

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092321\  
 Data File : VL037656.D  
 Acq On : 23 Sep 2021 11:02  
 Operator : SY/AP  
 Sample : VL0923ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Sep 24 06:35:32 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 16 13:42:46 2021  
 QLast Update : Thu Sep 16 13:42:46 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1596557  | 10.00 | ppbv  | 0.02     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4751537  | 10.00 | ppbv  | 0.02     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 5355418  | 10.00 | ppbv  | 0.02     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 3244123  | 8.38     | ppbv | 0.03   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 83.80% |

| Target Compounds               |      |     |         |        | Ovalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 1702526 | 5.893  | ppbv 99   |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 2658873 | 8.829  | ppbv 99   |
| 4) Chloromethane               | 3.14 | 50  | 973969  | 8.754  | ppbv 98   |
| 5) Vinyl Chloride              | 3.26 | 62  | 1012098 | 9.685  | ppbv 97   |
| 6) Bromomethane                | 3.47 | 94  | 503651  | 8.292  | ppbv 93   |
| 7) Chloroethane                | 3.56 | 64  | 343200  | 8.787  | ppbv 98   |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 2095107 | 8.406  | ppbv 100  |
| 9) Propene                     | 3.01 | 41  | 928071  | 8.737  | ppbv 99   |
| 10) Heptane                    | 8.13 | 43  | 2408195 | 9.715  | ppbv 100  |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 2070462 | 8.927  | ppbv 99   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1599312 | 9.341  | ppbv 99   |
| 13) Ethanol                    | 3.62 | 45  | 81329   | 7.827  | ppbv 99   |
| 14) Bromoethene                | 3.74 | 108 | 703098  | 9.022  | ppbv 98   |
| 15) Acetone                    | 3.85 | 43  | 1157448 | 6.978  | ppbv 96   |
| 16) 1,3-Butadiene              | 3.33 | 39  | 960107  | 9.263  | ppbv 99   |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1463156 | 10.402 | ppbv 99   |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 725769  | 9.100  | ppbv 92   |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 868120  | 9.618  | ppbv # 96 |
| 20) Methylene Chloride         | 4.35 | 84  | 645810  | 8.155  | ppbv 96   |
| 21) Allyl Chloride             | 4.41 | 41  | 1182336 | 9.541  | ppbv 99   |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 734546  | 9.154  | ppbv 98   |
| 23) Vinyl Acetate              | 5.08 | 43  | 1841157 | 8.021  | ppbv # 98 |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1511359 | 9.191  | ppbv 99   |
| 25) Ethyl Acetate              | 5.68 | 43  | 3706909 | 9.227  | ppbv 99   |
| 26) Hexane                     | 5.69 | 57  | 1777476 | 9.314  | ppbv 99   |
| 27) Carbon Disulfide           | 4.55 | 76  | 1824910 | 10.453 | ppbv 98   |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 1585129 | 9.430  | ppbv 99   |
| 29) Chloroform                 | 5.75 | 83  | 2475323 | 8.882  | ppbv 94   |
| 30) Cyclohexane                | 7.14 | 84  | 1498961 | 9.184  | ppbv 99   |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61  | 1622375 | 9.364  | ppbv 96   |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97  | 2427086 | 9.355  | ppbv 100  |
| 34) 2-Butanone                 | 5.25 | 43  | 1360789 | 7.047  | ppbv 99   |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 2548429 | 9.481  | ppbv 99   |
| 36) Benzene                    | 6.89 | 78  | 3631540 | 9.166  | ppbv 98   |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 1780490 | 9.137  | ppbv 99   |
| 38) Trichloroethene            | 7.84 | 130 | 1457429 | 8.806  | ppbv 96   |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1392664 | 9.177  | ppbv 94   |
| 40) 1,4-Dioxane                | 7.84 | 88  | 128051  | 3.469  | ppbv # 1  |
| 41) Tetrahydrofuran            | 6.05 | 42  | 868859  | 9.572  | ppbv 100  |
| 42) Bromodichloromethane       | 7.80 | 83  | 2674306 | 9.575  | ppbv 97   |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1314969 | 9.976  | ppbv 98   |

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 Sample : VL0923ABS01  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

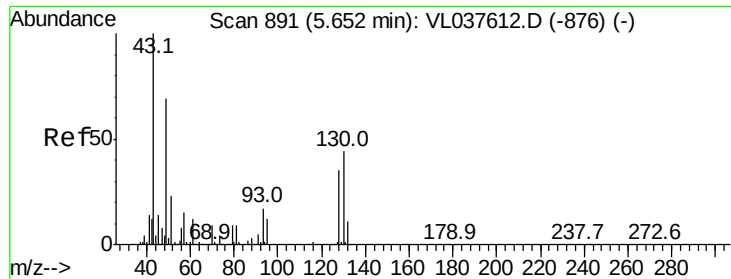
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Sep 24 06:35:32 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 16 13:42:46 2021  
 QLast Update : Thu Sep 16 13:42:46 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 6097518  | 9.154  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 994592   | 9.606  | ppbv   | 93       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1304046  | 9.324  | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 1476280  | 8.794  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.31 | 129  | 2367194  | 10.108 | ppbv   | 98       |
| 49) Bromoform                 | 13.05 | 173  | 1885889  | 10.061 | ppbv   | 96       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 2378728  | 9.706  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.14 | 43   | 1086411  | 10.047 | ppbv   | 97       |
| 52) Tetrachloroethene         | 11.23 | 164  | 1335188  | 8.778  | ppbv   | 99       |
| 53) Toluene                   | 9.81  | 91   | 4291120  | 9.744  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 2113783  | 9.196  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 12.13 | 131  | 1623715  | 7.309  | ppbv   | 99       |
| 57) Chlorobenzene             | 12.15 | 112  | 3098214  | 6.959  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.71 | 91   | 5430365  | 7.639  | ppbv   | 100      |
| 59) m/p-Xylene                | 13.00 | 91   | 5403649  | 8.722  | ppbv # | 53       |
| 60) o-Xylene                  | 13.70 | 91   | 4312804  | 7.314  | ppbv   | 100      |
| 61) Styrene                   | 13.53 | 104  | 2408653  | 8.284  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.67 | 105  | 5772731  | 7.008  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 2959466  | 6.413  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.56 | 120  | 1532345  | 7.209  | ppbv   | 81       |
| 65) tert-Butylbenzene         | 16.74 | 119  | 5145978  | 6.929  | ppbv   | 100      |
| 66) Benzyl Chloride           | 16.99 | 91   | 245783   | 6.056  | ppbv   | 96       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 7106678  | 7.053  | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 5902343  | 7.170  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.55 | 91   | 5696344  | 7.313  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 4315119  | 7.310  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 5030421  | 7.432  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 4476022  | 7.094  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 4687065  | 7.053  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 2828760  | 6.851  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 2576937  | 6.328  | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 2659750  | 6.792  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 1994622  | 6.052  | ppbv   | 100      |
| 79) Naphthalene               | 22.20 | 128  | 3446806  | 8.447  | ppbv   | 100      |
| 80) Naphthalene, 2-methyl-    | 24.97 | 142  | 670994   | 7.195  | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 2060504  | 7.865  | ppbv   | 100      |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

ClientSampleId :

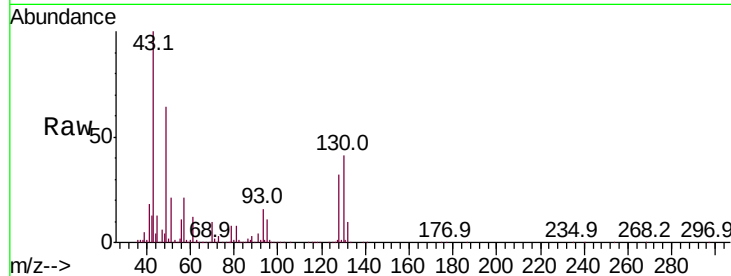
Tot Ion: 49 Resp: 1596557

Ion Ratio Lower Upper

49 100

128 54.6 27.9 83.6

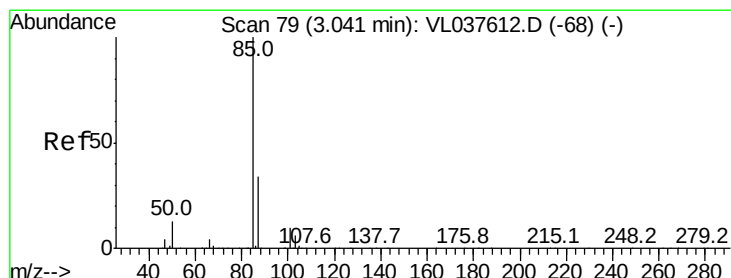
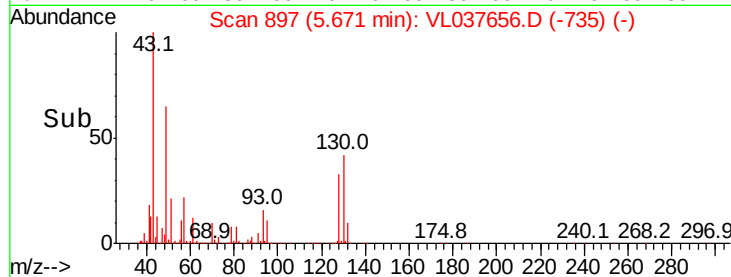
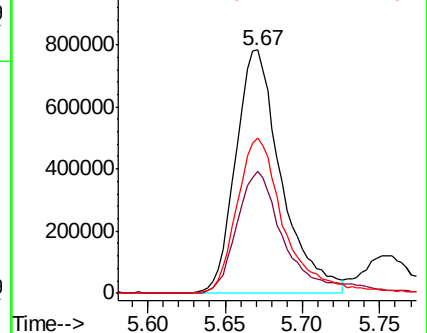
130 68.0 33.9 101.7



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: 5.893 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL037656.D

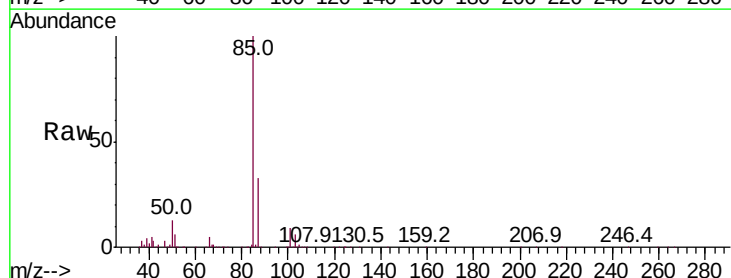
Acq: 23 Sep 2021 11:02

Tgt Ion: 85 Resp: 1702526

Ion Ratio Lower Upper

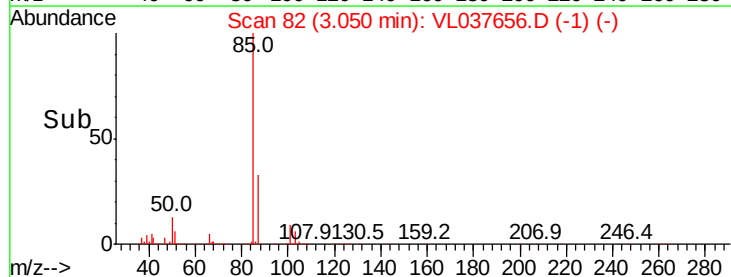
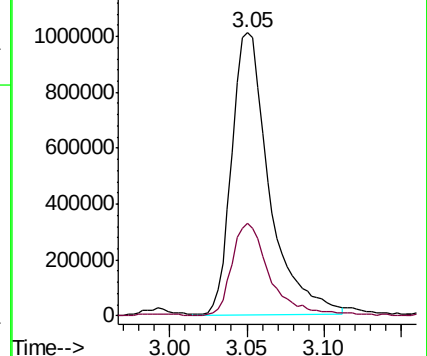
85 100

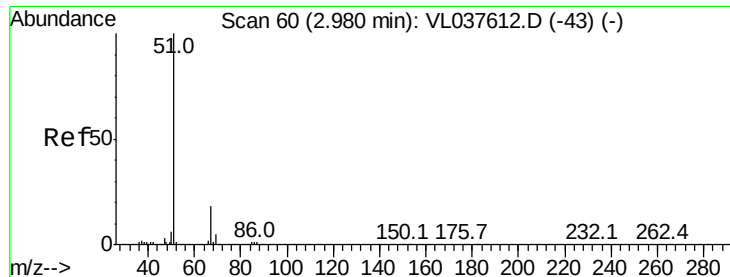
87 32.7 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.829 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

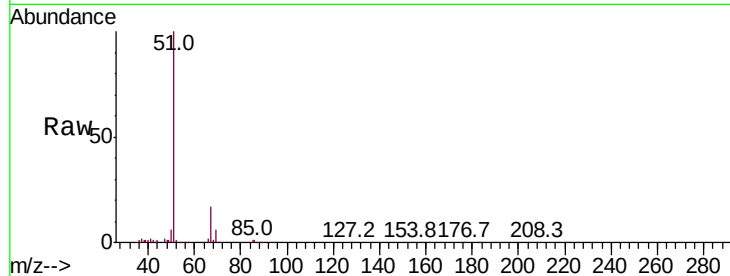
Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 51 Resp: 2658873

Ion Ratio Lower Upper

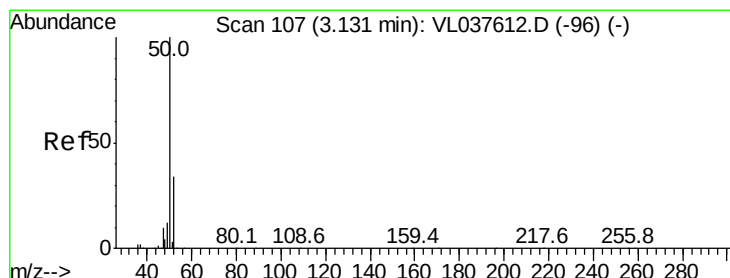
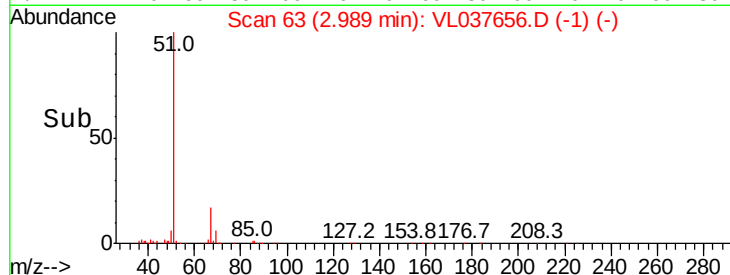
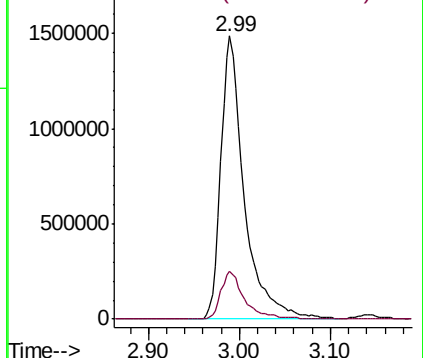
51 100

67 17.2 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 8.754 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.01 min

Lab File: VL037656.D

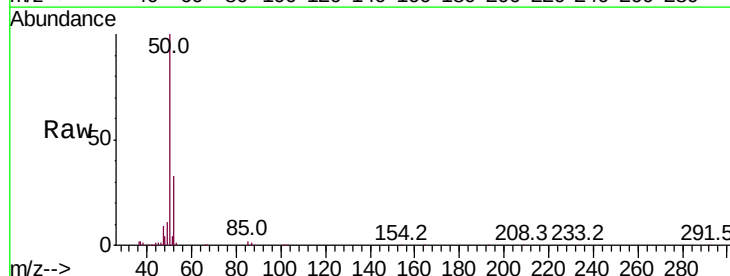
Acq: 23 Sep 2021 11:02

Tgt Ion: 50 Resp: 973969

Ion Ratio Lower Upper

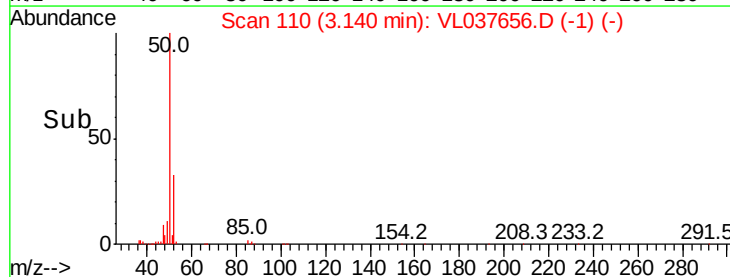
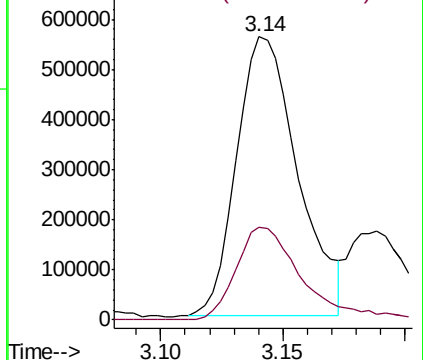
50 100

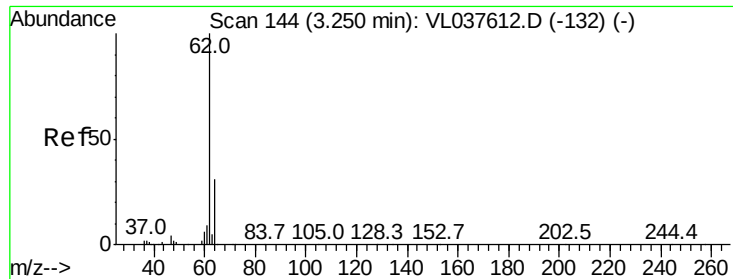
52 32.7 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.685 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.01 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

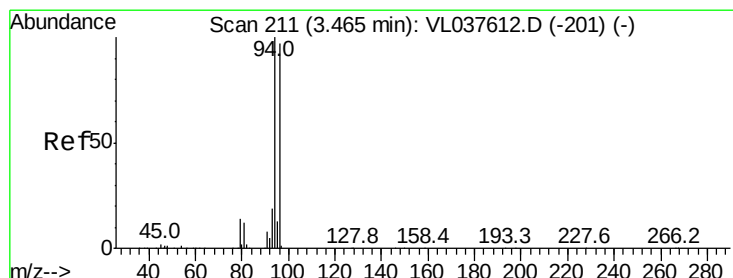
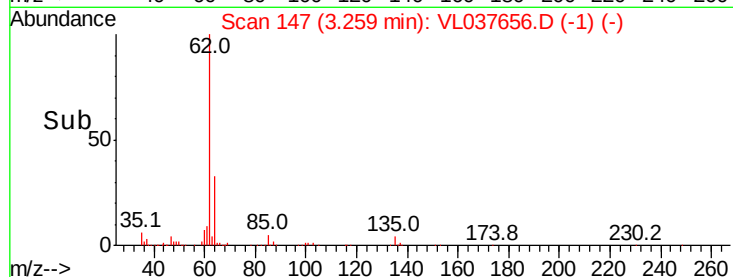
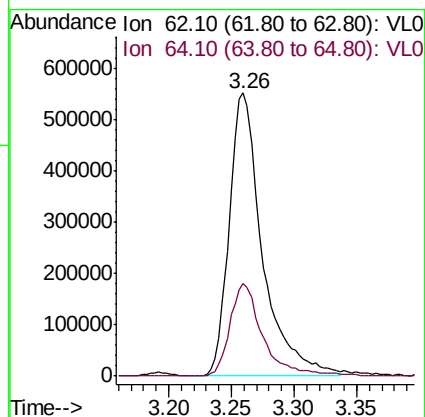
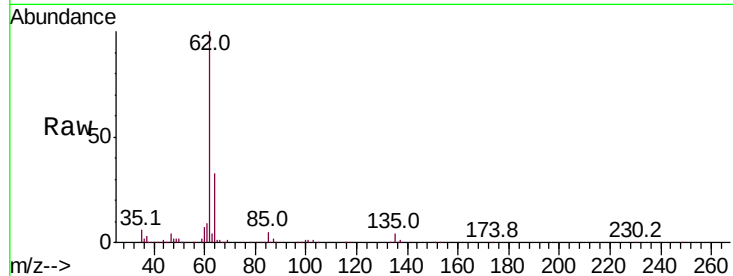
ClientSampleId :

Tot Ion: 62 Resp: 1012098

Ion Ratio Lower Upper

62 100

64 32.9 24.9 37.3



#6

Bromomethane

Concen: 8.292 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.01 min

Lab File: VL037656.D

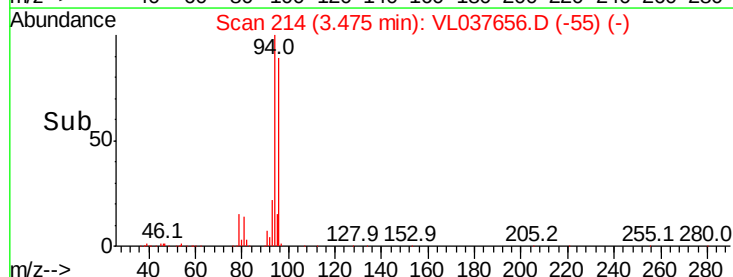
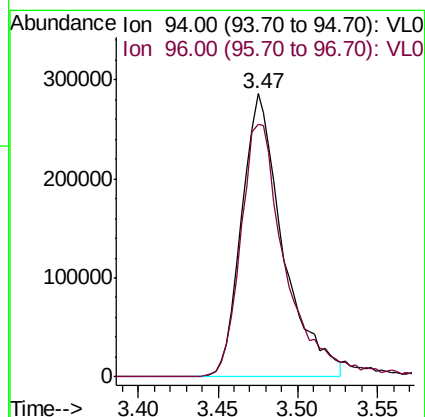
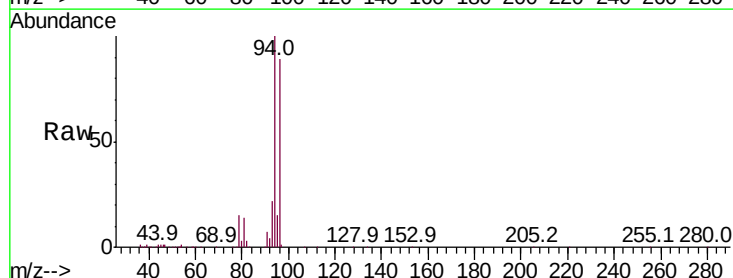
Acq: 23 Sep 2021 11:02

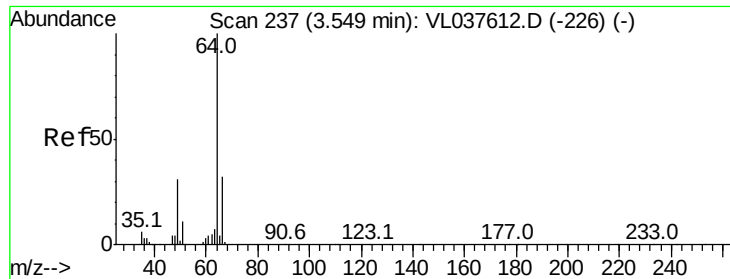
Tgt Ion: 94 Resp: 503651

Ion Ratio Lower Upper

94 100

96 89.3 77.3 115.9





#7

Chloroethane

Concen: 8.787 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.01 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

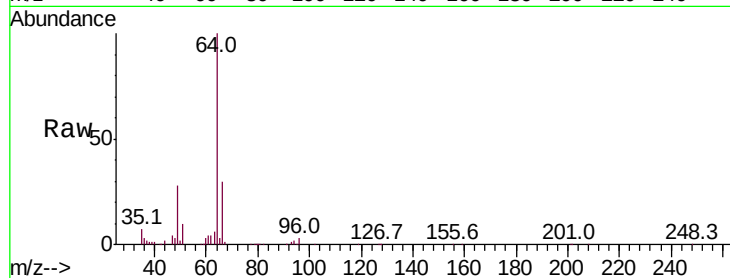
ClientSampleId :

Tot Ion: 64 Resp: 343200

Ion Ratio Lower Upper

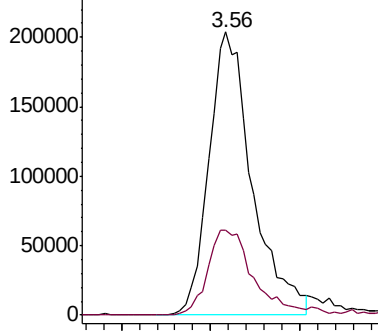
64 100

66 30.2 25.3 37.9

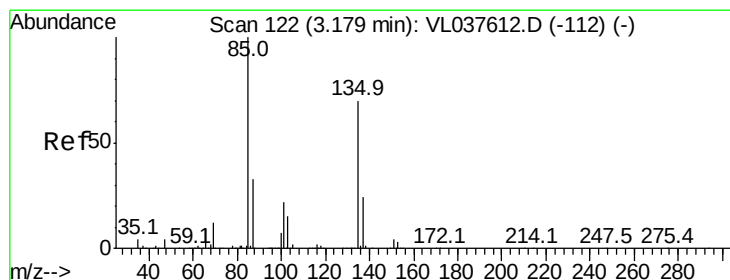
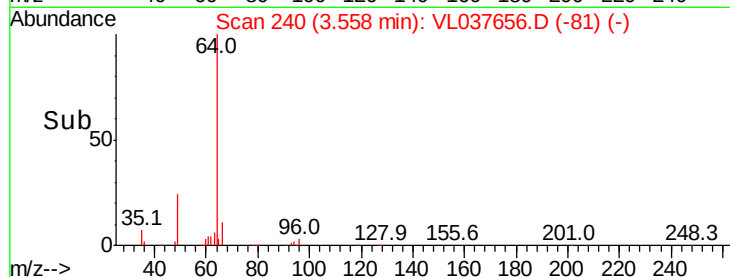


Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.406 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.01 min

Lab File: VL037656.D

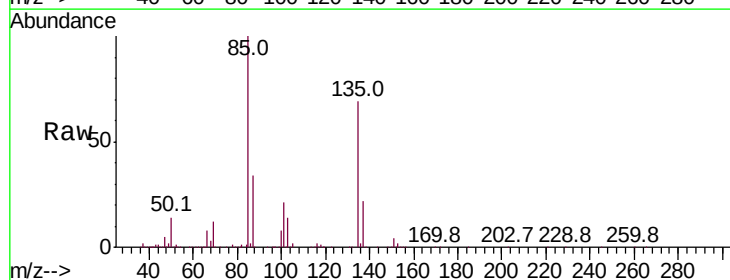
Acq: 23 Sep 2021 11:02

Tgt Ion: 85 Resp: 2095107

Ion Ratio Lower Upper

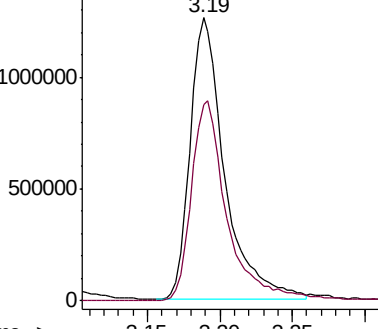
85 100

135 73.9 59.3 88.9

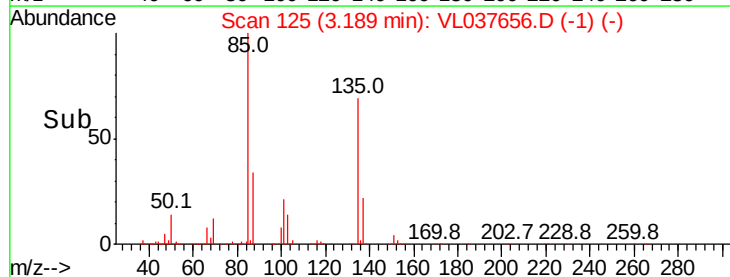


Abundance Ion 85.00 (84.70 to 85.70): VL0

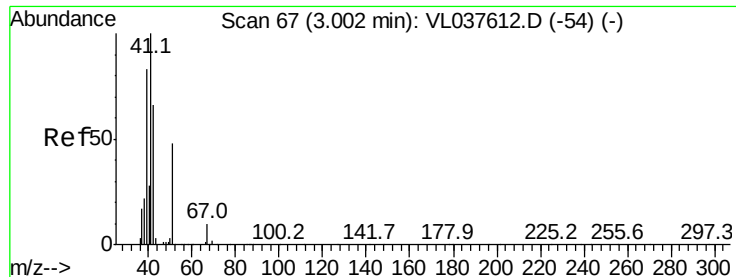
Ion 135.00 (134.70 to 135.70): V



Time-->







#9

Propene

Concen: 8.737 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

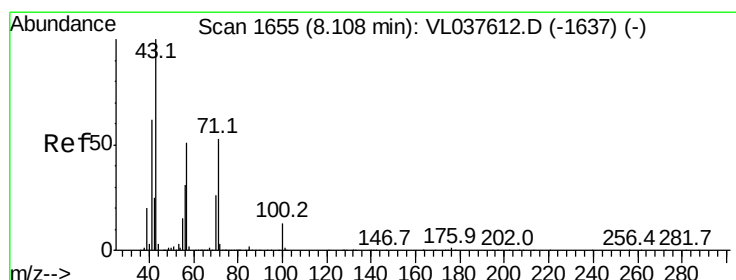
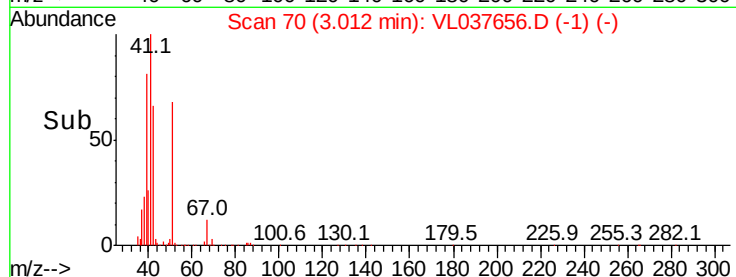
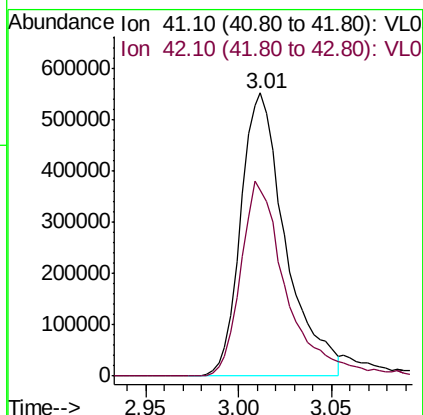
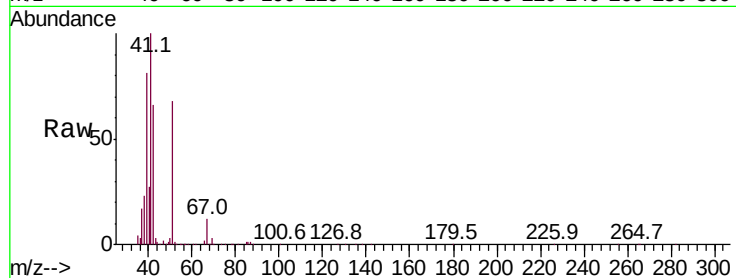
ClientSampleId :

Tot Ion: 41 Resp: 928071

Ion Ratio Lower Upper

41 100

42 70.8 57.2 85.8



#10

Heptane

Concen: 9.715 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.02 min

Lab File: VL037656.D

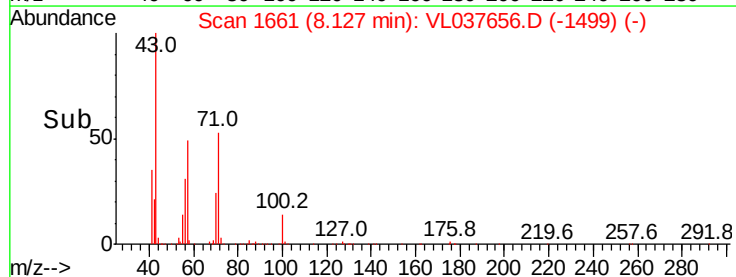
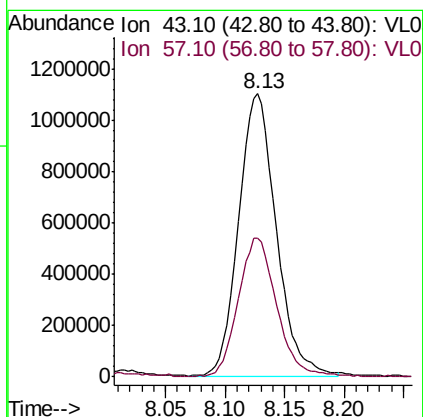
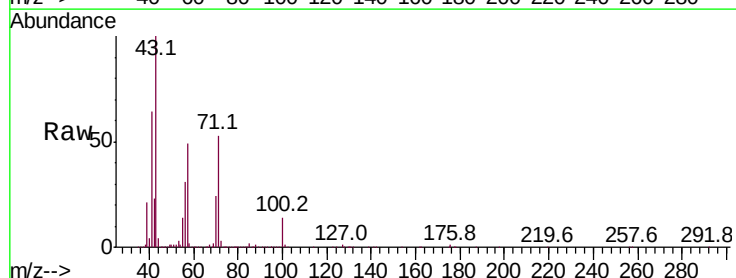
Acq: 23 Sep 2021 11:02

Tgt Ion: 43 Resp: 2408195

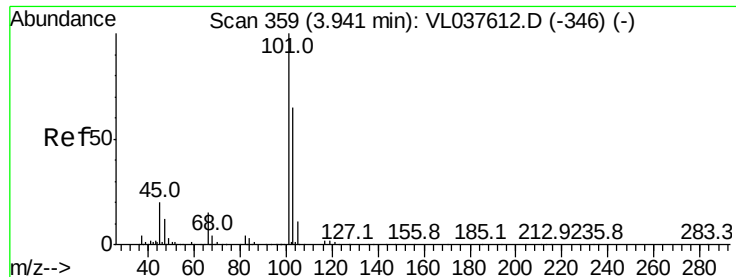
Ion Ratio Lower Upper

43 100

57 49.8 40.1 60.1







#11

Trichlorofluoromethane

Concen: 8.927 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

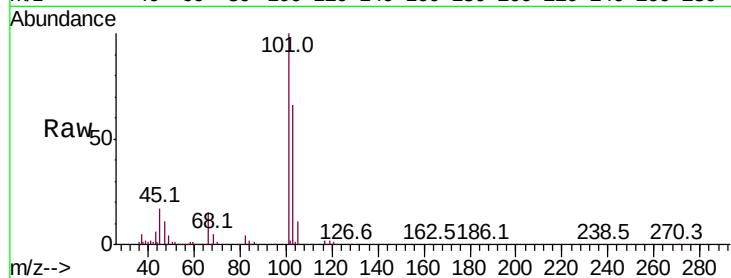
ClientSampleId :

Tot Ion:101 Resp: 2070462

Ion Ratio Lower Upper

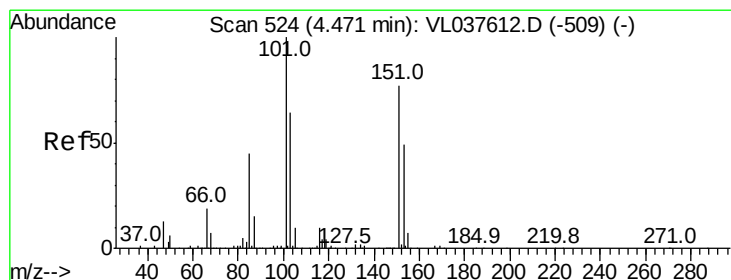
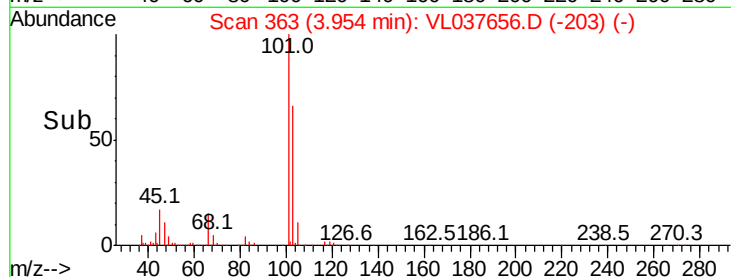
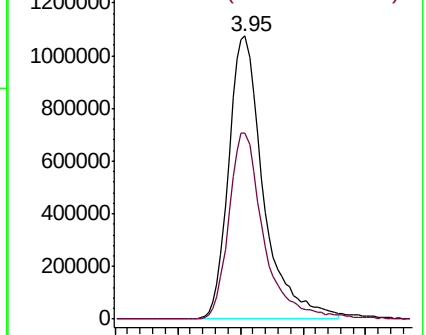
101 100

103 65.9 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.341 ppbv

RT: 4.49 min Scan# 529

Delta R.T. 0.02 min

Lab File: VL037656.D

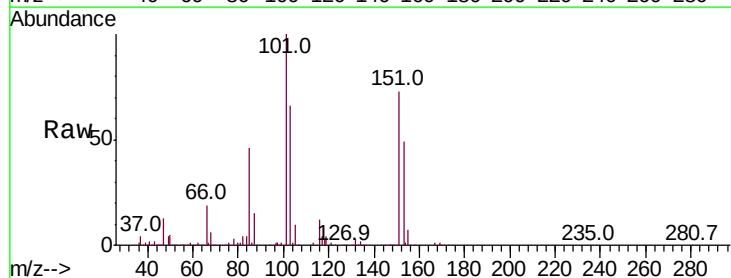
Acq: 23 Sep 2021 11:02

Tgt Ion:101 Resp: 1599312

Ion Ratio Lower Upper

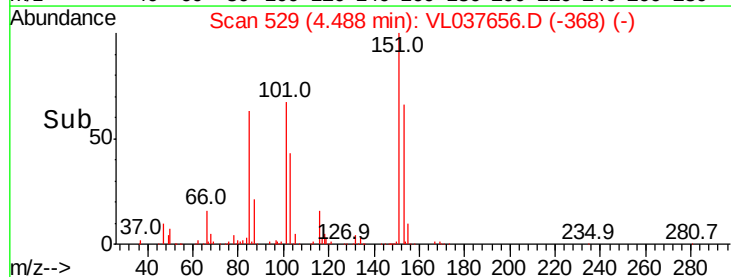
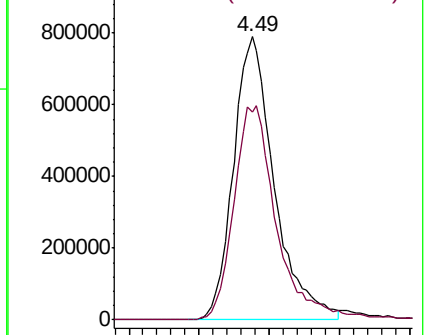
101 100

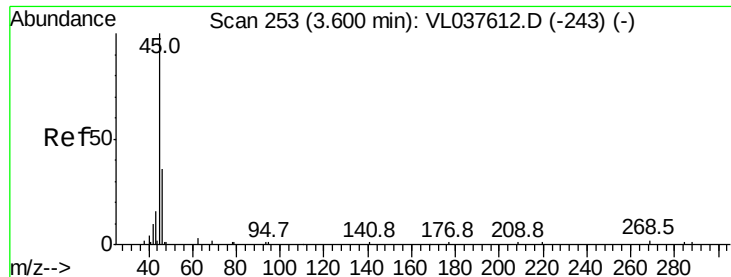
151 79.9 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

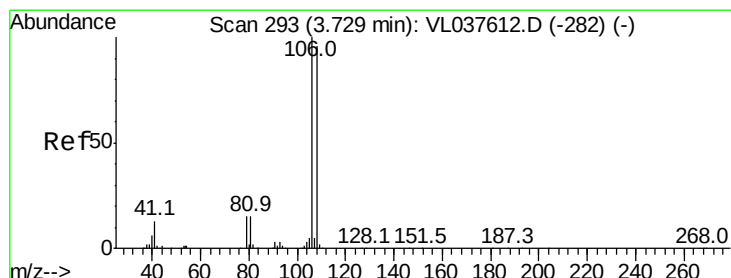
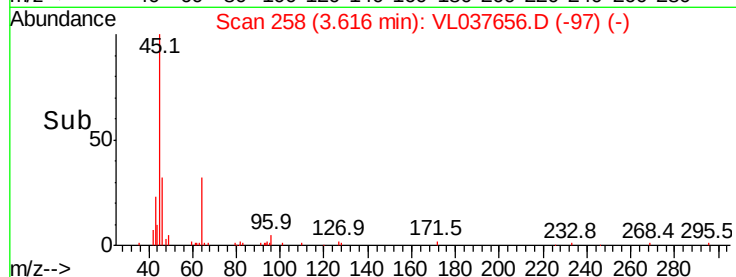
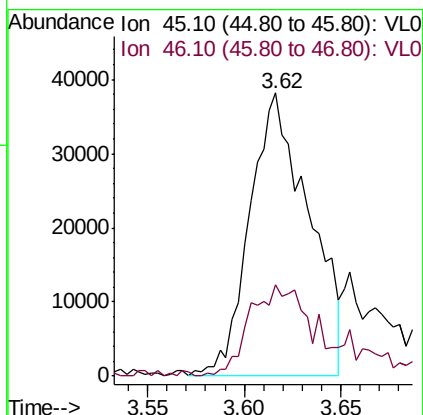
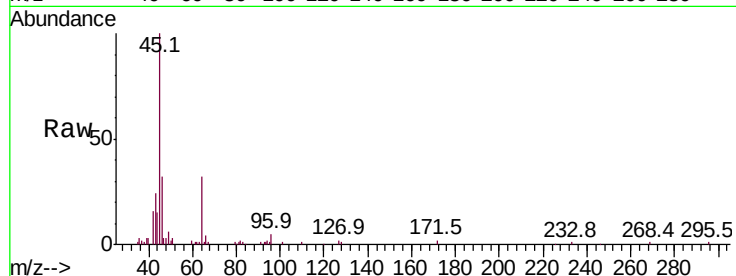




#13  
Ethanol  
Concen: 7.827 ppbv  
RT: 3.62 min Scan# 258  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

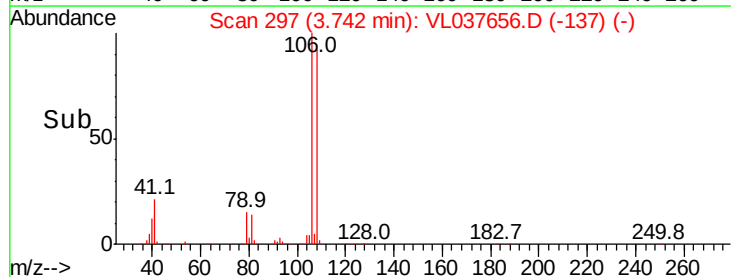
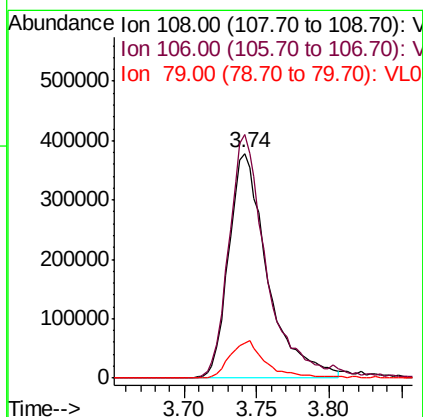
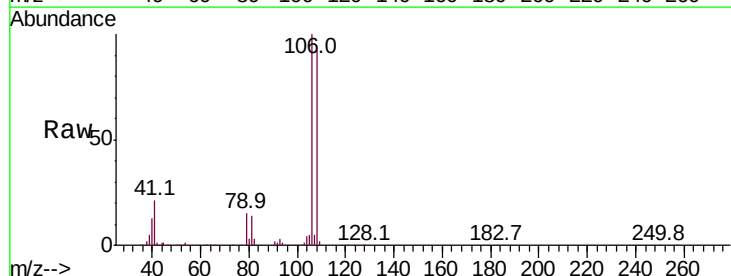
Instrument :  
MSVOA\_L  
ClientSampleId :

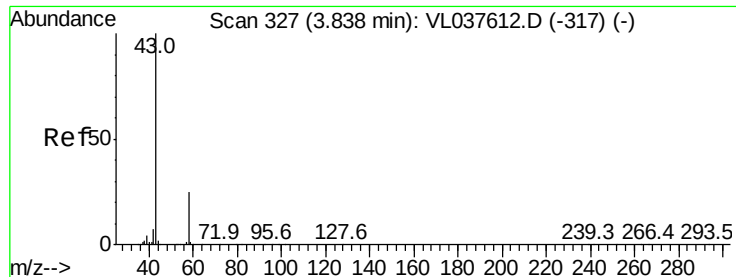
Tot Ion: 45 Resp: 81329  
Ion Ratio Lower Upper  
45 100  
46 43.5 17.2 68.8



#14  
Bromoethene  
Concen: 9.022 ppbv  
RT: 3.74 min Scan# 297  
Delta R.T. 0.01 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion: 108 Resp: 703098  
Ion Ratio Lower Upper  
108 100  
106 108.0 88.2 132.4  
79 15.8 12.8 19.2





#15

Acetone

Concen: 6.978 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

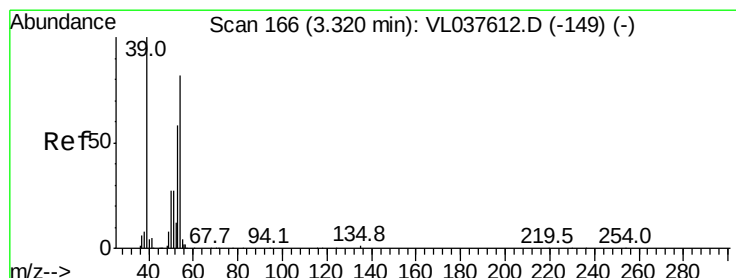
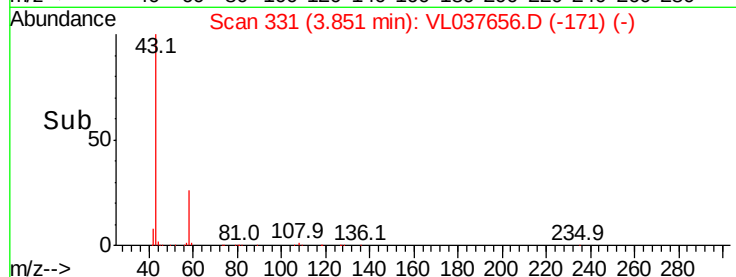
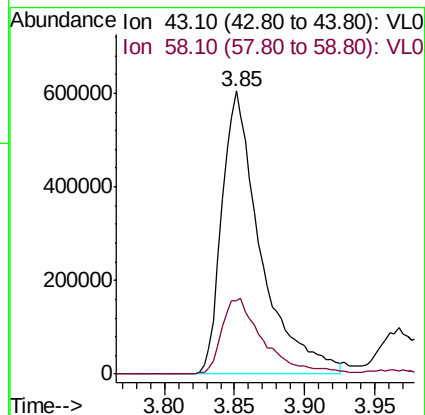
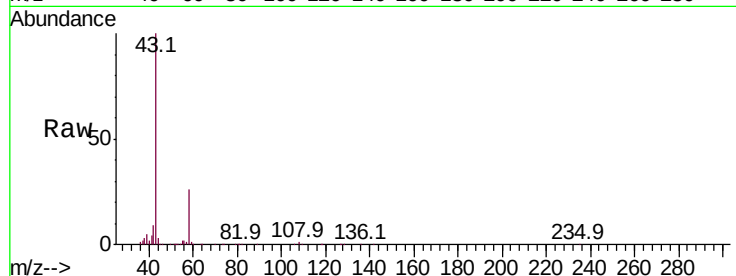
Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 43 Resp: 1157448

Ion Ratio Lower Upper

43 100

58 29.1 24.9 37.3



#16

1,3-Butadiene

Concen: 9.263 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.01 min

Lab File: VL037656.D

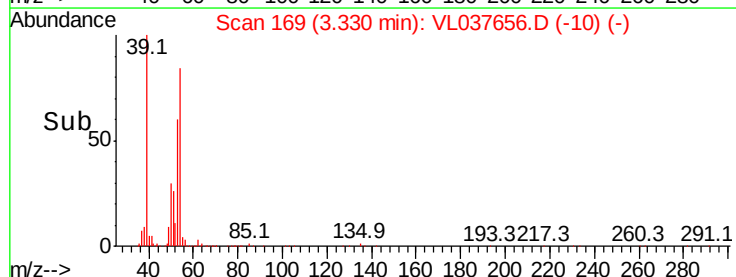
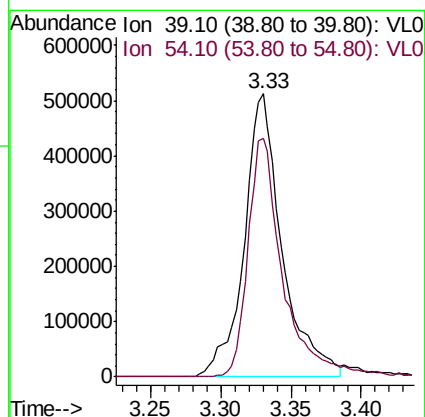
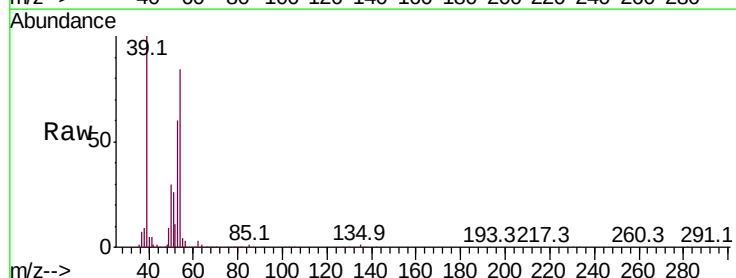
Acq: 23 Sep 2021 11:02

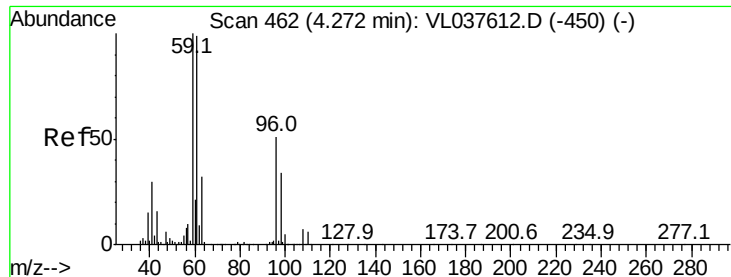
Tgt Ion: 39 Resp: 960107

Ion Ratio Lower Upper

39 100

54 79.1 62.6 93.8





#17

tert-Butyl alcohol

Concen: 10.402 ppbv

RT: 4.29 min Scan# 466

Delta R.T. 0.01 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

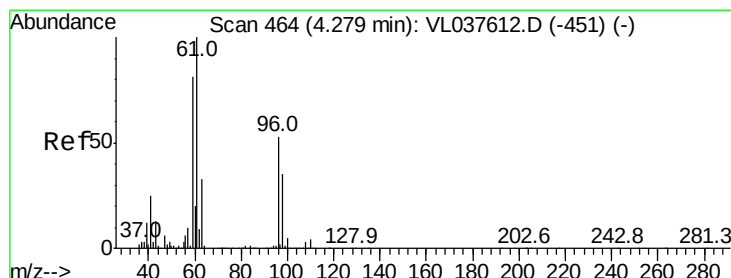
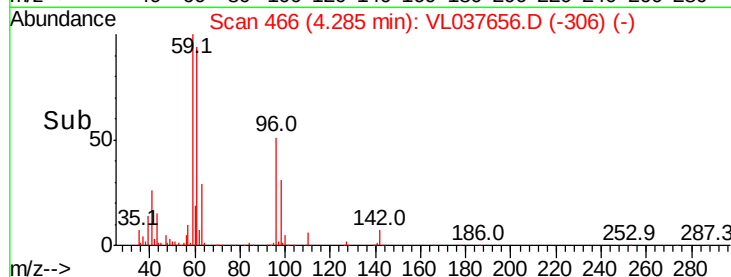
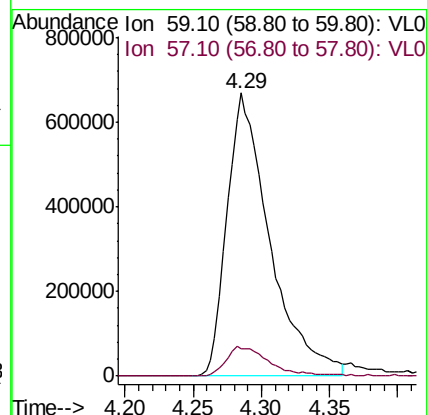
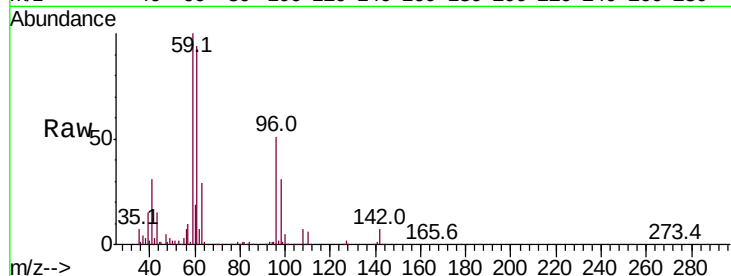
ClientSampleId :

Tot Ion: 59 Resp: 1463156

Ion Ratio Lower Upper

59 100

57 10.8 8.4 12.6



#18

1,1-Dichloroethene

Concen: 9.100 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.01 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

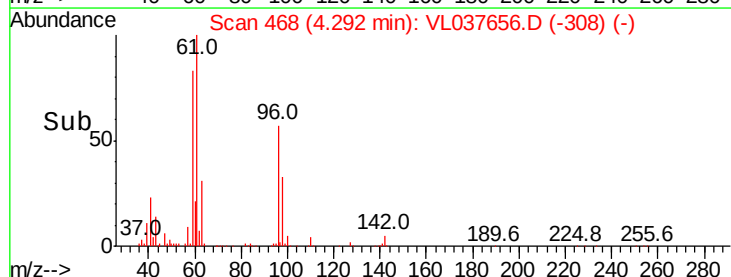
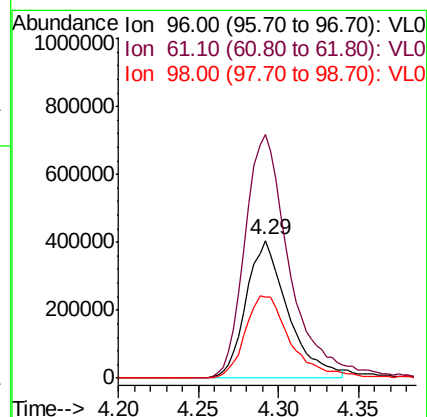
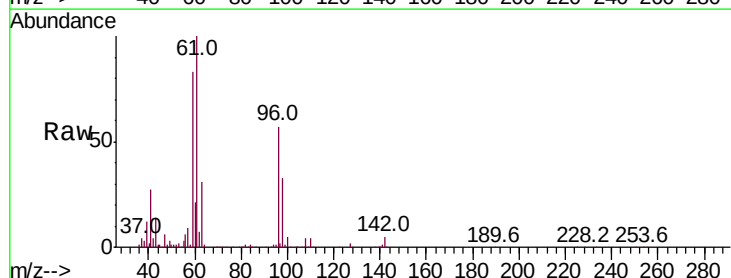
Tgt Ion: 96 Resp: 725769

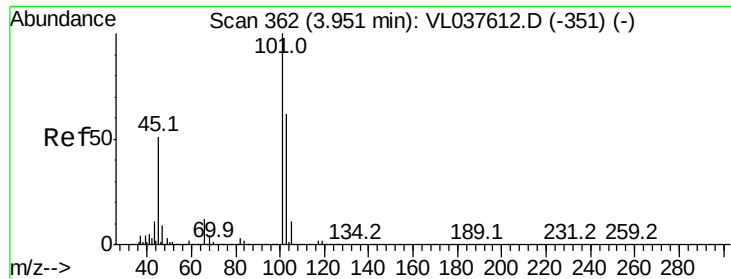
Ion Ratio Lower Upper

96 100

61 176.4 150.4 225.6

98 58.7 52.1 78.1





#19

Isopropyl Alcohol

Concen: 9.618 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

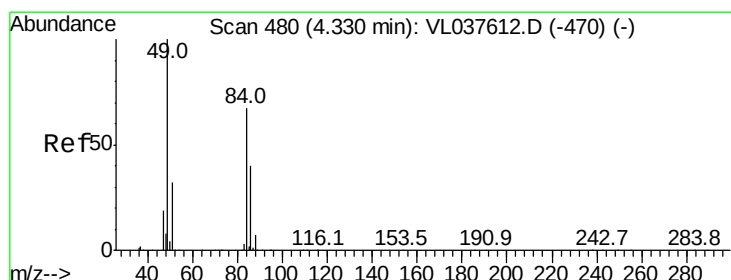
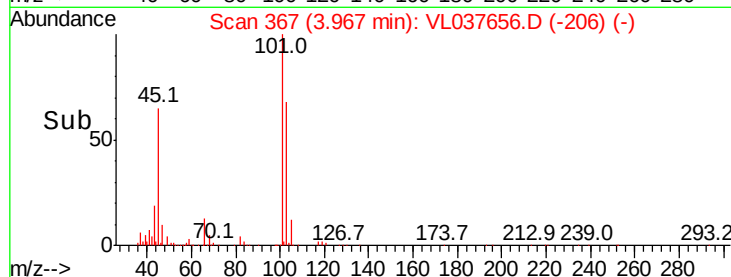
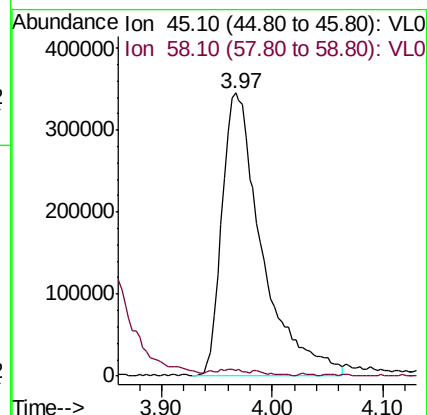
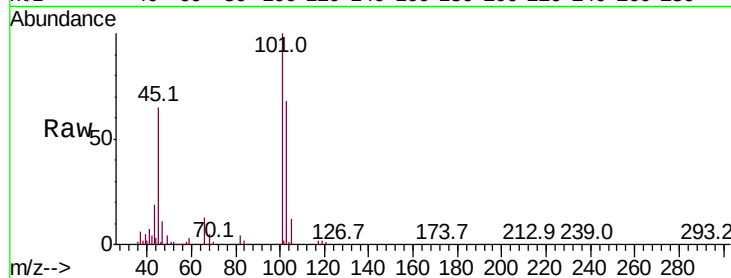
ClientSampleId :

Tot Ion: 45 Resp: 868120

Ion Ratio Lower Upper

45 100

58 2.4 2.9 4.3#



#20

Methylene Chloride

Concen: 8.155 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Tgt Ion: 84 Resp: 645810

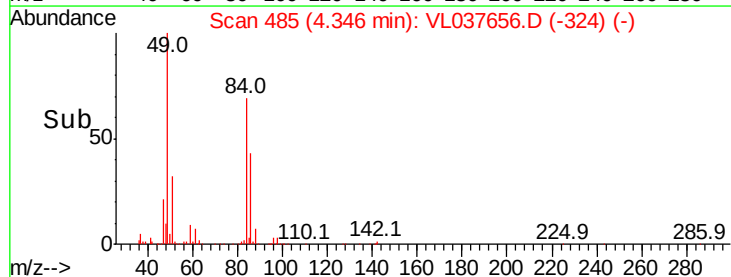
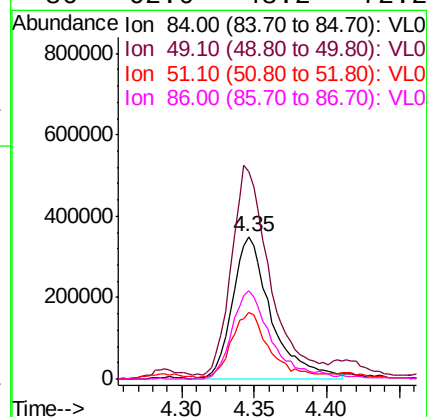
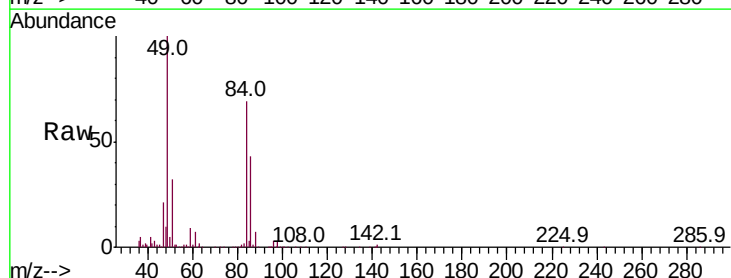
Ion Ratio Lower Upper

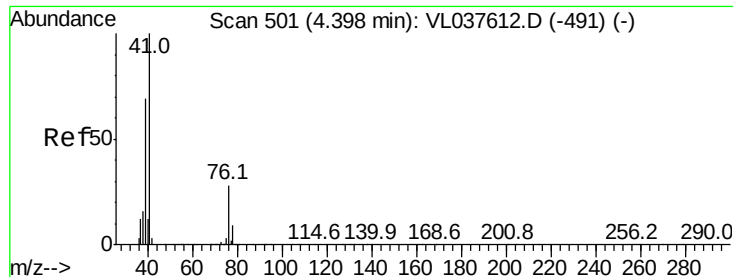
84 100

49 143.5 120.0 180.0

51 45.3 38.0 57.0

86 62.0 48.2 72.2

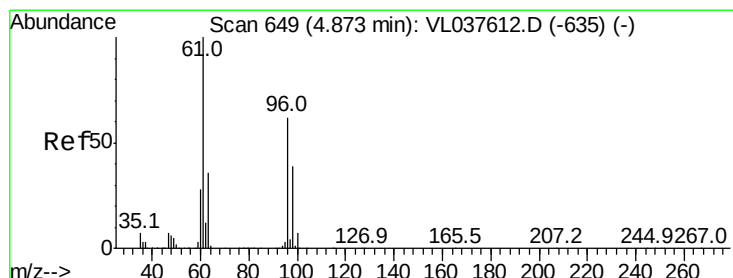
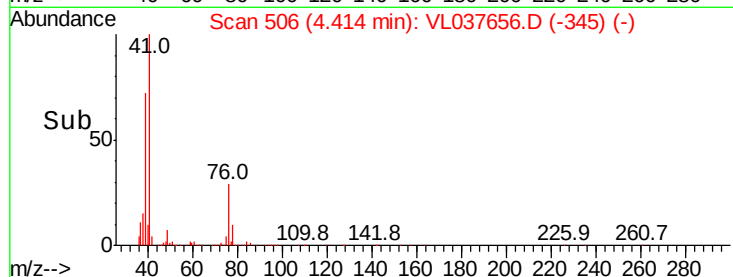
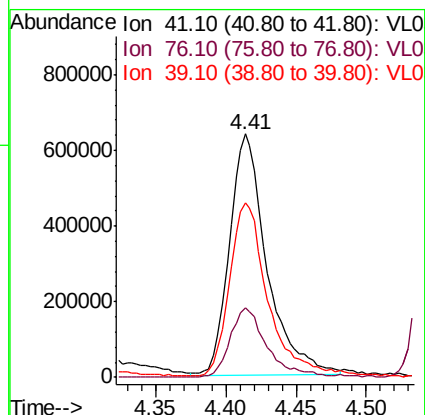
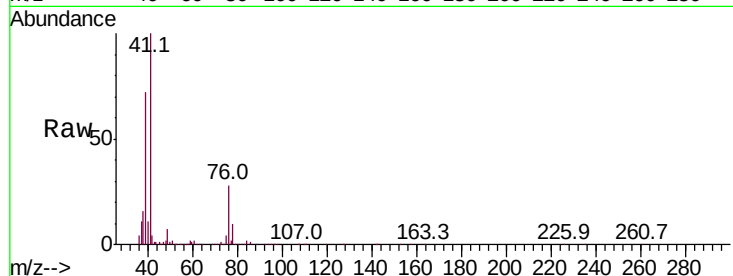




#21  
Allvl Chloride  
Concen: 9.541 ppbv  
RT: 4.41 min Scan# 506  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

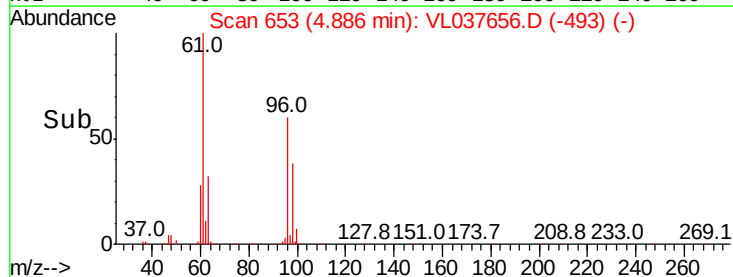
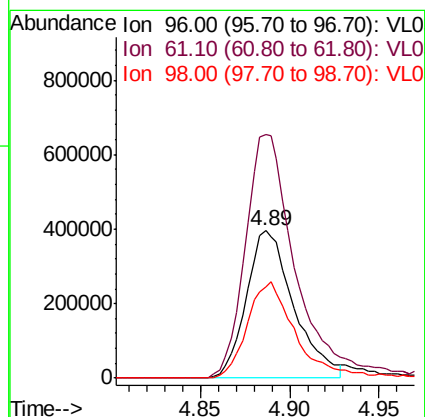
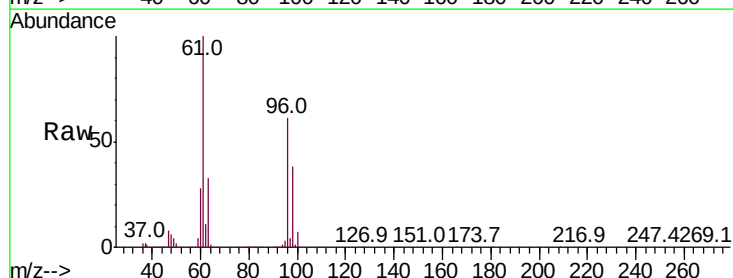
Instrument :  
MSVOA\_L  
ClientSampleId :

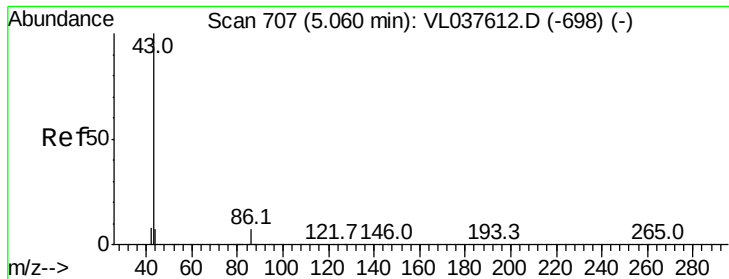
Tot Ion: 41 Resp: 1182336  
Ion Ratio Lower Upper  
41 100  
76 29.0 23.1 34.7  
39 74.9 61.0 91.6



#22  
trans-1,2-Dichloroethene  
Concen: 9.154 ppbv  
RT: 4.89 min Scan# 653  
Delta R.T. 0.01 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion: 96 Resp: 734546  
Ion Ratio Lower Upper  
96 100  
61 165.1 129.2 193.8  
98 62.1 50.4 75.6





#23

Vinyl Acetate

Concen: 8.021 ppbv

RT: 5.08 min Scan# 712

Delta R.T. 0.02 min

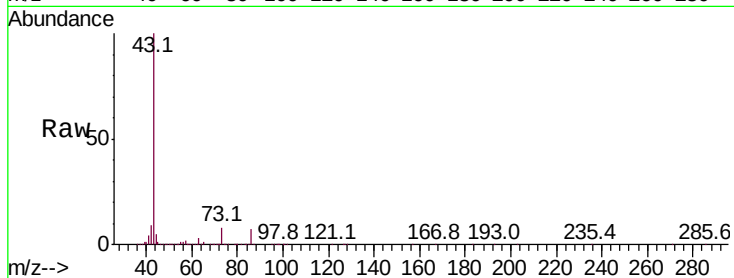
Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

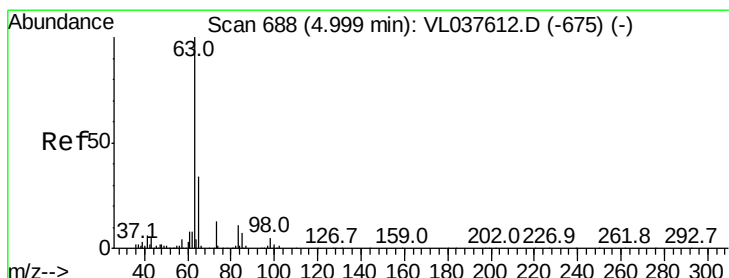
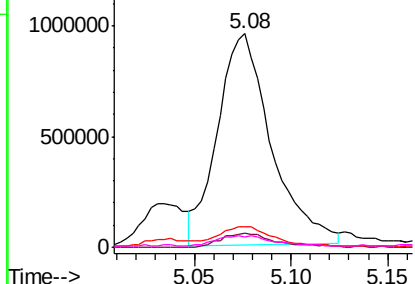
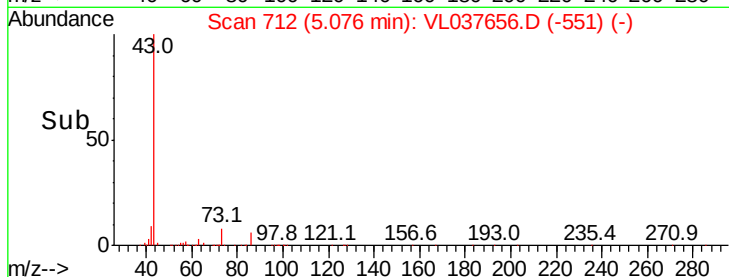
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 43 Resp: 1841157

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.8   | 5.0   | 7.6   |
| 42  | 9.3   | 7.5   | 11.3  |
| 44  | 4.7   | 4.7   | 7.1#  |



Abundance Ion 43.10 (42.80 to 43.80): VL0  
1500000 Ion 86.10 (85.80 to 86.80): VL0  
Ion 42.10 (41.80 to 42.80): VL0  
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.191 ppbv

RT: 5.01 min Scan# 693

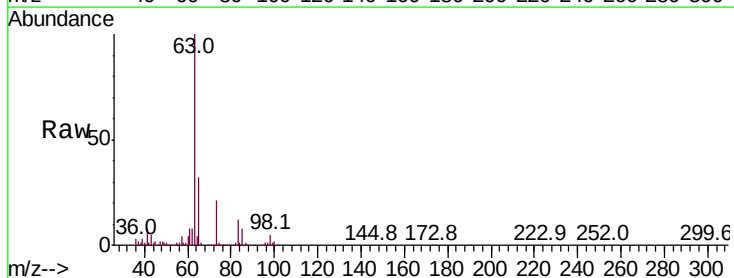
Delta R.T. 0.02 min

Lab File: VL037656.D

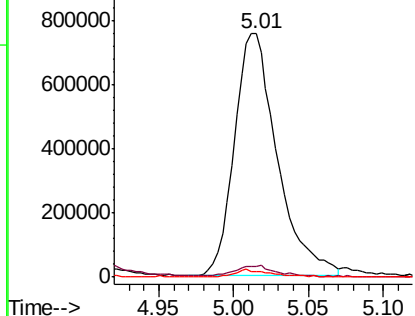
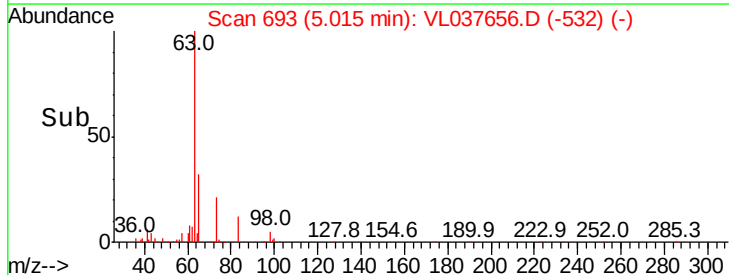
Acq: 23 Sep 2021 11:02

Tgt Ion: 63 Resp: 1511359

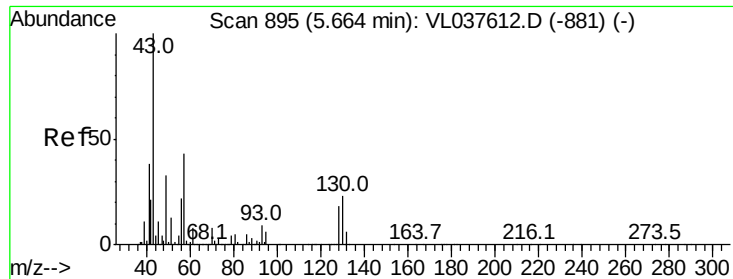
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.2   | 2.4   | 7.2   |
| 100 | 2.3   | 1.1   | 3.5   |



Abundance Ion 63.10 (62.80 to 63.80): VL0  
1000000 Ion 98.00 (97.70 to 98.70): VL0  
Ion 100.00 (99.70 to 100.70): VL0





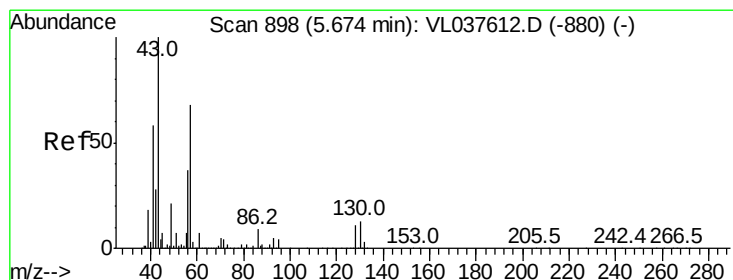
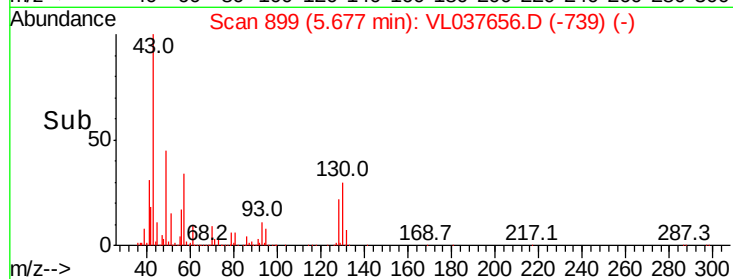
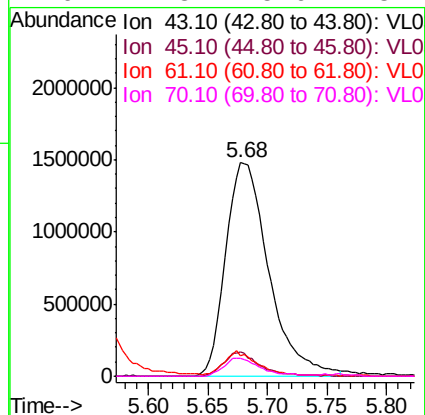
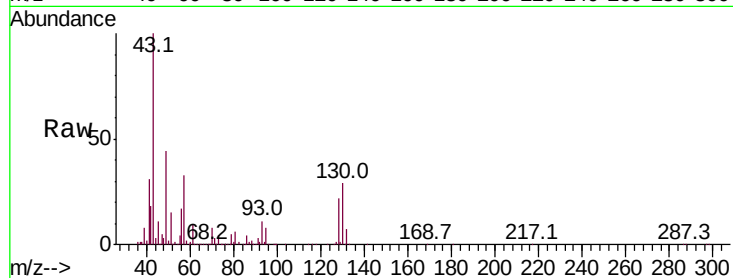


#25  
Ethyl Acetate  
Concen: 9.227 ppbv  
RT: 5.68 min Scan# 899  
Delta R.T. 0.01 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 43 Resp: 3706909

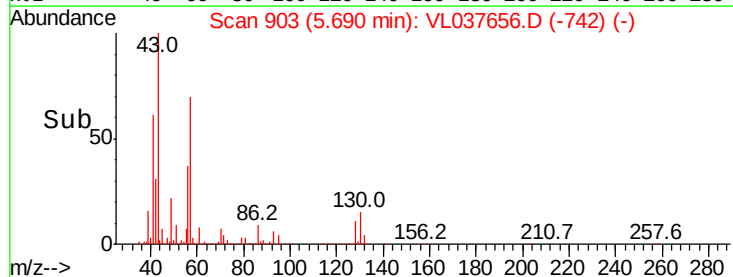
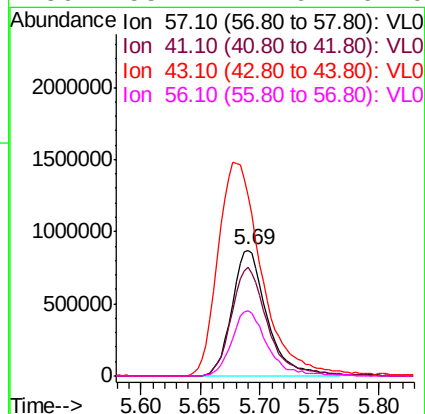
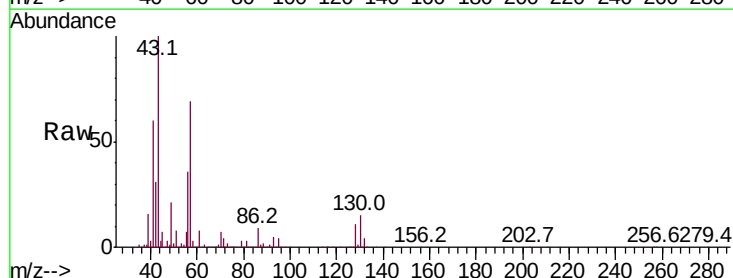
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 9.8   | 8.0   | 12.0  |
| 61  | 10.0  | 7.5   | 11.3  |
| 70  | 7.3   | 5.6   | 8.4   |

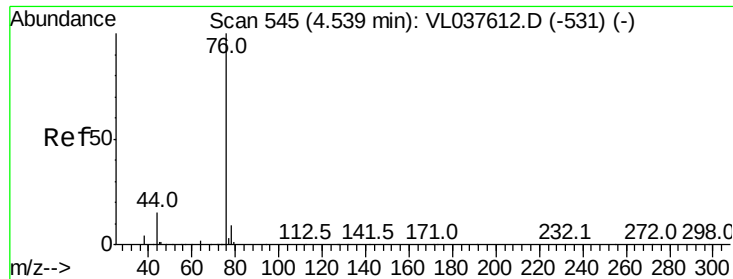


#26  
Hexane  
Concen: 9.314 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion: 57 Resp: 1777476

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 89.9  | 70.9  | 106.3 |
| 43  | 212.6 | 170.4 | 255.6 |
| 56  | 53.2  | 42.6  | 64.0  |





#27

Carbon Disulfide

Concen: 10.453 ppbv

RT: 4.55 min Scan# 549

Delta R.T. 0.01 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

ClientSampleId :

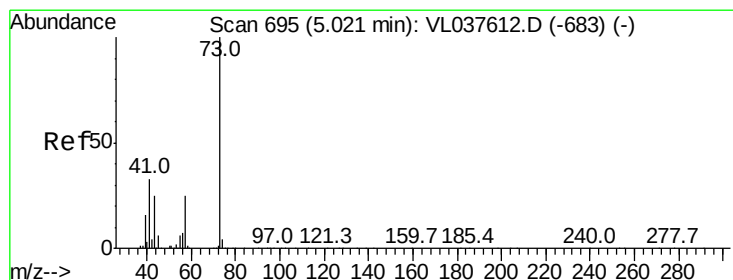
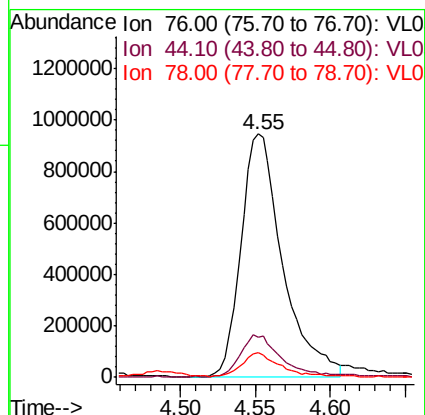
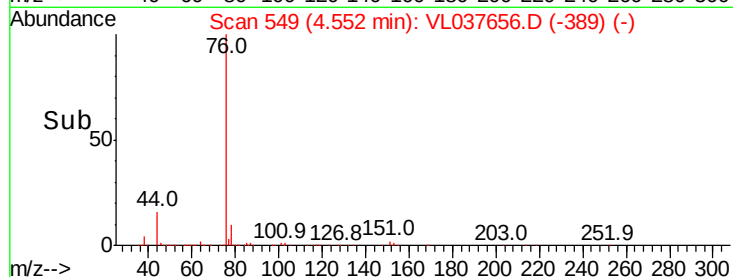
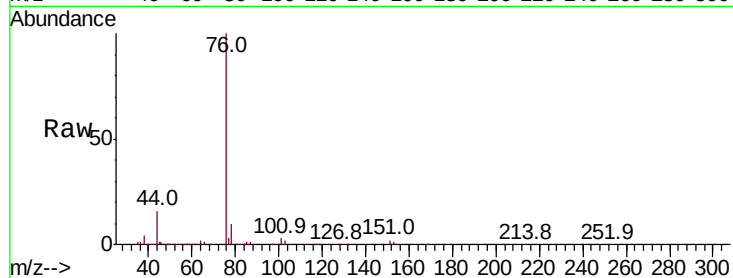
Tot Ion: 76 Resp: 1824910

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 18.3  | 14.2  | 21.2  |
| 78  | 10.0  | 7.4   | 11.0  |

76 100

44 18.3 14.2 21.2

78 10.0 7.4 11.0



#28

Methyl tert-Butyl Ether

Concen: 9.430 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.02 min

Lab File: VL037656.D

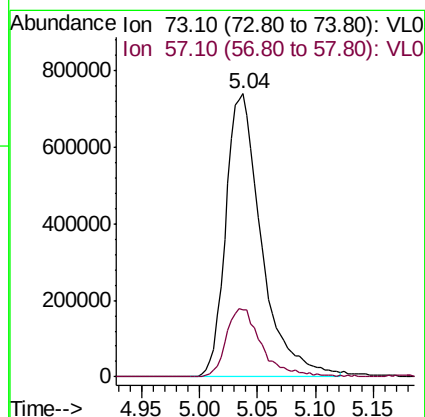
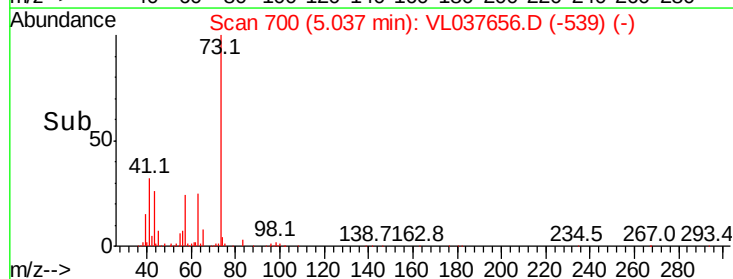
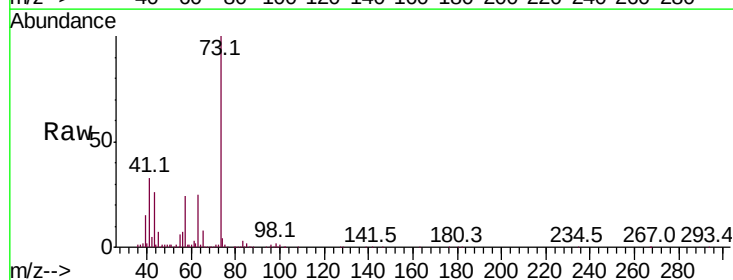
Acq: 23 Sep 2021 11:02

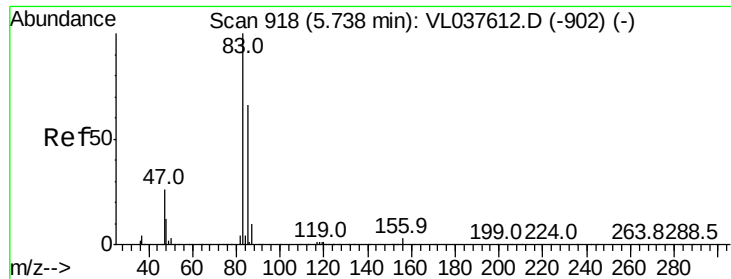
Tgt Ion: 73 Resp: 1585129

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 24.4  | 20.1  | 30.1  |

73 100

57 24.4 20.1 30.1

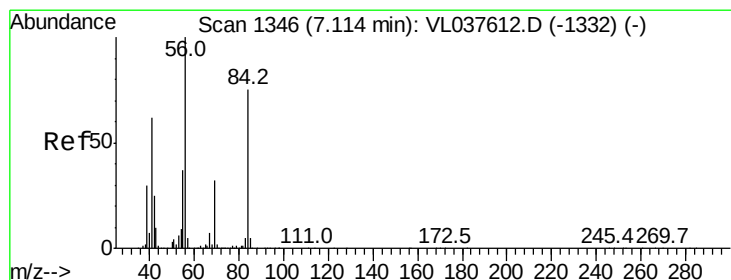
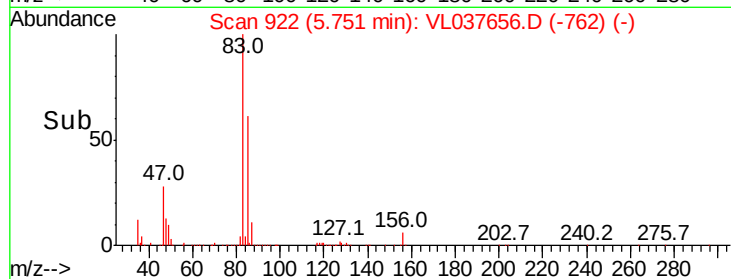
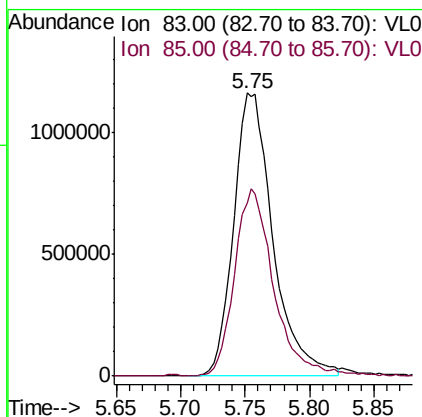
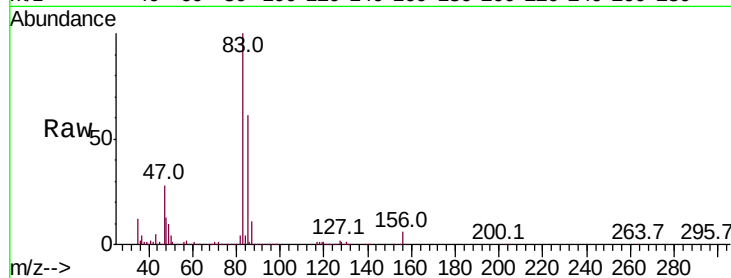




#29  
Chloroform  
Concen: 8.882 ppbv  
RT: 5.75 min Scan# 922  
Delta R.T. 0.01 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

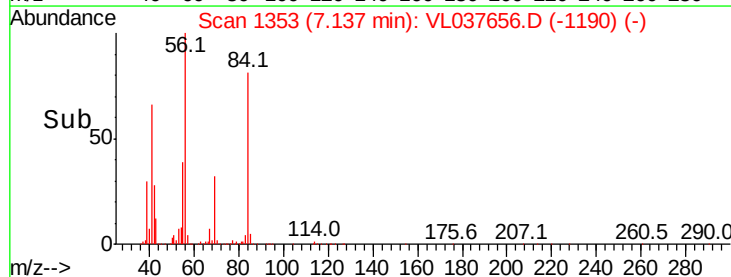
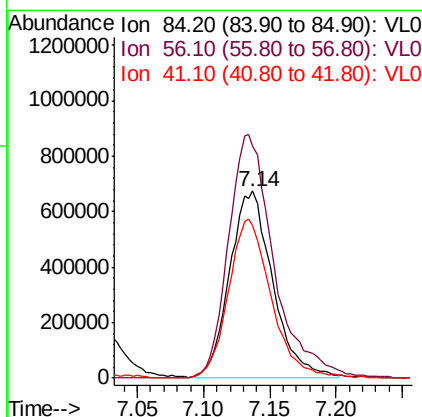
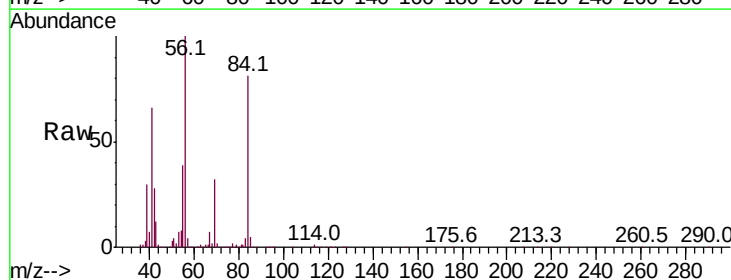
Instrument :  
MSVOA\_L  
ClientSampleId :

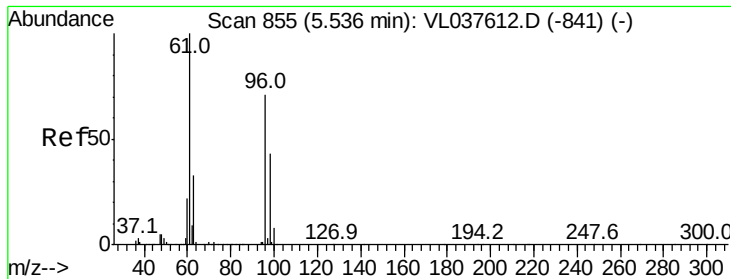
Tot Ion: 83 Resp: 2475323  
Ion Ratio Lower Upper  
83 100  
85 61.2 52.6 79.0



#30  
Cyclohexane  
Concen: 9.184 ppbv  
RT: 7.14 min Scan# 1353  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion: 84 Resp: 1498961  
Ion Ratio Lower Upper  
84 100  
56 140.6 113.6 170.4  
41 86.1 67.9 101.9





#31

cis-1,2-Dichloroethene

Concen: 9.364 ppbv

RT: 5.55 min Scan# 860

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

ClientSampleId :

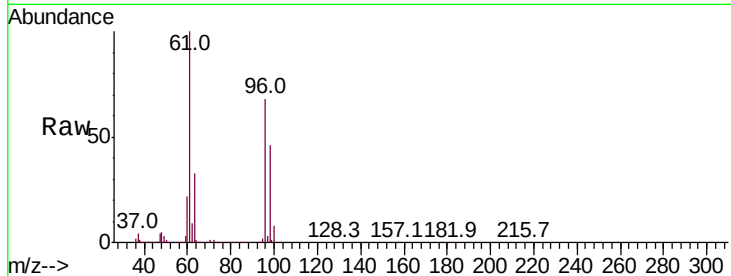
Tot Ion: 61 Resp: 1622375

Ion Ratio Lower Upper

61 100

96 68.3 56.7 85.1

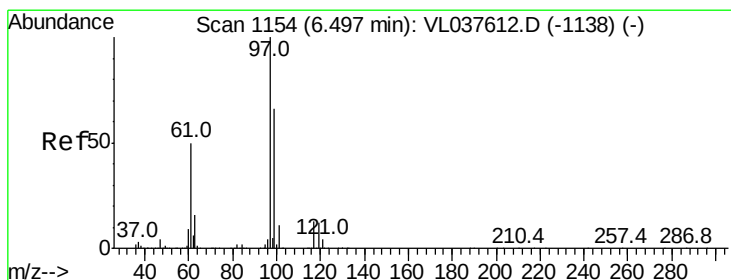
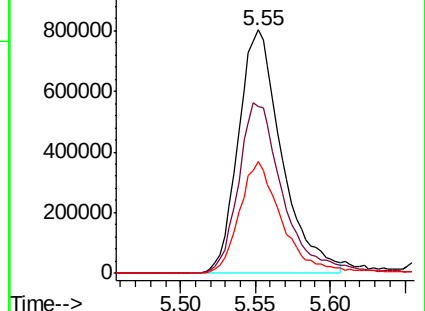
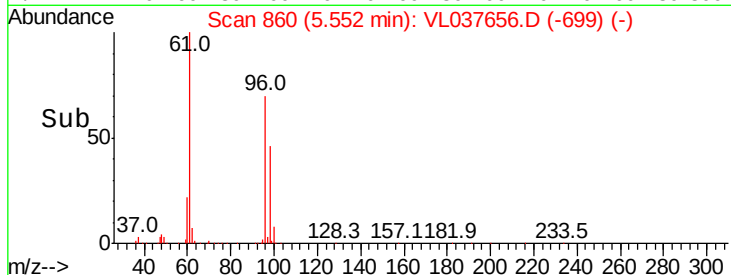
98 46.2 34.6 52.0



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: 9.355 ppbv

RT: 6.51 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

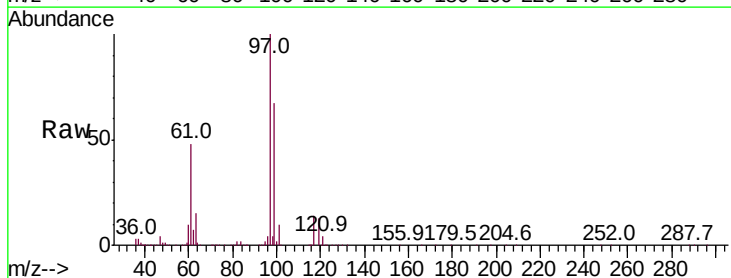
Tgt Ion: 97 Resp: 2427086

Ion Ratio Lower Upper

97 100

99 65.2 52.3 78.5

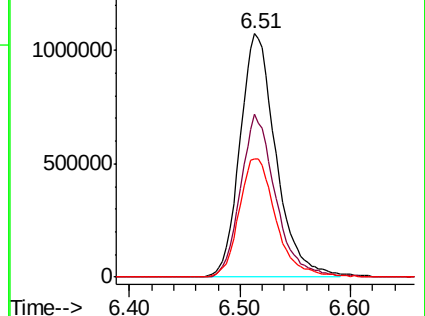
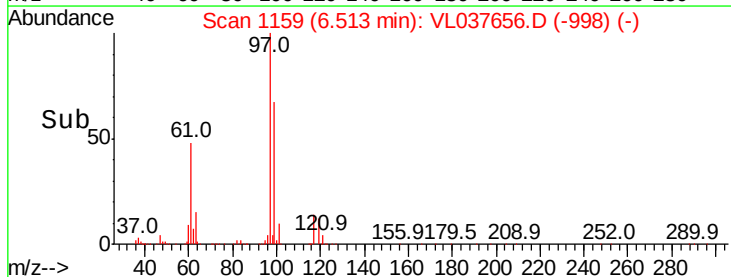
61 49.7 39.5 59.3

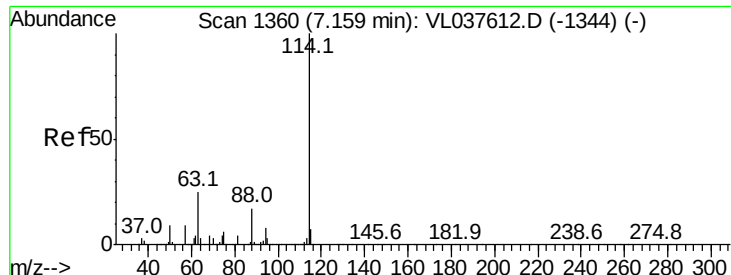


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

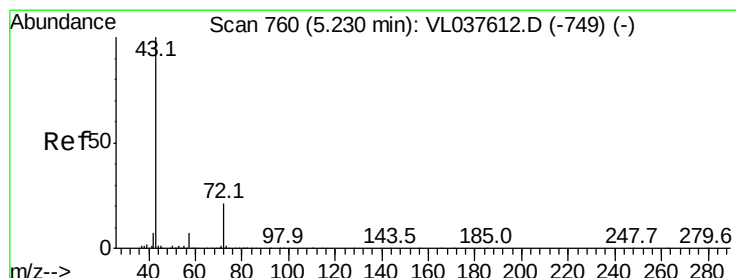
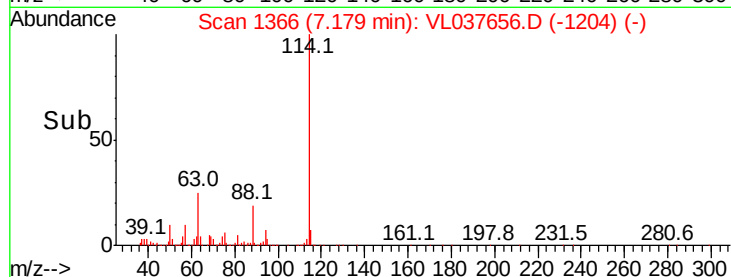
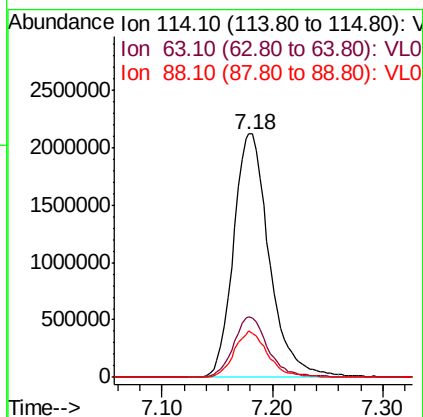
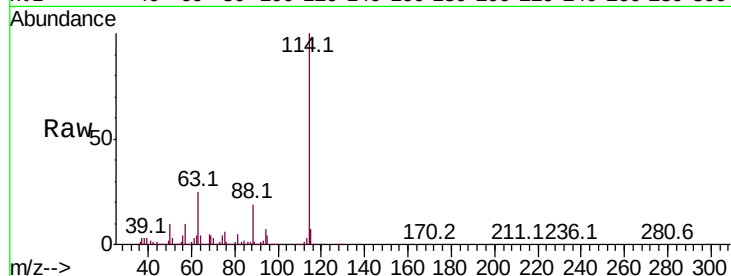




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1366  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

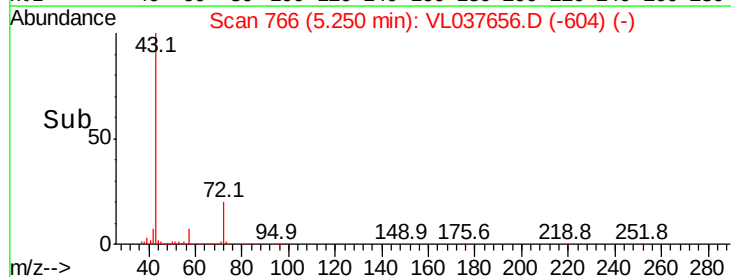
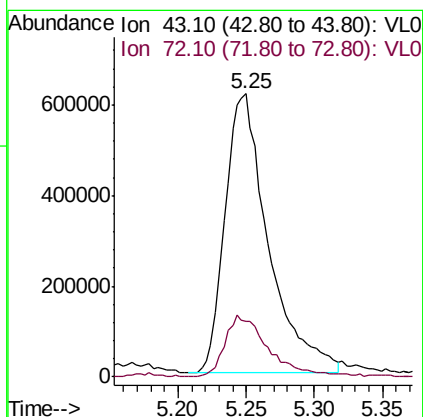
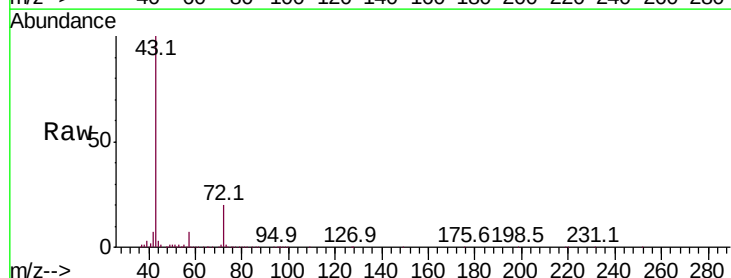
Instrument :  
 MSVOA\_L  
 ClientSampled :

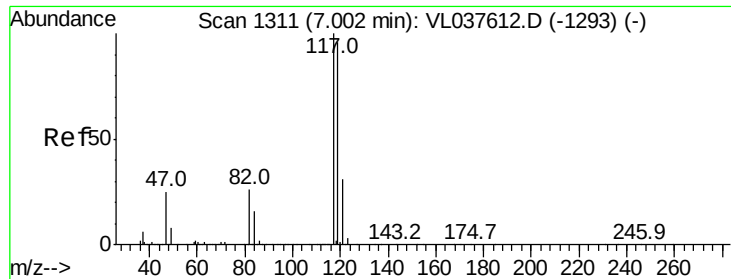
Tot Ion:114 Resp: 4751537  
 Ion Ratio Lower Upper  
 114 100  
 63 24.3 19.6 29.4  
 88 18.1 14.2 21.4



#34  
 2-Butanone  
 Concen: 7.047 ppbv  
 RT: 5.25 min Scan# 766  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Tgt Ion: 43 Resp: 1360789  
 Ion Ratio Lower Upper  
 43 100  
 72 22.4 18.4 27.6

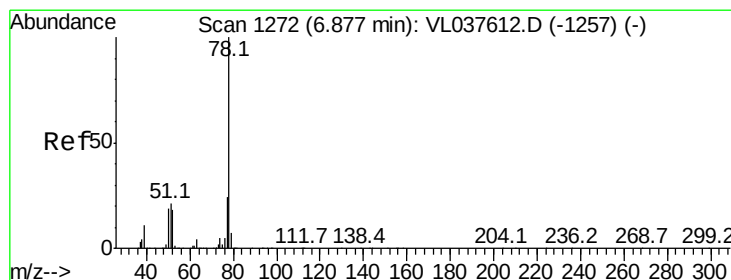
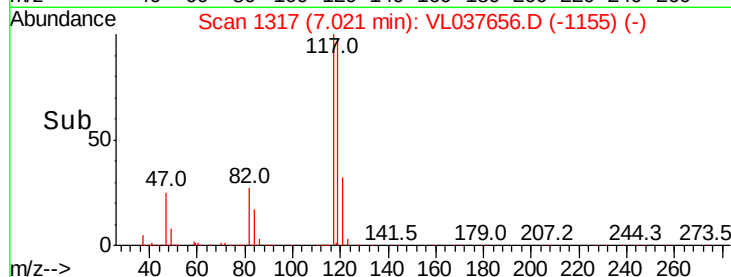
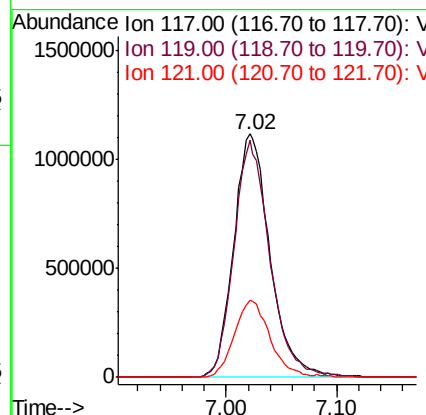
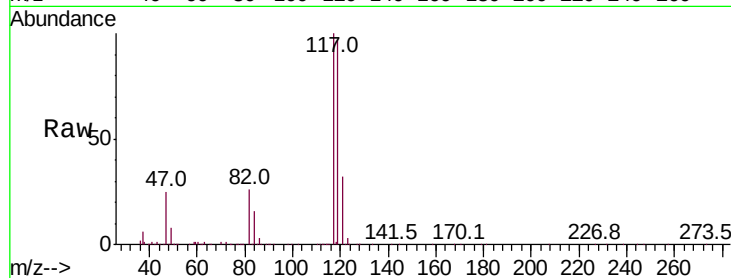




#35  
Carbon Tetrachloride  
Concen: 9.481 ppbv  
RT: 7.02 min Scan# 1317  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

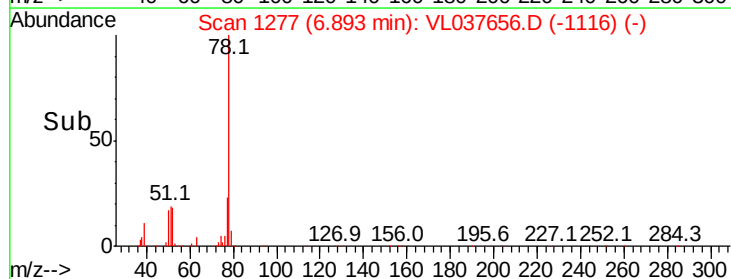
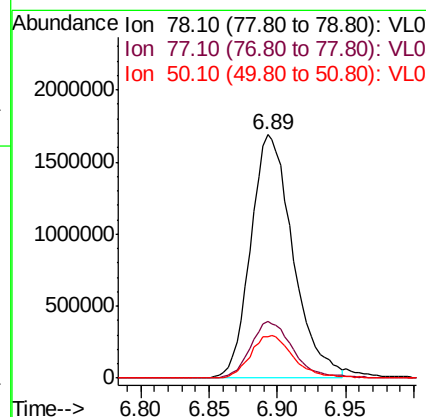
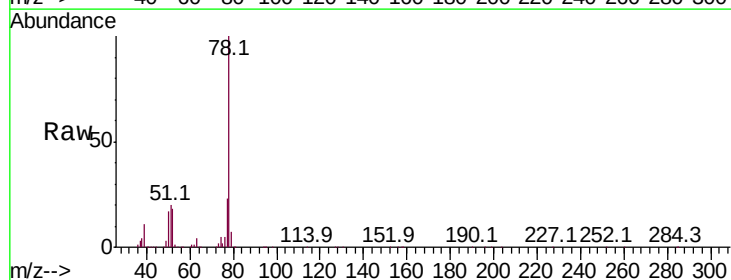
Instrument :  
MSVOA\_L  
ClientSampled :

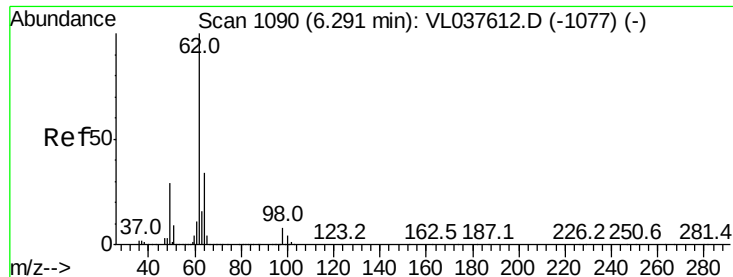
Tot Ion:117 Resp: 2548429  
Ion Ratio Lower Upper  
117 100  
119 97.2 77.0 115.6  
121 31.8 24.5 36.7



#36  
Benzene  
Concen: 9.166 ppbv  
RT: 6.89 min Scan# 1277  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion: 78 Resp: 3631540  
Ion Ratio Lower Upper  
78 100  
77 23.5 19.0 28.4  
50 17.2 14.8 22.2

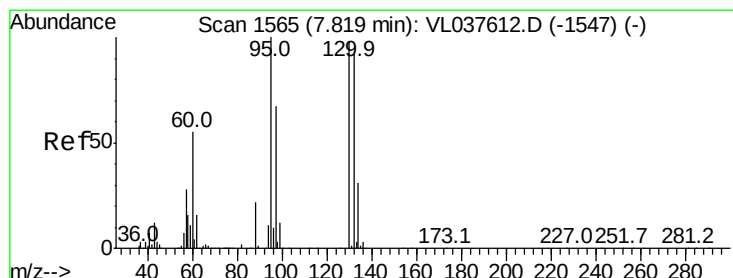
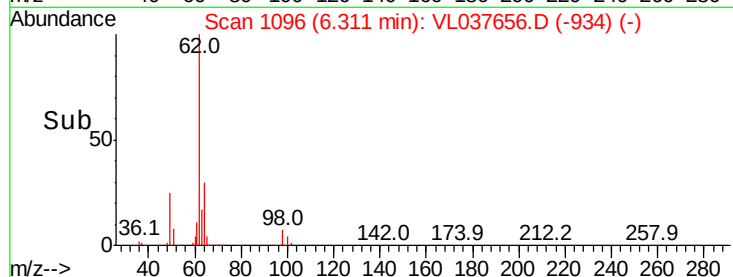
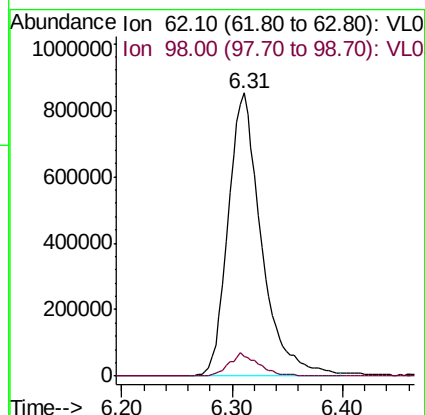
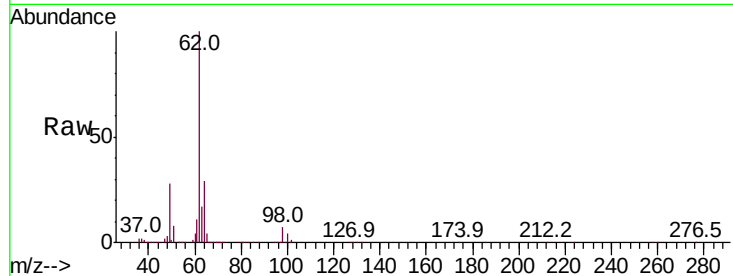




#37  
 1,2-Dichloroethane  
 Concen: 9.137 ppbv  
 RT: 6.31 min Scan# 1096  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

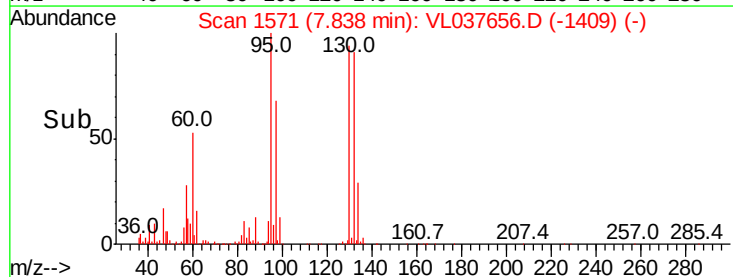
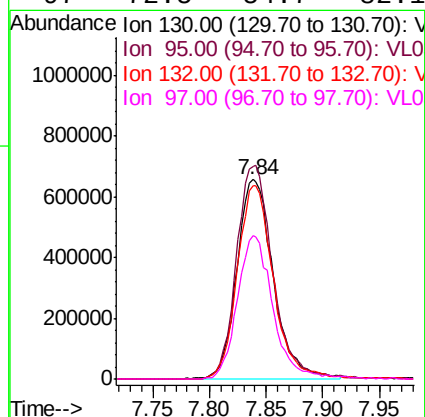
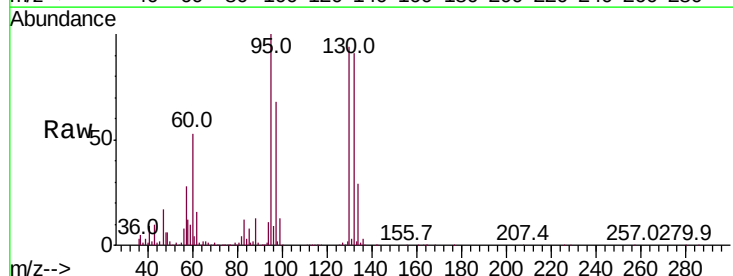
Instrument :  
 MSVOA\_L  
 ClientSampleId :

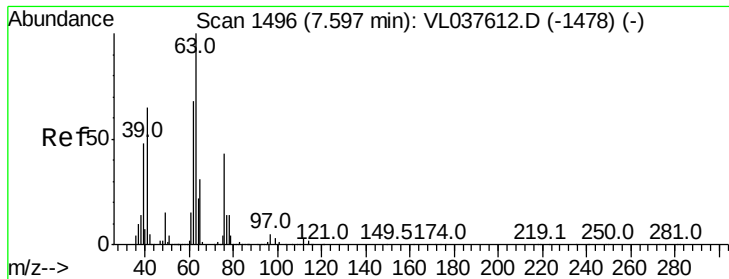
Tot Ion: 62 Resp: 1780490  
 Ion Ratio Lower Upper  
 62 100  
 98 7.2 6.1 9.1



#38  
 Trichloroethene  
 Concen: 8.806 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Tgt Ion: 130 Resp: 1457429  
 Ion Ratio Lower Upper  
 130 100  
 95 106.9 81.8 122.6  
 132 97.1 75.3 112.9  
 97 72.5 54.7 82.1

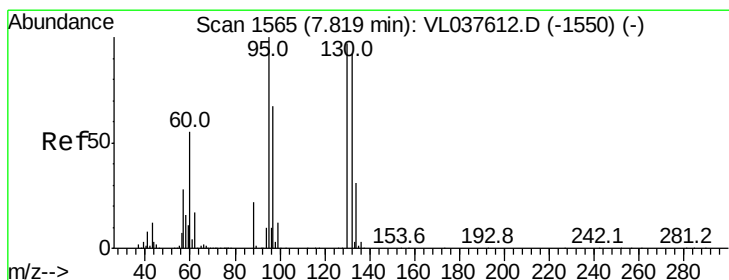
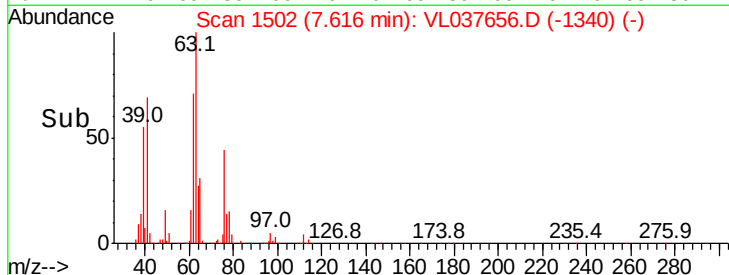
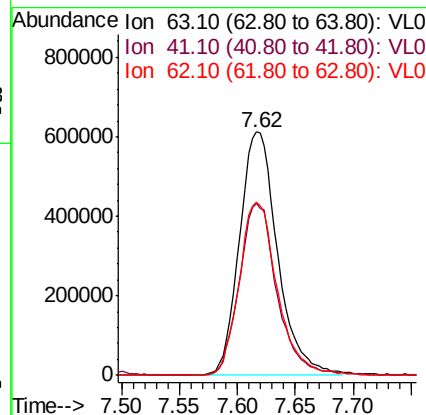
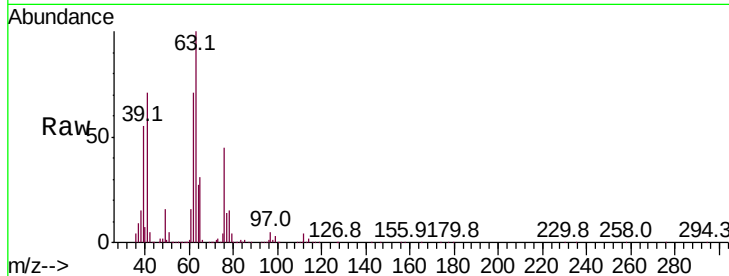




#39  
 1,2-Dichloropropane  
 Concen: 9.177 ppbv  
 RT: 7.62 min Scan# 1502  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

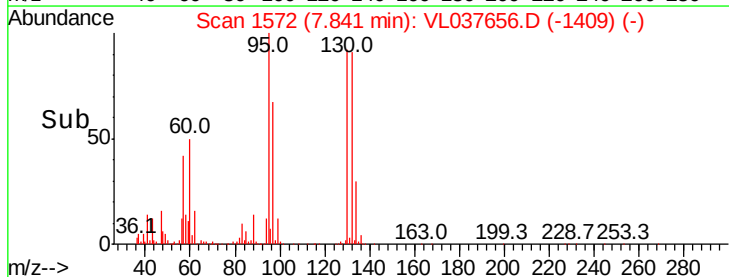
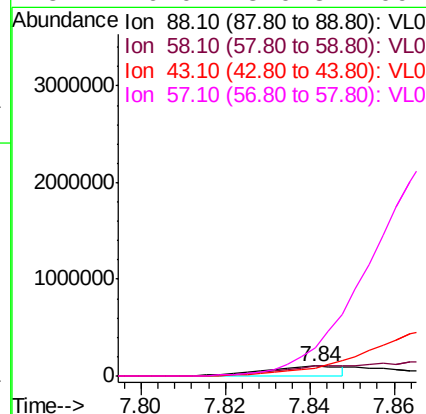
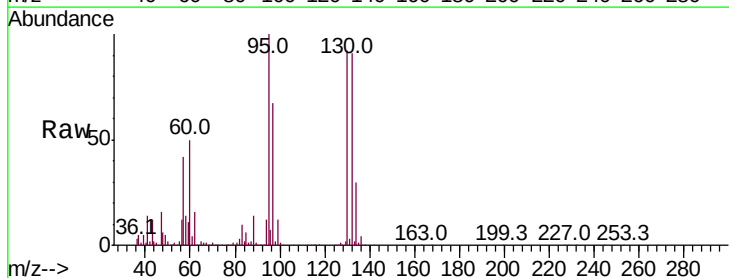
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 63 Resp: 1392664  
 Ion Ratio Lower Upper  
 63 100  
 41 70.5 51.6 77.4  
 62 71.2 54.6 81.8

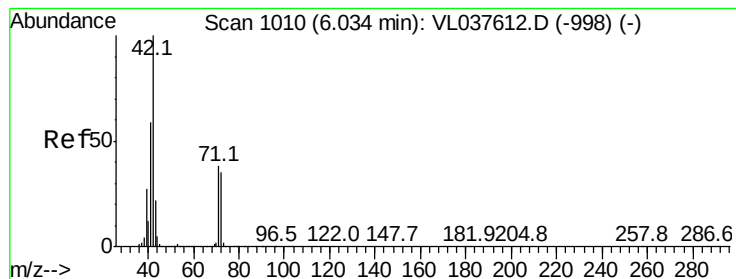


#40  
 1,4-Dioxane  
 Concen: 3.469 ppbv  
 RT: 7.84 min Scan# 1572  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Tgt Ion: 88 Resp: 128051  
 Ion Ratio Lower Upper  
 88 100  
 58 0.0 122.4 183.6#  
 43 0.0 297.4 446.0#  
 57 0.0 1329.8 1994.8#







#41

Tetrahydrofuran

Concen: 9.572 ppbv

RT: 6.05 min Scan# 1016

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :  
MSVOA\_L  
ClientSampleId :

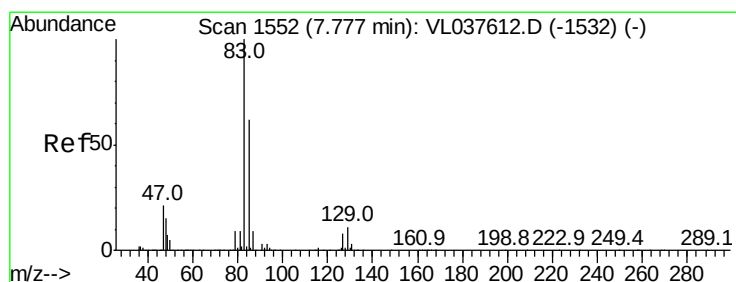
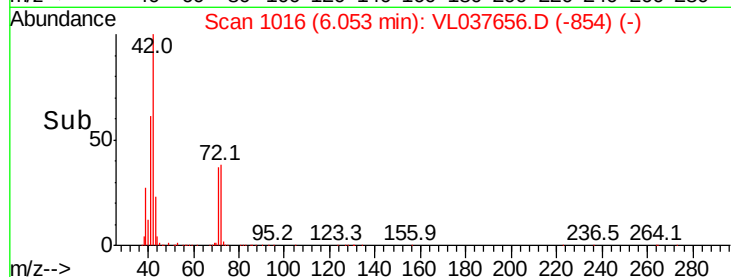
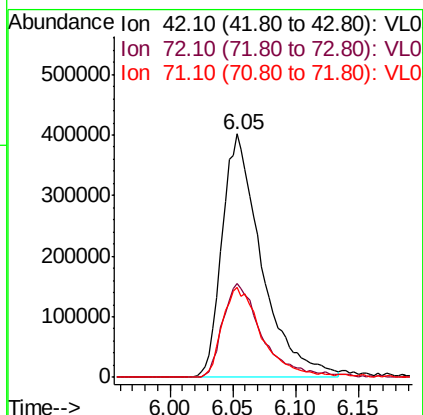
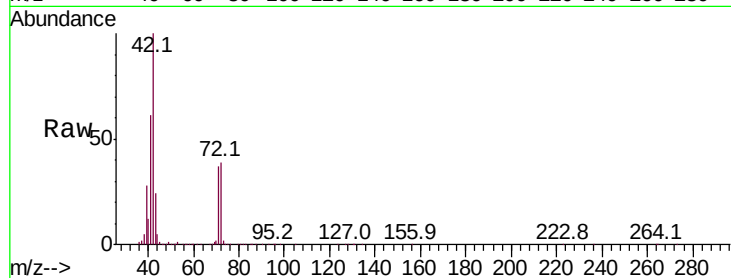
Tot Ion: 42 Resp: 868859

Ion Ratio Lower Upper

42 100

72 39.6 31.4 47.2

71 38.3 30.6 46.0



#42

Bromodichloromethane

Concen: 9.575 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

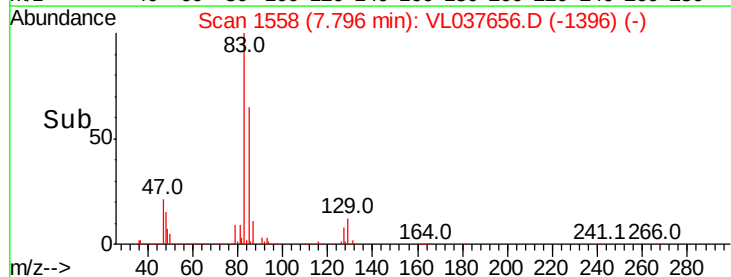
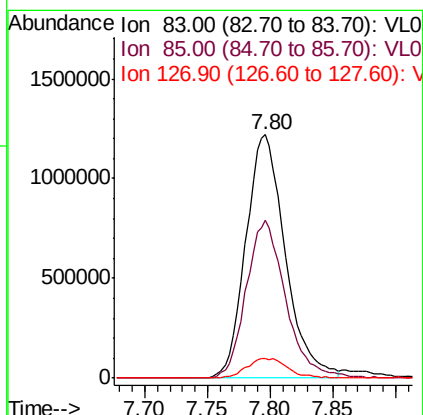
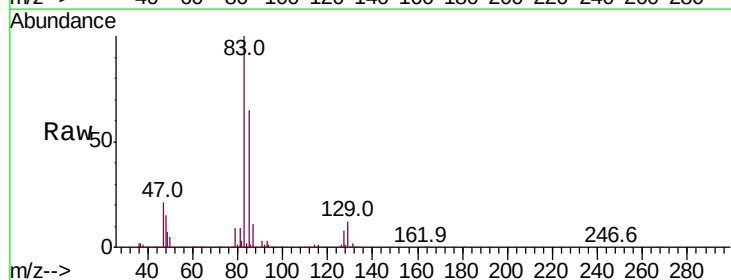
Tgt Ion: 83 Resp: 2674306

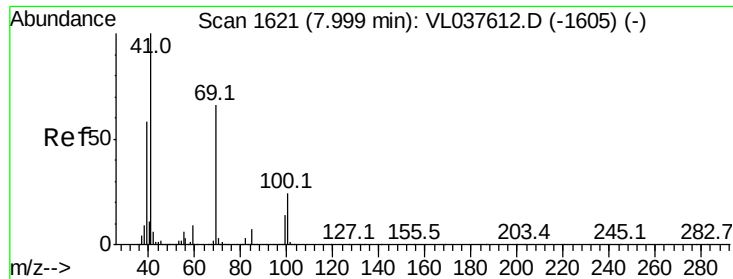
Ion Ratio Lower Upper

83 100

85 65.1 49.8 74.6

127 8.0 6.4 9.6

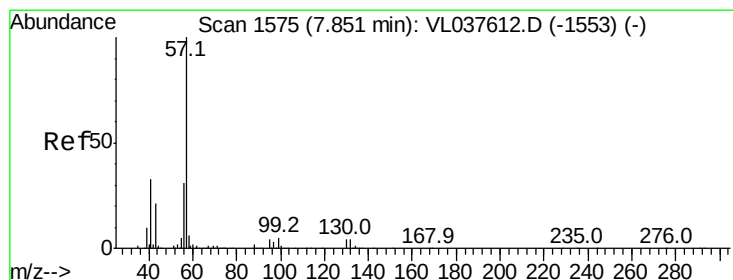
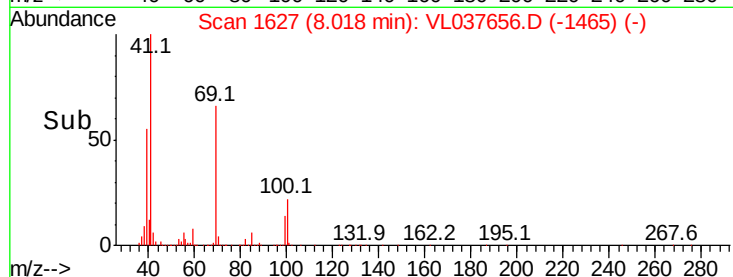
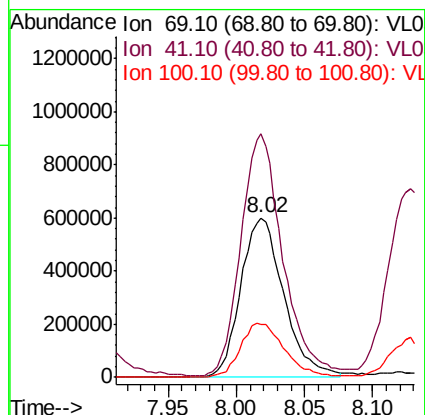
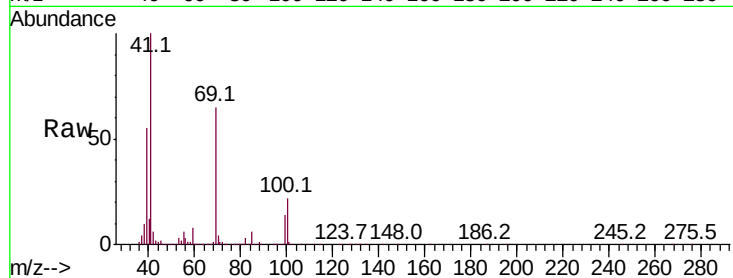




#43  
Methyl Methacrylate  
Concen: 9.976 ppbv  
RT: 8.02 min Scan# 1627  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

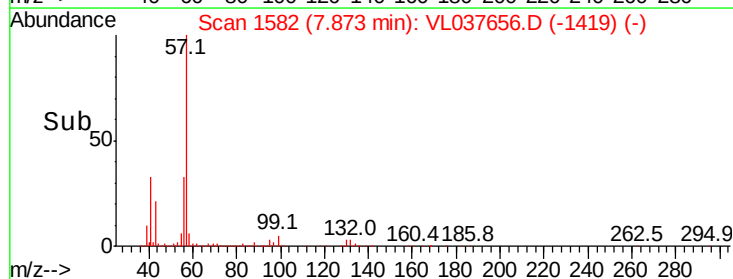
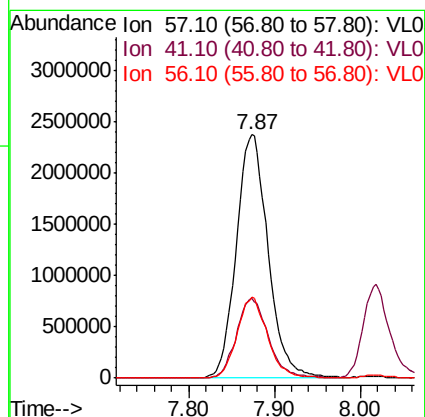
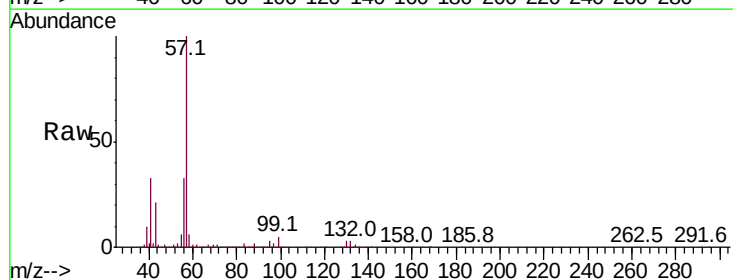
Instrument :  
MSVOA\_L  
ClientSampleId :

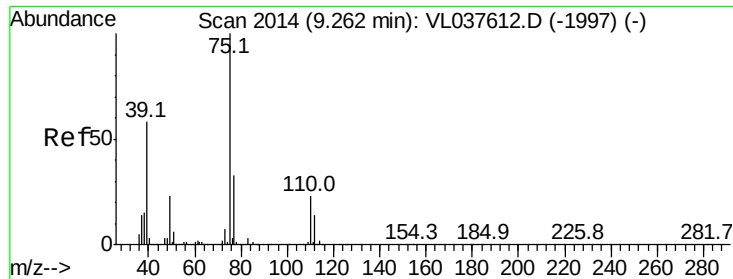
Tot Ion: 69 Resp: 1314969  
Ion Ratio Lower Upper  
69 100  
41 151.2 119.0 178.4  
100 34.7 27.6 41.4



#44  
2,2,4-Trimethylpentane  
Concen: 9.154 ppbv  
RT: 7.87 min Scan# 1582  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion: 57 Resp: 6097518  
Ion Ratio Lower Upper  
57 100  
41 33.1 26.1 39.1  
56 31.8 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 9.606 ppbv

RT: 9.28 min Scan# 2020

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

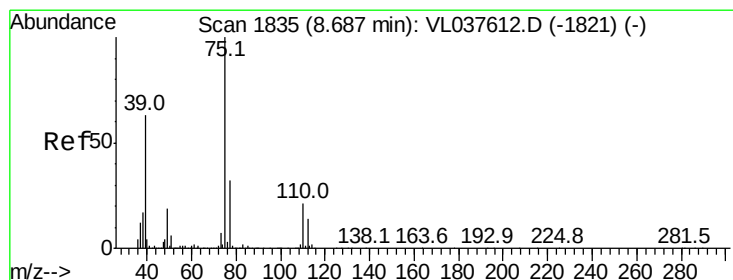
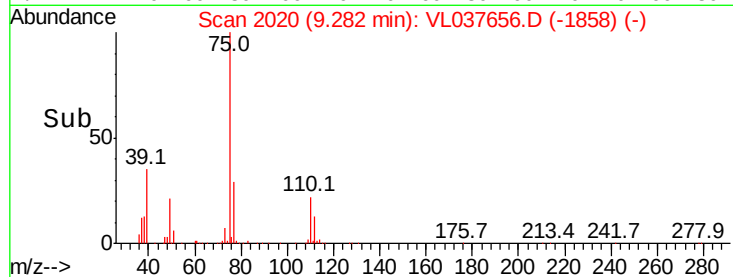
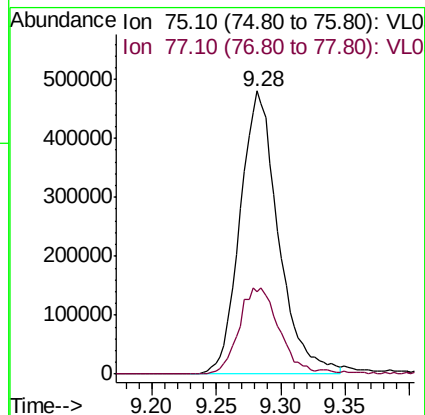
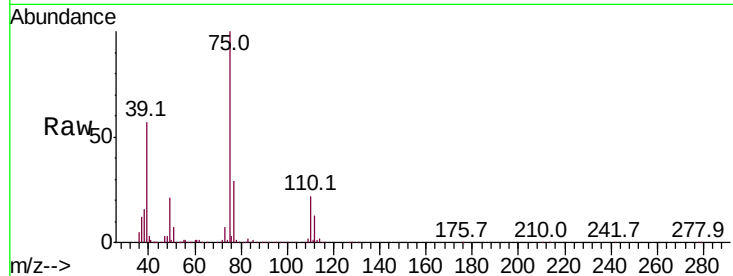
Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 75 Resp: 994592

Ion Ratio Lower Upper

75 100

77 29.0 26.3 39.5



#46

cis-1,3-Dichloropropene

Concen: 9.324 ppbv

RT: 8.71 min Scan# 1841

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

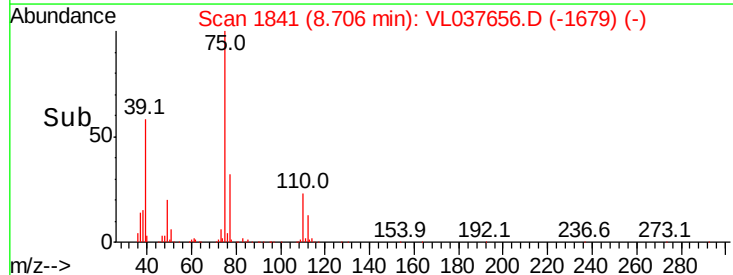
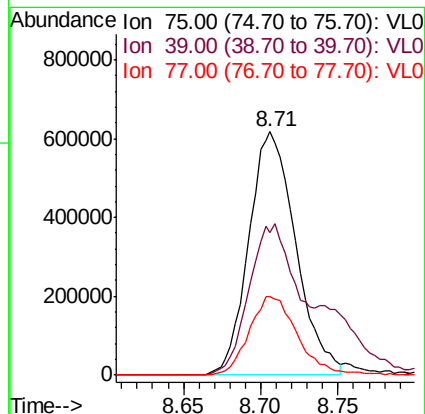
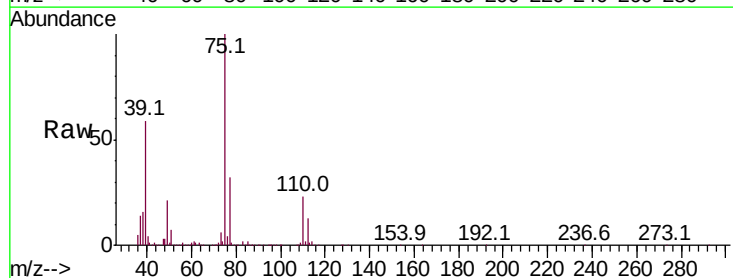
Tgt Ion: 75 Resp: 1304046

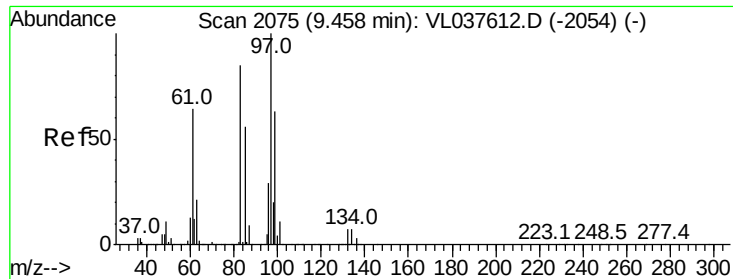
Ion Ratio Lower Upper

75 100

39 58.7 50.2 75.4

77 32.2 25.2 37.8



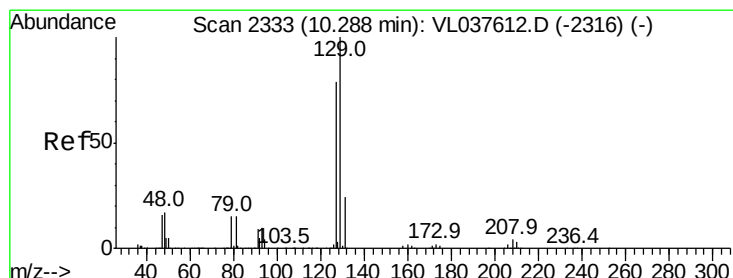
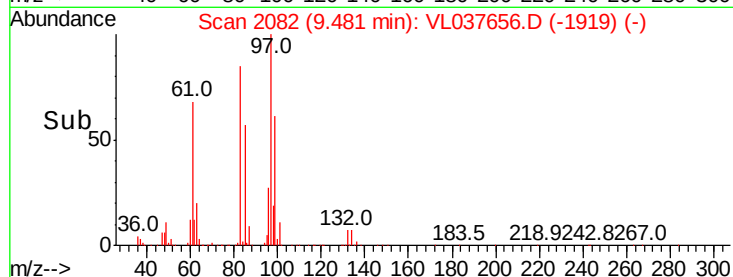
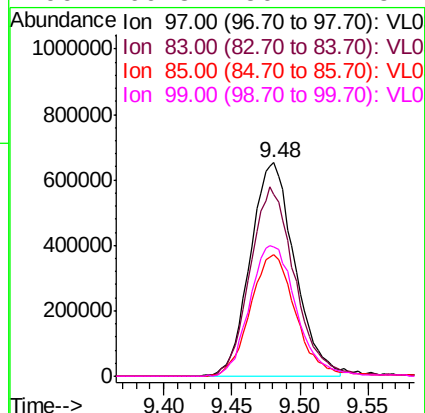
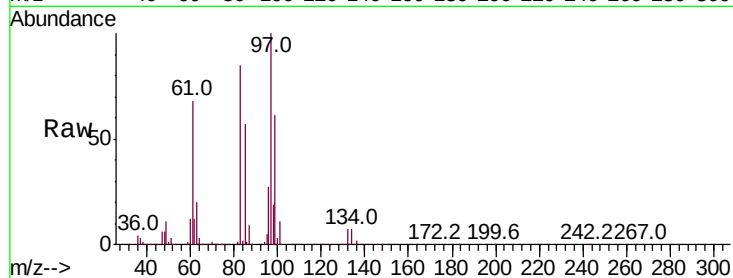


#47  
 1,1,2-Trichloroethane  
 Concen: 8.794 ppbv  
 RT: 9.48 min Scan# 2082  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Instrument :  
 MSVOA\_L  
 ClientSampled :

Tot Ion: 97 Resp: 1476280  

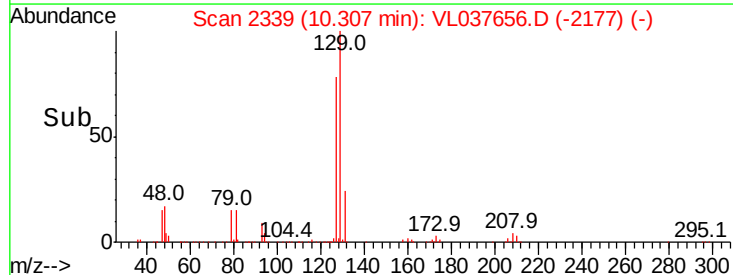
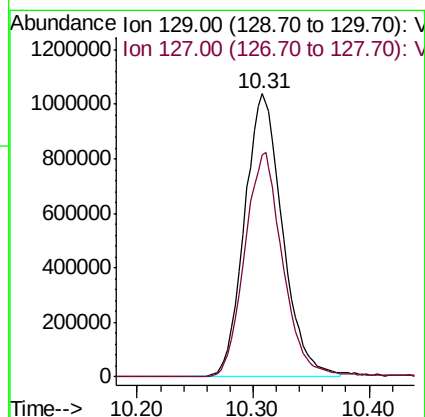
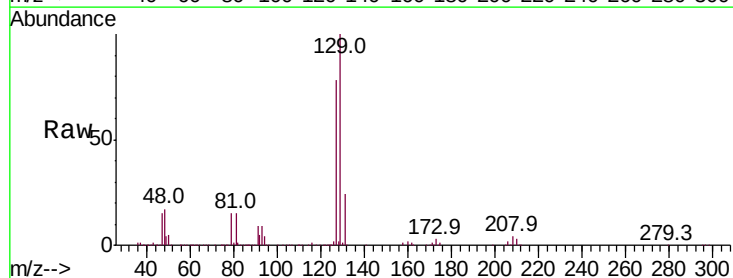
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 84.9  | 67.9  | 101.9 |
| 85  | 57.2  | 44.8  | 67.2  |
| 99  | 60.8  | 50.1  | 75.1  |

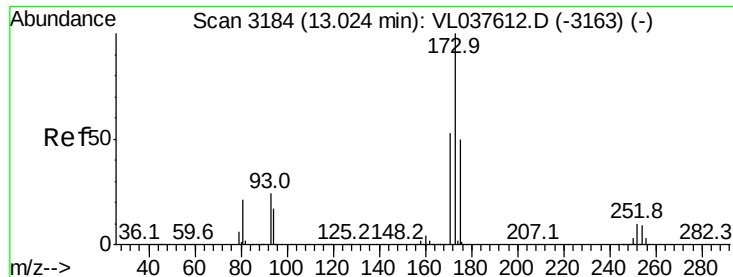


#48  
 Dibromochloromethane  
 Concen: 10.108 ppbv  
 RT: 10.31 min Scan# 2339  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Tgt Ion: 129 Resp: 2367194  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 80.3  | 39.3  | 117.8 |





#49

Bromoform

Concen: 10.061 ppbv

RT: 13.05 min Scan# 3191

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

ClientSampleId :

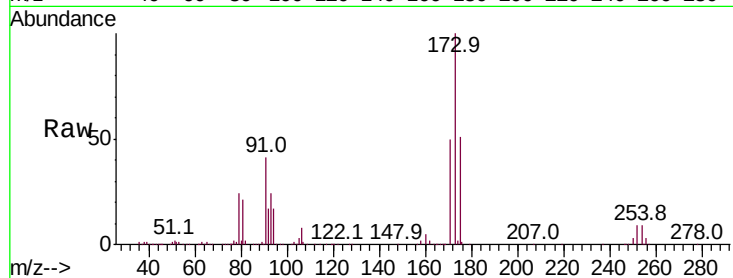
Tot Ion:173 Resp: 1885889

Ion Ratio Lower Upper

173 100

175 51.7 39.8 59.8

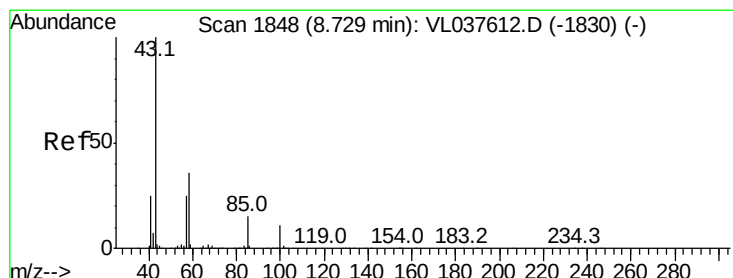
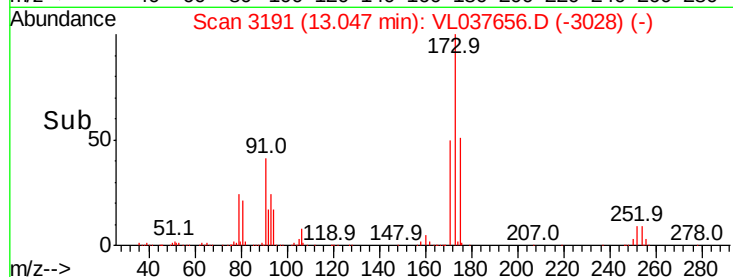
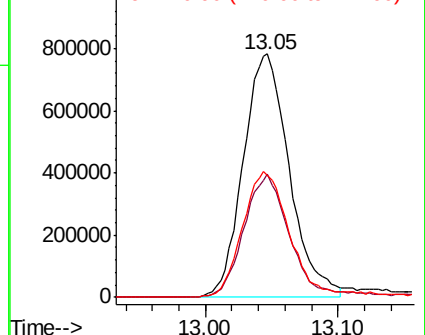
171 55.8 42.2 63.4



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.706 ppbv

RT: 8.74 min Scan# 1853

Delta R.T. 0.02 min

Lab File: VL037656.D

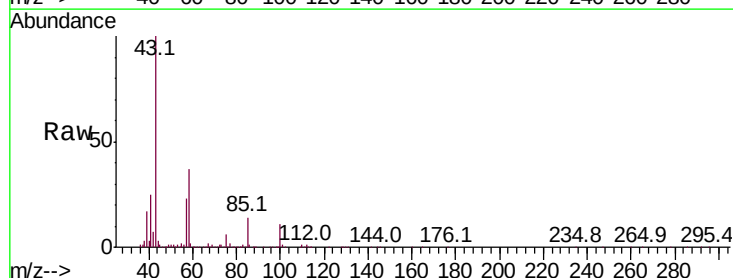
Acq: 23 Sep 2021 11:02

Tgt Ion: 43 Resp: 2378728

Ion Ratio Lower Upper

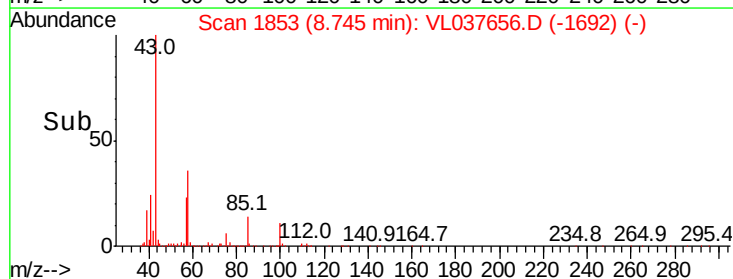
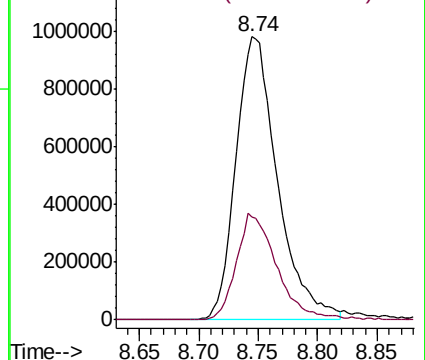
43 100

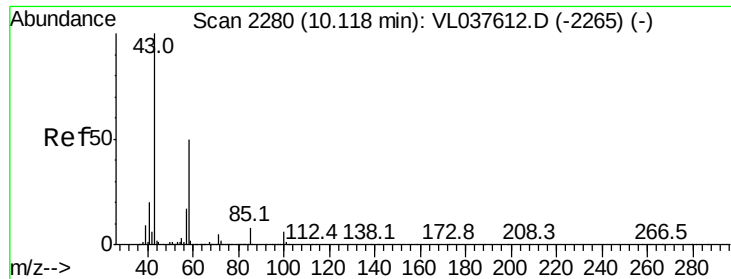
58 37.2 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.047 ppbv

RT: 10.14 min Scan# 2287

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

ClientSampled :

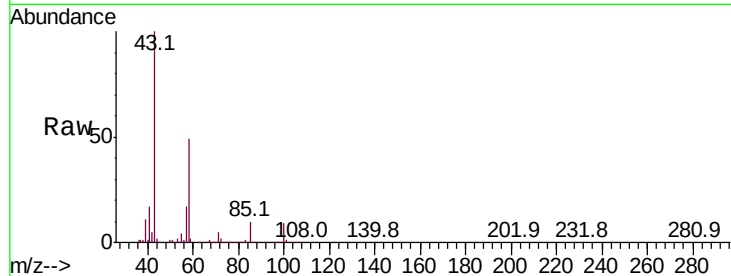
Tot Ion: 43 Resp: 1086411

Ion Ratio Lower Upper

43 100

58 50.9 39.3 58.9

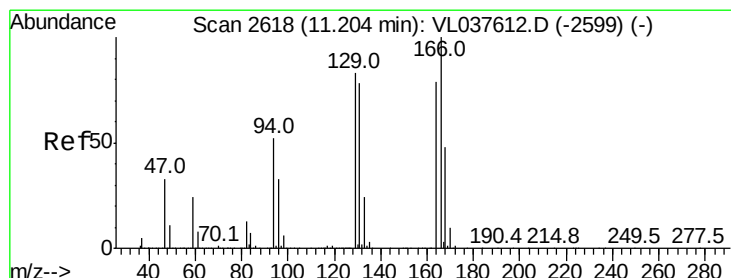
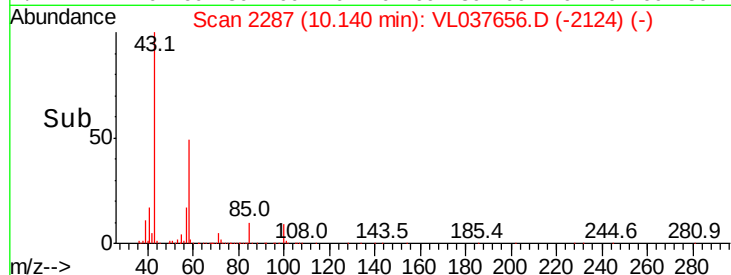
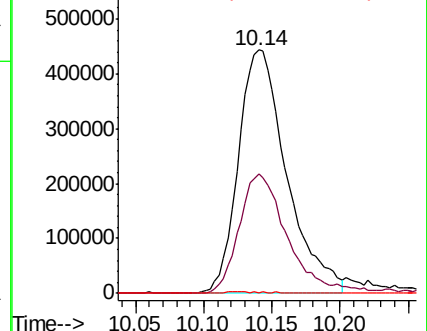
98 0.6 0.4 0.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 8.778 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. 0.03 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Tgt Ion: 164 Resp: 1335188

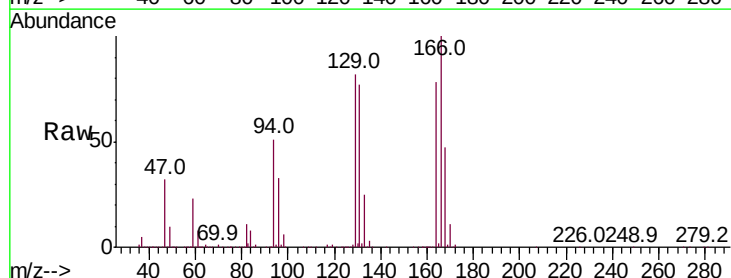
Ion Ratio Lower Upper

164 100

166 128.1 101.2 151.8

129 105.2 84.0 126.0

131 98.9 78.8 118.2

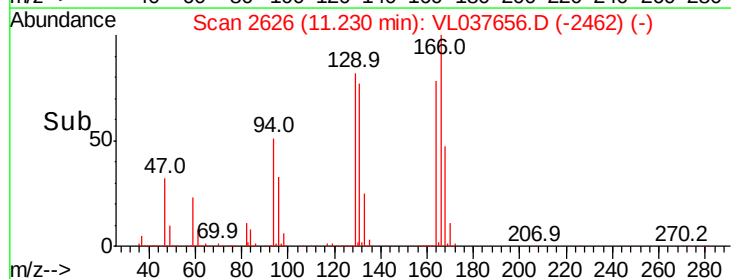
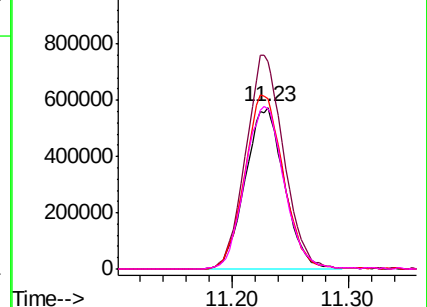


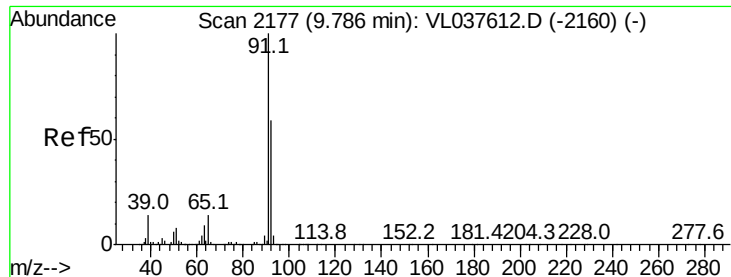
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.744 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

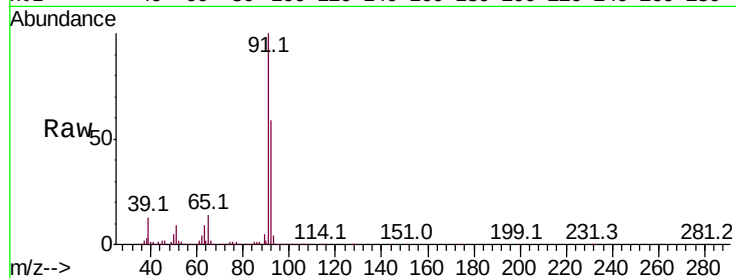
ClientSampleId :

Tot Ion: 91 Resp: 4291120

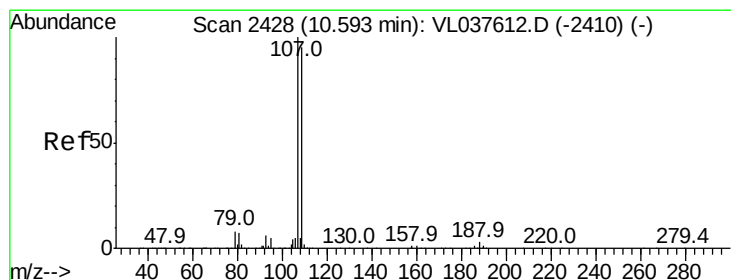
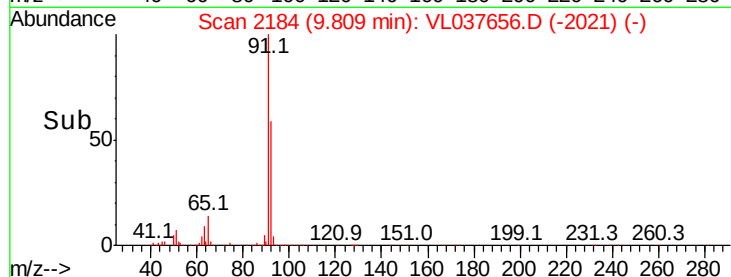
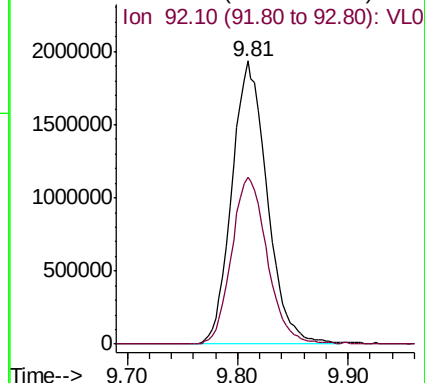
Ion Ratio Lower Upper

91 100

92 59.9 48.9 73.3



Abundance Ion 91.10 (90.80 to 91.80): VL0



#54

1,2-Dibromoethane

Concen: 9.196 ppbv

RT: 10.61 min Scan# 2434

Delta R.T. 0.02 min

Lab File: VL037656.D

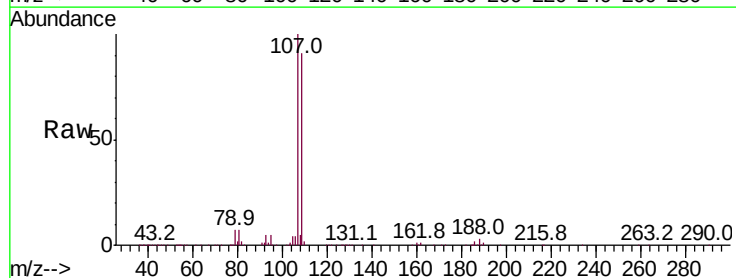
Acq: 23 Sep 2021 11:02

Tgt Ion: 107 Resp: 2113783

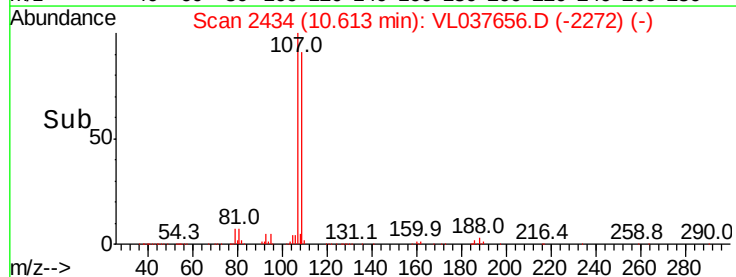
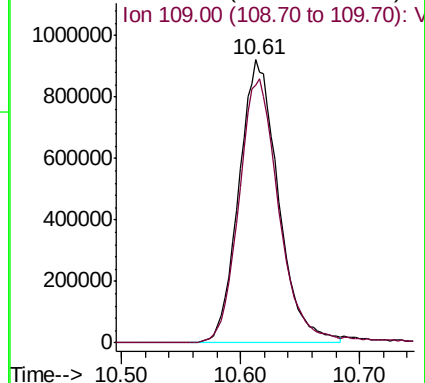
Ion Ratio Lower Upper

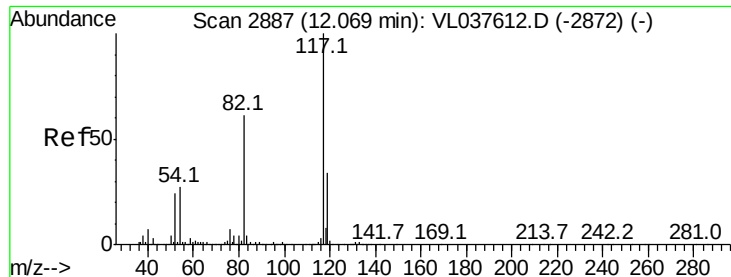
107 100

109 91.1 76.0 114.0



Abundance Ion 107.00 (106.70 to 107.70): V

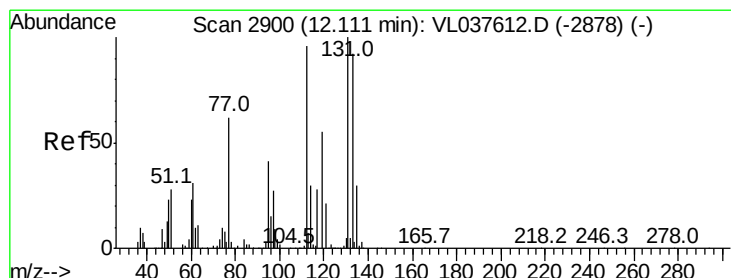
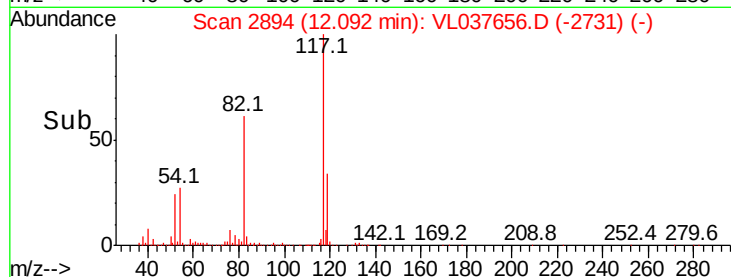
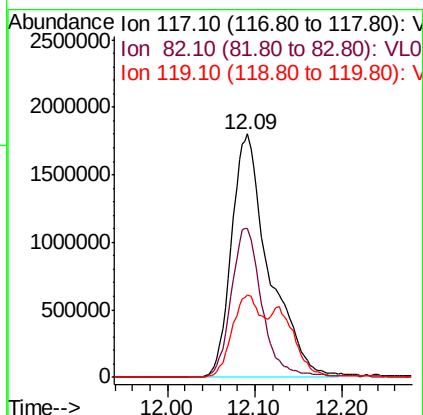
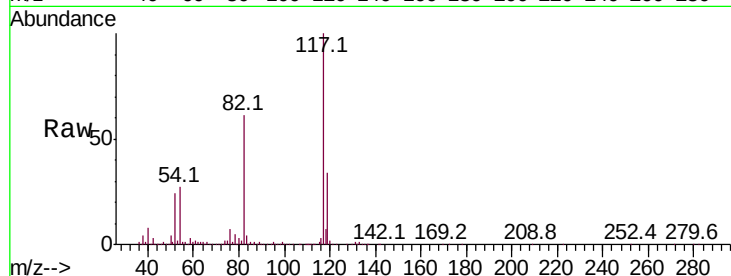




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.09 min Scan# 2894  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

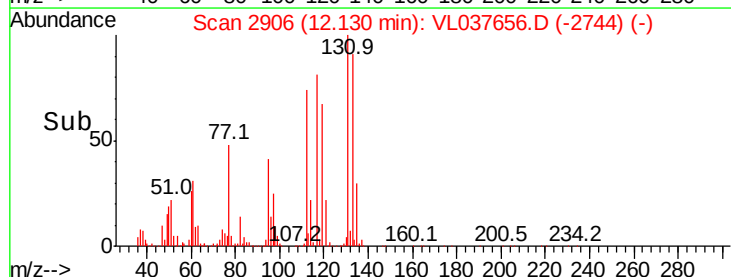
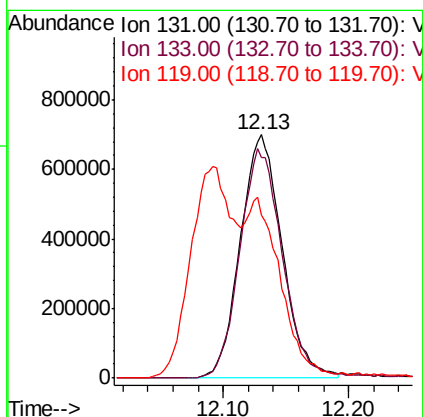
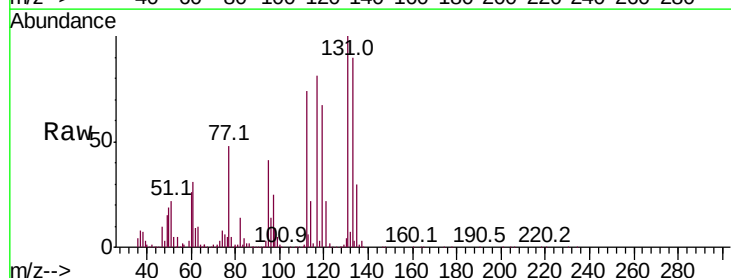
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion:117 Resp: 5355418  
Ion Ratio Lower Upper  
117 100  
82 51.1 50.6 75.8  
119 47.4 26.2 39.2#

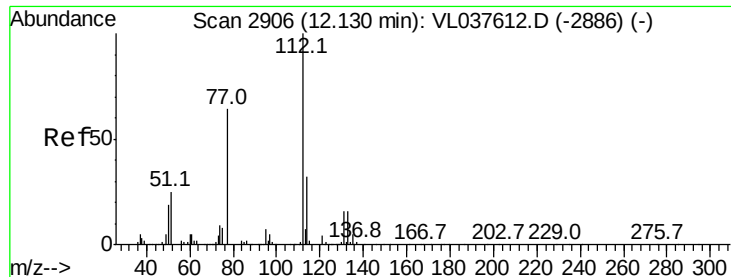


#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.309 ppbv  
RT: 12.13 min Scan# 2906  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion:131 Resp: 1623715  
Ion Ratio Lower Upper  
131 100  
133 97.2 76.8 115.2  
119 60.4 47.8 71.8



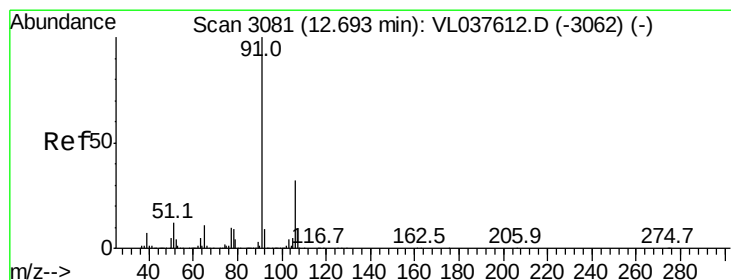
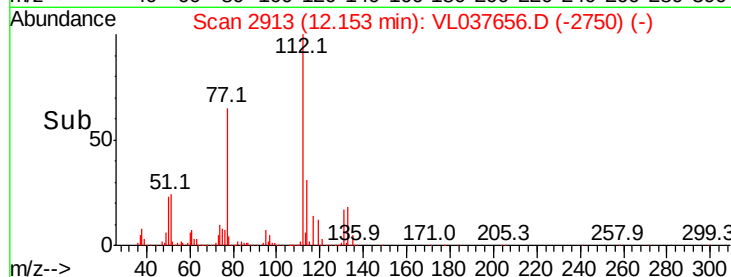
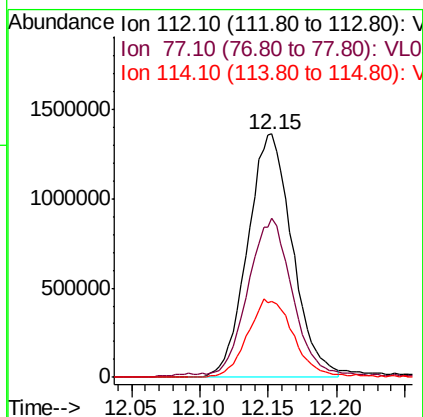
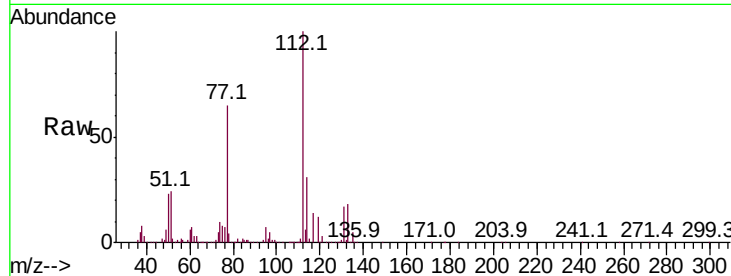




#57  
Chlorobenzene  
Concen: 6.959 ppbv  
RT: 12.15 min Scan# 2913  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

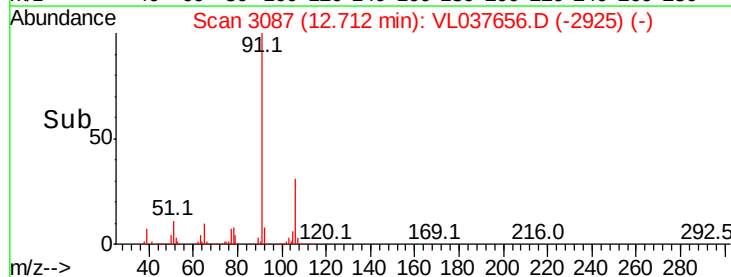
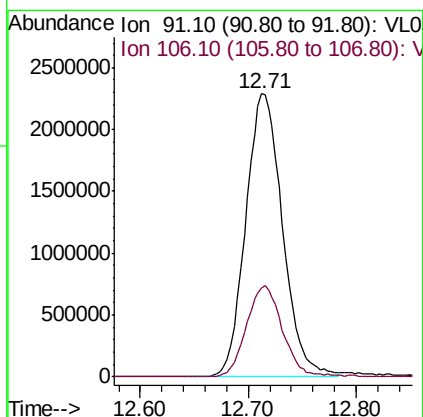
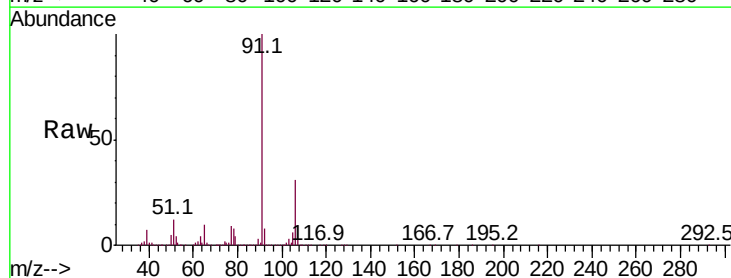
Instrument :  
MSVOA\_L  
ClientSampleId :

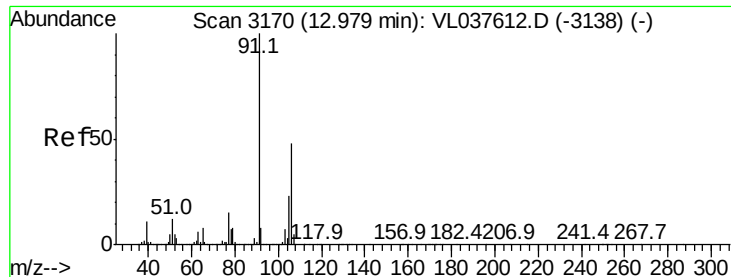
Tot Ion:112 Resp: 3098214  
Ion Ratio Lower Upper  
112 100  
77 63.8 52.1 78.1  
114 31.3 29.2 35.6



#58  
Ethyl Benzene  
Concen: 7.639 ppbv  
RT: 12.71 min Scan# 3087  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion: 91 Resp: 5430365  
Ion Ratio Lower Upper  
91 100  
106 31.3 25.3 37.9

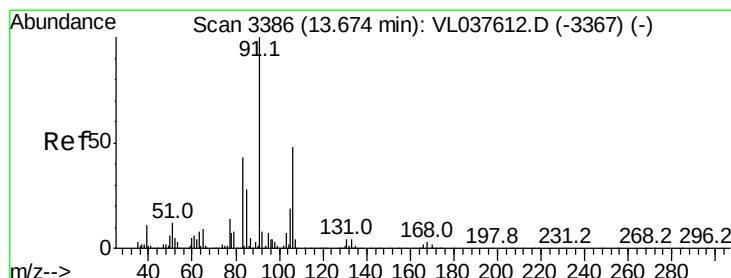
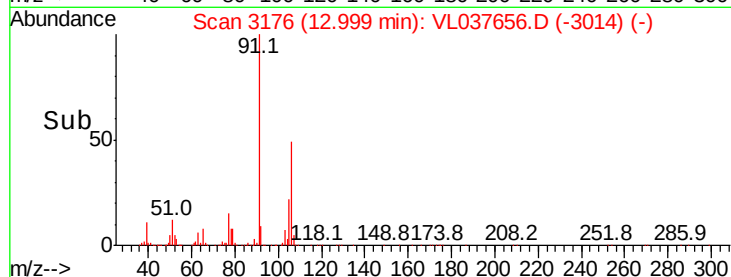
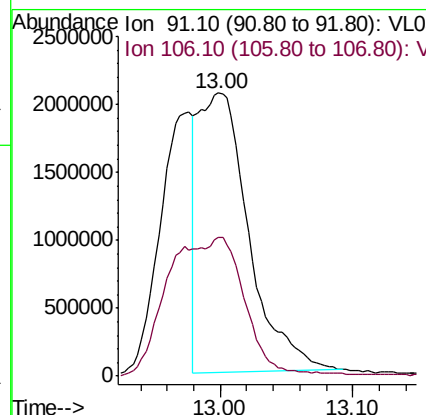
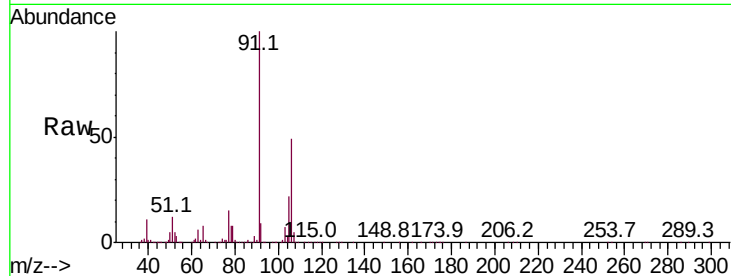




#59  
m/p-Xylene  
Concen: 8.722 ppbv  
RT: 13.00 min Scan# 3176  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

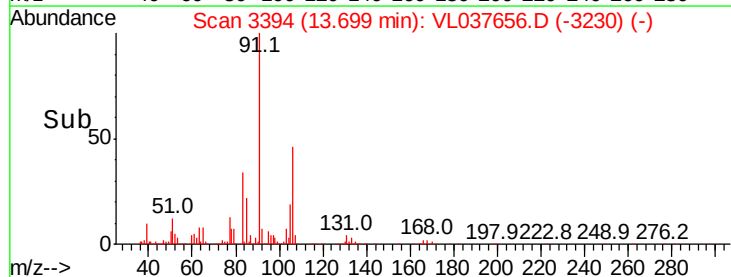
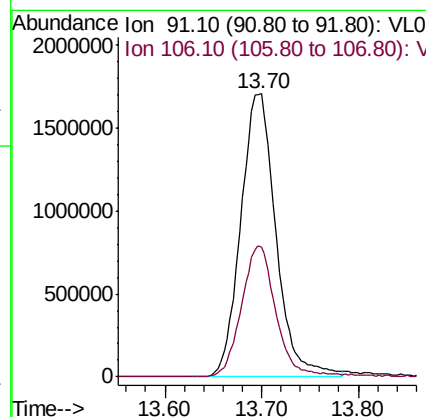
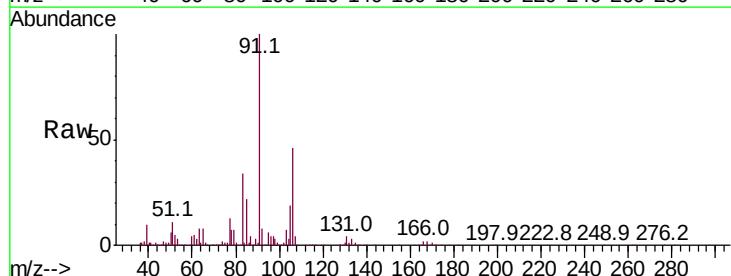
Instrument :  
MSVOA\_L  
ClientSampleId :

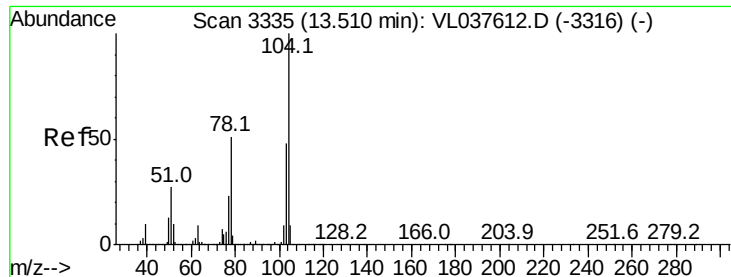
Tot Ion: 91 Resp: 5403649  
Ion Ratio Lower Upper  
91 100  
106 76.9 36.6 55.0#



#60  
o-Xylene  
Concen: 7.314 ppbv  
RT: 13.70 min Scan# 3394  
Delta R.T. 0.03 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion: 91 Resp: 4312804  
Ion Ratio Lower Upper  
91 100  
106 46.2 23.0 69.0

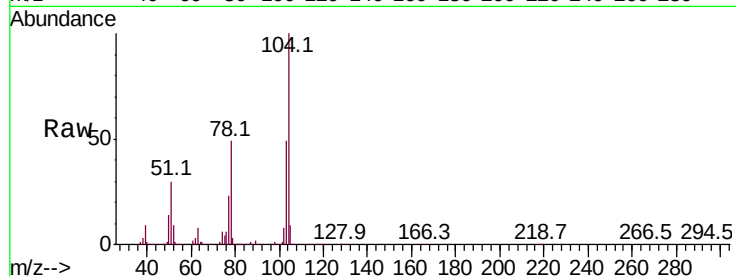




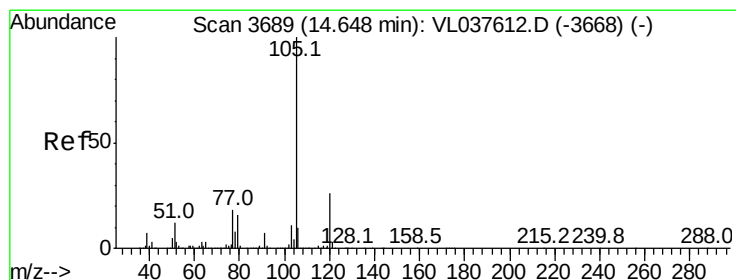
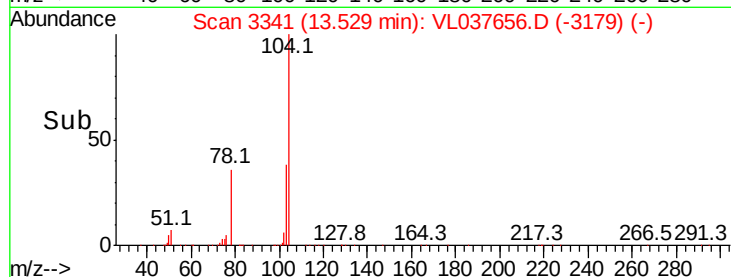
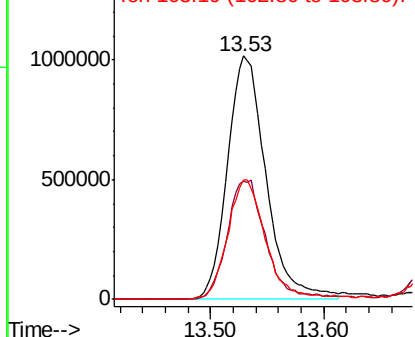
#61  
Stvrene  
Concen: 8.284 ppbv  
RT: 13.53 min Scan# 3341  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion:104 Resp: 2408653  
Ion Ratio Lower Upper  
104 100  
78 50.1 39.7 59.5  
103 48.8 38.8 58.2

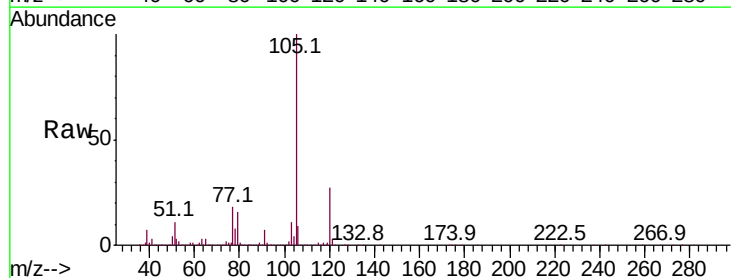


Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VL0  
Ion 103.10 (102.80 to 103.80): V

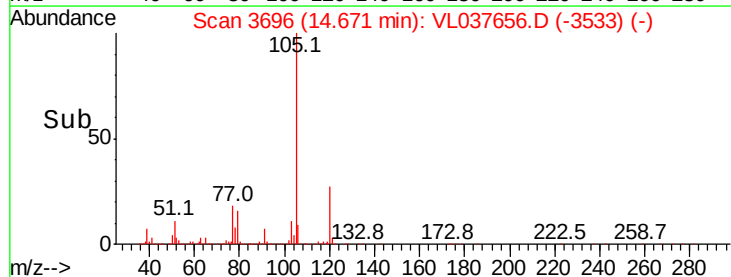
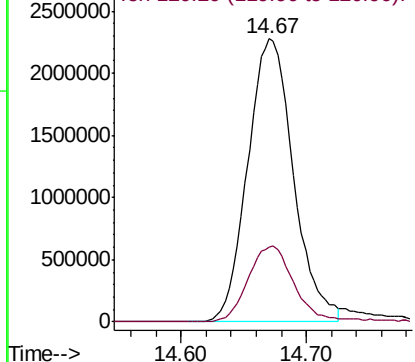


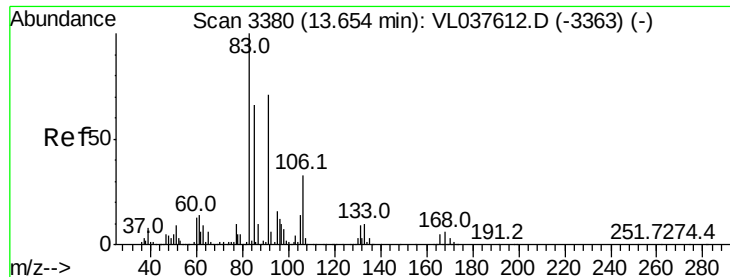
#62  
Isopropylbenzene  
Concen: 7.008 ppbv  
RT: 14.67 min Scan# 3696  
Delta R.T. 0.02 min  
Lab File: VL037656.D  
Acq: 23 Sep 2021 11:02

Tgt Ion:105 Resp: 5772731  
Ion Ratio Lower Upper  
105 100  
120 27.6 21.4 32.0



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: 6.413 ppbv

RT: 13.68 min Scan# 3388

Delta R.T. 0.03 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

ClientSampleId :

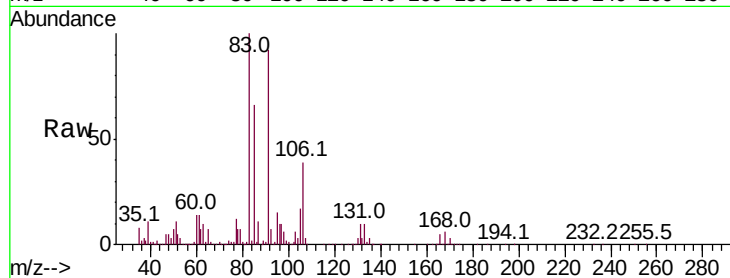
Tot Ion: 83 Resp: 2959466

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 131 | 10.1  | 5.1   | 15.3  |
| 85  | 67.9  | 33.3  | 99.9  |

83 100

131 10.1 5.1 15.3

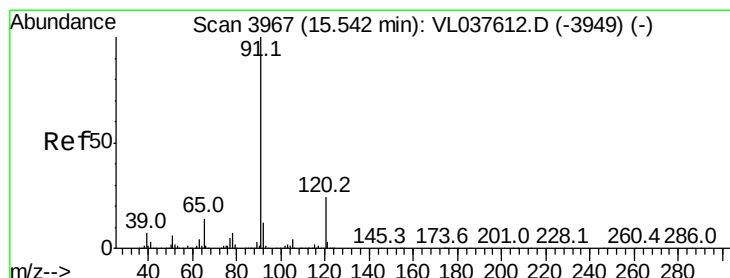
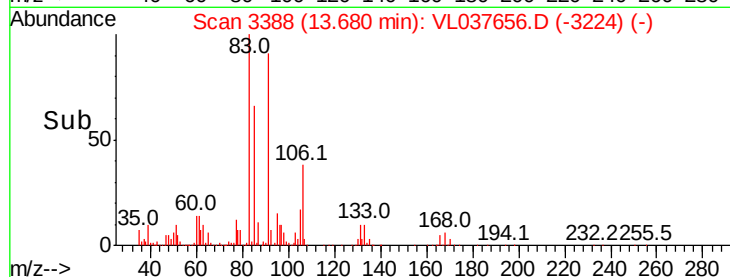
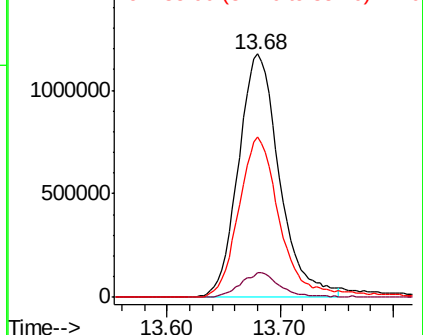
85 67.9 33.3 99.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.209 ppbv

RT: 15.56 min Scan# 3974

Delta R.T. 0.02 min

Lab File: VL037656.D

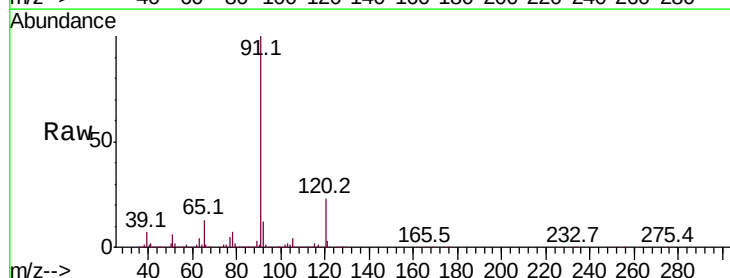
Acq: 23 Sep 2021 11:02

Tgt Ion:120 Resp: 1532345

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 120 | 100   |       |       |
| 91  | 478.6 | 345.0 | 517.4 |

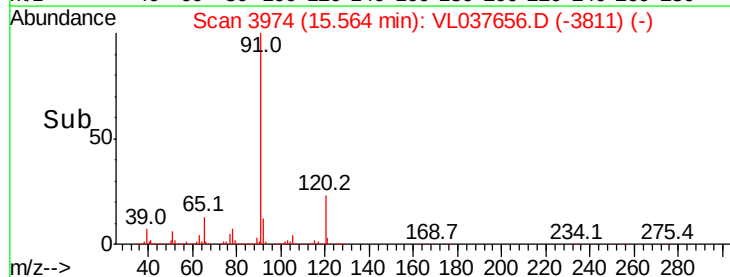
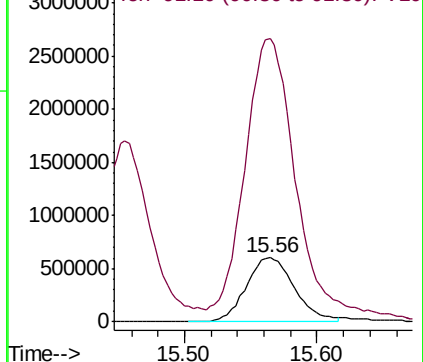
120 100

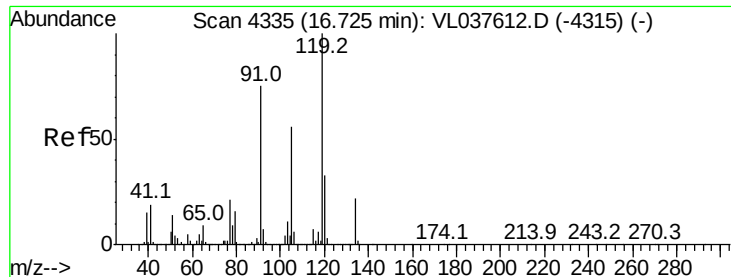
91 478.6 345.0 517.4



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

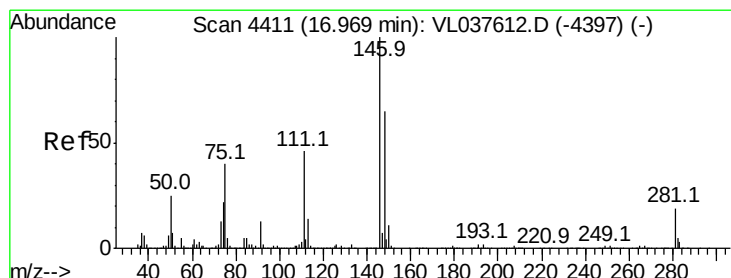
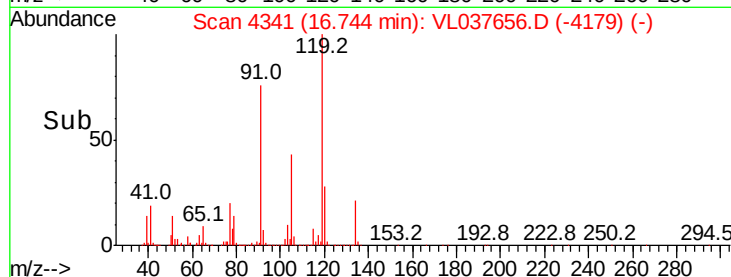
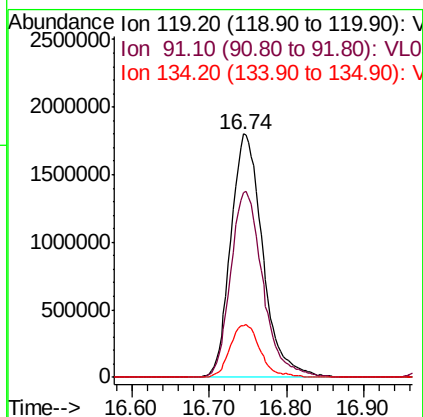
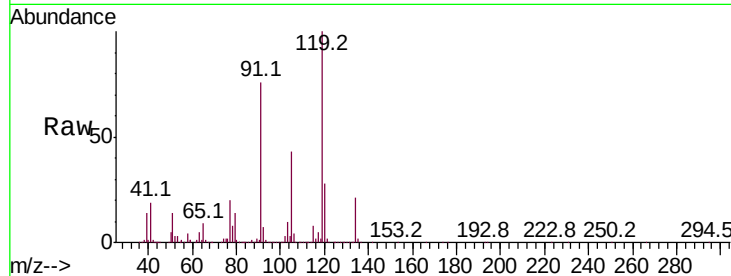




#65  
 tert-Butylbenzene  
 Concen: 6.929 ppbv  
 RT: 16.74 min Scan# 4341  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

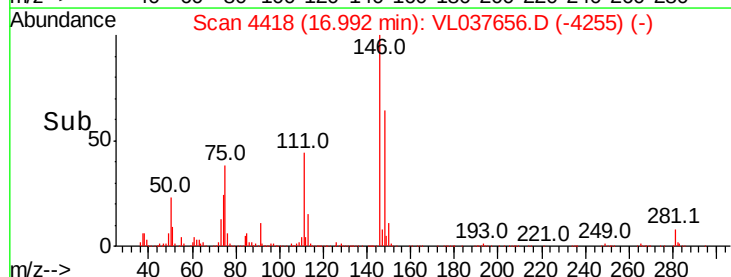
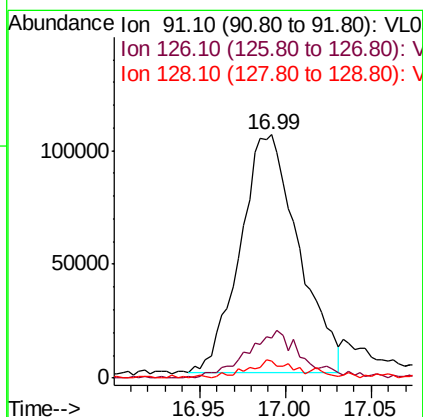
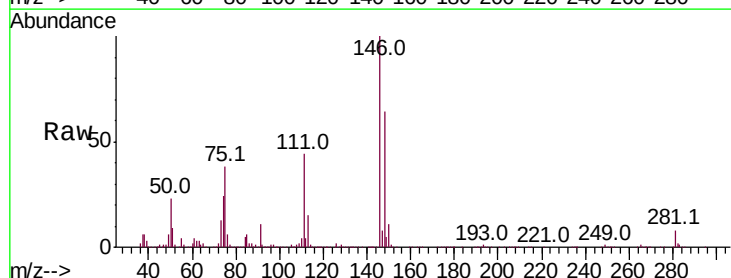
Instrument :  
 MSVOA\_L  
 ClientSampled :

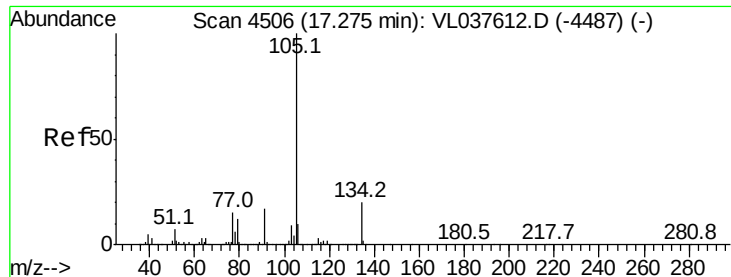
Tot Ion:119 Resp: 5145978  
 Ion Ratio Lower Upper  
 119 100  
 91 77.1 61.9 92.9  
 134 20.5 16.5 24.7



#66  
 Benzyl Chloride  
 Concen: 6.056 ppbv  
 RT: 16.99 min Scan# 4418  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Tgt Ion: 91 Resp: 245783  
 Ion Ratio Lower Upper  
 91 100  
 126 20.1 14.4 21.6  
 128 7.5 5.7 8.5





#67

sec-Butylbenzene

Concen: 7.053 ppbv

RT: 17.30 min Scan# 4513

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

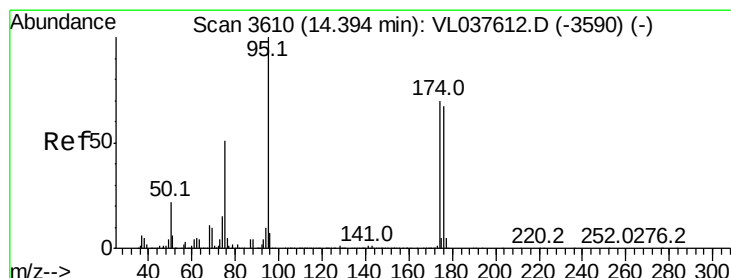
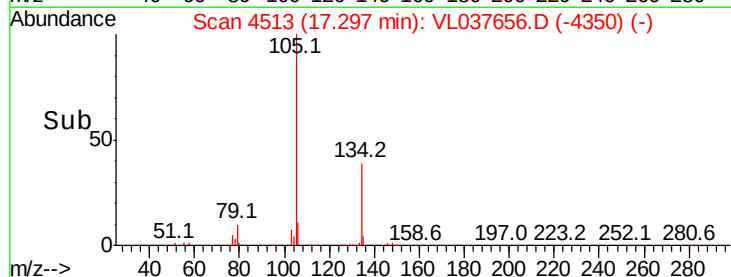
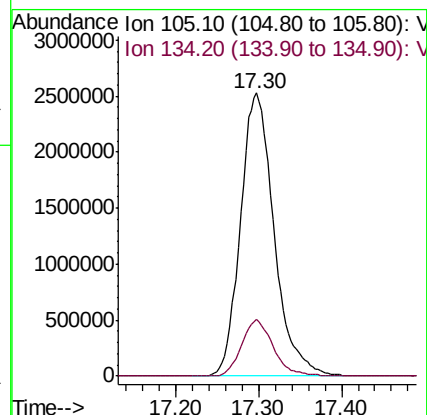
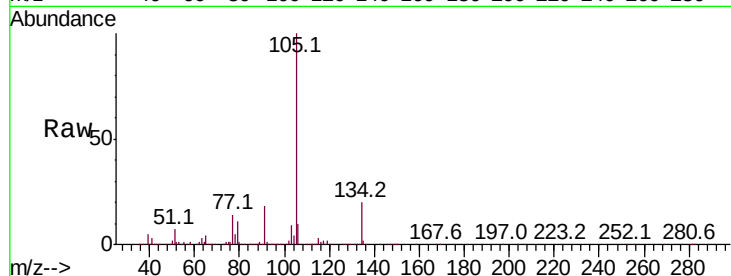
ClientSampled :

Tot Ion:105 Resp: 7106678

Ion Ratio Lower Upper

105 100

134 18.9 15.7 23.5



#68

1-Bromo-4-Fluorobenzene

Concen: 8.382 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.03 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

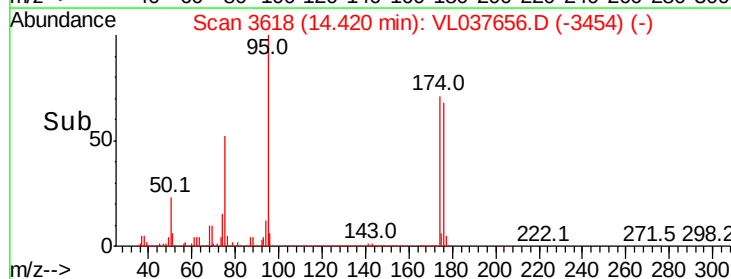
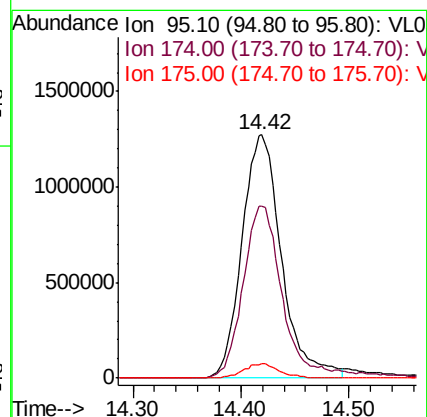
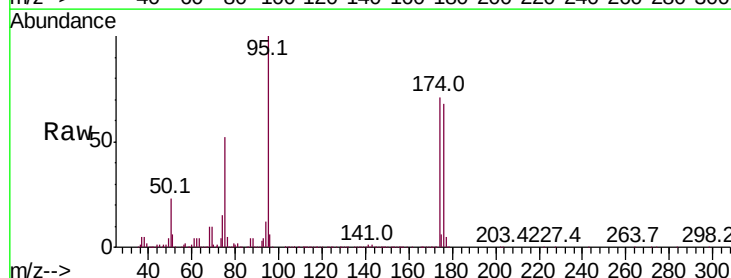
Tgt Ion: 95 Resp: 3244123

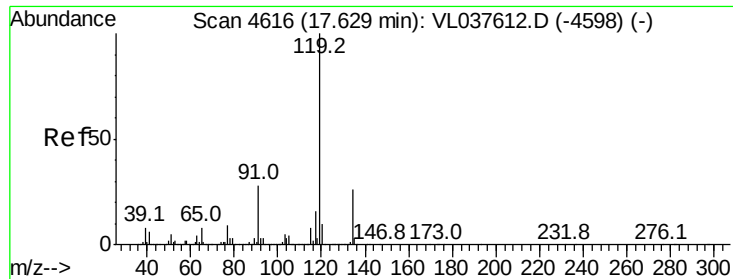
Ion Ratio Lower Upper

95 100

174 72.7 56.3 84.5

175 5.8 4.4 6.6

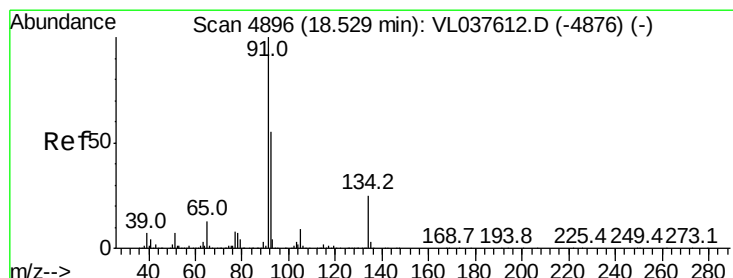
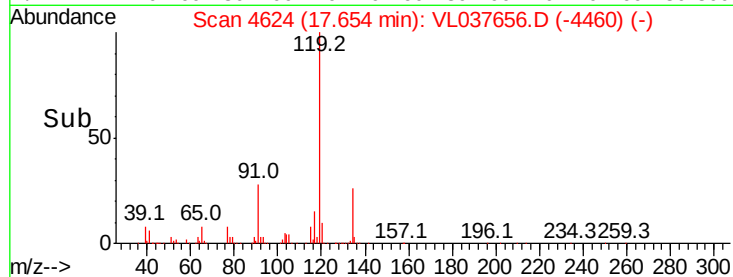
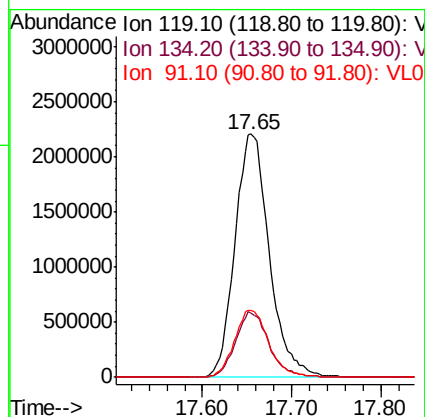
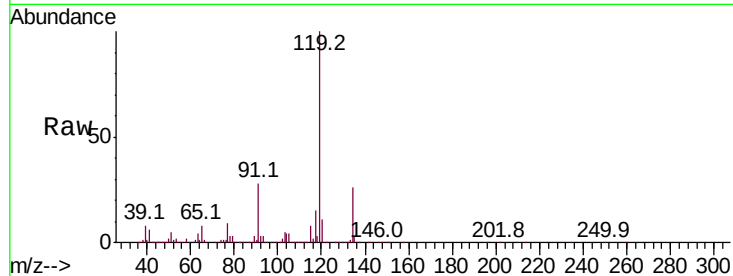




#69  
 p-Isopropyltoluene  
 Concen: 7.170 ppbv  
 RT: 17.65 min Scan# 4624  
 Delta R.T. 0.03 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

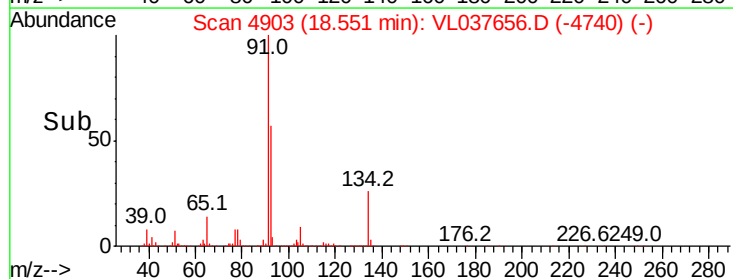
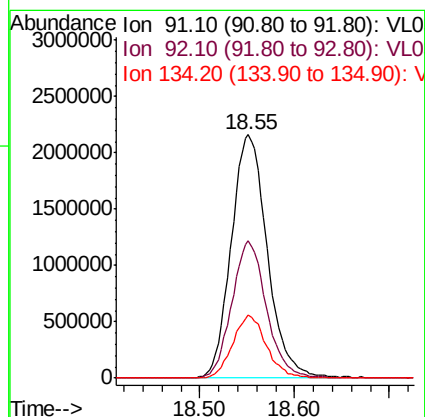
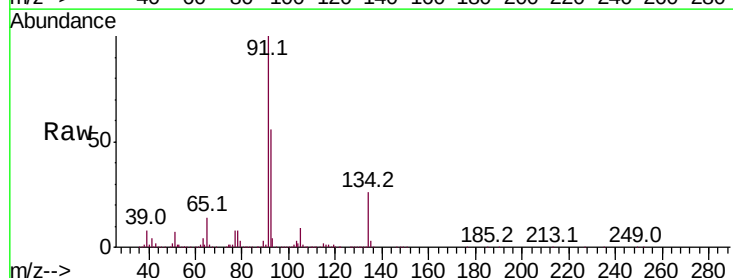
Instrument :  
 MSVOA\_L  
 ClientSampled :

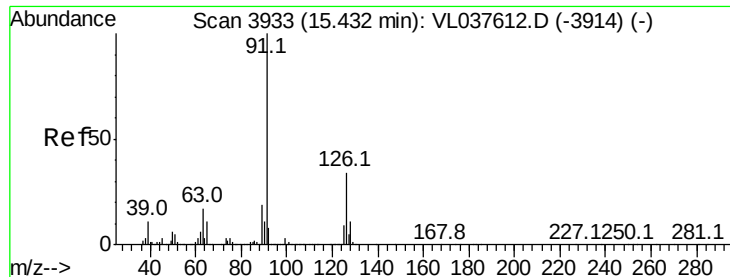
Tot Ion:119 Resp: 5902343  
 Ion Ratio Lower Upper  
 119 100  
 134 26.1 21.2 31.8  
 91 27.5 22.2 33.2



#70  
 n-Butylbenzene  
 Concen: 7.313 ppbv  
 RT: 18.55 min Scan# 4903  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Tgt Ion: 91 Resp: 5696344  
 Ion Ratio Lower Upper  
 91 100  
 92 54.6 44.0 66.0  
 134 24.5 19.5 29.3

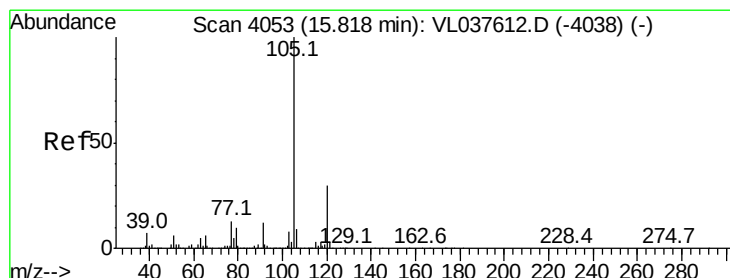
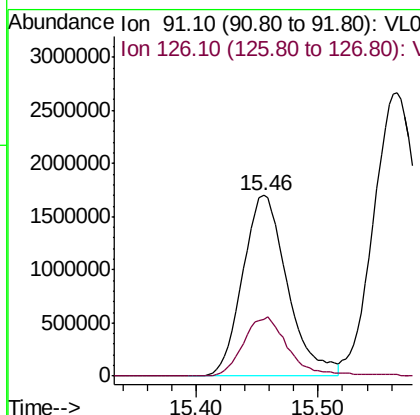
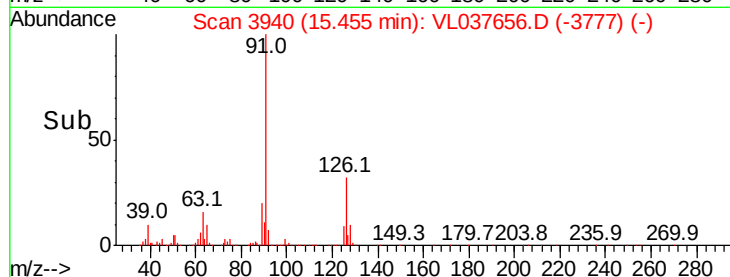
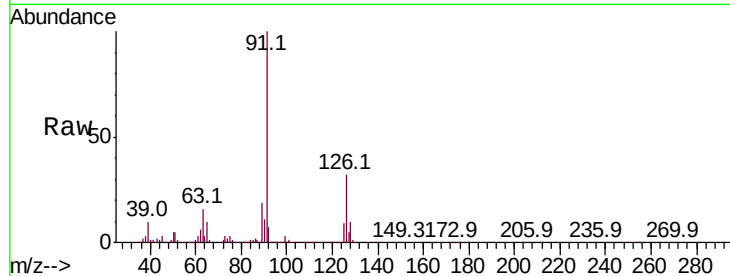




#71  
 2-Chlorotoluene  
 Concen: 7.310 ppbv  
 RT: 15.46 min Scan# 3940  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

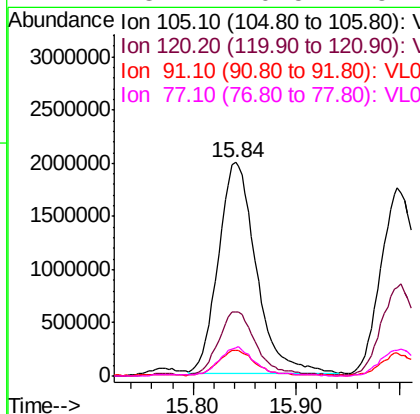
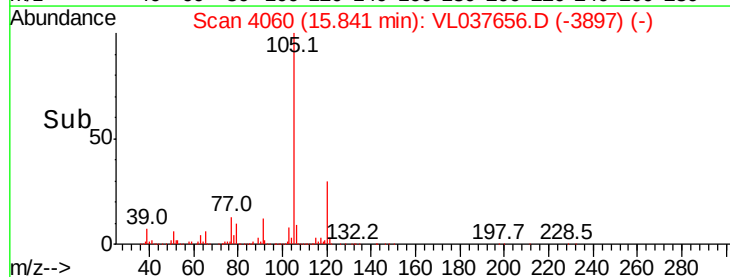
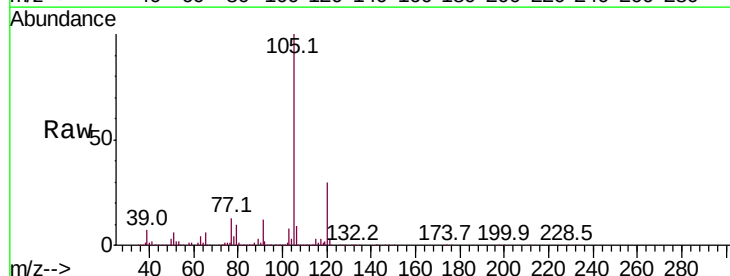
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 91 Resp: 4315119  
 Ion Ratio Lower Upper  
 91 100  
 126 33.7 13.2 52.8

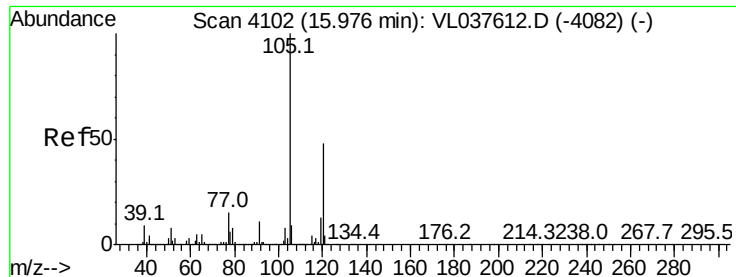


#72  
 4-Ethyltoluene  
 Concen: 7.432 ppbv  
 RT: 15.84 min Scan# 4060  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Tgt Ion: 105 Resp: 5030421  
 Ion Ratio Lower Upper  
 105 100  
 120 31.3 24.7 37.1  
 91 11.8 9.9 14.9  
 77 13.4 10.5 15.7







#73

1,3,5-Trimethylbenzene

Concen: 7.094 ppbv

RT: 16.00 min Scan# 4109

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

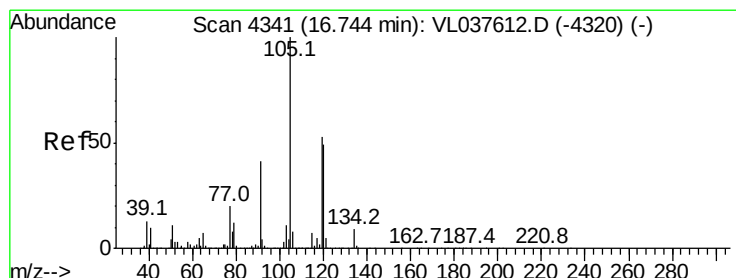
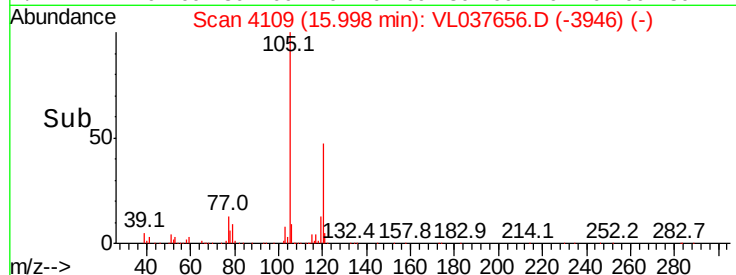
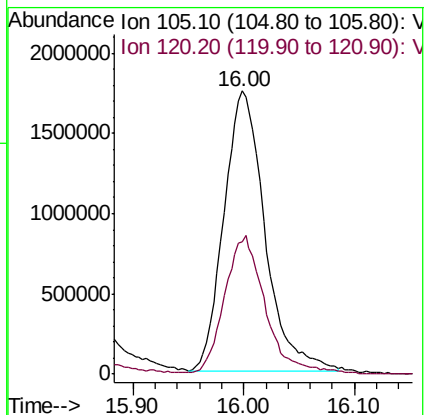
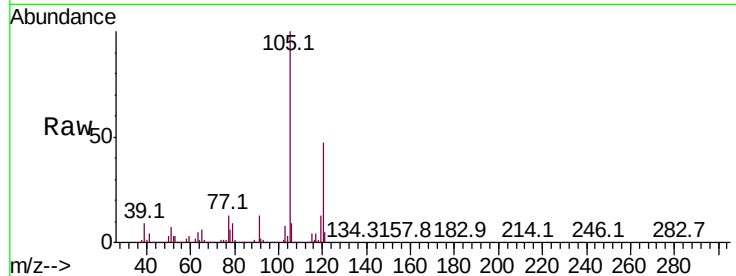
ClientSampleId :

Tot Ion:105 Resp: 4476022

Ion Ratio Lower Upper

105 100

120 47.0 38.3 57.5



#74

1,2,4-Trimethylbenzene

Concen: 7.053 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Tgt Ion:105 Resp: 4687065

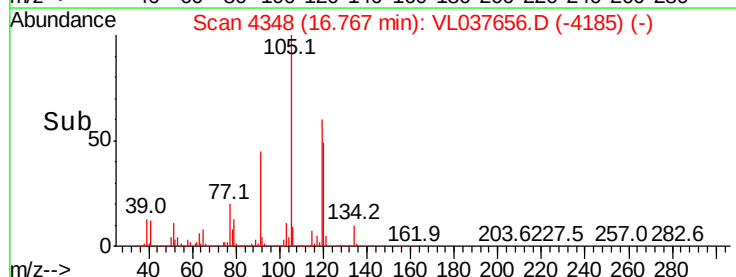
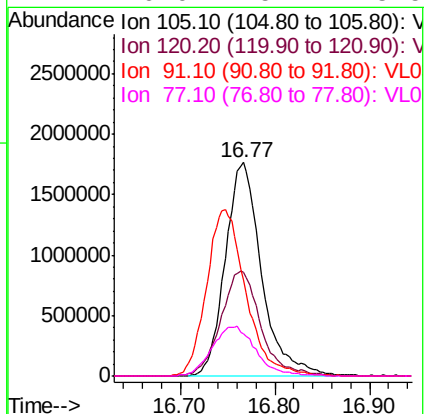
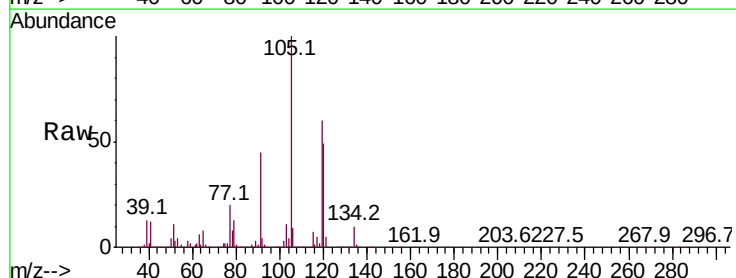
Ion Ratio Lower Upper

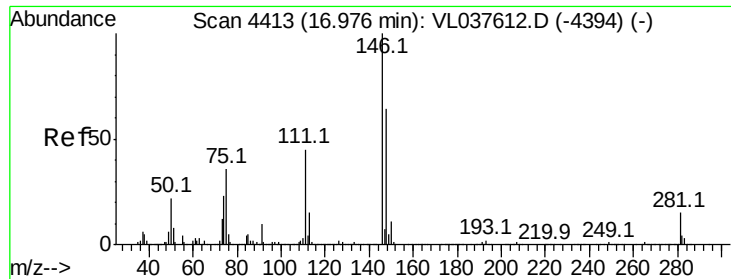
105 100

120 48.5 39.4 59.0

91 44.4 33.3 49.9

77 20.0 15.7 23.5

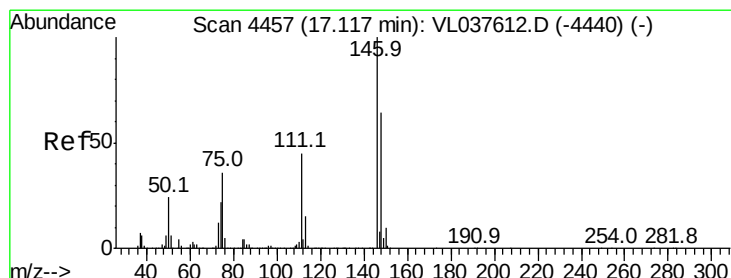
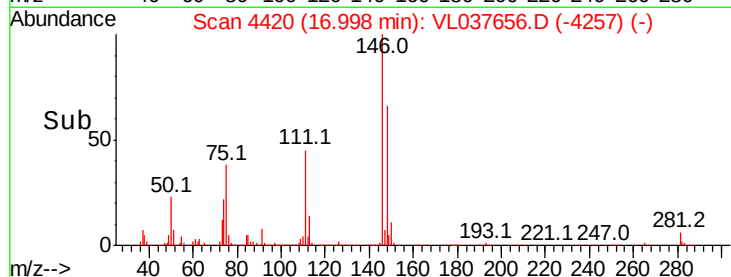
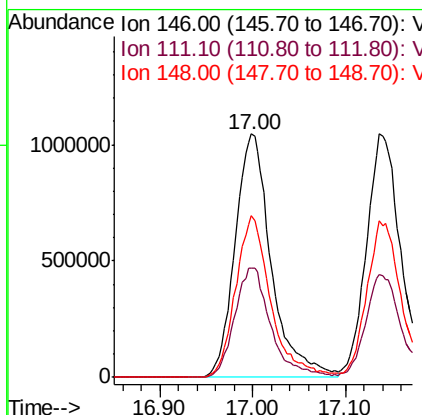
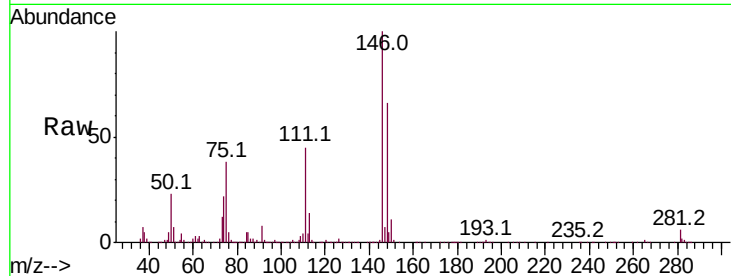




#75  
 1,3-Dichlorobenzene  
 Concen: 6.851 ppbv  
 RT: 17.00 min Scan# 4420  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

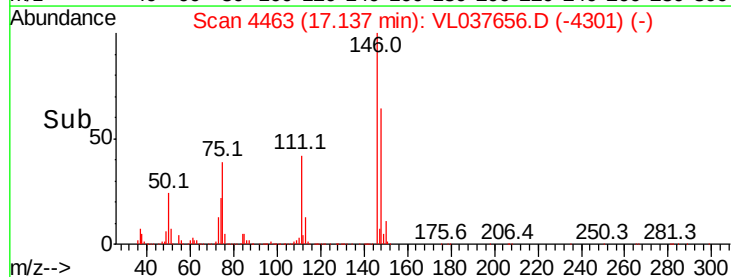
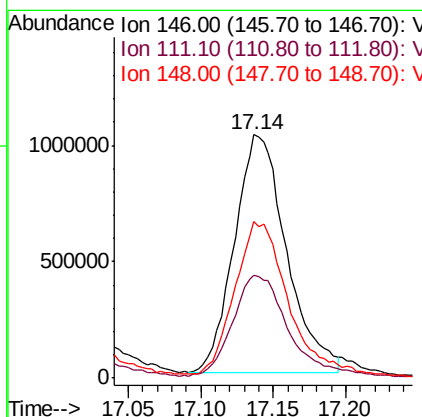
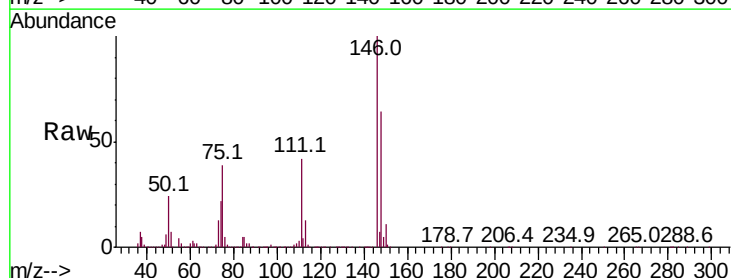
Instrument :  
 MSVOA\_L  
 ClientSampleId :

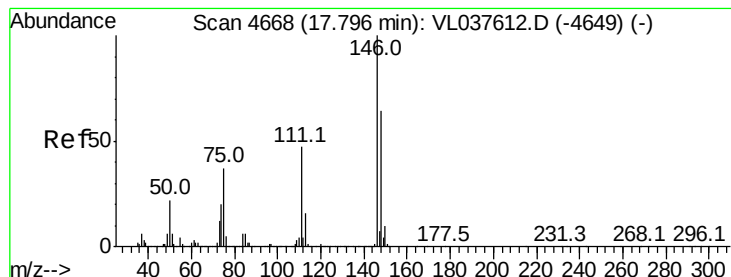
Tot Ion:146 Resp: 2828760  
 Ion Ratio Lower Upper  
 146 100  
 111 45.0 22.8 68.3  
 148 64.5 32.1 96.5



#76  
 1,4-Dichlorobenzene  
 Concen: 6.328 ppbv  
 RT: 17.14 min Scan# 4463  
 Delta R.T. 0.02 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Tgt Ion:146 Resp: 2576937  
 Ion Ratio Lower Upper  
 146 100  
 111 47.3 22.5 67.5  
 148 69.7 32.9 98.6





#77

1,2-Dichlorobenzene

Concen: 6.792 ppbv

RT: 17.82 min Scan# 4675

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

ClientSampleId :

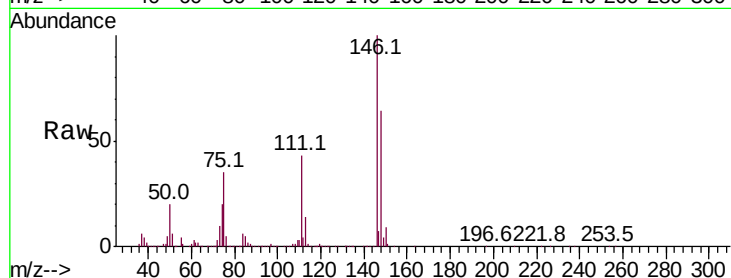
Tot Ion:146 Resp: 2659750

Ion Ratio Lower Upper

146 100

111 47.1 24.0 72.0

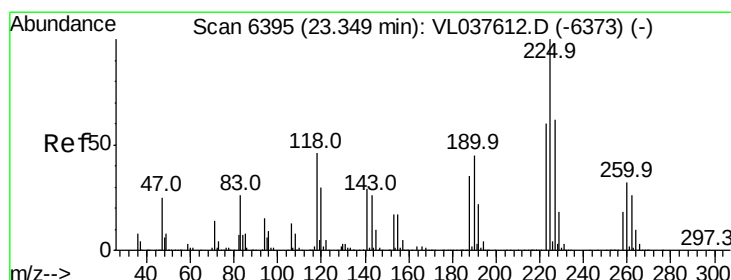
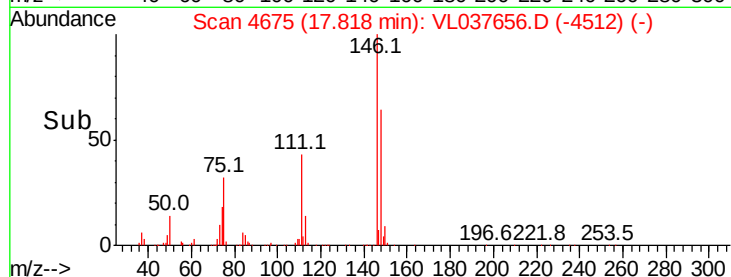
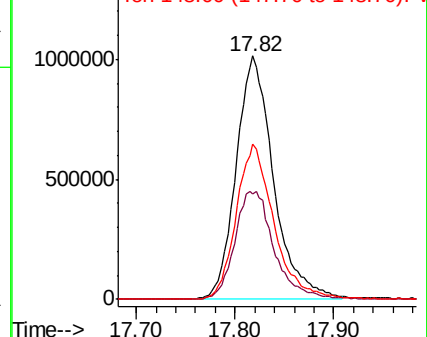
148 64.5 32.8 98.3



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: 6.052 ppbv

RT: 23.38 min Scan# 6404

Delta R.T. 0.03 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

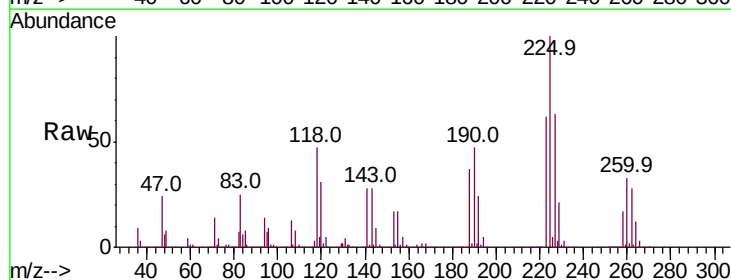
Tgt Ion:225 Resp: 1994622

Ion Ratio Lower Upper

225 100

223 64.0 51.1 76.7

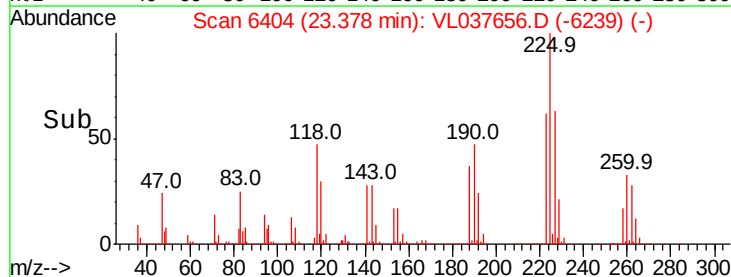
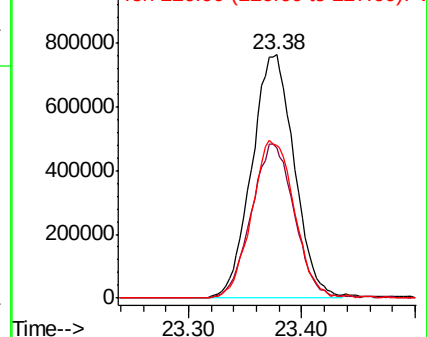
227 65.7 52.2 78.4

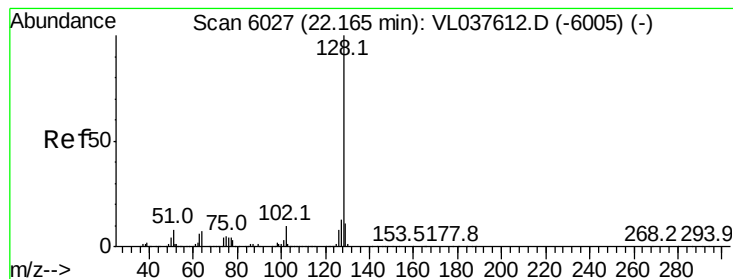


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 8.447 ppbv

RT: 22.20 min Scan# 6037

Delta R.T. 0.03 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

Instrument :

MSVOA\_L

ClientSampleId :

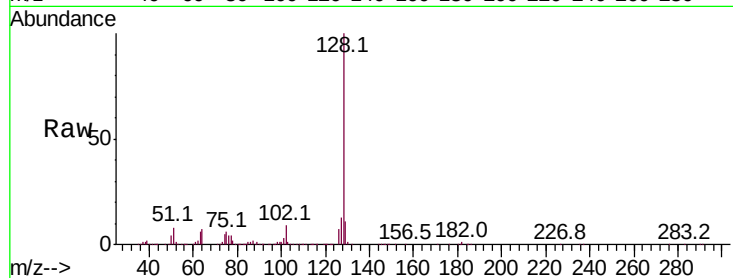
Tot Ion:128 Resp: 3446806

Ion Ratio Lower Upper

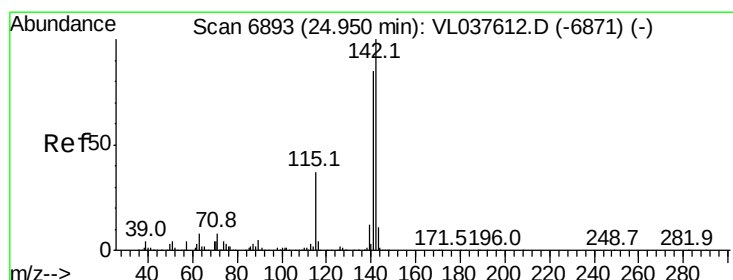
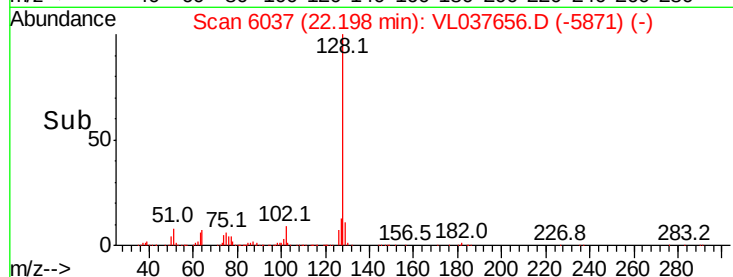
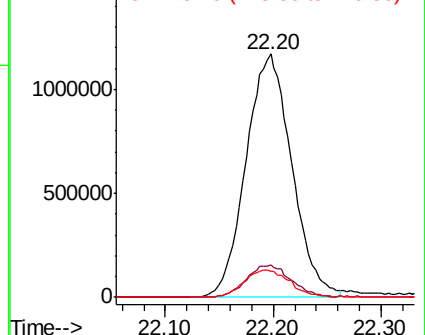
128 100

127 13.1 10.6 16.0

129 10.7 8.6 12.8



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: 7.195 ppbv

RT: 24.97 min Scan# 6899

Delta R.T. 0.02 min

Lab File: VL037656.D

Acq: 23 Sep 2021 11:02

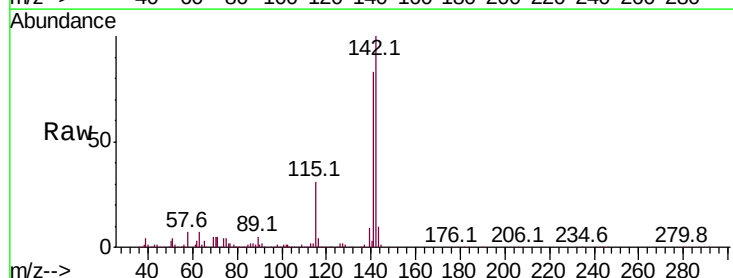
Tgt Ion:142 Resp: 670994

Ion Ratio Lower Upper

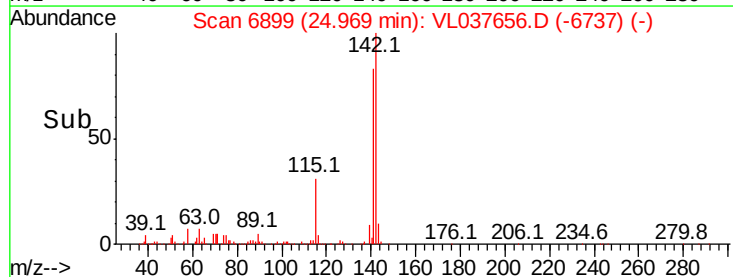
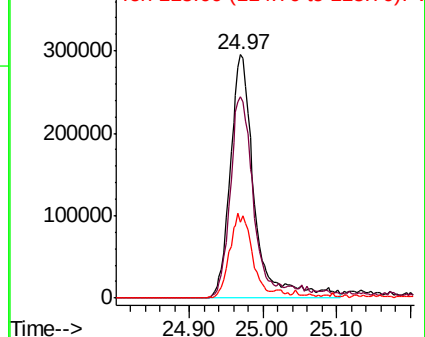
142 100

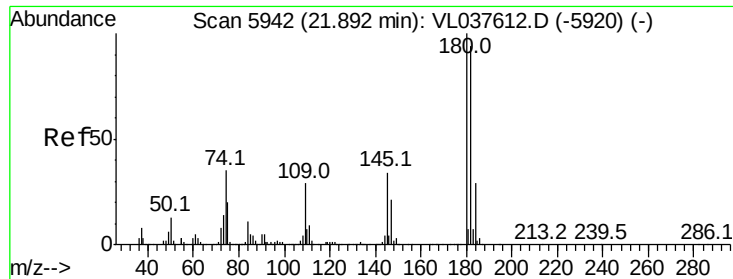
141 86.2 70.9 106.3

115 35.5 29.6 44.4



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

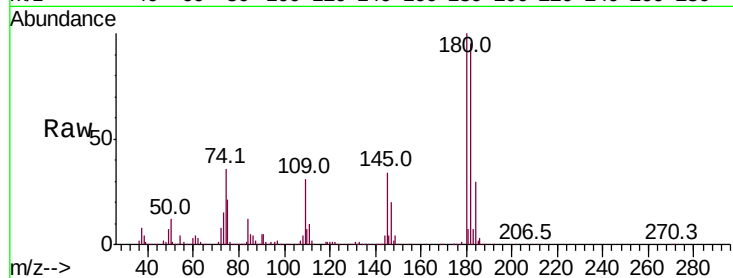




#81  
 1,2,4-Trichlorobenzene  
 Concen: 7.865 ppbv  
 RT: 21.93 min Scan# 5953  
 Delta R.T. 0.04 min  
 Lab File: VL037656.D  
 Acq: 23 Sep 2021 11:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:180 Resp: 2060504  
 Ion Ratio Lower Upper  
 180 100  
 182 98.7 78.9 118.3  
 184 30.8 24.7 37.1



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

