

Data File : VL035098.D  
Acq On : 19 Jun 2020 17:13  
Operator : SY/AP  
Sample : VSTDICCC001  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

Quant Time: Jun 20 01:19:15 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL061920AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun 20 01:15:38 2020  
QLast Update : Sat Jun 20 01:15:38 2020  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1347102  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3157909  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 2998042  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 2525424  | 10.45    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.50% |

#### Target Compounds

|                                |      |     |        |       |        | Qvalue |
|--------------------------------|------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.00 | 85  | 212441 | 1.096 | ppbv   | 95     |
| 3) Chlorodifluoromethane       | 2.94 | 51  | 159498 | 1.034 | ppbv   | 99     |
| 4) Chloromethane               | 3.09 | 50  | 88537  | 1.003 | ppbv   | 100    |
| 5) Vinyl Chloride              | 3.21 | 62  | 84160  | 0.979 | ppbv   | 91     |
| 6) Bromomethane                | 3.43 | 94  | 50777  | 0.987 | ppbv   | 95     |
| 7) Chloroethane                | 3.52 | 64  | 30935  | 1.003 | ppbv   | 93     |
| 8) Dichlorotetrafluoroethane   | 3.14 | 85  | 209944 | 1.057 | ppbv   | 97     |
| 9) Propene                     | 2.96 | 41  | 59531  | 0.901 | ppbv   | 98     |
| 10) Heptane                    | 8.12 | 43  | 157535 | 0.951 | ppbv   | 94     |
| 11) Trichlorofluoromethane     | 3.91 | 101 | 215157 | 1.092 | ppbv   | 86     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.45 | 101 | 143548 | 1.025 | ppbv   | 99     |
| 13) Ethanol                    | 3.57 | 45  | 17749  | 0.831 | ppbv # | 51     |
| 14) Bromoethene                | 3.70 | 108 | 60867  | 1.050 | ppbv   | 98     |
| 15) Acetone                    | 3.82 | 43  | 185457 | 1.043 | ppbv   | 96     |
| 16) 1,3-Butadiene              | 3.28 | 39  | 46398  | 0.606 | ppbv # | 43     |
| 17) tert-Butyl alcohol         | 4.26 | 59  | 157298 | 0.997 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.26 | 96  | 67094  | 1.103 | ppbv   | 95     |
| 19) Isopropyl Alcohol          | 3.93 | 45  | 46211  | 0.395 | ppbv # | 93     |
| 20) Methylene Chloride         | 4.31 | 84  | 78344  | 1.332 | ppbv # | 93     |
| 21) Allyl Chloride             | 4.38 | 41  | 96305  | 0.962 | ppbv   | 93     |
| 22) trans-1,2-Dichloroethene   | 4.86 | 96  | 58777  | 0.986 | ppbv   | 96     |
| 23) Vinyl Acetate              | 5.05 | 43  | 198413 | 0.890 | ppbv # | 97     |
| 24) 1,1-Dichloroethane         | 4.99 | 63  | 177333 | 1.020 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.66 | 43  | 311823 | 1.045 | ppbv   | 99     |
| 26) Hexane                     | 5.66 | 57  | 144483 | 1.116 | ppbv   | 97     |
| 27) Carbon Disulfide           | 4.52 | 76  | 133538 | 0.884 | ppbv   | 96     |
| 28) Methyl tert-Butyl Ether    | 5.01 | 73  | 195802 | 0.996 | ppbv   | 100    |
| 29) Chloroform                 | 5.74 | 83  | 220400 | 1.037 | ppbv   | 99     |
| 30) Cyclohexane                | 7.12 | 84  | 92140  | 0.917 | ppbv   | 96     |
| 31) cis-1,2-Dichloroethene     | 5.53 | 61  | 123190 | 0.971 | ppbv   | 89     |
| 32) 1,1,1-Trichloroethane      | 6.50 | 97  | 193399 | 1.007 | ppbv   | 98     |
| 34) 2-Butanone                 | 5.22 | 43  | 190683 | 0.978 | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.01 | 117 | 186674 | 0.938 | ppbv   | 96     |
| 36) Benzene                    | 6.88 | 78  | 251428 | 0.967 | ppbv   | 95     |
| 37) 1,2-Dichloroethane         | 6.29 | 62  | 166639 | 1.037 | ppbv   | 99     |
| 38) Trichloroethene            | 7.83 | 130 | 54821  | 0.542 | ppbv   | 93     |
| 39) 1,2-Dichloropropane        | 7.61 | 63  | 47815  | 0.459 | ppbv   | 90     |
| 40) 1,4-Dioxane                | 7.84 | 88  | 8020   | 0.193 | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.04 | 42  | 47269  | 0.462 | ppbv # | 40     |
| 42) Bromodichloromethane       | 7.79 | 83  | 197207 | 0.910 | ppbv   | 96     |
| 43) Methyl Methacrylate        | 8.02 | 69  | 102691 | 0.936 | ppbv   | 98     |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Sat Jun 20 01:15:38 2020  
QLast Update : Sat Jun 20 01:15:38 2020  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 280898   | 0.608 | ppbv # | 62       |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 48236    | 0.438 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 113659   | 0.839 | ppbv # | 89       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 67300    | 0.610 | ppbv   | 92       |
| 48) Dibromochloromethane      | 10.32 | 129  | 152604   | 0.902 | ppbv   | 100      |
| 49) Bromoform                 | 13.07 | 173  | 125999   | 0.868 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 265545   | 0.956 | ppbv   | 98       |
| 51) 2-Hexanone                | 10.16 | 43   | 194952   | 0.899 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.24 | 164  | 57214    | 0.617 | ppbv   | 86       |
| 53) Toluene                   | 9.82  | 91   | 259278   | 0.940 | ppbv   | 96       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 163380   | 1.011 | ppbv   | 88       |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 130655   | 0.977 | ppbv # | 1        |
| 57) Chlorobenzene             | 12.17 | 112  | 135129   | 0.574 | ppbv   | 93       |
| 58) Ethyl Benzene             | 12.73 | 91   | 355579   | 0.974 | ppbv   | 97       |
| 59) m/p-Xylene                | 13.01 | 91   | 382995   | 1.190 | ppbv # | 56       |
| 60) o-Xylene                  | 13.72 | 91   | 319004   | 1.004 | ppbv   | 97       |
| 61) Styrene                   | 13.55 | 104  | 184157   | 0.918 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.69 | 105  | 489212   | 1.033 | ppbv   | 96       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 252293   | 1.004 | ppbv   | 100      |
| 64) n-propylbenzene           | 15.59 | 120  | 117113   | 0.962 | ppbv   | 76       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 415307   | 1.008 | ppbv   | 96       |
| 66) Benzyl Chloride           | 17.02 | 91   | 98909    | 0.724 | ppbv # | 95       |
| 67) sec-Butylbenzene          | 17.33 | 105  | 598886   | 1.020 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 17.68 | 119  | 468680   | 0.987 | ppbv   | 98       |
| 70) n-Butylbenzene            | 18.58 | 91   | 512079   | 1.015 | ppbv   | 96       |
| 71) 2-Chlorotoluene           | 15.48 | 91   | 361459   | 1.010 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 356450   | 1.004 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 332497   | 0.966 | ppbv   | 90       |
| 74) 1,2,4-Trimethylbenzene    | 16.79 | 105  | 385476   | 1.026 | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 236781   | 1.069 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.18 | 146  | 217615   | 1.035 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 215830   | 1.040 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.42 | 225  | 119980   | 0.675 | ppbv # | 50       |
| 79) Naphthalene               | 22.26 | 128  | 312539   | 1.078 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 25.01 | 142  | 94083    | 1.289 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 21.98 | 180  | 116333   | 0.658 | ppbv # | 43       |

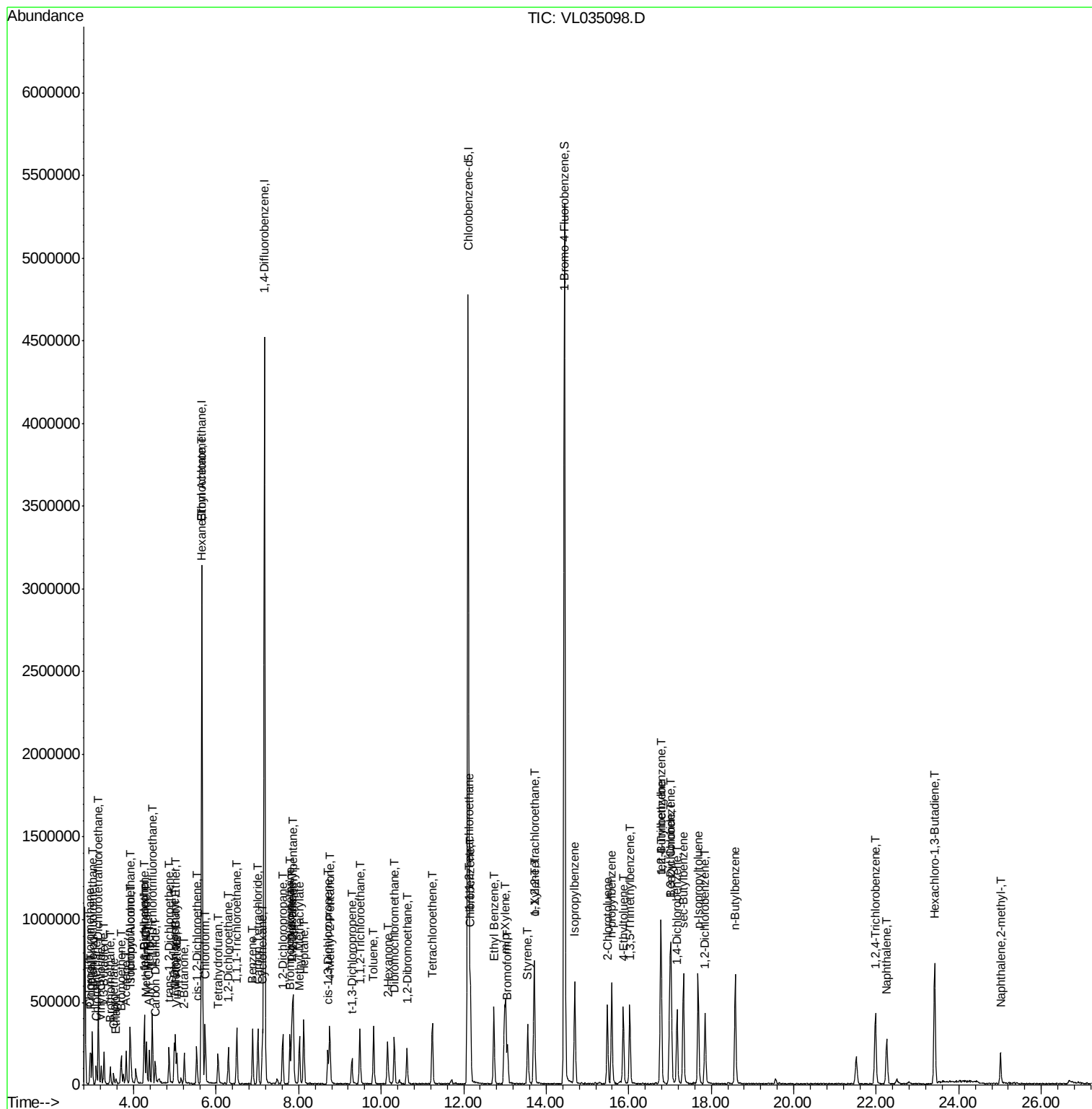
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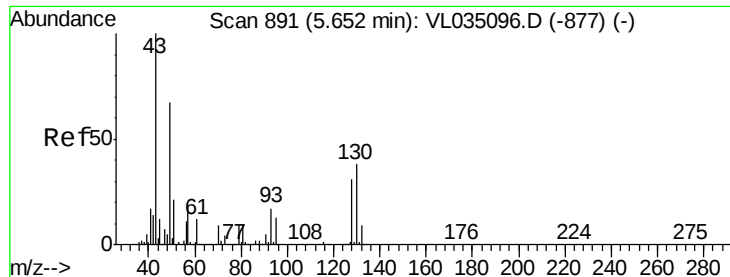
Data File : VL035098.D

```
Acq On       : 19 Jun 2020 17:13
Operator    : SY/AP
Sample      : VSTDICCC001
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ALS Vial    : 1      Sample Multipl
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MSVOA\_L  
**ClientSampleId :**  
VSTDICCC001

Quant Time: Jun 20 01:19:15 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL061920AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LSat Jun 20 01:15:38 2020  
QLast Update : Sat Jun 20 01:15:38 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

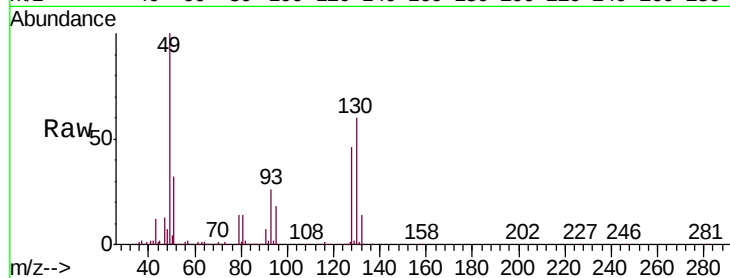
Tgt Ion: 49 Resp: 1347102

Ion Ratio Lower Upper

49 100

128 46.2 22.9 68.5

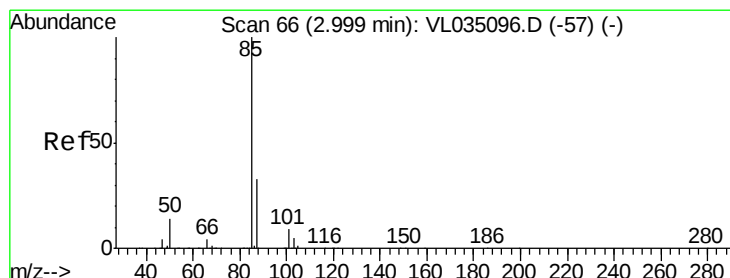
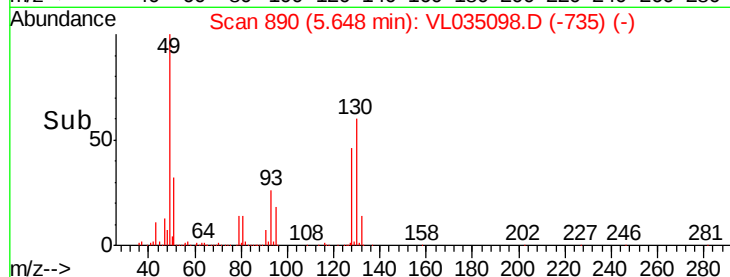
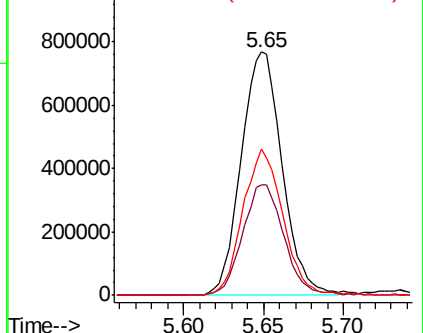
130 59.3 29.0 87.0



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: 1.096 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL035098.D

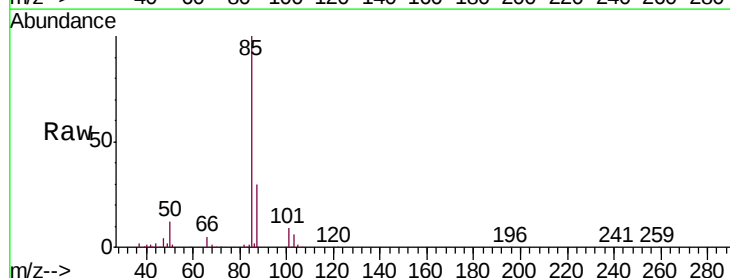
Acq: 19 Jun 2020 17:13

Tgt Ion: 85 Resp: 212441

Ion Ratio Lower Upper

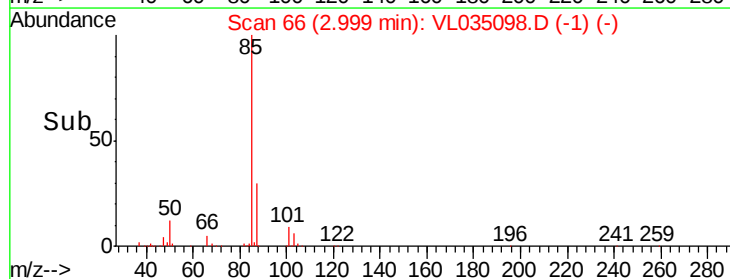
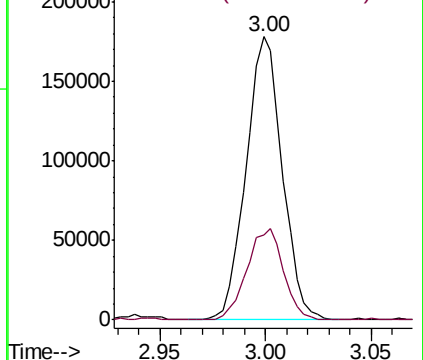
85 100

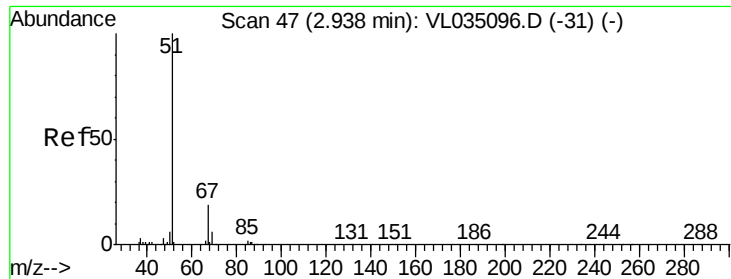
87 29.9 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

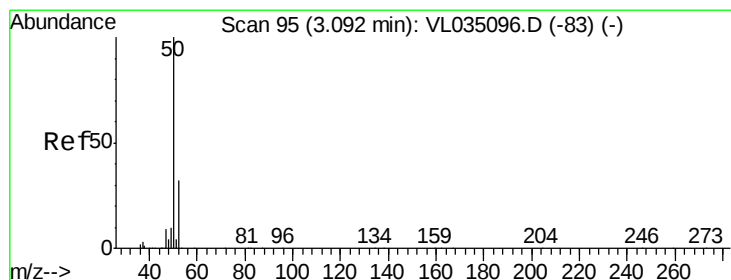
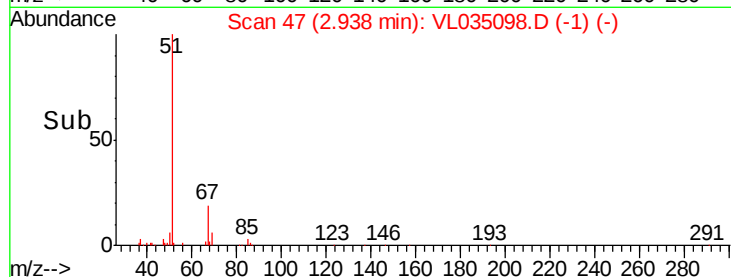
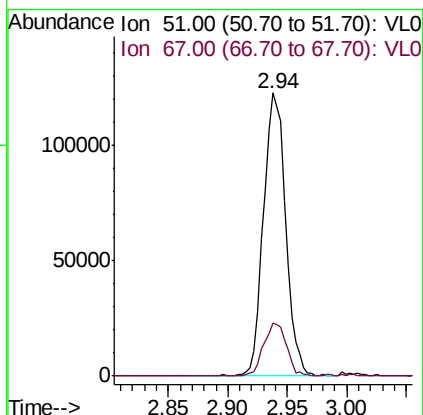
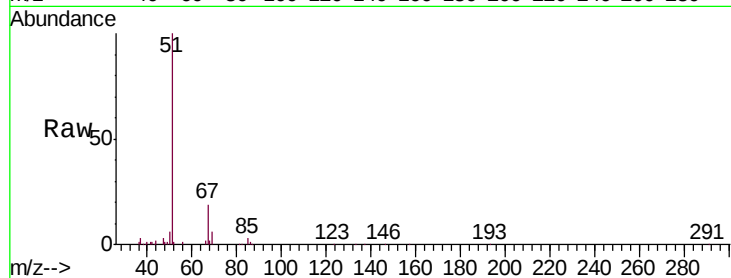




#3  
Chlorodifluoromethane  
Concen: 1.034 ppbv  
RT: 2.94 min Scan# 47  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

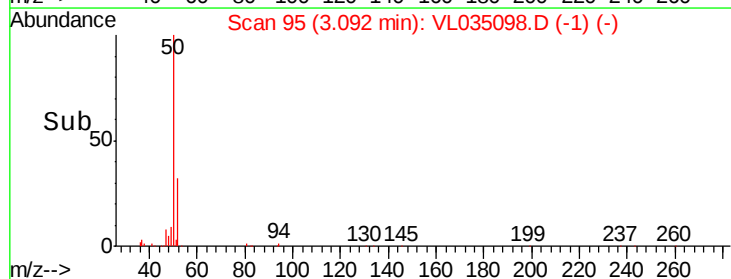
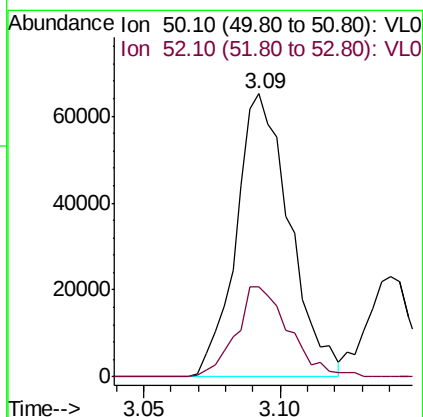
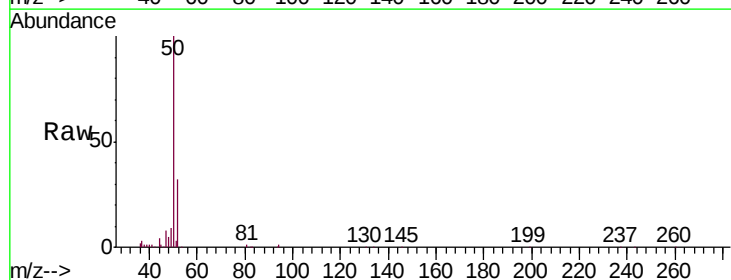
Instrument :  
MSVOA\_L  
ClientSampleId :  
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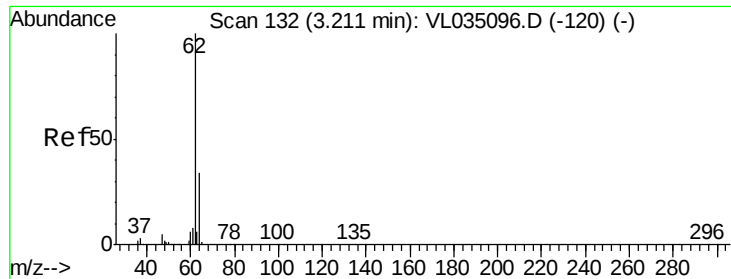
Tgt Ion: 51 Resp: 159498  
Ion Ratio Lower Upper  
51 100  
67 19.3 15.2 22.8



#4  
Chloromethane  
Concen: 1.003 ppbv  
RT: 3.09 min Scan# 95  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 50 Resp: 88537  
Ion Ratio Lower Upper  
50 100  
52 31.8 25.4 38.0





#5

Vinyl Chloride

Concen: 0.979 ppbv

RT: 3.21 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

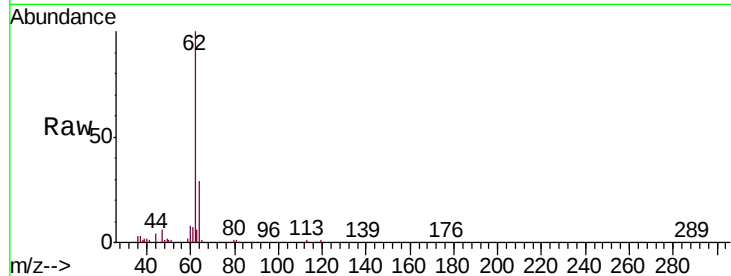
VSTDICCC001

Tgt Ion: 62 Resp: 84160

Ion Ratio Lower Upper

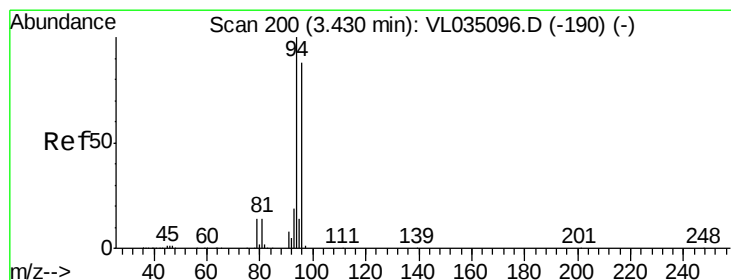
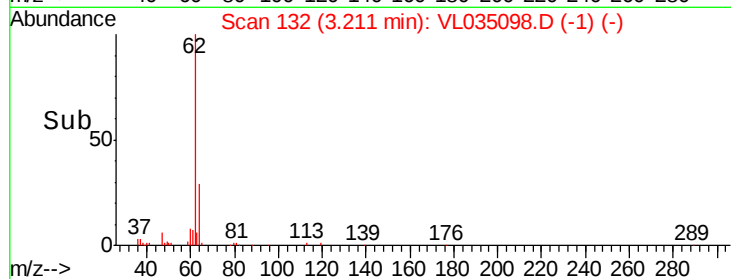
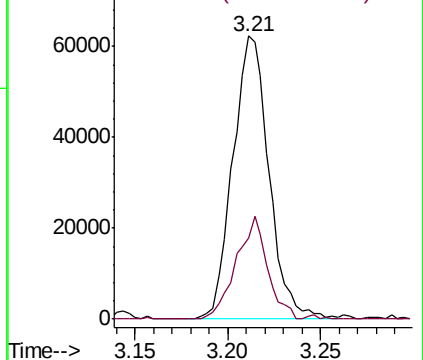
62 100

64 28.6 27.0 40.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.987 ppbv

RT: 3.43 min Scan# 201

Delta R.T. 0.00 min

Lab File: VL035098.D

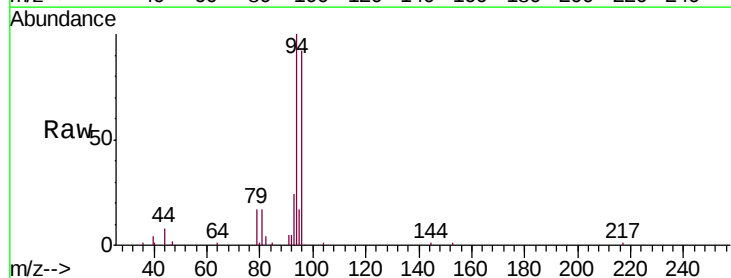
Acq: 19 Jun 2020 17:13

Tgt Ion: 94 Resp: 50777

Ion Ratio Lower Upper

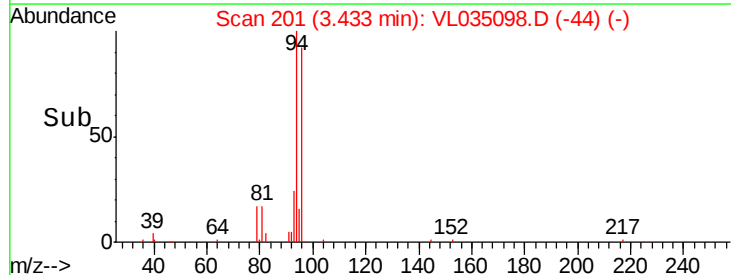
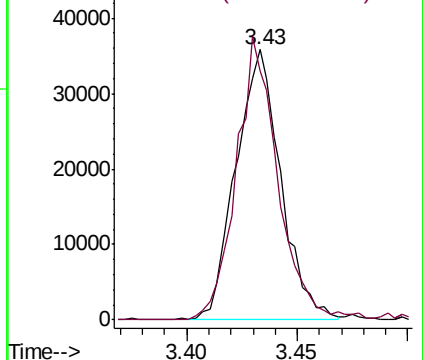
94 100

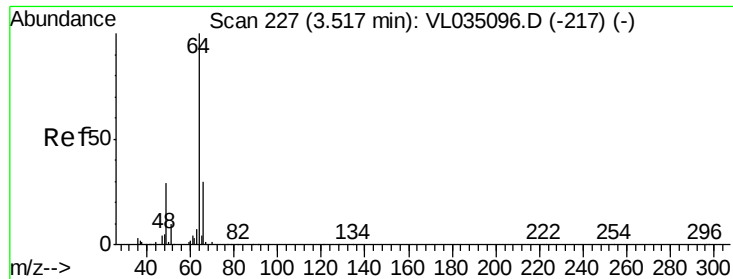
96 91.9 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 1.003 ppbv

RT: 3.52 min Scan# 227

Delta R.T. 0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

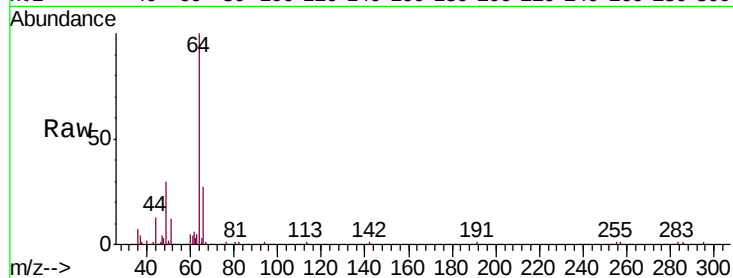
VSTDICCC001

Tgt Ion: 64 Resp: 30935

Ion Ratio Lower Upper

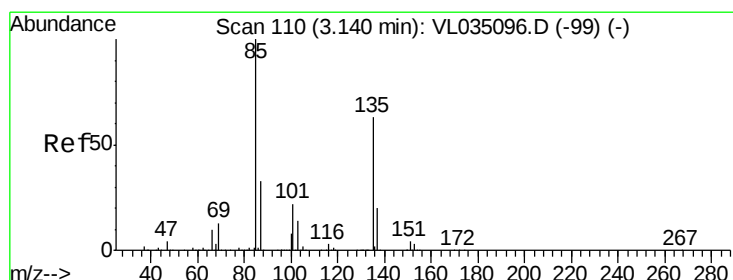
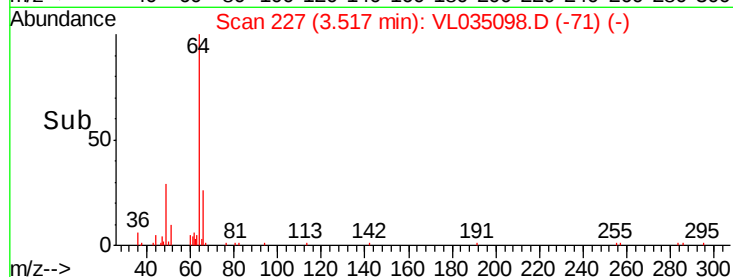
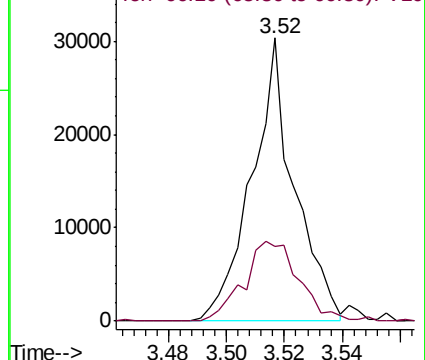
64 100

66 26.6 24.2 36.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.057 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL035098.D

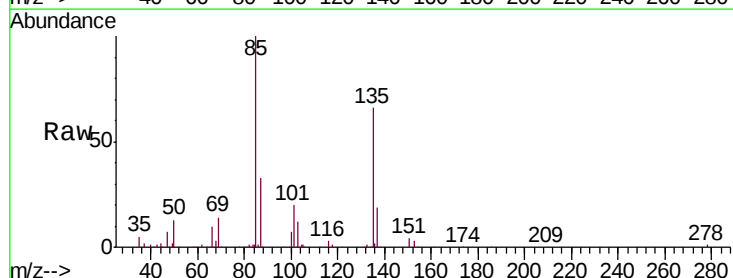
Acq: 19 Jun 2020 17:13

Tgt Ion: 85 Resp: 209944

Ion Ratio Lower Upper

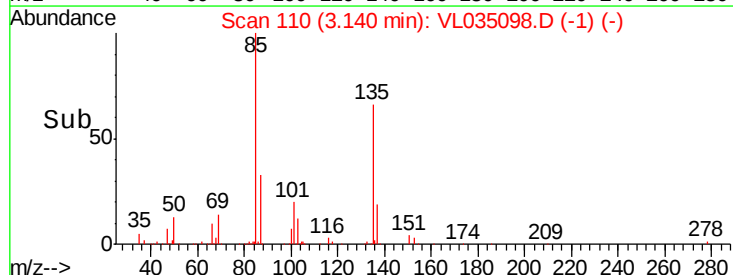
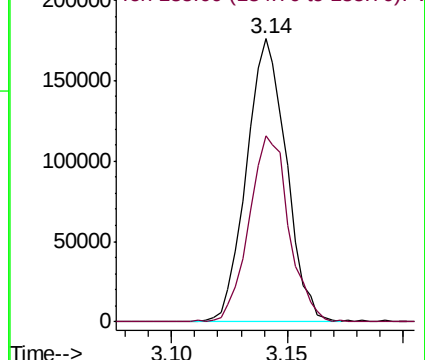
85 100

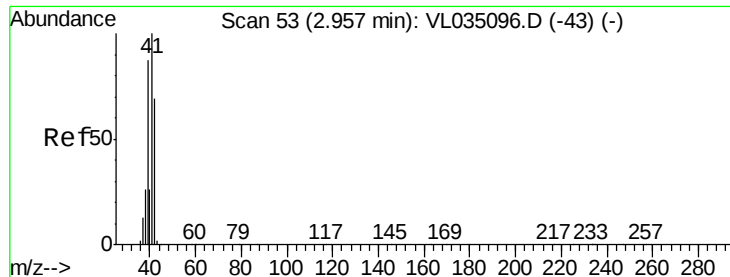
135 66.1 51.0 76.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.901 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

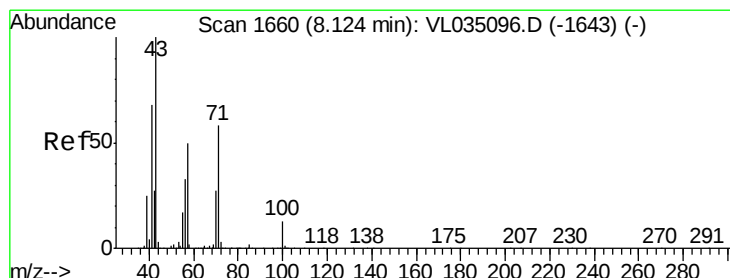
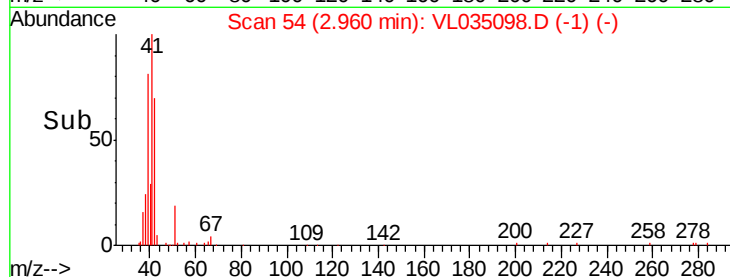
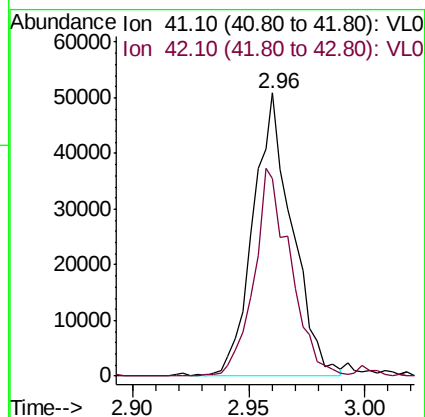
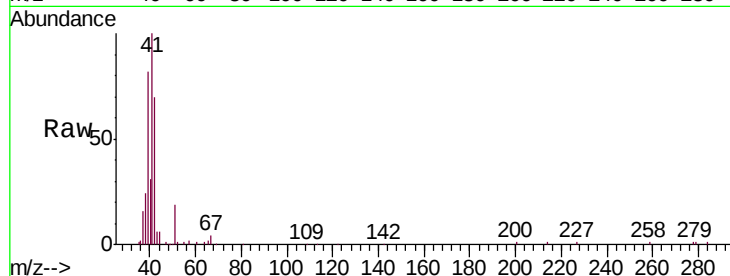
VSTDICCC001

Tgt Ion: 41 Resp: 59531

Ion Ratio Lower Upper

41 100

42 71.2 55.8 83.6



#10

Heptane

Concen: 0.951 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VL035098.D

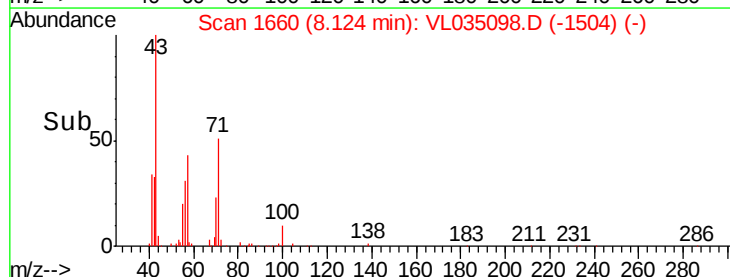
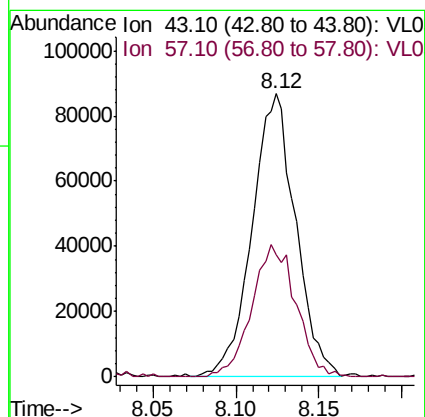
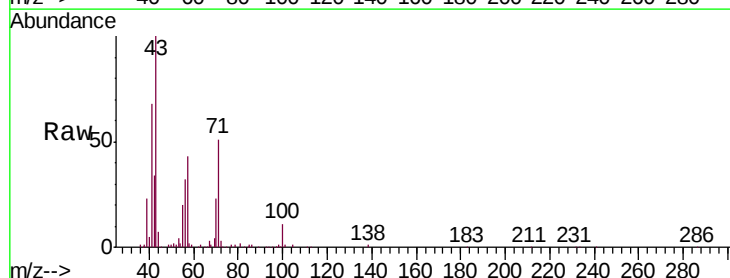
Acq: 19 Jun 2020 17:13

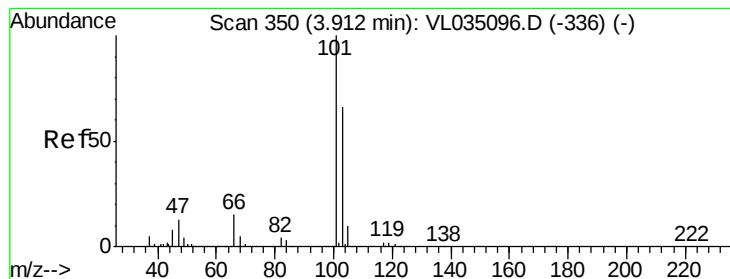
Tgt Ion: 43 Resp: 157535

Ion Ratio Lower Upper

43 100

57 47.8 41.9 62.9





#11

Trichlorofluoromethane

Concen: 1.092 ppbv

RT: 3.91 min Scan# 350

Delta R.T. 0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

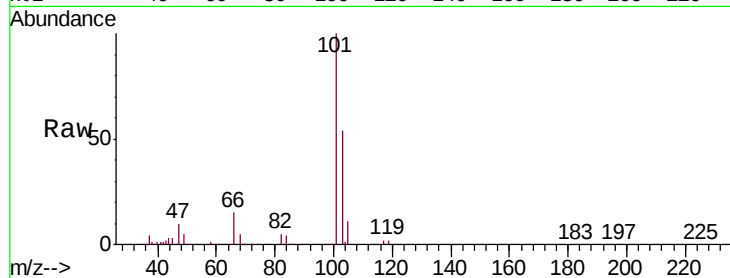
VSTDICCC001

Tgt Ion:101 Resp: 215157

Ion Ratio Lower Upper

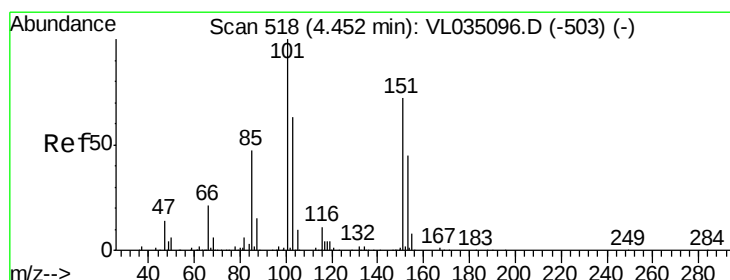
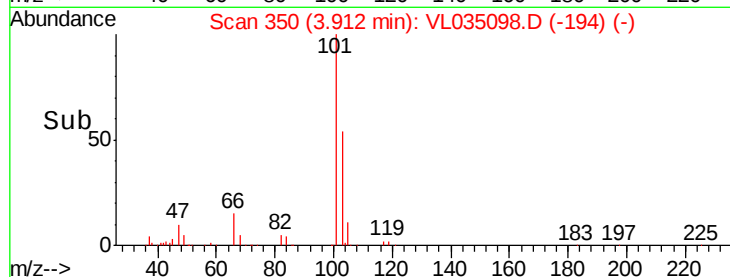
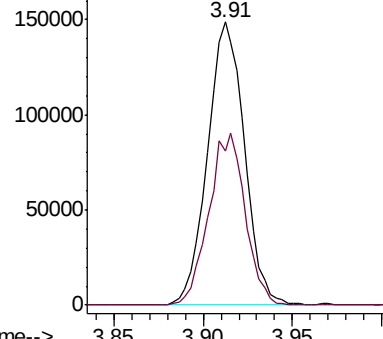
101 100

103 54.5 52.6 79.0



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: 1.025 ppbv

RT: 4.45 min Scan# 518

Delta R.T. 0.00 min

Lab File: VL035098.D

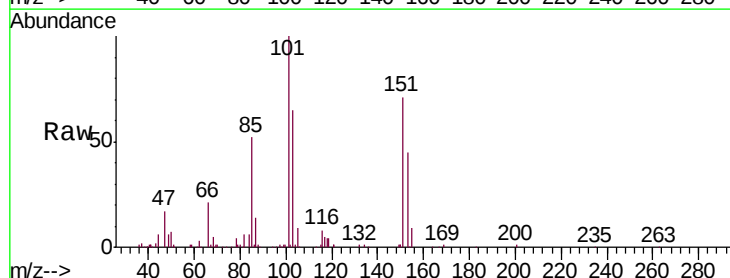
Acq: 19 Jun 2020 17:13

Tgt Ion:101 Resp: 143548

Ion Ratio Lower Upper

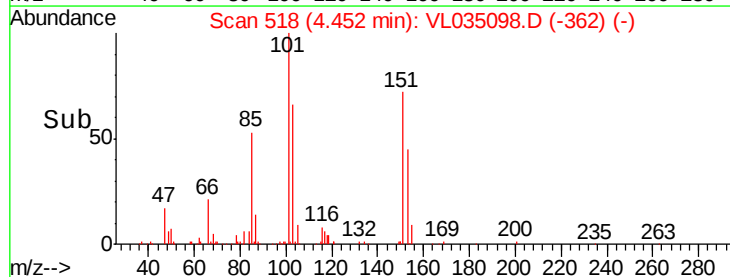
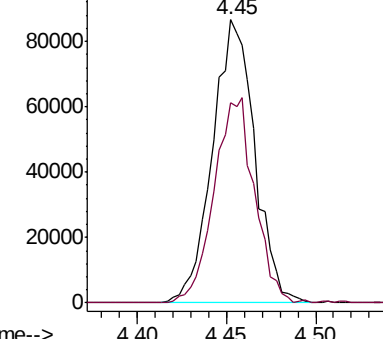
101 100

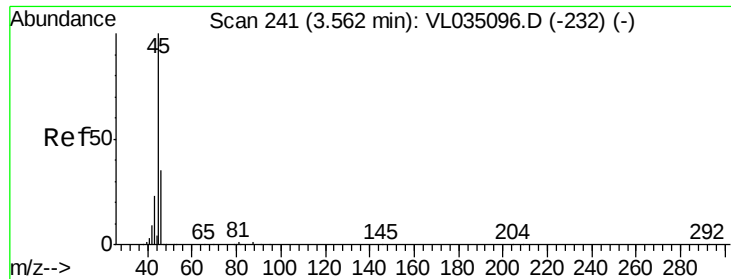
151 69.7 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

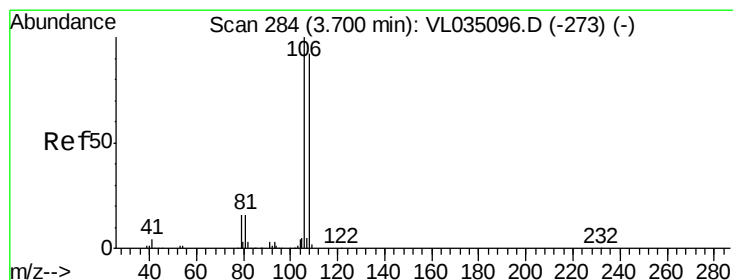
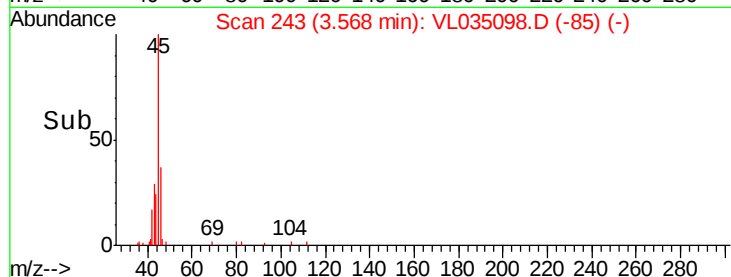
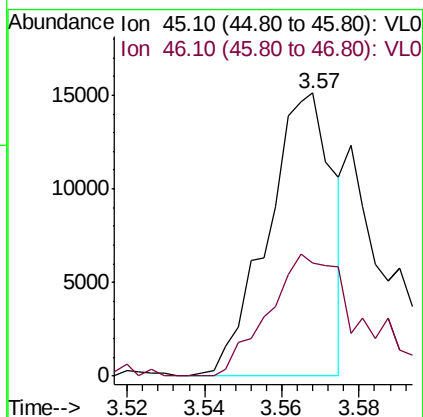
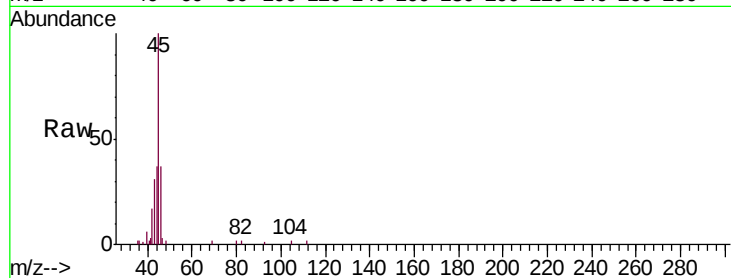




#13  
Ethanol  
Concen: 0.831 ppbv  
RT: 3.57 min Scan# 243  
Delta R.T. 0.01 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

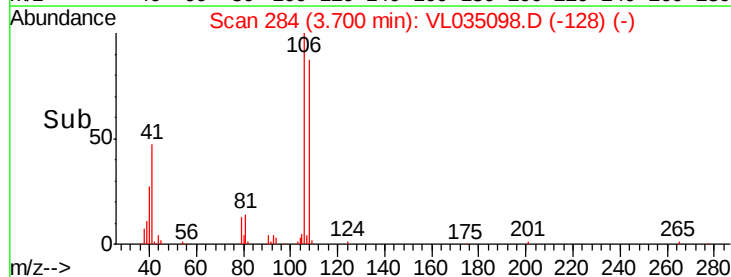
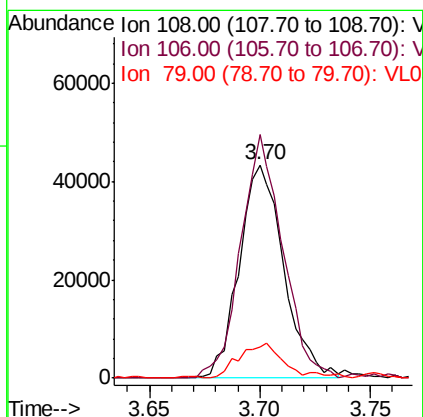
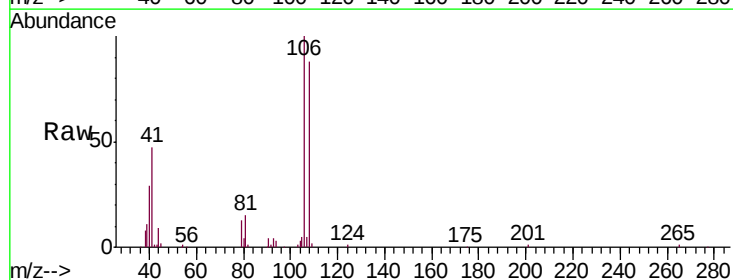
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

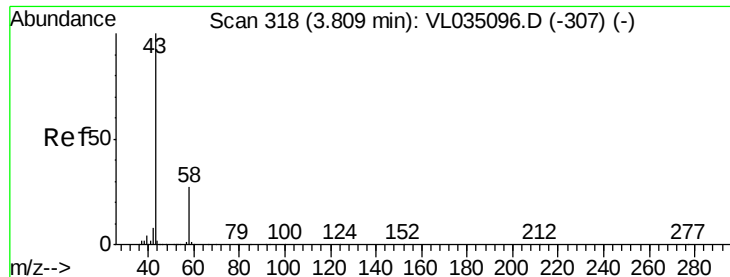
Tgt Ion: 45 Resp: 17749  
Ion Ratio Lower Upper  
45 100  
46 64.0 14.2 57.0#



#14  
Bromoethene  
Concen: 1.050 ppbv  
RT: 3.70 min Scan# 284  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 108 Resp: 60867  
Ion Ratio Lower Upper  
108 100  
106 107.8 84.4 126.6  
79 17.3 14.2 21.2





#15

Acetone

Concen: 1.043 ppbv

RT: 3.82 min Scan# 321

Delta R.T. 0.01 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

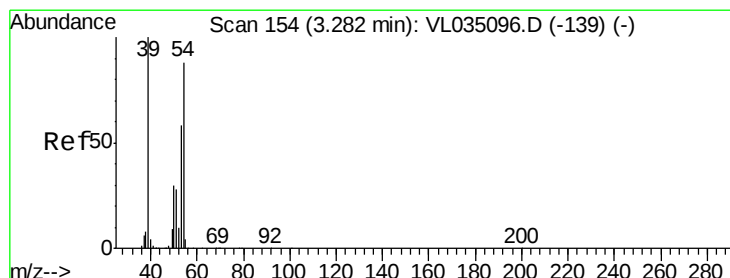
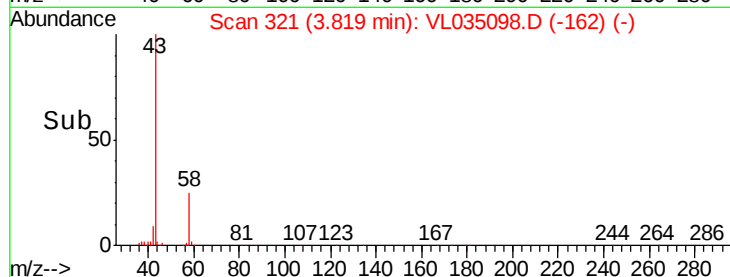
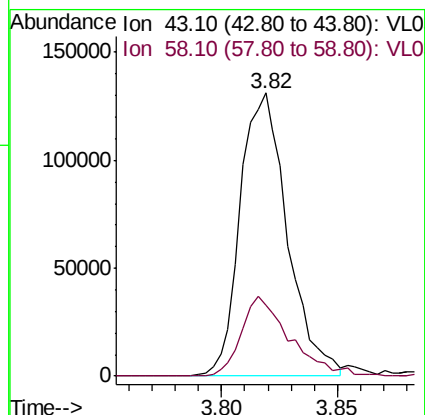
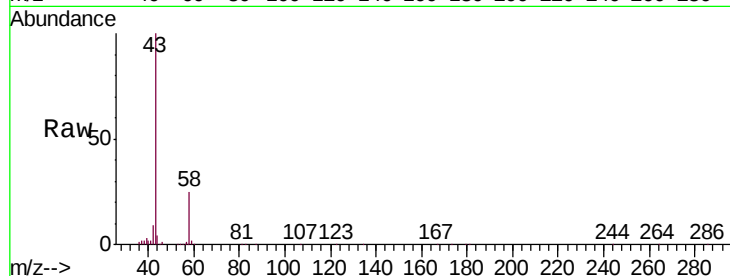
VSTDICCC001

Tgt Ion: 43 Resp: 185457

Ion Ratio Lower Upper

43 100

58 29.1 21.8 32.6



#16

1,3-Butadiene

Concen: 0.606 ppbv

RT: 3.28 min Scan# 154

Delta R.T. 0.00 min

Lab File: VL035098.D

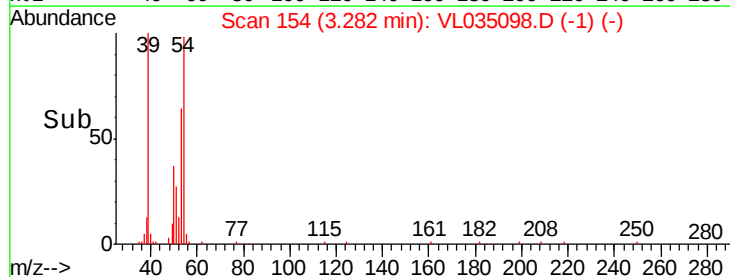
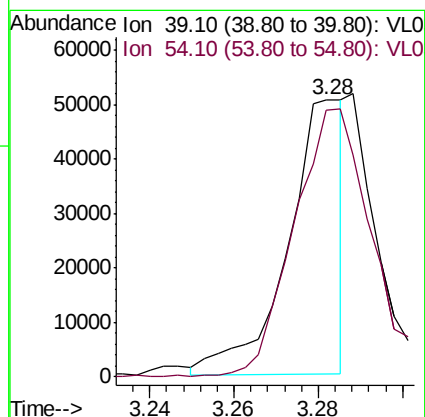
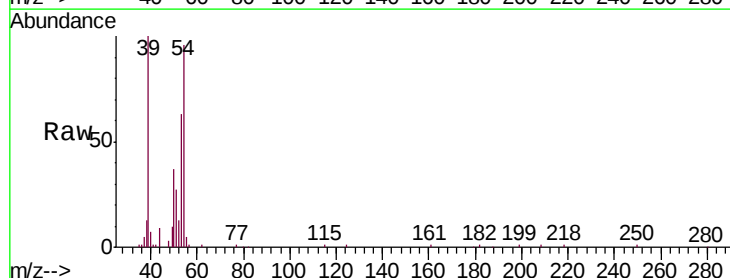
Acq: 19 Jun 2020 17:13

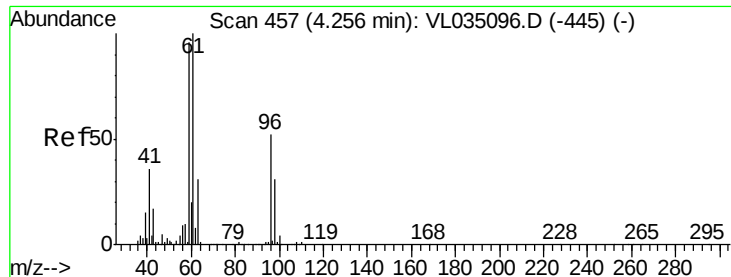
Tgt Ion: 39 Resp: 46398

Ion Ratio Lower Upper

39 100

54 135.4 67.0 100.4#



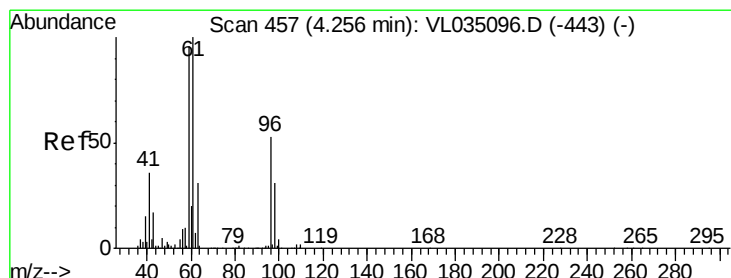
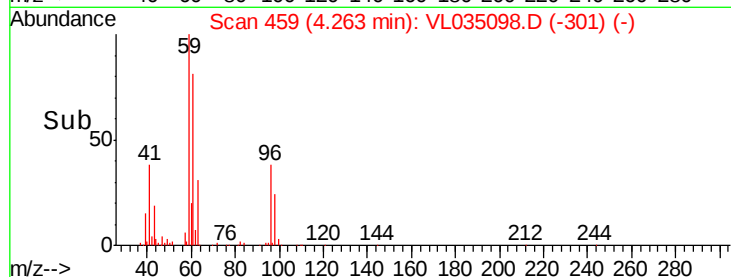
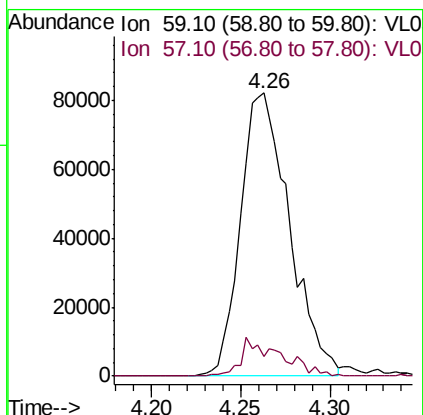
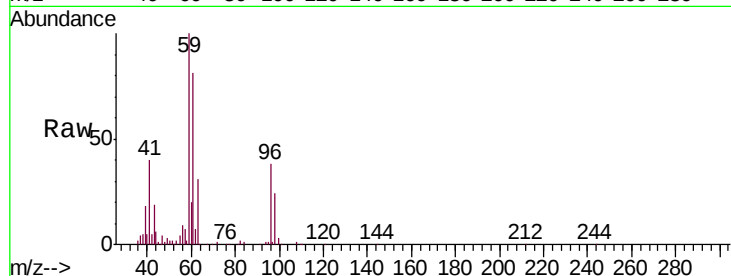


#17

tert-Butyl alcohol  
Concen: 0.997 ppbv  
RT: 4.26 min Scan# 459  
Delta R.T. 0.01 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

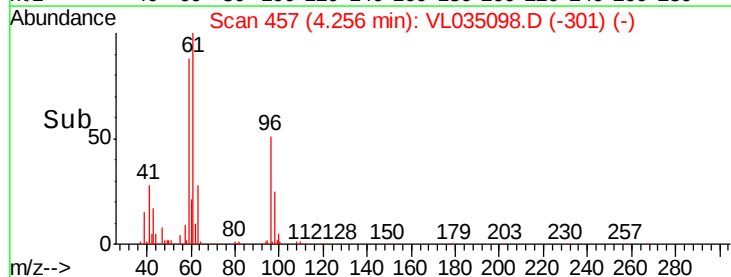
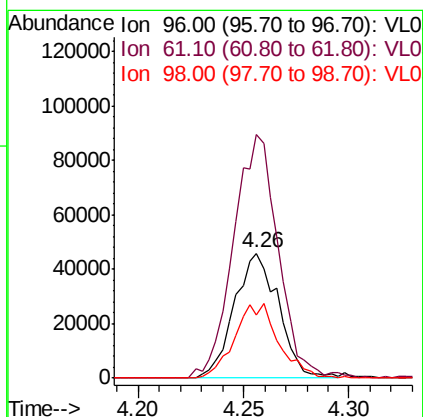
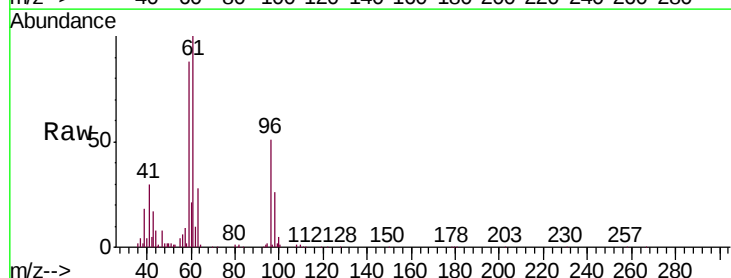
Tgt Ion: 59 Resp: 157298  
Ion Ratio Lower Upper  
59 100  
57 11.0 8.6 12.8

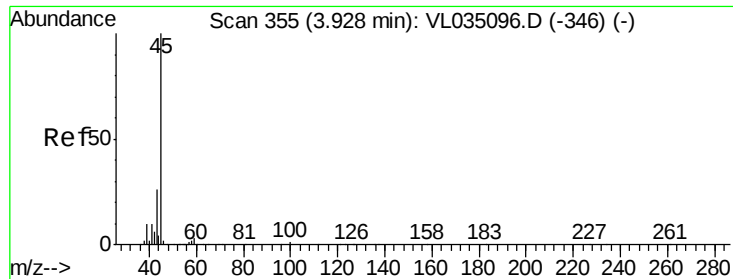


#18

1,1-Dichloroethene  
Concen: 1.103 ppbv  
RT: 4.26 min Scan# 457  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 96 Resp: 67094  
Ion Ratio Lower Upper  
96 100  
61 194.5 152.2 228.4  
98 50.2 47.7 71.5





#19

Isopropyl Alcohol

Concen: 0.395 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

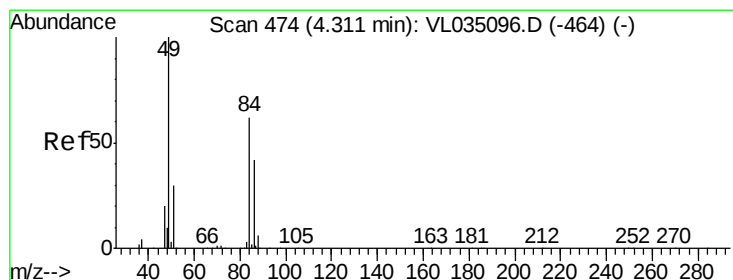
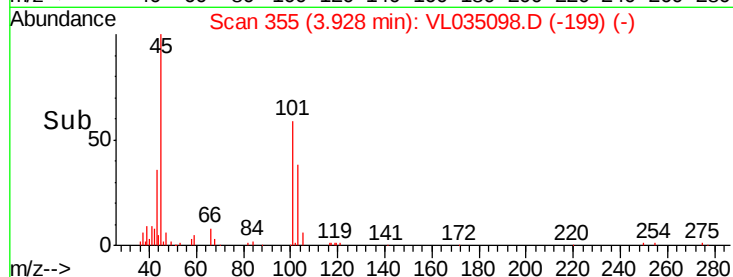
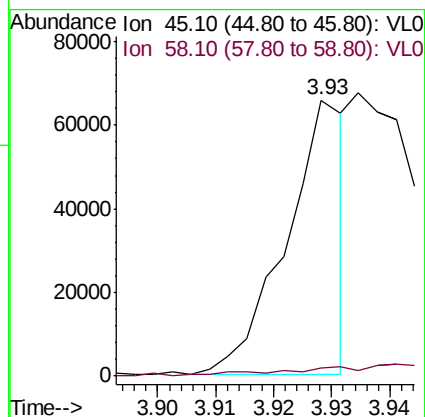
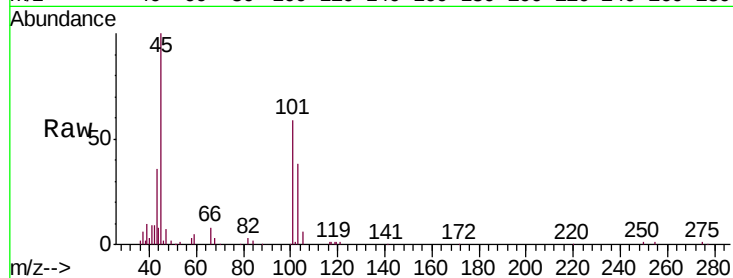
VSTDICCC001

Tgt Ion: 45 Resp: 46211

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 1.332 ppbv

RT: 4.31 min Scan# 474

Delta R.T. 0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Tgt Ion: 84 Resp: 78344

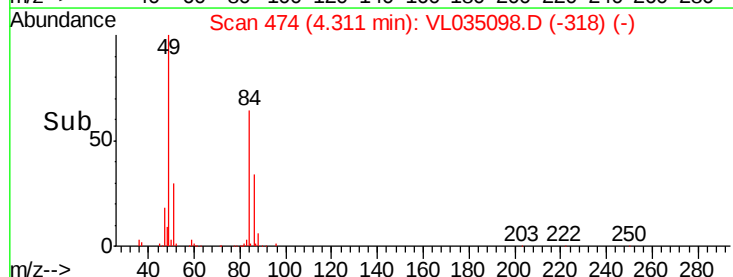
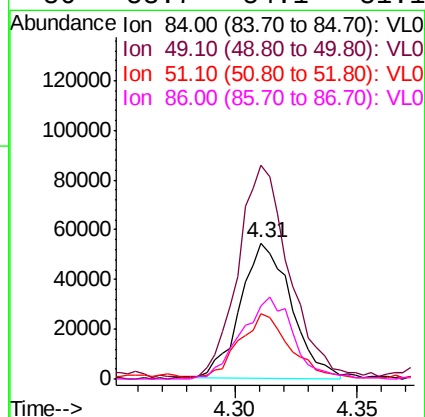
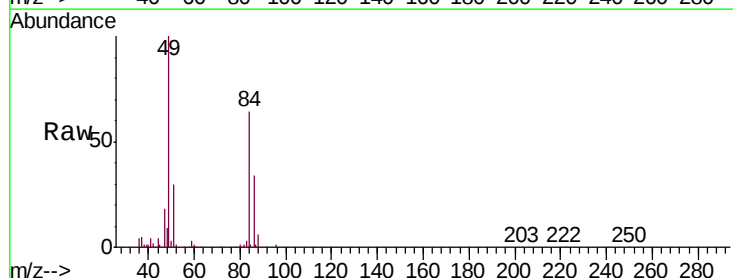
Ion Ratio Lower Upper

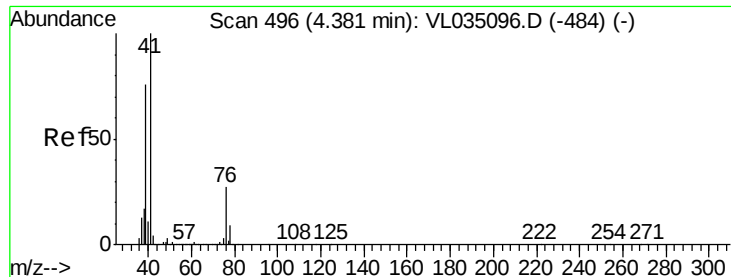
84 100

49 156.6 128.8 193.2

51 46.9 38.7 58.1

86 53.7 54.1 81.1#

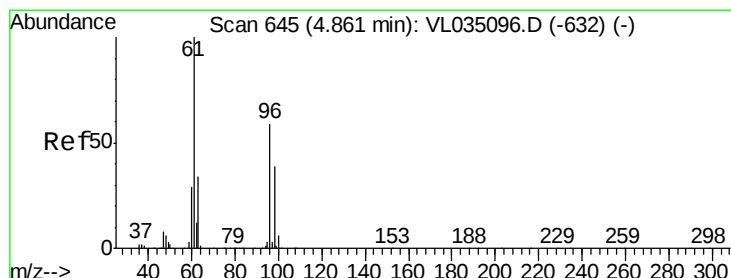
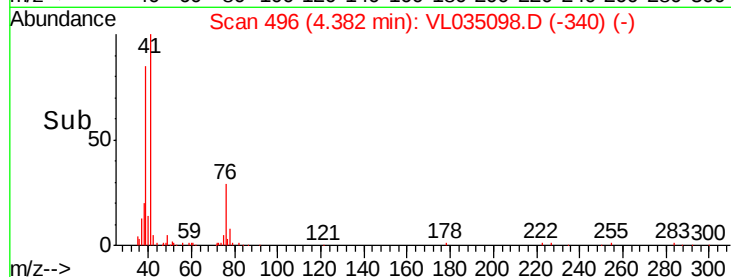
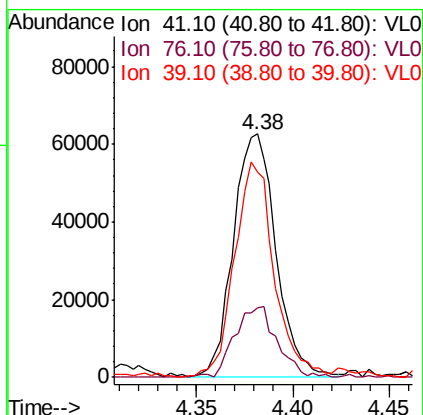
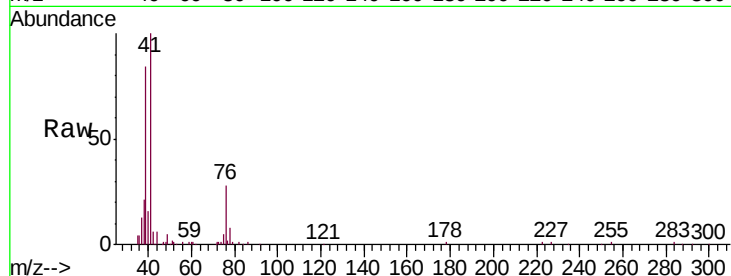




#21  
 Allyl Chloride  
 Concen: 0.962 ppbv  
 RT: 4.38 min Scan# 496  
 Delta R.T. 0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

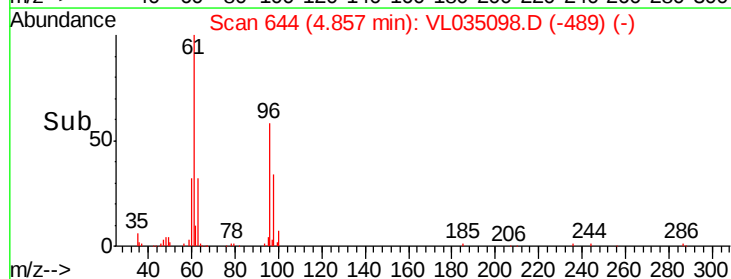
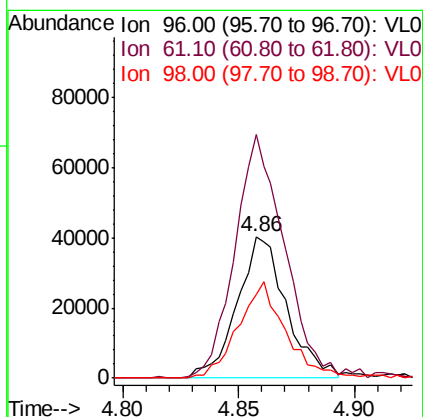
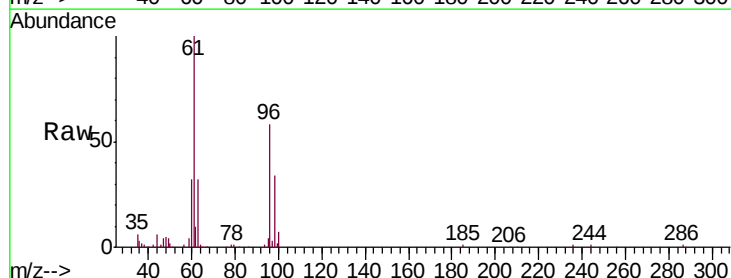
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

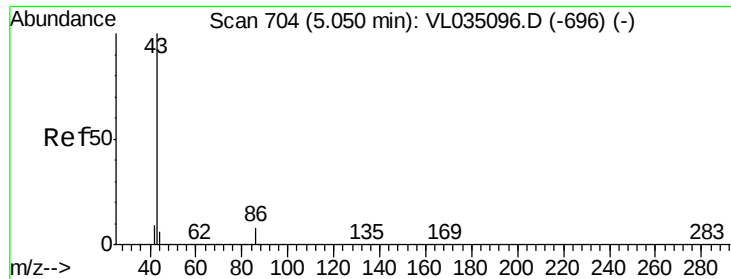
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 96305 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 29.1  | 22.6  | 34.0  |
| 39       | 84.6  | 61.6  | 92.4  |



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.986 ppbv  
 RT: 4.86 min Scan# 644  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 58777 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 171.9 | 134.5 | 201.7 |
| 98       | 59.3  | 52.6  | 79.0  |





#23

Vinyl Acetate

Concen: 0.890 ppbv

RT: 5.05 min Scan# 703

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

Tgt Ion: 43 Resp: 198413

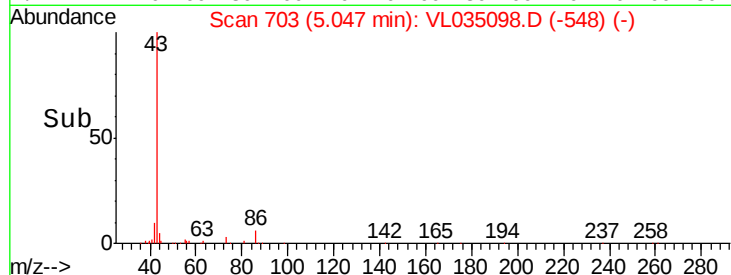
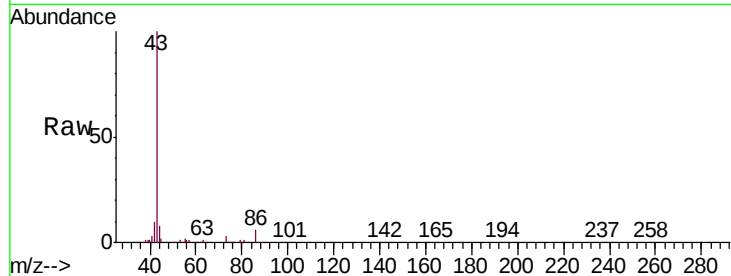
Ion Ratio Lower Upper

43 100

86 5.9 6.2 9.2#

42 9.0 8.1 12.1

44 5.9 4.6 7.0

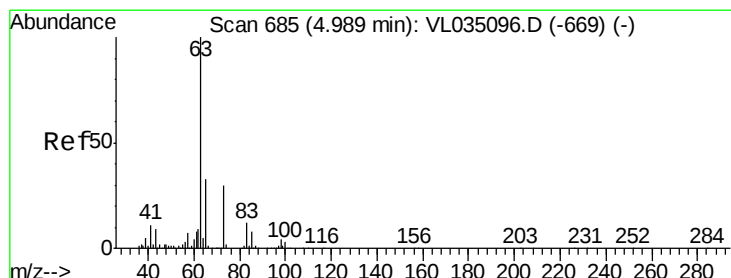
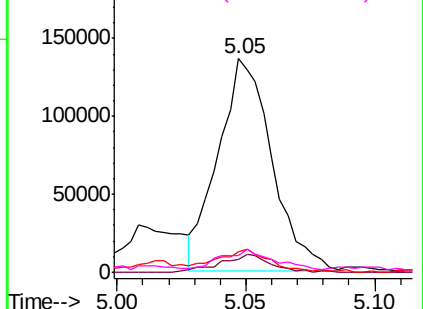


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 1.020 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

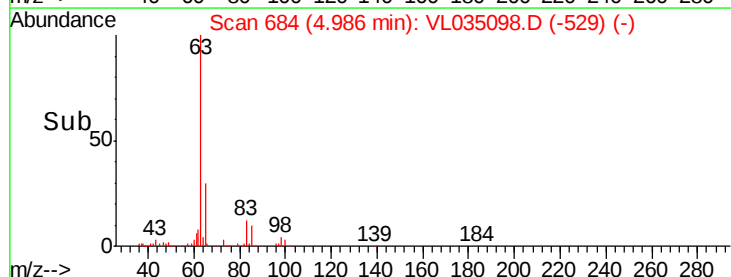
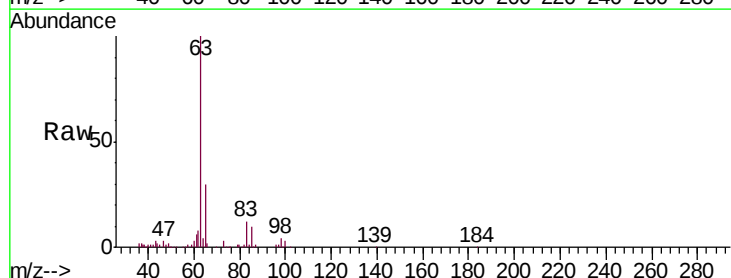
Tgt Ion: 63 Resp: 177333

Ion Ratio Lower Upper

63 100

98 4.1 2.3 6.9

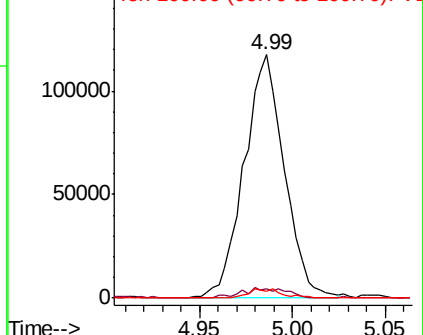
100 3.0 1.4 4.0

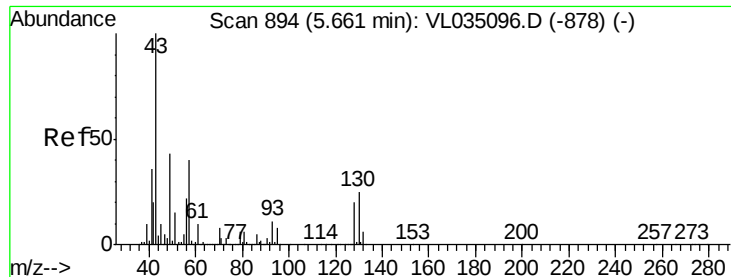


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

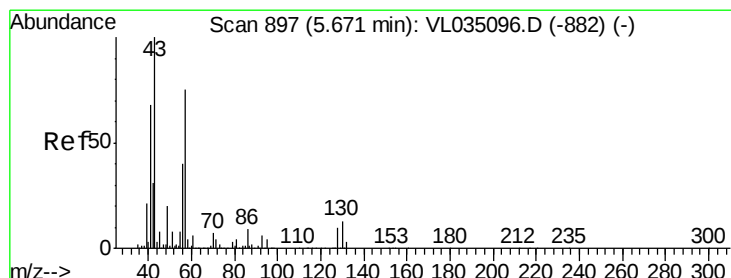
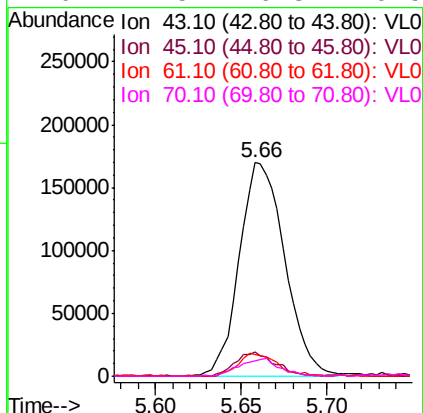
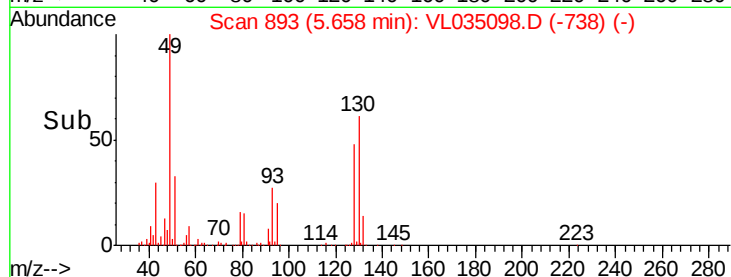
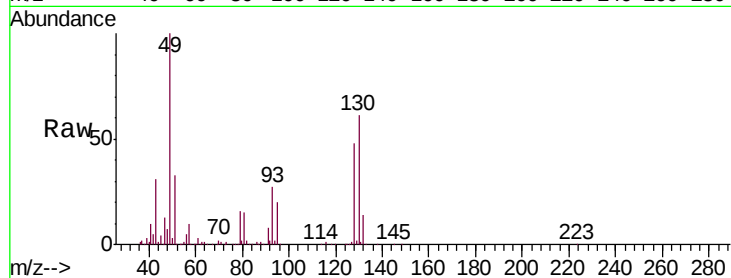




#25  
Ethyl Acetate  
Concen: 1.045 ppbv  
RT: 5.66 min Scan# 893  
Delta R.T. -0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

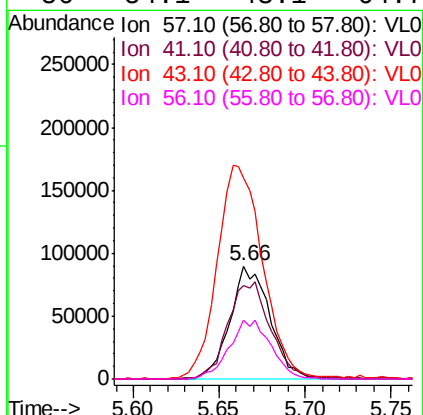
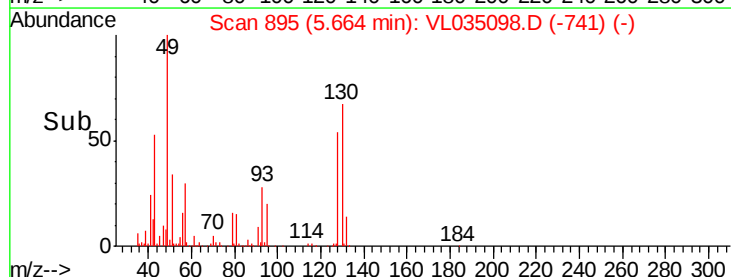
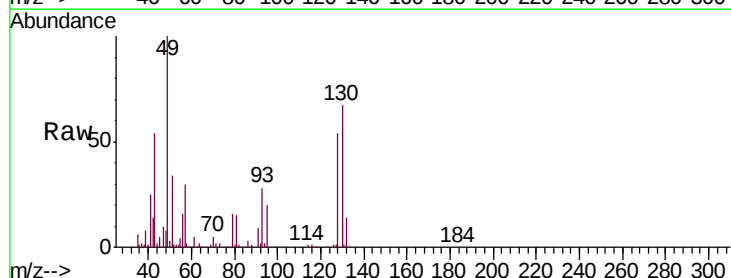
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

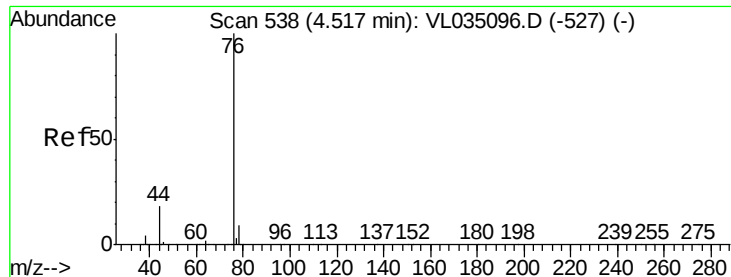
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 311823 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.4  | 8.4   | 12.6   |
| 61       | 9.5   | 8.0   | 12.0   |
| 70       | 7.5   | 6.3   | 9.5    |



#26  
Hexane  
Concen: 1.116 ppbv  
RT: 5.66 min Scan# 895  
Delta R.T. -0.01 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 144483 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 92.1  | 72.9  | 109.3  |
| 43       | 218.7 | 181.3 | 271.9  |
| 56       | 54.1  | 43.1  | 64.7   |





#27

Carbon Disulfide

Concen: 0.884 ppbv

RT: 4.52 min Scan# 540

Delta R.T. 0.01 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

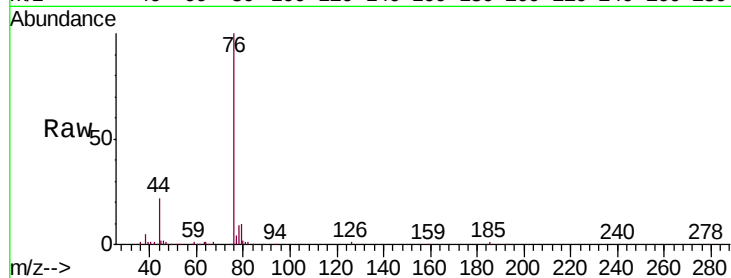
Tgt Ion: 76 Resp: 133538

Ion Ratio Lower Upper

76 100

44 22.3 15.8 23.8

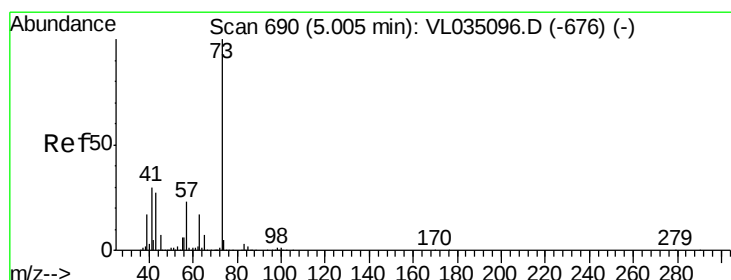
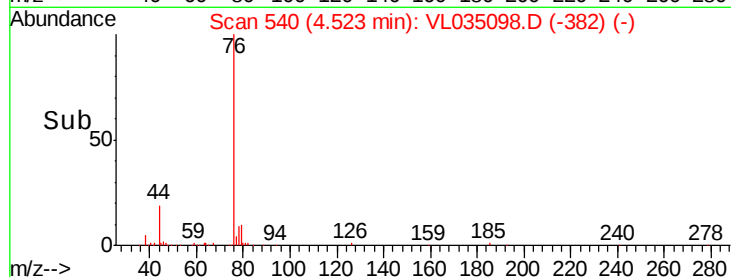
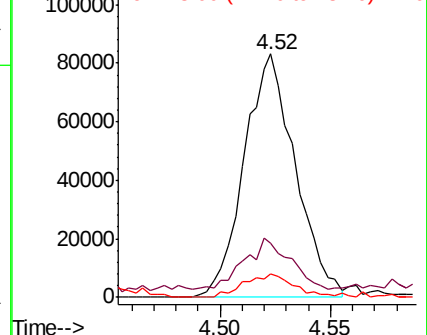
78 10.2 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.996 ppbv

RT: 5.01 min Scan# 693

Delta R.T. 0.01 min

Lab File: VL035098.D

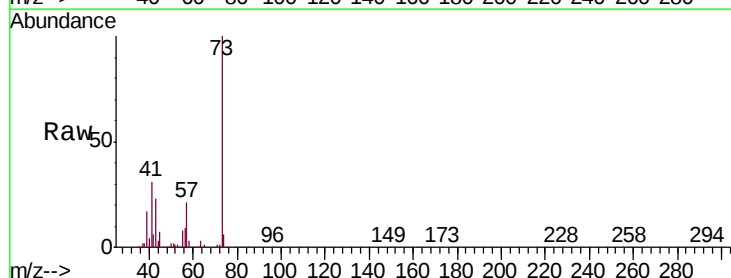
Acq: 19 Jun 2020 17:13

Tgt Ion: 73 Resp: 195802

Ion Ratio Lower Upper

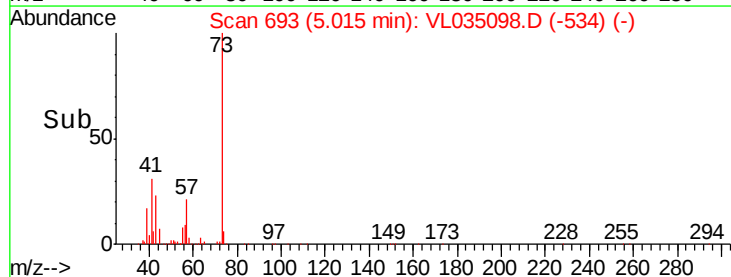
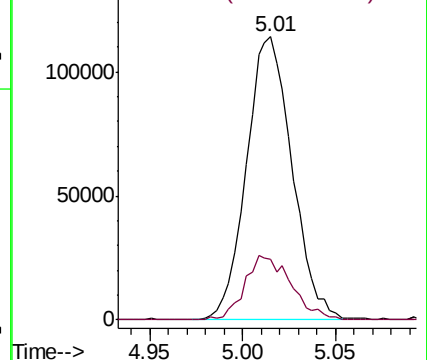
73 100

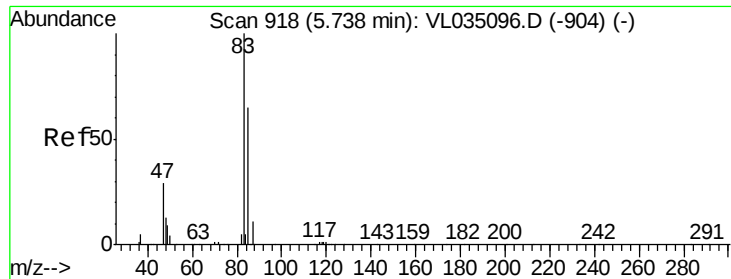
57 23.0 18.5 27.7



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

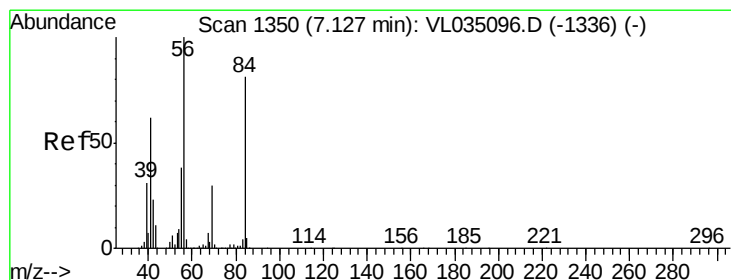
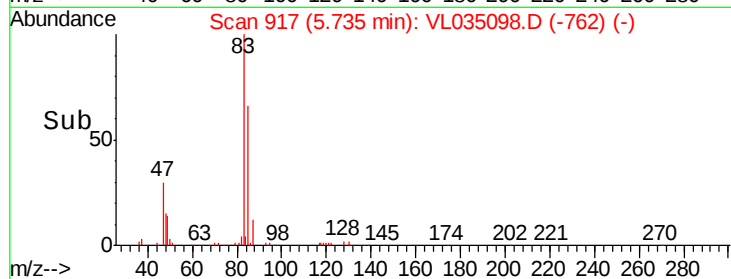
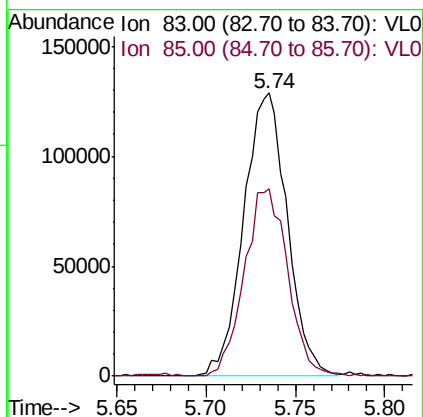
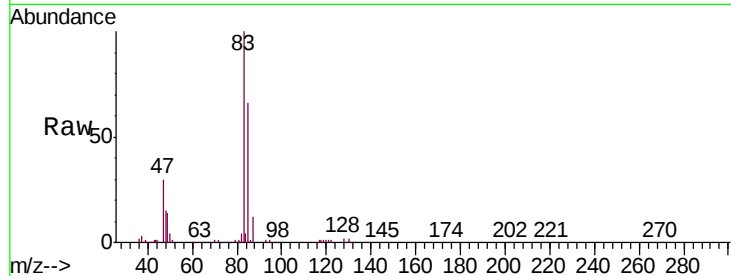




#29  
Chloroform  
Concen: 1.037 ppbv  
RT: 5.74 min Scan# 917  
Delta R.T. -0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

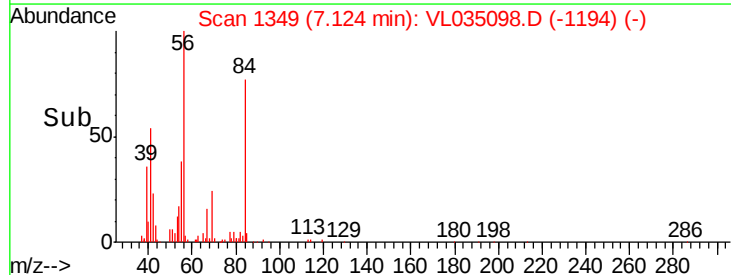
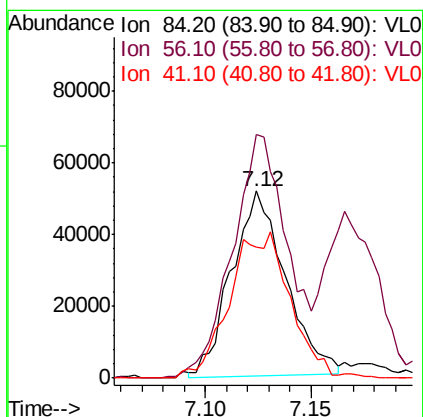
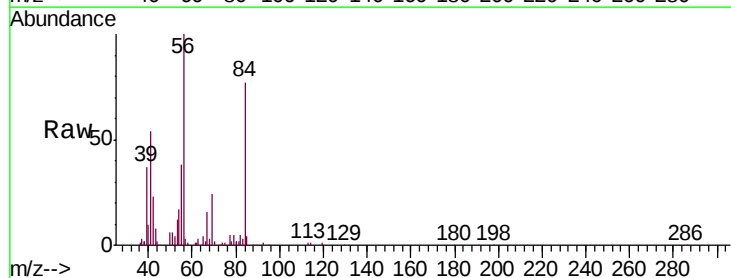
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

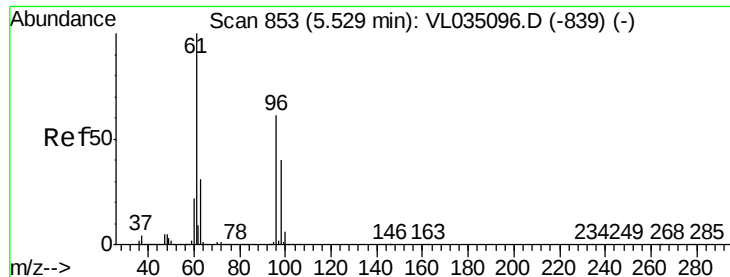
Tgt Ion: 83 Resp: 220400  
Ion Ratio Lower Upper  
83 100  
85 65.9 52.1 78.1



#30  
Cyclohexane  
Concen: 0.917 ppbv  
RT: 7.12 min Scan# 1349  
Delta R.T. -0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 84 Resp: 92140  
Ion Ratio Lower Upper  
84 100  
56 138.4 108.0 162.0  
41 88.4 65.6 98.4



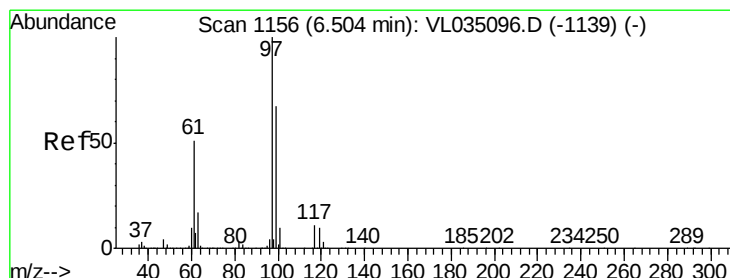
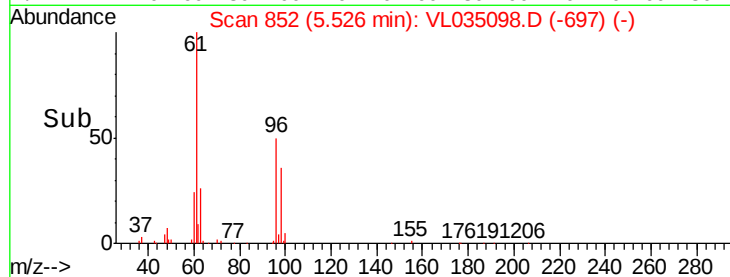
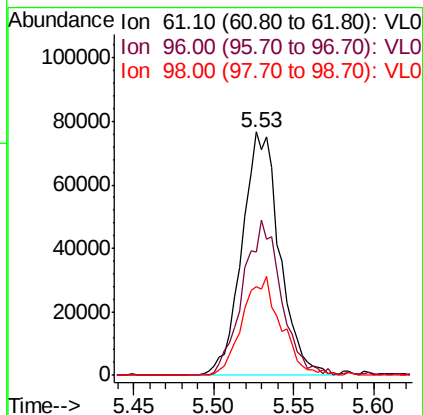
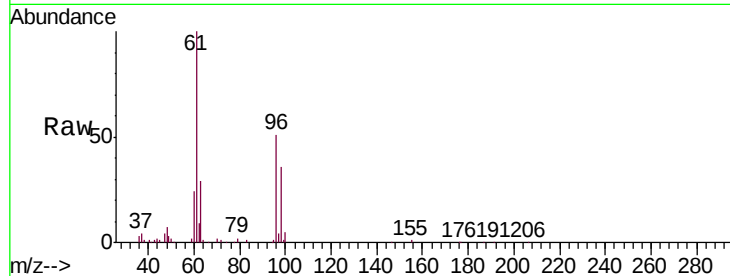


#31

cis-1,2-Dichloroethene  
 Concen: 0.971 ppbv  
 RT: 5.53 min Scan# 852  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

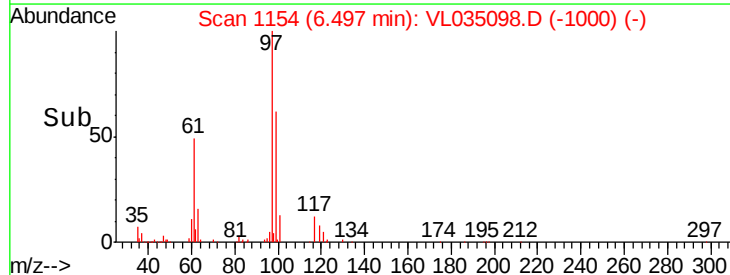
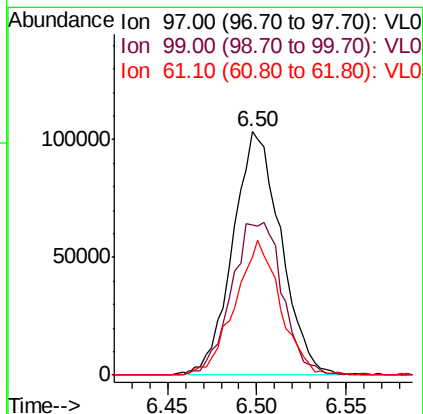
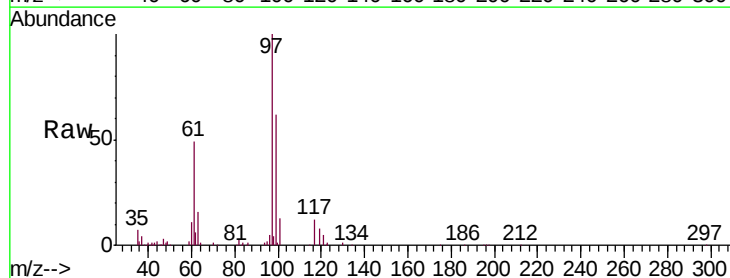
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 61    | Resp: | 123190 |
| Ion      | Ratio | Lower | Upper  |
| 61       | 100   |       |        |
| 96       | 50.6  | 48.8  | 73.2   |
| 98       | 36.4  | 31.9  | 47.9   |

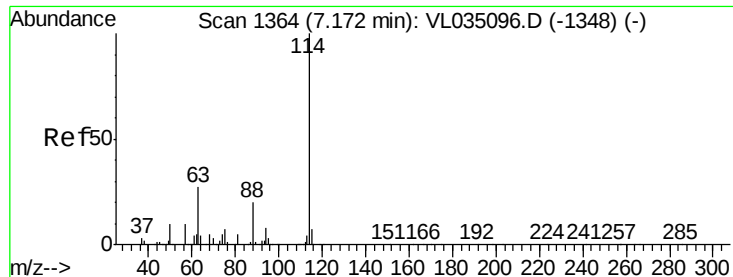


#32

1,1,1-Trichloroethane  
 Concen: 1.007 ppbv  
 RT: 6.50 min Scan# 1154  
 Delta R.T. -0.01 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 193399 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 67.1  | 52.0  | 78.0   |
| 61       | 52.7  | 41.0  | 61.6   |

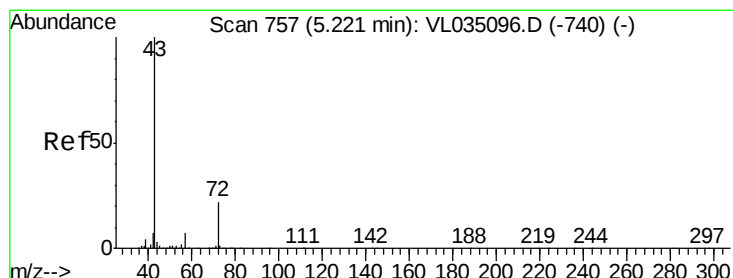
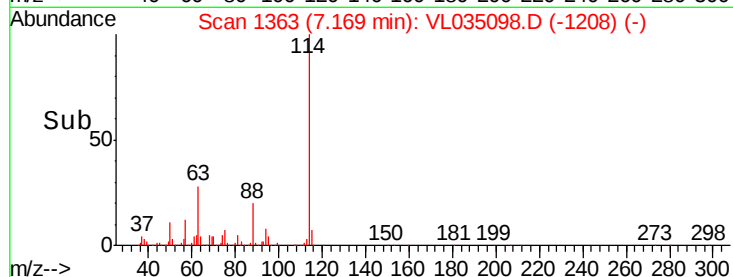
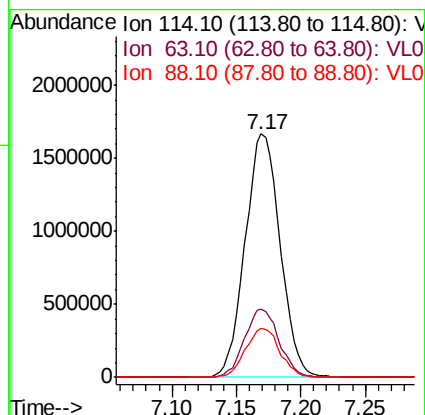
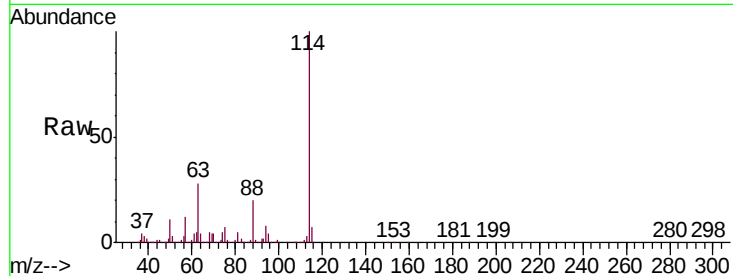




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1363  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

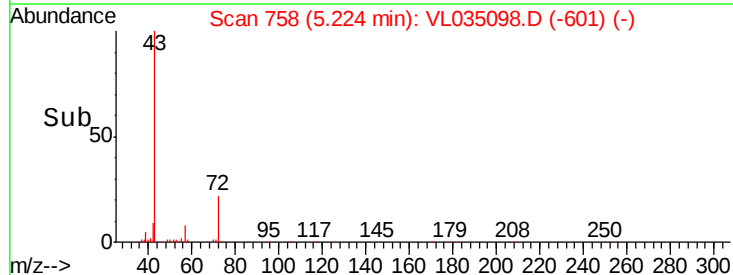
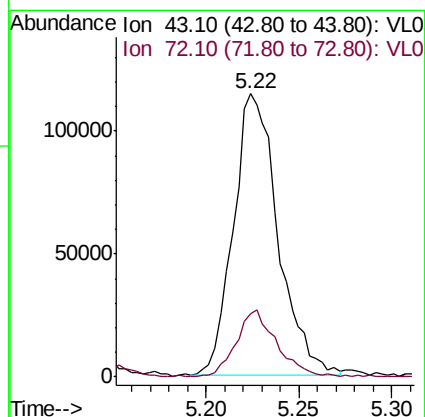
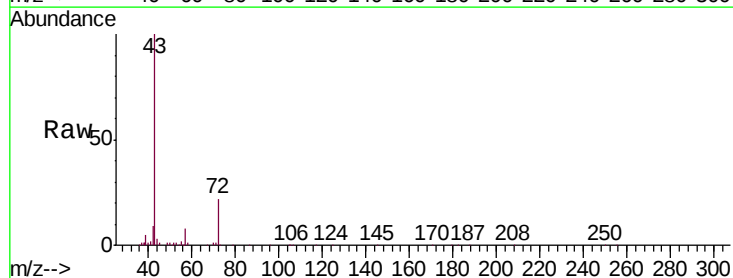
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

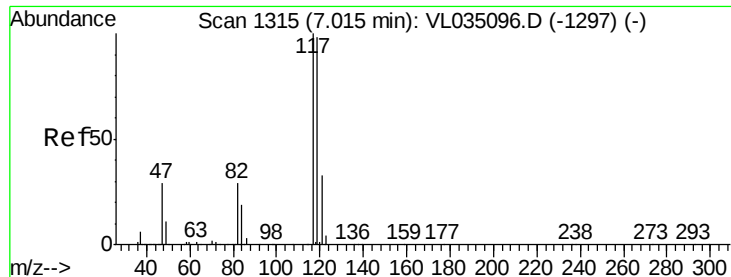
Tgt Ion:114 Resp: 3157909  
 Ion Ratio Lower Upper  
 114 100  
 63 27.8 21.9 32.9  
 88 19.8 15.6 23.4



#34  
 2-Butanone  
 Concen: 0.978 ppbv  
 RT: 5.22 min Scan# 758  
 Delta R.T. 0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

Tgt Ion: 43 Resp: 190683  
 Ion Ratio Lower Upper  
 43 100  
 72 22.1 18.3 27.5





#35

Carbon Tetrachloride

Concen: 0.938 ppbv

RT: 7.01 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

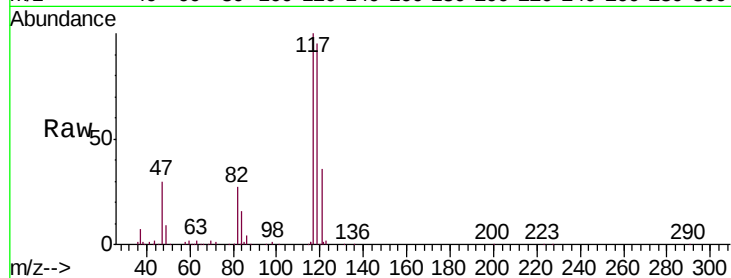
Tgt Ion: 117 Resp: 186674

Ion Ratio Lower Upper

117 100

119 94.7 78.3 117.5

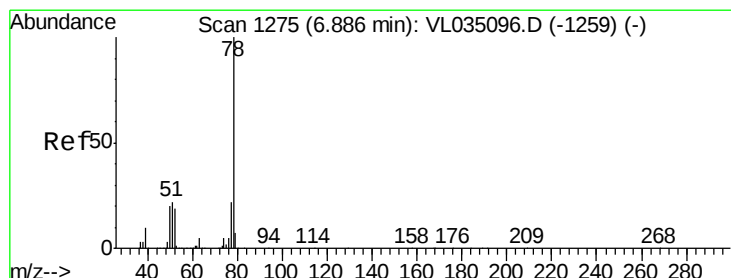
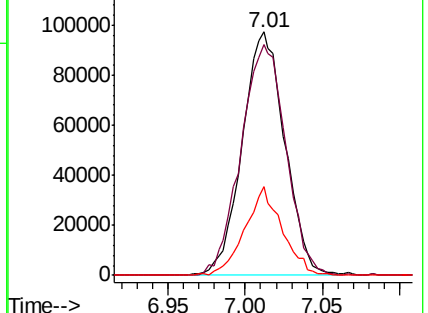
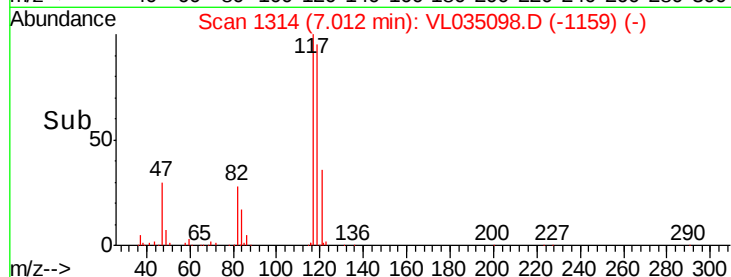
121 36.2 26.0 39.0



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: 0.967 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

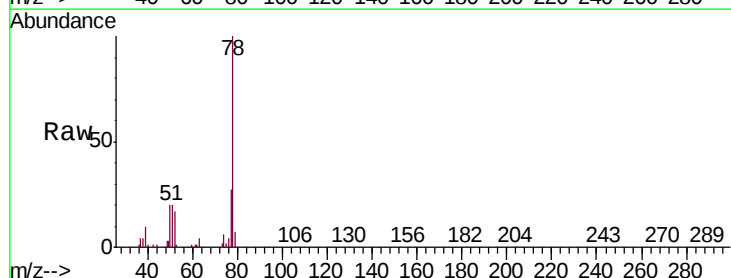
Tgt Ion: 78 Resp: 251428

Ion Ratio Lower Upper

78 100

77 26.6 17.8 26.6

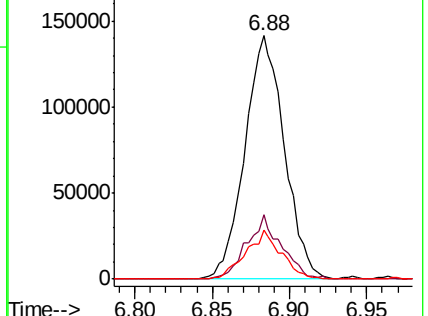
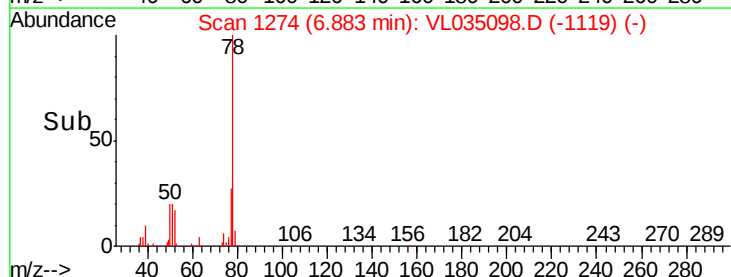
50 20.1 16.2 24.2

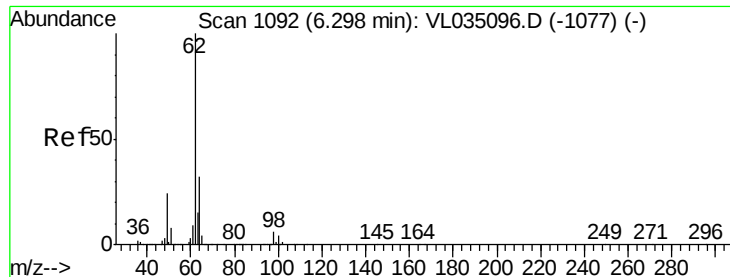


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

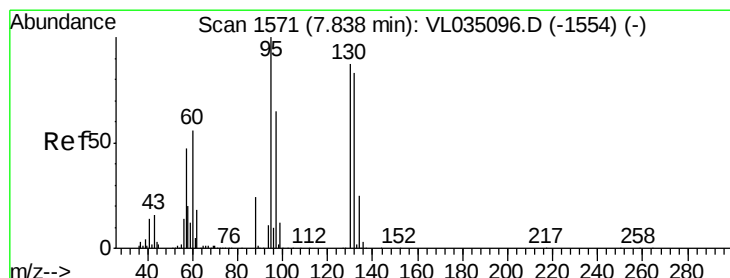
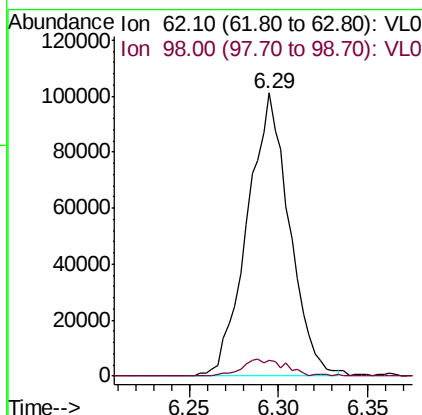
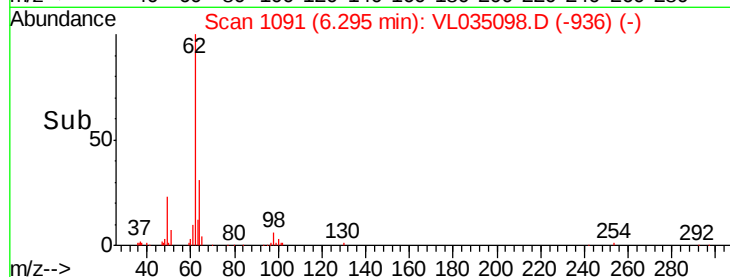
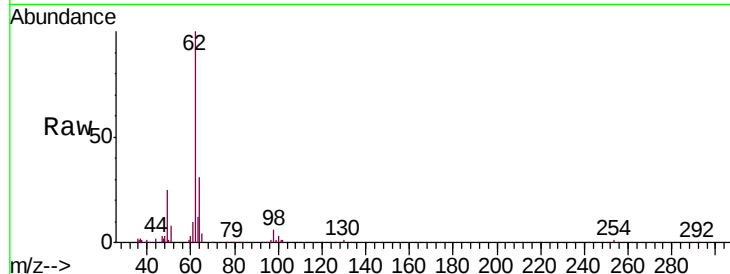




#37  
 1,2-Dichloroethane  
 Concen: 1.037 ppbv  
 RT: 6.29 min Scan# 1091  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

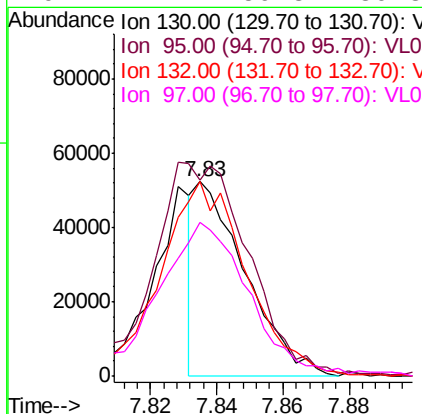
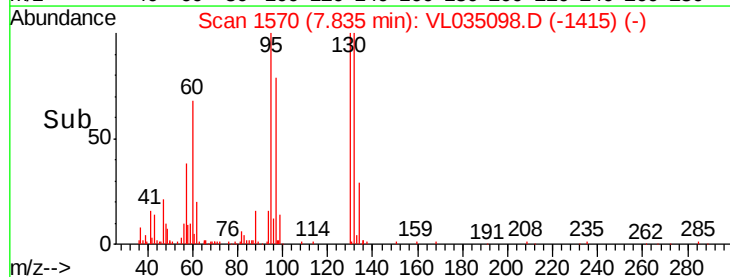
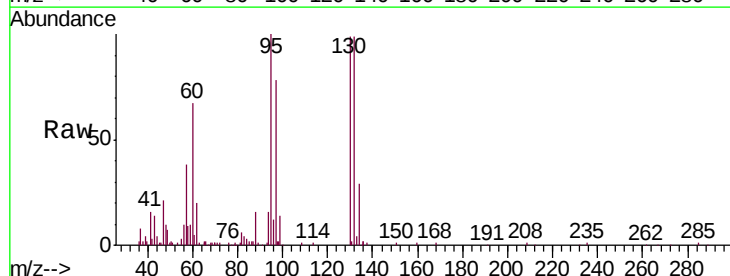
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

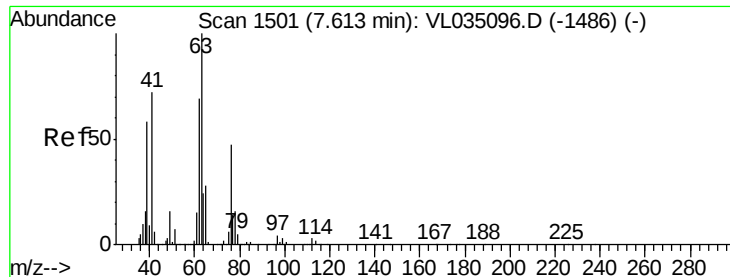
Tgt Ion: 62 Resp: 166639  
 Ion Ratio Lower Upper  
 62 100  
 98 6.3 4.8 7.2



#38  
 Trichloroethene  
 Concen: 0.542 ppbv  
 RT: 7.83 min Scan# 1570  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

Tgt Ion: 130 Resp: 54821  
 Ion Ratio Lower Upper  
 130 100  
 95 99.9 91.4 137.2  
 132 98.3 75.8 113.6  
 97 77.4 59.8 89.8

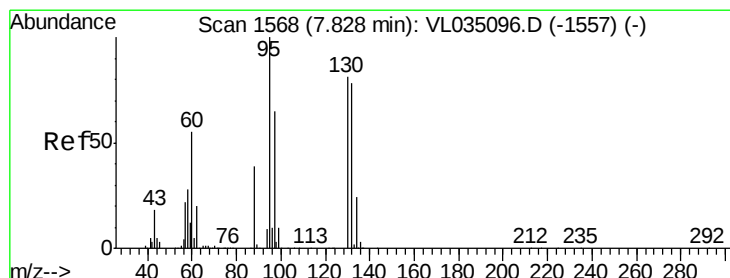
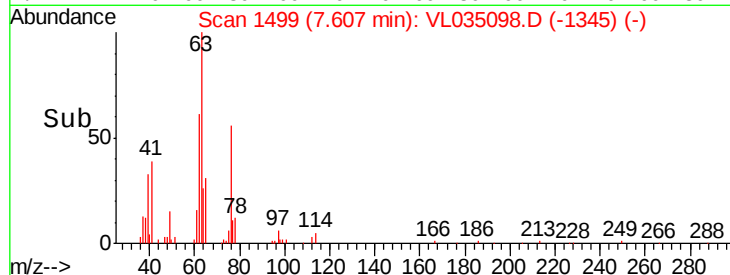
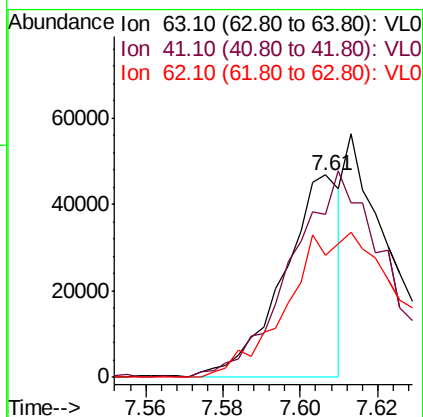
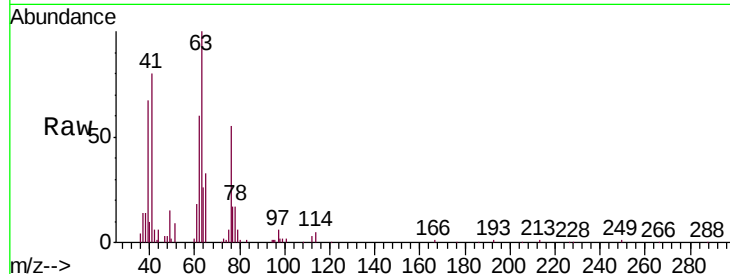




#39  
 1,2-Dichloropropane  
 Concen: 0.459 ppbv  
 RT: 7.61 min Scan# 1499  
 Delta R.T. -0.01 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

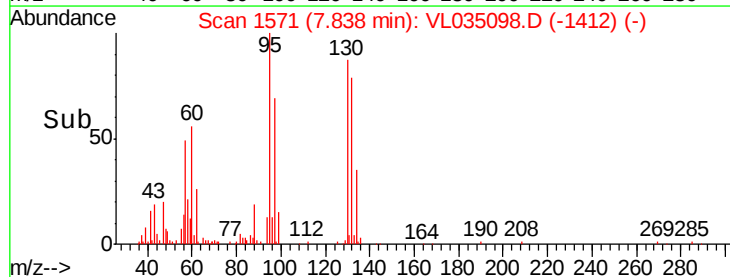
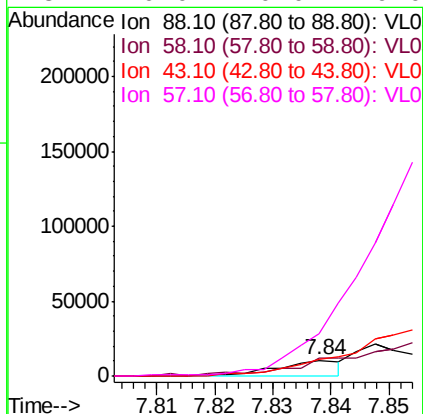
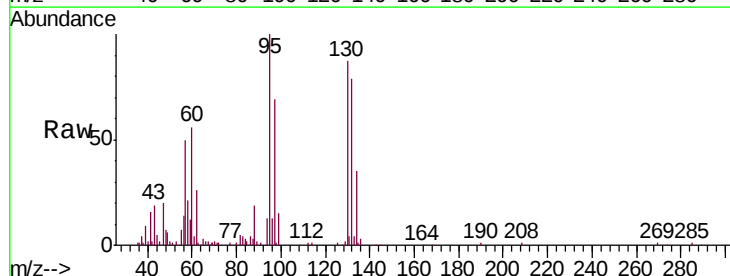
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

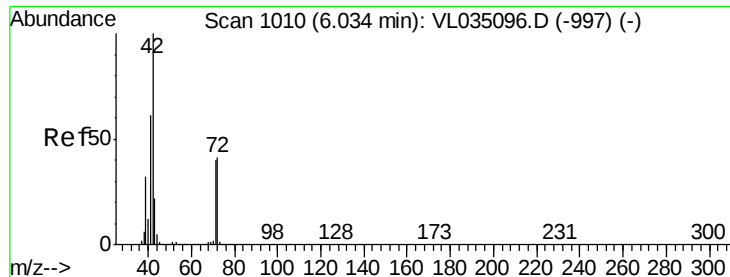
Tgt Ion: 63 Resp: 47815  
 Ion Ratio Lower Upper  
 63 100  
 41 80.3 58.0 87.0  
 62 59.8 55.4 83.0



#40  
 1,4-Dioxane  
 Concen: 0.193 ppbv  
 RT: 7.84 min Scan# 1571  
 Delta R.T. 0.01 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

Tgt Ion: 88 Resp: 8020  
 Ion Ratio Lower Upper  
 88 100  
 58 0.0 110.2 165.4#  
 43 0.0 0.0 0.0  
 57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.462 ppbv

RT: 6.04 min Scan# 1012

Delta R.T. 0.01 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

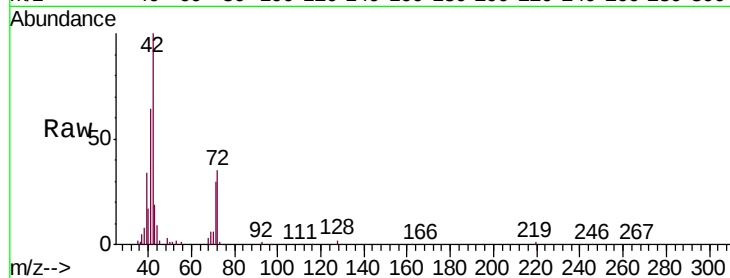
Tgt Ion: 42 Resp: 47269

Ion Ratio Lower Upper

42 100

72 76.4 33.4 50.2#

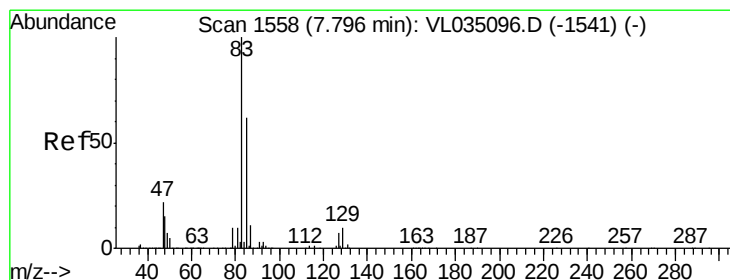
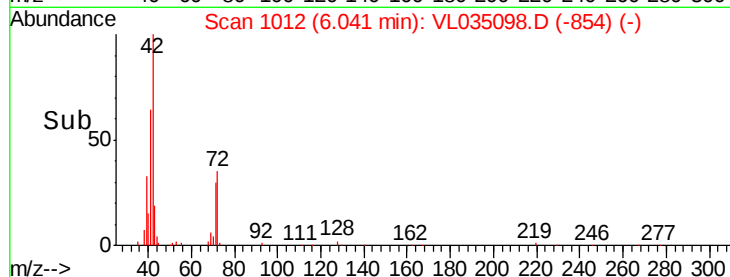
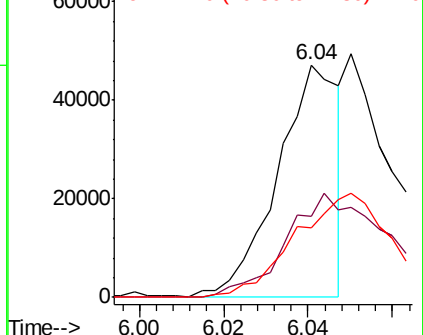
71 0.0 31.8 47.6#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.910 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. -0.01 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

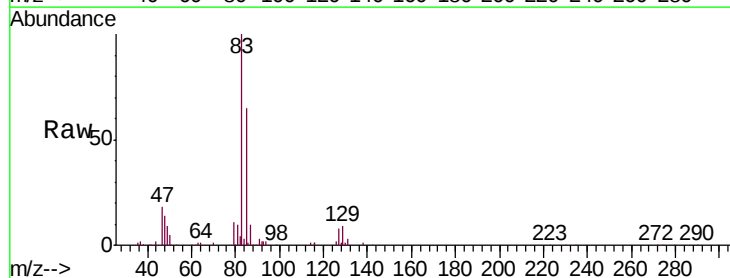
Tgt Ion: 83 Resp: 197207

Ion Ratio Lower Upper

83 100

85 65.0 49.4 74.0

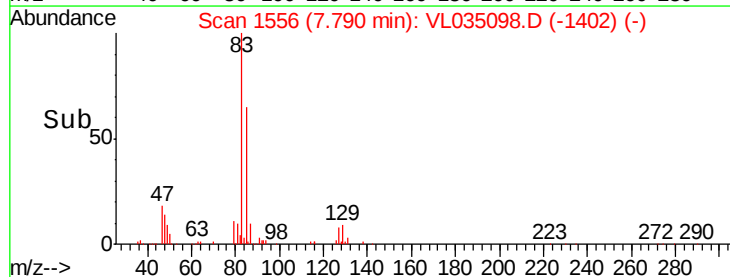
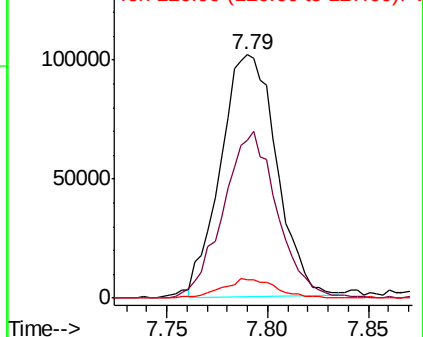
127 7.9 5.9 8.9

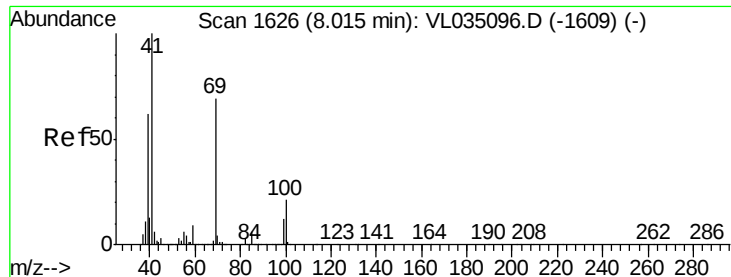


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

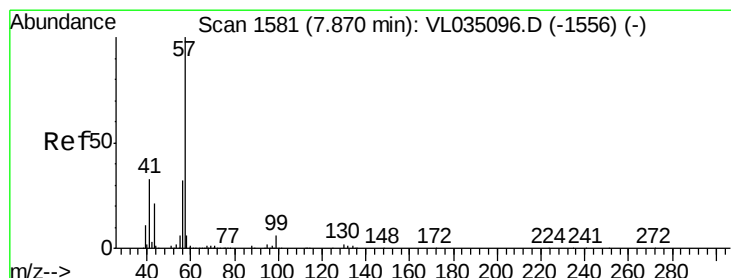
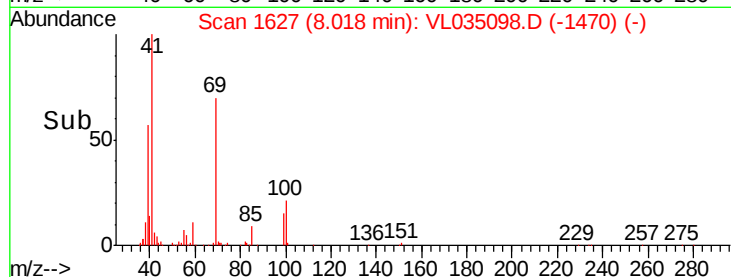
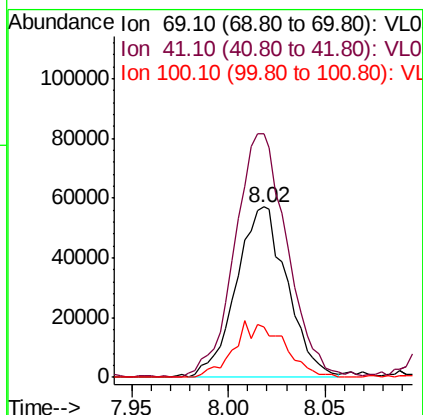
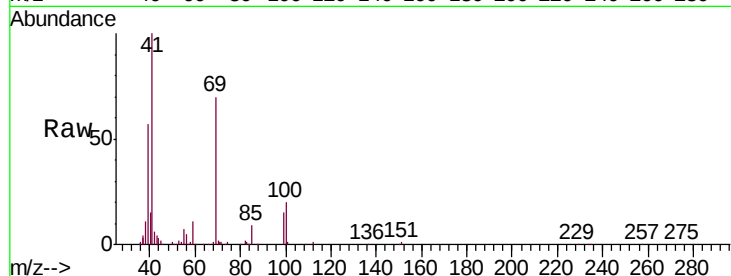




#43  
Methyl Methacrylate  
Concen: 0.936 ppbv  
RT: 8.02 min Scan# 1627  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

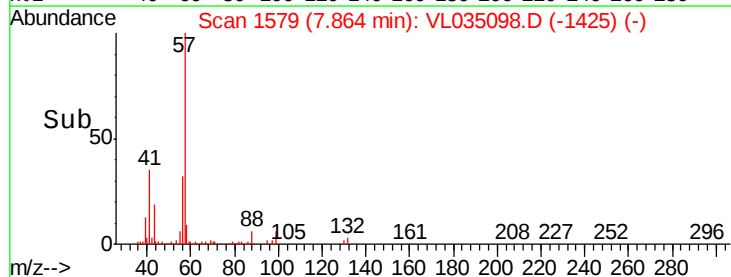
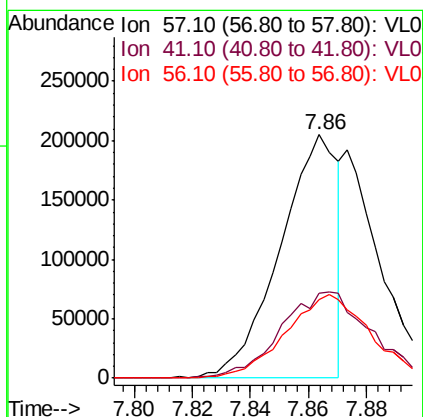
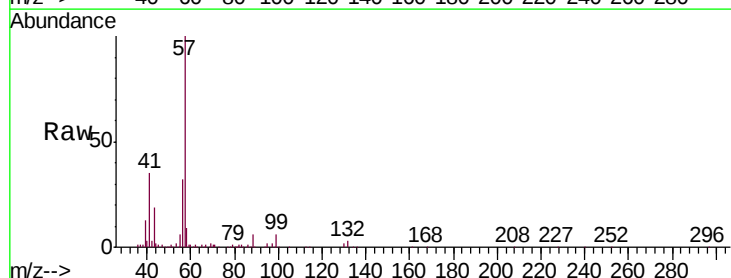
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

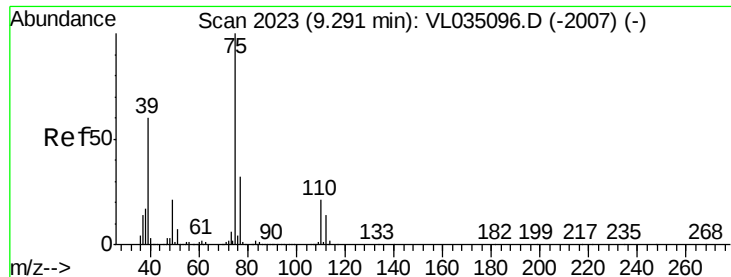
Tgt Ion: 69 Resp: 102691  
Ion Ratio Lower Upper  
69 100  
41 148.0 116.4 174.6  
100 32.3 25.3 37.9



#44  
2,2,4-Trimethylpentane  
Concen: 0.608 ppbv  
RT: 7.86 min Scan# 1579  
Delta R.T. -0.01 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 57 Resp: 280898  
Ion Ratio Lower Upper  
57 100  
41 56.0 26.2 39.2#  
56 50.9 25.4 38.2#

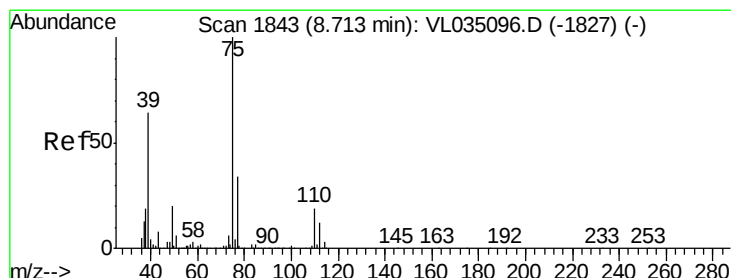
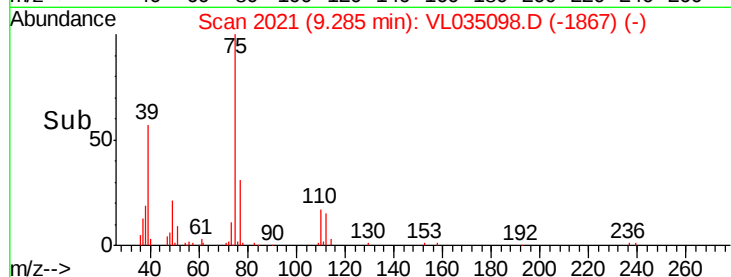
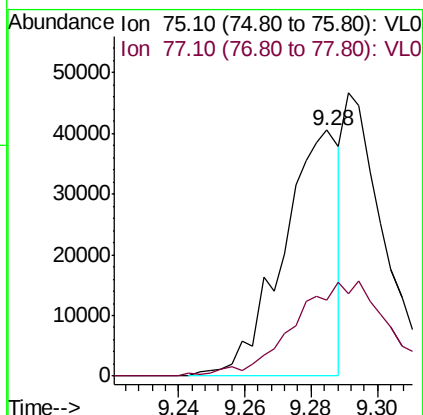
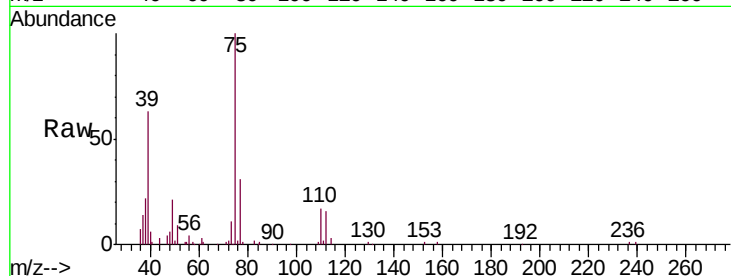




#45  
t-1,3-Dichloropropene  
Concen: 0.438 ppbv  
RT: 9.28 min Scan# 2021  
Delta R.T. -0.01 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

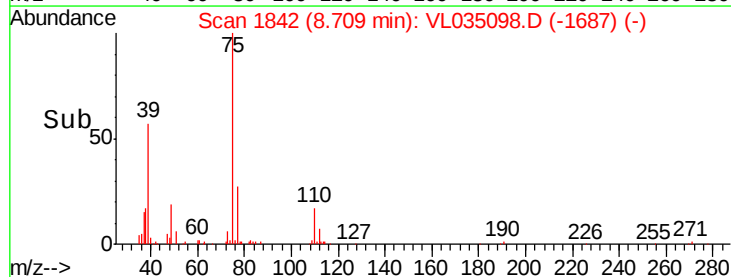
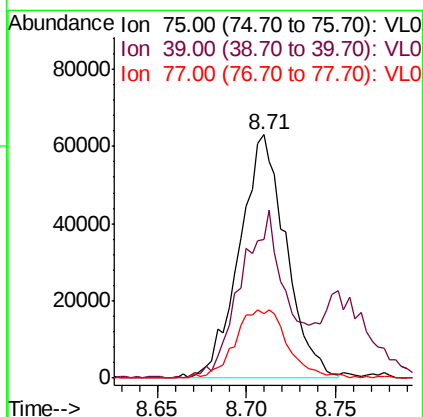
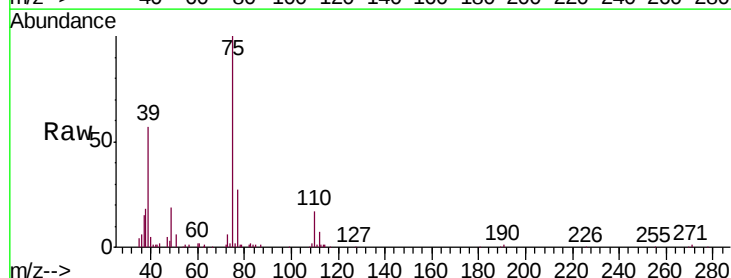
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

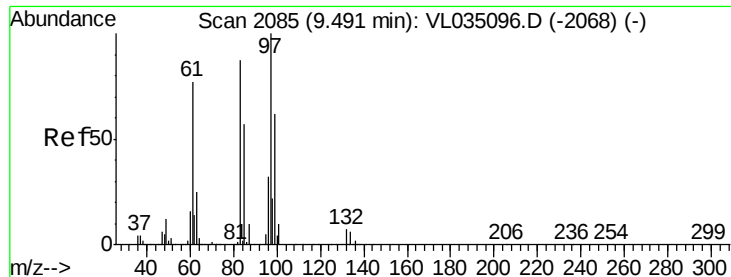
Tgt Ion: 75 Resp: 48236  
Ion Ratio Lower Upper  
75 100  
77 30.8 25.5 38.3



#46  
cis-1,3-Dichloropropene  
Concen: 0.839 ppbv  
RT: 8.71 min Scan# 1842  
Delta R.T. -0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 75 Resp: 113659  
Ion Ratio Lower Upper  
75 100  
39 56.3 51.1 76.7  
77 26.5 26.9 40.3#

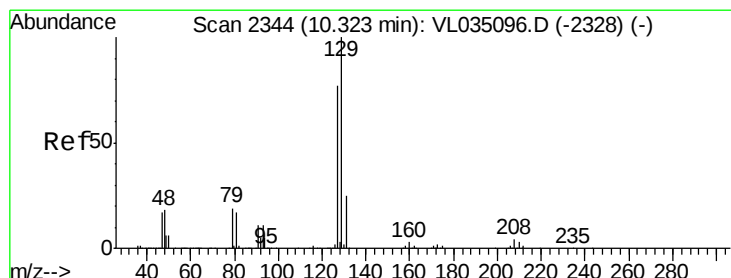
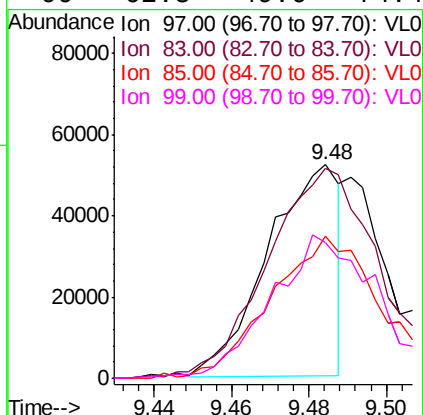
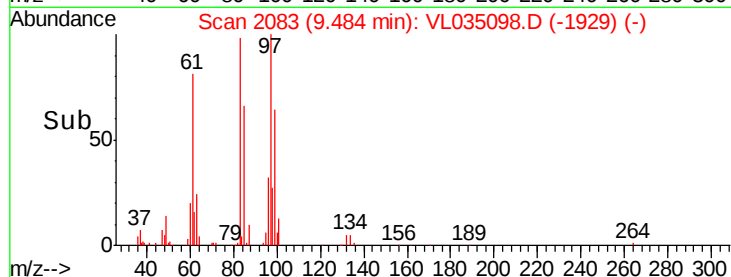
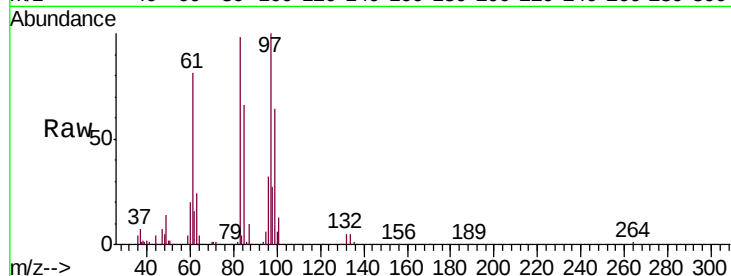




#47  
 1,1,2-Trichloroethane  
 Concen: 0.610 ppbv  
 RT: 9.48 min Scan# 2083  
 Delta R.T. -0.01 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

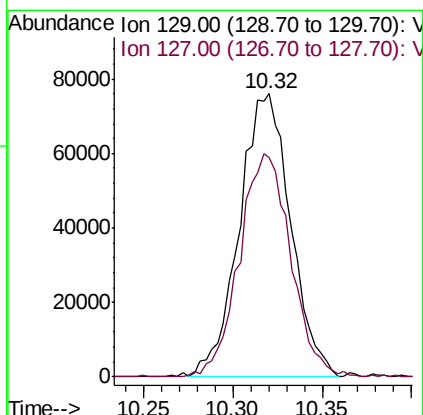
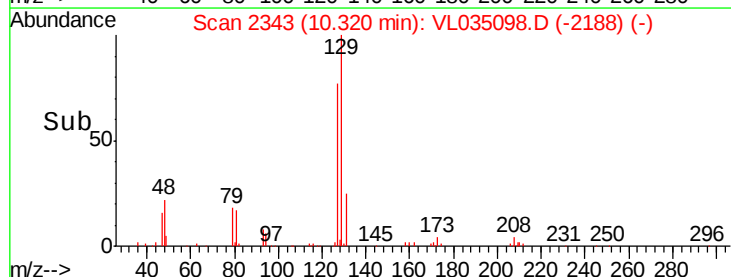
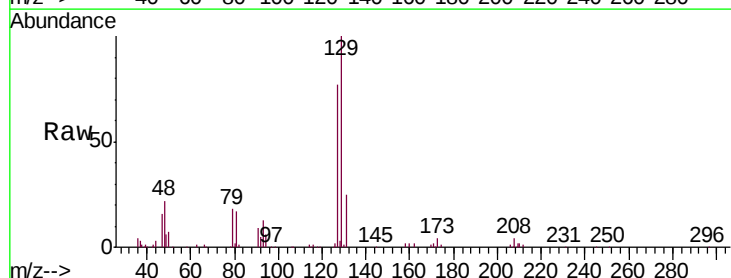
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

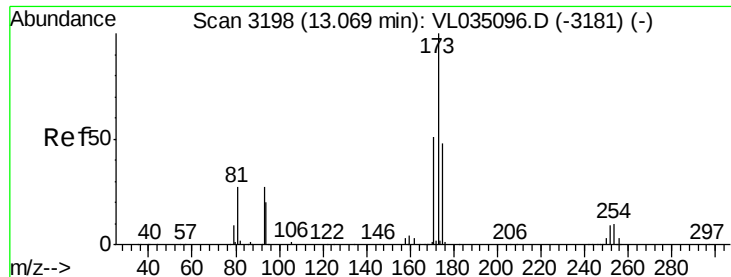
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 67300 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 96.5  | 69.5  | 104.3 |
| 85       | 66.1  | 46.0  | 69.0  |
| 99       | 62.8  | 49.6  | 74.4  |



#48  
 Dibromochloromethane  
 Concen: 0.902 ppbv  
 RT: 10.32 min Scan# 2343  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 129   | Resp: | 152604 |
| Ion      | Ratio | Lower | Upper  |
| 129      | 100   |       |        |
| 127      | 78.9  | 39.3  | 117.8  |





#49

Bromoform

Concen: 0.868 ppbv

RT: 13.07 min Scan# 3197

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

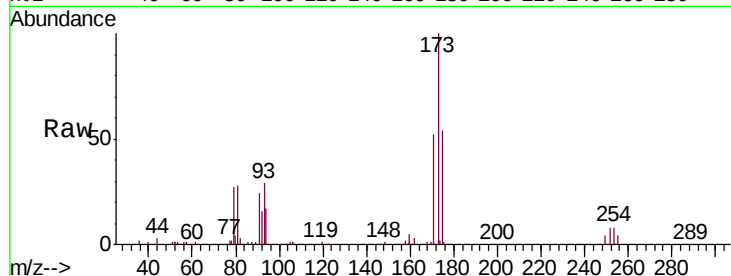
Tgt Ion:173 Resp: 125999

Ion Ratio Lower Upper

173 100

175 48.2 39.1 58.7

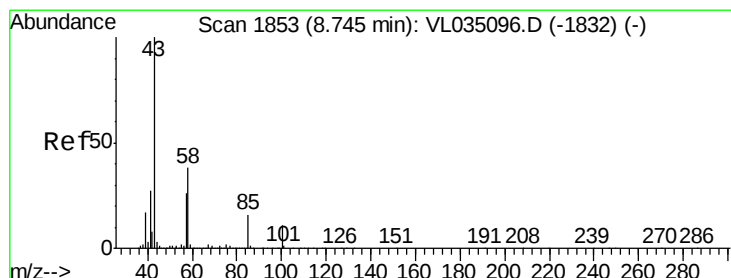
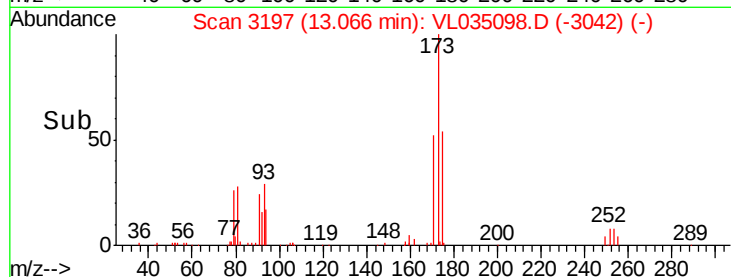
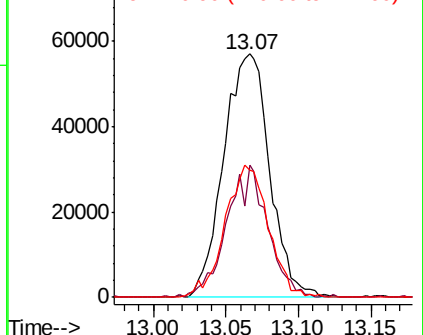
171 51.0 41.7 62.5



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.956 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. 0.01 min

Lab File: VL035098.D

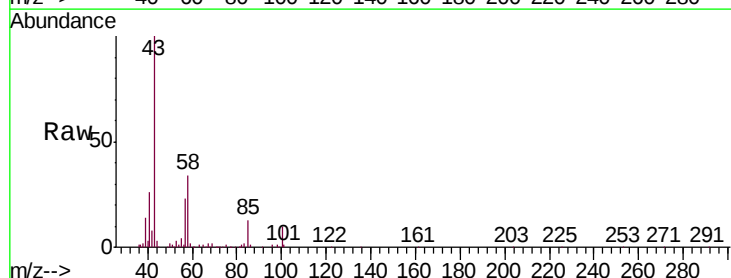
Acq: 19 Jun 2020 17:13

Tgt Ion: 43 Resp: 265545

Ion Ratio Lower Upper

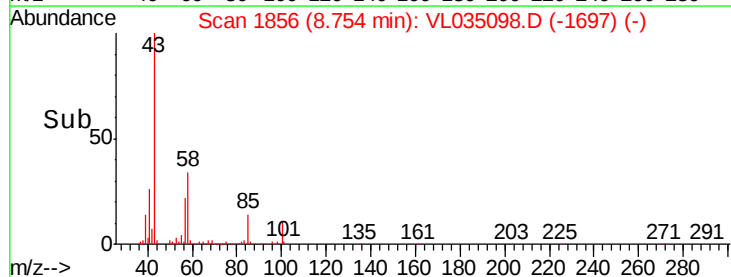
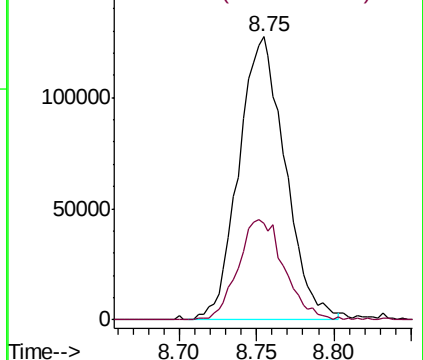
43 100

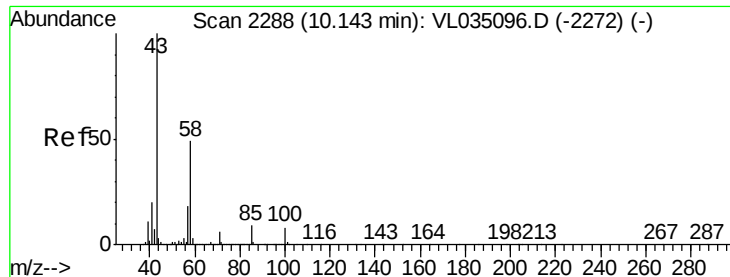
58 35.5 29.4 44.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

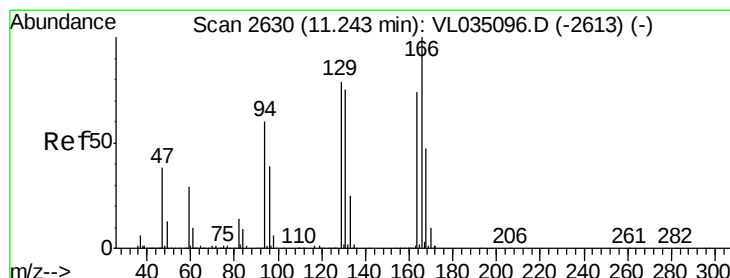
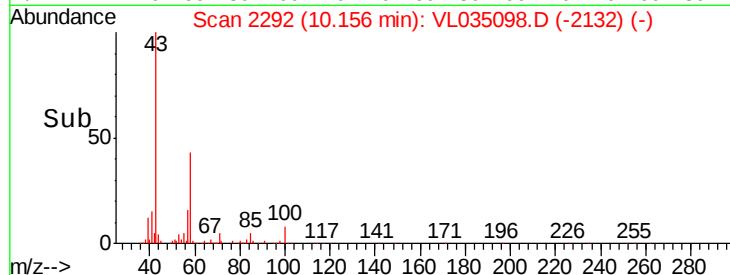
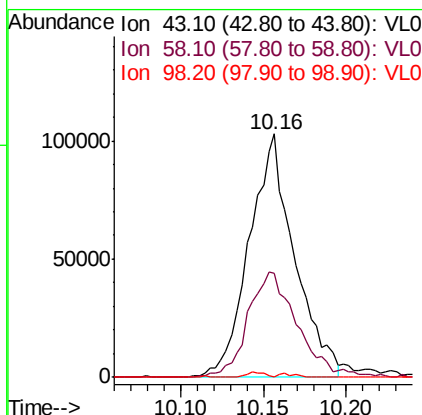
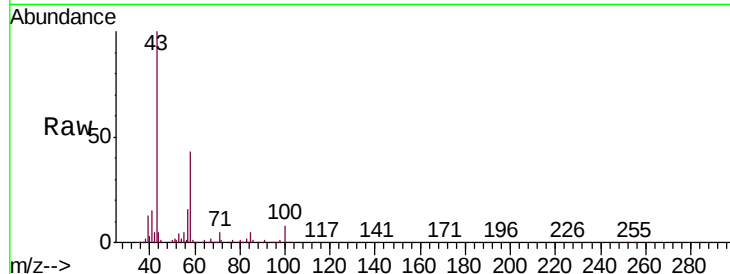




#51  
2-Hexanone  
Concen: 0.899 ppbv  
RT: 10.16 min Scan# 2292  
Delta R.T. 0.01 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

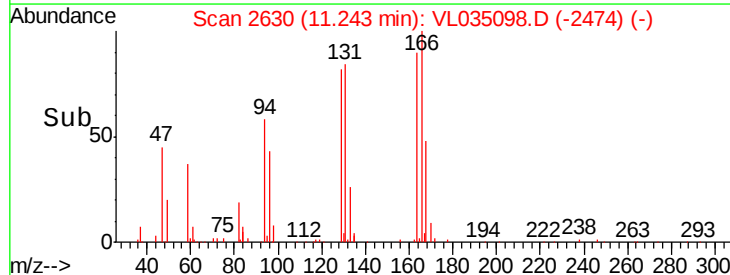
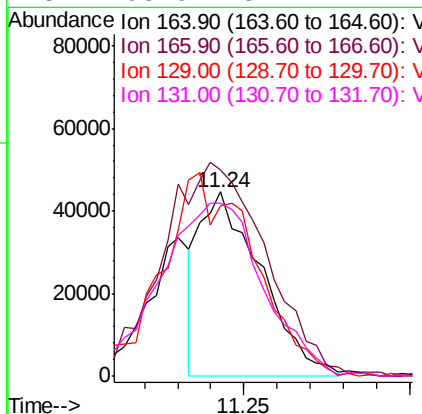
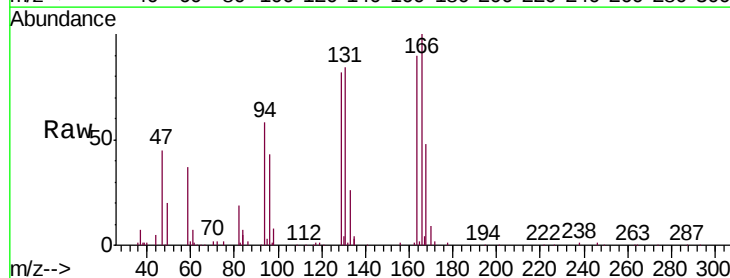
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

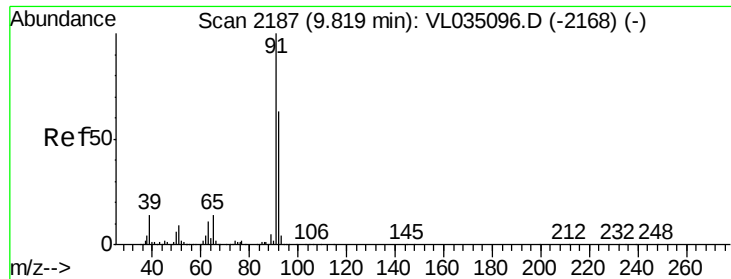
Tgt Ion: 43 Resp: 194952  
Ion Ratio Lower Upper  
43 100  
58 48.0 39.2 58.8  
98 1.5 0.3 0.5#



#52  
Tetrachloroethene  
Concen: 0.617 ppbv  
RT: 11.24 min Scan# 2630  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 164 Resp: 57214  
Ion Ratio Lower Upper  
164 100  
166 109.0 107.5 161.3  
129 93.2 84.9 127.3  
131 95.9 81.1 121.7





#53

Toluene

Concen: 0.940 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

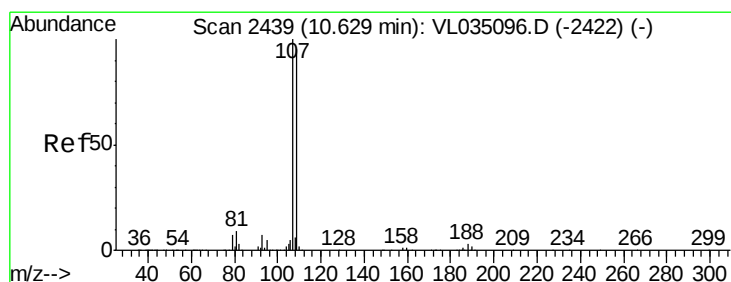
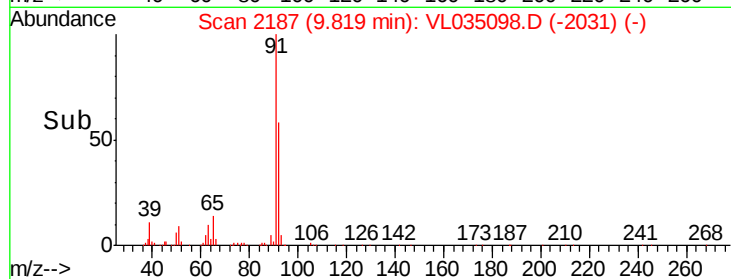
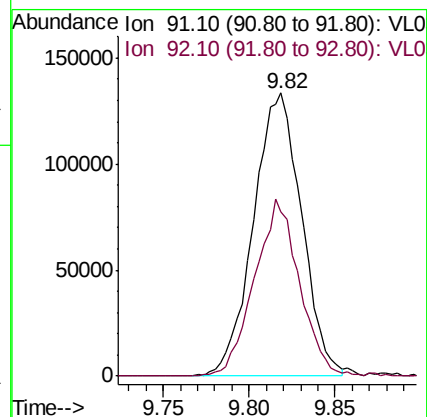
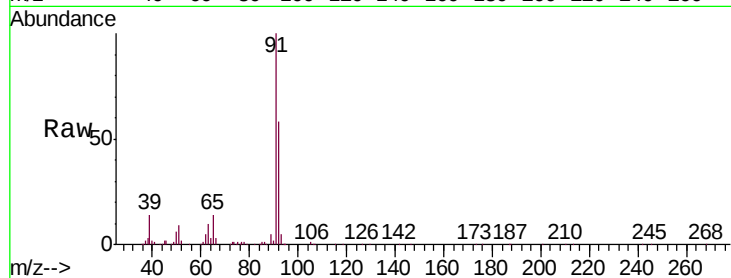
VSTDICCC001

Tgt Ion: 91 Resp: 259278

Ion Ratio Lower Upper

91 100

92 58.4 49.0 73.6



#54

1,2-Dibromoethane

Concen: 1.011 ppbv

RT: 10.63 min Scan# 2438

Delta R.T. -0.00 min

Lab File: VL035098.D

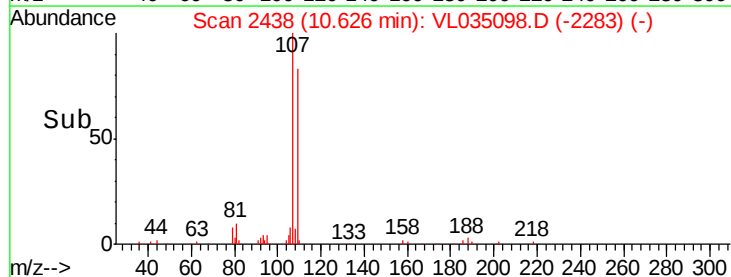
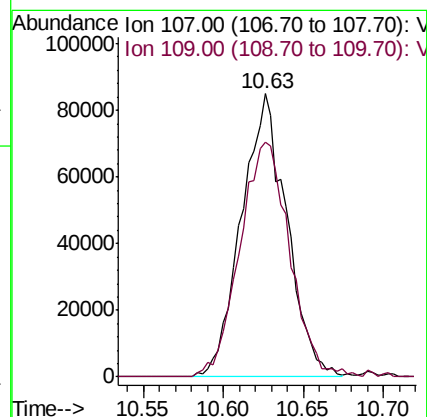
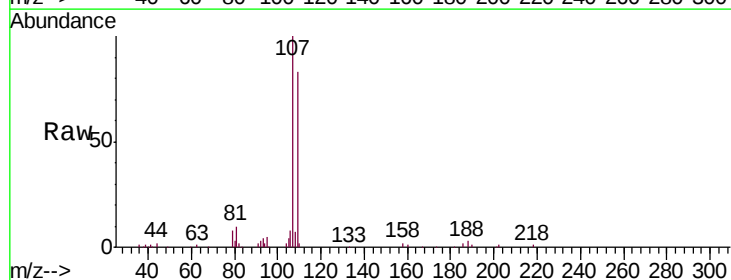
Acq: 19 Jun 2020 17:13

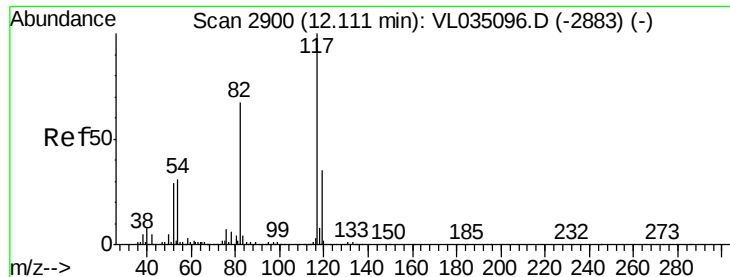
Tgt Ion: 107 Resp: 163380

Ion Ratio Lower Upper

107 100

109 83.2 75.9 113.9

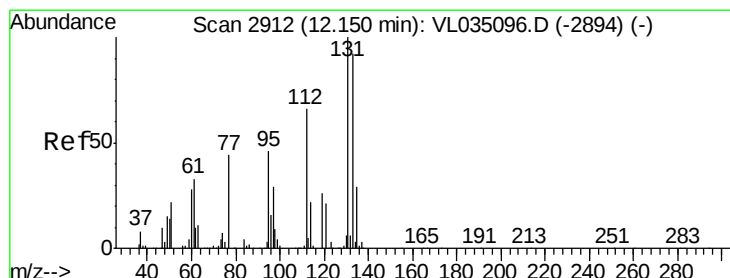
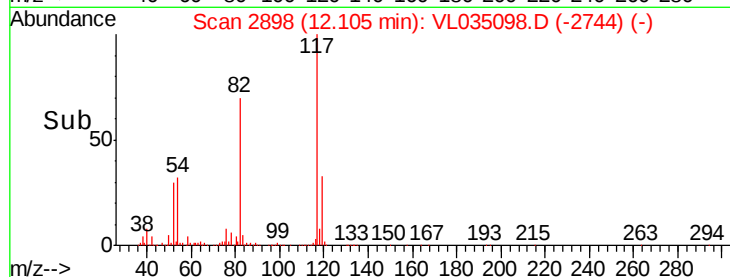
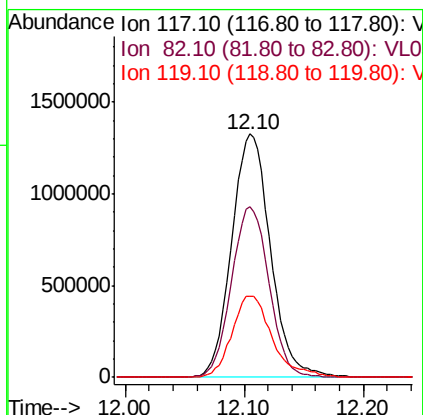
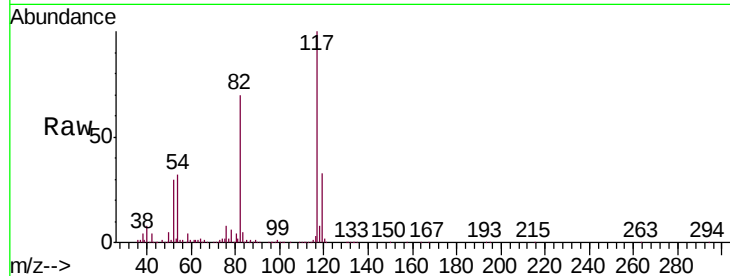




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.10 min Scan# 2898  
Delta R.T. -0.01 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

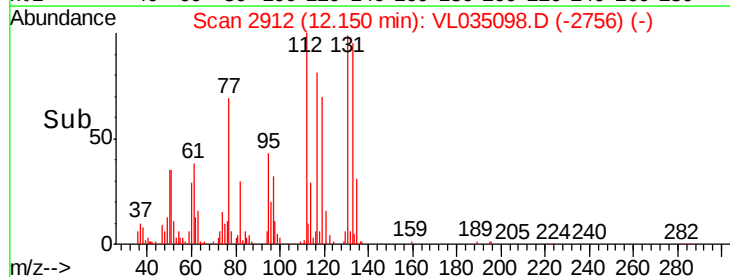
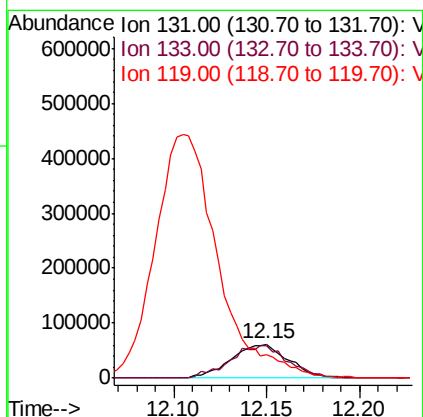
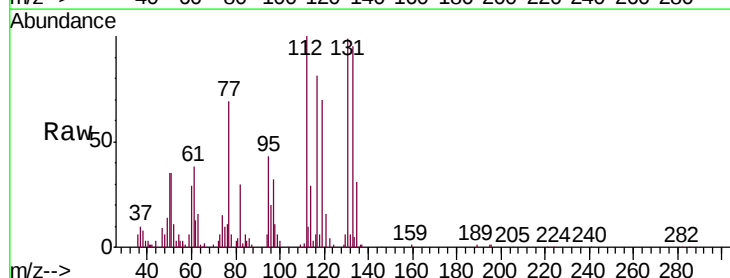
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

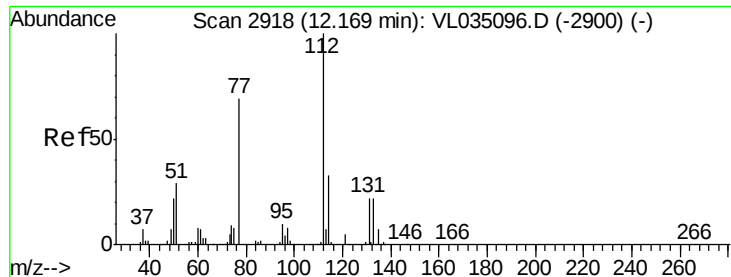
Tgt Ion:117 Resp: 2998042  
Ion Ratio Lower Upper  
117 100  
82 68.2 50.4 75.6  
119 34.8 25.4 38.0



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.977 ppbv  
RT: 12.15 min Scan# 2912  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion:131 Resp: 130655  
Ion Ratio Lower Upper  
131 100  
133 99.6 76.2 114.4  
119 799.5 114.6 172.0#

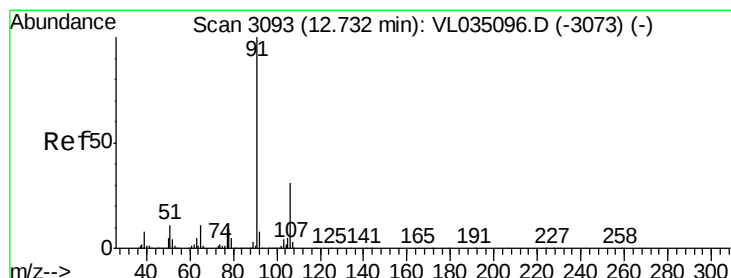
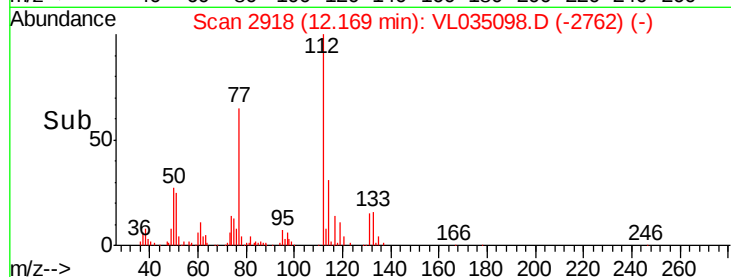
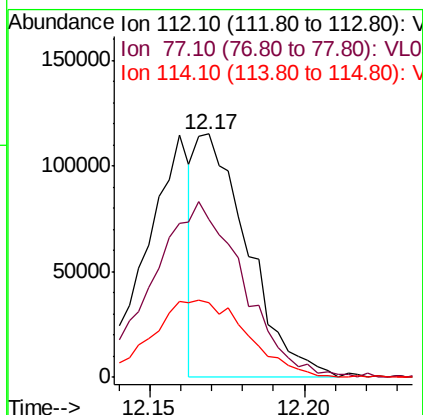
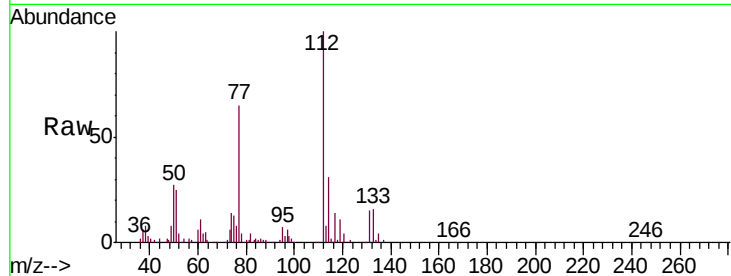




#57  
Chlorobenzene  
Concen: 0.574 ppbv  
RT: 12.17 min Scan# 2918  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

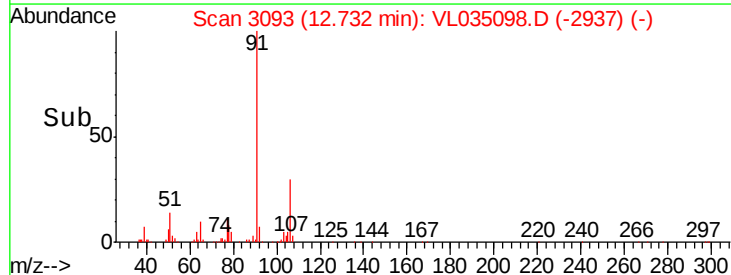
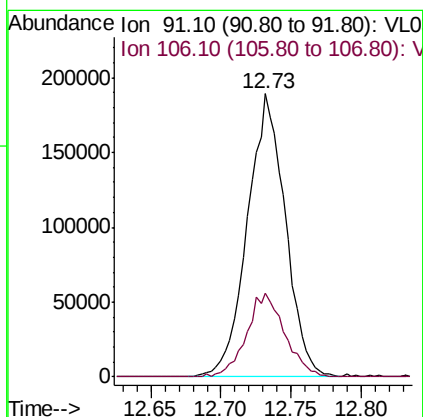
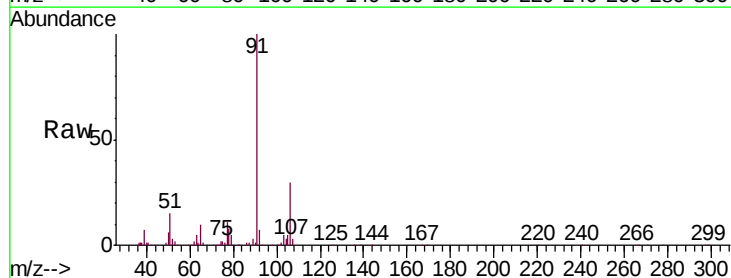
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

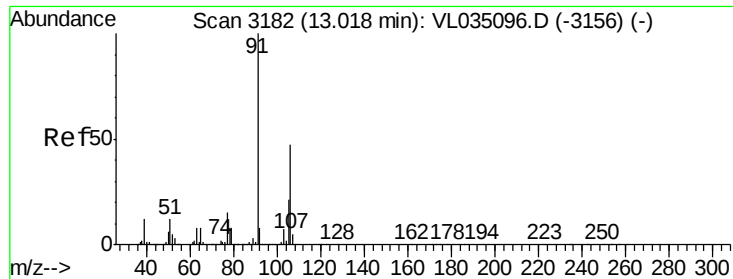
Tgt Ion: 112 Resp: 135129  
Ion Ratio Lower Upper  
112 100  
77 63.6 56.7 85.1  
114 30.8 29.3 35.9



#58  
Ethyl Benzene  
Concen: 0.974 ppbv  
RT: 12.73 min Scan# 3093  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 91 Resp: 355579  
Ion Ratio Lower Upper  
91 100  
106 29.7 25.0 37.6

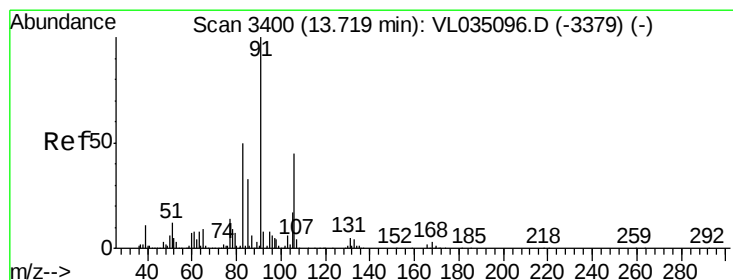
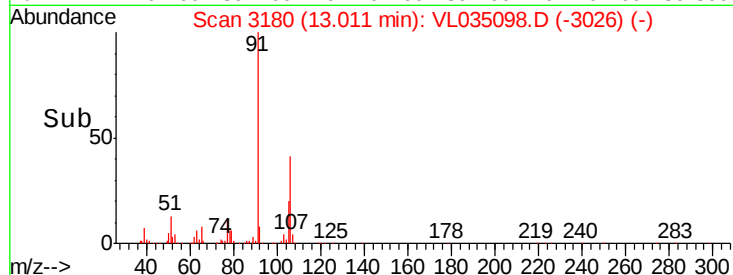
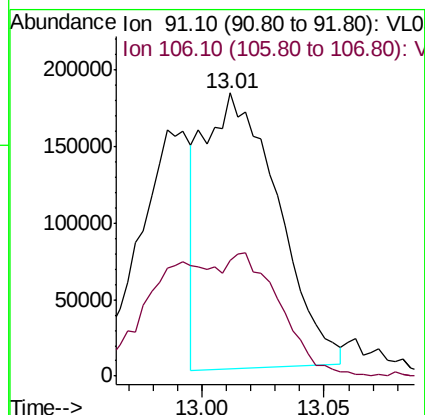
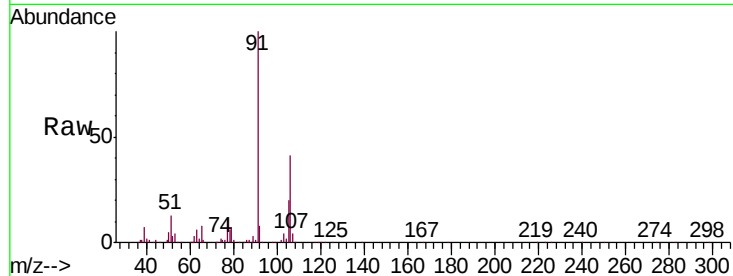




#59  
m/p-Xylene  
Concen: 1.190 ppbv  
RT: 13.01 min Scan# 3180  
Delta R.T. -0.01 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

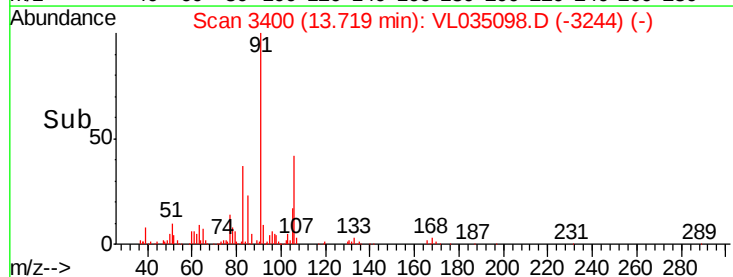
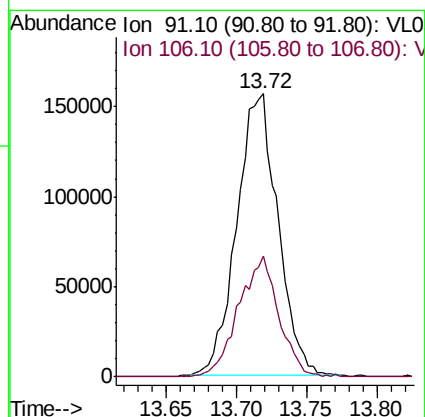
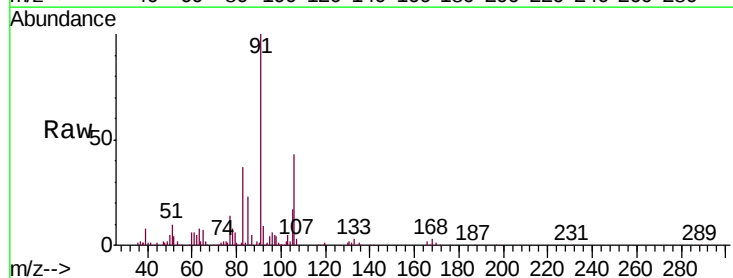
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

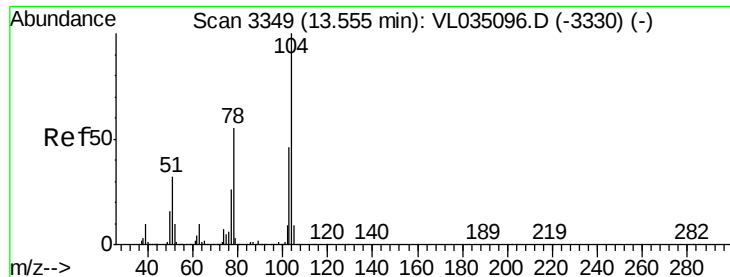
Tgt Ion: 91 Resp: 382995  
Ion Ratio Lower Upper  
91 100  
106 74.6 36.5 54.7#



#60  
o-Xylene  
Concen: 1.004 ppbv  
RT: 13.72 min Scan# 3400  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 91 Resp: 319004  
Ion Ratio Lower Upper  
91 100  
106 42.1 22.1 66.5





#61

Styrene

Concen: 0.918 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

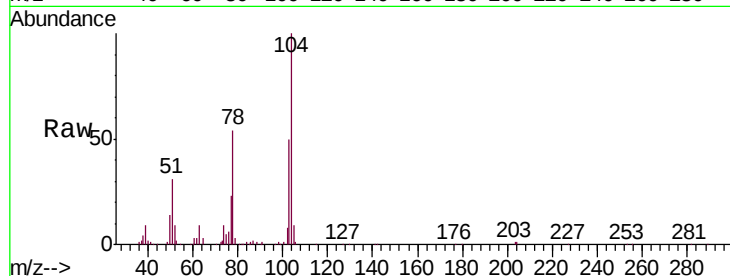
Tgt Ion:104 Resp: 184157

Ion Ratio Lower Upper

104 100

78 55.4 43.4 65.0

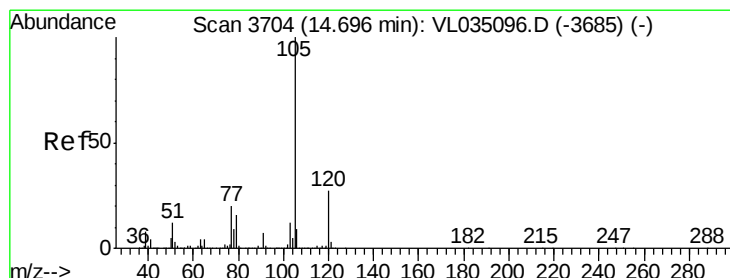
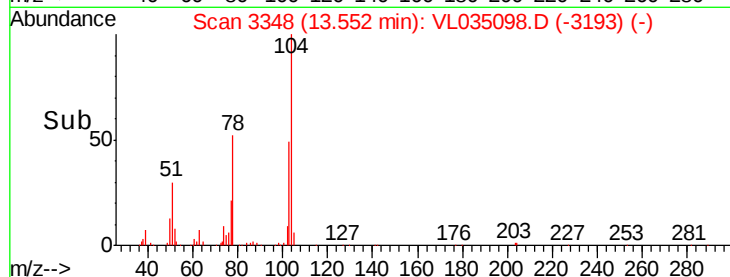
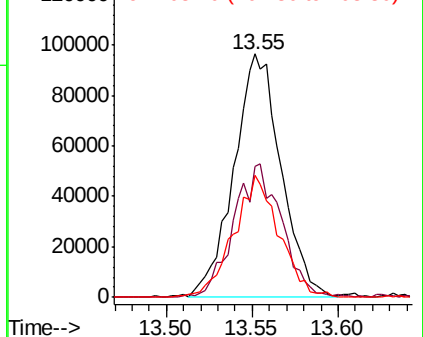
103 48.4 38.3 57.5



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: 1.033 ppbv

RT: 14.69 min Scan# 3702

Delta R.T. -0.01 min

Lab File: VL035098.D

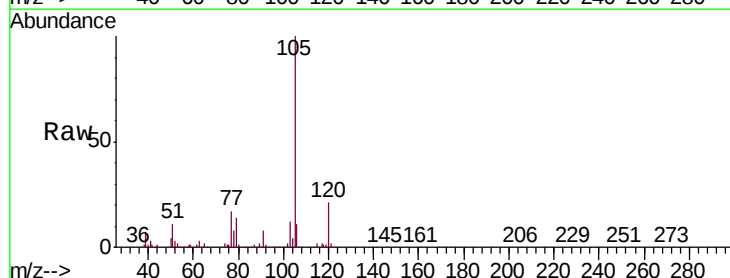
Acq: 19 Jun 2020 17:13

Tgt Ion:105 Resp: 489212

Ion Ratio Lower Upper

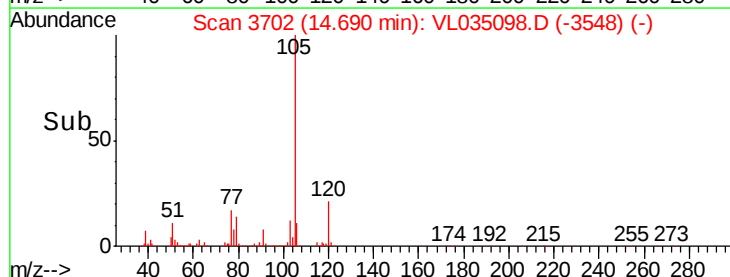
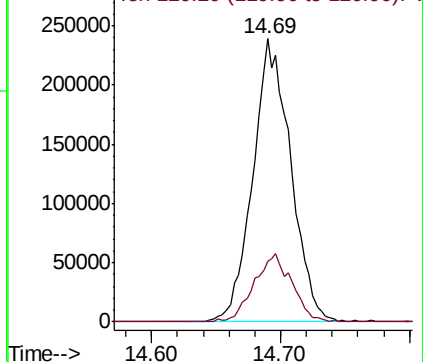
105 100

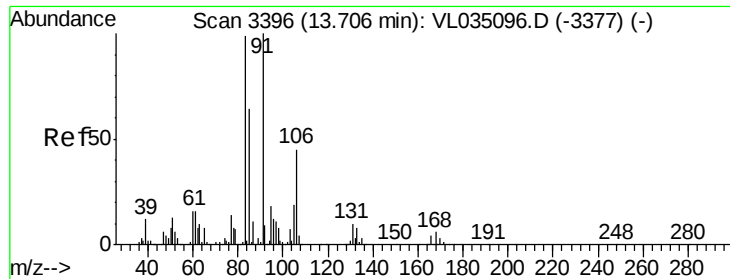
120 24.1 20.8 31.2



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: 1.004 ppbv

RT: 13.70 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

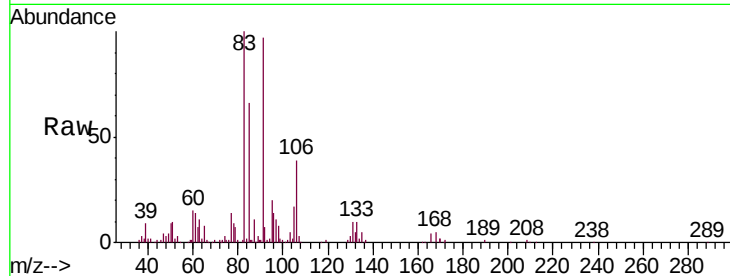
Tgt Ion: 83 Resp: 252293

Ion Ratio Lower Upper

83 100

131 8.9 4.7 14.0

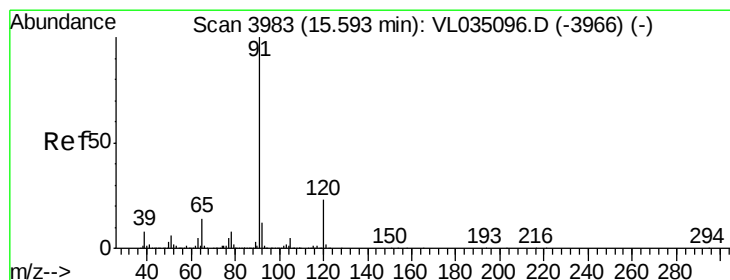
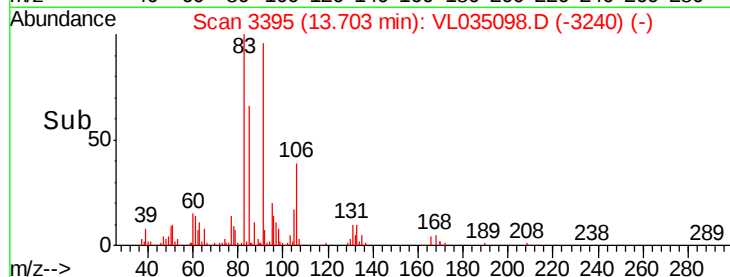
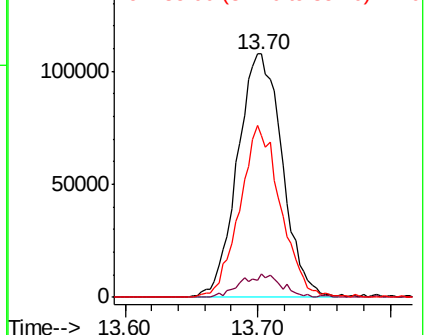
85 64.5 32.4 97.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.962 ppbv

RT: 15.59 min Scan# 3981

Delta R.T. -0.01 min

Lab File: VL035098.D

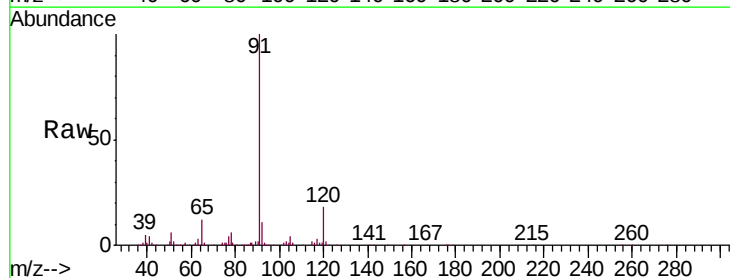
Acq: 19 Jun 2020 17:13

Tgt Ion: 120 Resp: 117113

Ion Ratio Lower Upper

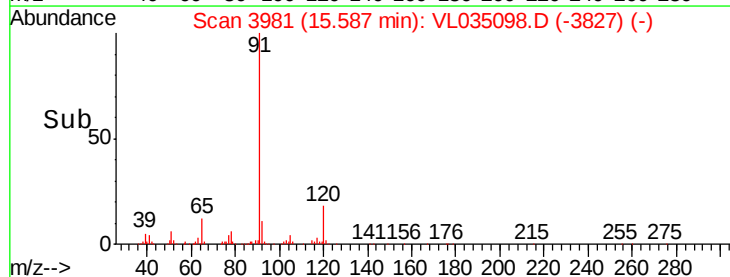
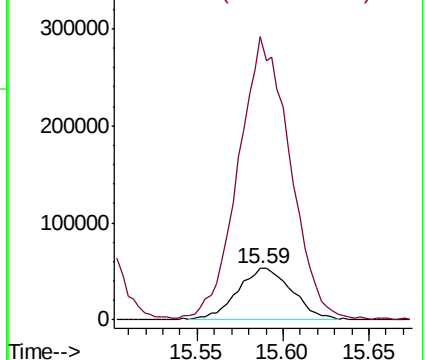
120 100

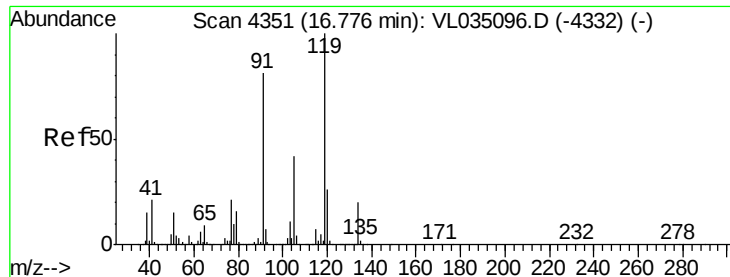
91 522.1 367.9 551.9



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

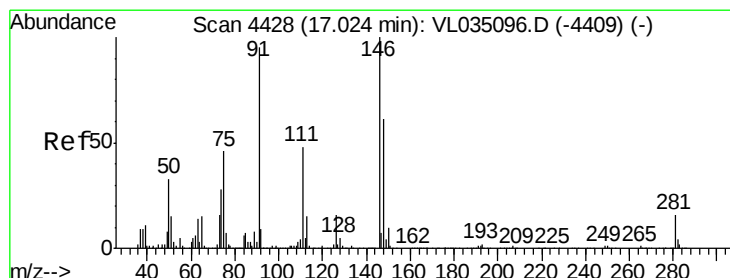
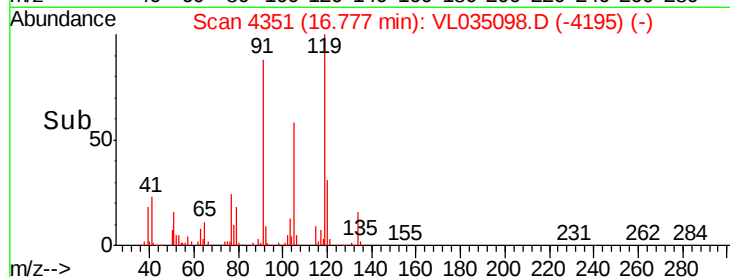
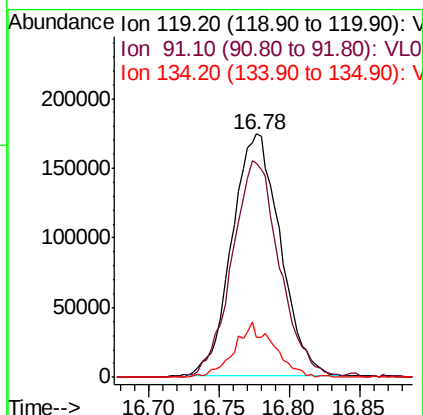
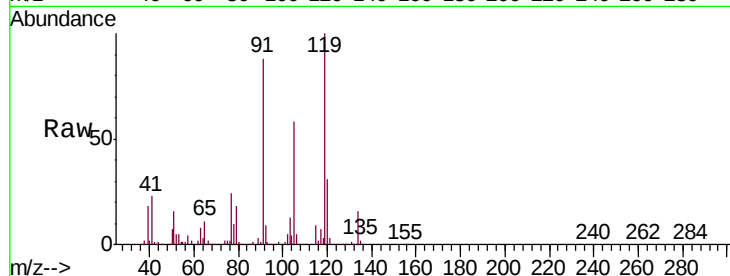




#65  
tert-Butylbenzene  
Concen: 1.008 ppbv  
RT: 16.78 min Scan# 4351  
Delta R.T. 0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

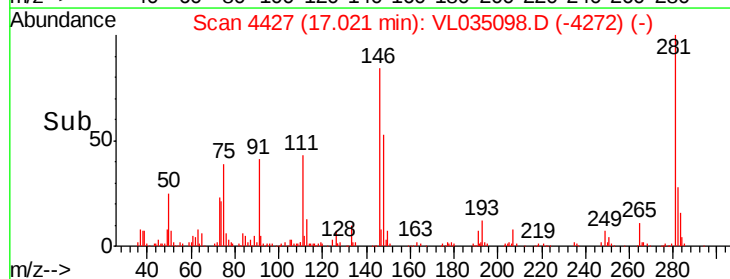
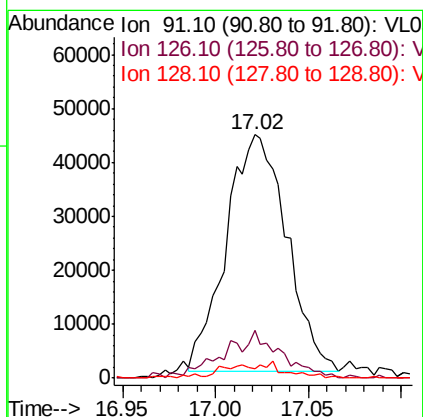
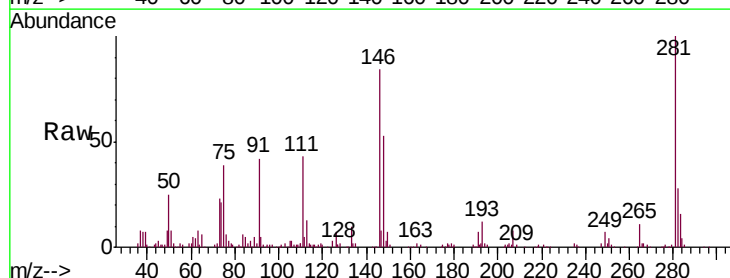
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC001

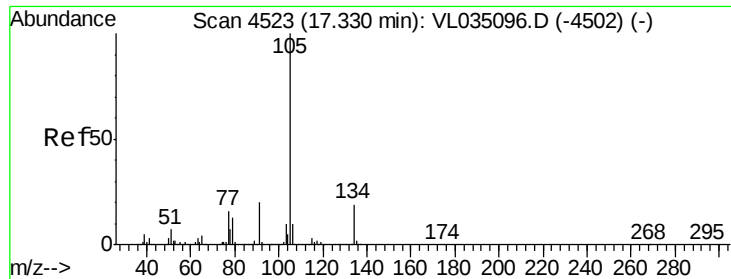
Tgt Ion: 119 Resp: 415307  
Ion Ratio Lower Upper  
119 100  
91 88.8 67.6 101.4  
134 19.0 15.7 23.5



#66  
Benzyl Chloride  
Concen: 0.724 ppbv  
RT: 17.02 min Scan# 4427  
Delta R.T. -0.00 min  
Lab File: VL035098.D  
Acq: 19 Jun 2020 17:13

Tgt Ion: 91 Resp: 98909  
Ion Ratio Lower Upper  
91 100  
126 19.4 13.5 20.3  
128 6.7 4.3 6.5#

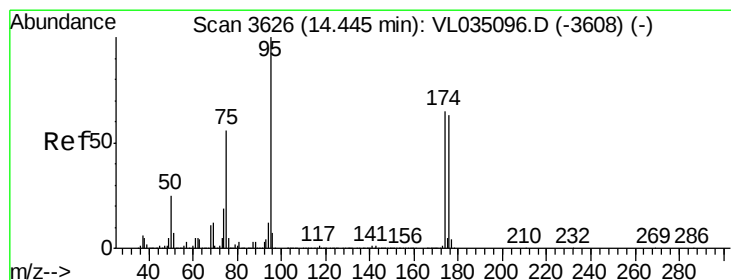
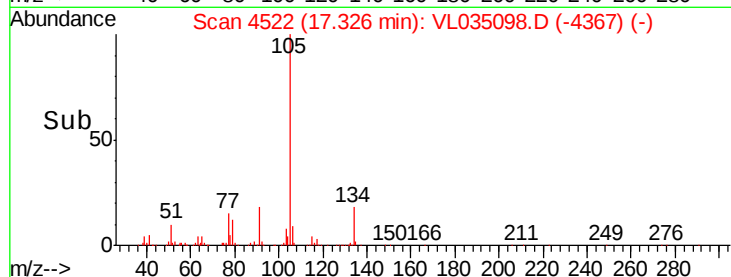
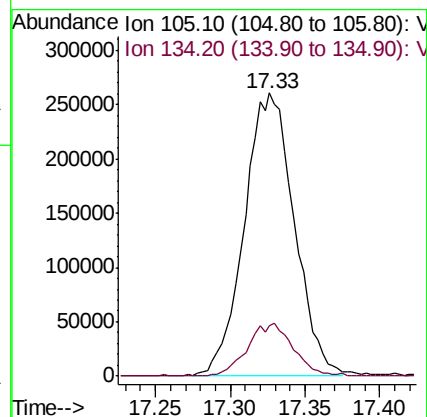
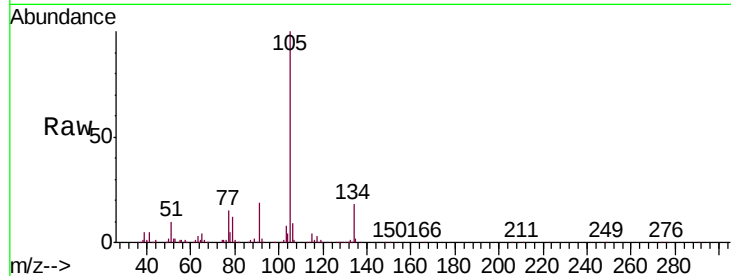




#67  
 sec-Butylbenzene  
 Concen: 1.020 ppbv  
 RT: 17.33 min Scan# 4522  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

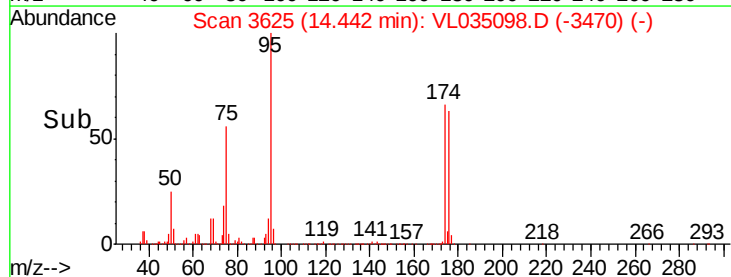
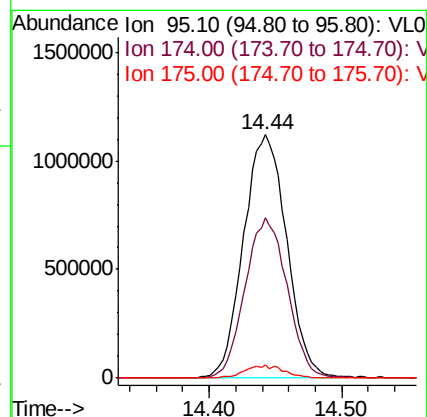
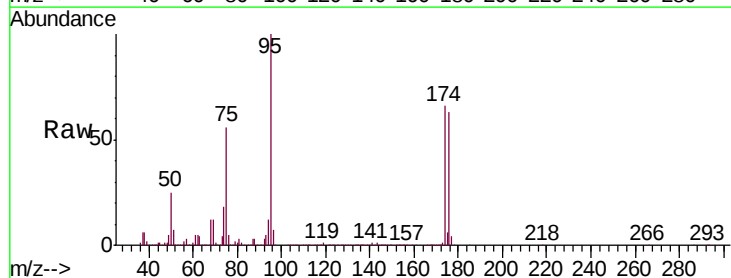
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

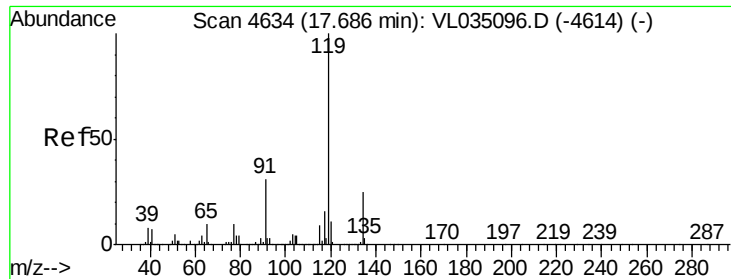
Tgt Ion: 105 Resp: 598886  
 Ion Ratio Lower Upper  
 105 100  
 134 17.4 14.7 22.1



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.448 ppbv  
 RT: 14.44 min Scan# 3625  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

Tgt Ion: 95 Resp: 2525424  
 Ion Ratio Lower Upper  
 95 100  
 174 64.9 52.2 78.2  
 175 4.8 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.987 ppbv

RT: 17.68 min Scan# 4633

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

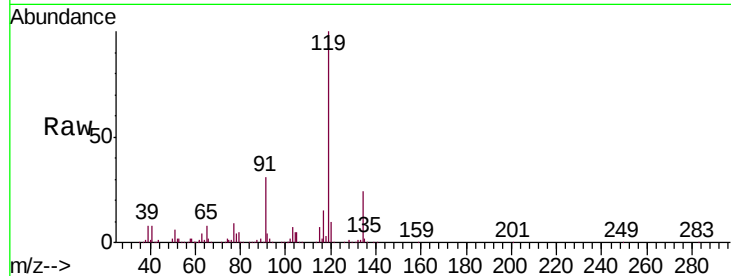
Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

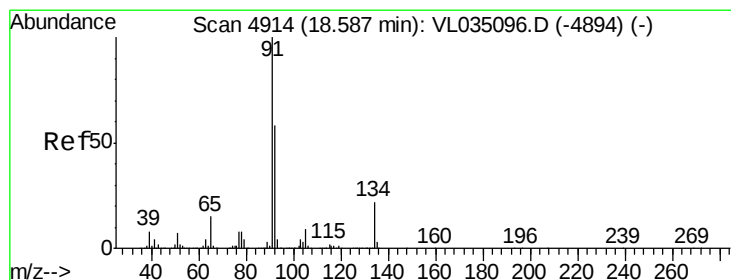
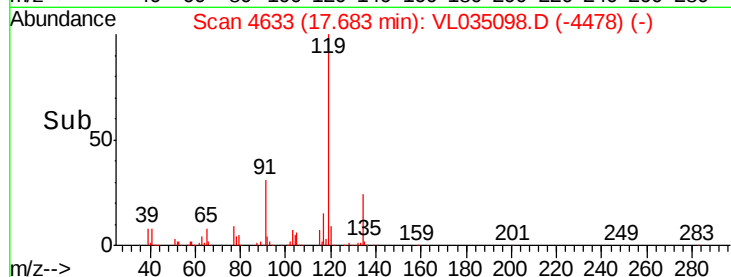
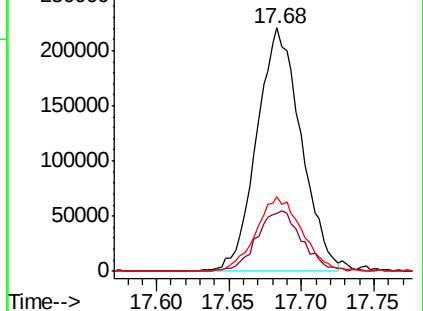
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 119   | Resp: | 468680 |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 134      | 25.6  | 20.4  | 30.6   |
| 91       | 32.2  | 24.5  | 36.7   |



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: 1.015 ppbv

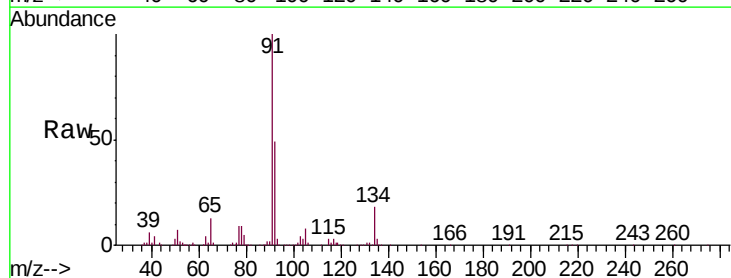
RT: 18.58 min Scan# 4913

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

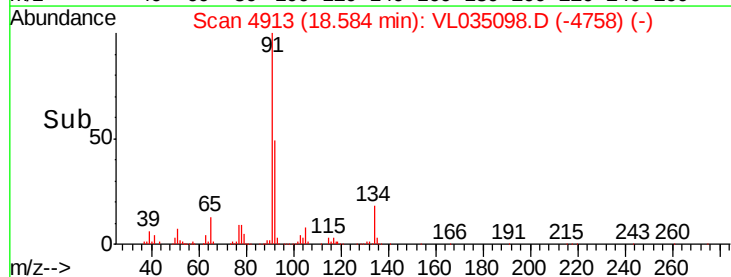
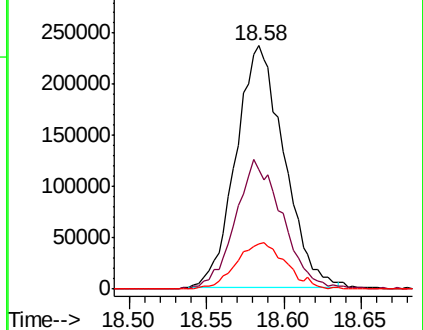
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 512079 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 52.7  | 44.4  | 66.6   |
| 134      | 20.0  | 18.0  | 27.0   |

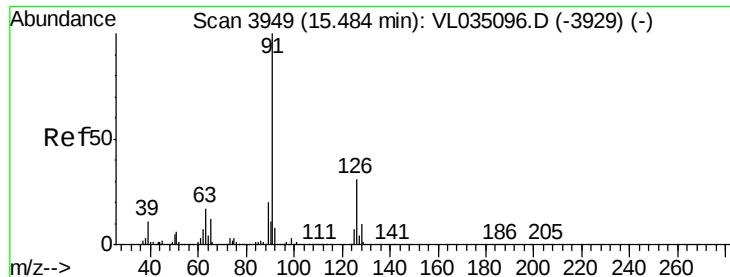


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V

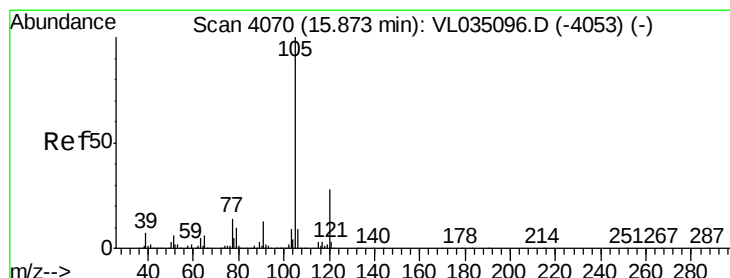
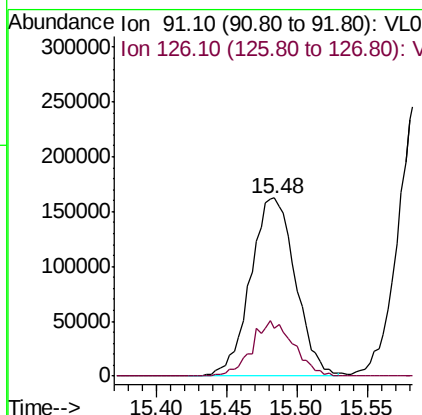
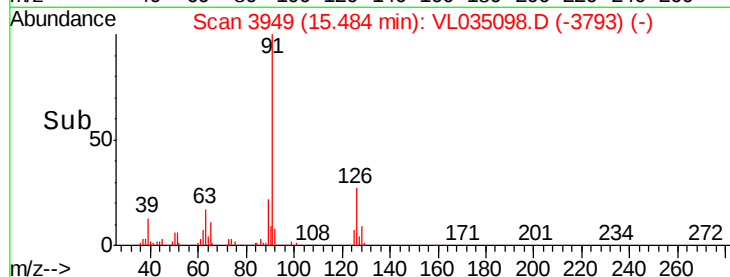
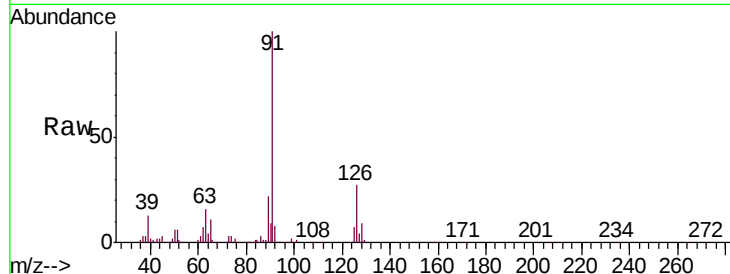




#71  
 2-Chlorotoluene  
 Concen: 1.010 ppbv  
 RT: 15.48 min Scan# 3949  
 Delta R.T. 0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

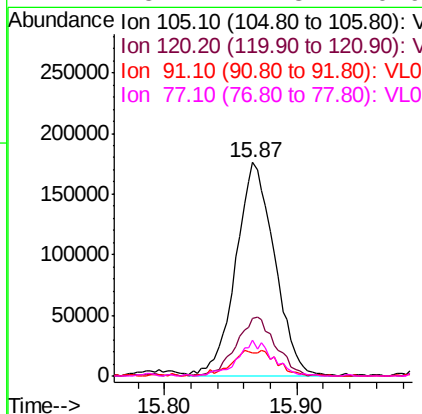
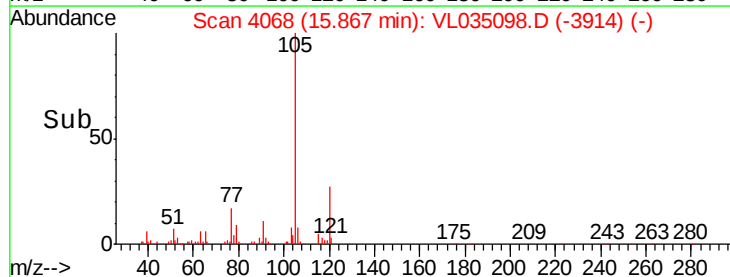
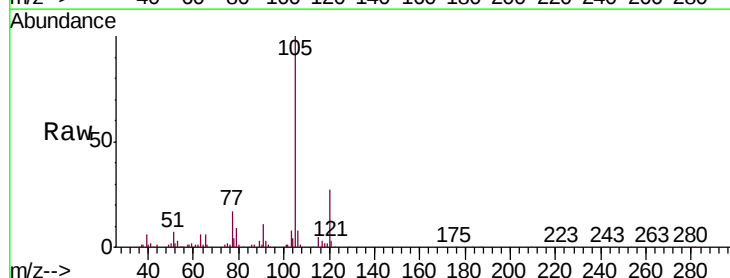
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

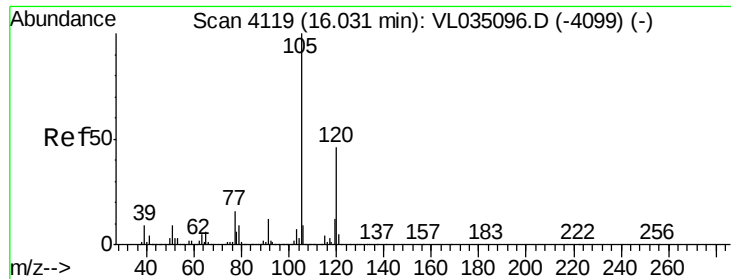
Tgt Ion: 91 Resp: 361459  
 Ion Ratio Lower Upper  
 91 100  
 126 28.7 12.0 48.0



#72  
 4-Ethyltoluene  
 Concen: 1.004 ppbv  
 RT: 15.87 min Scan# 4068  
 Delta R.T. -0.01 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

Tgt Ion: 105 Resp: 356450  
 Ion Ratio Lower Upper  
 105 100  
 120 28.4 23.4 35.0  
 91 14.0 10.6 16.0  
 77 15.4 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 0.966 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

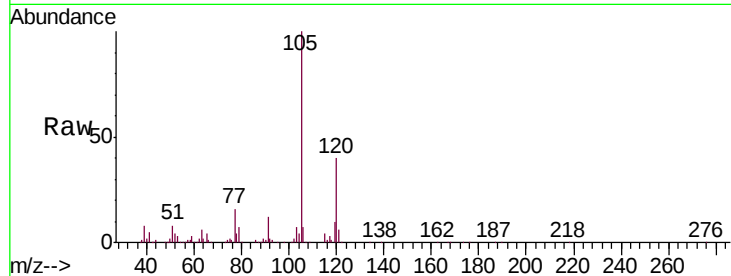
VSTDICCC001

Tgt Ion:105 Resp: 332497

Ion Ratio Lower Upper

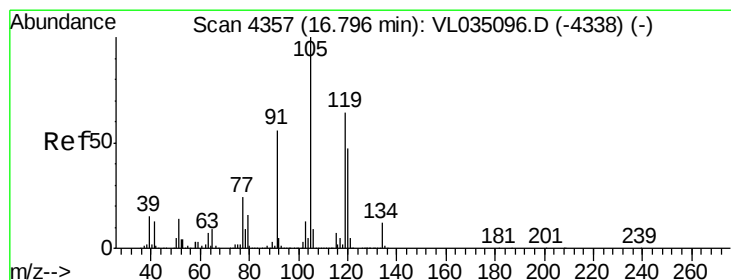
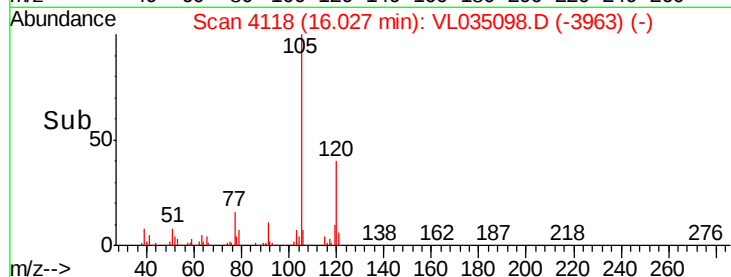
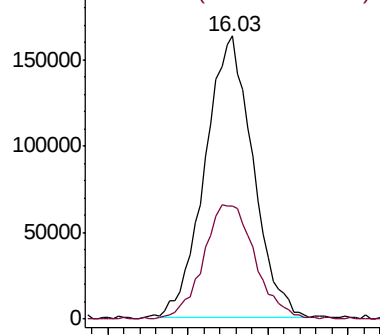
105 100

120 39.5 37.0 55.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.026 ppbv

RT: 16.79 min Scan# 4355

Delta R.T. -0.01 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Tgt Ion:105 Resp: 385476

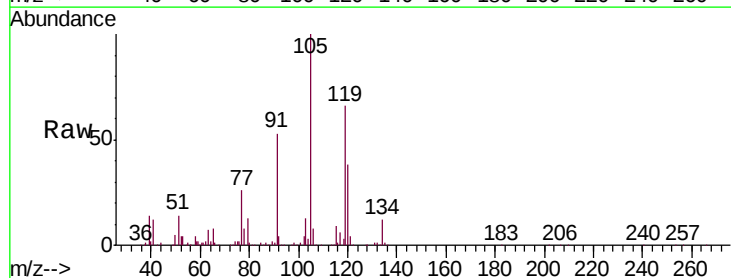
Ion Ratio Lower Upper

105 100

120 37.4 37.9 56.9#

91 52.3 46.0 69.0

77 25.7 19.4 29.2

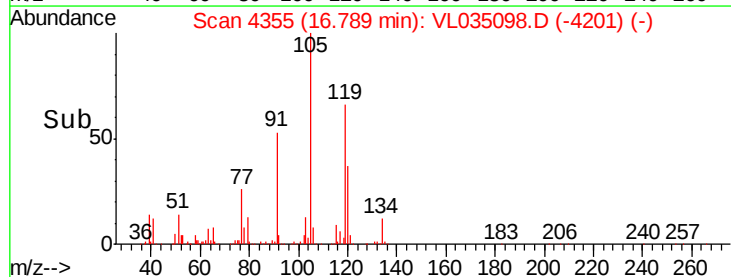
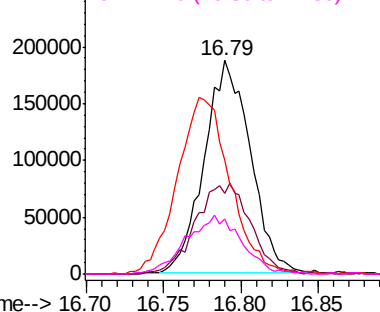


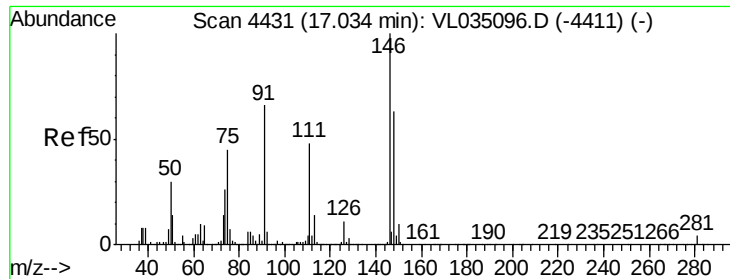
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 1.069 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

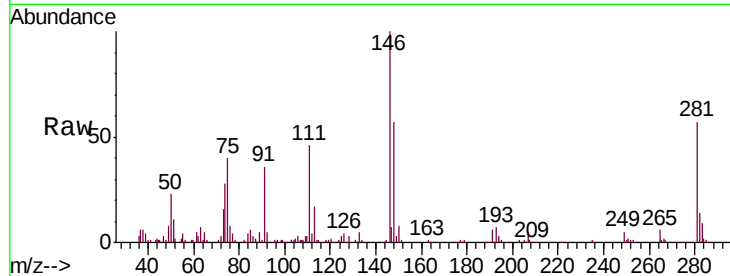
Tgt Ion:146 Resp: 236781

Ion Ratio Lower Upper

146 100

111 48.9 24.1 72.4

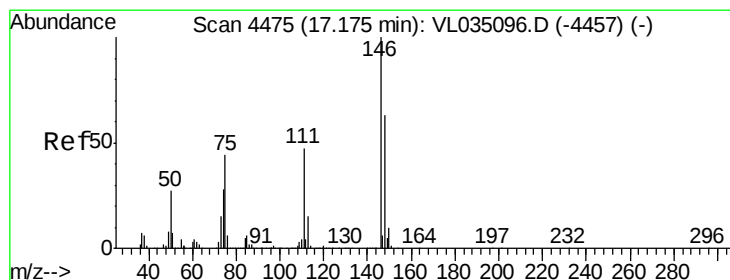
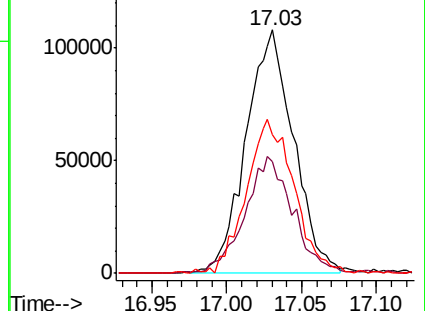
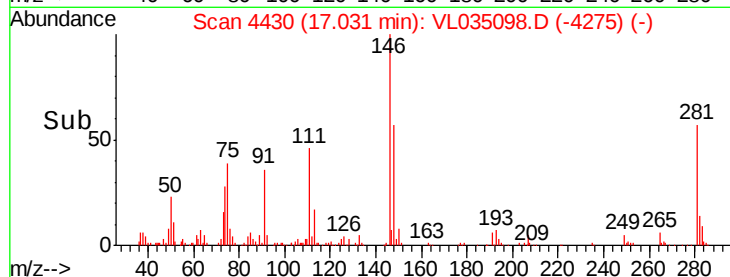
148 64.3 32.3 96.8



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: 1.035 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. 0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

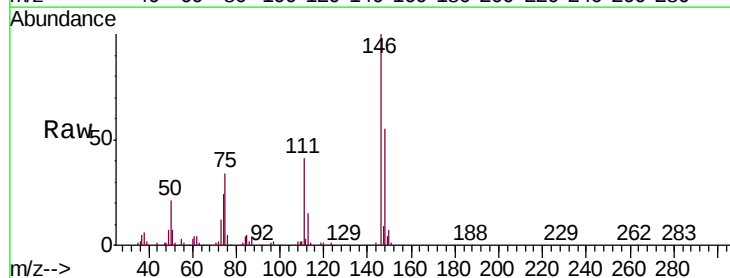
Tgt Ion:146 Resp: 217615

Ion Ratio Lower Upper

146 100

111 46.3 23.5 70.5

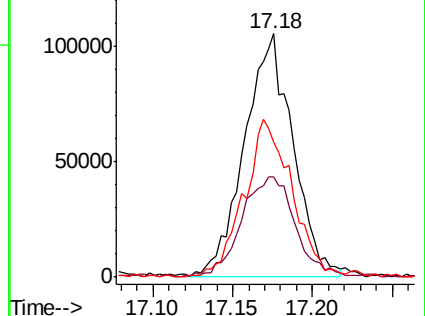
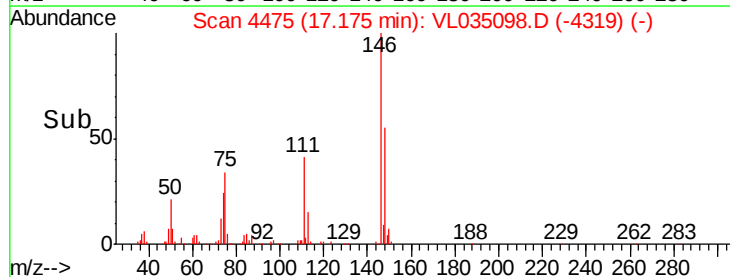
148 65.9 32.0 96.2

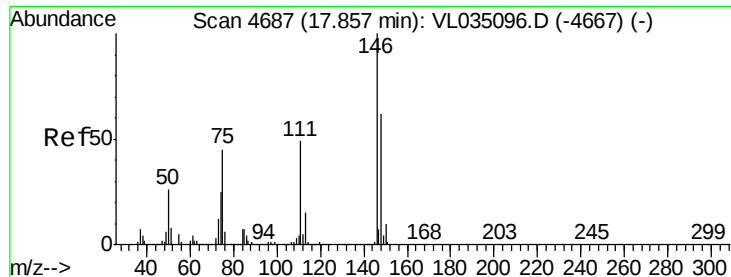


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

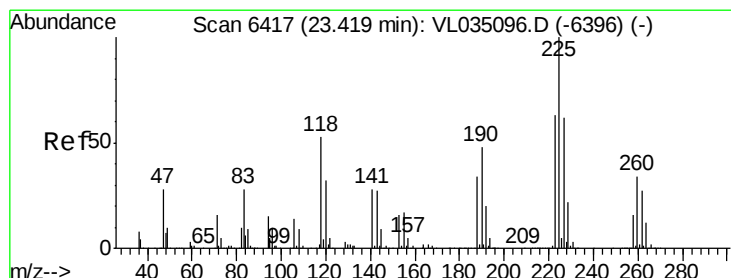
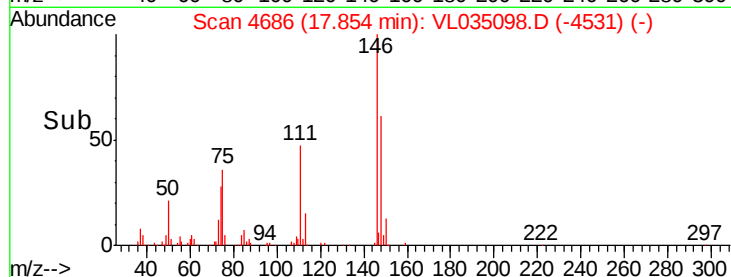
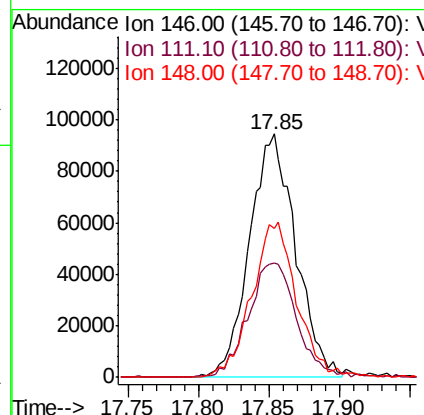
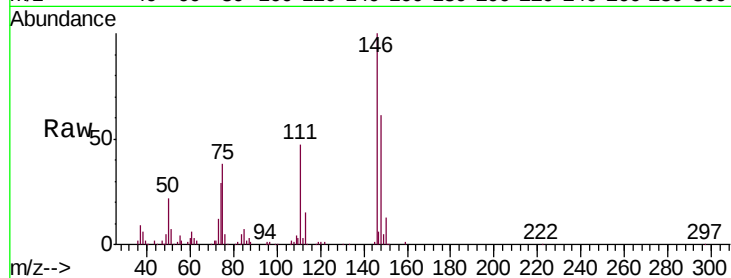




#77  
 1,2-Dichlorobenzene  
 Concen: 1.040 ppbv  
 RT: 17.85 min Scan# 4686  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

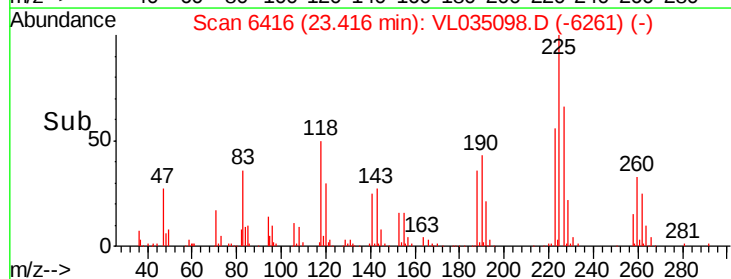
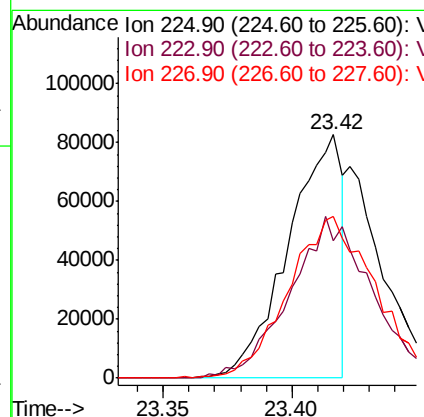
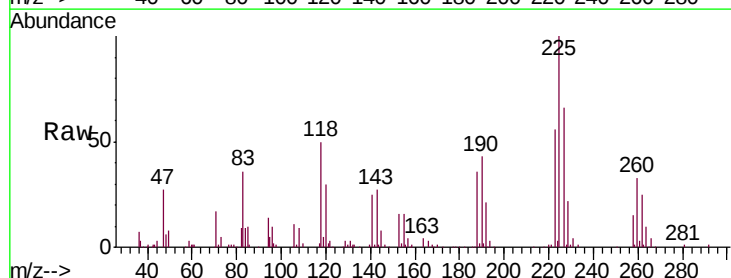
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

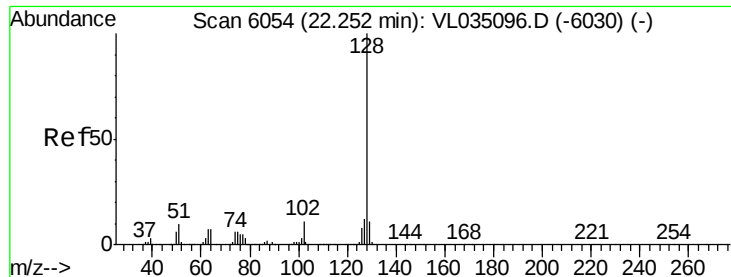
Tgt Ion:146 Resp: 215830  
 Ion Ratio Lower Upper  
 146 100  
 111 49.4 25.0 75.0  
 148 62.9 32.3 96.8



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.675 ppbv  
 RT: 23.42 min Scan# 6416  
 Delta R.T. -0.00 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

Tgt Ion:225 Resp: 119980  
 Ion Ratio Lower Upper  
 225 100  
 223 100.2 51.4 77.0#  
 227 107.1 51.8 77.8#





#79

Naphthalene

Concen: 1.078 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. 0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC001

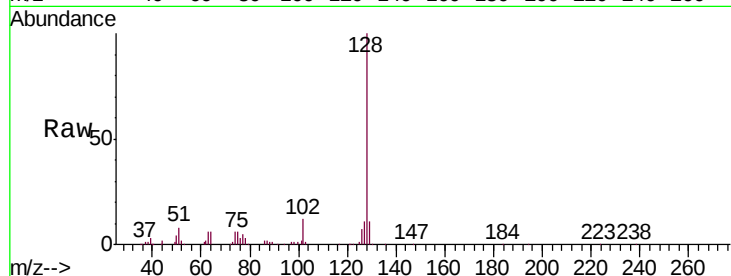
Tgt Ion:128 Resp: 312539

Ion Ratio Lower Upper

128 100

127 11.0 9.9 14.9

129 11.1 9.0 13.4



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

150000

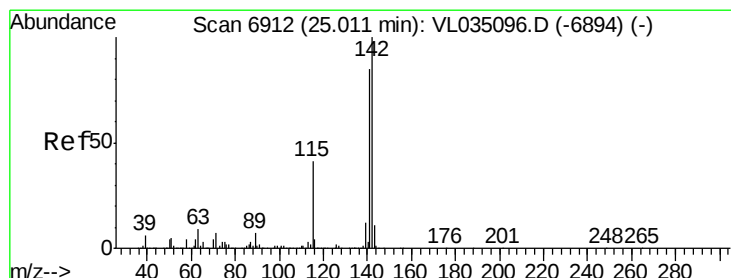
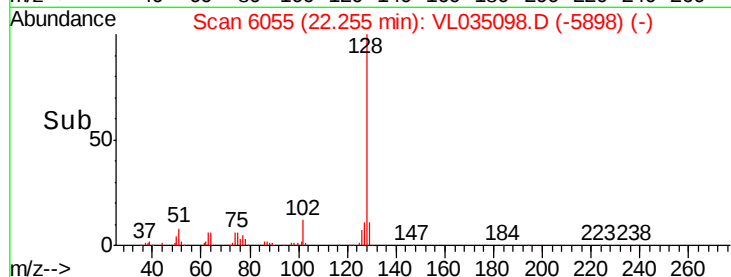
100000

50000

0

22.20 22.26 22.30

Time-->



#80

Naphthalene, 2-methyl-

Concen: 1.289 ppbv

RT: 25.01 min Scan# 6911

Delta R.T. -0.00 min

Lab File: VL035098.D

Acq: 19 Jun 2020 17:13

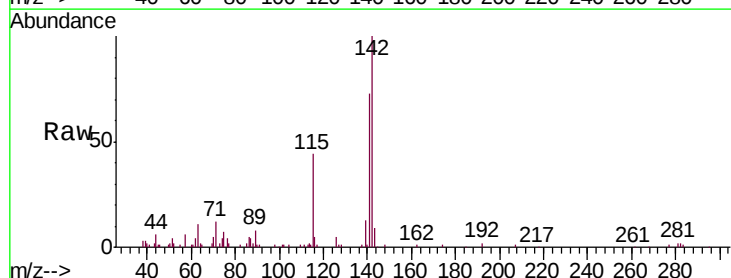
Tgt Ion:142 Resp: 94083

Ion Ratio Lower Upper

142 100

141 83.3 67.5 101.3

115 43.9 33.8 50.8



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

60000

50000

40000

30000

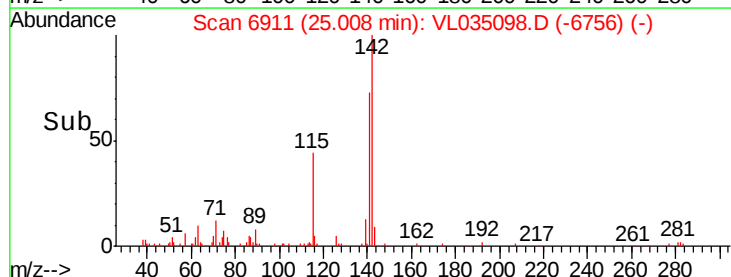
20000

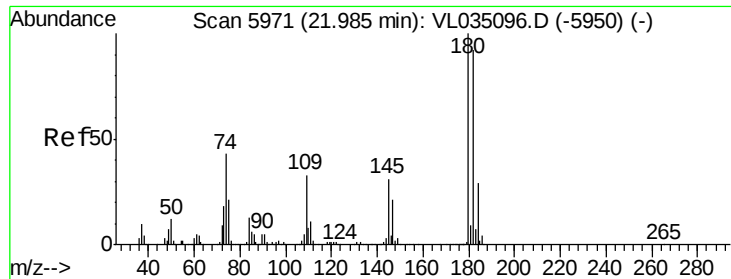
10000

0

24.90 25.01 25.10 25.20

Time-->





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.658 ppbv  
 RT: 21.98 min Scan# 5968  
 Delta R.T. -0.01 min  
 Lab File: VL035098.D  
 Acq: 19 Jun 2020 17:13

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC001

Tgt Ion:180 Resp: 116333  
 Ion Ratio Lower Upper  
 180 100  
 182 160.8 77.9 116.9#  
 184 50.2 24.6 37.0#

