

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041922\  
 Data File : VL038943.D  
 Acq On : 19 Apr 2022 9:55  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Apr 20 04:23:16 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Apr 06 06:12:53 2022  
 QLast Update : Wed Apr 06 06:12:53 2022  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 1181333  | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 3225506  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 3761517  | 10.00 | ppbv  | 0.03     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 2358256  | 8.27     | ppbv | 0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 82.70% |

## Target Compounds

|                                |      |     |         |        | Ovalue     |
|--------------------------------|------|-----|---------|--------|------------|
| 2) Dichlorodifluoromethane     | 3.07 | 85  | 2276868 | 13.588 | ppbv 98    |
| 3) Chlorodifluoromethane       | 3.01 | 51  | 1439612 | 9.985  | ppbv 98    |
| 4) Chloromethane               | 3.16 | 50  | 704741  | 9.440  | ppbv 97    |
| 5) Vinyl Chloride              | 3.28 | 62  | 700061  | 10.149 | ppbv 96    |
| 6) Bromomethane                | 3.49 | 94  | 361432  | 10.830 | ppbv 98    |
| 7) Chloroethane                | 3.58 | 64  | 228634  | 9.940  | ppbv 97    |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 1626943 | 10.394 | ppbv 99    |
| 9) Propene                     | 3.03 | 41  | 712976  | 9.347  | ppbv 98    |
| 10) Heptane                    | 8.14 | 43  | 1811851 | 9.430  | ppbv 98    |
| 11) Trichlorofluoromethane     | 3.97 | 101 | 1558191 | 11.572 | ppbv 100   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101 | 1175642 | 11.399 | ppbv 96    |
| 13) Ethanol                    | 3.62 | 45  | 17422   | 3.758  | ppbv # 100 |
| 14) Bromoethene                | 3.76 | 108 | 502501  | 11.078 | ppbv 94    |
| 15) Acetone                    | 3.87 | 43  | 1152320 | 9.798  | ppbv 99    |
| 16) 1,3-Butadiene              | 3.35 | 39  | 674252  | 10.028 | ppbv 99    |
| 17) tert-Butyl alcohol         | 4.30 | 59  | 949131  | 8.999  | ppbv 100   |
| 18) 1,1-Dichloroethene         | 4.31 | 96  | 524351  | 11.153 | ppbv 99    |
| 19) Isopropyl Alcohol          | 3.98 | 45  | 570488  | 9.490  | ppbv # 100 |
| 20) Methylene Chloride         | 4.37 | 84  | 429183  | 10.062 | ppbv 92    |
| 21) Allyl Chloride             | 4.43 | 41  | 880057  | 9.994  | ppbv 98    |
| 22) trans-1,2-Dichloroethene   | 4.91 | 96  | 556651  | 11.694 | ppbv 98    |
| 23) Vinyl Acetate              | 5.09 | 43  | 1256892 | 10.974 | ppbv 99    |
| 24) 1,1-Dichloroethane         | 5.03 | 63  | 1115296 | 10.775 | ppbv 99    |
| 25) Ethyl Acetate              | 5.69 | 43  | 2979641 | 9.985  | ppbv 99    |
| 26) Hexane                     | 5.71 | 57  | 1291969 | 9.511  | ppbv 99    |
| 27) Carbon Disulfide           | 4.57 | 76  | 1372706 | 11.020 | ppbv 98    |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73  | 1051402 | 10.022 | ppbv 100   |
| 29) Chloroform                 | 5.77 | 83  | 1977795 | 10.407 | ppbv 97    |
| 30) Cyclohexane                | 7.15 | 84  | 1125605 | 9.402  | ppbv 98    |
| 31) cis-1,2-Dichloroethene     | 5.57 | 61  | 1254466 | 10.044 | ppbv 98    |
| 32) 1,1,1-Trichloroethane      | 6.53 | 97  | 1966627 | 10.270 | ppbv 99    |
| 34) 2-Butanone                 | 5.26 | 43  | 1319704 | 10.354 | ppbv 98    |
| 35) Carbon Tetrachloride       | 7.04 | 117 | 1984961 | 10.265 | ppbv 100   |
| 36) Benzene                    | 6.91 | 78  | 2781668 | 9.480  | ppbv 99    |
| 37) 1,2-Dichloroethane         | 6.33 | 62  | 1488758 | 11.097 | ppbv 98    |
| 38) Trichloroethene            | 7.86 | 130 | 1123034 | 9.328  | ppbv 97    |
| 39) 1,2-Dichloropropane        | 7.64 | 63  | 1072725 | 9.558  | ppbv 98    |
| 40) 1,4-Dioxane                | 7.85 | 88  | 402134  | 10.552 | ppbv # 94  |
| 41) Tetrahydrofuran            | 6.07 | 42  | 1153476 | 9.529  | ppbv 100   |
| 42) Bromodichloromethane       | 7.81 | 83  | 2226360 | 10.509 | ppbv 98    |
| 43) Methyl Methacrylate        | 8.03 | 69  | 1160693 | 10.328 | ppbv 99    |

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 Data File : VL038943.D  
 Acq On : 19 Apr 2022 9:55  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

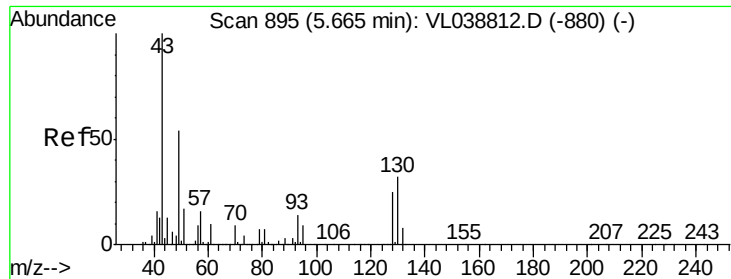
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Apr 20 04:23:16 2022  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Apr 06 06:12:53 2022  
 QLast Update : Wed Apr 06 06:12:53 2022  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.89  | 57   | 4623664  | 9.307  | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.30  | 75   | 1260657  | 10.728 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 1579714  | 10.196 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 1136883  | 9.886  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.33 | 129  | 1843135  | 10.226 | ppbv   | 97       |
| 49) Bromoform                 | 13.06 | 173  | 1491910  | 10.451 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.76  | 43   | 2895670  | 10.100 | ppbv   | 100      |
| 51) 2-Hexanone                | 10.15 | 43   | 2289217  | 10.598 | ppbv   | 98       |
| 52) Tetrachloroethene         | 11.24 | 164  | 947355   | 9.243  | ppbv   | 97       |
| 53) Toluene                   | 9.83  | 91   | 3274853  | 9.668  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 1618072  | 10.129 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 1290817  | 7.831  | ppbv   | 98       |
| 57) Chlorobenzene             | 12.17 | 112  | 2285236  | 7.418  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.73 | 91   | 4371770  | 7.778  | ppbv   | 96       |
| 59) m/p-Xylene                | 13.02 | 91   | 3463802  | 7.335  | ppbv # | 32       |
| 60) o-Xylene                  | 13.71 | 91   | 3390367  | 7.673  | ppbv   | 96       |
| 61) Styrene                   | 13.55 | 104  | 2141399  | 7.955  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.69 | 105  | 4941745  | 7.451  | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 2130170  | 7.611  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.58 | 120  | 1280641  | 7.436  | ppbv   | 87       |
| 65) tert-Butylbenzene         | 16.77 | 119  | 4260970  | 7.241  | ppbv   | 96       |
| 66) Benzyl Chloride           | 17.01 | 91   | 834967   | 6.970  | ppbv   | 95       |
| 67) sec-Butylbenzene          | 17.31 | 105  | 6142544  | 7.439  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.67 | 119  | 5068499  | 7.476  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.57 | 91   | 5425133  | 7.943  | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 15.47 | 91   | 3854943  | 7.730  | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 15.86 | 105  | 4091969  | 7.755  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 3668795  | 7.740  | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.78 | 105  | 3833151  | 7.650  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 2221806  | 7.637  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.16 | 146  | 2185634  | 7.627  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.84 | 146  | 2172646  | 7.576  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.39 | 225  | 1530145  | 6.753  | ppbv   | 99       |
| 79) Naphthalene               | 22.21 | 128  | 3127543  | 8.344  | ppbv   | 99       |
| 80) Naphthalene, 2-methyl-    | 24.99 | 142  | 723213   | 7.830  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 1723196  | 7.856  | ppbv   | 99       |

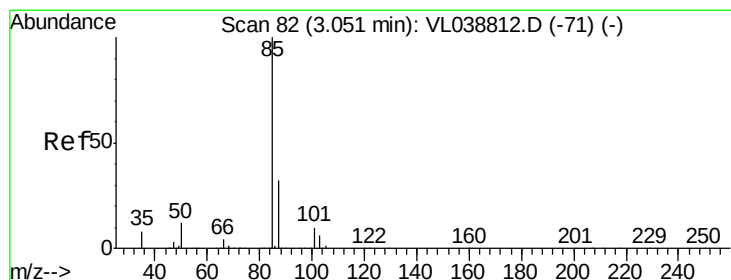
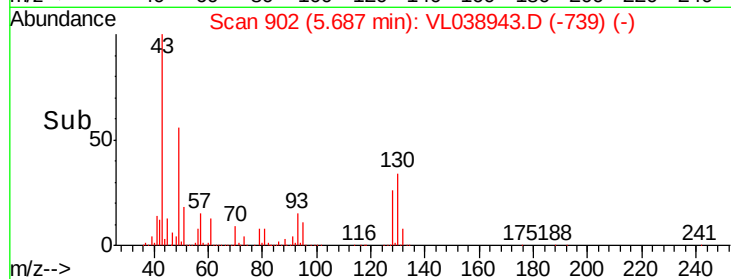
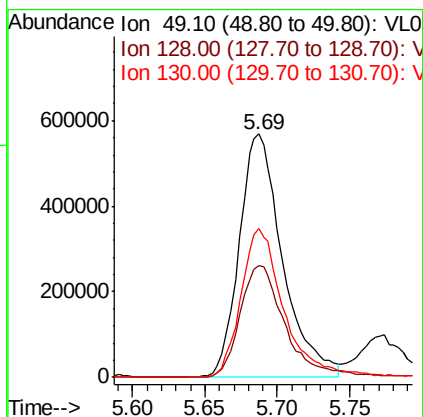
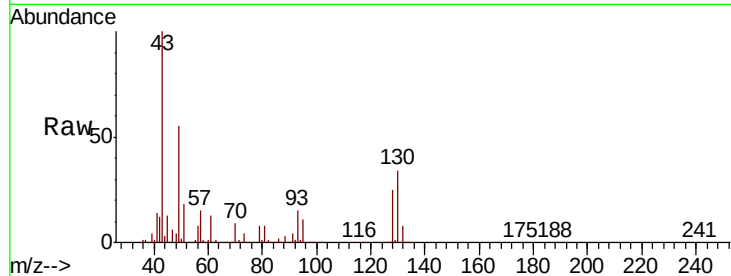
(#) = qualifier out of range (m) = manual integration (+) = signals summed





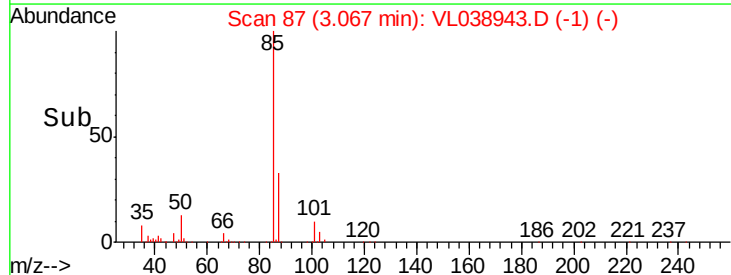
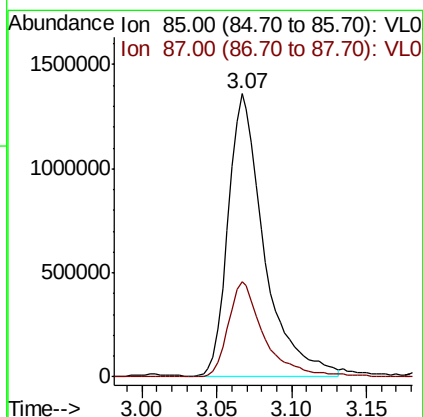
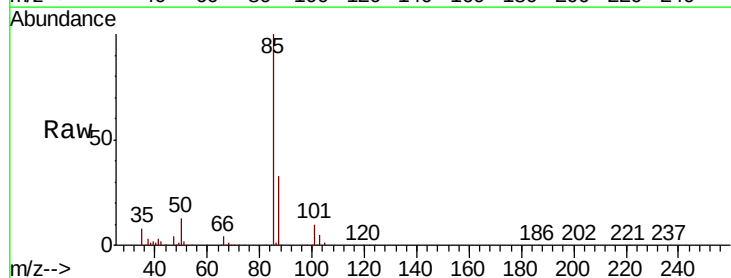
#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.69  
 Instrument: MSVOA\_L  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010  
 Acq: 19 Apr 2022 9:55

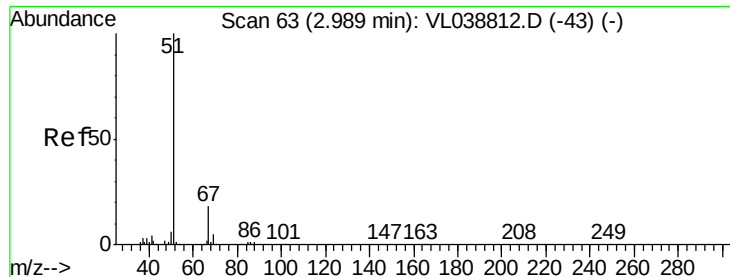
Tot Ion: 49 Resp: 1181333  
 Ion Ratio Lower Upper  
 49 100  
 128 48.7 24.1 72.3  
 130 62.4 30.9 92.8



#2  
 Dichlorodifluoromethane  
 Concen: 13.588 ppbv  
 RT: 3.07 min Scan# 87  
 Delta R.T. 0.02 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

Tgt Ion: 85 Resp: 2276868  
 Ion Ratio Lower Upper  
 85 100  
 87 33.4 25.9 38.9





#3

Chlorodifluoromethane

Concen: 9.985 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

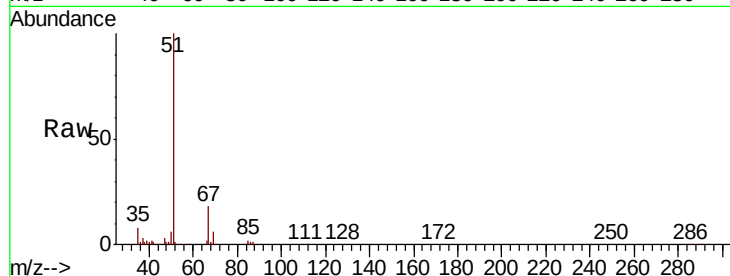
Acq: 19 Apr 2022 9:55

Tot Ion: 51 Resp: 1439612

Ion Ratio Lower Upper

51 100

67 17.5 13.4 20.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.01

800000

600000

400000

200000

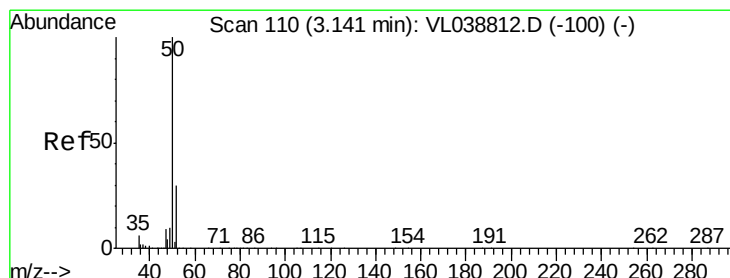
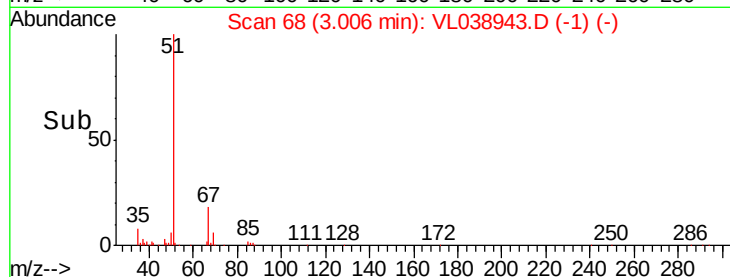
0

Time-->

2.90

3.00

3.10



#4

Chloromethane

Concen: 9.440 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.02 min

Lab File: VL038943.D

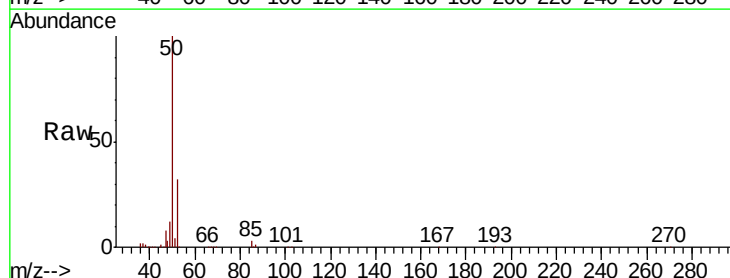
Acq: 19 Apr 2022 9:55

Tgt Ion: 50 Resp: 704741

Ion Ratio Lower Upper

50 100

52 32.2 24.3 36.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

500000

400000

300000

200000

100000

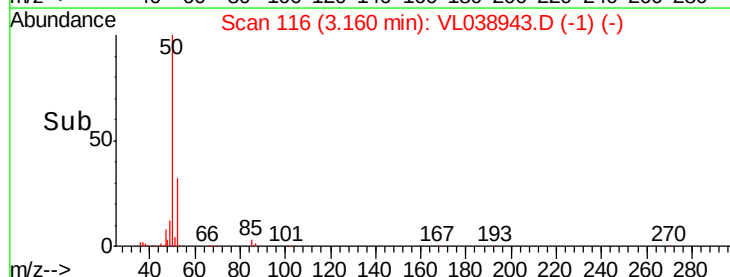
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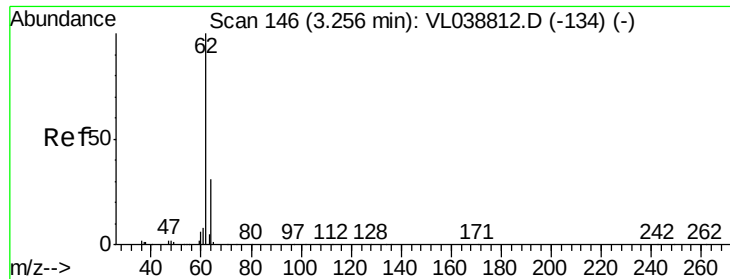
Time-->

3.10

3.15

3.20





#5

Vinyl Chloride

Concen: 10.149 ppbv

RT: 3.28 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

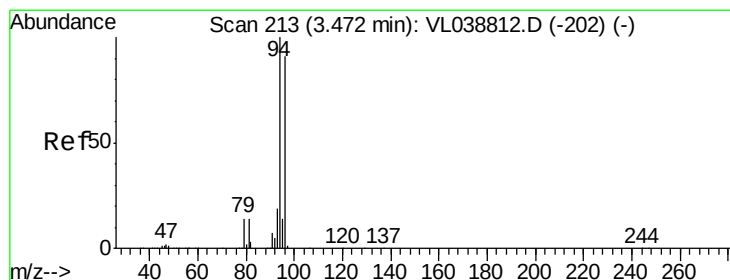
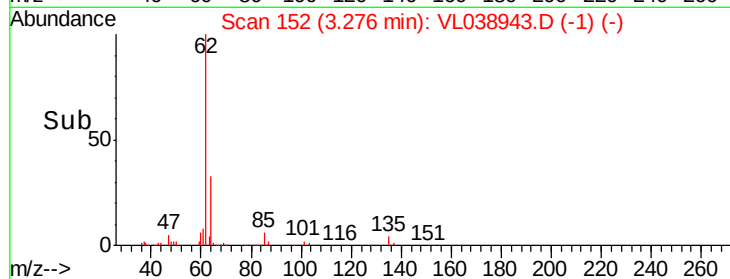
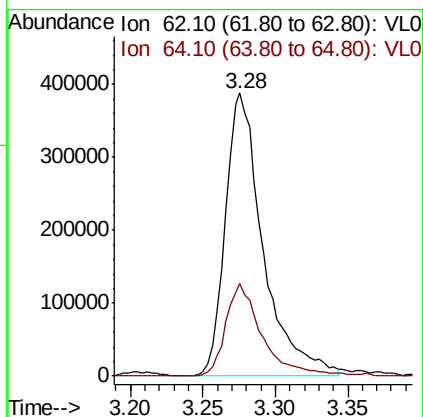
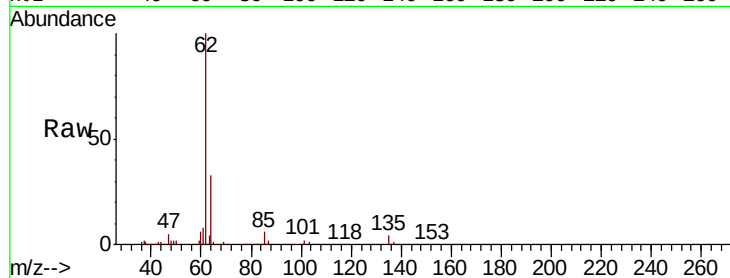
Acq: 19 Apr 2022 9:55

Tot Ion: 62 Resp: 700061

Ion Ratio Lower Upper

62 100

64 32.8 24.6 37.0



#6

Bromomethane

Concen: 10.830 ppbv

RT: 3.49 min Scan# 220

Delta R.T. 0.02 min

Lab File: VL038943.D

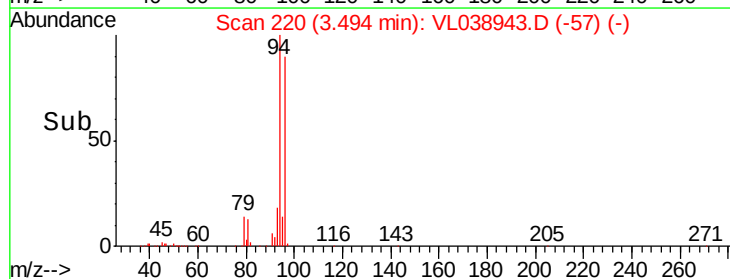
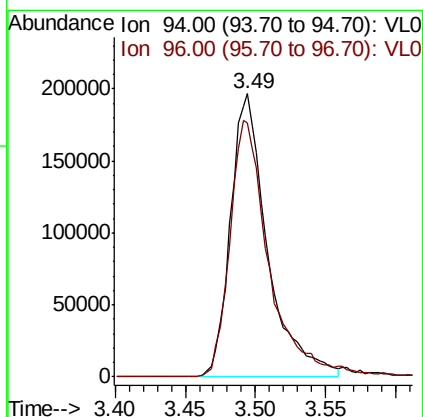
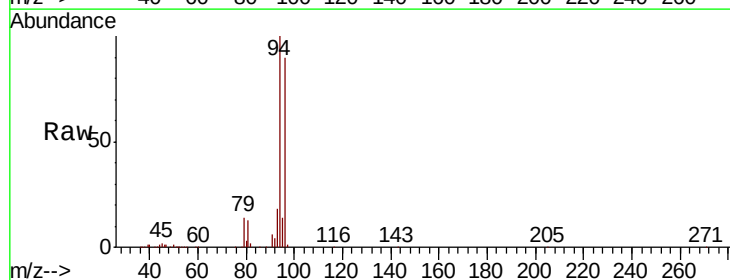
Acq: 19 Apr 2022 9:55

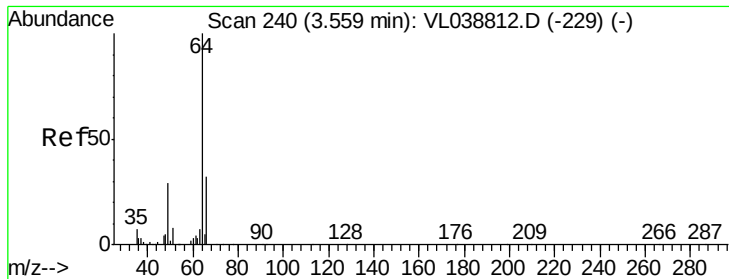
Tgt Ion: 94 Resp: 361432

Ion Ratio Lower Upper

94 100

96 89.9 73.2 109.8





#7

Chloroethane

Concen: 9.940 ppbv

RT: 3.58 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

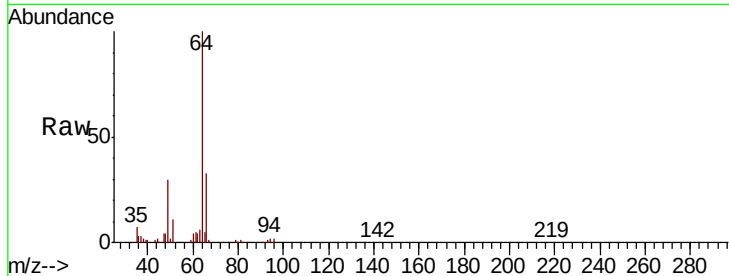
Acq: 19 Apr 2022 9:55 VSTDCCC010

Tot Ion: 64 Resp: 228634

Ion Ratio Lower Upper

64 100

66 33.4 25.4 38.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

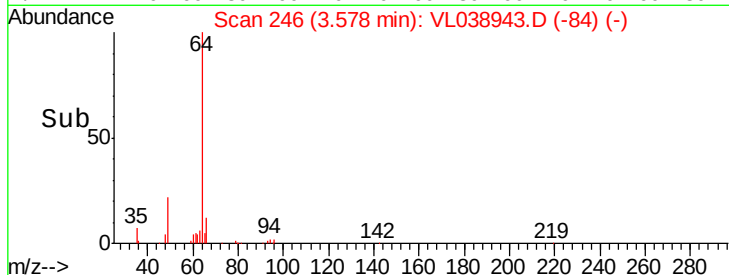
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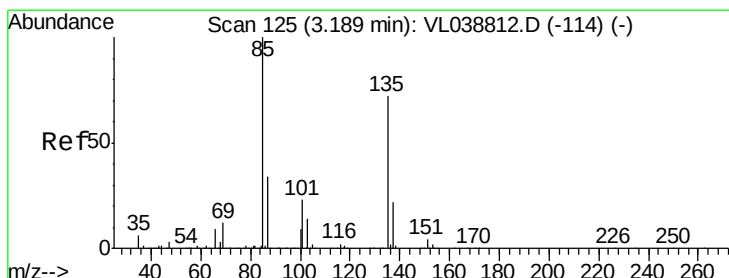
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3.58

3.50 3.55 3.60



Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.394 ppbv

RT: 3.20 min Scan# 130

Delta R.T. 0.02 min

Lab File: VL038943.D

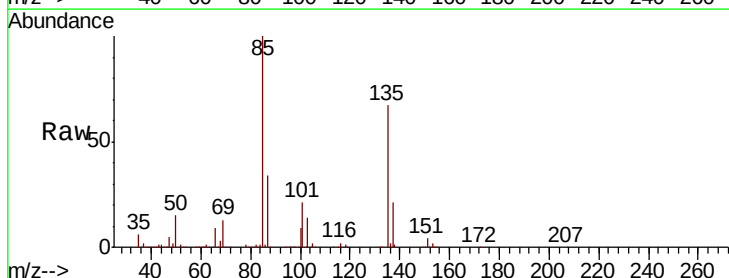
Acq: 19 Apr 2022 9:55

Tgt Ion: 85 Resp: 1626943

Ion Ratio Lower Upper

85 100

135 70.8 57.0 85.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

600000

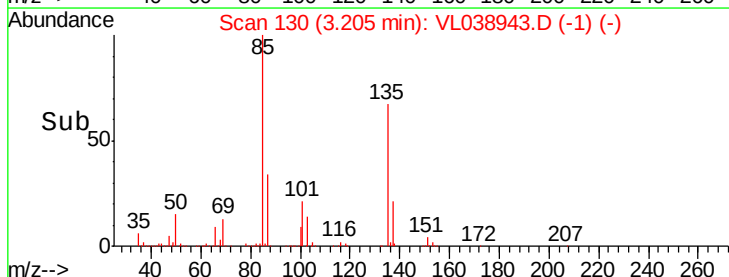
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200000

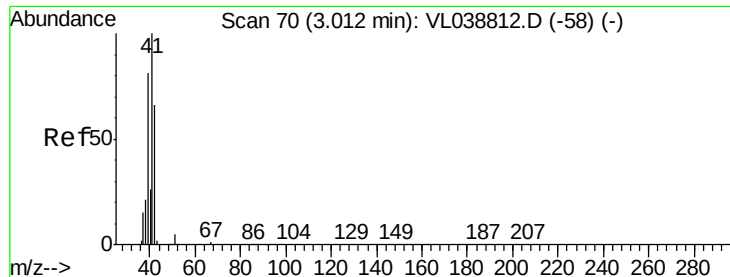
0

3.20

3.15 3.20 3.25 3.30



Time-->



#9

Propene

Concen: 9.347 ppbv

RT: 3.03 Instrument: MSVOA\_1

Delta R.T. 0.03

Lab File: ClientSampleId: VSTDCCC010

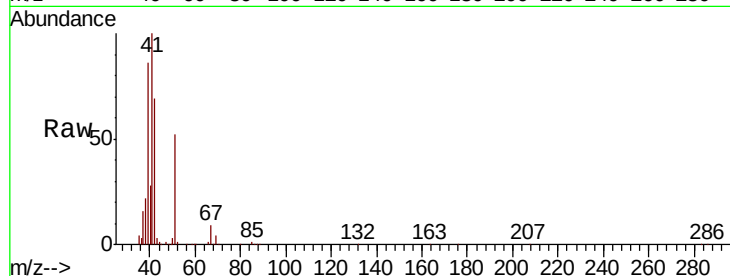
Acq: 19 Apr 2022 9:55

Tot Ion: 41 Resp: 712976

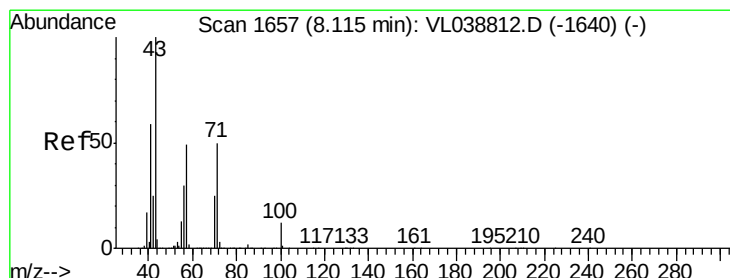
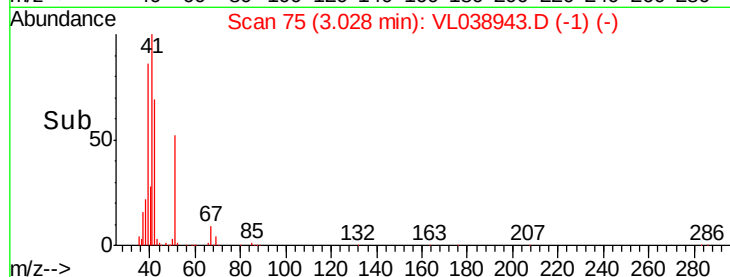
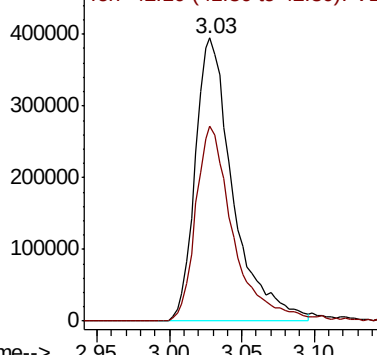
Ion Ratio Lower Upper

41 100

42 69.4 54.2 81.4



Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.430 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.03 min

Lab File: VL038943.D

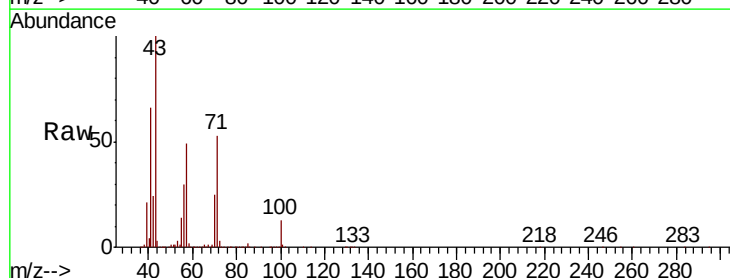
Acq: 19 Apr 2022 9:55

Tgt Ion: 43 Resp: 1811851

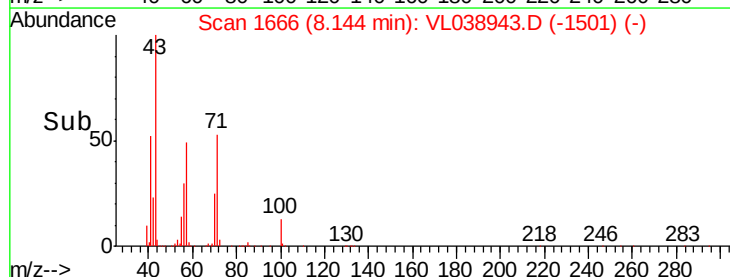
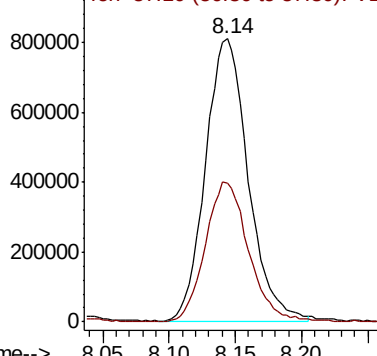
Ion Ratio Lower Upper

43 100

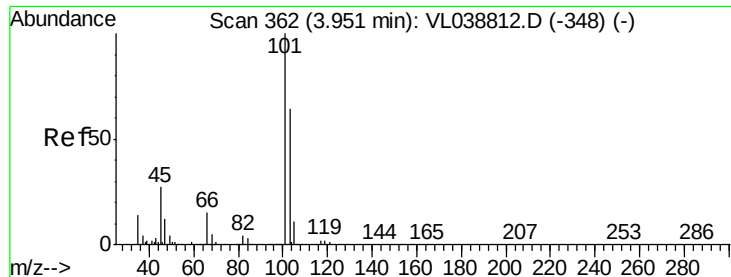
57 50.7 39.3 58.9



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0

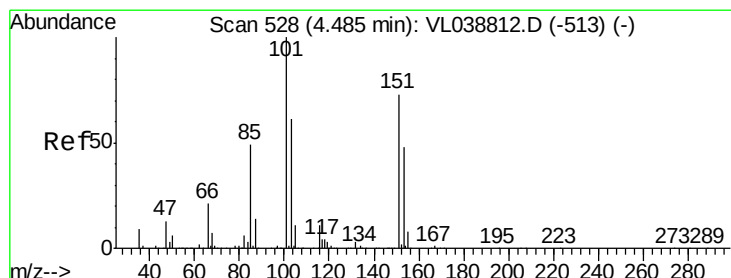
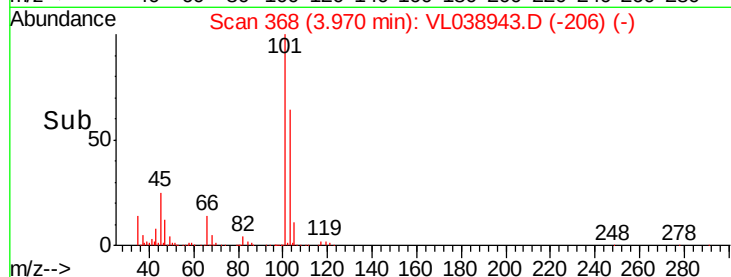
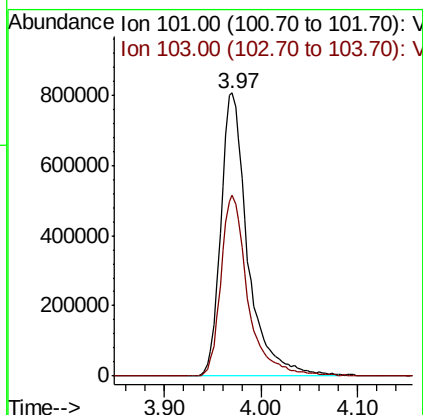
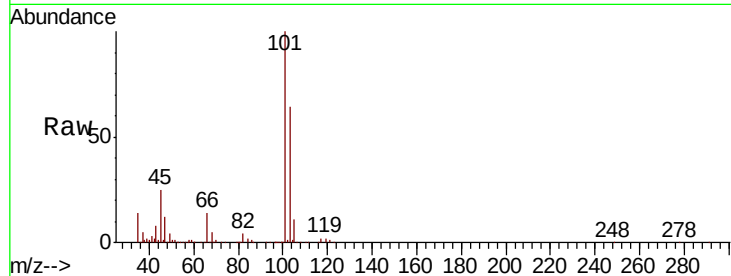






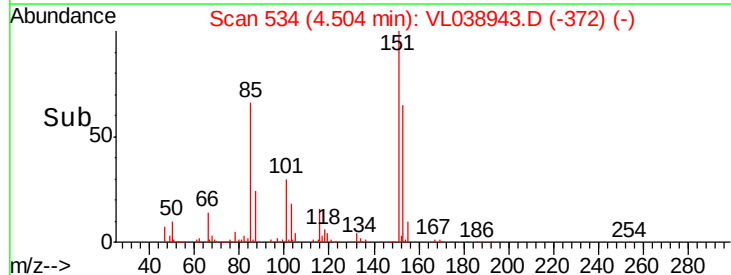
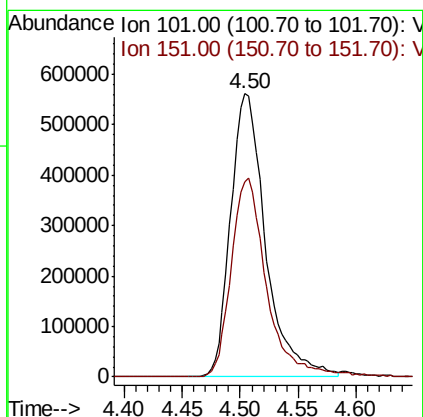
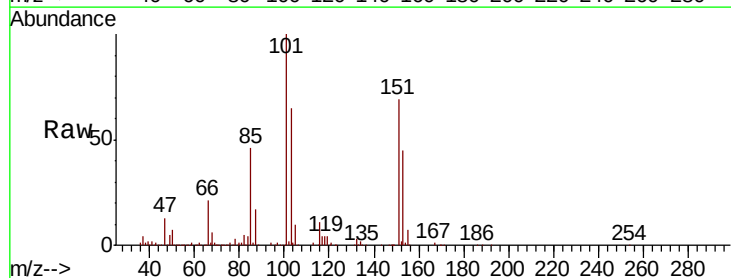
#11  
 Trichlorofluoromethane  
 Concen: 11.572 ppbv  
 RT: 3.97 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010  
 Acq: 19 Apr 2022 9:55

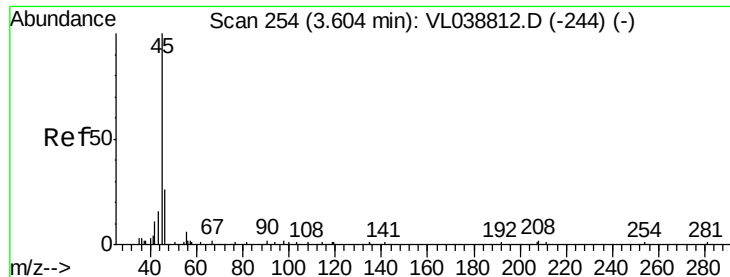
Tot Ion:101 Resp: 1558191  
 Ion Ratio Lower Upper  
 101 100  
 103 64.1 51.4 77.0



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 11.399 ppbv  
 RT: 4.50 min Scan# 534  
 Delta R.T.: 0.02 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

Tgt Ion:101 Resp: 1175642  
 Ion Ratio Lower Upper  
 101 100  
 151 71.3 59.9 89.9





#13

Ethanol

Concen: 3.758 ppbv

RT: 3.62 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

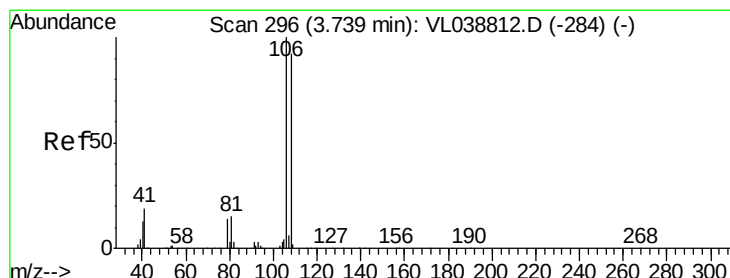
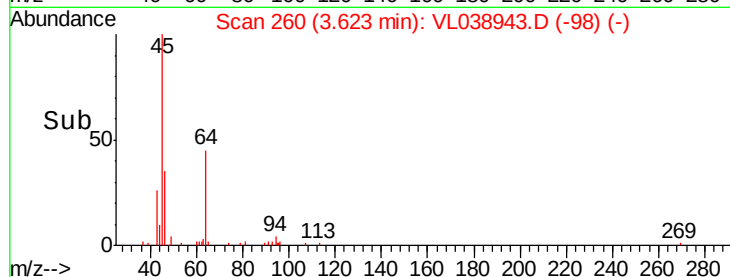
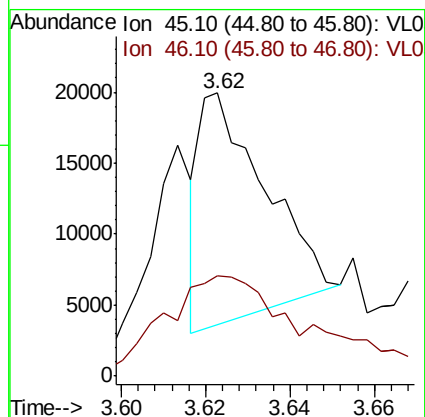
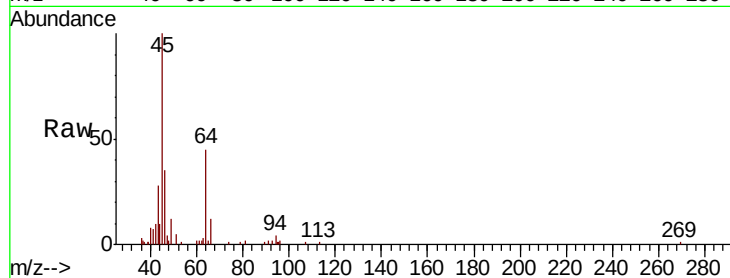
Acq: 19 Apr 2022 9:55

Tot Ion: 45 Resp: 17422

Ion Ratio Lower Upper

45 100

46 109.0 0.0 0.0#



#14

Bromoethene

Concen: 11.078 ppbv

RT: 3.76 min Scan# 302

Delta R.T. 0.02 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

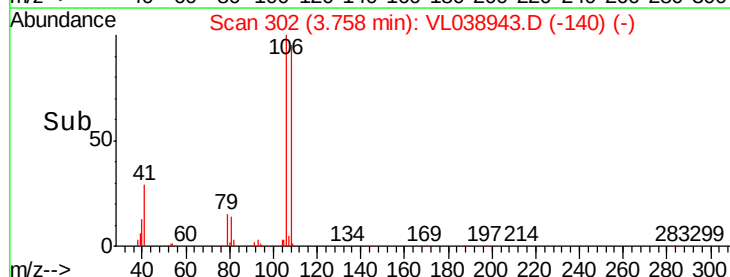
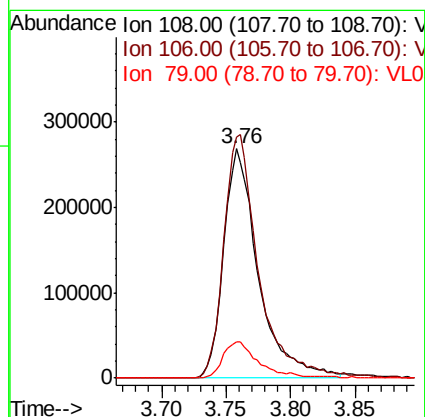
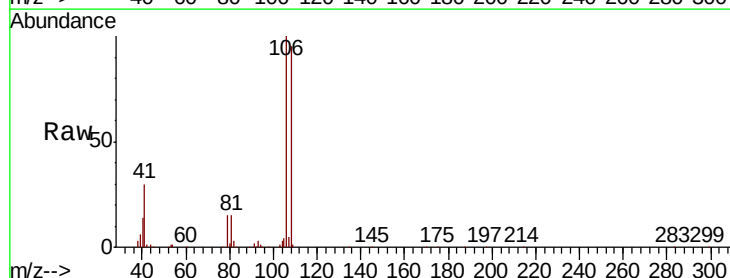
Tgt Ion:108 Resp: 502501

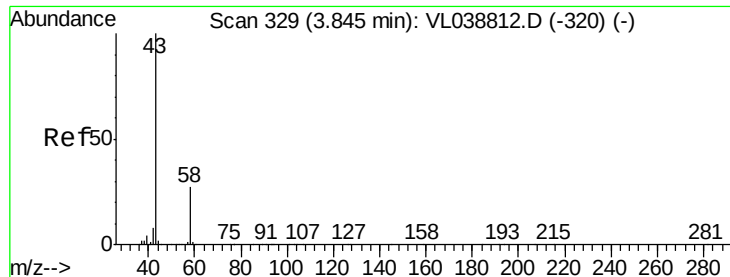
Ion Ratio Lower Upper

108 100

106 107.3 91.5 137.3

79 17.0 13.7 20.5





#15

Acetone

Concen: 9.798 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

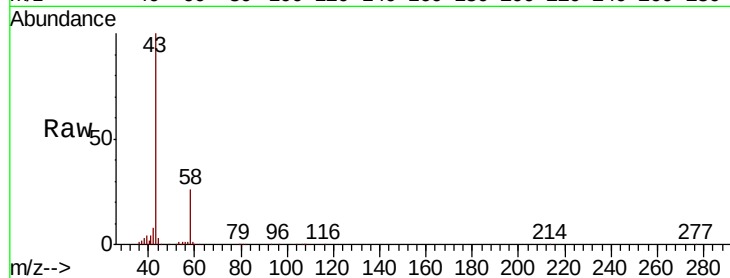
Acq: 19 Apr 2022 9:55

Tot Ion: 43 Resp: 1152320

Ion Ratio Lower Upper

43 100

58 28.5 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.87

600000

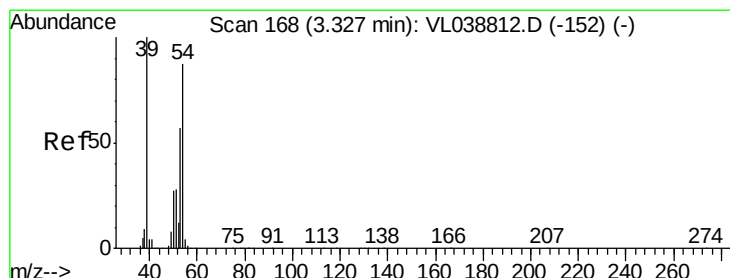
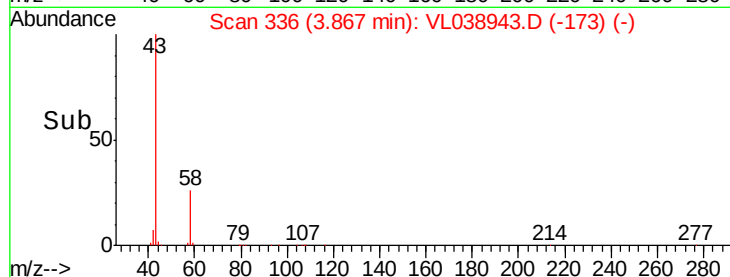
400000

200000

0

3.80 3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 10.028 ppbv

RT: 3.35 min Scan# 174

Delta R.T. 0.02 min

Lab File: VL038943.D

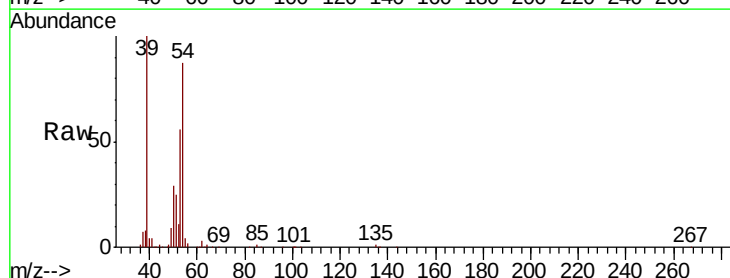
Acq: 19 Apr 2022 9:55

Tgt Ion: 39 Resp: 674252

Ion Ratio Lower Upper

39 100

54 82.1 64.8 97.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

400000

300000

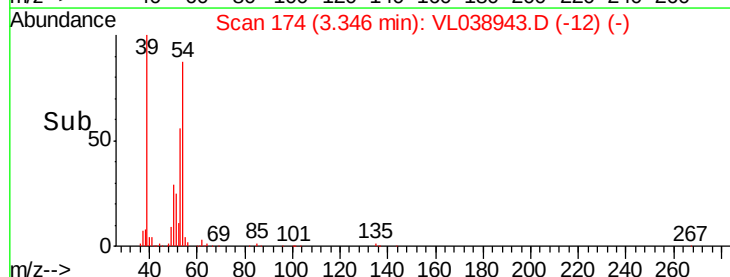
200000

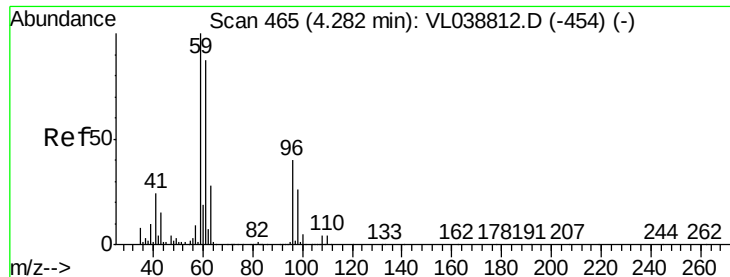
100000

0

3.25 3.30 3.35 3.40 3.45

Time-->





#17

tert-Butyl alcohol

Concen: 8.999 ppbv

RT: 4.30 Instrument: MSVOA\_1

Delta R.T.

Lab File: ClientSampleId:

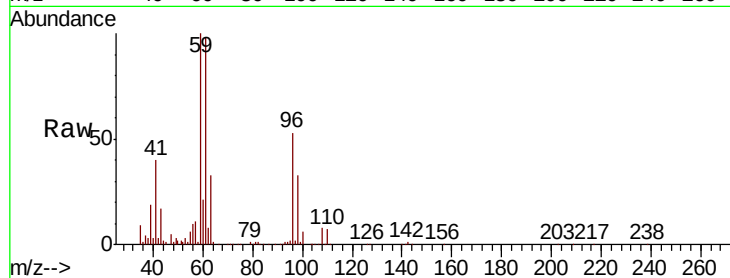
Acq: 19 Apr 2022 9:55

Tot Ion: 59 Resp: 949131

Ion Ratio Lower Upper

59 100

57 10.4 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.30

400000

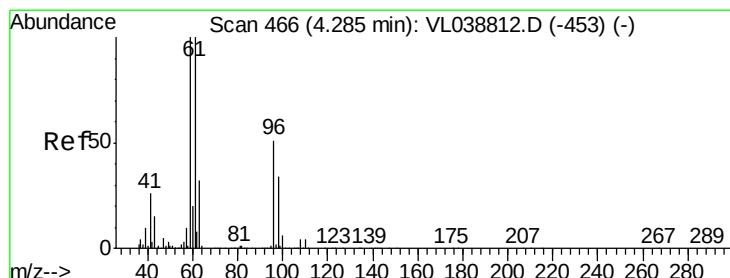
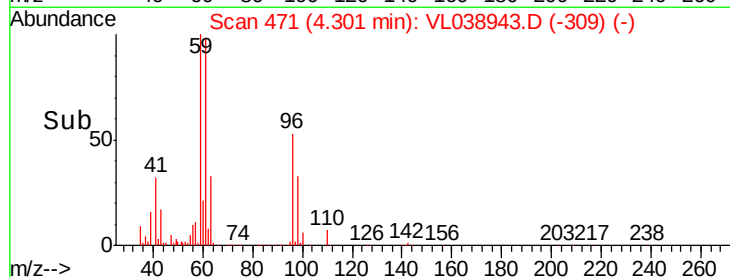
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 11.153 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.02 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

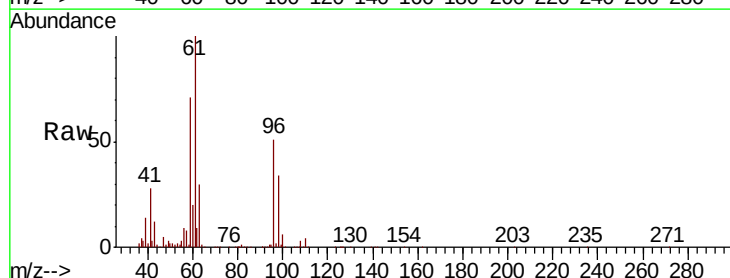
Tgt Ion: 96 Resp: 524351

Ion Ratio Lower Upper

96 100

61 196.7 156.1 234.1

98 66.9 53.0 79.6



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

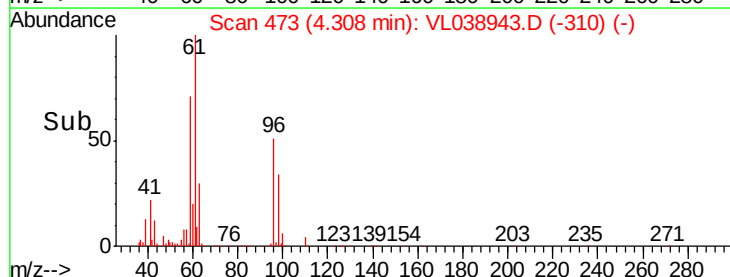
600000

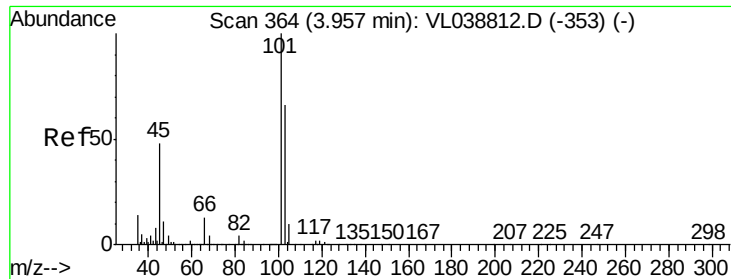
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 9.490 ppbv

RT: 3.98 Instrument: MSVOA\_1

Delta R.T. 0.02 min

Lab File: ClientSampleId: VSTDCCC010

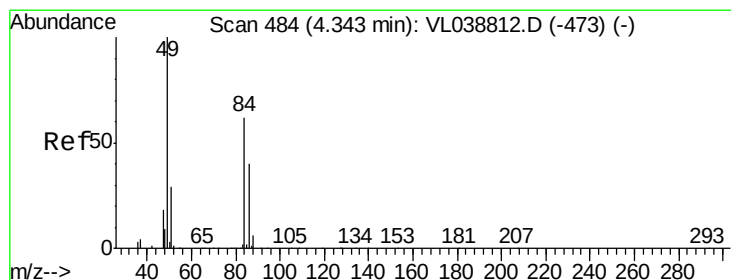
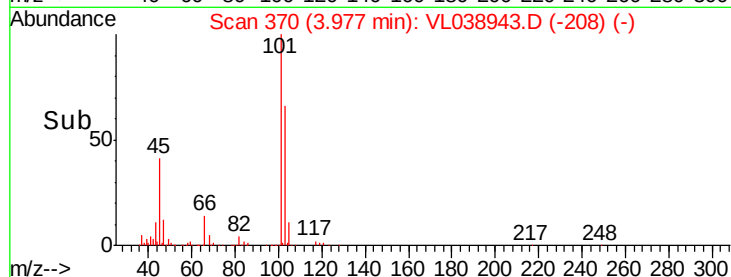
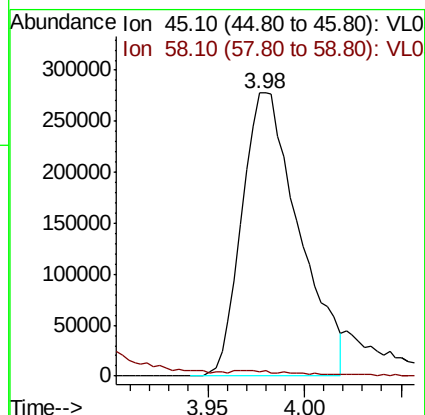
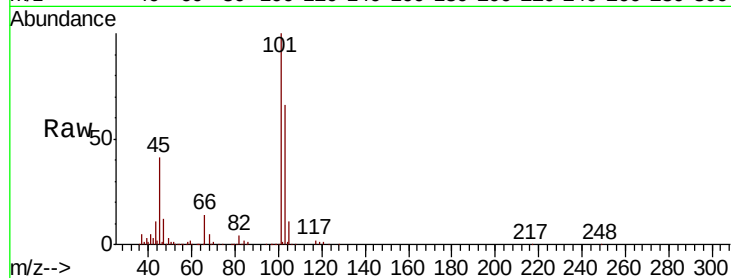
Acq: 19 Apr 2022 9:55

Tot Ion: 45 Resp: 570488

Ion Ratio Lower Upper

45 100

58 1.6 0.0 0.0#



#20

Methylene Chloride

Concen: 10.062 ppbv

RT: 4.37 min Scan# 491

Delta R.T. 0.02 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

Tgt Ion: 84 Resp: 429183

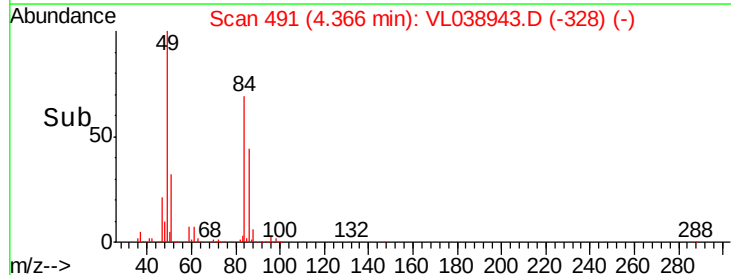
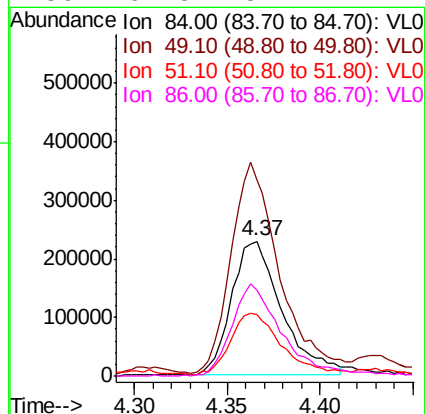
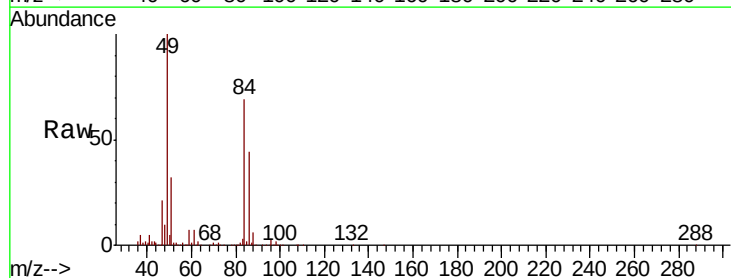
Ion Ratio Lower Upper

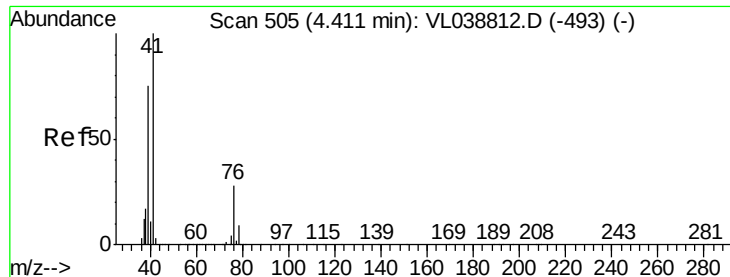
84 100

49 144.5 129.4 194.0

51 45.1 37.4 56.2

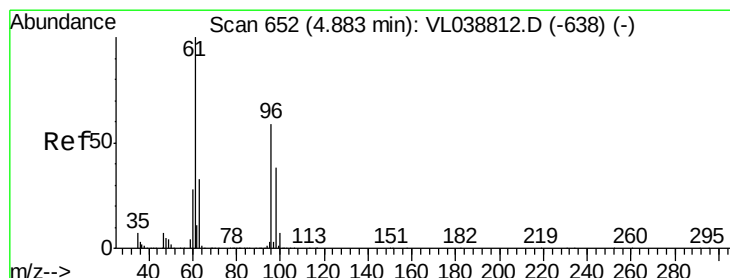
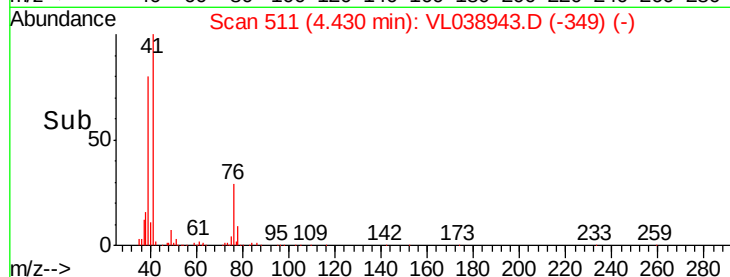
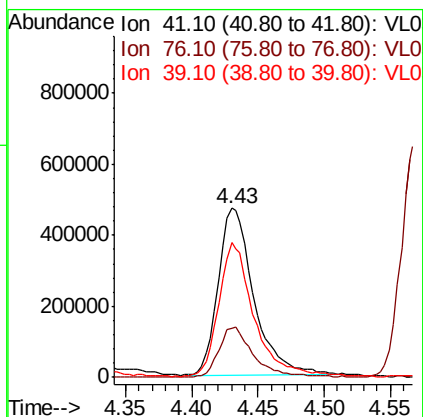
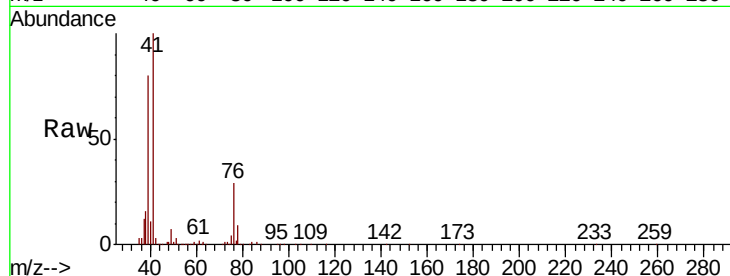
86 64.3 51.4 77.2





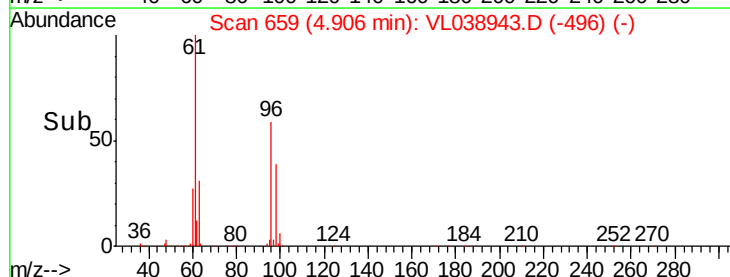
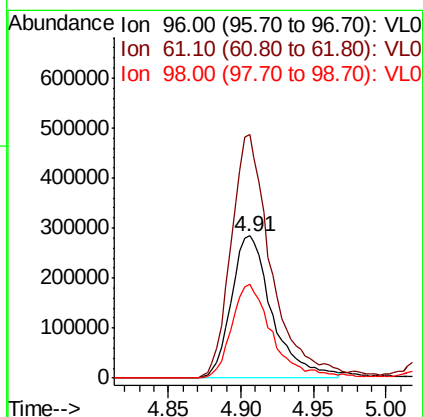
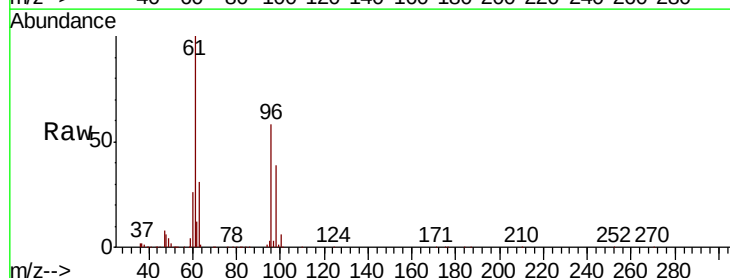
#21  
 Allvl Chloride  
 Concen: 9.994 ppbv  
 RT: 4.43  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 19 Apr 2022 9:55

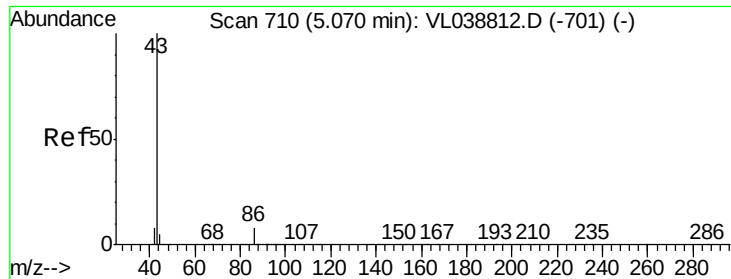
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 41    | Resp: | 880057 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 29.8  | 23.7  | 35.5   |
| 39       | 79.7  | 62.0  | 93.0   |



#22  
 trans-1,2-Dichloroethene  
 Concen: 11.694 ppbv  
 RT: 4.91 min Scan# 659  
 Delta R.T. 0.02 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 556651 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 170.9 | 134.8 | 202.2  |
| 98       | 66.2  | 51.9  | 77.9   |

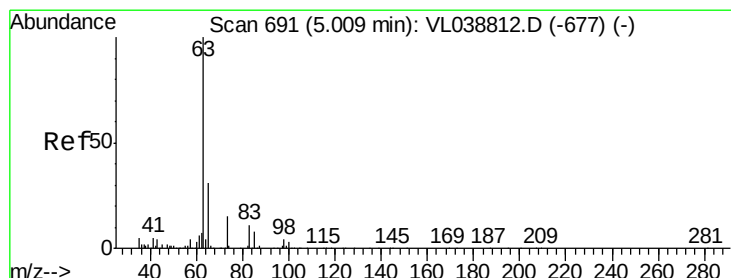
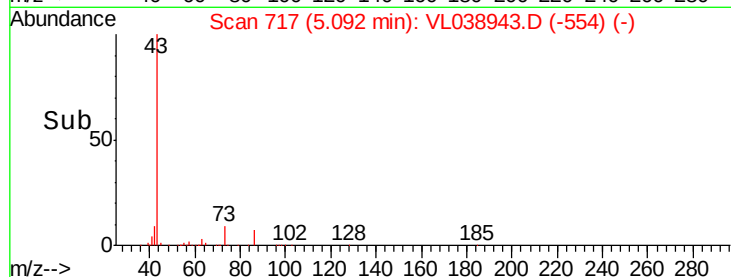
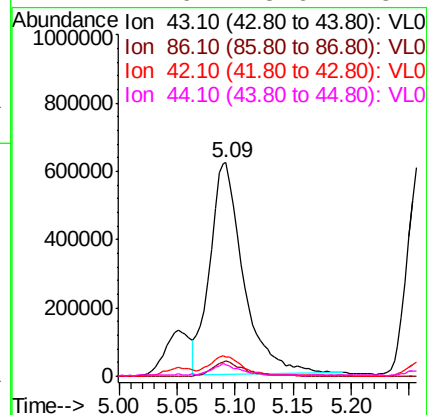
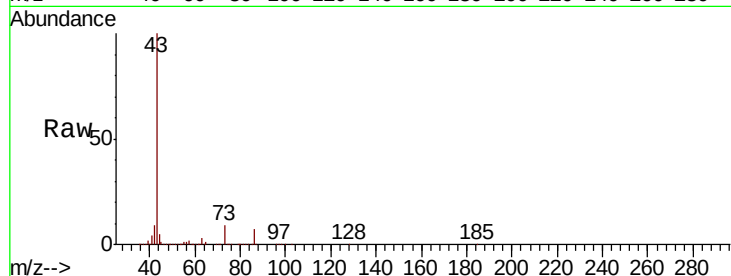




#23  
 Vinyl Acetate  
 Concen: 10.974 ppbv  
 RT: 5.09  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010  
 Acq: 19 Apr 2022 9:55

Tot Ion: 43 Resp: 1256892

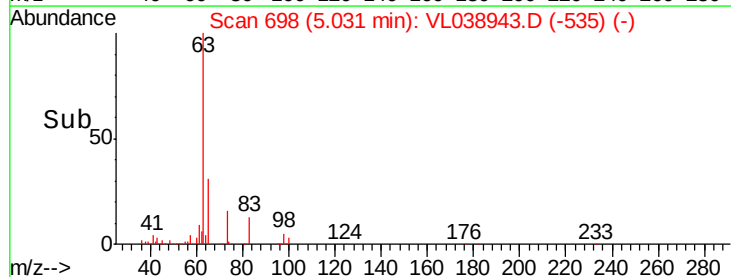
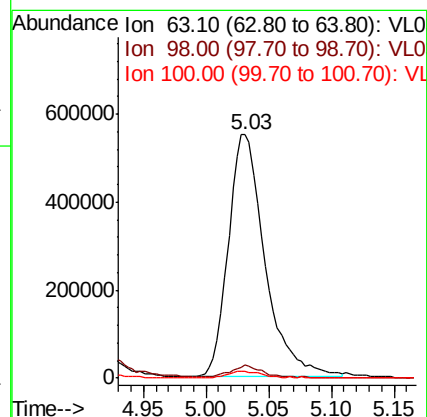
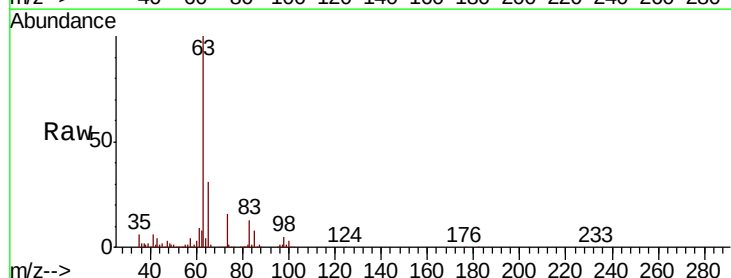
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.0   | 5.8   | 8.6   |
| 42  | 9.0   | 7.8   | 11.6  |
| 44  | 4.6   | 3.6   | 5.4   |

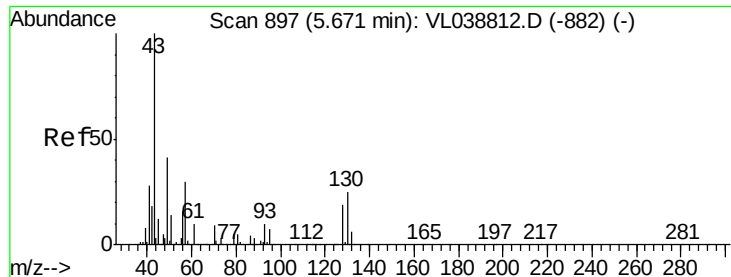


#24  
 1,1-Dichloroethane  
 Concen: 10.775 ppbv  
 RT: 5.03 min Scan# 698  
 Delta R.T.: 0.02 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

Tgt Ion: 63 Resp: 1115296

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.9   | 2.2   | 6.6   |
| 100 | 2.7   | 1.4   | 4.0   |

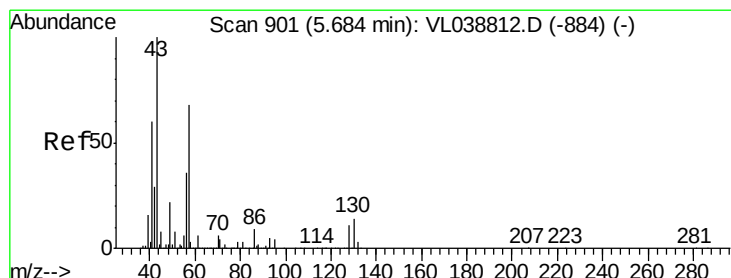
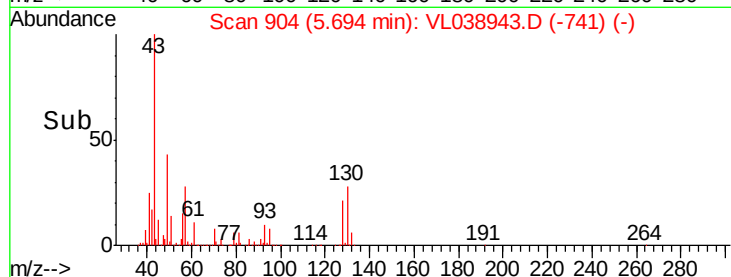
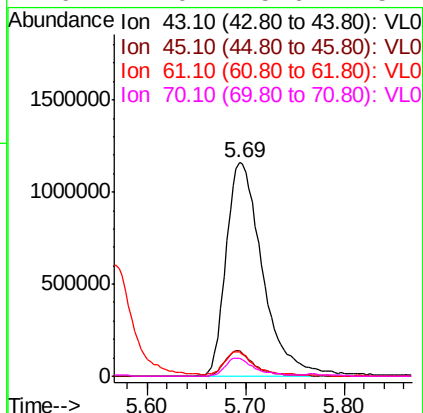
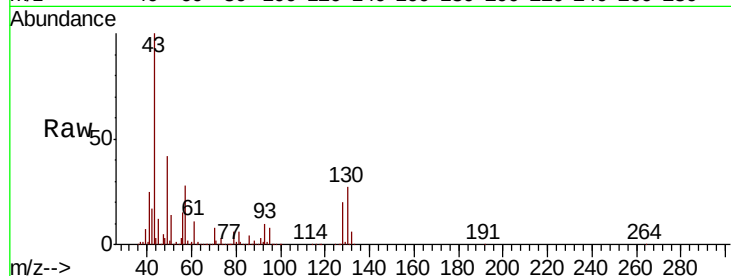




#25  
Ethyl Acetate  
Concen: 9.985 ppbv  
RT: 5.69 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 19 Apr 2022 9:55

Tot Ion: 43 Resp: 2979641

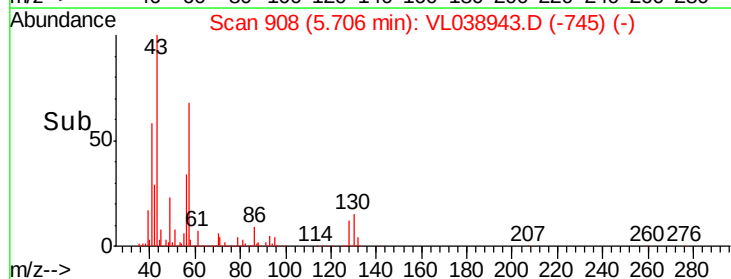
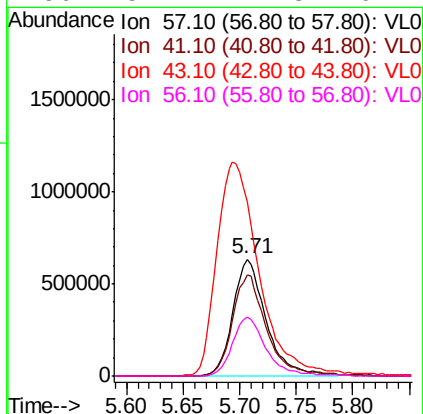
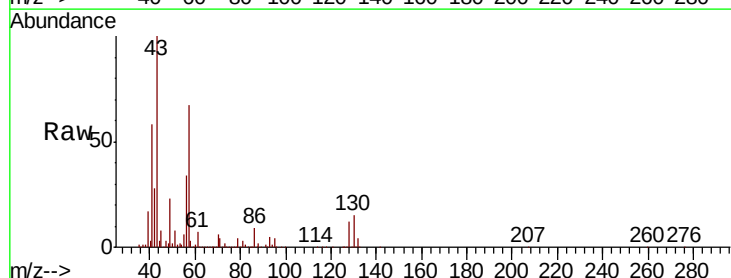
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.9   | 8.4   | 12.6  |
| 61  | 10.2  | 7.9   | 11.9  |
| 70  | 7.0   | 5.6   | 8.4   |



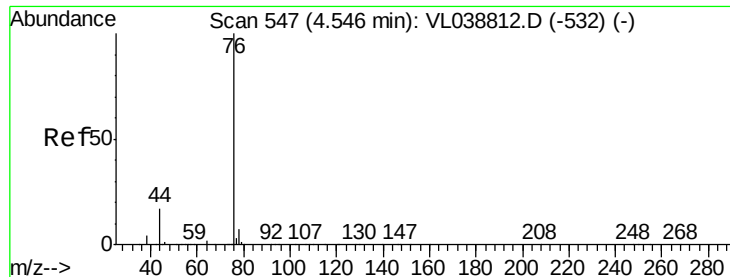
#26  
Hexane  
Concen: 9.511 ppbv  
RT: 5.71 min Scan# 908  
Delta R.T.: 0.02 min  
Lab File: VL038943.D  
Acq: 19 Apr 2022 9:55

Tgt Ion: 57 Resp: 1291969

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 90.1  | 72.0  | 108.0 |
| 43  | 233.6 | 186.6 | 280.0 |
| 56  | 51.7  | 42.8  | 64.2  |







#27

Carbon Disulfide

Concen: 11.020 ppbv

RT: 4.57 Instrument: MSVOA\_1

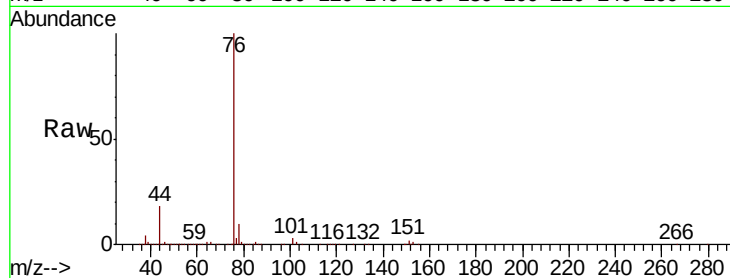
Delta R.T. 0.03 min

Lab File: ClientSampleId: VSTDCCC010

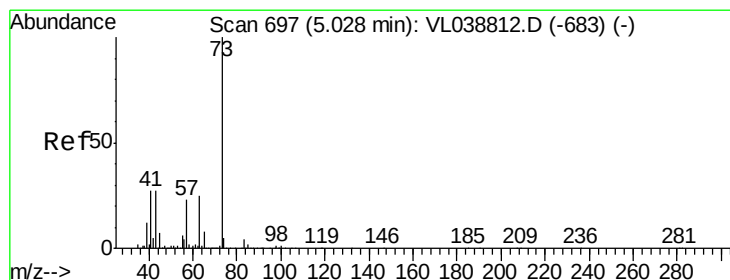
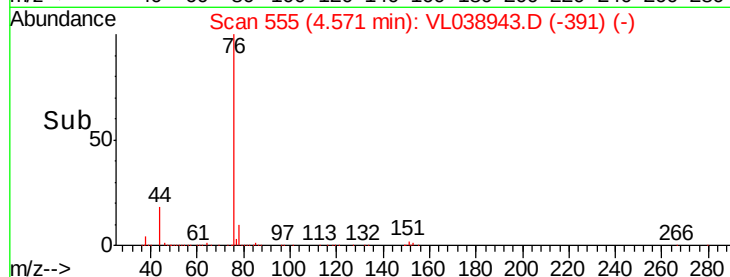
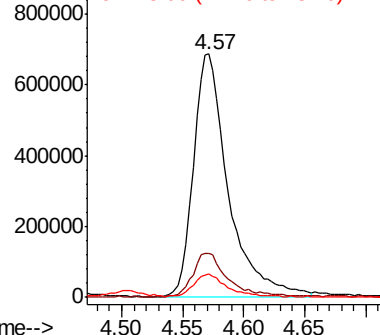
Acq: 19 Apr 2022 9:55

Tot Ion: 76 Resp: 1372706

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 18.3  | 15.7  | 23.5  |
| 78  | 10.0  | 7.8   | 11.8  |



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: 10.022 ppbv

RT: 5.05 min Scan# 705

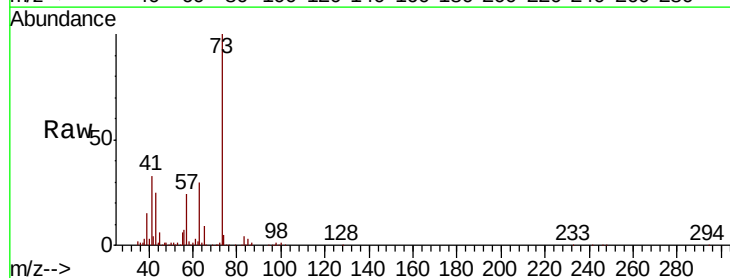
Delta R.T. 0.03 min

Lab File: VL038943.D

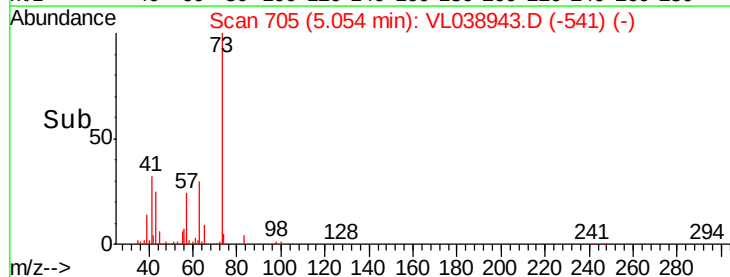
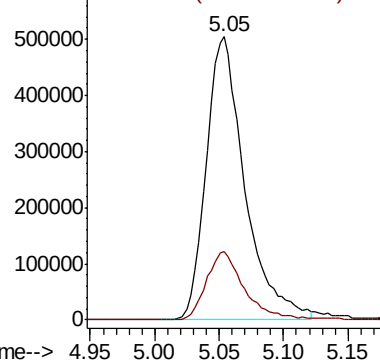
Acq: 19 Apr 2022 9:55

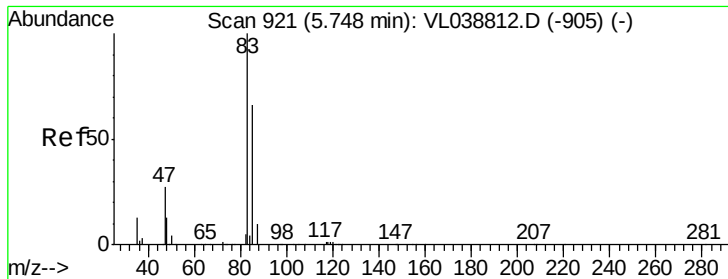
Tgt Ion: 73 Resp: 1051402

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 24.4  | 19.7  | 29.5  |



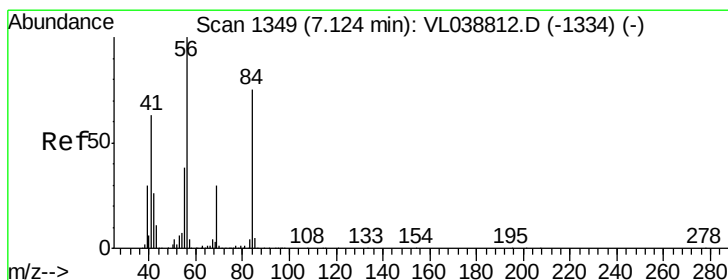
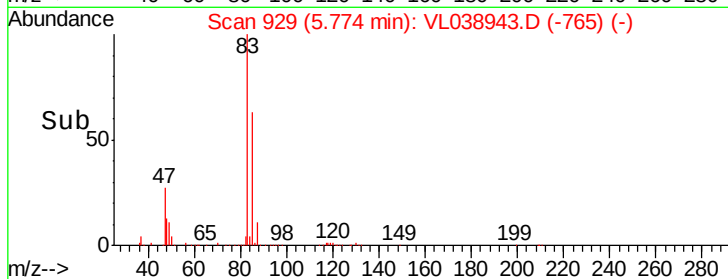
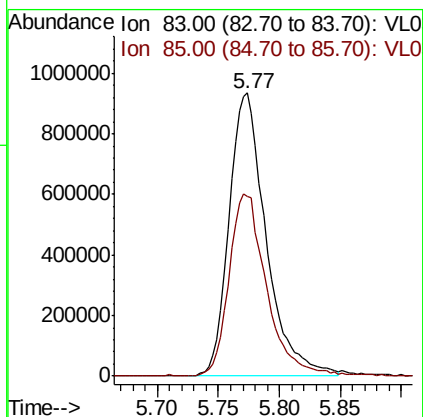
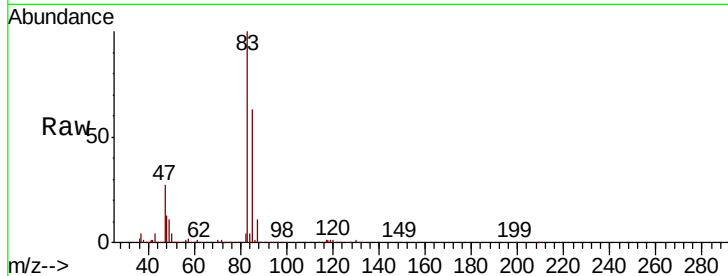
Abundance Ion 73.10 (72.80 to 73.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0





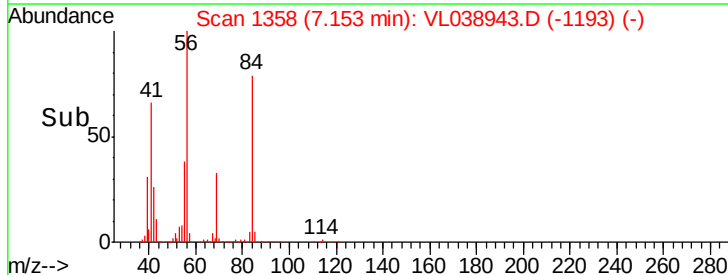
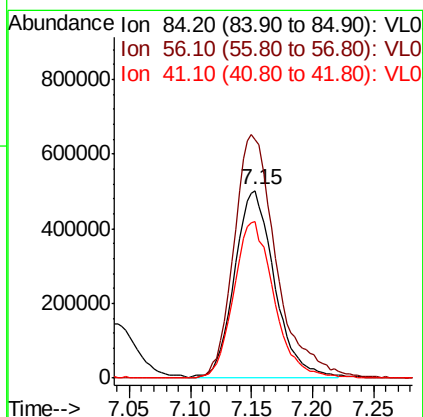
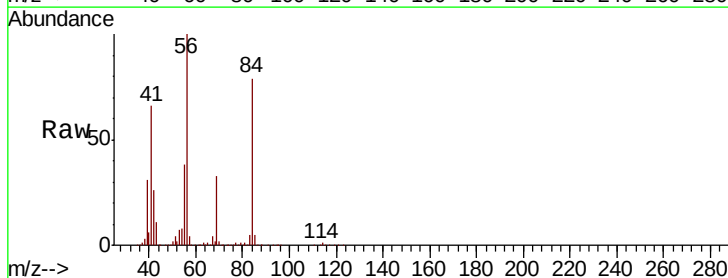
#29  
Chloroform  
Concen: 10.407 ppbv  
RT: 5.77  
Instrument: MSVOA\_L  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 19 Apr 2022 9:55

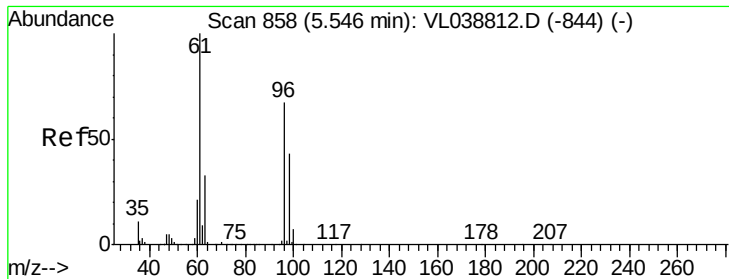
Tot Ion: 83 Resp: 1977795  
Ion Ratio Lower Upper  
83 100  
85 63.4 52.5 78.7



#30  
Cyclohexane  
Concen: 9.402 ppbv  
RT: 7.15 min Scan# 1358  
Delta R.T.: 0.03 min  
Lab File: VL038943.D  
Acq: 19 Apr 2022 9:55

Tgt Ion: 84 Resp: 1125605  
Ion Ratio Lower Upper  
84 100  
56 140.4 114.4 171.6  
41 85.0 69.0 103.4

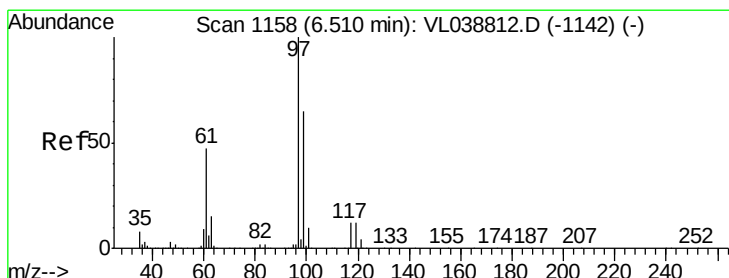
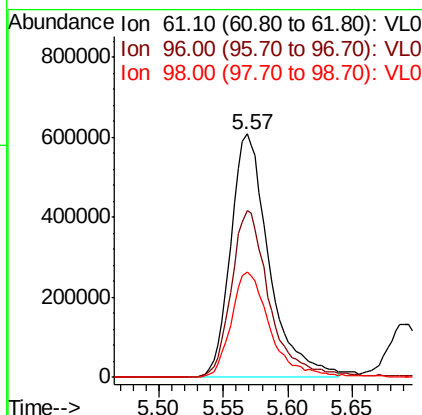
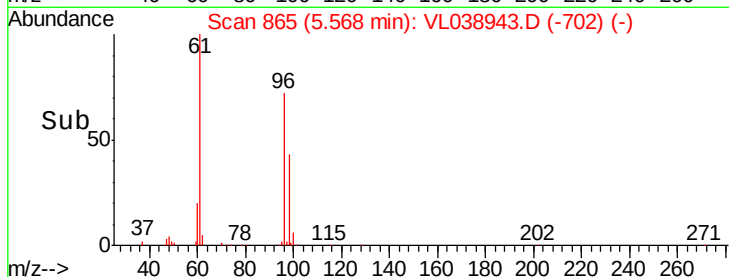
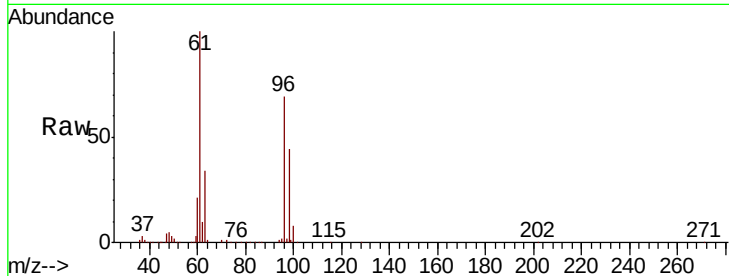




#31  
 cis-1,2-Dichloroethene  
 Concen: 10.044 ppbv  
 RT: 5.57  
 Delta R.T. MSVOA\_1  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Apr 2022 9:55

Tot Ion: 61 Resp: 1254466

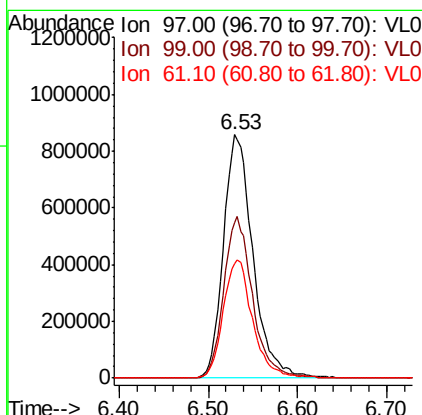
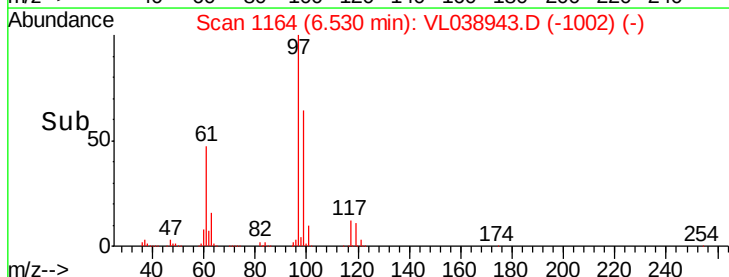
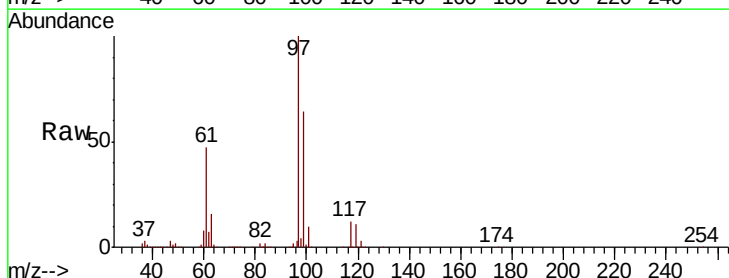
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 61  | 100   |       |       |
| 96  | 68.6  | 53.4  | 80.0  |
| 98  | 43.5  | 34.2  | 51.4  |

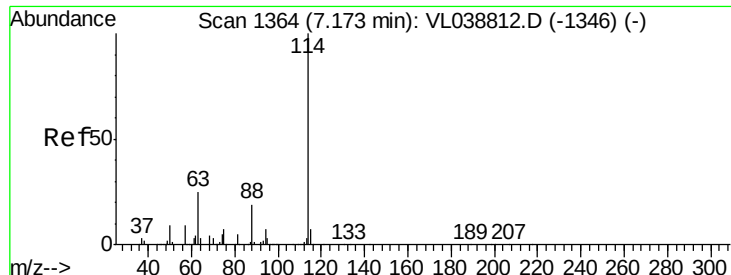


#32  
 1,1,1-Trichloroethane  
 Concen: 10.270 ppbv  
 RT: 6.53 min Scan# 1164  
 Delta R.T. 0.02 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

Tgt Ion: 97 Resp: 1966627

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 64.7  | 52.4  | 78.6  |
| 61  | 48.6  | 38.6  | 57.8  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 Instrument: MSVOA\_1

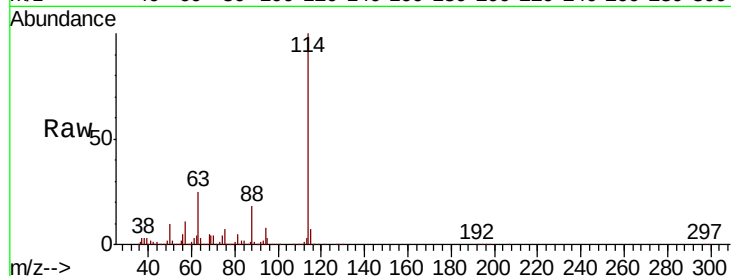
Delta R.T. ClientSampleId:

Lab File: VSTDCCC010

Acq: 19 Apr 2022 9:55

Tot Ion: 114 Resp: 3225506

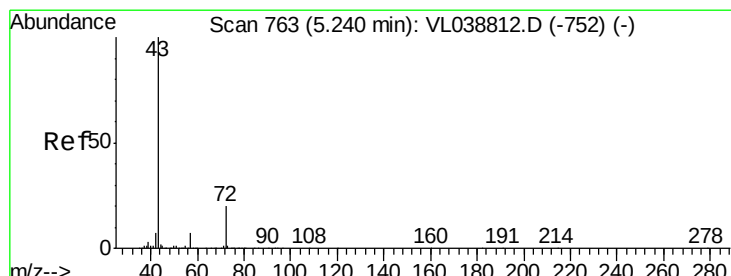
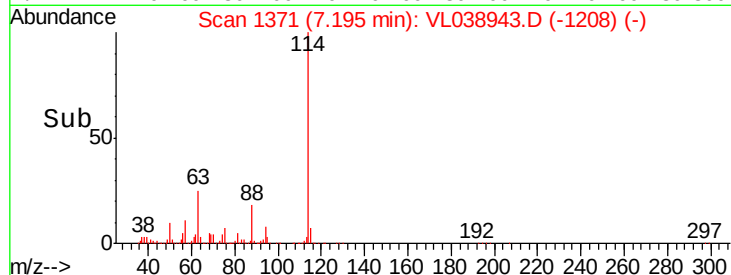
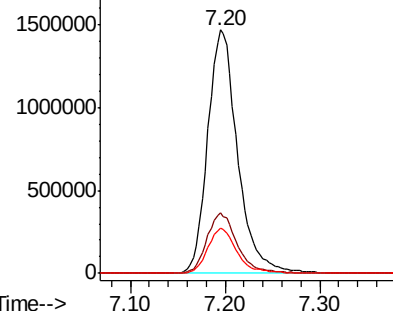
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 25.1  | 19.8  | 29.8  |
| 88  | 18.1  | 14.2  | 21.4  |



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: 10.354 ppbv

RT: 5.26 min Scan# 769

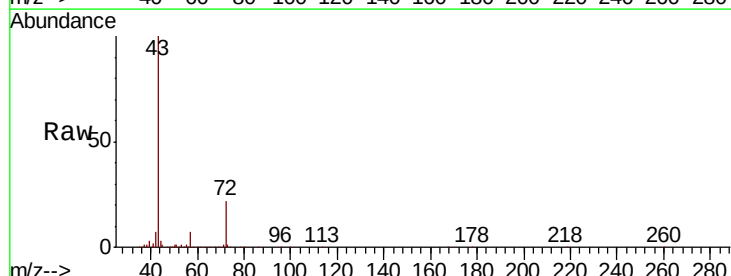
Delta R.T. 0.02 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

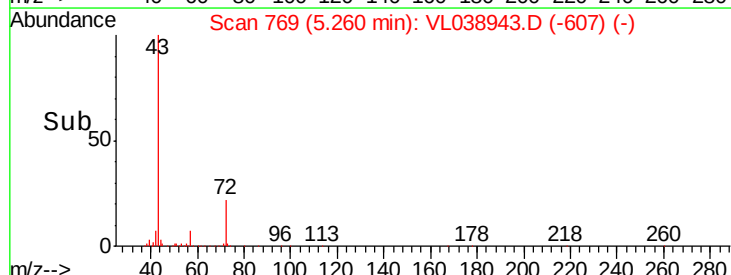
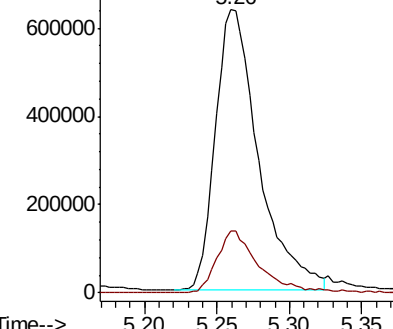
Tgt Ion: 43 Resp: 1319704

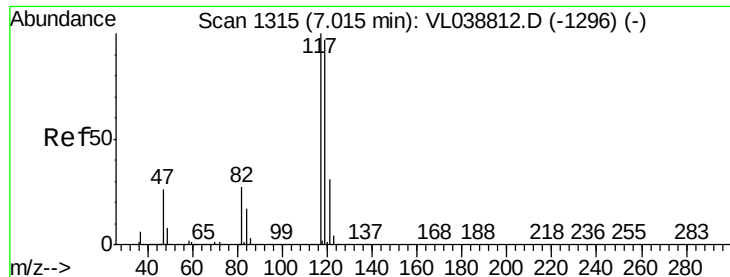
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 22.1  | 16.9  | 25.3  |



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

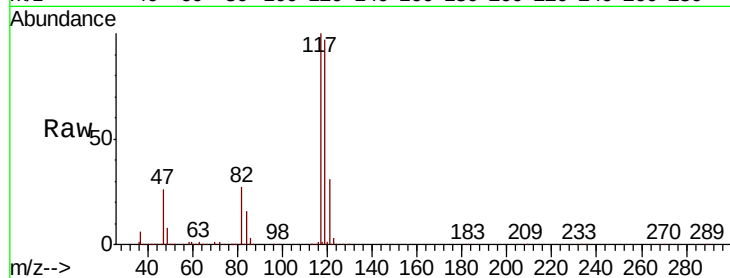




#35  
Carbon Tetrachloride  
Concen: 10.265 ppbv  
RT: 7.04  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
VSTDCCC010  
Acq: 19 Apr 2022 9:55

Tot Ion: 117 Resp: 1984961

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 119 | 97.4  | 77.7  | 116.5 |
| 121 | 31.2  | 24.5  | 36.7  |

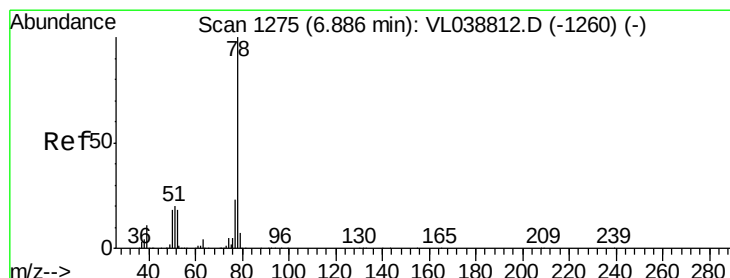
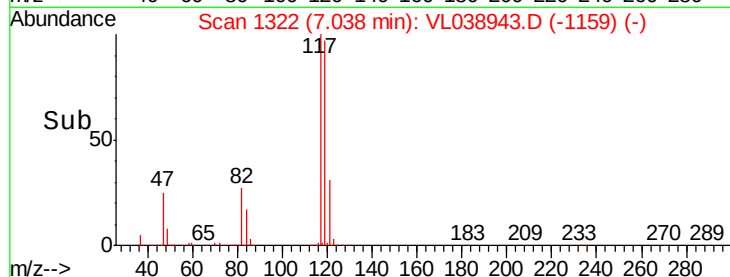
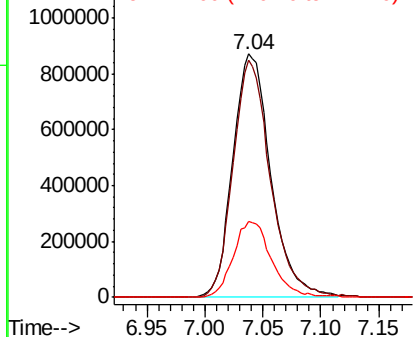


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

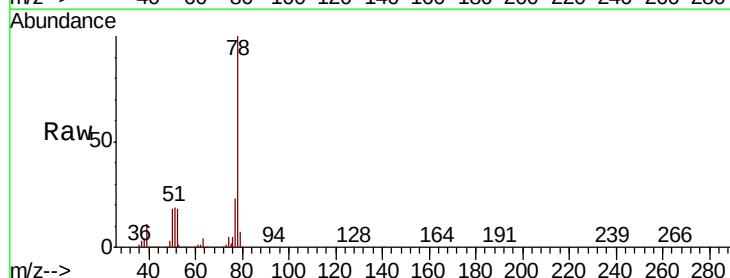
Ion 121.00 (120.70 to 121.70): V



#36  
Benzene  
Concen: 9.480 ppbv  
RT: 6.91 min Scan# 1283  
Delta R.T.: 0.03 min  
Lab File: VL038943.D  
Acq: 19 Apr 2022 9:55

Tgt Ion: 78 Resp: 2781668

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 22.9  | 18.2  | 27.2  |
| 50  | 18.5  | 14.0  | 21.0  |

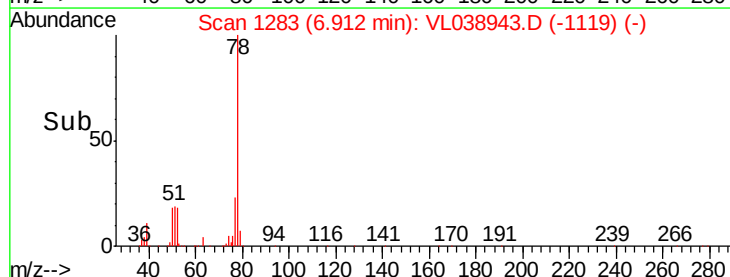
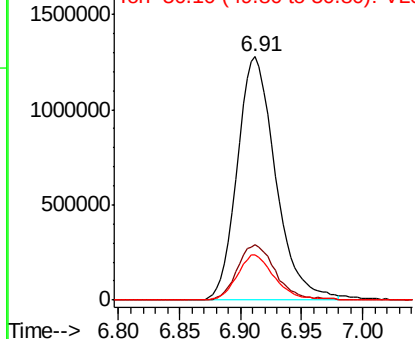


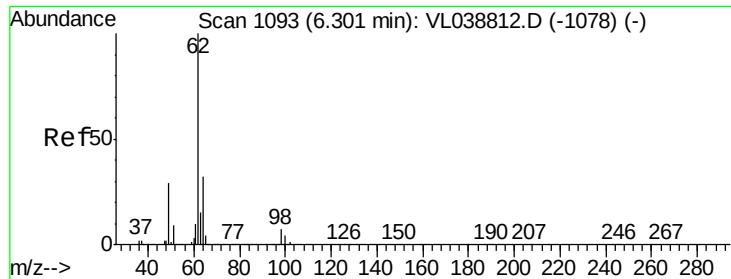
Abundance

Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

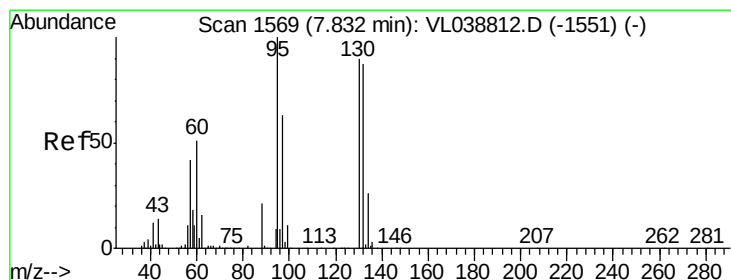
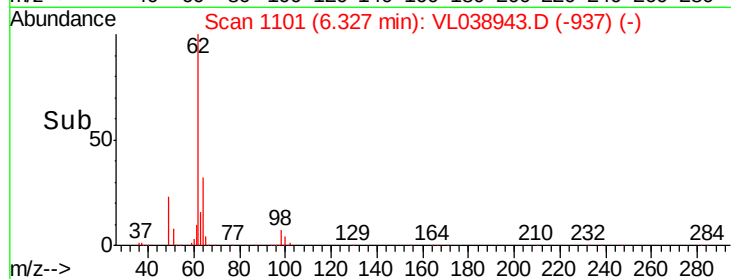
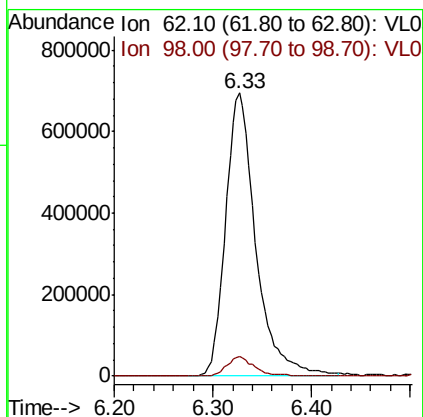
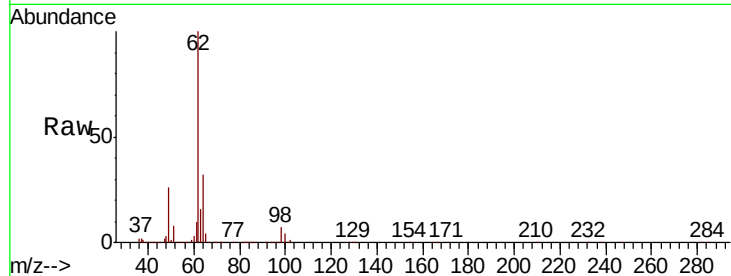
Ion 50.10 (49.80 to 50.80): VL0





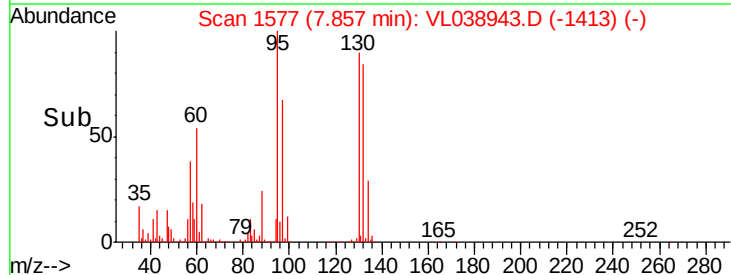
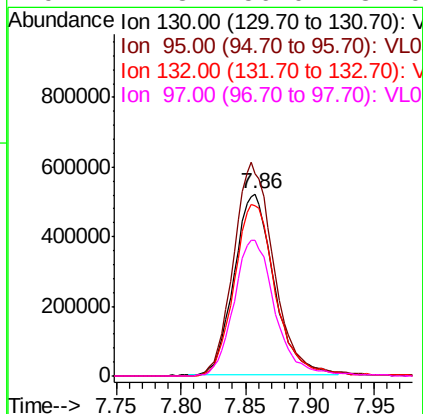
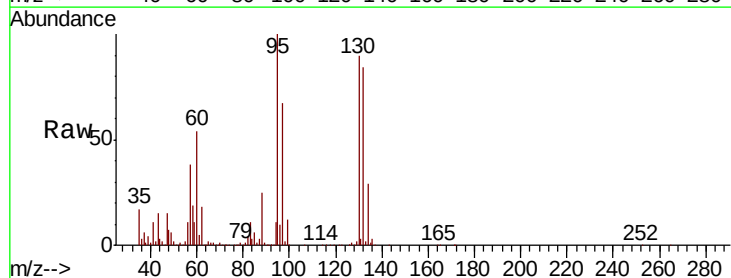
#37  
 1,2-Dichloroethane  
 Concen: 11.097 ppbv  
 RT: 6.33  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Apr 2022 9:55

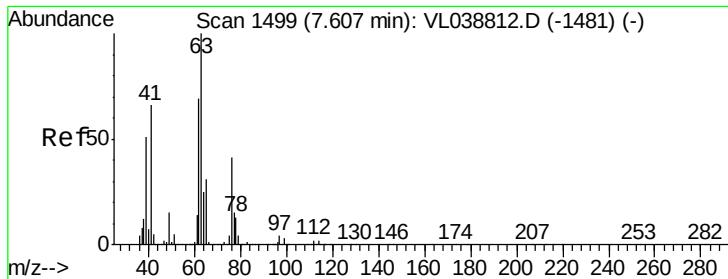
Tot Ion: 62 Resp: 1488758  
 Ion Ratio Lower Upper  
 62 100  
 98 6.7 5.9 8.9



#38  
 Trichloroethene  
 Concen: 9.328 ppbv  
 RT: 7.86 min Scan# 1577  
 Delta R.T. 0.03 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

Tgt Ion:130 Resp: 1123034  
 Ion Ratio Lower Upper  
 130 100  
 95 111.6 89.4 134.0  
 132 93.9 77.7 116.5  
 97 74.8 56.0 84.0





#39

1,2-Dichloropropane

Concen: 9.558 ppbv

RT: 7.64 Instrument:

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Apr 2022 9:55

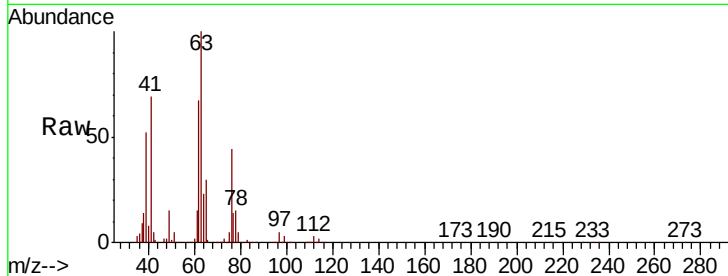
Tot Ion: 63 Resp: 1072725

Ion Ratio Lower Upper

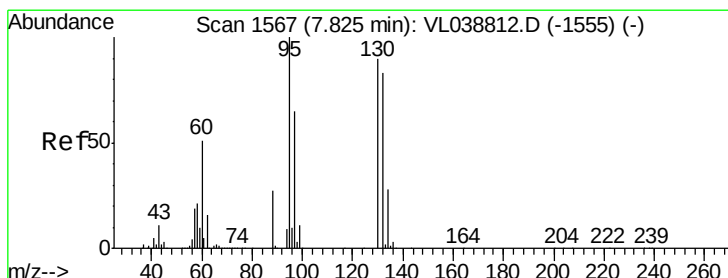
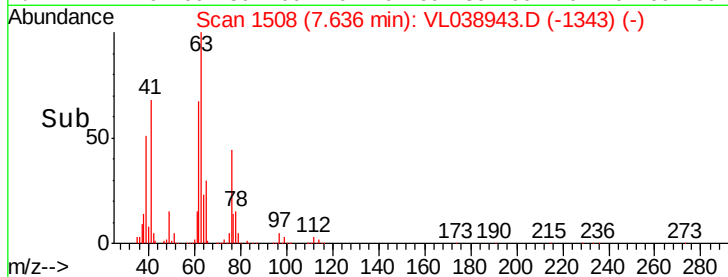
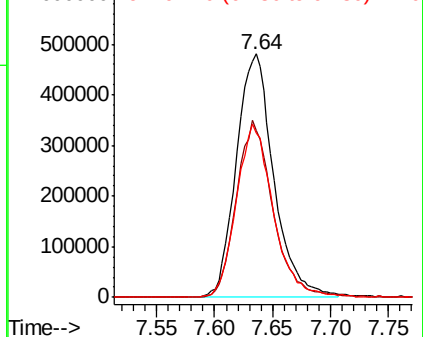
63 100

41 68.6 53.0 79.6

62 67.4 55.0 82.4



Abundance Ion 63.10 (62.80 to 63.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.552 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.03 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

Tgt Ion: 88 Resp: 402134

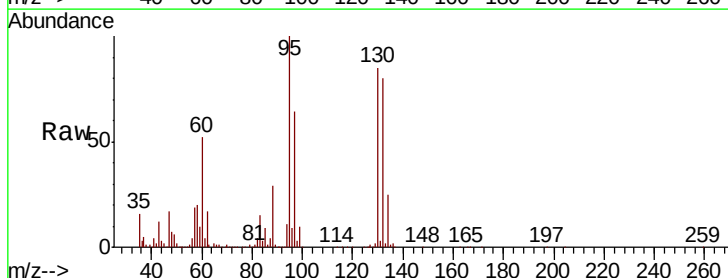
Ion Ratio Lower Upper

88 100

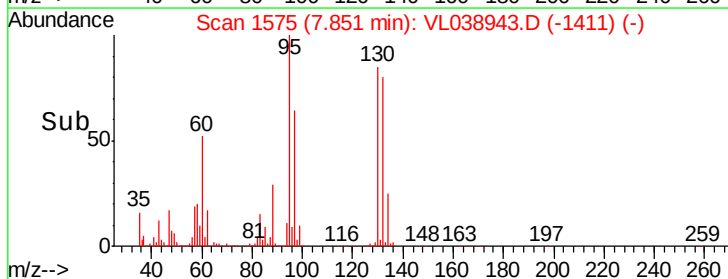
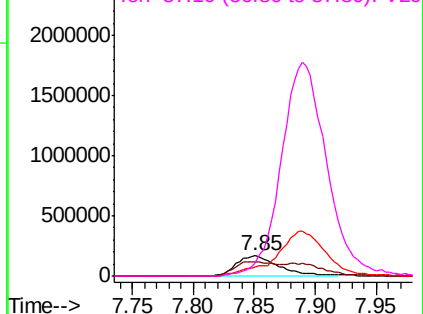
58 66.6 49.4 74.0

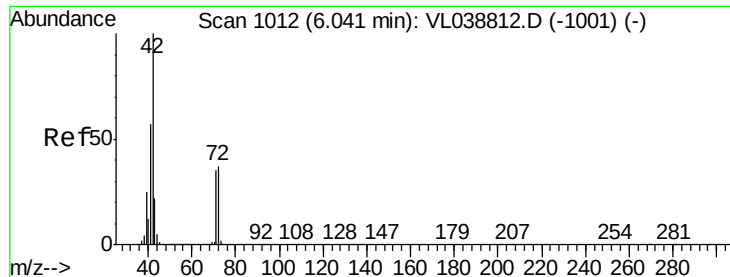
43 0.0 0.0 0.0

57 0.0 0.0 0.0



Abundance Ion 88.10 (87.80 to 88.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 9.529 ppbv

RT: 6.07

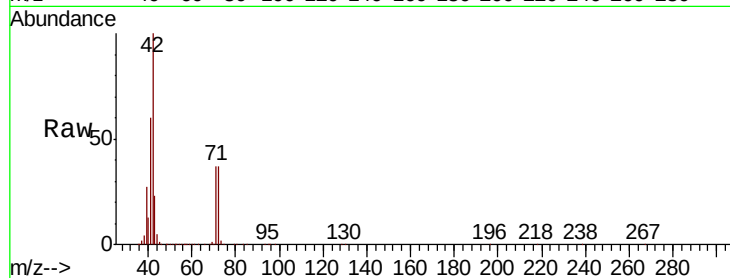
Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Apr 2022 9:55

Tot Ion: 42 Resp: 1153476

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 39.6  | 31.4  | 47.0  |
| 71  | 37.7  | 30.2  | 45.4  |

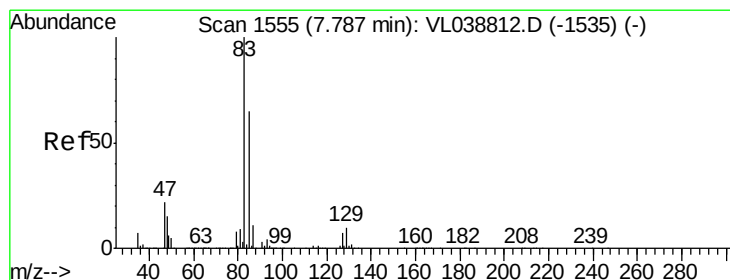
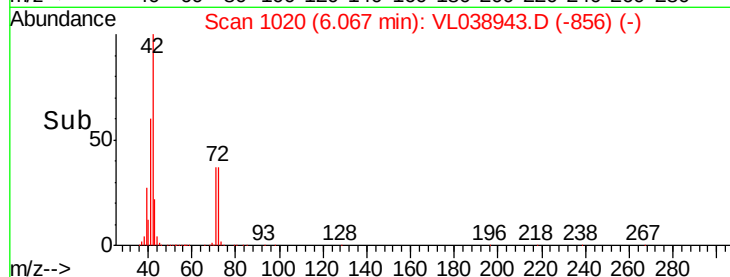
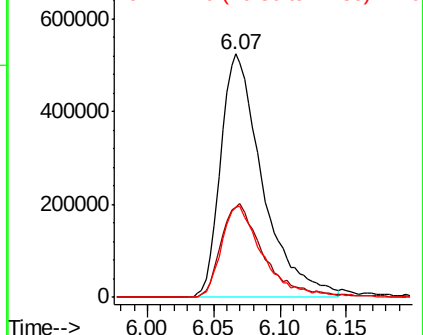


Abundance

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: 10.509 ppbv

RT: 7.81 min Scan# 1563

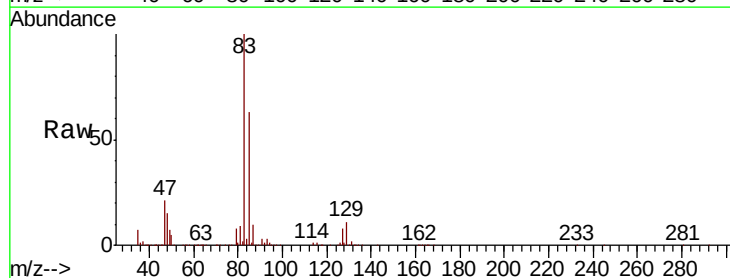
Delta R.T. 0.03 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

Tgt Ion: 83 Resp: 2226360

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 63.0  | 51.7  | 77.5  |
| 127 | 7.7   | 5.9   | 8.9   |

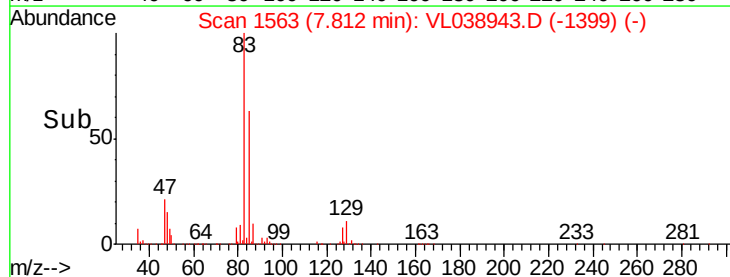
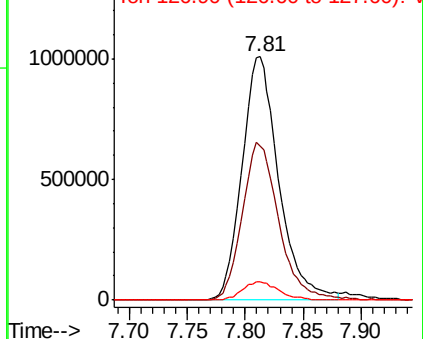


Abundance

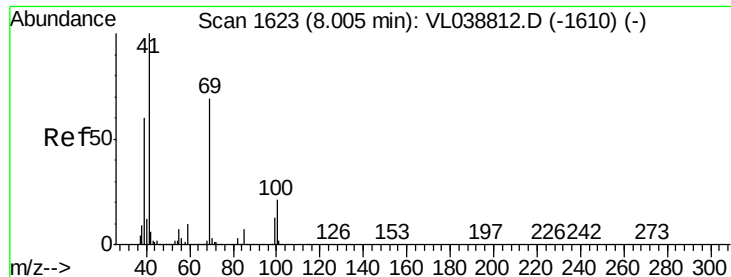
Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0







#43

Methyl Methacrylate

Concen: 10.328 ppbv

RT: 8.03

Instrument: MSVOA\_1

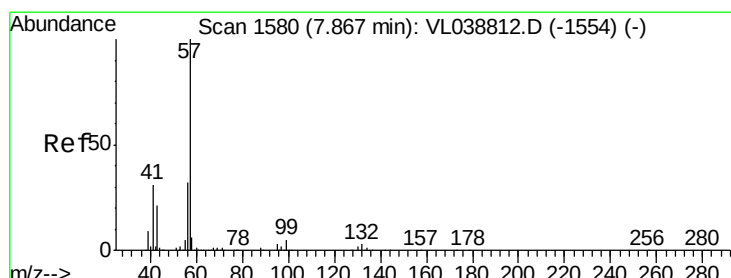
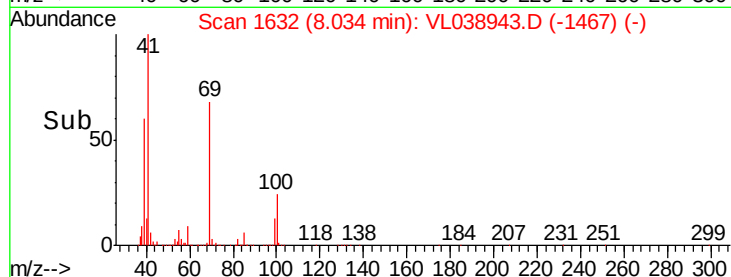
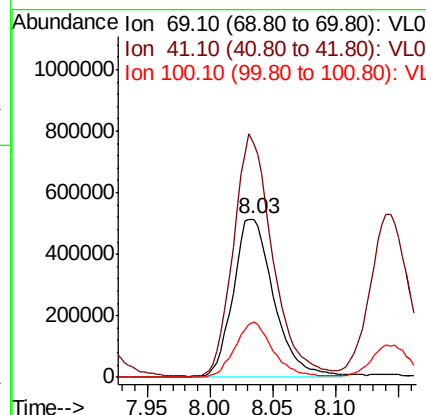
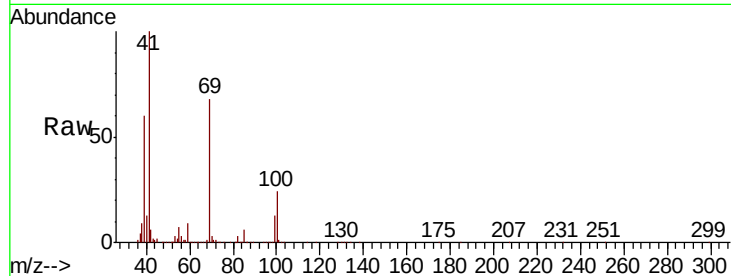
Delta R.T. ClientSampleId:

Lab File: VSTDCCC010

Acq: 19 Apr 2022 9:55

Tot Ion: 69 Resp: 1160693

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 69  | 100   |       |       |
| 41  | 148.0 | 119.0 | 178.4 |
| 100 | 32.5  | 26.4  | 39.6  |



#44

2,2,4-Trimethylpentane

Concen: 9.307 ppbv

RT: 7.89 min Scan# 1587

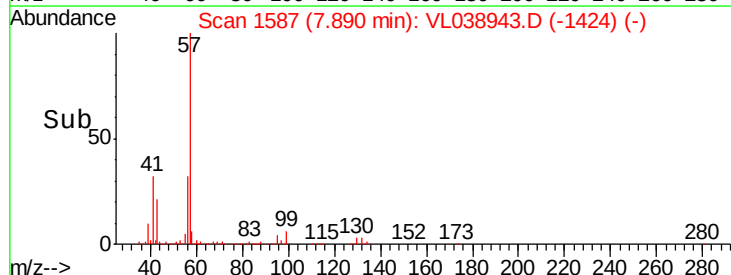
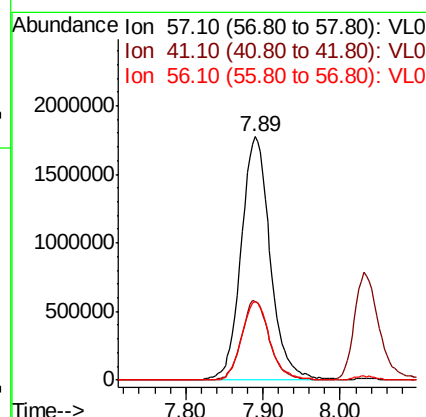
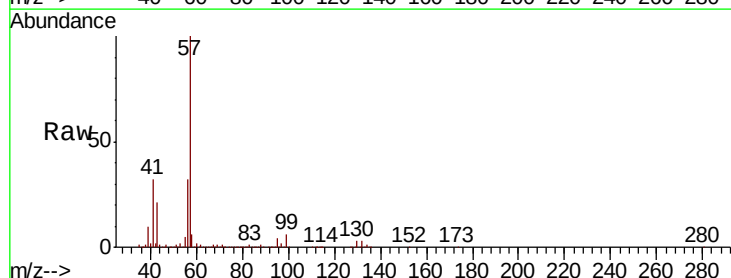
Delta R.T. 0.02 min

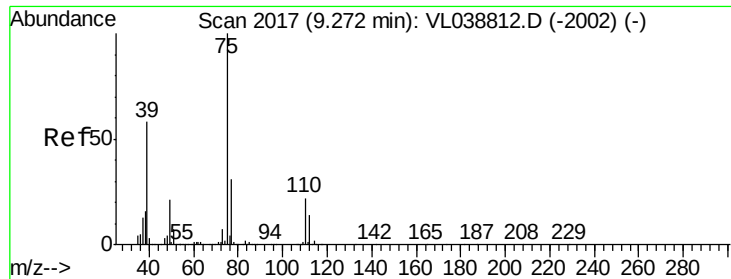
Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

Tgt Ion: 57 Resp: 4623664

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 31.3  | 25.0  | 37.4  |
| 56  | 31.4  | 25.3  | 37.9  |





#45

t-1,3-Dichloropropene

Concen: 10.728 ppbv

RT: 9.30 Instrument:

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

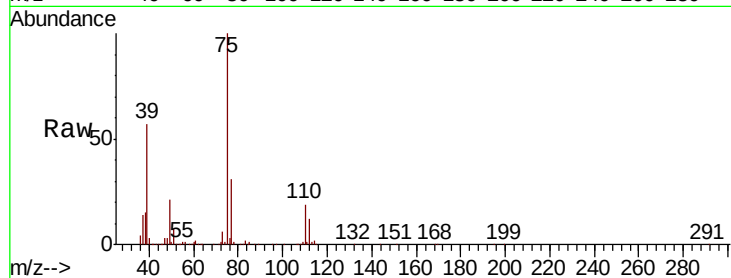
Acq: 19 Apr 2022 9:55

Tot Ion: 75 Resp: 1260657

Ion Ratio Lower Upper

75 100

77 31.1 25.0 37.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

600000

400000

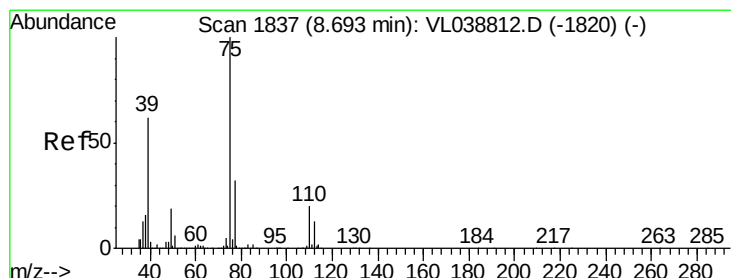
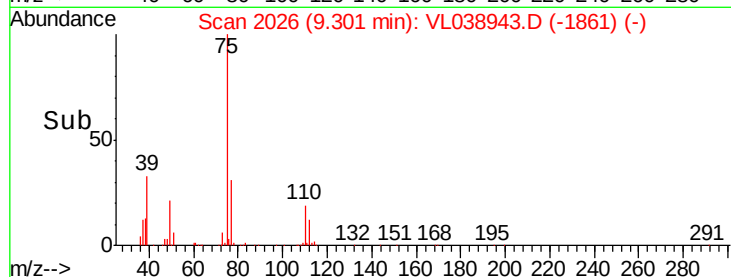
200000

0

9.30

9.25 9.30 9.35

Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.196 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. 0.03 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

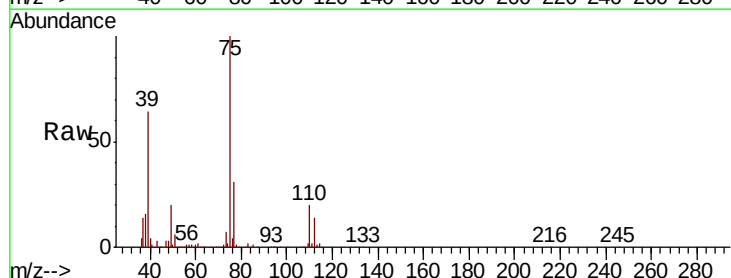
Tgt Ion: 75 Resp: 1579714

Ion Ratio Lower Upper

75 100

39 63.9 49.7 74.5

77 31.4 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1000000

800000

600000

400000

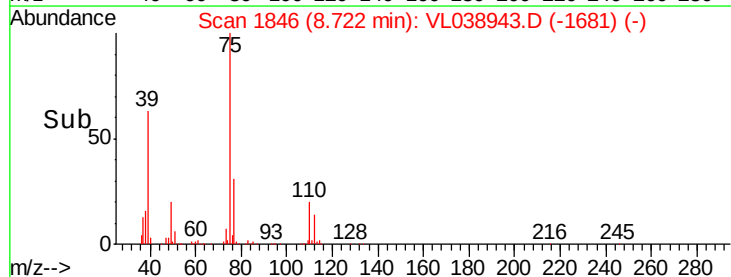
200000

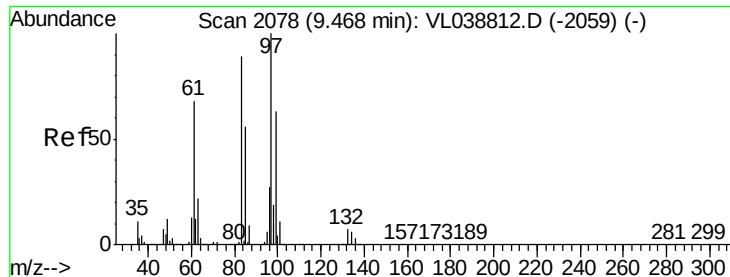
0

8.72

8.65 8.70 8.75 8.80

Time-->

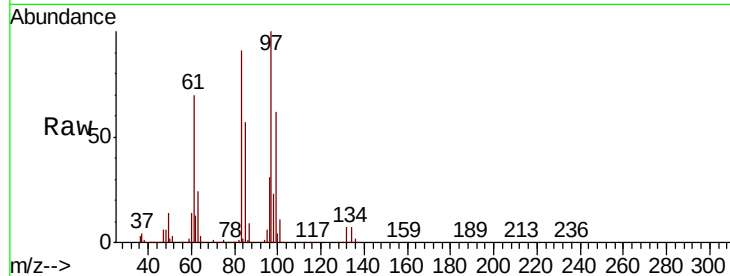




#47  
 1,1,2-Trichloroethane  
 Concen: 9.886 ppbv  
 RT: 9.49  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 ClientSampleId:  
 Lab File: VSTDCCC010  
 Acq: 19 Apr 2022 9:55

Tot Ion: 97 Resp: 1136883

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 90.5  | 71.1  | 106.7 |
| 85  | 57.1  | 45.1  | 67.7  |
| 99  | 61.8  | 50.8  | 76.2  |



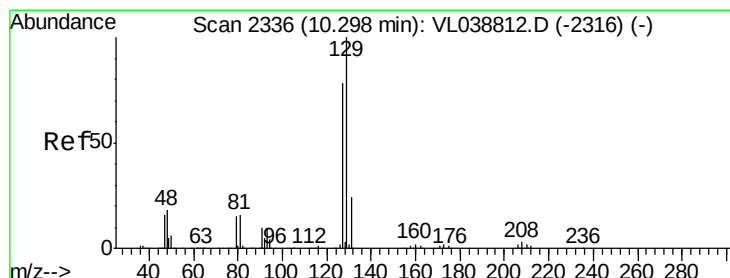
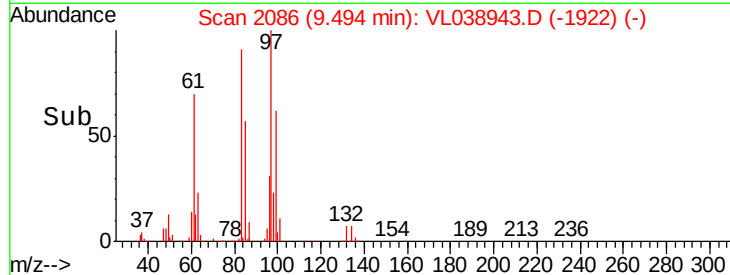
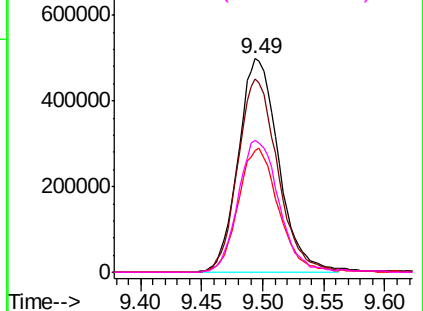
Abundance

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

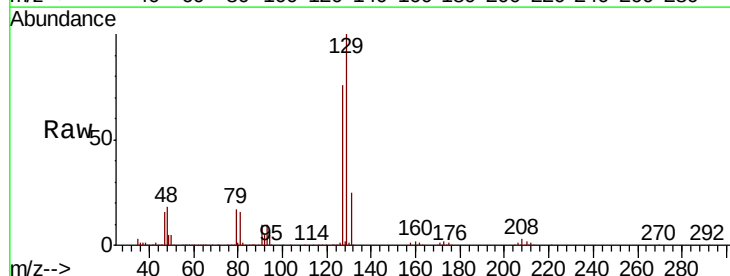
Ion 99.00 (98.70 to 99.70): VL0



#48  
 Dibromochloromethane  
 Concen: 10.226 ppbv  
 RT: 10.33 min Scan# 2345  
 Delta R.T.: 0.03 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

Tgt Ion: 129 Resp: 1843135

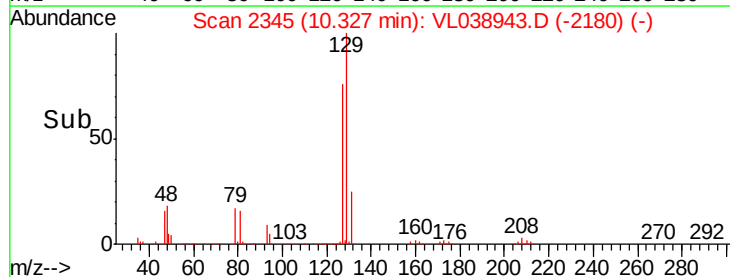
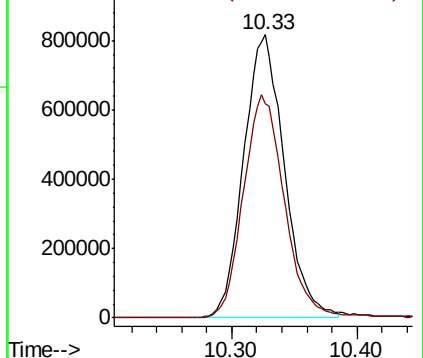
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 80.6  | 38.9  | 116.6 |

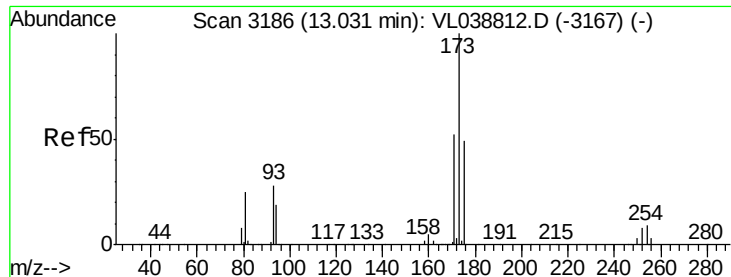


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.451 ppbv

RT: 13.06

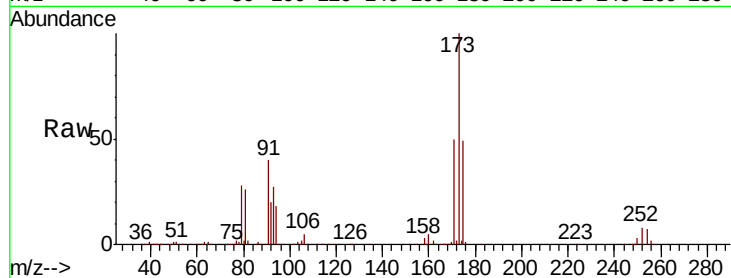
Delta R.T. MSVOA\_L

Lab File: ClientSampleId :

Acq: 19 Apr 2022 9:55

Tot Ion:173 Resp: 1491910

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 49.9  | 39.9  | 59.9  |
| 171 | 54.1  | 43.4  | 65.0  |

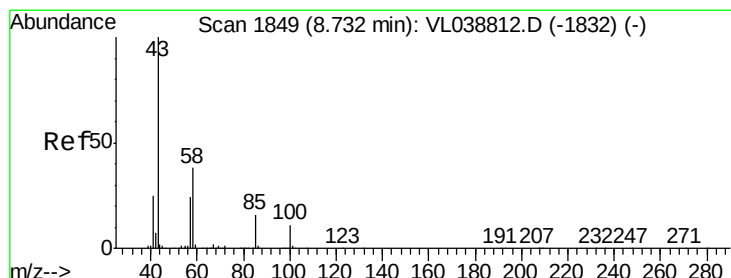
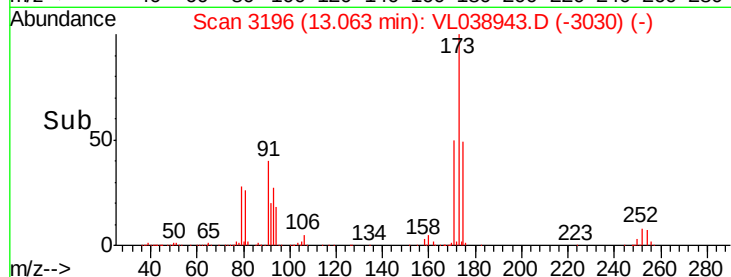
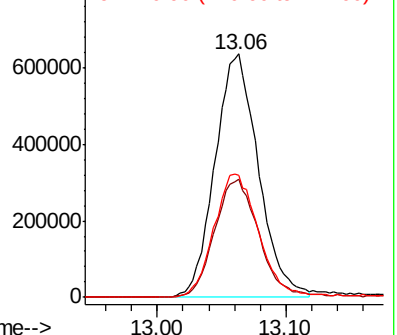


Abundance

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: 10.100 ppbv

RT: 8.76 min Scan# 1857

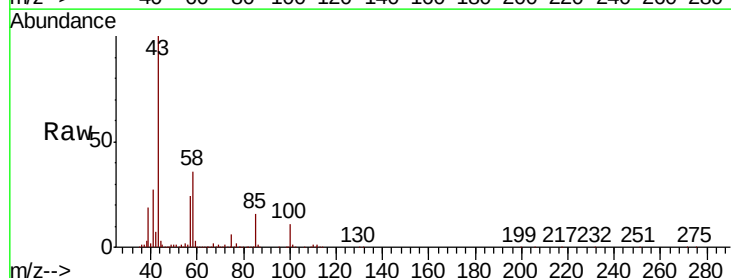
Delta R.T. 0.03 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

Tgt Ion: 43 Resp: 2895670

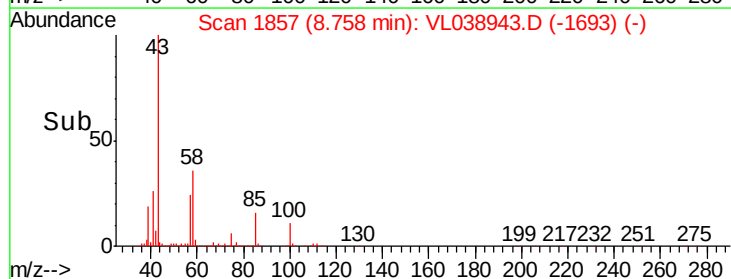
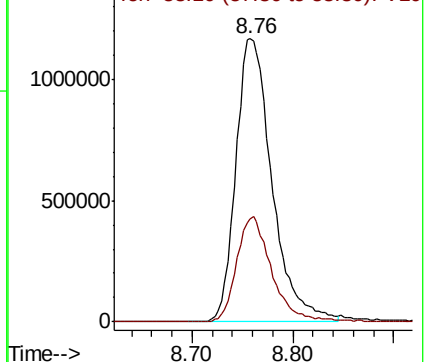
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 36.6  | 29.0  | 43.6  |

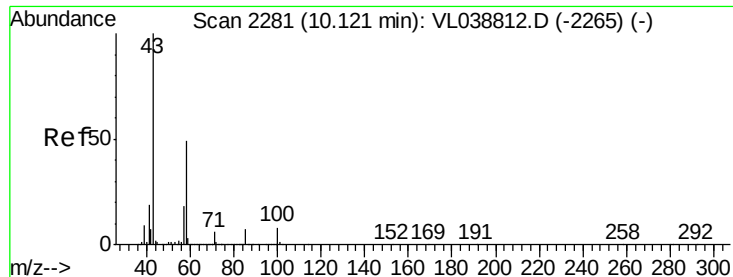


Abundance

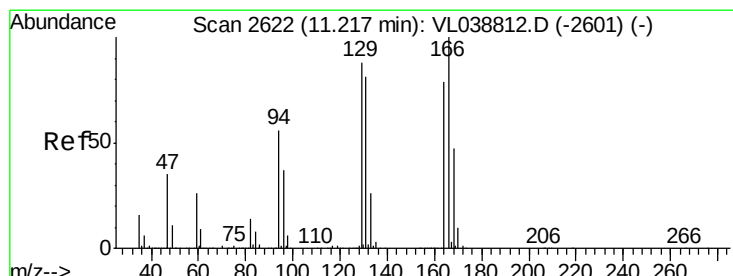
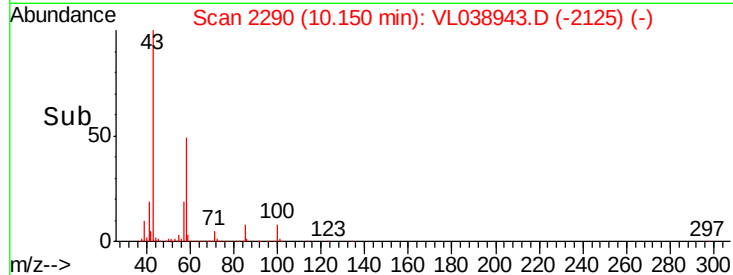
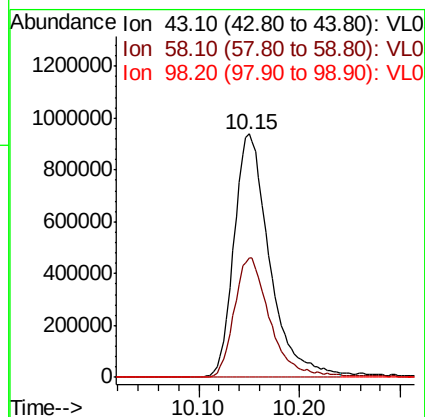
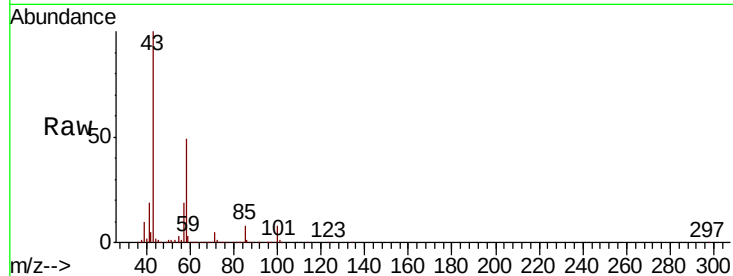
Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

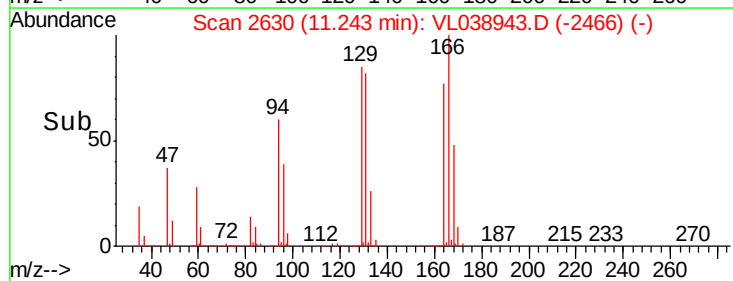
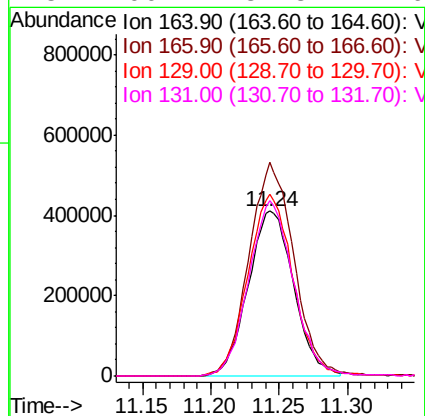
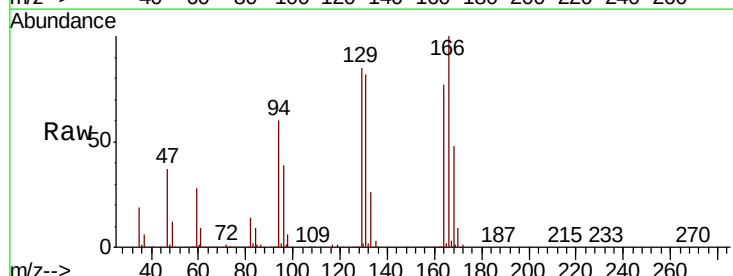


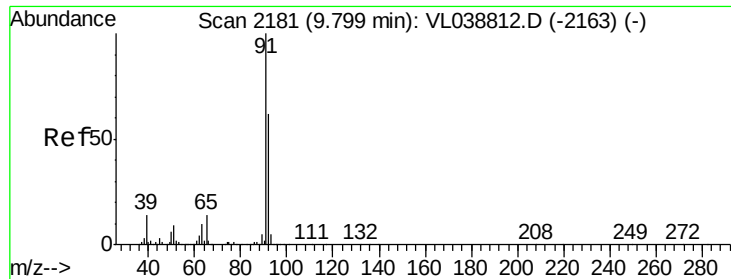


#51  
2-Hexanone  
Concen: 10.598 ppbv  
RT: 10.15  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 19 Apr 2022 9:55  
Tat Ion: 43 Resp: 2289217  
Ion Ratio Lower Upper  
43 100  
58 50.5 41.4 62.0  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 9.243 ppbv  
RT: 11.24 min Scan# 2630  
Delta R.T. 0.03 min  
Lab File: VL038943.D  
Acq: 19 Apr 2022 9:55  
Tgt Ion:164 Resp: 947355  
Ion Ratio Lower Upper  
164 100  
166 129.7 101.0 151.6  
129 110.7 88.7 133.1  
131 106.7 81.8 122.6





#53

Toluene

Concen: 9.668 ppbv

RT: 9.83

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

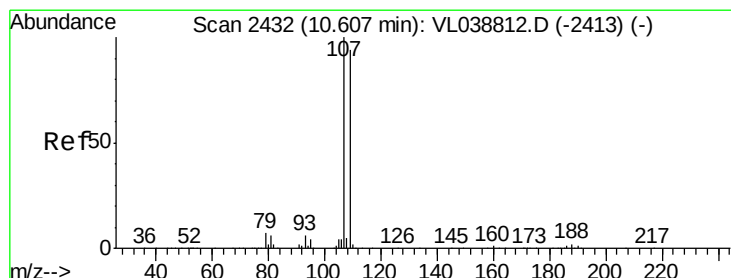
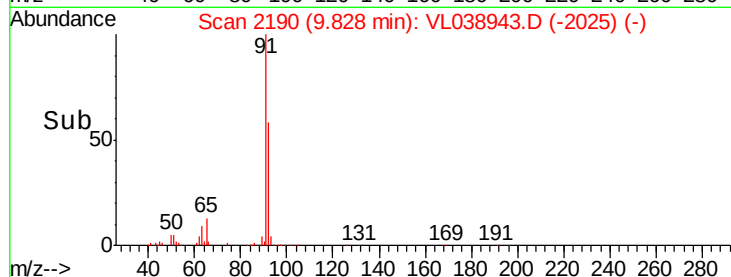
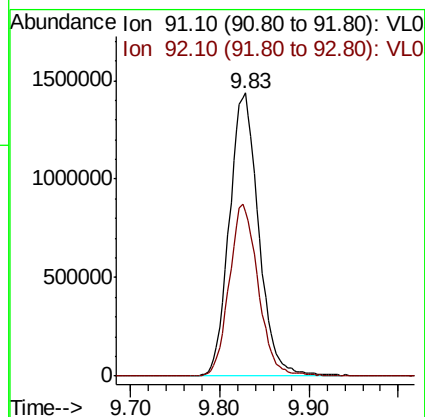
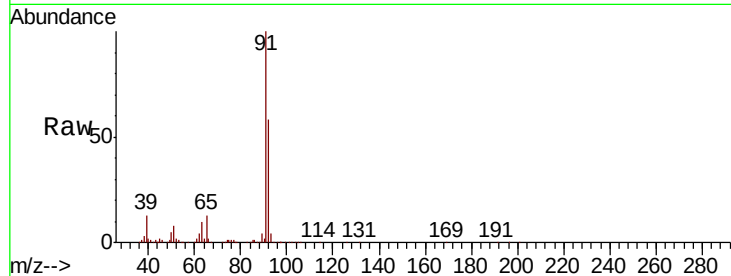
Acq: 19 Apr 2022 9:55

Tot Ion: 91 Resp: 3274853

Ion Ratio Lower Upper

91 100

92 60.2 49.2 73.8



#54

1,2-Dibromoethane

Concen: 10.129 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. 0.03 min

Lab File: VL038943.D

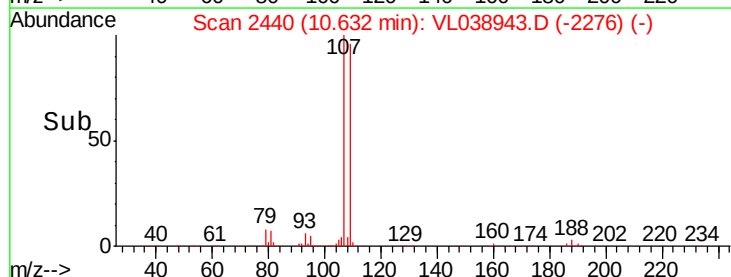
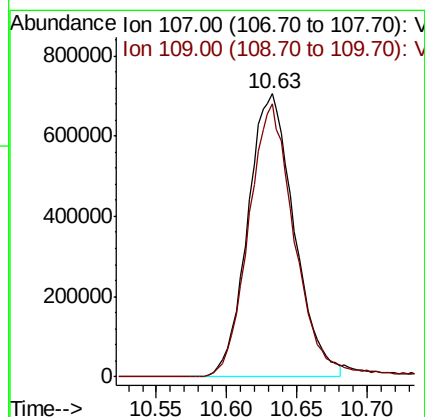
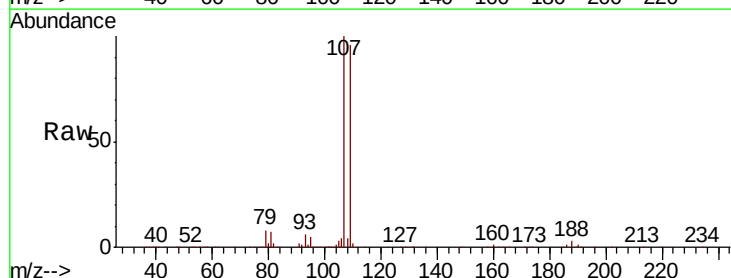
Acq: 19 Apr 2022 9:55

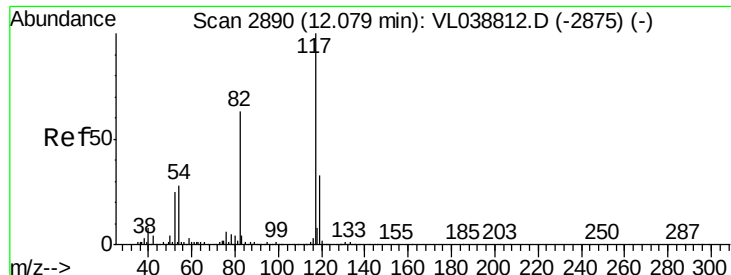
Tgt Ion: 107 Resp: 1618072

Ion Ratio Lower Upper

107 100

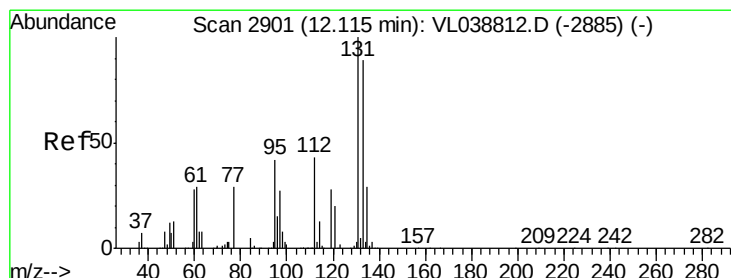
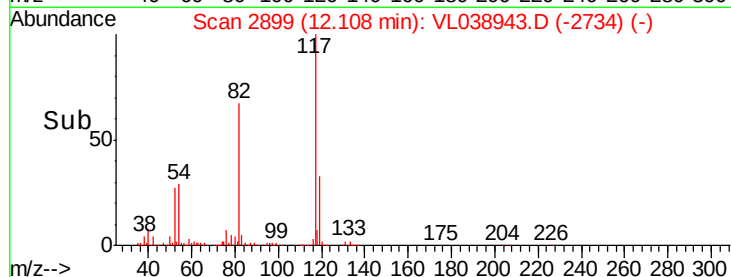
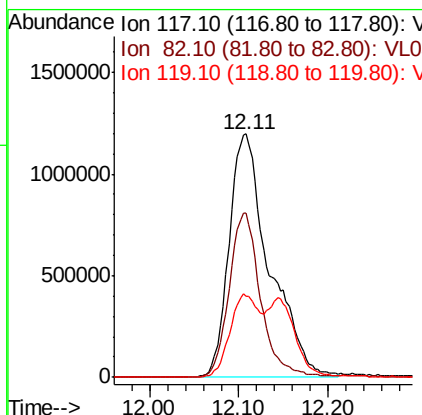
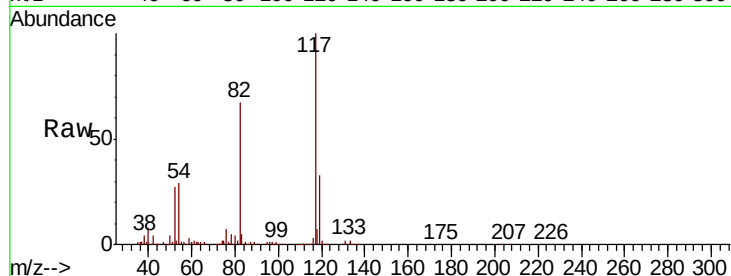
109 96.2 75.5 113.3





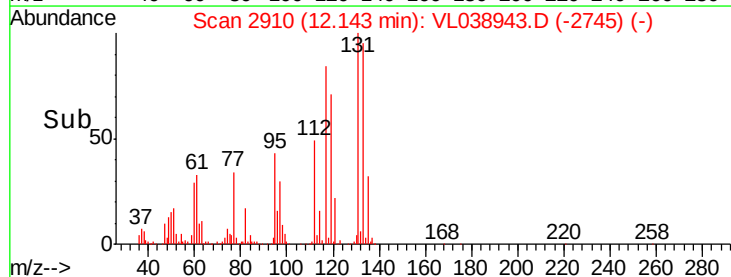
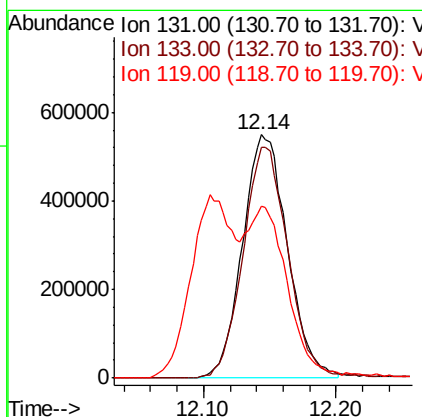
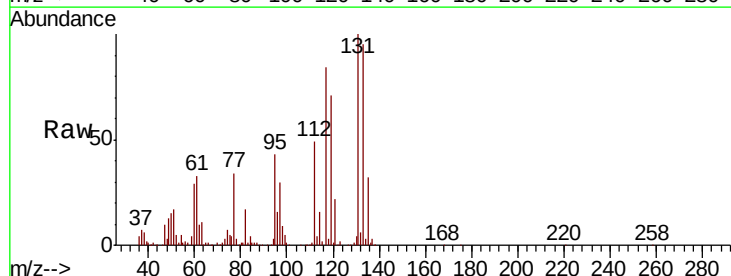
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.11 min  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId :  
Acq: 19 Apr 2022 9:55

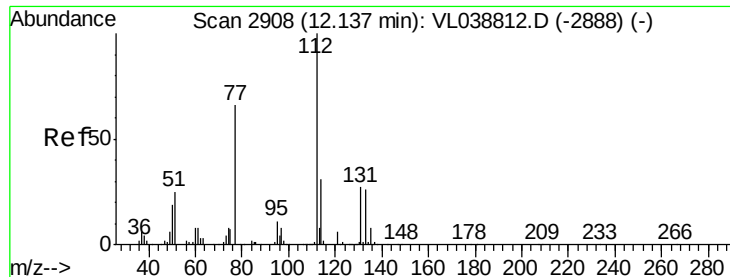
Tot Ion:117 Resp: 3761517  
Ion Ratio Lower Upper  
117 100  
82 52.8 53.0 79.6#  
119 25.1 24.9 37.3



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.831 ppbv  
RT: 12.14 min Scan# 2910  
Delta R.T. 0.03 min  
Lab File: VL038943.D  
Acq: 19 Apr 2022 9:55

Tgt Ion:131 Resp: 1290817  
Ion Ratio Lower Upper  
131 100  
133 96.3 78.2 117.4  
119 70.4 58.6 87.8





#57

Chlorobenzene

Concen: 7.418 ppbv

RT: 12.17 min

Delta R.T. MSVOA\_1

Lab File: ClientSampleId:

Acq: 19 Apr 2022 9:55

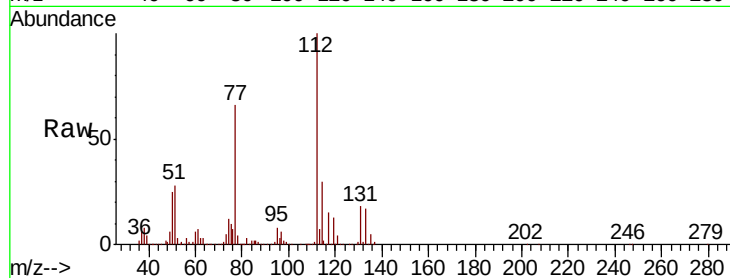
Tot Ion: 112 Resp: 2285236

Ion Ratio Lower Upper

112 100

77 64.7 52.4 78.6

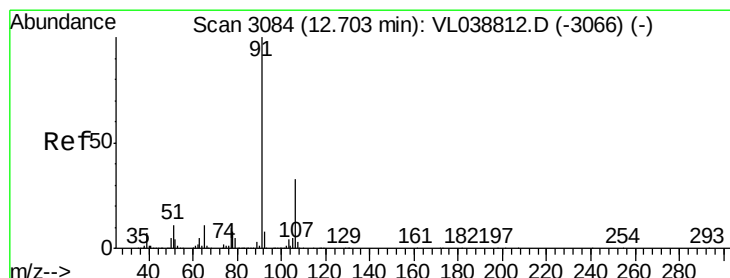
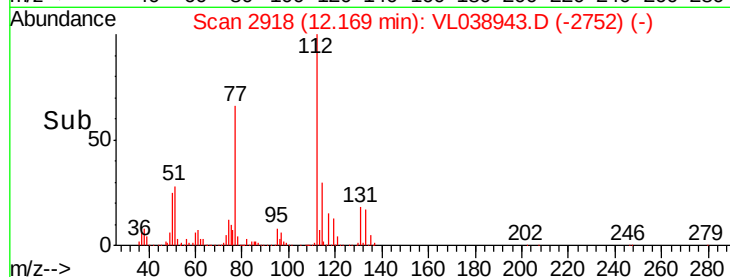
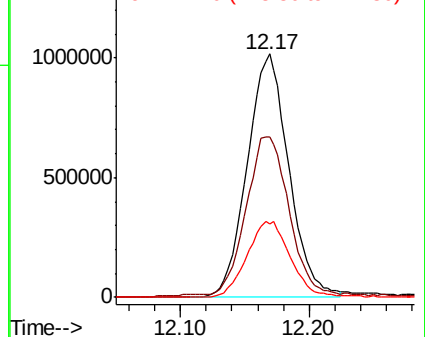
114 30.3 28.1 34.3



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: 7.778 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. 0.03 min

Lab File: VL038943.D

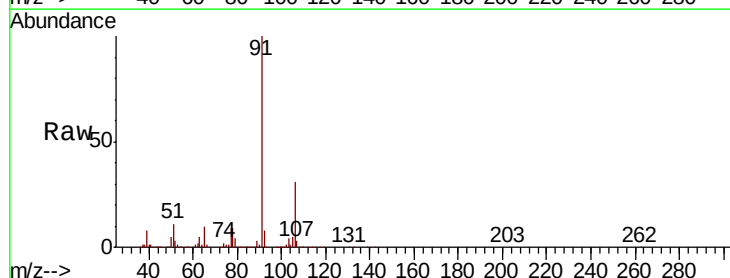
Acq: 19 Apr 2022 9:55

Tgt Ion: 91 Resp: 4371770

Ion Ratio Lower Upper

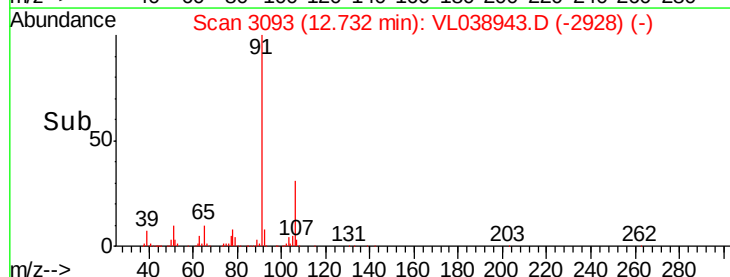
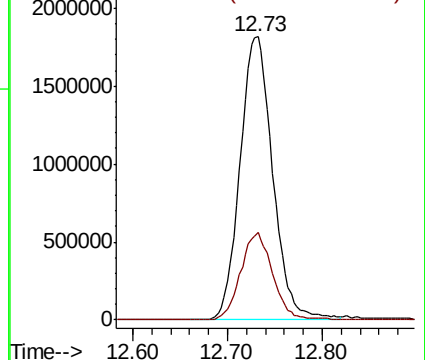
91 100

106 31.0 26.7 40.1

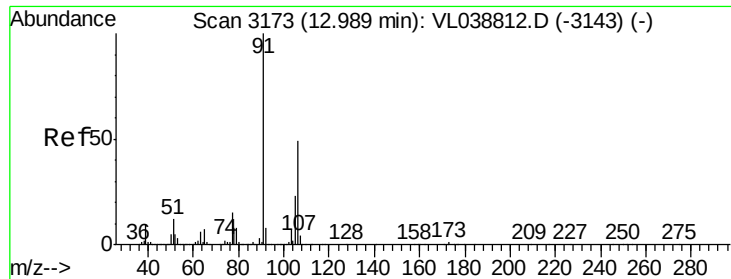


Abundance Ion 91.10 (90.80 to 91.80): VL0

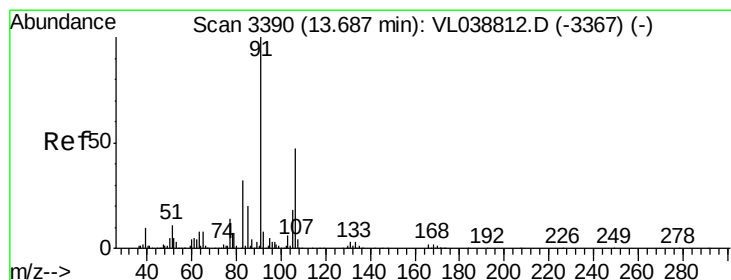
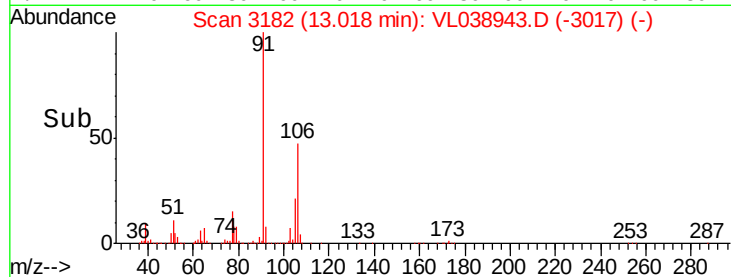
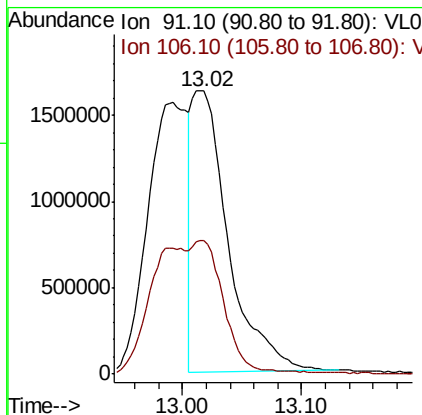
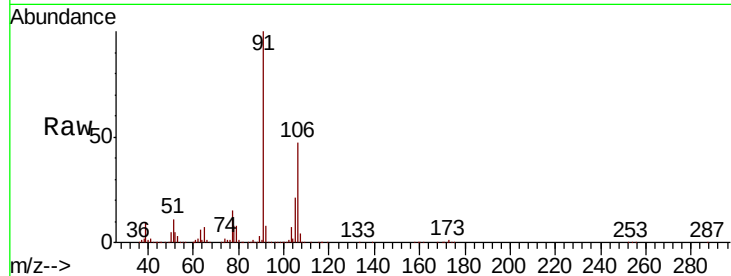
Ion 106.10 (105.80 to 106.80): V



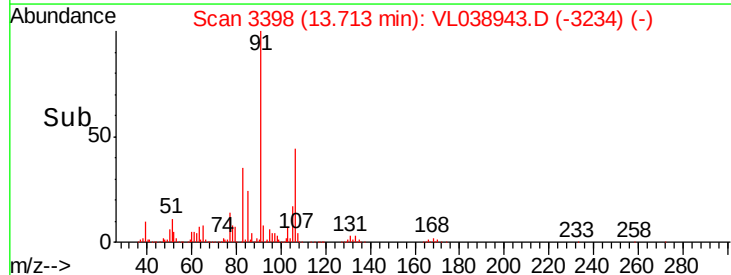
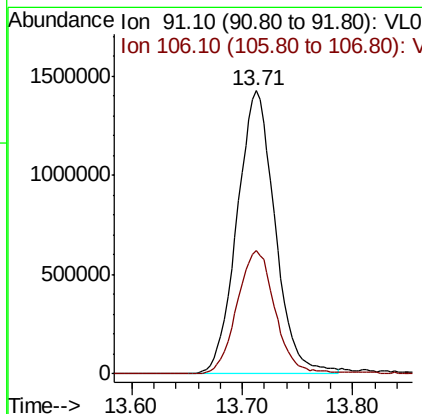
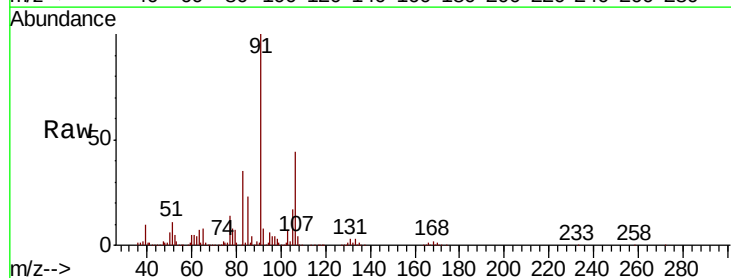


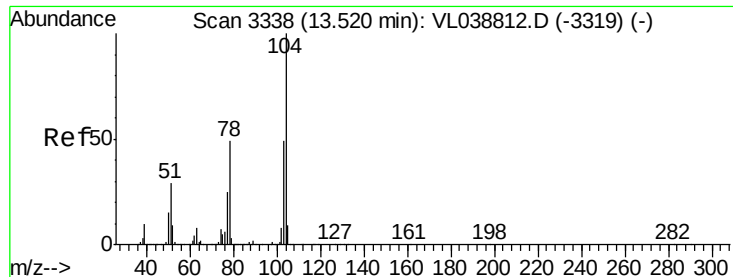


#59  
m/p-Xylene  
Concen: 7.335 ppbv  
RT: 13.02  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 19 Apr 2022 9:55  
Tat Ion: 91 Resp: 3463802  
Ion Ratio Lower Upper  
91 100  
106 91.4 37.1 55.7#



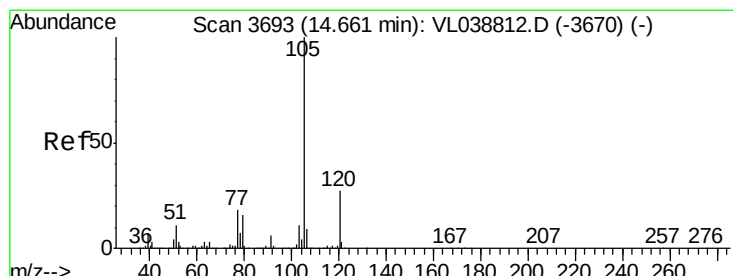
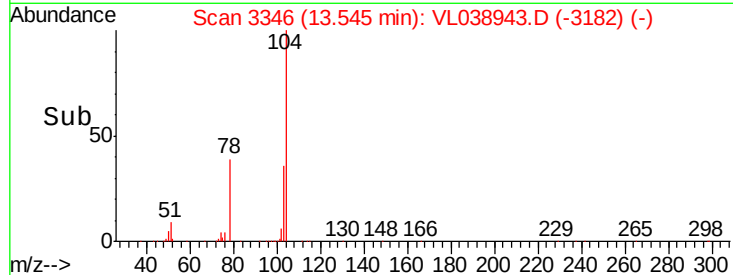
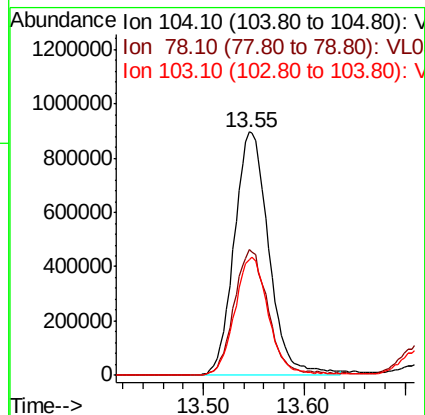
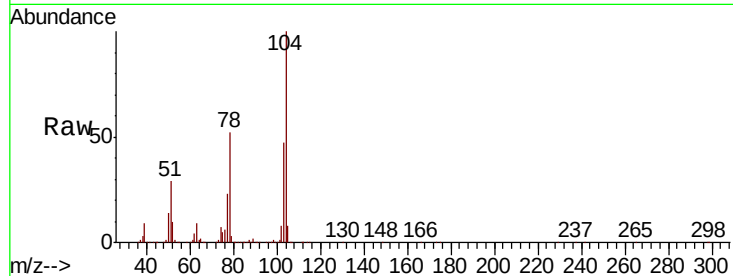
#60  
o-Xylene  
Concen: 7.673 ppbv  
RT: 13.71 min Scan# 3398  
Delta R.T. 0.03 min  
Lab File: VL038943.D  
Acq: 19 Apr 2022 9:55  
Tgt Ion: 91 Resp: 3390367  
Ion Ratio Lower Upper  
91 100  
106 44.8 23.8 71.4





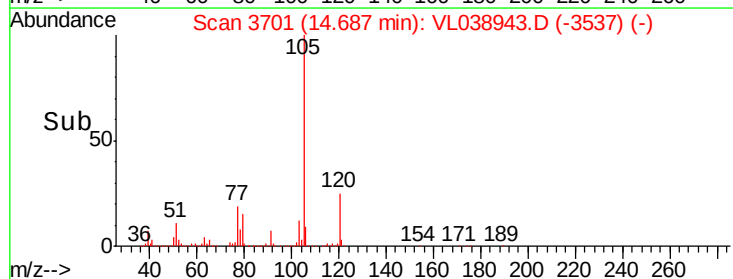
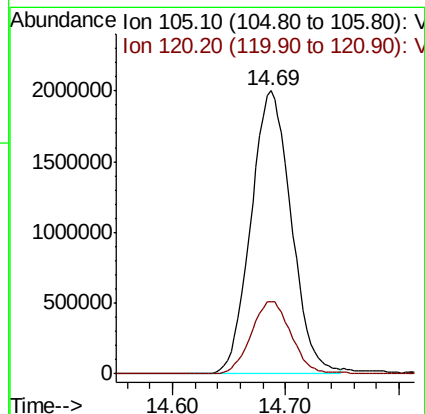
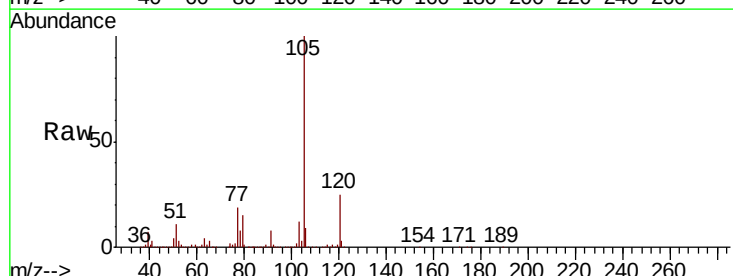
#61  
Stvrene  
Concen: 7.955 ppbv  
RT: 13.55  
Instrument: MSVOA\_1  
Delta R.T.:  
Lab File: ClientSampleId:  
Acq: 19 Apr 2022 9:55

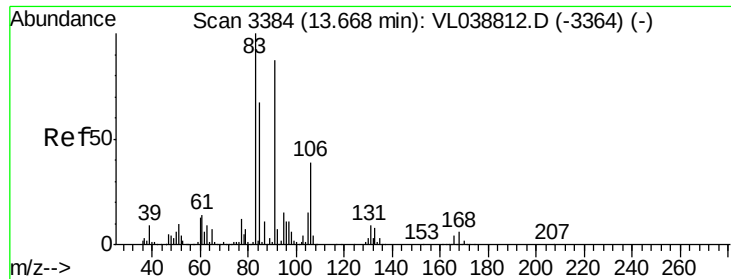
Tot Ion:104 Resp: 2141399  
Ion Ratio Lower Upper  
104 100  
78 51.2 40.5 60.7  
103 47.8 39.0 58.4



#62  
Isopropylbenzene  
Concen: 7.451 ppbv  
RT: 14.69 min Scan# 3701  
Delta R.T.: 0.03 min  
Lab File: VL038943.D  
Acq: 19 Apr 2022 9:55

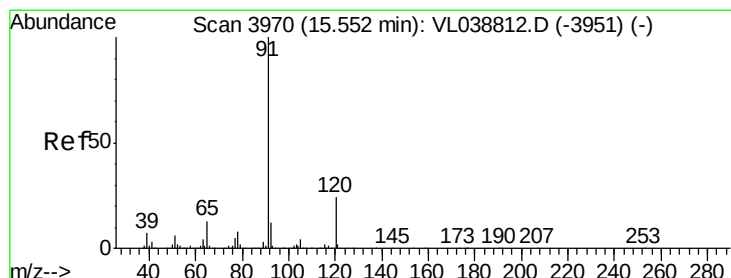
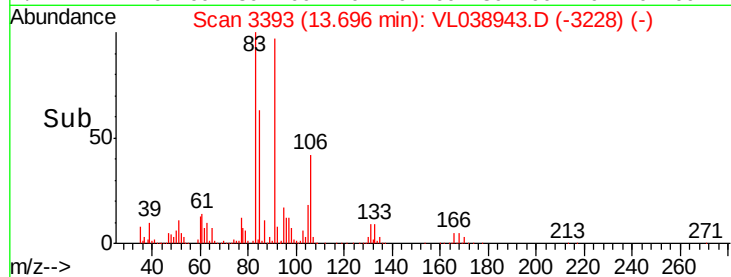
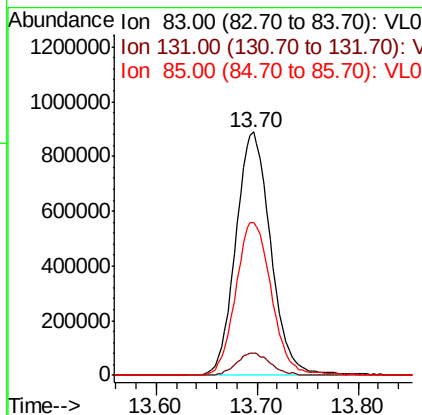
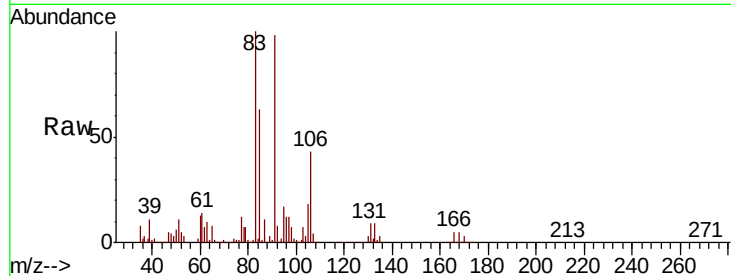
Tgt Ion:105 Resp: 4941745  
Ion Ratio Lower Upper  
105 100  
120 25.9 21.8 32.8





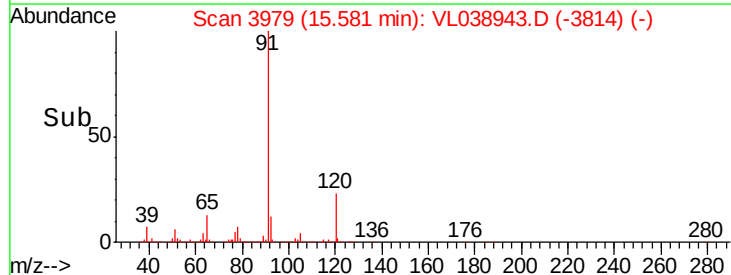
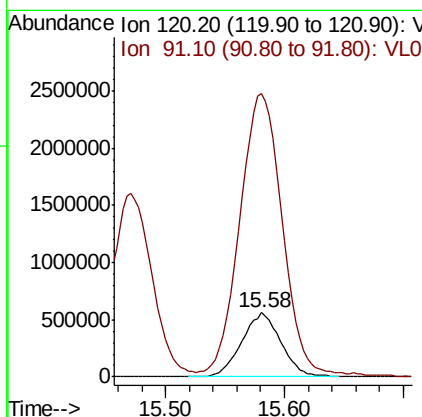
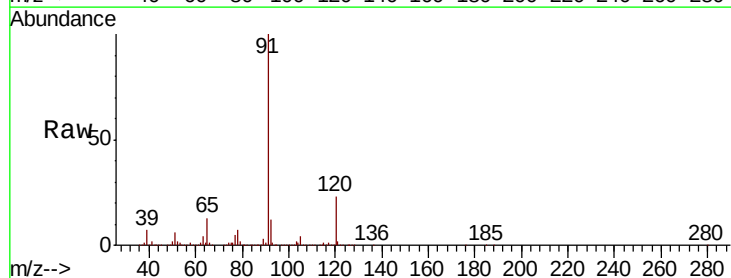
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.611 ppbv  
 RT: 13.70 min  
 Delta R.T. 0.03 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

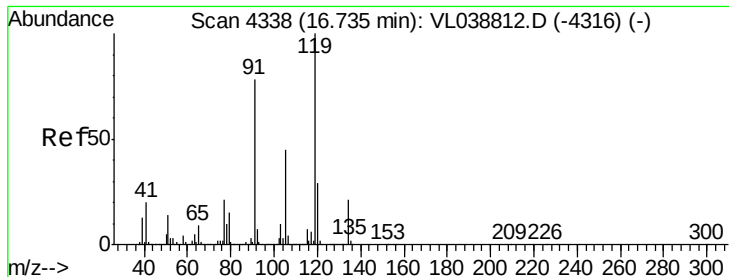
Tot Ion: 83 Resp: 2130170  
 Ion Ratio Lower Upper  
 83 100  
 131 9.2 4.6 13.8  
 85 65.2 33.0 99.0



#64  
 n-propylbenzene  
 Concen: 7.436 ppbv  
 RT: 15.58 min Scan# 3979  
 Delta R.T. 0.03 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

Tgt Ion: 120 Resp: 1280641  
 Ion Ratio Lower Upper  
 120 100  
 91 484.8 360.6 540.8





#65

tert-Butylbenzene

Concen: 7.241 ppbv

RT: 16.77 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

Acq: 19 Apr 2022 9:55

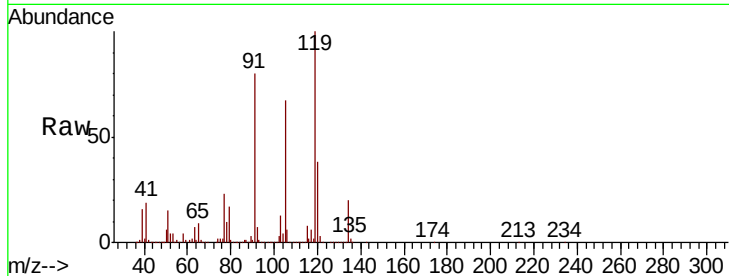
Tot Ion: 119 Resp: 4260970

Ion Ratio Lower Upper

119 100

91 82.3 62.8 94.2

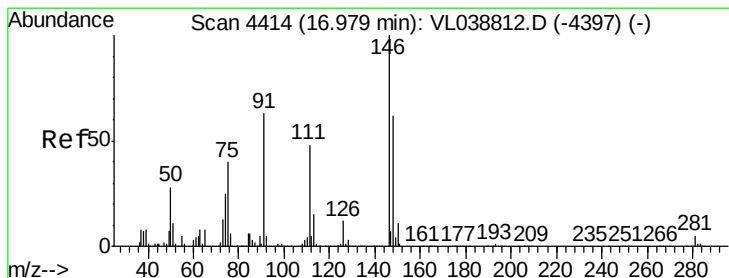
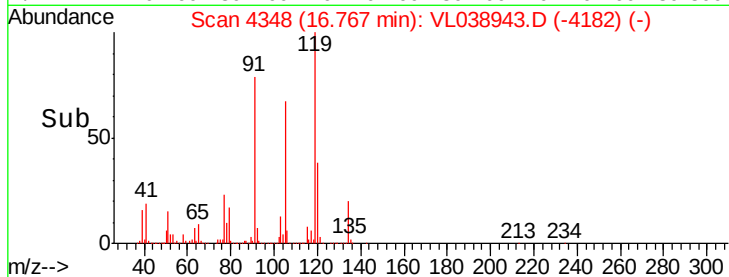
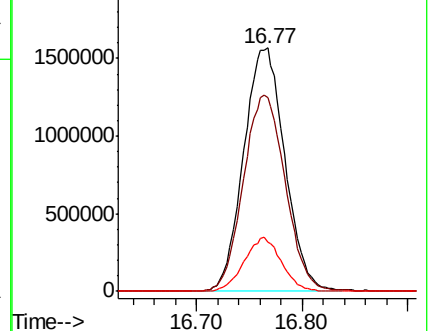
134 20.1 16.2 24.4



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: 6.970 ppbv

RT: 17.01 min Scan# 4423

Delta R.T. 0.03 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

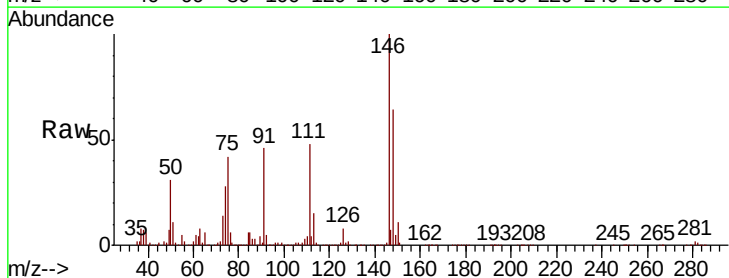
Tgt Ion: 91 Resp: 834967

Ion Ratio Lower Upper

91 100

126 16.6 15.4 23.0

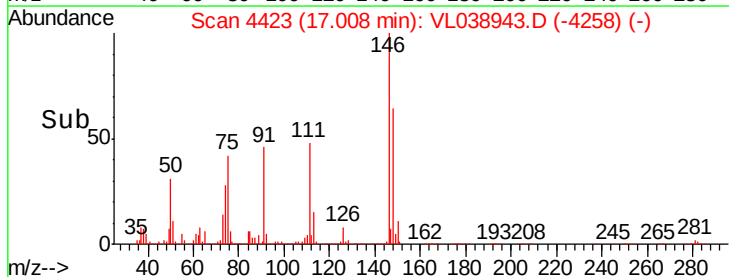
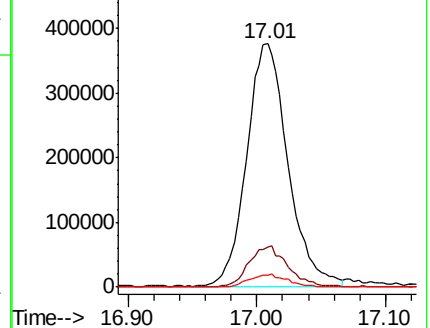
128 5.2 4.7 7.1

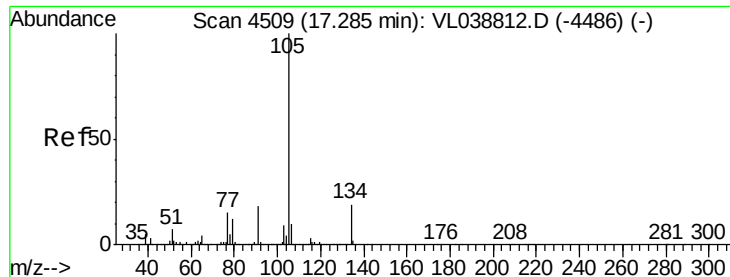


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 7.439 ppbv

RT: 17.31 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

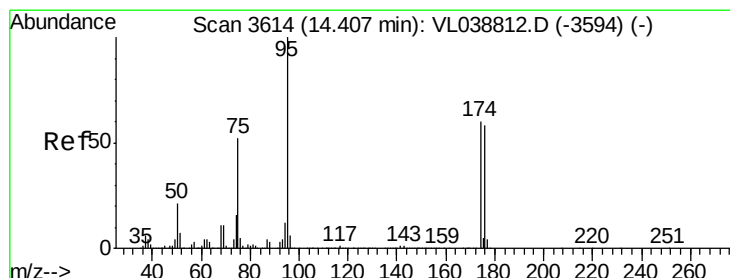
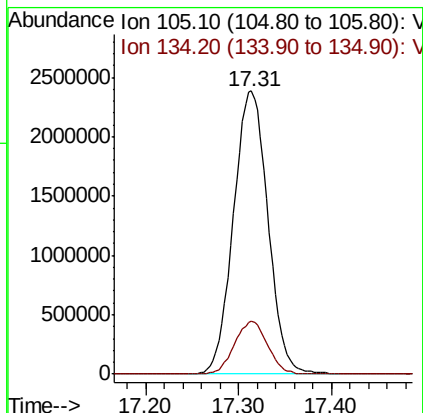
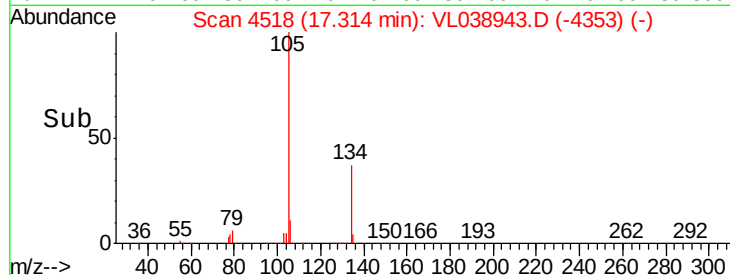
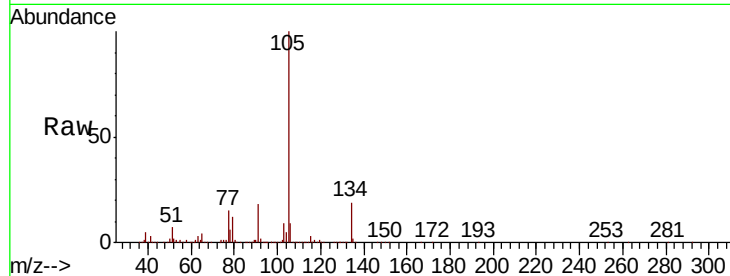
Acq: 19 Apr 2022 9:55

Tot Ion: 105 Resp: 6142544

Ion Ratio Lower Upper

105 100

134 18.2 15.1 22.7



#68

1-Bromo-4-Fluorobenzene

Concen: 8.265 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. 0.03 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

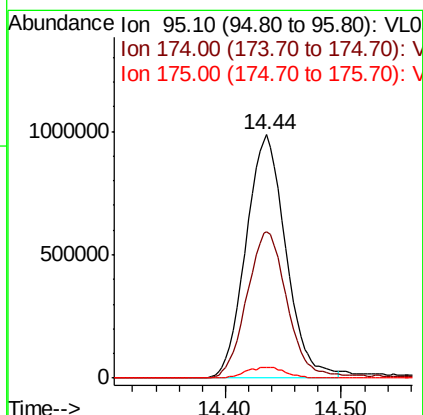
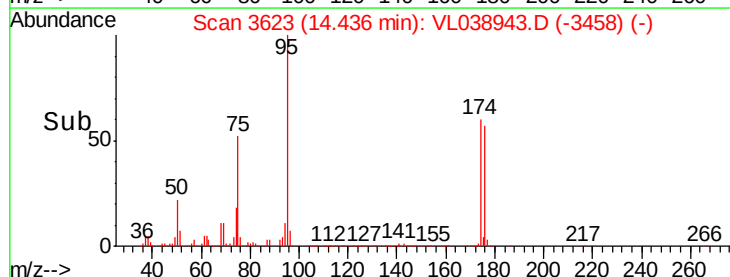
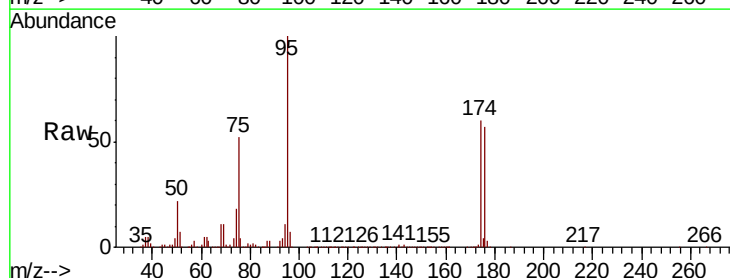
Tgt Ion: 95 Resp: 2358256

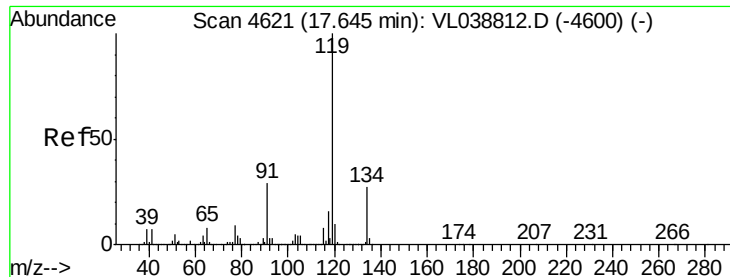
Ion Ratio Lower Upper

95 100

174 62.9 52.0 78.0

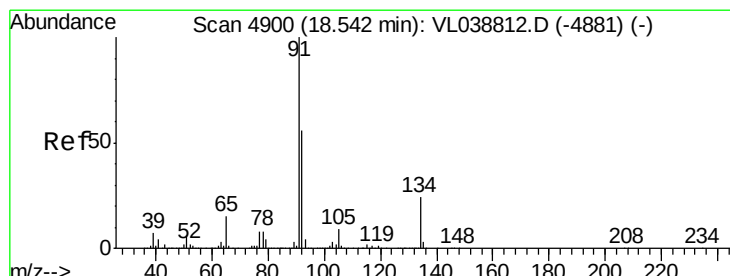
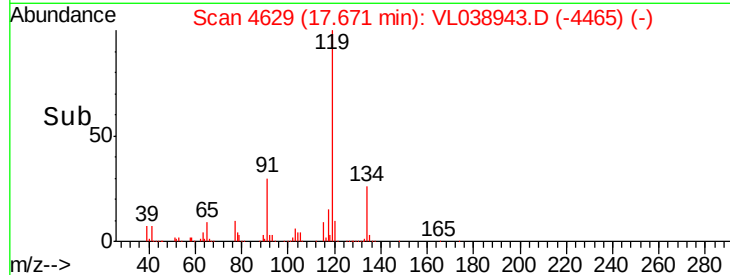
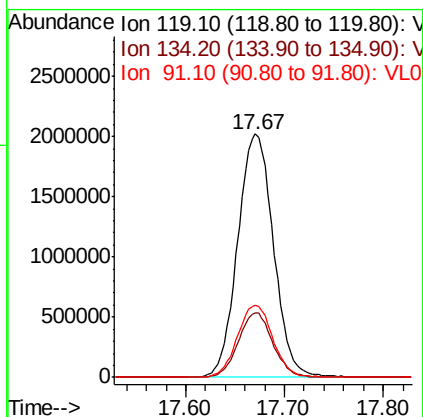
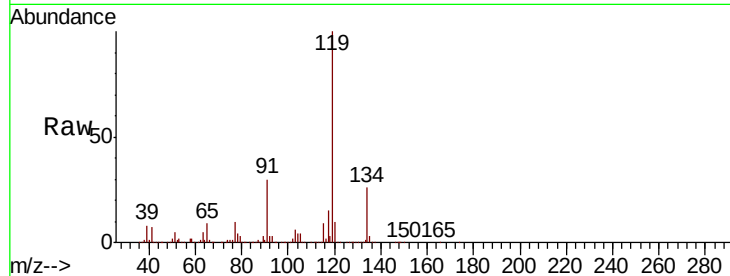
175 4.6 4.0 6.0





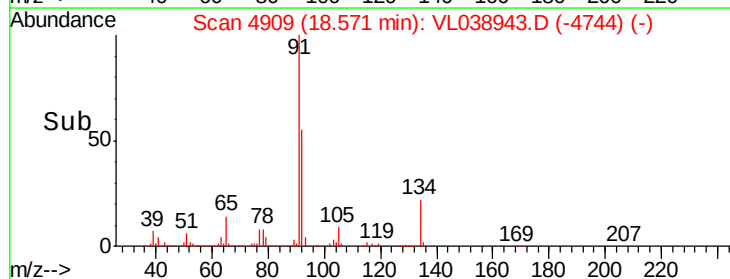
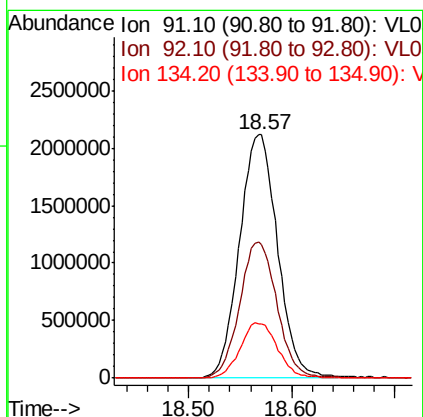
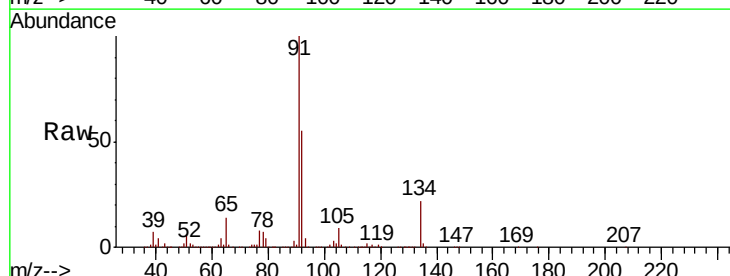
#69  
 p-Isopropyltoluene  
 Concen: 7.476 ppbv  
 RT: 17.67 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 Acq: 19 Apr 2022 9:55

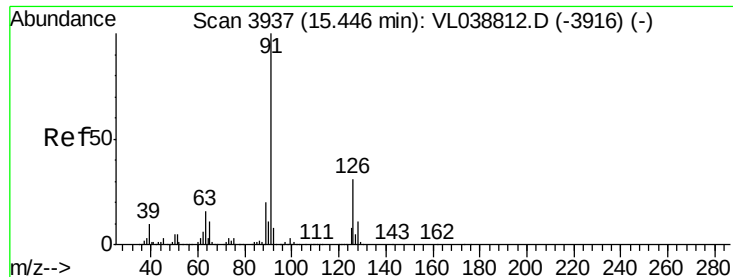
| Tot Ion: | 119   | Resp: | 5068499 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 119      | 100   |       |         |
| 134      | 25.8  | 20.8  | 31.2    |
| 91       | 29.5  | 22.6  | 34.0    |



#70  
 n-Butylbenzene  
 Concen: 7.943 ppbv  
 RT: 18.57 min Scan# 4909  
 Delta R.T. 0.03 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

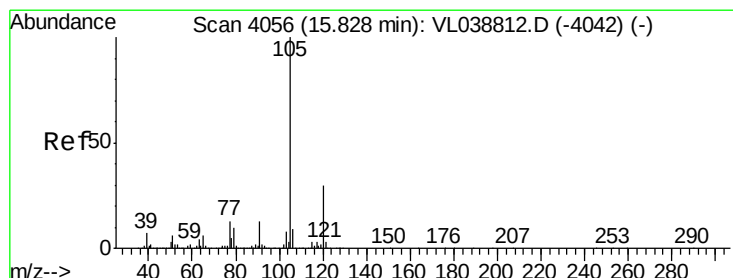
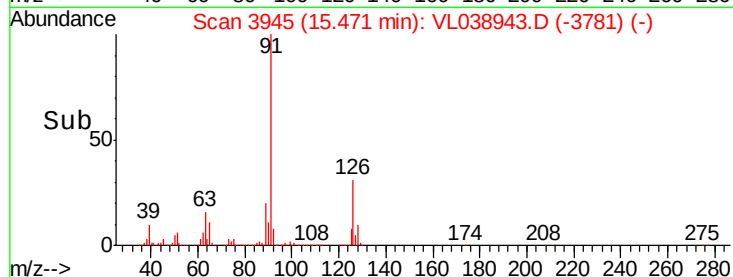
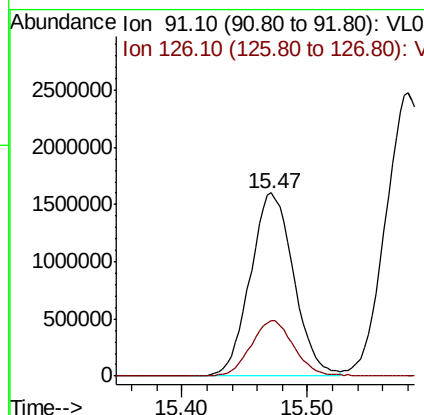
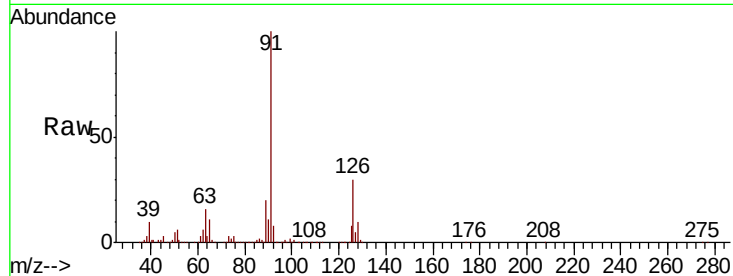
| Tgt Ion: | 91    | Resp: | 5425133 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 92       | 55.1  | 44.6  | 66.8    |
| 134      | 22.3  | 19.2  | 28.8    |





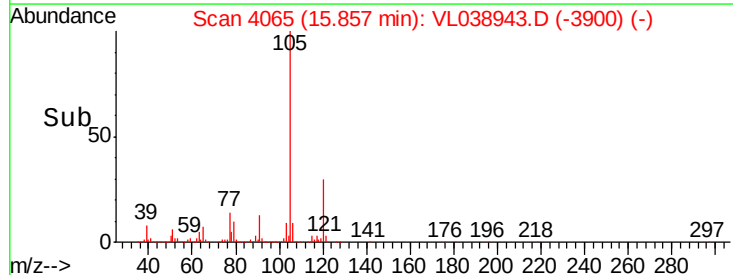
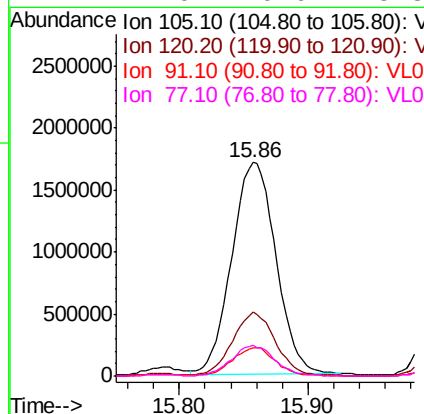
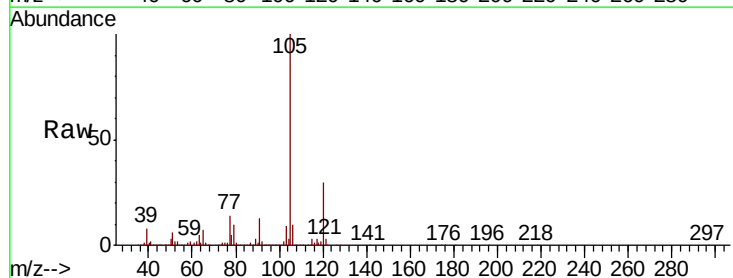
#71  
 2-Chlorotoluene  
 Concen: 7.730 ppbv  
 RT: 15.47 min  
 Instrument: MSVOA\_1  
 Delta R.T.:  
 Lab File: ClientSampleId:  
 VSTDCCC010  
 Acq: 19 Apr 2022 9:55

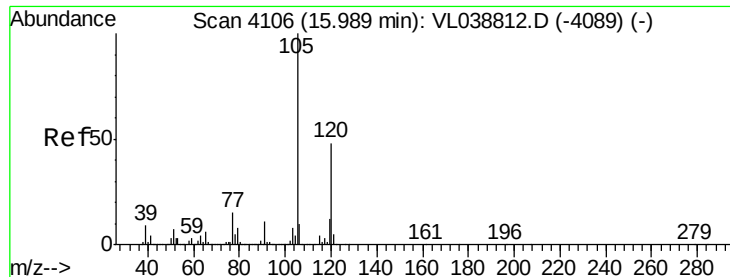
Tot Ion: 91 Resp: 3854943  
 Ion Ratio Lower Upper  
 91 100  
 126 30.7 13.0 51.8



#72  
 4-Ethyltoluene  
 Concen: 7.755 ppbv  
 RT: 15.86 min Scan# 4065  
 Delta R.T.: 0.03 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

Tgt Ion: 105 Resp: 4091969  
 Ion Ratio Lower Upper  
 105 100  
 120 29.2 24.3 36.5  
 91 12.7 9.4 14.2  
 77 14.0 10.6 15.8





#73

1,3,5-Trimethylbenzene

Concen: 7.740 ppbv

RT: 16.01 min

Delta R.T. MSVOA\_L

Lab File: ClientSampleId:

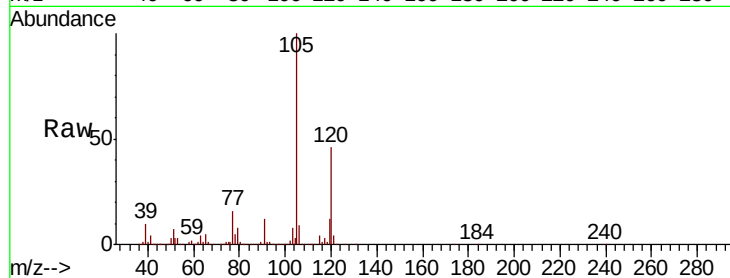
Acq: 19 Apr 2022 9:55

Tot Ion:105 Resp: 3668795

Ion Ratio Lower Upper

105 100

120 46.4 38.7 58.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

1500000

1000000

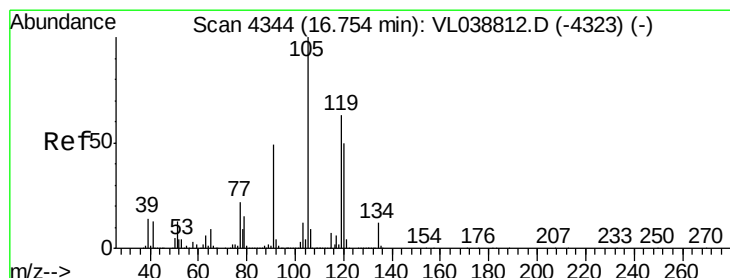
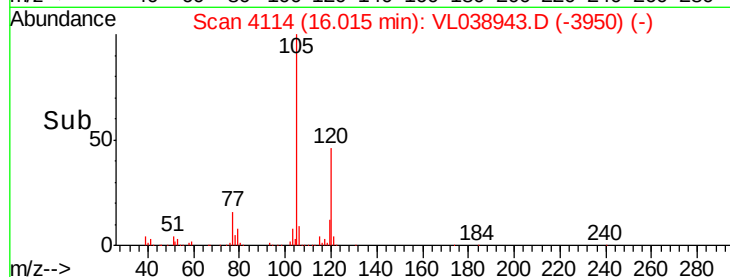
500000

0

16.01

15.90 16.00 16.10

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 7.650 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. 0.03 min

Lab File: VL038943.D

Acq: 19 Apr 2022 9:55

Tgt Ion:105 Resp: 3833151

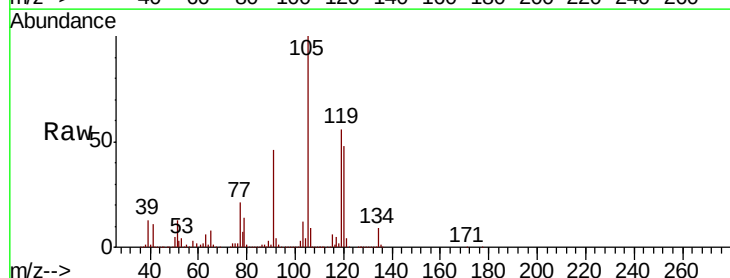
Ion Ratio Lower Upper

105 100

120 47.6 39.8 59.8

91 46.1 39.4 59.0

77 21.2 17.3 25.9



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

2500000

2000000

1500000

1000000

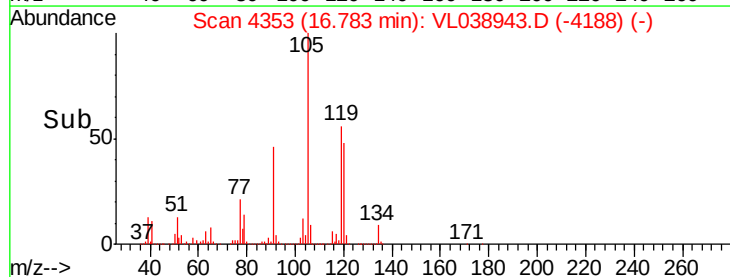
500000

0

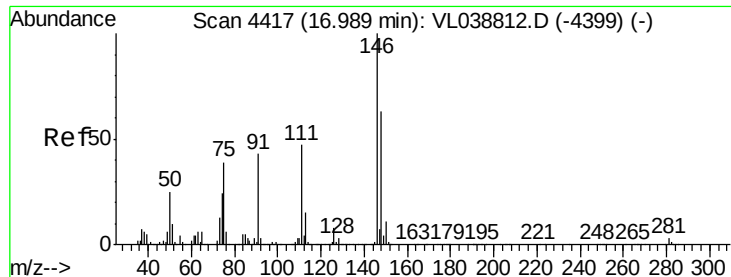
16.78

16.70 16.80 16.90

Time-->

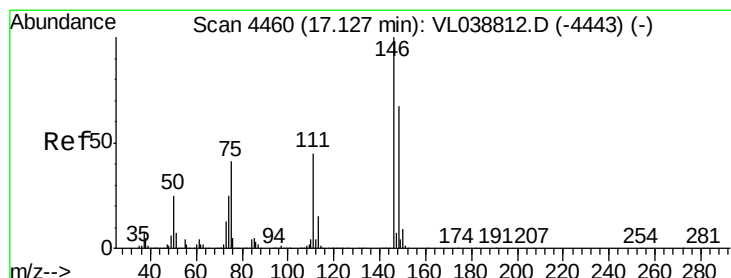
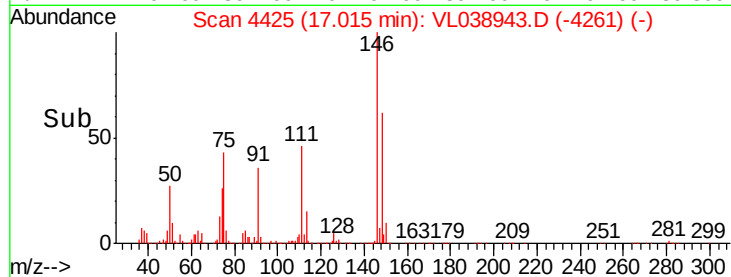
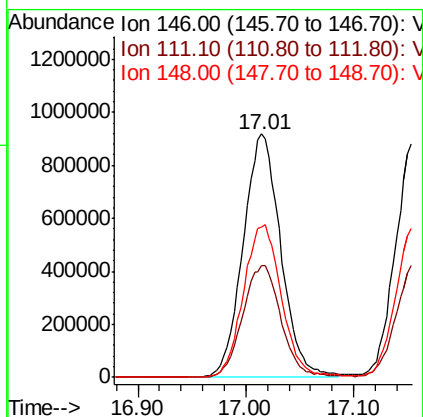
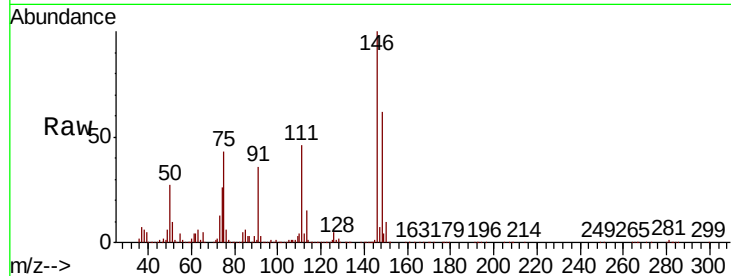






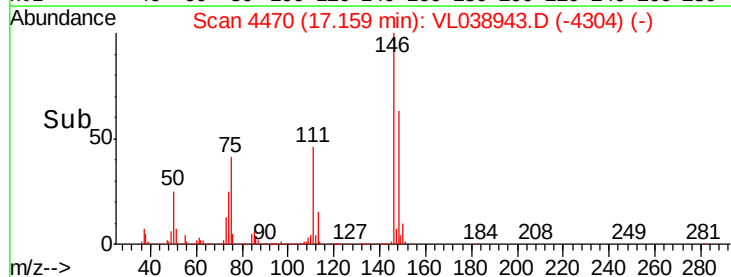
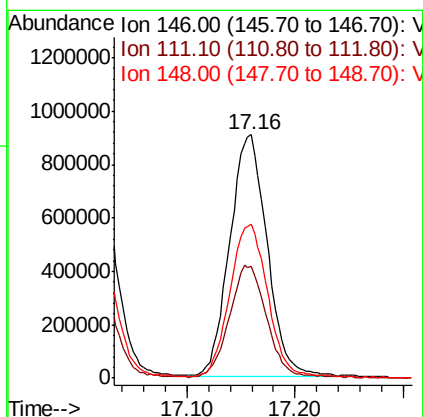
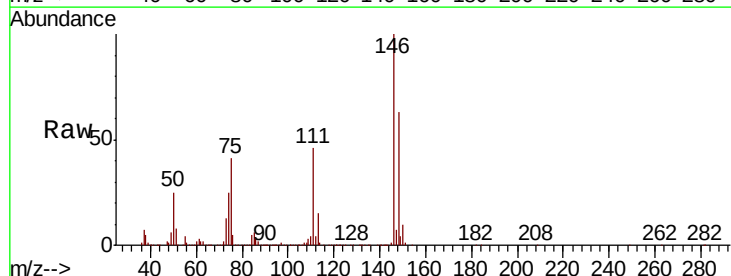
#75  
 1,3-Dichlorobenzene  
 Concen: 7.637 ppbv  
 RT: 17.01 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Apr 2022 9:55

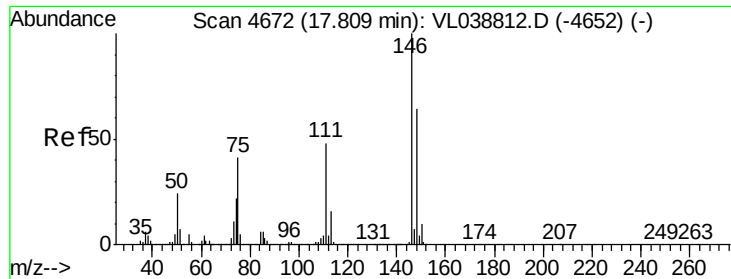
Tot Ion:146 Resp: 2221806  
 Ion Ratio Lower Upper  
 146 100  
 111 47.0 23.8 71.2  
 148 63.4 31.8 95.4



#76  
 1,4-Dichlorobenzene  
 Concen: 7.627 ppbv  
 RT: 17.16 min Scan# 4470  
 Delta R.T. 0.03 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

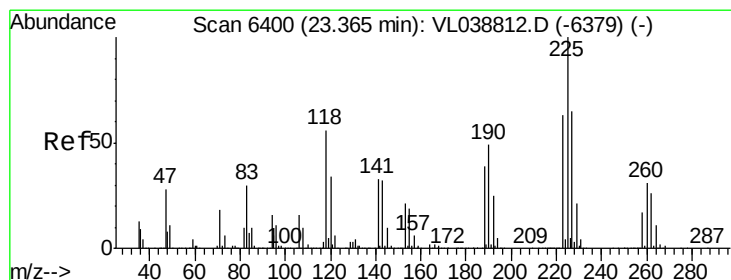
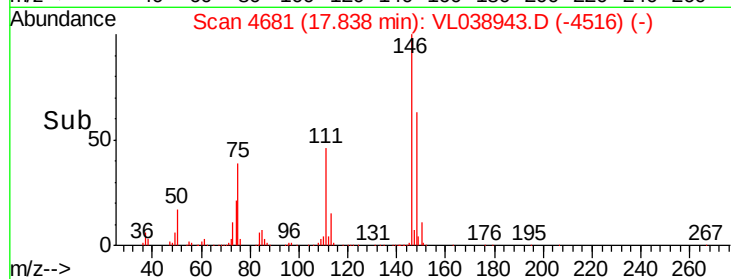
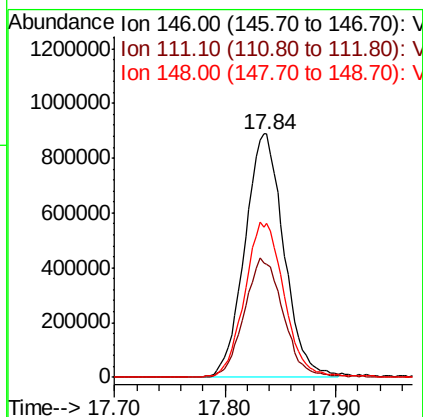
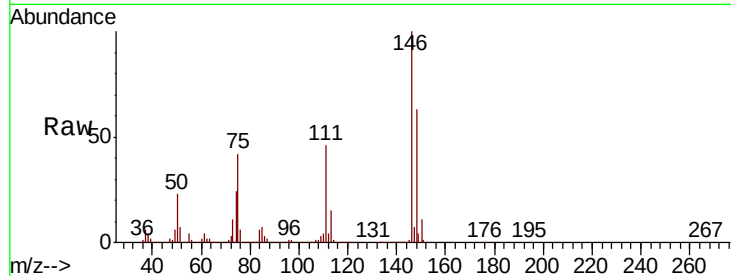
Tgt Ion:146 Resp: 2185634  
 Ion Ratio Lower Upper  
 146 100  
 111 46.9 23.6 70.8  
 148 65.7 33.6 100.6





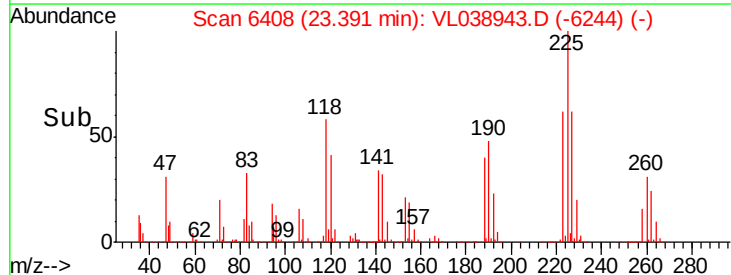
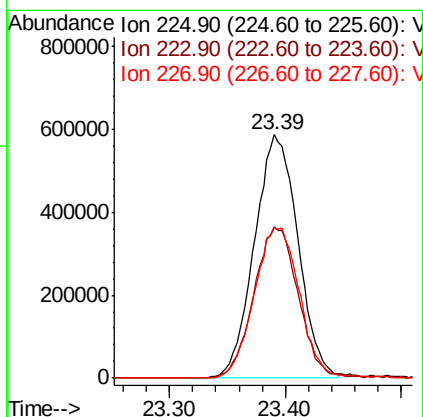
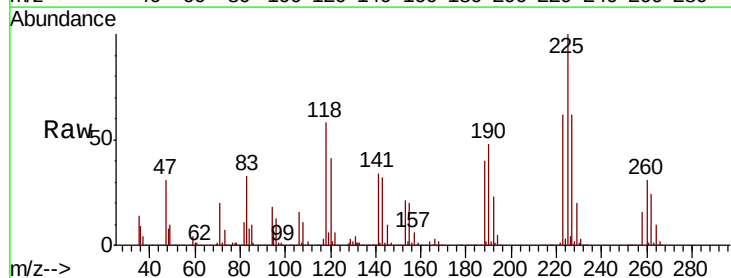
#77  
 1,2-Dichlorobenzene  
 Concen: 7.576 ppbv  
 RT: 17.84 min  
 Delta R.T. MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Apr 2022 9:55

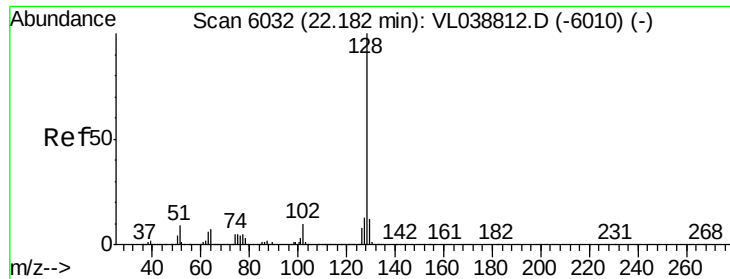
Tot Ion:146 Resp: 2172646  
 Ion Ratio Lower Upper  
 146 100  
 111 48.8 24.8 74.3  
 148 64.6 31.9 95.7



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 6.753 ppbv  
 RT: 23.39 min Scan# 6408  
 Delta R.T. 0.03 min  
 Lab File: VL038943.D  
 Acq: 19 Apr 2022 9:55

Tgt Ion:225 Resp: 1530145  
 Ion Ratio Lower Upper  
 225 100  
 223 63.9 51.6 77.4  
 227 64.5 52.3 78.5

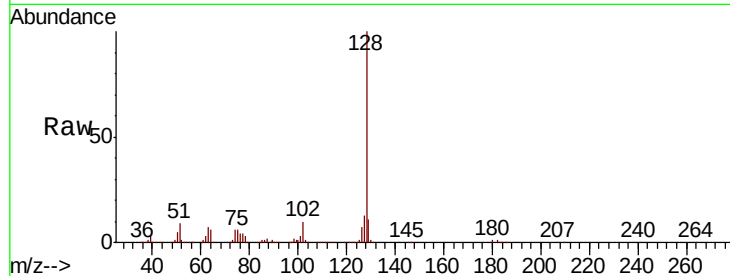




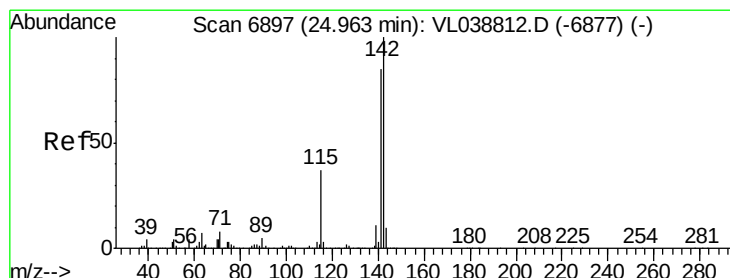
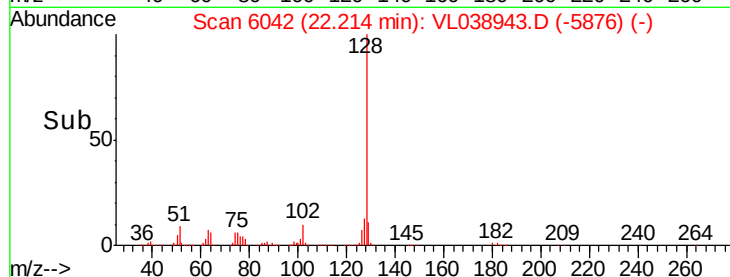
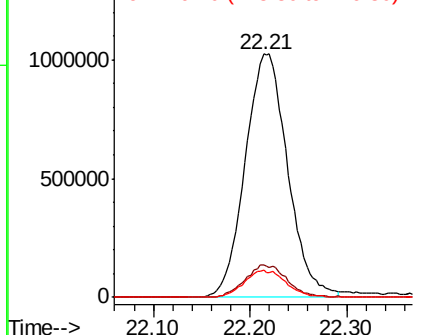
#79  
Naphthalene  
Concen: 8.344 ppbv  
RT: 22.21 min  
Delta R.T. MSVOA\_L  
Lab File: ClientSampleId :  
Acq: 19 Apr 2022 9:55

Tot Ion:128 Resp: 3127543

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.4  | 10.6  | 15.8  |
| 129 | 11.5  | 9.4   | 14.0  |



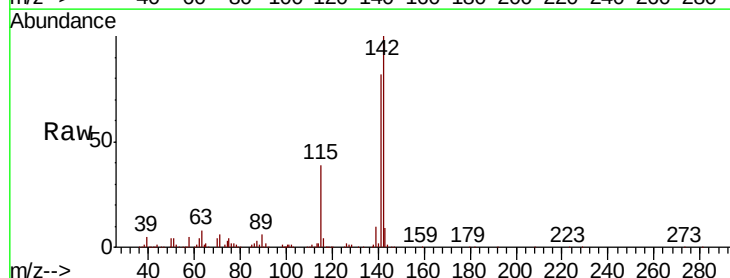
Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V



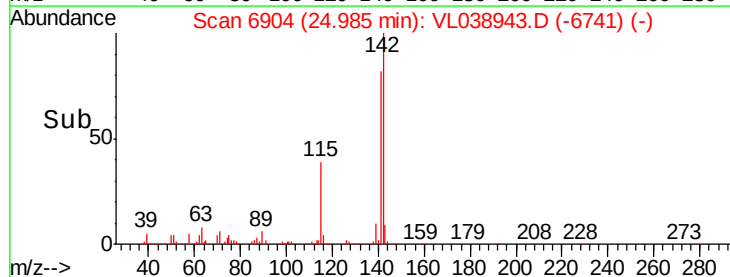
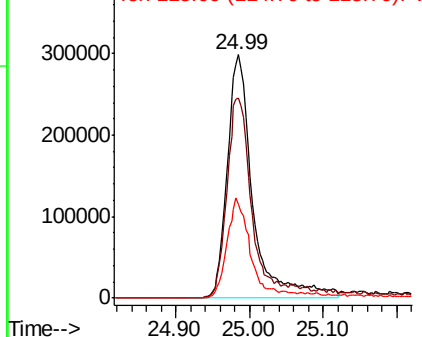
#80  
Naphthalene, 2-methyl-  
Concen: 7.830 ppbv  
RT: 24.99 min Scan# 6904  
Delta R.T. 0.02 min  
Lab File: VL038943.D  
Acq: 19 Apr 2022 9:55

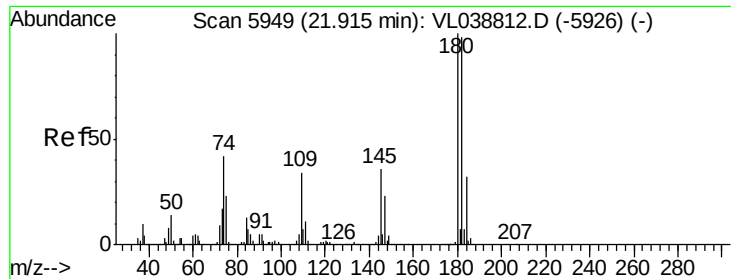
Tgt Ion:142 Resp: 723213

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 141 | 88.3  | 68.8  | 103.2 |
| 115 | 39.9  | 31.6  | 47.4  |



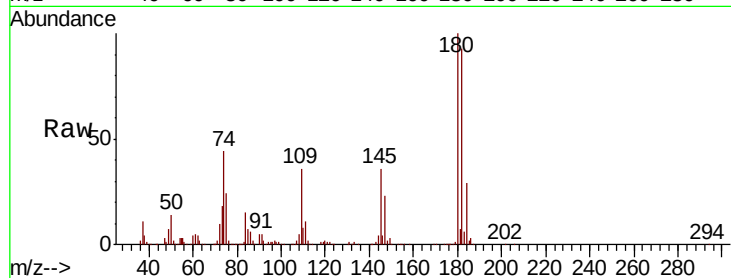
Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 7.856 ppbv  
 RT: 21.94  
 Delta R.T: MSVOA\_L  
 Lab File: ClientSampleId :  
 VSTDCCC010  
 Acq: 19 Apr 2022 9:55

Tot Ion:180 Resp: 1723196  
 Ion Ratio Lower Upper  
 180 100  
 182 98.0 79.4 119.0  
 184 30.9 25.0 37.6



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

