

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062620\  
 Data File : VU039155.D  
 Acq On : 26 Jun 2020 11:03  
 Operator : SY/MD  
 Sample : L3110-02DL 50X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F9F12DL

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

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:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M

Title : TRACE VOA SOM01.0

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         | 1.501       | 44            | 50          | 58           | rBV      | 20203          | 18923         | 1.19%           | 0.184%        |
| 2         | 1.613       | 78            | 85          | 95           | rVB2     | 102394         | 112516        | 7.07%           | 1.094%        |
| 3         | 1.932       | 176           | 184         | 195          | rVB      | 67783          | 83574         | 5.25%           | 0.812%        |
| 4         | 2.015       | 200           | 210         | 224          | rVB      | 122531         | 169419        | 10.65%          | 1.647%        |
| 5         | 2.224       | 266           | 275         | 287          | rBV3     | 15173          | 23778         | 1.49%           | 0.231%        |
| 6         | 2.491       | 348           | 358         | 369          | rVB3     | 18571          | 30953         | 1.95%           | 0.301%        |
| 7         | 2.594       | 378           | 390         | 416          | rBV      | 114265         | 213784        | 13.44%          | 2.078%        |
| 8         | 3.073       | 522           | 539         | 560          | rBV2     | 92587          | 235111        | 14.78%          | 2.285%        |
| 9         | 3.169       | 561           | 569         | 580          | rVB3     | 11621          | 21279         | 1.34%           | 0.207%        |
| 10        | 3.391       | 624           | 638         | 655          | rVB3     | 28631          | 64347         | 4.05%           | 0.625%        |
| 11        | 4.472       | 958           | 974         | 989          | rVB4     | 18637          | 45807         | 2.88%           | 0.445%        |
| 12        | 4.571       | 989           | 1005        | 1018         | rBV5     | 15324          | 34891         | 2.19%           | 0.339%        |
| 13        | 4.681       | 1018          | 1039        | 1084         | rBV      | 129716         | 472243        | 29.69%          | 4.590%        |
| 14        | 5.102       | 1152          | 1170        | 1185         | rBV      | 126172         | 277616        | 17.45%          | 2.698%        |
| 15        | 5.417       | 1254          | 1268        | 1280         | rBV7     | 9078           | 24904         | 1.57%           | 0.242%        |
| 16        | 5.497       | 1280          | 1293        | 1309         | rVB2     | 44663          | 98591         | 6.20%           | 0.958%        |
| 17        | 5.758       | 1355          | 1374        | 1380         | rBV3     | 233045         | 599358        | 37.68%          | 5.825%        |
| 18        | 5.809       | 1380          | 1390        | 1405         | rVV      | 760614         | 1590736       | 100.00%         | 15.460%       |
| 19        | 5.893       | 1406          | 1416        | 1417         | rVV5     | 25535          | 43835         | 2.76%           | 0.426%        |
| 20        | 5.931       | 1419          | 1428        | 1448         | rVB4     | 59713          | 157903        | 9.93%           | 1.535%        |
| 21        | 6.279       | 1522          | 1536        | 1576         | rBV      | 437226         | 831415        | 52.27%          | 8.080%        |
| 22        | 6.719       | 1660          | 1673        | 1701         | rBV      | 160608         | 328645        | 20.66%          | 3.194%        |
| 23        | 7.279       | 1832          | 1847        | 1860         | rVB3     | 27177          | 55839         | 3.51%           | 0.543%        |
| 24        | 7.407       | 1872          | 1887        | 1899         | rBV3     | 40664          | 87039         | 5.47%           | 0.846%        |
| 25        | 7.590       | 1929          | 1944        | 1958         | rBV2     | 77775          | 141474        | 8.89%           | 1.375%        |
| 26        | 7.922       | 2034          | 2047        | 2061         | rVV      | 257236         | 432099        | 27.16%          | 4.199%        |
| 27        | 7.992       | 2061          | 2069        | 2080         | rVB      | 15147          | 24102         | 1.52%           | 0.234%        |
| 28        | 8.201       | 2122          | 2134        | 2147         | rBV      | 55117          | 94619         | 5.95%           | 0.920%        |
| 29        | 8.658       | 2263          | 2276        | 2309         | rBV      | 473492         | 934439        | 58.74%          | 9.082%        |
| 30        | 8.938       | 2354          | 2363        | 2377         | rVB4     | 8696           | 18178         | 1.14%           | 0.177%        |
| 31        | 9.436       | 2505          | 2518        | 2535         | rBV      | 618197         | 1016382       | 63.89%          | 9.878%        |
| 32        | 9.587       | 2554          | 2565        | 2580         | rBV      | 94760          | 152622        | 9.59%           | 1.483%        |
| 33        | 9.713       | 2592          | 2604        | 2618         | rVB2     | 34408          | 57836         | 3.64%           | 0.562%        |
| 34        | 10.774      | 2922          | 2934        | 2951         | rBV      | 143636         | 228297        | 14.35%          | 2.219%        |

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Sample : L3110-02DL 50X  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9F12DL

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.1 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:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
Title : TRACE VOA SOM01.0

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 10.918 | 2965 | 2979 | 2993 | rVB3 | 24539  | 46370  | 2.92%  | 0.451% |
| 36 | 11.481 | 3144 | 3154 | 3164 | rBV3 | 18758  | 26439  | 1.66%  | 0.257% |
| 37 | 11.825 | 3248 | 3261 | 3280 | rBV  | 586817 | 939560 | 59.06% | 9.131% |
| 38 | 12.108 | 3338 | 3349 | 3362 | rBV3 | 30896  | 50309  | 3.16%  | 0.489% |
| 39 | 12.204 | 3367 | 3379 | 3396 | rBV  | 285954 | 469478 | 29.51% | 4.563% |
| 40 | 12.696 | 3523 | 3532 | 3544 | rBV3 | 11935  | 18574  | 1.17%  | 0.181% |
| 41 | 12.806 | 3553 | 3566 | 3577 | rBV  | 9947   | 16168  | 1.02%  | 0.157% |

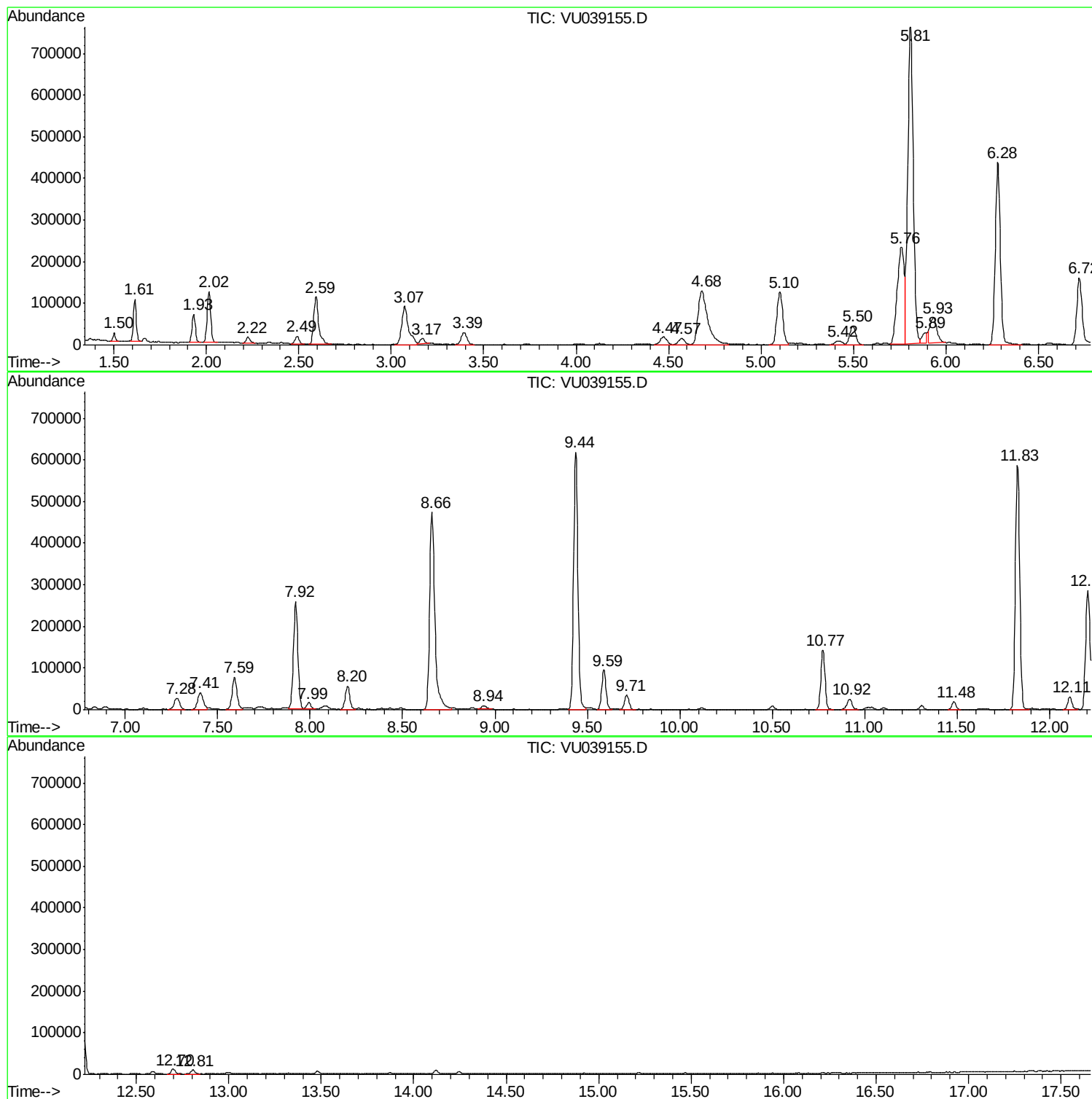
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU062620\  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9F12DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
Quant Title : TRACE VOA SOM01.0

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU062620\  
Data File : VU039155.D  
Acq On : 26 Jun 2020 11:03  
Operator : SY/MD  
Sample : L3110-02DL 50X  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampled :  
F9F12DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
Quant Title : TRACE VOA SOM01.0

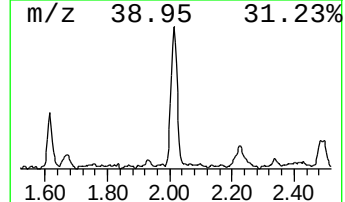
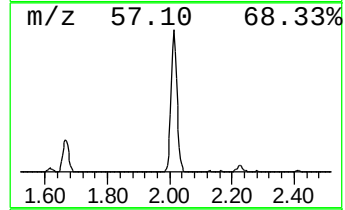
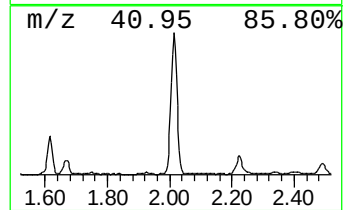
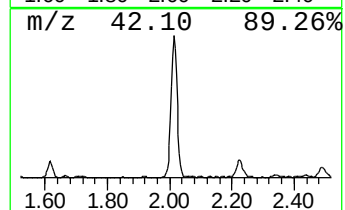
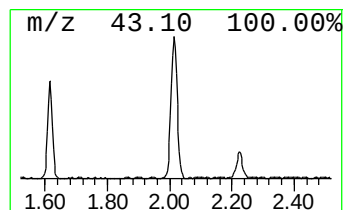
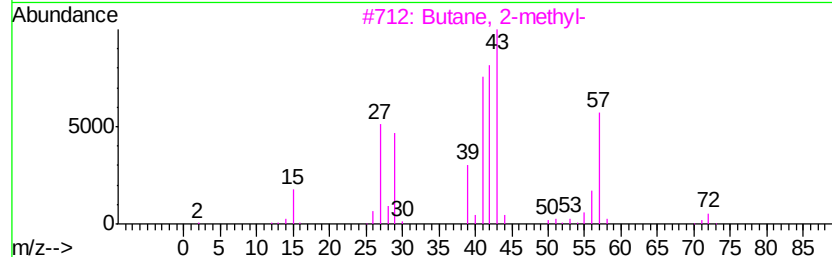
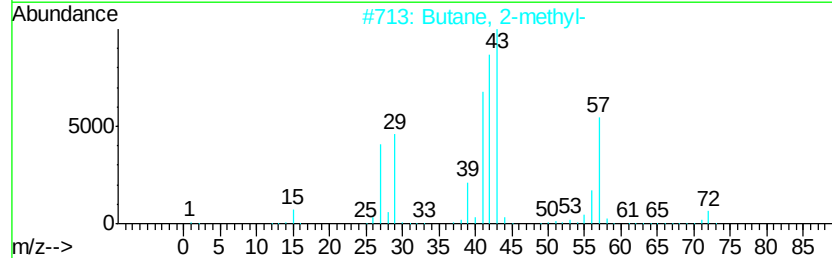
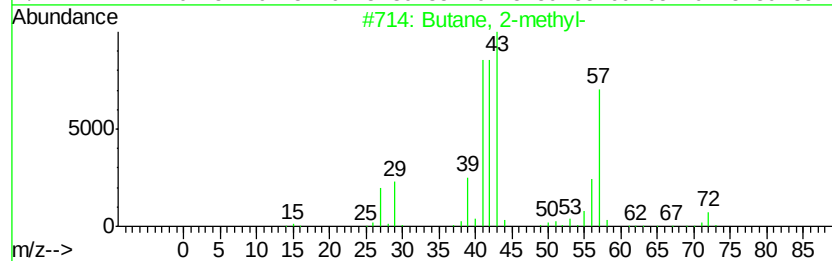
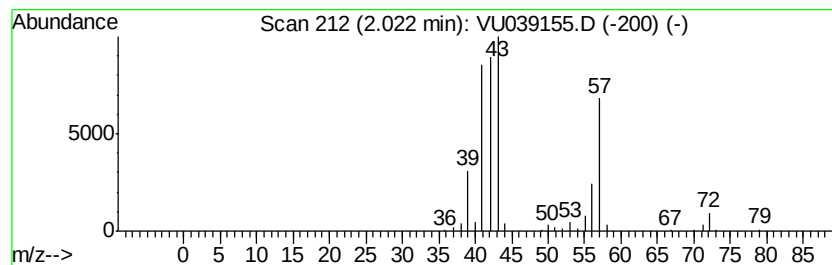
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.02 | 1.02 ug/L | 169419 | 1,4-Difluorobenzene | 6.28 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 94   |
| 2    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 86   |
| 3    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 80   |
| 4    |    | 3-Buten-1-ol      | 72 | C4H8O   | 000627-27-0 | 37   |
| 5    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 33   |



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Sample : L3110-02DL 50X  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9F12DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
Quant Title : TRACE VOA SOM01.0

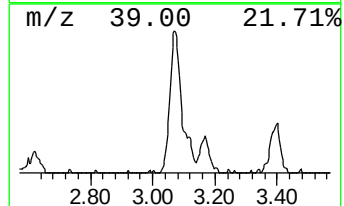
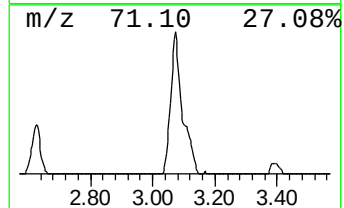
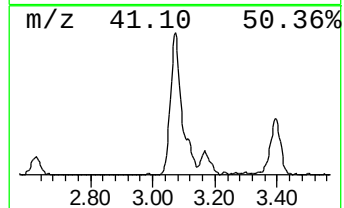
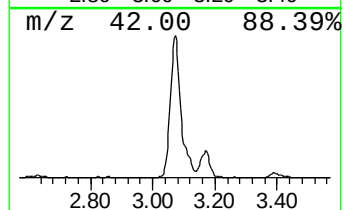
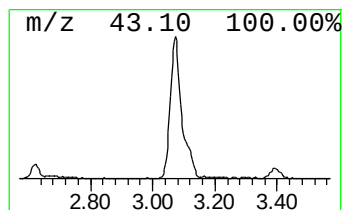
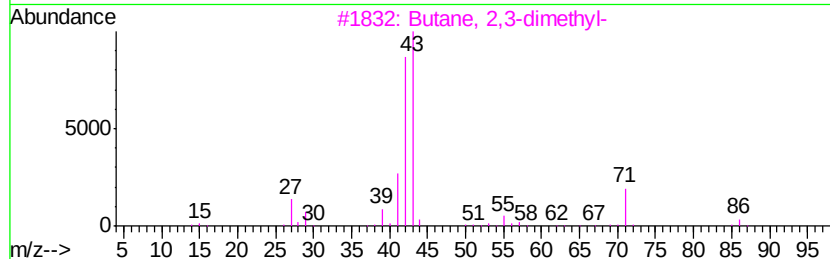
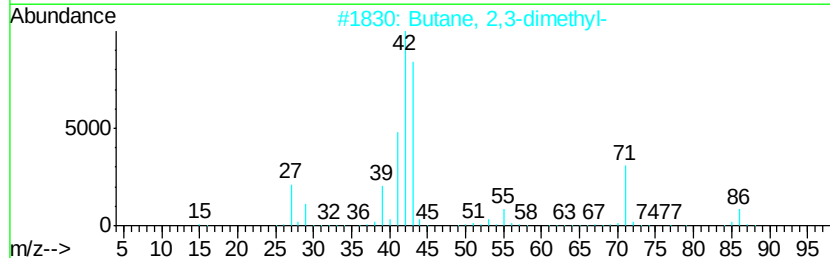
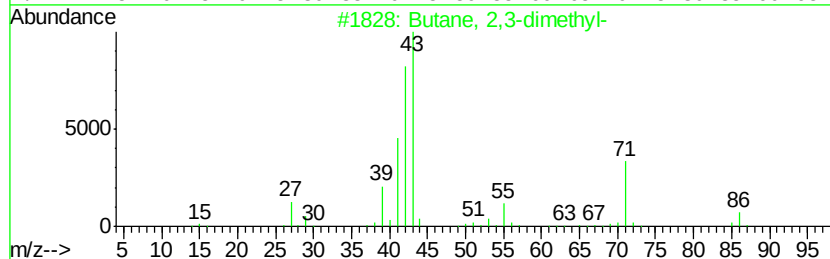
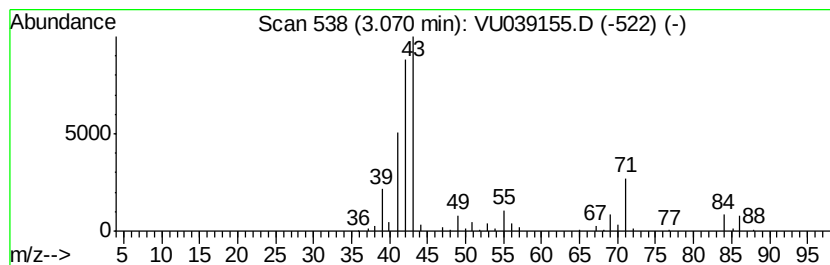
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 3.07 | 1.41 ug/L | 235111 | 1,4-Difluorobenzene | 6.28 |

| Hit# | of | 5 | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|----|---------|-------------|------|
| 1    |    |   | Butane, 2,3-dimethyl- | 86 | C6H14   | 000079-29-8 | 87   |
| 2    |    |   | Butane, 2,3-dimethyl- | 86 | C6H14   | 000079-29-8 | 80   |
| 3    |    |   | Butane, 2,3-dimethyl- | 86 | C6H14   | 000079-29-8 | 72   |
| 4    |    |   | Pentane               | 72 | C5H12   | 000109-66-0 | 12   |
| 5    |    |   | Butane, 2,3-dimethyl- | 86 | C6H14   | 000079-29-8 | 10   |



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 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 F9F12DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
 Quant Title : TRACE VOA SOM01.0

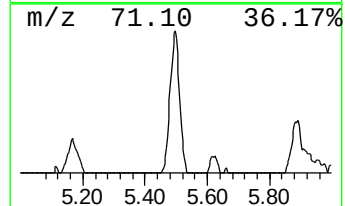
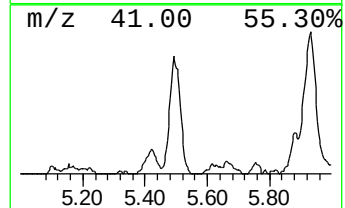
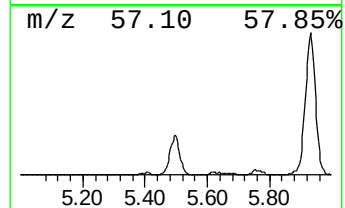
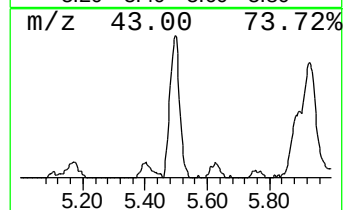
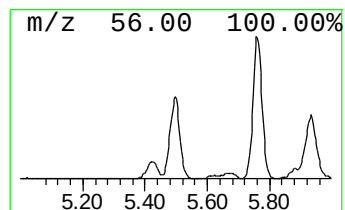
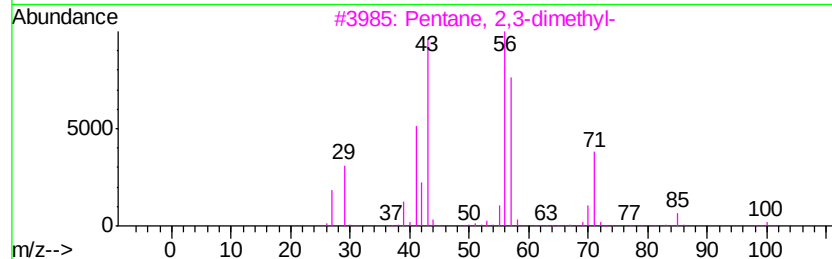
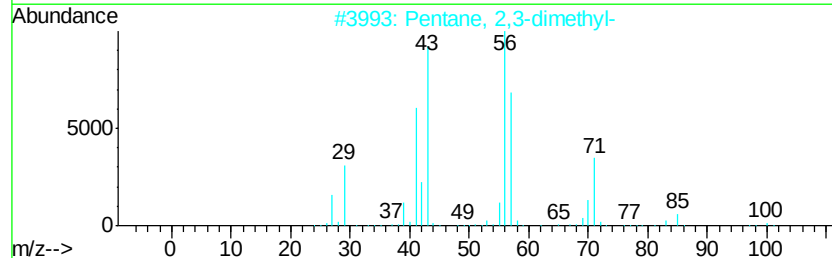
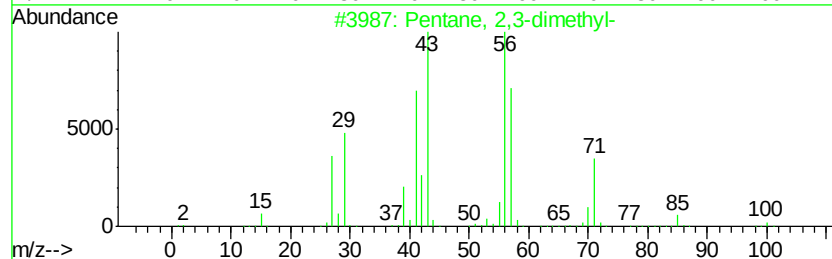
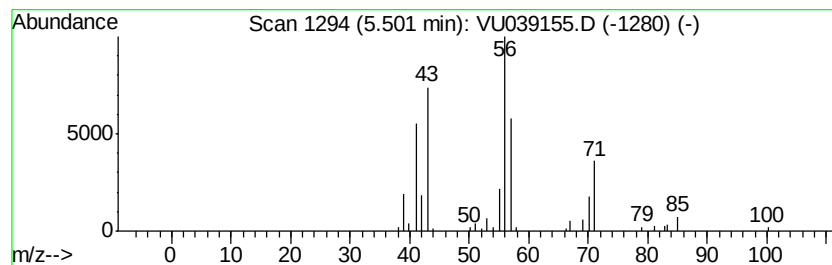
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.50 | 0.59 ug/L | 98591 | 1,4-Difluorobenzene | 6.28 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,3-dimethyl-   | 100 | C7H16   | 000565-59-3 | 87   |
| 2    |    | Pentane, 2,3-dimethyl-   | 100 | C7H16   | 000565-59-3 | 86   |
| 3    |    | Pentane, 2,3-dimethyl-   | 100 | C7H16   | 000565-59-3 | 86   |
| 4    |    | 1-Pentene, 2,4-dimethyl- | 98  | C7H14   | 002213-32-3 | 50   |
| 5    |    | Pentane, 2,3-dimethyl-   | 100 | C7H16   | 000565-59-3 | 50   |



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Sample : L3110-02DL 50X  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9F12DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
Quant Title : TRACE VOA SOM01.0

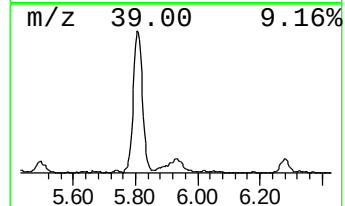
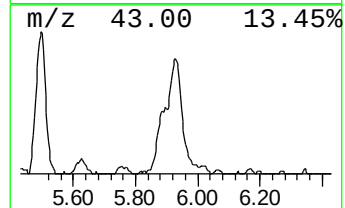
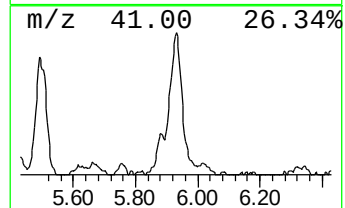
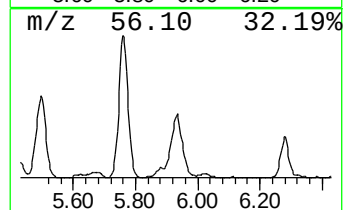
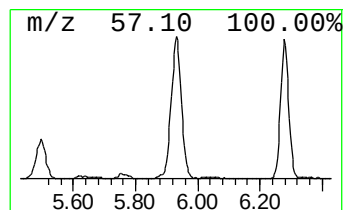
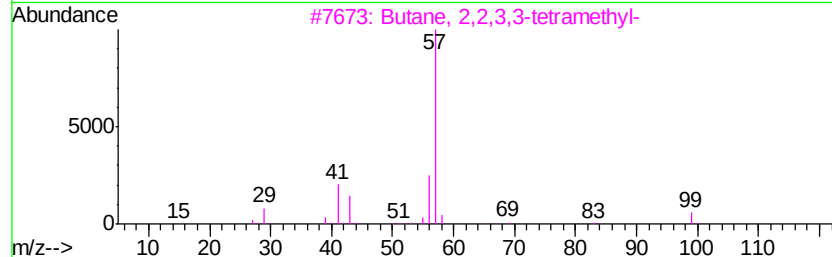
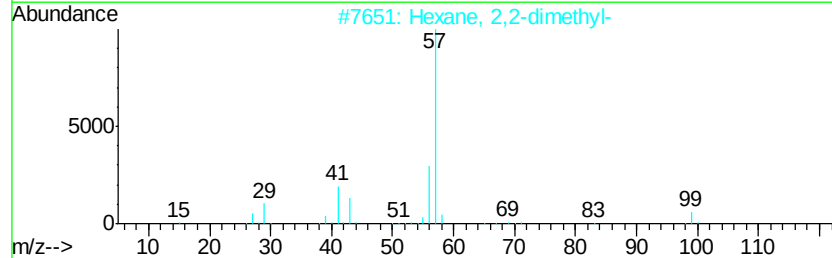
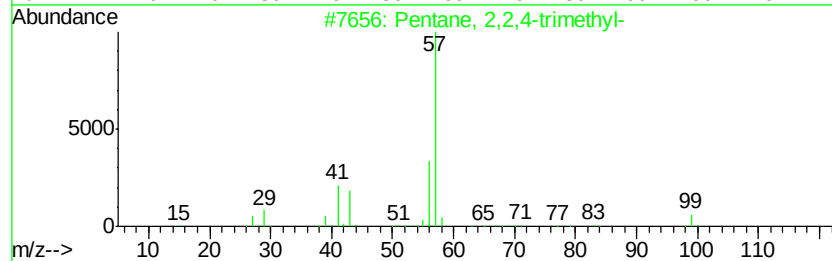
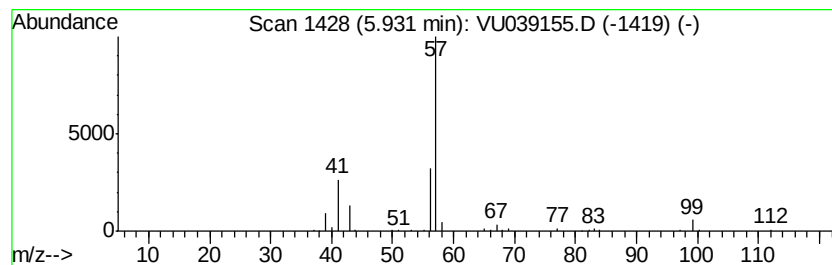
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 5.93 | 0.95 ug/L | 157903 | 1,4-Difluorobenzene | 6.28 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentane, 2,2,4-trimethyl-    | 114 | C8H18   | 000540-84-1 | 72   |
| 2    |    | Hexane, 2,2-dimethyl-        | 114 | C8H18   | 000590-73-8 | 64   |
| 3    |    | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18   | 000594-82-1 | 56   |
| 4    |    | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18   | 000594-82-1 | 50   |
| 5    |    | Hexane, 2,2-dimethyl-        | 114 | C8H18   | 000590-73-8 | 50   |



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Sample : L3110-02DL 50X  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9F12DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
Quant Title : TRACE VOA SOM01.0

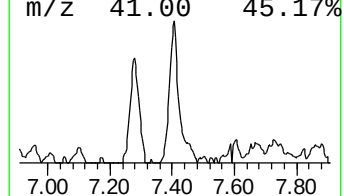
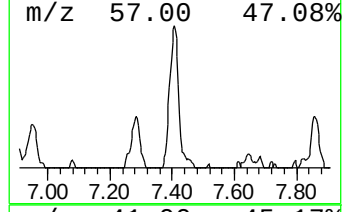
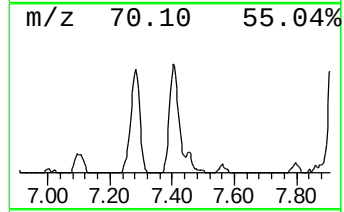
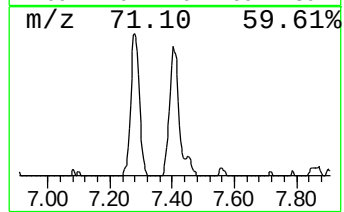
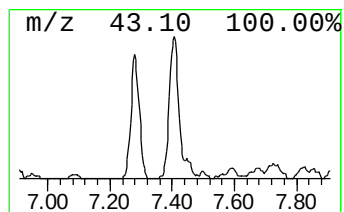
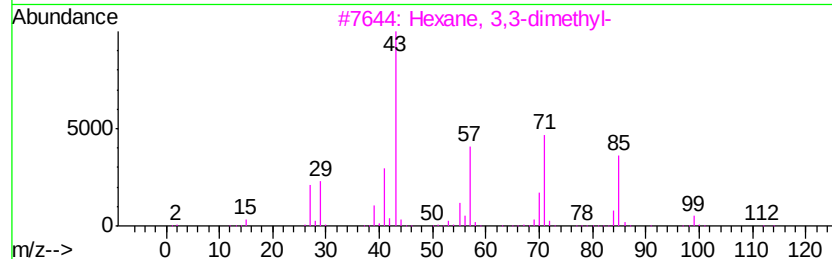
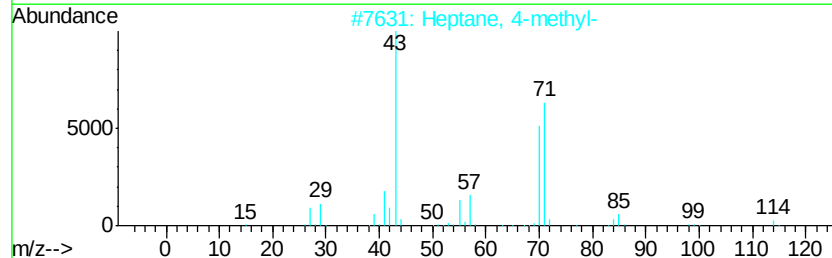
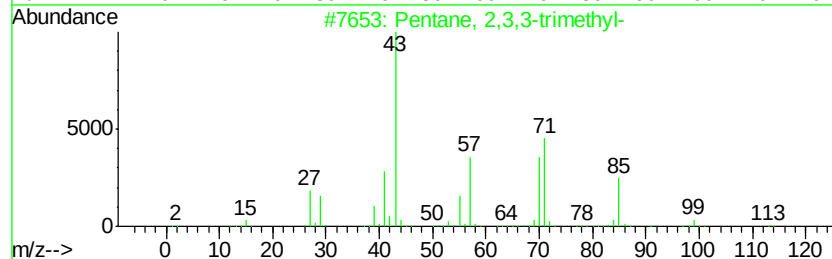
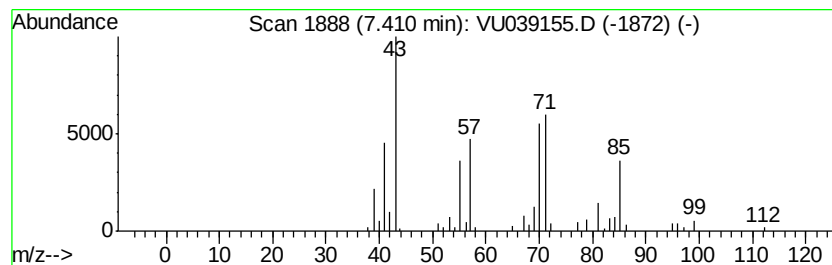
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 7.41 | 0.52 ug/L | 87039 | 1,4-Difluorobenzene | 6.28 |

| Hit# of 5 | Tentative ID                       | MW  | MolForm   | CAS#         | Qual |
|-----------|------------------------------------|-----|-----------|--------------|------|
| 1         | Pentane, 2,3,3-trimethyl-          | 114 | C8H18     | 000560-21-4  | 59   |
| 2         | Heptane, 4-methyl-                 | 114 | C8H18     | 000589-53-7  | 59   |
| 3         | Hexane, 3,3-dimethyl-              | 114 | C8H18     | 000563-16-6  | 53   |
| 4         | Sulfurous acid, hexyl pentyl ester | 236 | C11H24O3S | 1000309-14-1 | 53   |
| 5         | Decane, 3,3,4-trimethyl-           | 184 | C13H28    | 049622-18-6  | 53   |





Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU062620\  
Data File : VU039155.D  
Acq On : 26 Jun 2020 11:03  
Operator : SY/MD  
Sample : L3110-02DL 50X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
F9F12DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR062320WMA.M  
Quant Title : TRACE VOA SOM01.0

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

|                      |      |         |       |          |   | --Internal Standard-- |        |      |  |
|----------------------|------|---------|-------|----------|---|-----------------------|--------|------|--|
| TIC Top Hit name     | RT   | EstConc | Units | Response | # | RT                    | Resp   | Conc |  |
| (DEL) Alkane: Str... | 2.02 | 1.0     | ug/L  | 169419   | 1 | 6.28                  | 831415 | 5.0  |  |
| (DEL) Alkane: Str... | 3.07 | 1.4     | ug/L  | 235111   | 1 | 6.28                  | 831415 | 5.0  |  |
| (DEL) Alkane: Str... | 5.50 | 0.6     | ug/L  | 98591    | 1 | 6.28                  | 831415 | 5.0  |  |
| (DEL) Alkane: Str... | 5.93 | 0.9     | ug/L  | 157903   | 1 | 6.28                  | 831415 | 5.0  |  |
| (DEL) Alkane: Str... | 7.41 | 0.5     | ug/L  | 87039    | 1 | 6.28                  | 831415 | 5.0  |  |