

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
 Data File : BG041482.D  
 Acq On : 27 Jun 2019 9:18  
 Operator : HP/JU  
 Sample : K3484-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WASTE-SLUDGE

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG062619.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.866       | 128           | 132         | 140          | rVB3     | 15384          | 28496         | 2.65%           | 0.374%        |
| 2         | 4.559       | 246           | 250         | 256          | rBV      | 42104          | 60416         | 5.62%           | 0.793%        |
| 3         | 5.094       | 334           | 341         | 346          | rBV2     | 19163          | 35334         | 3.29%           | 0.464%        |
| 4         | 7.080       | 674           | 679         | 684          | rVB      | 29015          | 39277         | 3.66%           | 0.516%        |
| 5         | 8.032       | 834           | 841         | 848          | rBV      | 100590         | 177399        | 16.51%          | 2.329%        |
| 6         | 8.349       | 889           | 895         | 904          | rBV      | 197535         | 350497        | 32.62%          | 4.601%        |
| 7         | 9.213       | 1035          | 1042        | 1054         | rBV      | 159006         | 306827        | 28.56%          | 4.028%        |
| 8         | 9.407       | 1070          | 1075        | 1080         | rVB4     | 6859           | 12420         | 1.16%           | 0.163%        |
| 9         | 9.524       | 1088          | 1095        | 1102         | rBV3     | 18159          | 31308         | 2.91%           | 0.411%        |
| 10        | 10.852      | 1314          | 1321        | 1329         | rBV      | 133933         | 244408        | 22.75%          | 3.209%        |
| 11        | 12.027      | 1512          | 1521        | 1526         | rVB3     | 10389          | 18048         | 1.68%           | 0.237%        |
| 12        | 12.356      | 1570          | 1577        | 1583         | rBV      | 43736          | 84972         | 7.91%           | 1.116%        |
| 13        | 13.296      | 1730          | 1737        | 1744         | rBV      | 476764         | 730753        | 68.01%          | 9.593%        |
| 14        | 13.537      | 1772          | 1778        | 1789         | rVB2     | 116307         | 218387        | 20.32%          | 2.867%        |
| 15        | 14.007      | 1854          | 1858        | 1865         | rVB5     | 10623          | 18207         | 1.69%           | 0.239%        |
| 16        | 14.119      | 1868          | 1877        | 1882         | rBV      | 25790          | 42923         | 3.99%           | 0.563%        |
| 17        | 14.589      | 1953          | 1957        | 1960         | rBV4     | 12297          | 17744         | 1.65%           | 0.233%        |
| 18        | 14.677      | 1960          | 1972        | 1986         | rVB      | 262239         | 522948        | 48.67%          | 6.865%        |
| 19        | 15.382      | 2086          | 2092        | 2094         | rVV3     | 14612          | 21038         | 1.96%           | 0.276%        |
| 20        | 15.417      | 2094          | 2098        | 2105         | rVB4     | 20023          | 38983         | 3.63%           | 0.512%        |
| 21        | 15.558      | 2119          | 2122        | 2128         | rVB8     | 10150          | 14463         | 1.35%           | 0.190%        |
| 22        | 16.281      | 2241          | 2245        | 2248         | rBV5     | 6685           | 10991         | 1.02%           | 0.144%        |
| 23        | 17.427      | 2434          | 2440        | 2448         | rBV2     | 327220         | 513750        | 47.81%          | 6.745%        |
| 24        | 18.285      | 2582          | 2586        | 2597         | rBV5     | 65864          | 162744        | 15.15%          | 2.137%        |
| 25        | 20.024      | 2877          | 2882        | 2887         | rBV      | 855633         | 1074507       | 100.00%         | 14.106%       |
| 26        | 21.293      | 3095          | 3098        | 3101         | rVB      | 47204          | 53456         | 4.97%           | 0.702%        |
| 27        | 21.698      | 3161          | 3167        | 3173         | rVB      | 358063         | 594036        | 55.28%          | 7.799%        |
| 28        | 21.833      | 3187          | 3190        | 3196         | rVB      | 83931          | 114752        | 10.68%          | 1.506%        |
| 29        | 22.444      | 3290          | 3294        | 3300         | rVB      | 119498         | 192328        | 17.90%          | 2.525%        |
| 30        | 23.144      | 3407          | 3413        | 3421         | rBV      | 152995         | 274375        | 25.53%          | 3.602%        |
| 31        | 23.337      | 3441          | 3446        | 3451         | rVB      | 94833          | 179573        | 16.71%          | 2.357%        |
| 32        | 23.954      | 3544          | 3551        | 3565         | rVB      | 148017         | 349798        | 32.55%          | 4.592%        |
| 33        | 24.906      | 3706          | 3713        | 3718         | rBV3     | 115138         | 280185        | 26.08%          | 3.678%        |
| 34        | 24.983      | 3719          | 3726        | 3738         | rVB2     | 197171         | 563238        | 52.42%          | 7.394%        |

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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG062619.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |       |        |        |        |
|----|--------|------|------|------|------|-------|--------|--------|--------|
| 35 | 26.046 | 3900 | 3907 | 3920 | rVB3 | 77586 | 238688 | 22.21% | 3.134% |
|----|--------|------|------|------|------|-------|--------|--------|--------|

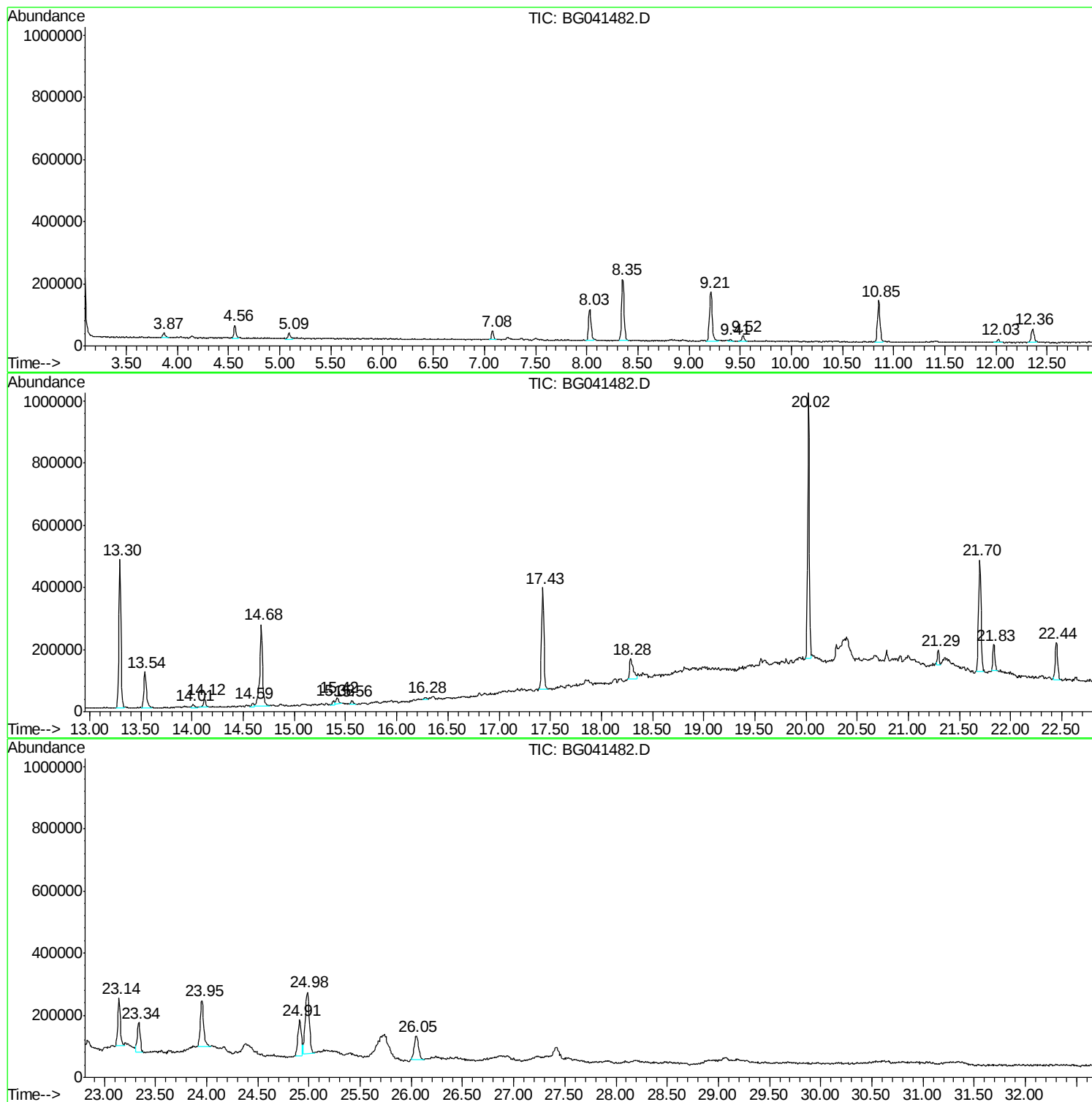
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P



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Misc :  
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Instrument :  
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ClientSampleId :  
WASTE-SLUDGE

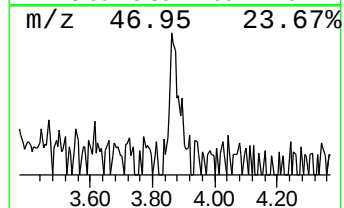
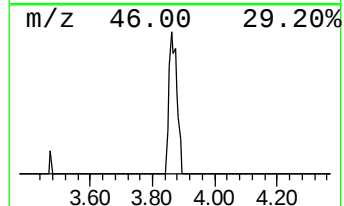
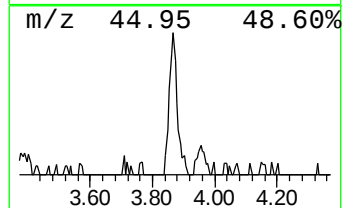
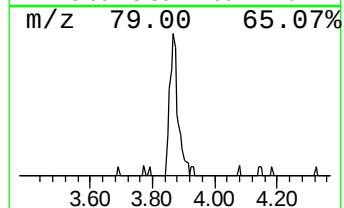
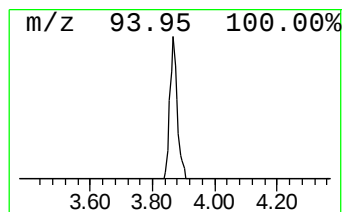
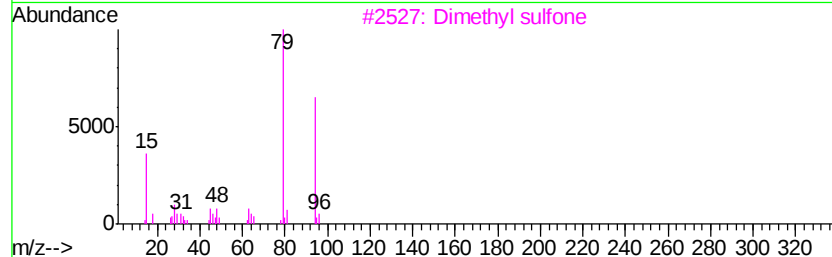
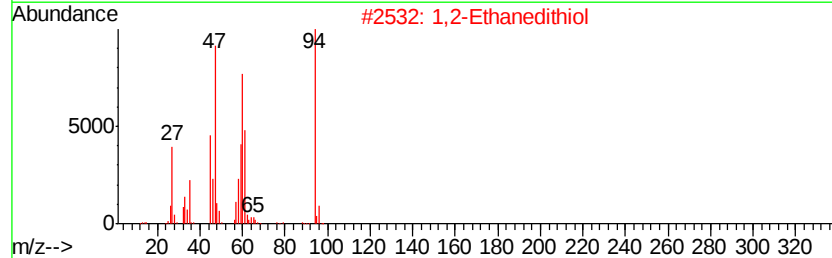
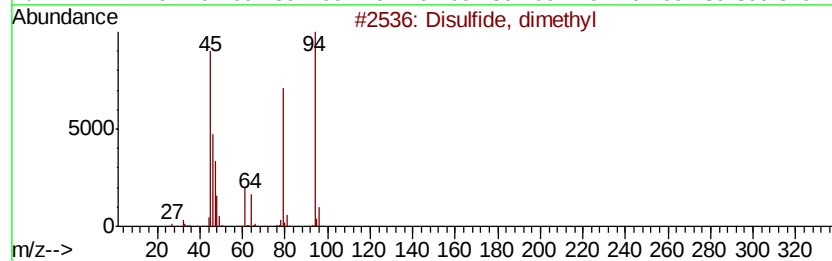
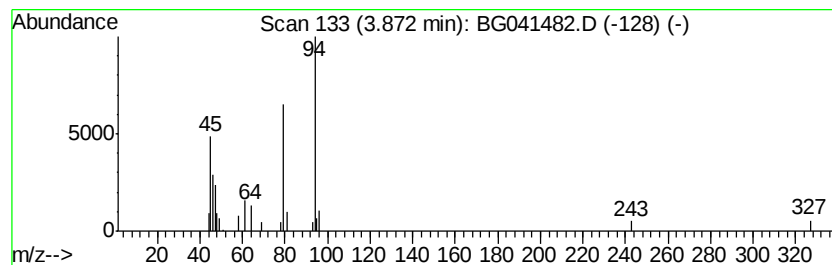
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Disulfide, dimethyl Concentration Rank 15

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 3.87 | 3.21 ng | 28496 | 1,4-Dichlorobenzene-d4 | 8.03 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Disulfide, dimethyl                 | 94  | C2H6S2  | 000624-92-0 | 94   |
| 2    |    |   | 1,2-Ethanedithiol                   | 94  | C2H6S2  | 000540-63-6 | 43   |
| 3    |    |   | Dimethyl sulfone                    | 94  | C2H6O2S | 000067-71-0 | 37   |
| 4    |    |   | 2-Hexen-4-yne, 2-methyl-            | 94  | C7H10   | 058275-93-7 | 23   |
| 5    |    |   | 3-Cyclohexene-1-acetaldehyde, .a... | 152 | C10H16O | 029548-14-9 | 17   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

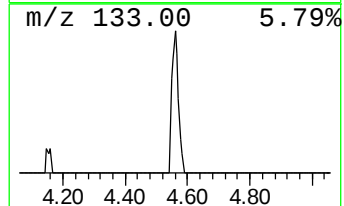
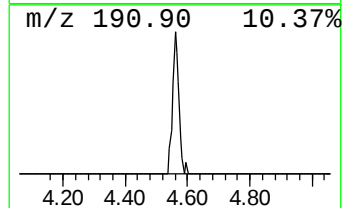
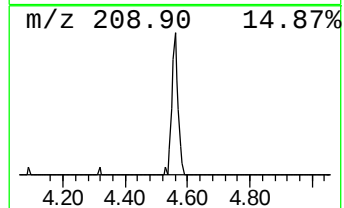
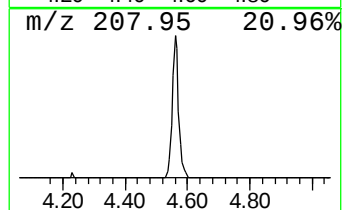
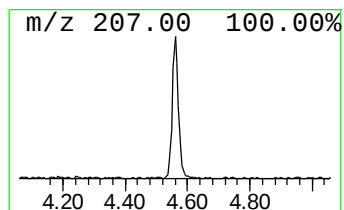
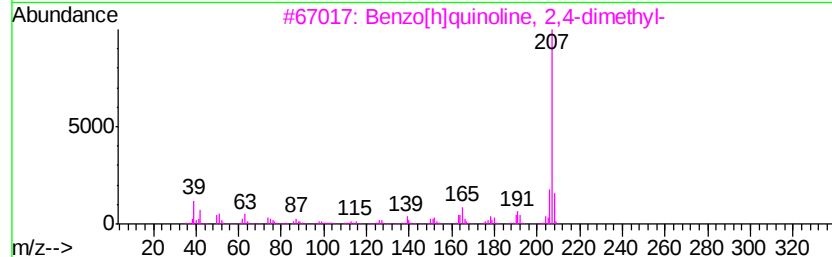
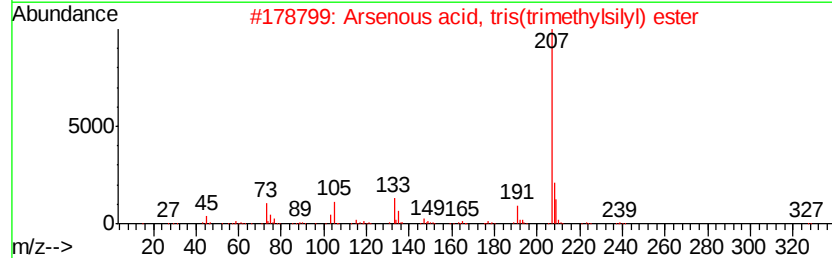
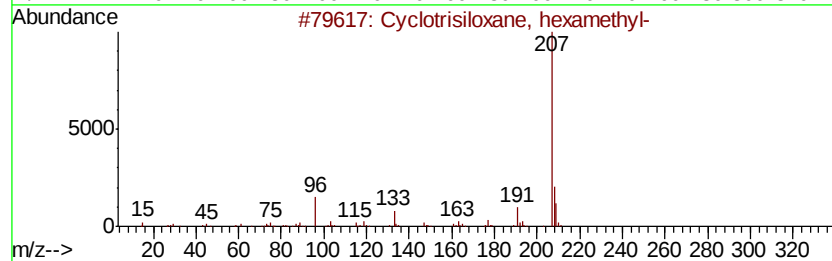
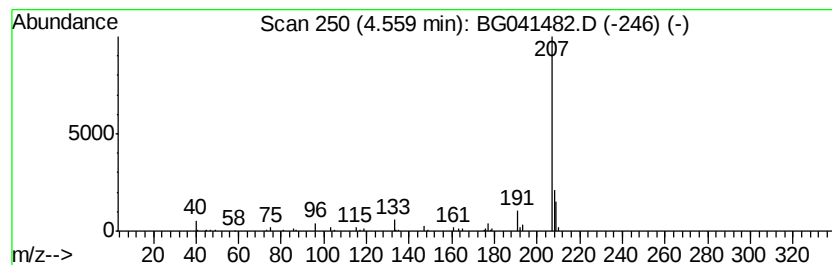
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Cyclotrisiloxane, hexamethyl- Concentration Rank 8

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 4.56 | 6.81 ng | 60416 | 1,4-Dichlorobenzene-d4 | 8.03 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm      | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|--------------|-------------|------|
| 1    |    |   | Cyclotrisiloxane, hexamethyl-       | 222 | C6H18O3Si3   | 000541-05-9 | 83   |
| 2    |    |   | Arsenous acid, tris(trimethylsil... | 342 | C9H27AsO3Si3 | 055429-29-3 | 64   |
| 3    |    |   | Benzo[h]quinoline, 2,4-dimethyl-    | 207 | C15H13N      | 000605-67-4 | 50   |
| 4    |    |   | 4-Cyclohexene-1,2-dicarboximide,... | 207 | C12H17NO2    | 028916-00-9 | 42   |
| 5    |    |   | 5-Methyl-2-phenylindolizine         | 207 | C15H13N      | 036944-99-7 | 39   |



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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

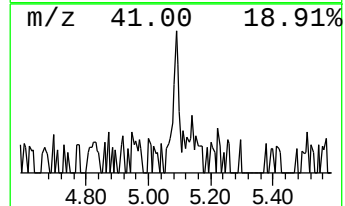
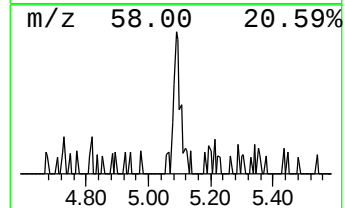
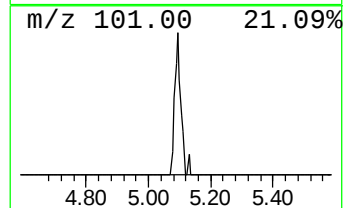
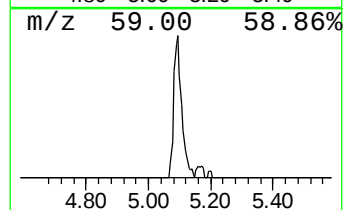
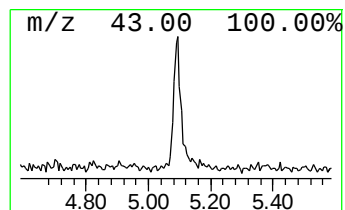
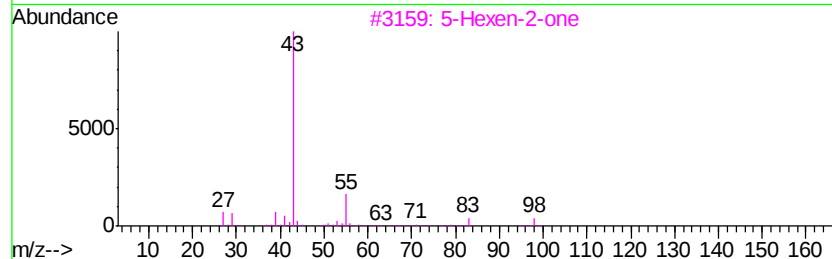
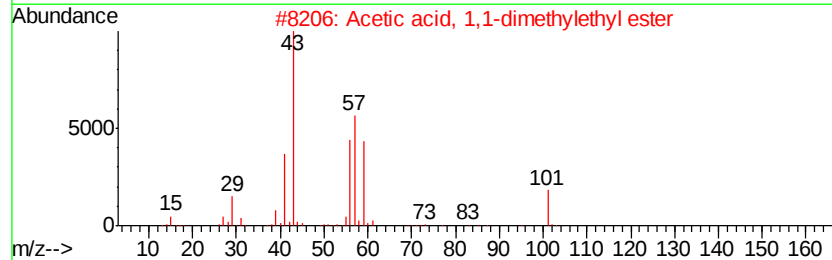
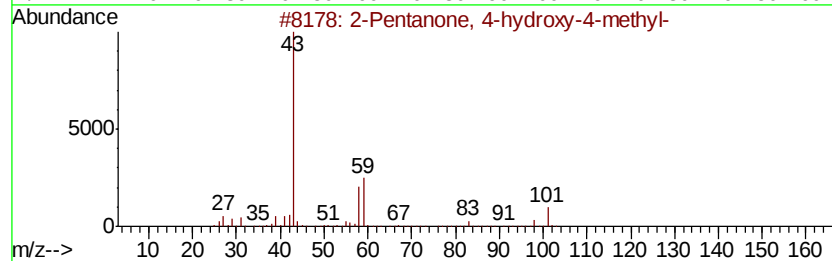
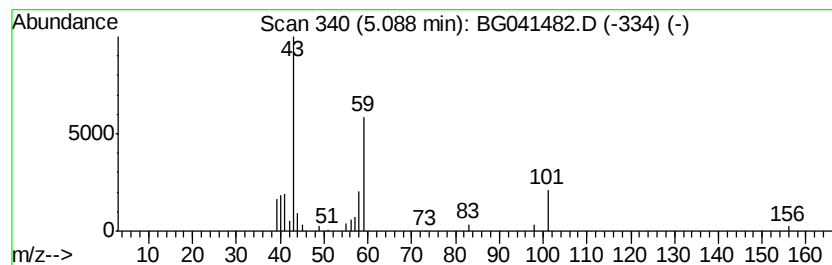
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 13

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.09 | 3.98 ng | 35334 | 1,4-Dichlorobenzene-d4 | 8.03 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 38   |
| 2    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 36   |
| 3    |    |   | 5-Hexen-2-one                       | 98  | C6H10O  | 000109-49-9 | 11   |
| 4    |    |   | 2-Propanone, 1-cyclopropyl-         | 98  | C6H10O  | 004160-75-2 | 9    |
| 5    |    |   | (+)-4-Amino-4,5-dihydro-2(3H)-f...  | 101 | C4H7NO2 | 016504-58-8 | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

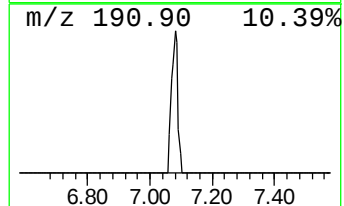
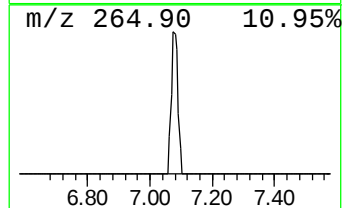
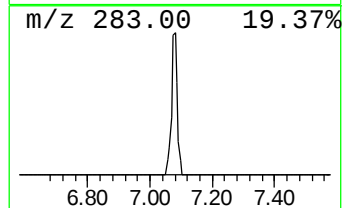
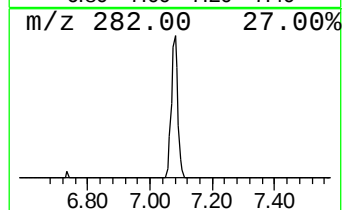
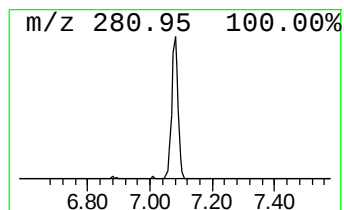
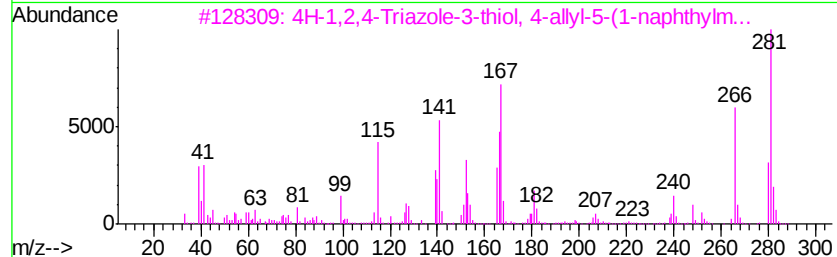
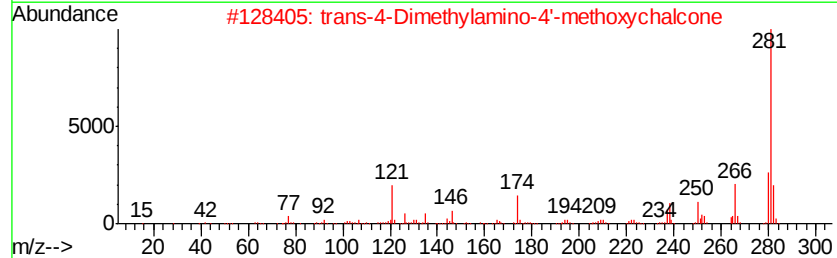
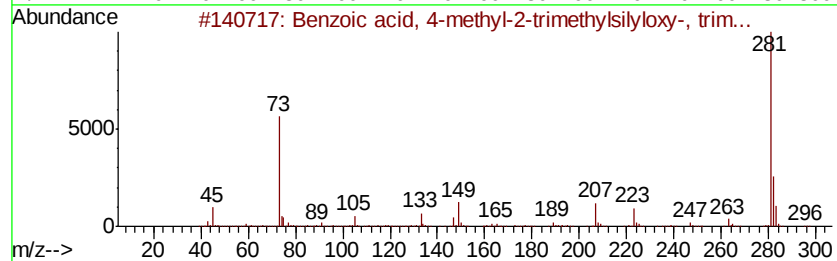
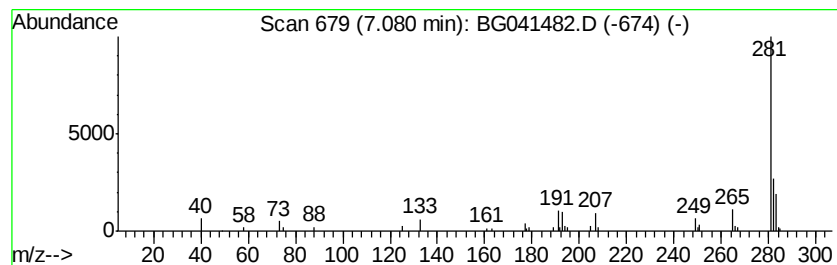
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Benzoic acid, 4-methyl-2-tr... Concentration Rank 12

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 7.08 | 4.43 ng | 39277 | 1,4-Dichlorobenzene-d4 | 8.03 |

| Hit# | of | Tentative ID                         | MW  | MolForm     | CAS#         | Qual |
|------|----|--------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Benzoic acid, 4-methyl-2-trimeth...  | 296 | C14H24O3Si2 | 1000153-59-3 | 50   |
| 2    |    | trans-4-Dimethylamino-4'-methoxy...  | 281 | C18H19NO2   | 052119-37-6  | 47   |
| 3    |    | 4H-1,2,4-Triazole-3-thiol, 4-ally... | 281 | C16H15N3S   | 031803-13-1  | 43   |
| 4    |    | 4-Amino-5-(4-acetylphenylazo)ben...  | 281 | C14H11N5O2  | 166766-09-2  | 43   |
| 5    |    | Benzoic acid, 5-methyl-2-trimeth...  | 296 | C14H24O3Si2 | 1000153-59-4 | 42   |



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WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

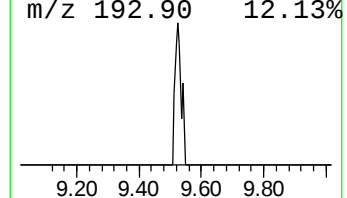
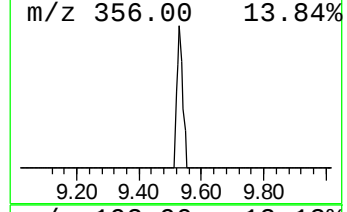
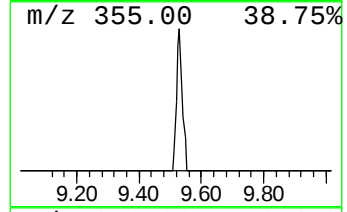
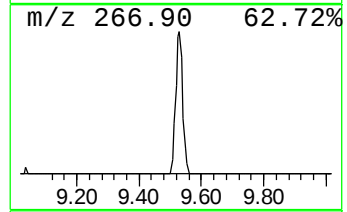
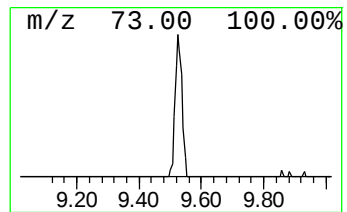
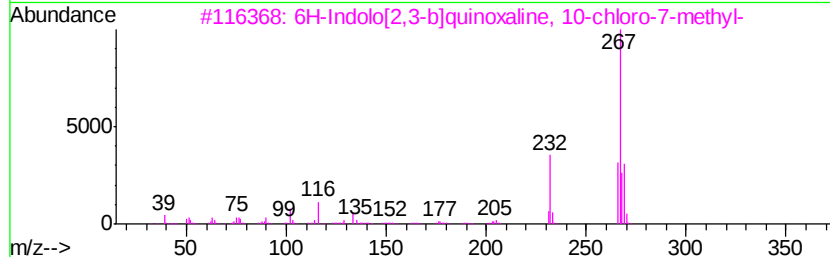
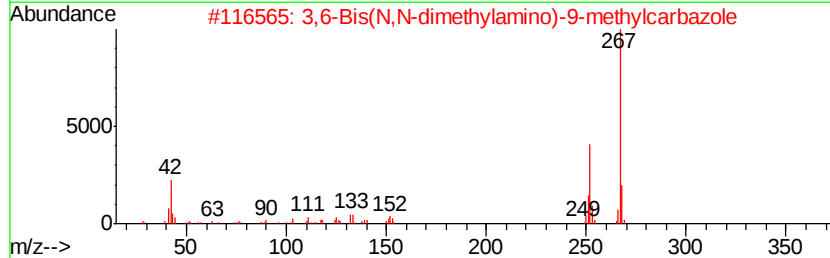
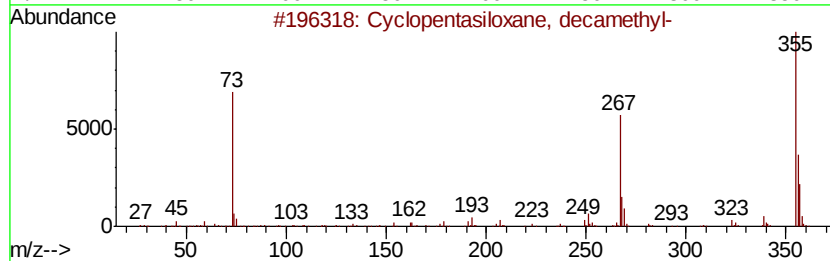
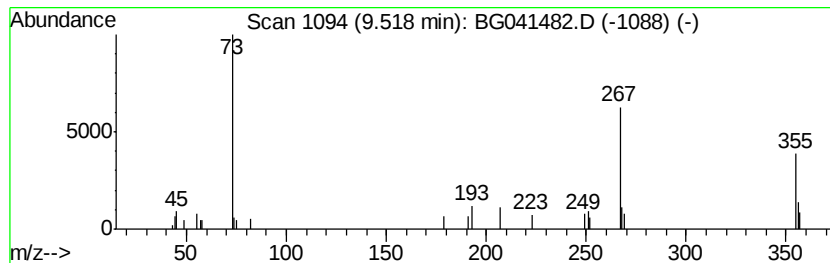
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Cyclopentasiloxane, decamet... Concentration Rank 16

| R.T. | EstConc | Area  | Relative to ISTD | R.T.  |
|------|---------|-------|------------------|-------|
| 9.52 | 2.56 ng | 31308 | Naphthalene-d8   | 10.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|-------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | Cyclopentasiloxane, decamethyl-     | 370 | C10H30O5Si5  | 000541-02-6  | 83   |
| 2    |    | 3,6-Bis(N,N-dimethylamino)-9-met... | 267 | C17H21N3     | 119046-55-8  | 38   |
| 3    |    | 6H-Indolo[2,3-b]quinoxaline, 10-... | 267 | C15H10ClN3   | 1000319-70-8 | 38   |
| 4    |    | 6-Chloro-2,3-dimethyl-4-phenylqu... | 267 | C17H14ClN    | 022609-11-6  | 38   |
| 5    |    | 3-Amino-2-phenazinol ditms          | 355 | C18H25N3OSi2 | 1000332-15-5 | 35   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

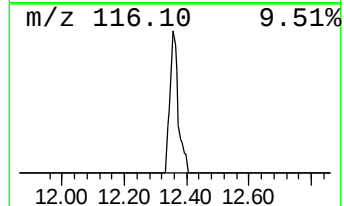
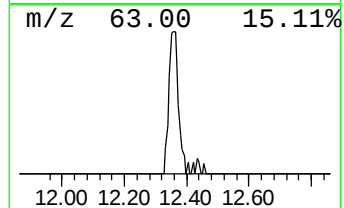
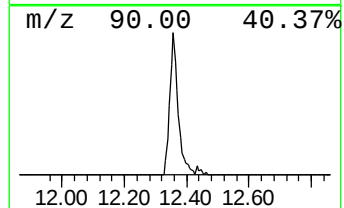
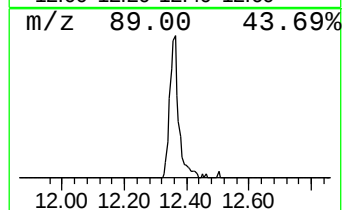
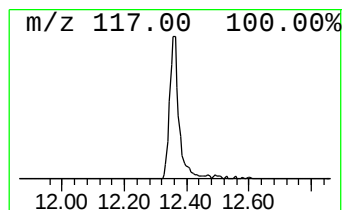
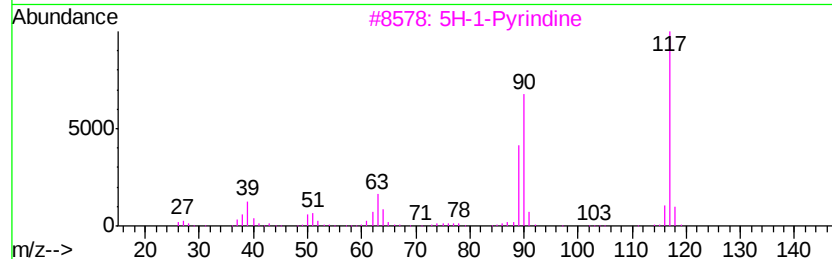
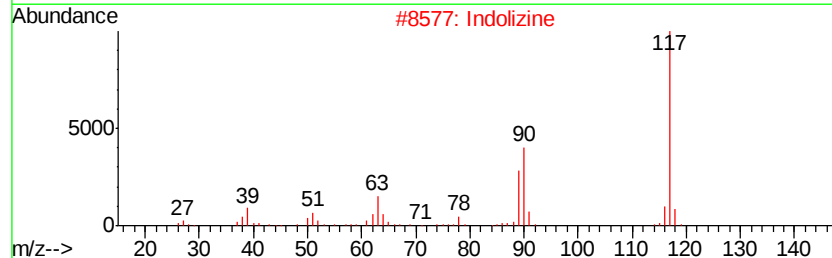
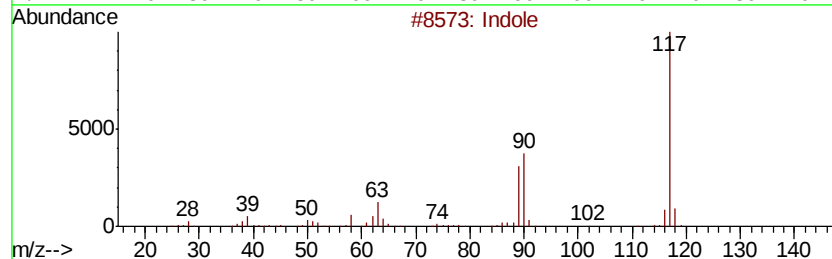
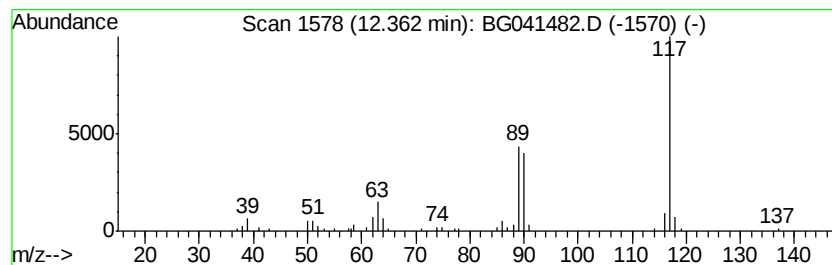
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Indole Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.36 | 6.95 ng | 84972 | Naphthalene-d8   | 10.85 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Indole                  | 117 | C8H7N   | 000120-72-9 | 94   |
| 2    |    | Indolizine              | 117 | C8H7N   | 000274-40-8 | 91   |
| 3    |    | 5H-1-Pyridine           | 117 | C8H7N   | 000270-91-7 | 91   |
| 4    |    | Benzonitrile, 2-methyl- | 117 | C8H7N   | 000529-19-1 | 91   |
| 5    |    | Benzyl nitrile          | 117 | C8H7N   | 000140-29-4 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

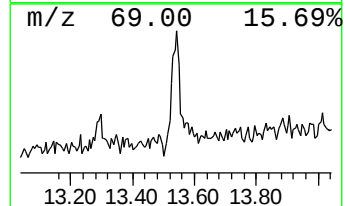
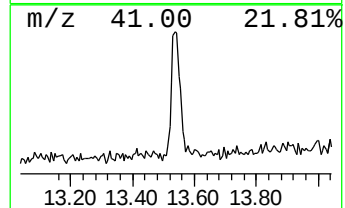
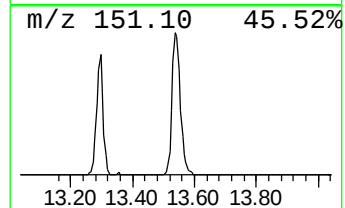
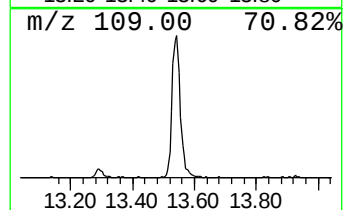
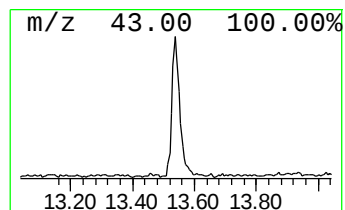
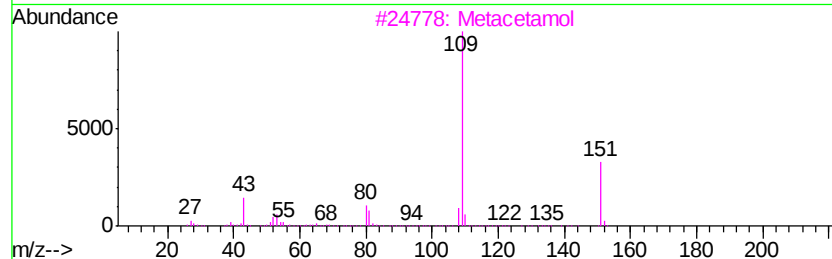
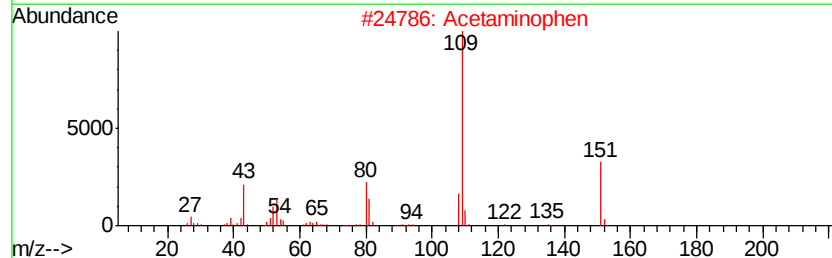
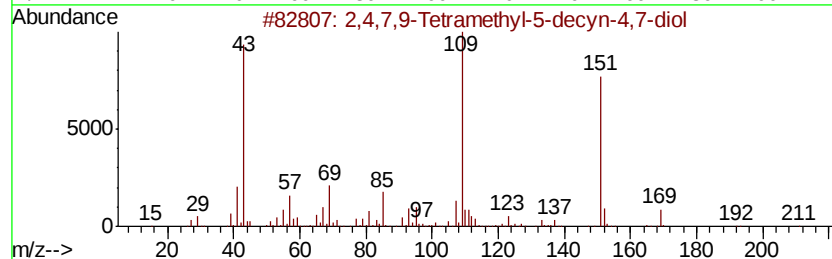
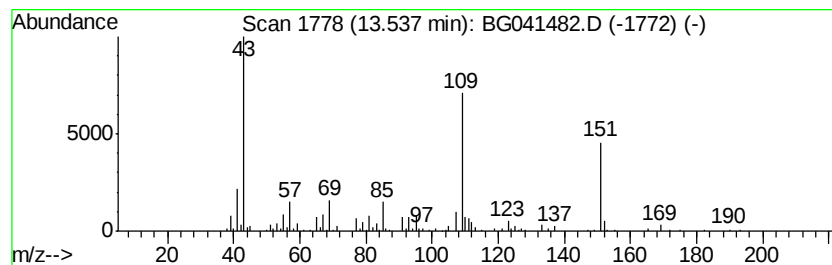
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.54 | 8.35 ng | 218387 | Acenaphthene-d10 | 14.68 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2,4,7,9-Tetramethyl-5-decyn-4,7-... | 226 | C14H26O2     | 000126-86-3 | 91      |      |      |
| 2    | Acetaminophen                       | 151 | C8H9NO2      | 000103-90-2 | 53      |      |      |
| 3    | Metacetamol                         | 151 | C8H9NO2      | 000621-42-1 | 53      |      |      |
| 4    | m-Isopropoxyvaniline                | 151 | C9H13NO      | 041406-00-2 | 53      |      |      |
| 5    | p-Isopropoxyaniline                 | 151 | C9H13NO      | 007664-66-6 | 53      |      |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

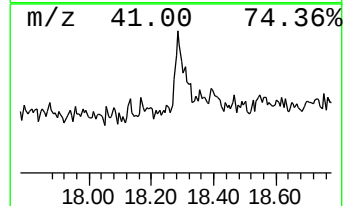
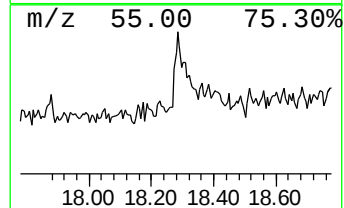
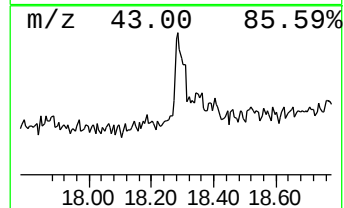
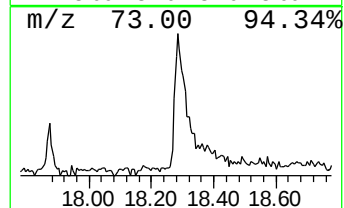
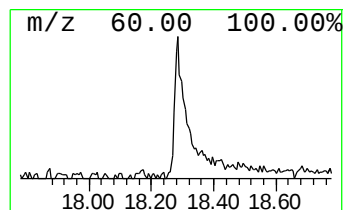
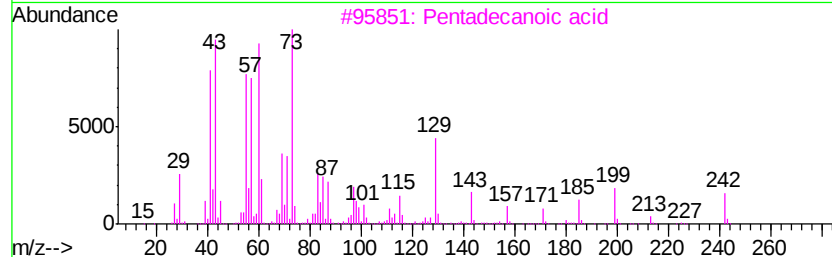
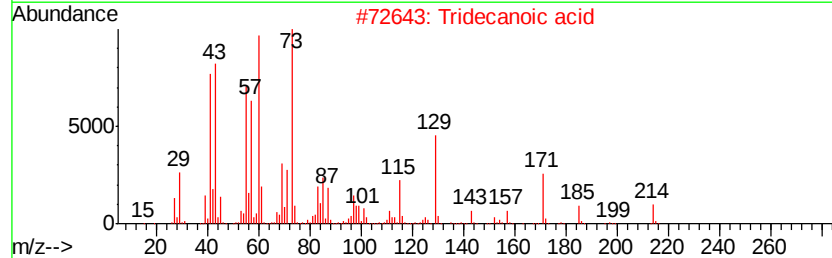
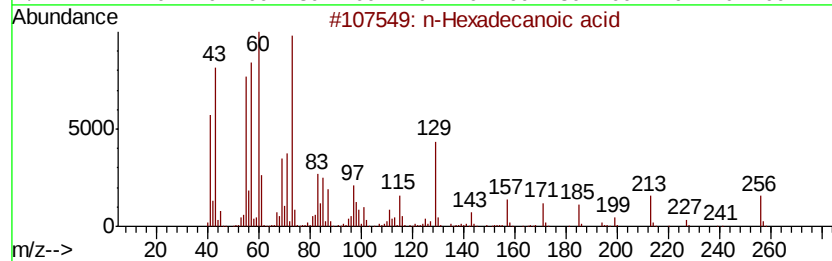
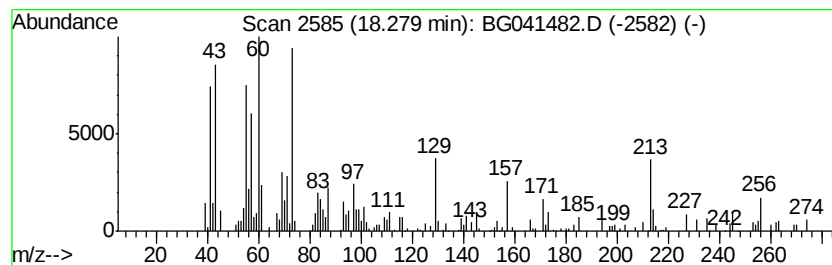
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 n-Hexadecanoic acid Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.28 | 6.34 ng | 162744 | Phenanthrene-d10 | 17.43 |

| Hit# of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|---------|---|---------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95   |
| 2       |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 86   |
| 3       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 68   |
| 4       |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 59   |
| 5       |   | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 43   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

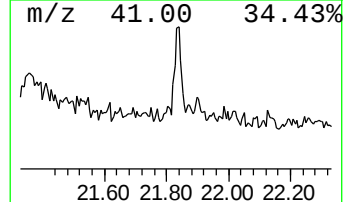
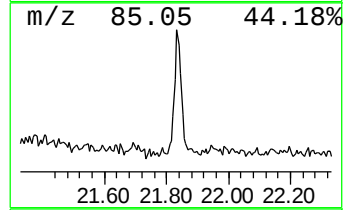
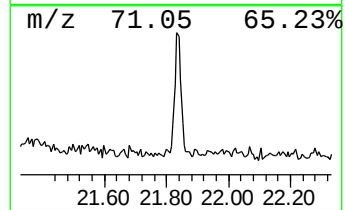
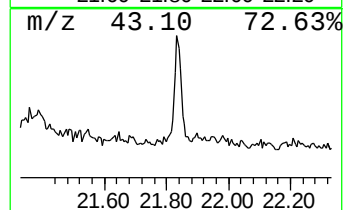
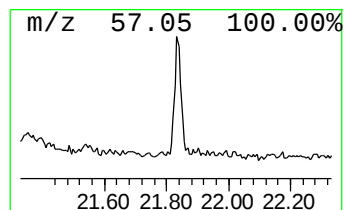
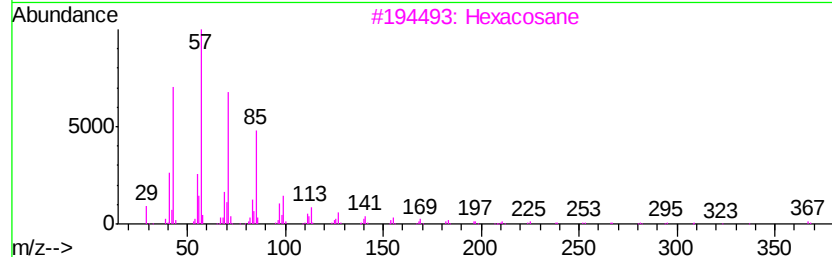
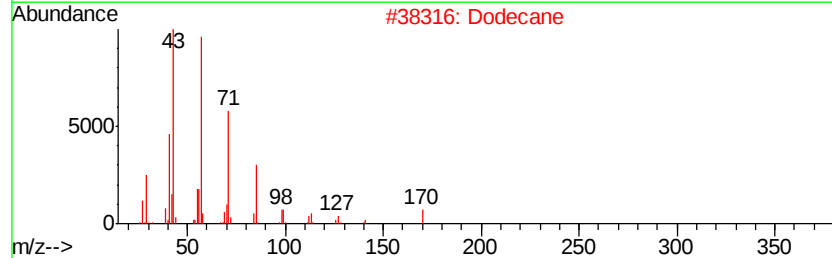
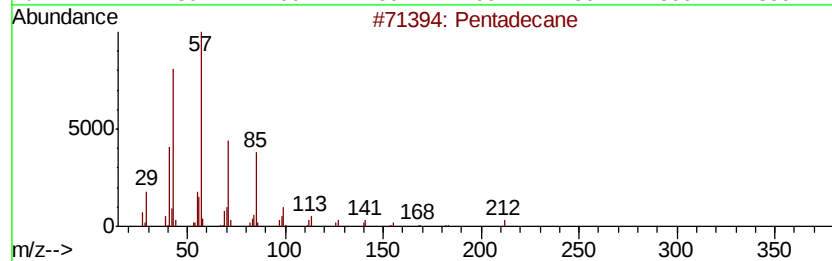
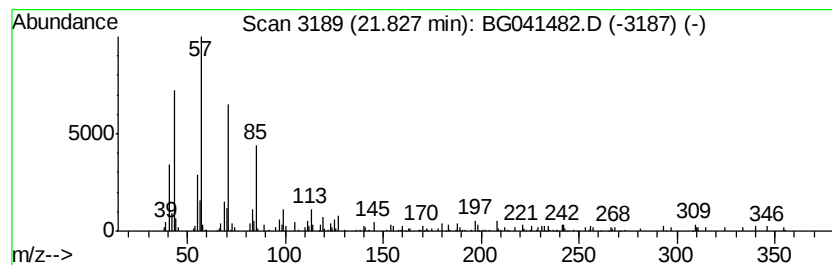
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Pentadecane Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.83 | 3.86 ng | 114752 | Chrysene-d12     | 21.70 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane          | 212 | C15H32  | 000629-62-9 | 93   |
| 2    |    |   | Dodecane             | 170 | C12H26  | 000112-40-3 | 90   |
| 3    |    |   | Hexacosane           | 366 | C26H54  | 000630-01-3 | 90   |
| 4    |    |   | Tetradecane          | 198 | C14H30  | 000629-59-4 | 87   |
| 5    |    |   | Eicosane, 10-methyl- | 296 | C21H44  | 054833-23-7 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

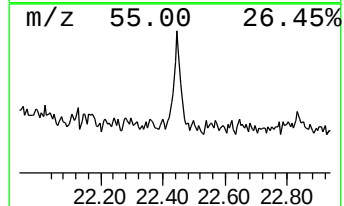
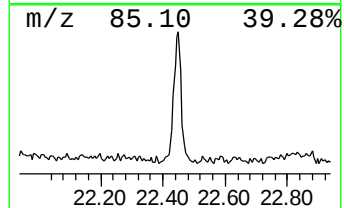
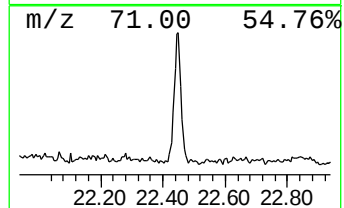
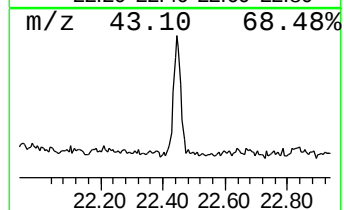
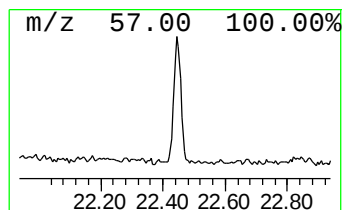
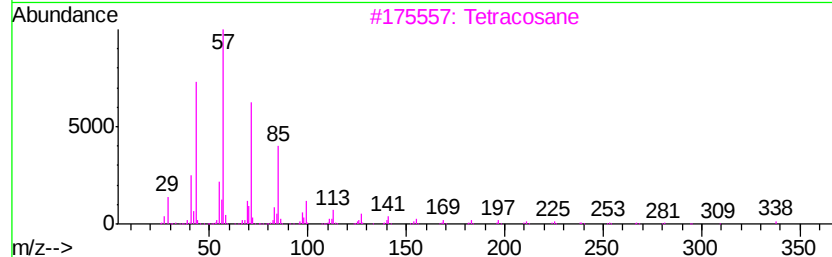
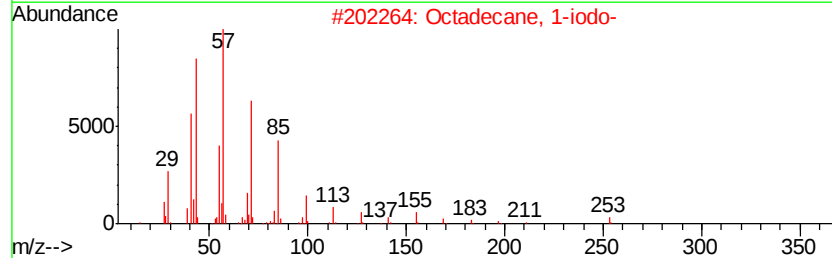
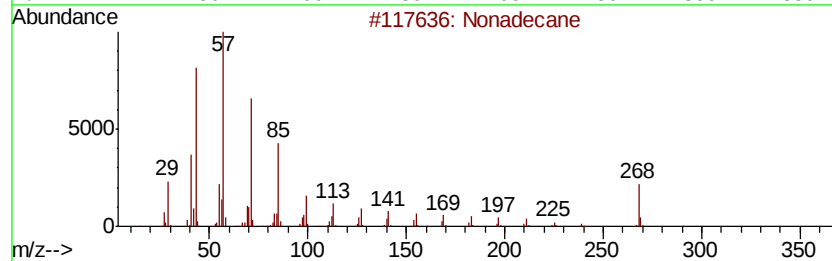
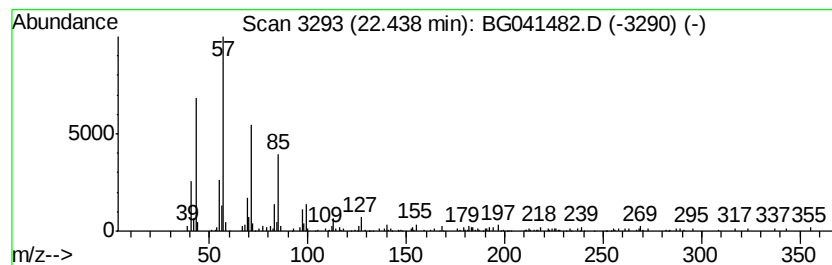
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Nonadecane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 22.44 | 6.48 ng | 192328 | Chrysene-d12     | 21.70 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Nonadecane          | 268 | C19H40  | 000629-92-5 | 93   |
| 2    |    | Octadecane, 1-iodo- | 380 | C18H37I | 000629-93-6 | 87   |
| 3    |    | Tetracosane         | 338 | C24H50  | 000646-31-1 | 87   |
| 4    |    | Heneicosane         | 296 | C21H44  | 000629-94-7 | 87   |
| 5    |    | Octacosane          | 394 | C28H58  | 000630-02-4 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

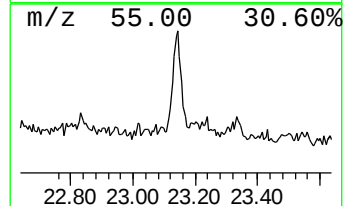
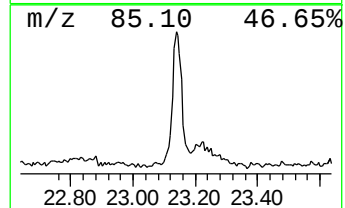
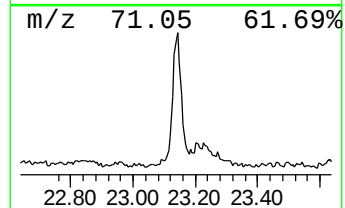
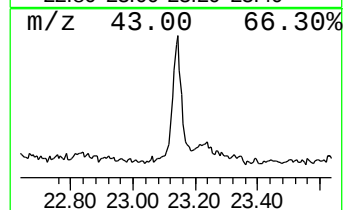
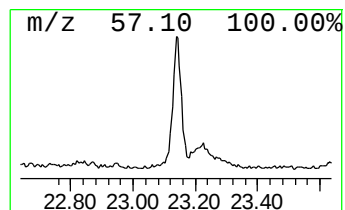
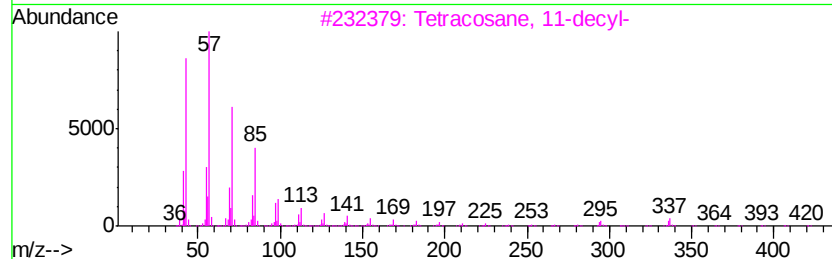
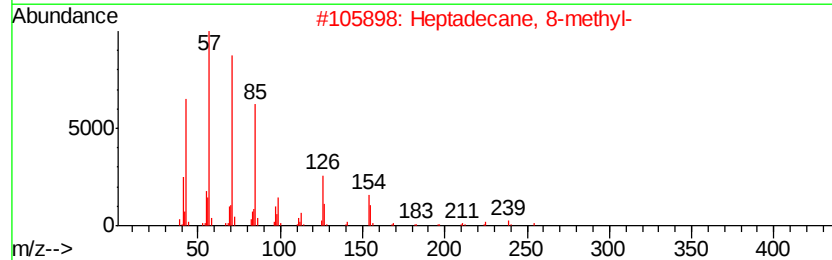
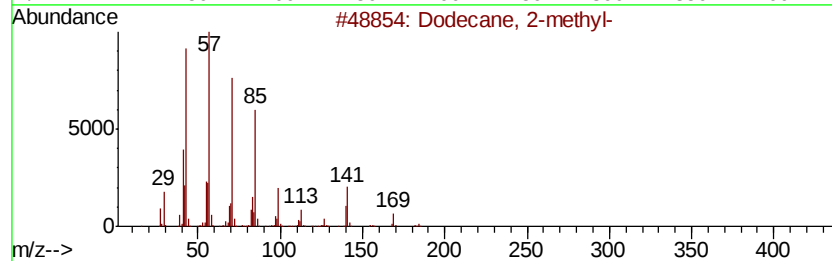
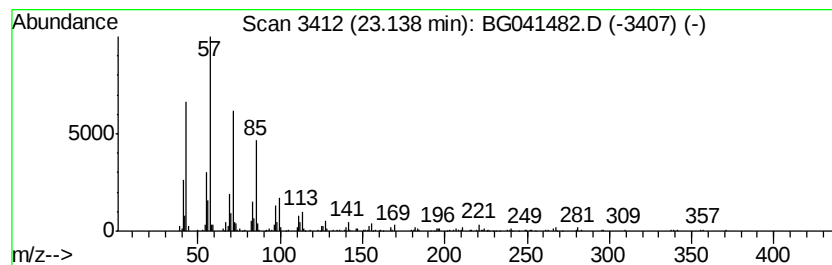
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Dodecane, 2-methyl- Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.14 | 9.24 ng | 274375 | Chrysene-d12     | 21.70 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane, 2-methyl-    | 184 | C13H28  | 001560-97-0 | 91   |
| 2    |    | Heptadecane, 8-methyl- | 254 | C18H38  | 013287-23-5 | 91   |
| 3    |    | Tetracosane, 11-decyl- | 479 | C34H70  | 055429-84-0 | 91   |
| 4    |    | Tetratetracontane      | 619 | C44H90  | 007098-22-8 | 91   |
| 5    |    | Hexacosane             | 366 | C26H54  | 000630-01-3 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

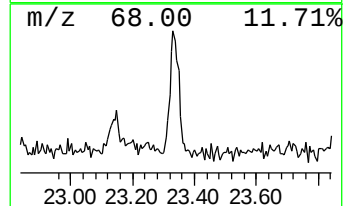
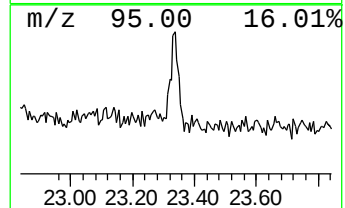
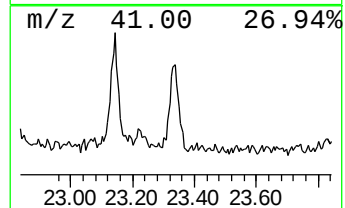
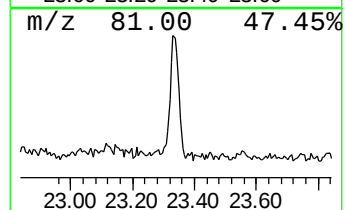
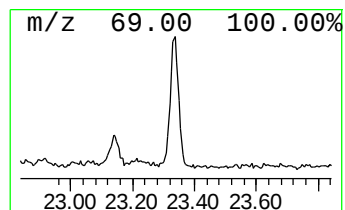
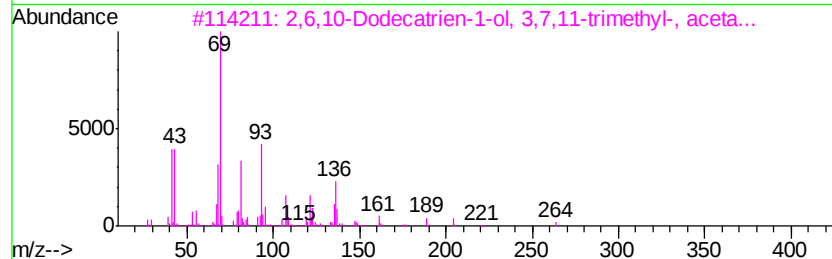
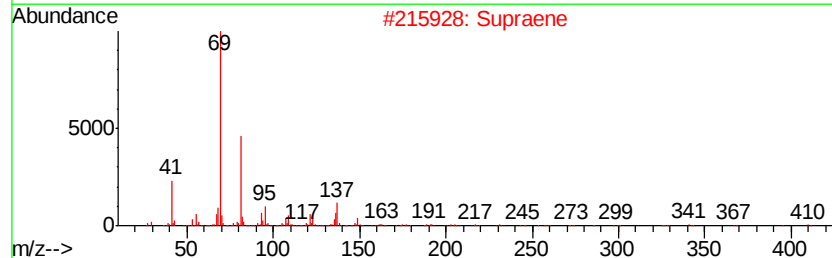
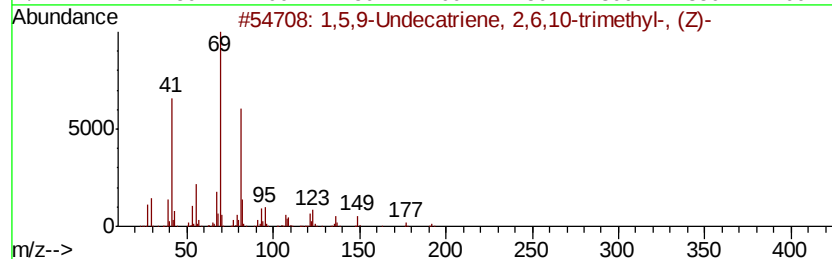
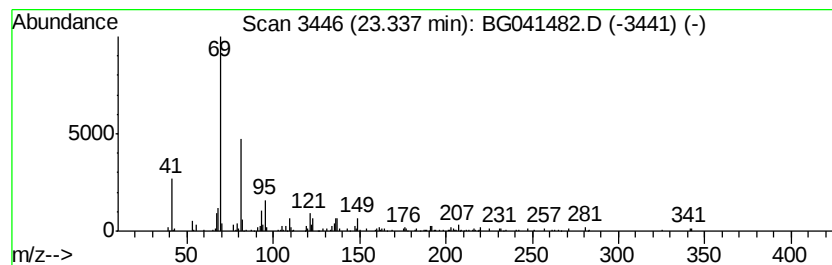
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 1,5,9-Undecatriene, 2,6,10-... Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.34 | 6.05 ng | 179573 | Chrysene-d12     | 21.70 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 1,5,9-Undecatriene, 2,6,10-trime... | 192 | C14H24   | 062951-96-6 | 72   |
| 2    |    |   | Supraene                            | 410 | C30H50   | 007683-64-9 | 72   |
| 3    |    |   | 2,6,10-Dodecatrien-1-ol, 3,7,11-... | 264 | C17H28O2 | 004128-17-0 | 64   |
| 4    |    |   | 4-Methyl-1,5-Heptadiene             | 110 | C8H14    | 000998-94-7 | 64   |
| 5    |    |   | 2,6,10,14-Hexadecatetraenoic aci... | 332 | C22H36O2 | 024035-35-6 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

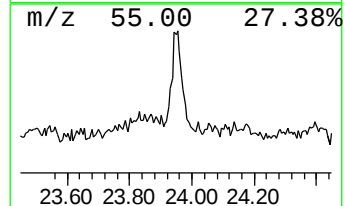
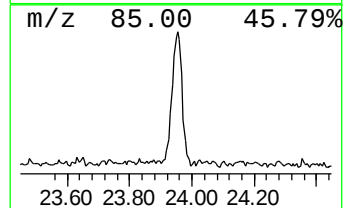
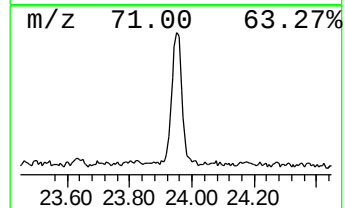
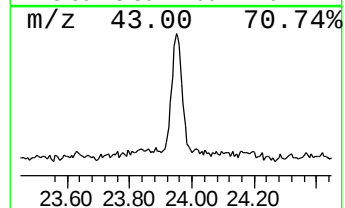
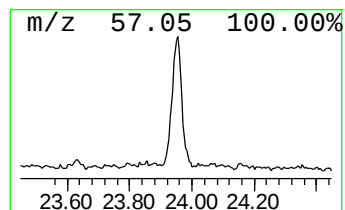
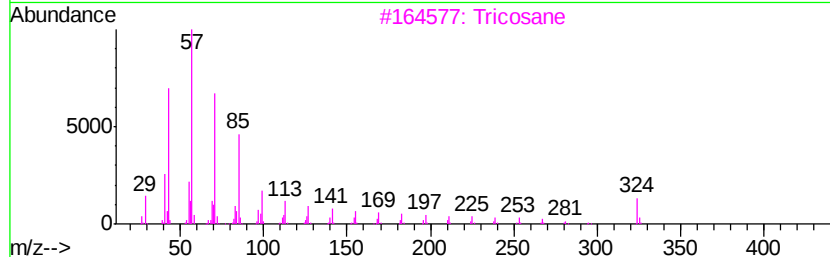
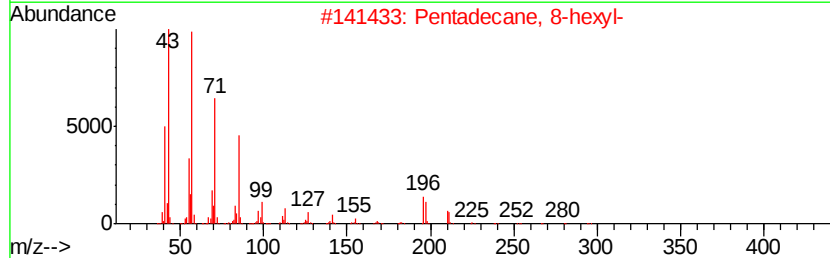
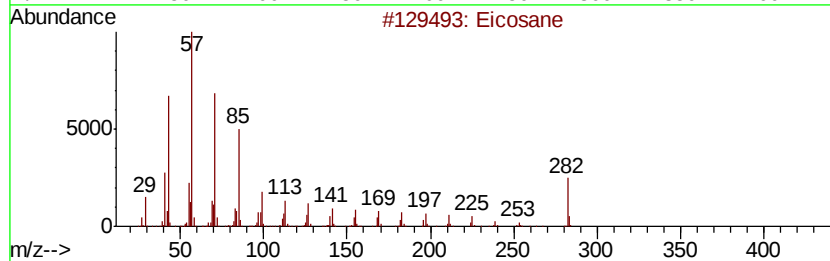
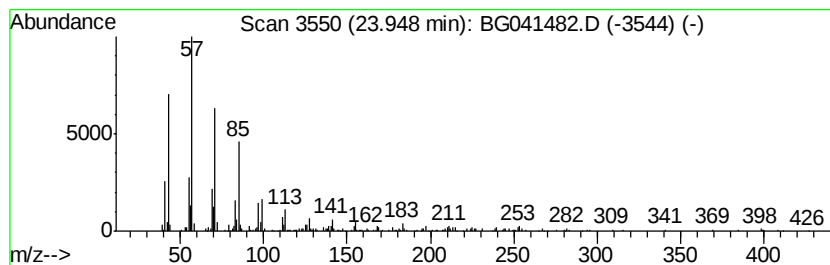
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Eicosane Concentration Rank 2

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 23.95 | 12.42 ng | 349798 | Perylene-d12     | 24.98 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane              | 282 | C20H42  | 000112-95-8 | 94   |
| 2    |    | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7 | 93   |
| 3    |    | Tricosane             | 324 | C23H48  | 000638-67-5 | 91   |
| 4    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 90   |
| 5    |    | Octadecane, 2-methyl- | 268 | C19H40  | 001560-88-9 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

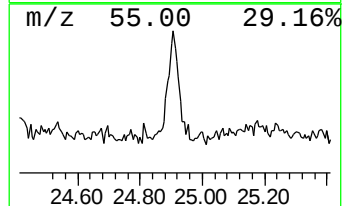
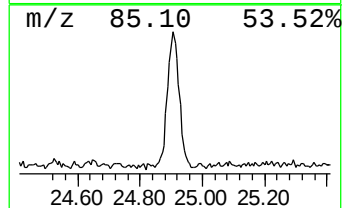
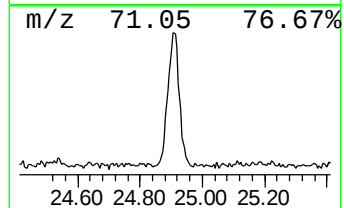
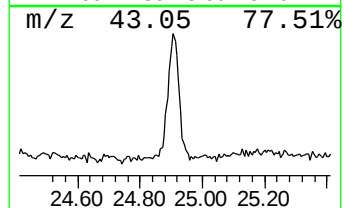
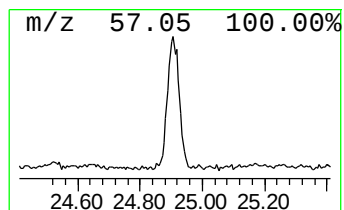
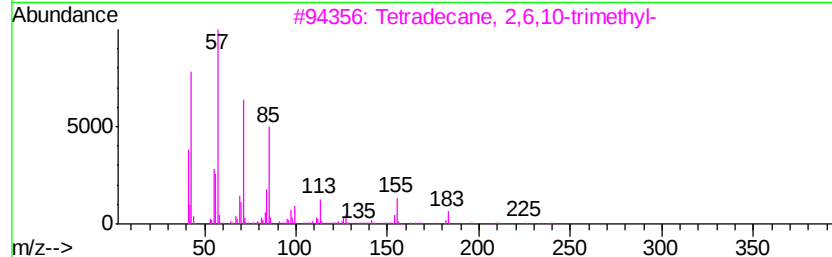
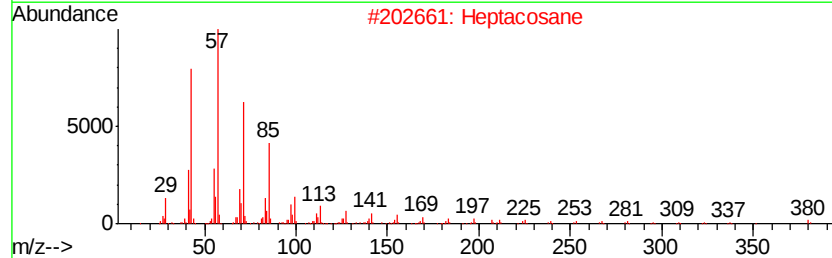
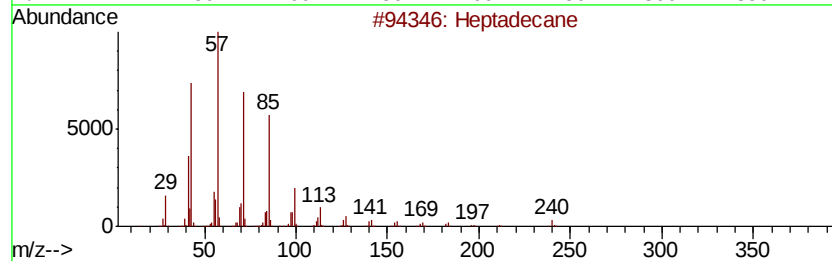
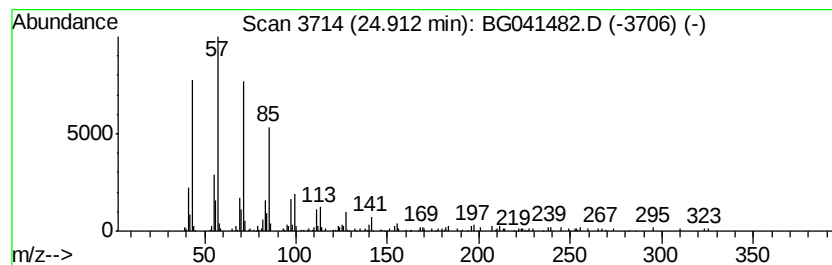
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Heptadecane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 24.91 | 9.95 ng | 280185 | Perylene-d12     | 24.98 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Heptadecane                    | 240 | C17H36  | 000629-78-7 | 91   |
| 2    |    | Heptacosane                    | 380 | C27H56  | 000593-49-7 | 90   |
| 3    |    | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7 | 90   |
| 4    |    | Tetratetracontane              | 619 | C44H90  | 007098-22-8 | 90   |
| 5    |    | Tetracosane                    | 338 | C24H50  | 000646-31-1 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062719\  
Data File : BG041482.D  
Acq On : 27 Jun 2019 9:18  
Operator : HP/JU  
Sample : K3484-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG062619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

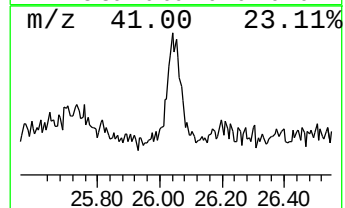
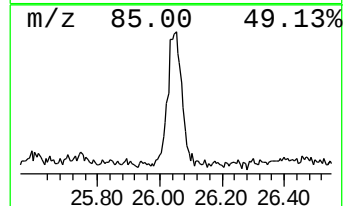
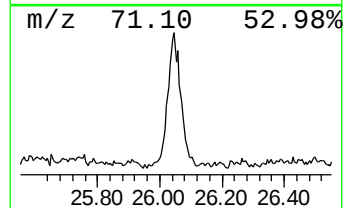
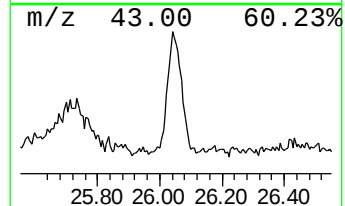
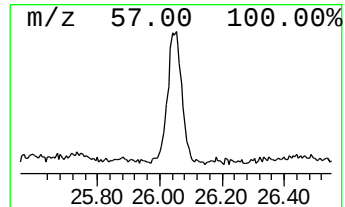
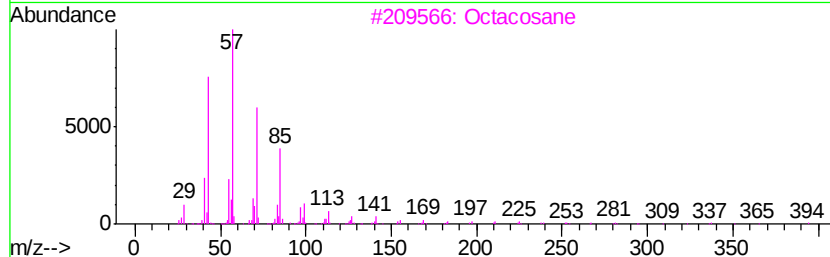
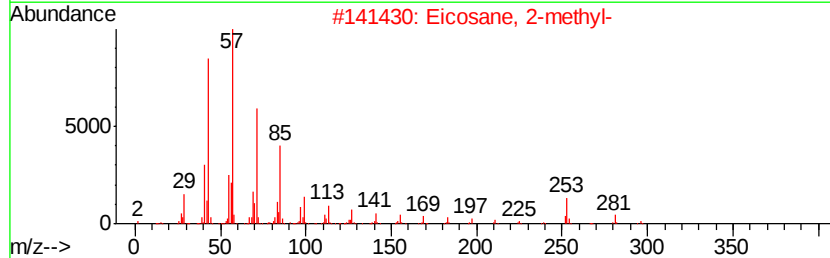
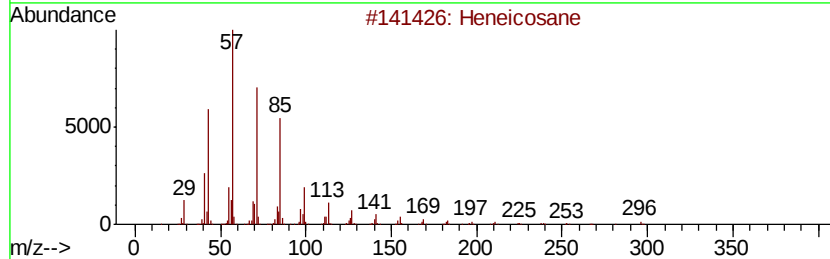
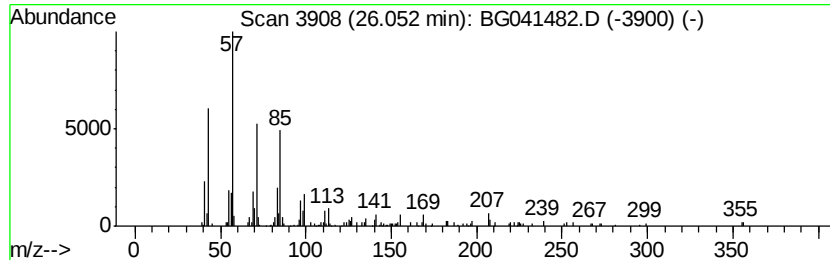
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Heneicosane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 26.05 | 8.48 ng | 238688 | Perylene-d12     | 24.98 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane         | 296 | C21H44  | 000629-94-7 | 98   |
| 2    |    | Eicosane, 2-methyl- | 296 | C21H44  | 001560-84-5 | 93   |
| 3    |    | Octacosane          | 394 | C28H58  | 000630-02-4 | 90   |
| 4    |    | Heptacosane         | 380 | C27H56  | 000593-49-7 | 90   |
| 5    |    | Tetratetracontane   | 619 | C44H90  | 007098-22-8 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG062719\  
 Data File : BG041482.D  
 Acq On : 27 Jun 2019 9:18  
 Operator : HP/JU  
 Sample : K3484-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WASTE-SLUDGE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG062619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Disulfide, dimethyl  | 3.87  | 3.2     | ng    | 28496    | 1                     | 8.03  | 177399 | 20.0 |
| Cyclotrisiloxane,... | 4.56  | 6.8     | ng    | 60416    | 1                     | 8.03  | 177399 | 20.0 |
| 2-Pentanone, 4-hy... | 5.09  | 4.0     | ng    | 35334    | 1                     | 8.03  | 177399 | 20.0 |
| Benzoic acid, 4-m... | 7.08  | 4.4     | ng    | 39277    | 1                     | 8.03  | 177399 | 20.0 |
| Cyclopentasiloxan... | 9.52  | 2.6     | ng    | 31308    | 2                     | 10.85 | 244408 | 20.0 |
| Indole               | 12.36 | 7.0     | ng    | 84972    | 2                     | 10.85 | 244408 | 20.0 |
| 2,4,7,9-Tetrameth... | 13.54 | 8.3     | ng    | 218387   | 3                     | 14.68 | 522948 | 20.0 |
| n-Hexadecanoic acid  | 18.28 | 6.3     | ng    | 162744   | 4                     | 17.43 | 513750 | 20.0 |
| Pentadecane          | 21.83 | 3.9     | ng    | 114752   | 5                     | 21.70 | 594036 | 20.0 |
| Nonadecane           | 22.44 | 6.5     | ng    | 192328   | 5                     | 21.70 | 594036 | 20.0 |
| Dodecane, 2-methyl-  | 23.14 | 9.2     | ng    | 274375   | 5                     | 21.70 | 594036 | 20.0 |
| 1,5,9-Undecatrien... | 23.34 | 6.0     | ng    | 179573   | 5                     | 21.70 | 594036 | 20.0 |
| Eicosane             | 23.95 | 12.4    | ng    | 349798   | 6                     | 24.98 | 563238 | 20.0 |
| Heptadecane          | 24.91 | 9.9     | ng    | 280185   | 6                     | 24.98 | 563238 | 20.0 |
| Heneicosane          | 26.05 | 8.5     | ng    | 238688   | 6                     | 24.98 | 563238 | 20.0 |