

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060119\  
 Data File : BG041009.D  
 Acq On : 1 Jun 2019 12:59  
 Operator : HP/JU  
 Sample : K3104-01  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 251810

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\_G\METHODS\8270-BG052919.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         | 3.131       | 3             | 7           | 15           | rVV      | 267774         | 502973        | 11.95%          | 2.297%        |
| 2         | 3.207       | 15            | 20          | 34           | rVB      | 1184255        | 1765149       | 41.95%          | 8.060%        |
| 3         | 5.651       | 430           | 436         | 447          | rBV      | 329319         | 548300        | 13.03%          | 2.504%        |
| 4         | 7.261       | 703           | 710         | 718          | rBV      | 226183         | 392367        | 9.32%           | 1.792%        |
| 5         | 7.643       | 768           | 775         | 792          | rBV      | 624043         | 1072216       | 25.48%          | 4.896%        |
| 6         | 8.119       | 847           | 856         | 865          | rBV      | 228833         | 395995        | 9.41%           | 1.808%        |
| 7         | 8.442       | 901           | 911         | 920          | rBV      | 842425         | 1440619       | 34.24%          | 6.578%        |
| 8         | 9.300       | 1049          | 1057        | 1065         | rBV      | 725479         | 1321447       | 31.41%          | 6.034%        |
| 9         | 10.945      | 1328          | 1337        | 1348         | rBV      | 299410         | 555391        | 13.20%          | 2.536%        |
| 10        | 13.371      | 1740          | 1750        | 1760         | rBV      | 2066002        | 3192364       | 75.87%          | 14.577%       |
| 11        | 14.194      | 1885          | 1890        | 1895         | rVB      | 120101         | 173924        | 4.13%           | 0.794%        |
| 12        | 14.752      | 1978          | 1985        | 1991         | rVB2     | 489542         | 799999        | 19.01%          | 3.653%        |
| 13        | 15.516      | 2111          | 2115        | 2123         | rBV8     | 32223          | 54248         | 1.29%           | 0.248%        |
| 14        | 16.239      | 2231          | 2238        | 2244         | rBV      | 1048943        | 1683830       | 40.02%          | 7.689%        |
| 15        | 16.433      | 2268          | 2271        | 2277         | rVB4     | 42946          | 60277         | 1.43%           | 0.275%        |
| 16        | 17.496      | 2446          | 2452        | 2457         | rBV2     | 652963         | 975455        | 23.18%          | 4.454%        |
| 17        | 17.749      | 2491          | 2495        | 2502         | rVB      | 136002         | 184998        | 4.40%           | 0.845%        |
| 18        | 18.348      | 2593          | 2597        | 2603         | rVB3     | 98242          | 128204        | 3.05%           | 0.585%        |
| 19        | 20.093      | 2888          | 2894        | 2900         | rBV      | 3146823        | 4207699       | 100.00%         | 19.213%       |
| 20        | 21.380      | 3109          | 3113        | 3124         | rVB      | 36285          | 87074         | 2.07%           | 0.398%        |
| 21        | 21.773      | 3174          | 3180        | 3189         | rVB2     | 684302         | 1135220       | 26.98%          | 5.184%        |
| 22        | 24.077      | 3568          | 3572        | 3580         | rVB8     | 27299          | 54643         | 1.30%           | 0.250%        |
| 23        | 25.111      | 3733          | 3748        | 3760         | rBV2     | 370840         | 1167378       | 27.74%          | 5.331%        |

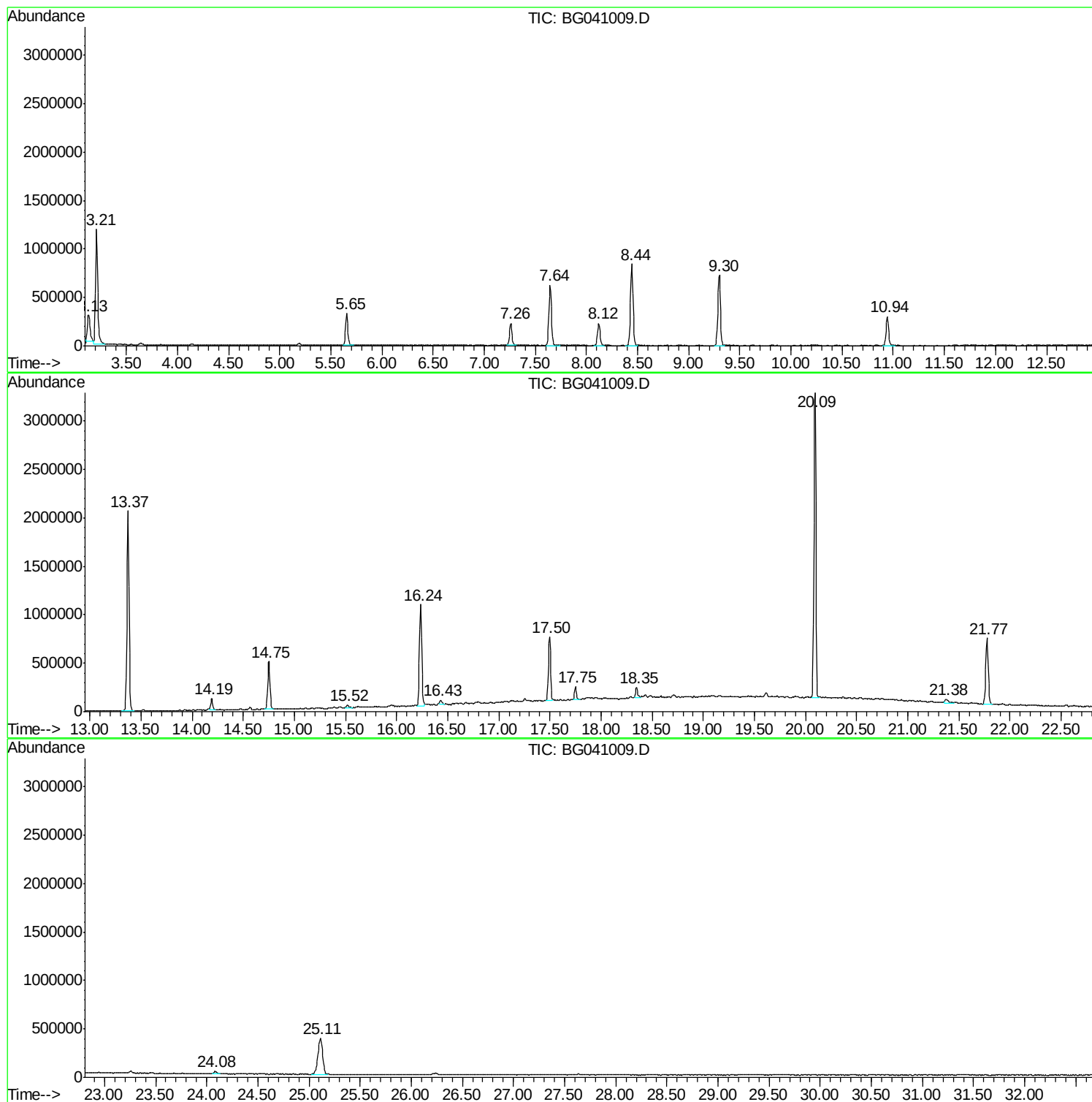
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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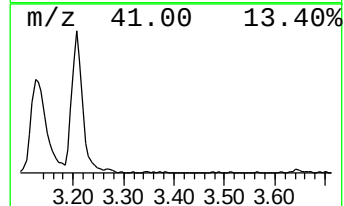
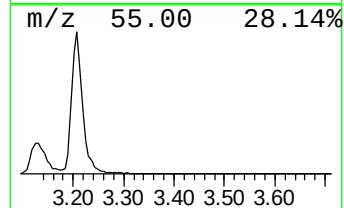
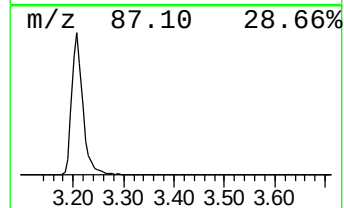
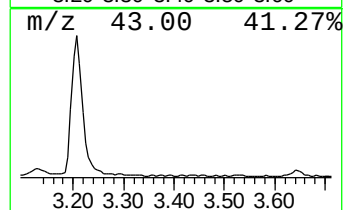
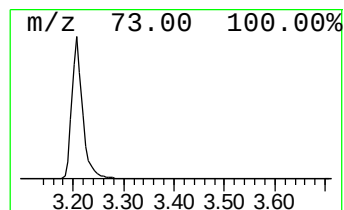
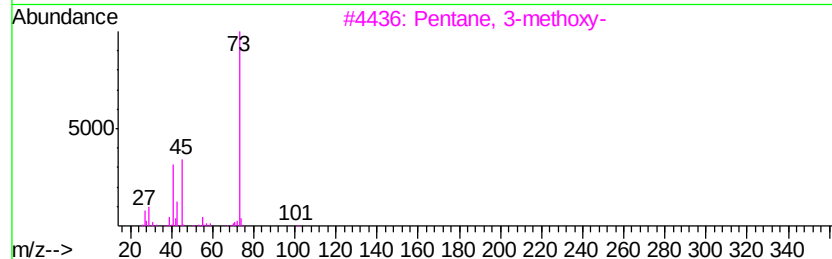
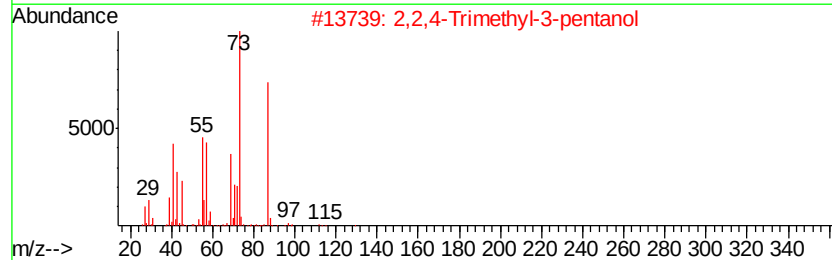
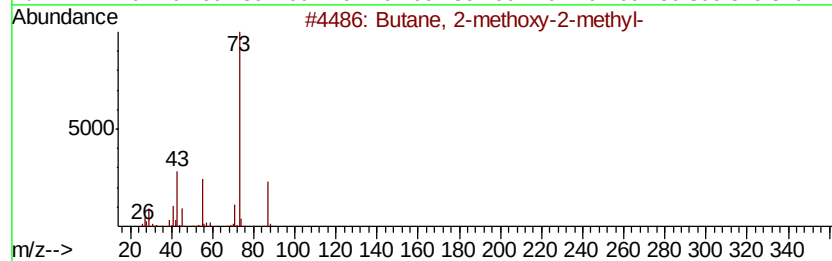
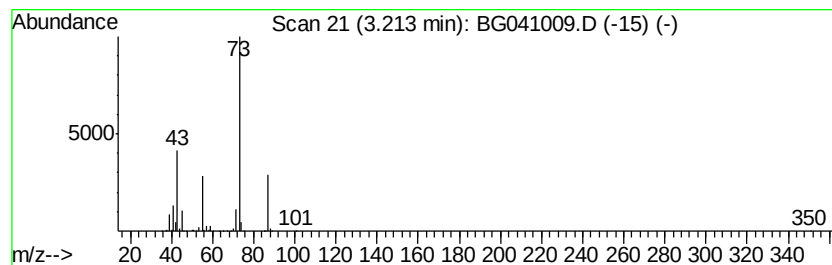
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 3.21 | 89.15 ng | 1765150 | 1,4-Dichlorobenzene-d4 | 8.12 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 74   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 38   |
| 3    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 17   |
| 4    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 9    |
| 5    |    | N-Ethylformamide            | 73  | C3H7NO  | 000627-45-2 | 9    |



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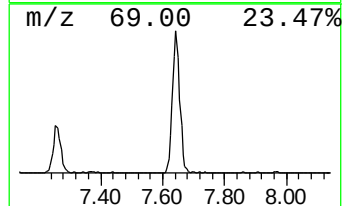
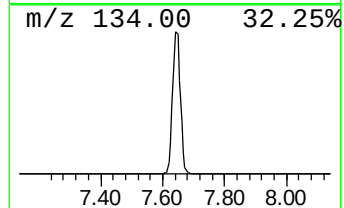
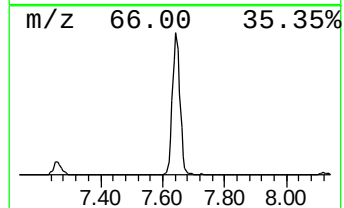
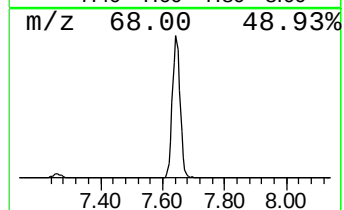
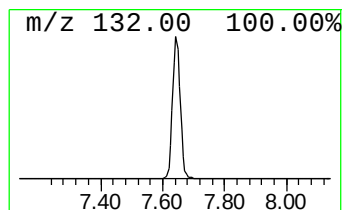
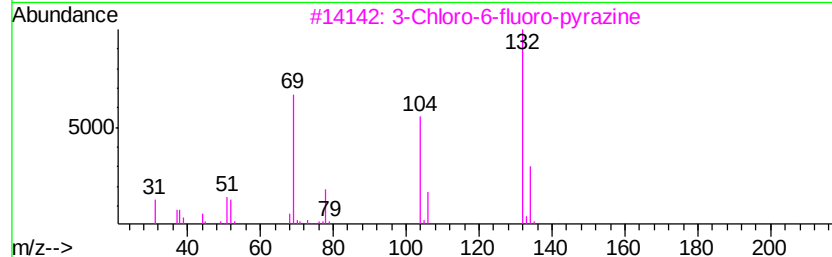
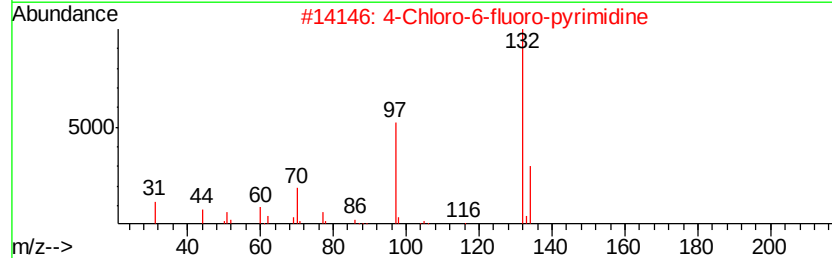
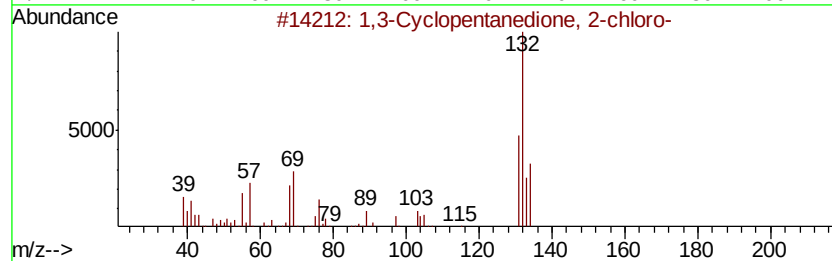
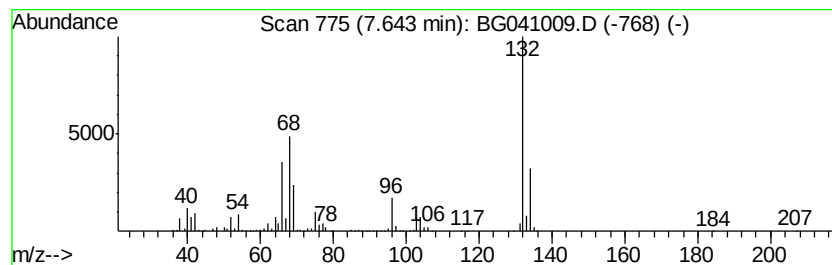
TIC Library : C:\Database\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 unknown7.64 Concentration Rank 3

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 7.64 | 54.15 ng | 1072220 | 1,4-Dichlorobenzene-d4 | 8.12 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2  | 014203-19-1  | 35   |
| 2    |    | 4-Chloro-6-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-01-6  | 27   |
| 3    |    | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 4    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 25   |
| 5    |    | (5-Methyl-2-pyridyl)acetonitrile | 132 | C8H8N2    | 1000241-93-9 | 22   |



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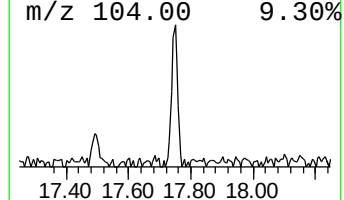
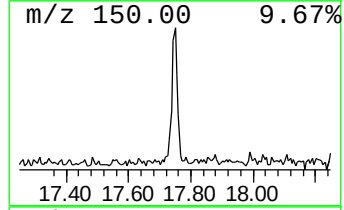
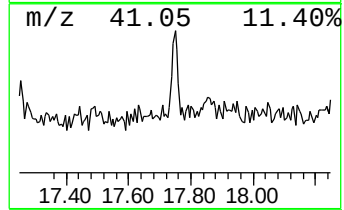
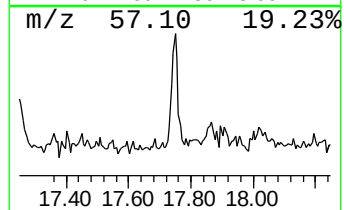
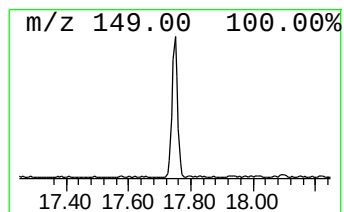
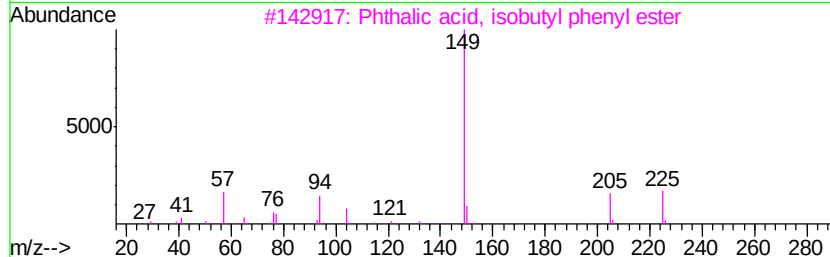
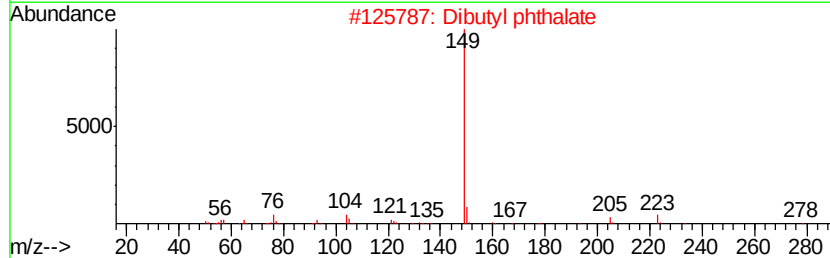
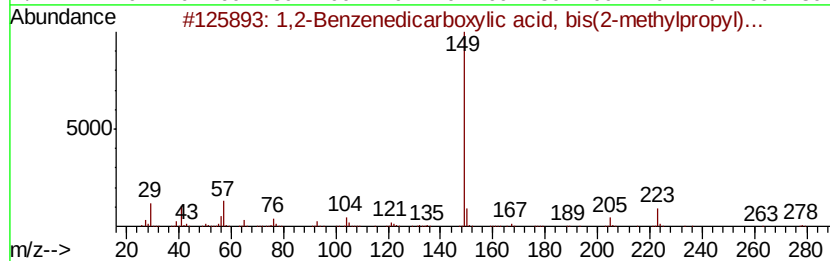
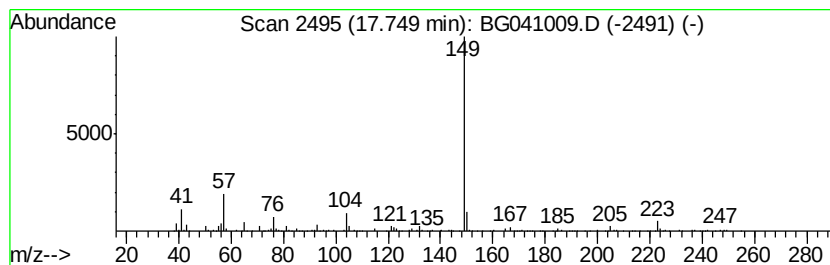
Instrument :  
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ClientSampleId :  
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Peak Number 5 1,2-Benzenedicarboxylic aci... Concentration Rank 5

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 17.75     | 3.79 ng                             | 184998 | Phenanthrene-d10 | 17.50        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 1,2-Benzenedicarboxylic acid, bi... | 278    | C16H22O4         | 000084-69-5  | 86   |
| 2         | Dibutyl phthalate                   | 278    | C16H22O4         | 000084-74-2  | 86   |
| 3         | Phthalic acid, isobutyl phenyl e... | 298    | C18H18O4         | 1000314-88-0 | 72   |
| 4         | Phthalic acid, 2-fluorophenyl pe... | 330    | C19H19FO4        | 1000360-51-4 | 72   |
| 5         | Phthalic acid, 2-isopropoxypheny... | 342    | C20H22O5         | 1000309-82-9 | 72   |



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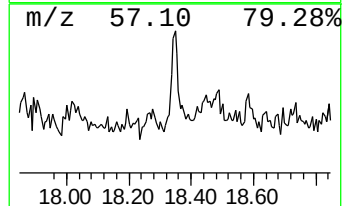
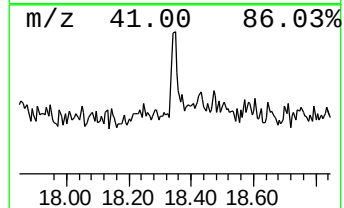
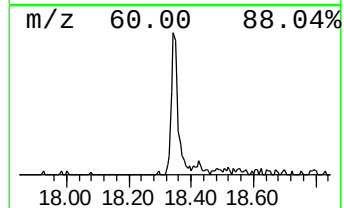
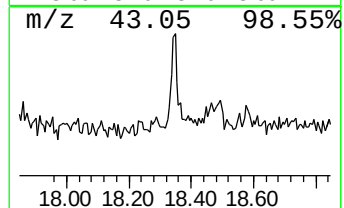
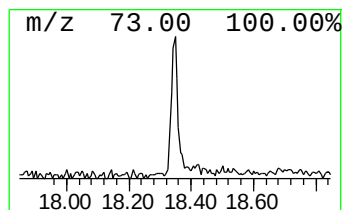
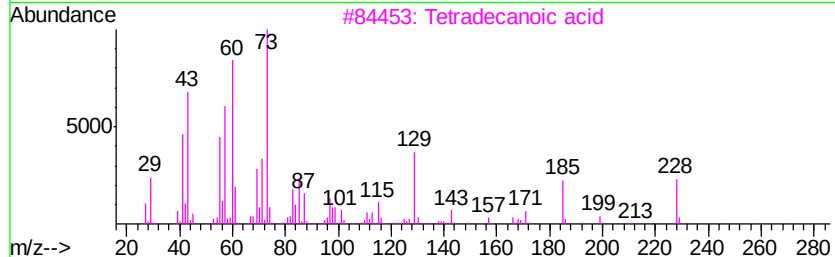
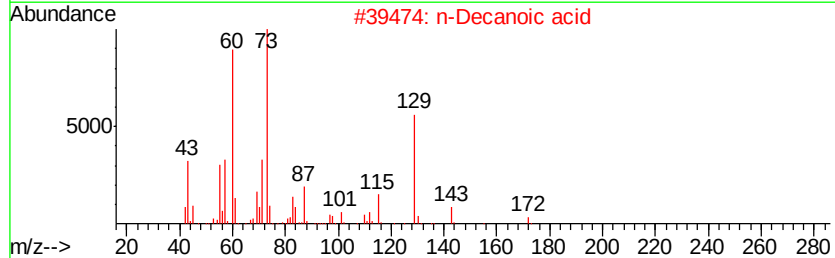
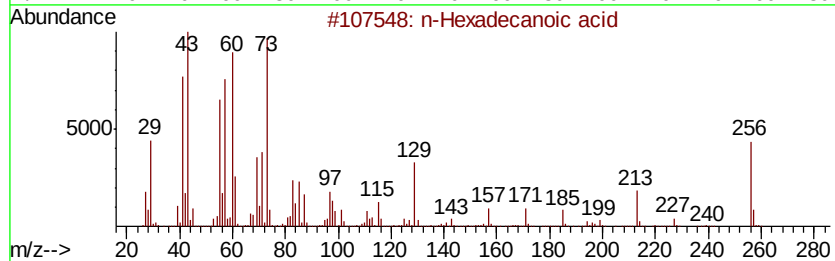
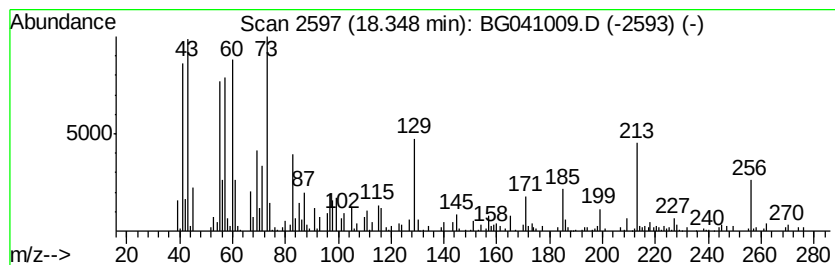
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Peak Number 6 n-Hexadecanoic acid Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 18.35 | 2.63 ng | 128204 | Phenanthrene-d10 | 17.50 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 76   |
| 2    |    | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 55   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 50   |
| 4    |    | Heptadecanoic acid  | 270 | C17H34O2 | 000506-12-7 | 43   |
| 5    |    | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 43   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Butane, 2-methoxy... | 3.21  | 89.2    | ng    | 1765150  | 1                     | 8.12  | 395995 | 20.0 |
| unknown7.64          | 7.64  | 54.1    | ng    | 1072220  | 1                     | 8.12  | 395995 | 20.0 |
| 1,2-Benzenedicarb... | 17.75 | 3.8     | ng    | 184998   | 4                     | 17.50 | 975455 | 20.0 |
| n-Hexadecanoic acid  | 18.35 | 2.6     | ng    | 128204   | 4                     | 17.50 | 975455 | 20.0 |