

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG040319\  
 Data File : BG040342.D  
 Acq On : 4 Apr 2019 1:52  
 Operator : JU/SJ  
 Sample : K2219-02  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-2-3-COMP

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         | 5.602       | 421           | 428         | 438          | rBV      | 1161041        | 1884742       | 51.85%          | 7.903%        |
| 2         | 7.206       | 691           | 701         | 715          | rBV      | 1175677        | 2081445       | 57.26%          | 8.728%        |
| 3         | 7.577       | 756           | 764         | 773          | rBV      | 1158995        | 1979072       | 54.44%          | 8.299%        |
| 4         | 8.047       | 837           | 844         | 855          | rBV      | 236425         | 402140        | 11.06%          | 1.686%        |
| 5         | 8.370       | 891           | 899         | 908          | rBV      | 828903         | 1447239       | 39.81%          | 6.069%        |
| 6         | 9.222       | 1036          | 1044        | 1053         | rBV      | 682176         | 1248045       | 34.33%          | 5.233%        |
| 7         | 10.861      | 1316          | 1323        | 1335         | rBV      | 292666         | 533788        | 14.68%          | 2.238%        |
| 8         | 13.299      | 1730          | 1738        | 1751         | rBV      | 1559559        | 2436983       | 67.04%          | 10.219%       |
| 9         | 14.122      | 1872          | 1878        | 1886         | rBV      | 96152          | 147939        | 4.07%           | 0.620%        |
| 10        | 14.680      | 1963          | 1973        | 1980         | rBV2     | 453884         | 763516        | 21.00%          | 3.202%        |
| 11        | 16.166      | 2219          | 2226        | 2238         | rBV      | 1406749        | 2250338       | 61.90%          | 9.436%        |
| 12        | 17.424      | 2433          | 2440        | 2453         | rVB2     | 641665         | 995702        | 27.39%          | 4.175%        |
| 13        | 18.282      | 2581          | 2586        | 2595         | rBV2     | 50477          | 94157         | 2.59%           | 0.395%        |
| 14        | 20.021      | 2876          | 2882        | 2892         | rVB      | 2608830        | 3635222       | 100.00%         | 15.244%       |
| 15        | 20.291      | 2924          | 2928        | 2932         | rVB      | 48845          | 54933         | 1.51%           | 0.230%        |
| 16        | 20.785      | 3009          | 3012        | 3017         | rBV      | 45959          | 53627         | 1.48%           | 0.225%        |
| 17        | 21.296      | 3094          | 3099        | 3107         | rBV2     | 117947         | 202989        | 5.58%           | 0.851%        |
| 18        | 21.695      | 3160          | 3167        | 3180         | rBV2     | 742001         | 1268067       | 34.88%          | 5.317%        |
| 19        | 21.836      | 3187          | 3191        | 3199         | rVB      | 37975          | 62051         | 1.71%           | 0.260%        |
| 20        | 22.442      | 3290          | 3294        | 3299         | rBV      | 57197          | 95339         | 2.62%           | 0.400%        |
| 21        | 23.141      | 3407          | 3413        | 3419         | rVB      | 74286          | 136164        | 3.75%           | 0.571%        |
| 22        | 23.946      | 3543          | 3550        | 3560         | rVB2     | 112255         | 251199        | 6.91%           | 1.053%        |
| 23        | 24.903      | 3706          | 3713        | 3717         | rBV3     | 70958          | 180411        | 4.96%           | 0.757%        |
| 24        | 24.974      | 3717          | 3725        | 3741         | rVB2     | 421852         | 1223555       | 33.66%          | 5.131%        |
| 25        | 26.037      | 3897          | 3906        | 3916         | rBV3     | 100991         | 289936        | 7.98%           | 1.216%        |
| 26        | 27.400      | 4131          | 4138        | 4152         | rVB5     | 37060          | 128646        | 3.54%           | 0.539%        |

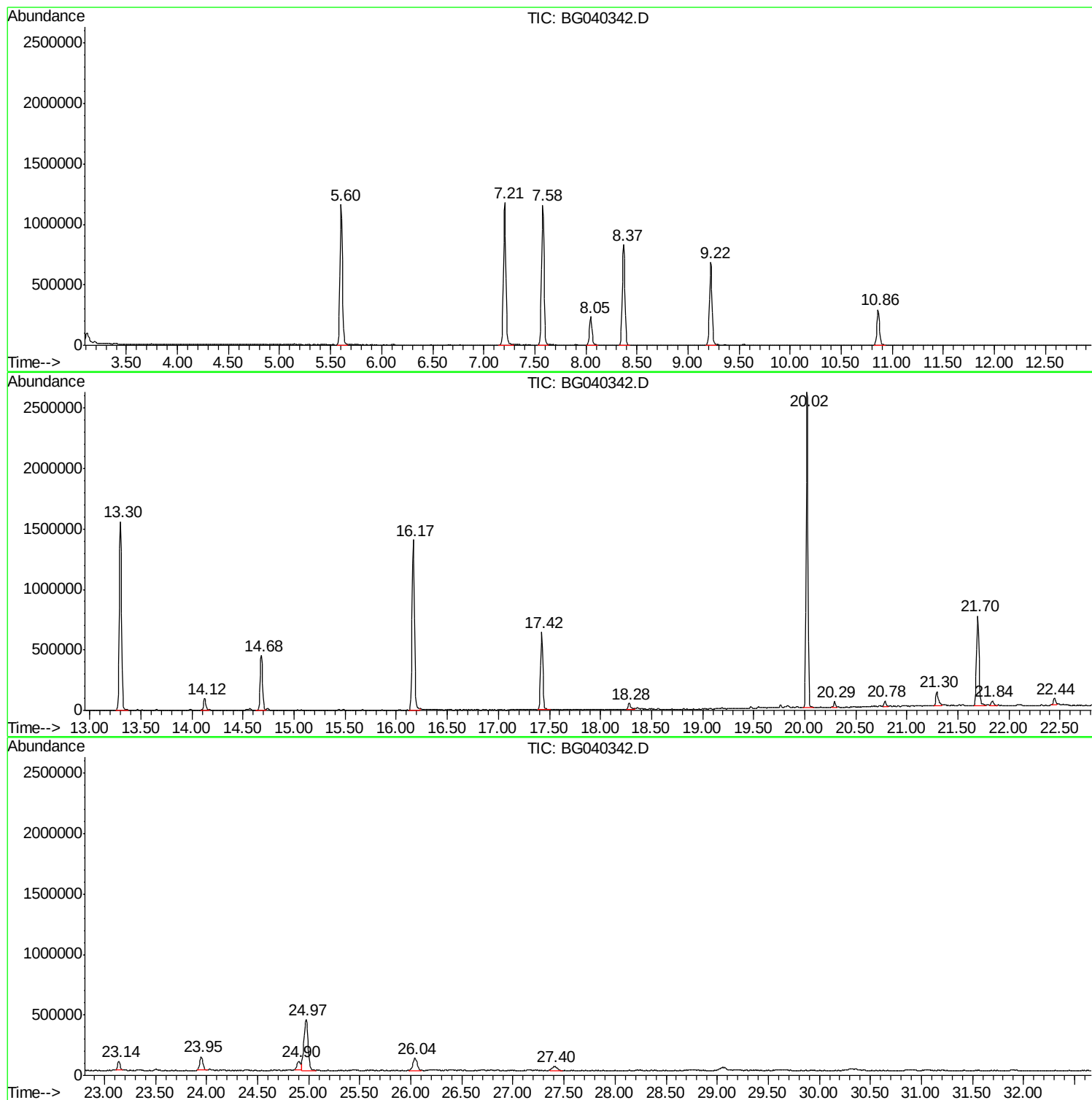
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BNA\_G  
ClientSampleId :  
TP-2-3-COMP

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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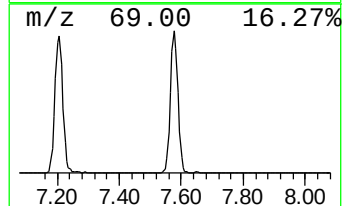
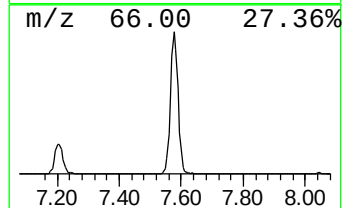
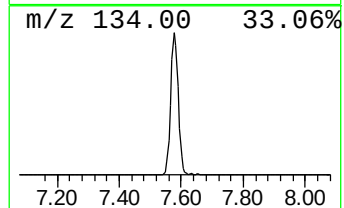
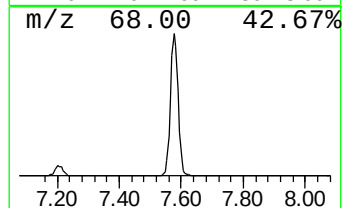
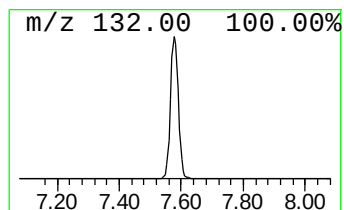
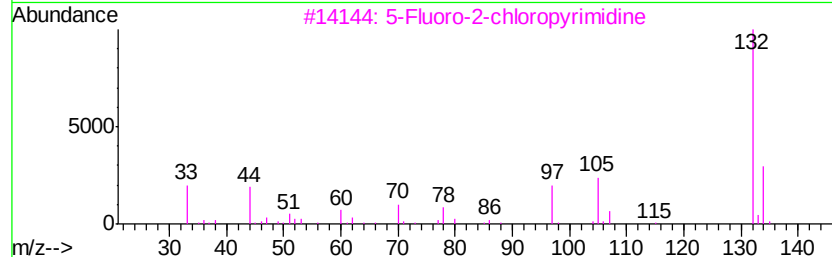
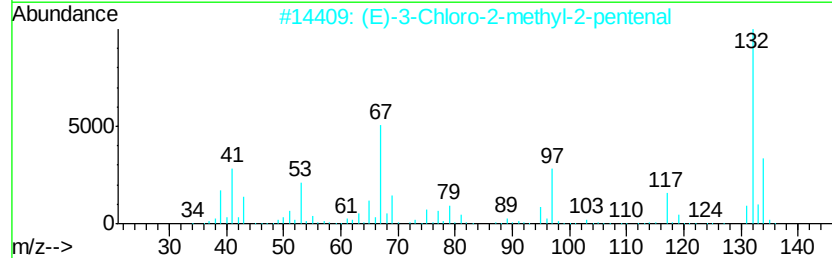
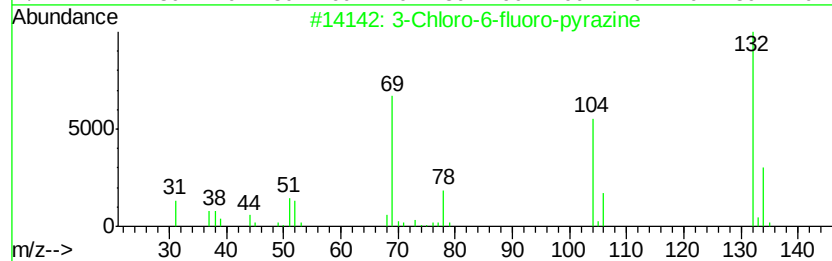
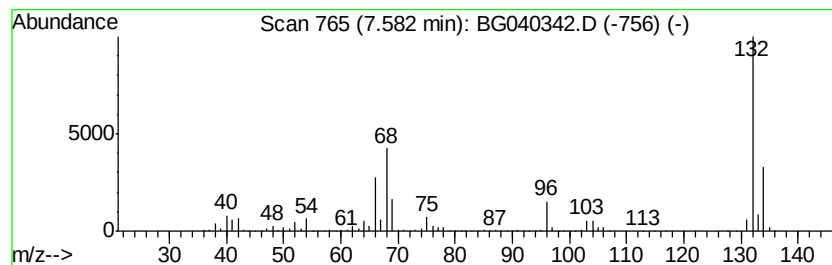
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown7.58 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.58 | 98.43 ng | 1979070 | 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    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 16   |
| 4    |    | (5-Methyl-2-pyridyl)acetonitrile | 132 | C8H8N2    | 1000241-93-9 | 10   |
| 5    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 9    |



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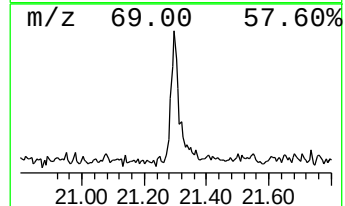
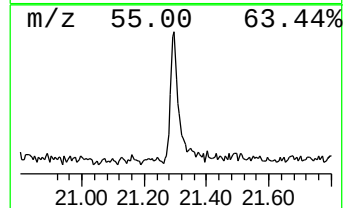
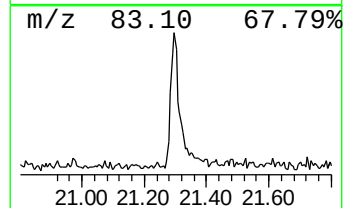
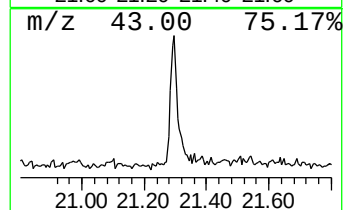
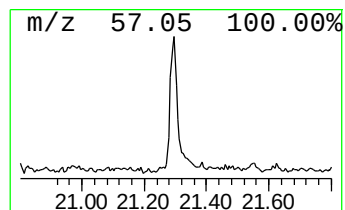
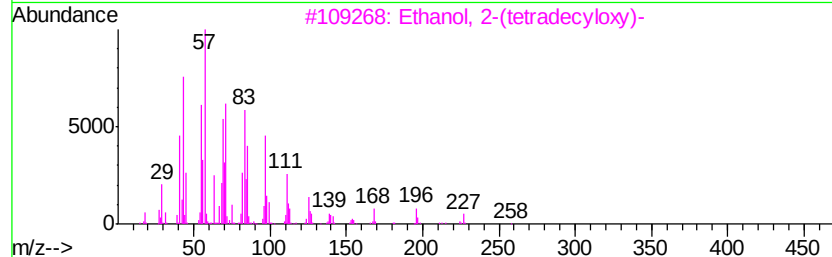
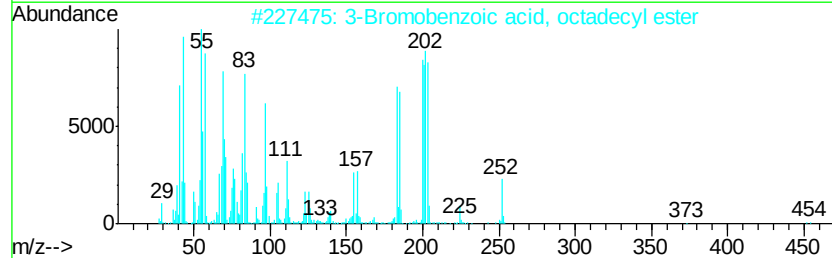
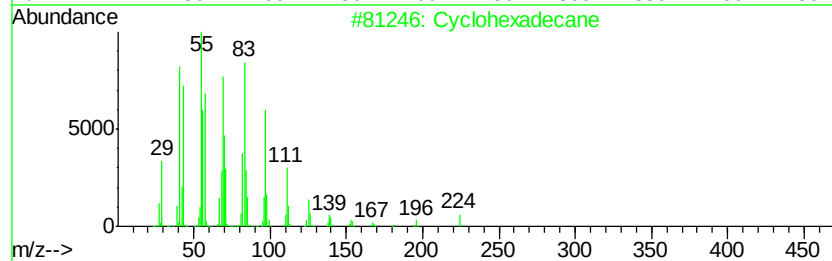
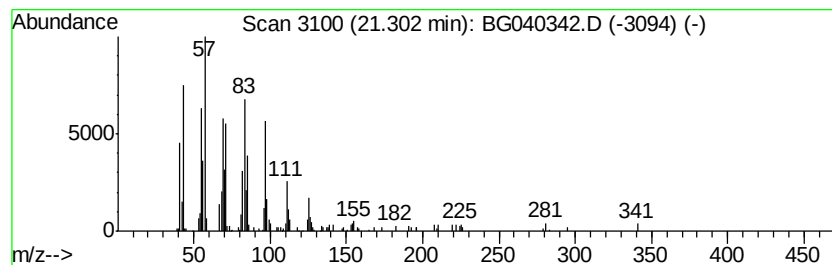
Instrument :  
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TP-2-3-COMP

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Peak Number 3 Cyclohexadecane Concentration Rank 5

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.            |
|---------|---------|-------------------------------------|------------------|-----------------|
| 21.30   | 3.20 ng | 202989                              | Chrysene-d12     | 21.70           |
| Hit# of | 5       | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |         | Cyclohexadecane                     | 224 C16H32       | 000295-65-8 96  |
| 2       |         | 3-Bromobenzoic acid, octadecyl e... | 452 C25H41BrO2   | 070153-14-9 92  |
| 3       |         | Ethanol, 2-(tetradecyloxy)-         | 258 C16H34O2     | 002136-70-1 91  |
| 4       |         | Tricosyl heptafluorobutyrate        | 536 C27H47F7O2   | 1000351-83-4 91 |
| 5       |         | 1-Hexadecanesulfonyl chloride       | 324 C16H33ClO2S  | 038775-38-1 91  |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG032719.M  
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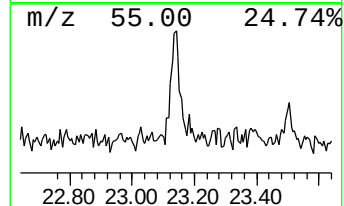
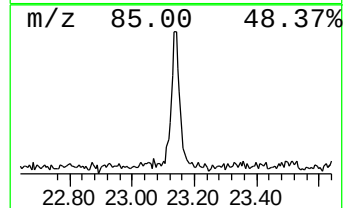
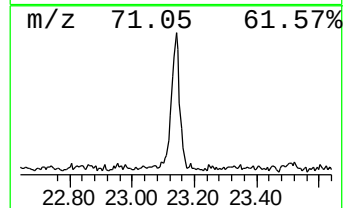
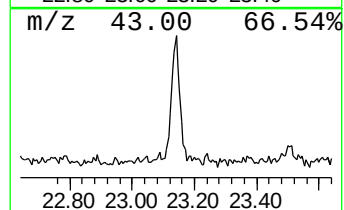
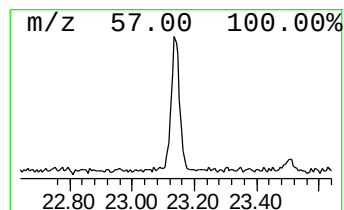
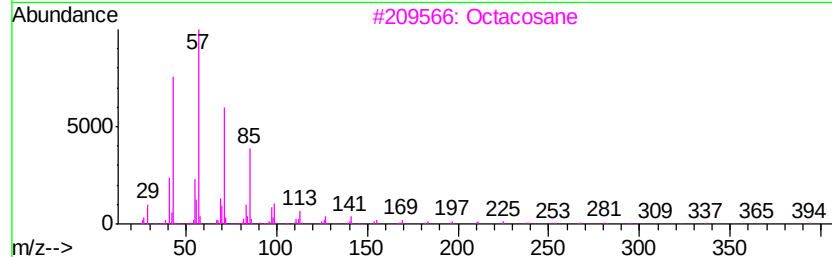
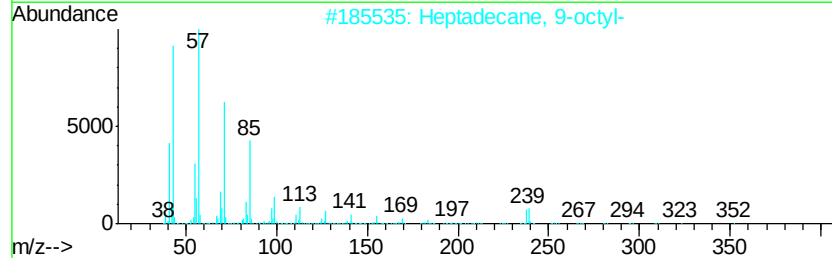
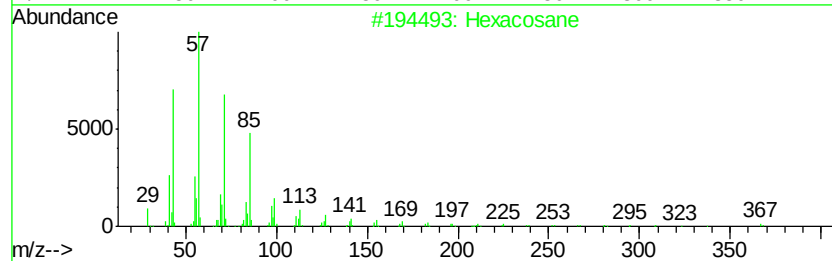
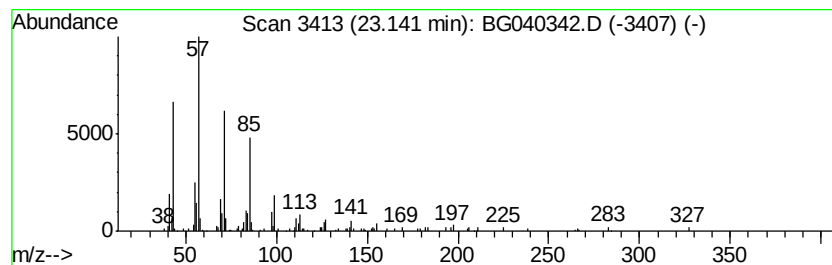
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Hexacosane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.14 | 2.15 ng | 136164 | Chrysene-d12     | 21.70 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexacosane            | 366 | C26H54  | 000630-01-3 | 91   |
| 2    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 87   |
| 3    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 87   |
| 4    |    | Octadecane            | 254 | C18H38  | 000593-45-3 | 87   |
| 5    |    | Heptadecane           | 240 | C17H36  | 000629-78-7 | 87   |



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

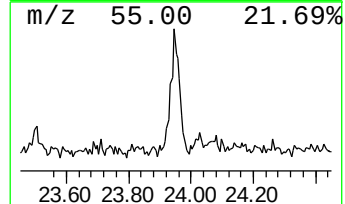
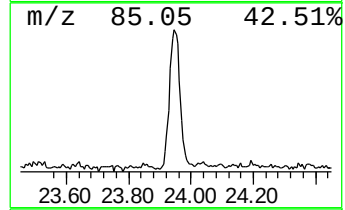
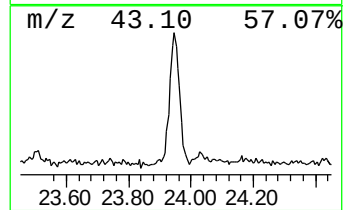
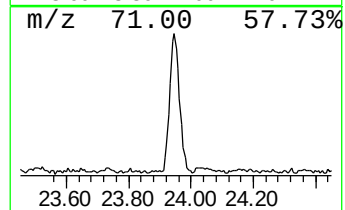
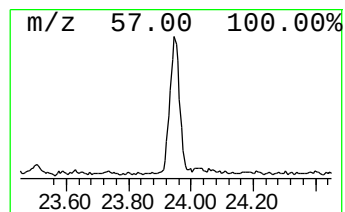
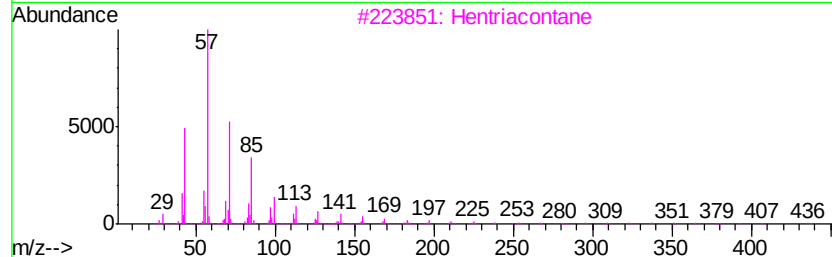
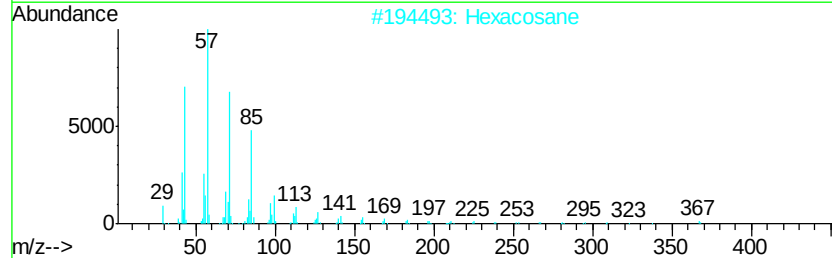
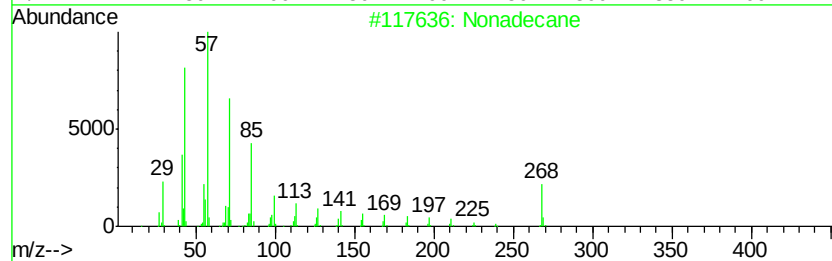
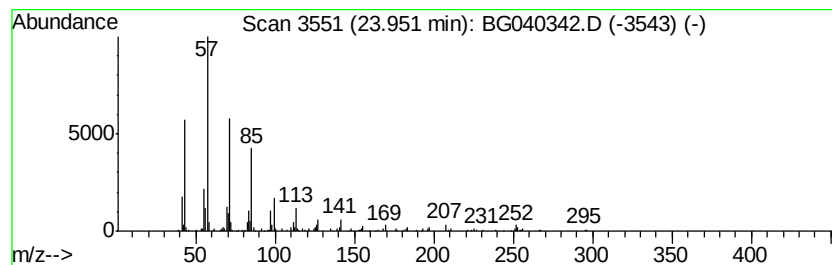
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Nonadecane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 23.95 | 4.11 ng | 251199 | Perylene-d12     | 24.97 |

| Hit# of | 5                      | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------|--------------|-----|---------|-------------|------|
| 1       | Nonadecane             |              | 268 | C19H40  | 000629-92-5 | 90   |
| 2       | Hexacosane             |              | 366 | C26H54  | 000630-01-3 | 87   |
| 3       | Hentriacontane         |              | 437 | C31H64  | 000630-04-6 | 87   |
| 4       | Tetracosane, 11-decyl- |              | 479 | C34H70  | 055429-84-0 | 87   |
| 5       | Docosane               |              | 310 | C22H46  | 000629-97-0 | 83   |



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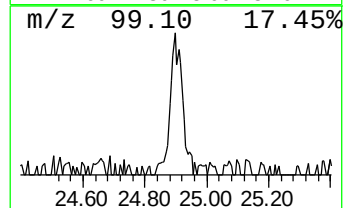
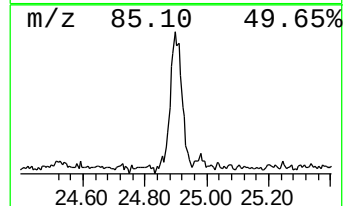
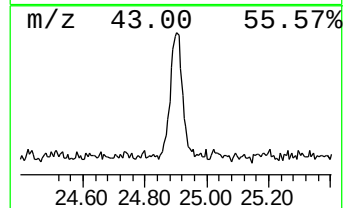
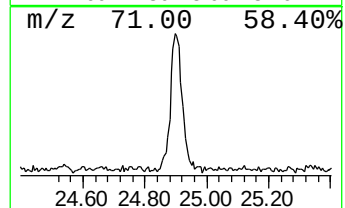
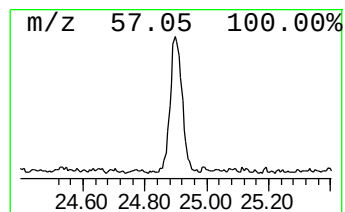
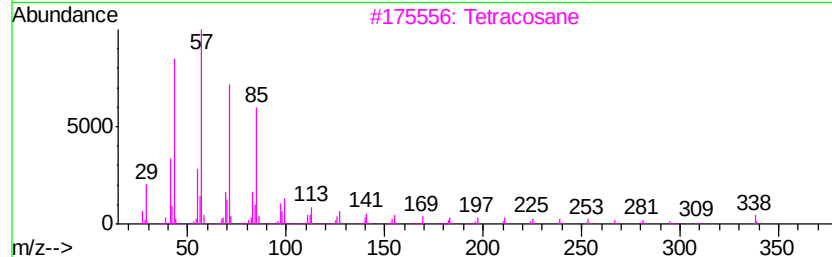
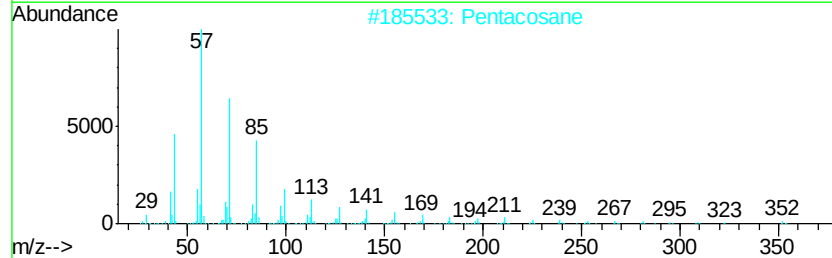
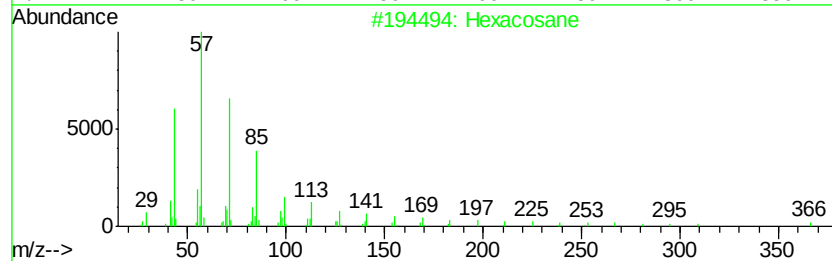
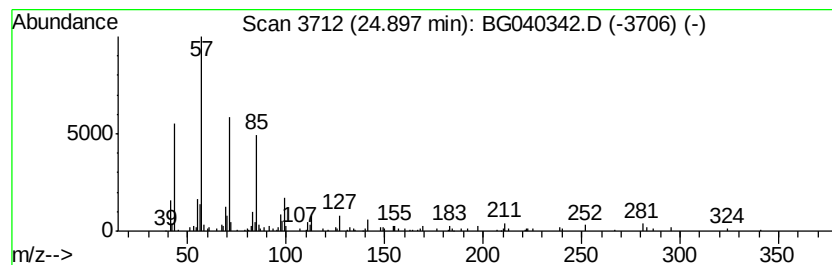
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Peak Number 6 Pentacosane Concentration Rank 6

| R.T.      | EstConc        | Area   | Relative to ISTD | R.T.        |      |
|-----------|----------------|--------|------------------|-------------|------|
| 24.90     | 2.95 ng        | 180411 | Perylene-d12     | 24.97       |      |
| Hit# of 5 | Tentative ID   | MW     | MolForm          | CAS#        | Qual |
| 1         | Hexacosane     | 366    | C26H54           | 000630-01-3 | 91   |
| 2         | Pentacosane    | 352    | C25H52           | 000629-99-2 | 90   |
| 3         | Tetracosane    | 338    | C24H50           | 000646-31-1 | 90   |
| 4         | Hentriacontane | 437    | C31H64           | 000630-04-6 | 87   |
| 5         | Docosane       | 310    | C22H46           | 000629-97-0 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG040319\  
Data File : BG040342.D  
Acq On : 4 Apr 2019 1:52  
Operator : JU/SJ  
Sample : K2219-02  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
TP-2-3-COMP

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

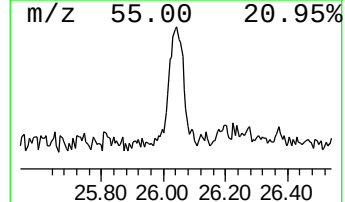
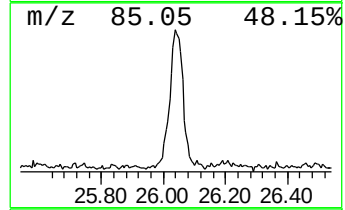
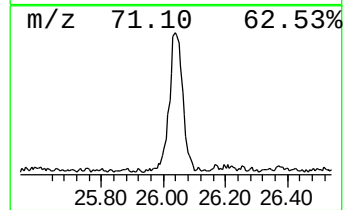
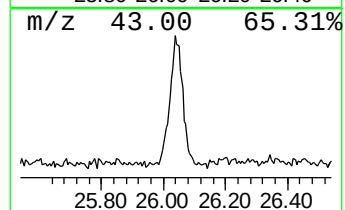
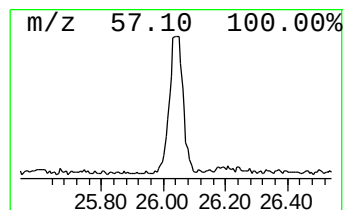
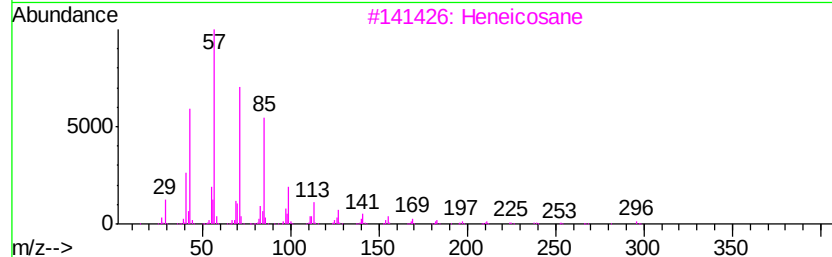
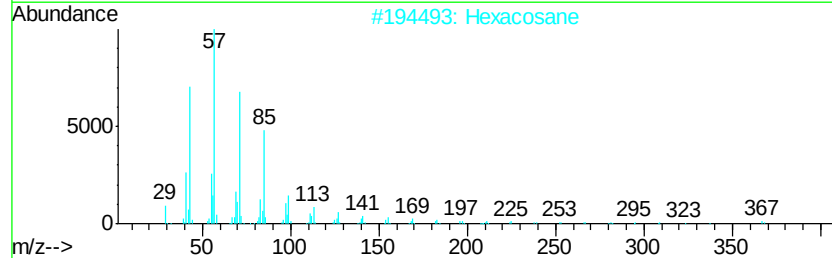
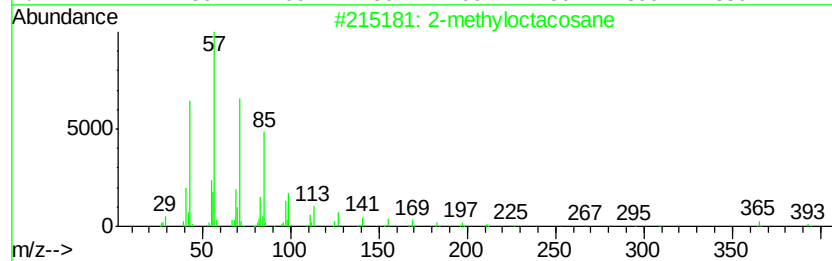
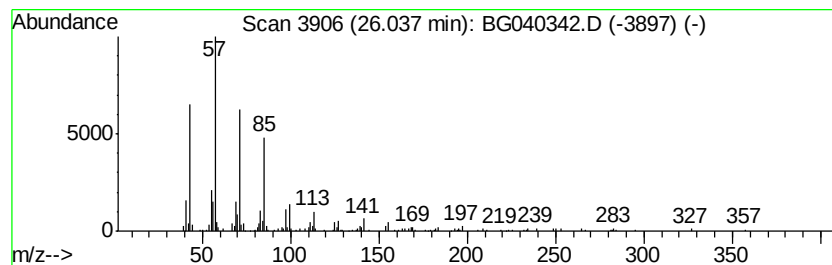
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 2-methyloctacosane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD |  | R.T.  |
|-------|---------|--------|------------------|--|-------|
| 26.04 | 4.74 ng | 289936 | Perylene-d12     |  | 24.97 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm | CAS#         | Qual |
|---------|--------------------|--------------|-----|---------|--------------|------|
| 1       | 2-methyloctacosane |              | 408 | C29H60  | 1000376-72-8 | 90   |
| 2       | Hexacosane         |              | 366 | C26H54  | 000630-01-3  | 90   |
| 3       | Heneicosane        |              | 296 | C21H44  | 000629-94-7  | 90   |
| 4       | Tetracosane        |              | 338 | C24H50  | 000646-31-1  | 87   |
| 5       | Octacosane         |              | 394 | C28H58  | 000630-02-4  | 87   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG040319\  
Data File : BG040342.D  
Acq On : 4 Apr 2019 1:52  
Operator : JU/SJ  
Sample : K2219-02  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

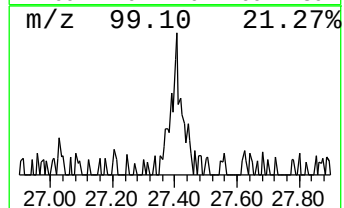
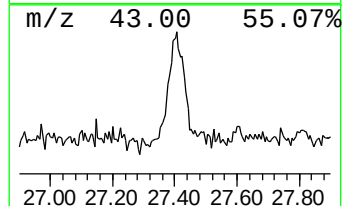
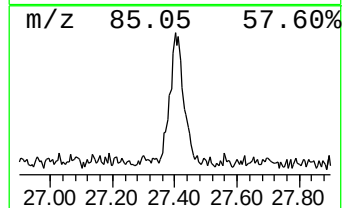
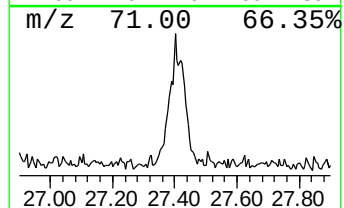
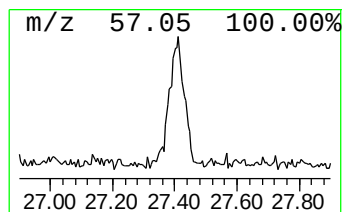
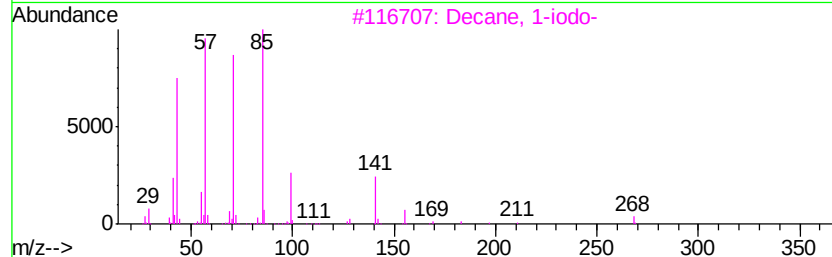
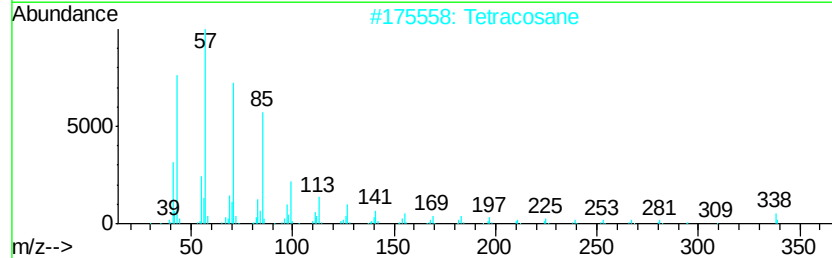
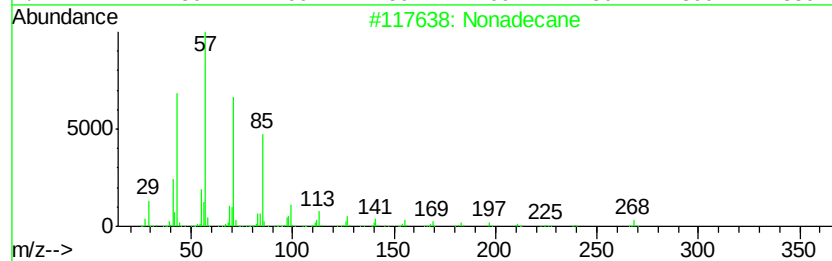
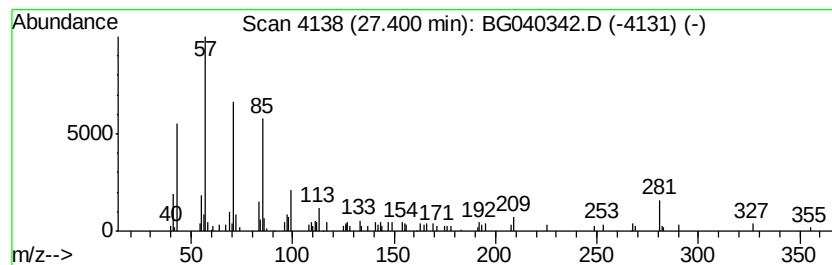
Instrument :  
BNA\_G  
ClientSampleId :  
TP-2-3-COMP

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 Decane, 1-iodo- Concentration Rank 8

| R.T.      | EstConc            | Area   | Relative to ISTD |              | R.T.  |
|-----------|--------------------|--------|------------------|--------------|-------|
| 27.40     | 2.10 ng            | 128646 | Perylene-d12     |              | 24.97 |
| Hit# of 5 | Tentative ID       | MW     | MolForm          | CAS#         | Qual  |
| 1         | Nonadecane         | 268    | C19H40           | 000629-92-5  | 81    |
| 2         | Tetracosane        | 338    | C24H50           | 000646-31-1  | 80    |
| 3         | Decane, 1-iodo-    | 268    | C10H21I          | 002050-77-3  | 70    |
| 4         | 2-methyloctacosane | 408    | C29H60           | 1000376-72-8 | 64    |
| 5         | Dodecane, 1-iodo-  | 296    | C12H25I          | 004292-19-7  | 59    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG040319\  
Data File : BG040342.D  
Acq On : 4 Apr 2019 1:52  
Operator : JU/SJ  
Sample : K2219-02  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
TP-2-3-COMP

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 |
| unknown7.58        | 7.58  | 98.4    | ng    | 1979070  | 1                     | 8.05  | 402140  | 20.0 |
| Cyclohexadecane    | 21.30 | 3.2     | ng    | 202989   | 5                     | 21.70 | 1268070 | 20.0 |
| Hexacosane         | 23.14 | 2.1     | ng    | 136164   | 5                     | 21.70 | 1268070 | 20.0 |
| Nonadecane         | 23.95 | 4.1     | ng    | 251199   | 6                     | 24.97 | 1223560 | 20.0 |
| Pentacosane        | 24.90 | 3.0     | ng    | 180411   | 6                     | 24.97 | 1223560 | 20.0 |
| 2-methyloctacosane | 26.04 | 4.7     | ng    | 289936   | 6                     | 24.97 | 1223560 | 20.0 |
| Decane, 1-iodo-    | 27.40 | 2.1     | ng    | 128646   | 6                     | 24.97 | 1223560 | 20.0 |