

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\  
 Data File : VL037211.D  
 Acq On : 17 Jun 2021 21:20  
 Operator : SY/AP  
 Sample : M2742-04  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2

Quant Time: Jun 18 01:24:31 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 16 14:06:32 2021  
 QLast Update : Wed Jun 16 14:06:32 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1457841  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 4352066  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.08 | 117  | 3854539  | 10.00 | ppbv  | -0.01    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 3123451  | 10.69    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.90% |

| Target Compounds               |       |     |         |        | Ovalue    |
|--------------------------------|-------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.04  | 85  | 58814   | 0.232  | ppbv 94   |
| 3) Chlorodifluoromethane       | 2.96  | 51  | 495627  | 1.748  | ppbv # 67 |
| 4) Chloromethane               | 3.14  | 50  | 7358    | 0.078  | ppbv 92   |
| 7) Chloroethane                | 3.56  | 64  | 6668    | 0.180  | ppbv # 72 |
| 9) Propene                     | 3.01  | 41  | 168220  | 1.856  | ppbv 90   |
| 10) Heptane                    | 8.12  | 43  | 236851  | 1.079  | ppbv 98   |
| 11) Trichlorofluoromethane     | 3.95  | 101 | 61528   | 0.227  | ppbv 89   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48  | 101 | 6426    | 0.034  | ppbv # 20 |
| 13) Ethanol                    | 3.61  | 45  | 144023  | 10.272 | ppbv 96   |
| 15) Acetone                    | 3.84  | 43  | 4756556 | 28.933 | ppbv 99   |
| 16) 1,3-Butadiene              | 3.30  | 39  | 155912  | 1.604  | ppbv # 22 |
| 17) tert-Butyl alcohol         | 4.30  | 59  | 114441  | 0.753  | ppbv # 85 |
| 19) Isopropyl Alcohol          | 3.97  | 45  | 27922   | 0.280  | ppbv # 91 |
| 20) Methylene Chloride         | 4.34  | 84  | 909222  | 9.238  | ppbv 99   |
| 21) Allyl Chloride             | 4.35  | 41  | 7105    | 0.057  | ppbv # 18 |
| 23) Vinyl Acetate              | 5.06  | 43  | 32749   | 0.139  | ppbv # 35 |
| 25) Ethyl Acetate              | 5.68  | 43  | 2017996 | 5.670  | ppbv # 76 |
| 26) Hexane                     | 5.68  | 57  | 2905796 | 16.154 | ppbv # 46 |
| 27) Carbon Disulfide           | 4.55  | 76  | 1105051 | 6.270  | ppbv 99   |
| 29) Chloroform                 | 5.75  | 83  | 266378  | 0.959  | ppbv 99   |
| 30) Cyclohexane                | 7.13  | 84  | 34929   | 0.233  | ppbv # 1  |
| 34) 2-Butanone                 | 5.24  | 43  | 315469  | 1.864  | ppbv 95   |
| 35) Carbon Tetrachloride       | 7.01  | 117 | 6416    | 0.022  | ppbv 91   |
| 36) Benzene                    | 6.89  | 78  | 106534  | 0.303  | ppbv 97   |
| 38) Trichloroethene            | 7.83  | 130 | 21436   | 0.128  | ppbv 95   |
| 39) 1,2-Dichloropropane        | 7.17  | 63  | 1037876 | 7.937  | ppbv # 23 |
| 41) Tetrahydrofuran            | 5.68  | 42  | 1047812 | 13.328 | ppbv # 49 |
| 44) 2,2,4-Trimethylpentane     | 7.87  | 57  | 35822   | 0.060  | ppbv # 1  |
| 47) 1,1,2-Trichloroethane      | 9.57  | 97  | 28608   | 0.192  | ppbv # 58 |
| 50) 4-Methyl-2-Pentanone       | 8.76  | 43  | 18128   | 0.078  | ppbv # 47 |
| 51) 2-Hexanone                 | 10.14 | 43  | 21664   | 0.192  | ppbv # 1  |
| 52) Tetrachloroethene          | 11.22 | 164 | 697786  | 4.267  | ppbv 98   |
| 53) Toluene                    | 9.80  | 91  | 460561  | 1.096  | ppbv 99   |
| 57) Chlorobenzene              | 12.15 | 112 | 162273  | 0.519  | ppbv # 25 |
| 58) Ethyl Benzene              | 12.71 | 91  | 205609  | 0.387  | ppbv # 85 |
| 59) m/p-Xylene                 | 12.97 | 91  | 665650  | 1.480  | ppbv 96   |
| 60) o-Xylene                   | 13.69 | 91  | 412839  | 0.964  | ppbv 93   |
| 61) Styrene                    | 13.53 | 104 | 13677   | 0.062  | ppbv # 1  |
| 62) Isopropylbenzene           | 14.66 | 105 | 42820   | 0.070  | ppbv # 76 |
| 63) 1,1,2,2-Tetrachloroethane  | 13.66 | 83  | 241788  | 0.848  | ppbv # 52 |
| 64) n-propylbenzene            | 15.56 | 120 | 44170   | 0.290  | ppbv # 17 |

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

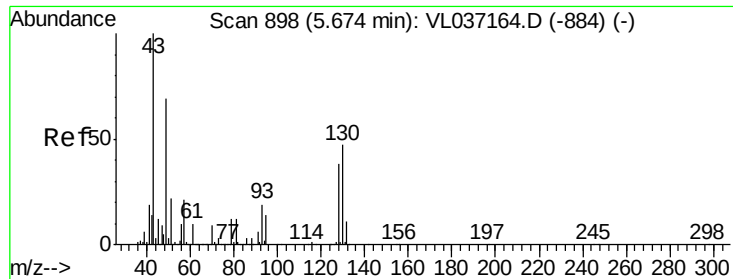
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

Quant Time: Jun 18 01:24:31 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jun 16 14:06:32 2021  
QLast Update : Wed Jun 16 14:06:32 2021  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 66) Benzyl Chloride        | 16.98 | 91   | 1094     | 0.048 | ppbv # | 1        |
| 67) sec-Butylbenzene       | 17.31 | 105  | 14844    | 0.021 | ppbv # | 2        |
| 69) p-Isopropyltoluene     | 17.66 | 119  | 38864    | 0.064 | ppbv # | 72       |
| 70) n-Butylbenzene         | 18.59 | 91   | 535408   | 0.951 | ppbv   | 95       |
| 71) 2-Chlorotoluene        | 15.57 | 91   | 235813   | 0.554 | ppbv   | 83       |
| 72) 4-Ethyltoluene         | 15.84 | 105  | 223644   | 0.460 | ppbv # | 91       |
| 73) 1,3,5-Trimethylbenzene | 16.00 | 105  | 222426   | 0.473 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene | 16.77 | 105  | 819266   | 1.691 | ppbv # | 73       |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

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ClientSampleId :

SV2

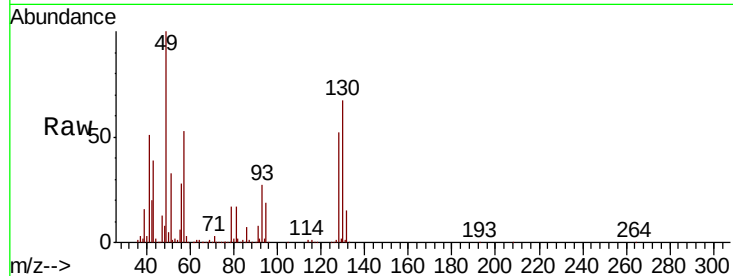
Tot Ion: 49 Resp: 1457841

Ion Ratio Lower Upper

49 100

128 55.0 29.3 88.0

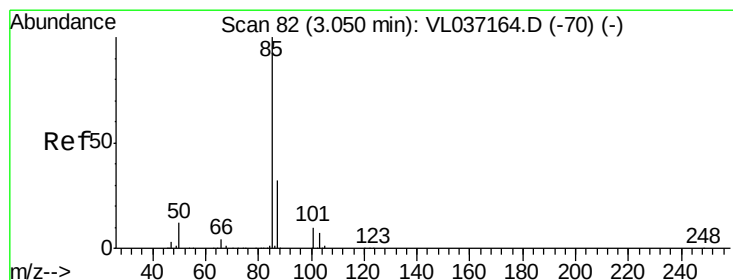
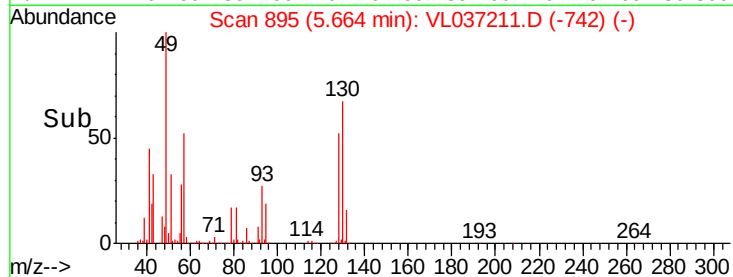
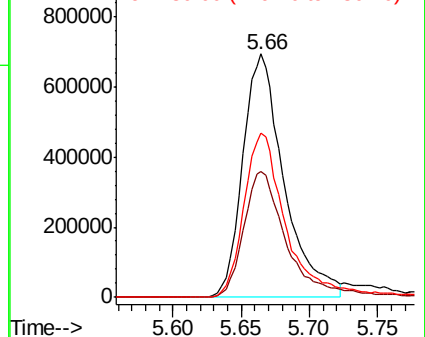
130 70.3 35.9 107.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.232 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037211.D

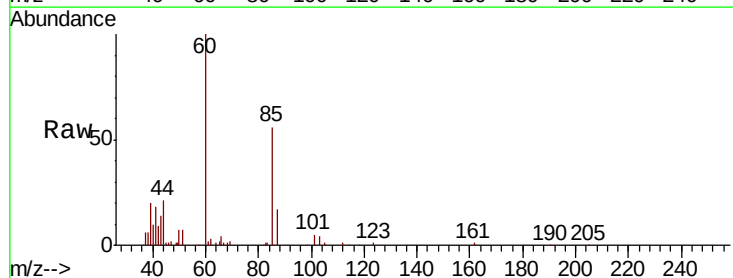
Acq: 17 Jun 2021 21:20

Tgt Ion: 85 Resp: 58814

Ion Ratio Lower Upper

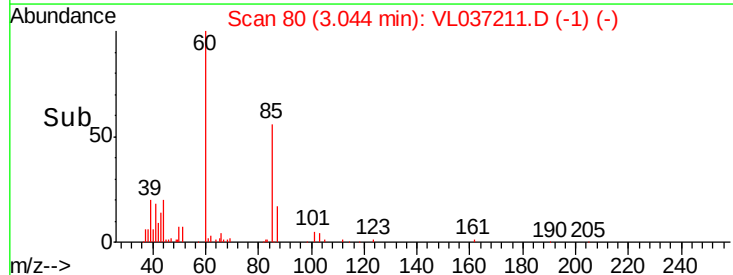
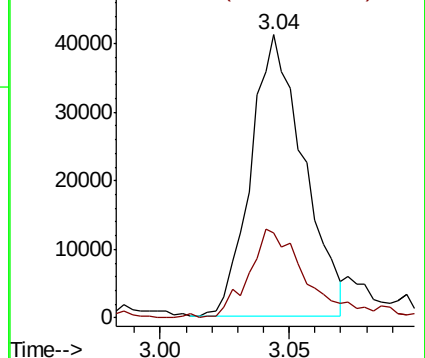
85 100

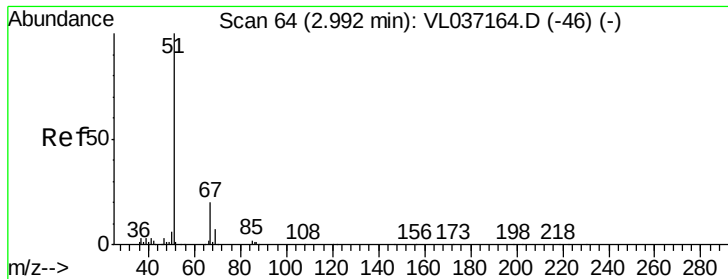
87 28.7 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

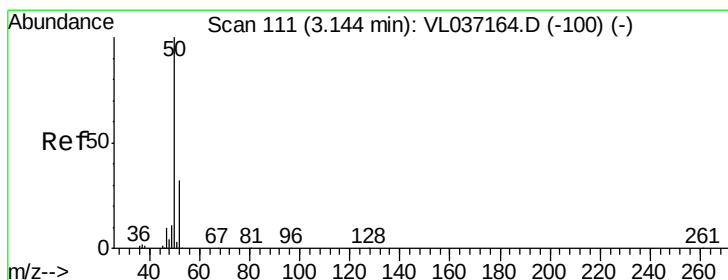
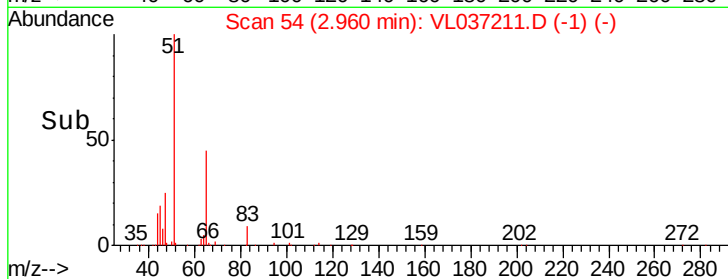
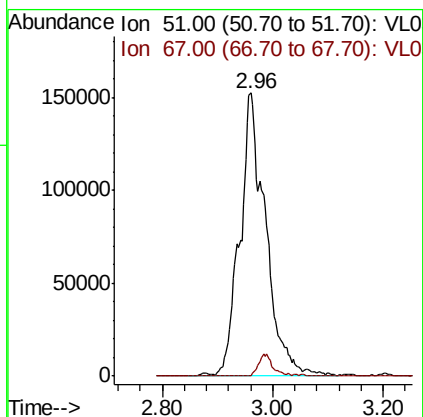
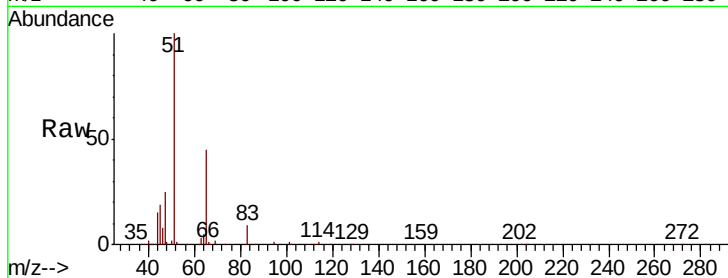




#3  
Chlorodifluoromethane  
Concen: 1.748 ppbv  
RT: 2.96 min Scan# 54  
Delta R.T. -0.03 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

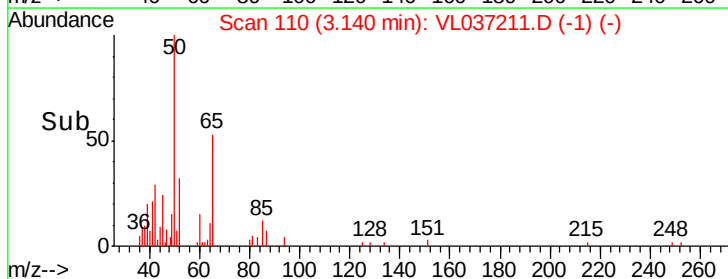
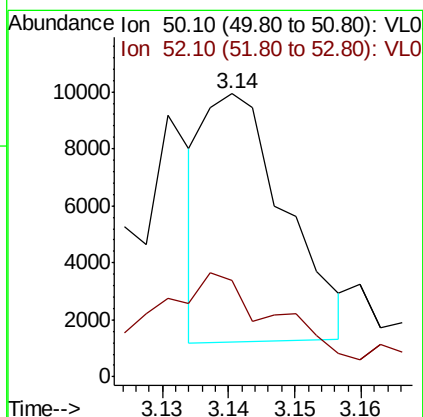
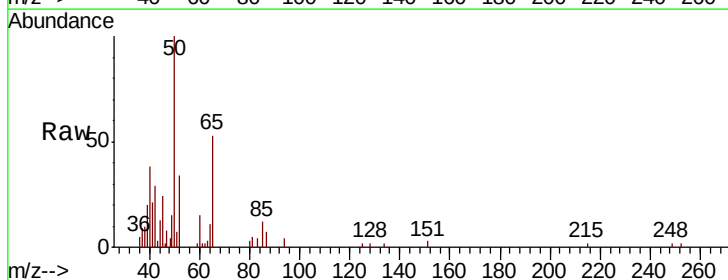
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

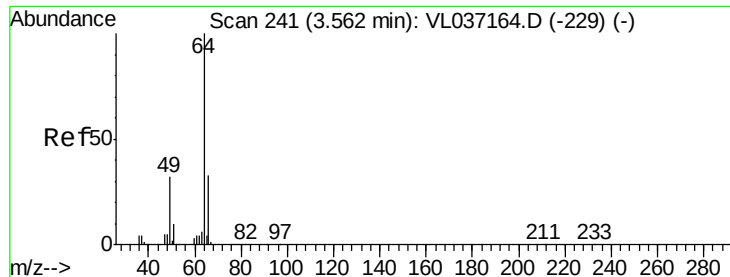
Tot Ion: 51 Resp: 495627  
Ion Ratio Lower Upper  
51 100  
67 4.6 15.8 23.6#



#4  
Chloromethane  
Concen: 0.078 ppbv  
RT: 3.14 min Scan# 110  
Delta R.T. -0.00 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Tgt Ion: 50 Resp: 7358  
Ion Ratio Lower Upper  
50 100  
52 36.7 25.8 38.8





#7

Chloroethane

Concen: 0.180 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

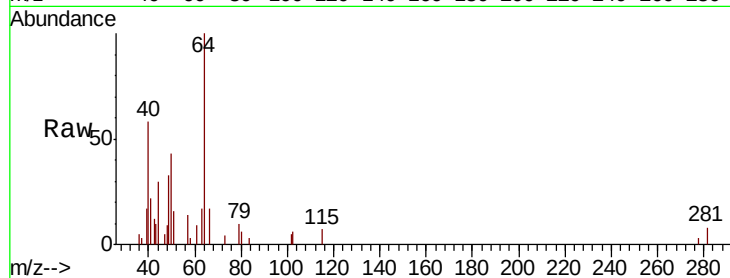
SV2

Tot Ion: 64 Resp: 6668

Ion Ratio Lower Upper

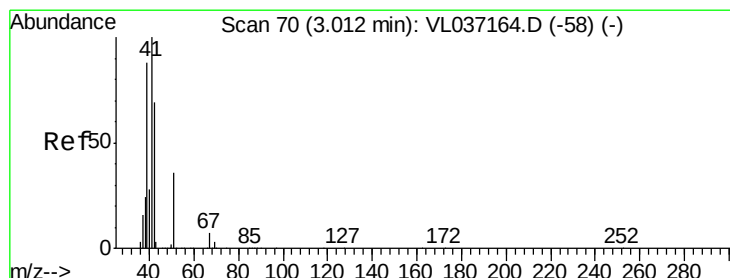
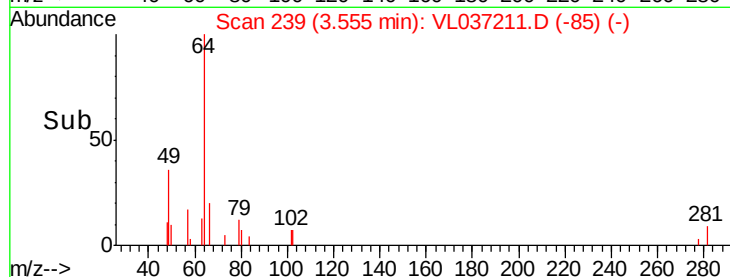
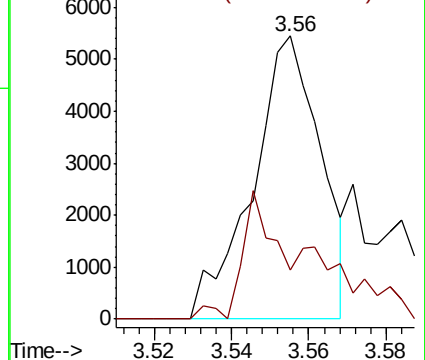
64 100

66 17.2 26.2 39.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 1.856 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL037211.D

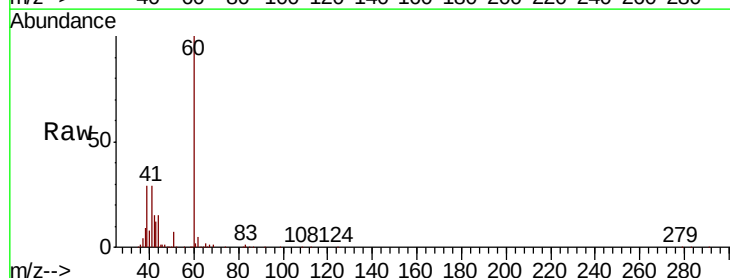
Acq: 17 Jun 2021 21:20

Tgt Ion: 41 Resp: 168220

Ion Ratio Lower Upper

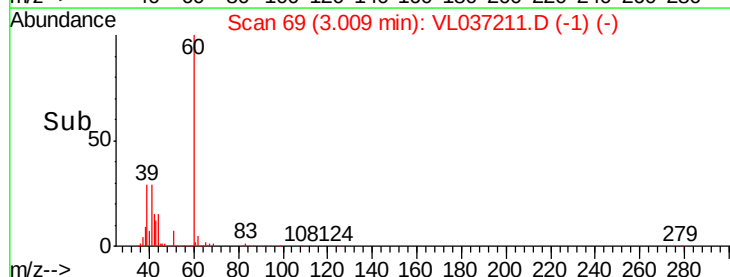
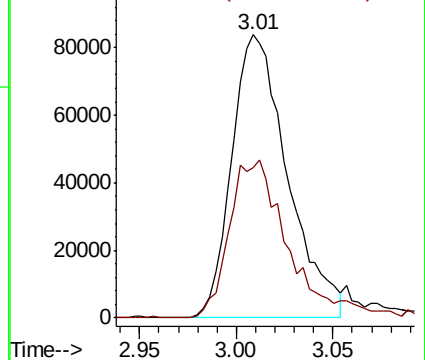
41 100

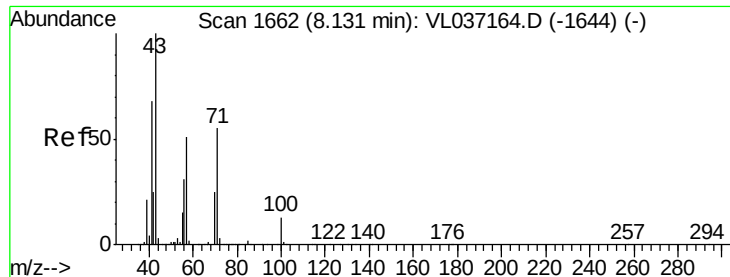
42 60.0 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 1.079 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

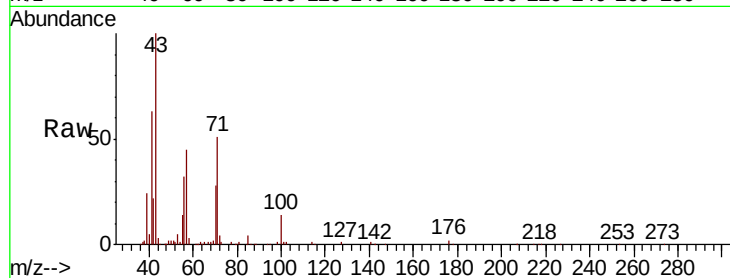
SV2

Tot Ion: 43 Resp: 236851

Ion Ratio Lower Upper

43 100

57 49.5 40.6 61.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.12

120000

100000

80000

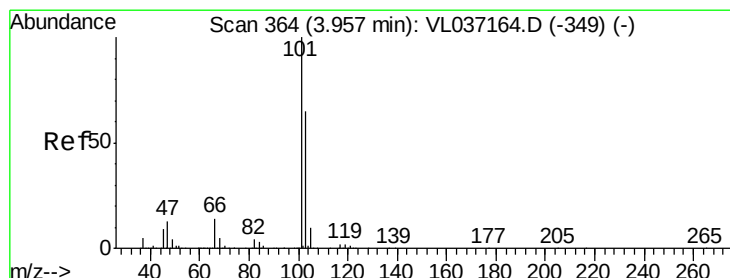
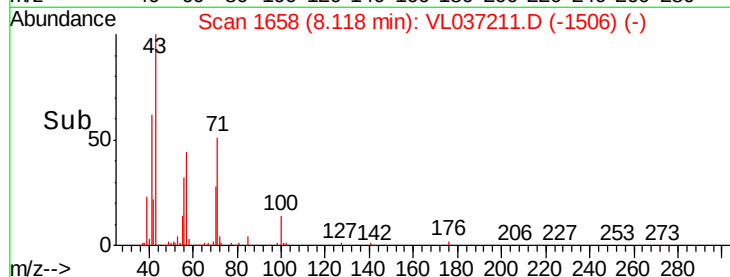
60000

40000

20000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.227 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL037211.D

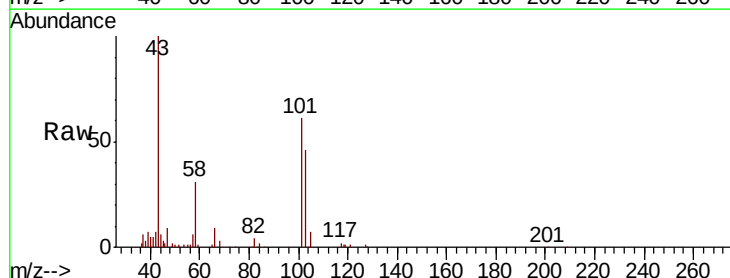
Acq: 17 Jun 2021 21:20

Tgt Ion: 101 Resp: 61528

Ion Ratio Lower Upper

101 100

103 74.4 52.2 78.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.95

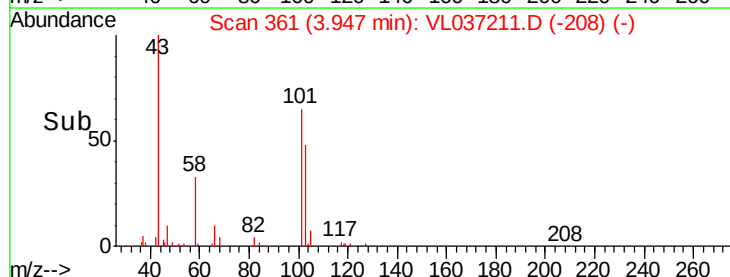
30000

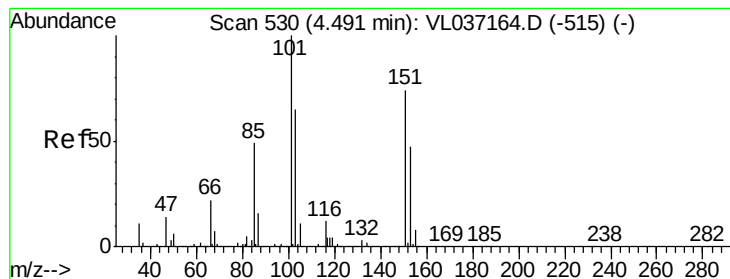
20000

10000

0

Time-->





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.034 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

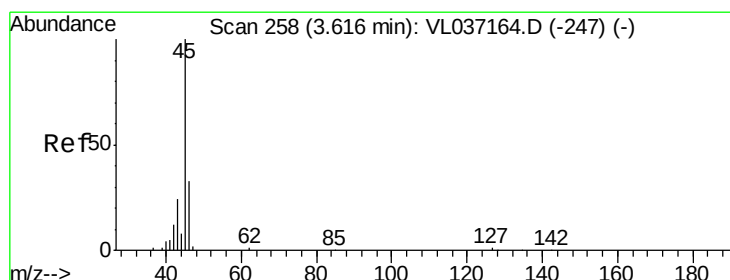
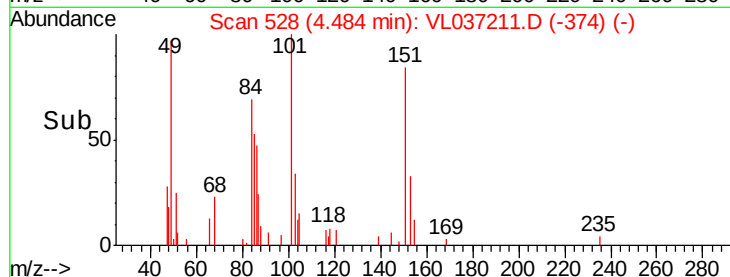
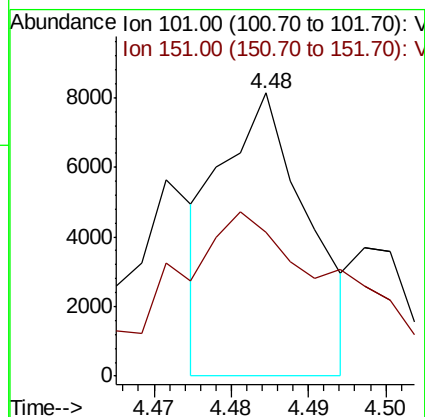
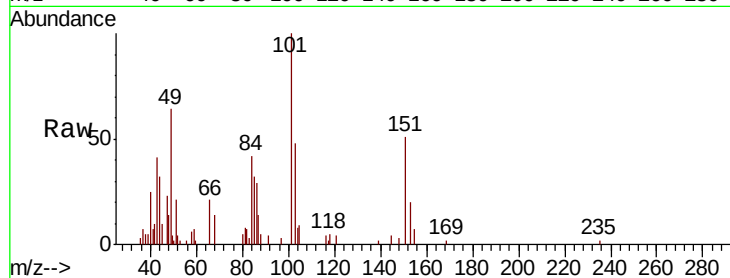
SV2

Tot Ion:101 Resp: 6426

Ion Ratio Lower Upper

101 100

151 141.4 59.1 88.7#



#13

Ethanol

Concen: 10.272 ppbv

RT: 3.61 min Scan# 257

Delta R.T. -0.00 min

Lab File: VL037211.D

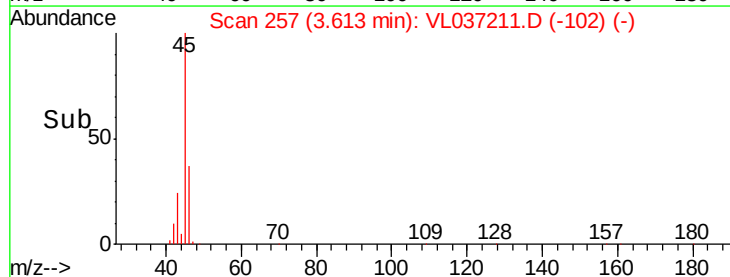
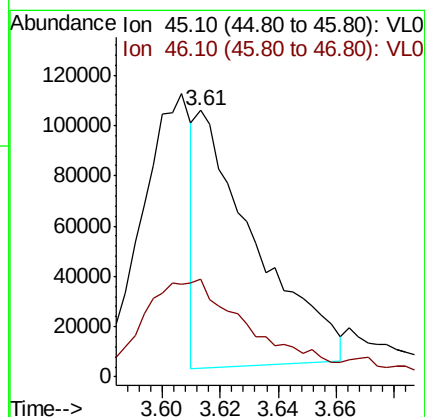
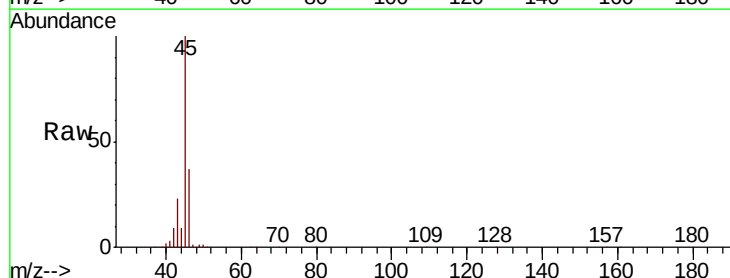
Acq: 17 Jun 2021 21:20

Tgt Ion: 45 Resp: 144023

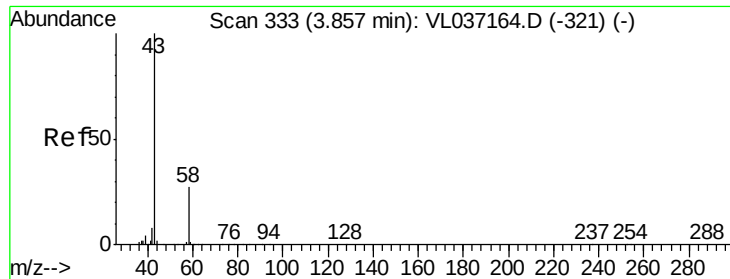
Ion Ratio Lower Upper

45 100

46 82.3 34.2 137.0



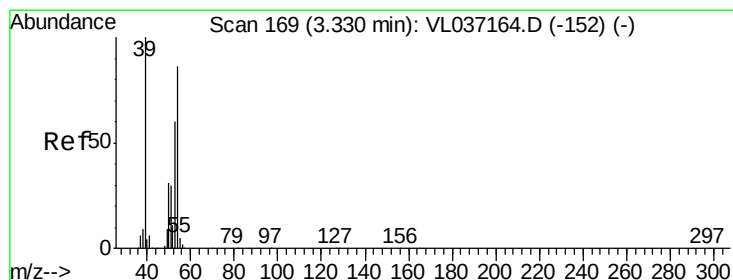
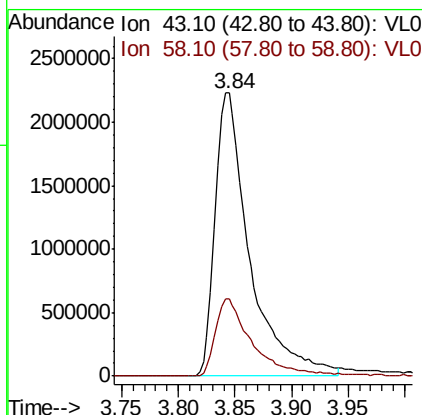
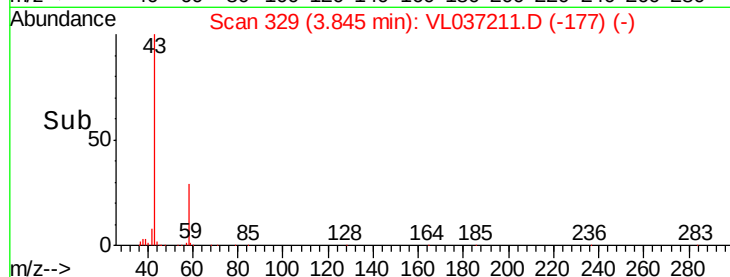
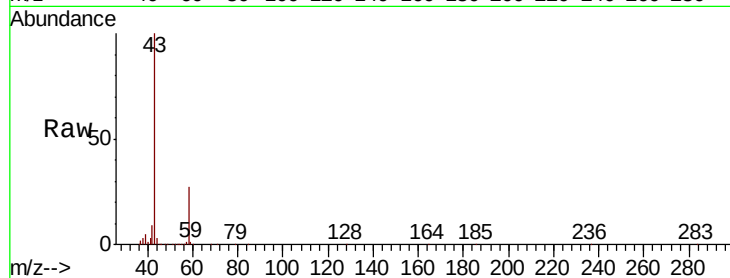




#15  
Acetone  
Concen: 28.933 ppbv  
RT: 3.84 min Scan# 329  
Delta R.T. -0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

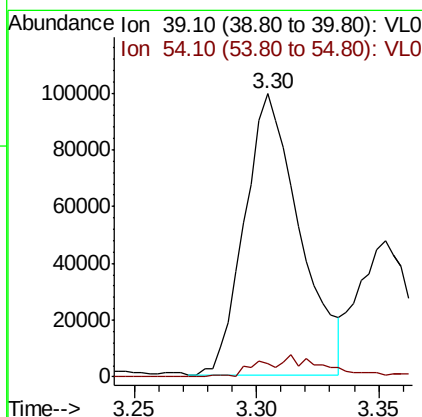
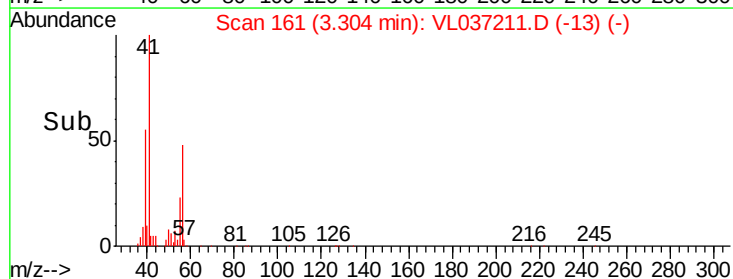
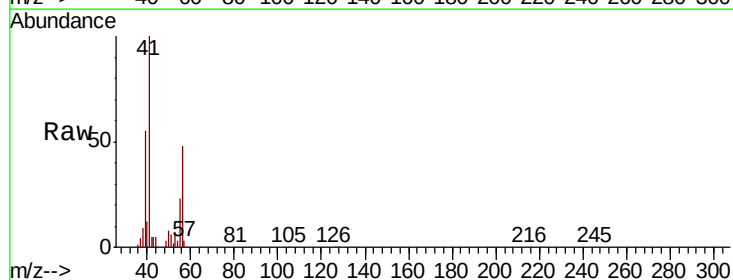
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SV2

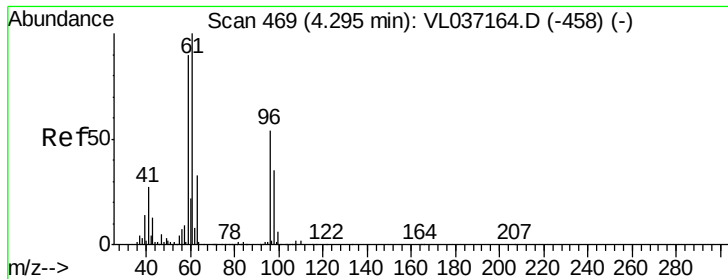
Tot Ion: 43 Resp: 4756556  
Ion Ratio Lower Upper  
43 100  
58 30.1 23.7 35.5



#16  
1,3-Butadiene  
Concen: 1.604 ppbv  
RT: 3.30 min Scan# 161  
Delta R.T. -0.03 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Tgt Ion: 39 Resp: 155912  
Ion Ratio Lower Upper  
39 100  
54 9.6 61.2 91.8#



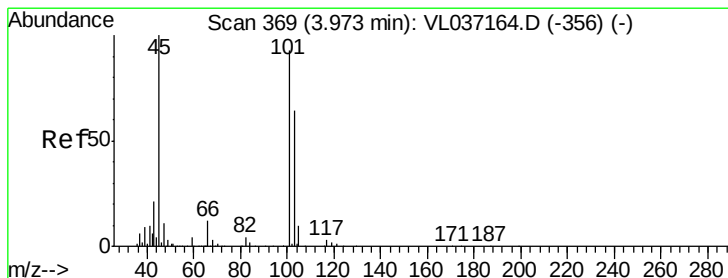
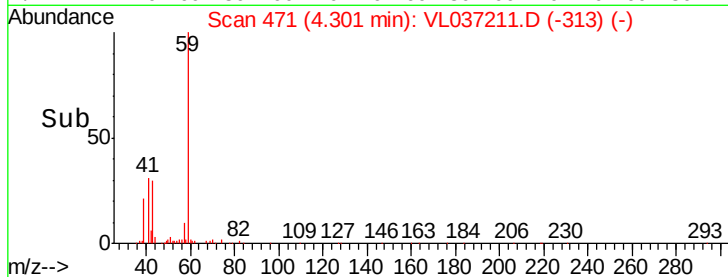
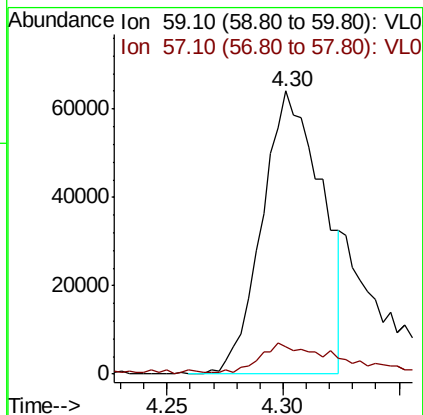
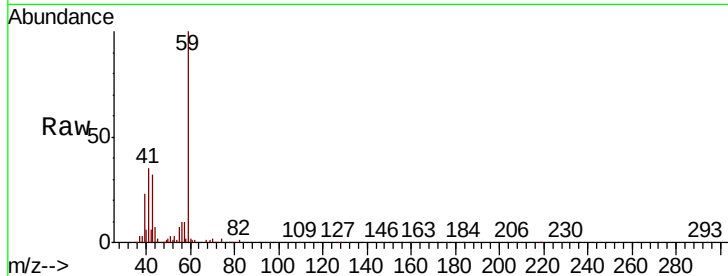


#17

tert-Butyl alcohol  
Concen: 0.753 ppbv  
RT: 4.30 min Scan# 471  
Delta R.T. 0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

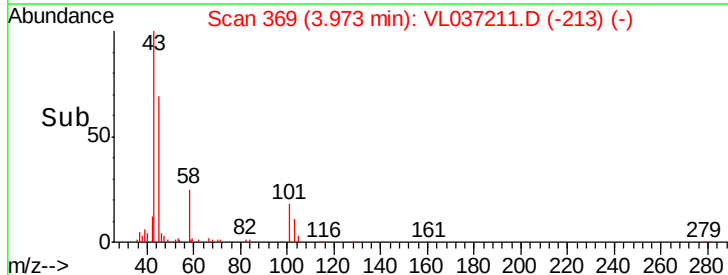
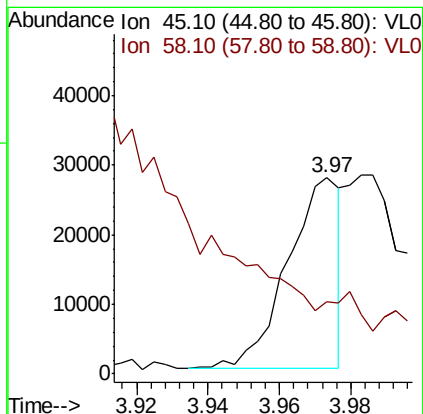
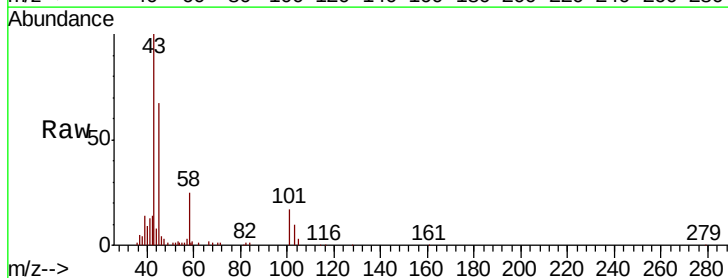
Tot Ion: 59 Resp: 114441  
Ion Ratio Lower Upper  
59 100  
57 16.7 8.8 13.2#

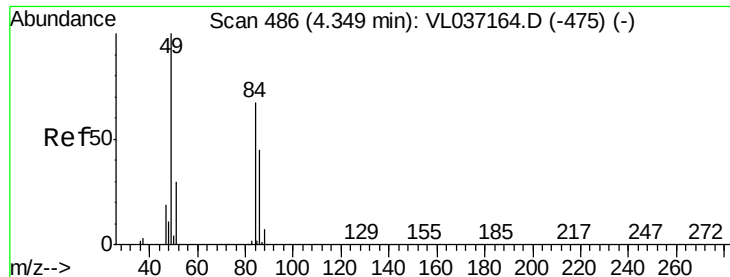


#19

Isopropyl Alcohol  
Concen: 0.280 ppbv  
RT: 3.97 min Scan# 369  
Delta R.T. 0.00 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Tgt Ion: 45 Resp: 27922  
Ion Ratio Lower Upper  
45 100  
58 0.0 2.4 3.6#

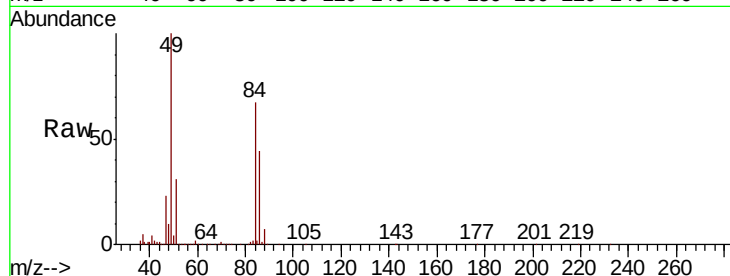




#20  
Methvlene Chloride  
Concen: 9.238 ppbv  
RT: 4.34 min Scan# 484  
Delta R.T. -0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 909222 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 149.8 | 119.7 | 179.5  |
| 51       | 46.4  | 36.1  | 54.1   |
| 86       | 66.0  | 53.7  | 80.5   |



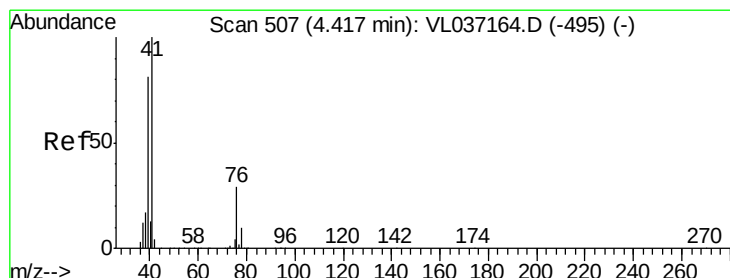
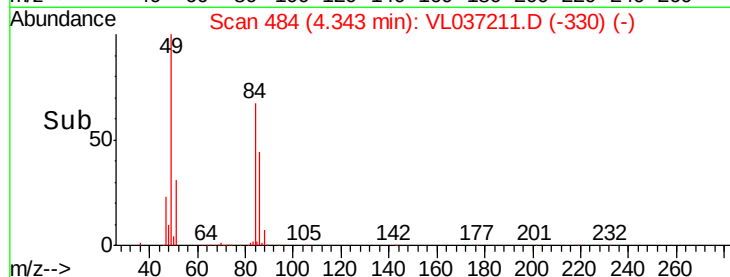
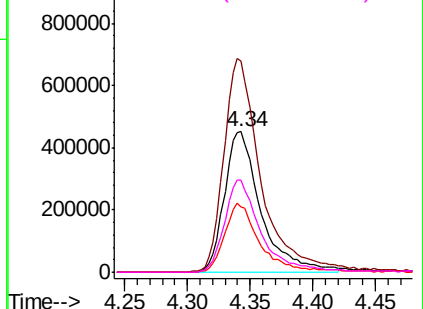
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

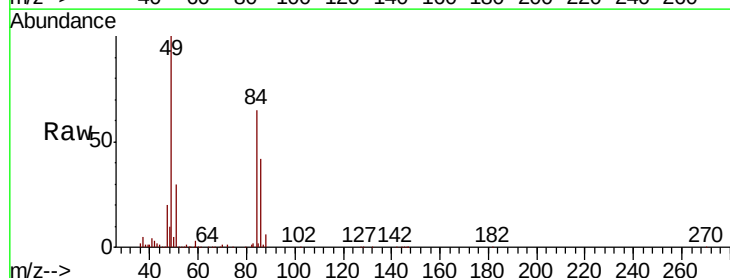
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21  
Allyl Chloride  
Concen: 0.057 ppbv  
RT: 4.35 min Scan# 487  
Delta R.T. -0.06 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 7105  |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 0.0   | 24.6  | 37.0# |
| 39       | 0.0   | 65.4  | 98.0# |

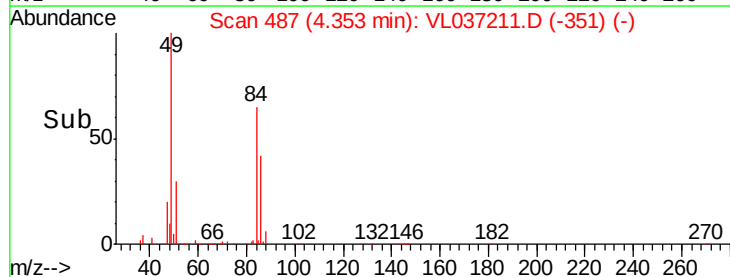
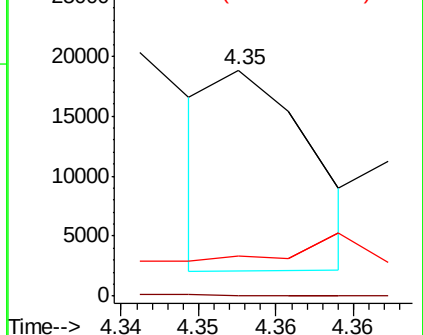


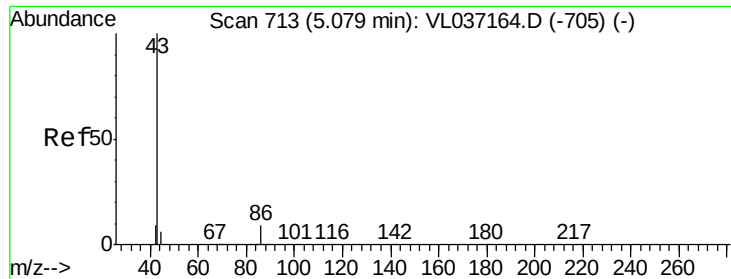
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.139 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.02 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

SV2

Tot Ion: 43 Resp: 32749

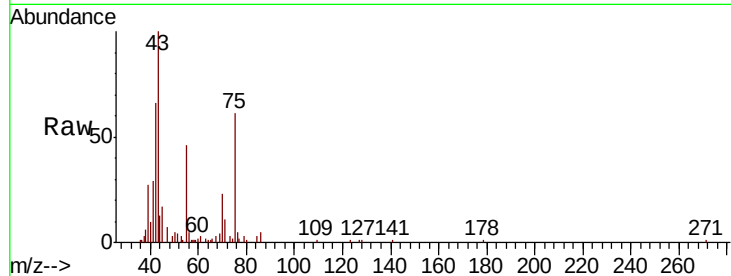
Ion Ratio Lower Upper

43 100

86 4.3 5.8 8.8#

42 61.8 8.2 12.2#

44 4.7 4.2 6.4

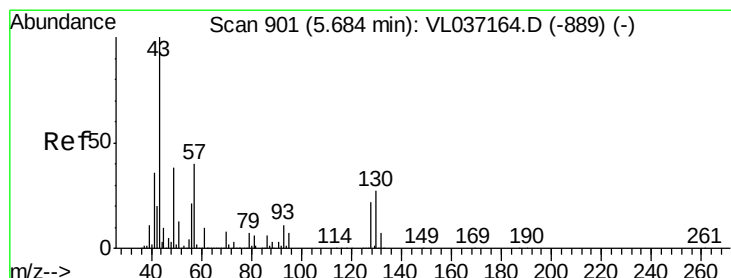
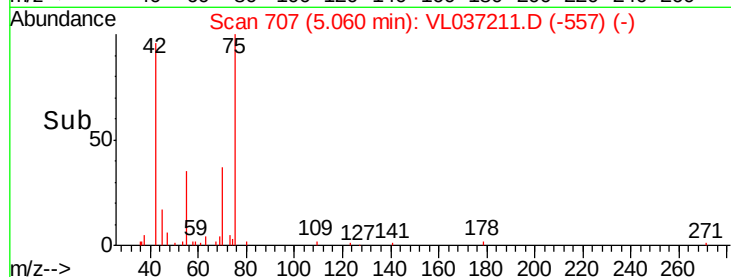
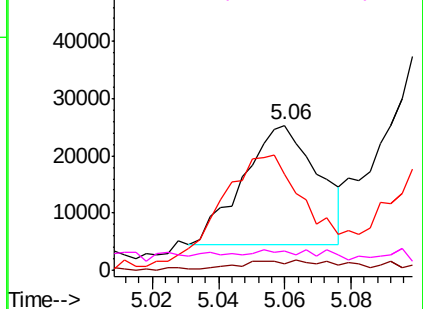


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 5.670 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.00 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Tgt Ion: 43 Resp: 2017996

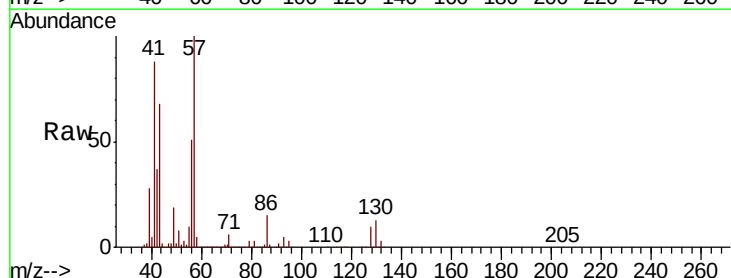
Ion Ratio Lower Upper

43 100

45 0.1 8.0 12.0#

61 0.2 8.1 12.1#

70 1.4 5.5 8.3#

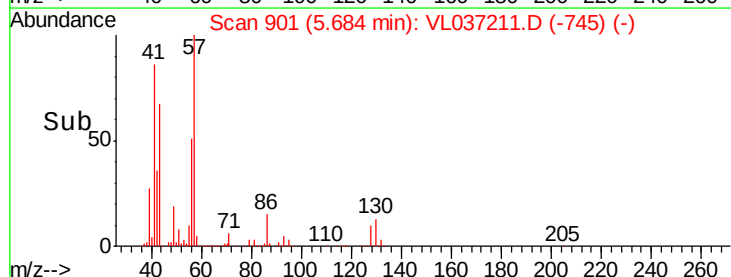
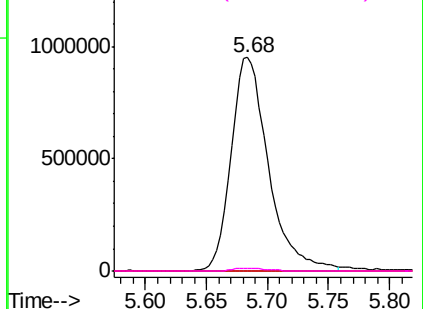


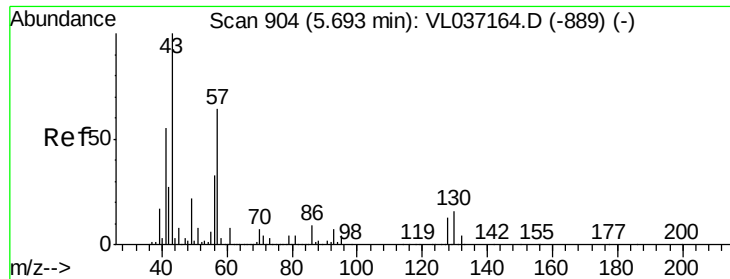
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 16.154 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

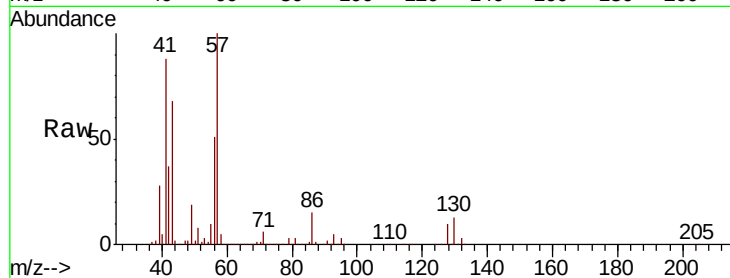
MSVOA\_L

ClientSampleId :

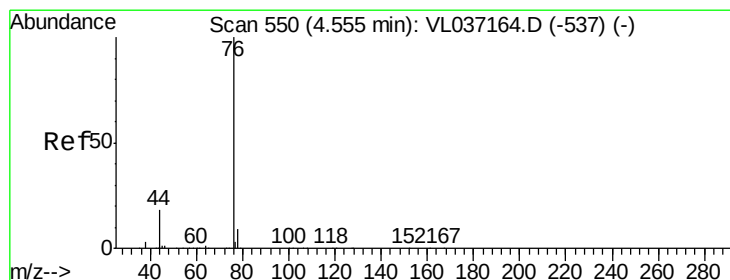
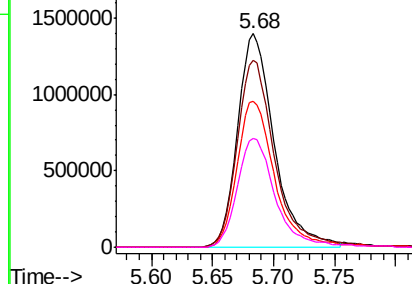
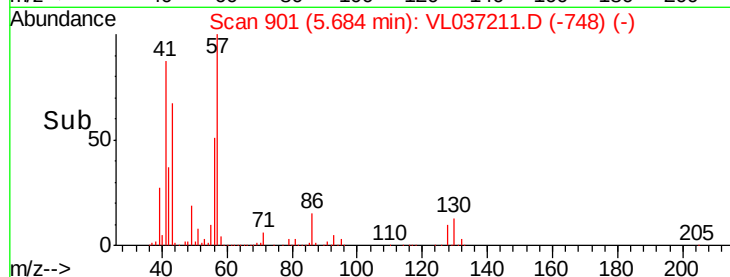
SV2

Tot Ion: 57 Resp: 2905796

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 57  | 100   |       |        |
| 41  | 91.0  | 73.5  | 110.3  |
| 43  | 70.9  | 170.7 | 256.1# |
| 56  | 53.1  | 42.4  | 63.6   |



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: 6.270 ppbv

RT: 4.55 min Scan# 548

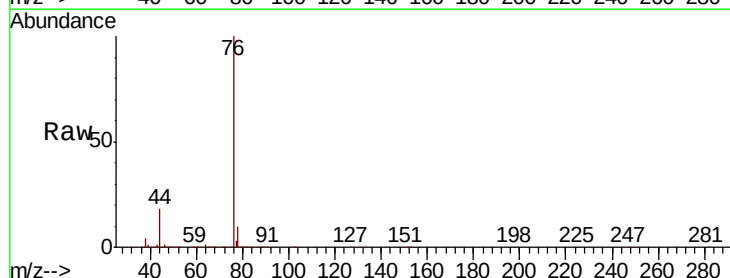
Delta R.T. -0.01 min

Lab File: VL037211.D

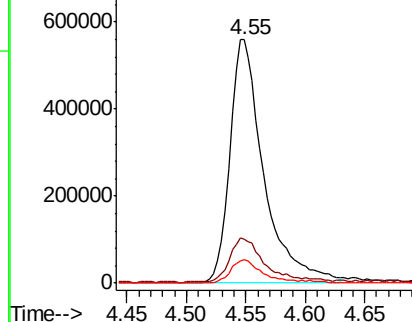
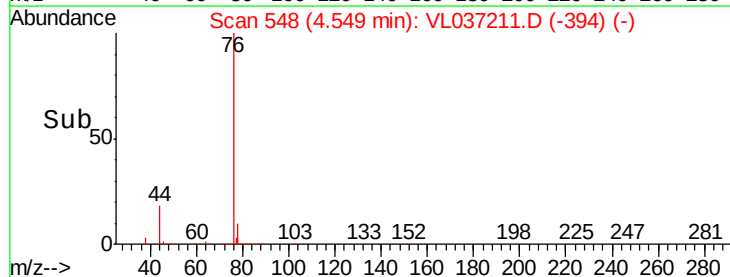
Acq: 17 Jun 2021 21:20

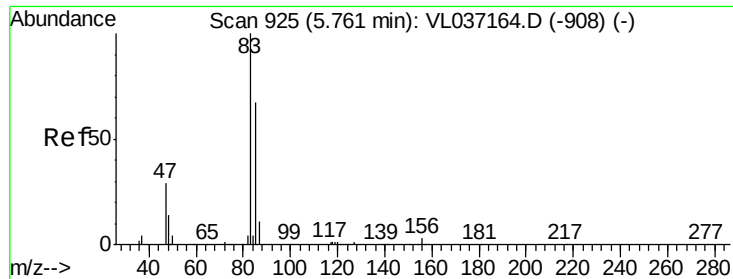
Tgt Ion: 76 Resp: 1105051

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 19.4  | 15.4  | 23.2  |
| 78  | 9.5   | 8.0   | 12.0  |



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

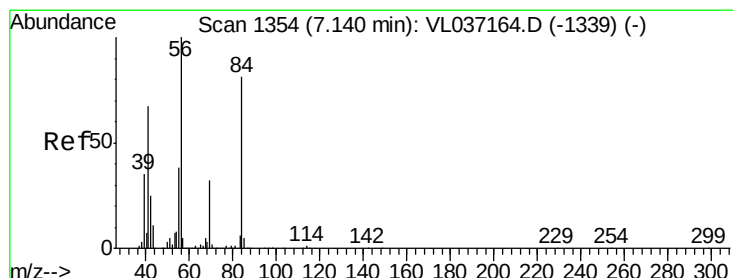
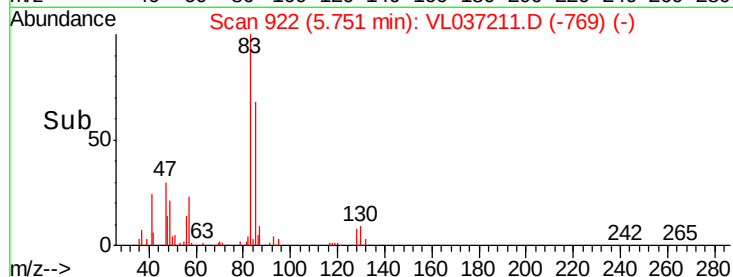
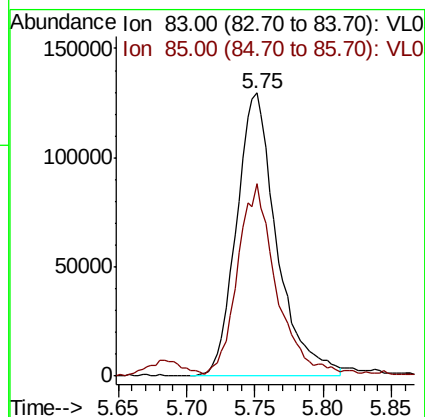
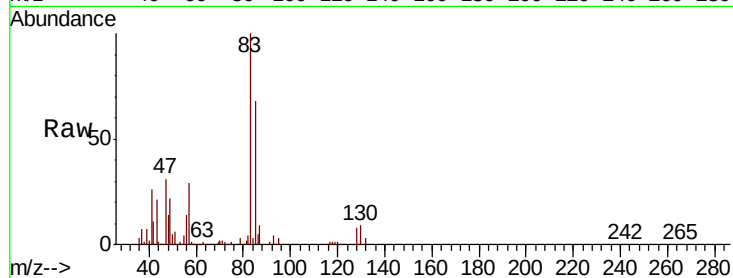




#29  
Chloroform  
Concen: 0.959 ppbv  
RT: 5.75 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

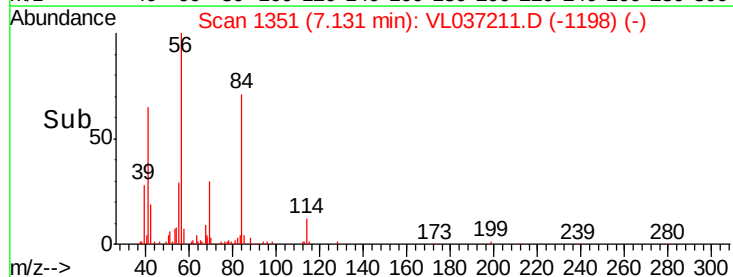
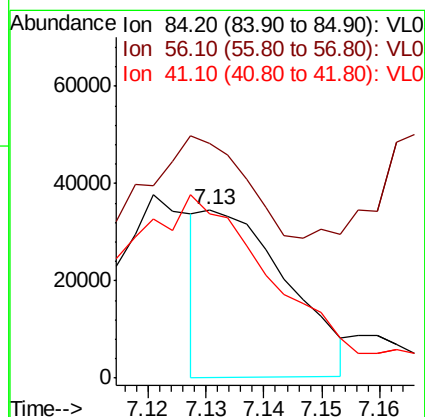
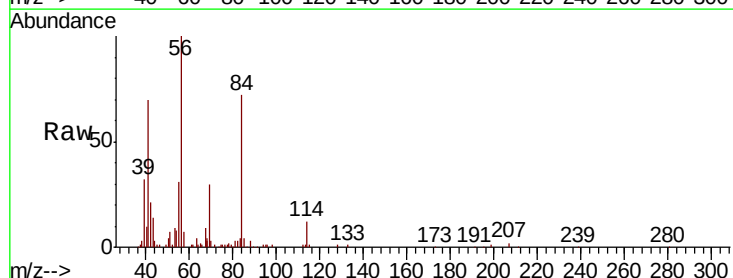
Instrument :  
MSVOA\_L  
ClientSampled :  
SV2

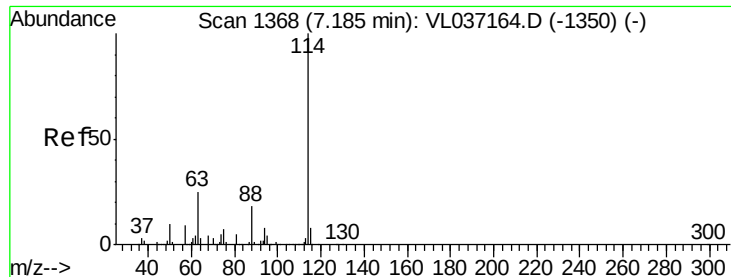
Tot Ion: 83 Resp: 266378  
Ion Ratio Lower Upper  
83 100  
85 66.4 53.6 80.4



#30  
Cyclohexane  
Concen: 0.233 ppbv  
RT: 7.13 min Scan# 1351  
Delta R.T. -0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Tgt Ion: 84 Resp: 34929  
Ion Ratio Lower Upper  
84 100  
56 299.5 107.7 161.5#  
41 231.3 69.0 103.6#

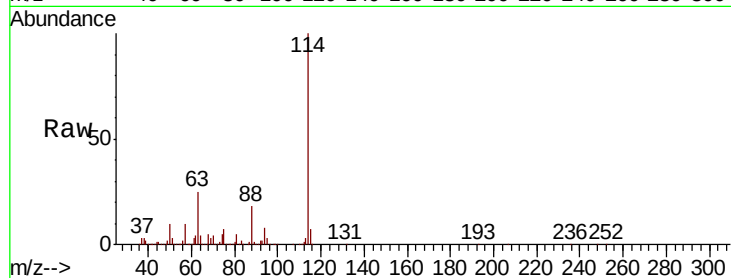




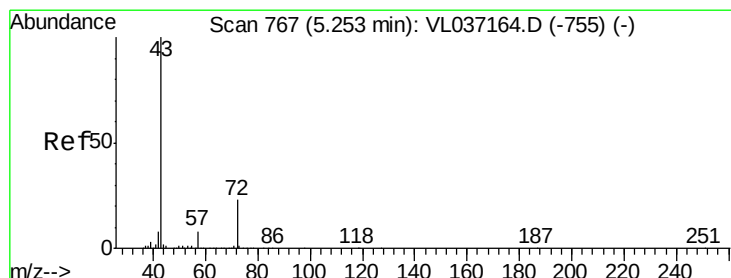
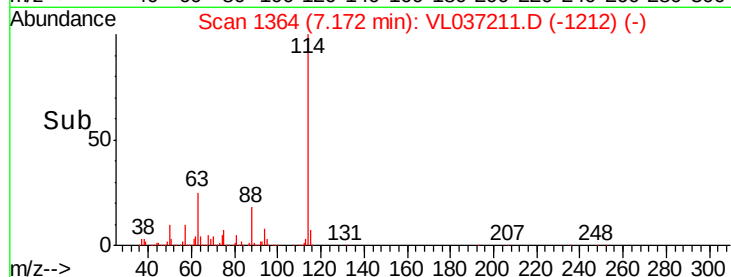
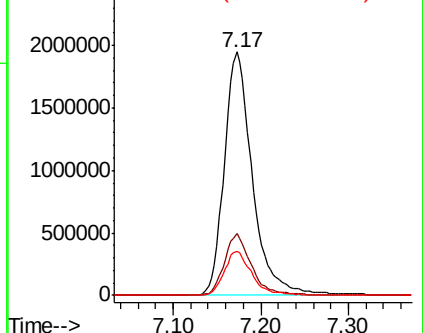
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. -0.01 min  
 Lab File: VL037211.D  
 Acq: 17 Jun 2021 21:20

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2

Tot Ion:114 Resp: 4352066  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 19.6 29.4  
 88 18.1 14.2 21.2

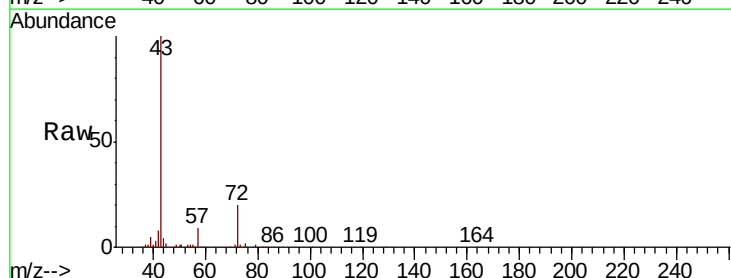


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

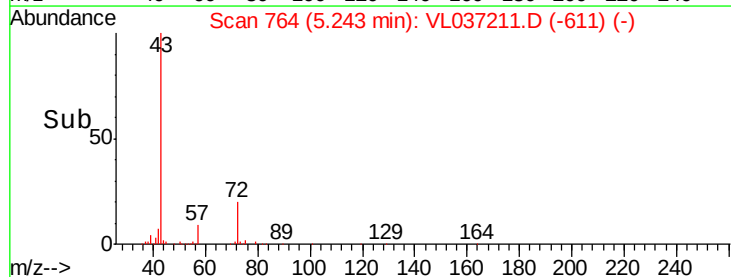
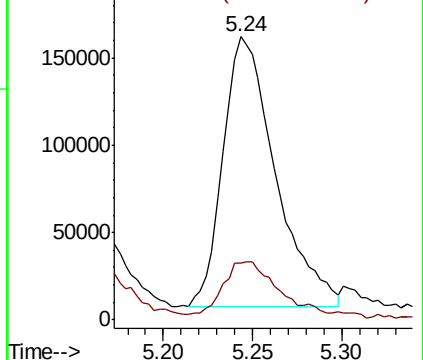


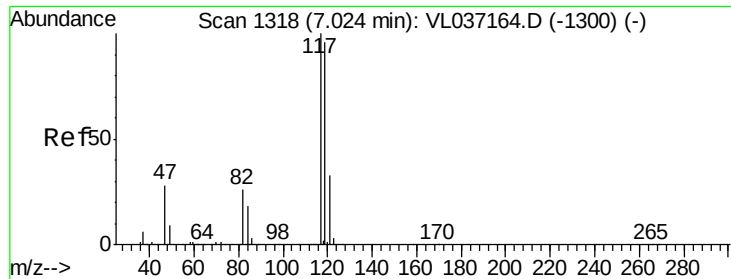
#34  
 2-Butanone  
 Concen: 1.864 ppbv  
 RT: 5.24 min Scan# 764  
 Delta R.T. -0.01 min  
 Lab File: VL037211.D  
 Acq: 17 Jun 2021 21:20

Tgt Ion: 43 Resp: 315469  
 Ion Ratio Lower Upper  
 43 100  
 72 25.9 18.9 28.3



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





#35

Carbon Tetrachloride

Concen: 0.022 ppbv

RT: 7.01 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampled :

SV2

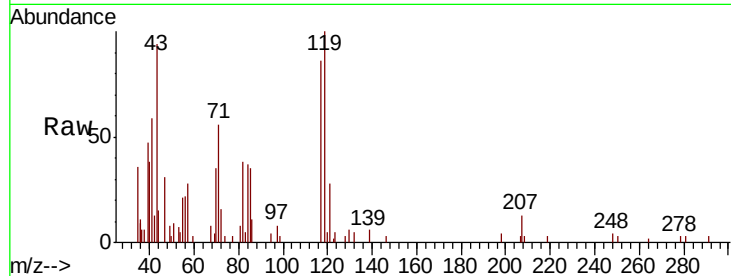
Tot Ion:117 Resp: 6416

Ion Ratio Lower Upper

117 100

119 103.6 76.6 114.8

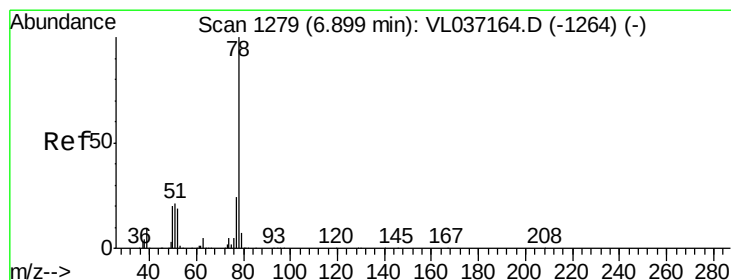
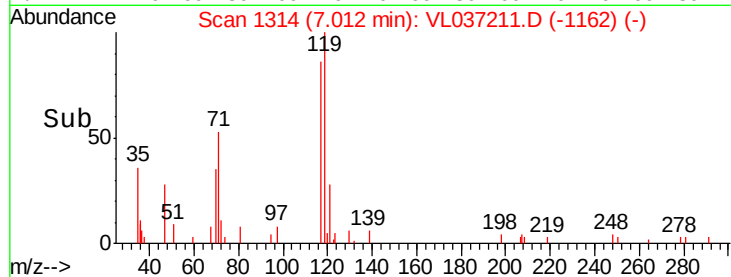
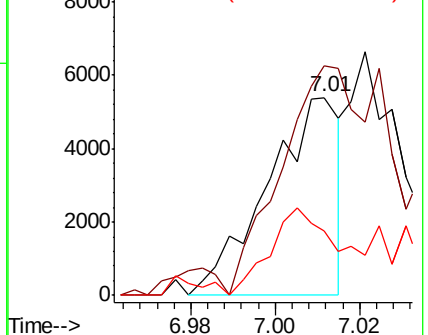
121 26.4 26.4 39.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.303 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

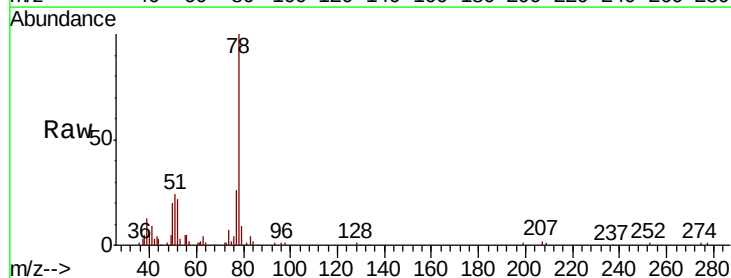
Tgt Ion: 78 Resp: 106534

Ion Ratio Lower Upper

78 100

77 25.2 19.0 28.6

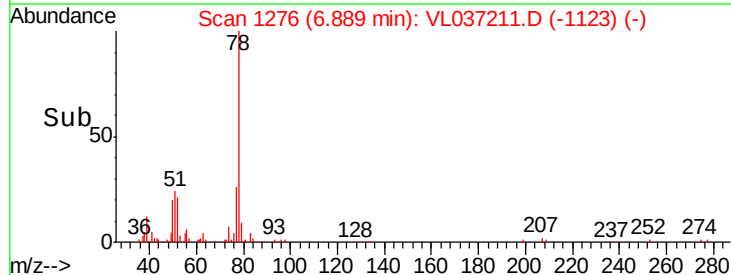
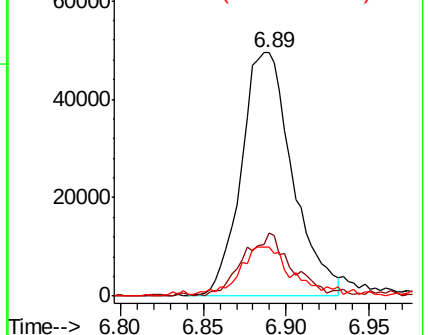
50 17.9 15.7 23.5



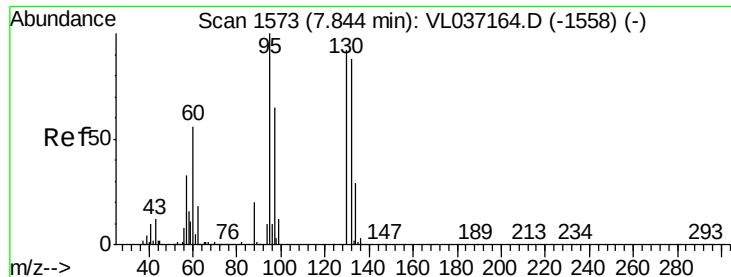
Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0







#38

Trichloroethene

Concen: 0.128 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.02 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

SV2

Tot Ion:130 Resp: 21436

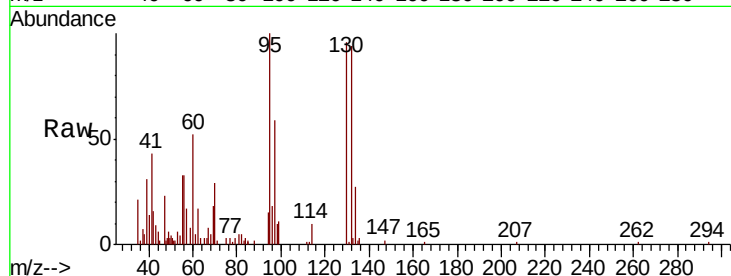
Ion Ratio Lower Upper

130 100

95 103.1 86.6 129.8

132 96.9 76.6 114.8

97 60.3 56.1 84.1

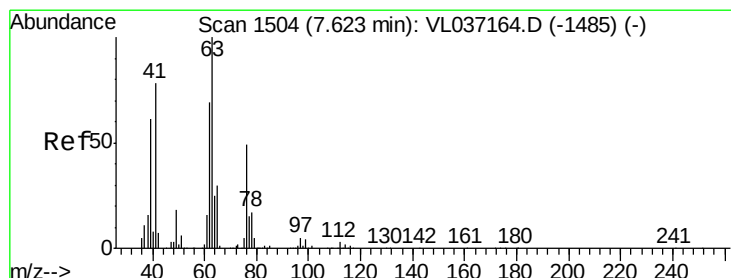
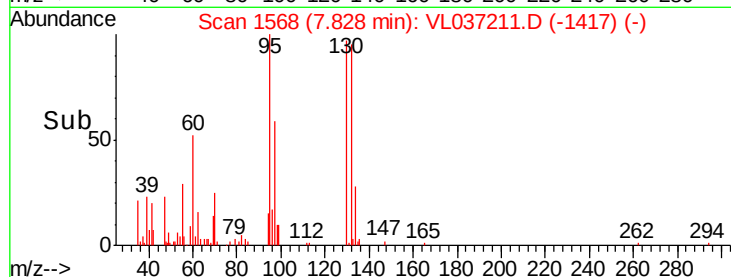
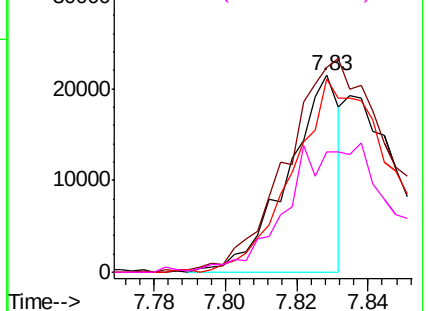


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.937 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

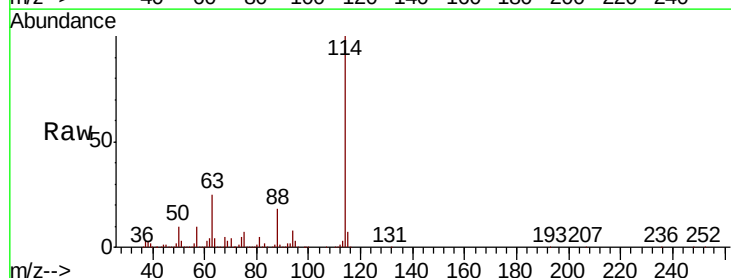
Tgt Ion: 63 Resp: 1037876

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

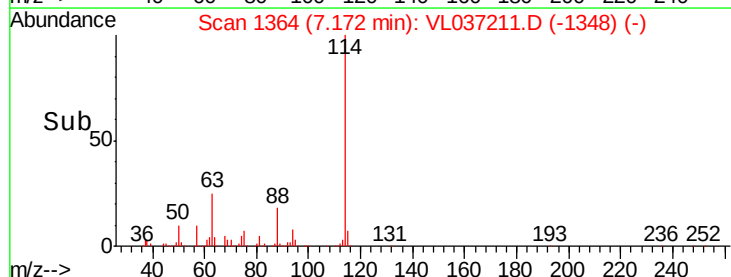
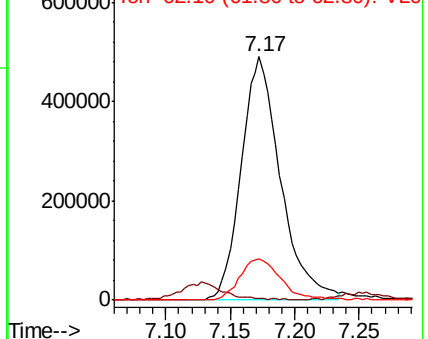
62 16.9 54.9 82.3#

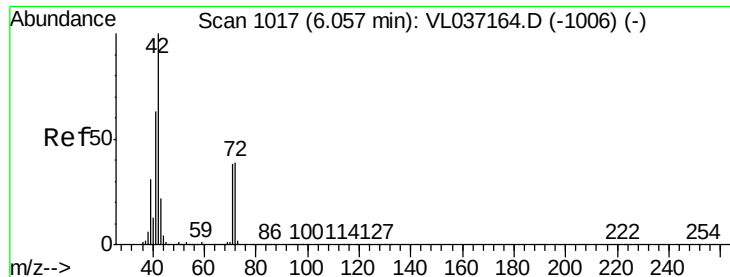


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

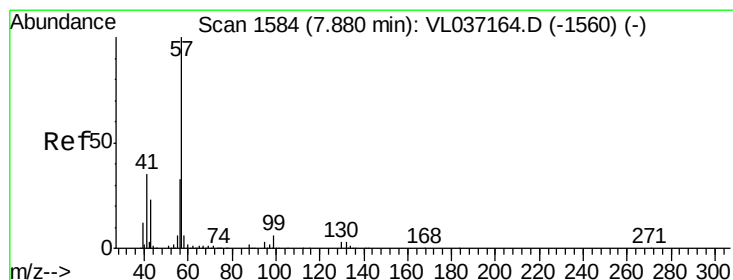
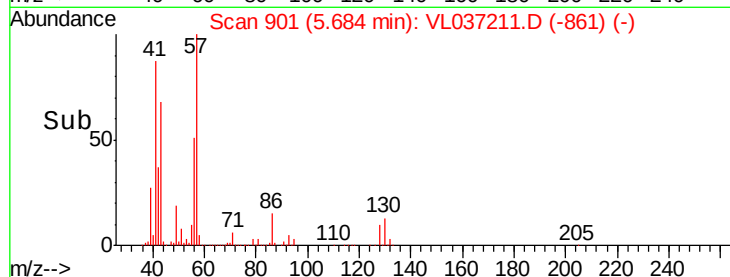
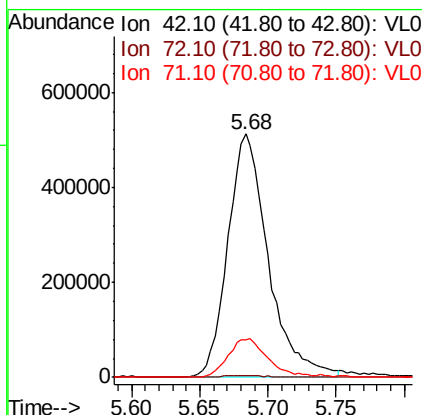
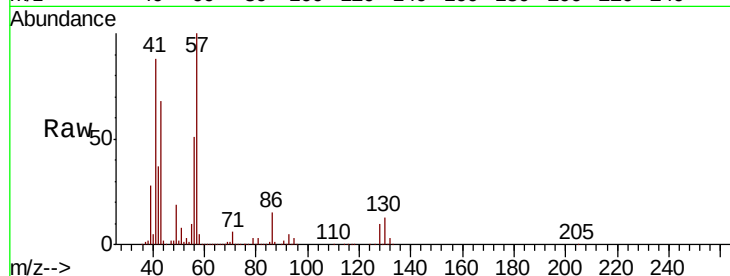




#41  
Tetrahydrofuran  
Concen: 13.328 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.37 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

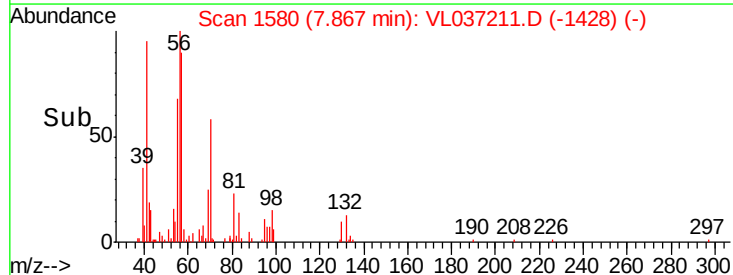
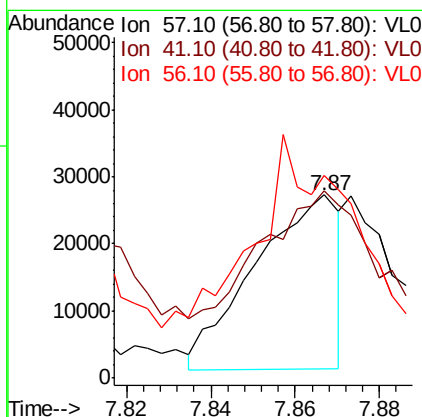
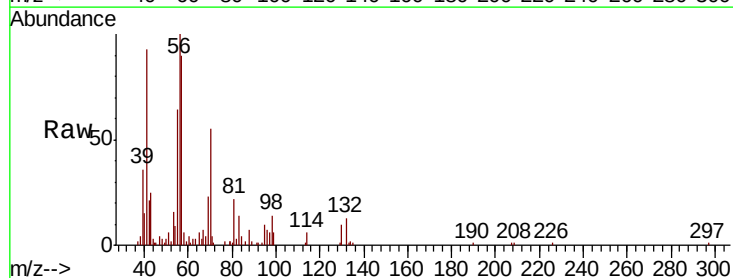
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

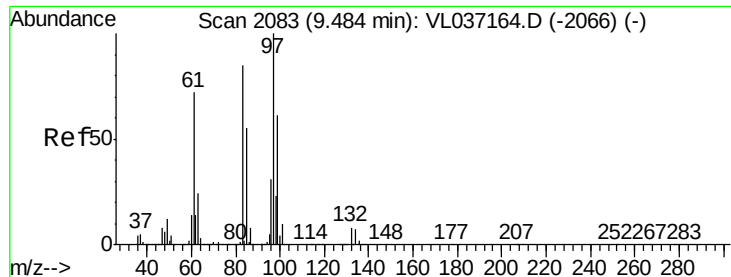
Tot Ion: 42 Resp: 1047812  
Ion Ratio Lower Upper  
42 100  
72 1.1 33.0 49.4#  
71 16.6 31.0 46.6#



#44  
2,2,4-Trimethylpentane  
Concen: 0.060 ppbv  
RT: 7.87 min Scan# 1580  
Delta R.T. -0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Tgt Ion: 57 Resp: 35822  
Ion Ratio Lower Upper  
57 100  
41 187.2 27.6 41.4#  
56 205.0 25.3 37.9#

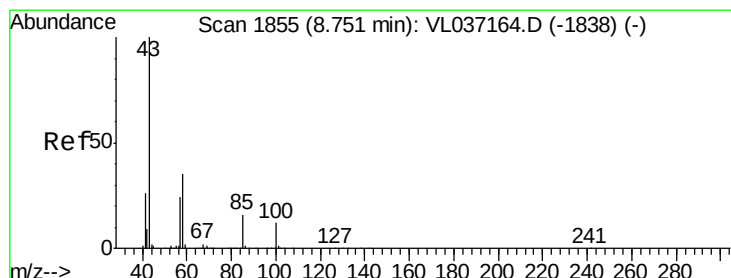
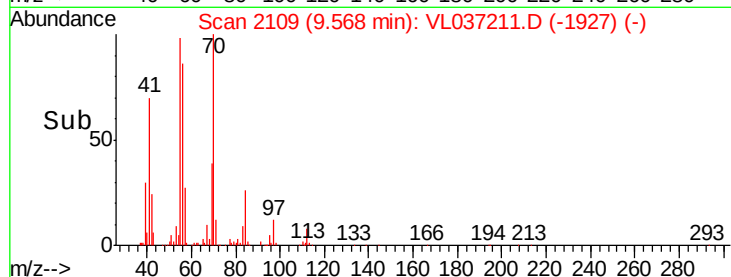
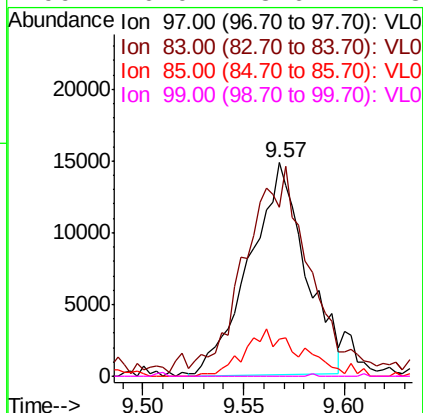
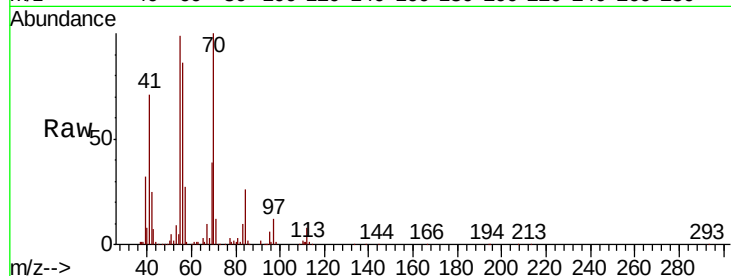




#47  
 1,1,2-Trichloroethane  
 Concen: 0.192 ppbv  
 RT: 9.57 min Scan# 2109  
 Delta R.T. 0.08 min  
 Lab File: VL037211.D  
 Acq: 17 Jun 2021 21:20

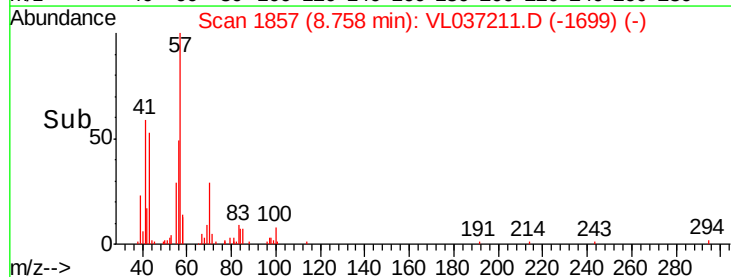
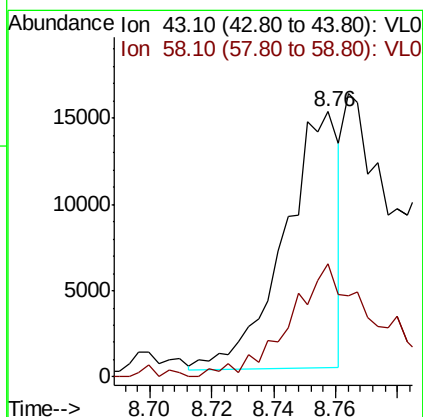
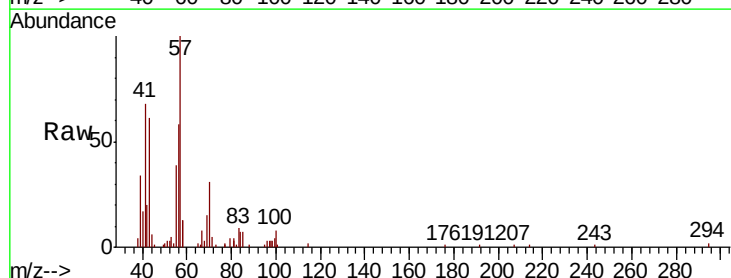
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2

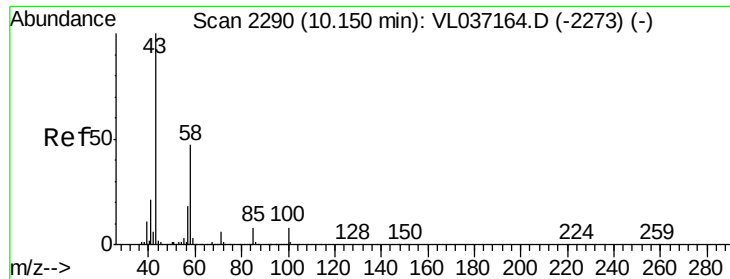
Tot Ion: 97 Resp: 28608  
 Ion Ratio Lower Upper  
 97 100  
 83 76.8 68.3 102.5  
 85 17.6 44.1 66.1#  
 99 0.0 48.6 72.8#



#50  
 4-Methyl-2-Pentanone  
 Concen: 0.078 ppbv  
 RT: 8.76 min Scan# 1857  
 Delta R.T. 0.01 min  
 Lab File: VL037211.D  
 Acq: 17 Jun 2021 21:20

Tgt Ion: 43 Resp: 18128  
 Ion Ratio Lower Upper  
 43 100  
 58 66.5 28.4 42.6#





#51

2-Hexanone

Concen: 0.192 ppbv

RT: 10.14 min Scan# 2288

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampled :

SV2

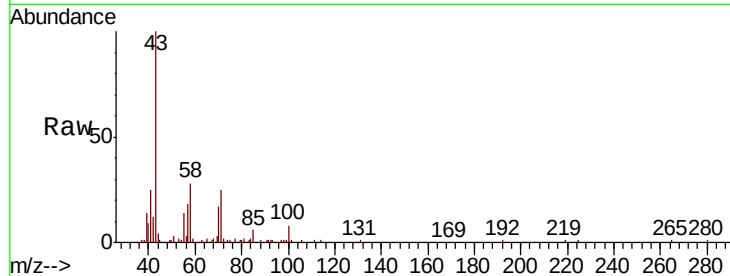
Tot Ion: 43 Resp: 21664

Ion Ratio Lower Upper

43 100

58 204.7 38.4 57.6#

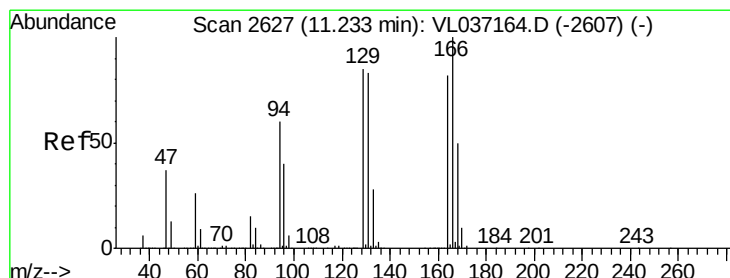
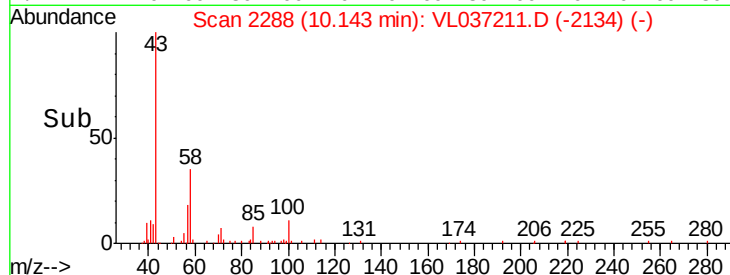
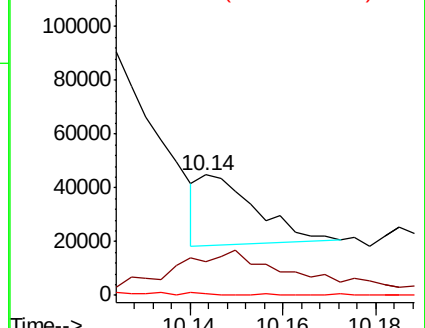
98 0.0 0.3 0.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 4.267 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Tgt Ion:164 Resp: 697786

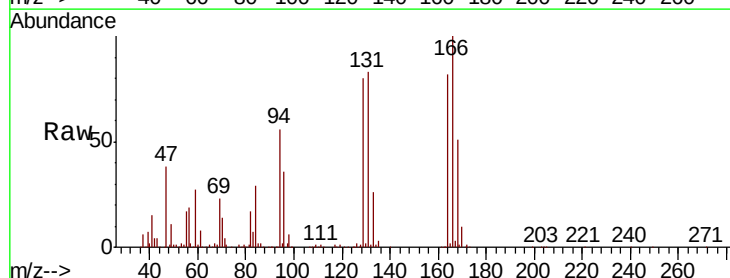
Ion Ratio Lower Upper

164 100

166 122.4 97.6 146.4

129 98.2 82.9 124.3

131 101.2 80.6 120.8

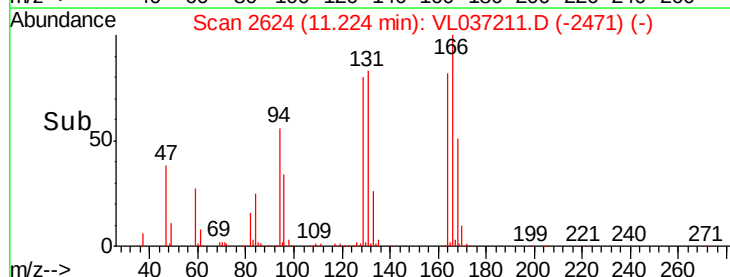
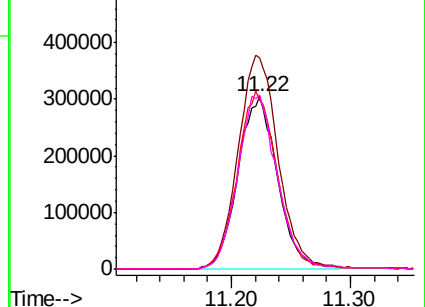


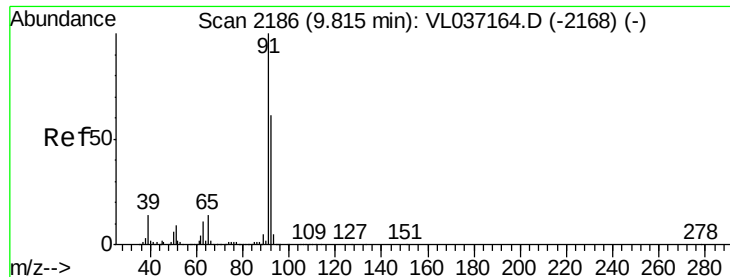
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 1.096 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

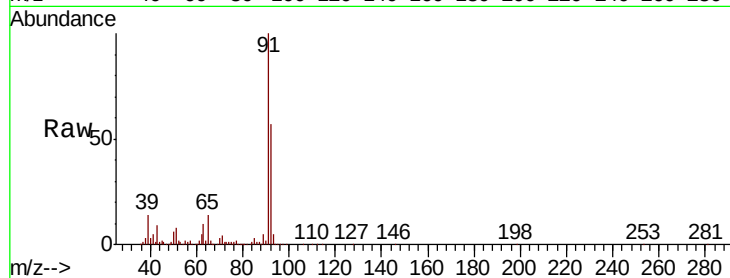
SV2

Tot Ion: 91 Resp: 460561

Ion Ratio Lower Upper

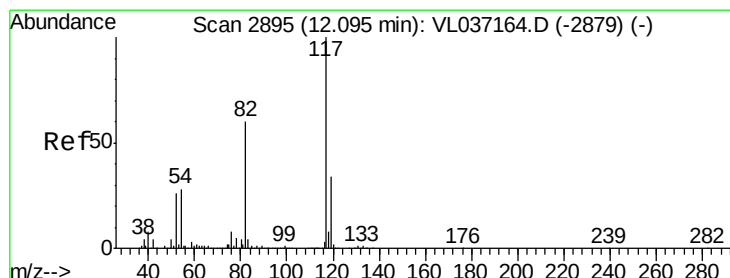
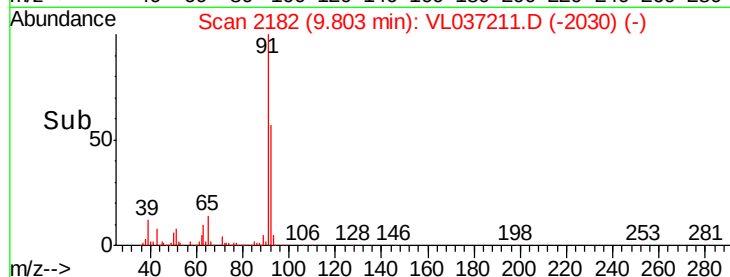
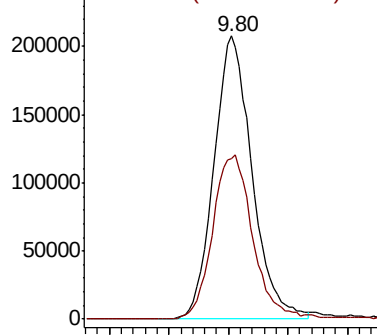
91 100

92 60.9 48.3 72.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

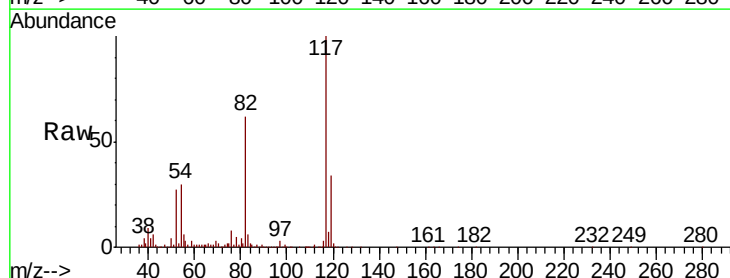
Tgt Ion: 117 Resp: 3854539

Ion Ratio Lower Upper

117 100

82 63.4 51.7 77.5

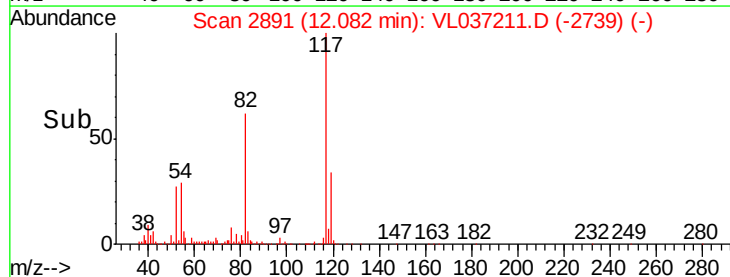
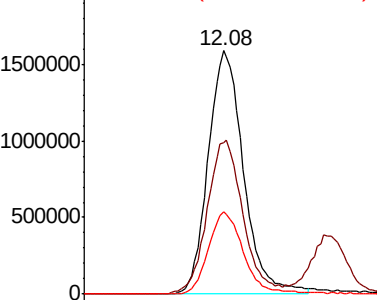
119 34.2 47.6 71.4#

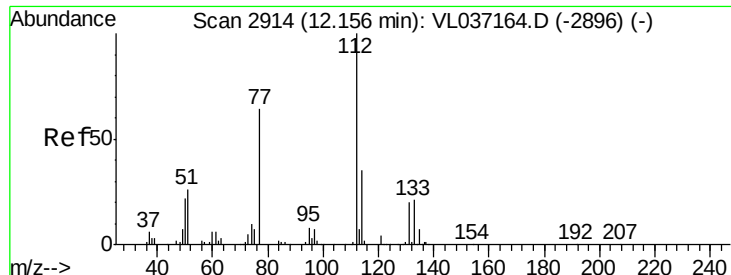


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

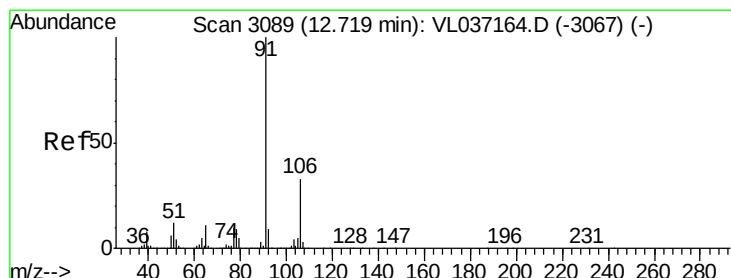
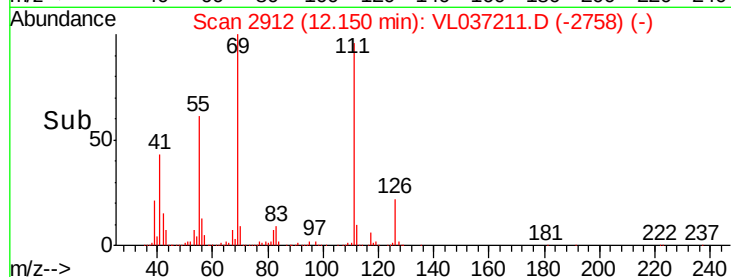
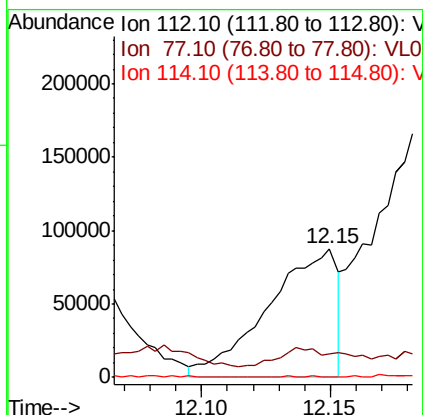
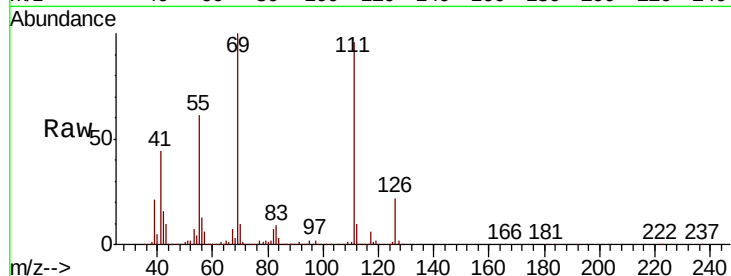




#57  
Chlorobenzene  
Concen: 0.519 ppbv  
RT: 12.15 min Scan# 2912  
Delta R.T. -0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

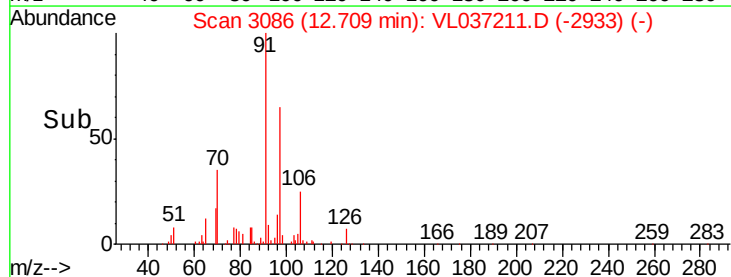
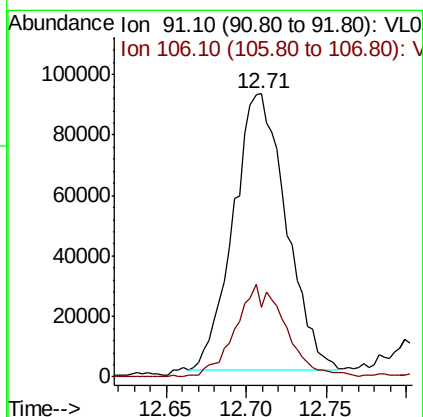
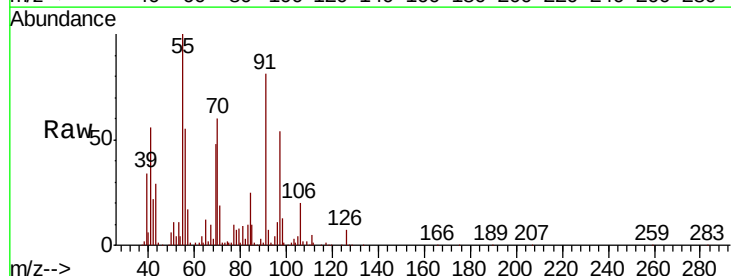
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

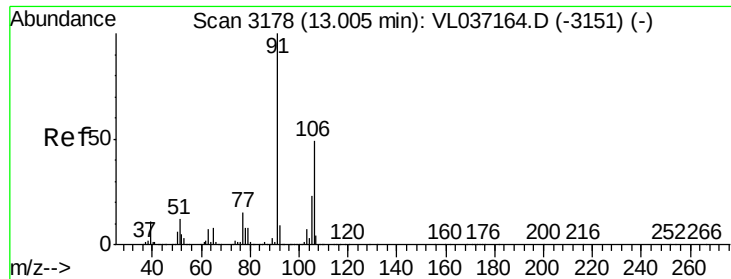
Tot Ion:112 Resp: 162273  
Ion Ratio Lower Upper  
112 100  
77 0.0 52.2 78.4#  
114 0.0 31.1 38.1#



#58  
Ethyl Benzene  
Concen: 0.387 ppbv  
RT: 12.71 min Scan# 3086  
Delta R.T. -0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Tgt Ion: 91 Resp: 205609  
Ion Ratio Lower Upper  
91 100  
106 24.5 26.3 39.5#





#59

m/p-Xylene

Concen: 1.480 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampled :

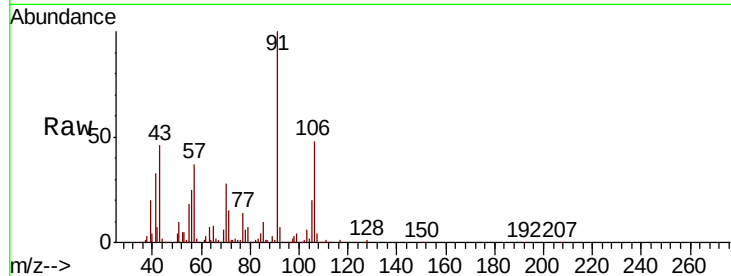
SV2

Tot Ion: 91 Resp: 665650

Ion Ratio Lower Upper

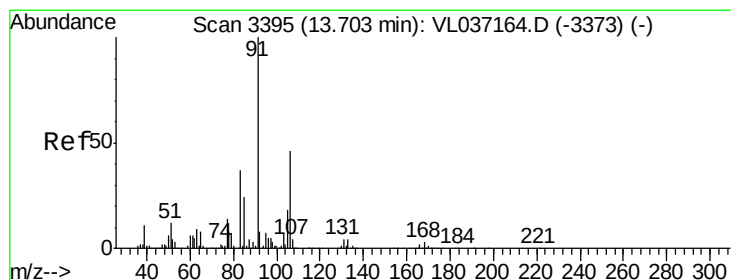
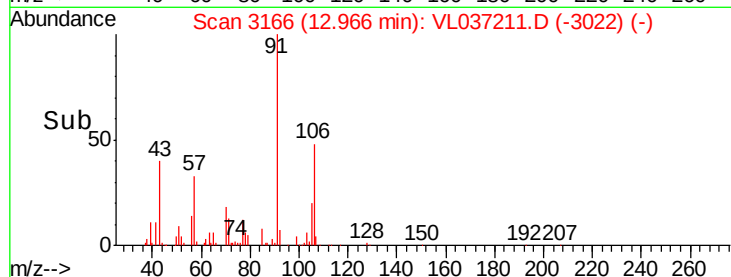
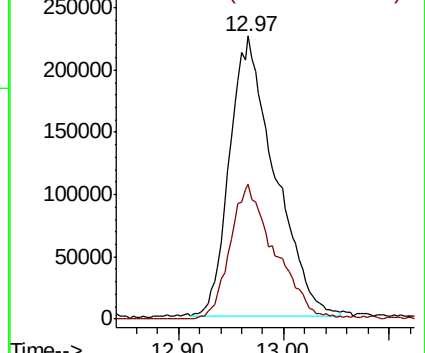
91 100

106 48.7 37.0 55.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.964 ppbv

RT: 13.69 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VL037211.D

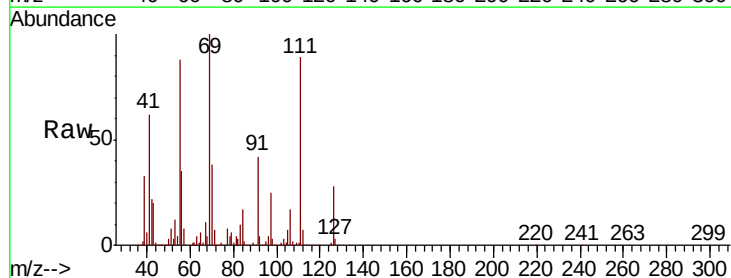
Acq: 17 Jun 2021 21:20

Tgt Ion: 91 Resp: 412839

Ion Ratio Lower Upper

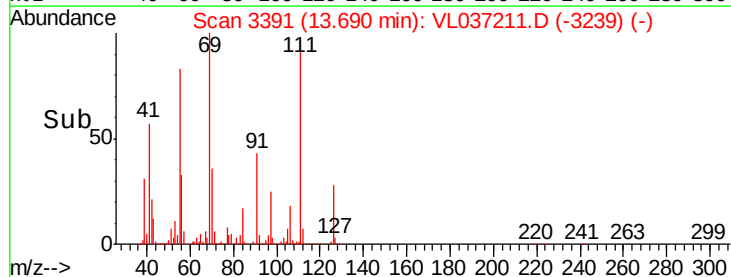
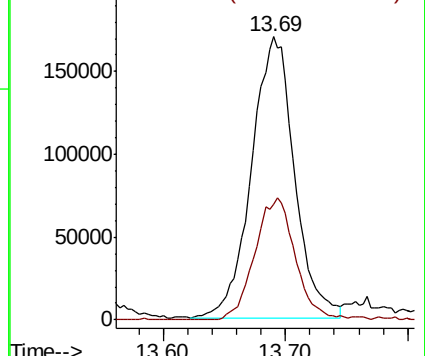
91 100

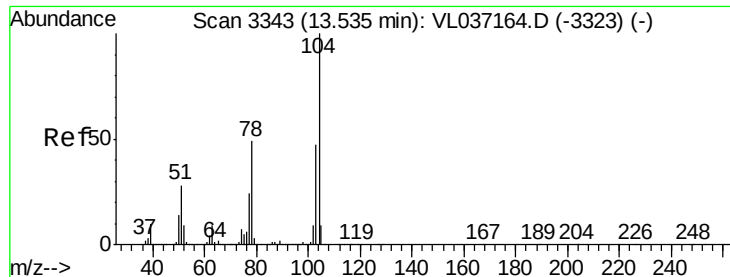
106 41.4 23.0 69.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

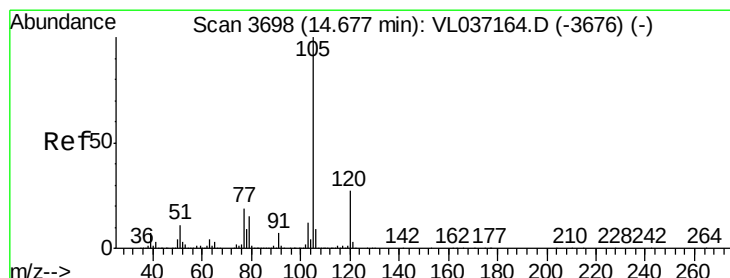
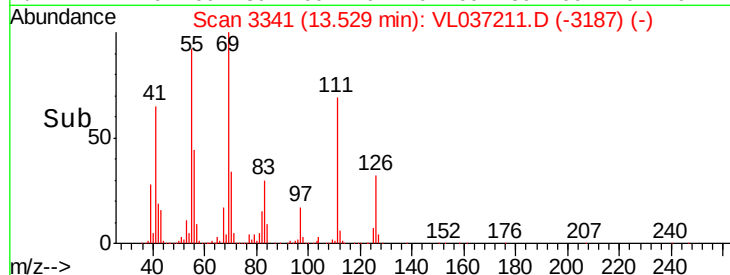
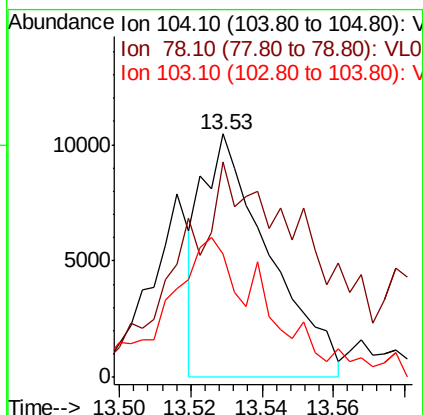
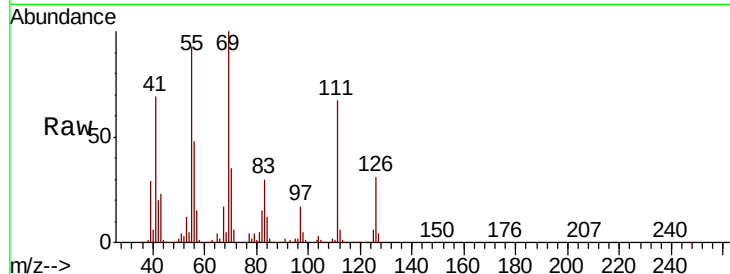




#61  
Stvrene  
Concen: 0.062 ppbv  
RT: 13.53 min Scan# 3341  
Delta R.T. -0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

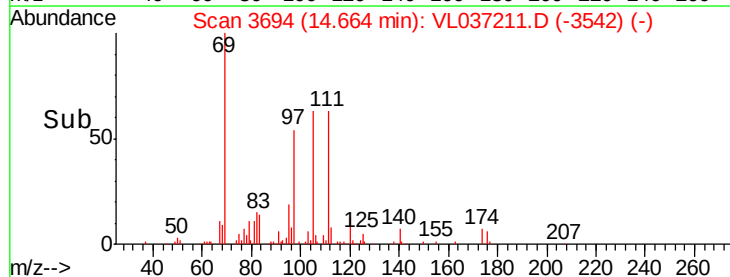
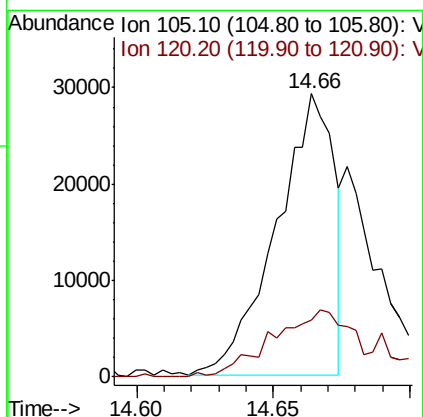
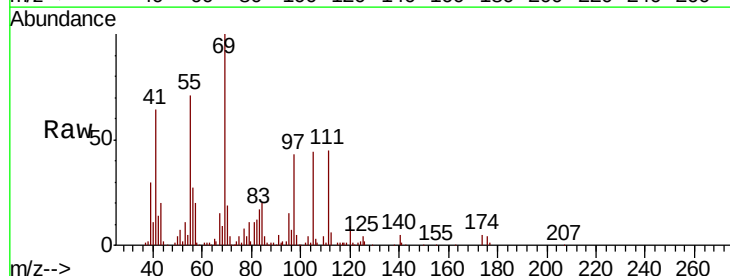
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

Tot Ion:104 Resp: 13677  
Ion Ratio Lower Upper  
104 100  
78 201.6 39.7 59.5#  
103 90.6 37.6 56.4#

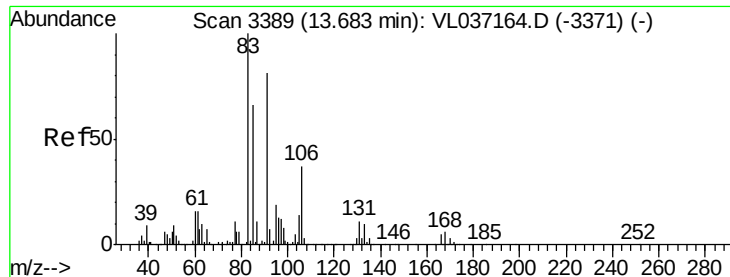


#62  
Isopropylbenzene  
Concen: 0.070 ppbv  
RT: 14.66 min Scan# 3694  
Delta R.T. -0.01 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Tgt Ion:105 Resp: 42820  
Ion Ratio Lower Upper  
105 100  
120 39.2 21.6 32.4#







#63

1,1,2,2-Tetrachloroethane

Concen: 0.848 ppbv

RT: 13.66 min Scan# 3383

Delta R.T. -0.02 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

SV2

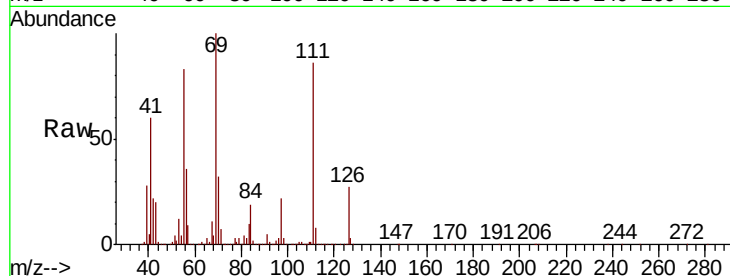
Tot Ion: 83 Resp: 241788

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

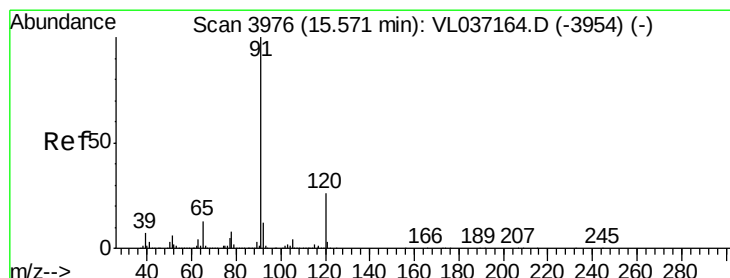
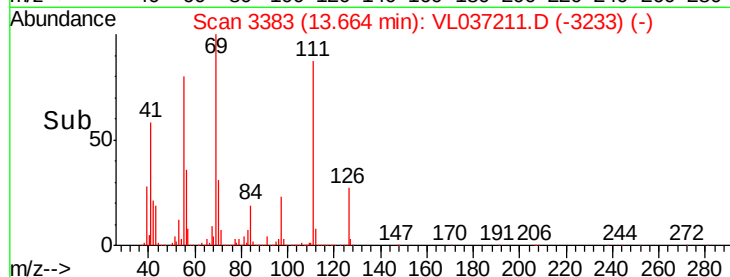
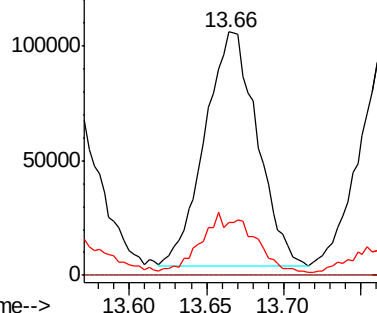
85 25.1 33.1 99.2#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.290 ppbv

RT: 15.56 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VL037211.D

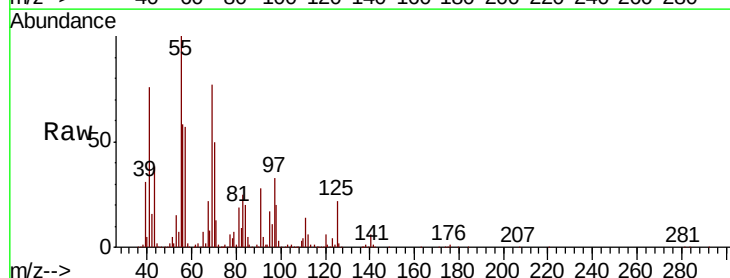
Acq: 17 Jun 2021 21:20

Tgt Ion:120 Resp: 44170

Ion Ratio Lower Upper

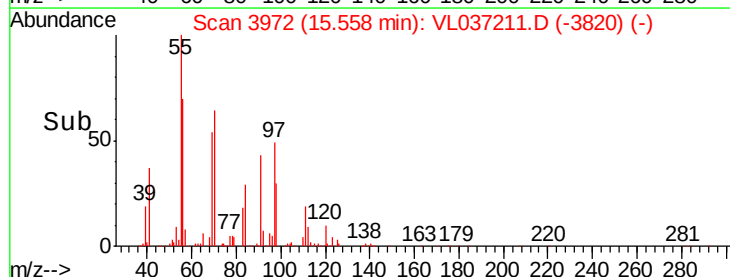
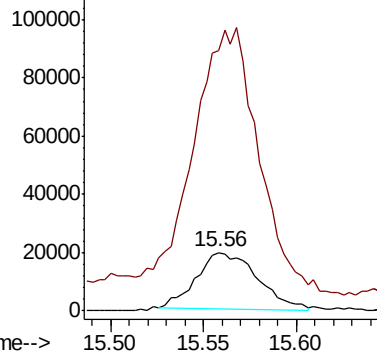
120 100

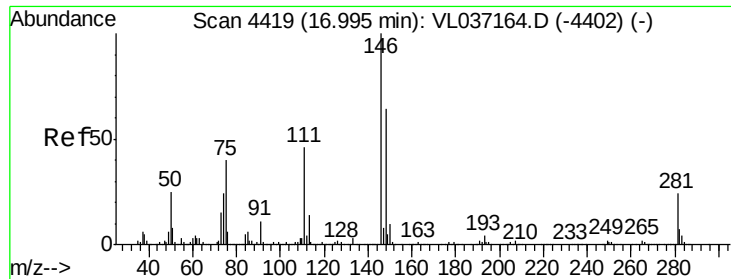
91 636.6 343.3 514.9#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

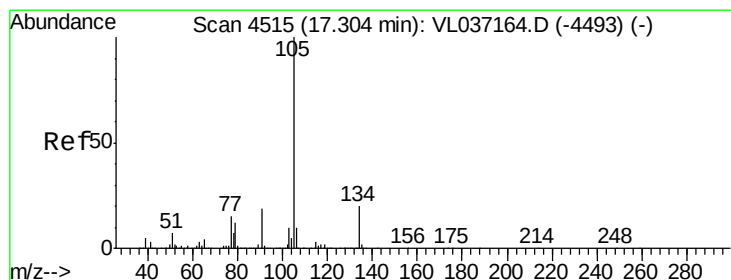
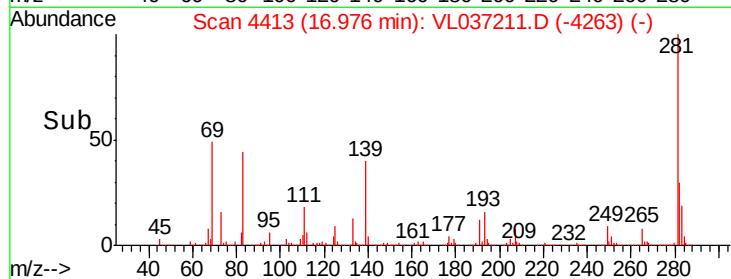
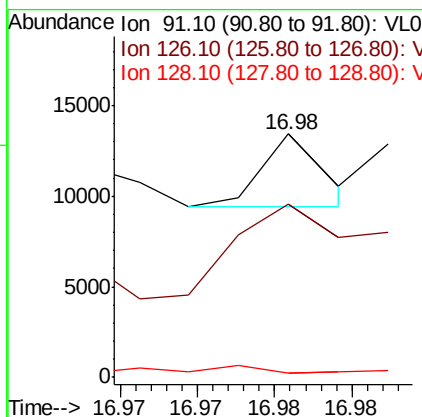
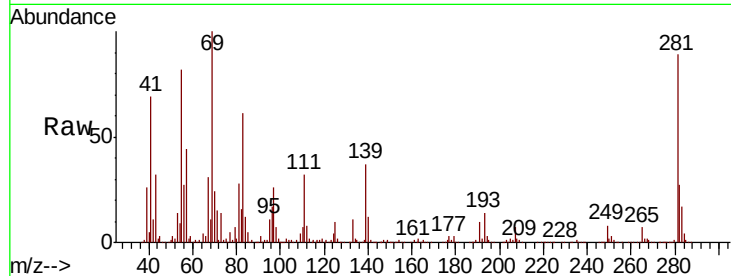




#66  
Benzyl Chloride  
Concen: 0.048 ppbv  
RT: 16.98 min Scan# 4413  
Delta R.T. -0.02 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

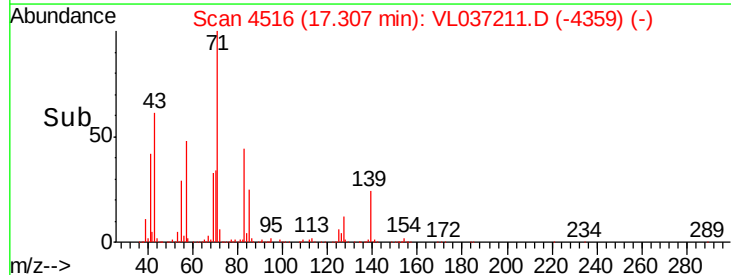
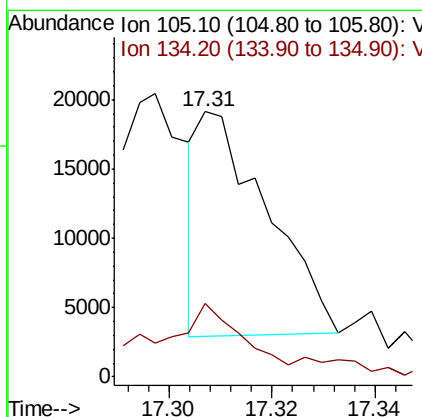
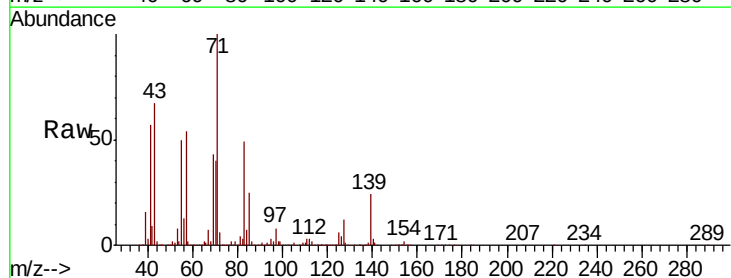
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV2

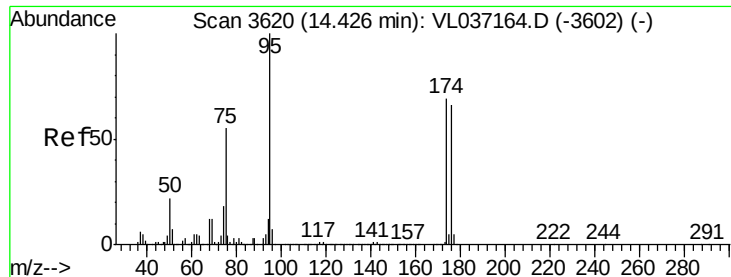
Tot Ion: 91 Resp: 1094  
Ion Ratio Lower Upper  
91 100  
126 1566.2 15.5 23.3#  
128 0.0 5.7 8.5#



#67  
sec-Butylbenzene  
Concen: 0.021 ppbv  
RT: 17.31 min Scan# 4516  
Delta R.T. 0.00 min  
Lab File: VL037211.D  
Acq: 17 Jun 2021 21:20

Tgt Ion: 105 Resp: 14844  
Ion Ratio Lower Upper  
105 100  
134 64.5 15.8 23.6#

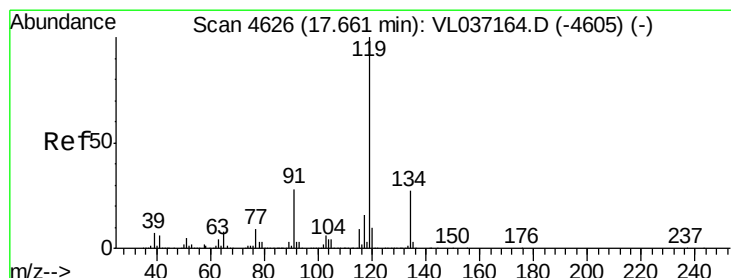
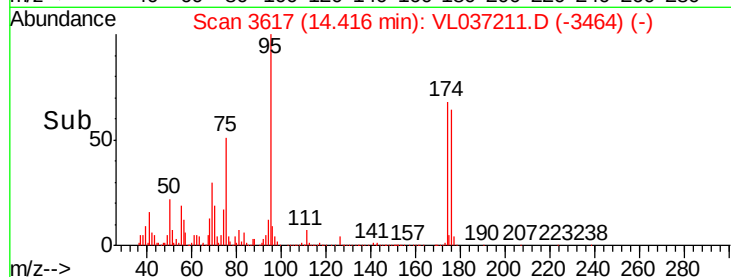
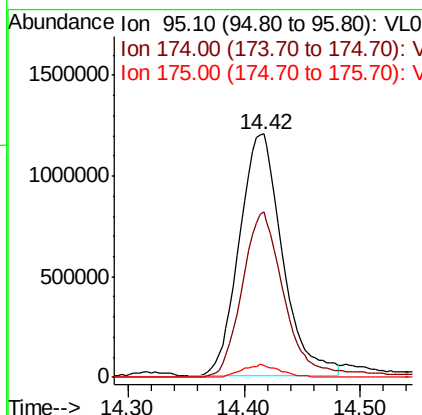
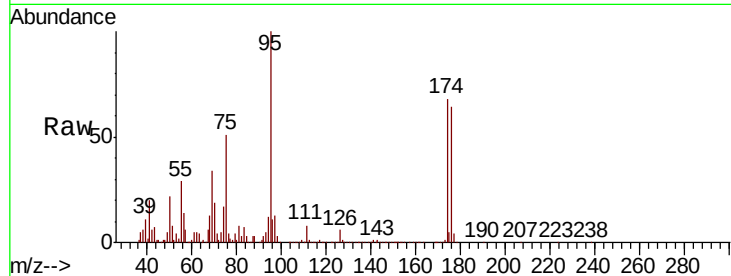




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.694 ppbv  
 RT: 14.42 min Scan# 3617  
 Delta R.T. -0.01 min  
 Lab File: VL037211.D  
 Acq: 17 Jun 2021 21:20

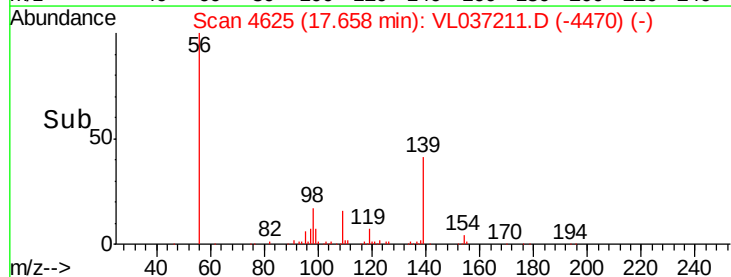
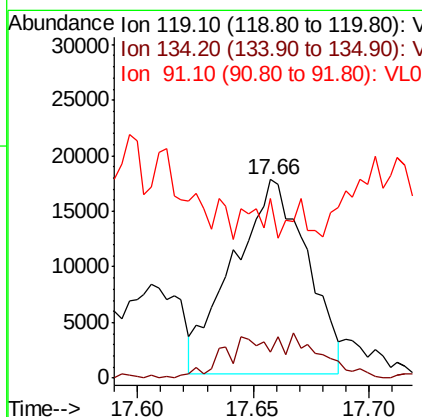
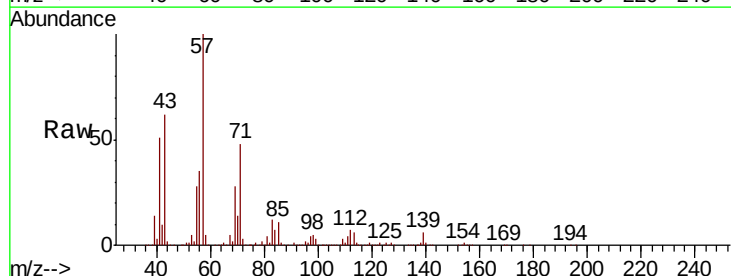
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV2

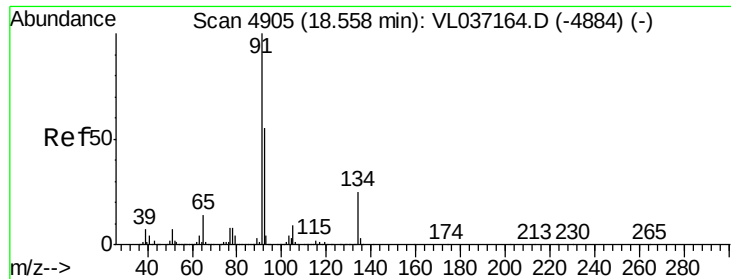
Tot Ion: 95 Resp: 3123451  
 Ion Ratio Lower Upper  
 95 100  
 174 69.6 57.0 85.4  
 175 4.8 4.4 6.6



#69  
 p-Isopropyltoluene  
 Concen: 0.064 ppbv  
 RT: 17.66 min Scan# 4625  
 Delta R.T. -0.00 min  
 Lab File: VL037211.D  
 Acq: 17 Jun 2021 21:20

Tgt Ion: 119 Resp: 38864  
 Ion Ratio Lower Upper  
 119 100  
 134 26.8 20.9 31.3  
 91 0.0 22.6 34.0#





#70

n-Butylbenzene

Concen: 0.951 ppbv

RT: 18.59 min Scan# 4915

Delta R.T. 0.03 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

SV2

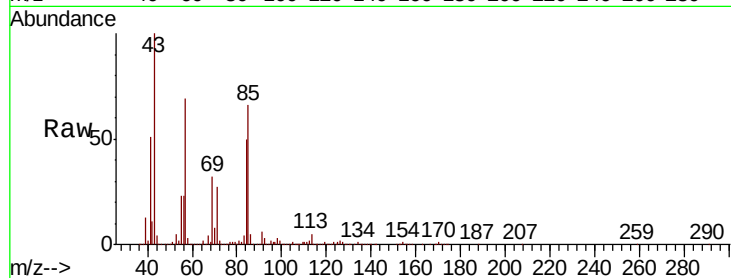
Tot Ion: 91 Resp: 535408

Ion Ratio Lower Upper

91 100

92 51.9 44.0 66.0

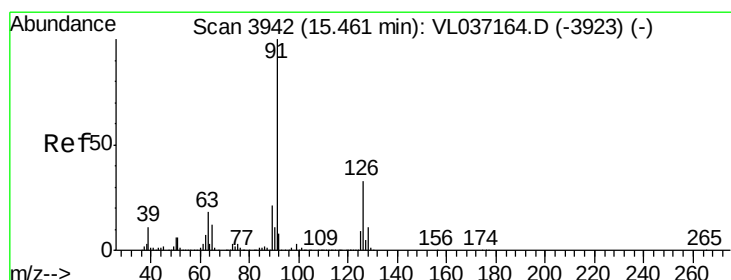
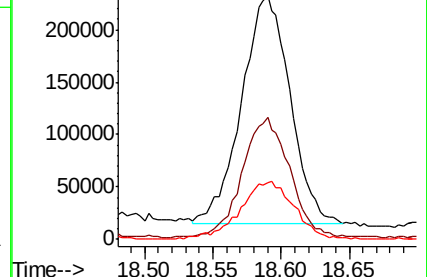
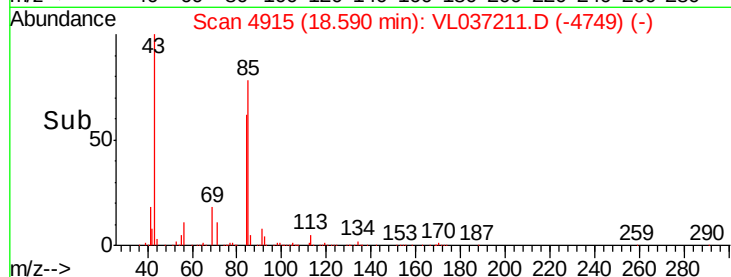
134 28.7 20.2 30.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V



#71

2-Chlorotoluene

Concen: 0.554 ppbv

RT: 15.57 min Scan# 3975

Delta R.T. 0.11 min

Lab File: VL037211.D

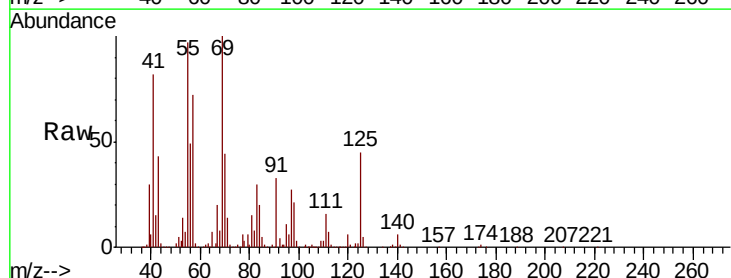
Acq: 17 Jun 2021 21:20

Tgt Ion: 91 Resp: 235813

Ion Ratio Lower Upper

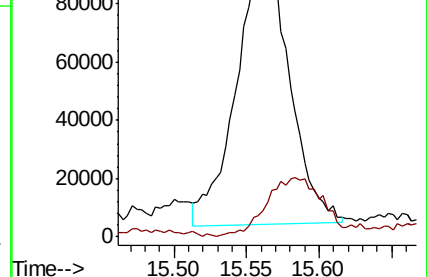
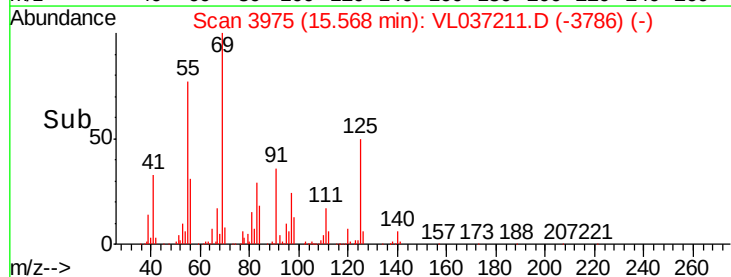
91 100

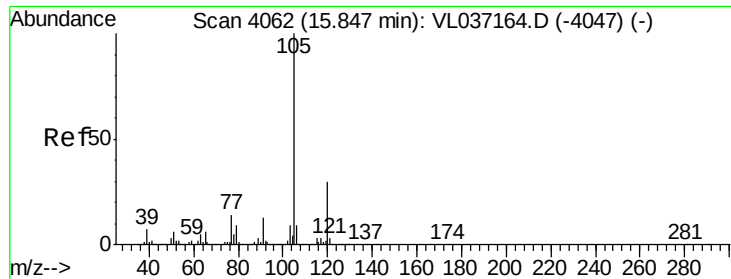
126 24.2 13.5 54.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.460 ppbv

RT: 15.84 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

SV2

Tot Ion:105 Resp: 223644

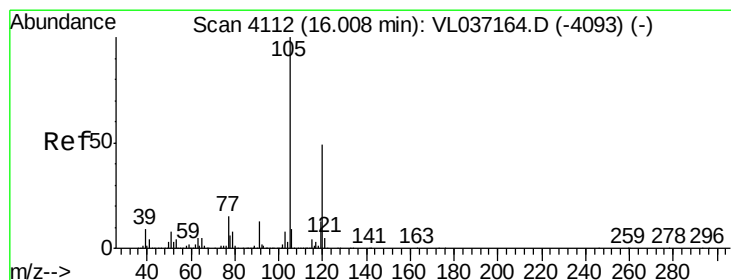
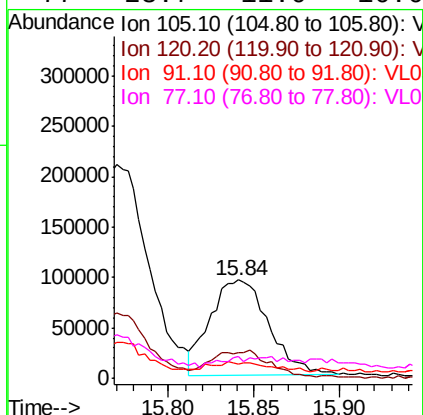
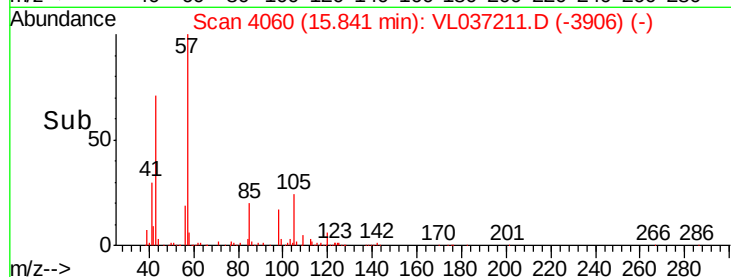
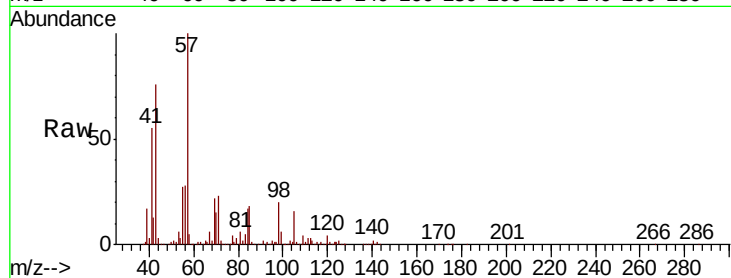
Ion Ratio Lower Upper

105 100

120 31.4 24.7 37.1

91 16.9 10.2 15.4#

77 23.7 11.0 16.6#



#73

1,3,5-Trimethylbenzene

Concen: 0.473 ppbv

RT: 16.00 min Scan# 4109

Delta R.T. -0.01 min

Lab File: VL037211.D

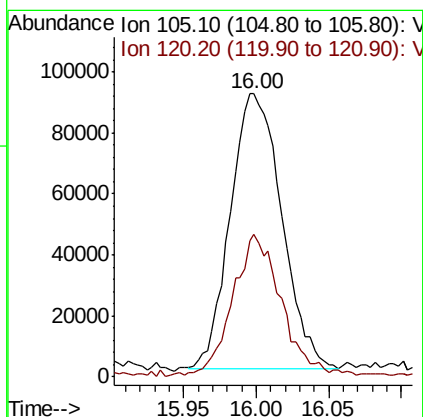
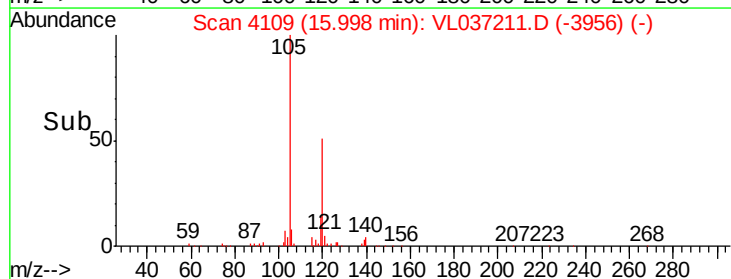
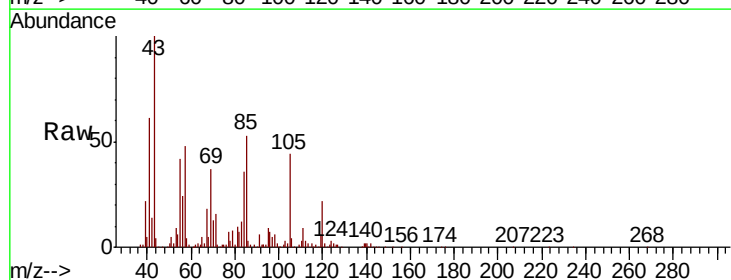
Acq: 17 Jun 2021 21:20

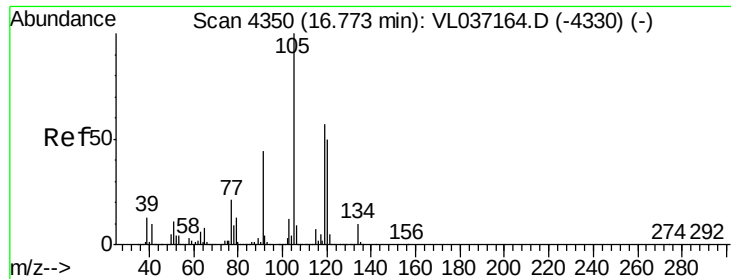
Tgt Ion:105 Resp: 222426

Ion Ratio Lower Upper

105 100

120 50.5 39.4 59.2





#74

1,2,4-Trimethylbenzene

Concen: 1.691 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. -0.01 min

Lab File: VL037211.D

Acq: 17 Jun 2021 21:20

Instrument :

MSVOA\_L

ClientSampleId :

SV2

Tot Ion:105 Resp: 819266

Ion Ratio Lower Upper

105 100

120 44.3 39.8 59.8

91 11.9 37.0 55.4#

77 13.1 17.0 25.4#

