

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081722\  
 Data File : VL039538.D  
 Acq On : 17 Aug 2022 4:56  
 Operator : SY/AP  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Aug 17 05:27:08 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Aug 17 04:35:27 2022  
 QLast Update : Wed Aug 17 04:35:27 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.20  | 49   | 1099287  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 6.66  | 114  | 2948684  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 11.47 | 117  | 2739517  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 13.78  | 95    | 2077952  | 10.22    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.20% |

| Target Compounds               |      |     |        |              | Ovalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 2.75 | 85  | 209311 | 1.350 ppbv   | 97     |
| 3) Chlorodifluoromethane       | 2.70 | 51  | 144892 | 1.049 ppbv   | 96     |
| 4) Chloromethane               | 2.83 | 50  | 85024  | 1.106 ppbv   | 90     |
| 5) Vinyl Chloride              | 2.94 | 62  | 69090  | 0.923 ppbv   | 98     |
| 6) Bromomethane                | 3.14 | 94  | 12046  | 0.392 ppbv   | 99     |
| 7) Chloroethane                | 3.22 | 64  | 22556  | 0.853 ppbv # | 81     |
| 8) Dichlorotetrafluoroethane   | 2.88 | 85  | 172437 | 1.010 ppbv   | 95     |
| 9) Propene                     | 2.72 | 41  | 62441  | 0.998 ppbv   | 92     |
| 10) Heptane                    | 7.58 | 43  | 145516 | 0.997 ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.58 | 101 | 170053 | 0.978 ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.09 | 101 | 121873 | 0.947 ppbv   | 96     |
| 13) Ethanol                    | 3.26 | 45  | 1896   | 0.521 ppbv # | 1      |
| 14) Bromoethene                | 3.39 | 108 | 42321  | 0.778 ppbv # | 71     |
| 15) Acetone                    | 3.49 | 43  | 133818 | 1.045 ppbv   | 93     |
| 16) 1,3-Butadiene              | 3.00 | 39  | 66360  | 0.993 ppbv   | 95     |
| 17) tert-Butyl alcohol         | 3.90 | 59  | 109080 | 1.014 ppbv # | 94     |
| 18) 1,1-Dichloroethene         | 3.90 | 96  | 52090  | 0.893 ppbv   | 92     |
| 19) Isopropyl Alcohol          | 3.61 | 45  | 55022  | 0.812 ppbv # | 100    |
| 20) Methylene Chloride         | 3.95 | 84  | 54965  | 1.078 ppbv # | 88     |
| 21) Allyl Chloride             | 4.01 | 41  | 78297  | 0.882 ppbv   | 95     |
| 22) trans-1,2-Dichloroethene   | 4.46 | 96  | 53230  | 0.947 ppbv   | 93     |
| 23) Vinyl Acetate              | 4.64 | 43  | 53737  | 0.659 ppbv # | 89     |
| 24) 1,1-Dichloroethane         | 4.58 | 63  | 114125 | 0.944 ppbv   | 98     |
| 25) Ethyl Acetate              | 5.22 | 43  | 158258 | 0.598 ppbv # | 78     |
| 26) Hexane                     | 5.22 | 57  | 116224 | 1.102 ppbv   | 93     |
| 27) Carbon Disulfide           | 4.15 | 76  | 112221 | 0.882 ppbv   | 96     |
| 28) Methyl tert-Butyl Ether    | 4.61 | 73  | 102014 | 0.915 ppbv   | 96     |
| 29) Chloroform                 | 5.28 | 83  | 179475 | 0.980 ppbv   | 96     |
| 30) Cyclohexane                | 6.61 | 84  | 39603  | 0.412 ppbv # | 100    |
| 31) cis-1,2-Dichloroethene     | 5.09 | 61  | 102788 | 0.918 ppbv   | 89     |
| 32) 1,1,1-Trichloroethane      | 6.01 | 97  | 165417 | 0.914 ppbv   | 99     |
| 34) 2-Butanone                 | 4.81 | 43  | 157112 | 1.072 ppbv   | 96     |
| 35) Carbon Tetrachloride       | 6.50 | 117 | 86752  | 0.483 ppbv   | 96     |
| 36) Benzene                    | 6.38 | 78  | 234389 | 1.032 ppbv   | 96     |
| 37) 1,2-Dichloroethane         | 5.81 | 62  | 132493 | 0.999 ppbv   | 100    |
| 38) Trichloroethene            | 7.30 | 130 | 121523 | 0.981 ppbv   | 97     |
| 39) 1,2-Dichloropropane        | 7.08 | 63  | 87702  | 1.035 ppbv   | 93     |
| 40) 1,4-Dioxane                | 7.31 | 88  | 14925  | 0.445 ppbv # | 1      |
| 41) Tetrahydrofuran            | 5.59 | 42  | 82953  | 0.968 ppbv   | 95     |
| 42) Bromodichloromethane       | 7.25 | 83  | 170611 | 0.952 ppbv   | 94     |
| 43) Methyl Methacrylate        | 7.49 | 69  | 78175  | 0.910 ppbv   | 93     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081722\  
 Data File : VL039538.D  
 Acq On : 17 Aug 2022 4:56  
 Operator : SY/AP  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

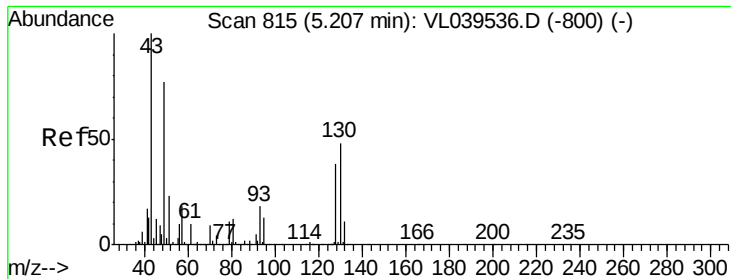
Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Aug 17 05:27:08 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Aug 17 04:35:27 2022  
 QLast Update : Wed Aug 17 04:35:27 2022  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.33  | 57   | 406051   | 1.056 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 8.72  | 75   | 55511    | 0.741 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.15  | 75   | 86045    | 0.822 | ppbv # | 87       |
| 47) 1,1,2-Trichloroethane     | 8.90  | 97   | 97232    | 1.023 | ppbv   | 90       |
| 48) Dibromochloromethane      | 9.71  | 129  | 133771   | 0.892 | ppbv   | 93       |
| 49) Bromoform                 | 12.41 | 173  | 110756   | 0.914 | ppbv # | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.20  | 43   | 206172   | 0.919 | ppbv   | 95       |
| 51) 2-Hexanone                | 9.57  | 43   | 152960   | 0.904 | ppbv # | 98       |
| 52) Tetrachloroethene         | 10.62 | 164  | 92714    | 1.018 | ppbv   | 96       |
| 53) Toluene                   | 9.23  | 91   | 248642   | 0.953 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.01 | 107  | 109577   | 0.940 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 11.51 | 131  | 120054   | 1.013 | ppbv # | 1        |
| 57) Chlorobenzene             | 11.53 | 112  | 230870   | 1.106 | ppbv # | 89       |
| 58) Ethyl Benzene             | 12.09 | 91   | 329246   | 0.951 | ppbv   | 95       |
| 59) m/p-Xylene                | 12.37 | 91   | 262932   | 0.863 | ppbv # | 100      |
| 60) o-Xylene                  | 13.06 | 91   | 160272   | 0.554 | ppbv # | 40       |
| 61) Styrene                   | 12.90 | 104  | 81060    | 0.518 | ppbv # | 47       |
| 62) Isopropylbenzene          | 14.03 | 105  | 448512   | 1.020 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 13.05 | 83   | 134414   | 0.892 | ppbv   | 95       |
| 64) n-propylbenzene           | 14.92 | 120  | 113816   | 1.024 | ppbv   | 91       |
| 65) tert-Butylbenzene         | 16.09 | 119  | 406178   | 1.004 | ppbv   | 96       |
| 66) Benzyl Chloride           | 16.34 | 91   | 20640    | 0.563 | ppbv # | 96       |
| 67) sec-Butylbenzene          | 16.64 | 105  | 560972   | 1.026 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.00 | 119  | 464641   | 1.006 | ppbv   | 98       |
| 70) n-Butylbenzene            | 17.89 | 91   | 467753   | 1.040 | ppbv   | 96       |
| 71) 2-Chlorotoluene           | 14.80 | 91   | 321341   | 1.019 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.20 | 105  | 329512   | 0.967 | ppbv # | 100      |
| 73) 1,3,5-Trimethylbenzene    | 15.36 | 105  | 296914   | 0.953 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.11 | 105  | 350745   | 1.021 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 16.33 | 146  | 206316   | 1.007 | ppbv   | 94       |
| 76) 1,4-Dichlorobenzene       | 16.47 | 146  | 204971   | 0.997 | ppbv   | 91       |
| 77) 1,2-Dichlorobenzene       | 17.14 | 146  | 109796   | 0.542 | ppbv # | 22       |
| 78) Hexachloro-1,3-Butadiene  | 22.63 | 225  | 92876    | 0.566 | ppbv # | 100      |
| 79) Naphthalene               | 21.39 | 128  | 251158   | 1.053 | ppbv # | 94       |
| 80) Naphthalene, 2-methyl-    | 24.39 | 142  | 62789    | 0.736 | ppbv # | 100      |
| 81) 1,2,4-Trichlorobenzene    | 21.14 | 180  | 83839    | 0.542 | ppbv # | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.20 Instrument: MSVOA\_1

Delta R.T. 0.00

Lab File: ClientSampleId: VSTDIC001

Acq: 17 Aug 2022 4:50

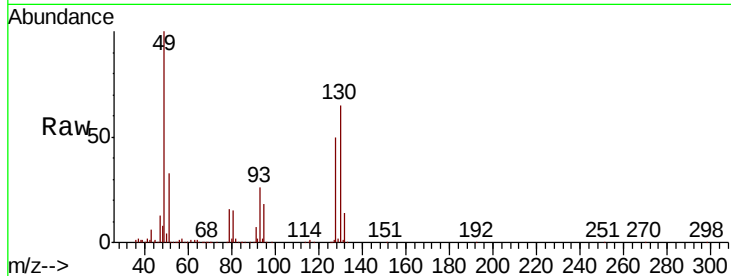
Tot Ion: 49 Resp: 1099287

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 51.2  | 25.7  | 77.0  |
| 130 | 65.1  | 31.6  | 95.0  |

49 100

128 51.2 25.7 77.0

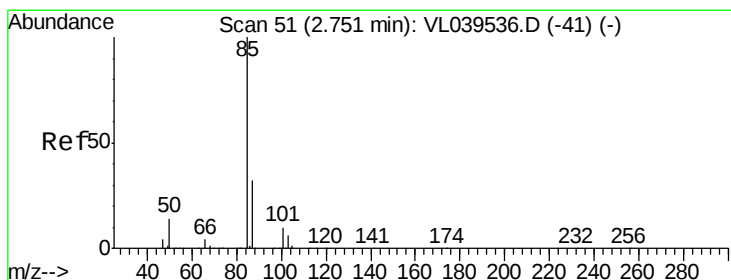
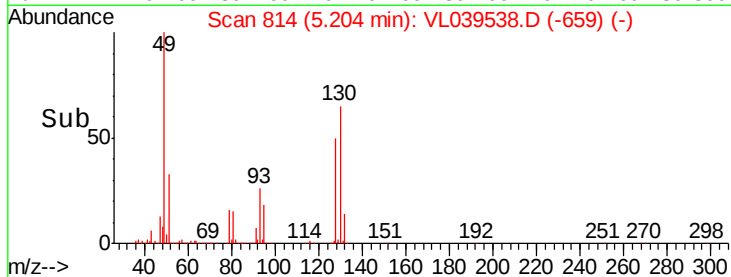
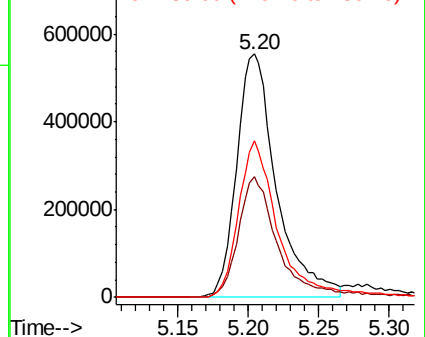
130 65.1 31.6 95.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 1.350 ppbv

RT: 2.75 min Scan# 51

Delta R.T. 0.00 min

Lab File: VL039538.D

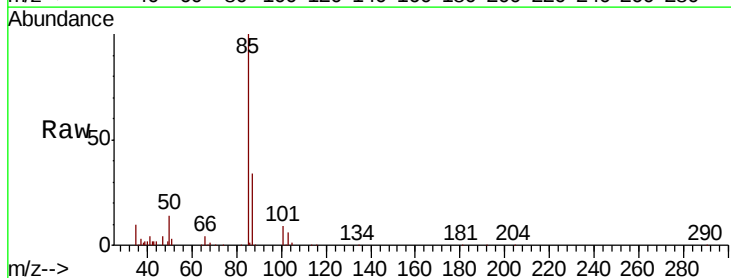
Acq: 17 Aug 2022 4:56

Tgt Ion: 85 Resp: 209311

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 85  | 100   |       |       |
| 87  | 34.3  | 25.9  | 38.9  |

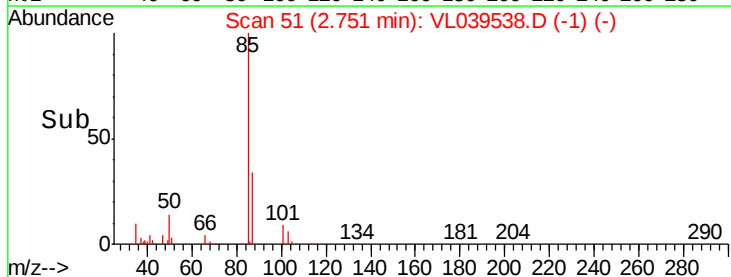
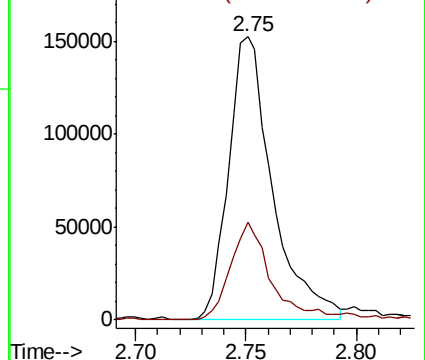
85 100

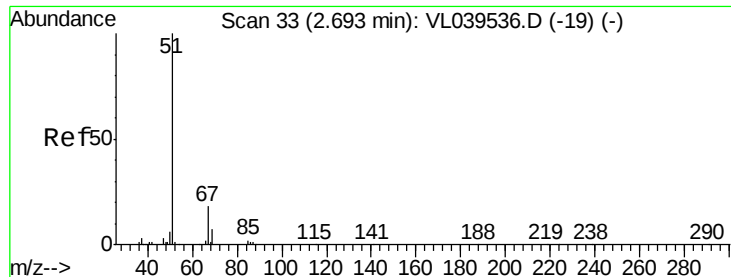
87 34.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.049 ppbv

RT: 2.70 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

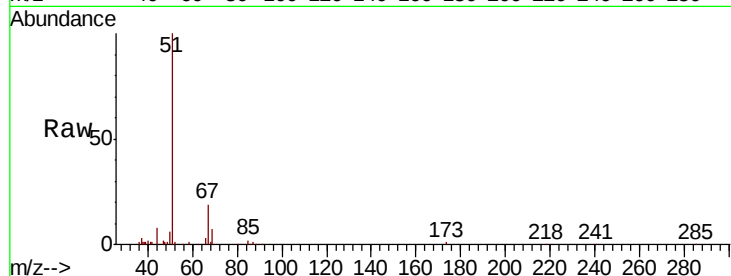
Acq: 17 Aug 2022 4:50

Tot Ion: 51 Resp: 144892

Ion Ratio Lower Upper

51 100

67 16.5 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.70

100000

80000

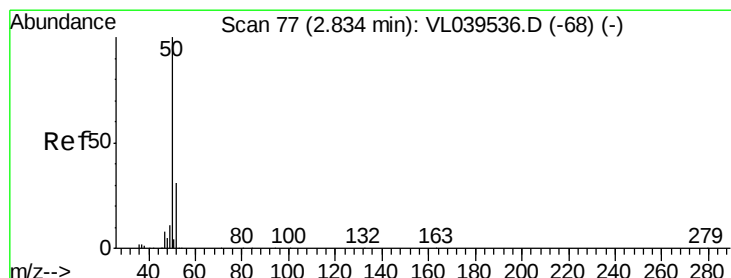
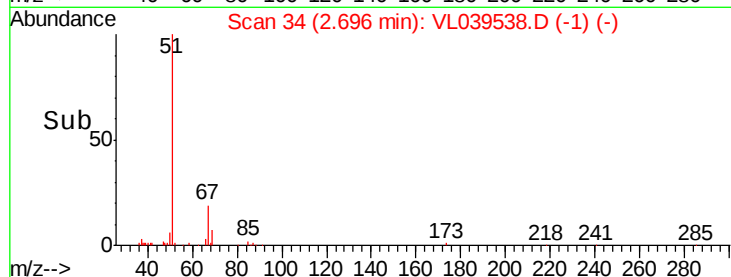
60000

40000

20000

0

Time-->



#4

Chloromethane

Concen: 1.106 ppbv

RT: 2.83 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL039538.D

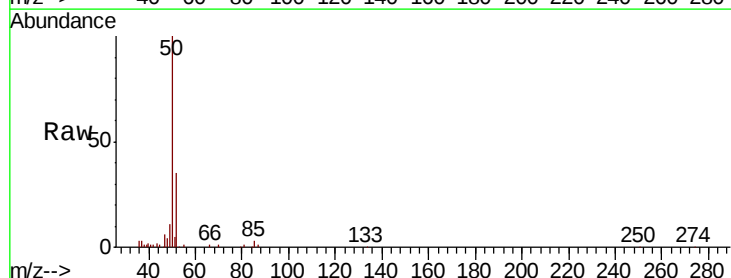
Acq: 17 Aug 2022 4:56

Tgt Ion: 50 Resp: 85024

Ion Ratio Lower Upper

50 100

52 35.9 24.3 36.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

2.83

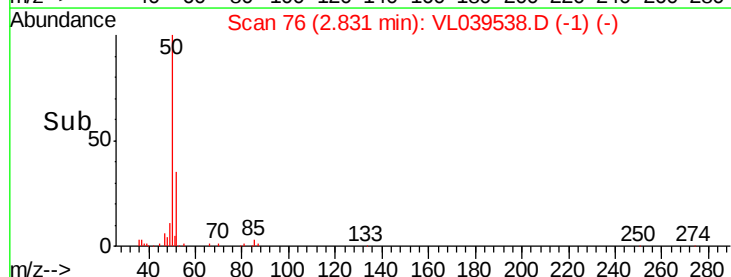
60000

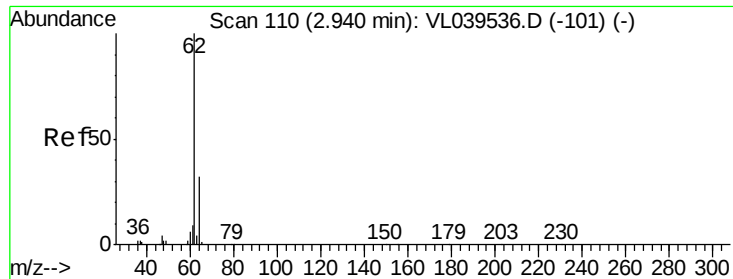
40000

20000

0

Time-->





#5

Vinyl Chloride

Concen: 0.923 ppbv

RT: 2.94 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDIC001

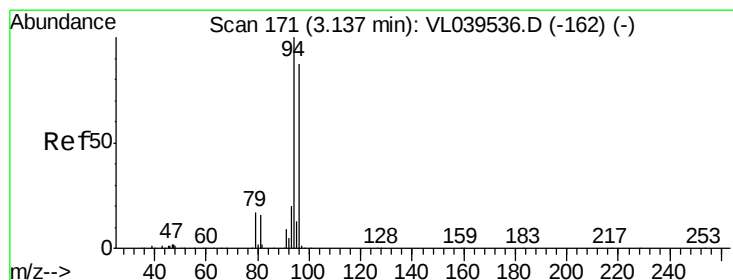
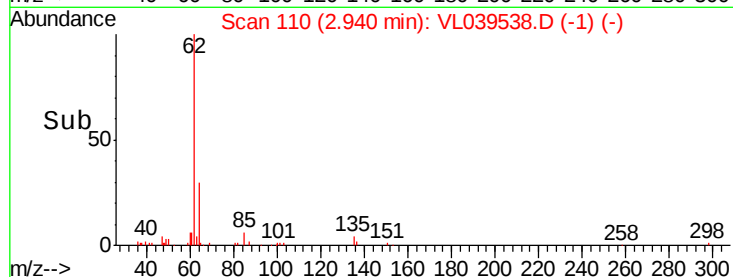
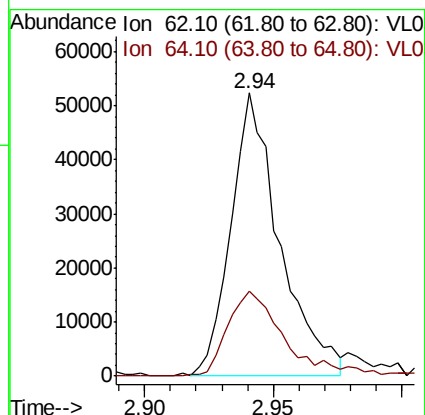
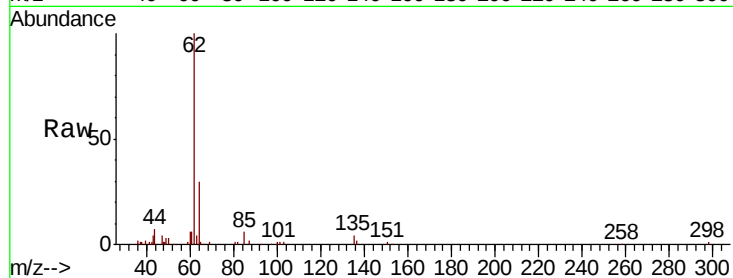
Acq: 17 Aug 2022 4:56

Tot Ion: 62 Resp: 69090

Ion Ratio Lower Upper

62 100

64 30.8 25.5 38.3



#6

Bromomethane

Concen: 0.392 ppbv

RT: 3.14 min Scan# 171

Delta R.T. 0.00 min

Lab File: VL039538.D

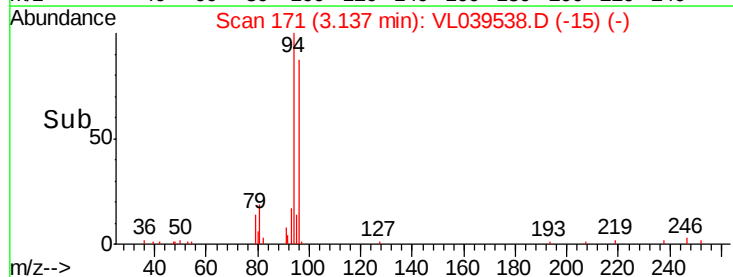
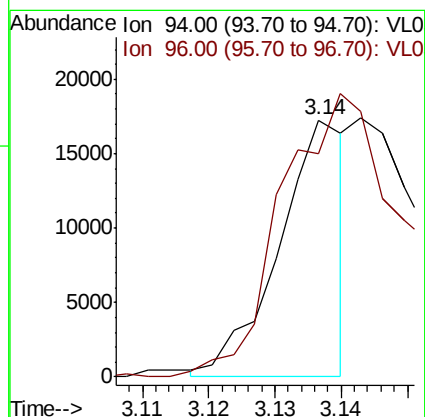
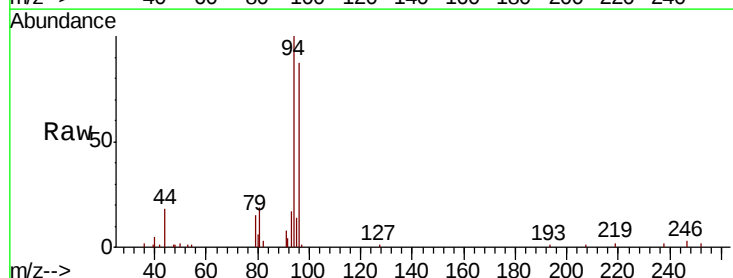
Acq: 17 Aug 2022 4:56

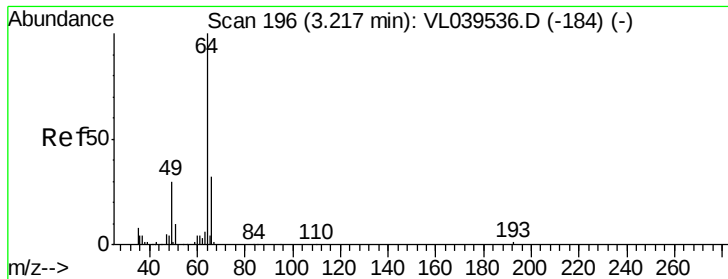
Tgt Ion: 94 Resp: 12046

Ion Ratio Lower Upper

94 100

96 87.7 69.8 104.6





#7

Chloroethane

Concen: 0.853 ppbv

RT: 3.22 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

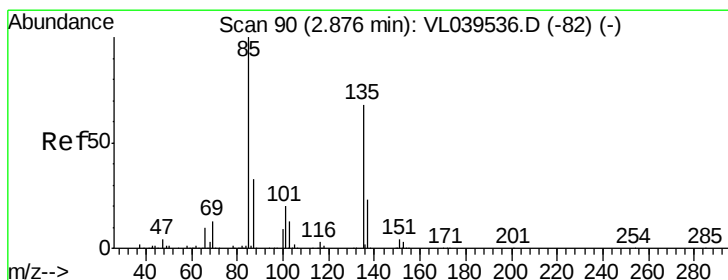
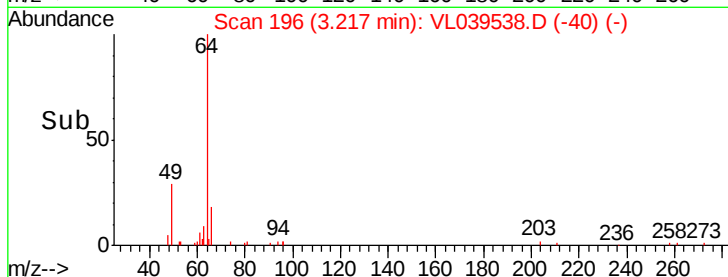
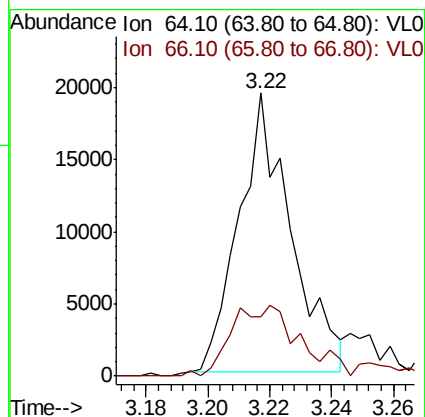
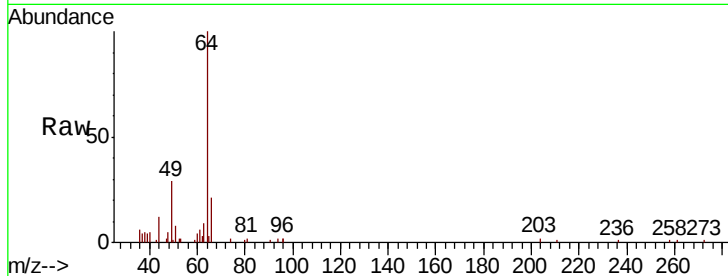
Acq: 17 Aug 2022 4:56

Tot Ion: 64 Resp: 22556

Ion Ratio Lower Upper

64 100

66 21.2 25.6 38.4#



#8

Dichlorotetrafluoroethane

Concen: 1.010 ppbv

RT: 2.88 min Scan# 90

Delta R.T. 0.00 min

Lab File: VL039538.D

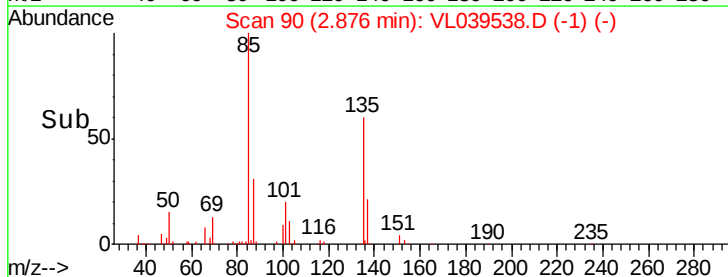
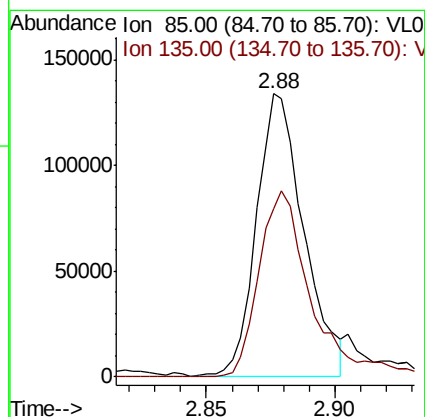
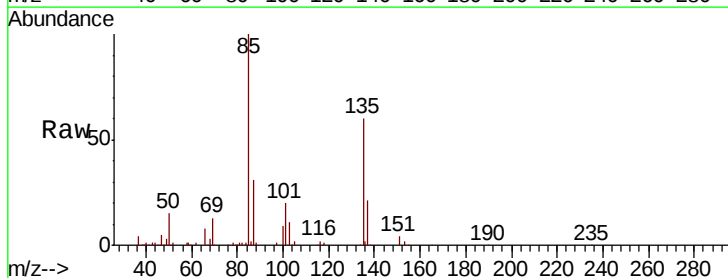
Acq: 17 Aug 2022 4:56

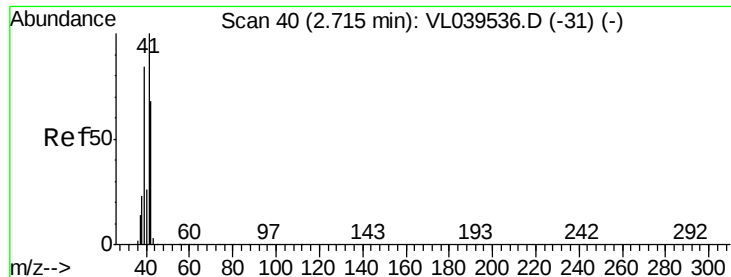
Tgt Ion: 85 Resp: 172437

Ion Ratio Lower Upper

85 100

135 74.4 56.3 84.5





#9

Propene

Concen: 0.998 ppbv

RT: 2.72 Instrument: MSVOA\_1

Delta R.T. -0.00 min

Lab File: ClientSampleId: VSTDIC001

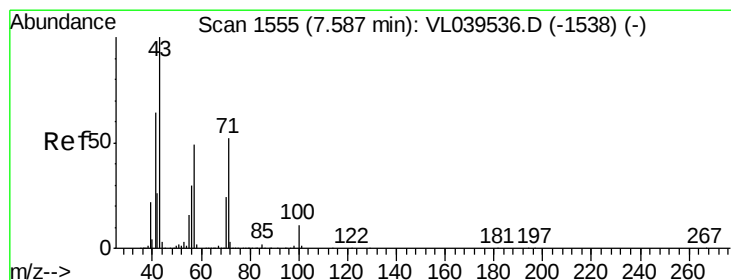
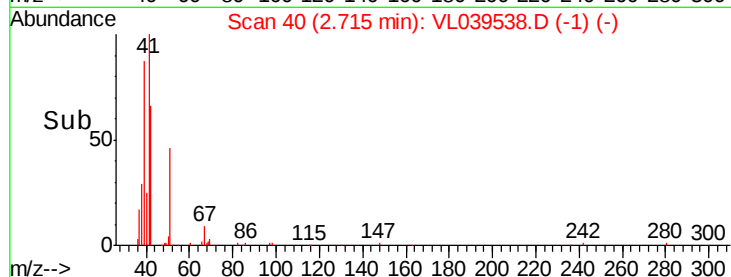
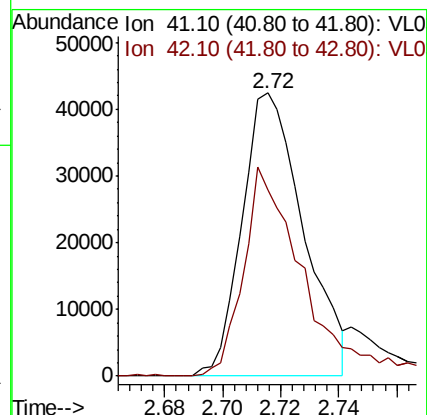
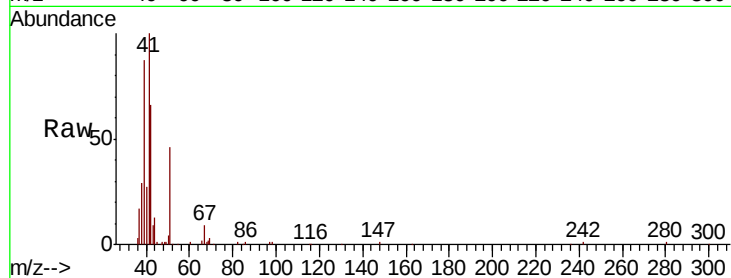
Acq: 17 Aug 2022 4:56

Tot Ion: 41 Resp: 62441

Ion Ratio Lower Upper

41 100

42 75.8 55.4 83.0



#10

Heptane

Concen: 0.997 ppbv

RT: 7.58 min Scan# 1554

Delta R.T. -0.00 min

Lab File: VL039538.D

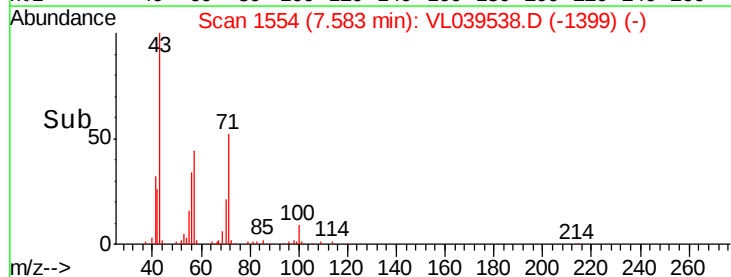
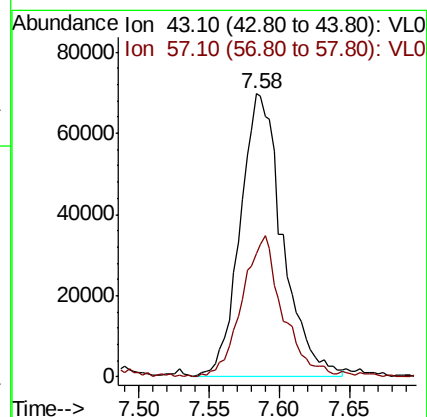
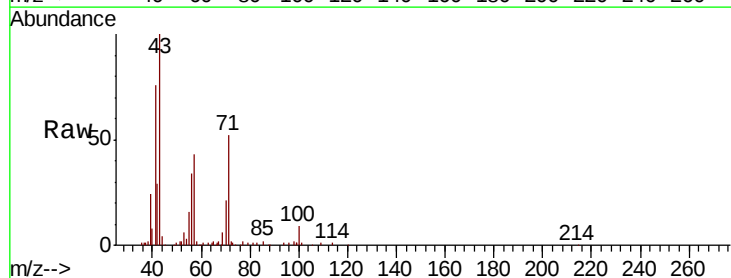
Acq: 17 Aug 2022 4:56

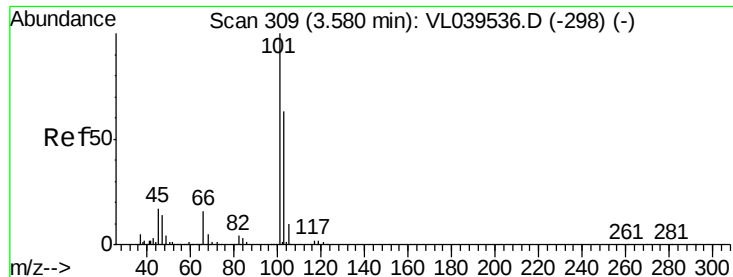
Tgt Ion: 43 Resp: 145516

Ion Ratio Lower Upper

43 100

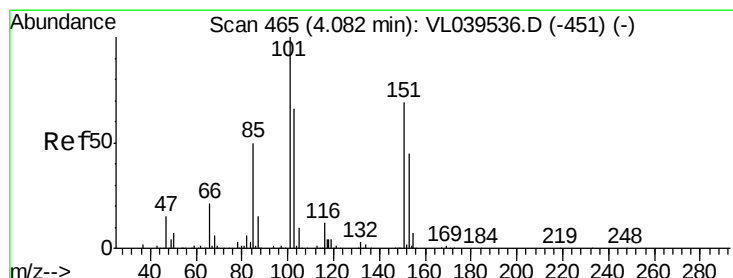
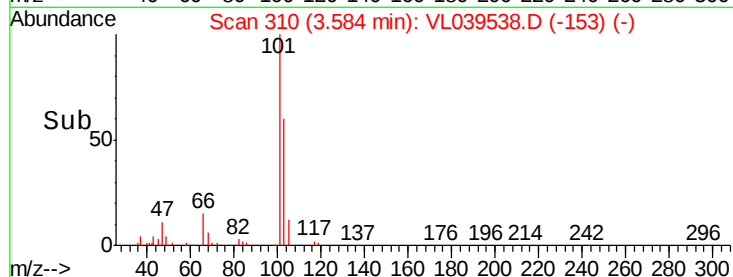
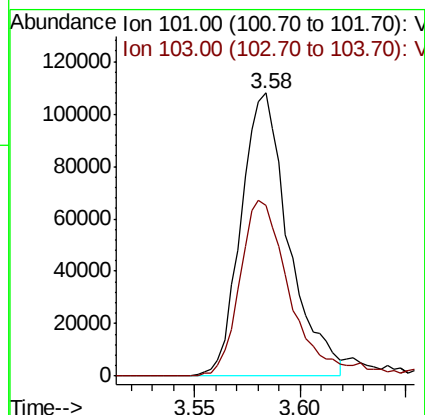
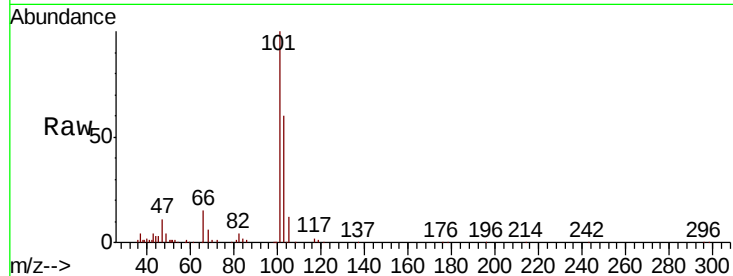
57 49.6 39.8 59.6





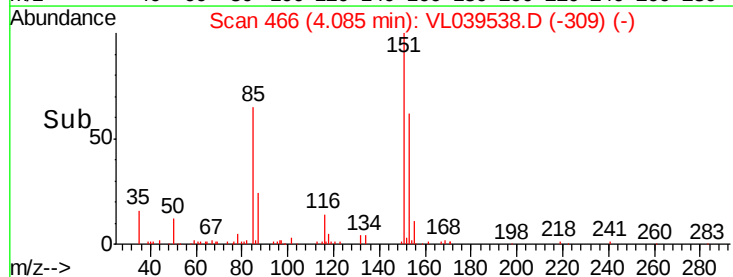
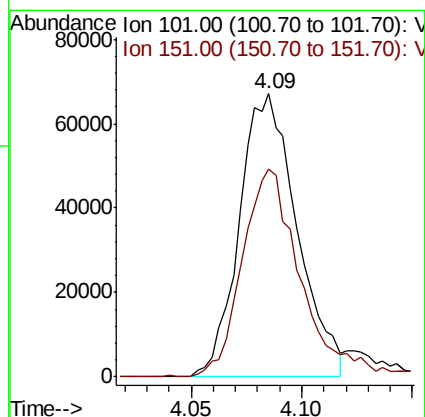
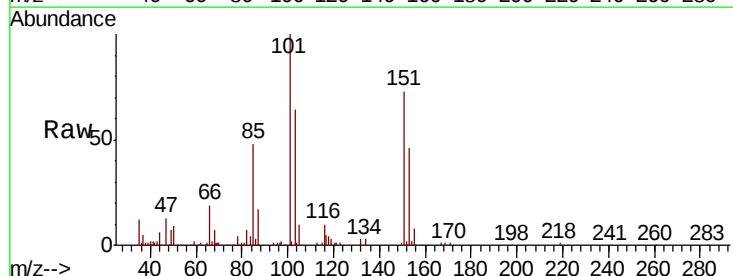
#11  
 Trichlorofluoromethane  
 Concen: 0.978 ppbv  
 RT: 3.58  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDIC001  
 Acq: 17 Aug 2022 4:58

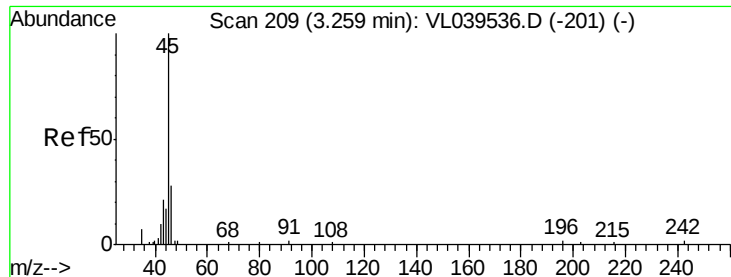
Tot Ion:101 Resp: 170053  
 Ion Ratio Lower Upper  
 101 100  
 103 60.3 50.6 76.0



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.947 ppbv  
 RT: 4.09 min Scan# 466  
 Delta R.T. 0.00 min  
 Lab File: VL039538.D  
 Acq: 17 Aug 2022 4:56

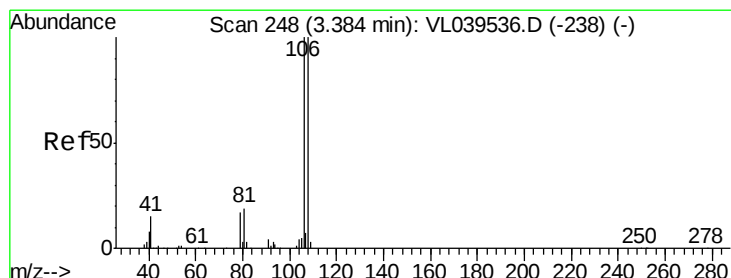
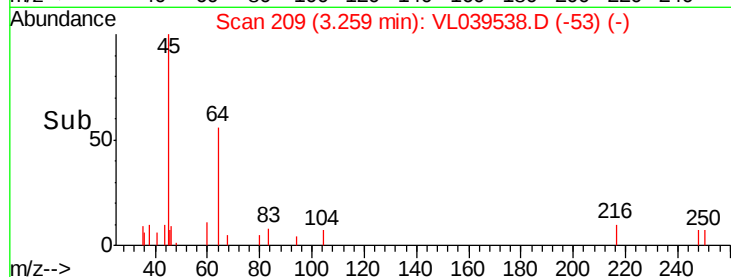
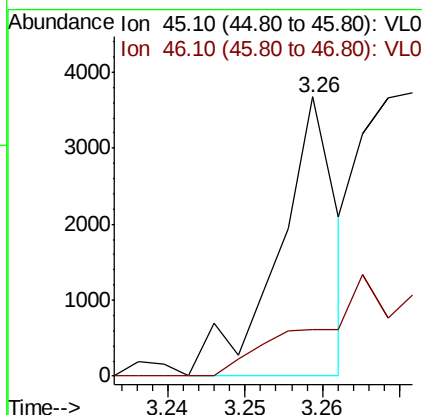
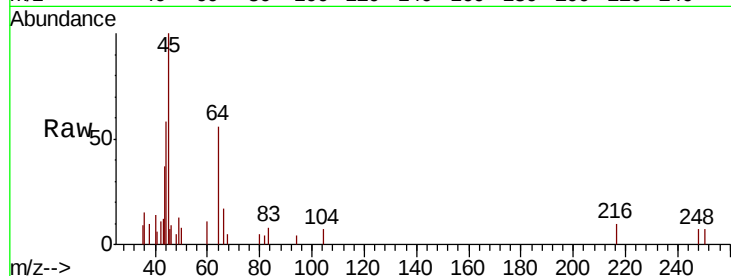
Tgt Ion:101 Resp: 121873  
 Ion Ratio Lower Upper  
 101 100  
 151 76.6 58.6 87.8





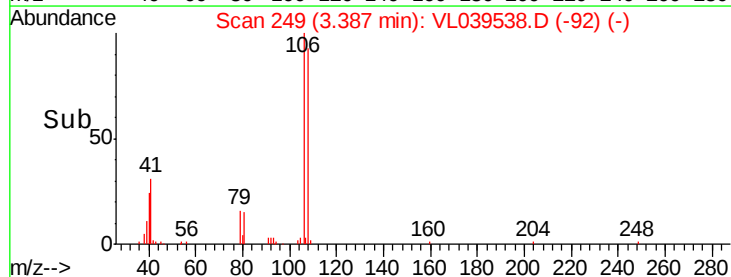
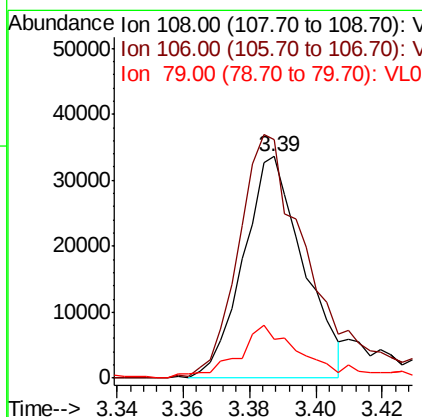
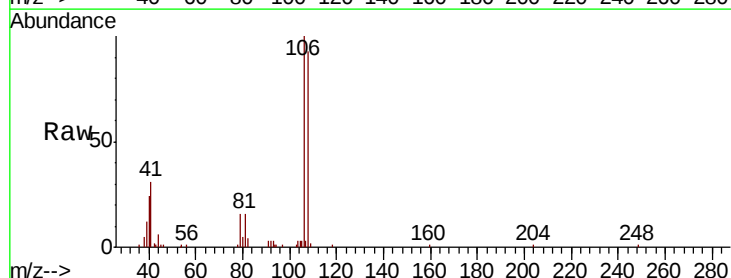
#13  
Ethanol  
Concen: 0.521 ppbv  
RT: 3.26  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 17 Aug 2022 4:56

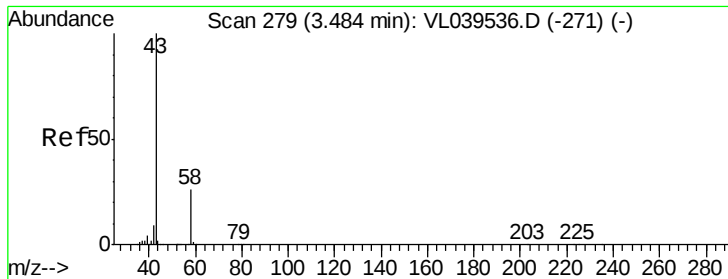
Tot Ion: 45 Resp: 1896  
Ion Ratio Lower Upper  
45 100  
46 171.4 19.3 77.1#



#14  
Bromoethene  
Concen: 0.778 ppbv  
RT: 3.39 min Scan# 249  
Delta R.T.: 0.00 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

Tgt Ion: 108 Resp: 42321  
Ion Ratio Lower Upper  
108 100  
106 139.2 86.6 130.0#  
79 30.1 15.1 22.7#





#15

Acetone

Concen: 1.045 ppbv

RT: 3.49 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

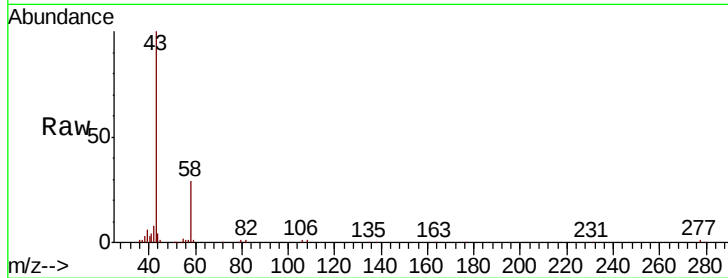
Acq: 17 Aug 2022 4:56

Tot Ion: 43 Resp: 133818

Ion Ratio Lower Upper

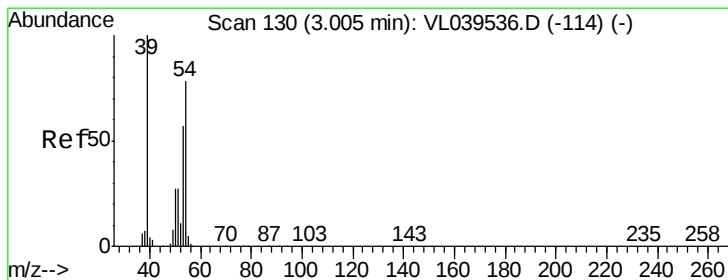
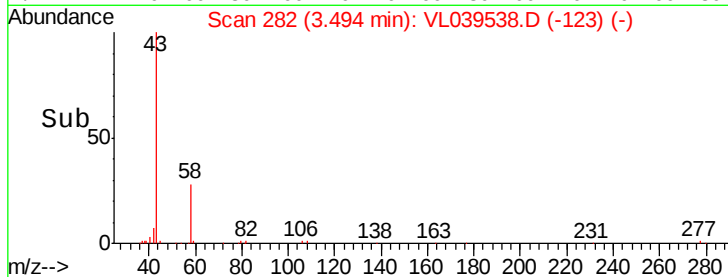
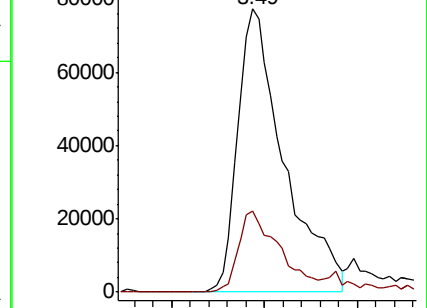
43 100

58 29.4 20.7 31.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.993 ppbv

RT: 3.00 min Scan# 130

Delta R.T. 0.00 min

Lab File: VL039538.D

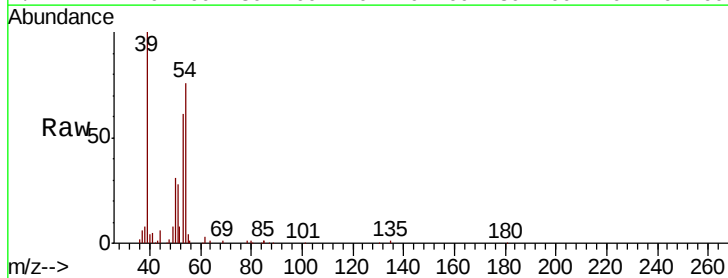
Acq: 17 Aug 2022 4:56

Tgt Ion: 39 Resp: 66360

Ion Ratio Lower Upper

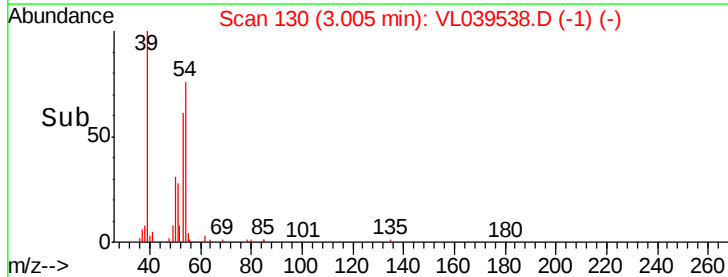
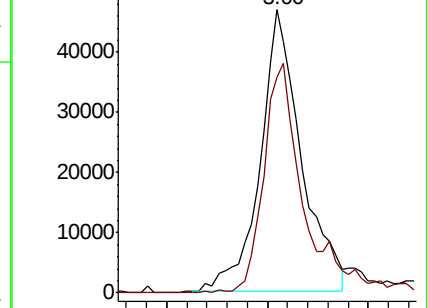
39 100

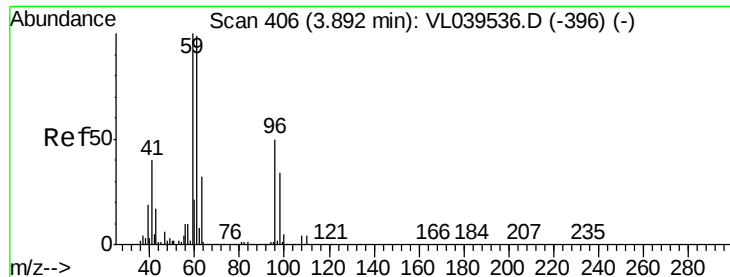
54 82.0 61.8 92.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 1.014 ppbv

RT: 3.90 min

Delta R.T. 0.00 min

Lab File: VL039536.D

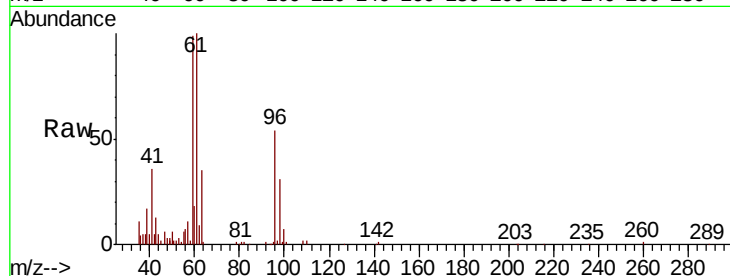
Acq: 17 Aug 2022 4:56

Tot Ion: 59 Resp: 109080

Ion Ratio Lower Upper

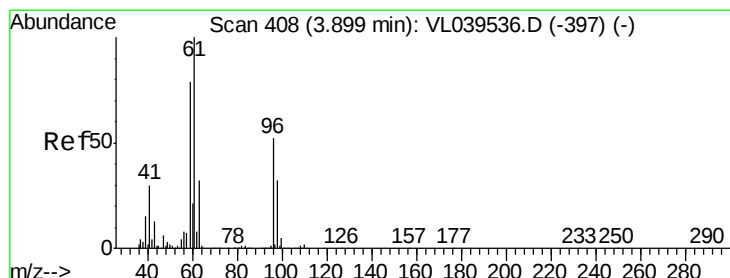
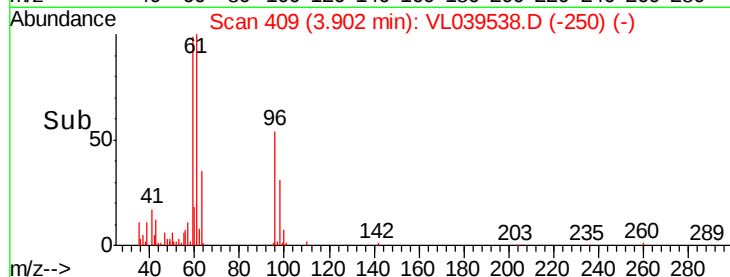
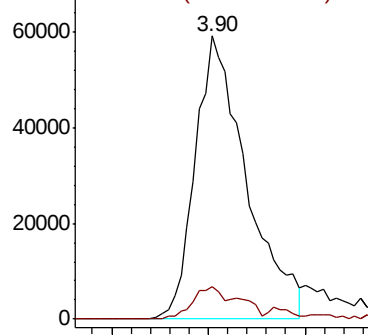
59 100

57 13.1 8.6 12.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.893 ppbv

RT: 3.90 min Scan# 408

Delta R.T. 0.00 min

Lab File: VL039538.D

Acq: 17 Aug 2022 4:56

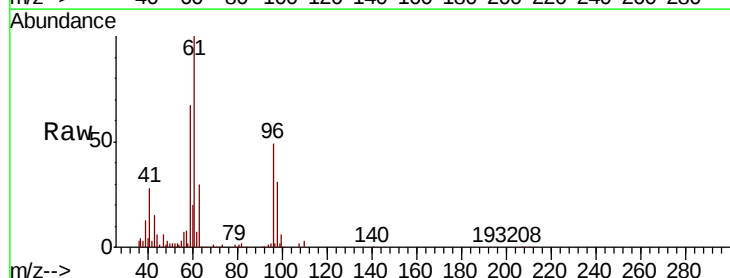
Tgt Ion: 96 Resp: 52090

Ion Ratio Lower Upper

96 100

61 205.9 153.8 230.6

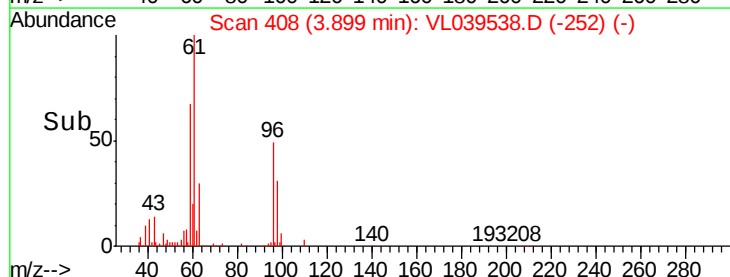
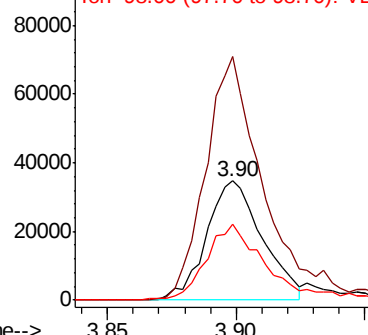
98 63.6 48.6 73.0

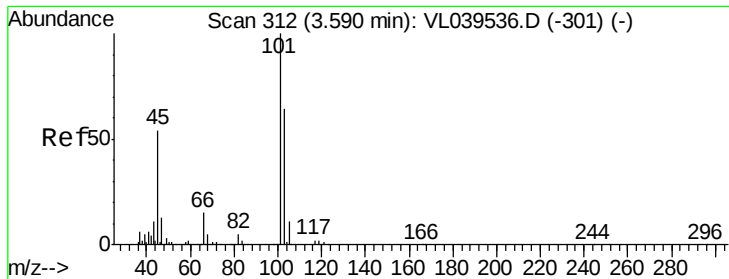


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.812 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

VSTDIC001

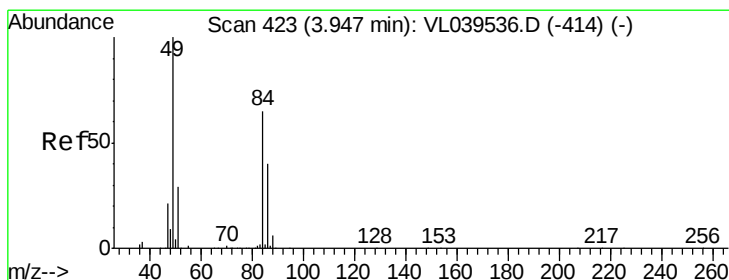
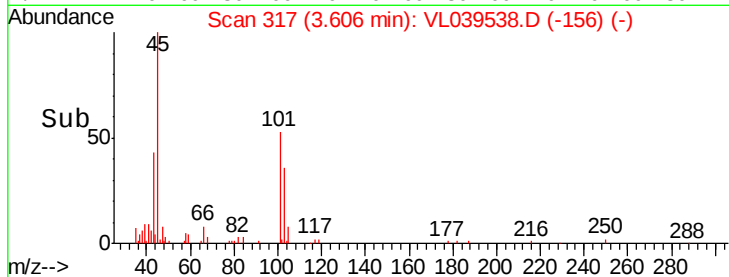
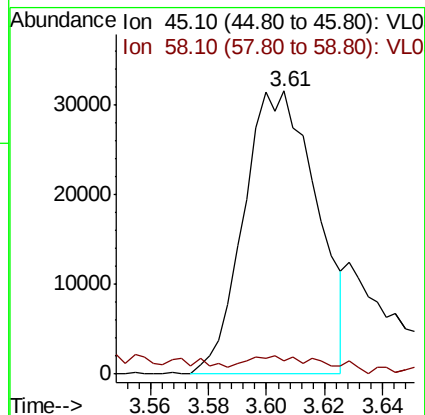
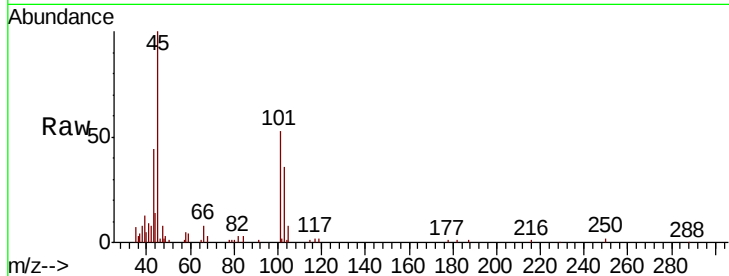
Acq: 17 Aug 2022 4:50

Tot Ion: 45 Resp: 55022

Ion Ratio Lower Upper

45 100

58 5.3 0.0 0.0#



#20

Methylene Chloride

Concen: 1.078 ppbv

RT: 3.95 min Scan# 424

Delta R.T. 0.00 min

Lab File: VL039538.D

Acq: 17 Aug 2022 4:56

Tgt Ion: 84 Resp: 54965

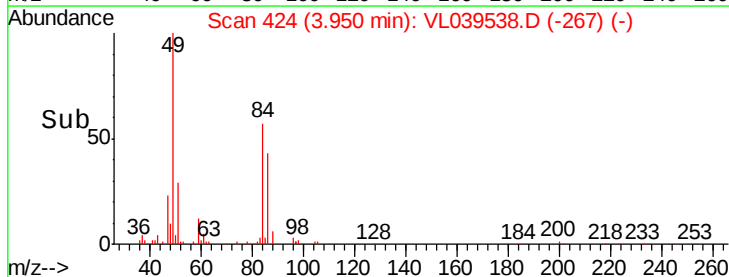
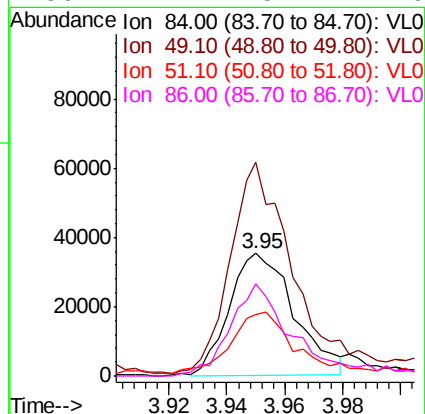
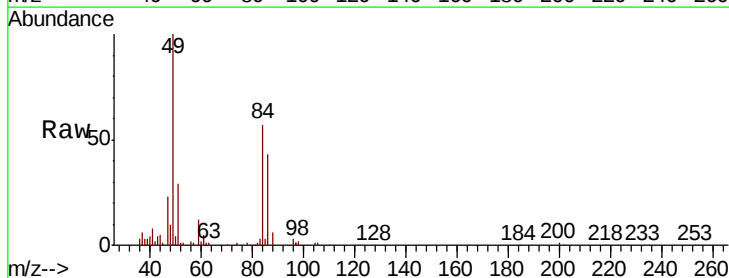
Ion Ratio Lower Upper

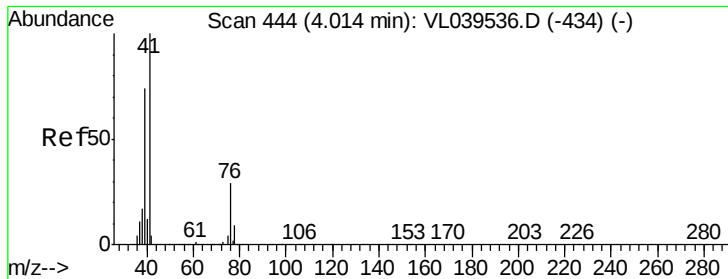
84 100

49 169.3 122.2 183.4

51 45.6 35.8 53.6

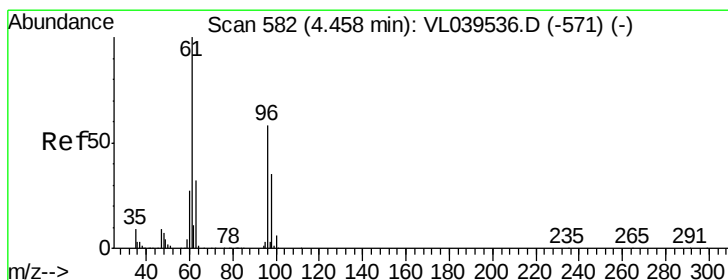
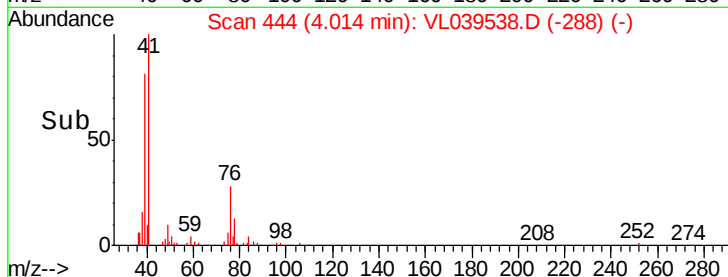
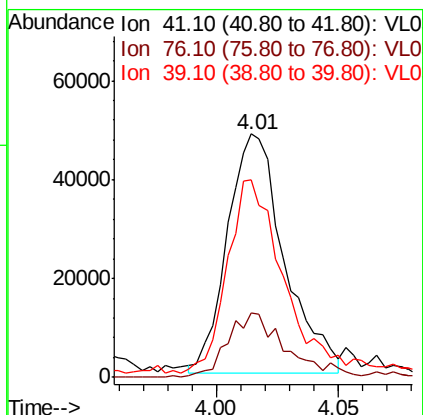
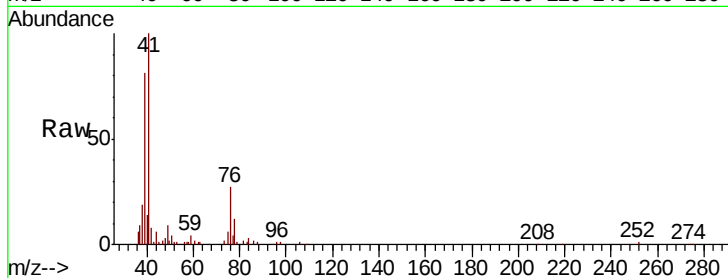
86 74.2 48.4 72.6#





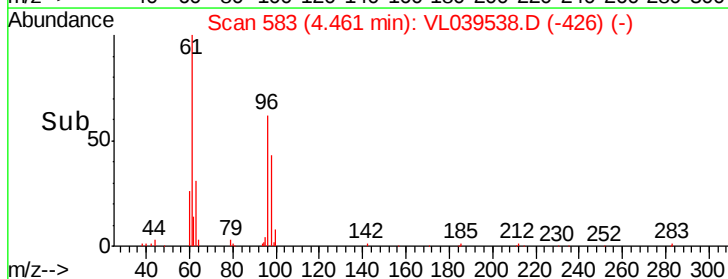
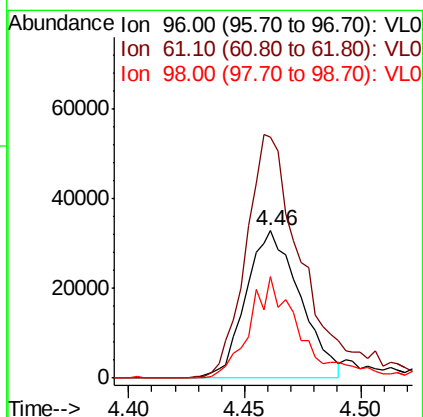
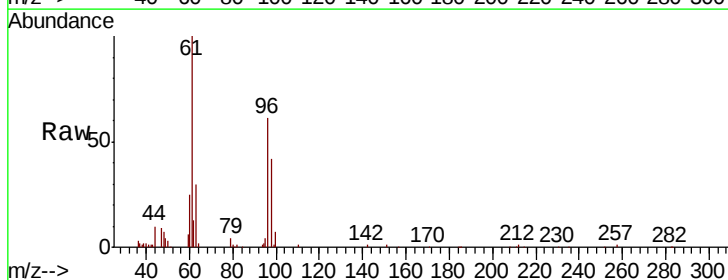
#21  
 Allvl Chloride  
 Concen: 0.882 ppbv  
 RT: 4.01 min  
 Delta R.T. MSVOA\_1  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 17 Aug 2022 4:58

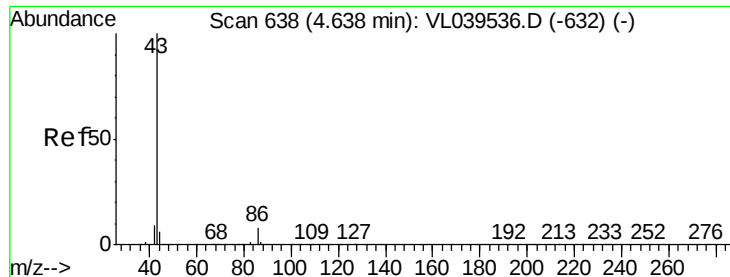
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 76      | 29.4  | 23.1  | 34.7  |
| 39      | 85.2  | 63.4  | 95.2  |



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.947 ppbv  
 RT: 4.46 min Scan# 583  
 Delta R.T. 0.00 min  
 Lab File: VL039538.D  
 Acq: 17 Aug 2022 4:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 164.2 | 138.1 | 207.1 |
| 98      | 69.1  | 48.8  | 73.2  |





#23

Vinyl Acetate

Concen: 0.659 ppbv

RT: 4.64 Instrument:

Delta R.T. MSVOA\_1

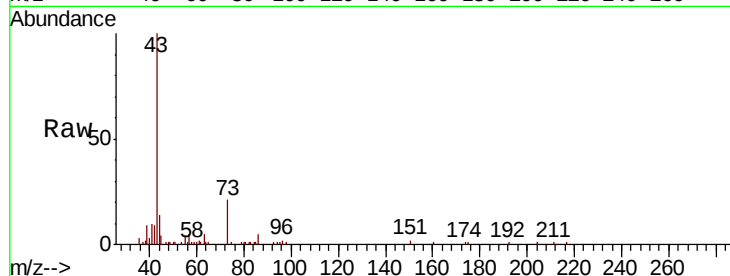
Lab File: ClientSampleId:

VSTDIC001

Acq: 17 Aug 2022 4:58

Tot Ion: 43 Resp: 53737

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 4.8   | 5.3   | 7.9#  |
| 42  | 3.9   | 8.7   | 13.1# |
| 44  | 5.5   | 5.1   | 7.7   |

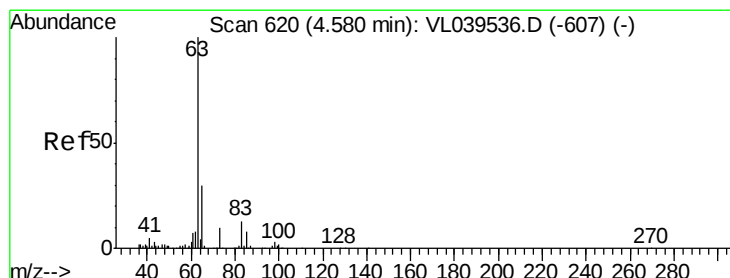
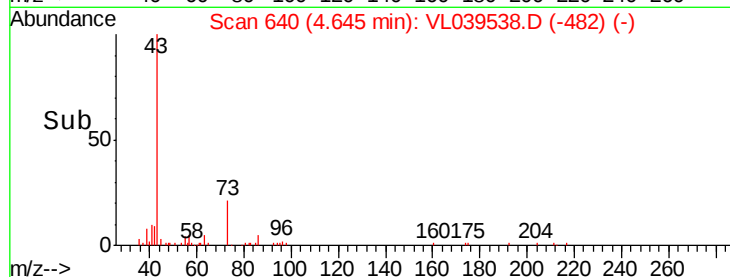
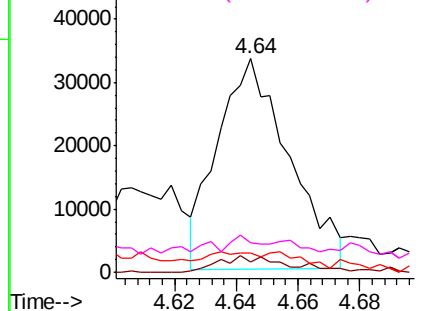


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.944 ppbv

RT: 4.58 min Scan# 619

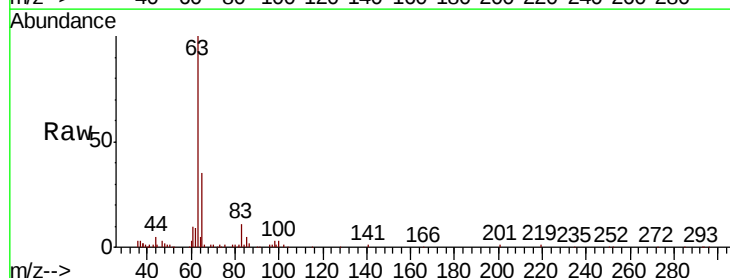
Delta R.T. -0.00 min

Lab File: VL039538.D

Acq: 17 Aug 2022 4:56

Tgt Ion: 63 Resp: 114125

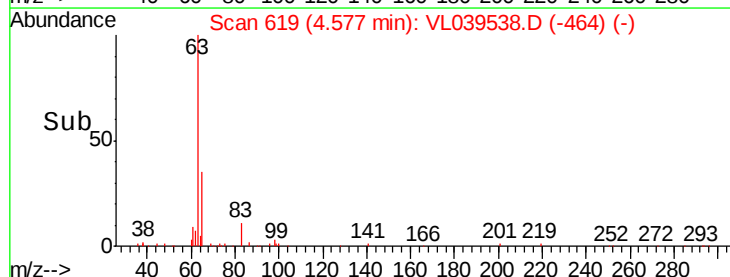
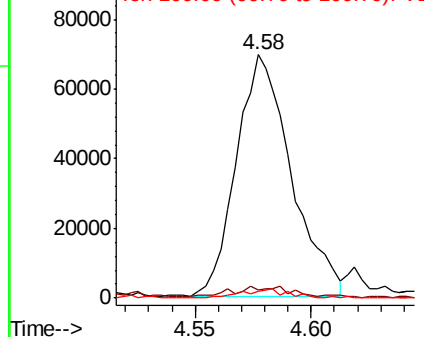
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 2.6   | 1.7   | 5.0   |
| 100 | 3.1   | 1.1   | 3.3   |

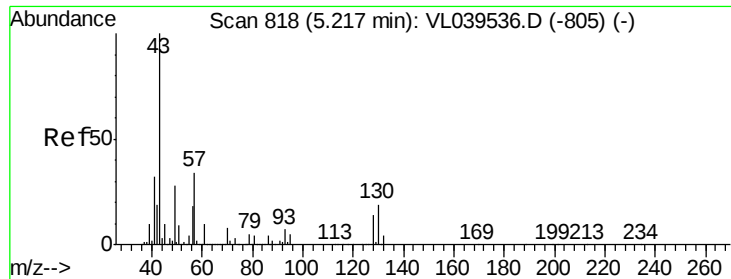


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

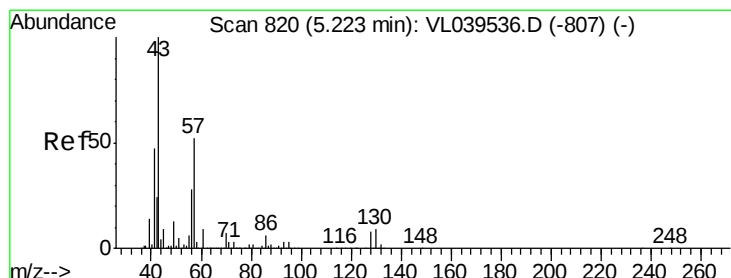
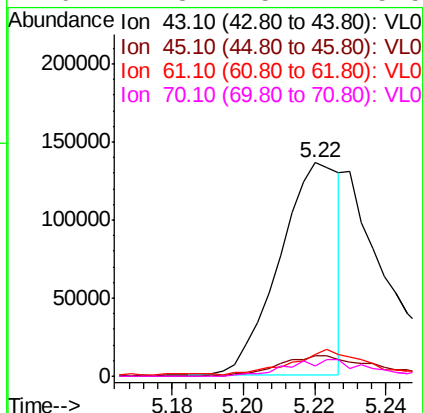
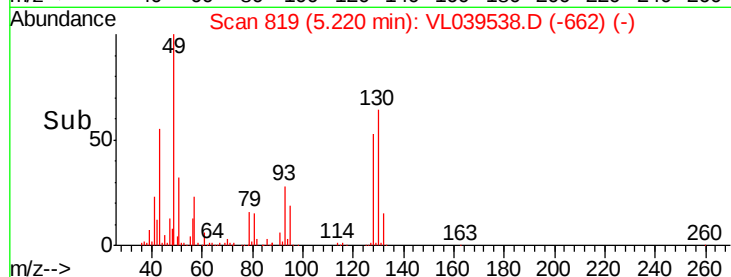
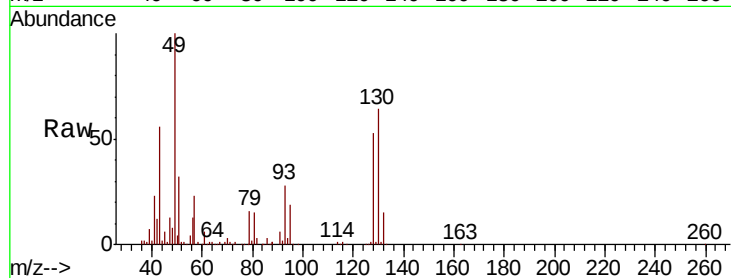
Ion 100.00 (99.70 to 100.70): VL0





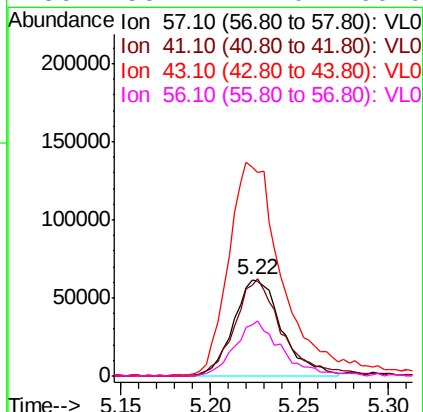
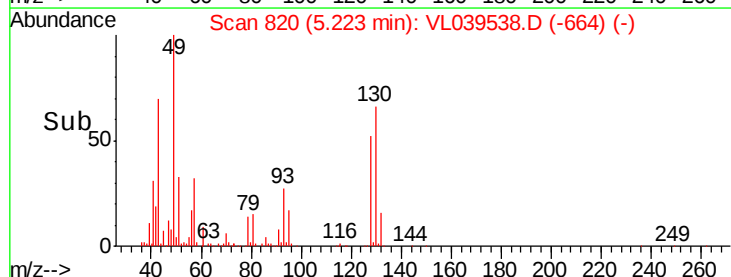
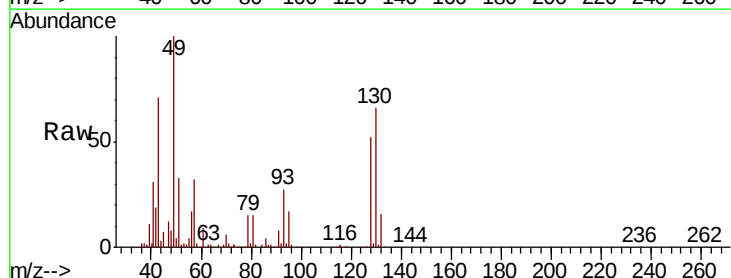
#25  
Ethyl Acetate  
Concen: 0.598 ppbv  
RT: 5.22 min  
Delta R.T.: 0.00 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

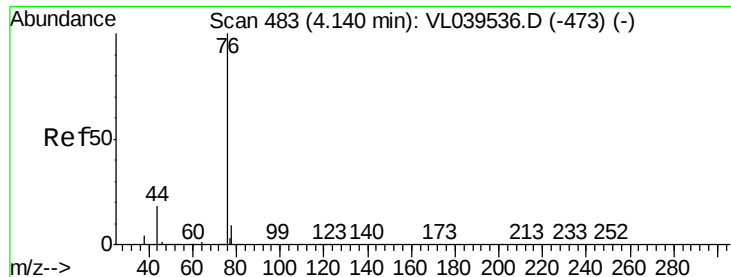
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 45      | 18.9  | 8.2   | 12.4# |
| 61      | 21.0  | 8.6   | 12.8# |
| 70      | 11.8  | 5.7   | 8.5#  |



#26  
Hexane  
Concen: 1.102 ppbv  
RT: 5.22 min Scan# 820  
Delta R.T.: 0.00 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

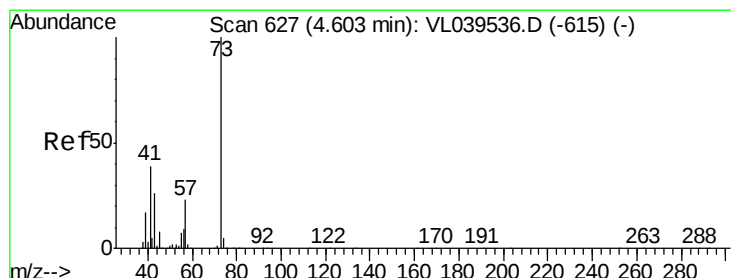
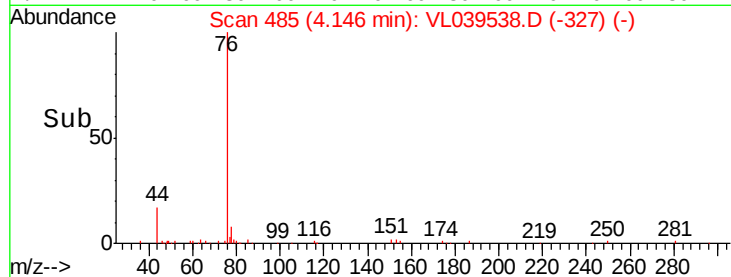
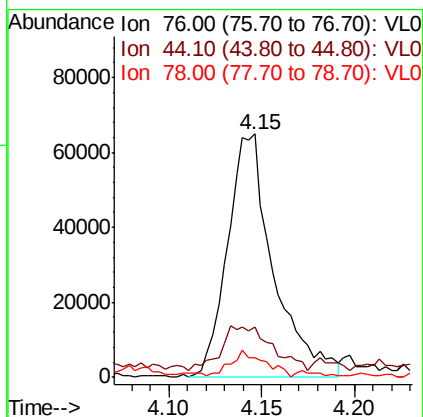
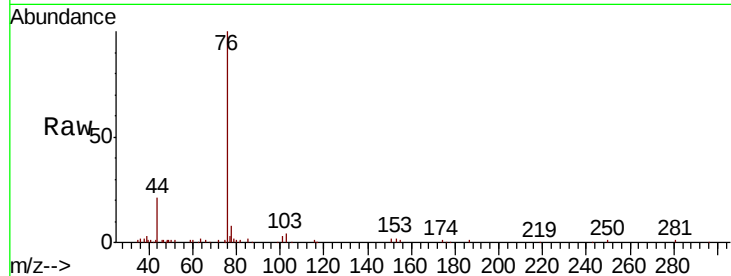
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 102.6 | 79.4  | 119.2 |
| 43      | 265.7 | 199.7 | 299.5 |
| 56      | 56.7  | 44.0  | 66.0  |





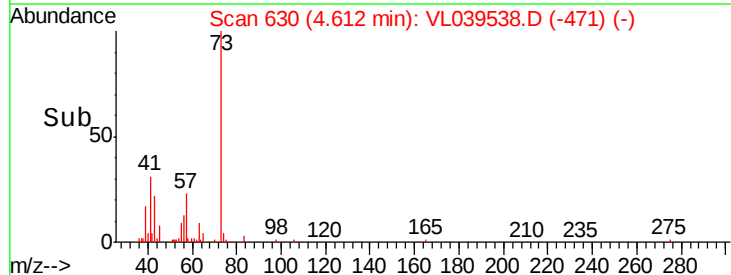
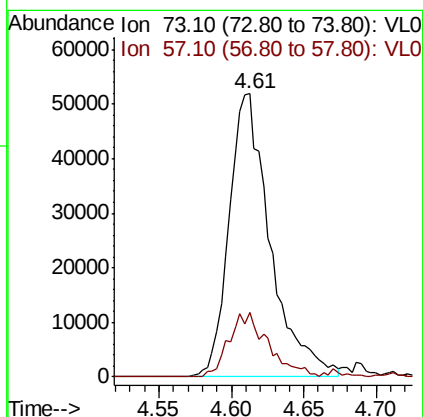
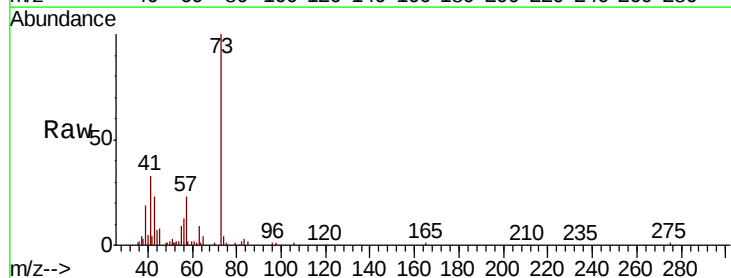
#27  
Carbon Disulfide  
Concen: 0.882 ppbv  
RT: 4.15  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Aug 2022 4:56

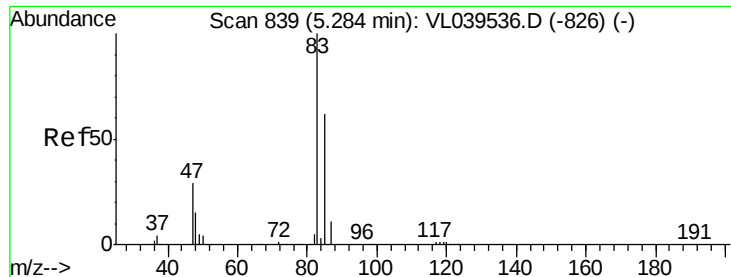
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 22.3  | 16.3  | 24.5  |
| 78      | 10.7  | 7.8   | 11.6  |



#28  
Methyl tert-Butyl Ether  
Concen: 0.915 ppbv  
RT: 4.61 min Scan# 630  
Delta R.T. 0.01 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

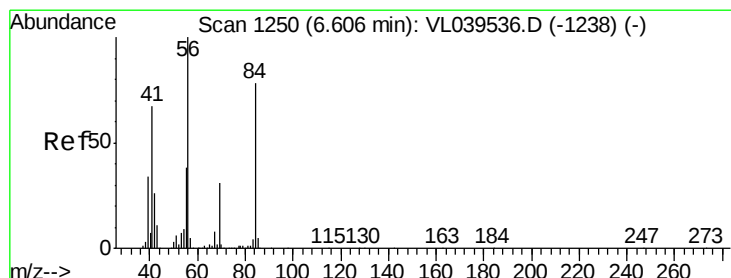
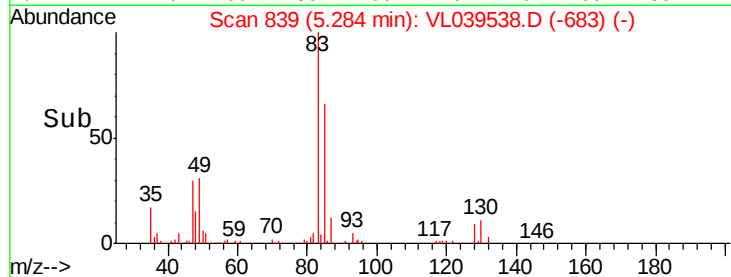
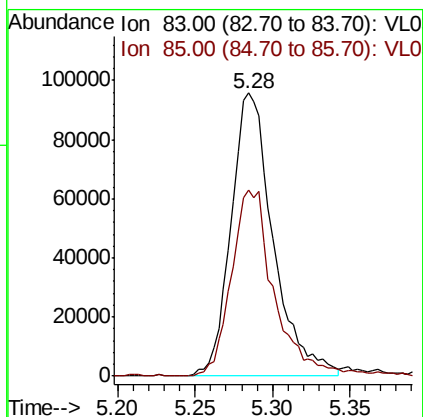
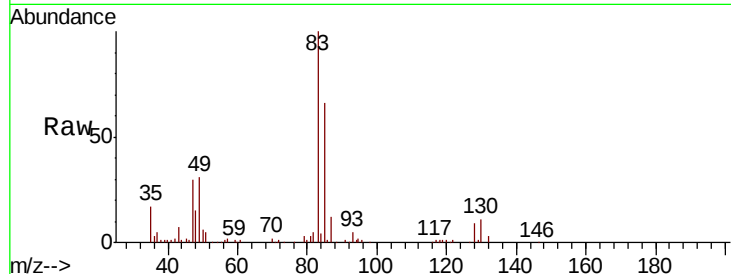
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 22.9  | 19.8  | 29.6  |





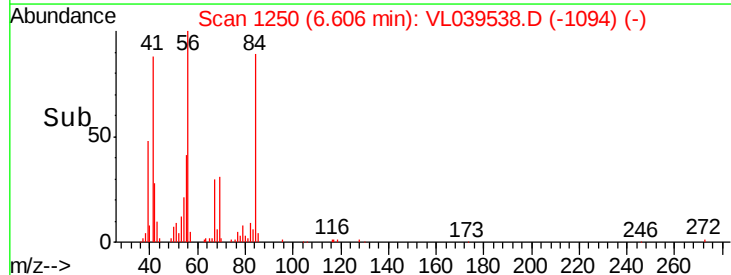
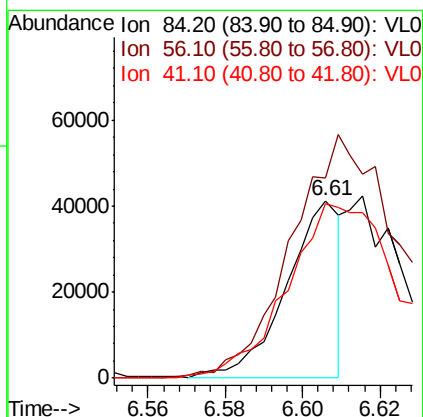
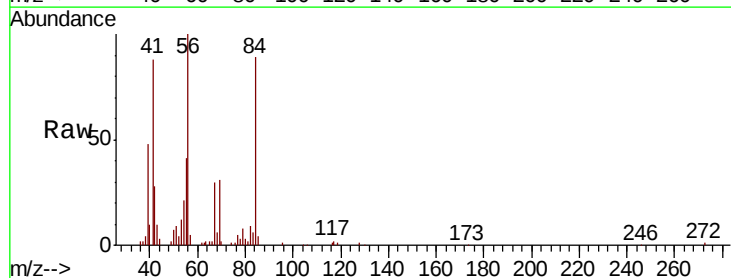
#29  
Chloroform  
Concen: 0.980 ppbv  
RT: 5.28  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Aug 2022 4:56

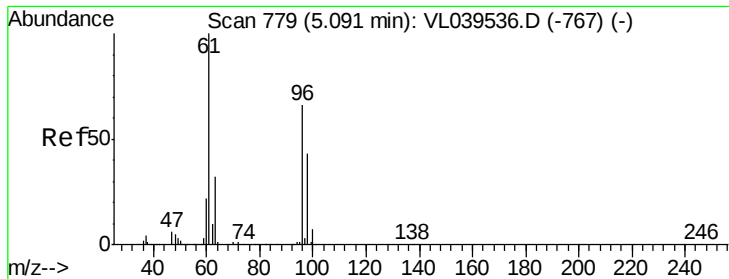
Tot Ion: 83 Resp: 179475  
Ion Ratio Lower Upper  
83 100  
85 65.7 49.8 74.8



#30  
Cyclohexane  
Concen: 0.412 ppbv  
RT: 6.61 min Scan# 1250  
Delta R.T. 0.00 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

Tgt Ion: 84 Resp: 39603  
Ion Ratio Lower Upper  
84 100  
56 286.9 0.0 0.0#  
41 219.1 0.0 0.0#





#31

cis-1,2-Dichloroethene

Concen: 0.918 ppbv

RT: 5.09 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

VSTDIC001

Acq: 17 Aug 2022 4:56

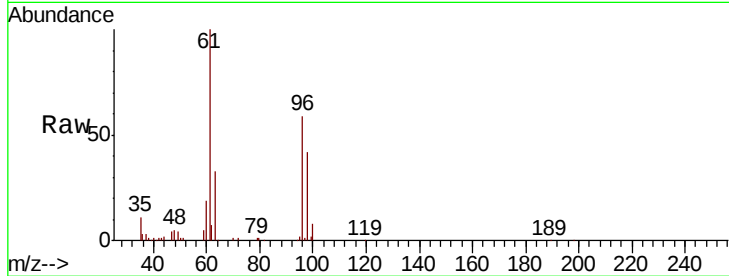
Tot Ion: 61 Resp: 102788

Ion Ratio Lower Upper

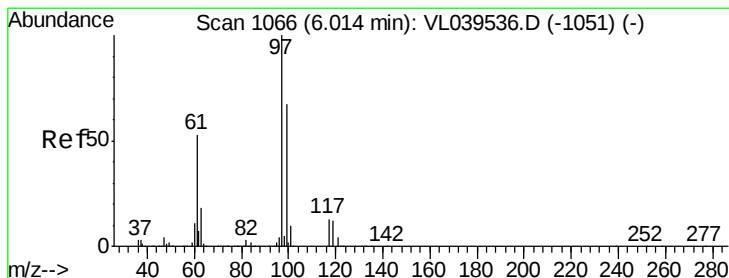
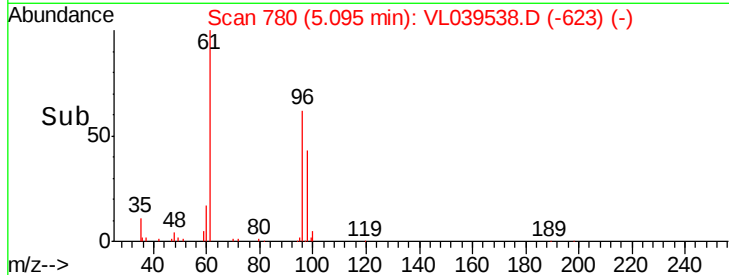
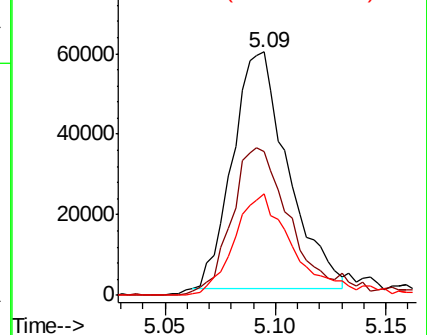
61 100

96 54.8 52.9 79.3

98 39.2 34.5 51.7



Abundance Ion 61.10 (60.80 to 61.80): VL0  
Ion 96.00 (95.70 to 96.70): VL0  
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.914 ppbv

RT: 6.01 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VL039538.D

Acq: 17 Aug 2022 4:56

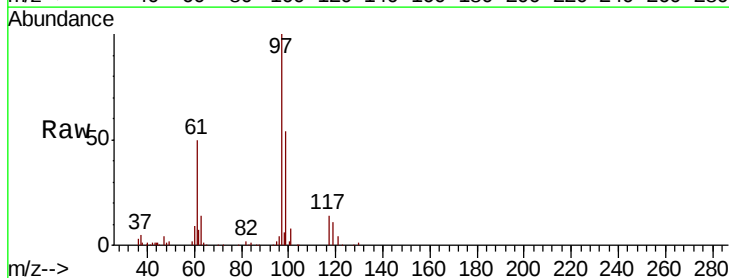
Tgt Ion: 97 Resp: 165417

Ion Ratio Lower Upper

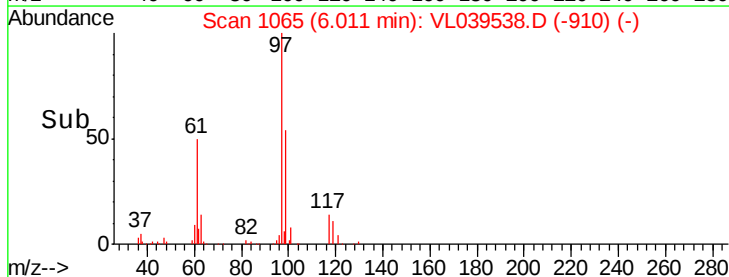
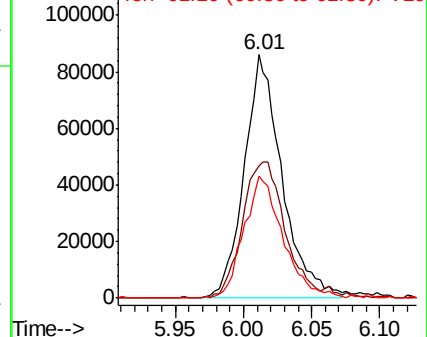
97 100

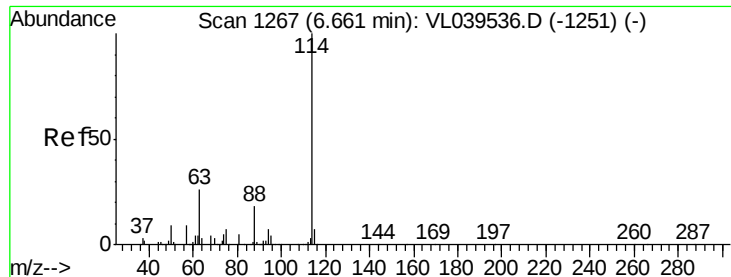
99 65.2 52.4 78.6

61 52.6 42.9 64.3



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.66 Instrument: MSVOA\_1

Delta R.T. ClientSampleId:

Lab File: VSTDIC001

Acq: 17 Aug 2022 4:56

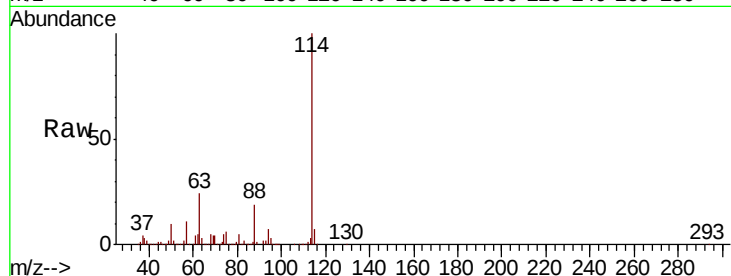
Tot Ion:114 Resp: 2948684

Ion Ratio Lower Upper

114 100

63 25.2 20.6 31.0

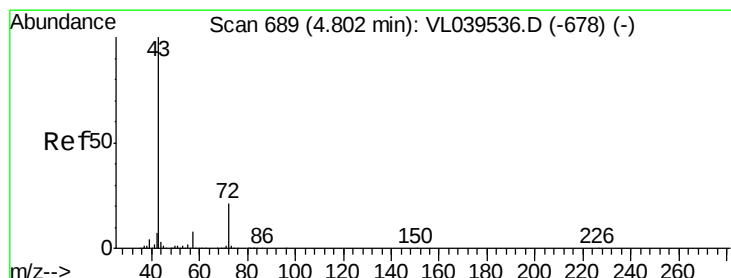
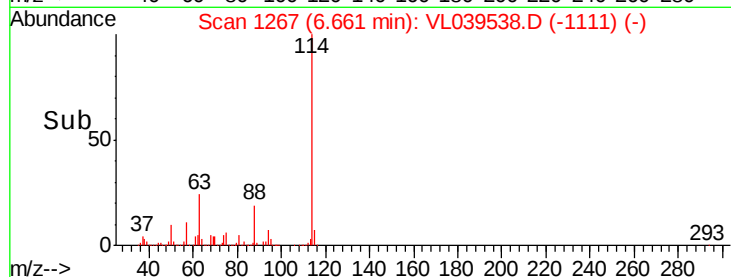
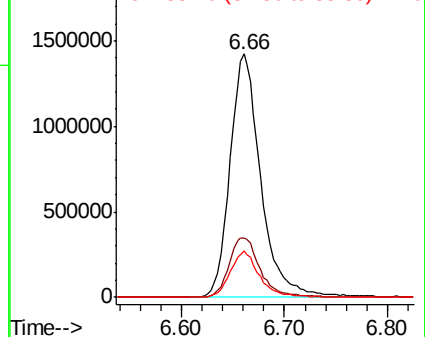
88 18.3 14.6 22.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.072 ppbv

RT: 4.81 min Scan# 691

Delta R.T. 0.01 min

Lab File: VL039538.D

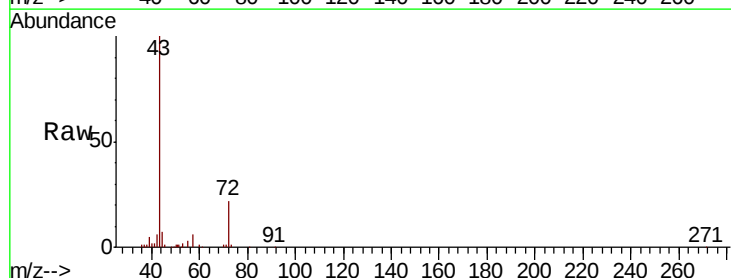
Acq: 17 Aug 2022 4:56

Tgt Ion: 43 Resp: 157112

Ion Ratio Lower Upper

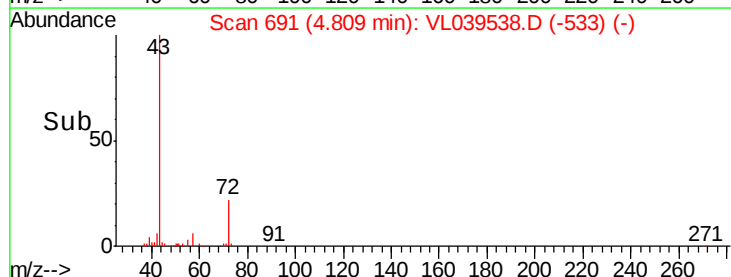
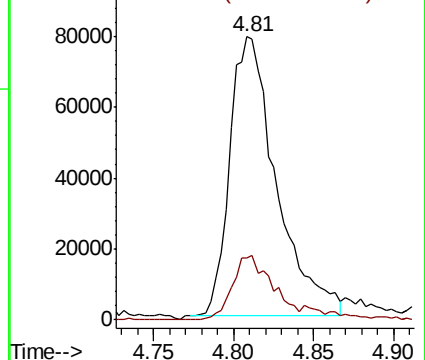
43 100

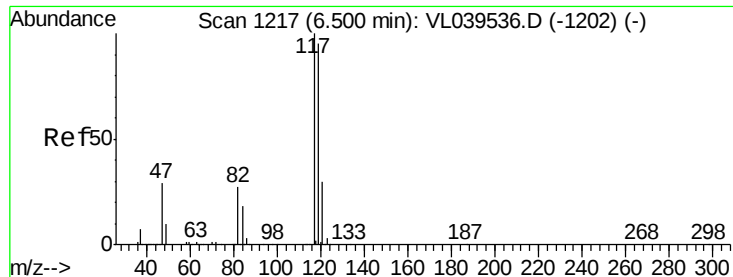
72 23.6 17.4 26.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.483 ppbv

RT: 6.50 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

VSTDIC001

Acq: 17 Aug 2022 4:50

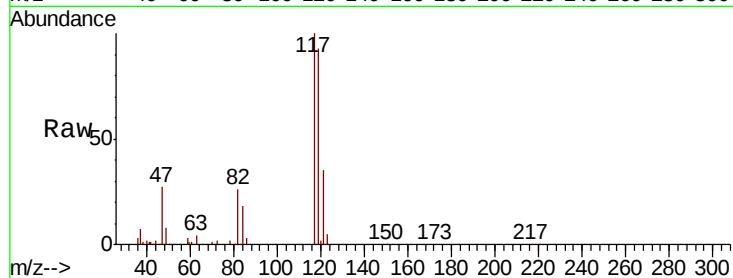
Tot Ion:117 Resp: 86752

Ion Ratio Lower Upper

117 100

119 92.6 76.2 114.4

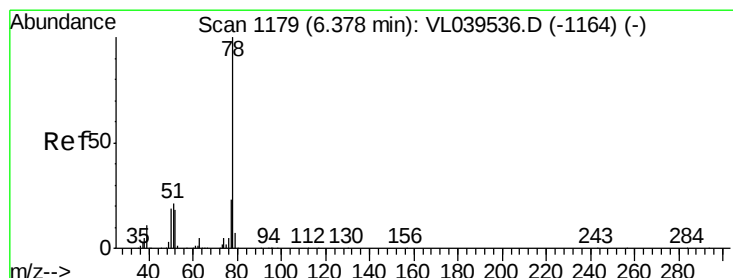
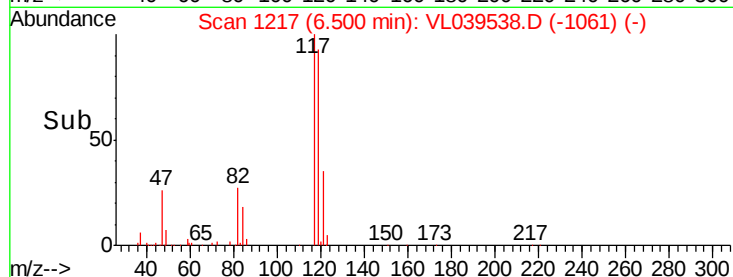
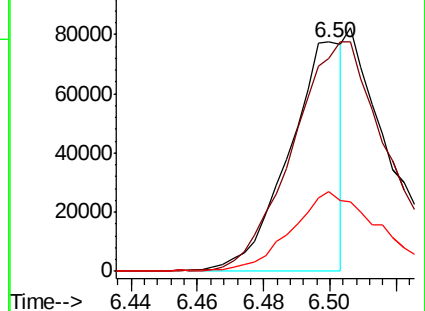
121 34.7 24.4 36.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.032 ppbv

RT: 6.38 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VL039538.D

Acq: 17 Aug 2022 4:56

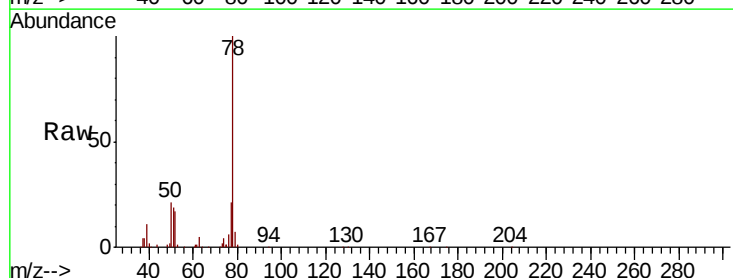
Tgt Ion: 78 Resp: 234389

Ion Ratio Lower Upper

78 100

77 21.1 18.6 27.8

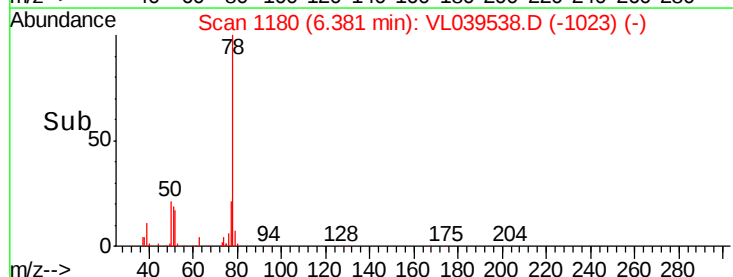
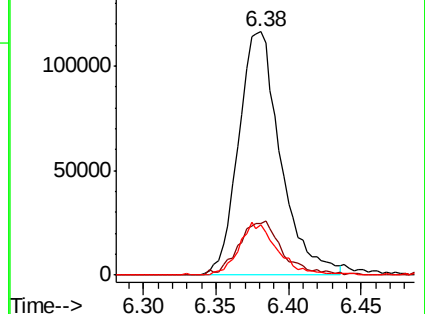
50 20.5 15.0 22.4

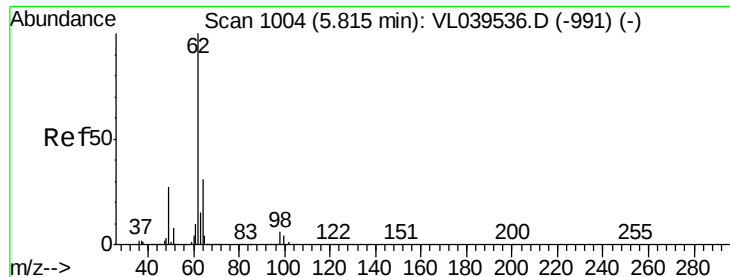


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

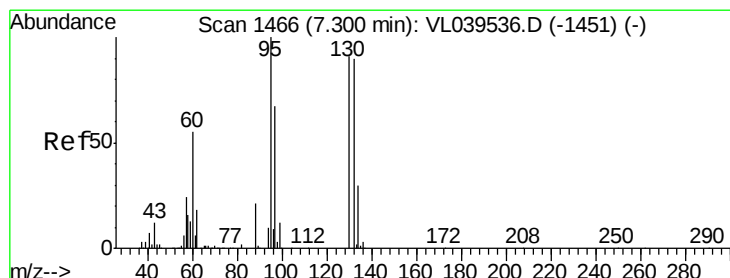
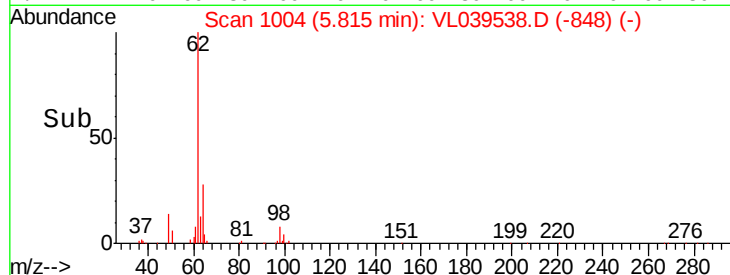
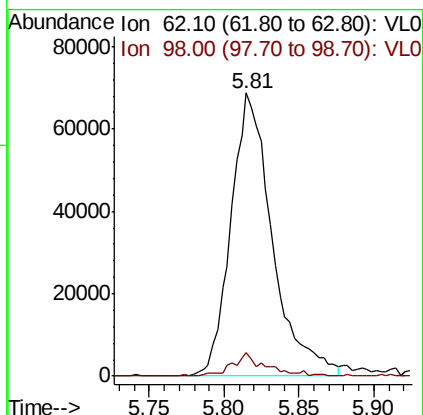
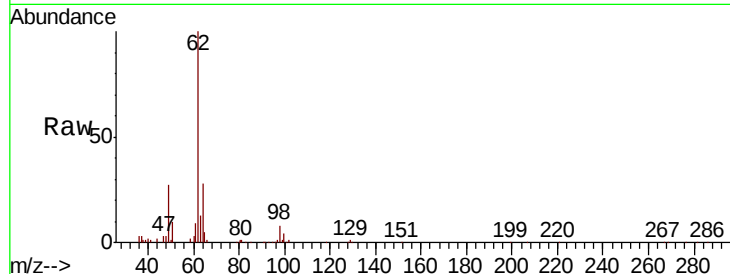
Ion 50.10 (49.80 to 50.80): VL0





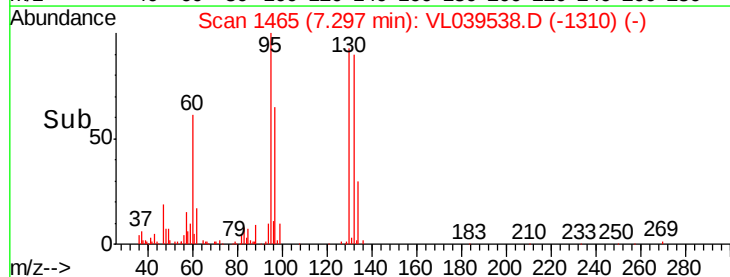
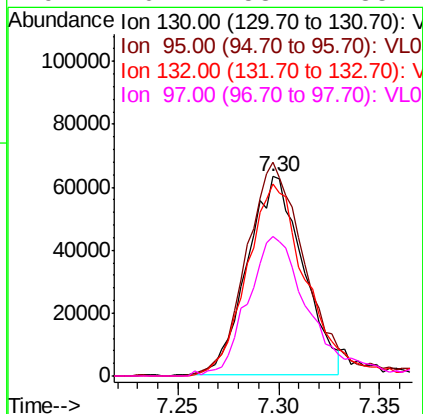
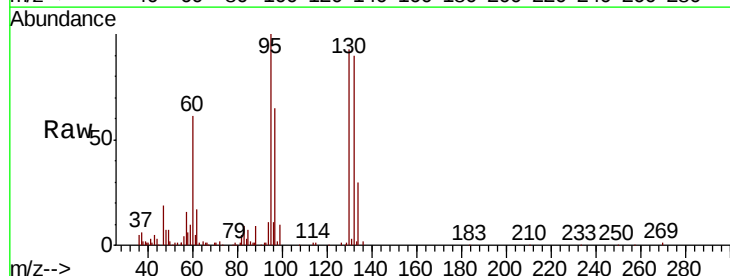
#37  
 1,2-Dichloroethane  
 Concen: 0.999 ppbv  
 RT: 5.81  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 17 Aug 2022 4:56

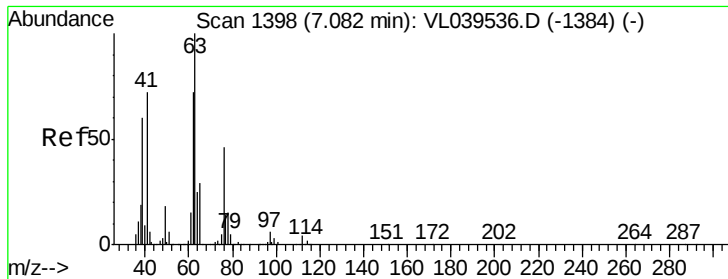
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 62      | 100   |       |       |
| 98      | 6.8   | 5.4   | 8.2   |



#38  
 Trichloroethene  
 Concen: 0.981 ppbv  
 RT: 7.30 min Scan# 1465  
 Delta R.T. -0.00 min  
 Lab File: VL039538.D  
 Acq: 17 Aug 2022 4:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 107.3 | 88.0  | 132.0 |
| 132     | 96.7  | 79.1  | 118.7 |
| 97      | 70.2  | 58.7  | 88.1  |





#39

1,2-Dichloropropane

Concen: 1.035 ppbv

RT: 7.08 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

VSTDIC001

Acq: 17 Aug 2022 4:56

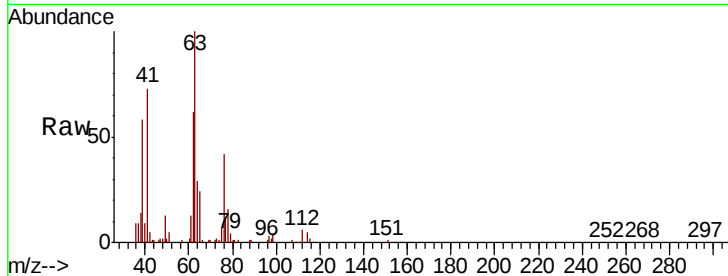
Tot Ion: 63 Resp: 87702

Ion Ratio Lower Upper

63 100

41 72.1 58.0 87.0

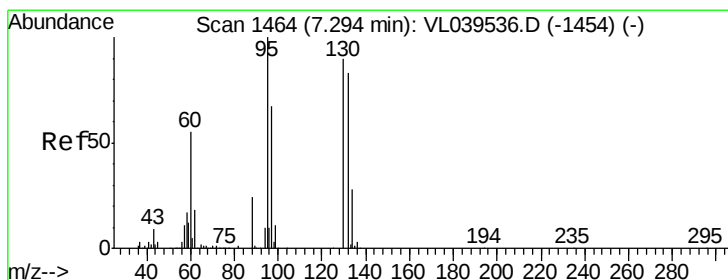
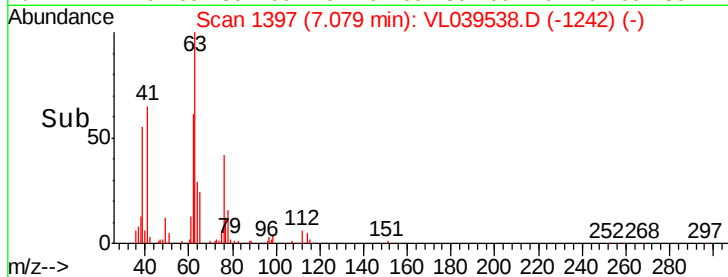
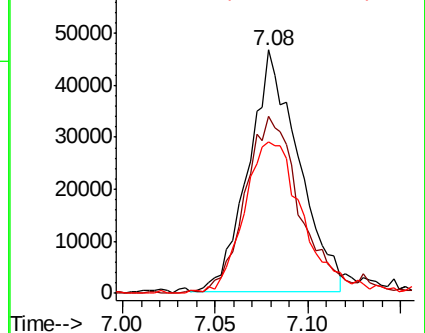
62 61.3 57.8 86.8



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.445 ppbv

RT: 7.31 min Scan# 1469

Delta R.T. 0.02 min

Lab File: VL039538.D

Acq: 17 Aug 2022 4:56

Tgt Ion: 88 Resp: 14925

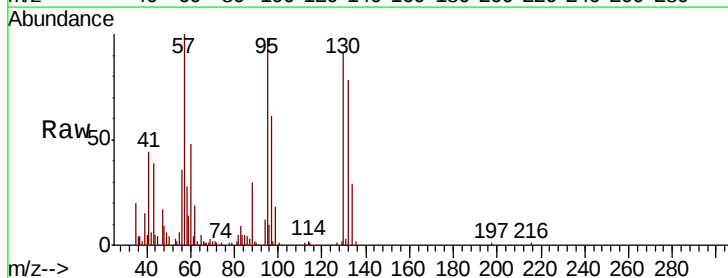
Ion Ratio Lower Upper

88 100

58 0.0 102.8 154.2#

43 0.0 216.2 324.2#

57 0.0 910.0 1365.0#

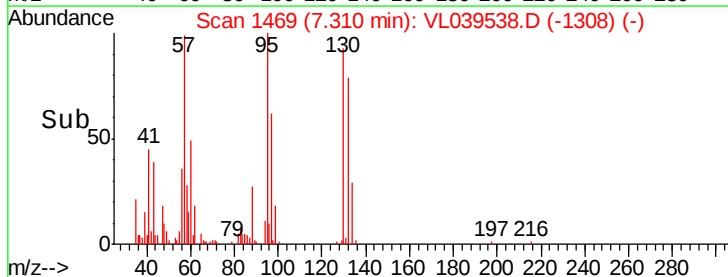
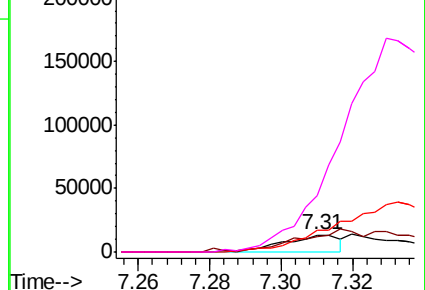


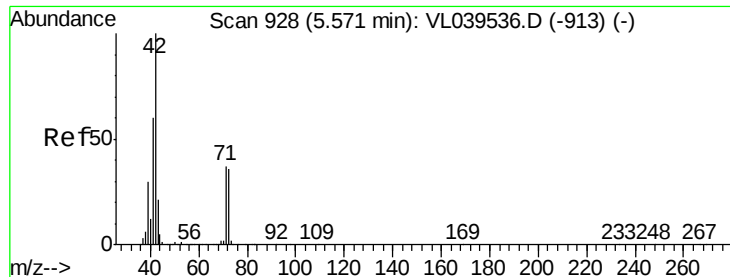
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.968 ppbv

RT: 5.59 Instrument: MSVOA\_1

Delta R.T. -0.00 min

Lab File: ClientSampleId: VSTDIC001

Acq: 17 Aug 2022 4:56

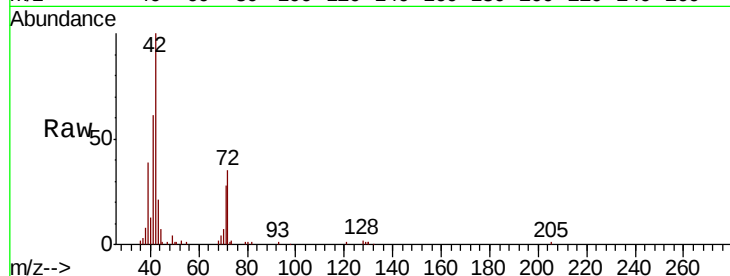
Tot Ion: 42 Resp: 82953

Ion Ratio Lower Upper

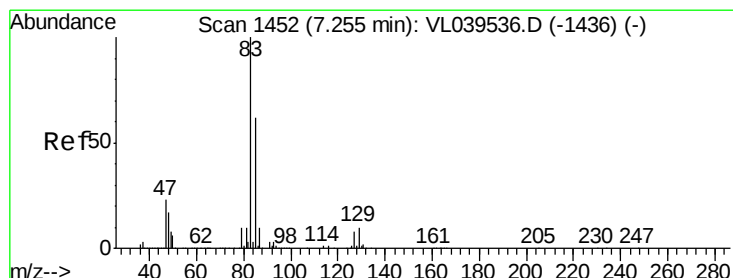
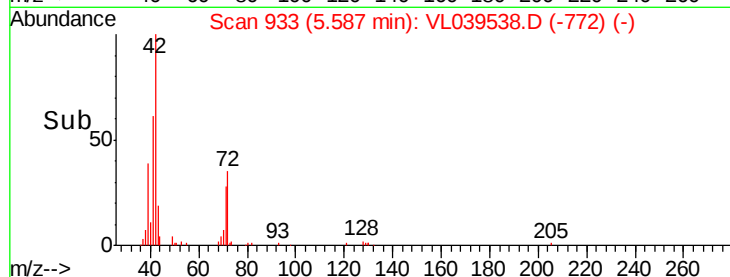
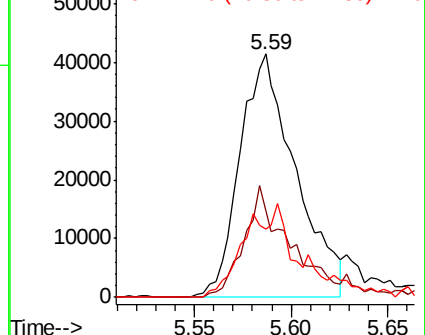
42 100

72 42.1 30.6 45.8

71 40.9 30.7 46.1



Abundance Ion 42.10 (41.80 to 42.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0  
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.952 ppbv

RT: 7.25 min Scan# 1451

Delta R.T. -0.00 min

Lab File: VL039538.D

Acq: 17 Aug 2022 4:56

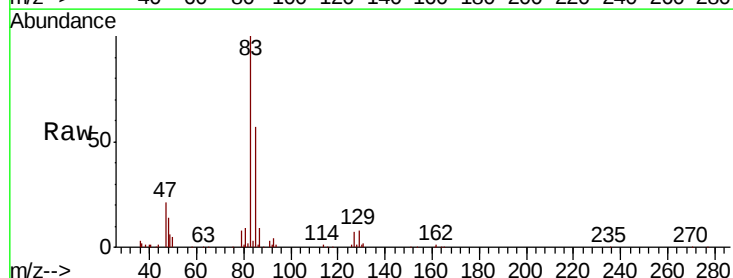
Tgt Ion: 83 Resp: 170611

Ion Ratio Lower Upper

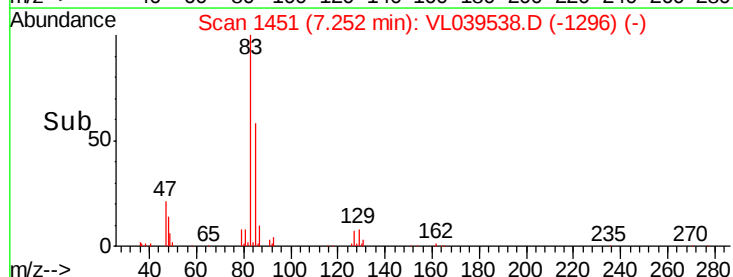
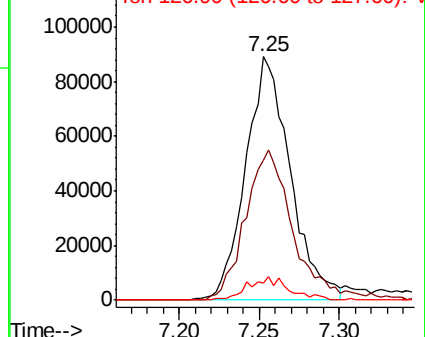
83 100

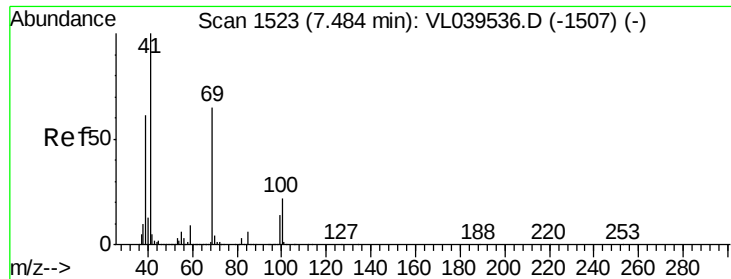
85 57.3 49.9 74.9

127 7.2 6.7 10.1



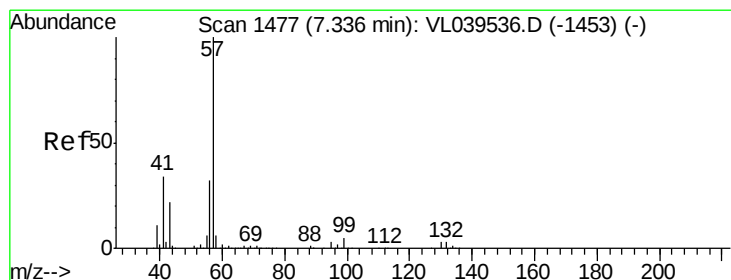
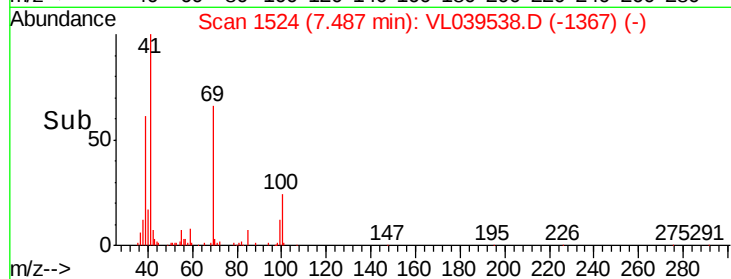
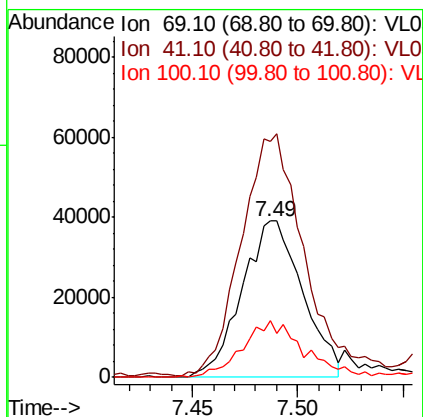
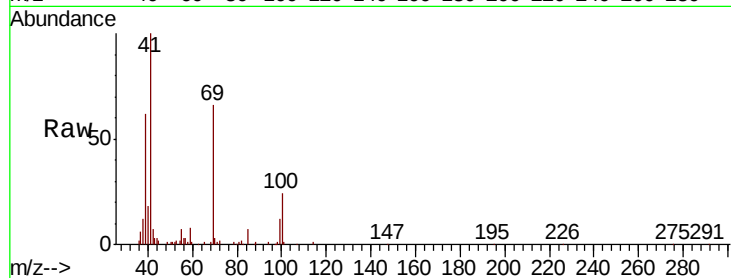
Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V





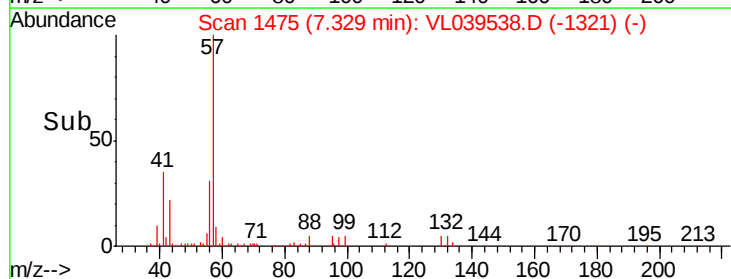
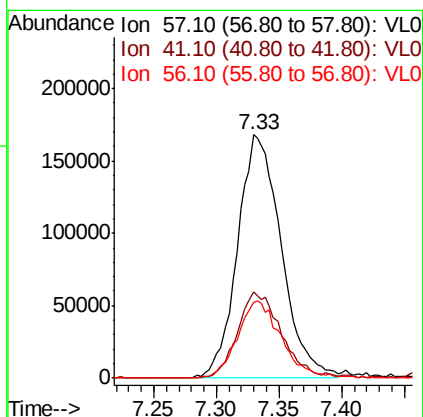
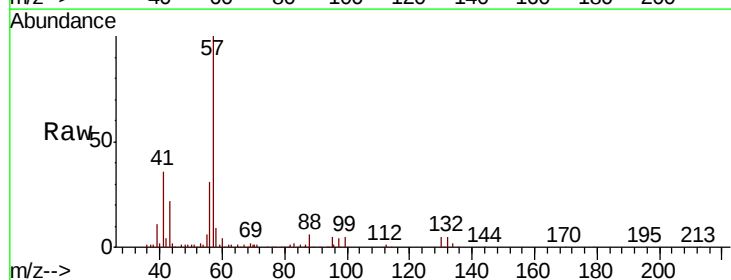
#43  
Methyl Methacrylate  
Concen: 0.910 ppbv  
RT: 7.49  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VSTDIC001  
Acq: 17 Aug 2022 4:56

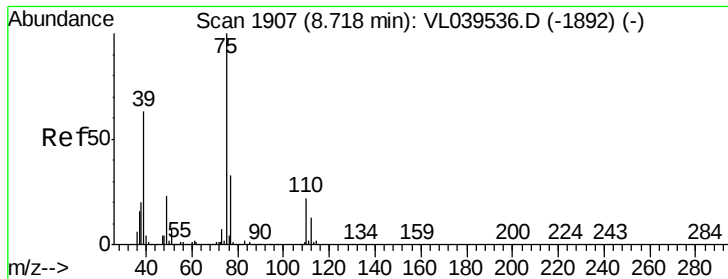
| Tot Ion   | 69    | Resp  | 78175 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 69        | 100   |       |       |
| 41        | 163.2 | 123.0 | 184.6 |
| 100       | 37.7  | 27.4  | 41.2  |



#44  
2,2,4-Trimethylpentane  
Concen: 1.056 ppbv  
RT: 7.33 min Scan# 1475  
Delta R.T. -0.01 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

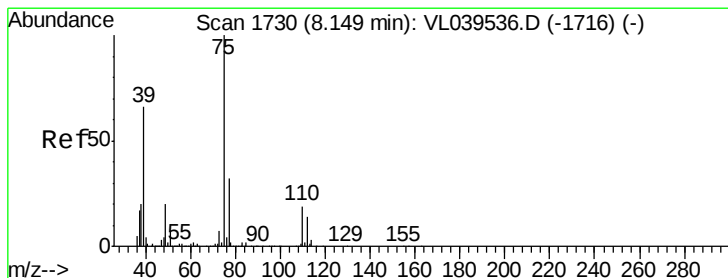
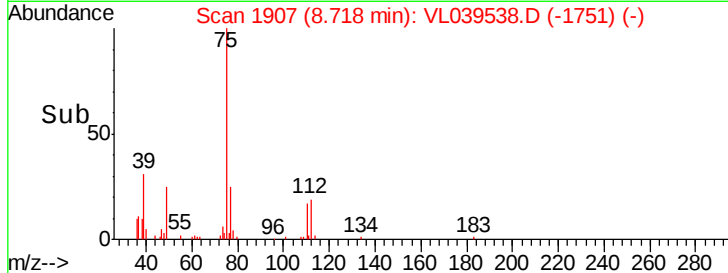
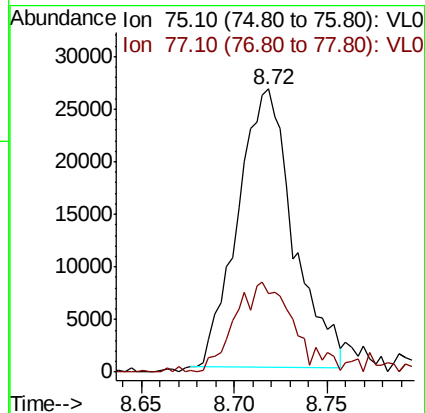
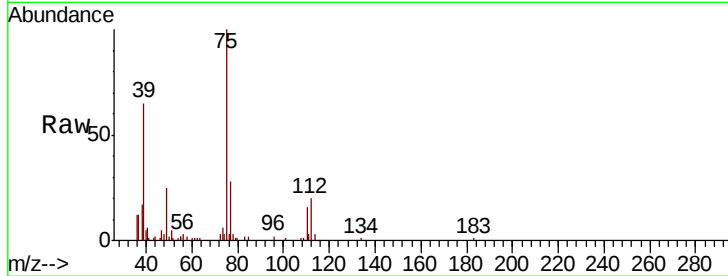
| Tgt Ion   | 57    | Resp  | 406051 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 57        | 100   |       |        |
| 41        | 36.0  | 27.8  | 41.6   |
| 56        | 32.0  | 25.5  | 38.3   |





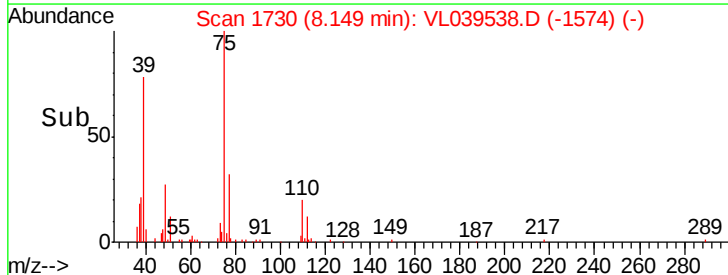
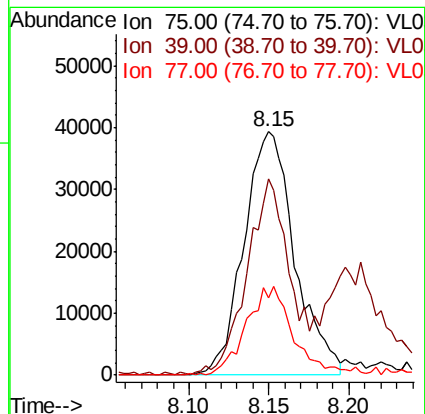
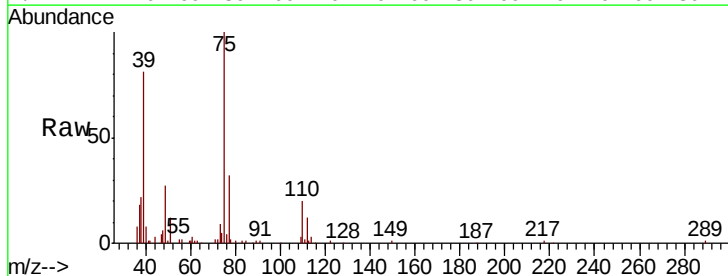
#45  
t-1,3-Dichloropropene  
Concen: 0.741 ppbv  
RT: 8.72 Instrument : MSVOA\_1  
Delta R.T. ClientSampleId :  
Lab File: VSTDIC001  
Acq: 17 Aug 2022 4:50

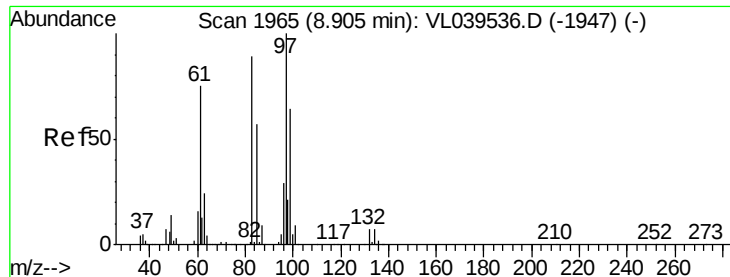
Tot Ion: 75 Resp: 55511  
Ion Ratio Lower Upper  
75 100  
77 30.9 26.2 39.2



#46  
cis-1,3-Dichloropropene  
Concen: 0.822 ppbv  
RT: 8.15 min Scan# 1730  
Delta R.T. 0.00 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

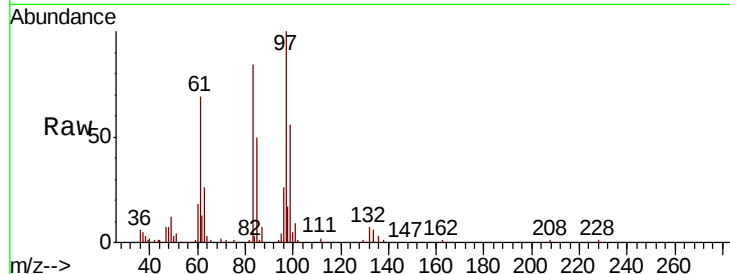
Tgt Ion: 75 Resp: 86045  
Ion Ratio Lower Upper  
75 100  
39 80.7 52.8 79.2#  
77 31.2 25.3 37.9



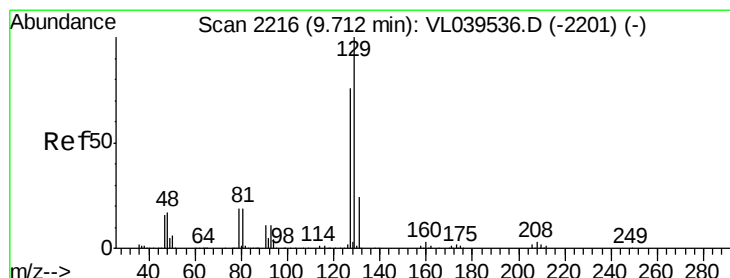
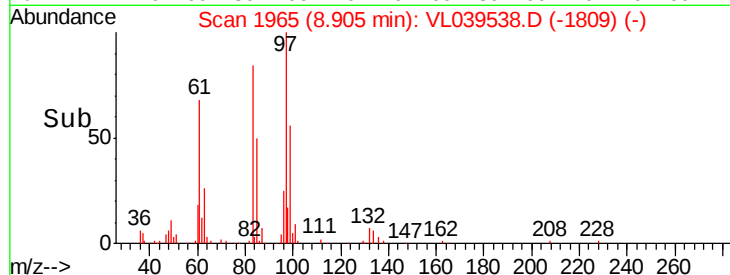
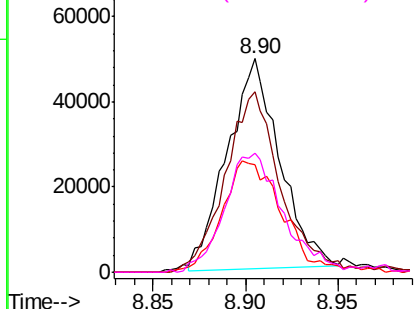


#47  
 1,1,2-Trichloroethane  
 Concen: 1.023 ppbv  
 RT: 8.90  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 17 Aug 2022 4:56

| Tot Ion: | 97    | Resp: | 97232 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 82.3  | 70.8  | 106.2 |
| 85       | 49.4  | 45.4  | 68.2  |
| 99       | 53.6  | 51.5  | 77.3  |

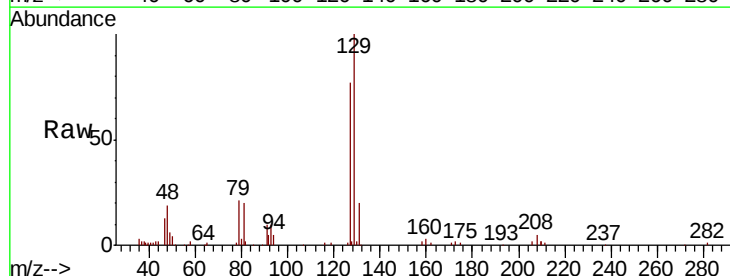


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0

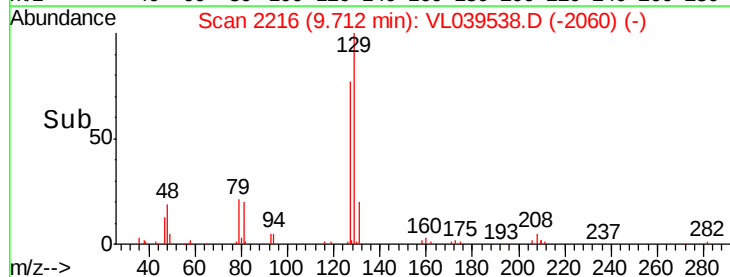
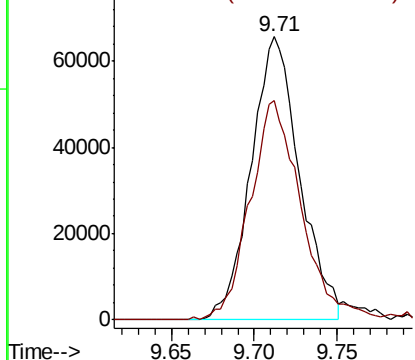


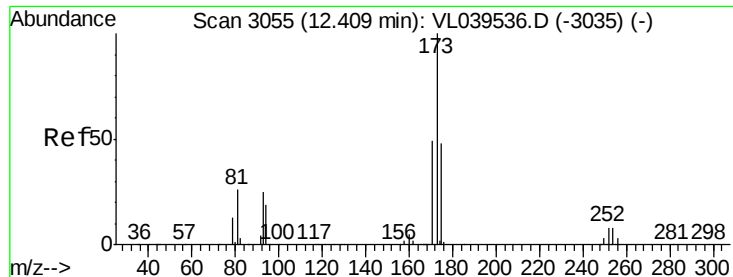
#48  
 Dibromochloromethane  
 Concen: 0.892 ppbv  
 RT: 9.71 min Scan# 2216  
 Delta R.T. 0.00 min  
 Lab File: VL039538.D  
 Acq: 17 Aug 2022 4:56

| Tgt Ion: | 129   | Resp: | 133771 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 83.3  | 38.8  | 116.3  |



Abundance Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.914 ppbv

RT: 12.41

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 17 Aug 2022 4:56

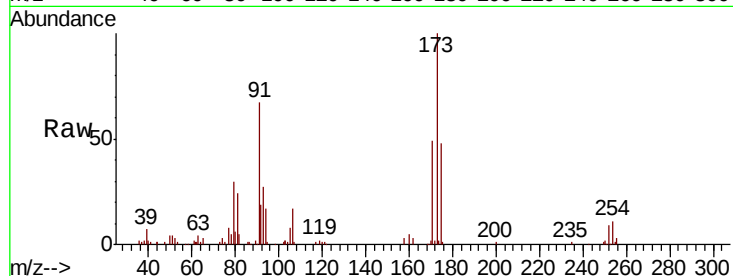
Tot Ion:173 Resp: 110756

Ion Ratio Lower Upper

173 100

175 49.8 0.0 0.0#

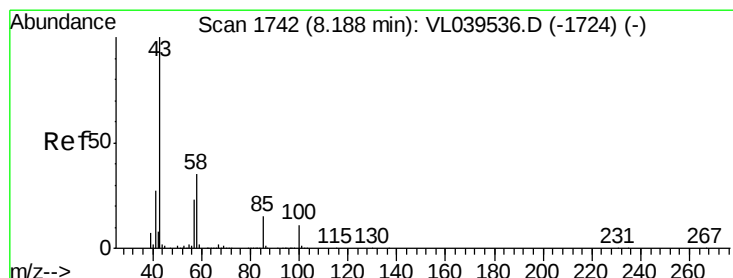
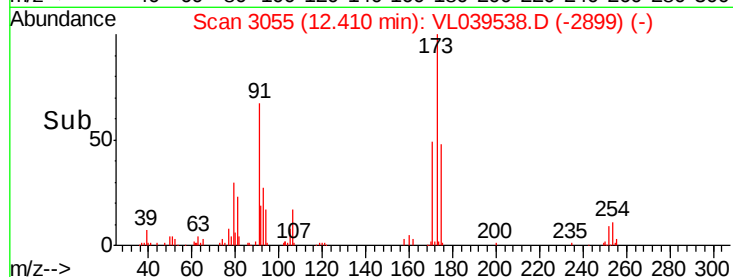
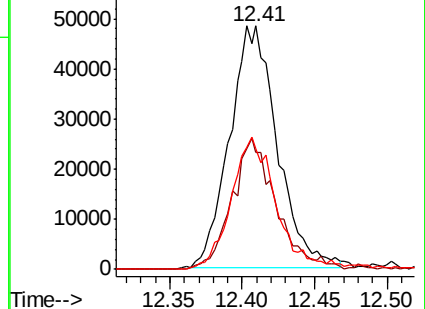
171 53.1 0.0 0.0#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.919 ppbv

RT: 8.20 min Scan# 1747

Delta R.T. 0.02 min

Lab File: VL039538.D

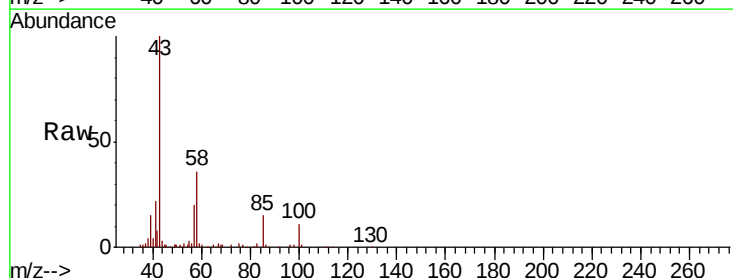
Acq: 17 Aug 2022 4:56

Tgt Ion: 43 Resp: 206172

Ion Ratio Lower Upper

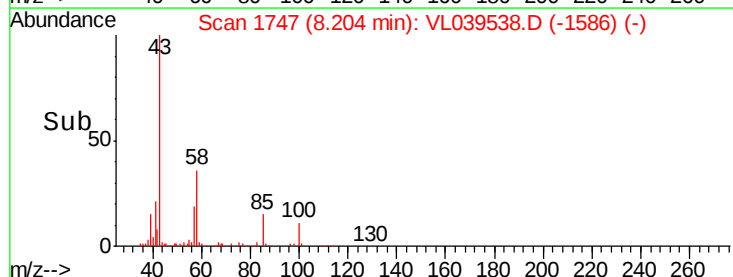
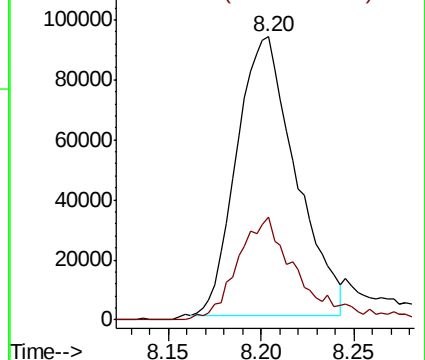
43 100

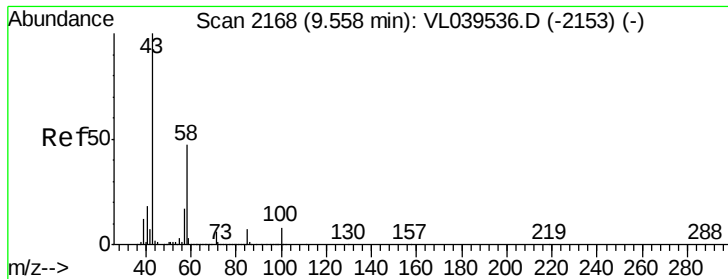
58 37.8 28.0 42.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

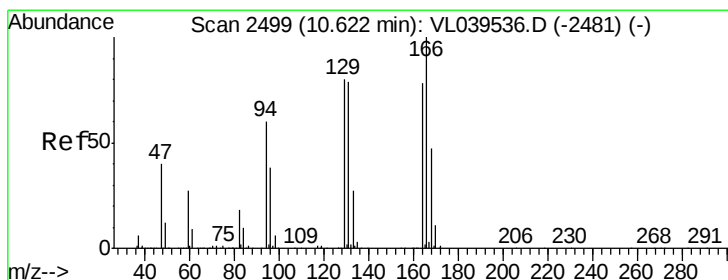
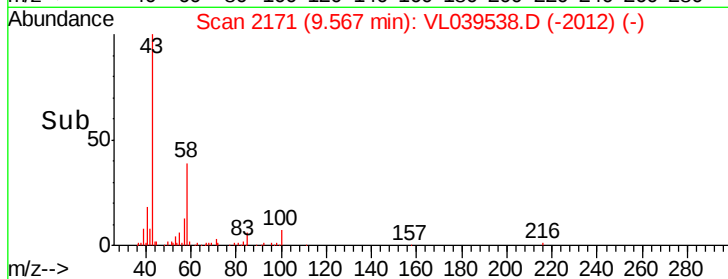
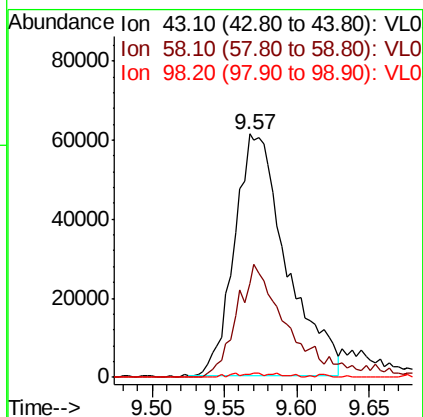
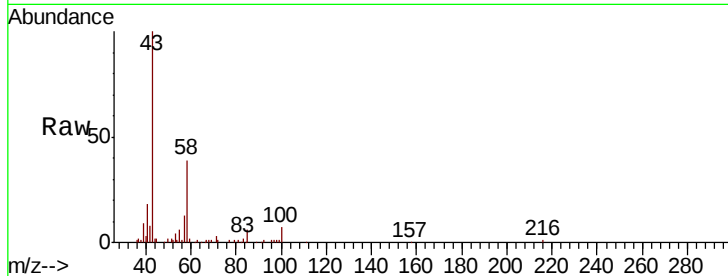
Ion 58.10 (57.80 to 58.80): VL0





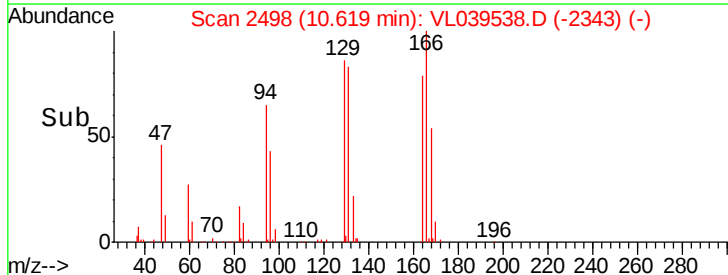
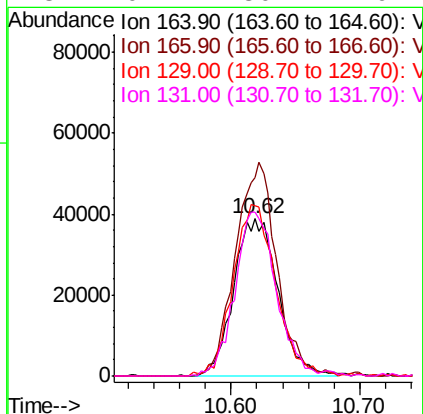
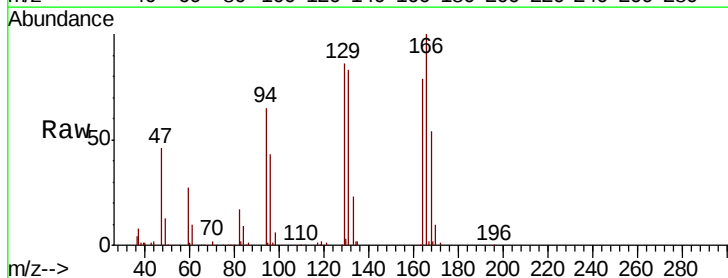
#51  
2-Hexanone  
Concen: 0.904 ppbv  
RT: 9.57  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Aug 2022 4:56

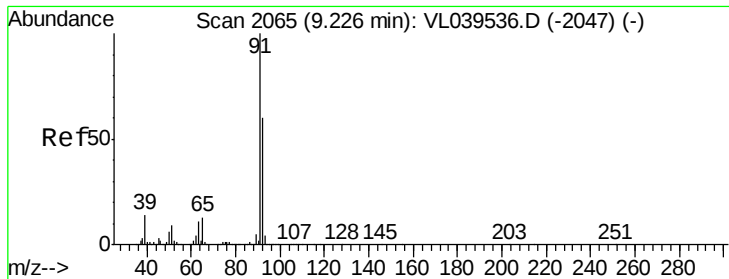
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 45.3  | 37.5  | 56.3  |
| 98      | 1.6   | 0.5   | 0.7#  |



#52  
Tetrachloroethene  
Concen: 1.018 ppbv  
RT: 10.62 min Scan# 2498  
Delta R.T. -0.00 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 126.0 | 102.0 | 153.0 |
| 129     | 108.4 | 81.7  | 122.5 |
| 131     | 104.2 | 80.2  | 120.2 |





#53

Toluene

Concen: 0.953 ppbv

RT: 9.23 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

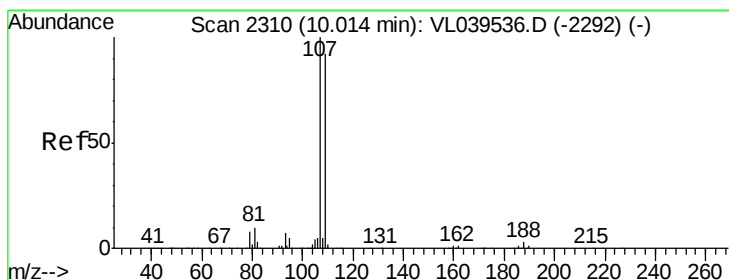
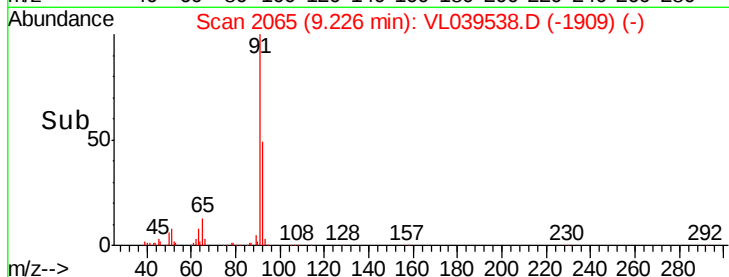
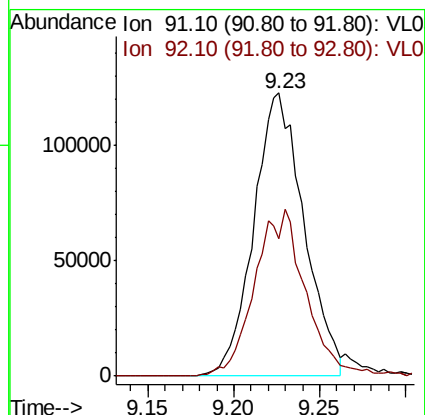
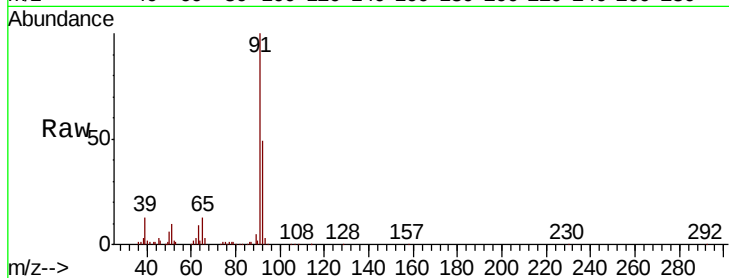
Acq: 17 Aug 2022 4:56

Tot Ion: 91 Resp: 248642

Ion Ratio Lower Upper

91 100

92 60.6 47.9 71.9



#54

1,2-Dibromoethane

Concen: 0.940 ppbv

RT: 10.01 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VL039538.D

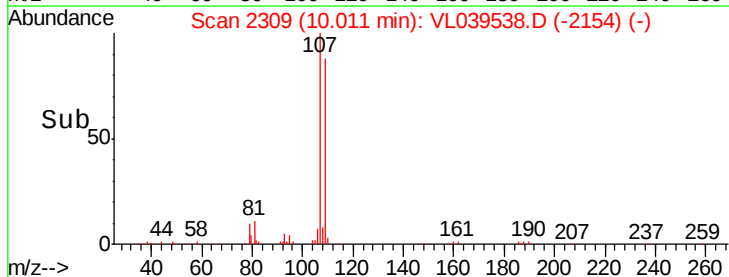
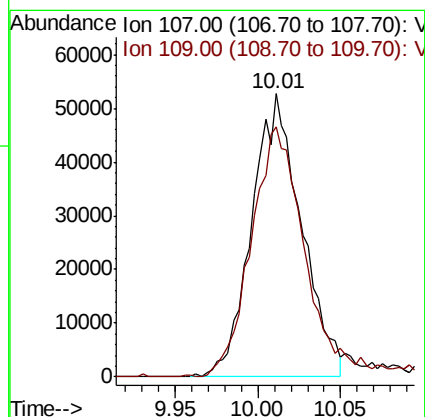
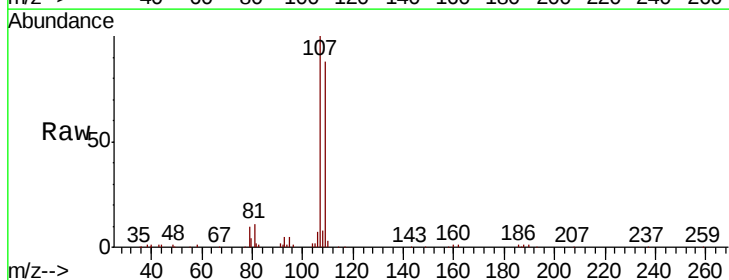
Acq: 17 Aug 2022 4:56

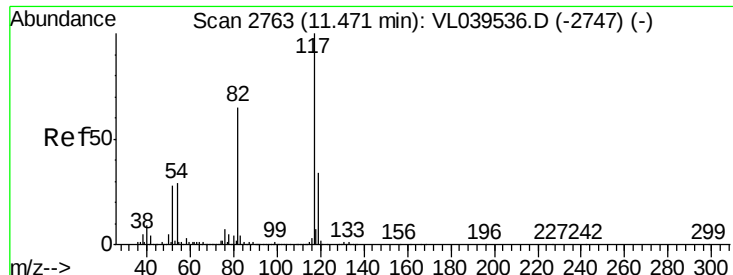
Tgt Ion: 107 Resp: 109577

Ion Ratio Lower Upper

107 100

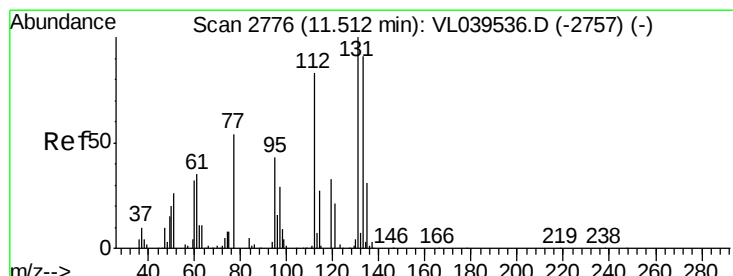
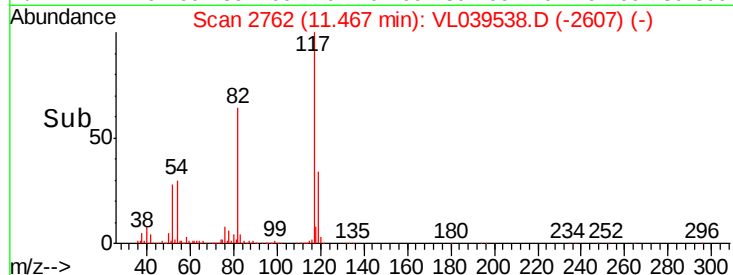
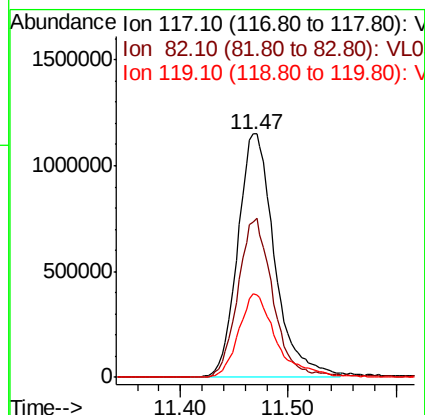
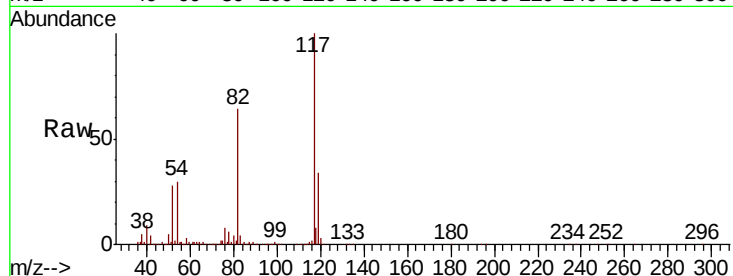
109 88.0 73.4 110.2





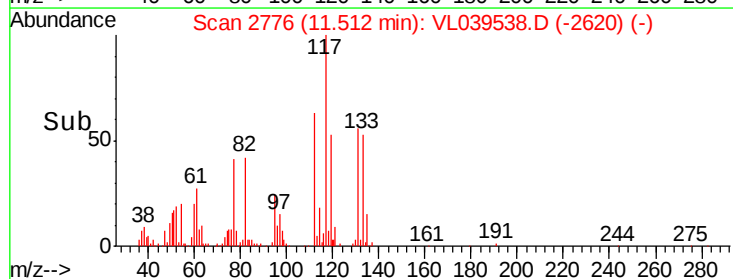
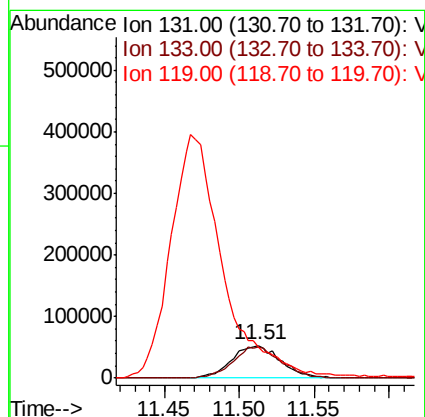
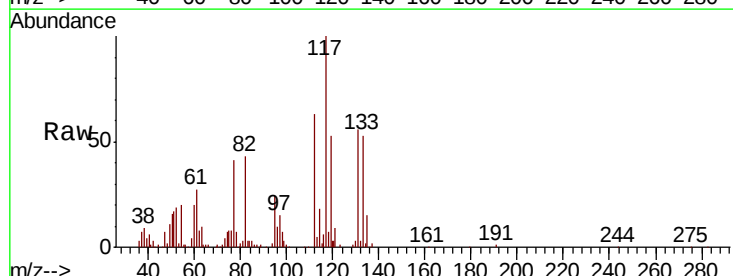
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 11.47 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 17 Aug 2022 4:50

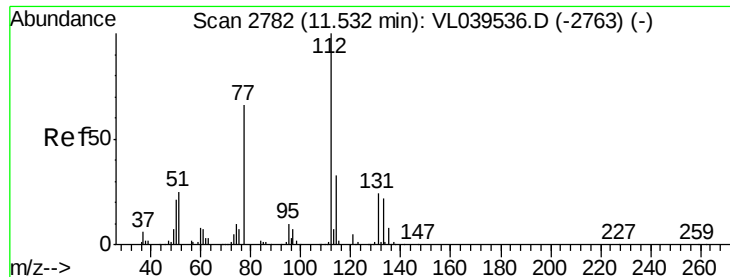
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 63.3  | 49.1  | 73.7  |
| 119     | 35.3  | 25.9  | 38.9  |



#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.013 ppbv  
RT: 11.51 min Scan# 2776  
Delta R.T.: 0.00 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

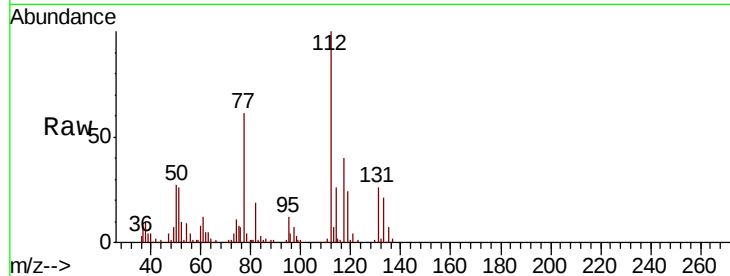
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 131     | 100   |       |       |
| 133     | 95.2  | 75.4  | 113.2 |
| 119     | 805.4 | 47.4  | 71.2# |



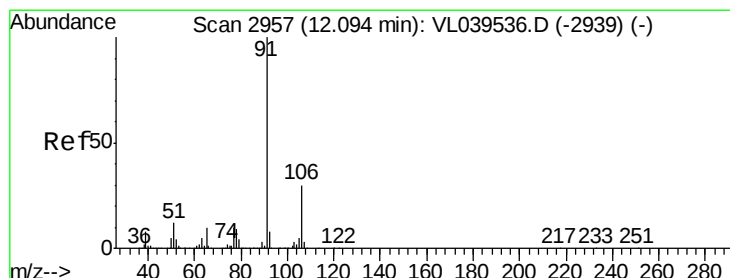
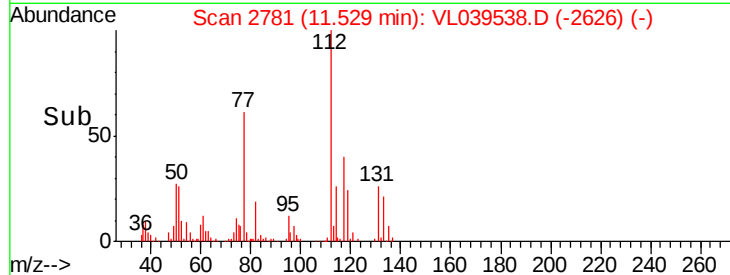
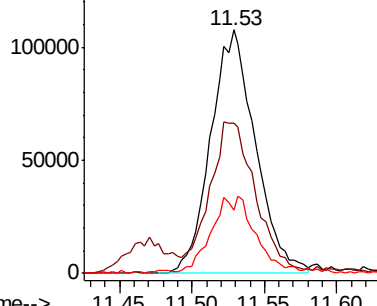


#57  
Chlorobenzene  
Concen: 1.106 ppbv  
RT: 11.53 min  
Delta R.T.: 0.00 min  
Lab File: VSTDIC001  
Acq: 17 Aug 2022 4:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 230870 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 77        | 59.3  | 53.4  | 80.0   |
| 114       | 24.8  | 29.5  | 36.1#  |

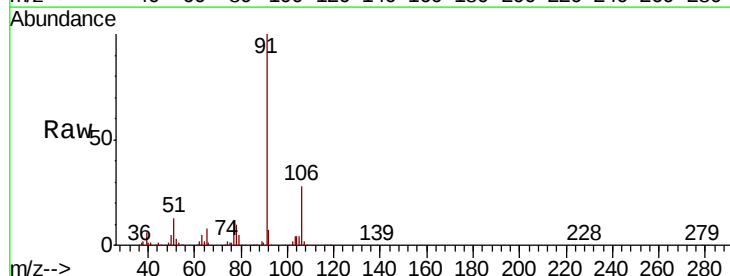


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

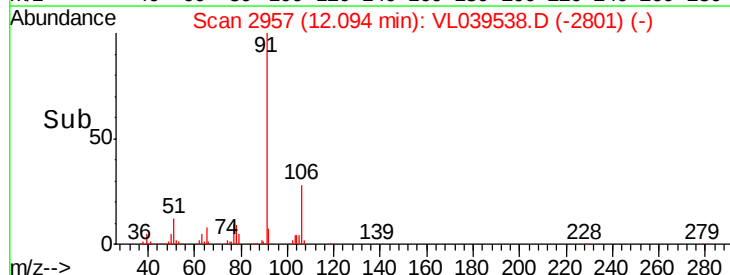
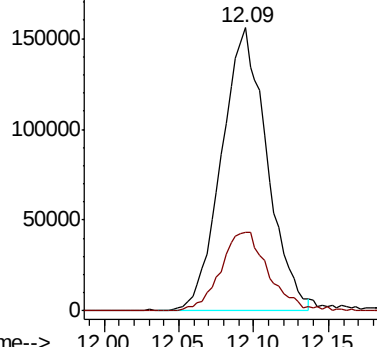


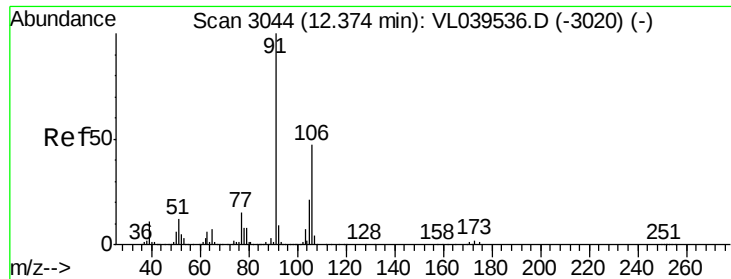
#58  
Ethyl Benzene  
Concen: 0.951 ppbv  
RT: 12.09 min Scan# 2957  
Delta R.T.: 0.00 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 329246 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 106       | 27.7  | 24.2  | 36.4   |



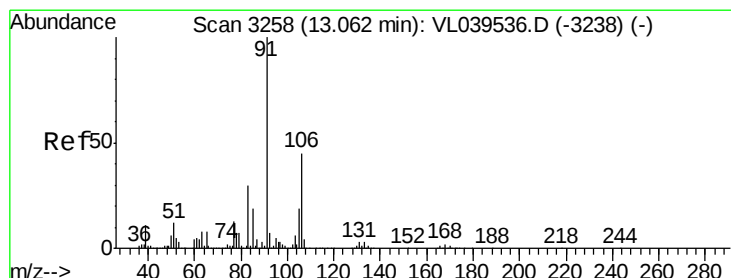
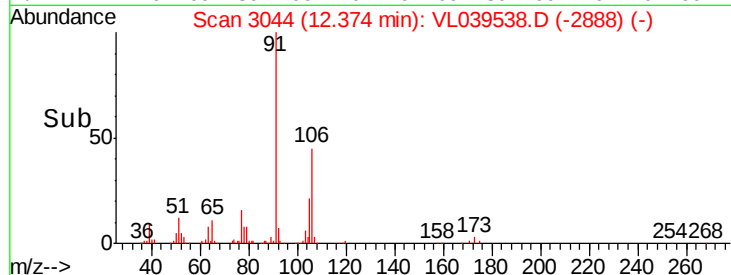
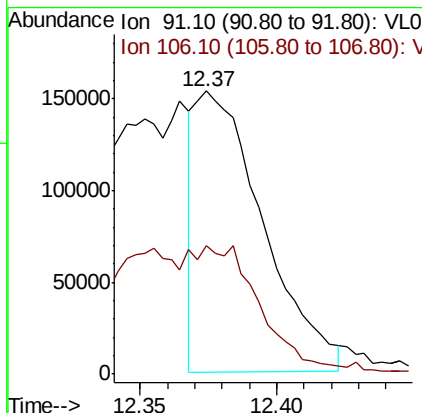
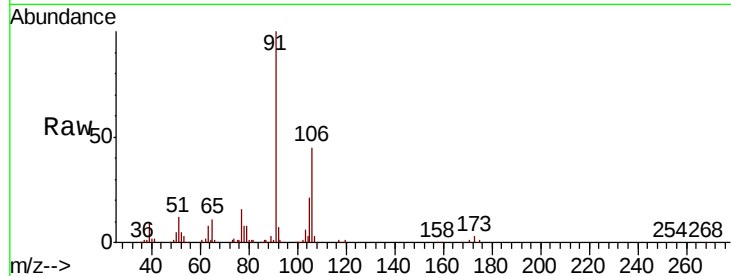
Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





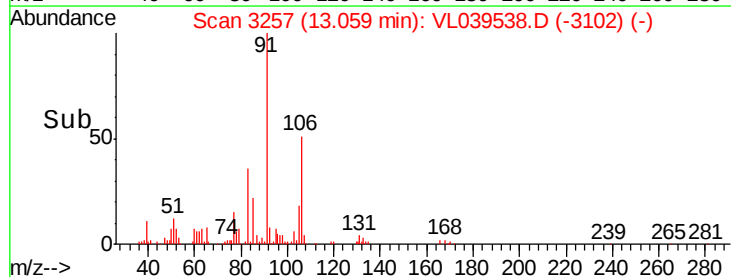
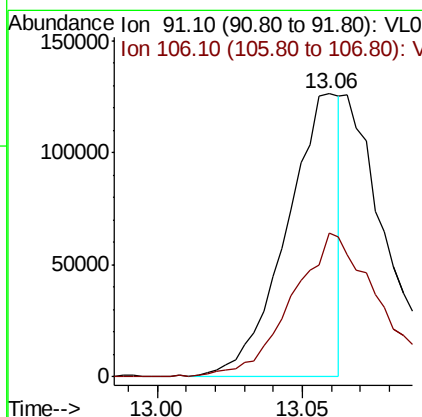
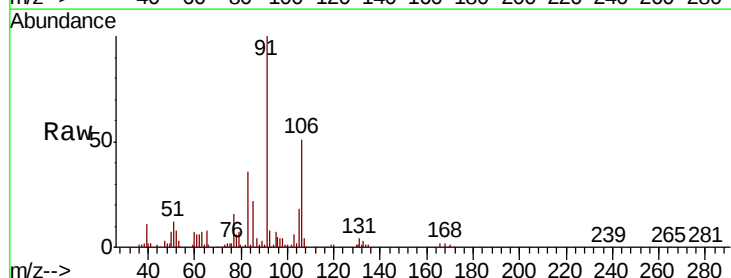
#59  
m/p-Xylene  
Concen: 0.863 ppbv  
RT: 12.37  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 17 Aug 2022 4:56

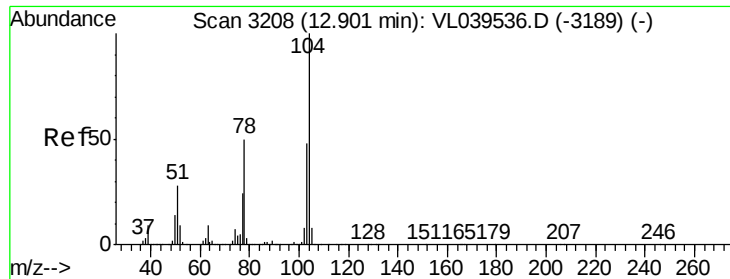
Tot Ion: 91 Resp: 262932  
Ion Ratio Lower Upper  
91 100  
106 103.4 0.0 0.0#



#60  
o-Xylene  
Concen: 0.554 ppbv  
RT: 13.06 min Scan# 3257  
Delta R.T. -0.00 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

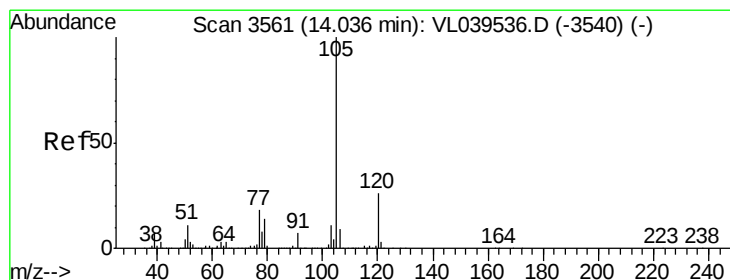
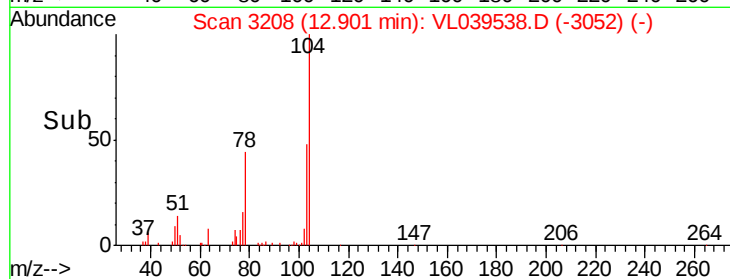
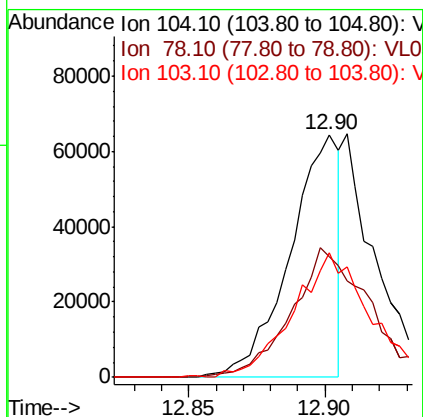
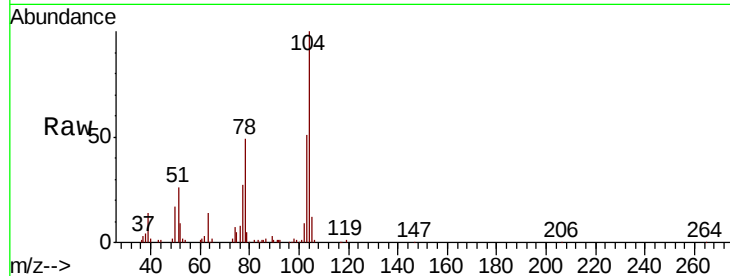
Tgt Ion: 91 Resp: 160272  
Ion Ratio Lower Upper  
91 100  
106 84.5 22.7 68.0#





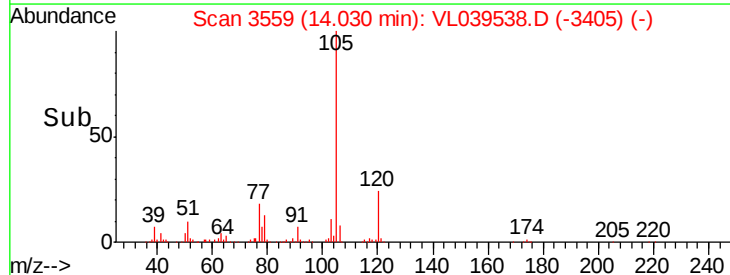
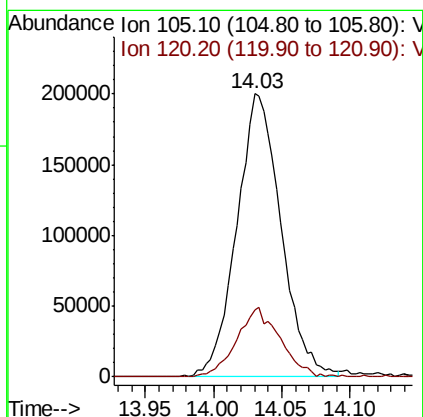
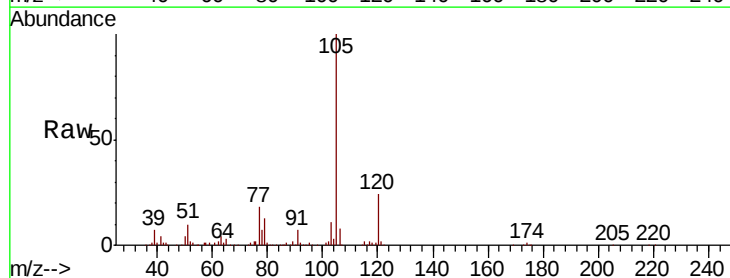
#61  
Stvrene  
Concen: 0.518 ppbv  
RT: 12.90 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VSTDIC001  
Acq: 17 Aug 2022 4:58

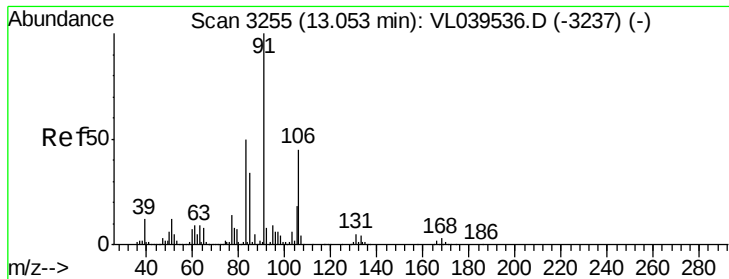
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 88.7  | 40.0  | 60.0# |
| 103     | 81.6  | 38.2  | 57.2# |



#62  
Isopropylbenzene  
Concen: 1.020 ppbv  
RT: 14.03 min Scan# 3559  
Delta R.T.: -0.01 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 24.2  | 20.6  | 30.8  |





#63

1,1,2,2-Tetrachloroethane

Concen: 0.892 ppbv

RT: 13.05 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 17 Aug 2022 4:56

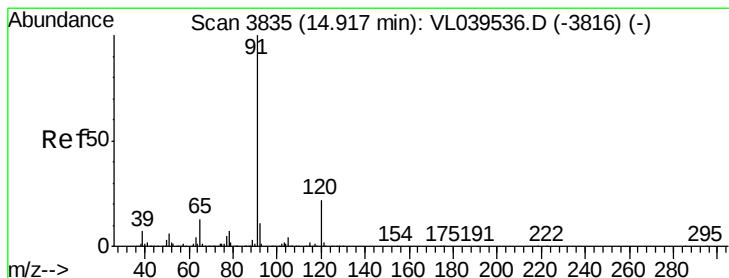
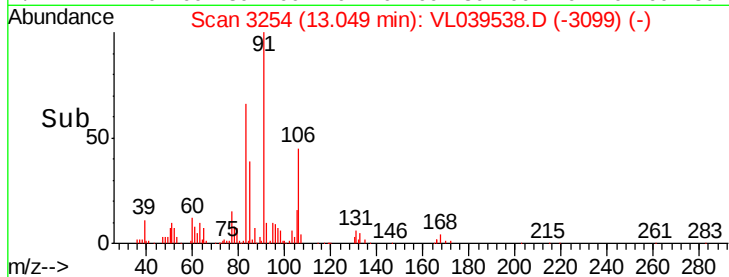
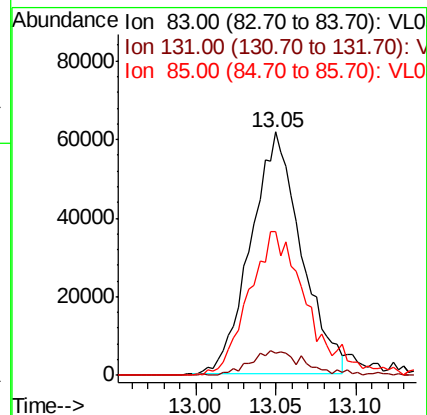
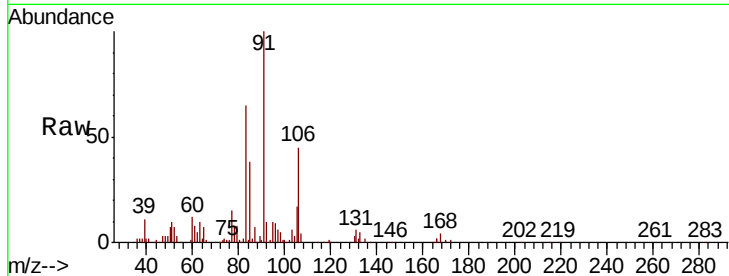
Tot Ion: 83 Resp: 134414

Ion Ratio Lower Upper

83 100

131 11.4 4.9 14.7

85 70.5 33.2 99.6



#64

n-propylbenzene

Concen: 1.024 ppbv

RT: 14.92 min Scan# 3836

Delta R.T. 0.00 min

Lab File: VL039538.D

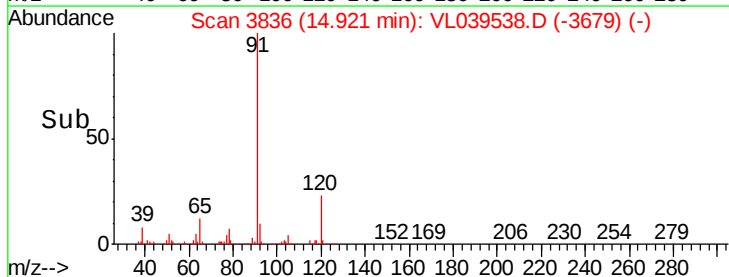
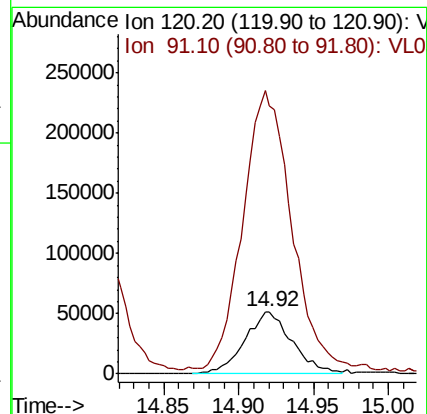
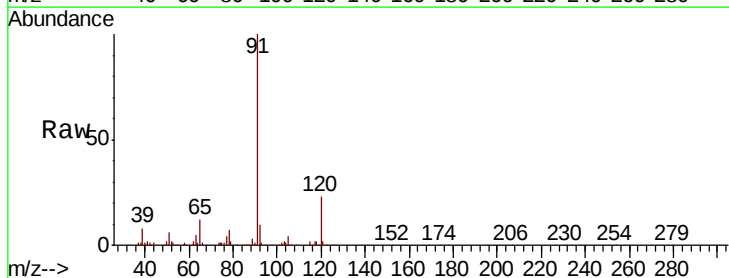
Acq: 17 Aug 2022 4:56

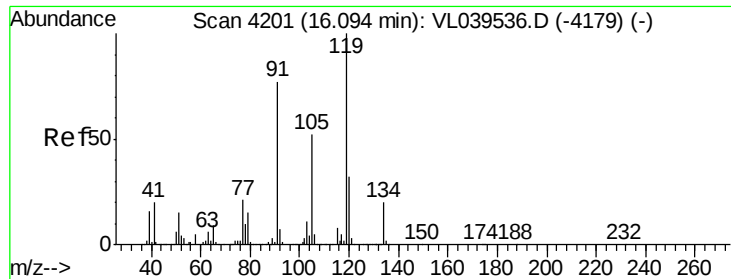
Tgt Ion: 120 Resp: 113816

Ion Ratio Lower Upper

120 100

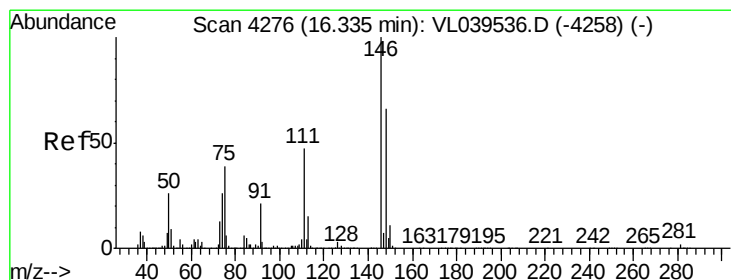
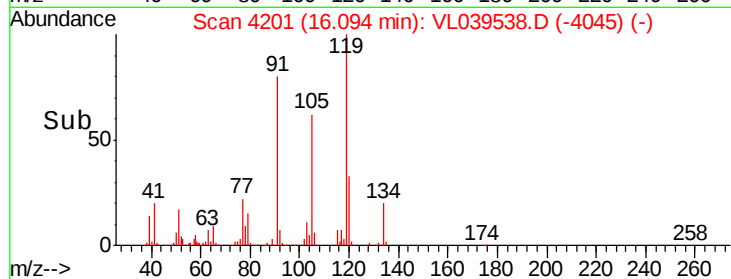
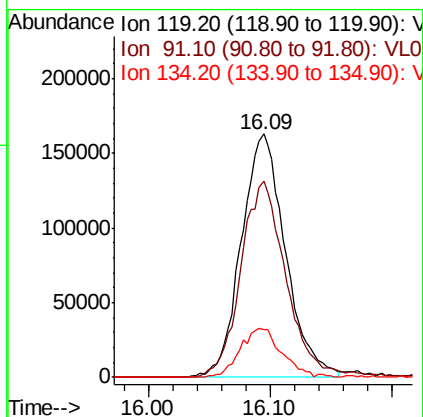
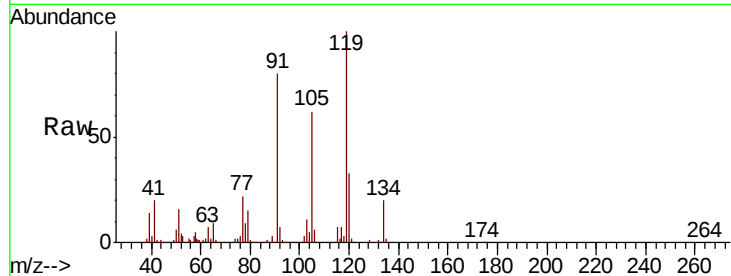
91 490.7 372.6 559.0





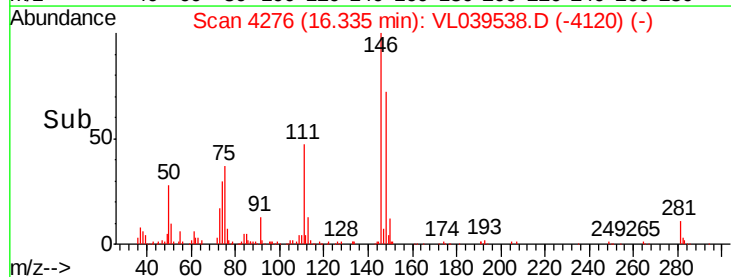
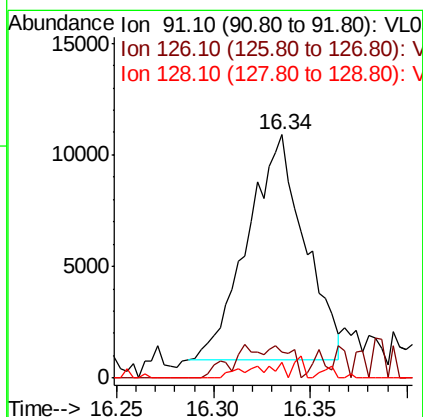
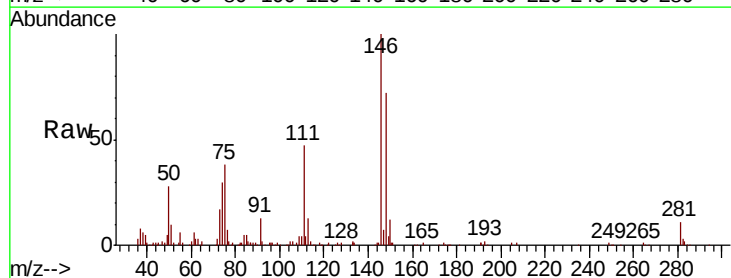
#65  
 tert-Butylbenzene  
 Concen: 1.004 ppbv  
 RT: 16.09 min  
 Instrument: MSVOA\_1  
 Delta R.T.: 0.00 min  
 Lab File: ClientSampleId : VSTDIC001  
 Acq: 17 Aug 2022 4:56

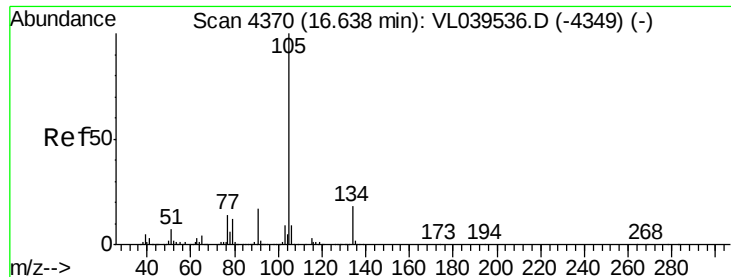
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 84.2  | 63.8  | 95.8  |
| 134     | 19.5  | 15.4  | 23.2  |



#66  
 Benzyl Chloride  
 Concen: 0.563 ppbv  
 RT: 16.34 min Scan# 4276  
 Delta R.T.: 0.00 min  
 Lab File: VL039538.D  
 Acq: 17 Aug 2022 4:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 4.6   | 0.0   | 0.0#  |
| 128     | 3.5   | 1.5   | 2.3#  |





#67

sec-Butylbenzene

Concen: 1.026 ppbv

RT: 16.64

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

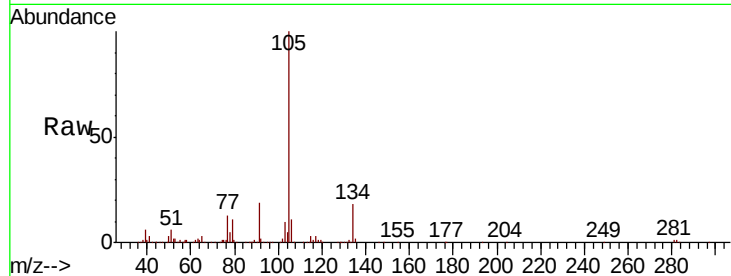
Acq: 17 Aug 2022 4:56

Tot Ion: 105 Resp: 560972

Ion Ratio Lower Upper

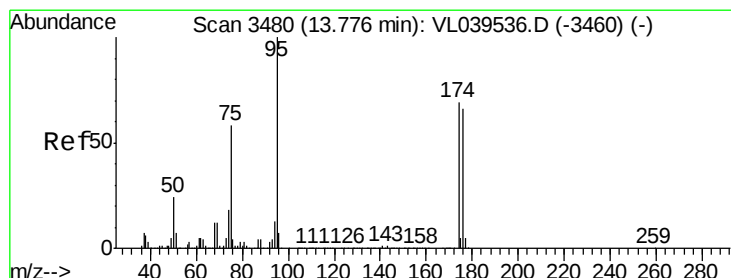
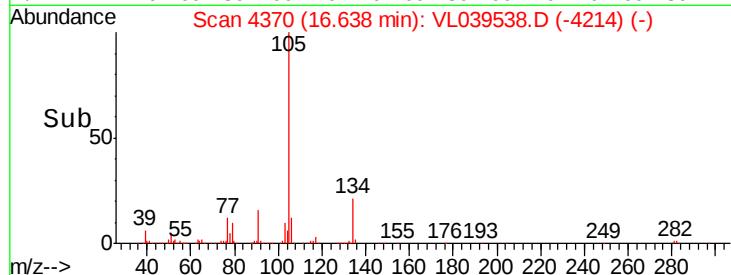
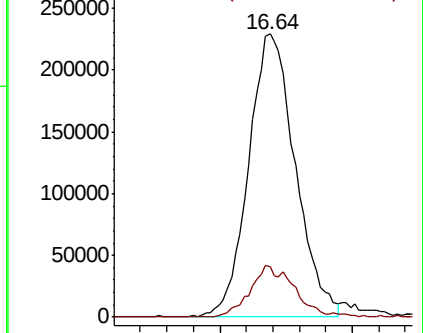
105 100

134 17.6 14.3 21.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.216 ppbv

RT: 13.78 min Scan# 3480

Delta R.T. 0.00 min

Lab File: VL039538.D

Acq: 17 Aug 2022 4:56

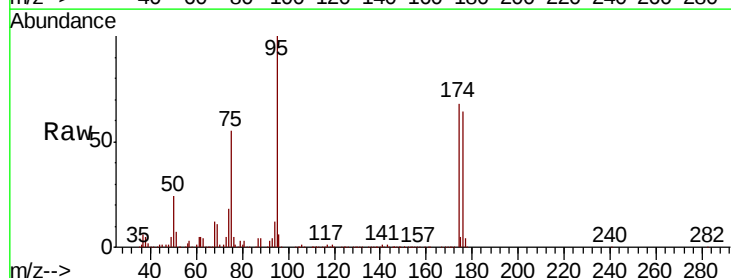
Tgt Ion: 95 Resp: 2077952

Ion Ratio Lower Upper

95 100

174 71.8 56.3 84.5

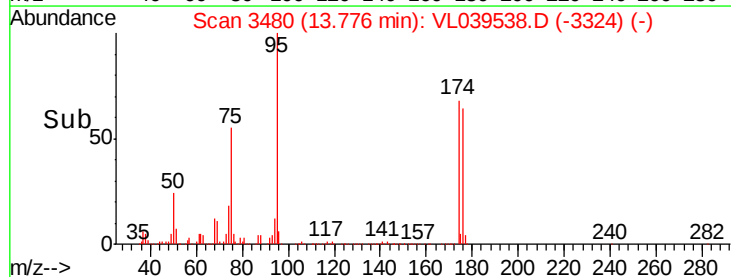
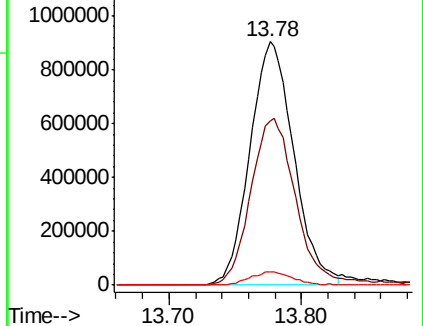
175 5.4 4.3 6.5

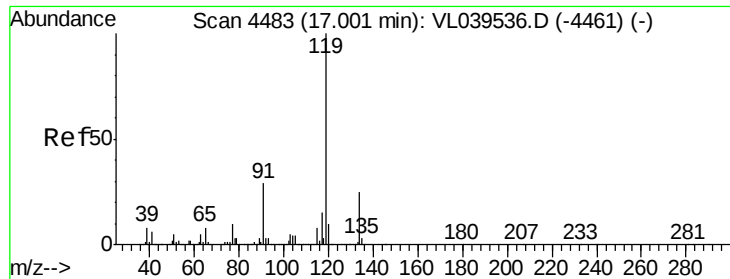


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

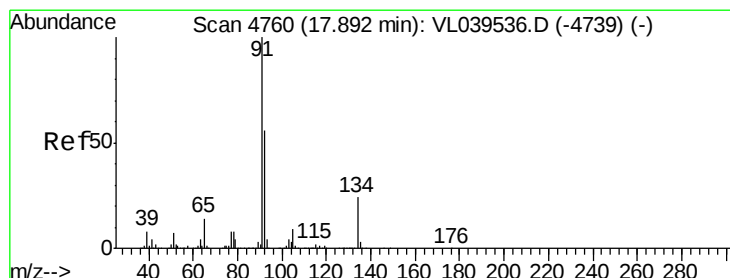
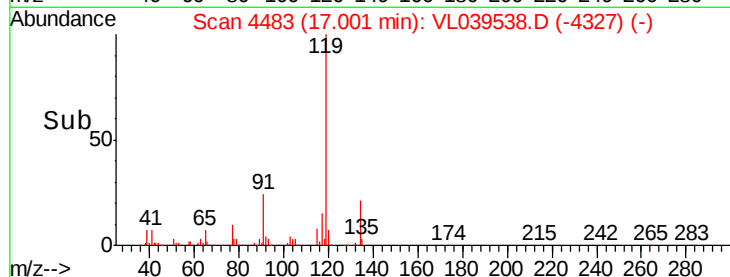
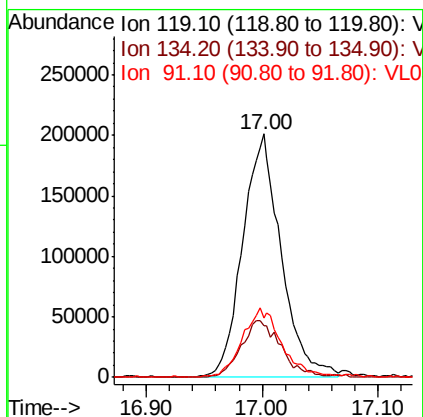
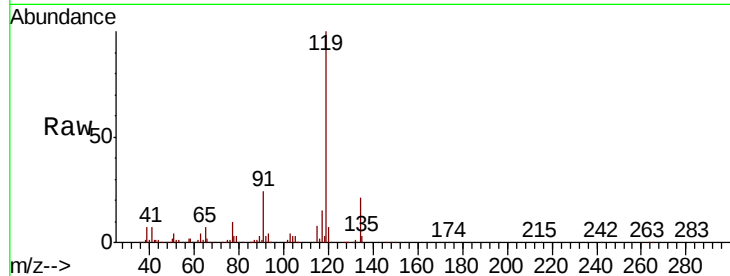
Ion 175.00 (174.70 to 175.70): V





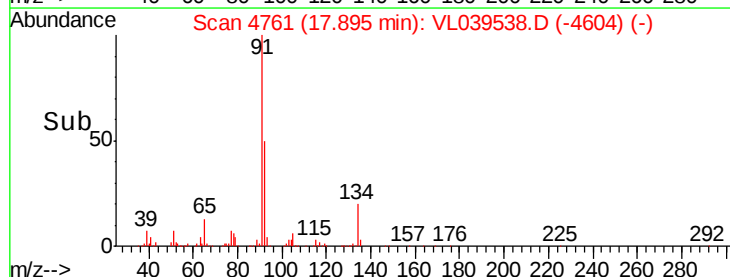
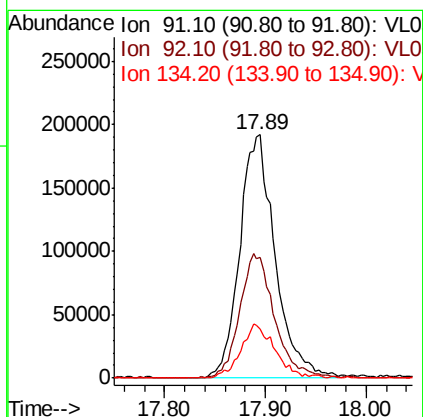
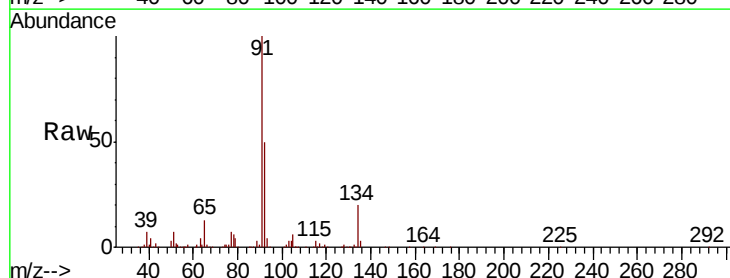
#69  
 p-Isopropyltoluene  
 Concen: 1.006 ppbv  
 RT: 17.00 min  
 Delta R.T. 0.00 min  
 Lab File: VSTDIC001  
 Acq: 17 Aug 2022 4:56

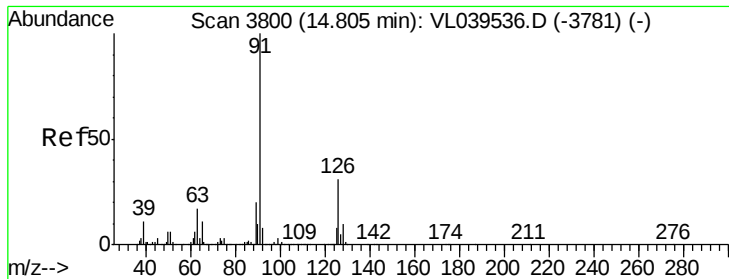
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 119   | Resp: | 464641 |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 134      | 24.6  | 19.8  | 29.6   |
| 91       | 29.8  | 22.6  | 33.8   |



#70  
 n-Butylbenzene  
 Concen: 1.040 ppbv  
 RT: 17.89 min Scan# 4761  
 Delta R.T. 0.00 min  
 Lab File: VL039538.D  
 Acq: 17 Aug 2022 4:56

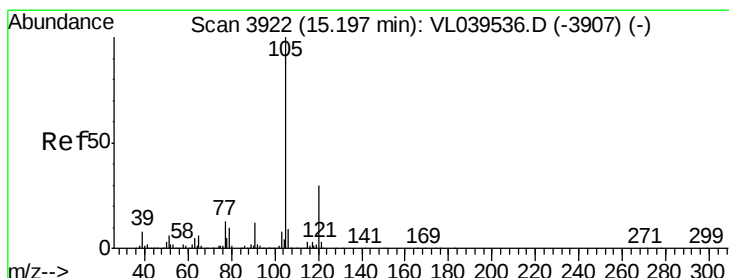
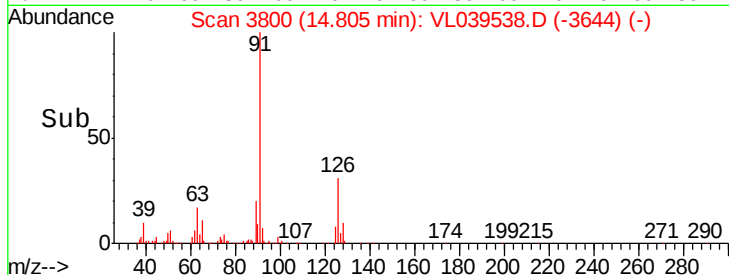
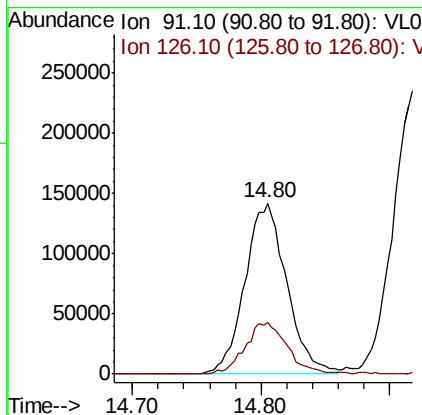
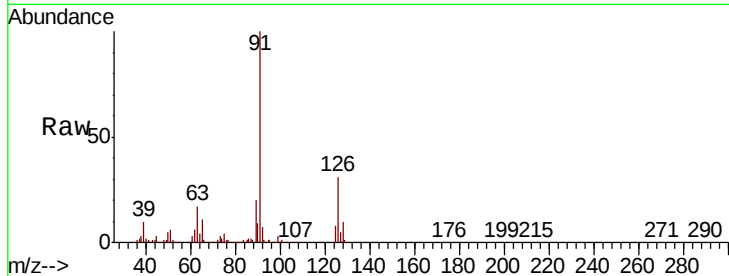
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 467753 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 50.5  | 43.0  | 64.6   |
| 134      | 21.7  | 18.1  | 27.1   |





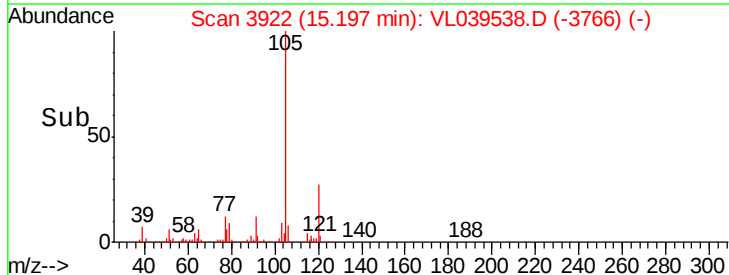
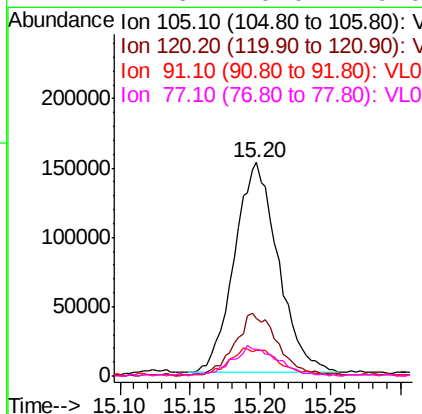
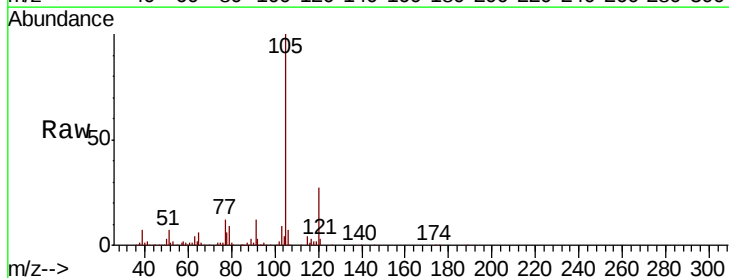
#71  
 2-Chlorotoluene  
 Concen: 1.019 ppbv  
 RT: 14.80 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 17 Aug 2022 4:50

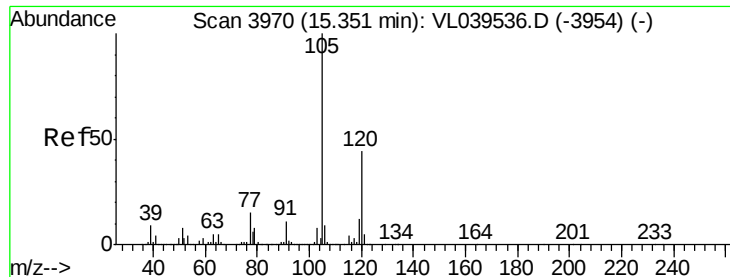
Tot Ion: 91 Resp: 321341  
 Ion Ratio Lower Upper  
 91 100  
 126 31.0 12.9 51.5



#72  
 4-Ethyltoluene  
 Concen: 0.967 ppbv  
 RT: 15.20 min Scan# 3922  
 Delta R.T. 0.00 min  
 Lab File: VL039538.D  
 Acq: 17 Aug 2022 4:56

Tgt Ion: 105 Resp: 329512  
 Ion Ratio Lower Upper  
 105 100  
 120 31.2 0.0 0.0#  
 91 13.7 0.0 0.0#  
 77 14.6 0.0 0.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.953 ppbv

RT: 15.36

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

VSTDIC001

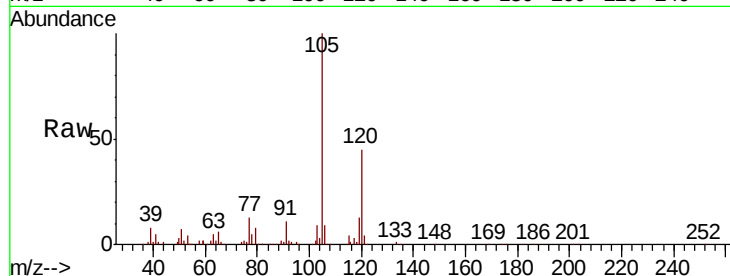
Acq: 17 Aug 2022 4:56

Tot Ion:105 Resp: 296914

Ion Ratio Lower Upper

105 100

120 44.6 35.4 53.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.36

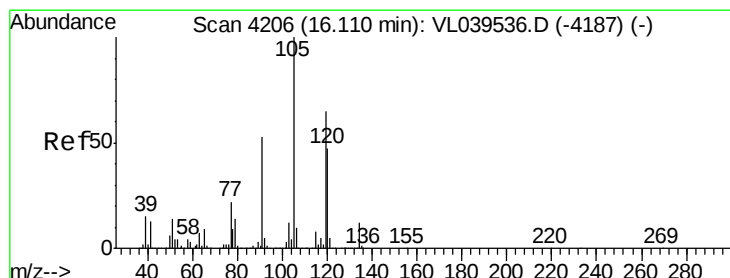
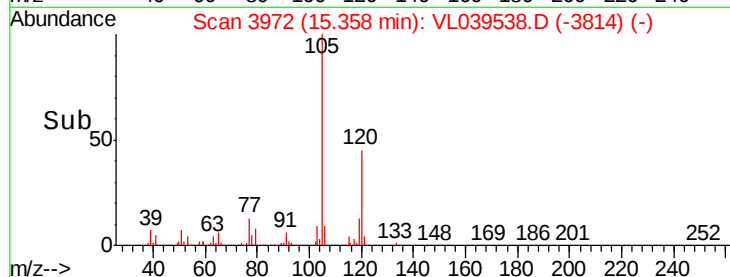
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.021 ppbv

RT: 16.11 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VL039538.D

Acq: 17 Aug 2022 4:56

Tgt Ion:105 Resp: 350745

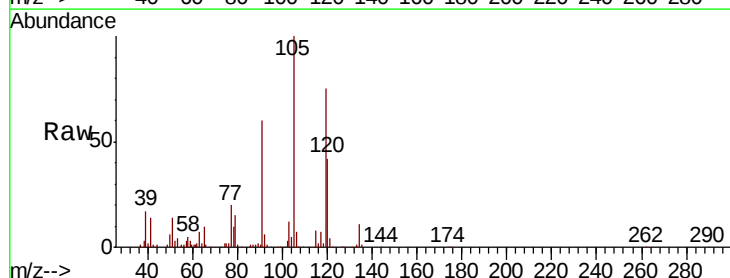
Ion Ratio Lower Upper

105 100

120 40.7 37.8 56.8

91 56.9 43.8 65.6

77 19.2 17.8 26.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

200000

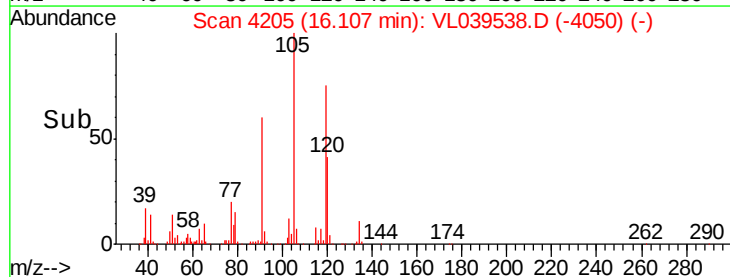
150000

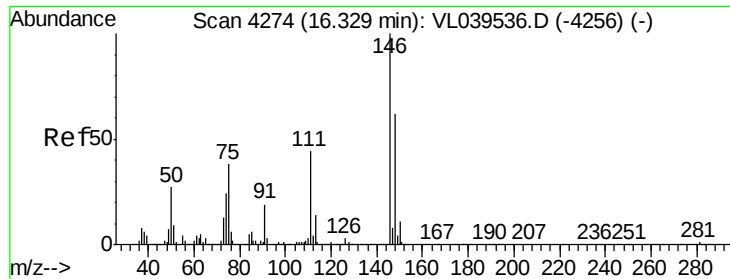
100000

50000

0

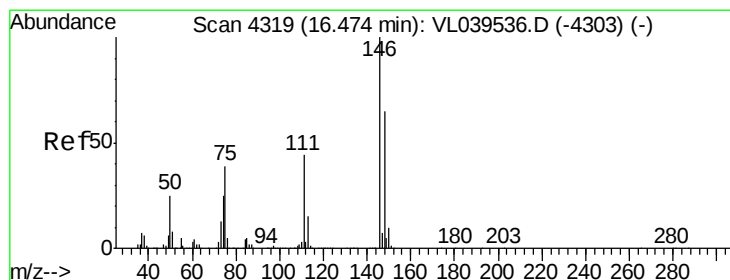
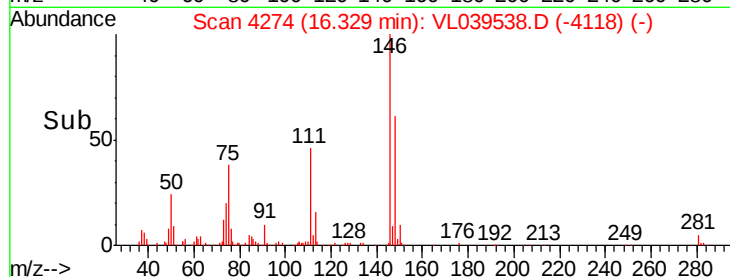
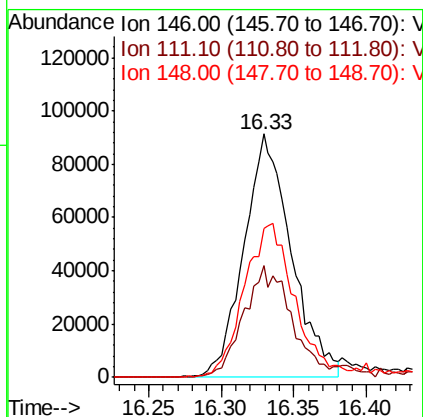
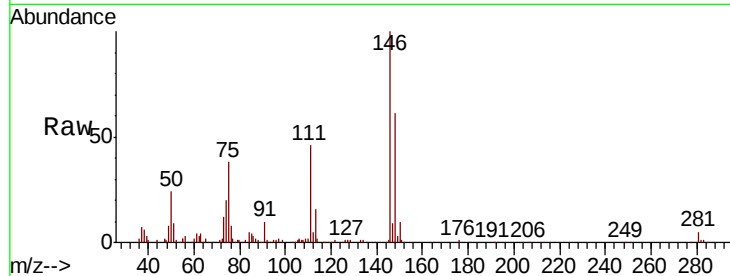
Time-->





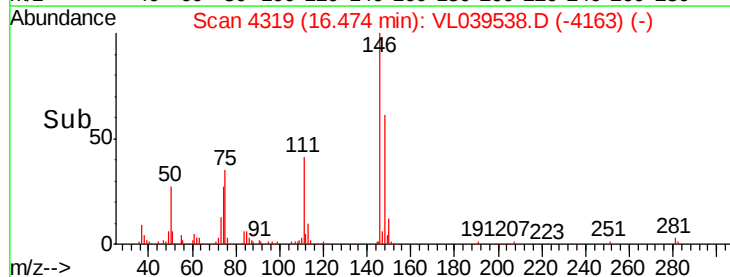
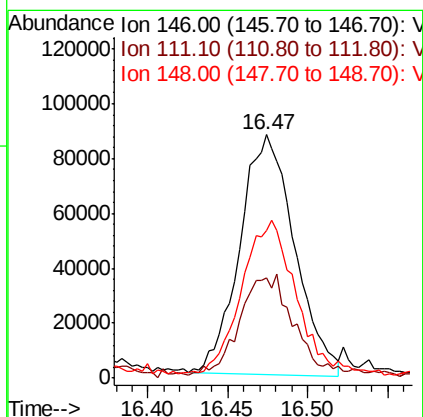
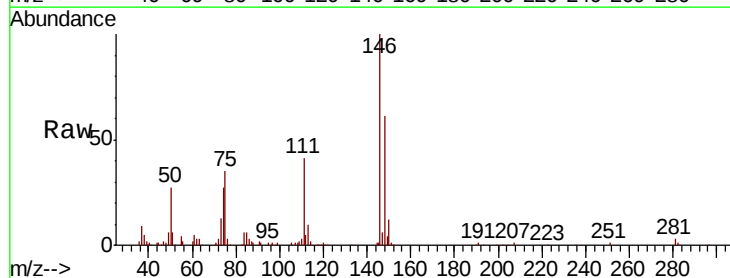
#75  
 1,3-Dichlorobenzene  
 Concen: 1.007 ppbv  
 RT: 16.33  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDIC001  
 Acq: 17 Aug 2022 4:50

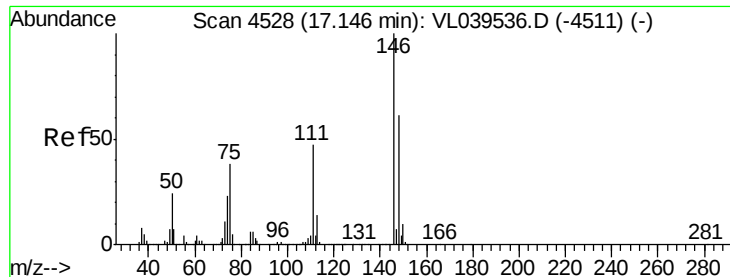
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 49.2  | 22.9  | 68.5  |
| 148     | 69.4  | 32.4  | 97.0  |



#76  
 1,4-Dichlorobenzene  
 Concen: 0.997 ppbv  
 RT: 16.47 min Scan# 4319  
 Delta R.T. 0.00 min  
 Lab File: VL039538.D  
 Acq: 17 Aug 2022 4:56

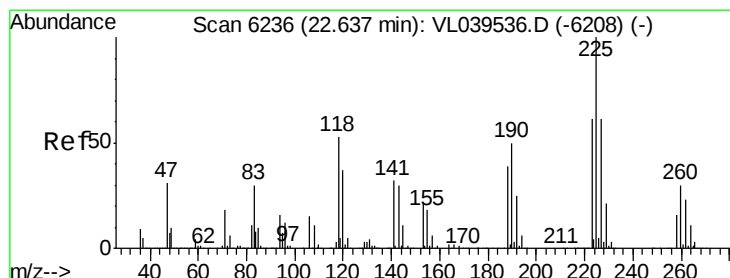
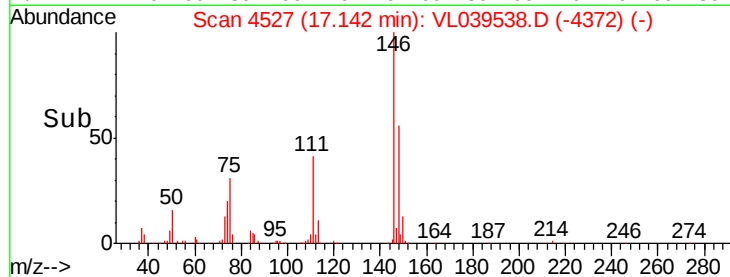
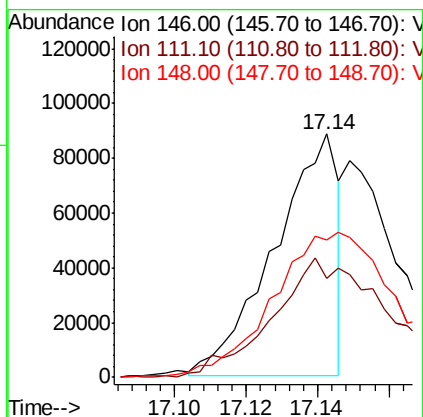
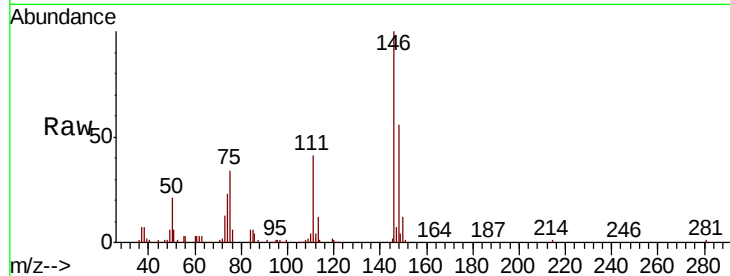
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 47.1  | 22.3  | 66.8  |
| 148     | 72.2  | 31.5  | 94.5  |





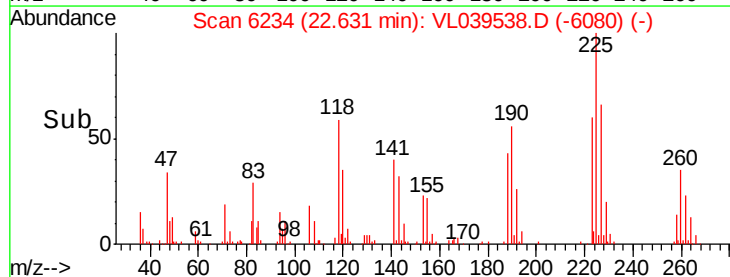
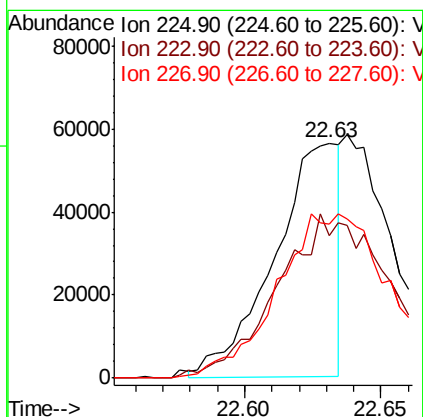
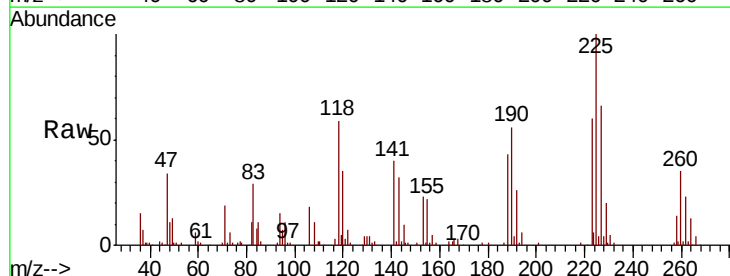
#77  
 1,2-Dichlorobenzene  
 Concen: 0.542 ppbv  
 RT: 17.14 min  
 Delta R.T.: MSVOA\_L  
 Lab File: ClientSampleId: VSTDIC001  
 Acq: 17 Aug 2022 4:56

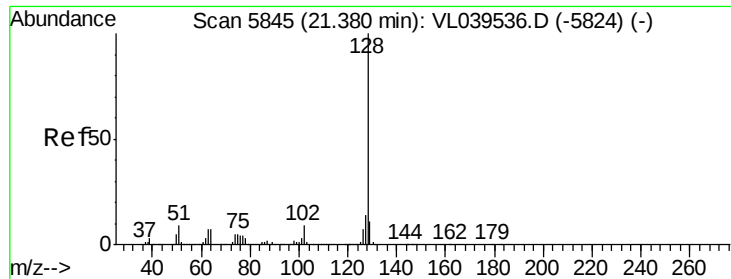
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 96.4  | 23.9  | 71.8# |
| 148     | 0.0   | 32.6  | 97.7# |



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.566 ppbv  
 RT: 22.63 min Scan# 6234  
 Delta R.T.: -0.01 min  
 Lab File: VL039538.D  
 Acq: 17 Aug 2022 4:56

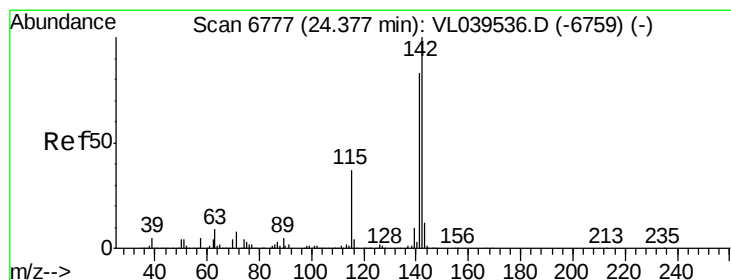
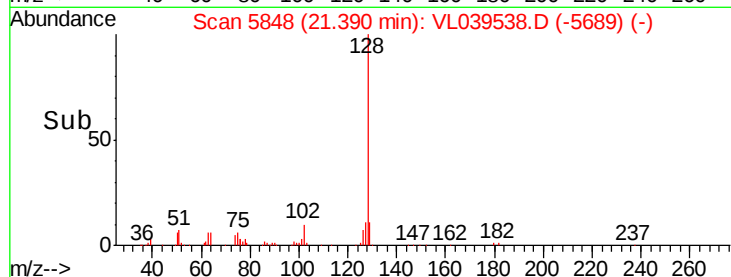
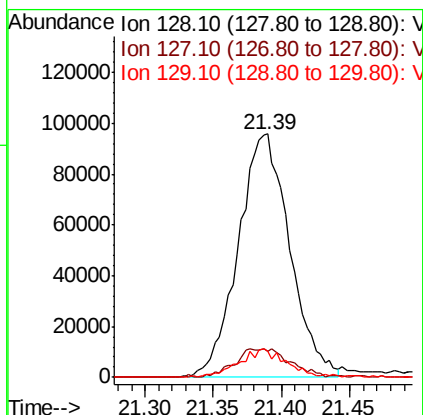
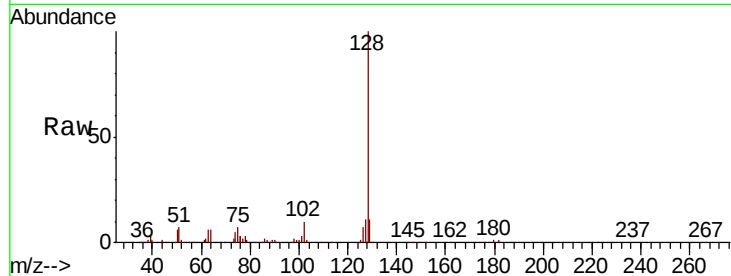
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 122.6 | 0.0   | 0.0#  |
| 227     | 0.0   | 0.0   | 0.0   |





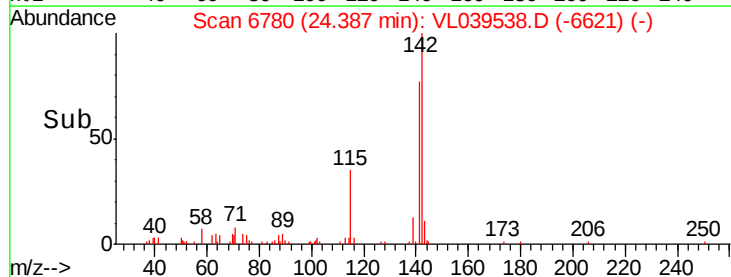
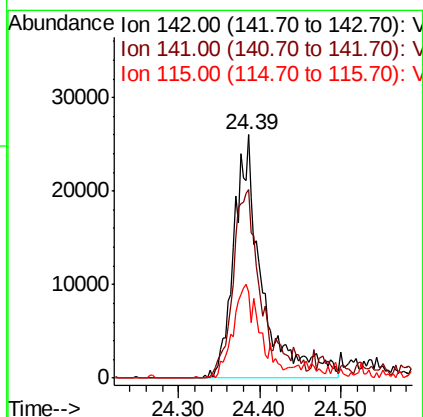
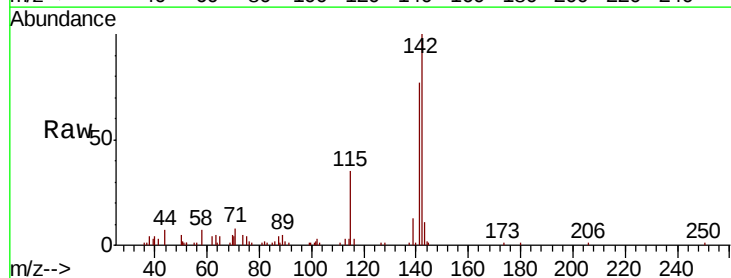
#79  
Naphthalene  
Concen: 1.053 ppbv  
RT: 21.39 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
VSTDIC001  
Acq: 17 Aug 2022 4:56

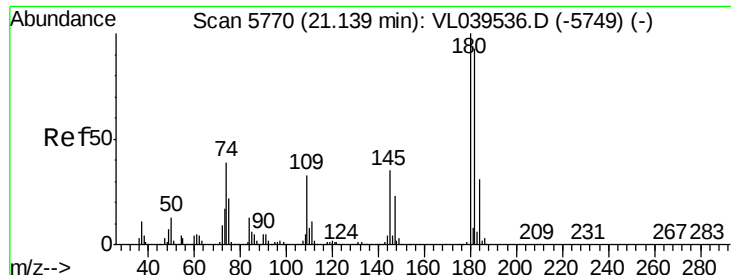
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 9.7   | 10.8  | 16.2# |
| 129     | 10.9  | 9.1   | 13.7  |



#80  
Naphthalene, 2-methyl-  
Concen: 0.736 ppbv  
RT: 24.39 min Scan# 6780  
Delta R.T.: 0.01 min  
Lab File: VL039538.D  
Acq: 17 Aug 2022 4:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 79.6  | 0.0   | 0.0#  |
| 115     | 37.6  | 0.0   | 0.0#  |





#81

1,2,4-Trichlorobenzene

Concen: 0.542 ppbv

RT: 21.14 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

VSTDIC001

Acq: 17 Aug 2022 4:38

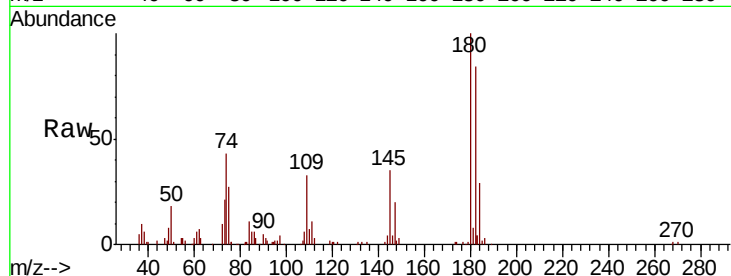
Tot Ion:180 Resp: 83839

Ion Ratio Lower Upper

180 100

182 0.0 0.0 0.0

184 0.0 0.0 0.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

