

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL032422\  
 Data File : VL038749.D  
 Acq On : 24 Mar 2022 15:41  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Mar 25 02:07:41 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 21 17:09:26 2022  
 QLast Update : Mon Mar 21 17:09:26 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 933202   | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 2519240  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 2842803  | 10.00 | ppbv  | 0.02     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 1857367  | 8.52     | ppbv | 0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 85.20% |

## Target Compounds

|                                |      |     |         |       |      | Qvalue |
|--------------------------------|------|-----|---------|-------|------|--------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 1582949 | 12.62 | ppbv | 99     |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 893000  | 9.06  | ppbv | 98     |
| 4) Chloromethane               | 3.15 | 50  | 482305  | 8.91  | ppbv | 98     |
| 5) Vinyl Chloride              | 3.27 | 62  | 503219  | 9.15  | ppbv | 98     |
| 6) Bromomethane                | 3.48 | 94  | 289679  | 9.88  | ppbv | 99     |
| 7) Chloroethane                | 3.57 | 64  | 168598  | 9.26  | ppbv | 98     |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 1214783 | 9.70  | ppbv | 98     |
| 9) Propene                     | 3.02 | 41  | 408744  | 8.59  | ppbv | 98     |
| 10) Heptane                    | 8.13 | 43  | 1000104 | 8.79  | ppbv | 98     |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 1141756 | 10.31 | ppbv | 98     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 856304  | 10.05 | ppbv | 97     |
| 13) Ethanol                    | 3.62 | 45  | 25429   | 4.84  | ppbv | 65     |
| 14) Bromoethene                | 3.75 | 108 | 393379  | 10.38 | ppbv | 98     |
| 15) Acetone                    | 3.86 | 43  | 769406  | 9.56  | ppbv | 100    |
| 16) 1,3-Butadiene              | 3.34 | 39  | 438568  | 9.60  | ppbv | 97     |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 733449  | 10.43 | ppbv | 100    |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 401100  | 10.48 | ppbv | 95     |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 413555  | 9.26  | ppbv | 99     |
| 20) Methylene Chloride         | 4.35 | 84  | 315470  | 9.30  | ppbv | 99     |
| 21) Allyl Chloride             | 4.42 | 41  | 609136  | 10.51 | ppbv | 98     |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 423495  | 10.66 | ppbv | 99     |
| 23) Vinyl Acetate              | 5.08 | 43  | 880216  | 11.29 | ppbv | 99     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 778583  | 10.14 | ppbv | 100    |
| 25) Ethyl Acetate              | 5.68 | 43  | 1829867 | 9.03  | ppbv | 99     |
| 26) Hexane                     | 5.70 | 57  | 825530  | 9.10  | ppbv | 97     |
| 27) Carbon Disulfide           | 4.56 | 76  | 1020457 | 11.46 | ppbv | 99     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 760665  | 11.25 | ppbv | 99     |
| 29) Chloroform                 | 5.76 | 83  | 1354854 | 9.32  | ppbv | 99     |
| 30) Cyclohexane                | 7.14 | 84  | 706101  | 8.95  | ppbv | 96     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 827277  | 9.69  | ppbv | 100    |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 1370838 | 9.78  | ppbv | 99     |
| 34) 2-Butanone                 | 5.25 | 43  | 912771  | 9.15  | ppbv | 98     |
| 35) Carbon Tetrachloride       | 7.03 | 117 | 1428884 | 9.78  | ppbv | 99     |
| 36) Benzene                    | 6.90 | 78  | 1730303 | 8.90  | ppbv | 100    |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 943817  | 9.54  | ppbv | 99     |
| 38) Trichloroethene            | 7.84 | 130 | 753097  | 9.25  | ppbv | 99     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 648420  | 8.53  | ppbv | 96     |
| 40) 1,4-Dioxane                | 7.83 | 88  | 223634  | 8.47  | ppbv | 88     |
| 41) Tetrahydrofuran            | 6.05 | 42  | 650941  | 8.77  | ppbv | 97     |
| 42) Bromodichloromethane       | 7.80 | 83  | 1451337 | 9.79  | ppbv | 100    |
| 43) Methyl Methacrylate        | 8.02 | 69  | 695370  | 9.63  | ppbv | 97     |

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 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

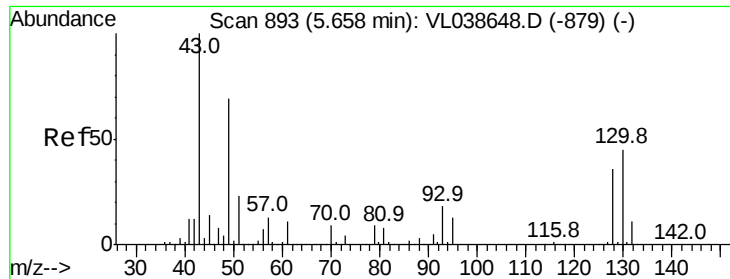
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Mar 25 02:07:41 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL032122AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 21 17:09:26 2022  
 QLast Update : Mon Mar 21 17:09:26 2022  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 2792525  | 8.55  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 819328   | 11.16 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1005661  | 10.13 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 698664   | 8.61  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.31 | 129  | 1255786  | 9.88  | ppbv   | 99       |
| 49) Bromoform                 | 13.05 | 173  | 1035345  | 9.99  | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 1649103  | 8.90  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.14 | 43   | 1264405  | 9.50  | ppbv   | 99       |
| 52) Tetrachloroethene         | 11.23 | 164  | 634346   | 8.92  | ppbv   | 97       |
| 53) Toluene                   | 9.81  | 91   | 1961772  | 9.39  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 1043308  | 9.42  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 876831   | 7.44  | ppbv # | 57       |
| 57) Chlorobenzene             | 12.15 | 112  | 1446140  | 7.05  | ppbv   | 100      |
| 58) Ethyl Benzene             | 12.72 | 91   | 2550424  | 7.67  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.00 | 91   | 2225760  | 7.66  | ppbv # | 39       |
| 60) o-Xylene                  | 13.70 | 91   | 2034424  | 7.37  | ppbv   | 99       |
| 61) Styrene                   | 13.53 | 104  | 1236402  | 8.26  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.67 | 105  | 2967512  | 7.15  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 1299799  | 6.08  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.57 | 120  | 784623   | 7.21  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 16.75 | 119  | 2610423  | 7.00  | ppbv   | 98       |
| 66) Benzyl Chloride           | 16.99 | 91   | 666998   | 9.45  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.30 | 105  | 3709245  | 6.96  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 3096813  | 7.12  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.55 | 91   | 3247236  | 7.23  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 2214661  | 7.19  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 2417380  | 7.42  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 2153926  | 7.25  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 2292552  | 7.09  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 1388721  | 6.74  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 1355399  | 6.62  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 1371405  | 6.72  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 1284426  | 6.81  | ppbv   | 100      |
| 79) Naphthalene               | 22.20 | 128  | 2230214  | 9.03  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.97 | 142  | 388571   | 5.86  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 1289159  | 7.62  | ppbv   | 98       |

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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

VSTDCCC010

Acq: 24 Mar 2022 15:41

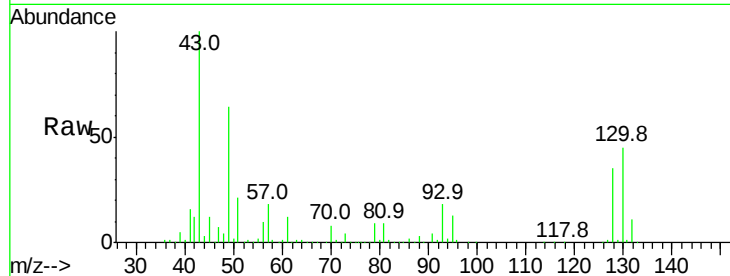
Tgt Ion: 49 Resp: 933202

Ion Ratio Lower Upper

49 100

128 54.8 26.2 78.6

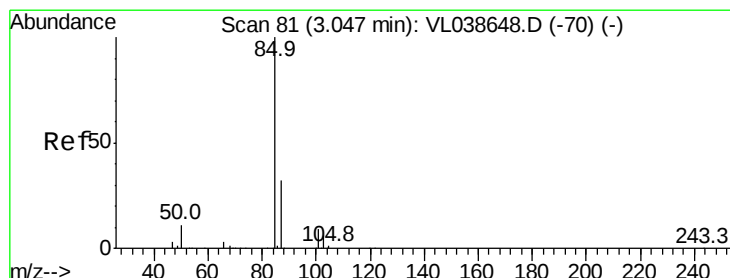
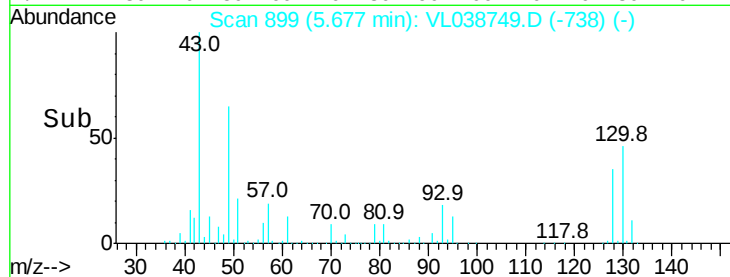
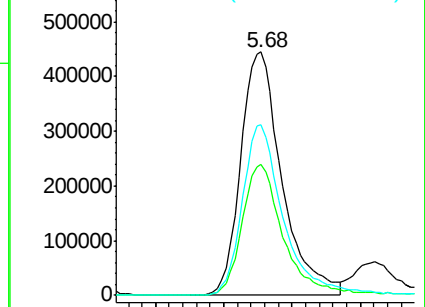
130 71.6 33.7 101.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 12.62 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL038749.D

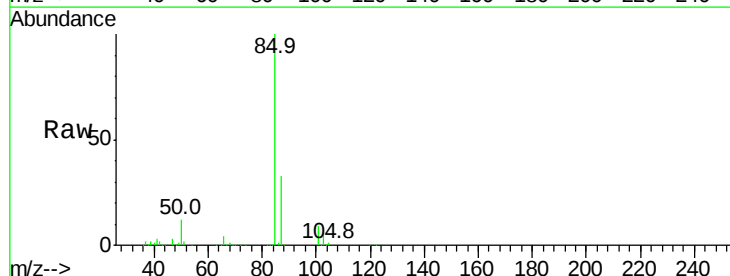
Acq: 24 Mar 2022 15:41

Tgt Ion: 85 Resp: 1582949

Ion Ratio Lower Upper

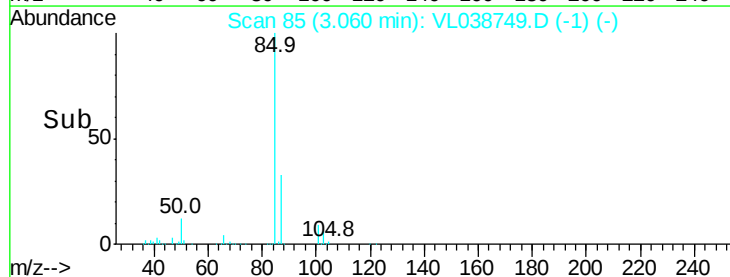
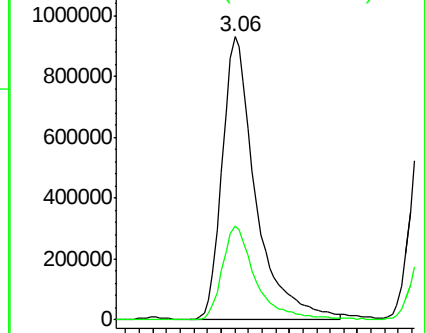
85 100

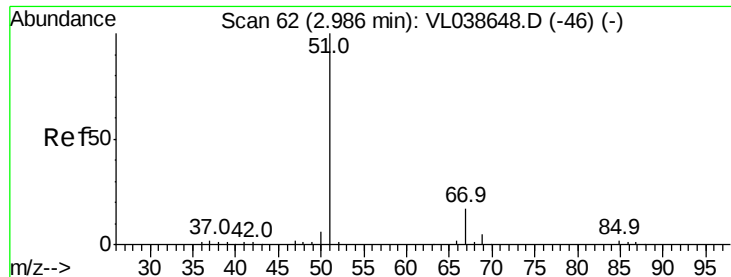
87 33.3 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

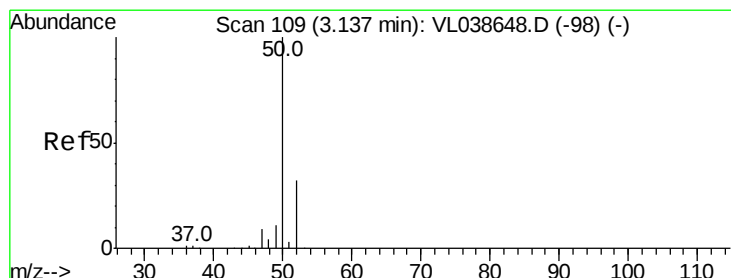
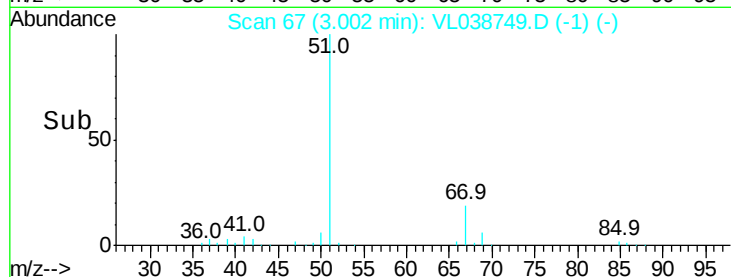
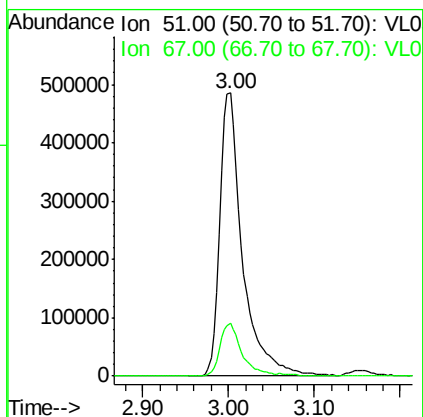
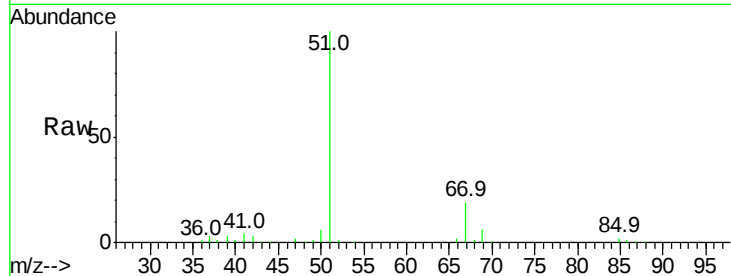
Ion 87.00 (86.70 to 87.70): VL0





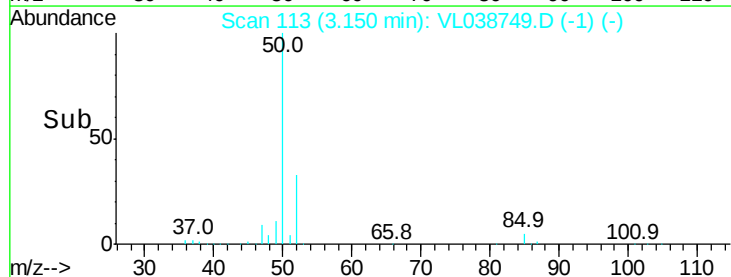
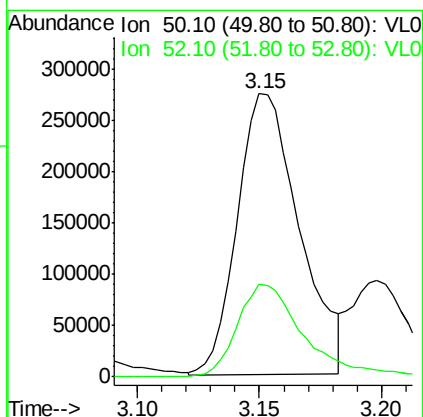
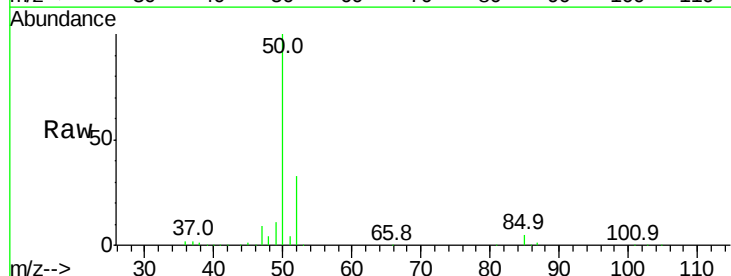
#3  
 Chlorodifluoromethane  
 Concen: 9.06 ppbv  
 RT: 3.00  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010  
 Acq: 24 Mar 2022 15:41

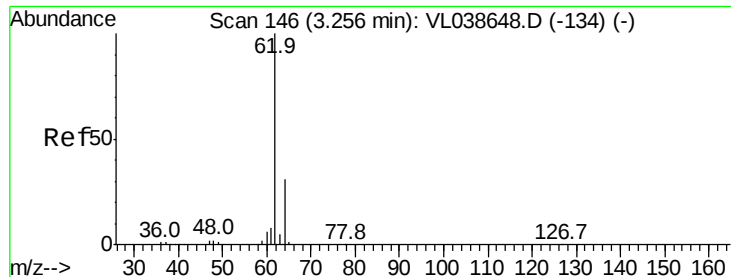
Tgt Ion: 51 Resp: 893000  
 Ion Ratio Lower Upper  
 51 100  
 67 18.5 14.1 21.1



#4  
 Chloromethane  
 Concen: 8.91 ppbv  
 RT: 3.15 min Scan# 113  
 Delta R.T.: 0.01 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

Tgt Ion: 50 Resp: 482305  
 Ion Ratio Lower Upper  
 50 100  
 52 33.0 25.5 38.3





#5

Vinyl Chloride

Concen: 9.15 ppbv

RT: 3.27 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

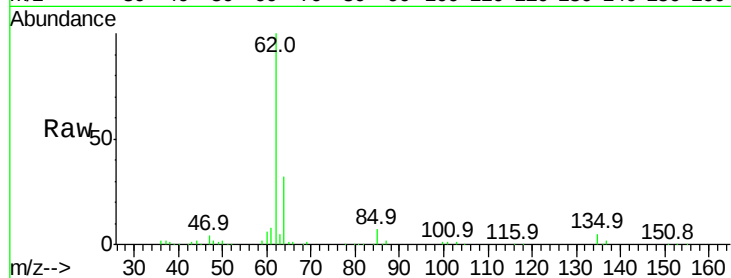
Acq: 24 Mar 2022 15:41 VSTDCCC010

Tgt Ion: 62 Resp: 503219

Ion Ratio Lower Upper

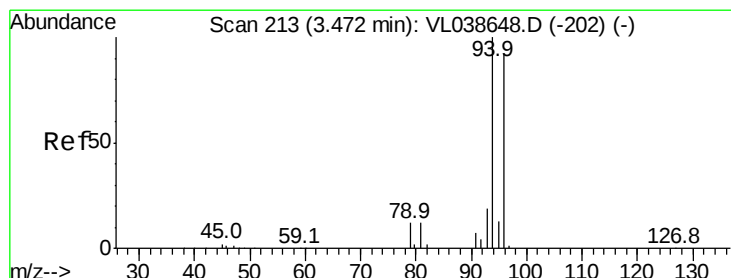
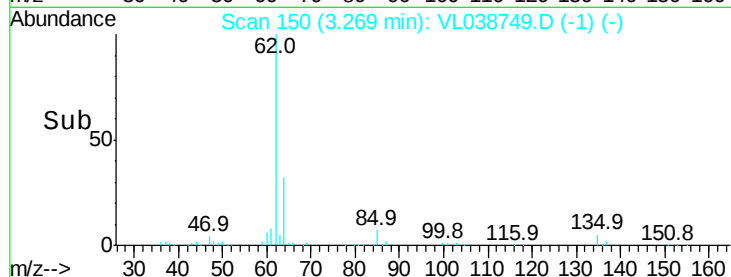
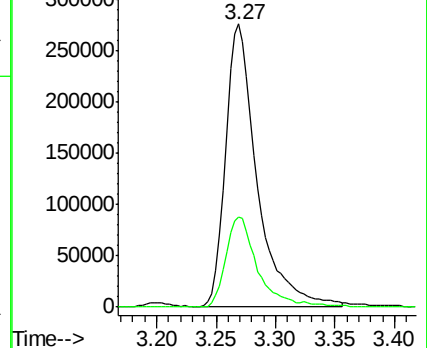
62 100

64 32.1 25.0 37.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.88 ppbv

RT: 3.48 min Scan# 217

Delta R.T. 0.01 min

Lab File: VL038749.D

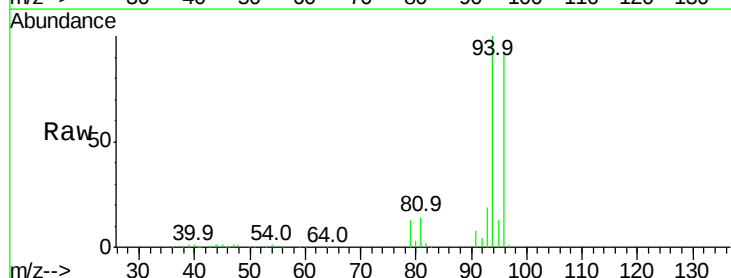
Acq: 24 Mar 2022 15:41

Tgt Ion: 94 Resp: 289679

Ion Ratio Lower Upper

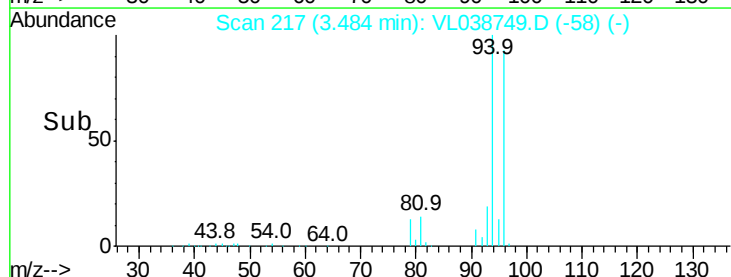
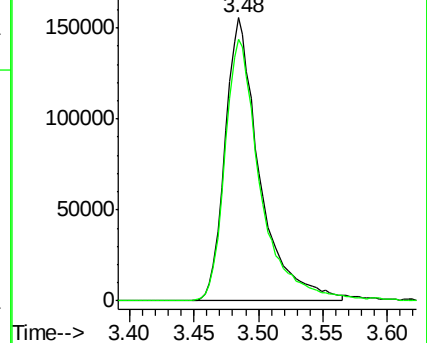
94 100

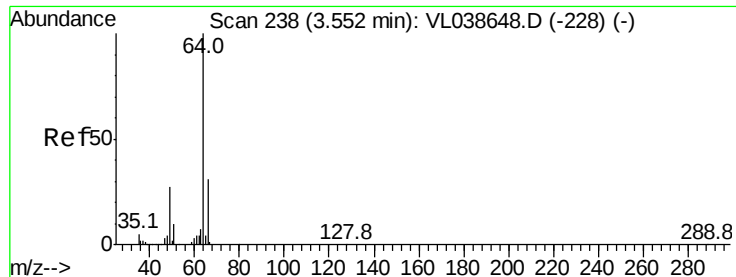
96 92.6 73.3 109.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.26 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

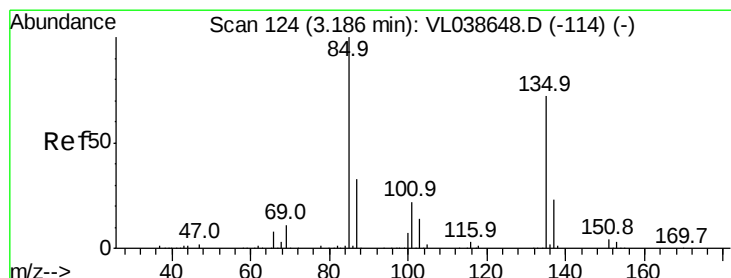
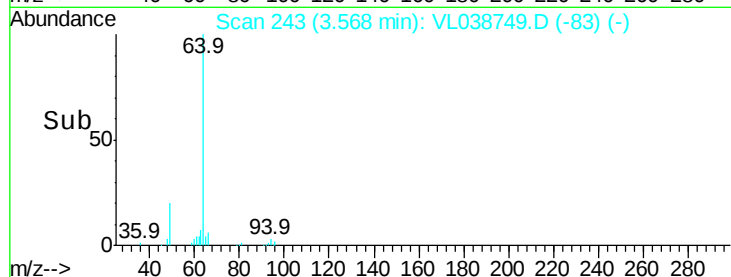
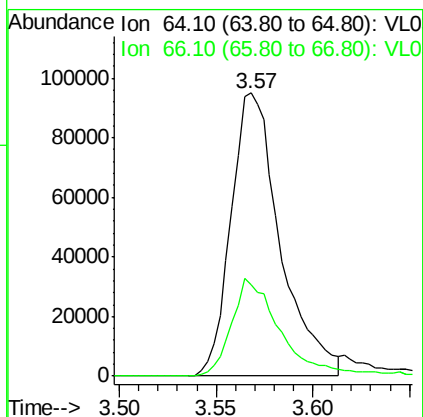
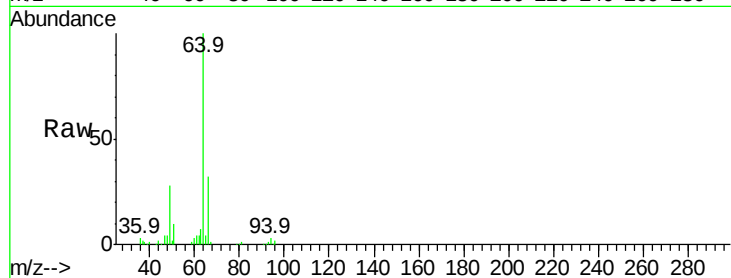
Acq: 24 Mar 2022 15:41 VSTDCCC010

Tgt Ion: 64 Resp: 168598

Ion Ratio Lower Upper

64 100

66 32.4 25.0 37.6



#8

Dichlorotetrafluoroethane

Concen: 9.70 ppbv

RT: 3.20 min Scan# 128

Delta R.T. 0.01 min

Lab File: VL038749.D

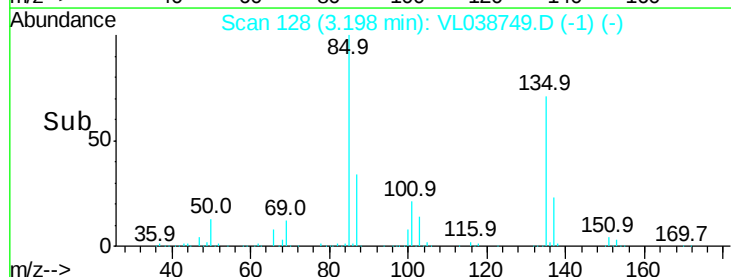
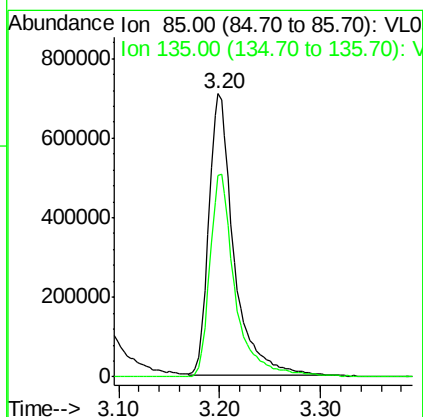
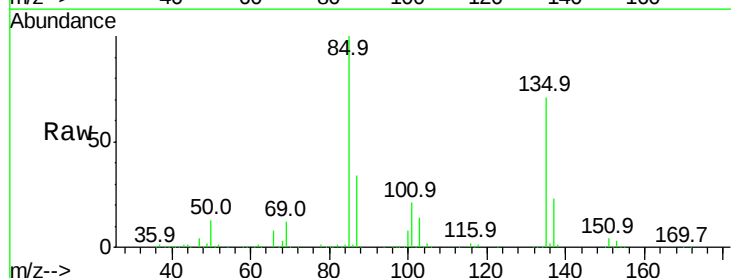
Acq: 24 Mar 2022 15:41

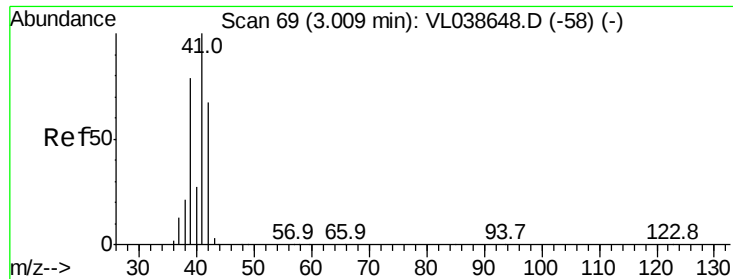
Tgt Ion: 85 Resp: 1214783

Ion Ratio Lower Upper

85 100

135 73.5 57.8 86.6





#9

Propene

Concen: 8.59 ppbv

RT: 3.02 Instrument: MSVOA\_1

Delta R.T. 0.02

Lab File: ClientSampleId: VSTDCCC010

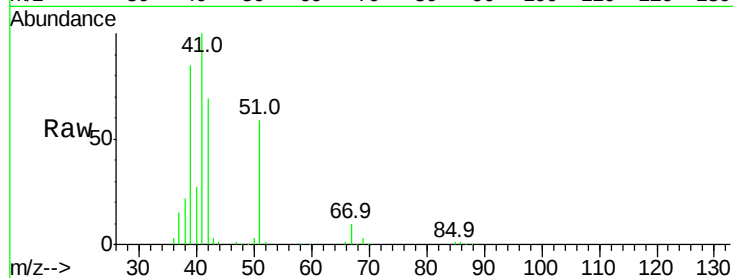
Acq: 24 Mar 2022 15:41

Tgt Ion: 41 Resp: 408744

Ion Ratio Lower Upper

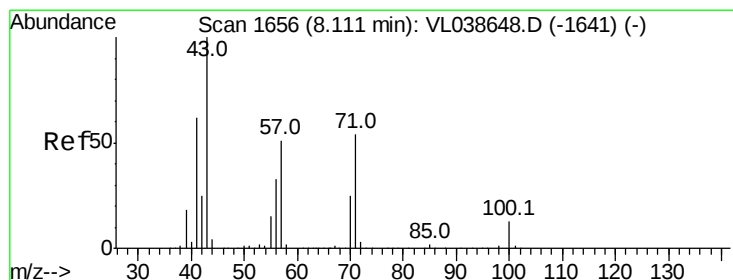
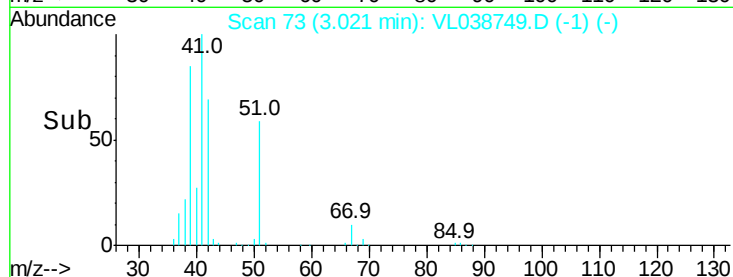
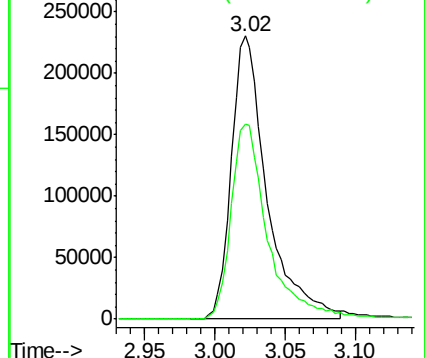
41 100

42 71.6 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 8.79 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.02 min

Lab File: VL038749.D

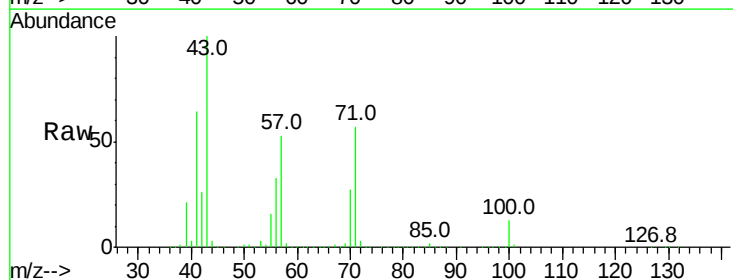
Acq: 24 Mar 2022 15:41

Tgt Ion: 43 Resp: 1000104

Ion Ratio Lower Upper

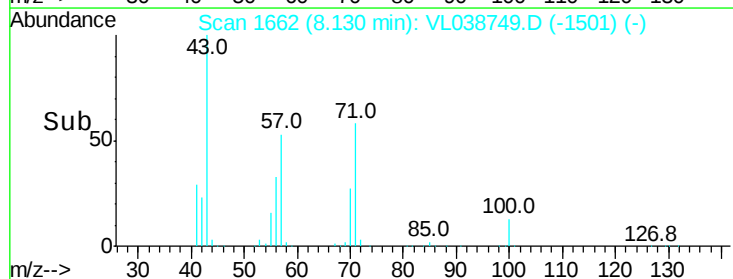
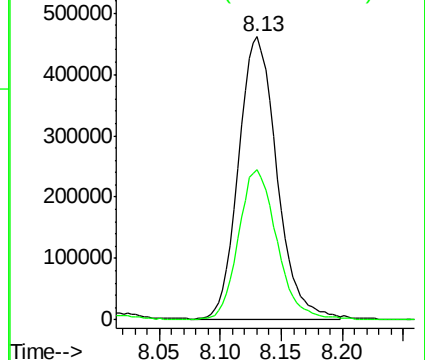
43 100

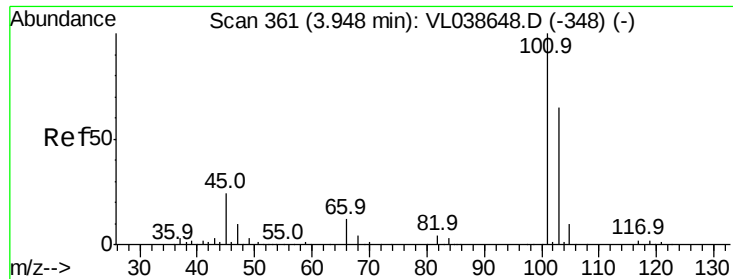
57 53.4 41.4 62.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

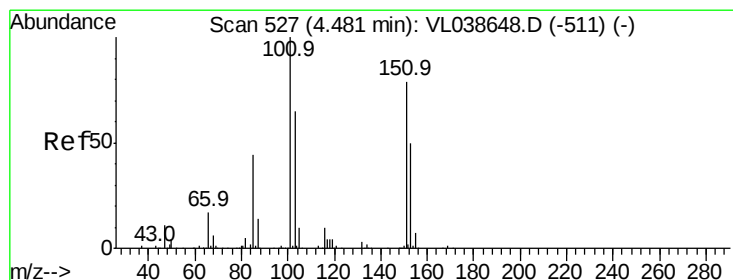
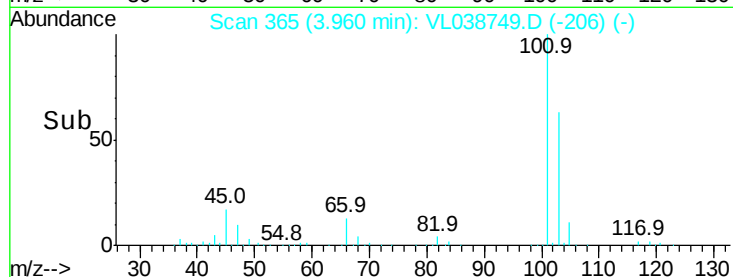
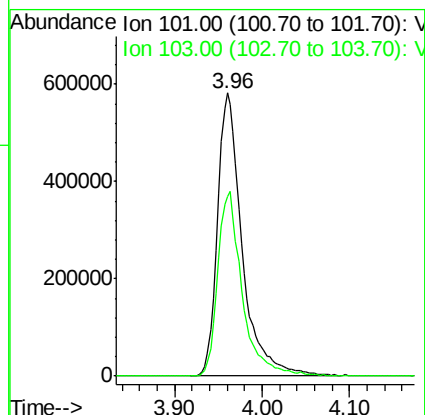
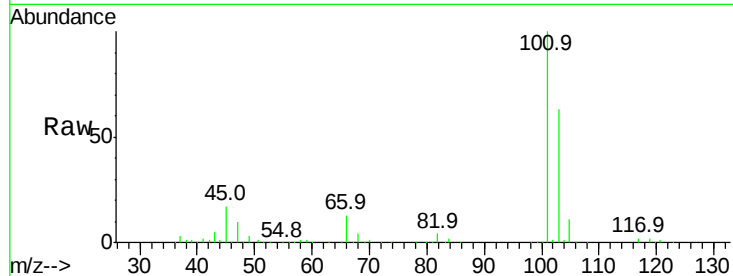
Ion 57.10 (56.80 to 57.80): VL0





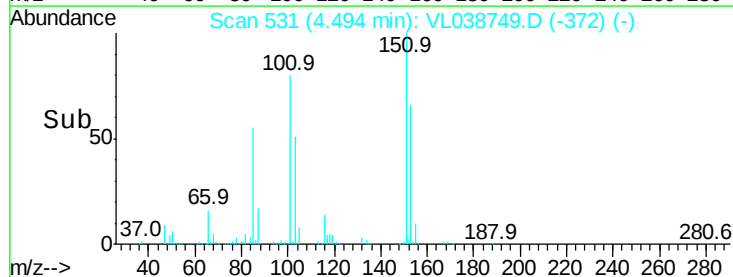
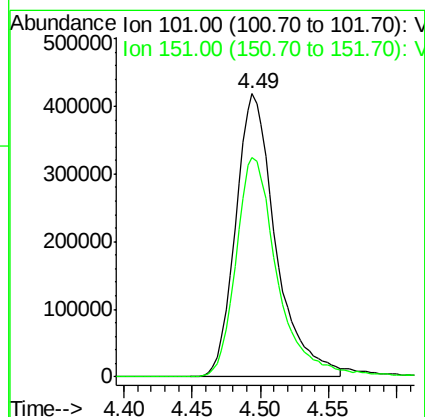
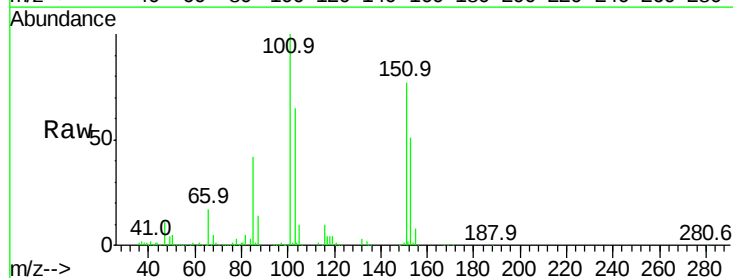
#11  
 Trichlorofluoromethane  
 Concen: 10.31 ppbv  
 RT: 3.96  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 24 Mar 2022 15:41

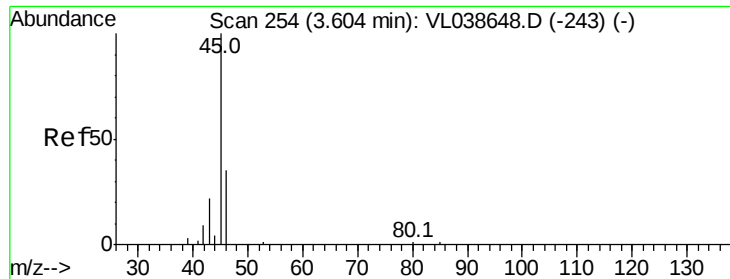
Tgt Ion:101 Resp: 1141756  
 Ion Ratio Lower Upper  
 101 100  
 103 63.5 51.9 77.9



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.05 ppbv  
 RT: 4.49 min Scan# 531  
 Delta R.T. 0.01 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

Tgt Ion:101 Resp: 856304  
 Ion Ratio Lower Upper  
 101 100  
 151 80.9 62.9 94.3





#13

Ethanol

Concen: 4.84 ppbv

RT: 3.62 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

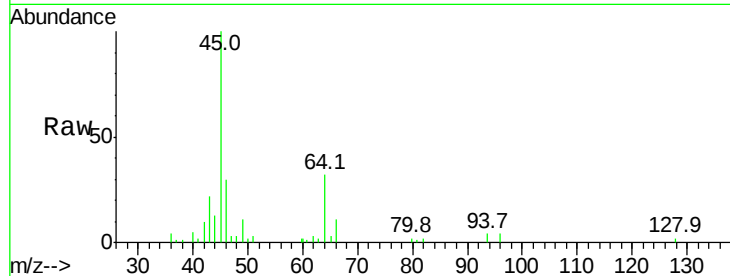
Acq: 24 Mar 2022 15:41

Tgt Ion: 45 Resp: 25429

Ion Ratio Lower Upper

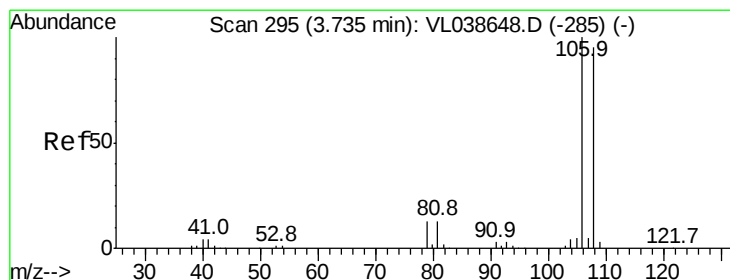
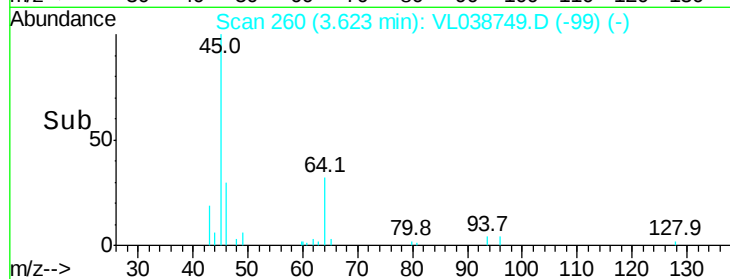
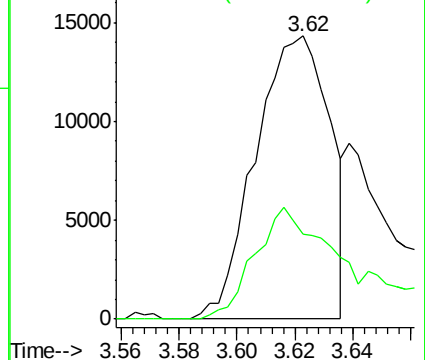
45 100

46 58.7 15.1 60.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 10.38 ppbv

RT: 3.75 min Scan# 300

Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

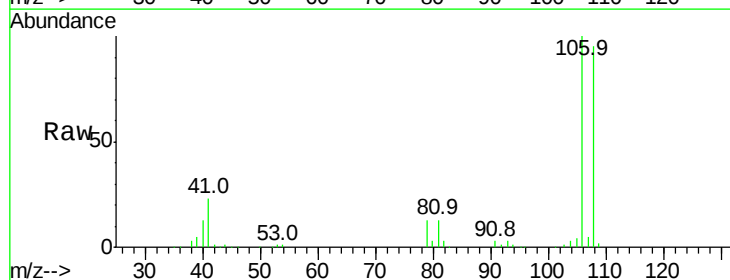
Tgt Ion: 108 Resp: 393379

Ion Ratio Lower Upper

108 100

106 107.6 88.3 132.5

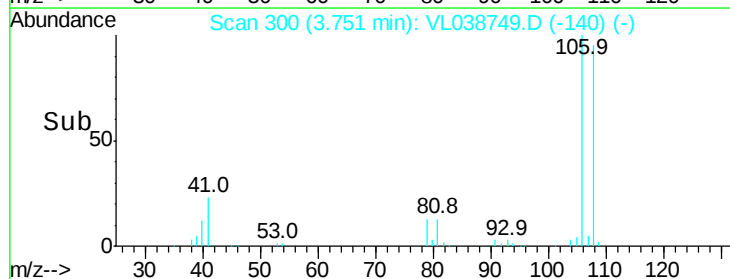
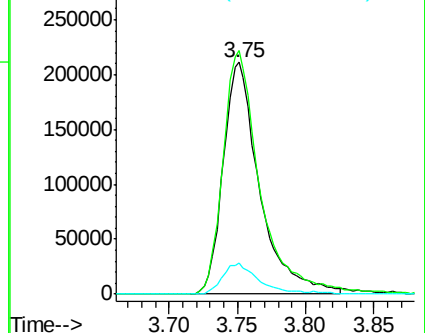
79 13.9 11.2 16.8

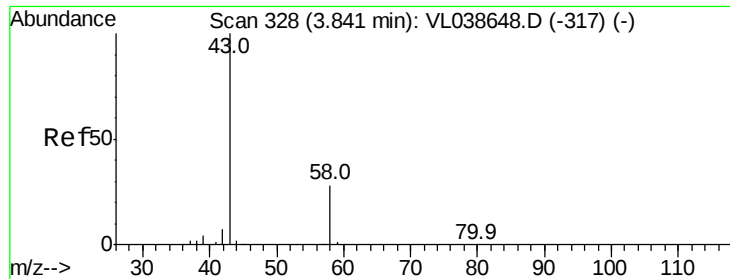


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 9.56 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

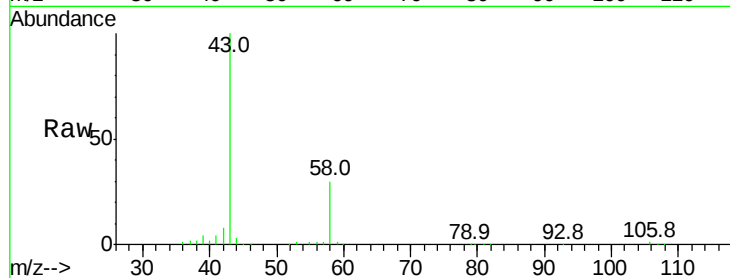
Acq: 24 Mar 2022 15:41 VSTDCCC010

Tgt Ion: 43 Resp: 769406

Ion Ratio Lower Upper

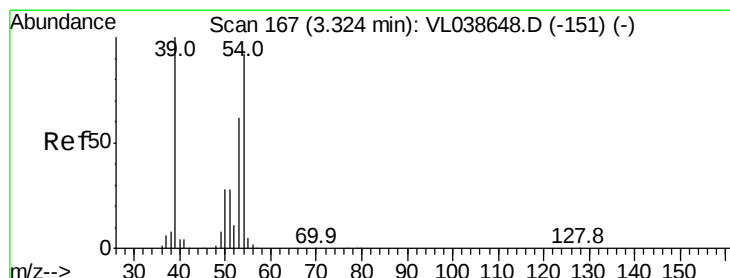
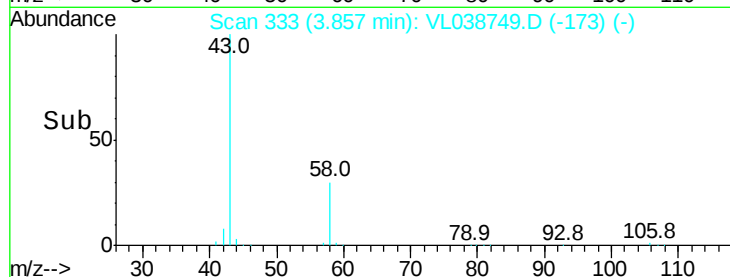
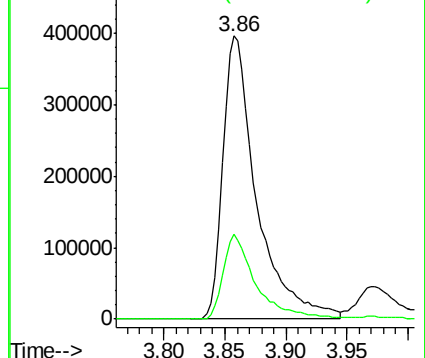
43 100

58 29.0 23.3 34.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.60 ppbv

RT: 3.34 min Scan# 172

Delta R.T. 0.02 min

Lab File: VL038749.D

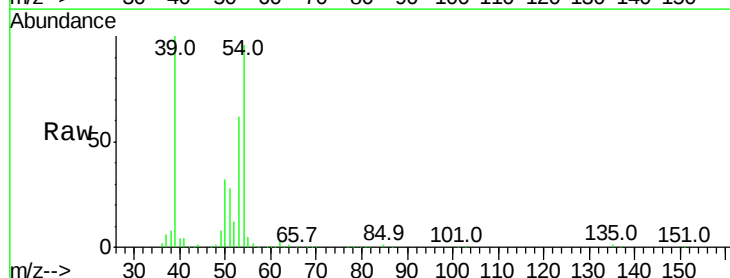
Acq: 24 Mar 2022 15:41

Tgt Ion: 39 Resp: 438568

Ion Ratio Lower Upper

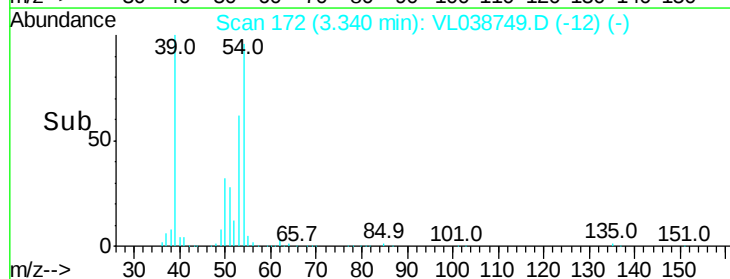
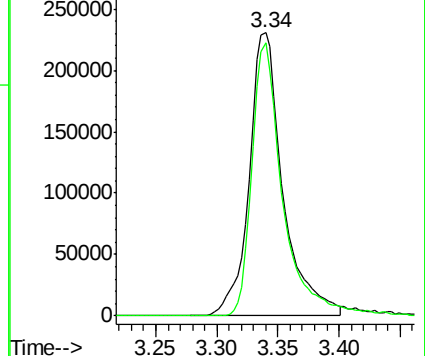
39 100

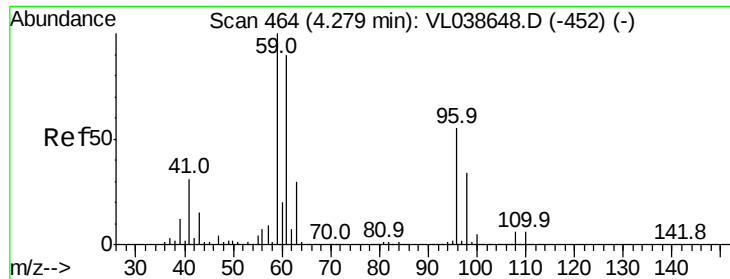
54 89.1 69.1 103.7



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 10.43 ppbv

RT: 4.29 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

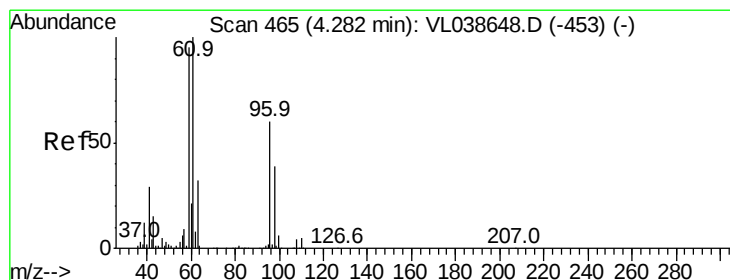
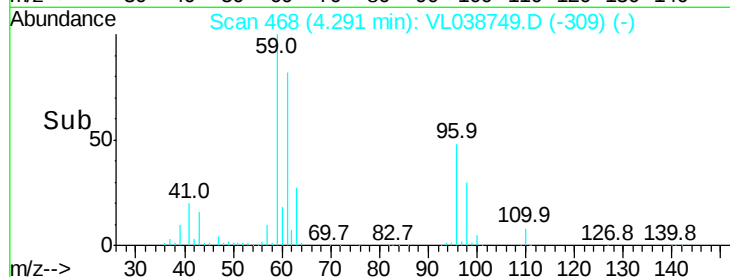
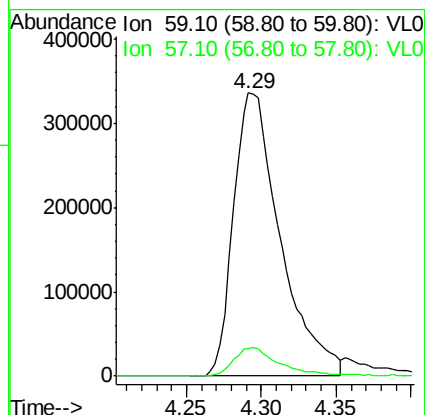
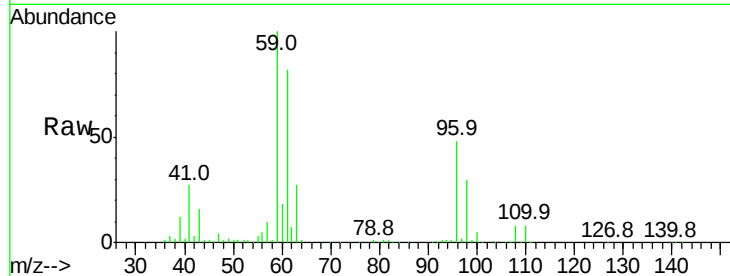
Acq: 24 Mar 2022 15:41 VSTDCCC010

Tgt Ion: 59 Resp: 733449

Ion Ratio Lower Upper

59 100

57 10.4 8.2 12.2



#18

1,1-Dichloroethene

Concen: 10.48 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

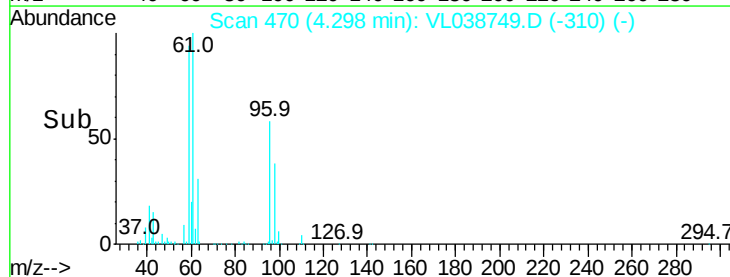
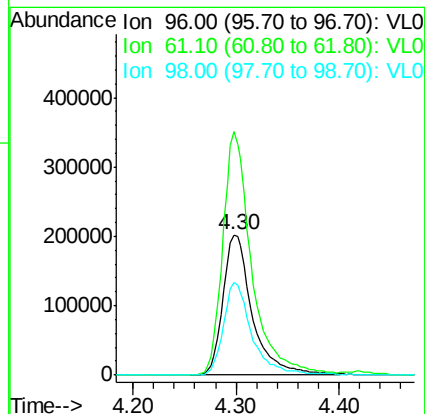
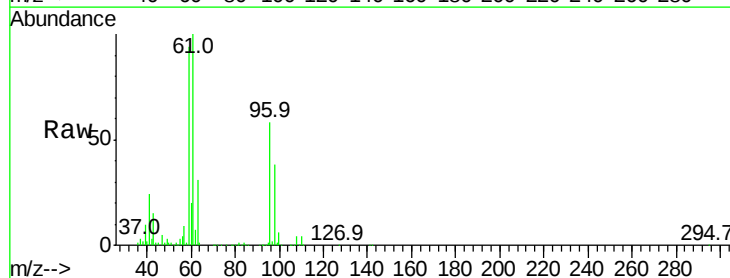
Tgt Ion: 96 Resp: 401100

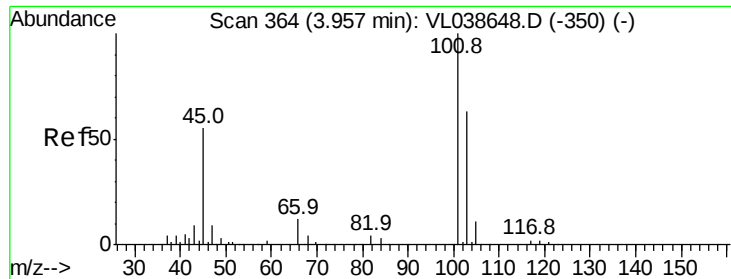
Ion Ratio Lower Upper

96 100

61 173.6 132.4 198.6

98 65.8 51.6 77.4





#19

Isopropyl Alcohol

Concen: 9.26 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

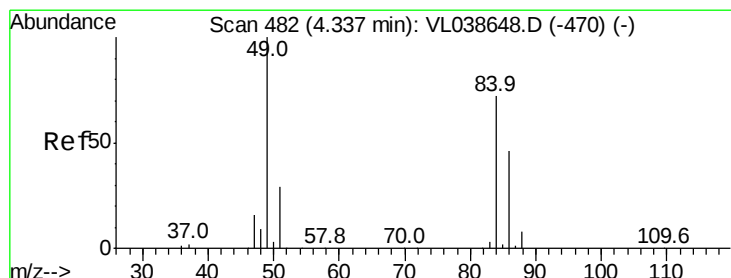
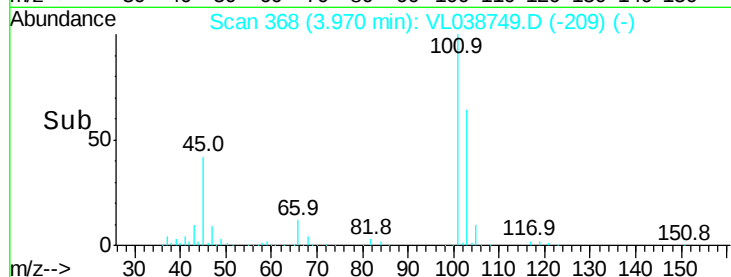
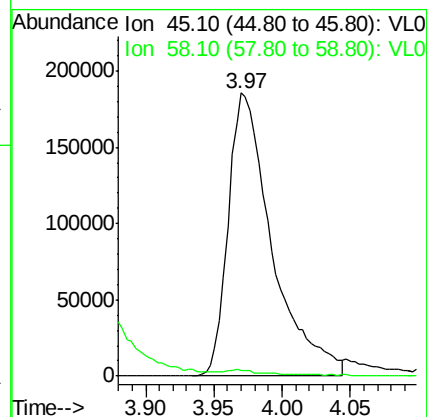
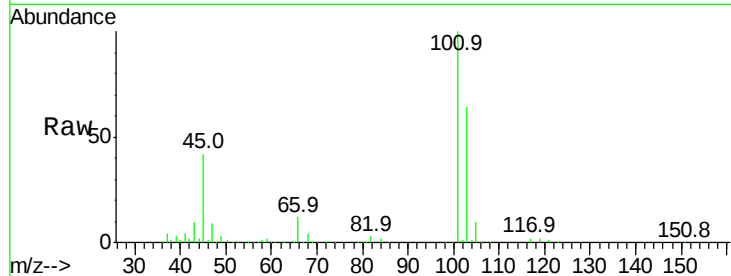
Acq: 24 Mar 2022 15:41 VSTDCCC010

Tgt Ion: 45 Resp: 413555

Ion Ratio Lower Upper

45 100

58 2.7 2.3 3.5



#20

Methylene Chloride

Concen: 9.30 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

Tgt Ion: 84 Resp: 315470

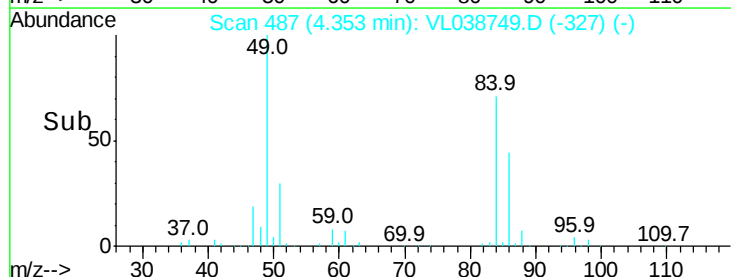
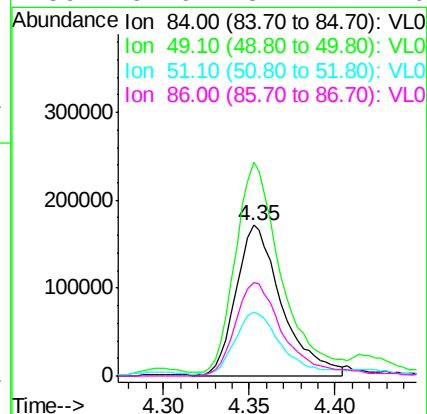
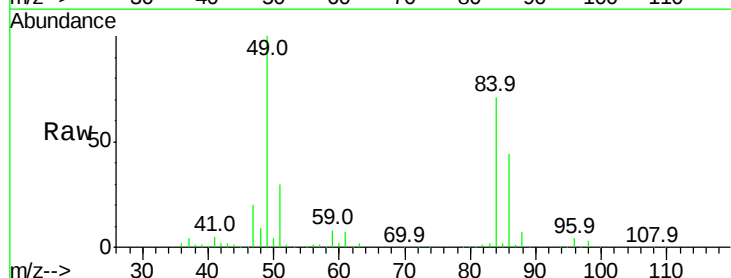
Ion Ratio Lower Upper

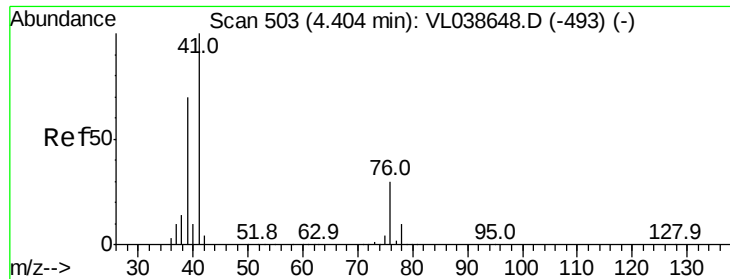
84 100

49 140.1 111.2 166.8

51 41.4 32.8 49.2

86 61.9 51.4 77.0





#21

Allyl Chloride

Concen: 10.51 ppbv

RT: 4.42 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 15:41 VSTDCCC010

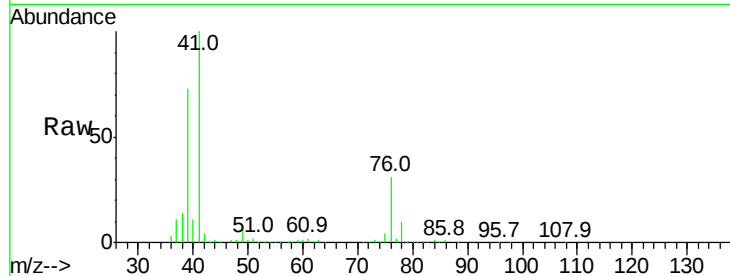
Tgt Ion: 41 Resp: 609136

Ion Ratio Lower Upper

41 100

76 31.9 25.0 37.6

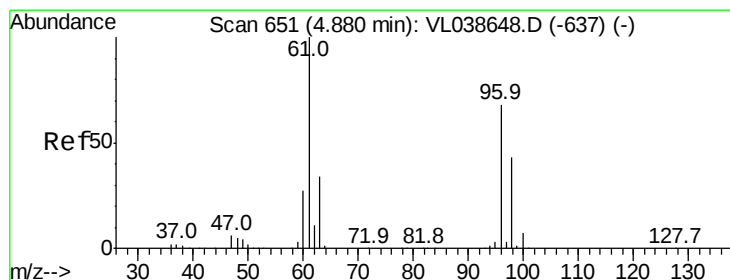
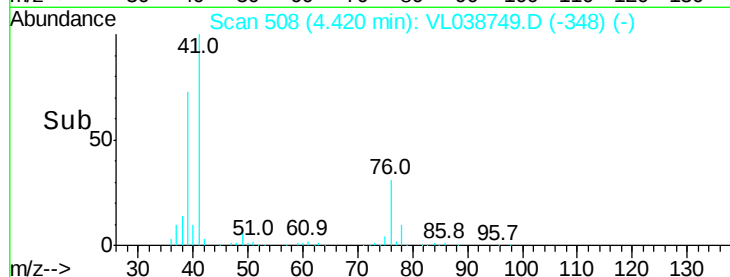
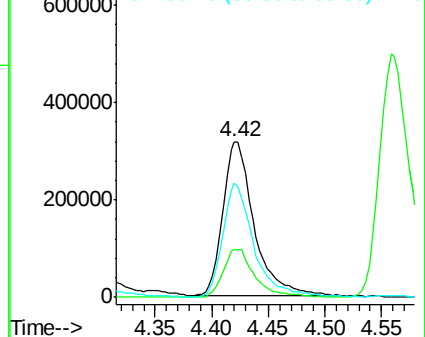
39 73.2 56.6 85.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 10.66 ppbv

RT: 4.90 min Scan# 656

Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

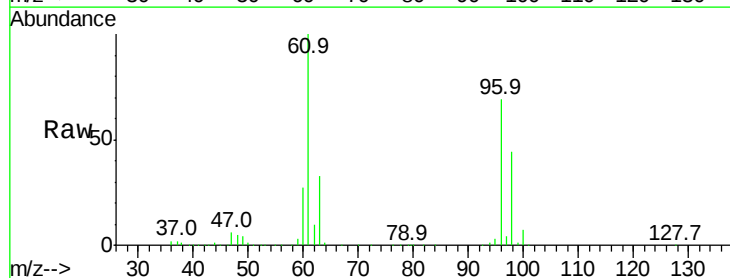
Tgt Ion: 96 Resp: 423495

Ion Ratio Lower Upper

96 100

61 145.6 118.3 177.5

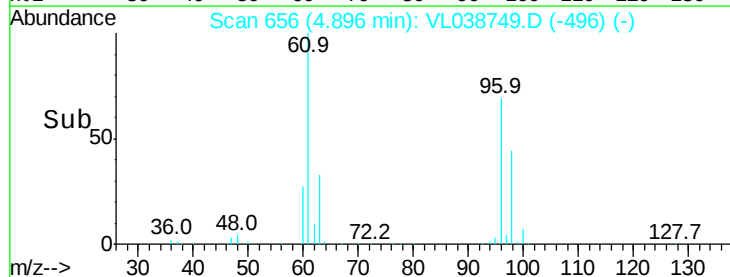
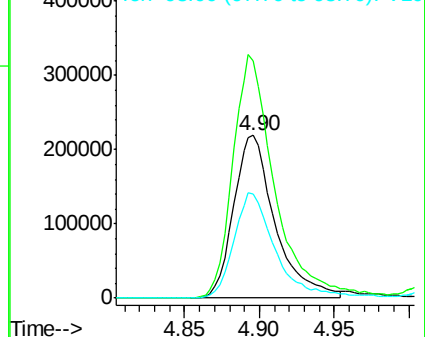
98 64.2 51.3 76.9

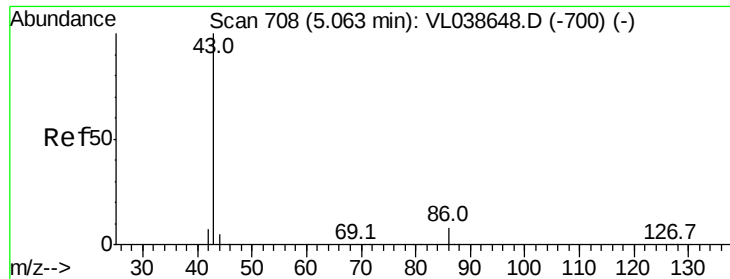


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

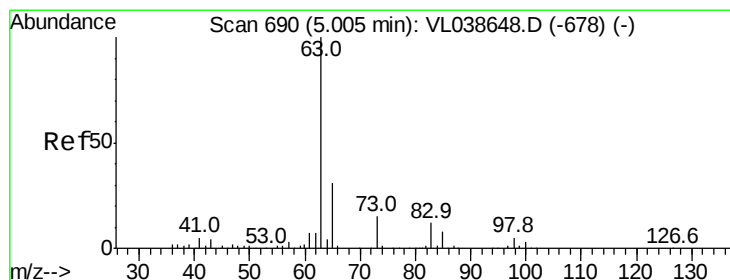
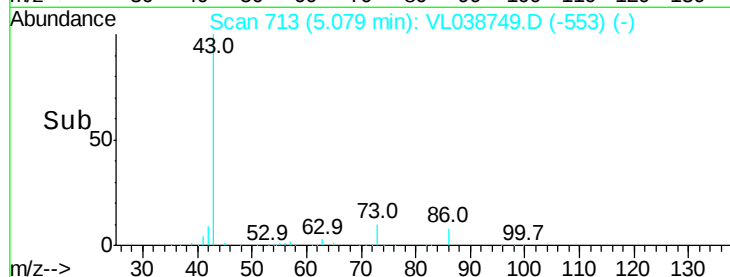
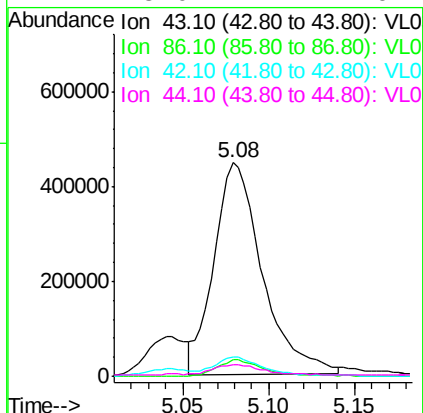
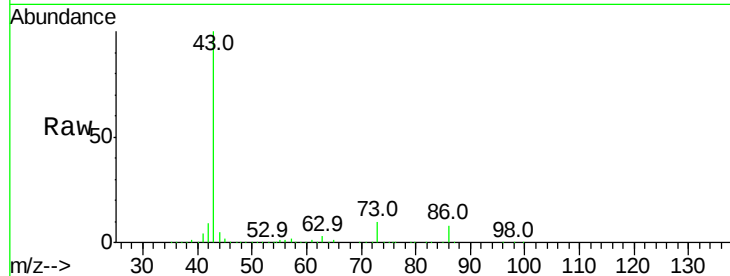
Ion 98.00 (97.70 to 98.70): VL0





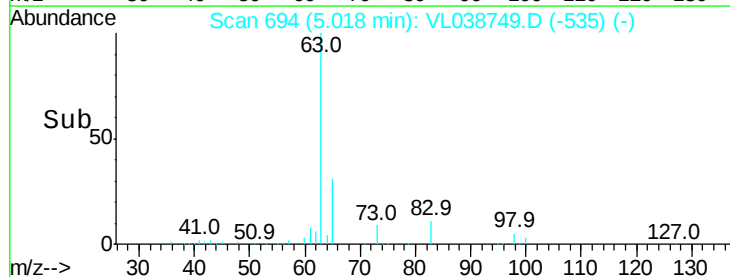
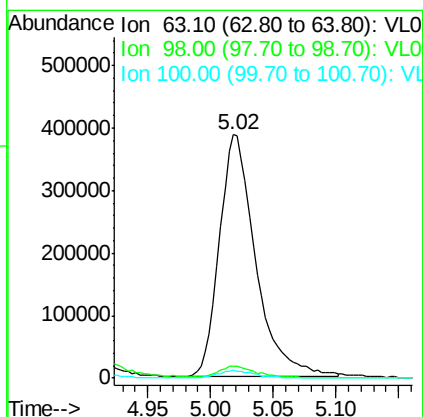
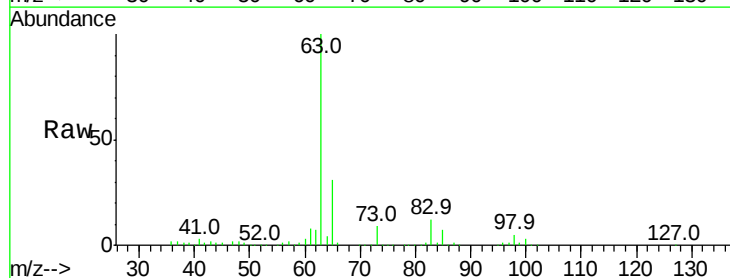
#23  
 Vinyl Acetate  
 Concen: 11.29 ppbv  
 RT: 5.08  
 Delta R.T. MSVOA.L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 24 Mar 2022 15:41

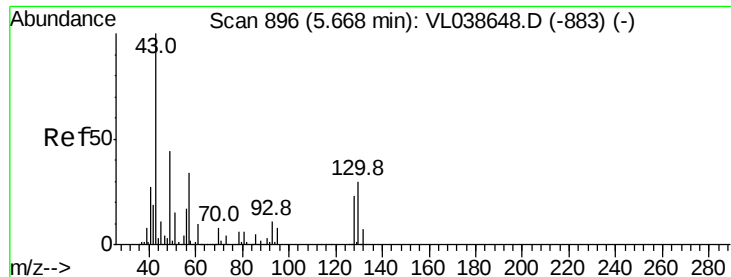
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 880216 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 7.9   | 5.6   | 8.4    |
| 42       | 8.5   | 6.8   | 10.2   |
| 44       | 5.0   | 4.2   | 6.2    |



#24  
 1,1-Dichloroethane  
 Concen: 10.14 ppbv  
 RT: 5.02 min Scan# 694  
 Delta R.T. 0.01 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 778583 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 5.0   | 2.5   | 7.5    |
| 100      | 3.1   | 1.4   | 4.2    |

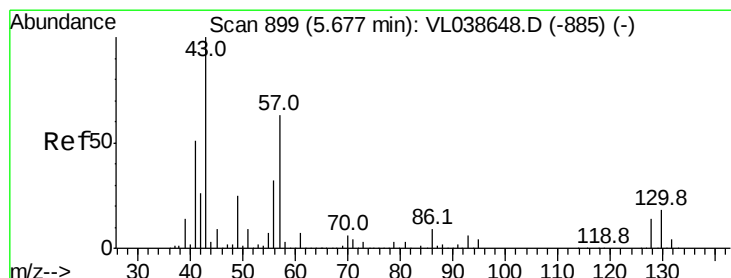
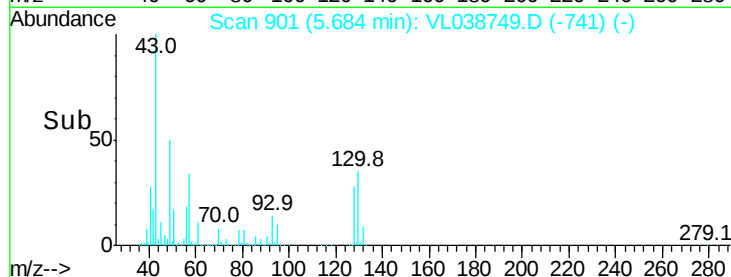
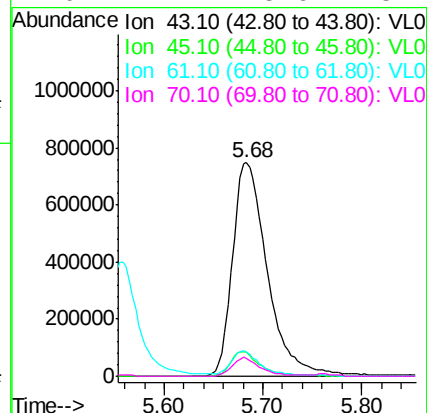
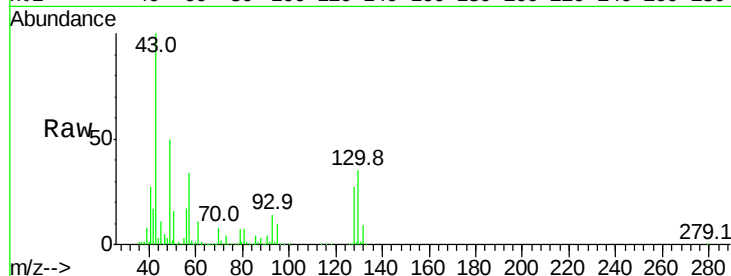




#25  
Ethyl Acetate  
Concen: 9.03 ppbv  
RT: 5.68  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
VSTDCCC010  
Acq: 24 Mar 2022 15:41

Tgt Ion: 43 Resp: 1829867

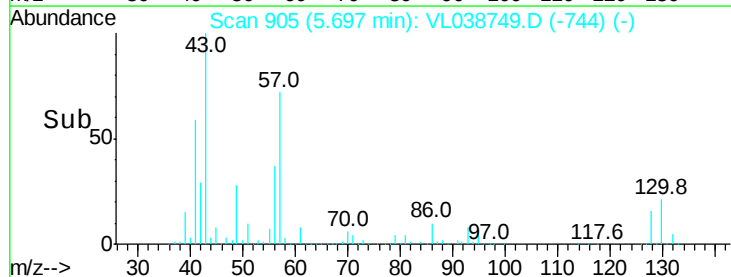
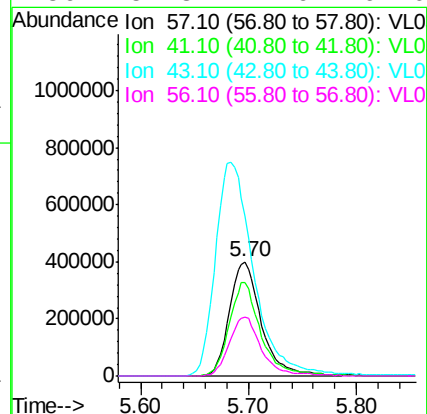
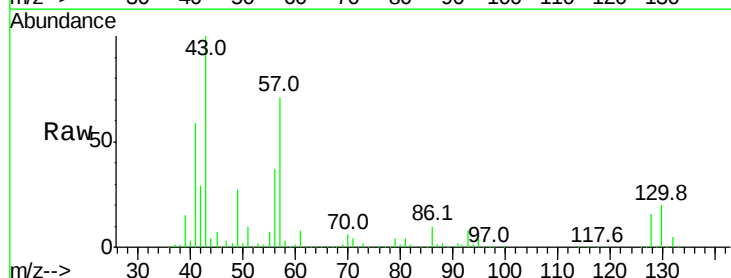
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.3  | 8.2   | 12.4  |
| 61  | 10.8  | 8.3   | 12.5  |
| 70  | 7.2   | 5.6   | 8.4   |

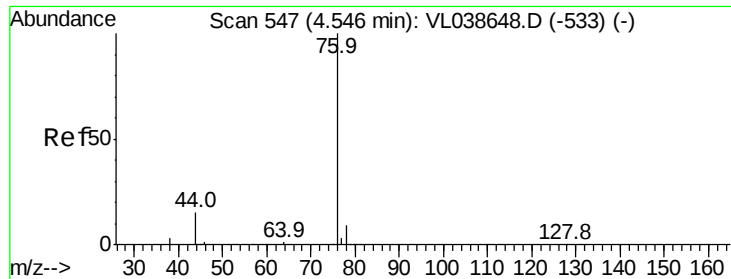


#26  
Hexane  
Concen: 9.10 ppbv  
RT: 5.70 min Scan# 905  
Delta R.T. 0.02 min  
Lab File: VL038749.D  
Acq: 24 Mar 2022 15:41

Tgt Ion: 57 Resp: 825530

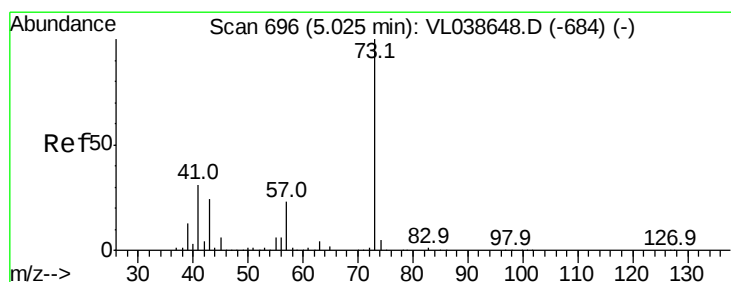
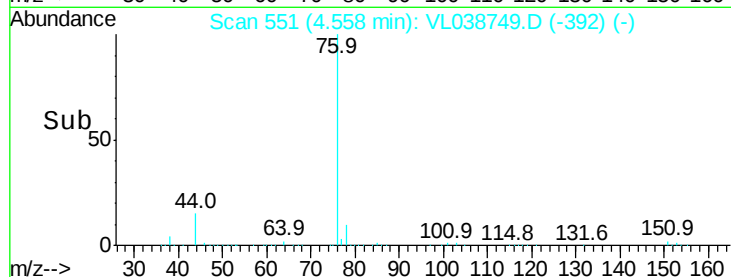
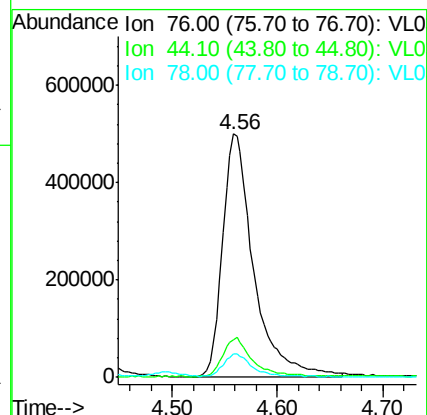
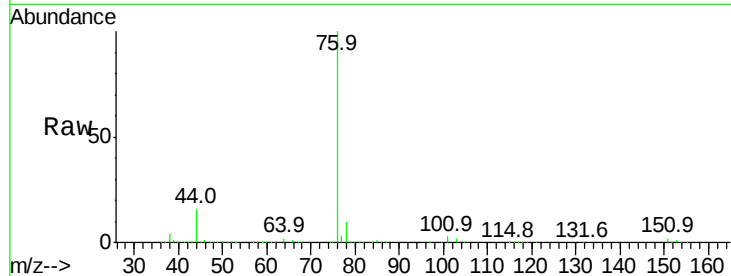
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 82.1  | 67.0  | 100.4 |
| 43  | 224.2 | 184.2 | 276.2 |
| 56  | 52.3  | 42.6  | 64.0  |





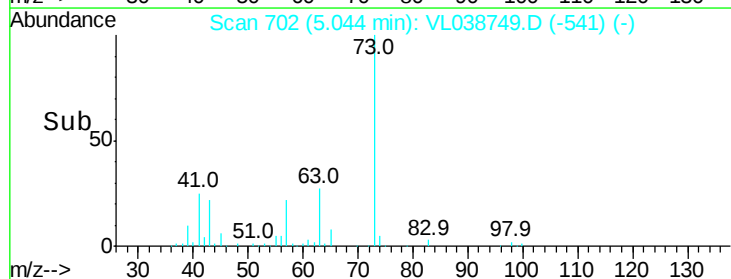
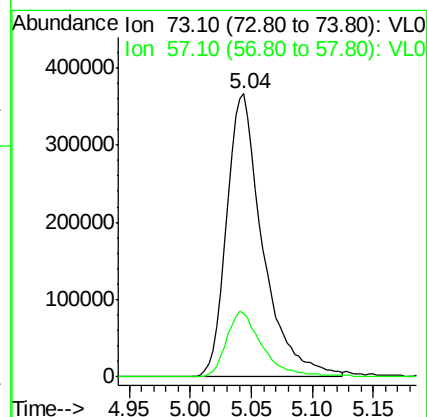
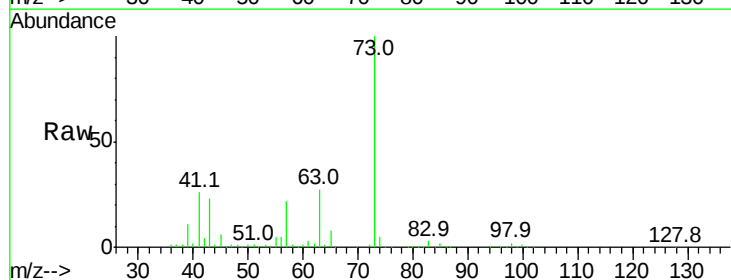
#27  
Carbon Disulfide  
Concen: 11.46 ppbv  
RT: 4.56  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId:  
VSTDCCC010  
Acq: 24 Mar 2022 15:41

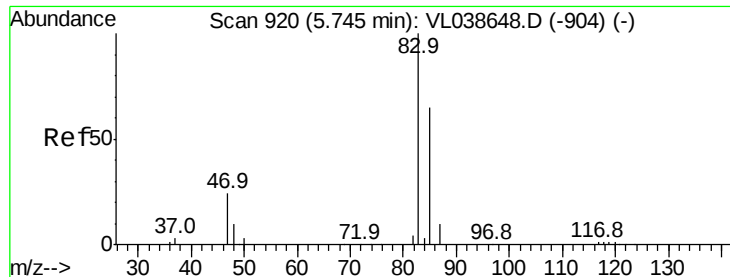
Tgt Ion: 76 Resp: 1020457  
Ion Ratio Lower Upper  
76 100  
44 15.7 12.4 18.6  
78 10.1 7.8 11.8



#28  
Methyl tert-Butyl Ether  
Concen: 11.25 ppbv  
RT: 5.04 min Scan# 702  
Delta R.T. 0.02 min  
Lab File: VL038749.D  
Acq: 24 Mar 2022 15:41

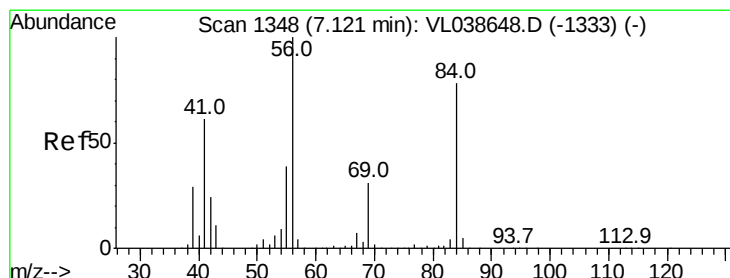
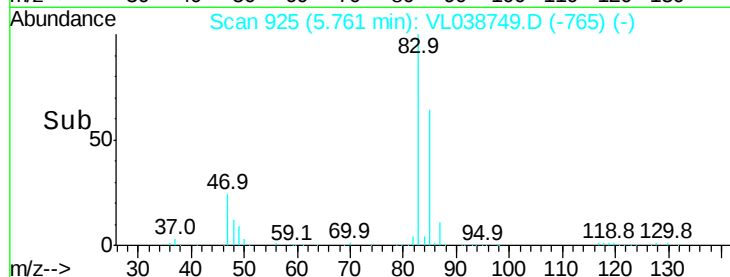
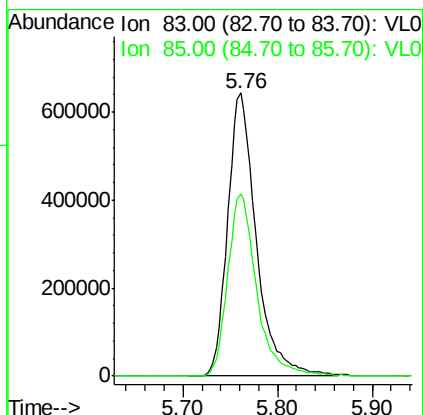
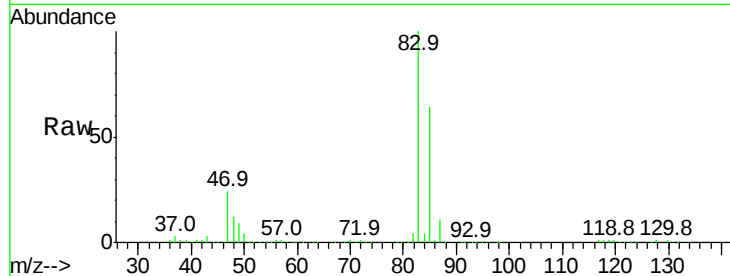
Tgt Ion: 73 Resp: 760665  
Ion Ratio Lower Upper  
73 100  
57 23.5 19.2 28.8





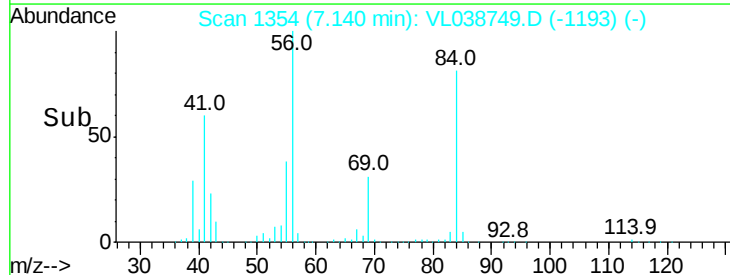
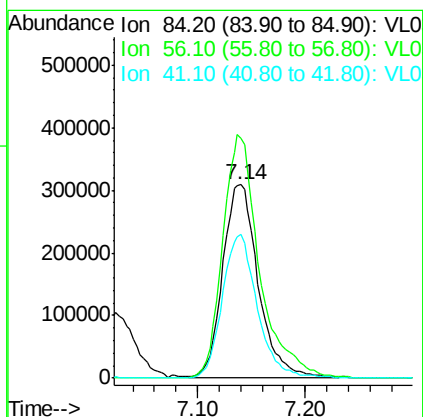
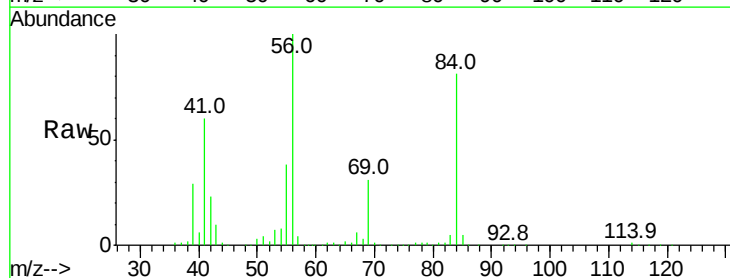
#29  
Chloroform  
Concen: 9.32 ppbv  
RT: 5.76  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 24 Mar 2022 15:41

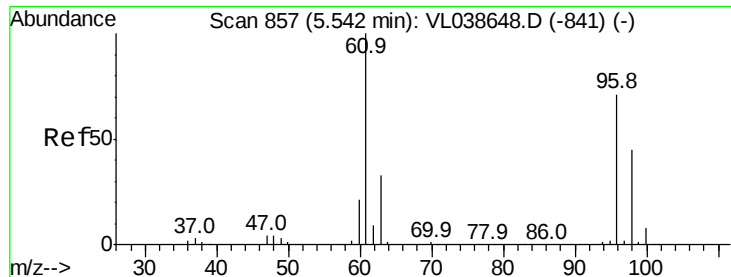
Tgt Ion: 83 Resp: 1354854  
Ion Ratio Lower Upper  
83 100  
85 63.9 51.7 77.5



#30  
Cyclohexane  
Concen: 8.95 ppbv  
RT: 7.14 min Scan# 1354  
Delta R.T. 0.02 min  
Lab File: VL038749.D  
Acq: 24 Mar 2022 15:41

Tgt Ion: 84 Resp: 706101  
Ion Ratio Lower Upper  
84 100  
56 131.3 108.2 162.4  
41 73.8 61.8 92.6





#31

cis-1,2-Dichloroethene

Concen: 9.69 ppbv

RT: 5.56 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 24 Mar 2022 15:41 VSTDCCC010

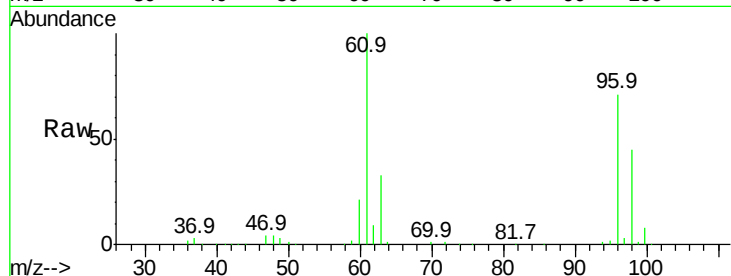
Tgt Ion: 61 Resp: 827277

Ion Ratio Lower Upper

61 100

96 70.9 56.6 84.8

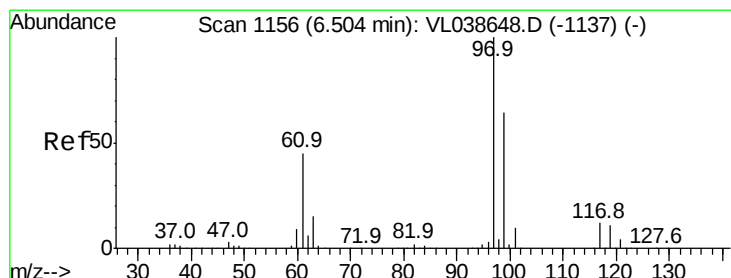
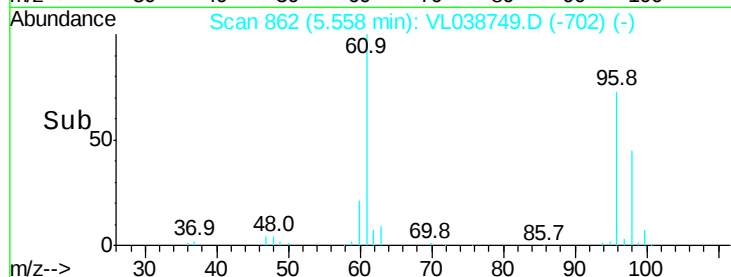
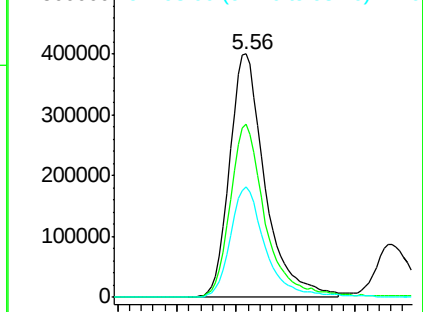
98 45.2 36.3 54.5



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: 9.78 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

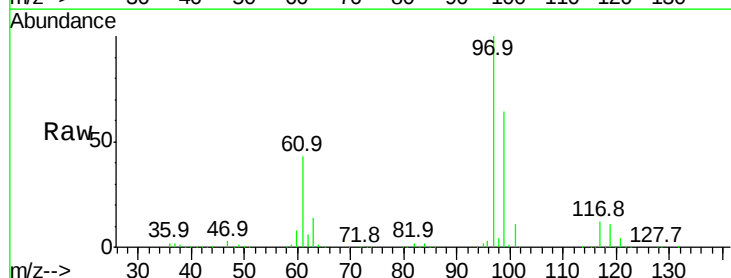
Tgt Ion: 97 Resp: 1370838

Ion Ratio Lower Upper

97 100

99 64.5 51.8 77.8

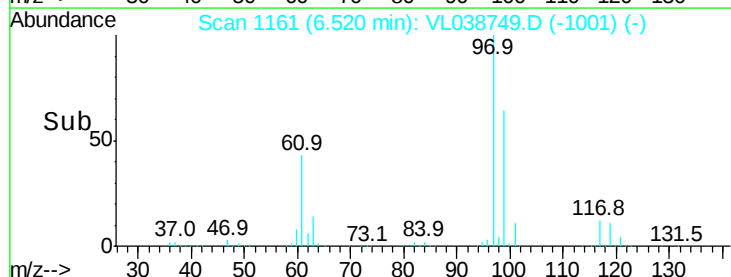
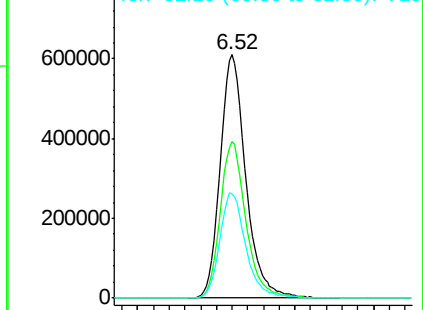
61 44.2 36.7 55.1

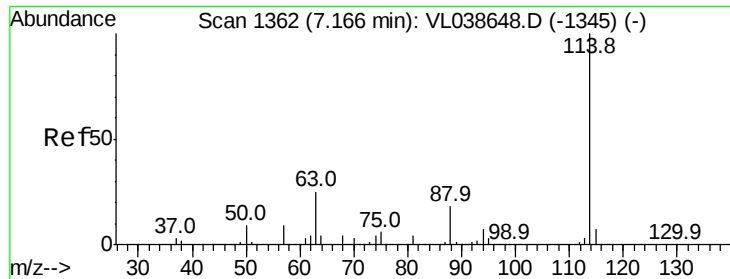


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

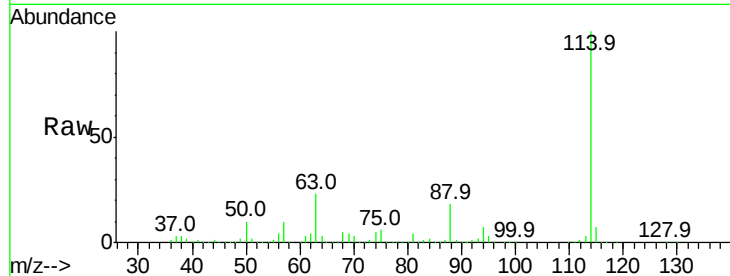
Ion 61.10 (60.80 to 61.80): VL0



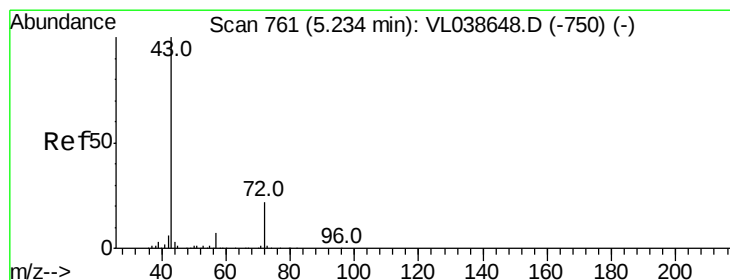
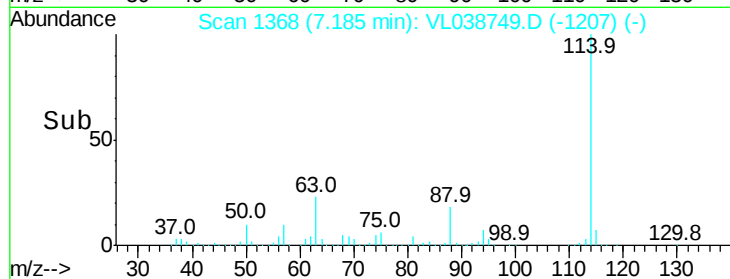
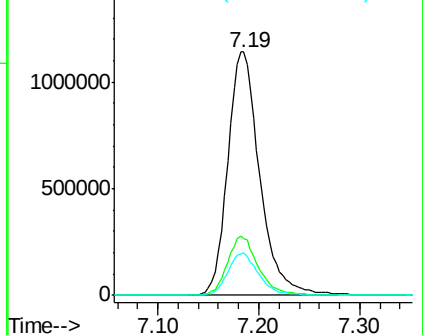


#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 7.19  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010  
 Acq: 24 Mar 2022 15:41

Tgt Ion:114 Resp: 2519240  
 Ion Ratio Lower Upper  
 114 100  
 63 23.8 19.4 29.0  
 88 17.0 13.9 20.9

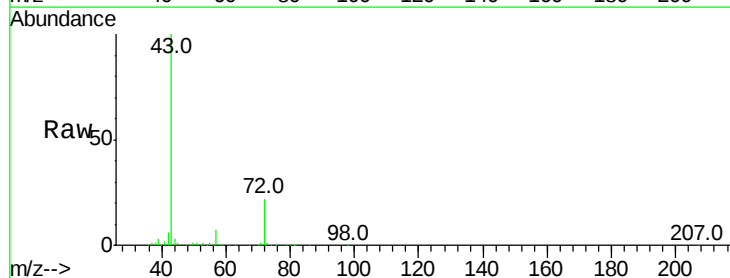


Abundance Ion 114.10 (113.80 to 114.80): V  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

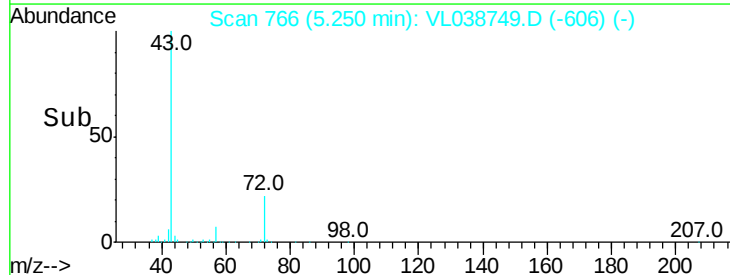
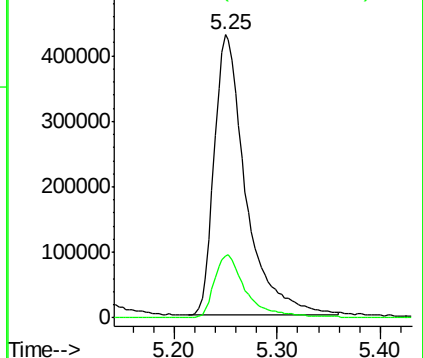


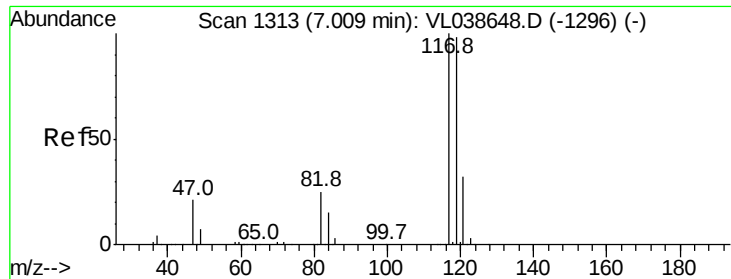
#34  
 2-Butanone  
 Concen: 9.15 ppbv  
 RT: 5.25 min Scan# 766  
 Delta R.T. 0.02 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

Tgt Ion: 43 Resp: 912771  
 Ion Ratio Lower Upper  
 43 100  
 72 23.2 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0

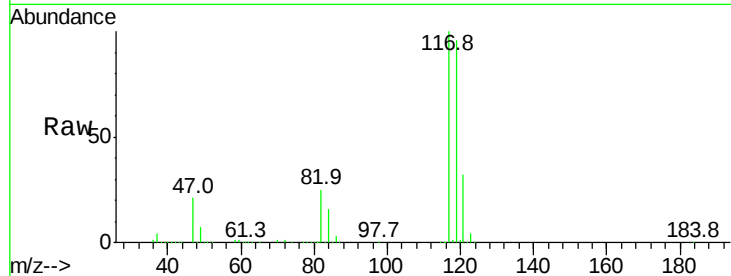




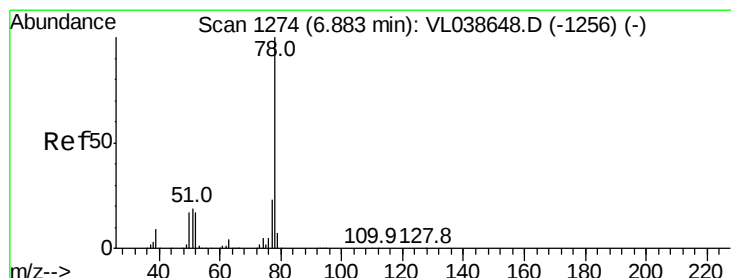
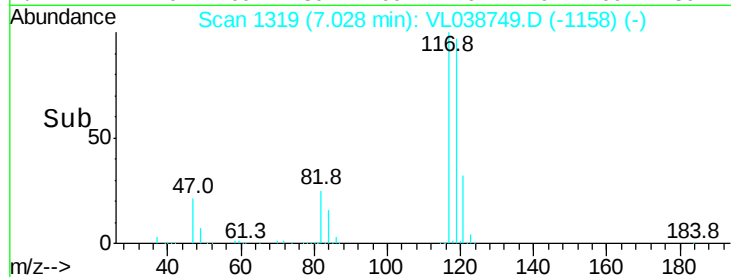
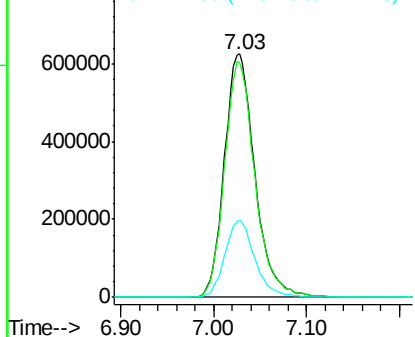
#35  
Carbon Tetrachloride  
Concen: 9.78 ppbv  
RT: 7.03  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 24 Mar 2022 15:41

Tgt Ion: 117 Resp: 1428884

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 96.2  | 78.1  | 117.1 |
| 121 | 31.8  | 25.8  | 38.6  |



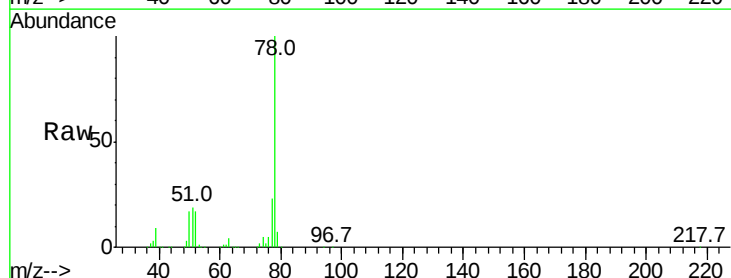
Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



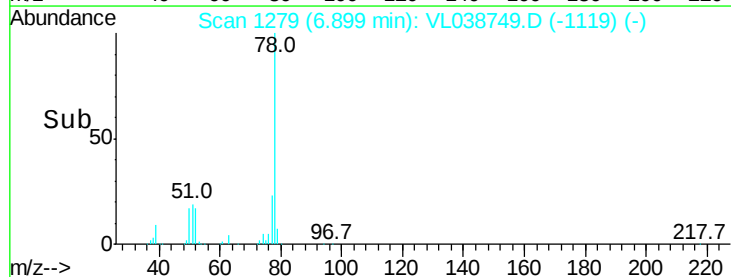
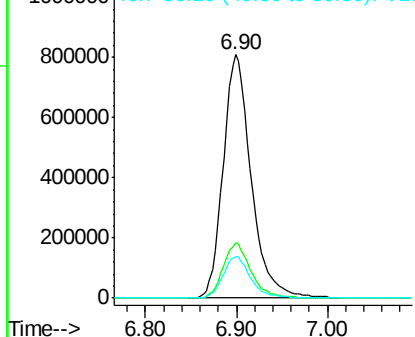
#36  
Benzene  
Concen: 8.90 ppbv  
RT: 6.90 min Scan# 1279  
Delta R.T. 0.02 min  
Lab File: VL038749.D  
Acq: 24 Mar 2022 15:41

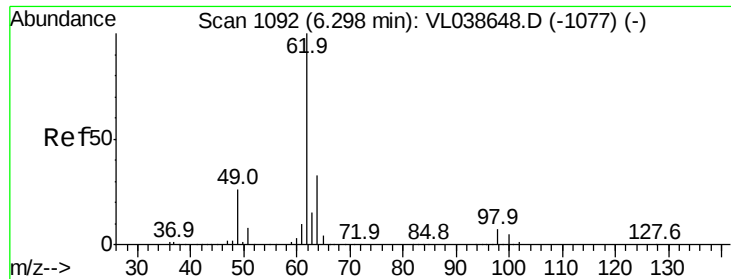
Tgt Ion: 78 Resp: 1730303

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 22.7  | 18.1  | 27.1  |
| 50  | 16.9  | 13.6  | 20.4  |



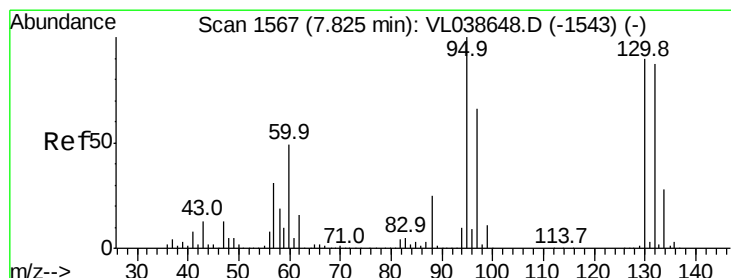
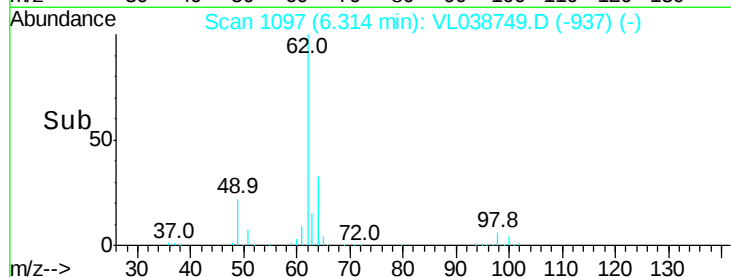
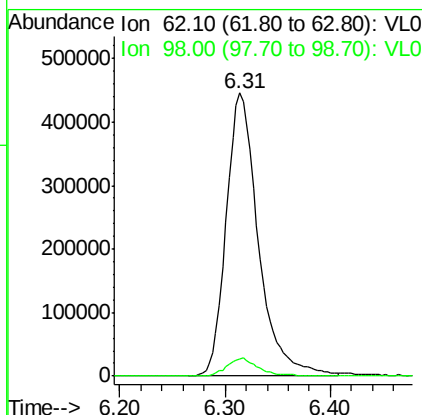
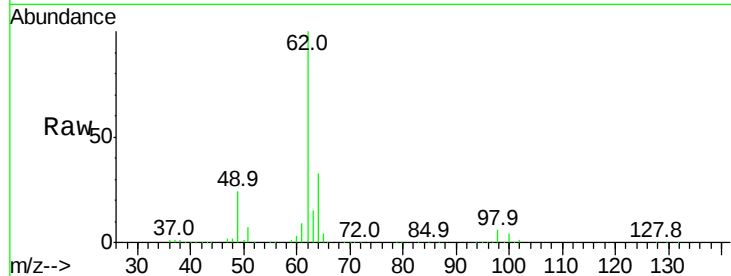
Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0





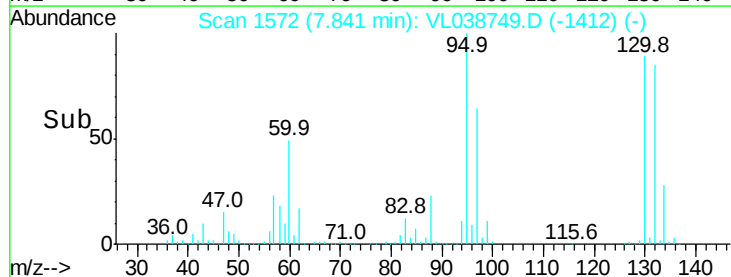
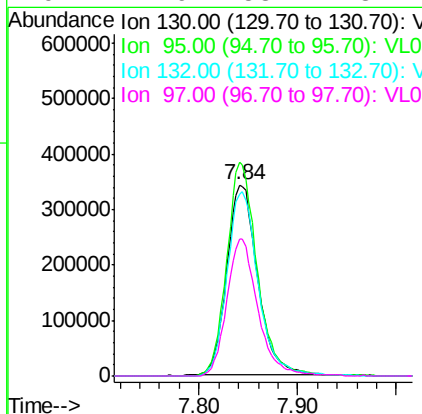
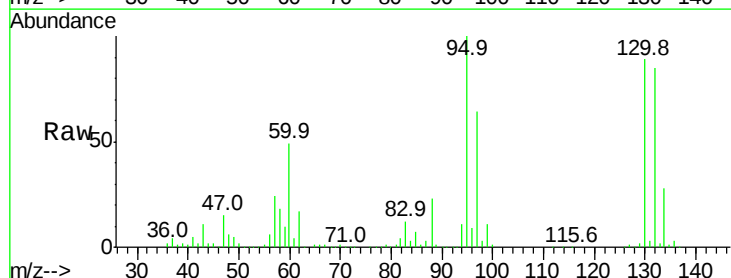
#37  
 1,2-Dichloroethane  
 Concen: 9.54 ppbv  
 RT: 6.31  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 24 Mar 2022 15:41

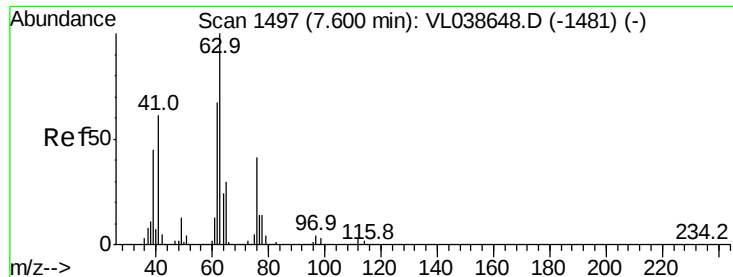
Tgt Ion: 62 Resp: 943817  
 Ion Ratio Lower Upper  
 62 100  
 98 6.5 5.6 8.4



#38  
 Trichloroethene  
 Concen: 9.25 ppbv  
 RT: 7.84 min Scan# 1572  
 Delta R.T. 0.02 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

Tgt Ion: 130 Resp: 753097  
 Ion Ratio Lower Upper  
 130 100  
 95 112.1 88.9 133.3  
 132 95.4 77.4 116.0  
 97 71.9 58.2 87.4





#39

1,2-Dichloropropane

Concen: 8.53 ppbv

RT: 7.62

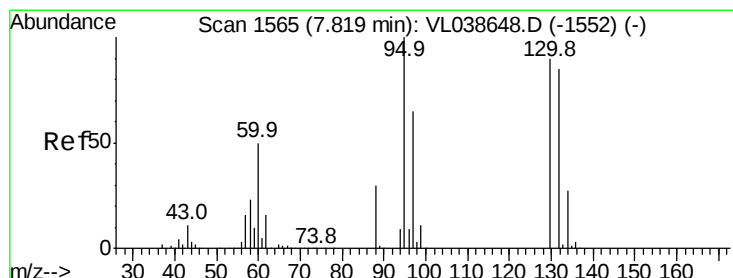
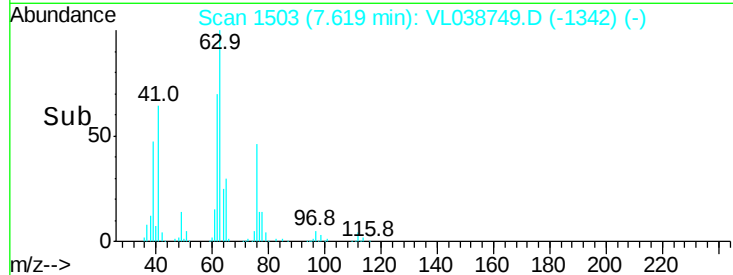
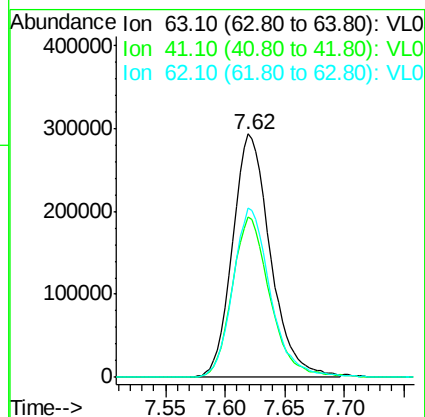
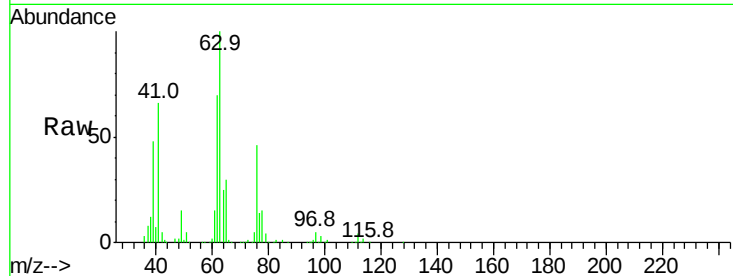
Instrument: MSVOA\_1

Delta R.T.:

Lab File: ClientSampleId:

Acq: 24 Mar 2022 15:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 648420 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 41       | 66.0  | 49.0  | 73.6   |
| 62       | 69.4  | 53.9  | 80.9   |



#40

1,4-Dioxane

Concen: 8.47 ppbv

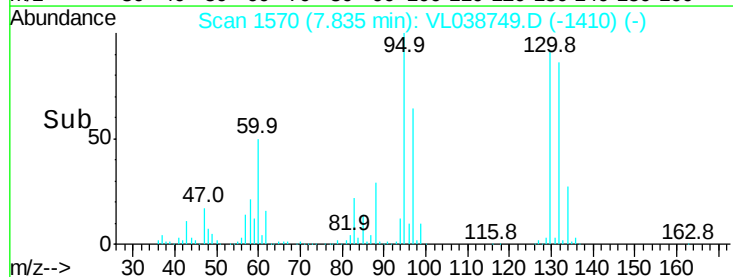
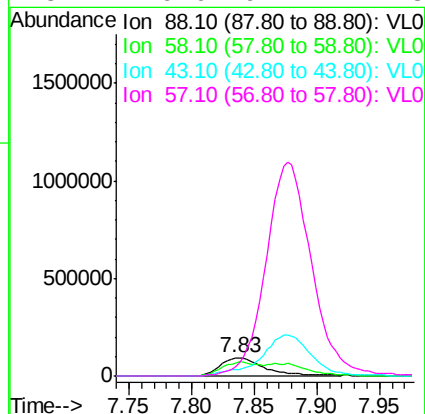
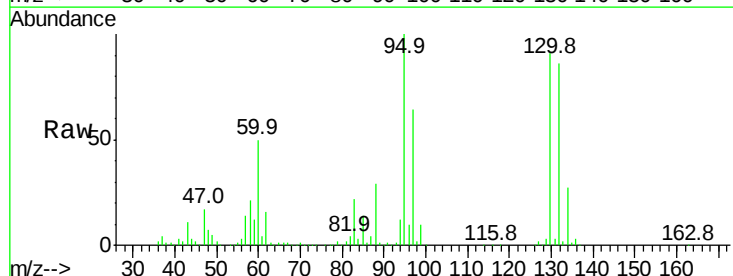
RT: 7.83 min Scan# 1570

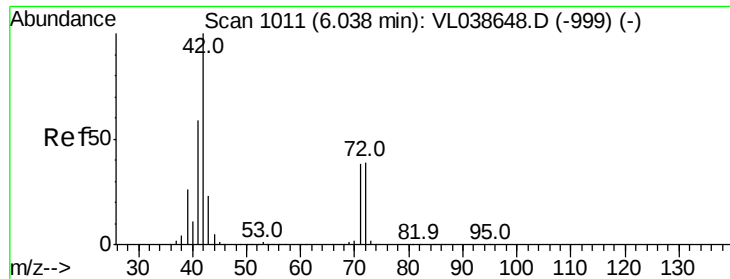
Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

|          |        |       |        |
|----------|--------|-------|--------|
| Tgt Ion: | 88     | Resp: | 223634 |
| Ion      | Ratio  | Lower | Upper  |
| 88       | 100    |       |        |
| 58       | 132.7  | 105.6 | 158.4  |
| 43       | 263.6  | 201.9 | 302.9  |
| 57       | 1249.0 | 942.1 | 1413.1 |





#41

Tetrahydrofuran

Concen: 8.77 ppbv

RT: 6.05 Instrument: MSVOA\_1

Delta R.T. 0.02 min

Lab File: ClientSampleId: VSTDCCC010

Acq: 24 Mar 2022 15:41

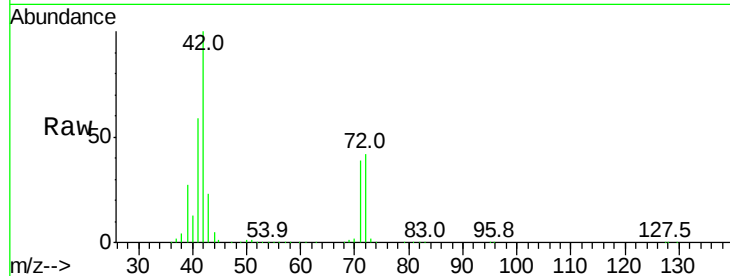
Tgt Ion: 42 Resp: 650941

Ion Ratio Lower Upper

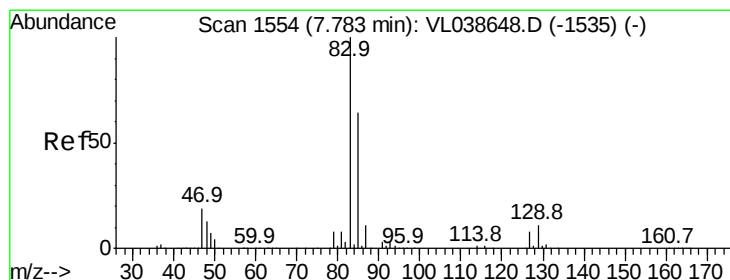
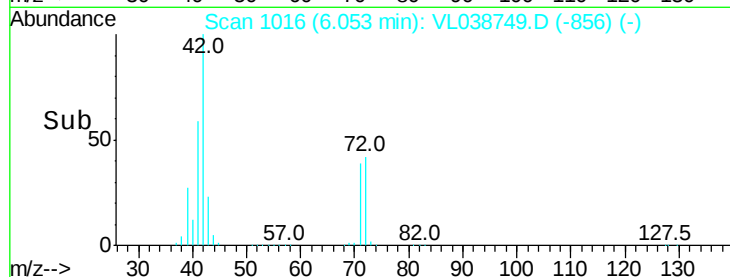
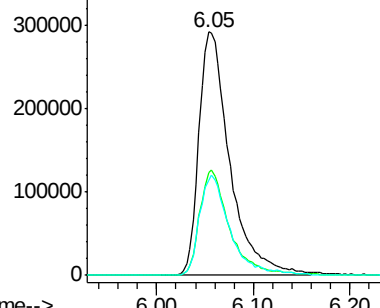
42 100

72 42.2 32.5 48.7

71 41.0 31.4 47.2



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: 9.79 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

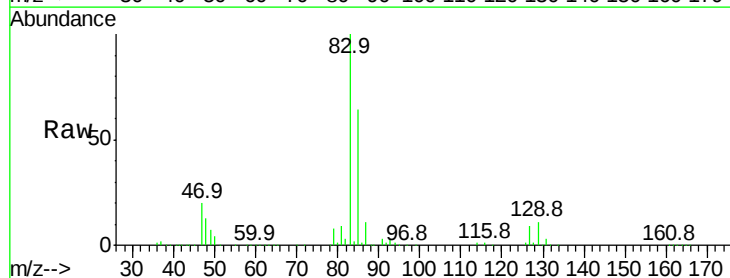
Tgt Ion: 83 Resp: 1451337

Ion Ratio Lower Upper

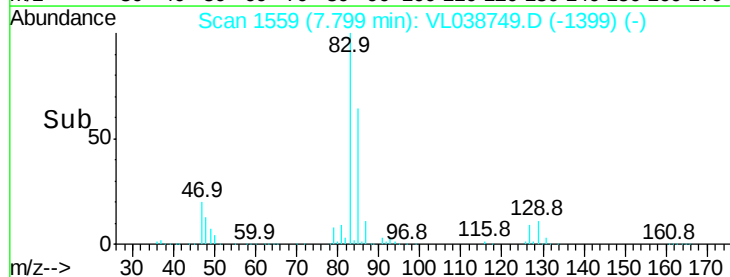
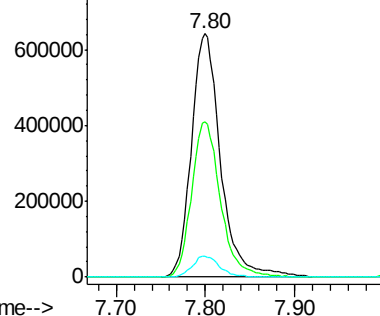
83 100

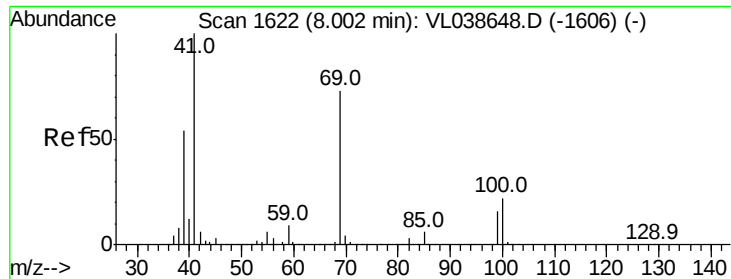
85 63.7 51.1 76.7

127 8.6 6.5 9.7



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: 9.63 ppbv

RT: 8.02

Instrument: MSVOA\_1

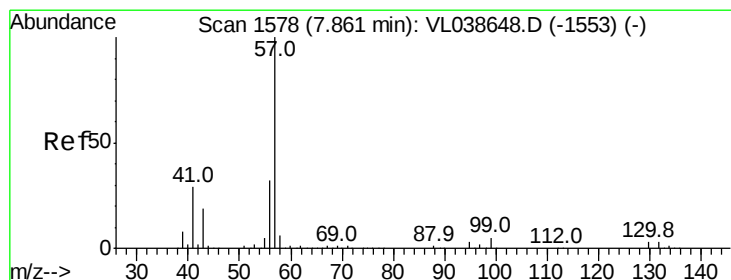
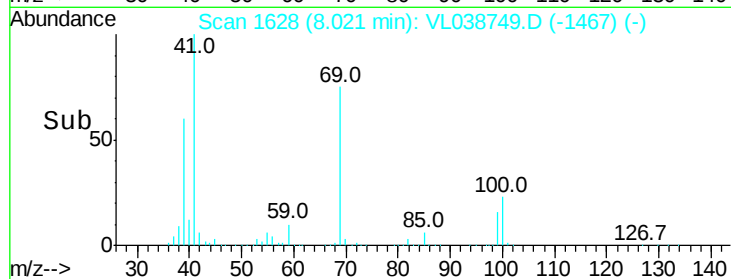
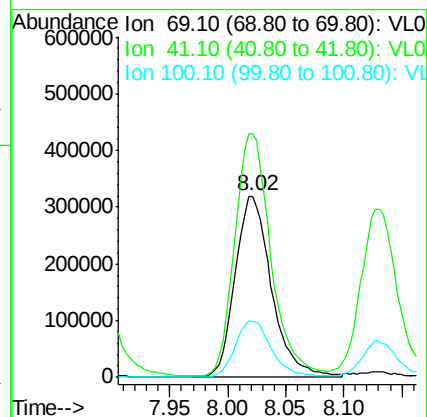
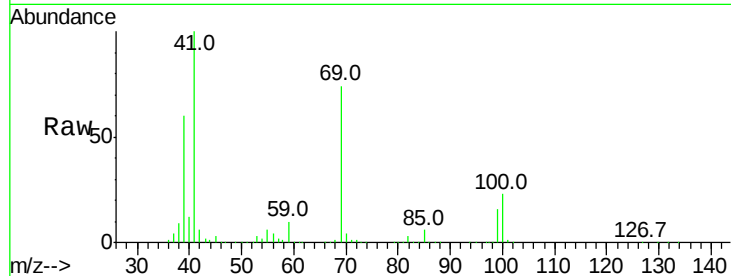
Delta R.T. 0.02

Lab File: ClientSampleId: VSTDCCC010

Acq: 24 Mar 2022 15:41

Tgt Ion: 69 Resp: 695370

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 134.0 | 110.3 | 165.5 |
| 100 | 31.2  | 24.8  | 37.2  |



#44

2,2,4-Trimethylpentane

Concen: 8.55 ppbv

RT: 7.88 min Scan# 1583

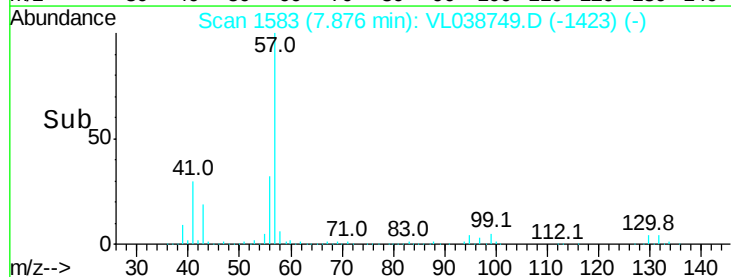
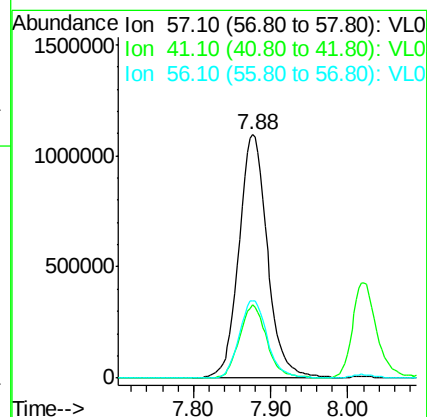
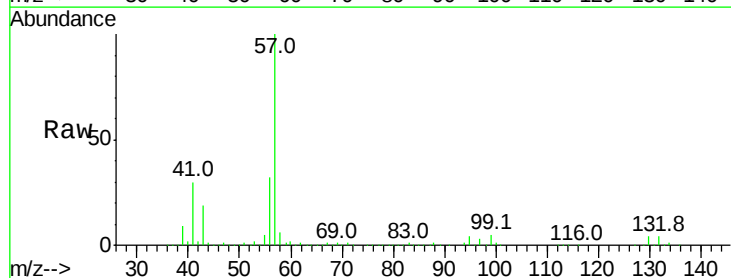
Delta R.T. 0.02 min

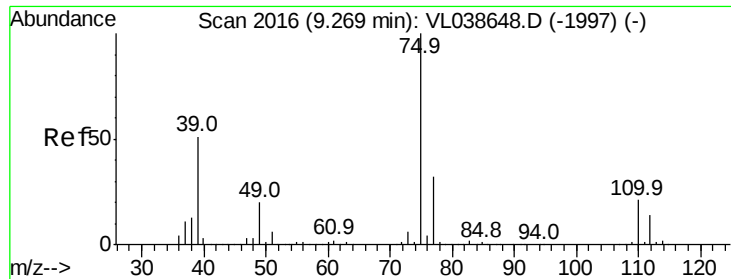
Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

Tgt Ion: 57 Resp: 2792525

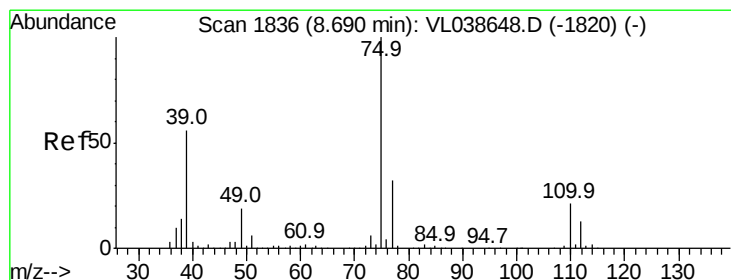
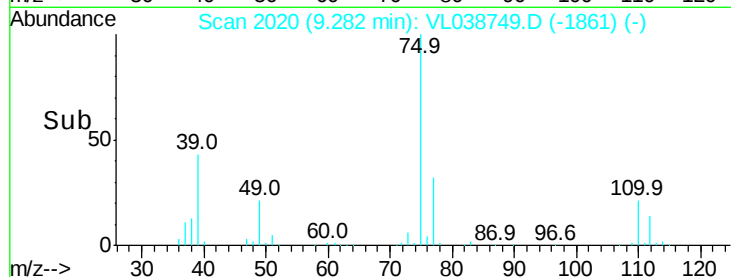
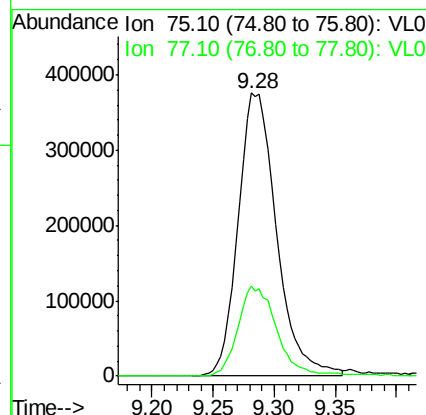
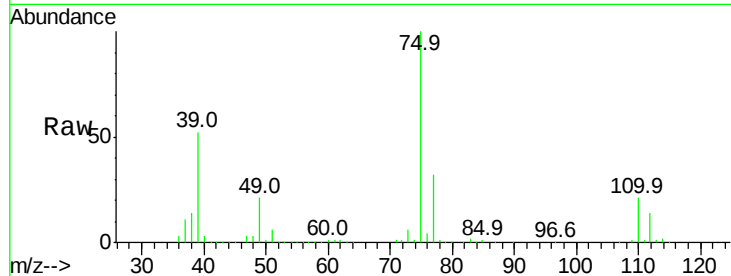
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 28.8  | 23.0  | 34.4  |
| 56  | 31.2  | 25.3  | 37.9  |





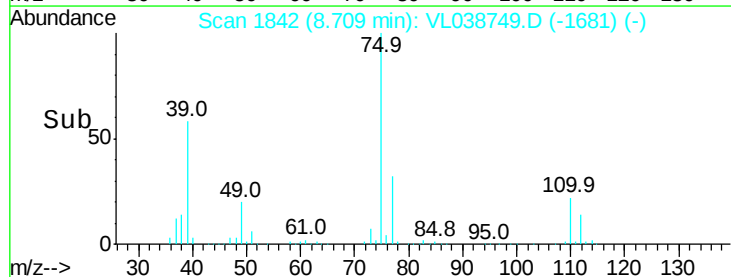
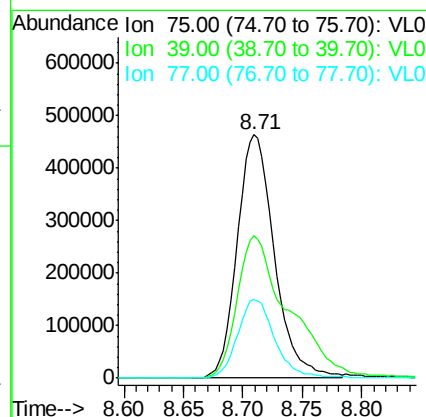
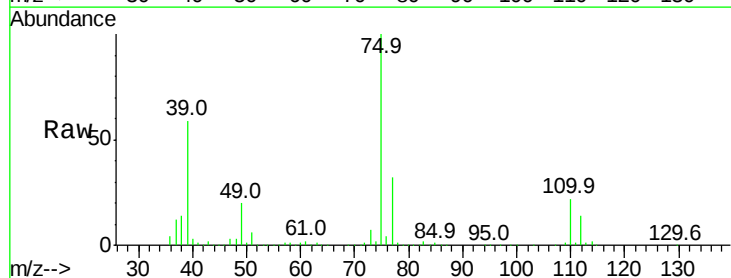
#45  
 t-1,3-Dichloropropene  
 Concen: 11.16 ppbv  
 RT: 9.28  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 ClientSampleId:  
 Lab File: VSTDCCC010  
 Acq: 24 Mar 2022 15:41

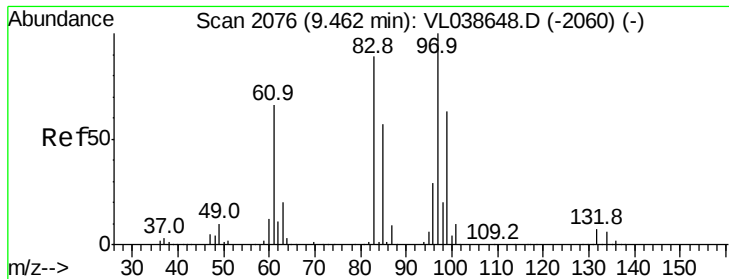
Tgt Ion: 75 Resp: 819328  
 Ion Ratio Lower Upper  
 75 100  
 77 31.8 25.5 38.3



#46  
 cis-1,3-Dichloropropene  
 Concen: 10.13 ppbv  
 RT: 8.71 min Scan# 1842  
 Delta R.T. 0.02 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

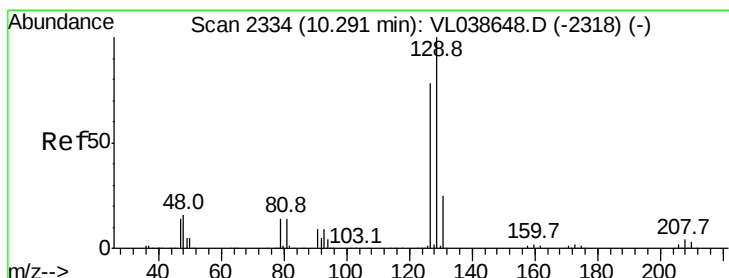
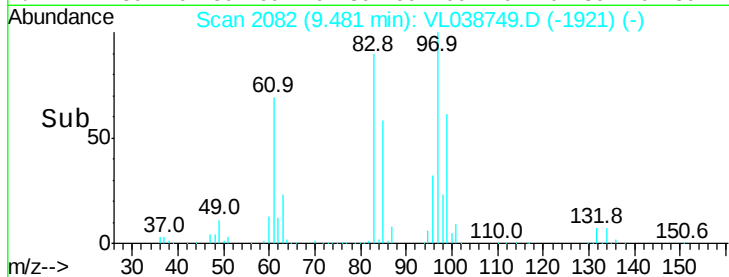
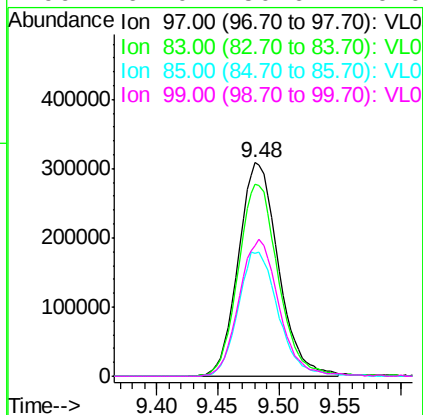
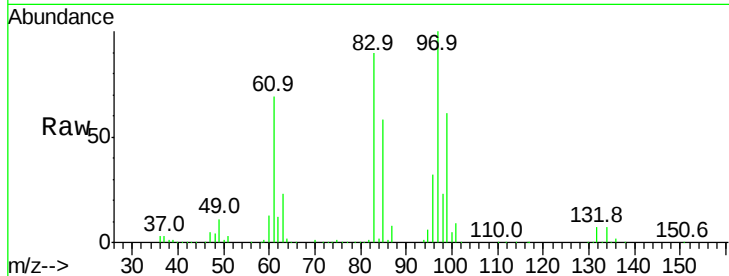
Tgt Ion: 75 Resp: 1005661  
 Ion Ratio Lower Upper  
 75 100  
 39 58.7 44.8 67.2  
 77 32.2 25.4 38.0





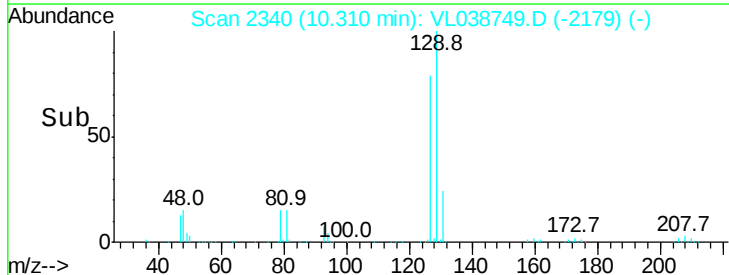
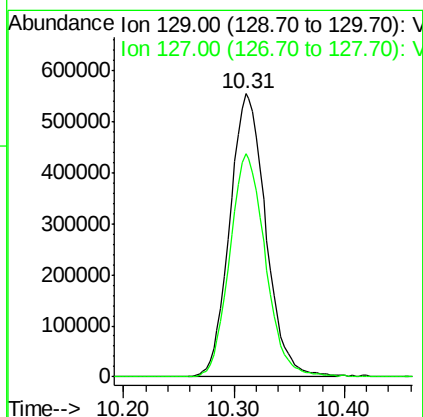
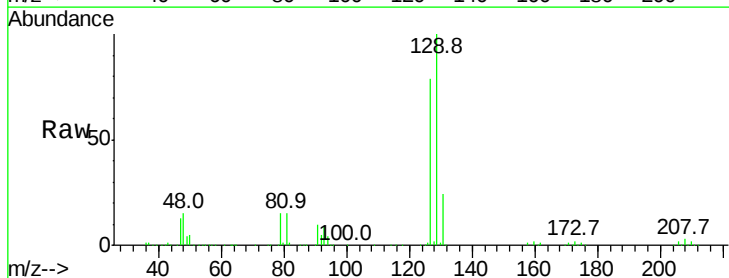
#47  
 1,1,2-Trichloroethane  
 Concen: 8.61 ppbv  
 RT: 9.48  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 24 Mar 2022 15:41

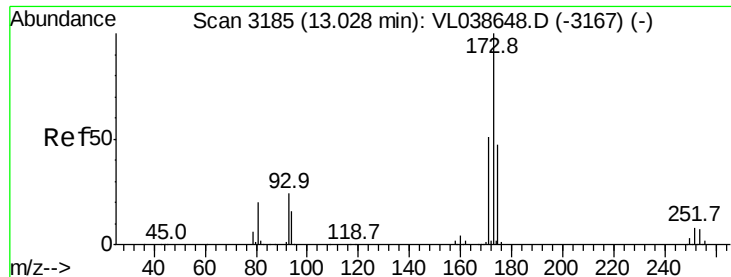
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 698664 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 89.6  | 71.2  | 106.8  |
| 85       | 57.7  | 45.3  | 67.9   |
| 99       | 61.0  | 50.6  | 76.0   |



#48  
 Dibromochloromethane  
 Concen: 9.88 ppbv  
 RT: 10.31 min Scan# 2340  
 Delta R.T. 0.02 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 129   | Resp: | 1255786 |
| Ion      | Ratio | Lower | Upper   |
| 129      | 100   |       |         |
| 127      | 78.4  | 39.5  | 118.5   |





#49

Bromoform

Concen: 9.99 ppbv

RT: 13.05

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 15:41

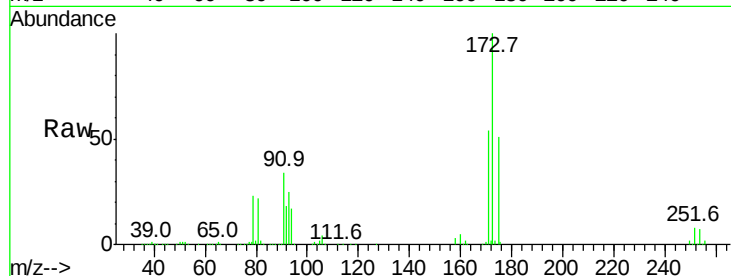
Tgt Ion: 173 Resp: 1035345

Ion Ratio Lower Upper

173 100

175 49.7 41.0 61.6

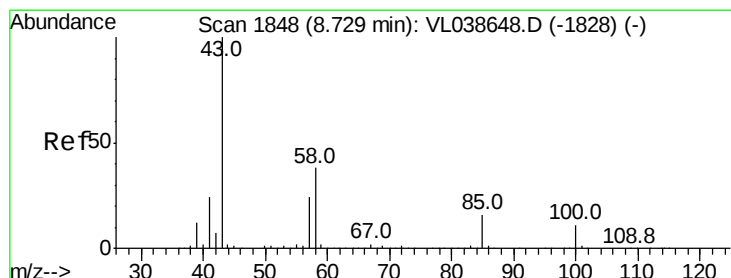
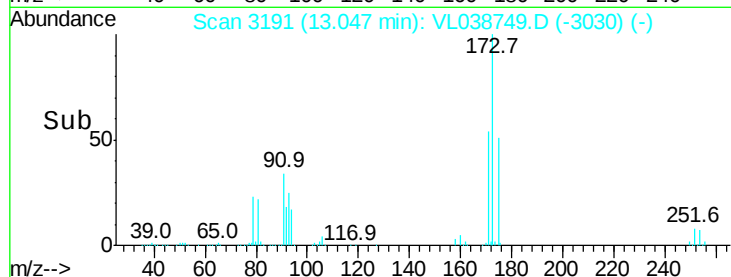
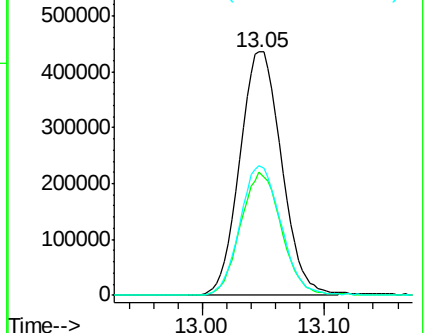
171 52.9 43.1 64.7



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: 8.90 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. 0.02 min

Lab File: VL038749.D

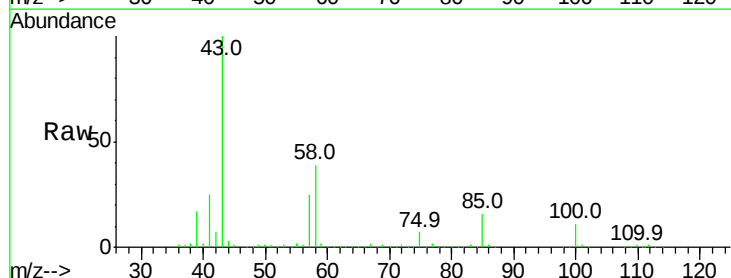
Acq: 24 Mar 2022 15:41

Tgt Ion: 43 Resp: 1649103

Ion Ratio Lower Upper

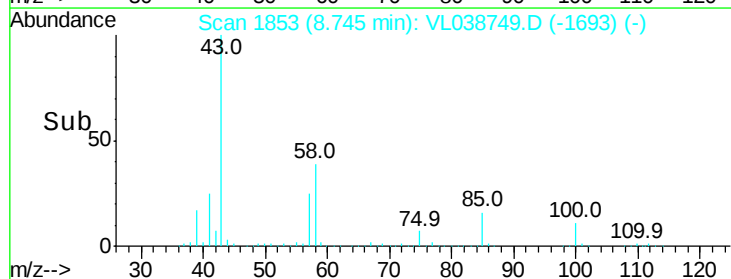
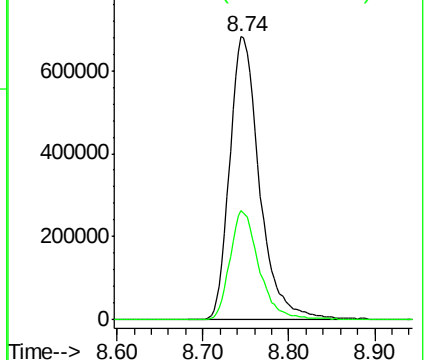
43 100

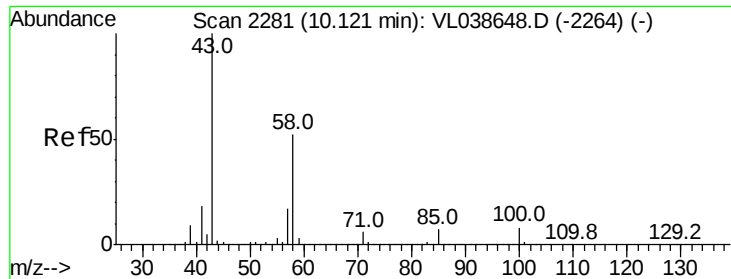
58 38.0 29.9 44.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.50 ppbv

RT: 10.14

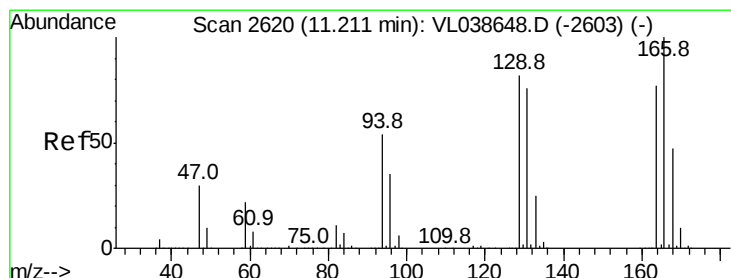
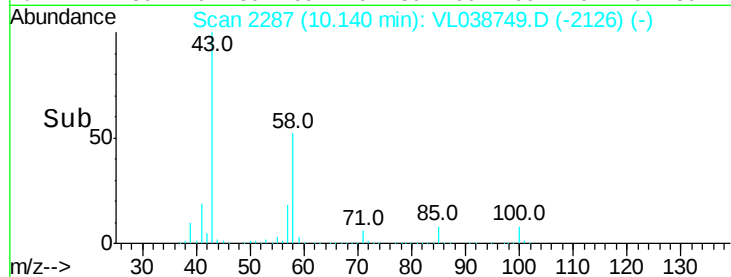
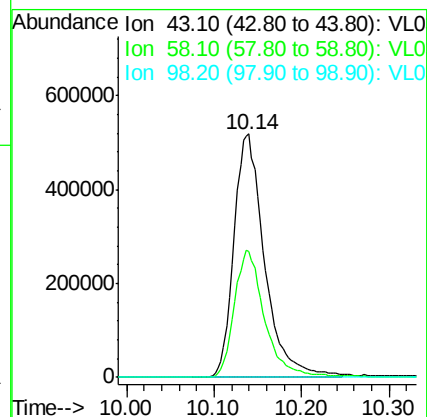
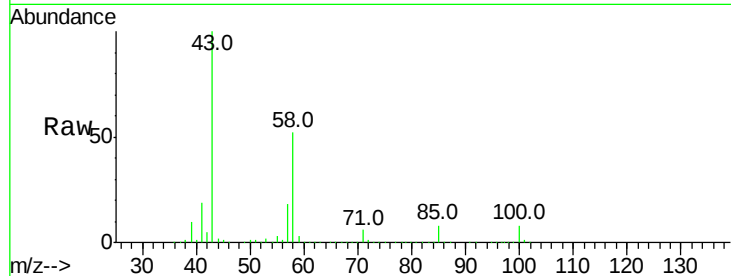
Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 15:41

Tgt Ion: 43 Resp: 1264405

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 52.2  | 41.2  | 61.8  |
| 98  | 0.3   | 0.2   | 0.4   |



#52

Tetrachloroethene

Concen: 8.92 ppbv

RT: 11.23 min Scan# 2626

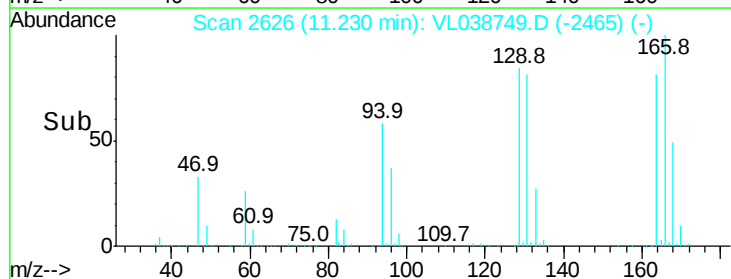
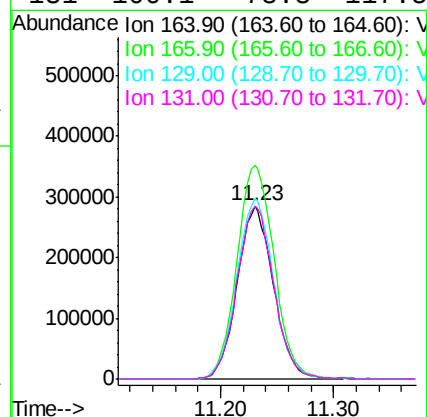
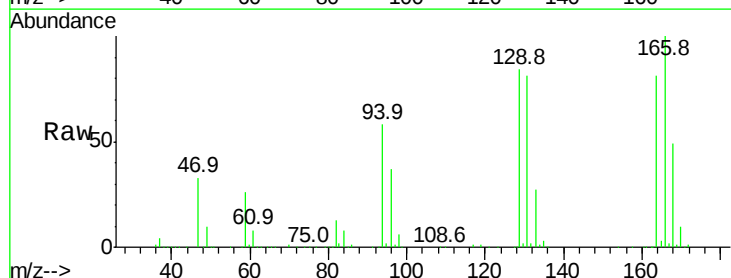
Delta R.T. 0.02 min

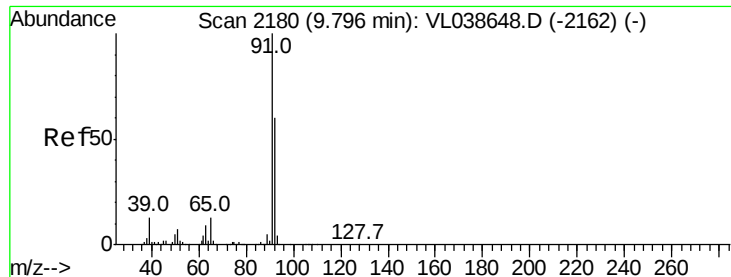
Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

Tgt Ion: 164 Resp: 634346

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 123.4 | 103.3 | 154.9 |
| 129 | 103.9 | 85.2  | 127.8 |
| 131 | 100.1 | 78.3  | 117.5 |





#53

Toluene

Concen: 9.39 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

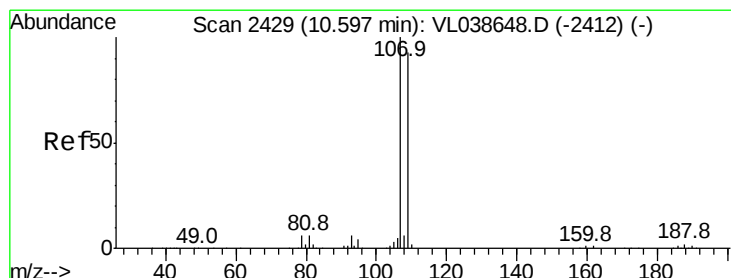
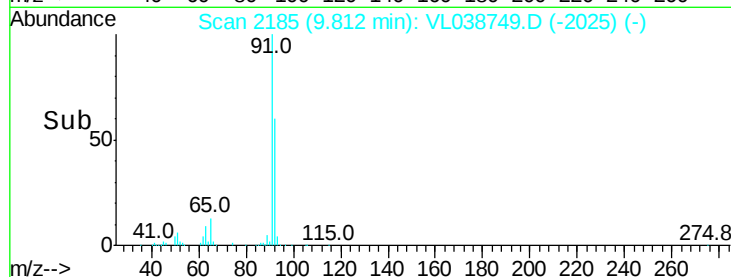
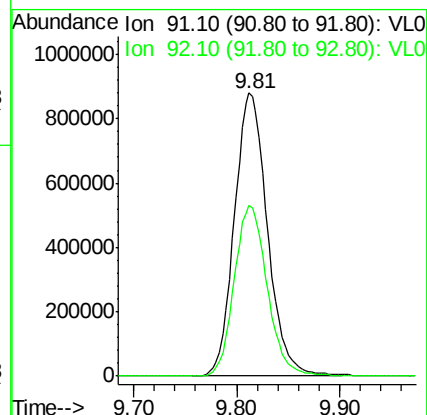
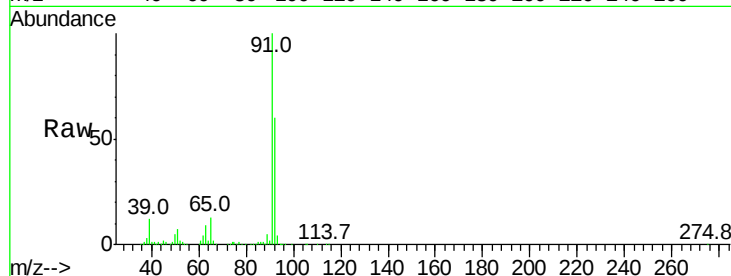
Acq: 24 Mar 2022 15:41 VSTDCCC010

Tgt Ion: 91 Resp: 1961772

Ion Ratio Lower Upper

91 100

92 60.3 48.7 73.1



#54

1,2-Dibromoethane

Concen: 9.42 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. 0.02 min

Lab File: VL038749.D

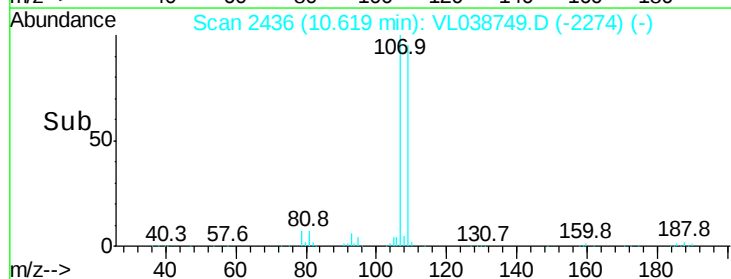
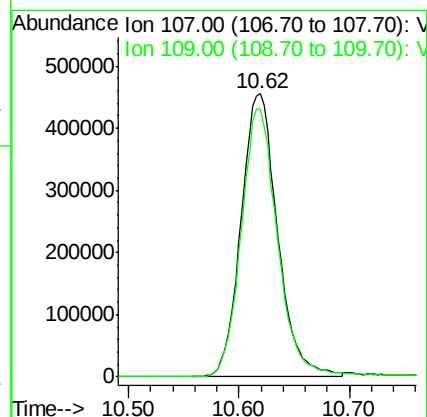
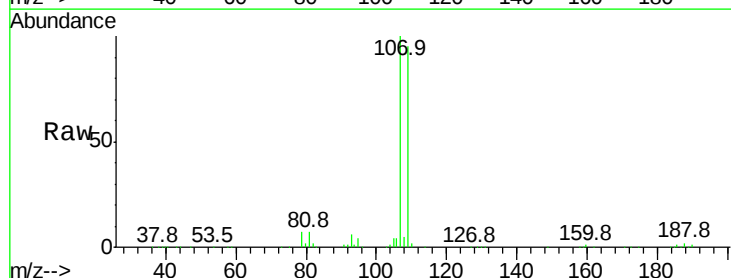
Acq: 24 Mar 2022 15:41

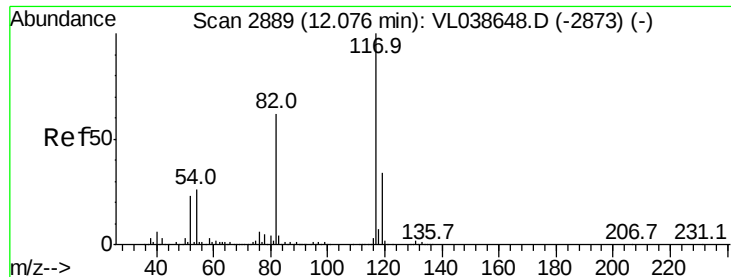
Tgt Ion: 107 Resp: 1043308

Ion Ratio Lower Upper

107 100

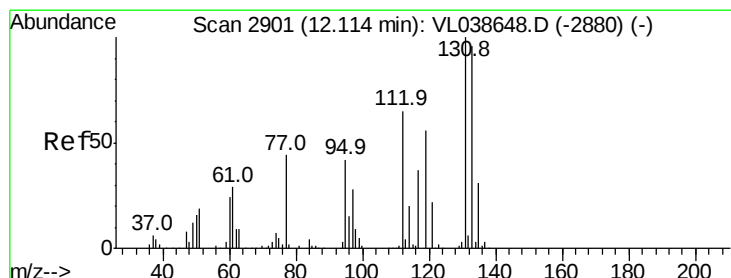
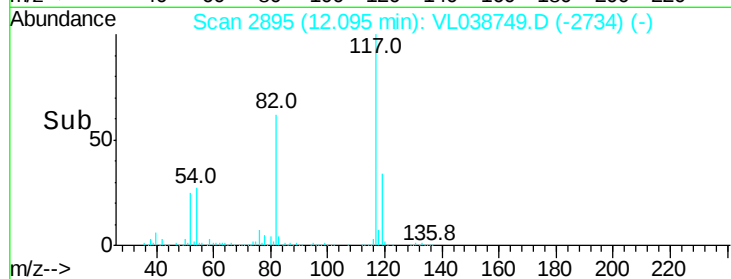
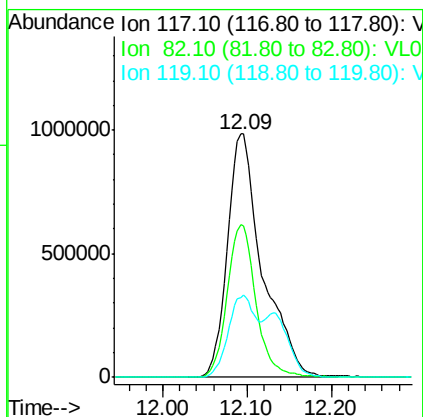
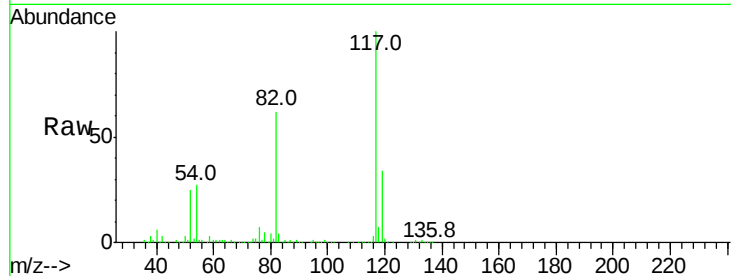
109 94.8 74.1 111.1





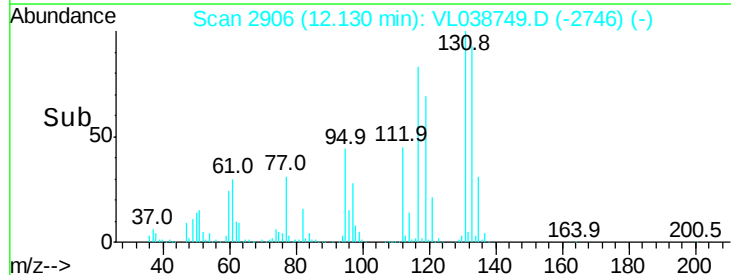
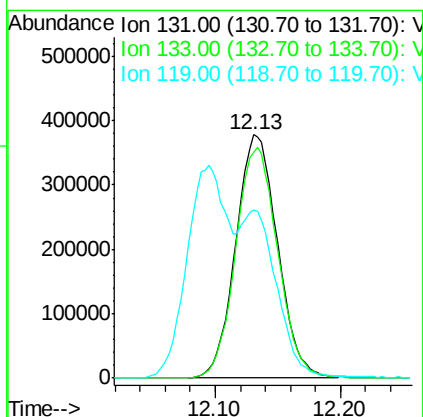
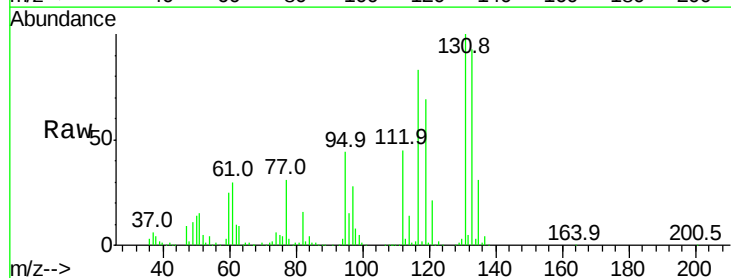
#55  
 Chlorobenzene-d5  
 Concen: 10.00 ppbv  
 RT: 12.09 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 24 Mar 2022 15:41

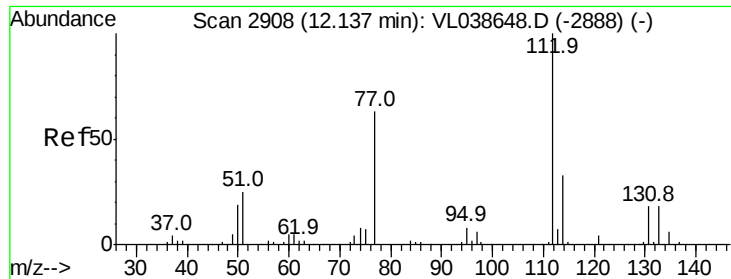
Tgt Ion:117 Resp: 2842803  
 Ion Ratio Lower Upper  
 117 100  
 82 51.8 51.6 77.4  
 119 45.9 26.9 40.3#



#56  
 1,1,1,2-Tetrachloroethane  
 Concen: 7.44 ppbv  
 RT: 12.13 min Scan# 2906  
 Delta R.T.: 0.02 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

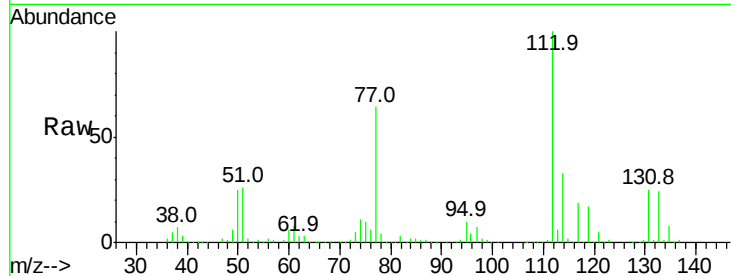
Tgt Ion:131 Resp: 876831  
 Ion Ratio Lower Upper  
 131 100  
 133 95.7 77.3 115.9  
 119 148.6 53.0 79.6#



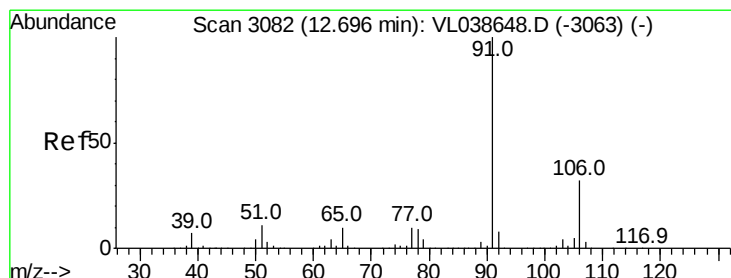
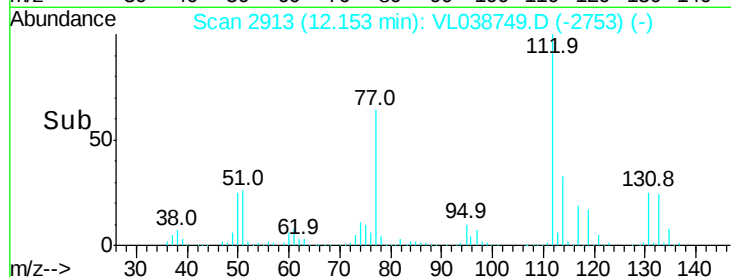
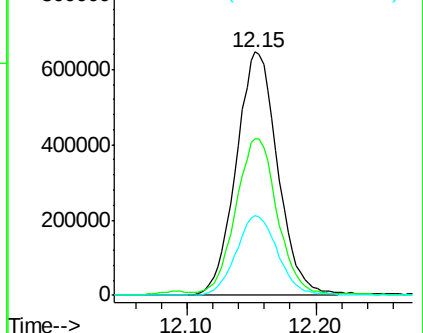


#57  
Chlorobenzene  
Concen: 7.05 ppbv  
RT: 12.15 min  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 24 Mar 2022 15:41

Tgt Ion: 112 Resp: 1446140  
Ion Ratio Lower Upper  
112 100  
77 63.5 51.0 76.6  
114 32.9 29.8 36.4

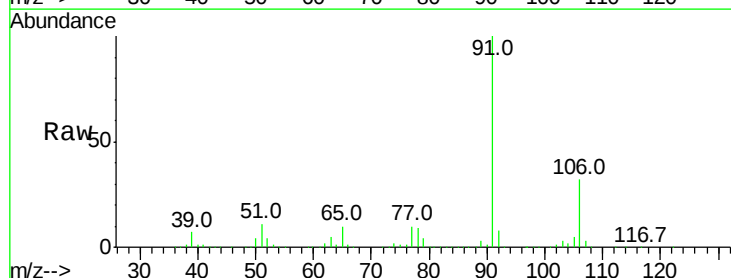


Abundance Ion 112.10 (111.80 to 112.80): V  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 114.10 (113.80 to 114.80): V

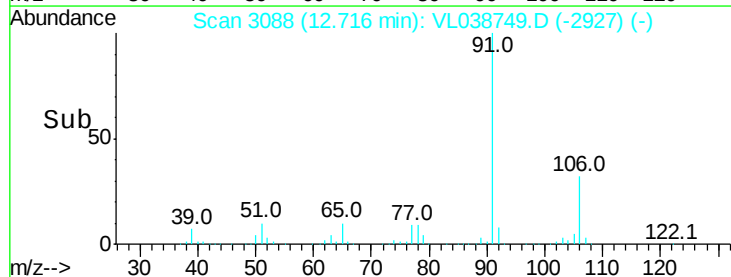
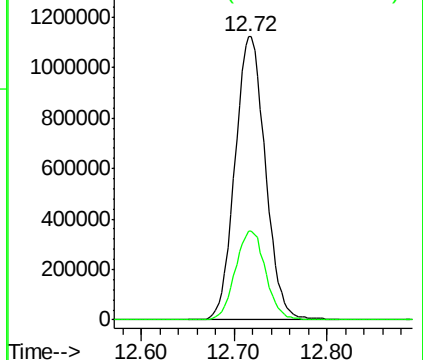


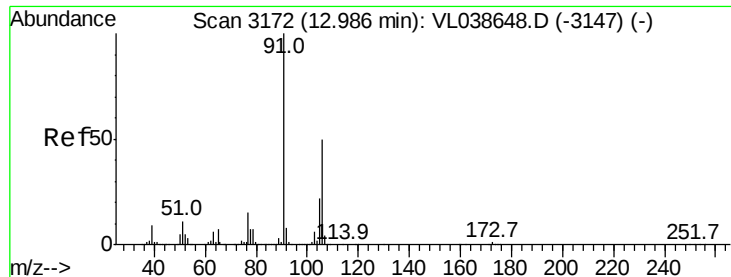
#58  
Ethyl Benzene  
Concen: 7.67 ppbv  
RT: 12.72 min Scan# 3088  
Delta R.T.: 0.02 min  
Lab File: VL038749.D  
Acq: 24 Mar 2022 15:41

Tgt Ion: 91 Resp: 2550424  
Ion Ratio Lower Upper  
91 100  
106 31.6 25.4 38.0



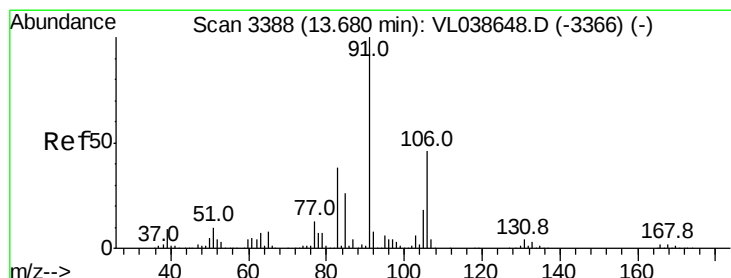
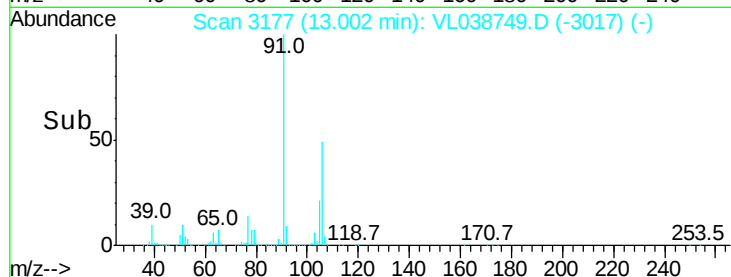
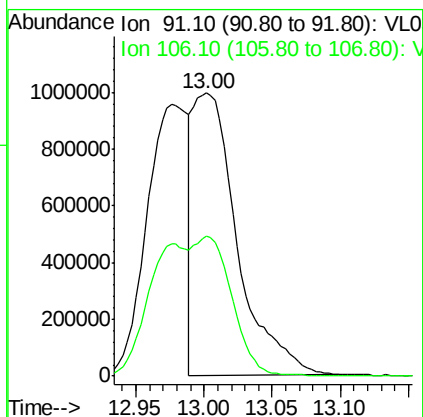
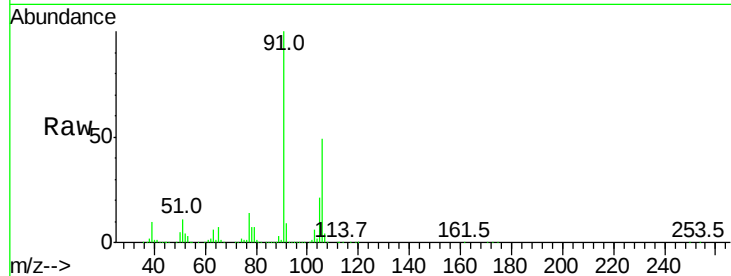
Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





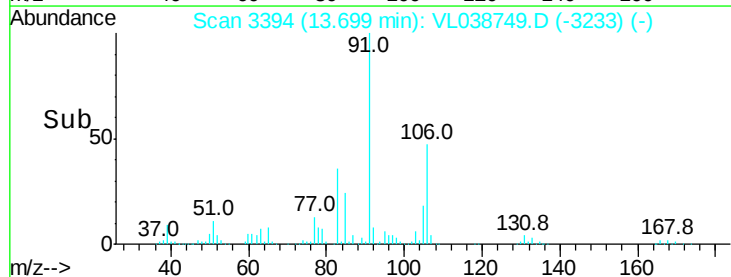
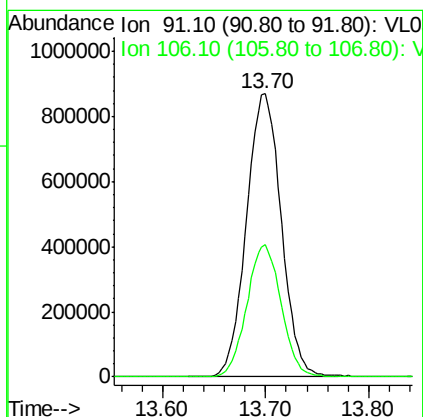
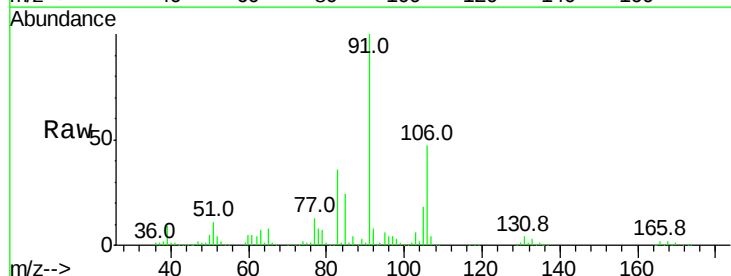
#59  
m/p-Xylene  
Concen: 7.66 ppbv  
RT: 13.00 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 24 Mar 2022 15:41

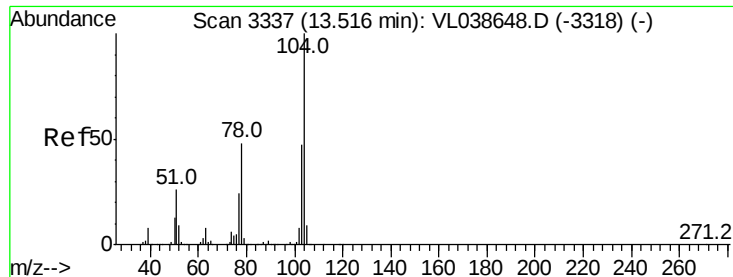
Tgt Ion: 91 Resp: 2225760  
Ion Ratio Lower Upper  
91 100  
106 87.0 37.2 55.8#



#60  
o-Xylene  
Concen: 7.37 ppbv  
RT: 13.70 min Scan# 3394  
Delta R.T. 0.02 min  
Lab File: VL038749.D  
Acq: 24 Mar 2022 15:41

Tgt Ion: 91 Resp: 2034424  
Ion Ratio Lower Upper  
91 100  
106 46.4 23.5 70.5





#61

Styrene

Concen: 8.26 ppbv

RT: 13.53

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 15:41 VSTDCCC010

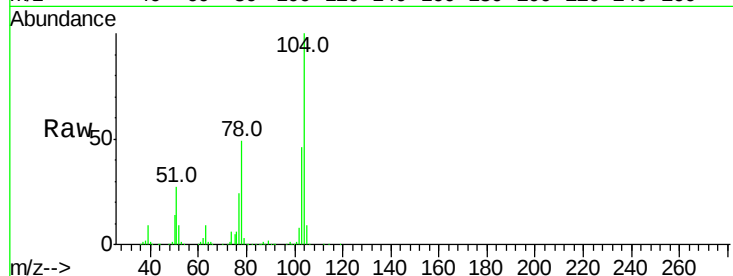
Tgt Ion:104 Resp: 1236402

Ion Ratio Lower Upper

104 100

78 49.7 39.0 58.4

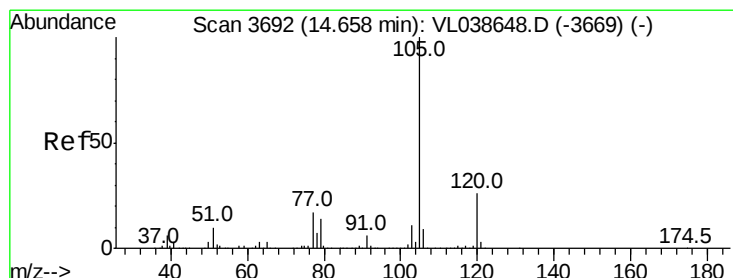
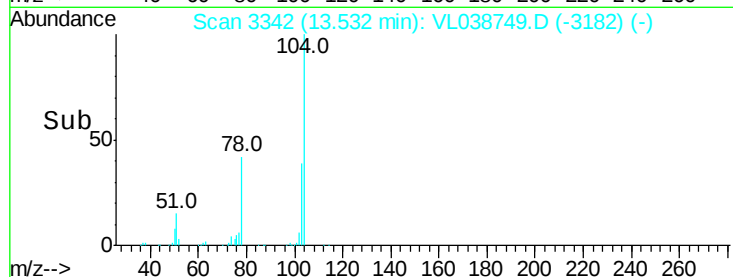
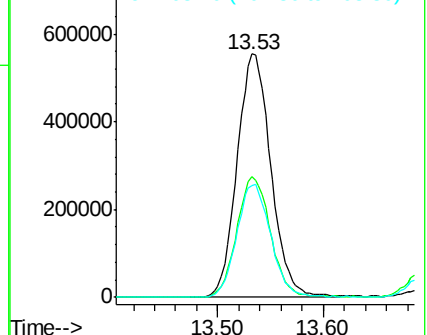
103 46.8 37.8 56.8



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): V

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.15 ppbv

RT: 14.67 min Scan# 3697

Delta R.T. 0.02 min

Lab File: VL038749.D

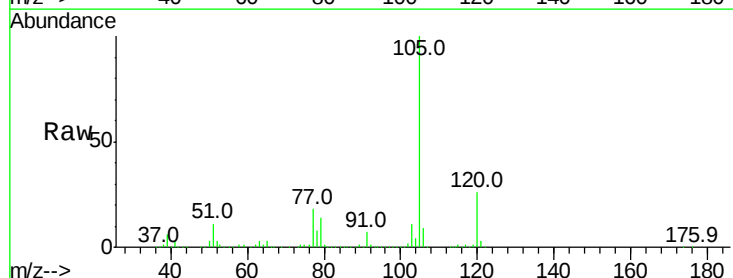
Acq: 24 Mar 2022 15:41

Tgt Ion:105 Resp: 2967512

Ion Ratio Lower Upper

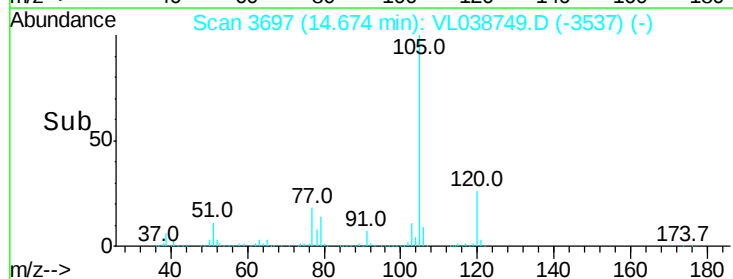
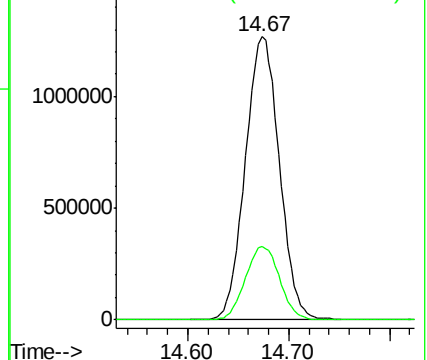
105 100

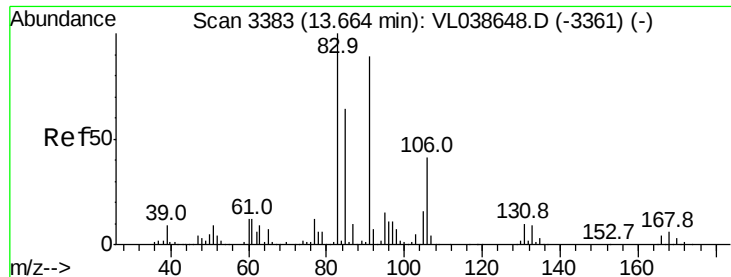
120 26.1 21.2 31.8



Abundance Ion 105.10 (104.80 to 105.80): V

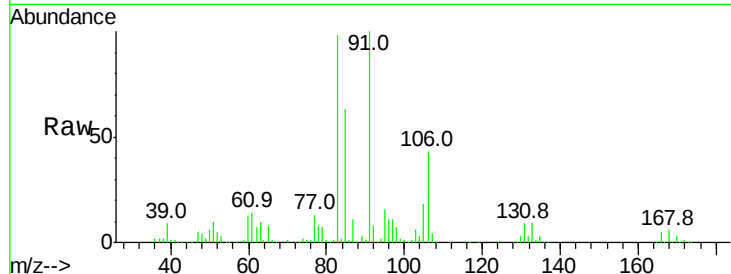
Ion 120.20 (119.90 to 120.90): V



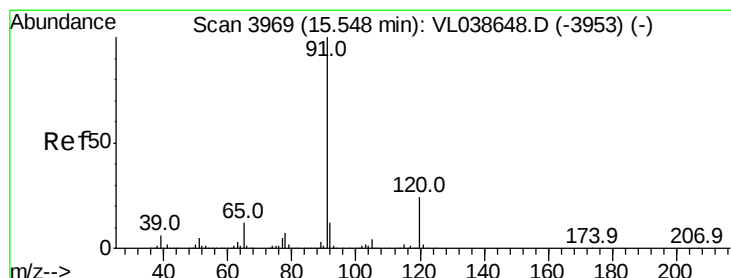
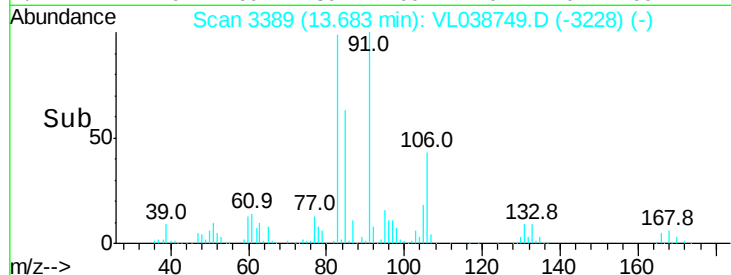
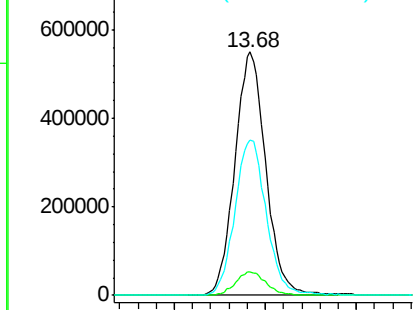


#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 6.08 ppbv  
 RT: 13.68 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId : VSTDCCC010  
 Acq: 24 Mar 2022 15:41

Tgt Ion: 83 Resp: 1299799  
 Ion Ratio Lower Upper  
 83 100  
 131 9.6 4.8 14.3  
 85 65.4 32.6 97.8

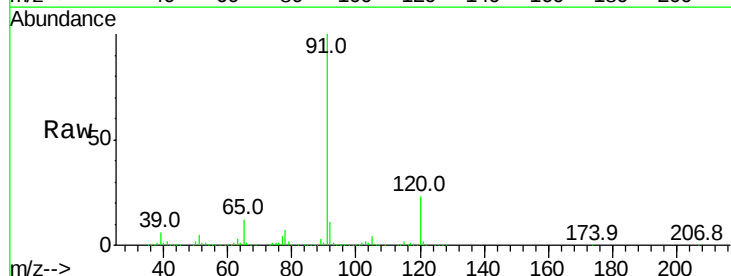


Abundance Ion 83.00 (82.70 to 83.70): VL0  
 Ion 131.00 (130.70 to 131.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0

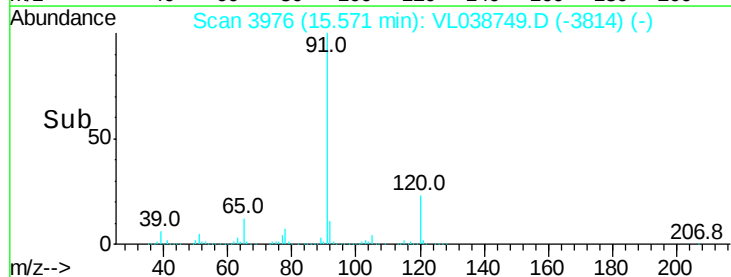
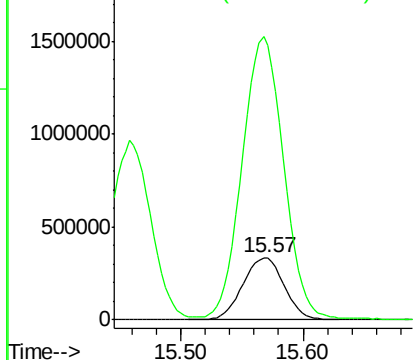


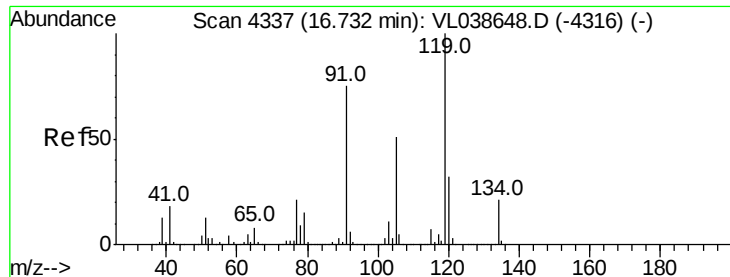
#64  
 n-propylbenzene  
 Concen: 7.21 ppbv  
 RT: 15.57 min Scan# 3976  
 Delta R.T. 0.02 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

Tgt Ion: 120 Resp: 784623  
 Ion Ratio Lower Upper  
 120 100  
 91 458.9 368.0 552.0



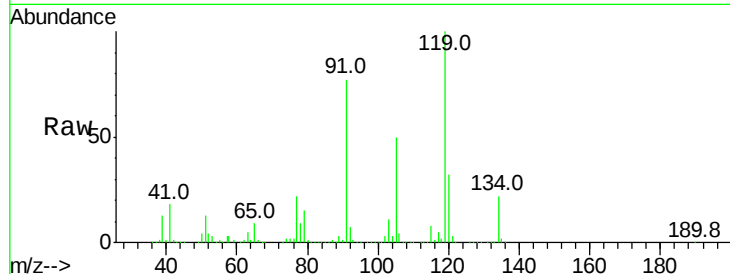
Abundance Ion 120.20 (119.90 to 120.90): VL0  
 Ion 91.10 (90.80 to 91.80): VL0



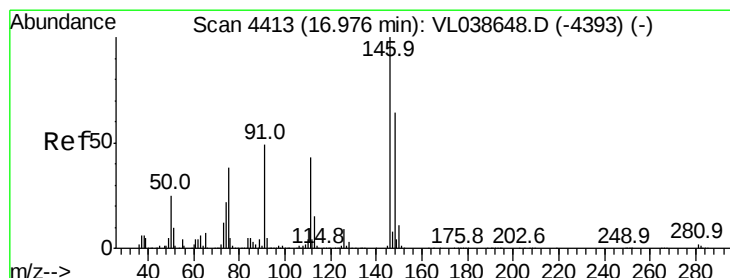
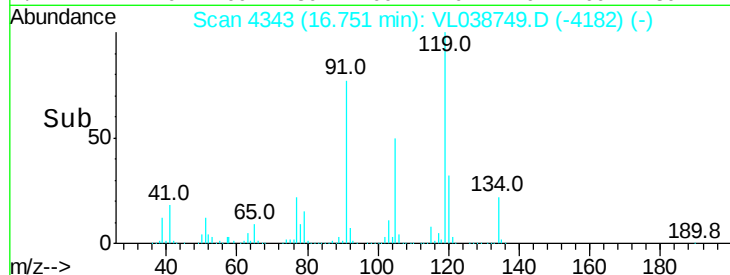
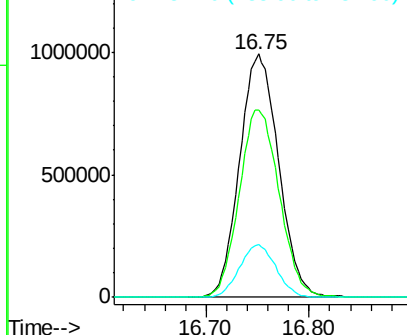


#65  
tert-Butylbenzene  
Concen: 7.00 ppbv  
RT: 16.75  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
VSTDCCC010  
Acq: 24 Mar 2022 15:41

Tgt Ion: 119 Resp: 2610423  
Ion Ratio Lower Upper  
119 100  
91 79.1 61.2 91.8  
134 20.5 16.3 24.5

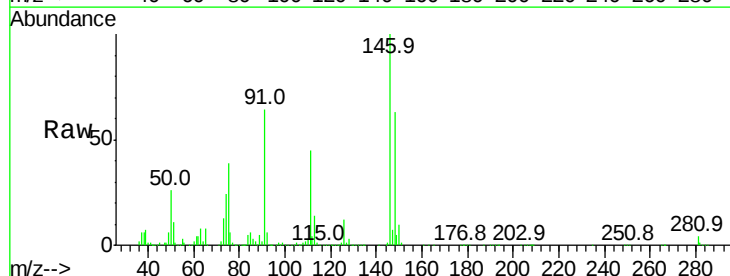


Abundance Ion 119.20 (118.90 to 119.90): V  
Ion 91.10 (90.80 to 91.80): VL0  
Ion 134.20 (133.90 to 134.90): V

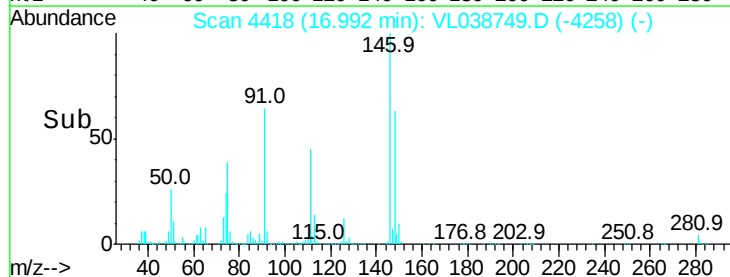
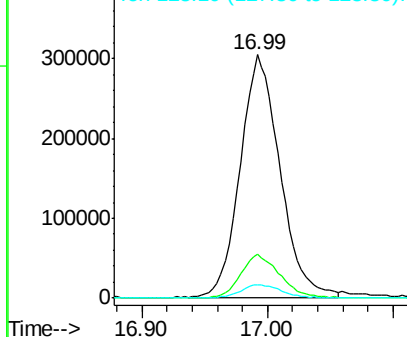


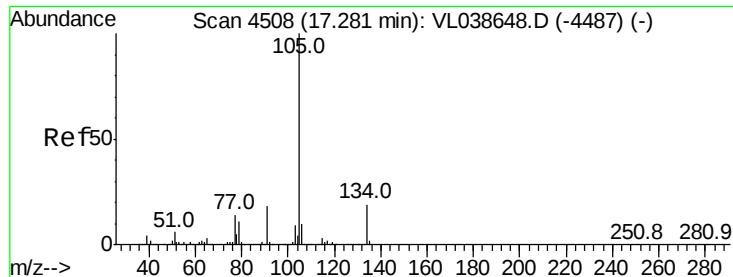
#66  
Benzyl Chloride  
Concen: 9.45 ppbv  
RT: 16.99 min Scan# 4418  
Delta R.T. 0.02 min  
Lab File: VL038749.D  
Acq: 24 Mar 2022 15:41

Tgt Ion: 91 Resp: 666998  
Ion Ratio Lower Upper  
91 100  
126 18.0 14.3 21.5  
128 5.7 4.6 6.8



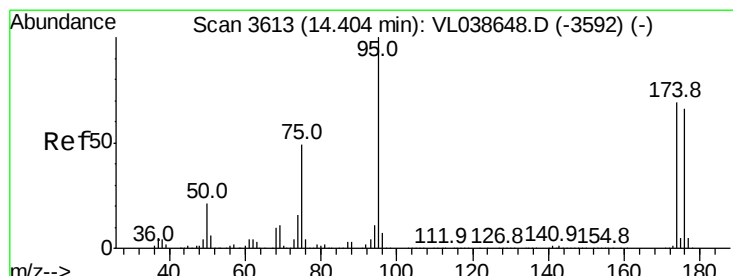
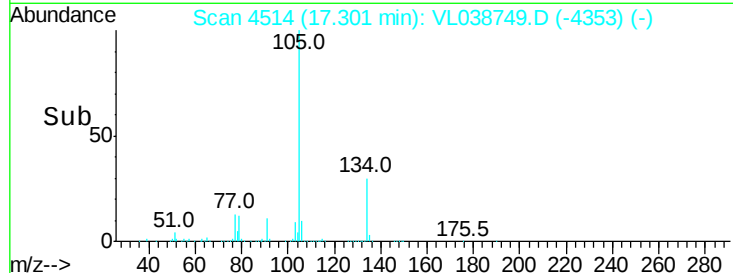
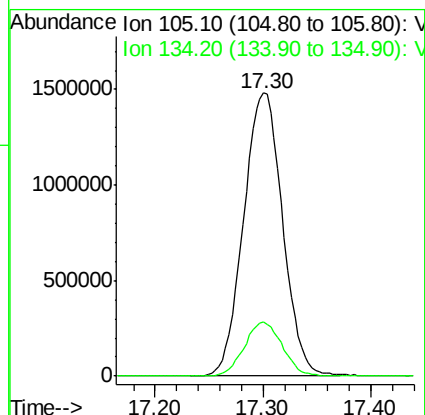
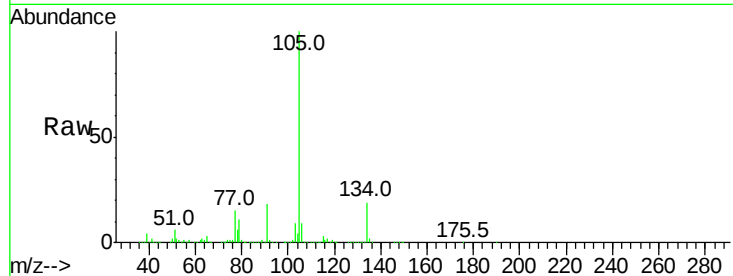
Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 126.10 (125.80 to 126.80): V  
Ion 128.10 (127.80 to 128.80): V





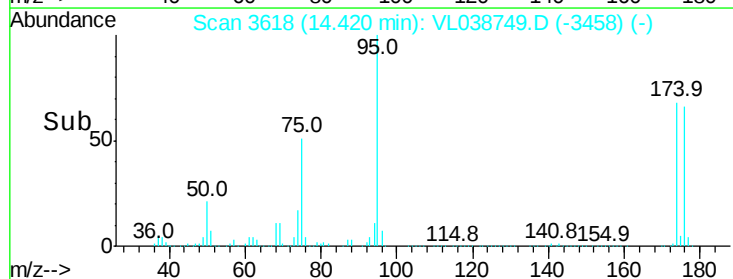
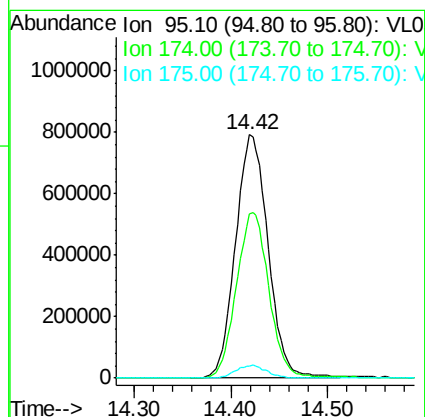
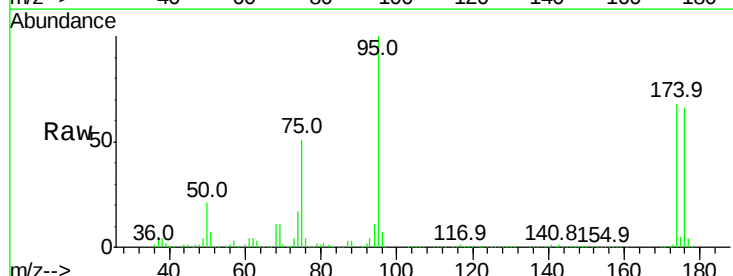
#67  
 sec-Butylbenzene  
 Concen: 6.96 ppbv  
 RT: 17.30  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 24 Mar 2022 15:41

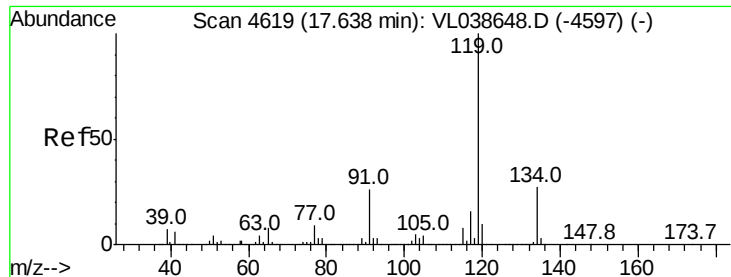
Tgt Ion: 105 Resp: 3709245  
 Ion Ratio Lower Upper  
 105 100  
 134 18.7 15.1 22.7



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.52 ppbv  
 RT: 14.42 min Scan# 3618  
 Delta R.T. 0.02 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

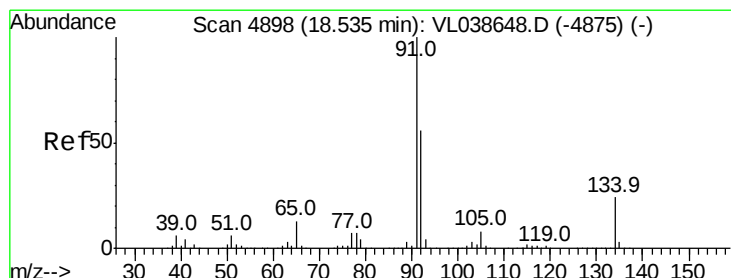
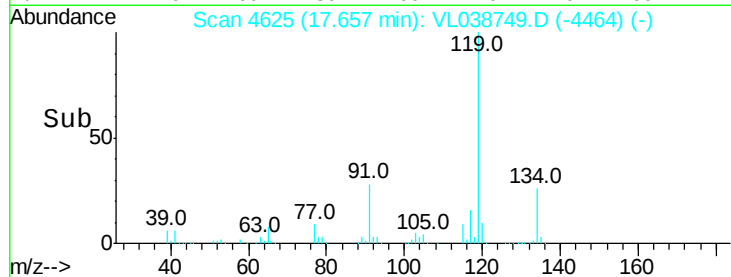
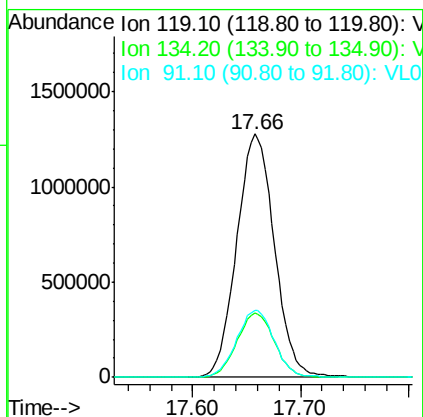
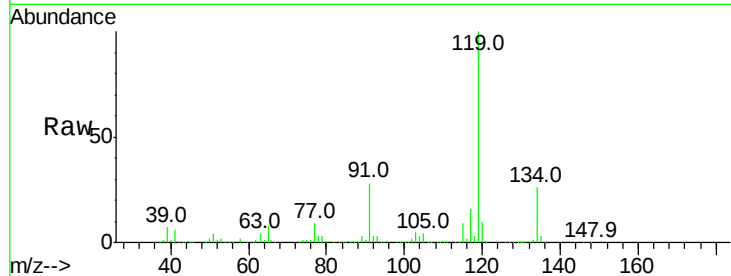
Tgt Ion: 95 Resp: 1857367  
 Ion Ratio Lower Upper  
 95 100  
 174 68.8 56.1 84.1  
 175 5.1 4.2 6.2





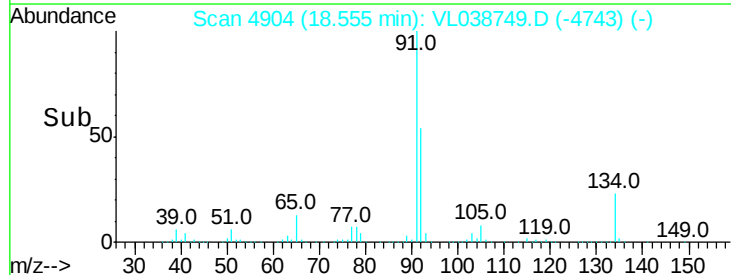
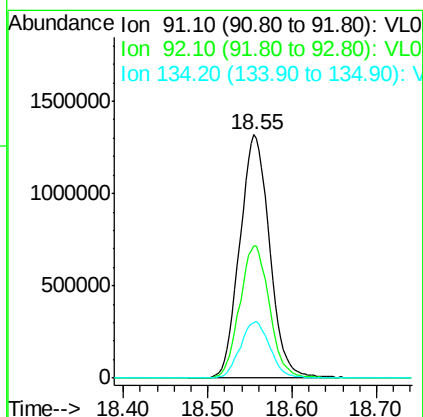
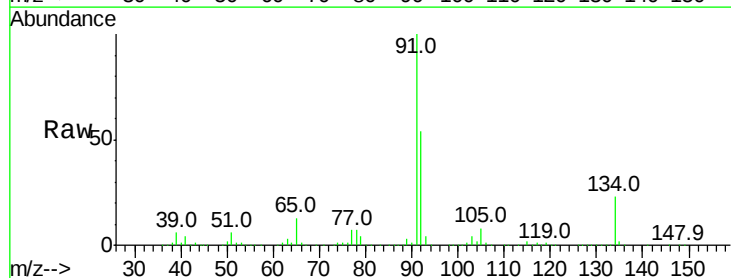
#69  
 p-Isopropyltoluene  
 Concen: 7.12 ppbv  
 RT: 17.66  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 24 Mar 2022 15:41

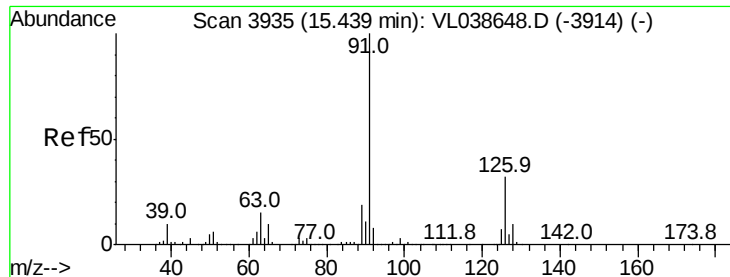
Tgt Ion: 119 Resp: 3096813  
 Ion Ratio Lower Upper  
 119 100  
 134 26.5 21.2 31.8  
 91 27.6 21.4 32.2



#70  
 n-Butylbenzene  
 Concen: 7.23 ppbv  
 RT: 18.55 min Scan# 4904  
 Delta R.T. 0.02 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

Tgt Ion: 91 Resp: 3247236  
 Ion Ratio Lower Upper  
 91 100  
 92 54.5 43.9 65.9  
 134 23.2 18.7 28.1





#71

2-Chlorotoluene

Concen: 7.19 ppbv

RT: 15.46

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

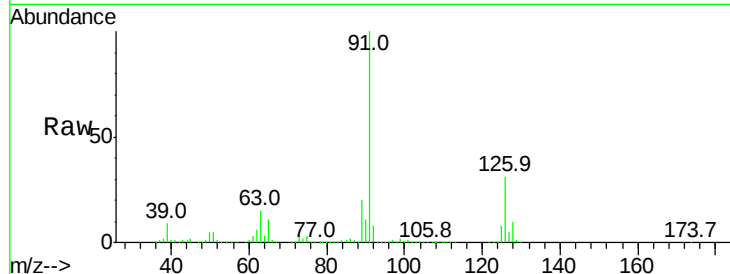
Acq: 24 Mar 2022 15:41

Tgt Ion: 91 Resp: 2214661

Ion Ratio Lower Upper

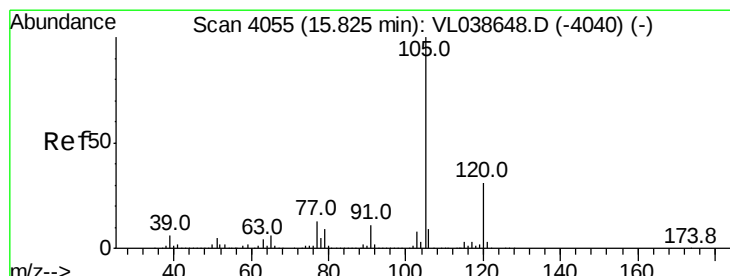
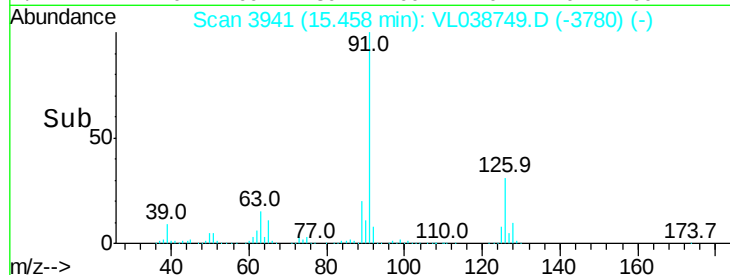
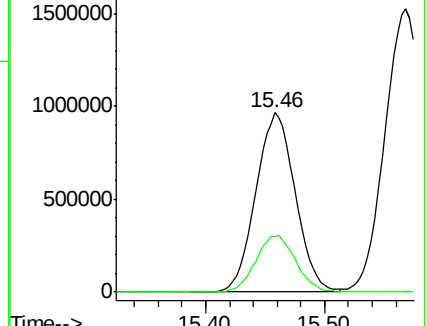
91 100

126 32.1 13.1 52.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 7.42 ppbv

RT: 15.85 min Scan# 4062

Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

Tgt Ion:105 Resp: 2417380

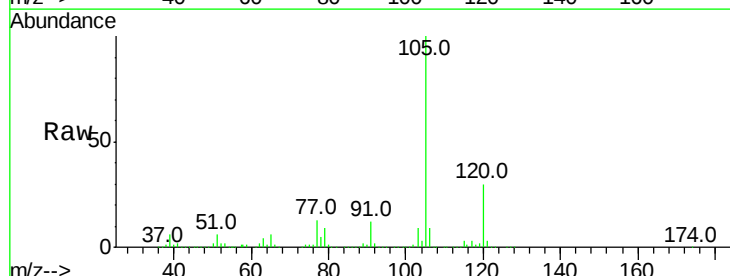
Ion Ratio Lower Upper

105 100

120 30.6 24.9 37.3

91 12.3 9.8 14.6

77 13.3 10.6 16.0

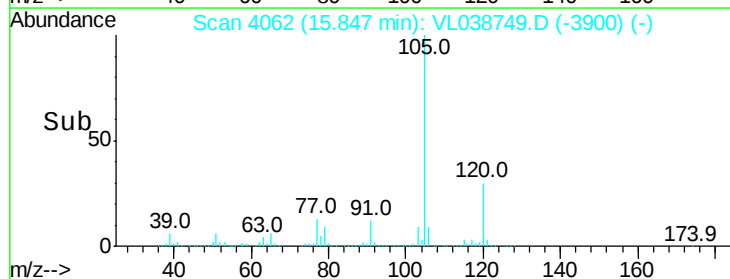
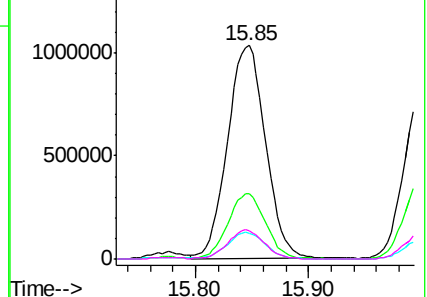


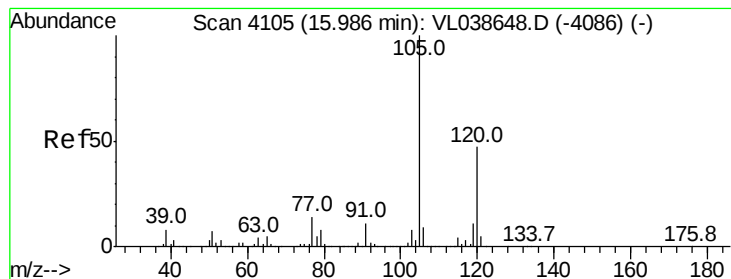
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 7.25 ppbv

RT: 16.00

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

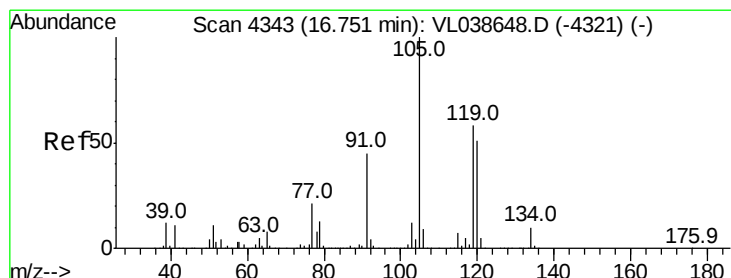
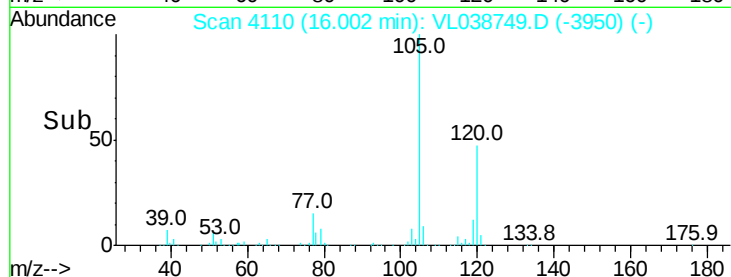
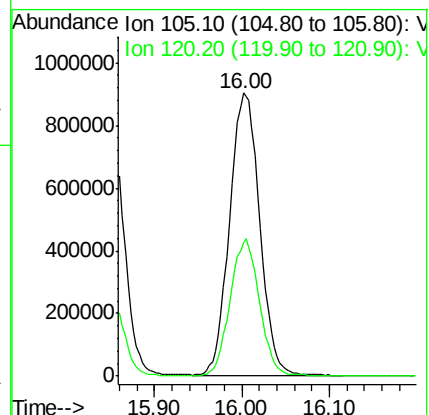
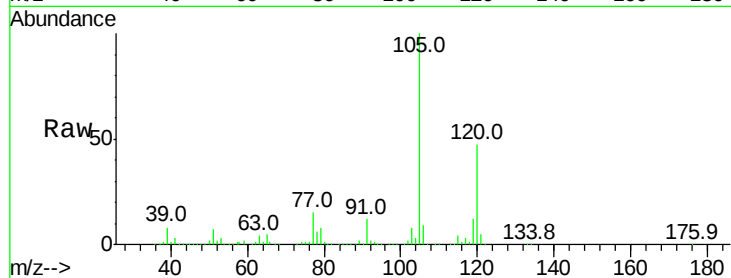
Acq: 24 Mar 2022 15:41

Tgt Ion:105 Resp: 2153926

Ion Ratio Lower Upper

105 100

120 47.2 37.6 56.4



#74

1,2,4-Trimethylbenzene

Concen: 7.09 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

Tgt Ion:105 Resp: 2292552

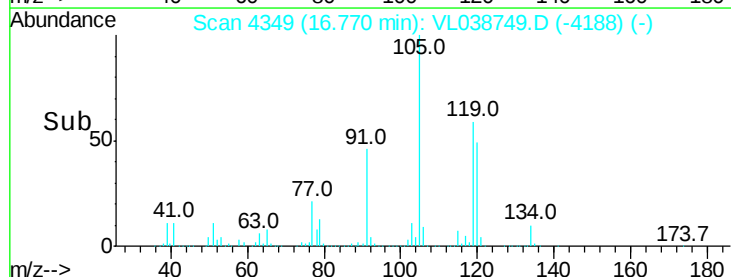
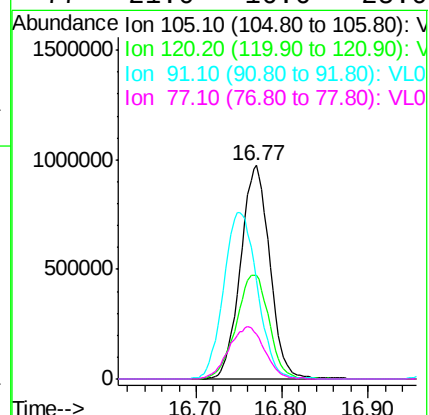
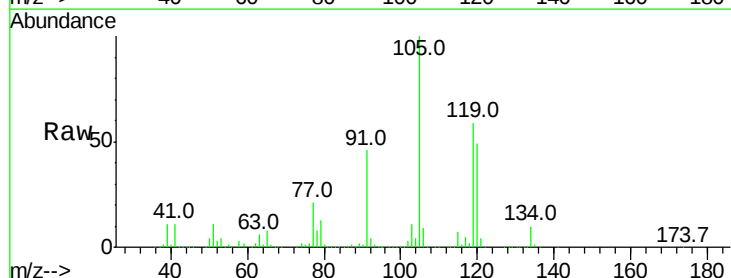
Ion Ratio Lower Upper

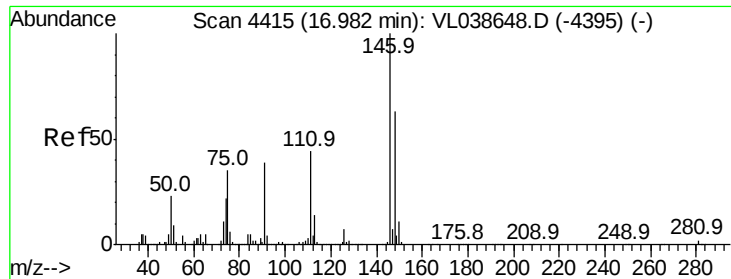
105 100

120 48.8 40.5 60.7

91 45.7 35.9 53.9

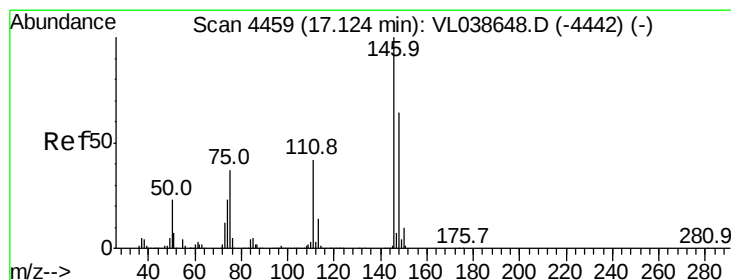
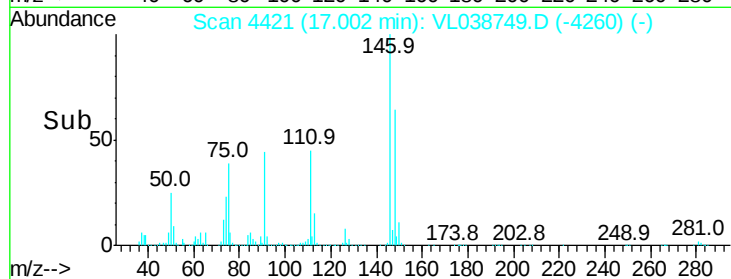
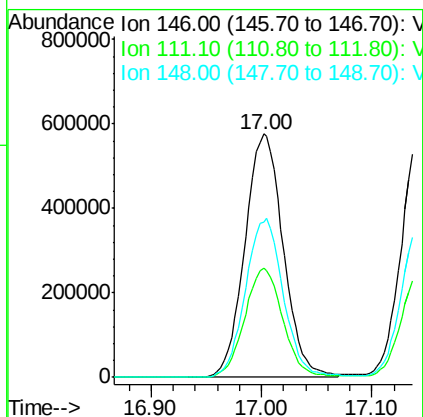
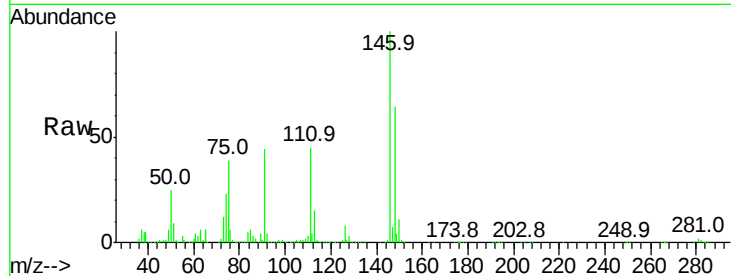
77 21.0 16.6 25.0





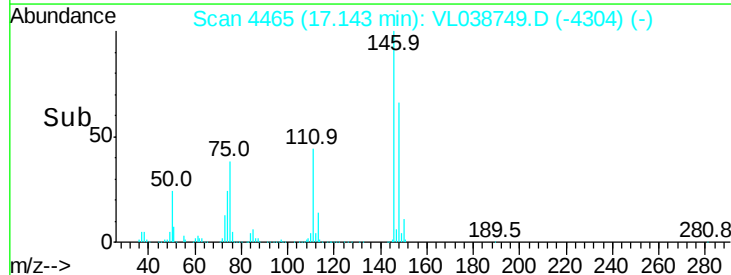
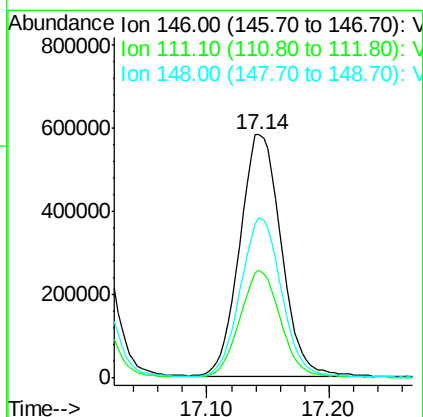
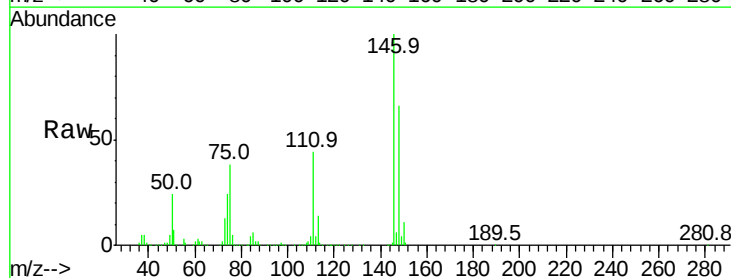
#75  
 1,3-Dichlorobenzene  
 Concen: 6.74 ppbv  
 RT: 17.00  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId:  
 VSTDCCC010  
 Acq: 24 Mar 2022 15:41

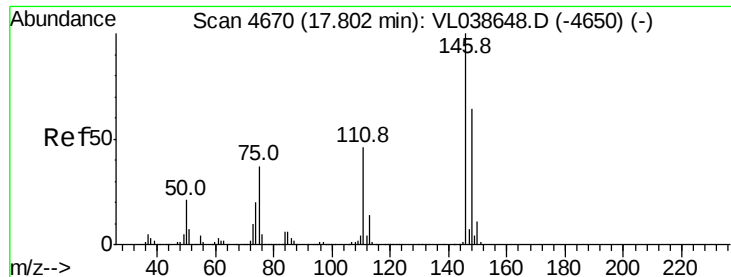
Tgt Ion:146 Resp: 1388721  
 Ion Ratio Lower Upper  
 146 100  
 111 44.8 22.2 66.6  
 148 64.5 32.5 97.5



#76  
 1,4-Dichlorobenzene  
 Concen: 6.62 ppbv  
 RT: 17.14 min Scan# 4465  
 Delta R.T. 0.02 min  
 Lab File: VL038749.D  
 Acq: 24 Mar 2022 15:41

Tgt Ion:146 Resp: 1355399  
 Ion Ratio Lower Upper  
 146 100  
 111 44.6 21.4 64.2  
 148 67.3 32.1 96.3





#77

1,2-Dichlorobenzene

Concen: 6.72 ppbv

RT: 17.82

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 15:41

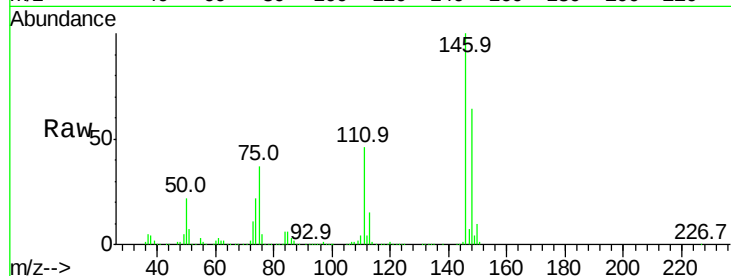
Tgt Ion:146 Resp: 1371405

Ion Ratio Lower Upper

146 100

111 47.2 22.8 68.4

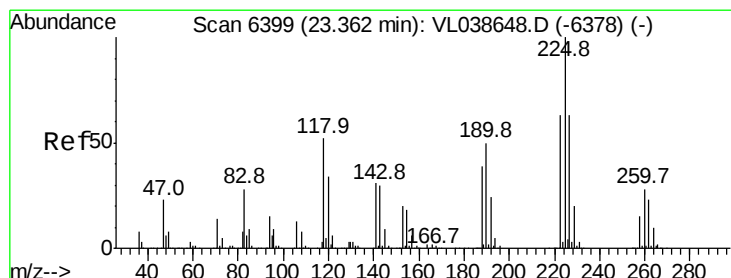
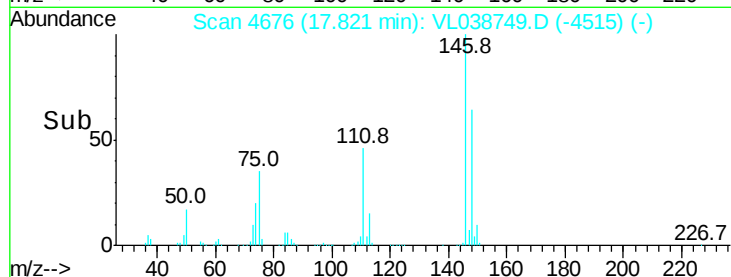
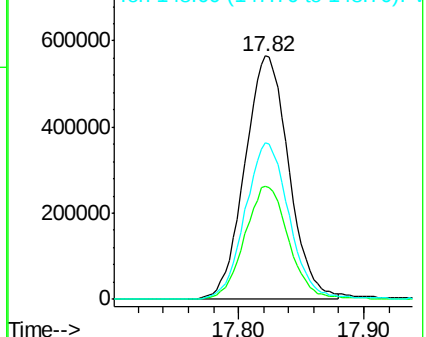
148 64.6 32.5 97.4



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: 6.81 ppbv

RT: 23.38 min Scan# 6405

Delta R.T. 0.02 min

Lab File: VL038749.D

Acq: 24 Mar 2022 15:41

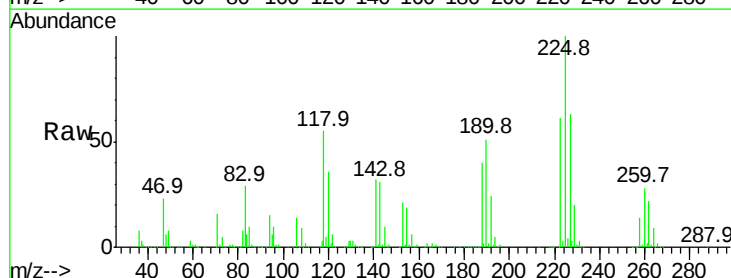
Tgt Ion:225 Resp: 1284426

Ion Ratio Lower Upper

225 100

223 63.6 51.0 76.6

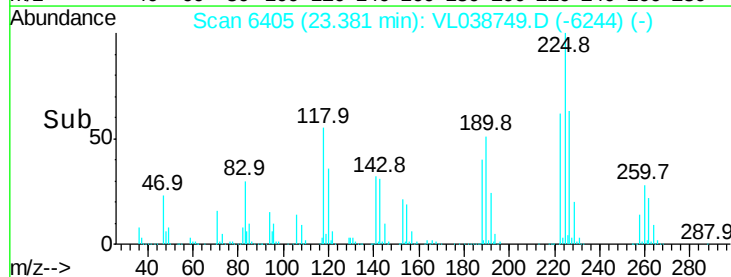
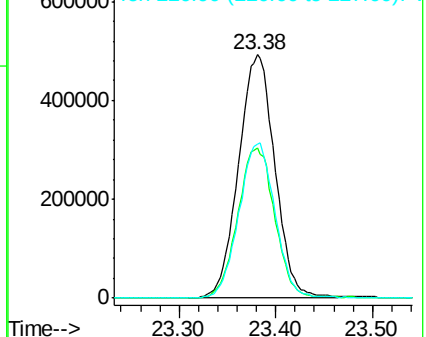
227 63.9 51.5 77.3

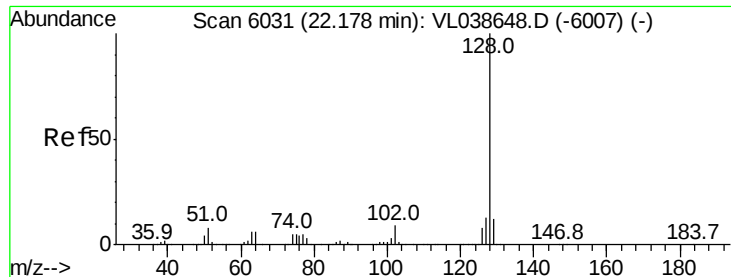


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

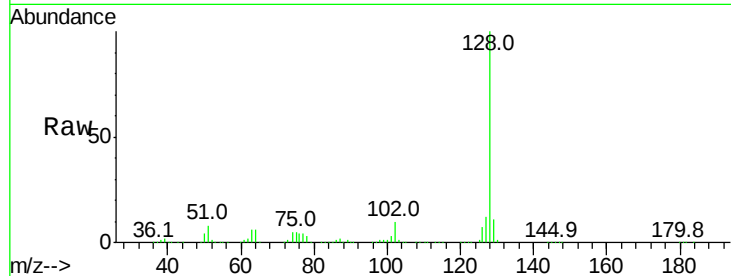




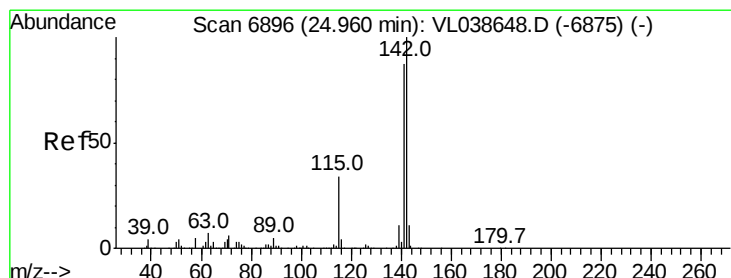
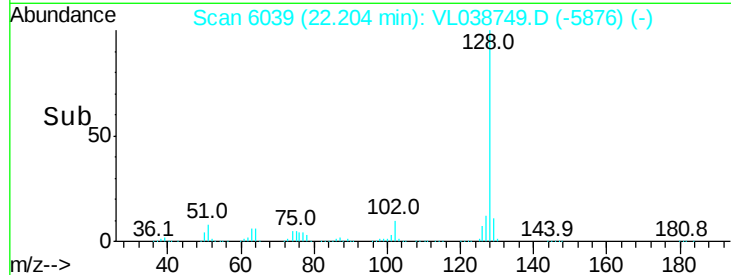
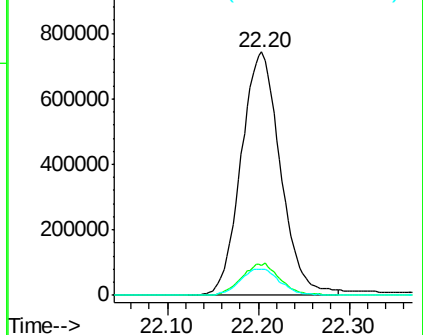
#79  
Naphthalene  
Concen: 9.03 ppbv  
RT: 22.20 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 24 Mar 2022 15:41

Tgt Ion:128 Resp: 2230214

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 12.4  | 10.2  | 15.4  |
| 129 | 10.8  | 9.2   | 13.8  |



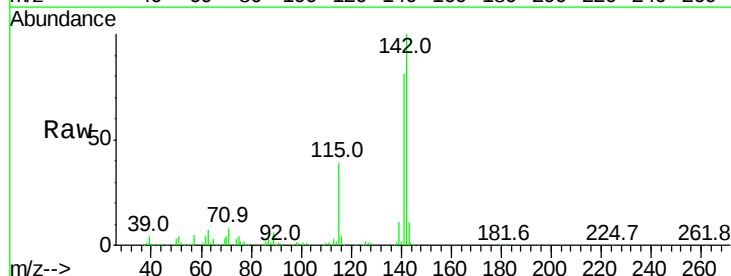
Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



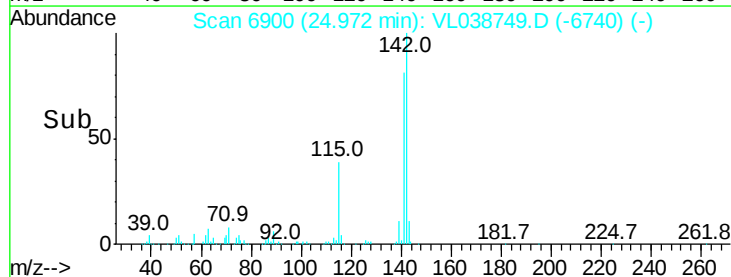
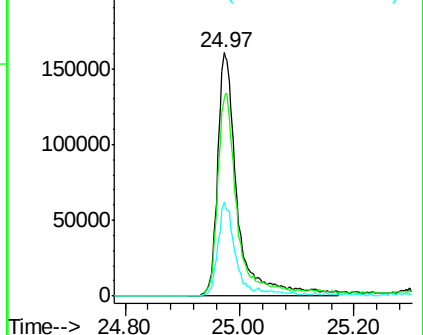
#80  
Naphthalene, 2-methyl-  
Concen: 5.86 ppbv  
RT: 24.97 min Scan# 6900  
Delta R.T. 0.01 min  
Lab File: VL038749.D  
Acq: 24 Mar 2022 15:41

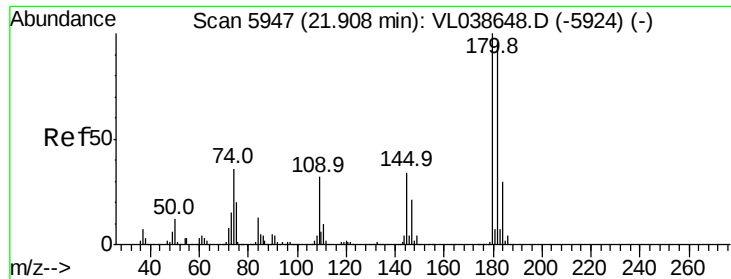
Tgt Ion:142 Resp: 388571

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 81.4  | 66.4  | 99.6  |
| 115 | 35.8  | 27.8  | 41.6  |



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: 7.62 ppbv  
 RT: 21.93  
 Delta R.T: MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 24 Mar 2022 13:41

Tgt Ion:180 Resp: 1289159  
 Ion Ratio Lower Upper  
 180 100  
 182 97.0 79.2 118.8  
 184 31.5 24.8 37.2

