

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
 Data File : BF113046.D  
 Acq On : 13 Mar 2019 23:40  
 Operator : JU/SJ  
 Sample : K1693-05 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-031219-A

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-BF022719.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF113045.D

| 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         | 5.334       | 548           | 552         | 573          | rVB      | 844892         | 843368        | 10.39%          | 1.378%        |
| 2         | 6.363       | 723           | 727         | 742          | rBV      | 1072383        | 982985        | 12.10%          | 1.606%        |
| 3         | 6.492       | 746           | 749         | 756          | rVV      | 1101472        | 957858        | 11.80%          | 1.565%        |
| 4         | 6.728       | 785           | 789         | 792          | rBV      | 1095667        | 943918        | 11.62%          | 1.542%        |
| 5         | 6.881       | 812           | 815         | 819          | rBV      | 925163         | 737820        | 9.09%           | 1.206%        |
| 6         | 7.281       | 878           | 883         | 890          | rBV      | 604442         | 605762        | 7.46%           | 0.990%        |
| 7         | 8.010       | 1003          | 1007        | 1010         | rBV      | 1730984        | 1465261       | 18.04%          | 2.394%        |
| 8         | 8.610       | 1105          | 1109        | 1113         | rBV      | 196093         | 186532        | 2.30%           | 0.305%        |
| 9         | 8.722       | 1123          | 1128        | 1132         | rVB2     | 97191          | 117322        | 1.44%           | 0.192%        |
| 10        | 8.822       | 1141          | 1145        | 1149         | rBV2     | 101238         | 148104        | 1.82%           | 0.242%        |
| 11        | 9.080       | 1186          | 1189        | 1195         | rBV      | 1690046        | 1393691       | 17.16%          | 2.277%        |
| 12        | 9.175       | 1202          | 1205        | 1211         | rBV2     | 264197         | 228626        | 2.82%           | 0.374%        |
| 13        | 9.351       | 1229          | 1235        | 1239         | rBV4     | 66520          | 122472        | 1.51%           | 0.200%        |
| 14        | 9.422       | 1241          | 1247        | 1249         | rBV      | 121611         | 156602        | 1.93%           | 0.256%        |
| 15        | 9.475       | 1254          | 1256        | 1258         | rBV      | 142590         | 139610        | 1.72%           | 0.228%        |
| 16        | 9.704       | 1292          | 1295        | 1298         | rBV      | 292741         | 226230        | 2.79%           | 0.370%        |
| 17        | 9.757       | 1298          | 1304        | 1307         | rBV2     | 2095709        | 1870541       | 23.03%          | 3.056%        |
| 18        | 9.786       | 1307          | 1309        | 1313         | rVB      | 371467         | 336626        | 4.15%           | 0.550%        |
| 19        | 9.963       | 1336          | 1339        | 1342         | rVB      | 214919         | 188621        | 2.32%           | 0.308%        |
| 20        | 10.198      | 1376          | 1379        | 1383         | rVB      | 303479         | 242409        | 2.99%           | 0.396%        |
| 21        | 10.304      | 1393          | 1397        | 1403         | rBV      | 411578         | 403760        | 4.97%           | 0.660%        |
| 22        | 10.369      | 1403          | 1408        | 1409         | rVV2     | 80095          | 89079         | 1.10%           | 0.146%        |
| 23        | 10.422      | 1413          | 1417        | 1421         | rVV3     | 137423         | 205191        | 2.53%           | 0.335%        |
| 24        | 10.463      | 1421          | 1424        | 1428         | rVB2     | 96494          | 119020        | 1.47%           | 0.194%        |
| 25        | 10.539      | 1433          | 1437        | 1442         | rBV      | 1101880        | 1011592       | 12.46%          | 1.653%        |
| 26        | 10.669      | 1456          | 1459        | 1467         | rVB      | 343377         | 380603        | 4.69%           | 0.622%        |
| 27        | 10.851      | 1486          | 1490        | 1492         | rBV2     | 79143          | 95115         | 1.17%           | 0.155%        |
| 28        | 11.086      | 1527          | 1530        | 1533         | rBV2     | 67458          | 84096         | 1.04%           | 0.137%        |
| 29        | 11.116      | 1533          | 1535        | 1539         | rVV2     | 330528         | 402389        | 4.96%           | 0.657%        |
| 30        | 11.145      | 1539          | 1540        | 1544         | rVB      | 135869         | 117383        | 1.45%           | 0.192%        |
| 31        | 11.239      | 1552          | 1556        | 1558         | rBV      | 1824693        | 1902069       | 23.42%          | 3.108%        |
| 32        | 11.263      | 1558          | 1560        | 1563         | rVV      | 2382933        | 1794639       | 22.10%          | 2.932%        |
| 33        | 11.310      | 1563          | 1568        | 1571         | rVV      | 733409         | 663413        | 8.17%           | 1.084%        |
| 34        | 11.345      | 1571          | 1574        | 1578         | rVB2     | 78116          | 89931         | 1.11%           | 0.147%        |

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 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-031219-A

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-BF022719.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 11.463 | 1589 | 1594 | 1597 | rBV2 | 297943  | 293982  | 3.62%   | 0.480%  |
| 36 | 11.539 | 1603 | 1607 | 1609 | rBV2 | 250724  | 253436  | 3.12%   | 0.414%  |
| 37 | 11.563 | 1609 | 1611 | 1615 | rVB3 | 159894  | 129520  | 1.59%   | 0.212%  |
| 38 | 11.639 | 1621 | 1624 | 1628 | rVB  | 3347312 | 2858214 | 35.20%  | 4.670%  |
| 39 | 11.733 | 1637 | 1640 | 1643 | rBV  | 251906  | 256694  | 3.16%   | 0.419%  |
| 40 | 11.769 | 1643 | 1646 | 1650 | rVB2 | 463451  | 556386  | 6.85%   | 0.909%  |
| 41 | 11.810 | 1650 | 1653 | 1656 | rVB  | 187246  | 166393  | 2.05%   | 0.272%  |
| 42 | 11.845 | 1656 | 1659 | 1662 | rBV  | 630422  | 674839  | 8.31%   | 1.103%  |
| 43 | 11.945 | 1673 | 1676 | 1679 | rBV2 | 229412  | 216820  | 2.67%   | 0.354%  |
| 44 | 12.033 | 1688 | 1691 | 1693 | rBV  | 179438  | 187201  | 2.31%   | 0.306%  |
| 45 | 12.286 | 1730 | 1734 | 1736 | rBV  | 204233  | 212092  | 2.61%   | 0.347%  |
| 46 | 12.327 | 1736 | 1741 | 1743 | rVV  | 6672918 | 8120811 | 100.00% | 13.269% |
| 47 | 12.351 | 1743 | 1745 | 1755 | rVV2 | 6730929 | 6429183 | 79.17%  | 10.505% |
| 48 | 12.445 | 1755 | 1761 | 1765 | rVV2 | 2740930 | 3871667 | 47.68%  | 6.326%  |
| 49 | 12.480 | 1765 | 1767 | 1775 | rVB4 | 334619  | 474252  | 5.84%   | 0.775%  |
| 50 | 12.674 | 1794 | 1800 | 1802 | rBV  | 2381766 | 2709847 | 33.37%  | 4.428%  |
| 51 | 12.704 | 1802 | 1805 | 1807 | rVB3 | 156561  | 182332  | 2.25%   | 0.298%  |
| 52 | 12.792 | 1817 | 1820 | 1821 | rBV  | 185637  | 153682  | 1.89%   | 0.251%  |
| 53 | 12.816 | 1821 | 1824 | 1831 | rVB  | 1393038 | 1311347 | 16.15%  | 2.143%  |
| 54 | 12.892 | 1833 | 1837 | 1840 | rBV2 | 167045  | 248405  | 3.06%   | 0.406%  |
| 55 | 12.998 | 1849 | 1855 | 1858 | rVB2 | 540940  | 632209  | 7.79%   | 1.033%  |
| 56 | 13.063 | 1862 | 1866 | 1870 | rVV2 | 611011  | 654439  | 8.06%   | 1.069%  |
| 57 | 13.104 | 1870 | 1873 | 1875 | rVV2 | 290704  | 282685  | 3.48%   | 0.462%  |
| 58 | 13.151 | 1879 | 1881 | 1885 | rVB2 | 149023  | 138938  | 1.71%   | 0.227%  |
| 59 | 13.192 | 1885 | 1888 | 1891 | rBV  | 175653  | 144361  | 1.78%   | 0.236%  |
| 60 | 13.221 | 1891 | 1893 | 1897 | rBV  | 158354  | 164650  | 2.03%   | 0.269%  |
| 61 | 13.398 | 1921 | 1923 | 1926 | rBV  | 189947  | 184678  | 2.27%   | 0.302%  |
| 62 | 13.610 | 1956 | 1959 | 1962 | rBV2 | 178535  | 229529  | 2.83%   | 0.375%  |
| 63 | 13.639 | 1962 | 1964 | 1966 | rVV  | 185350  | 153687  | 1.89%   | 0.251%  |
| 64 | 13.663 | 1966 | 1968 | 1973 | rVB2 | 119646  | 153063  | 1.88%   | 0.250%  |
| 65 | 13.815 | 1992 | 1994 | 1996 | rBV  | 125359  | 119600  | 1.47%   | 0.195%  |
| 66 | 13.862 | 1997 | 2002 | 2005 | rVV2 | 1947172 | 2856627 | 35.18%  | 4.668%  |
| 67 | 13.892 | 2005 | 2007 | 2015 | rVB  | 1037622 | 921879  | 11.35%  | 1.506%  |
| 68 | 13.968 | 2017 | 2020 | 2023 | rVB  | 272901  | 226794  | 2.79%   | 0.371%  |
| 69 | 14.045 | 2030 | 2033 | 2036 | rVB3 | 191865  | 219635  | 2.70%   | 0.359%  |
| 70 | 14.251 | 2064 | 2068 | 2071 | rBV3 | 379820  | 453192  | 5.58%   | 0.740%  |
| 71 | 14.345 | 2081 | 2084 | 2086 | rVB2 | 291187  | 224148  | 2.76%   | 0.366%  |

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Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

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-BF022719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 72 | 14.639 | 2132 | 2134 | 2137 | rBV  | 168875 | 153432  | 1.89%  | 0.251% |
| 73 | 14.874 | 2170 | 2174 | 2182 | rBV  | 871303 | 1625324 | 20.01% | 2.656% |
| 74 | 15.157 | 2218 | 2222 | 2227 | rVB  | 507169 | 644022  | 7.93%  | 1.052% |
| 75 | 15.215 | 2228 | 2232 | 2238 | rBV  | 721820 | 883974  | 10.89% | 1.444% |
| 76 | 15.274 | 2238 | 2242 | 2245 | rBV  | 772076 | 992826  | 12.23% | 1.622% |
| 77 | 16.633 | 2469 | 2473 | 2481 | rVB2 | 322483 | 582734  | 7.18%  | 0.952% |

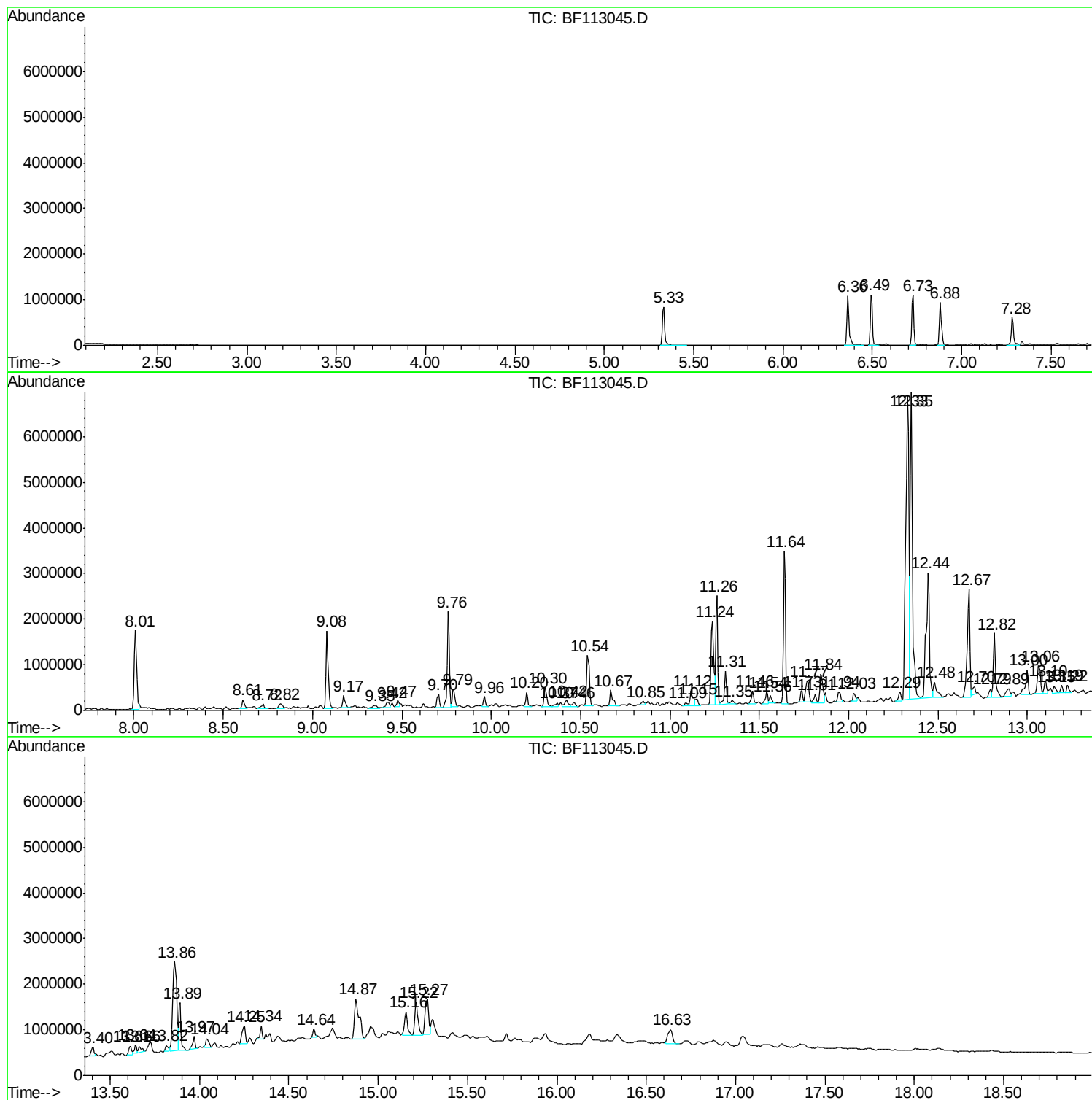
Sum of corrected areas: 61202167

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
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Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
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Misc :  
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Instrument :  
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ClientSampleId :  
OR-02-031219-A

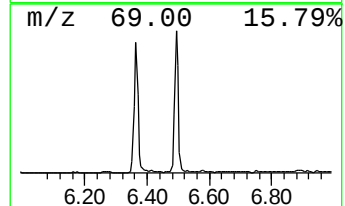
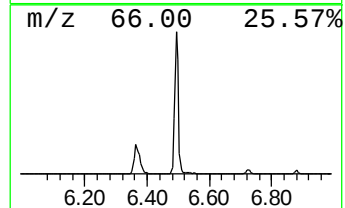
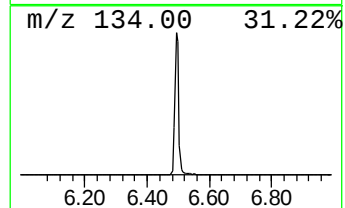
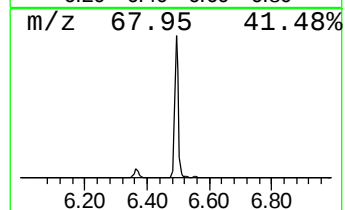
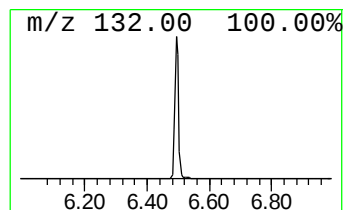
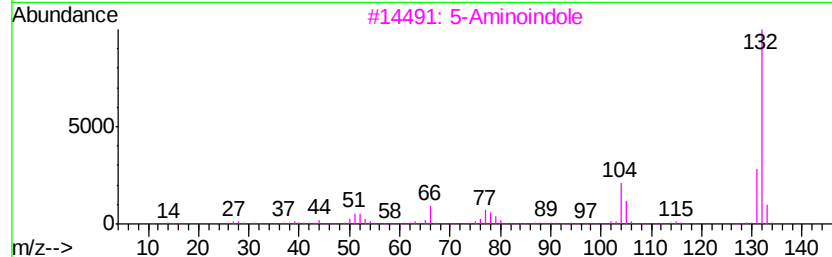
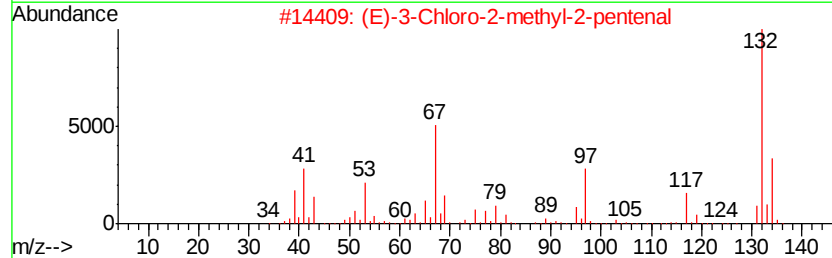
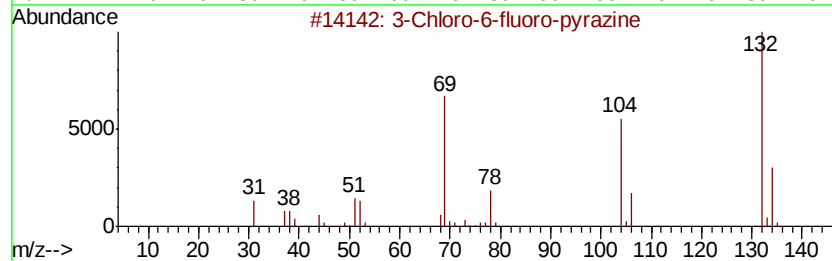
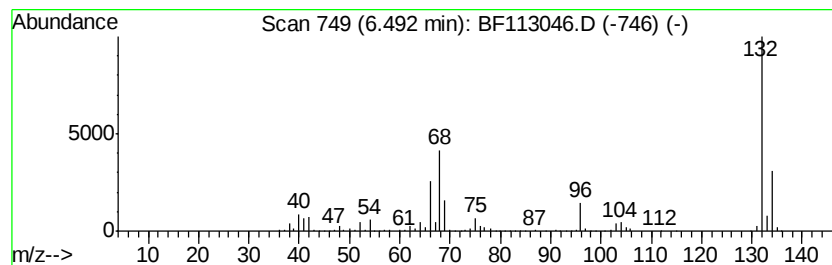
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 unknown6.49 Concentration Rank 4

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.49 | 20.30 ng | 957858 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 10   |



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Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

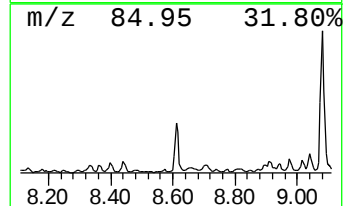
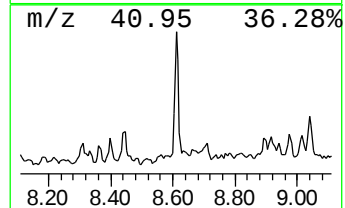
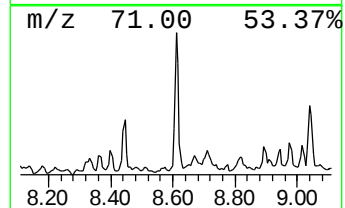
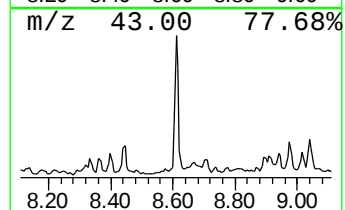
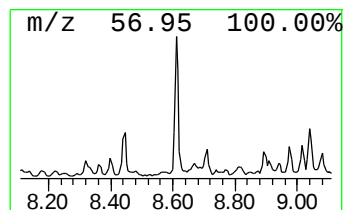
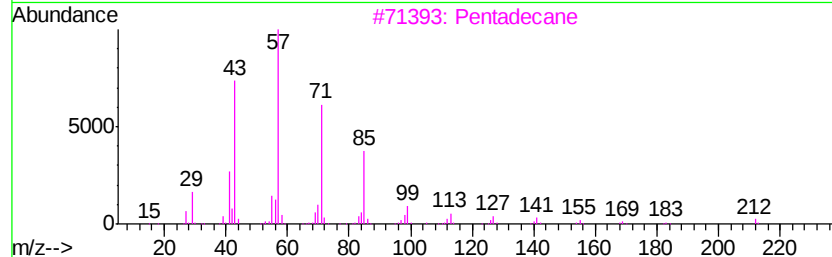
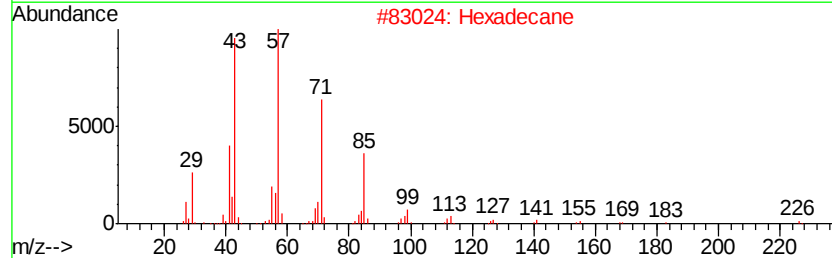
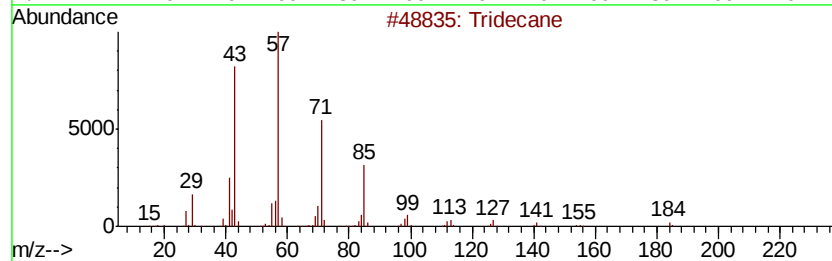
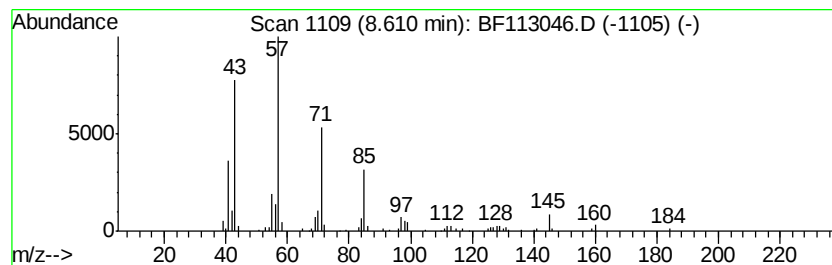
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Tridecane Concentration Rank 18

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 8.61 | 2.55 ng | 186532 | Naphthalene-d8   | 8.01 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane    | 184 | C13H28  | 000629-50-5 | 95   |
| 2    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 83   |
| 3    |    | Pentadecane  | 212 | C15H32  | 000629-62-9 | 80   |
| 4    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 80   |
| 5    |    | Dodecane     | 170 | C12H26  | 000112-40-3 | 80   |



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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

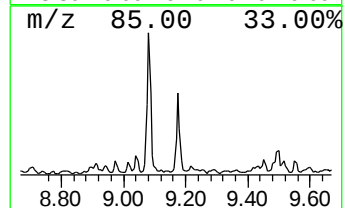
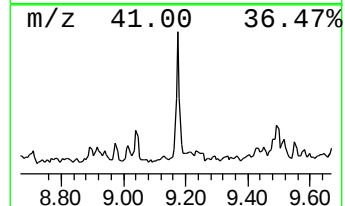
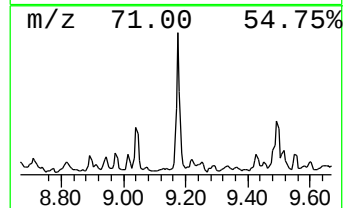
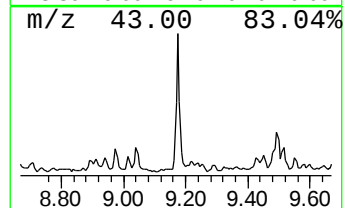
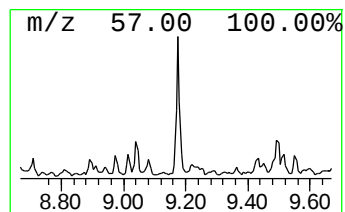
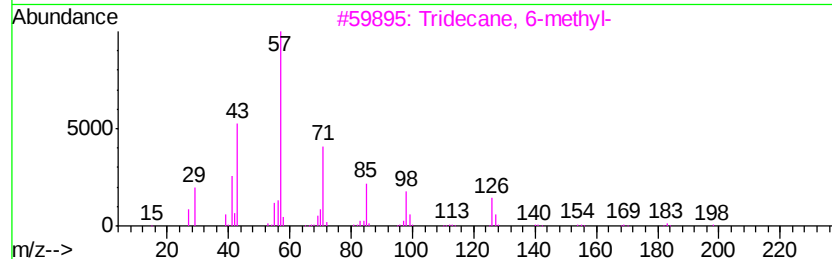
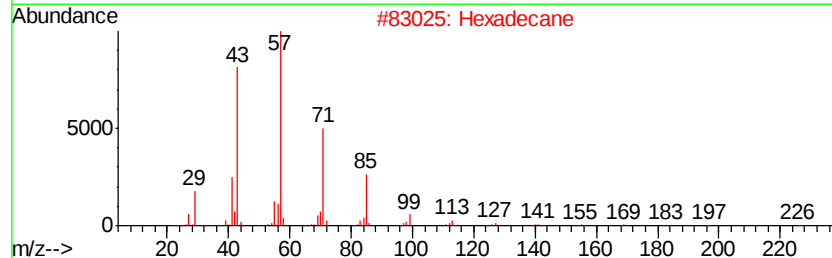
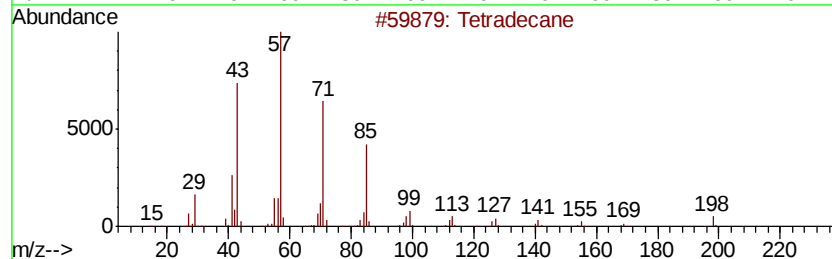
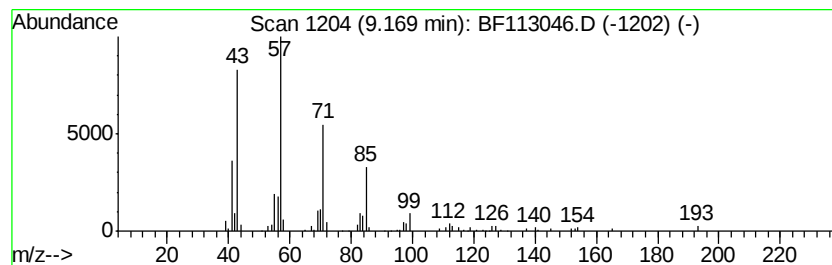
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Tetradecane Concentration Rank 19

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.17 | 2.44 ng | 228626 | Acenaphthene-d10 | 9.76 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Tetradecane               | 198 | C14H30  | 000629-59-4 | 94   |
| 2    |    | Hexadecane                | 226 | C16H34  | 000544-76-3 | 91   |
| 3    |    | Tridecane, 6-methyl-      | 198 | C14H30  | 013287-21-3 | 87   |
| 4    |    | Eicosane, 10-methyl-      | 296 | C21H44  | 054833-23-7 | 83   |
| 5    |    | Decane, 6-ethyl-2-methyl- | 184 | C13H28  | 062108-21-8 | 78   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

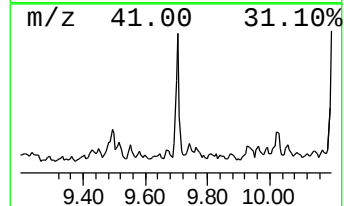
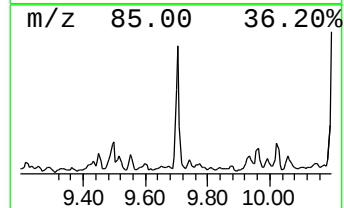
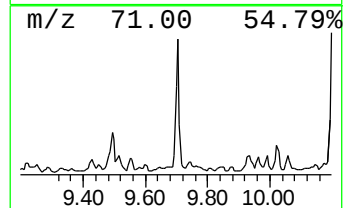
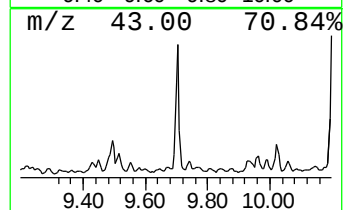
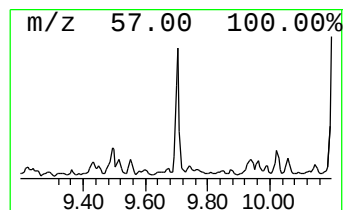
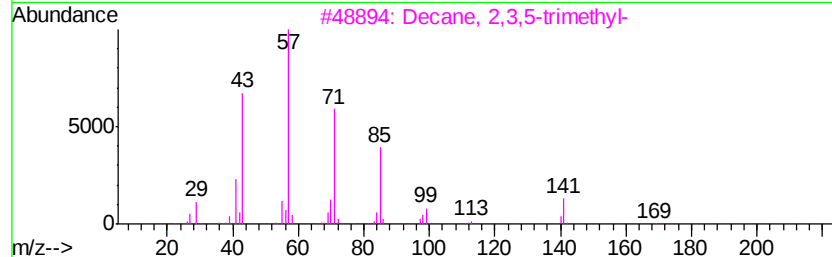
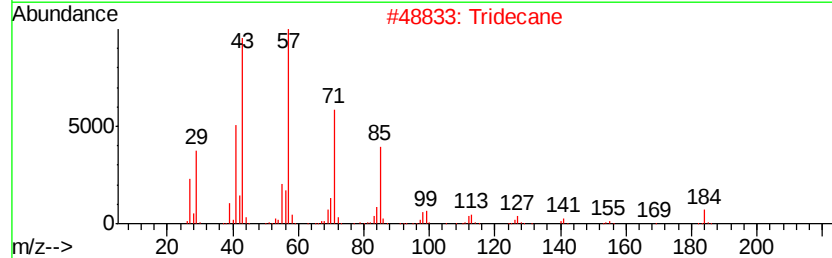
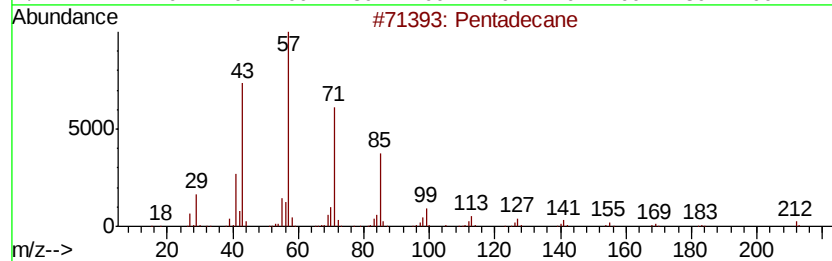
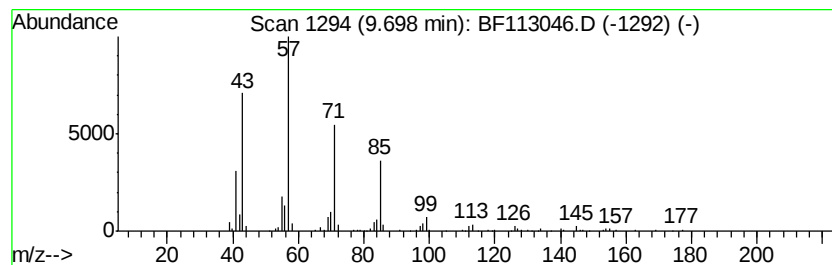
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Pentadecane Concentration Rank 20

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.70 | 2.42 ng | 226230 | Acenaphthene-d10 | 9.76 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|--------------------------|--------------|-----|---------|-------------|------|
| 1       | Pentadecane              |              | 212 | C15H32  | 000629-62-9 | 91   |
| 2       | Tridecane                |              | 184 | C13H28  | 000629-50-5 | 90   |
| 3       | Decane, 2,3,5-trimethyl- |              | 184 | C13H28  | 062238-11-3 | 78   |
| 4       | Hexadecane               |              | 226 | C16H34  | 000544-76-3 | 72   |
| 5       | Decane, 2,3,6-trimethyl- |              | 184 | C13H28  | 062238-12-4 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

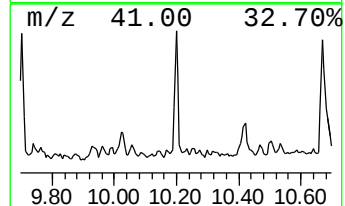
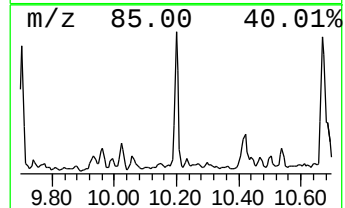
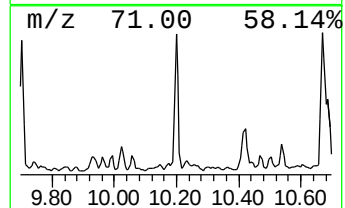
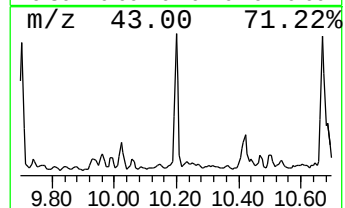
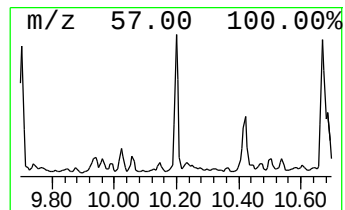
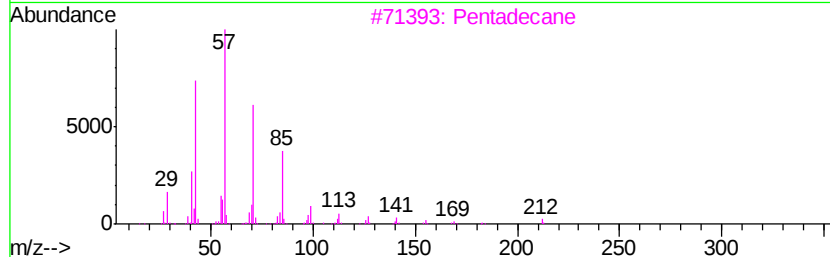
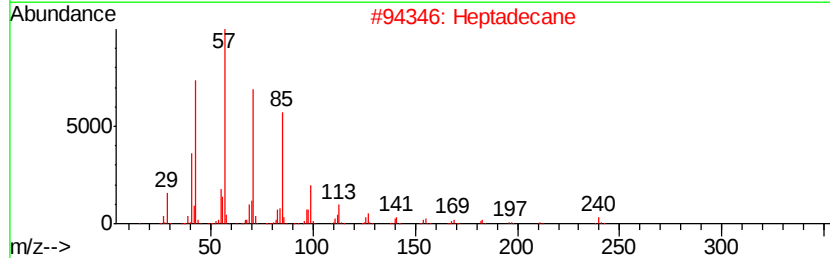
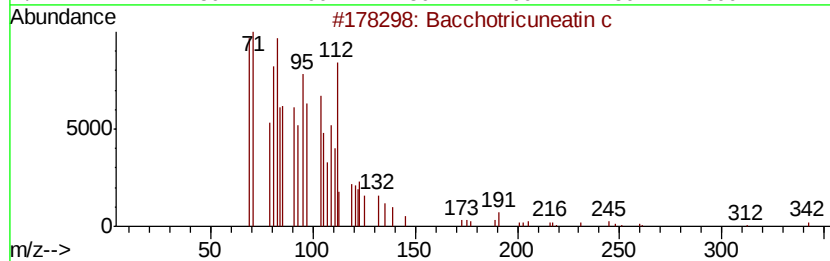
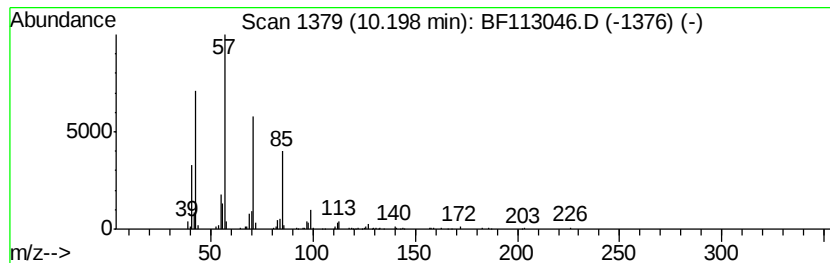
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Bacchotricuneatin c Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T. |
|-------|---------|--------|------------------|------|
| 10.20 | 2.59 ng | 242409 | Acenaphthene-d10 | 9.76 |

| Hit# | of | Tentative ID           | MW  | MolForm  | CAS#        | Qual |
|------|----|------------------------|-----|----------|-------------|------|
| 1    | 5  | Bacchotricuneatin c    | 342 | C20H22O5 | 066563-30-2 | 97   |
| 2    |    | Heptadecane            | 240 | C17H36   | 000629-78-7 | 90   |
| 3    |    | Pentadecane            | 212 | C15H32   | 000629-62-9 | 90   |
| 4    |    | Hexadecane             | 226 | C16H34   | 000544-76-3 | 89   |
| 5    |    | Pentadecane, 7-methyl- | 226 | C16H34   | 006165-40-8 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

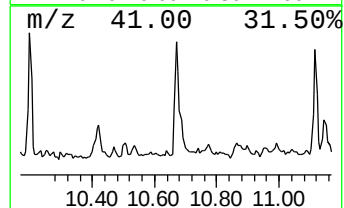
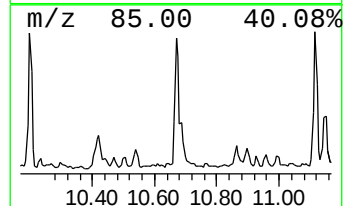
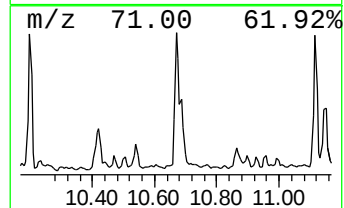
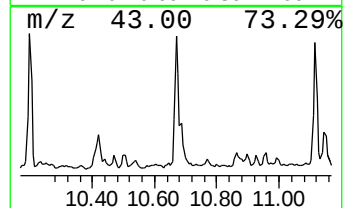
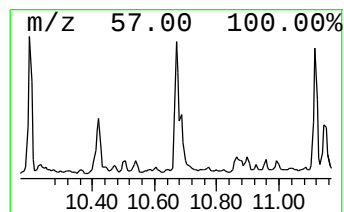
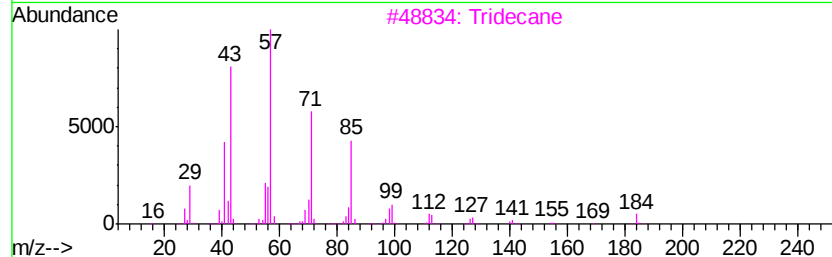
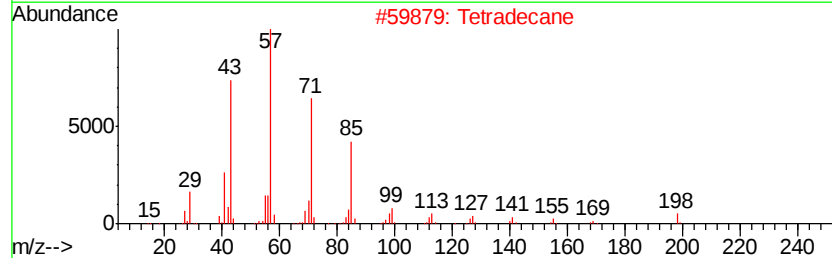
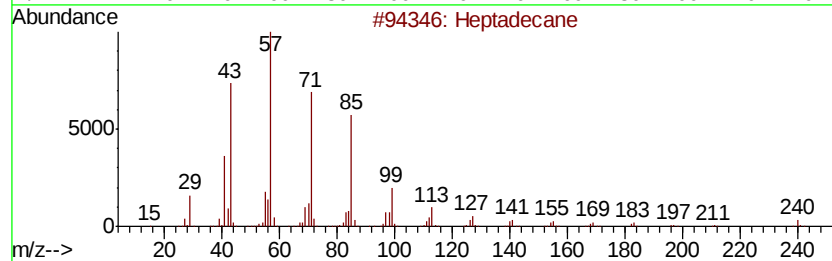
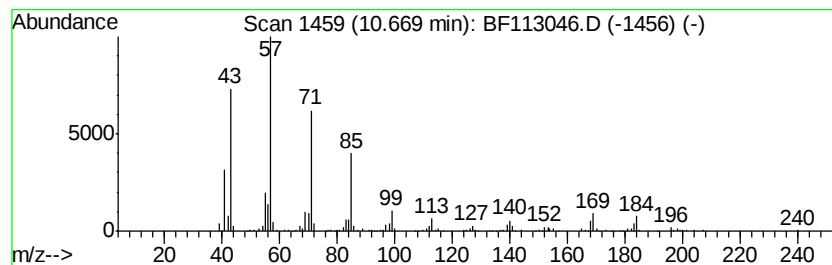
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Heptadecane Concentration Rank 12

| R.T.      | EstConc      | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------|--------|------------------|-------------|------|
| 10.67     | 4.00 ng      | 380603 | Phenanthrene-d10 | 11.24       |      |
| Hit# of 5 | Tentative ID | MW     | MolForm          | CAS#        | Qual |
| 1         | Heptadecane  | 240    | C17H36           | 000629-78-7 | 95   |
| 2         | Tetradecane  | 198    | C14H30           | 000629-59-4 | 93   |
| 3         | Tridecane    | 184    | C13H28           | 000629-50-5 | 81   |
| 4         | Heneicosane  | 296    | C21H44           | 000629-94-7 | 72   |
| 5         | Eicosane     | 282    | C20H42           | 000112-95-8 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

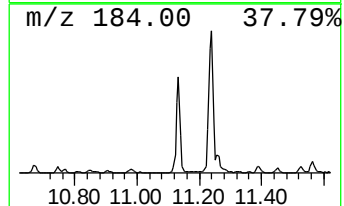
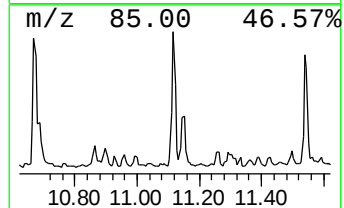
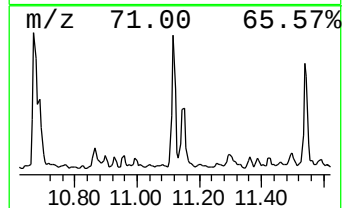
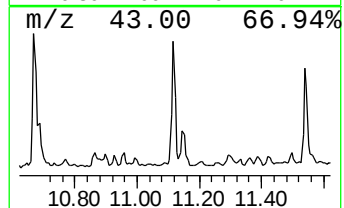
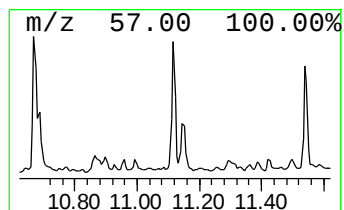
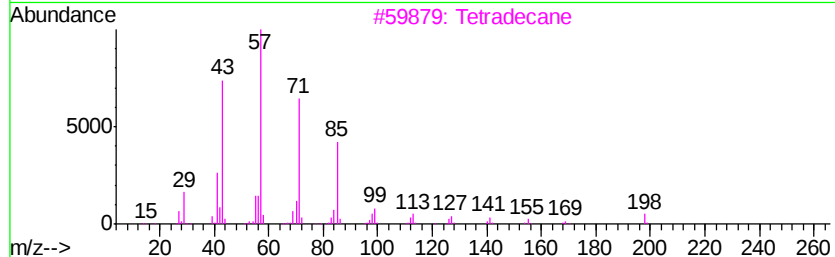
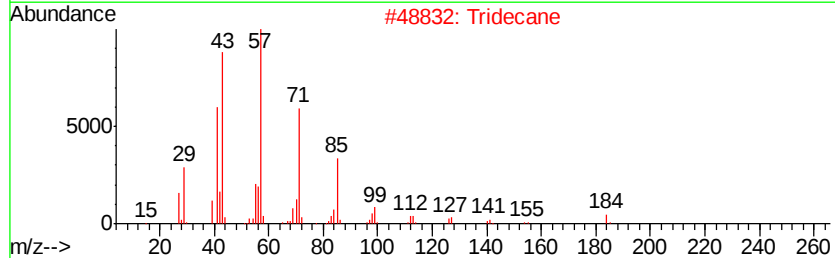
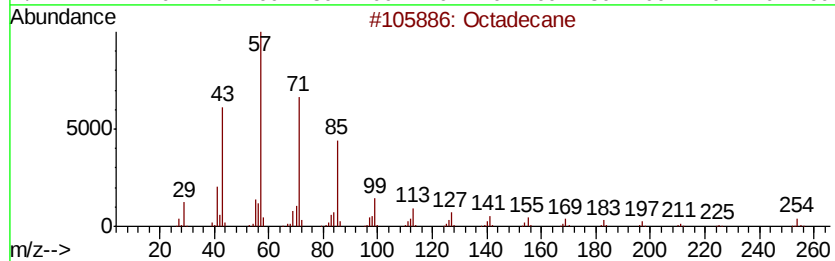
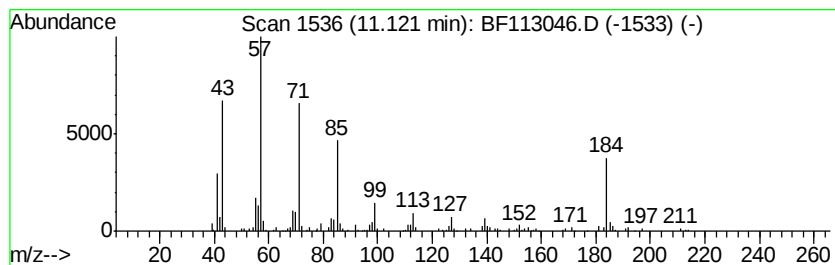
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Octadecane Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.12 | 4.23 ng | 402389 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID    | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane      | 254 | C18H38  | 000593-45-3 | 93   |
| 2    |    | Tridecane       | 184 | C13H28  | 000629-50-5 | 89   |
| 3    |    | Tetradecane     | 198 | C14H30  | 000629-59-4 | 87   |
| 4    |    | Heneicosane     | 296 | C21H44  | 000629-94-7 | 86   |
| 5    |    | Tritetracontane | 605 | C43H88  | 007098-21-7 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

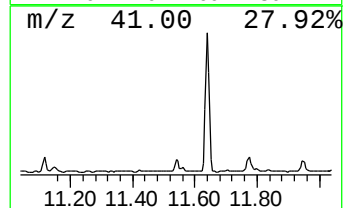
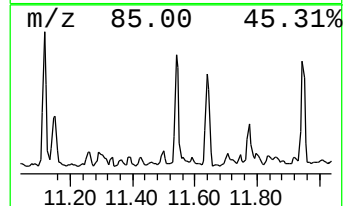
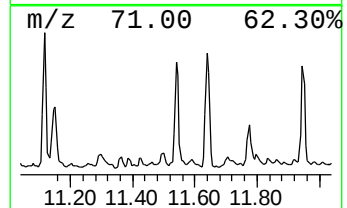
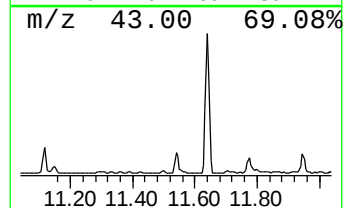
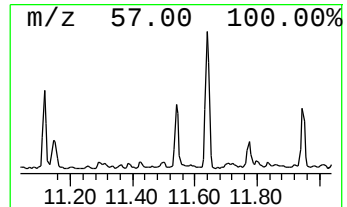
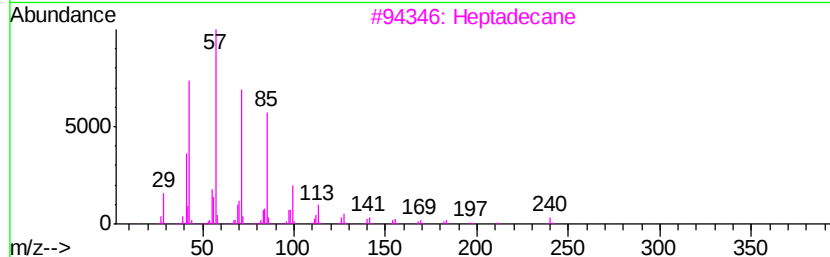
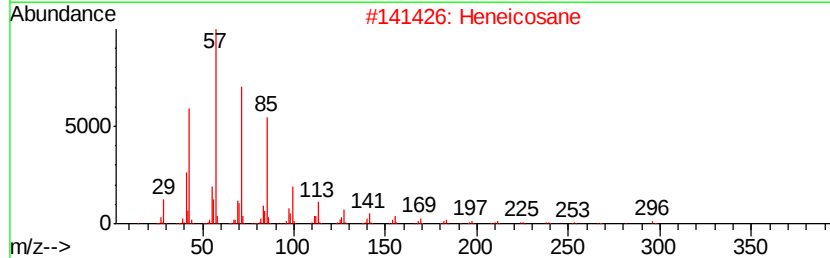
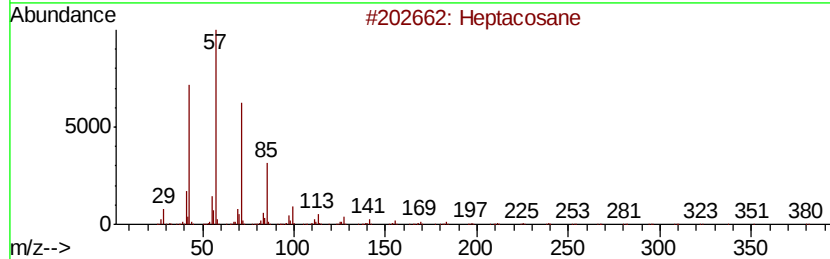
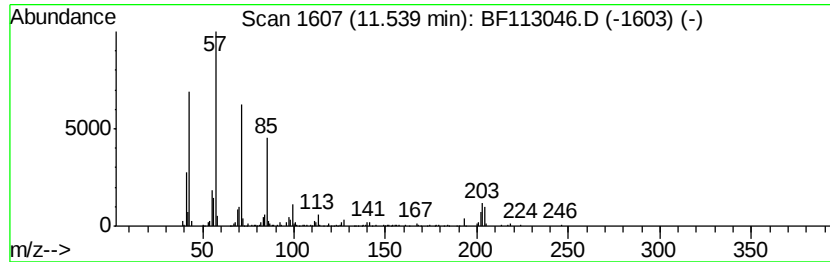
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.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 9 Heptacosane Concentration Rank 16

| R.T.      | EstConc      | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------|--------|------------------|-------------|------|
| 11.54     | 2.66 ng      | 253436 | Phenanthrene-d10 | 11.24       |      |
| Hit# of 5 | Tentative ID | MW     | MolForm          | CAS#        | Qual |
| 1         | Heptacosane  | 380    | C27H56           | 000593-49-7 | 72   |
| 2         | Heneicosane  | 296    | C21H44           | 000629-94-7 | 72   |
| 3         | Heptadecane  | 240    | C17H36           | 000629-78-7 | 64   |
| 4         | Octacosane   | 394    | C28H58           | 000630-02-4 | 64   |
| 5         | Hexadecane   | 226    | C16H34           | 000544-76-3 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

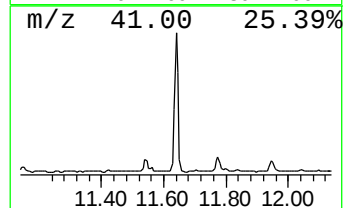
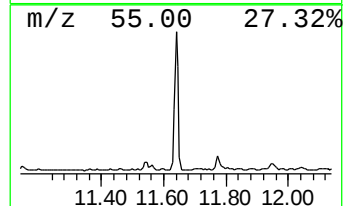
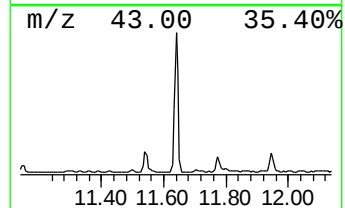
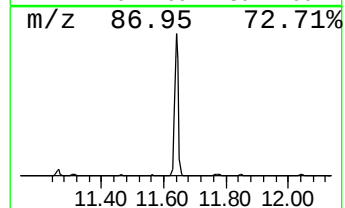
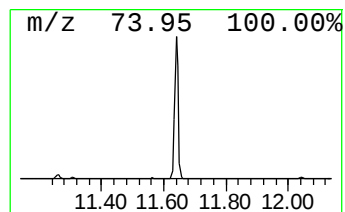
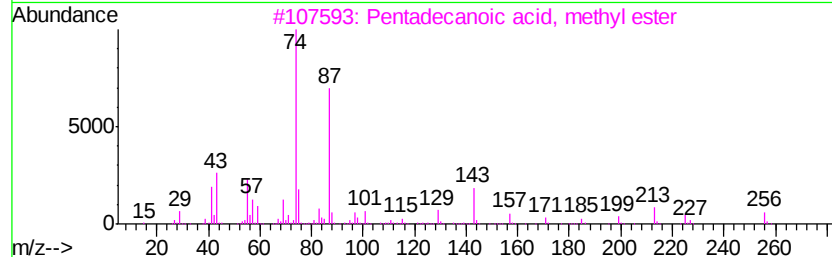
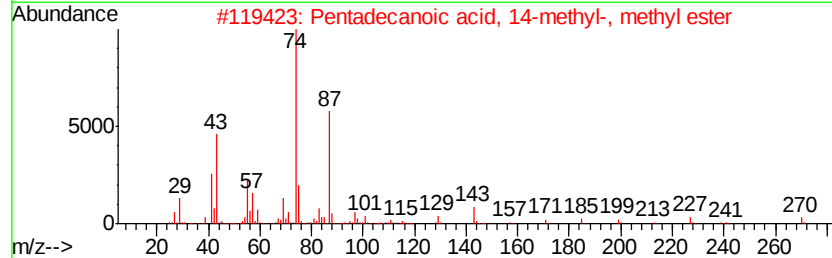
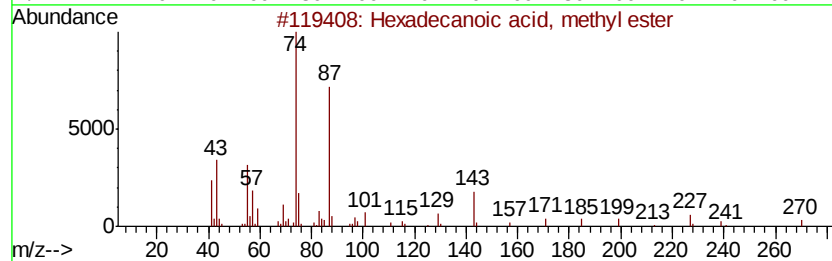
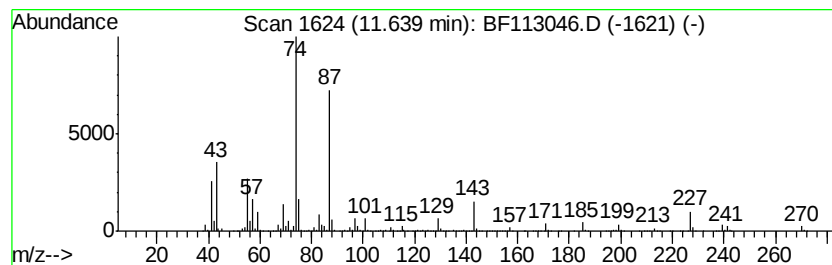
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Hexadecanoic acid, methyl e... Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.64 | 30.05 ng | 2858210 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, methyl ester     | 270 | C17H34O2 | 000112-39-0 | 98   |
| 2    |    | Pentadecanoic acid, 14-methyl-, ... | 270 | C17H34O2 | 005129-60-2 | 93   |
| 3    |    | Pentadecanoic acid, methyl ester    | 256 | C16H32O2 | 007132-64-1 | 86   |
| 4    |    | Methyl tetradecanoate               | 242 | C15H30O2 | 000124-10-7 | 80   |
| 5    |    | Undecanoic acid, methyl ester       | 200 | C12H24O2 | 001731-86-8 | 72   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

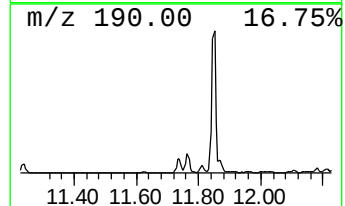
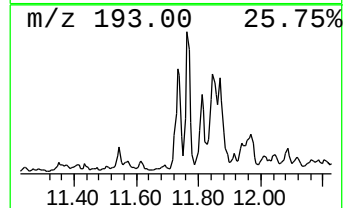
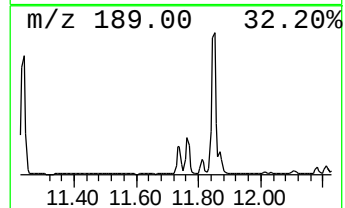
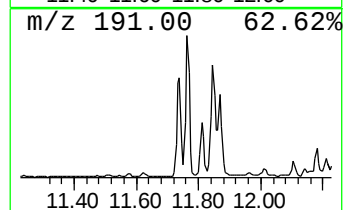
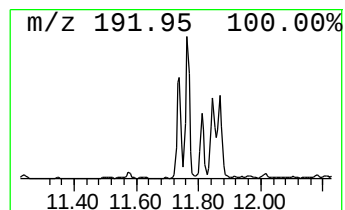
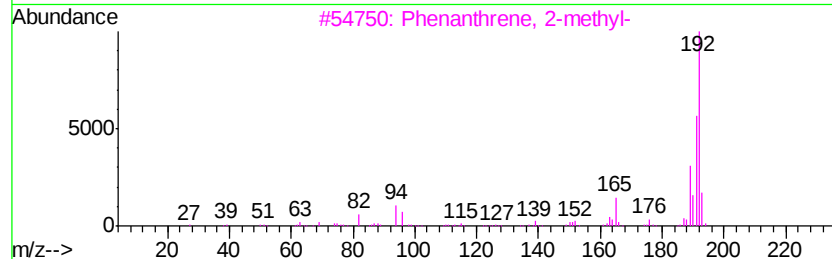
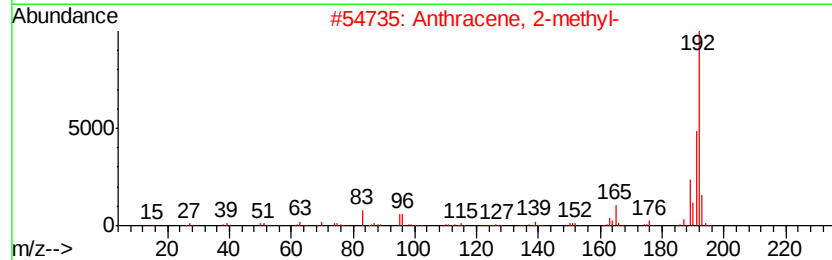
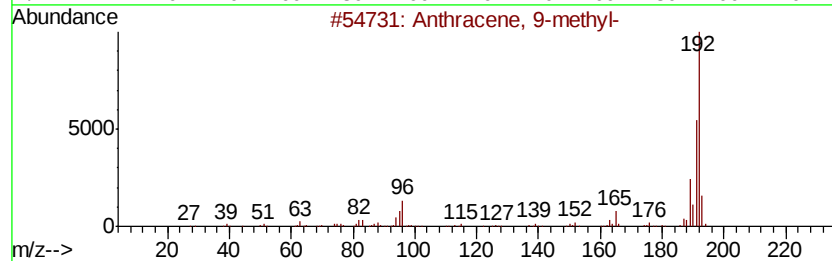
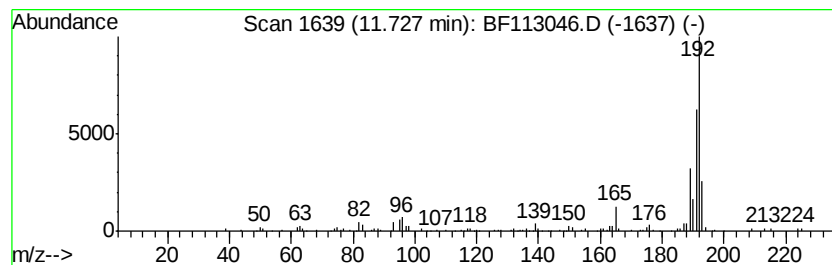
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Anthracene, 9-methyl- Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.73 | 2.70 ng | 256694 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 93   |
| 2    |    | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 91   |
| 3    |    | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 91   |
| 4    |    | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 91   |
| 5    |    | Phenanthrene, 3-methyl- | 192 | C15H12  | 000832-71-3 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

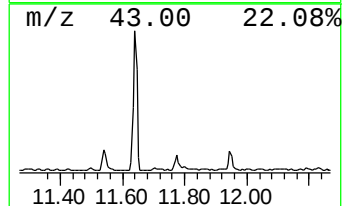
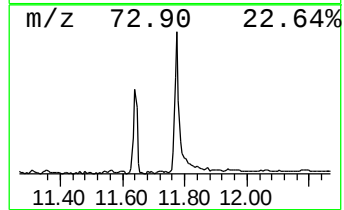
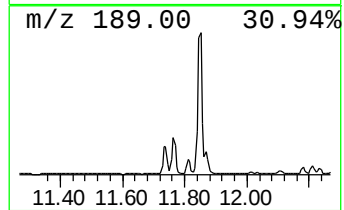
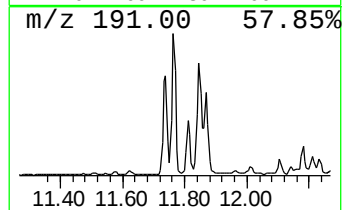
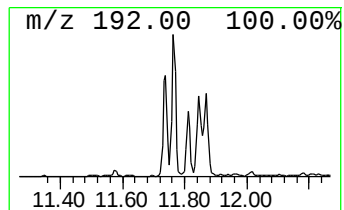
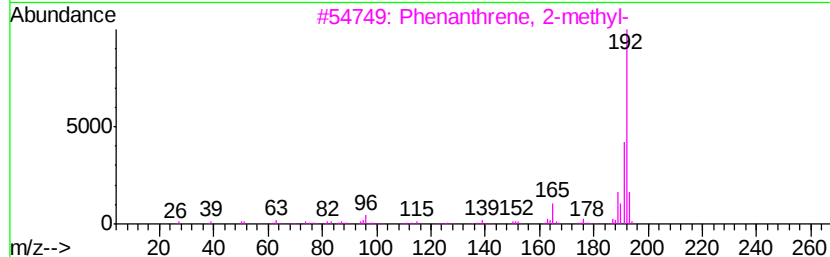
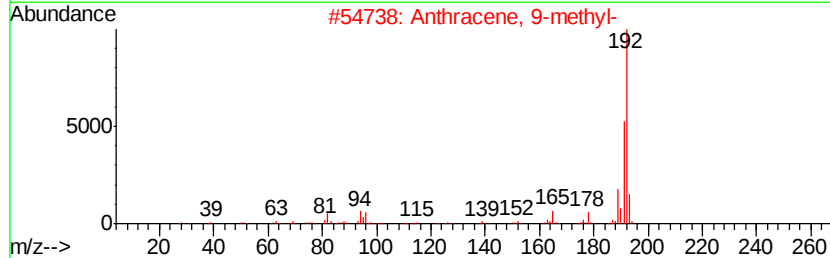
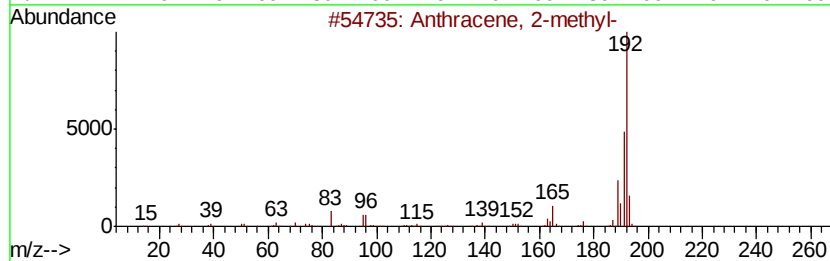
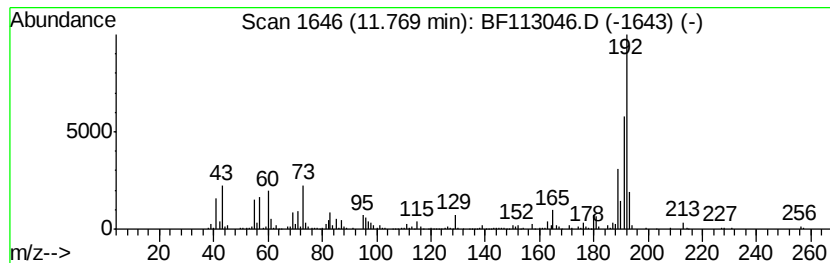
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Anthracene, 2-methyl- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.77 | 5.85 ng | 556386 | Phenanthrene-d10 | 11.24 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 97   |
| 2    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 95   |
| 3    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 95   |
| 4    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 94   |
| 5    |    |   | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

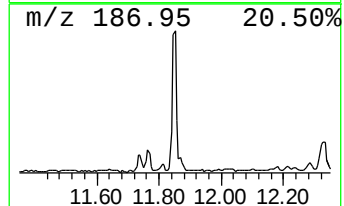
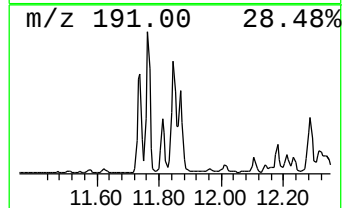
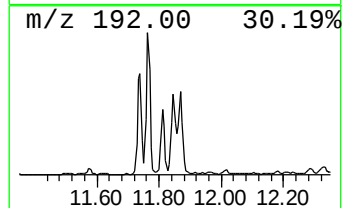
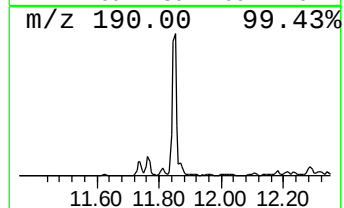
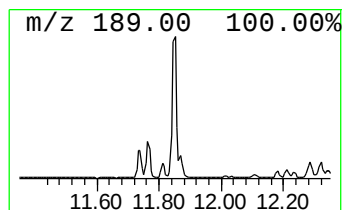
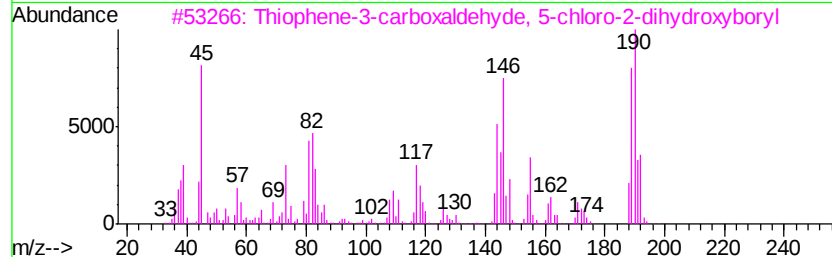
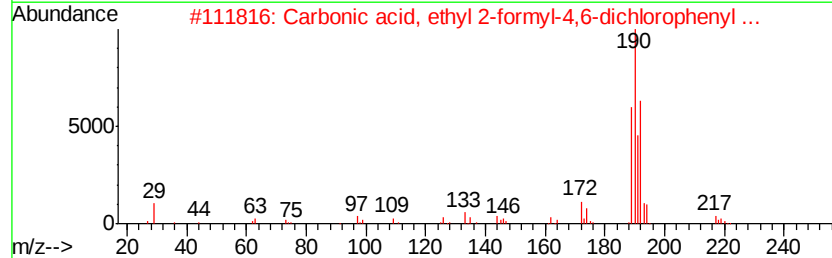
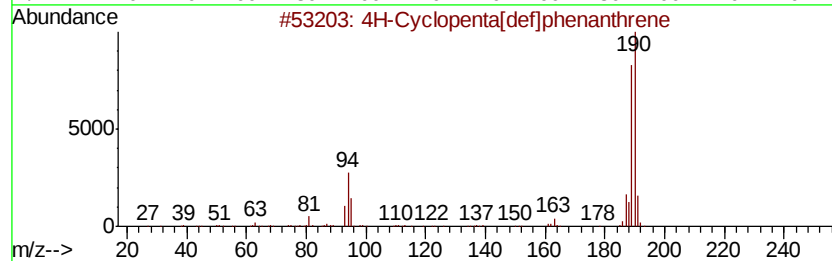
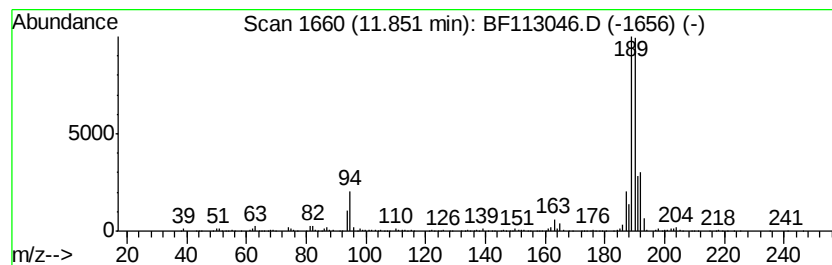
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 11.85     | 7.10 ng                             | 674839 | Phenanthrene-d10 | 11.24        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5  | 94   |
| 2         | Carbonic acid, ethyl 2-formyl-4,... | 262    | C10H8Cl2O4       | 1000331-34-4 | 50   |
| 3         | Thiophene-3-carboxaldehyde, 5-ch... | 190    | C5H4BClO3S       | 036155-87-0  | 50   |
| 4         | 6H-Cyclobuta[flk]phenanthrene       | 190    | C15H10           | 083469-43-6  | 40   |
| 5         | 2,2'-Bis(4,5-dimethylimidazole)     | 190    | C10H14N4         | 069286-06-2  | 32   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
 Data File : BF113046.D  
 Acq On : 13 Mar 2019 23:40  
 Operator : JU/SJ  
 Sample : K1693-05 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

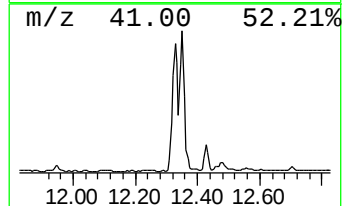
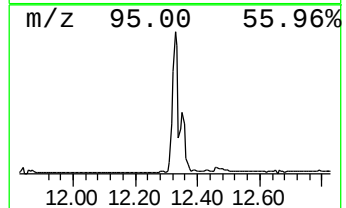
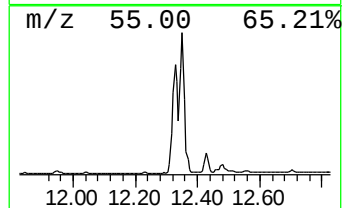
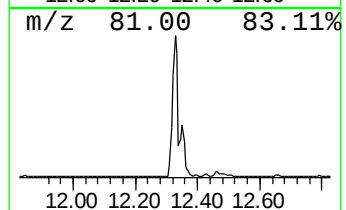
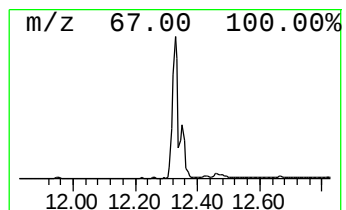
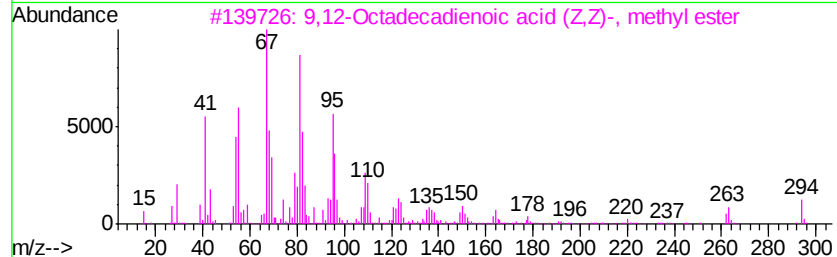
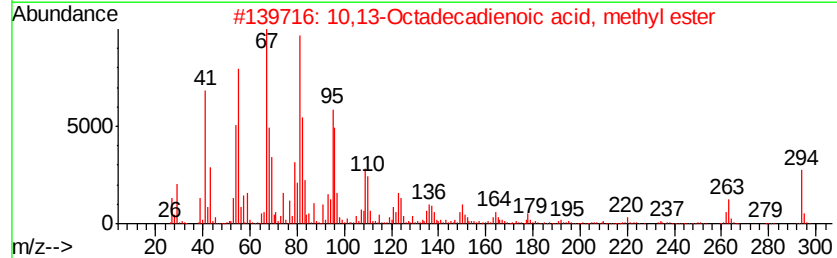
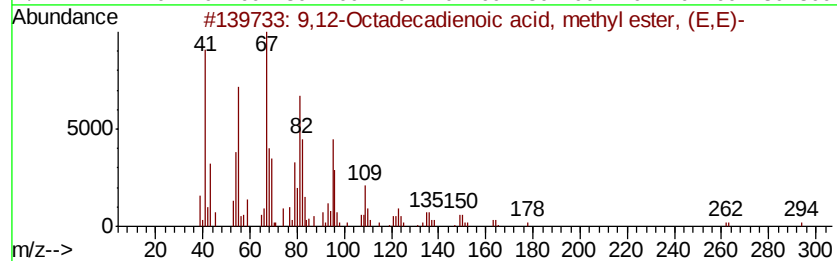
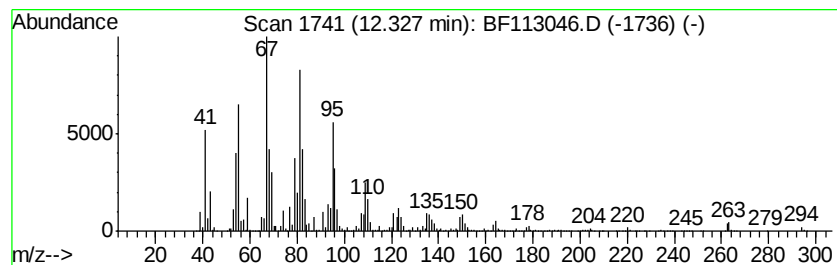
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.33 | 85.39 ng | 8120810 | Phenanthrene-d10 | 11.24 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99   |
| 2    |    |   | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 99   |
| 3    |    |   | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99   |
| 4    |    |   | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99   |
| 5    |    |   | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

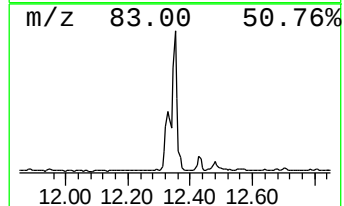
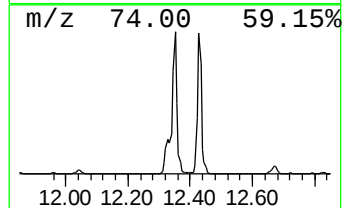
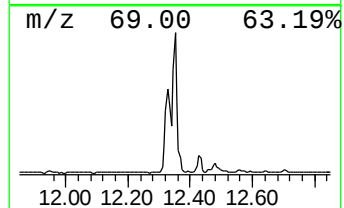
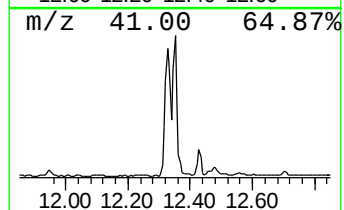
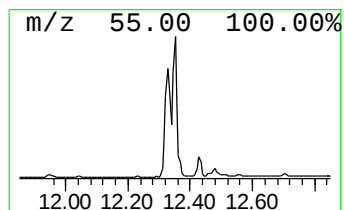
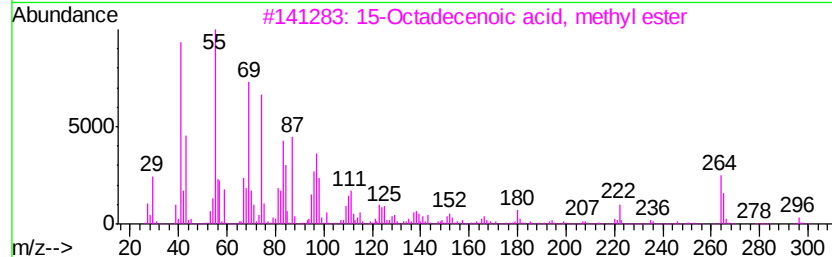
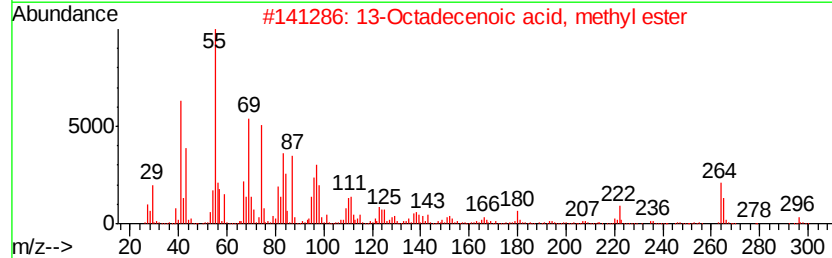
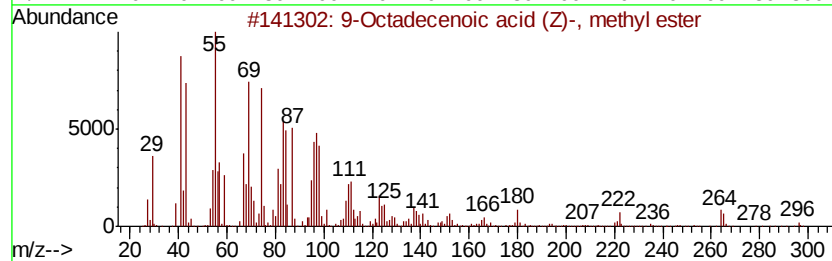
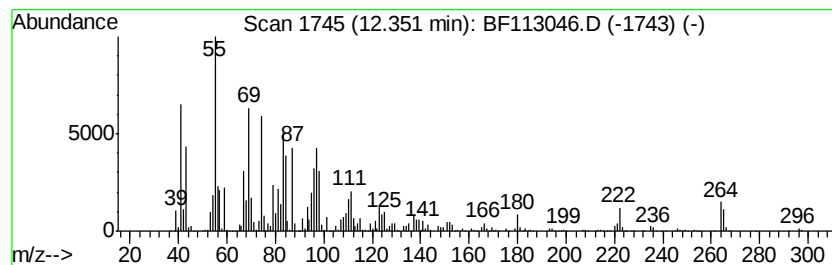
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.35 | 67.60 ng | 6429180 | Phenanthrene-d10 | 11.24 |

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

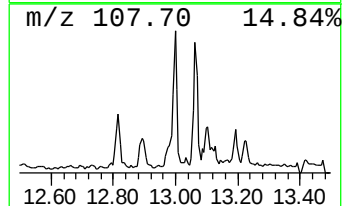
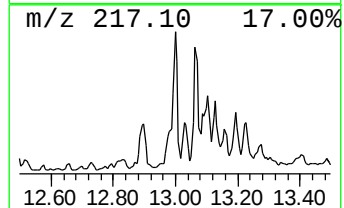
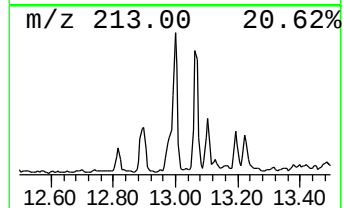
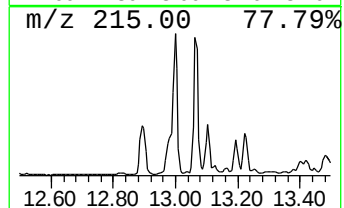
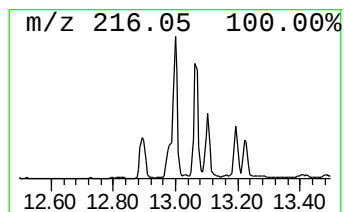
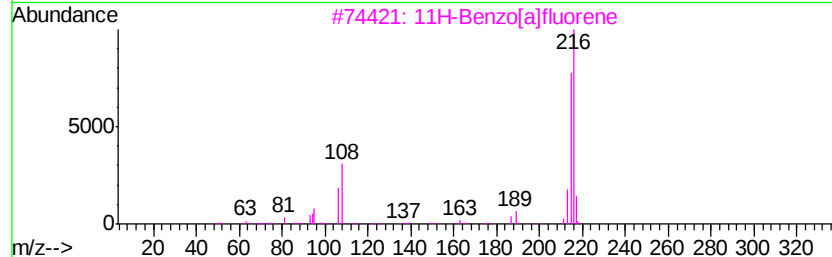
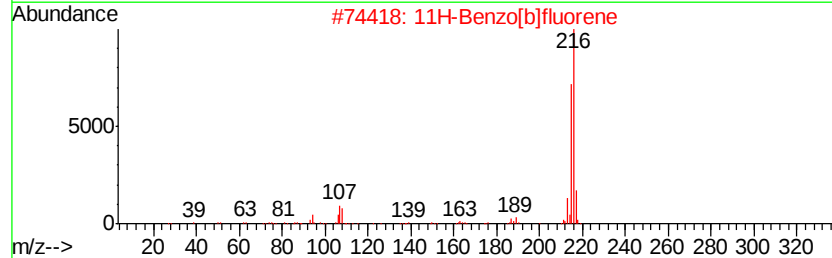
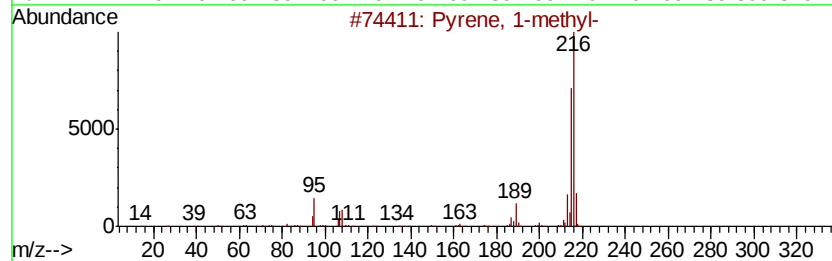
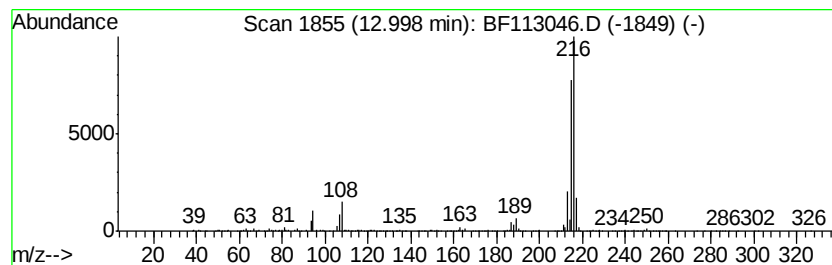
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Pyrene, 1-methyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.00 | 4.43 ng | 632209 | Chrysene-d12     | 13.87 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 94   |
| 2    |    |   | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 93   |
| 3    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 93   |
| 4    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 91   |
| 5    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

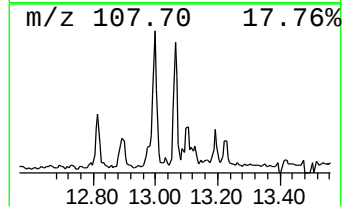
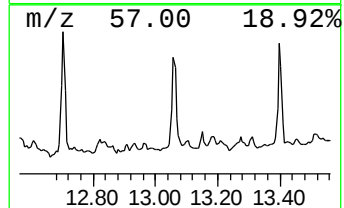
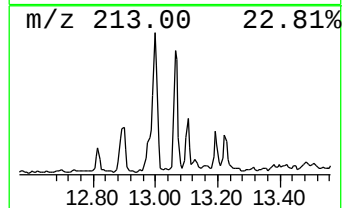
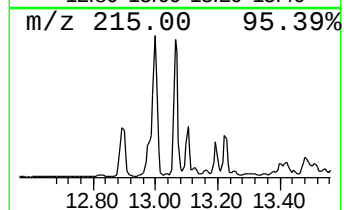
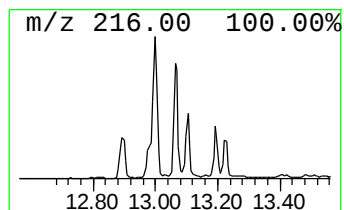
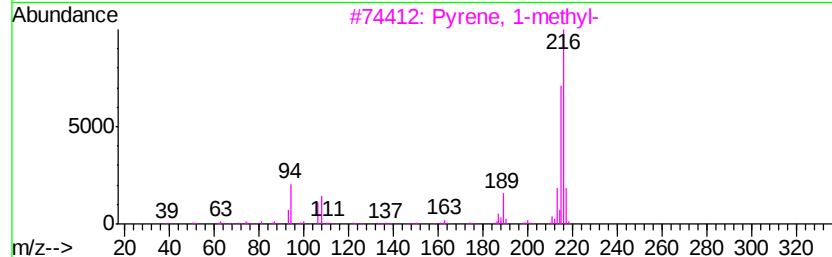
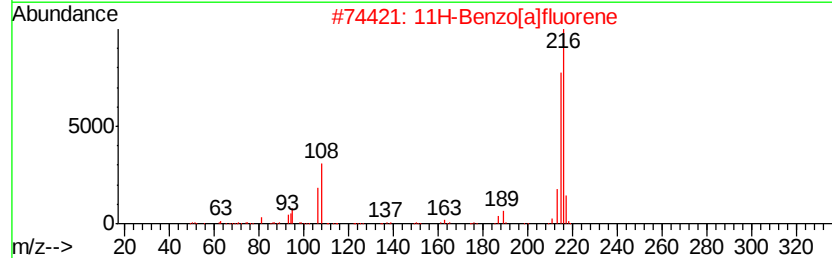
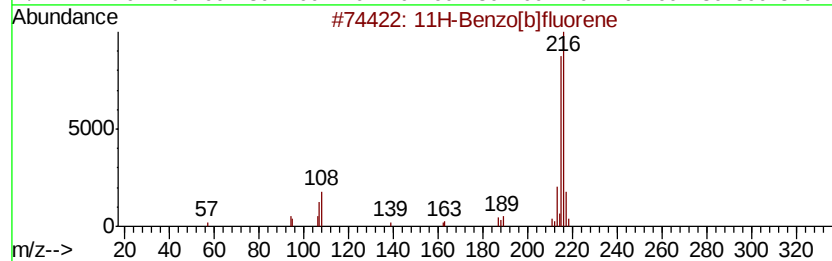
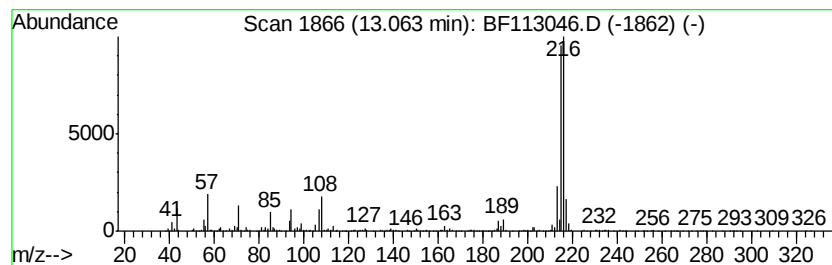
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.06 | 4.58 ng | 654439 | Chrysene-d12     | 13.87 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 11H-Benzo[b]fluorene                | 216 | C17H12   | 000243-17-4 | 94   |
| 2    |    | 11H-Benzo[a]fluorene                | 216 | C17H12   | 000238-84-6 | 90   |
| 3    |    | Pvrene, 1-methyl-                   | 216 | C17H12   | 002381-21-7 | 70   |
| 4    |    | Fluoranthene, 2-methyl-             | 216 | C17H12   | 033543-31-6 | 64   |
| 5    |    | 1,3,5-Triazine-2,4,6-triamine, N... | 216 | C10H12N6 | 046731-79-7 | 59   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

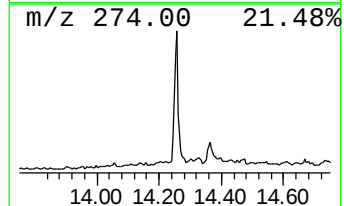
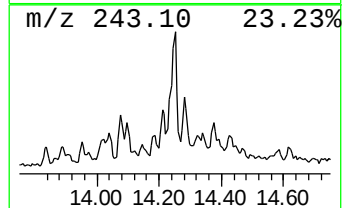
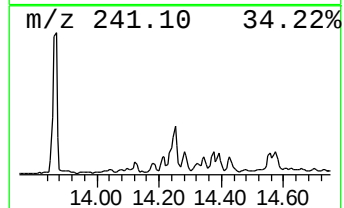
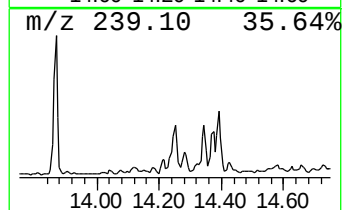
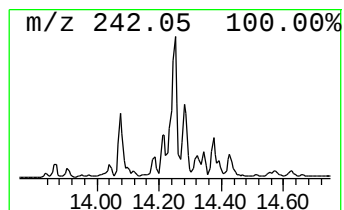
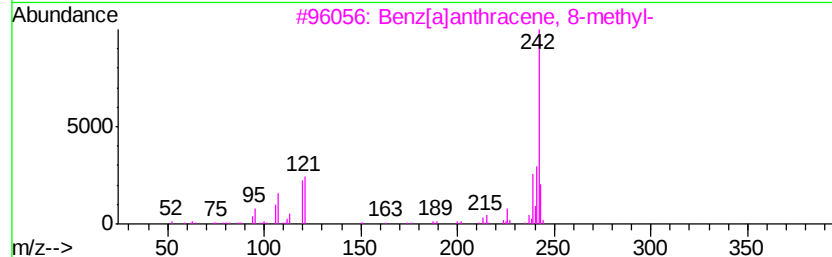
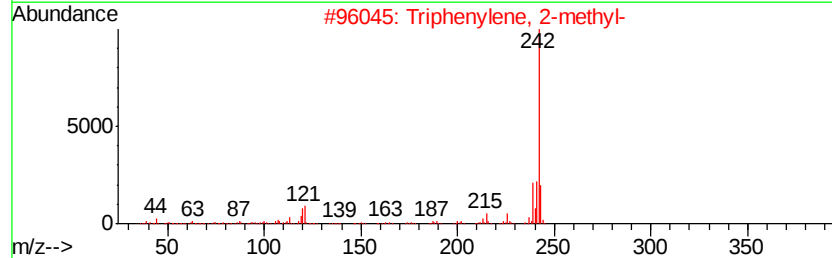
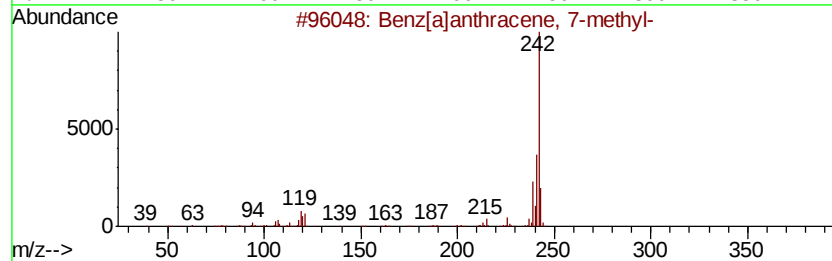
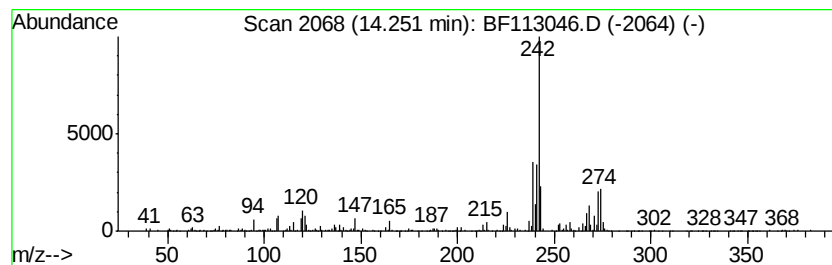
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 18 Benz[a]anthracene, 7-methyl- Concentration Rank 13

| R.T.    | EstConc | Area                         | Relative to ISTD |         | R.T.        |      |
|---------|---------|------------------------------|------------------|---------|-------------|------|
| 14.25   | 3.17 ng | 453192                       | Chrysene-d12     |         | 13.87       |      |
| Hit# of | 5       | Tentative ID                 | MW               | MolForm | CAS#        | Qual |
| 1       |         | Benz[alanthracene, 7-methyl- | 242              | C19H14  | 002541-69-7 | 90   |
| 2       |         | Triphenylene, 2-methyl-      | 242              | C19H14  | 001705-84-6 | 78   |
| 3       |         | Benz[alanthracene, 8-methyl- | 242              | C19H14  | 002381-31-9 | 78   |
| 4       |         | Benz[alanthracene, 1-methyl- | 242              | C19H14  | 002498-77-3 | 70   |
| 5       |         | Chrysene, 5-methyl-          | 242              | C19H14  | 003697-24-3 | 70   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

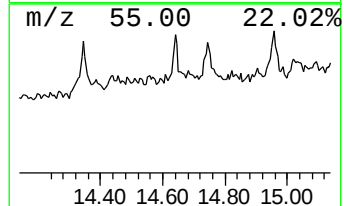
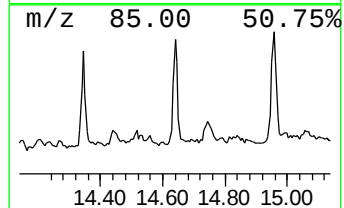
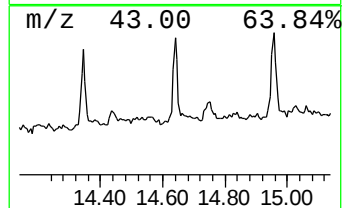
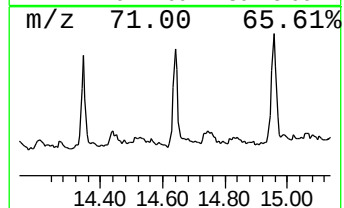
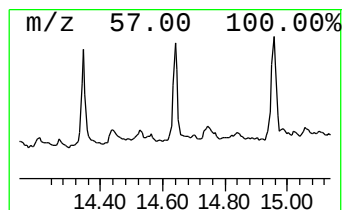
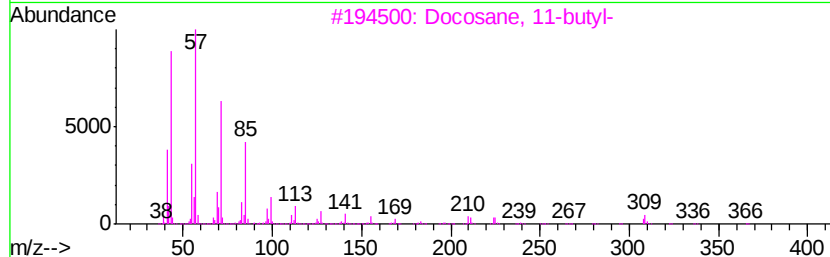
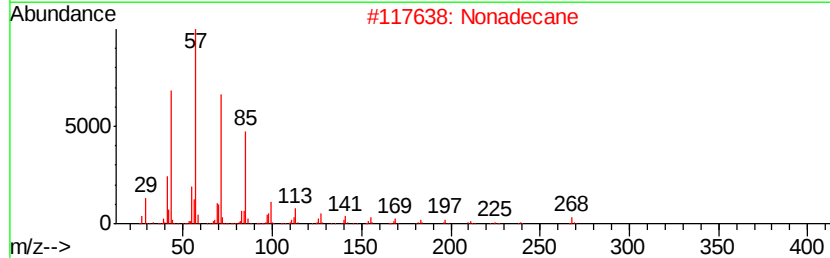
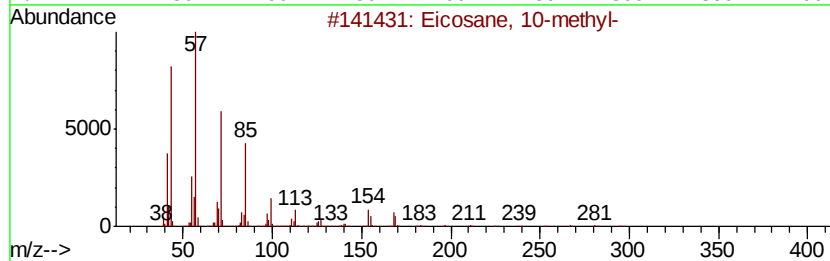
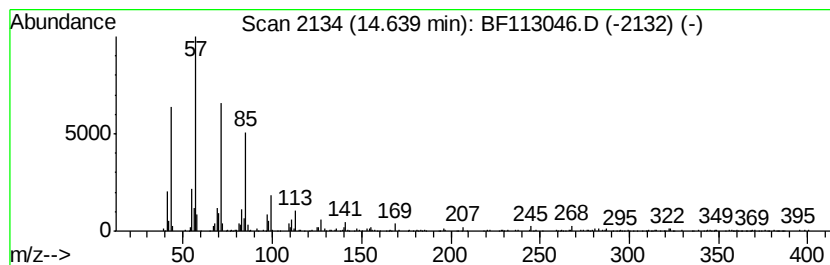
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 Eicosane, 10-methyl- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.64 | 3.09 ng | 153432 | Perylene-d12     | 15.27 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Eicosane, 10-methyl- | 296 | C21H44  | 054833-23-7 | 93   |
| 2    |    |   | Nonadecane           | 268 | C19H40  | 000629-92-5 | 93   |
| 3    |    |   | Docosane, 11-butyl-  | 366 | C26H54  | 013475-76-8 | 90   |
| 4    |    |   | Heneicosane          | 296 | C21H44  | 000629-94-7 | 90   |
| 5    |    |   | Pentacosane          | 352 | C25H52  | 000629-99-2 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF031319\  
Data File : BF113046.D  
Acq On : 13 Mar 2019 23:40  
Operator : JU/SJ  
Sample : K1693-05 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

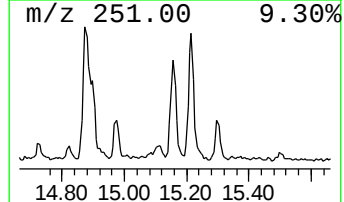
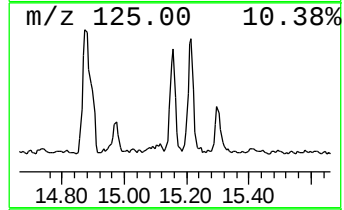
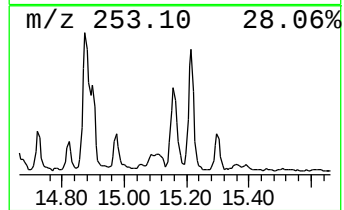
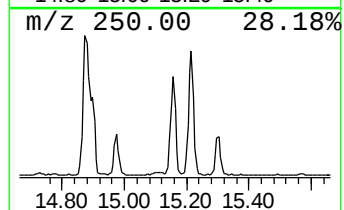
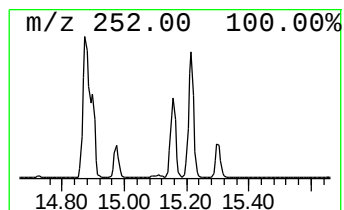
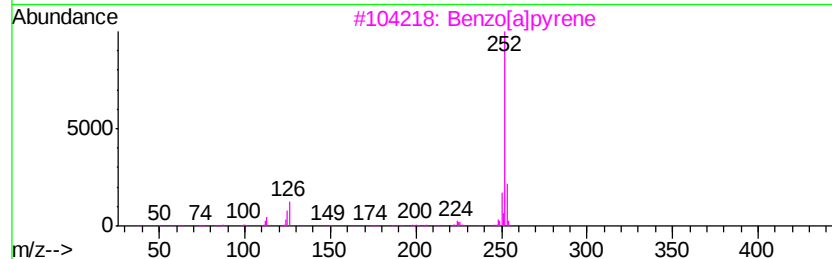
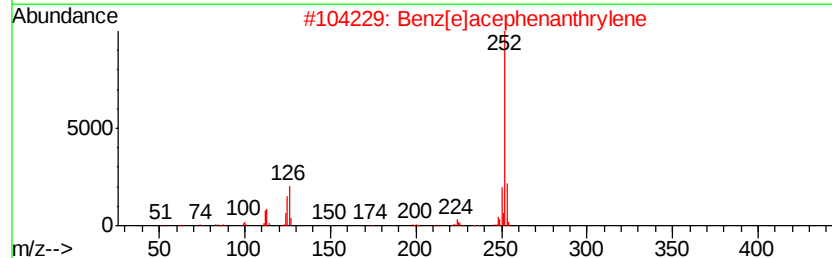
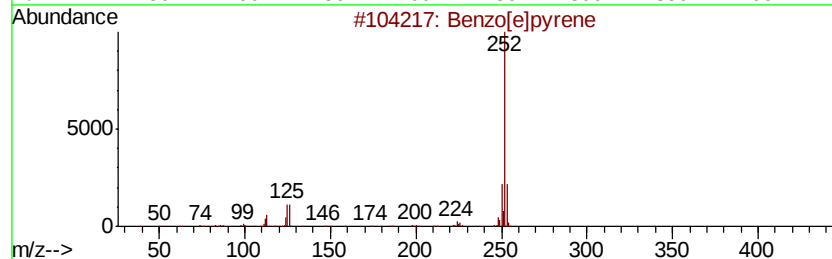
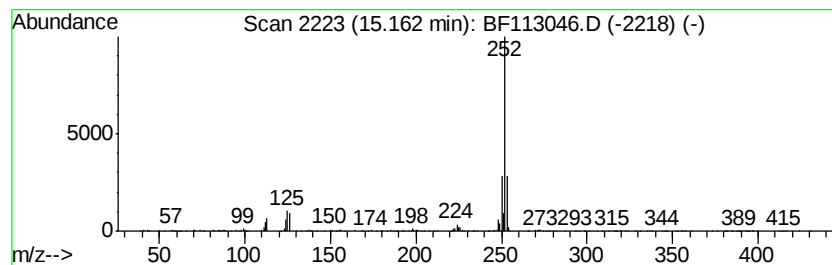
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Benzo[e]pyrene Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.16 | 12.97 ng | 644022 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]bpvrene          | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 95   |
| 3    |    | Benzo[a]bpvrene          | 252 | C20H12  | 000050-32-8 | 93   |
| 4    |    | Perylene                 | 252 | C20H12  | 000198-55-0 | 89   |
| 5    |    | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 89   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF031319\  
 Data File : BF113046.D  
 Acq On : 13 Mar 2019 23:40  
 Operator : JU/SJ  
 Sample : K1693-05 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-031219-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 |
| unknown6.49          | 6.49  | 20.3    | ng    | 957858   | 1                     | 6.73  | 943918  | 20.0 |
| Tridecane            | 8.61  | 2.5     | ng    | 186532   | 2                     | 8.01  | 1465260 | 20.0 |
| Tetradecane          | 9.17  | 2.4     | ng    | 228626   | 3                     | 9.76  | 1870540 | 20.0 |
| Pentadecane          | 9.70  | 2.4     | ng    | 226230   | 3                     | 9.76  | 1870540 | 20.0 |
| Bacchotricuneatin c  | 10.20 | 2.6     | ng    | 242409   | 3                     | 9.76  | 1870540 | 20.0 |
| Heptadecane          | 10.67 | 4.0     | ng    | 380603   | 4                     | 11.24 | 1902070 | 20.0 |
| Octadecane           | 11.12 | 4.2     | ng    | 402389   | 4                     | 11.24 | 1902070 | 20.0 |
| Heptacosane          | 11.54 | 2.7     | ng    | 253436   | 4                     | 11.24 | 1902070 | 20.0 |
| Hexadecanoic acid... | 11.64 | 30.1    | ng    | 2858210  | 4                     | 11.24 | 1902070 | 20.0 |
| Anthracene, 9-met... | 11.73 | 2.7     | ng    | 256694   | 4                     | 11.24 | 1902070 | 20.0 |
| Anthracene, 2-met... | 11.77 | 5.8     | ng    | 556386   | 4                     | 11.24 | 1902070 | 20.0 |
| 4H-Cyclopenta[def... | 11.85 | 7.1     | ng    | 674839   | 4                     | 11.24 | 1902070 | 20.0 |
| 9,12-Octadecadien... | 12.33 | 85.4    | ng    | 8120810  | 4                     | 11.24 | 1902070 | 20.0 |
| 9-Octadecenoic ac... | 12.35 | 67.6    | ng    | 6429180  | 4                     | 11.24 | 1902070 | 20.0 |
| Pyrene, 1-methyl-    | 13.00 | 4.4     | ng    | 632209   | 5                     | 13.87 | 2856630 | 20.0 |
| 11H-Benzo[b]fluorene | 13.06 | 4.6     | ng    | 654439   | 5                     | 13.87 | 2856630 | 20.0 |
| Benz[a]anthracene... | 14.25 | 3.2     | ng    | 453192   | 5                     | 13.87 | 2856630 | 20.0 |
| Eicosane, 10-methyl- | 14.64 | 3.1     | ng    | 153432   | 6                     | 15.27 | 992826  | 20.0 |
| Benzo[e]pyrene       | 15.16 | 13.0    | ng    | 644022   | 6                     | 15.27 | 992826  | 20.0 |