

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
 Data File : BM041237.D  
 Acq On : 02 Aug 2023 10:21  
 Operator : MA/JU  
 Sample : 03848-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SU-02-073123

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\_M\Methods\8270-BM072823.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM041237.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         | 5.369       | 364           | 371         | 388          | rBV      | 1445930        | 2119622       | 24.60%          | 2.726%        |
| 2         | 6.981       | 637           | 645         | 659          | rBV      | 1440554        | 2281568       | 26.48%          | 2.934%        |
| 3         | 7.792       | 777           | 783         | 791          | rBV      | 642236         | 1002834       | 11.64%          | 1.290%        |
| 4         | 8.969       | 975           | 983         | 996          | rBV      | 887030         | 1463874       | 16.99%          | 1.883%        |
| 5         | 10.604      | 1246          | 1261        | 1267         | rBV      | 931578         | 1553832       | 18.04%          | 1.998%        |
| 6         | 13.080      | 1675          | 1682        | 1690         | rBV      | 2550351        | 3602887       | 41.82%          | 4.634%        |
| 7         | 14.345      | 1892          | 1897        | 1903         | rBV2     | 78682          | 104894        | 1.22%           | 0.135%        |
| 8         | 14.463      | 1910          | 1917        | 1923         | rBV      | 1550162        | 2183706       | 25.35%          | 2.808%        |
| 9         | 14.527      | 1923          | 1928        | 1935         | rVB      | 97289          | 147958        | 1.72%           | 0.190%        |
| 10        | 14.892      | 1981          | 1990        | 1995         | rBV2     | 260225         | 498446        | 5.79%           | 0.641%        |
| 11        | 15.304      | 2055          | 2060        | 2064         | rVB2     | 107685         | 135957        | 1.58%           | 0.175%        |
| 12        | 15.515      | 2091          | 2096        | 2100         | rBV      | 121027         | 172771        | 2.01%           | 0.222%        |
| 13        | 15.962      | 2166          | 2172        | 2179         | rBV      | 2340864        | 3104574       | 36.04%          | 3.993%        |
| 14        | 16.168      | 2203          | 2207        | 2219         | rVB      | 135293         | 271963        | 3.16%           | 0.350%        |
| 15        | 16.968      | 2337          | 2343        | 2347         | rBV3     | 187165         | 280387        | 3.25%           | 0.361%        |
| 16        | 17.039      | 2353          | 2355        | 2363         | rVB      | 111268         | 148298        | 1.72%           | 0.191%        |
| 17        | 17.221      | 2380          | 2386        | 2390         | rBV      | 2084487        | 2863394       | 33.24%          | 3.683%        |
| 18        | 17.262      | 2390          | 2393        | 2400         | rVV      | 1647412        | 2277135       | 26.43%          | 2.929%        |
| 19        | 17.356      | 2404          | 2409        | 2413         | rVB      | 353318         | 490311        | 5.69%           | 0.631%        |
| 20        | 17.639      | 2449          | 2457        | 2464         | rBV      | 309431         | 541064        | 6.28%           | 0.696%        |
| 21        | 17.709      | 2465          | 2469        | 2472         | rVV      | 140075         | 157114        | 1.82%           | 0.202%        |
| 22        | 17.809      | 2482          | 2486        | 2494         | rVB3     | 53665          | 97062         | 1.13%           | 0.125%        |
| 23        | 17.892      | 2495          | 2500        | 2505         | rBV      | 1324469        | 1569659       | 18.22%          | 2.019%        |
| 24        | 18.127      | 2531          | 2540        | 2553         | rBV2     | 2582448        | 4538137       | 52.68%          | 5.836%        |
| 25        | 18.233      | 2555          | 2558        | 2563         | rVV      | 129531         | 199145        | 2.31%           | 0.256%        |
| 26        | 18.298      | 2564          | 2569        | 2573         | rVV2     | 325292         | 568341        | 6.60%           | 0.731%        |
| 27        | 18.333      | 2573          | 2575        | 2582         | rVB2     | 158547         | 211681        | 2.46%           | 0.272%        |
| 28        | 18.403      | 2583          | 2587        | 2592         | rBV2     | 195237         | 284572        | 3.30%           | 0.366%        |
| 29        | 18.603      | 2618          | 2621        | 2625         | rVB      | 140246         | 174782        | 2.03%           | 0.225%        |
| 30        | 18.656      | 2626          | 2630        | 2639         | rVB3     | 151284         | 239880        | 2.78%           | 0.309%        |
| 31        | 18.992      | 2683          | 2687        | 2688         | rBV3     | 79097          | 108549        | 1.26%           | 0.140%        |
| 32        | 19.039      | 2689          | 2695        | 2698         | rVV      | 7261448        | 8614957       | 100.00%         | 11.080%       |
| 33        | 19.074      | 2698          | 2701        | 2712         | rVB2     | 3470643        | 4867881       | 56.50%          | 6.261%        |
| 34        | 19.168      | 2713          | 2717        | 2719         | rBV2     | 86248          | 141571        | 1.64%           | 0.182%        |
| 35        | 19.203      | 2719          | 2723        | 2729         | rVB      | 759558         | 873636        | 10.14%          | 1.124%        |
| 36        | 19.262      | 2729          | 2733        | 2734         | rBV      | 333278         | 396755        | 4.61%           | 0.510%        |

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 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SU-02-073123

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\_M\Methods\8270-BM072823.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 19.292 | 2734 | 2738 | 2745 | rVB  | 3398897 | 4322441 | 50.17% | 5.559% |
| 38 | 19.403 | 2753 | 2757 | 2767 | rBV  | 1130355 | 1558393 | 18.09% | 2.004% |
| 39 | 19.627 | 2790 | 2795 | 2796 | rBV2 | 689991  | 898069  | 10.42% | 1.155% |
| 40 | 19.656 | 2796 | 2800 | 2808 | rVB  | 2345798 | 3204353 | 37.20% | 4.121% |
| 41 | 19.727 | 2809 | 2812 | 2818 | rVB2 | 166454  | 230845  | 2.68%  | 0.297% |
| 42 | 19.862 | 2829 | 2835 | 2839 | rVB  | 4620510 | 5513544 | 64.00% | 7.091% |
| 43 | 19.974 | 2850 | 2854 | 2856 | rBV2 | 198786  | 292716  | 3.40%  | 0.376% |
| 44 | 20.156 | 2881 | 2885 | 2890 | rVB2 | 785960  | 1036308 | 12.03% | 1.333% |
| 45 | 20.250 | 2898 | 2901 | 2905 | rBV  | 433341  | 535117  | 6.21%  | 0.688% |
| 46 | 20.350 | 2915 | 2918 | 2922 | rVB  | 192928  | 235977  | 2.74%  | 0.303% |
| 47 | 20.450 | 2933 | 2935 | 2938 | rBV  | 131161  | 136696  | 1.59%  | 0.176% |
| 48 | 20.656 | 2967 | 2970 | 2975 | rBV  | 315728  | 385260  | 4.47%  | 0.495% |
| 49 | 20.909 | 3010 | 3013 | 3018 | rVB  | 198718  | 257484  | 2.99%  | 0.331% |
| 50 | 21.068 | 3037 | 3040 | 3044 | rBV  | 360934  | 460316  | 5.34%  | 0.592% |
| 51 | 21.127 | 3044 | 3050 | 3055 | rBV3 | 588031  | 1159132 | 13.45% | 1.491% |
| 52 | 21.427 | 3094 | 3101 | 3105 | rBV3 | 2629764 | 5024398 | 58.32% | 6.462% |
| 53 | 21.462 | 3105 | 3107 | 3114 | rVB  | 1386991 | 1640477 | 19.04% | 2.110% |
| 54 | 23.591 | 3466 | 3469 | 3476 | rVB  | 488600  | 765017  | 8.88%  | 0.984% |
| 55 | 23.803 | 3500 | 3505 | 3510 | rVB  | 1072960 | 1809482 | 21.00% | 2.327% |

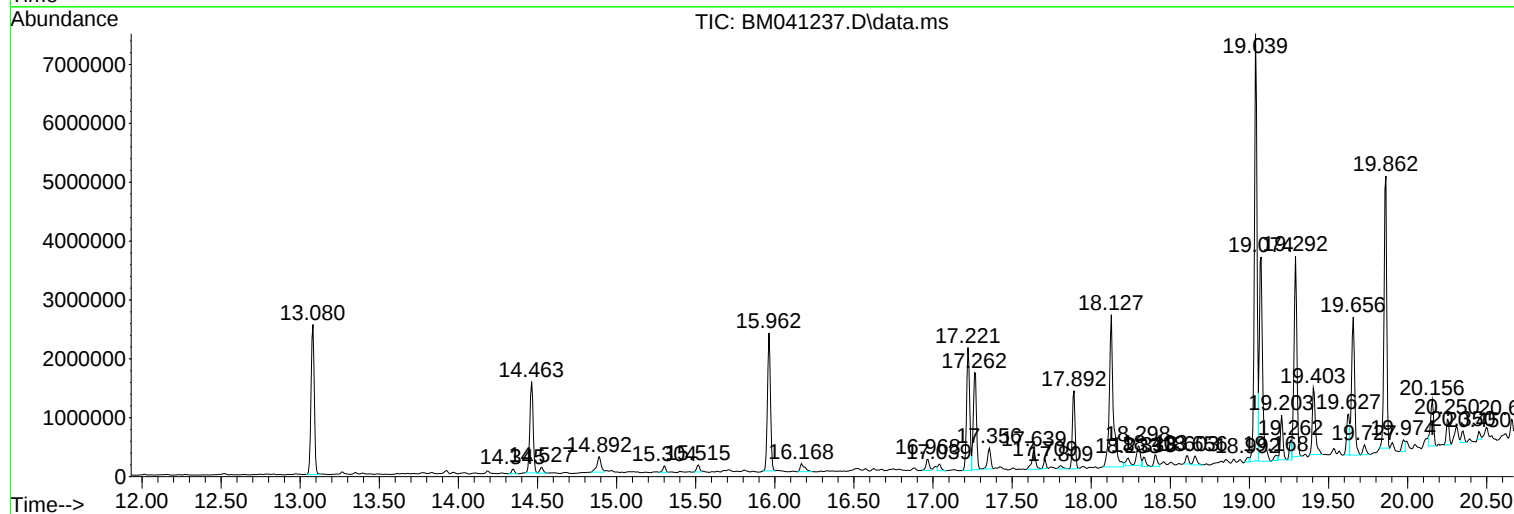
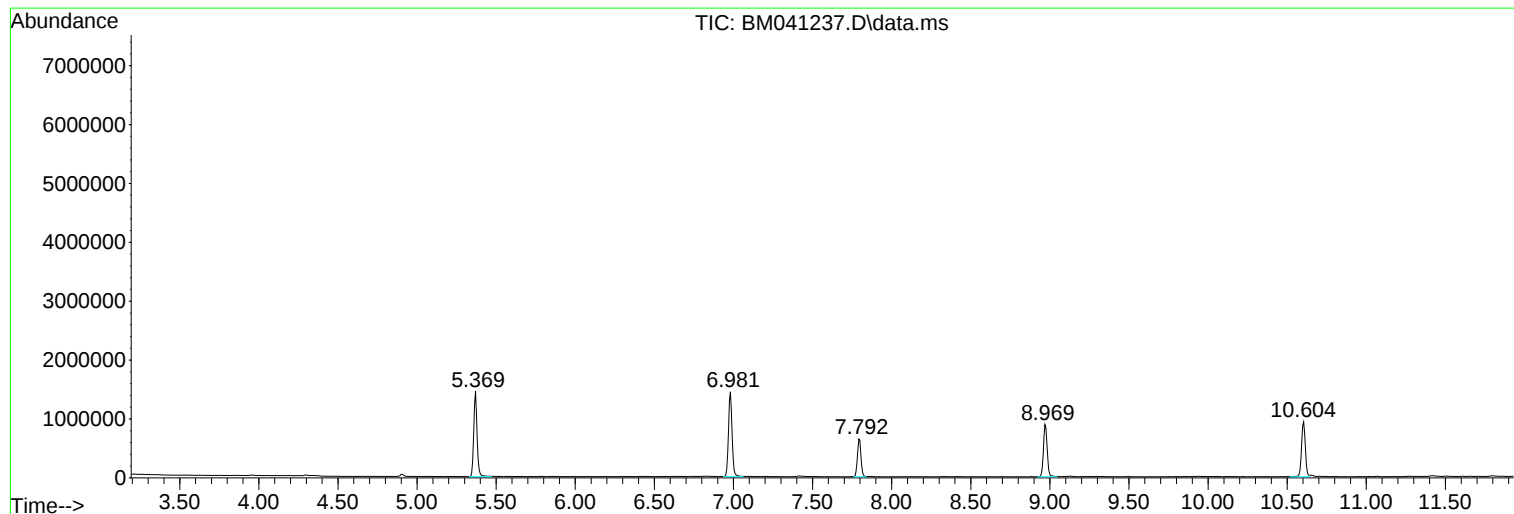
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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.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\_M\Data\BM080223\  
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Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

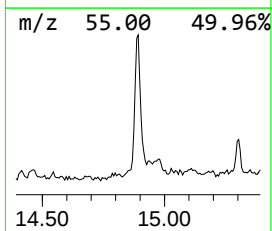
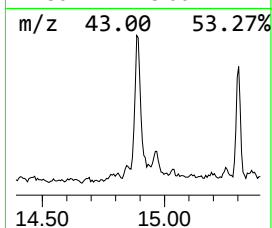
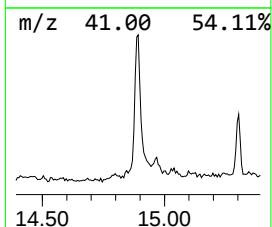
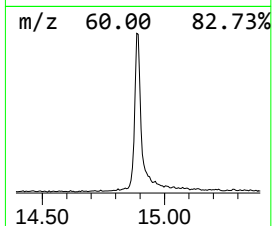
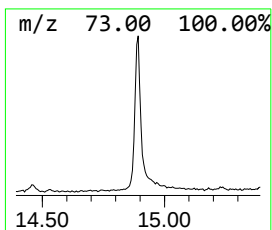
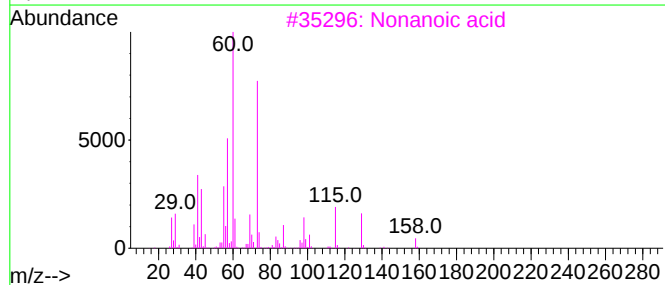
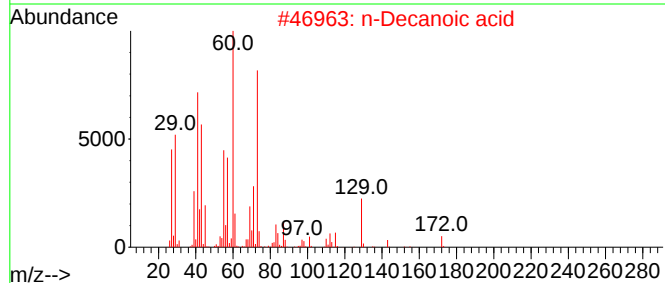
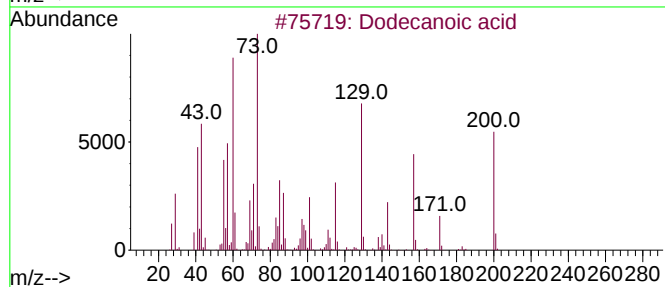
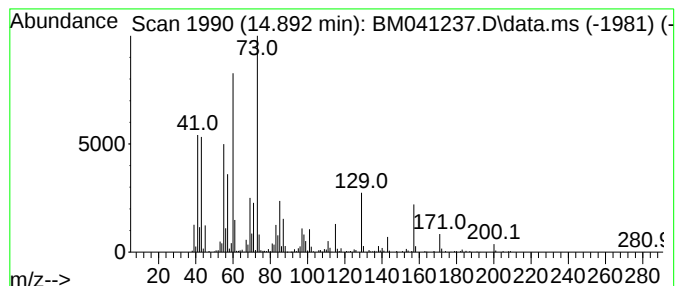
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Dodecanoic acid Concentration Rank 9

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 14.892 | 4.57 ng | 498446 | Acenaphthene-d10 | 14.463 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|---------------------|-----|----------|--------------|------|
| 1    |    |   | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7  | 95   |
| 2    |    |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5  | 70   |
| 3    |    |   | Nonanoic acid       | 158 | C9H18O2  | 000112-05-0  | 49   |
| 4    |    |   | d-Glucohexodialdose | 178 | C6H10O6  | 1000149-19-1 | 47   |
| 5    |    |   | Hexanoic acid       | 116 | C6H12O2  | 000142-62-1  | 46   |



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ALS Vial : 4 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
SU-02-073123

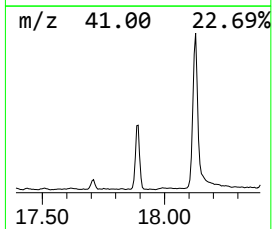
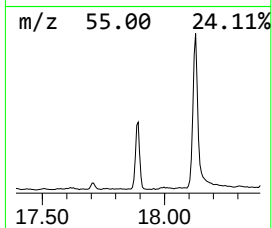
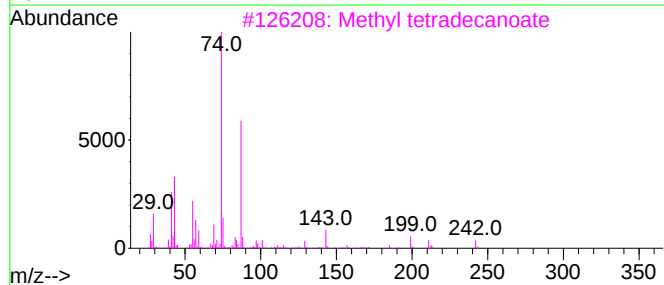
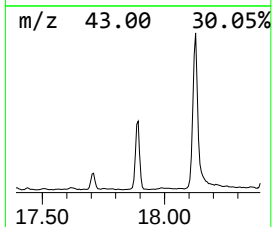
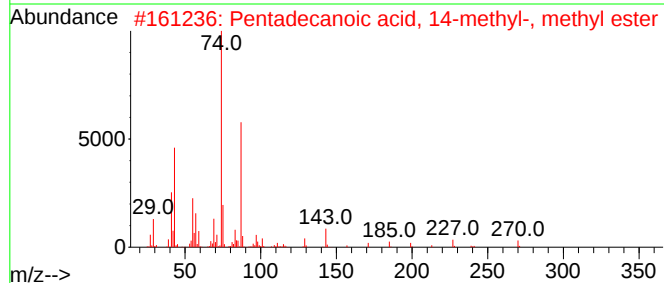
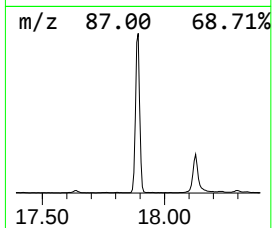
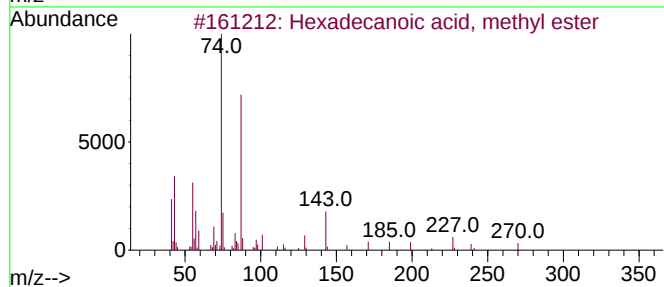
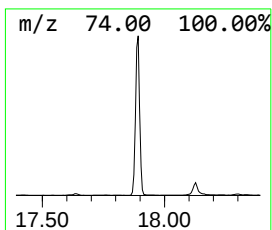
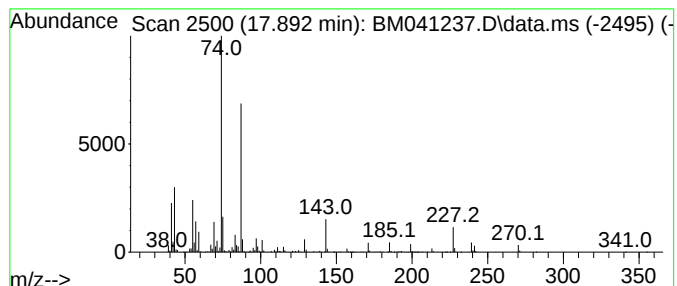
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 Hexadecanoic acid, methyl e... Concentration Rank 4

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 17.892 | 10.96 ng | 1569660 | Phenanthrene-d10 | 17.221 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    |   | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 96   |
| 3    |    |   | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 91   |
| 4    |    |   | Tridecanoic acid, methyl ester      | 228 | C14H28O2 | 001731-88-0 | 90   |
| 5    |    |   | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |



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Instrument :  
BNA\_M  
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SU-02-073123

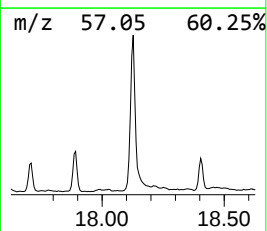
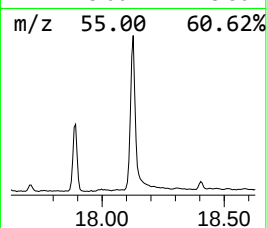
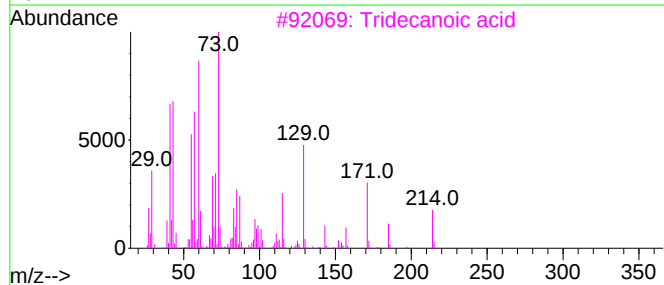
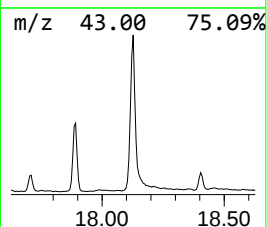
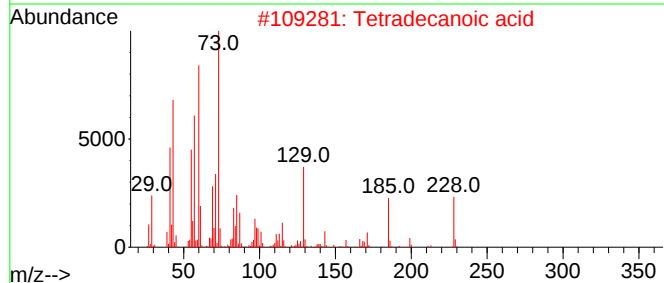
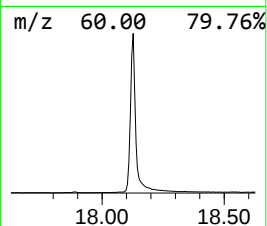
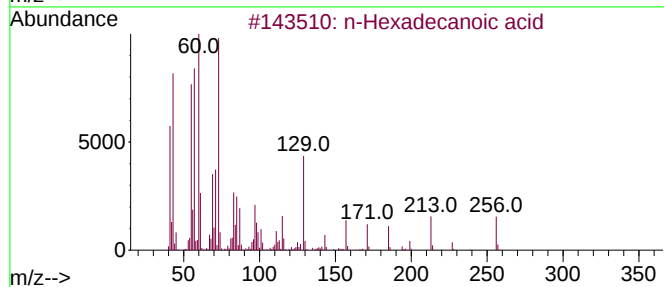
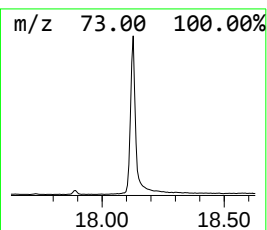
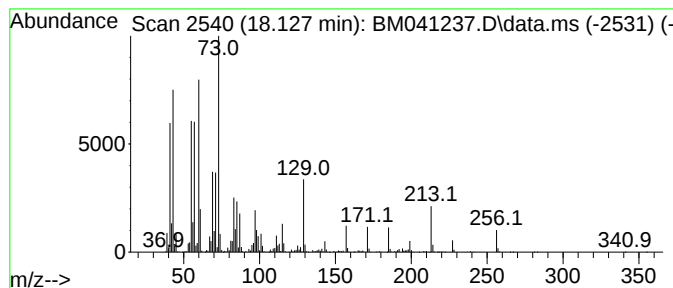
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.   |
|--------|----------|---------|------------------|--------|
| 18.127 | 31.70 ng | 4538140 | Phenanthrene-d10 | 17.221 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99   |
| 2    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 94   |
| 3    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 92   |
| 4    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 87   |
| 5    |    |   | Isopropyl palmitate | 298 | C19H38O2 | 000142-91-6 | 50   |



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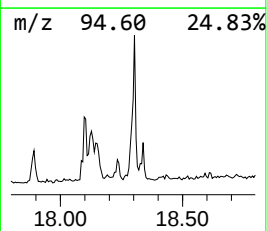
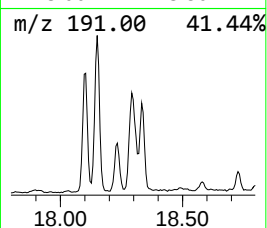
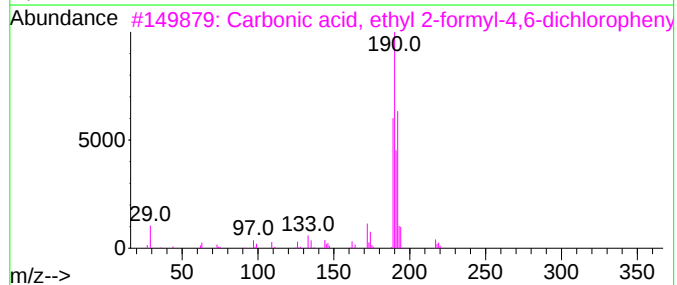
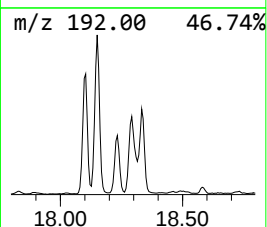
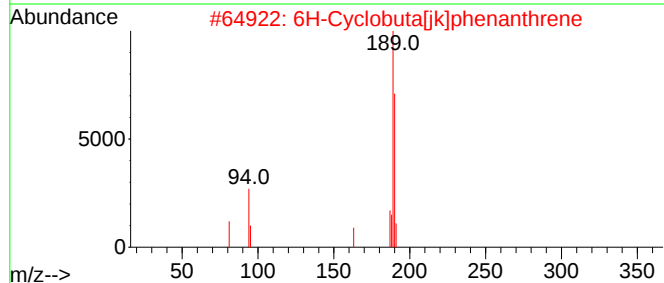
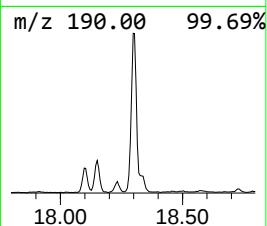
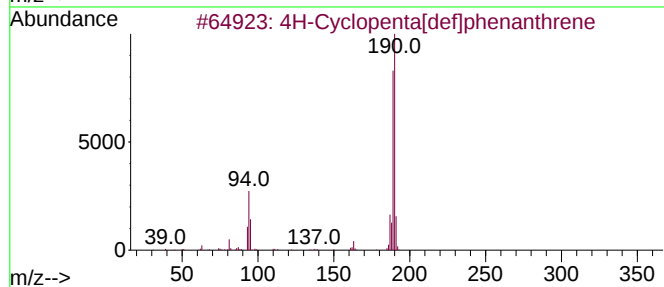
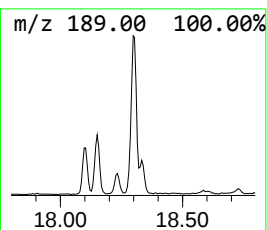
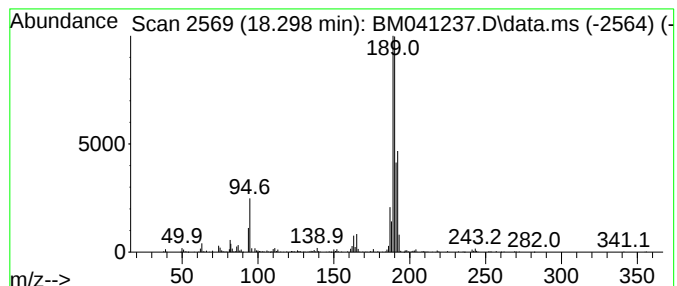
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 11

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.298 | 3.97 ng | 568341 | Phenanthrene-d10 | 17.221 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|------------|--------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 93   |
| 2    |    |   | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10     | 083469-43-6  | 53   |
| 3    |    |   | Carbonic acid, ethyl 2-formyl-4,... | 262 | C10H8Cl2O4 | 1000331-34-4 | 50   |
| 4    |    |   | Methyl diselenide                   | 190 | C2H6Se2    | 007101-31-7  | 43   |
| 5    |    |   | 4,6-Dichloro-2-ethylpyrimidin-5-... | 191 | C6H7Cl2N3  | 006237-96-3  | 43   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
Data File : BM041237.D  
Acq On : 02 Aug 2023 10:21  
Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

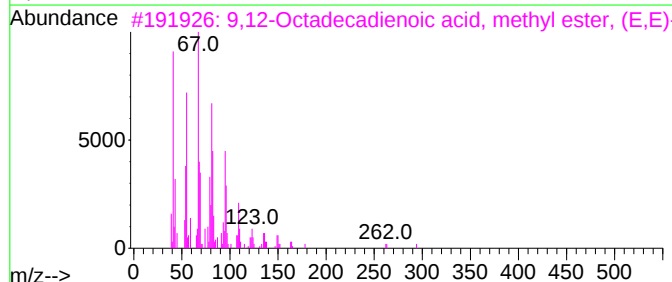
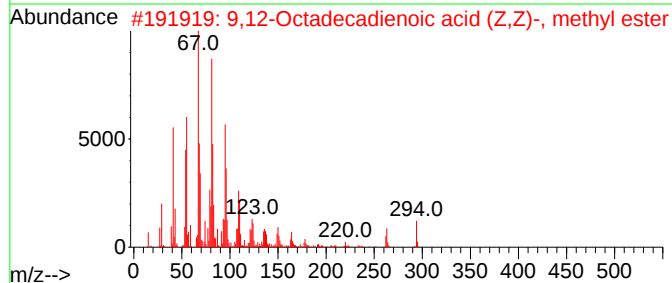
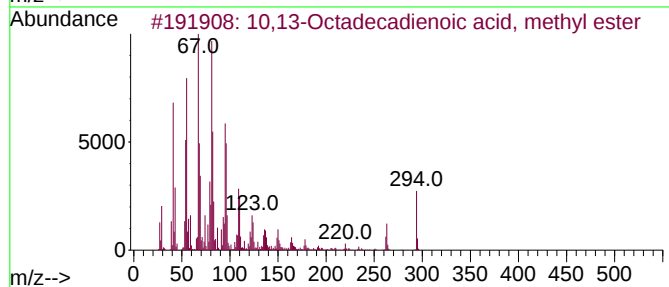
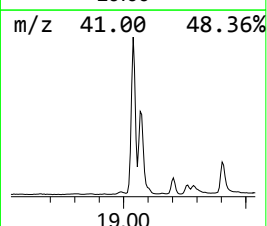
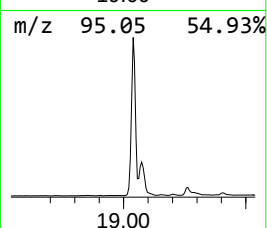
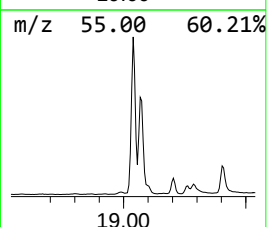
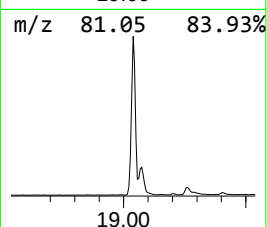
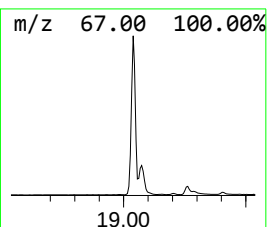
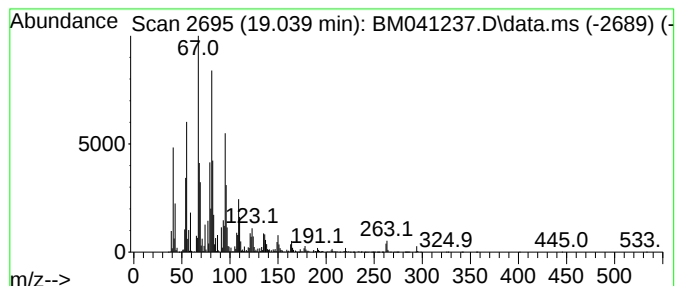
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 10,13-Octadecadienoic acid,... Concentration Rank 1

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 19.039 | 60.17 ng | 8614960 | Phenanthrene-d10 | 17.221 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 98   |
| 2    |    |   | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 98   |
| 3    |    |   | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 98   |
| 4    |    |   | 9,12-Octadecadienoic acid (Z,Z)-    | 280 | C18H32O2 | 000060-33-3 | 95   |
| 5    |    |   | 12,15-Octadecadienoic acid, meth... | 294 | C19H34O2 | 057156-97-5 | 95   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
Data File : BM041237.D  
Acq On : 02 Aug 2023 10:21  
Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

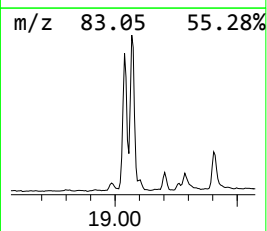
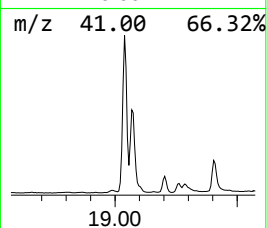
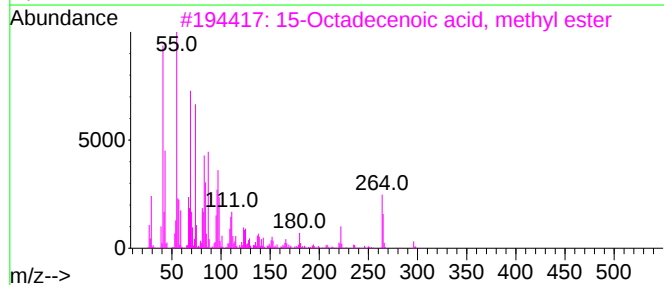
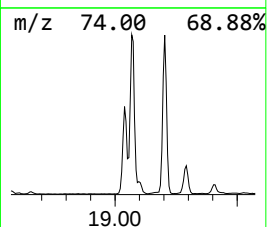
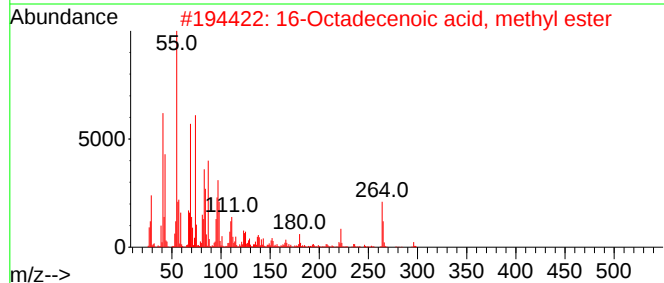
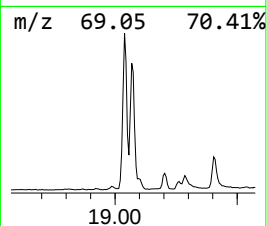
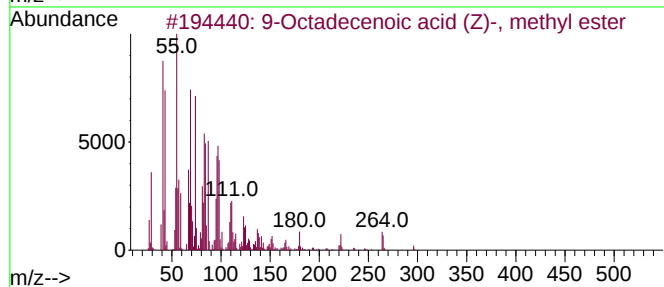
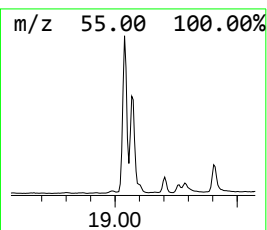
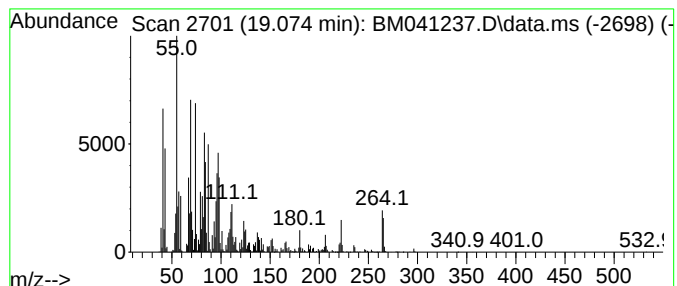
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 19.074 | 34.00 ng | 4867880 | Phenanthrene-d10 | 17.221 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|------|-------------------------------------|-----|----------|-------------|------|
| 1    |      | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99   |
| 2    |      | 16-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-49-5 | 99   |
| 3    |      | 15-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 004764-72-1 | 99   |
| 4    |      | 12-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-46-2 | 99   |
| 5    |      | 13-Octadecenoic acid, methyl ester  | 296 | C19H36O2 | 056554-47-3 | 99   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
Data File : BM041237.D  
Acq On : 02 Aug 2023 10:21  
Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

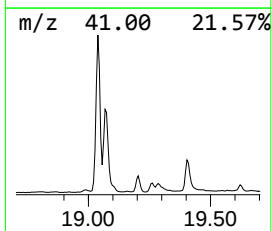
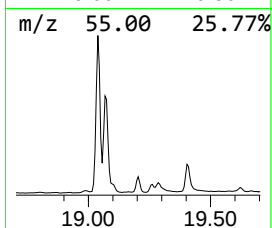
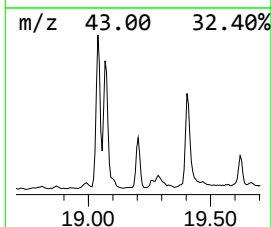
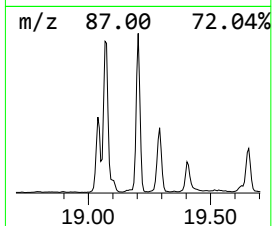
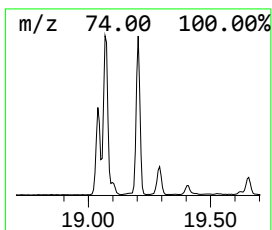
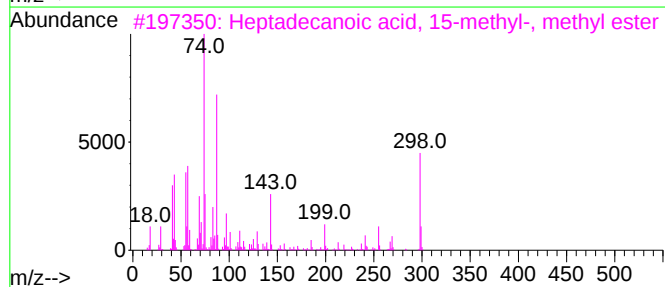
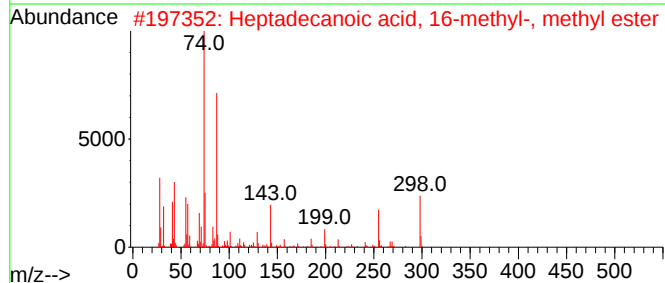
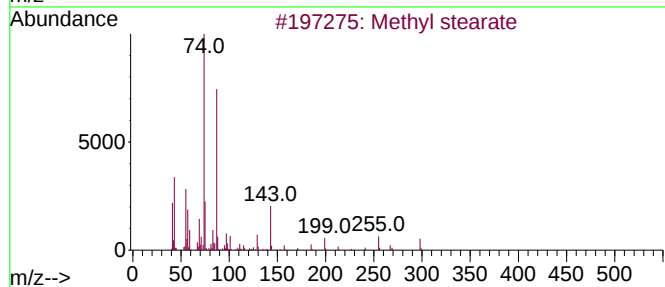
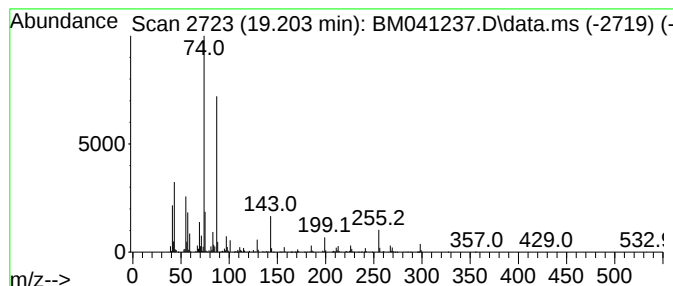
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Methyl stearate Concentration Rank 7

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 19.203 | 6.10 ng | 873636 | Phenanthrene-d10 | 17.221 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Methyl stearate                     | 298 | C19H38O2 | 000112-61-8 | 98   |
| 2    |    |   | Heptadecanoic acid, 16-methyl-, ... | 298 | C19H38O2 | 005129-61-3 | 92   |
| 3    |    |   | Heptadecanoic acid, 15-methyl-, ... | 298 | C19H38O2 | 054833-55-5 | 90   |
| 4    |    |   | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 87   |
| 5    |    |   | Tridecanoic acid, 12-methyl-, me... | 242 | C15H30O2 | 005129-58-8 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
Data File : BM041237.D  
Acq On : 02 Aug 2023 10:21  
Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

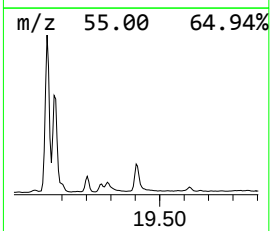
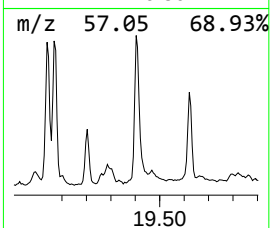
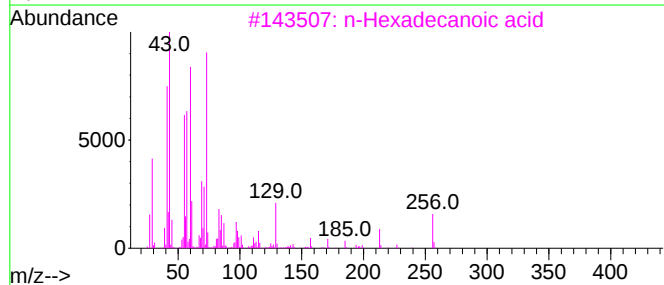
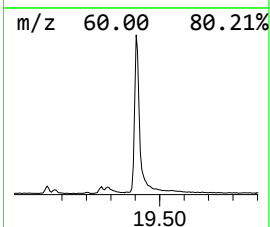
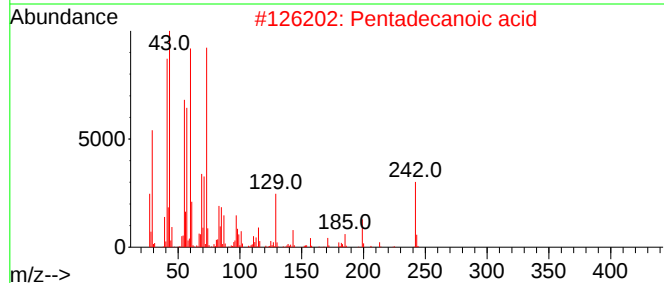
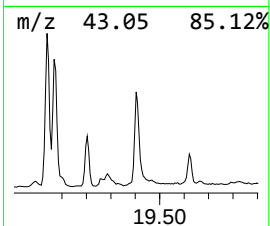
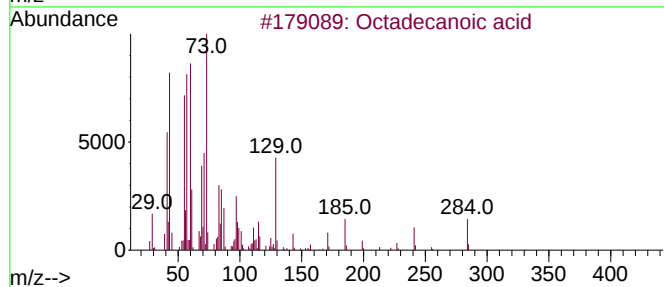
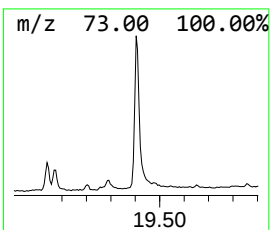
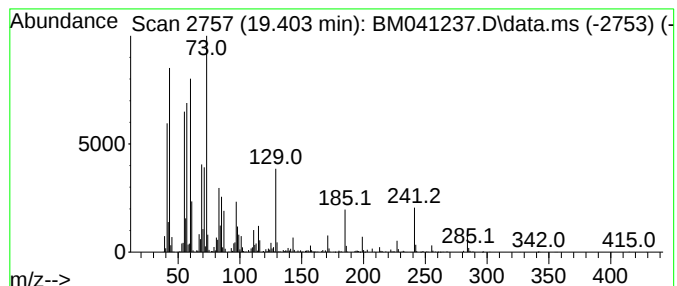
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 Octadecanoic acid Concentration Rank 6

| R.T.   | EstConc | Area    | Relative to ISTD | R.T.   |
|--------|---------|---------|------------------|--------|
| 19.403 | 6.20 ng | 1558390 | Chrysene-d12     | 21.427 |

| Hit# | of | 5 | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|---------------------|-----|----------|-------------|------|
| 1    |    |   | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2    |    |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 91   |
| 3    |    |   | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 90   |
| 4    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 87   |
| 5    |    |   | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 74   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
Data File : BM041237.D  
Acq On : 02 Aug 2023 10:21  
Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

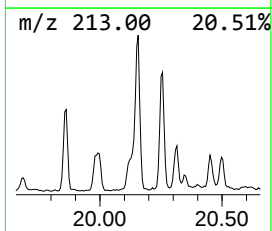
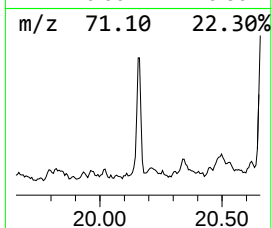
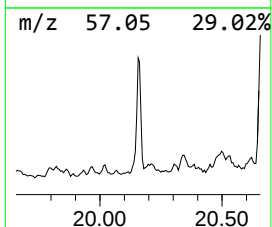
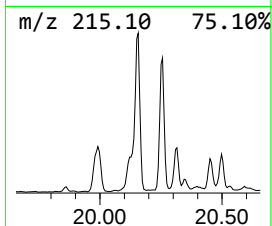
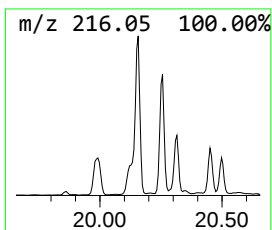
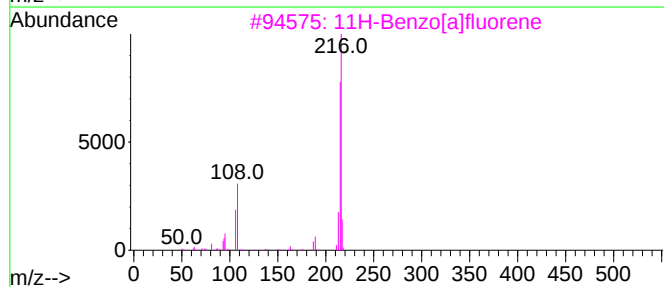
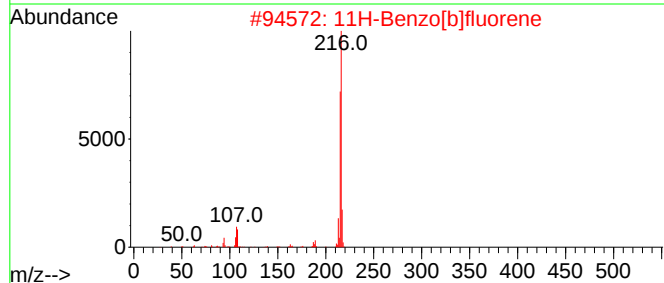
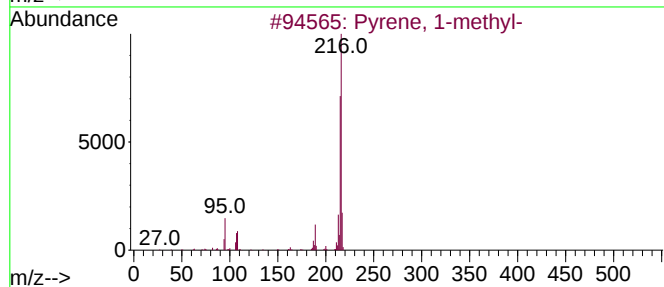
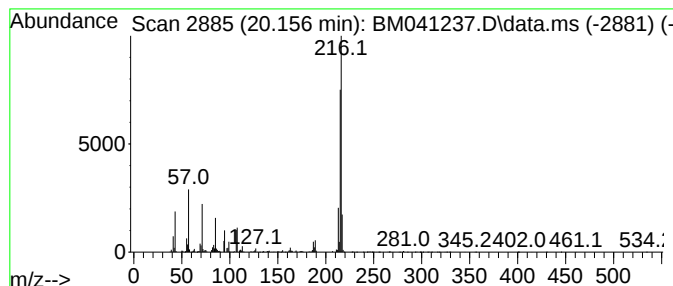
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Pyrene, 1-methyl- Concentration Rank 10

| R.T.   | EstConc | Area    | Relative to ISTD | R.T.   |
|--------|---------|---------|------------------|--------|
| 20.156 | 4.13 ng | 1036310 | Chrysene-d12     | 21.427 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 83   |
| 2    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 81   |
| 3    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 76   |
| 4    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 76   |
| 5    |    |   | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
Data File : BM041237.D  
Acq On : 02 Aug 2023 10:21  
Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

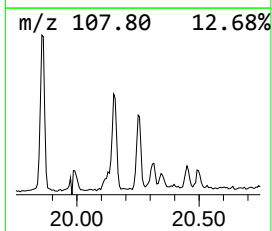
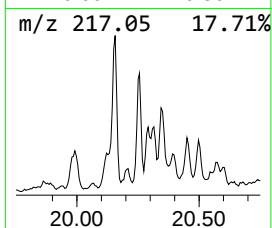
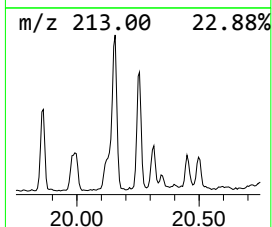
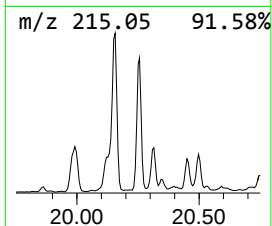
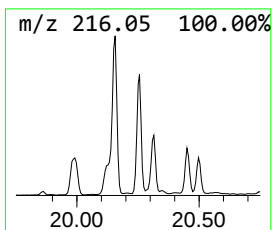
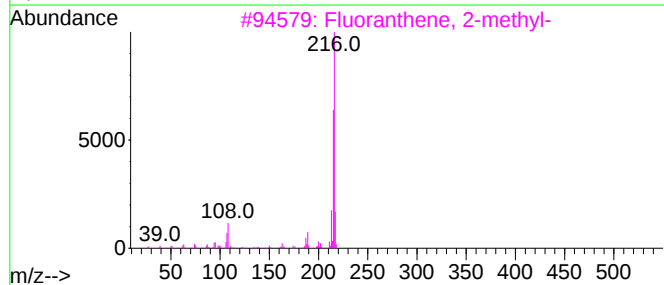
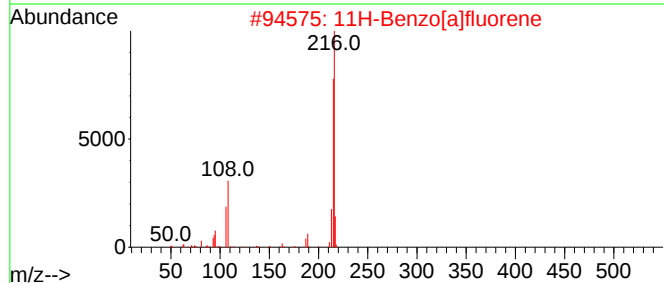
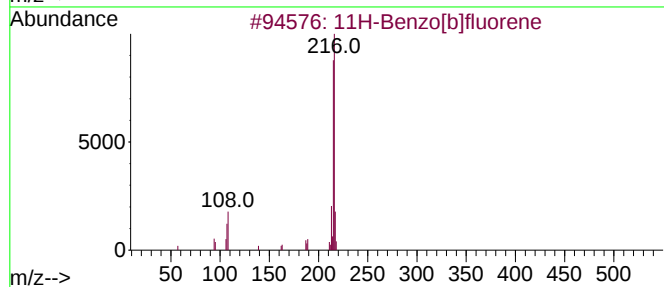
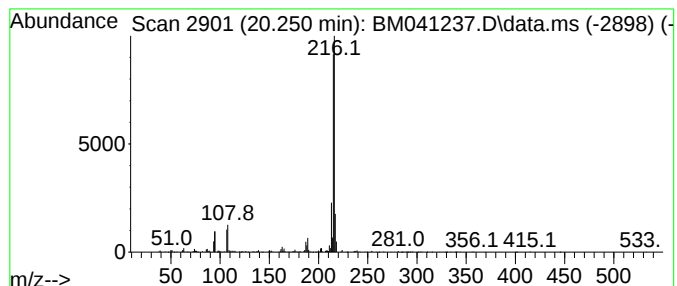
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 11H-Benzo[b]fluorene Concentration Rank 12

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 20.250 | 2.13 ng | 535117 | Chrysene-d12     | 21.427 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 96   |
| 2    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 91   |
| 3    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 91   |
| 4    |    |   | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 87   |
| 5    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 70   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
Data File : BM041237.D  
Acq On : 02 Aug 2023 10:21  
Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

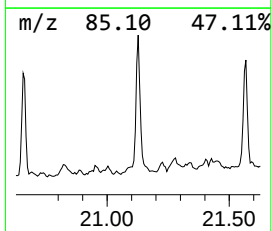
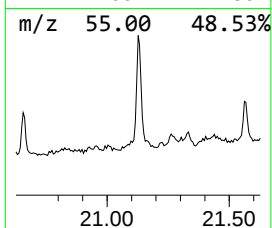
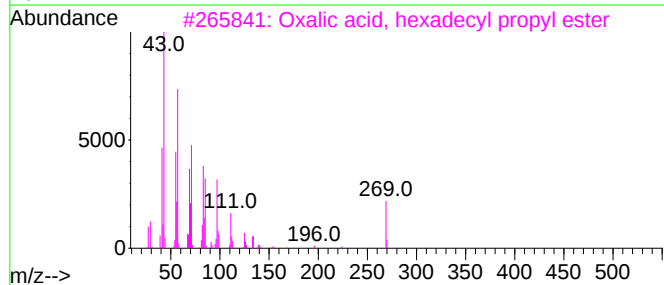
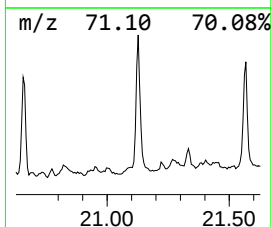
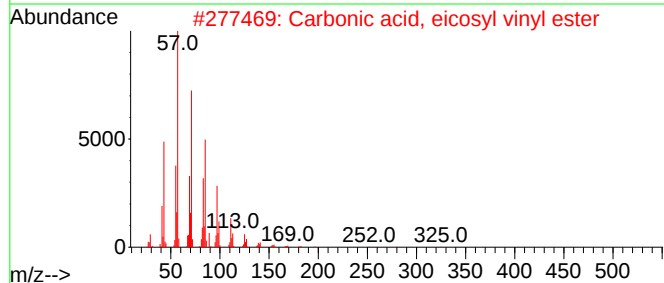
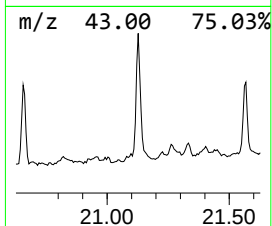
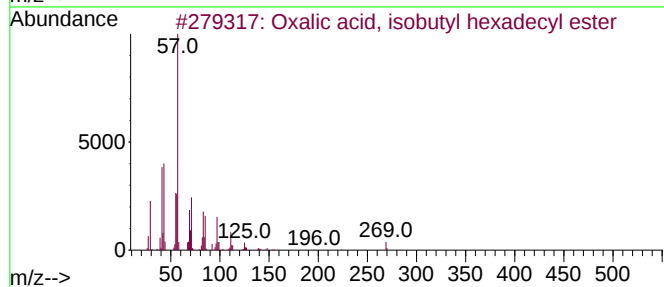
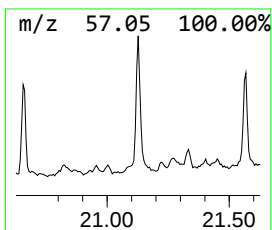
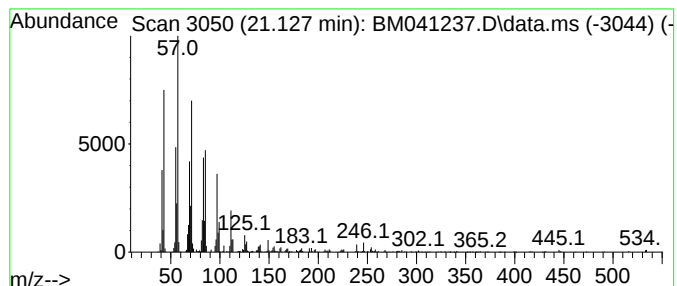
Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 Oxalic acid, isobutyl hexad... Concentration Rank 8

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|---------|------------------|--------------|------|
| 21.127    | 4.61 ng                             | 1159130 | Chrysene-d12     | 21.427       |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#         | Qual |
| 1         | Oxalic acid, isobutyl hexadecyl ... | 370     | C22H42O4         | 1000309-38-1 | 87   |
| 2         | Carbonic acid, eicosyl vinyl ester  | 368     | C23H44O3         | 1000382-54-3 | 87   |
| 3         | Oxalic acid, hexadecyl propyl ester | 356     | C21H40O4         | 1000309-26-9 | 87   |
| 4         | Carbonic acid, decyl heptadecyl ... | 440     | C28H56O3         | 1000383-16-6 | 87   |
| 5         | Carbonic acid, decyl pentadecyl ... | 412     | C26H52O3         | 1000383-16-4 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
Data File : BM041237.D  
Acq On : 02 Aug 2023 10:21  
Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

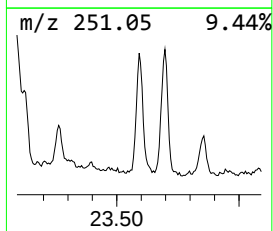
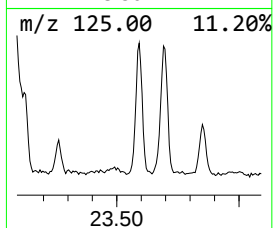
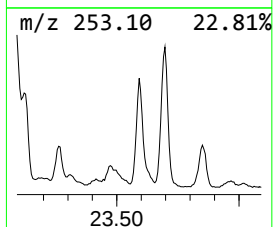
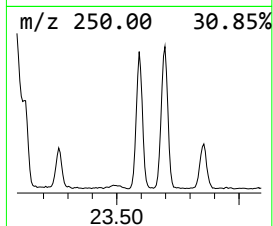
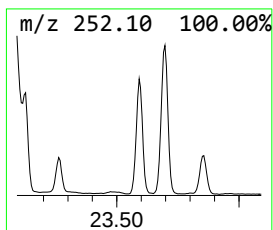
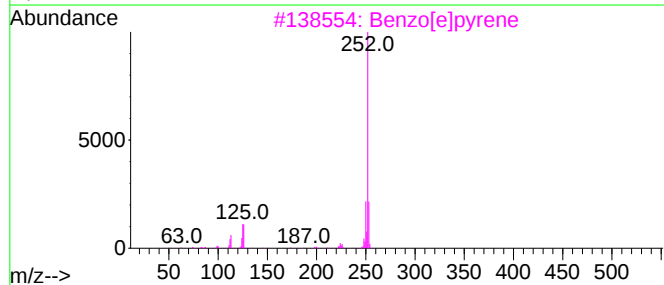
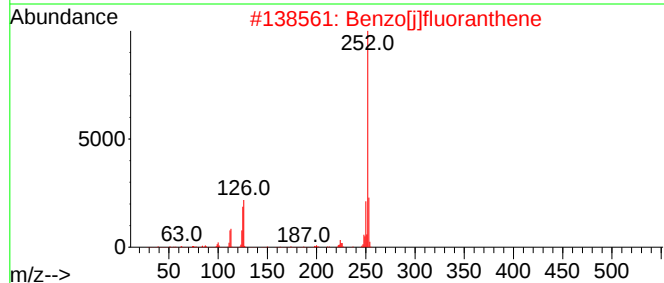
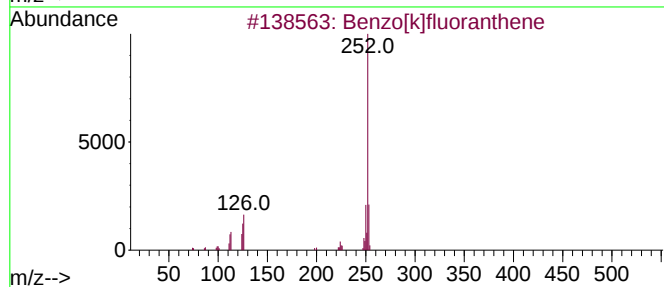
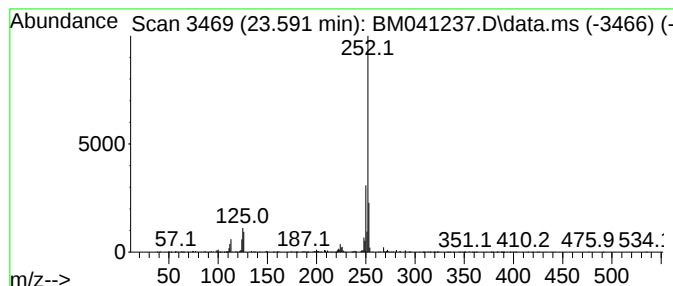
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 Benzo[j]fluoranthene Concentration Rank 5

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 23.591 | 8.46 ng | 765017 | Perylene-d12     | 23.803 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 97   |
| 2    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 96   |
| 3    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 95   |
| 4    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 94   |
| 5    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 93   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080223\  
Data File : BM041237.D  
Acq On : 02 Aug 2023 10:21  
Operator : MA/JU  
Sample : 03848-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SU-02-073123

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM072823.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 |
| Dodecanoic acid    | 14.892 | 4.6     | ng    | 498446   | 3                     | 14.463 | 2183710 | 20.0 |
| Hexadecanoic ac... | 17.892 | 11.0    | ng    | 1569660  | 4                     | 17.221 | 2863390 | 20.0 |
| n-Hexadecanoic ... | 18.127 | 31.7    | ng    | 4538140  | 4                     | 17.221 | 2863390 | 20.0 |
| 4H-Cyclopenta[d... | 18.298 | 4.0     | ng    | 568341   | 4                     | 17.221 | 2863390 | 20.0 |
| 10,13-Octadecad... | 19.039 | 60.2    | ng    | 8614960  | 4                     | 17.221 | 2863390 | 20.0 |
| 9-Octadecenoic ... | 19.074 | 34.0    | ng    | 4867880  | 4                     | 17.221 | 2863390 | 20.0 |
| Methyl stearate    | 19.203 | 6.1     | ng    | 873636   | 4                     | 17.221 | 2863390 | 20.0 |
| Octadecanoic acid  | 19.403 | 6.2     | ng    | 1558390  | 5                     | 21.427 | 5024400 | 20.0 |
| Pyrene, 1-methyl-  | 20.156 | 4.1     | ng    | 1036310  | 5                     | 21.427 | 5024400 | 20.0 |
| 11H-Benzo[b]flu... | 20.250 | 2.1     | ng    | 535117   | 5                     | 21.427 | 5024400 | 20.0 |
| Oxalic acid, is... | 21.127 | 4.6     | ng    | 1159130  | 5                     | 21.427 | 5024400 | 20.0 |
| Benzo[j]fluoran... | 23.591 | 8.5     | ng    | 765017   | 6                     | 23.803 | 1809480 | 20.0 |