

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
 Data File : BF140096.D  
 Acq On : 28 Oct 2024 19:27  
 Operator : RC/JU  
 Sample : P4577-01  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-102524

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-BF101824.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140096.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         | 2.175       | 6             | 14          | 22           | rVB      | 1015514        | 1624081       | 67.35%          | 7.099%        |
| 2         | 3.987       | 316           | 322         | 329          | rVB      | 18667          | 28549         | 1.18%           | 0.125%        |
| 3         | 5.110       | 503           | 513         | 519          | rVB2     | 22699          | 39060         | 1.62%           | 0.171%        |
| 4         | 5.504       | 573           | 580         | 585          | rBV      | 1665394        | 2208045       | 91.56%          | 9.651%        |
| 5         | 6.504       | 744           | 750         | 760          | rVB      | 1562546        | 2222962       | 92.18%          | 9.716%        |
| 6         | 6.887       | 810           | 815         | 820          | rBV      | 580017         | 707026        | 29.32%          | 3.090%        |
| 7         | 7.281       | 875           | 882         | 891          | rBV3     | 13636          | 25351         | 1.05%           | 0.111%        |
| 8         | 7.445       | 901           | 910         | 915          | rBV      | 1154841        | 1528013       | 63.36%          | 6.679%        |
| 9         | 7.528       | 920           | 924         | 928          | rVB4     | 20050          | 32855         | 1.36%           | 0.144%        |
| 10        | 7.698       | 947           | 953         | 959          | rVB2     | 83097          | 119649        | 4.96%           | 0.523%        |
| 11        | 7.904       | 982           | 988         | 991          | rBV4     | 20369          | 31850         | 1.32%           | 0.139%        |
| 12        | 8.169       | 1021          | 1033        | 1040         | rBV      | 724943         | 1003057       | 41.59%          | 4.384%        |
| 13        | 8.375       | 1064          | 1068        | 1072         | rVB3     | 24522          | 38129         | 1.58%           | 0.167%        |
| 14        | 8.457       | 1077          | 1082        | 1086         | rBV4     | 26969          | 38670         | 1.60%           | 0.169%        |
| 15        | 8.551       | 1095          | 1098        | 1101         | rBV2     | 27086          | 31494         | 1.31%           | 0.138%        |
| 16        | 8.675       | 1115          | 1119        | 1123         | rBV3     | 70148          | 96463         | 4.00%           | 0.422%        |
| 17        | 8.757       | 1129          | 1133        | 1136         | rBV2     | 46821          | 60959         | 2.53%           | 0.266%        |
| 18        | 8.828       | 1142          | 1145        | 1152         | rVB5     | 30877          | 46896         | 1.94%           | 0.205%        |
| 19        | 8.992       | 1168          | 1173        | 1176         | rBV2     | 74699          | 108722        | 4.51%           | 0.475%        |
| 20        | 9.122       | 1190          | 1195        | 1199         | rVB5     | 29509          | 57450         | 2.38%           | 0.251%        |
| 21        | 9.186       | 1203          | 1206        | 1209         | rVV2     | 34338          | 45718         | 1.90%           | 0.200%        |
| 22        | 9.245       | 1211          | 1216        | 1221         | rVV      | 1856961        | 2411562       | 100.00%         | 10.541%       |
| 23        | 9.322       | 1225          | 1229        | 1233         | rVV      | 100634         | 124910        | 5.18%           | 0.546%        |
| 24        | 9.392       | 1238          | 1241        | 1244         | rVB      | 49137          | 56842         | 2.36%           | 0.248%        |
| 25        | 9.504       | 1256          | 1260        | 1265         | rVB4     | 32215          | 57070         | 2.37%           | 0.249%        |
| 26        | 9.575       | 1266          | 1272        | 1274         | rBV5     | 49876          | 107891        | 4.47%           | 0.472%        |
| 27        | 9.639       | 1279          | 1283        | 1286         | rBV4     | 77686          | 109170        | 4.53%           | 0.477%        |
| 28        | 9.698       | 1291          | 1293        | 1297         | rVB3     | 49219          | 61674         | 2.56%           | 0.270%        |
| 29        | 9.851       | 1315          | 1319        | 1323         | rVB      | 153072         | 189300        | 7.85%           | 0.827%        |
| 30        | 9.922       | 1326          | 1331        | 1336         | rVB      | 662922         | 831797        | 34.49%          | 3.636%        |
| 31        | 10.027      | 1346          | 1349        | 1353         | rVB2     | 24932          | 29821         | 1.24%           | 0.130%        |
| 32        | 10.175      | 1370          | 1374        | 1378         | rBV4     | 44744          | 63504         | 2.63%           | 0.278%        |
| 33        | 10.245      | 1383          | 1386        | 1392         | rBV6     | 21990          | 45323         | 1.88%           | 0.198%        |
| 34        | 10.351      | 1399          | 1404        | 1408         | rBV      | 213494         | 273340        | 11.33%          | 1.195%        |
| 35        | 10.569      | 1437          | 1441        | 1447         | rVB      | 92519          | 145739        | 6.04%           | 0.637%        |
| 36        | 10.633      | 1447          | 1452        | 1459         | rVV      | 298381         | 404432        | 16.77%          | 1.768%        |

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Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

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\_F\Methods\8270-BF101824.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 10.710 | 1459 | 1465 | 1477 | rVV  | 815772  | 1088436 | 45.13% | 4.758% |
| 38 | 10.827 | 1480 | 1485 | 1493 | rVB  | 259358  | 423021  | 17.54% | 1.849% |
| 39 | 11.274 | 1556 | 1561 | 1563 | rBV  | 190227  | 251587  | 10.43% | 1.100% |
| 40 | 11.304 | 1563 | 1566 | 1571 | rVB  | 97739   | 136790  | 5.67%  | 0.598% |
| 41 | 11.410 | 1579 | 1584 | 1594 | rBV2 | 578208  | 882777  | 36.61% | 3.859% |
| 42 | 11.698 | 1629 | 1633 | 1638 | rBV  | 164152  | 198525  | 8.23%  | 0.868% |
| 43 | 11.933 | 1669 | 1673 | 1680 | rVB2 | 140512  | 207410  | 8.60%  | 0.907% |
| 44 | 12.104 | 1698 | 1702 | 1707 | rBV  | 137390  | 169992  | 7.05%  | 0.743% |
| 45 | 12.492 | 1765 | 1768 | 1774 | rVB  | 110226  | 139080  | 5.77%  | 0.608% |
| 46 | 12.621 | 1786 | 1790 | 1795 | rBV  | 187568  | 253572  | 10.51% | 1.108% |
| 47 | 12.851 | 1825 | 1829 | 1835 | rBV2 | 159621  | 285407  | 11.83% | 1.248% |
| 48 | 12.992 | 1848 | 1853 | 1861 | rBV  | 1541362 | 1980791 | 82.14% | 8.658% |
| 49 | 13.892 | 2003 | 2006 | 2016 | rVB  | 181578  | 290124  | 12.03% | 1.268% |
| 50 | 14.045 | 2028 | 2032 | 2044 | rVB2 | 515952  | 866501  | 35.93% | 3.787% |
| 51 | 14.968 | 2187 | 2189 | 2196 | rVB  | 102968  | 140669  | 5.83%  | 0.615% |
| 52 | 15.527 | 2280 | 2284 | 2295 | rVB  | 301748  | 556260  | 23.07% | 2.431% |

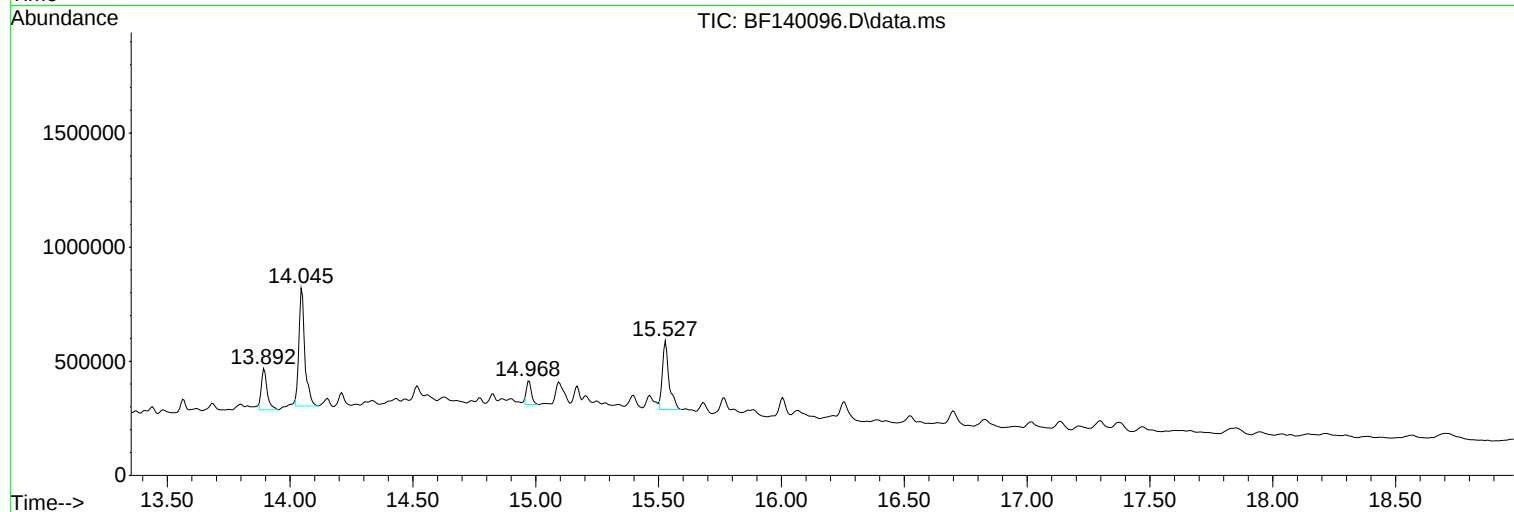
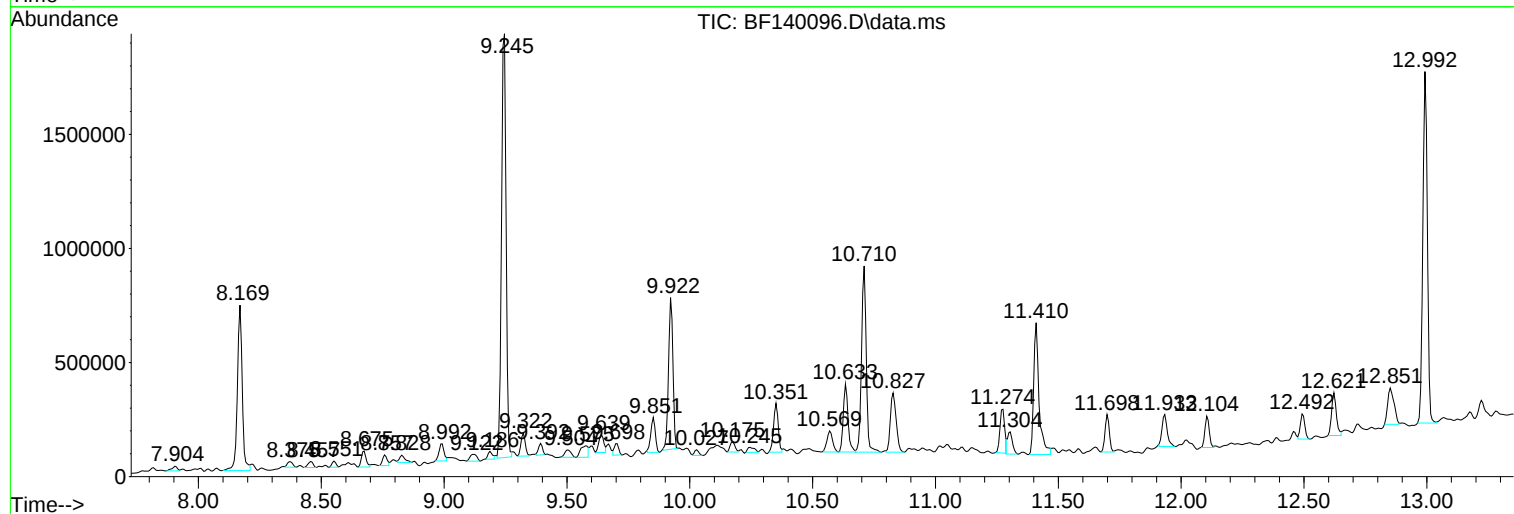
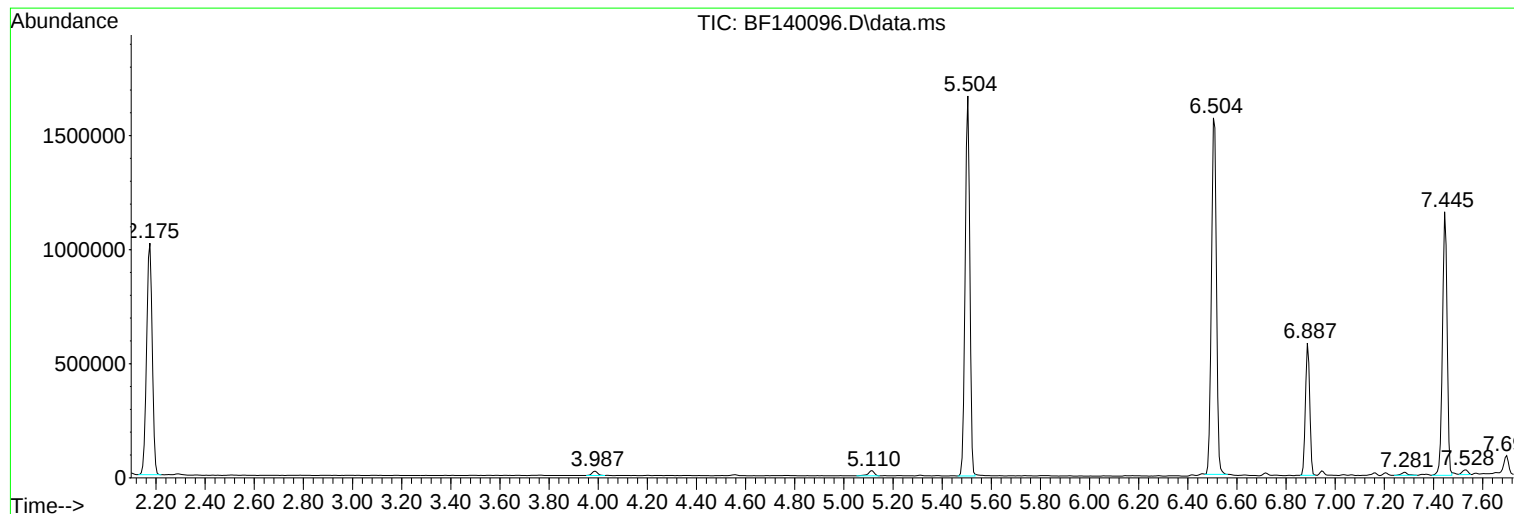
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Instrument :  
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ClientSampleId :  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
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Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

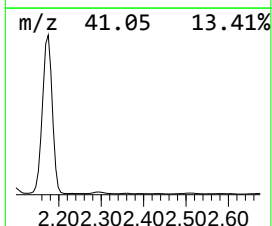
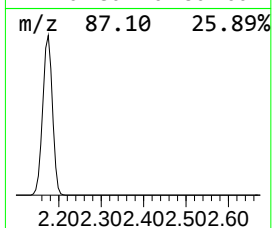
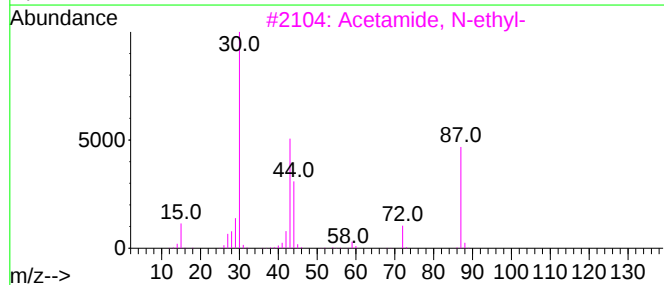
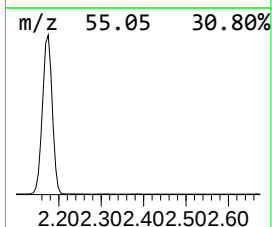
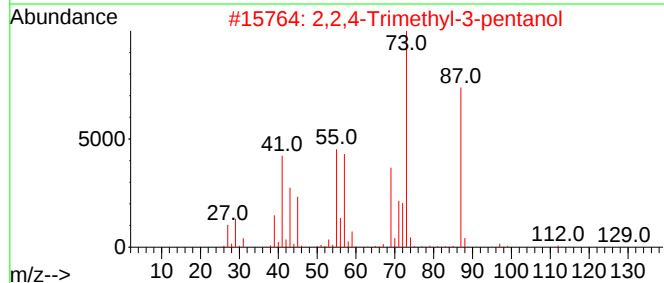
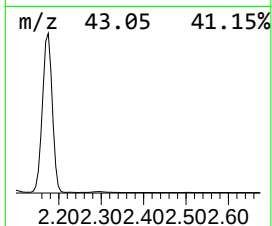
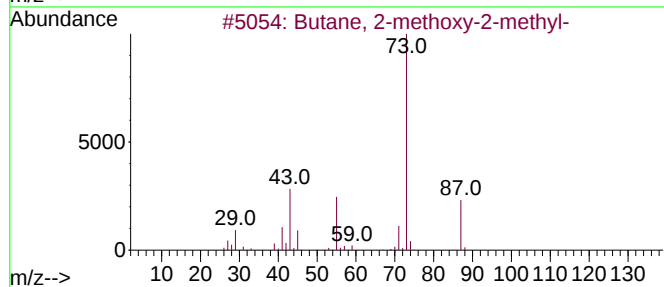
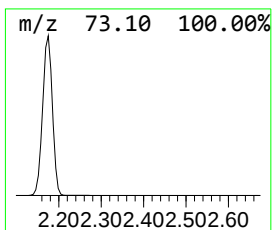
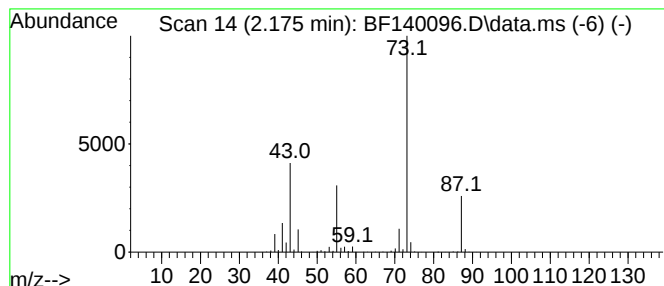
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T.  | EstConc  | Area    | Relative to ISTD       | R.T.  |
|-------|----------|---------|------------------------|-------|
| 2.175 | 45.94 ng | 1624080 | 1,4-Dichlorobenzene-d4 | 6.886 |

| Hit# | of | 5 | Tentative ID                     | MW  | MolForm  | CAS#        | Qual |
|------|----|---|----------------------------------|-----|----------|-------------|------|
| 1    |    |   | 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    |    |   | Acetamide, N-ethyl-              | 87  | C4H9NO   | 000625-50-3 | 27   |
| 4    |    |   | 1,3-Dioxolane, 2-methyl-         | 88  | C4H8O2   | 000497-26-7 | 25   |
| 5    |    |   | Octanal, 7-methoxy-3,7-dimethyl- | 186 | C11H22O2 | 003613-30-7 | 17   |



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ALS Vial : 23 Sample Multiplier: 1

Instrument :  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
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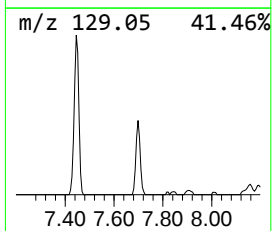
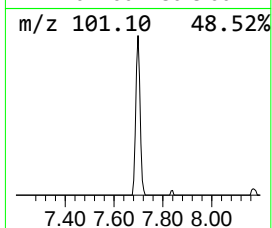
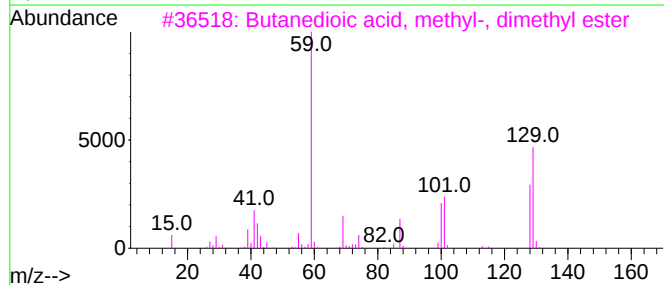
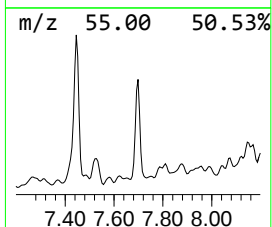
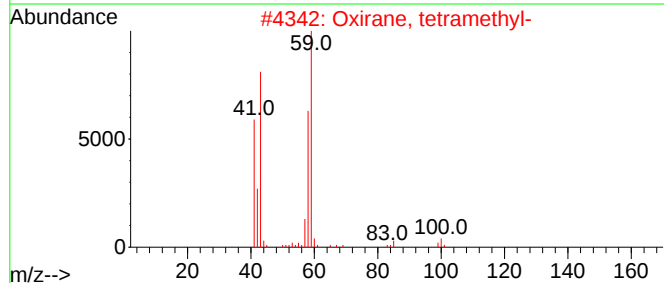
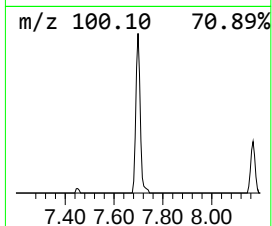
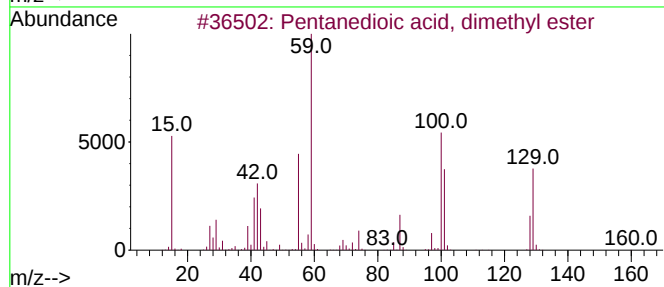
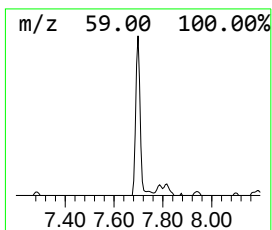
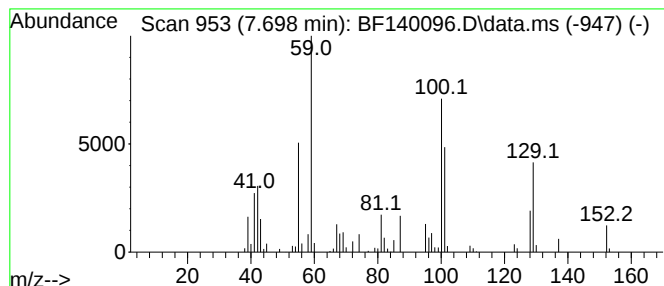
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 7.698 | 2.39 ng | 119649 | Naphthalene-d8   | 8.169 |

| Hit# | of | 5 | Tentative ID                              | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentanedioic acid, dimethyl ester         | 160 | C7H12O4 | 001119-40-0 | 86   |
| 2    |    |   | Oxirane, tetramethyl-                     | 100 | C6H12O  | 005076-20-0 | 43   |
| 3    |    |   | Butanedioic acid, methyl-, dimethyl ester | 160 | C7H12O4 | 001604-11-1 | 32   |
| 4    |    |   | Hydrazine, trimethyl-                     | 74  | C3H10N2 | 001741-01-1 | 25   |
| 5    |    |   | Hydrazine, 1,1-bis(1-methylethyl)-        | 116 | C6H16N2 | 000921-14-2 | 23   |



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Instrument :  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

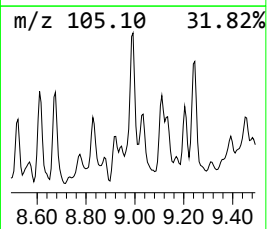
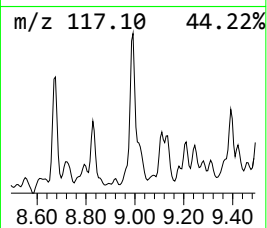
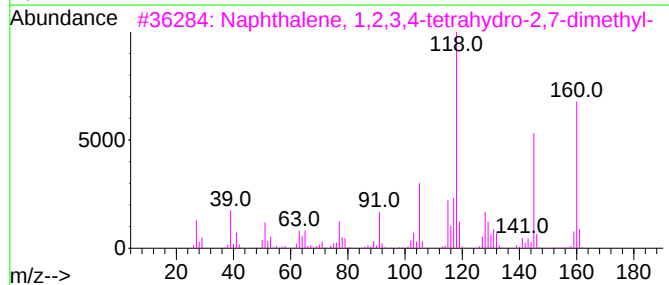
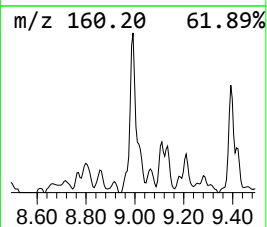
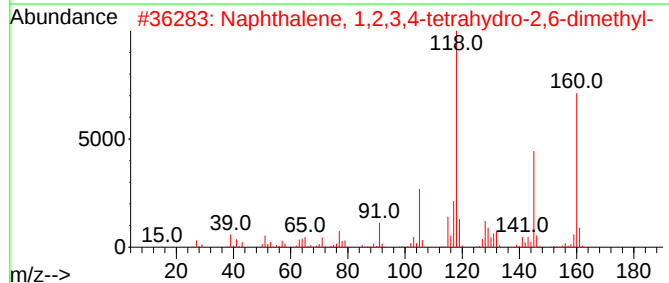
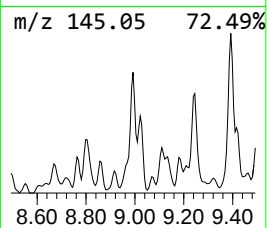
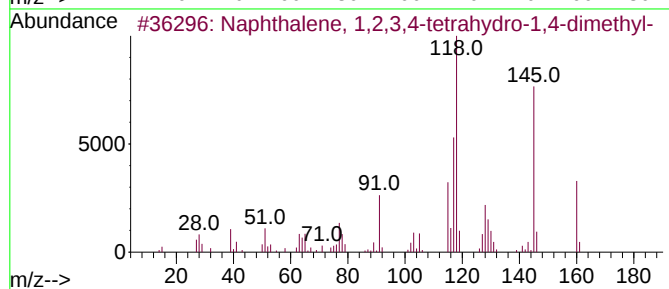
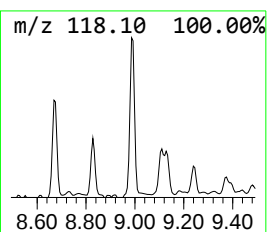
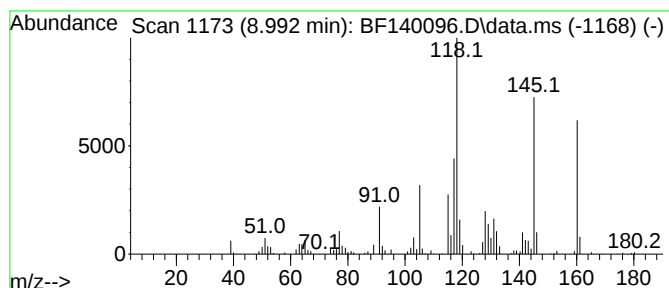
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 19

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 8.992 | 2.17 ng | 108722 | Naphthalene-d8   | 8.169 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 004175-54-6 | 95   |
| 2    |    |   | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 007524-63-2 | 91   |
| 3    |    |   | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16  | 013065-07-1 | 90   |
| 4    |    |   | Benzene, (3-methyl-1-methylenebu... | 160 | C12H16  | 038212-14-5 | 52   |
| 5    |    |   | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16  | 054340-85-1 | 46   |



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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

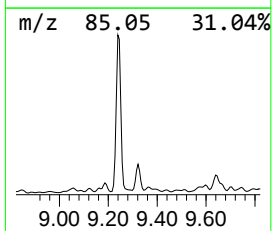
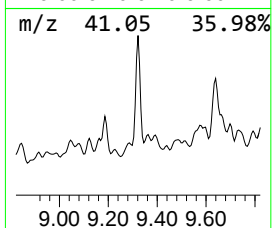
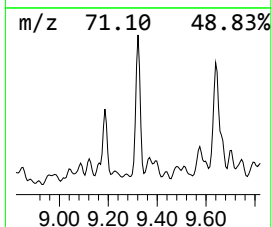
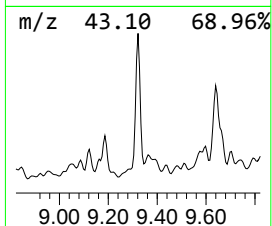
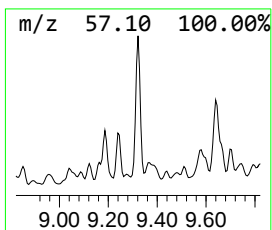
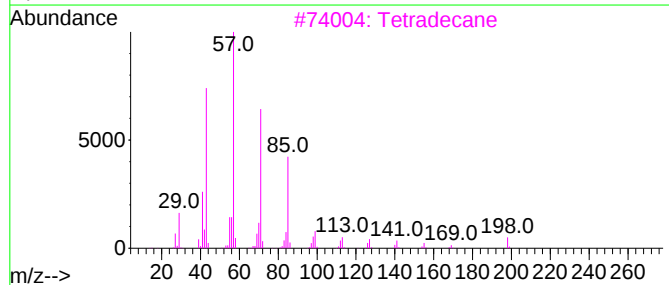
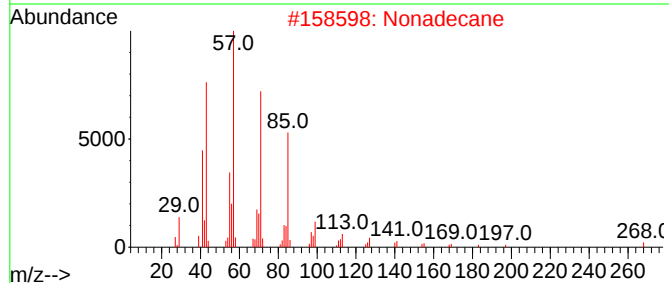
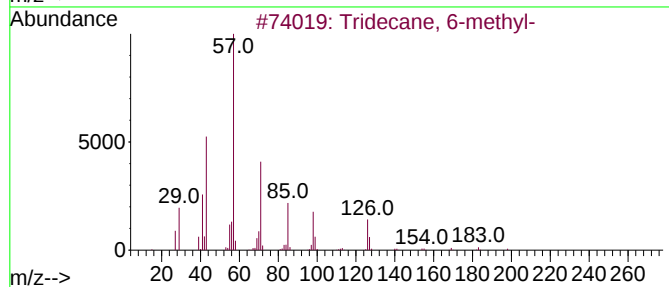
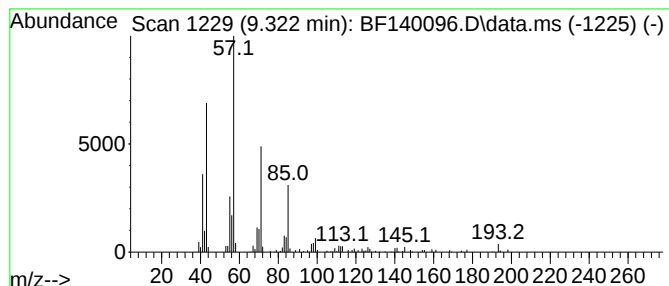
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Tridecane, 6-methyl- Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.322 | 3.00 ng | 124910 | Acenaphthene-d10 | 9.922 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Tridecane, 6-methyl- | 198 | C14H30  | 013287-21-3 | 90   |
| 2    |    |   | Nonadecane           | 268 | C19H40  | 000629-92-5 | 87   |
| 3    |    |   | Tetradecane          | 198 | C14H30  | 000629-59-4 | 81   |
| 4    |    |   | Hexadecane           | 226 | C16H34  | 000544-76-3 | 80   |
| 5    |    |   | Dodecane             | 170 | C12H26  | 000112-40-3 | 78   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

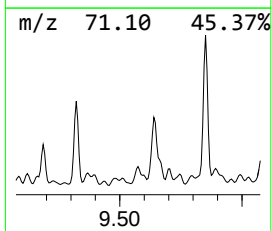
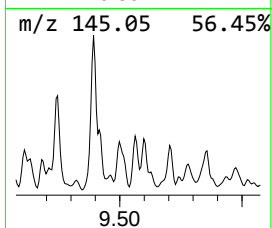
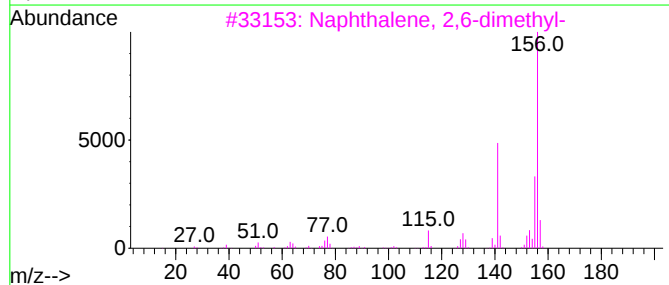
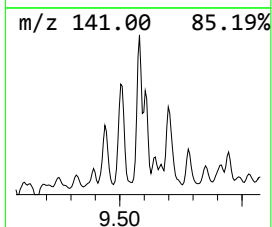
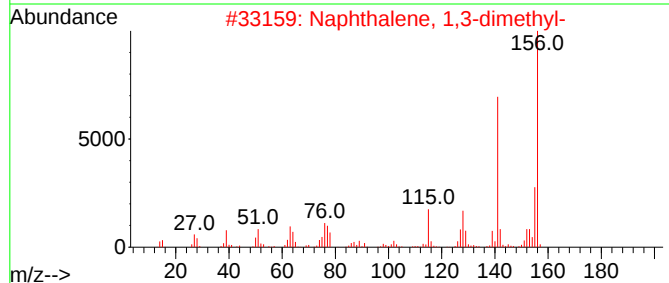
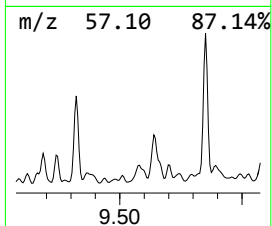
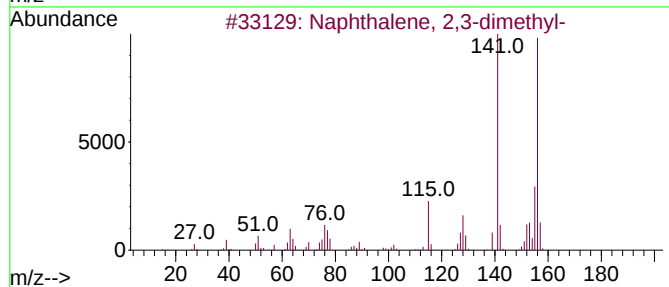
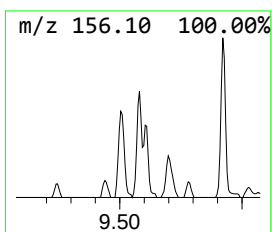
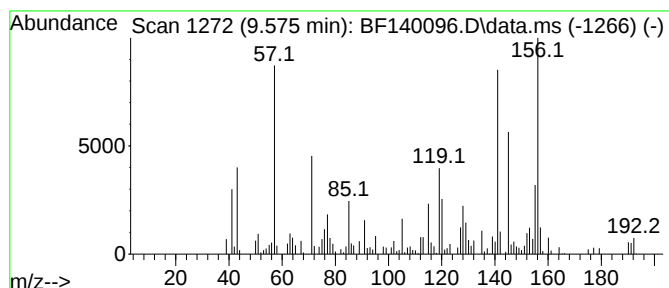
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 17

| R.T.      | EstConc                    | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|----------------------------|--------|------------------|---------|-------------|------|
| 9.575     | 2.59 ng                    | 107891 | Acenaphthene-d10 |         | 9.922       |      |
| Hit# of 5 | Tentative ID               |        | MW               | MolForm | CAS#        | Qual |
| 1         | Naphthalene, 2,3-dimethyl- |        | 156              | C12H12  | 000581-40-8 | 95   |
| 2         | Naphthalene, 1,3-dimethyl- |        | 156              | C12H12  | 000575-41-7 | 95   |
| 3         | Naphthalene, 2,6-dimethyl- |        | 156              | C12H12  | 000581-42-0 | 91   |
| 4         | Naphthalene, 1,6-dimethyl- |        | 156              | C12H12  | 000575-43-9 | 90   |
| 5         | Naphthalene, 2,7-dimethyl- |        | 156              | C12H12  | 000582-16-1 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

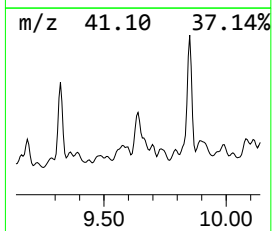
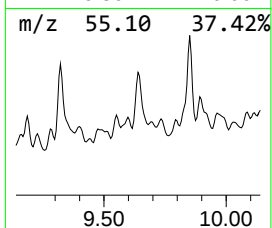
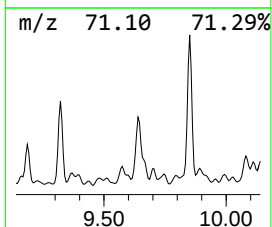
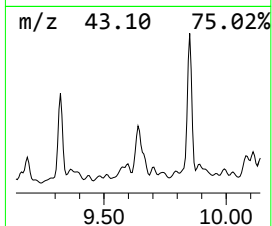
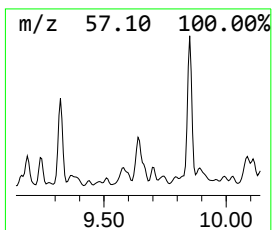
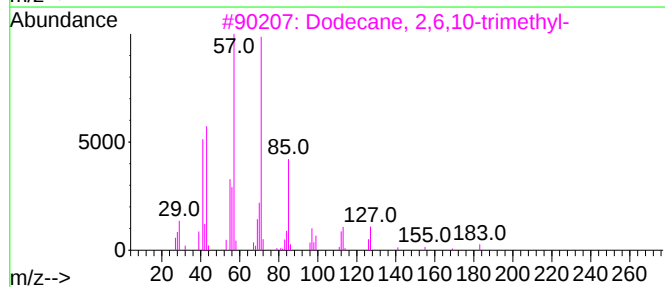
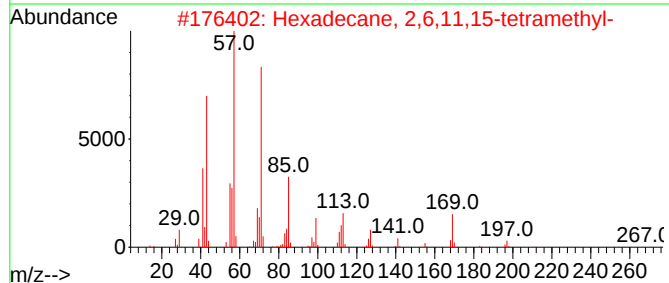
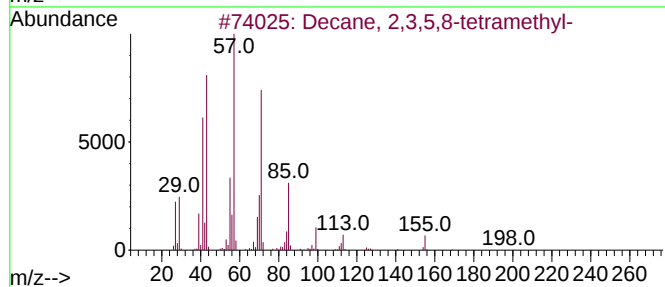
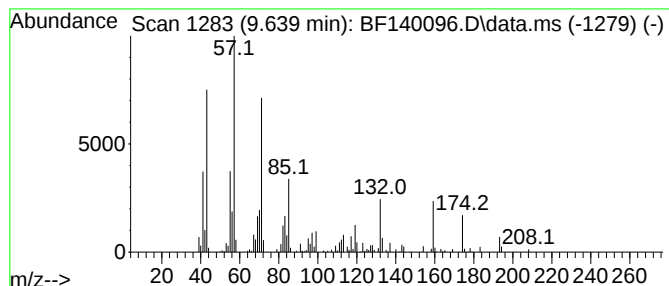
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 unknown9.639 Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.639 | 2.62 ng | 109170 | Acenaphthene-d10 | 9.922 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Decane, 2,3,5,8-tetramethyl-        | 198 | C14H30  | 192823-15-7 | 49   |
| 2    |    |   | Hexadecane, 2,6,11,15-tetramethyl-  | 282 | C20H42  | 000504-44-9 | 49   |
| 3    |    |   | Dodecane, 2,6,10-trimethyl-         | 212 | C15H32  | 003891-98-3 | 46   |
| 4    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44  | 054833-48-6 | 46   |
| 5    |    |   | Tetradecane, 1-iodo-                | 324 | C14H29I | 019218-94-1 | 46   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

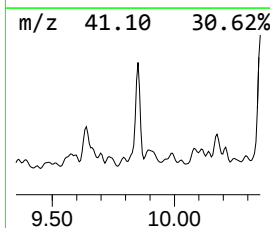
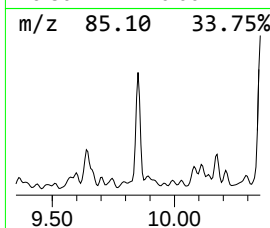
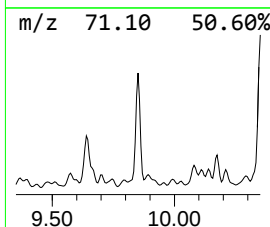
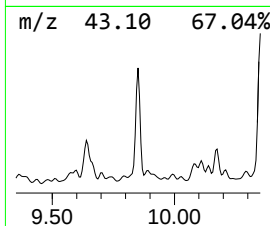
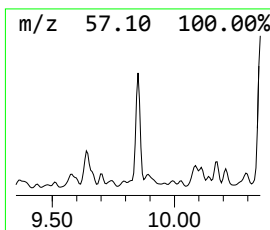
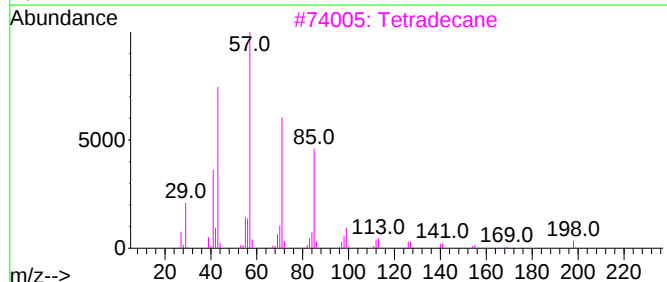
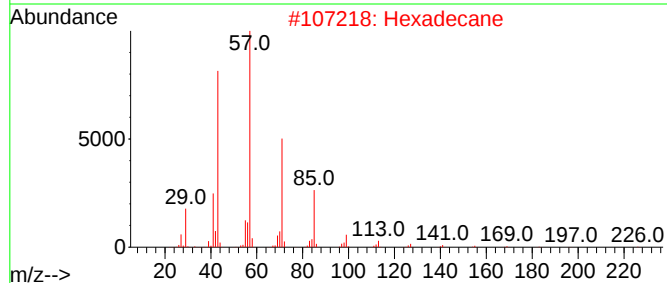
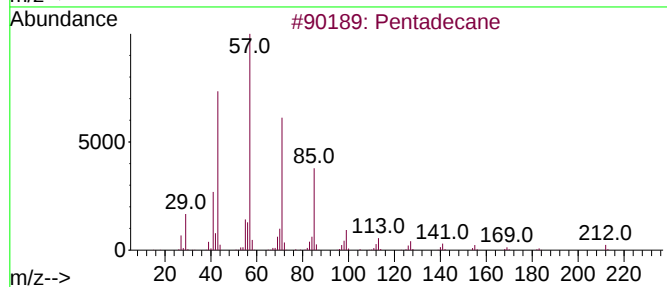
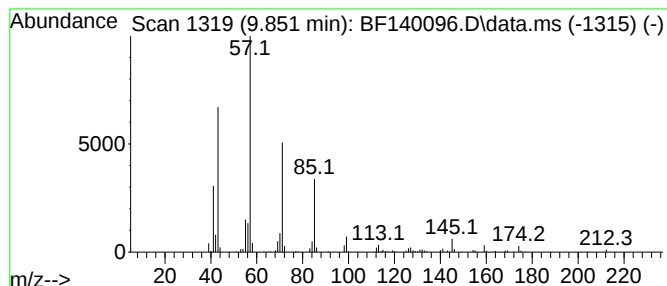
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Pentadecane Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.851 | 4.55 ng | 189300 | Acenaphthene-d10 | 9.922 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane       | 212 | C15H32  | 000629-62-9 | 93   |
| 2    |    |   | Hexadecane        | 226 | C16H34  | 000544-76-3 | 80   |
| 3    |    |   | Tetradecane       | 198 | C14H30  | 000629-59-4 | 80   |
| 4    |    |   | Tridecane         | 184 | C13H28  | 000629-50-5 | 80   |
| 5    |    |   | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

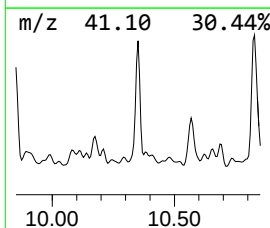
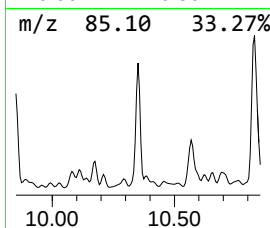
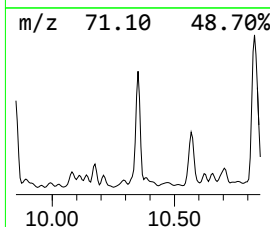
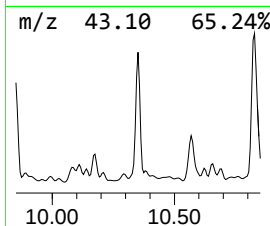
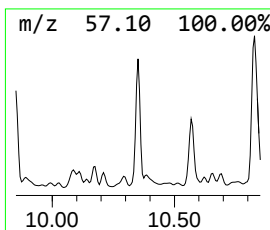
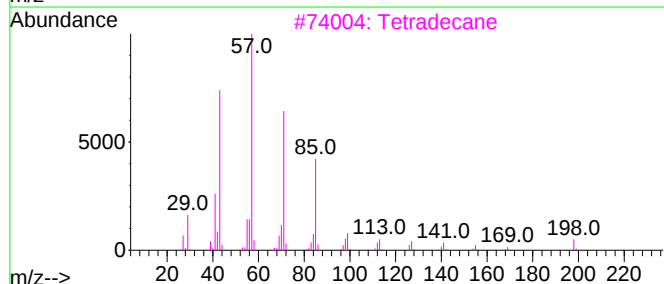
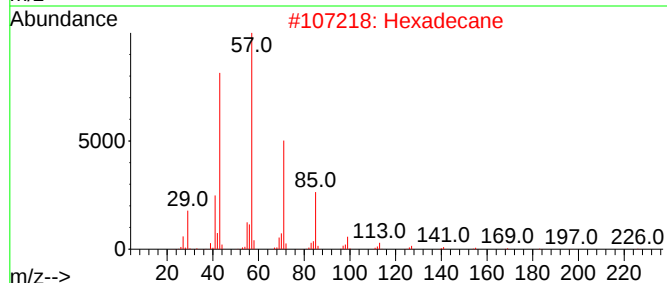
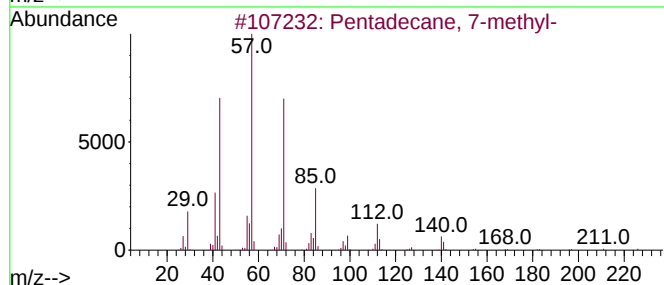
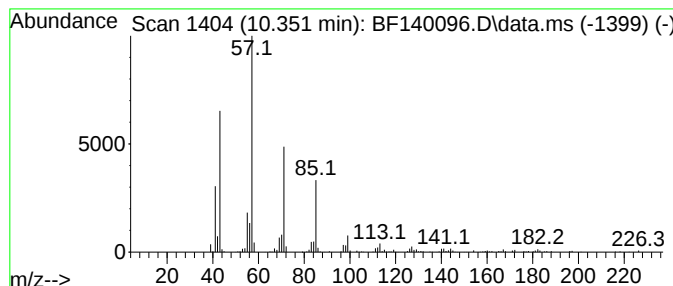
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Pentadecane, 7-methyl- Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.351 | 6.57 ng | 273340 | Acenaphthene-d10 | 9.922 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane, 7-methyl- | 226 | C16H34  | 006165-40-8 | 90   |
| 2    |    |   | Hexadecane             | 226 | C16H34  | 000544-76-3 | 87   |
| 3    |    |   | Tetradecane            | 198 | C14H30  | 000629-59-4 | 86   |
| 4    |    |   | Tridecane              | 184 | C13H28  | 000629-50-5 | 86   |
| 5    |    |   | Heneicosane            | 296 | C21H44  | 000629-94-7 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L

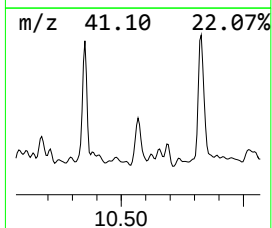
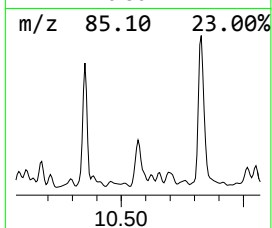
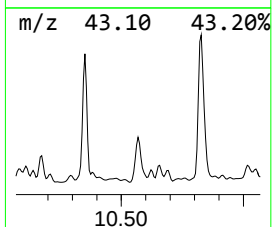
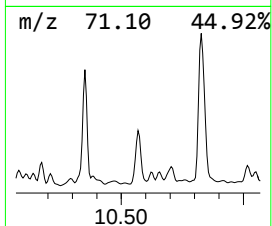
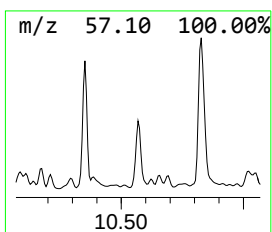
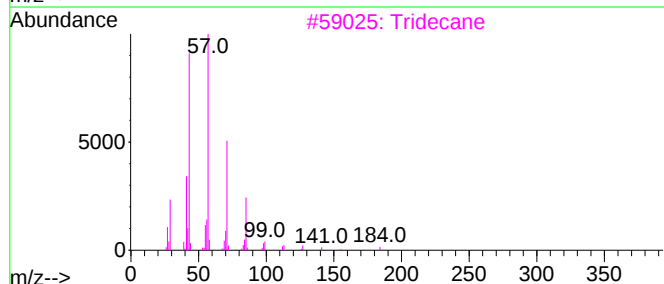
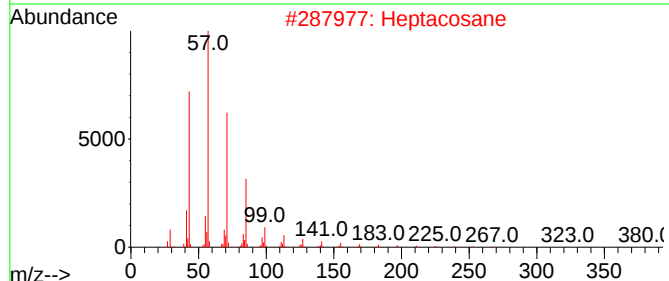
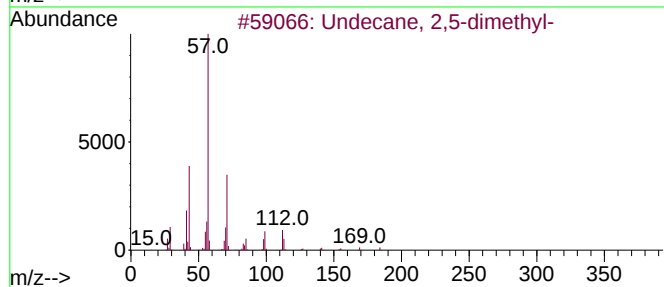
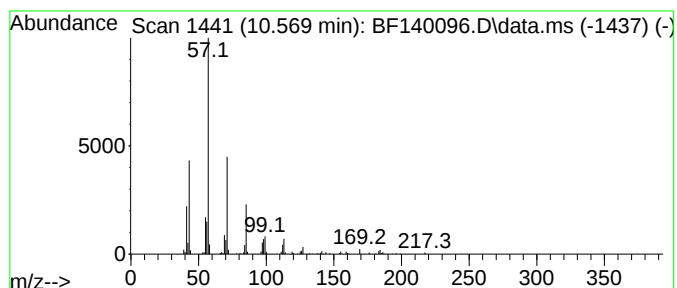
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Undecane, 2,5-dimethyl- Concentration Rank 12

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.569 | 3.50 ng | 145739 | Acenaphthene-d10 | 9.922 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Undecane, 2,5-dimethyl-        | 184 | C13H28  | 017301-22-3 | 89   |
| 2    |    |   | Heptacosane                    | 380 | C27H56  | 000593-49-7 | 86   |
| 3    |    |   | Tridecane                      | 184 | C13H28  | 000629-50-5 | 80   |
| 4    |    |   | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38  | 003892-00-0 | 80   |
| 5    |    |   | Decane, 2,6,8-trimethyl-       | 184 | C13H28  | 062108-26-3 | 74   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

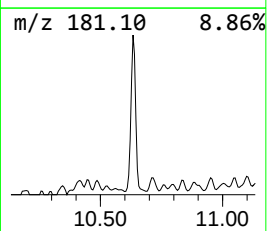
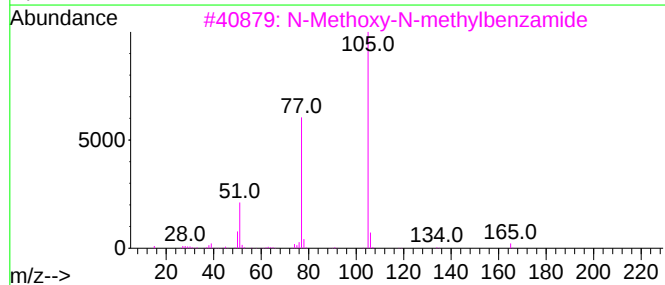
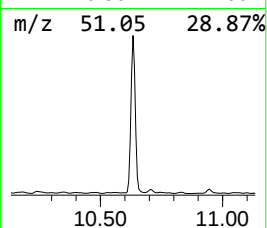
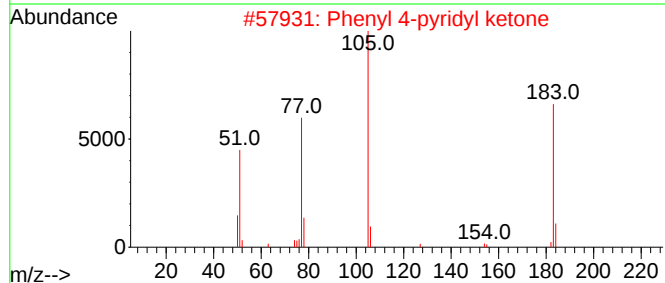
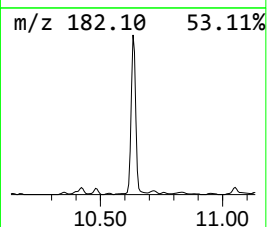
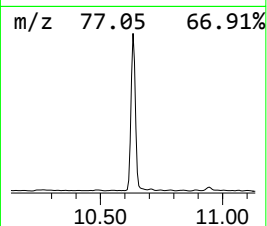
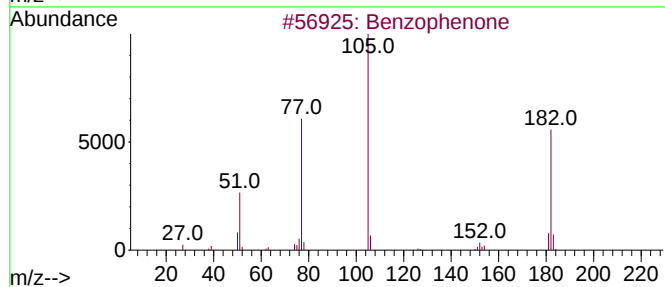
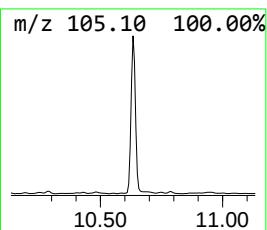
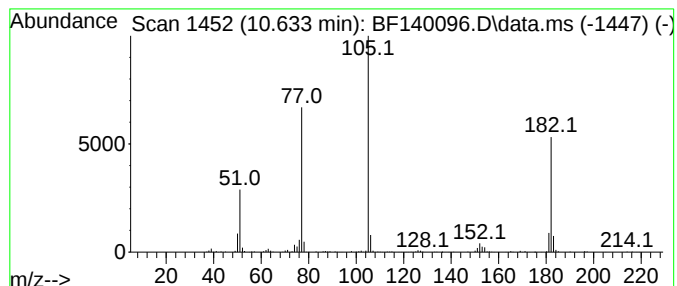
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Benzophenone Concentration Rank 2

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.633 | 9.72 ng | 404432 | Acenaphthene-d10 | 9.922 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|--------------|--------------|------|
| 1    |    |   | Benzophenone                        | 182 | C13H10O      | 000119-61-9  | 96   |
| 2    |    |   | Phenyl 4-pyridyl ketone             | 183 | C12H9NO      | 014548-46-0  | 52   |
| 3    |    |   | N-Methoxy-N-methylbenzamide         | 165 | C9H11NO2     | 006919-61-5  | 47   |
| 4    |    |   | Pentafluoroethyl phenyl ketone      | 224 | C9H5F5O      | 000394-52-5  | 47   |
| 5    |    |   | N-Methylbenzamide, N-chlorodiflu... | 247 | C10H8ClF2NO2 | 1000446-98-2 | 47   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

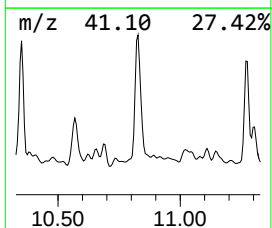
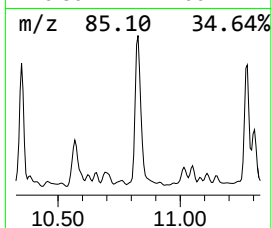
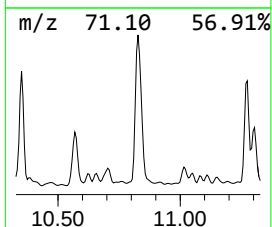
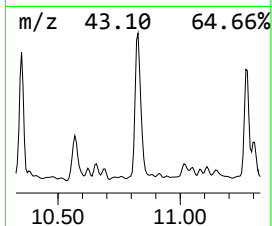
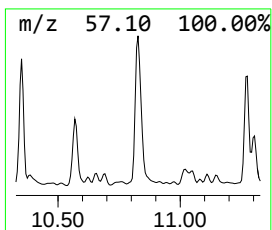
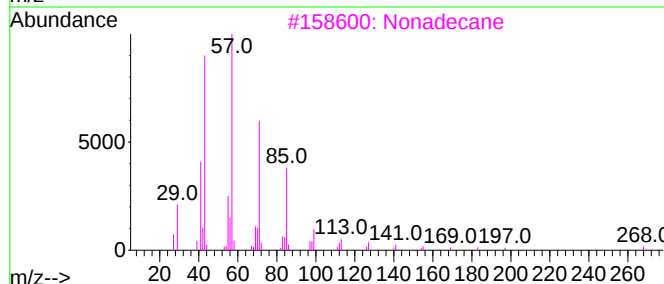
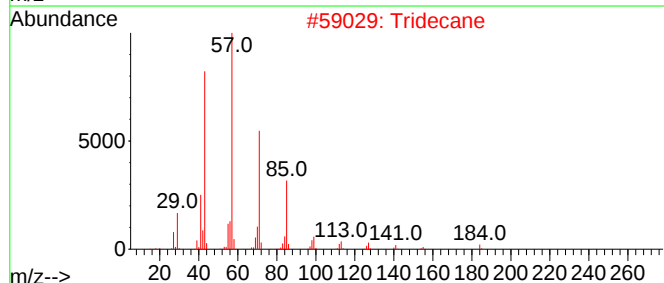
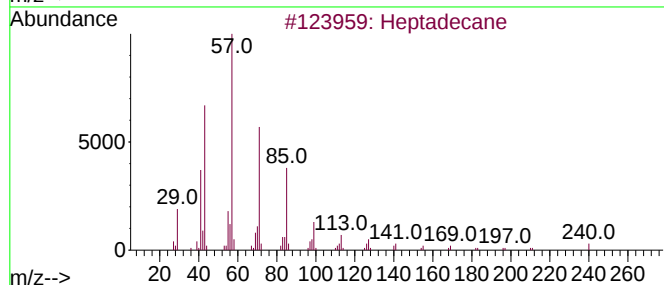
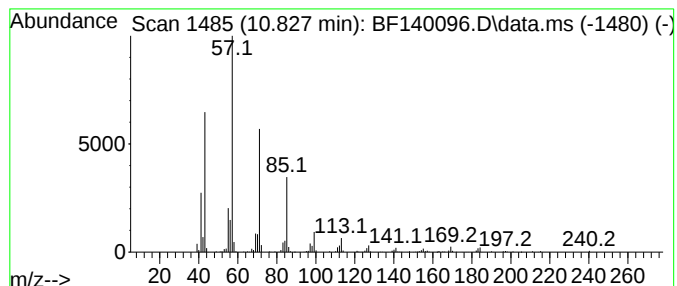
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Heptadecane Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 10.827 | 9.58 ng | 423021 | Phenanthrene-d10 | 11.410 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Heptadecane                  | 240 | C17H36  | 000629-78-7 | 93   |
| 2    |    |   | Tridecane                    | 184 | C13H28  | 000629-50-5 | 91   |
| 3    |    |   | Nonadecane                   | 268 | C19H40  | 000629-92-5 | 90   |
| 4    |    |   | Dodecane, 2-methyl-6-propyl- | 226 | C16H34  | 055045-08-4 | 86   |
| 5    |    |   | Hexadecane, 4-methyl-        | 240 | C17H36  | 025117-26-4 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

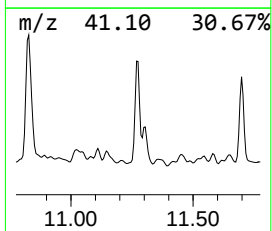
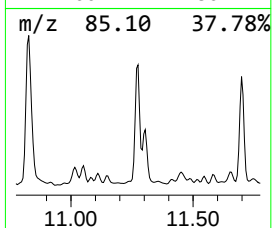
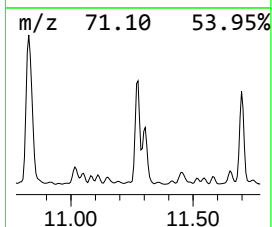
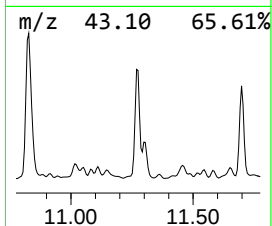
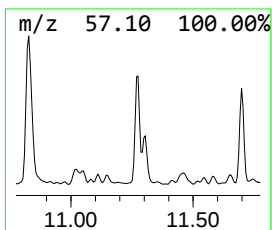
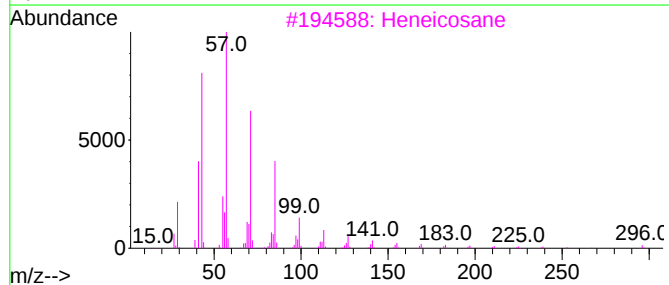
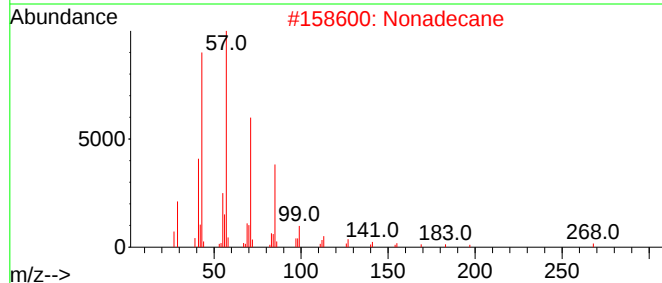
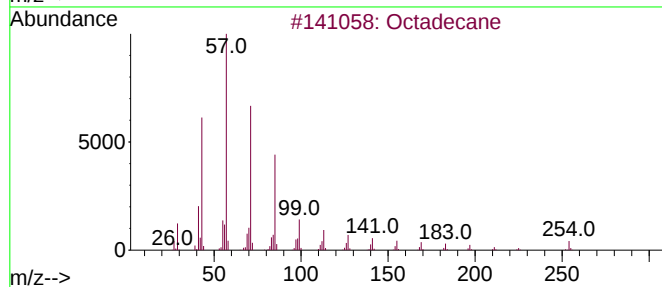
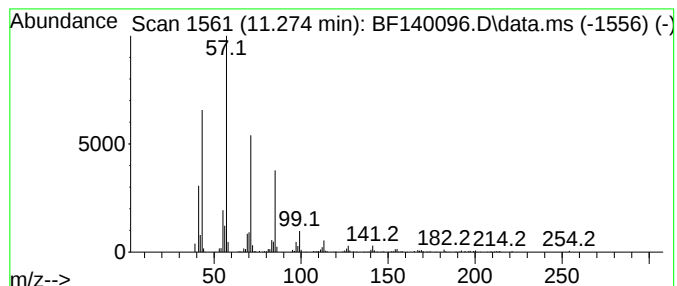
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Peak Number 12 Octadecane Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.275 | 5.70 ng | 251587 | Phenanthrene-d10 | 11.410 |

| Hit# | of 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------|-----|---------|-------------|------|
| 1    |      | Octadecane             | 254 | C18H38  | 000593-45-3 | 97   |
| 2    |      | Nonadecane             | 268 | C19H40  | 000629-92-5 | 91   |
| 3    |      | Heneicosane            | 296 | C21H44  | 000629-94-7 | 90   |
| 4    |      | Hexadecane             | 226 | C16H34  | 000544-76-3 | 90   |
| 5    |      | Pentadecane, 7-methyl- | 226 | C16H34  | 006165-40-8 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

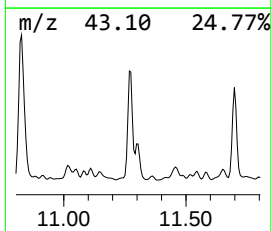
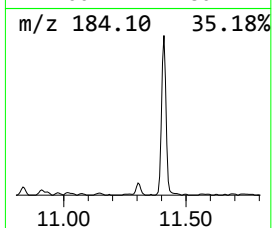
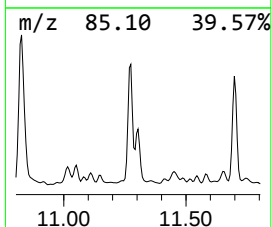
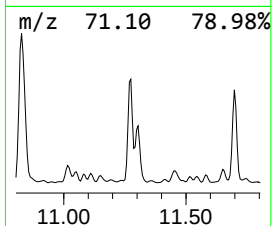
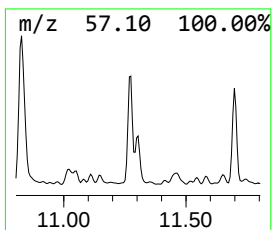
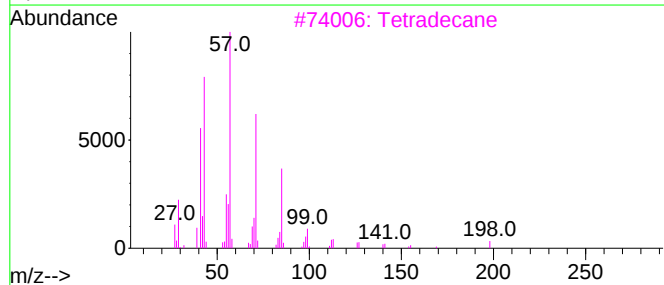
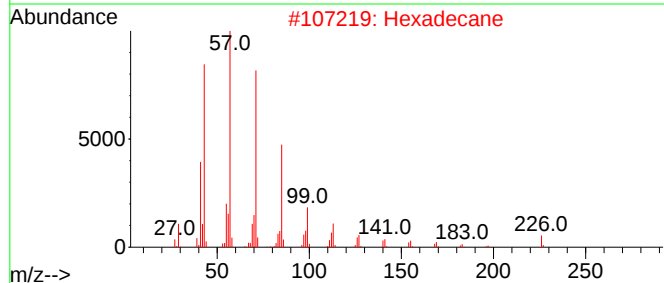
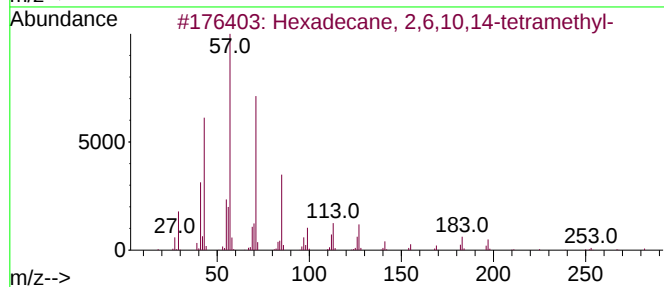
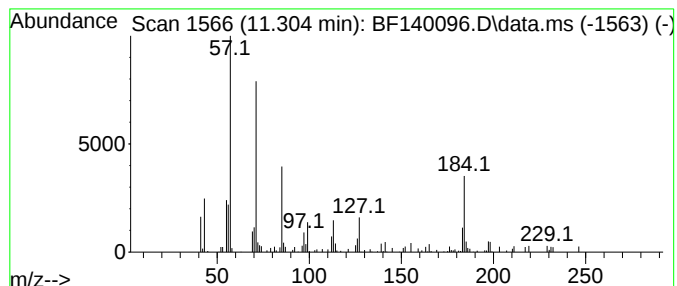
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Peak Number 13 Hexadecane, 2,6,10,14-tetra... Concentration Rank 14

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.304 | 3.10 ng | 136790 | Phenanthrene-d10 | 11.410 |

| Hit# | of 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|------|------------------------------------|-----|---------|-------------|------|
| 1    |      | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42  | 000638-36-8 | 80   |
| 2    |      | Hexadecane                         | 226 | C16H34  | 000544-76-3 | 64   |
| 3    |      | Tetradecane                        | 198 | C14H30  | 000629-59-4 | 62   |
| 4    |      | Octacosane                         | 394 | C28H58  | 000630-02-4 | 59   |
| 5    |      | Heneicosane                        | 296 | C21H44  | 000629-94-7 | 59   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

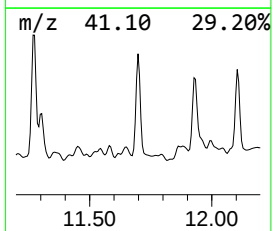
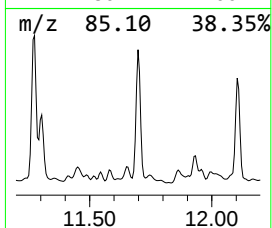
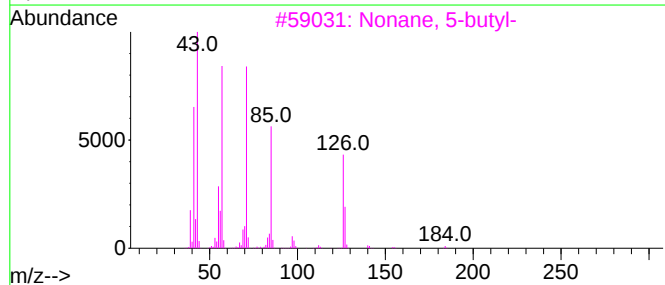
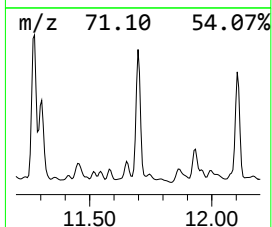
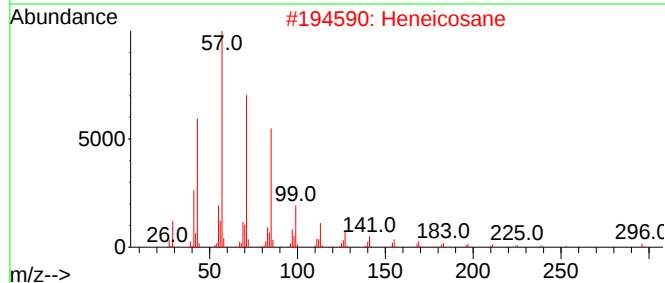
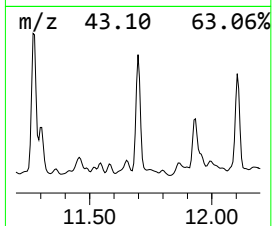
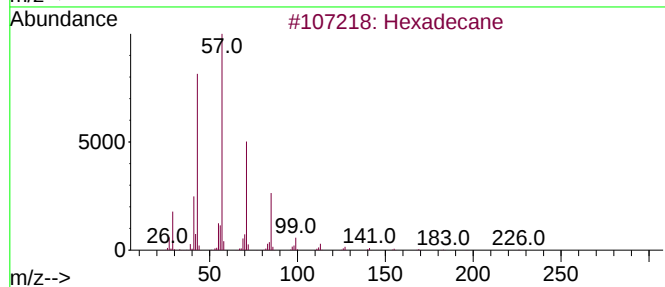
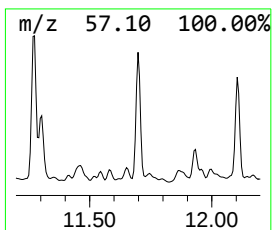
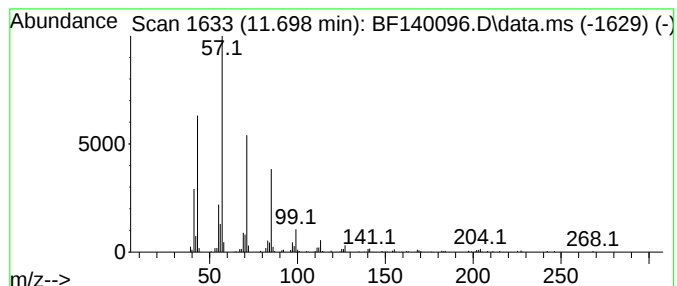
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Peak Number 14 Hexadecane Concentration Rank 10

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.698 | 4.50 ng | 198525 | Phenanthrene-d10 | 11.410 |

| Hit# | of 5 | Tentative ID     | MW  | MolForm | CAS#        | Qual |
|------|------|------------------|-----|---------|-------------|------|
| 1    |      | Hexadecane       | 226 | C16H34  | 000544-76-3 | 90   |
| 2    |      | Heneicosane      | 296 | C21H44  | 000629-94-7 | 90   |
| 3    |      | Nonane, 5-butyl- | 184 | C13H28  | 017312-63-9 | 89   |
| 4    |      | Heptacosane      | 380 | C27H56  | 000593-49-7 | 87   |
| 5    |      | Dodecane         | 170 | C12H26  | 000112-40-3 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

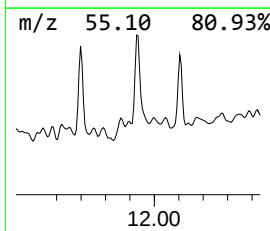
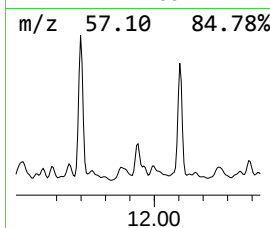
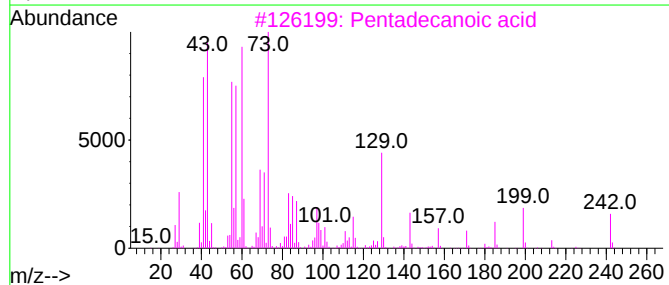
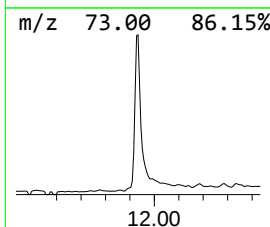
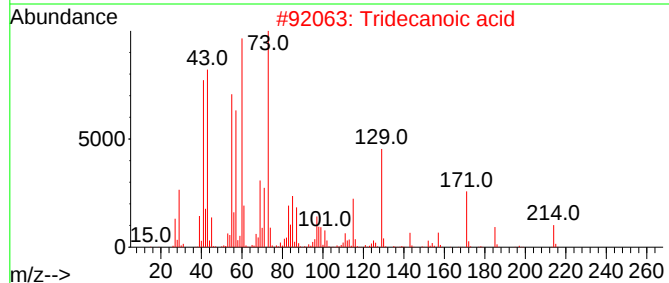
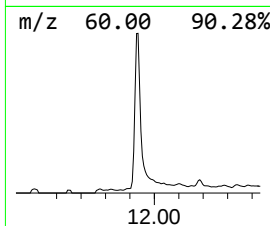
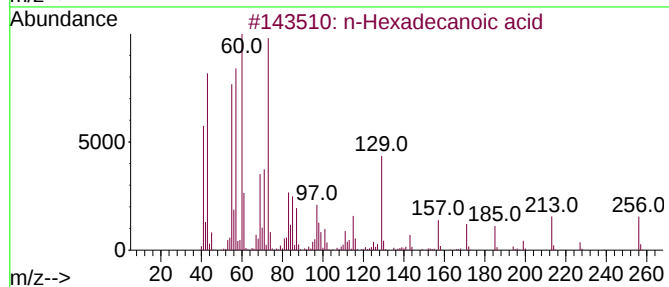
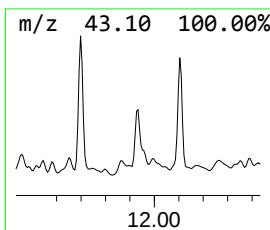
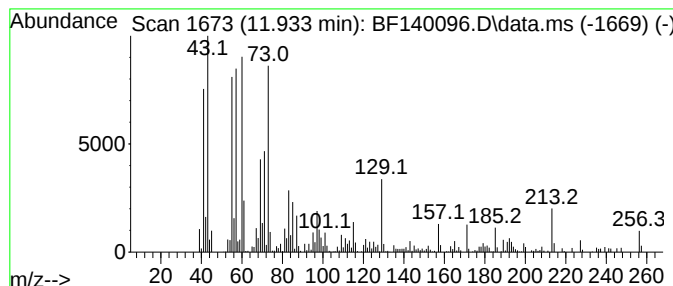
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 15 n-Hexadecanoic acid Concentration Rank 8

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 11.933    | 4.70 ng             | 207410 | Phenanthrene-d10 | 11.410      |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 98   |
| 2         | Tridecanoic acid    | 214    | C13H26O2         | 000638-53-9 | 93   |
| 3         | Pentadecanoic acid  | 242    | C15H30O2         | 001002-84-2 | 68   |
| 4         | Dodecanoic acid     | 200    | C12H24O2         | 000143-07-7 | 64   |
| 5         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

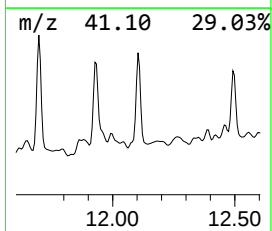
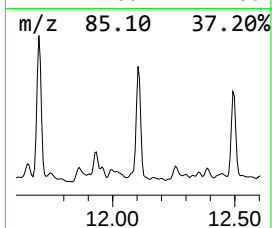
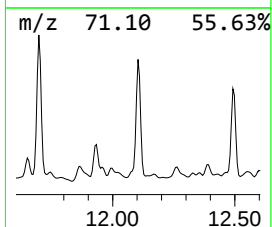
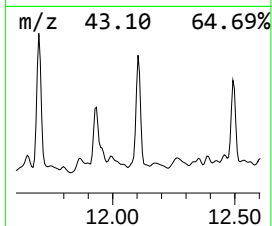
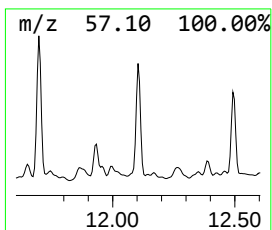
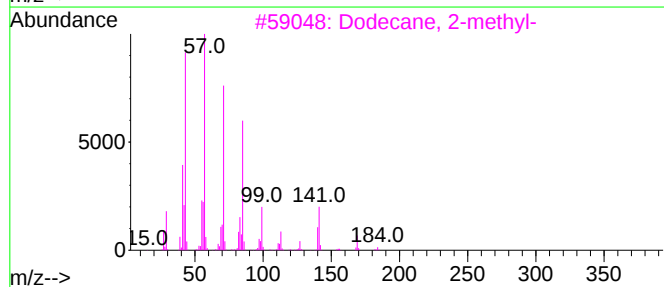
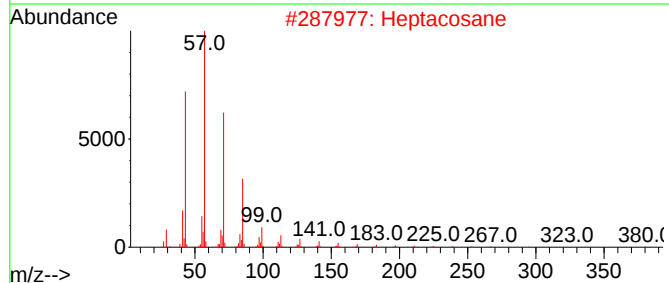
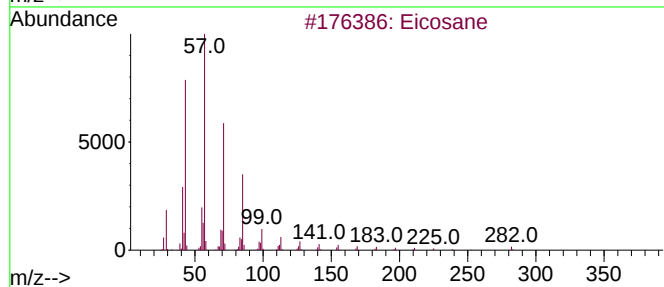
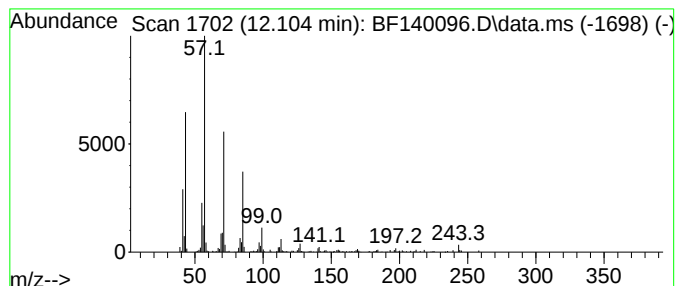
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Eicosane Concentration Rank 11

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.104 | 3.85 ng | 169992 | Phenanthrene-d10 | 11.410 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Eicosane               | 282 | C20H42  | 000112-95-8 | 91   |
| 2    |    |   | Heptacosane            | 380 | C27H56  | 000593-49-7 | 91   |
| 3    |    |   | Dodecane, 2-methyl-    | 184 | C13H28  | 001560-97-0 | 90   |
| 4    |    |   | Tetradecane, 4-methyl- | 212 | C15H32  | 025117-24-2 | 90   |
| 5    |    |   | Heneicosane            | 296 | C21H44  | 000629-94-7 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

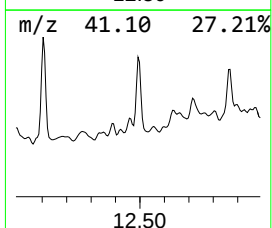
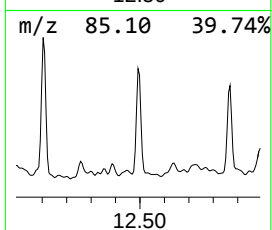
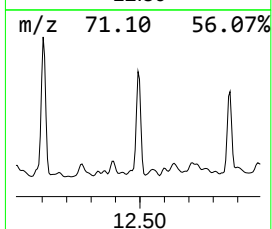
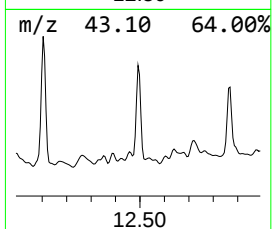
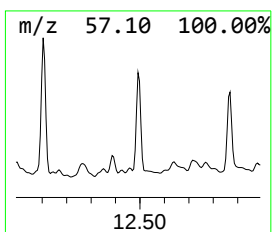
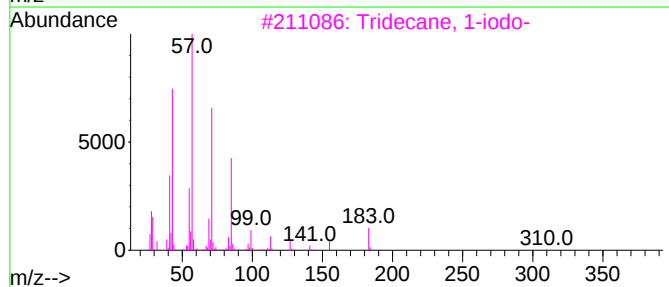
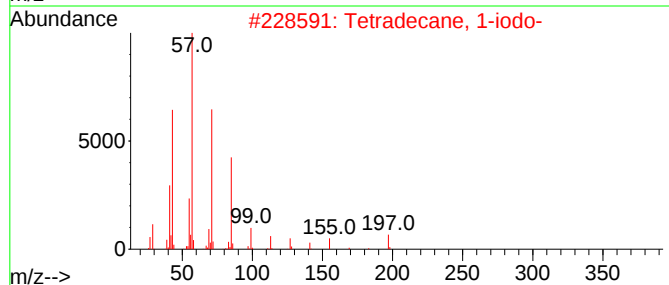
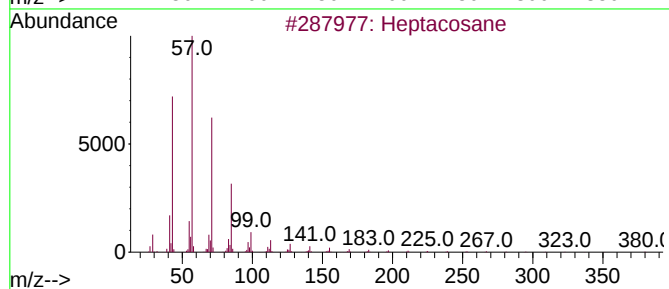
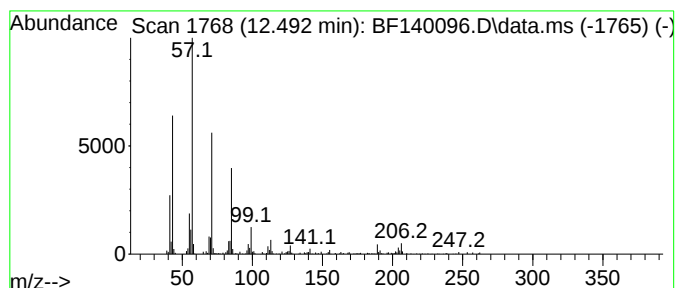
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Heptacosane Concentration Rank 13

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.492 | 3.15 ng | 139080 | Phenanthrene-d10 | 11.410 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Heptacosane          | 380 | C27H56  | 000593-49-7 | 90   |
| 2    |    |   | Tetradecane, 1-iodo- | 324 | C14H29I | 019218-94-1 | 80   |
| 3    |    |   | Tridecane, 1-iodo-   | 310 | C13H27I | 035599-77-0 | 80   |
| 4    |    |   | Docosane             | 310 | C22H46  | 000629-97-0 | 80   |
| 5    |    |   | Tetracosane          | 338 | C24H50  | 000646-31-1 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

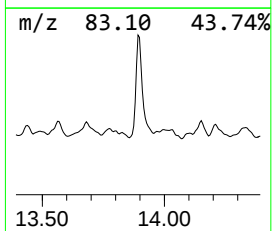
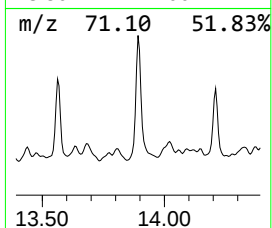
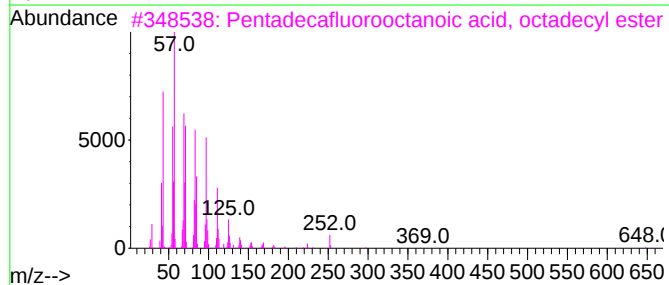
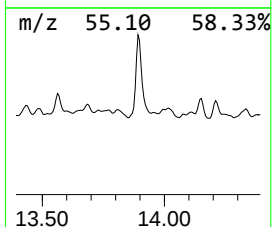
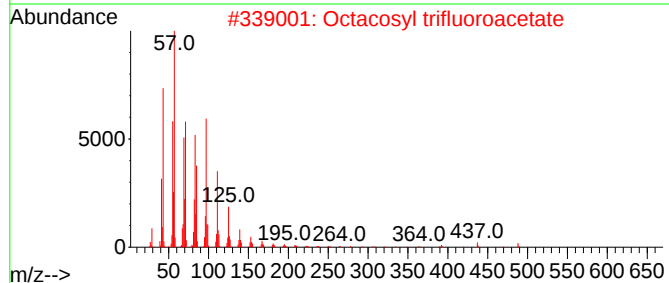
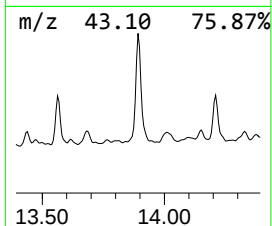
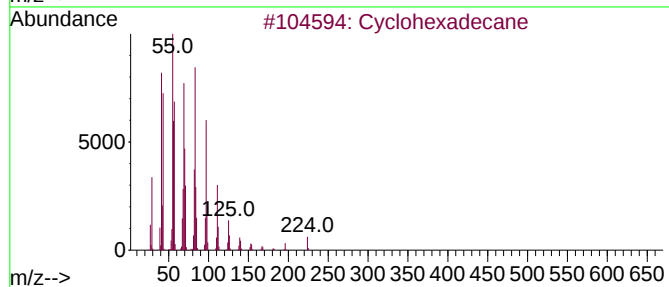
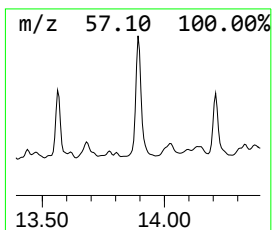
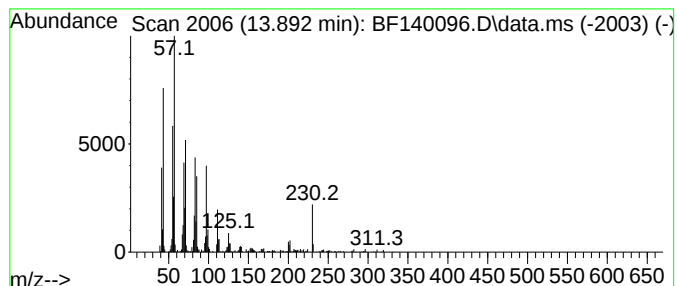
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 18 Cyclohexadecane Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.892    | 6.70 ng                             | 290124 | Chrysene-d12     | 14.045       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Cyclohexadecane                     | 224    | C16H32           | 000295-65-8  | 92   |
| 2         | Octacosyl trifluoroacetate          | 506    | C30H57F3O2       | 1000351-74-9 | 90   |
| 3         | Pentadecafluorooctanoic acid, oc... | 666    | C26H37F15O2      | 1000406-04-8 | 90   |
| 4         | 17-Pentatriacontene                 | 491    | C35H70           | 006971-40-0  | 87   |
| 5         | 10-Heneicosene (c,t)                | 294    | C21H42           | 095008-11-0  | 83   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

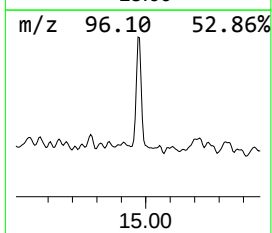
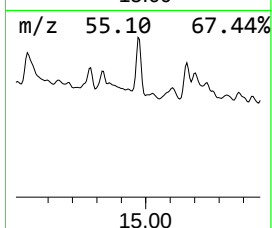
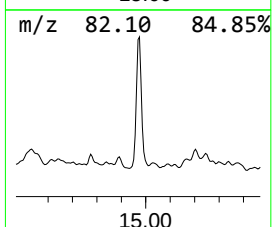
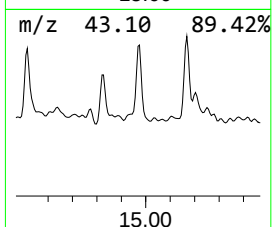
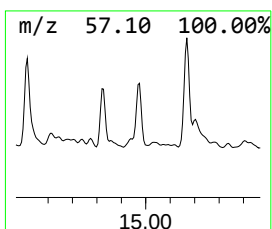
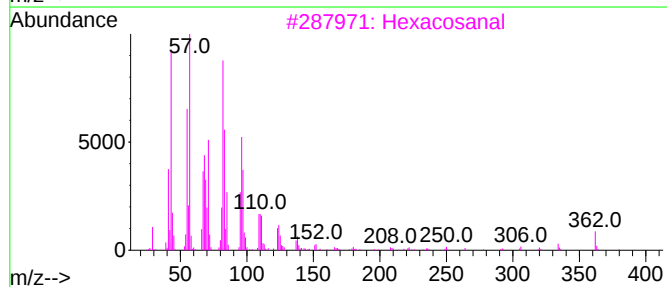
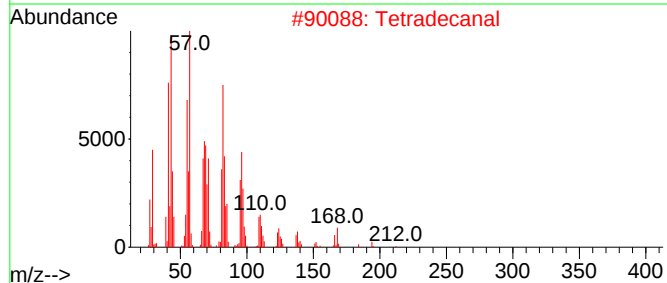
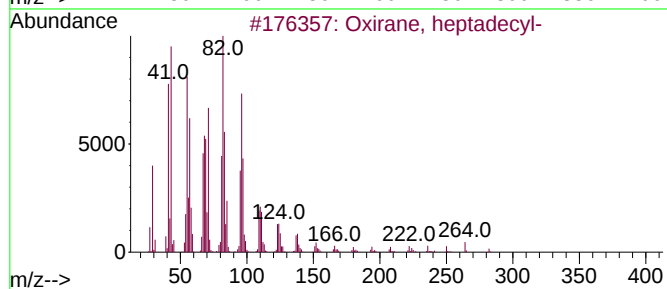
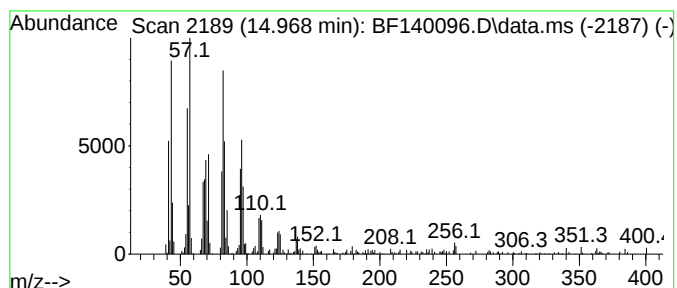
Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.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 19 Oxirane, heptadecyl- Concentration Rank 7

| R.T.      | EstConc              | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|----------------------|--------|------------------|---------|-------------|------|
| 14.968    | 5.06 ng              | 140669 | Perylene-d12     |         | 15.527      |      |
| Hit# of 5 | Tentative ID         |        | MW               | MolForm | CAS#        | Qual |
| 1         | Oxirane, heptadecyl- |        | 282              | C19H38O | 067860-04-2 | 95   |
| 2         | Tetradecanal         |        | 212              | C14H28O | 000124-25-4 | 91   |
| 3         | Hexacosanal          |        | 380              | C26H52O | 026627-85-0 | 91   |
| 4         | Oxirane, hexadecyl-  |        | 268              | C18H36O | 007390-81-0 | 91   |
| 5         | Octadecanal          |        | 268              | C18H36O | 000638-66-4 | 83   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102824\  
Data File : BF140096.D  
Acq On : 28 Oct 2024 19:27  
Operator : RC/JU  
Sample : P4577-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TR-05-102524

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| Butane, 2-metho... | 2.175  | 45.9    | ng    | 1624080  | 1                     | 6.886  | 707026  | 20.0 |
| Pentanedioic ac... | 7.698  | 2.4     | ng    | 119649   | 2                     | 8.169  | 1003060 | 20.0 |
| Naphthalene, 1,... | 8.992  | 2.2     | ng    | 108722   | 2                     | 8.169  | 1003060 | 20.0 |
| Tridecane, 6-me... | 9.322  | 3.0     | ng    | 124910   | 3                     | 9.922  | 831797  | 20.0 |
| Naphthalene, 2,... | 9.575  | 2.6     | ng    | 107891   | 3                     | 9.922  | 831797  | 20.0 |
| unknown9.639       | 9.639  | 2.6     | ng    | 109170   | 3                     | 9.922  | 831797  | 20.0 |
| Pentadecane        | 9.851  | 4.5     | ng    | 189300   | 3                     | 9.922  | 831797  | 20.0 |
| Pentadecane, 7-... | 10.351 | 6.6     | ng    | 273340   | 3                     | 9.922  | 831797  | 20.0 |
| Undecane, 2,5-d... | 10.569 | 3.5     | ng    | 145739   | 3                     | 9.922  | 831797  | 20.0 |
| Benzophenone       | 10.633 | 9.7     | ng    | 404432   | 3                     | 9.922  | 831797  | 20.0 |
| Heptadecane        | 10.827 | 9.6     | ng    | 423021   | 4                     | 11.410 | 882777  | 20.0 |
| Octadecane         | 11.275 | 5.7     | ng    | 251587   | 4                     | 11.410 | 882777  | 20.0 |
| Hexadecane, 2,6... | 11.304 | 3.1     | ng    | 136790   | 4                     | 11.410 | 882777  | 20.0 |
| Hexadecane         | 11.698 | 4.5     | ng    | 198525   | 4                     | 11.410 | 882777  | 20.0 |
| n-Hexadecanoic ... | 11.933 | 4.7     | ng    | 207410   | 4                     | 11.410 | 882777  | 20.0 |
| Eicosane           | 12.104 | 3.9     | ng    | 169992   | 4                     | 11.410 | 882777  | 20.0 |
| Heptacosane        | 12.492 | 3.1     | ng    | 139080   | 4                     | 11.410 | 882777  | 20.0 |
| Cyclohexadecane    | 13.892 | 6.7     | ng    | 290124   | 5                     | 14.045 | 866501  | 20.0 |
| Oxirane, heptad... | 14.968 | 5.1     | ng    | 140669   | 6                     | 15.527 | 556260  | 20.0 |