

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051724\  
 Data File : BF137935.D  
 Acq On : 17 May 2024 16:48  
 Operator : CG\JU  
 Sample : P2513-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-13

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-BF051424.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF137935.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         | 2.169       | 9             | 14          | 20           | rVB3     | 38124          | 75630         | 2.65%           | 0.317%        |
| 2         | 2.387       | 44            | 51          | 58           | rVB      | 1394340        | 1867794       | 65.38%          | 7.817%        |
| 3         | 3.669       | 263           | 269         | 279          | rBV      | 19841          | 47636         | 1.67%           | 0.199%        |
| 4         | 5.663       | 603           | 608         | 611          | rBV      | 2363943        | 2149527       | 75.24%          | 8.996%        |
| 5         | 6.651       | 771           | 776         | 779          | rBV      | 2167211        | 2151551       | 75.31%          | 9.004%        |
| 6         | 7.040       | 838           | 842         | 845          | rBV      | 953726         | 720740        | 25.23%          | 3.016%        |
| 7         | 7.598       | 933           | 937         | 940          | rBV      | 1587759        | 1378788       | 48.26%          | 5.770%        |
| 8         | 7.840       | 975           | 978         | 981          | rBV      | 58978          | 41378         | 1.45%           | 0.173%        |
| 9         | 8.322       | 1056          | 1060        | 1063         | rBV      | 1243238        | 971791        | 34.01%          | 4.067%        |
| 10        | 8.622       | 1108          | 1111        | 1118         | rBV      | 48856          | 48406         | 1.69%           | 0.203%        |
| 11        | 9.398       | 1238          | 1243        | 1246         | rBV      | 3399412        | 2857038       | 100.00%         | 11.957%       |
| 12        | 10.081      | 1355          | 1359        | 1363         | rBV      | 1333037        | 1133709       | 39.68%          | 4.745%        |
| 13        | 10.116      | 1363          | 1365        | 1368         | rVB      | 42488          | 32738         | 1.15%           | 0.137%        |
| 14        | 10.163      | 1368          | 1373        | 1380         | rVB2     | 53750          | 74205         | 2.60%           | 0.311%        |
| 15        | 10.875      | 1489          | 1494        | 1497         | rBV      | 1914540        | 1725235       | 60.39%          | 7.220%        |
| 16        | 11.575      | 1609          | 1613        | 1616         | rBV      | 1330917        | 1167926       | 40.88%          | 4.888%        |
| 17        | 11.598      | 1616          | 1617        | 1621         | rVB      | 332215         | 203021        | 7.11%           | 0.850%        |
| 18        | 11.651      | 1621          | 1626        | 1628         | rBV      | 79652          | 70337         | 2.46%           | 0.294%        |
| 19        | 11.804      | 1648          | 1652        | 1658         | rBV3     | 26785          | 39599         | 1.39%           | 0.166%        |
| 20        | 12.080      | 1695          | 1699        | 1701         | rBV2     | 212647         | 202053        | 7.07%           | 0.846%        |
| 21        | 12.104      | 1701          | 1703        | 1708         | rVV2     | 93278          | 92229         | 3.23%           | 0.386%        |
| 22        | 12.151      | 1708          | 1711        | 1714         | rVV      | 47890          | 47607         | 1.67%           | 0.199%        |
| 23        | 12.192      | 1714          | 1718        | 1720         | rVV2     | 115278         | 133703        | 4.68%           | 0.560%        |
| 24        | 12.210      | 1720          | 1721        | 1724         | rVB      | 44148          | 35852         | 1.25%           | 0.150%        |
| 25        | 12.375      | 1745          | 1749        | 1751         | rBV      | 47580          | 44127         | 1.54%           | 0.185%        |
| 26        | 12.627      | 1788          | 1792        | 1795         | rBV      | 72484          | 76570         | 2.68%           | 0.320%        |
| 27        | 12.716      | 1804          | 1807        | 1816         | rBV3     | 34192          | 54392         | 1.90%           | 0.228%        |
| 28        | 12.792      | 1816          | 1820        | 1824         | rBV      | 485151         | 394436        | 13.81%          | 1.651%        |
| 29        | 12.869      | 1829          | 1833        | 1834         | rBV3     | 28270          | 35502         | 1.24%           | 0.149%        |
| 30        | 13.027      | 1853          | 1860        | 1865         | rBV      | 397499         | 472266        | 16.53%          | 1.976%        |
| 31        | 13.163      | 1879          | 1883        | 1886         | rBV      | 2908371        | 2392761       | 83.75%          | 10.014%       |
| 32        | 13.239      | 1892          | 1896        | 1900         | rBV2     | 42601          | 66393         | 2.32%           | 0.278%        |
| 33        | 13.351      | 1912          | 1915        | 1917         | rVB      | 73541          | 64116         | 2.24%           | 0.268%        |
| 34        | 13.416      | 1924          | 1926        | 1929         | rBV      | 49107          | 40419         | 1.41%           | 0.169%        |
| 35        | 13.457      | 1929          | 1933        | 1936         | rVB2     | 54898          | 49505         | 1.73%           | 0.207%        |
| 36        | 13.580      | 1951          | 1954        | 1957         | rBV      | 39127          | 35083         | 1.23%           | 0.147%        |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051724\  
Data File : BF137935.D  
Acq On : 17 May 2024 16:48  
Operator : CG\JU  
Sample : P2513-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-13

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-BF051424.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 37 | 13.857 | 1999 | 2001 | 2006 | rVB  | 33729  | 37865  | 1.33%  | 0.158% |
| 38 | 13.974 | 2016 | 2021 | 2023 | rBV3 | 33618  | 49296  | 1.73%  | 0.206% |
| 39 | 14.051 | 2031 | 2034 | 2045 | rVB4 | 92885  | 189639 | 6.64%  | 0.794% |
| 40 | 14.227 | 2059 | 2064 | 2066 | rBV2 | 825582 | 925300 | 32.39% | 3.872% |
| 41 | 14.251 | 2066 | 2068 | 2076 | rVB  | 173887 | 156375 | 5.47%  | 0.654% |
| 42 | 14.610 | 2127 | 2129 | 2133 | rVB  | 49170  | 44438  | 1.56%  | 0.186% |
| 43 | 15.315 | 2244 | 2249 | 2252 | rBV  | 113367 | 185050 | 6.48%  | 0.774% |
| 44 | 15.645 | 2302 | 2305 | 2312 | rVB  | 79627  | 106654 | 3.73%  | 0.446% |
| 45 | 15.715 | 2313 | 2317 | 2324 | rVB  | 116713 | 150212 | 5.26%  | 0.629% |
| 46 | 15.786 | 2324 | 2329 | 2333 | rBV  | 693882 | 874727 | 30.62% | 3.661% |
| 47 | 17.398 | 2598 | 2603 | 2616 | rVB2 | 53108  | 114065 | 3.99%  | 0.477% |
| 48 | 17.892 | 2682 | 2687 | 2693 | rVB  | 33651  | 67124  | 2.35%  | 0.281% |

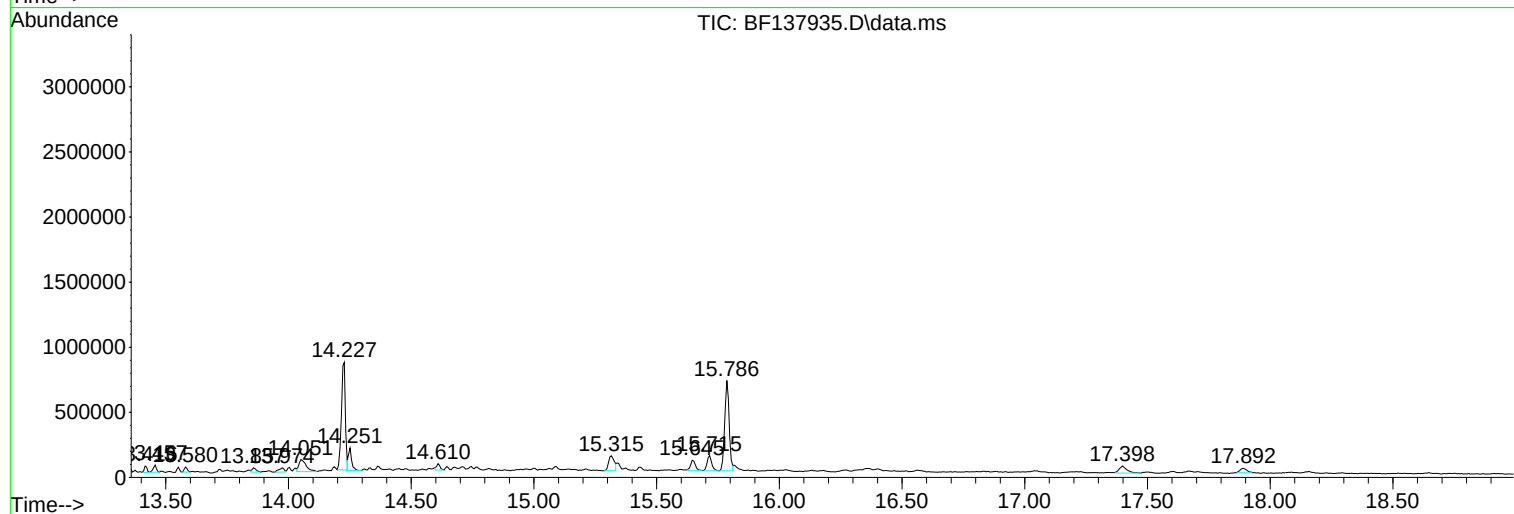
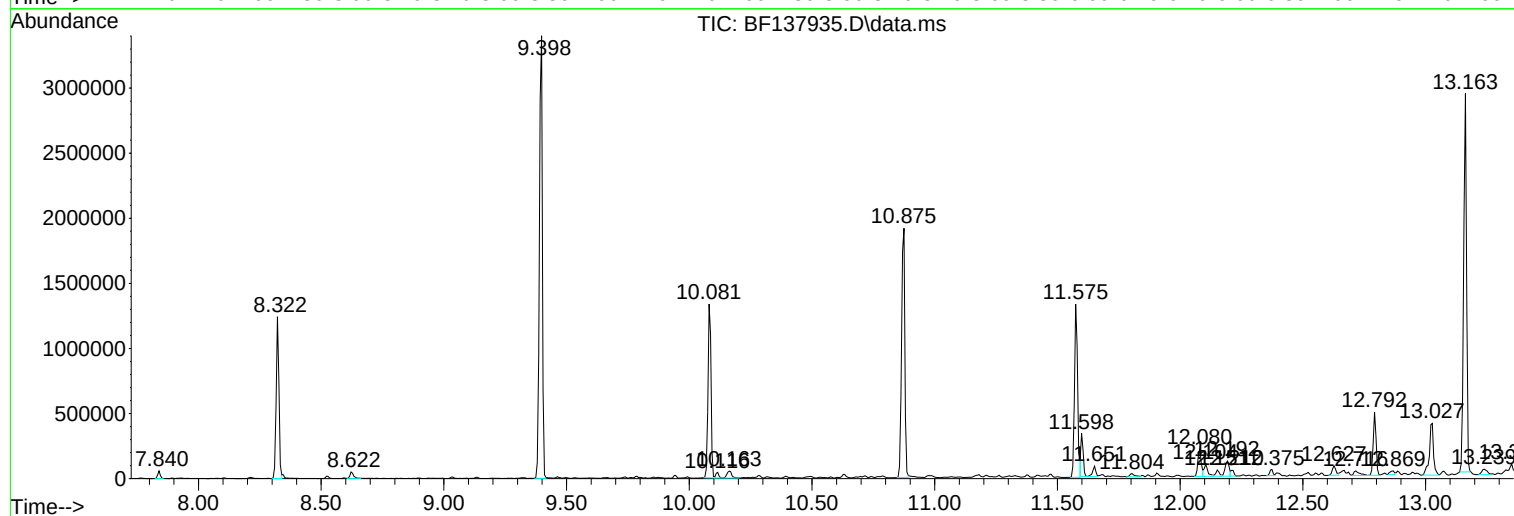
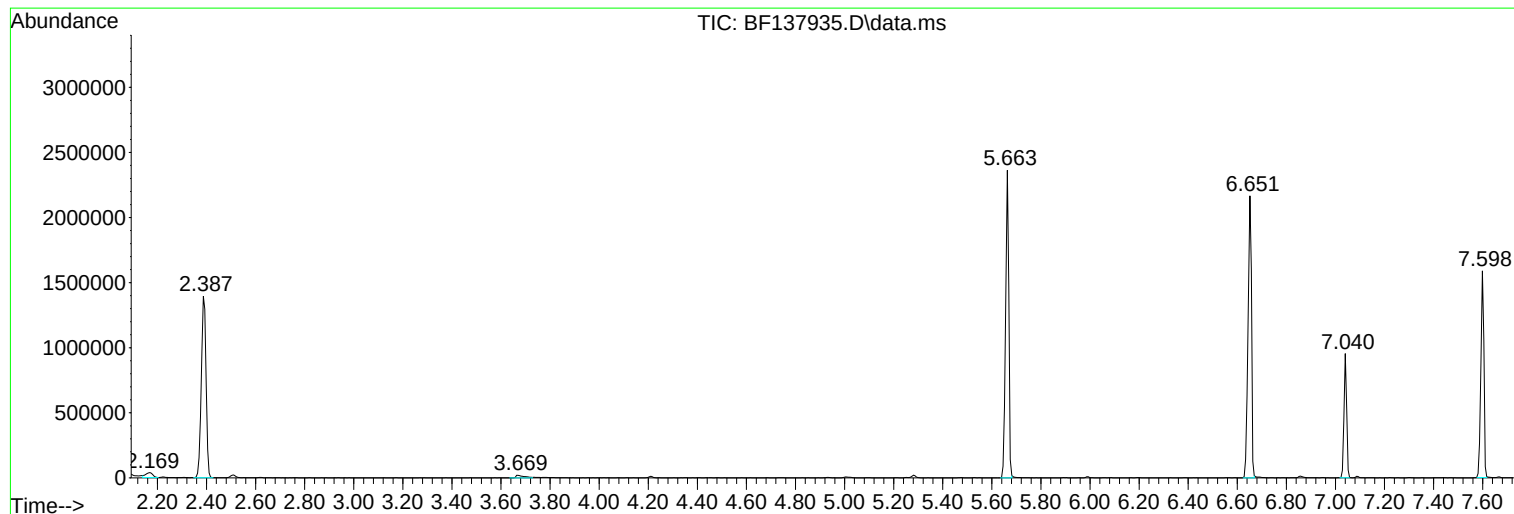
Sum of corrected areas: 23894808

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051724\  
Data File : BF137935.D  
Acq On : 17 May 2024 16:48  
Operator : CG\JU  
Sample : P2513-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-13

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.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\BF051724\  
Data File : BF137935.D  
Acq On : 17 May 2024 16:48  
Operator : CG\JU  
Sample : P2513-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-13

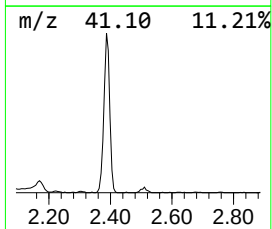
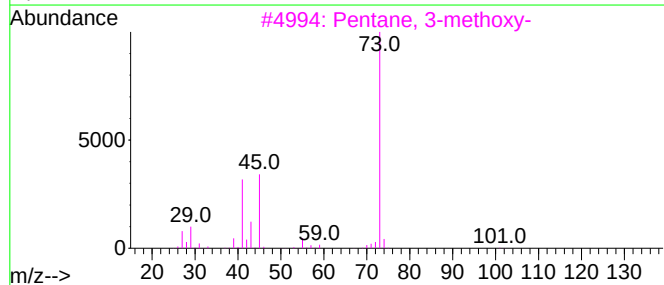
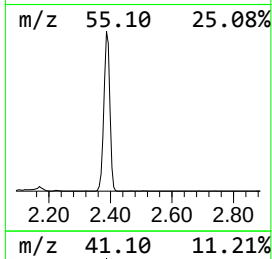
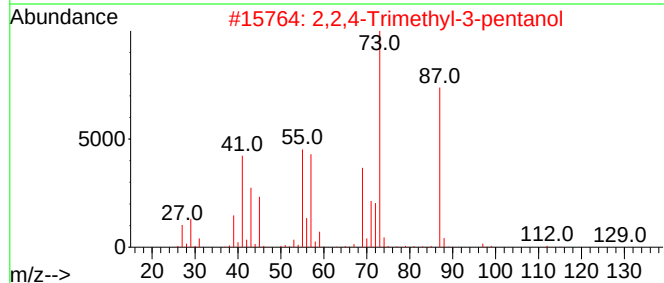
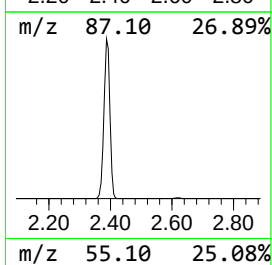
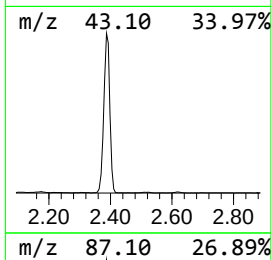
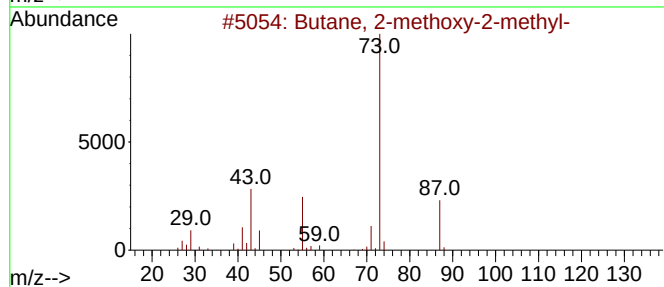
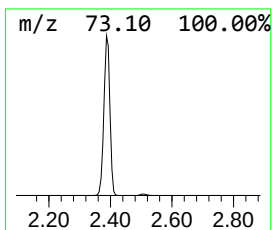
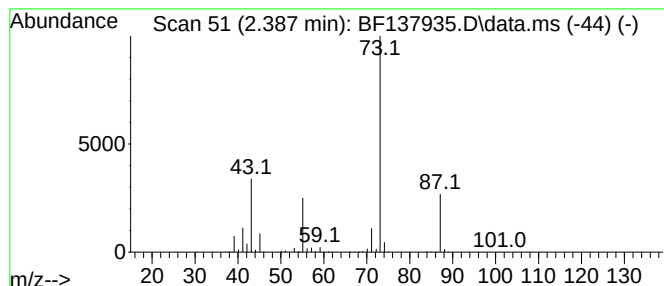
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.  | EstConc  | Area    | Relative to ISTD       | R.T.  |
|-------|----------|---------|------------------------|-------|
| 2.387 | 51.83 ng | 1867790 | 1,4-Dichlorobenzene-d4 | 7.040 |

| Hit# | of 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------------|-----|---------|-------------|------|
| 1    |      | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 2    |      | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 39   |
| 3    |      | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 23   |
| 4    |      | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 17   |
| 5    |      | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 9    |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051724\  
Data File : BF137935.D  
Acq On : 17 May 2024 16:48  
Operator : CG\JU  
Sample : P2513-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-13

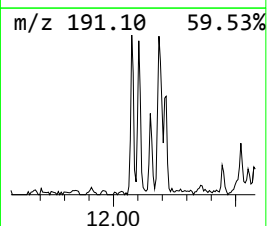
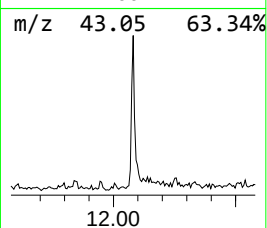
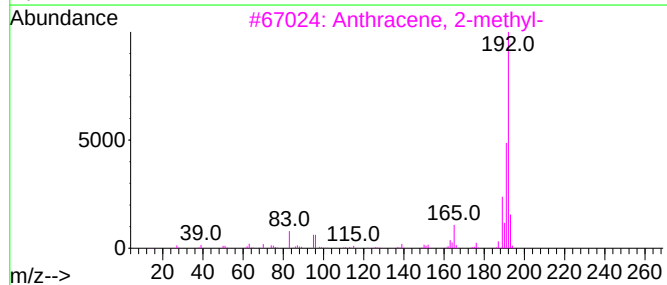
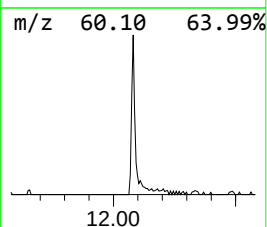
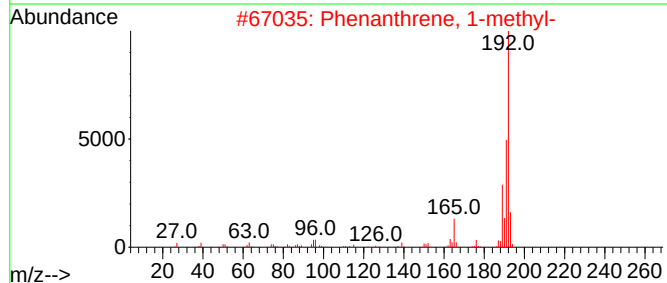
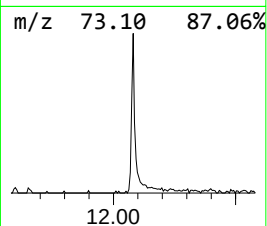
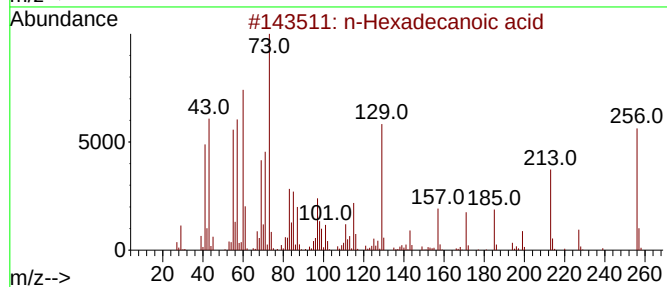
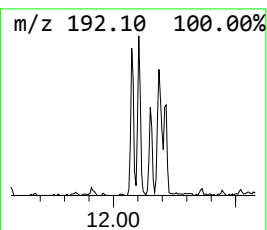
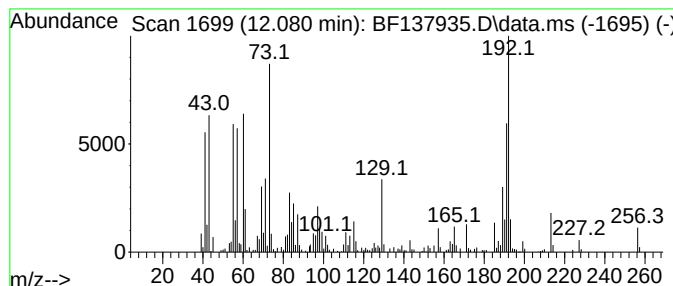
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.080 | 3.46 ng | 202053 | Phenanthrene-d10 | 11.575 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid     | 256 | C16H32O2 | 000057-10-3 | 97   |
| 2    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12   | 000832-69-9 | 86   |
| 3    |    |   | Anthracene, 2-methyl-   | 192 | C15H12   | 000613-12-7 | 86   |
| 4    |    |   | Tetradecanoic acid      | 228 | C14H28O2 | 000544-63-8 | 80   |
| 5    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12   | 002531-84-2 | 59   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051724\  
Data File : BF137935.D  
Acq On : 17 May 2024 16:48  
Operator : CG\JU  
Sample : P2513-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-13

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

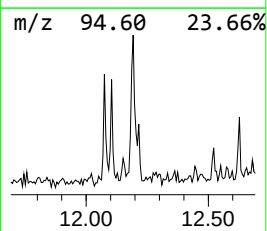
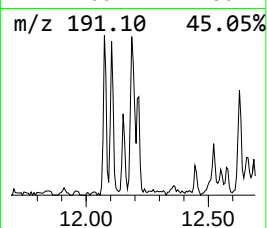
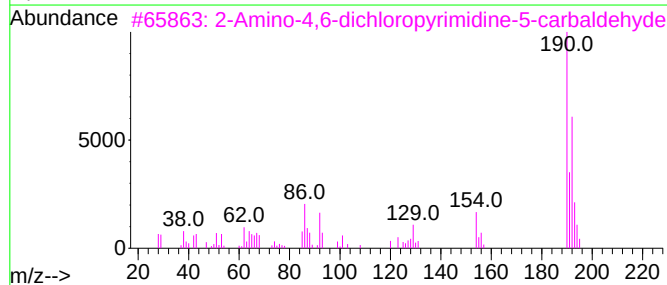
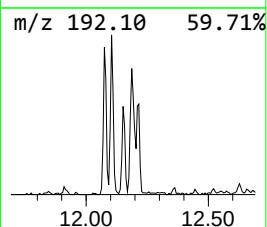
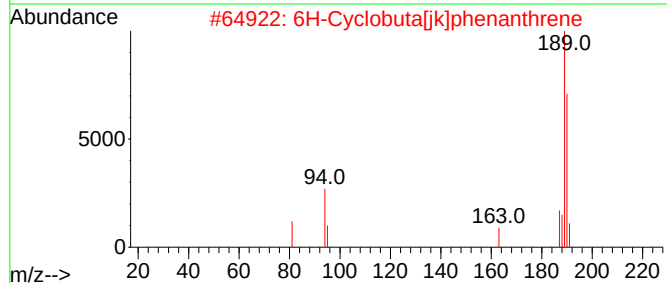
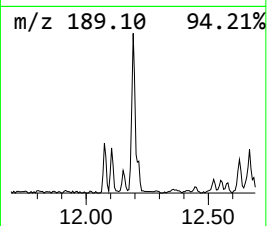
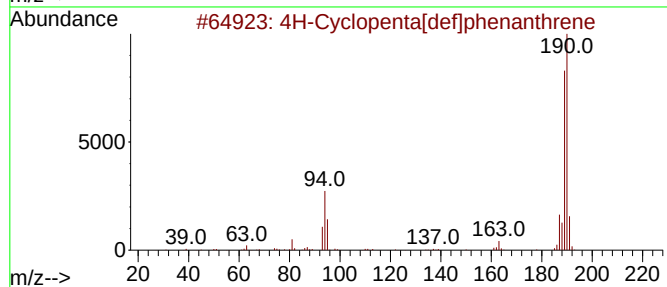
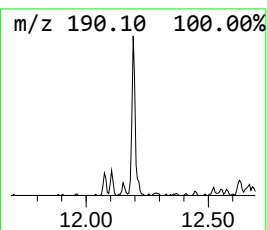
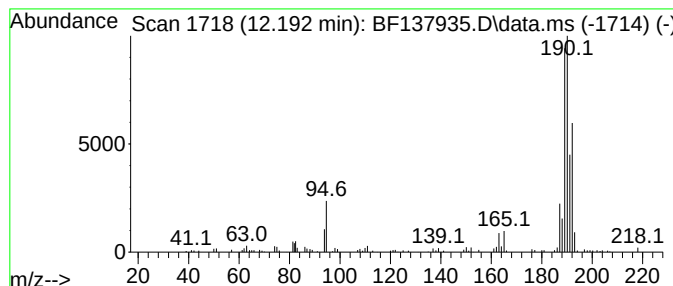
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*

Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 12.192 | 2.29 ng | 133703 | Phenanthrene-d10 | 11.575 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5 | 64   |
| 2    |    |   | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10     | 083469-43-6 | 58   |
| 3    |    |   | 2-Amino-4,6-dichloropyrimidine-5... | 191 | C5H3Cl2N3O | 005604-46-6 | 43   |
| 4    |    |   | Methyl diselenide                   | 190 | C2H6Se2    | 007101-31-7 | 38   |
| 5    |    |   | Anthracene, 9-methyl-               | 192 | C15H12     | 000779-02-2 | 25   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051724\  
Data File : BF137935.D  
Acq On : 17 May 2024 16:48  
Operator : CG\JU  
Sample : P2513-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-13

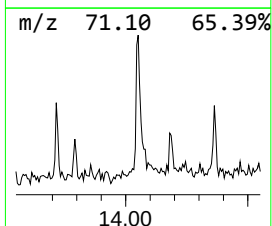
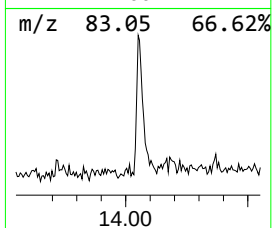
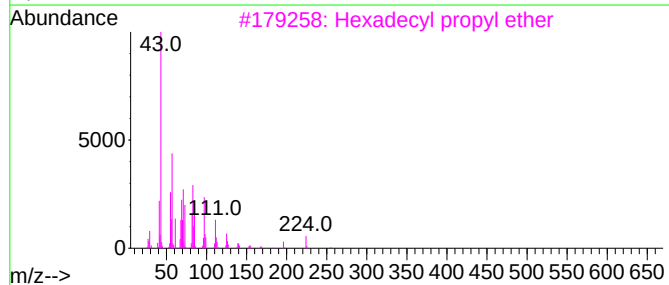
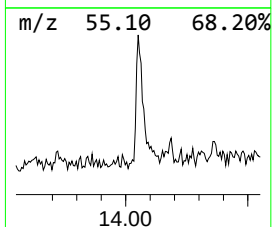
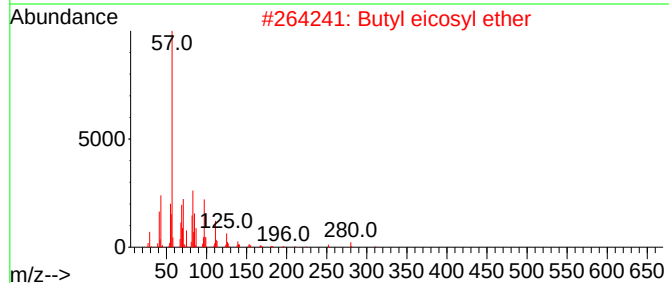
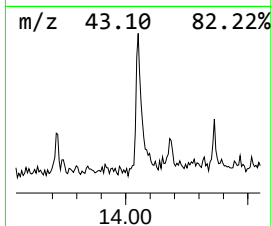
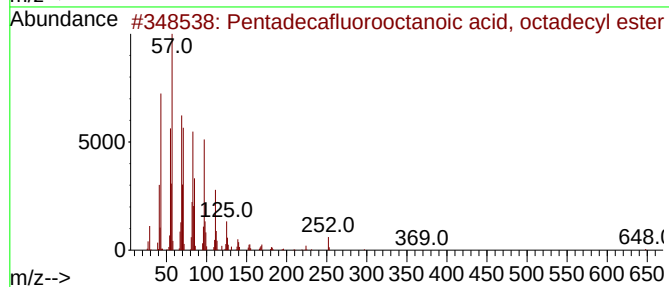
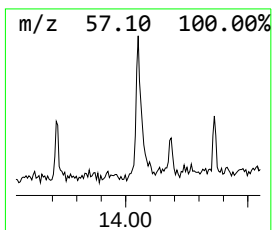
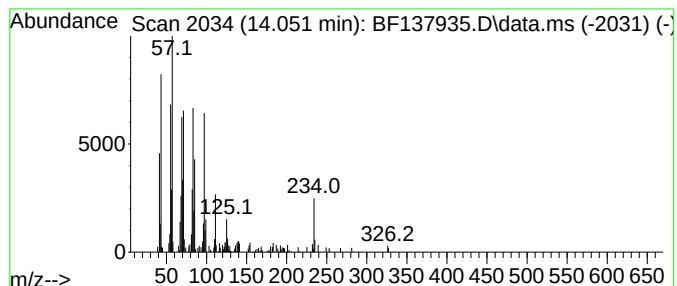
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*

Peak Number 5 Pentadecafluorooctanoic aci... Concentration Rank 2

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 14.051    | 4.10 ng                             | 189639 | Chrysene-d12     | 14.227       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Pentadecafluorooctanoic acid, oc... | 666    | C26H37F15O2      | 1000406-04-8 | 91   |
| 2         | Butyl eicosyl ether                 | 354    | C24H50O          | 1000406-40-7 | 83   |
| 3         | Hexadecyl propyl ether              | 284    | C19H40O          | 1000406-27-9 | 80   |
| 4         | Tricosyl heptafluorobutyrate        | 536    | C27H47F7O2       | 1000351-83-4 | 74   |
| 5         | Tricosyl pentafluoropropionate      | 486    | C26H47F5O2       | 1000351-81-0 | 74   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051724\  
Data File : BF137935.D  
Acq On : 17 May 2024 16:48  
Operator : CG\JU  
Sample : P2513-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-13

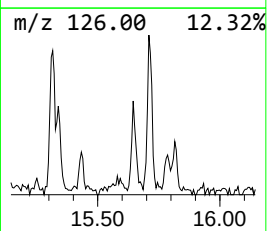
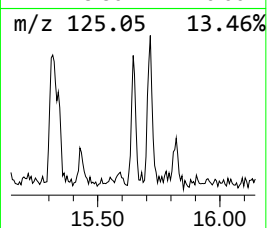
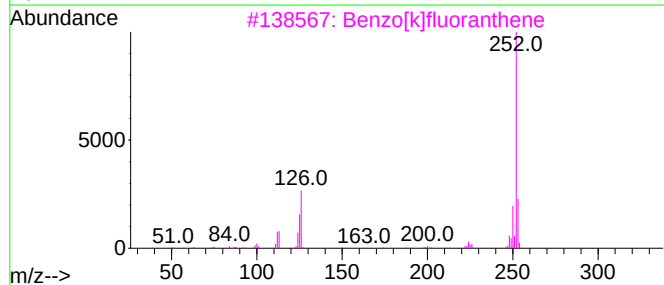
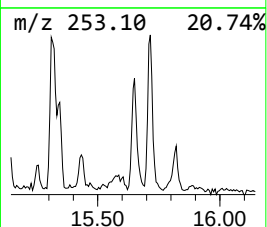
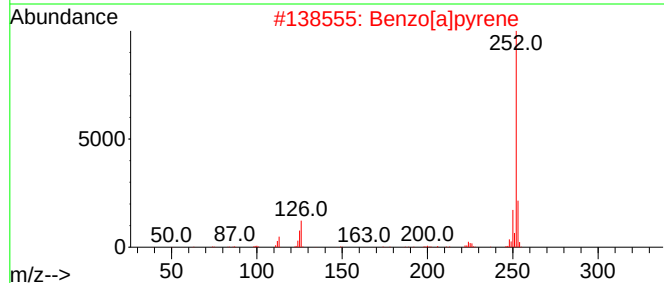
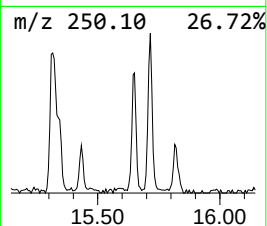
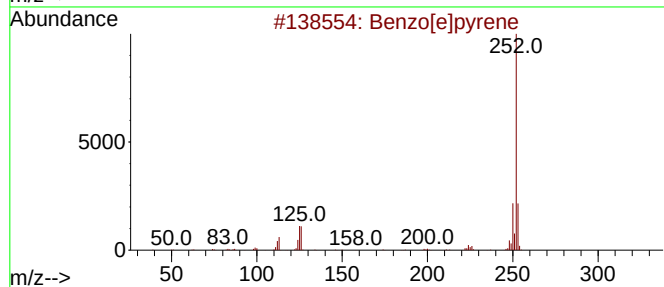
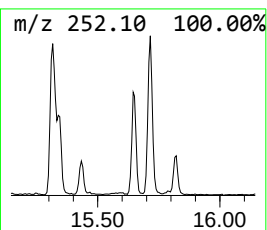
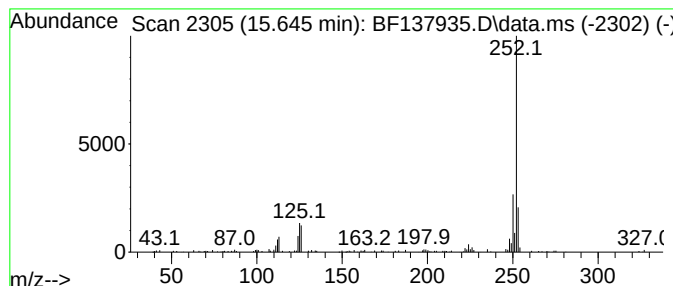
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Benzo[e]pyrene Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 15.645 | 2.44 ng | 106654 | Perylene-d12     | 15.786 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 96   |
| 2    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 93   |
| 3    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 93   |
| 4    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 90   |
| 5    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 87   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051724\  
Data File : BF137935.D  
Acq On : 17 May 2024 16:48  
Operator : CG\JU  
Sample : P2513-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-13

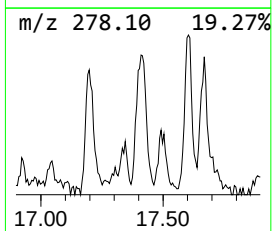
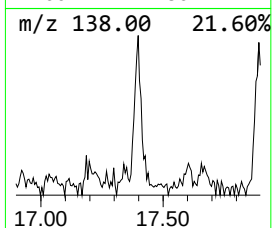
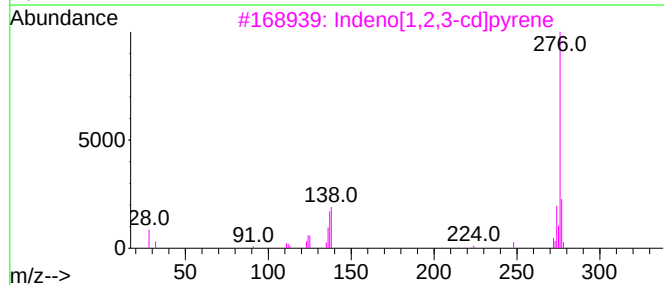
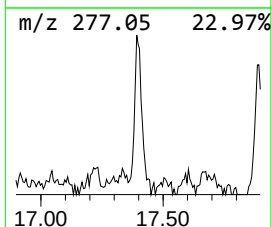
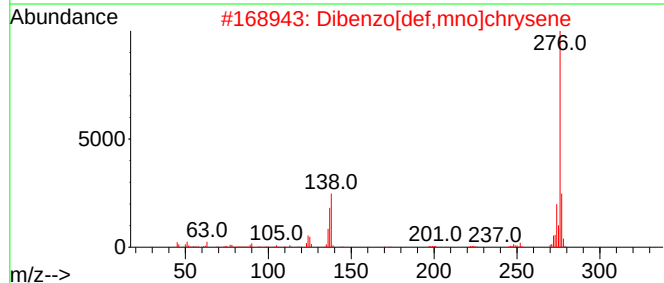
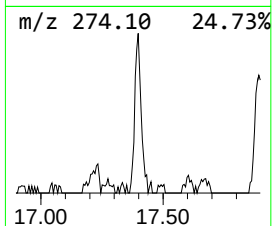
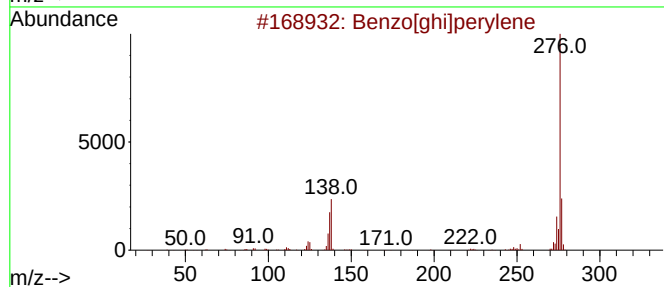
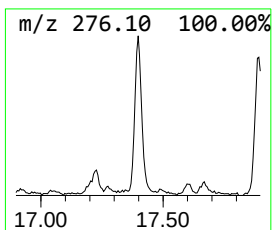
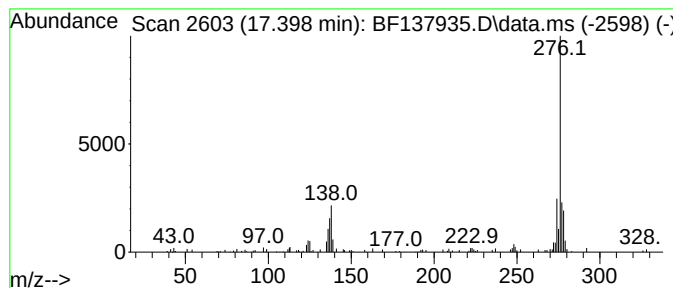
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Dibenzo[def,mno]chrysene Concentration Rank 4

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 17.398 | 2.61 ng | 114065 | Perylene-d12     | 15.786 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Benzo[ghi]perylene                  | 276 | C22H12      | 000191-24-2  | 95   |
| 2    |    |   | Dibenzo[def,mno]chrysene            | 276 | C22H12      | 000191-26-4  | 95   |
| 3    |    |   | Indeno[1,2,3-cd]pyrene              | 276 | C22H12      | 000193-39-5  | 94   |
| 4    |    |   | propanedinitrile, 2-(2,6-di-2-fu... | 276 | C16H8N2O3   | 1000397-07-0 | 47   |
| 5    |    |   | 1H-Indol-2-amine, N,N'-bis(trime... | 276 | C14H24N2Si2 | 1000500-18-2 | 47   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF051724\  
Data File : BF137935.D  
Acq On : 17 May 2024 16:48  
Operator : CG\JU  
Sample : P2513-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-13

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF051424.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name    | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|---------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                     |        |         |       |          | #                     | RT     | Resp    | Conc |
| Butane, 2-metho...  | 2.387  | 51.8    | ng    | 1867790  | 1                     | 7.040  | 720740  | 20.0 |
| n-Hexadecanoic ...  | 12.080 | 3.5     | ng    | 202053   | 4                     | 11.575 | 1167930 | 20.0 |
| 4H-Cyclopenta[d...] | 12.192 | 2.3     | ng    | 133703   | 4                     | 11.575 | 1167930 | 20.0 |
| Pentadecafluoro...  | 14.051 | 4.1     | ng    | 189639   | 5                     | 14.227 | 925300  | 20.0 |
| Benzo[e]pyrene      | 15.645 | 2.4     | ng    | 106654   | 6                     | 15.786 | 874727  | 20.0 |
| Dibenzo[def,mno...  | 17.398 | 2.6     | ng    | 114065   | 6                     | 15.786 | 874727  | 20.0 |