

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL040925\  
 Data File : VL042294.D  
 Acq On : 09 Apr 2025 15:50  
 Operator : SY/MD  
 Sample : Q1665-08  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-DUP-2-3242025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL042294.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.431       | 410           | 415         | 421          | rBV      | 4093843        | 4418420       | 100.00%         | 44.859%       |
| 2         | 1.489       | 430           | 433         | 435          | rVB      | 316272         | 133654        | 3.02%           | 1.357%        |
| 3         | 1.560       | 451           | 455         | 458          | rBV2     | 185941         | 103828        | 2.35%           | 1.054%        |
| 4         | 1.622       | 470           | 474         | 478          | rVB      | 155150         | 79236         | 1.79%           | 0.804%        |
| 5         | 1.722       | 500           | 505         | 511          | rVB      | 108861         | 65226         | 1.48%           | 0.662%        |
| 6         | 1.835       | 536           | 540         | 548          | rBV      | 594224         | 443224        | 10.03%          | 4.500%        |
| 7         | 1.887       | 548           | 556         | 567          | rBV      | 572012         | 397343        | 8.99%           | 4.034%        |
| 8         | 2.062       | 599           | 610         | 614          | rBV4     | 67860          | 62620         | 1.42%           | 0.636%        |
| 9         | 2.560       | 759           | 764         | 773          | rBV      | 156399         | 144584        | 3.27%           | 1.468%        |
| 10        | 2.790       | 823           | 835         | 841          | rBV      | 566438         | 593553        | 13.43%          | 6.026%        |
| 11        | 2.829       | 841           | 847         | 852          | rBV      | 97408          | 108402        | 2.45%           | 1.101%        |
| 12        | 3.962       | 1183          | 1197        | 1212         | rBV      | 687429         | 1034469       | 23.41%          | 10.503%       |
| 13        | 8.882       | 2705          | 2717        | 2729         | rBV      | 819517         | 1132351       | 25.63%          | 11.496%       |
| 14        | 10.377      | 3169          | 3179        | 3192         | rBV      | 1040232        | 1132652       | 25.63%          | 11.500%       |

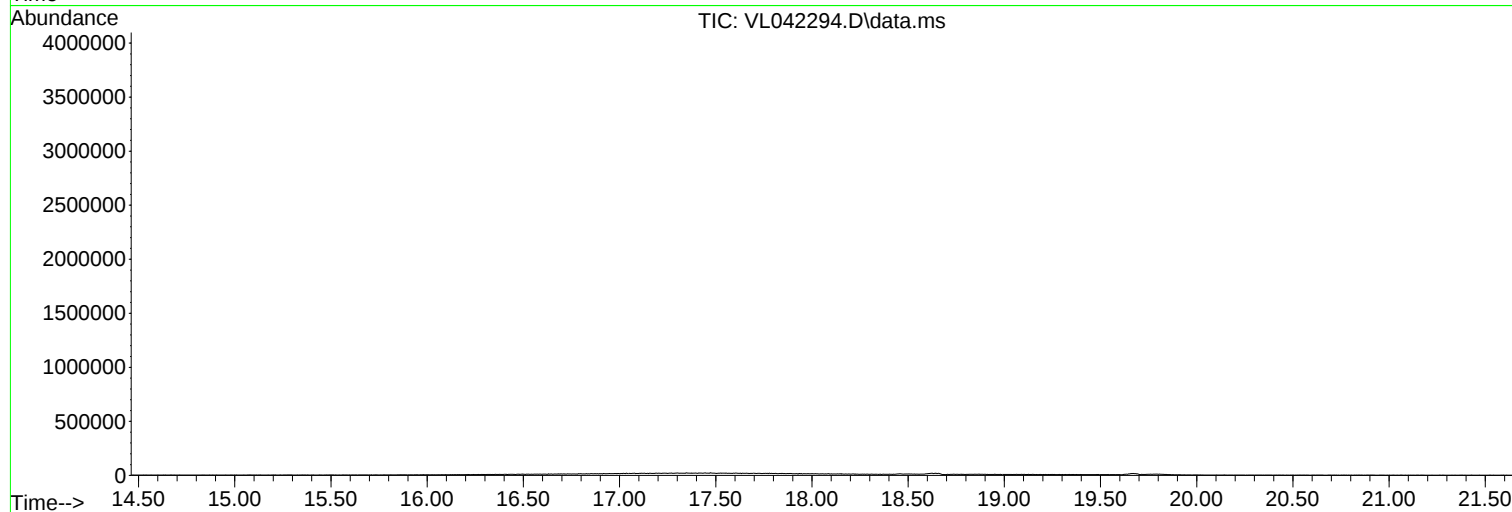
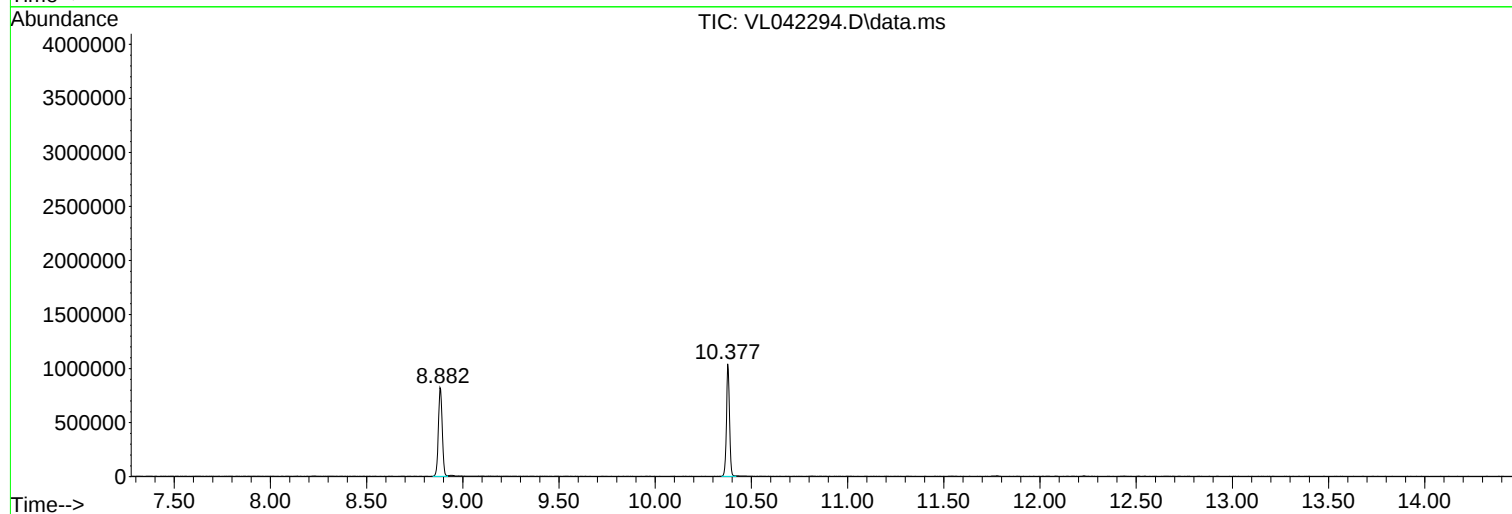
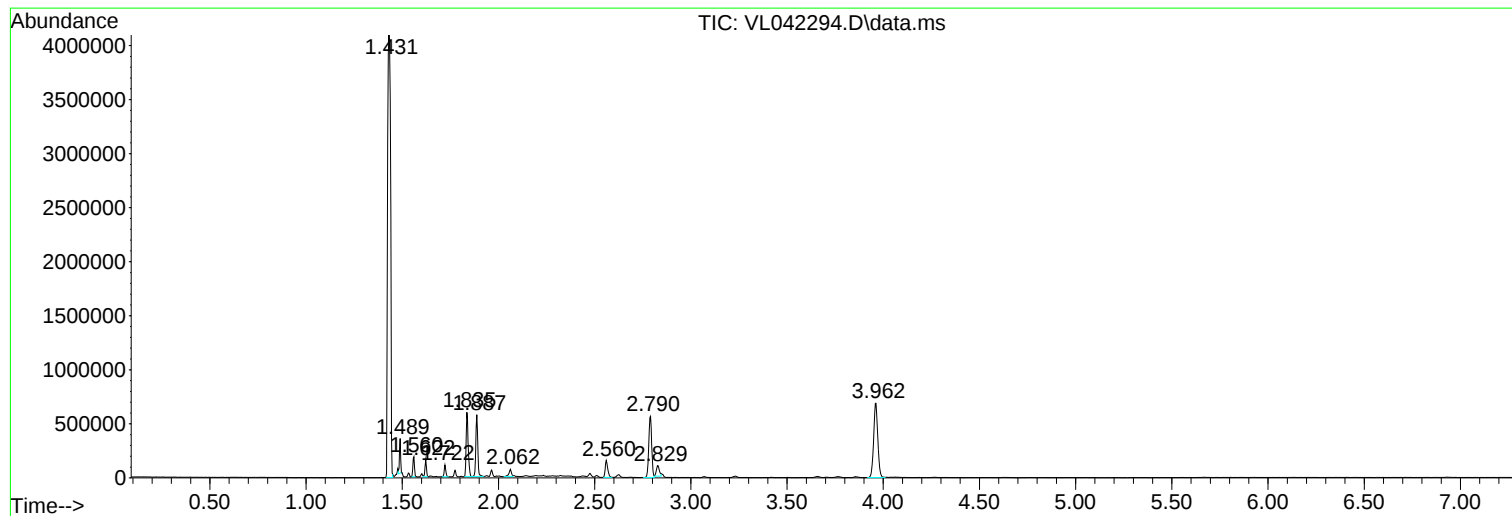
Sum of corrected areas: 9849562

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL032725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

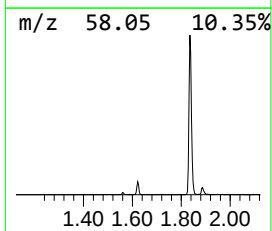
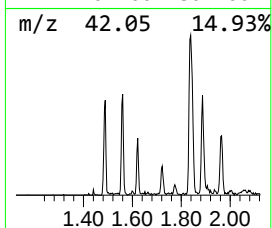
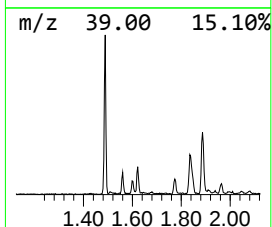
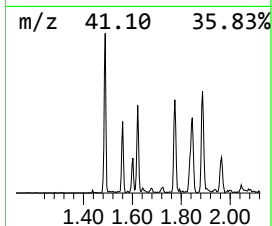
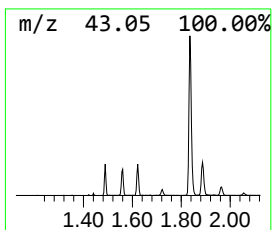
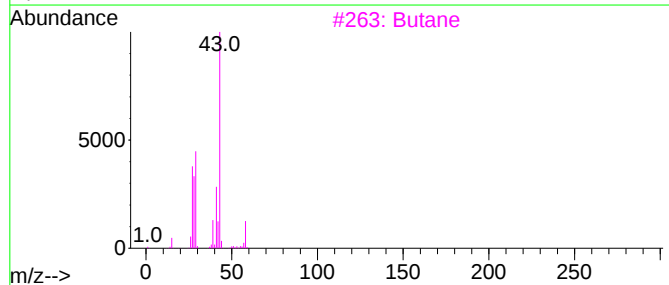
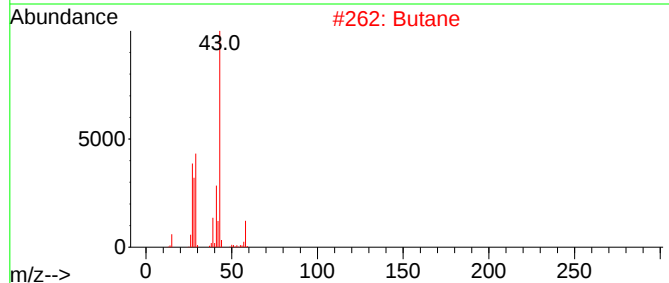
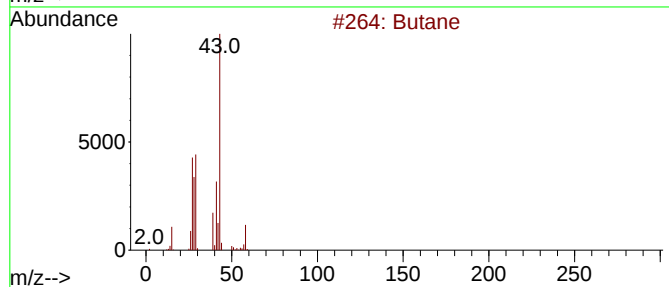
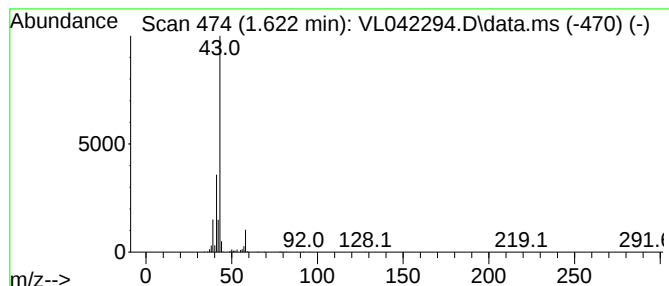
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Butane Concentration Rank 1

| R.T.  | EstConc   | Area  | Relative to ISTD   | R.T.  |
|-------|-----------|-------|--------------------|-------|
| 1.622 | 1.33 ppbv | 79236 | Bromochloromethane | 2.787 |

| Hit# | of        | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|-----------|---|--------------|----|---------|-------------|------|
| 1    | Butane    |   |              | 58 | C4H10   | 000106-97-8 | 64   |
| 2    | Butane    |   |              | 58 | C4H10   | 000106-97-8 | 64   |
| 3    | Butane    |   |              | 58 | C4H10   | 000106-97-8 | 64   |
| 4    | Butane    |   |              | 58 | C4H10   | 000106-97-8 | 64   |
| 5    | Isobutane |   |              | 58 | C4H10   | 000075-28-5 | 9    |



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TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| Butane           | 1.622 | 1.3     | ppbv  | 79236    | 1                     | 2.787 | 593553 | 10.0 |