

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP081720\  
 Data File : BP003010.D  
 Acq On : 17 Aug 2020 19:27  
 Operator : CG/JU  
 Sample : L3691-15  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 S708-N-SO-0-0.5-081320

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP073020.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.958       | 8             | 12          | 25           | rVB      | 1478844        | 1590941       | 18.54%          | 1.657%        |
| 2         | 4.828       | 325           | 330         | 337          | rVB      | 68064          | 93267         | 1.09%           | 0.097%        |
| 3         | 5.293       | 402           | 409         | 424          | rBV      | 3273007        | 4679895       | 54.55%          | 4.875%        |
| 4         | 6.864       | 668           | 676         | 691          | rBV      | 2931425        | 4711472       | 54.92%          | 4.908%        |
| 5         | 7.287       | 743           | 748         | 754          | rBV      | 74502          | 121244        | 1.41%           | 0.126%        |
| 6         | 7.687       | 808           | 816         | 824          | rBV      | 1260555        | 1986001       | 23.15%          | 2.069%        |
| 7         | 8.828       | 1002          | 1010        | 1021         | rBV      | 1975159        | 3229914       | 37.65%          | 3.364%        |
| 8         | 10.463      | 1280          | 1288        | 1303         | rBV      | 1465178        | 2425355       | 28.27%          | 2.526%        |
| 9         | 12.946      | 1702          | 1710        | 1729         | rBV      | 4429382        | 6491334       | 75.66%          | 6.762%        |
| 10        | 13.781      | 1844          | 1852        | 1861         | rBV      | 778107         | 1052855       | 12.27%          | 1.097%        |
| 11        | 14.322      | 1937          | 1944        | 1951         | rBV      | 2114550        | 3066163       | 35.74%          | 3.194%        |
| 12        | 14.387      | 1951          | 1955        | 1963         | rVB      | 116768         | 167181        | 1.95%           | 0.174%        |
| 13        | 15.375      | 2116          | 2123        | 2130         | rBV      | 105894         | 149256        | 1.74%           | 0.155%        |
| 14        | 15.816      | 2191          | 2198        | 2208         | rBV      | 3279753        | 4754999       | 55.42%          | 4.953%        |
| 15        | 16.840      | 2364          | 2372        | 2377         | rBV4     | 51014          | 134989        | 1.57%           | 0.141%        |
| 16        | 16.892      | 2377          | 2381        | 2387         | rVB      | 74371          | 104769        | 1.22%           | 0.109%        |
| 17        | 17.075      | 2406          | 2412        | 2416         | rBV      | 2846368        | 4001076       | 46.64%          | 4.168%        |
| 18        | 17.116      | 2416          | 2419        | 2425         | rVB      | 1705971        | 2269593       | 26.45%          | 2.364%        |
| 19        | 17.210      | 2430          | 2435        | 2440         | rVV      | 304974         | 447713        | 5.22%           | 0.466%        |
| 20        | 17.475      | 2472          | 2480        | 2487         | rBV2     | 219201         | 375286        | 4.37%           | 0.391%        |
| 21        | 17.951      | 2554          | 2561        | 2564         | rBV      | 137814         | 231010        | 2.69%           | 0.241%        |
| 22        | 17.998      | 2564          | 2569        | 2578         | rVV      | 754909         | 1154823       | 13.46%          | 1.203%        |
| 23        | 18.075      | 2579          | 2582        | 2587         | rVV      | 77215          | 124100        | 1.45%           | 0.129%        |
| 24        | 18.139      | 2587          | 2593        | 2597         | rVV2     | 262986         | 458075        | 5.34%           | 0.477%        |
| 25        | 18.175      | 2597          | 2599        | 2605         | rVB      | 86771          | 94941         | 1.11%           | 0.099%        |
| 26        | 18.439      | 2639          | 2644        | 2646         | rBV      | 116659         | 157896        | 1.84%           | 0.164%        |
| 27        | 18.469      | 2646          | 2649        | 2657         | rVB      | 170906         | 224357        | 2.62%           | 0.234%        |
| 28        | 18.845      | 2708          | 2713        | 2718         | rBV2     | 62729          | 105169        | 1.23%           | 0.110%        |
| 29        | 18.975      | 2731          | 2735        | 2743         | rVB      | 79878          | 115764        | 1.35%           | 0.121%        |
| 30        | 19.092      | 2750          | 2755        | 2764         | rBV      | 3193962        | 4276956       | 49.85%          | 4.455%        |
| 31        | 19.233      | 2775          | 2779        | 2784         | rBV2     | 213292         | 302740        | 3.53%           | 0.315%        |
| 32        | 19.328      | 2793          | 2795        | 2800         | rVB      | 75773          | 90303         | 1.05%           | 0.094%        |
| 33        | 19.445      | 2806          | 2815        | 2824         | rBV      | 2578043        | 4232872       | 49.34%          | 4.409%        |
| 34        | 19.516      | 2824          | 2827        | 2836         | rVB3     | 108834         | 185174        | 2.16%           | 0.193%        |

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Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
S708-N-SO-0-0.5-081320

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON  
Sampling : 1  
Start Thrs: 0.2  
Stop Thrs : 0  
Filtering: 5  
Min Area: 3 % of largest Peak  
Max Peaks: 100  
Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP073020.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 19.651 | 2842 | 2850 | 2862 | rVB  | 6676754 | 8579369 | 100.00% | 8.937% |
| 36 | 19.763 | 2864 | 2869 | 2875 | rVV3 | 117415  | 283104  | 3.30%   | 0.295% |
| 37 | 19.933 | 2894 | 2898 | 2902 | rVB  | 386508  | 526153  | 6.13%   | 0.548% |
| 38 | 19.975 | 2902 | 2905 | 2909 | rBV3 | 63909   | 87490   | 1.02%   | 0.091% |
| 39 | 20.028 | 2910 | 2914 | 2918 | rBV  | 305126  | 426082  | 4.97%   | 0.444% |
| 40 | 20.086 | 2919 | 2924 | 2927 | rVV2 | 200785  | 329993  | 3.85%   | 0.344% |
| 41 | 20.122 | 2928 | 2930 | 2935 | rVB  | 113226  | 144005  | 1.68%   | 0.150% |
| 42 | 20.263 | 2951 | 2954 | 2959 | rBV2 | 101985  | 139360  | 1.62%   | 0.145% |
| 43 | 20.657 | 3018 | 3021 | 3028 | rVB  | 186668  | 284017  | 3.31%   | 0.296% |
| 44 | 20.822 | 3043 | 3049 | 3052 | rBV2 | 318198  | 531203  | 6.19%   | 0.553% |
| 45 | 20.863 | 3053 | 3056 | 3059 | rVV  | 300703  | 401062  | 4.67%   | 0.418% |
| 46 | 20.904 | 3059 | 3063 | 3067 | rVV3 | 1013282 | 1479137 | 17.24%  | 1.541% |
| 47 | 20.945 | 3068 | 3070 | 3078 | rVB2 | 287365  | 431862  | 5.03%   | 0.450% |
| 48 | 21.169 | 3101 | 3108 | 3112 | rBV2 | 3888805 | 7048307 | 82.15%  | 7.342% |
| 49 | 21.204 | 3112 | 3114 | 3124 | rVB  | 1599702 | 1780330 | 20.75%  | 1.854% |
| 50 | 21.322 | 3130 | 3134 | 3137 | rBV  | 268316  | 353542  | 4.12%   | 0.368% |
| 51 | 21.475 | 3156 | 3160 | 3165 | rBV  | 277605  | 416183  | 4.85%   | 0.434% |
| 52 | 21.780 | 3208 | 3212 | 3218 | rVB5 | 228374  | 406294  | 4.74%   | 0.423% |
| 53 | 21.916 | 3231 | 3235 | 3237 | rBV2 | 194862  | 278438  | 3.25%   | 0.290% |
| 54 | 22.739 | 3369 | 3375 | 3390 | rBV  | 1551874 | 5148384 | 60.01%  | 5.363% |
| 55 | 22.910 | 3401 | 3404 | 3413 | rVB  | 233964  | 380642  | 4.44%   | 0.396% |
| 56 | 23.222 | 3452 | 3457 | 3466 | rVB  | 948644  | 1892561 | 22.06%  | 1.971% |
| 57 | 23.316 | 3467 | 3473 | 3483 | rBV  | 1181198 | 2369211 | 27.62%  | 2.468% |
| 58 | 23.416 | 3483 | 3490 | 3496 | rBV2 | 2619253 | 4945696 | 57.65%  | 5.152% |
| 59 | 25.698 | 3870 | 3878 | 3891 | rVB2 | 755488  | 2169937 | 25.29%  | 2.260% |
| 60 | 26.392 | 3990 | 3996 | 4012 | rVB  | 538909  | 1560987 | 18.19%  | 1.626% |

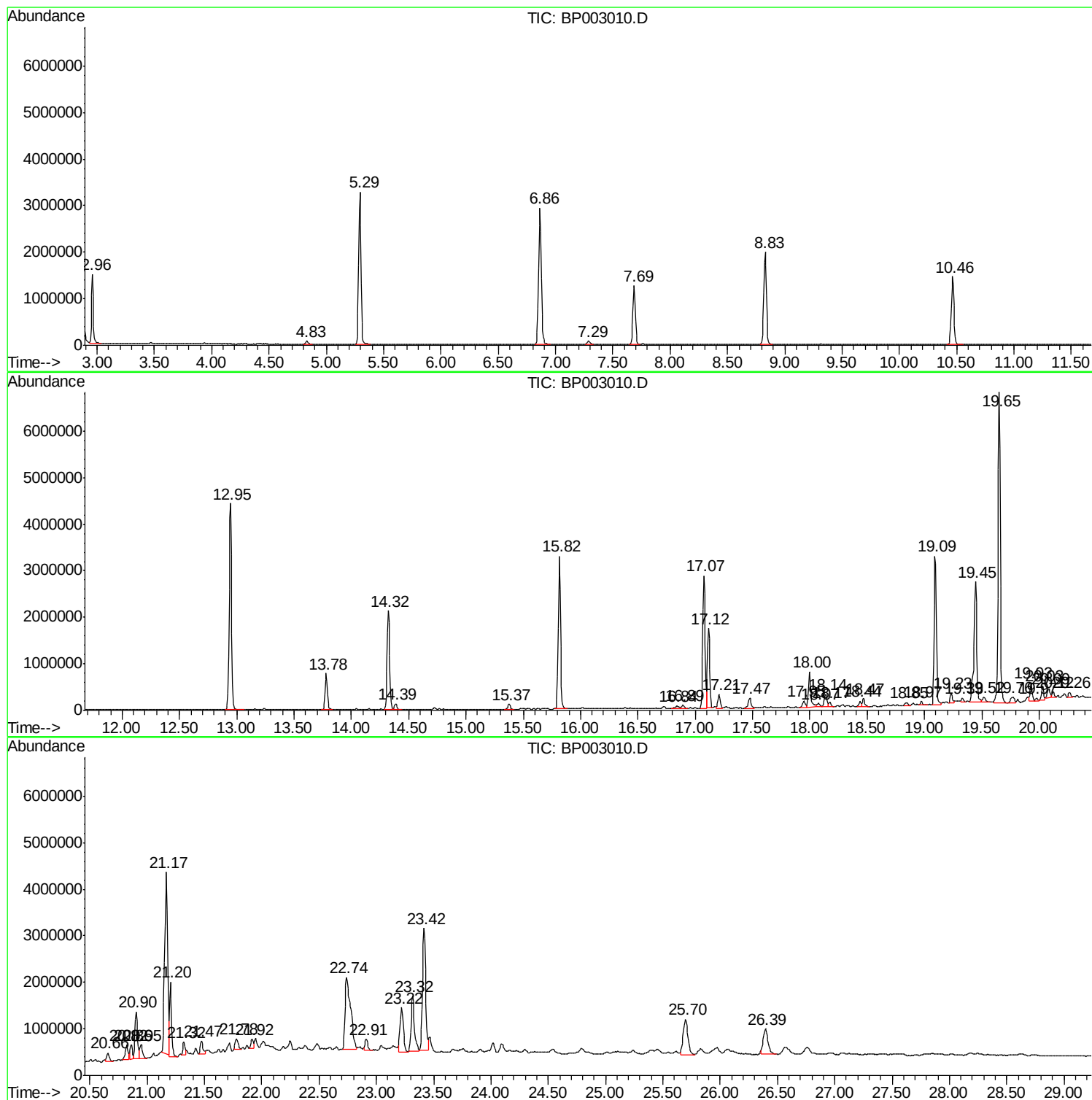
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Misc :  
ALS Vial : 17 Sample Multiplier: 1

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BNA\_P  
ClientSampleId :  
S708-N-SO-0-0.5-081320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP073020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP081720\  
Data File : BP003010.D  
Acq On : 17 Aug 2020 19:27  
Operator : CG/JU  
Sample : L3691-15  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

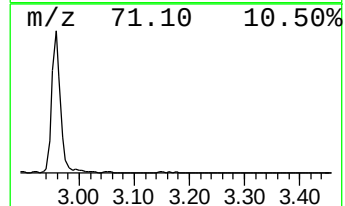
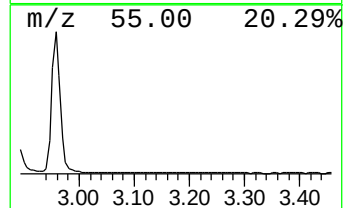
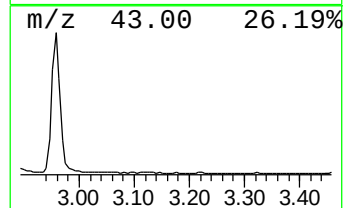
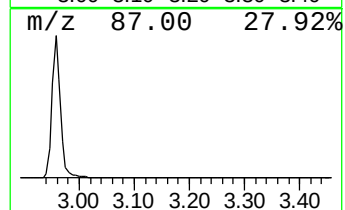
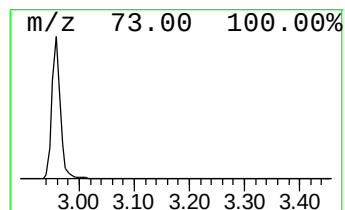
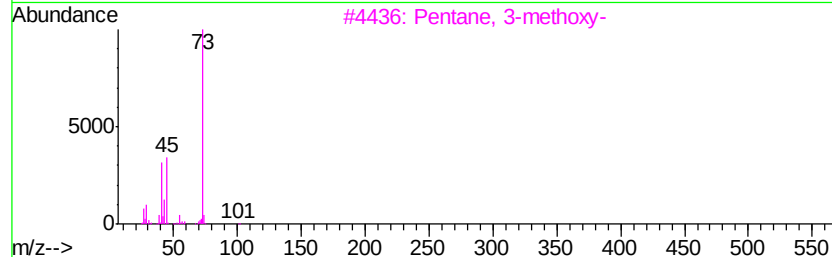
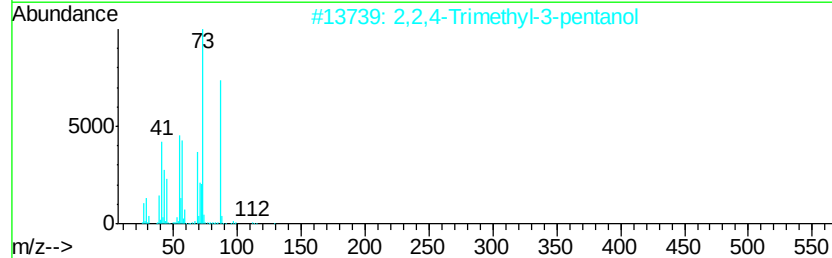
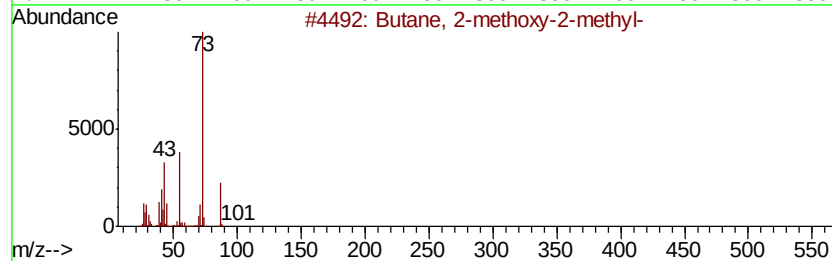
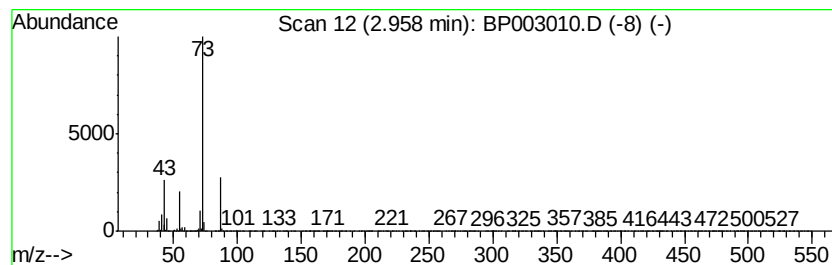
Instrument :  
BNA\_P  
ClientSampleId :  
S708-N-SO-0-0.5-081320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP073020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.    | EstConc  | Area                        | Relative to ISTD       | R.T.    |             |      |
|---------|----------|-----------------------------|------------------------|---------|-------------|------|
| 2.96    | 16.02 ng | 1590940                     | 1,4-Dichlorobenzene-d4 | 7.69    |             |      |
| Hit# of | 5        | Tentative ID                | MW                     | MolForm | CAS#        | Qual |
| 1       |          | Butane, 2-methoxy-2-methyl- | 102                    | C6H14O  | 000994-05-8 | 78   |
| 2       |          | 2,2,4-Trimethyl-3-pentanol  | 130                    | C8H18O  | 005162-48-1 | 43   |
| 3       |          | Pentane, 3-methoxy-         | 102                    | C6H14O  | 036839-67-5 | 23   |
| 4       |          | N-Ethylformamide            | 73                     | C3H7NO  | 000627-45-2 | 9    |
| 5       |          | 3-Hexanol, 2-methyl-        | 116                    | C7H16O  | 000617-29-8 | 9    |



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Instrument :  
BNA\_P  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP073020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

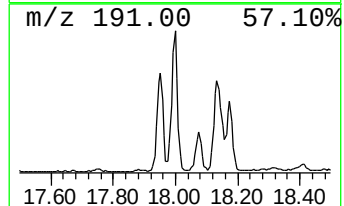
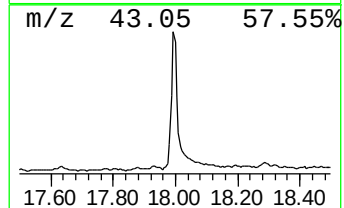
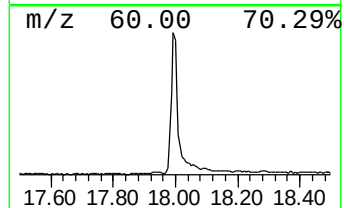
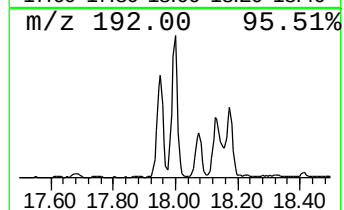
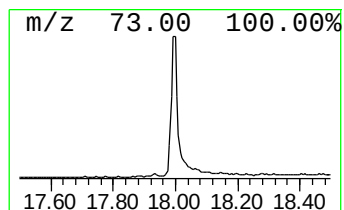
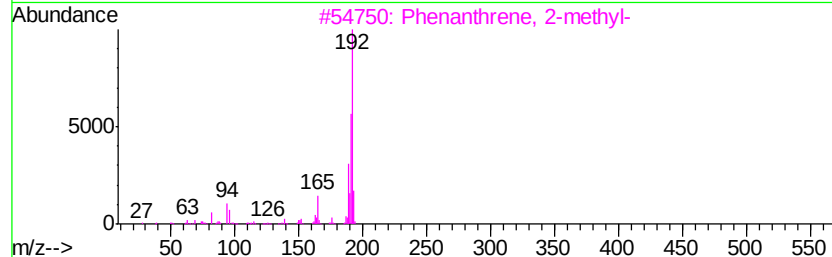
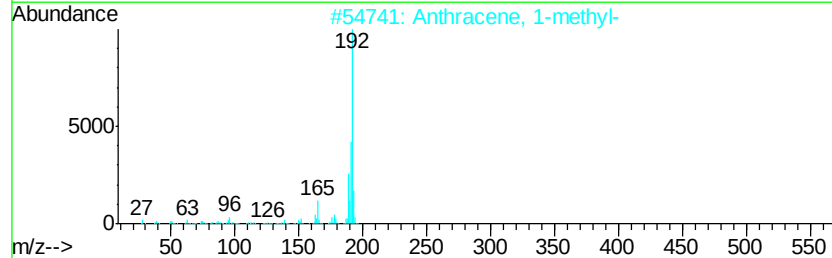
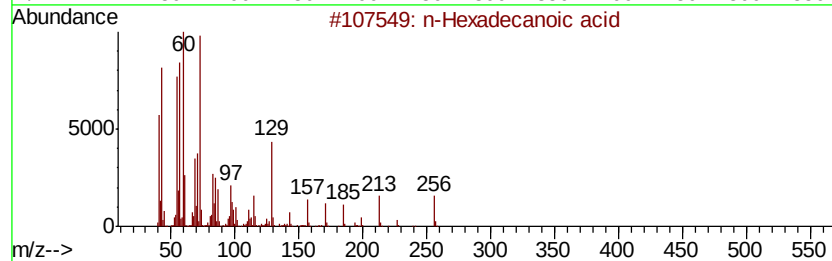
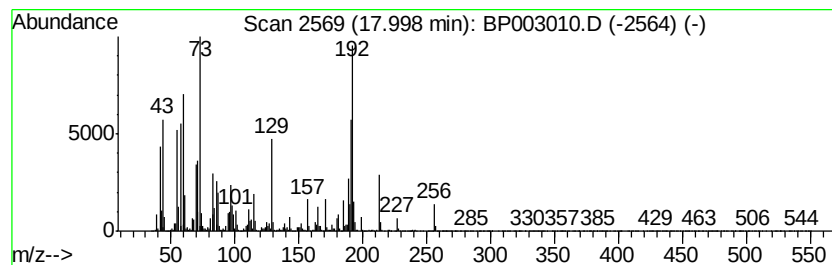
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc | Area    | Relative to ISTD | R.T.  |
|-------|---------|---------|------------------|-------|
| 18.00 | 5.77 ng | 1154820 | Phenanthrene-d10 | 17.07 |

| Hit# of | 5 | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|---------|---|-------------------------|-----|----------|-------------|------|
| 1       |   | n-Hexadecanoic acid     | 256 | C16H32O2 | 000057-10-3 | 97   |
| 2       |   | Anthracene, 1-methyl-   | 192 | C15H12   | 000610-48-0 | 92   |
| 3       |   | Phenanthrene, 2-methyl- | 192 | C15H12   | 002531-84-2 | 92   |
| 4       |   | Anthracene, 2-methyl-   | 192 | C15H12   | 000613-12-7 | 92   |
| 5       |   | Tridecanoic acid        | 214 | C13H26O2 | 000638-53-9 | 86   |



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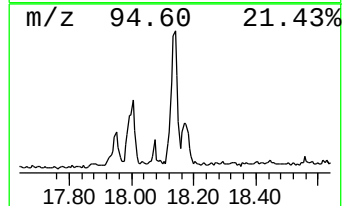
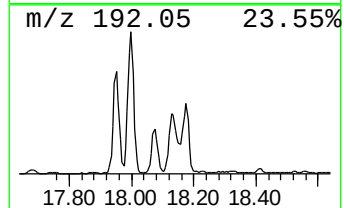
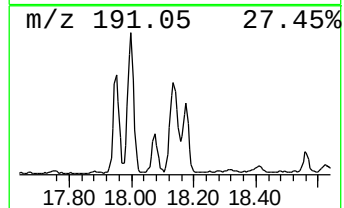
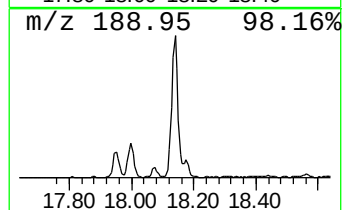
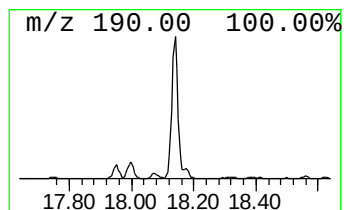
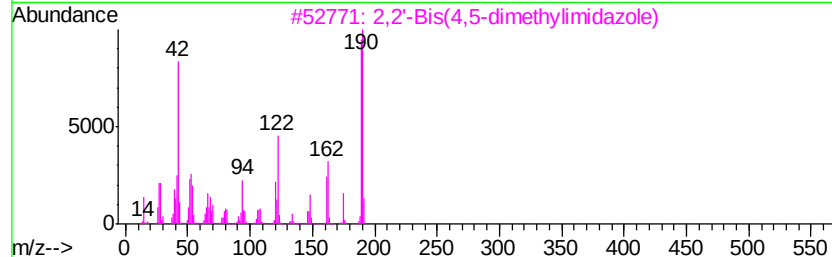
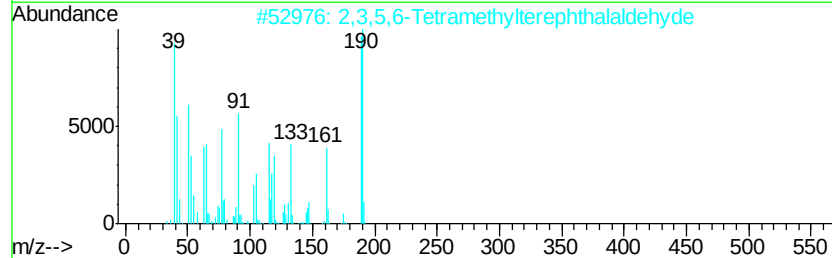
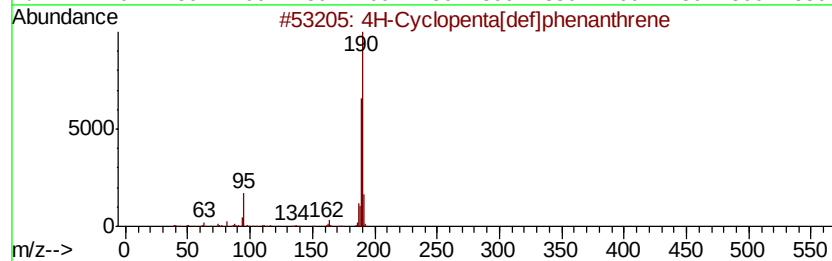
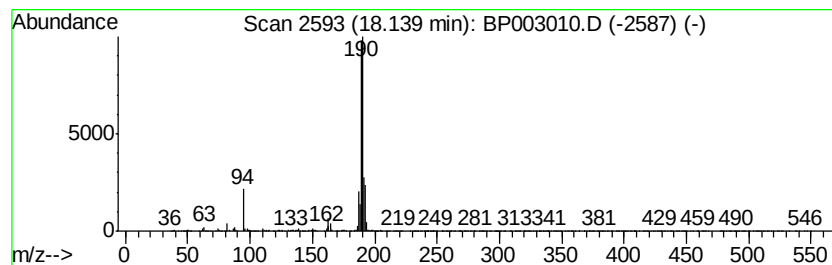
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP073020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 18.14     | 2.29 ng                             | 458075 | Phenanthrene-d10 | 17.07       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 76   |
| 2         | 2,3,5,6-Tetramethylterephthalald... | 190    | C12H14O2         | 007072-01-7 | 50   |
| 3         | 2,2'-Bis(4,5-dimethylimidazole)     | 190    | C10H14N4         | 069286-06-2 | 45   |
| 4         | 2,4(1H,3H)-Pyrimidinedione, 5-br... | 190    | C4H3BrN2O2       | 000051-20-7 | 27   |
| 5         | 1,4-Naphthalenedione, 2,5-dihydr... | 190    | C10H6O4          | 004923-55-1 | 17   |



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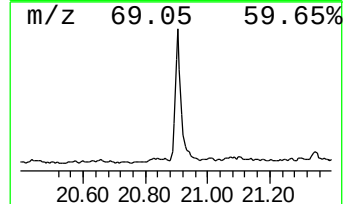
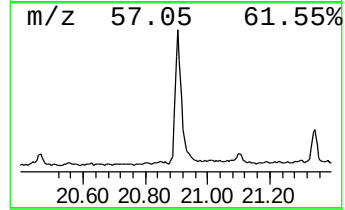
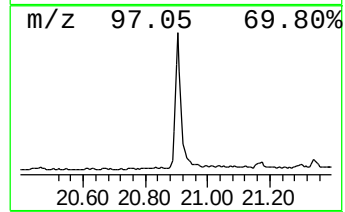
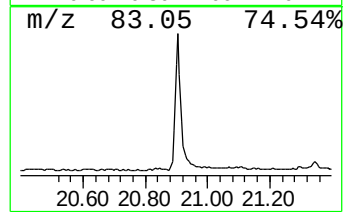
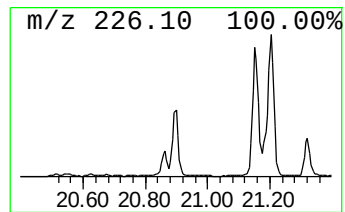
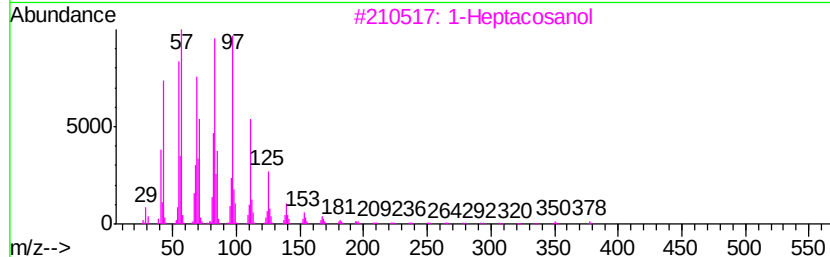
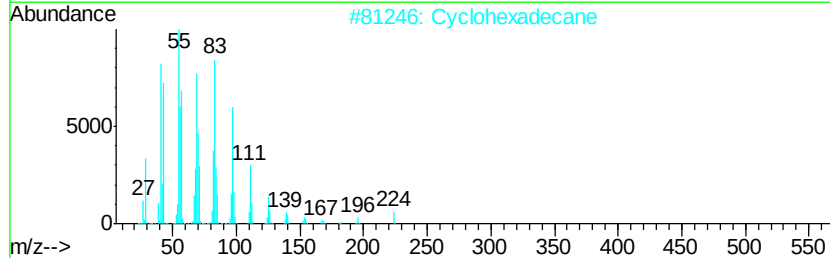
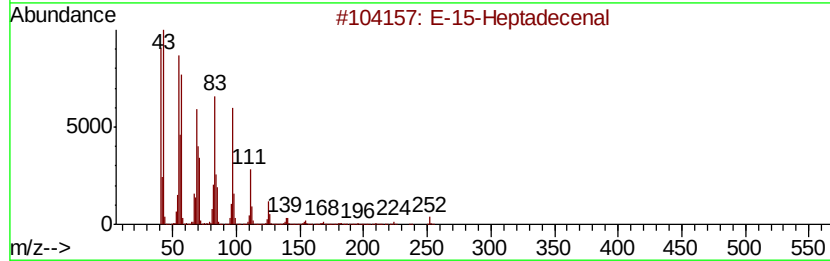
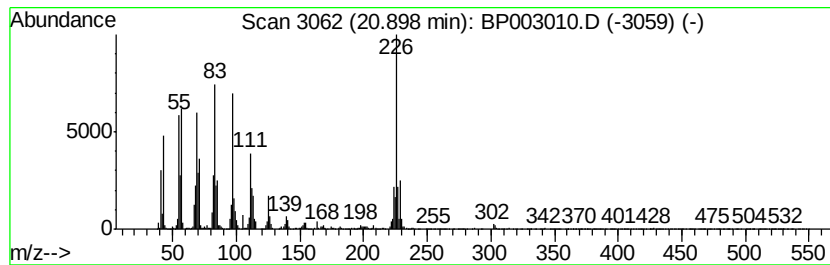
Instrument :  
BNA\_P  
ClientSampleId :  
S708-N-SO-0-0.5-081320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP073020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 E-15-Heptadecenal Concentration Rank 4

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|---------|------------------|--------------|------|
| 20.90     | 4.20 ng                             | 1479140 | Chrysene-d12     | 21.17        |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#         | Qual |
| 1         | E-15-Heptadecenal                   | 252     | C17H32O          | 1000130-97-9 | 96   |
| 2         | Cyclohexadecane                     | 224     | C16H32           | 000295-65-8  | 94   |
| 3         | 1-Heptacosanol                      | 396     | C27H56O          | 002004-39-9  | 93   |
| 4         | 2- Chloropropionic acid, octadec... | 360     | C21H41ClO2       | 088104-31-8  | 89   |
| 5         | Behenic alcohol                     | 326     | C22H46O          | 000661-19-8  | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP081720\  
Data File : BP003010.D  
Acq On : 17 Aug 2020 19:27  
Operator : CG/JU  
Sample : L3691-15  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
S708-N-SO-0-0.5-081320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP073020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

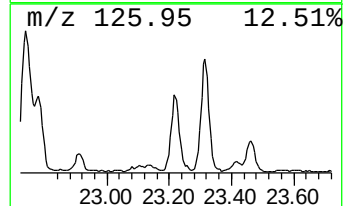
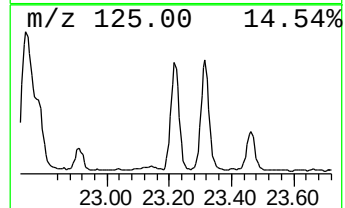
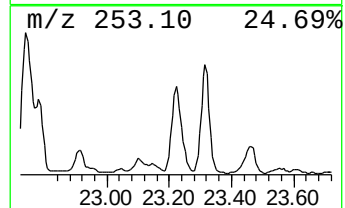
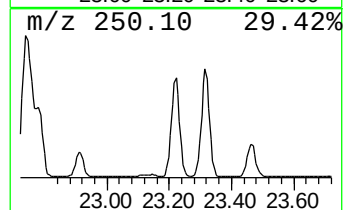
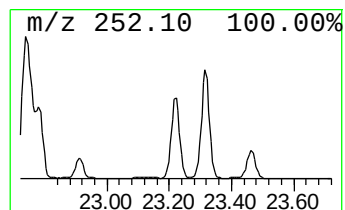
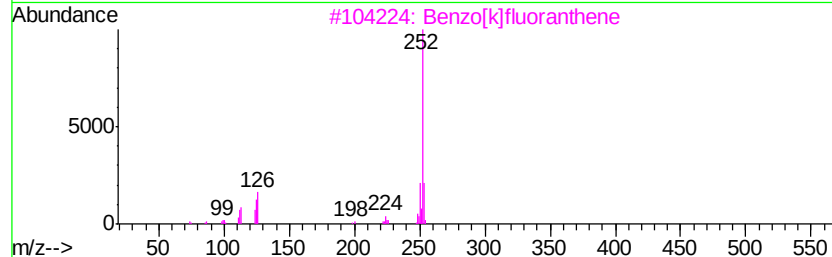
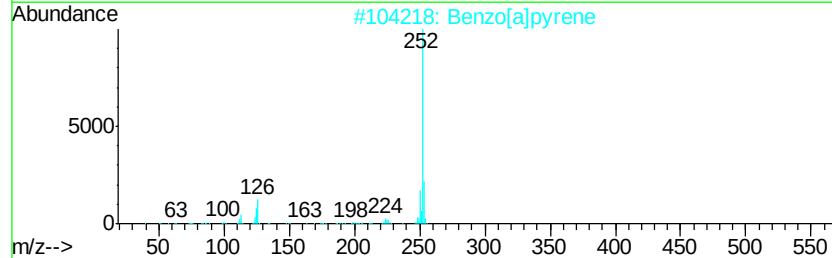
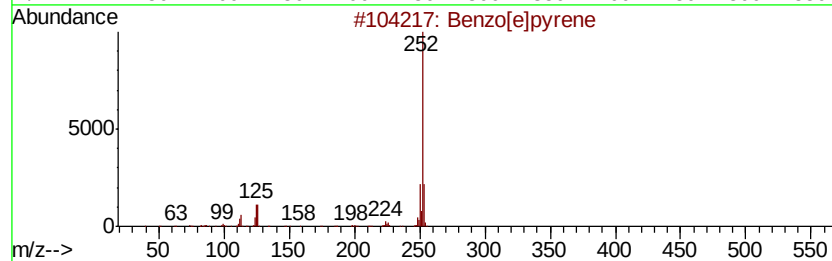
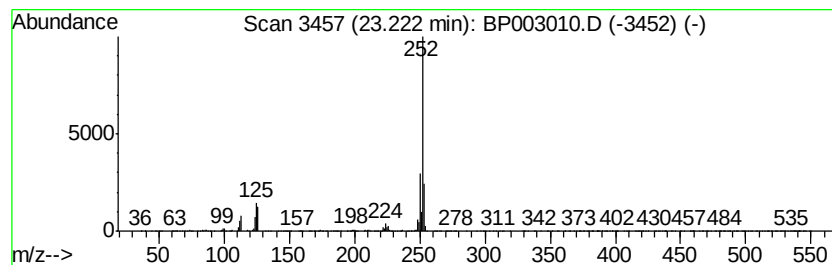
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzo[e]pyrene Concentration Rank 2

| R.T.  | EstConc | Area    | Relative to ISTD | R.T.  |
|-------|---------|---------|------------------|-------|
| 23.22 | 7.65 ng | 1892560 | Perylene-d12     | 23.42 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 99   |
| 2       |   | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 98   |
| 3       |   | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 96   |
| 4       |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 94   |
| 5       |   | Perylene                 | 252 | C20H12  | 000198-55-0 | 87   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_P\DATA\BP081720\  
Data File : BP003010.D  
Acq On : 17 Aug 2020 19:27  
Operator : CG/JU  
Sample : L3691-15  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_P  
ClientSampleId :  
S708-N-SO-0-0.5-081320

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\8270-BP073020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 2.96  | 16.0    | ng    | 1590940  | 1                     | 7.69  | 1986000 | 20.0 |
| n-Hexadecanoic acid  | 18.00 | 5.8     | ng    | 1154820  | 4                     | 17.07 | 4001080 | 20.0 |
| 4H-Cyclopenta[def... | 18.14 | 2.3     | ng    | 458075   | 4                     | 17.07 | 4001080 | 20.0 |
| E-15-Heptadecenal    | 20.90 | 4.2     | ng    | 1479140  | 5                     | 21.17 | 7048310 | 20.0 |
| Benzo[e]pyrene       | 23.22 | 7.7     | ng    | 1892560  | 6                     | 23.42 | 4945700 | 20.0 |