

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
 Data File : BF136932.D  
 Acq On : 04 Jan 2024 04:12  
 Operator : CG\JU  
 Sample : 05980-01 2X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MR-315-0-2

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\_F\Methods\8270-BF122023.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF136932.D\data.ms

| 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         | 2.369       | 40            | 48          | 49           | rBV2     | 18391          | 43417         | 1.29%           | 0.349%        |
| 2         | 3.434       | 214           | 229         | 230          | rBV      | 15665          | 47218         | 1.41%           | 0.379%        |
| 3         | 5.175       | 507           | 525         | 544          | rBV      | 166540         | 584668        | 17.43%          | 4.696%        |
| 4         | 5.440       | 567           | 570         | 588          | rVB      | 544159         | 546579        | 16.29%          | 4.390%        |
| 5         | 6.157       | 683           | 692         | 698          | rBV      | 28130          | 63093         | 1.88%           | 0.507%        |
| 6         | 6.451       | 735           | 742         | 746          | rVV      | 389112         | 511758        | 15.26%          | 4.110%        |
| 7         | 6.492       | 746           | 749         | 763          | rVB      | 373047         | 469841        | 14.01%          | 3.774%        |
| 8         | 6.651       | 771           | 776         | 779          | rBV4     | 22962          | 38838         | 1.16%           | 0.312%        |
| 9         | 6.787       | 779           | 799         | 802          | rVV2     | 1280343        | 3354591       | 100.00%         | 26.943%       |
| 10        | 6.863       | 808           | 812         | 817          | rVB      | 61325          | 78802         | 2.35%           | 0.633%        |
| 11        | 6.934       | 817           | 824         | 826          | rBV      | 375805         | 630989        | 18.81%          | 5.068%        |
| 12        | 6.987       | 829           | 833         | 836          | rVV2     | 458726         | 637519        | 19.00%          | 5.120%        |
| 13        | 7.016       | 836           | 838         | 845          | rVV      | 143763         | 207963        | 6.20%           | 1.670%        |
| 14        | 7.081       | 846           | 849         | 857          | rVV      | 196062         | 245147        | 7.31%           | 1.969%        |
| 15        | 7.145       | 857           | 860         | 870          | rVB      | 98139          | 132289        | 3.94%           | 1.063%        |
| 16        | 7.222       | 870           | 873         | 876          | rBV      | 59808          | 54531         | 1.63%           | 0.438%        |
| 17        | 7.345       | 891           | 894         | 897          | rBV      | 384481         | 280947        | 8.38%           | 2.257%        |
| 18        | 7.616       | 935           | 940         | 950          | rVB      | 98322          | 142640        | 4.25%           | 1.146%        |
| 19        | 8.063       | 1012          | 1016        | 1019         | rBV      | 395094         | 317881        | 9.48%           | 2.553%        |
| 20        | 9.139       | 1195          | 1199        | 1202         | rBV      | 563177         | 487242        | 14.52%          | 3.913%        |
| 21        | 9.816       | 1311          | 1314        | 1318         | rBV      | 371277         | 313277        | 9.34%           | 2.516%        |
| 22        | 10.616      | 1446          | 1450        | 1459         | rVB      | 331926         | 316747        | 9.44%           | 2.544%        |
| 23        | 11.310      | 1565          | 1568        | 1571         | rBV      | 428430         | 366962        | 10.94%          | 2.947%        |
| 24        | 11.845      | 1654          | 1659        | 1671         | rVV      | 284003         | 374021        | 11.15%          | 3.004%        |
| 25        | 12.404      | 1752          | 1754        | 1761         | rVB3     | 25741          | 39258         | 1.17%           | 0.315%        |
| 26        | 12.557      | 1773          | 1780        | 1788         | rBV3     | 115823         | 324999        | 9.69%           | 2.610%        |
| 27        | 12.633      | 1789          | 1793        | 1800         | rVB      | 276126         | 367252        | 10.95%          | 2.950%        |
| 28        | 12.904      | 1836          | 1839        | 1843         | rBV      | 587981         | 514473        | 15.34%          | 4.132%        |
| 29        | 13.139      | 1876          | 1879        | 1882         | rBV      | 38292          | 34286         | 1.02%           | 0.275%        |
| 30        | 13.480      | 1935          | 1937        | 1940         | rBV      | 41007          | 38186         | 1.14%           | 0.307%        |
| 31        | 13.763      | 1982          | 1985        | 1991         | rBV      | 134121         | 172319        | 5.14%           | 1.384%        |
| 32        | 13.816      | 1992          | 1994        | 1997         | rVV3     | 56818          | 51850         | 1.55%           | 0.416%        |
| 33        | 13.968      | 2017          | 2020        | 2024         | rBV      | 304430         | 298161        | 8.89%           | 2.395%        |
| 34        | 14.133      | 2046          | 2048        | 2053         | rVB      | 60203          | 49225         | 1.47%           | 0.395%        |
| 35        | 14.439      | 2098          | 2100        | 2103         | rBV      | 64963          | 56778         | 1.69%           | 0.456%        |
| 36        | 14.751      | 2151          | 2153        | 2155         | rVB      | 58176          | 44212         | 1.32%           | 0.355%        |

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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

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\_F\Methods\8270-BF122023.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |     |        |        |       |        |
|----|--------|------|------|------|-----|--------|--------|-------|--------|
| 37 | 15.457 | 2270 | 2273 | 2276 | rBV | 167756 | 212560 | 6.34% | 1.707% |
|----|--------|------|------|------|-----|--------|--------|-------|--------|

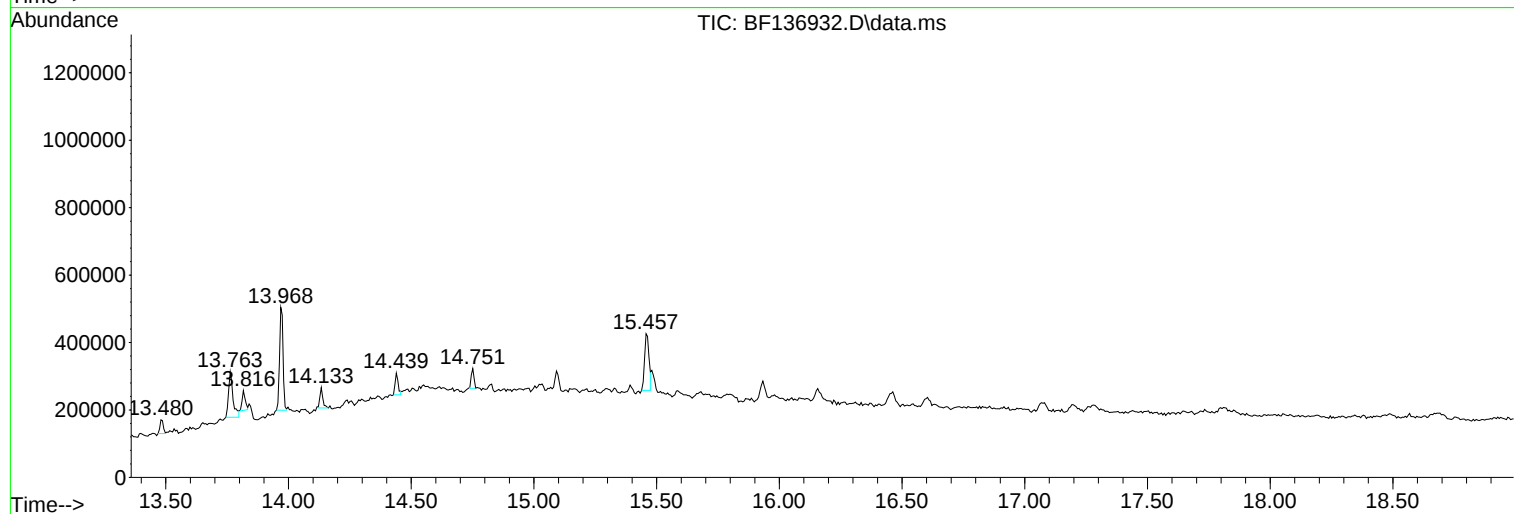
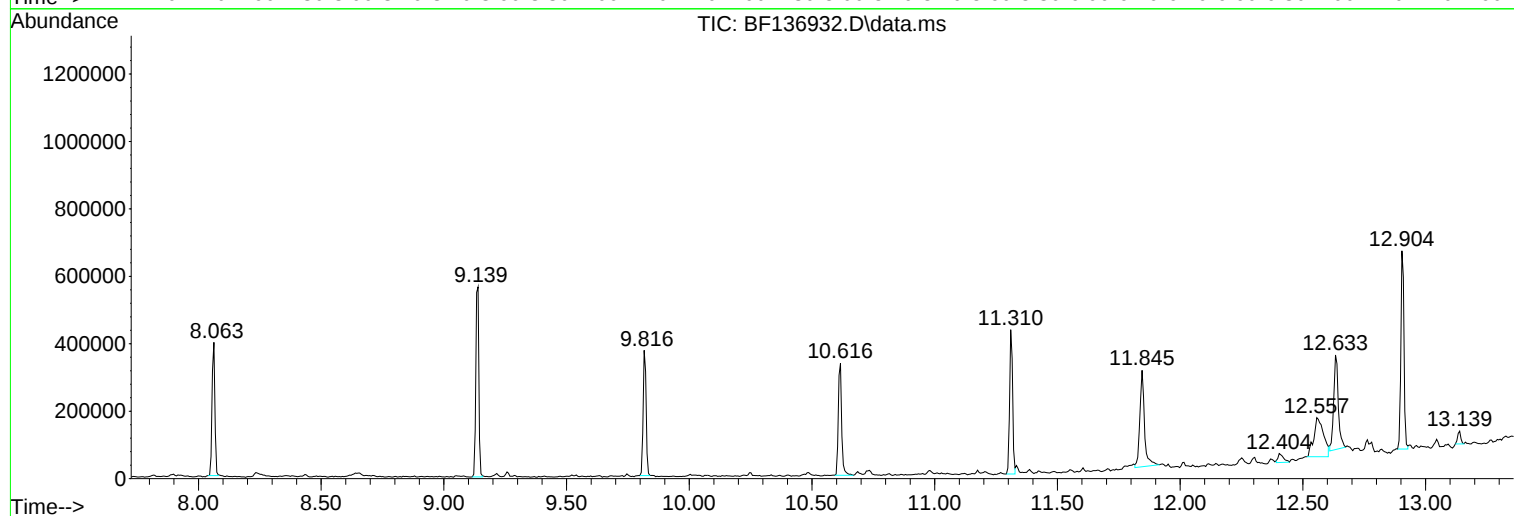
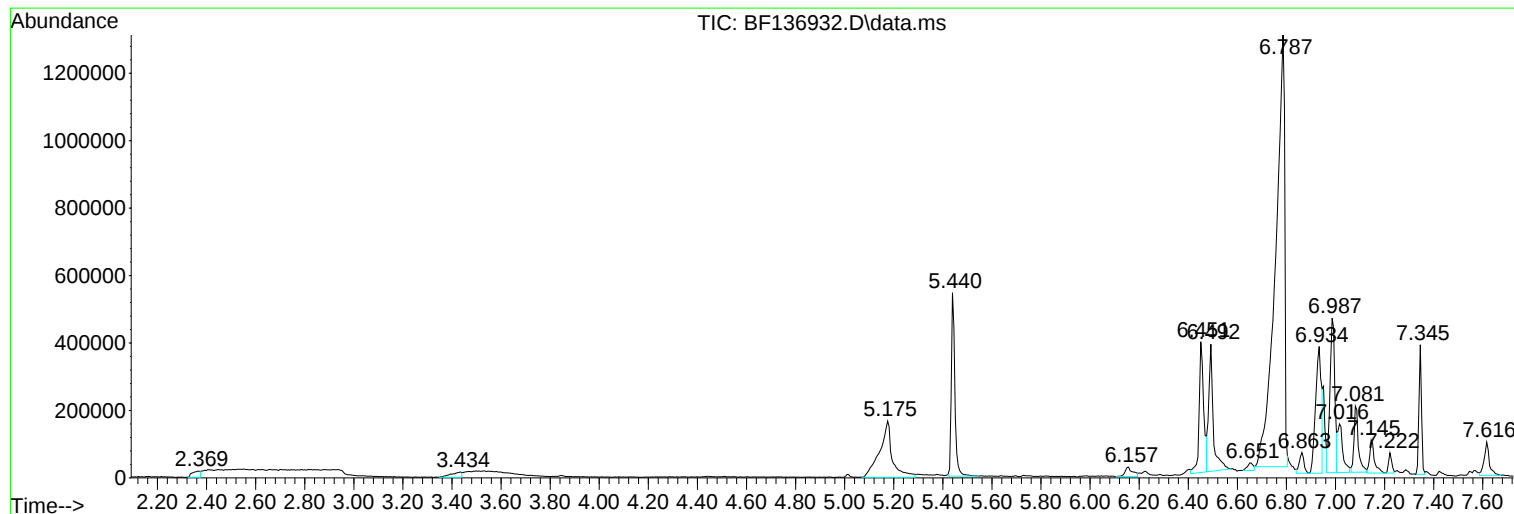
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
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Sample : 05980-01 2X  
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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
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MR-315-0-2

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



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Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

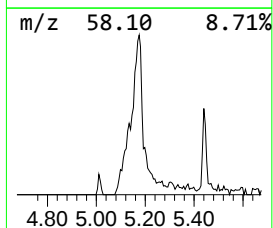
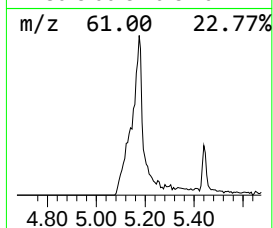
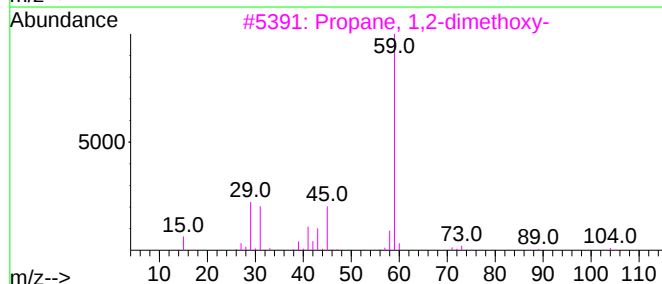
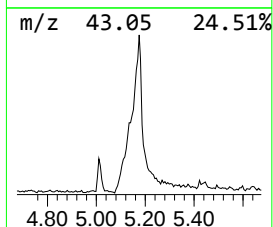
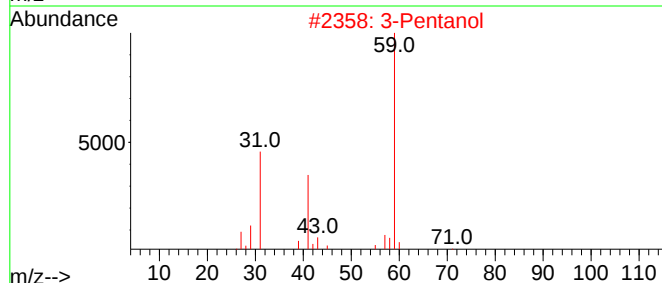
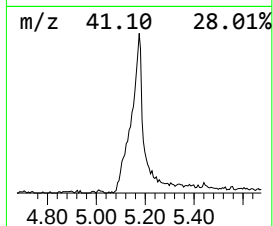
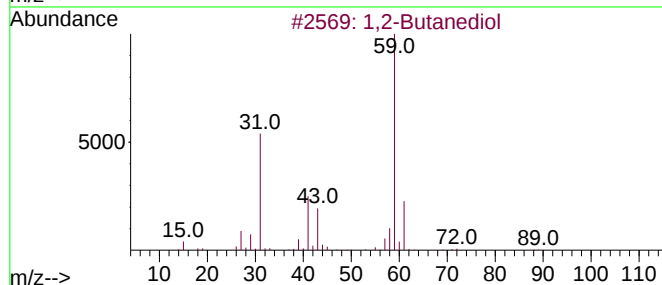
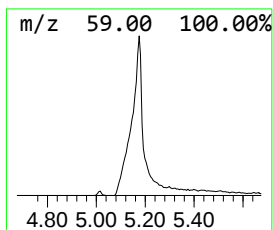
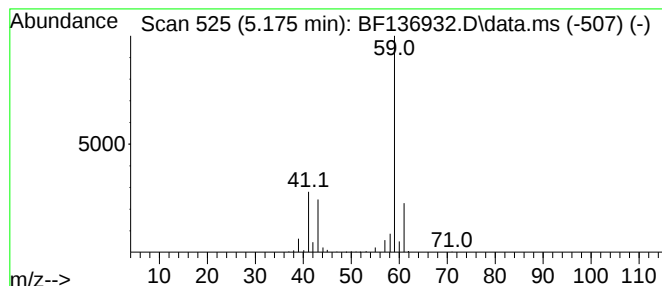
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 1,2-Butanediol Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD       | R.T.  |
|-------|---------|--------|------------------------|-------|
| 5.175 | 3.49 ng | 584668 | 1,4-Dichlorobenzene-d4 | 6.787 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1,2-Butanediol                      | 90  | C4H10O2 | 000584-03-2 | 83   |
| 2    |    |   | 3-Pentanol                          | 88  | C5H12O  | 000584-02-1 | 59   |
| 3    |    |   | Propane, 1,2-dimethoxy-             | 104 | C5H12O2 | 007778-85-0 | 38   |
| 4    |    |   | Butanoic acid, 2-hydroxy-, methy... | 118 | C5H10O3 | 029674-47-3 | 9    |
| 5    |    |   | 2-Propanol, 2-methyl-               | 74  | C4H10O  | 000075-65-0 | 9    |



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MR-315-0-2

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

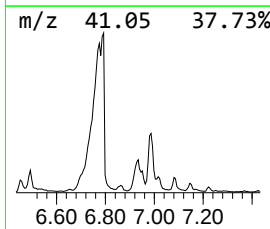
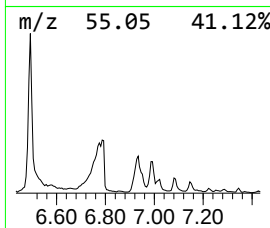
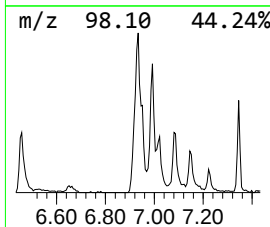
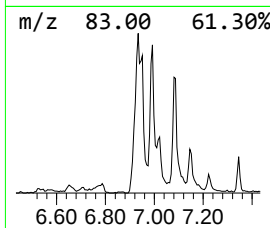
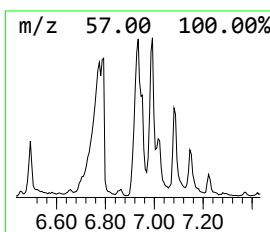
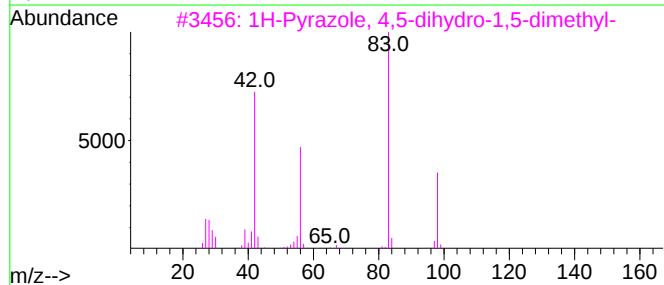
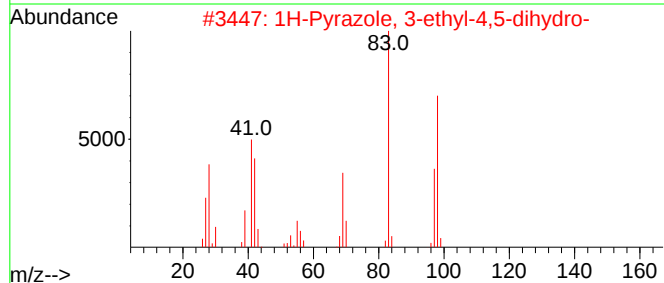
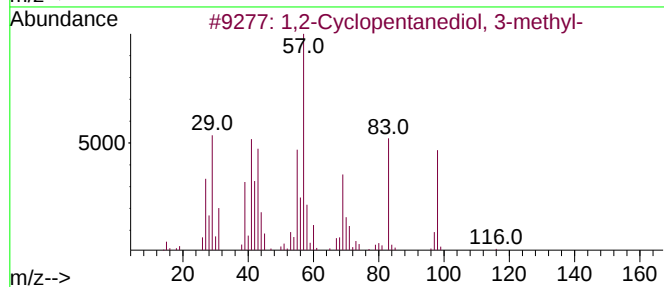
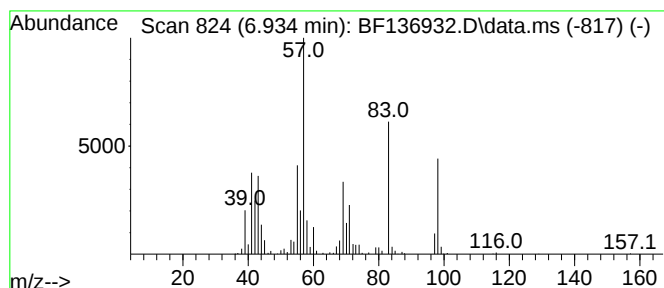
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 1,2-Cyclopentanediol, 3-met... Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD       | R.T.  |
|-------|---------|--------|------------------------|-------|
| 6.934 | 3.76 ng | 630989 | 1,4-Dichlorobenzene-d4 | 6.787 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1,2-Cyclopentanediol, 3-methyl-     | 116 | C6H12O2 | 027583-37-5 | 53   |
| 2    |    |   | 1H-Pyrazole, 3-ethyl-4,5-dihydro-   | 98  | C5H10N2 | 005920-29-6 | 53   |
| 3    |    |   | 1H-Pyrazole, 4,5-dihydro-1,5-dim... | 98  | C5H10N2 | 005775-96-2 | 53   |
| 4    |    |   | Cyclohexane, methyl-                | 98  | C7H14   | 000108-87-2 | 52   |
| 5    |    |   | 1H-Pyrazole, 4,5-dihydro-4,5-dim... | 98  | C5H10N2 | 028019-94-5 | 50   |



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Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

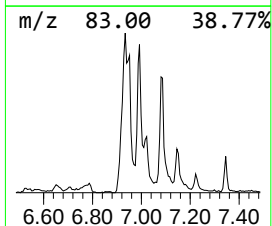
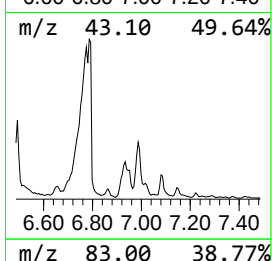
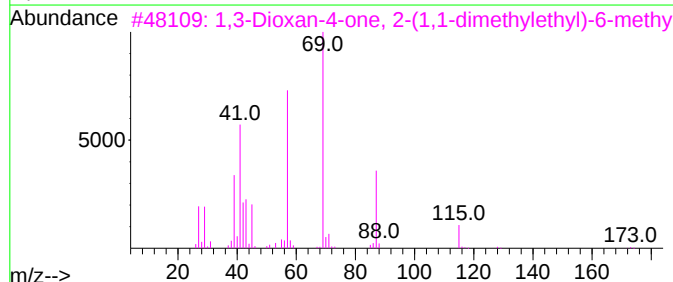
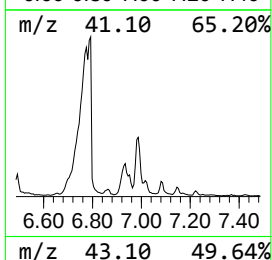
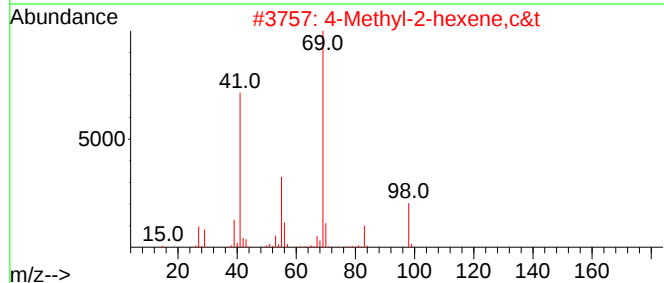
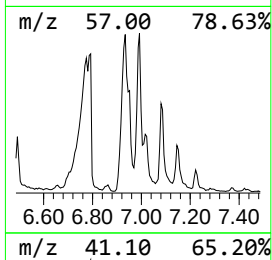
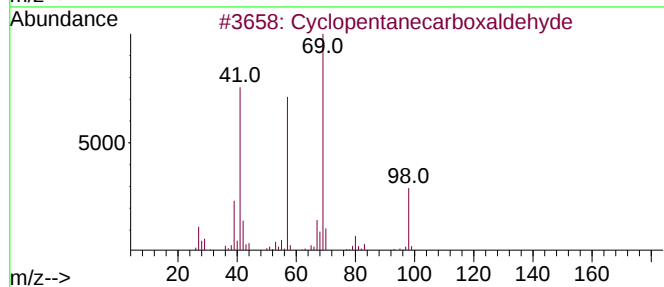
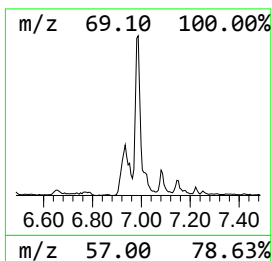
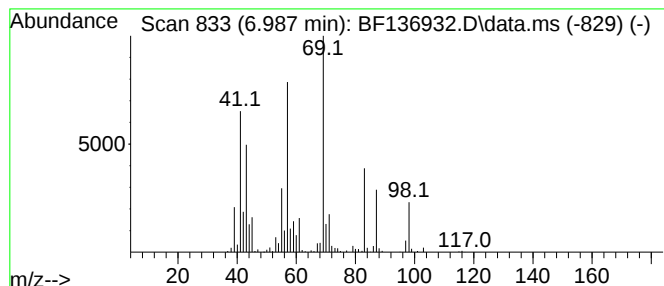
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown6.987 Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD       | R.T.  |
|-------|---------|--------|------------------------|-------|
| 6.987 | 3.80 ng | 637519 | 1,4-Dichlorobenzene-d4 | 6.787 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Cyclopentanecarboxaldehyde          | 98  | C6H10O  | 000872-53-7 | 47   |
| 2    |    |   | 4-Methyl-2-hexene,c&t               | 98  | C7H14   | 003404-55-5 | 45   |
| 3    |    |   | 1,3-Dioxan-4-one, 2-(1,1-dimethy... | 172 | C9H16O3 | 113505-75-2 | 43   |
| 4    |    |   | 1-Pentene, 2,3-dimethyl-            | 98  | C7H14   | 003404-72-6 | 43   |
| 5    |    |   | 2-Hexene, 4-methyl-, (E)-           | 98  | C7H14   | 003683-22-5 | 43   |



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MR-315-0-2

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

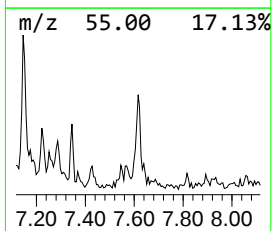
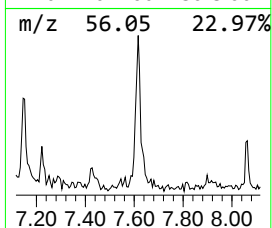
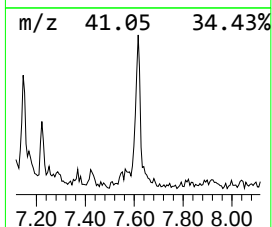
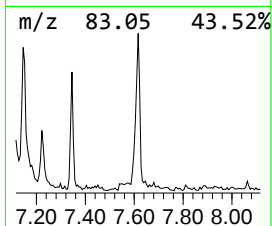
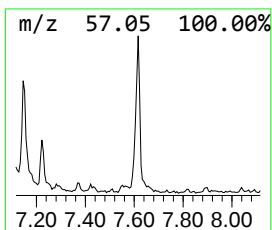
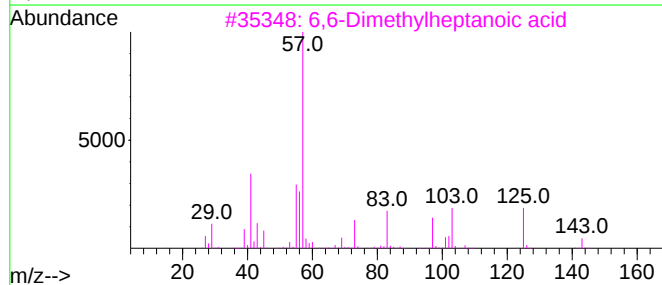
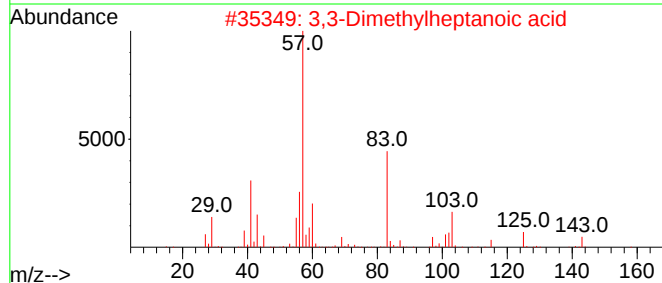
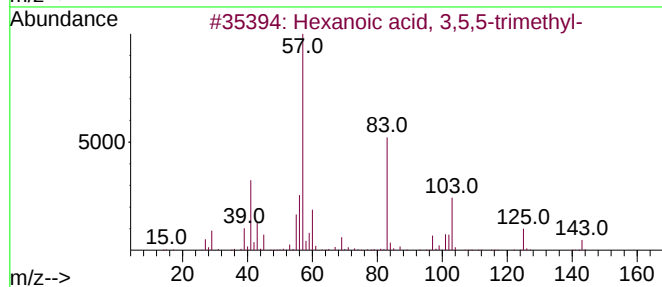
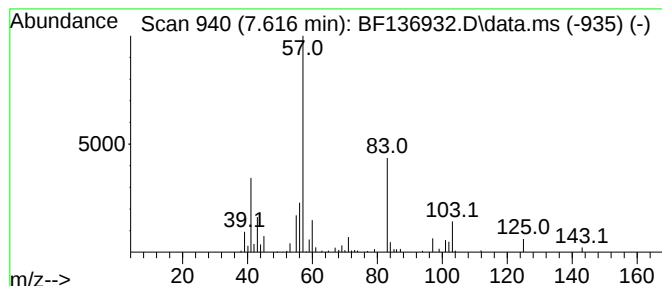
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Hexanoic acid, 3,5,5-trimet... Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 7.616 | 8.97 ng | 142640 | Naphthalene-d8   | 8.063 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|------|-------------------------------------|-----|-------------|--------------|------|
| 1    |      | Hexanoic acid, 3,5,5-trimethyl-     | 158 | C9H18O2     | 003302-10-1  | 90   |
| 2    |      | 3,3-Dimethylheptanoic acid          | 158 | C9H18O2     | 067061-30-7  | 74   |
| 3    |      | 6,6-Dimethylheptanoic acid          | 158 | C9H18O2     | 015898-92-7  | 47   |
| 4    |      | Hexanoyl chloride, 3,5,5-trimethyl- | 176 | C9H17ClO    | 036727-29-4  | 42   |
| 5    |      | 4,4-Dimethyl-2-pentanol, chlorod... | 228 | C9H15ClF2O2 | 1000376-27-0 | 37   |



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Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

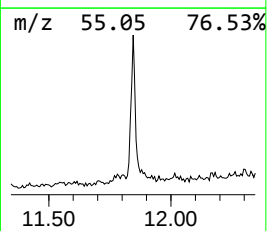
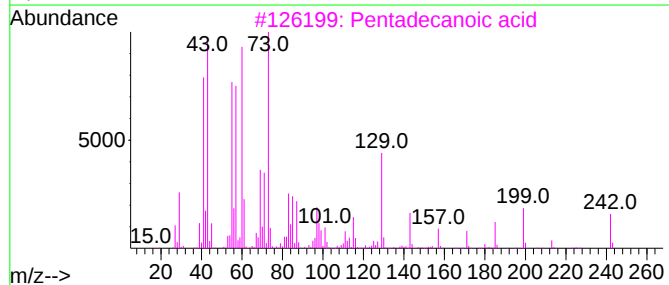
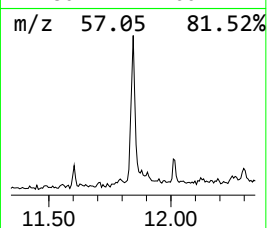
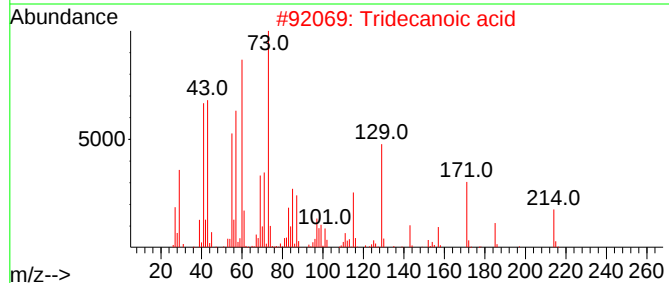
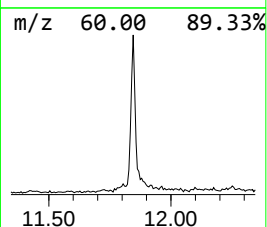
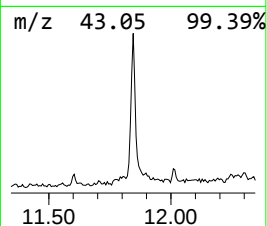
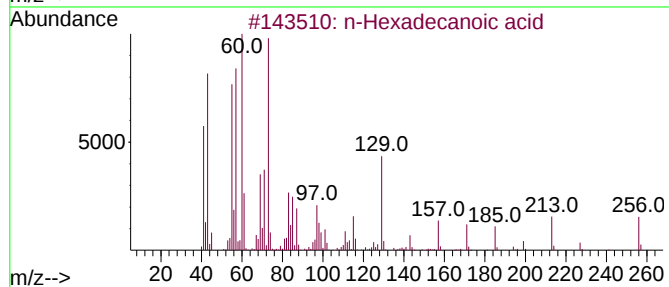
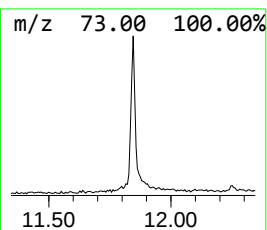
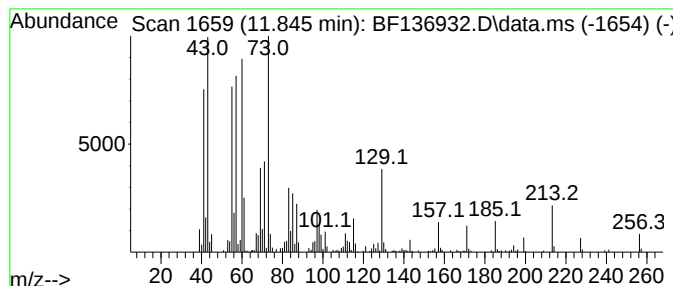
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 n-Hexadecanoic acid Concentration Rank 1

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.845 | 20.38 ng | 374021 | Phenanthrene-d10 | 11.310 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 95   |
| 3    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 93   |
| 4    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 87   |
| 5    |    |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 68   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
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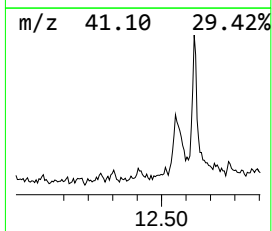
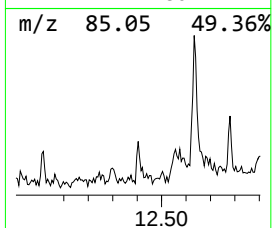
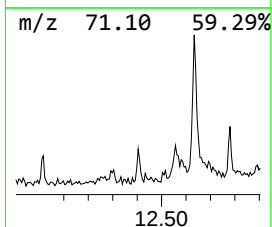
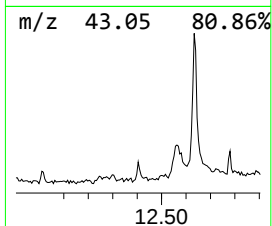
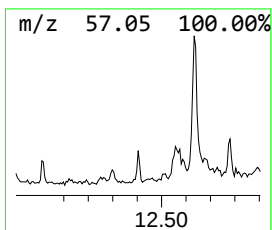
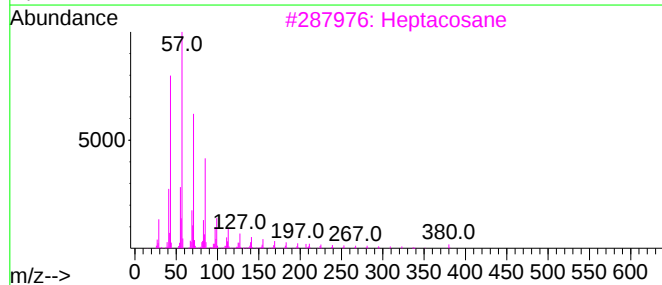
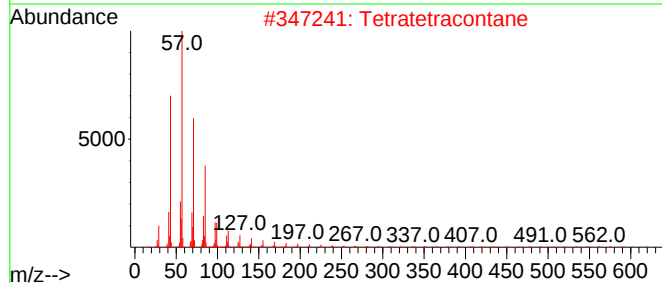
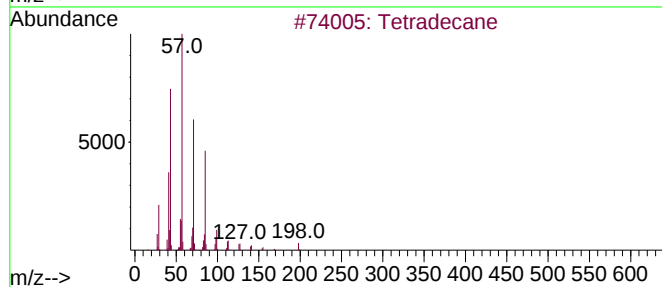
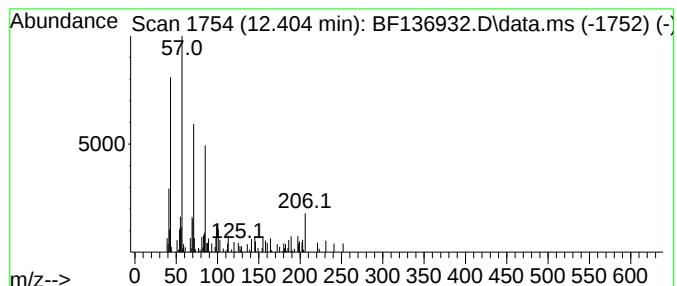
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Tetradecane Concentration Rank 15

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 12.404 | 2.14 ng | 39258 | Phenanthrene-d10 | 11.310 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Tetradecane       | 198 | C14H30  | 000629-59-4 | 95   |
| 2    |    |   | Tetratetracontane | 619 | C44H90  | 007098-22-8 | 58   |
| 3    |    |   | Heptacosane       | 380 | C27H56  | 000593-49-7 | 58   |
| 4    |    |   | Tetracosane       | 338 | C24H50  | 000646-31-1 | 53   |
| 5    |    |   | Heptadecane       | 240 | C17H36  | 000629-78-7 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

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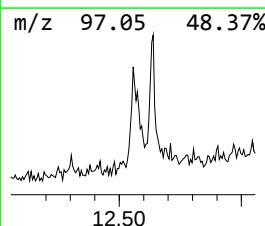
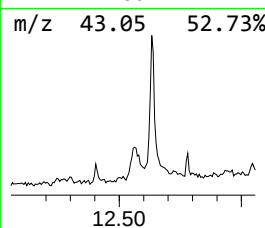
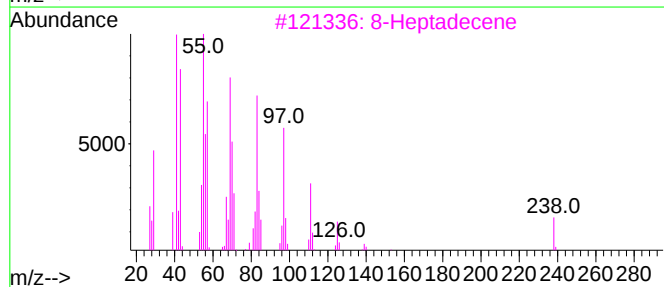
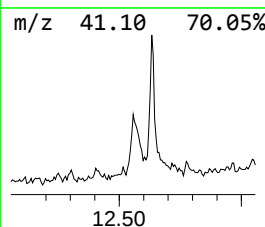
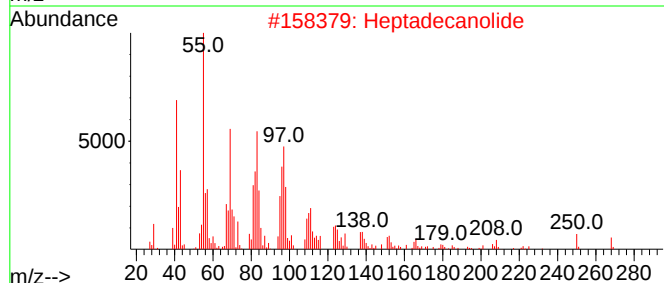
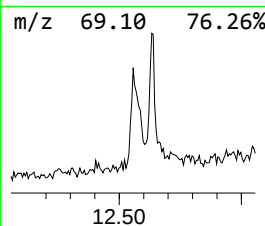
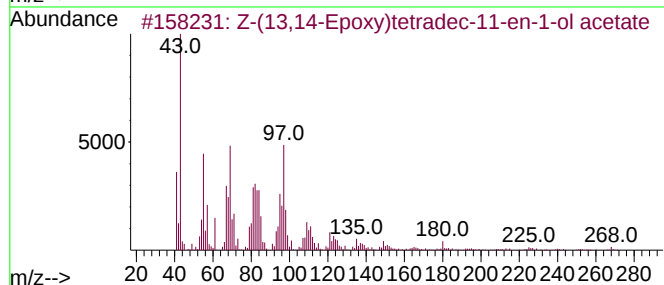
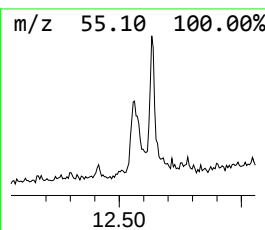
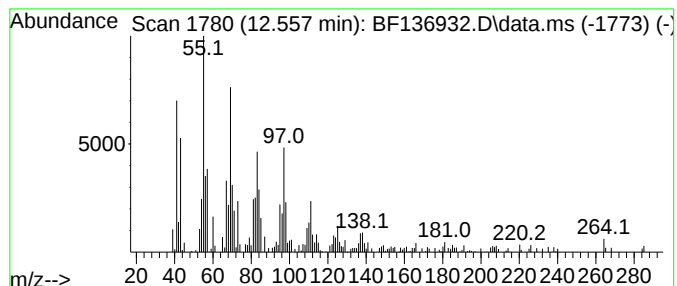
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Z-(13,14-Epoxy)tetradec-11-... Concentration Rank 3

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 12.557 | 17.71 ng | 324999 | Phenanthrene-d10 | 11.310 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Z-(13,14-Epoxy)tetradec-11-en-1-... | 268 | C16H28O3 | 1000131-33-2 | 83   |
| 2    |    |   | Heptadecanolide                     | 268 | C17H32O2 | 005637-97-8  | 78   |
| 3    |    |   | 8-Heptadecene                       | 238 | C17H34   | 002579-04-6  | 70   |
| 4    |    |   | 9-Octadecenoic acid, (E)-           | 282 | C18H34O2 | 000112-79-8  | 68   |
| 5    |    |   | cis-Vaccenic acid                   | 282 | C18H34O2 | 000506-17-2  | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

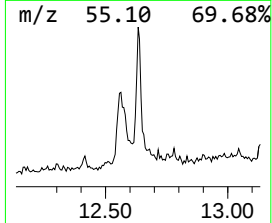
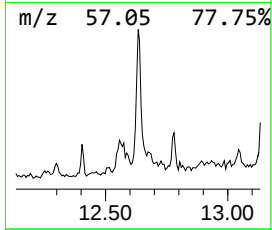
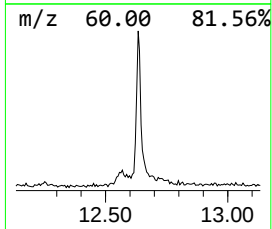
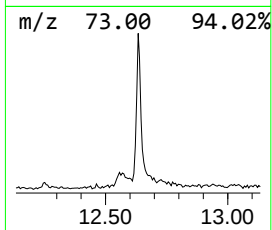
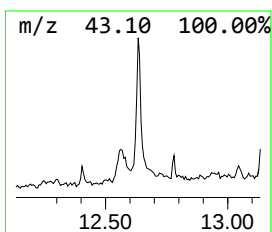
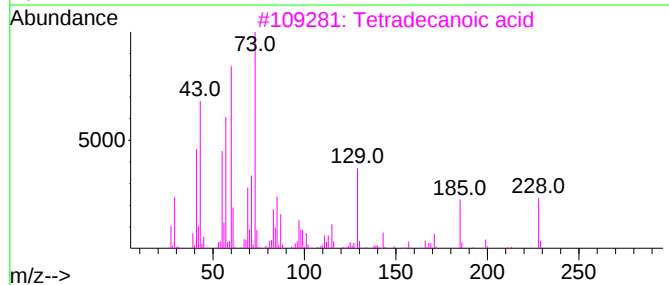
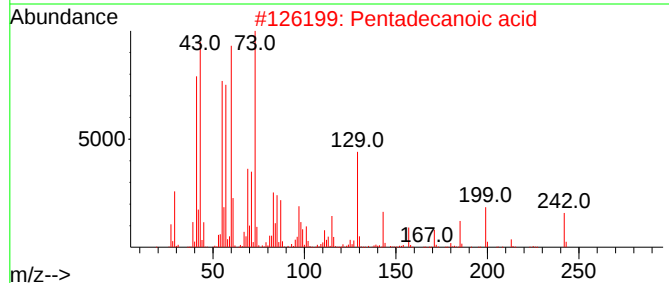
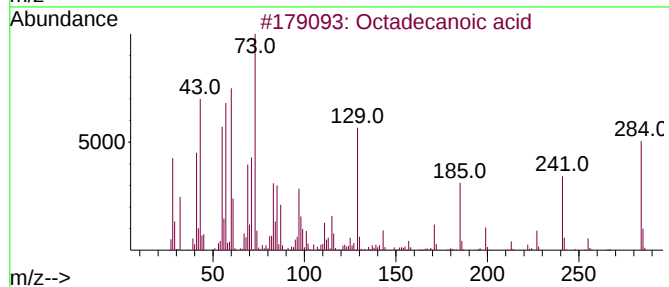
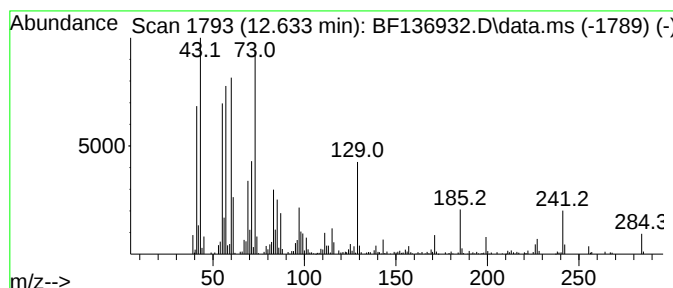
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Octadecanoic acid Concentration Rank 2

| R.T.      | EstConc             | Area   | Relative to ISTD |          | R.T.        |      |
|-----------|---------------------|--------|------------------|----------|-------------|------|
| 12.633    | 20.02 ng            | 367252 | Phenanthrene-d10 |          | 11.310      |      |
| Hit# of 5 | Tentative ID        |        | MW               | MolForm  | CAS#        | Qual |
| 1         | Octadecanoic acid   |        | 284              | C18H36O2 | 000057-11-4 | 98   |
| 2         | Pentadecanoic acid  |        | 242              | C15H30O2 | 001002-84-2 | 89   |
| 3         | Tetradecanoic acid  |        | 228              | C14H28O2 | 000544-63-8 | 74   |
| 4         | n-Hexadecanoic acid |        | 256              | C16H32O2 | 000057-10-3 | 68   |
| 5         | Tridecanoic acid    |        | 214              | C13H26O2 | 000638-53-9 | 58   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
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Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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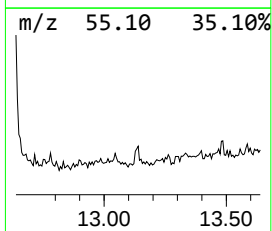
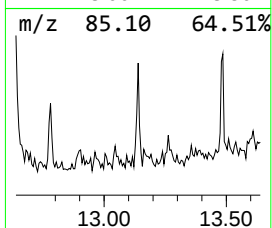
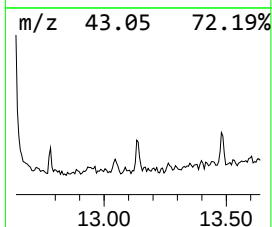
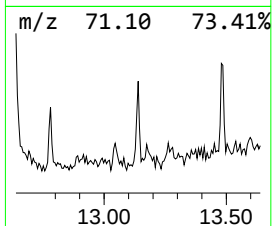
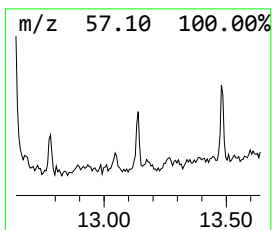
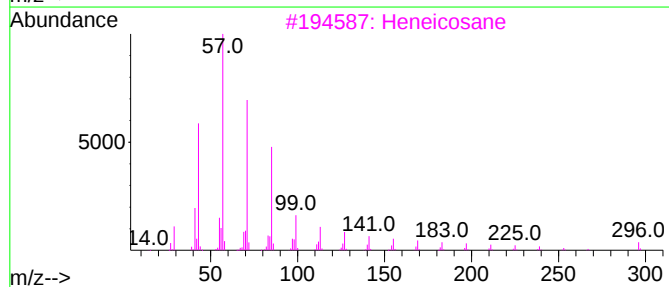
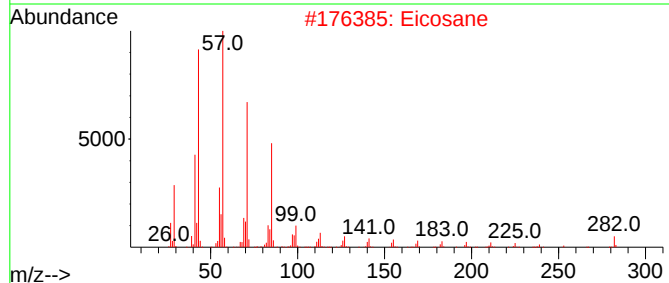
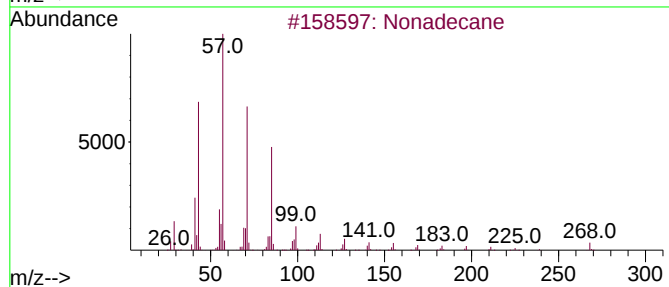
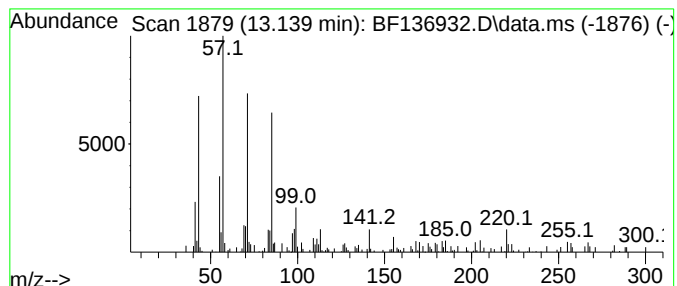
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TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Nonadecane Concentration Rank 14

| R.T.      | EstConc         | Area  | Relative to ISTD |         | R.T.        |      |
|-----------|-----------------|-------|------------------|---------|-------------|------|
| 13.139    | 2.30 ng         | 34286 | Chrysene-d12     |         | 13.969      |      |
| Hit# of 5 | Tentative ID    |       | MW               | MolForm | CAS#        | Qual |
| 1         | Nonadecane      |       | 268              | C19H40  | 000629-92-5 | 92   |
| 2         | Eicosane        |       | 282              | C20H42  | 000112-95-8 | 91   |
| 3         | Heneicosane     |       | 296              | C21H44  | 000629-94-7 | 86   |
| 4         | Pentadecane     |       | 212              | C15H32  | 000629-62-9 | 80   |
| 5         | Decane, 1-iodo- |       | 268              | C10H21I | 002050-77-3 | 76   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
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Misc :  
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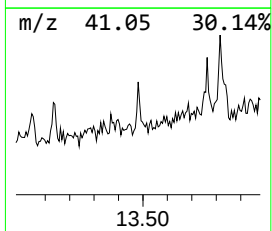
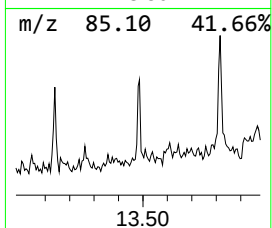
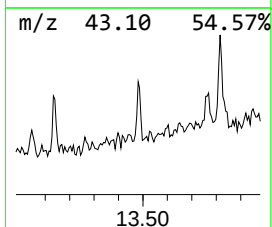
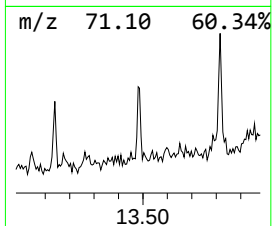
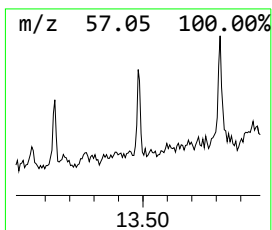
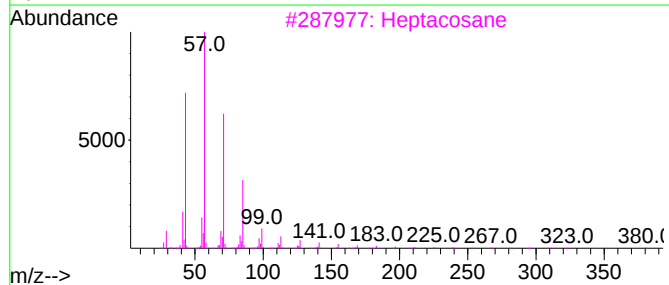
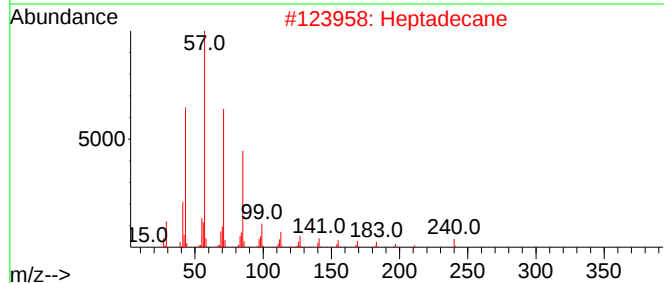
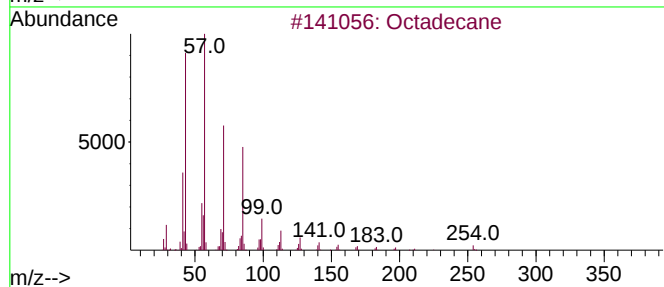
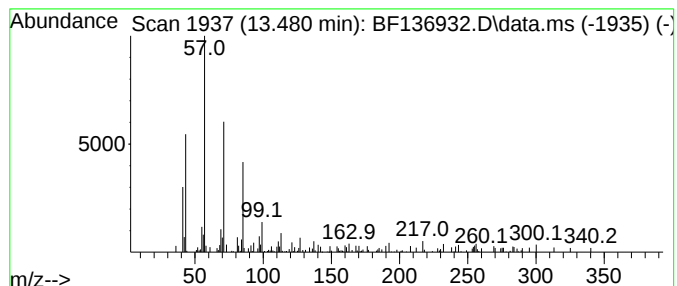
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MR-315-0-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Octadecane Concentration Rank 13

| R.T.      | EstConc              | Area  | Relative to ISTD |         | R.T.        |      |
|-----------|----------------------|-------|------------------|---------|-------------|------|
| 13.480    | 2.56 ng              | 38186 | Chrysene-d12     |         | 13.969      |      |
| Hit# of 5 | Tentative ID         |       | MW               | MolForm | CAS#        | Qual |
| 1         | Octadecane           |       | 254              | C18H38  | 000593-45-3 | 90   |
| 2         | Heptadecane          |       | 240              | C17H36  | 000629-78-7 | 81   |
| 3         | Heptacosane          |       | 380              | C27H56  | 000593-49-7 | 72   |
| 4         | Tetradecane, 1-iodo- |       | 324              | C14H29I | 019218-94-1 | 72   |
| 5         | Docosane             |       | 310              | C22H46  | 000629-97-0 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

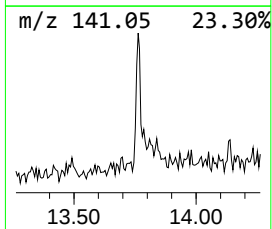
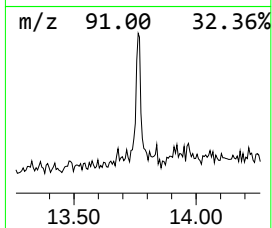
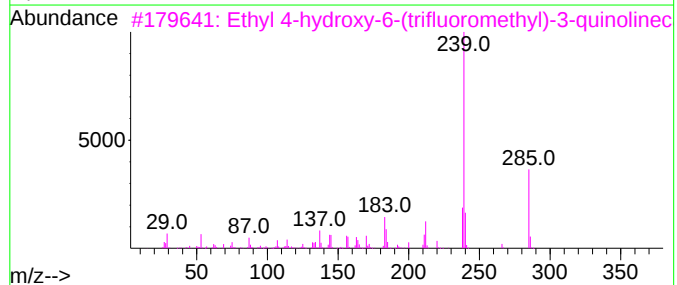
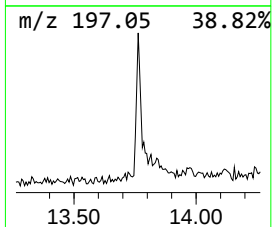
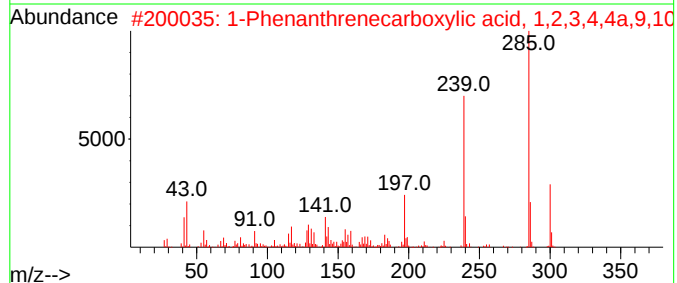
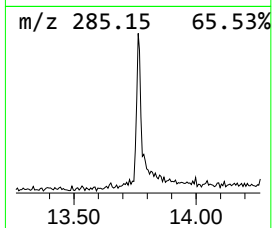
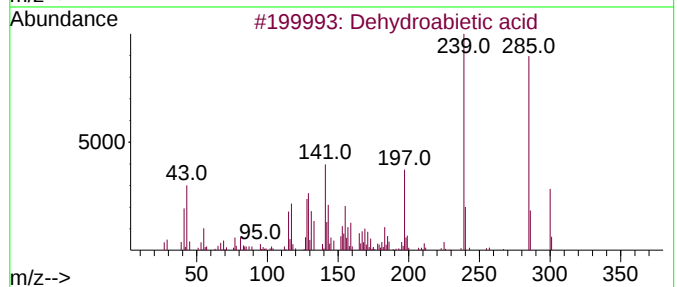
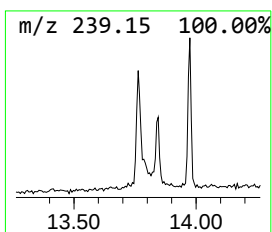
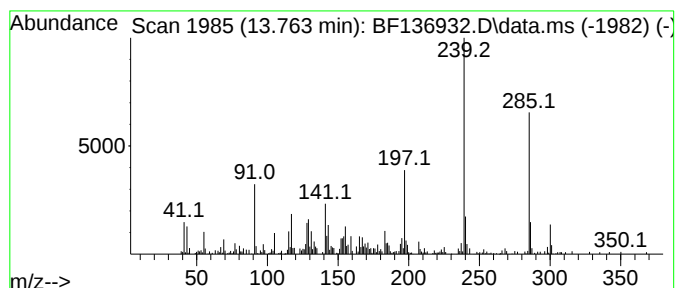
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Dehydroabietic acid Concentration Rank 4

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 13.763 | 11.56 ng | 172319 | Chrysene-d12     | 13.969 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Dehydroabietic acid                 | 300 | C20H28O2    | 001740-19-8  | 95   |
| 2    |    |   | 1-Phenanthrenecarboxylic acid, 1... | 300 | C20H28O2    | 005155-70-4  | 94   |
| 3    |    |   | Ethyl 4-hydroxy-6-(trifluorometh... | 285 | C13H10F3NO3 | 026893-12-9  | 53   |
| 4    |    |   | Butanoic acid, 2-(cyano)(2,4,6-t... | 300 | C17H20N2O3  | 1000267-71-7 | 46   |
| 5    |    |   | Methyl dehydroabietate              | 314 | C21H30O2    | 001235-74-1  | 46   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

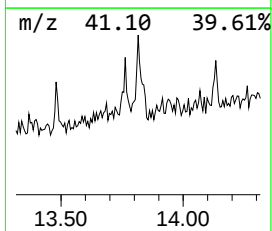
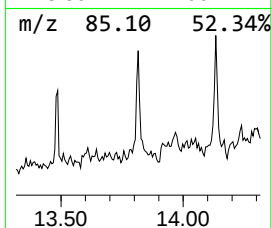
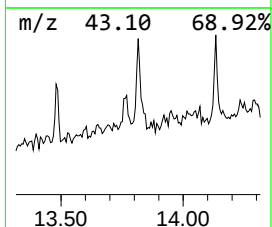
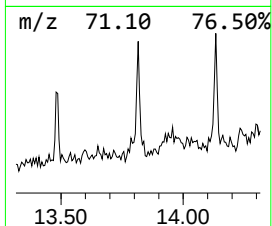
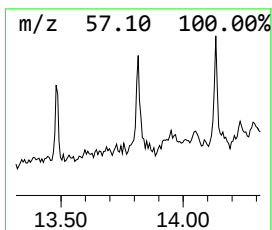
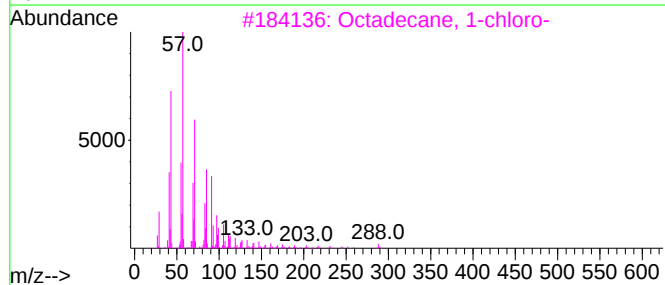
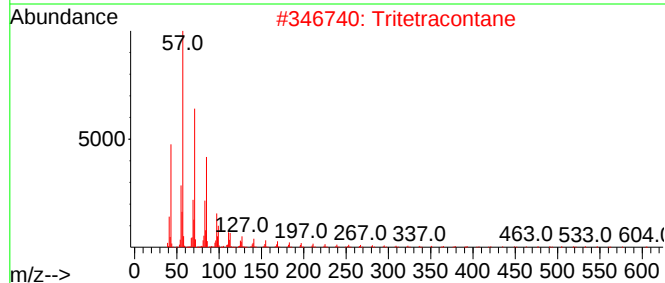
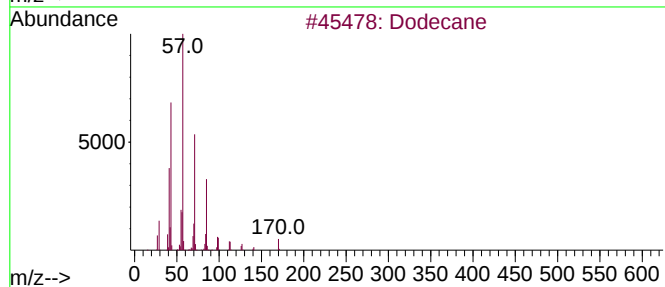
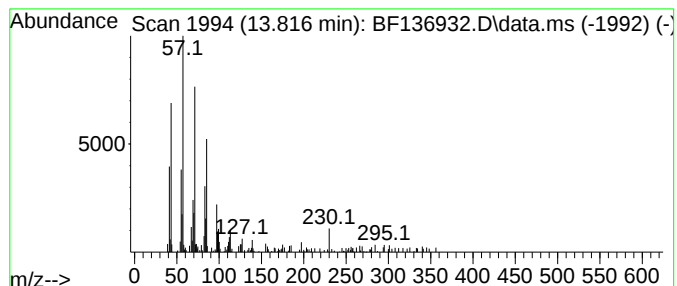
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Dodecane Concentration Rank 11

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 13.816    | 3.48 ng                             | 51850 | Chrysene-d12     | 13.969       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | Dodecane                            | 170   | C12H26           | 000112-40-3  | 95   |
| 2         | Tritetracontane                     | 605   | C43H88           | 007098-21-7  | 87   |
| 3         | Octadecane, 1-chloro-               | 288   | C18H37Cl         | 003386-33-2  | 86   |
| 4         | 1-Octadecanesulphonyl chloride      | 352   | C18H37ClO2S      | 1000342-70-4 | 86   |
| 5         | Carbonic acid, tetradecyl vinyl ... | 284   | C17H32O3         | 1000382-54-5 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

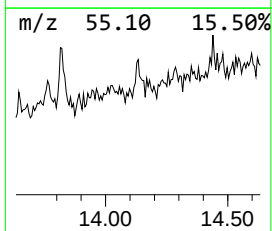
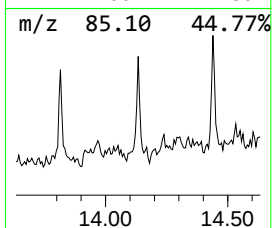
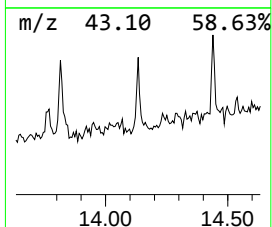
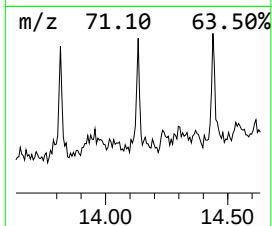
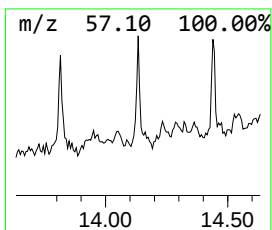
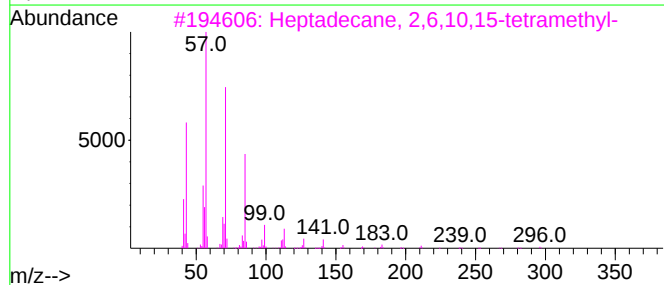
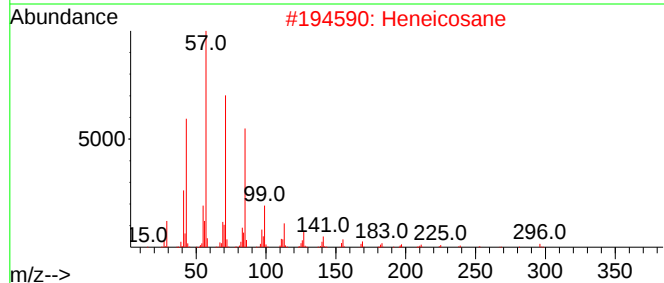
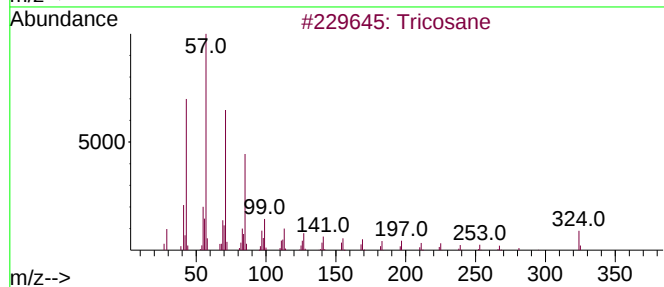
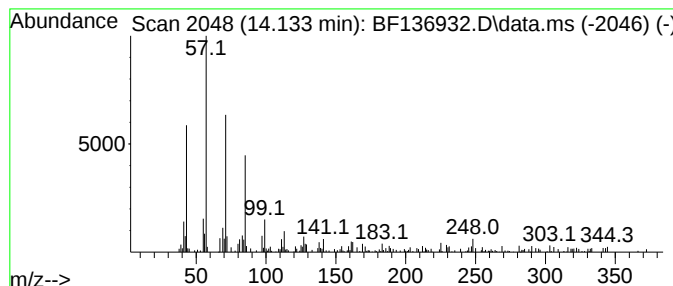
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Tricosane Concentration Rank 12

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 14.133    | 3.30 ng                             | 49225 | Chrysene-d12     | 13.969       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | Tricosane                           | 324   | C23H48           | 000638-67-5  | 91   |
| 2         | Heneicosane                         | 296   | C21H44           | 000629-94-7  | 90   |
| 3         | Heptadecane, 2,6,10,15-tetramethyl- | 296   | C21H44           | 054833-48-6  | 87   |
| 4         | Tetradecane, 2-methyl-              | 212   | C15H32           | 001560-95-8  | 83   |
| 5         | Docosane, 1-iodo-                   | 436   | C22H45I          | 1000406-31-9 | 83   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

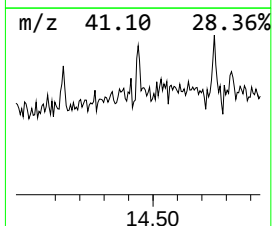
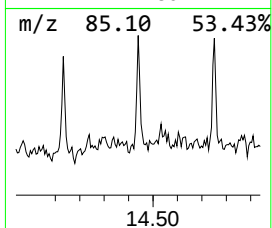
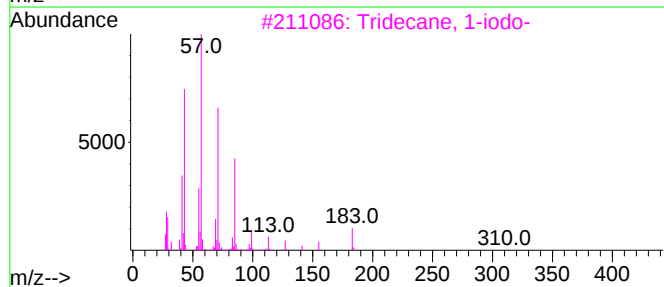
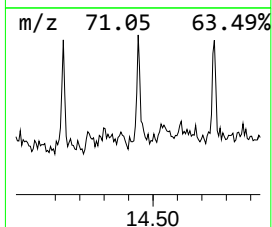
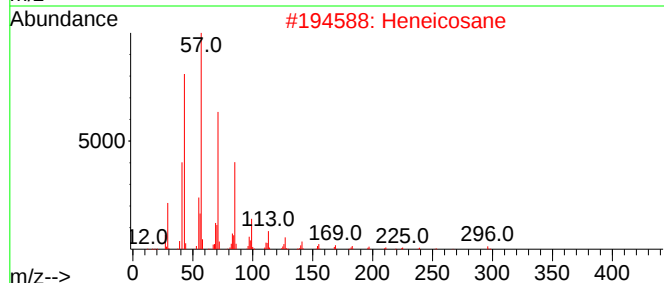
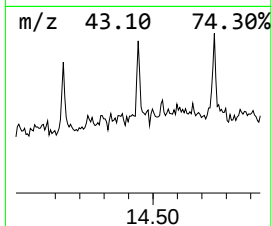
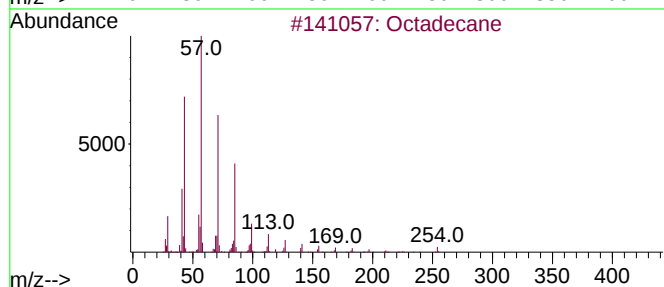
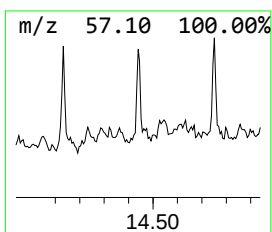
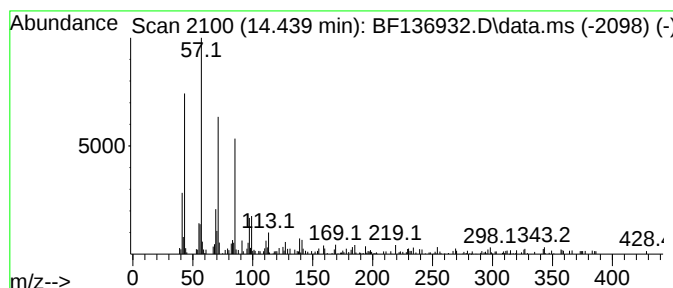
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Heneicosane Concentration Rank 7

| R.T.      | EstConc             | Area  | Relative to ISTD | R.T.        |      |
|-----------|---------------------|-------|------------------|-------------|------|
| 14.439    | 3.81 ng             | 56778 | Chrysene-d12     | 13.969      |      |
| Hit# of 5 | Tentative ID        | MW    | MolForm          | CAS#        | Qual |
| 1         | Octadecane          | 254   | C18H38           | 000593-45-3 | 93   |
| 2         | Heneicosane         | 296   | C21H44           | 000629-94-7 | 91   |
| 3         | Tridecane, 1-iodo-  | 310   | C13H27I          | 035599-77-0 | 91   |
| 4         | 9-Methylheneicosane | 310   | C22H46           | 070475-51-3 | 87   |
| 5         | Hexacosane          | 366   | C26H54           | 000630-01-3 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

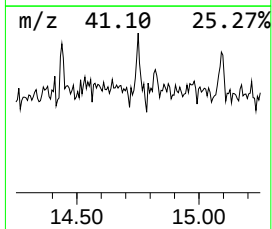
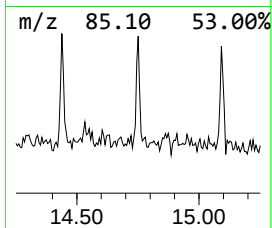
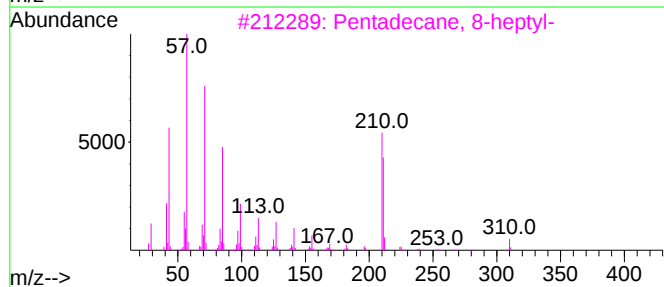
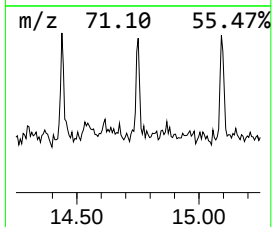
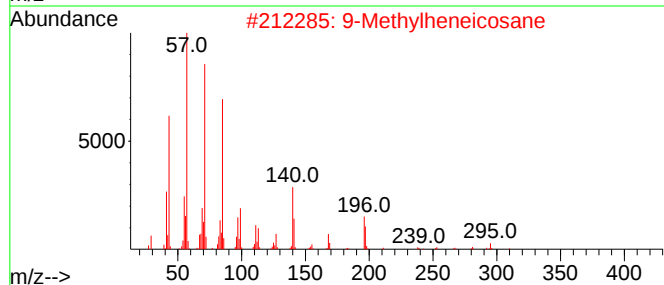
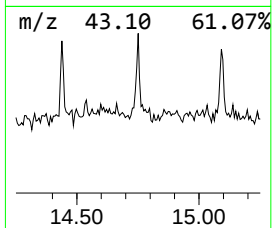
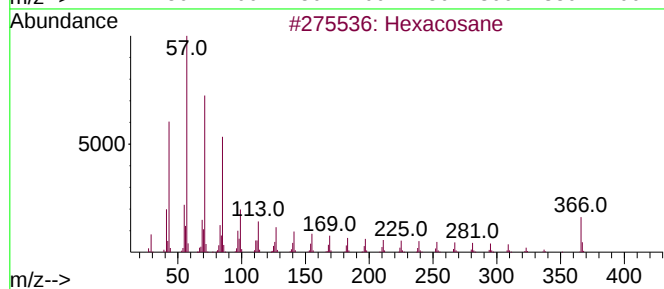
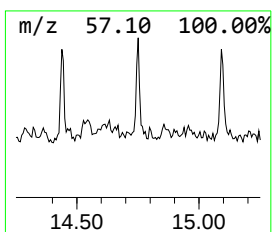
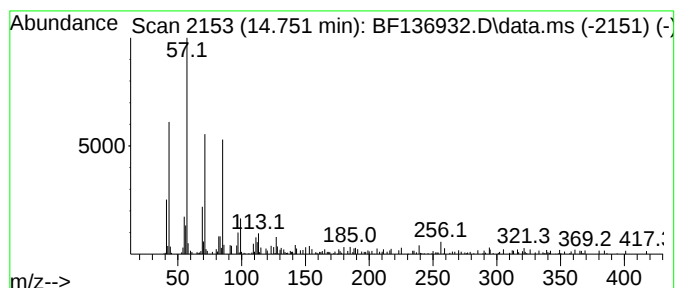
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Hexacosane Concentration Rank 6

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 14.751    | 4.16 ng                             | 44212 | Perylene-d12     | 15.457       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | Hexacosane                          | 366   | C26H54           | 000630-01-3  | 87   |
| 2         | 9-Methylheneicosane                 | 310   | C22H46           | 070475-51-3  | 87   |
| 3         | Pentadecane, 8-heptyl-              | 310   | C22H46           | 071005-15-7  | 76   |
| 4         | Heptacosane                         | 380   | C27H56           | 000593-49-7  | 72   |
| 5         | Sulfurous acid, 2-ethylhexyl iso... | 278   | C14H30O3S        | 1000309-19-0 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010324\  
Data File : BF136932.D  
Acq On : 04 Jan 2024 04:12  
Operator : CG\JU  
Sample : 05980-01 2X  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MR-315-0-2

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

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|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| 1,2-Butanediol     | 5.175  | 3.5     | ng    | 584668   | 1                     | 6.787  | 3354590 | 20.0 |
| 1,2-Cyclopentan... | 6.934  | 3.8     | ng    | 630989   | 1                     | 6.787  | 3354590 | 20.0 |
| unknown6.987       | 6.987  | 3.8     | ng    | 637519   | 1                     | 6.787  | 3354590 | 20.0 |
| Hexanoic acid, ... | 7.616  | 9.0     | ng    | 142640   | 2                     | 8.063  | 317881  | 20.0 |
| n-Hexadecanoic ... | 11.845 | 20.4    | ng    | 374021   | 4                     | 11.310 | 366962  | 20.0 |
| Tetradecane        | 12.404 | 2.1     | ng    | 39258    | 4                     | 11.310 | 366962  | 20.0 |
| Z-(13,14-Epoxy)... | 12.557 | 17.7    | ng    | 324999   | 4                     | 11.310 | 366962  | 20.0 |
| Octadecanoic acid  | 12.633 | 20.0    | ng    | 367252   | 4                     | 11.310 | 366962  | 20.0 |
| Nonadecane         | 13.139 | 2.3     | ng    | 34286    | 5                     | 13.969 | 298161  | 20.0 |
| Octadecane         | 13.480 | 2.6     | ng    | 38186    | 5                     | 13.969 | 298161  | 20.0 |
| Dehydroabietic ... | 13.763 | 11.6    | ng    | 172319   | 5                     | 13.969 | 298161  | 20.0 |
| Dodecane           | 13.816 | 3.5     | ng    | 51850    | 5                     | 13.969 | 298161  | 20.0 |
| Tricosane          | 14.133 | 3.3     | ng    | 49225    | 5                     | 13.969 | 298161  | 20.0 |
| Heneicosane        | 14.439 | 3.8     | ng    | 56778    | 5                     | 13.969 | 298161  | 20.0 |
| Hexacosane         | 14.751 | 4.2     | ng    | 44212    | 6                     | 15.457 | 212560  | 20.0 |