

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
 Data File : BF122583.D  
 Acq On : 7 Dec 2020 21:03  
 Operator : JU/CG  
 Sample : L4950-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-02-120420

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-BF120520.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF122583.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         | 5.451       | 568           | 572         | 583          | rBV      | 2032682        | 1796382       | 19.70%          | 2.451%        |
| 2         | 6.463       | 740           | 744         | 751          | rBV      | 2077074        | 1849164       | 20.28%          | 2.523%        |
| 3         | 6.675       | 776           | 780         | 788          | rBV2     | 145704         | 191007        | 2.09%           | 0.261%        |
| 4         | 6.839       | 804           | 808         | 815          | rVB      | 1361418        | 1185148       | 13.00%          | 1.617%        |
| 5         | 7.116       | 849           | 855         | 858          | rVB4     | 74890          | 99843         | 1.10%           | 0.136%        |
| 6         | 7.398       | 899           | 903         | 906          | rBV      | 1341114        | 1076665       | 11.81%          | 1.469%        |
| 7         | 7.439       | 908           | 910         | 914          | rVB      | 297918         | 222018        | 2.43%           | 0.303%        |
| 8         | 7.486       | 914           | 918         | 921          | rVB4     | 75498          | 106152        | 1.16%           | 0.145%        |
| 9         | 7.557       | 921           | 930         | 932          | rBV4     | 48551          | 116495        | 1.28%           | 0.159%        |
| 10        | 7.875       | 980           | 984         | 989          | rVB5     | 80913          | 103100        | 1.13%           | 0.141%        |
| 11        | 8.122       | 1021          | 1026        | 1029         | rVV      | 1855401        | 1843985       | 20.22%          | 2.516%        |
| 12        | 8.186       | 1033          | 1037        | 1039         | rVB2     | 177787         | 183913        | 2.02%           | 0.251%        |
| 13        | 8.416       | 1071          | 1076        | 1079         | rBV5     | 140341         | 173327        | 1.90%           | 0.236%        |
| 14        | 8.469       | 1083          | 1085        | 1088         | rBV3     | 97871          | 93920         | 1.03%           | 0.128%        |
| 15        | 8.504       | 1088          | 1091        | 1094         | rBV3     | 113893         | 118181        | 1.30%           | 0.161%        |
| 16        | 8.545       | 1095          | 1098        | 1100         | rBV      | 186083         | 151130        | 1.66%           | 0.206%        |
| 17        | 8.628       | 1109          | 1112        | 1115         | rBV2     | 113038         | 94959         | 1.04%           | 0.130%        |
| 18        | 8.716       | 1124          | 1127        | 1130         | rBV      | 488525         | 384434        | 4.22%           | 0.524%        |
| 19        | 8.945       | 1161          | 1166        | 1168         | rBV2     | 110214         | 144379        | 1.58%           | 0.197%        |
| 20        | 9.080       | 1187          | 1189        | 1192         | rVB2     | 105352         | 96694         | 1.06%           | 0.132%        |
| 21        | 9.145       | 1197          | 1200        | 1205         | rVB3     | 192573         | 173258        | 1.90%           | 0.236%        |
| 22        | 9.198       | 1205          | 1209        | 1212         | rBV      | 2226497        | 1897795       | 20.81%          | 2.589%        |
| 23        | 9.280       | 1220          | 1223        | 1227         | rBV      | 578861         | 473059        | 5.19%           | 0.645%        |
| 24        | 9.469       | 1250          | 1255        | 1258         | rVB3     | 94873          | 149834        | 1.64%           | 0.204%        |
| 25        | 9.557       | 1268          | 1270        | 1273         | rVB2     | 122892         | 102879        | 1.13%           | 0.140%        |
| 26        | 9.598       | 1273          | 1277        | 1280         | rBV2     | 251770         | 391112        | 4.29%           | 0.534%        |
| 27        | 9.657       | 1284          | 1287        | 1290         | rVB2     | 126430         | 131778        | 1.45%           | 0.180%        |
| 28        | 9.733       | 1297          | 1300        | 1305         | rVB      | 197636         | 201752        | 2.21%           | 0.275%        |
| 29        | 9.810       | 1310          | 1313        | 1316         | rVV      | 543961         | 404998        | 4.44%           | 0.553%        |
| 30        | 9.875       | 1318          | 1324        | 1327         | rVV      | 1749713        | 1630705       | 17.88%          | 2.225%        |
| 31        | 9.910       | 1327          | 1330        | 1333         | rVB      | 135901         | 124792        | 1.37%           | 0.170%        |
| 32        | 10.080      | 1355          | 1359        | 1364         | rVB2     | 157756         | 183573        | 2.01%           | 0.250%        |
| 33        | 10.133      | 1364          | 1368        | 1372         | rVB6     | 100300         | 147638        | 1.62%           | 0.201%        |
| 34        | 10.310      | 1395          | 1398        | 1400         | rVB      | 494139         | 364948        | 4.00%           | 0.498%        |
| 35        | 10.422      | 1414          | 1417        | 1423         | rBV      | 261155         | 283005        | 3.10%           | 0.386%        |
| 36        | 10.533      | 1430          | 1436        | 1439         | rBV      | 178764         | 260436        | 2.86%           | 0.355%        |

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 Misc :  
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 ClientSampleId :  
 PL-02-120420

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-BF120520.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 37 | 10.580 | 1441 | 1444 | 1447 | rVB2 | 119316  | 108125  | 1.19%   | 0.148%  |
| 38 | 10.663 | 1453 | 1458 | 1462 | rBV  | 1232613 | 1123533 | 12.32%  | 1.533%  |
| 39 | 10.780 | 1475 | 1478 | 1486 | rVB  | 473065  | 555690  | 6.09%   | 0.758%  |
| 40 | 10.974 | 1506 | 1511 | 1513 | rBV2 | 108126  | 133609  | 1.47%   | 0.182%  |
| 41 | 11.227 | 1552 | 1554 | 1557 | rVV  | 319152  | 263045  | 2.88%   | 0.359%  |
| 42 | 11.257 | 1557 | 1559 | 1566 | rVB  | 252904  | 289226  | 3.17%   | 0.395%  |
| 43 | 11.363 | 1573 | 1577 | 1579 | rBV  | 1570243 | 1394036 | 15.29%  | 1.902%  |
| 44 | 11.386 | 1579 | 1581 | 1584 | rVV  | 1359403 | 1026179 | 11.25%  | 1.400%  |
| 45 | 11.433 | 1586 | 1589 | 1593 | rVB  | 577222  | 501049  | 5.50%   | 0.684%  |
| 46 | 11.657 | 1624 | 1627 | 1629 | rBV  | 384868  | 289068  | 3.17%   | 0.394%  |
| 47 | 11.680 | 1629 | 1631 | 1639 | rVB3 | 410011  | 418611  | 4.59%   | 0.571%  |
| 48 | 11.763 | 1640 | 1645 | 1648 | rBV  | 4729395 | 4485947 | 49.20%  | 6.120%  |
| 49 | 11.863 | 1659 | 1662 | 1664 | rBV  | 293052  | 228740  | 2.51%   | 0.312%  |
| 50 | 11.892 | 1664 | 1667 | 1672 | rVV  | 823557  | 834572  | 9.15%   | 1.139%  |
| 51 | 11.939 | 1672 | 1675 | 1678 | rVV  | 211576  | 212740  | 2.33%   | 0.290%  |
| 52 | 11.974 | 1678 | 1681 | 1684 | rVV  | 551133  | 609071  | 6.68%   | 0.831%  |
| 53 | 11.998 | 1684 | 1685 | 1690 | rVB  | 245622  | 148228  | 1.63%   | 0.202%  |
| 54 | 12.063 | 1693 | 1696 | 1700 | rVB  | 229836  | 212408  | 2.33%   | 0.290%  |
| 55 | 12.157 | 1710 | 1712 | 1715 | rBV  | 233216  | 204762  | 2.25%   | 0.279%  |
| 56 | 12.339 | 1740 | 1743 | 1745 | rBV  | 105476  | 101681  | 1.12%   | 0.139%  |
| 57 | 12.416 | 1752 | 1756 | 1757 | rBV  | 220420  | 226442  | 2.48%   | 0.309%  |
| 58 | 12.451 | 1757 | 1762 | 1764 | rVV  | 7382841 | 9117930 | 100.00% | 12.439% |
| 59 | 12.474 | 1764 | 1766 | 1772 | rVV2 | 7909761 | 7551096 | 82.82%  | 10.302% |
| 60 | 12.551 | 1775 | 1779 | 1781 | rBV  | 1980168 | 1635210 | 17.93%  | 2.231%  |
| 61 | 12.580 | 1781 | 1784 | 1786 | rVB  | 2296994 | 2066176 | 22.66%  | 2.819%  |
| 62 | 12.686 | 1796 | 1802 | 1807 | rBV2 | 1852761 | 2069219 | 22.69%  | 2.823%  |
| 63 | 12.810 | 1816 | 1823 | 1828 | rVB2 | 2010061 | 2633936 | 28.89%  | 3.593%  |
| 64 | 12.857 | 1828 | 1831 | 1836 | rVB2 | 98365   | 154811  | 1.70%   | 0.211%  |
| 65 | 12.927 | 1840 | 1843 | 1844 | rBV  | 119768  | 135013  | 1.48%   | 0.184%  |
| 66 | 12.945 | 1844 | 1846 | 1855 | rVB  | 1481639 | 1446868 | 15.87%  | 1.974%  |
| 67 | 13.027 | 1855 | 1860 | 1863 | rBV2 | 187515  | 317489  | 3.48%   | 0.433%  |
| 68 | 13.110 | 1871 | 1874 | 1876 | rBV3 | 324448  | 348569  | 3.82%   | 0.476%  |
| 69 | 13.133 | 1876 | 1878 | 1881 | rVV2 | 548271  | 446753  | 4.90%   | 0.609%  |
| 70 | 13.198 | 1883 | 1889 | 1892 | rVV3 | 592426  | 636311  | 6.98%   | 0.868%  |
| 71 | 13.233 | 1892 | 1895 | 1898 | rVV2 | 242889  | 260847  | 2.86%   | 0.356%  |
| 72 | 13.274 | 1899 | 1902 | 1904 | rVB2 | 168028  | 138115  | 1.51%   | 0.188%  |
| 73 | 13.327 | 1909 | 1911 | 1914 | rVV  | 148477  | 147248  | 1.61%   | 0.201%  |
| 74 | 13.357 | 1914 | 1916 | 1920 | rVB  | 168003  | 160935  | 1.77%   | 0.220%  |
| 75 | 13.615 | 1957 | 1960 | 1962 | rBV2 | 89111   | 112978  | 1.24%   | 0.154%  |
| 76 | 13.639 | 1962 | 1964 | 1969 | rVB  | 109893  | 139524  | 1.53%   | 0.190%  |

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 Sample : L4950-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-02-120420

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-BF120520.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 13.751 | 1980 | 1983 | 1986 | rBV2 | 158414  | 149449  | 1.64%  | 0.204% |
| 78  | 13.780 | 1986 | 1988 | 1990 | rVV  | 180825  | 144084  | 1.58%  | 0.197% |
| 79  | 13.804 | 1990 | 1992 | 1997 | rVV2 | 151934  | 191075  | 2.10%  | 0.261% |
| 80  | 13.851 | 1997 | 2000 | 2008 | rVB5 | 132492  | 223638  | 2.45%  | 0.305% |
| 81  | 13.945 | 2013 | 2016 | 2018 | rVB2 | 121321  | 104658  | 1.15%  | 0.143% |
| 82  | 13.998 | 2020 | 2025 | 2028 | rBV2 | 1830859 | 2637619 | 28.93% | 3.598% |
| 83  | 14.027 | 2028 | 2030 | 2033 | rVB  | 1059604 | 813626  | 8.92%  | 1.110% |
| 84  | 14.110 | 2041 | 2044 | 2046 | rVB  | 208726  | 169799  | 1.86%  | 0.232% |
| 85  | 14.227 | 2060 | 2064 | 2067 | rBV2 | 94918   | 143491  | 1.57%  | 0.196% |
| 86  | 14.386 | 2089 | 2091 | 2094 | rVB  | 267150  | 233603  | 2.56%  | 0.319% |
| 87  | 14.421 | 2094 | 2097 | 2100 | rVB  | 135084  | 128115  | 1.41%  | 0.175% |
| 88  | 14.474 | 2104 | 2106 | 2110 | rVV2 | 229023  | 312027  | 3.42%  | 0.426% |
| 89  | 14.515 | 2110 | 2113 | 2114 | rVV  | 192103  | 194620  | 2.13%  | 0.266% |
| 90  | 14.533 | 2114 | 2116 | 2119 | rVB2 | 172248  | 156521  | 1.72%  | 0.214% |
| 91  | 15.045 | 2198 | 2203 | 2205 | rBV  | 1095435 | 1571277 | 17.23% | 2.144% |
| 92  | 15.115 | 2213 | 2215 | 2218 | rVB  | 143202  | 134994  | 1.48%  | 0.184% |
| 93  | 15.151 | 2218 | 2221 | 2225 | rVB  | 225533  | 241356  | 2.65%  | 0.329% |
| 94  | 15.345 | 2250 | 2254 | 2260 | rVB  | 625196  | 834394  | 9.15%  | 1.138% |
| 95  | 15.404 | 2260 | 2264 | 2270 | rBV  | 1004799 | 1293131 | 14.18% | 1.764% |
| 96  | 15.468 | 2271 | 2275 | 2278 | rVV  | 1142119 | 1411755 | 15.48% | 1.926% |
| 97  | 15.498 | 2278 | 2280 | 2286 | rVB2 | 405869  | 467127  | 5.12%  | 0.637% |
| 98  | 16.174 | 2391 | 2395 | 2403 | rVB  | 282800  | 481895  | 5.29%  | 0.657% |
| 99  | 16.921 | 2517 | 2522 | 2529 | rVB2 | 436911  | 818138  | 8.97%  | 1.116% |
| 100 | 17.362 | 2591 | 2597 | 2607 | rBV  | 296057  | 605136  | 6.64%  | 0.826% |

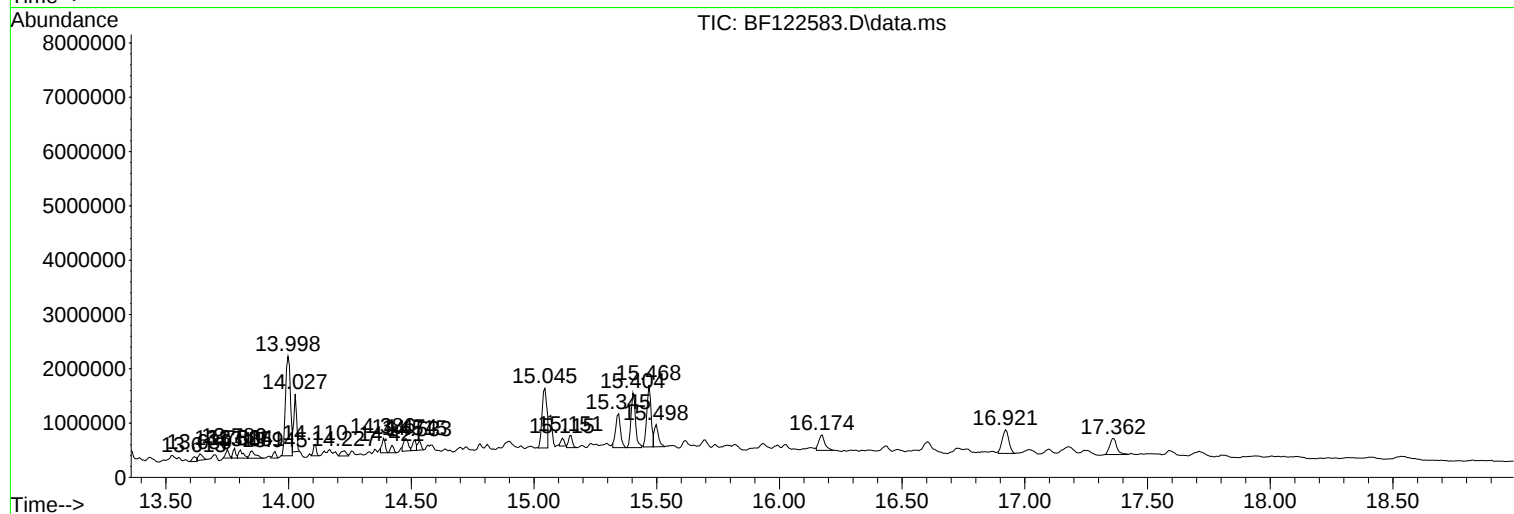
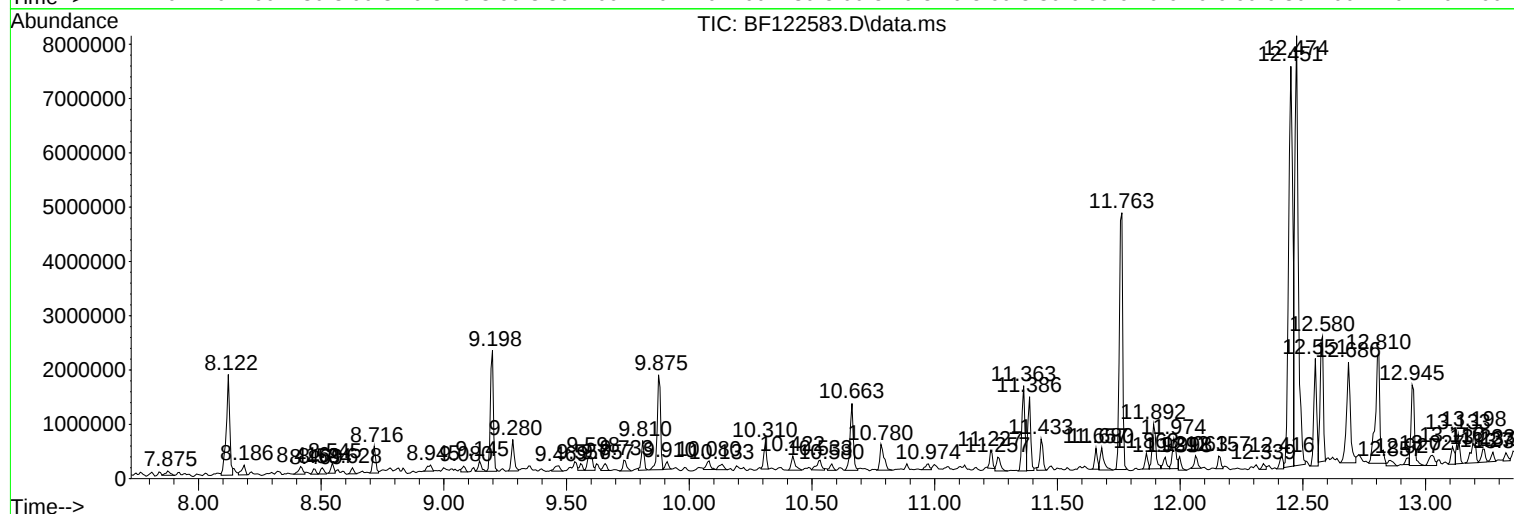
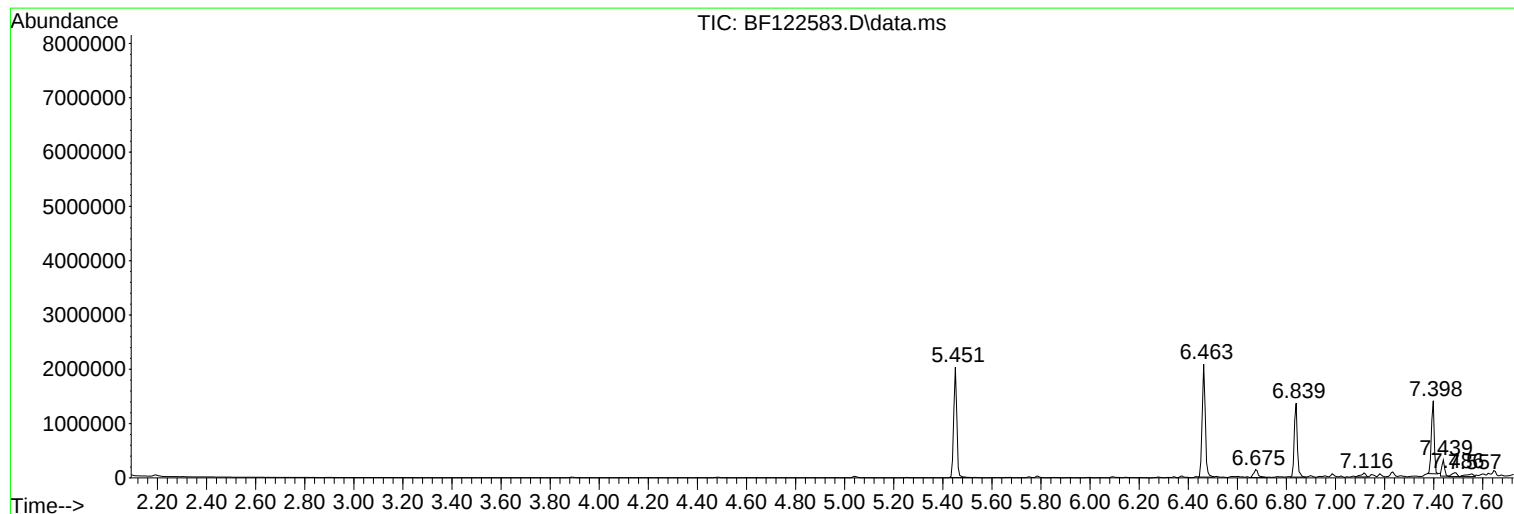
Sum of corrected areas: 73299776

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ALS Vial : 18 Sample Multiplier: 1

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.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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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

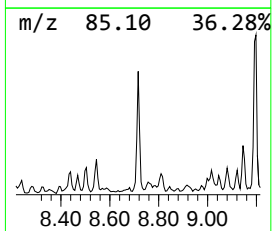
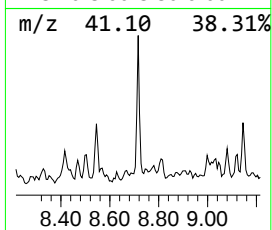
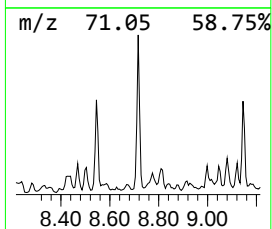
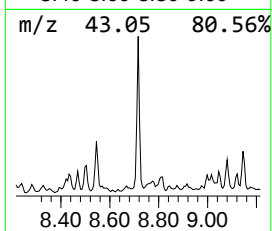
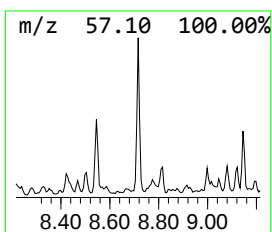
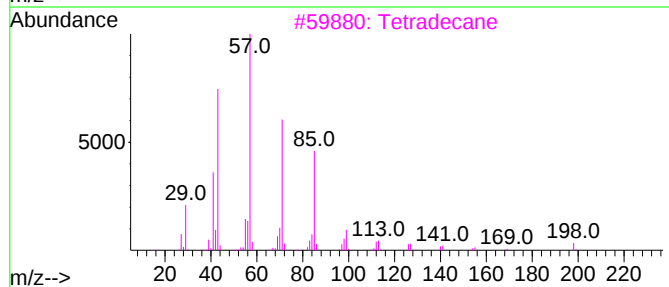
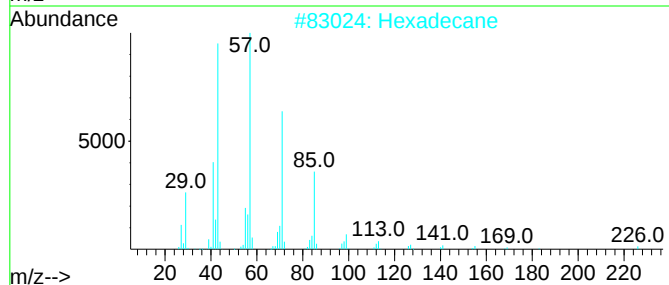
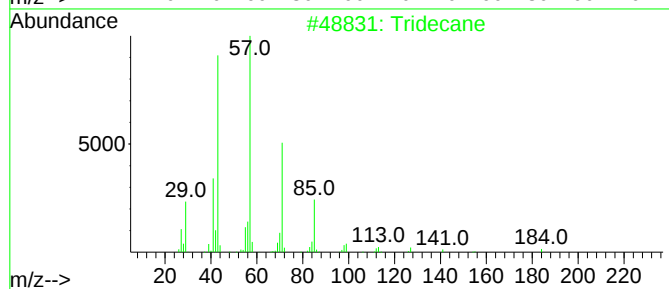
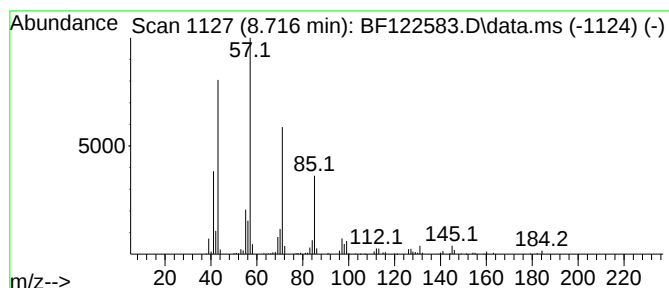
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Peak Number 1 Tridecane Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 8.716 | 4.17 ng | 384434 | Naphthalene-d8   | 8.122 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------|-----|----------|-------------|------|
| 1    |    |   | Tridecane               | 184 | C13H28   | 000629-50-5 | 93   |
| 2    |    |   | Hexadecane              | 226 | C16H34   | 000544-76-3 | 83   |
| 3    |    |   | Tetradecane             | 198 | C14H30   | 000629-59-4 | 80   |
| 4    |    |   | Undecane, 2,3-dimethyl- | 184 | C13H28   | 017312-77-5 | 80   |
| 5    |    |   | 2-Bromo dodecane        | 248 | C12H25Br | 013187-99-0 | 64   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

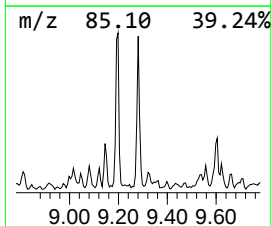
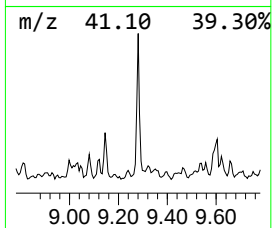
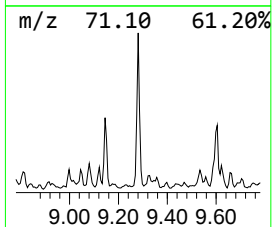
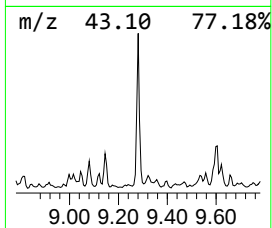
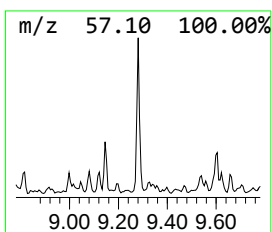
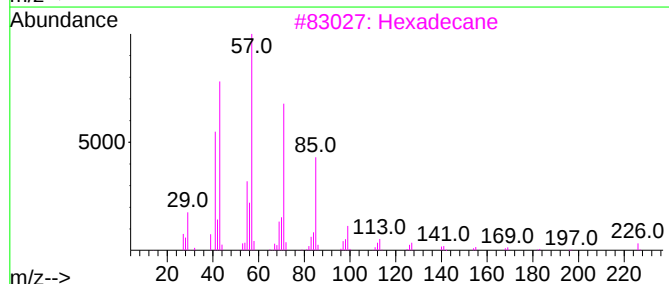
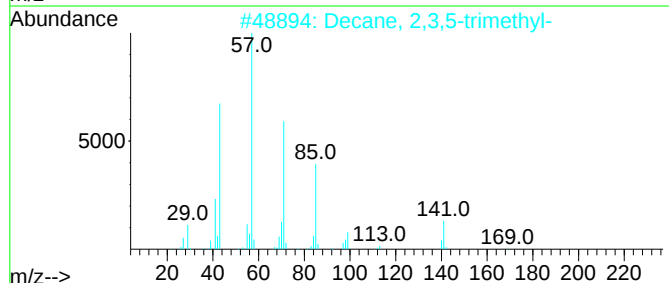
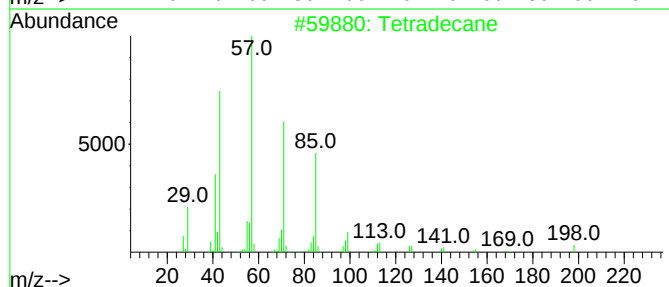
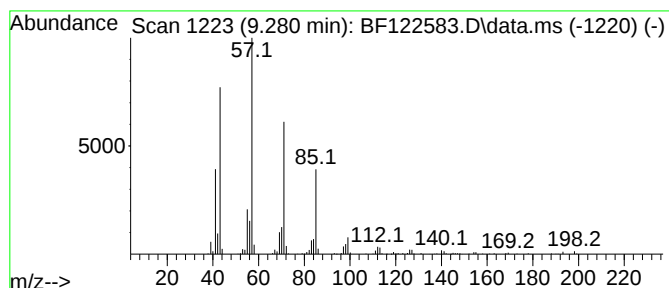
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Tetradecane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.280 | 5.80 ng | 473059 | Acenaphthene-d10 | 9.875 |

| Hit# | of 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------|-----|---------|-------------|------|
| 1    |      | Tetradecane              | 198 | C14H30  | 000629-59-4 | 95   |
| 2    |      | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 90   |
| 3    |      | Hexadecane               | 226 | C16H34  | 000544-76-3 | 86   |
| 4    |      | Nonadecane               | 268 | C19H40  | 000629-92-5 | 86   |
| 5    |      | 9-methylheptadecane      | 254 | C18H38  | 026741-18-4 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

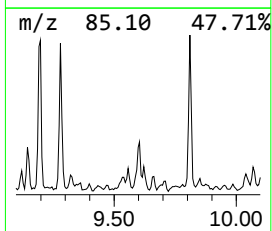
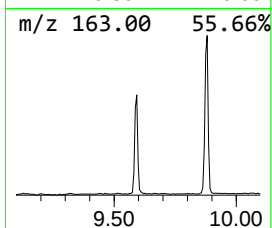
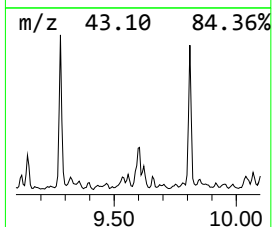
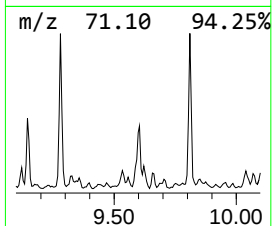
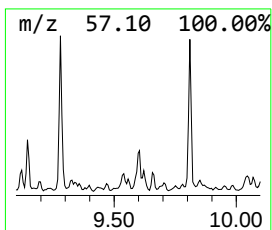
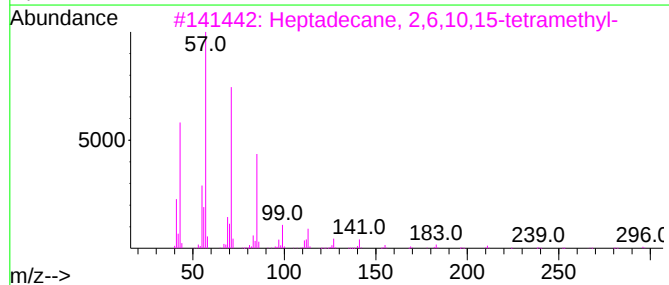
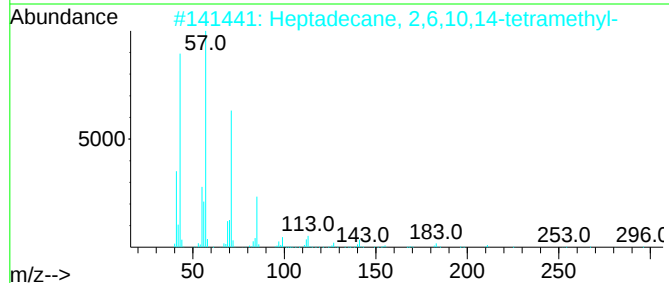
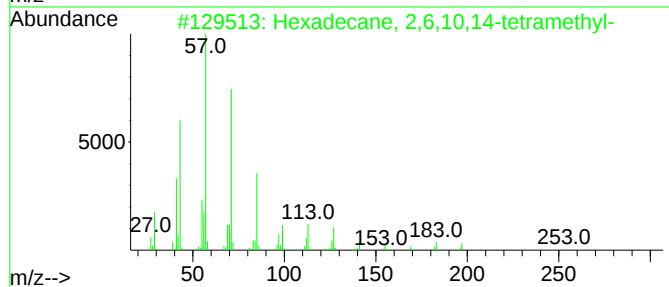
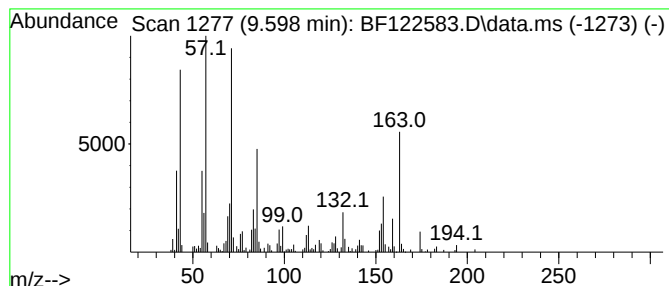
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown9.598 Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.598 | 4.80 ng | 391112 | Acenaphthene-d10 | 9.875 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Hexadecane, 2,6,10,14-tetramethyl-  | 282 | C20H42      | 000638-36-8  | 46   |
| 2    |    |   | Heptadecane, 2,6,10,14-tetramethyl- | 296 | C21H44      | 018344-37-1  | 46   |
| 3    |    |   | Heptadecane, 2,6,10,15-tetramethyl- | 296 | C21H44      | 054833-48-6  | 46   |
| 4    |    |   | Nonadecane                          | 268 | C19H40      | 000629-92-5  | 43   |
| 5    |    |   | 1-Octadecanesulphonyl chloride      | 352 | C18H37ClO2S | 1000342-70-4 | 43   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

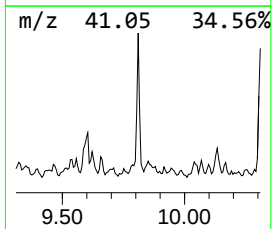
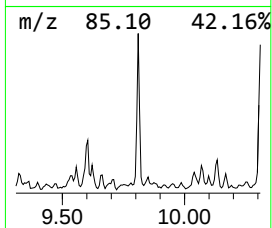
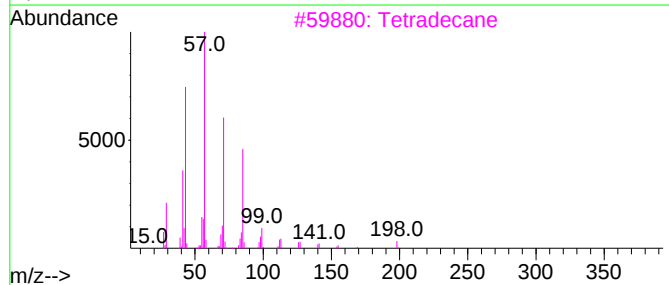
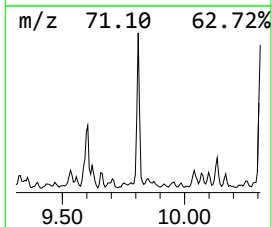
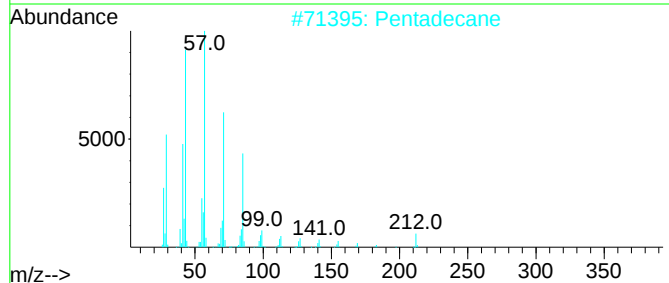
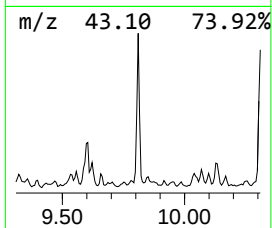
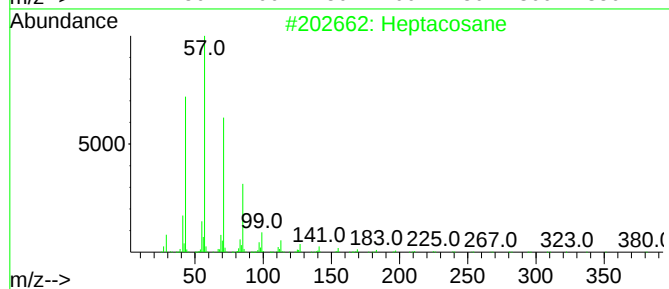
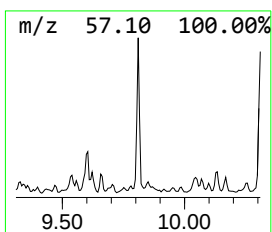
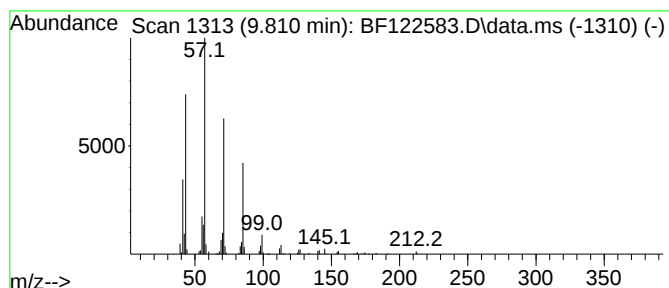
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Heptacosane Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.810 | 4.97 ng | 404998 | Acenaphthene-d10 | 9.875 |

| Hit# | of 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|------|--------------------------------|-----|---------|-------------|------|
| 1    |      | Heptacosane                    | 380 | C27H56  | 000593-49-7 | 83   |
| 2    |      | Pentadecane                    | 212 | C15H32  | 000629-62-9 | 83   |
| 3    |      | Tetradecane                    | 198 | C14H30  | 000629-59-4 | 80   |
| 4    |      | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7 | 78   |
| 5    |      | Hexadecane                     | 226 | C16H34  | 000544-76-3 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

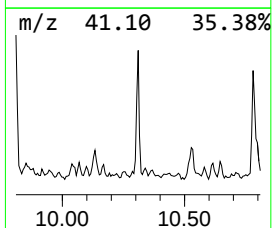
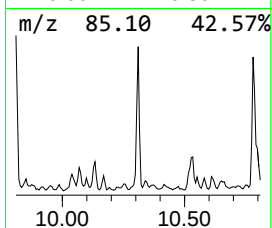
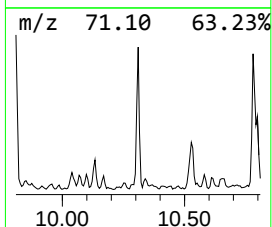
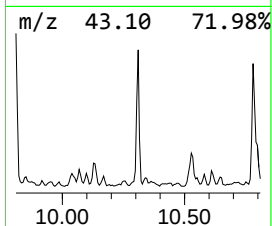
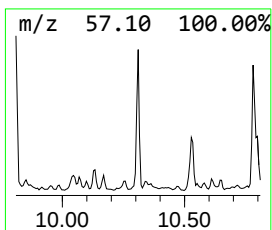
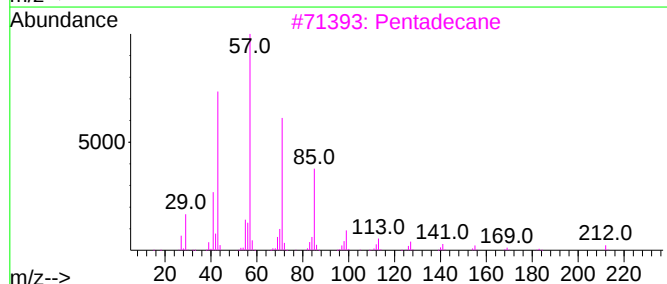
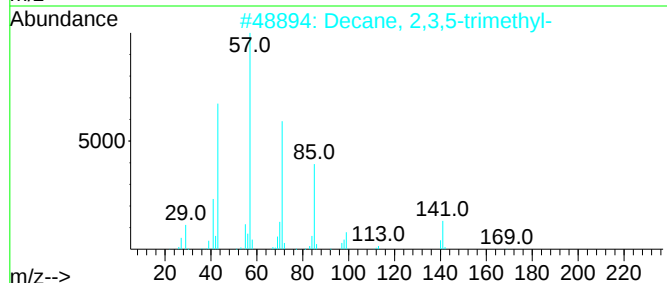
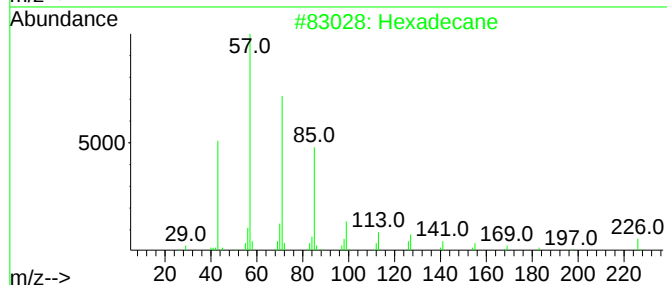
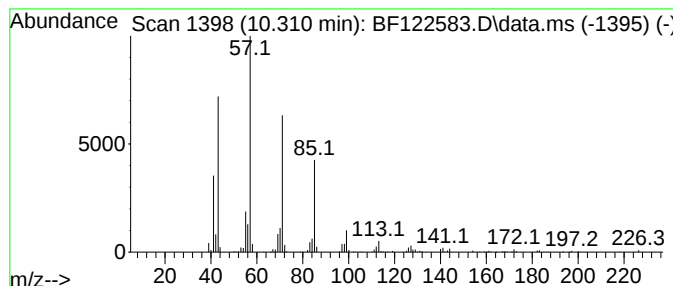
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Hexadecane Concentration Rank 15

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.310 | 4.48 ng | 364948 | Acenaphthene-d10 | 9.875 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexadecane               | 226 | C16H34  | 000544-76-3 | 95   |
| 2    |    |   | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 90   |
| 3    |    |   | Pentadecane              | 212 | C15H32  | 000629-62-9 | 90   |
| 4    |    |   | Pentadecane, 7-methyl-   | 226 | C16H34  | 006165-40-8 | 87   |
| 5    |    |   | Octadecane               | 254 | C18H38  | 000593-45-3 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

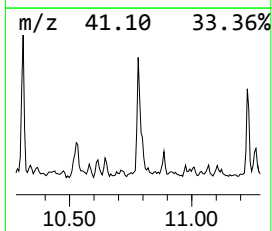
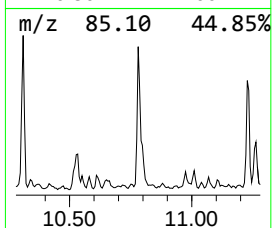
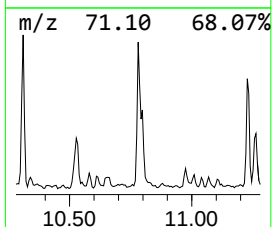
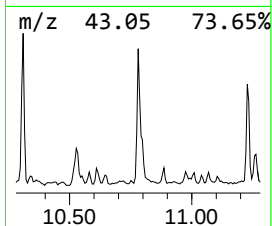
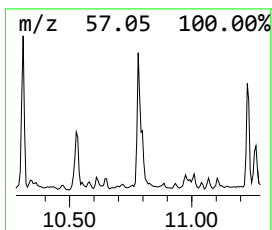
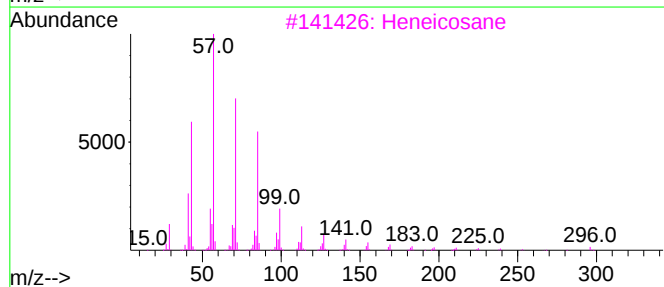
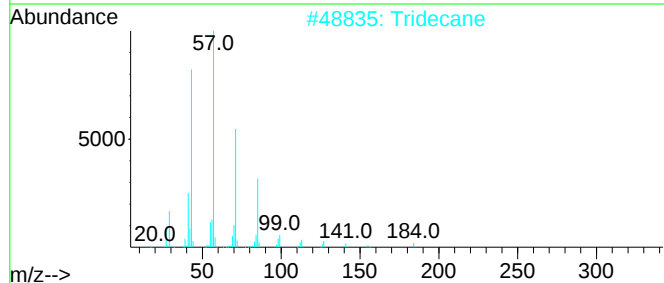
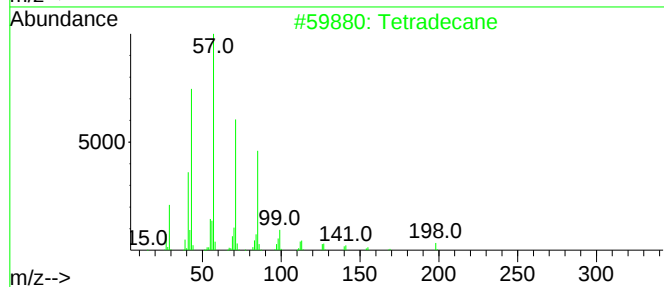
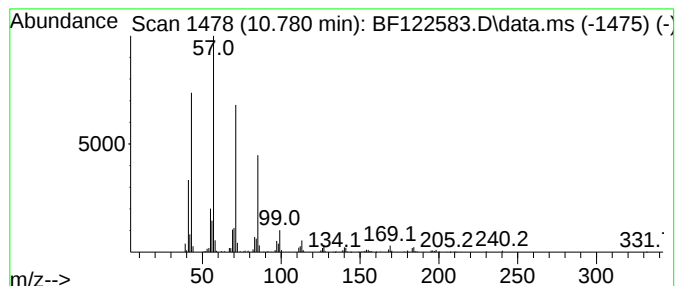
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Heneicosane Concentration Rank 8

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 10.780 | 7.97 ng | 555690 | Phenanthrene-d10 | 11.363 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Tetradecane                    | 198 | C14H30  | 000629-59-4 | 95   |
| 2    |    |   | Tridecane                      | 184 | C13H28  | 000629-50-5 | 94   |
| 3    |    |   | Heneicosane                    | 296 | C21H44  | 000629-94-7 | 91   |
| 4    |    |   | Heptadecane                    | 240 | C17H36  | 000629-78-7 | 90   |
| 5    |    |   | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36  | 014905-56-7 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

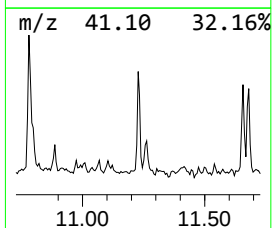
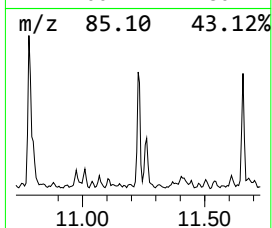
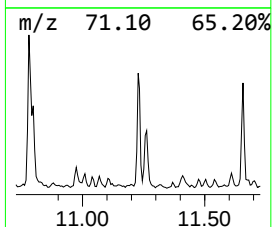
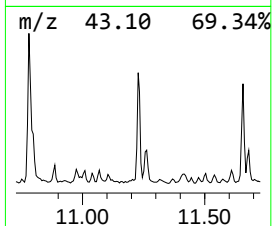
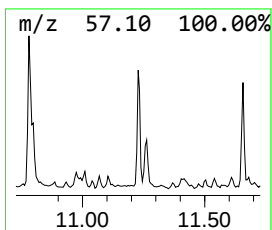
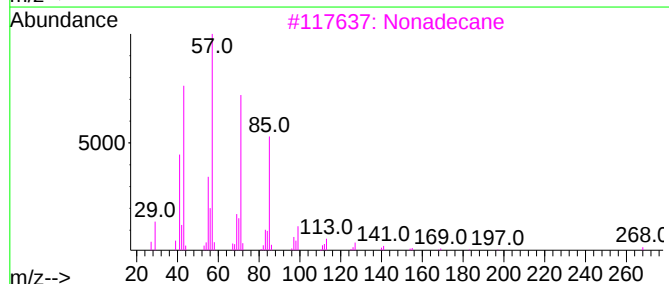
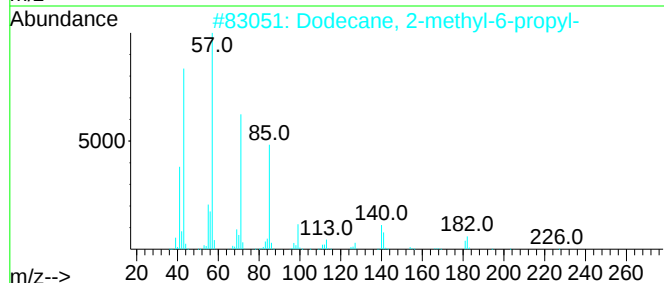
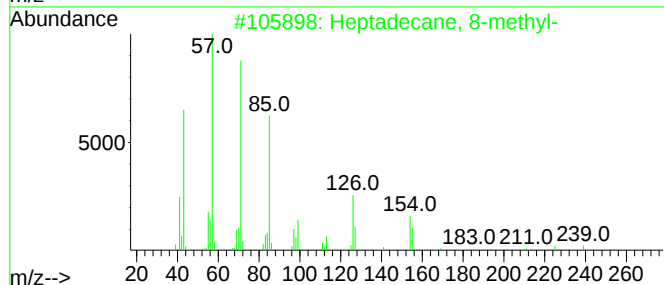
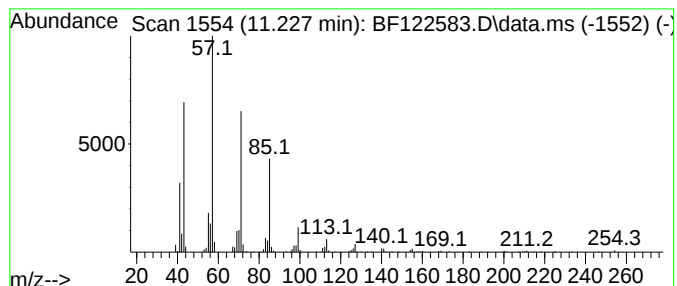
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Heptadecane, 8-methyl- Concentration Rank 19

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.227 | 3.77 ng | 263045 | Phenanthrene-d10 | 11.363 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|------|-------------------------------------|-----|-----------|--------------|------|
| 1    |      | Heptadecane, 8-methyl-              | 254 | C18H38    | 013287-23-5  | 87   |
| 2    |      | Dodecane, 2-methyl-6-propyl-        | 226 | C16H34    | 055045-08-4  | 86   |
| 3    |      | Nonadecane                          | 268 | C19H40    | 000629-92-5  | 86   |
| 4    |      | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 80   |
| 5    |      | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

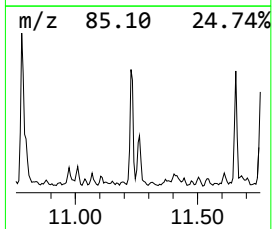
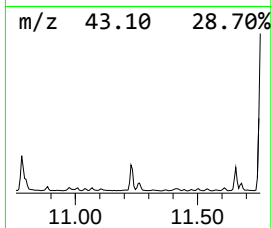
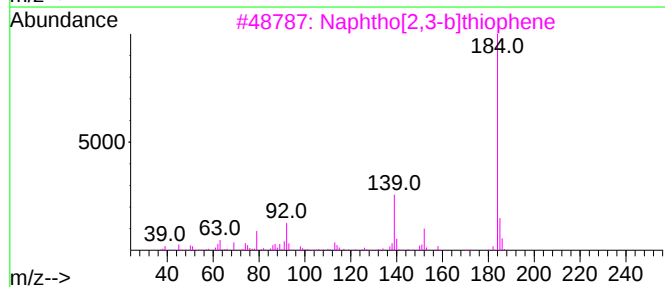
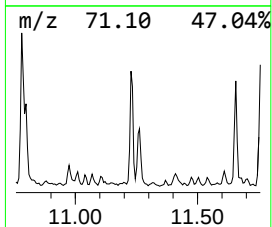
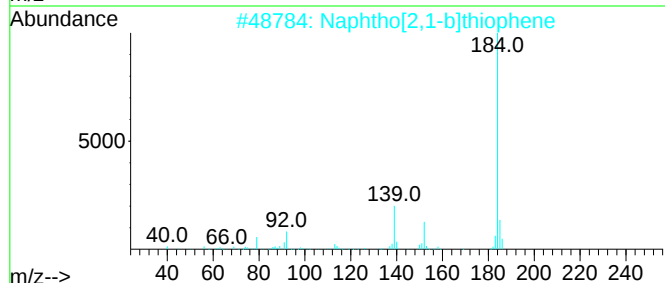
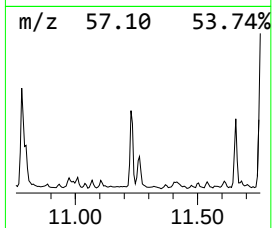
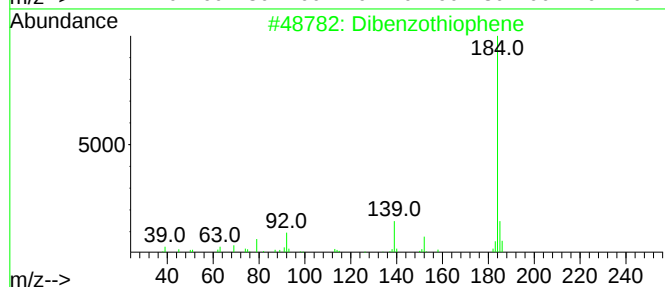
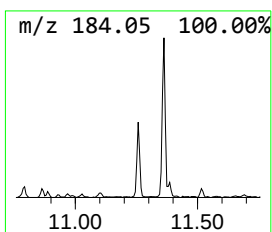
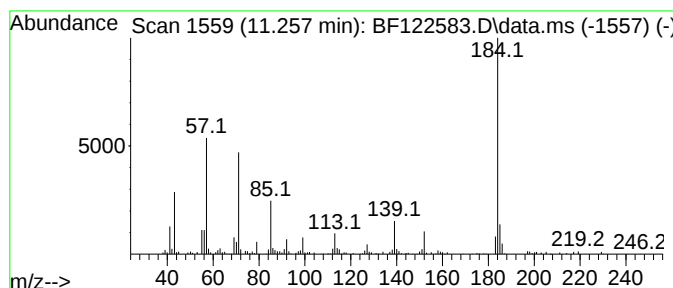
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Dibenzothiophene Concentration Rank 17

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.257 | 4.15 ng | 289226 | Phenanthrene-d10 | 11.363 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 91   |
| 2    |    |   | Naphtho[2,1-b]thiophene | 184 | C12H8S  | 000233-02-3 | 78   |
| 3    |    |   | Naphtho[2,3-b]thiophene | 184 | C12H8S  | 000268-77-9 | 60   |
| 4    |    |   | Azuleno(2,1-b)thiophene | 184 | C12H8S  | 000248-13-5 | 53   |
| 5    |    |   | Naphtho[1,2-b]thiophene | 184 | C12H8S  | 000234-41-3 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

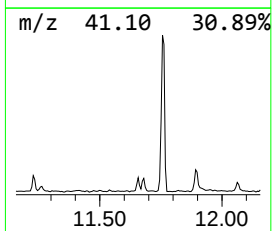
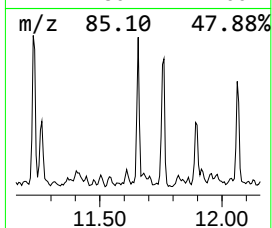
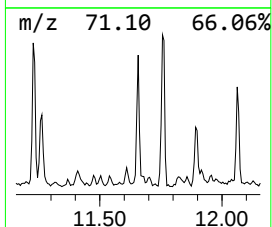
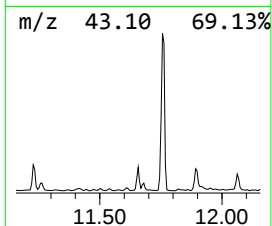
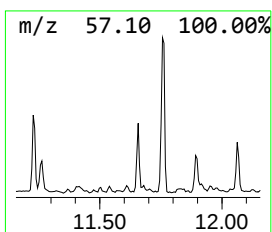
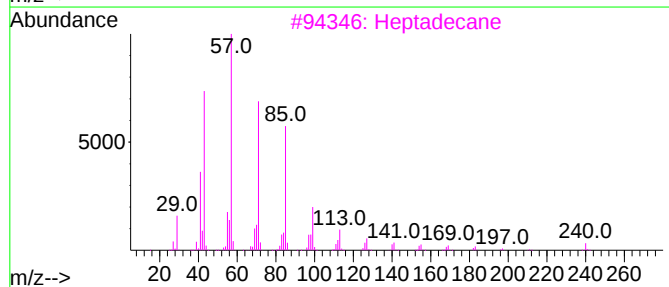
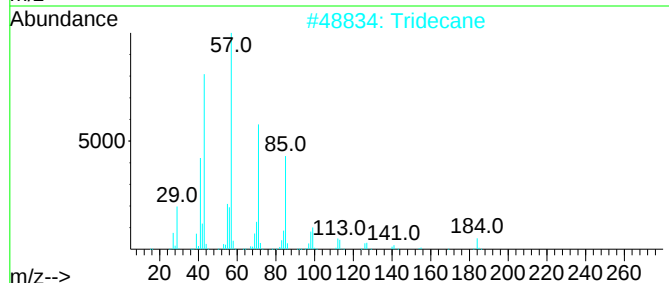
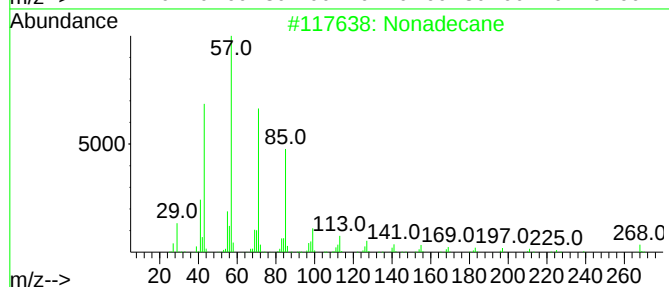
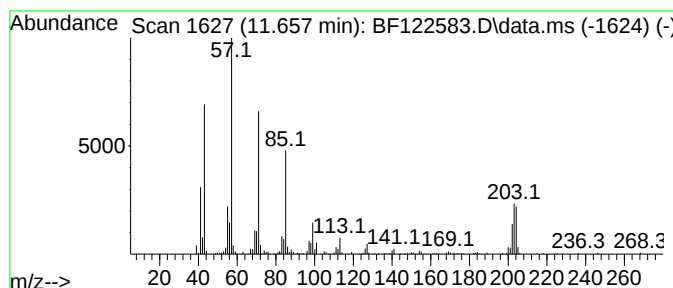
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Nonadecane Concentration Rank 18

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.657 | 4.15 ng | 289068 | Phenanthrene-d10 | 11.363 |

| Hit# of 5 | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|-----------|---------------------|-----|---------|-------------|------|
| 1         | Nonadecane          | 268 | C19H40  | 000629-92-5 | 83   |
| 2         | Tridecane           | 184 | C13H28  | 000629-50-5 | 58   |
| 3         | Heptadecane         | 240 | C17H36  | 000629-78-7 | 58   |
| 4         | Tetradecane         | 198 | C14H30  | 000629-59-4 | 52   |
| 5         | Undecane, 2-methyl- | 170 | C12H26  | 007045-71-8 | 52   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

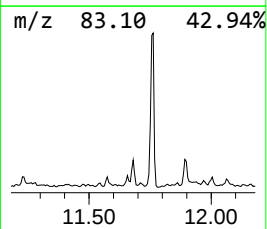
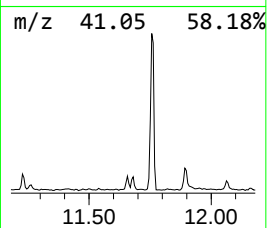
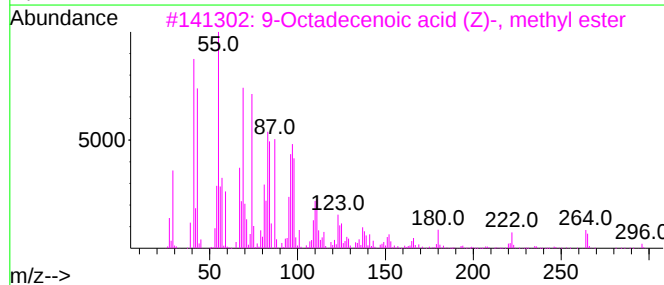
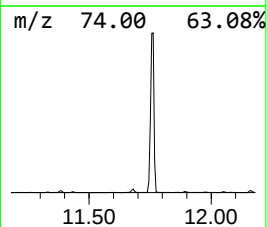
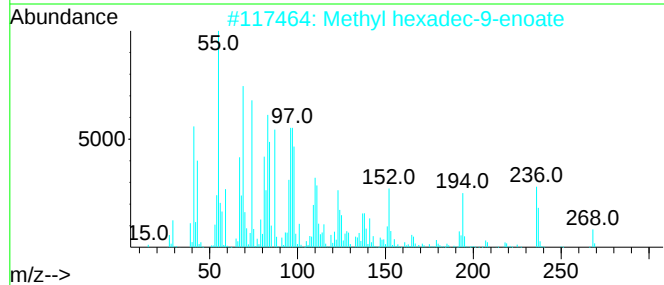
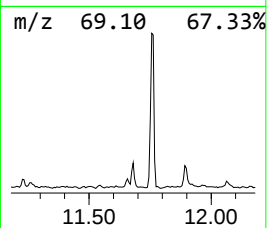
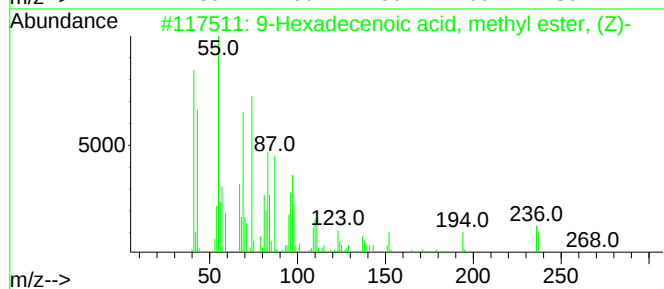
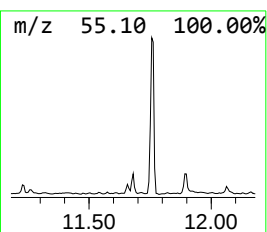
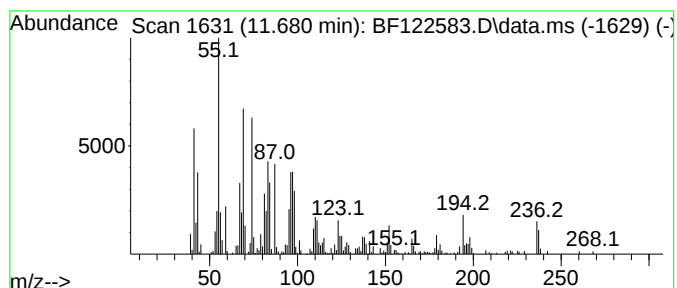
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 9-Hexadecenoic acid, methyl... Concentration Rank 10

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.680 | 6.01 ng | 418611 | Phenanthrene-d10 | 11.363 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 9-Hexadecenoic acid, methyl este... | 268 | C17H32O2 | 001120-25-8  | 99   |
| 2    |    |   | Methyl hexadec-9-enoate             | 268 | C17H32O2 | 010030-74-7  | 91   |
| 3    |    |   | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9  | 91   |
| 4    |    |   | Methyl 11-hexadecenoate             | 268 | C17H32O2 | 1000336-35-5 | 91   |
| 5    |    |   | 14-Methylpentadec-9-enoic acid m... | 268 | C17H32O2 | 1000365-89-7 | 91   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

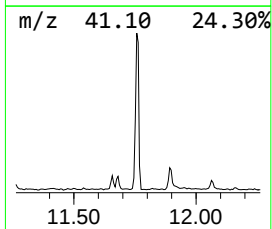
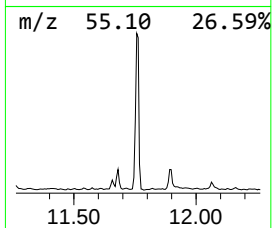
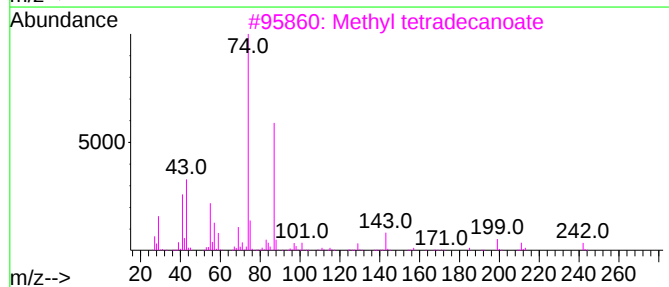
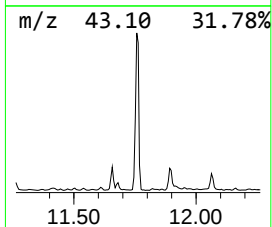
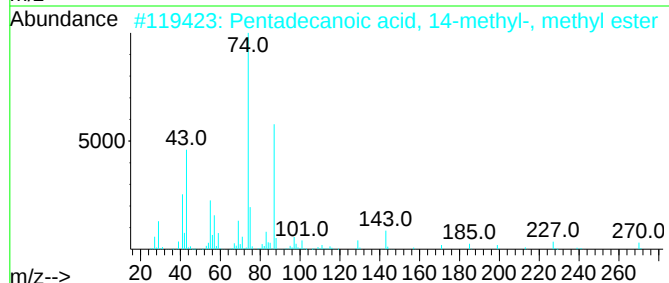
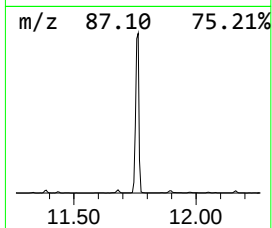
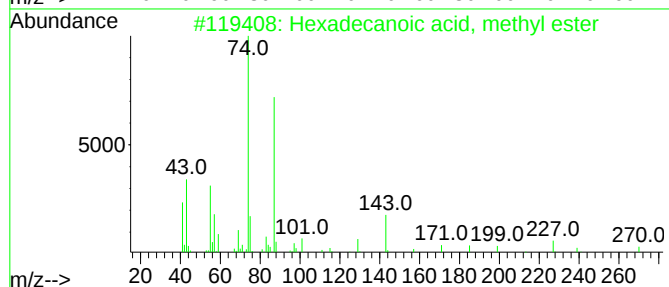
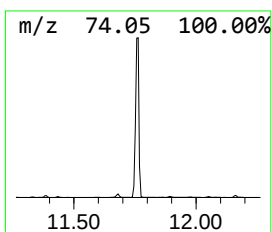
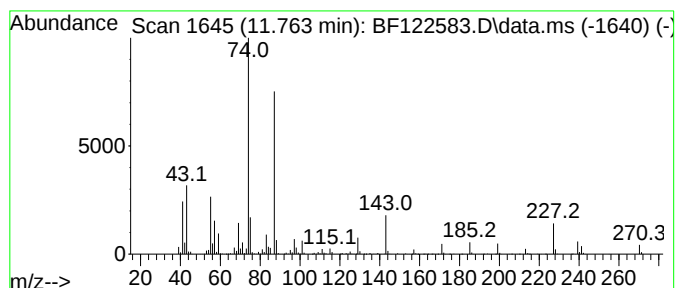
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Peak Number 11 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 11.763 | 64.36 ng | 4485950 | Phenanthrene-d10 | 11.363 |

| 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 | 95   |
| 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 | 80   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

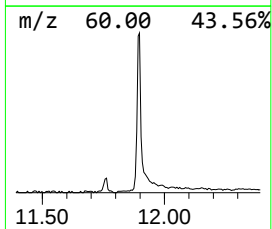
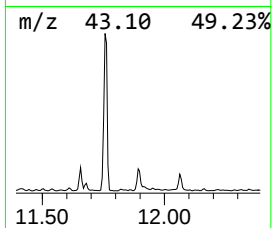
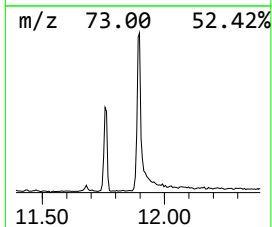
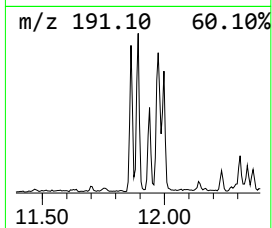
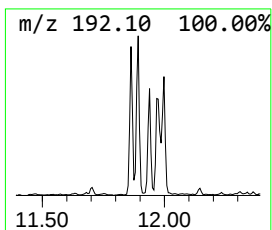
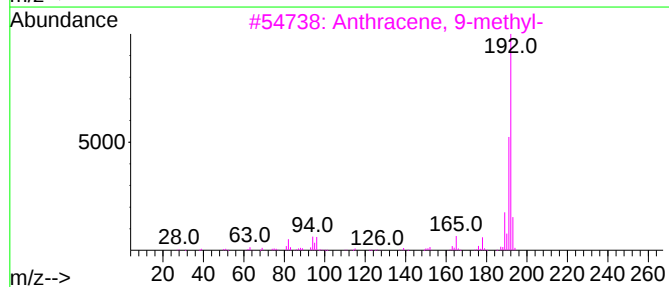
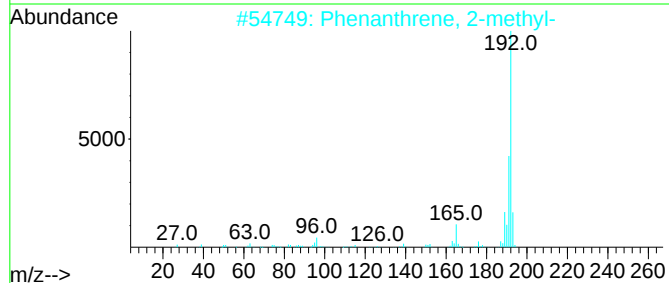
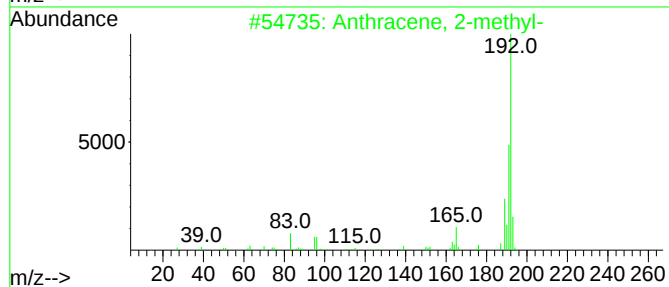
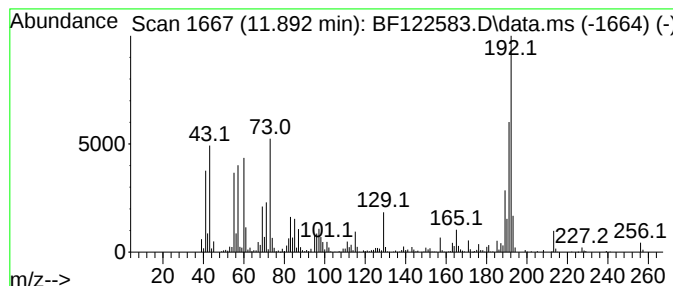
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 Anthracene, 2-methyl- Concentration Rank 5

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.892 | 11.97 ng | 834572 | Phenanthrene-d10 | 11.363 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 95   |
| 2    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 95   |
| 3    |    |   | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 92   |
| 4    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 92   |
| 5    |    |   | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

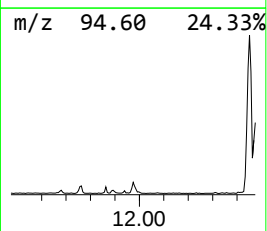
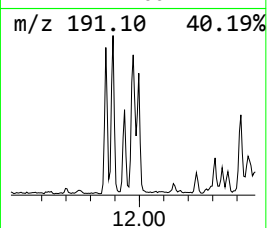
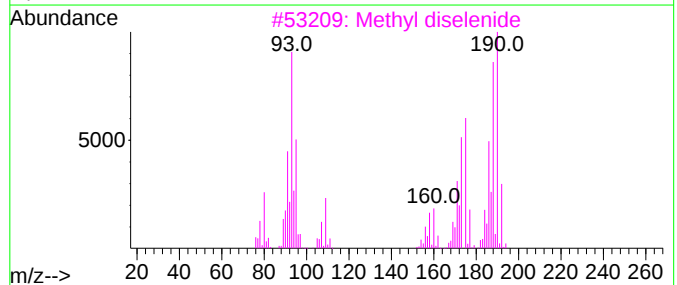
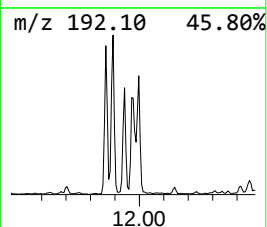
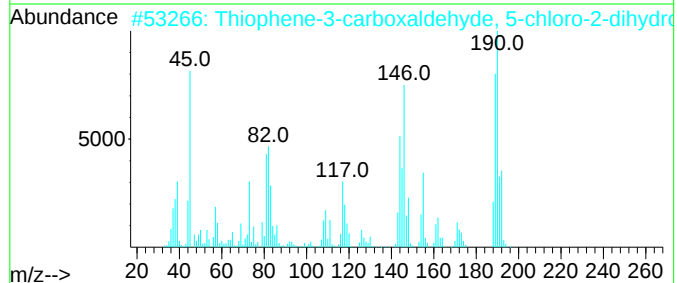
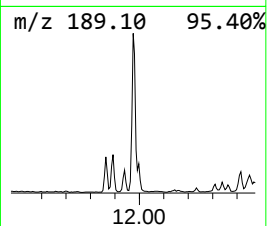
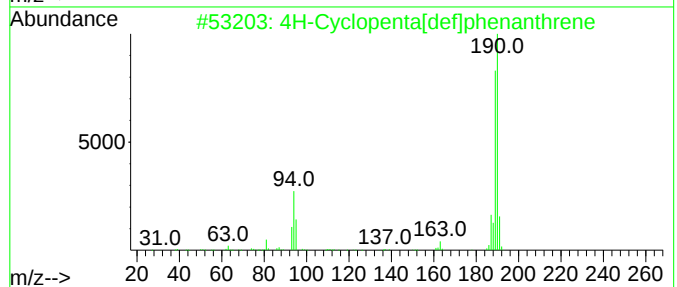
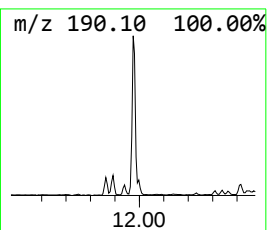
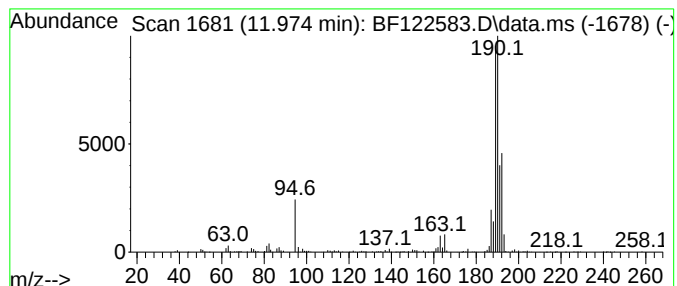
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD |            |              | R.T.   |
|-----------|-------------------------------------|--------|------------------|------------|--------------|--------|
| 11.974    | 8.74 ng                             | 609071 | Phenanthrene-d10 |            |              | 11.363 |
| Hit# of 5 | Tentative ID                        |        | MW               | MolForm    | CAS#         | Qual   |
| 1         | 4H-Cyclopenta[def]phenanthrene      |        | 190              | C15H10     | 000203-64-5  | 93     |
| 2         | Thiophene-3-carboxaldehyde, 5-ch... |        | 190              | C5H4BClO3S | 036155-87-0  | 53     |
| 3         | Methyl diselenide                   |        | 190              | C2H6Se2    | 007101-31-7  | 45     |
| 4         | 6H-Cyclobuta[jk]phenanthrene        |        | 190              | C15H10     | 083469-43-6  | 42     |
| 5         | Carbonic acid, ethyl 2-formyl-4,... |        | 262              | C10H8Cl2O4 | 1000331-34-4 | 40     |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

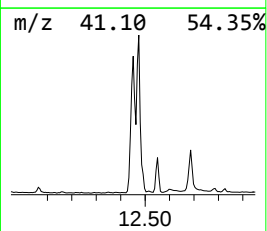
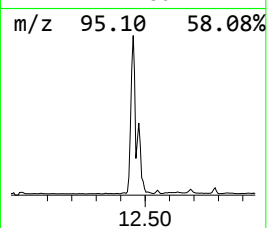
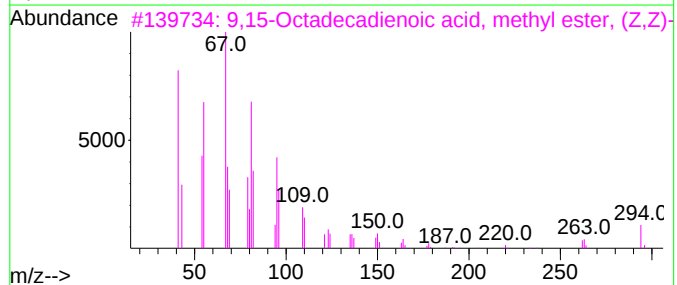
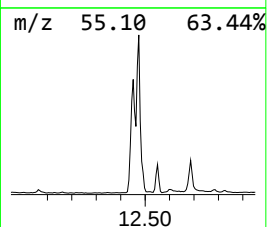
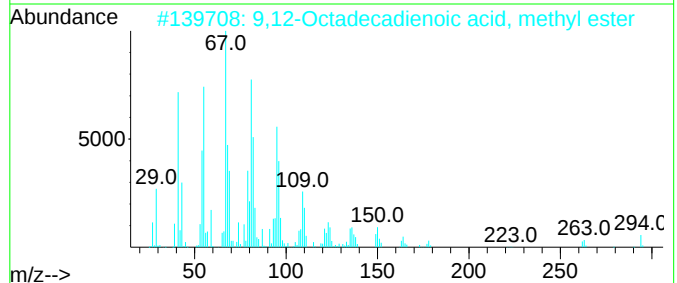
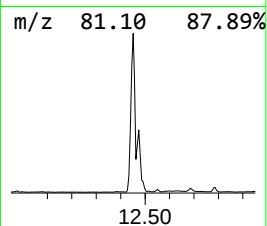
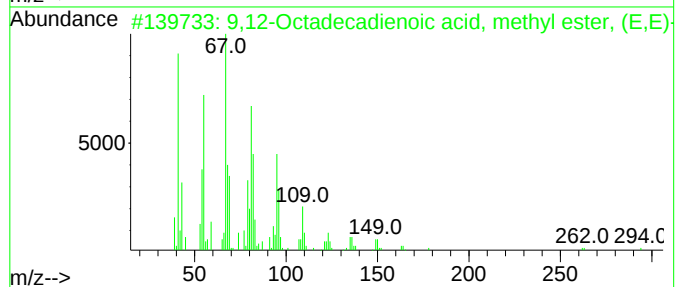
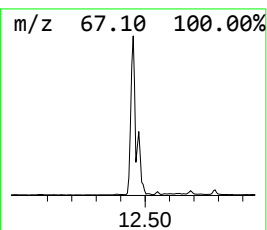
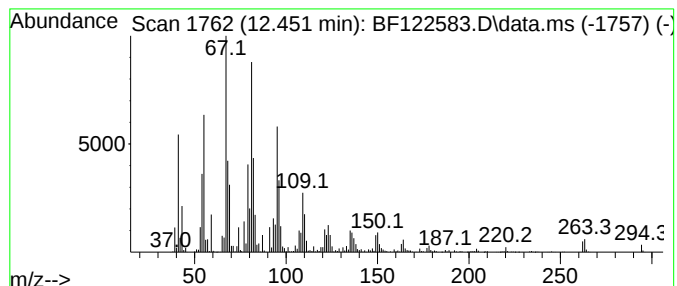
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 9,12-Octadecadienoic acid, ... Concentration Rank 1

| R.T.   | EstConc   | Area    | Relative to ISTD | R.T.   |
|--------|-----------|---------|------------------|--------|
| 12.451 | 130.81 ng | 9117930 | Phenanthrene-d10 | 11.363 |

| Hit# | of                                  | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2     | 002566-97-4  | 99      |      |      |
| 2    | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2     | 002462-85-3  | 99      |      |      |
| 3    | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2     | 017309-05-6  | 99      |      |      |
| 4    | Methyl 10-trans,12-cis-octadecad... | 294 | C19H34O2     | 1000336-44-2 | 98      |      |      |
| 5    | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2     | 000112-63-0  | 98      |      |      |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

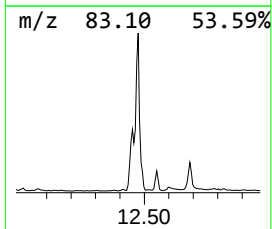
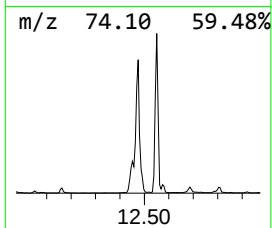
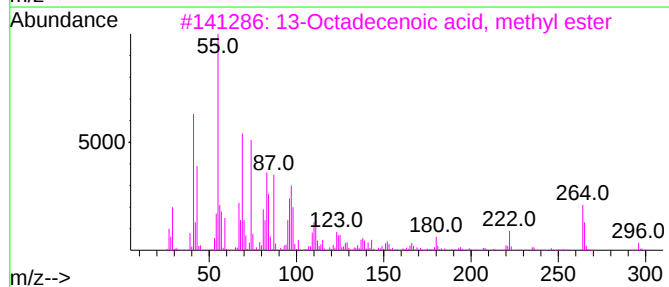
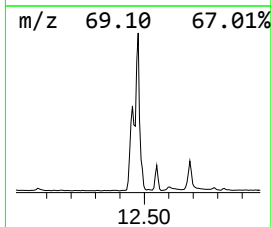
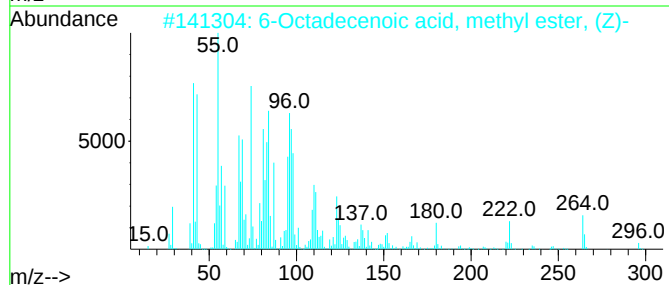
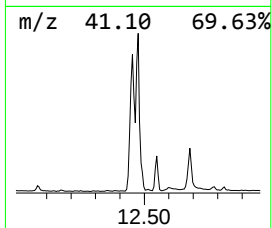
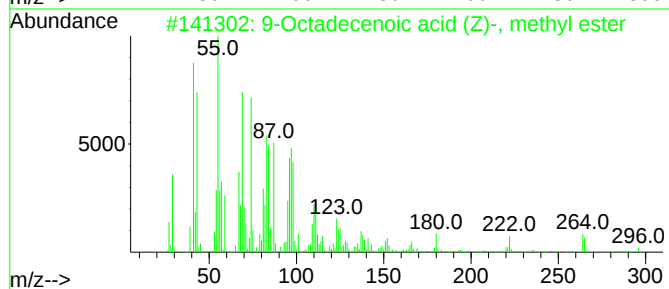
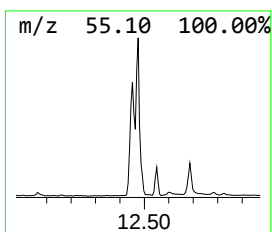
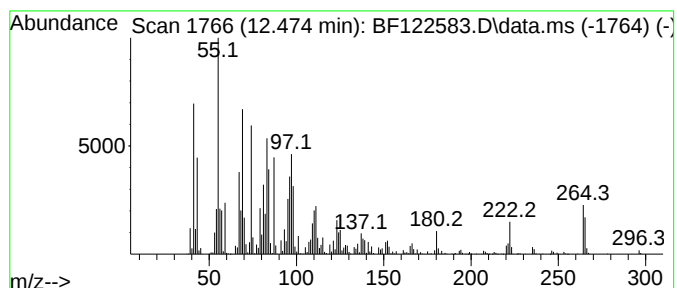
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 15 9-Octadecenoic acid (Z)-, m... Concentration Rank 2

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|---------|------------------|-------------|------|
| 12.474    | 108.33 ng                           | 7551100 | Phenanthrene-d10 | 11.363      |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#        | Qual |
| 1         | 9-Octadecenoic acid (Z)-, methyl... | 296     | C19H36O2         | 000112-62-9 | 99   |
| 2         | 6-Octadecenoic acid, methyl este... | 296     | C19H36O2         | 002777-58-4 | 99   |
| 3         | 13-Octadecenoic acid, methyl ester  | 296     | C19H36O2         | 056554-47-3 | 99   |
| 4         | 16-Octadecenoic acid, methyl ester  | 296     | C19H36O2         | 056554-49-5 | 99   |
| 5         | 14-Octadecenoic acid, methyl ester  | 296     | C19H36O2         | 056554-48-4 | 99   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

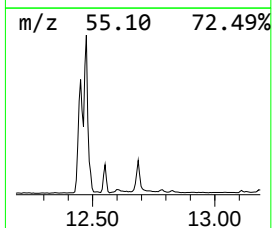
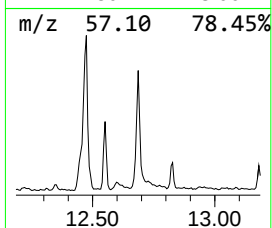
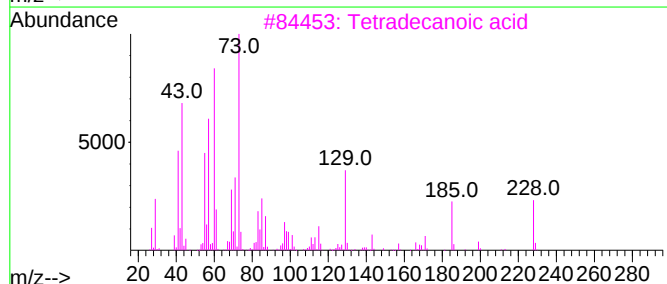
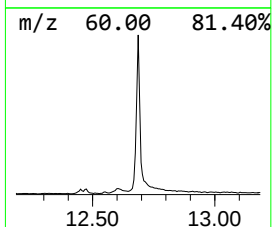
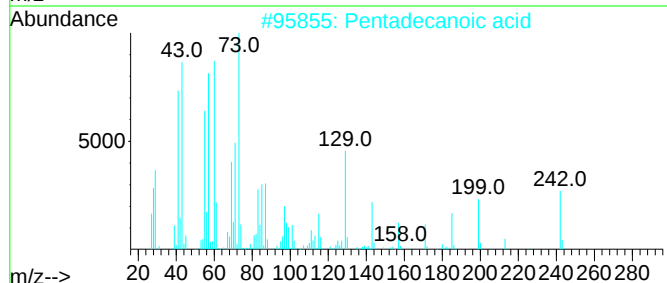
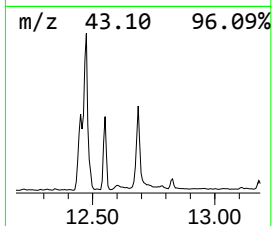
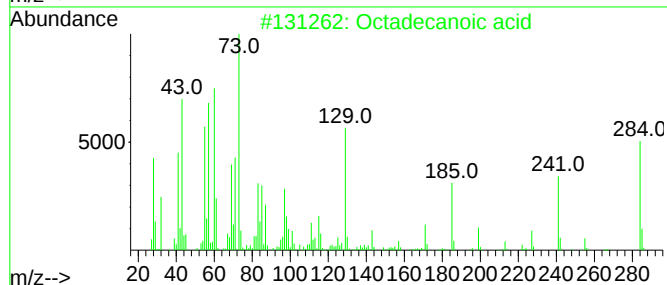
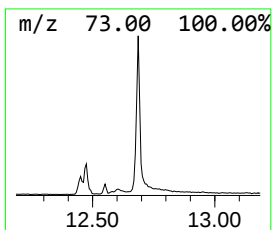
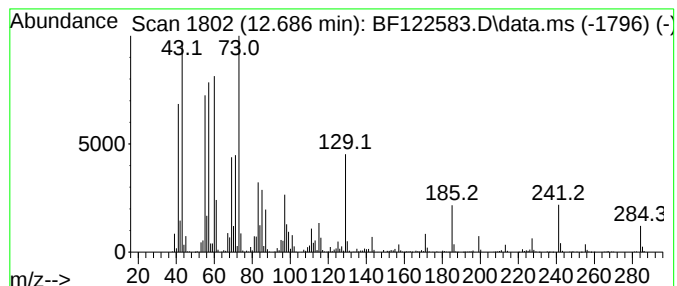
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 16 Octadecanoic acid Concentration Rank 4

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.   |
|--------|----------|---------|------------------|--------|
| 12.686 | 15.69 ng | 2069220 | Chrysene-d12     | 14.004 |

| 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 | 90   |
| 3    |    |   | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 87   |
| 4    |    |   | n-Decanoic acid    | 172 | C10H20O2 | 000334-48-5 | 70   |
| 5    |    |   | Tridecanoic acid   | 214 | C13H26O2 | 000638-53-9 | 68   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

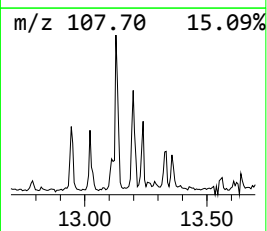
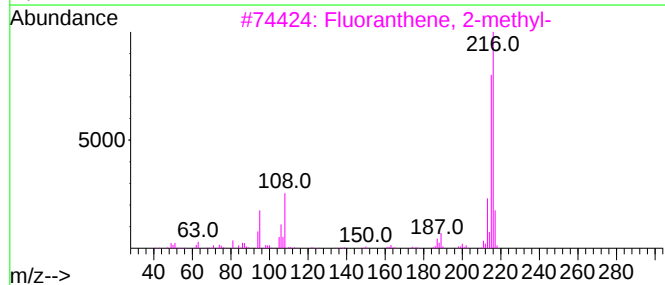
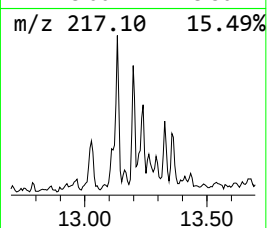
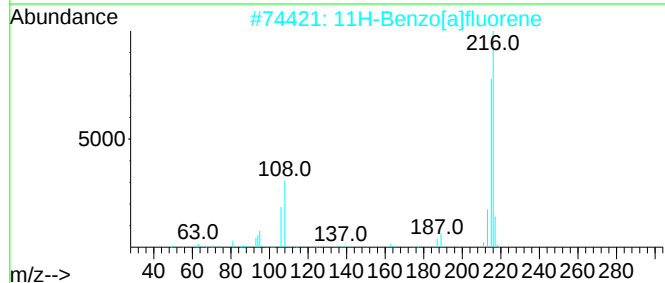
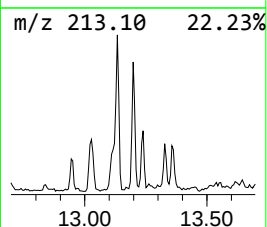
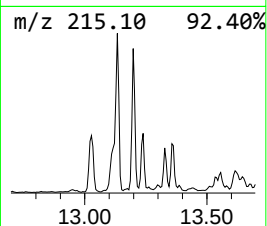
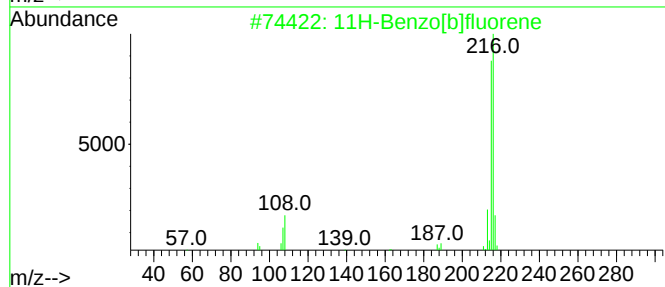
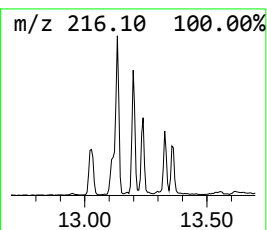
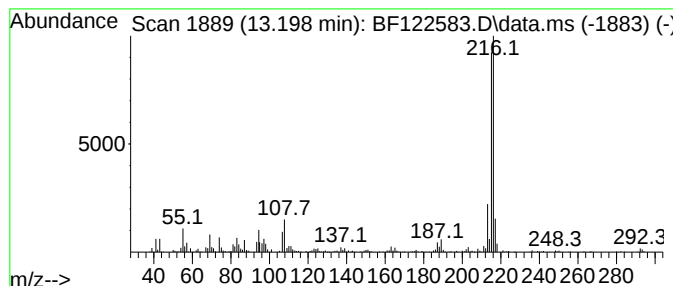
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 13

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 13.198 | 4.82 ng | 636311 | Chrysene-d12     | 14.004 |

| 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 | 87   |
| 3    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 74   |
| 4    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 68   |
| 5    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 64   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

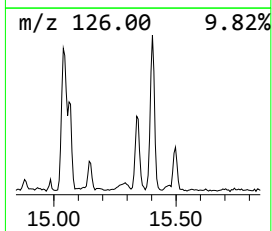
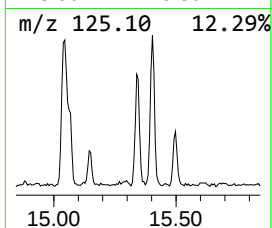
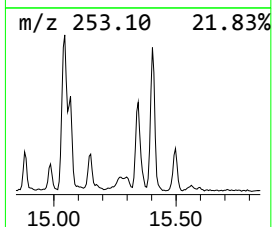
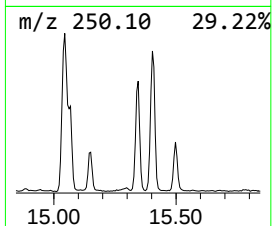
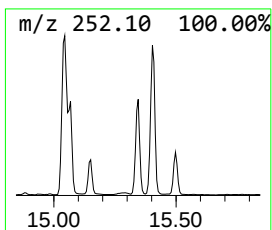
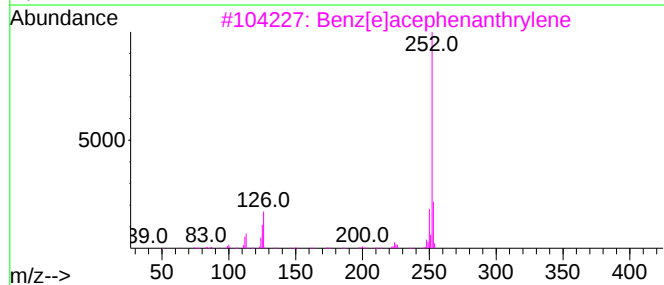
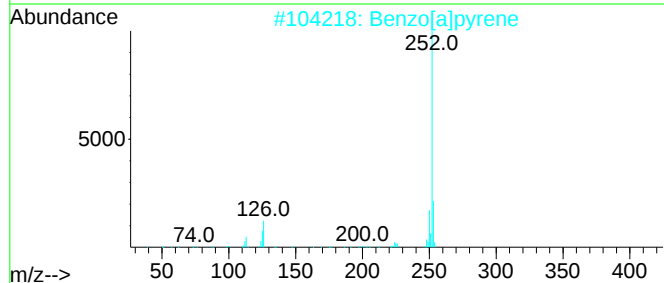
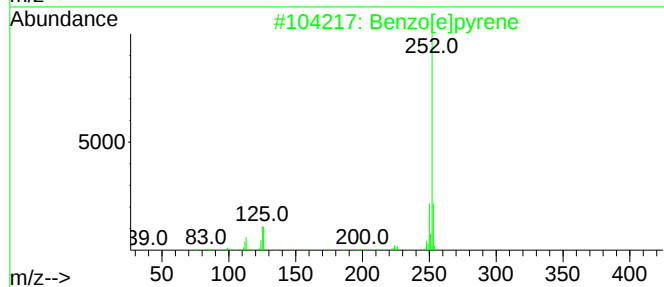
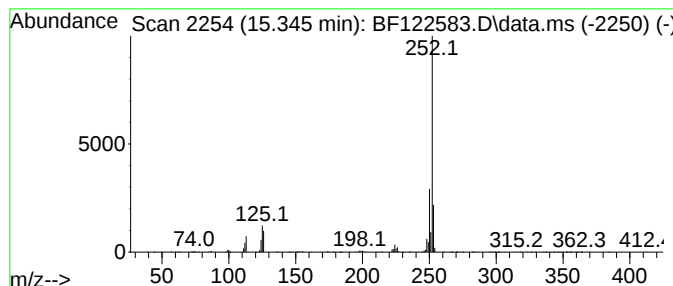
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 19 Benzo[e]pyrene Concentration Rank 6

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 15.345 | 11.82 ng | 834394 | Perylene-d12     | 15.468 |

| Hit# | of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    |   | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 96   |
| 3    |    |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 95   |
| 4    |    |   | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 95   |
| 5    |    |   | Benzo[j]fluoranthene     | 252 | C20H12  | 000205-82-3 | 94   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
Data File : BF122583.D  
Acq On : 7 Dec 2020 21:03  
Operator : JU/CG  
Sample : L4950-01 2X  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
PL-02-120420

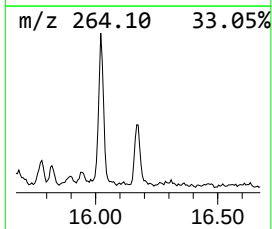
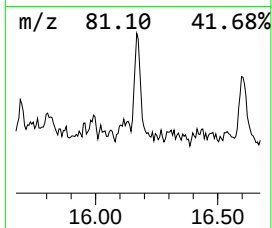
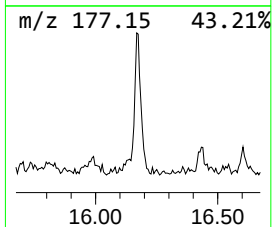
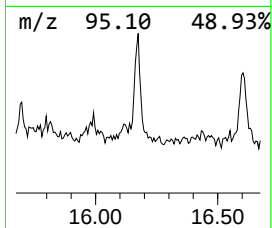
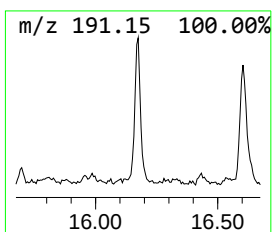
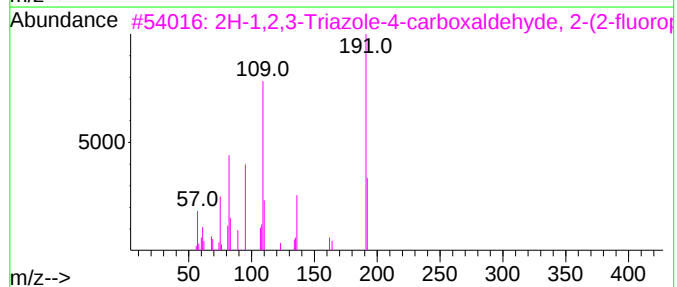
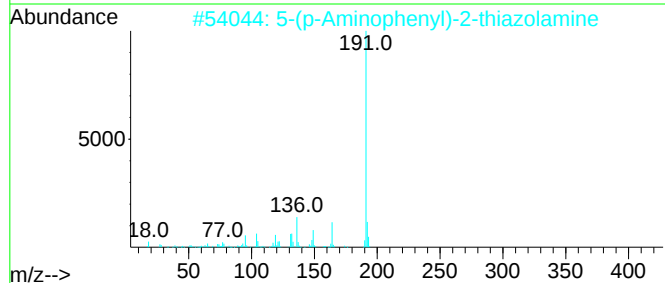
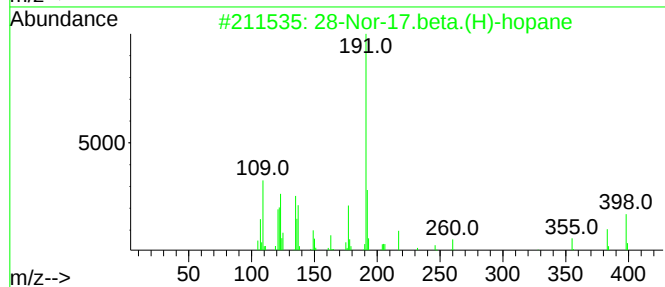
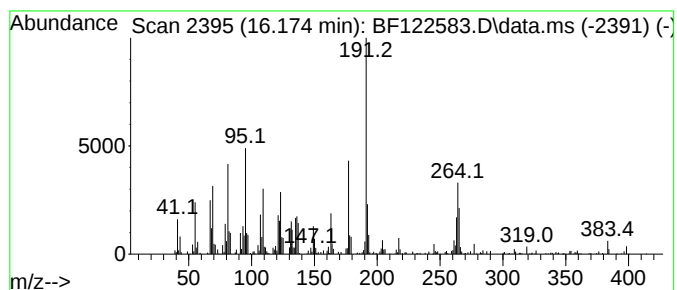
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 20 unknown16.174 Concentration Rank 9

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 16.174 | 6.83 ng | 481895 | Perylene-d12     | 15.468 |

| Hit# | of                                  | 5 | Tentative ID | MW       | MolForm | CAS#         | Qual |
|------|-------------------------------------|---|--------------|----------|---------|--------------|------|
| 1    | 28-Nor-17.beta.(H)-hopane           |   | 398          | C29H50   |         | 036728-72-0  | 30   |
| 2    | 5-(p-Aminophenyl)-2-thiazolamine    |   | 191          | C9H9N3S  |         | 090349-87-4  | 22   |
| 3    | 2H-1,2,3-Triazole-4-carboxaldehy... |   | 191          | C9H6FN3O |         | 051306-43-5  | 16   |
| 4    | Anthracene, 9-dodecyltetradecahy... |   | 360          | C26H48   |         | 055401-75-7  | 16   |
| 5    | 5-(7a-Isopropenyl-4,5-dimethyl-o... |   | 290          | C20H34O  |         | 1000193-54-0 | 15   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF120720\  
 Data File : BF122583.D  
 Acq On : 7 Dec 2020 21:03  
 Operator : JU/CG  
 Sample : L4950-01 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PL-02-120420

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.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 |
| Tridecane          | 8.716  | 4.2     | ng    | 384434   | 2                     | 8.122  | 1843990 | 20.0 |
| Tetradecane        | 9.280  | 5.8     | ng    | 473059   | 3                     | 9.875  | 1630710 | 20.0 |
| unknown9.598       | 9.598  | 4.8     | ng    | 391112   | 3                     | 9.875  | 1630710 | 20.0 |
| Heptacosane        | 9.810  | 5.0     | ng    | 404998   | 3                     | 9.875  | 1630710 | 20.0 |
| Hexadecane         | 10.310 | 4.5     | ng    | 364948   | 3                     | 9.875  | 1630710 | 20.0 |
| Heneicosane        | 10.780 | 8.0     | ng    | 555690   | 4                     | 11.363 | 1394040 | 20.0 |
| Heptadecane, 8-... | 11.227 | 3.8     | ng    | 263045   | 4                     | 11.363 | 1394040 | 20.0 |
| Dibenzothiophene   | 11.257 | 4.2     | ng    | 289226   | 4                     | 11.363 | 1394040 | 20.0 |
| Nonadecane         | 11.657 | 4.2     | ng    | 289068   | 4                     | 11.363 | 1394040 | 20.0 |
| 9-Hexadecenoic ... | 11.680 | 6.0     | ng    | 418611   | 4                     | 11.363 | 1394040 | 20.0 |
| Hexadecanoic ac... | 11.763 | 64.4    | ng    | 4485950  | 4                     | 11.363 | 1394040 | 20.0 |
| Anthracene, 2-m... | 11.892 | 12.0    | ng    | 834572   | 4                     | 11.363 | 1394040 | 20.0 |
| 4H-Cyclopenta[d... | 11.974 | 8.7     | ng    | 609071   | 4                     | 11.363 | 1394040 | 20.0 |
| 9,12-Octadecadi... | 12.451 | 130.8   | ng    | 9117930  | 4                     | 11.363 | 1394040 | 20.0 |
| 9-Octadecenoic ... | 12.474 | 108.3   | ng    | 7551100  | 4                     | 11.363 | 1394040 | 20.0 |
| Octadecanoic acid  | 12.686 | 15.7    | ng    | 2069220  | 5                     | 14.004 | 2637620 | 20.0 |
| 11H-Benzo[b]flu... | 13.198 | 4.8     | ng    | 636311   | 5                     | 14.004 | 2637620 | 20.0 |
| Benzo[e]pyrene     | 15.345 | 11.8    | ng    | 834394   | 6                     | 15.468 | 1411760 | 20.0 |
| unknown16.174      | 16.174 | 6.8     | ng    | 481895   | 6                     | 15.468 | 1411760 | 20.0 |