

Data File : VL036070.D  
Acq On : 7 Dec 2020 16:17  
Operator : SY/AP  
Sample : VSTDIC015  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Quant Time: Dec 07 16:51:11 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL120720AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Dec 07 13:39:30 2020  
QLast Update : Mon Dec 07 13:39:30 2020  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 1232343  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 2876604  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 2864618  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 14.45  | 95    | 2214030  | 10.12    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.20% |

| Target Compounds               |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.06 | 85  | 1703883 | 7.942  | ppbv   | 100    |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 2037453 | 14.014 | ppbv   | 99     |
| 4) Chloromethane               | 3.15 | 50  | 1006357 | 14.143 | ppbv   | 98     |
| 5) Vinyl Chloride              | 3.27 | 62  | 1055355 | 11.680 | ppbv   | 98     |
| 6) Bromomethane                | 3.48 | 94  | 569592  | 8.013  | ppbv   | 87     |
| 7) Chloroethane                | 3.57 | 64  | 376750  | 11.605 | ppbv   | 92     |
| 8) Dichlorotetrafluoroethane   | 3.20 | 85  | 2182940 | 8.629  | ppbv   | 100    |
| 9) Propene                     | 3.02 | 41  | 997500  | 19.648 | ppbv   | 96     |
| 10) Heptane                    | 8.15 | 43  | 2546105 | 18.379 | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 2450672 | 8.429  | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101 | 1658538 | 7.582  | ppbv   | 99     |
| 13) Ethanol                    | 3.62 | 45  | 146007  | 14.220 | ppbv   | 89     |
| 14) Bromoethene                | 3.75 | 108 | 681216  | 7.684  | ppbv   | 99     |
| 15) Acetone                    | 3.86 | 43  | 1969308 | 15.381 | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.34 | 39  | 1079178 | 19.179 | ppbv   | 100    |
| 17) tert-Butyl alcohol         | 4.31 | 59  | 1795011 | 12.791 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.30 | 96  | 739575  | 7.621  | ppbv   | 98     |
| 19) Isopropyl Alcohol          | 3.98 | 45  | 1137605 | 16.563 | ppbv # | 100    |
| 20) Methylene Chloride         | 4.36 | 84  | 669138  | 6.041  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.43 | 41  | 1372144 | 20.109 | ppbv   | 96     |
| 22) trans-1,2-Dichloroethene   | 4.90 | 96  | 728457  | 7.564  | ppbv   | 99     |
| 23) Vinyl Acetate              | 5.09 | 43  | 2898846 | 19.173 | ppbv # | 98     |
| 24) 1,1-Dichloroethane         | 5.03 | 63  | 2000746 | 11.585 | ppbv   | 98     |
| 25) Ethyl Acetate              | 5.70 | 43  | 4163406 | 16.169 | ppbv   | 99     |
| 26) Hexane                     | 5.71 | 57  | 1740803 | 12.734 | ppbv   | 98     |
| 27) Carbon Disulfide           | 4.56 | 76  | 2033451 | 10.212 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73  | 2714354 | 13.320 | ppbv   | 100    |
| 29) Chloroform                 | 5.78 | 83  | 2534119 | 9.809  | ppbv   | 99     |
| 30) Cyclohexane                | 7.15 | 84  | 1378016 | 10.677 | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene     | 5.57 | 61  | 1804193 | 14.417 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.53 | 97  | 2585531 | 10.917 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.26 | 43  | 2604322 | 26.413 | ppbv   | 100    |
| 35) Carbon Tetrachloride       | 7.04 | 117 | 2505644 | 16.660 | ppbv   | 98     |
| 36) Benzene                    | 6.92 | 78  | 3444432 | 17.507 | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.33 | 62  | 2115509 | 20.727 | ppbv   | 99     |
| 38) Trichloroethene            | 7.86 | 130 | 1130495 | 12.842 | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.64 | 63  | 1407528 | 18.673 | ppbv   | 99     |
| 40) 1,4-Dioxane                | 7.85 | 88  | 390522  | 15.537 | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.07 | 42  | 1551415 | 30.140 | ppbv   | 97     |
| 42) Bromodichloromethane       | 7.82 | 83  | 2794372 | 17.310 | ppbv   | 97     |
| 43) Methyl Methacrylate        | 8.04 | 69  | 1547119 | 21.586 | ppbv   | 99     |

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MSVOA\_L  
ClientSampleId :  
VSTDIC015

Quant Time: Dec 07 16:51:11 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL120720AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Mon Dec 07 13:39:30 2020  
QLast Update : Mon Dec 07 13:39:30 2020  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.89  | 57   | 5973879  | 20.483 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.30  | 75   | 1740328  | 25.690 | ppbv   | 100      |
| 46) cis-1,3-Dichloropropene   | 8.73  | 75   | 2026303  | 22.314 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.51  | 97   | 1337264  | 14.153 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.34 | 129  | 2183722  | 16.423 | ppbv   | 99       |
| 49) Bromoform                 | 13.07 | 173  | 1788277  | 18.128 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.77  | 43   | 4067437  | 27.140 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.16 | 43   | 3309588  | 30.519 | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.26 | 164  | 1133239  | 14.857 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 10.64 | 107  | 2000998  | 14.930 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.16 | 131  | 1619018  | 13.839 | ppbv   | 97       |
| 57) Chlorobenzene             | 12.18 | 112  | 2605712  | 12.330 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.74 | 91   | 5118197  | 18.064 | ppbv   | 94       |
| 59) m/p-Xylene                | 13.03 | 91   | 4289666  | 16.605 | ppbv # | 32       |
| 60) o-Xylene                  | 13.72 | 91   | 3944010  | 15.129 | ppbv   | 100      |
| 61) Styrene                   | 13.56 | 104  | 2772765  | 18.778 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.70 | 105  | 5781294  | 14.940 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.71 | 83   | 2566047  | 11.743 | ppbv   | 100      |
| 64) n-propylbenzene           | 15.60 | 120  | 1465853  | 14.389 | ppbv   | 96       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 4730990  | 14.583 | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.02 | 91   | 1549299  | 19.828 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.33 | 105  | 6567282  | 14.821 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.69 | 119  | 5355817  | 16.008 | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.58 | 91   | 5436662  | 16.412 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.49 | 91   | 4442182  | 16.687 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 4486117  | 16.714 | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 4127926  | 16.413 | ppbv   | 97       |
| 74) 1,2,4-Trimethylbenzene    | 16.80 | 105  | 4071969  | 14.512 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 2135458  | 12.589 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.17 | 146  | 2134113  | 13.311 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 2026276  | 13.023 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 23.41 | 225  | 1602445  | 18.734 | ppbv   | 99       |
| 79) Naphthalene               | 22.24 | 128  | 2742284  | 20.954 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 25.00 | 142  | 1139841  | 42.986 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 21.97 | 180  | 1624461  | 18.068 | ppbv # | 100      |

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

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Sample : VSTDICC015

Misc : 400mL/MSVOA L

ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC015

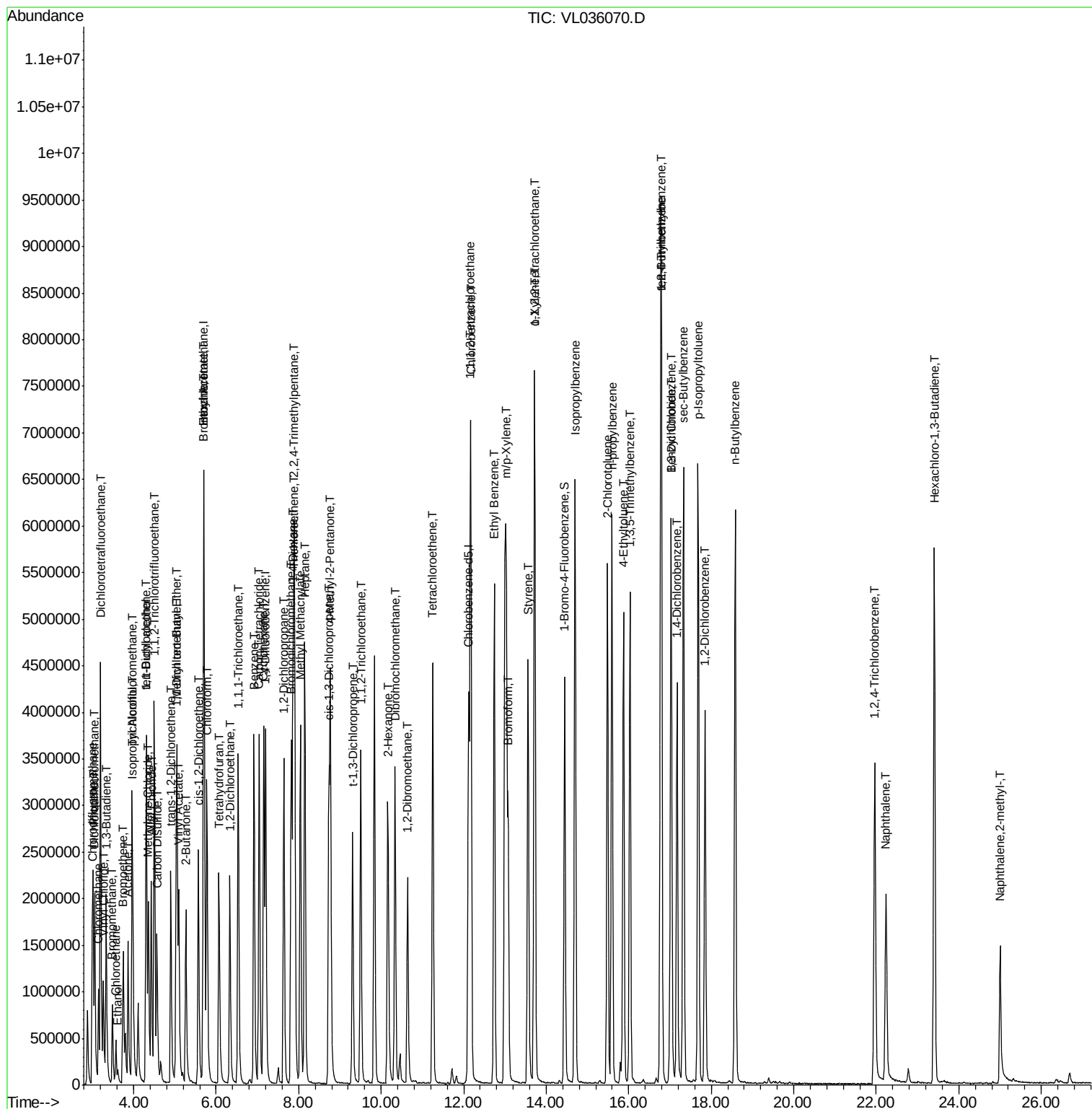
Quant Time: Dec 07 16:51:11 2020

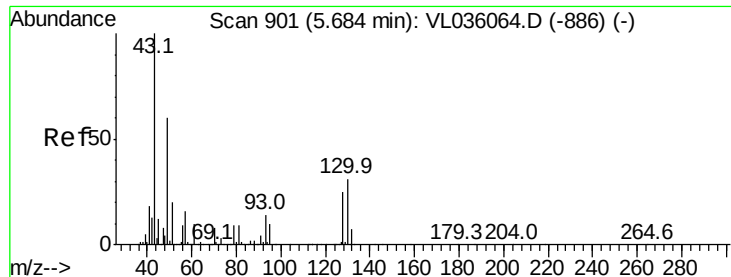
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A\_L\METHODS\VL120720AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Mon Dec 07 13:39:30 2020

QLast Update : Mon Dec 07 13:39:30 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

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Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

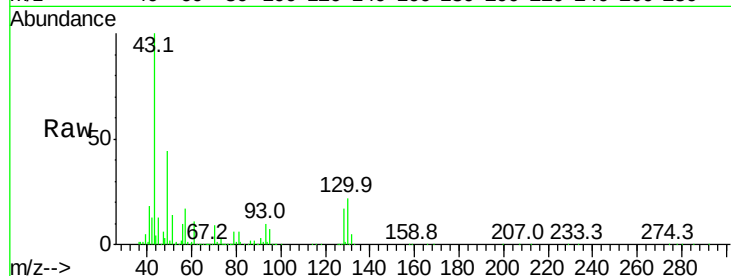
Tgt Ion: 49 Resp: 1232343

Ion Ratio Lower Upper

49 100

128 41.6 21.1 63.1

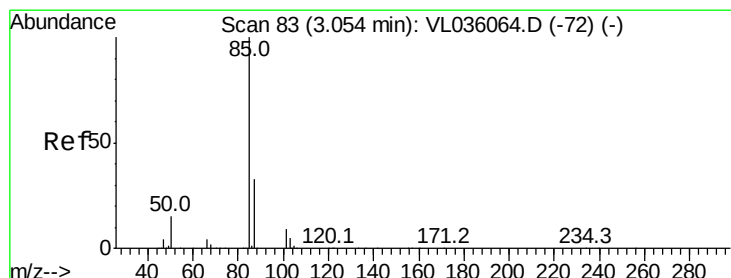
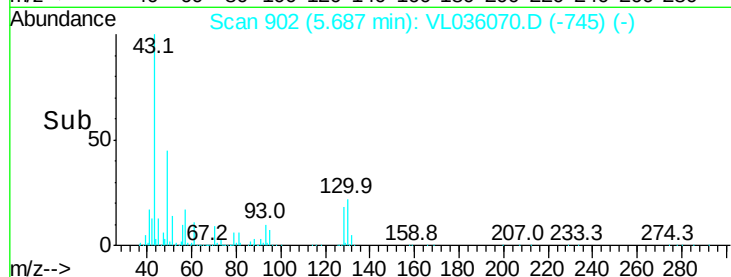
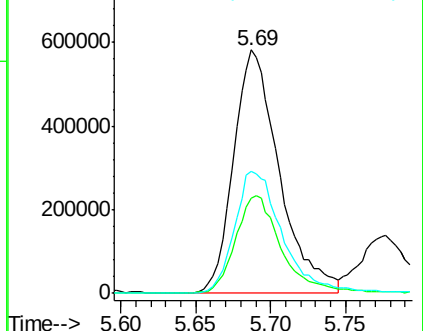
130 53.2 27.1 81.3



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: 7.942 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL036070.D

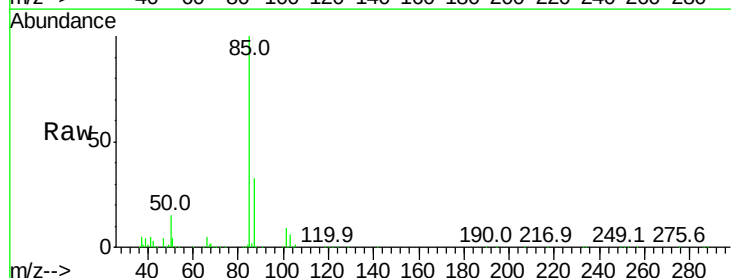
Acq: 7 Dec 2020 16:17

Tgt Ion: 85 Resp: 1703883

Ion Ratio Lower Upper

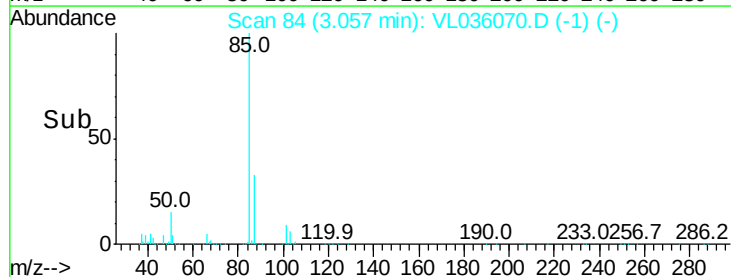
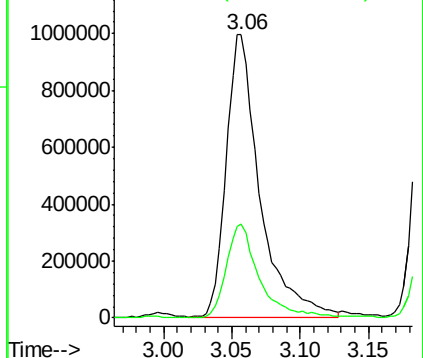
85 100

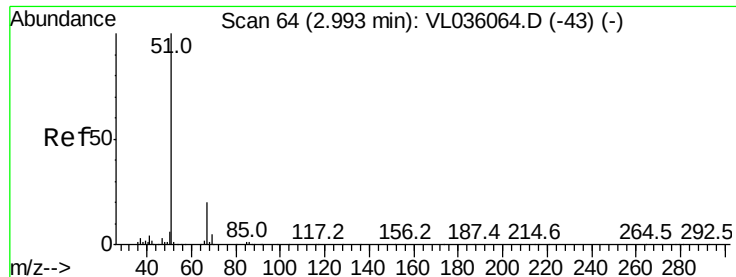
87 33.0 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 14.014 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

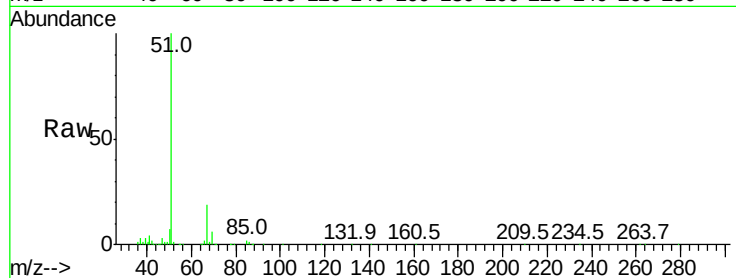
VSTDIC015

Tgt Ion: 51 Resp: 2037453

Ion Ratio Lower Upper

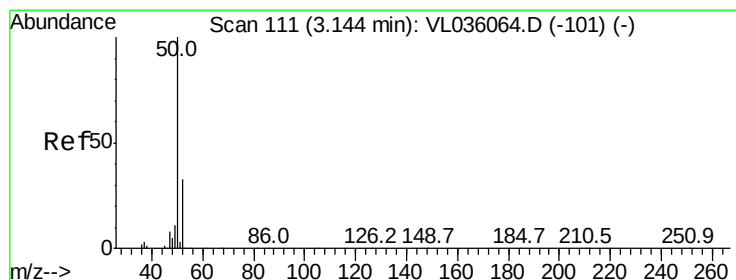
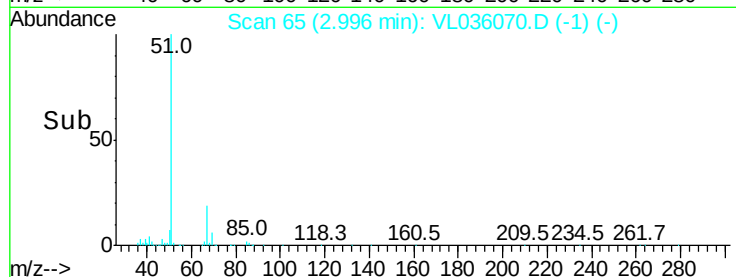
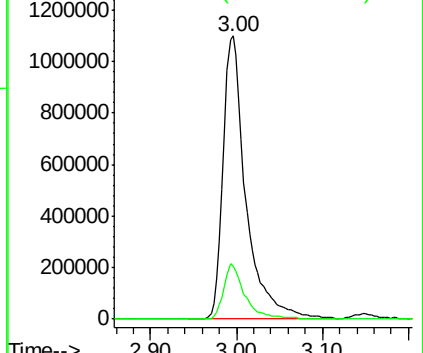
51 100

67 18.3 14.3 21.5



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 14.143 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL036070.D

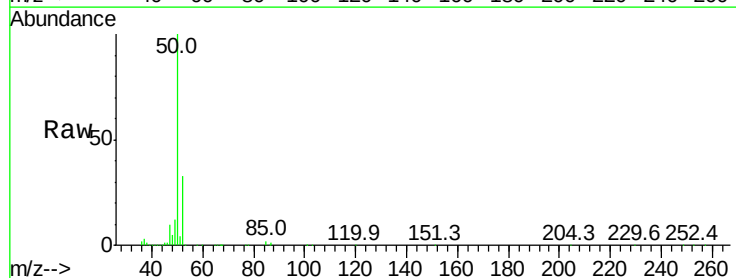
Acq: 7 Dec 2020 16:17

Tgt Ion: 50 Resp: 1006357

Ion Ratio Lower Upper

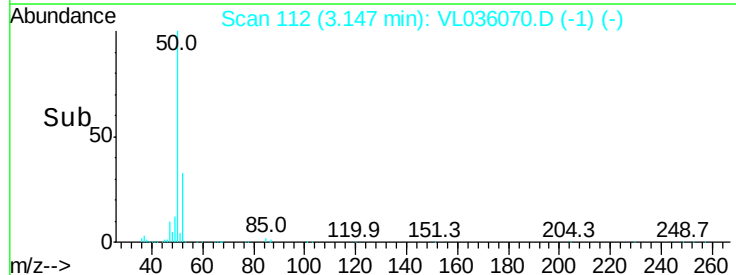
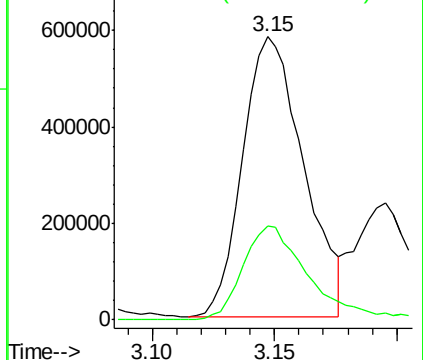
50 100

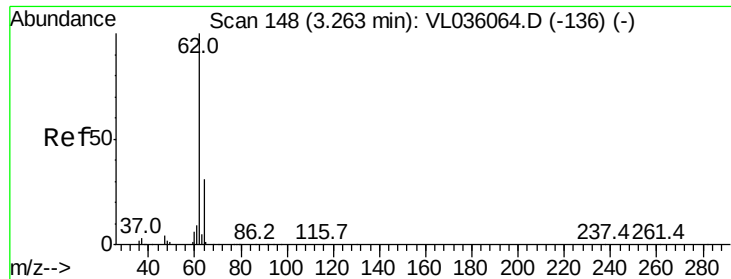
52 33.5 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 11.680 ppbv

RT: 3.27 min Scan# 149

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

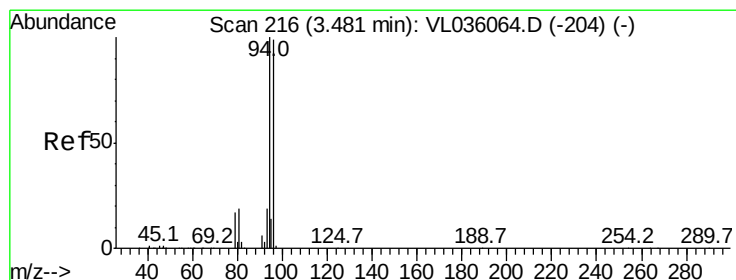
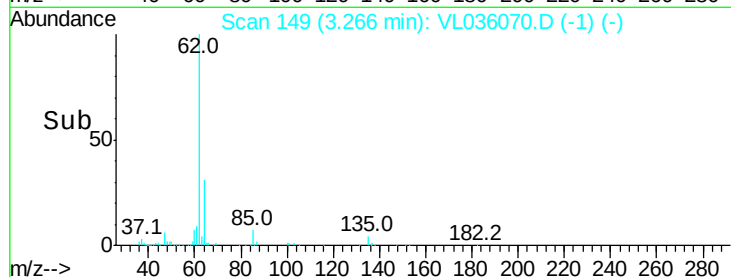
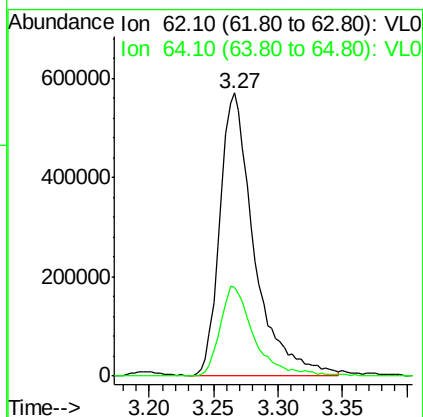
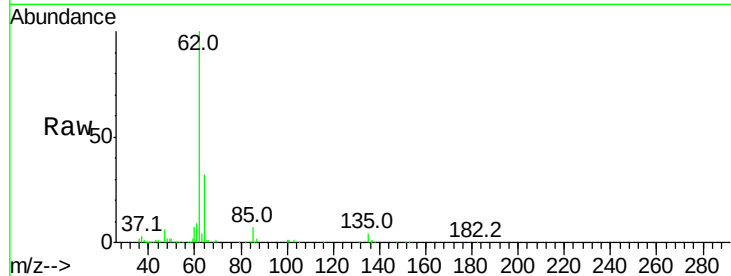
VSTDIC015

Tgt Ion: 62 Resp: 1055355

Ion Ratio Lower Upper

62 100

64 31.6 24.5 36.7



#6

Bromomethane

Concen: 8.013 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.00 min

Lab File: VL036070.D

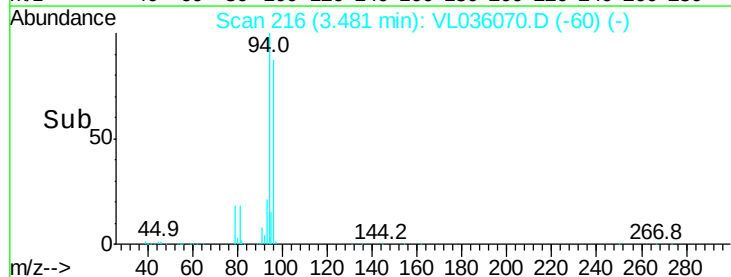
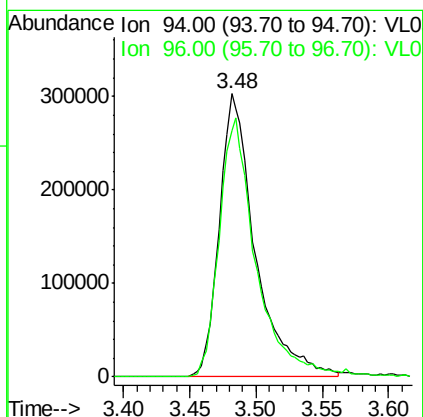
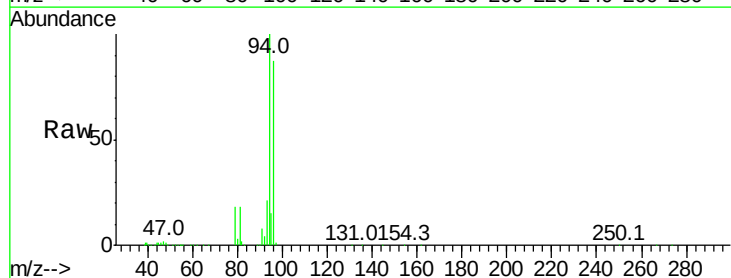
Acq: 7 Dec 2020 16:17

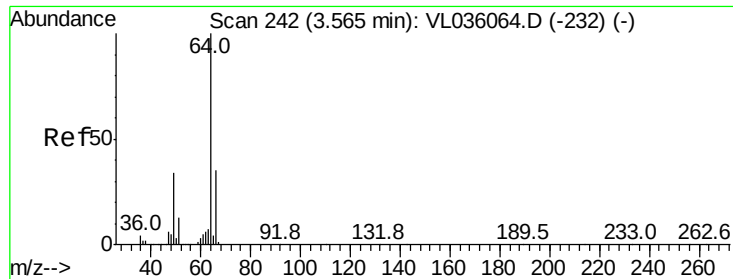
Tgt Ion: 94 Resp: 569592

Ion Ratio Lower Upper

94 100

96 86.7 79.4 119.0





#7

Chloroethane

Concen: 11.605 ppbv

RT: 3.57 min Scan# 243

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

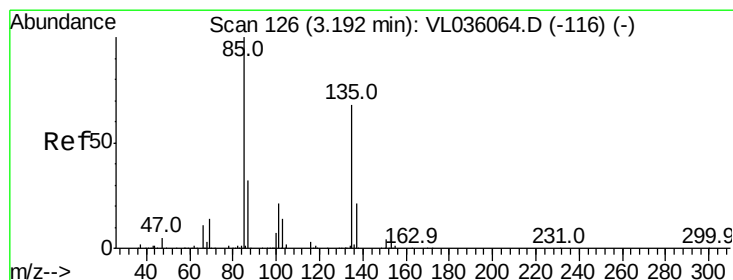
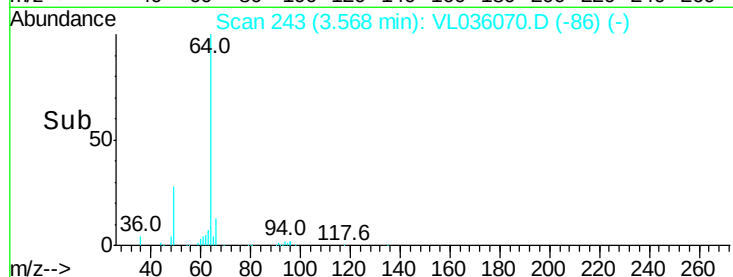
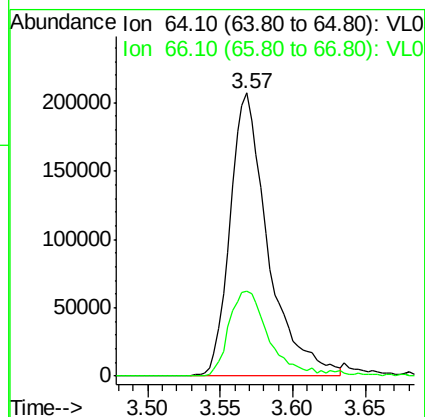
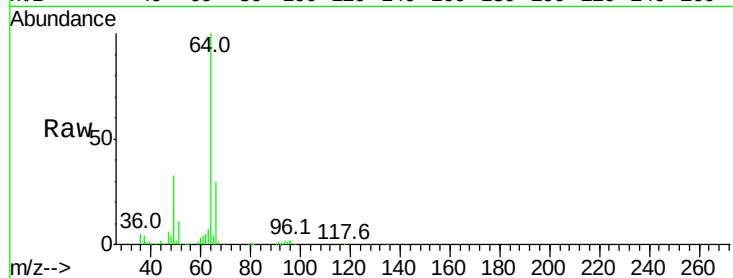
VSTDIC015

Tgt Ion: 64 Resp: 376750

Ion Ratio Lower Upper

64 100

66 29.9 27.7 41.5



#8

Dichlorotetrafluoroethane

Concen: 8.629 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.00 min

Lab File: VL036070.D

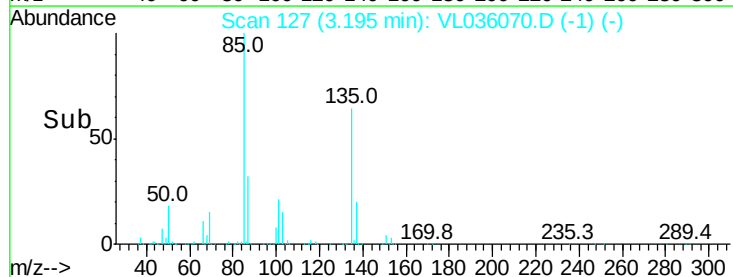
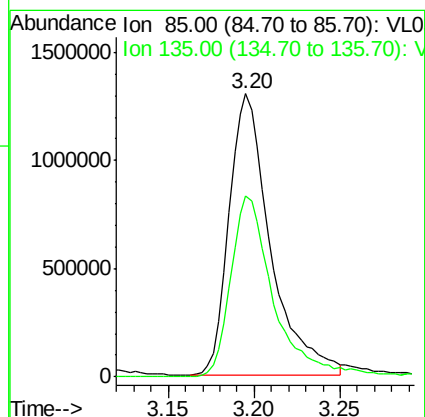
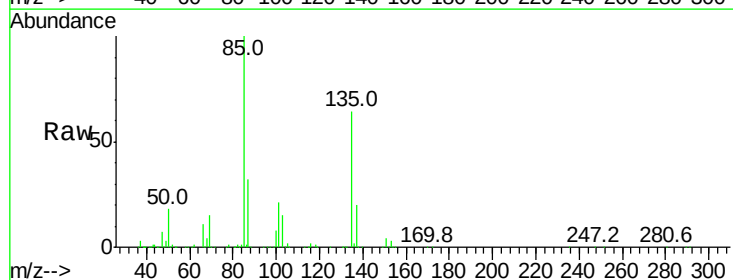
Acq: 7 Dec 2020 16:17

Tgt Ion: 85 Resp: 2182940

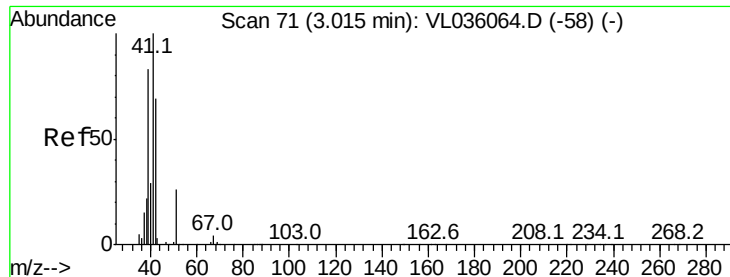
Ion Ratio Lower Upper

85 100

135 67.7 53.8 80.8







#9

Propene

Concen: 19.648 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

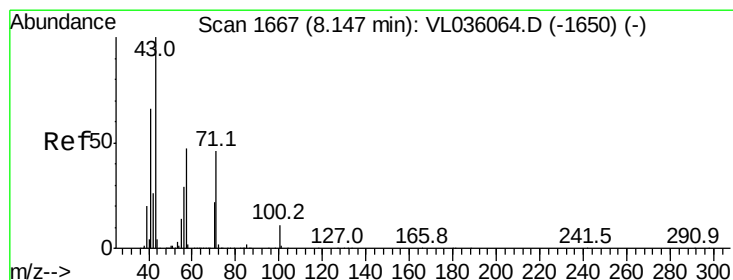
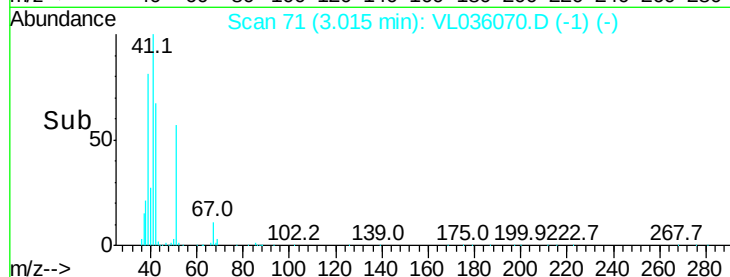
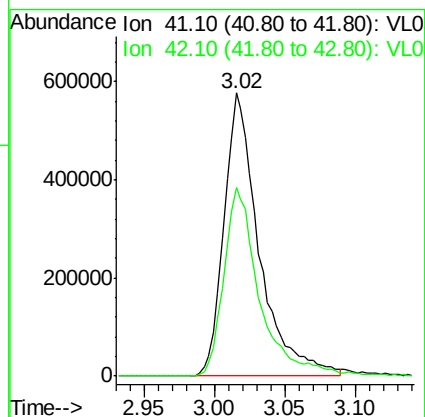
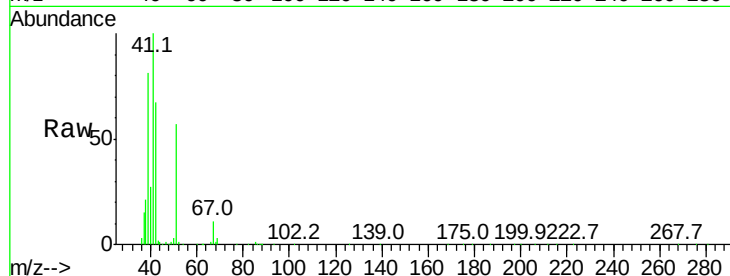
VSTDIC015

Tgt Ion: 41 Resp: 997500

Ion Ratio Lower Upper

41 100

42 68.3 57.0 85.6



#10

Heptane

Concen: 18.379 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VL036070.D

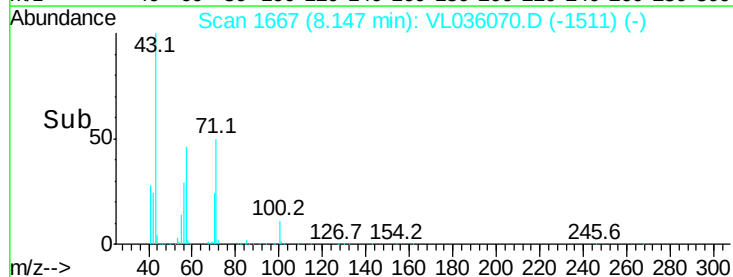
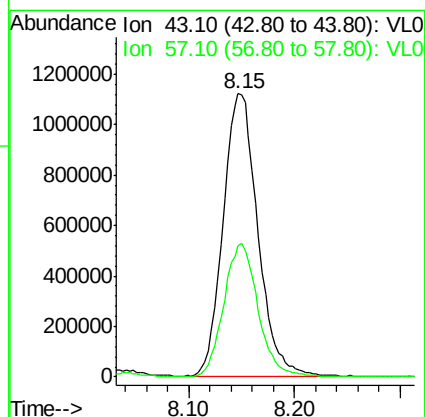
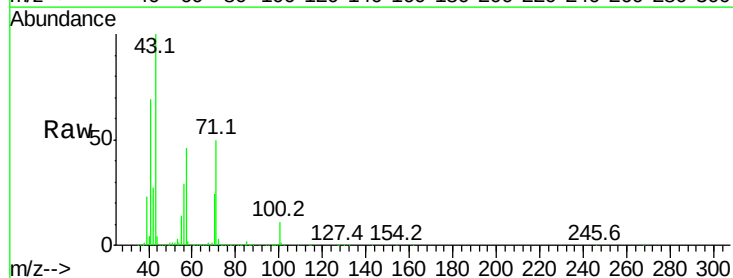
Acq: 7 Dec 2020 16:17

Tgt Ion: 43 Resp: 2546105

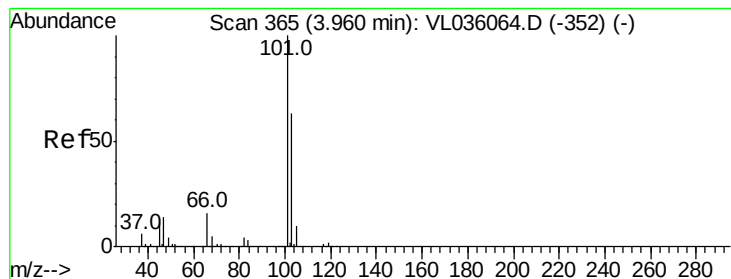
Ion Ratio Lower Upper

43 100

57 46.8 37.9 56.9







#11

Trichlorofluoromethane

Concen: 8.429 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

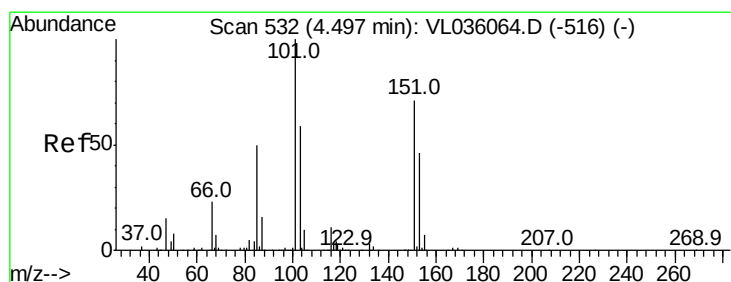
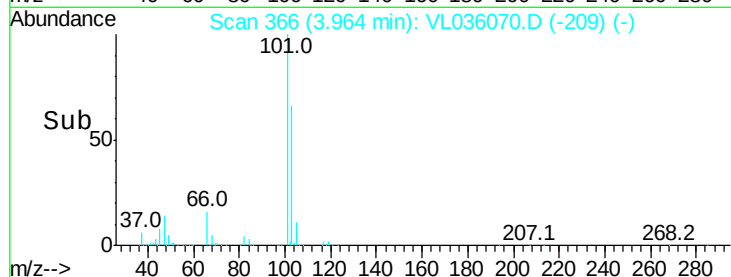
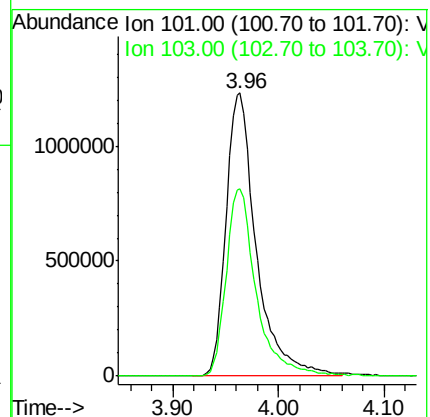
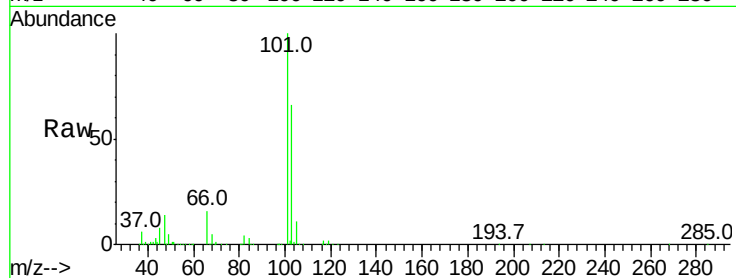
VSTDIC015

Tgt Ion:101 Resp: 2450672

Ion Ratio Lower Upper

101 100

103 66.3 50.3 75.5



#12

1,1,2-Trichlorotrifluoroethane

Concen: 7.582 ppbv

RT: 4.50 min Scan# 532

Delta R.T. 0.00 min

Lab File: VL036070.D

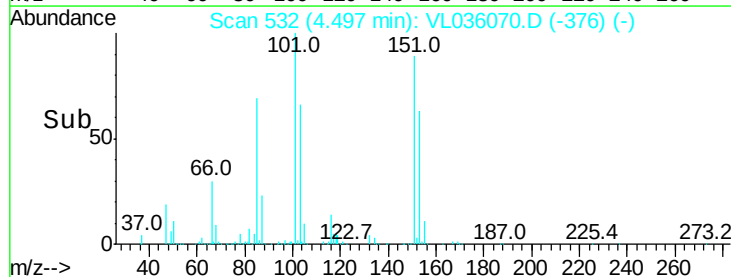
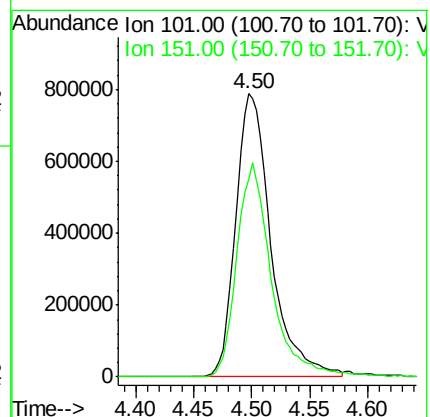
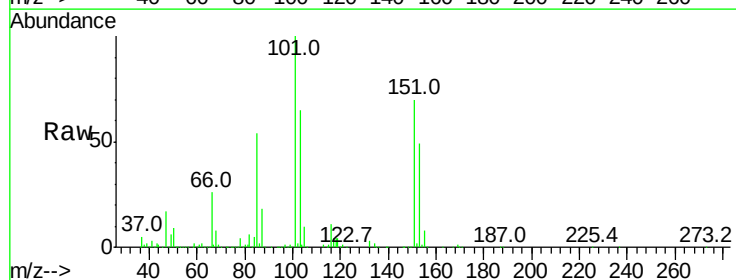
Acq: 7 Dec 2020 16:17

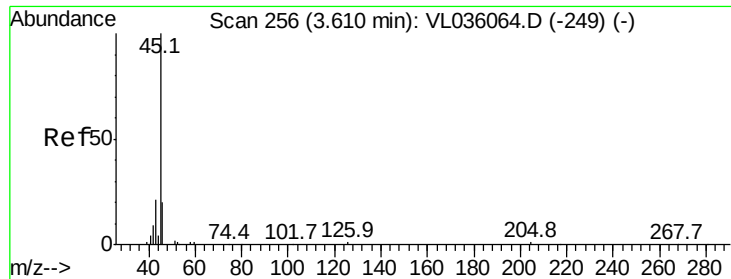
Tgt Ion:101 Resp: 1658538

Ion Ratio Lower Upper

101 100

151 74.5 59.3 88.9





#13

Ethanol

Concen: 14.220 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

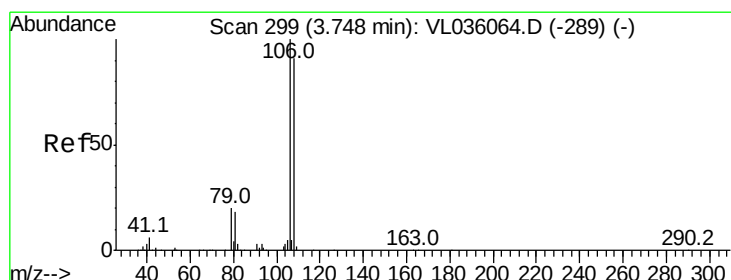
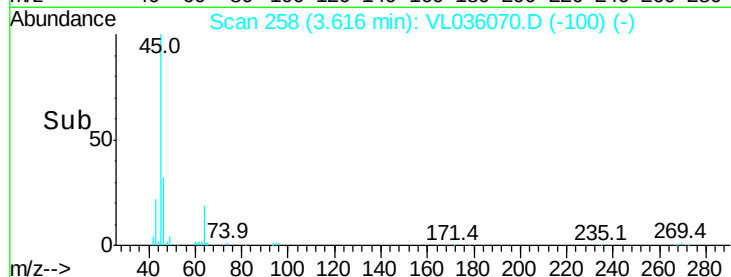
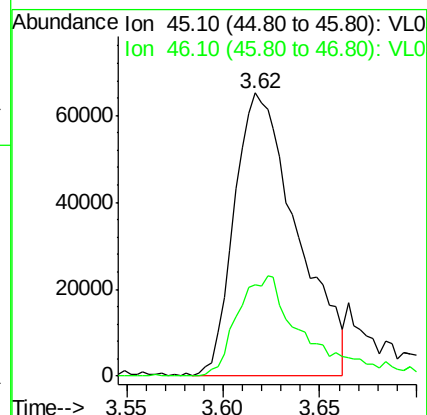
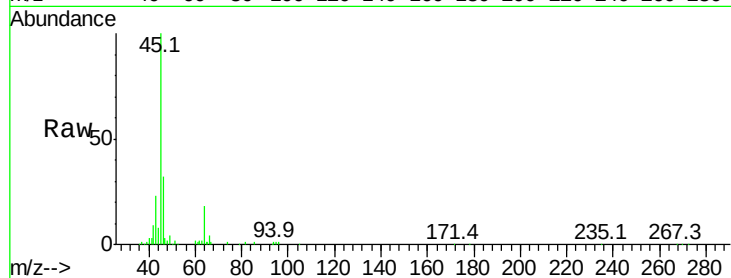
VSTDIC015

Tgt Ion: 45 Resp: 146007

Ion Ratio Lower Upper

45 100

46 39.7 19.0 75.8



#14

Bromoethene

Concen: 7.684 ppbv

RT: 3.75 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

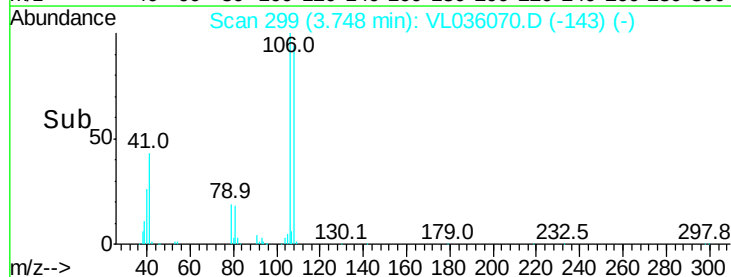
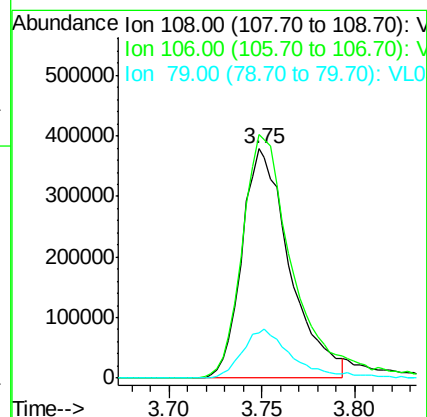
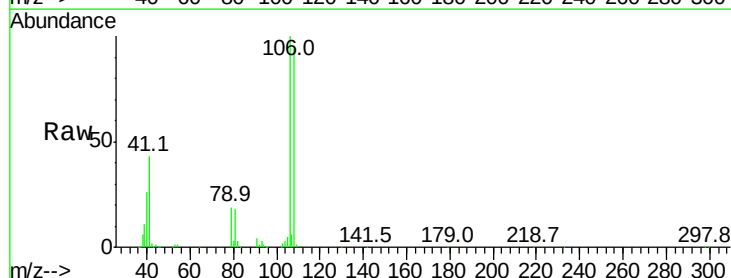
Tgt Ion: 108 Resp: 681216

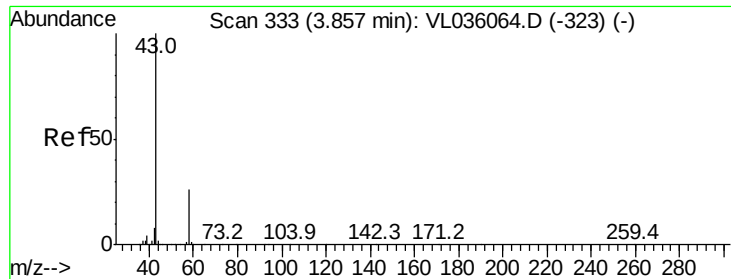
Ion Ratio Lower Upper

108 100

106 114.5 91.0 136.4

79 22.8 19.3 28.9

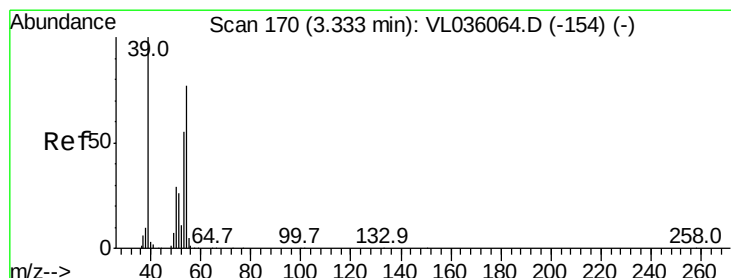
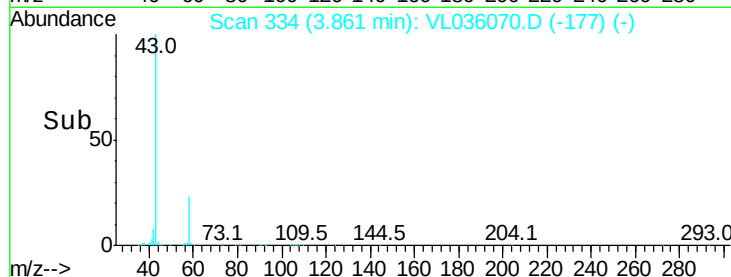
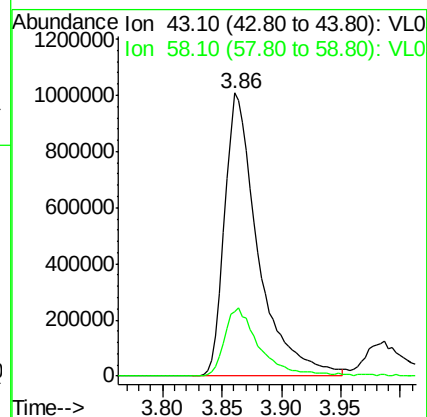
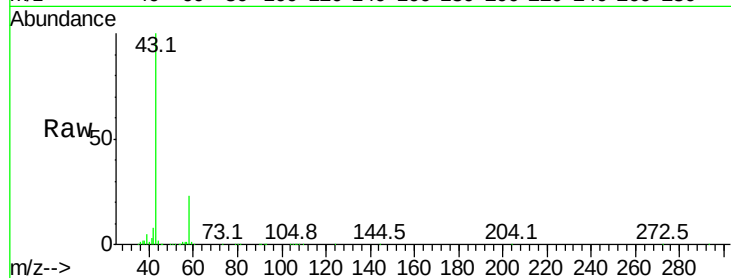




#15  
Acetone  
Concen: 15.381 ppbv  
RT: 3.86 min Scan# 334  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

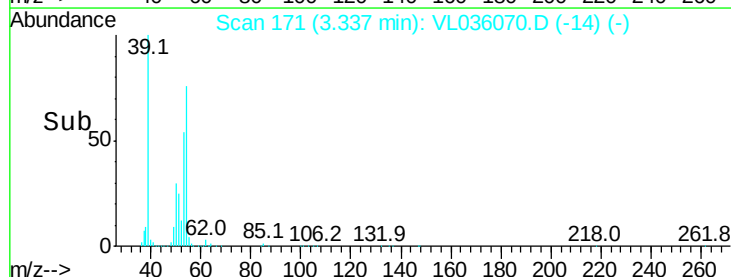
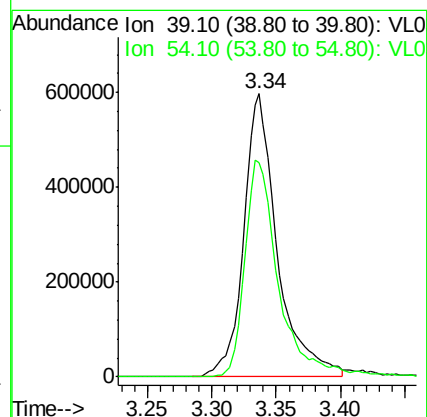
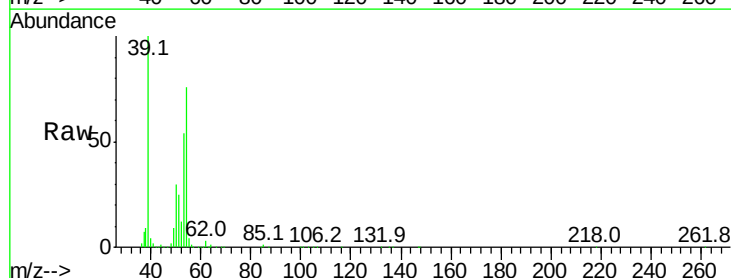
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

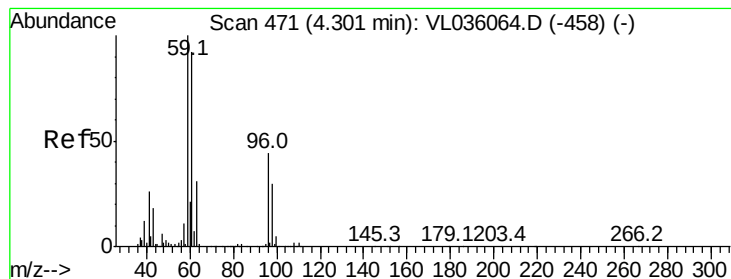
Tgt Ion: 43 Resp: 1969308  
Ion Ratio Lower Upper  
43 100  
58 25.4 20.9 31.3



#16  
1,3-Butadiene  
Concen: 19.179 ppbv  
RT: 3.34 min Scan# 171  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

Tgt Ion: 39 Resp: 1079178  
Ion Ratio Lower Upper  
39 100  
54 78.0 62.1 93.1



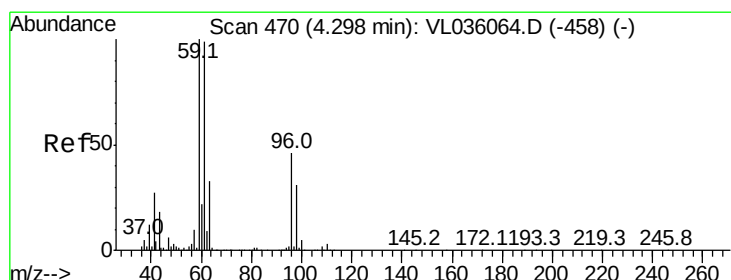
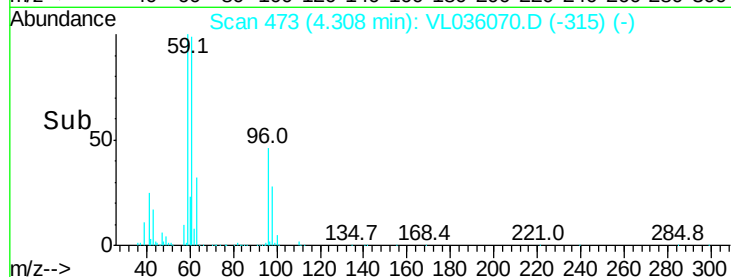
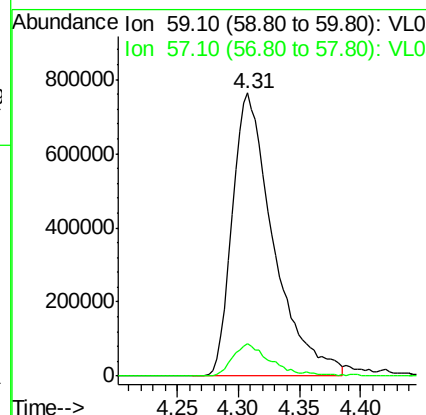
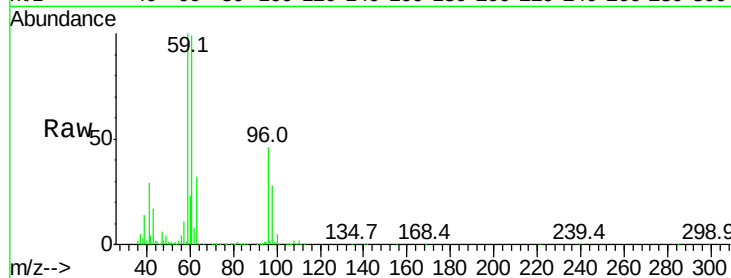


#17

tert-Butyl alcohol  
 Concen: 12.791 ppbv  
 RT: 4.31 min Scan# 473  
 Delta R.T. 0.01 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

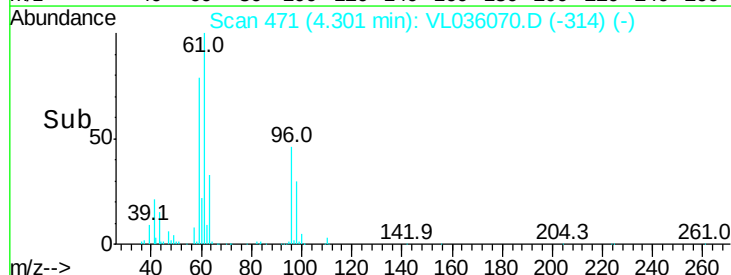
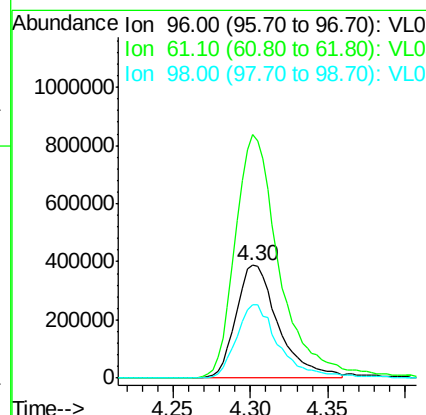
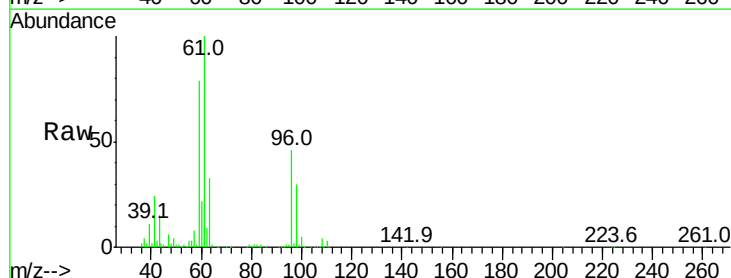
Tgt Ion: 59 Resp: 1795011  
 Ion Ratio Lower Upper  
 59 100  
 57 11.0 8.7 13.1

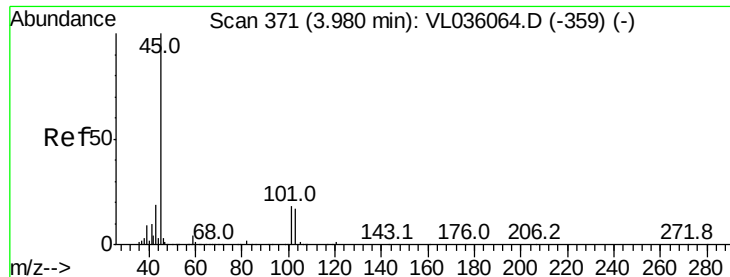


#18

1,1-Dichloroethene  
 Concen: 7.621 ppbv  
 RT: 4.30 min Scan# 471  
 Delta R.T. 0.00 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

Tgt Ion: 96 Resp: 739575  
 Ion Ratio Lower Upper  
 96 100  
 61 216.0 171.4 257.2  
 98 65.2 54.2 81.2





#19

Isopropyl Alcohol

Concen: 16.563 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

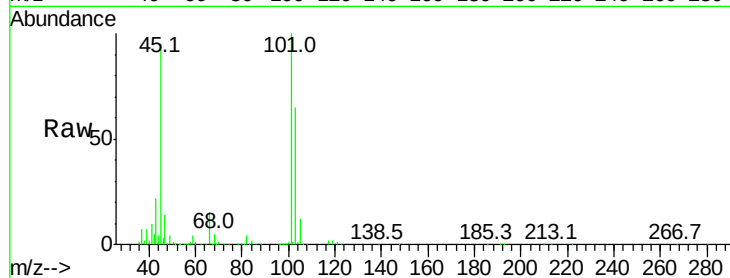
VSTDIC015

Tgt Ion: 45 Resp: 1137605

Ion Ratio Lower Upper

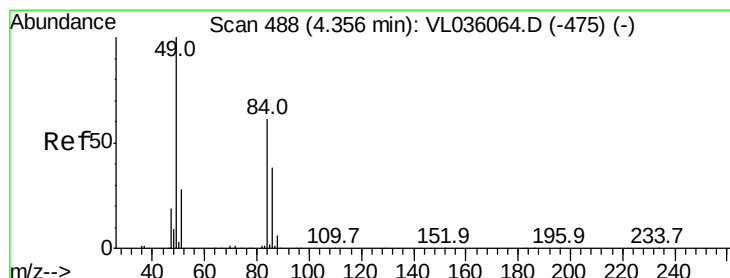
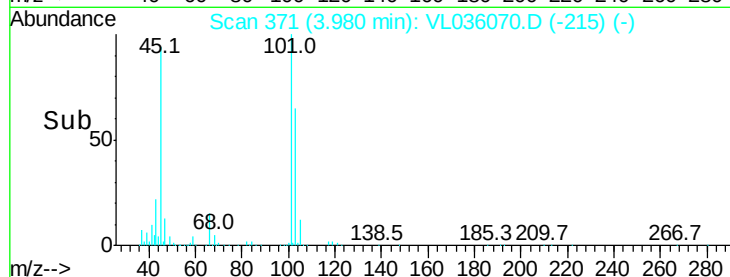
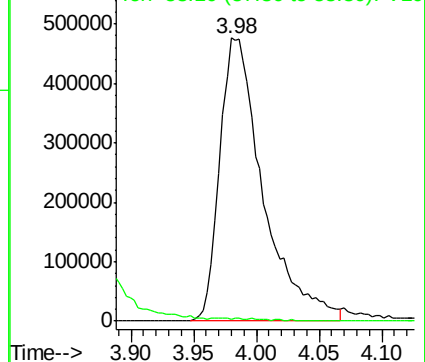
45 100

58 44.6 0.0 0.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 6.041 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Tgt Ion: 84 Resp: 669138

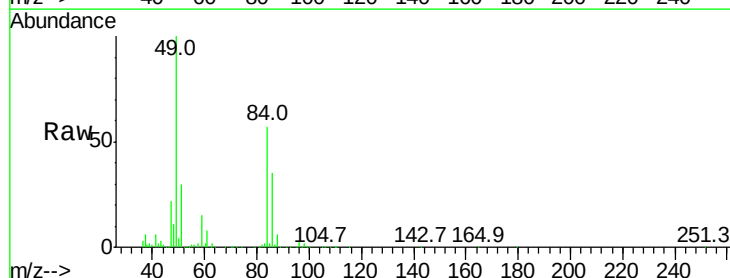
Ion Ratio Lower Upper

84 100

49 173.2 133.0 199.4

51 51.0 38.9 58.3

86 61.5 48.8 73.2

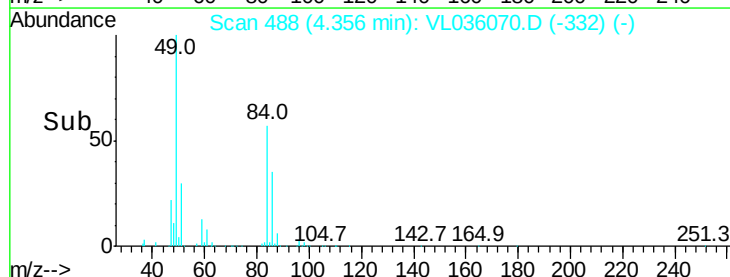
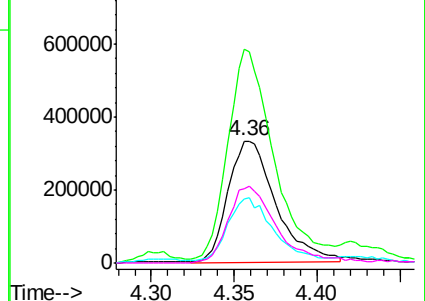


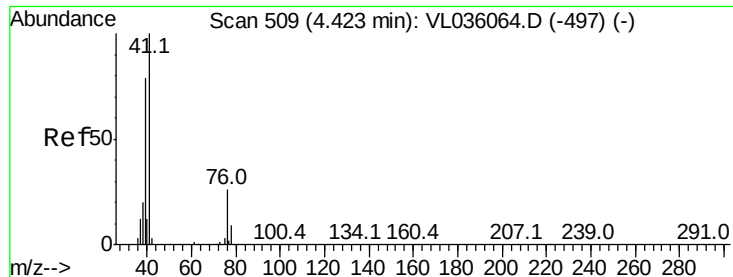
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

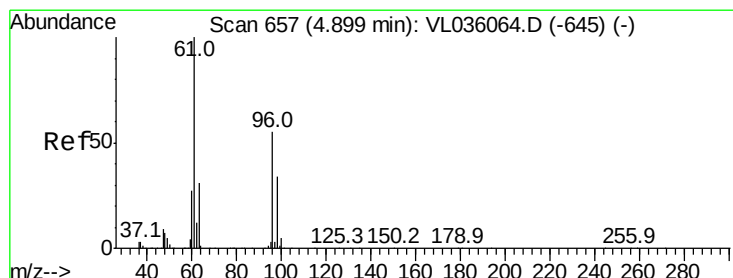
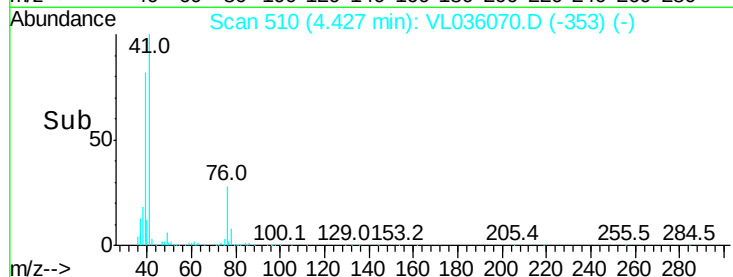
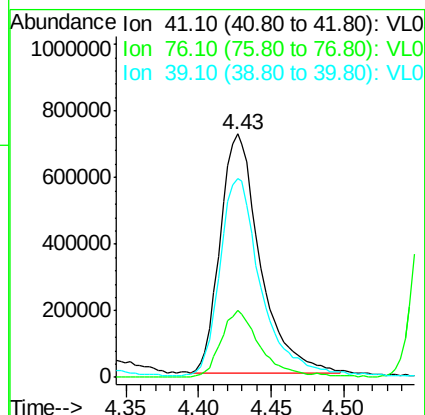
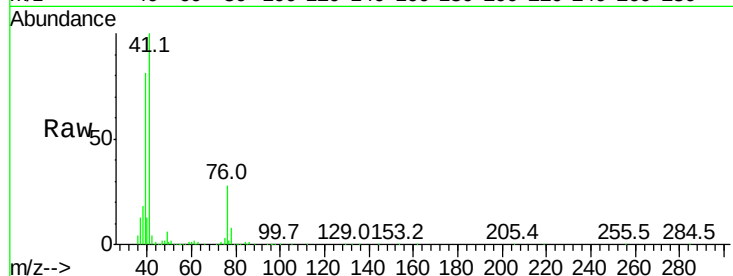




#21  
 Allyl Chloride  
 Concen: 20.109 ppbv  
 RT: 4.43 min Scan# 510  
 Delta R.T. 0.00 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

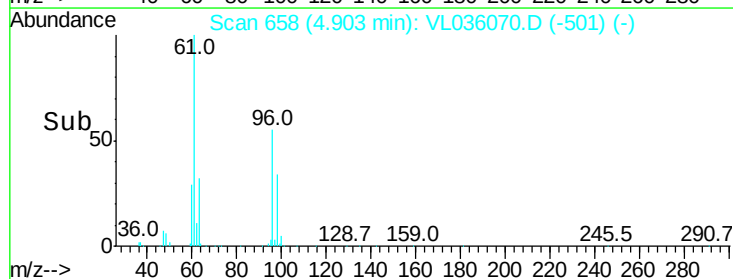
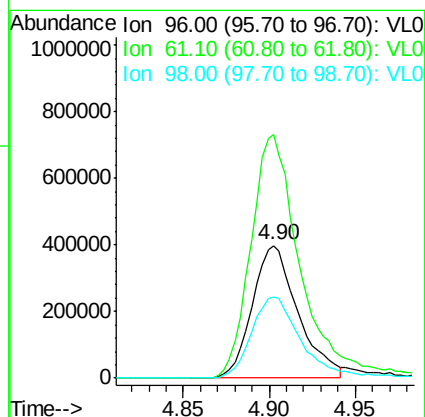
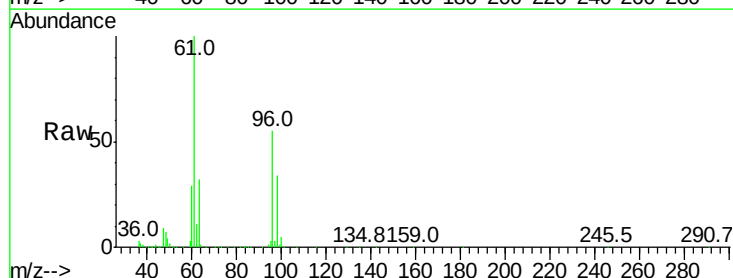
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

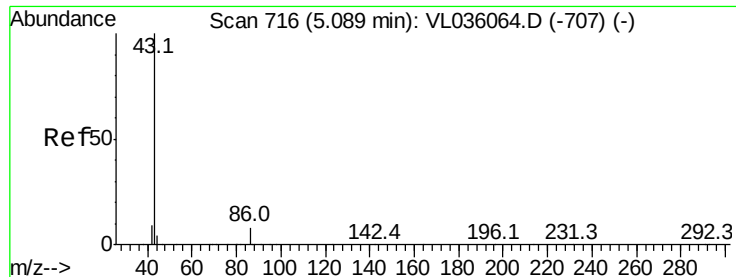
Tgt Ion: 41 Resp: 1372144  
 Ion Ratio Lower Upper  
 41 100  
 76 28.1 21.0 31.4  
 39 86.2 66.0 99.0



#22  
 trans-1,2-Dichloroethene  
 Concen: 7.564 ppbv  
 RT: 4.90 min Scan# 658  
 Delta R.T. 0.00 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

Tgt Ion: 96 Resp: 728457  
 Ion Ratio Lower Upper  
 96 100  
 61 183.4 145.7 218.5  
 98 61.5 49.2 73.8





#23

Vinyl Acetate

Concen: 19.173 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

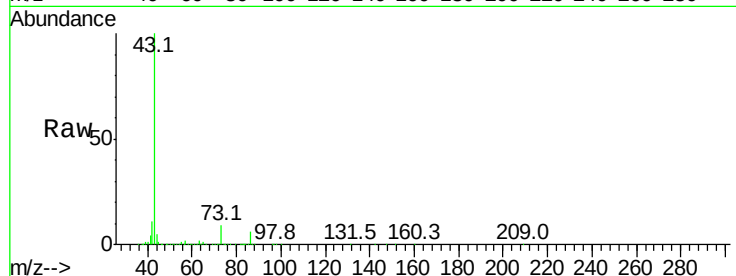
MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2898846

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.2   | 5.0   | 7.4   |
| 42  | 10.7  | 7.8   | 11.6  |
| 44  | 4.9   | 3.2   | 4.8#  |



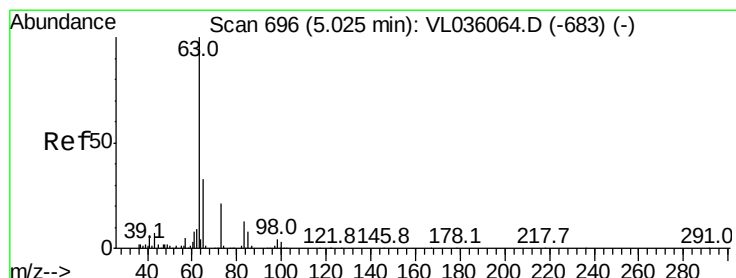
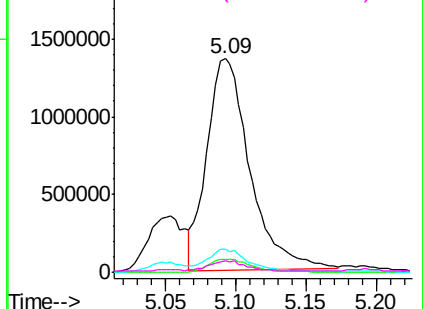
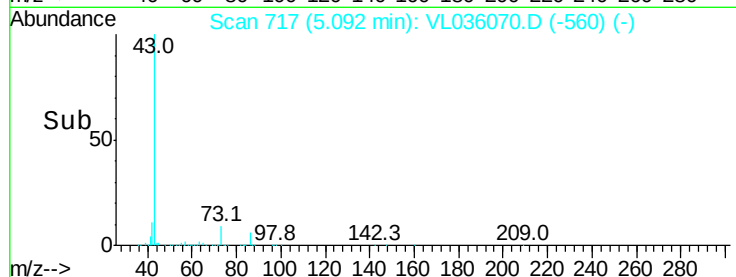
Abundance

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: 11.585 ppbv

RT: 5.03 min Scan# 698

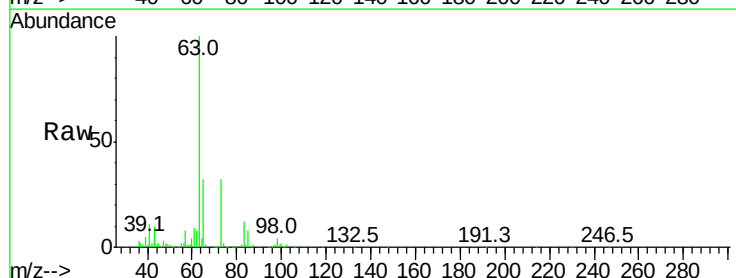
Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Tgt Ion: 63 Resp: 2000746

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 3.9   | 2.2   | 6.6   |
| 100 | 2.3   | 1.5   | 4.4   |

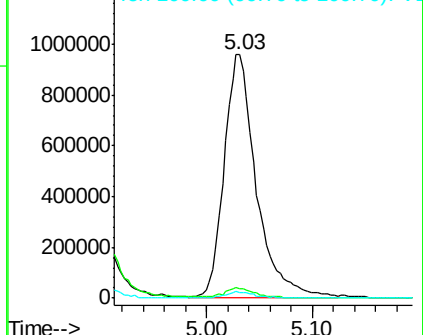
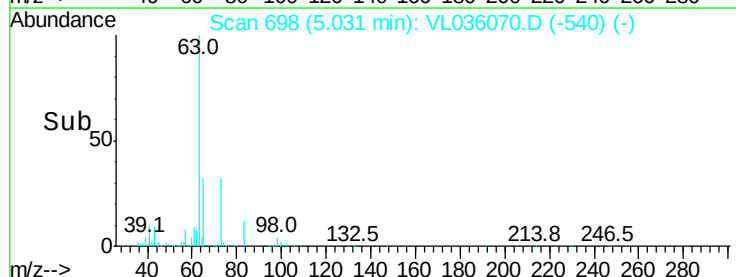


Abundance

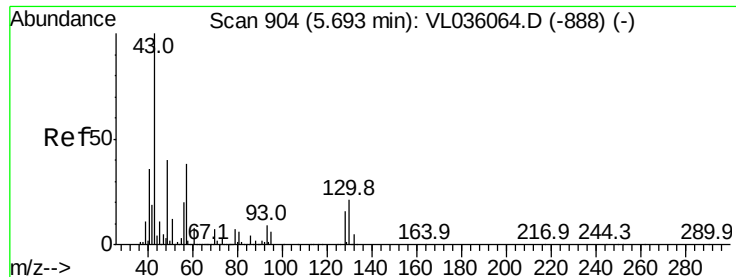
Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0







#25

Ethyl Acetate

Concen: 16.169 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 4163406

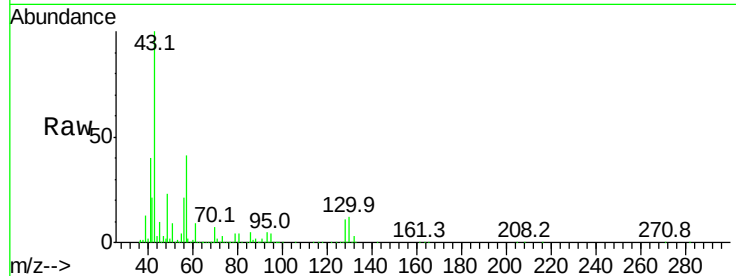
Ion Ratio Lower Upper

43 100

45 10.4 8.2 12.4

61 9.6 7.4 11.2

70 7.1 5.4 8.0

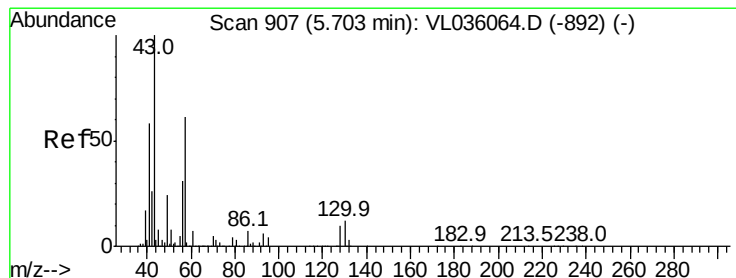
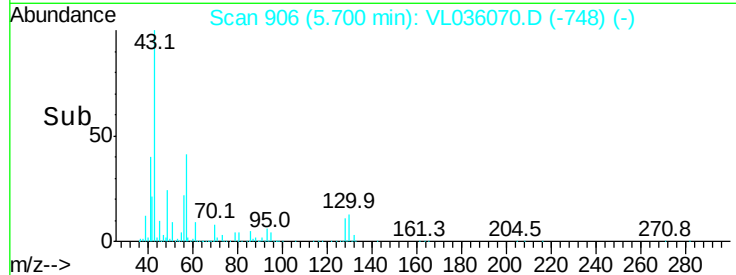
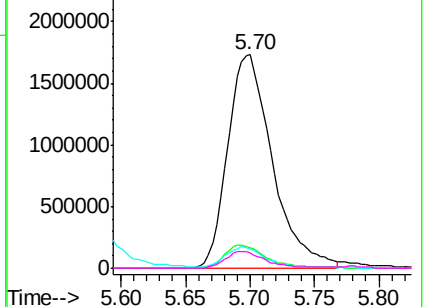


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 12.734 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Tgt Ion: 57 Resp: 1740803

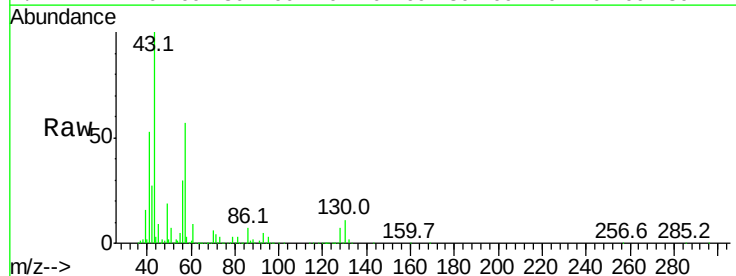
Ion Ratio Lower Upper

57 100

41 101.8 82.9 124.3

43 246.0 199.9 299.9

56 53.7 43.1 64.7

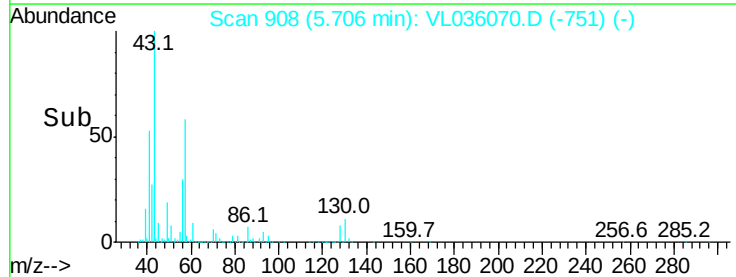
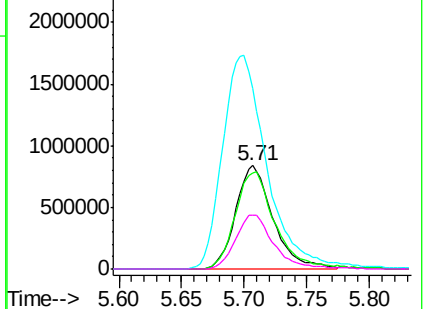


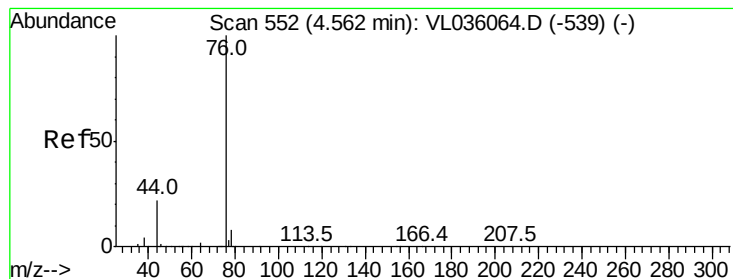
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.212 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

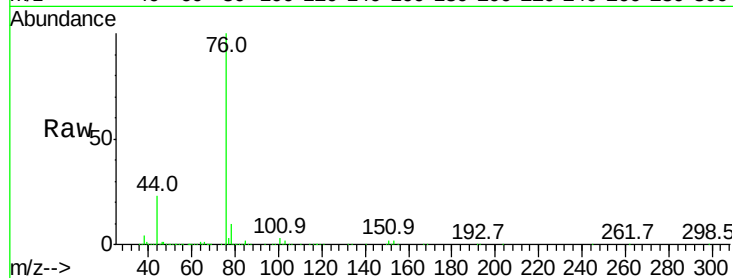
Tgt Ion: 76 Resp: 2033451

Ion Ratio Lower Upper

76 100

44 21.8 17.9 26.9

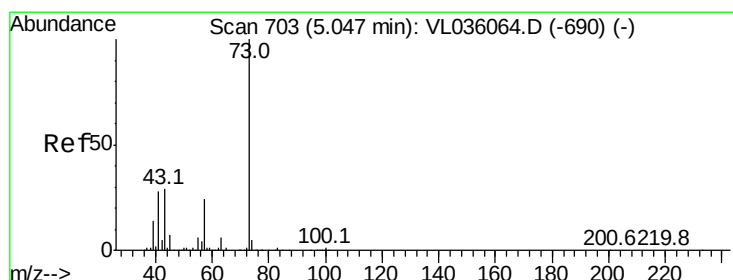
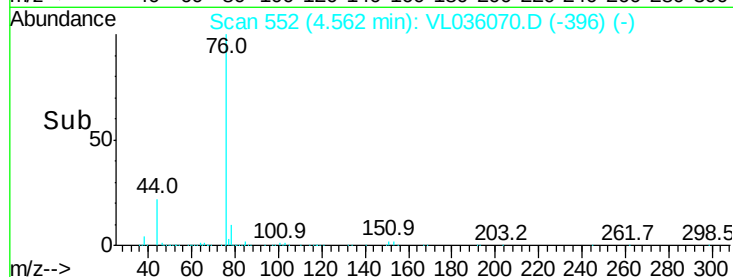
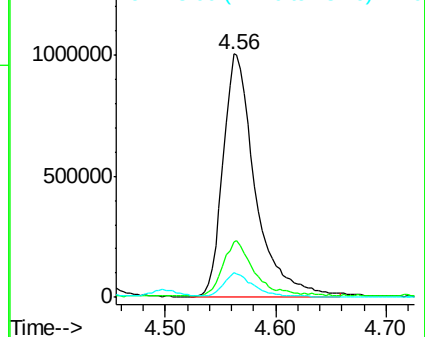
78 9.8 7.8 11.8



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: 13.320 ppbv

RT: 5.05 min Scan# 704

Delta R.T. 0.00 min

Lab File: VL036070.D

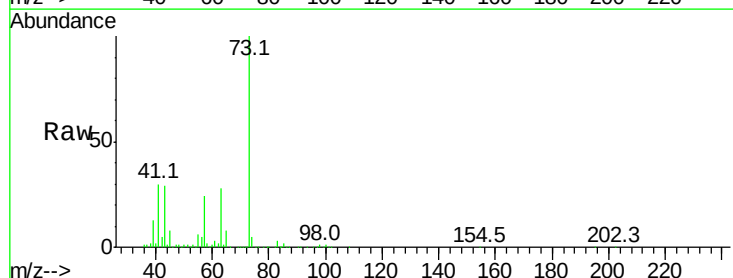
Acq: 7 Dec 2020 16:17

Tgt Ion: 73 Resp: 2714354

Ion Ratio Lower Upper

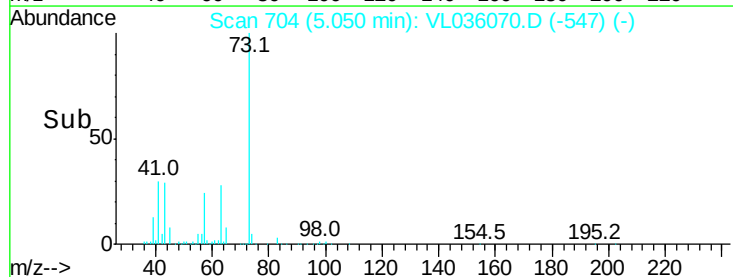
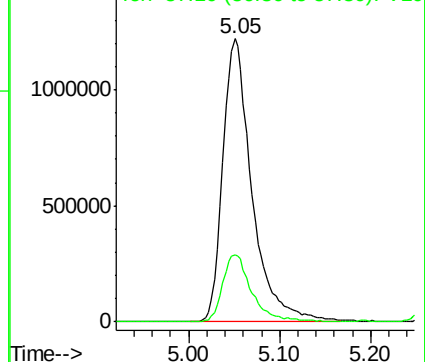
73 100

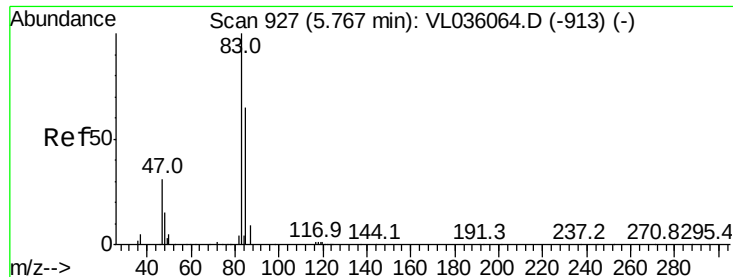
57 23.9 19.2 28.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

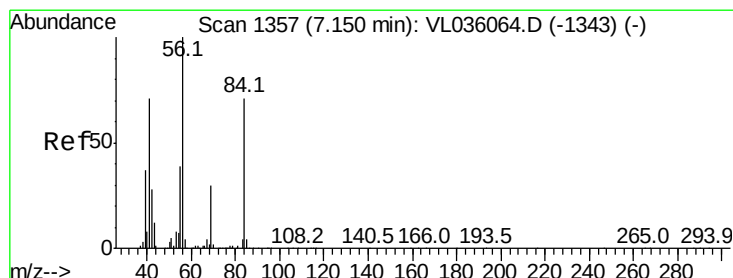
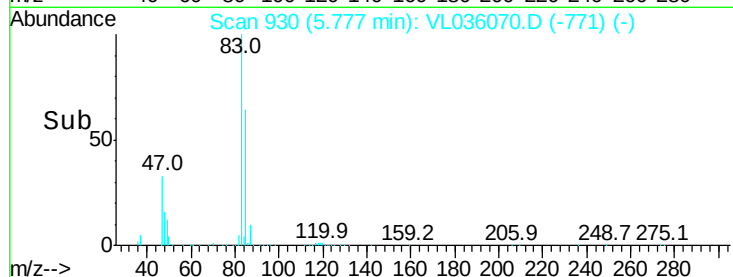
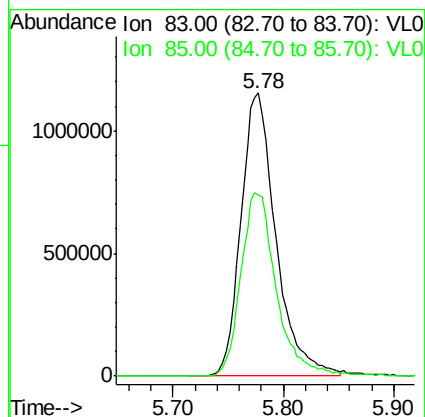
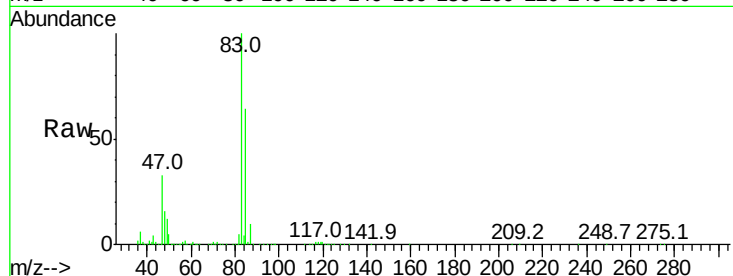




#29  
Chloroform  
Concen: 9.809 ppbv  
RT: 5.78 min Scan# 930  
Delta R.T. 0.01 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

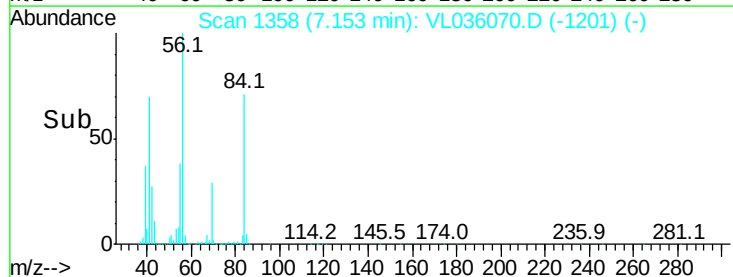
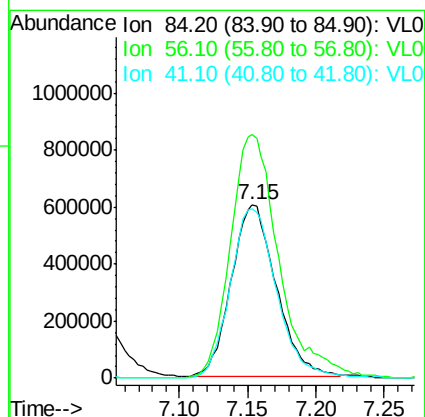
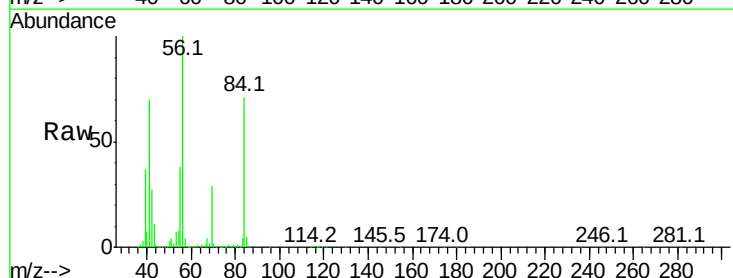
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

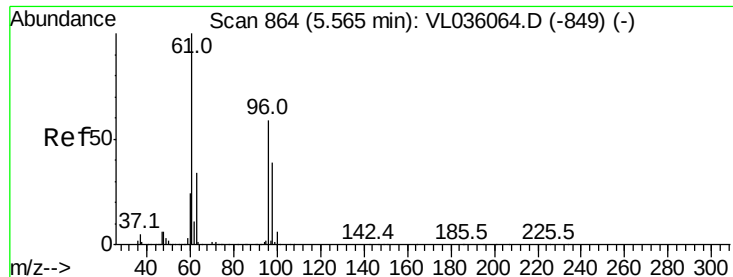
Tgt Ion: 83 Resp: 2534119  
Ion Ratio Lower Upper  
83 100  
85 63.7 51.8 77.6



#30  
Cyclohexane  
Concen: 10.677 ppbv  
RT: 7.15 min Scan# 1358  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

Tgt Ion: 84 Resp: 1378016  
Ion Ratio Lower Upper  
84 100  
56 154.3 128.0 192.0  
41 102.3 81.3 121.9



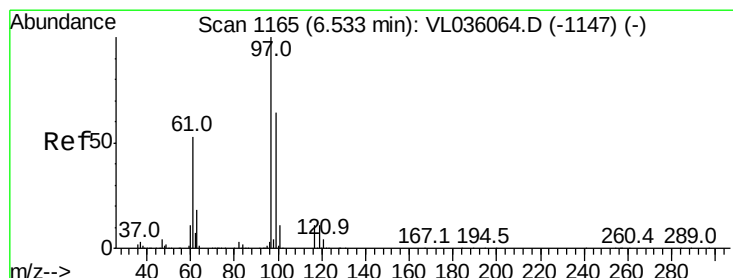
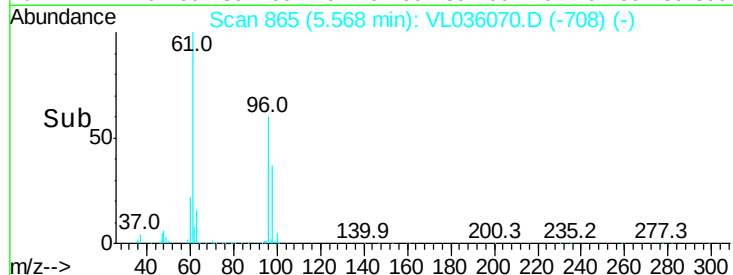
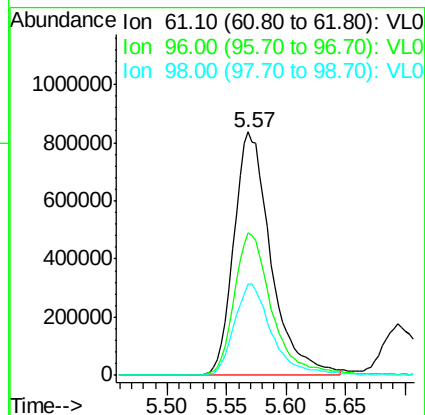
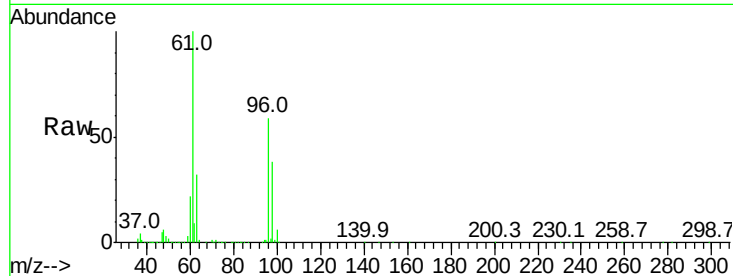


#31

cis-1,2-Dichloroethene  
 Concen: 14.417 ppbv  
 RT: 5.57 min Scan# 865  
 Delta R.T. 0.00 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

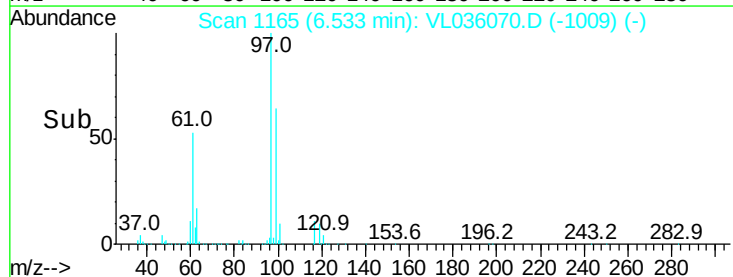
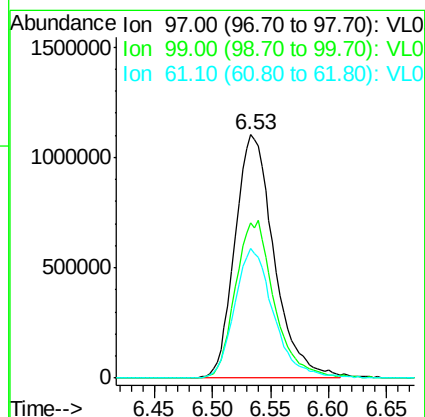
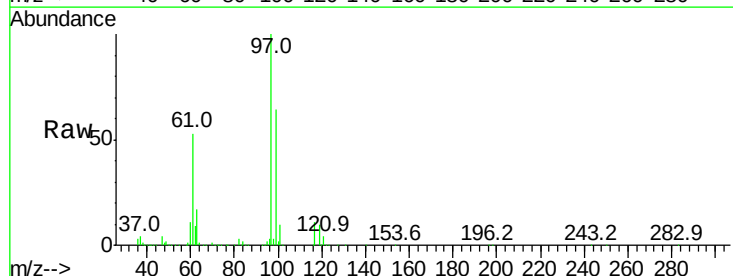
Tgt Ion: 61 Resp: 1804193  
 Ion Ratio Lower Upper  
 61 100  
 96 58.6 47.3 70.9  
 98 37.6 31.4 47.0

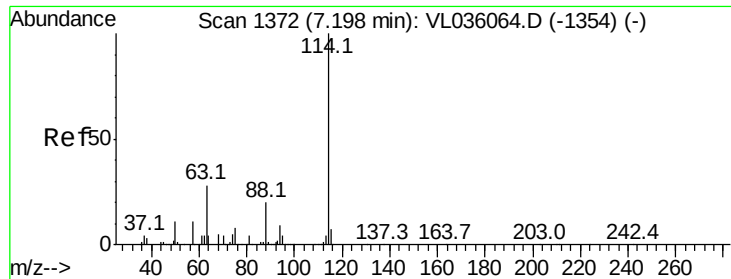


#32

1,1,1-Trichloroethane  
 Concen: 10.917 ppbv  
 RT: 6.53 min Scan# 1165  
 Delta R.T. 0.00 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

Tgt Ion: 97 Resp: 2585531  
 Ion Ratio Lower Upper  
 97 100  
 99 64.5 52.4 78.6  
 61 53.3 43.4 65.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

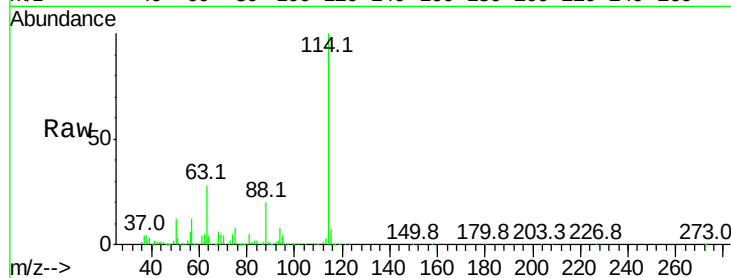
Tgt Ion:114 Resp: 2876604

Ion Ratio Lower Upper

114 100

63 29.5 23.6 35.4

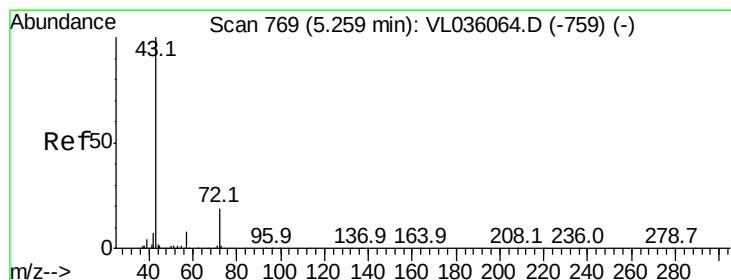
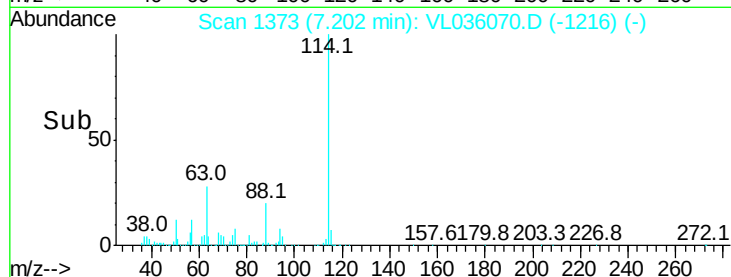
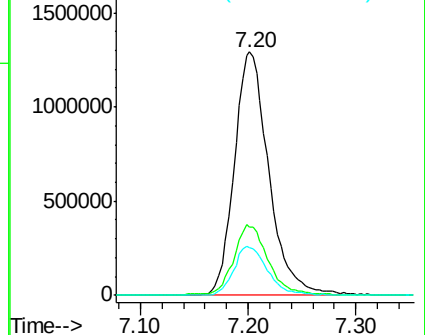
88 20.0 15.8 23.6



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: 26.413 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.00 min

Lab File: VL036070.D

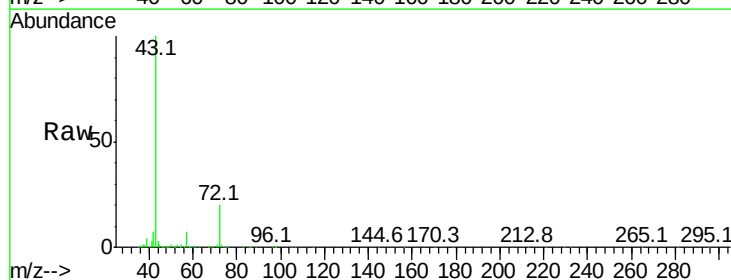
Acq: 7 Dec 2020 16:17

Tgt Ion: 43 Resp: 2604322

Ion Ratio Lower Upper

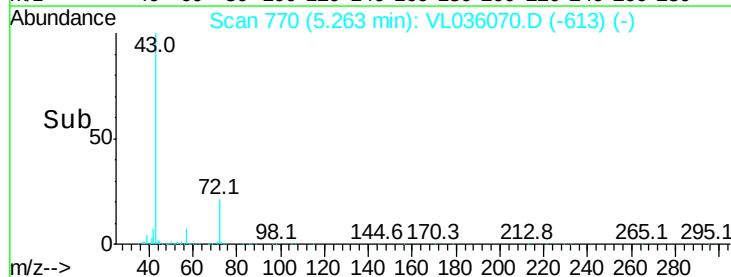
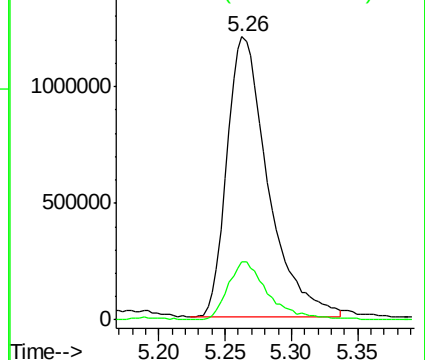
43 100

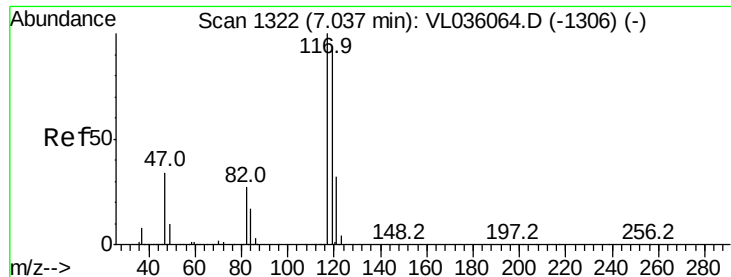
72 20.8 16.5 24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 16.660 ppbv

RT: 7.04 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

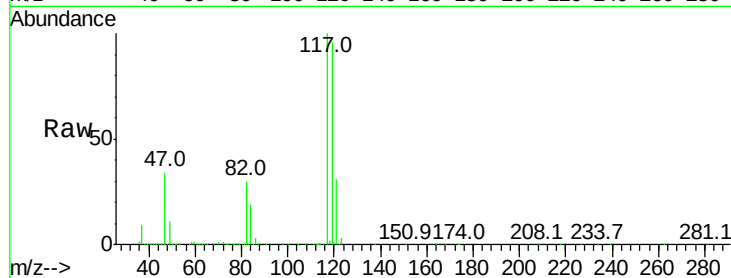
Tgt Ion:117 Resp: 2505644

Ion Ratio Lower Upper

117 100

119 95.8 75.1 112.7

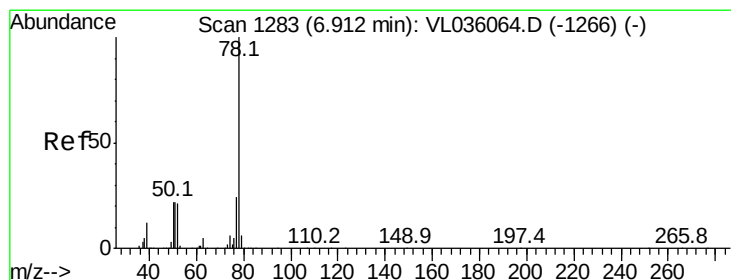
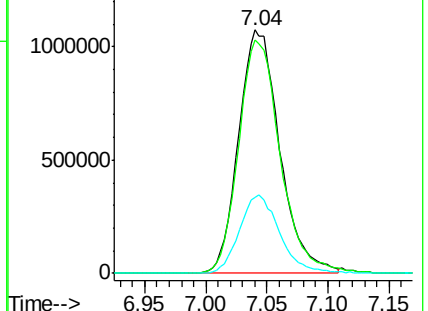
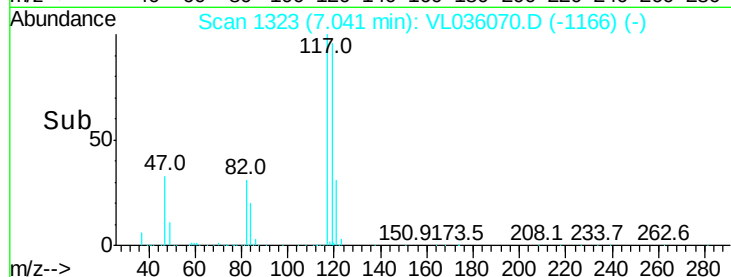
121 31.4 25.6 38.4



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: 17.507 ppbv

RT: 6.92 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

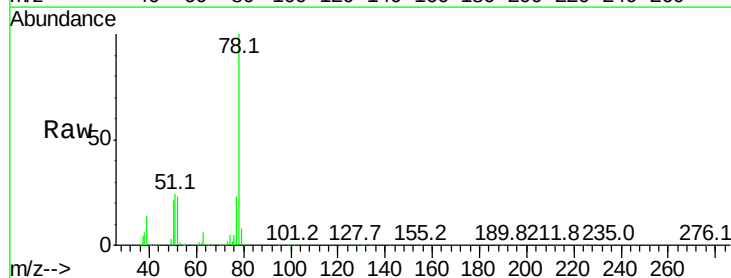
Tgt Ion: 78 Resp: 3444432

Ion Ratio Lower Upper

78 100

77 23.1 19.4 29.2

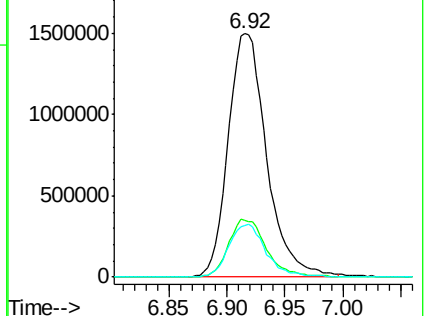
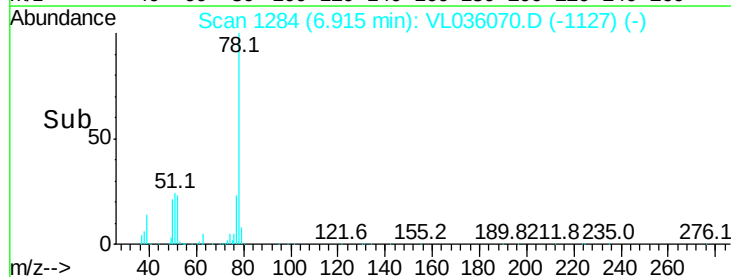
50 21.3 17.8 26.8

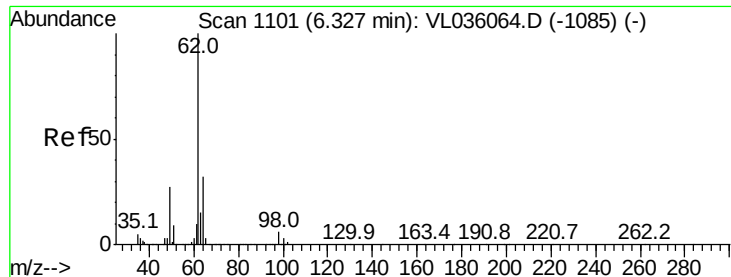


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

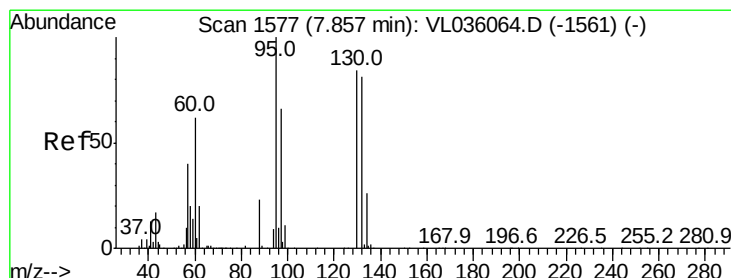
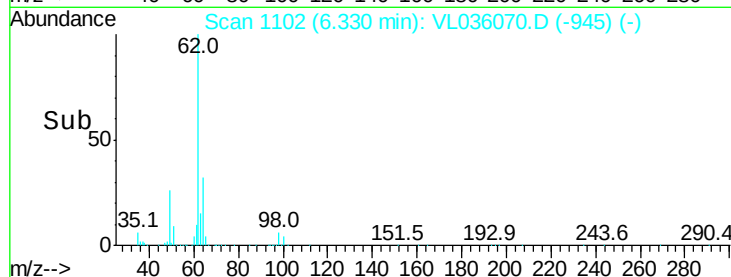
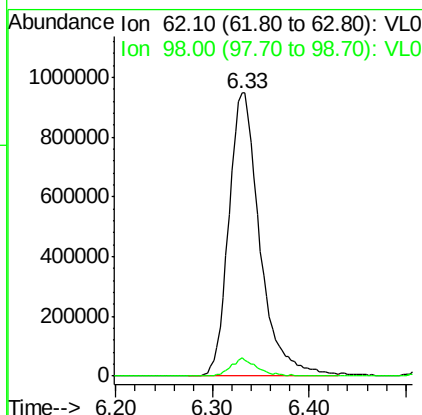
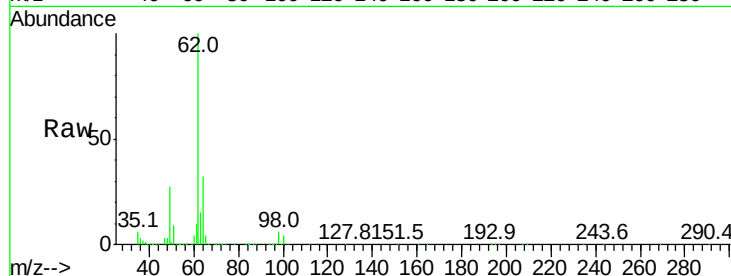




#37  
1,2-Dichloroethane  
Concen: 20.727 ppbv  
RT: 6.33 min Scan# 1102  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

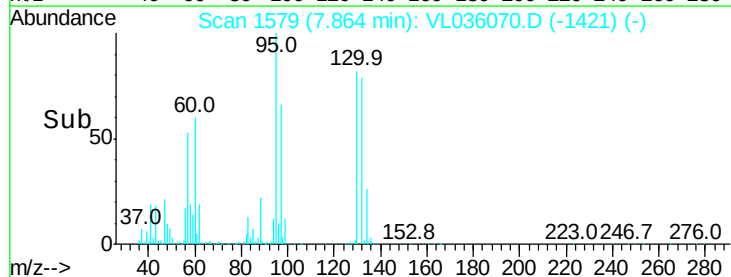
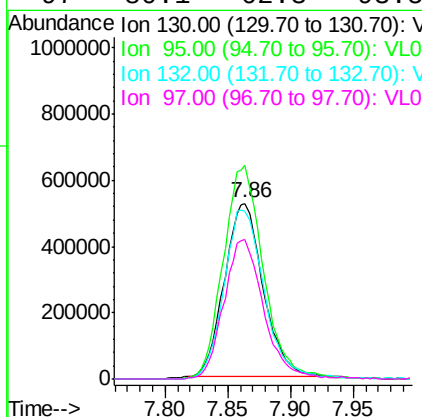
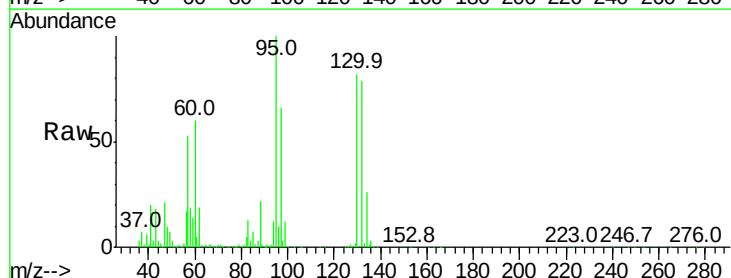
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

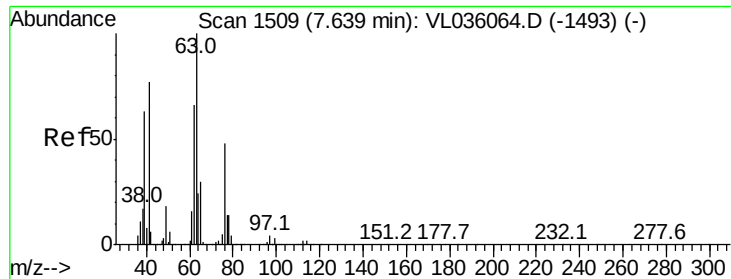
Tgt Ion: 62 Resp: 2115509  
Ion Ratio Lower Upper  
62 100  
98 5.6 4.6 7.0



#38  
Trichloroethene  
Concen: 12.842 ppbv  
RT: 7.86 min Scan# 1579  
Delta R.T. 0.01 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

Tgt Ion: 130 Resp: 1130495  
Ion Ratio Lower Upper  
130 100  
95 122.0 95.2 142.8  
132 95.9 76.9 115.3  
97 80.1 62.3 93.5





#39

1,2-Dichloropropane

Concen: 18.673 ppbv

RT: 7.64 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

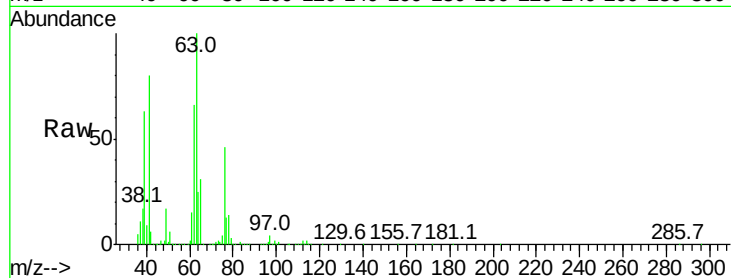
Tgt Ion: 63 Resp: 1407528

Ion Ratio Lower Upper

63 100

41 79.6 61.9 92.9

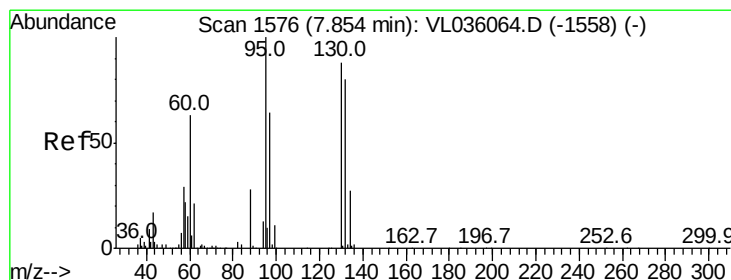
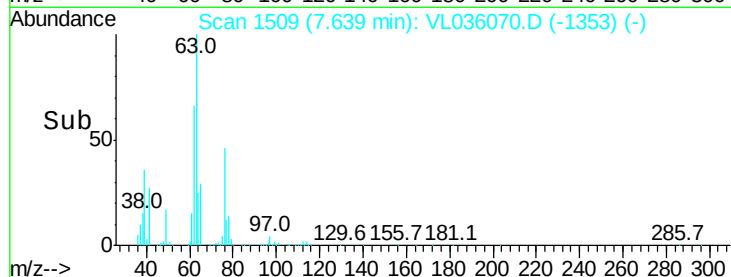
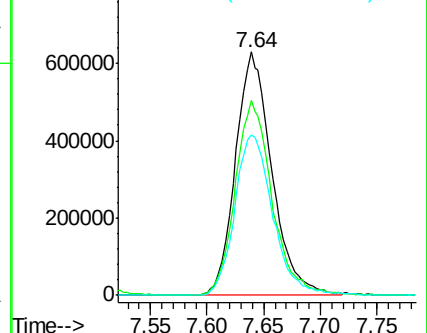
62 65.6 52.5 78.7



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



#40

1,4-Dioxane

Concen: 15.537 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Tgt Ion: 88 Resp: 390522

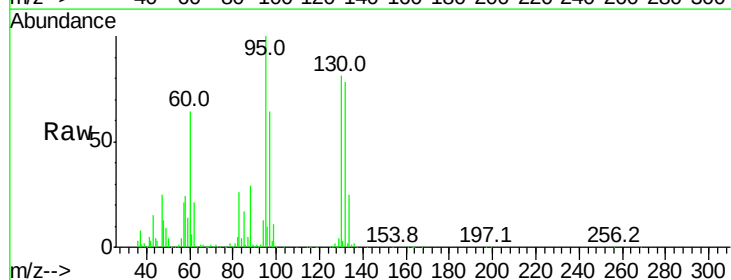
Ion Ratio Lower Upper

88 100

58 0.0 122.6 184.0#

43 0.0 0.0 0.0

57 0.0 0.0 0.0

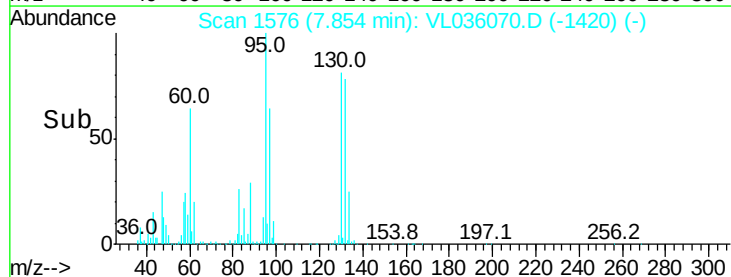
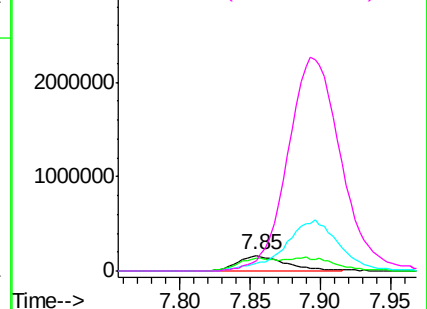


Abundance Ion 88.10 (87.80 to 88.80): VL0

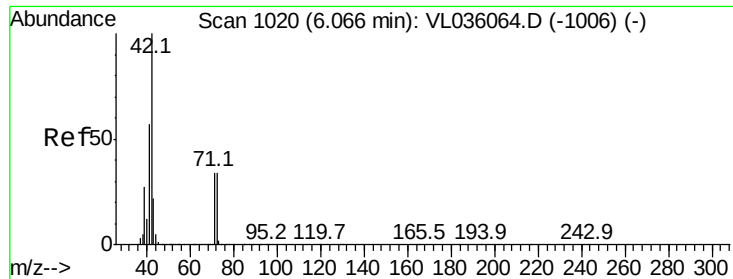
Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



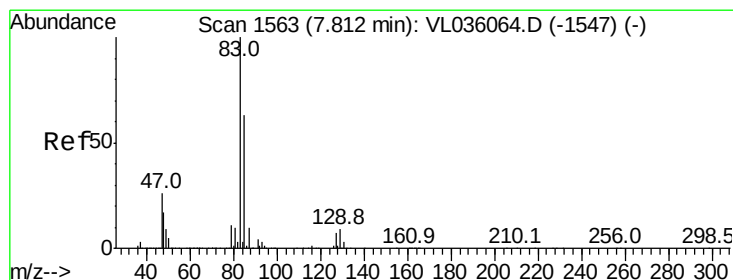
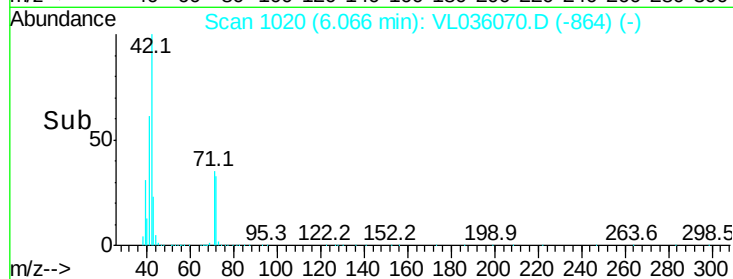
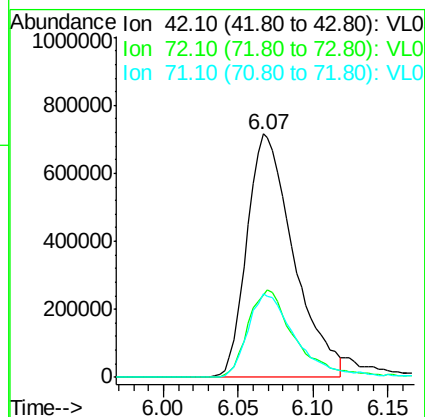
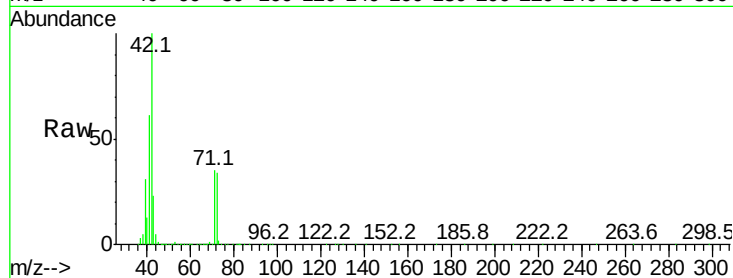




#41  
Tetrahydrofuran  
Concen: 30.140 ppbv  
RT: 6.07 min Scan# 1020  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

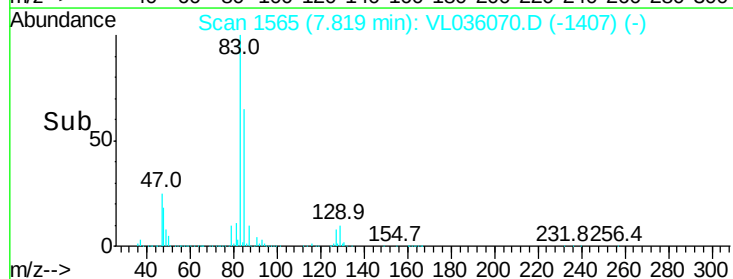
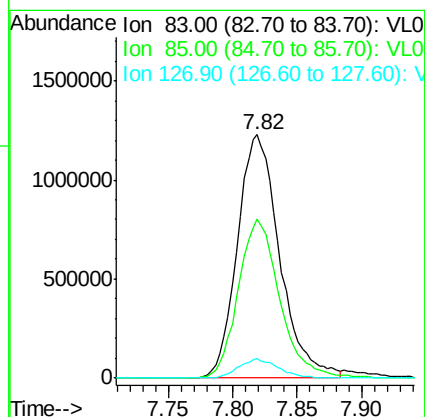
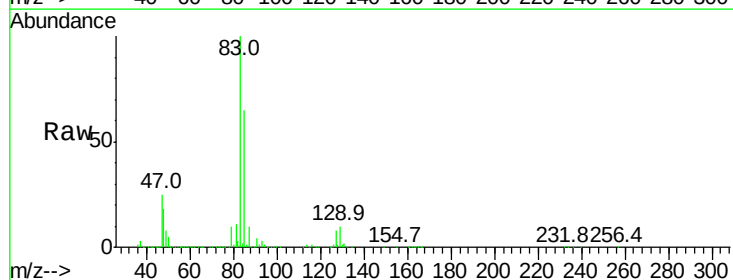
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

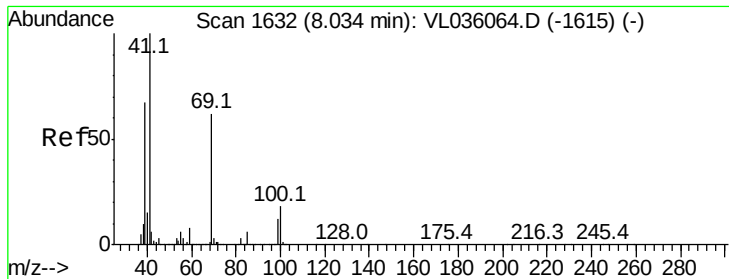
Tgt Ion: 42 Resp: 1551415  
Ion Ratio Lower Upper  
42 100  
72 37.3 28.3 42.5  
71 36.1 27.3 40.9



#42  
Bromodichloromethane  
Concen: 17.310 ppbv  
RT: 7.82 min Scan# 1565  
Delta R.T. 0.01 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

Tgt Ion: 83 Resp: 2794372  
Ion Ratio Lower Upper  
83 100  
85 65.4 50.2 75.2  
127 7.9 5.5 8.3

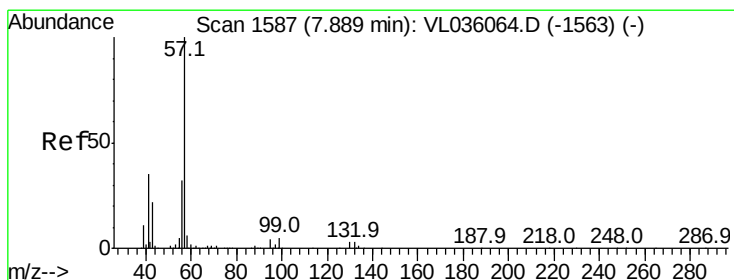
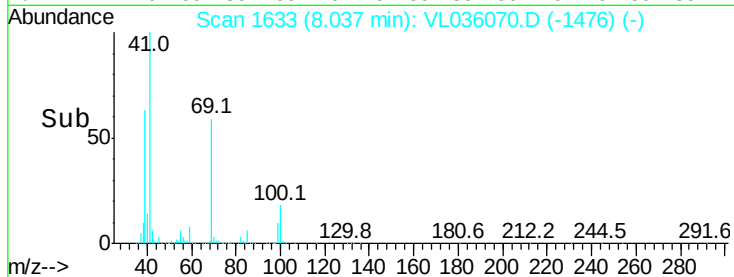
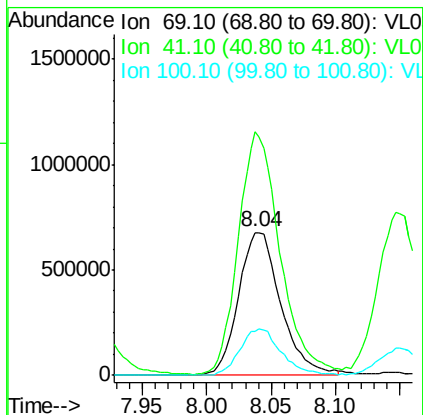
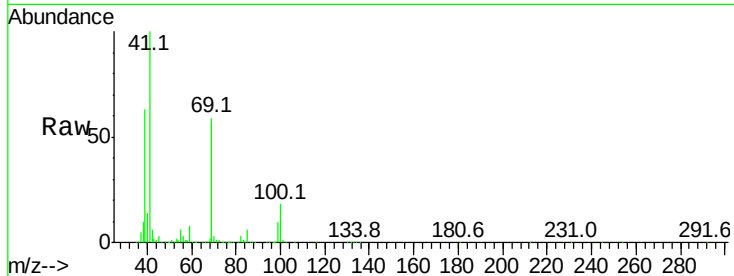




#43  
Methyl Methacrylate  
Concen: 21.586 ppbv  
RT: 8.04 min Scan# 1633  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

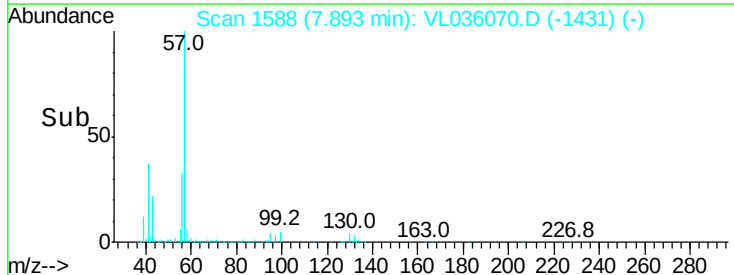
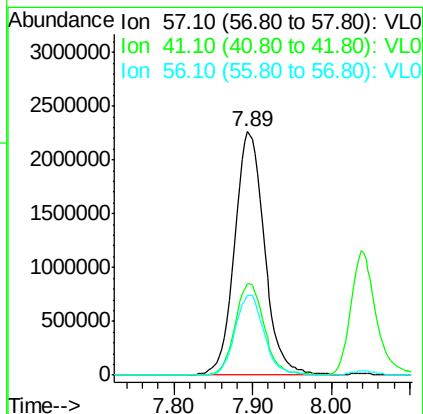
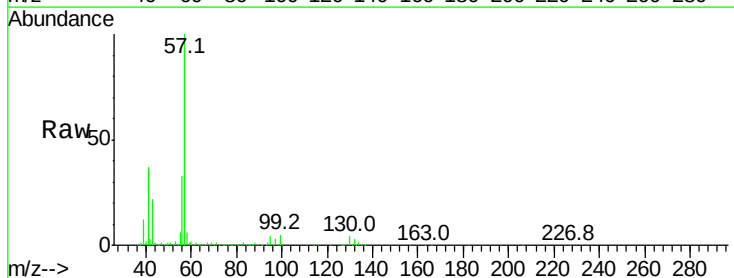
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

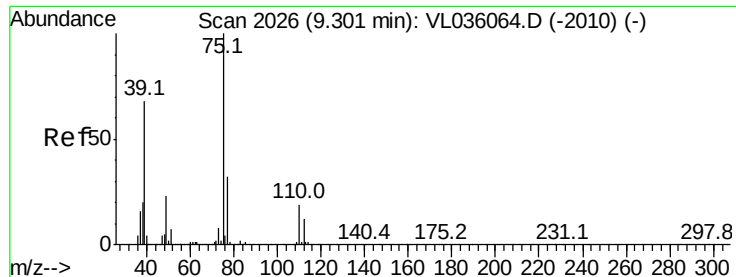
Tgt Ion: 69 Resp: 1547119  
Ion Ratio Lower Upper  
69 100  
41 168.1 133.0 199.6  
100 32.0 25.4 38.0



#44  
2,2,4-Trimethylpentane  
Concen: 20.483 ppbv  
RT: 7.89 min Scan# 1588  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

Tgt Ion: 57 Resp: 5973879  
Ion Ratio Lower Upper  
57 100  
41 36.9 28.9 43.3  
56 31.9 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 25.690 ppbv

RT: 9.30 min Scan# 2027

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

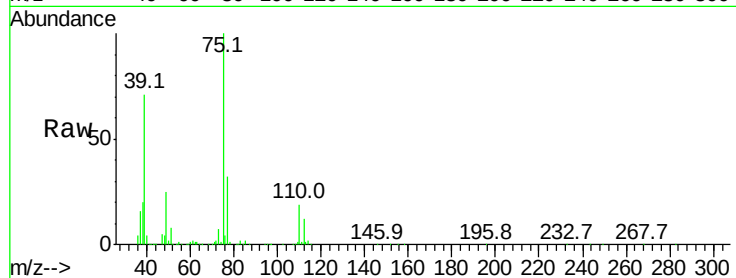
VSTDIC015

Tgt Ion: 75 Resp: 1740328

Ion Ratio Lower Upper

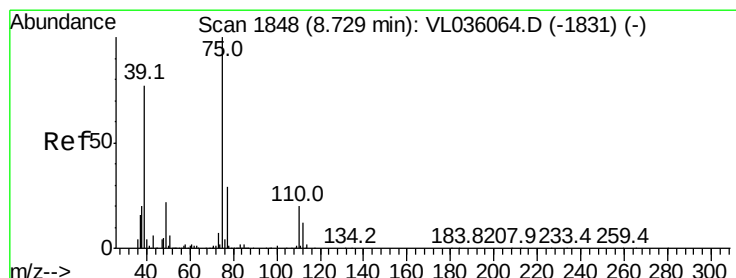
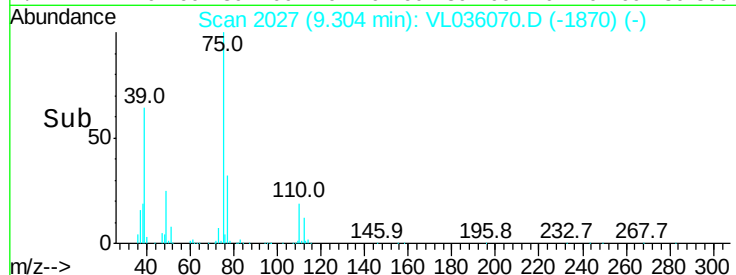
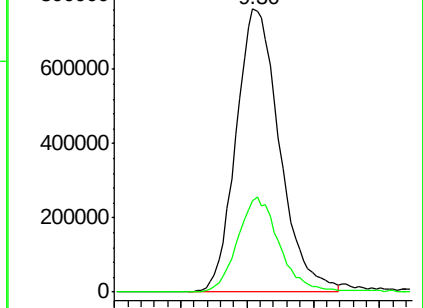
75 100

77 32.3 26.0 39.0



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 22.314 ppbv

RT: 8.73 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

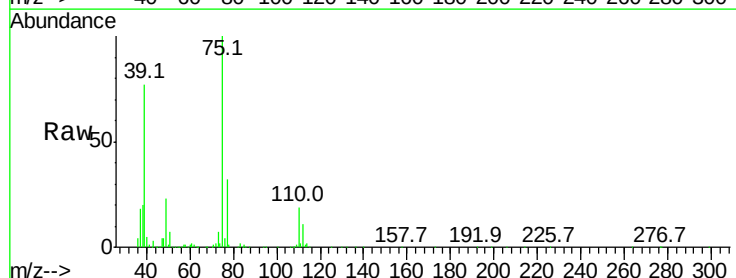
Tgt Ion: 75 Resp: 2026303

Ion Ratio Lower Upper

75 100

39 76.4 61.6 92.4

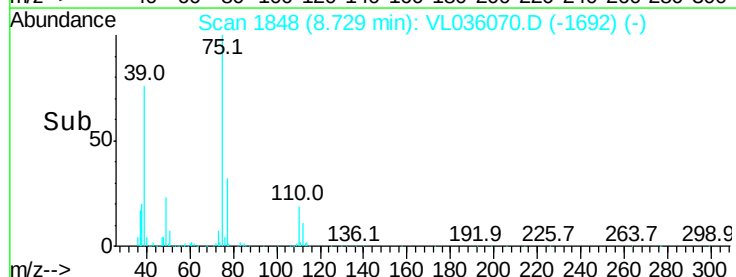
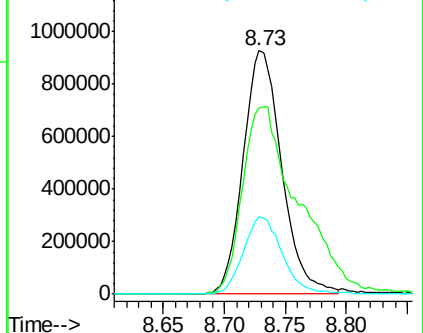
77 31.6 23.0 34.6

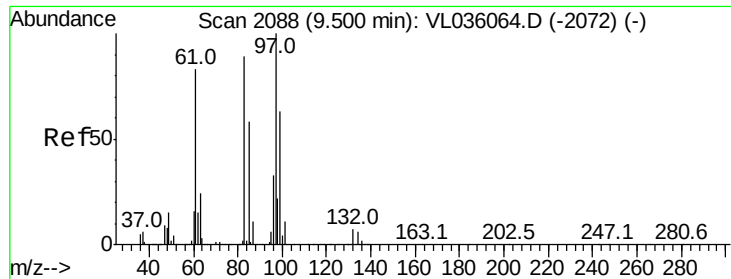


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

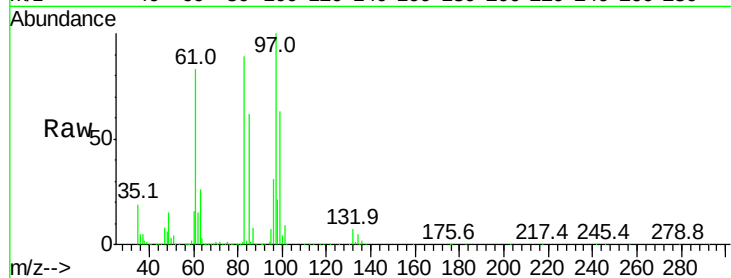




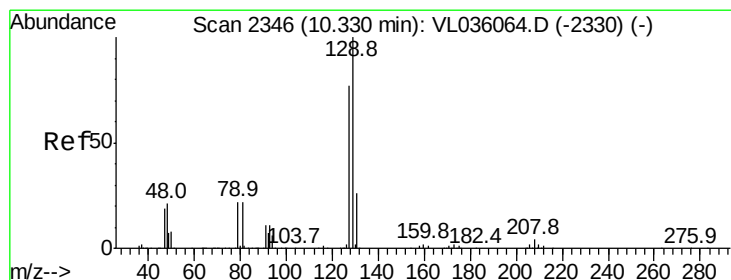
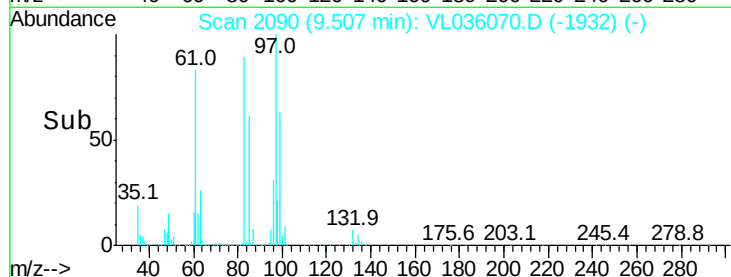
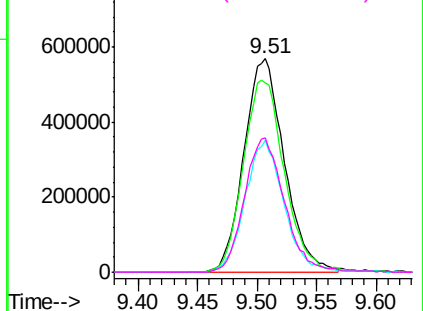
#47  
 1,1,2-Trichloroethane  
 Concen: 14.153 ppbv  
 RT: 9.51 min Scan# 2090  
 Delta R.T. 0.01 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Tgt Ion: 97 Resp: 1337264  
 Ion Ratio Lower Upper  
 97 100  
 83 88.9 71.4 107.2  
 85 61.5 46.6 70.0  
 99 62.9 50.7 76.1

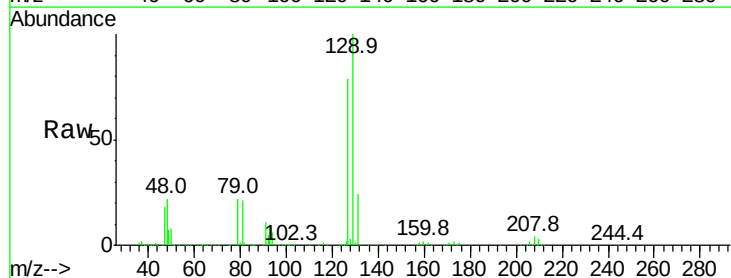


Abundance Ion 97.00 (96.70 to 97.70): VL0  
 Ion 83.00 (82.70 to 83.70): VL0  
 Ion 85.00 (84.70 to 85.70): VL0  
 Ion 99.00 (98.70 to 99.70): VL0

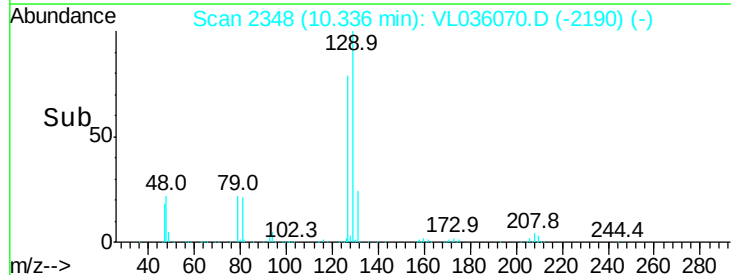
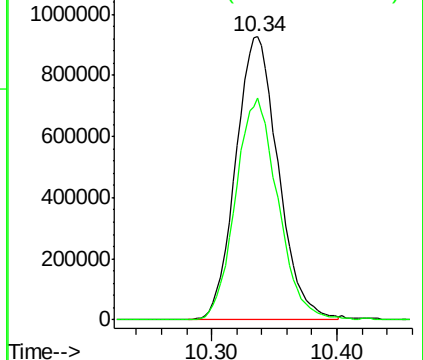


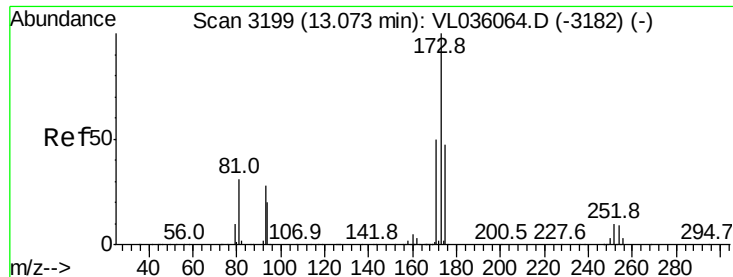
#48  
 Dibromochloromethane  
 Concen: 16.423 ppbv  
 RT: 10.34 min Scan# 2348  
 Delta R.T. 0.01 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

Tgt Ion: 129 Resp: 2183722  
 Ion Ratio Lower Upper  
 129 100  
 127 78.5 39.0 117.0



Abundance Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 18.128 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

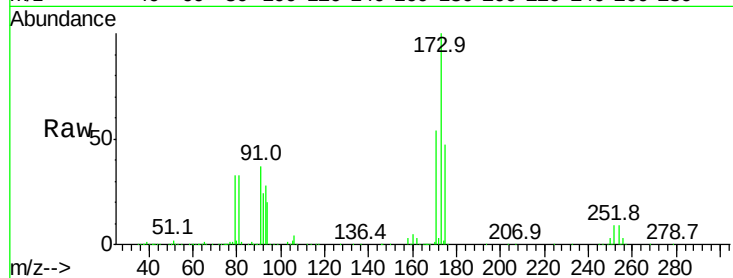
MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion:173 Resp: 1788277

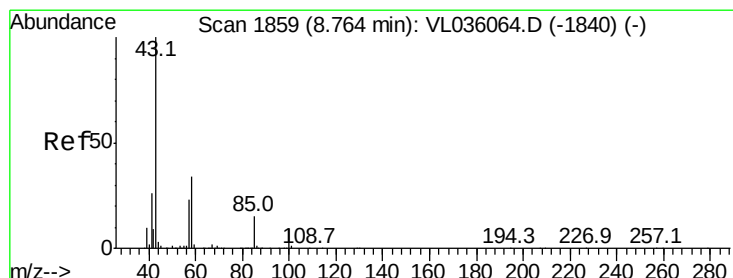
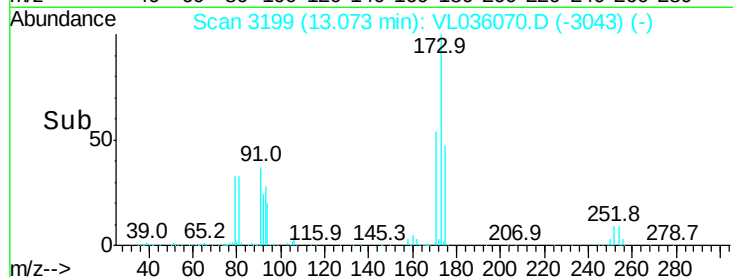
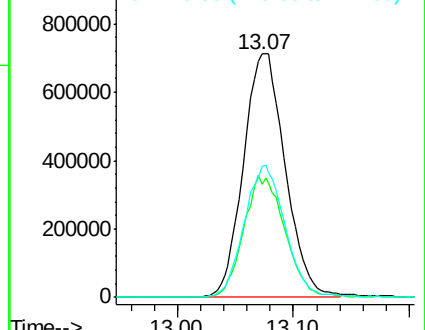
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 49.5  | 39.8  | 59.6  |
| 171 | 53.2  | 42.5  | 63.7  |



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: 27.140 ppbv

RT: 8.77 min Scan# 1860

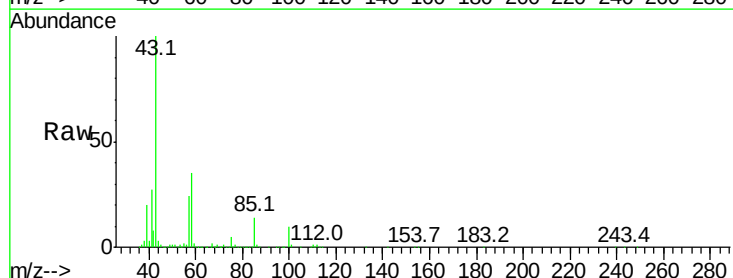
Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

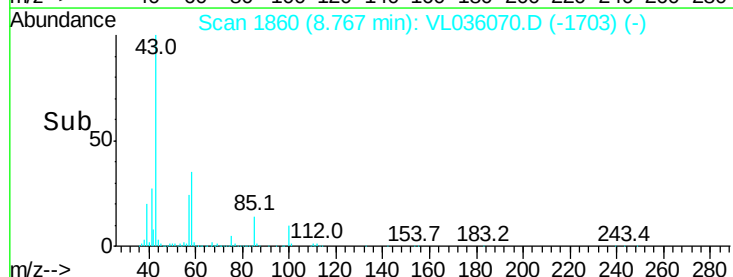
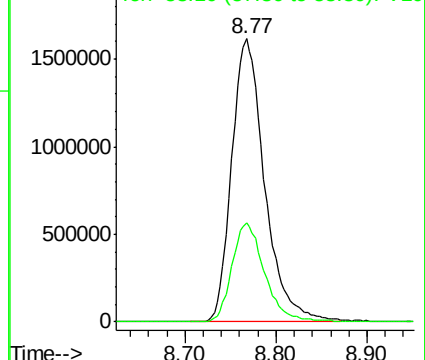
Tgt Ion: 43 Resp: 4067437

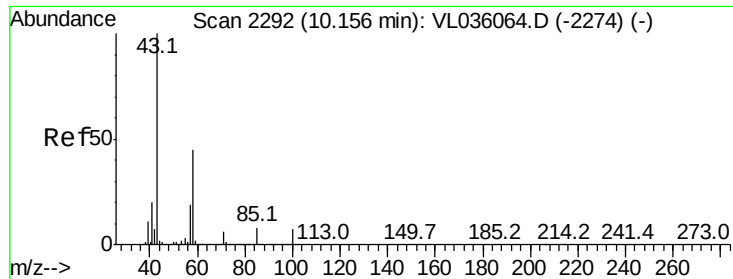
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 34.7  | 27.4  | 41.2  |



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

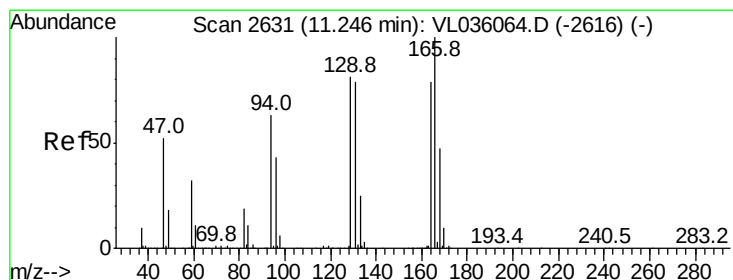
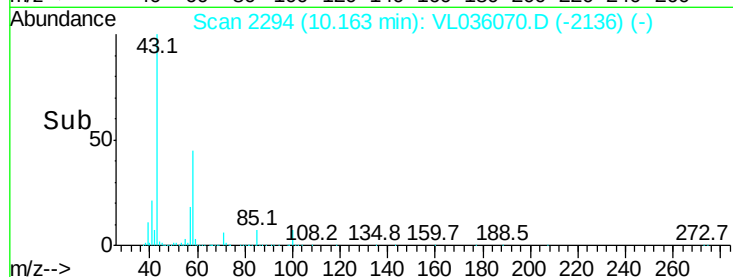
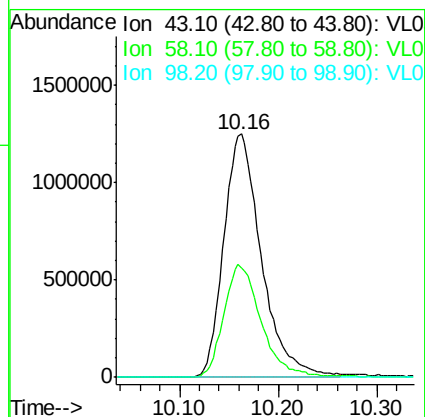
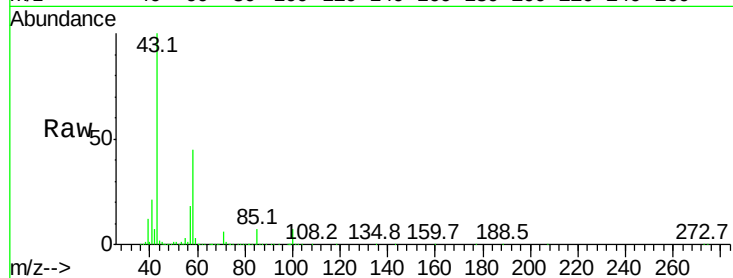




#51  
2-Hexanone  
Concen: 30.519 ppbv  
RT: 10.16 min Scan# 2294  
Delta R.T. 0.01 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

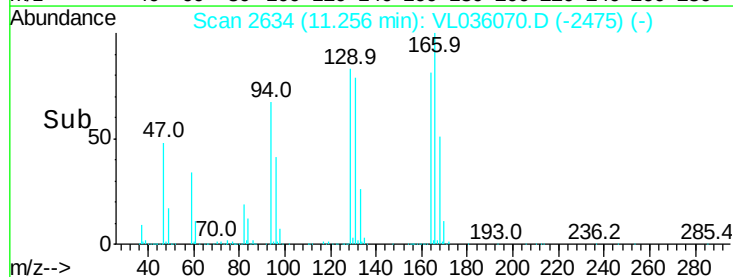
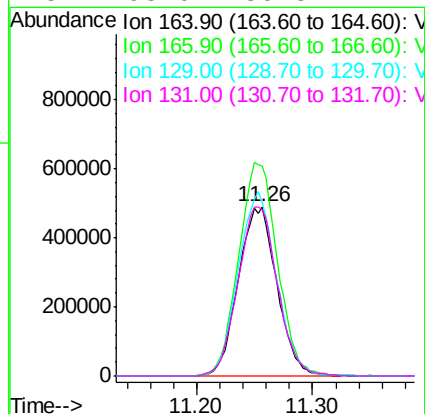
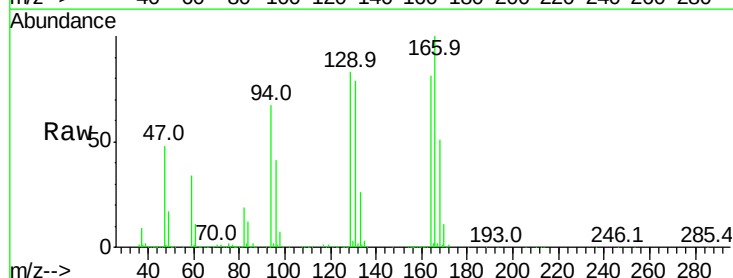
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

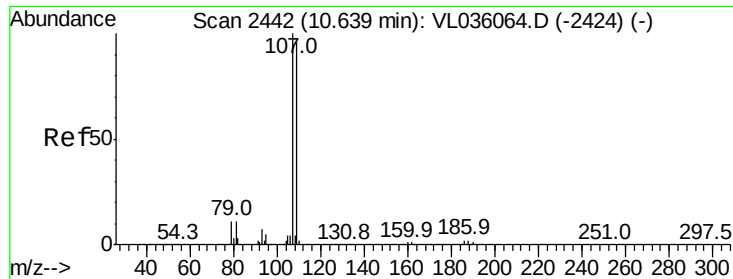
Tgt Ion: 43 Resp: 3309588  
Ion Ratio Lower Upper  
43 100  
58 46.8 38.7 58.1  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 14.857 ppbv  
RT: 11.26 min Scan# 2634  
Delta R.T. 0.01 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

Tgt Ion: 164 Resp: 1133239  
Ion Ratio Lower Upper  
164 100  
166 123.7 101.9 152.9  
129 102.3 82.1 123.1  
131 98.0 80.8 121.2

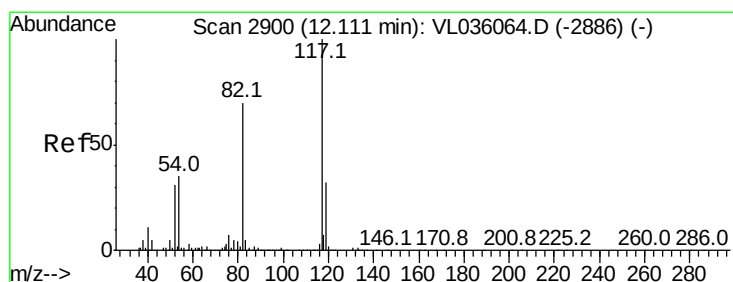
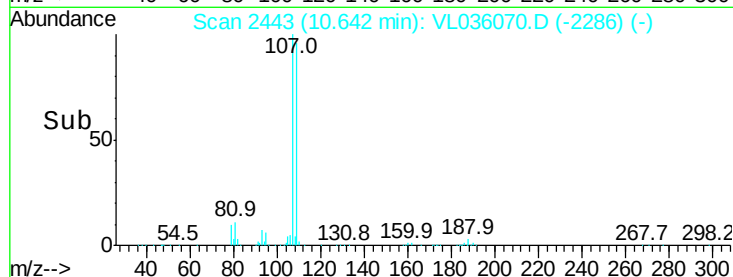
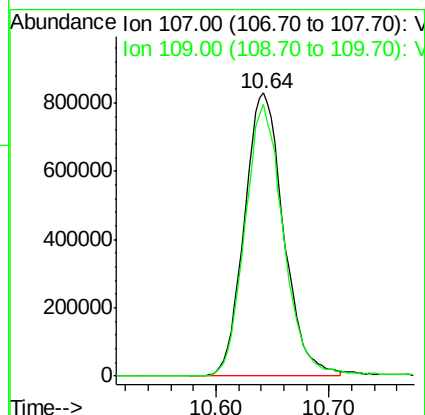
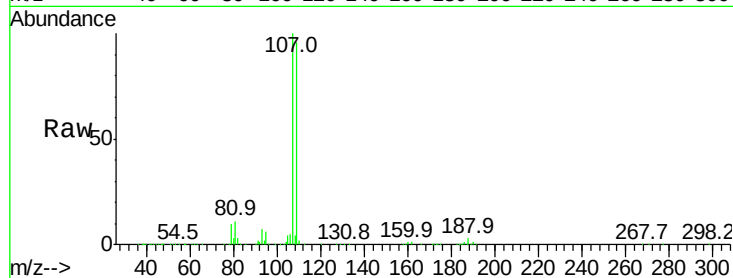




#54  
1,2-Dibromoethane  
Concen: 14.930 ppbv  
RT: 10.64 min Scan# 2443  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

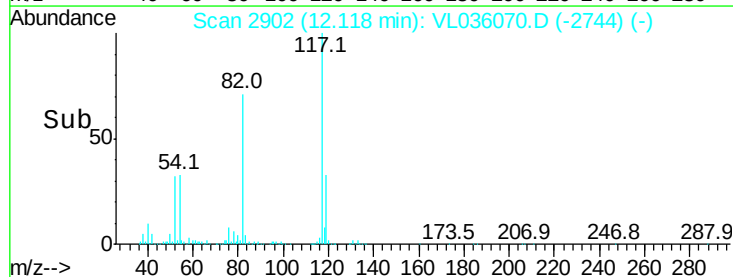
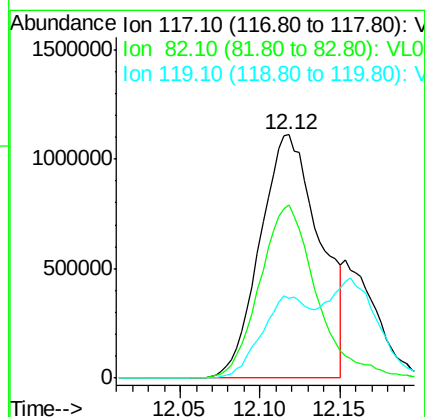
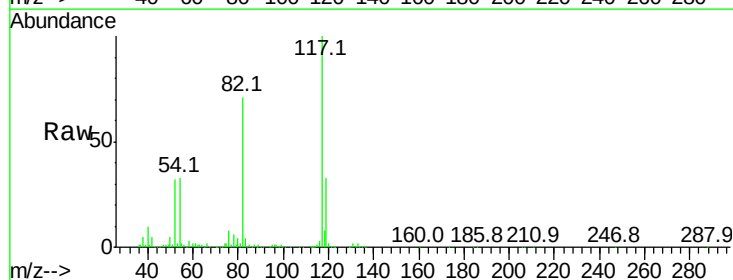
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

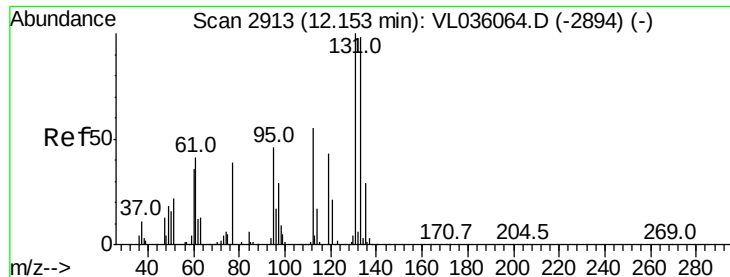
Tgt Ion:107 Resp: 2000998  
Ion Ratio Lower Upper  
107 100  
109 95.8 76.6 115.0



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.12 min Scan# 2902  
Delta R.T. 0.01 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

Tgt Ion:117 Resp: 2864618  
Ion Ratio Lower Upper  
117 100  
82 68.3 0.0 0.0#  
119 0.0 0.0 0.0





#56

1,1,1,2-Tetrachloroethane

Concen: 13.839 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

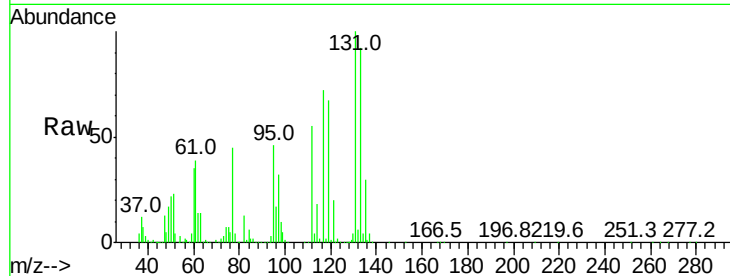
Tgt Ion:131 Resp: 1619018

Ion Ratio Lower Upper

131 100

133 96.0 77.7 116.5

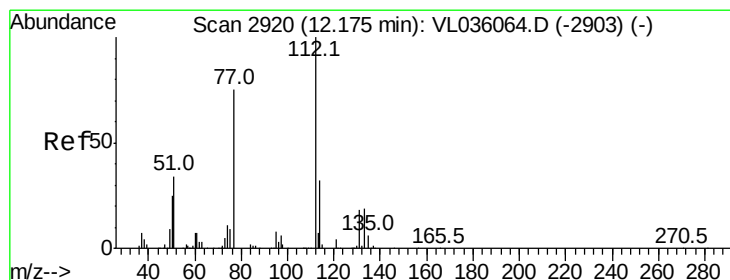
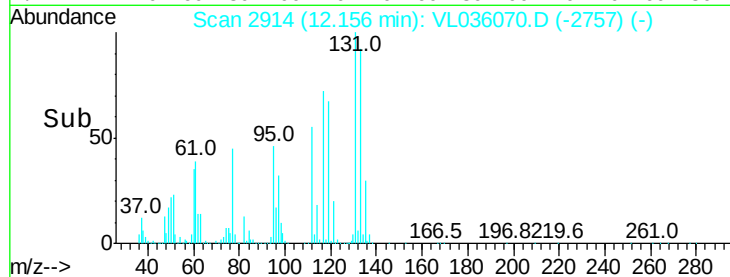
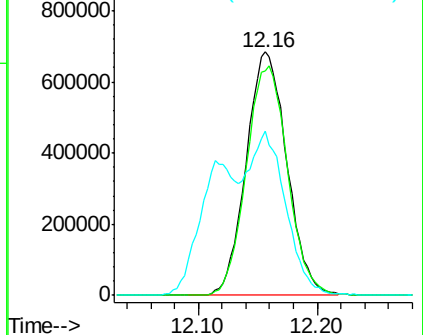
119 68.4 51.6 77.4



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 12.330 ppbv

RT: 12.18 min Scan# 2921

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

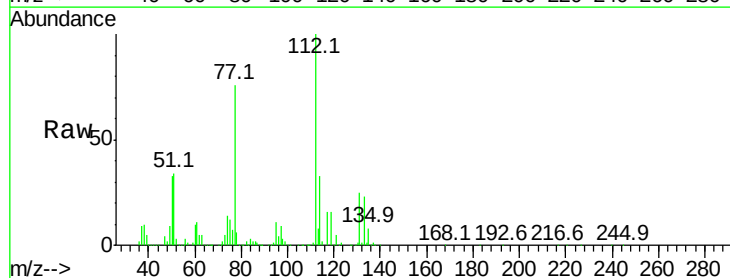
Tgt Ion:112 Resp: 2605712

Ion Ratio Lower Upper

112 100

77 75.0 60.5 90.7

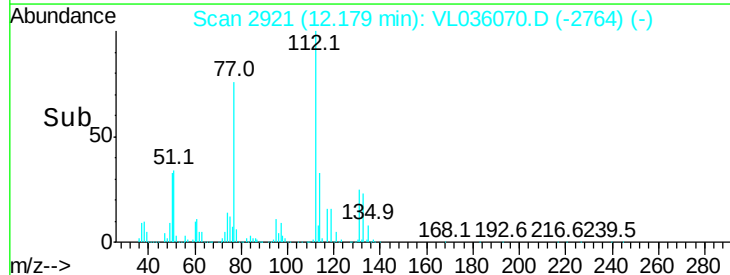
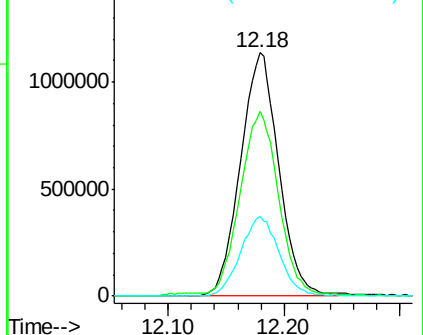
114 32.6 29.2 35.6



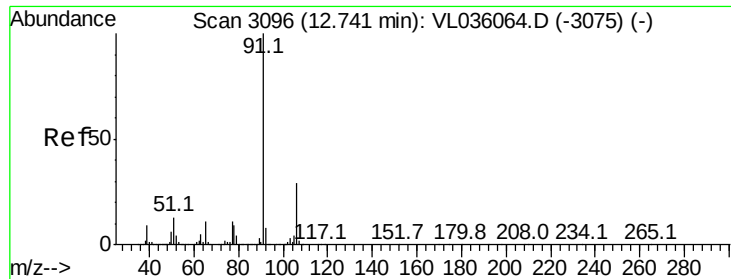
Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): V

Ion 114.10 (113.80 to 114.80): V







#58

Ethyl Benzene

Concen: 18.064 ppbv

RT: 12.74 min Scan# 3096

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

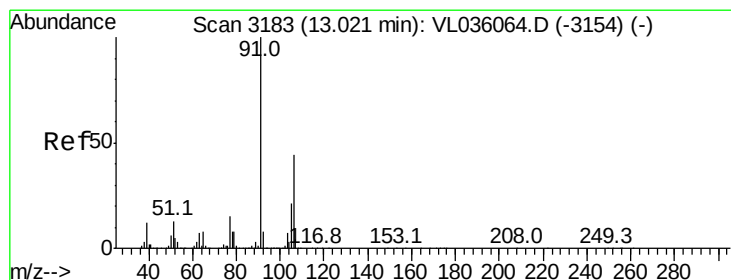
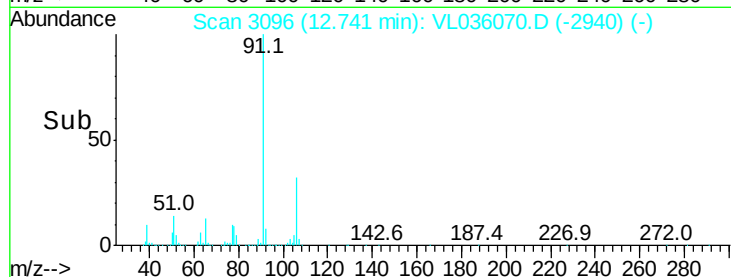
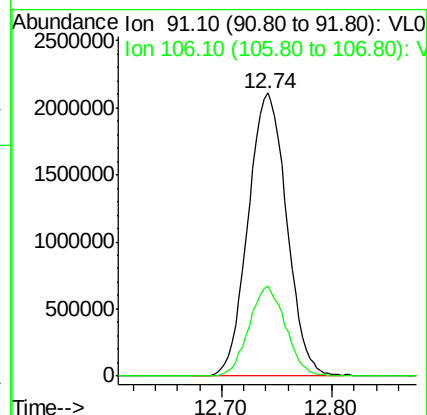
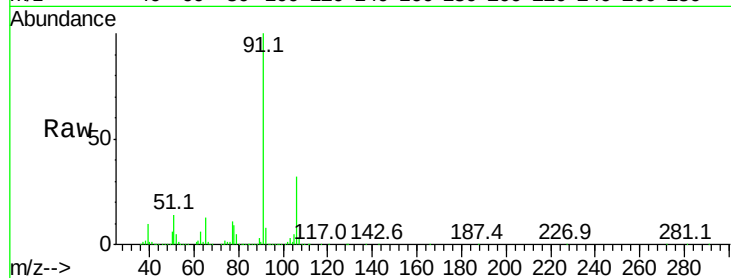
VSTDIC015

Tgt Ion: 91 Resp: 5118197

Ion Ratio Lower Upper

91 100

106 31.8 23.0 34.4



#59

m/p-Xylene

Concen: 16.605 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. 0.01 min

Lab File: VL036070.D

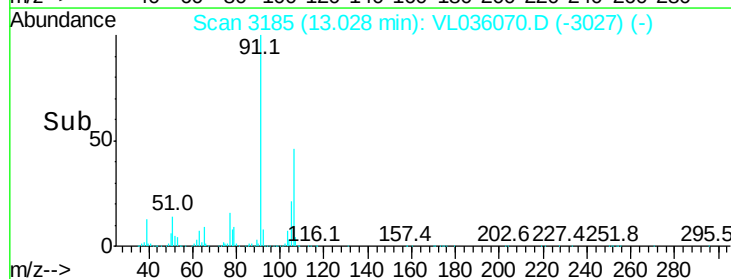
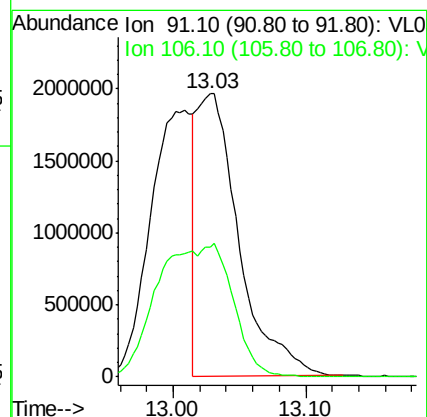
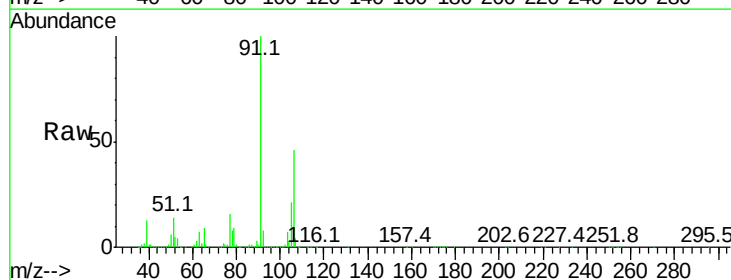
Acq: 7 Dec 2020 16:17

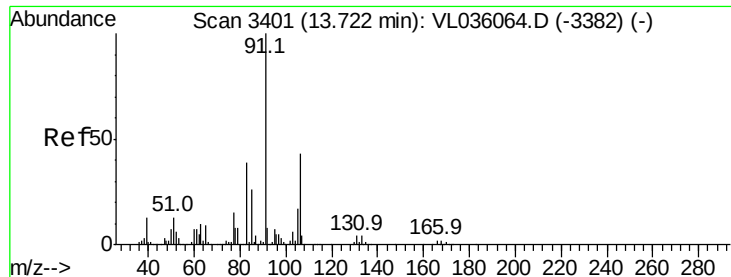
Tgt Ion: 91 Resp: 4289666

Ion Ratio Lower Upper

91 100

106 85.0 33.6 50.4#

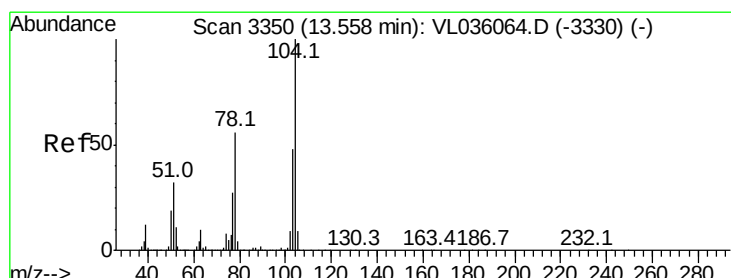
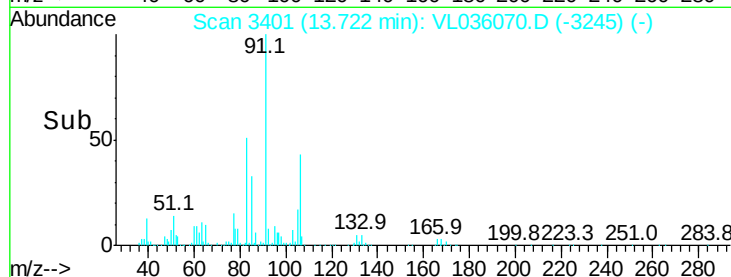
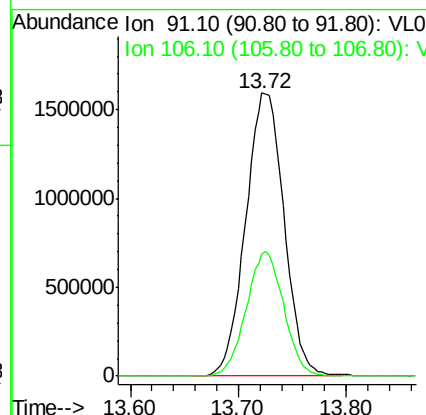
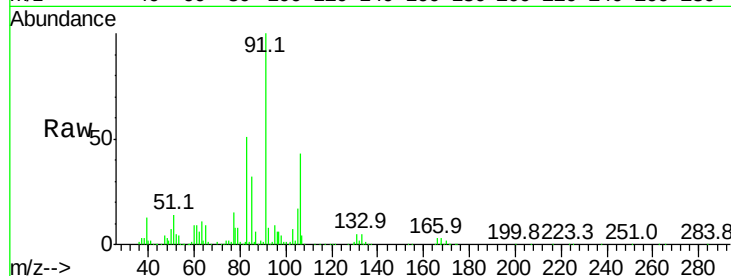




#60  
o-Xylene  
Concen: 15.129 ppbv  
RT: 13.72 min Scan# 3401  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

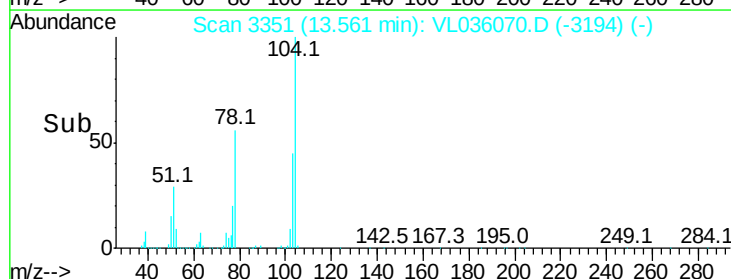
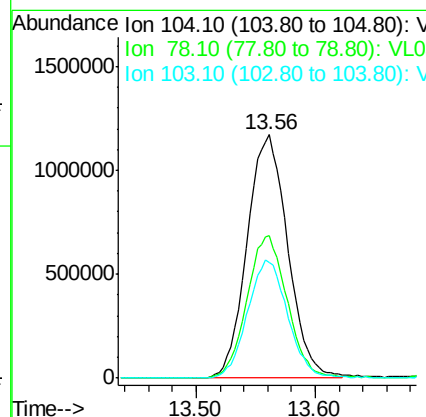
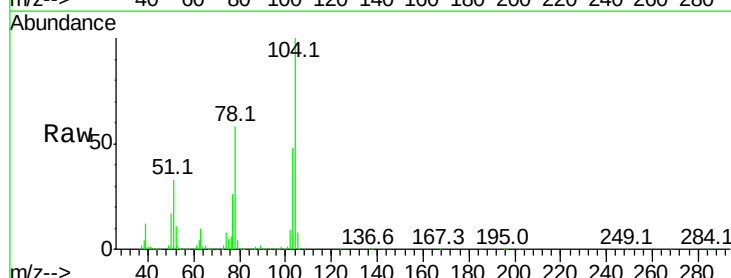
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

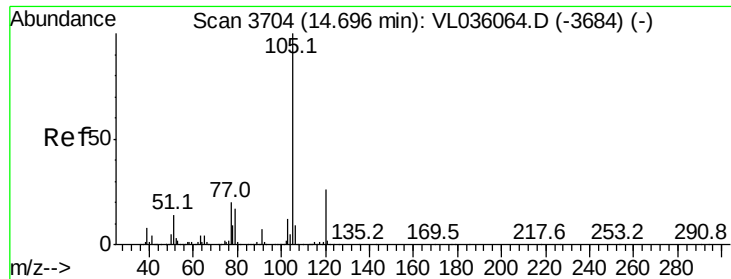
Tgt Ion: 91 Resp: 3944010  
Ion Ratio Lower Upper  
91 100  
106 43.0 21.6 64.6



#61  
Styrene  
Concen: 18.778 ppbv  
RT: 13.56 min Scan# 3351  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

Tgt Ion: 104 Resp: 2772765  
Ion Ratio Lower Upper  
104 100  
78 58.1 45.8 68.8  
103 47.9 38.6 57.8





#62

Isopropylbenzene

Concen: 14.940 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

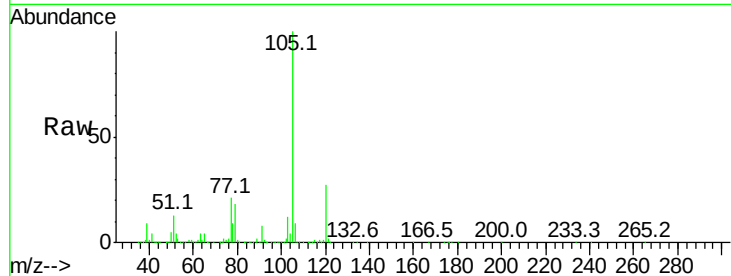
VSTDIC015

Tgt Ion:105 Resp: 5781294

Ion Ratio Lower Upper

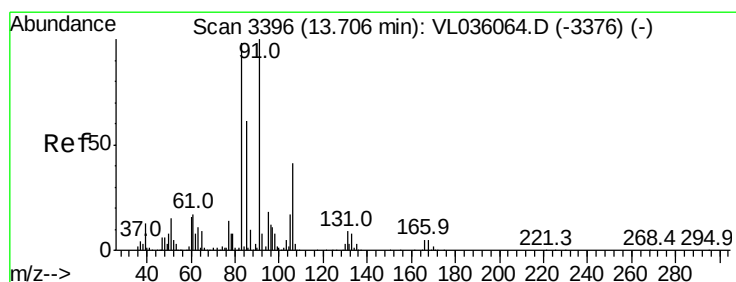
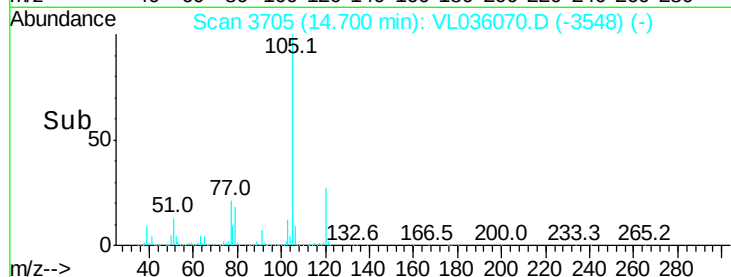
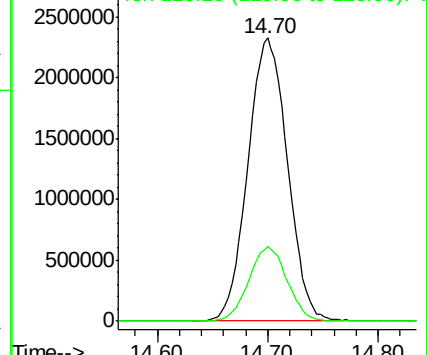
105 100

120 25.4 20.1 30.1



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: 11.743 ppbv

RT: 13.71 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

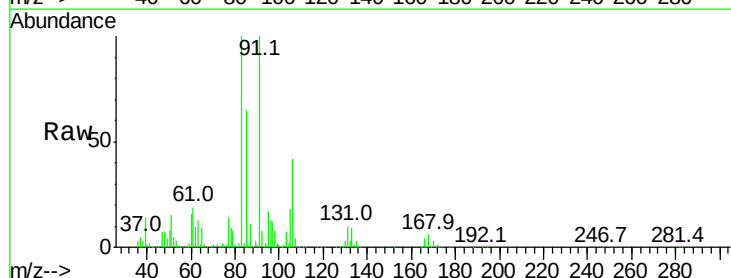
Tgt Ion: 83 Resp: 2566047

Ion Ratio Lower Upper

83 100

131 9.2 4.6 13.8

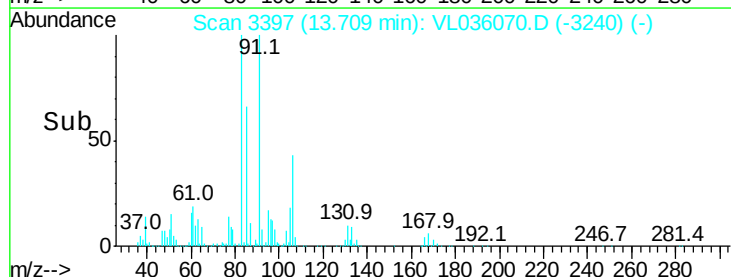
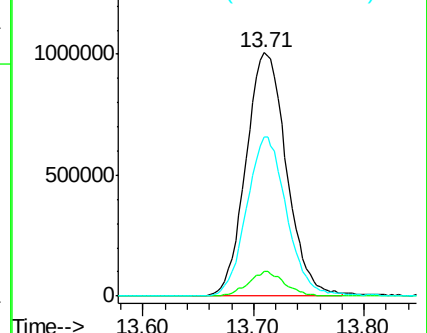
85 65.1 32.5 97.5

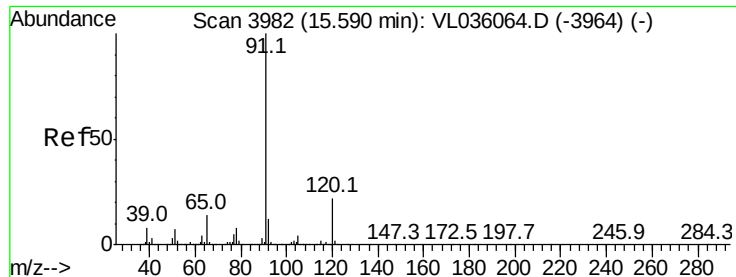


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0





#64

n-propylbenzene

Concen: 14.389 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

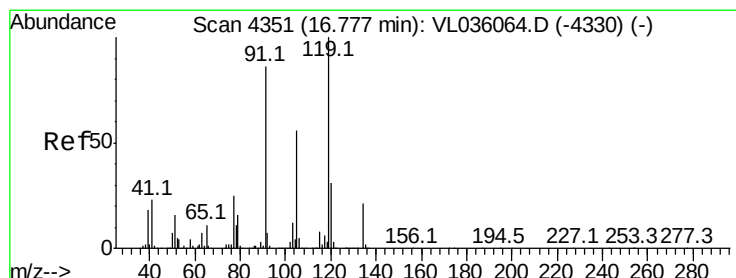
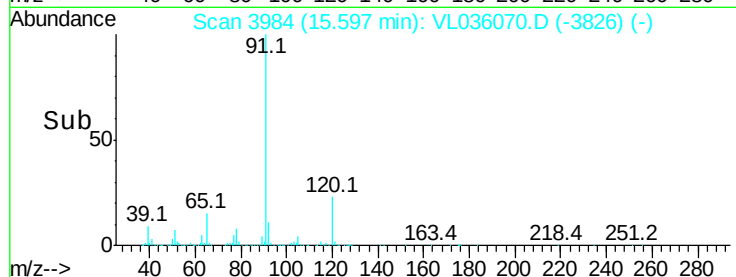
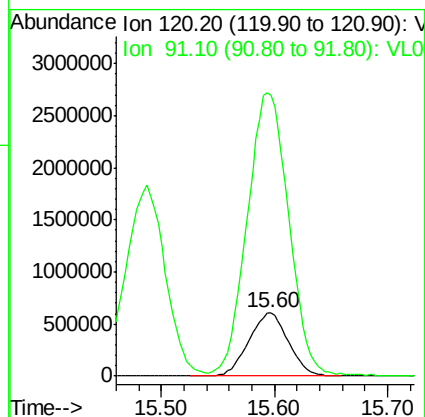
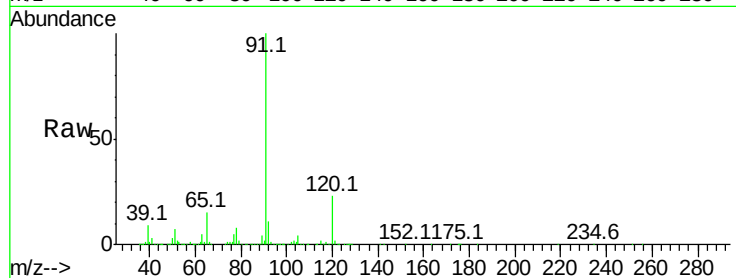
VSTDIC015

Tgt Ion:120 Resp: 1465853

Ion Ratio Lower Upper

120 100

91 474.3 388.9 583.3



#65

tert-Butylbenzene

Concen: 14.583 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

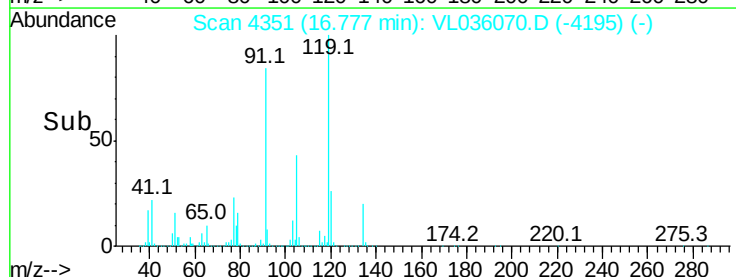
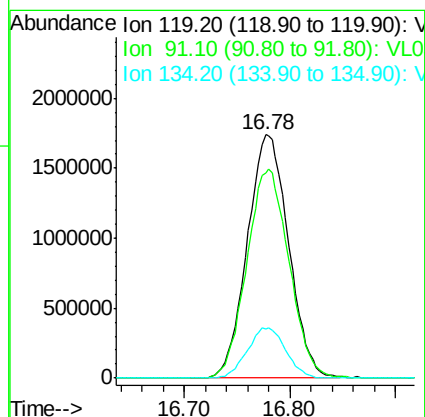
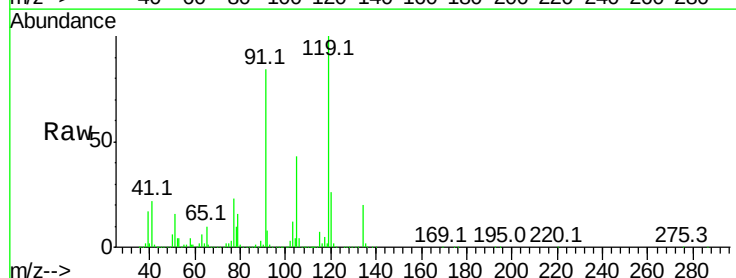
Tgt Ion:119 Resp: 4730990

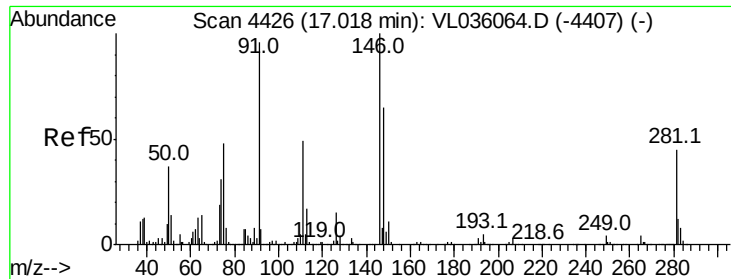
Ion Ratio Lower Upper

119 100

91 88.0 70.2 105.2

134 19.3 15.8 23.6

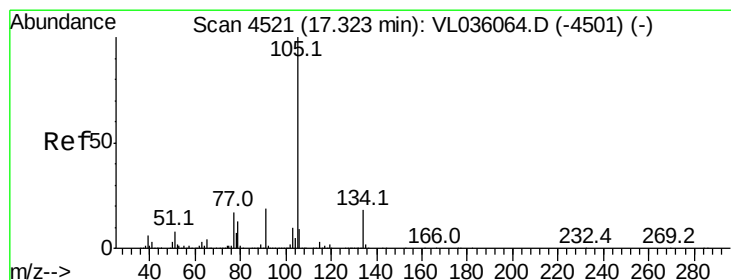
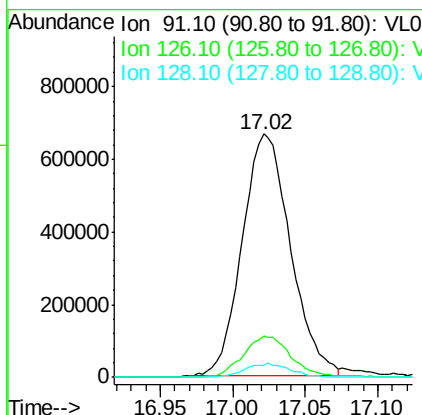
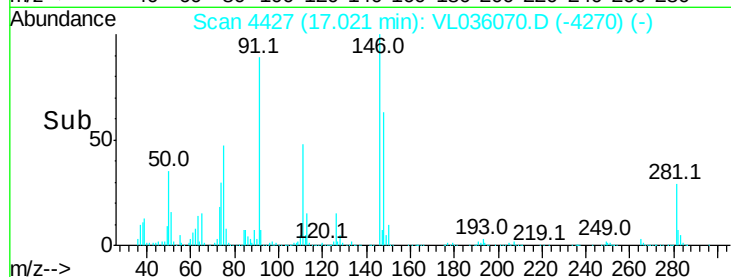
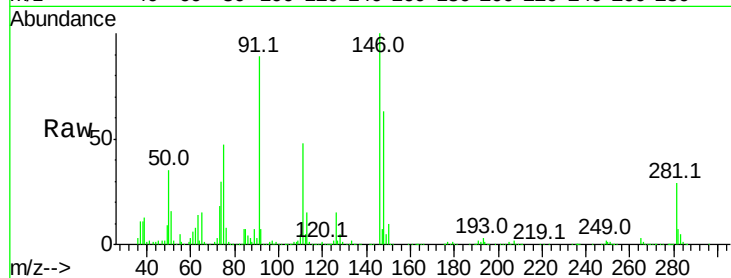




#66  
Benzyl Chloride  
Concen: 19.828 ppbv  
RT: 17.02 min Scan# 4427  
Delta R.T. 0.00 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

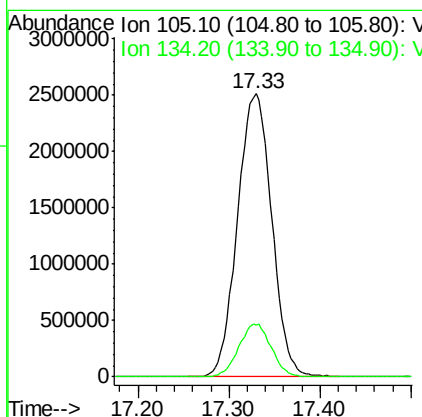
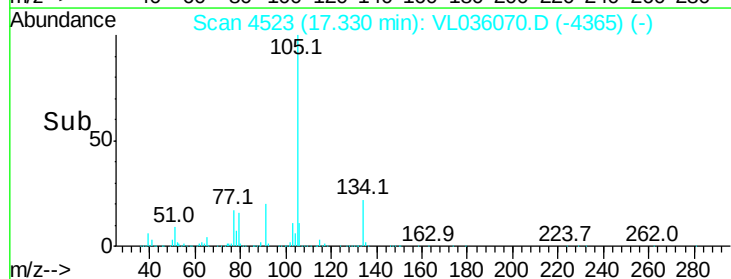
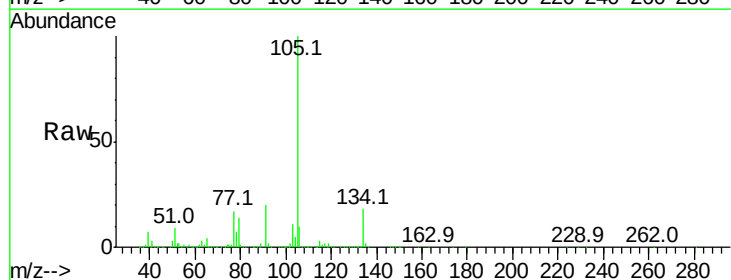
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

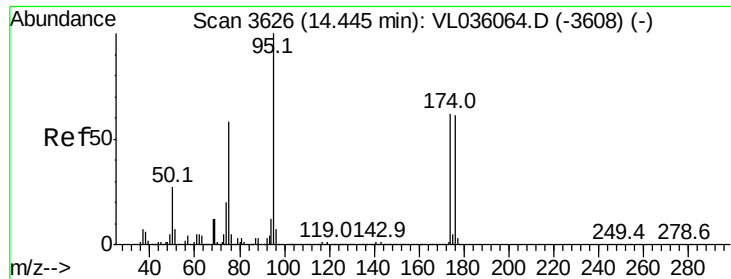
Tgt Ion: 91 Resp: 1549299  
Ion Ratio Lower Upper  
91 100  
126 17.4 13.5 20.3  
128 5.4 4.4 6.6



#67  
sec-Butylbenzene  
Concen: 14.821 ppbv  
RT: 17.33 min Scan# 4523  
Delta R.T. 0.01 min  
Lab File: VL036070.D  
Acq: 7 Dec 2020 16:17

Tgt Ion: 105 Resp: 6567282  
Ion Ratio Lower Upper  
105 100  
134 17.8 14.2 21.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.115 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

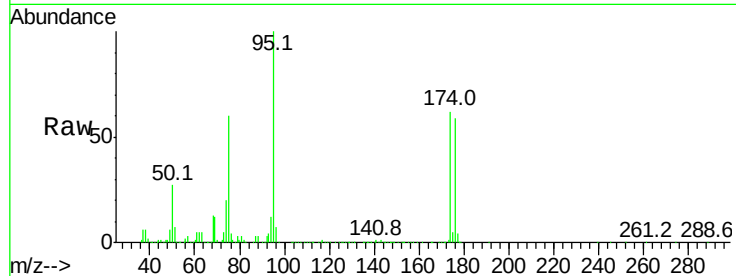
Tgt Ion: 95 Resp: 2214030

Ion Ratio Lower Upper

95 100

174 61.1 50.7 76.1

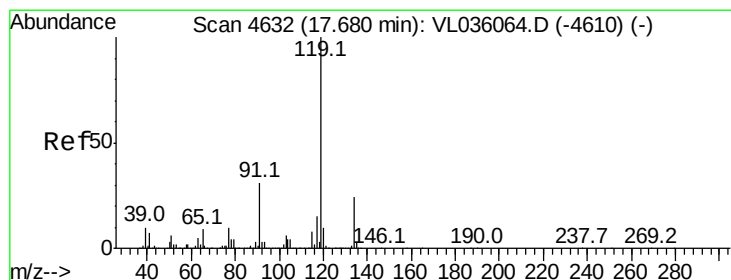
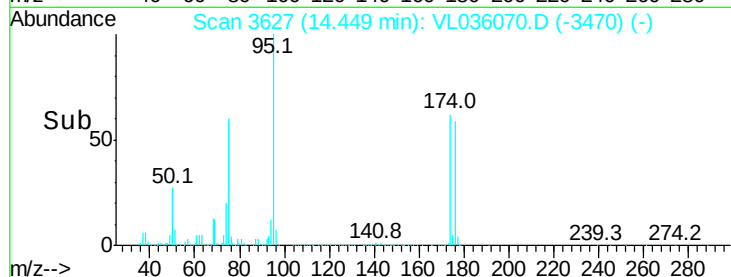
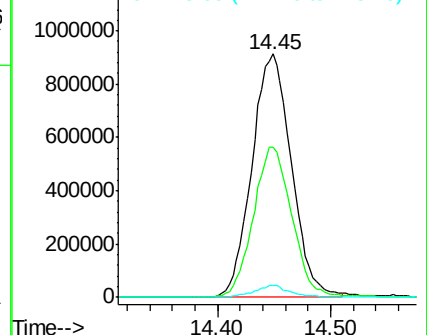
175 4.5 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL036064.D (-3608) (-)

Ion 174.00 (173.70 to 174.70): VL036064.D (-3608) (-)

Ion 175.00 (174.70 to 175.70): VL036064.D (-3608) (-)



#69

p-Isopropyltoluene

Concen: 16.008 ppbv

RT: 17.69 min Scan# 4634

Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

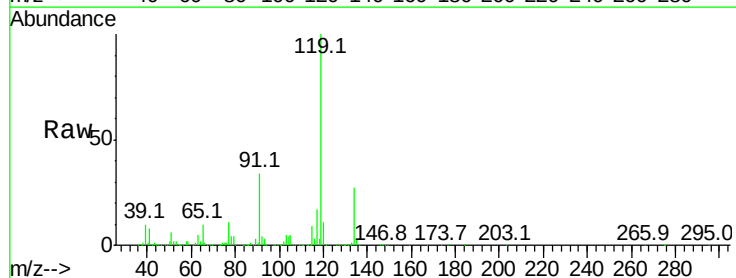
Tgt Ion: 119 Resp: 5355817

Ion Ratio Lower Upper

119 100

134 24.9 19.8 29.6

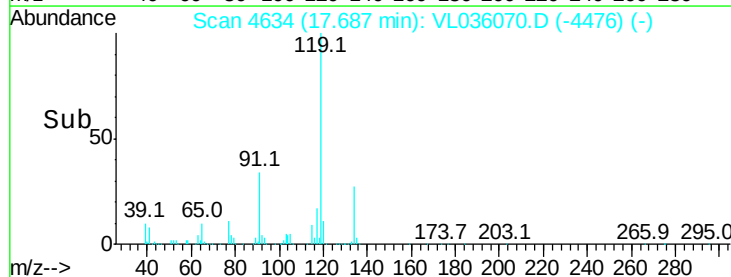
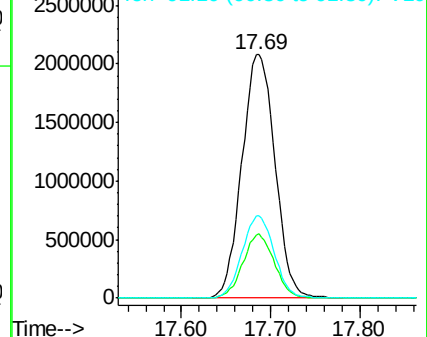
91 32.8 25.8 38.6

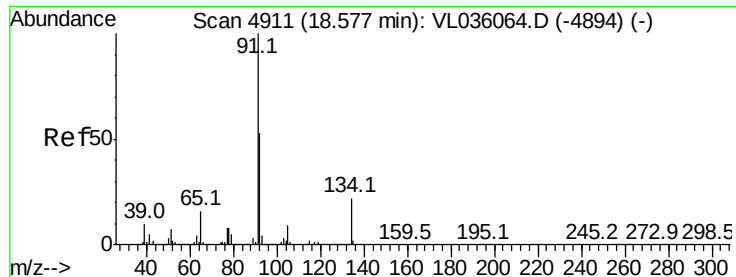


Abundance Ion 119.10 (118.80 to 119.80): VL036064.D (-4610) (-)

Ion 134.20 (133.90 to 134.90): VL036064.D (-4610) (-)

Ion 91.10 (90.80 to 91.80): VL036064.D (-4610) (-)





#70

n-Butylbenzene

Concen: 16.412 ppbv

RT: 18.58 min Scan# 4913

Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

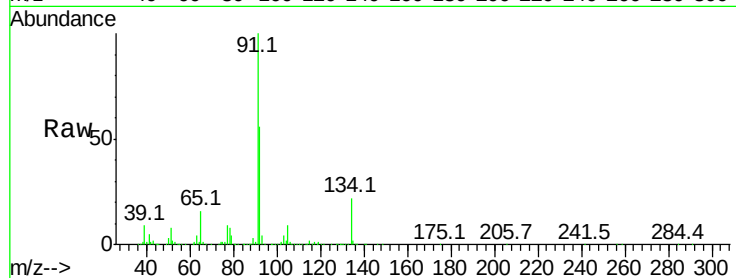
Tgt Ion: 91 Resp: 5436662

Ion Ratio Lower Upper

91 100

92 54.5 43.3 64.9

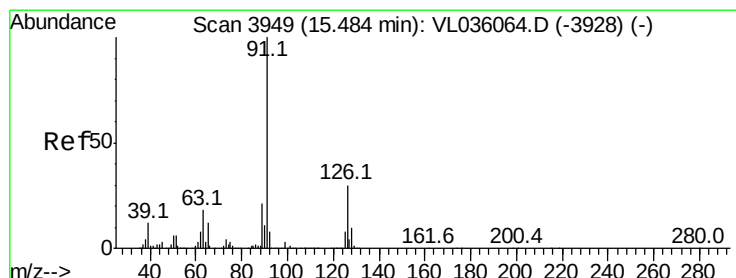
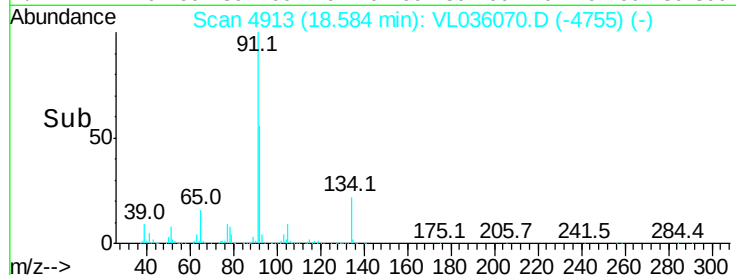
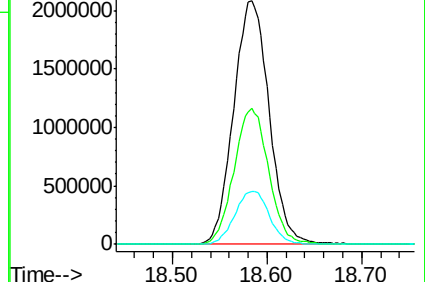
134 21.4 17.1 25.7



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: 16.687 ppbv

RT: 15.49 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VL036070.D

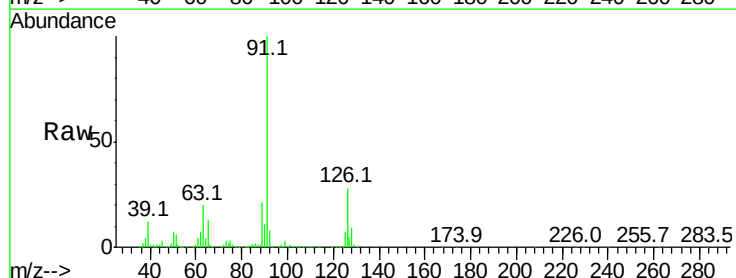
Acq: 7 Dec 2020 16:17

Tgt Ion: 91 Resp: 4442182

Ion Ratio Lower Upper

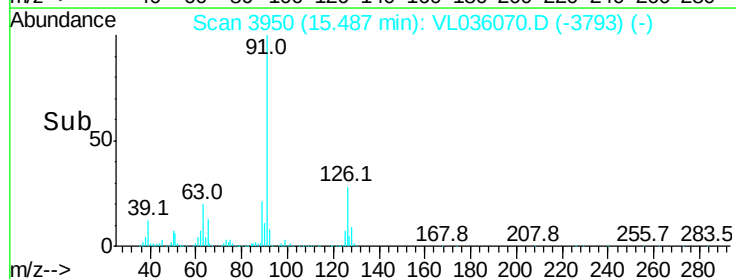
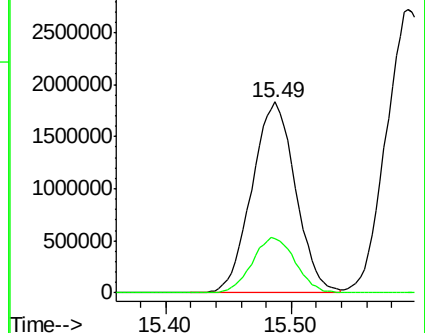
91 100

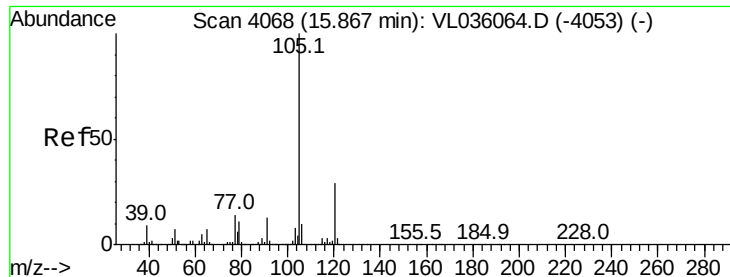
126 28.9 11.6 46.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 16.714 ppbv

RT: 15.87 min Scan# 4070

Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 4486117

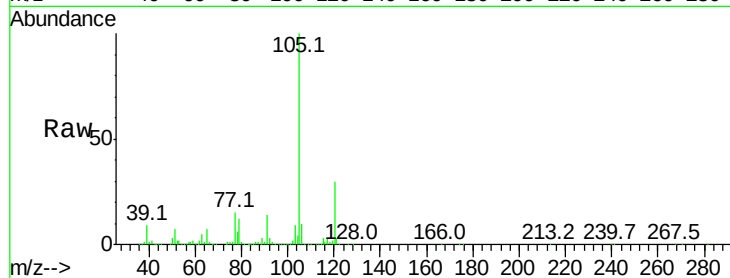
Ion Ratio Lower Upper

105 100

120 29.2 23.6 35.4

91 14.0 11.4 17.0

77 15.0 12.1 18.1

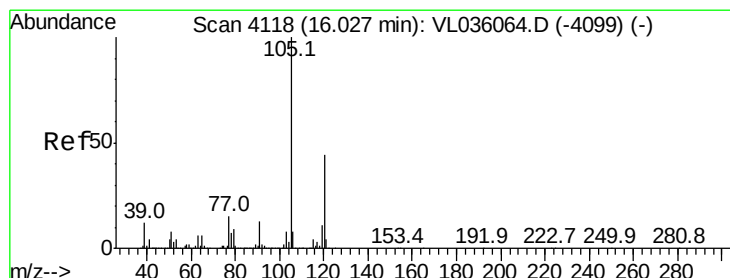
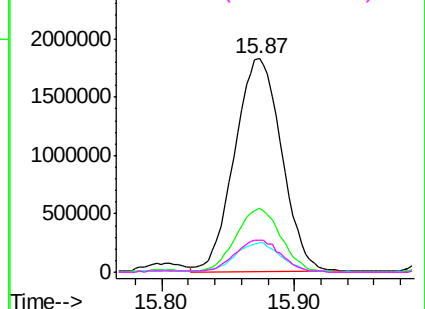
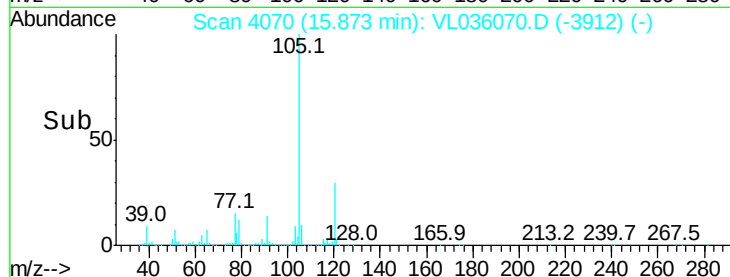


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 16.413 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VL036070.D

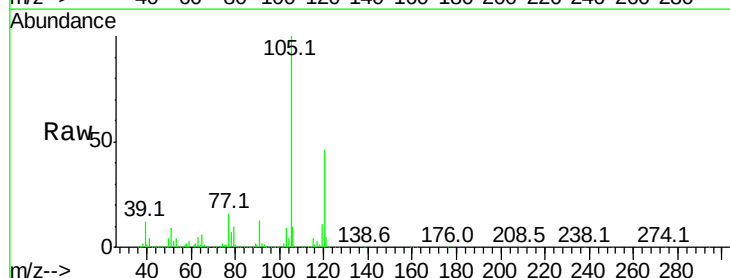
Acq: 7 Dec 2020 16:17

Tgt Ion:105 Resp: 4127926

Ion Ratio Lower Upper

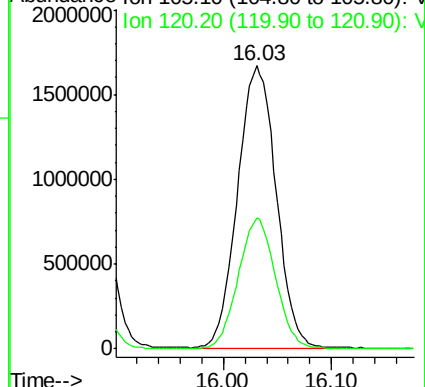
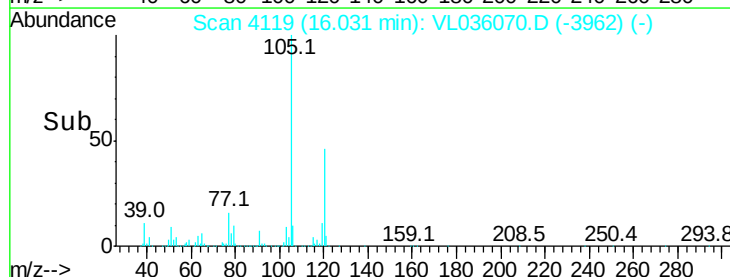
105 100

120 46.4 35.4 53.2

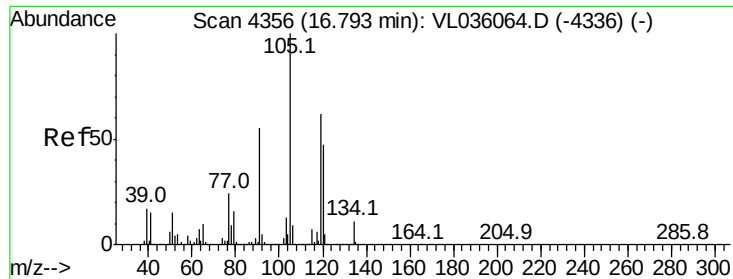


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V







#74

1,2,4-Trimethylbenzene

Concen: 14.512 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 4071969

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 45.9  | 37.4  | 56.0  |
| 91  | 49.7  | 45.6  | 68.4  |
| 77  | 23.1  | 19.4  | 29.2  |

105 100

120 45.9 37.4 56.0

91 49.7 45.6 68.4

77 23.1 19.4 29.2

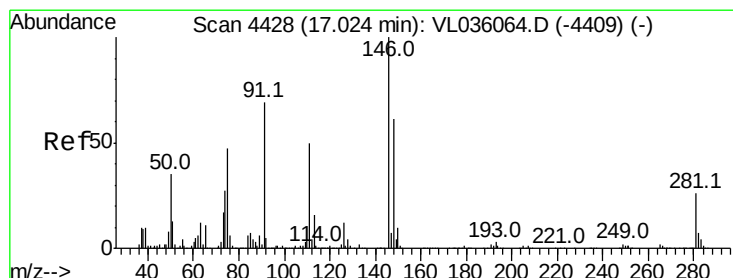
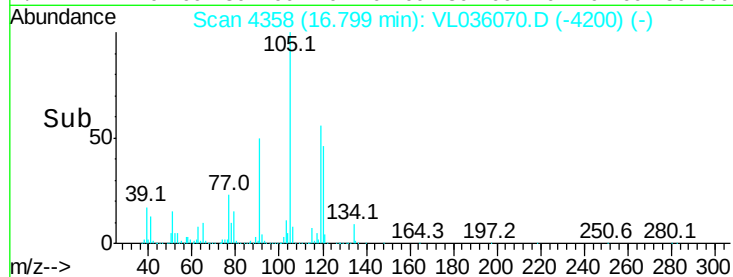
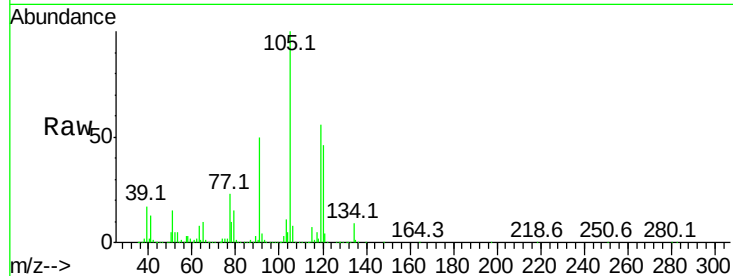
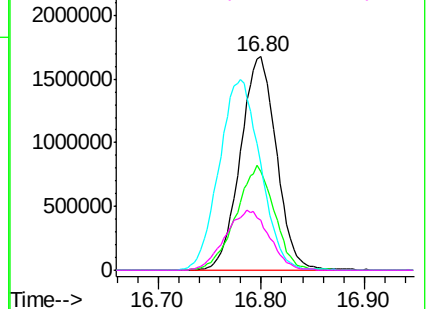
Abundance

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: 12.589 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Tgt Ion:146 Resp: 2135458

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 146 | 100   |       |       |
| 111 | 49.7  | 25.1  | 75.3  |
| 148 | 65.0  | 32.9  | 98.6  |

146 100

111 49.7 25.1 75.3

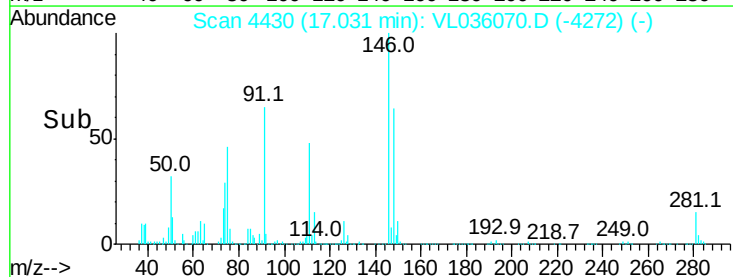
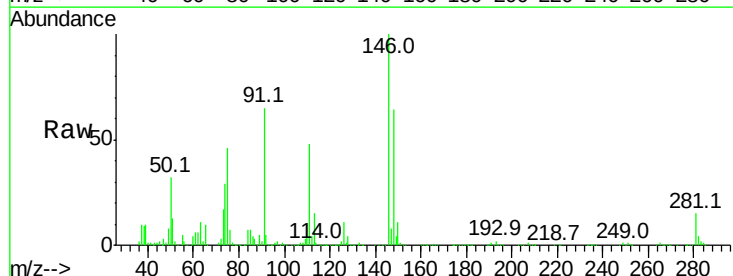
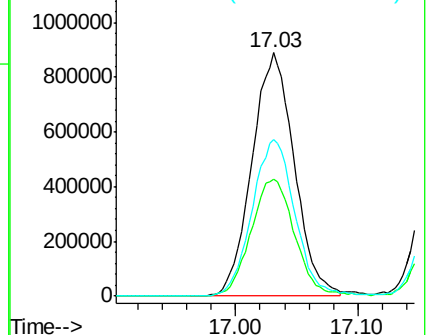
148 65.0 32.9 98.6

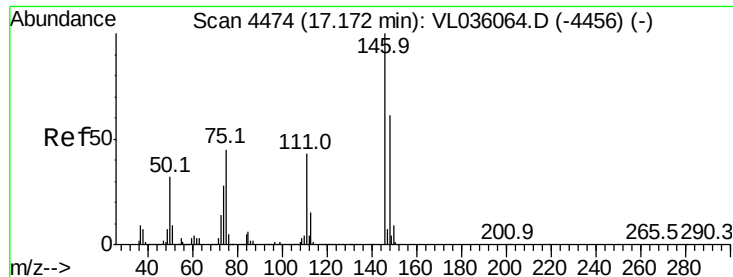
Abundance

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

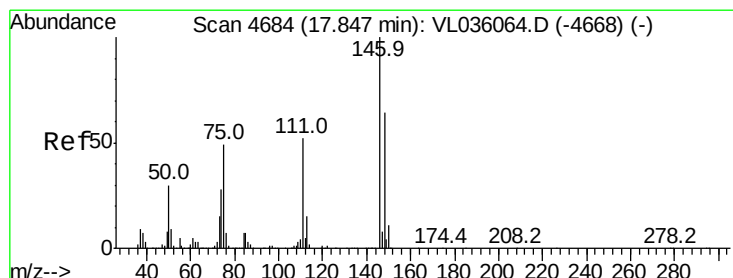
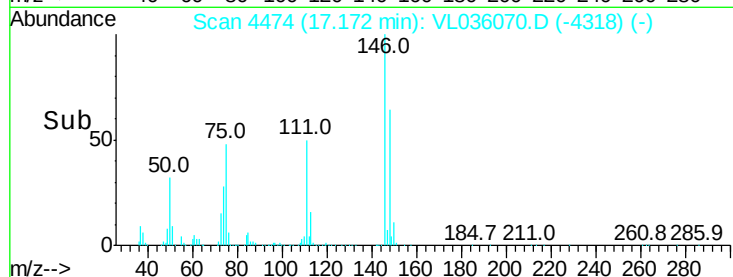
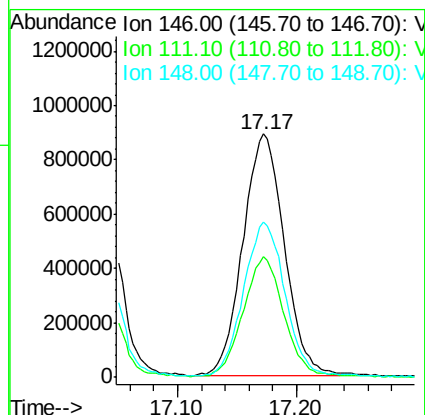
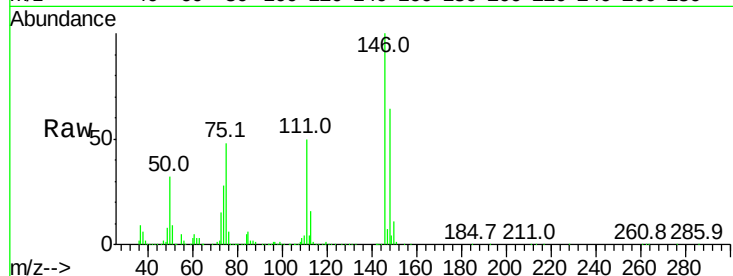




#76  
 1,4-Dichlorobenzene  
 Concen: 13.311 ppbv  
 RT: 17.17 min Scan# 4474  
 Delta R.T. 0.00 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

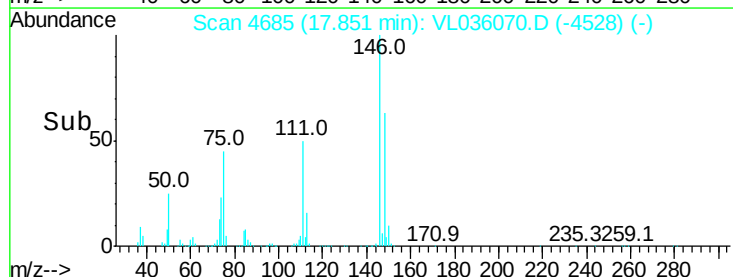
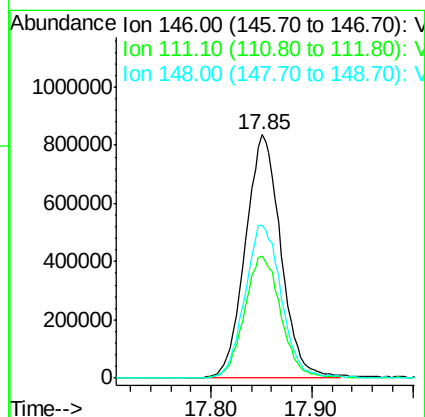
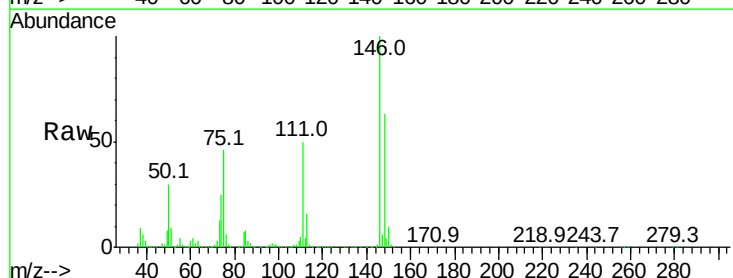
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

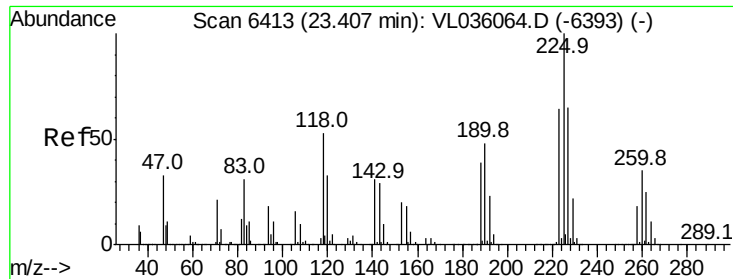
Tgt Ion:146 Resp: 2134113  
 Ion Ratio Lower Upper  
 146 100  
 111 50.7 24.3 72.8  
 148 64.7 32.8 98.3



#77  
 1,2-Dichlorobenzene  
 Concen: 13.023 ppbv  
 RT: 17.85 min Scan# 4685  
 Delta R.T. 0.00 min  
 Lab File: VL036070.D  
 Acq: 7 Dec 2020 16:17

Tgt Ion:146 Resp: 2026276  
 Ion Ratio Lower Upper  
 146 100  
 111 51.2 26.1 78.2  
 148 64.6 33.1 99.5





#78

Hexachloro-1,3-Butadiene

Concen: 18.734 ppbv

RT: 23.41 min Scan# 6415

Delta R.T. 0.01 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

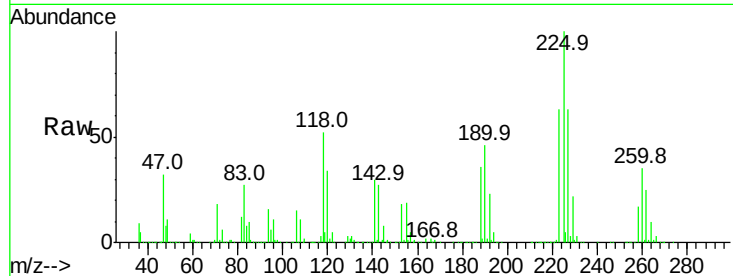
Tgt Ion:225 Resp: 1602445

Ion Ratio Lower Upper

225 100

223 62.9 51.1 76.7

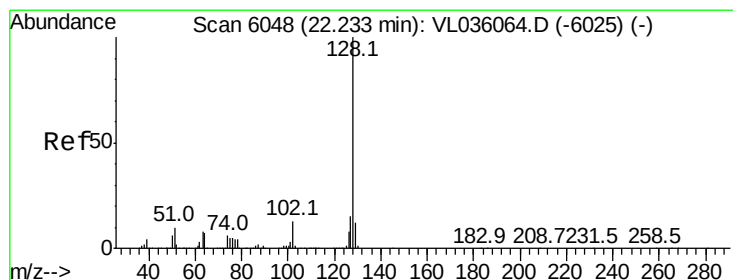
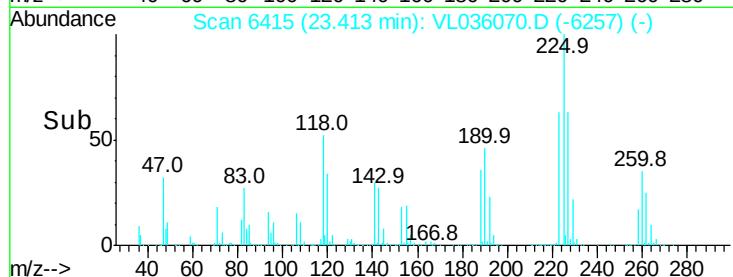
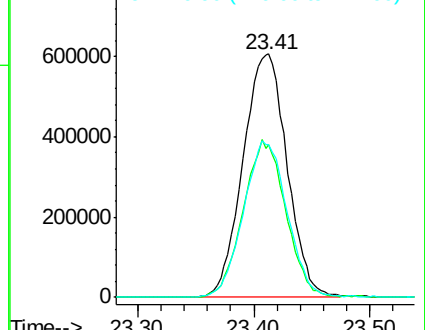
227 63.7 51.7 77.5



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 20.954 ppbv

RT: 22.24 min Scan# 6049

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

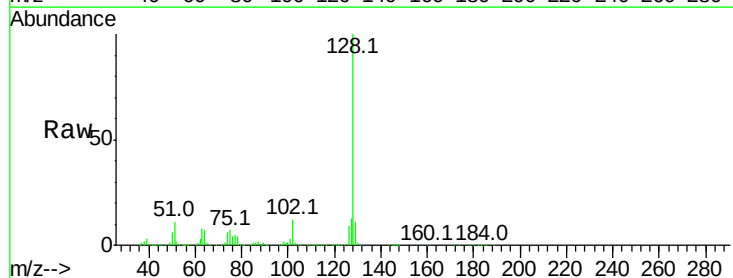
Tgt Ion:128 Resp: 2742284

Ion Ratio Lower Upper

128 100

127 13.3 11.7 17.5

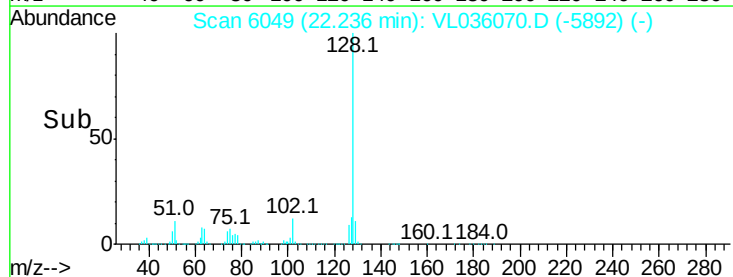
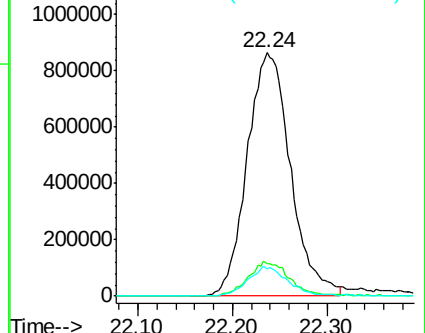
129 11.5 9.3 13.9

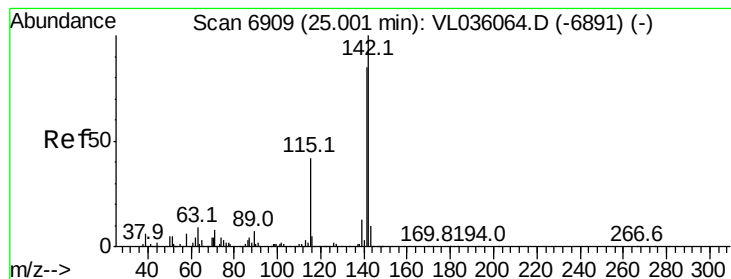


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 42.986 ppbv

RT: 25.00 min Scan# 6909

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

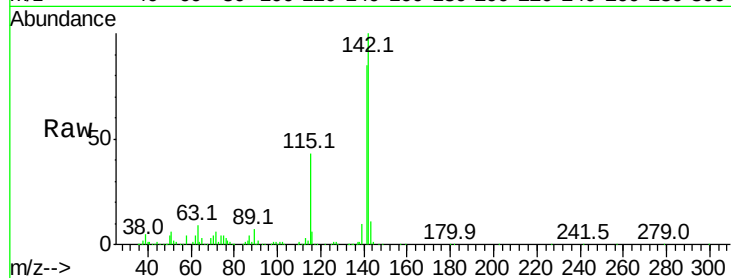
Tgt Ion:142 Resp: 1139841

Ion Ratio Lower Upper

142 100

141 84.0 64.3 96.5

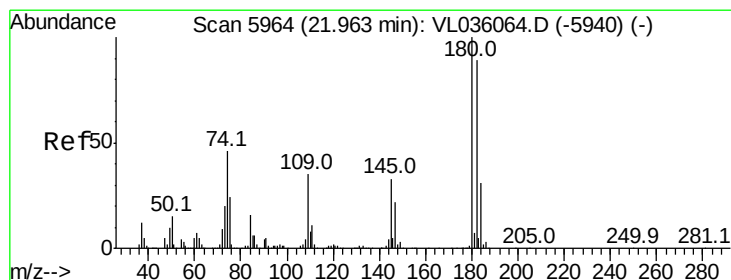
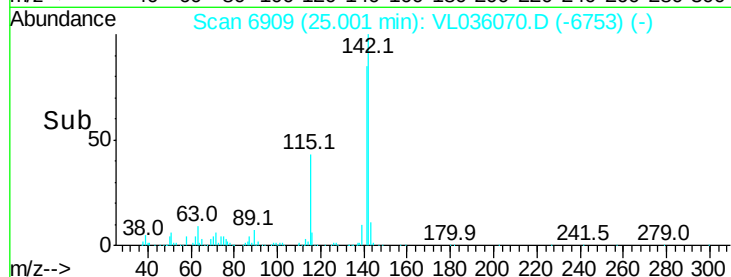
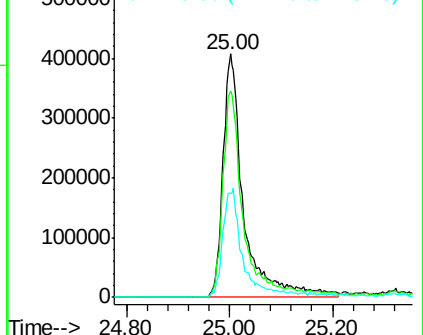
115 43.1 33.9 50.9



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 18.068 ppbv

RT: 21.97 min Scan# 5965

Delta R.T. 0.00 min

Lab File: VL036070.D

Acq: 7 Dec 2020 16:17

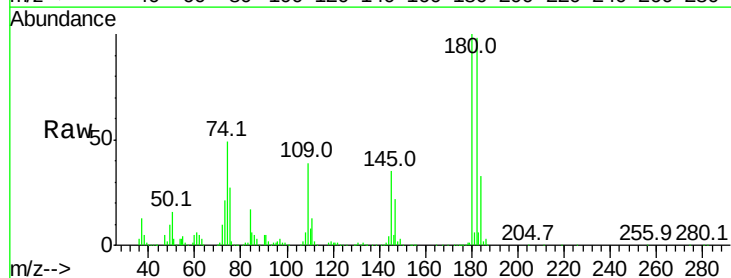
Tgt Ion:180 Resp: 1624461

Ion Ratio Lower Upper

180 100

182 99.1 0.0 0.0#

184 31.7 0.0 0.0#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

