

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062118\  
 Data File : BF106688.D  
 Acq On : 22 Jun 2018 3:34  
 Operator : JU/SJ  
 Sample : J3603-01  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 26KV-TP-1

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\_F\METHODS\8270-BF061918.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         | 5.196       | 482           | 486         | 495          | rBV      | 68351          | 79280         | 8.28%           | 0.808%        |
| 2         | 5.607       | 552           | 556         | 567          | rVB      | 1022310        | 957702        | 100.00%         | 9.766%        |
| 3         | 6.601       | 721           | 725         | 741          | rBV      | 961973         | 951365        | 99.34%          | 9.701%        |
| 4         | 6.737       | 744           | 748         | 752          | rVV      | 1046516        | 949943        | 99.19%          | 9.687%        |
| 5         | 6.784       | 753           | 756         | 762          | rVB      | 11370          | 10440         | 1.09%           | 0.106%        |
| 6         | 6.960       | 783           | 786         | 790          | rVB      | 407795         | 327867        | 34.23%          | 3.343%        |
| 7         | 7.119       | 809           | 813         | 816          | rBV      | 803102         | 683212        | 71.34%          | 6.967%        |
| 8         | 7.525       | 877           | 882         | 885          | rBV      | 646792         | 555249        | 57.98%          | 5.662%        |
| 9         | 8.242       | 1001          | 1004        | 1010         | rBV      | 427673         | 382981        | 39.99%          | 3.905%        |
| 10        | 9.319       | 1183          | 1187        | 1190         | rBV      | 832701         | 766772        | 80.06%          | 7.819%        |
| 11        | 9.707       | 1250          | 1253        | 1259         | rVB      | 92043          | 81055         | 8.46%           | 0.827%        |
| 12        | 9.866       | 1276          | 1280        | 1284         | rBV      | 16968          | 15353         | 1.60%           | 0.157%        |
| 13        | 9.913       | 1284          | 1288        | 1290         | rVB      | 18183          | 15479         | 1.62%           | 0.158%        |
| 14        | 10.001      | 1300          | 1303        | 1307         | rBV2     | 434230         | 379187        | 39.59%          | 3.867%        |
| 15        | 10.036      | 1307          | 1309        | 1315         | rVB      | 16625          | 13808         | 1.44%           | 0.141%        |
| 16        | 10.313      | 1352          | 1356        | 1360         | rBV4     | 5768           | 10376         | 1.08%           | 0.106%        |
| 17        | 10.413      | 1367          | 1373        | 1376         | rVB      | 29176          | 28137         | 2.94%           | 0.287%        |
| 18        | 10.554      | 1393          | 1397        | 1403         | rVB2     | 10637          | 13638         | 1.42%           | 0.139%        |
| 19        | 10.636      | 1403          | 1411        | 1413         | rBV3     | 11740          | 16026         | 1.67%           | 0.163%        |
| 20        | 10.795      | 1435          | 1438        | 1446         | rVV      | 641099         | 552397        | 57.68%          | 5.633%        |
| 21        | 10.889      | 1450          | 1454        | 1464         | rVB2     | 25129          | 37995         | 3.97%           | 0.387%        |
| 22        | 11.101      | 1484          | 1490        | 1493         | rBV5     | 8655           | 15026         | 1.57%           | 0.153%        |
| 23        | 11.336      | 1527          | 1530        | 1532         | rBV2     | 19758          | 15494         | 1.62%           | 0.158%        |
| 24        | 11.495      | 1553          | 1557        | 1559         | rBV      | 521289         | 421030        | 43.96%          | 4.293%        |
| 25        | 11.519      | 1559          | 1561        | 1564         | rVV      | 107008         | 81006         | 8.46%           | 0.826%        |
| 26        | 11.572      | 1567          | 1570        | 1572         | rVV      | 27850          | 21801         | 2.28%           | 0.222%        |
| 27        | 11.730      | 1592          | 1597        | 1600         | rBV3     | 10405          | 17504         | 1.83%           | 0.178%        |
| 28        | 11.766      | 1600          | 1603        | 1605         | rVB2     | 12638          | 11878         | 1.24%           | 0.121%        |
| 29        | 11.995      | 1640          | 1642        | 1645         | rBV      | 25942          | 24718         | 2.58%           | 0.252%        |
| 30        | 12.025      | 1645          | 1647        | 1651         | rVV2     | 38792          | 34302         | 3.58%           | 0.350%        |
| 31        | 12.072      | 1653          | 1655        | 1658         | rVV      | 22970          | 23016         | 2.40%           | 0.235%        |
| 32        | 12.113      | 1658          | 1662        | 1664         | rVV2     | 39011          | 51217         | 5.35%           | 0.522%        |
| 33        | 12.130      | 1664          | 1665        | 1669         | rVB      | 20406          | 17816         | 1.86%           | 0.182%        |
| 34        | 12.289      | 1689          | 1692        | 1695         | rBV2     | 21063          | 20121         | 2.10%           | 0.205%        |

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BNA\_F  
ClientSampleId :  
26KV-TP-1

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061918.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 12.472 | 1721 | 1723 | 1726 | rBV  | 12651  | 14094  | 1.47%  | 0.144% |
| 36 | 12.548 | 1733 | 1736 | 1740 | rBV2 | 40015  | 51456  | 5.37%  | 0.525% |
| 37 | 12.583 | 1740 | 1742 | 1744 | rVV2 | 20639  | 19284  | 2.01%  | 0.197% |
| 38 | 12.636 | 1748 | 1751 | 1754 | rBV4 | 17463  | 25127  | 2.62%  | 0.256% |
| 39 | 12.713 | 1760 | 1764 | 1767 | rBV  | 175875 | 151831 | 15.85% | 1.548% |
| 40 | 12.742 | 1767 | 1769 | 1773 | rVB2 | 30517  | 32323  | 3.38%  | 0.330% |
| 41 | 12.807 | 1778 | 1780 | 1782 | rVV  | 19477  | 15734  | 1.64%  | 0.160% |
| 42 | 12.883 | 1791 | 1793 | 1797 | rVB3 | 24766  | 23448  | 2.45%  | 0.239% |
| 43 | 12.942 | 1797 | 1803 | 1809 | rBV  | 154113 | 201300 | 21.02% | 2.053% |
| 44 | 12.995 | 1810 | 1812 | 1815 | rVV  | 16984  | 17010  | 1.78%  | 0.173% |
| 45 | 13.077 | 1822 | 1826 | 1830 | rBV  | 922098 | 826951 | 86.35% | 8.433% |
| 46 | 13.336 | 1868 | 1870 | 1872 | rBV  | 36118  | 26512  | 2.77%  | 0.270% |
| 47 | 14.148 | 2004 | 2008 | 2011 | rBV  | 435316 | 432434 | 45.15% | 4.410% |
| 48 | 15.613 | 2255 | 2257 | 2263 | rVB  | 42489  | 51474  | 5.37%  | 0.525% |
| 49 | 15.683 | 2265 | 2269 | 2284 | rVB  | 230452 | 334296 | 34.91% | 3.409% |

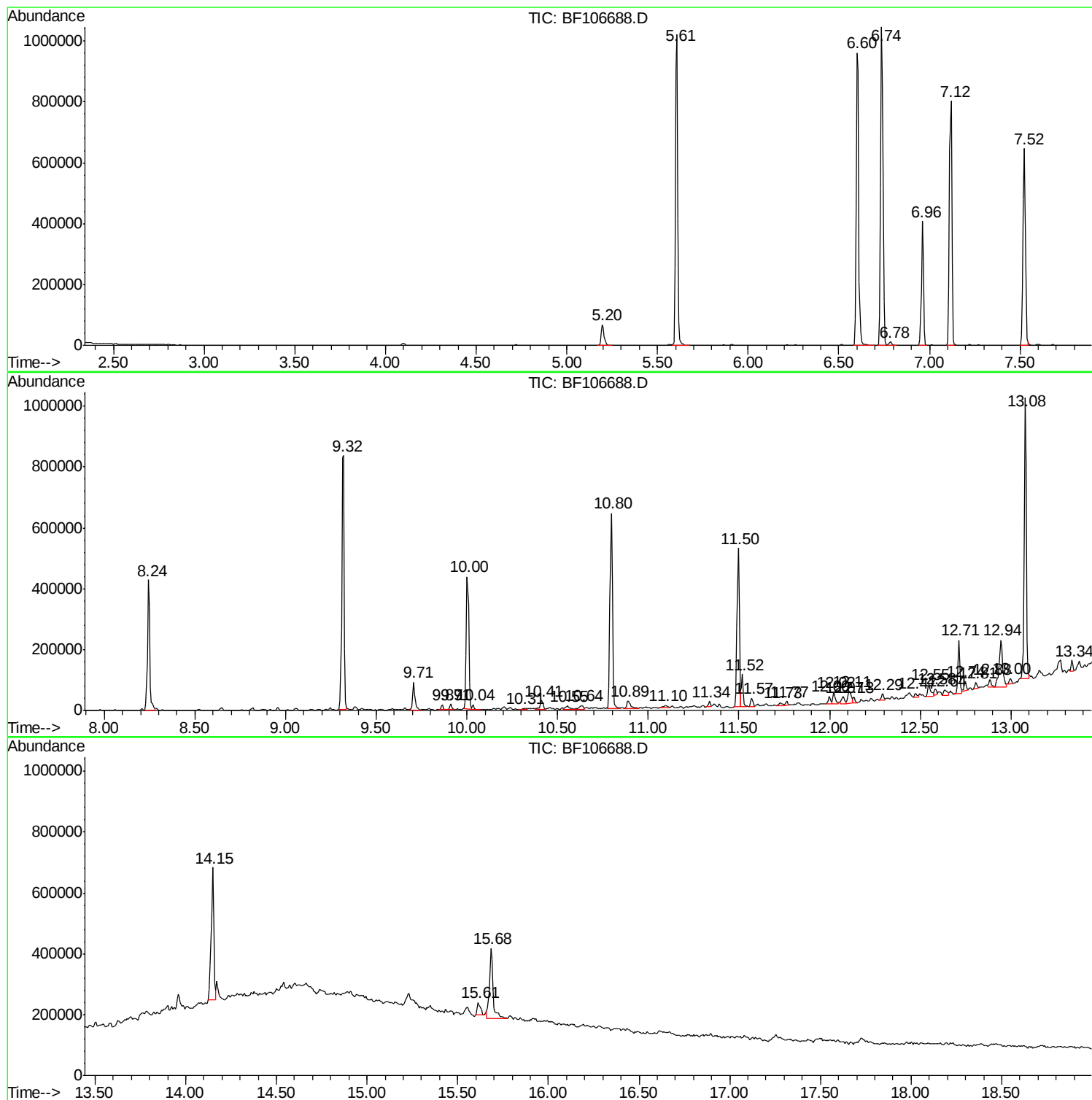
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26KV-TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061918.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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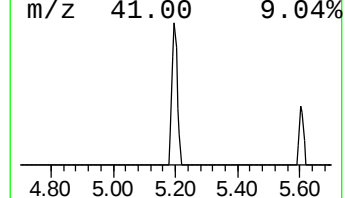
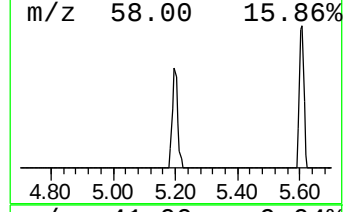
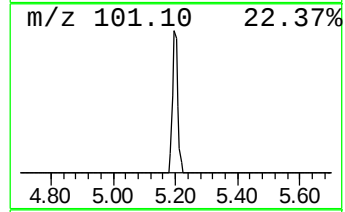
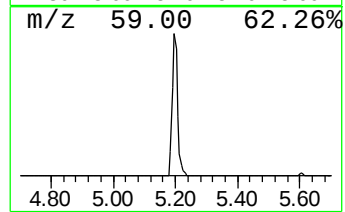
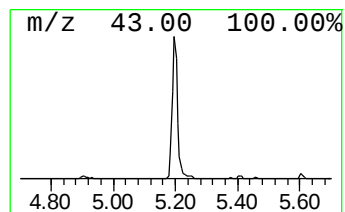
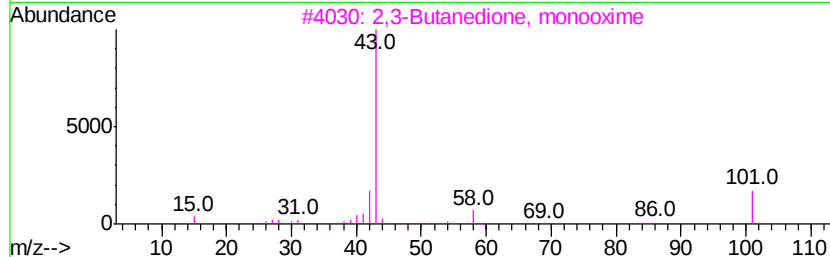
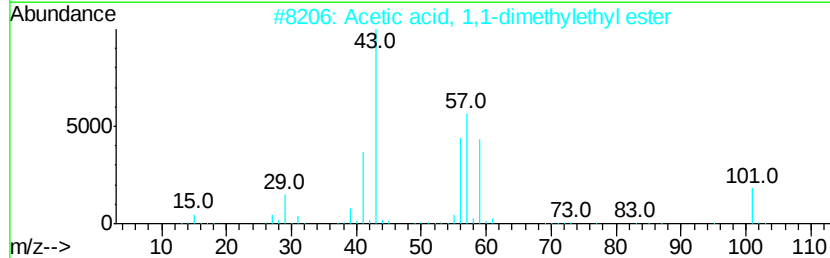
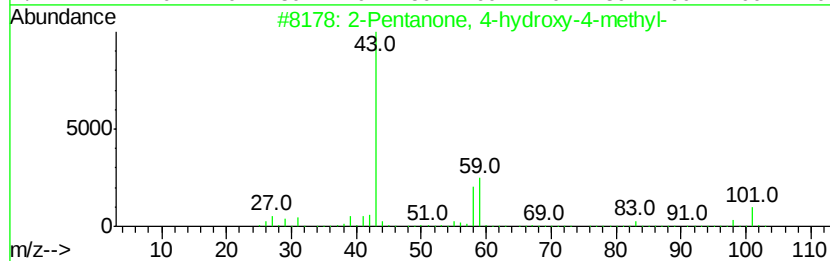
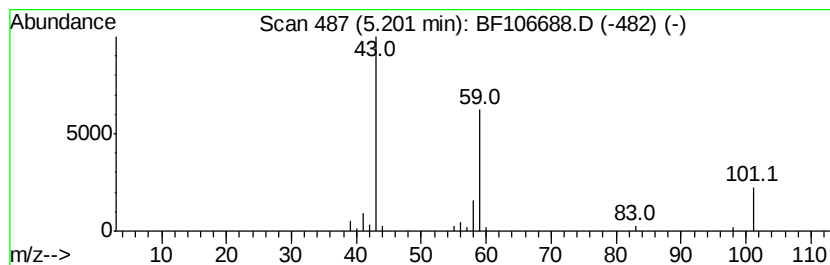
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area  | Relative to ISTD       | R.T. |
|------|---------|-------|------------------------|------|
| 5.20 | 4.84 ng | 79280 | 1,4-Dichlorobenzene-d4 | 6.96 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 64   |
| 2    |    |   | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 39   |
| 3    |    |   | 2,3-Butanedione, monooxime          | 101 | C4H7NO2 | 000057-71-6 | 35   |
| 4    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O  | 000615-29-2 | 28   |
| 5    |    |   | 3-Hexanol                           | 102 | C6H14O  | 000623-37-0 | 28   |



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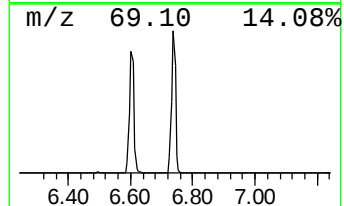
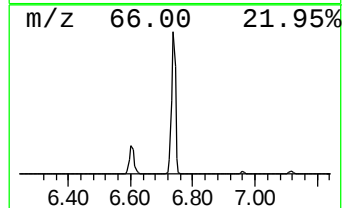
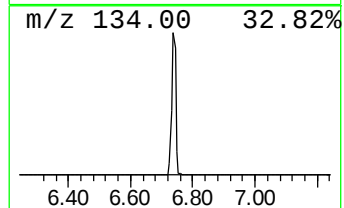
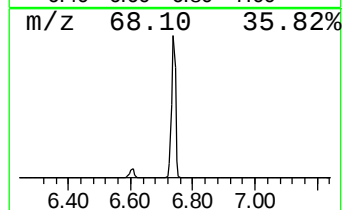
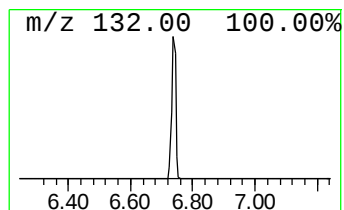
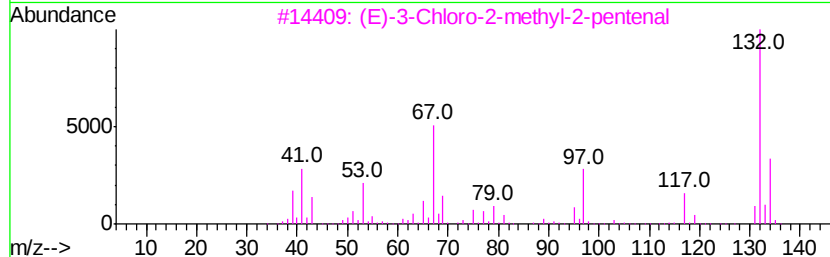
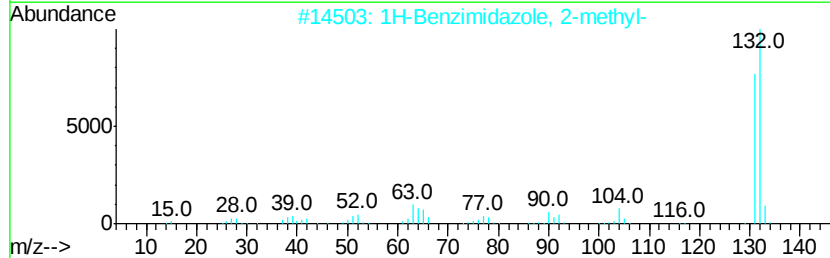
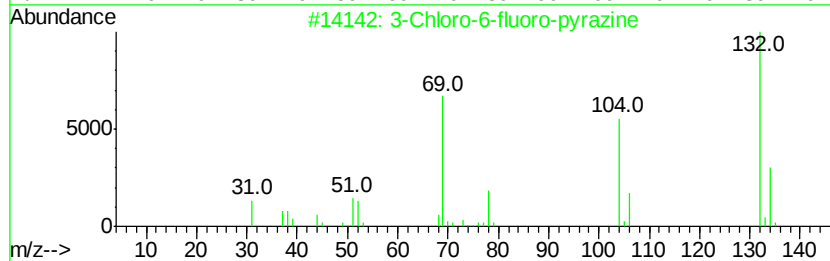
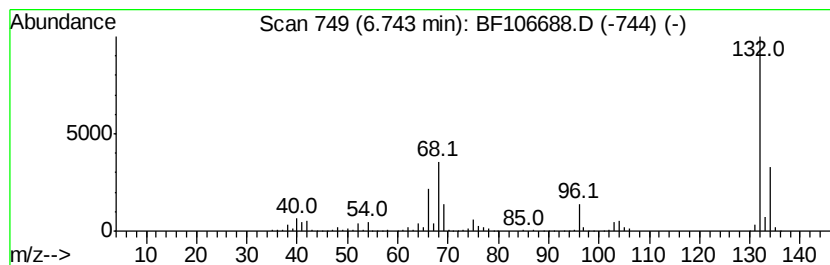
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.74 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.74 | 57.95 ng | 949943 | 1,4-Dichlorobenzene-d4 | 6.96 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 16   |
| 2    |    | 1H-Benzimidazole, 2-methyl-         | 132 | C8H8N2    | 000615-15-6  | 10   |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 4    |    | 4-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-60-2  | 9    |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

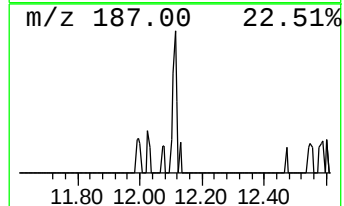
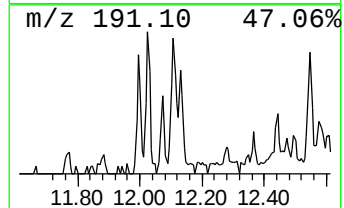
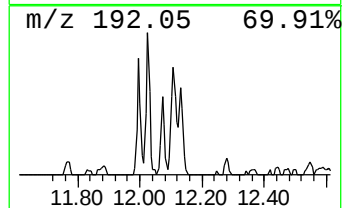
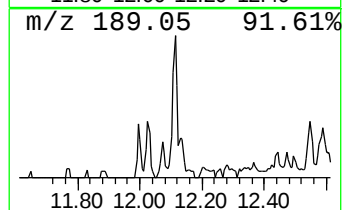
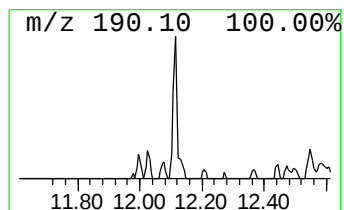
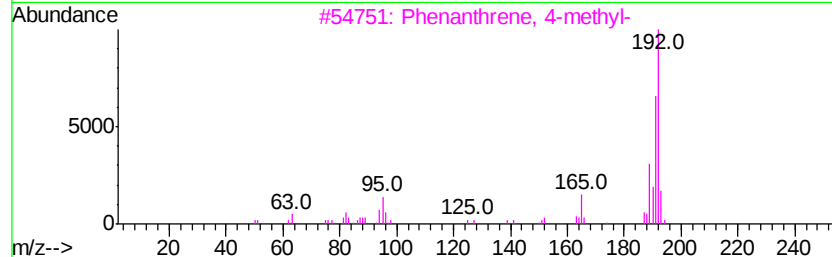
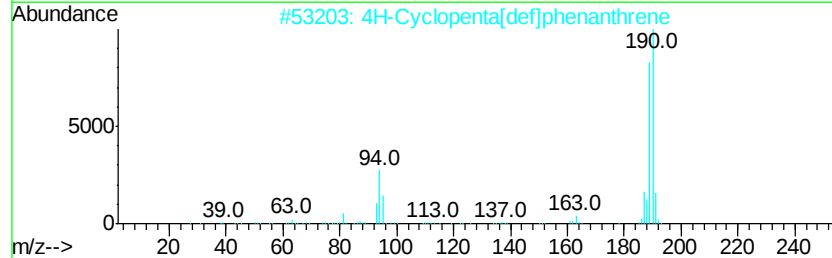
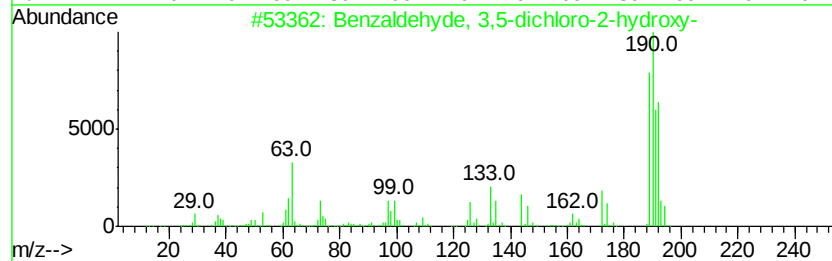
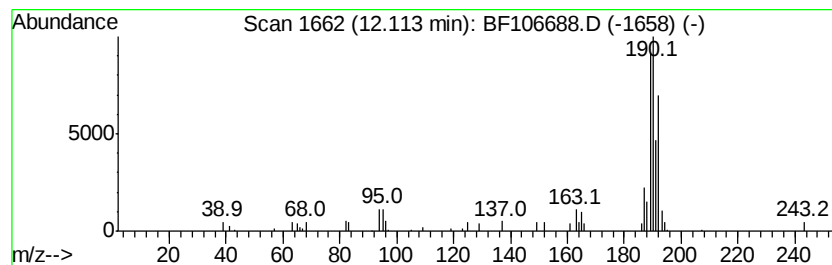
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Benzaldehyde, 3,5-dichloro-... Concentration Rank 5

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.11 | 2.43 ng | 51217 | Phenanthrene-d10 | 11.50 |

| Hit# of | 5 | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|---------|---|--------------------------------------|-----|-----------|--------------|------|
| 1       |   | Benzaldehydve, 3,5-dichloro-2-hvd... | 190 | C7H4Cl2O2 | 000090-60-8  | 72   |
| 2       |   | 4H-Cyclopenta[def]phenanthrene       | 190 | C15H10    | 000203-64-5  | 53   |
| 3       |   | Phenanthrene, 4-methyl-              | 192 | C15H12    | 000832-64-4  | 30   |
| 4       |   | 5-Thiazolecarboxamide, 4-amino-2...  | 189 | C5H7N3OS2 | 1000338-08-9 | 27   |
| 5       |   | 5H-Dibenzo[a,d]cycloheptene          | 192 | C15H12    | 000256-81-5  | 25   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

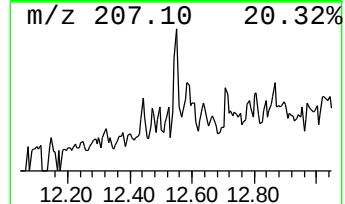
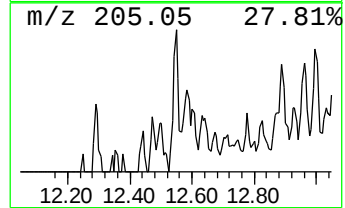
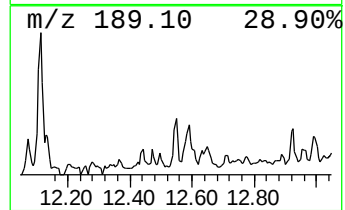
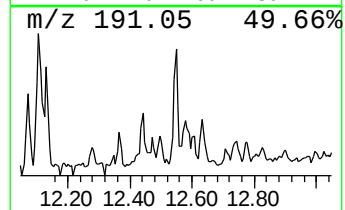
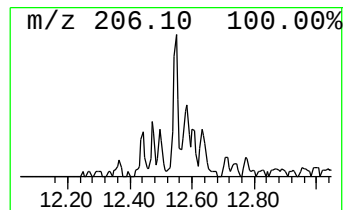
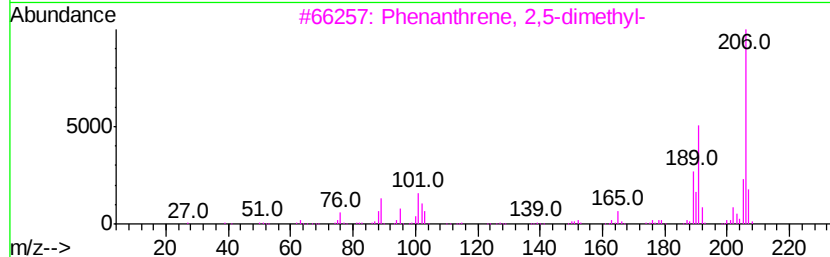
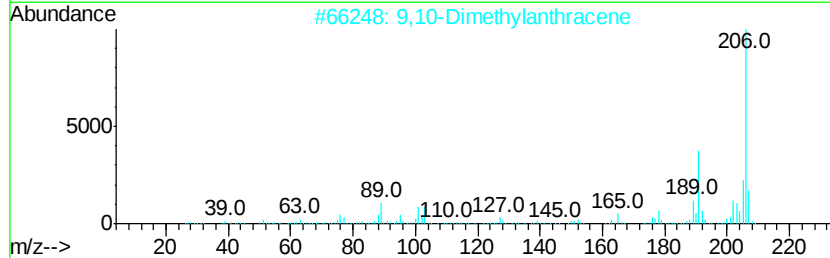
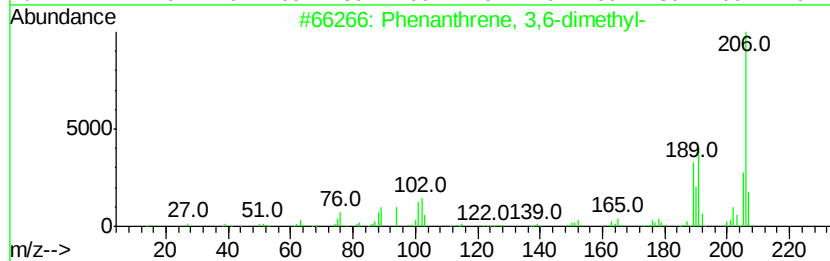
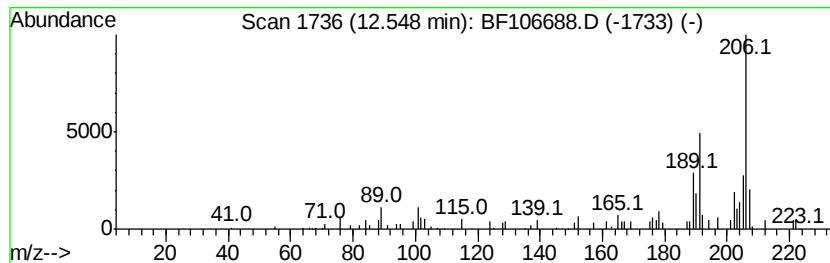
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Phenanthrene, 3,6-dimethyl- Concentration Rank 4

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.55 | 2.44 ng | 51456 | Phenanthrene-d10 | 11.50 |

| Hit# of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|---------|---|-----------------------------|-----|---------|-------------|------|
| 1       |   | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 93   |
| 2       |   | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 93   |
| 3       |   | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 90   |
| 4       |   | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 89   |
| 5       |   | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 89   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062118\  
Data File : BF106688.D  
Acq On : 22 Jun 2018 3:34  
Operator : JU/SJ  
Sample : J3603-01  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
26KV-TP-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF061918.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 |
| 2-Pentanone, 4-hy... | 5.20  | 4.8     | ng    | 79280    | 1                     | 6.96  | 327867 | 20.0 |
| unknown6.74          | 6.74  | 58.0    | ng    | 949943   | 1                     | 6.96  | 327867 | 20.0 |
| Benzaldehyde, 3,5... | 12.11 | 2.4     | ng    | 51217    | 4                     | 11.50 | 421030 | 20.0 |
| Phenanthrene, 3,6... | 12.55 | 2.4     | ng    | 51456    | 4                     | 11.50 | 421030 | 20.0 |