

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032524\  
 Data File : BM044757.D  
 Acq On : 25 Mar 2024 15:58  
 Operator : MA/JU  
 Sample : P1842-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 EO-01-03222024-B

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-BM031324.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BM044757.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         | 3.957       | 144           | 148         | 157          | rVB      | 67011          | 94067         | 1.53%           | 0.155%        |
| 2         | 5.304       | 371           | 377         | 385          | rBV      | 2739531        | 3927008       | 63.88%          | 6.473%        |
| 3         | 5.710       | 441           | 446         | 455          | rBV3     | 43562          | 92060         | 1.50%           | 0.152%        |
| 4         | 6.875       | 635           | 644         | 660          | rBV      | 2478369        | 3951085       | 64.27%          | 6.513%        |
| 5         | 7.345       | 719           | 724         | 730          | rBV3     | 31804          | 68489         | 1.11%           | 0.113%        |
| 6         | 7.692       | 776           | 783         | 790          | rBV      | 680120         | 1055280       | 17.17%          | 1.739%        |
| 7         | 8.222       | 867           | 873         | 879          | rBV      | 38711          | 76114         | 1.24%           | 0.125%        |
| 8         | 8.857       | 973           | 981         | 991          | rBV      | 1446904        | 2497863       | 40.63%          | 4.117%        |
| 9         | 10.469      | 1247          | 1255        | 1261         | rBV      | 769286         | 1338741       | 21.78%          | 2.207%        |
| 10        | 10.522      | 1261          | 1264        | 1270         | rVB2     | 47890          | 73652         | 1.20%           | 0.121%        |
| 11        | 12.951      | 1670          | 1677        | 1694         | rBV      | 2912046        | 4568440       | 74.31%          | 7.530%        |
| 12        | 13.792      | 1816          | 1820        | 1828         | rVB3     | 35491          | 70197         | 1.14%           | 0.116%        |
| 13        | 14.057      | 1860          | 1865        | 1872         | rBV      | 206831         | 349842        | 5.69%           | 0.577%        |
| 14        | 14.339      | 1906          | 1913        | 1919         | rBV      | 971382         | 1505730       | 24.49%          | 2.482%        |
| 15        | 14.398      | 1919          | 1923        | 1930         | rVB      | 57141          | 97294         | 1.58%           | 0.160%        |
| 16        | 14.951      | 2011          | 2017        | 2022         | rBV5     | 29546          | 68349         | 1.11%           | 0.113%        |
| 17        | 15.392      | 2087          | 2092        | 2098         | rBV3     | 56030          | 97986         | 1.59%           | 0.162%        |
| 18        | 15.833      | 2160          | 2167        | 2174         | rBV      | 2501426        | 3744751       | 60.91%          | 6.173%        |
| 19        | 15.898      | 2174          | 2178        | 2185         | rVB3     | 75815          | 145422        | 2.37%           | 0.240%        |
| 20        | 16.074      | 2203          | 2208        | 2213         | rBV4     | 62578          | 118208        | 1.92%           | 0.195%        |
| 21        | 16.504      | 2277          | 2281        | 2284         | rBV4     | 46402          | 68462         | 1.11%           | 0.113%        |
| 22        | 16.751      | 2320          | 2323        | 2330         | rVB2     | 46196          | 70909         | 1.15%           | 0.117%        |
| 23        | 16.909      | 2347          | 2350        | 2360         | rVB      | 67477          | 113807        | 1.85%           | 0.188%        |
| 24        | 17.092      | 2375          | 2381        | 2385         | rBV      | 1226782        | 1768930       | 28.77%          | 2.916%        |
| 25        | 17.133      | 2385          | 2388        | 2394         | rVB      | 833262         | 1115543       | 18.15%          | 1.839%        |
| 26        | 17.227      | 2399          | 2404        | 2408         | rVV      | 371168         | 536903        | 8.73%           | 0.885%        |
| 27        | 17.280      | 2409          | 2413        | 2419         | rVV3     | 57168          | 108928        | 1.77%           | 0.180%        |
| 28        | 17.968      | 2526          | 2530        | 2532         | rBV      | 217926         | 285139        | 4.64%           | 0.470%        |
| 29        | 18.004      | 2532          | 2536        | 2546         | rVB2     | 1383639        | 2045580       | 33.27%          | 3.372%        |
| 30        | 18.098      | 2549          | 2552        | 2558         | rVB      | 145830         | 206456        | 3.36%           | 0.340%        |
| 31        | 18.162      | 2558          | 2563        | 2567         | rBV2     | 339684         | 655980        | 10.67%          | 1.081%        |
| 32        | 18.474      | 2614          | 2616        | 2620         | rVB      | 147711         | 169895        | 2.76%           | 0.280%        |
| 33        | 18.892      | 2683          | 2687        | 2692         | rBV      | 255524         | 423737        | 6.89%           | 0.698%        |
| 34        | 19.033      | 2708          | 2711        | 2715         | rBV      | 193470         | 318157        | 5.18%           | 0.524%        |
| 35        | 19.156      | 2726          | 2732        | 2738         | rBV      | 2784921        | 4079108       | 66.35%          | 6.724%        |
| 36        | 19.292      | 2751          | 2755        | 2763         | rBV2     | 659860         | 1044140       | 16.98%          | 1.721%        |

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Sample : P1842-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
EO-01-03222024-B

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-BM031324.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 37 | 19.521 | 2786 | 2794 | 2802 | rVB  | 2700521 | 4396459 | 71.52%  | 7.247%  |
| 38 | 19.733 | 2826 | 2830 | 2841 | rVB  | 4603813 | 6147535 | 100.00% | 10.133% |
| 39 | 20.356 | 2934 | 2936 | 2943 | rBV  | 297854  | 464027  | 7.55%   | 0.765%  |
| 40 | 20.974 | 3039 | 3041 | 3043 | rBV  | 385671  | 429403  | 6.98%   | 0.708%  |
| 41 | 21.280 | 3089 | 3093 | 3098 | rBV2 | 2380855 | 4847321 | 78.85%  | 7.990%  |
| 42 | 21.327 | 3098 | 3101 | 3109 | rVB  | 1814517 | 2634217 | 42.85%  | 4.342%  |
| 43 | 22.868 | 3359 | 3363 | 3368 | rBV  | 1097145 | 2291342 | 37.27%  | 3.777%  |
| 44 | 23.438 | 3456 | 3460 | 3468 | rVB  | 1322062 | 2505202 | 40.75%  | 4.129%  |

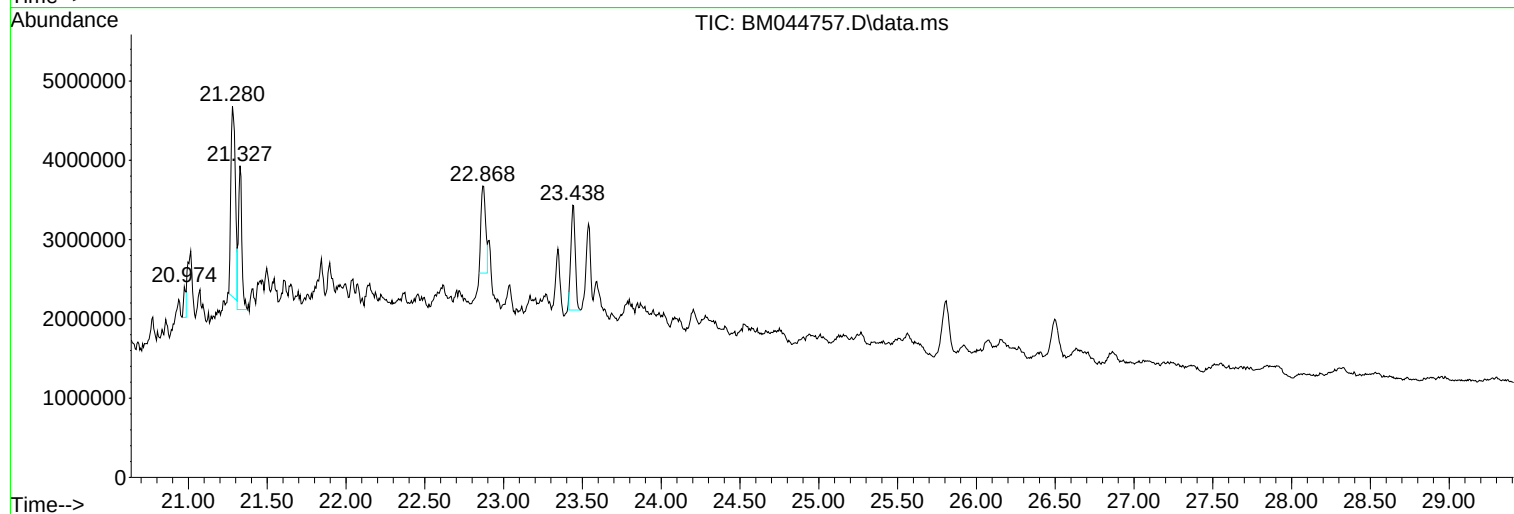
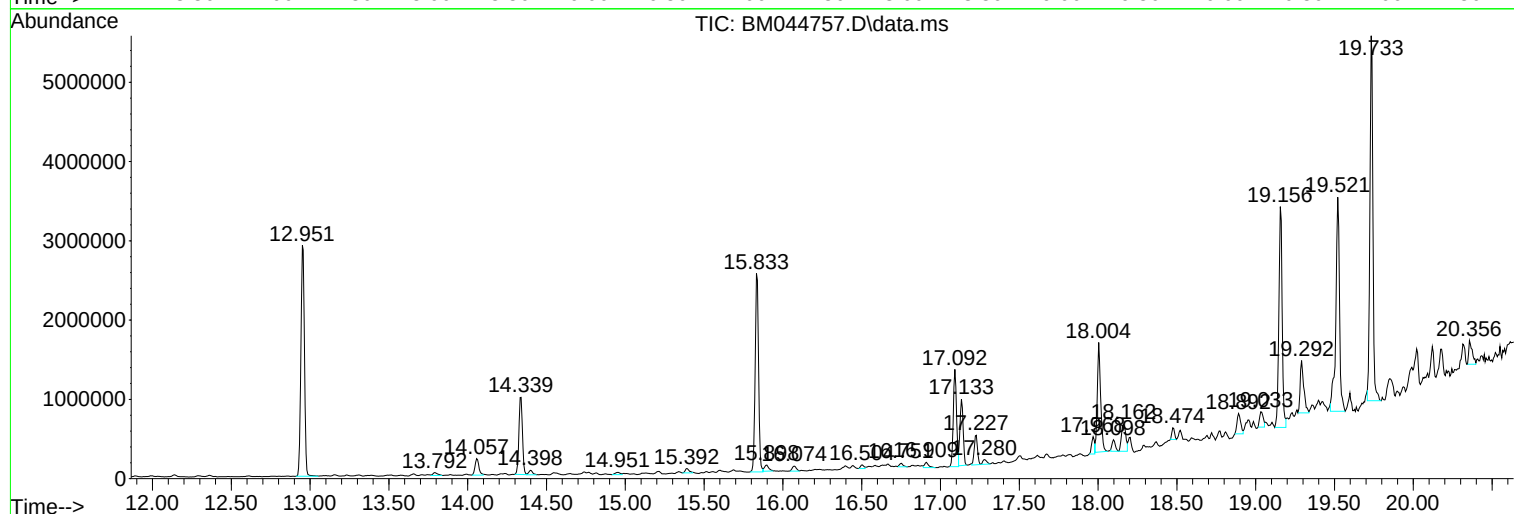
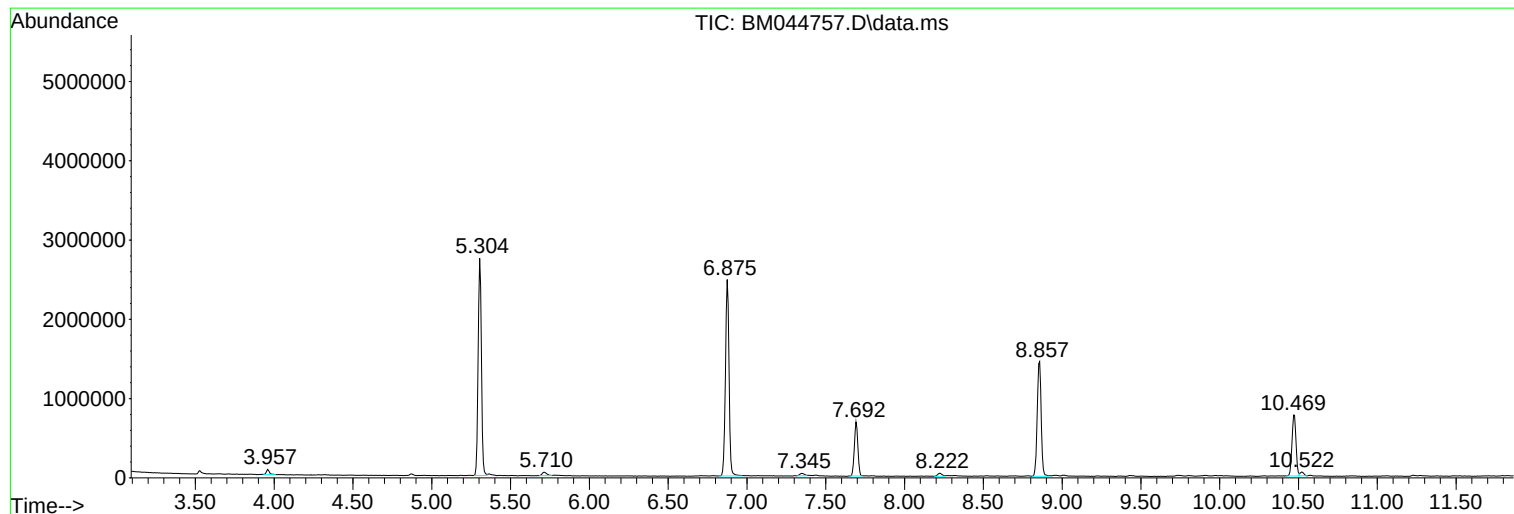
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Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032524\  
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Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
EO-01-03222024-B

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031324.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\BM032524\  
Data File : BM044757.D  
Acq On : 25 Mar 2024 15:58  
Operator : MA/JU  
Sample : P1842-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
EO-01-03222024-B

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031324.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

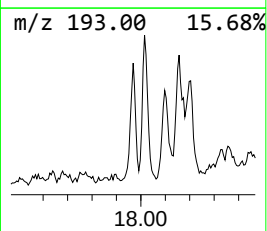
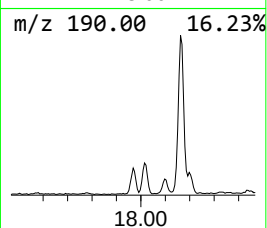
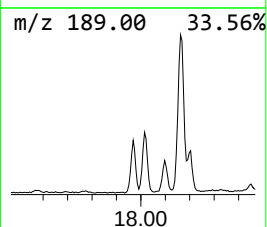
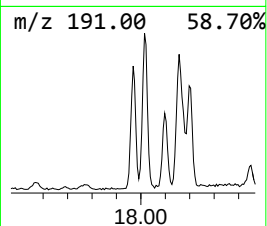
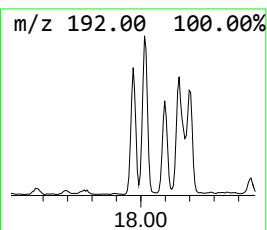
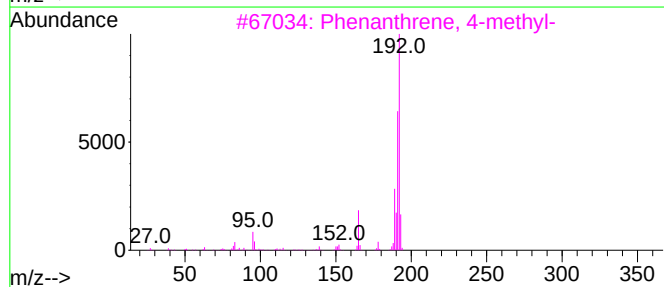
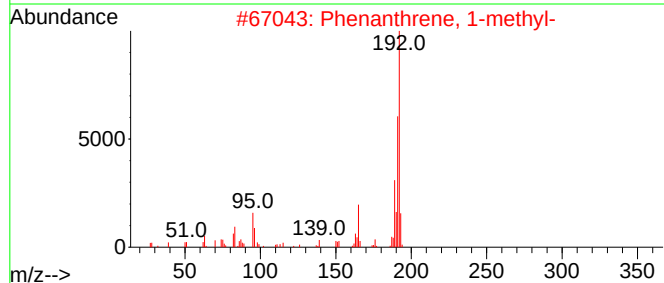
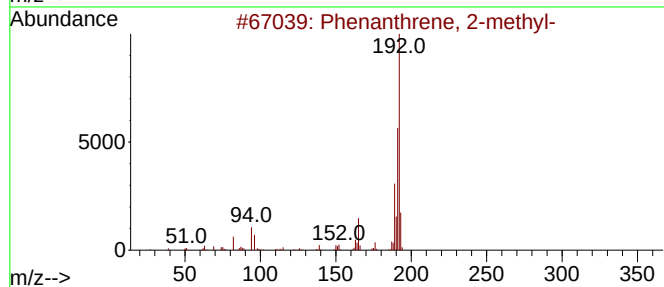
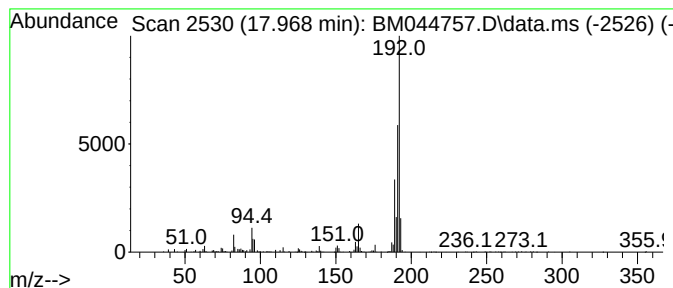
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 17.968 | 3.22 ng | 285139 | Phenanthrene-d10 | 17.092 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 95   |
| 3    |    |   | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 94   |
| 4    |    |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 94   |
| 5    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 91   |



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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
EO-01-03222024-B

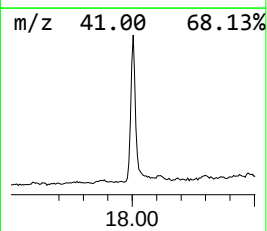
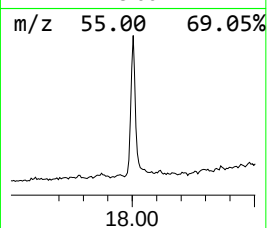
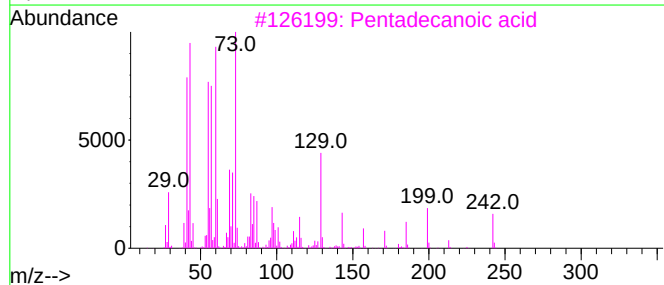
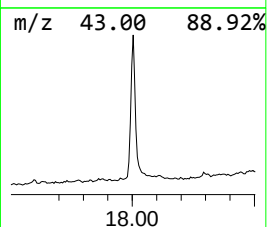
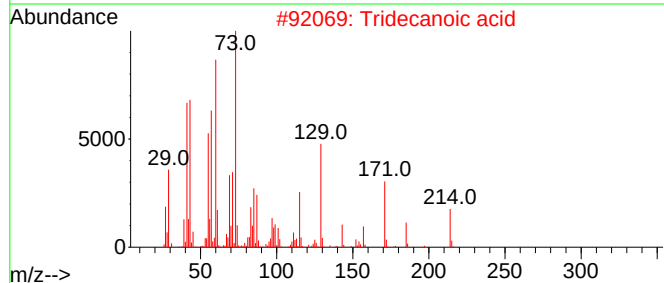
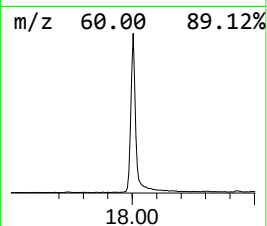
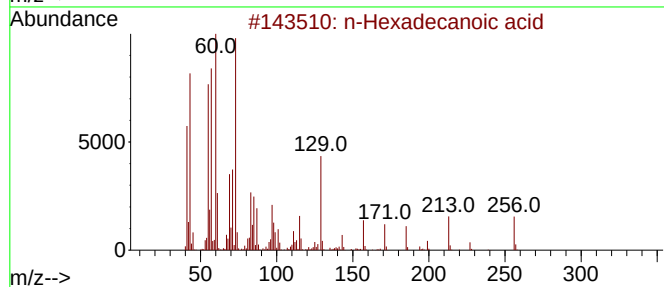
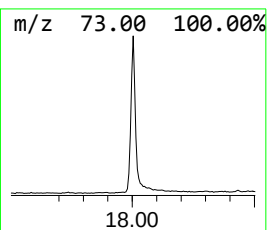
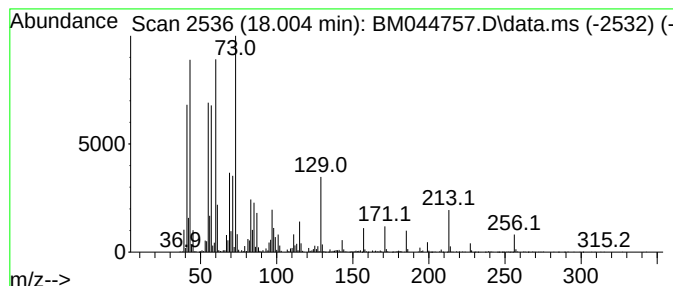
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031324.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 2 n-Hexadecanoic acid Concentration Rank 1

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 18.003 | 23.13 ng | 2045580 | Phenanthrene-d10 | 17.092 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | n-Hexadecanoic acid                 | 256 | C16H32O2 | 000057-10-3  | 99   |
| 2    |    |   | Tridecanoic acid                    | 214 | C13H26O2 | 000638-53-9  | 96   |
| 3    |    |   | Pentadecanoic acid                  | 242 | C15H30O2 | 001002-84-2  | 87   |
| 4    |    |   | Tetradecanoic acid                  | 228 | C14H28O2 | 000544-63-8  | 68   |
| 5    |    |   | Methyl isopropylidene-.beta.-d-a... | 204 | C9H16O5  | 1000129-88-1 | 47   |



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ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
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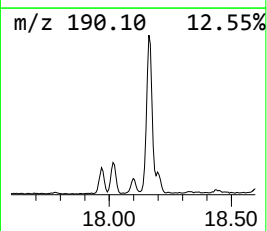
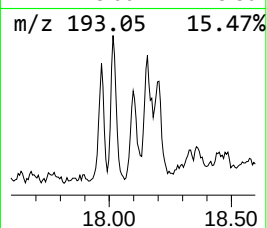
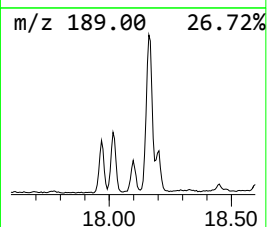
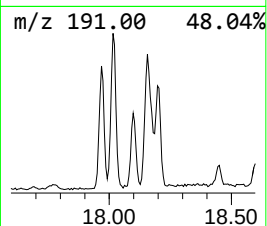
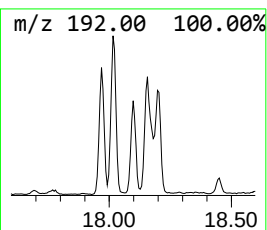
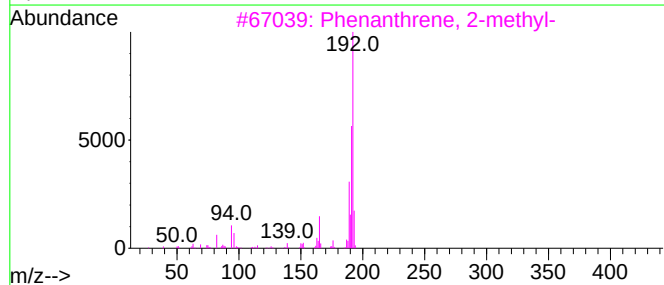
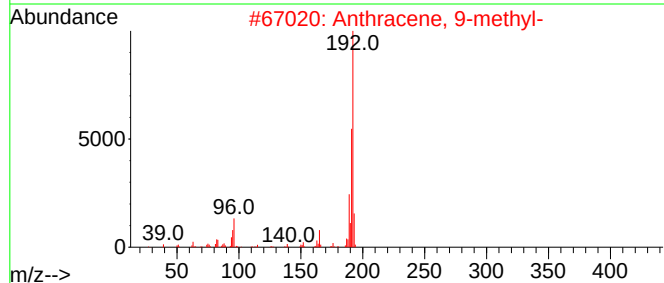
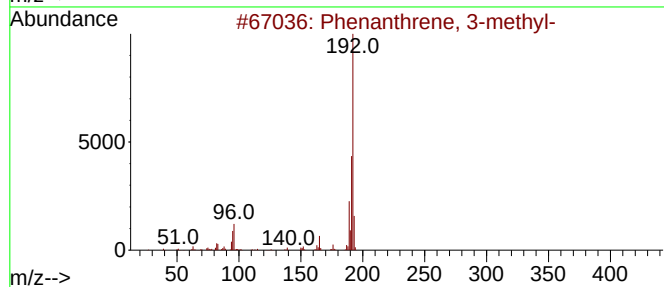
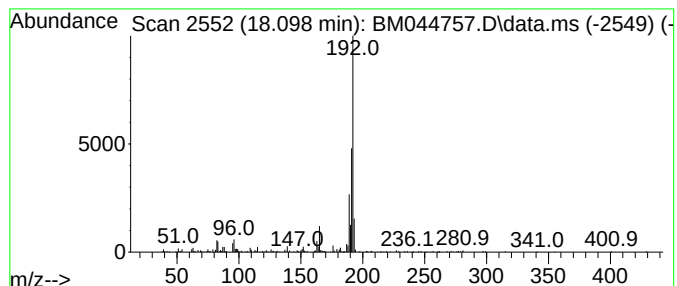
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031324.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 3 Phenanthrene, 3-methyl- Concentration Rank 7

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.098 | 2.33 ng | 206456 | Phenanthrene-d10 | 17.092 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 3-methyl-             | 192 | C15H12  | 000832-71-3 | 94   |
| 2    |    |   | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 94   |
| 3    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 93   |
| 4    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 93   |
| 5    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 93   |



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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031324.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

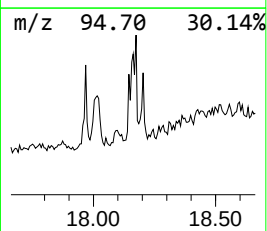
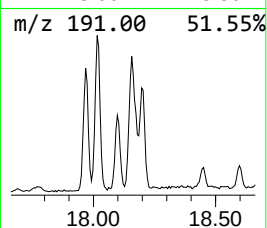
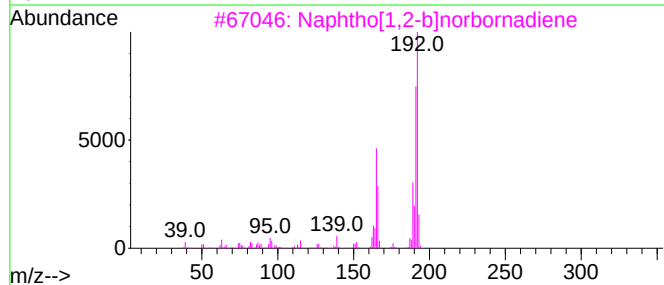
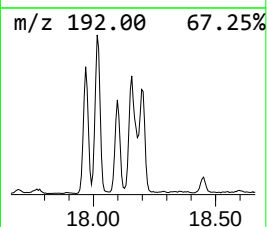
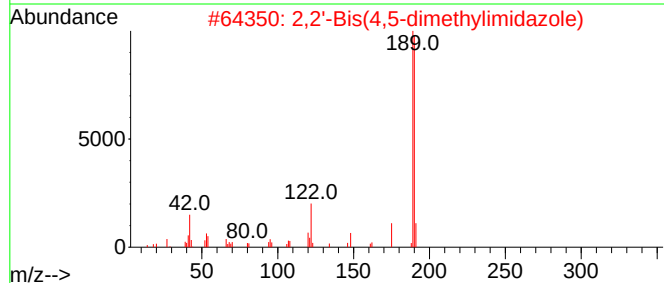
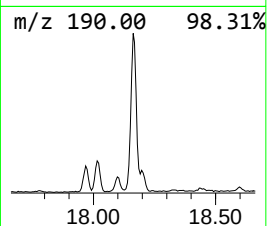
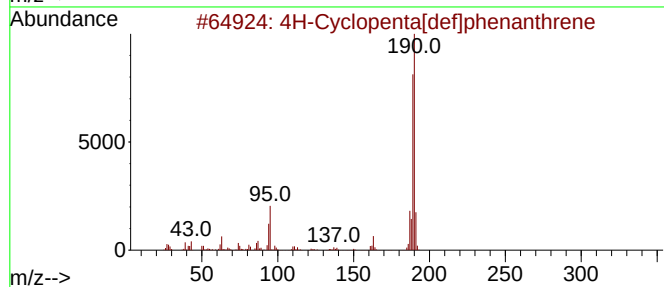
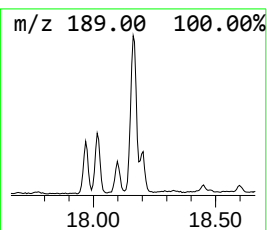
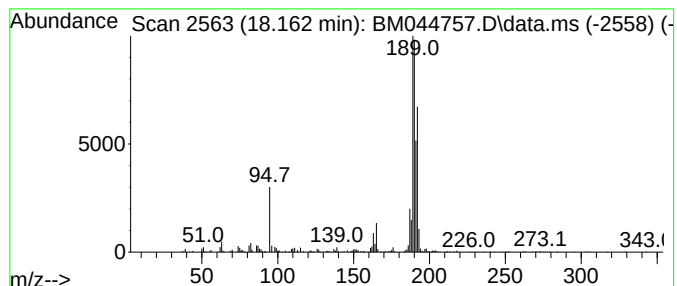
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.162 | 7.42 ng | 655980 | Phenanthrene-d10 | 17.092 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm  | CAS#         | Qual |
|------|----|---|---------------------------------|-----|----------|--------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene  | 190 | C15H10   | 000203-64-5  | 64   |
| 2    |    |   | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2  | 43   |
| 3    |    |   | Naphtho[1,2-b]norbornadiene     | 192 | C15H12   | 1000210-14-8 | 42   |
| 4    |    |   | Phenanthrene, 1-methyl-         | 192 | C15H12   | 000832-69-9  | 30   |
| 5    |    |   | 1H-Indene, 2-phenyl-            | 192 | C15H12   | 004505-48-0  | 30   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032524\  
Data File : BM044757.D  
Acq On : 25 Mar 2024 15:58  
Operator : MA/JU  
Sample : P1842-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
EO-01-03222024-B

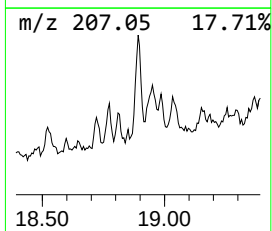
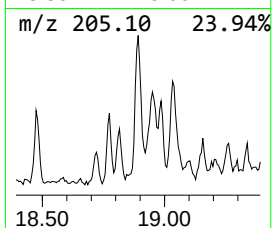
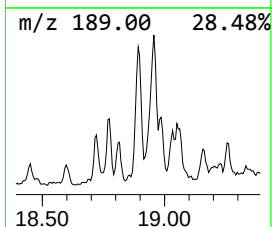
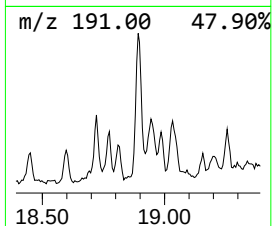
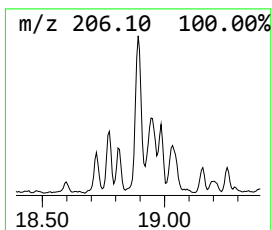
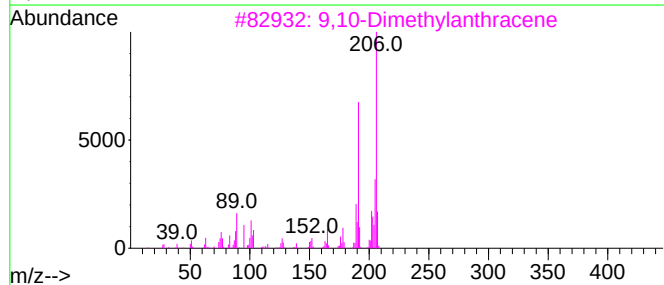
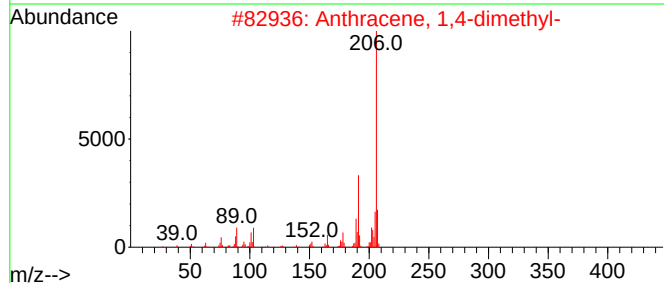
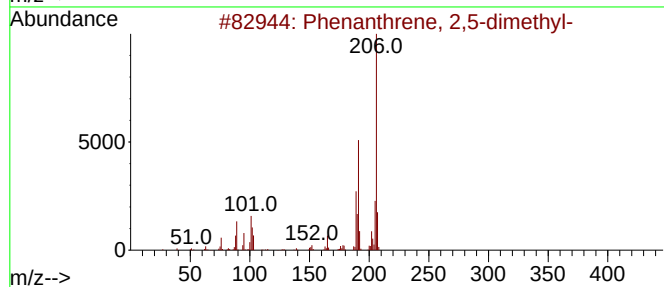
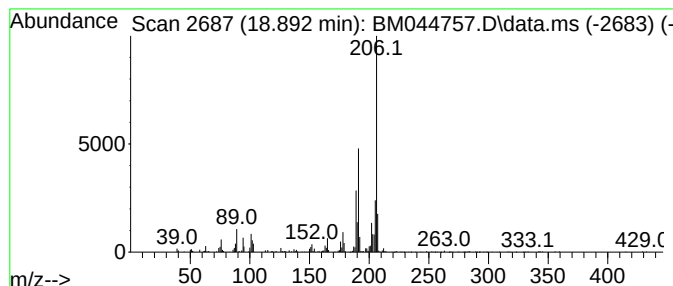
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Phenanthrene, 2,5-dimethyl- Concentration Rank 3

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 18.892 | 4.79 ng | 423737 | Phenanthrene-d10 | 17.092 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#         | Qual |
|------|----|---|-----------------------------|-----|---------|--------------|------|
| 1    |    |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6  | 93   |
| 2    |    |   | Anthracene, 1,4-dimethyl-   | 206 | C16H14  | 000781-92-0  | 93   |
| 3    |    |   | 9,10-Dimethylanthracene     | 206 | C16H14  | 000781-43-1  | 93   |
| 4    |    |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6  | 91   |
| 5    |    |   | 3,4-Dimethylphenanthrene    | 206 | C16H14  | 1000452-24-5 | 90   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032524\  
Data File : BM044757.D  
Acq On : 25 Mar 2024 15:58  
Operator : MA/JU  
Sample : P1842-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

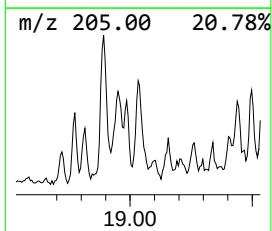
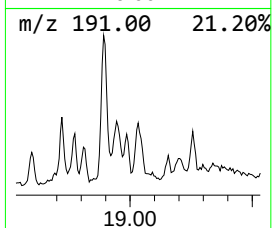
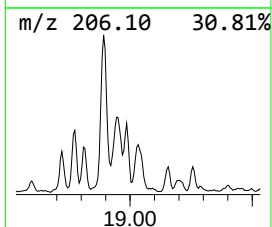
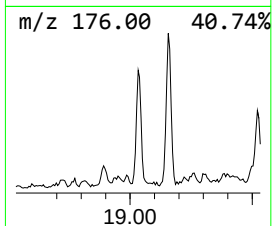
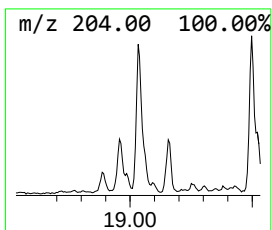
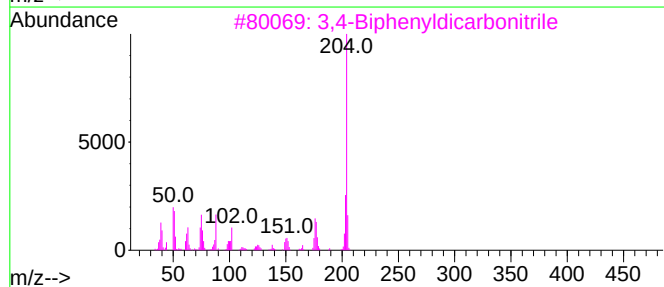
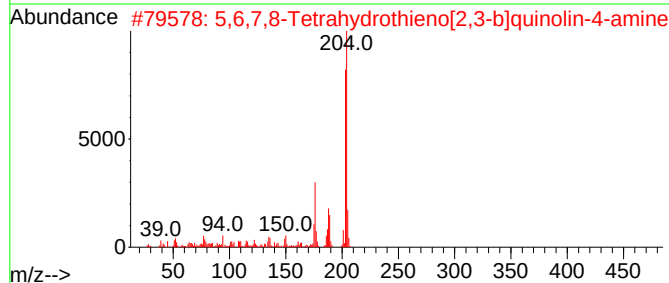
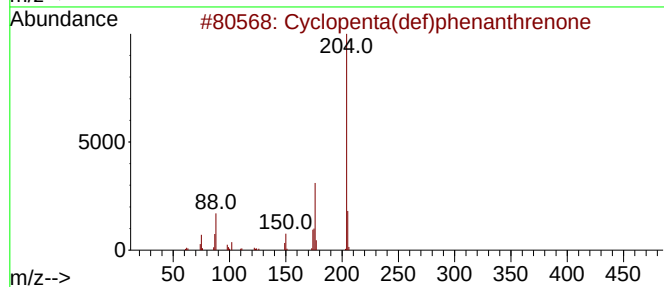
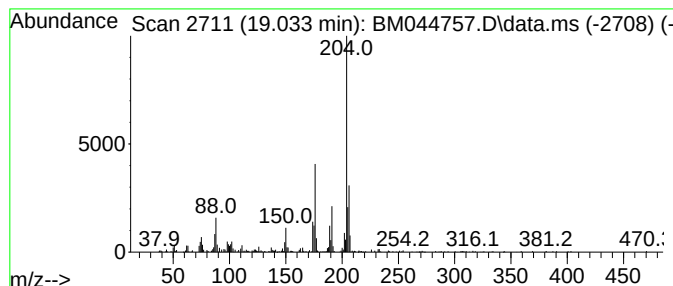
Instrument :  
BNA\_M  
ClientSampleId :  
EO-01-03222024-B

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031324.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 Cyclopenta(def)phenanthrenone Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 19.033    | 3.60 ng                             | 318157 | Phenanthrene-d10 | 17.092      |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Cyclopenta(def)phenanthrenone       | 204    | C15H8O           | 005737-13-3 | 96   |
| 2         | 5,6,7,8-Tetrahydrothieno[2,3-b]q... | 204    | C11H12N2S        | 122914-50-5 | 50   |
| 3         | 3,4-Biphenyldicarbonitrile          | 204    | C14H8N2          | 004128-63-6 | 43   |
| 4         | [1,1'-Biphenyl]-2-ol, 5-chloro-     | 204    | C12H9ClO         | 000607-12-5 | 43   |
| 5         | Pyrimidine, 2-chloro-4-methyl-6-... | 204    | C11H9ClN2        | 032785-40-3 | 43   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032524\  
Data File : BM044757.D  
Acq On : 25 Mar 2024 15:58  
Operator : MA/JU  
Sample : P1842-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
EO-01-03222024-B

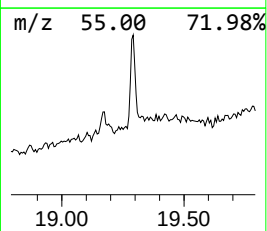
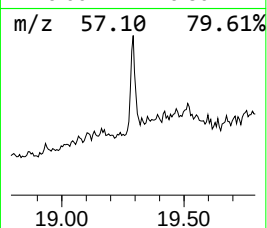
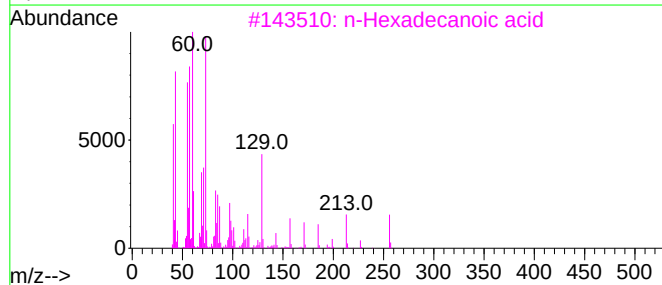
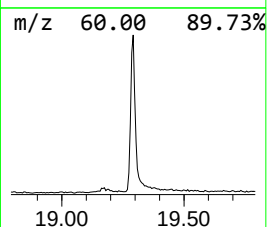
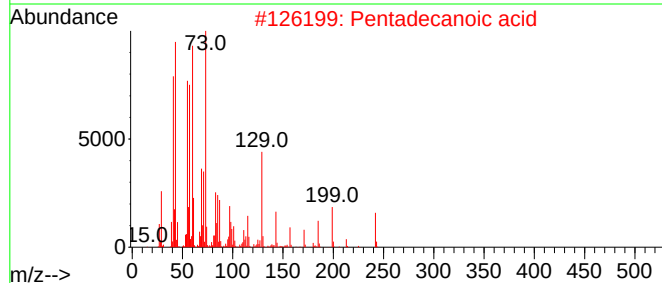
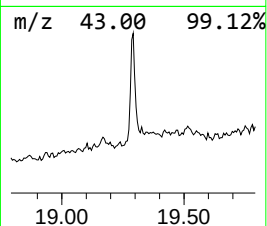
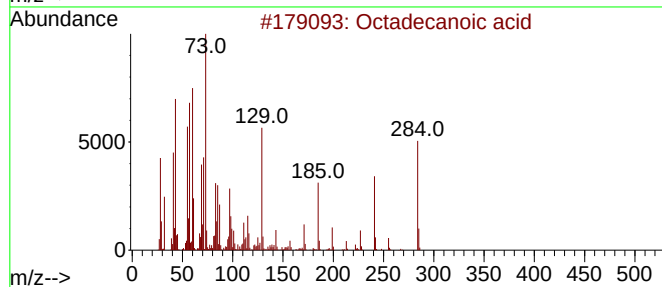
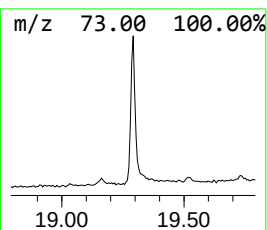
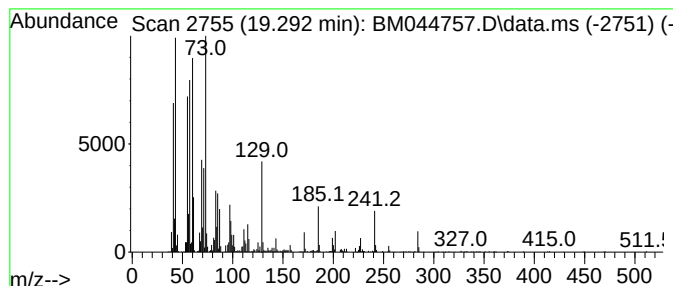
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Octadecanoic acid Concentration Rank 4

| R.T.   | EstConc | Area    | Relative to ISTD | R.T.   |
|--------|---------|---------|------------------|--------|
| 19.292 | 4.31 ng | 1044140 | Chrysene-d12     | 21.292 |

| 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 | 87   |
| 4    |    |   | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 83   |
| 5    |    |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 62   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM032524\  
Data File : BM044757.D  
Acq On : 25 Mar 2024 15:58  
Operator : MA/JU  
Sample : P1842-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
EO-01-03222024-B

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM031324.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 |
| Phenanthrene, 2... | 17.968 | 3.2     | ng    | 285139   | 4                     | 17.092 | 1768930 | 20.0 |
| n-Hexadecanoic ... | 18.003 | 23.1    | ng    | 2045580  | 4                     | 17.092 | 1768930 | 20.0 |
| Phenanthrene, 3... | 18.098 | 2.3     | ng    | 206456   | 4                     | 17.092 | 1768930 | 20.0 |
| 4H-Cyclopenta[d... | 18.162 | 7.4     | ng    | 655980   | 4                     | 17.092 | 1768930 | 20.0 |
| Phenanthrene, 2... | 18.892 | 4.8     | ng    | 423737   | 4                     | 17.092 | 1768930 | 20.0 |
| Cyclopenta(def)... | 19.033 | 3.6     | ng    | 318157   | 4                     | 17.092 | 1768930 | 20.0 |
| Octadecanoic acid  | 19.292 | 4.3     | ng    | 1044140  | 5                     | 21.292 | 4847320 | 20.0 |