

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121523\  
 Data File : BF136587.D  
 Acq On : 15 Dec 2023 12:09  
 Operator : CG\JU  
 Sample : 05718-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-SOIL-20231206

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-BF120523.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF136587.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         | 5.022       | 495           | 499         | 506          | rVB      | 37863          | 45026         | 1.76%           | 0.260%        |
| 2         | 5.428       | 564           | 568         | 571          | rBV      | 2224671        | 1929754       | 75.53%          | 11.157%       |
| 3         | 6.434       | 734           | 739         | 742          | rBV      | 2107268        | 1908458       | 74.70%          | 11.034%       |
| 4         | 6.710       | 783           | 786         | 795          | rVB      | 29747          | 33066         | 1.29%           | 0.191%        |
| 5         | 6.787       | 795           | 799         | 802          | rBV      | 691834         | 565336        | 22.13%          | 3.268%        |
| 6         | 7.345       | 889           | 894         | 897          | rBV      | 1434288        | 1281392       | 50.16%          | 7.408%        |
| 7         | 8.063       | 1008          | 1016        | 1019         | rBV      | 919755         | 760777        | 29.78%          | 4.398%        |
| 8         | 9.139       | 1194          | 1199        | 1202         | rBV      | 2990056        | 2554813       | 100.00%         | 14.771%       |
| 9         | 9.816       | 1311          | 1314        | 1318         | rVB      | 906222         | 795723        | 31.15%          | 4.600%        |
| 10        | 10.228      | 1380          | 1384        | 1386         | rBV2     | 32862          | 31221         | 1.22%           | 0.181%        |
| 11        | 10.610      | 1445          | 1449        | 1455         | rBV      | 1424205        | 1252947       | 49.04%          | 7.244%        |
| 12        | 10.739      | 1468          | 1471        | 1473         | rBV4     | 24928          | 30688         | 1.20%           | 0.177%        |
| 13        | 11.310      | 1564          | 1568        | 1570         | rBV      | 827482         | 669116        | 26.19%          | 3.869%        |
| 14        | 11.333      | 1570          | 1572        | 1575         | rVB      | 187574         | 141957        | 5.56%           | 0.821%        |
| 15        | 11.851      | 1655          | 1660        | 1664         | rBV2     | 436153         | 498048        | 19.49%          | 2.879%        |
| 16        | 12.527      | 1772          | 1775        | 1778         | rBV      | 212377         | 177869        | 6.96%           | 1.028%        |
| 17        | 12.633      | 1790          | 1793        | 1805         | rVB2     | 205483         | 264205        | 10.34%          | 1.528%        |
| 18        | 12.757      | 1811          | 1814        | 1817         | rVB      | 185033         | 165692        | 6.49%           | 0.958%        |
| 19        | 12.904      | 1835          | 1839        | 1843         | rVB      | 2008058        | 1729547       | 67.70%          | 9.999%        |
| 20        | 13.392      | 1919          | 1922        | 1930         | rVB      | 138959         | 134871        | 5.28%           | 0.780%        |
| 21        | 13.868      | 1999          | 2003        | 2004         | rBV3     | 38979          | 52444         | 2.05%           | 0.303%        |
| 22        | 13.957      | 2014          | 2018        | 2021         | rBV2     | 569889         | 638529        | 24.99%          | 3.692%        |
| 23        | 13.986      | 2021          | 2023        | 2026         | rVB      | 96272          | 72149         | 2.82%           | 0.417%        |
| 24        | 14.439      | 2098          | 2100        | 2103         | rVB2     | 32554          | 29542         | 1.16%           | 0.171%        |
| 25        | 14.598      | 2124          | 2127        | 2131         | rBV      | 271217         | 248066        | 9.71%           | 1.434%        |
| 26        | 14.821      | 2162          | 2165        | 2171         | rVB      | 102137         | 119478        | 4.68%           | 0.691%        |
| 27        | 15.004      | 2192          | 2196        | 2199         | rBV      | 101588         | 144839        | 5.67%           | 0.837%        |
| 28        | 15.310      | 2244          | 2248        | 2254         | rVB      | 65151          | 100522        | 3.93%           | 0.581%        |
| 29        | 15.368      | 2255          | 2258        | 2264         | rVB      | 83991          | 106493        | 4.17%           | 0.616%        |
| 30        | 15.439      | 2265          | 2270        | 2274         | rBV      | 506887         | 626964        | 24.54%          | 3.625%        |
| 31        | 15.933      | 2350          | 2354        | 2359         | rBV6     | 22677          | 42114         | 1.65%           | 0.243%        |
| 32        | 16.927      | 2519          | 2523        | 2533         | rVB4     | 41409          | 92982         | 3.64%           | 0.538%        |
| 33        | 17.380      | 2595          | 2600        | 2605         | rBV2     | 25371          | 51885         | 2.03%           | 0.300%        |

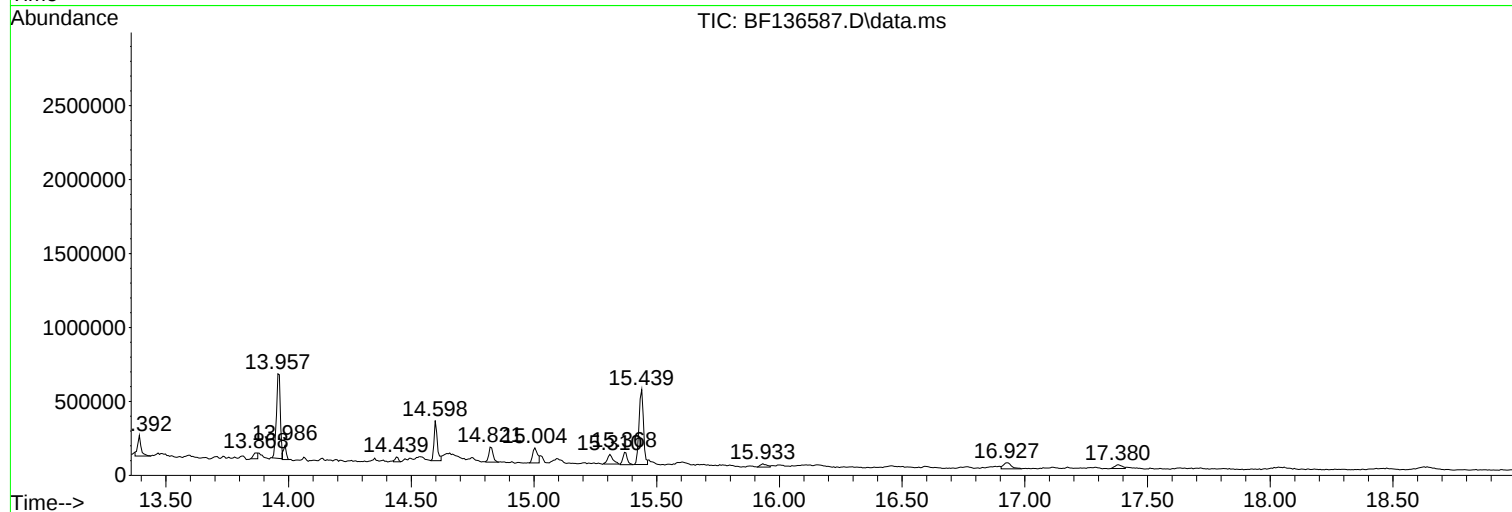
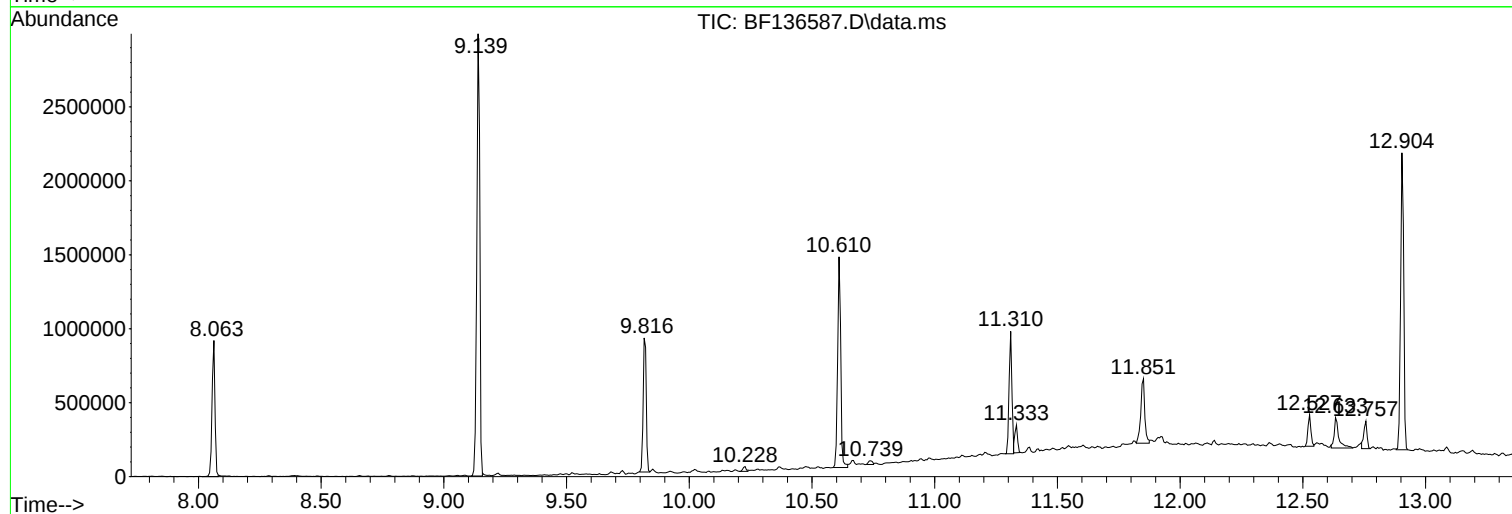
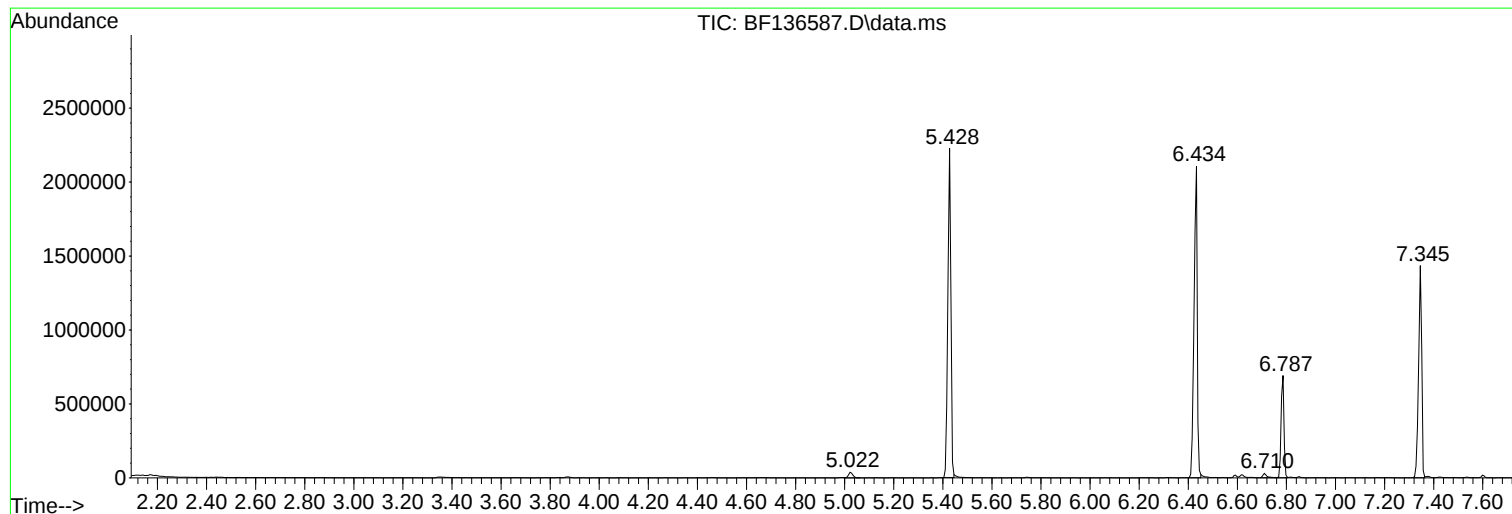
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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20231206

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.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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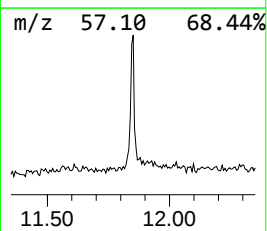
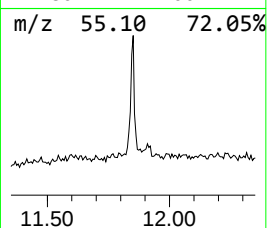
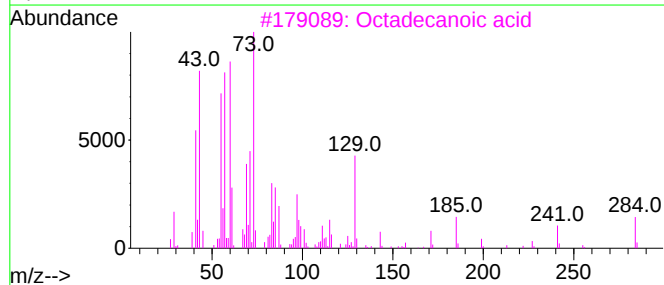
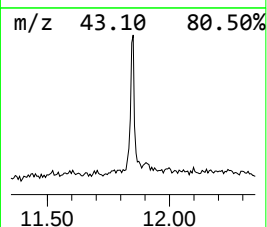
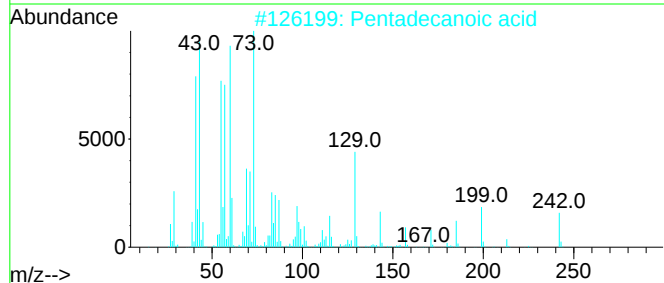
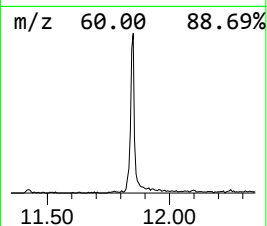
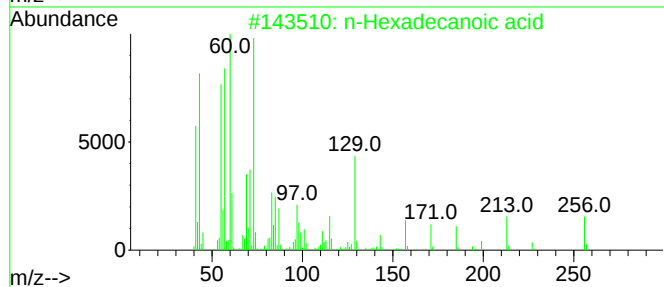
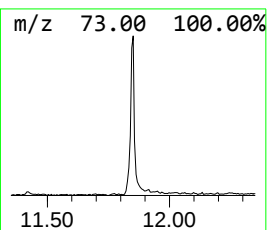
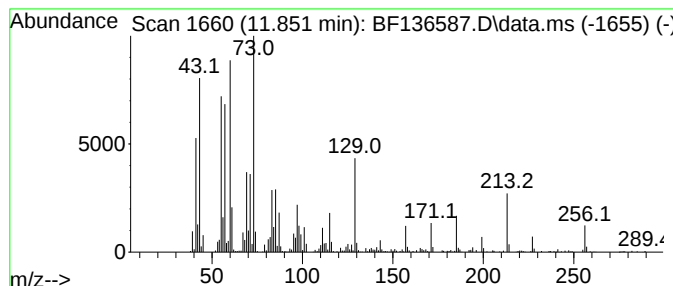
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 1

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.851 | 14.89 ng | 498048 | Phenanthrene-d10 | 11.310 |

| Hit# | of 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|------|---------------------|-----|----------|-------------|------|
| 1    |      | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |      | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 87   |
| 3    |      | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 87   |
| 4    |      | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 74   |
| 5    |      | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 68   |



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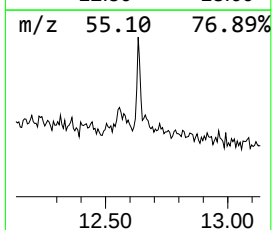
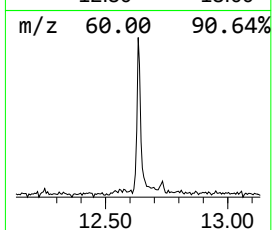
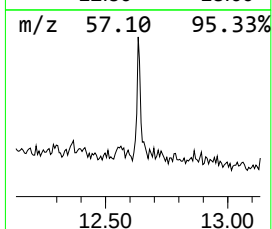
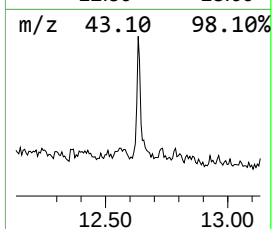
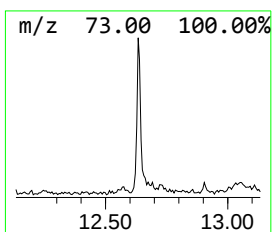
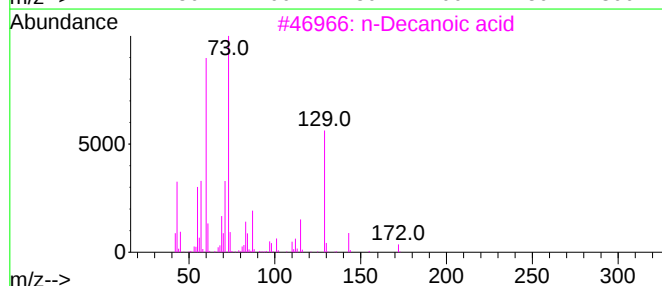
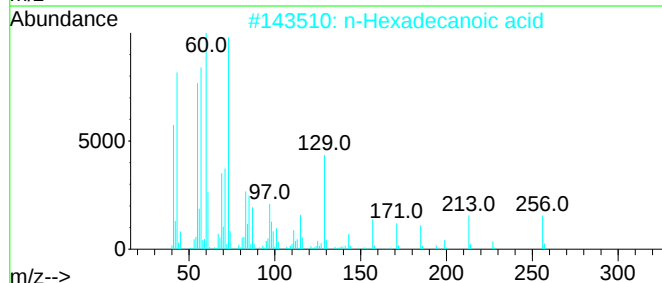
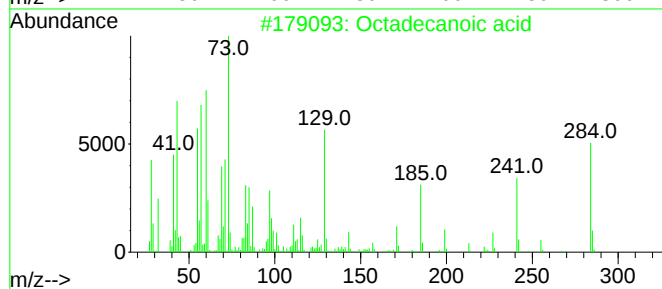
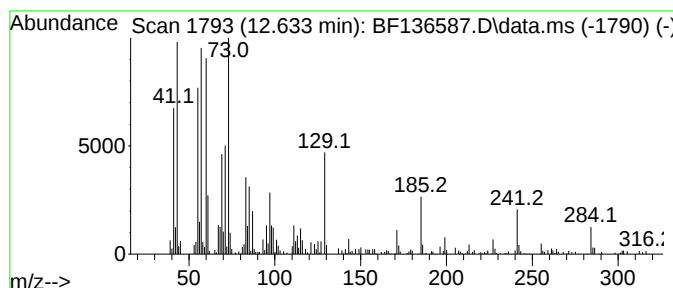
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Octadecanoic acid Concentration Rank 2

| R.T.      | EstConc             | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------|--------|------------------|-------------|------|
| 12.633    | 7.90 ng             | 264205 | Phenanthrene-d10 | 11.310      |      |
| Hit# of 5 | Tentative ID        | MW     | MolForm          | CAS#        | Qual |
| 1         | Octadecanoic acid   | 284    | C18H36O2         | 000057-11-4 | 99   |
| 2         | n-Hexadecanoic acid | 256    | C16H32O2         | 000057-10-3 | 93   |
| 3         | n-Decanoic acid     | 172    | C10H20O2         | 000334-48-5 | 91   |
| 4         | Eicosanoic acid     | 312    | C20H40O2         | 000506-30-9 | 90   |
| 5         | Hexadecane          | 226    | C16H34           | 000544-76-3 | 25   |



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ALS Vial : 4 Sample Multiplier: 1

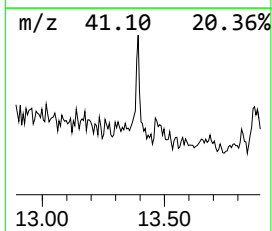
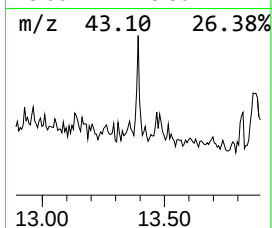
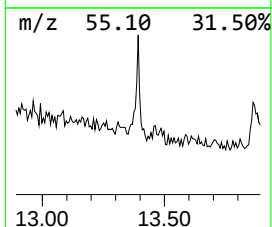
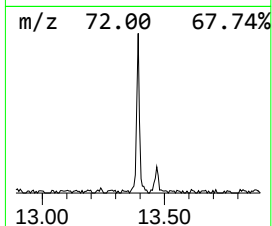
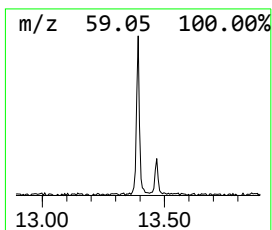
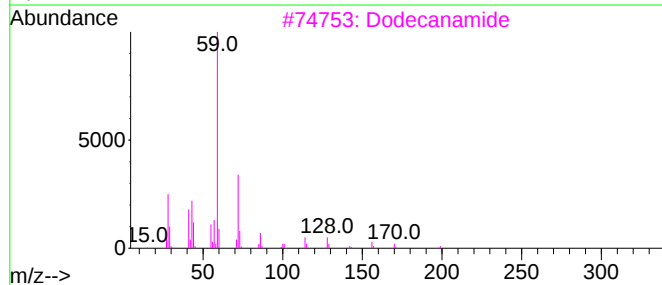
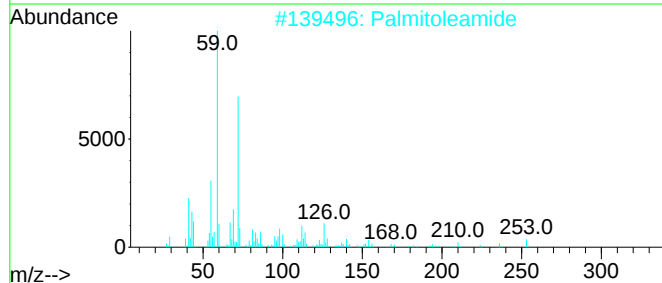
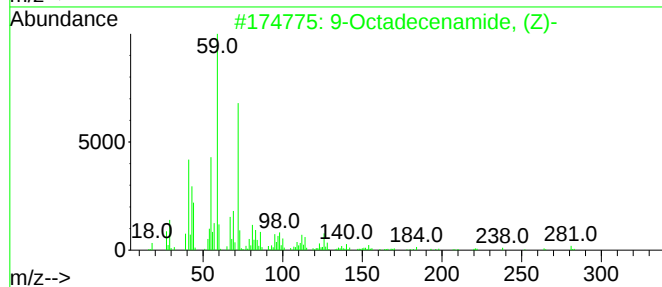
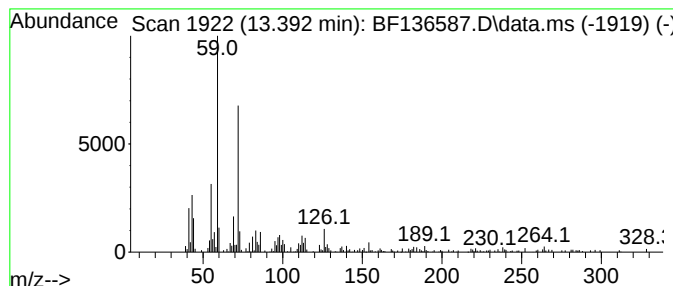
Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20231206

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.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 9-Octadecenamide, (Z)- Concentration Rank 4

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 13.392    | 4.22 ng                             | 134871 | Chrysene-d12     | 13.963      |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 9-Octadecenamide, (Z)-              | 281    | C18H35NO         | 000301-02-0 | 86   |
| 2         | Palmitoleamide                      | 253    | C16H31NO         | 106010-22-4 | 80   |
| 3         | Dodecanamide                        | 199    | C12H25NO         | 001120-16-7 | 76   |
| 4         | Benzeneethanamine, 2-fluoro-.bet... | 229    | C11H16FN03       | 061338-98-5 | 64   |
| 5         | Octanamide                          | 143    | C8H17NO          | 000629-01-6 | 59   |



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Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :  
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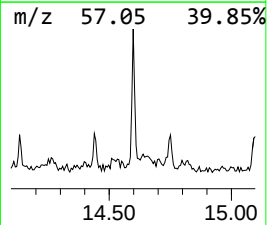
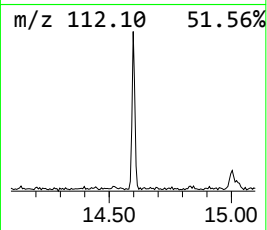
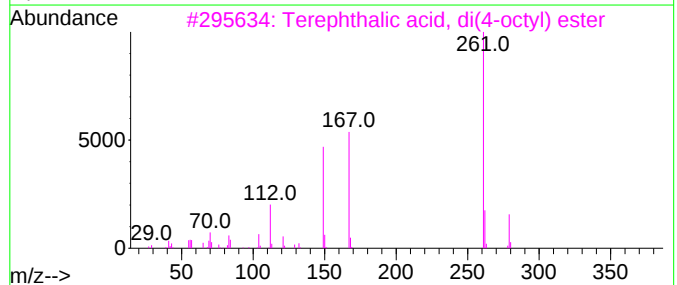
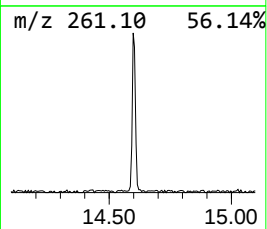
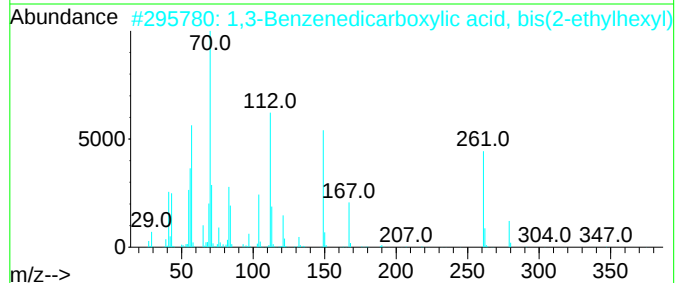
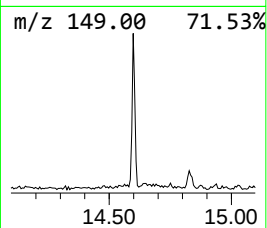
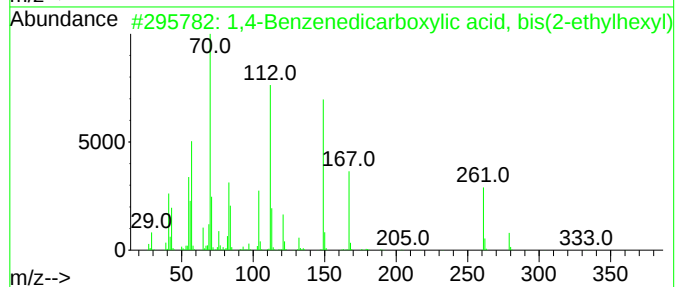
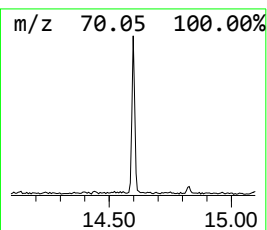
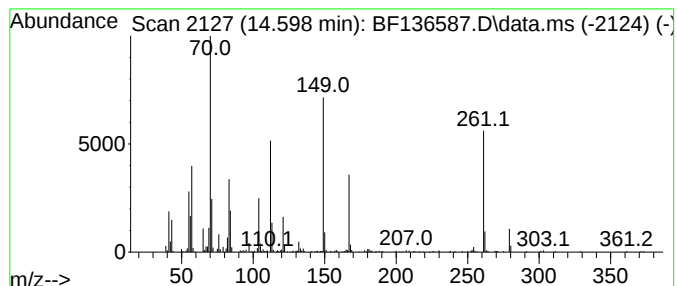
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TIC Library : C:\Database\NIST20.L  
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Peak Number 4 1,4-Benzenedicarboxylic aci... Concentration Rank 3

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 14.598    | 7.77 ng                             | 248066 | Chrysene-d12     | 13.963       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 1,4-Benzenedicarboxylic acid, bi... | 390    | C24H38O4         | 006422-86-2  | 90   |
| 2         | 1,3-Benzenedicarboxylic acid, bi... | 390    | C24H38O4         | 000137-89-3  | 87   |
| 3         | Terephthalic acid, di(4-octyl) e... | 390    | C24H38O4         | 1000323-74-2 | 64   |
| 4         | Terephthalic acid, 3-methylbut-2... | 348    | C21H32O4         | 1000356-27-6 | 59   |
| 5         | Terephthalic acid, 2-ethylhexyl ... | 390    | C24H38O4         | 1000324-00-5 | 50   |



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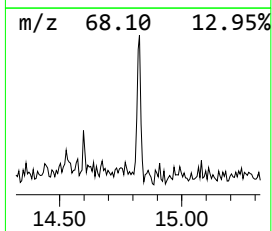
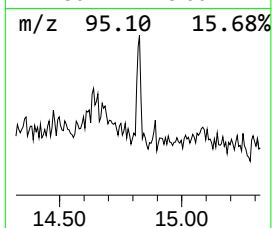
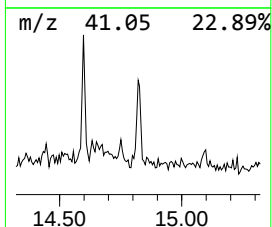
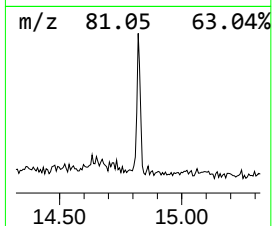
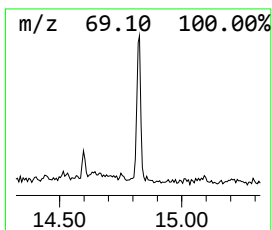
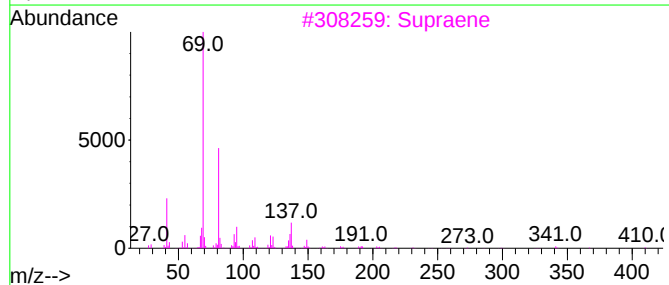
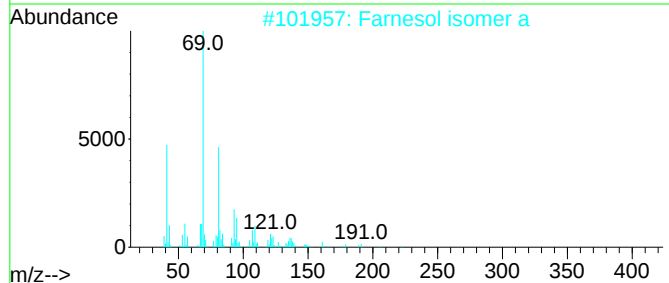
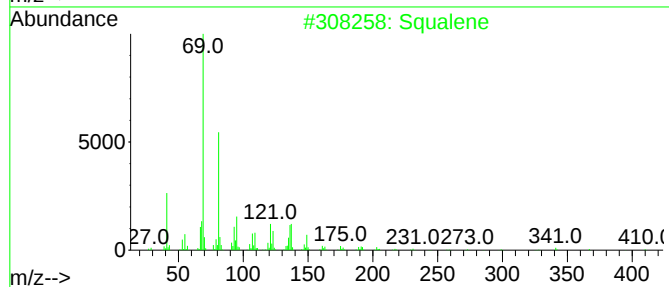
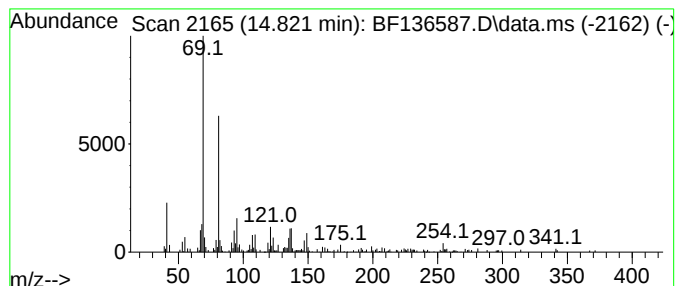
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Squalene Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 14.821 | 3.81 ng | 119478 | Perylene-d12     | 15.439 |

| Hit# | of | 5 | Tentative ID                          | MW  | MolForm  | CAS#         | Qual |
|------|----|---|---------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Squalene                              | 410 | C30H50   | 000111-02-4  | 90   |
| 2    |    |   | Farnesol isomer a                     | 222 | C15H26O  | 1000108-92-4 | 83   |
| 3    |    |   | Supraene                              | 410 | C30H50   | 007683-64-9  | 80   |
| 4    |    |   | trans-Farnesol                        | 222 | C15H26O  | 000106-28-5  | 76   |
| 5    |    |   | 3,7,11-Tridecatricienoic acid, 4,8... | 264 | C17H28O2 | 036237-70-4  | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121523\  
Data File : BF136587.D  
Acq On : 15 Dec 2023 12:09  
Operator : CG\JU  
Sample : 05718-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20231206

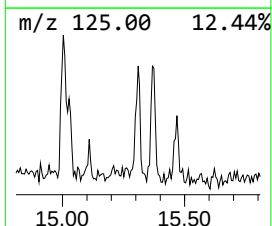
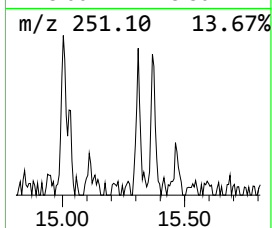
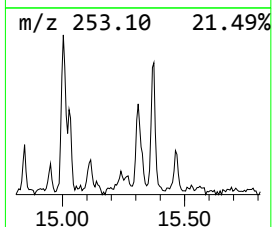
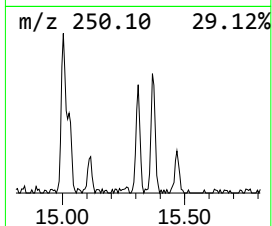
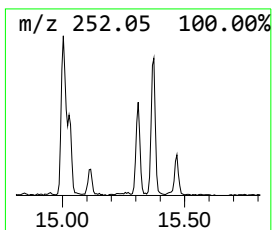
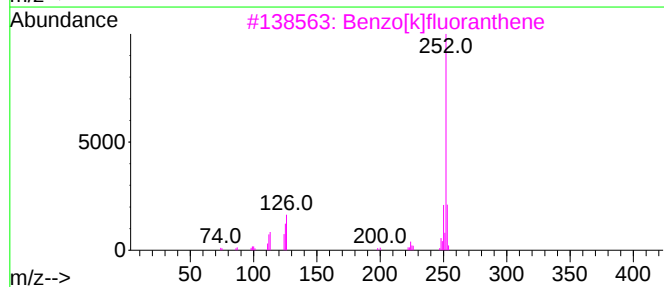
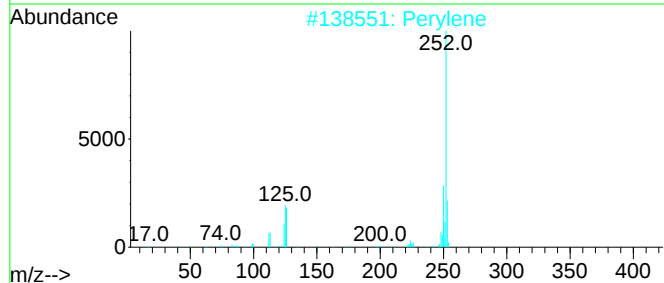
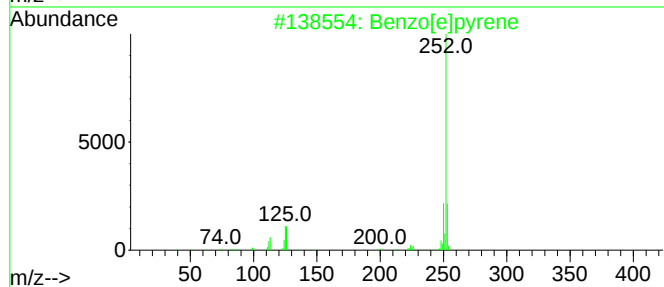
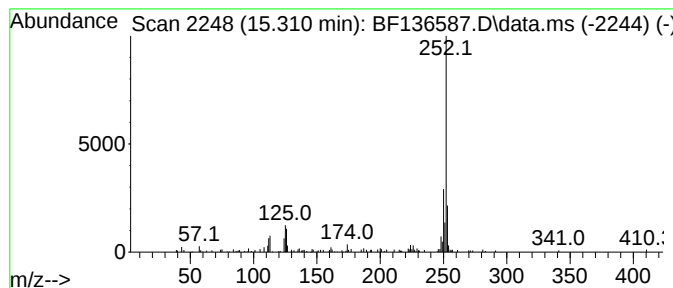
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Benzo[e]pyrene Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 15.310 | 3.21 ng | 100522 | Perylene-d12     | 15.439 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 95   |
| 3    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 93   |
| 4    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 93   |
| 5    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF121523\  
Data File : BF136587.D  
Acq On : 15 Dec 2023 12:09  
Operator : CG\JU  
Sample : 05718-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
WC-SOIL-20231206

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF120523.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 |
| n-Hexadecanoic ... | 11.851 | 14.9    | ng    | 498048   | 4                     | 11.310 | 669116 | 20.0 |
| Octadecanoic acid  | 12.633 | 7.9     | ng    | 264205   | 4                     | 11.310 | 669116 | 20.0 |
| 9-Octadecenamid... | 13.392 | 4.2     | ng    | 134871   | 5                     | 13.963 | 638529 | 20.0 |
| 1,4-Benzenedica... | 14.598 | 7.8     | ng    | 248066   | 5                     | 13.963 | 638529 | 20.0 |
| Squalene           | 14.821 | 3.8     | ng    | 119478   | 6                     | 15.439 | 626964 | 20.0 |
| Benzo[e]pyrene     | 15.310 | 3.2     | ng    | 100522   | 6                     | 15.439 | 626964 | 20.0 |