

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
 Data File : BF111351.D  
 Acq On : 13 Dec 2018 5:18  
 Operator : JU/SJ  
 Sample : J6342-01  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RICH-REC-ROAD-STONE-8

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-BF121218.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 4.375       | 384           | 389         | 396          | rBV      | 1498798        | 1727819       | 2.91%           | 1.167%        |
| 2         | 4.998       | 490           | 495         | 503          | rBV      | 1508276        | 1733365       | 2.92%           | 1.171%        |
| 3         | 5.416       | 562           | 566         | 585          | rVB      | 3891713        | 3599182       | 6.07%           | 2.431%        |
| 4         | 6.428       | 734           | 738         | 753          | rBV      | 4284243        | 5043075       | 8.50%           | 3.406%        |
| 5         | 6.563       | 757           | 761         | 765          | rBV      | 4101413        | 3900460       | 6.58%           | 2.634%        |
| 6         | 6.792       | 797           | 800         | 804          | rBV      | 1607251        | 1317130       | 2.22%           | 0.890%        |
| 7         | 6.863       | 808           | 812         | 823          | rBV      | 1198491        | 1172067       | 1.98%           | 0.792%        |
| 8         | 6.951       | 823           | 827         | 830          | rBV      | 4812534        | 4083995       | 6.89%           | 2.758%        |
| 9         | 7.351       | 890           | 895         | 898          | rBV      | 3163487        | 2837403       | 4.78%           | 1.916%        |
| 10        | 8.075       | 1014          | 1018        | 1022         | rBV      | 1797129        | 1534607       | 2.59%           | 1.036%        |
| 11        | 9.151       | 1197          | 1201        | 1205         | rBV      | 5417301        | 5005343       | 8.44%           | 3.380%        |
| 12        | 9.828       | 1313          | 1316        | 1321         | rBV      | 1542786        | 1435807       | 2.42%           | 0.970%        |
| 13        | 10.616      | 1446          | 1450        | 1454         | rBV      | 1110641        | 982356        | 1.66%           | 0.663%        |
| 14        | 11.310      | 1565          | 1568        | 1572         | rBV      | 1544723        | 1407328       | 2.37%           | 0.950%        |
| 15        | 12.898      | 1834          | 1838        | 1842         | rBV      | 4117521        | 4004101       | 6.75%           | 2.704%        |
| 16        | 13.792      | 1986          | 1990        | 1993         | rBV      | 1052758        | 974056        | 1.64%           | 0.658%        |
| 17        | 13.998      | 2012          | 2025        | 2028         | rBV5     | 16352537       | 59310352      | 100.00%         | 40.055%       |
| 18        | 14.339      | 2078          | 2083        | 2085         | rBV2     | 534276         | 875388        | 1.48%           | 0.591%        |
| 19        | 14.392      | 2087          | 2092        | 2094         | rBV      | 867722         | 1294956       | 2.18%           | 0.875%        |
| 20        | 14.416      | 2094          | 2096        | 2099         | rBV      | 882397         | 931292        | 1.57%           | 0.629%        |
| 21        | 14.445      | 2099          | 2101        | 2103         | rBV2     | 668063         | 784588        | 1.32%           | 0.530%        |
| 22        | 14.468      | 2103          | 2105        | 2107         | rVB      | 1486481        | 1131607       | 1.91%           | 0.764%        |
| 23        | 14.539      | 2111          | 2117        | 2118         | rBV      | 2903870        | 4656881       | 7.85%           | 3.145%        |
| 24        | 14.610      | 2126          | 2129        | 2132         | rBV      | 1283305        | 1988413       | 3.35%           | 1.343%        |
| 25        | 14.639      | 2132          | 2134        | 2137         | rVV      | 2424365        | 3293745       | 5.55%           | 2.224%        |
| 26        | 14.692      | 2141          | 2143        | 2145         | rVV      | 2838117        | 3043187       | 5.13%           | 2.055%        |
| 27        | 14.727      | 2147          | 2149        | 2155         | rVV      | 3960919        | 7310500       | 12.33%          | 4.937%        |
| 28        | 14.780      | 2155          | 2158        | 2162         | rVV      | 3201004        | 4949969       | 8.35%           | 3.343%        |
| 29        | 14.827      | 2164          | 2166        | 2170         | rVV      | 2557238        | 4062783       | 6.85%           | 2.744%        |
| 30        | 14.868      | 2170          | 2173        | 2177         | rVV2     | 2838859        | 4448404       | 7.50%           | 3.004%        |
| 31        | 14.915      | 2179          | 2181        | 2185         | rVV      | 2709380        | 2954997       | 4.98%           | 1.996%        |
| 32        | 14.957      | 2185          | 2188        | 2194         | rVB      | 2165008        | 3167290       | 5.34%           | 2.139%        |
| 33        | 15.004      | 2194          | 2196        | 2200         | rVB      | 1089160        | 1125446       | 1.90%           | 0.760%        |
| 34        | 15.051      | 2200          | 2204        | 2209         | rVB      | 777479         | 1279765       | 2.16%           | 0.864%        |

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Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

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-BF121218.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |     |        |        |       |        |
|----|--------|------|------|------|-----|--------|--------|-------|--------|
| 35 | 15.404 | 2260 | 2264 | 2267 | rBV | 611942 | 703833 | 1.19% | 0.475% |
|----|--------|------|------|------|-----|--------|--------|-------|--------|

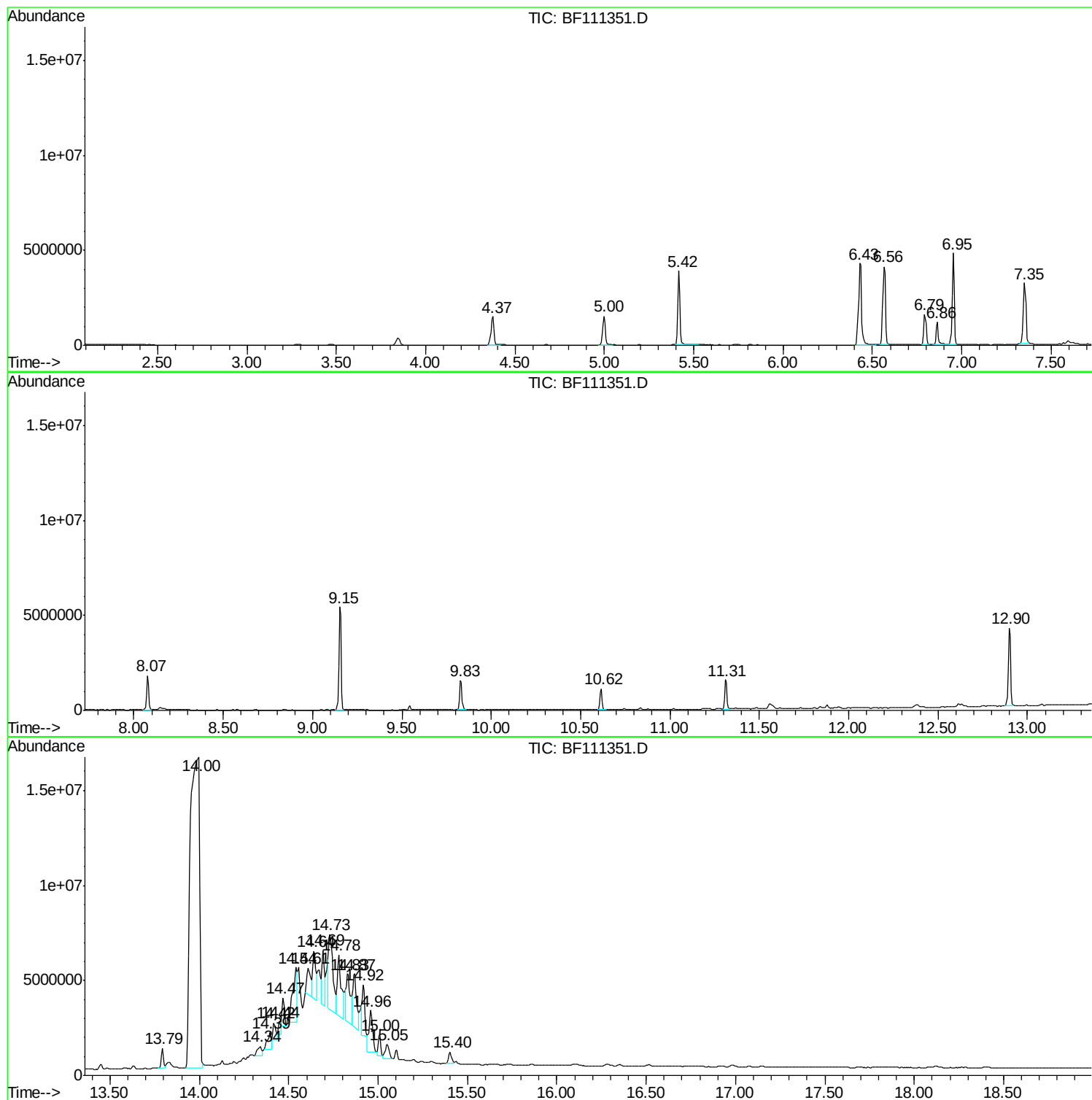
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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Misc :  
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Instrument :  
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RICH-REC-ROAD-STONE-8

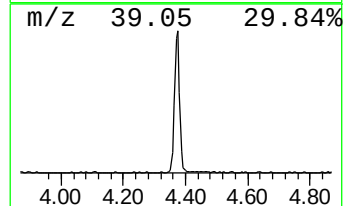
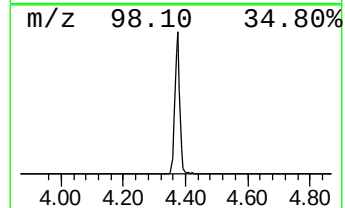
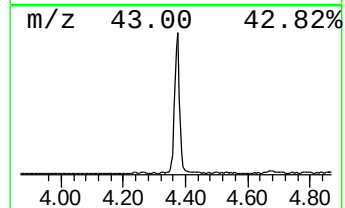
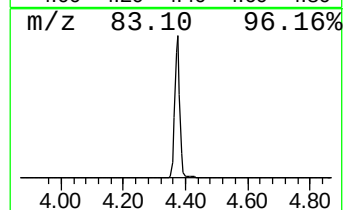
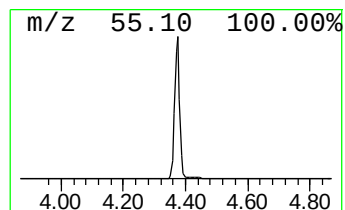
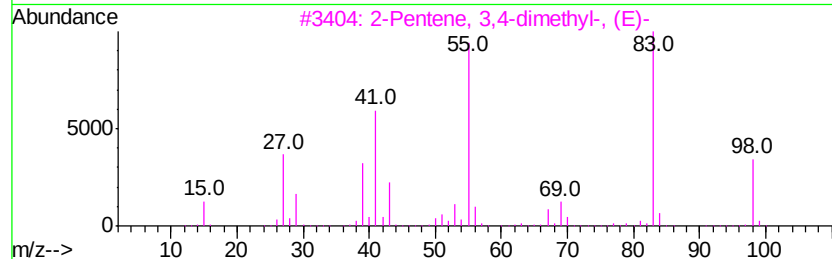
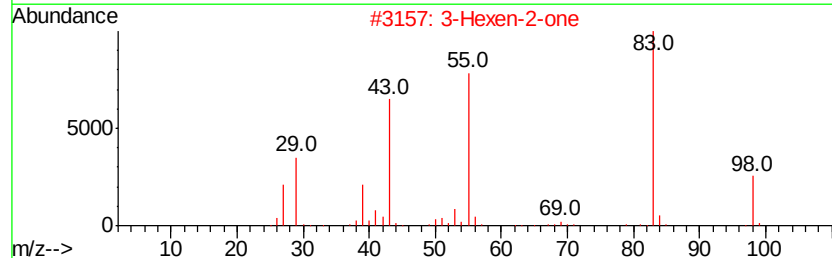
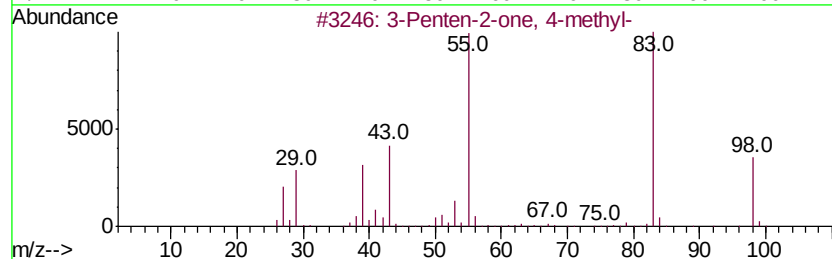
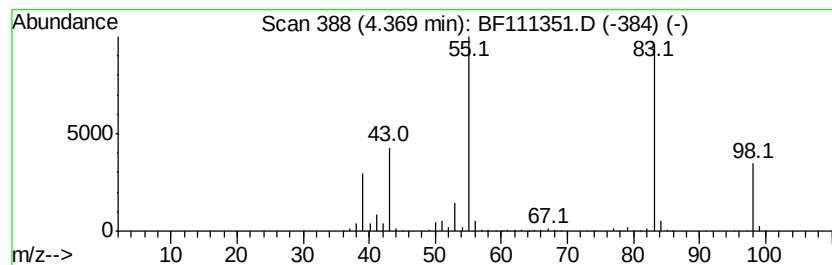
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 3-Penten-2-one, 4-methyl- Concentration Rank 13

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 4.37 | 26.24 ng | 1727820 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# | of | Tentative ID                   | MW | MolForm | CAS#        | Qual |
|------|----|--------------------------------|----|---------|-------------|------|
| 1    | 5  | 3-Penten-2-one, 4-methyl-      | 98 | C6H10O  | 000141-79-7 | 91   |
| 2    |    | 3-Hexen-2-one                  | 98 | C6H10O  | 000763-93-9 | 91   |
| 3    |    | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14   | 004914-92-5 | 90   |
| 4    |    | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14   | 004914-91-4 | 86   |
| 5    |    | 2-Pentene, 2,4-dimethyl-       | 98 | C7H14   | 000625-65-0 | 86   |



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ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

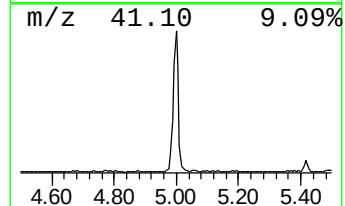
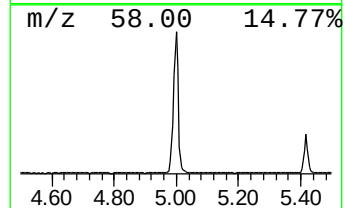
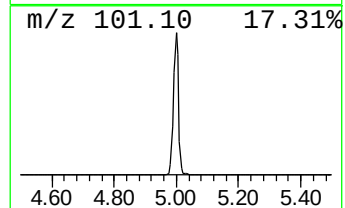
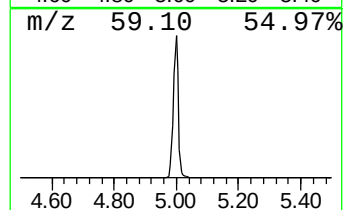
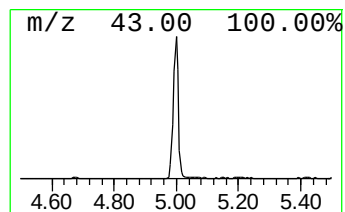
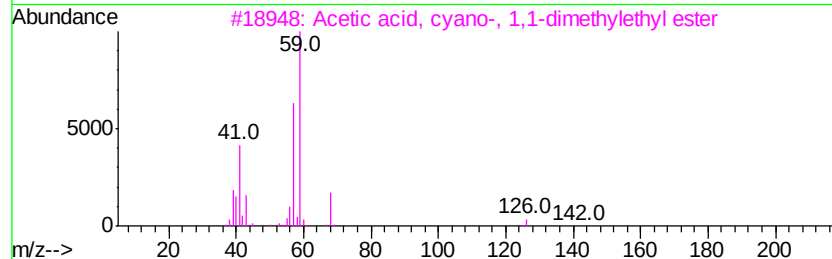
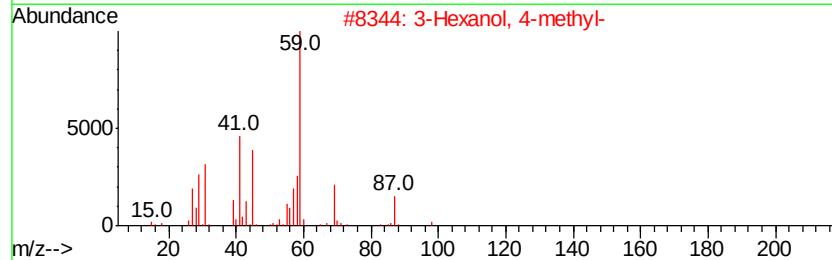
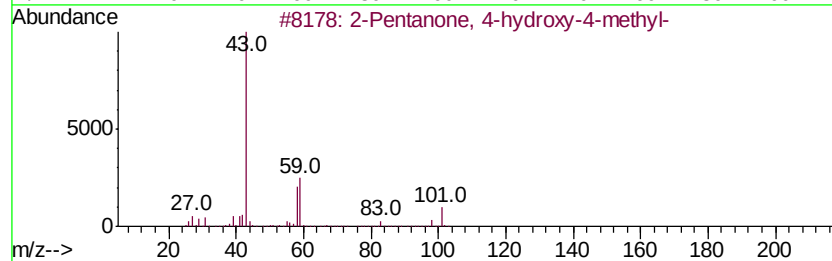
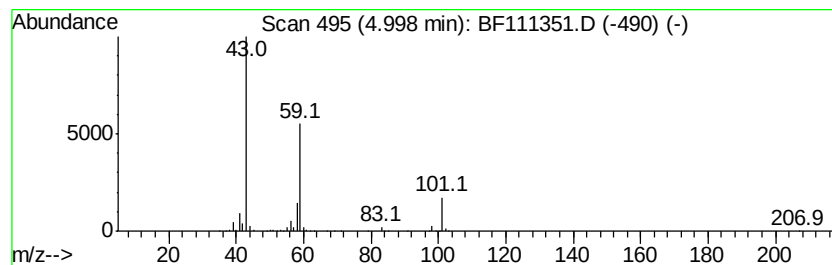
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 12

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 5.00 | 26.32 ng | 1733370 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    | 3-Hexanol, 4-methyl-                 | 116 | C7H16O   | 000615-29-2 | 33   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 32   |
| 4    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |



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Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

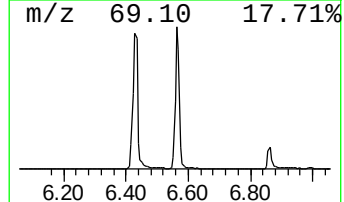
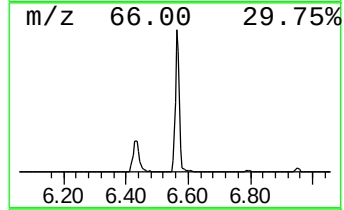
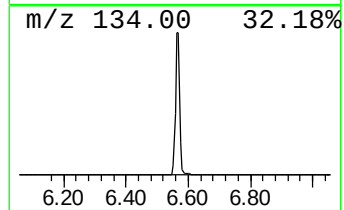
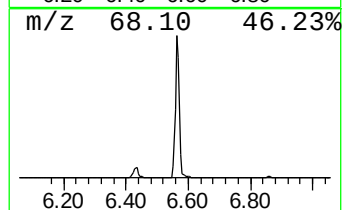
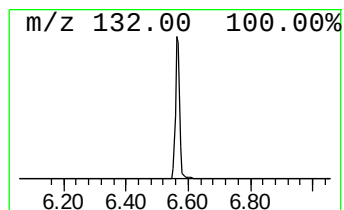
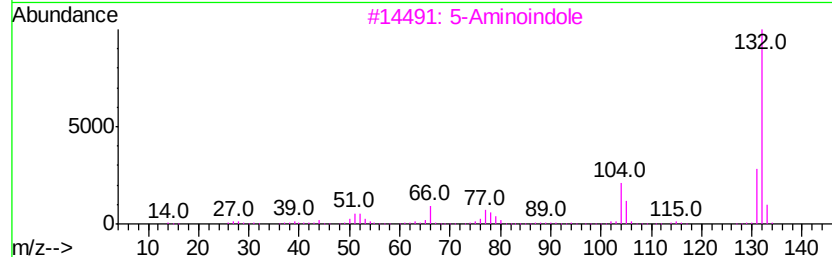
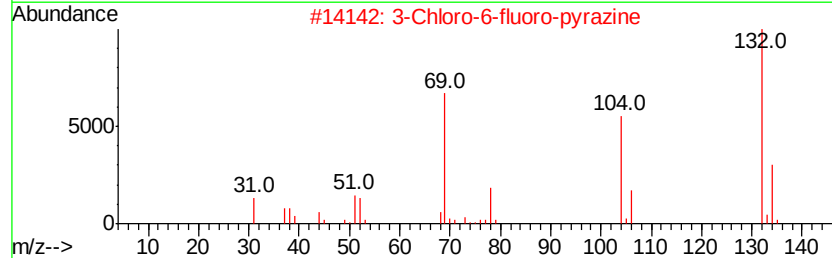
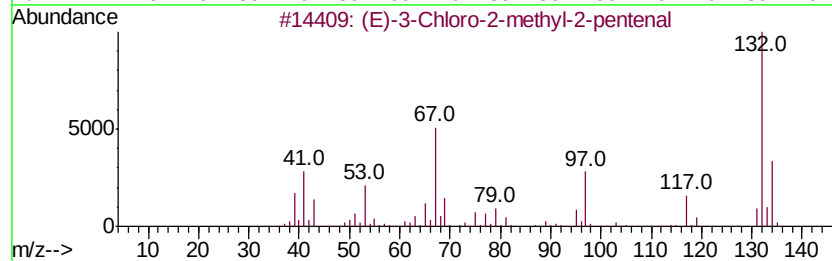
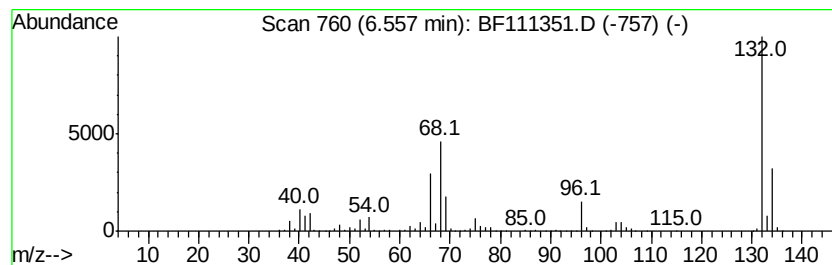
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown6.56 Concentration Rank 9

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.56 | 59.23 ng | 3900460 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 27   |
| 2    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Amphetaminil                     | 250 | C17H18N2  | 017590-01-1  | 10   |
| 5    |    | 1,3,5-Trifluorobenzene           | 132 | C6H3F3    | 000372-38-3  | 9    |



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ALS Vial : 29 Sample Multiplier: 1

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
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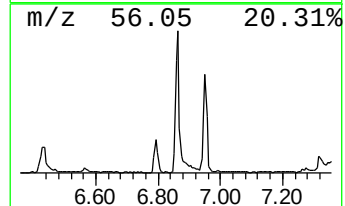
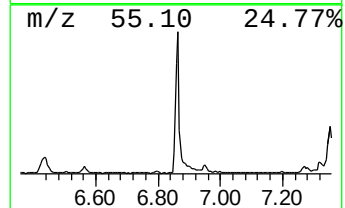
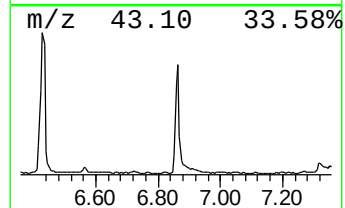
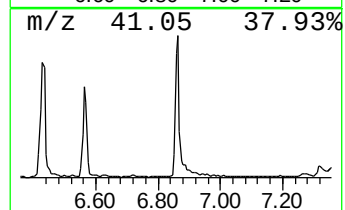
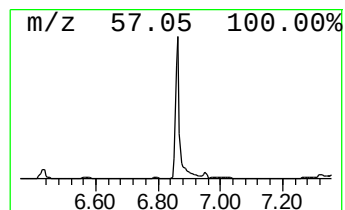
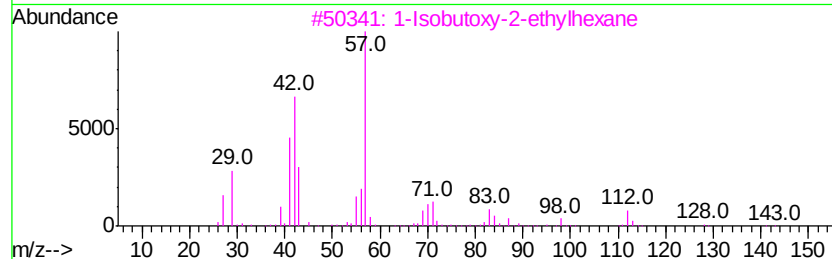
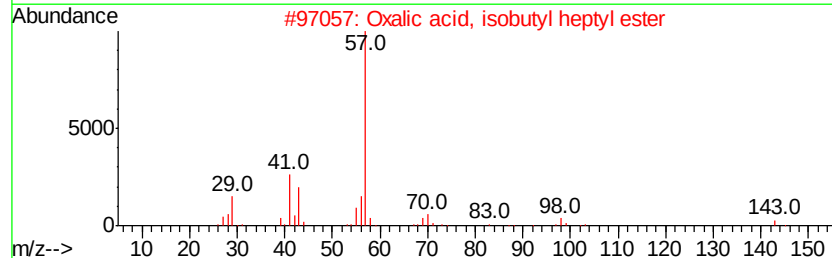
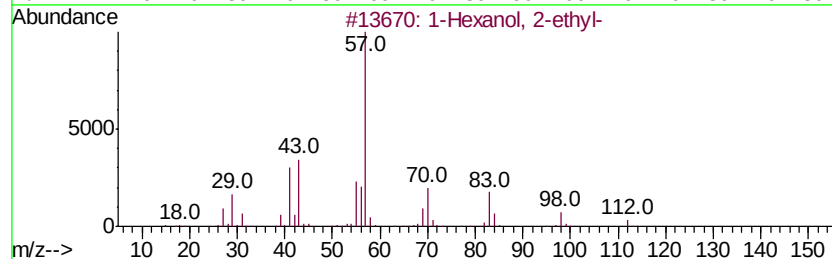
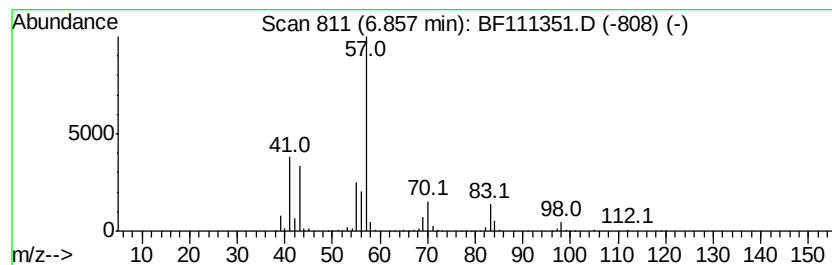
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 1-Hexanol, 2-ethyl- Concentration Rank 14

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.86 | 17.80 ng | 1172070 | 1,4-Dichlorobenzene-d4 | 6.79 |

| Hit# of | 5                                  | Tentative ID | MW       | MolForm      | CAS# | Qual |
|---------|------------------------------------|--------------|----------|--------------|------|------|
| 1       | 1-Hexanol, 2-ethyl-                | 130          | C8H18O   | 000104-76-7  | 83   |      |
| 2       | Oxalic acid, isobutyl heptyl ester | 244          | C13H24O4 | 1000309-37-2 | 59   |      |
| 3       | 1-Isobutoxy-2-ethylhexane          | 186          | C12H26O  | 1000139-90-3 | 56   |      |
| 4       | 1-Hexene, 5,5-dimethyl-            | 112          | C8H16    | 007116-86-1  | 53   |      |
| 5       | Heptane, 2,3,6-trimethyl-          | 142          | C10H22   | 004032-93-3  | 50   |      |



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ALS Vial : 29 Sample Multiplier: 1

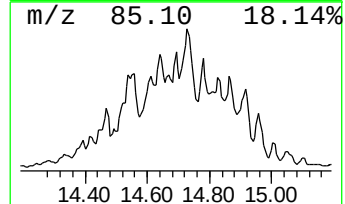
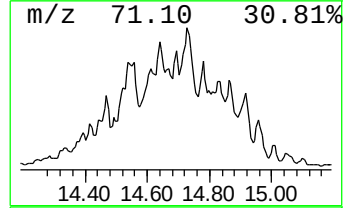
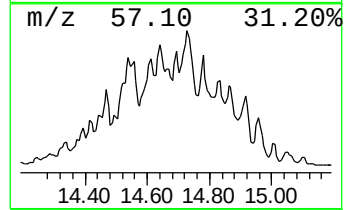
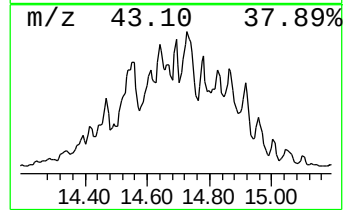
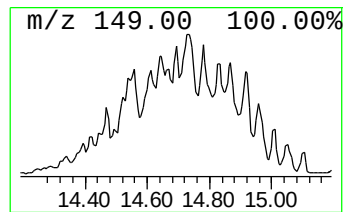
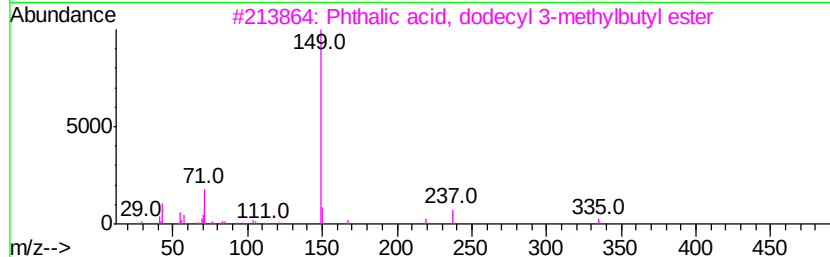
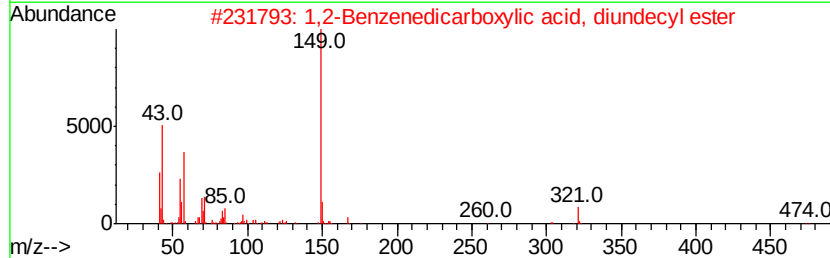
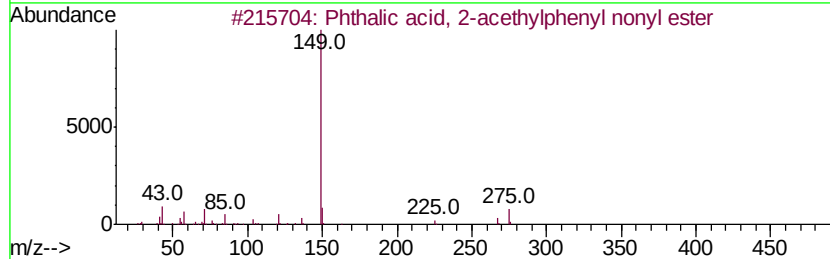
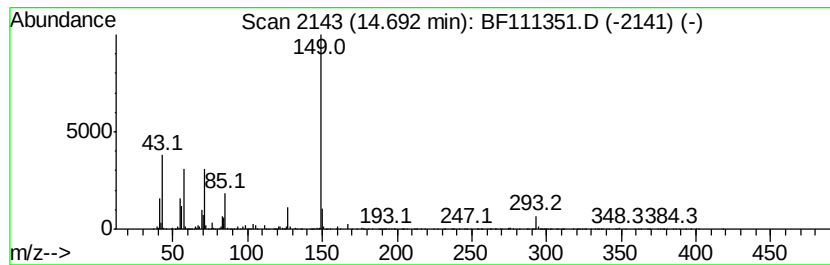
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BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 Phthalic acid, 2-acethylphe... Concentration Rank 6

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.     |              |      |
|---------|----------|-------------------------------------|------------------|----------|--------------|------|
| 14.69   | 86.47 ng | 3043190                             | Perylene-d12     | 15.40    |              |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm  | CAS#         | Qual |
| 1       |          | Phthalic acid, 2-acethylphenyl n... | 410              | C25H30O5 | 1000315-82-0 | 72   |
| 2       |          | 1,2-Benzenedicarboxylic acid, di... | 474              | C30H50O4 | 003648-20-2  | 59   |
| 3       |          | Phthalic acid, dodecyl 3-methylb... | 404              | C25H40O4 | 1000356-81-3 | 59   |
| 4       |          | Phthalic acid, hexyl tetradecyl ... | 446              | C28H46O4 | 1000308-91-4 | 59   |
| 5       |          | Phthalic acid, hexadecyl 3-methy... | 460              | C29H48O4 | 1000356-81-7 | 59   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111351.D  
Acq On : 13 Dec 2018 5:18  
Operator : JU/SJ  
Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

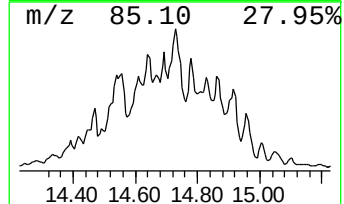
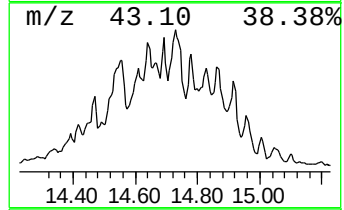
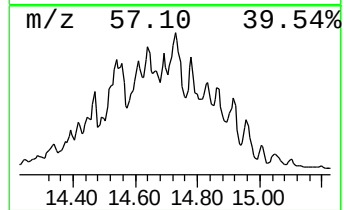
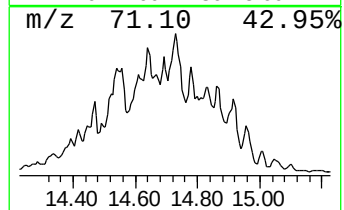
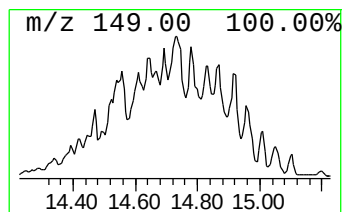
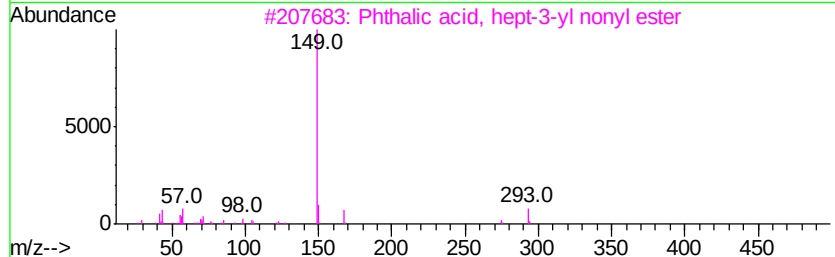
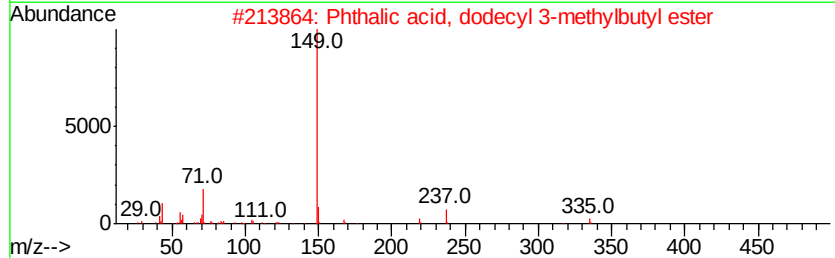
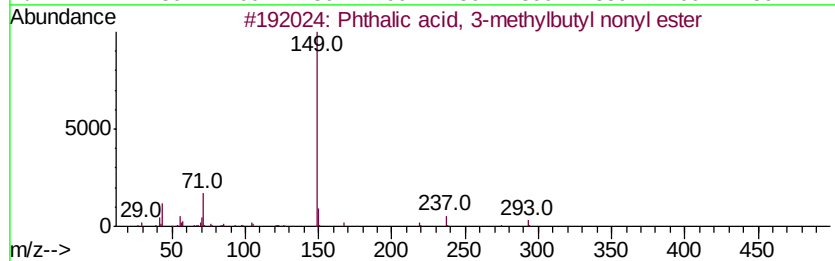
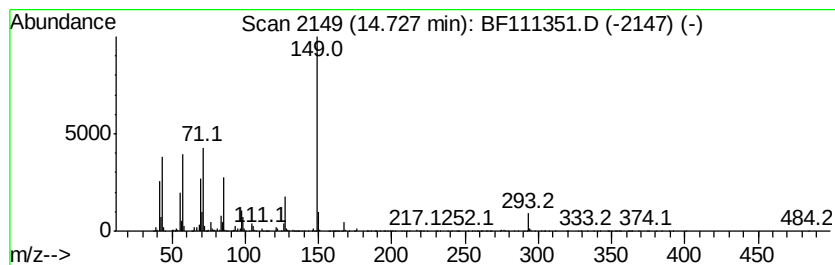
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ClientSampleId :  
RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 7 Phthalic acid, 3-methylbuty... Concentration Rank 1

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 14.73   | 207.73 ng                           | 7310500      | Perylene-d12     | 15.40        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | Phthalic acid, 3-methylbutyl non... | 362          | C22H34O4         | 1000356-81-0 | 59   |      |
| 2       | Phthalic acid, dodecyl 3-methylb... | 404          | C25H40O4         | 1000356-81-3 | 53   |      |
| 3       | Phthalic acid, hept-3-yl nonyl e... | 390          | C24H38O4         | 1000356-99-3 | 47   |      |
| 4       | Phthalic acid, hexyl 2-methylbut... | 320          | C19H28O4         | 1000322-81-4 | 43   |      |
| 5       | Phthalic acid, cyclohexylmethyl ... | 346          | C21H30O4         | 1000309-06-0 | 43   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111351.D  
Acq On : 13 Dec 2018 5:18  
Operator : JU/SJ  
Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

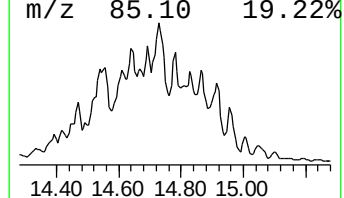
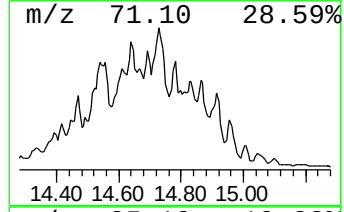
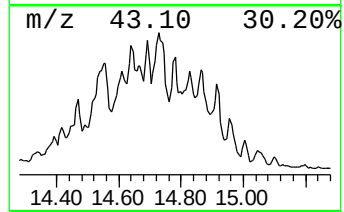
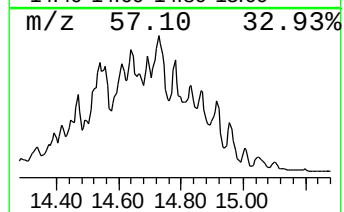
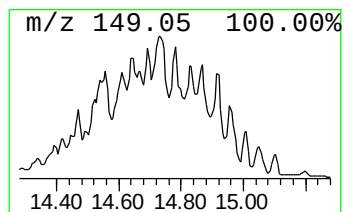
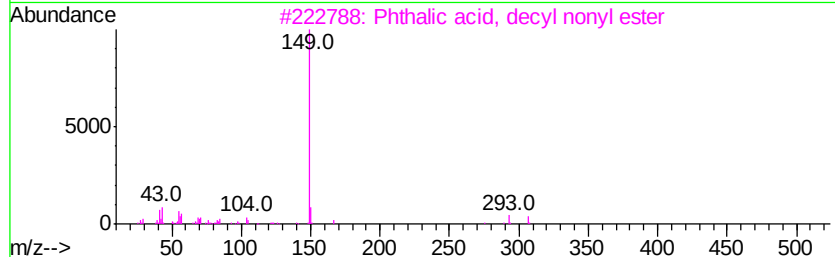
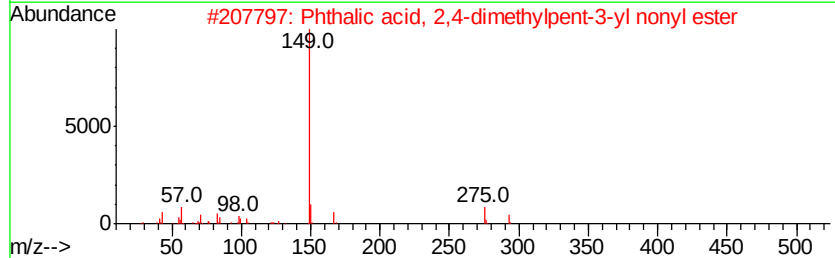
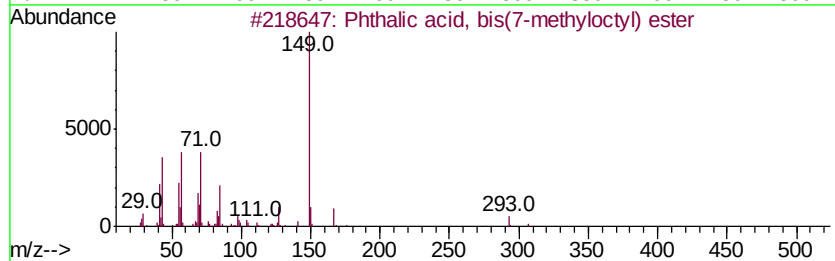
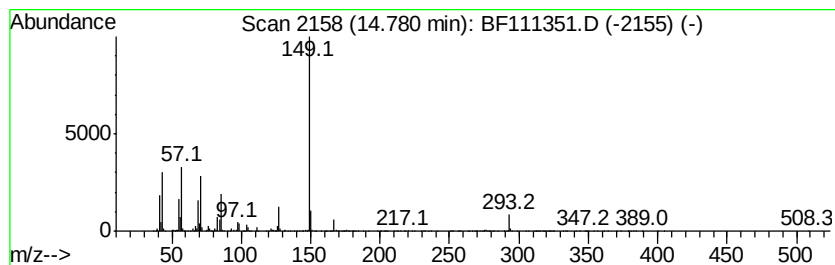
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ClientSampleId :  
RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Phthalic acid, bis(7-methyl... Concentration Rank 2

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.         |      |      |
|---------|-------------------------------------|--------------|------------------|--------------|------|------|
| 14.78   | 140.66 ng                           | 4949970      | Perylene-d12     | 15.40        |      |      |
| Hit# of | 5                                   | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | Phthalic acid, bis(7-methyloctyl... | 418          | C26H42O4         | 020548-62-3  | 58   |      |
| 2       | Phthalic acid, 2,4-dimethylpent-... | 390          | C24H38O4         | 1000356-84-8 | 53   |      |
| 3       | Phthalic acid, decyl nonyl ester    | 432          | C27H44O4         | 1000308-89-8 | 50   |      |
| 4       | Phthalic acid, dodecyl 2-(2-meth... | 476          | C29H48O5         | 1000314-93-6 | 50   |      |
| 5       | Phthalic acid, 2-ethylbutyl nony... | 376          | C23H36O4         | 1000356-89-4 | 50   |      |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111351.D  
Acq On : 13 Dec 2018 5:18  
Operator : JU/SJ  
Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

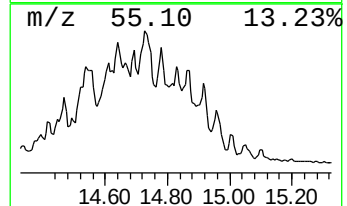
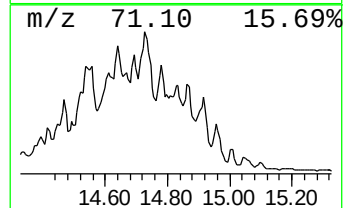
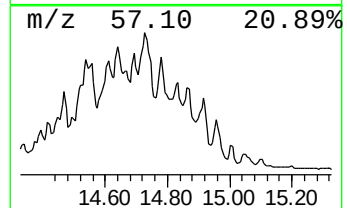
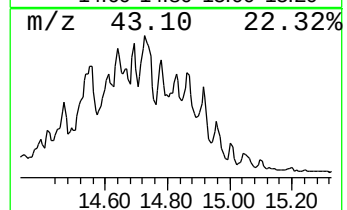
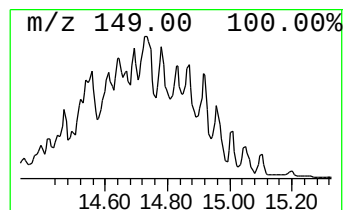
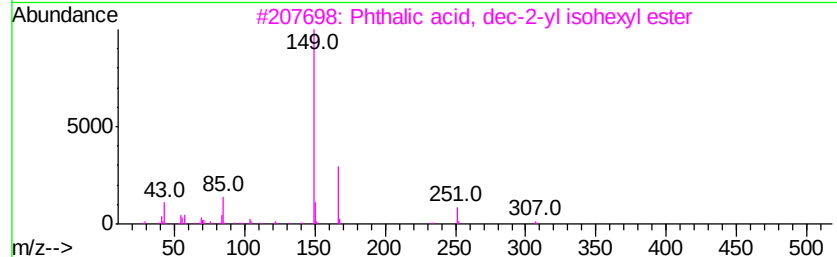
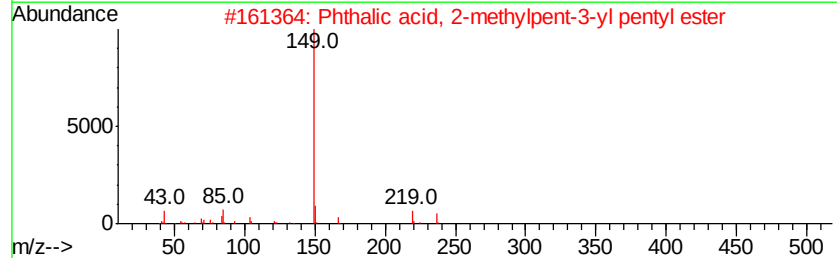
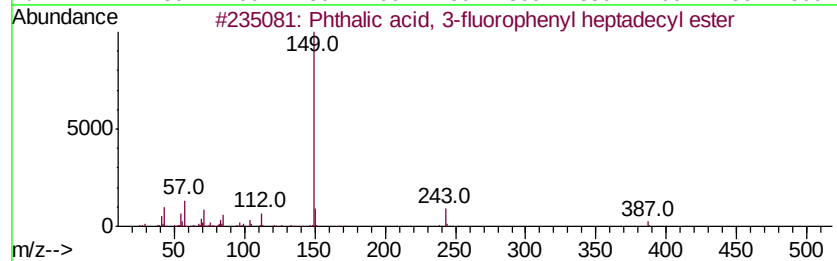
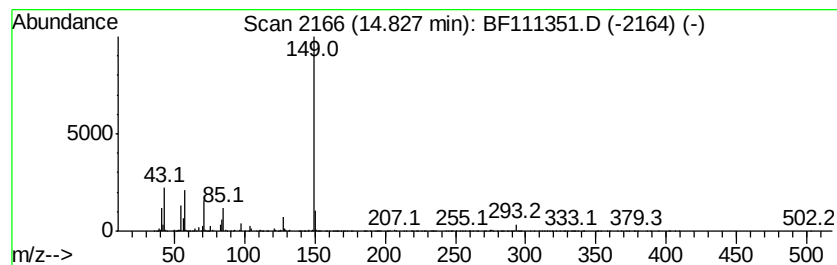
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Phthalic acid, 3-fluorophen... Concentration Rank 4

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 14.83 | 115.45 ng | 4062780 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Phthalic acid, 3-fluorophenyl he... | 498 | C31H43F04 | 1000356-66-2 | 64   |
| 2    |    | Phthalic acid, 2-methylpent-3-yl... | 320 | C19H28O4  | 1000356-90-9 | 64   |
| 3    |    | Phthalic acid, dec-2-yl isohexyl... | 390 | C24H38O4  | 1000356-94-1 | 64   |
| 4    |    | Phthalic acid, 4-methylpent-2-yl... | 376 | C23H36O4  | 1000356-87-9 | 64   |
| 5    |    | Phthalic acid, 2-ethylbutyl hept... | 348 | C21H32O4  | 1000356-89-2 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111351.D  
Acq On : 13 Dec 2018 5:18  
Operator : JU/SJ  
Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

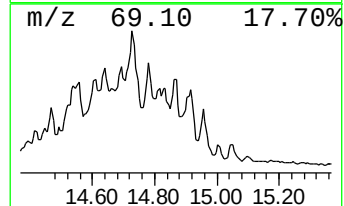
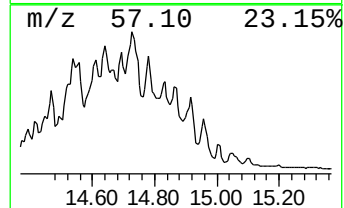
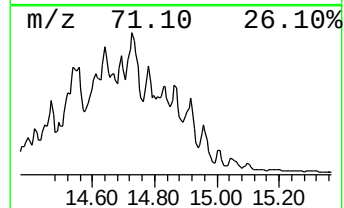
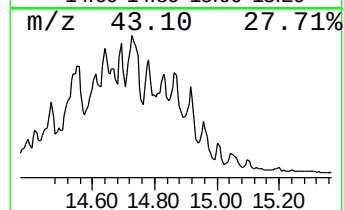
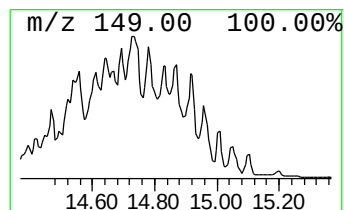
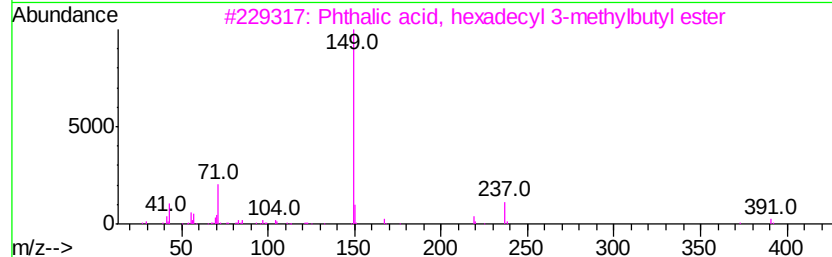
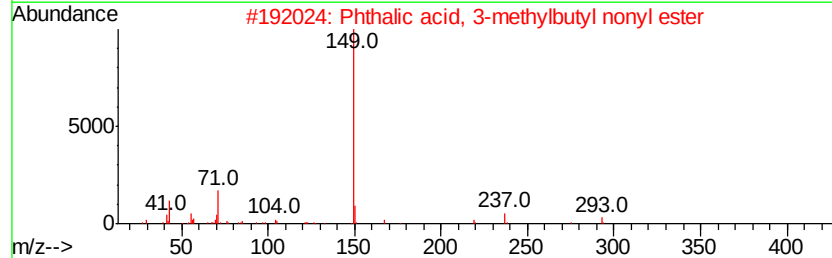
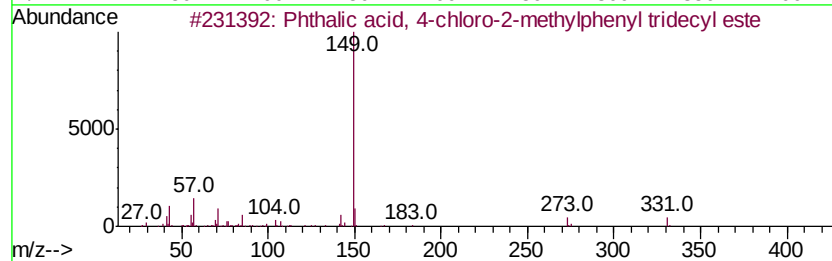
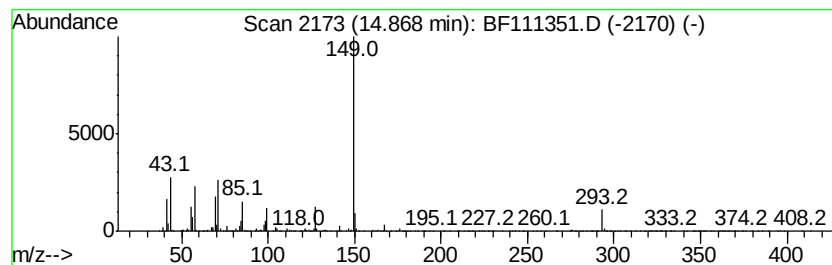
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Phthalic acid, 4-chloro-2-m... Concentration Rank 3

| R.T.  | EstConc   | Area    | Relative to ISTD | R.T.  |
|-------|-----------|---------|------------------|-------|
| 14.87 | 126.41 ng | 4448400 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Phthalic acid, 4-chloro-2-methyl... | 472 | C28H37ClO4 | 1000356-38-1 | 59   |
| 2    |    | Phthalic acid, 3-methylbutyl non... | 362 | C22H34O4   | 1000356-81-0 | 53   |
| 3    |    | Phthalic acid, hexadecyl 3-methv... | 460 | C29H48O4   | 1000356-81-7 | 53   |
| 4    |    | Phthalic acid, 3-methylbutyl oct... | 488 | C31H52O4   | 1000356-81-9 | 53   |
| 5    |    | Phthalic acid, 3-methylbut-3-eny... | 360 | C22H32O4   | 1000357-10-7 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111351.D  
Acq On : 13 Dec 2018 5:18  
Operator : JU/SJ  
Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

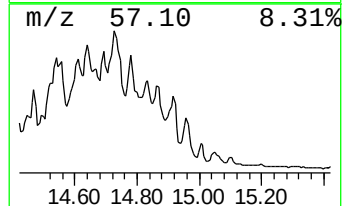
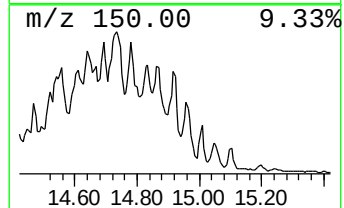
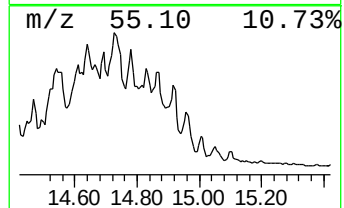
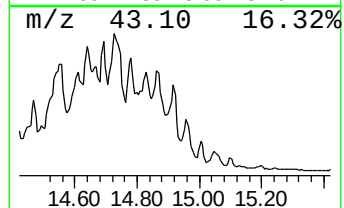
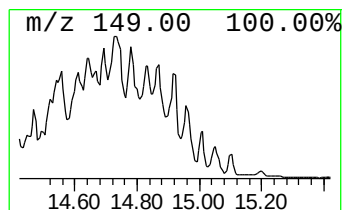
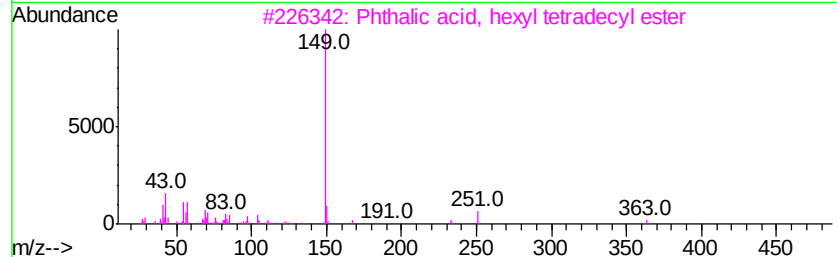
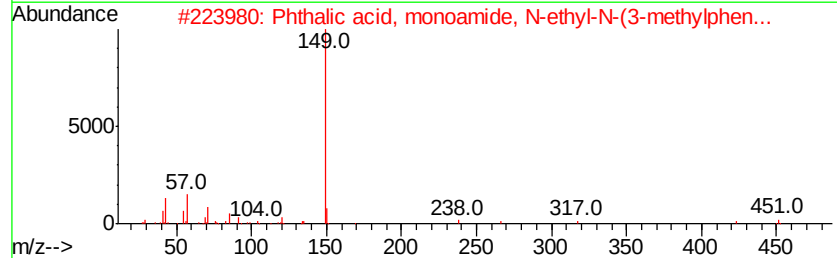
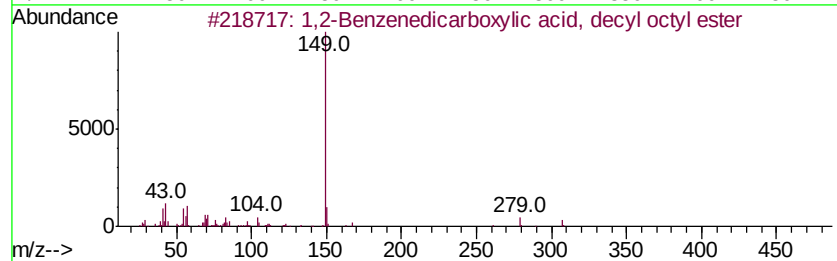
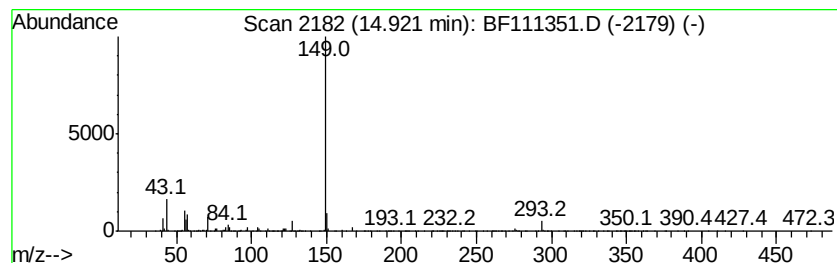
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 1,2-Benzenedicarboxylic aci... Concentration Rank 7

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 14.92 | 83.97 ng | 2955000 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1,2-Benzenedicarboxylic acid, de... | 418 | C26H42O4  | 000119-07-3  | 72   |
| 2    |    | Phthalic acid, monoamide, N-ethy... | 437 | C28H39NO3 | 1000309-86-5 | 72   |
| 3    |    | Phthalic acid, hexyl tetradecyl ... | 446 | C28H46O4  | 1000308-91-4 | 64   |
| 4    |    | Phthalic acid, decyl 2,4-dimethy... | 404 | C25H40O4  | 1000356-84-9 | 64   |
| 5    |    | Phthalic acid, heptadecyl 3-meth... | 474 | C30H50O4  | 1000356-81-8 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111351.D  
Acq On : 13 Dec 2018 5:18  
Operator : JU/SJ  
Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

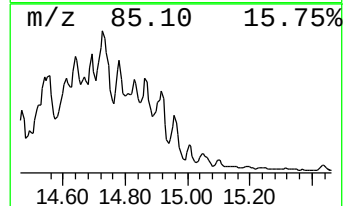
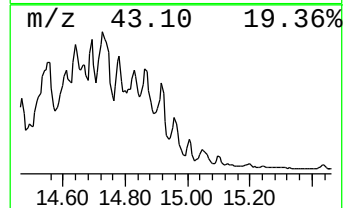
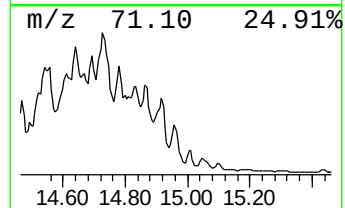
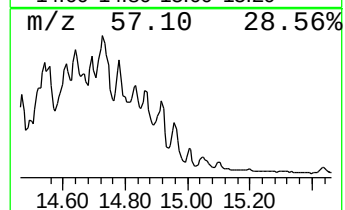
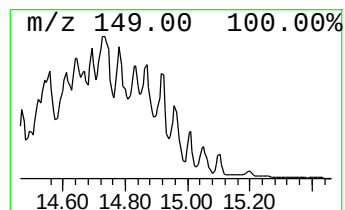
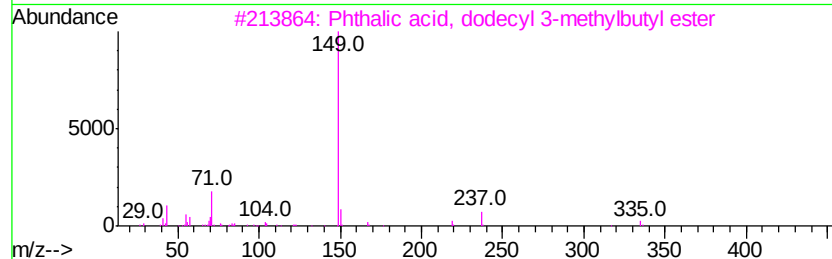
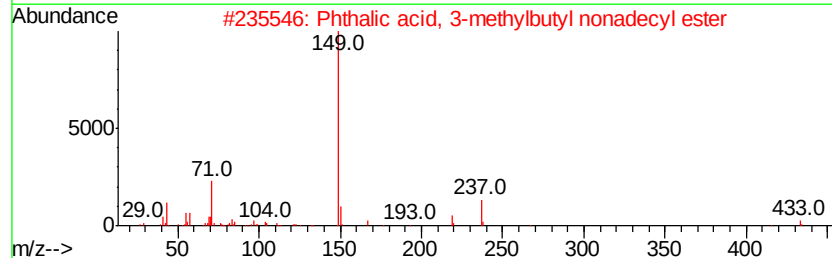
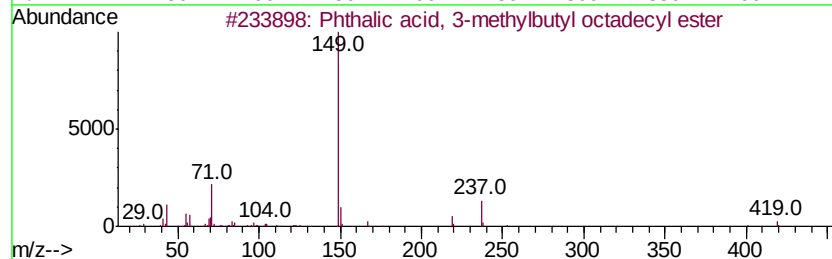
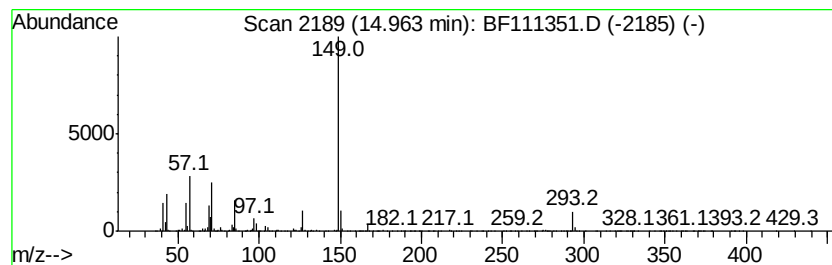
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Phthalic acid, 3-methylbuty... Concentration Rank 5

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 14.96 | 90.00 ng | 3167290 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | Phthalic acid, 3-methylbutyl oct... | 488 | C31H52O4 | 1000356-81-9 | 59   |
| 2    |    | Phthalic acid, 3-methylbutyl non... | 502 | C32H54O4 | 1000356-82-0 | 59   |
| 3    |    | Phthalic acid, dodecyl 3-methylb... | 404 | C25H40O4 | 1000356-81-3 | 59   |
| 4    |    | Phthalic acid, 2-methylpent-3-yl... | 362 | C22H34O4 | 1000356-91-3 | 59   |
| 5    |    | Phthalic acid, 3-(2-methoxyethyl... | 448 | C27H44O5 | 1000315-39-9 | 53   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111351.D  
Acq On : 13 Dec 2018 5:18  
Operator : JU/SJ  
Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

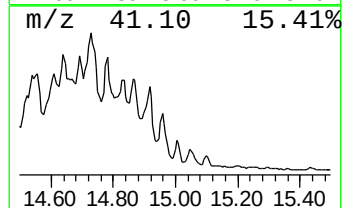
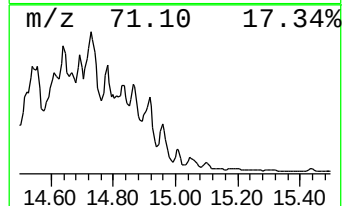
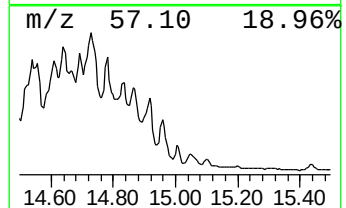
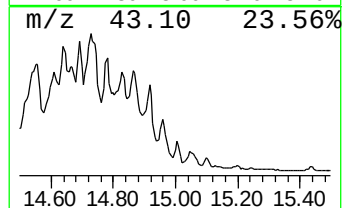
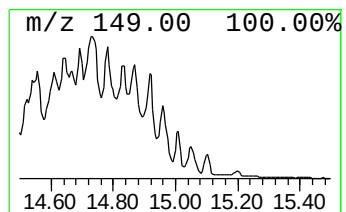
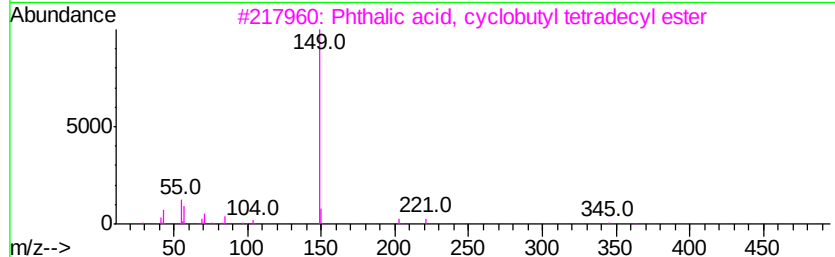
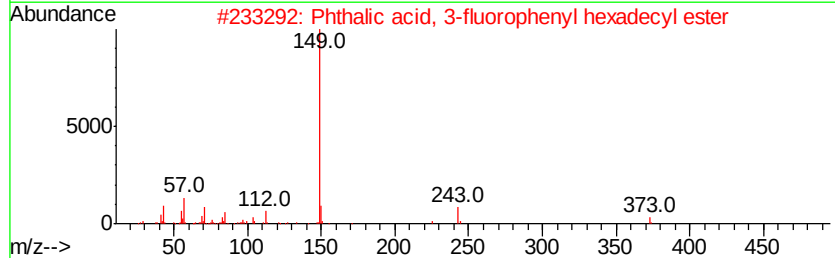
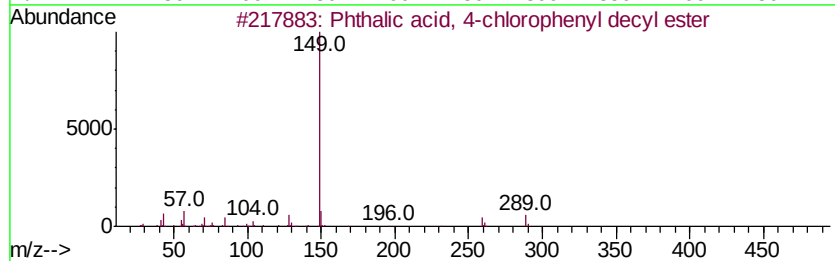
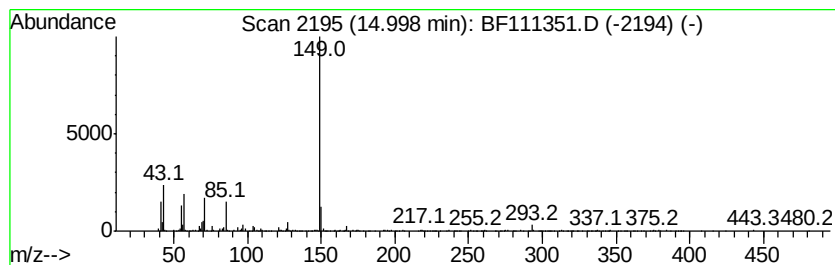
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Phthalic acid, 4-chlorophen... Concentration Rank 11

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 15.00 | 31.98 ng | 1125450 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Phthalic acid, 4-chlorophenyl de... | 416 | C24H29ClO4  | 1000315-25-4 | 72   |
| 2    |    | Phthalic acid, 3-fluorophenyl he... | 484 | C30H41FO4   | 1000356-66-4 | 72   |
| 3    |    | Phthalic acid, cyclobutyl tetrad... | 416 | C26H40O4    | 1000314-90-9 | 72   |
| 4    |    | Phthalic acid, 3,4-dichloropheny... | 436 | C23H26Cl2O4 | 1000315-27-8 | 72   |
| 5    |    | Phthalic acid, dodecyl nonyl ester  | 460 | C29H48O4    | 1000308-92-6 | 64   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\  
Data File : BF111351.D  
Acq On : 13 Dec 2018 5:18  
Operator : JU/SJ  
Sample : J6342-01  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

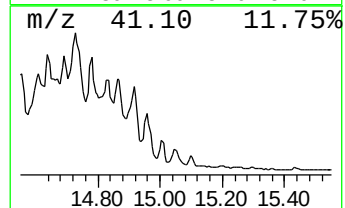
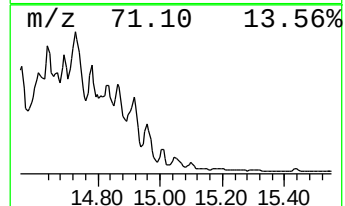
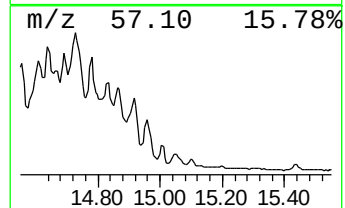
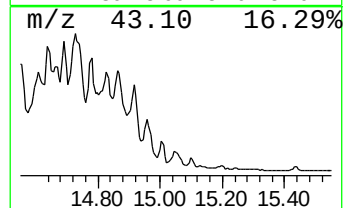
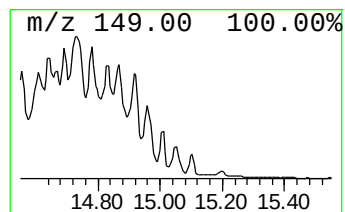
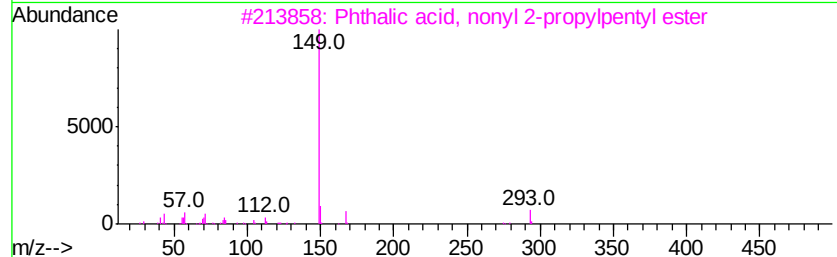
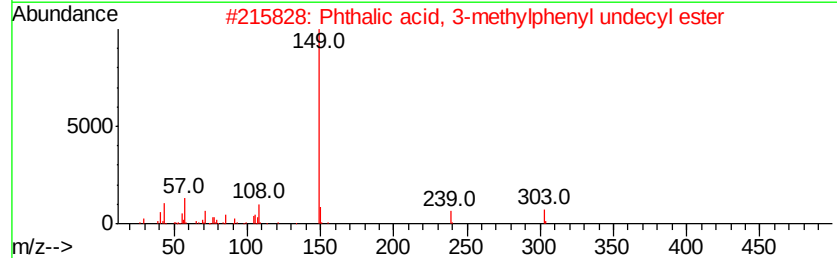
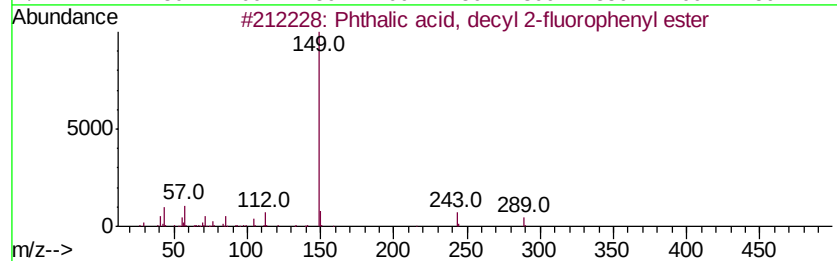
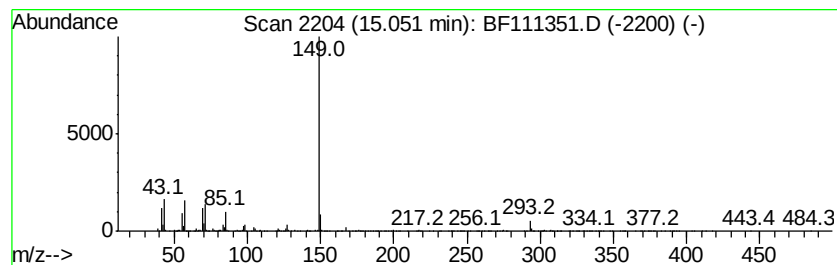
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Phthalic acid, decyl 2-fluo... Concentration Rank 10

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 15.05 | 36.37 ng | 1279770 | Perylene-d12     | 15.40 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Phthalic acid, decyl 2-fluorophe... | 400 | C24H29F04  | 1000356-36-7 | 72   |
| 2    |    | Phthalic acid, 3-methylphenyl un... | 410 | C26H3404   | 1000314-86-4 | 72   |
| 3    |    | Phthalic acid, nonyl 2-propylpen... | 404 | C25H4004   | 1000377-92-5 | 72   |
| 4    |    | Phthalic acid, decyl 3,5-difluor... | 418 | C24H28F204 | 1000314-96-7 | 72   |
| 5    |    | Phthalic acid, monoamide, N-ethy... | 437 | C28H39N03  | 1000309-86-5 | 72   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF121218\  
 Data File : BF111351.D  
 Acq On : 13 Dec 2018 5:18  
 Operator : JU/SJ  
 Sample : J6342-01  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RICH-REC-ROAD-STONE-8

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF121218.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 |
| 3-Penten-2-one, 4... | 4.37  | 26.2    | ng    | 1727820  | 1                     | 6.79  | 1317130 | 20.0 |
| 2-Pentanone, 4-hy... | 5.00  | 26.3    | ng    | 1733370  | 1                     | 6.79  | 1317130 | 20.0 |
| unknown6.56          | 6.56  | 59.2    | ng    | 3900460  | 1                     | 6.79  | 1317130 | 20.0 |
| 1-Hexanol, 2-ethyl-  | 6.86  | 17.8    | ng    | 1172070  | 1                     | 6.79  | 1317130 | 20.0 |
| Phthalic acid, 2-... | 14.69 | 86.5    | ng    | 3043190  | 6                     | 15.40 | 703833  | 20.0 |
| Phthalic acid, 3-... | 14.73 | 207.7   | ng    | 7310500  | 6                     | 15.40 | 703833  | 20.0 |
| Phthalic acid, bi... | 14.78 | 140.7   | ng    | 4949970  | 6                     | 15.40 | 703833  | 20.0 |
| Phthalic acid, 3-... | 14.83 | 115.5   | ng    | 4062780  | 6                     | 15.40 | 703833  | 20.0 |
| Phthalic acid, 4-... | 14.87 | 126.4   | ng    | 4448400  | 6                     | 15.40 | 703833  | 20.0 |
| 1,2-Benzenedicarb... | 14.92 | 84.0    | ng    | 2955000  | 6                     | 15.40 | 703833  | 20.0 |
| Phthalic acid, 3-... | 14.96 | 90.0    | ng    | 3167290  | 6                     | 15.40 | 703833  | 20.0 |
| Phthalic acid, 4-... | 15.00 | 32.0    | ng    | 1125450  | 6                     | 15.40 | 703833  | 20.0 |
| Phthalic acid, de... | 15.05 | 36.4    | ng    | 1279770  | 6                     | 15.40 | 703833  | 20.0 |