

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
 Data File : BG039947.D  
 Acq On : 15 Mar 2019 18:49  
 Operator : JU/SJ  
 Sample : K1909-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MH-02

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-BG030419.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         | 3.197       | 13            | 18          | 27           | rBV      | 290325         | 578671        | 22.33%          | 3.349%        |
| 2         | 3.273       | 27            | 31          | 50           | rVB      | 478101         | 723621        | 27.93%          | 4.188%        |
| 3         | 5.230       | 359           | 364         | 374          | rBV2     | 19421          | 31445         | 1.21%           | 0.182%        |
| 4         | 5.688       | 436           | 442         | 452          | rVB      | 194184         | 314002        | 12.12%          | 1.817%        |
| 5         | 7.292       | 709           | 715         | 726          | rVB      | 122413         | 225462        | 8.70%           | 1.305%        |
| 6         | 7.673       | 771           | 780         | 794          | rBV      | 390179         | 673236        | 25.98%          | 3.897%        |
| 7         | 8.149       | 855           | 861         | 868          | rVB      | 159985         | 277582        | 10.71%          | 1.607%        |
| 8         | 8.472       | 907           | 916         | 924          | rVB      | 579122         | 1010090       | 38.98%          | 5.846%        |
| 9         | 9.324       | 1052          | 1061        | 1069         | rBV      | 501925         | 881810        | 34.03%          | 5.104%        |
| 10        | 9.864       | 1143          | 1153        | 1164         | rVB3     | 39934          | 68146         | 2.63%           | 0.394%        |
| 11        | 10.376      | 1231          | 1240        | 1244         | rBV3     | 17559          | 31114         | 1.20%           | 0.180%        |
| 12        | 10.728      | 1292          | 1300        | 1308         | rBV3     | 34191          | 66363         | 2.56%           | 0.384%        |
| 13        | 10.816      | 1308          | 1315        | 1319         | rBV3     | 27236          | 51050         | 1.97%           | 0.295%        |
| 14        | 10.969      | 1334          | 1341        | 1345         | rBV      | 225387         | 436660        | 16.85%          | 2.527%        |
| 15        | 11.004      | 1345          | 1347        | 1354         | rVB      | 144718         | 202578        | 7.82%           | 1.173%        |
| 16        | 12.672      | 1624          | 1631        | 1637         | rBV3     | 21785          | 36108         | 1.39%           | 0.209%        |
| 17        | 13.395      | 1745          | 1754        | 1761         | rBV      | 1335799        | 2099787       | 81.04%          | 12.154%       |
| 18        | 14.217      | 1886          | 1894        | 1898         | rBV      | 34872          | 53157         | 2.05%           | 0.308%        |
| 19        | 14.682      | 1968          | 1973        | 1981         | rBV      | 15452          | 27038         | 1.04%           | 0.156%        |
| 20        | 14.775      | 1981          | 1989        | 1998         | rVV2     | 356151         | 592474        | 22.87%          | 3.429%        |
| 21        | 15.281      | 2066          | 2075        | 2087         | rBV      | 293923         | 548357        | 21.16%          | 3.174%        |
| 22        | 15.410      | 2091          | 2097        | 2103         | rVB6     | 20417          | 36494         | 1.41%           | 0.211%        |
| 23        | 15.809      | 2161          | 2165        | 2172         | rBV7     | 17168          | 31566         | 1.22%           | 0.183%        |
| 24        | 16.256      | 2235          | 2241        | 2251         | rBV      | 626660         | 997295        | 38.49%          | 5.772%        |
| 25        | 17.519      | 2449          | 2456        | 2469         | rBV2     | 479666         | 789770        | 30.48%          | 4.571%        |
| 26        | 18.095      | 2548          | 2554        | 2558         | rBV7     | 20339          | 36028         | 1.39%           | 0.209%        |
| 27        | 18.265      | 2576          | 2583        | 2594         | rBV5     | 56962          | 151345        | 5.84%           | 0.876%        |
| 28        | 18.371      | 2597          | 2601        | 2605         | rBV2     | 41195          | 56778         | 2.19%           | 0.329%        |
| 29        | 18.517      | 2620          | 2626        | 2639         | rBV      | 479965         | 768908        | 29.68%          | 4.450%        |
| 30        | 18.658      | 2647          | 2650        | 2657         | rVB3     | 38830          | 61910         | 2.39%           | 0.358%        |
| 31        | 18.729      | 2657          | 2662        | 2671         | rVV      | 70105          | 127638        | 4.93%           | 0.739%        |
| 32        | 18.805      | 2671          | 2675        | 2681         | rVB2     | 48537          | 65749         | 2.54%           | 0.381%        |
| 33        | 18.987      | 2703          | 2706        | 2711         | rVB6     | 21294          | 28937         | 1.12%           | 0.167%        |
| 34        | 19.105      | 2721          | 2726        | 2734         | rBV      | 102300         | 172135        | 6.64%           | 0.996%        |

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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

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-BG030419.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |       |         |         |         |         |
|----|--------|------|------|------|-------|---------|---------|---------|---------|
| 35 | 19.322 | 2760 | 2763 | 2771 | rVB3  | 33173   | 51590   | 1.99%   | 0.299%  |
| 36 | 19.634 | 2812 | 2816 | 2823 | rVB6  | 20377   | 33447   | 1.29%   | 0.194%  |
| 37 | 20.109 | 2891 | 2897 | 2903 | rBV   | 1881388 | 2590973 | 100.00% | 14.997% |
| 38 | 20.650 | 2985 | 2989 | 2997 | rVB10 | 12334   | 27769   | 1.07%   | 0.161%  |
| 39 | 20.879 | 3024 | 3028 | 3033 | rBV7  | 26764   | 43244   | 1.67%   | 0.250%  |
| 40 | 21.402 | 3112 | 3117 | 3123 | rBV10 | 24997   | 55161   | 2.13%   | 0.319%  |
| 41 | 21.807 | 3180 | 3186 | 3193 | rVB2  | 511409  | 855170  | 33.01%  | 4.950%  |
| 42 | 22.036 | 3221 | 3225 | 3230 | rVB7  | 17278   | 27783   | 1.07%   | 0.161%  |
| 43 | 22.571 | 3312 | 3316 | 3323 | rVB3  | 21216   | 32998   | 1.27%   | 0.191%  |
| 44 | 22.759 | 3342 | 3348 | 3356 | rBV2  | 49328   | 102969  | 3.97%   | 0.596%  |
| 45 | 23.288 | 3433 | 3438 | 3444 | rVB3  | 31823   | 54253   | 2.09%   | 0.314%  |
| 46 | 24.122 | 3573 | 3580 | 3588 | rVB3  | 40919   | 90510   | 3.49%   | 0.524%  |
| 47 | 25.114 | 3740 | 3749 | 3750 | rBV4  | 34946   | 76797   | 2.96%   | 0.445%  |
| 48 | 25.173 | 3750 | 3759 | 3771 | rVB2  | 289698  | 867430  | 33.48%  | 5.021%  |
| 49 | 26.283 | 3940 | 3948 | 3957 | rVB3  | 26533   | 83011   | 3.20%   | 0.480%  |
| 50 | 27.693 | 4180 | 4188 | 4190 | rBV8  | 13419   | 30749   | 1.19%   | 0.178%  |

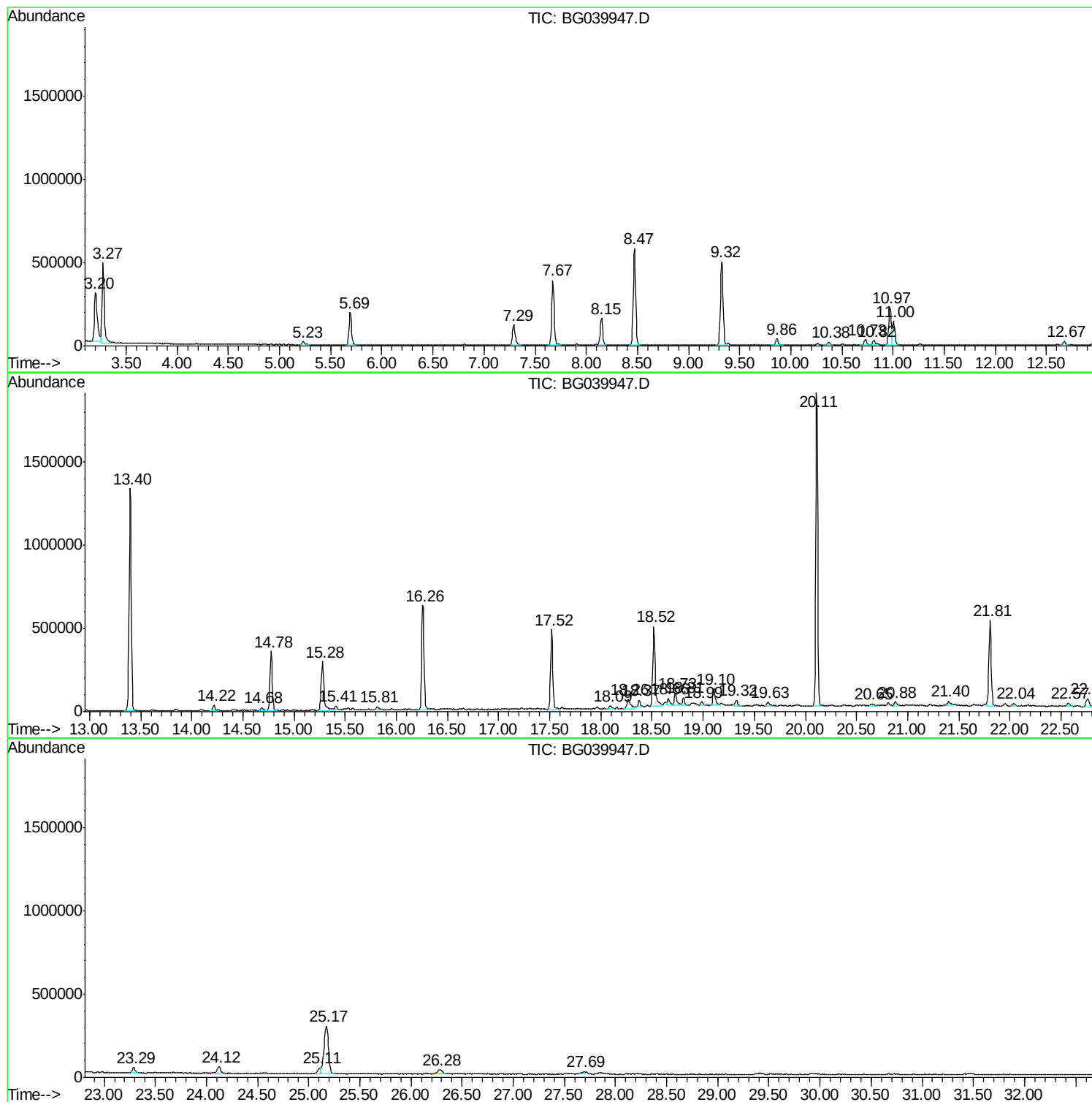
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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
Data File : BG039947.D  
Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

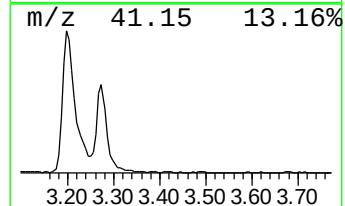
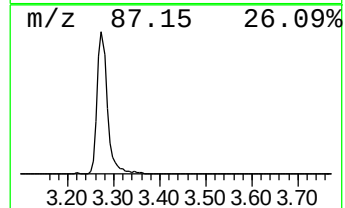
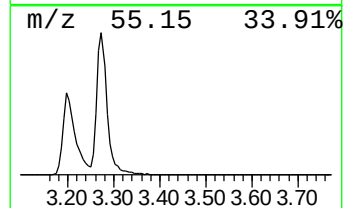
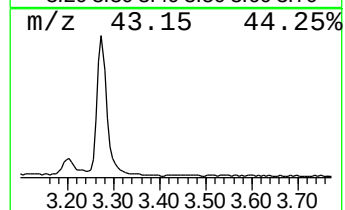
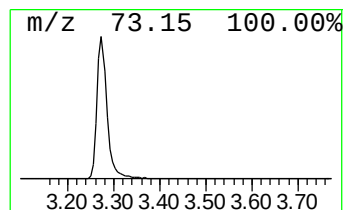
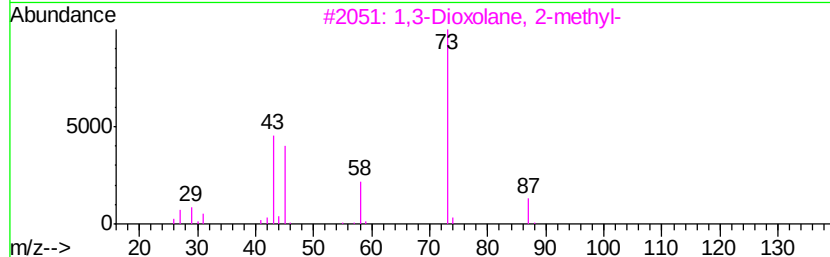
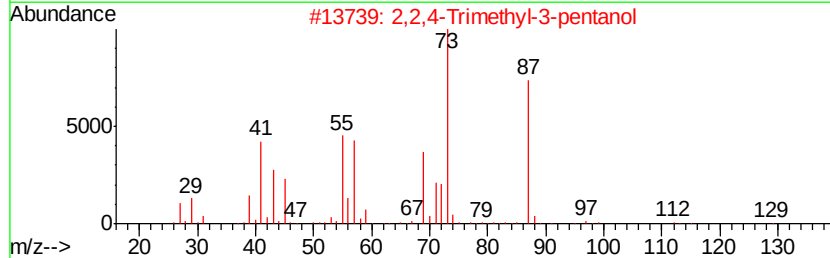
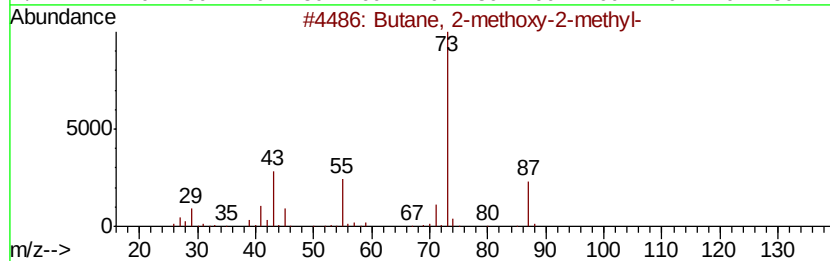
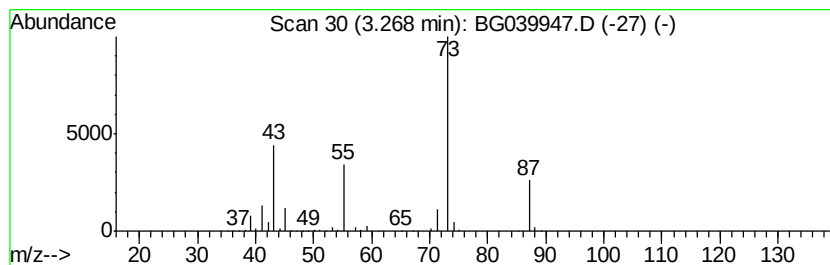
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 2

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 3.27 | 52.14 ng | 723621 | 1,4-Dichlorobenzene-d4 | 8.15 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 39   |
| 3    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 4    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 12   |
| 5    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 12   |



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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

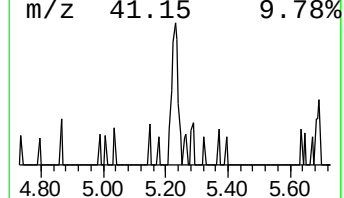
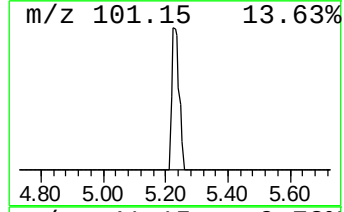
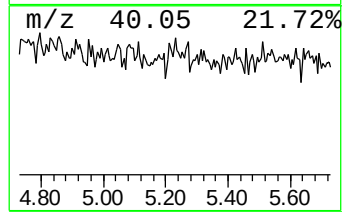
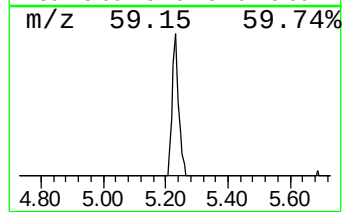
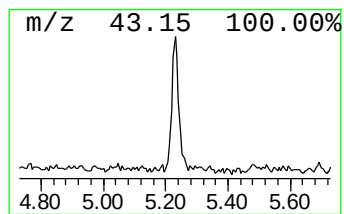
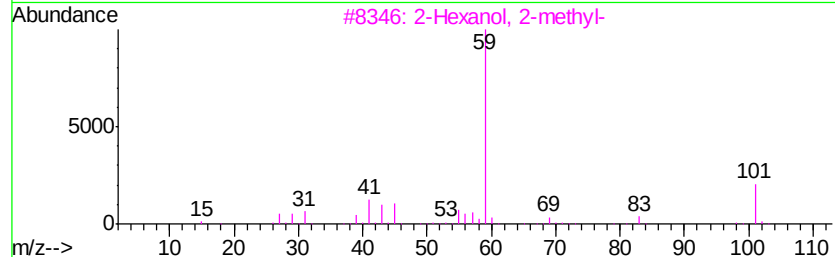
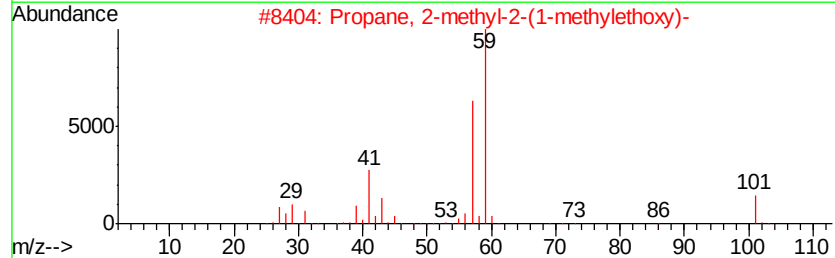
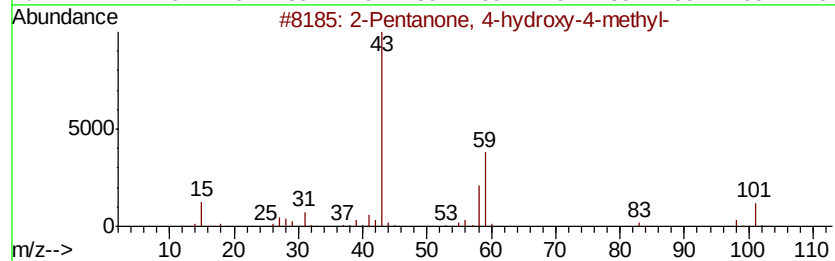
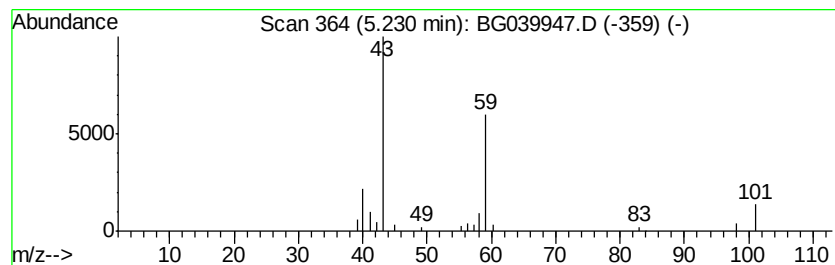
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 14

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.23 | 2.27 ng | 31445 | 1,4-Dichlorobenzene-d4 | 8.15 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 50   |
| 2    |    | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O  | 017348-59-3 | 42   |
| 3    |    | 2-Hexanol, 2-methyl-                | 116 | C7H16O  | 000625-23-0 | 38   |
| 4    |    | 3-Octanol                           | 130 | C8H18O  | 000589-98-0 | 36   |
| 5    |    | 2-Pentanol, 2,4-dimethyl-           | 116 | C7H16O  | 000625-06-9 | 33   |



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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

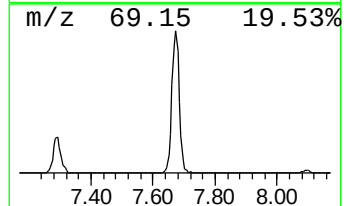
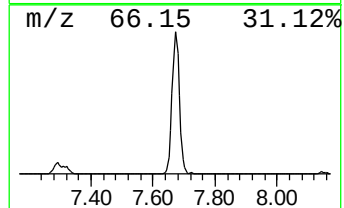
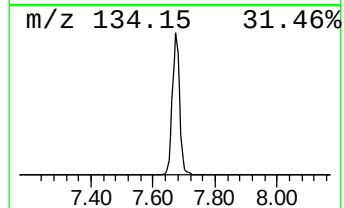
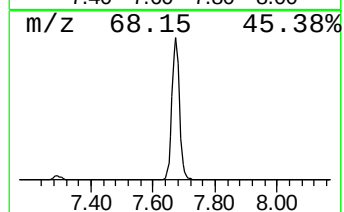
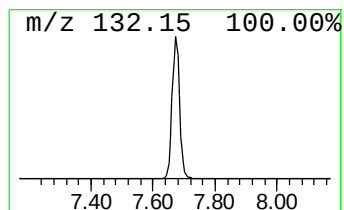
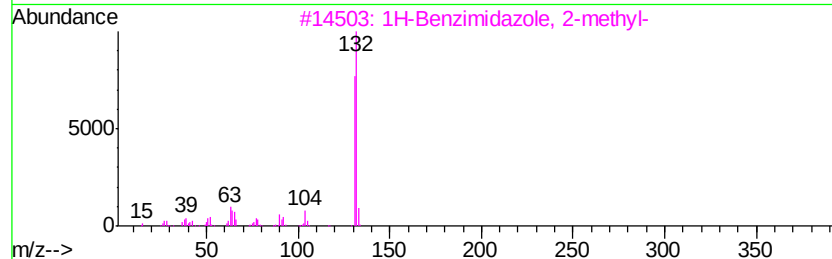
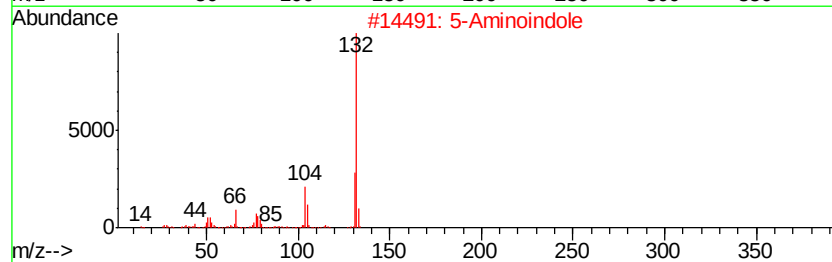
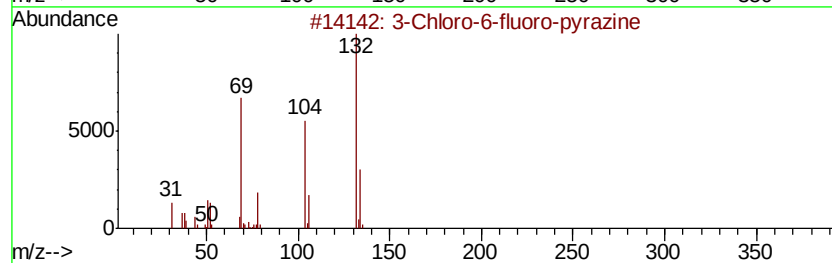
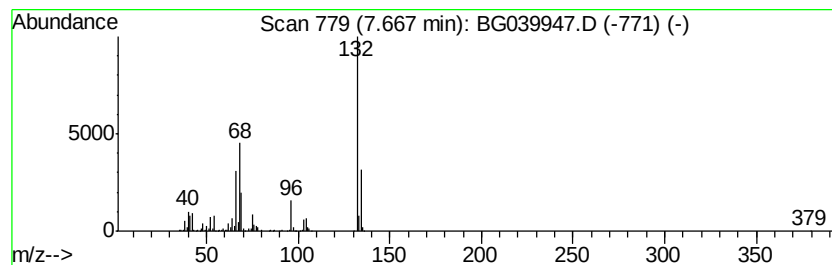
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 unknown7.67 Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 7.67 | 48.51 ng | 673236 | 1,4-Dichlorobenzene-d4 | 8.15 |

| Hit# | of                                   | 5 | Tentative ID | MW  | MolForm   | CAS#         | Qual |
|------|--------------------------------------|---|--------------|-----|-----------|--------------|------|
| 1    | 3-Chloro-6-fluoro-pyrazine           |   |              | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    | 5-Aminoindole                        |   |              | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    | 1H-Benzimidazole, 2-methyl-          |   |              | 132 | C8H8N2    | 000615-15-6  | 12   |
| 4    | 5-Fluoro-2-chloropyrimidine          |   |              | 132 | C4H2ClFN2 | 062802-42-0  | 12   |
| 5    | N-(-3,4-Methylenedioxyphenyl)isop... |   |              | 267 | C17H17NO2 | 1000378-96-6 | 10   |



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ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

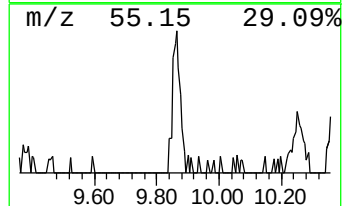
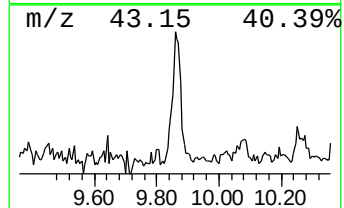
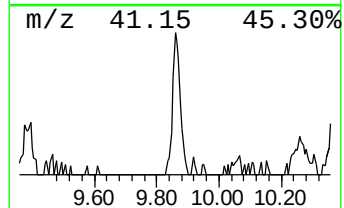
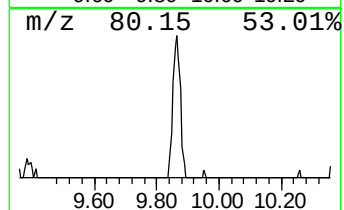
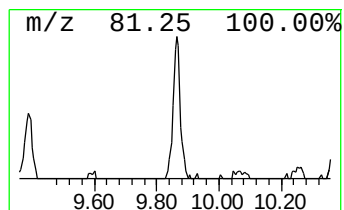
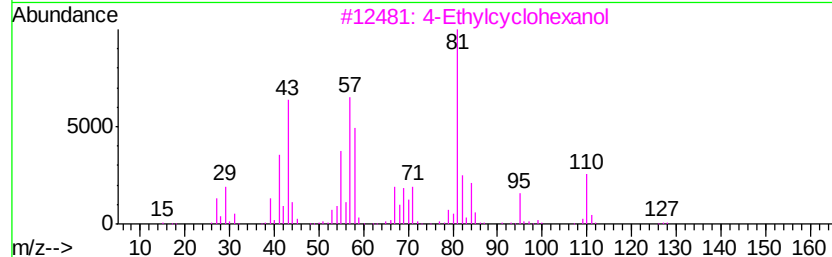
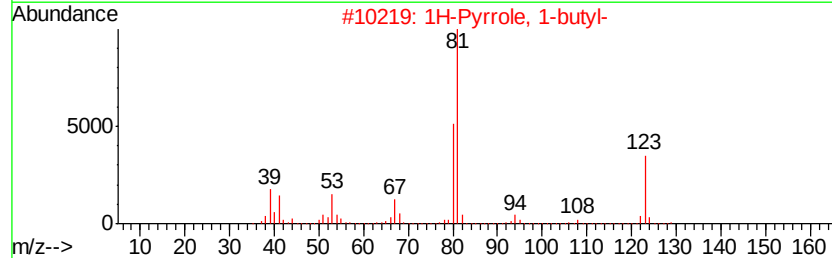
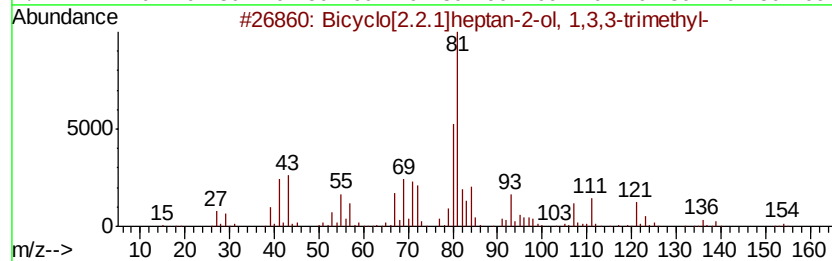
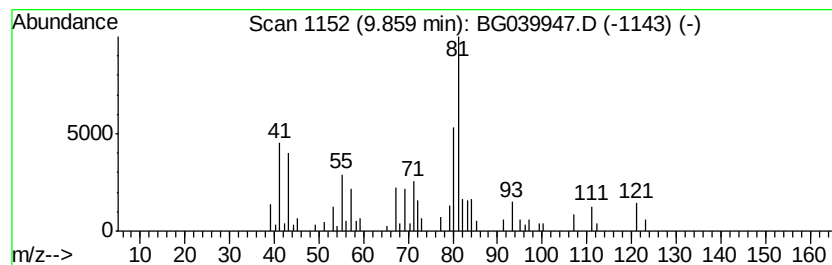
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Bicyclo[2.2.1]heptan-2-ol, ... Concentration Rank 10

| R.T. | EstConc | Area  | Relative to ISTD | R.T.  |
|------|---------|-------|------------------|-------|
| 9.86 | 3.12 ng | 68146 | Naphthalene-d8   | 10.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[2.2.1]heptan-2-ol, 1,3,3... | 154 | C10H18O | 001632-73-1 | 72   |
| 2    |    | 1H-Pyrrole, 1-butyl-                | 123 | C8H13N  | 000589-33-3 | 43   |
| 3    |    | 4-Ethylcyclohexanol                 | 128 | C8H16O  | 004534-74-1 | 40   |
| 4    |    | Cyclohexanol, 4-(1-methylethyl)-    | 142 | C9H18O  | 004621-04-9 | 38   |
| 5    |    | Fenchol, exo-                       | 154 | C10H18O | 022627-95-8 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
Data File : BG039947.D  
Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

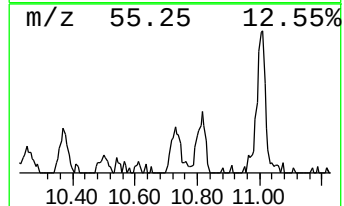
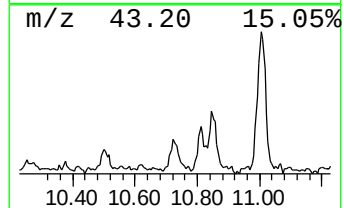
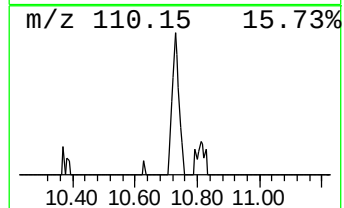
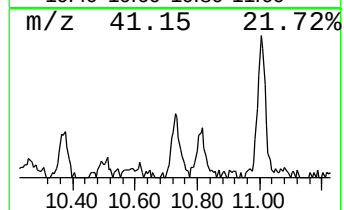
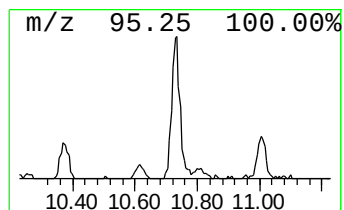
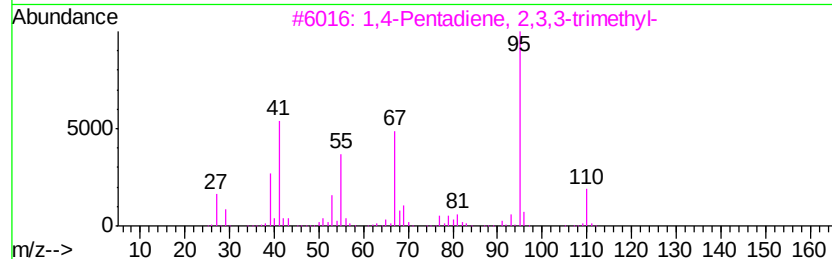
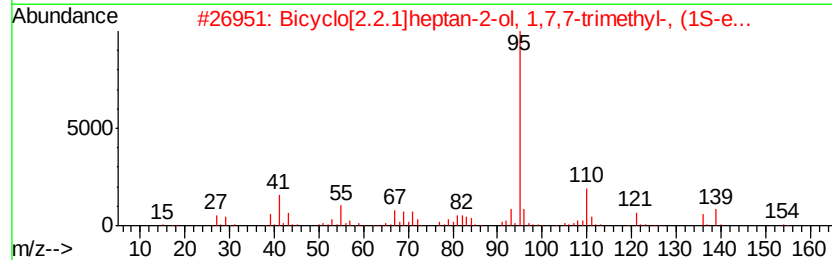
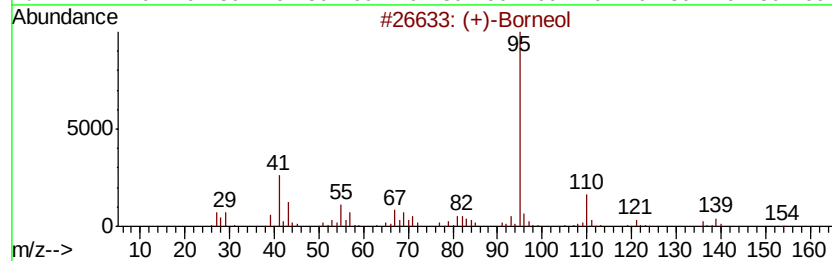
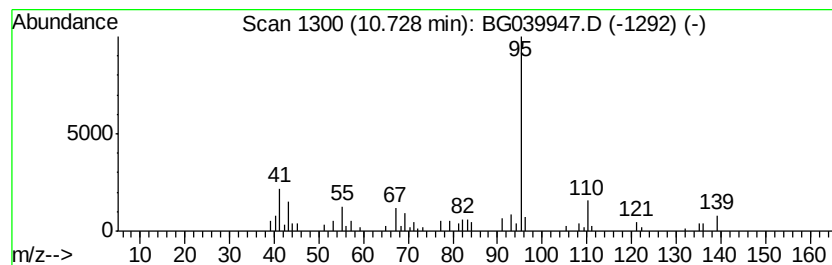
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 (+)-Borneol Concentration Rank 11

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 10.73 | 3.04 ng | 66363 | Napthalene-d8    | 10.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | (+)-Borneol                         | 154 | C10H18O | 1000150-76-3 | 72   |
| 2    |    | Bicyclo[2.2.1]heptan-2-ol, 1,7,7... | 154 | C10H18O | 000464-45-9  | 64   |
| 3    |    | 1,4-Pentadiene, 2,3,3-trimethyl-    | 110 | C8H14   | 000756-02-5  | 58   |
| 4    |    | Furan, 2-ethyl-5-methyl-            | 110 | C7H10O  | 001703-52-2  | 58   |
| 5    |    | 1,3-Dimethyl-1-cyclohexene          | 110 | C8H14   | 002808-76-6  | 58   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
Data File : BG039947.D  
Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

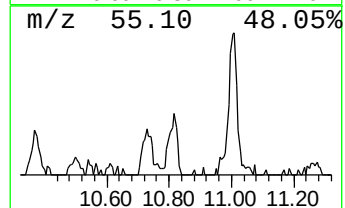
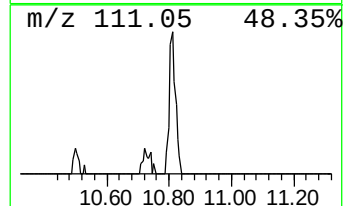
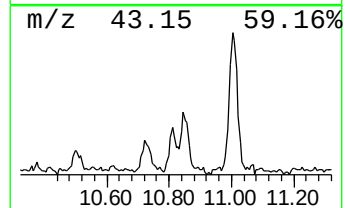
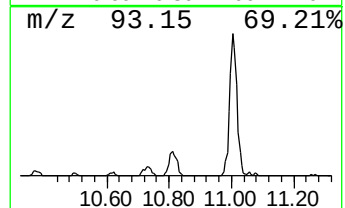
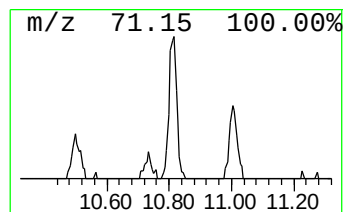
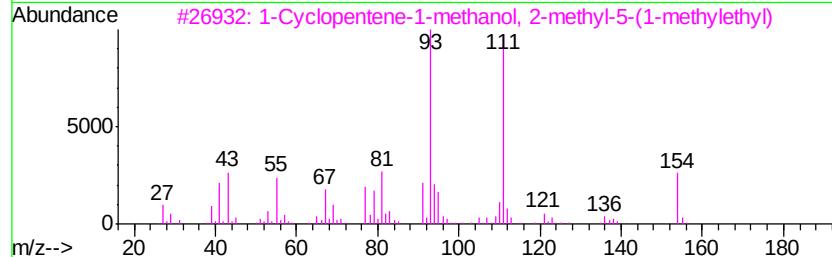
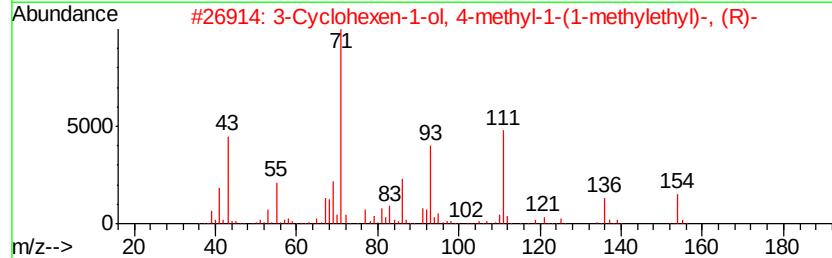
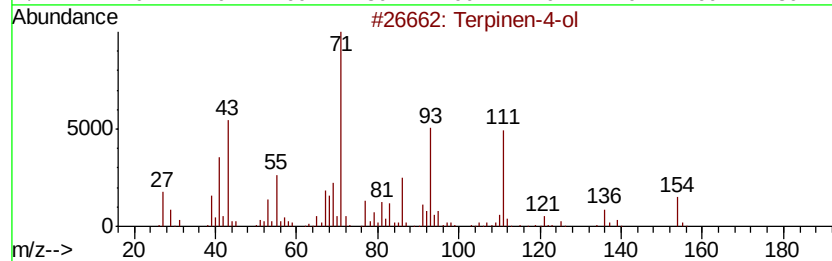
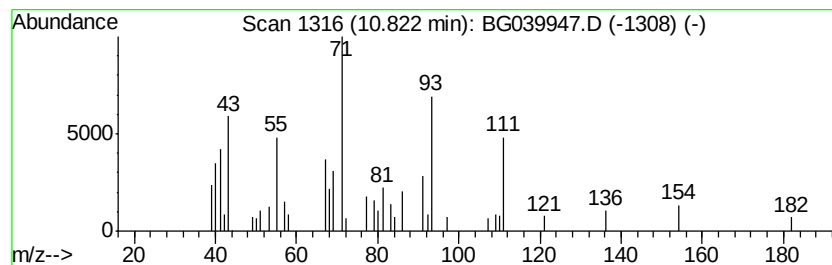
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TIC Integration Parameters: LSCINT.P

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Peak Number 8 Terpinen-4-ol Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 10.82 | 2.34 ng | 51050 | Naphthalene-d8   | 10.97 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Terpinen-4-ol                       | 154 | C10H18O | 000562-74-3 | 95   |
| 2    |    | 3-Cyclohexen-1-ol, 4-methyl-1-(1... | 154 | C10H18O | 020126-76-5 | 68   |
| 3    |    | 1-Cyclopentene-1-methanol, 2-met... | 154 | C10H18O | 080113-82-2 | 38   |
| 4    |    | 2-Buten-1-ol, 3-methyl-             | 86  | C5H10O  | 000556-82-1 | 30   |
| 5    |    | 2-Octen-4-ol, (E)-                  | 128 | C8H16O  | 020125-81-9 | 27   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
Data File : BG039947.D  
Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

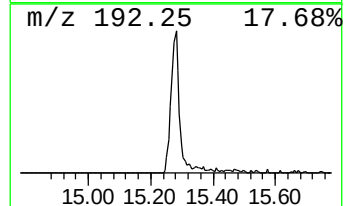
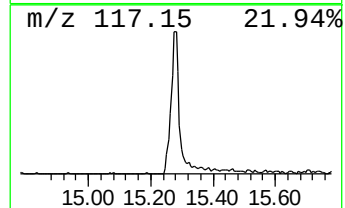
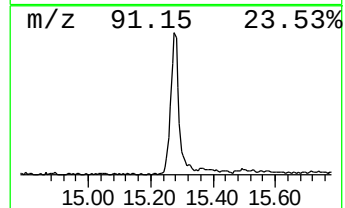
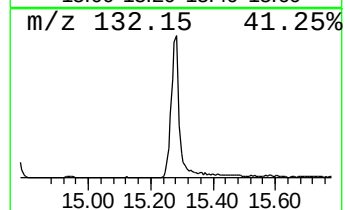
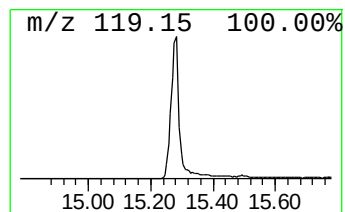
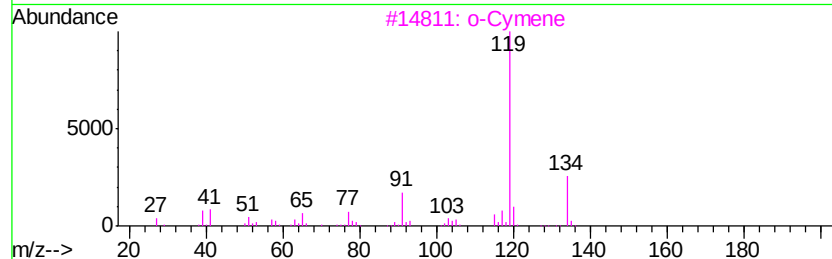
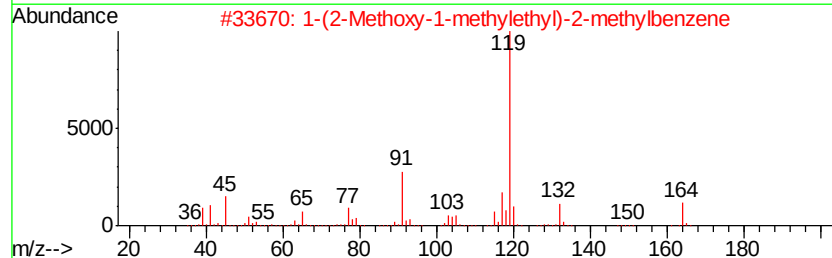
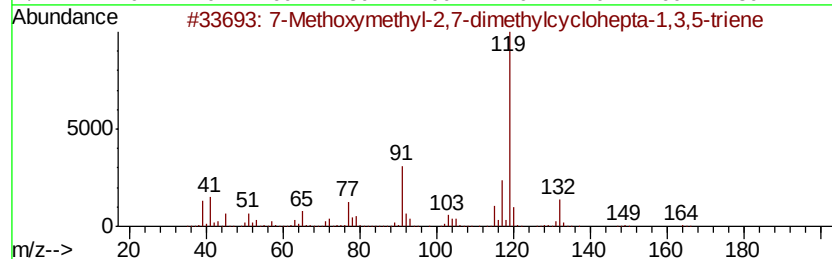
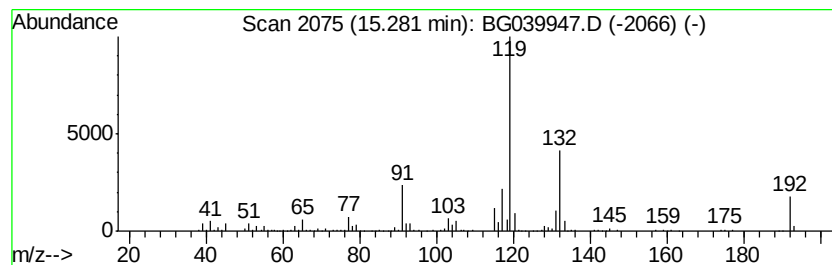
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 7-Methoxymethyl-2,7-dimethy... Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.28 | 18.51 ng | 548357 | Acenaphthene-d10 | 14.78 |

| Hit# | of | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 7-Methoxymethyl-2,7-dimethylcyclo... | 164 | C11H16O   | 073992-48-0  | 78   |
| 2    |    | 1-(2-Methoxy-1-methylethyl)-2-me...  | 164 | C11H16O   | 1000210-02-1 | 47   |
| 3    |    | o-Cymene                             | 134 | C10H14    | 000527-84-4  | 43   |
| 4    |    | 4-Oxo-4-(para-tolyl)-butyric acid    | 192 | C11H12O3  | 004619-20-9  | 38   |
| 5    |    | Ethyl 1,3-dithiane-2-carboxylate     | 192 | C7H12O2S2 | 020462-00-4  | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
Data File : BG039947.D  
Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

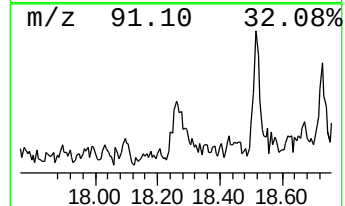
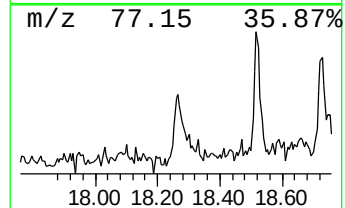
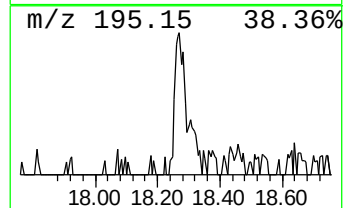
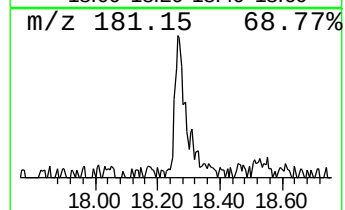
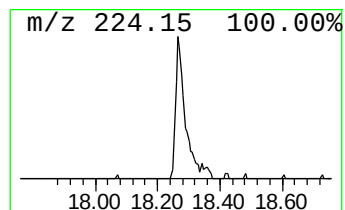
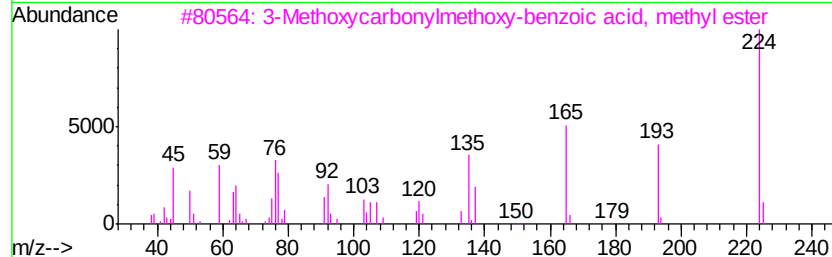
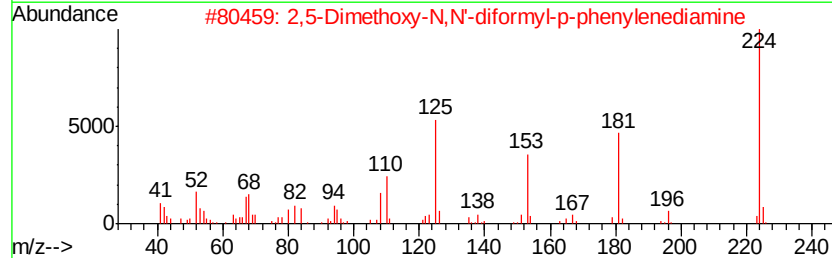
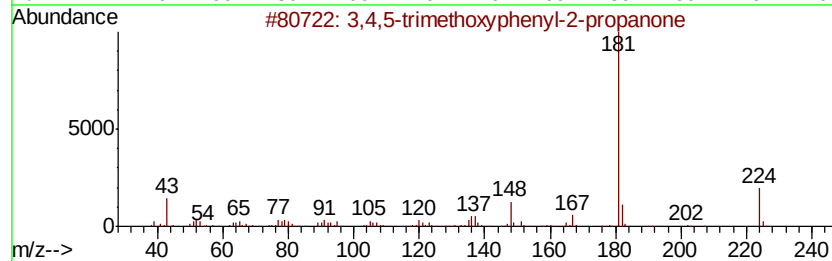
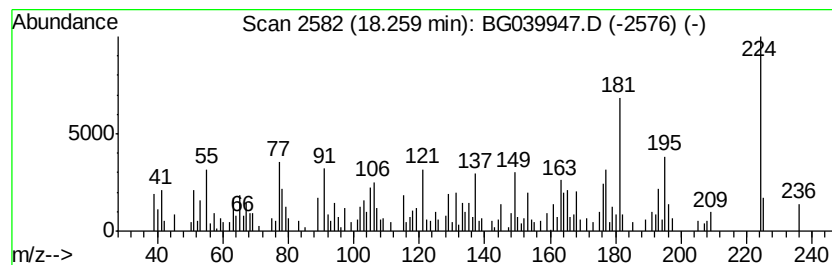
Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.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 3,4,5-trimethoxyphenyl-2-pr... Concentration Rank 8

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 18.26     | 3.83 ng                             | 151345 | Phenanthrene-d10 | 17.52        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 3,4,5-trimethoxyphenyl-2-propanone  | 224    | C12H16O4         | 1000378-97-6 | 53   |
| 2         | 2,5-Dimethoxy-N,N'-diformyl-p-ph... | 224    | C10H12N2O4       | 1000250-95-2 | 52   |
| 3         | 3-Methoxycarbonylmethoxy-benzoic... | 224    | C11H12O5         | 1000317-51-5 | 50   |
| 4         | Benzenebutyric acid, 2,3-dimethoxy- | 224    | C12H16O4         | 064400-76-6  | 49   |
| 5         | 1,1-Dimethyl-2-(diphenylmethylen... | 224    | C15H16N2         | 024398-55-8  | 46   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
Data File : BG039947.D  
Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

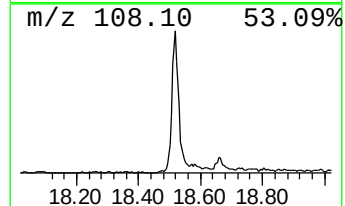
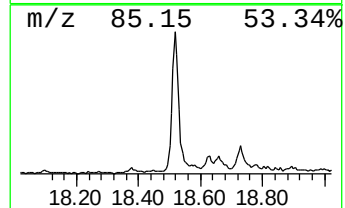
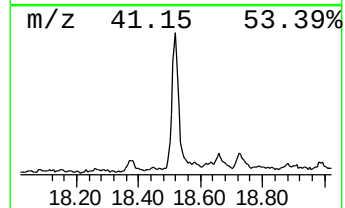
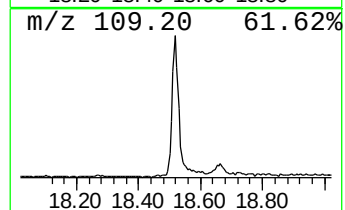
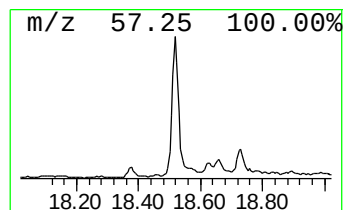
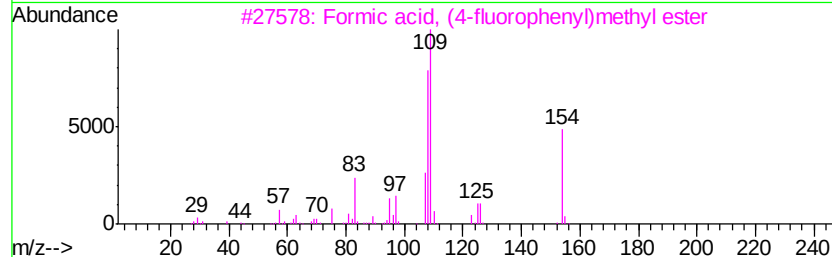
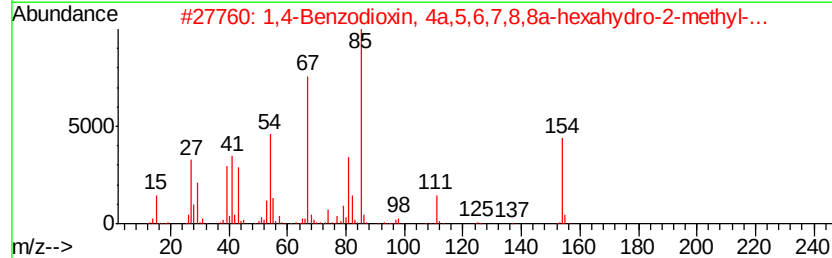
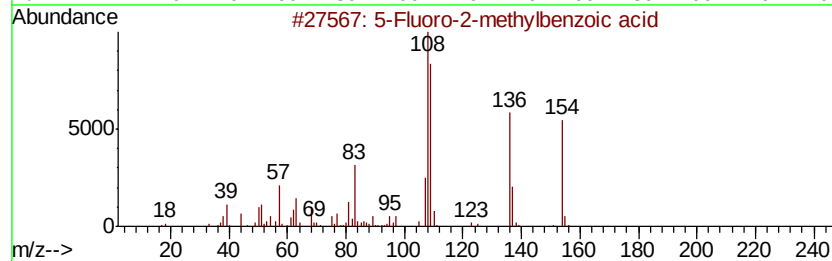
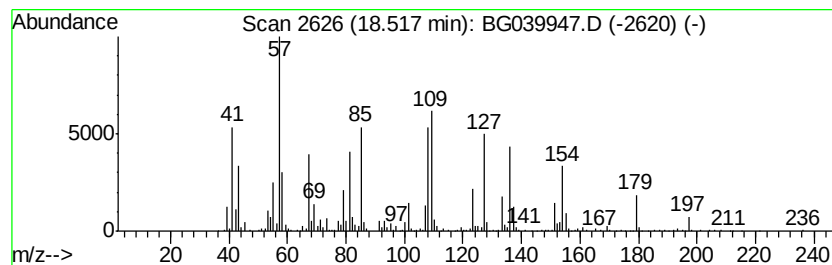
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 unknown18.52 Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 18.52 | 19.47 ng | 768908 | Phenanthrene-d10 | 17.52 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | 5-Fluoro-2-methylbenzoic acid       | 154 | C8H7FO2 | 033184-16-6  | 46   |
| 2    |    | 1,4-Benzodioxin, 4a,5,6,7,8,8a-h... | 154 | C9H14O2 | 007196-96-5  | 25   |
| 3    |    | Formic acid, (4-fluorophenyl)met... | 154 | C8H7FO2 | 1000368-72-9 | 22   |
| 4    |    | 1H-Pyrrole, 4-ethyl-2,3-dimethyl-   | 123 | C8H13N  | 000491-18-9  | 22   |
| 5    |    | 2,5-Furandione, dihydro-3-(2-met... | 154 | C8H10O3 | 018908-20-8  | 22   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
Data File : BG039947.D  
Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

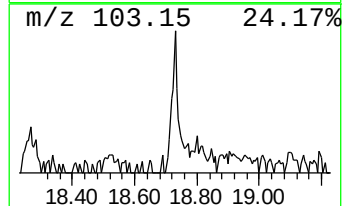
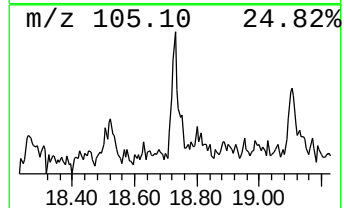
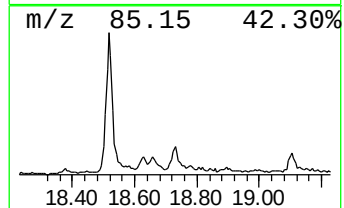
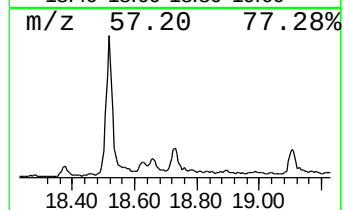
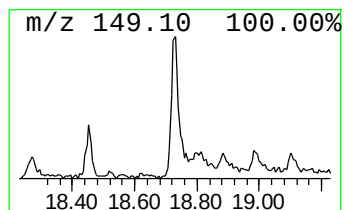
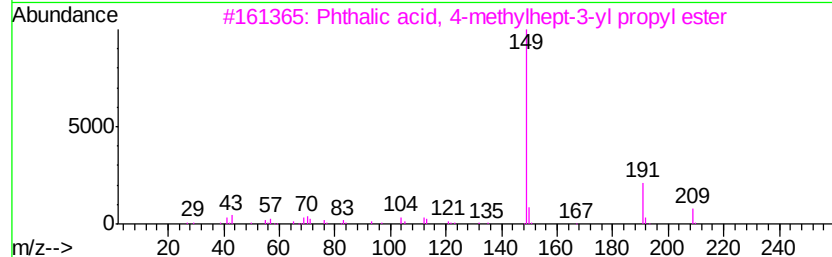
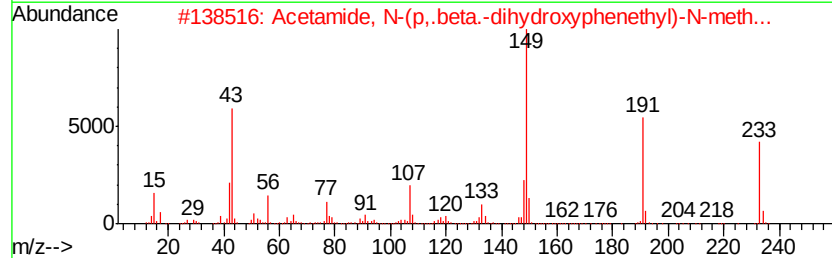
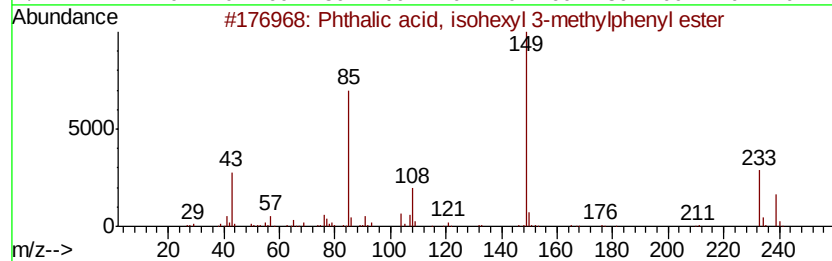
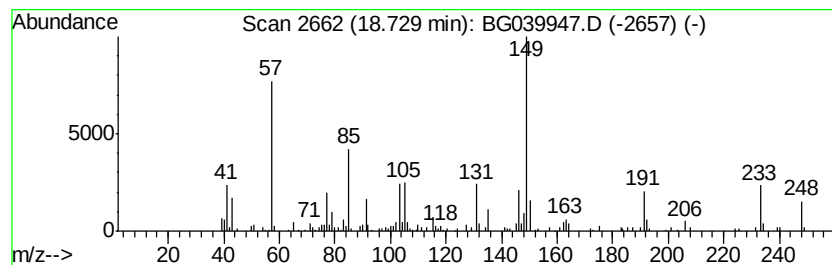
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 unknown18.73 Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.73 | 3.23 ng | 127638 | Phenanthrene-d10 | 17.52 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Phthalic acid, isohexyl 3-methyl... | 340 | C21H24O4  | 1000315-37-1 | 47   |
| 2    |    | Acetamide, N-(p,.beta.-dihydroxy... | 293 | C15H19NO5 | 014383-57-4  | 35   |
| 3    |    | Phthalic acid, 4-methylhept-3-yl... | 320 | C19H28O4  | 1000377-93-7 | 27   |
| 4    |    | Phthalic acid, hexyl phenyl ester   | 326 | C20H22O4  | 1000314-87-2 | 25   |
| 5    |    | Phthalic acid, 2-cyclohexylethyl... | 332 | C20H28O4  | 1000309-06-9 | 22   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
Data File : BG039947.D  
Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

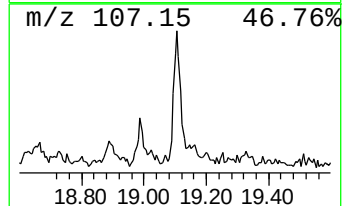
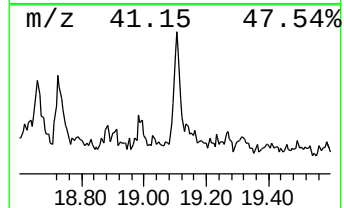
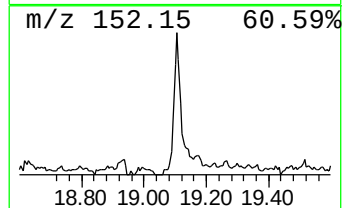
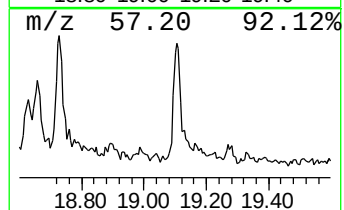
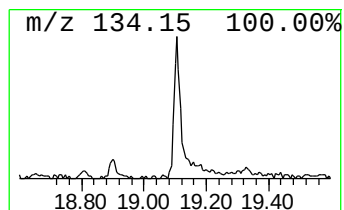
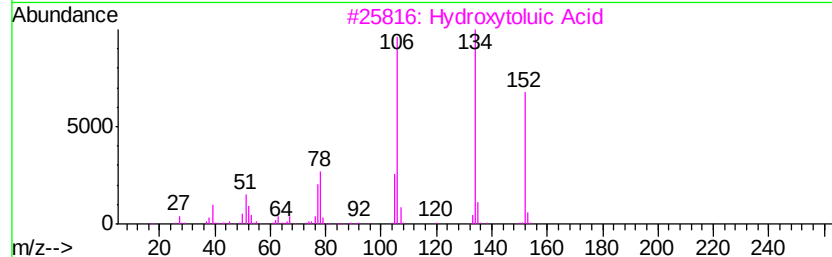
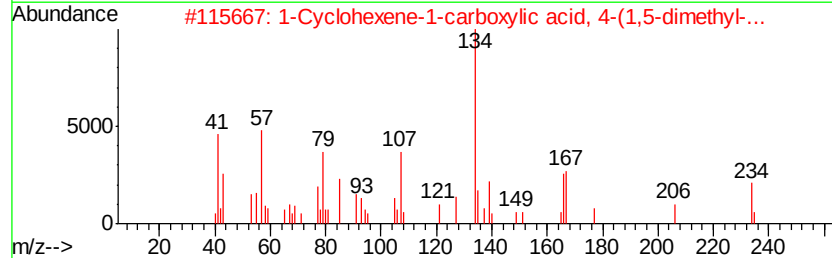
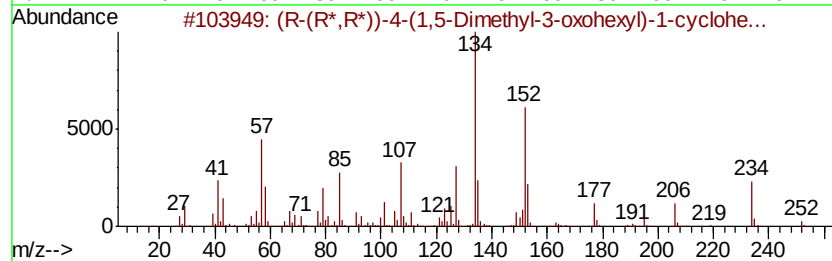
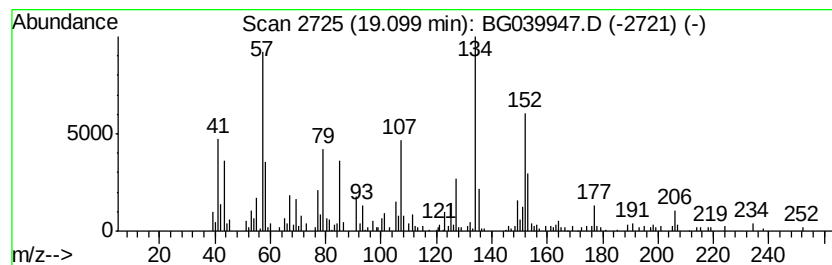
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 (R-(R\*,R\*))-4-(1,5-Dimethyl... Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.10 | 4.36 ng | 172135 | Phenanthrene-d10 | 17.52 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------------------|-----|----------|-------------|------|
| 1       |   | (R-(R*,R*))-4-(1,5-Dimethyl-3-ox... | 252 | C15H24O3 | 006753-22-6 | 74   |
| 2       |   | 1-Cyclohexene-1-carboxylic acid,... | 266 | C16H26O3 | 017904-27-7 | 53   |
| 3       |   | Hydroxytoluic Acid                  | 152 | C8H8O3   | 000083-40-9 | 35   |
| 4       |   | 1H-Purine, 6-methyl-                | 134 | C6H6N4   | 002004-03-7 | 27   |
| 5       |   | 2-Benzoxazamine                     | 134 | C7H6N2O  | 004570-41-6 | 27   |



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Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

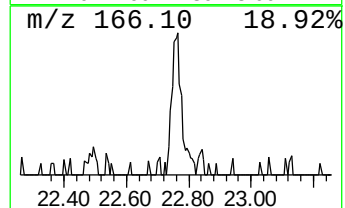
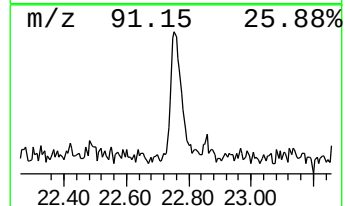
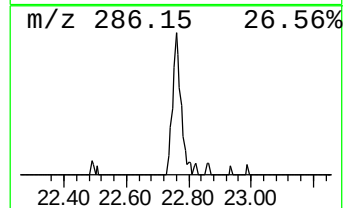
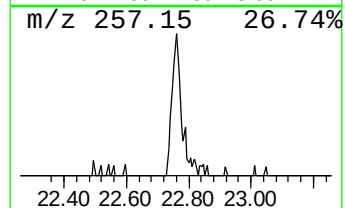
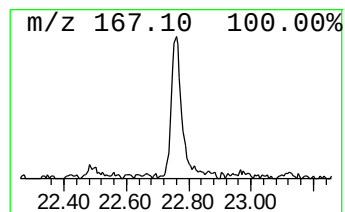
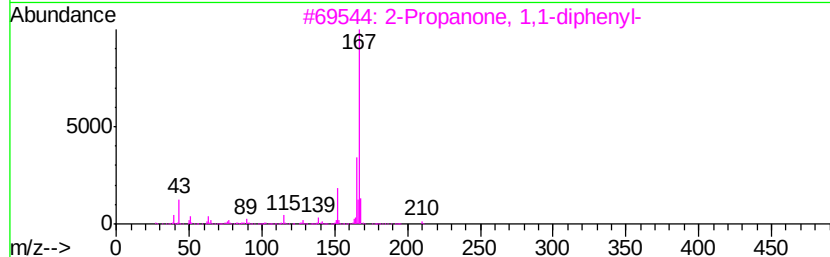
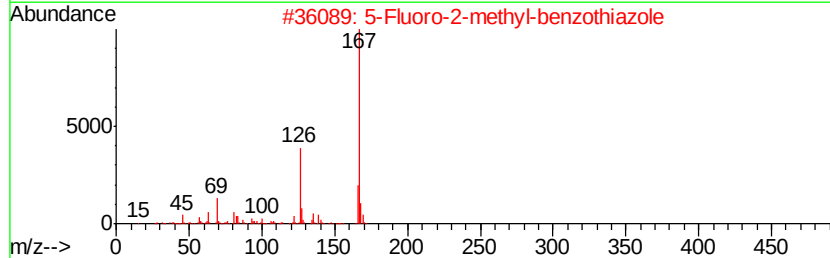
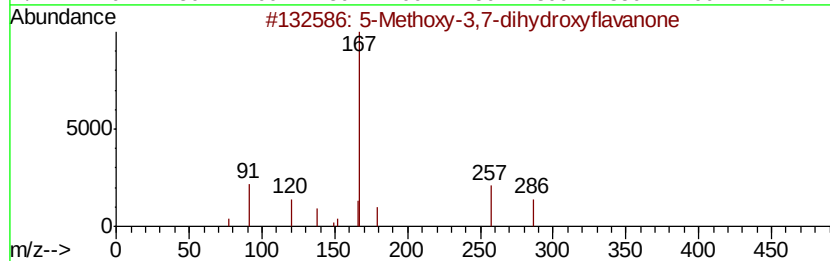
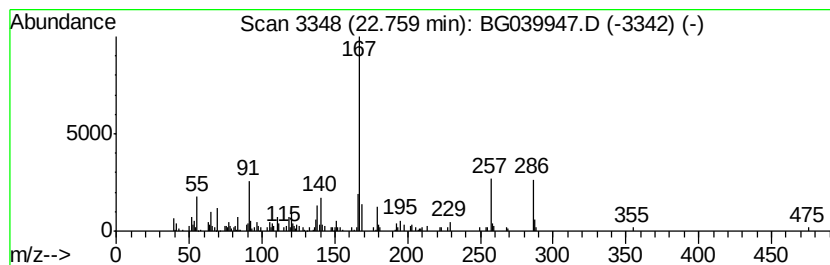
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 5-Methoxy-3,7-dihydroxyflav... Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 22.76 | 2.41 ng | 102969 | Chrysene-d12     | 21.81 |

| Hit# | of | Tentative ID                             | MW  | MolForm      | CAS#         | Qual |
|------|----|------------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | 5-Methoxy-3,7-dihydroxyflavanone         | 286 | C16H14O5     | 087620-04-0  | 50   |
| 2    |    | 5-Fluoro-2-methyl-benzothiazole          | 167 | C8H6FNs      | 000399-75-7  | 49   |
| 3    |    | 2-Propanone, 1,1-diphenyl-               | 210 | C15H14O      | 000781-35-1  | 49   |
| 4    |    | Benzene, 1,1',1''-(1-ethan-yl-2-yl-...)  | 258 | C20H18       | 001520-42-9  | 47   |
| 5    |    | Acetamide, 2,2-diphenyl-N-(4-chloro-...) | 366 | C20H15ClN2O3 | 1000295-48-3 | 47   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG031519\  
Data File : BG039947.D  
Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG030419.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

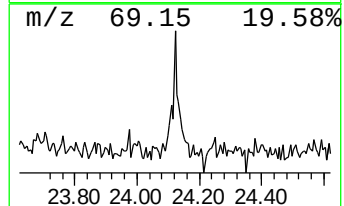
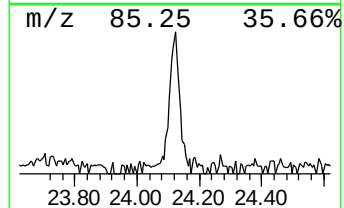
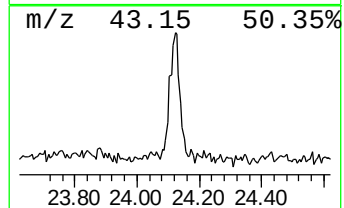
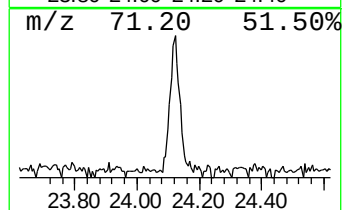
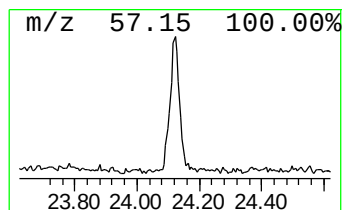
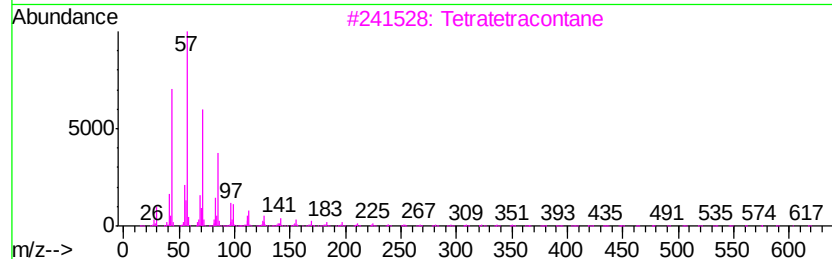
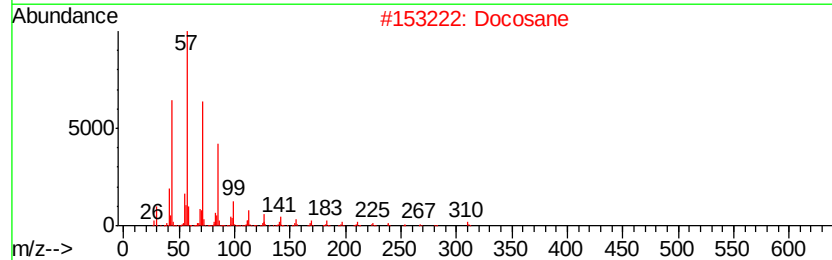
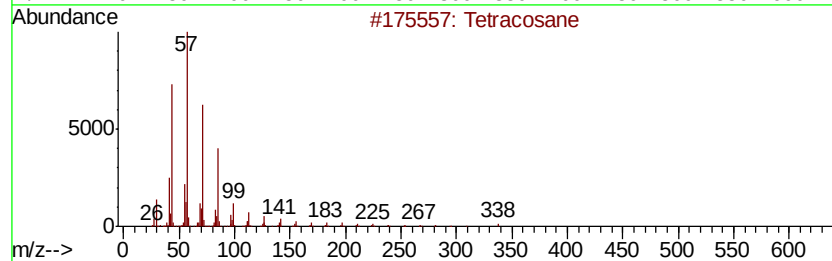
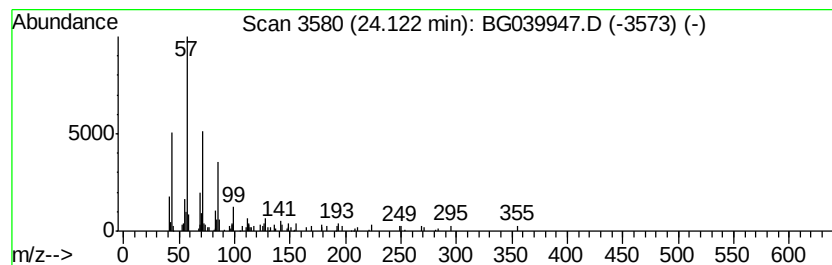
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Tetracosane Concentration Rank 15

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 24.12 | 2.09 ng | 90510 | Perylene-d12     | 25.17 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Tetracosane       | 338 | C24H50  | 000646-31-1 | 83   |
| 2    |    |   | Docosane          | 310 | C22H46  | 000629-97-0 | 83   |
| 3    |    |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 83   |
| 4    |    |   | Hexacosane        | 366 | C26H54  | 000630-01-3 | 83   |
| 5    |    |   | Nonadecane        | 268 | C19H40  | 000629-92-5 | 80   |





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Acq On : 15 Mar 2019 18:49  
Operator : JU/SJ  
Sample : K1909-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
MH-02

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG030419.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 |
| Butane, 2-methoxy...  | 3.27  | 52.1    | ng    | 723621   | 1                     | 8.15  | 277582 | 20.0 |
| 2-Pentanone, 4-hy...  | 5.23  | 2.3     | ng    | 31445    | 1                     | 8.15  | 277582 | 20.0 |
| unknown7.67           | 7.67  | 48.5    | ng    | 673236   | 1                     | 8.15  | 277582 | 20.0 |
| Bicyclo[2.2.1]hep...  | 9.86  | 3.1     | ng    | 68146    | 2                     | 10.97 | 436660 | 20.0 |
| (+)-Borneol           | 10.73 | 3.0     | ng    | 66363    | 2                     | 10.97 | 436660 | 20.0 |
| Terpinen-4-ol         | 10.82 | 2.3     | ng    | 51050    | 2                     | 10.97 | 436660 | 20.0 |
| 7-Methoxymethyl-2...  | 15.28 | 18.5    | ng    | 548357   | 3                     | 14.78 | 592474 | 20.0 |
| 3,4,5-trimethoxyp...  | 18.26 | 3.8     | ng    | 151345   | 4                     | 17.52 | 789770 | 20.0 |
| unknown18.52          | 18.52 | 19.5    | ng    | 768908   | 4                     | 17.52 | 789770 | 20.0 |
| unknown18.73          | 18.73 | 3.2     | ng    | 127638   | 4                     | 17.52 | 789770 | 20.0 |
| (R-(R*,R*)))-4-(1,... | 19.10 | 4.4     | ng    | 172135   | 4                     | 17.52 | 789770 | 20.0 |
| 5-Methoxy-3,7-dih...  | 22.76 | 2.4     | ng    | 102969   | 5                     | 21.81 | 855170 | 20.0 |
| Tetracosane           | 24.12 | 2.1     | ng    | 90510    | 6                     | 25.17 | 867430 | 20.0 |