LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV022119\
Data File : VV009324.D
Acq On : 21 Feb 2019 14:53
Operator : SY/MD
Sample : K1553-09
Misc : 2.56G/10ML/MSVOA V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BF5X4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.319 | 65 | 71 | 81 | rVB | 84714 | 86263 | 17.64% | 2.114% |
| 2 | 1.579 | 147 | 152 | 180 | rVB | 122710 | 185076 | 37.86% | 4.535% |
| 3 | 2.126 | 314 | 322 | 333 | rVB | 193637 | 271445 | 55.52% | 6.652% |
| 4 | 2.228 | 347 | 354 | 374 | rVB | 101204 | 155128 | 31.73% | 3.802% |
| 5 | 2.537 | 440 | 450 | 465 | rVB | 16567 | 28588 | 5.85% | 0.701% |
| 6 | 2.862 | 547 | 551 | 554 | rBV3 | 316 | 339 | 0.07% | 0.008% |
| 7 | 2.987 | 586 | 590 | 596 | rBV5 | 611 | 782 | 0.16% | 0.019% |
| 8 | 3.074 | 603 | 617 | 633 | rBV2 | 20053 | 40979 | 8.38% | 1.004% |
| 9 | 3.190 | 649 | 653 | 658 | rBV4 | 663 | 596 | 0.12% | 0.015% |
| 10 | 3.482 | 742 | 744 | 751 | rVB4 | 644 | 436 | 0.09% | 0.011% |
| 11 | 3.563 | 763 | 769 | 773 | rBV5 | 478 | 492 | 0.10% | 0.012% |
| 12 | 3.611 | 781 | 784 | 787 | rVB3 | 372 | 285 | 0.06% | 0.007% |
| 13 | 3.669 | 799 | 802 | 804 | rBV | 338 | 271 | 0.06% | 0.007% |
| 14 | 3.801 | 834 | 843 | 844 | rBV5 | 707 | 848 | 0.17% | 0.021% |
| 15 | 3.823 | 847 | 850 | 856 | rVB5 | 662 | 630 | 0.13% | 0.015% |
| 16 | 3.855 | 857 | 860 | 863 | rVB2 | 559 | 305 | 0.06% | 0.007% |
| 17 | 3.875 | 863 | 866 | 870 | rBV3 | 329 | 267 | 0.05% | 0.007% |
| 18 | 3.904 | 870 | 875 | 878 | rBV3 | 430 | 355 | 0.07% | 0.009% |
| 19 | 3.955 | 879 | 891 | 911 | rBV3 | 13060 | 47809 | 9.78% | 1.172% |
| 20 | 4.402 | 1012 | 1030 | 1048 | rBV2 | 82184 | 201238 | 41.16% | 4.932% |
| 21 | 4.810 | 1153 | 1157 | 1160 | rBV3 | 673 | 443 | 0.09% | 0.011% |
| 22 | 4.936 | 1193 | 1196 | 1200 | rVB3 | 550 | 398 | 0.08% | 0.010% |
| 23 | 4.978 | 1206 | 1209 | 1211 | rBV | 414 | 273 | 0.06% | 0.007% |
| 24 | 5.000 | 1213 | 1216 | 1218 | rBV | 488 | 264 | 0.05% | 0.006% |
| 25 | 5.096 | 1226 | 1246 | 1269 | rBV2 | 197148 | 488900 | 100.00% | 11.981% |
| 26 | 5.363 | 1325 | 1329 | 1330 | rBV2 | 653 | 368 | 0.08% | 0.009% |
| 27 | 5.582 | 1392 | 1397 | 1399 | rBV3 | 628 | 585 | 0.12% | 0.014% |
| 28 | 5.666 | 1409 | 1423 | 1441 | rBV | 162378 | 327550 | 67.00% | 8.027% |
| 29 | 5.859 | 1481 | 1483 | 1490 | rVB4 | 564 | 395 | 0.08% | 0.010% |
| 30 | 5.887 | 1490 | 1492 | 1497 | rVB3 | 643 | 425 | 0.09% | 0.010% |
| 31 | 5.952 | 1510 | 1512 | 1514 | rVB2 | 776 | 332 | 0.07% | 0.008% |
| 32 | 6.119 | 1549 | 1564 | 1585 | rBV | 107608 | 221383 | 45.28% | 5.425% |
| 33 | 6.289 | 1616 | 1617 | 1620 | rVB2 | 589 | 252 | 0.05% | 0.006% |
| 34 | 6.354 | 1633 | 1637 | 1641 | rBV4 | 548 | 623 | 0.13% | 0.015% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV022119\
Data File : VV009324.D
Acq On : 21 Feb 2019 14:53
Operator : SY/MD
Sample : K1553-09
Misc : 2.56G/10ML/MSVOA V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BF5X4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.531 | 1688 | 1692 | 1696 | rVB5 | 461 | 374 | 0.08% | 0.009% |
| 36 | 6.588 | 1707 | 1710 | 1713 | rBV2 | 401 | 295 | 0.06% | 0.007% |
| 37 | 6.669 | 1731 | 1735 | 1739 | rBV | 390 | 287 | 0.06% | 0.007% |
| 38 | 6.701 | 1742 | 1745 | 1746 | rBV2 | 662 | 404 | 0.08% | 0.010% |
| 39 | 6.813 | 1775 | 1780 | 1785 | rBV2 | 523 | 625 | 0.13% | 0.015% |
| 40 | 7.029 | 1835 | 1847 | 1870 | rBV | 60966 | 114766 | 23.47% | 2.812% |
| 41 | 7.154 | 1884 | 1886 | 1892 | rVB5 | 618 | 378 | 0.08% | 0.009% |
| 42 | 7.293 | 1915 | 1929 | 1930 | rBV6 | 1482 | 1892 | 0.39% | 0.046% |
| 43 | 7.360 | 1938 | 1950 | 1968 | rBV | 241849 | 428628 | 87.67% | 10.504% |
| 44 | 7.582 | 2017 | 2019 | 2021 | rBV | 556 | 261 | 0.05% | 0.006% |
| 45 | 7.614 | 2026 | 2029 | 2030 | rVV | 429 | 249 | 0.05% | 0.006% |
| 46 | 7.666 | 2034 | 2045 | 2061 | rVV2 | 40329 | 69021 | 14.12% | 1.691% |
| 47 | 7.762 | 2070 | 2075 | 2078 | rBV3 | 521 | 555 | 0.11% | 0.014% |
| 48 | 7.981 | 2138 | 2143 | 2154 | rVB4 | 2155 | 3934 | 0.80% | 0.096% |
| 49 | 8.077 | 2168 | 2173 | 2176 | rBV3 | 542 | 408 | 0.08% | 0.010% |
| 50 | 8.141 | 2181 | 2193 | 2213 | rBV3 | 57798 | 113178 | 23.15% | 2.774% |
| 51 | 8.469 | 2288 | 2295 | 2302 | rBV7 | 2653 | 3986 | 0.82% | 0.098% |
| 52 | 8.595 | 2331 | 2334 | 2337 | rBV | 395 | 321 | 0.07% | 0.008% |
| 53 | 8.646 | 2345 | 2350 | 2354 | rBV5 | 720 | 720 | 0.15% | 0.018% |
| 54 | 8.826 | 2401 | 2406 | 2407 | rBV | 379 | 256 | 0.05% | 0.006% |
| 55 | 8.897 | 2415 | 2428 | 2449 | rBV | 245362 | 415806 | 85.05% | 10.190% |
| 56 | 9.177 | 2512 | 2515 | 2518 | rBV4 | 582 | 367 | 0.08% | 0.009% |
| 57 | 9.309 | 2552 | 2556 | 2559 | rBV2 | 380 | 313 | 0.06% | 0.008% |
| 58 | 9.370 | 2572 | 2575 | 2579 | rVB3 | 536 | 365 | 0.07% | 0.009% |
| 59 | 9.598 | 2640 | 2646 | 2650 | rBV3 | 448 | 540 | 0.11% | 0.013% |
| 60 | 9.698 | 2672 | 2677 | 2680 | rBV2 | 316 | 271 | 0.06% | 0.007% |
| 61 | 9.804 | 2708 | 2710 | 2713 | rBV2 | 396 | 271 | 0.06% | 0.007% |
| 62 | 10.122 | 2806 | 2809 | 2812 | rBV3 | 381 | 288 | 0.06% | 0.007% |
| 63 | 10.202 | 2831 | 2834 | 2837 | rBV3 | 310 | 277 | 0.06% | 0.007% |
| 64 | 10.263 | 2842 | 2853 | 2866 | rVV | 94944 | 151589 | 31.01% | 3.715% |
| 65 | 10.328 | 2870 | 2873 | 2877 | rBV2 | 538 | 394 | 0.08% | 0.010% |
| 66 | 10.427 | 2894 | 2904 | 2916 | rBV2 | 5296 | 9168 | 1.88% | 0.225% |
| 67 | 10.501 | 2924 | 2927 | 2930 | rBV2 | 296 | 261 | 0.05% | 0.006% |
| 68 | 10.550 | 2938 | 2942 | 2944 | rBV | 448 | 313 | 0.06% | 0.008% |
| 69 | 10.588 | 2950 | 2954 | 2956 | rBV2 | 485 | 292 | 0.06% | 0.007% |
| 70 | 10.736 | 2997 | 3000 | 3004 | rVB2 | 460 | 343 | 0.07% | 0.008% |
| 71 | 10.839 | 3026 | 3032 | 3036 | rBV5 | 776 | 983 | 0.20% | 0.024% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV022119\
Data File : VV009324.D
Acq On : 21 Feb 2019 14:53
Operator : SY/MD
Sample : K1553-09
Misc : 2.56G/10ML/MSVOA V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BF5X4

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 10.894 | 3046 | 3049 | 3052 | rBV2 | 380 | 270 | 0.06% | 0.007% |
| 73 | 10.964 | 3066 | 3071 | 3077 | rBV4 | 796 | 1170 | 0.24% | 0.029% |
| 74 | 11.083 | 3103 | 3108 | 3111 | rBV2 | 597 | 557 | 0.11% | 0.014% |
| 75 | 11.189 | 3134 | 3141 | 3142 | rBV4 | 951 | 895 | 0.18% | 0.022% |
| 76 | 11.238 | 3151 | 3156 | 3163 | rVB5 | 5904 | 7388 | 1.51% | 0.181% |
| 77 | 11.296 | 3163 | 3174 | 3192 | rVB | 222475 | 350580 | 71.71% | 8.591% |
| 78 | 11.675 | 3277 | 3292 | 3306 | rBV | 199496 | 319905 | 65.43% | 7.840% |
| 79 | 11.836 | 3338 | 3342 | 3344 | rBV2 | 711 | 665 | 0.14% | 0.016% |
| 80 | 11.894 | 3355 | 3360 | 3364 | rBV5 | 712 | 790 | 0.16% | 0.019% |
| 81 | 11.948 | 3375 | 3377 | 3379 | rBV2 | 543 | 258 | 0.05% | 0.006% |
| 82 | 12.009 | 3393 | 3396 | 3398 | rBV | 535 | 340 | 0.07% | 0.008% |
| 83 | 12.199 | 3447 | 3455 | 3456 | rBV | 366 | 348 | 0.07% | 0.009% |
| 84 | 12.370 | 3502 | 3508 | 3510 | rBV3 | 350 | 385 | 0.08% | 0.009% |
| 85 | 12.443 | 3528 | 3531 | 3535 | rVB3 | 506 | 361 | 0.07% | 0.009% |
| 86 | 12.559 | 3564 | 3567 | 3570 | rVV | 329 | 260 | 0.05% | 0.006% |
| 87 | 12.762 | 3627 | 3630 | 3633 | rBV4 | 550 | 353 | 0.07% | 0.009% |
| 88 | 12.791 | 3636 | 3639 | 3640 | rBV2 | 667 | 374 | 0.08% | 0.009% |
| 89 | 12.887 | 3666 | 3669 | 3676 | rBV4 | 438 | 547 | 0.11% | 0.013% |
| 90 | 13.025 | 3709 | 3712 | 3717 | rBV2 | 454 | 466 | 0.10% | 0.011% |
| 91 | 13.058 | 3717 | 3722 | 3724 | rBV3 | 507 | 427 | 0.09% | 0.010% |
| 92 | 13.472 | 3848 | 3851 | 3854 | rBV2 | 500 | 301 | 0.06% | 0.007% |
| 93 | 13.492 | 3854 | 3857 | 3860 | rVB2 | 562 | 439 | 0.09% | 0.011% |
| 94 | 13.514 | 3860 | 3864 | 3867 | rBV2 | 793 | 637 | 0.13% | 0.016% |
| 95 | 13.572 | 3880 | 3882 | 3888 | rVB2 | 731 | 495 | 0.10% | 0.012% |
| 96 | 13.672 | 3910 | 3913 | 3916 | rBV | 588 | 484 | 0.10% | 0.012% |
| 97 | 13.714 | 3923 | 3926 | 3928 | rBV | 556 | 251 | 0.05% | 0.006% |
| 98 | 13.794 | 3942 | 3951 | 3960 | rBV5 | 2567 | 4298 | 0.88% | 0.105% |
| 99 | 14.225 | 4083 | 4085 | 4090 | rBV2 | 572 | 387 | 0.08% | 0.009% |
| 100 | 14.328 | 4115 | 4117 | 4119 | rBV2 | 469 | 278 | 0.06% | 0.007% |

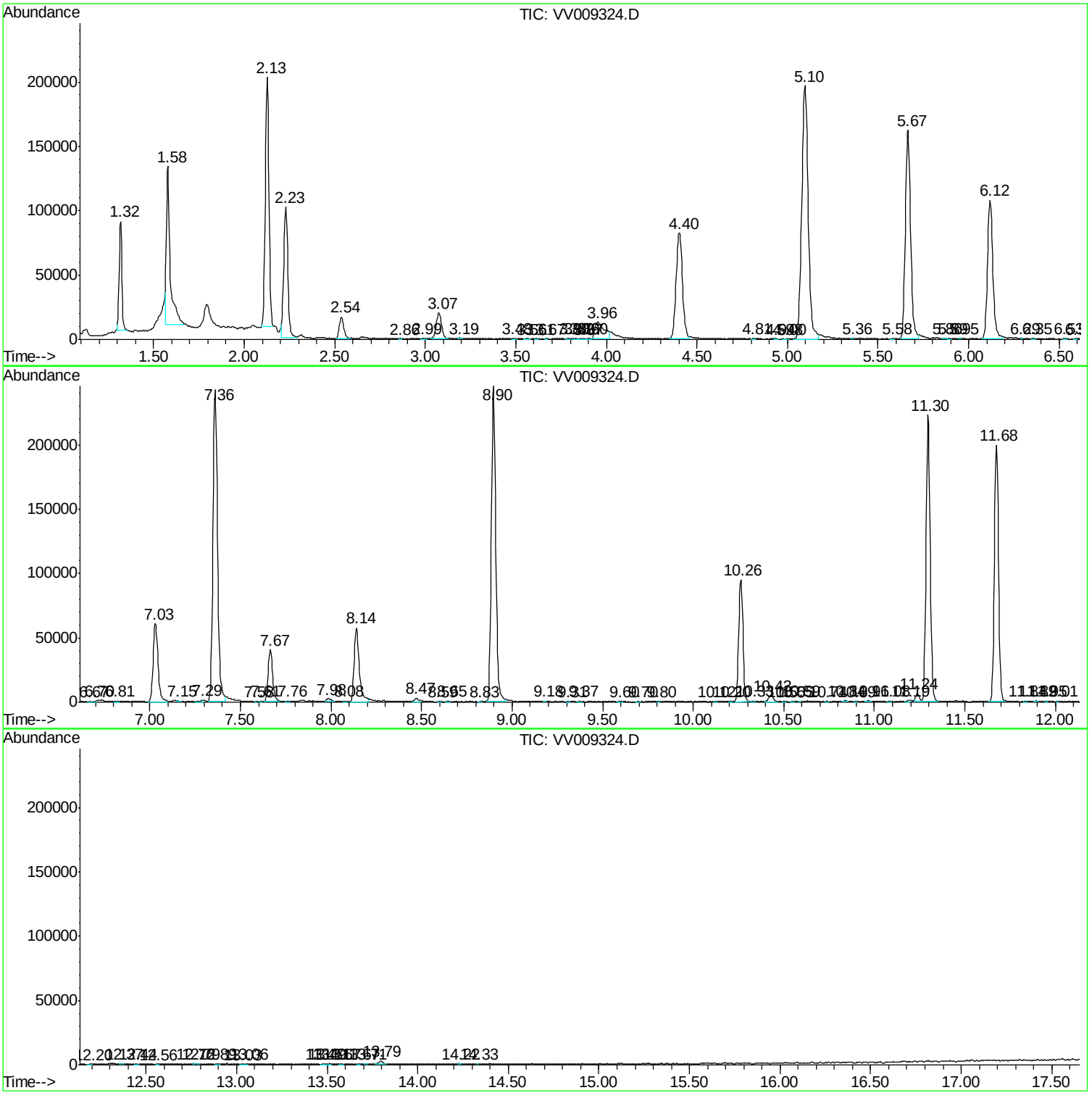
Sum of corrected areas: 4080611

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV022119\
Data File : VV009324.D
Acq On : 21 Feb 2019 14:53
Operator : SY/MD
Sample : K1553-09
Misc : 2.56G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
BF5X4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV022119\
Data File : VV009324.D
Acq On : 21 Feb 2019 14:53
Operator : SY/MD
Sample : K1553-09
Misc : 2.56G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BF5X4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Quant Title : VOC Analysis

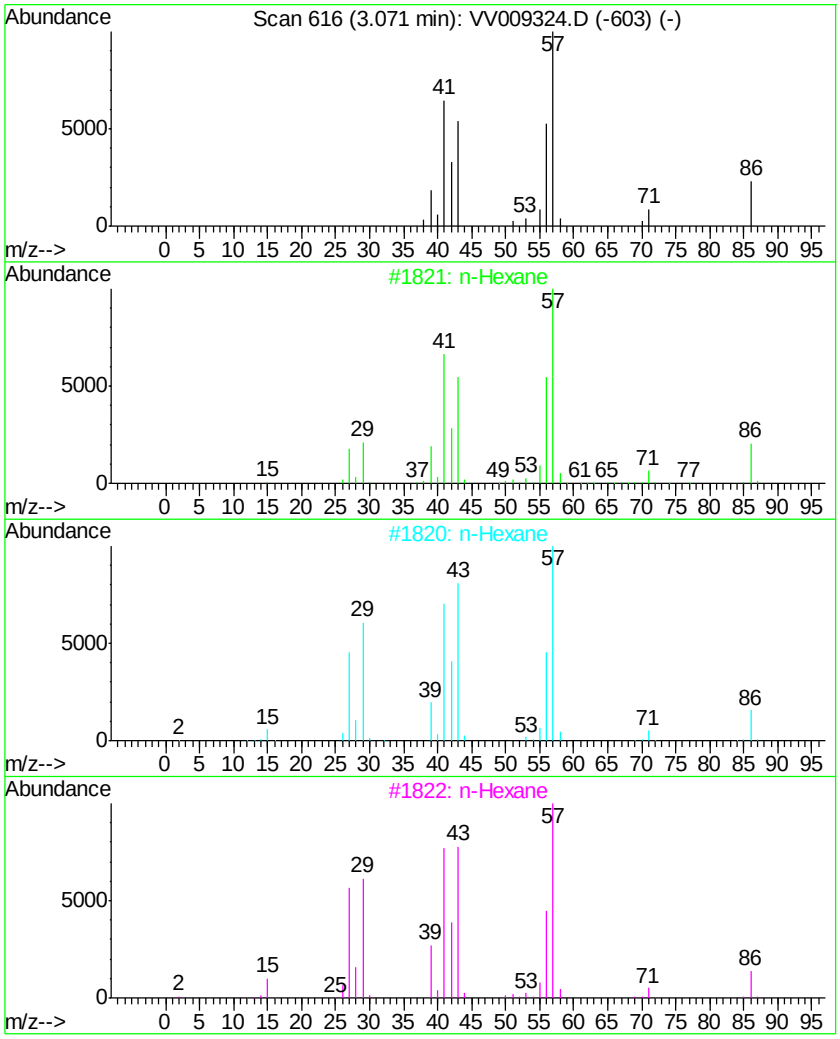
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

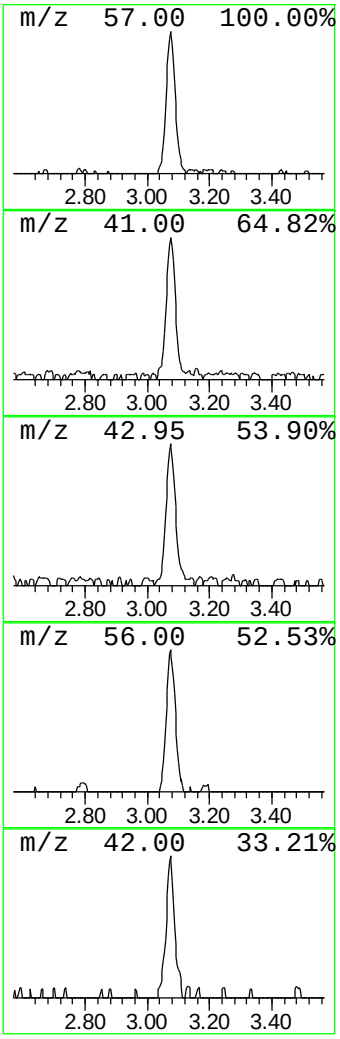
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.07 | 3.13 ug/L | 40979 | 1,4-Difluorobenzene | 5.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexane | 86 | C6H14 | 000110-54-3 | 91 |
| 2 | n-Hexane | 86 | C6H14 | 000110-54-3 | 78 |
| 3 | n-Hexane | 86 | C6H14 | 000110-54-3 | 72 |
| 4 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 42 |
| 5 | 1-Pentene, 4-methyl- | 84 | C6H12 | 000691-37-2 | 25 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV022119\
Data File : VV009324.D
Acq On : 21 Feb 2019 14:53
Operator : SY/MD
Sample : K1553-09
Misc : 2.56G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BF5X4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Quant Title : VOC Analysis

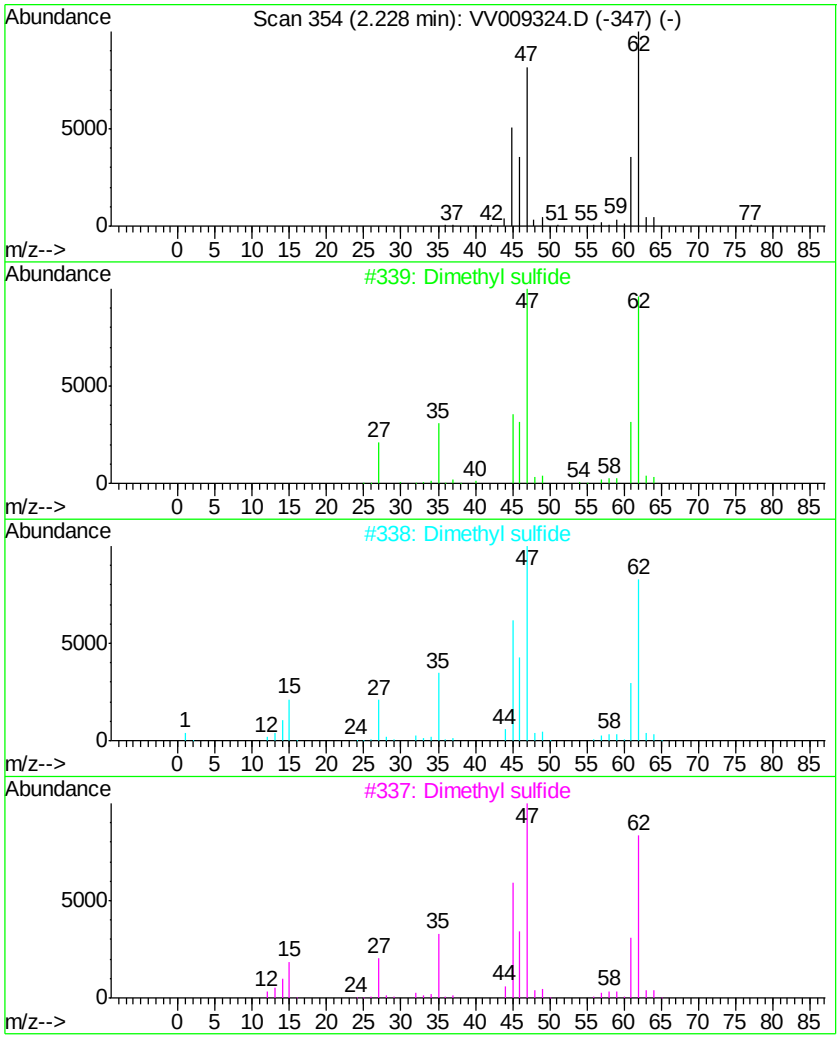
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

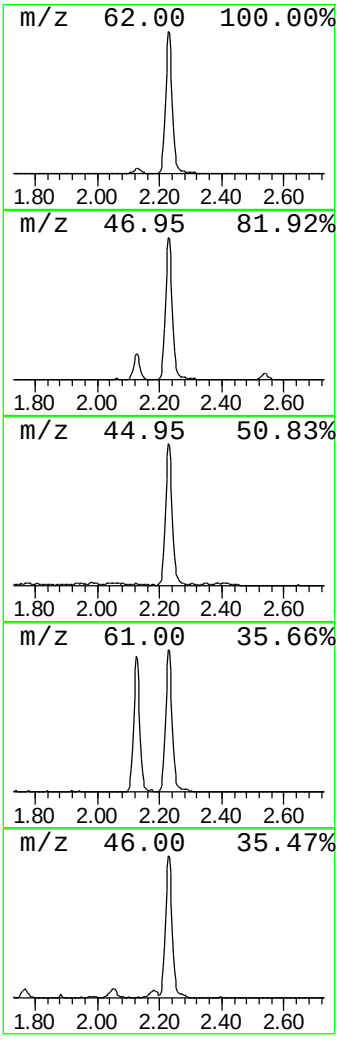
**********

Peak Number 3 Dimethyl sulfide Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.23 | 11.84 ug/L | 155128 | 1,4-Difluorobenzene | 5.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dimethyl sulfide | 62 | C2H6S | 000075-18-3 | 94 |
| 2 | Dimethyl sulfide | 62 | C2H6S | 000075-18-3 | 94 |
| 3 | Dimethyl sulfide | 62 | C2H6S | 000075-18-3 | 94 |
| 4 | Dimethyl sulfide | 62 | C2H6S | 000075-18-3 | 94 |
| 5 | Borane-methyl sulfide complex | 76 | C2H9BS | 013292-87-0 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV022119\
Data File : VV009324.D
Acq On : 21 Feb 2019 14:53
Operator : SY/MD
Sample : K1553-09
Misc : 2.56G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :** BF5X4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM022019S.M
Quant Title : VOC Analysis

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... | 3.07 | 3.1 | ug/L | 40979 | 1 | 5.67 | 327550 | 25.0 |
| Dimethyl sulfide | 2.23 | 11.8 | ug/L | 155128 | 1 | 5.67 | 327550 | 25.0 |