

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062023\  
 Data File : BG057771.D  
 Acq On : 20 Jun 2023 11:26  
 Operator : CG/JU  
 Sample : 03262-04  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WS-SOIL2-0615

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG061923.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG057771.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         | 5.030       | 322           | 330         | 338          | rBV      | 58931          | 88576         | 3.69%           | 0.710%        |
| 2         | 5.494       | 402           | 409         | 418          | rBV      | 644518         | 986668        | 41.11%          | 7.904%        |
| 3         | 7.080       | 671           | 679         | 690          | rBV      | 628588         | 1054189       | 43.92%          | 8.445%        |
| 4         | 7.921       | 815           | 822         | 830          | rVB      | 109509         | 185671        | 7.74%           | 1.487%        |
| 5         | 9.084       | 1012          | 1020        | 1027         | rBV      | 359356         | 624918        | 26.04%          | 5.006%        |
| 6         | 10.729      | 1292          | 1300        | 1307         | rVB      | 151855         | 264592        | 11.02%          | 2.120%        |
| 7         | 13.185      | 1710          | 1718        | 1725         | rBV      | 849921         | 1287215       | 53.63%          | 10.312%       |
| 8         | 14.560      | 1944          | 1952        | 1958         | rBV2     | 225357         | 360943        | 15.04%          | 2.892%        |
| 9         | 15.911      | 2177          | 2182        | 2189         | rVB      | 42488          | 61749         | 2.57%           | 0.495%        |
| 10        | 16.041      | 2198          | 2204        | 2211         | rBV      | 811480         | 1239373       | 51.63%          | 9.929%        |
| 11        | 17.304      | 2412          | 2419        | 2423         | rBV      | 339265         | 526834        | 21.95%          | 4.221%        |
| 12        | 17.339      | 2423          | 2425        | 2431         | rVB      | 35395          | 46384         | 1.93%           | 0.372%        |
| 13        | 18.191      | 2564          | 2570        | 2580         | rBV2     | 278936         | 430825        | 17.95%          | 3.451%        |
| 14        | 18.367      | 2595          | 2600        | 2604         | rBV6     | 14690          | 31408         | 1.31%           | 0.252%        |
| 15        | 18.455      | 2604          | 2615        | 2620         | rVV7     | 29810          | 95658         | 3.99%           | 0.766%        |
| 16        | 19.348      | 2763          | 2767        | 2774         | rVB      | 78877          | 121248        | 5.05%           | 0.971%        |
| 17        | 19.466      | 2782          | 2787        | 2798         | rBV2     | 117916         | 170886        | 7.12%           | 1.369%        |
| 18        | 19.713      | 2821          | 2829        | 2836         | rBV      | 89615          | 157695        | 6.57%           | 1.263%        |
| 19        | 19.918      | 2858          | 2864        | 2870         | rBV      | 1853312        | 2400286       | 100.00%         | 19.229%       |
| 20        | 20.200      | 2903          | 2912        | 2914         | rBV6     | 23616          | 51833         | 2.16%           | 0.415%        |
| 21        | 20.224      | 2914          | 2916        | 2922         | rVB      | 28589          | 37461         | 1.56%           | 0.300%        |
| 22        | 20.365      | 2935          | 2940        | 2944         | rBV5     | 15398          | 26222         | 1.09%           | 0.210%        |
| 23        | 20.553      | 2966          | 2972        | 2975         | rBV6     | 26060          | 43701         | 1.82%           | 0.350%        |
| 24        | 20.723      | 2997          | 3001        | 3004         | rVB      | 38111          | 43917         | 1.83%           | 0.352%        |
| 25        | 21.211      | 3080          | 3084        | 3092         | rVB3     | 147275         | 218790        | 9.12%           | 1.753%        |
| 26        | 21.287      | 3093          | 3097        | 3103         | rVB2     | 29529          | 42052         | 1.75%           | 0.337%        |
| 27        | 21.552      | 3135          | 3142        | 3148         | rBV2     | 375363         | 688184        | 28.67%          | 5.513%        |
| 28        | 21.757      | 3173          | 3177        | 3183         | rVB2     | 33922          | 49231         | 2.05%           | 0.394%        |
| 29        | 23.038      | 3390          | 3395        | 3403         | rVB3     | 44023          | 102386        | 4.27%           | 0.820%        |
| 30        | 23.473      | 3463          | 3469        | 3476         | rVB2     | 40762          | 85564         | 3.56%           | 0.685%        |
| 31        | 23.702      | 3502          | 3508        | 3516         | rBV3     | 40028          | 96193         | 4.01%           | 0.771%        |
| 32        | 24.701      | 3669          | 3678        | 3696         | rBV2     | 242013         | 686288        | 28.59%          | 5.498%        |
| 33        | 27.081      | 4075          | 4083        | 4097         | rVB5     | 46699          | 175698        | 7.32%           | 1.408%        |

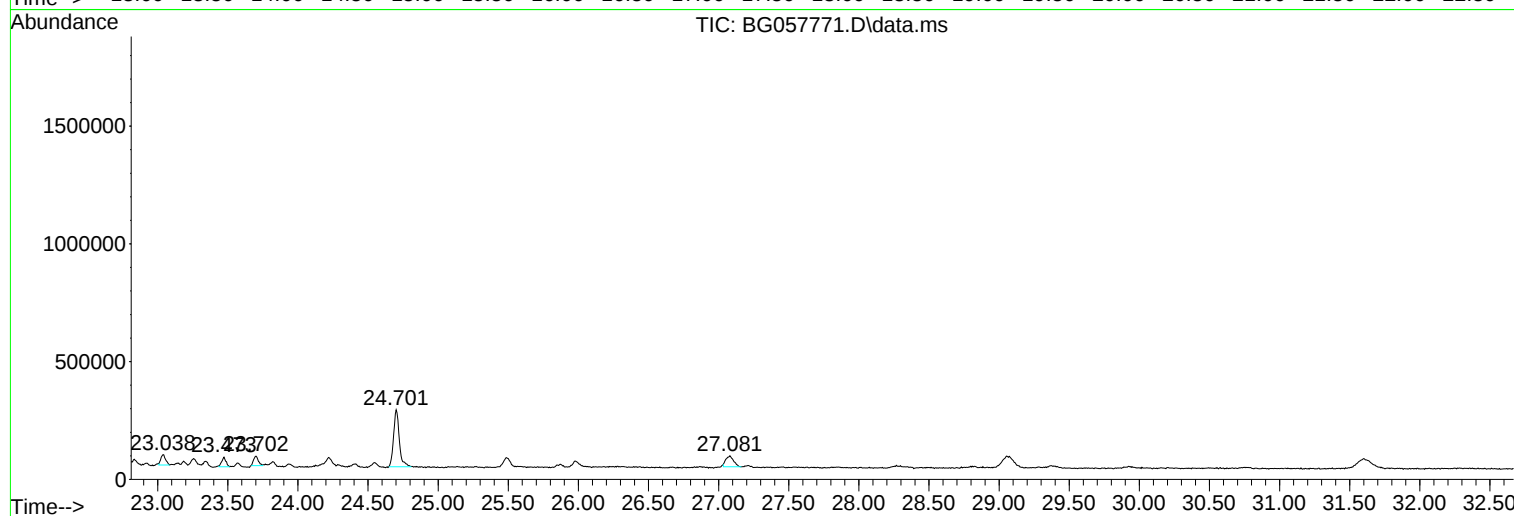
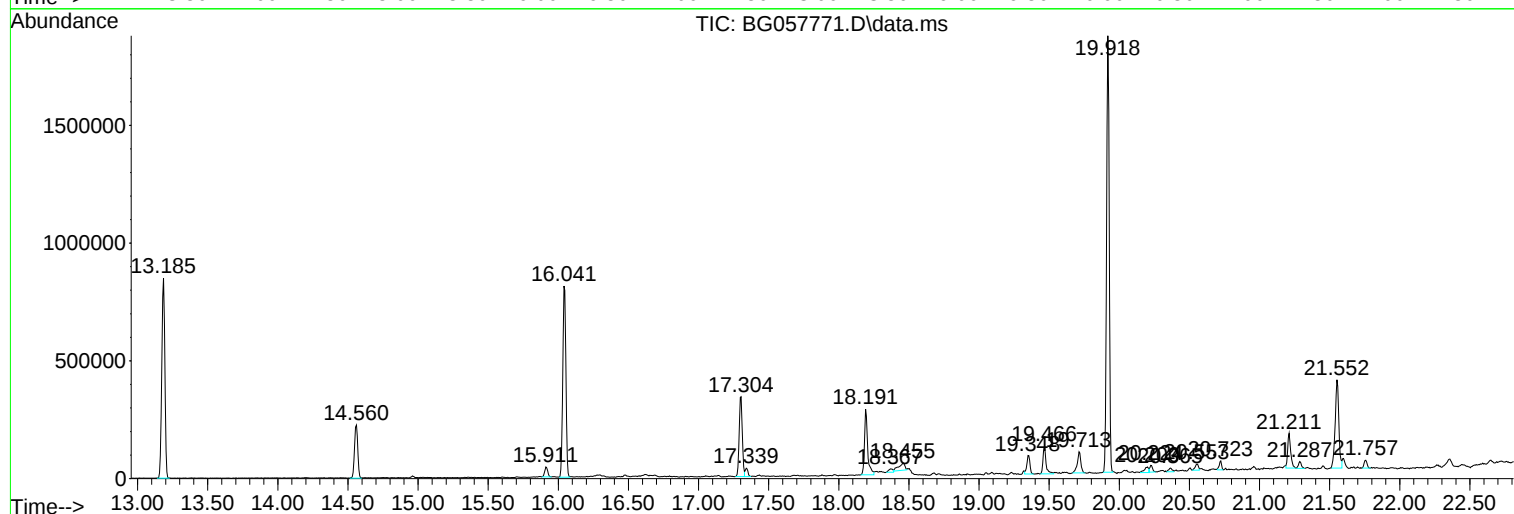
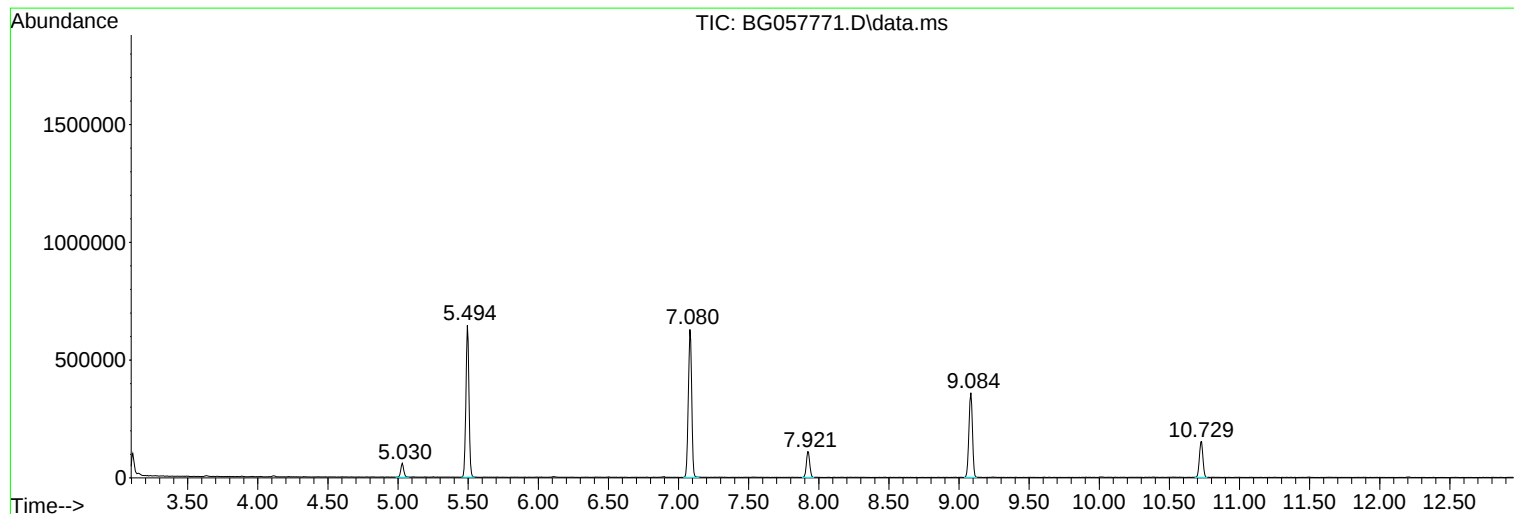
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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG061923.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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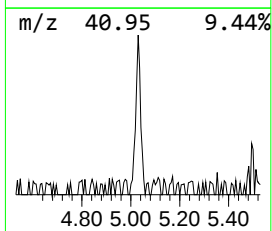
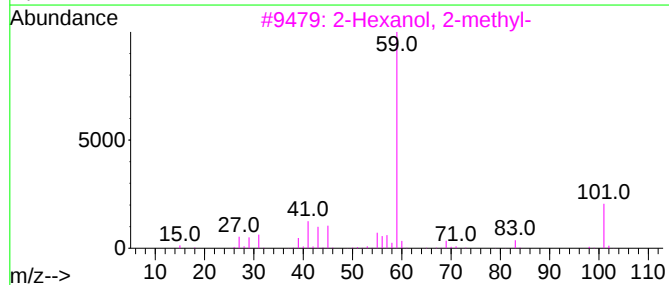
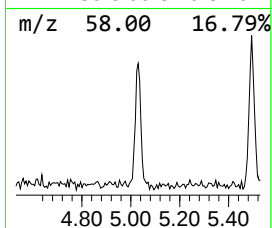
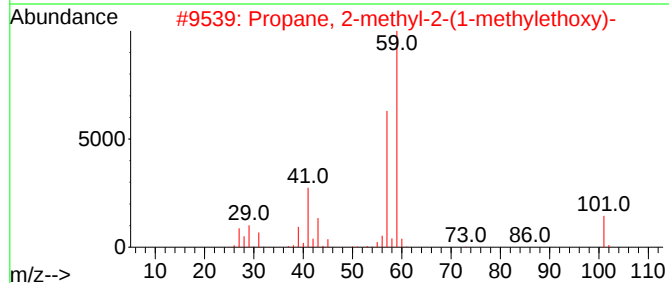
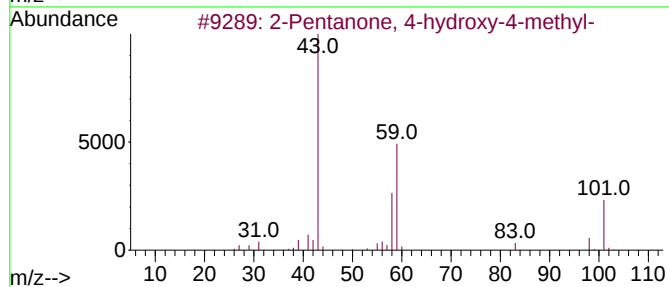
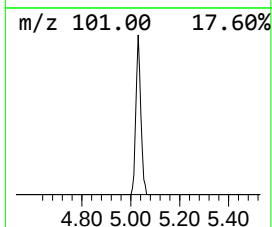
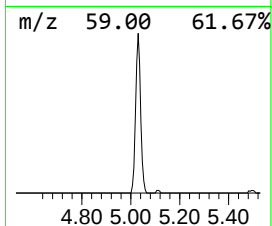
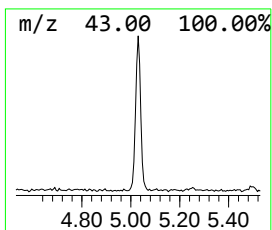
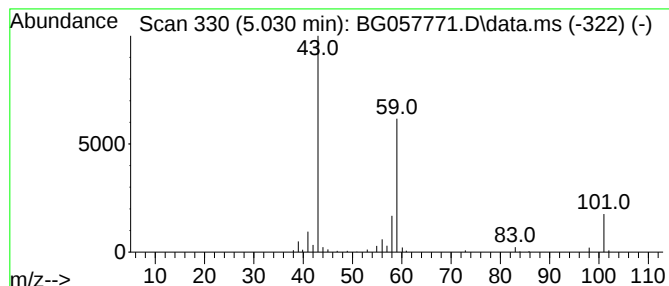
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

| R.T.  | EstConc | Area  | Relative to ISTD       | R.T.  |
|-------|---------|-------|------------------------|-------|
| 5.030 | 9.54 ng | 88576 | 1,4-Dichlorobenzene-d4 | 7.926 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2      | 000123-42-2 | 50      |      |      |
| 2    | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O       | 017348-59-3 | 36      |      |      |
| 3    | 2-Hexanol, 2-methyl-                | 116 | C7H16O       | 000625-23-0 | 33      |      |      |
| 4    | 3-Octanol                           | 130 | C8H18O       | 000589-98-0 | 33      |      |      |
| 5    | 1,2-Butanediol                      | 90  | C4H10O2      | 000584-03-2 | 32      |      |      |



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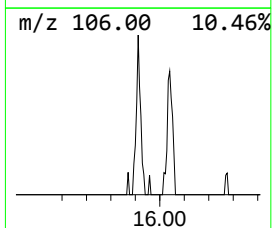
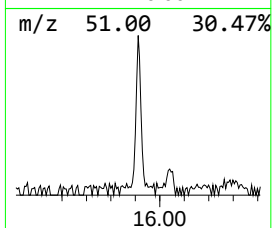
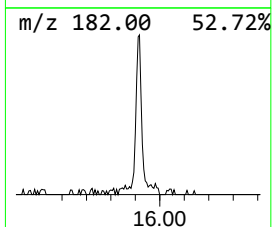
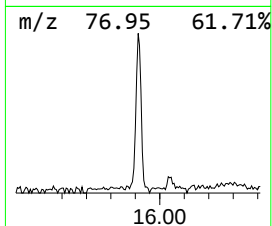
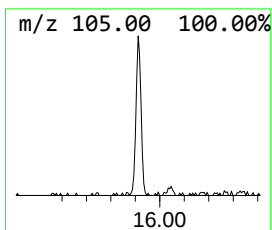
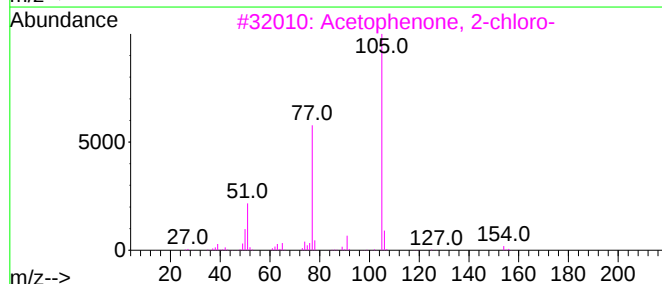
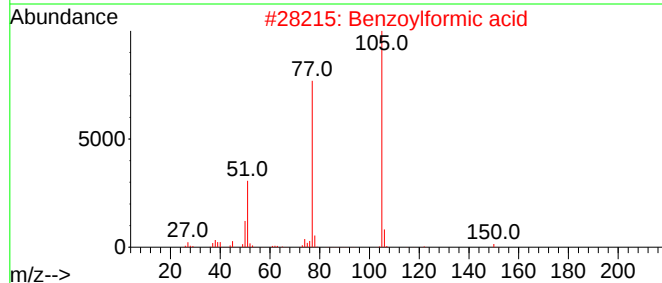
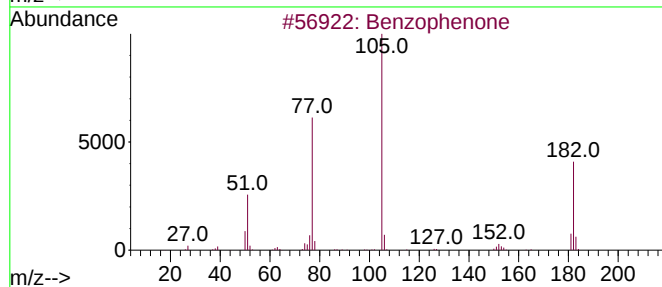
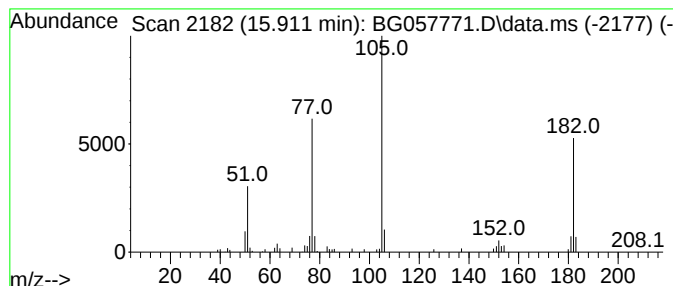
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG061923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Benzophenone Concentration Rank 7

| R.T.   | EstConc | Area  | Relative to ISTD | R.T.   |
|--------|---------|-------|------------------|--------|
| 15.911 | 3.42 ng | 61749 | Acenaphthene-d10 | 14.560 |

| Hit# | of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------|-----|---------|-------------|------|
| 1    |      | Benzophenone            | 182 | C13H10O | 000119-61-9 | 97   |
| 2    |      | Benzoylformic acid      | 150 | C8H6O3  | 000611-73-4 | 58   |
| 3    |      | Acetophenone, 2-chloro- | 154 | C8H7ClO | 000532-27-4 | 52   |
| 4    |      | Benzoyl isothiocyanate  | 163 | C8H5NOS | 000532-55-8 | 50   |
| 5    |      | Benzenecarbothioic acid | 138 | C7H6OS  | 000098-91-9 | 50   |



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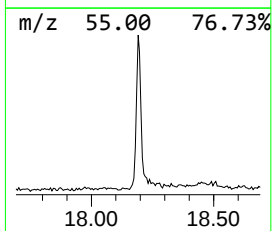
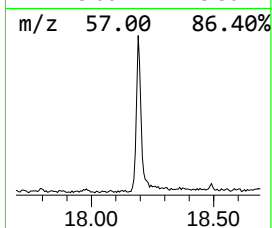
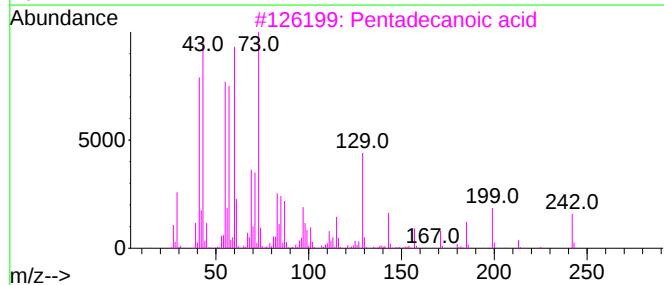
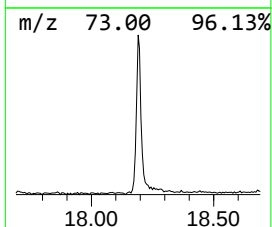
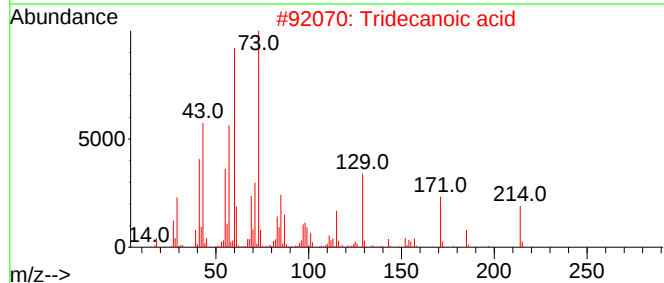
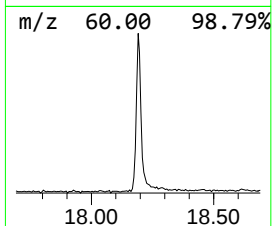
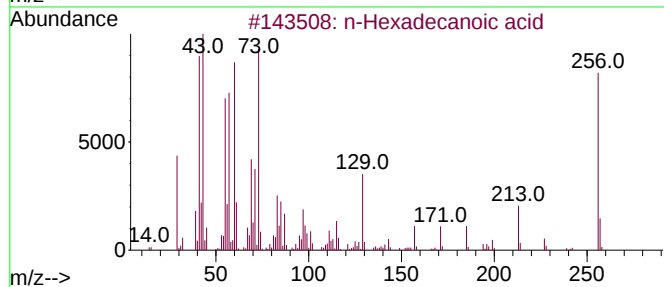
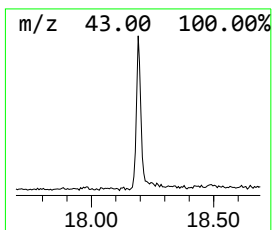
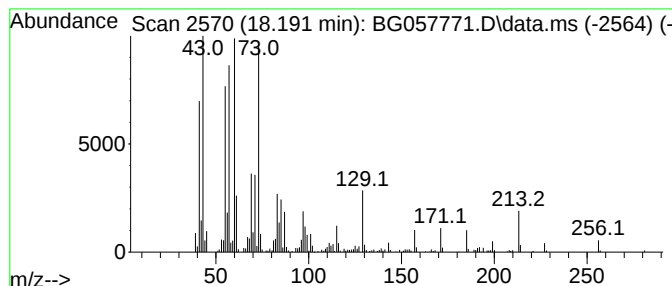
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 n-Hexadecanoic acid Concentration Rank 1

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 18.191 | 16.36 ng | 430825 | Phenanthrene-d10 | 17.304 |

| Hit# | of 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|------|---------------------|-----|----------|-------------|------|
| 1    |      | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95   |
| 2    |      | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 93   |
| 3    |      | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 81   |
| 4    |      | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 68   |
| 5    |      | Undecanoic acid     | 186 | C11H22O2 | 000112-37-8 | 59   |



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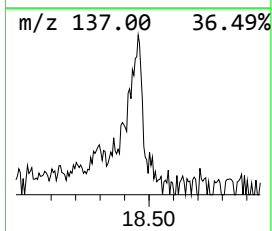
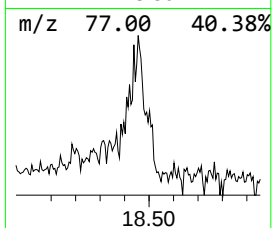
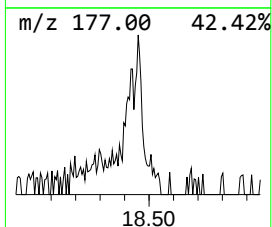
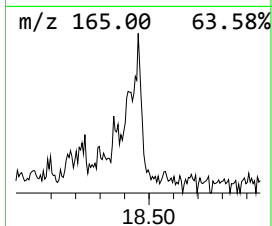
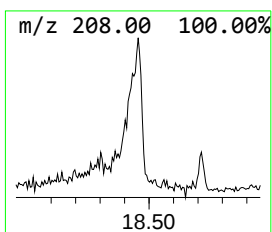
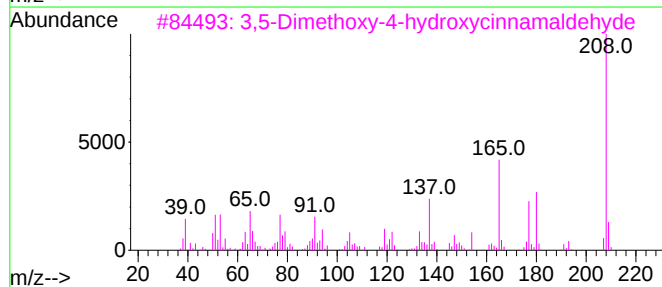
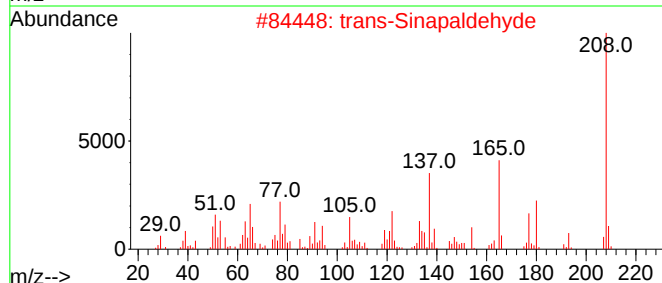
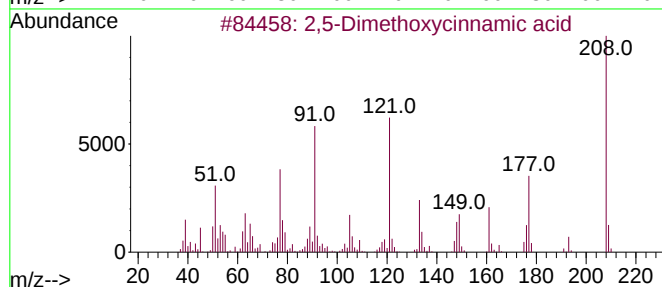
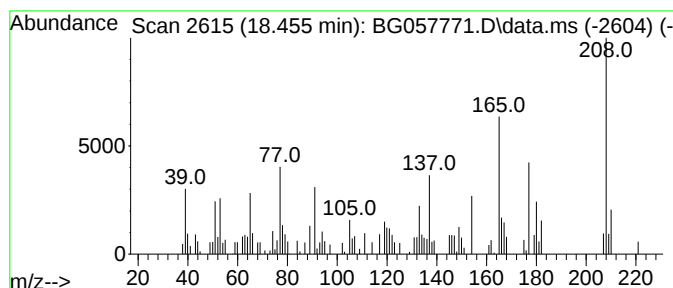
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TIC Library : C:\Database\NIST20.L  
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Peak Number 4 2,5-Dimethoxycinnamic acid Concentration Rank 6

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 18.455    | 3.63 ng                             | 95658 | Phenanthrene-d10 | 17.304       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | 2,5-Dimethoxycinnamic acid          | 208   | C11H12O4         | 010538-51-9  | 55   |
| 2         | trans-Sinapaldehyde                 | 208   | C11H12O4         | 004206-58-0  | 49   |
| 3         | 3,5-Dimethoxy-4-hydroxycinnamal...  | 208   | C11H12O4         | 087345-53-7  | 46   |
| 4         | Coumarin, 7,8-dihydro-7-hydroxy-... | 208   | C10H8O5          | 1000263-13-6 | 43   |
| 5         | 2H-1-Benzopyran-2-one, 7,8-dihyd... | 208   | C10H8O5          | 000574-84-5  | 41   |



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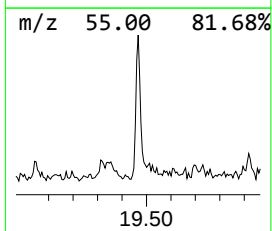
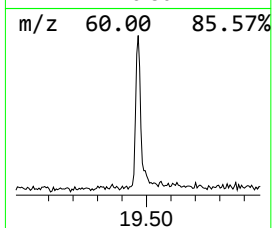
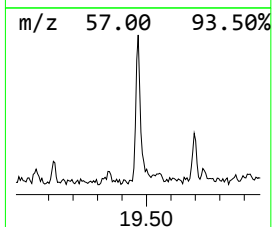
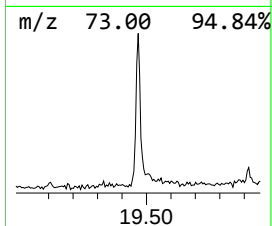
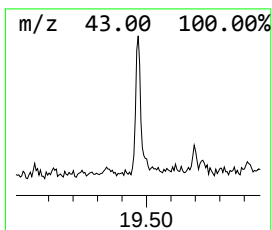
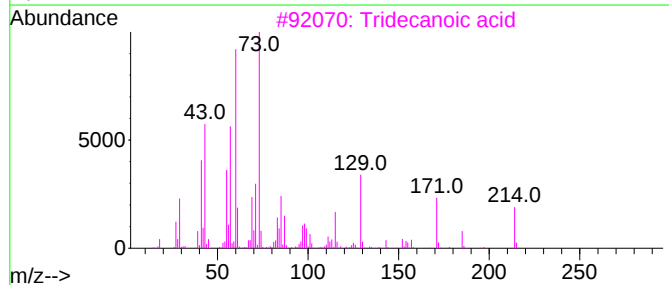
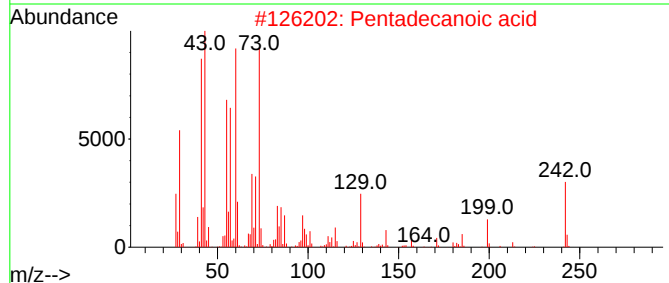
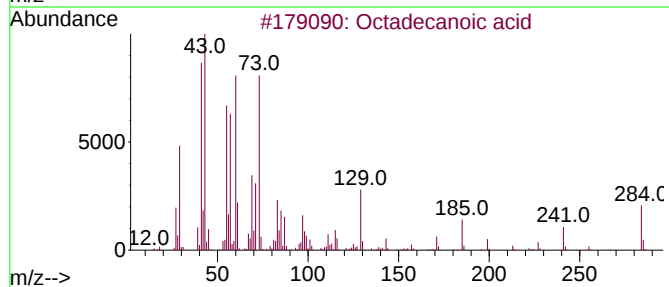
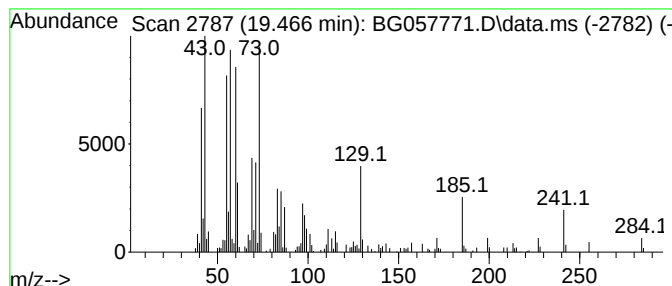
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Octadecanoic acid Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 19.466 | 4.97 ng | 170886 | Chrysene-d12     | 21.552 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Octadecanoic acid                   | 284 | C18H36O2 | 000057-11-4 | 97   |
| 2    |    |   | Pentadecanoic acid                  | 242 | C15H30O2 | 001002-84-2 | 91   |
| 3    |    |   | Tridecanoic acid                    | 214 | C13H26O2 | 000638-53-9 | 90   |
| 4    |    |   | n-Hexadecanoic acid                 | 256 | C16H32O2 | 000057-10-3 | 90   |
| 5    |    |   | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 86   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062023\  
Data File : BG057771.D  
Acq On : 20 Jun 2023 11:26  
Operator : CG/JU  
Sample : 03262-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WS-SOIL2-0615

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG061923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

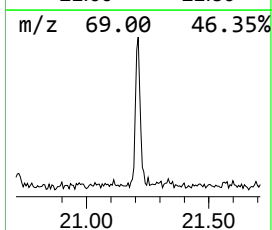
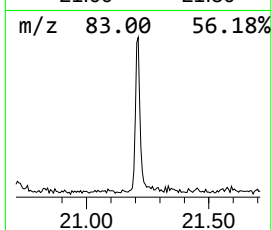
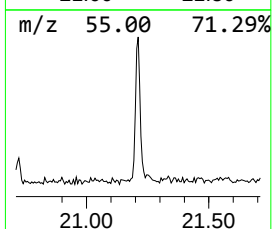
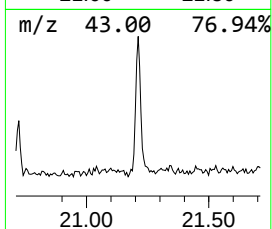
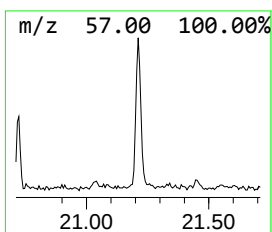
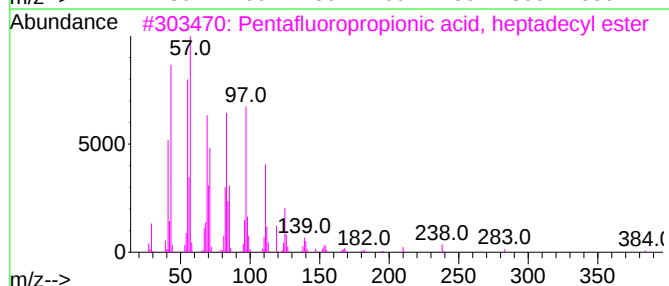
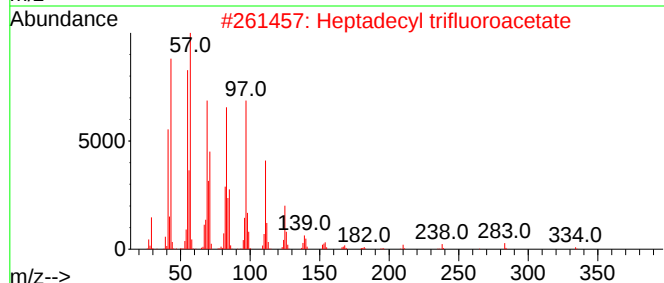
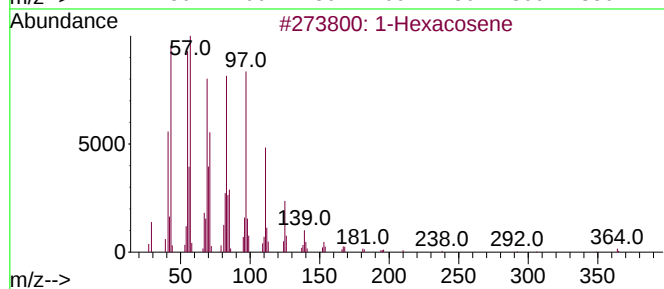
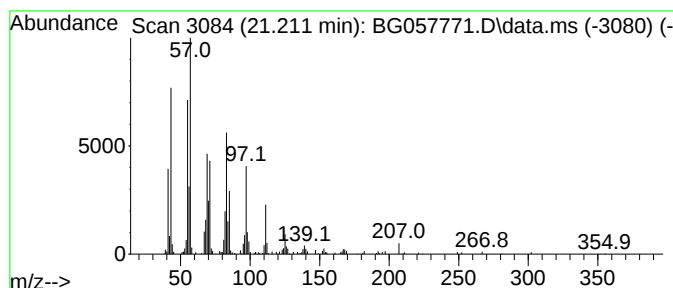
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 1-Hexacosene Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 21.211 | 6.36 ng | 218790 | Chrysene-d12     | 21.552 |

| Hit# | of                                  | 5 | Tentative ID | MW  | MolForm    | CAS#         | Qual |
|------|-------------------------------------|---|--------------|-----|------------|--------------|------|
| 1    | 1-Hexacosene                        |   |              | 364 | C26H52     | 018835-33-1  | 91   |
| 2    | Heptadecyl trifluoroacetate         |   |              | 352 | C19H35F3O2 | 1010351-87-0 | 91   |
| 3    | Pentafluoropropionic acid, hepta... |   |              | 402 | C20H35F5O2 | 959218-78-1  | 91   |
| 4    | Heptadecyl heptafluorobutyrate      |   |              | 452 | C21H35F7O2 | 959085-66-6  | 91   |
| 5    | Tricosyl trifluoroacetate           |   |              | 436 | C25H47F3O2 | 1000351-75-1 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062023\  
Data File : BG057771.D  
Acq On : 20 Jun 2023 11:26  
Operator : CG/JU  
Sample : 03262-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WS-SOIL2-0615

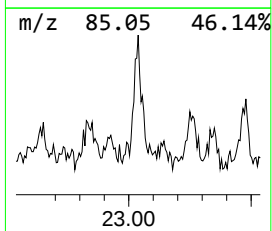
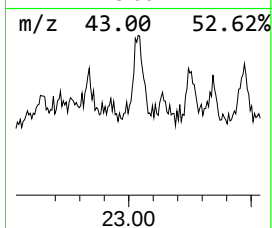
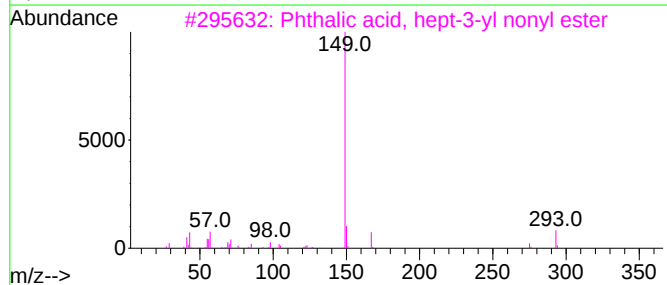
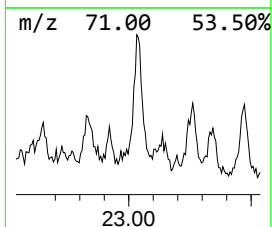
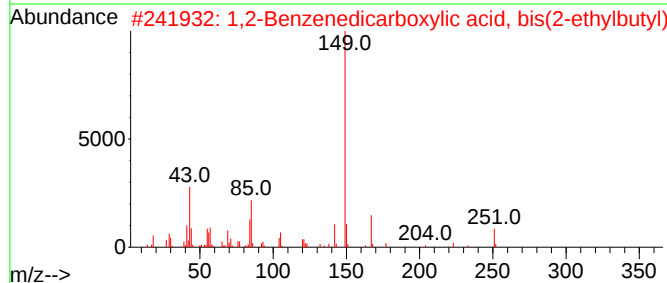
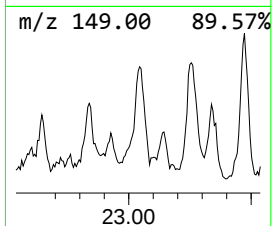
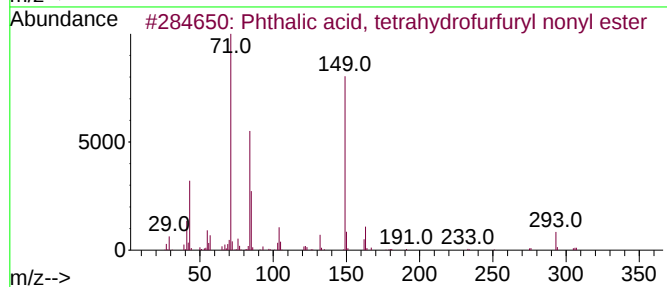
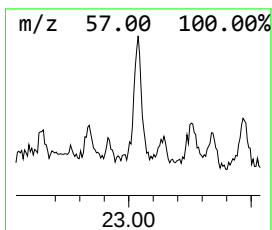
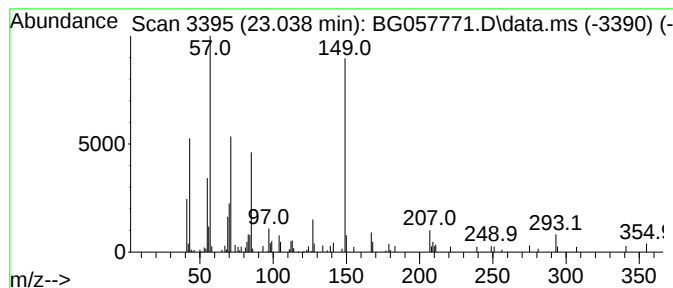
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 unknown23.038 Concentration Rank 8

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 23.038 | 2.98 ng | 102386 | Chrysene-d12     | 21.552 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Phthalic acid, tetrahydrofurfury... | 376 | C22H32O5 | 1000315-30-4 | 47   |
| 2    |    |   | 1,2-Benzenedicarboxylic acid, bi... | 334 | C20H30O4 | 007299-89-0  | 43   |
| 3    |    |   | Phthalic acid, hept-3-yl nonyl e... | 390 | C24H38O4 | 1000356-99-3 | 38   |
| 4    |    |   | Phthalic acid, 1-cyclopentylethy... | 388 | C24H36O4 | 1010309-73-8 | 35   |
| 5    |    |   | Di-isononyl phthlate                | 418 | C26H42O4 | 020548-62-3  | 35   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062023\  
Data File : BG057771.D  
Acq On : 20 Jun 2023 11:26  
Operator : CG/JU  
Sample : 03262-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WS-SOIL2-0615

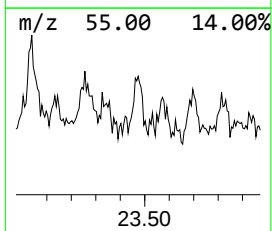
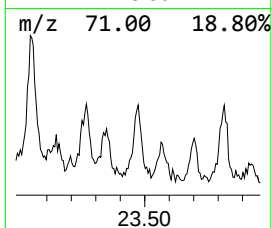
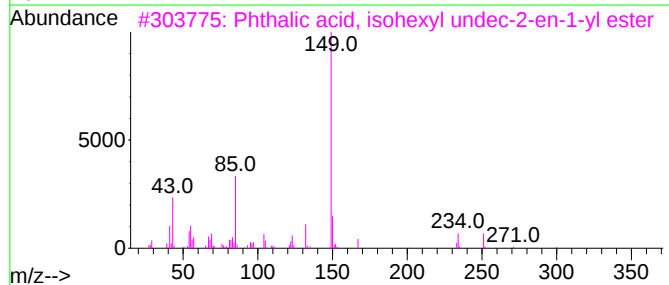
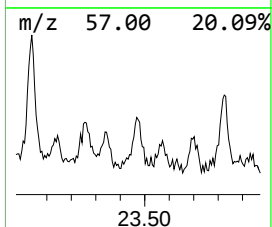
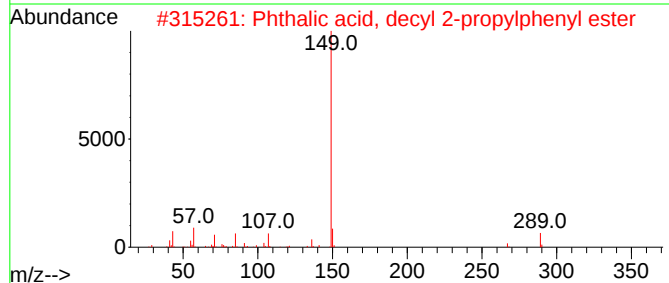
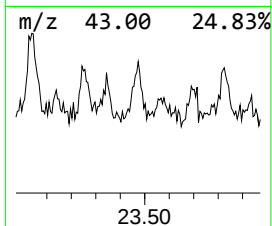
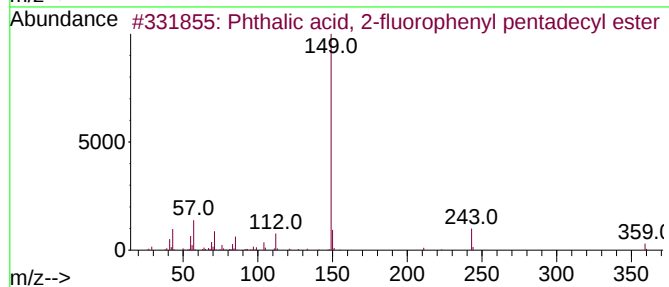
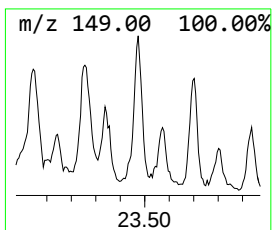
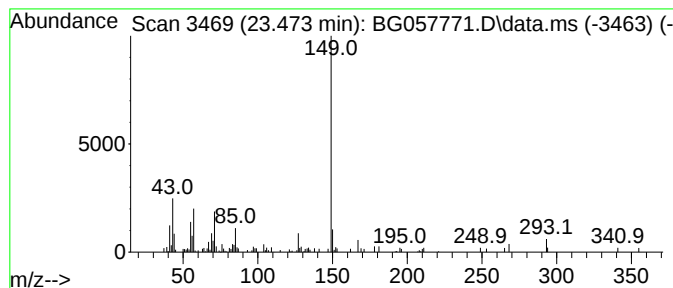
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 Phthalic acid, 2-fluorophen... Concentration Rank 10

| R.T.      | EstConc                             | Area  | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|-------|------------------|--------------|------|
| 23.473    | 2.49 ng                             | 85564 | Perylene-d12     | 24.701       |      |
| Hit# of 5 | Tentative ID                        | MW    | MolForm          | CAS#         | Qual |
| 1         | Phthalic acid, 2-fluorophenyl pe... | 470   | C29H39F04        | 1010356-50-2 | 72   |
| 2         | Phthalic acid, decyl 2-propylphe... | 424   | C27H36O4         | 1000357-02-5 | 64   |
| 3         | Phthalic acid, isohexyl undec-2-... | 402   | C25H38O4         | 1000315-42-4 | 64   |
| 4         | Phthalic acid, hex-2-yn-4-yl iso... | 330   | C20H26O4         | 1000315-20-0 | 64   |
| 5         | Phthalic acid, 2-ethylbutyl hept... | 348   | C21H32O4         | 1000356-89-2 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062023\  
Data File : BG057771.D  
Acq On : 20 Jun 2023 11:26  
Operator : CG/JU  
Sample : 03262-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WS-SOIL2-0615

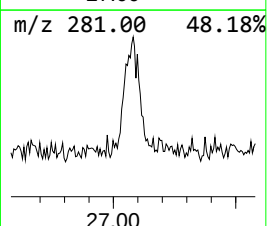
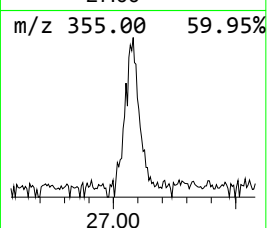
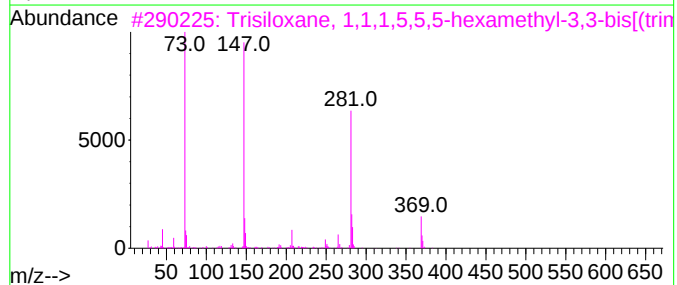
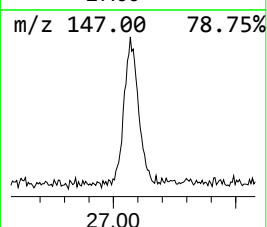
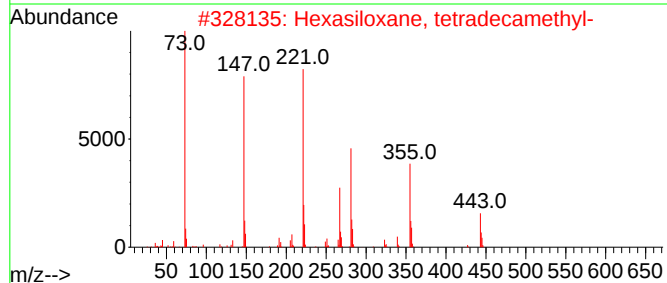
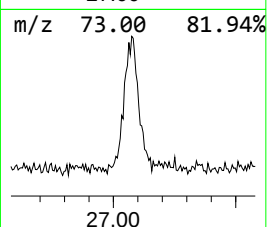
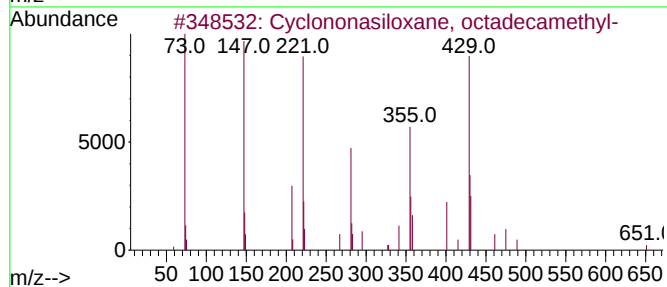
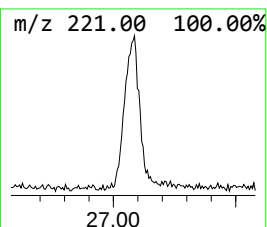
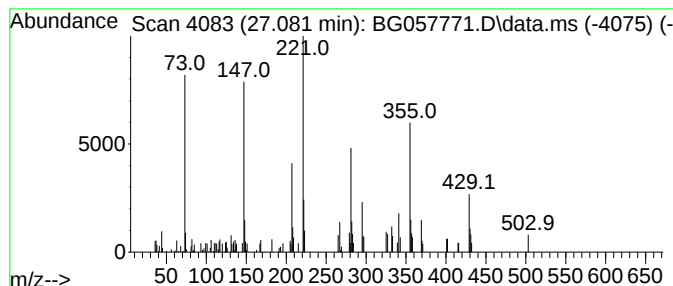
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Cyclononasiloxane, octadeca... Concentration Rank 4

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 27.081 | 5.12 ng | 175698 | Perylene-d12     | 24.701 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Cyclononasiloxane, octadecamethyl-  | 666 | C18H54O9Si9 | 000556-71-8  | 64   |
| 2    |    |   | Hexasiloxane, tetradecamethyl-      | 458 | C14H42O5Si6 | 000107-52-8  | 50   |
| 3    |    |   | Trisiloxane, 1,1,1,5,5,5-hexamet... | 384 | C12H36O4Si5 | 003555-47-3  | 25   |
| 4    |    |   | Tetrahydropyran-4-carboxamide, 4... | 369 | C22H27NO4   | 1010310-01-9 | 18   |
| 5    |    |   | 2-Methyl-6-tert-butylphenol, TBD... | 278 | C17H30O5Si  | 1000467-05-0 | 14   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG062023\  
Data File : BG057771.D  
Acq On : 20 Jun 2023 11:26  
Operator : CG/JU  
Sample : 03262-04  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WS-SOIL2-0615

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG061923.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 |
| 2-Pentanone, 4-... | 5.030  | 9.5     | ng    | 88576    | 1                     | 7.926  | 185671 | 20.0 |
| Benzophenone       | 15.911 | 3.4     | ng    | 61749    | 3                     | 14.560 | 360943 | 20.0 |
| n-Hexadecanoic ... | 18.191 | 16.4    | ng    | 430825   | 4                     | 17.304 | 526834 | 20.0 |
| 2,5-Dimethoxyci... | 18.455 | 3.6     | ng    | 95658    | 4                     | 17.304 | 526834 | 20.0 |
| Octadecanoic acid  | 19.466 | 5.0     | ng    | 170886   | 5                     | 21.552 | 688184 | 20.0 |
| 1-Hexacosene       | 21.211 | 6.4     | ng    | 218790   | 5                     | 21.552 | 688184 | 20.0 |
| unknown23.038      | 23.038 | 3.0     | ng    | 102386   | 5                     | 21.552 | 688184 | 20.0 |
| Phthalic acid, ... | 23.473 | 2.5     | ng    | 85564    | 6                     | 24.701 | 686288 | 20.0 |
| Cyclononasiloxa... | 27.081 | 5.1     | ng    | 175698   | 6                     | 24.701 | 686288 | 20.0 |