

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081321\  
 Data File : VL037451.D  
 Acq On : 13 Aug 2021 16:27  
 Operator : SY/AP  
 Sample : M2440-14 0.03 LOQ  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Aug 16 02:36:53 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 13 01:37:35 2021  
 QLast Update : Fri Aug 13 01:37:35 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1119166  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 3580082  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 2960239  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.41  | 95    | 2269583  | 10.69    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.90% |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.08 | 85   | 1282     | 0.007 | ppbv   | 95     |
| 3) Chlorodifluoromethane       | 2.99 | 51   | 10474    | 0.048 | ppbv # | 90     |
| 4) Chloromethane               | 3.14 | 50   | 2175     | 0.028 | ppbv # | 86     |
| 5) Vinyl Chloride              | 3.26 | 62   | 2682     | 0.031 | ppbv # | 54     |
| 6) Bromomethane                | 3.47 | 94   | 571      | 0.013 | ppbv # | 4      |
| 7) Chloroethane                | 3.56 | 64   | 665      | 0.023 | ppbv # | 52     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85   | 6927     | 0.036 | ppbv # | 48     |
| 9) Propene                     | 3.01 | 41   | 3399     | 0.046 | ppbv # | 1      |
| 10) Heptane                    | 8.12 | 43   | 3804     | 0.021 | ppbv # | 21     |
| 11) Trichlorofluoromethane     | 4.00 | 101  | 226      | 0.001 | ppbv   | 86     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101  | 5016     | 0.039 | ppbv # | 45     |
| 13) Ethanol                    | 3.63 | 45   | 773      | 0.098 | ppbv # | 15     |
| 14) Bromoethene                | 3.74 | 108  | 751      | 0.013 | ppbv # | 1      |
| 15) Acetone                    | 3.84 | 43   | 258      | 0.002 | ppbv # | 44     |
| 16) 1,3-Butadiene              | 3.32 | 39   | 674      | 0.008 | ppbv # | 11     |
| 17) tert-Butyl alcohol         | 4.33 | 59   | 119      | 0.001 | ppbv # | 72     |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 323      | 0.005 | ppbv   | 94     |
| 19) Isopropyl Alcohol          | 3.96 | 45   | 72       | 0.001 | ppbv # | 92     |
| 20) Methylene Chloride         | 4.33 | 84   | 2131     | 0.034 | ppbv # | 44     |
| 21) Allyl Chloride             | 4.42 | 41   | 1622     | 0.017 | ppbv # | 1      |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96   | 1202     | 0.021 | ppbv # | 20     |
| 23) Vinyl Acetate              | 5.07 | 43   | 1354     | 0.007 | ppbv # | 52     |
| 24) 1,1-Dichloroethane         | 5.02 | 63   | 2649     | 0.019 | ppbv # | 89     |
| 25) Ethyl Acetate              | 5.68 | 43   | 1355     | 0.005 | ppbv # | 75     |
| 26) Hexane                     | 5.68 | 57   | 2075     | 0.014 | ppbv # | 1      |
| 27) Carbon Disulfide           | 4.55 | 76   | 1939     | 0.016 | ppbv # | 64     |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73   | 150      | 0.001 | ppbv # | 52     |
| 29) Chloroform                 | 5.51 | 83   | 120      | 0.001 | ppbv   | 93     |
| 30) Cyclohexane                | 7.13 | 84   | 2109     | 0.018 | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene     | 5.55 | 61   | 1896     | 0.015 | ppbv # | 56     |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97   | 3925     | 0.019 | ppbv # | 22     |
| 34) 2-Butanone                 | 5.25 | 43   | 1536     | 0.010 | ppbv # | 54     |
| 35) Carbon Tetrachloride       | 7.02 | 117  | 1697     | 0.008 | ppbv # | 68     |
| 36) Benzene                    | 6.89 | 78   | 7267     | 0.024 | ppbv # | 92     |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 3442     | 0.022 | ppbv # | 77     |
| 38) Trichloroethene            | 7.84 | 130  | 1386     | 0.010 | ppbv # | 49     |
| 39) 1,2-Dichloropropane        | 7.17 | 63   | 818125   | 7.114 | ppbv # | 27     |
| 40) 1,4-Dioxane                | 7.84 | 88   | 368      | 0.013 | ppbv # | 100    |
| 41) Tetrahydrofuran            | 6.07 | 42   | 52       | 0.001 | ppbv # | 1      |
| 42) Bromodichloromethane       | 7.80 | 83   | 3899     | 0.018 | ppbv # | 35     |
| 43) Methyl Methacrylate        | 8.02 | 69   | 812      | 0.008 | ppbv # | 1      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081321\  
 Data File : VL037451.D  
 Acq On : 13 Aug 2021 16:27  
 Operator : SY/AP  
 Sample : M2440-14 0.03 LOQ  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

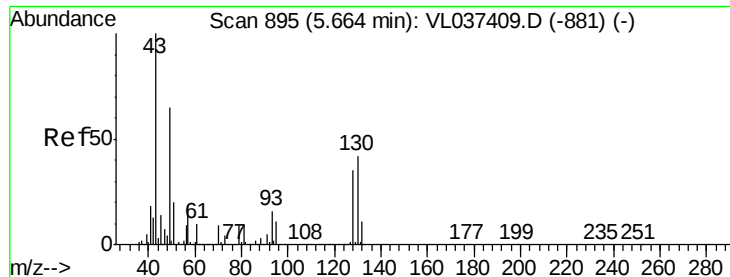
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Aug 16 02:36:53 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 13 01:37:35 2021  
 QLast Update : Fri Aug 13 01:37:35 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|-------|------|----------|-------|-------|----------|
| -----                         |       |      |          |       |       |          |
| 44) 2,2,4-Trimethylpentane    | 7.87  | 57   | 8761     | 0.017 | ppbv  | # 10     |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 473      | 0.006 | ppbv  | # 10     |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1087     | 0.010 | ppbv  | # 40     |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 2443     | 0.020 | ppbv  | # 64     |
| 48) Dibromochloromethane      | 10.30 | 129  | 2825     | 0.016 | ppbv  | # 10     |
| 49) Bromoform                 | 13.04 | 173  | 675      | 0.005 | ppbv  | # 27     |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 128      | 0.001 | ppbv  | # 15     |
| 51) 2-Hexanone                | 10.17 | 43   | 724      | 0.008 | ppbv  | # 28     |
| 52) Tetrachloroethene         | 11.23 | 164  | 1256     | 0.010 | ppbv  | # 48     |
| 53) Toluene                   | 9.80  | 91   | 4417     | 0.013 | ppbv  | # 20     |
| 54) 1,2-Dibromoethane         | 10.60 | 107  | 1343     | 0.008 | ppbv  | # 88     |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1376     | 0.012 | ppbv  | # 6      |
| 57) Chlorobenzene             | 12.14 | 112  | 3860     | 0.016 | ppbv  | # 69     |
| 58) Ethyl Benzene             | 12.73 | 91   | 1169     | 0.003 | ppbv  | # 93     |
| 59) m/p-Xylene                | 12.98 | 91   | 2976     | 0.008 | ppbv  | # 1      |
| 60) o-Xylene                  | 13.69 | 91   | 2605     | 0.008 | ppbv  | # 1      |
| 61) Styrene                   | 13.65 | 104  | 243      | 0.001 | ppbv  | # 94     |
| 62) Isopropylbenzene          | 14.66 | 105  | 5487     | 0.012 | ppbv  | # 48     |
| 63) 1,1,2,2-Tetrachloroethane | 13.67 | 83   | 2724     | 0.011 | ppbv  | # 24     |
| 64) n-propylbenzene           | 15.85 | 120  | 493      | 0.004 | ppbv  | # 86     |
| 65) tert-Butylbenzene         | 16.73 | 119  | 1205     | 0.003 | ppbv  | # 20     |
| 66) Benzyl Chloride           | 16.98 | 91   | 281      | 0.015 | ppbv  | # 1      |
| 67) sec-Butylbenzene          | 17.29 | 105  | 12071    | 0.021 | ppbv  | # 58     |
| 69) p-Isopropyltoluene        | 17.64 | 119  | 1586     | 0.003 | ppbv  | # 48     |
| 70) n-Butylbenzene            | 18.54 | 91   | 4457     | 0.010 | ppbv  | # 32     |
| 71) 2-Chlorotoluene           | 15.60 | 91   | 851      | 0.003 | ppbv  | # 97     |
| 72) 4-Ethyltoluene            | 15.82 | 105  | 1430     | 0.004 | ppbv  | # 54     |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 6504     | 0.018 | ppbv  | # 59     |
| 74) 1,2,4-Trimethylbenzene    | 16.75 | 105  | 1034     | 0.003 | ppbv  | # 73     |
| 75) 1,3-Dichlorobenzene       | 16.99 | 146  | 2414     | 0.011 | ppbv  | # 23     |
| 76) 1,4-Dichlorobenzene       | 17.13 | 146  | 1594     | 0.007 | ppbv  | # 22     |
| 77) 1,2-Dichlorobenzene       | 17.81 | 146  | 1610     | 0.007 | ppbv  | # 23     |
| 78) Hexachloro-1,3-Butadiene  | 23.36 | 225  | 3816     | 0.022 | ppbv  | # 1      |
| 79) Naphthalene               | 22.18 | 128  | 441      | 0.002 | ppbv  | # 69     |
| 80) Naphthalene, 2-methyl-    | 25.07 | 142  | 176      | 0.004 | ppbv  | # 62     |
| 81) 1,2,4-Trichlorobenzene    | 21.91 | 180  | 326      | 0.002 | ppbv  | # 11     |
| -----                         |       |      |          |       |       |          |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

ClientSampleId :

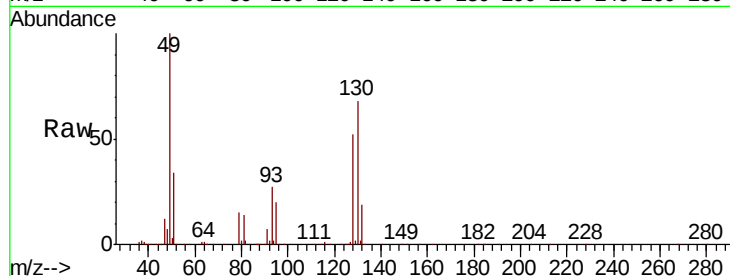
Tot Ion: 49 Resp: 1119166

Ion Ratio Lower Upper

49 100

128 59.5 27.9 83.6

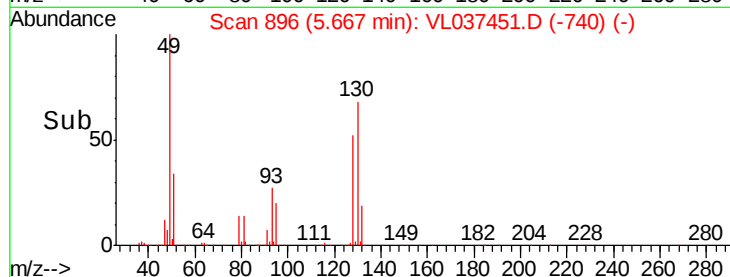
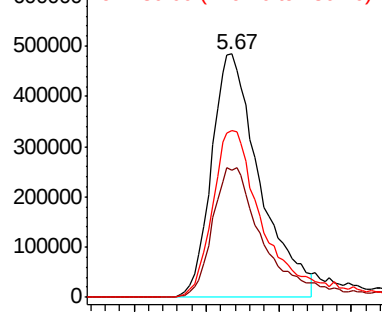
130 75.0 34.6 103.8



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: 0.007 ppbv

RT: 3.08 min Scan# 90

Delta R.T. 0.03 min

Lab File: VL037451.D

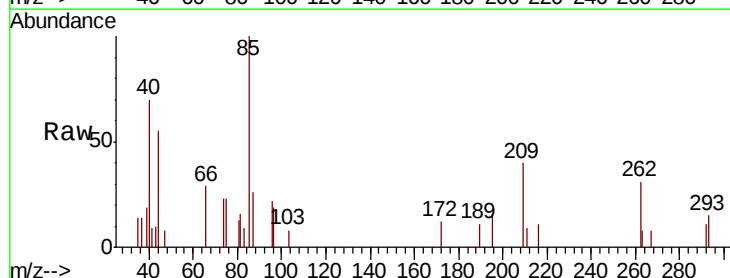
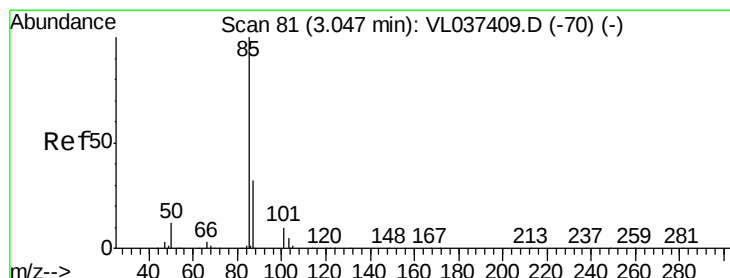
Acq: 13 Aug 2021 16:27

Tgt Ion: 85 Resp: 1282

Ion Ratio Lower Upper

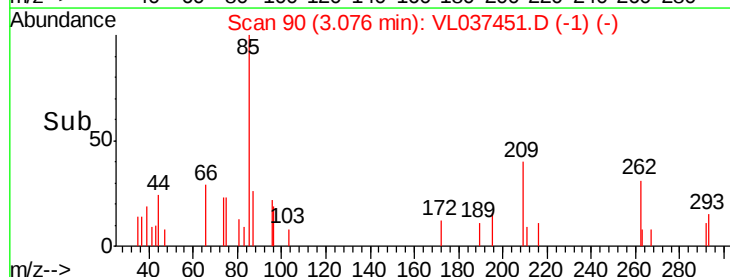
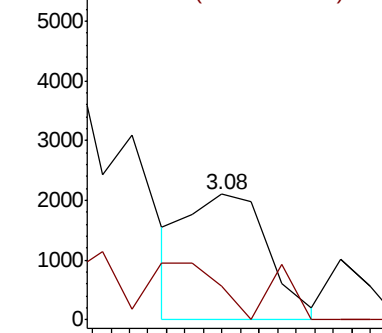
85 100

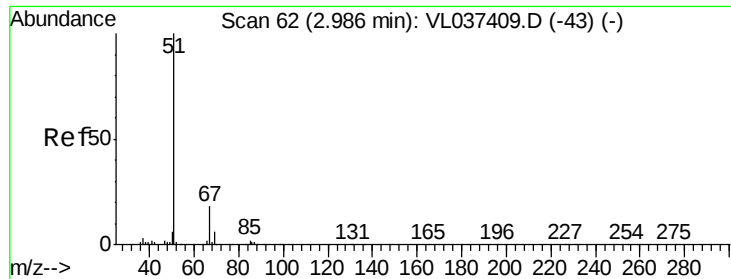
87 29.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.048 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

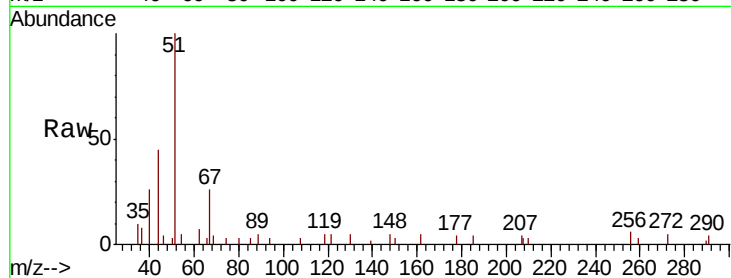
ClientSampleId :

Tot Ion: 51 Resp: 10474

Ion Ratio Lower Upper

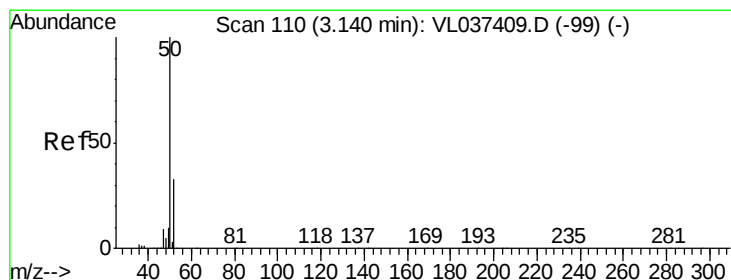
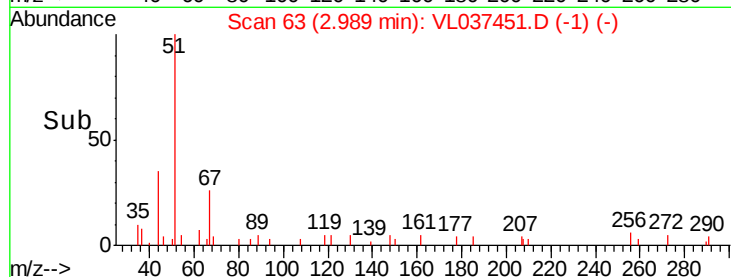
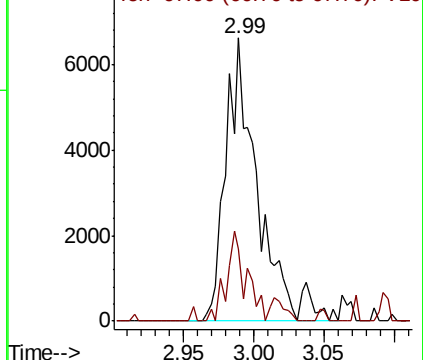
51 100

67 23.0 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.028 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL037451.D

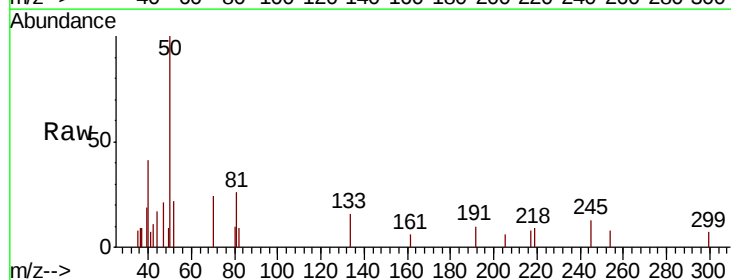
Acq: 13 Aug 2021 16:27

Tgt Ion: 50 Resp: 2175

Ion Ratio Lower Upper

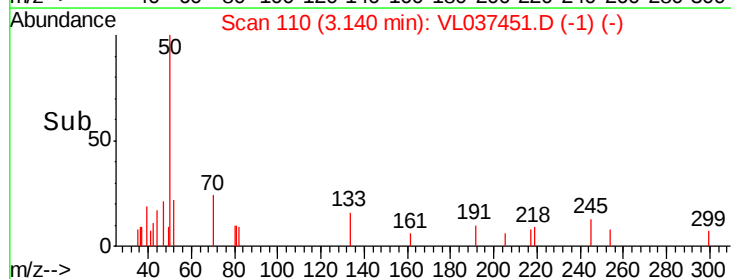
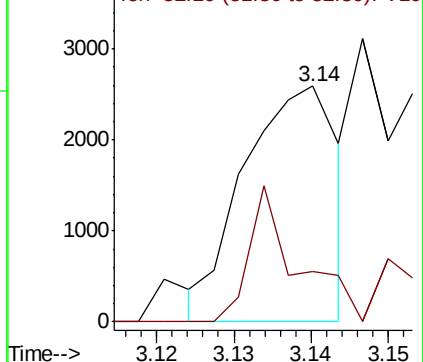
50 100

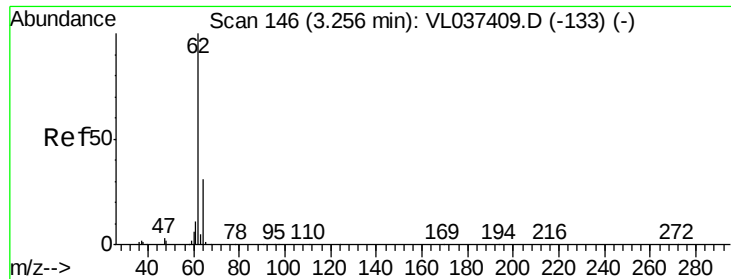
52 25.1 26.2 39.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.031 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

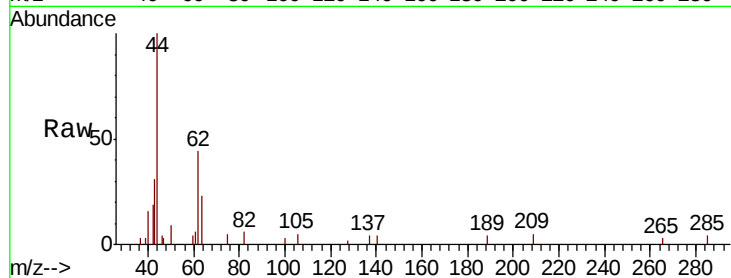
ClientSampled :

Tot Ion: 62 Resp: 2682

Ion Ratio Lower Upper

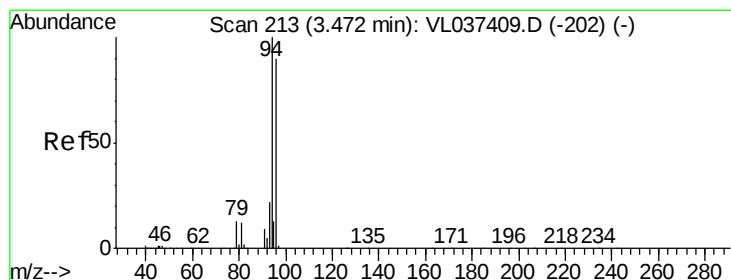
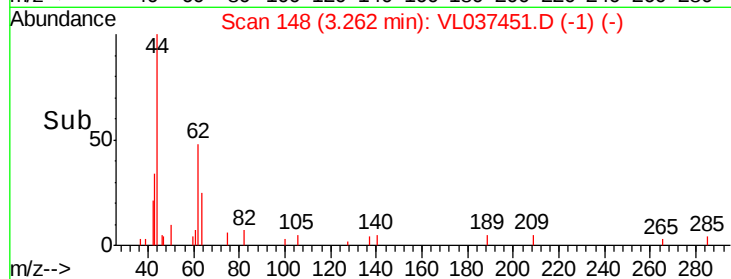
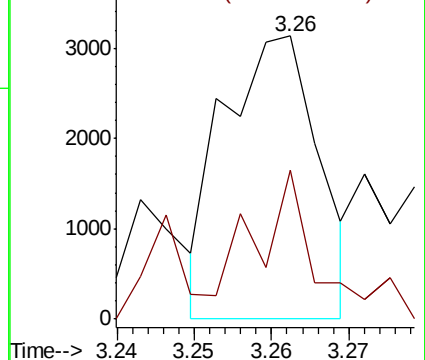
62 100

64 56.9 25.0 37.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.013 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL037451.D

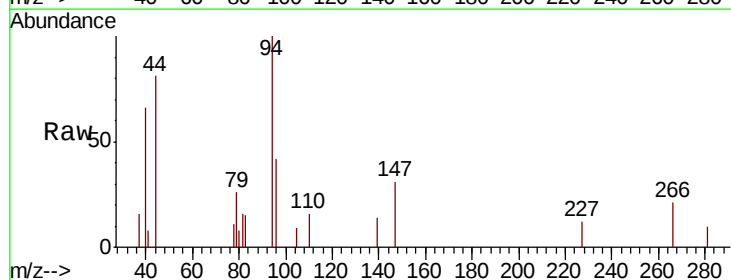
Acq: 13 Aug 2021 16:27

Tgt Ion: 94 Resp: 571

Ion Ratio Lower Upper

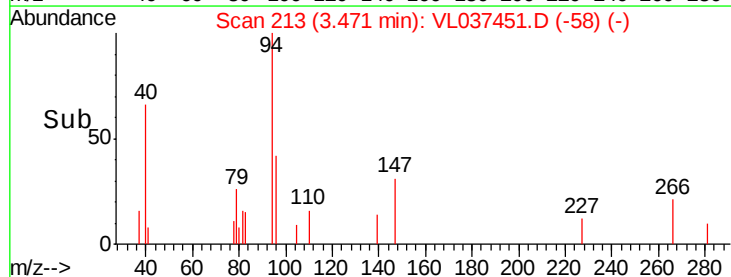
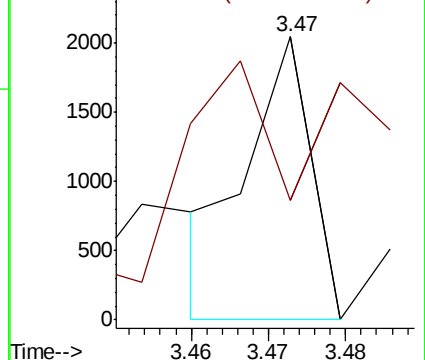
94 100

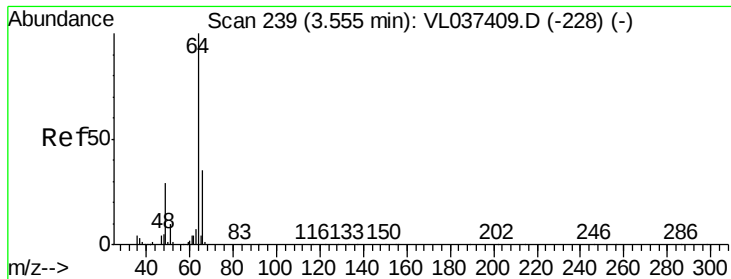
96 0.0 72.2 108.4#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.023 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

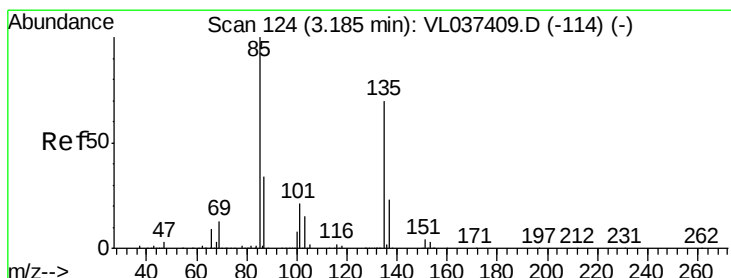
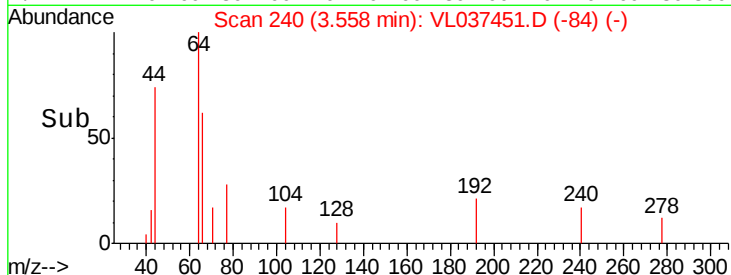
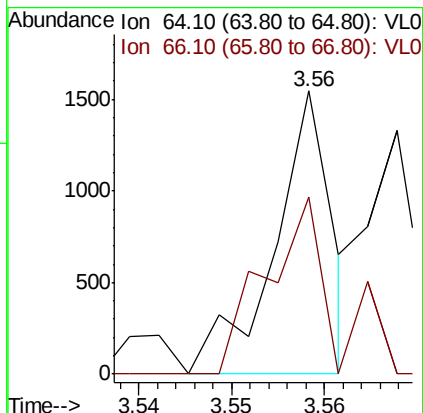
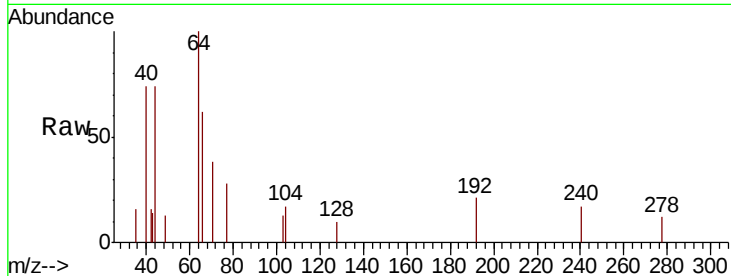
ClientSampleId :

Tot Ion: 64 Resp: 665

Ion Ratio Lower Upper

64 100

66 62.5 27.8 41.8#



#8

Dichlorotetrafluoroethane

Concen: 0.036 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.01 min

Lab File: VL037451.D

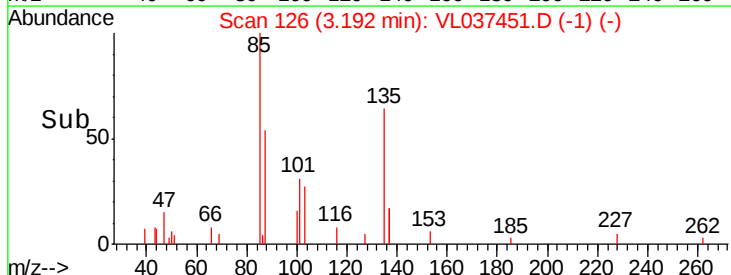
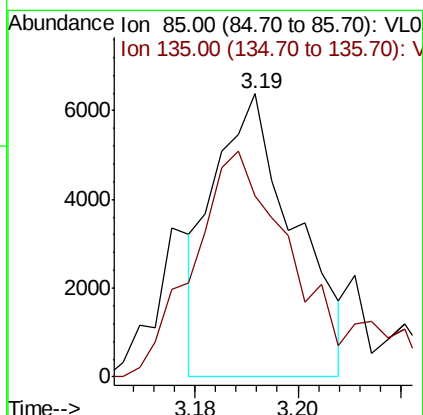
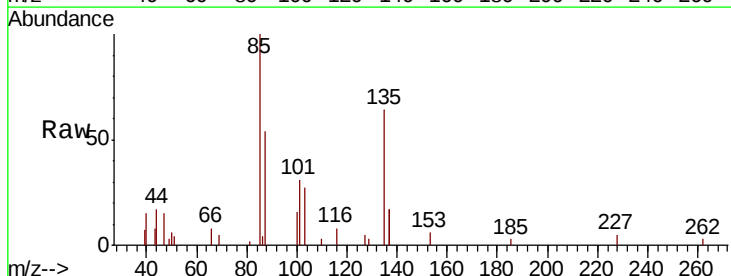
Acq: 13 Aug 2021 16:27

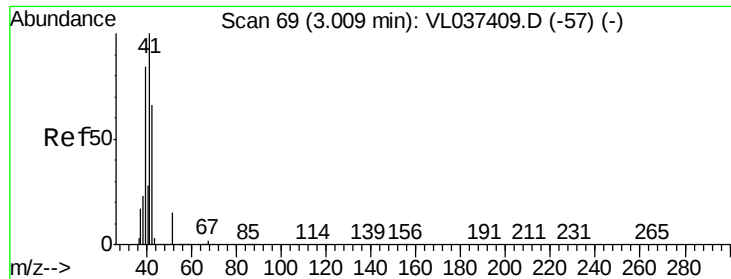
Tgt Ion: 85 Resp: 6927

Ion Ratio Lower Upper

85 100

135 116.7 58.6 88.0#





#9

Propene

Concen: 0.046 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

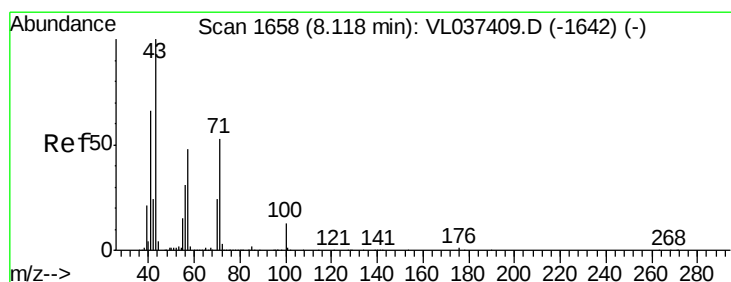
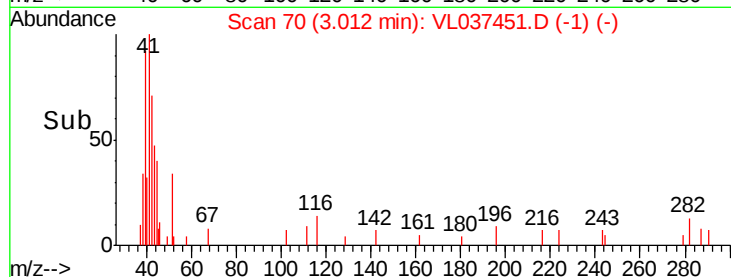
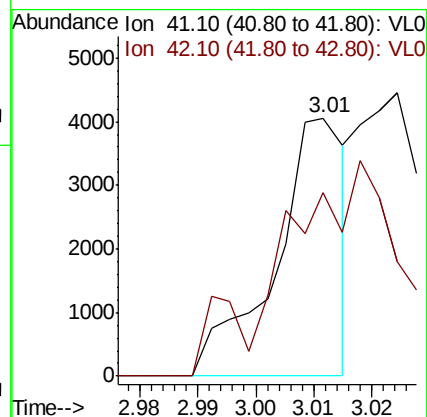
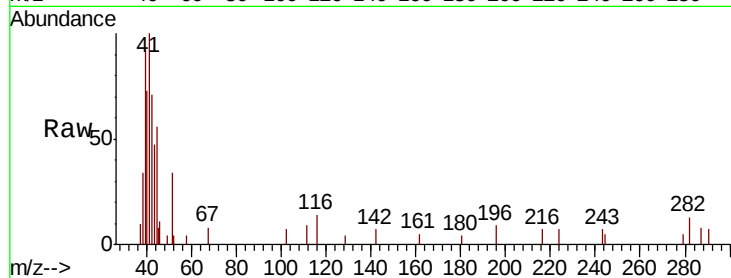
ClientSampleId :

Tot Ion: 41 Resp: 3399

Ion Ratio Lower Upper

41 100

42 158.9 53.8 80.8#



#10

Heptane

Concen: 0.021 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.00 min

Lab File: VL037451.D

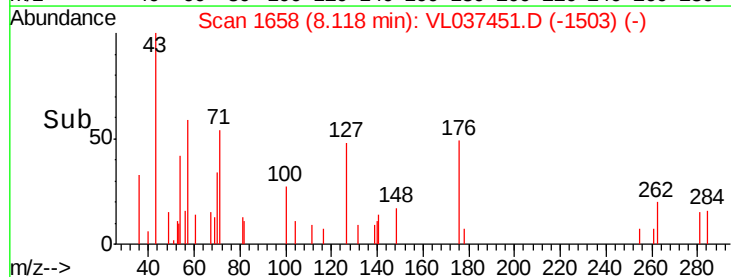
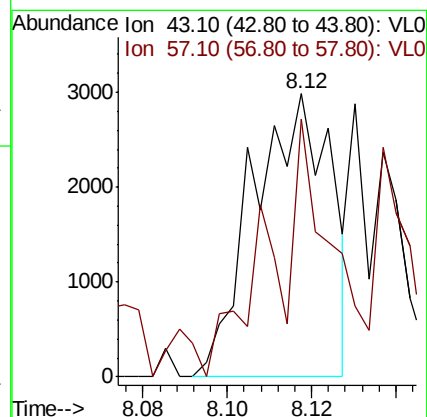
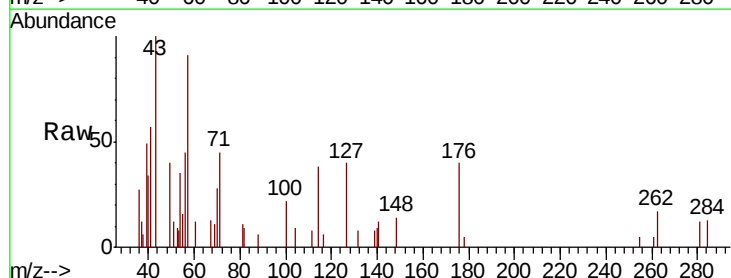
Acq: 13 Aug 2021 16:27

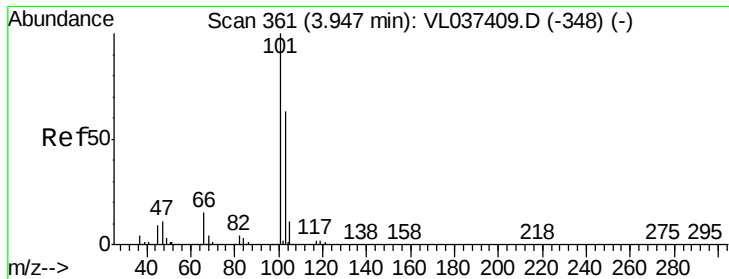
Tgt Ion: 43 Resp: 3804

Ion Ratio Lower Upper

43 100

57 105.3 40.3 60.5#





#11

Trichlorofluoromethane

Concen: 0.001 ppbv

RT: 4.00 min Scan# 376

Delta R.T. 0.05 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

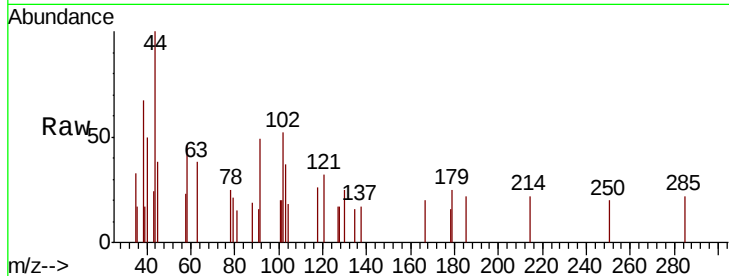
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion:101 Resp: 226

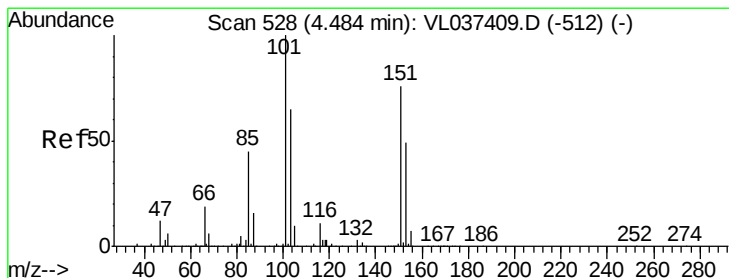
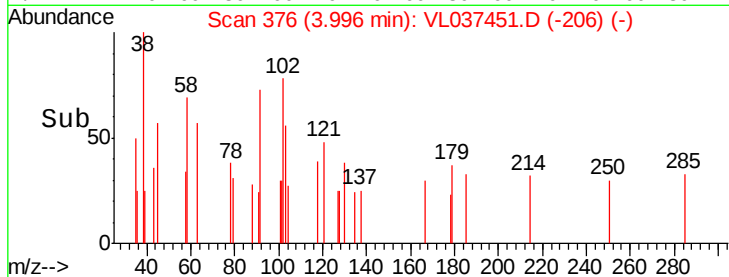
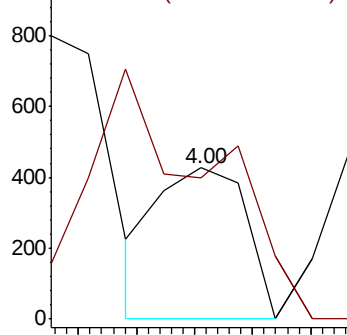
Ion Ratio Lower Upper

101 100

103 51.9 50.2 75.4



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: 0.039 ppbv

RT: 4.49 min Scan# 529

Delta R.T. 0.00 min

Lab File: VL037451.D

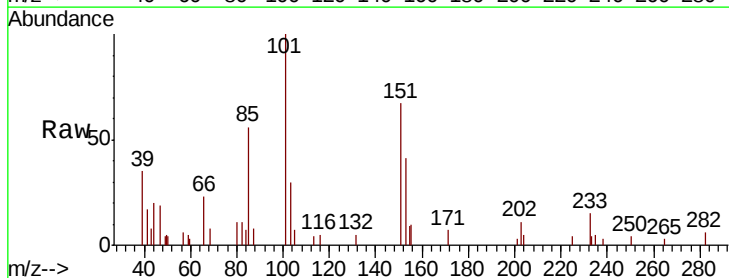
Acq: 13 Aug 2021 16:27

Tgt Ion:101 Resp: 5016

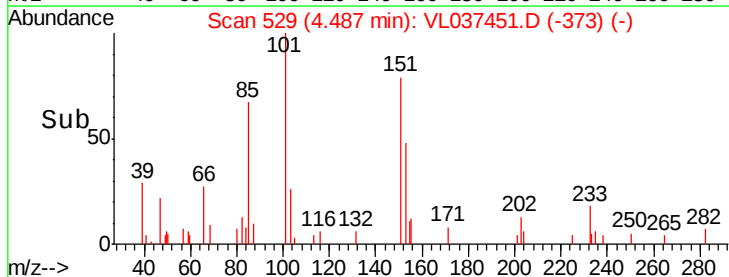
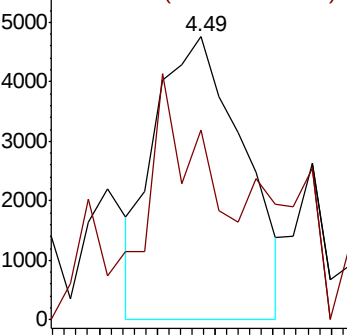
Ion Ratio Lower Upper

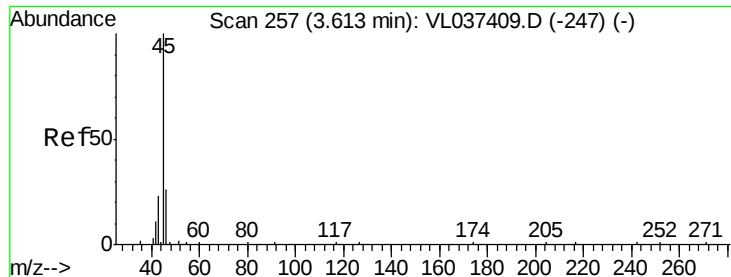
101 100

151 124.3 61.2 91.8#



Abundance Ion 101.00 (100.70 to 101.70): V  
Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.098 ppbv

RT: 3.63 min Scan# 263

Delta R.T. 0.02 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

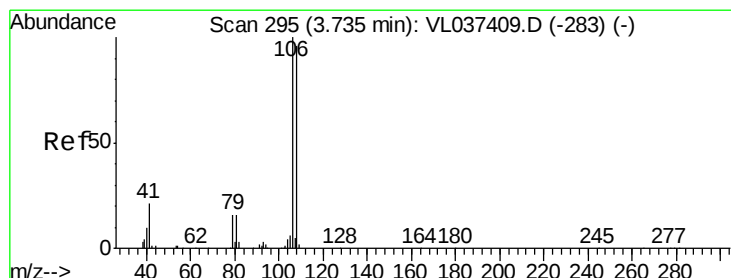
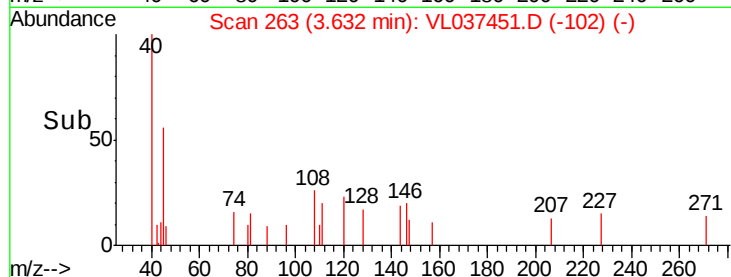
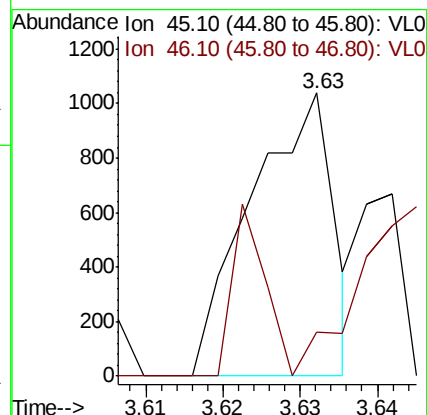
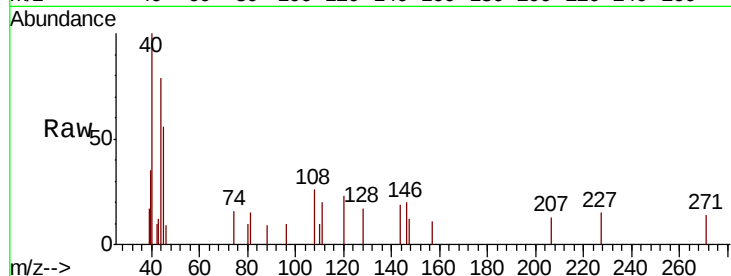
ClientSampleId :

Tot Ion: 45 Resp: 773

Ion Ratio Lower Upper

45 100

46 100.9 18.0 72.2#



#14

Bromoethene

Concen: 0.013 ppbv

RT: 3.74 min Scan# 296

Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

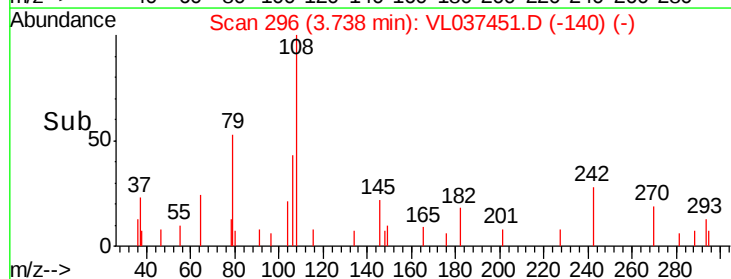
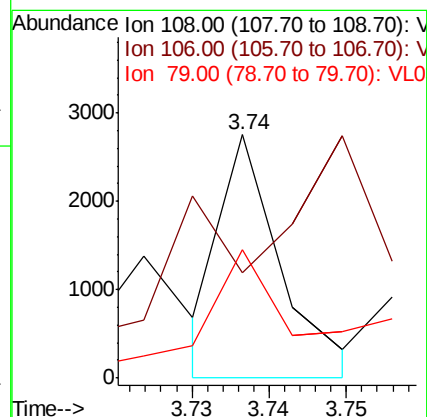
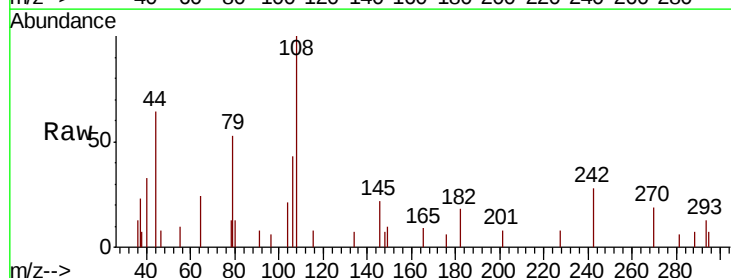
Tgt Ion: 108 Resp: 751

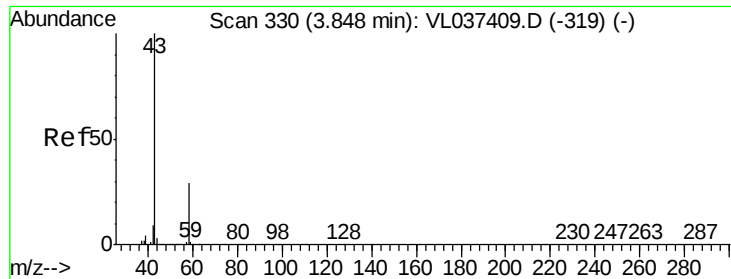
Ion Ratio Lower Upper

108 100

106 0.0 87.5 131.3#

79 179.8 13.5 20.3#





#15

Acetone

Concen: 0.002 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

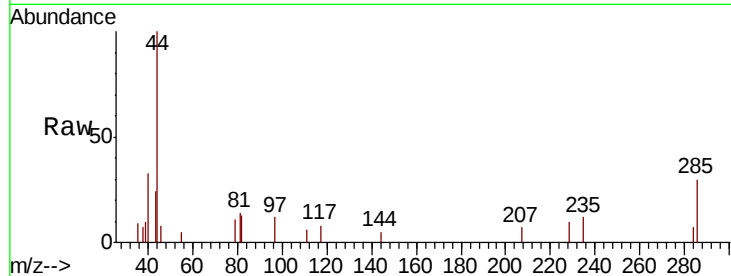
ClientSampleId :

Tot Ion: 43 Resp: 258

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

800

600

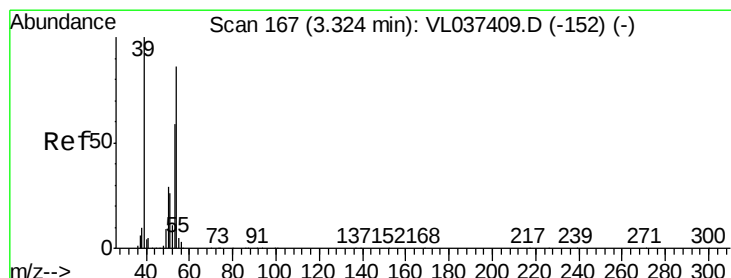
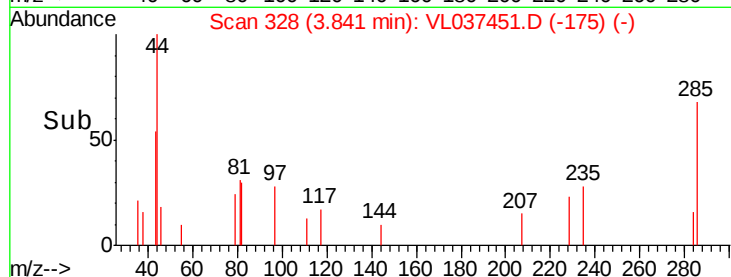
400

200

0

3.83 3.84 3.85

Time-->



#16

1,3-Butadiene

Concen: 0.008 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.00 min

Lab File: VL037451.D

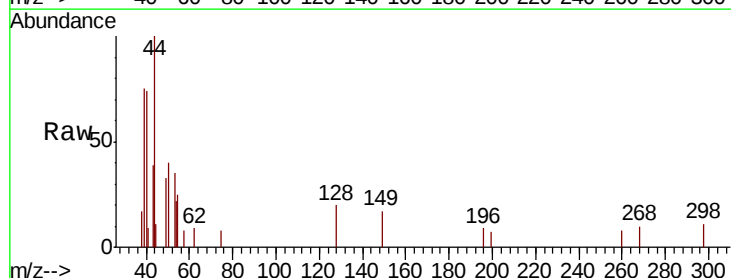
Acq: 13 Aug 2021 16:27

Tgt Ion: 39 Resp: 674

Ion Ratio Lower Upper

39 100

54 0.0 61.4 92.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.32

2000

1500

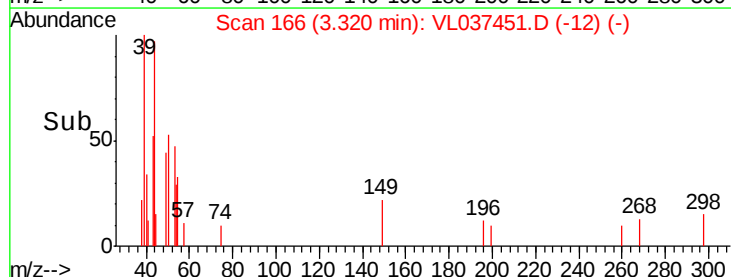
1000

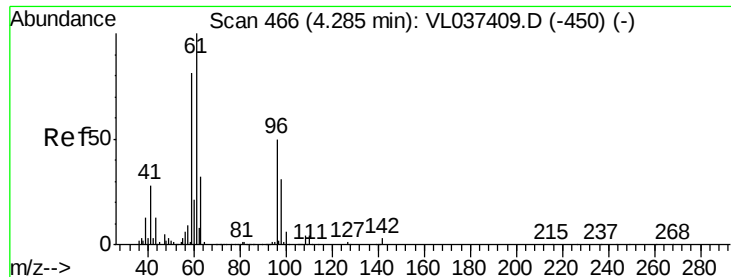
500

0

3.31 3.32 3.33 3.33

Time-->



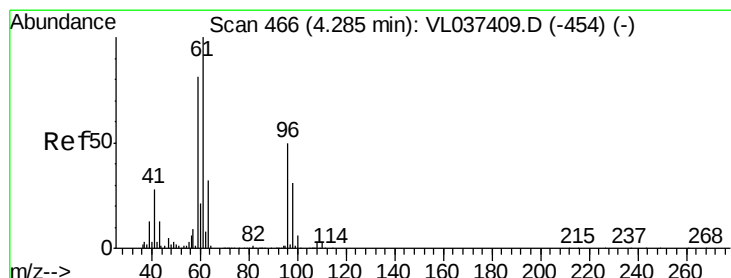
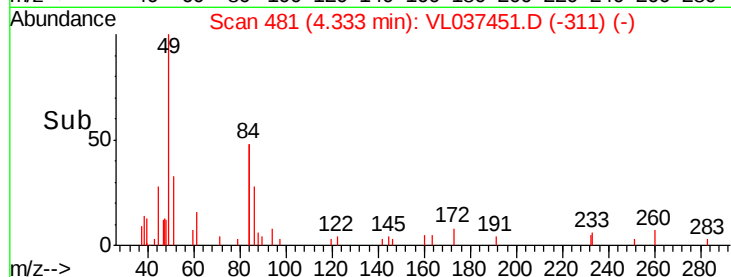
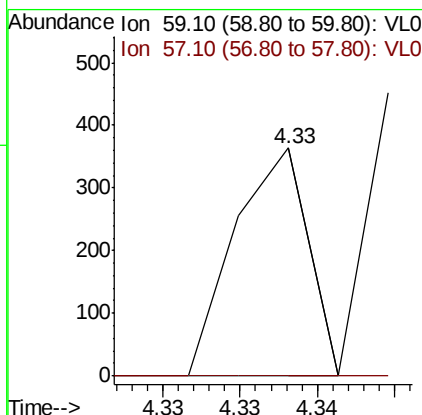
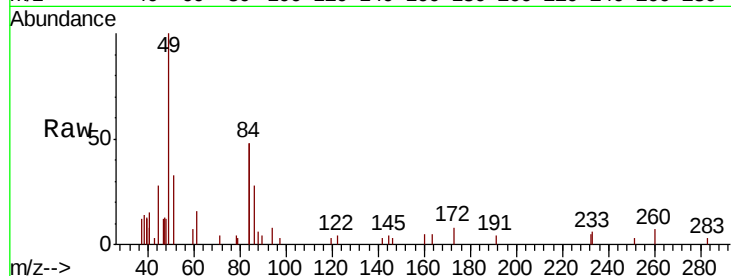


#17

tert-Butyl alcohol  
Concen: 0.001 ppbv  
RT: 4.33 min Scan# 481  
Delta R.T. 0.05 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Instrument :  
MSVOA\_L  
ClientSampled :

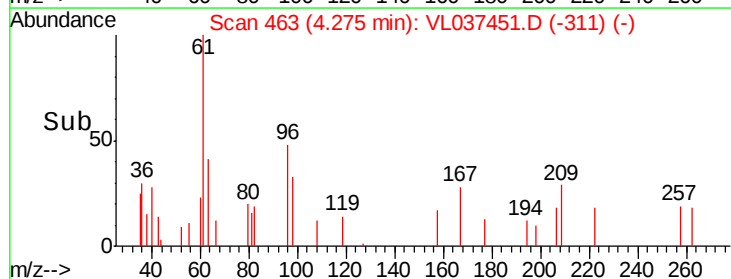
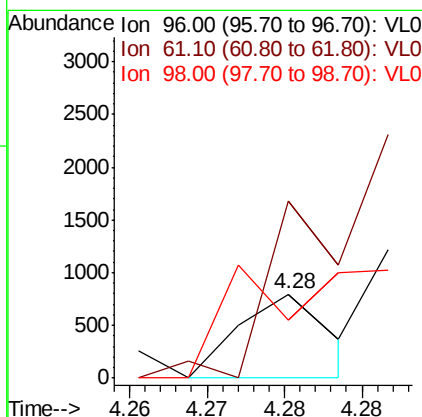
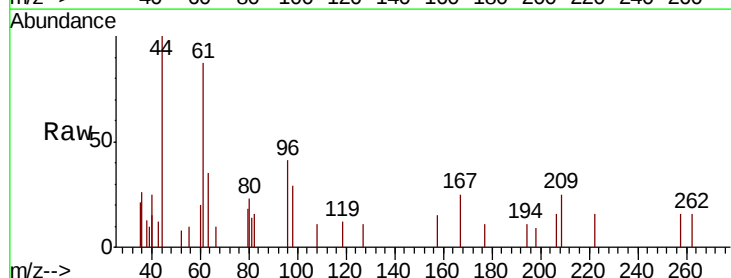
Tot Ion: 59 Resp: 119  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.5 12.7#

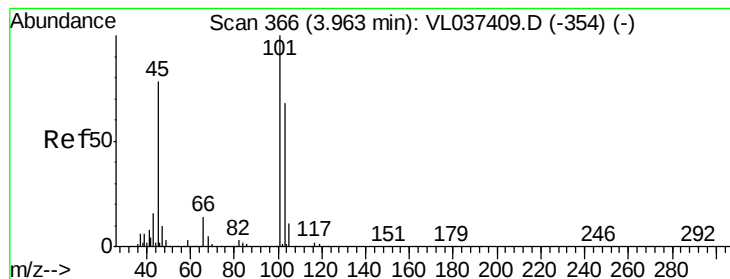


#18

1,1-Dichloroethene  
Concen: 0.005 ppbv  
RT: 4.28 min Scan# 463  
Delta R.T. -0.01 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 96 Resp: 323  
Ion Ratio Lower Upper  
96 100  
61 190.7 159.0 238.4  
98 69.1 49.4 74.2





#19

Isopropyl Alcohol

Concen: 0.001 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

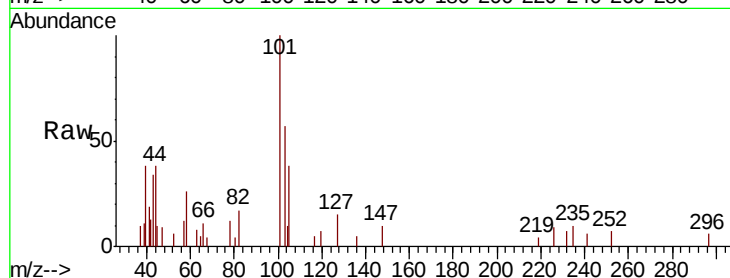
ClientSampleId :

Tot Ion: 45 Resp: 72

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

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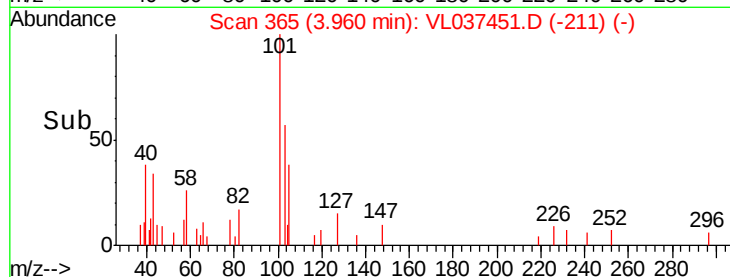
3.96

3.96

3.96

3.96

3.96



#20

Methylene Chloride

Concen: 0.034 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Tgt Ion: 84 Resp: 2131

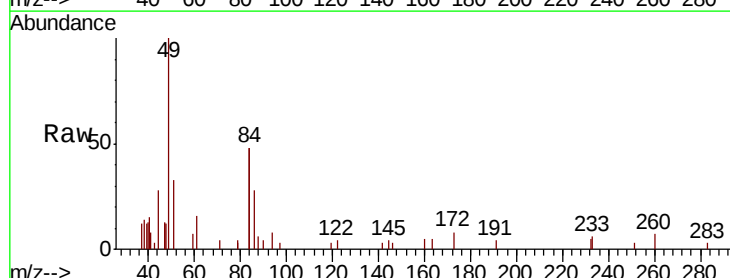
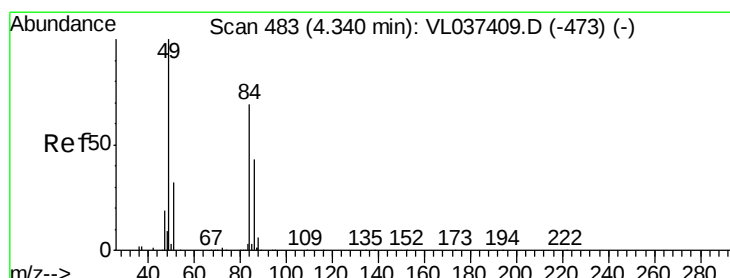
Ion Ratio Lower Upper

84 100

49 87.5 116.0 174.0#

51 9.3 37.1 55.7#

86 1.1 49.4 74.0#



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.33

4.34

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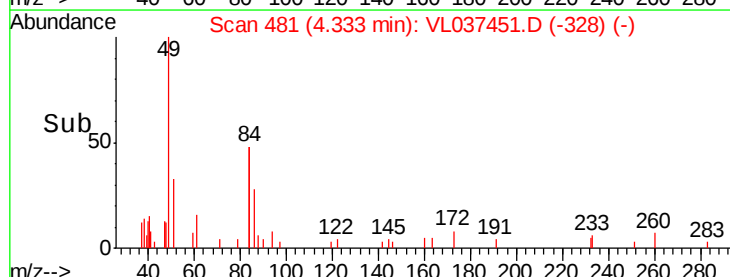
4.34

4.34

4.34

4.34

4.34



#20

Methylene Chloride

Concen: 0.034 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Tgt Ion: 84 Resp: 2131

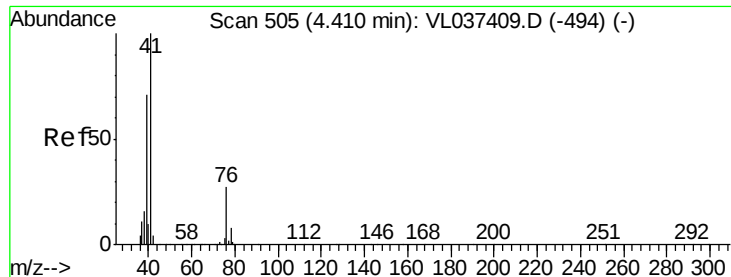
Ion Ratio Lower Upper

84 100

49 87.5 116.0 174.0#

51 9.3 37.1 55.7#

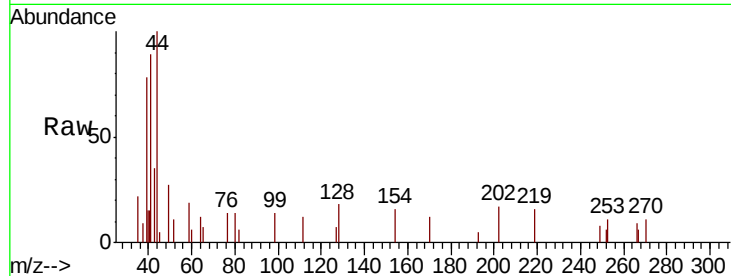
86 1.1 49.4 74.0#



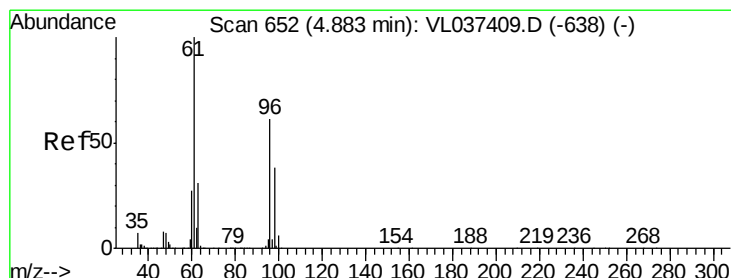
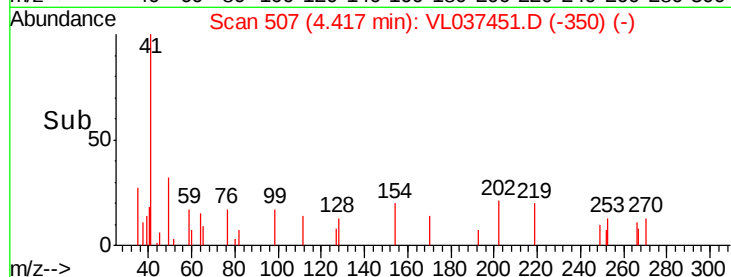
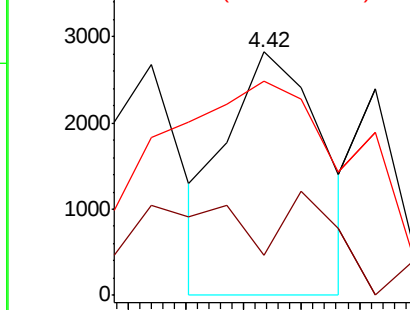
#21  
Allvl Chloride  
Concen: 0.017 ppbv  
RT: 4.42 min Scan# 507  
Delta R.T. 0.01 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 41 Resp: 1622  
Ion Ratio Lower Upper  
41 100  
76 91.0 23.7 35.5#  
39 361.8 62.3 93.5#

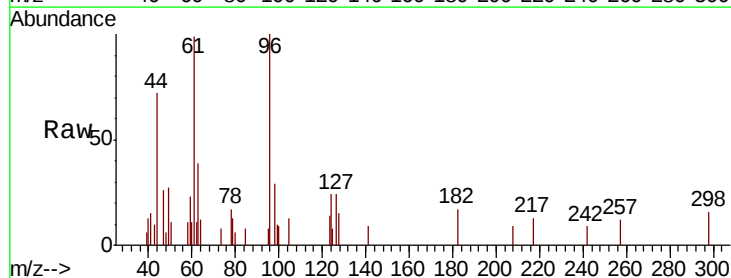


Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0

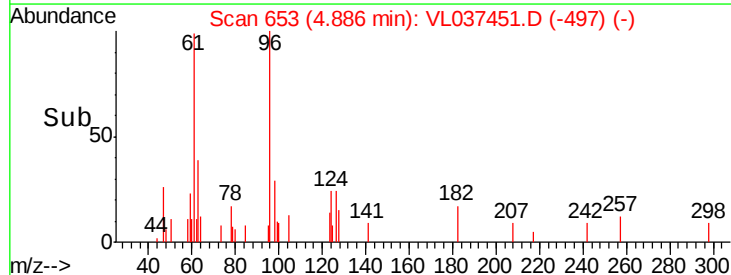
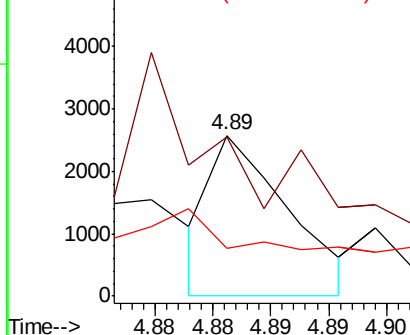


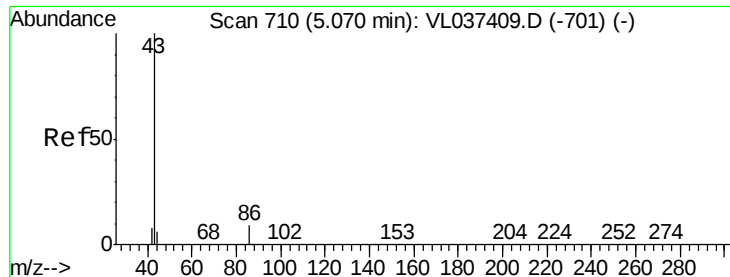
#22  
trans-1,2-Dichloroethene  
Concen: 0.021 ppbv  
RT: 4.89 min Scan# 653  
Delta R.T. 0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 96 Resp: 1202  
Ion Ratio Lower Upper  
96 100  
61 57.5 131.0 196.4#  
98 0.0 50.2 75.4#



Abundance Ion 96.00 (95.70 to 96.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0

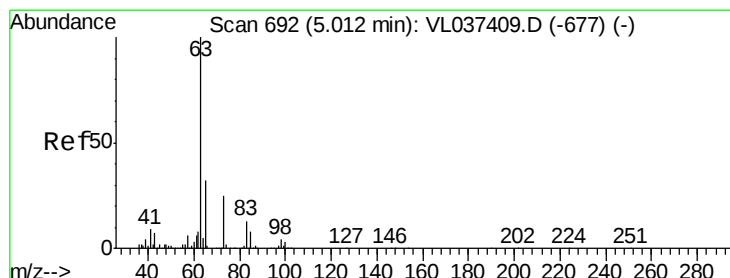
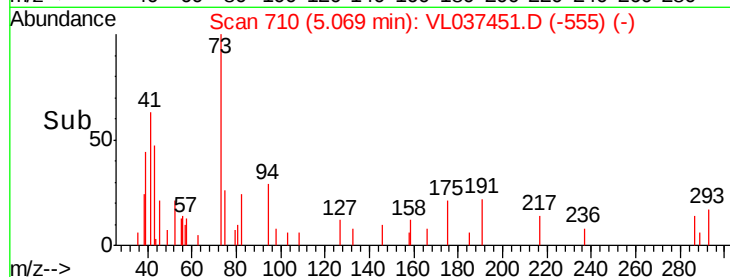
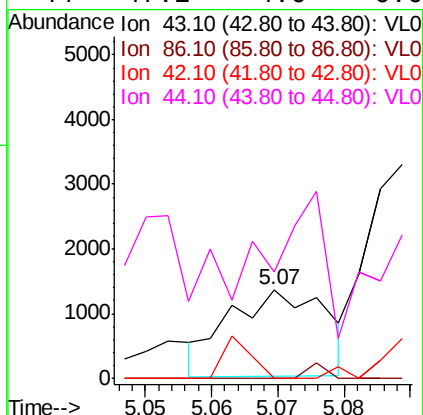
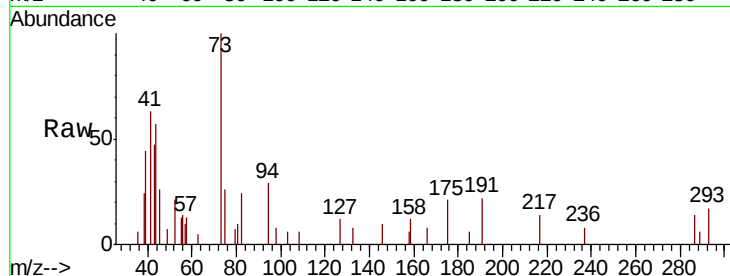




#23  
 Vinyl Acetate  
 Concen: 0.007 ppbv  
 RT: 5.07 min Scan# 710  
 Delta R.T. -0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

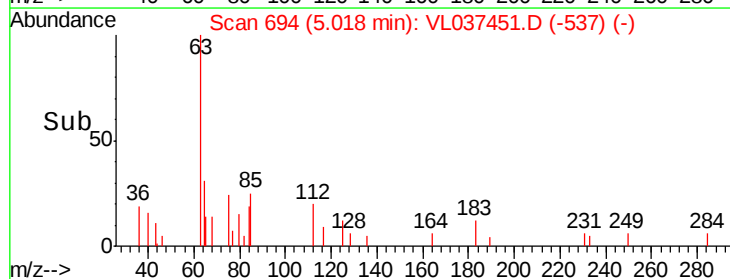
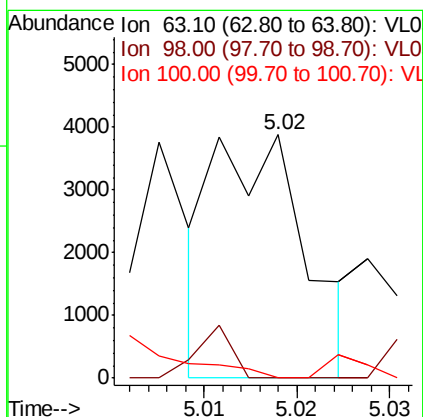
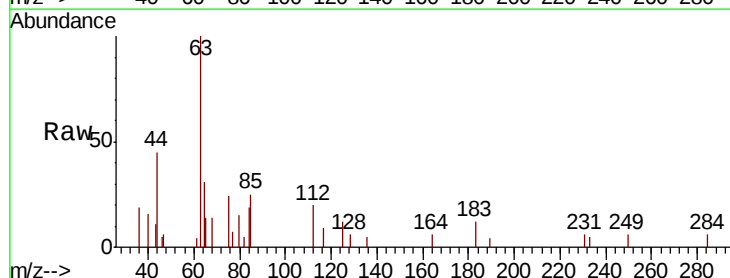
Instrument :  
 MSVOA\_L  
 ClientSampleId :

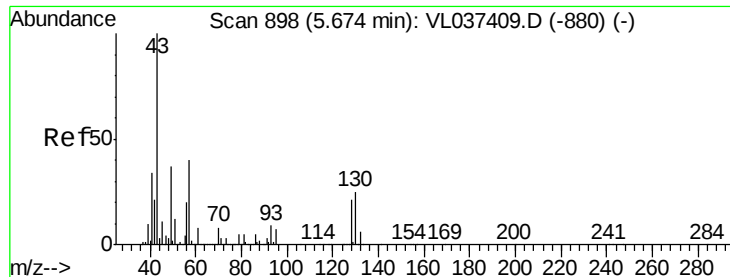
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 1354  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 5.8   | 8.8#  |
| 42       | 0.0   | 7.7   | 11.5# |
| 44       | 47.2  | 4.0   | 6.0#  |



#24  
 1,1-Dichloroethane  
 Concen: 0.019 ppbv  
 RT: 5.02 min Scan# 694  
 Delta R.T. 0.01 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 2649  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 2.1   | 6.3#  |
| 100      | 0.0   | 1.6   | 4.7#  |





#25

Ethyl Acetate

Concen: 0.005 ppbv

RT: 5.68 min Scan# 899

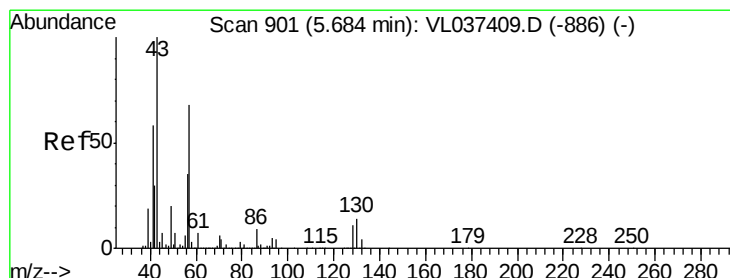
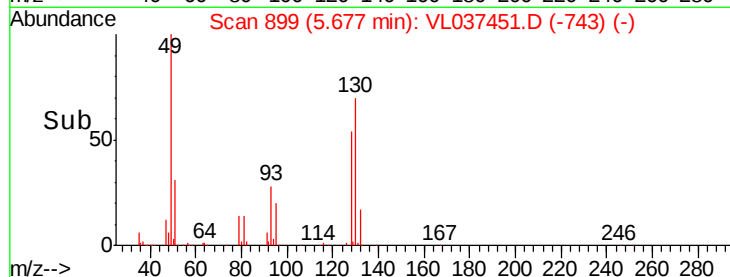
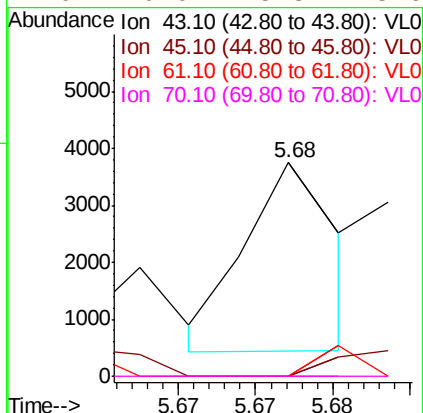
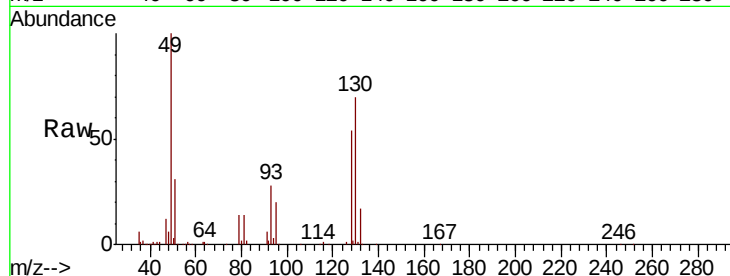
Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :  
MSVOA\_L  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 43    | Resp: | 1355  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 0.0   | 7.9   | 11.9# |
| 61       | 0.0   | 7.7   | 11.5# |
| 70       | 0.0   | 5.8   | 8.6#  |



#26

Hexane

Concen: 0.014 ppbv

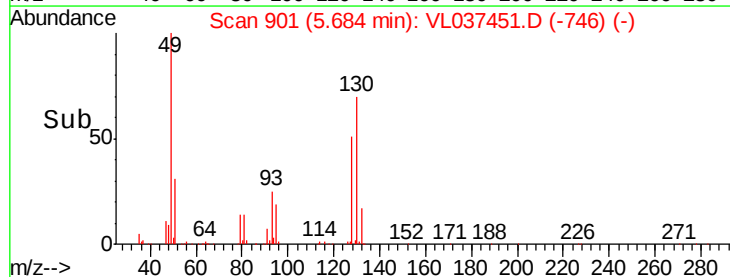
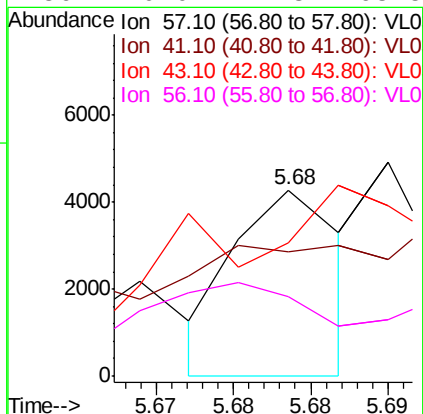
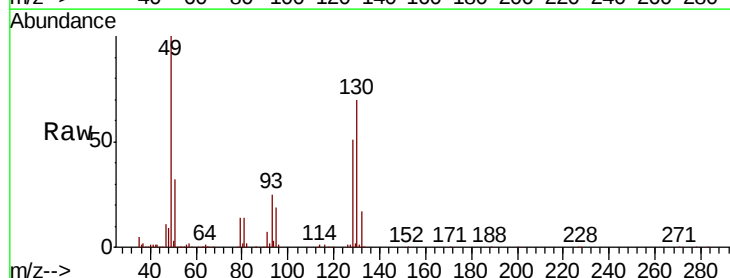
RT: 5.68 min Scan# 901

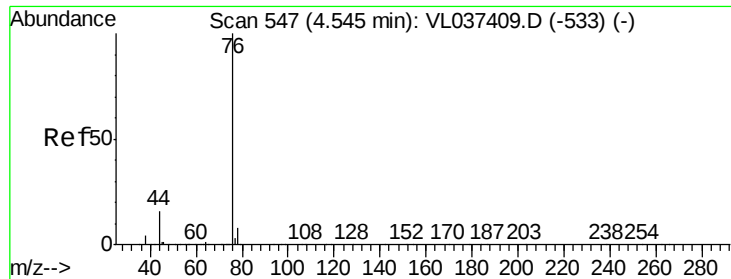
Delta R.T. -0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 2075   |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 0.0   | 72.5  | 108.7# |
| 43       | 0.0   | 169.3 | 253.9# |
| 56       | 0.0   | 42.3  | 63.5#  |





#27

Carbon Disulfide

Concen: 0.016 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

ClientSampled :

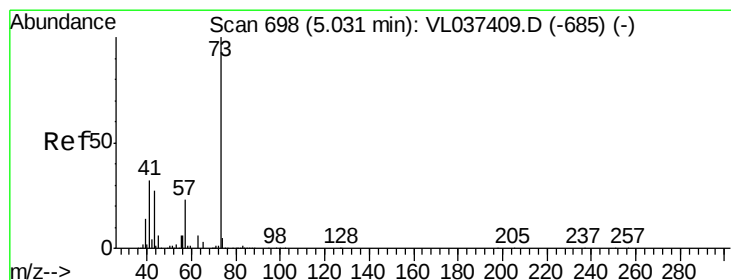
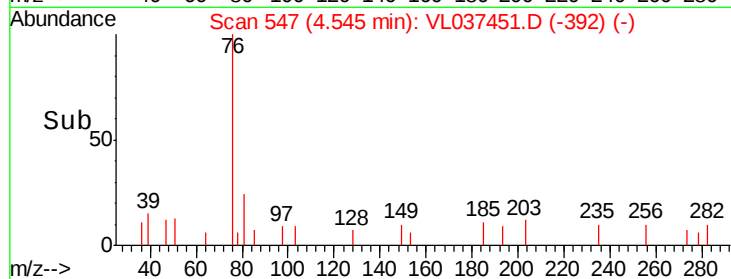
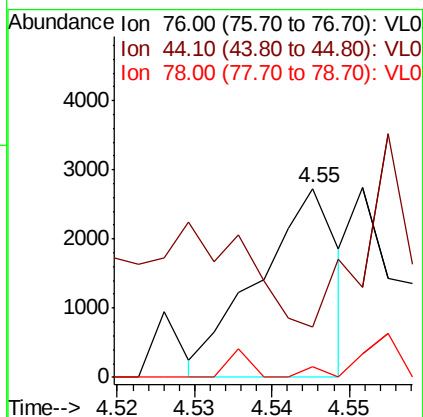
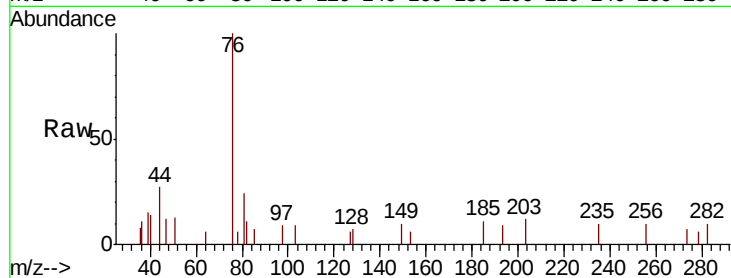
Tot Ion: 76 Resp: 1939

Ion Ratio Lower Upper

76 100

44 0.0 14.4 21.6#

78 0.0 8.0 12.0#



#28

Methyl tert-Butyl Ether

Concen: 0.001 ppbv

RT: 5.04 min Scan# 701

Delta R.T. 0.01 min

Lab File: VL037451.D

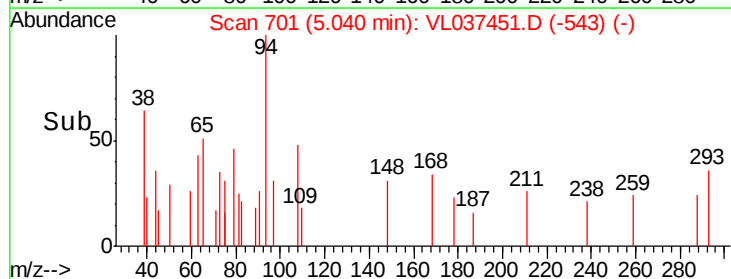
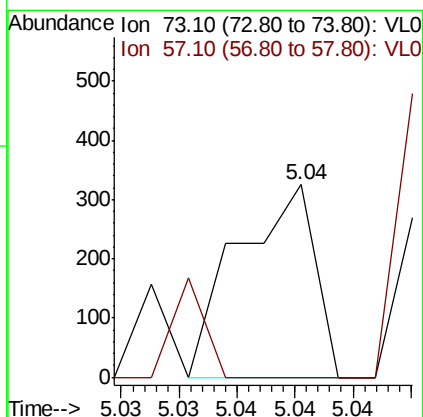
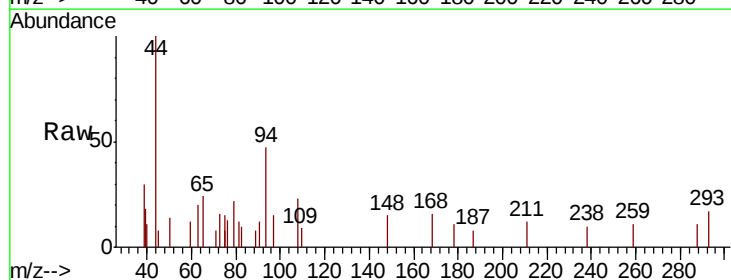
Acq: 13 Aug 2021 16:27

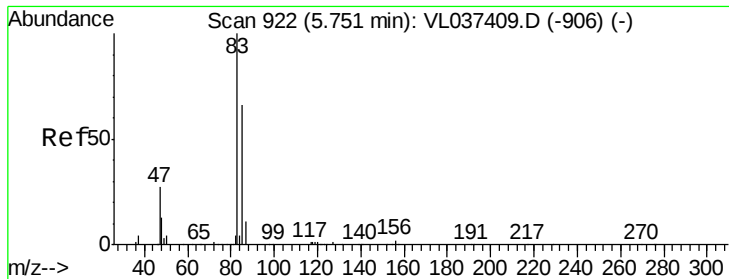
Tgt Ion: 73 Resp: 150

Ion Ratio Lower Upper

73 100

57 0.0 19.0 28.4#

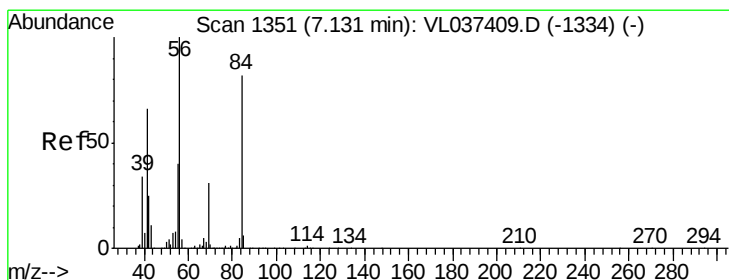
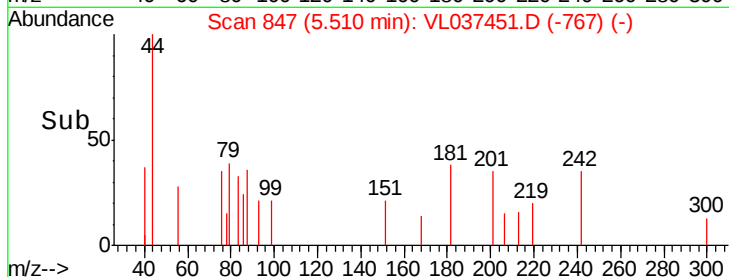
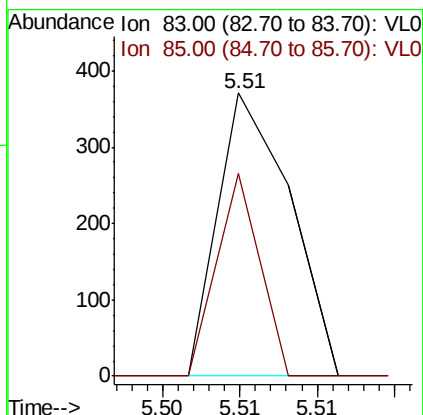
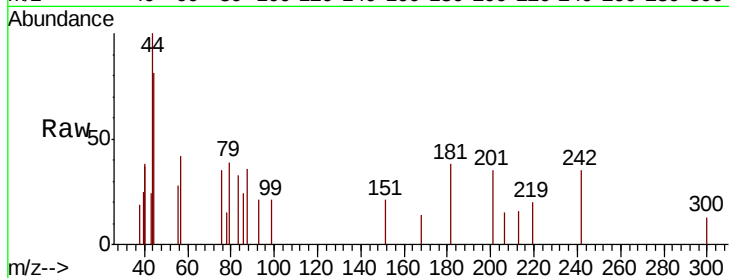




#29  
Chloroform  
Concen: 0.001 ppbv  
RT: 5.51 min Scan# 847  
Delta R.T. -0.24 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

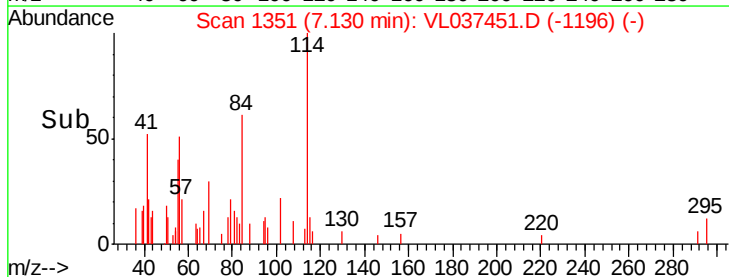
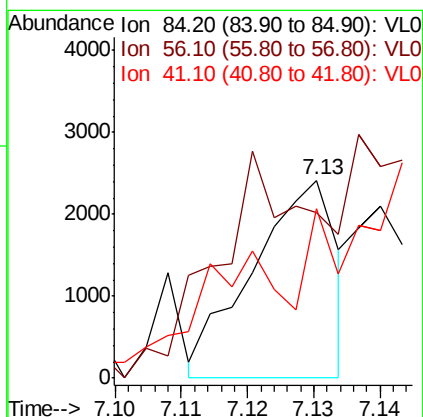
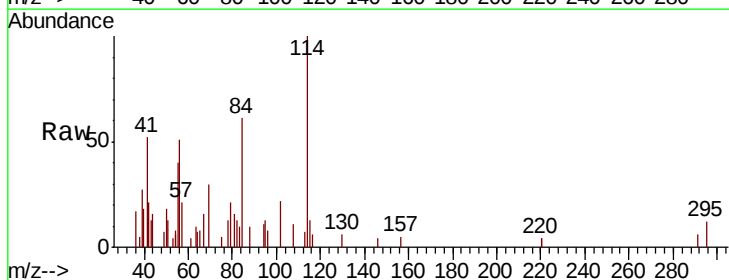
Instrument :  
MSVOA\_L  
ClientSampled :

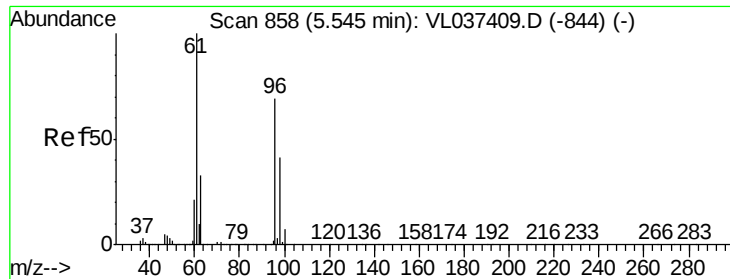
Tot Ion: 83 Resp: 120  
Ion Ratio Lower Upper  
83 100  
85 71.4 52.4 78.6



#30  
Cyclohexane  
Concen: 0.018 ppbv  
RT: 7.13 min Scan# 1351  
Delta R.T. -0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 84 Resp: 2109  
Ion Ratio Lower Upper  
84 100  
56 0.0 109.6 164.4#  
41 0.0 66.6 99.8#

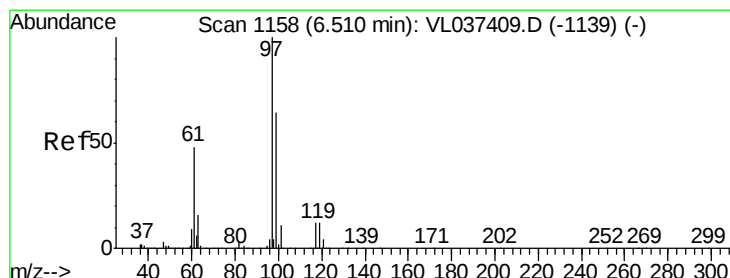
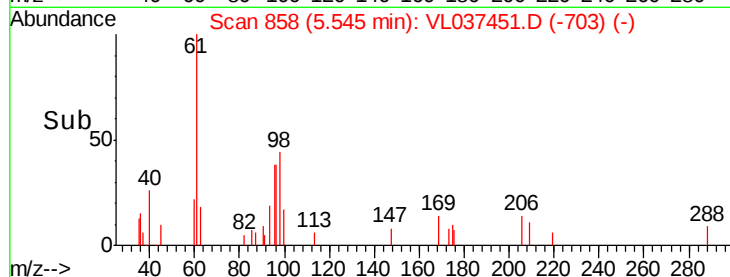
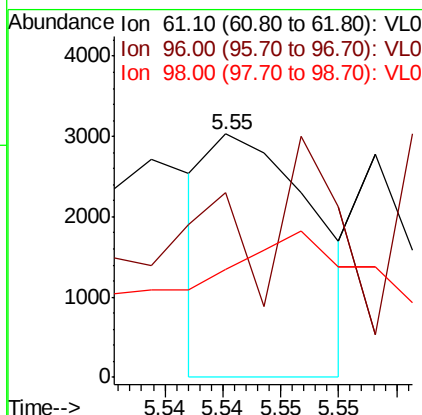
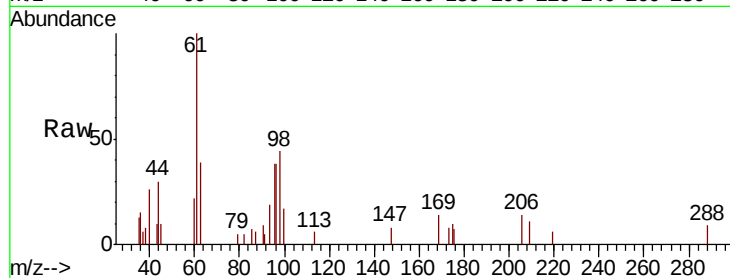




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.015 ppbv  
 RT: 5.55 min Scan# 858  
 Delta R.T. -0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

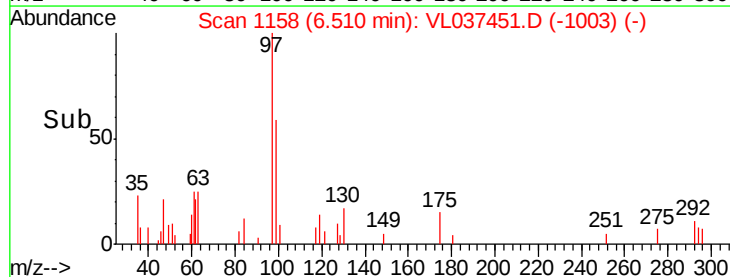
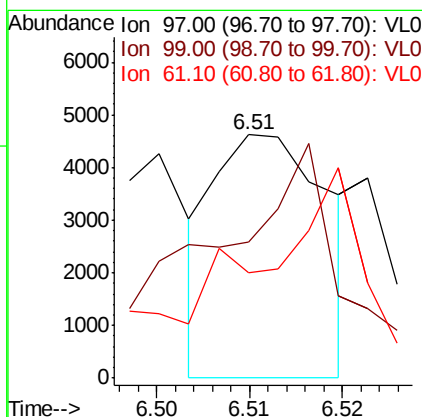
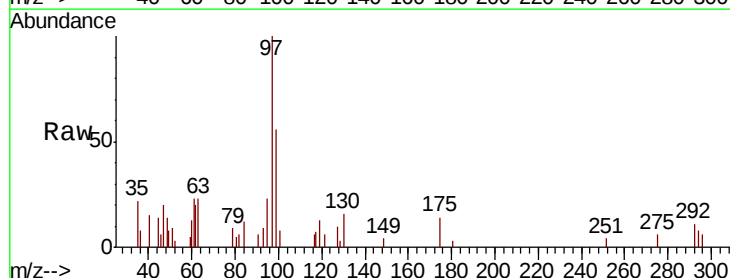
Instrument :  
 MSVOA\_L  
 ClientSampleId :

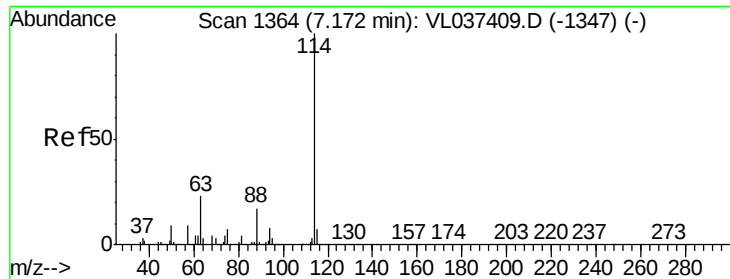
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 30.0  | 55.5  | 83.3# |
| 98      | 19.0  | 33.1  | 49.7# |



#32  
 1,1,1-Trichloroethane  
 Concen: 0.019 ppbv  
 RT: 6.51 min Scan# 1158  
 Delta R.T. -0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 0.0   | 52.3  | 78.5# |
| 61      | 0.0   | 40.1  | 60.1# |

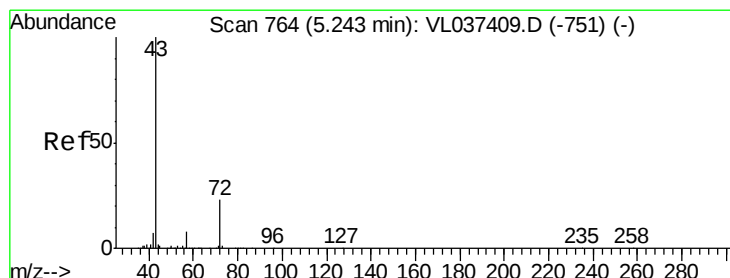
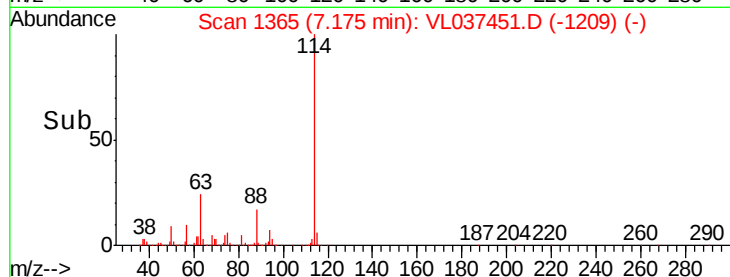
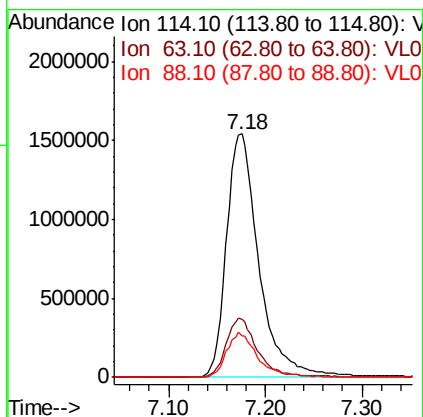
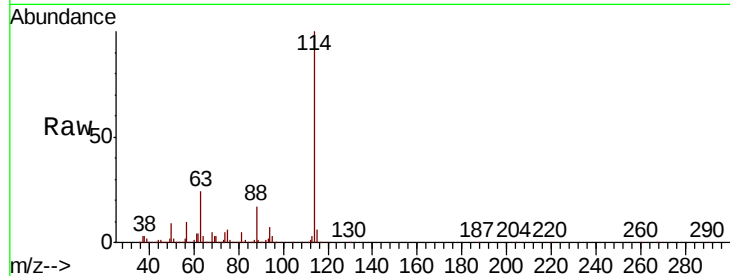




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.18 min Scan# 1365  
 Delta R.T. 0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

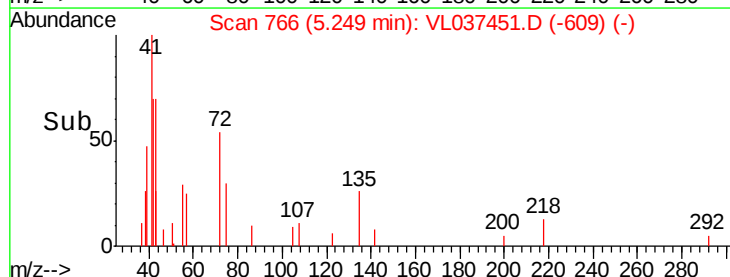
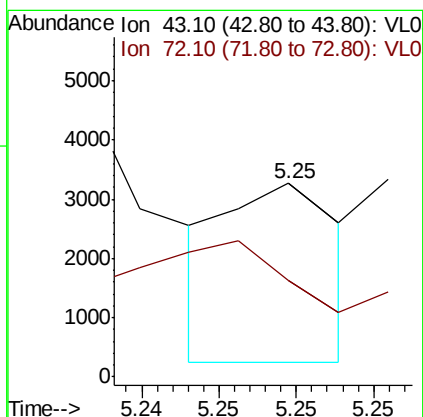
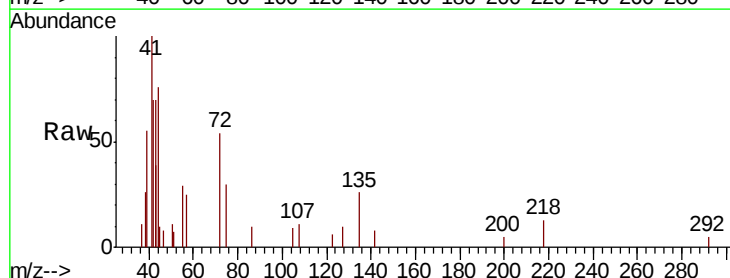
Instrument :  
 MSVOA\_L  
 ClientSampleId :

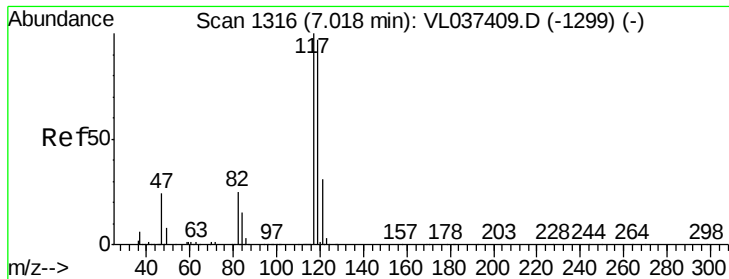
Tot Ion:114 Resp: 3580082  
 Ion Ratio Lower Upper  
 114 100  
 63 24.1 19.4 29.2  
 88 17.9 14.2 21.4



#34  
 2-Butanone  
 Concen: 0.010 ppbv  
 RT: 5.25 min Scan# 766  
 Delta R.T. 0.01 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

Tgt Ion: 43 Resp: 1536  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 17.7 26.5#

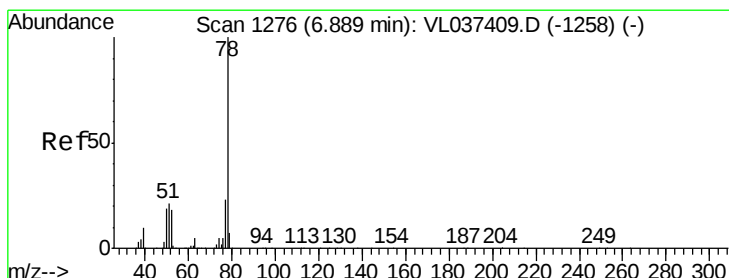
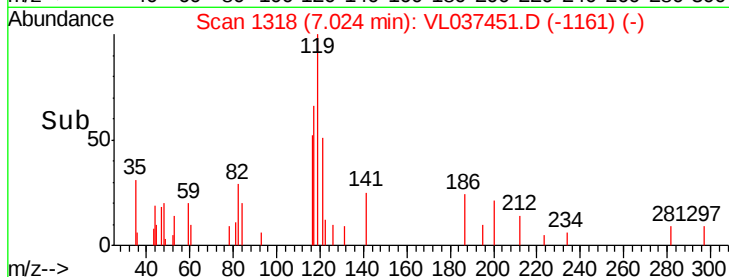
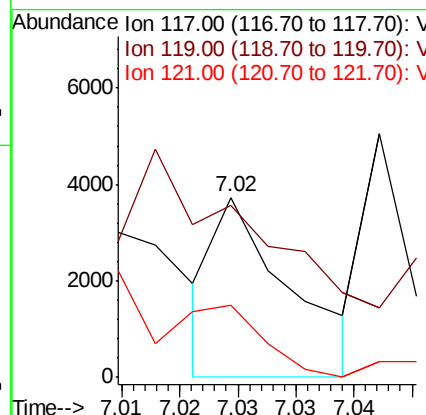
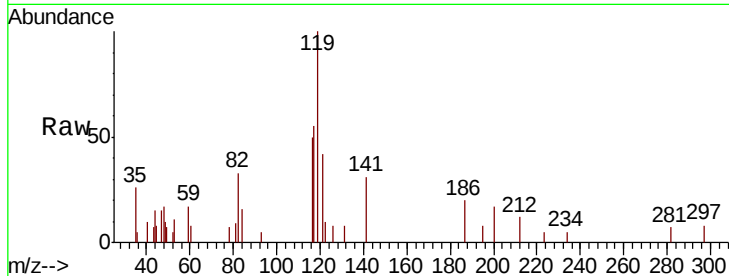




#35  
Carbon Tetrachloride  
Concen: 0.008 ppbv  
RT: 7.02 min Scan# 1318  
Delta R.T. 0.01 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

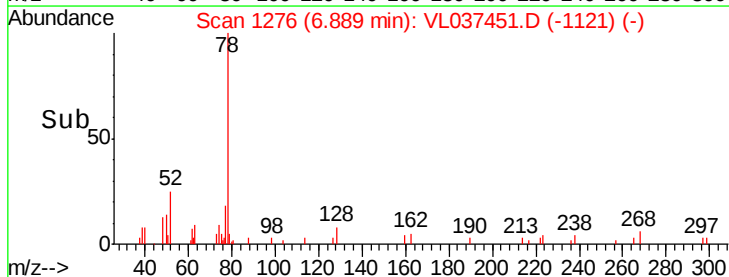
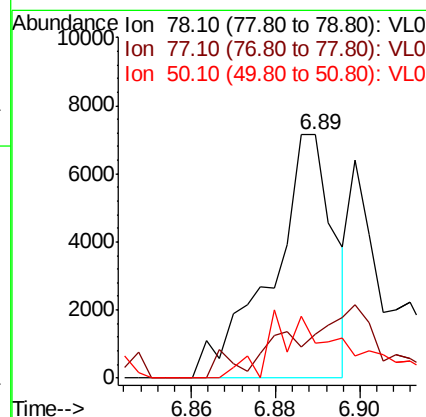
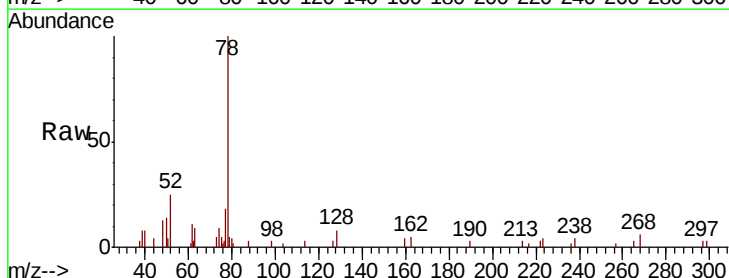
Instrument :  
MSVOA\_L  
ClientSampled :

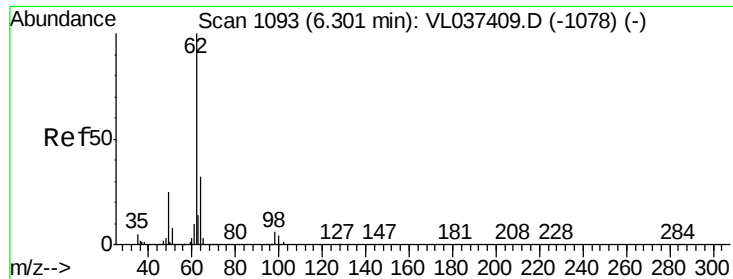
Tot Ion:117 Resp: 1697  
Ion Ratio Lower Upper  
117 100  
119 73.3 77.5 116.3#  
121 61.4 24.7 37.1#



#36  
Benzene  
Concen: 0.024 ppbv  
RT: 6.89 min Scan# 1276  
Delta R.T. -0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 78 Resp: 7267  
Ion Ratio Lower Upper  
78 100  
77 17.2 18.6 27.8#  
50 17.0 14.9 22.3

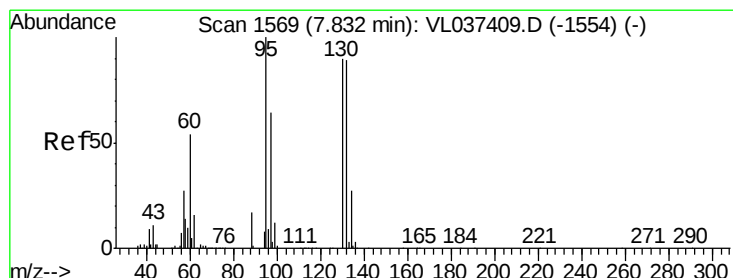
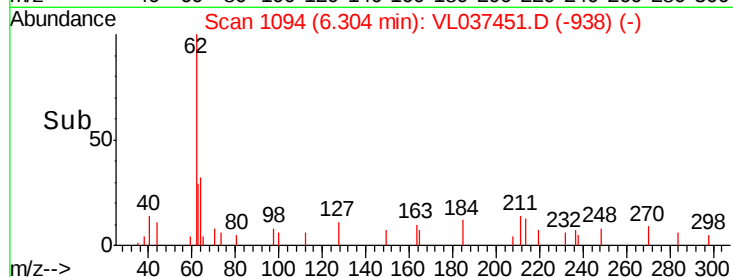
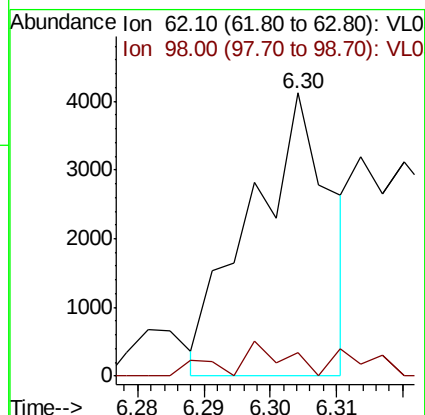
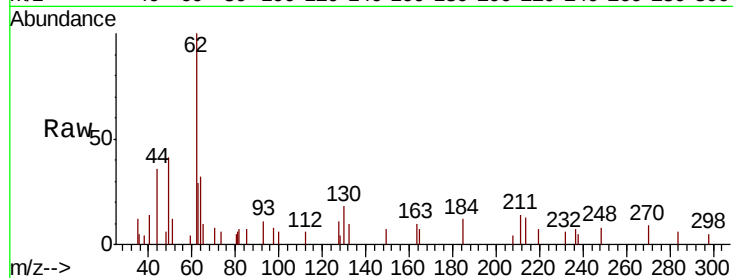




#37  
 1,2-Dichloroethane  
 Concen: 0.022 ppbv  
 RT: 6.30 min Scan# 1094  
 Delta R.T. 0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

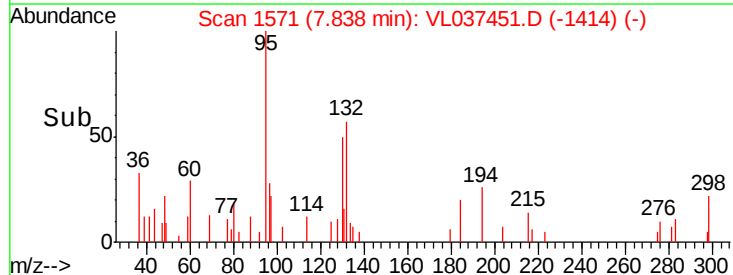
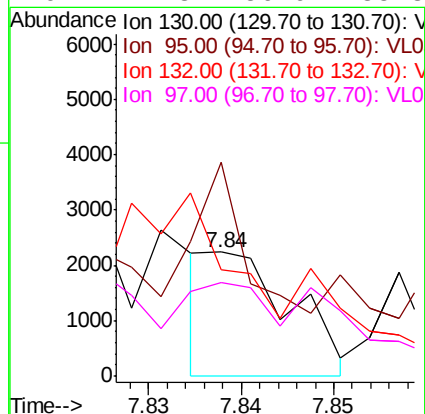
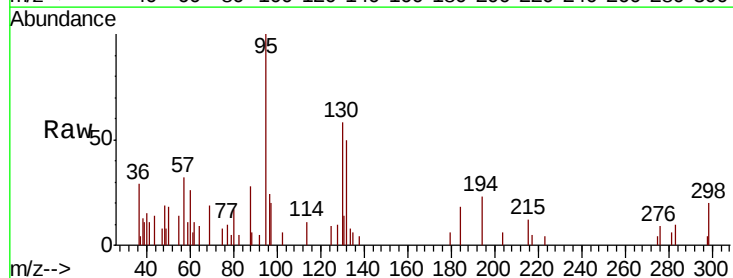
Instrument :  
 MSVOA\_L  
 ClientSampled :

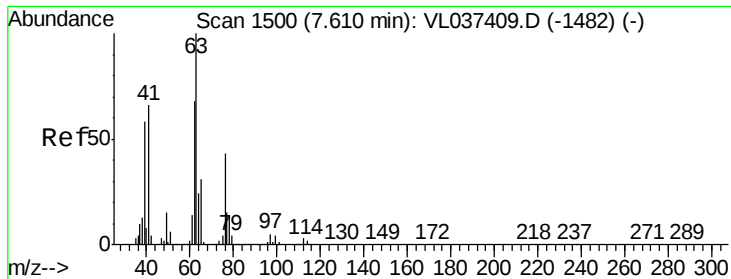
Tot Ion: 62 Resp: 3442  
 Ion Ratio Lower Upper  
 62 100  
 98 14.8 5.4 8.2#



#38  
 Trichloroethene  
 Concen: 0.010 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. 0.01 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

Tgt Ion: 130 Resp: 1386  
 Ion Ratio Lower Upper  
 130 100  
 95 82.6 88.6 132.8#  
 132 28.4 79.2 118.8#  
 97 21.3 56.9 85.3#

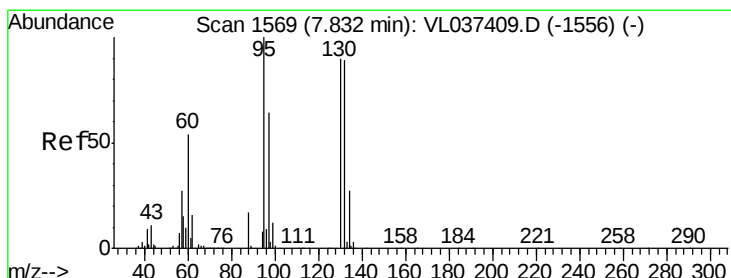
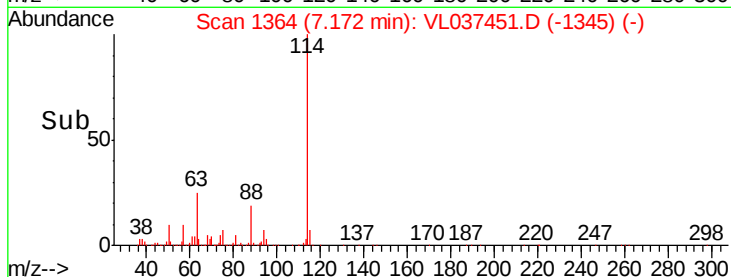
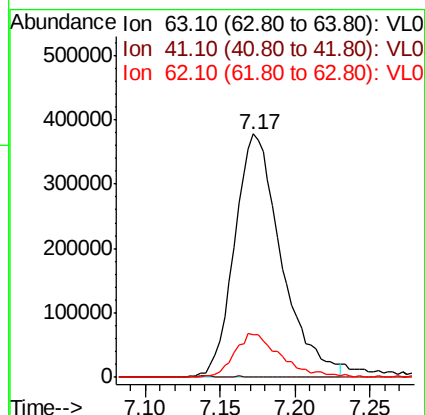
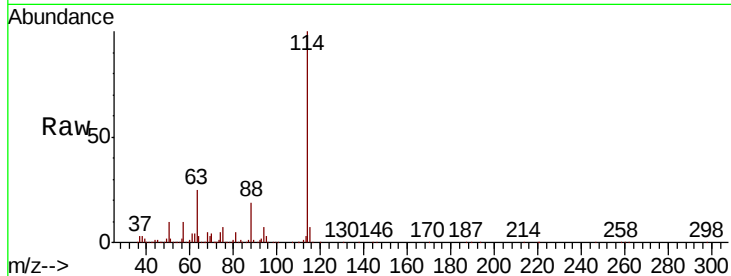




#39  
 1,2-Dichloropropane  
 Concen: 7.114 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. -0.44 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

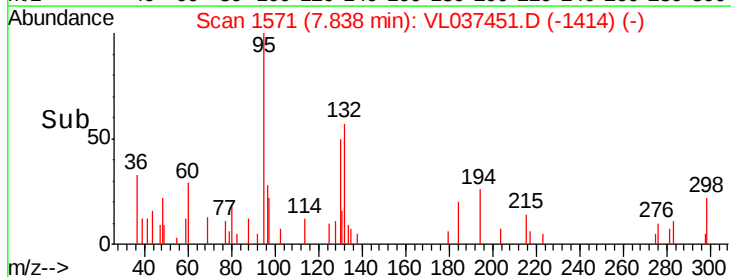
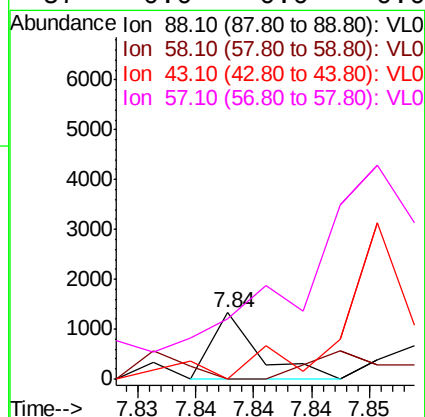
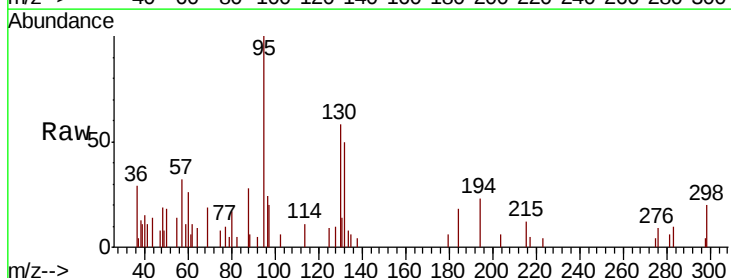
Instrument :  
 MSVOA\_L  
 ClientSampled :

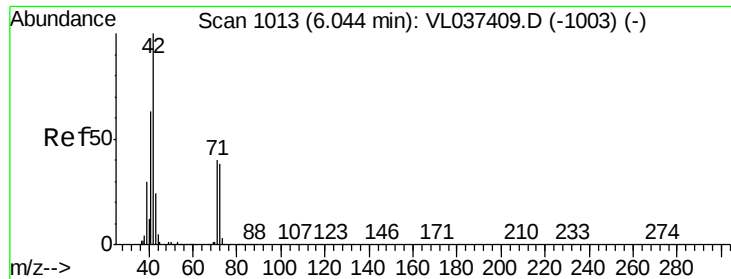
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 0.0   | 53.0  | 79.6# |
| 62      | 17.3  | 54.5  | 81.7# |



#40  
 1,4-Dioxane  
 Concen: 0.013 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. 0.01 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 0.0   | 0.0   | 0.0   |
| 43      | 0.0   | 0.0   | 0.0   |
| 57      | 0.0   | 0.0   | 0.0   |

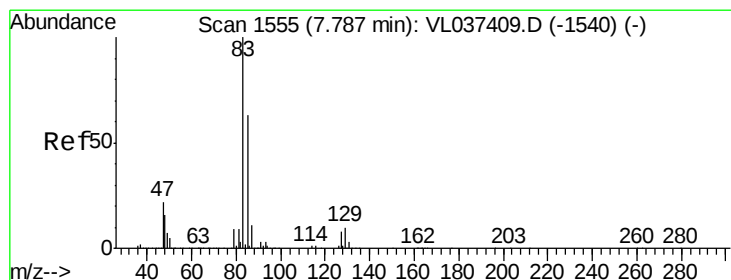
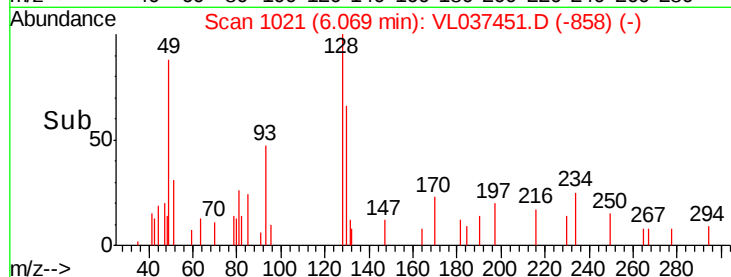
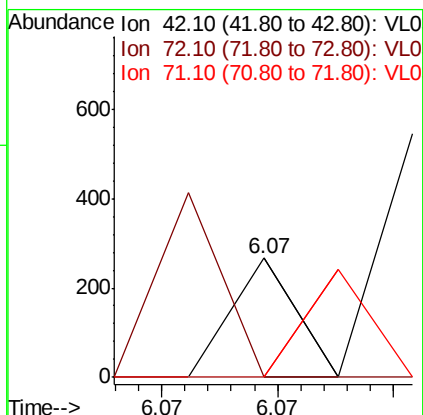
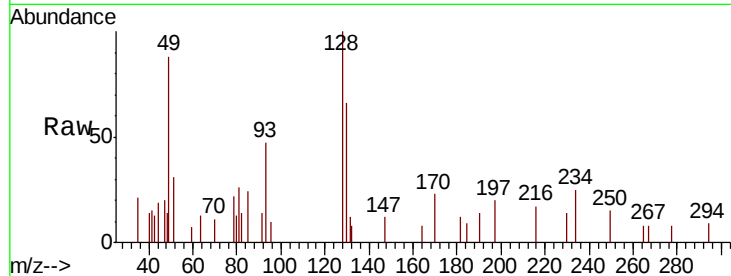




#41  
Tetrahydrofuran  
Concen: 0.001 ppbv  
RT: 6.07 min Scan# 1021  
Delta R.T. 0.03 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

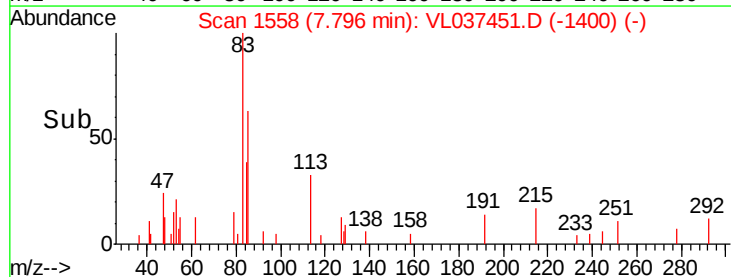
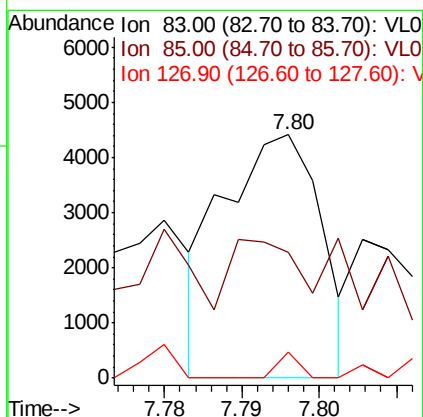
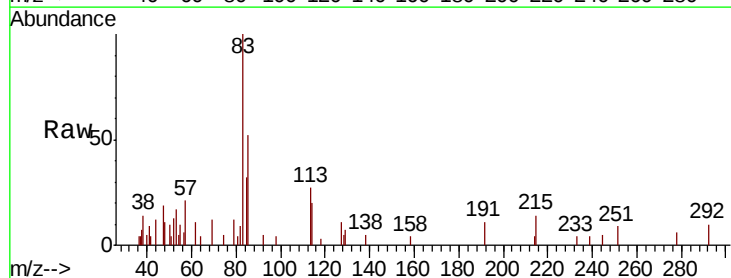
Instrument :  
MSVOA\_L  
ClientSampled :

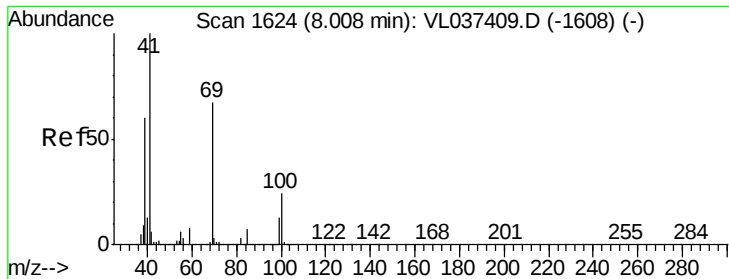
Tot Ion: 42 Resp: 52  
Ion Ratio Lower Upper  
42 100  
72 209.6 33.5 50.3#  
71 0.0 32.6 48.8#



#42  
Bromodichloromethane  
Concen: 0.018 ppbv  
RT: 7.80 min Scan# 1558  
Delta R.T. 0.01 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 83 Resp: 3899  
Ion Ratio Lower Upper  
83 100  
85 8.0 50.2 75.2#  
127 15.9 6.6 9.8#

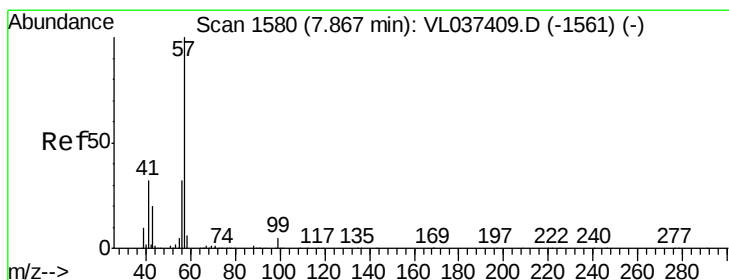
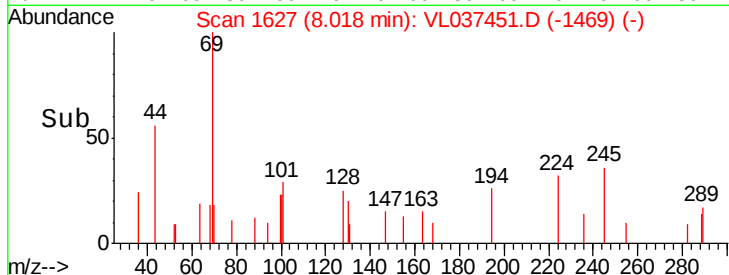
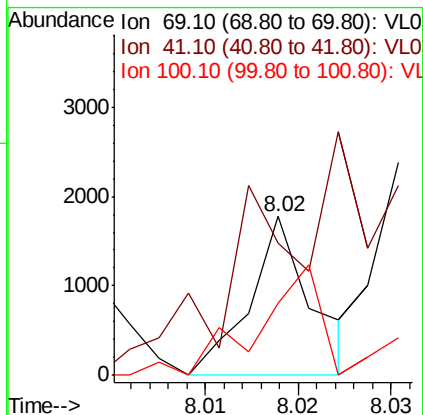
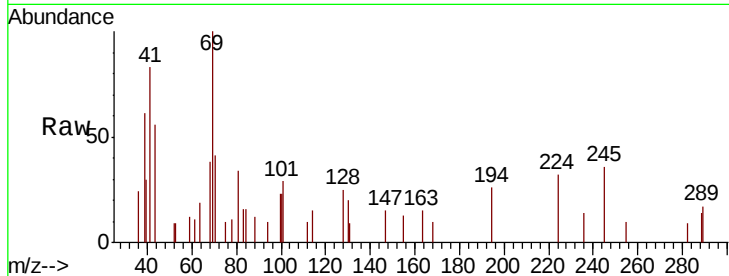




#43  
Methyl Methacrylate  
Concen: 0.008 ppbv  
RT: 8.02 min Scan# 1627  
Delta R.T. 0.01 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

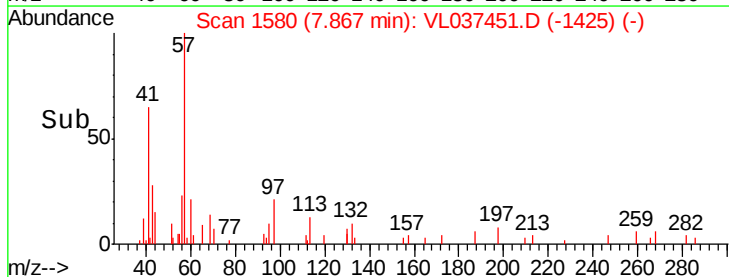
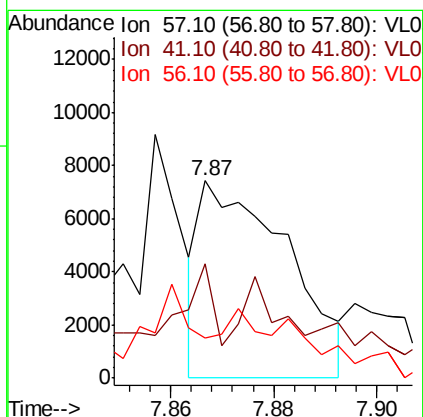
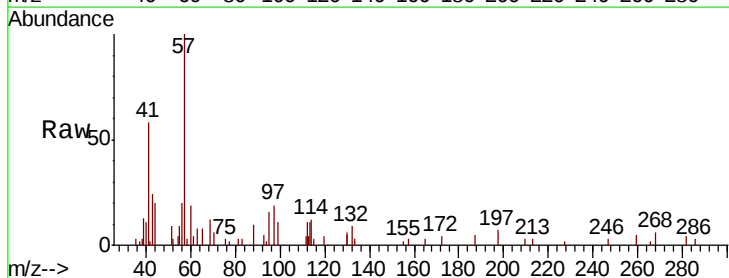
Instrument :  
MSVOA\_L  
ClientSampled :

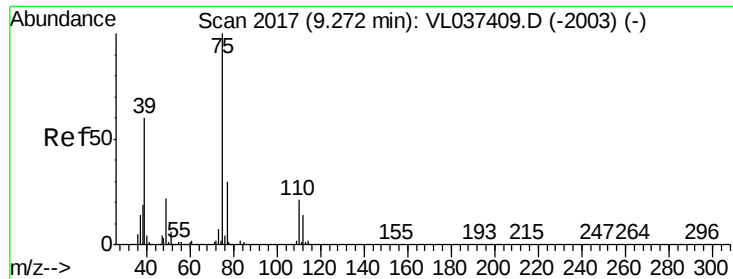
Tot Ion: 69 Resp: 812  
Ion Ratio Lower Upper  
69 100  
41 0.0 118.1 177.1#  
100 137.2 27.6 41.4#



#44  
2,2,4-Trimethylpentane  
Concen: 0.017 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. -0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 57 Resp: 8761  
Ion Ratio Lower Upper  
57 100  
41 101.9 26.4 39.6#  
56 0.0 25.0 37.4#





#45

t-1,3-Dichloropropene

Concen: 0.006 ppbv

RT: 9.28 min Scan# 2019

Delta R.T. 0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

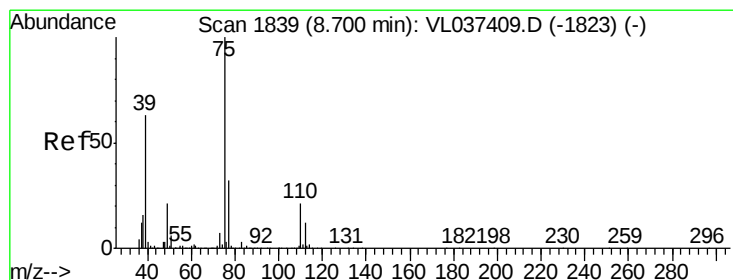
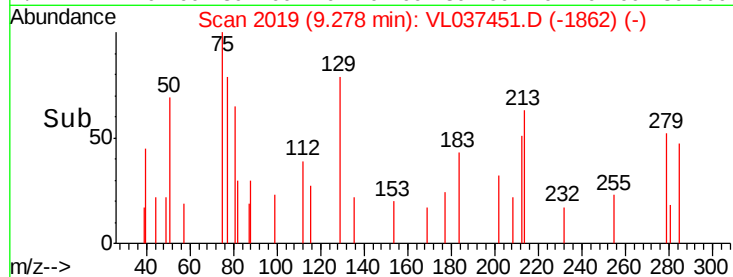
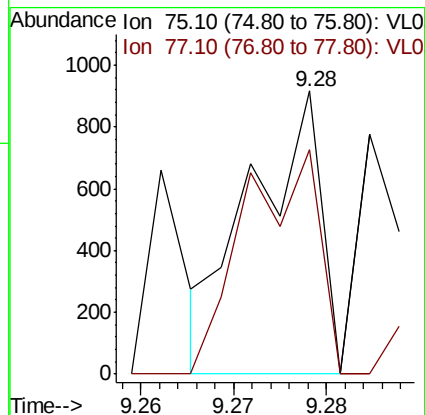
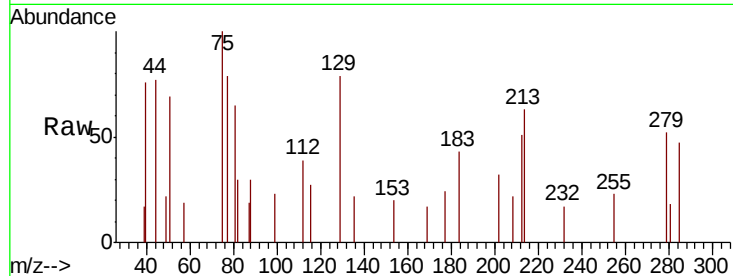
Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 75 Resp: 473

Ion Ratio Lower Upper

75 100

77 79.2 24.2 36.2#



#46

cis-1,3-Dichloropropene

Concen: 0.010 ppbv

RT: 8.71 min Scan# 1842

Delta R.T. 0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

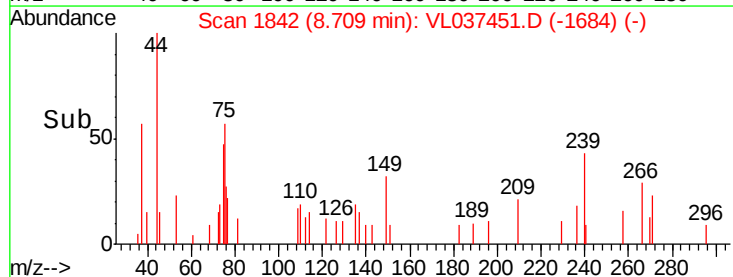
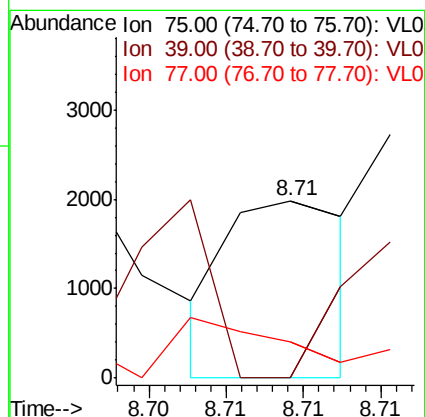
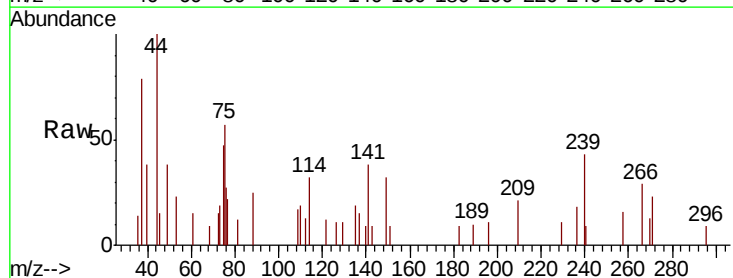
Tgt Ion: 75 Resp: 1087

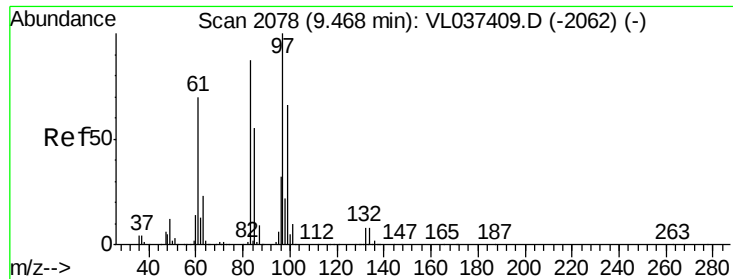
Ion Ratio Lower Upper

75 100

39 0.0 50.1 75.1#

77 20.7 25.8 38.8#

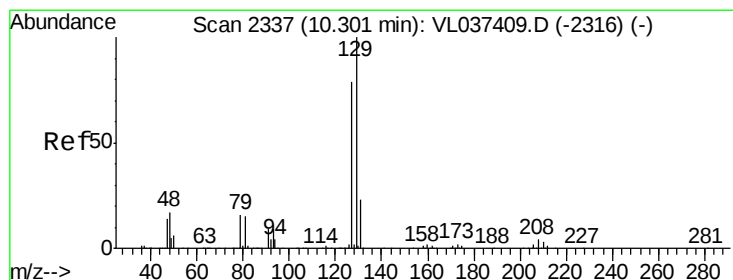
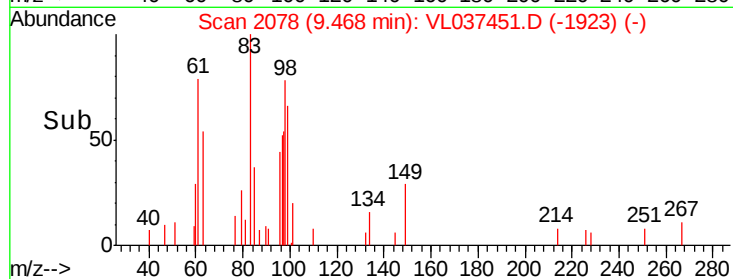
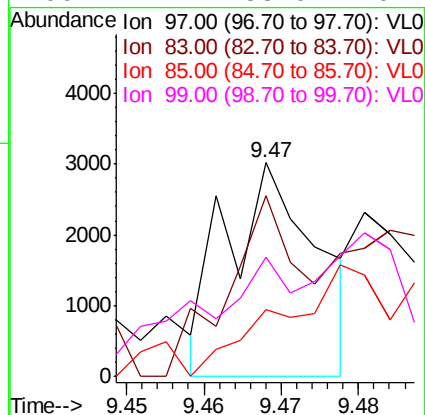
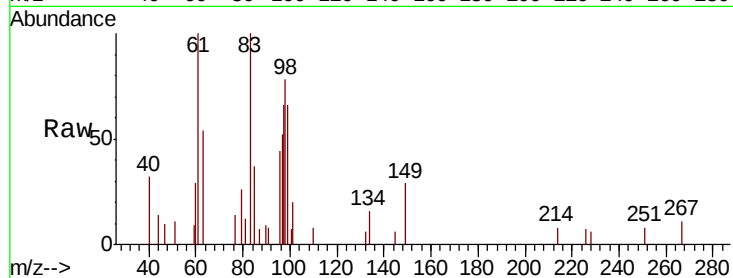




#47  
 1,1,2-Trichloroethane  
 Concen: 0.020 ppbv  
 RT: 9.47 min Scan# 2078  
 Delta R.T. -0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

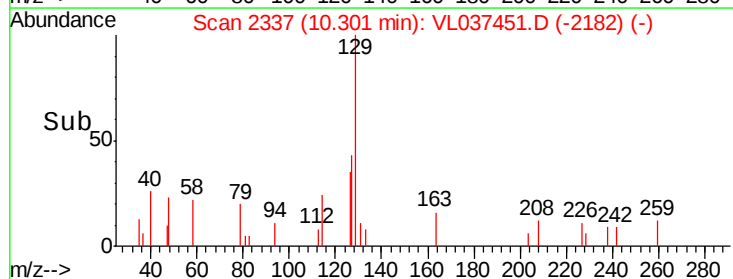
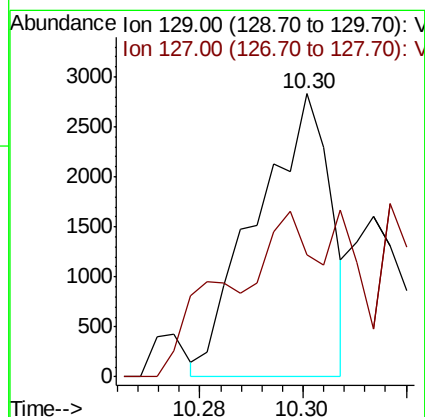
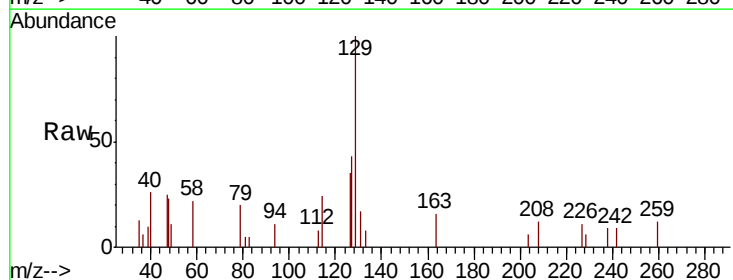
Instrument :  
 MSVOA\_L  
 ClientSampleId :

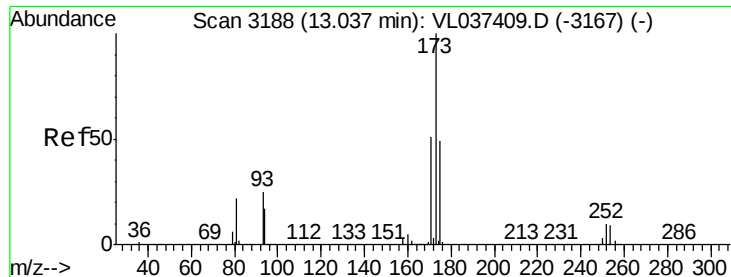
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 2443   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 65.4  | 69.5  | 104.3# |
| 85       | 38.3  | 43.8  | 65.8#  |
| 99       | 14.4  | 53.0  | 79.4#  |



#48  
 Dibromochloromethane  
 Concen: 0.016 ppbv  
 RT: 10.30 min Scan# 2337  
 Delta R.T. -0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 2825   |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 0.0   | 39.6  | 118.8# |





#49

Bromoform

Concen: 0.005 ppbv

RT: 13.04 min Scan# 3189

Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

ClientSampleId :

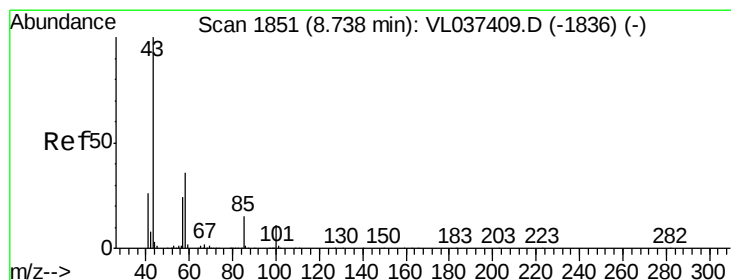
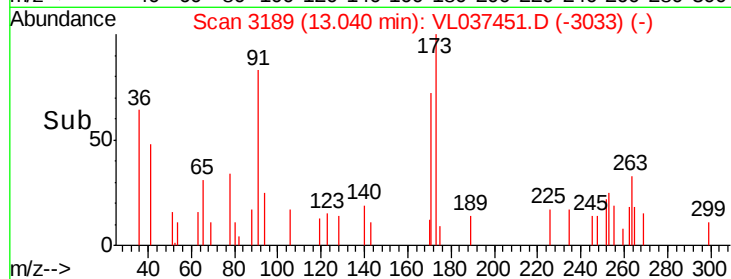
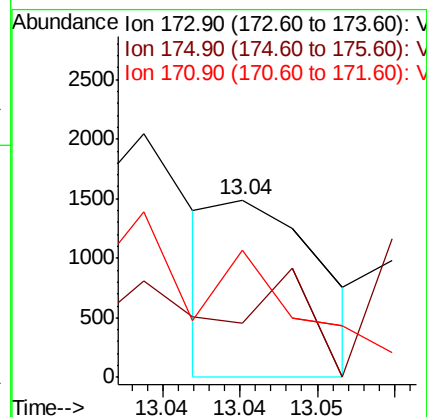
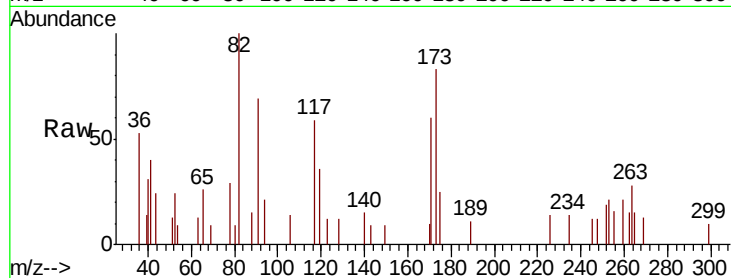
Tot Ion:173 Resp: 675

Ion Ratio Lower Upper

173 100

175 0.0 39.9 59.9#

171 0.0 41.4 62.2#



#50

4-Methyl-2-Pentanone

Concen: 0.001 ppbv

RT: 8.74 min Scan# 1851

Delta R.T. -0.00 min

Lab File: VL037451.D

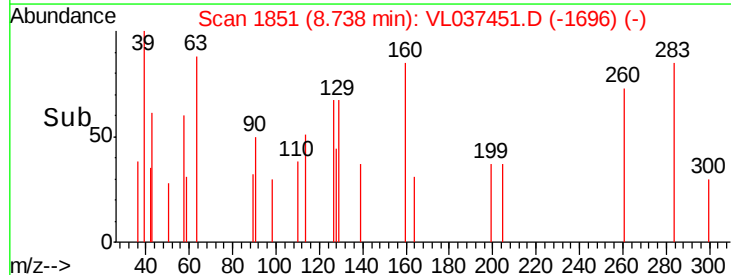
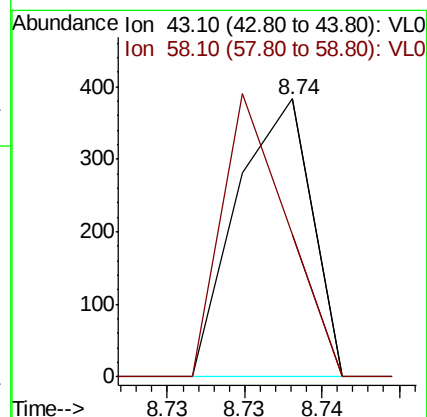
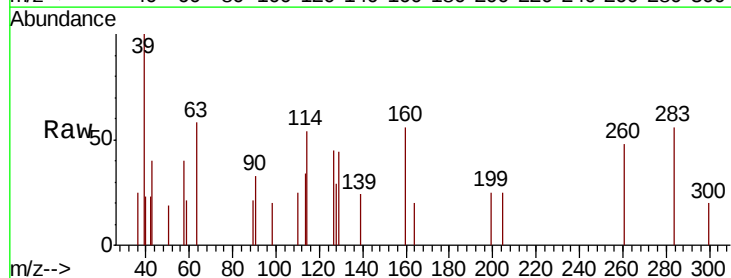
Acq: 13 Aug 2021 16:27

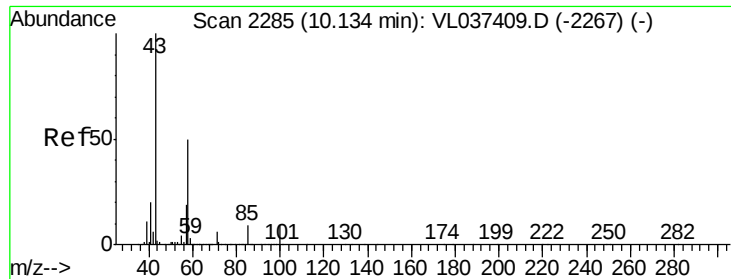
Tgt Ion: 43 Resp: 128

Ion Ratio Lower Upper

43 100

58 88.3 29.9 44.9#

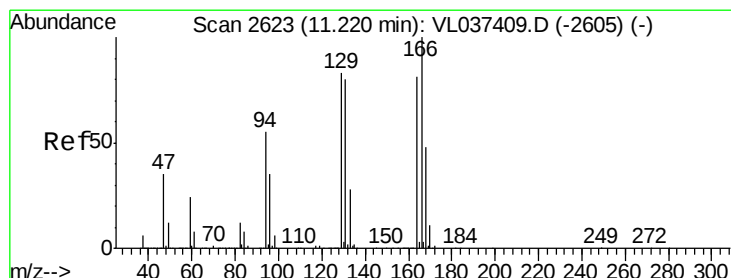
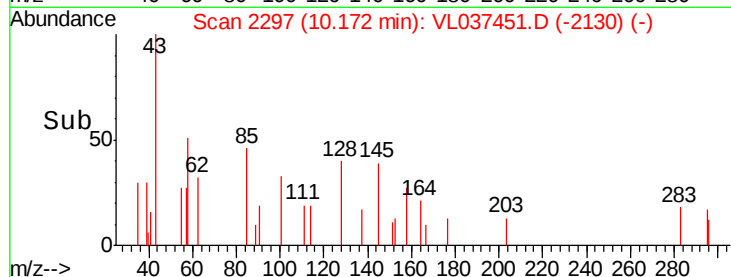
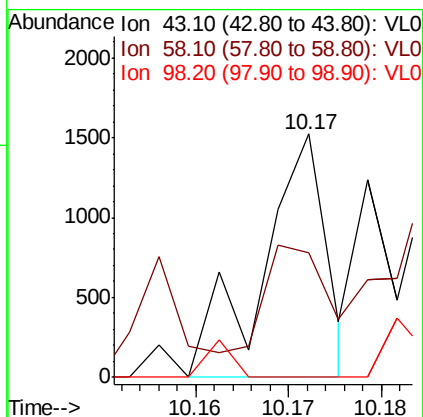
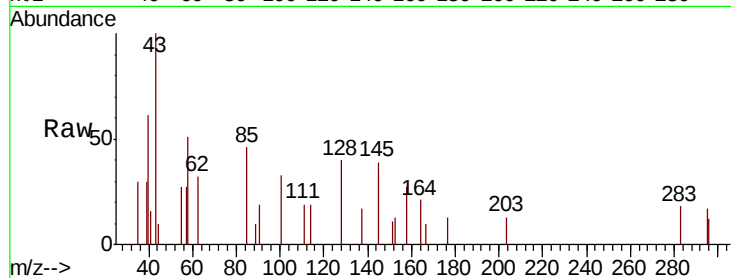




#51  
2-Hexanone  
Concen: 0.008 ppbv  
RT: 10.17 min Scan# 2297  
Delta R.T. 0.04 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

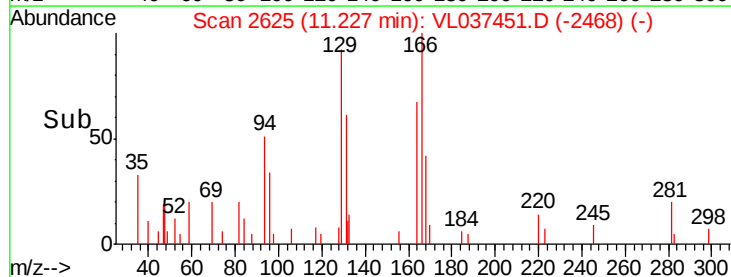
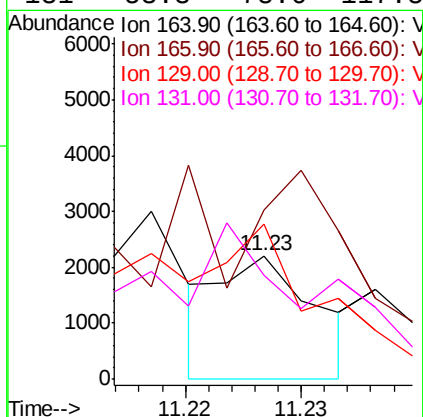
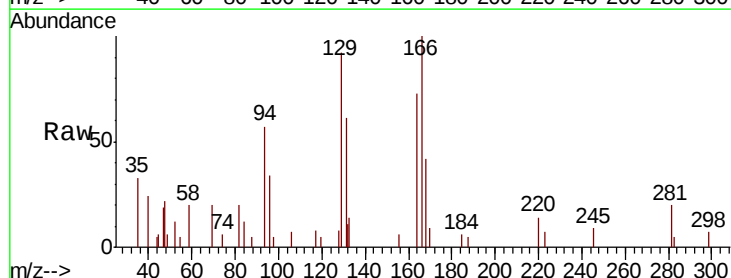
Instrument :  
MSVOA\_L  
ClientSampleId :

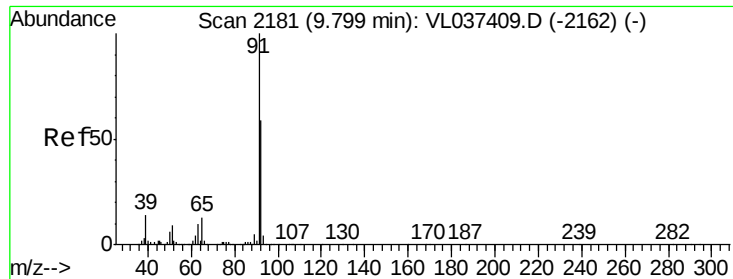
Tot Ion: 43 Resp: 724  
Ion Ratio Lower Upper  
43 100  
58 0.0 39.9 59.9#  
98 0.0 0.2 0.2#



#52  
Tetrachloroethene  
Concen: 0.010 ppbv  
RT: 11.23 min Scan# 2625  
Delta R.T. 0.01 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 164 Resp: 1256  
Ion Ratio Lower Upper  
164 100  
166 34.6 98.6 147.8#  
129 130.2 82.0 123.0#  
131 53.3 78.6 117.8#





#53

Toluene

Concen: 0.013 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

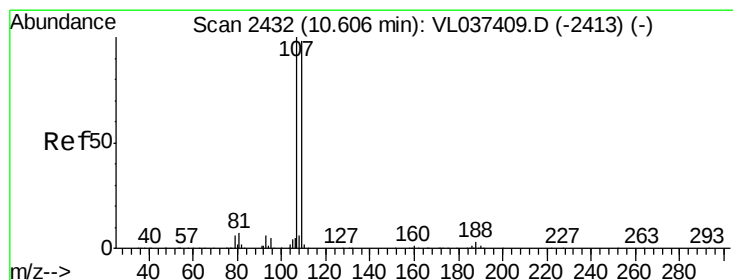
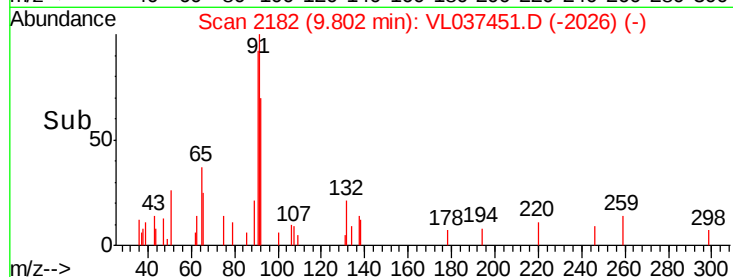
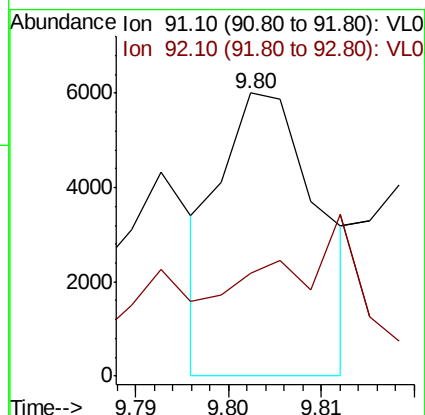
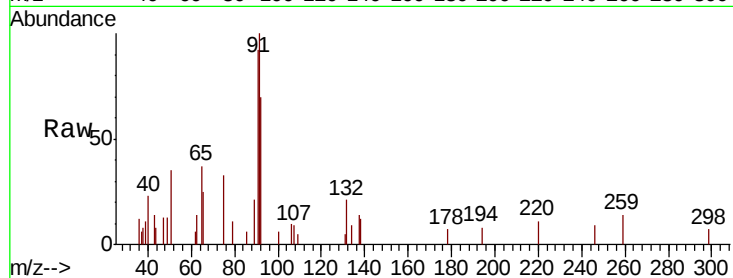
ClientSampleId :

Tot Ion: 91 Resp: 4417

Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.6#



#54

1,2-Dibromoethane

Concen: 0.008 ppbv

RT: 10.60 min Scan# 2429

Delta R.T. -0.01 min

Lab File: VL037451.D

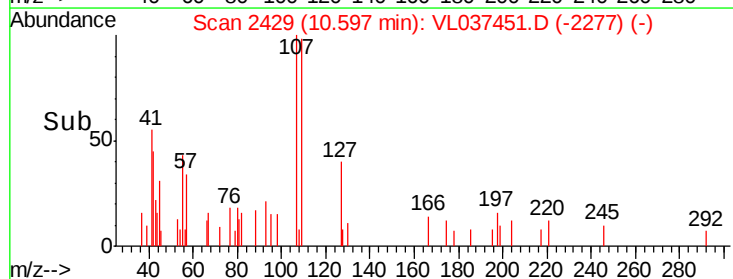
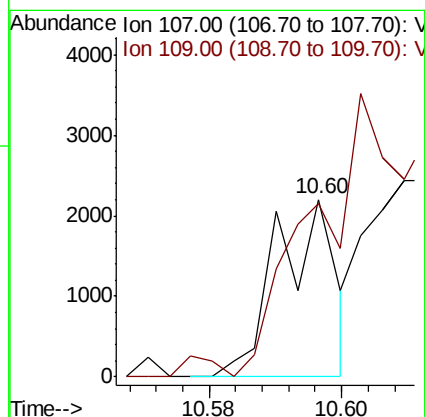
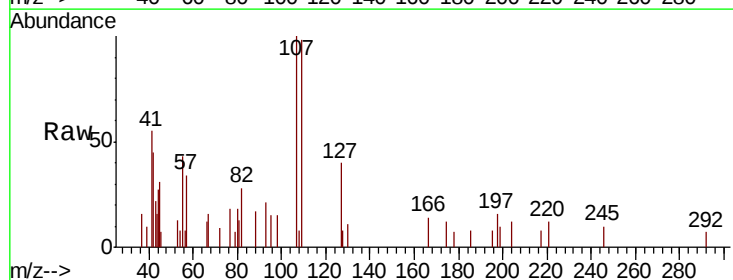
Acq: 13 Aug 2021 16:27

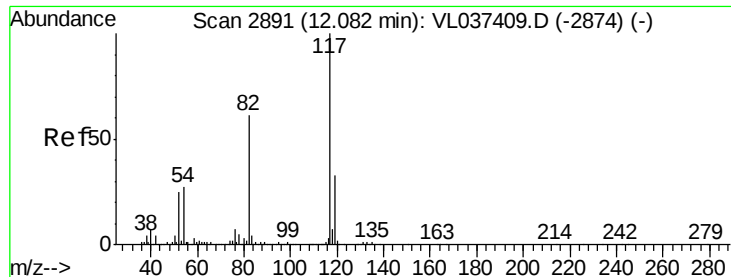
Tgt Ion: 107 Resp: 1343

Ion Ratio Lower Upper

107 100

109 86.0 78.4 117.6

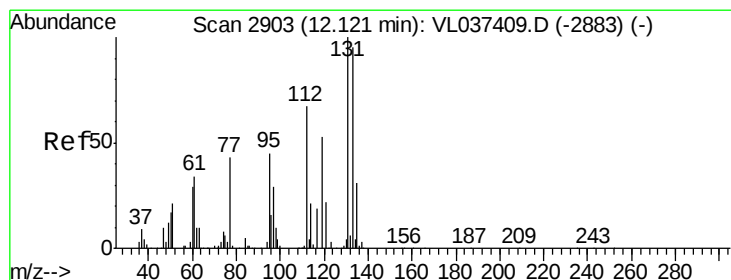
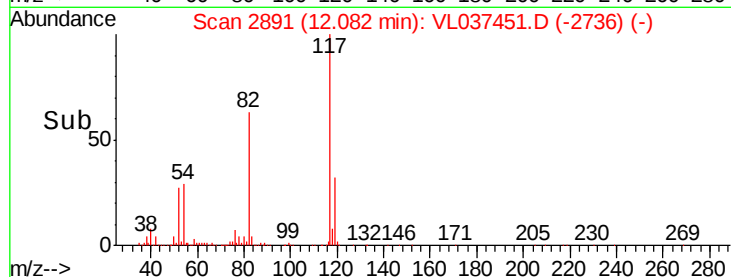
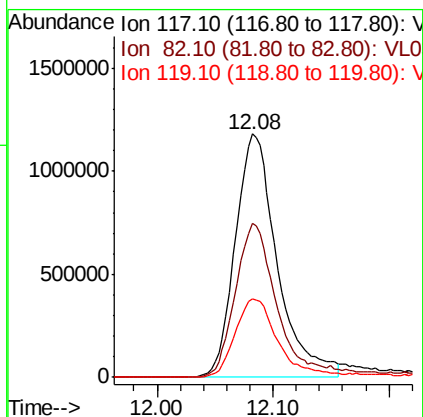
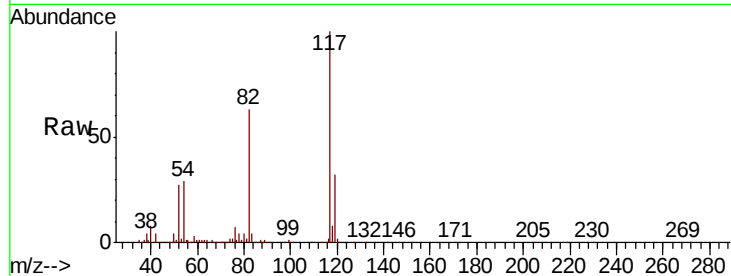




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.08 min Scan# 2891  
Delta R.T. -0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

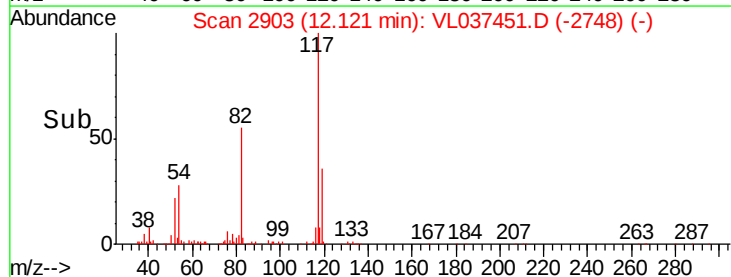
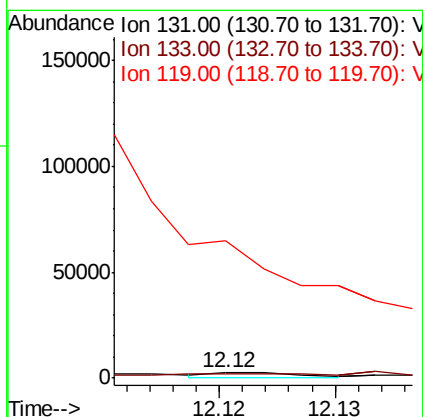
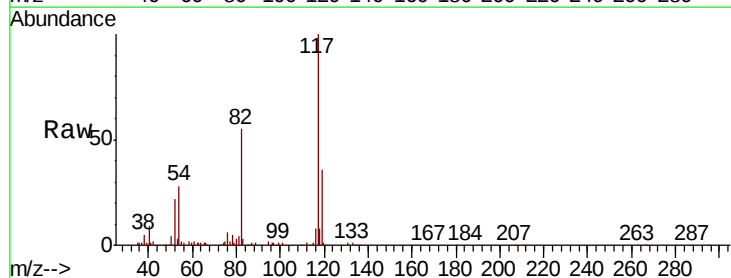
Instrument :  
MSVOA\_L  
ClientSampleId :

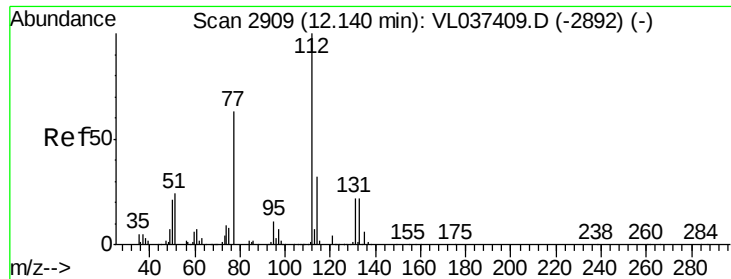
Tot Ion:117 Resp: 2960239  
Ion Ratio Lower Upper  
117 100  
82 67.5 53.1 79.7  
119 35.4 28.0 42.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.012 ppbv  
RT: 12.12 min Scan# 2903  
Delta R.T. -0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion:131 Resp: 1376  
Ion Ratio Lower Upper  
131 100  
133 0.0 77.1 115.7#  
119 0.0 59.7 89.5#

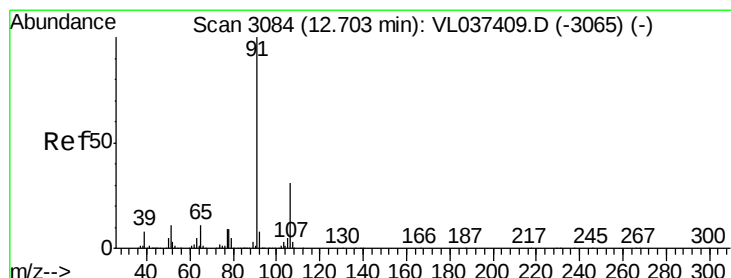
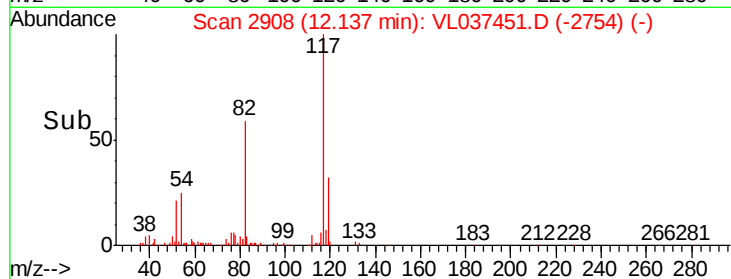
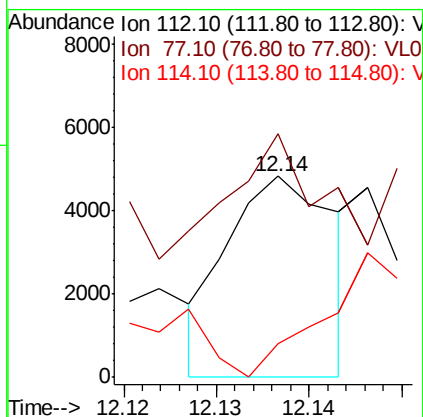
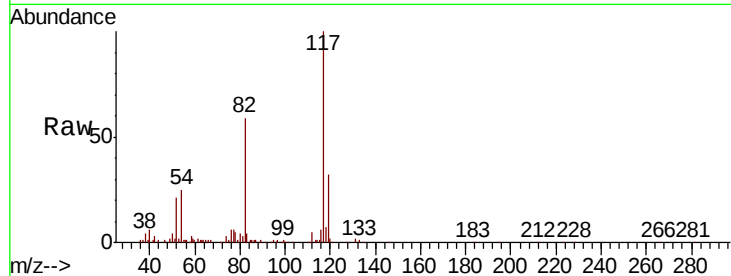




#57  
Chlorobenzene  
Concen: 0.016 ppbv  
RT: 12.14 min Scan# 2908  
Delta R.T. -0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

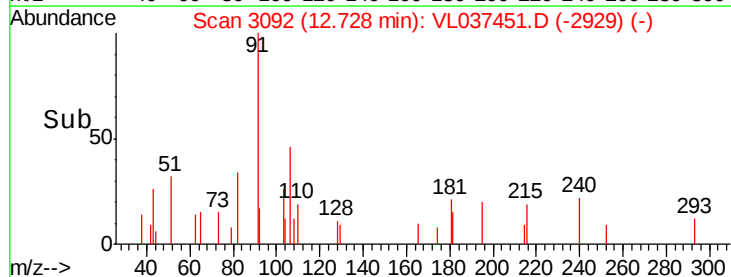
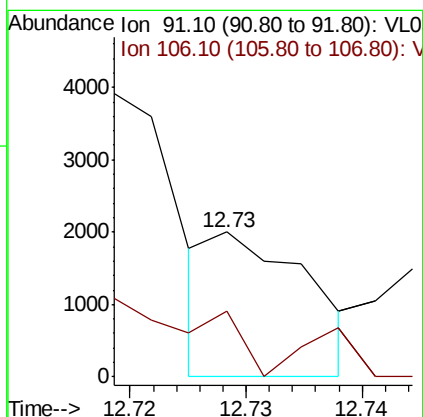
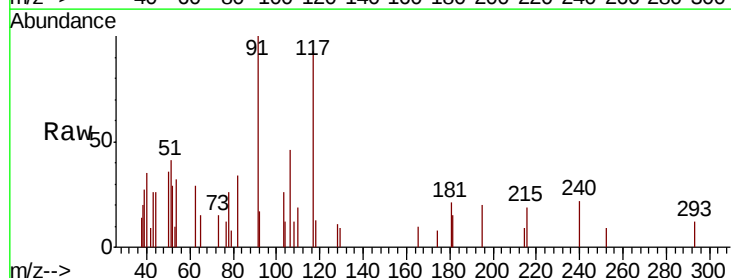
Instrument :  
MSVOA\_L  
ClientSampleId :

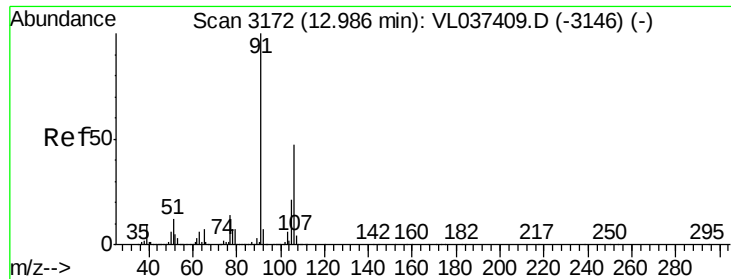
Tot Ion:112 Resp: 3860  
Ion Ratio Lower Upper  
112 100  
77 76.1 50.0 75.0#  
114 0.0 28.5 34.9#



#58  
Ethyl Benzene  
Concen: 0.003 ppbv  
RT: 12.73 min Scan# 3092  
Delta R.T. 0.03 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 91 Resp: 1169  
Ion Ratio Lower Upper  
91 100  
106 27.1 24.7 37.1

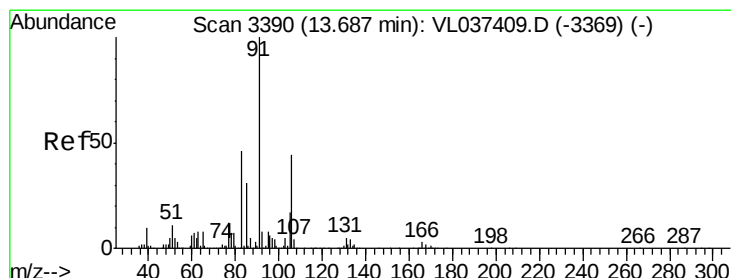
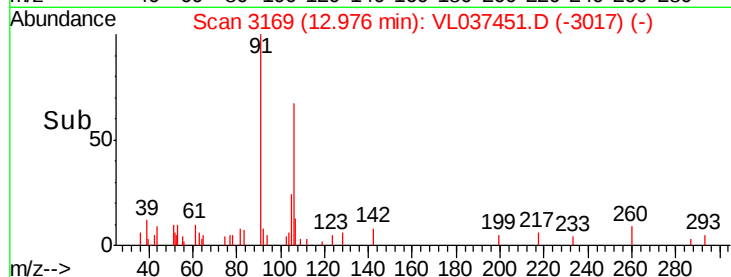
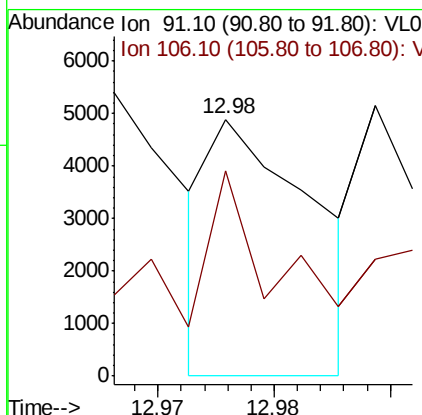
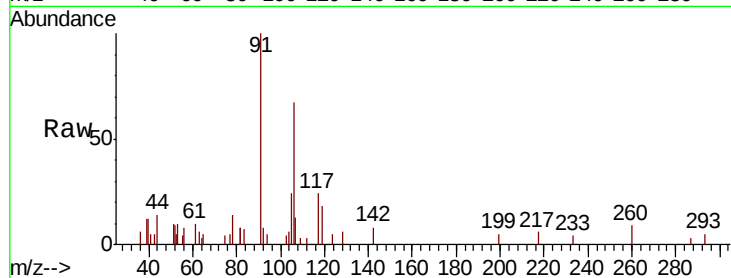




#59  
m/p-Xylene  
Concen: 0.008 ppbv  
RT: 12.98 min Scan# 3169  
Delta R.T. -0.01 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

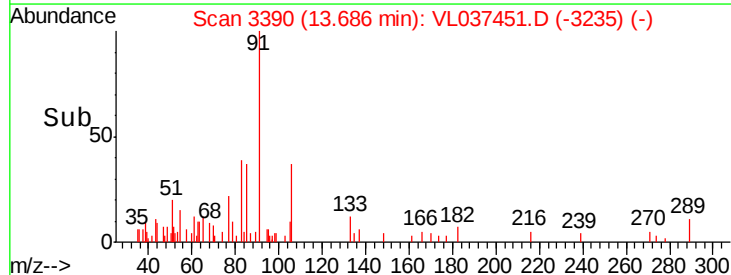
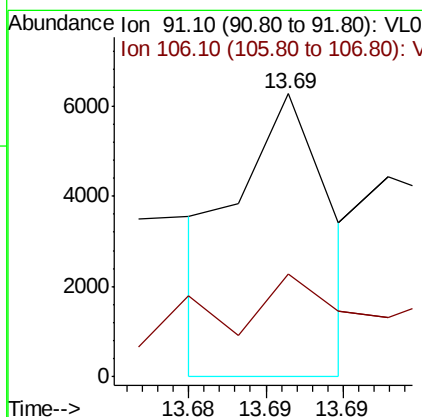
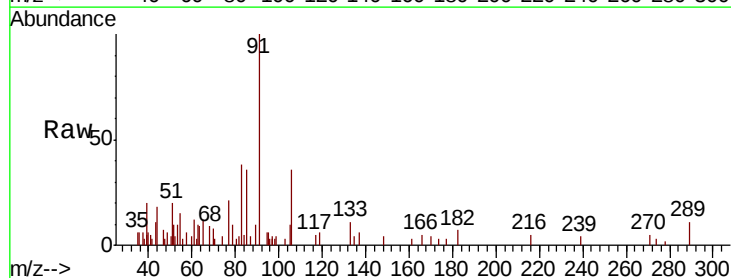
Instrument :  
MSVOA\_L  
ClientSampled :

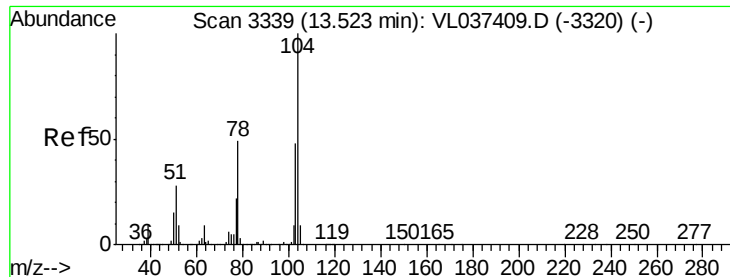
Tot Ion: 91 Resp: 2976  
Ion Ratio Lower Upper  
91 100  
106 209.5 36.6 54.8#



#60  
o-Xylene  
Concen: 0.008 ppbv  
RT: 13.69 min Scan# 3390  
Delta R.T. -0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 91 Resp: 2605  
Ion Ratio Lower Upper  
91 100  
106 191.0 24.1 72.2#





#61

Stvrene

Concen: 0.001 ppbv

RT: 13.65 min Scan# 3378

Delta R.T. 0.13 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

ClientSampleId :

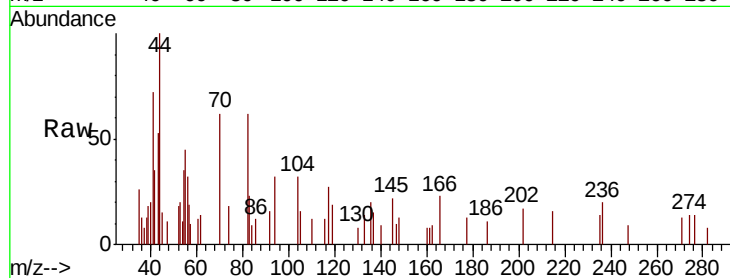
Tot Ion:104 Resp: 243

Ion Ratio Lower Upper

104 100

78 49.4 41.5 62.3

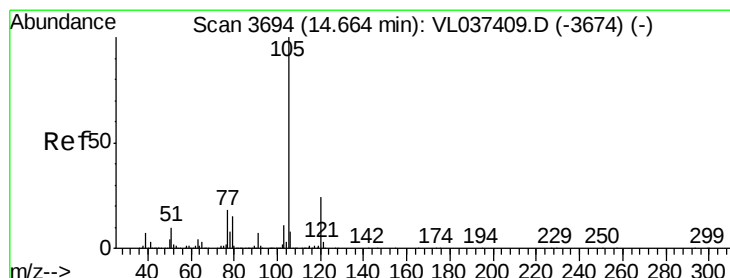
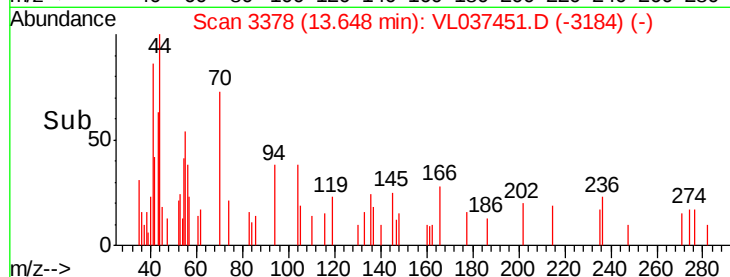
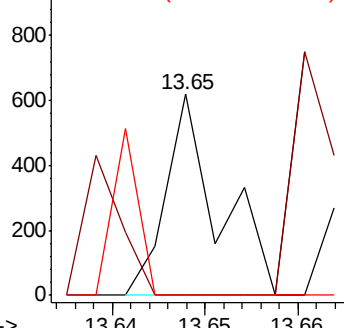
103 56.0 40.2 60.2



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: 0.012 ppbv

RT: 14.66 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VL037451.D

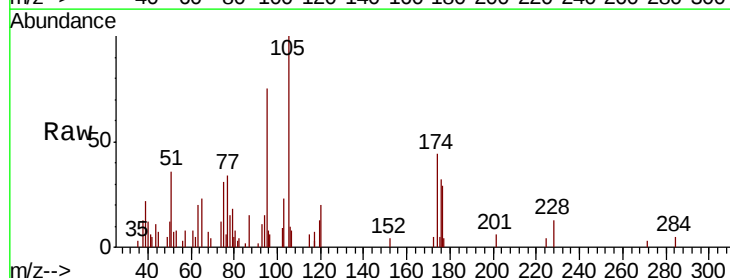
Acq: 13 Aug 2021 16:27

Tgt Ion:105 Resp: 5487

Ion Ratio Lower Upper

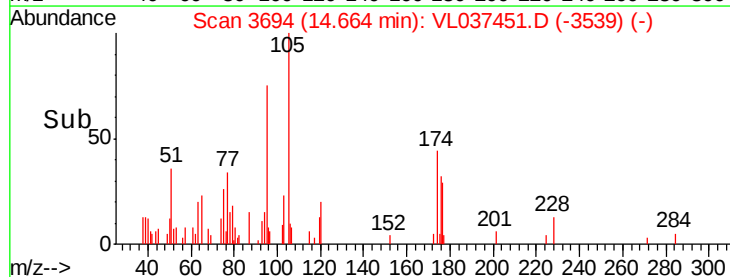
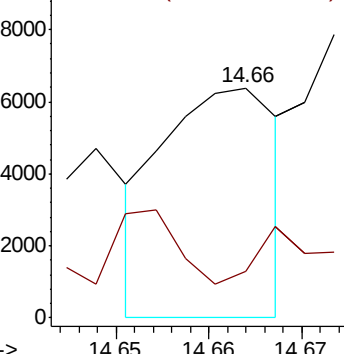
105 100

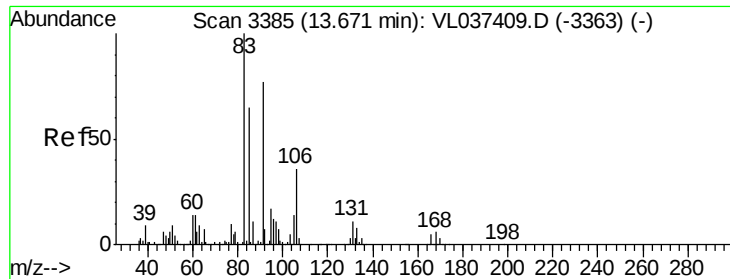
120 0.0 21.6 32.4#



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: 0.011 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

ClientSampleId :

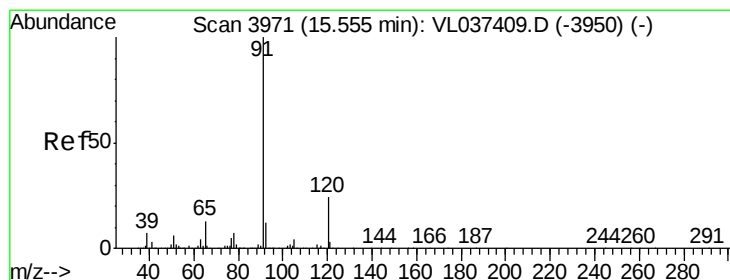
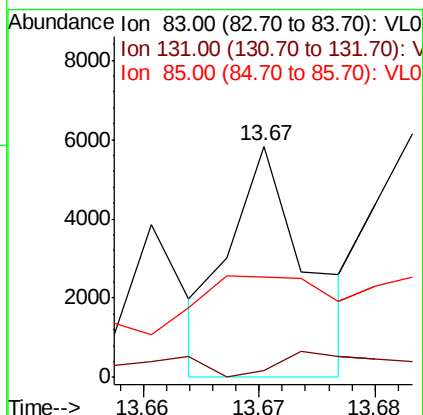
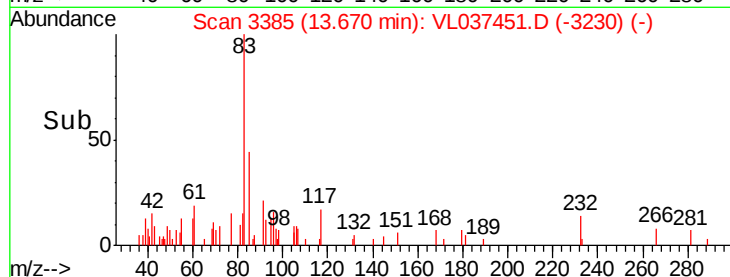
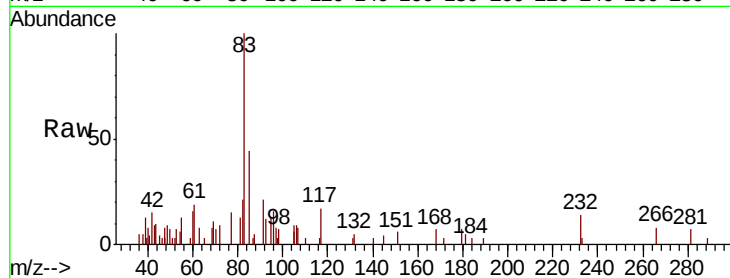
Tot Ion: 83 Resp: 2724

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

85 0.0 33.4 100.2#



#64

n-propylbenzene

Concen: 0.004 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. 0.30 min

Lab File: VL037451.D

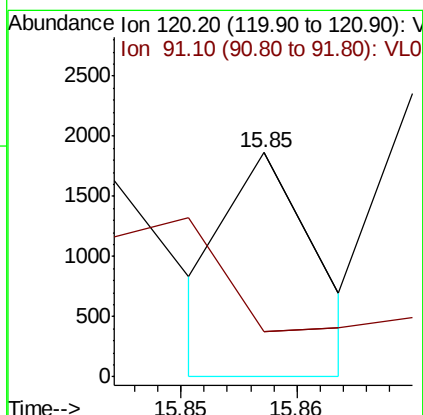
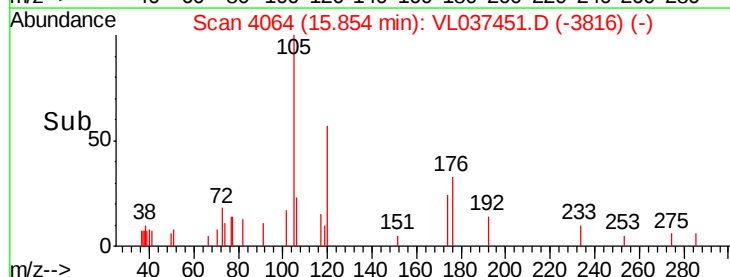
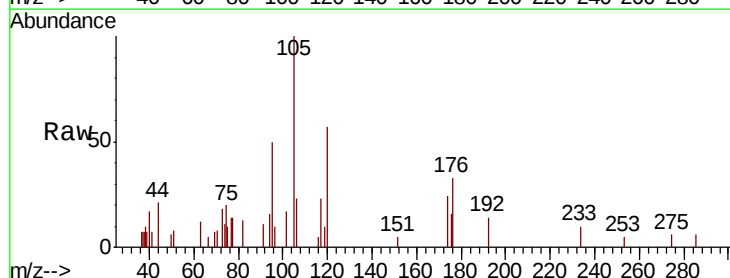
Acq: 13 Aug 2021 16:27

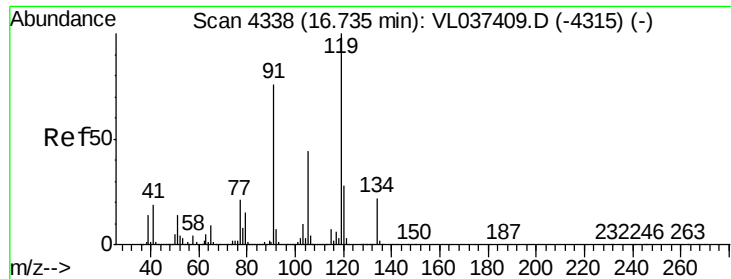
Tgt Ion: 120 Resp: 493

Ion Ratio Lower Upper

120 100

91 448.3 388.4 582.6

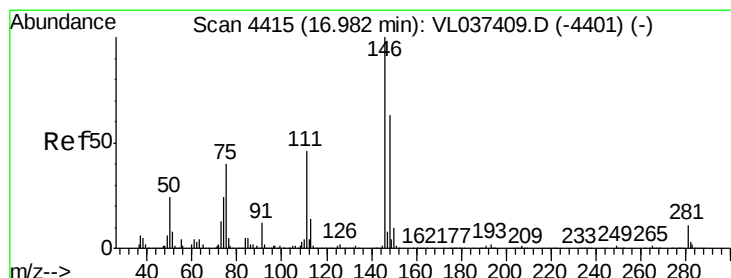
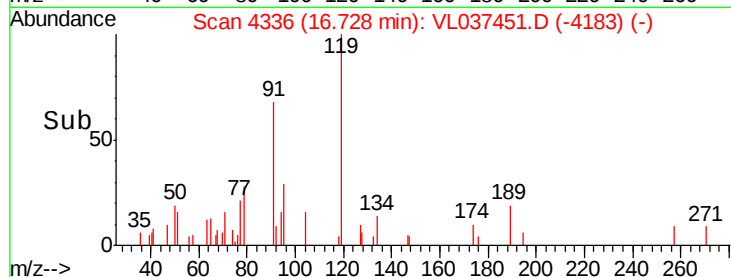
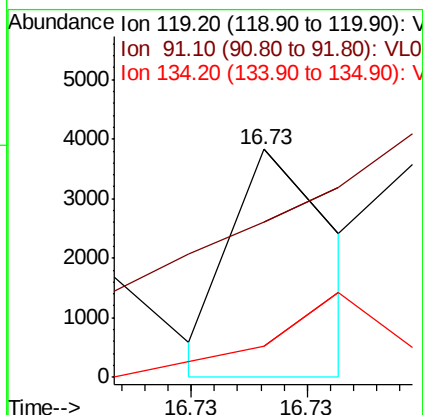
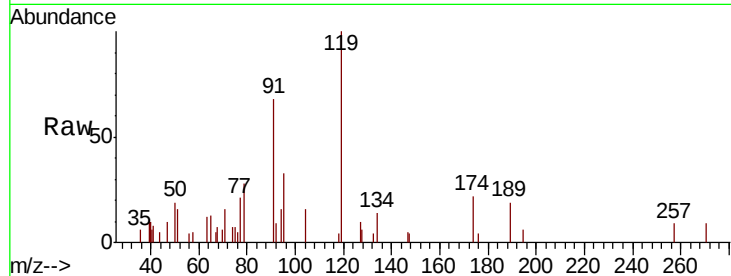




#65  
tert-Butylbenzene  
Concen: 0.003 ppbv  
RT: 16.73 min Scan# 4336  
Delta R.T. -0.01 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

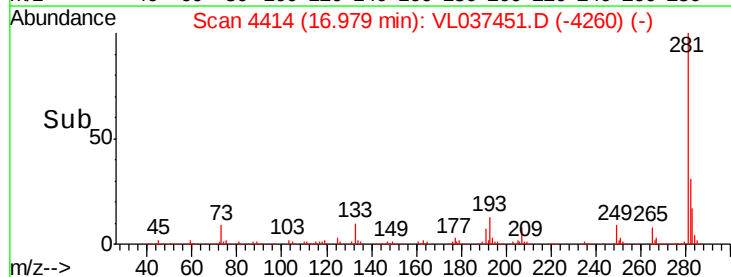
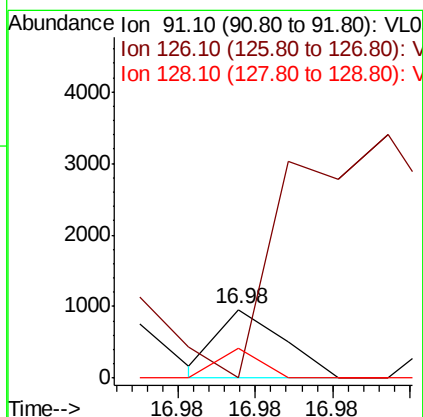
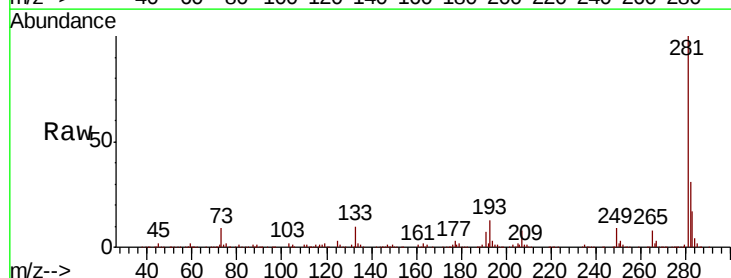
Instrument :  
MSVOA\_L  
ClientSampleID :

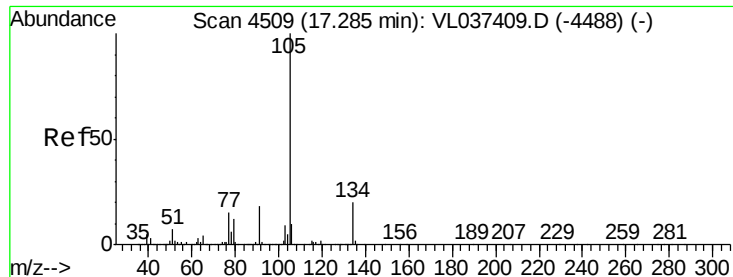
Tot Ion: 119 Resp: 1205  
Ion Ratio Lower Upper  
119 100  
91 0.0 62.2 93.4#  
134 0.0 16.1 24.1#



#66  
Benzyl Chloride  
Concen: 0.015 ppbv  
RT: 16.98 min Scan# 4414  
Delta R.T. -0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion: 91 Resp: 281  
Ion Ratio Lower Upper  
91 100  
126 2141.6 14.3 21.5#  
128 0.0 4.6 7.0#





#67

sec-Butylbenzene

Concen: 0.021 ppbv

RT: 17.29 min Scan# 4512

Delta R.T. 0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

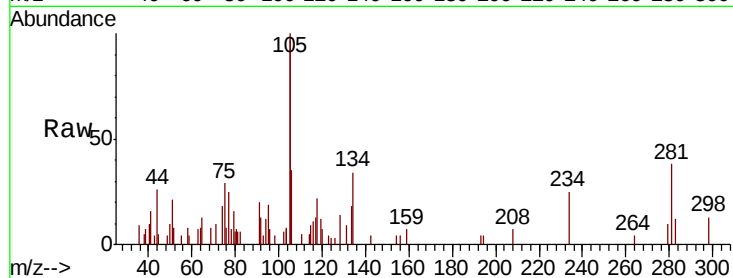
ClientSampled :

Tot Ion:105 Resp: 12071

Ion Ratio Lower Upper

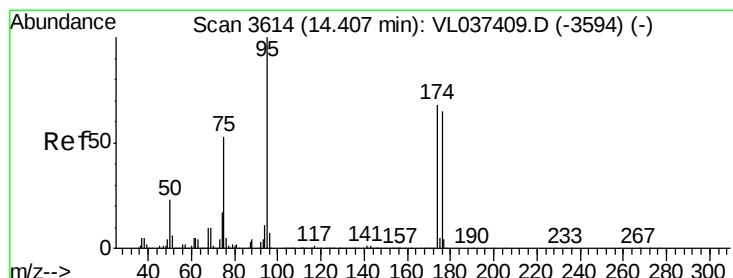
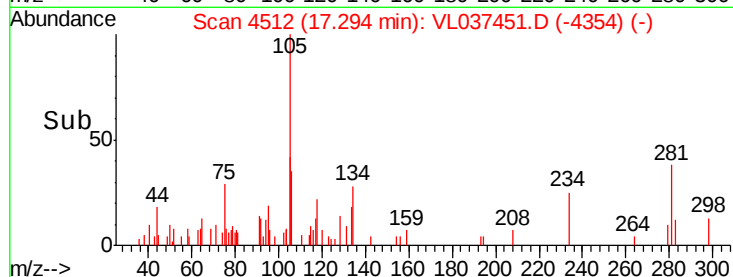
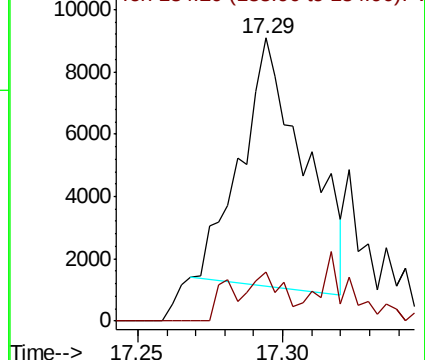
105 100

134 0.0 15.4 23.0#



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: 10.688 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

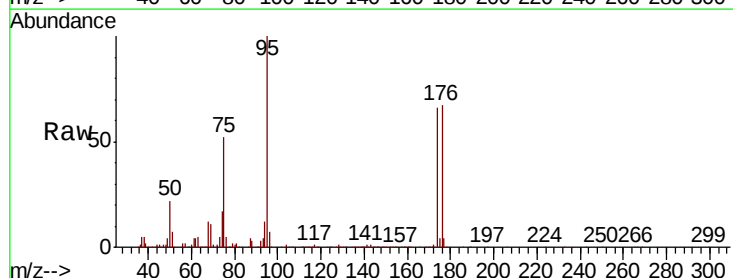
Tgt Ion: 95 Resp: 2269583

Ion Ratio Lower Upper

95 100

174 67.5 59.6 89.4

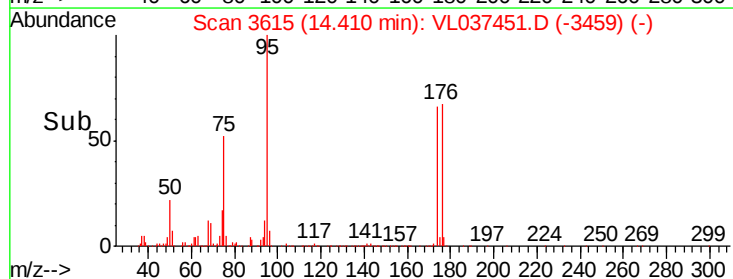
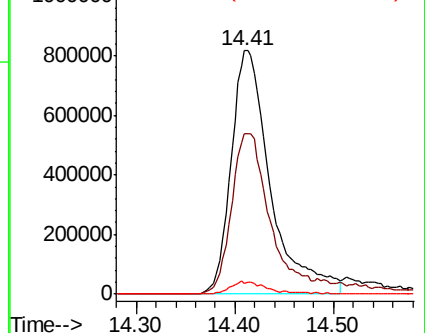
175 4.7 4.3 6.5

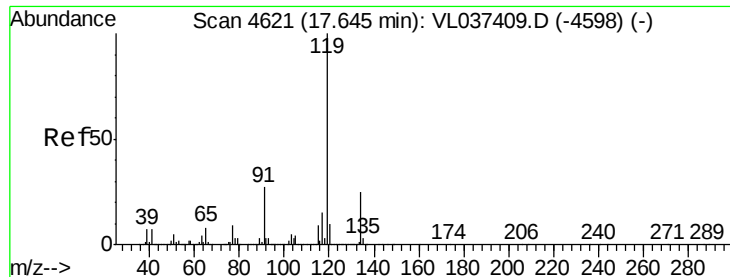


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.003 ppbv

RT: 17.64 min Scan# 4620

Delta R.T. -0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

ClientSampleId :

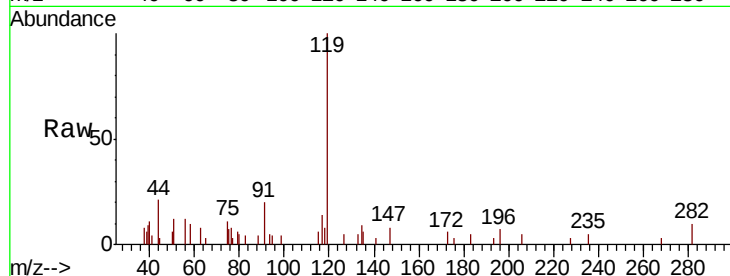
Tot Ion: 119 Resp: 1586

Ion Ratio Lower Upper

119 100

134 0.0 20.6 31.0#

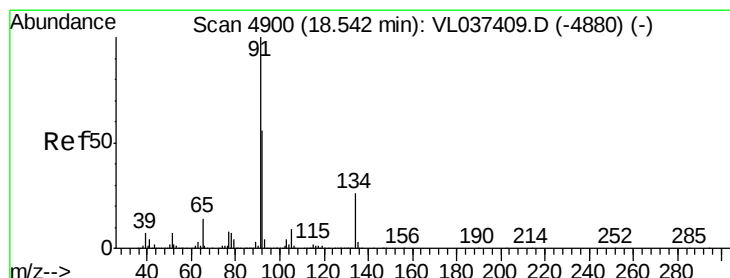
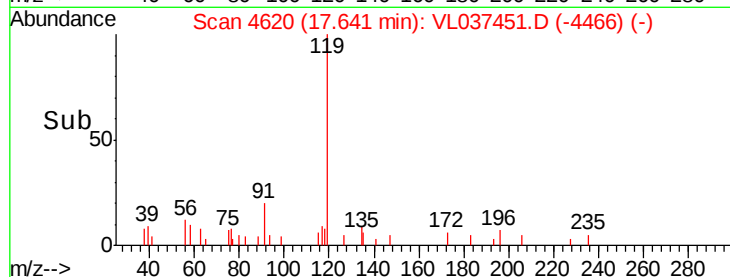
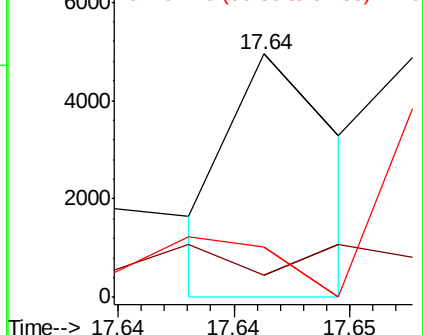
91 0.0 22.4 33.6#



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.010 ppbv

RT: 18.54 min Scan# 4901

Delta R.T. 0.00 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

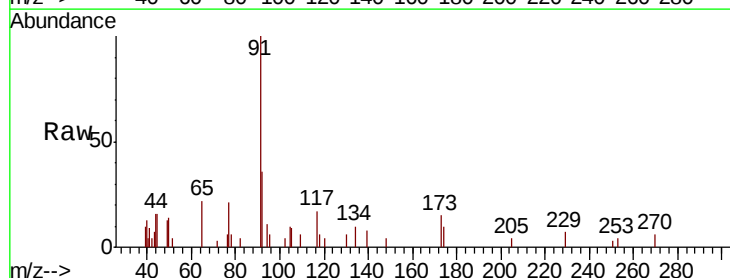
Tgt Ion: 91 Resp: 4457

Ion Ratio Lower Upper

91 100

92 0.0 44.2 66.2#

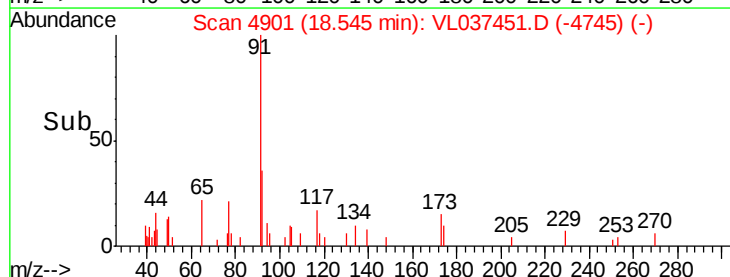
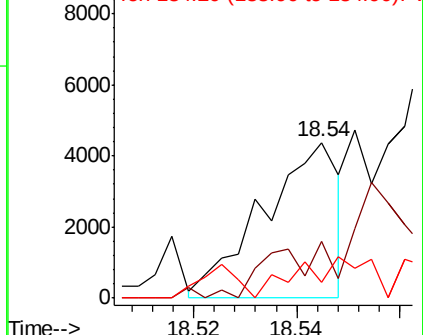
134 0.0 19.5 29.3#

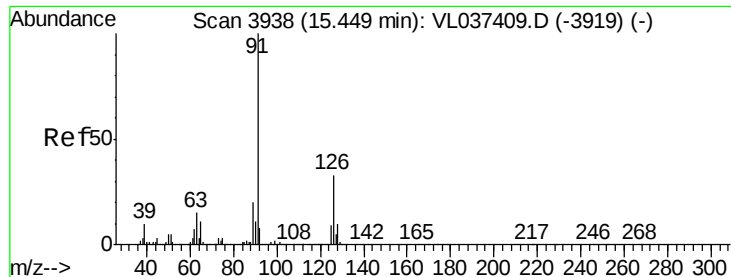


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V

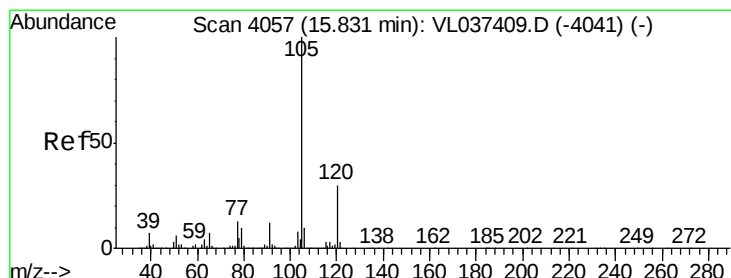
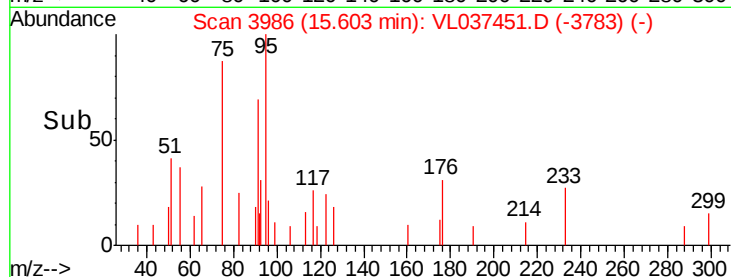
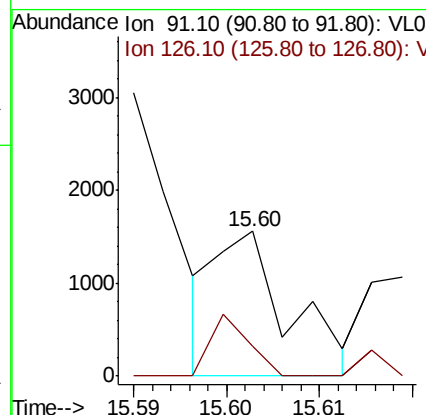
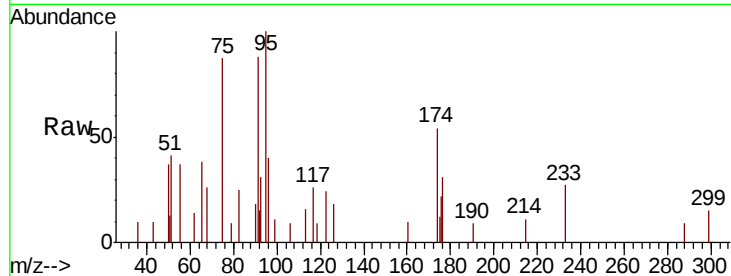




#71  
 2-Chlorotoluene  
 Concen: 0.003 ppbv  
 RT: 15.60 min Scan# 3986  
 Delta R.T. 0.15 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

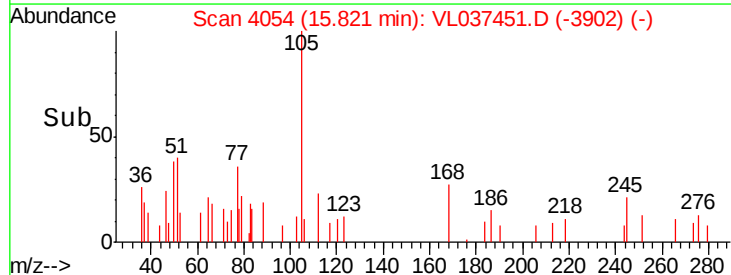
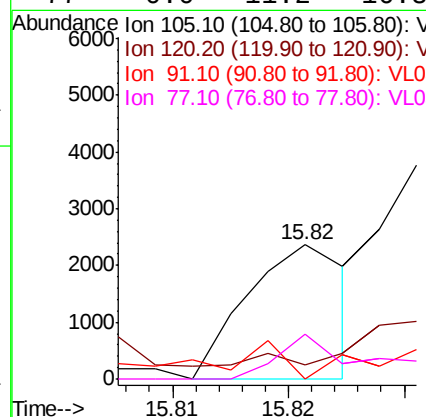
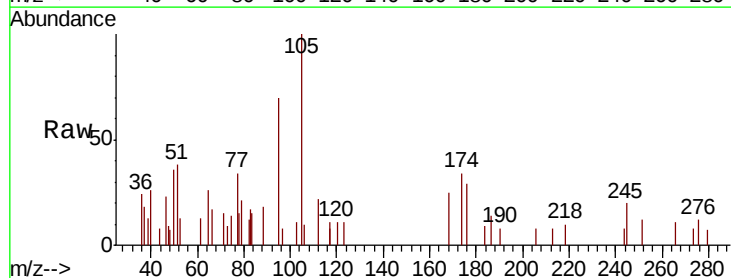
Instrument :  
 MSVOA\_L  
 ClientSampleId :

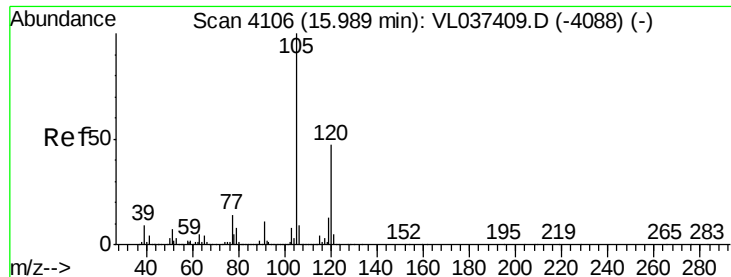
Tot Ion: 91 Resp: 851  
 Ion Ratio Lower Upper  
 91 100  
 126 35.1 13.5 53.9



#72  
 4-Ethyltoluene  
 Concen: 0.004 ppbv  
 RT: 15.82 min Scan# 4054  
 Delta R.T. -0.01 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

Tgt Ion: 105 Resp: 1430  
 Ion Ratio Lower Upper  
 105 100  
 120 0.0 25.0 37.4#  
 91 0.0 11.2 16.8#  
 77 0.0 11.2 16.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.018 ppbv

RT: 16.00 min Scan# 4108

Delta R.T. 0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

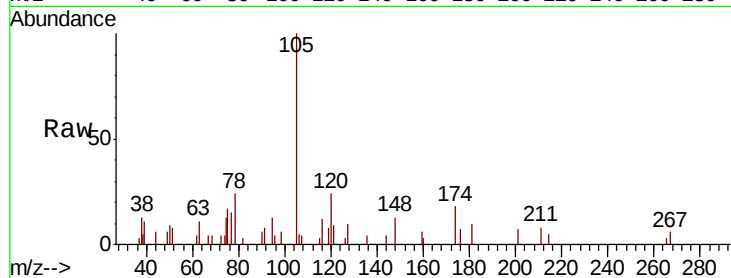
ClientSampled :

Tot Ion:105 Resp: 6504

Ion Ratio Lower Upper

105 100

120 19.3 37.4 56.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.00

6000

5000

4000

3000

2000

1000

0

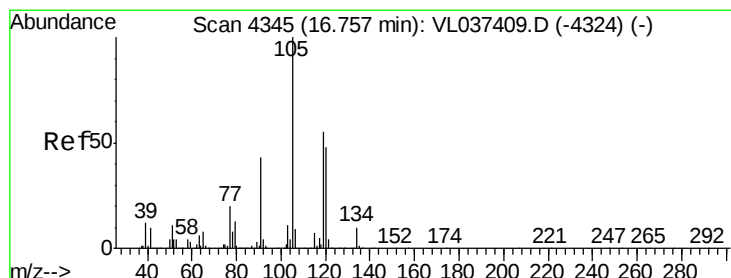
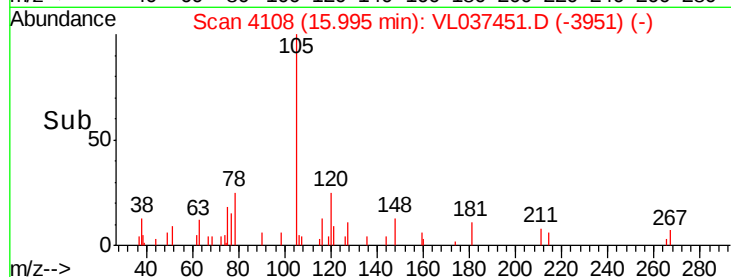
15.96

15.98

16.00

16.02

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.003 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

Tgt Ion:105 Resp: 1034

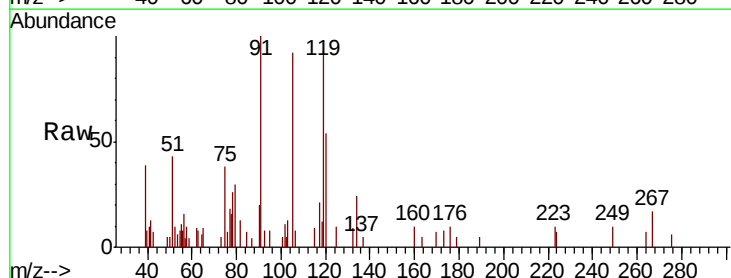
Ion Ratio Lower Upper

105 100

120 77.1 38.2 57.2#

91 49.0 35.4 53.2

77 6.5 16.2 24.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

Ion 77.10 (76.80 to 77.80): VLO

5000

4000

3000

2000

1000

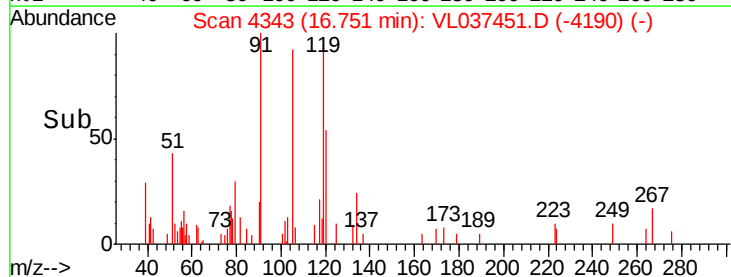
0

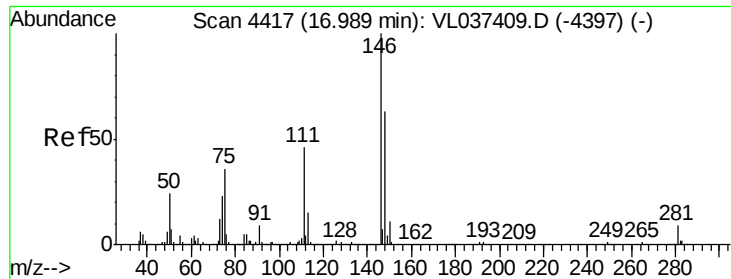
16.75

16.75

16.75

Time-->

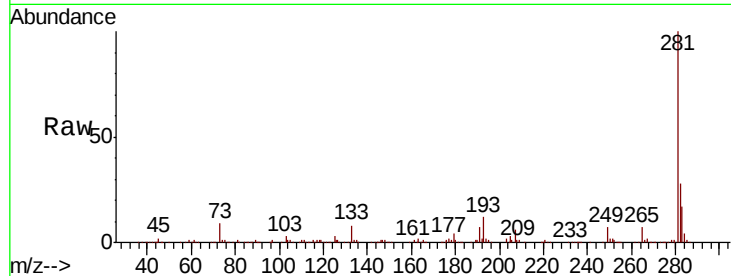




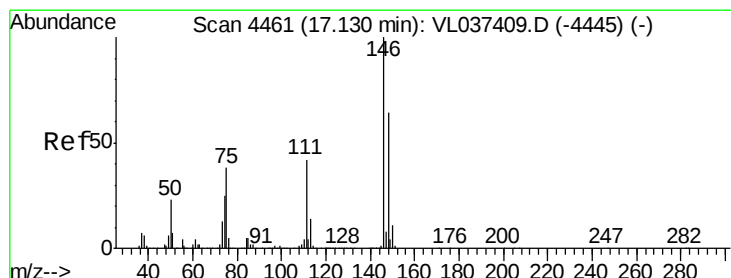
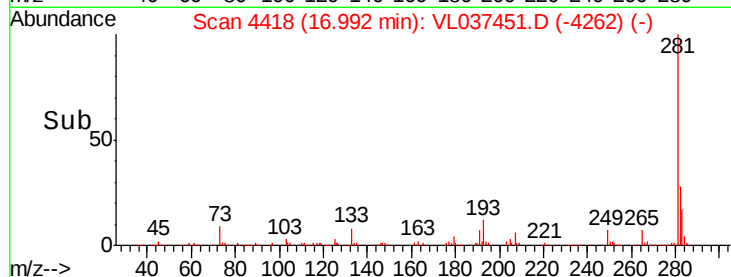
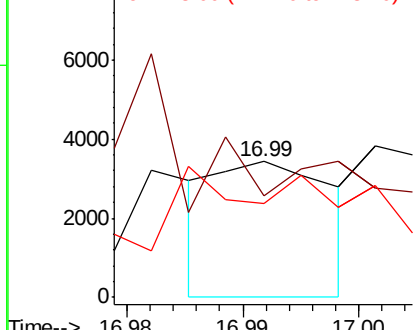
#75  
 1,3-Dichlorobenzene  
 Concen: 0.011 ppbv  
 RT: 16.99 min Scan# 4418  
 Delta R.T. 0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

Instrument :  
 MSVOA\_L  
 ClientSampled :

Tot Ion:146 Resp: 2414  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 22.9 68.7#  
 148 0.0 32.0 96.2#

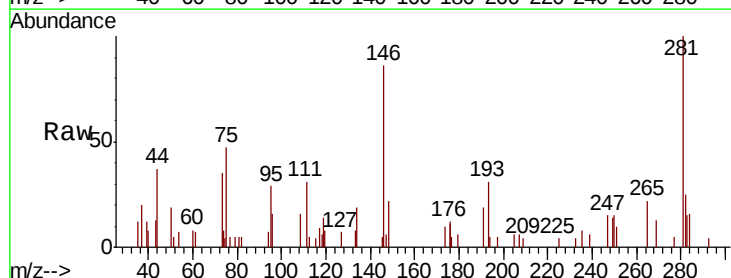


Abundance Ion 146.00 (145.70 to 146.70): V  
 Ion 111.10 (110.80 to 111.80): V  
 Ion 148.00 (147.70 to 148.70): V

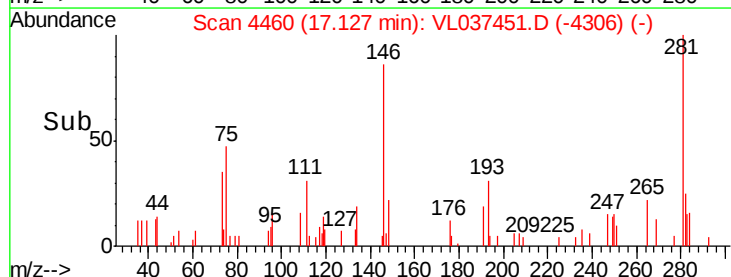
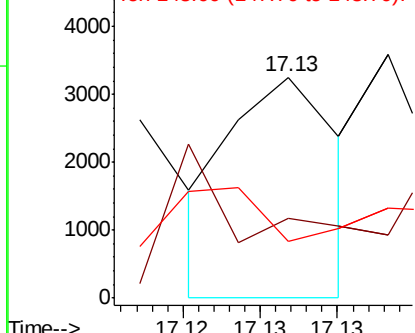


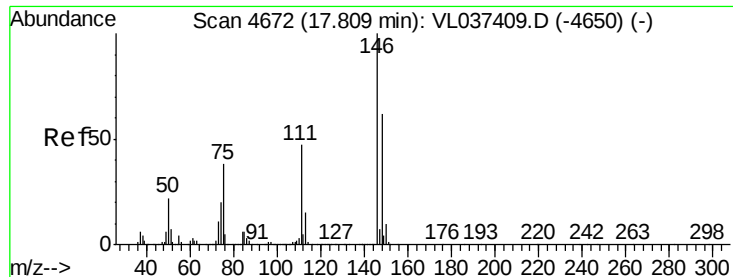
#76  
 1,4-Dichlorobenzene  
 Concen: 0.007 ppbv  
 RT: 17.13 min Scan# 4460  
 Delta R.T. -0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

Tgt Ion:146 Resp: 1594  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 22.8 68.4#  
 148 0.0 34.0 102.0#



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





#77

1,2-Dichlorobenzene

Concen: 0.007 ppbv

RT: 17.81 min Scan# 4671

Delta R.T. -0.00 min

Lab File: VL037451.D

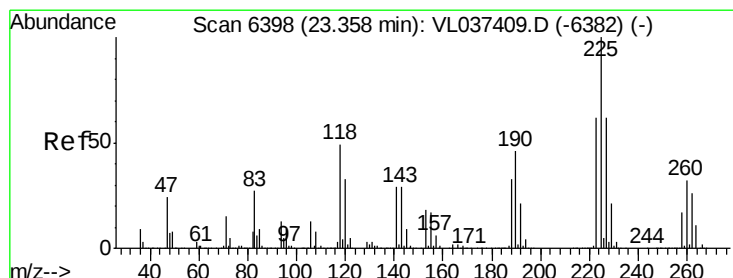
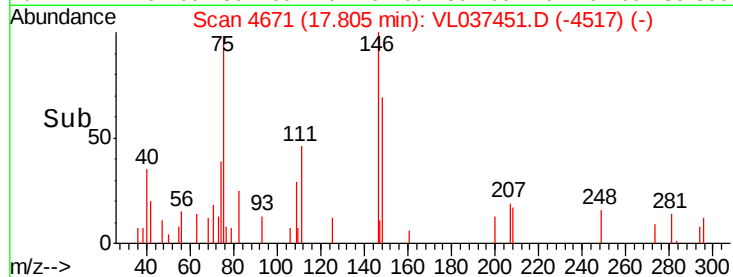
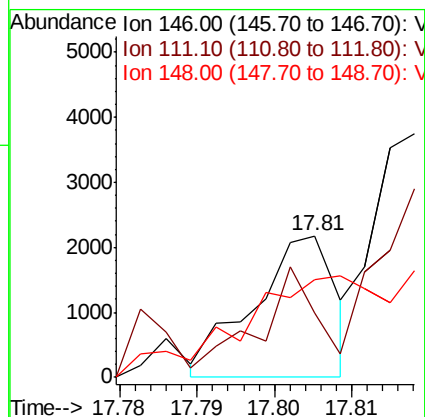
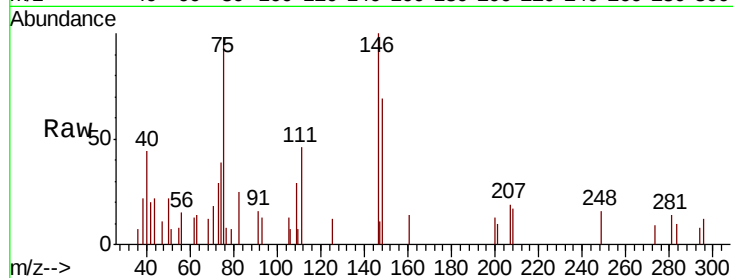
Acq: 13 Aug 2021 16:27

Instrument :

MSVOA\_L

ClientSampled :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:146 | Resp: | 1610       |
| Ion Ratio   | Lower | Upper      |
| 146         | 100   |            |
| 111         | 0.0   | 23.8 71.5# |
| 148         | 0.0   | 32.5 97.4# |



#78

Hexachloro-1,3-Butadiene

Concen: 0.022 ppbv

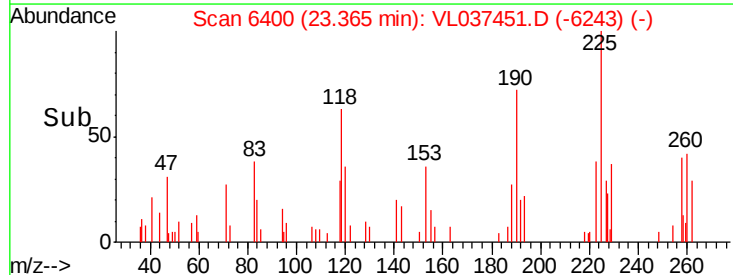
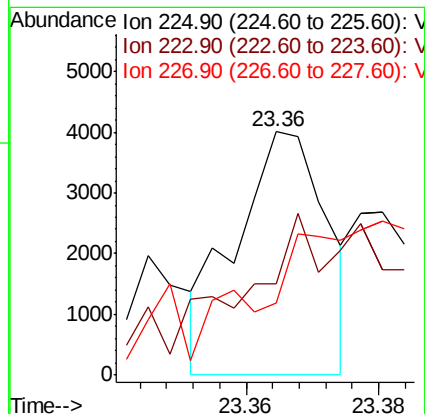
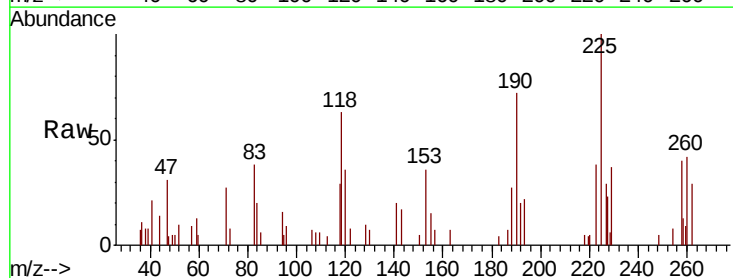
RT: 23.36 min Scan# 6400

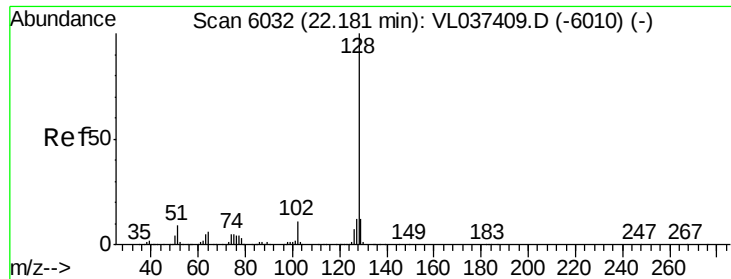
Delta R.T. 0.01 min

Lab File: VL037451.D

Acq: 13 Aug 2021 16:27

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:225 | Resp: | 3816       |
| Ion Ratio   | Lower | Upper      |
| 225         | 100   |            |
| 223         | 155.9 | 51.2 76.8# |
| 227         | 0.0   | 52.2 78.4# |

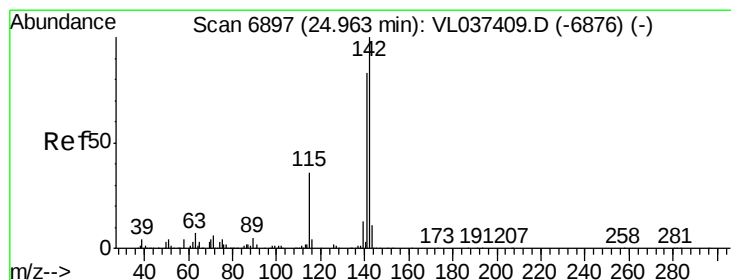
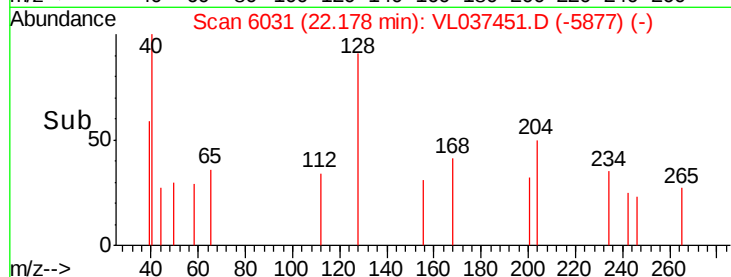
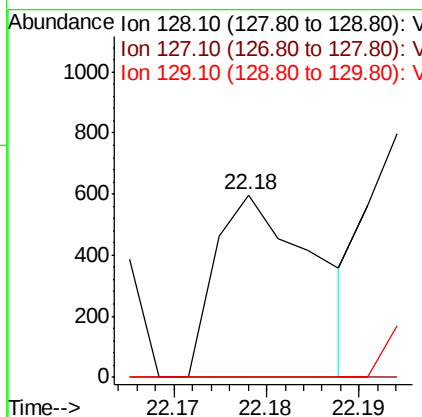
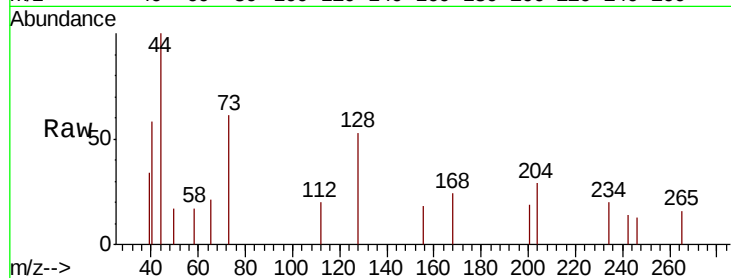




#79  
Naphthalene  
Concen: 0.002 ppbv  
RT: 22.18 min Scan# 6031  
Delta R.T. -0.00 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

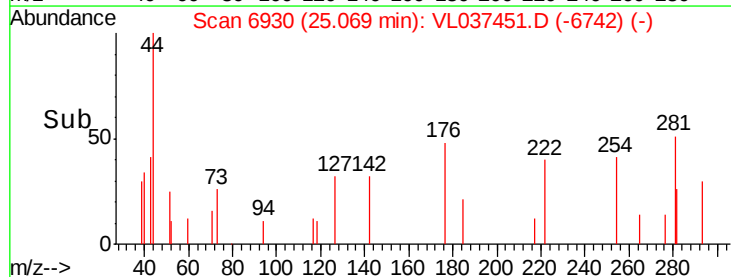
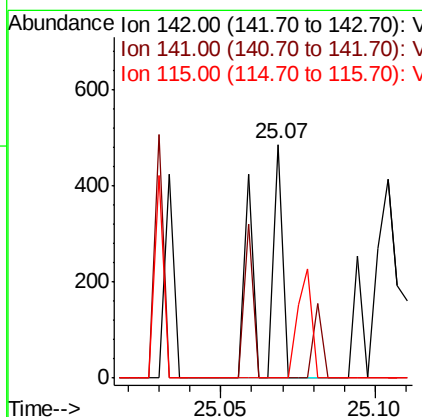
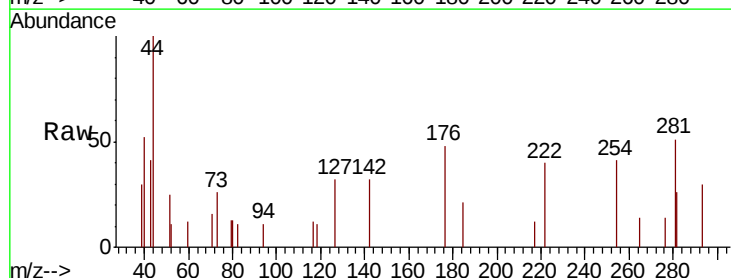
Instrument :  
MSVOA\_L  
ClientSampled :

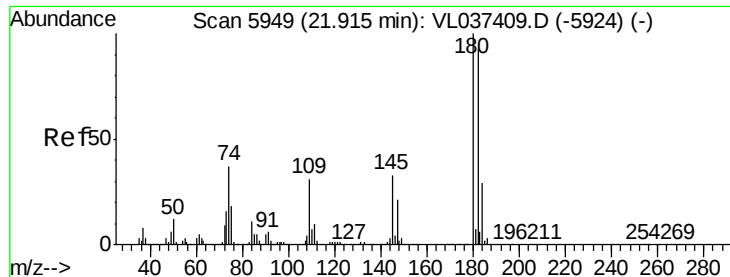
Tot Ion:128 Resp: 441  
Ion Ratio Lower Upper  
128 100  
127 0.0 9.9 14.9#  
129 0.0 9.4 14.0#



#80  
Naphthalene, 2-methyl-  
Concen: 0.004 ppbv  
RT: 25.07 min Scan# 6930  
Delta R.T. 0.11 min  
Lab File: VL037451.D  
Acq: 13 Aug 2021 16:27

Tgt Ion:142 Resp: 176  
Ion Ratio Lower Upper  
142 100  
141 35.2 68.7 103.1#  
115 42.0 32.7 49.1

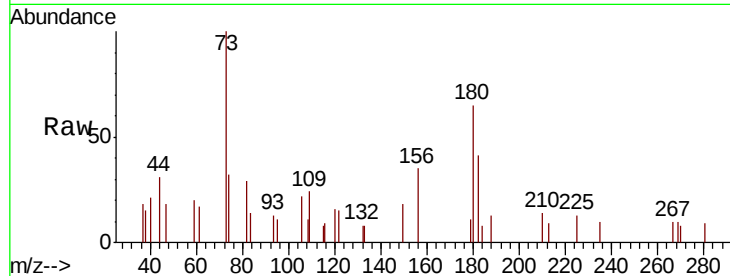




#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.002 ppbv  
 RT: 21.91 min Scan# 5949  
 Delta R.T. -0.00 min  
 Lab File: VL037451.D  
 Acq: 13 Aug 2021 16:27

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion:180 Resp: 326  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 78.6 118.0#  
 184 0.0 24.6 36.8#



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

