

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG040119\  
 Data File : BG040273.D  
 Acq On : 1 Apr 2019 20:17  
 Operator : JU/SJ  
 Sample : K2173-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 T-3

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-BG032719.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         | 3.123       | 3             | 6           | 15           | rVB      | 74428          | 121127        | 3.36%           | 0.672%        |
| 2         | 5.144       | 343           | 350         | 360          | rBV      | 644002         | 980408        | 27.18%          | 5.439%        |
| 3         | 5.609       | 420           | 429         | 437          | rBV      | 142320         | 236727        | 6.56%           | 1.313%        |
| 4         | 7.207       | 693           | 701         | 714          | rBV      | 717152         | 1237574       | 34.31%          | 6.865%        |
| 5         | 7.583       | 757           | 765         | 775          | rBV      | 393657         | 676494        | 18.75%          | 3.753%        |
| 6         | 8.053       | 839           | 845         | 858          | rVB      | 198977         | 341232        | 9.46%           | 1.893%        |
| 7         | 8.376       | 892           | 900         | 909          | rVB      | 608585         | 1043393       | 28.92%          | 5.788%        |
| 8         | 9.228       | 1037          | 1045        | 1057         | rBV      | 520408         | 932948        | 25.86%          | 5.175%        |
| 9         | 10.509      | 1257          | 1263        | 1272         | rVB2     | 31524          | 57295         | 1.59%           | 0.318%        |
| 10        | 10.867      | 1317          | 1324        | 1329         | rBV      | 283725         | 514623        | 14.27%          | 2.855%        |
| 11        | 10.908      | 1329          | 1331        | 1339         | rVB      | 52017          | 69450         | 1.93%           | 0.385%        |
| 12        | 13.305      | 1732          | 1739        | 1748         | rVB      | 1585802        | 2402198       | 66.59%          | 13.326%       |
| 13        | 13.546      | 1773          | 1780        | 1788         | rVB      | 24620          | 39501         | 1.09%           | 0.219%        |
| 14        | 14.128      | 1873          | 1879        | 1885         | rBV      | 132180         | 188779        | 5.23%           | 1.047%        |
| 15        | 14.686      | 1966          | 1974        | 1981         | rBV2     | 507526         | 820899        | 22.76%          | 4.554%        |
| 16        | 16.173      | 2221          | 2227        | 2238         | rBV      | 136489         | 230282        | 6.38%           | 1.277%        |
| 17        | 17.430      | 2434          | 2441        | 2452         | rBV      | 744272         | 1128563       | 31.28%          | 6.261%        |
| 18        | 19.140      | 2728          | 2732        | 2738         | rBV4     | 25553          | 50865         | 1.41%           | 0.282%        |
| 19        | 20.033      | 2877          | 2884        | 2891         | rBV      | 2605738        | 3607543       | 100.00%         | 20.012%       |
| 20        | 21.308      | 3095          | 3101        | 3111         | rBV      | 81855          | 189377        | 5.25%           | 1.051%        |
| 21        | 21.707      | 3162          | 3169        | 3176         | rVB2     | 708378         | 1210725       | 33.56%          | 6.716%        |
| 22        | 21.854      | 3190          | 3194        | 3200         | rVB2     | 37649          | 58046         | 1.61%           | 0.322%        |
| 23        | 22.465      | 3293          | 3298        | 3307         | rVB2     | 57430          | 100273        | 2.78%           | 0.556%        |
| 24        | 23.170      | 3412          | 3418        | 3427         | rBV      | 71557          | 131448        | 3.64%           | 0.729%        |
| 25        | 23.364      | 3444          | 3451        | 3458         | rBV2     | 47631          | 92340         | 2.56%           | 0.512%        |
| 26        | 23.987      | 3550          | 3557        | 3564         | rBV3     | 61083          | 138464        | 3.84%           | 0.768%        |
| 27        | 25.004      | 3713          | 3730        | 3749         | rVB2     | 396923         | 1326193       | 36.76%          | 7.357%        |
| 28        | 26.114      | 3912          | 3919        | 3932         | rVB6     | 32205          | 99945         | 2.77%           | 0.554%        |

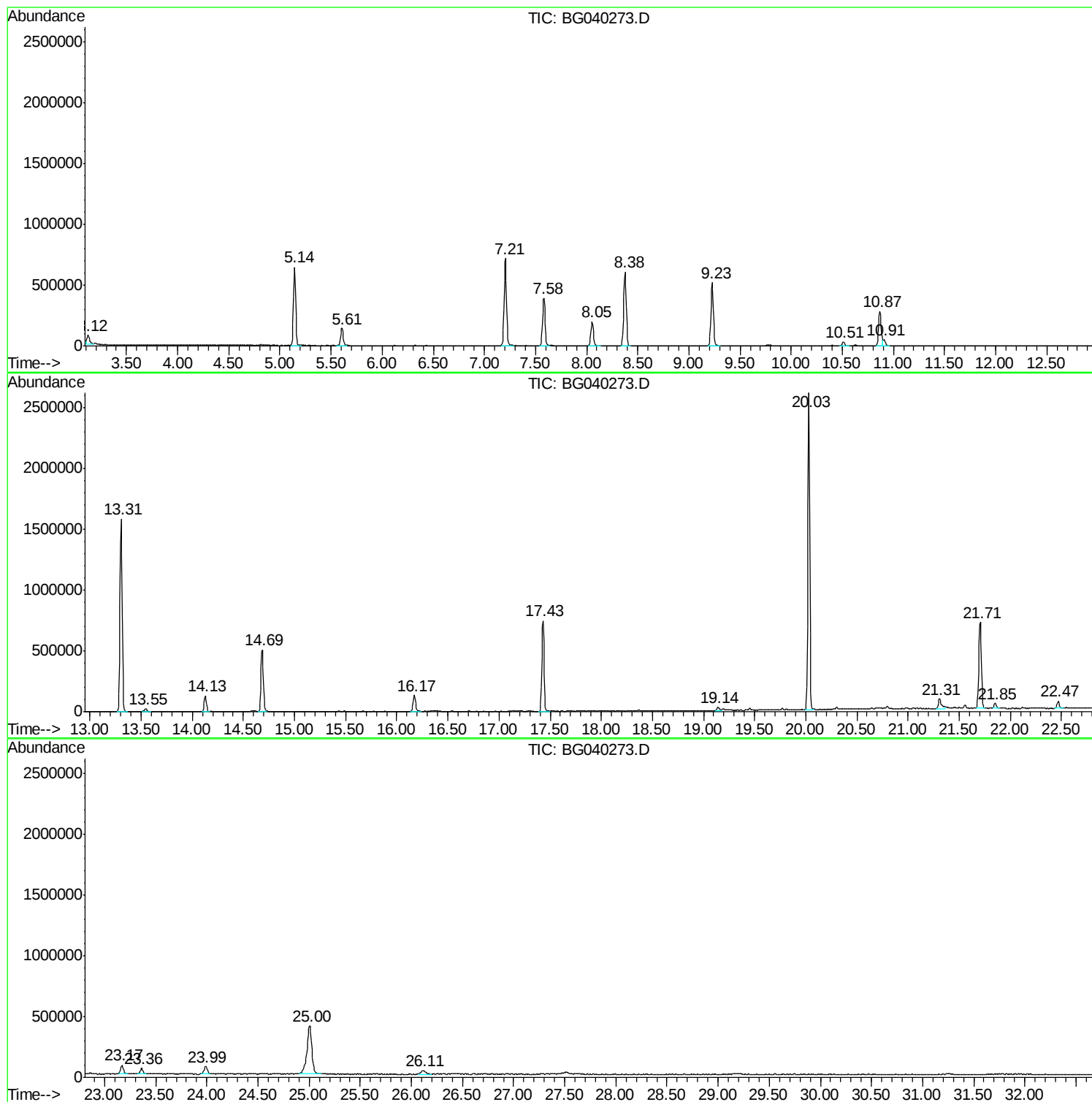
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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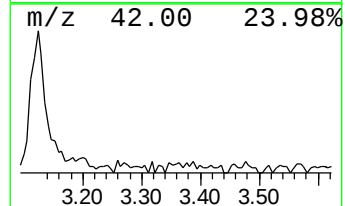
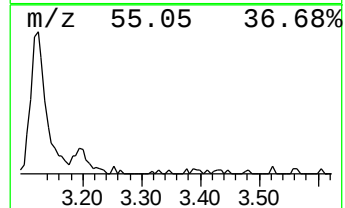
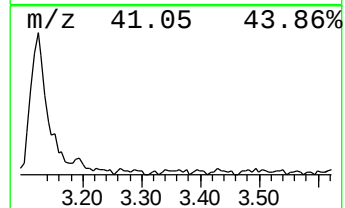
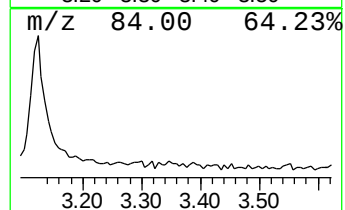
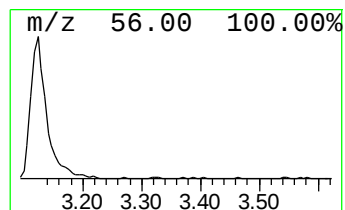
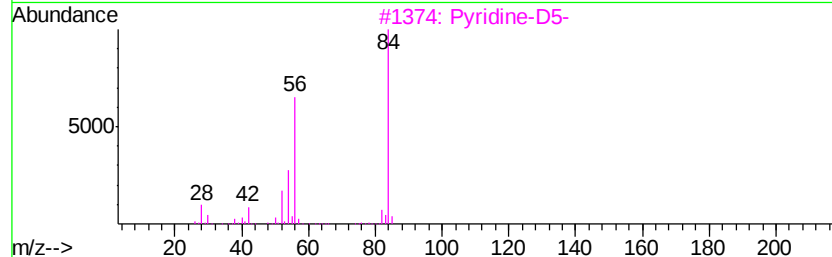
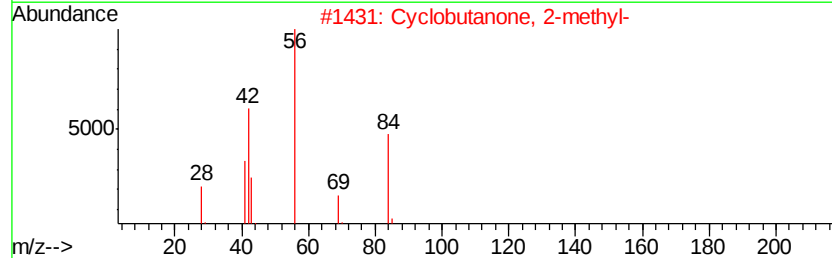
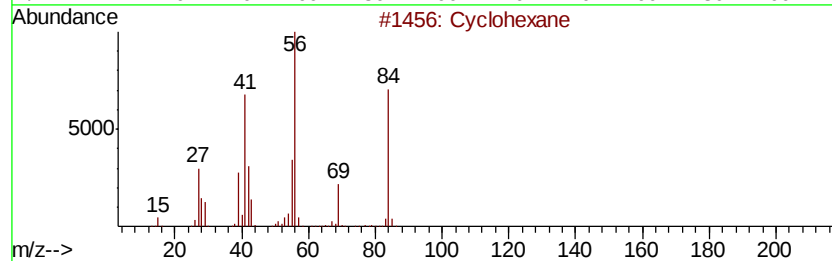
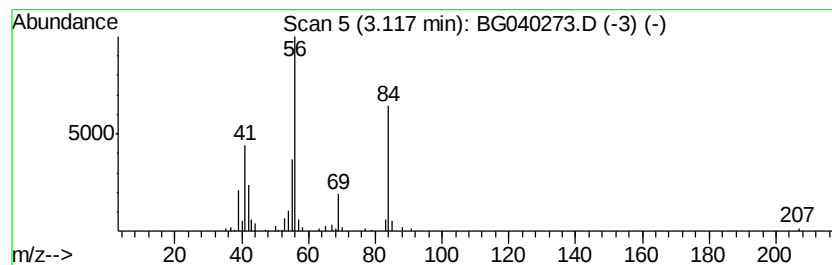
Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Cyclobutanone, 2-methyl- Concentration Rank 4

| R.T.    | EstConc | Area                     | Relative to ISTD       | R.T.    |             |      |
|---------|---------|--------------------------|------------------------|---------|-------------|------|
| 3.12    | 7.10 ng | 121127                   | 1,4-Dichlorobenzene-d4 | 8.05    |             |      |
| Hit# of | 5       | Tentative ID             | MW                     | MolForm | CAS#        | Qual |
| 1       |         | Cyclohexane              | 84                     | C6H12   | 000110-82-7 | 91   |
| 2       |         | Cyclobutanone, 2-methyl- | 84                     | C5H8O   | 001517-15-3 | 59   |
| 3       |         | Pyridine-D5-             | 84                     | C5D5N   | 007291-22-7 | 50   |
| 4       |         | Cyclopentane, methyl-    | 84                     | C6H12   | 000096-37-7 | 42   |
| 5       |         | Cyclobutane, ethyl-      | 84                     | C6H12   | 004806-61-5 | 37   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG032719.M  
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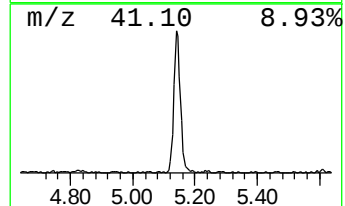
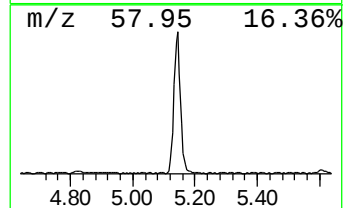
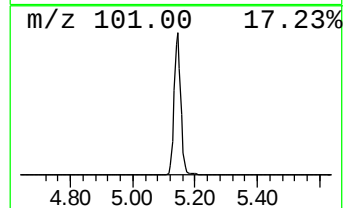
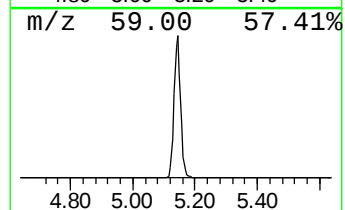
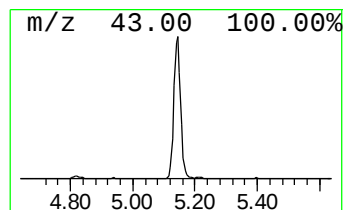
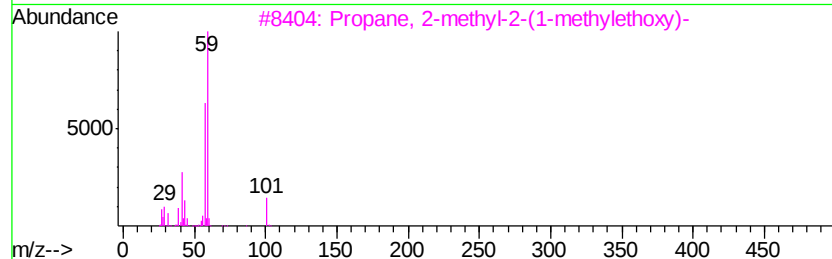
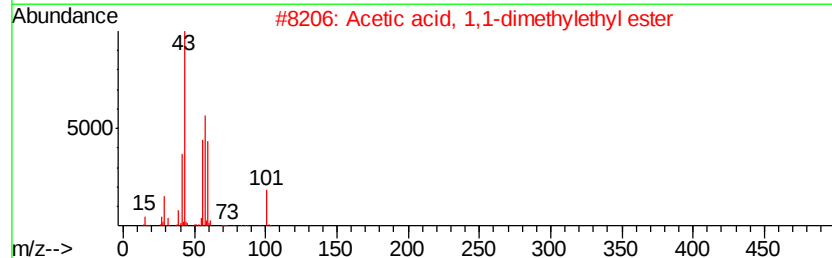
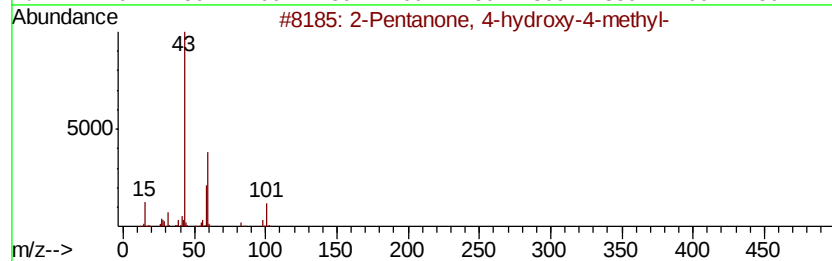
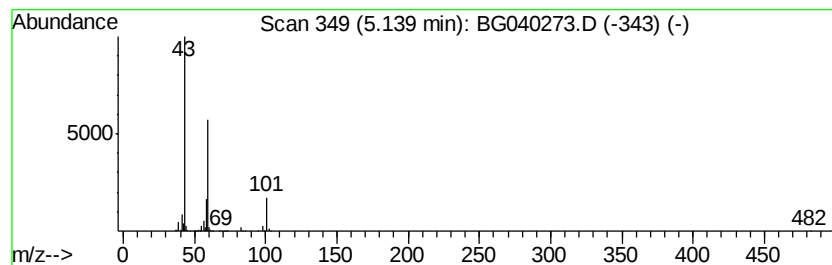
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Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.14 | 57.46 ng | 980408 | 1,4-Dichlorobenzene-d4 | 8.05 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2  | 000540-88-5 | 39   |
| 3    |    | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O   | 017348-59-3 | 33   |
| 4    |    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 5    |    | 1-Propen-2-ol, acetate              | 100 | C5H8O2   | 000108-22-5 | 10   |



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Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
T-3

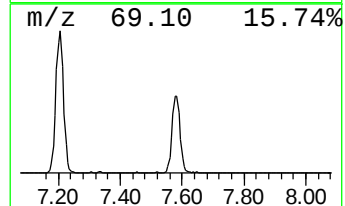
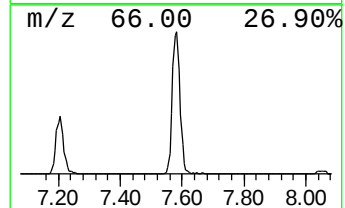
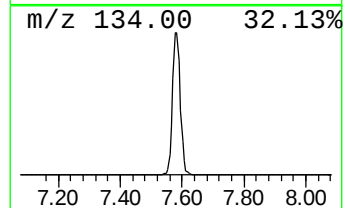
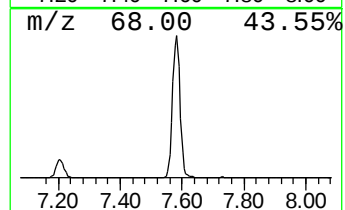
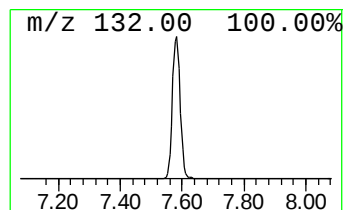
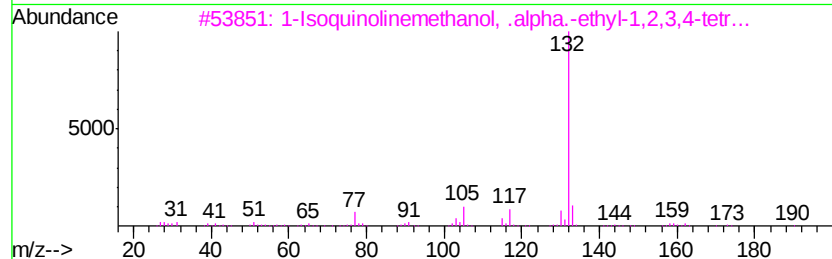
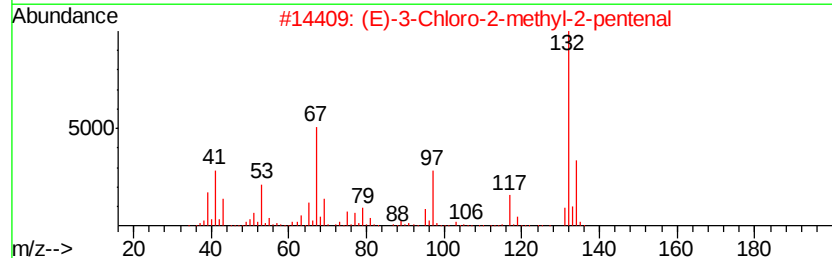
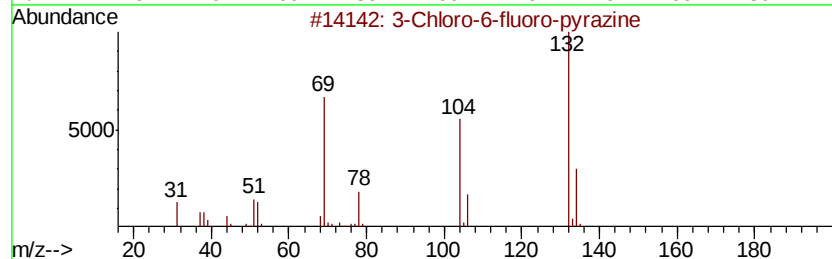
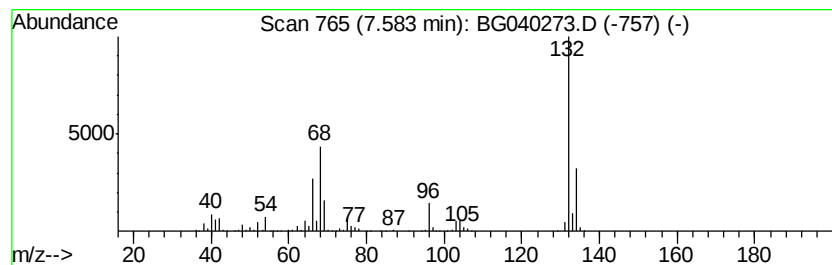
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 unknown7.58 Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.58 | 39.65 ng | 676494 | 1,4-Dichlorobenzene-d4 | 8.05 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | 1-Isoquinolinemethanol, .alpha.-... | 191 | C12H17NO  | 114608-92-3  | 12   |
| 4    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 10   |



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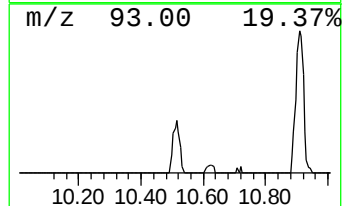
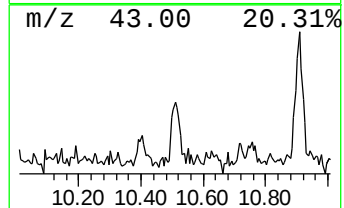
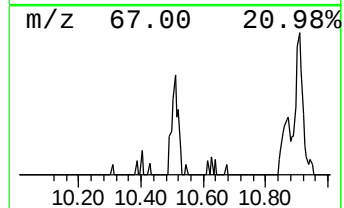
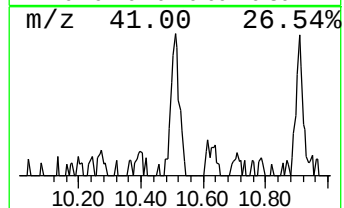
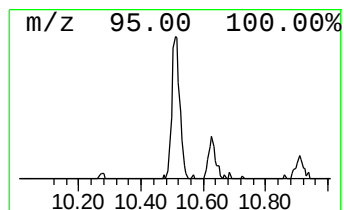
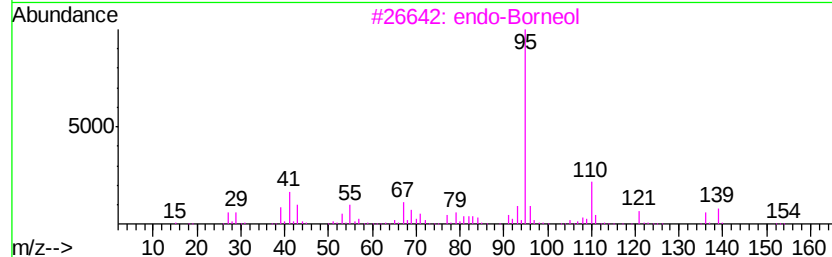
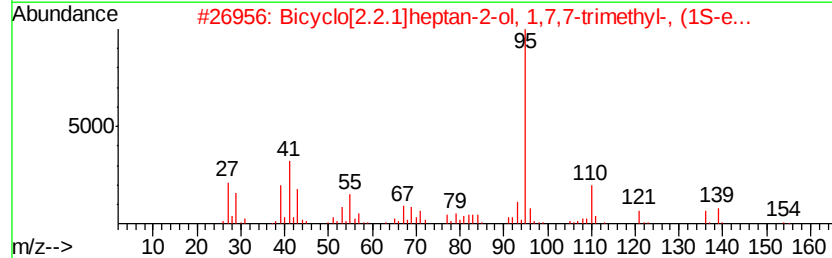
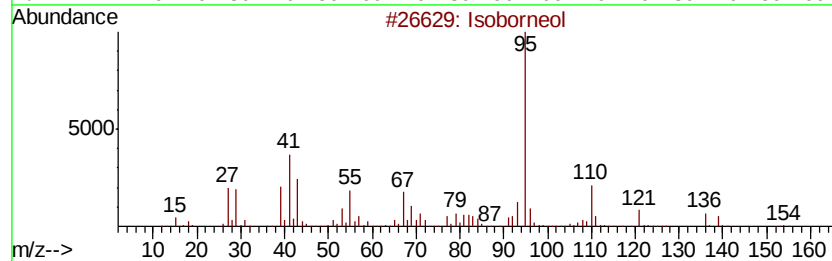
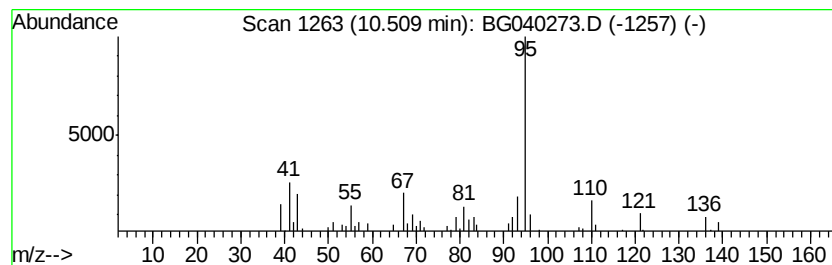
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\*\*\*\*\*  
Peak Number 5 Isoborneol Concentration Rank 6

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|-------|------------------|-------------|------|
| 10.51     | 2.23 ng                             | 57295 | Napthalene-d8    | 10.87       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#        | Qual |
| 1         | Isoborneol                          | 154   | C10H18O          | 000124-76-5 | 78   |
| 2         | Bicyclo[2.2.1]heptan-2-ol, 1,7,7... | 154   | C10H18O          | 000464-45-9 | 64   |
| 3         | endo-Borneol                        | 154   | C10H18O          | 000507-70-0 | 64   |
| 4         | 1,3-Dimethyl-1-cyclohexene          | 110   | C8H14            | 002808-76-6 | 58   |
| 5         | 1,4-Pentadiene, 2,3,3-trimethyl-    | 110   | C8H14            | 000756-02-5 | 53   |



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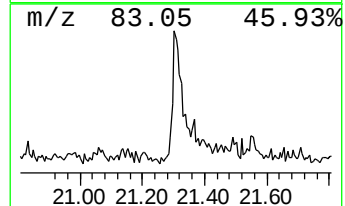
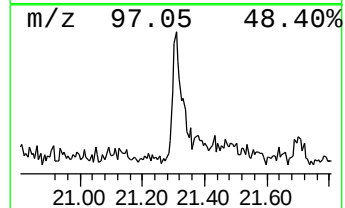
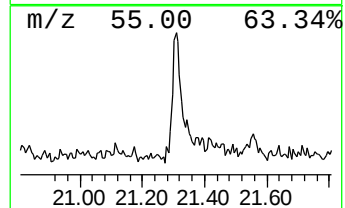
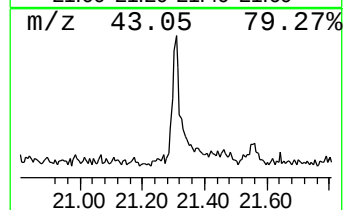
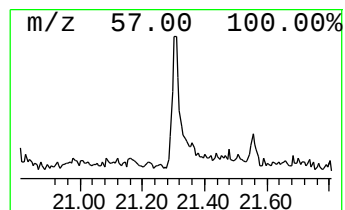
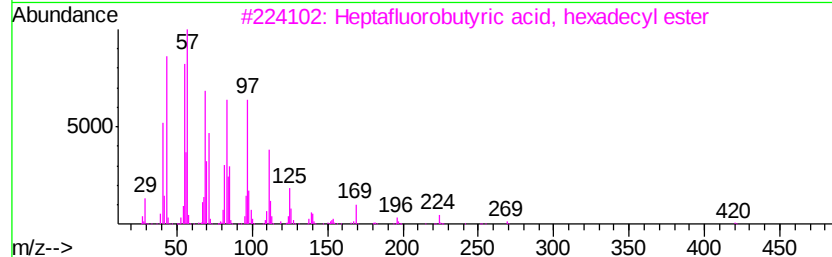
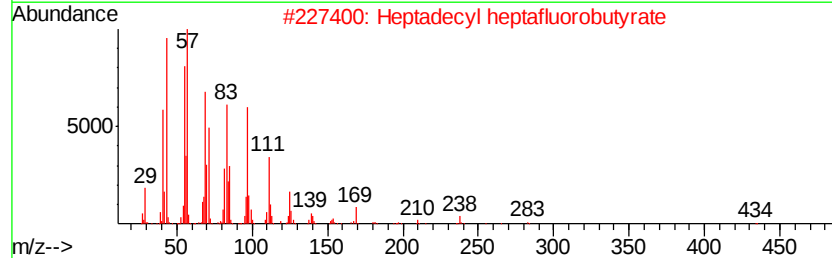
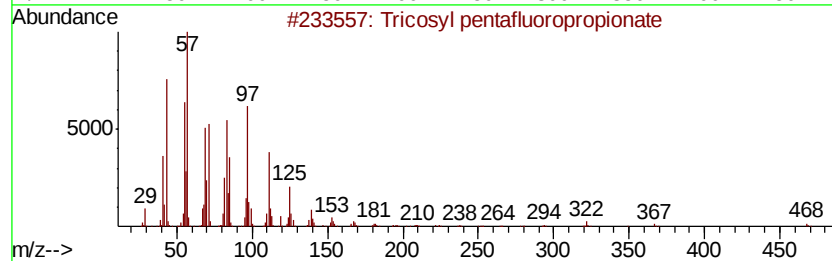
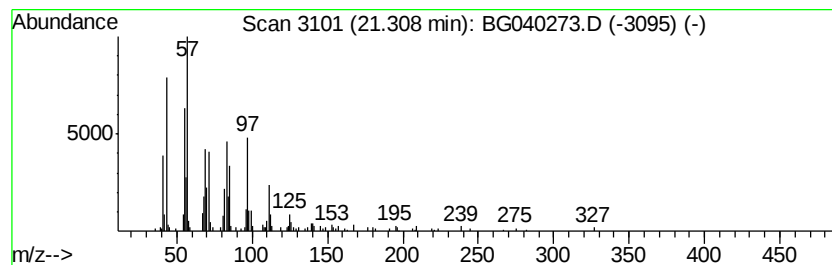
TIC Library : C:\Database\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 6 Tricosyl pentafluoropropionate Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 21.31 | 3.13 ng | 189377 | Chrysene-d12     | 21.70 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Tricosyl pentafluoropropionate      | 486 | C26H47F5O2 | 1000351-81-0 | 91   |
| 2    |    | Heptadecyl heptafluorobutyrate      | 452 | C21H35F7O2 | 959085-66-6  | 91   |
| 3    |    | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5  | 91   |
| 4    |    | Heneicosyl heptafluorobutyrate      | 508 | C25H43F7O2 | 1000351-83-8 | 91   |
| 5    |    | Tricosyl trifluoroacetate           | 436 | C25H47F3O2 | 1000351-75-1 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG040119\  
Data File : BG040273.D  
Acq On : 1 Apr 2019 20:17  
Operator : JU/SJ  
Sample : K2173-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
T-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

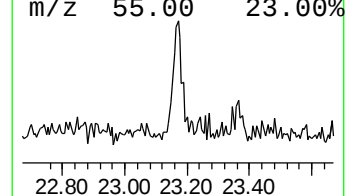
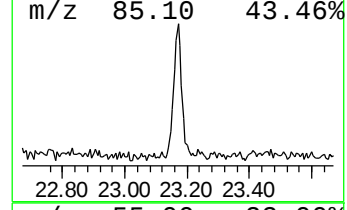
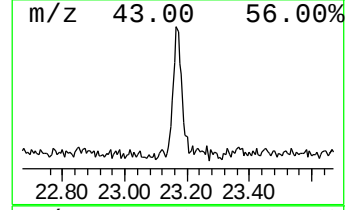
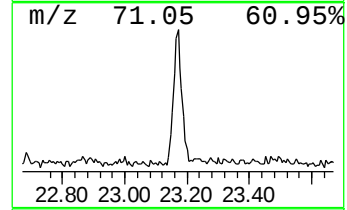
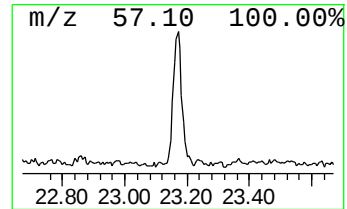
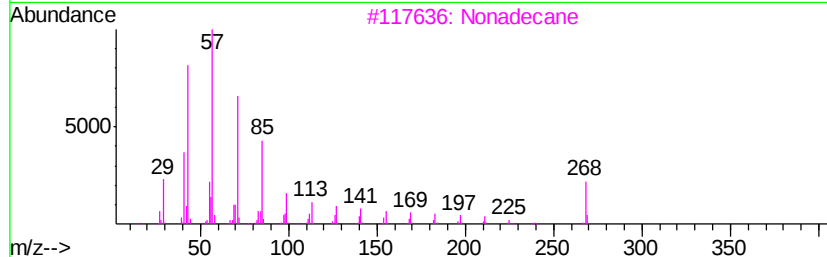
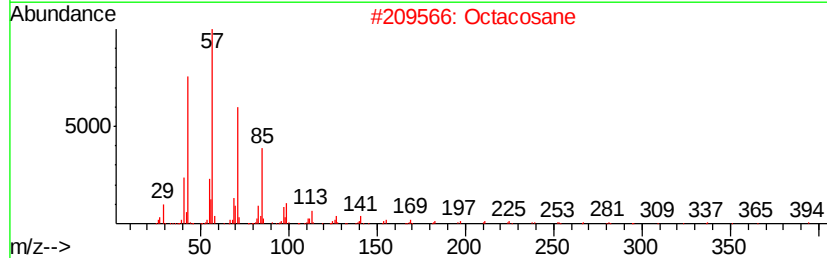
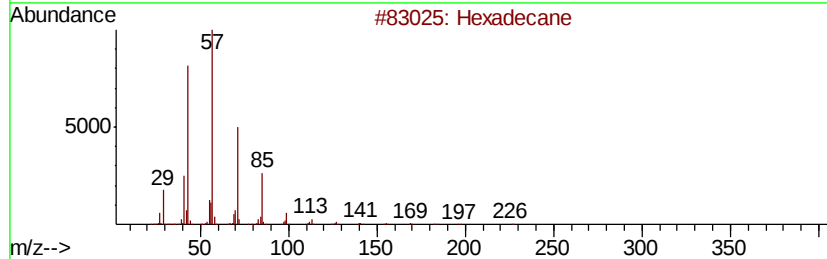
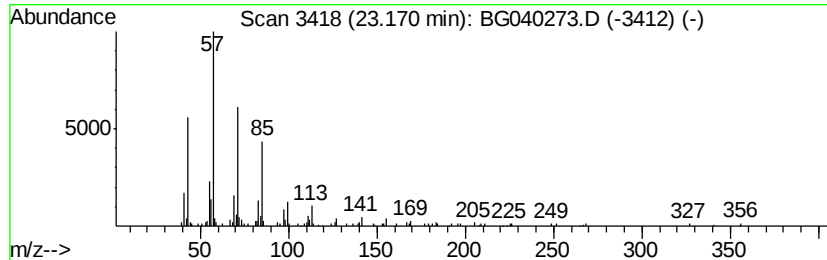
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Hexadecane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.17 | 2.17 ng | 131448 | Chrysene-d12     | 21.70 |

| Hit# of 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|-----------|--------------|-----|---------|-------------|------|
| 1         | Hexadecane   | 226 | C16H34  | 000544-76-3 | 90   |
| 2         | Octacosane   | 394 | C28H58  | 000630-02-4 | 90   |
| 3         | Nonadecane   | 268 | C19H40  | 000629-92-5 | 90   |
| 4         | Eicosane     | 282 | C20H42  | 000112-95-8 | 87   |
| 5         | Heptacosane  | 380 | C27H56  | 000593-49-7 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG040119\  
Data File : BG040273.D  
Acq On : 1 Apr 2019 20:17  
Operator : JU/SJ  
Sample : K2173-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

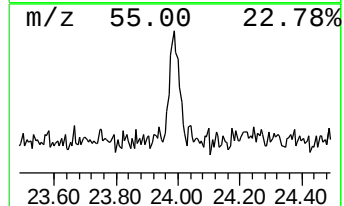
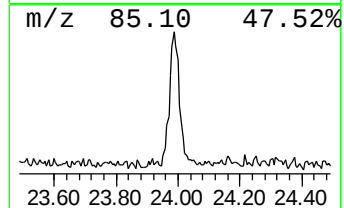
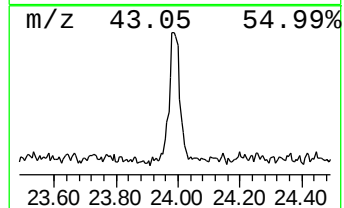
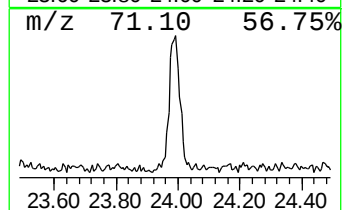
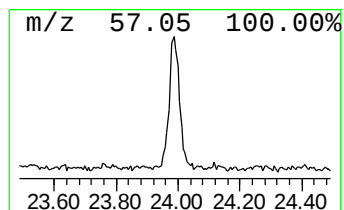
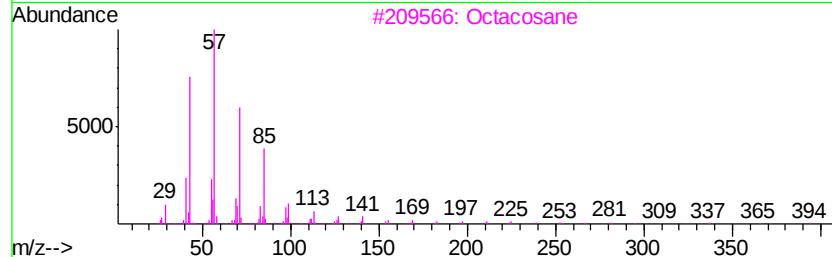
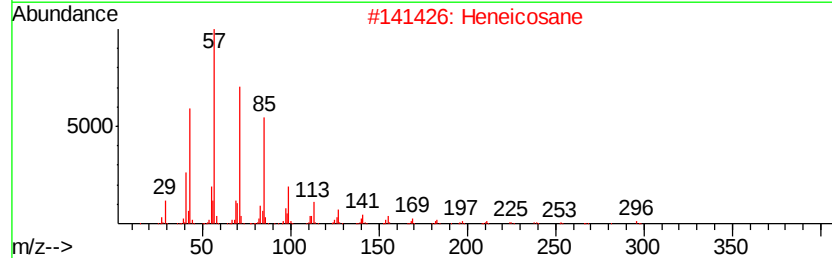
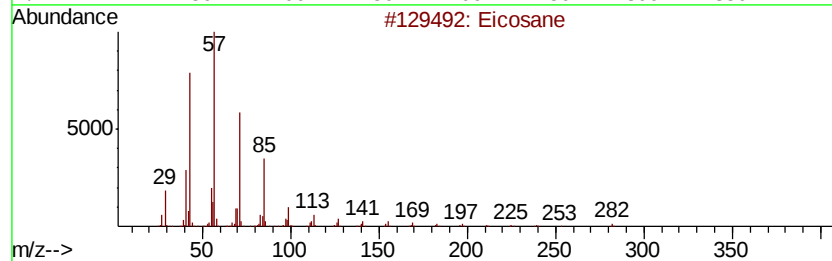
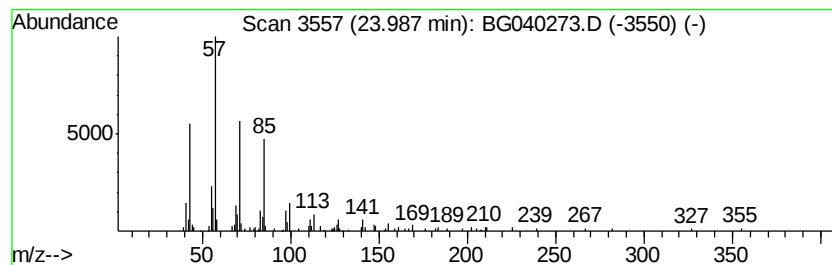
Instrument :  
BNA\_G  
ClientSampleId :  
T-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG032719.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 Eicosane Concentration Rank 8

| R.T.    | EstConc     | Area         | Relative to ISTD | R.T.      |
|---------|-------------|--------------|------------------|-----------|
| 23.99   | 2.09 ng     | 138464       | Perylene-d12     | 25.00     |
| Hit# of | 5           | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Eicosane    | 282 C20H42   | 000112-95-8      | 95        |
| 2       | Heneicosane | 296 C21H44   | 000629-94-7      | 90        |
| 3       | Octacosane  | 394 C28H58   | 000630-02-4      | 90        |
| 4       | Tetracosane | 338 C24H50   | 000646-31-1      | 90        |
| 5       | Hexacosane  | 366 C26H54   | 000630-01-3      | 87        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG040119\  
Data File : BG040273.D  
Acq On : 1 Apr 2019 20:17  
Operator : JU/SJ  
Sample : K2173-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
T-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG032719.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 |
| Cyclobutanone, 2-... | 3.12  | 7.1 ng  |       | 121127   | 1                     | 8.05  | 341232  | 20.0 |
| 2-Pentanone, 4-hy... | 5.14  | 57.5 ng |       | 980408   | 1                     | 8.05  | 341232  | 20.0 |
| unknown7.58          | 7.58  | 39.6 ng |       | 676494   | 1                     | 8.05  | 341232  | 20.0 |
| Isoborneol           | 10.51 | 2.2 ng  |       | 57295    | 2                     | 10.87 | 514623  | 20.0 |
| Tricosyl pentaflu... | 21.31 | 3.1 ng  |       | 189377   | 5                     | 21.70 | 1210730 | 20.0 |
| Hexadecane           | 23.17 | 2.2 ng  |       | 131448   | 5                     | 21.70 | 1210730 | 20.0 |
| Eicosane             | 23.99 | 2.1 ng  |       | 138464   | 6                     | 25.00 | 1326190 | 20.0 |