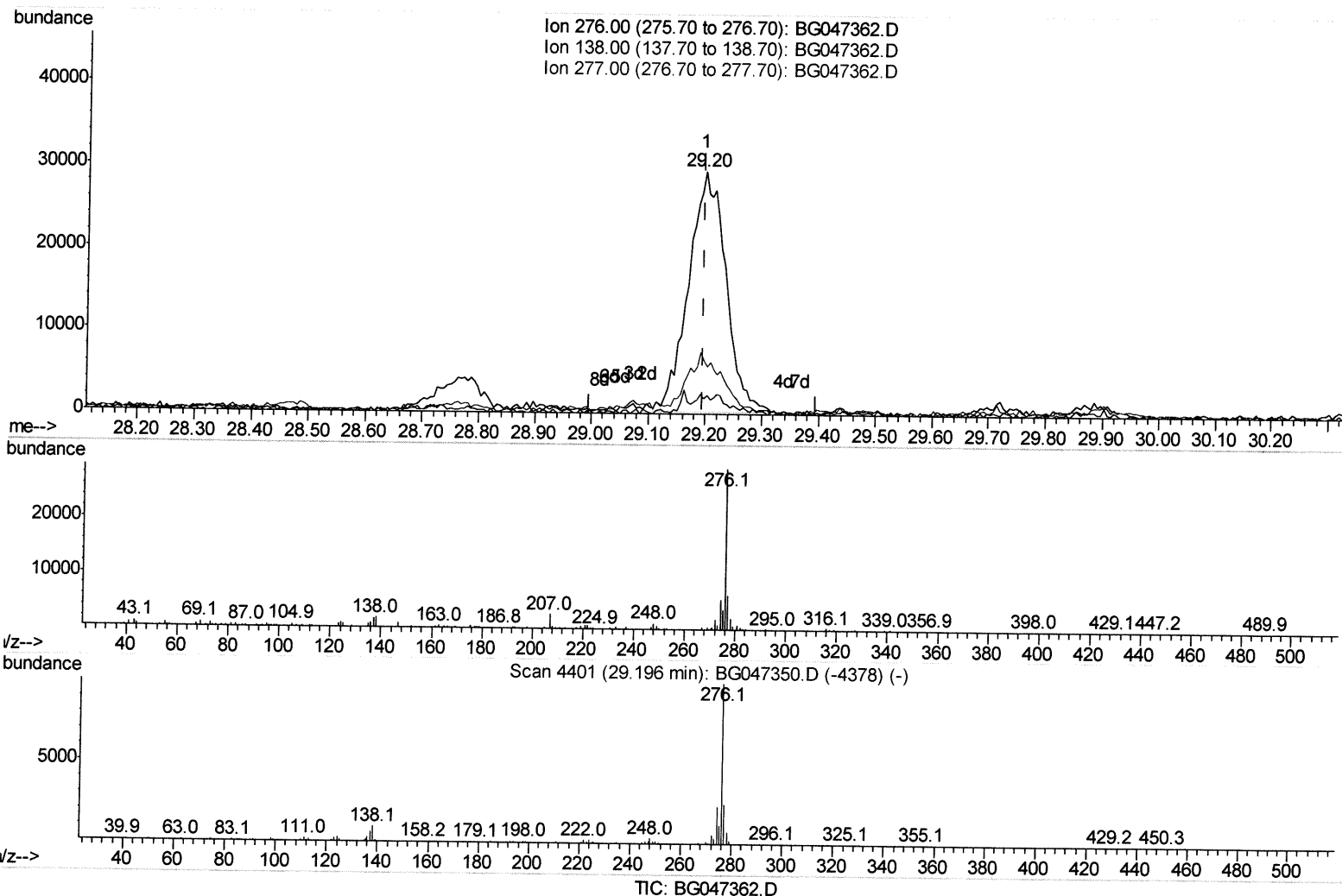
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111920\  
 Data File : BG047362.D  
 Acq On : 19 Nov 2020 21:24  
 Operator : CG/JU  
 Sample : L4710-14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
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Quant Time: Nov 20 04:41:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
 Quant Title : SVOA CALIBRATION  
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 Response via : Initial Calibration



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

29.197min (+0.001) 5.54ng/ul m

response 134861

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 9.40  | 6.41# |
| 277.00 | 24.90 | 21.67 |
| 0.00   | 0.00  | 0.00  |

JUN 24/20

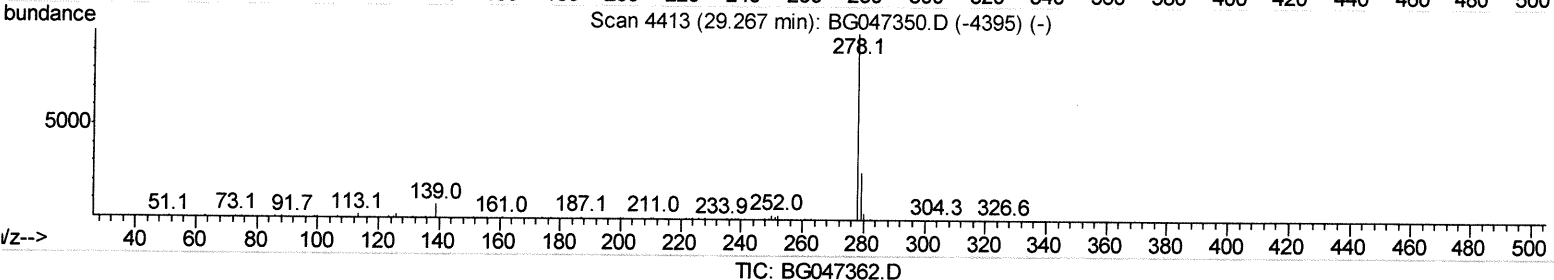
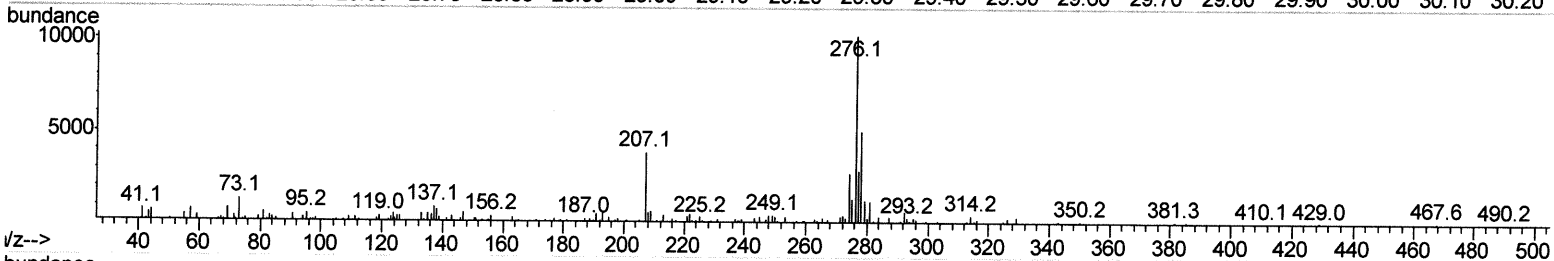
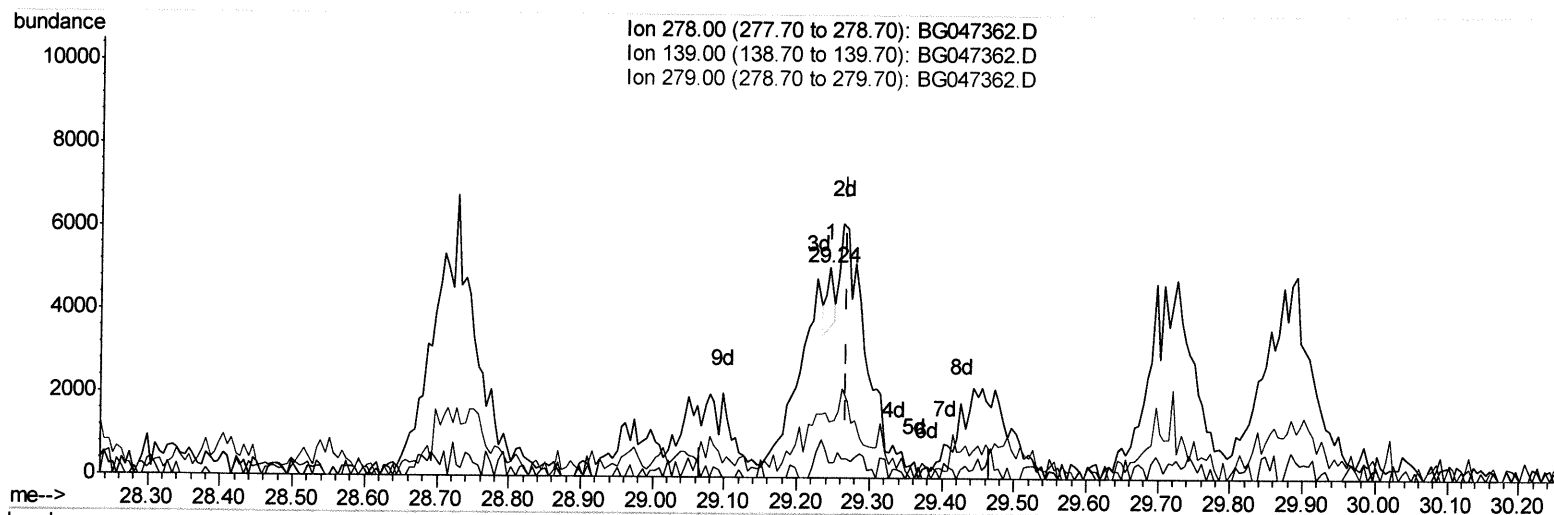
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111920\  
 Data File : BG047362.D  
 Acq On : 19 Nov 2020 21:24  
 Operator : CG/JU  
 Sample : L4710-14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0B40

Quant Time: Nov 20 04:49:44 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Nov 19 14:25:26 2020  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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 11/23/2020 1:28:48 PM



(93) Dibenzo(a,h)anthracene

29.244min (-0.023) 0.05ng/ul

response 1001

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 278.00 | 100   | 100   |
| 139.00 | 7.20  | 7.04  |
| 279.00 | 25.00 | 26.44 |
| 0.00   | 0.00  | 0.00  |

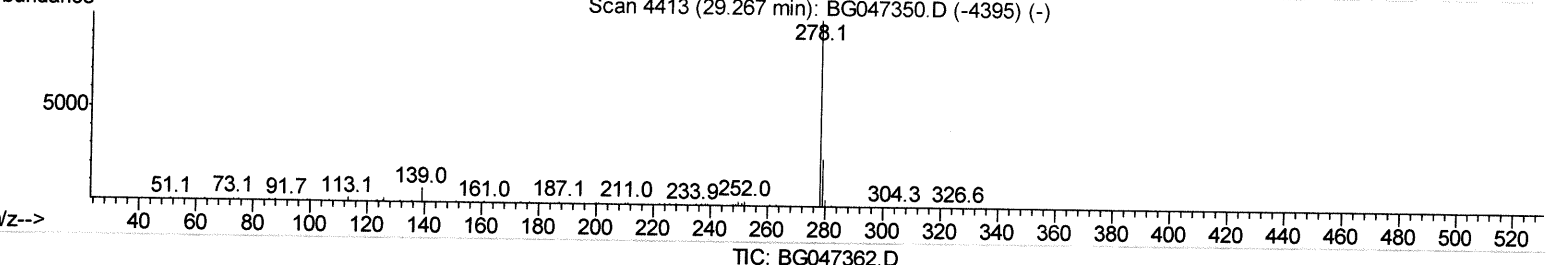
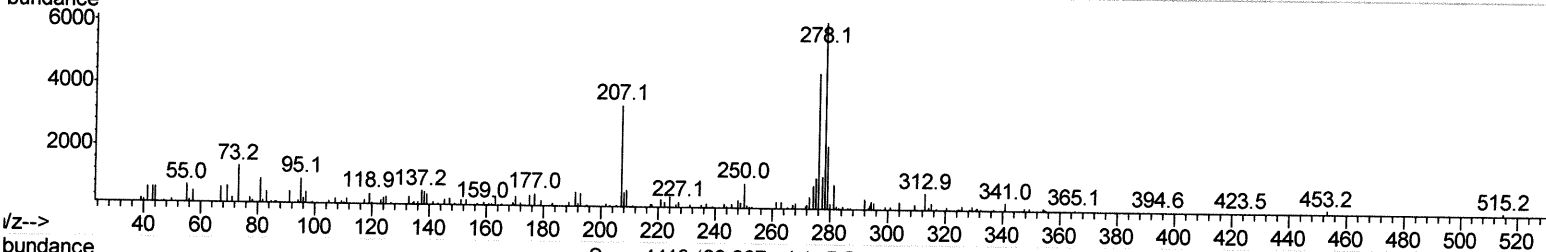
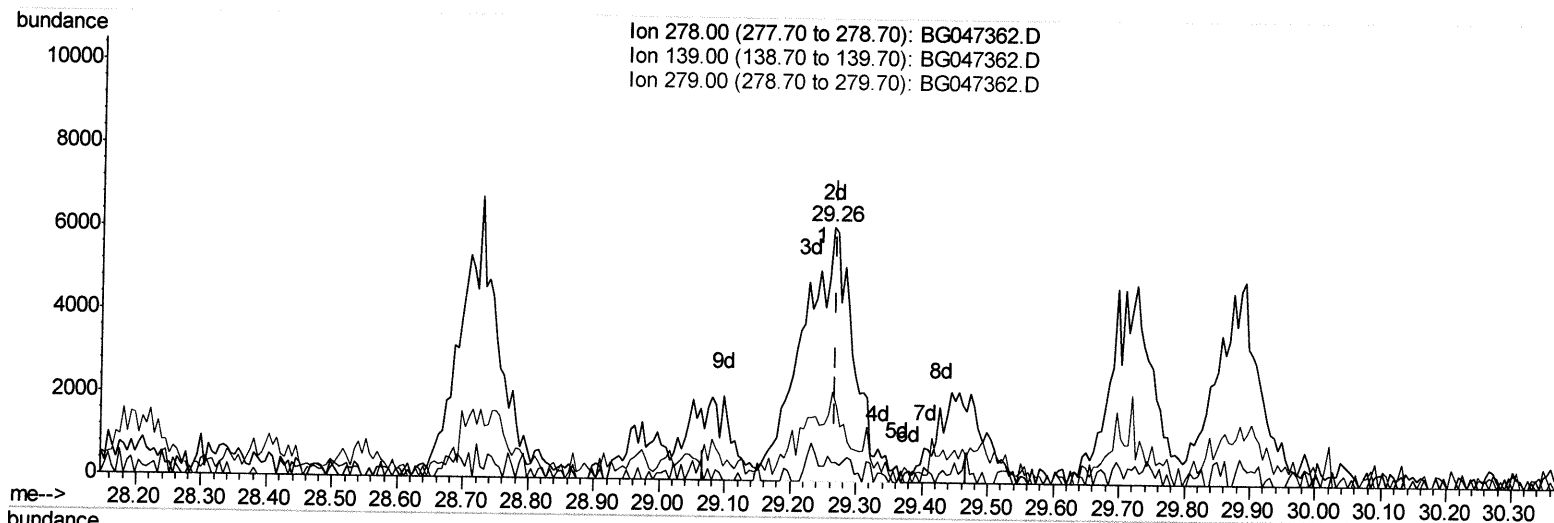
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111920\  
 Data File : BG047362.D  
 Acq On : 19 Nov 2020 21:24  
 Operator : CG/JU  
 Sample : L4710-14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0B40

Manual Integrations  
 APPROVED

mohammad  
 11/23/2020 1:28:48 PM

Quant Time: Nov 20 04:49:44 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Nov 19 14:25:26 2020  
 Response via : Initial Calibration



(93) Dibenzo(a,h)anthracene

29.262min (-0.005) 1.64ng/ul m

*JUL 24/20*

response 32653

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 278.00 | 100   | 100    |
| 139.00 | 7.20  | 7.72   |
| 279.00 | 25.00 | 35.30# |
| 0.00   | 0.00  | 0.00   |

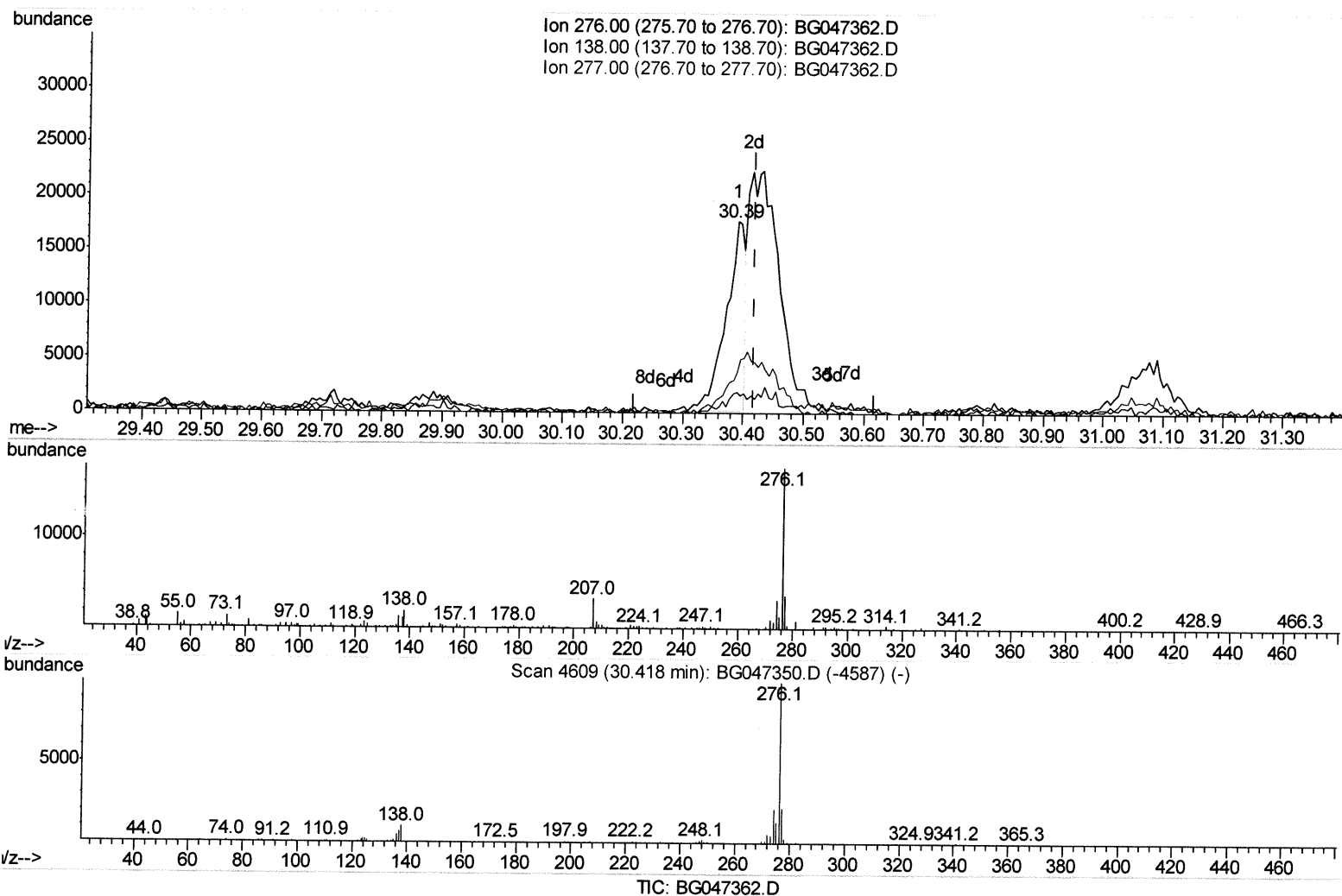
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 Data File : BG047362.D  
 Acq On : 19 Nov 2020 21:24  
 Operator : CG/JU  
 Sample : L4710-14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0B40

Manual Integrations  
 APPROVED

mohammad  
 11/23/2020 1:28:48 PM

Quant Time: Nov 20 04:49:44 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Nov 19 14:25:26 2020  
 Response via : Initial Calibration



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

30.390min (-0.029) 1.94ng/ul

response 38897

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 10.20 | 11.17 |
| 277.00 | 21.90 | 21.14 |
| 0.00   | 0.00  | 0.00  |

**Instrument :**  
BNA\_G  
**ClientSampleId :**  
C0B40

mohammad  
11/23/2020 1:28:48 PM

Ion 276.00 (275.70 to 276.70): BG047362.D  
Ion 138.00 (137.70 to 138.70): BG047362.D  
Ion 277.00 (276.70 to 277.70): BG047362.D

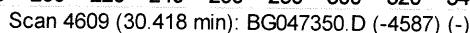
abundance

30000  
25000  
20000  
15000  
10000  
5000  
0

m/z--> 29.40 29.50 29.60 29.70 29.80 29.90 30.00 30.10 30.20 30.30 30.40 30.50 30.60 30.70 30.80 30.90 31.00 31.10 31.20 31.30 31.40

2d  
30.43  
1  
8d6d4d  
3d7d

Ion 276.00 (275.70 to 276.70): BG047362.D  
Ion 138.00 (137.70 to 138.70): BG047362.D  
Ion 277.00 (276.70 to 277.70): BG047362.D



30.431min (+0.013) 5.78ng/ul m

<sup>m</sup> 5411/24/70

|        |       |       |
|--------|-------|-------|
| 276.00 | 100   | 100   |
| 138.00 | 10.20 | 6.62# |
| 277.00 | 21.90 | 21.17 |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111920\  
 Data File : BG047362.D  
 Acq On : 19 Nov 2020 21:24  
 Operator : CG/JU  
 Sample : L4710-14  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0B40

Manual Integrations  
 APPROVED

mohammad  
 11/23/2020 1:28:48 PM

Quant Time: Nov 20 04:52:15 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG111920MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Nov 19 14:25:26 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.27  | 152  | 48915    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.10 | 136  | 197824   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.88 | 164  | 148753   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.62 | 188  | 348478   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.90 | 240  | 303505   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.30 | 264  | 317968   | 20.00 | ng/ul | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.62  | 96  | 2086   | 1.55  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.41  | 99  | 61817  | 12.60 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.58  | 67  | 42952  | 15.35 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.80  | 132 | 48378  | 14.70 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.96  | 113 | 37156  | 9.86  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.43  | 128 | 25057  | 15.33 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.17 | 143 | 29242  | 16.40 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.71 | 165 | 59666  | 14.62 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.22 | 131 | 51463  | 12.47 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.28 | 166 | 191957 | 15.03 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.58 | 160 | 252427 | 17.10 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 15.03 | 143 | 13282  | 6.82  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.87 | 176 | 183252 | 15.67 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.97 | 200 | 19603  | 9.88  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.72 | 188 | 281571 | 16.29 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.98 | 212 | 313613 | 17.76 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 25.07 | 264 | 306674 | 16.76 | ng/ul | 0.00 |

#### Target Compounds

|                                |       |     |         |        |        | Ovalue |
|--------------------------------|-------|-----|---------|--------|--------|--------|
| 45) Dimethylphthalate          | 14.32 | 163 | 83263   | 6.392  | ng/ul  | 98     |
| 70) Phenanthrene               | 17.66 | 178 | 153850  | 8.175  | ng/ul  | 98     |
| 72) Anthracene                 | 17.75 | 178 | 23681   | 1.250  | ng/ul  | 95     |
| 75) Carbazole                  | 18.00 | 167 | 15473   | 1.012  | ng/ul# | 92     |
| 77) Fluoranthene               | 19.65 | 202 | 442431  | 18.616 | ng/ul  | 99     |
| 80) Pyrene                     | 20.01 | 202 | 346537  | 16.119 | ng/ul  | 99     |
| 83) Benzo(a)anthracene         | 21.88 | 228 | 176180  | 8.158  | ng/ul  | 99     |
| 84) Bis(2-ethylhexyl)phthalate | 21.78 | 149 | 21440   | 2.037  | ng/ul# | 87     |
| 85) Chrysene                   | 21.95 | 228 | 198238  | 9.646  | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene       | 24.22 | 252 | 268084  | 11.941 | ng/ul# | 97     |
| 89) Benzo(k)fluoranthene       | 24.28 | 252 | 95146m  | 4.301  | ng/ul  | 100    |
| 91) Benzo(a)pyrene             | 25.14 | 252 | 172469  | 8.618  | ng/ul  | 100    |
| 92) Indeno(1,2,3-cd)pyrene     | 29.20 | 276 | 134861m | 5.540  | ng/ul  |        |
| 93) Dibenzo(a,h)anthracene     | 29.26 | 278 | 32653m  | 1.636  | ng/ul  |        |
| 94) Benzo(a,h,i)perylene       | 30.43 | 276 | 116176m | 5.784  | ng/ul  |        |

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