

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\  
 Data File : VL038096.D  
 Acq On : 23 Nov 2021 12:31  
 Operator : SY/AP  
 Sample : VL1123ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1123ABS01

Quant Time: Nov 24 06:53:34 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Nov 18 13:16:09 2021  
 QLast Update : Thu Nov 18 13:16:09 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 945651   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 2736421  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3116649  | 10.00 | ppbv  | 0.00     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 1955386  | 8.70     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 87.00% |

## Target Compounds

|                                |      |     |         |              | Ovalue |
|--------------------------------|------|-----|---------|--------------|--------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 1174534 | 7.519 ppbv   | 99     |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 1891579 | 9.525 ppbv   | 99     |
| 4) Chloromethane               | 3.15 | 50  | 629197  | 9.307 ppbv   | 98     |
| 5) Vinyl Chloride              | 3.27 | 62  | 641786  | 9.677 ppbv   | 99     |
| 6) Bromomethane                | 3.48 | 94  | 340492  | 9.584 ppbv   | 100    |
| 7) Chloroethane                | 3.56 | 64  | 205190  | 8.718 ppbv   | 94     |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 1478821 | 9.517 ppbv   | 96     |
| 9) Propene                     | 3.02 | 41  | 632210  | 8.644 ppbv   | 97     |
| 10) Heptane                    | 8.12 | 43  | 1600511 | 8.854 ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 1433797 | 9.651 ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1003296 | 9.547 ppbv   | 100    |
| 13) Ethanol                    | 3.61 | 45  | 27834   | 3.938 ppbv # | 57     |
| 14) Bromoethene                | 3.75 | 108 | 438960  | 9.328 ppbv   | 99     |
| 15) Acetone                    | 3.86 | 43  | 715913  | 8.732 ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.33 | 39  | 605541  | 9.467 ppbv   | 97     |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 842575  | 8.472 ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 459979  | 9.542 ppbv   | 94     |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 450718  | 7.608 ppbv # | 95     |
| 20) Methylene Chloride         | 4.35 | 84  | 400851  | 8.729 ppbv   | 97     |
| 21) Allyl Chloride             | 4.42 | 41  | 697274  | 9.188 ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 482949  | 9.891 ppbv   | 96     |
| 23) Vinyl Acetate              | 5.08 | 43  | 1101566 | 9.281 ppbv   | 98     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 957537  | 9.688 ppbv   | 98     |
| 25) Ethyl Acetate              | 5.68 | 43  | 2448212 | 8.984 ppbv   | 99     |
| 26) Hexane                     | 5.69 | 57  | 1183172 | 9.008 ppbv   | 96     |
| 27) Carbon Disulfide           | 4.56 | 76  | 1147355 | 9.752 ppbv   | 98     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 1070072 | 9.591 ppbv   | 99     |
| 29) Chloroform                 | 5.75 | 83  | 1825249 | 9.429 ppbv   | 98     |
| 30) Cyclohexane                | 7.13 | 84  | 1047744 | 8.787 ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 1185509 | 9.489 ppbv   | 93     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 1868420 | 9.511 ppbv   | 98     |
| 34) 2-Butanone                 | 5.25 | 43  | 831205  | 7.533 ppbv   | 100    |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 1906267 | 9.915 ppbv   | 99     |
| 36) Benzene                    | 6.90 | 78  | 2527477 | 9.259 ppbv   | 99     |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 1396939 | 10.596 ppbv  | 98     |
| 38) Trichloroethene            | 7.83 | 130 | 903045  | 8.771 ppbv   | 97     |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 994968  | 9.502 ppbv   | 95     |
| 40) 1,4-Dioxane                | 7.83 | 88  | 145461  | 5.332 ppbv   | 73     |
| 41) Tetrahydrofuran            | 6.05 | 42  | 632828  | 9.239 ppbv   | 99     |
| 42) Bromodichloromethane       | 7.79 | 83  | 2023032 | 10.094 ppbv  | 98     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 938205  | 10.047 ppbv  | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112321\  
 Data File : VL038096.D  
 Acq On : 23 Nov 2021 12:31  
 Operator : SY/AP  
 Sample : VL1123ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

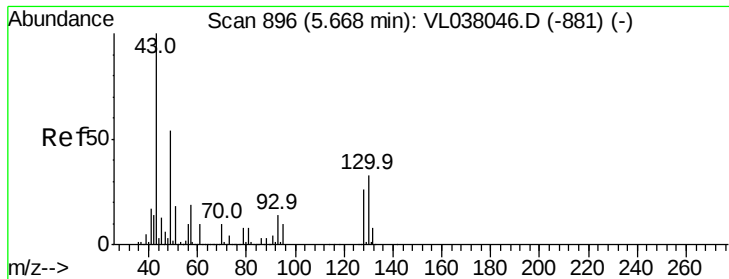
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1123ABS01

Quant Time: Nov 24 06:53:34 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Nov 18 13:16:09 2021  
 QLast Update : Thu Nov 18 13:16:09 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 4120550  | 9.023  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 822425   | 10.979 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1040592  | 10.271 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1010170  | 9.212  | ppbv   | 95       |
| 48) Dibromochloromethane      | 10.30 | 129  | 1641518  | 9.829  | ppbv   | 98       |
| 49) Bromoform                 | 13.04 | 173  | 1178191  | 9.861  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 1625750  | 9.702  | ppbv   | 100      |
| 51) 2-Hexanone                | 10.14 | 43   | 754900   | 9.575  | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.22 | 164  | 826280   | 8.181  | ppbv   | 99       |
| 53) Toluene                   | 9.81  | 91   | 2853093  | 9.084  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 1455113  | 9.394  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1054258  | 7.451  | ppbv   | 99       |
| 57) Chlorobenzene             | 12.14 | 112  | 1996525  | 7.147  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.71 | 91   | 3705509  | 7.193  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.00 | 91   | 2888494  | 6.661  | ppbv # | 26       |
| 60) o-Xylene                  | 13.69 | 91   | 2876549  | 7.151  | ppbv   | 97       |
| 61) Styrene                   | 13.52 | 104  | 1552417  | 7.198  | ppbv   | 95       |
| 62) Isopropylbenzene          | 14.66 | 105  | 3947323  | 6.913  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 2004283  | 6.708  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.56 | 120  | 1024630  | 7.044  | ppbv   | 95       |
| 65) tert-Butylbenzene         | 16.74 | 119  | 3346630  | 6.653  | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.99 | 91   | 174507   | 6.845  | ppbv   | 97       |
| 67) sec-Butylbenzene          | 17.29 | 105  | 4718956  | 6.732  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 3772271  | 6.880  | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.55 | 91   | 3749972  | 7.153  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.45 | 91   | 2950080  | 7.067  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.83 | 105  | 3357601  | 7.199  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 15.99 | 105  | 3031814  | 7.117  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 3028284  | 6.899  | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 1691210  | 7.015  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 1636169  | 6.744  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.81 | 146  | 1584286  | 6.786  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.37 | 225  | 869307   | 5.964  | ppbv   | 98       |
| 79) Naphthalene               | 22.19 | 128  | 1659917  | 7.180  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.96 | 142  | 346886   | 7.002  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.92 | 180  | 894860   | 6.736  | ppbv   | 97       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

VL1123ABS01

Acq: 23 Nov 2021 12:31

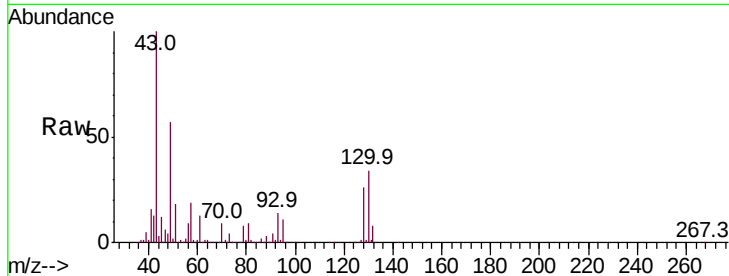
Tot Ion: 49 Resp: 945651

Ion Ratio Lower Upper

49 100

128 51.4 26.5 79.5

130 62.6 32.5 97.4



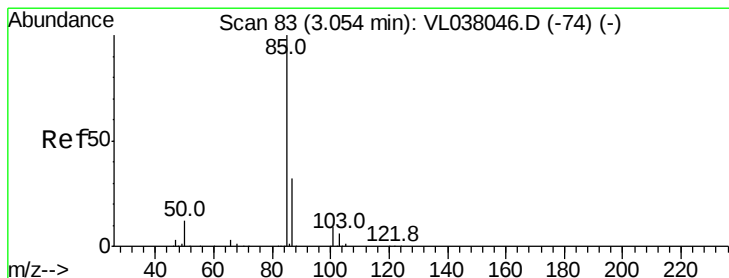
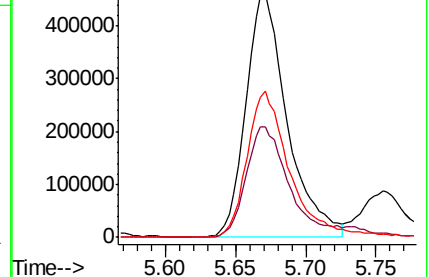
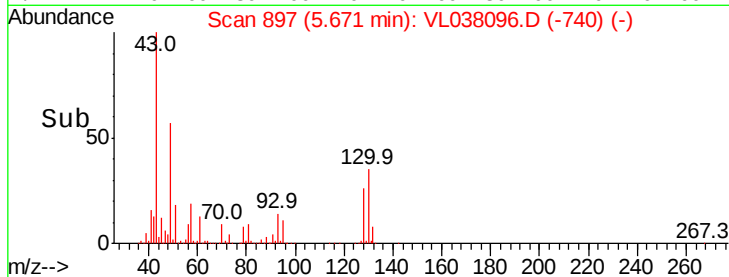
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.67

Time-->



#2

Dichlorodifluoromethane

Concen: 7.519 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038096.D

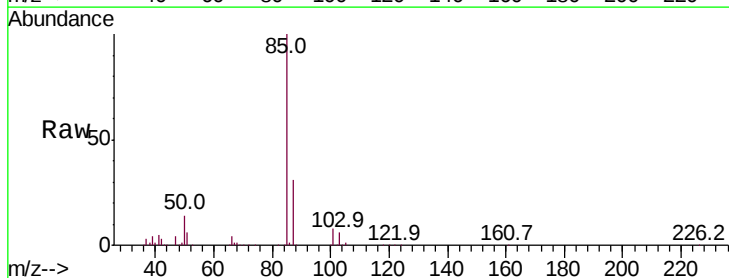
Acq: 23 Nov 2021 12:31

Tgt Ion: 85 Resp: 1174534

Ion Ratio Lower Upper

85 100

87 31.4 25.8 38.6

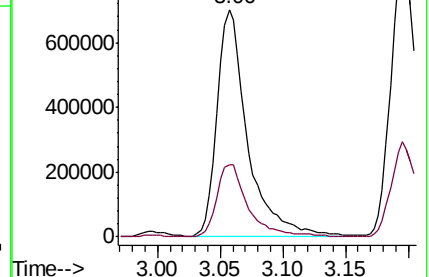
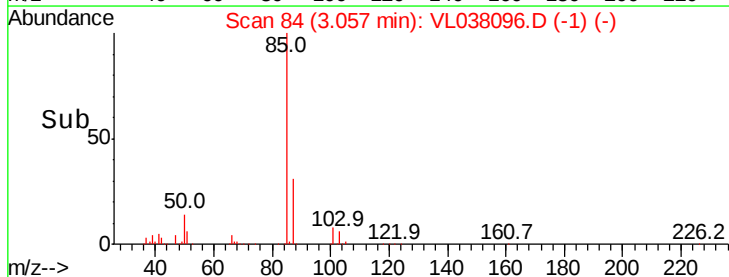


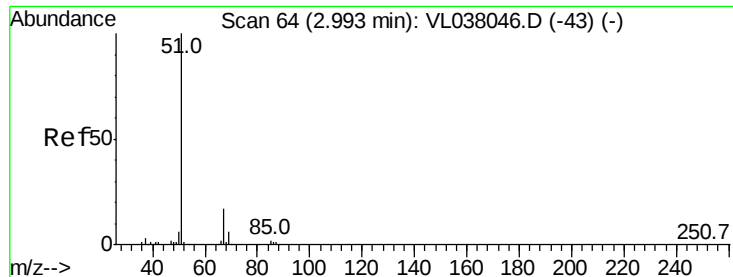
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.06

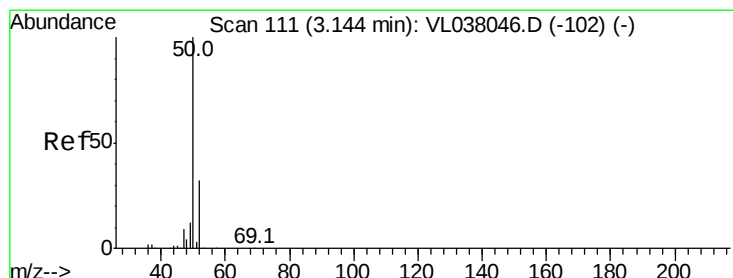
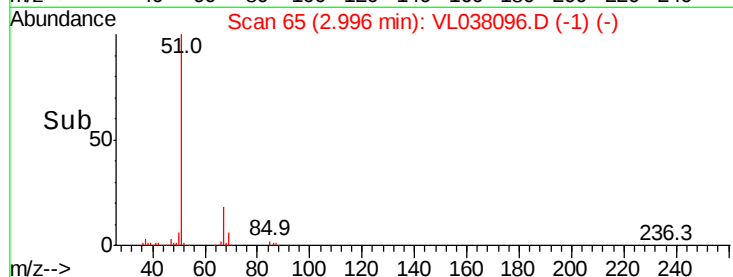
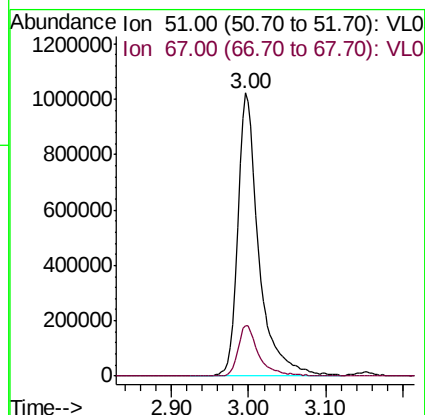
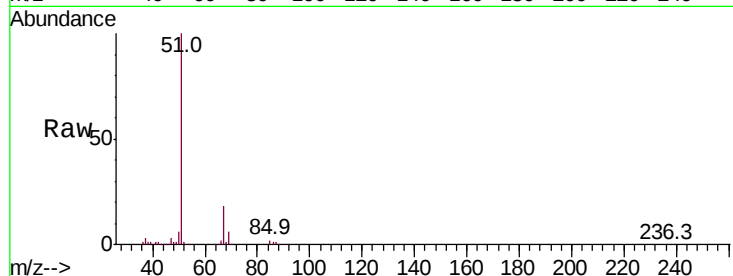
Time-->





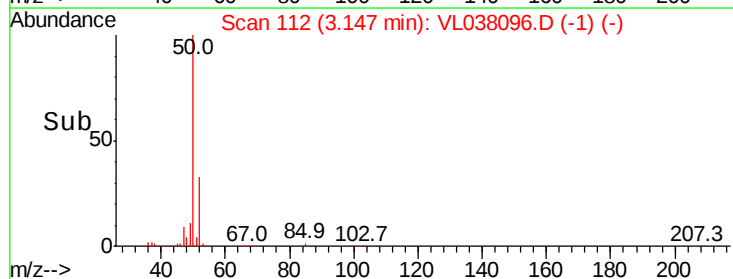
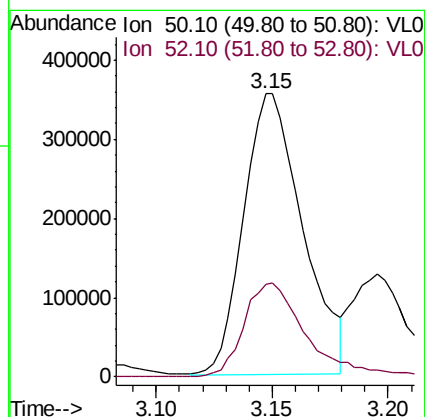
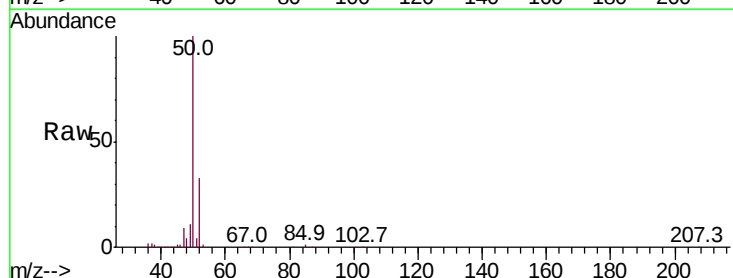
#3  
 Chlorodifluoromethane  
 Concen: 9.525 ppbv  
 RT: 3.00  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VL1123ABS01  
 Acq: 23 Nov 2021 12:31

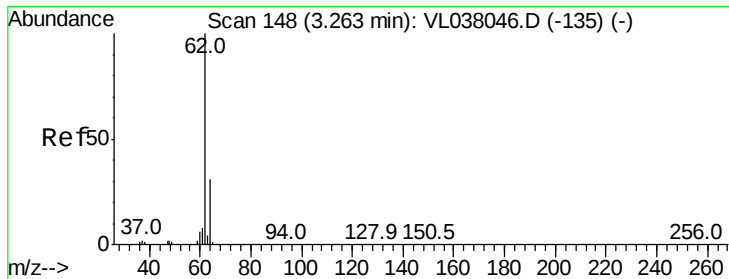
Tot Ion: 51 Resp: 1891579  
 Ion Ratio Lower Upper  
 51 100  
 67 17.8 13.8 20.8



#4  
 Chloromethane  
 Concen: 9.307 ppbv  
 RT: 3.15 min Scan# 112  
 Delta R.T. 0.00 min  
 Lab File: VL038096.D  
 Acq: 23 Nov 2021 12:31

Tgt Ion: 50 Resp: 629197  
 Ion Ratio Lower Upper  
 50 100  
 52 33.0 25.4 38.0





#5

Vinyl Chloride

Concen: 9.677 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

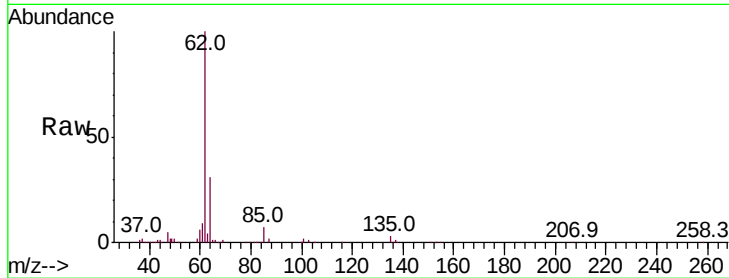
Acq: 23 Nov 2021 12:31

Tot Ion: 62 Resp: 641786

Ion Ratio Lower Upper

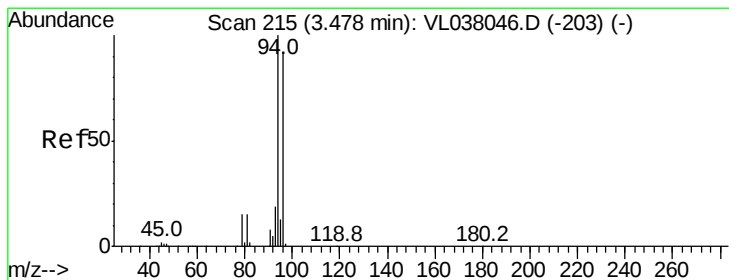
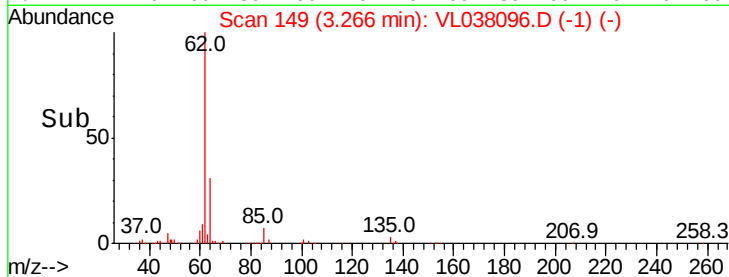
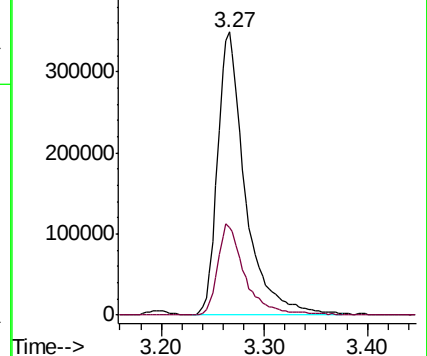
62 100

64 31.1 25.1 37.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.584 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.00 min

Lab File: VL038096.D

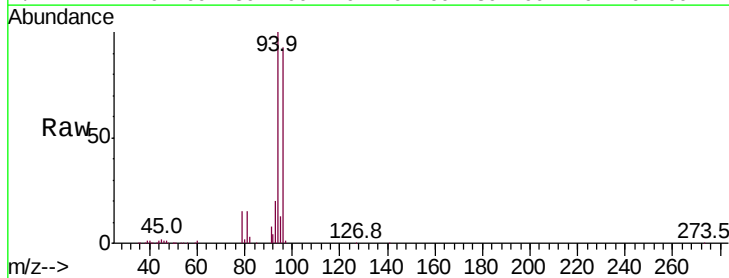
Acq: 23 Nov 2021 12:31

Tgt Ion: 94 Resp: 340492

Ion Ratio Lower Upper

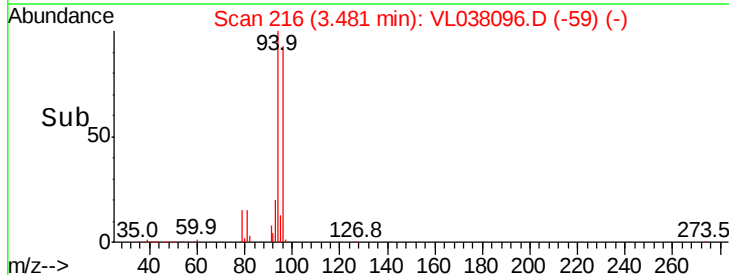
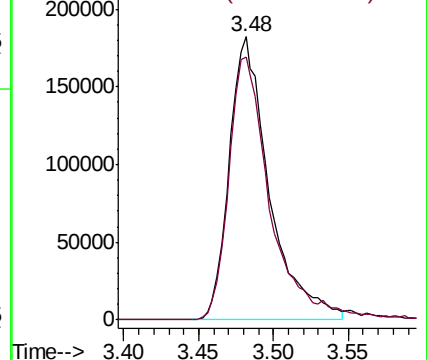
94 100

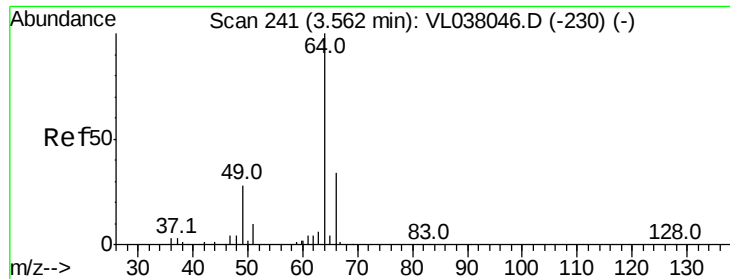
96 92.7 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.718 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

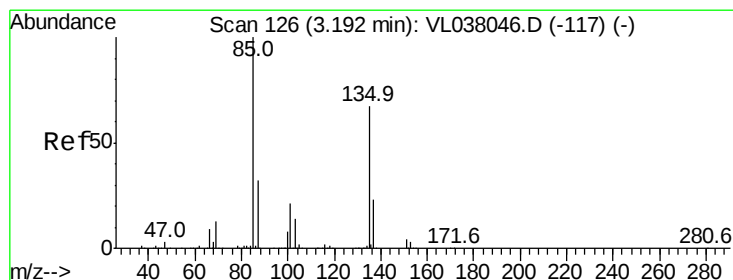
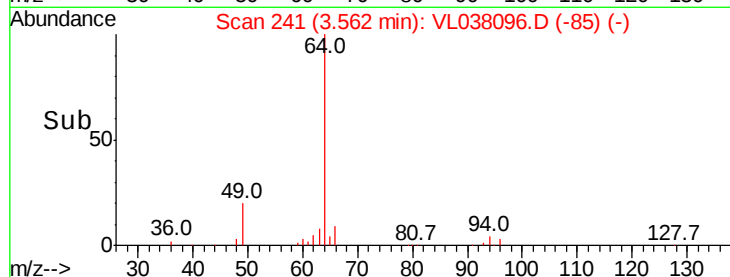
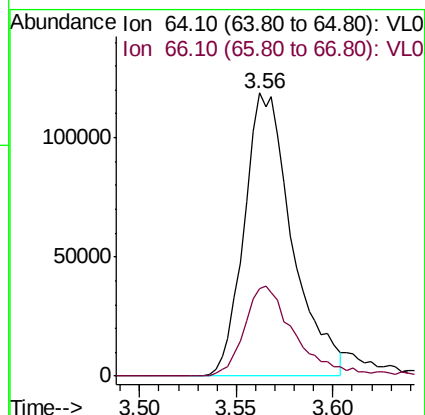
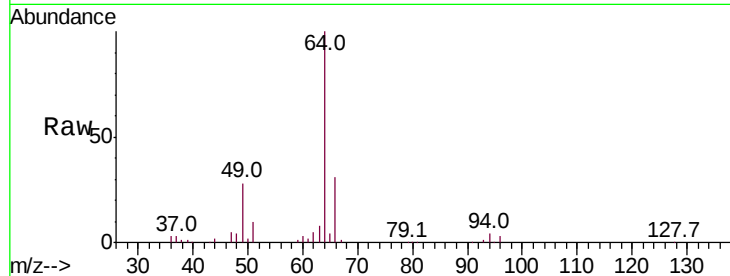
Acq: 23 Nov 2021 12:31 VL1123ABS01

Tot Ion: 64 Resp: 205190

Ion Ratio Lower Upper

64 100

66 30.8 27.2 40.8



#8

Dichlorotetrafluoroethane

Concen: 9.517 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.00 min

Lab File: VL038096.D

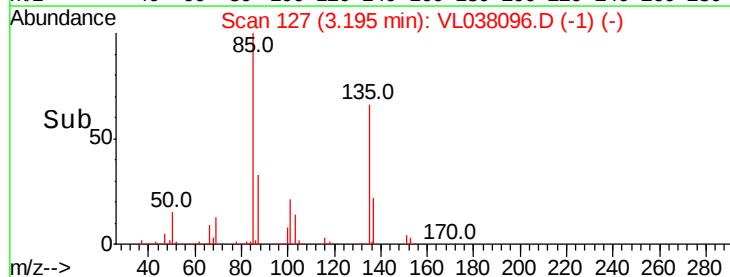
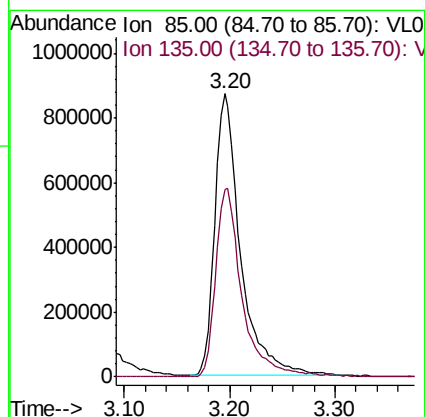
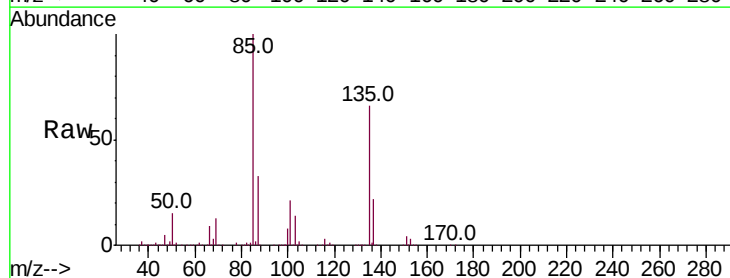
Acq: 23 Nov 2021 12:31

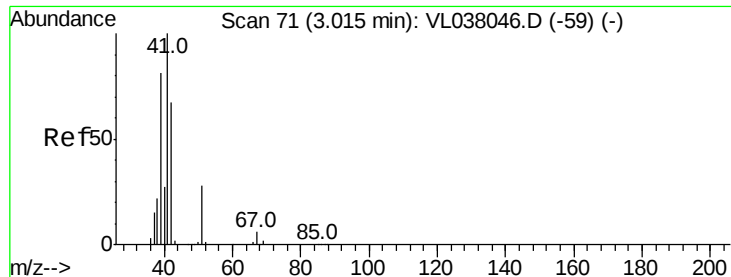
Tgt Ion: 85 Resp: 1478821

Ion Ratio Lower Upper

85 100

135 69.2 57.9 86.9





#9

Propene

Concen: 8.644 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

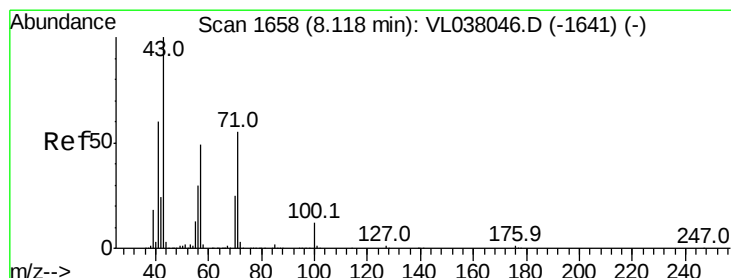
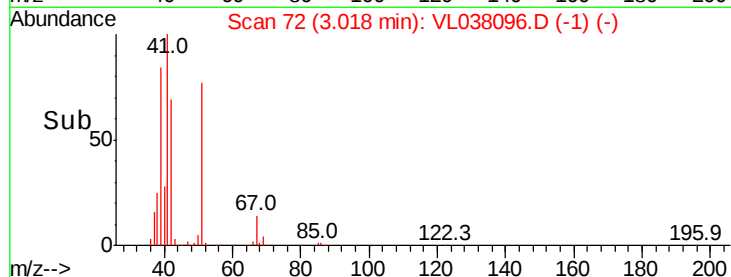
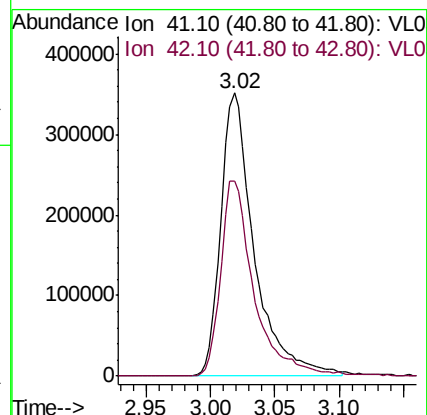
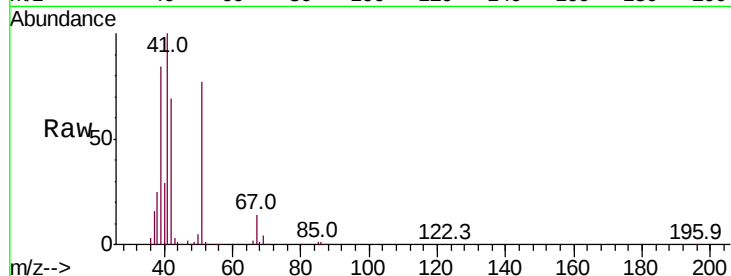
Acq: 23 Nov 2021 12:31 VL1123ABS01

Tot Ion: 41 Resp: 632210

Ion Ratio Lower Upper

41 100

42 69.6 53.8 80.8



#10

Heptane

Concen: 8.854 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VL038096.D

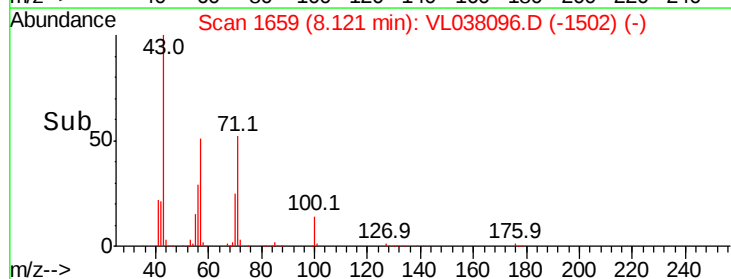
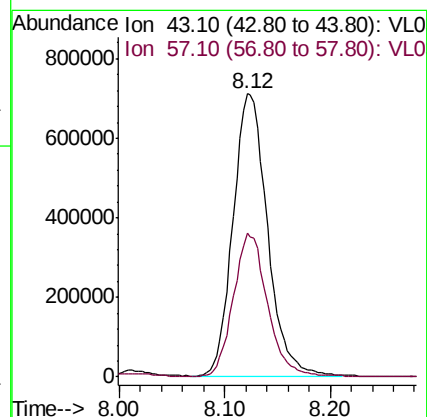
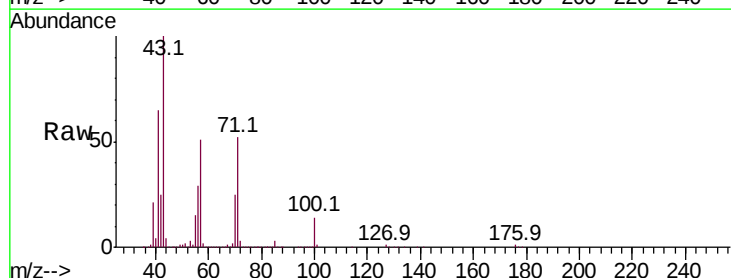
Acq: 23 Nov 2021 12:31

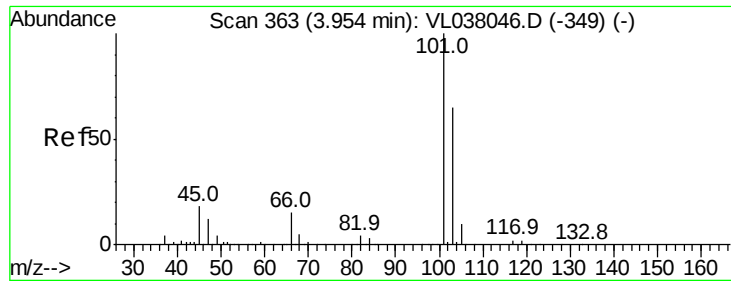
Tgt Ion: 43 Resp: 1600511

Ion Ratio Lower Upper

43 100

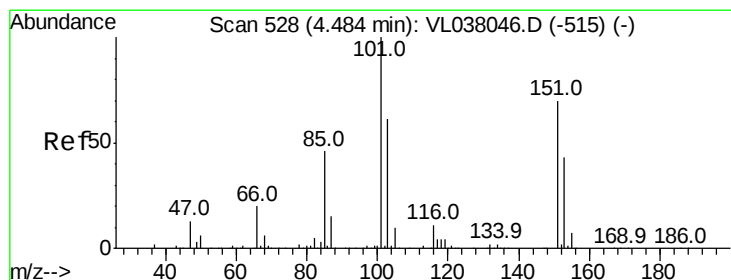
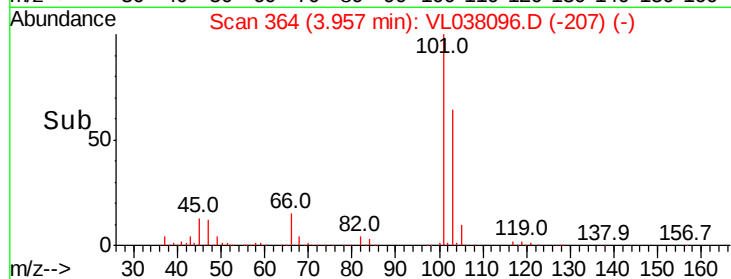
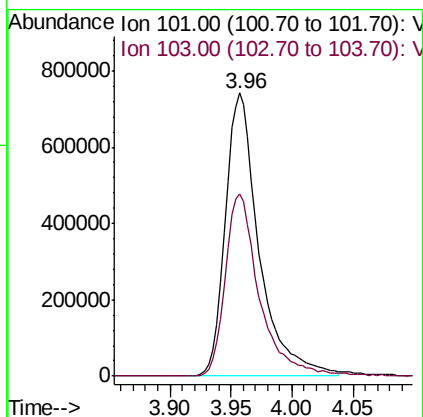
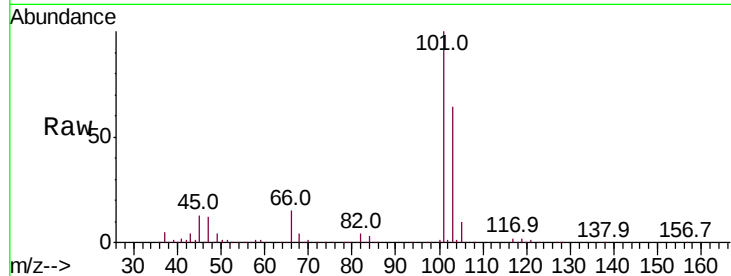
57 50.2 40.4 60.6





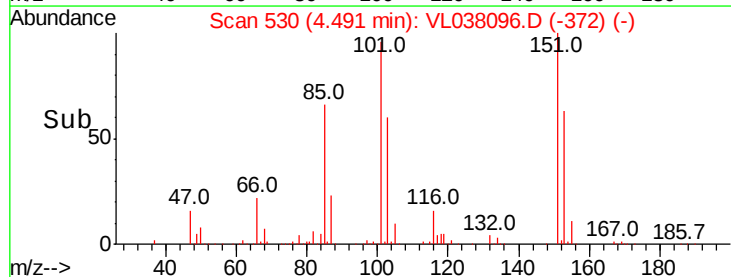
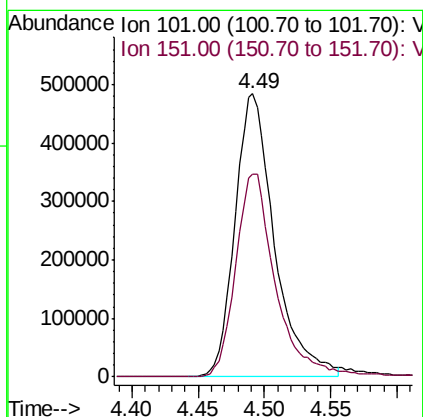
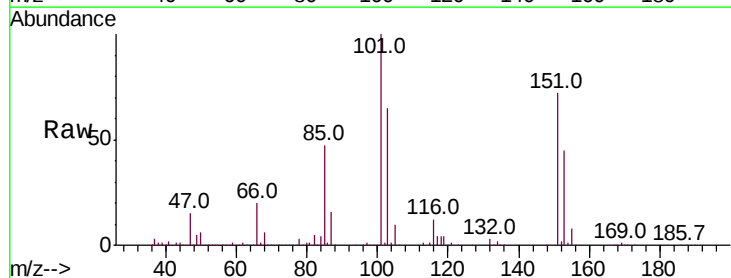
#11  
 Trichlorofluoromethane  
 Concen: 9.651 ppbv  
 RT: 3.96  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VL1123ABS01  
 Acq: 23 Nov 2021 12:31

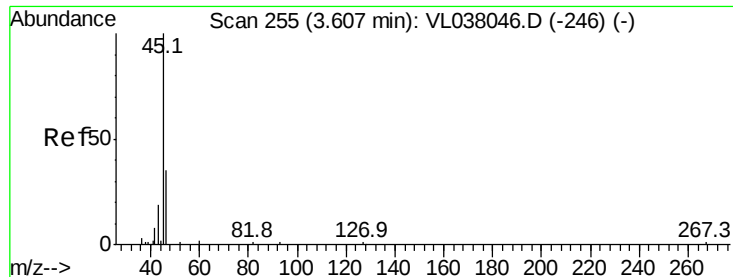
Tot Ion:101 Resp: 1433797  
 Ion Ratio Lower Upper  
 101 100  
 103 64.4 51.8 77.6



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.547 ppbv  
 RT: 4.49 min Scan# 530  
 Delta R.T. 0.01 min  
 Lab File: VL038096.D  
 Acq: 23 Nov 2021 12:31

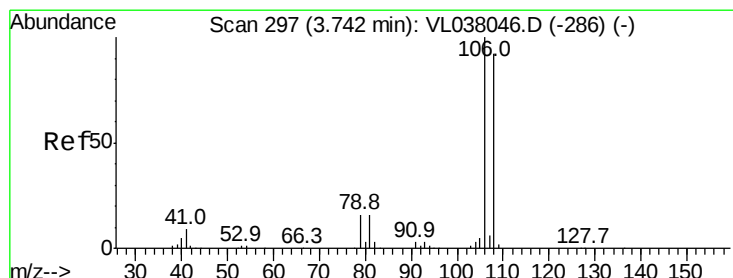
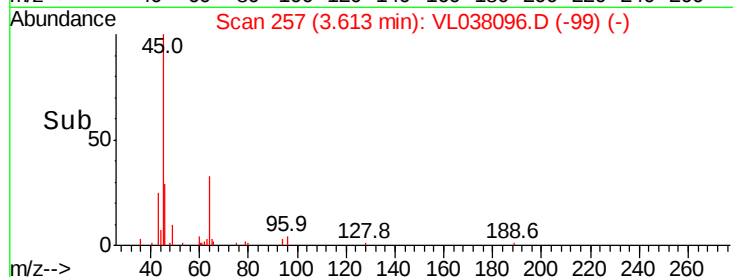
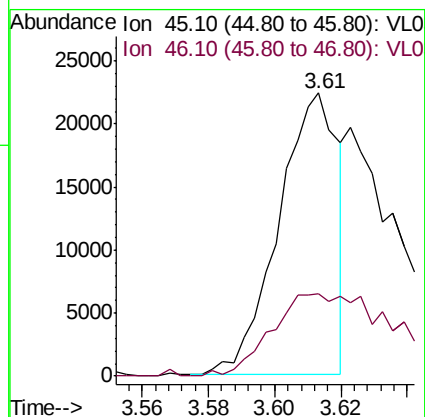
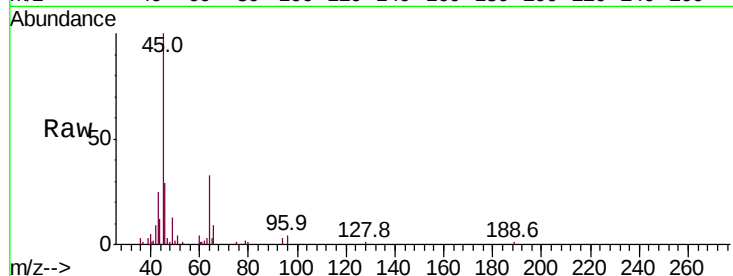
Tgt Ion:101 Resp: 1003296  
 Ion Ratio Lower Upper  
 101 100  
 151 73.3 59.0 88.4





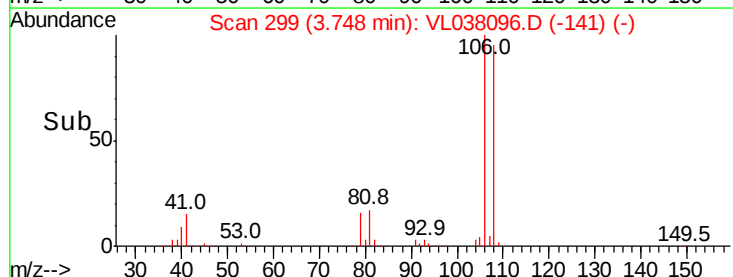
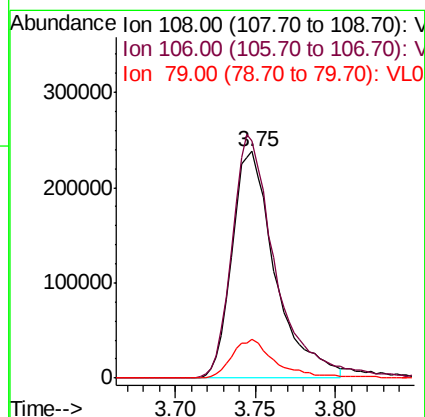
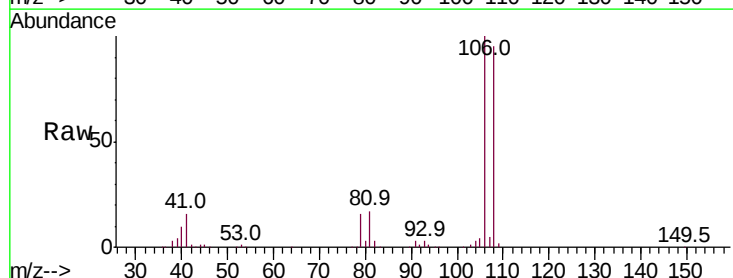
#13  
Ethanol  
Concen: 3.938 ppbv  
RT: 3.61  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId:  
VL1123ABS01  
Acq: 23 Nov 2021 12:31

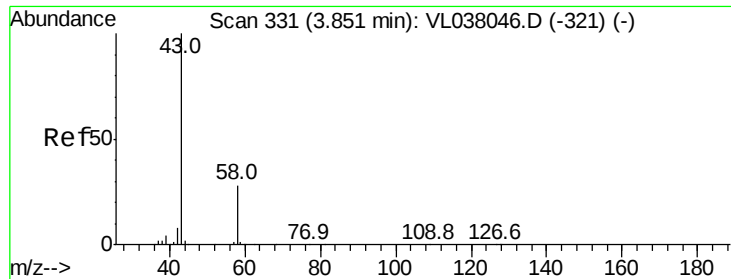
Tot Ion: 45 Resp: 27834  
Ion Ratio Lower Upper  
45 100  
46 71.7 17.6 70.2#



#14  
Bromoethene  
Concen: 9.328 ppbv  
RT: 3.75 min Scan# 299  
Delta R.T. 0.01 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

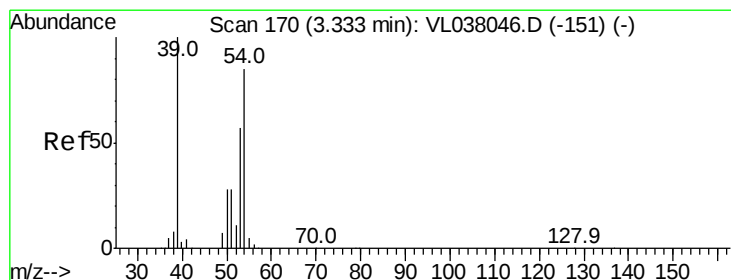
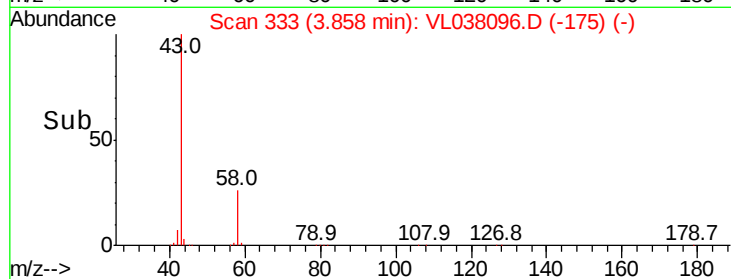
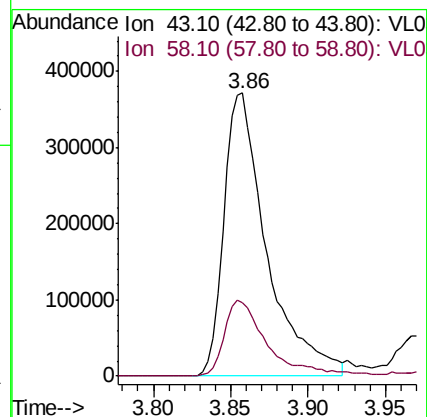
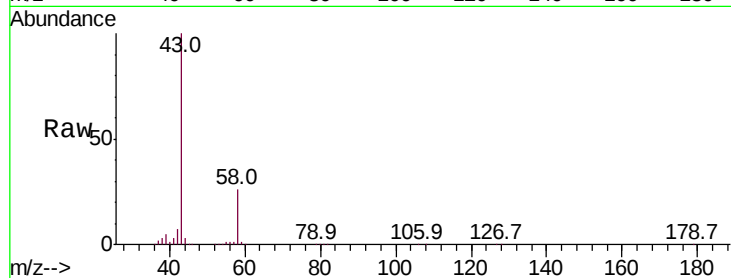
Tgt Ion: 108 Resp: 438960  
Ion Ratio Lower Upper  
108 100  
106 110.0 89.4 134.0  
79 17.9 14.1 21.1





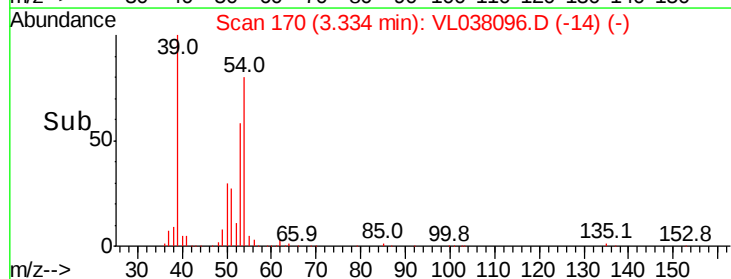
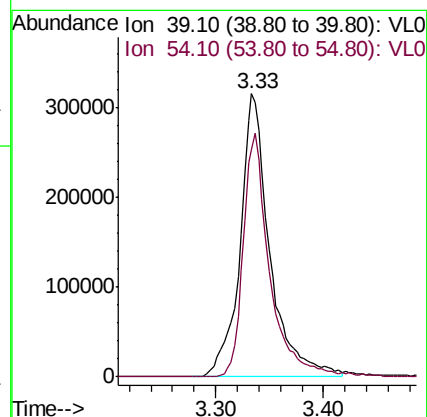
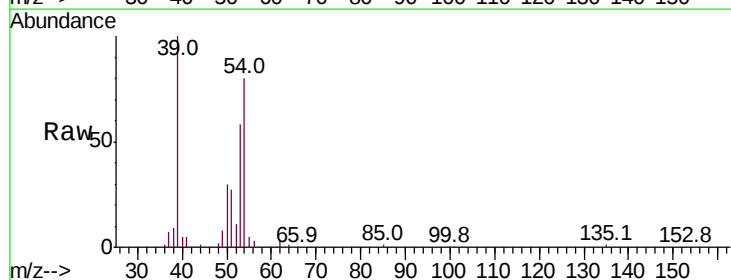
#15  
Acetone  
Concen: 8.732 ppbv  
RT: 3.86  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 23 Nov 2021 12:31

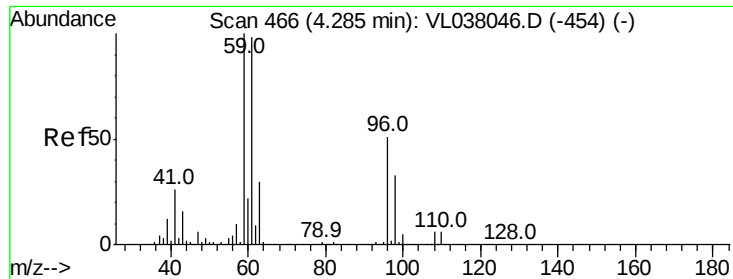
Tot Ion: 43 Resp: 715913  
Ion Ratio Lower Upper  
43 100  
58 27.2 22.4 33.6



#16  
1,3-Butadiene  
Concen: 9.467 ppbv  
RT: 3.33 min Scan# 170  
Delta R.T. 0.00 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

Tgt Ion: 39 Resp: 605541  
Ion Ratio Lower Upper  
39 100  
54 77.5 64.4 96.6





#17

tert-Butyl alcohol

Concen: 8.472 ppbv

RT: 4.29 Instrument: MSVOA\_1

Delta R.T. 0.01 min

Lab File: VL1123ABS01

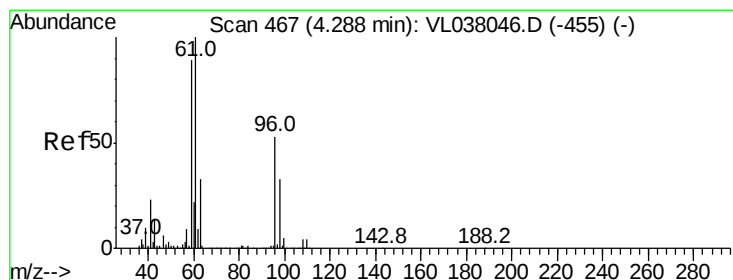
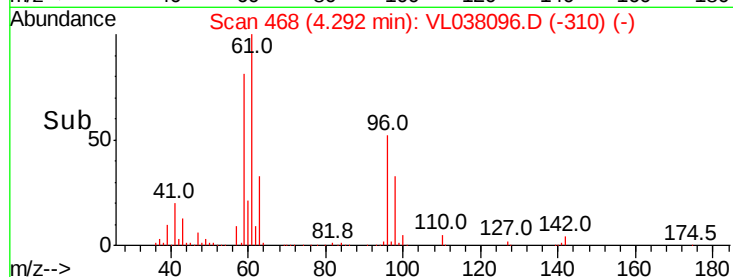
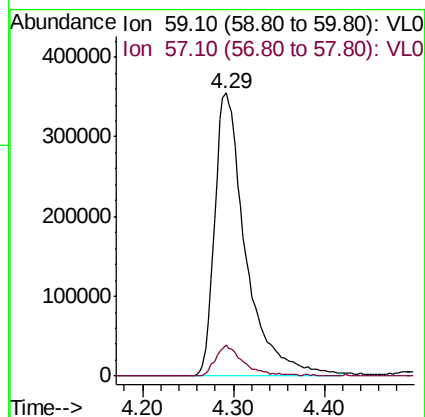
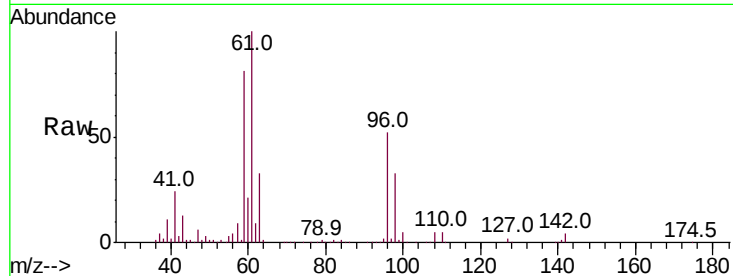
Acq: 23 Nov 2021 12:31

Tot Ion: 59 Resp: 842575

Ion Ratio Lower Upper

59 100

57 10.2 8.6 13.0



#18

1,1-Dichloroethene

Concen: 9.542 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.01 min

Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

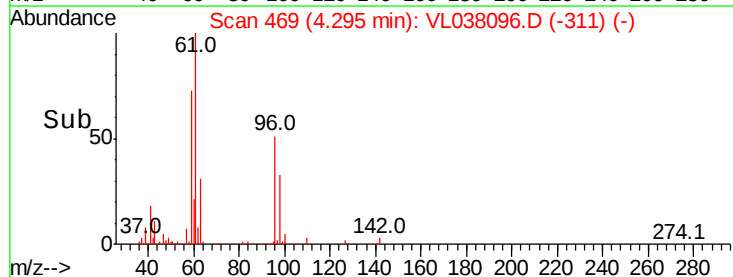
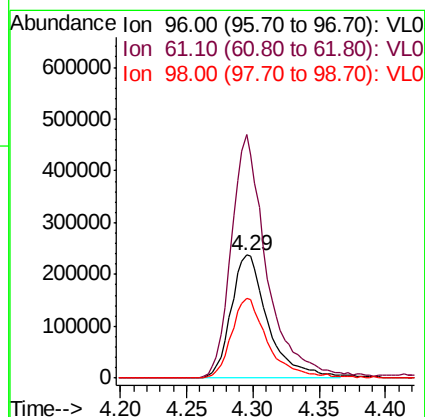
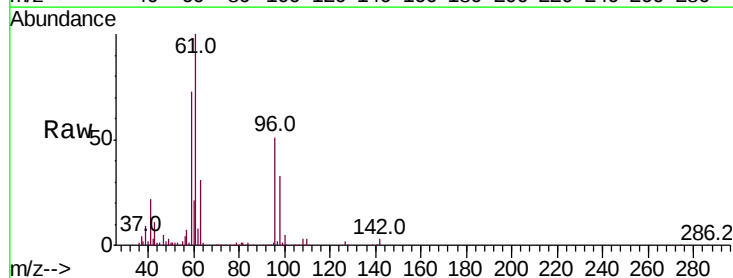
Tgt Ion: 96 Resp: 459979

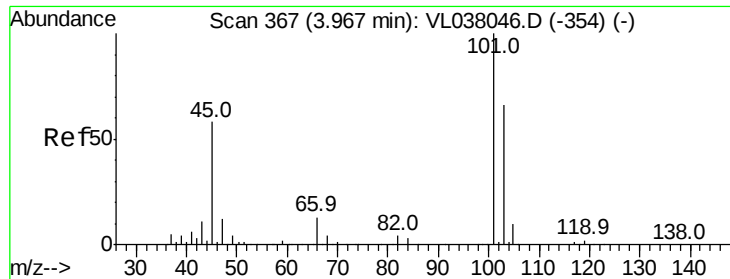
Ion Ratio Lower Upper

96 100

61 197.8 149.8 224.8

98 64.6 50.2 75.2





#19

Isopropyl Alcohol

Concen: 7.608 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

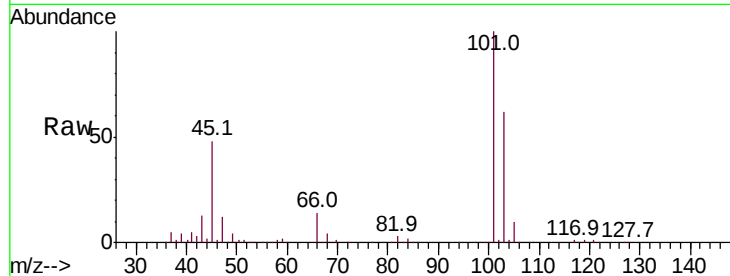
Acq: 23 Nov 2021 12:31 VL1123ABS01

Tot Ion: 45 Resp: 450718

Ion Ratio Lower Upper

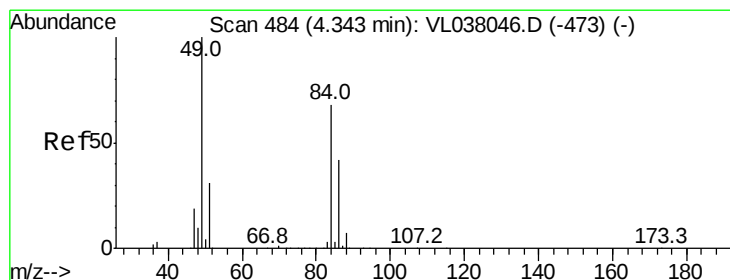
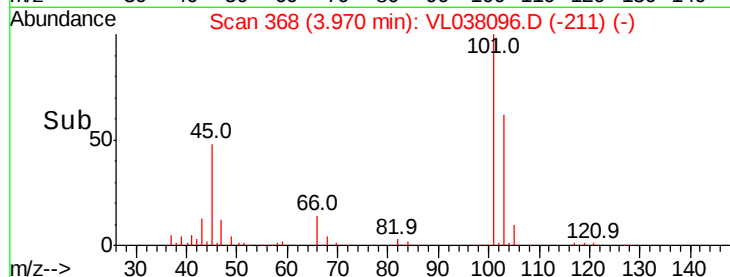
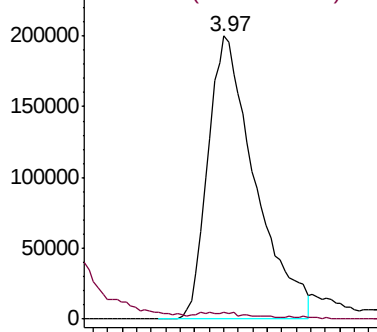
45 100

58 3.4 1.4 2.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.729 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

Tgt Ion: 84 Resp: 400851

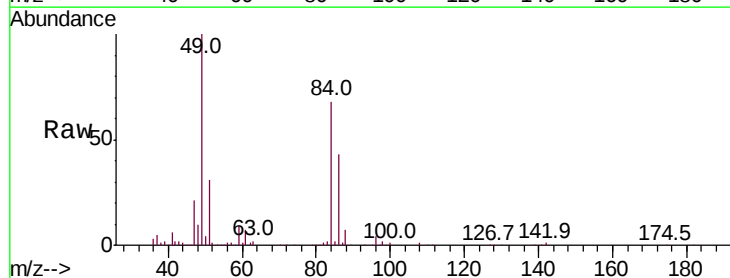
Ion Ratio Lower Upper

84 100

49 144.4 118.2 177.2

51 43.8 36.8 55.2

86 63.6 49.0 73.6

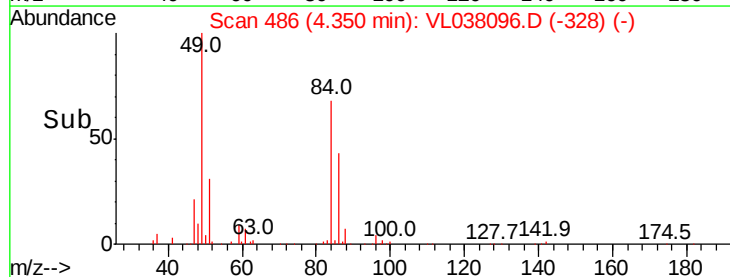
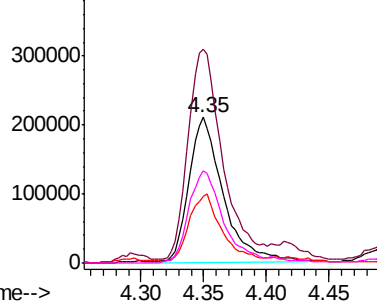


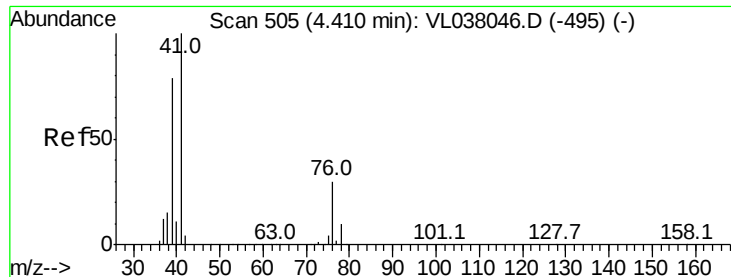
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

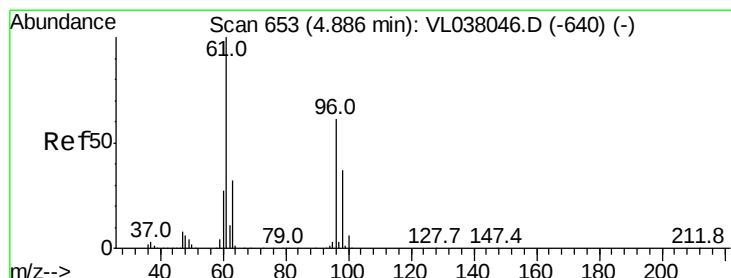
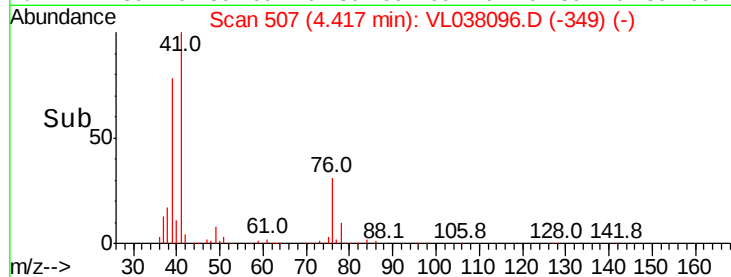
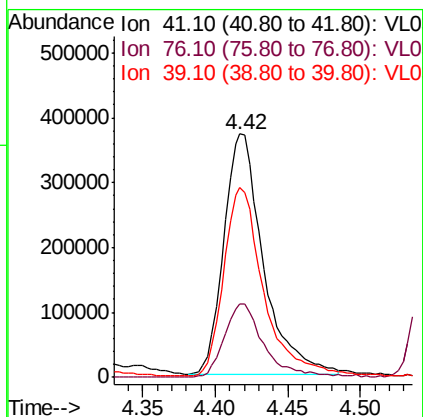
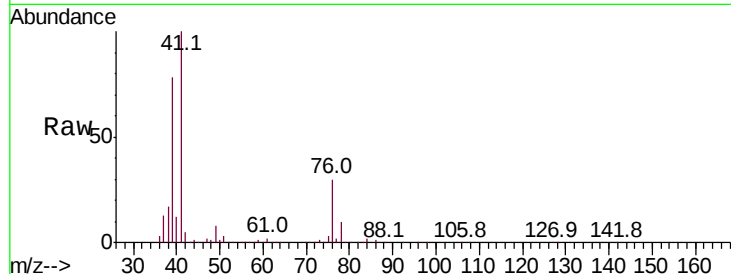
Ion 86.00 (85.70 to 86.70): VL0





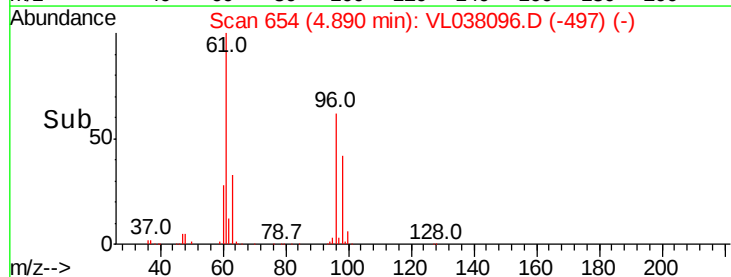
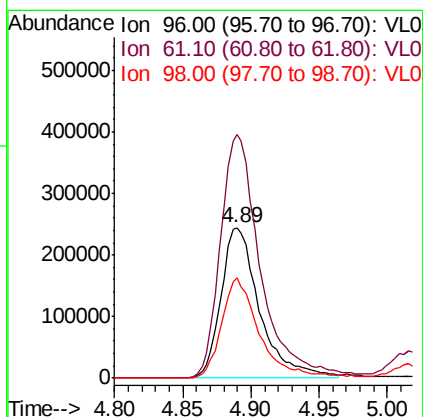
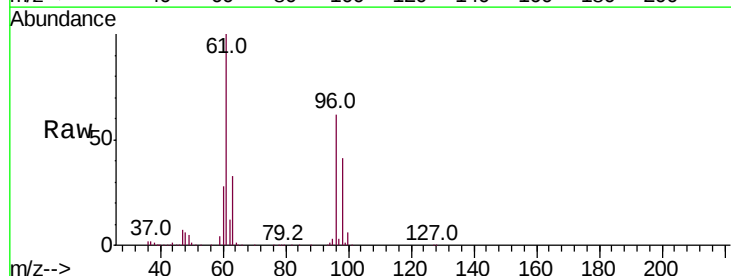
#21  
Allvl Chloride  
Concen: 9.188 ppbv  
RT: 4.42  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId : VL1123ABS01  
Acq: 23 Nov 2021 12:31

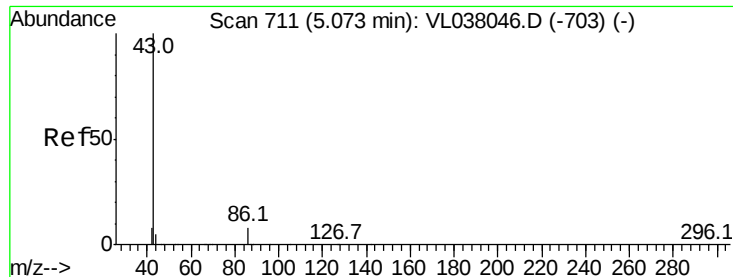
Tot Ion: 41 Resp: 697274  
Ion Ratio Lower Upper  
41 100  
76 31.0 24.6 36.8  
39 80.4 63.4 95.0



#22  
trans-1,2-Dichloroethene  
Concen: 9.891 ppbv  
RT: 4.89 min Scan# 654  
Delta R.T. 0.00 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

Tgt Ion: 96 Resp: 482949  
Ion Ratio Lower Upper  
96 100  
61 161.3 131.6 197.4  
98 66.8 48.4 72.6





#23

Vinyl Acetate

Concen: 9.281 ppbv

RT: 5.08 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 23 Nov 2021 12:31 VL1123ABS01

Tot Ion: 43 Resp: 1101566

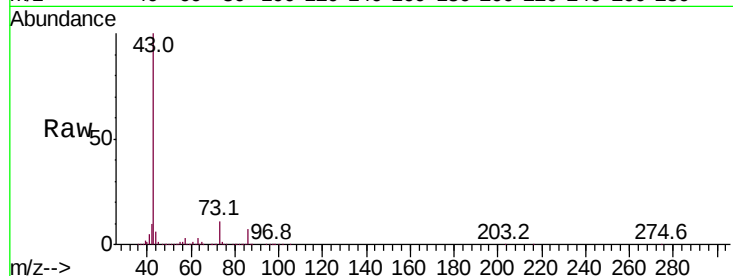
Ion Ratio Lower Upper

43 100

86 7.3 5.3 7.9

42 10.1 7.0 10.6

44 4.9 4.0 6.0

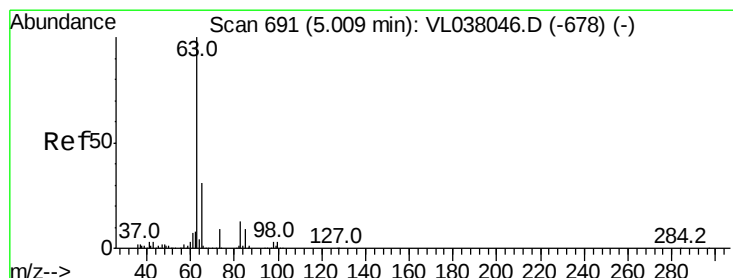
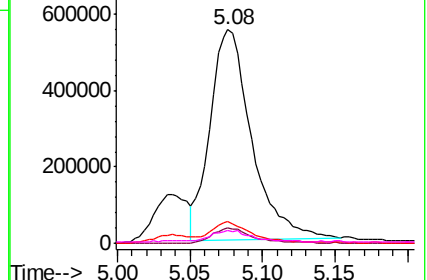
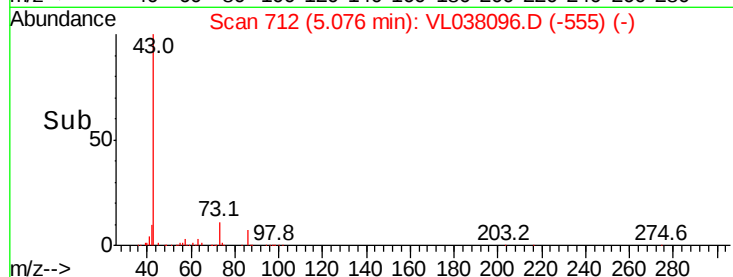


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.688 ppbv

RT: 5.02 min Scan# 693

Delta R.T. 0.01 min

Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

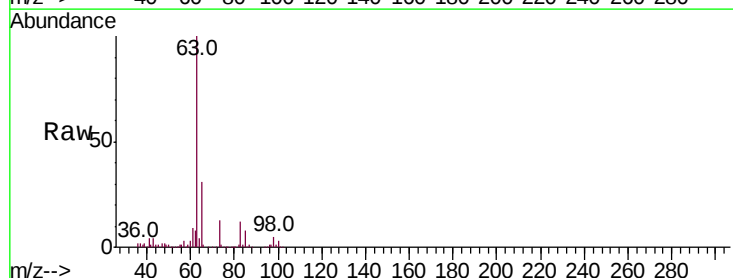
Tgt Ion: 63 Resp: 957537

Ion Ratio Lower Upper

63 100

98 4.4 1.8 5.4

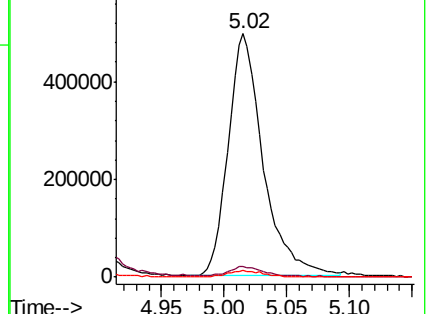
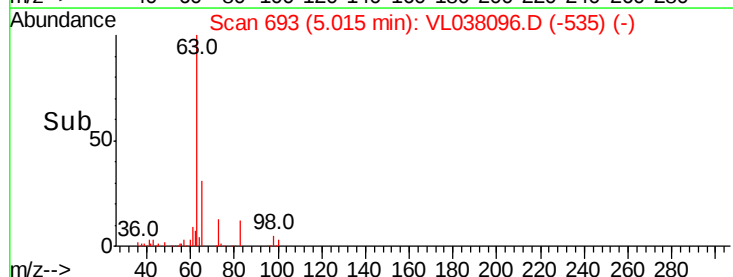
100 3.0 1.4 4.0

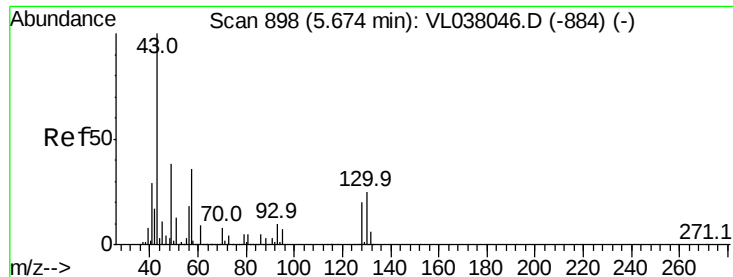


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

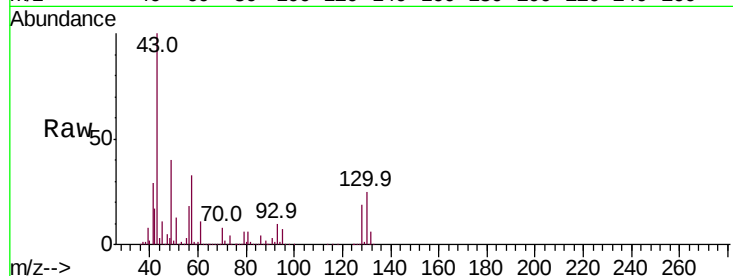
Ion 100.00 (99.70 to 100.70): VL0





#25  
Ethyl Acetate  
Concen: 8.984 ppbv  
RT: 5.68  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId : VL1123ABS01  
Acq: 23 Nov 2021 12:31

| Tot Ion: | 43    | Resp: | 2448212 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 45       | 9.8   | 7.9   | 11.9    |
| 61       | 9.5   | 7.8   | 11.6    |
| 70       | 6.9   | 5.8   | 8.8     |



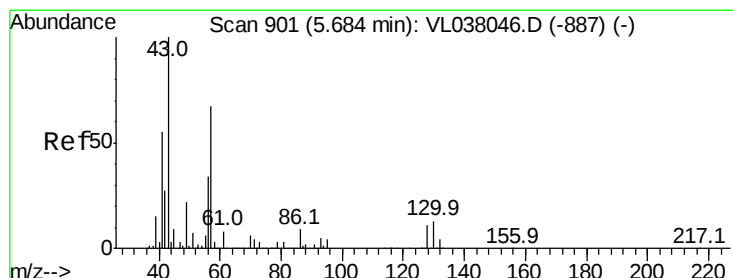
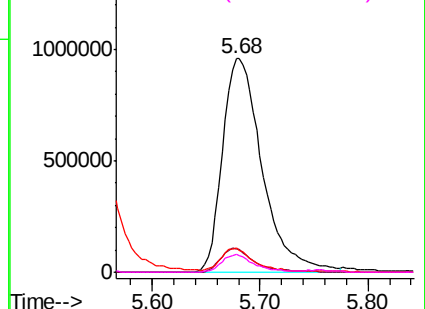
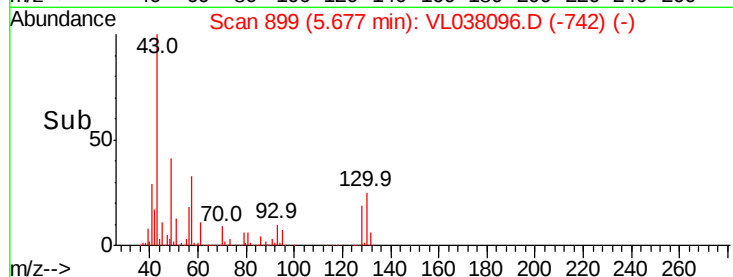
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

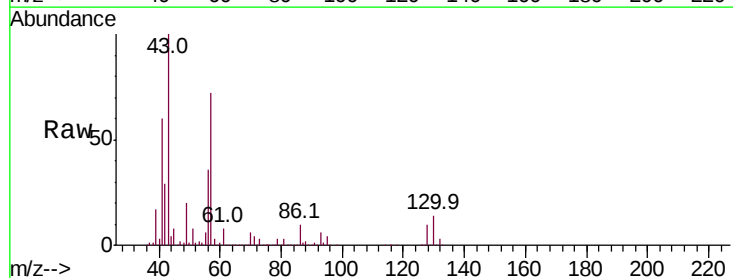
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 9.008 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T.: 0.01 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

| Tgt Ion: | 57    | Resp: | 1183172 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 57       | 100   |       |         |
| 41       | 87.3  | 71.4  | 107.2   |
| 43       | 209.8 | 174.6 | 261.8   |
| 56       | 52.1  | 43.2  | 64.8    |



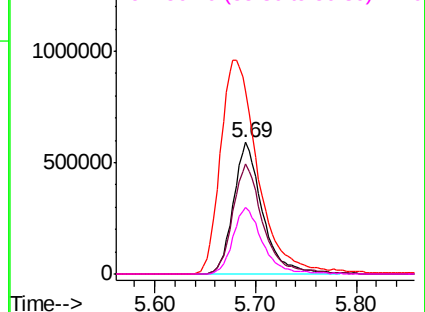
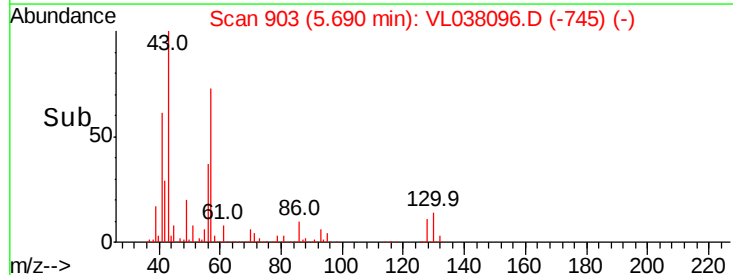
Abundance

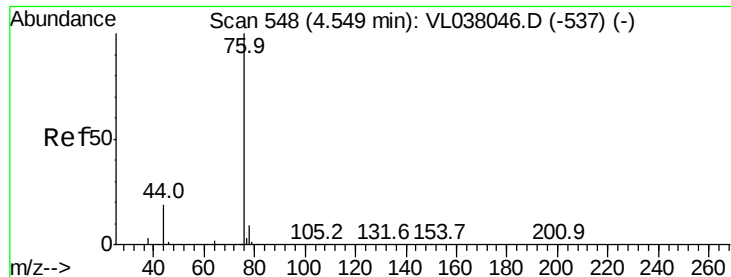
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.752 ppbv

RT: 4.56 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 23 Nov 2021 12:31 VL1123ABS01

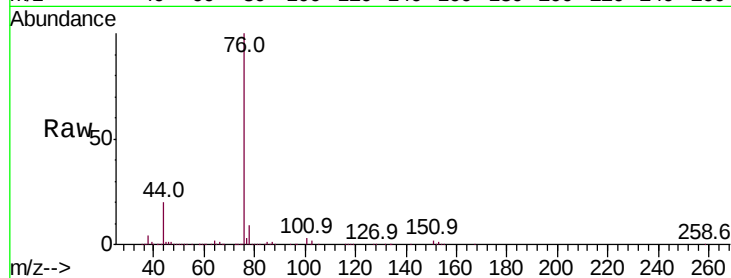
Tot Ion: 76 Resp: 1147355

Ion Ratio Lower Upper

76 100

44 19.5 14.9 22.3

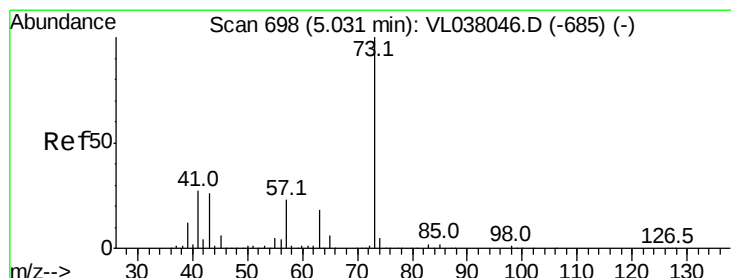
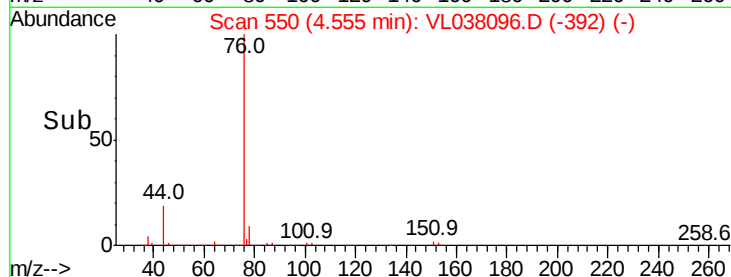
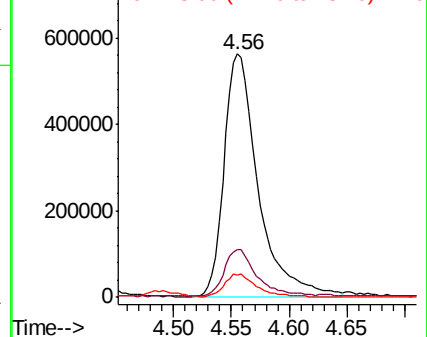
78 10.0 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.591 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.01 min

Lab File: VL038096.D

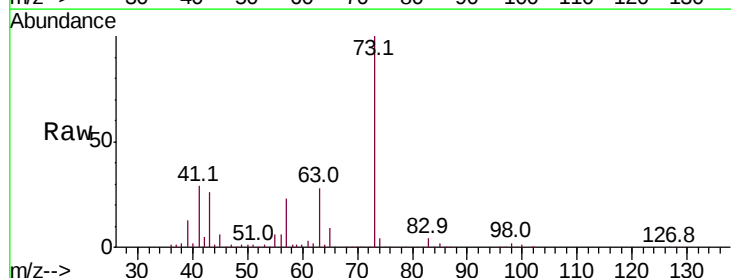
Acq: 23 Nov 2021 12:31

Tgt Ion: 73 Resp: 1070072

Ion Ratio Lower Upper

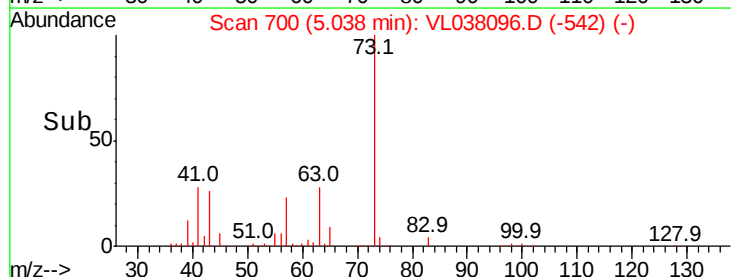
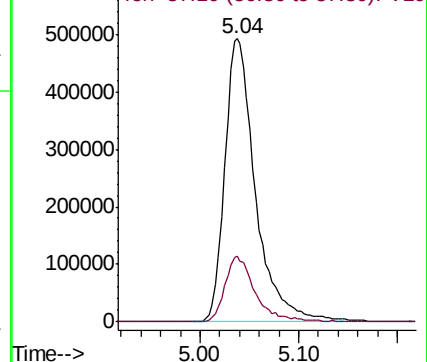
73 100

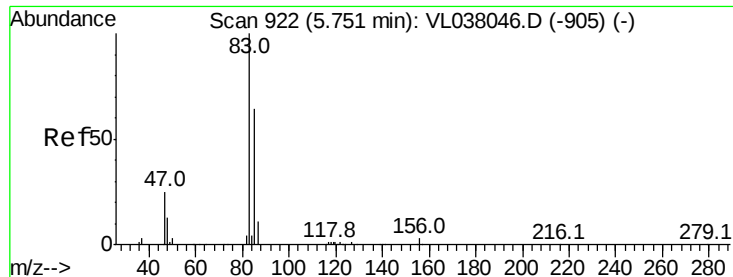
57 23.3 19.0 28.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 9.429 ppbv

RT: 5.75 Instrument: MSVOA\_1

Delta R.T. 0.01 min

Lab File: ClientSampleId: VL1123ABS01

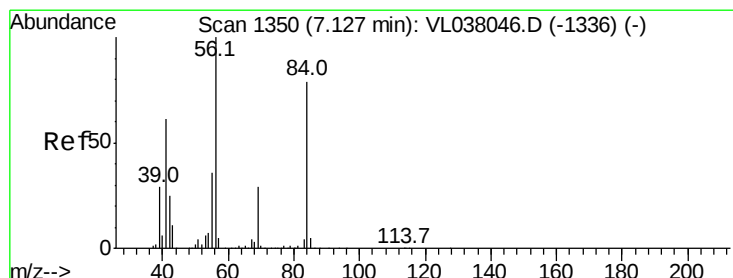
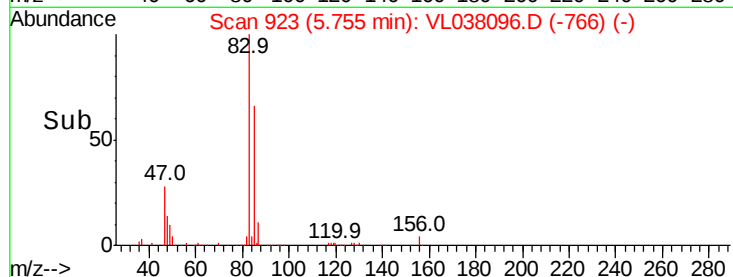
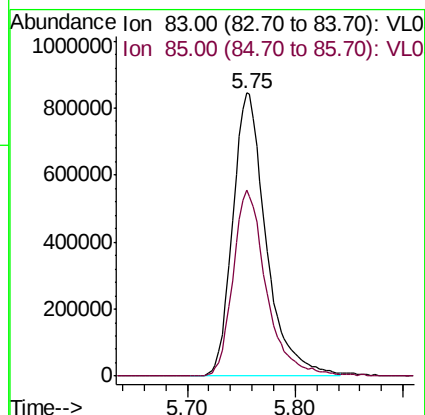
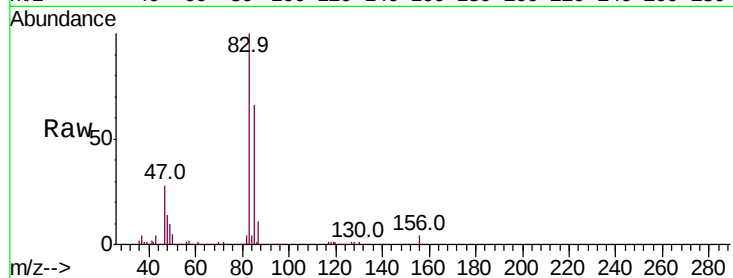
Acq: 23 Nov 2021 12:31

Tot Ion: 83 Resp: 1825249

Ion Ratio Lower Upper

83 100

85 65.4 51.0 76.6



#30

Cyclohexane

Concen: 8.787 ppbv

RT: 7.13 min Scan# 1352

Delta R.T. 0.01 min

Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

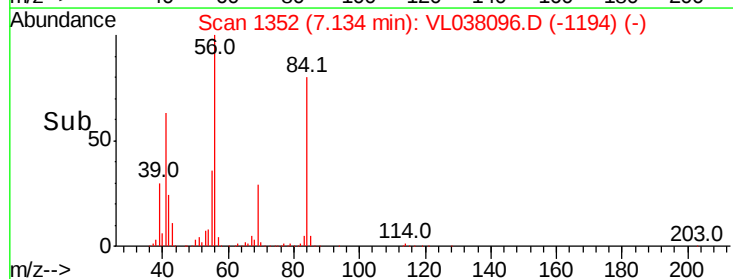
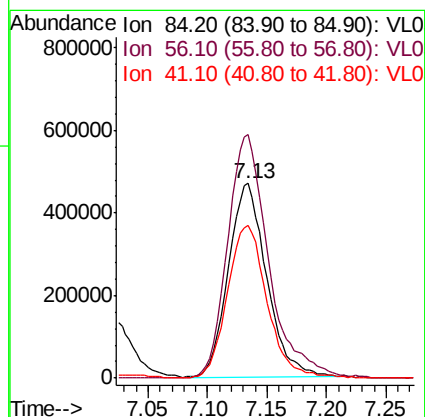
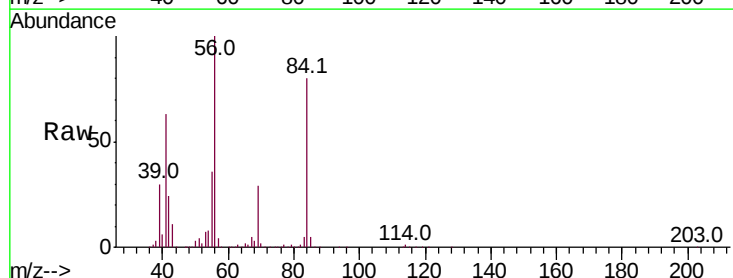
Tgt Ion: 84 Resp: 1047744

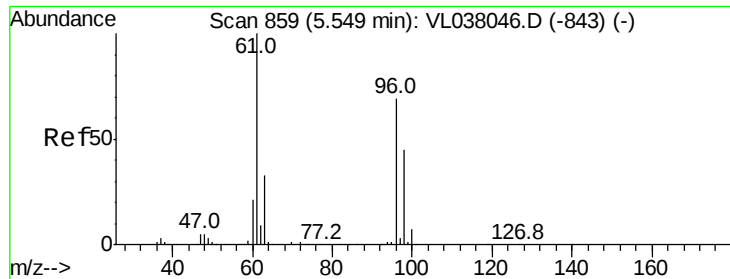
Ion Ratio Lower Upper

84 100

56 135.7 108.1 162.1

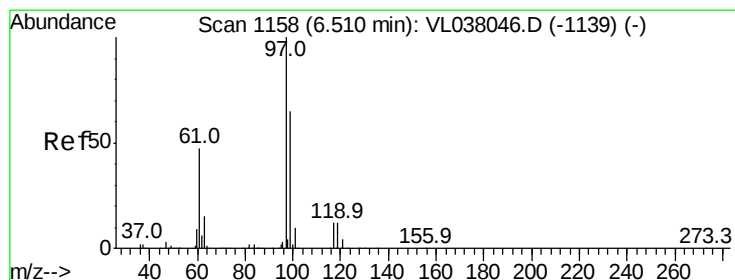
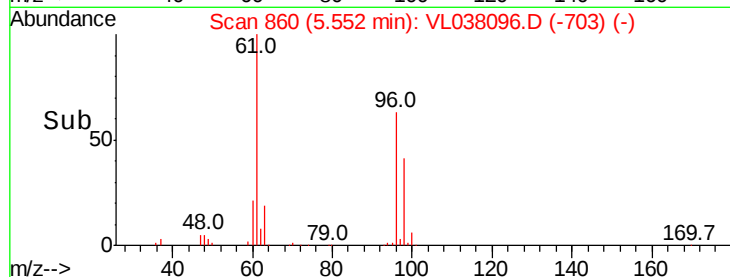
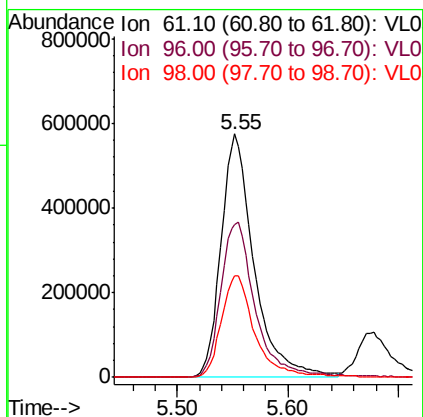
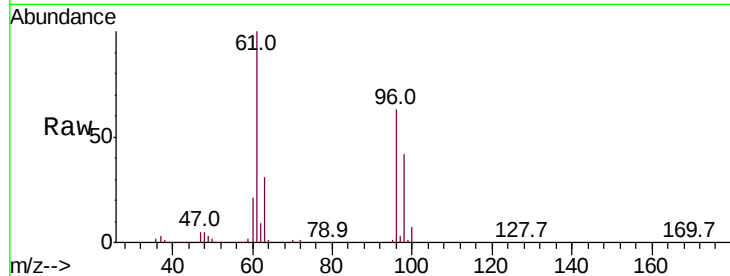
41 82.1 64.4 96.6





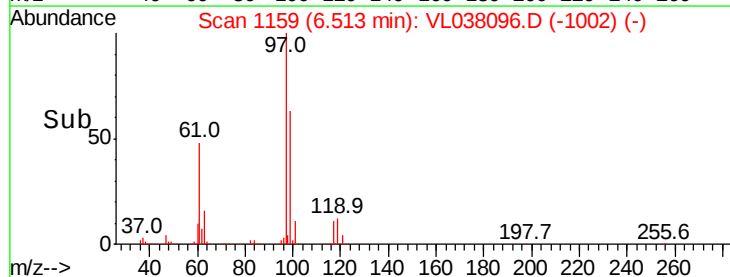
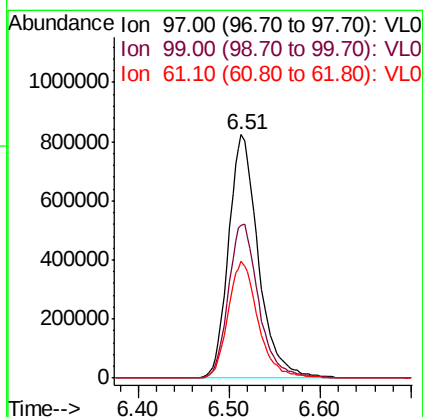
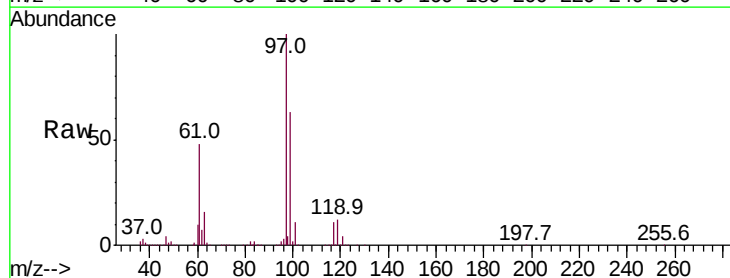
#31  
 cis-1,2-Dichloroethene  
 Concen: 9.489 ppbv  
 RT: 5.55  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VL1123ABS01  
 Acq: 23 Nov 2021 12:31

Tot Ion: 61 Resp: 1185509  
 Ion Ratio Lower Upper  
 61 100  
 96 62.9 55.4 83.2  
 98 41.5 35.7 53.5



#32  
 1,1,1-Trichloroethane  
 Concen: 9.511 ppbv  
 RT: 6.51 min Scan# 1159  
 Delta R.T. 0.00 min  
 Lab File: VL038096.D  
 Acq: 23 Nov 2021 12:31

Tgt Ion: 97 Resp: 1868420  
 Ion Ratio Lower Upper  
 97 100  
 99 64.8 52.2 78.4  
 61 48.9 37.7 56.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument: MSVOA\_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: VL1123ABS01

Acq: 23 Nov 2021 12:31

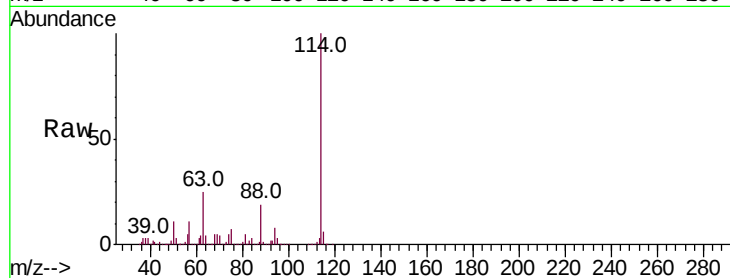
Tot Ion:114 Resp: 2736421

Ion Ratio Lower Upper

114 100

63 26.3 19.7 29.5

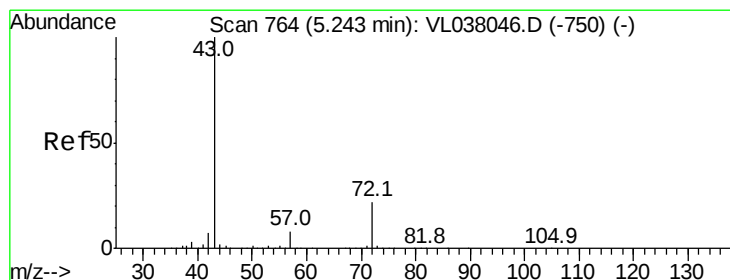
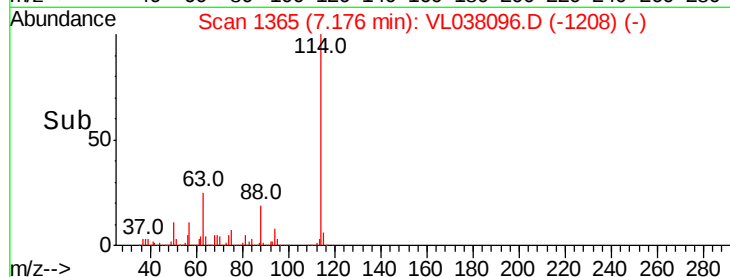
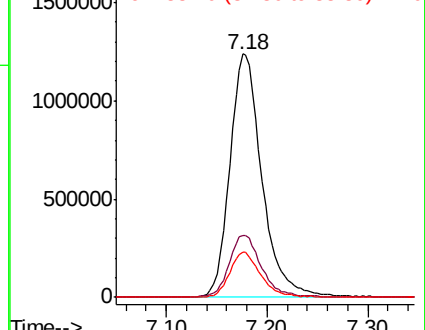
88 18.3 14.4 21.6



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: 7.533 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.00 min

Lab File: VL038096.D

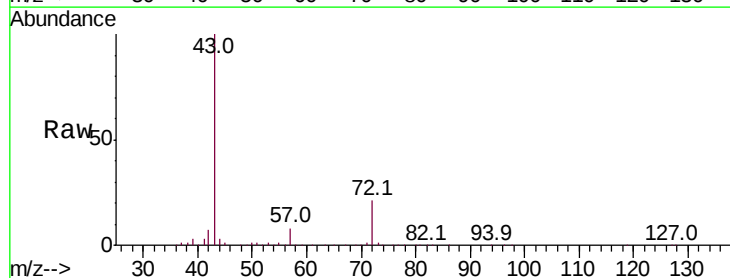
Acq: 23 Nov 2021 12:31

Tgt Ion: 43 Resp: 831205

Ion Ratio Lower Upper

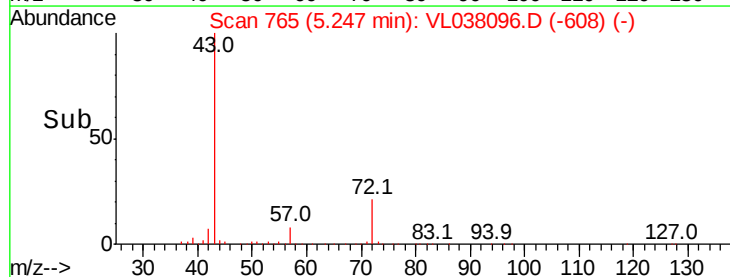
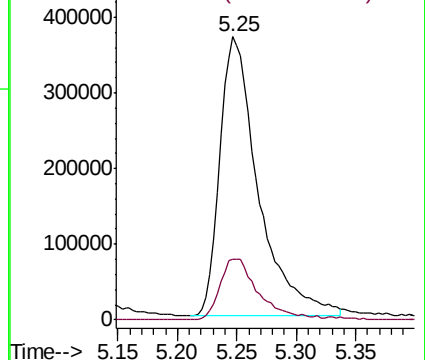
43 100

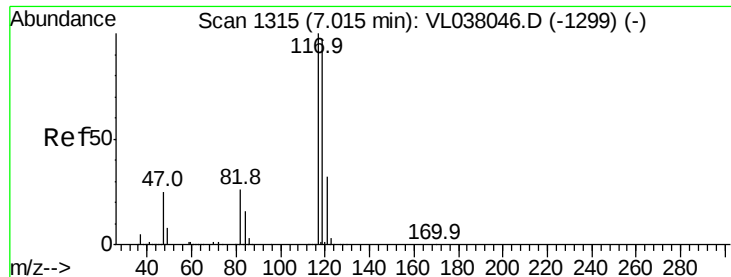
72 23.4 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

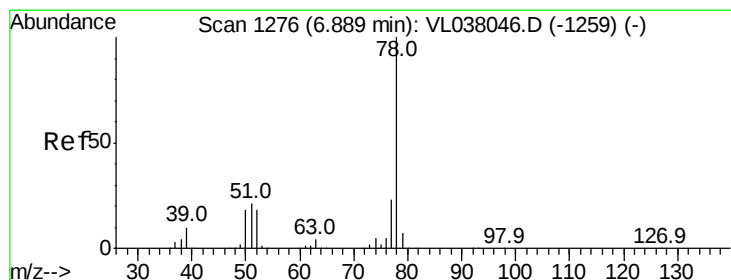
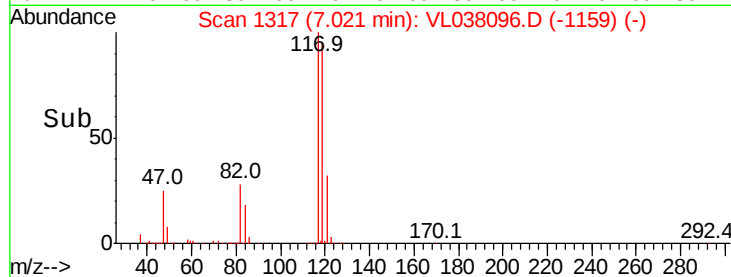
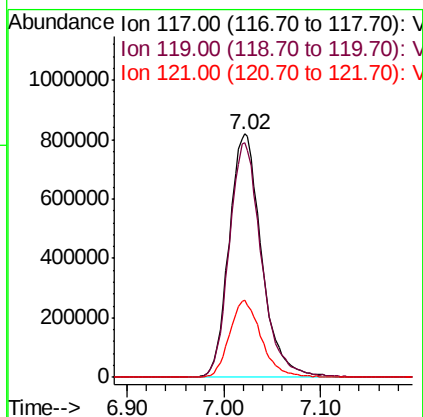
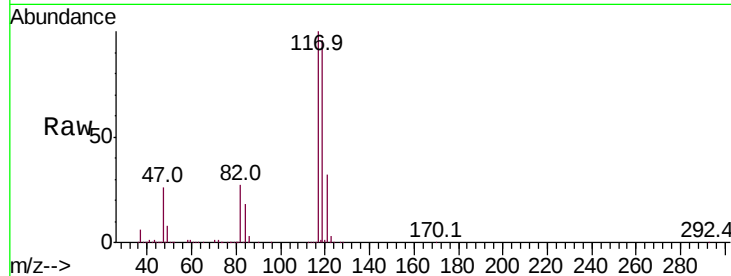
Ion 72.10 (71.80 to 72.80): VL0





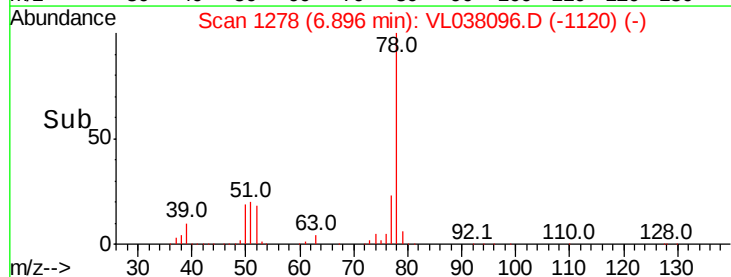
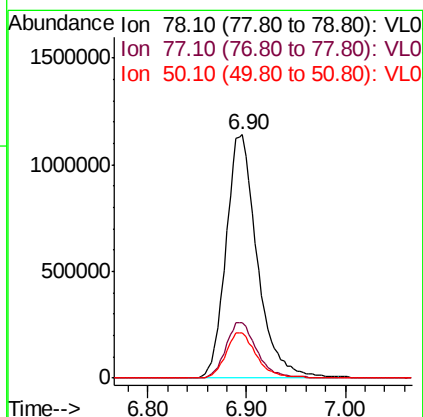
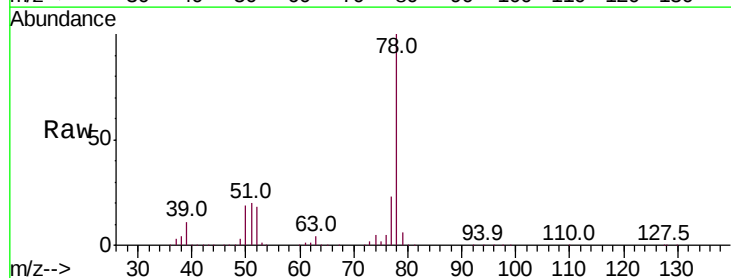
#35  
Carbon Tetrachloride  
Concen: 9.915 ppbv  
RT: 7.02  
Delta R.T. MSVOA\_1  
Lab File: ClientSampleId : VL1123ABS01  
Acq: 23 Nov 2021 12:31

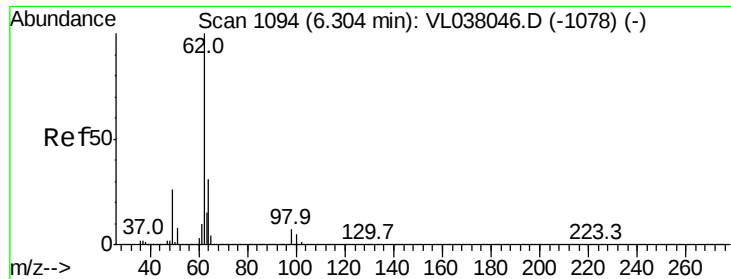
Tot Ion:117 Resp: 1906267  
Ion Ratio Lower Upper  
117 100  
119 96.3 77.7 116.5  
121 31.9 25.6 38.4



#36  
Benzene  
Concen: 9.259 ppbv  
RT: 6.90 min Scan# 1278  
Delta R.T. 0.01 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

Tgt Ion: 78 Resp: 2527477  
Ion Ratio Lower Upper  
78 100  
77 22.5 18.2 27.4  
50 18.7 14.7 22.1





#37

1,2-Dichloroethane

Concen: 10.596 ppbv

RT: 6.31 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

VL1123ABS01

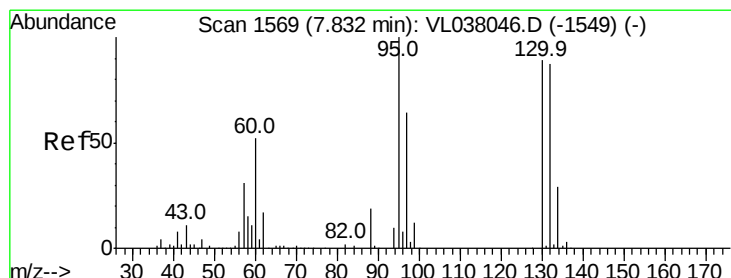
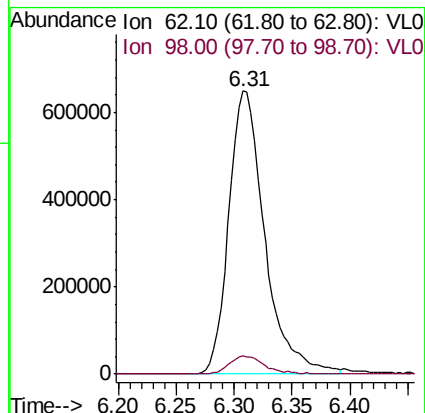
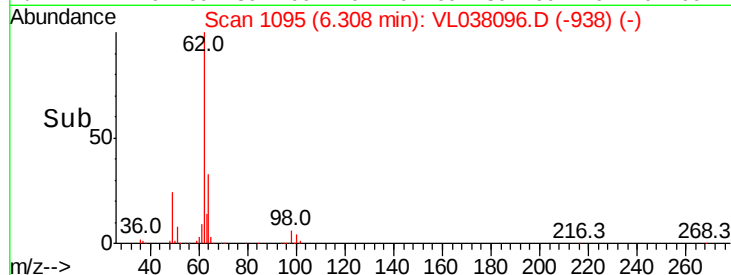
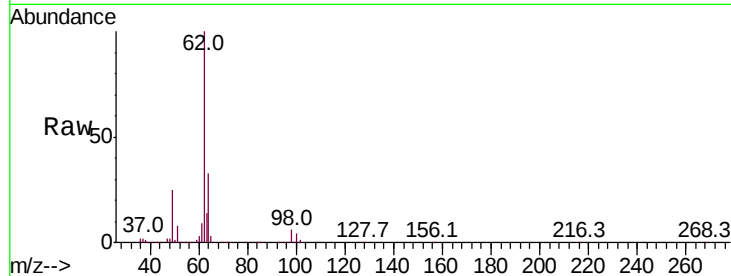
Acq: 23 Nov 2021 12:31

Tot Ion: 62 Resp: 1396939

Ion Ratio Lower Upper

62 100

98 6.6 5.8 8.6



#38

Trichloroethene

Concen: 8.771 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. 0.00 min

Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

Tgt Ion:130 Resp: 903045

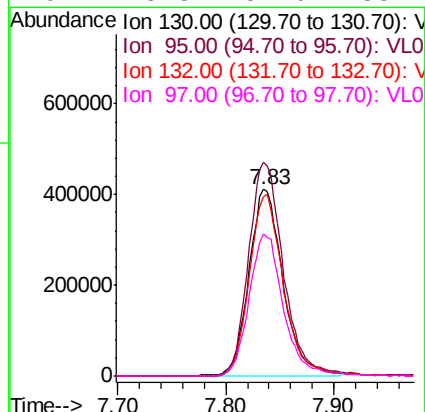
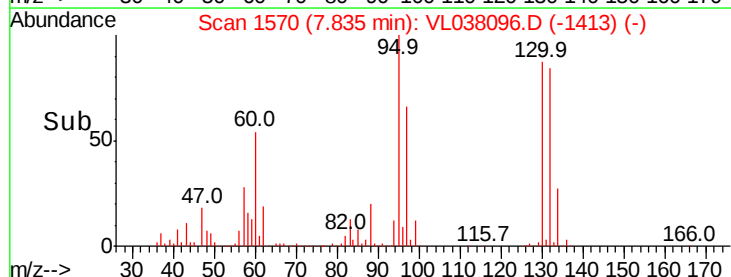
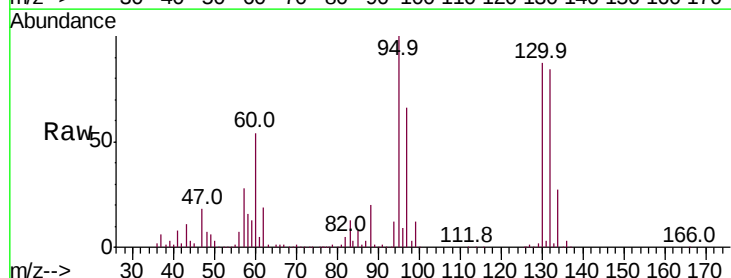
Ion Ratio Lower Upper

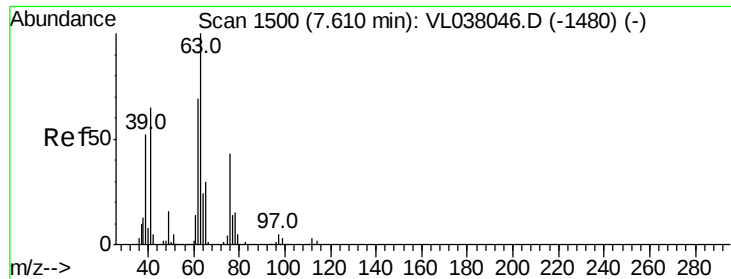
130 100

95 114.4 89.4 134.2

132 96.3 78.2 117.2

97 75.8 57.0 85.4





#39

1,2-Dichloropropane

Concen: 9.502 ppbv

RT: 7.61

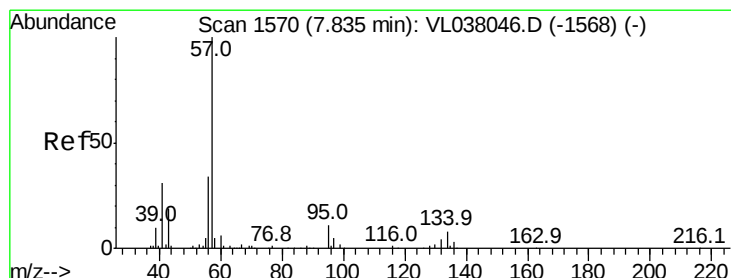
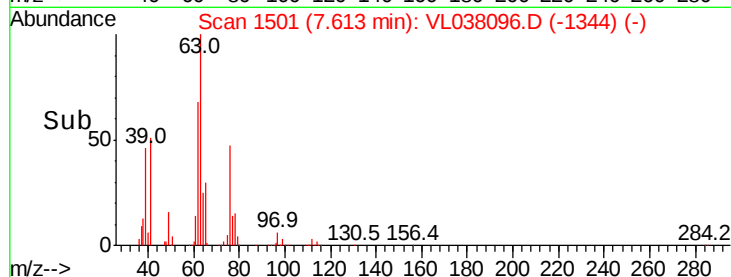
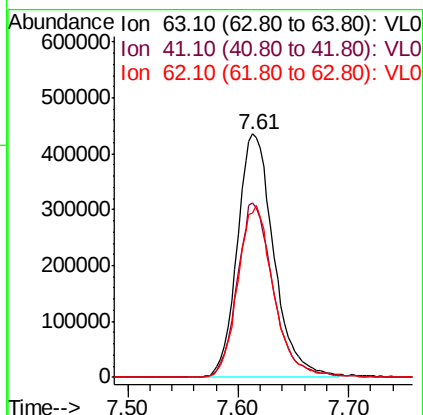
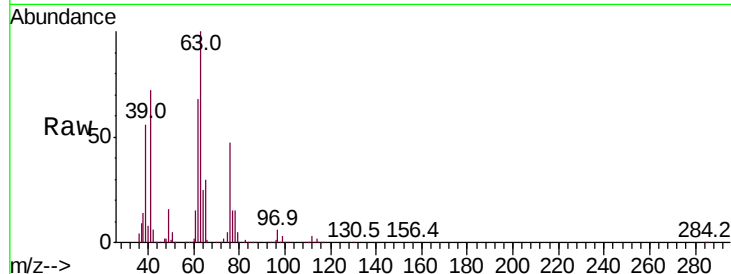
Delta R.T. MSVOA\_L

Lab File: ClientSampleId : VL1123ABS01

Acq: 23 Nov 2021 12:31

Tot Ion: 63 Resp: 994968

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 41  | 71.7  | 52.3  | 78.5  |
| 62  | 67.7  | 55.1  | 82.7  |



#40

1,4-Dioxane

Concen: 5.332 ppbv

RT: 7.83 min Scan# 1570

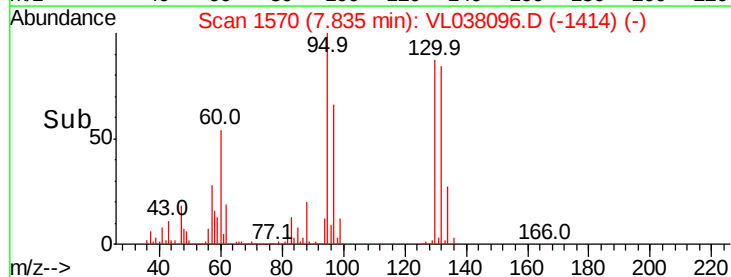
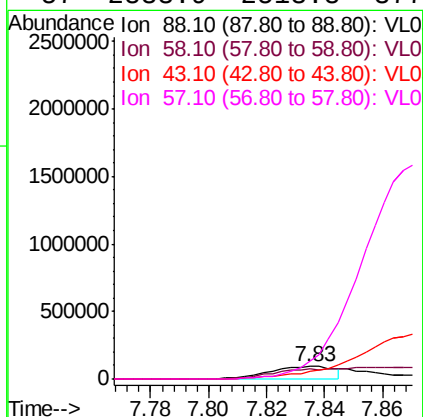
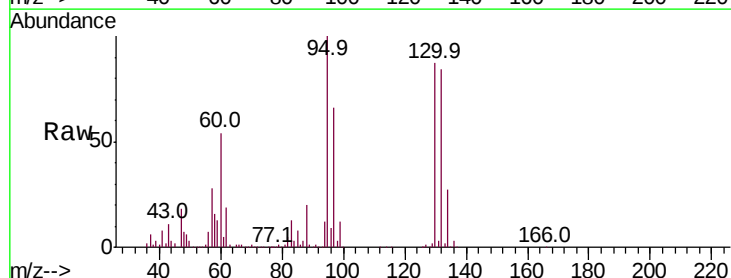
Delta R.T. 0.00 min

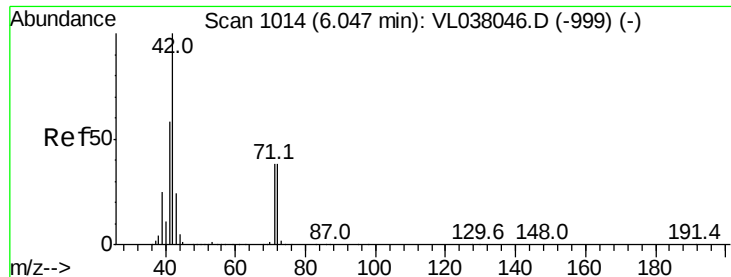
Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

Tgt Ion: 88 Resp: 145461

| Ion | Ratio  | Lower  | Upper  |
|-----|--------|--------|--------|
| 88  | 100    |        |        |
| 58  | 253.8  | 229.2  | 343.8  |
| 43  | 627.1  | 553.3  | 829.9  |
| 57  | 2833.9 | 2513.8 | 3770.8 |





#41

Tetrahydrofuran

Concen: 9.239 ppbv

RT: 6.05

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 12:31

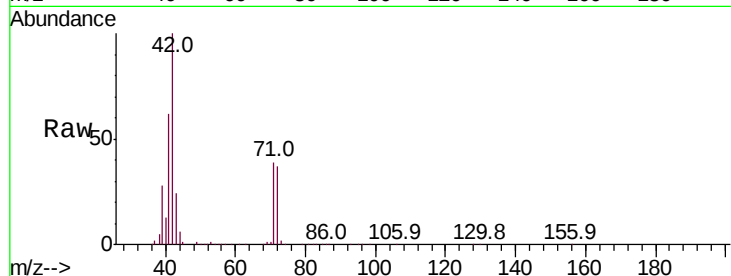
Tot Ion: 42 Resp: 632828

Ion Ratio Lower Upper

42 100

72 38.7 31.7 47.5

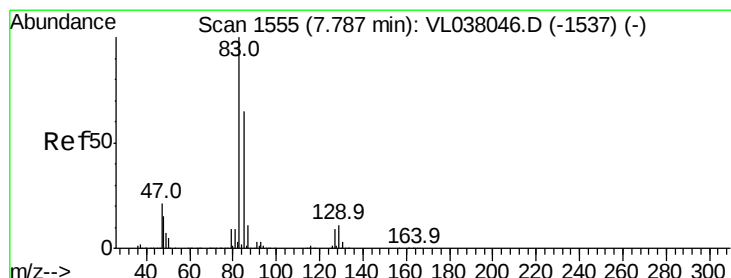
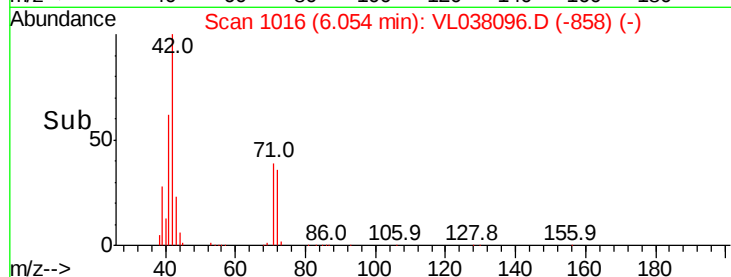
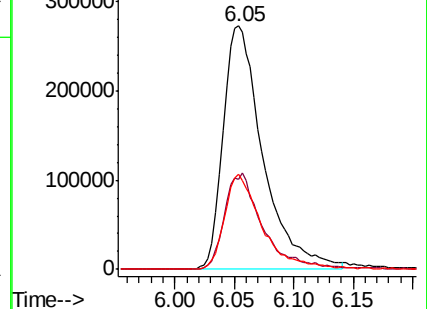
71 37.5 30.6 46.0



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: 10.094 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. 0.00 min

Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

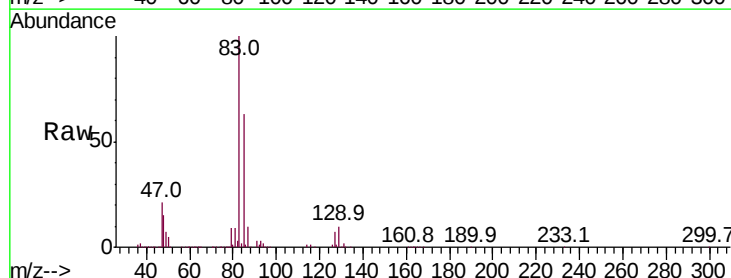
Tgt Ion: 83 Resp: 2023032

Ion Ratio Lower Upper

83 100

85 63.3 51.9 77.9

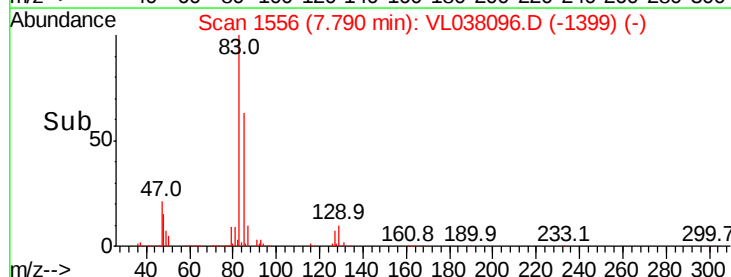
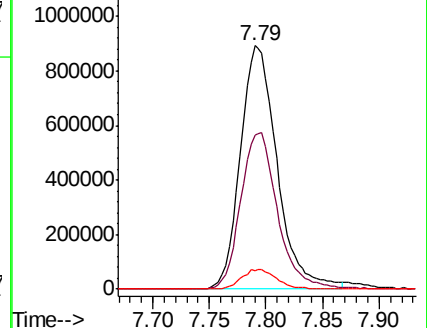
127 7.4 6.8 10.2

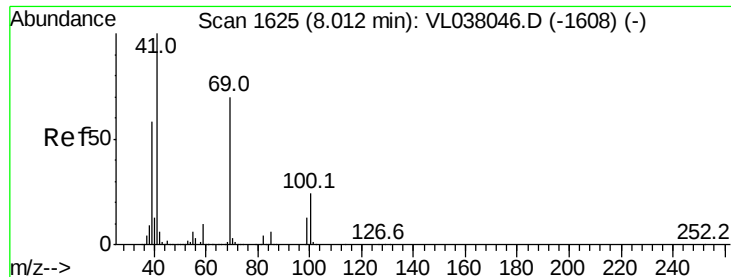


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

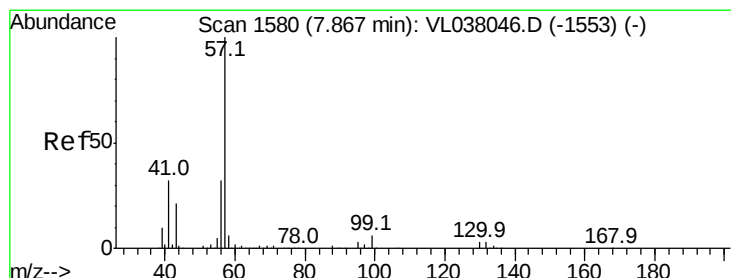
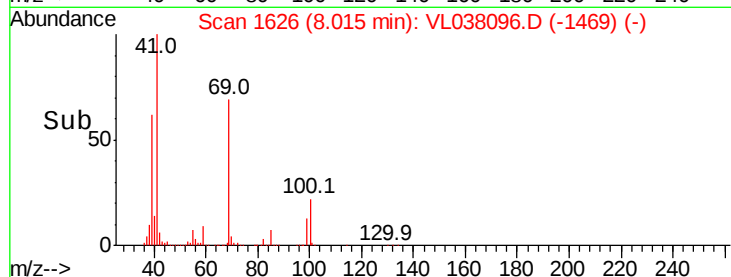
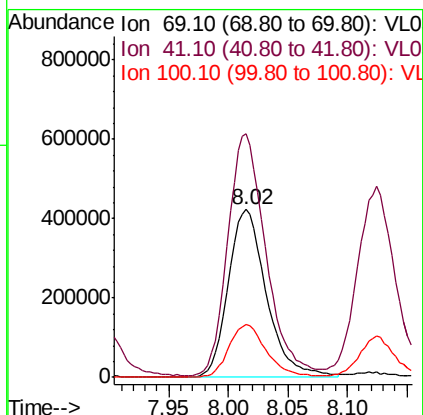
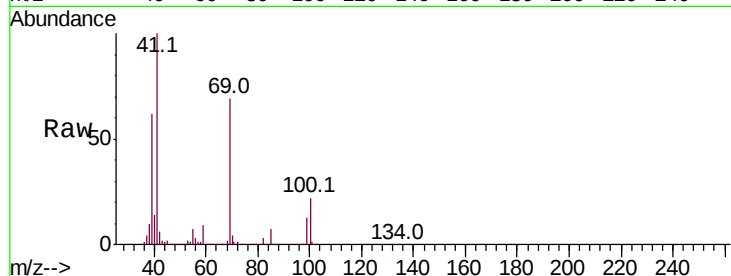
Ion 126.90 (126.60 to 127.60): VL0





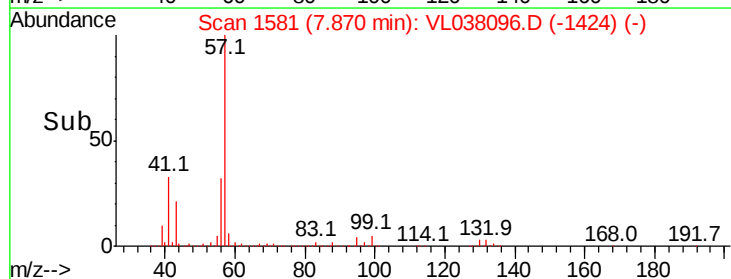
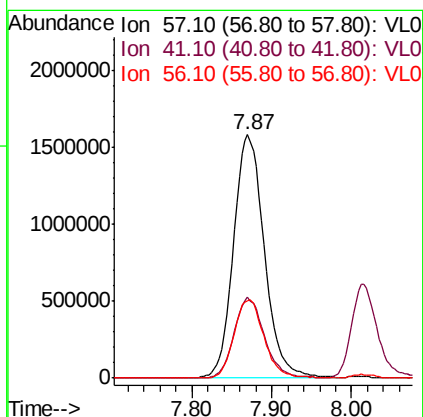
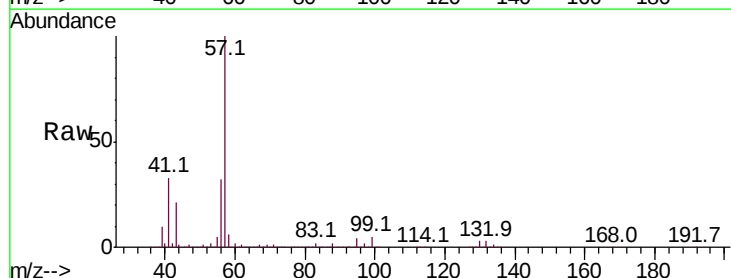
#43  
Methyl Methacrylate  
Concen: 10.047 ppbv  
RT: 8.02  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 23 Nov 2021 12:31

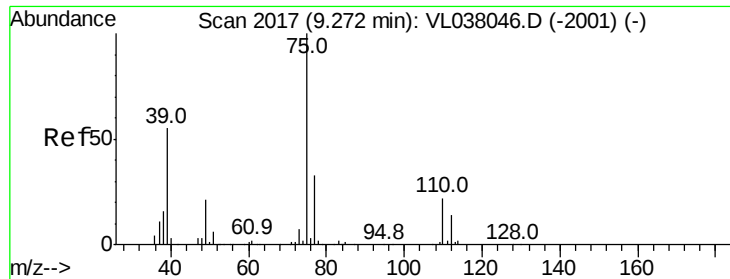
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 145.2 | 116.7 | 175.1 |
| 100     | 31.6  | 27.3  | 40.9  |



#44  
2,2,4-Trimethylpentane  
Concen: 9.023 ppbv  
RT: 7.87 min Scan# 1581  
Delta R.T.: 0.00 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

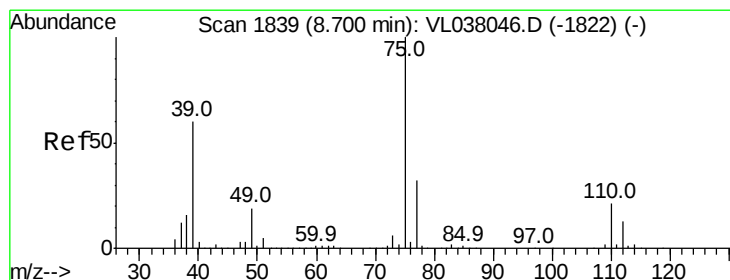
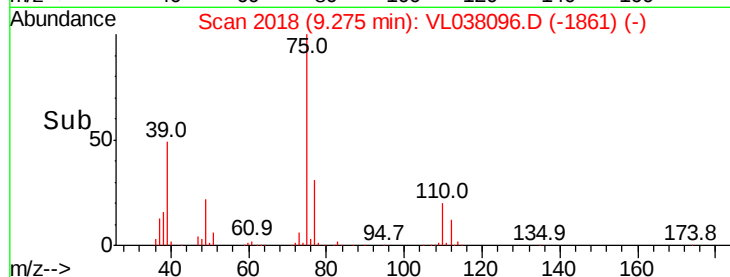
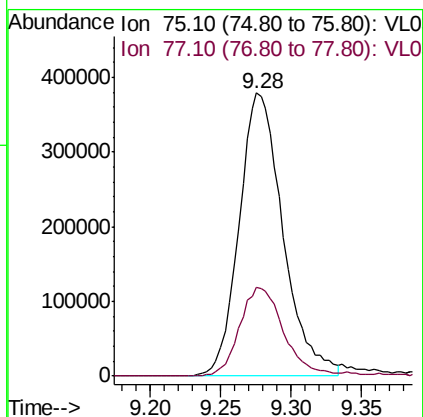
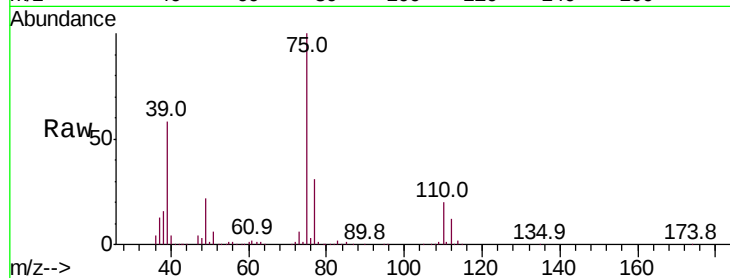
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 32.6  | 25.8  | 38.6  |
| 56      | 31.3  | 25.6  | 38.4  |





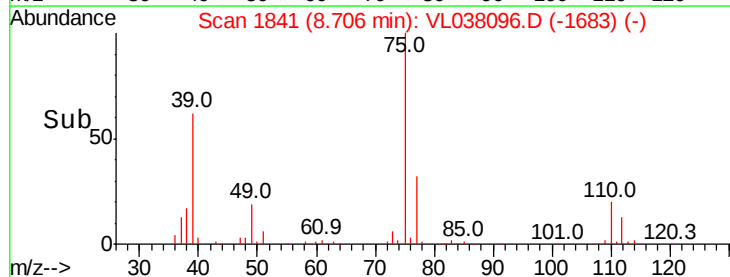
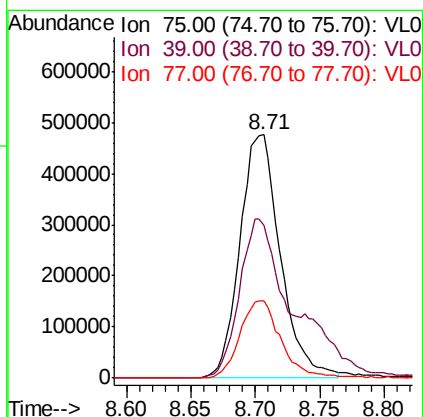
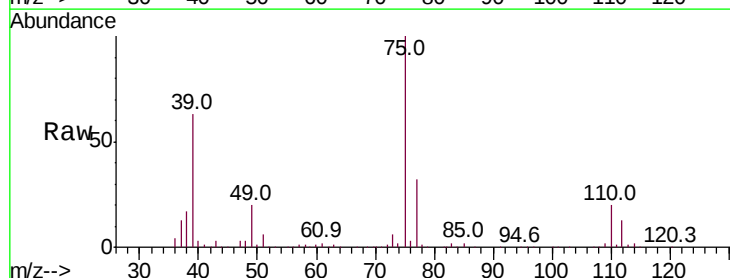
#45  
t-1,3-Dichloropropene  
Concen: 10.979 ppbv  
RT: 9.28  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId : VL1123ABS01  
Acq: 23 Nov 2021 12:31

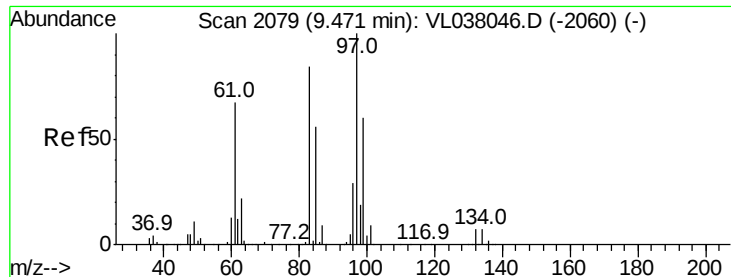
Tot Ion: 75 Resp: 822425  
Ion Ratio Lower Upper  
75 100  
77 31.2 26.2 39.4



#46  
cis-1,3-Dichloropropene  
Concen: 10.271 ppbv  
RT: 8.71 min Scan# 1841  
Delta R.T. 0.01 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

Tgt Ion: 75 Resp: 1040592  
Ion Ratio Lower Upper  
75 100  
39 62.5 47.8 71.8  
77 31.6 25.5 38.3





#47

1,1,2-Trichloroethane

Concen: 9.212 ppbv

RT: 9.47 Instrument:

Delta R.T. MSVOA\_1

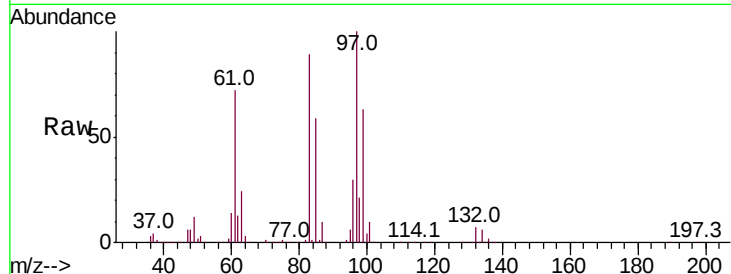
Lab File: ClientSampleId:

VL1123ABS01

Acq: 23 Nov 2021 12:31

Tot Ion: 97 Resp: 1010170

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 89.1  | 66.8  | 100.2 |
| 85  | 59.2  | 44.9  | 67.3  |
| 99  | 62.5  | 48.0  | 72.0  |

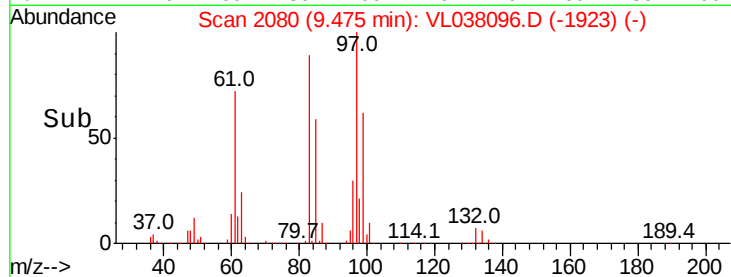
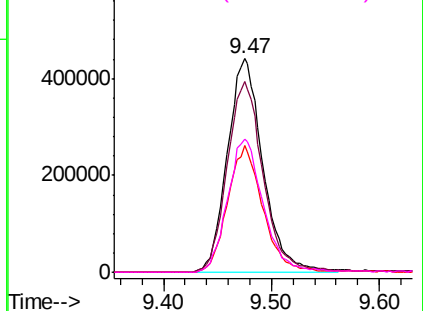


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 9.829 ppbv

RT: 10.30 min Scan# 2338

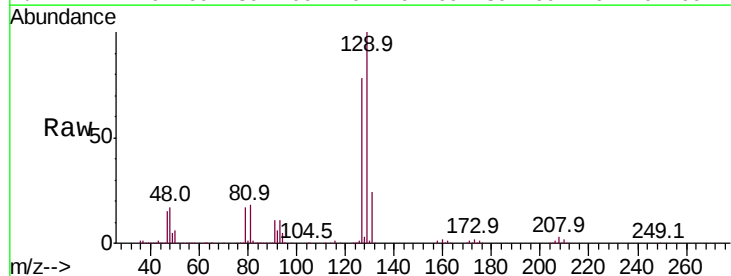
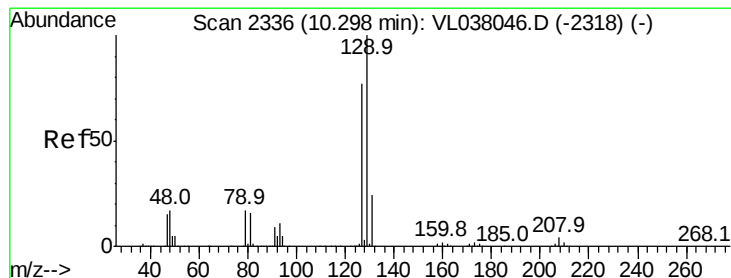
Delta R.T. 0.01 min

Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

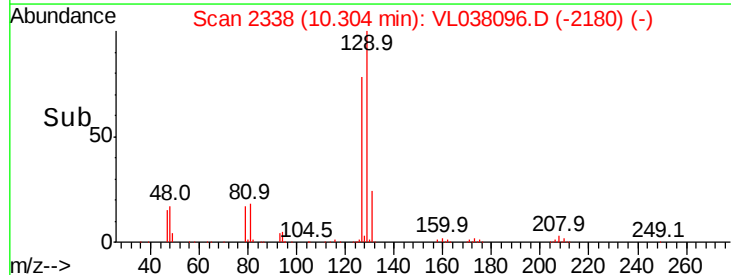
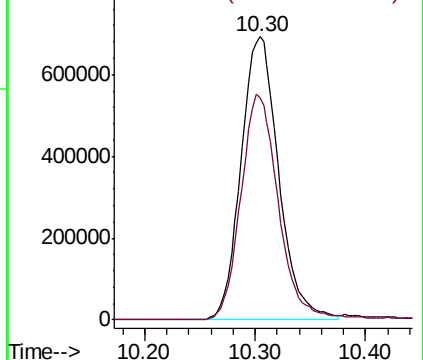
Tgt Ion: 129 Resp: 1641518

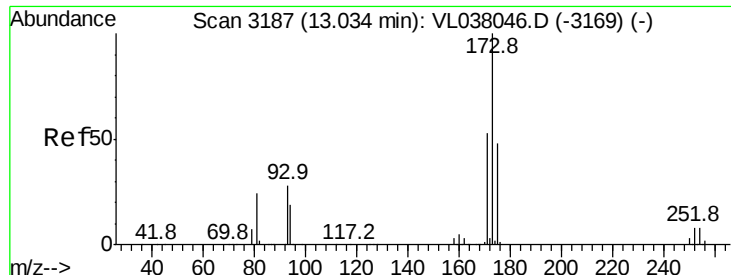
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 80.6  | 39.4  | 118.1 |



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 9.861 ppbv

RT: 13.04

Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

VL1123ABS01

Acq: 23 Nov 2021 12:31

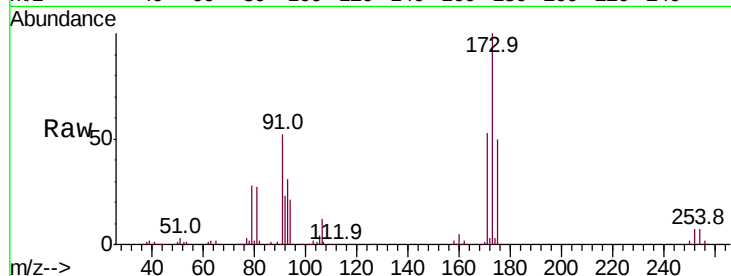
Tot Ion:173 Resp: 1178191

Ion Ratio Lower Upper

173 100

175 53.0 42.5 63.7

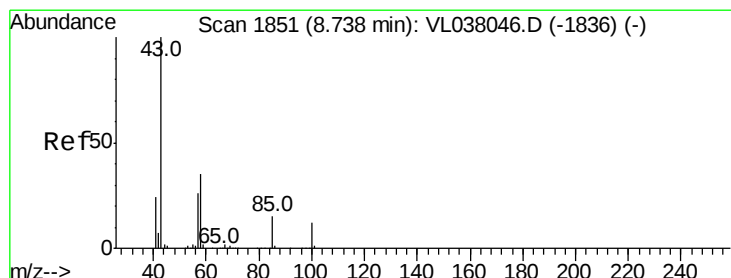
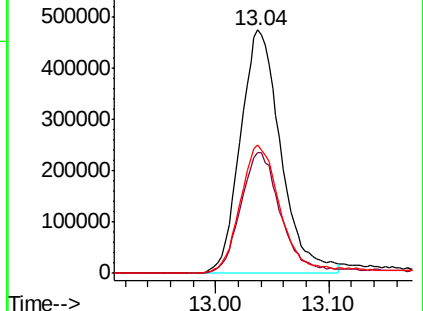
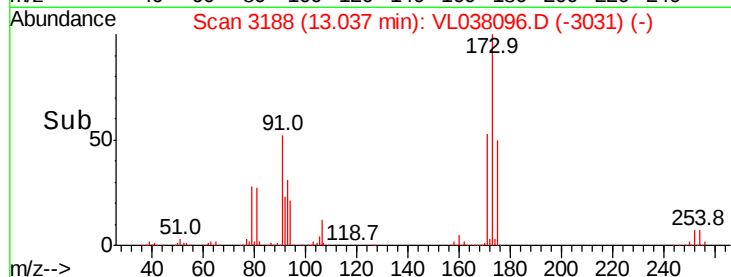
171 56.3 44.0 66.0



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: 9.702 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VL038096.D

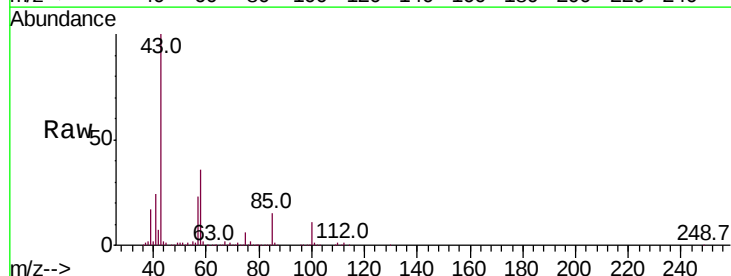
Acq: 23 Nov 2021 12:31

Tgt Ion: 43 Resp: 1625750

Ion Ratio Lower Upper

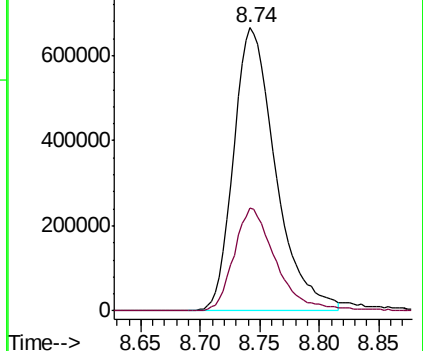
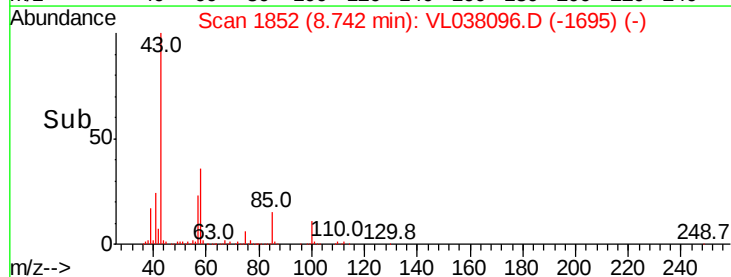
43 100

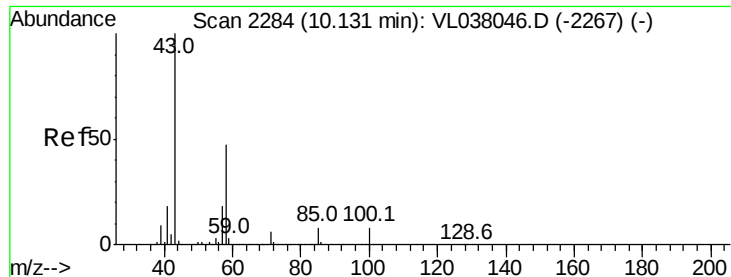
58 37.0 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.575 ppbv

RT: 10.14

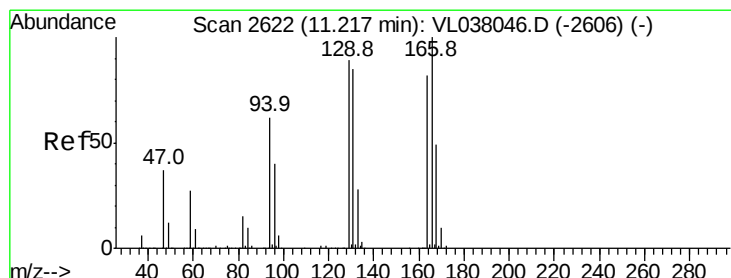
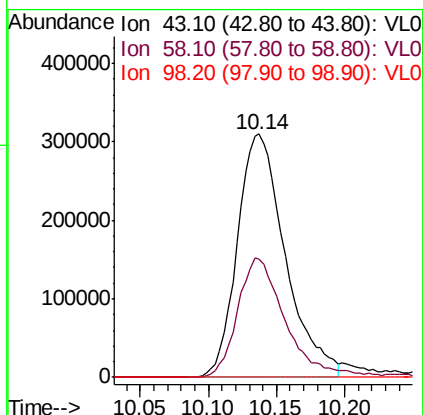
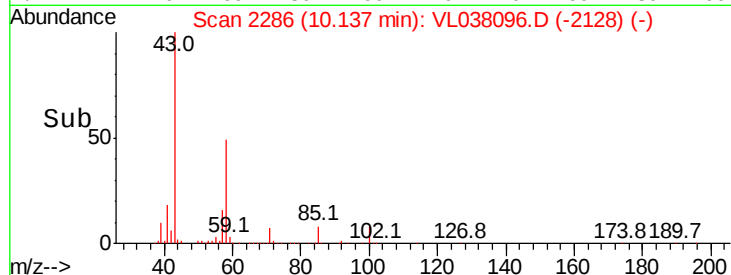
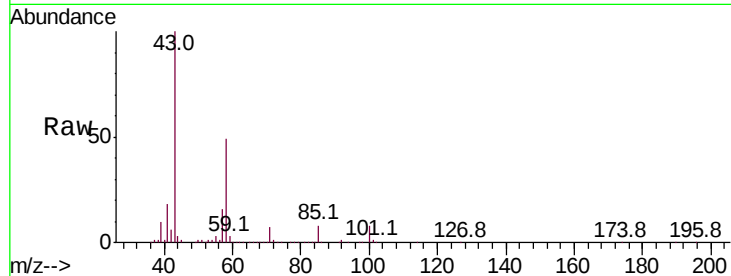
Delta R.T. MSVOA\_L

Lab File: ClientSampleId : VL1123ABS01

Acq: 23 Nov 2021 12:31

Tot Ion: 43 Resp: 754900

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 50.7  | 41.1  | 61.7  |
| 98  | 0.2   | 0.1   | 0.1#  |



#52

Tetrachloroethene

Concen: 8.181 ppbv

RT: 11.22 min Scan# 2623

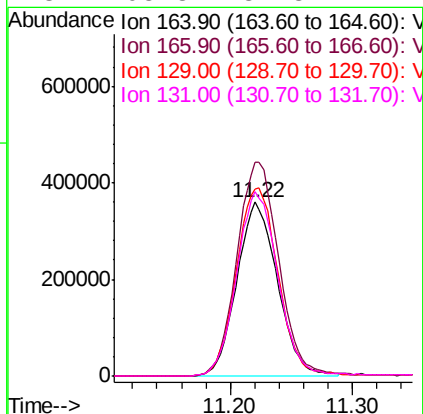
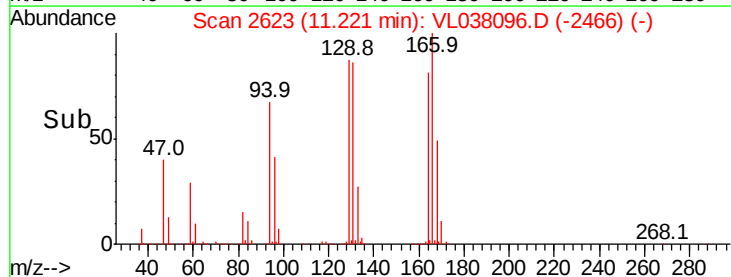
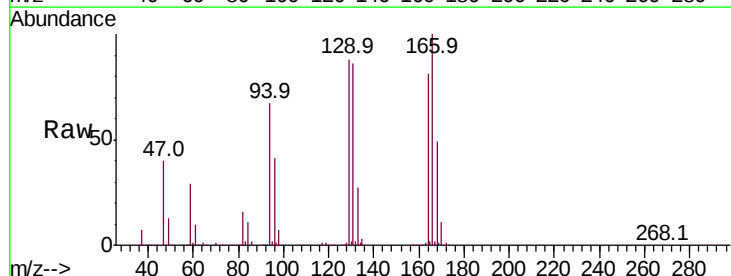
Delta R.T. 0.00 min

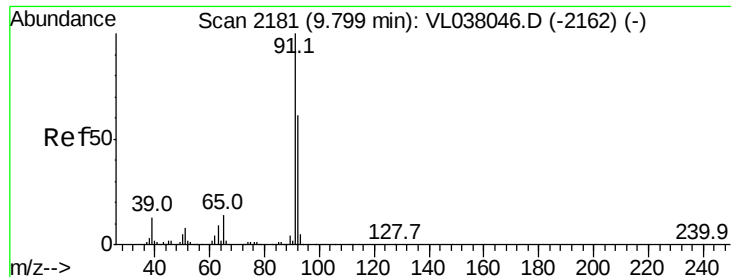
Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

Tgt Ion: 164 Resp: 826280

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 122.7 | 97.2  | 145.8 |
| 129 | 107.4 | 86.9  | 130.3 |
| 131 | 105.8 | 82.8  | 124.2 |





#53

Toluene

Concen: 9.084 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

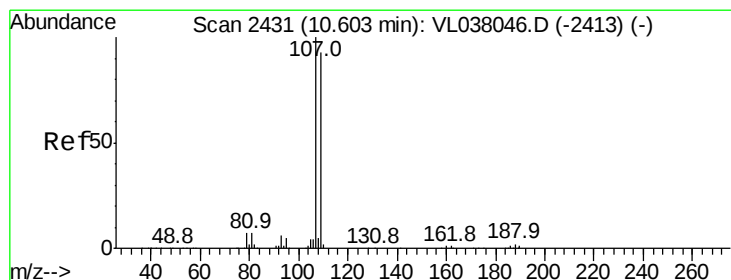
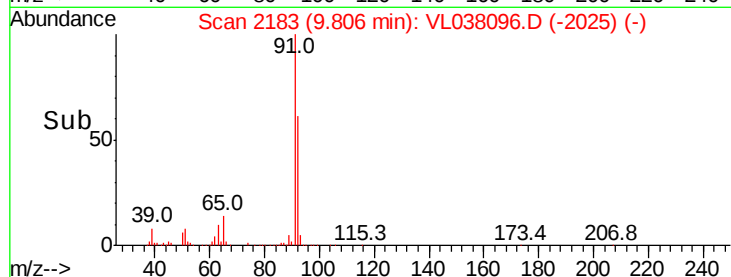
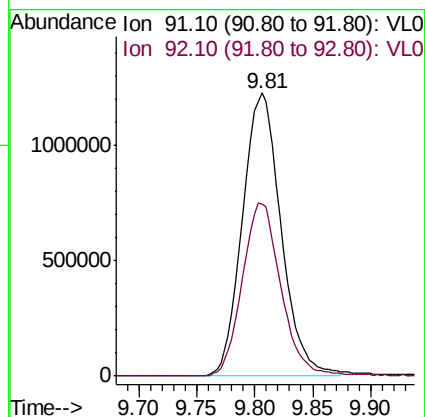
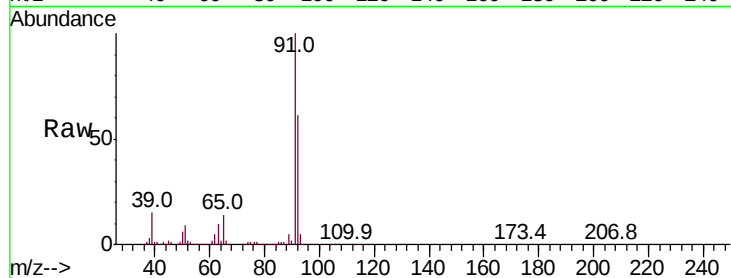
Acq: 23 Nov 2021 12:31 VL1123ABS01

Tot Ion: 91 Resp: 2853093

Ion Ratio Lower Upper

91 100

92 61.7 49.7 74.5



#54

1,2-Dibromoethane

Concen: 9.394 ppbv

RT: 10.61 min Scan# 2433

Delta R.T. 0.01 min

Lab File: VL038096.D

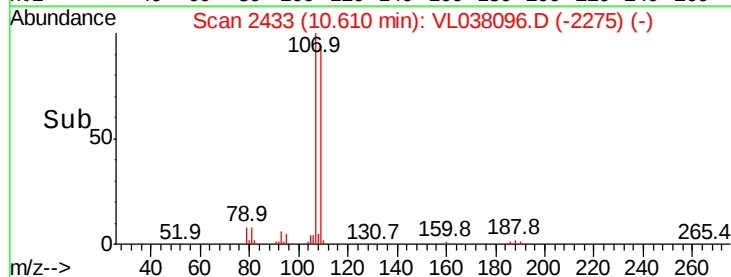
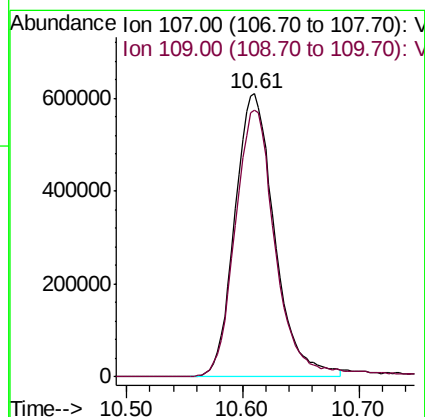
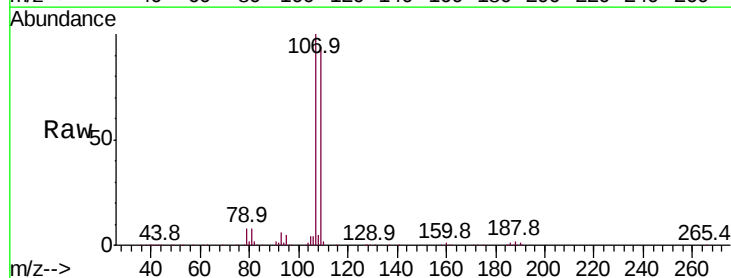
Acq: 23 Nov 2021 12:31

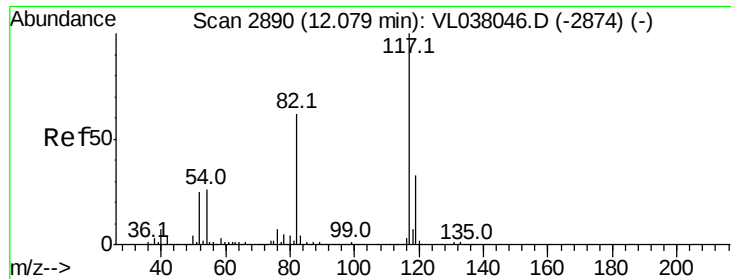
Tgt Ion: 107 Resp: 1455113

Ion Ratio Lower Upper

107 100

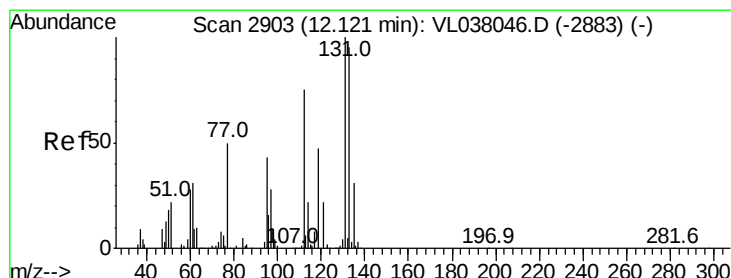
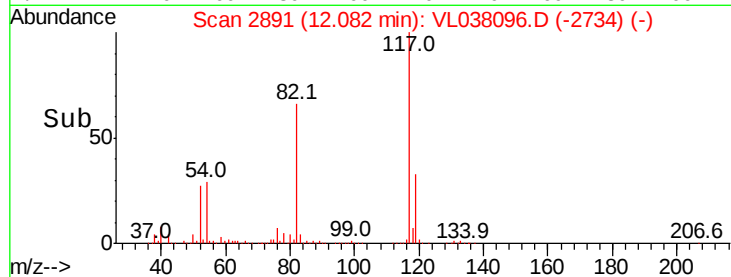
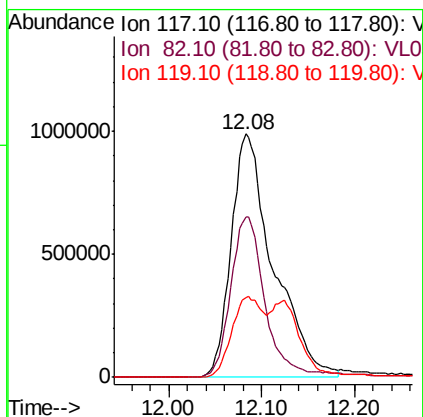
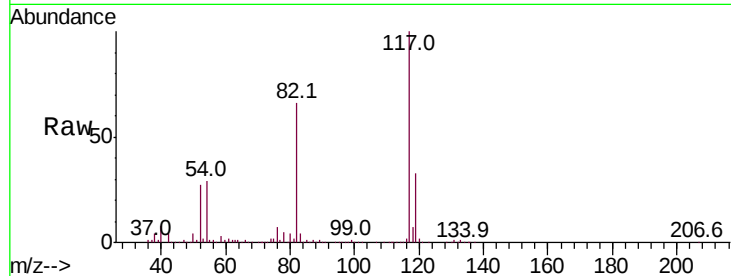
109 94.2 74.6 111.8





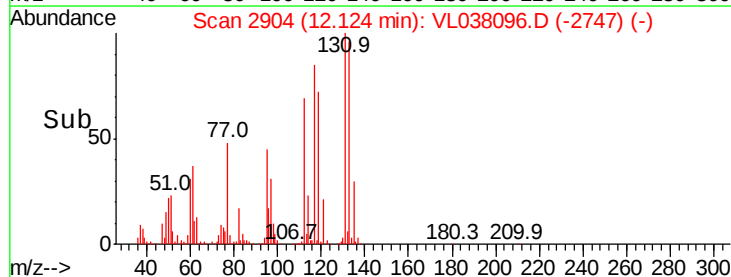
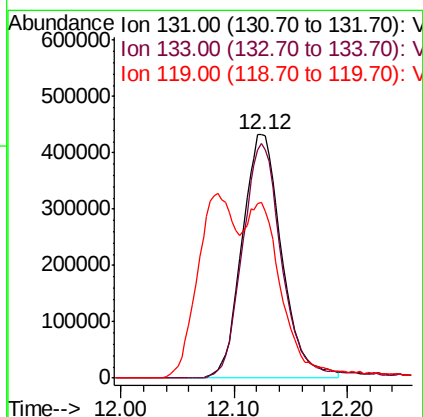
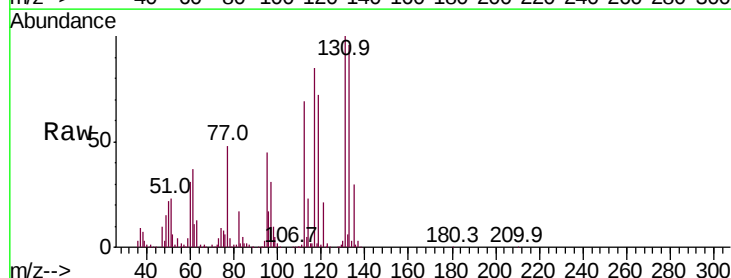
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.08 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId : VL1123ABS01  
Acq: 23 Nov 2021 12:31

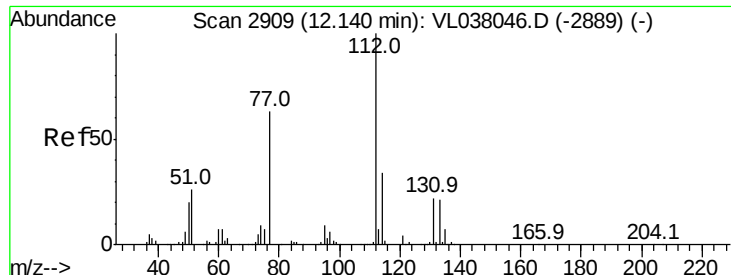
Tot Ion:117 Resp: 3116649  
Ion Ratio Lower Upper  
117 100  
82 56.1 52.8 79.2  
119 24.7 26.8 40.2#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.451 ppbv  
RT: 12.12 min Scan# 2904  
Delta R.T.: 0.00 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

Tgt Ion:131 Resp: 1054258  
Ion Ratio Lower Upper  
131 100  
133 99.5 78.8 118.2  
119 71.8 56.3 84.5





#57

Chlorobenzene

Concen: 7.147 ppbv

RT: 12.14 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 23 Nov 2021 12:31

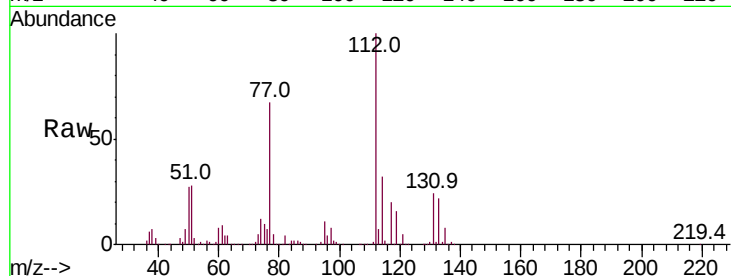
Tot Ion: 112 Resp: 1996525

Ion Ratio Lower Upper

112 100

77 65.7 50.3 75.5

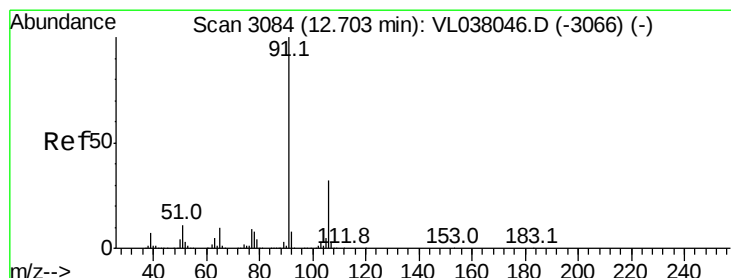
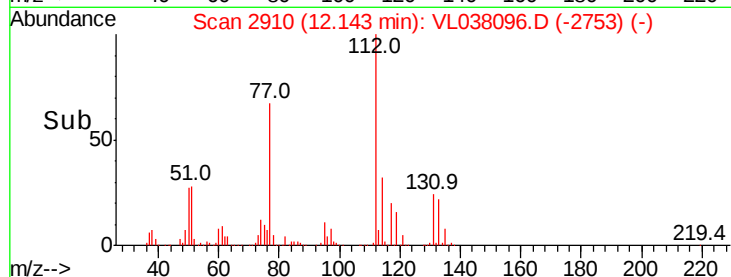
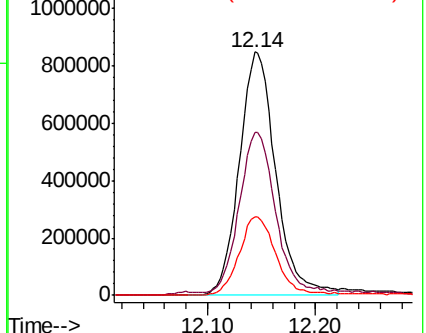
114 32.3 30.7 37.5



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: 7.193 ppbv

RT: 12.71 min Scan# 3086

Delta R.T. 0.01 min

Lab File: VL038096.D

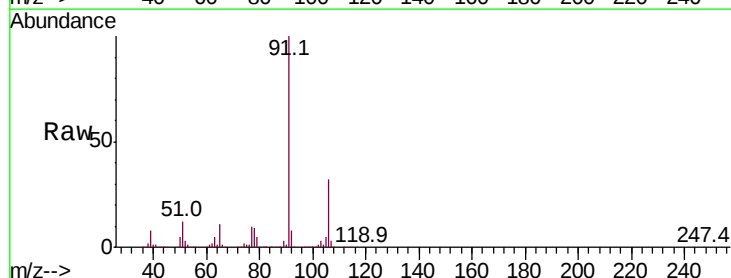
Acq: 23 Nov 2021 12:31

Tgt Ion: 91 Resp: 3705509

Ion Ratio Lower Upper

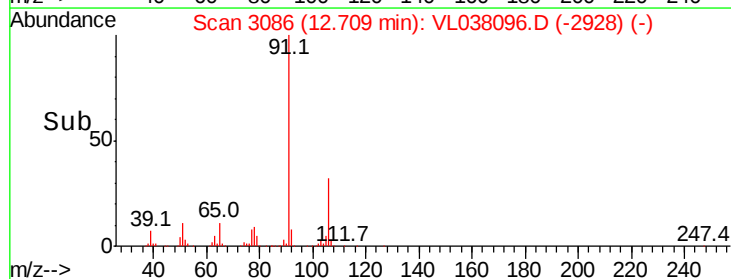
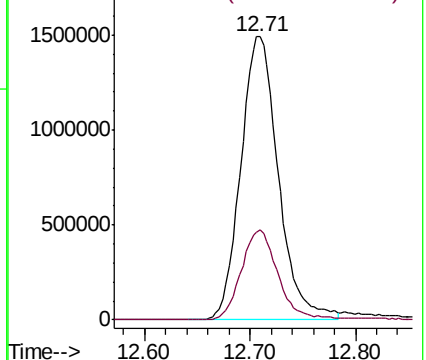
91 100

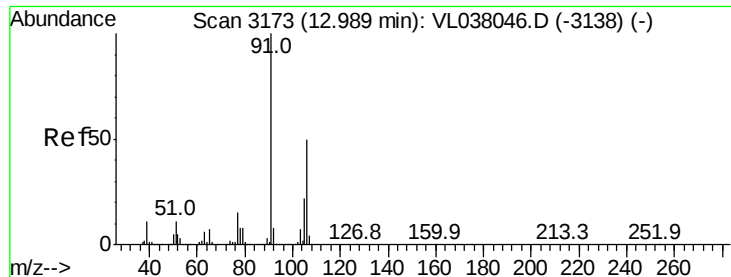
106 31.8 25.8 38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 6.661 ppbv

RT: 13.00

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

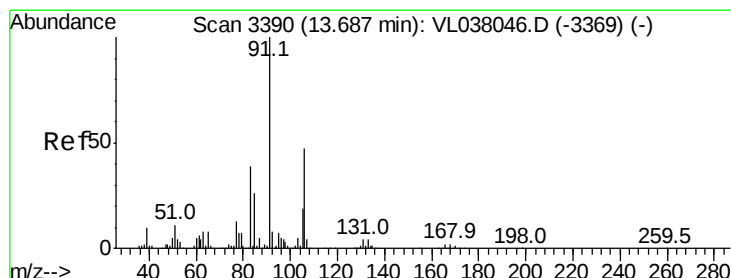
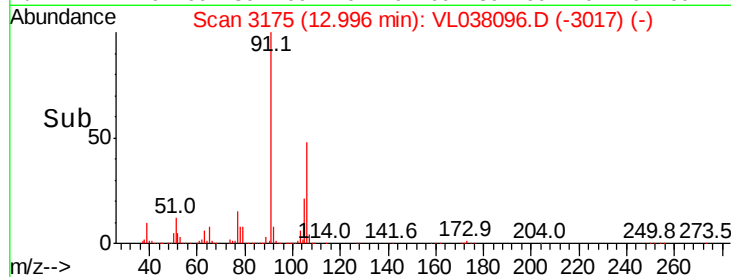
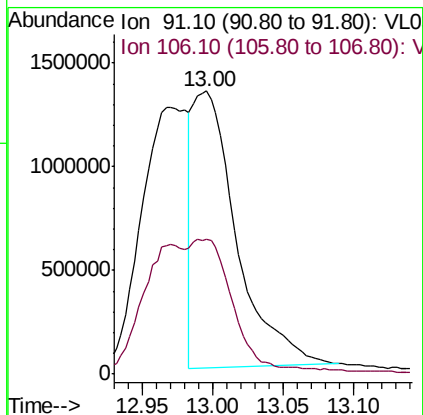
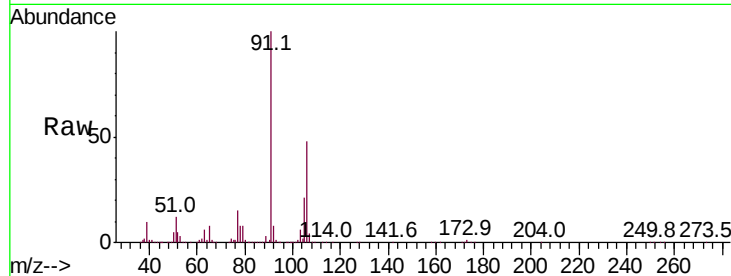
Acq: 23 Nov 2021 12:31

Tot Ion: 91 Resp: 2888494

Ion Ratio Lower Upper

91 100

106 97.4 38.1 57.1#



#60

o-Xylene

Concen: 7.151 ppbv

RT: 13.69 min Scan# 3392

Delta R.T. 0.01 min

Lab File: VL038096.D

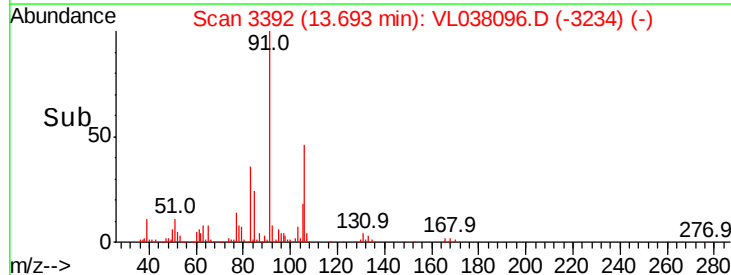
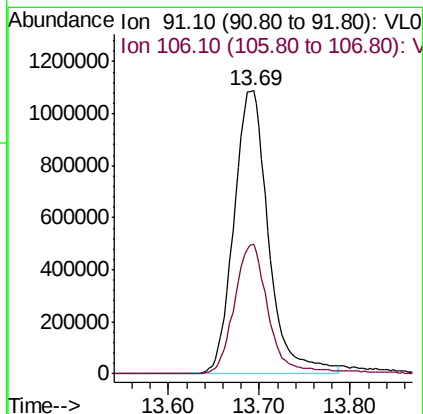
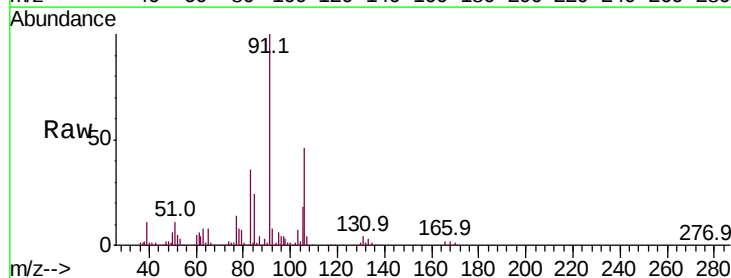
Acq: 23 Nov 2021 12:31

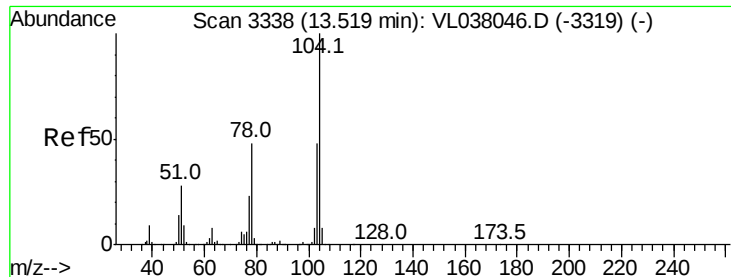
Tgt Ion: 91 Resp: 2876549

Ion Ratio Lower Upper

91 100

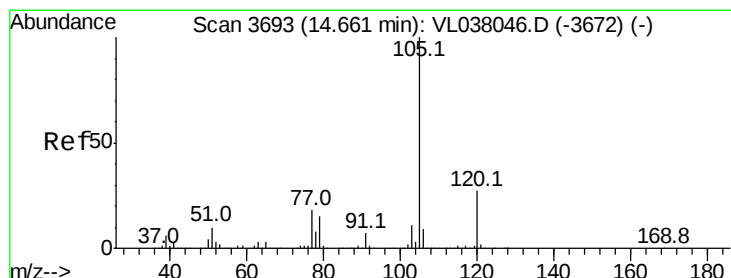
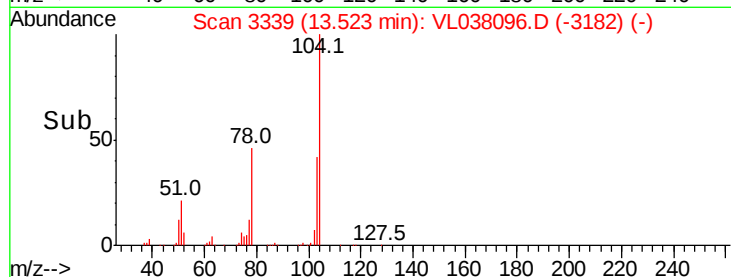
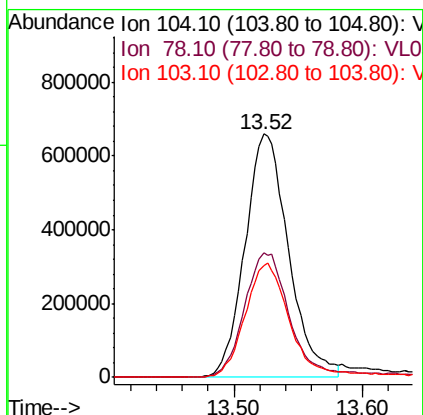
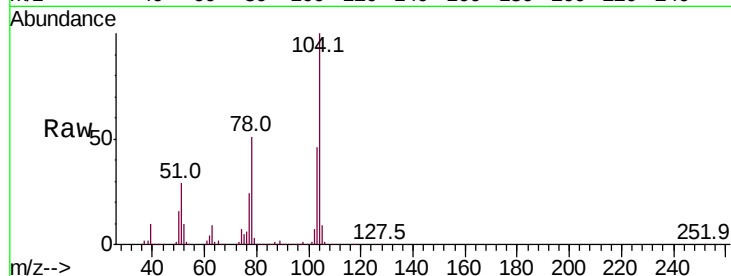
106 46.1 24.2 72.6





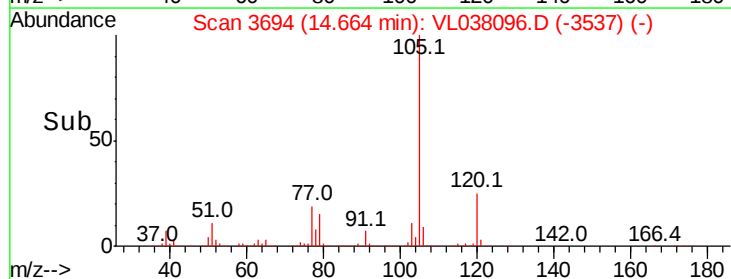
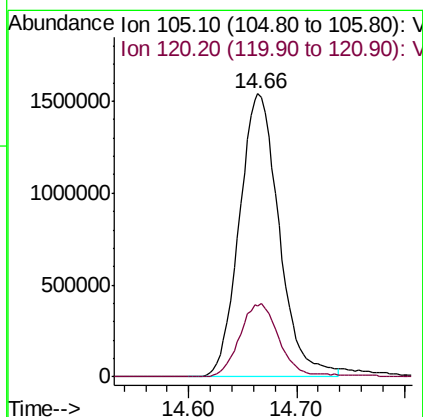
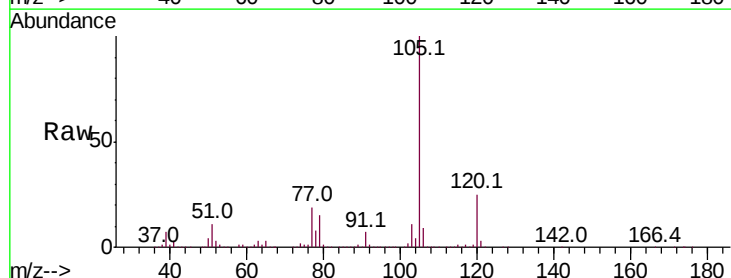
#61  
Stvrene  
Concen: 7.198 ppbv  
RT: 13.52  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId : VL1123ABS01  
Acq: 23 Nov 2021 12:31

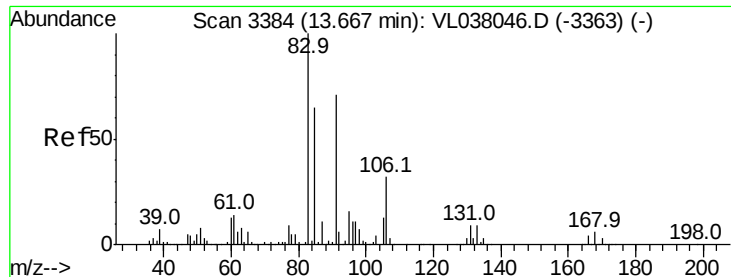
Tot Ion:104 Resp: 1552417  
Ion Ratio Lower Upper  
104 100  
78 54.4 39.8 59.6  
103 49.2 38.2 57.2



#62  
Isopropylbenzene  
Concen: 6.913 ppbv  
RT: 14.66 min Scan# 3694  
Delta R.T. 0.00 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

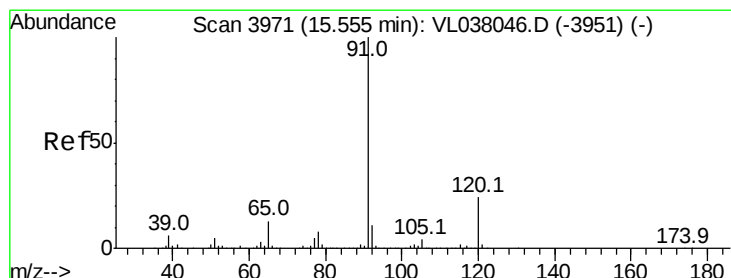
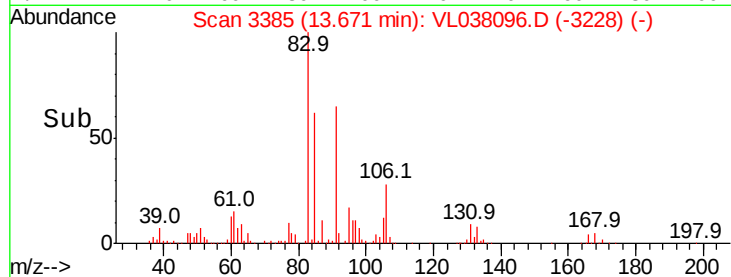
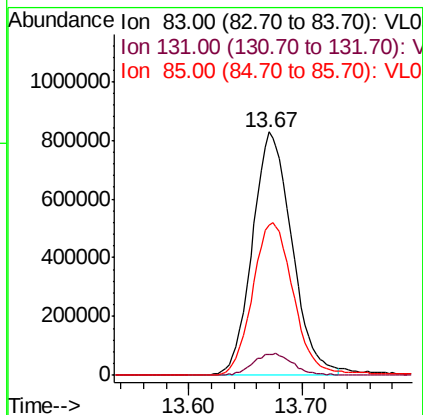
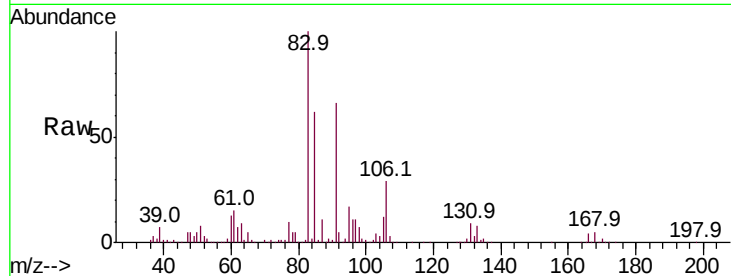
Tgt Ion:105 Resp: 3947323  
Ion Ratio Lower Upper  
105 100  
120 26.4 21.8 32.6





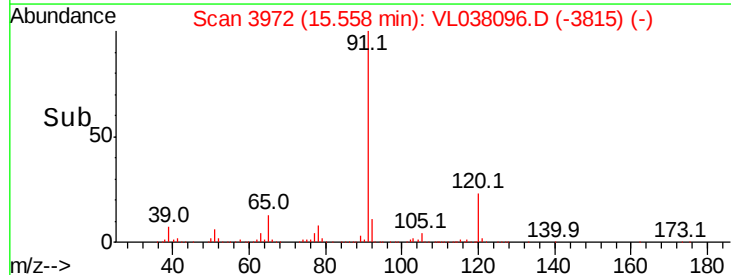
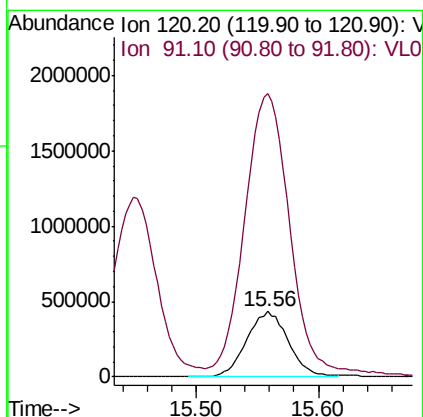
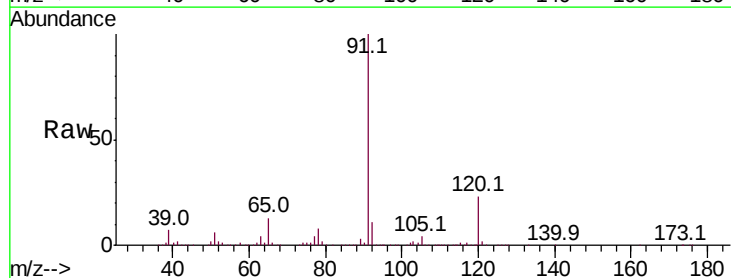
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 6.708 ppbv  
 RT: 13.67 min  
 Delta R.T. 0.00 min  
 Lab File: VL1123ABS01  
 Acq: 23 Nov 2021 12:31

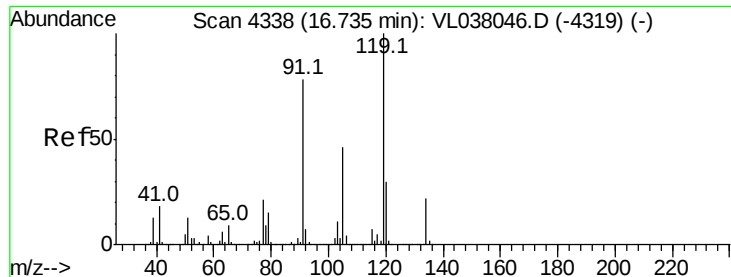
Tot Ion: 83 Resp: 2004283  
 Ion Ratio Lower Upper  
 83 100  
 131 9.3 4.9 14.7  
 85 66.3 33.4 100.1



#64  
 n-propylbenzene  
 Concen: 7.044 ppbv  
 RT: 15.56 min Scan# 3972  
 Delta R.T. 0.00 min  
 Lab File: VL038096.D  
 Acq: 23 Nov 2021 12:31

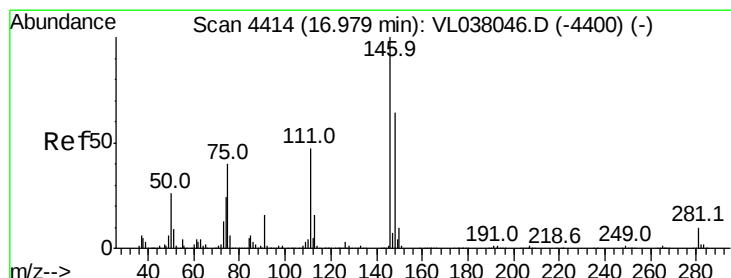
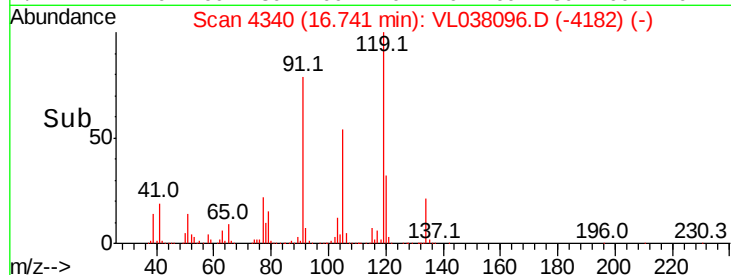
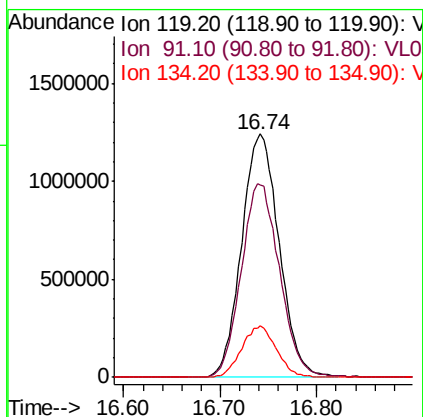
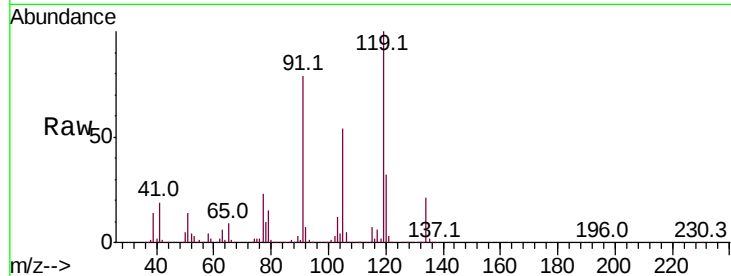
Tgt Ion: 120 Resp: 1024630  
 Ion Ratio Lower Upper  
 120 100  
 91 477.0 371.7 557.5





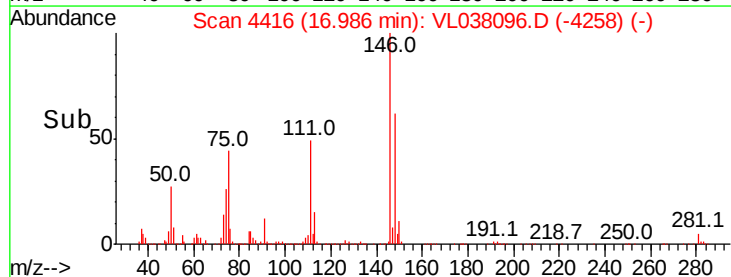
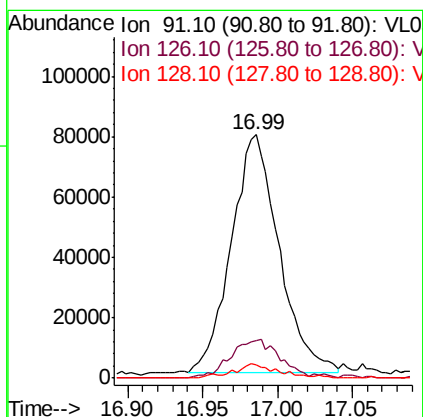
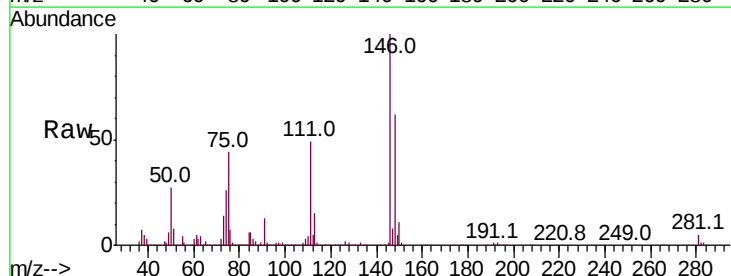
#65  
 tert-Butylbenzene  
 Concen: 6.653 ppbv  
 RT: 16.74 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Client Sample ID:  
 Lab File: VL1123ABS01  
 Acq: 23 Nov 2021 12:31

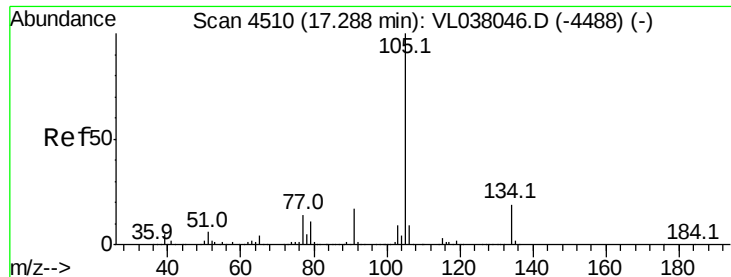
Tot Ion: 119 Resp: 3346630  
 Ion Ratio Lower Upper  
 119 100  
 91 81.3 63.2 94.8  
 134 19.8 16.1 24.1



#66  
 Benzyl Chloride  
 Concen: 6.845 ppbv  
 RT: 16.99 min Scan# 4416  
 Delta R.T.: 0.01 min  
 Lab File: VL038096.D  
 Acq: 23 Nov 2021 12:31

Tgt Ion: 91 Resp: 174507  
 Ion Ratio Lower Upper  
 91 100  
 126 18.0 15.5 23.3  
 128 5.8 5.6 8.4





#67

sec-Butylbenzene

Concen: 6.732 ppbv

RT: 17.29

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

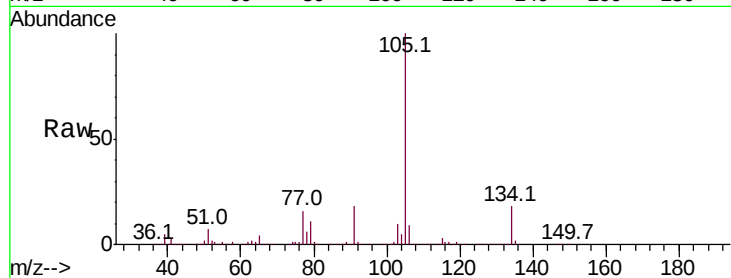
Acq: 23 Nov 2021 12:31

Tot Ion: 105 Resp: 4718956

Ion Ratio Lower Upper

105 100

134 18.3 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.29

2000000

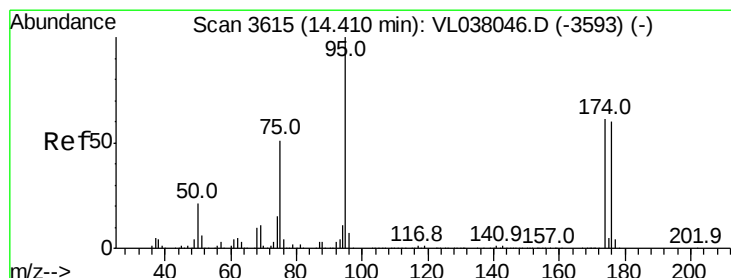
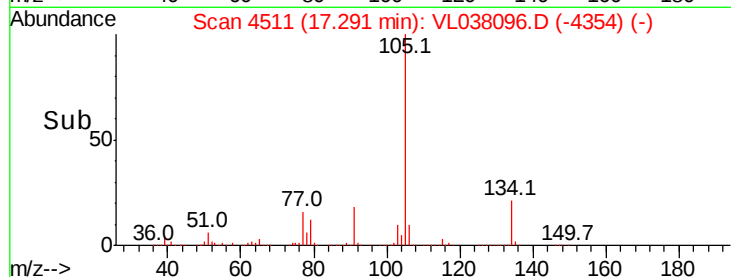
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 8.698 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.00 min

Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

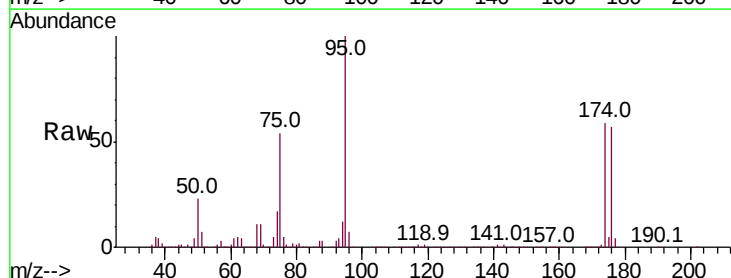
Tgt Ion: 95 Resp: 1955386

Ion Ratio Lower Upper

95 100

174 63.3 53.1 79.7

175 4.7 4.0 6.0



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

14.41

1000000

800000

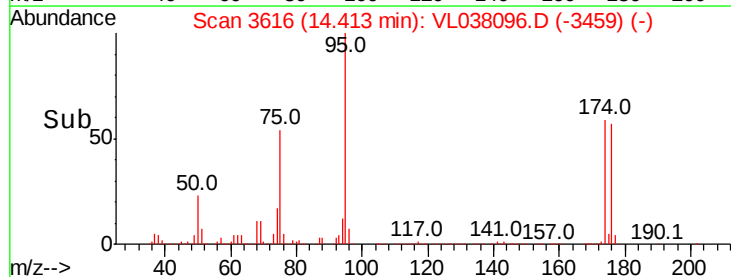
600000

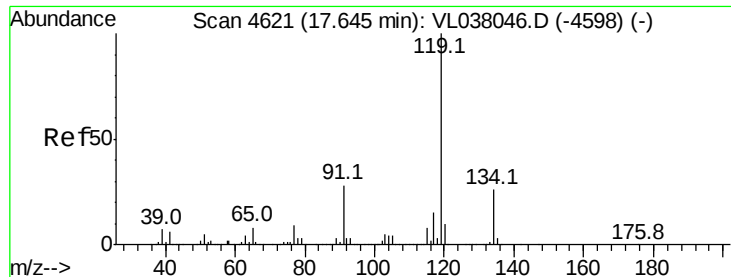
400000

200000

0

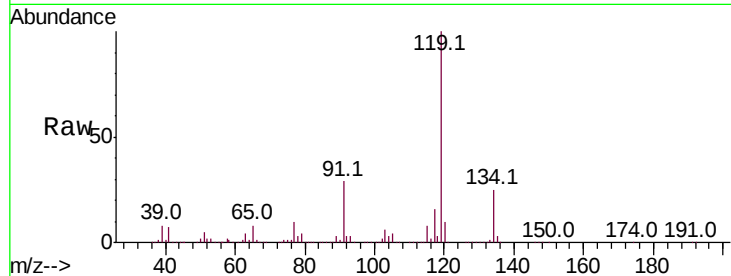
Time-->



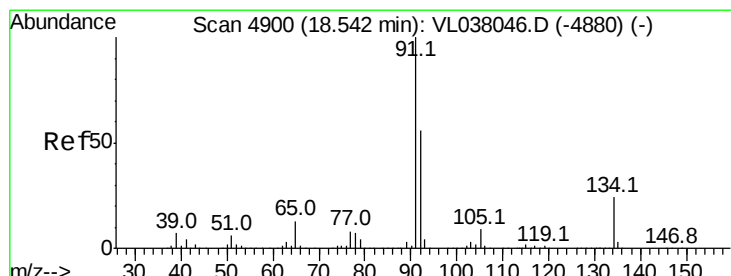
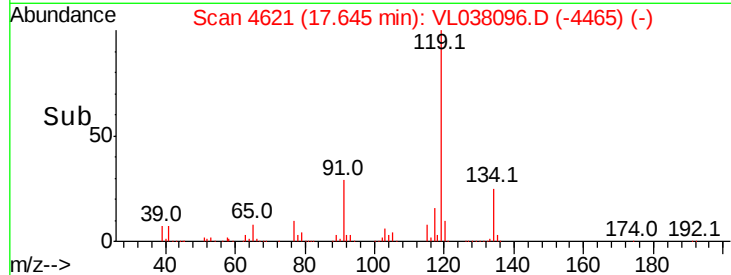
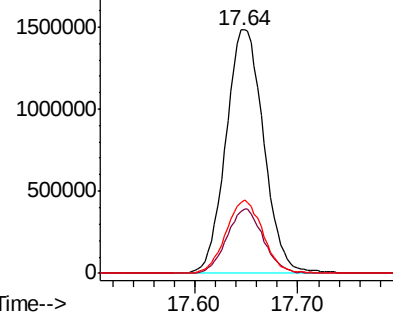


#69  
 p-Isopropyltoluene  
 Concen: 6.880 ppbv  
 RT: 17.64 min  
 Delta R.T. 0.00 min  
 Lab File: VL1123ABS01  
 Acq: 23 Nov 2021 12:31

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 119   | Resp: | 3772271 |
| Ion      | Ratio | Lower | Upper   |
| 119      | 100   |       |         |
| 134      | 25.5  | 20.6  | 30.8    |
| 91       | 29.5  | 22.2  | 33.4    |

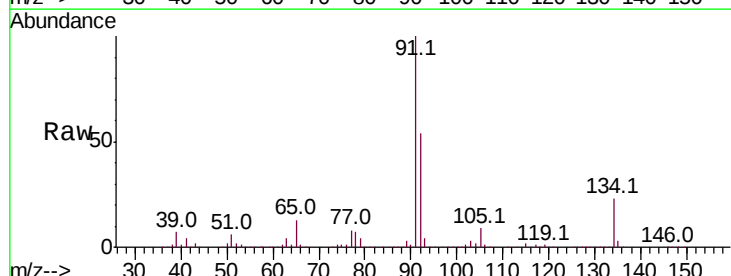


Abundance Ion 119.10 (118.80 to 119.80): V  
 2000000 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V

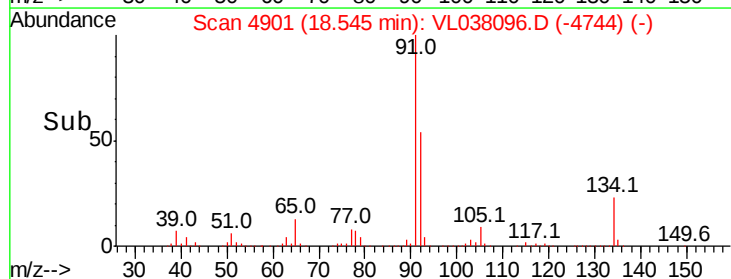
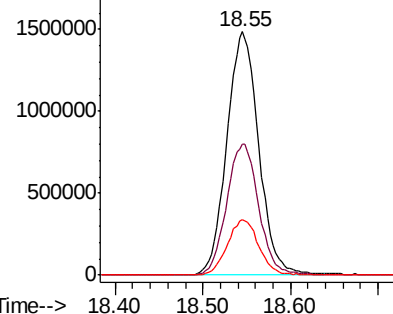


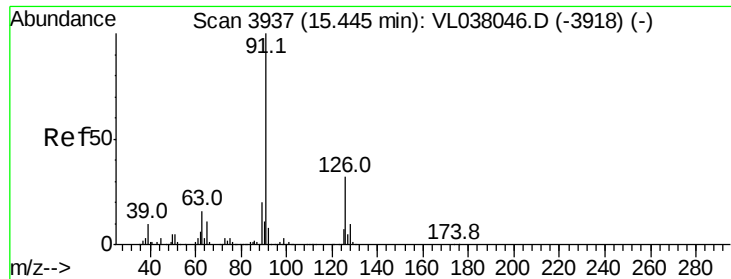
#70  
 n-Butylbenzene  
 Concen: 7.153 ppbv  
 RT: 18.55 min Scan# 4901  
 Delta R.T. 0.00 min  
 Lab File: VL038096.D  
 Acq: 23 Nov 2021 12:31

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 3749972 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 92       | 54.6  | 44.1  | 66.1    |
| 134      | 22.5  | 18.9  | 28.3    |



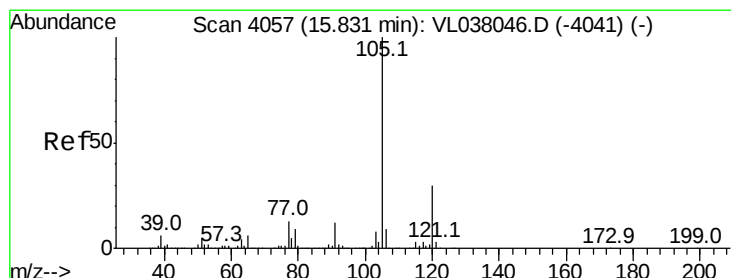
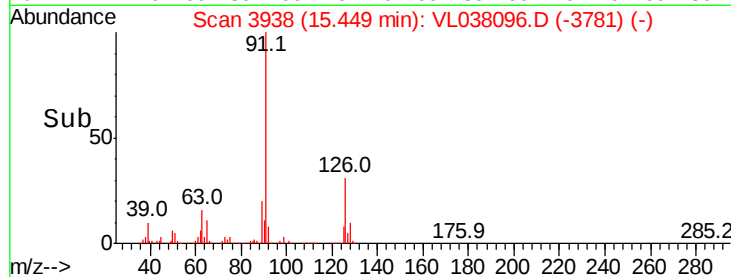
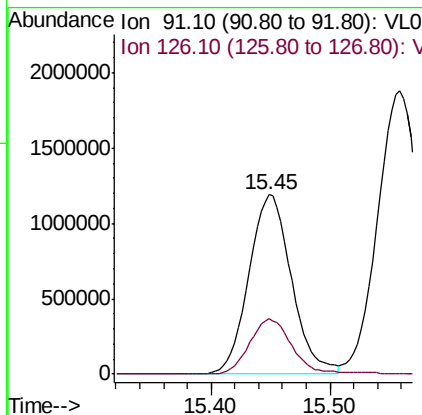
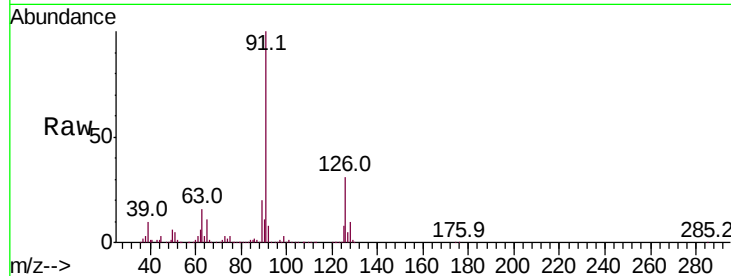
Abundance Ion 91.10 (90.80 to 91.80): VL0  
 2000000 Ion 92.10 (91.80 to 92.80): VL0  
 Ion 134.20 (133.90 to 134.90): V





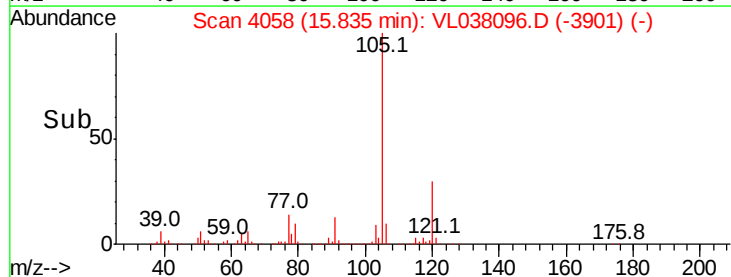
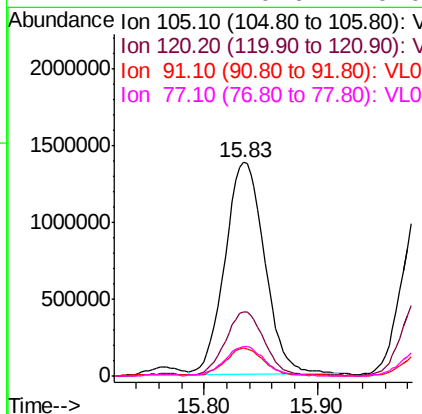
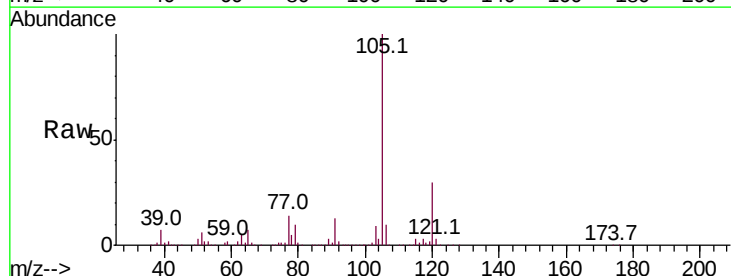
#71  
 2-Chlorotoluene  
 Concen: 7.067 ppbv  
 RT: 15.45 min  
 Delta R.T. MSVOA\_1  
 Lab File: ClientSampleId : VL1123ABS01  
 Acq: 23 Nov 2021 12:31

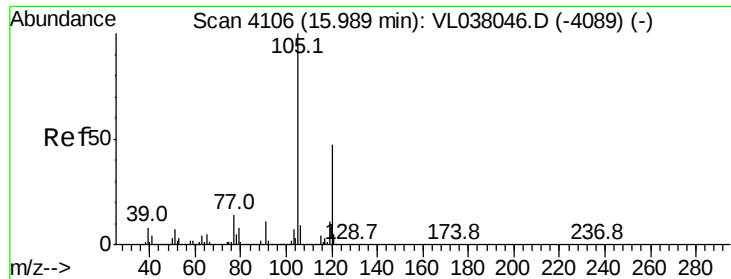
Tot Ion: 91 Resp: 2950080  
 Ion Ratio Lower Upper  
 91 100  
 126 31.5 13.1 52.3



#72  
 4-Ethyltoluene  
 Concen: 7.199 ppbv  
 RT: 15.83 min Scan# 4058  
 Delta R.T. 0.00 min  
 Lab File: VL038096.D  
 Acq: 23 Nov 2021 12:31

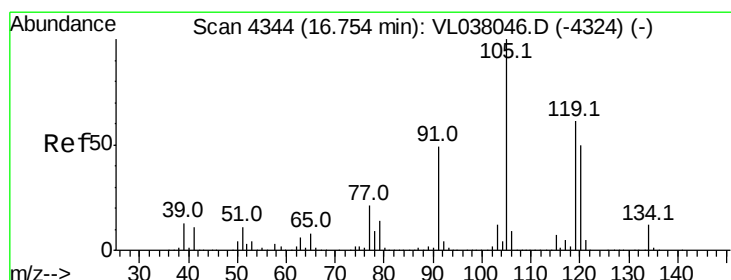
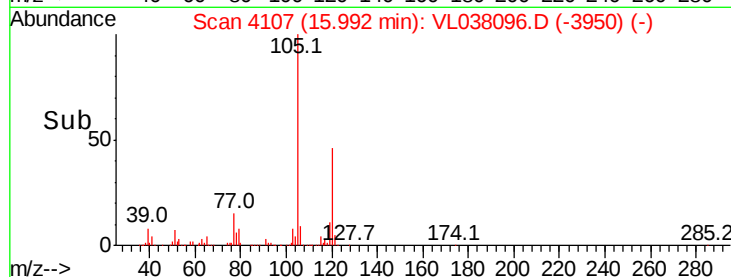
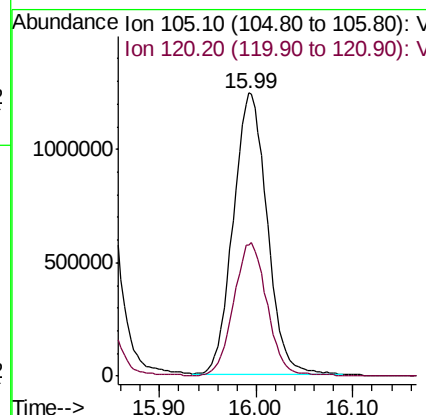
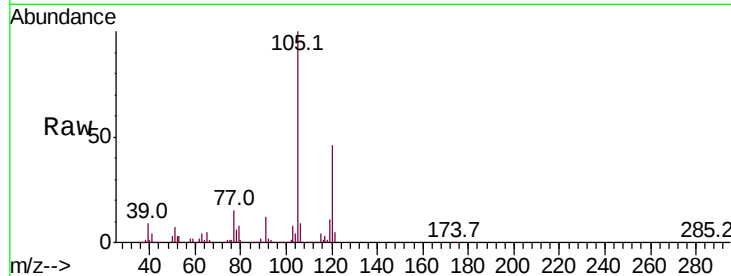
Tgt Ion: 105 Resp: 3357601  
 Ion Ratio Lower Upper  
 105 100  
 120 30.3 25.1 37.7  
 91 12.6 9.7 14.5  
 77 14.2 10.6 16.0





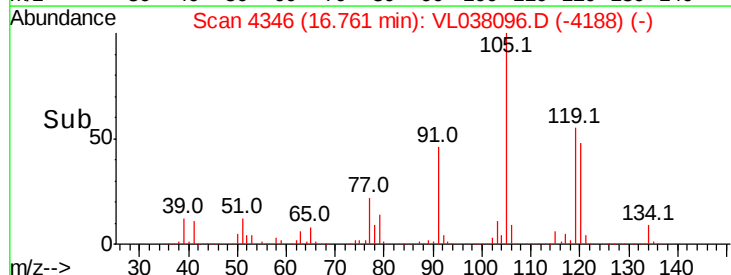
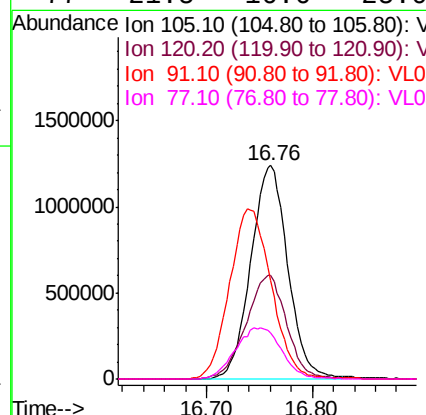
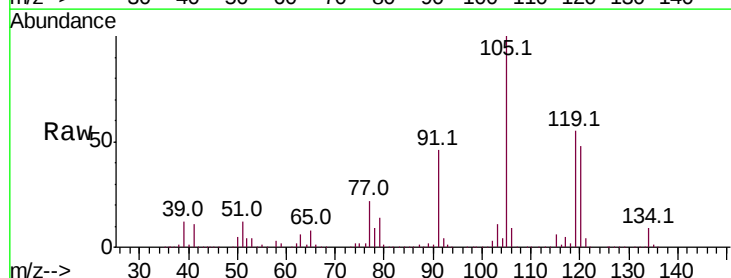
#73  
 1,3,5-Trimethylbenzene  
 Concen: 7.117 ppbv  
 RT: 15.99 min  
 Delta R.T. MSVOA\_1  
 Lab File: ClientSampleId : VL1123ABS01  
 Acq: 23 Nov 2021 12:31

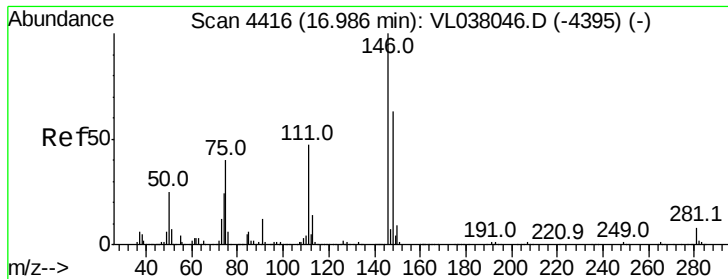
Tot Ion:105 Resp: 3031814  
 Ion Ratio Lower Upper  
 105 100  
 120 46.5 37.8 56.6



#74  
 1,2,4-Trimethylbenzene  
 Concen: 6.899 ppbv  
 RT: 16.76 min Scan# 4346  
 Delta R.T. 0.01 min  
 Lab File: VL038096.D  
 Acq: 23 Nov 2021 12:31

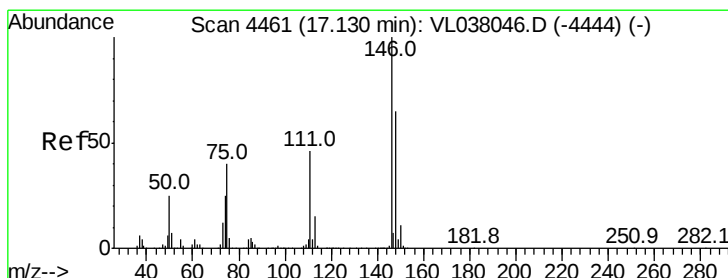
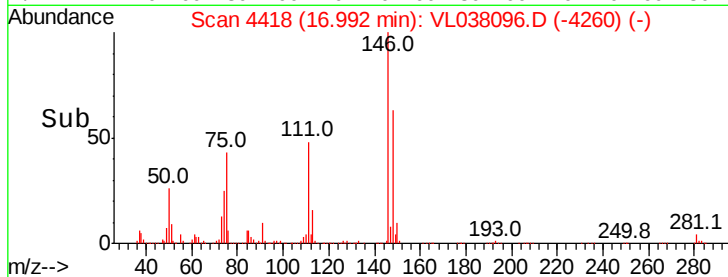
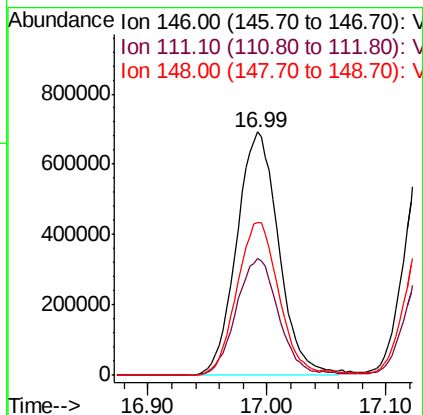
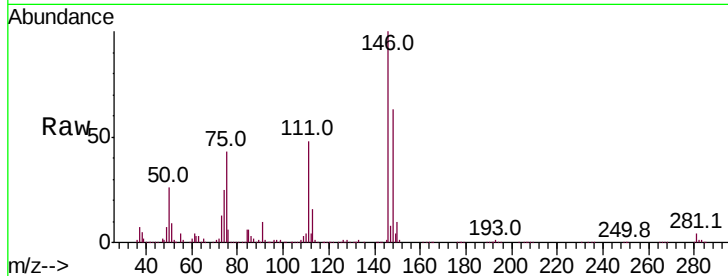
Tgt Ion:105 Resp: 3028284  
 Ion Ratio Lower Upper  
 105 100  
 120 48.3 40.1 60.1  
 91 45.6 39.8 59.8  
 77 21.5 16.6 25.0





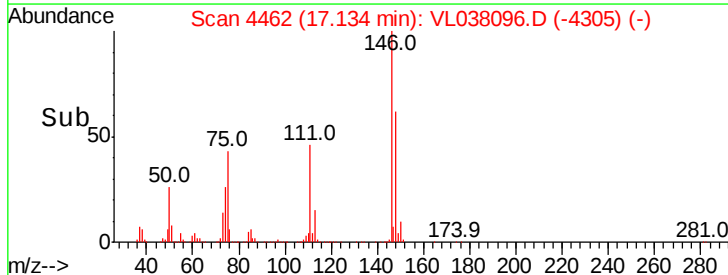
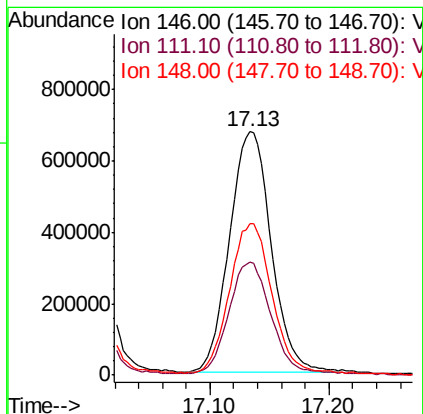
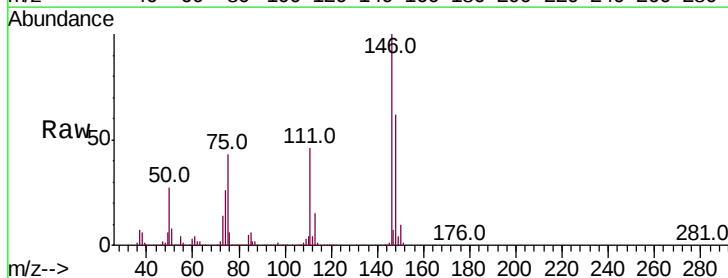
#75  
 1,3-Dichlorobenzene  
 Concen: 7.015 ppbv  
 RT: 16.99  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VL1123ABS01  
 Acq: 23 Nov 2021 12:31

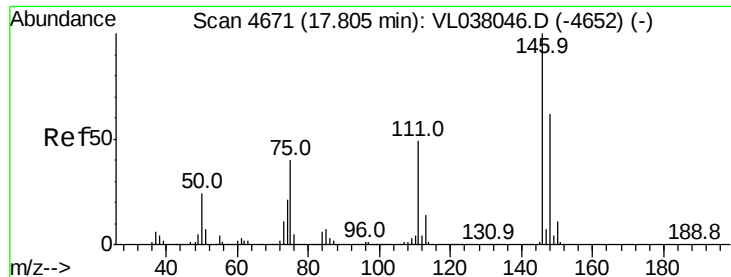
Tot Ion:146 Resp: 1691210  
 Ion Ratio Lower Upper  
 146 100  
 111 48.6 23.5 70.6  
 148 63.8 32.1 96.3



#76  
 1,4-Dichlorobenzene  
 Concen: 6.744 ppbv  
 RT: 17.13 min Scan# 4462  
 Delta R.T.: 0.00 min  
 Lab File: VL038096.D  
 Acq: 23 Nov 2021 12:31

Tgt Ion:146 Resp: 1636169  
 Ion Ratio Lower Upper  
 146 100  
 111 48.4 23.8 71.5  
 148 65.2 33.2 99.6





#77

1,2-Dichlorobenzene

Concen: 6.786 ppbv

RT: 17.81

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

VL1123ABS01

Acq: 23 Nov 2021 12:31

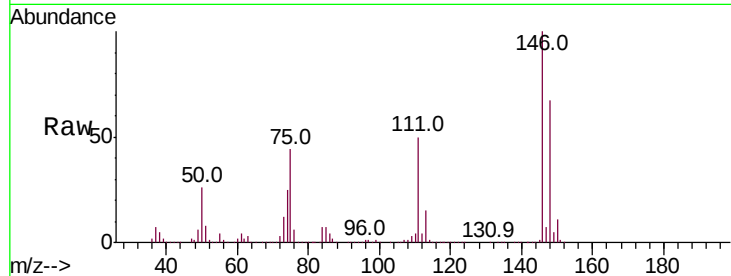
Tot Ion:146 Resp: 1584286

Ion Ratio Lower Upper

146 100

111 50.0 24.8 74.4

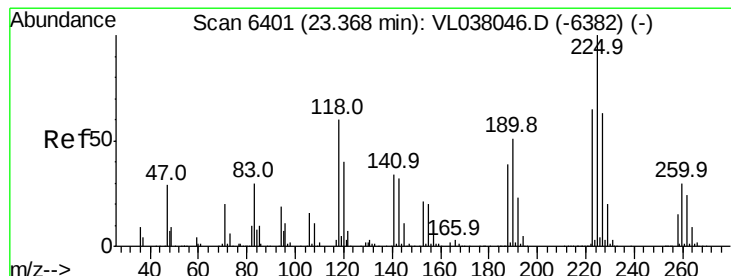
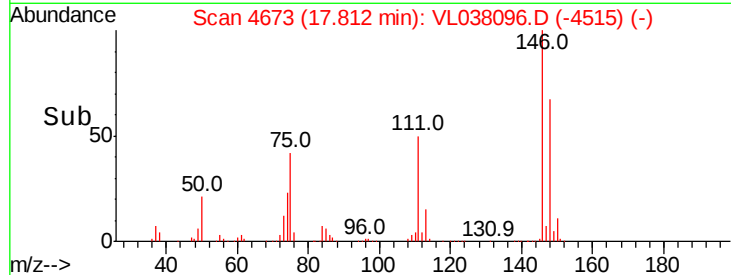
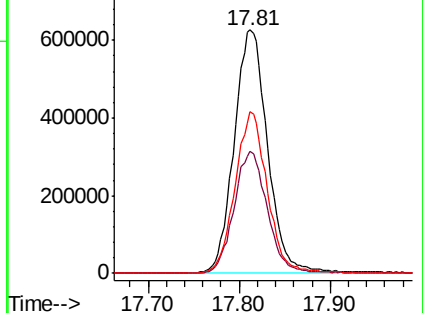
148 64.8 32.3 96.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 5.964 ppbv

RT: 23.37 min Scan# 6401

Delta R.T. 0.00 min

Lab File: VL038096.D

Acq: 23 Nov 2021 12:31

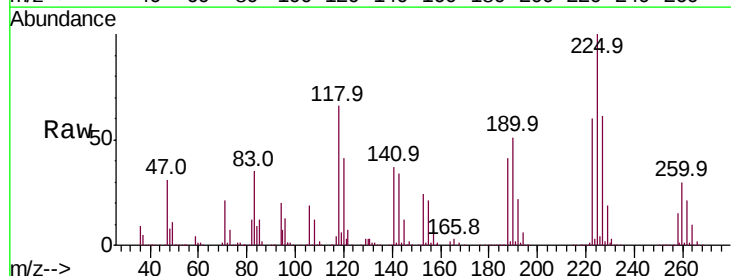
Tgt Ion:225 Resp: 869307

Ion Ratio Lower Upper

225 100

223 63.9 52.3 78.5

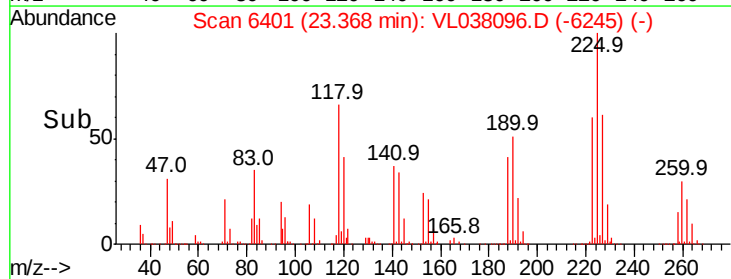
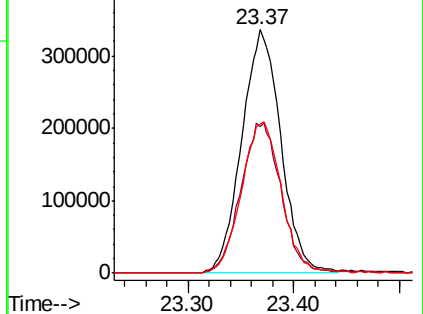
227 64.1 52.4 78.6

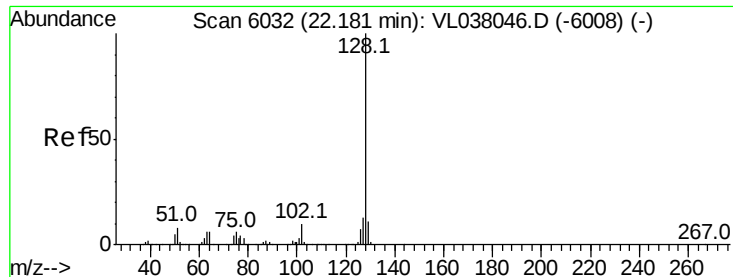


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

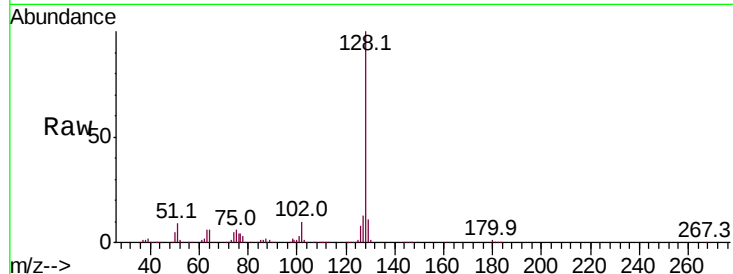
Ion 226.90 (226.60 to 227.60): V



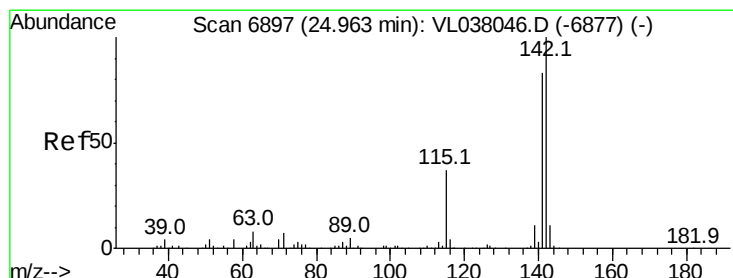
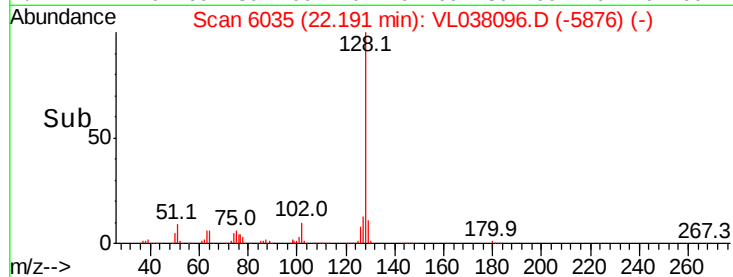
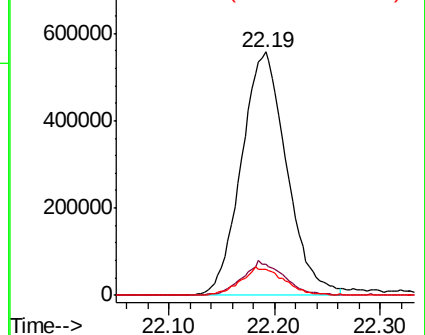


#79  
Naphthalene  
Concen: 7.180 ppbv  
RT: 22.19 min  
Instrument: MSVOA\_1  
Delta R.T.: 0.00 min  
Lab File: VL1123ABS01  
Acq: 23 Nov 2021 12:31

| Tot Ion: | 128   | Resp: | 1659917 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 128      | 100   |       |         |
| 127      | 12.6  | 10.4  | 15.6    |
| 129      | 10.6  | 8.9   | 13.3    |

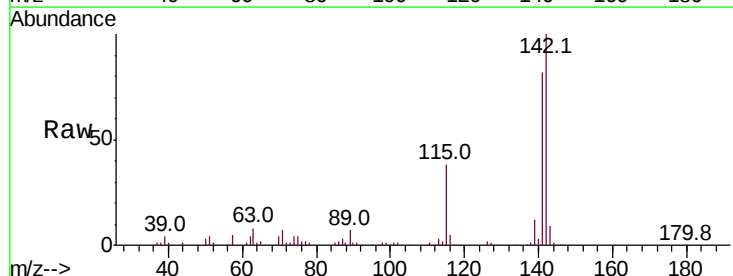


Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V

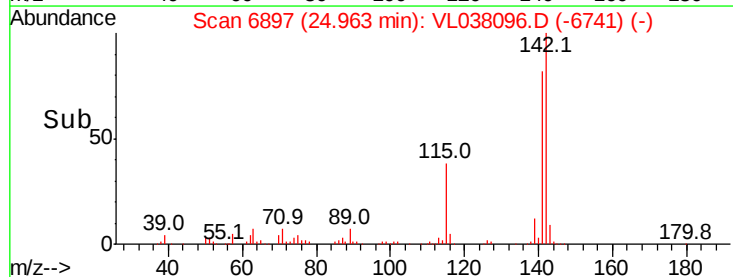
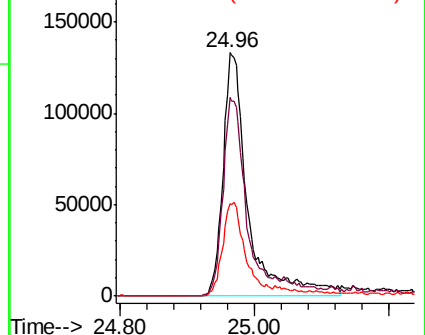


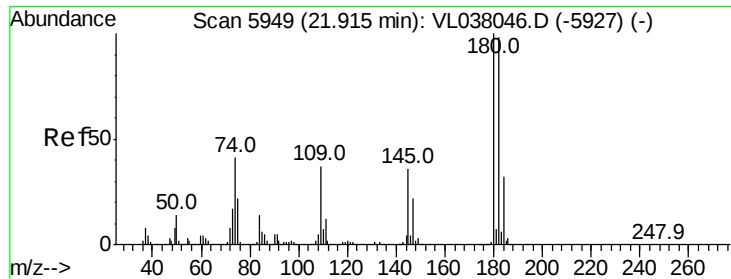
#80  
Naphthalene, 2-methyl-  
Concen: 7.002 ppbv  
RT: 24.96 min Scan# 6897  
Delta R.T.: 0.00 min  
Lab File: VL038096.D  
Acq: 23 Nov 2021 12:31

| Tgt Ion: | 142   | Resp: | 346886 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 142      | 100   |       |        |
| 141      | 83.3  | 67.3  | 100.9  |
| 115      | 38.5  | 28.9  | 43.3   |



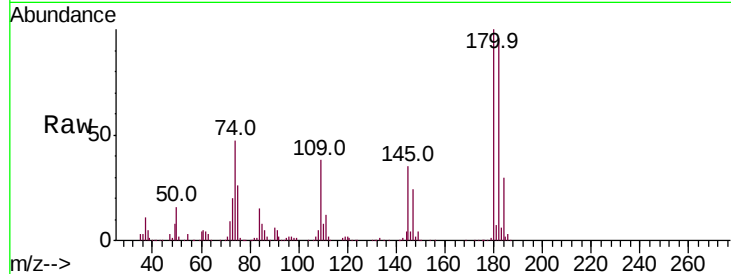
Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 6.736 ppbv  
 RT: 21.92  
 Delta R.T: MSVOA\_L  
 Lab File: ClientSampleId :  
 VL1123ABS01  
 Acq: 23 Nov 2021 12:31

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 100.6 | 77.4  | 116.2 |
| 184     | 31.4  | 25.0  | 37.4  |



Abundance Ion 180.00 (179.70 to 180.70): V  
 400000 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V

