

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081821\  
 Data File : VL037489.D  
 Acq On : 18 Aug 2021 13:35  
 Operator : SY/AP  
 Sample : M2940-15 0.1LOD  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Aug 19 01:40:47 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Aug 17 02:13:47 2021  
 QLast Update : Tue Aug 17 02:13:47 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1319802  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.16  | 114  | 4002000  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.07 | 117  | 3395104  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 2397204  | 9.94     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.40% |

| Target Compounds               |       |     |        |       | Ovalue    |
|--------------------------------|-------|-----|--------|-------|-----------|
| 2) Dichlorodifluoromethane     | 3.05  | 85  | 14879  | 0.070 | ppbv 99   |
| 3) Chlorodifluoromethane       | 2.99  | 51  | 32583  | 0.129 | ppbv 93   |
| 4) Chloromethane               | 3.13  | 50  | 5950   | 0.066 | ppbv 97   |
| 5) Vinyl Chloride              | 3.25  | 62  | 10030  | 0.108 | ppbv # 87 |
| 6) Bromomethane                | 3.47  | 94  | 3106   | 0.061 | ppbv 87   |
| 7) Chloroethane                | 3.55  | 64  | 3249   | 0.103 | ppbv # 55 |
| 8) Dichlorotetrafluoroethane   | 3.19  | 85  | 27155  | 0.124 | ppbv 98   |
| 9) Propene                     | 3.00  | 41  | 4502   | 0.050 | ppbv # 16 |
| 10) Heptane                    | 8.10  | 43  | 12153  | 0.058 | ppbv # 31 |
| 11) Trichlorofluoromethane     | 3.94  | 101 | 18028  | 0.091 | ppbv 98   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48  | 101 | 11076  | 0.076 | ppbv # 10 |
| 13) Ethanol                    | 3.61  | 45  | 353    | 0.040 | ppbv # 39 |
| 14) Bromoethene                | 3.74  | 108 | 7146   | 0.108 | ppbv # 61 |
| 16) 1,3-Butadiene              | 3.32  | 39  | 10318  | 0.120 | ppbv 96   |
| 18) 1,1-Dichloroethene         | 4.28  | 96  | 5107   | 0.077 | ppbv # 74 |
| 20) Methylene Chloride         | 4.34  | 84  | 13696  | 0.204 | ppbv # 63 |
| 21) Allyl Chloride             | 4.40  | 41  | 4166   | 0.038 | ppbv # 1  |
| 24) 1,1-Dichloroethane         | 5.01  | 63  | 4579   | 0.032 | ppbv # 60 |
| 26) Hexane                     | 5.68  | 57  | 11123  | 0.067 | ppbv # 1  |
| 27) Carbon Disulfide           | 4.54  | 76  | 7771   | 0.052 | ppbv # 65 |
| 28) Methyl tert-Butyl Ether    | 5.04  | 73  | 5671   | 0.035 | ppbv # 51 |
| 29) Chloroform                 | 5.74  | 83  | 28994  | 0.123 | ppbv 99   |
| 30) Cyclohexane                | 7.11  | 84  | 7063   | 0.051 | ppbv # 1  |
| 31) cis-1,2-Dichloroethene     | 5.54  | 61  | 8190   | 0.054 | ppbv # 86 |
| 32) 1,1,1-Trichloroethane      | 6.50  | 97  | 11208  | 0.048 | ppbv # 1  |
| 35) Carbon Tetrachloride       | 7.01  | 117 | 17757  | 0.075 | ppbv # 76 |
| 36) Benzene                    | 6.87  | 78  | 15645  | 0.047 | ppbv 96   |
| 37) 1,2-Dichloroethane         | 6.29  | 62  | 7523   | 0.045 | ppbv # 78 |
| 38) Trichloroethene            | 7.82  | 130 | 4334   | 0.031 | ppbv # 40 |
| 39) 1,2-Dichloropropane        | 7.16  | 63  | 914894 | 7.077 | ppbv # 27 |
| 42) Bromodichloromethane       | 7.78  | 83  | 14678  | 0.060 | ppbv # 77 |
| 43) Methyl Methacrylate        | 8.01  | 69  | 4382   | 0.037 | ppbv # 1  |
| 44) 2,2,4-Trimethylpentane     | 7.86  | 57  | 32455  | 0.057 | ppbv # 35 |
| 47) 1,1,2-Trichloroethane      | 9.46  | 97  | 9781   | 0.070 | ppbv # 83 |
| 53) Toluene                    | 9.79  | 91  | 13387  | 0.035 | ppbv # 1  |
| 60) o-Xylene                   | 13.67 | 91  | 23272  | 0.061 | ppbv 65   |
| 61) Styrene                    | 13.52 | 104 | 6104   | 0.031 | ppbv # 1  |
| 62) Isopropylbenzene           | 14.65 | 105 | 27503  | 0.051 | ppbv # 44 |
| 67) sec-Butylbenzene           | 17.28 | 105 | 27869  | 0.041 | ppbv # 26 |
| 69) p-Isopropyltoluene         | 17.64 | 119 | 20807  | 0.037 | ppbv # 23 |
| 71) 2-Chlorotoluene            | 15.43 | 91  | 26694  | 0.068 | ppbv 70   |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Aug 17 02:13:47 2021  
QLast Update : Tue Aug 17 02:13:47 2021  
Response via : Initial Calibration

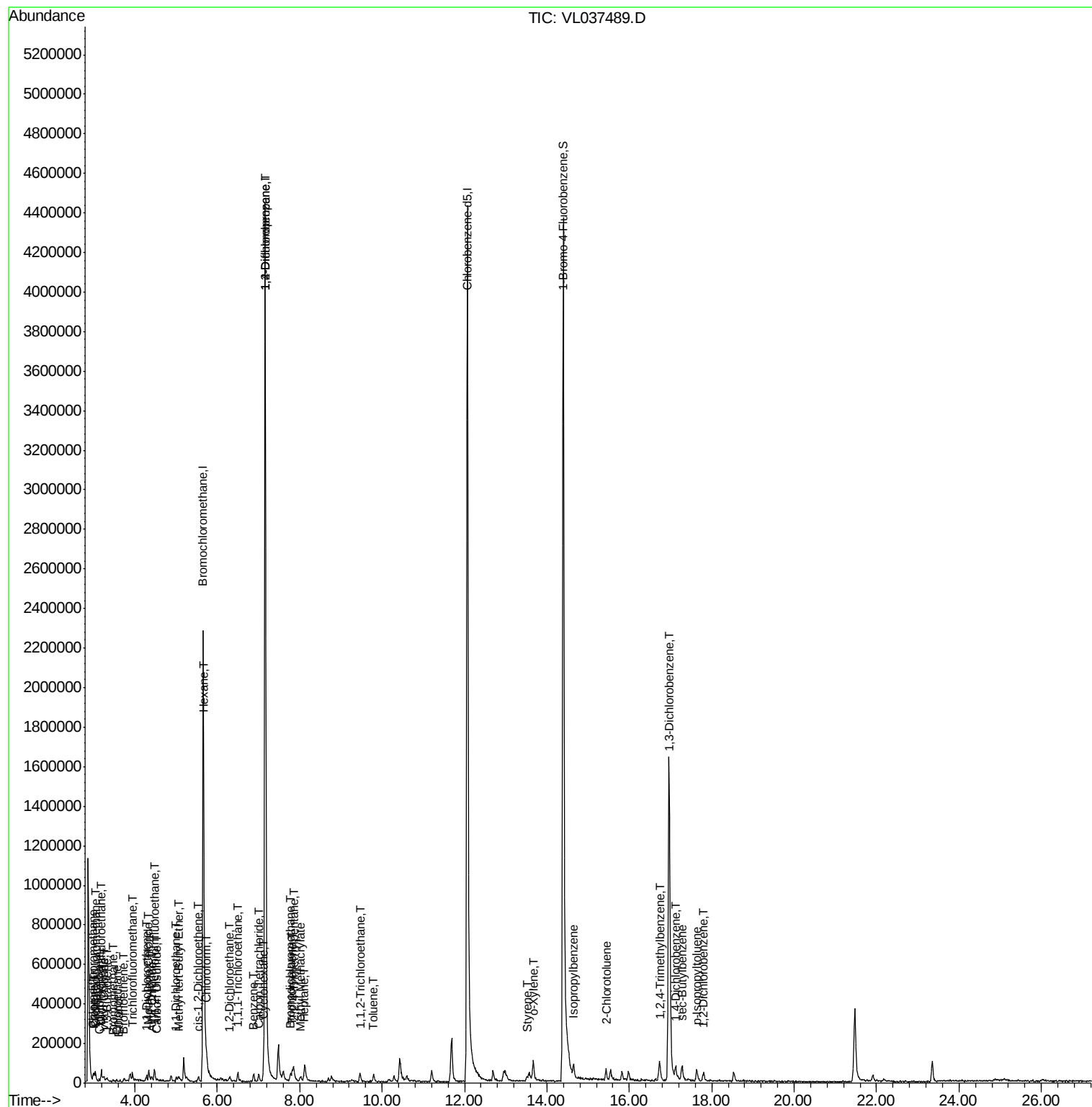
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 74) 1,2,4-Trimethylbenzene | 16.75 | 105  | 13596    | 0.030 | ppbv   | 91       |
| 75) 1,3-Dichlorobenzene    | 16.99 | 146  | 15751    | 0.058 | ppbv # | 9        |
| 76) 1,4-Dichlorobenzene    | 17.12 | 146  | 12605    | 0.046 | ppbv # | 10       |
| 77) 1,2-Dichlorobenzene    | 17.81 | 146  | 11520    | 0.043 | ppbv # | 1        |

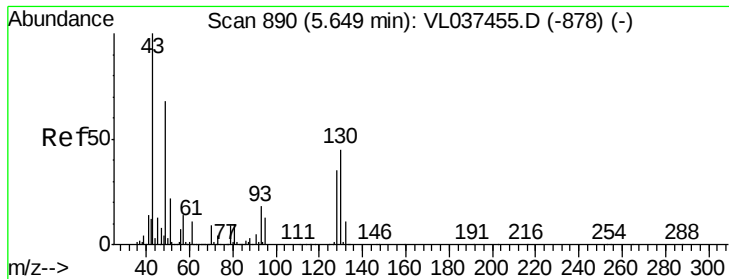
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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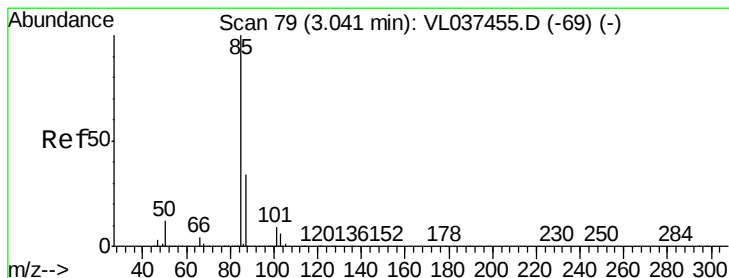
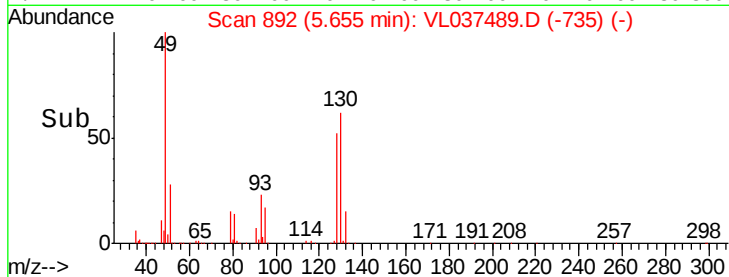
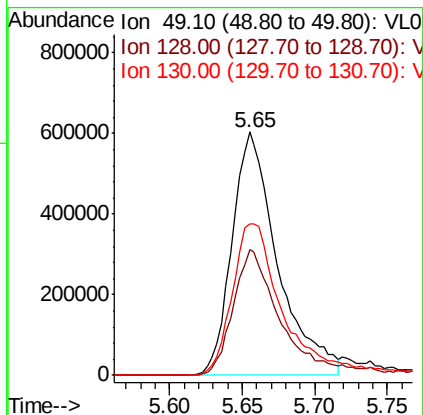
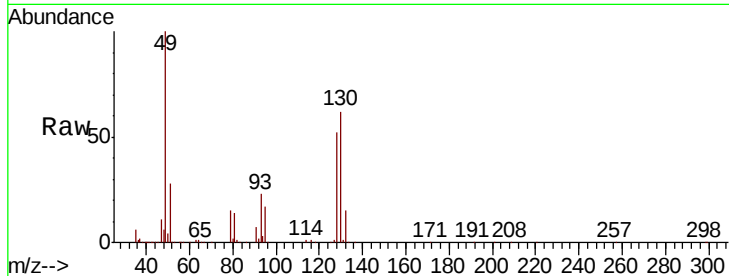


#1

Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.65 min Scan# 892  
 Delta R.T. 0.01 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

Instrument :  
 MSVOA\_L  
 ClientSampled :

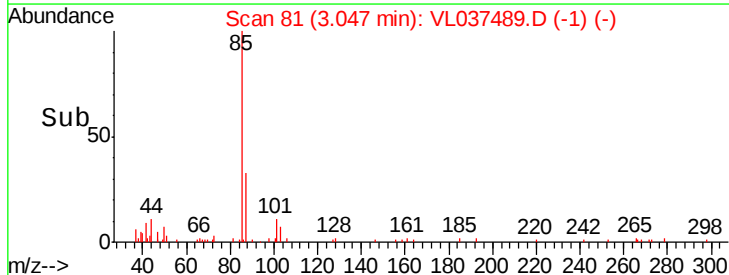
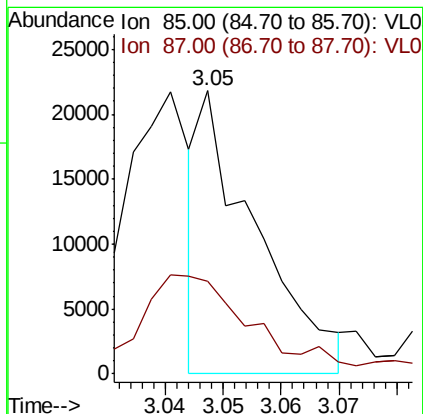
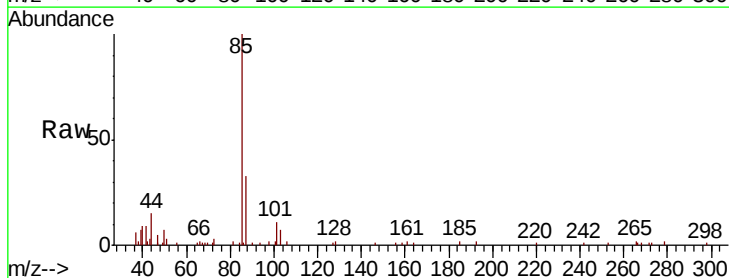
Tot Ion: 49 Resp: 1319802  
 Ion Ratio Lower Upper  
 49 100  
 128 56.0 27.5 82.4  
 130 72.1 34.0 101.8

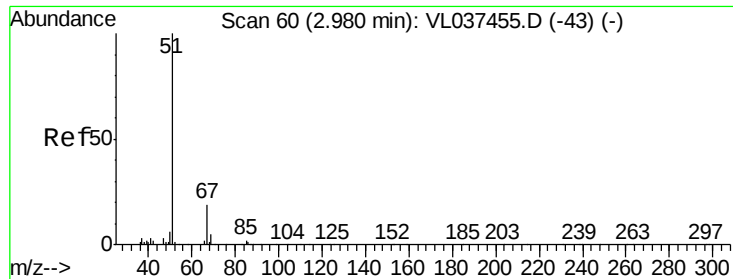


#2

Dichlorodifluoromethane  
 Concen: 0.070 ppbv  
 RT: 3.05 min Scan# 81  
 Delta R.T. 0.01 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

Tgt Ion: 85 Resp: 14879  
 Ion Ratio Lower Upper  
 85 100  
 87 33.6 27.6 41.4

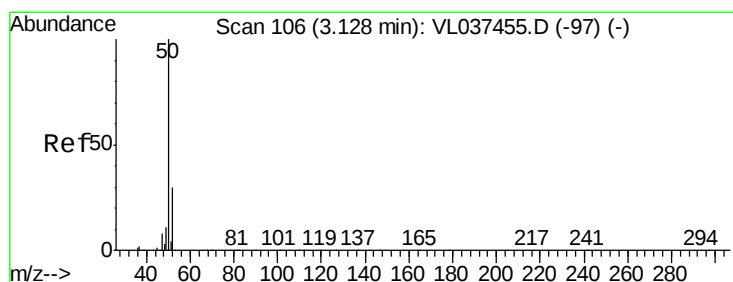
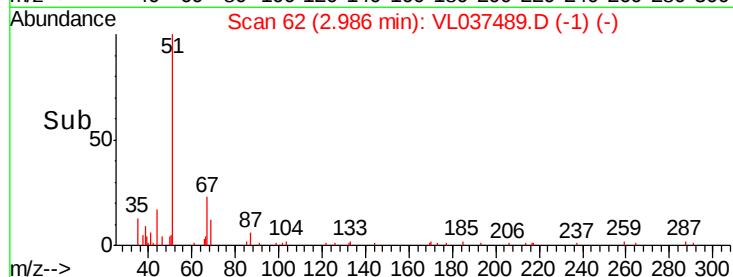
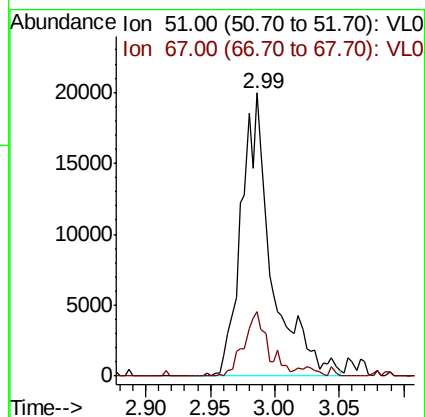
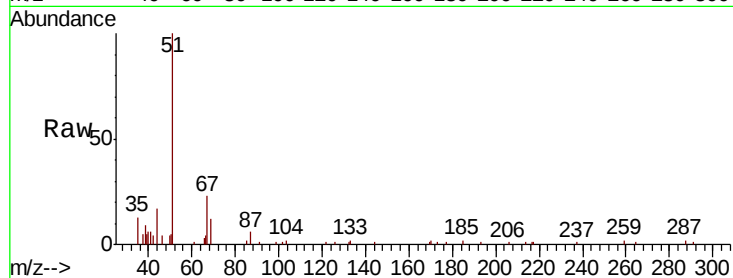




#3  
Chlorodifluoromethane  
Concen: 0.129 ppbv  
RT: 2.99 min Scan# 62  
Delta R.T. 0.01 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

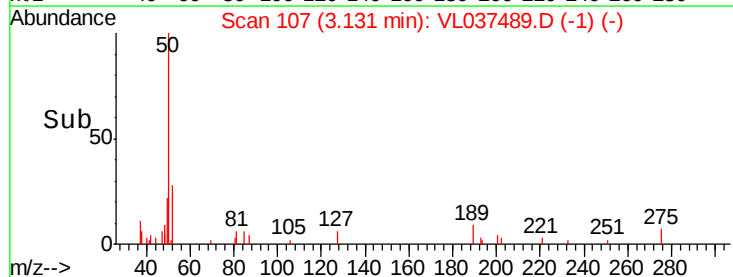
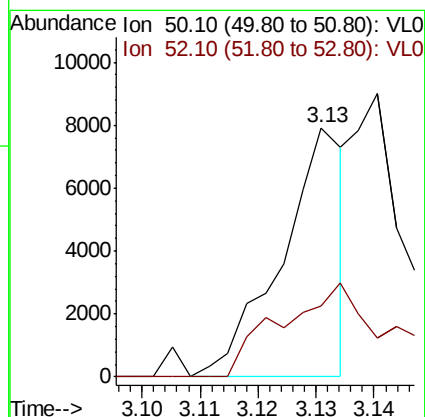
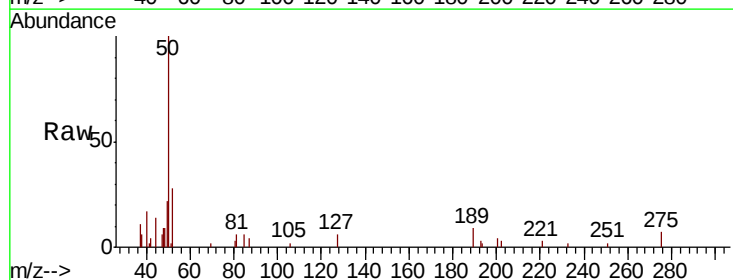
Instrument :  
MSVOA\_L  
ClientSampleId :

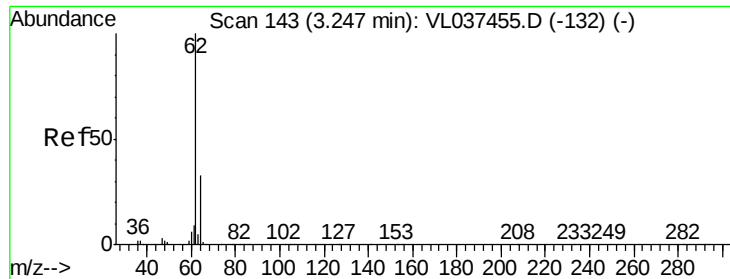
Tot Ion: 51 Resp: 32583  
Ion Ratio Lower Upper  
51 100  
67 20.8 14.2 21.2



#4  
Chloromethane  
Concen: 0.066 ppbv  
RT: 3.13 min Scan# 107  
Delta R.T. 0.00 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

Tgt Ion: 50 Resp: 5950  
Ion Ratio Lower Upper  
50 100  
52 28.4 24.0 36.0





#5

Vinyl Chloride

Concen: 0.108 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

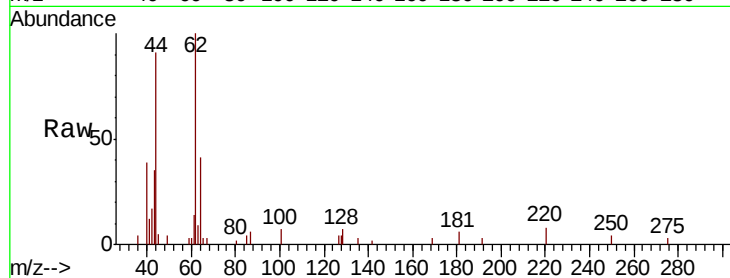
ClientSampled :

Tot Ion: 62 Resp: 10030

Ion Ratio Lower Upper

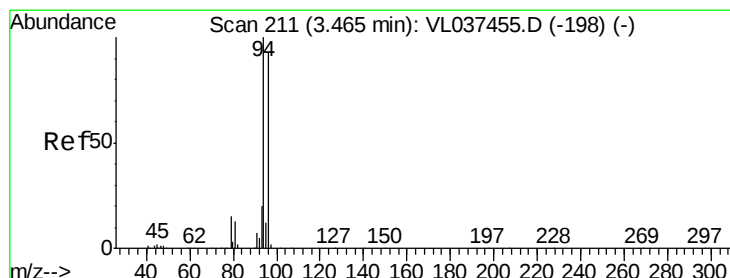
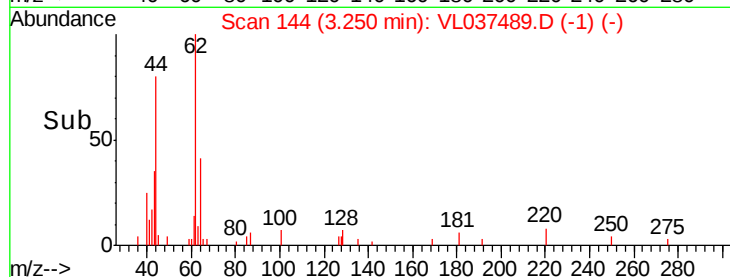
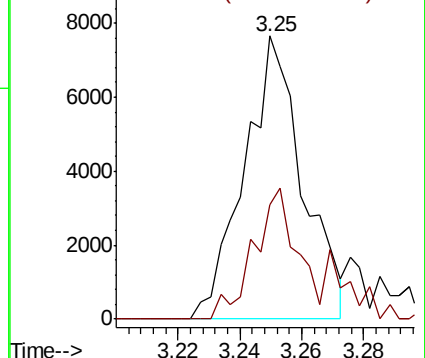
62 100

64 40.5 26.5 39.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.061 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.01 min

Lab File: VL037489.D

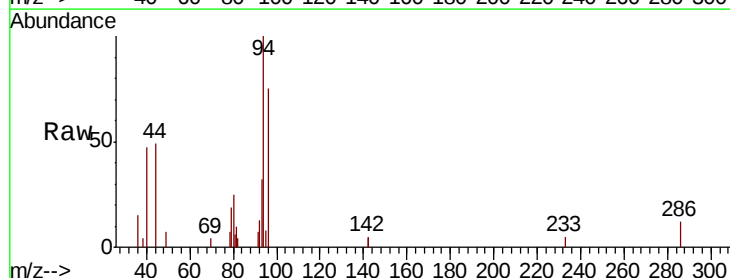
Acq: 18 Aug 2021 13:35

Tgt Ion: 94 Resp: 3106

Ion Ratio Lower Upper

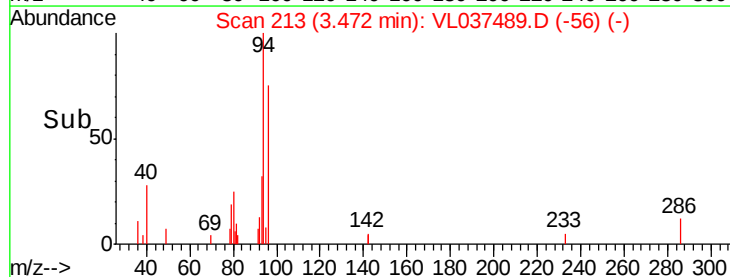
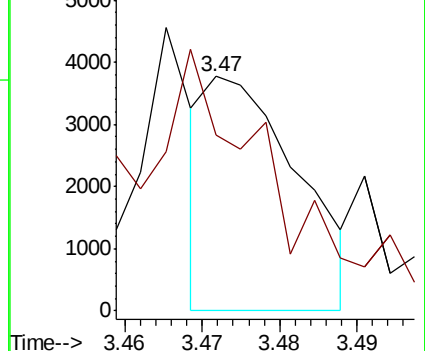
94 100

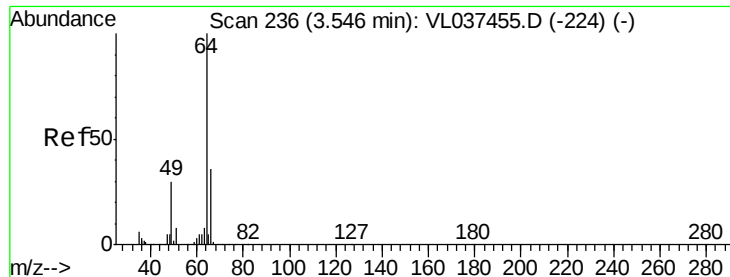
96 80.4 74.5 111.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.103 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

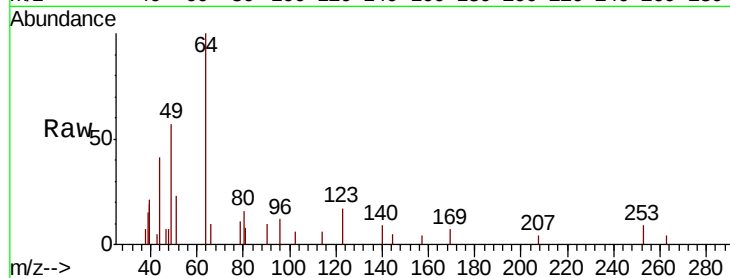
ClientSampled :

Tot Ion: 64 Resp: 3249

Ion Ratio Lower Upper

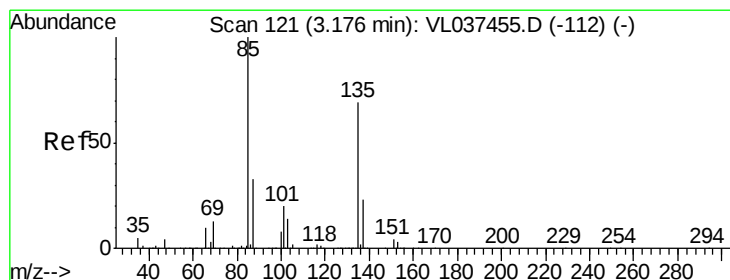
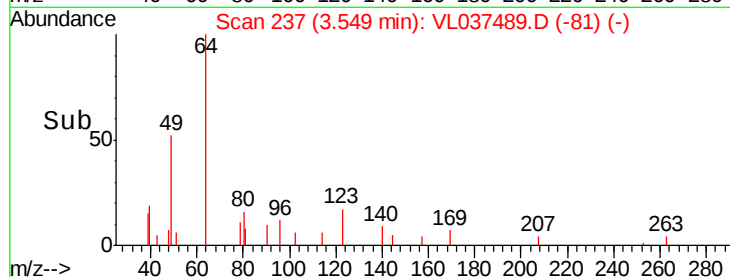
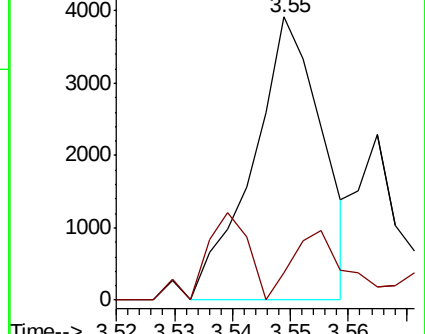
64 100

66 9.6 28.6 43.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.124 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.01 min

Lab File: VL037489.D

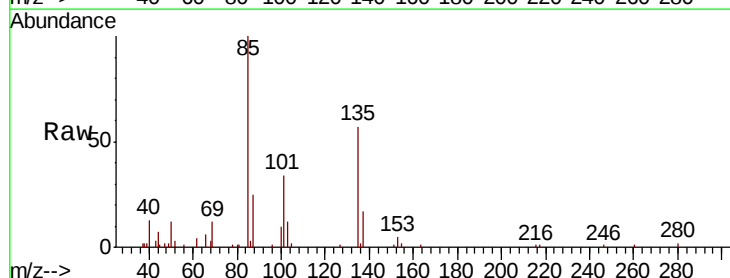
Acq: 18 Aug 2021 13:35

Tgt Ion: 85 Resp: 27155

Ion Ratio Lower Upper

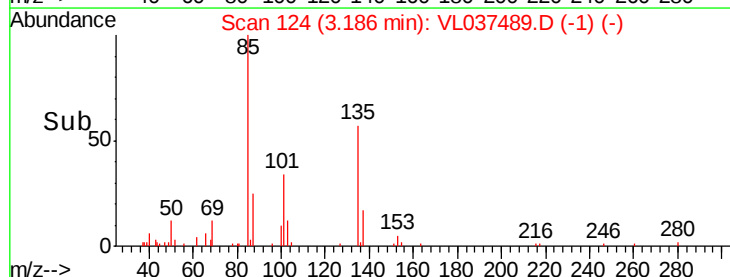
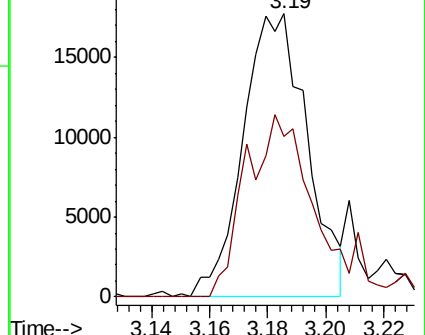
85 100

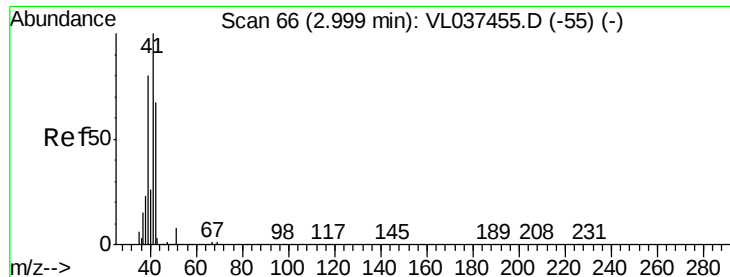
135 72.2 58.8 88.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.050 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.00 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

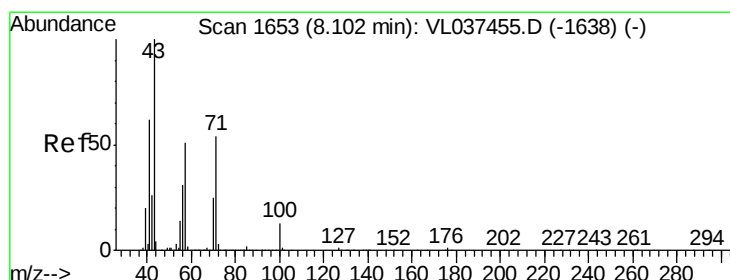
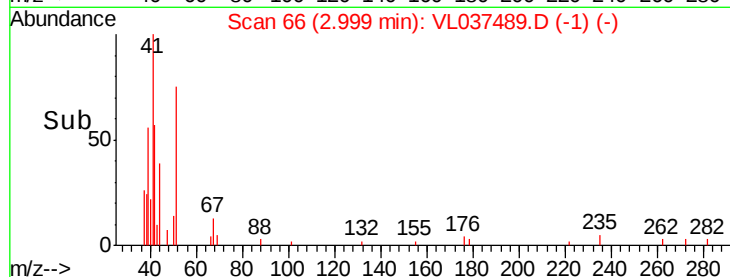
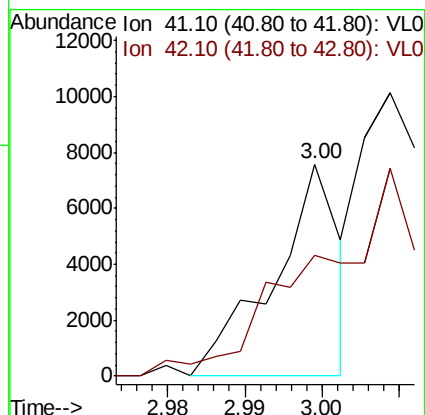
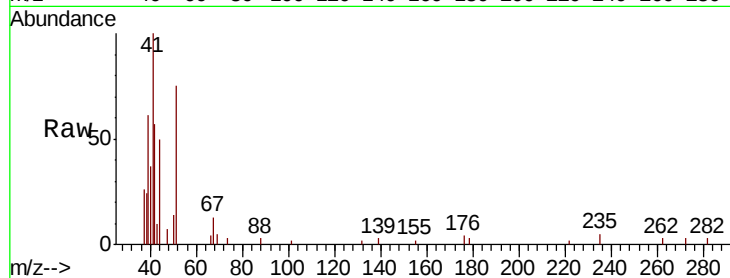
ClientSampleId :

Tot Ion: 41 Resp: 4502

Ion Ratio Lower Upper

41 100

42 0.0 53.7 80.5#



#10

Heptane

Concen: 0.058 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL037489.D

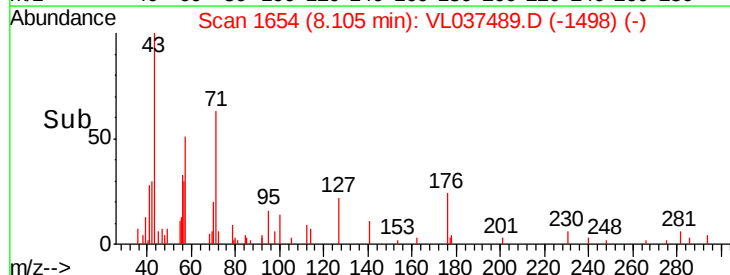
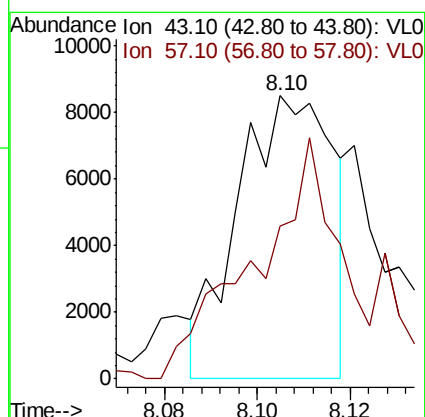
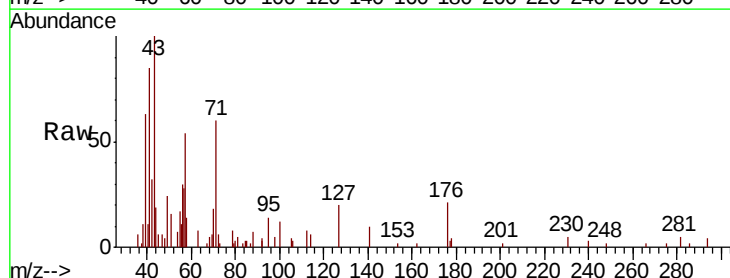
Acq: 18 Aug 2021 13:35

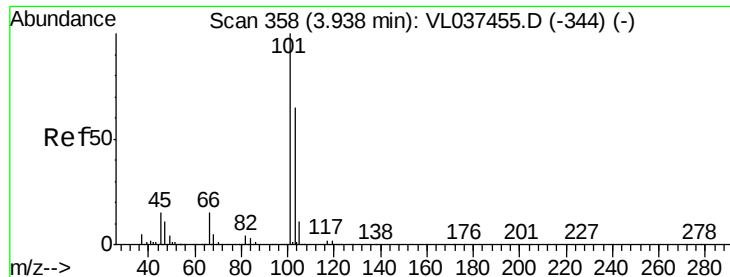
Tgt Ion: 43 Resp: 12153

Ion Ratio Lower Upper

43 100

57 99.6 41.0 61.6#

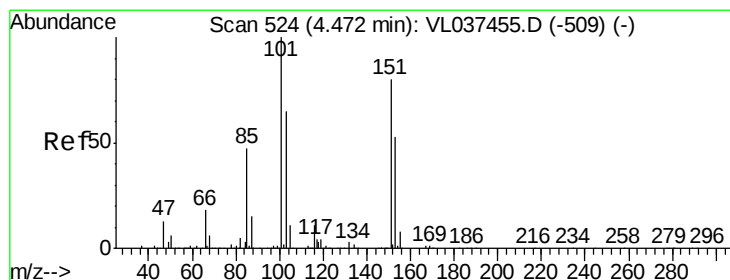
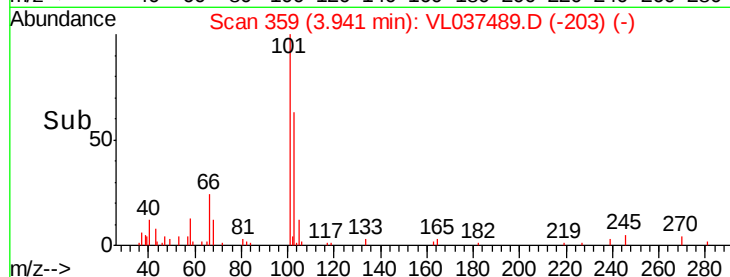
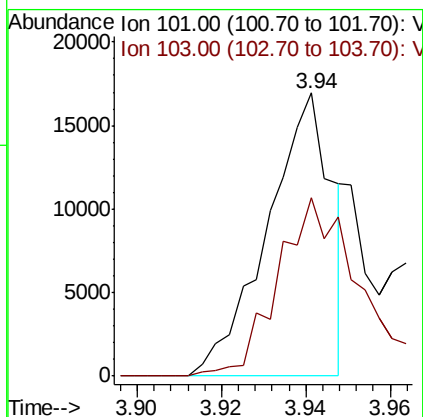
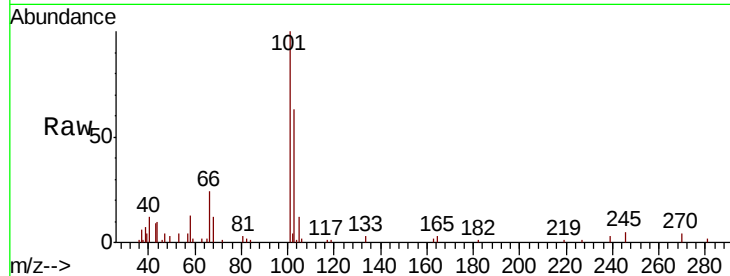




#11  
 Trichlorofluoromethane  
 Concen: 0.091 ppbv  
 RT: 3.94 min Scan# 359  
 Delta R.T. 0.00 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

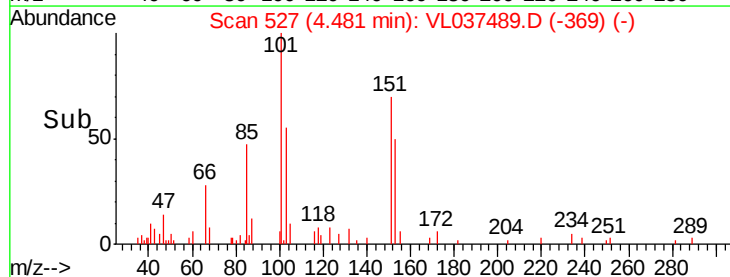
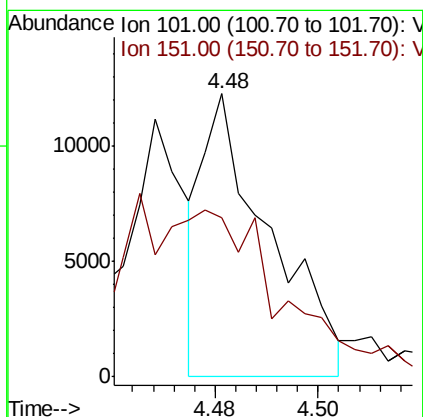
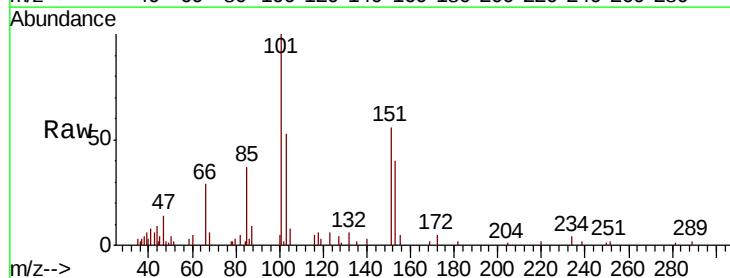
Instrument :  
 MSVOA\_L  
 ClientSampleId :

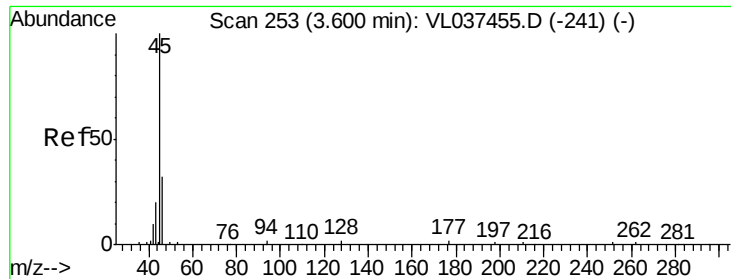
Tot Ion:101 Resp: 18028  
 Ion Ratio Lower Upper  
 101 100  
 103 63.1 51.8 77.6



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.076 ppbv  
 RT: 4.48 min Scan# 527  
 Delta R.T. 0.01 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

Tgt Ion:101 Resp: 11076  
 Ion Ratio Lower Upper  
 101 100  
 151 0.0 63.7 95.5#





#13

Ethanol

Concen: 0.040 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

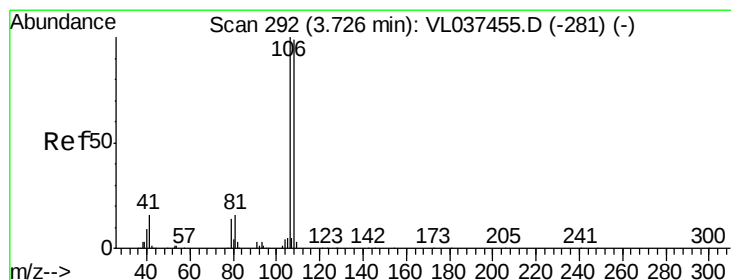
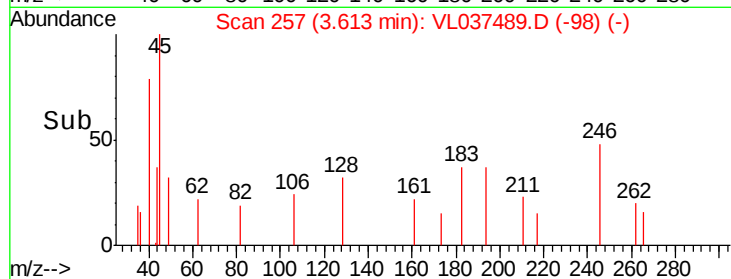
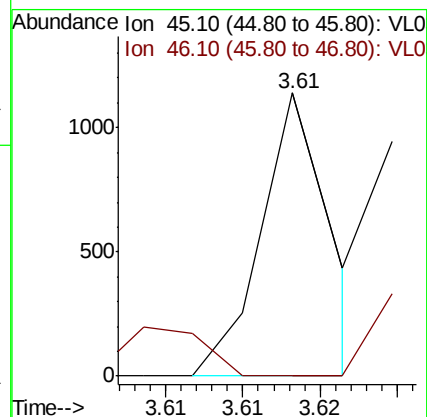
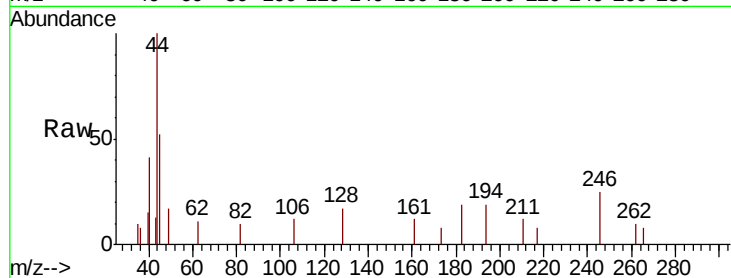
ClientSampleId :

Tot Ion: 45 Resp: 353

Ion Ratio Lower Upper

45 100

46 0.0 14.1 56.5#



#14

Bromoethene

Concen: 0.108 ppbv

RT: 3.74 min Scan# 295

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

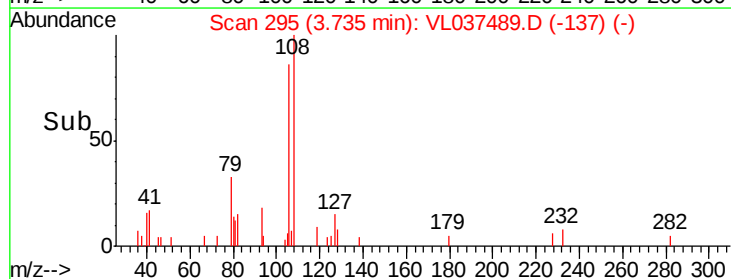
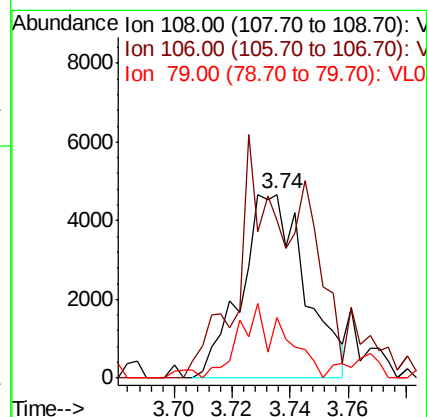
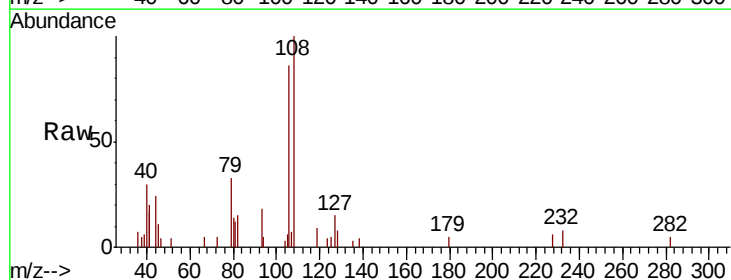
Tgt Ion: 108 Resp: 7146

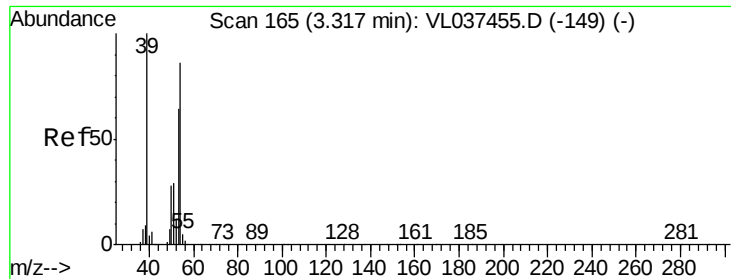
Ion Ratio Lower Upper

108 100

106 145.9 85.8 128.8#

79 37.8 12.6 18.8#





#16

1,3-Butadiene

Concen: 0.120 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.00 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

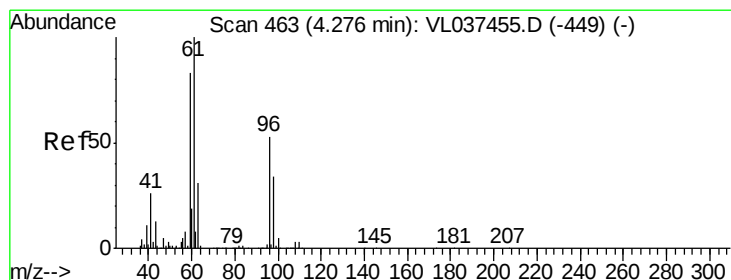
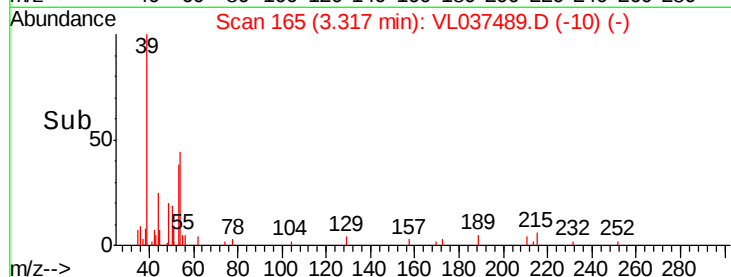
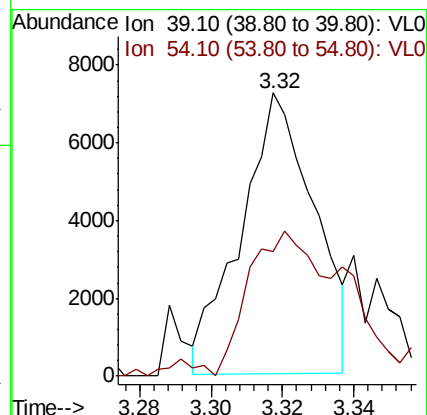
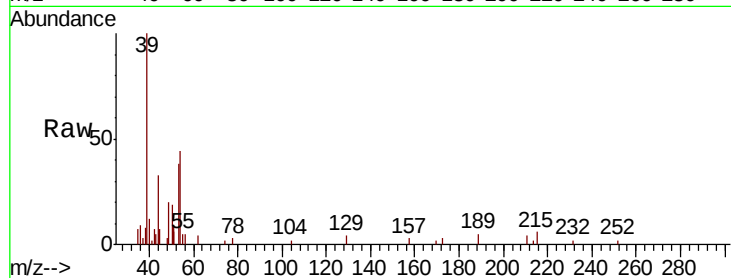
ClientSampled :

Tot Ion: 39 Resp: 10318

Ion Ratio Lower Upper

39 100

54 83.2 63.7 95.5



#18

1,1-Dichloroethene

Concen: 0.077 ppbv

RT: 4.28 min Scan# 465

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

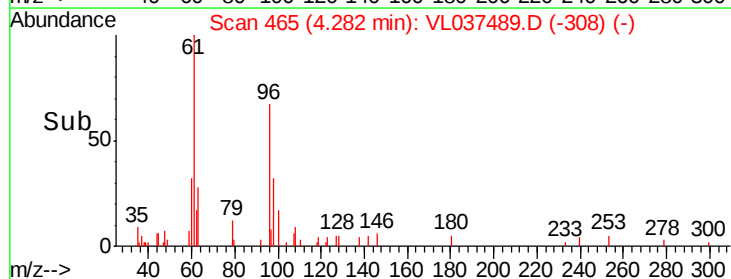
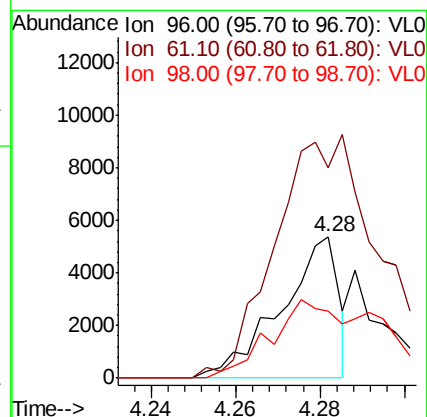
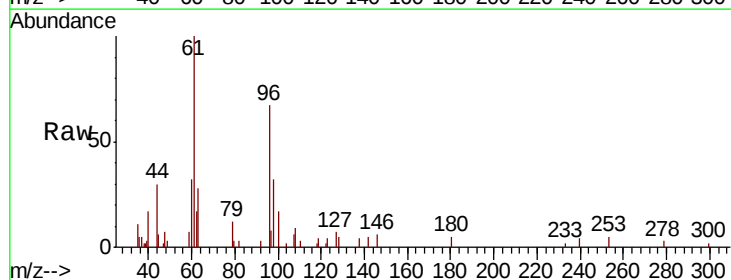
Tgt Ion: 96 Resp: 5107

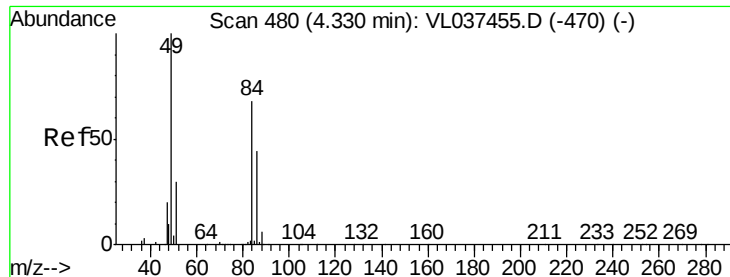
Ion Ratio Lower Upper

96 100

61 148.6 151.1 226.7#

98 47.3 51.8 77.8#

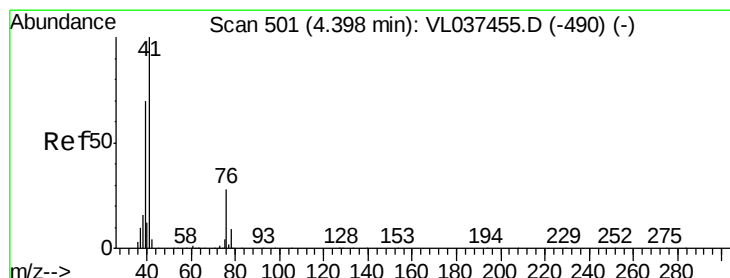
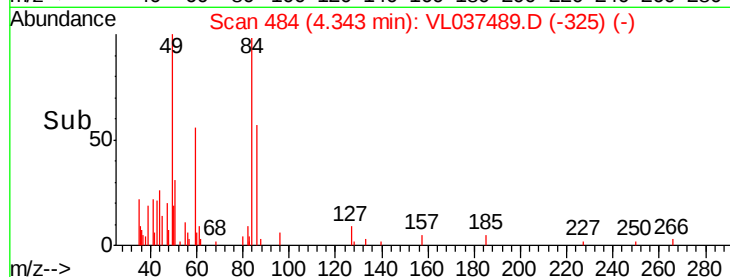
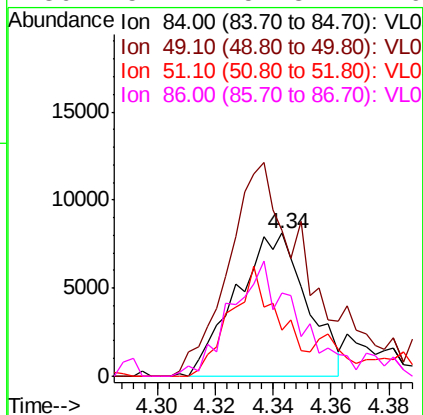
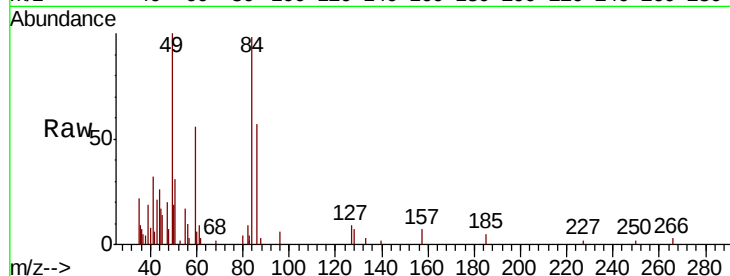




#20  
Methylene Chloride  
Concen: 0.204 ppbv  
RT: 4.34 min Scan# 484  
Delta R.T. 0.01 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

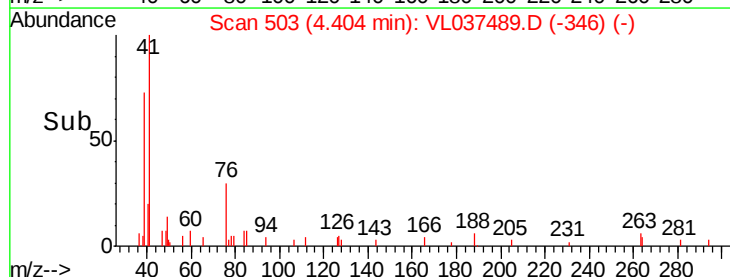
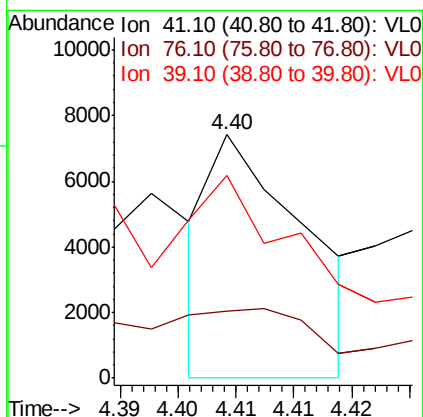
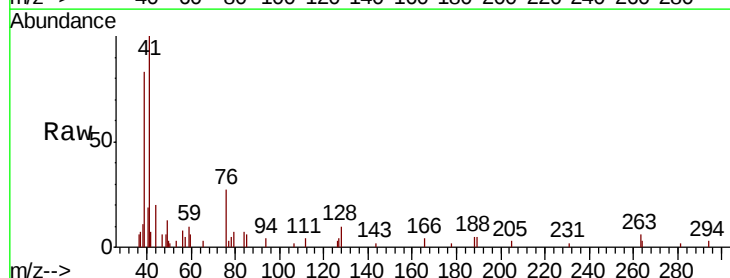
Instrument :  
MSVOA\_L  
ClientSampled :

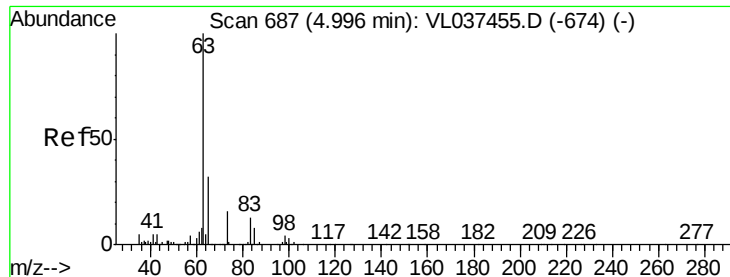
Tot Ion: 84 Resp: 13696  
Ion Ratio Lower Upper  
84 100  
49 84.9 118.2 177.2#  
51 31.8 36.6 55.0#  
86 51.1 51.8 77.6#



#21  
Allyl Chloride  
Concen: 0.038 ppbv  
RT: 4.40 min Scan# 503  
Delta R.T. 0.01 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

Tgt Ion: 41 Resp: 4166  
Ion Ratio Lower Upper  
41 100  
76 92.6 21.8 32.6#  
39 260.6 56.8 85.2#





#24

1,1-Dichloroethane

Concen: 0.032 ppbv

RT: 5.01 min Scan# 690

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

ClientSampleId :

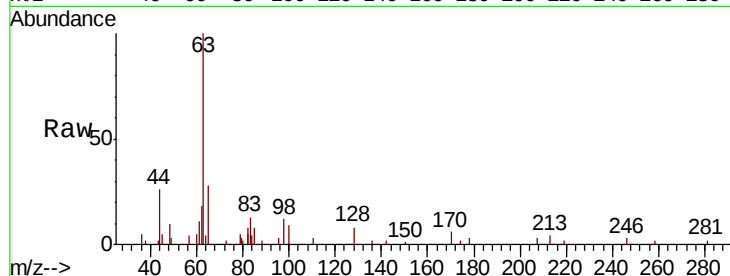
Tot Ion: 63 Resp: 4579

Ion Ratio Lower Upper

63 100

98 18.9 2.1 6.3#

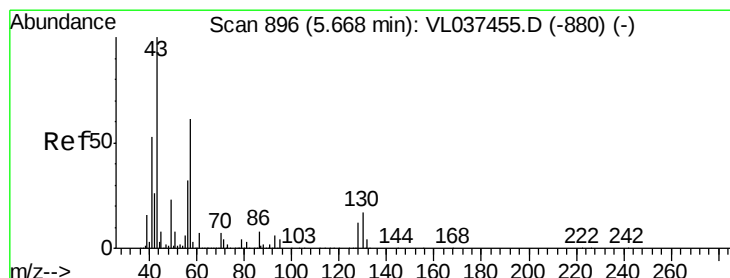
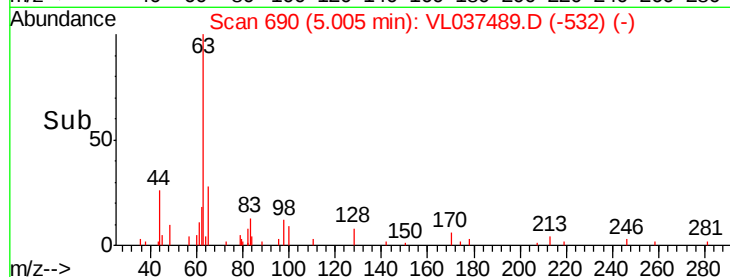
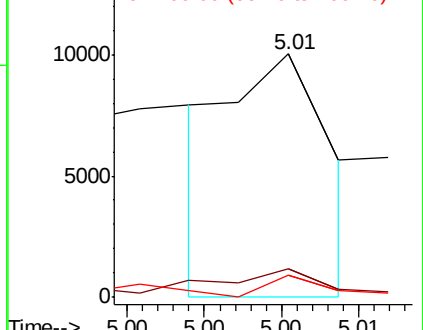
100 14.1 1.6 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#26

Hexane

Concen: 0.067 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Tgt Ion: 57 Resp: 11123

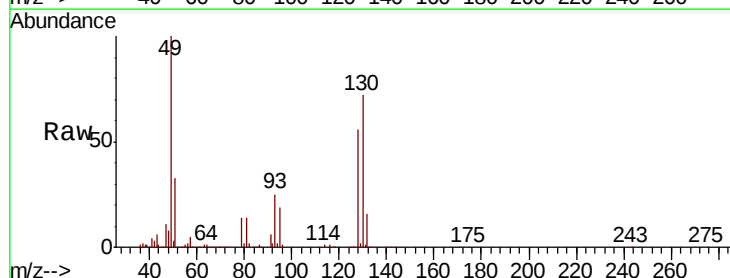
Ion Ratio Lower Upper

57 100

41 197.7 72.3 108.5#

43 0.0 172.3 258.5#

56 114.6 42.8 64.2#

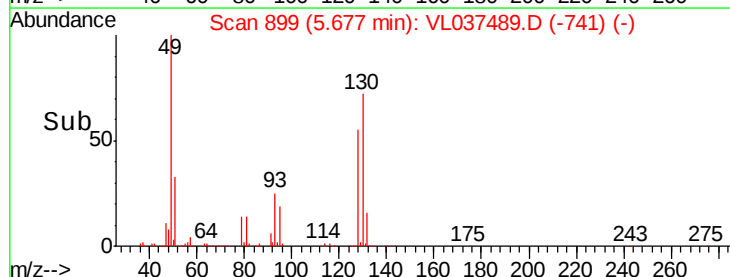
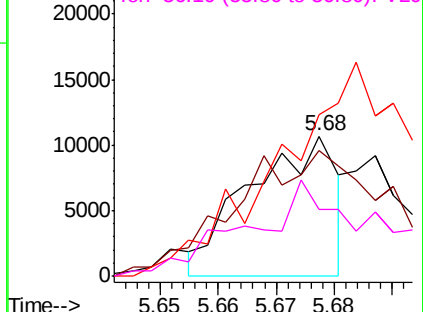


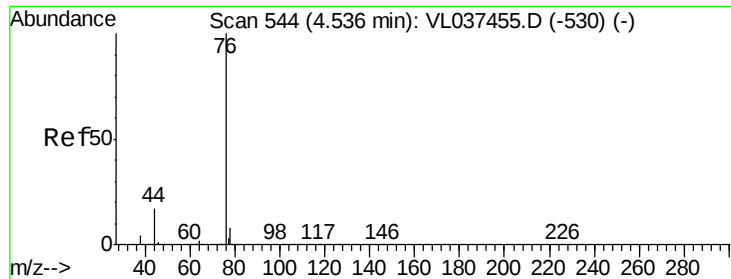
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.052 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.00 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

ClientSampleId :

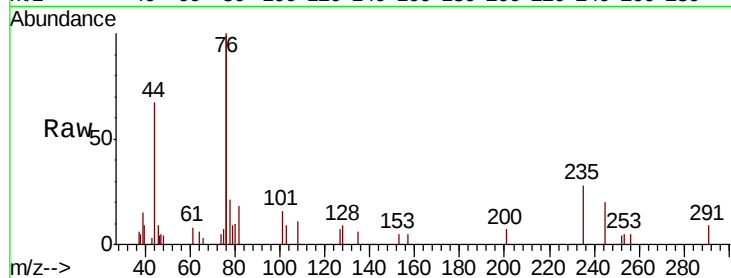
Tot Ion: 76 Resp: 7771

Ion Ratio Lower Upper

76 100

44 0.0 13.9 20.9#

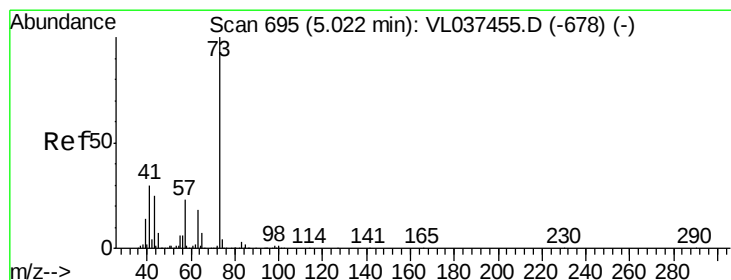
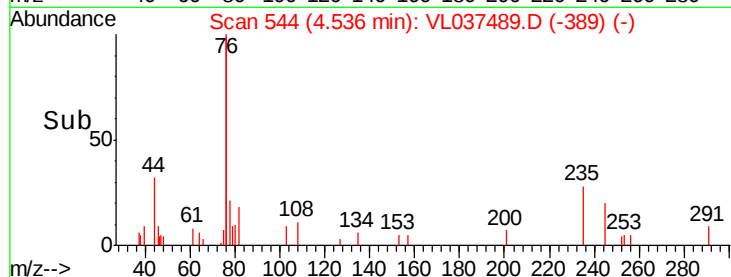
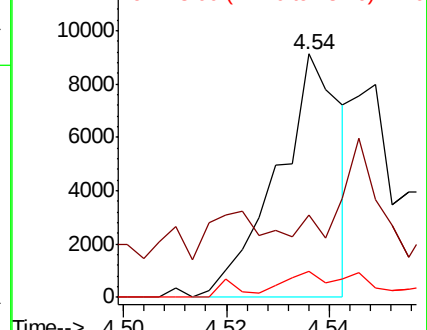
78 0.0 7.9 11.9#



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: 0.035 ppbv

RT: 5.04 min Scan# 702

Delta R.T. 0.02 min

Lab File: VL037489.D

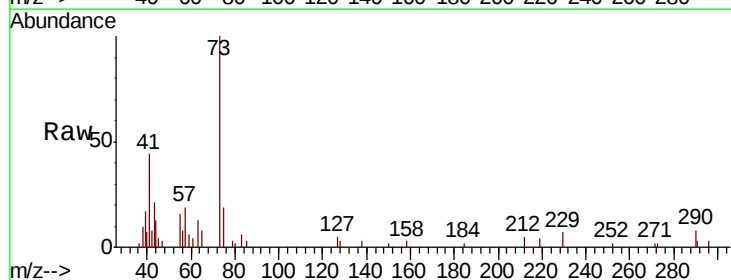
Acq: 18 Aug 2021 13:35

Tgt Ion: 73 Resp: 5671

Ion Ratio Lower Upper

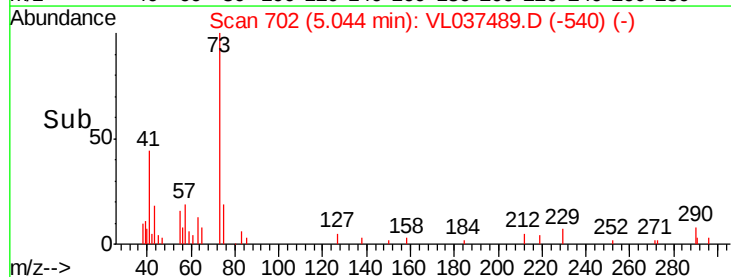
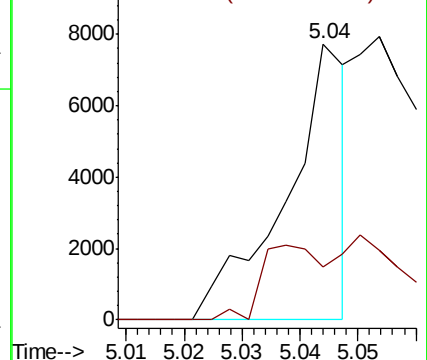
73 100

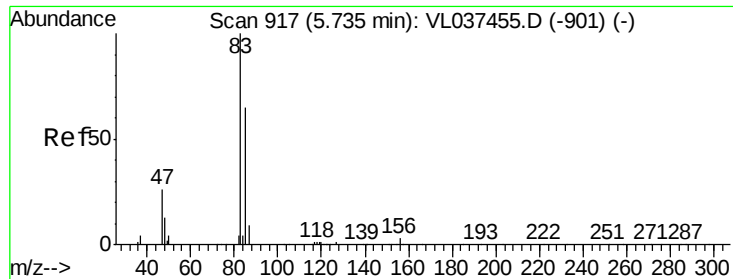
57 0.0 19.4 29.2#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

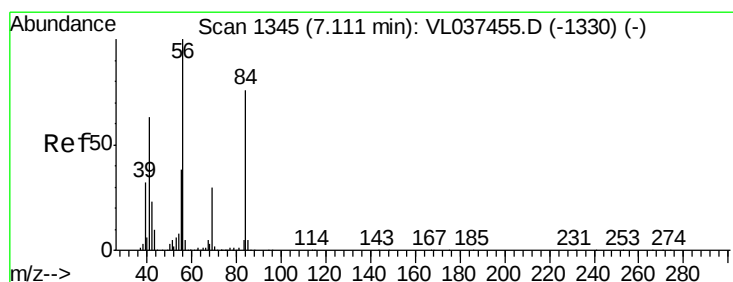
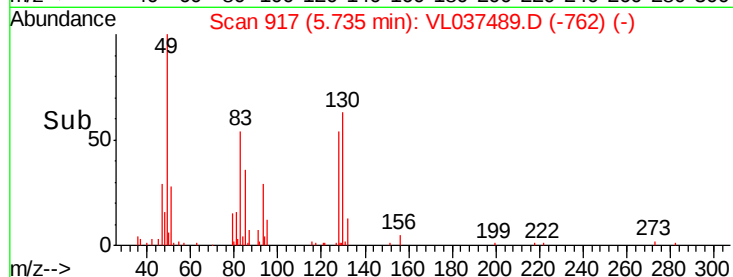
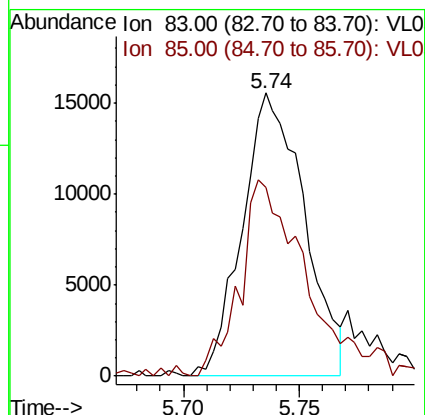
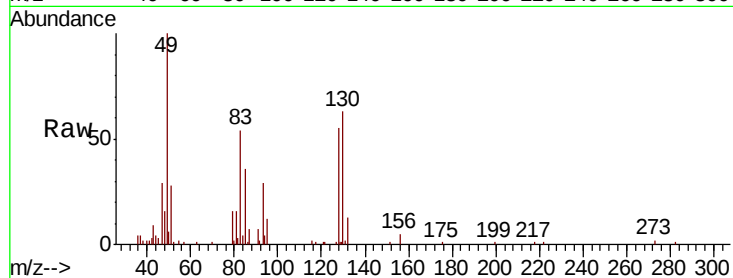




#29  
Chloroform  
Concen: 0.123 ppbv  
RT: 5.74 min Scan# 917  
Delta R.T. -0.00 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

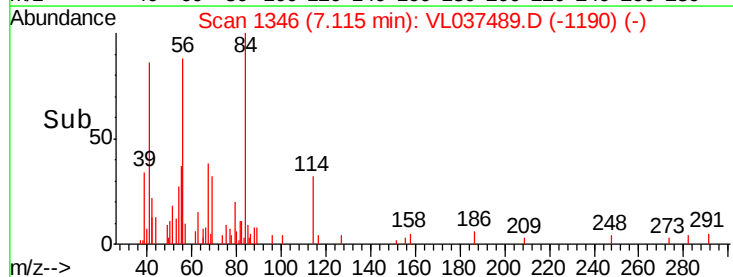
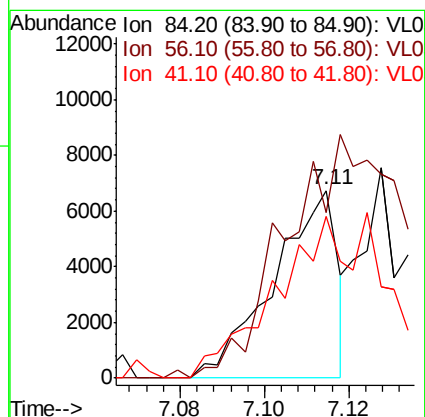
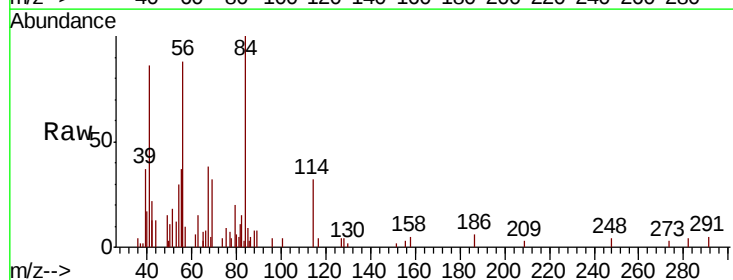
Instrument :  
MSVOA\_L  
ClientSampled :

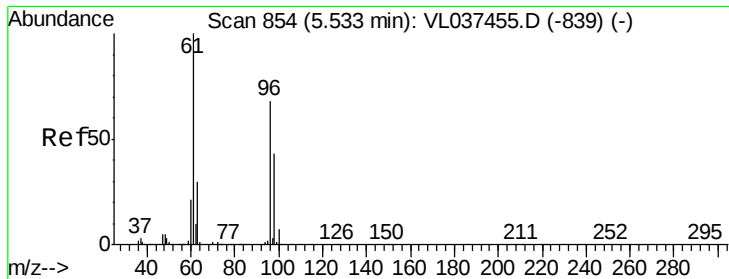
Tot Ion: 83 Resp: 28994  
Ion Ratio Lower Upper  
83 100  
85 66.4 52.3 78.5



#30  
Cyclohexane  
Concen: 0.051 ppbv  
RT: 7.11 min Scan# 1346  
Delta R.T. 0.00 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

Tgt Ion: 84 Resp: 7063  
Ion Ratio Lower Upper  
84 100  
56 0.0 110.6 165.8#  
41 0.0 67.0 100.6#



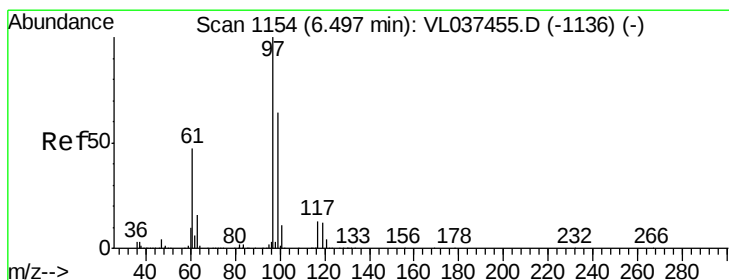
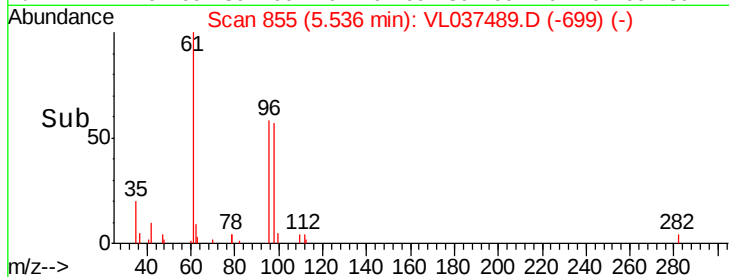
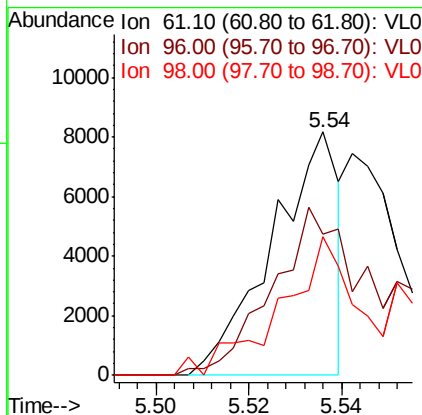
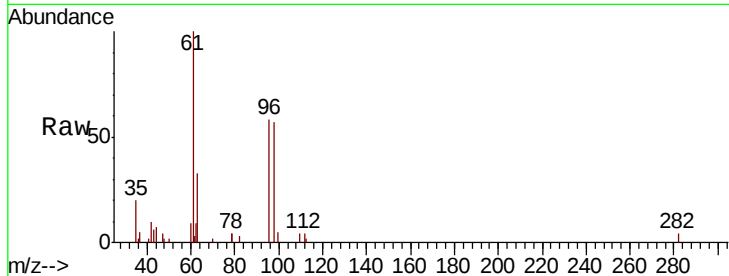


#31

cis-1,2-Dichloroethene  
 Concen: 0.054 ppbv  
 RT: 5.54 min Scan# 855  
 Delta R.T. 0.00 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

Instrument :  
 MSVOA\_L  
 ClientSampled :

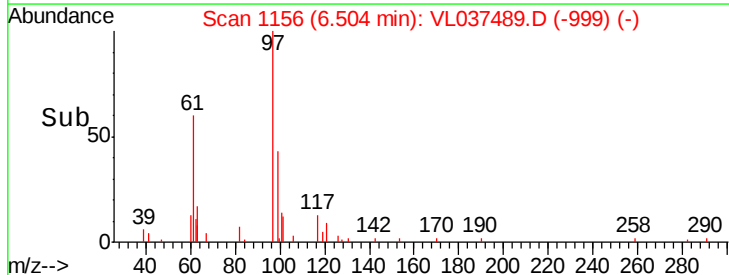
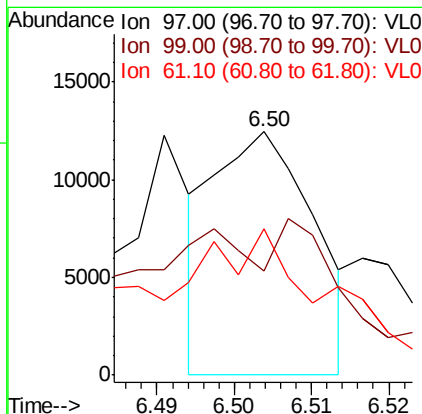
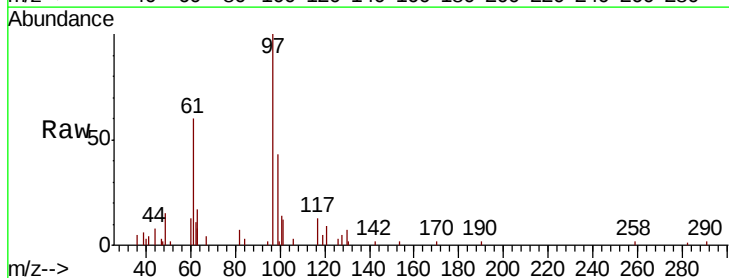
| Tot Ion | 61.10 | Resp: | 8190  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 61      | 100   |       |       |
| 96      | 53.4  | 54.8  | 82.2# |
| 98      | 47.5  | 34.2  | 51.2  |

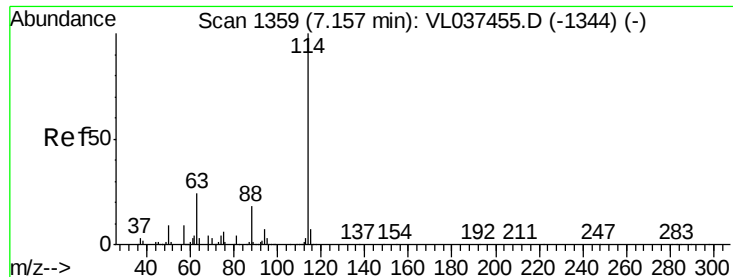


#32

1,1,1-Trichloroethane  
 Concen: 0.048 ppbv  
 RT: 6.50 min Scan# 1156  
 Delta R.T. 0.01 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

| Tgt Ion | 97    | Resp: | 11208 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 97      | 100   |       |       |
| 99      | 157.7 | 51.8  | 77.6# |
| 61      | 122.5 | 39.6  | 59.4# |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

ClientSampleId :

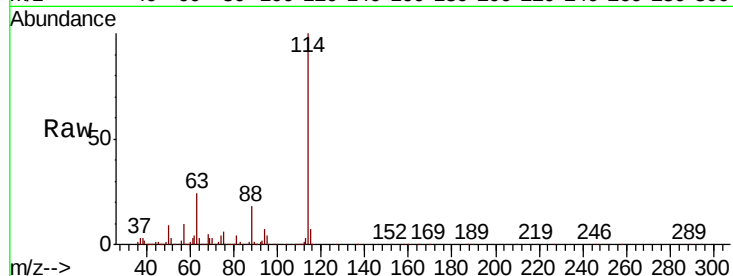
Tot Ion:114 Resp: 4002000

Ion Ratio Lower Upper

114 100

63 24.1 19.3 28.9

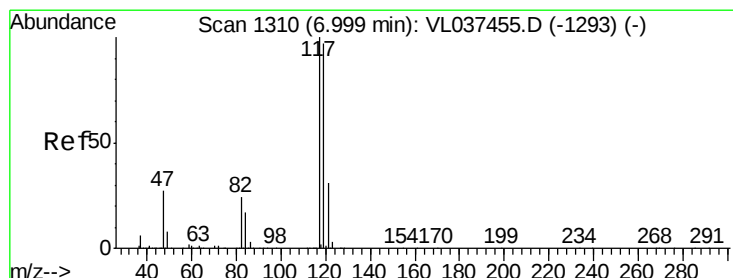
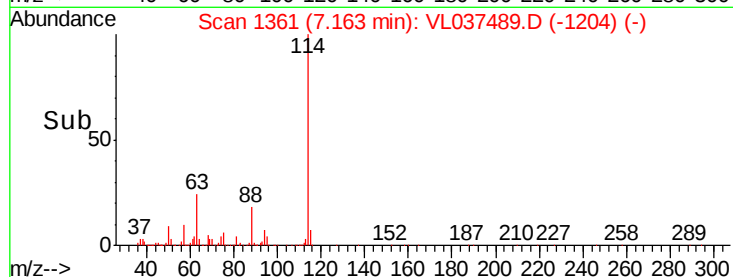
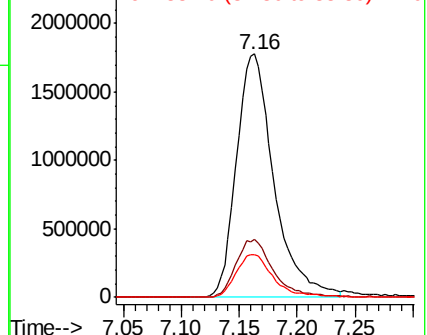
88 18.0 14.2 21.4



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#35

Carbon Tetrachloride

Concen: 0.075 ppbv

RT: 7.01 min Scan# 1313

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

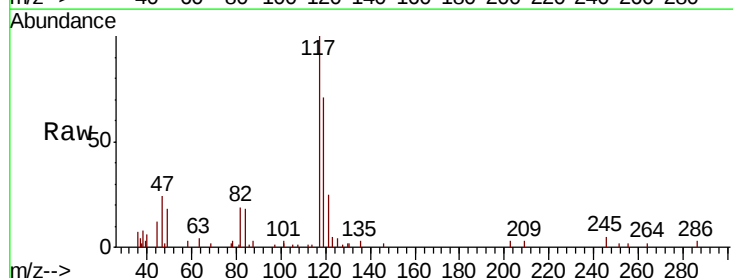
Tgt Ion:117 Resp: 17757

Ion Ratio Lower Upper

117 100

119 71.1 77.3 115.9#

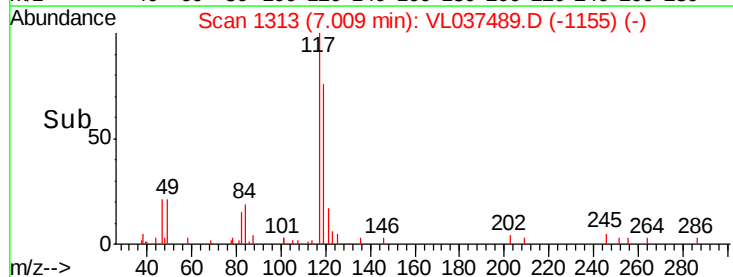
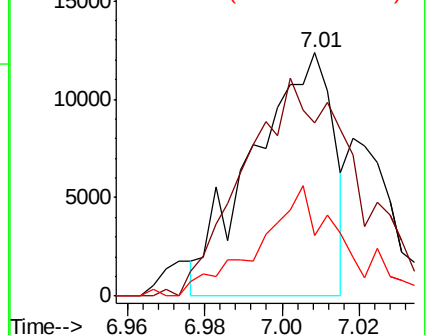
121 22.4 25.2 37.8#

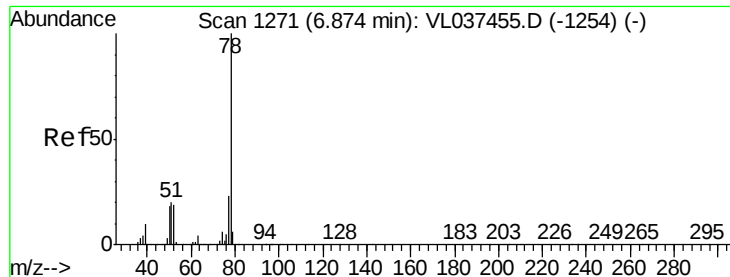


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.047 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :

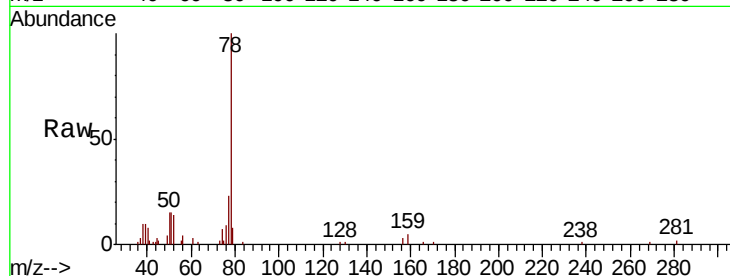
Tot Ion: 78 Resp: 15645

Ion Ratio Lower Upper

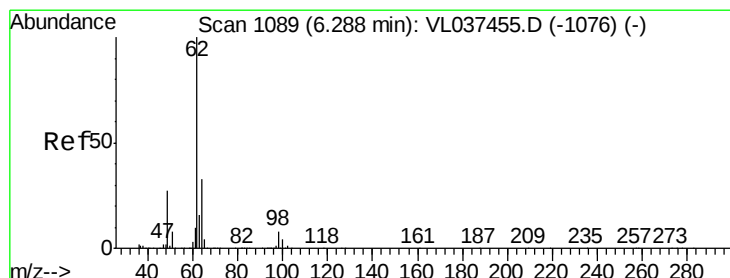
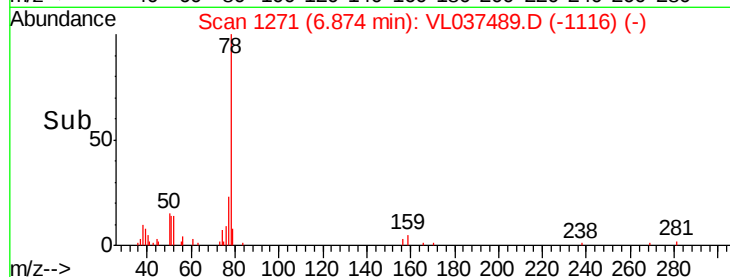
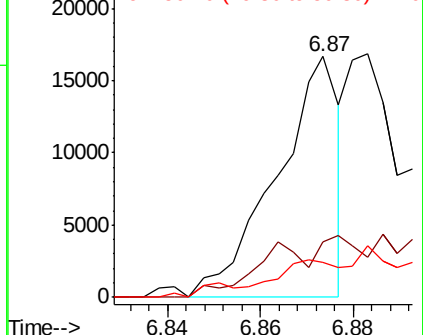
78 100

77 22.9 18.2 27.4

50 14.8 14.6 21.8



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



#37

1,2-Dichloroethane

Concen: 0.045 ppbv

RT: 6.29 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VL037489.D

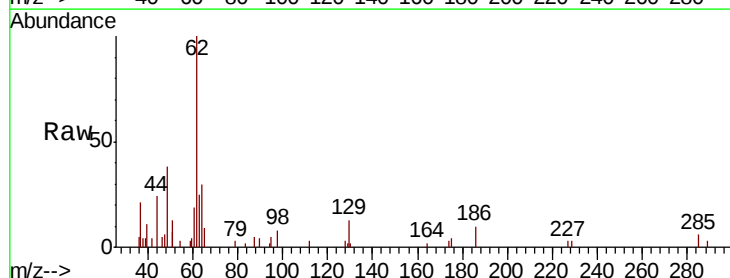
Acq: 18 Aug 2021 13:35

Tgt Ion: 62 Resp: 7523

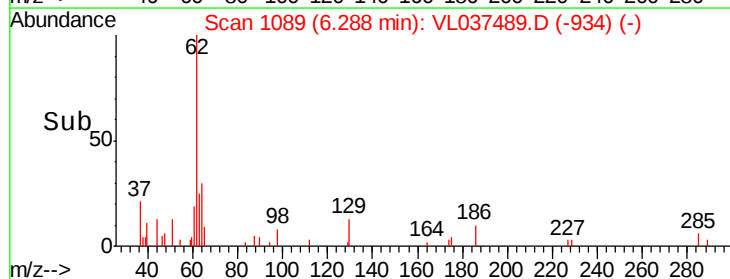
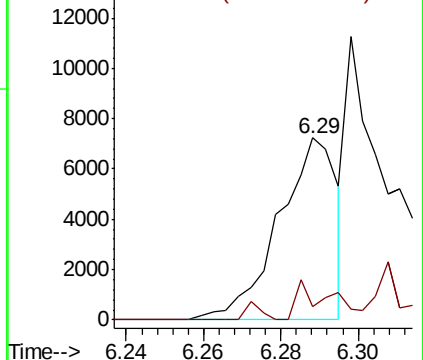
Ion Ratio Lower Upper

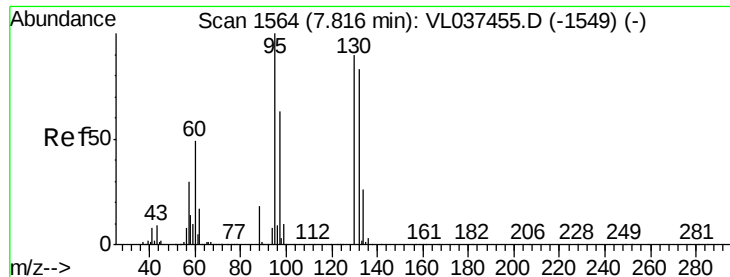
62 100

98 0.0 6.0 9.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.031 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:130 Resp: 4334

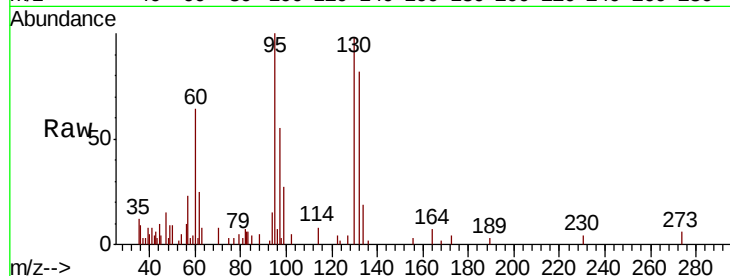
Ion Ratio Lower Upper

130 100

95 65.6 89.2 133.8#

132 12.0 74.0 111.0#

97 25.2 56.6 84.8#

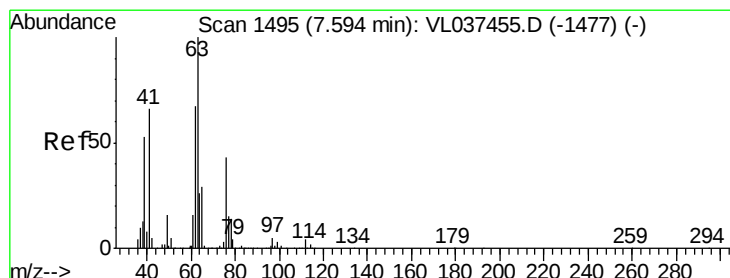
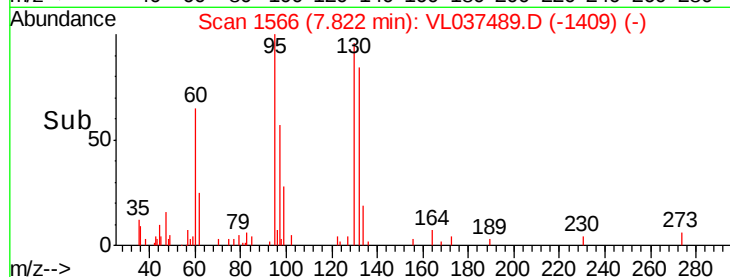
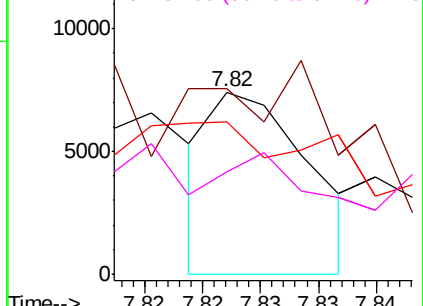


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.077 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.43 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

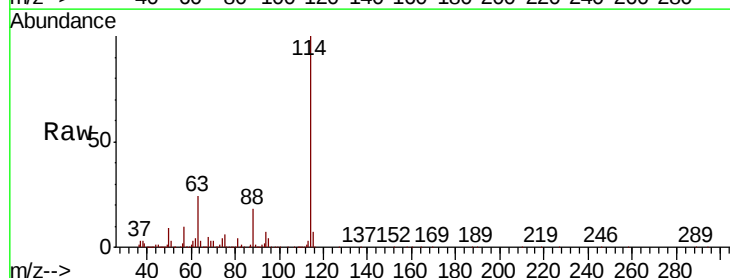
Tgt Ion: 63 Resp: 914894

Ion Ratio Lower Upper

63 100

41 0.2 52.4 78.6#

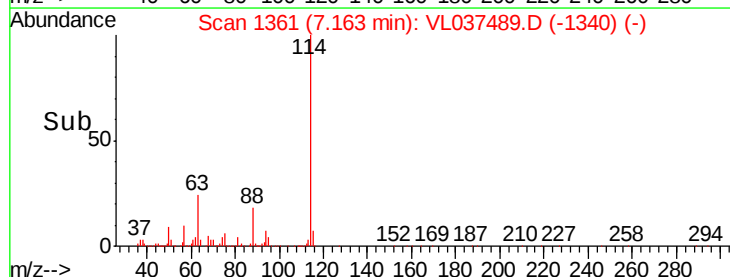
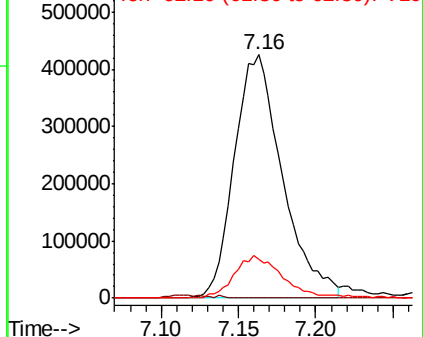
62 15.6 53.6 80.4#

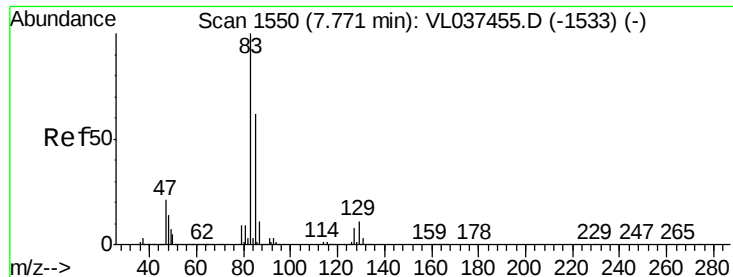


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.060 ppbv

RT: 7.78 min Scan# 1552

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

ClientSampled :

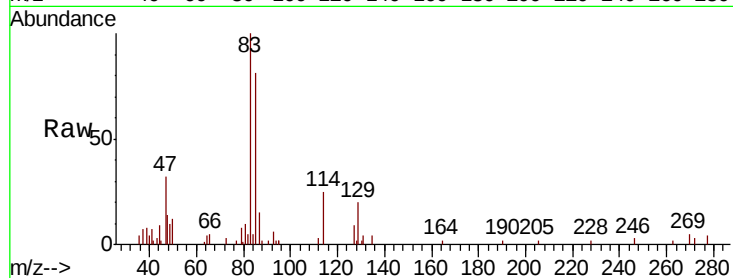
Tot Ion: 83 Resp: 14678

Ion Ratio Lower Upper

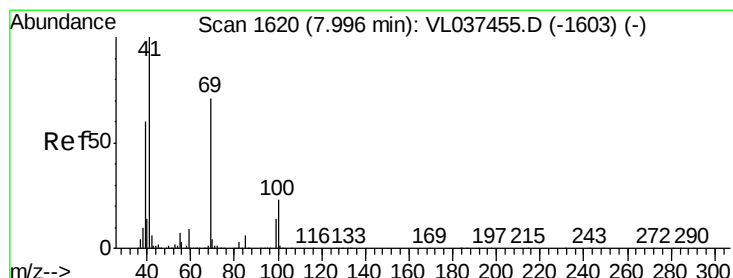
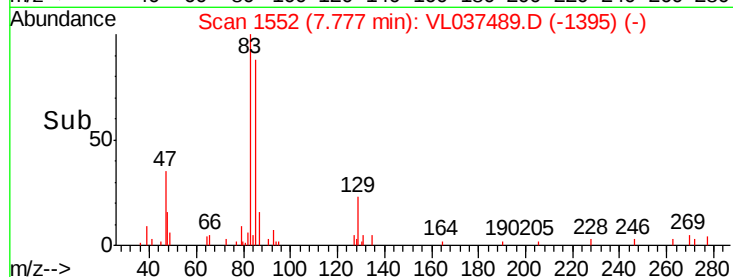
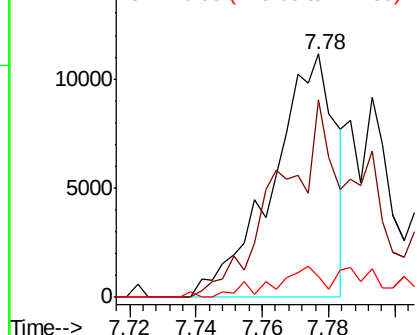
83 100

85 81.2 49.5 74.3#

127 6.4 6.3 9.5



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: 0.037 ppbv

RT: 8.01 min Scan# 1624

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

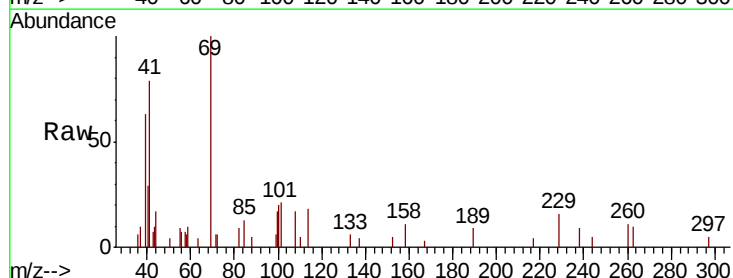
Tgt Ion: 69 Resp: 4382

Ion Ratio Lower Upper

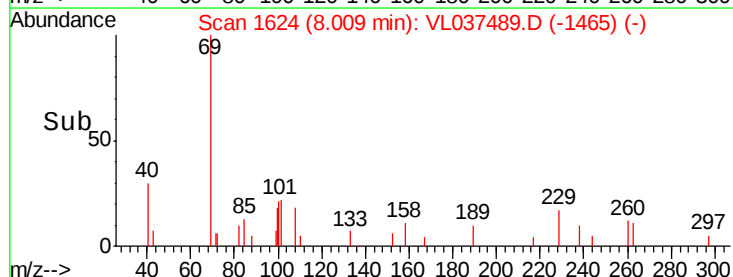
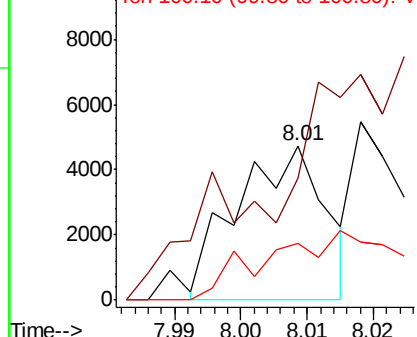
69 100

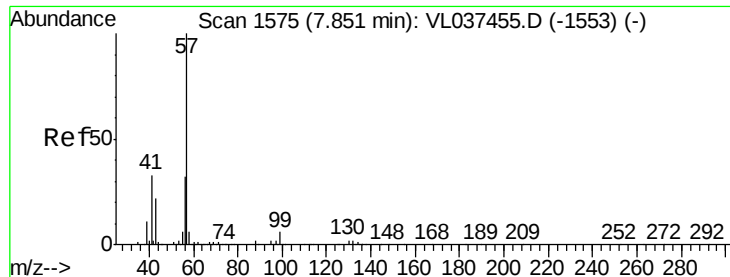
41 0.0 118.6 178.0#

100 0.0 27.4 41.0#



Abundance Ion 69.10 (68.80 to 69.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.057 ppbv

RT: 7.86 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

ClientSampleId :

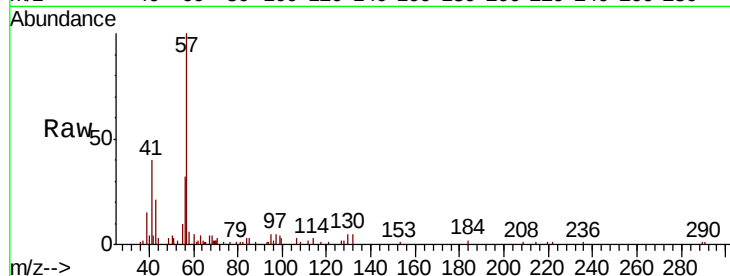
Tot Ion: 57 Resp: 32455

Ion Ratio Lower Upper

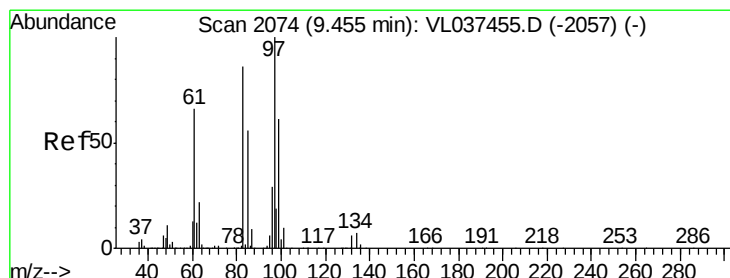
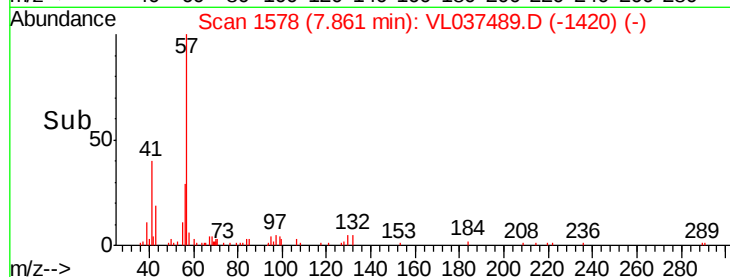
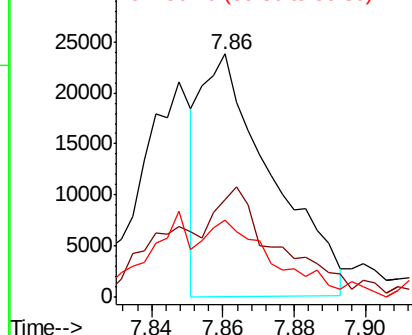
57 100

41 74.3 26.2 39.4#

56 0.0 25.4 38.2#



Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.070 ppbv

RT: 9.46 min Scan# 2075

Delta R.T. 0.00 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Tgt Ion: 97 Resp: 9781

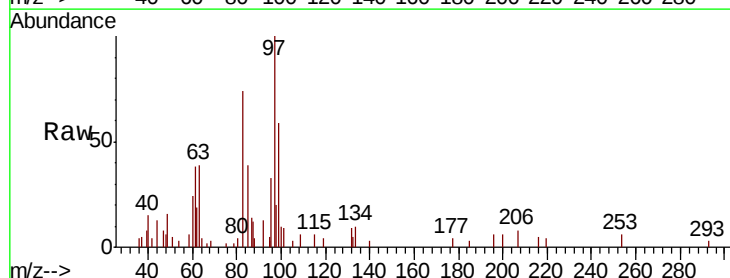
Ion Ratio Lower Upper

97 100

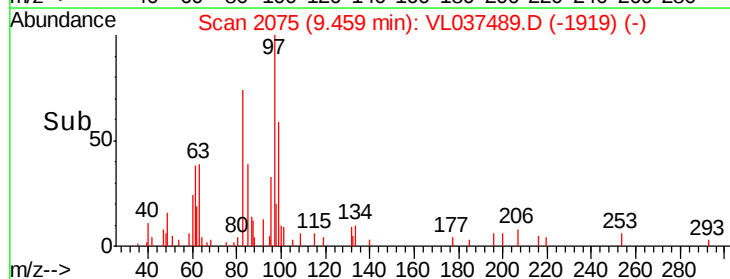
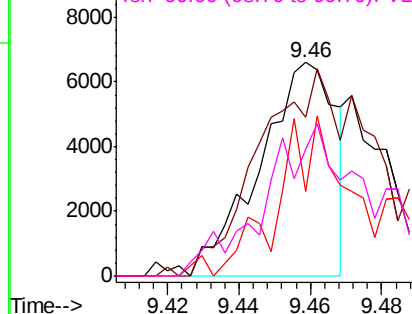
83 74.0 68.7 103.1

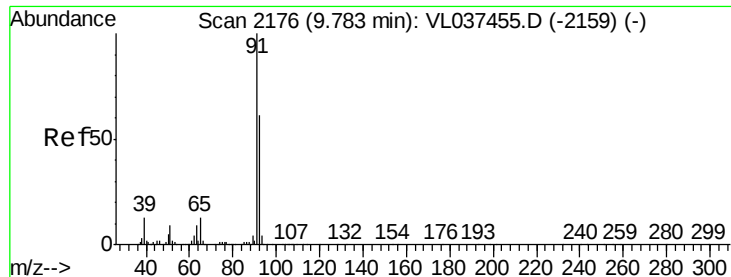
85 34.4 44.7 67.1#

99 52.4 48.6 72.8



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





#53

Toluene

Concen: 0.035 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

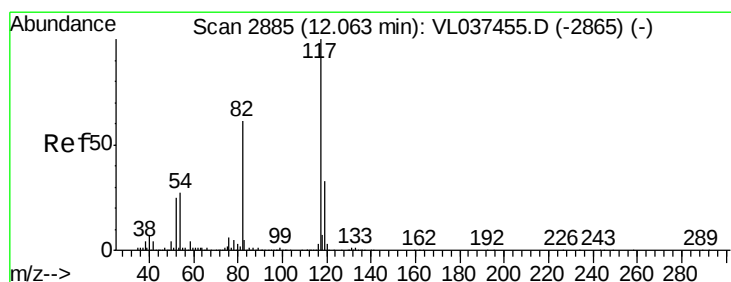
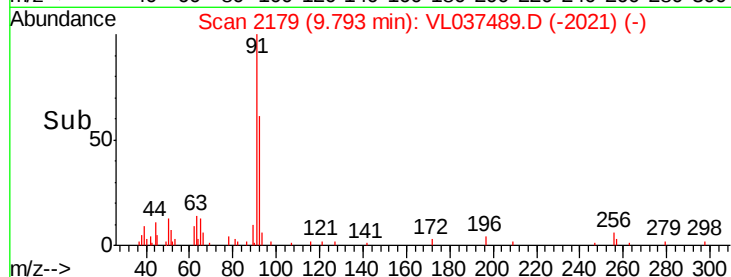
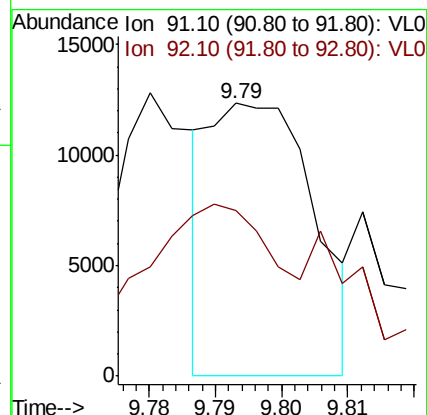
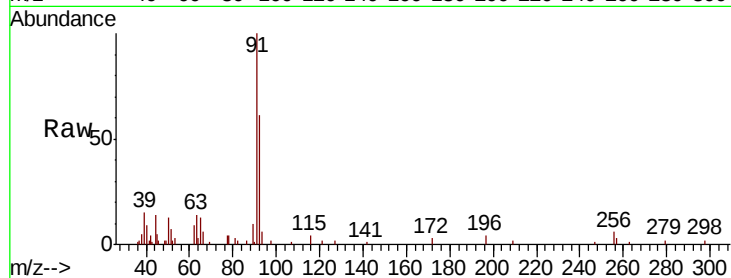
ClientSampled :

Tot Ion: 91 Resp: 13387

Ion Ratio Lower Upper

91 100

92 142.4 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. 0.01 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

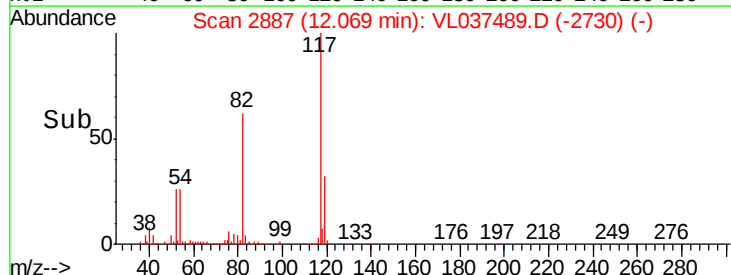
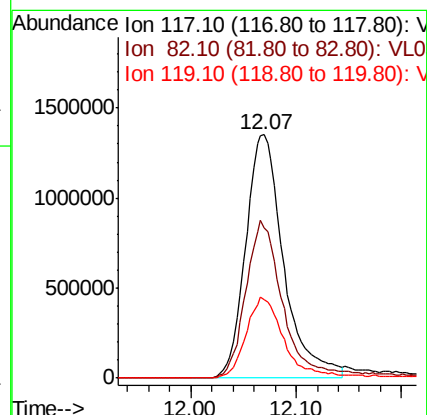
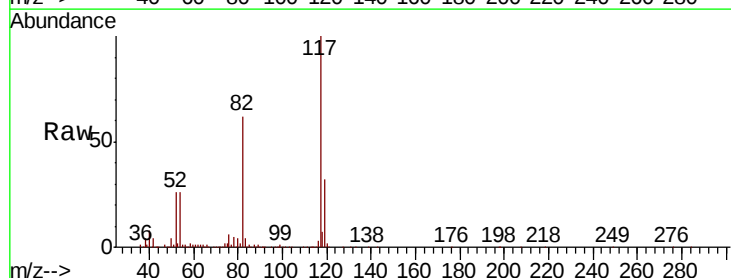
Tgt Ion: 117 Resp: 3395104

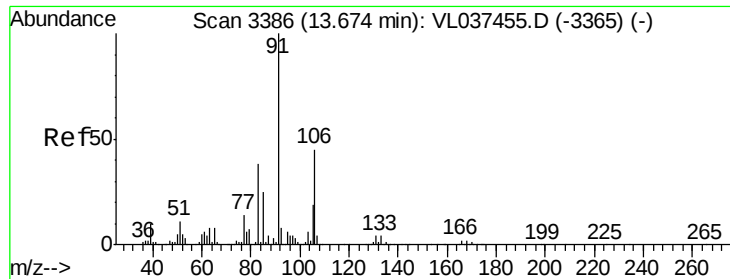
Ion Ratio Lower Upper

117 100

82 66.8 52.9 79.3

119 35.0 24.8 37.2

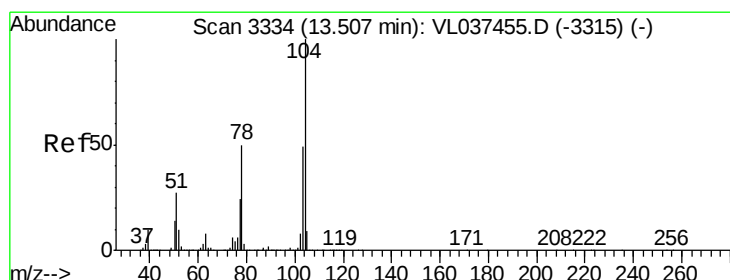
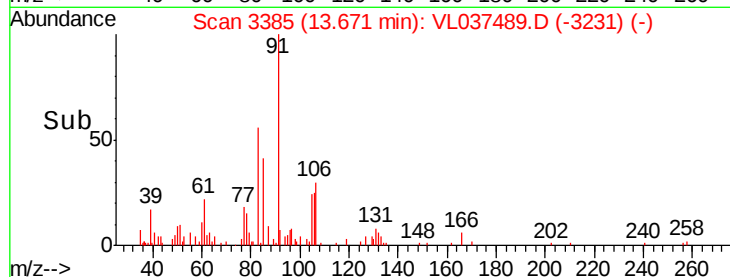
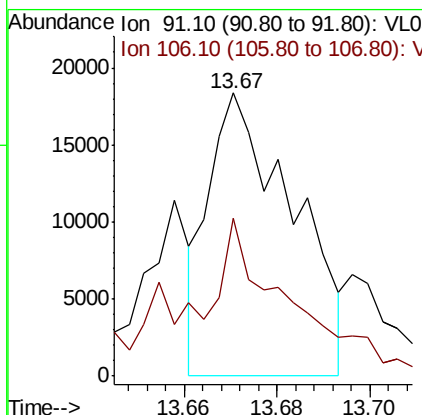
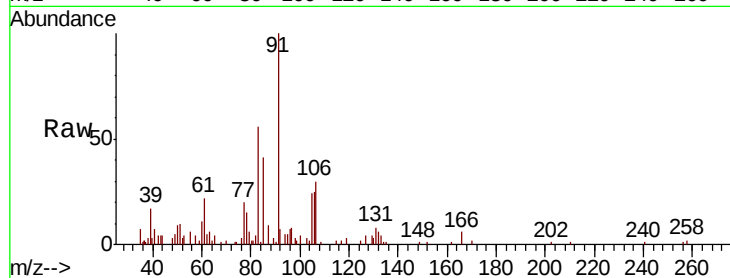




#60  
o-Xylene  
Concen: 0.061 ppbv  
RT: 13.67 min Scan# 3385  
Delta R.T. -0.00 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

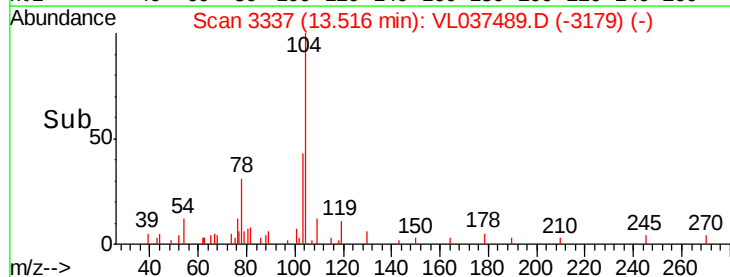
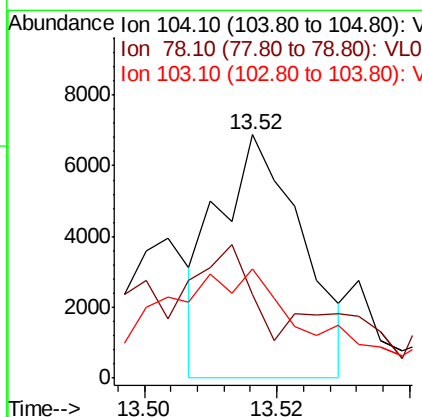
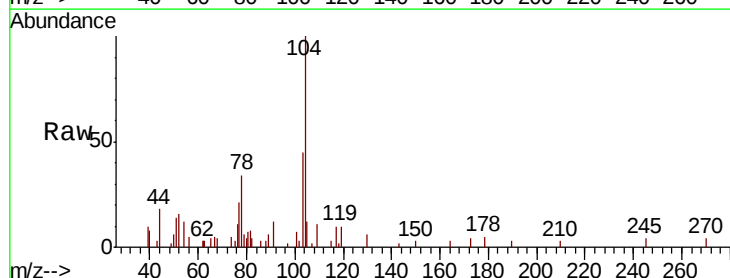
Instrument :  
MSVOA\_L  
ClientSampled :

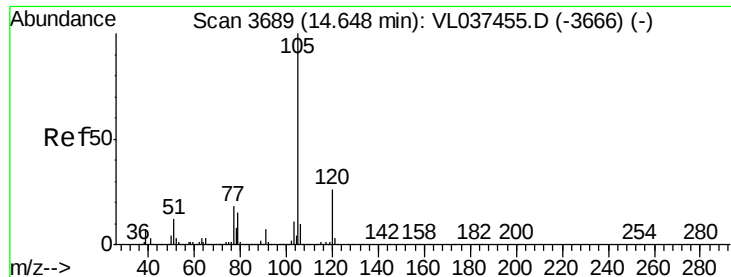
Tot Ion: 91 Resp: 23272  
Ion Ratio Lower Upper  
91 100  
106 70.9 23.7 71.1



#61  
Styrene  
Concen: 0.031 ppbv  
RT: 13.52 min Scan# 3337  
Delta R.T. 0.01 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

Tgt Ion:104 Resp: 6104  
Ion Ratio Lower Upper  
104 100  
78 140.2 41.3 61.9#  
103 113.8 39.4 59.0#





#62

Isopropylbenzene

Concen: 0.051 ppbv

RT: 14.65 min Scan# 3690

Delta R.T. 0.00 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

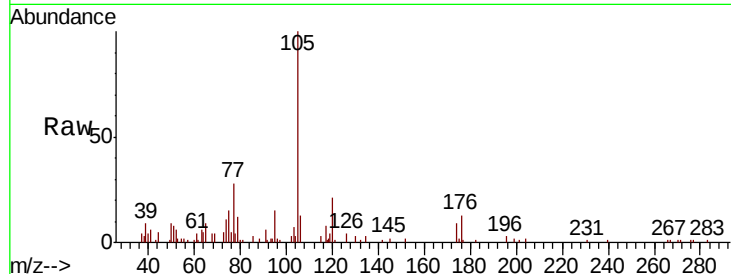
ClientSampleId :

Tot Ion:105 Resp: 27503

Ion Ratio Lower Upper

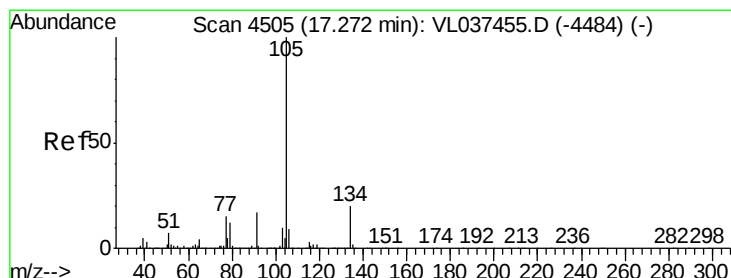
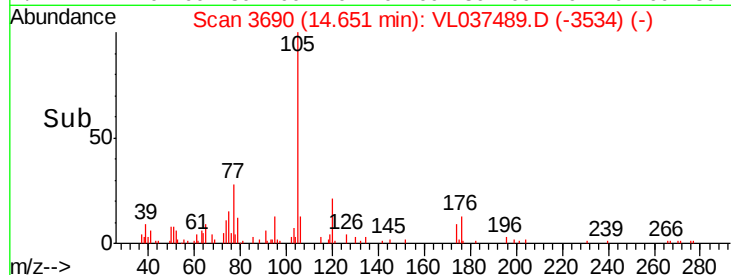
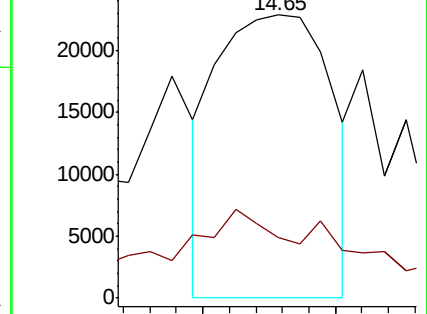
105 100

120 56.0 21.5 32.3#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#67

sec-Butylbenzene

Concen: 0.041 ppbv

RT: 17.28 min Scan# 4508

Delta R.T. 0.01 min

Lab File: VL037489.D

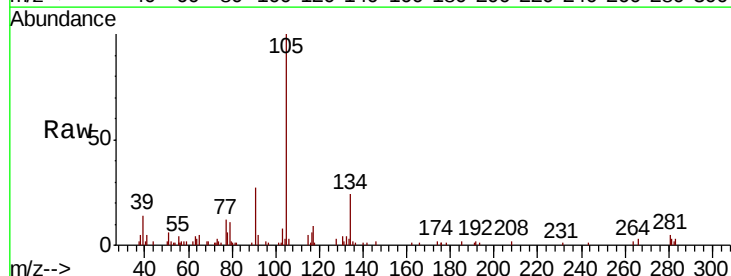
Acq: 18 Aug 2021 13:35

Tgt Ion:105 Resp: 27869

Ion Ratio Lower Upper

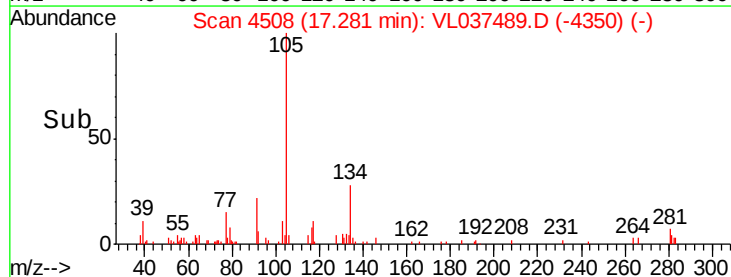
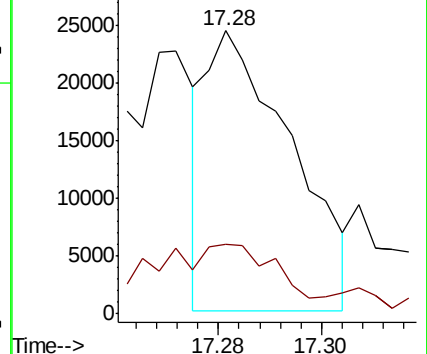
105 100

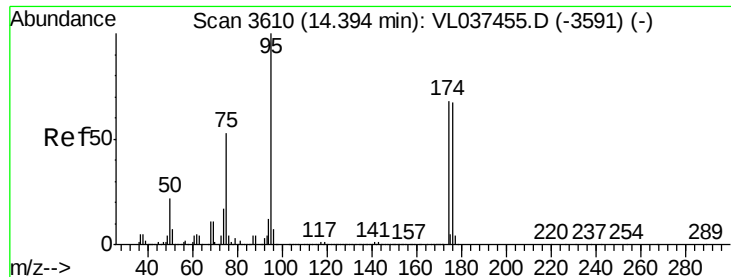
134 52.4 15.2 22.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

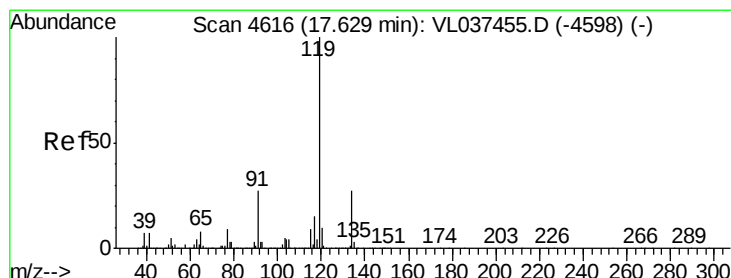
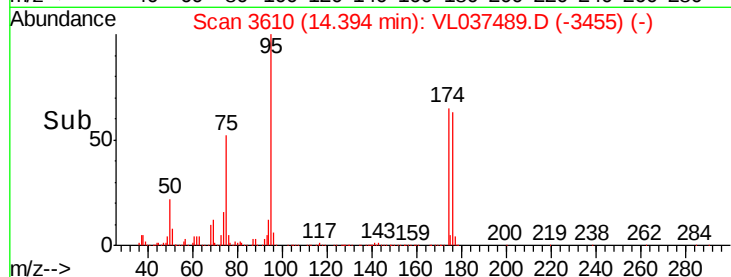
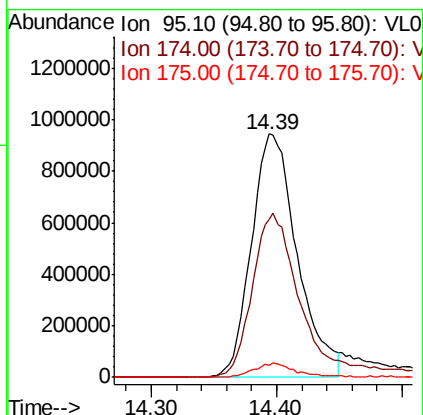
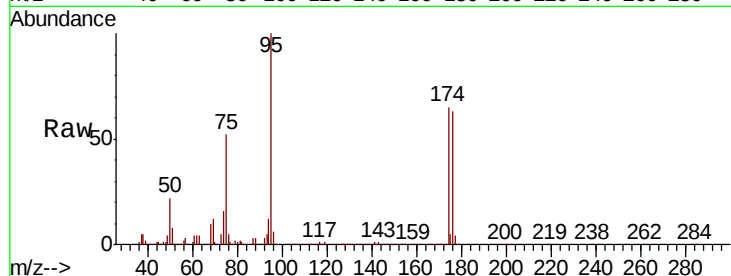




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.938 ppbv  
 RT: 14.39 min Scan# 3610  
 Delta R.T. -0.00 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

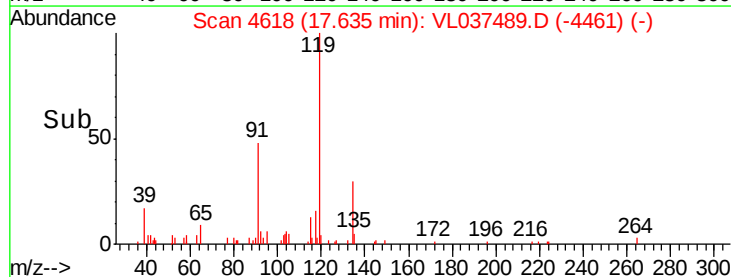
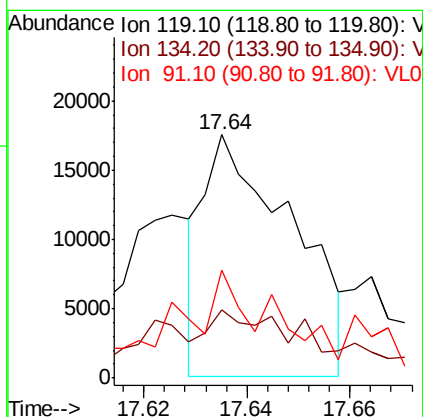
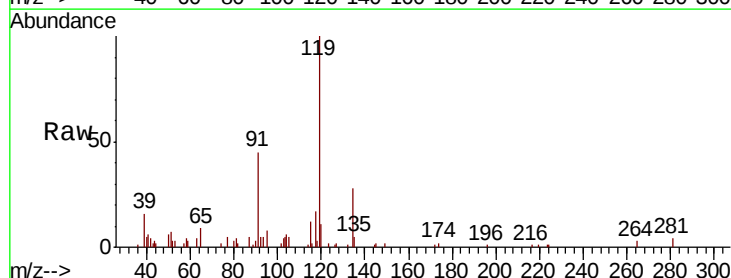
Instrument :  
 MSVOA\_L  
 ClientSampleId :

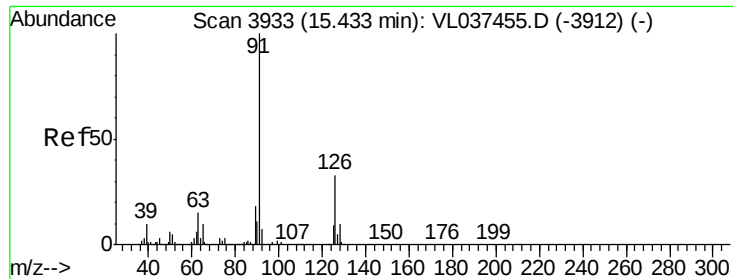
Tot Ion: 95 Resp: 2397204  
 Ion Ratio Lower Upper  
 95 100  
 174 76.1 59.6 89.4  
 175 5.6 4.6 7.0



#69  
 p-Isopropyltoluene  
 Concen: 0.037 ppbv  
 RT: 17.64 min Scan# 4618  
 Delta R.T. 0.01 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

Tgt Ion: 119 Resp: 20807  
 Ion Ratio Lower Upper  
 119 100  
 134 60.2 21.1 31.7#  
 91 74.3 22.4 33.6#

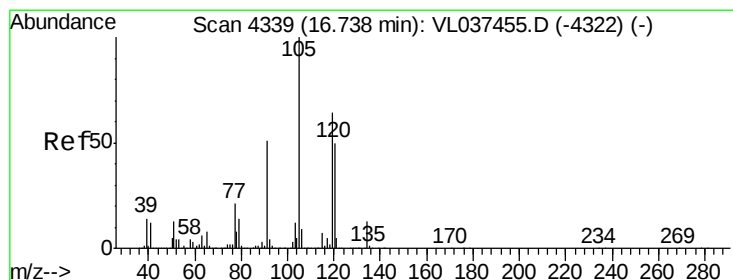
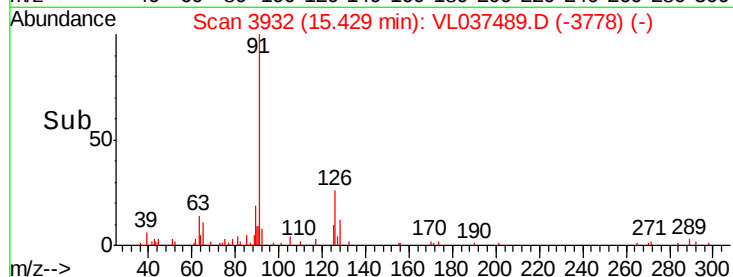
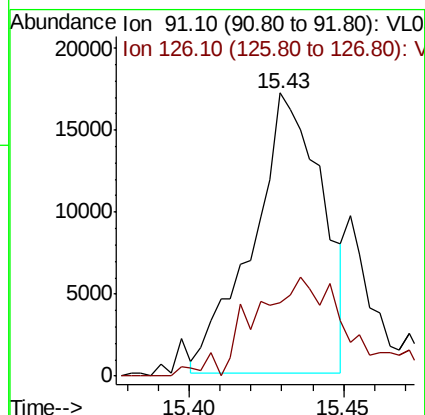
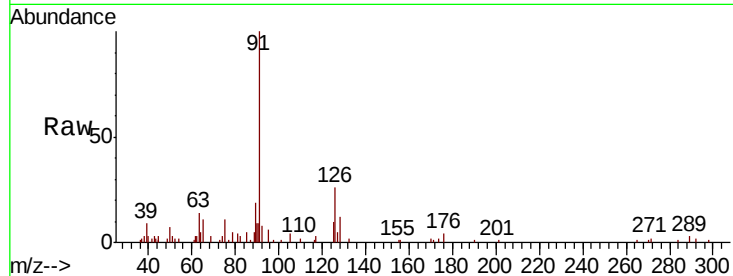




#71  
2-Chlorotoluene  
Concen: 0.068 ppbv  
RT: 15.43 min Scan# 3932  
Delta R.T. -0.00 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

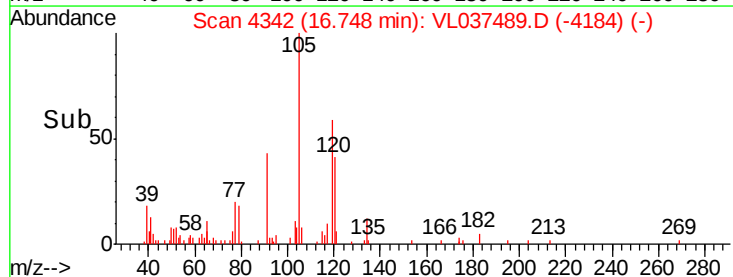
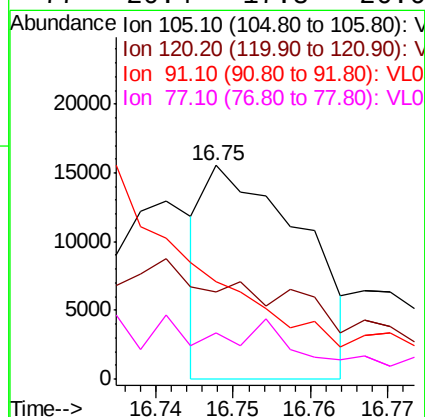
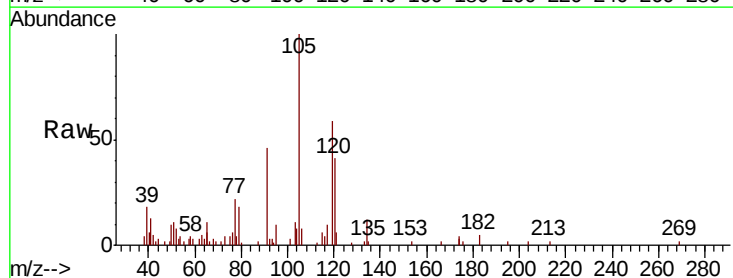
Instrument :  
MSVOA\_L  
ClientSampleId :

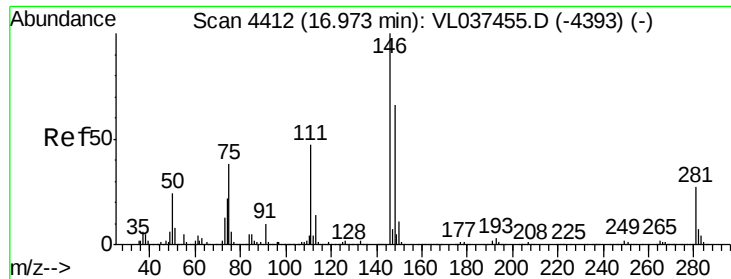
Tot Ion: 91 Resp: 26694  
Ion Ratio Lower Upper  
91 100  
126 50.9 13.6 54.4



#74  
1,2,4-Trimethylbenzene  
Concen: 0.030 ppbv  
RT: 16.75 min Scan# 4342  
Delta R.T. 0.01 min  
Lab File: VL037489.D  
Acq: 18 Aug 2021 13:35

Tgt Ion: 105 Resp: 13596  
Ion Ratio Lower Upper  
105 100  
120 41.4 40.4 60.6  
91 50.9 44.6 67.0  
77 20.4 17.8 26.6

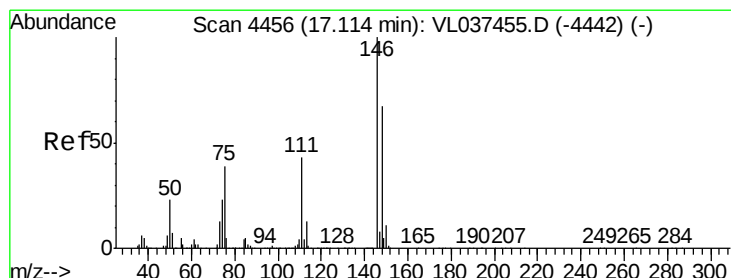
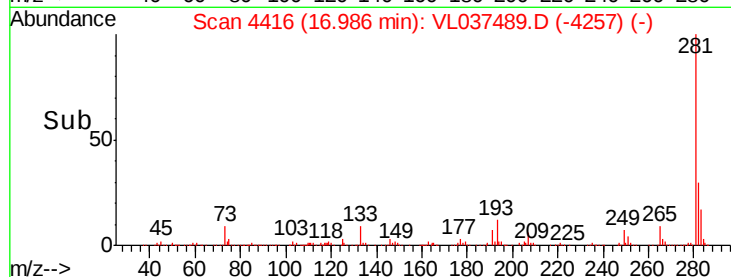
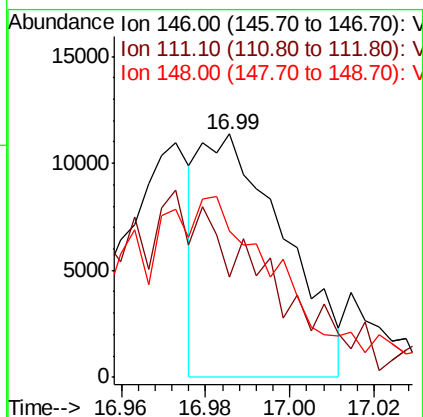
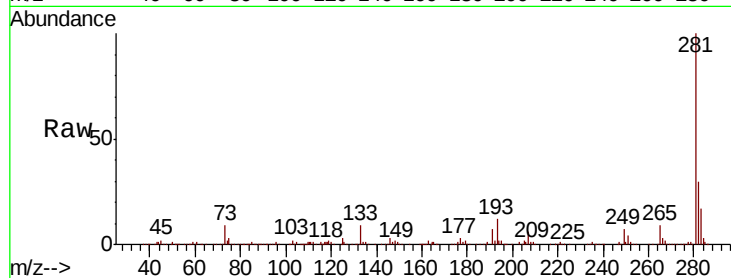




#75  
 1,3-Dichlorobenzene  
 Concen: 0.058 ppbv  
 RT: 16.99 min Scan# 4416  
 Delta R.T. 0.01 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

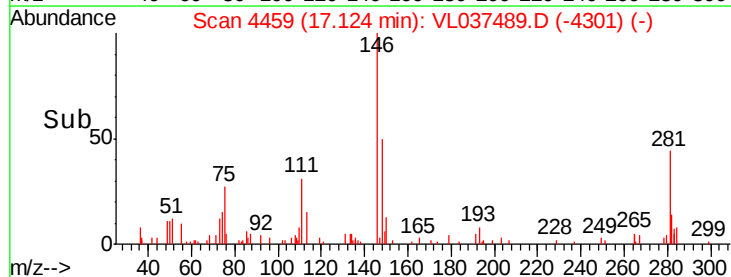
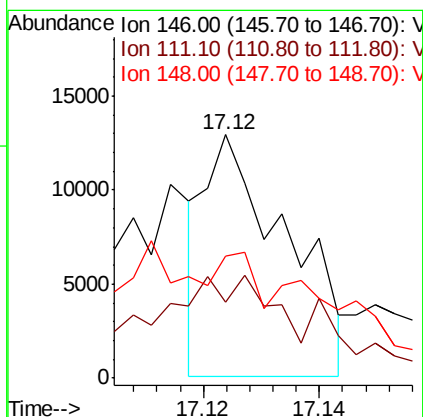
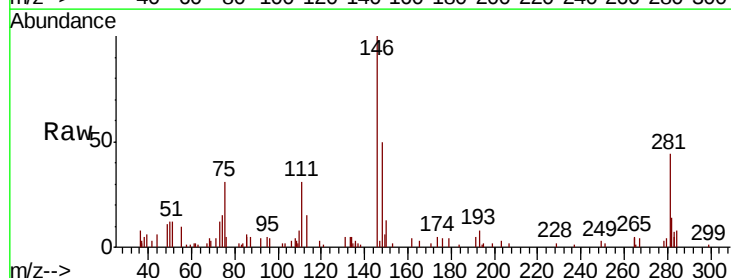
Instrument :  
 MSVOA\_L  
 ClientSampleId :

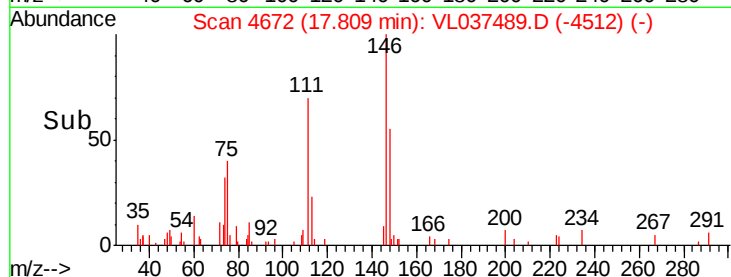
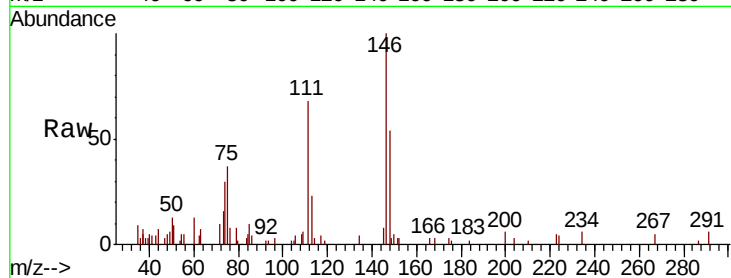
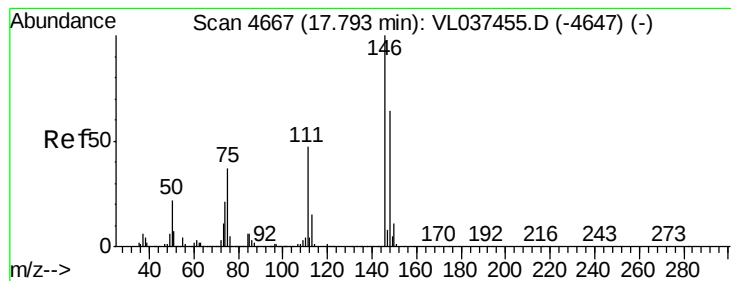
Tot Ion:146 Resp: 15751  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 23.4 70.0#  
 148 150.4 33.1 99.5#



#76  
 1,4-Dichlorobenzene  
 Concen: 0.046 ppbv  
 RT: 17.12 min Scan# 4459  
 Delta R.T. 0.01 min  
 Lab File: VL037489.D  
 Acq: 18 Aug 2021 13:35

Tgt Ion:146 Resp: 12605  
 Ion Ratio Lower Upper  
 146 100  
 111 110.8 22.1 66.5#  
 148 0.0 32.4 97.0#





#77

1,2-Dichlorobenzene

Concen: 0.043 ppbv

RT: 17.81 min Scan# 4672

Delta R.T. 0.02 min

Lab File: VL037489.D

Acq: 18 Aug 2021 13:35

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion:146 Resp: 11520

Ion Ratio Lower Upper

146 100

111 128.6 23.4 70.3#

148 175.9 32.5 97.5#

