

Data File : VL037145.D

Acq On : 14 Jun 2021 11:48

Operator : SY/AP

Sample : VSTDICCC010

Misc : 400mL/MSVOA\_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Quant Time: Jun 14 13:48:32 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL061421AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021

QLast Update : Tue May 18 12:00:15 2021

Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1603845  | 10.00 | ppbv  | 0.03     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 4731446  | 10.00 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 5546298  | 10.00 | ppbv  | 0.03     |

## System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 3375887  | 8.10     | ppbv | 0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 81.00% |

## Target Compounds

|                                |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 2329766 | 8.563  | ppbv   | 100    |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 2890198 | 9.836  | ppbv   | 96     |
| 4) Chloromethane               | 3.14 | 50  | 1008957 | 10.091 | ppbv   | 97     |
| 5) Vinyl Chloride              | 3.26 | 62  | 1086616 | 9.942  | ppbv   | 98     |
| 6) Bromomethane                | 3.48 | 94  | 642905  | 11.164 | ppbv   | 100    |
| 7) Chloroethane                | 3.56 | 64  | 394462  | 11.116 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 2644042 | 10.350 | ppbv   | 96     |
| 9) Propene                     | 3.01 | 41  | 955731  | 9.084  | ppbv   | 100    |
| 10) Heptane                    | 8.13 | 43  | 2420969 | 9.233  | ppbv   | 99     |
| 11) Trichlorofluoromethane     | 3.95 | 101 | 2853421 | 11.330 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1935468 | 10.789 | ppbv   | 96     |
| 13) Ethanol                    | 3.62 | 45  | 126308  | 8.997  | ppbv   | 96     |
| 14) Bromoethene                | 3.74 | 108 | 867762  | 10.982 | ppbv   | 100    |
| 15) Acetone                    | 3.86 | 43  | 1459232 | 8.883  | ppbv   | 98     |
| 16) 1,3-Butadiene              | 3.33 | 39  | 1061176 | 10.397 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.30 | 59  | 1838053 | 12.215 | ppbv   | 99     |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 894631  | 10.785 | ppbv   | 94     |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 1099653 | 12.453 | ppbv # | 33     |
| 20) Methylene Chloride         | 4.35 | 84  | 727853  | 8.266  | ppbv   | 96     |
| 21) Allyl Chloride             | 4.42 | 41  | 1309719 | 10.568 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 914127  | 11.499 | ppbv   | 96     |
| 23) Vinyl Acetate              | 5.08 | 43  | 2710032 | 10.393 | ppbv   | 97     |
| 24) 1,1-Dichloroethane         | 5.02 | 63  | 2014433 | 10.733 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.69 | 43  | 3750010 | 9.500  | ppbv   | 99     |
| 26) Hexane                     | 5.69 | 57  | 1809081 | 8.971  | ppbv   | 97     |
| 27) Carbon Disulfide           | 4.56 | 76  | 2129234 | 10.476 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 2378876 | 9.841  | ppbv   | 100    |
| 29) Chloroform                 | 5.76 | 83  | 2970016 | 10.425 | ppbv   | 98     |
| 30) Cyclohexane                | 7.14 | 84  | 1639553 | 9.567  | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1829907 | 10.121 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 3084719 | 10.083 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.25 | 43  | 1807841 | 10.493 | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.03 | 117 | 3304042 | 10.510 | ppbv   | 99     |
| 36) Benzene                    | 6.90 | 78  | 3830056 | 9.398  | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.32 | 62  | 2234143 | 11.057 | ppbv   | 99     |
| 38) Trichloroethene            | 7.85 | 130 | 1625333 | 9.323  | ppbv   | 97     |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1464050 | 9.325  | ppbv   | 96     |
| 40) 1,4-Dioxane                | 7.84 | 88  | 412751  | 11.134 | ppbv # | 100    |
| 41) Tetrahydrofuran            | 6.06 | 42  | 909042  | 9.264  | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.80 | 83  | 3206975 | 10.491 | ppbv   | 100    |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1424283 | 10.140 | ppbv   | 99     |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue May 18 12:00:15 2021

QLast Update : Tue May 18 12:00:15 2021

Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 6217148  | 8.892  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1439364  | 13.412 | ppbv   | 96       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1775597  | 12.301 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 1634298  | 9.946  | ppbv   | 99       |
| 48) Dibromochloromethane      | 10.32 | 129  | 2964242  | 11.141 | ppbv   | 100      |
| 49) Bromoform                 | 13.05 | 173  | 2489305  | 11.329 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2745668  | 9.658  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.15 | 43   | 1440741  | 9.586  | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.23 | 164  | 1602582  | 9.889  | ppbv   | 97       |
| 53) Toluene                   | 9.82  | 91   | 4616566  | 9.520  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 2487999  | 10.650 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 2001881  | 8.578  | ppbv # | 58       |
| 57) Chlorobenzene             | 12.16 | 112  | 3535545  | 8.221  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.72 | 91   | 6128664  | 7.829  | ppbv   | 97       |
| 59) m/p-Xylene                | 13.01 | 91   | 5128026  | 7.925  | ppbv # | 31       |
| 60) o-Xylene                  | 13.70 | 91   | 4927411  | 7.985  | ppbv   | 99       |
| 61) Styrene                   | 13.54 | 104  | 2896457  | 8.331  | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.68 | 105  | 6878649  | 7.756  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.69 | 83   | 3339575  | 7.246  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.57 | 120  | 1873106  | 8.186  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.76 | 119  | 6246771  | 7.805  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.00 | 91   | 340953   | 7.678  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.31 | 105  | 8308559  | 7.610  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 7224678  | 7.696  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.56 | 91   | 6840390  | 7.671  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 5057414  | 7.895  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 5928708  | 8.094  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 5409481  | 7.865  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.78 | 105  | 5617416  | 7.899  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 17.01 | 146  | 3528800  | 8.126  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 3494775  | 7.959  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.83 | 146  | 3400358  | 7.814  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.39 | 225  | 2191323  | 6.263  | ppbv   | 100      |
| 79) Naphthalene               | 22.21 | 128  | 4380274  | 7.850  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.98 | 142  | 1377685  | 11.354 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 2495419  | 7.336  | ppbv   | 98       |

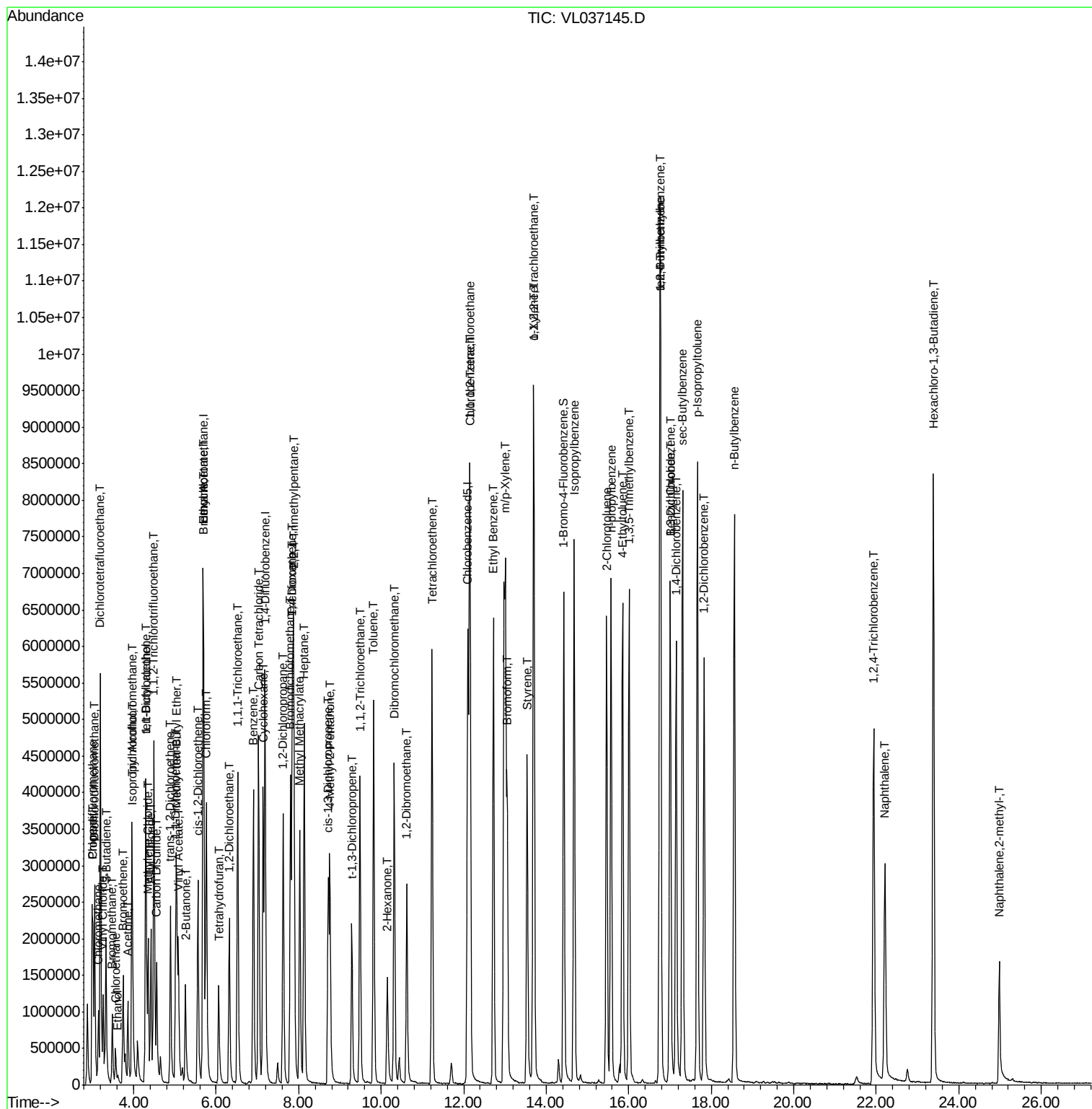
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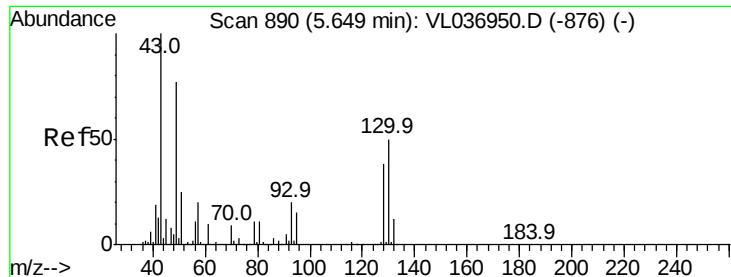
Data File : VL037145.D

```
Acq On       : 14 Jun 2021  11:48
Operator     : SY/AP
Sample       : VSTDICCC010
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ALS Vial     : 1      Sample Multipl
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**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICCC010

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL061421AIR.M  
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QLast Update : Tue May 18 12:00:15 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

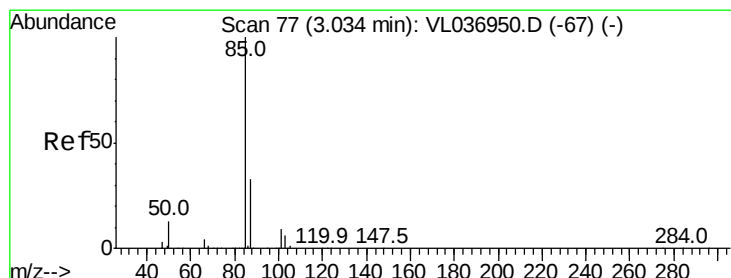
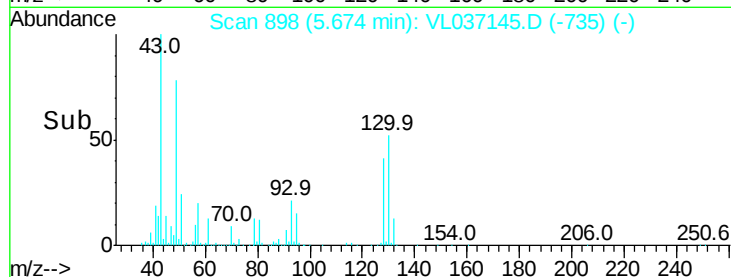
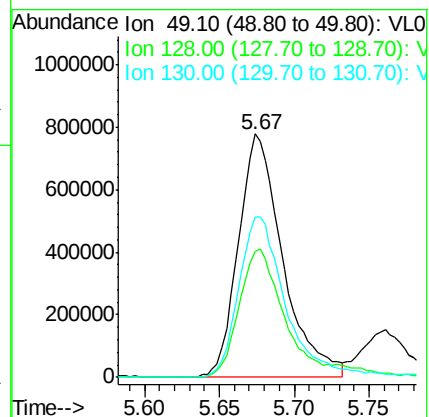
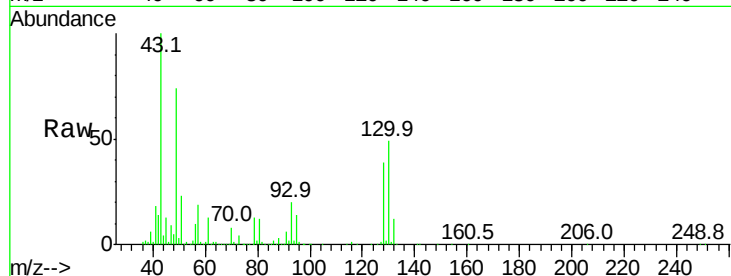
Tgt Ion: 49 Resp: 1603845

Ion Ratio Lower Upper

49 100

128 57.7 26.9 80.7

130 72.0 33.8 101.4



#2

Dichlorodifluoromethane

Concen: 8.563 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.02 min

Lab File: VL037145.D

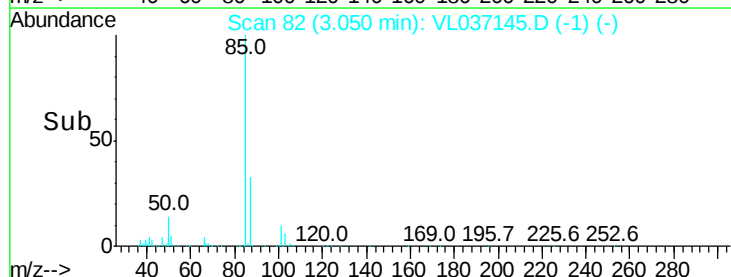
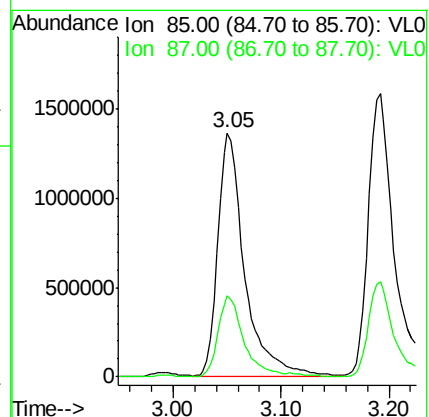
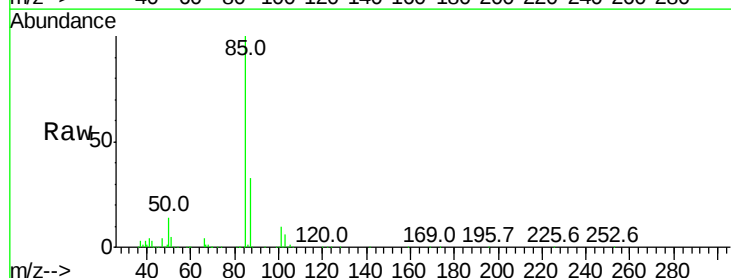
Acq: 14 Jun 2021 11:48

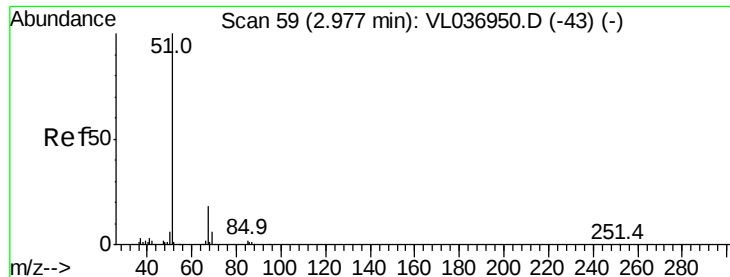
Tgt Ion: 85 Resp: 2329766

Ion Ratio Lower Upper

85 100

87 33.0 26.6 39.8





#3

Chlorodifluoromethane

Concen: 9.836 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

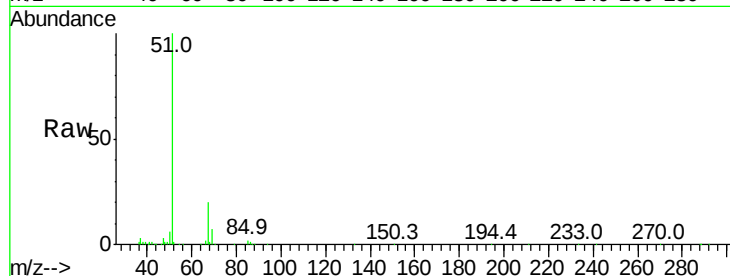
VSTDICCC010

Tgt Ion: 51 Resp: 2890198

Ion Ratio Lower Upper

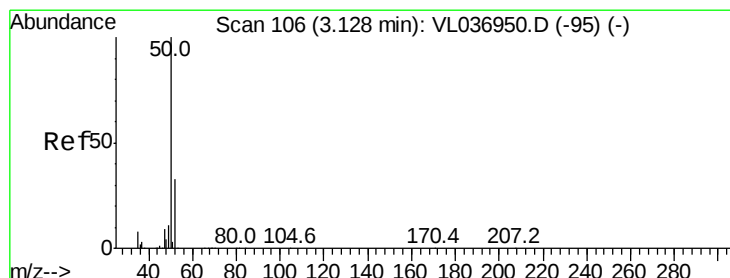
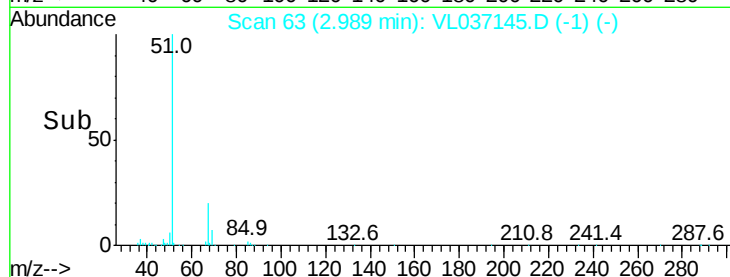
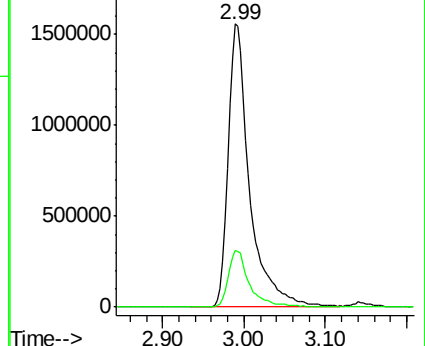
51 100

67 19.9 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.091 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.02 min

Lab File: VL037145.D

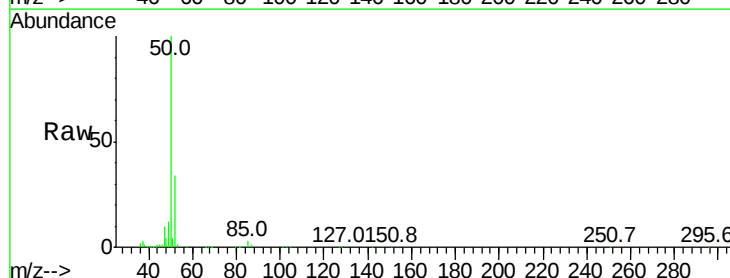
Acq: 14 Jun 2021 11:48

Tgt Ion: 50 Resp: 1008957

Ion Ratio Lower Upper

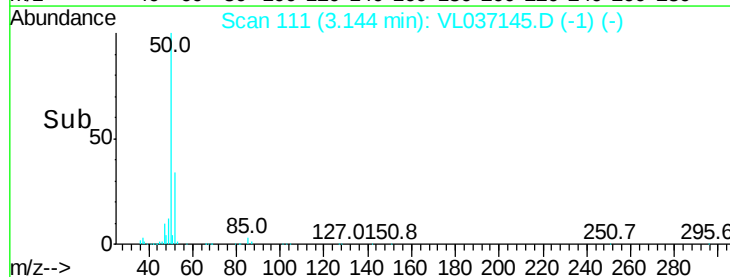
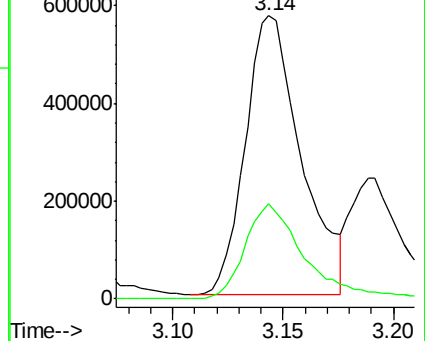
50 100

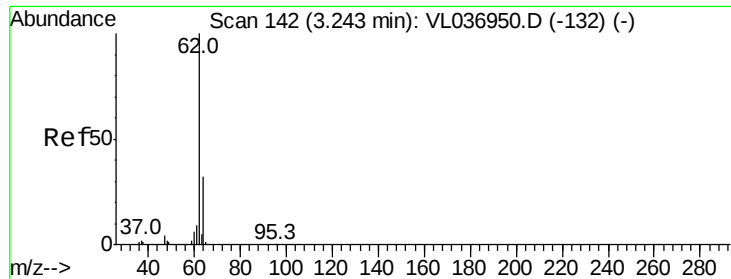
52 34.3 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.942 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

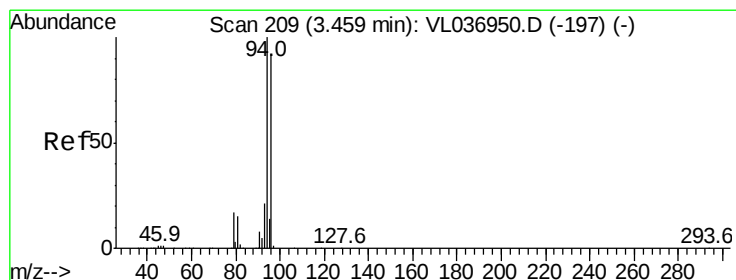
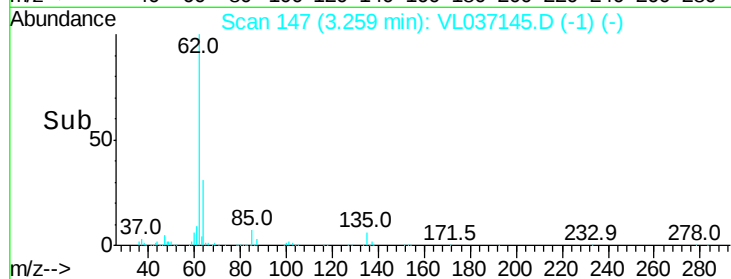
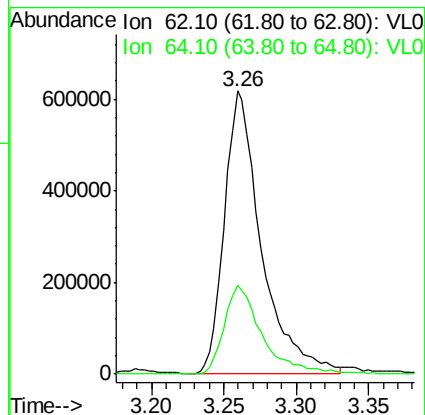
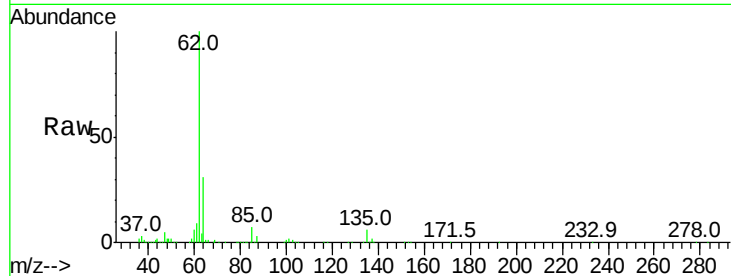
VSTDICCC010

Tgt Ion: 62 Resp: 1086616

Ion Ratio Lower Upper

62 100

64 31.5 25.9 38.9



#6

Bromomethane

Concen: 11.164 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.02 min

Lab File: VL037145.D

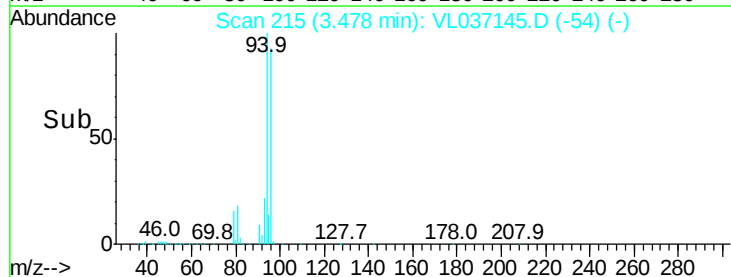
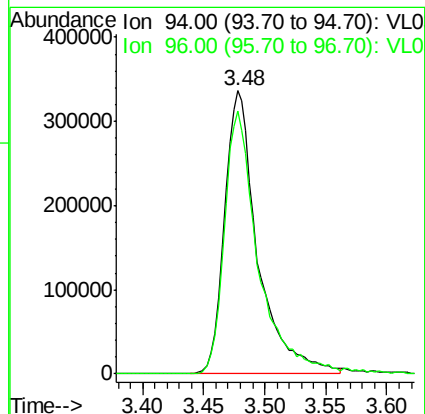
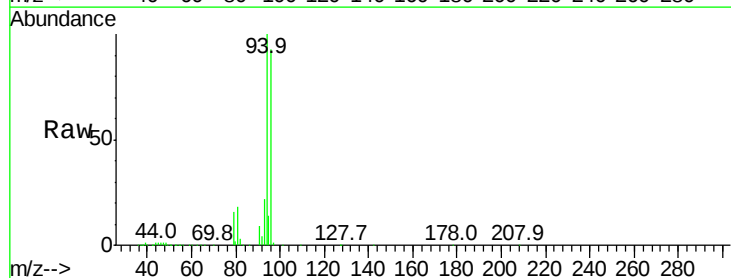
Acq: 14 Jun 2021 11:48

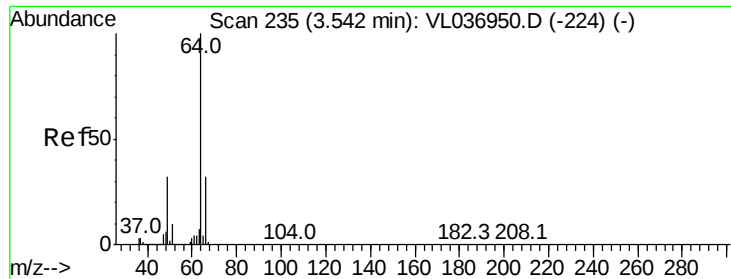
Tgt Ion: 94 Resp: 642905

Ion Ratio Lower Upper

94 100

96 92.7 74.0 111.0





#7

Chloroethane

Concen: 11.116 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

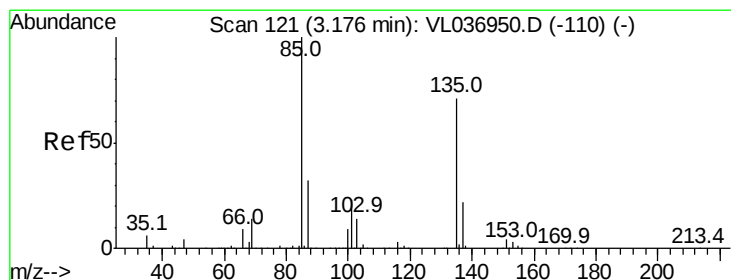
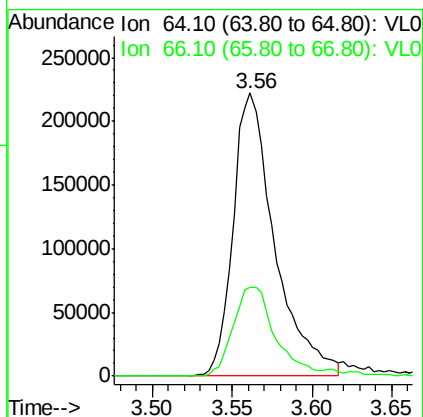
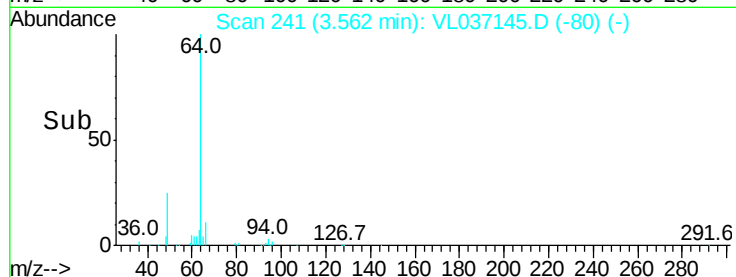
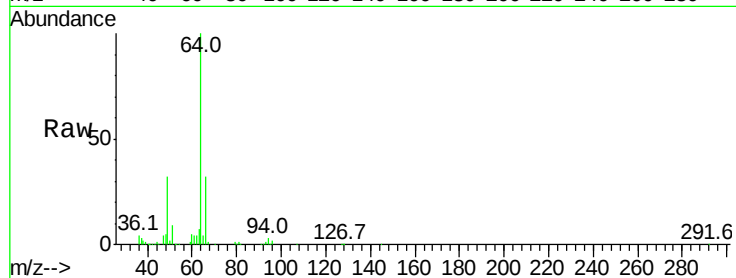
VSTDICCC010

Tgt Ion: 64 Resp: 394462

Ion Ratio Lower Upper

64 100

66 31.6 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 10.350 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.02 min

Lab File: VL037145.D

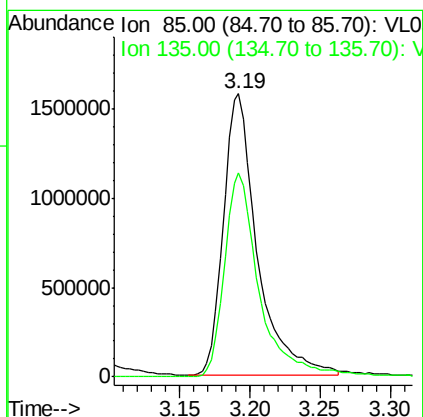
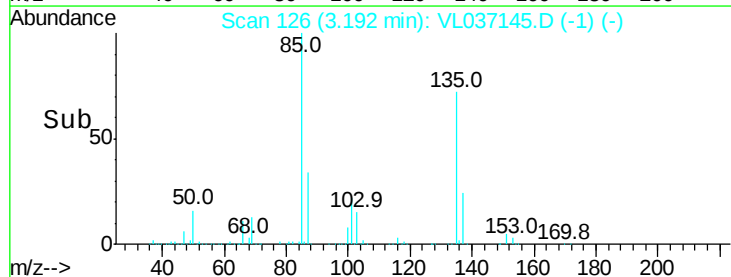
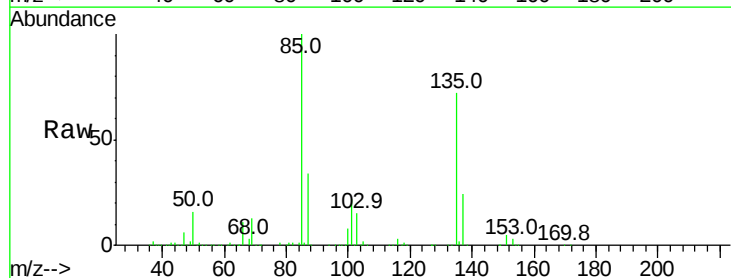
Acq: 14 Jun 2021 11:48

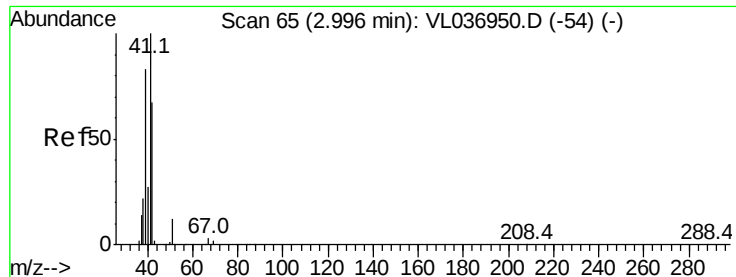
Tgt Ion: 85 Resp: 2644042

Ion Ratio Lower Upper

85 100

135 75.4 57.7 86.5





#9

Propene

Concen: 9.084 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

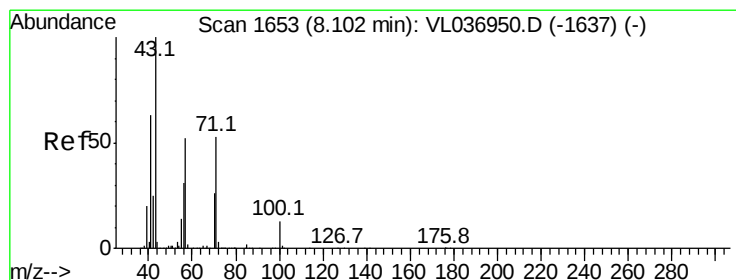
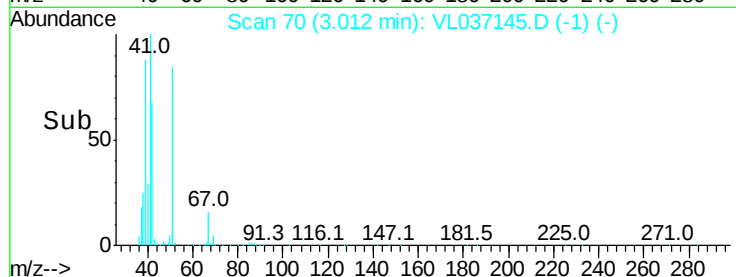
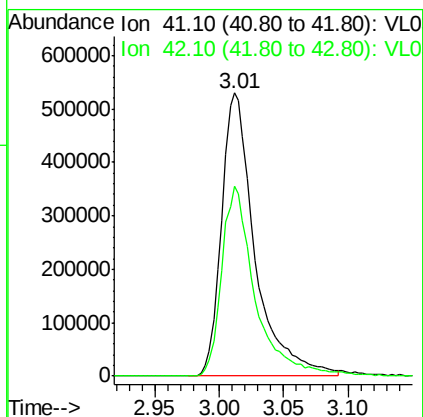
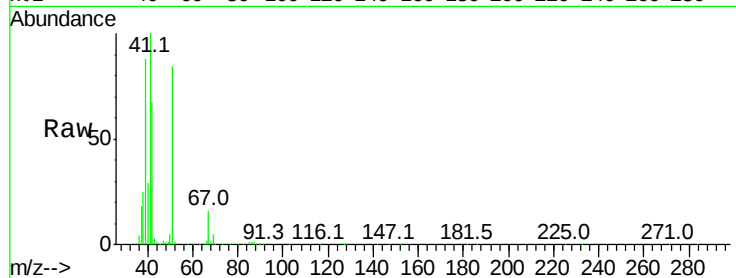
VSTDICCC010

Tgt Ion: 41 Resp: 955731

Ion Ratio Lower Upper

41 100

42 67.3 53.9 80.9



#10

Heptane

Concen: 9.233 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.03 min

Lab File: VL037145.D

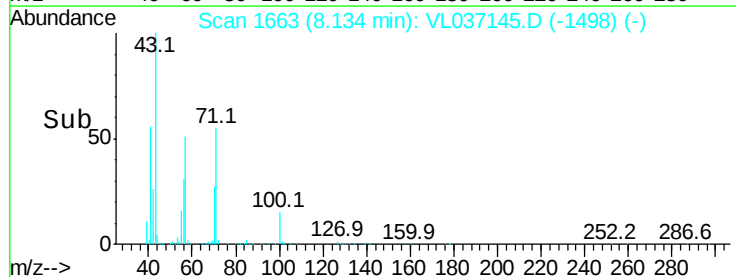
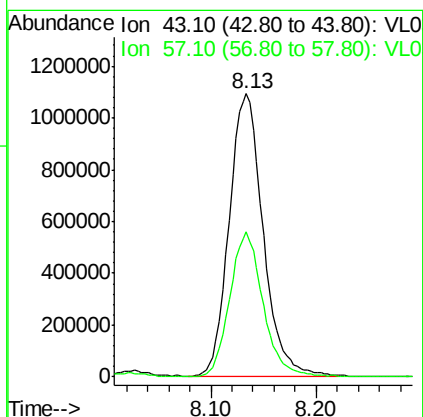
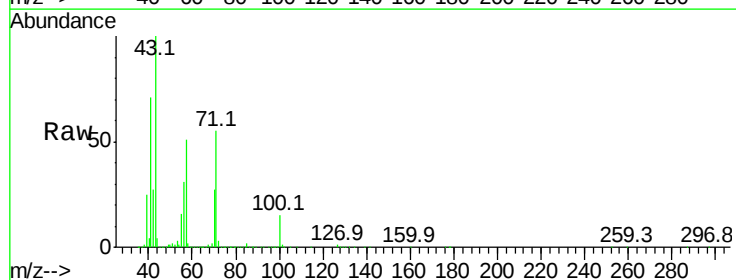
Acq: 14 Jun 2021 11:48

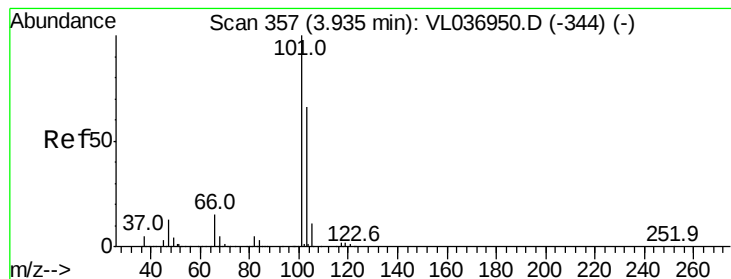
Tgt Ion: 43 Resp: 2420969

Ion Ratio Lower Upper

43 100

57 50.6 41.0 61.6





#11

Trichlorofluoromethane

Concen: 11.330 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

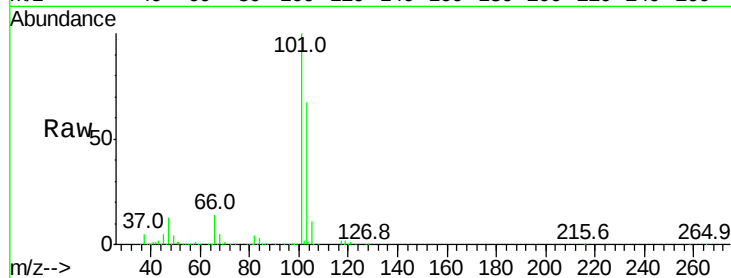
VSTDICCC010

Tgt Ion:101 Resp: 2853421

Ion Ratio Lower Upper

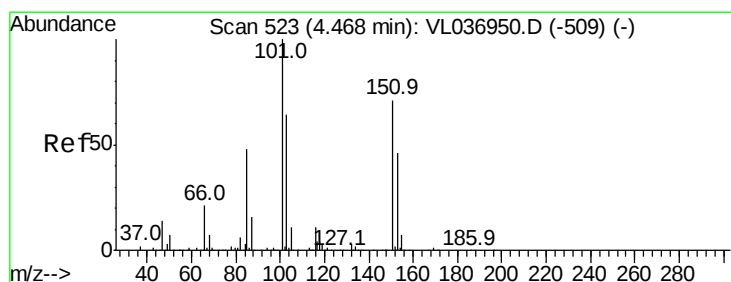
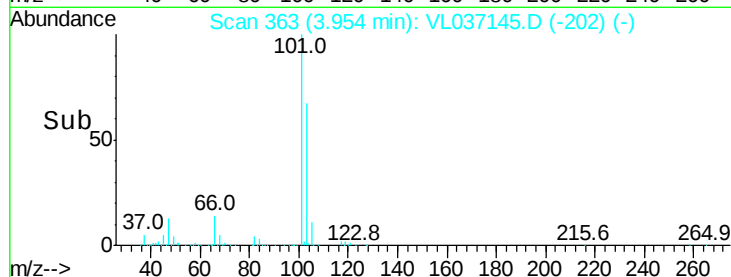
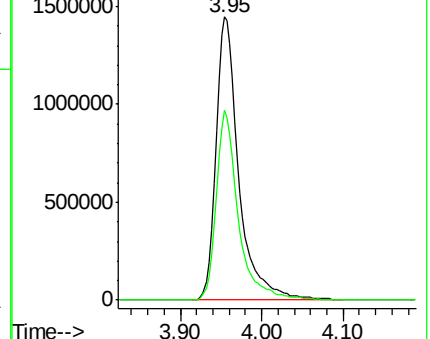
101 100

103 67.0 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: 10.789 ppbv

RT: 4.49 min Scan# 530

Delta R.T. 0.02 min

Lab File: VL037145.D

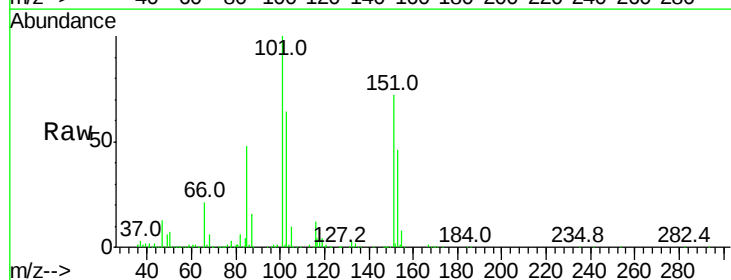
Acq: 14 Jun 2021 11:48

Tgt Ion:101 Resp: 1935468

Ion Ratio Lower Upper

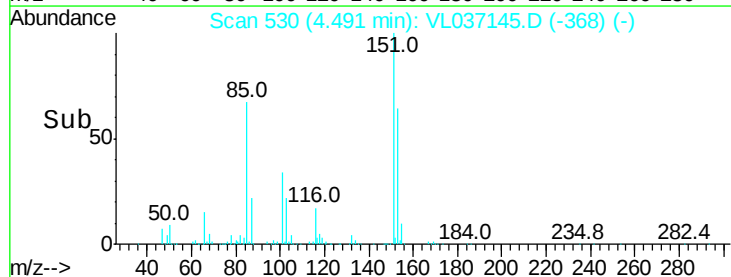
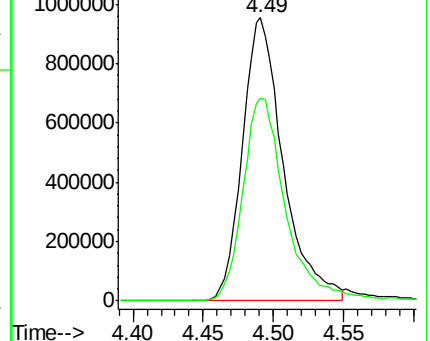
101 100

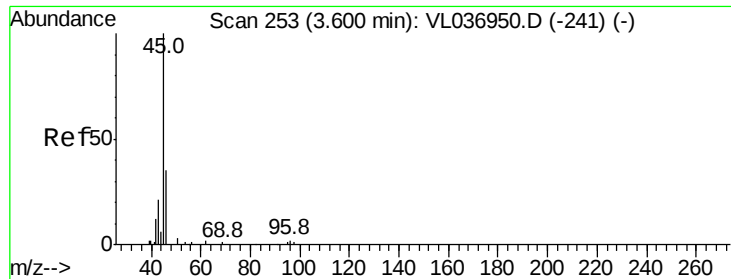
151 75.6 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 8.997 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

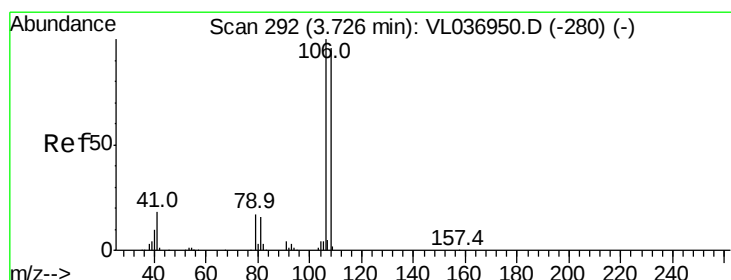
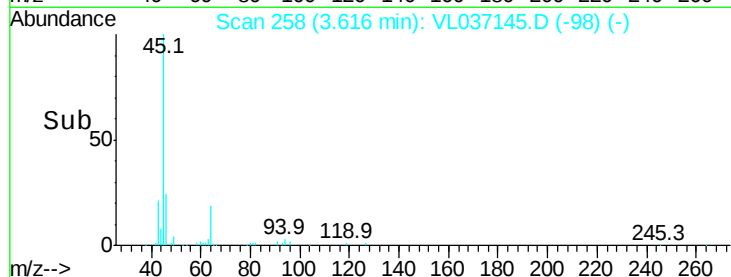
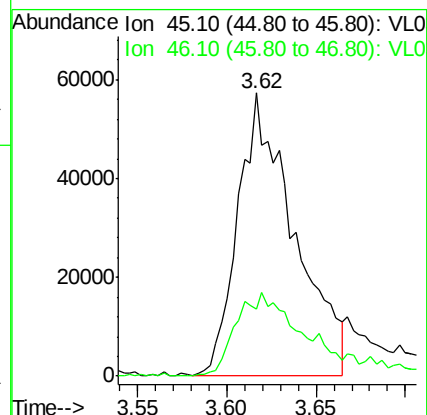
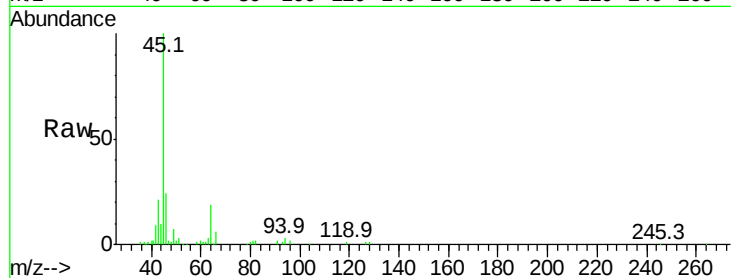
VSTDICCC010

Tgt Ion: 45 Resp: 126308

Ion Ratio Lower Upper

45 100

46 38.6 16.3 65.3



#14

Bromoethene

Concen: 10.982 ppbv

RT: 3.74 min Scan# 298

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

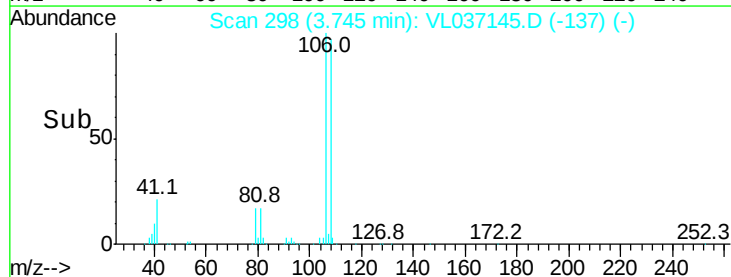
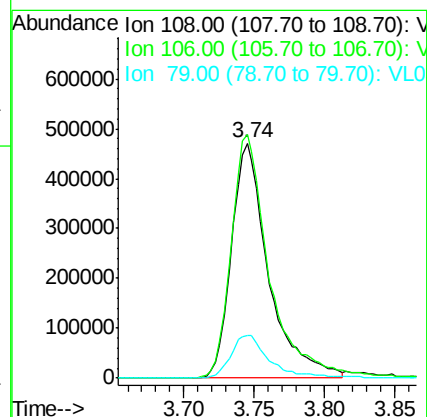
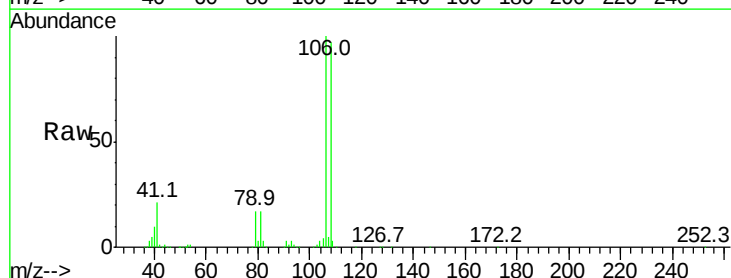
Tgt Ion: 108 Resp: 867762

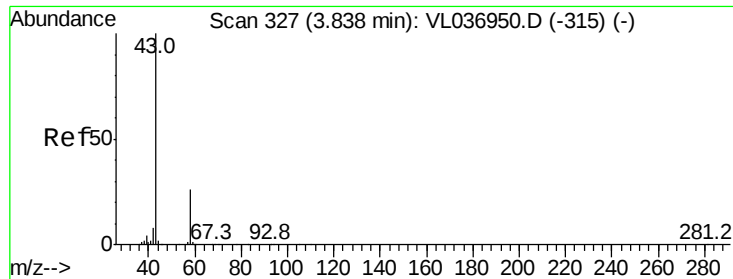
Ion Ratio Lower Upper

108 100

106 108.1 86.5 129.7

79 19.3 15.0 22.4

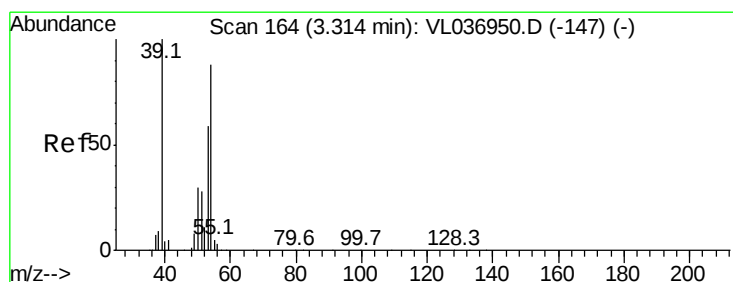
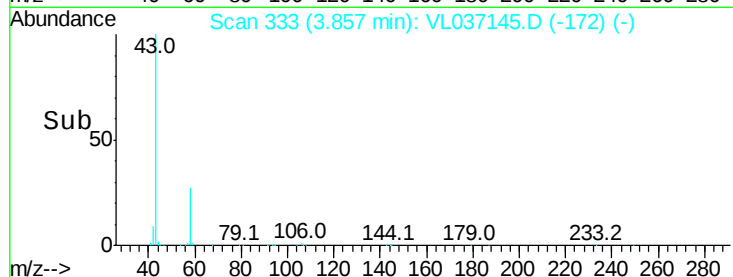
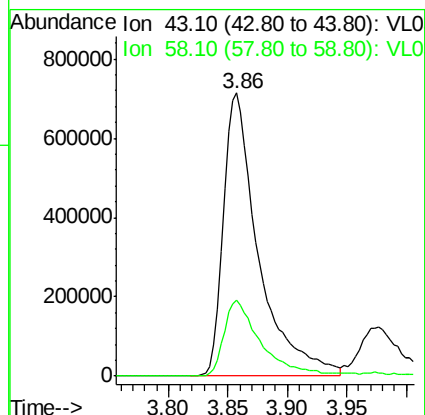
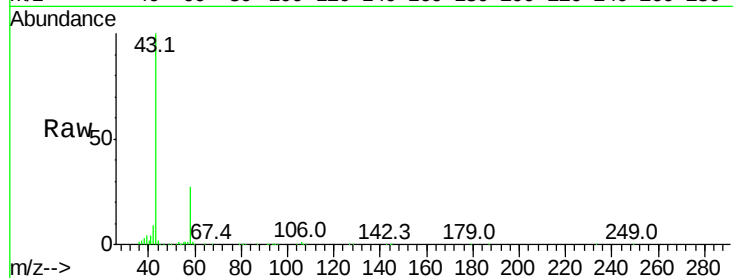




#15  
Acetone  
Concen: 8.883 ppbv  
RT: 3.86 min Scan# 333  
Delta R.T. 0.02 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

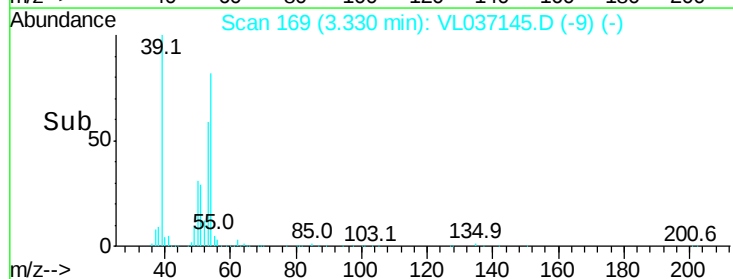
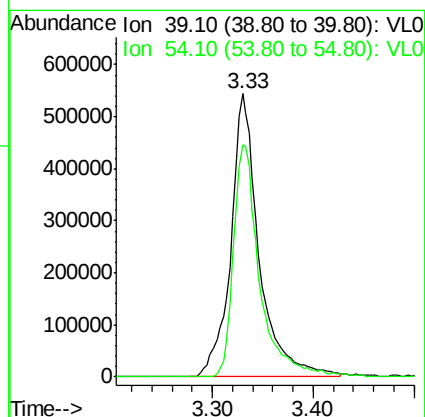
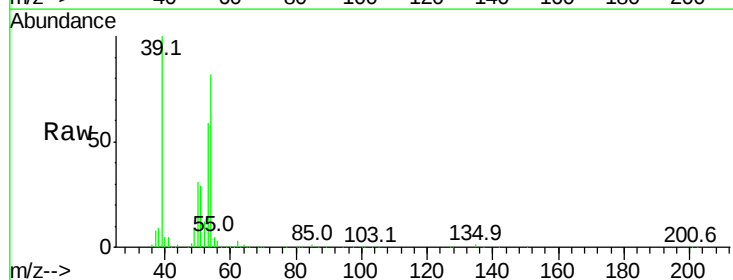
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

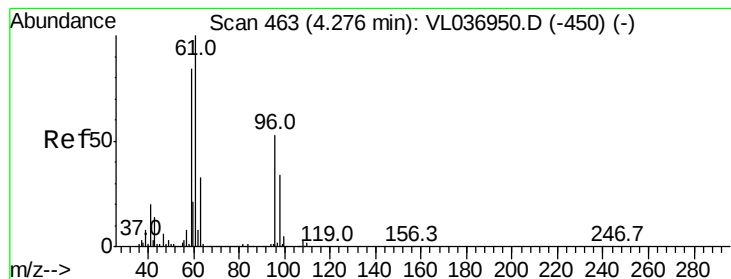
Tgt Ion: 43 Resp: 1459232  
Ion Ratio Lower Upper  
43 100  
58 28.8 24.0 36.0



#16  
1,3-Butadiene  
Concen: 10.397 ppbv  
RT: 3.33 min Scan# 169  
Delta R.T. 0.02 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

Tgt Ion: 39 Resp: 1061176  
Ion Ratio Lower Upper  
39 100  
54 77.2 63.2 94.8





#17

tert-Butyl alcohol

Concen: 12.215 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

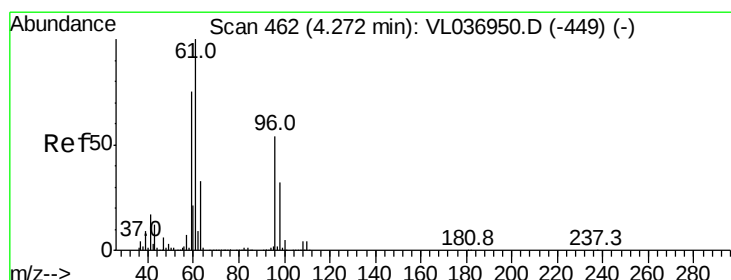
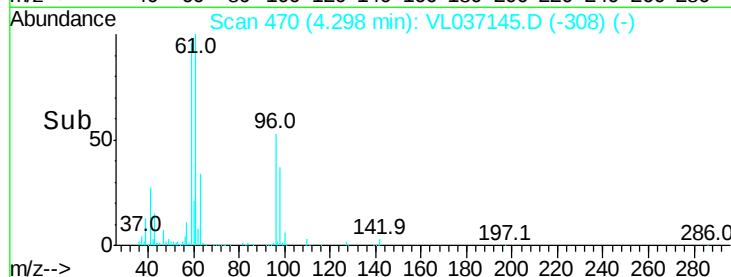
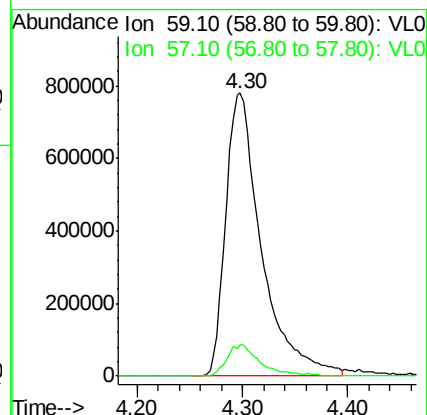
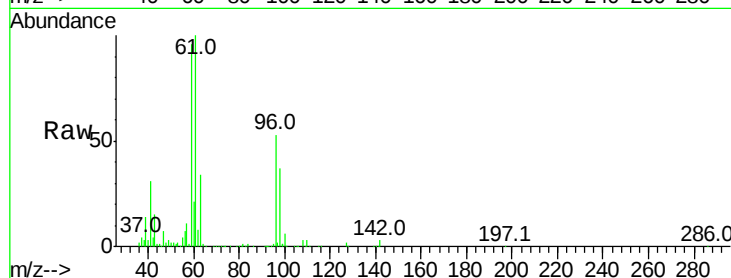
VSTDICCC010

Tgt Ion: 59 Resp: 1838053

Ion Ratio Lower Upper

59 100

57 11.0 8.3 12.5



#18

1,1-Dichloroethene

Concen: 10.785 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

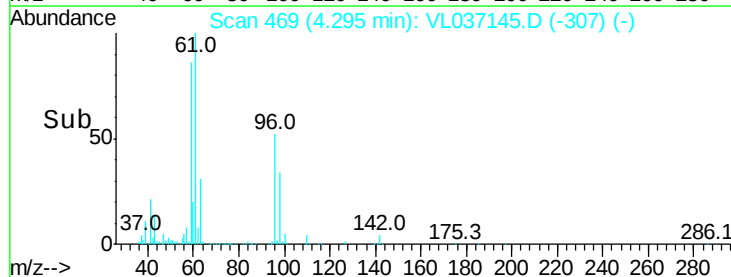
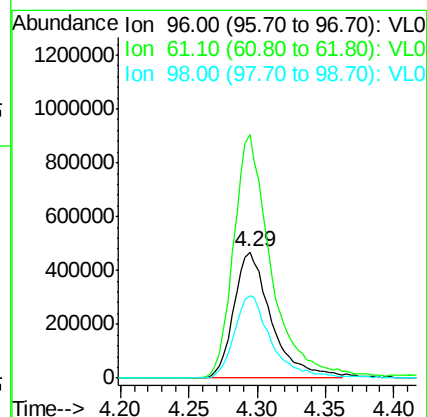
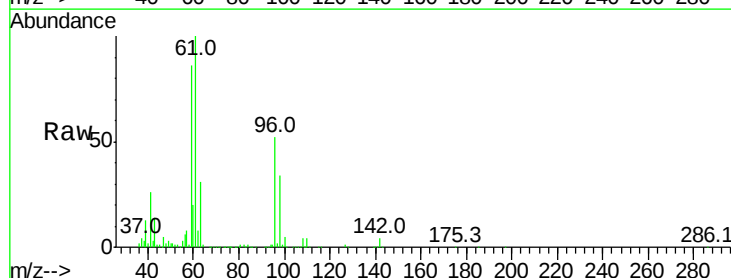
Tgt Ion: 96 Resp: 894631

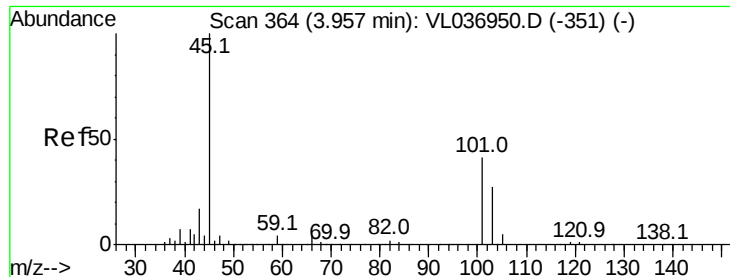
Ion Ratio Lower Upper

96 100

61 192.5 148.2 222.4

98 65.4 47.8 71.6





#19

Isopropyl Alcohol

Concen: 12.453 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

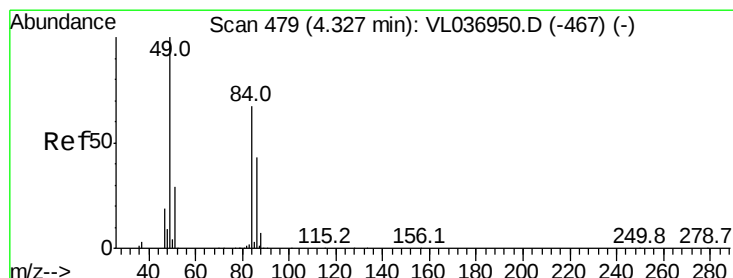
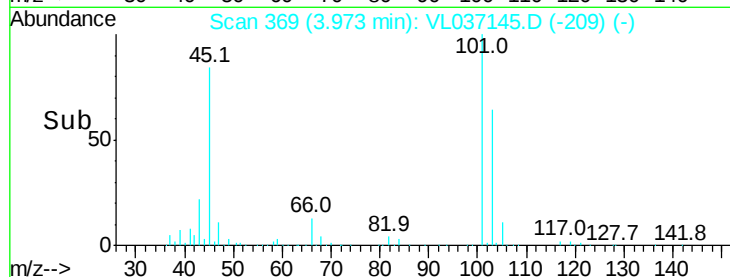
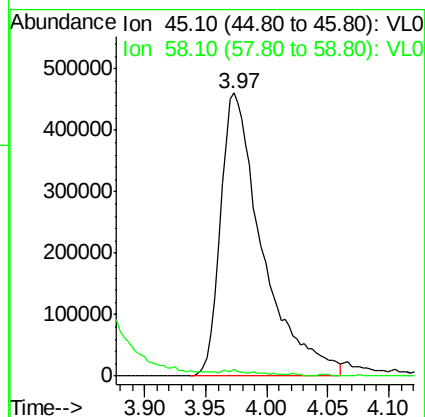
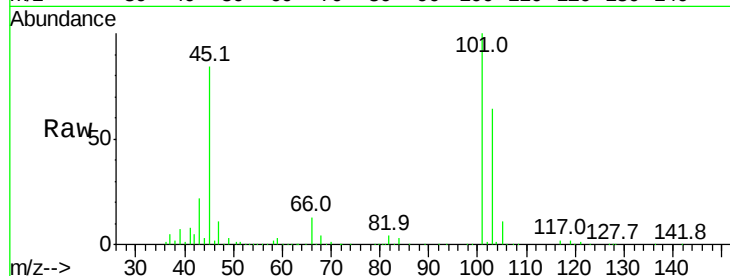
VSTDICCC010

Tgt Ion: 45 Resp: 1099653

Ion Ratio Lower Upper

45 100

58 1.8 37.2 55.8#



#20

Methylene Chloride

Concen: 8.266 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Tgt Ion: 84 Resp: 727853

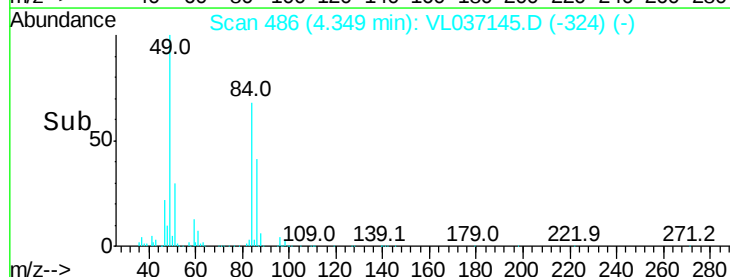
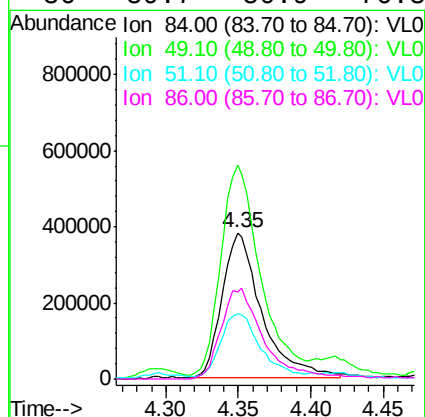
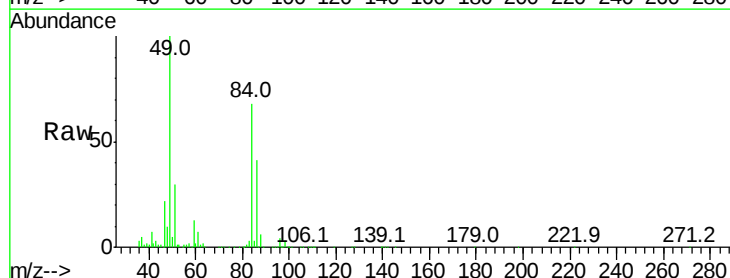
Ion Ratio Lower Upper

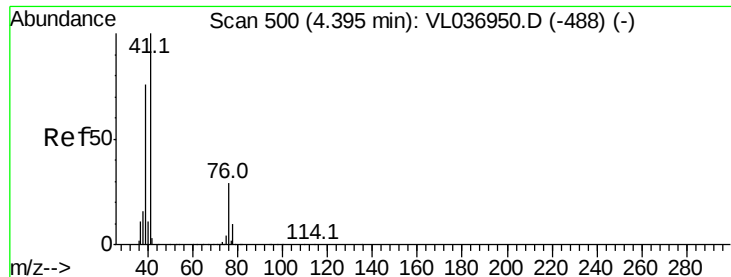
84 100

49 144.1 119.8 179.6

51 42.8 35.1 52.7

86 59.7 50.9 76.3





#21

Allyl Chloride

Concen: 10.568 ppbv

RT: 4.42 min Scan# 507

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

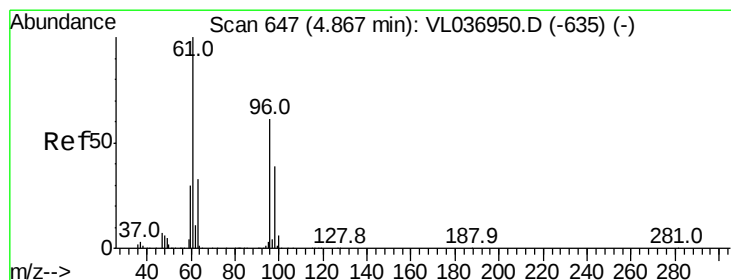
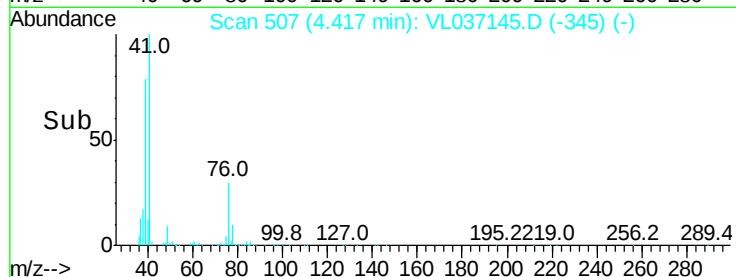
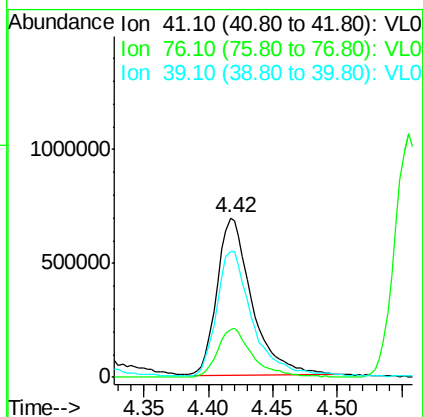
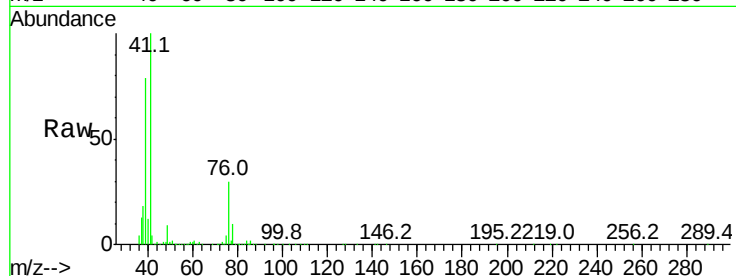
Tgt Ion: 41 Resp: 1309719

Ion Ratio Lower Upper

41 100

76 31.5 24.9 37.3

39 82.7 63.7 95.5



#22

trans-1,2-Dichloroethene

Concen: 11.499 ppbv

RT: 4.89 min Scan# 655

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

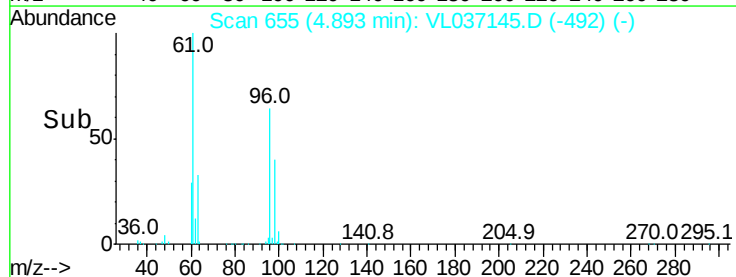
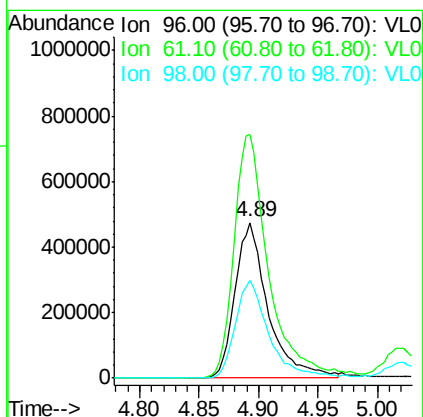
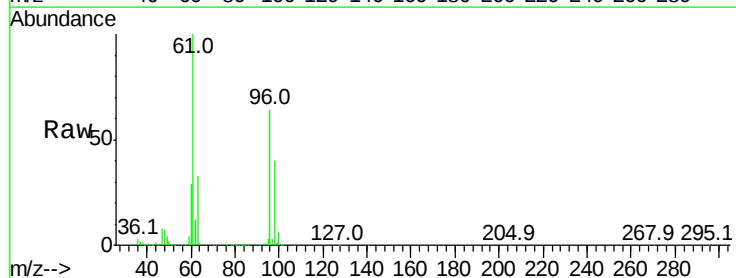
Tgt Ion: 96 Resp: 914127

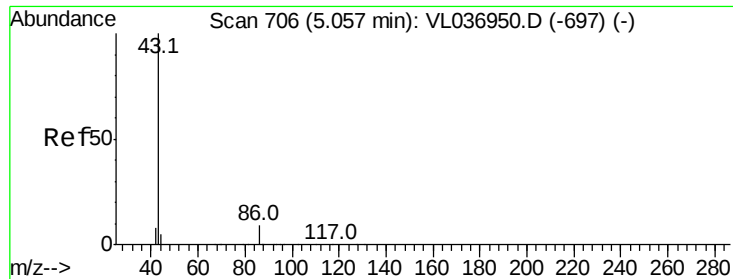
Ion Ratio Lower Upper

96 100

61 156.6 130.6 196.0

98 62.9 50.8 76.2





#23

Vinyl Acetate

Concen: 10.393 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 2710032

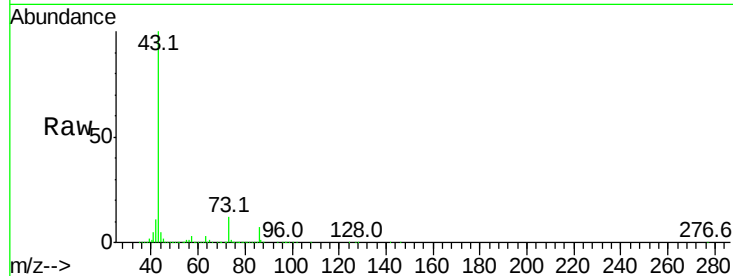
Ion Ratio Lower Upper

43 100

86 6.8 5.8 8.8

42 10.7 7.4 11.2

44 4.7 3.3 4.9

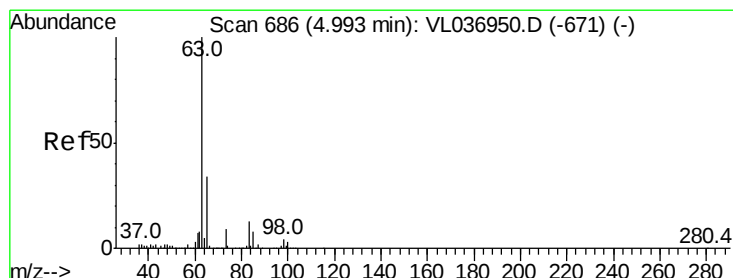
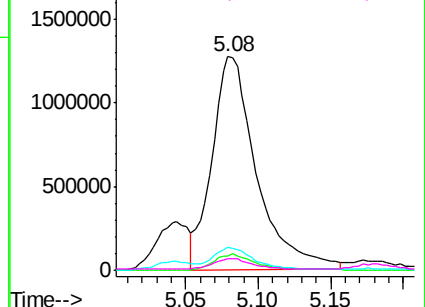
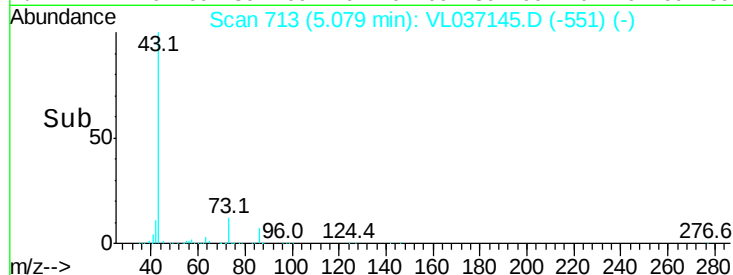


Abundance Ion 43.10 (42.80 to 43.80): VL0

2000000 Ion 86.10 (85.80 to 86.80): VL0

1500000 Ion 42.10 (41.80 to 42.80): VL0

1000000 Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.733 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

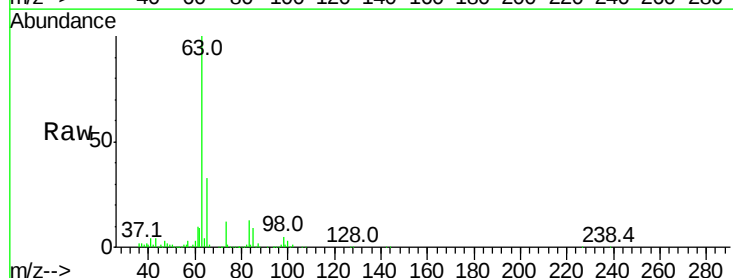
Tgt Ion: 63 Resp: 2014433

Ion Ratio Lower Upper

63 100

98 4.7 2.3 6.9

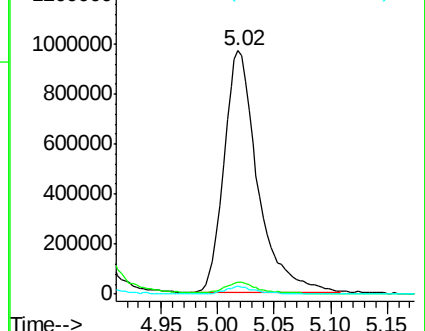
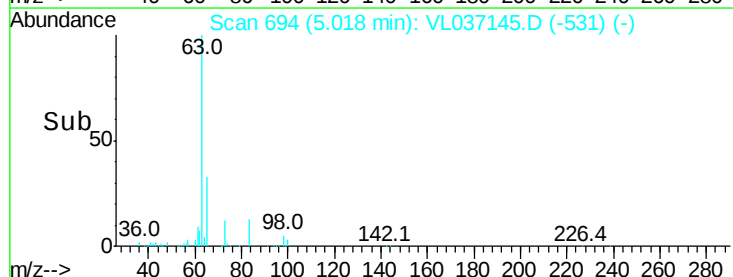
100 3.2 1.4 4.0

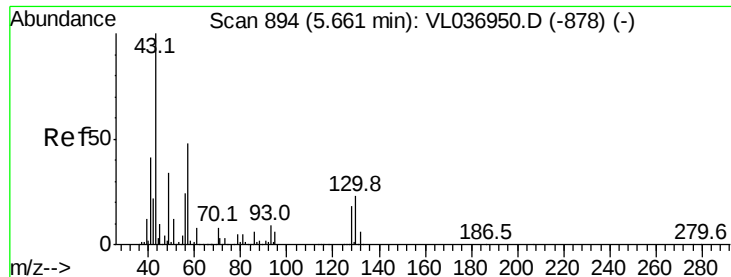


Abundance Ion 63.10 (62.80 to 63.80): VL0

1200000 Ion 98.00 (97.70 to 98.70): VL0

1000000 Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.500 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 3750010

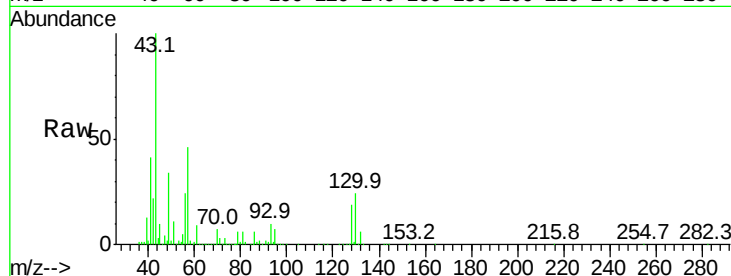
Ion Ratio Lower Upper

43 100

45 9.8 7.8 11.8

61 9.4 7.8 11.8

70 7.1 5.6 8.4



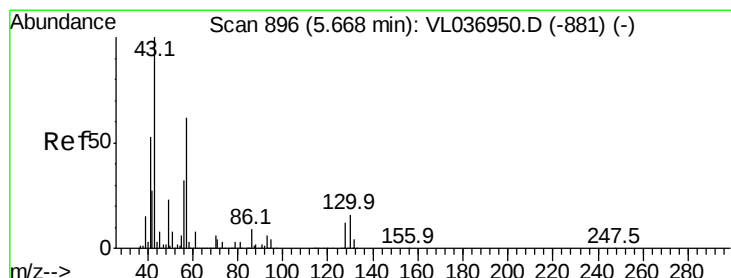
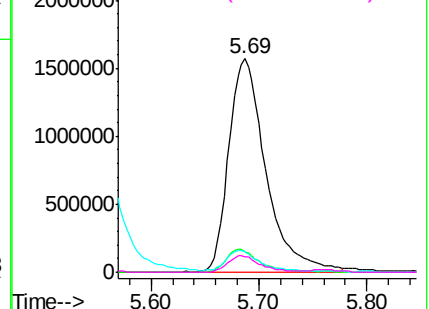
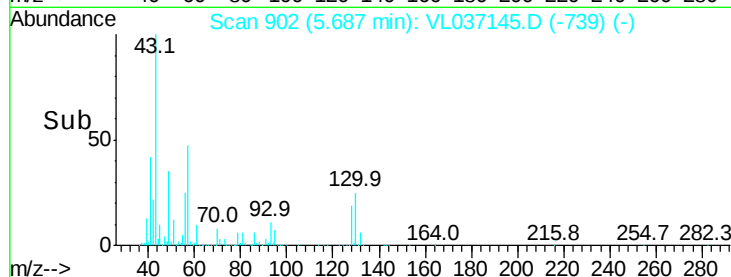
Abundance

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: 8.971 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Tgt Ion: 57 Resp: 1809081

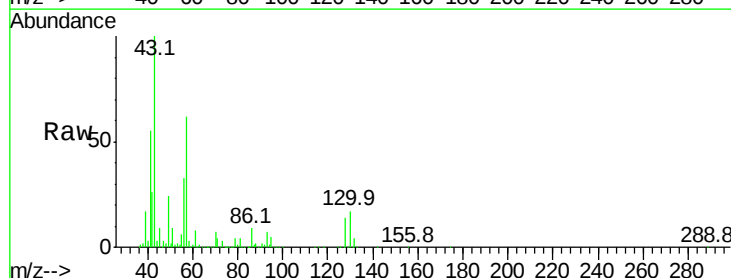
Ion Ratio Lower Upper

57 100

41 92.0 70.5 105.7

43 211.0 165.8 248.8

56 52.9 42.2 63.4



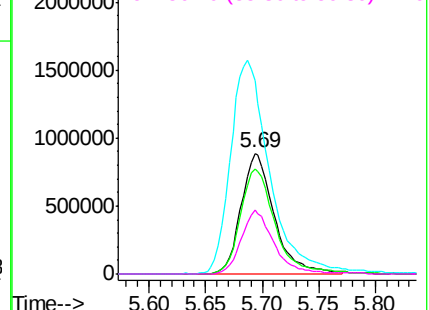
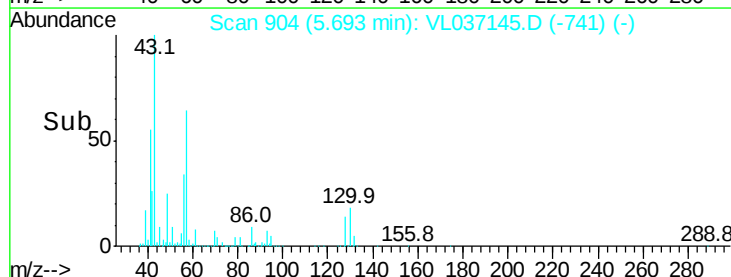
Abundance

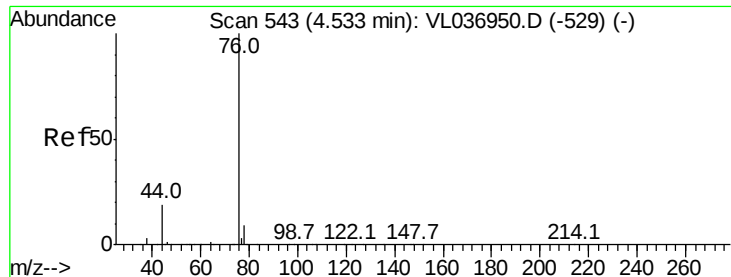
Ion 57.10 (56.80 to 57.80): VL0

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

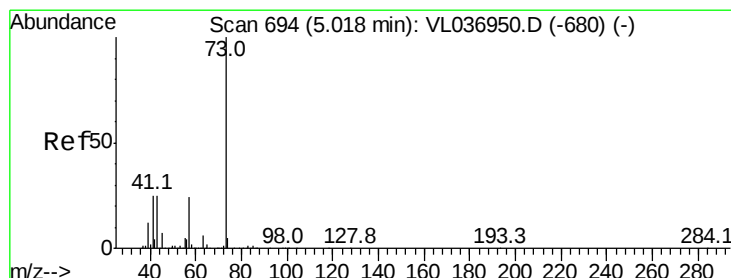
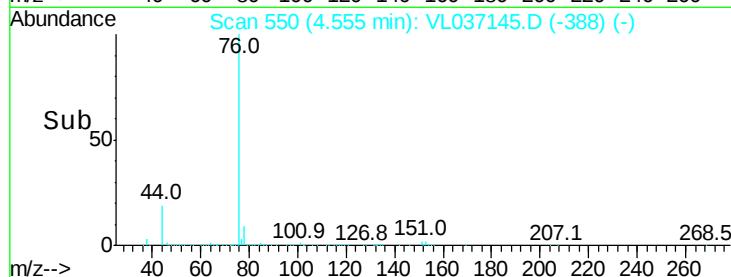
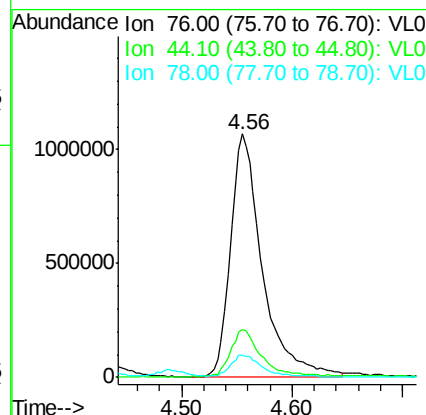
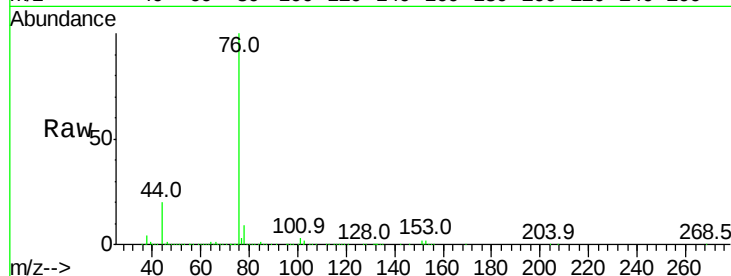




#27  
Carbon Disulfide  
Concen: 10.476 ppbv  
RT: 4.56 min Scan# 550  
Delta R.T. 0.02 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

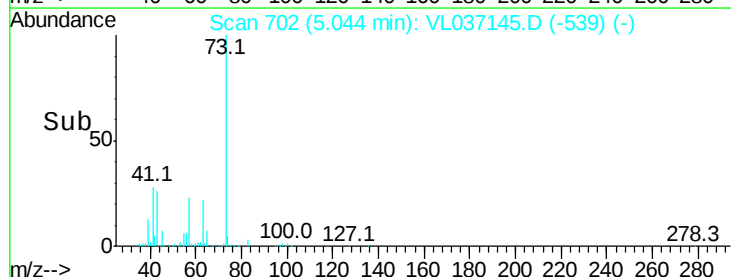
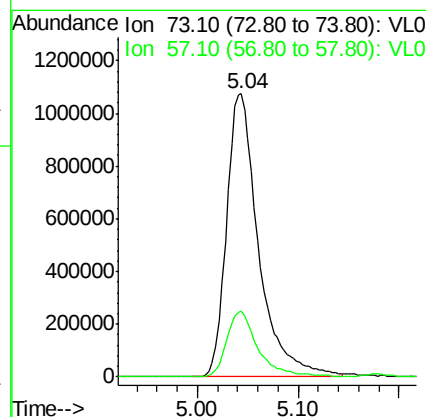
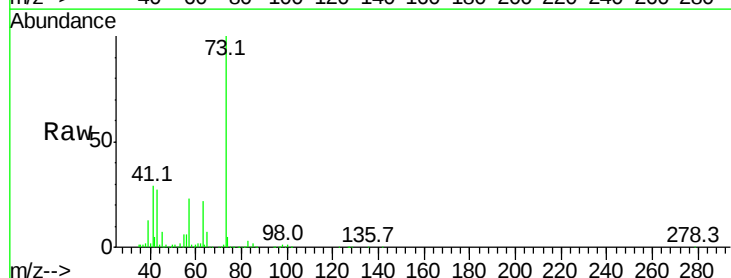
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

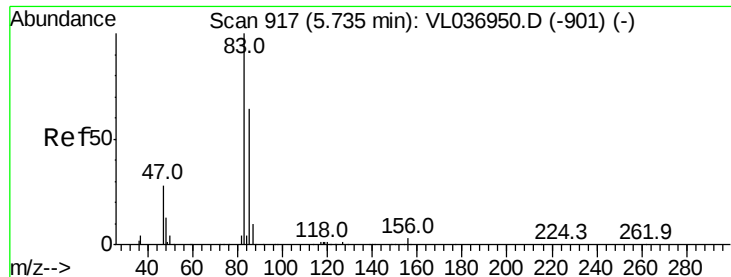
Tgt Ion: 76 Resp: 2129234  
Ion Ratio Lower Upper  
76 100  
44 19.5 15.5 23.3  
78 9.5 7.8 11.6



#28  
Methyl tert-Butyl Ether  
Concen: 9.841 ppbv  
RT: 5.04 min Scan# 702  
Delta R.T. 0.03 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

Tgt Ion: 73 Resp: 2378876  
Ion Ratio Lower Upper  
73 100  
57 22.8 18.3 27.5





#29

Chloroform

Concen: 10.425 ppbv

RT: 5.76 min Scan# 925

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

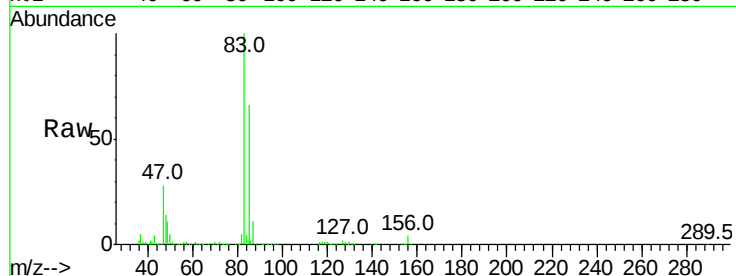
VSTDICCC010

Tgt Ion: 83 Resp: 2970016

Ion Ratio Lower Upper

83 100

85 65.7 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

1500000

1000000

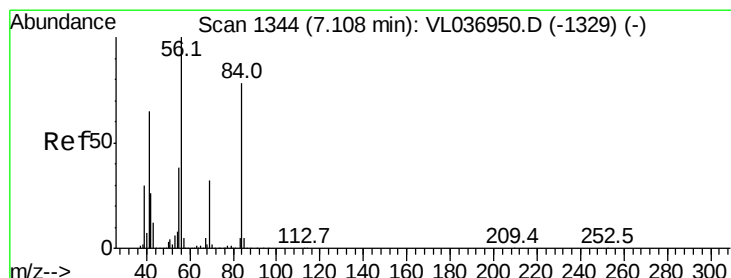
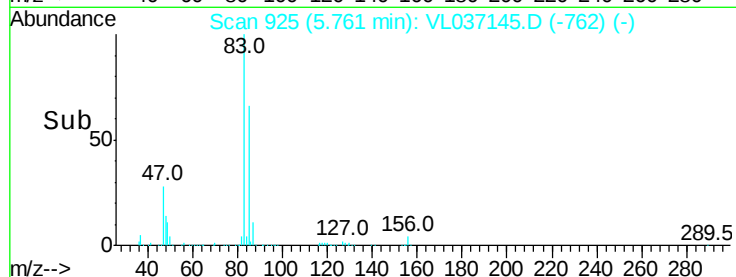
500000

0

5.76

5.70 5.80 5.90

Time-->



#30

Cyclohexane

Concen: 9.567 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

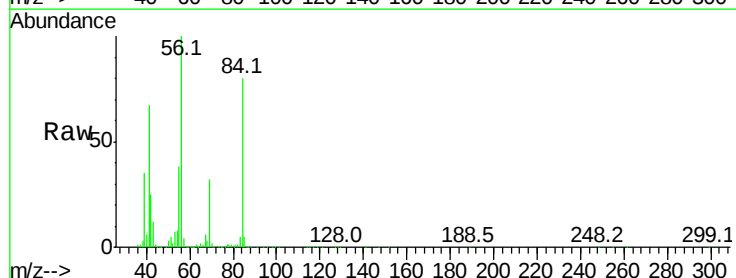
Tgt Ion: 84 Resp: 1639553

Ion Ratio Lower Upper

84 100

56 129.9 107.9 161.9

41 83.1 65.5 98.3



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

1200000

1000000

800000

600000

400000

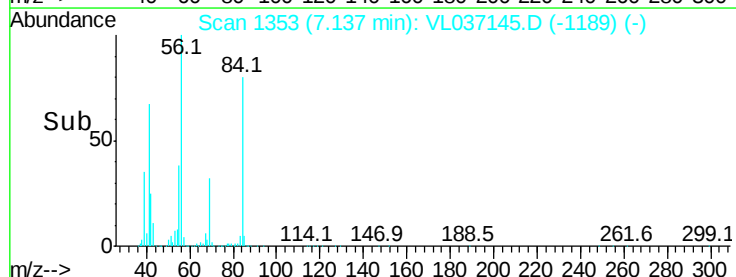
200000

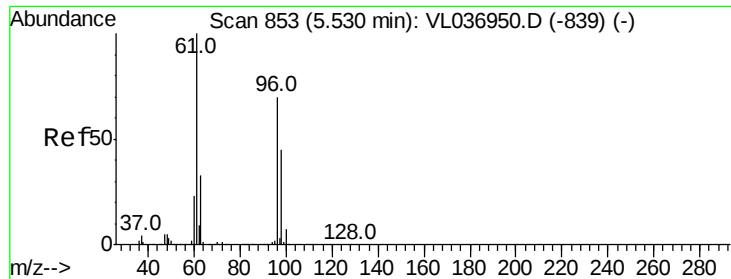
0

7.14

7.05 7.10 7.15 7.20 7.25

Time-->



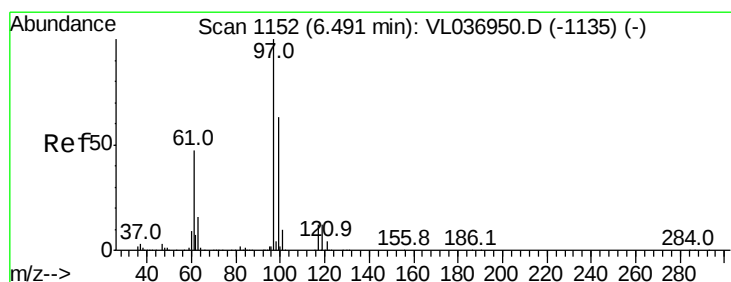
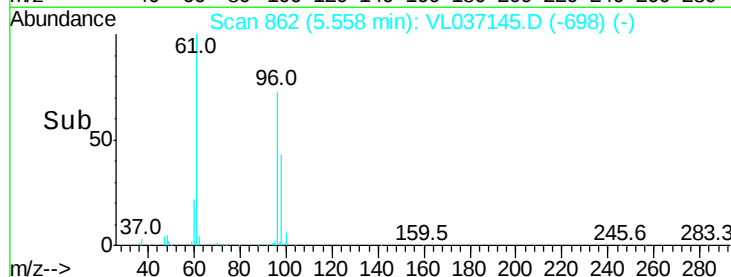
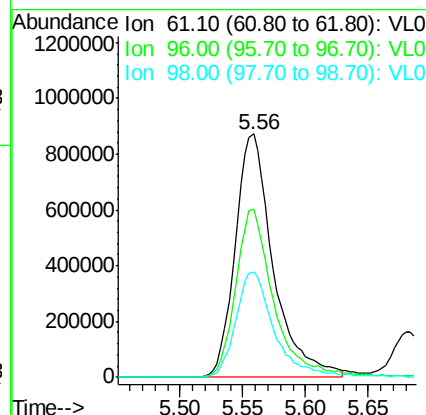
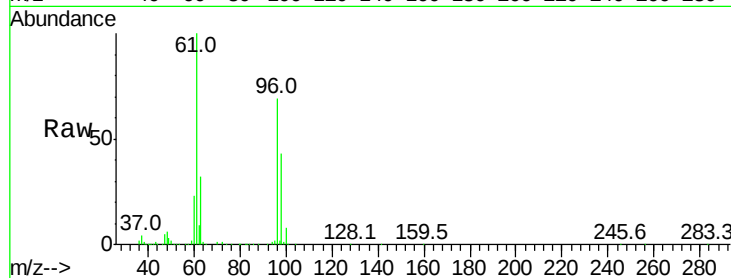


#31  
 cis-1,2-Dichloroethene  
 Concen: 10.121 ppbv  
 RT: 5.56 min Scan# 862  
 Delta R.T. 0.03 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 61 Resp: 1829907  

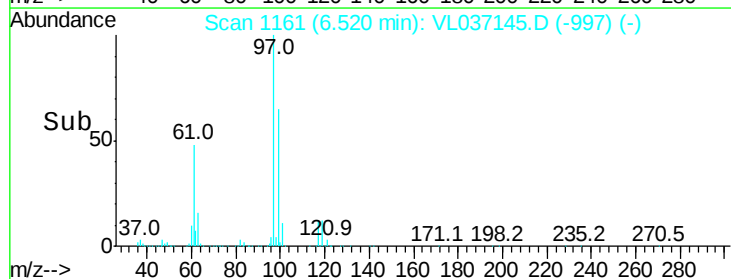
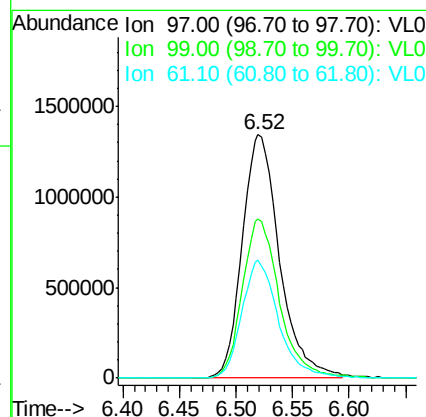
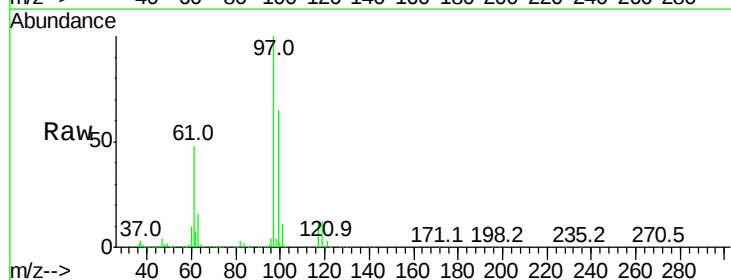
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 61  | 100   |       |       |
| 96  | 69.1  | 55.9  | 83.9  |
| 98  | 43.4  | 35.6  | 53.4  |

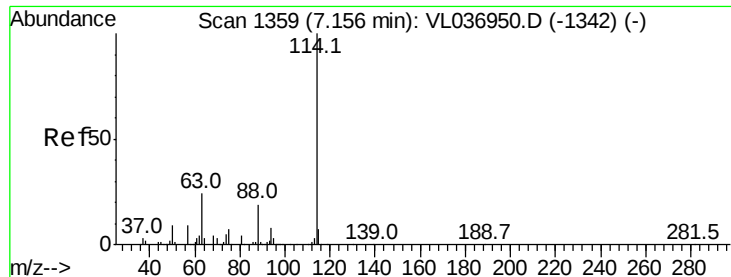


#32  
 1,1,1-Trichloroethane  
 Concen: 10.083 ppbv  
 RT: 6.52 min Scan# 1161  
 Delta R.T. 0.03 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

Tgt Ion: 97 Resp: 3084719  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 65.5  | 51.9  | 77.9  |
| 61  | 48.1  | 37.6  | 56.4  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

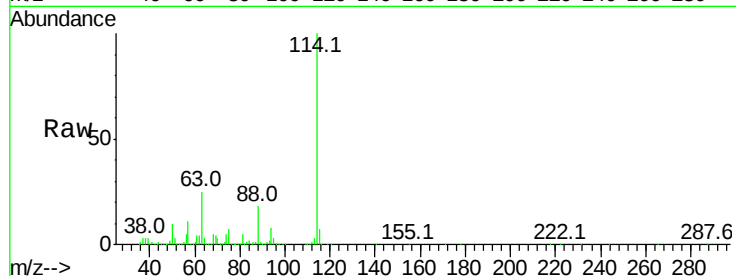
Tgt Ion:114 Resp: 4731446

Ion Ratio Lower Upper

114 100

63 24.7 19.6 29.4

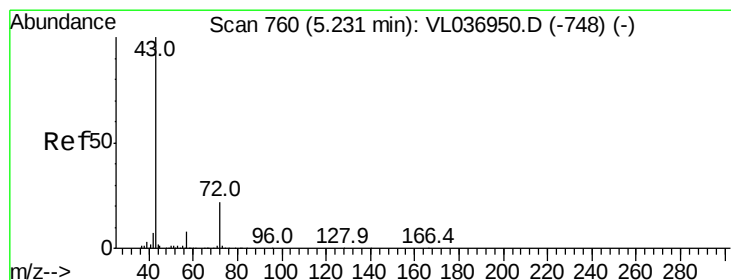
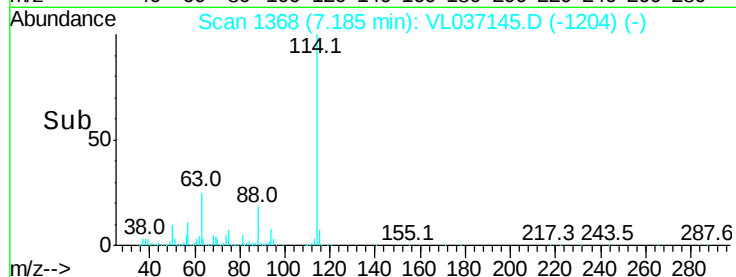
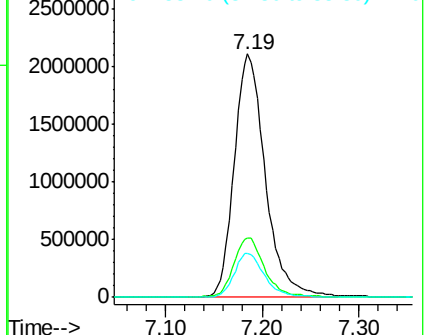
88 17.9 14.6 21.8



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 10.493 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.02 min

Lab File: VL037145.D

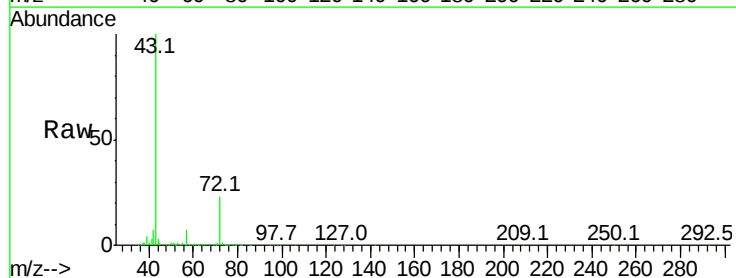
Acq: 14 Jun 2021 11:48

Tgt Ion: 43 Resp: 1807841

Ion Ratio Lower Upper

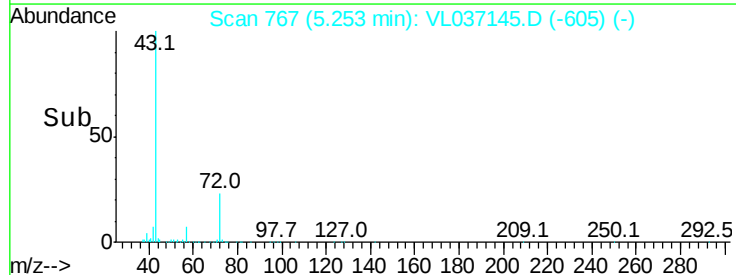
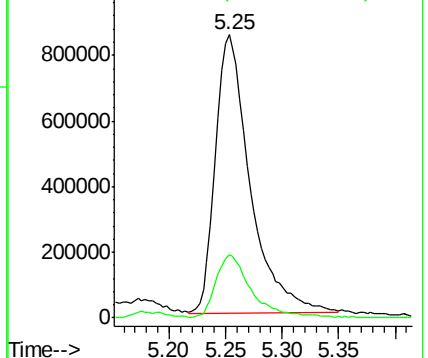
43 100

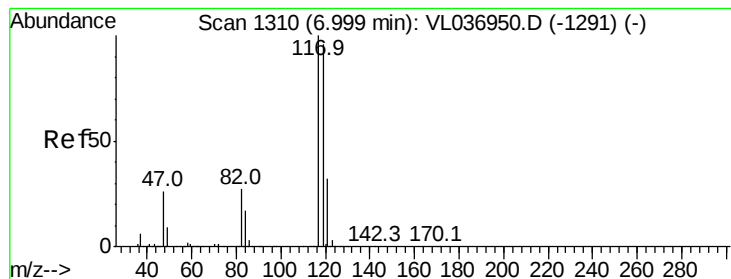
72 23.3 19.0 28.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.510 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

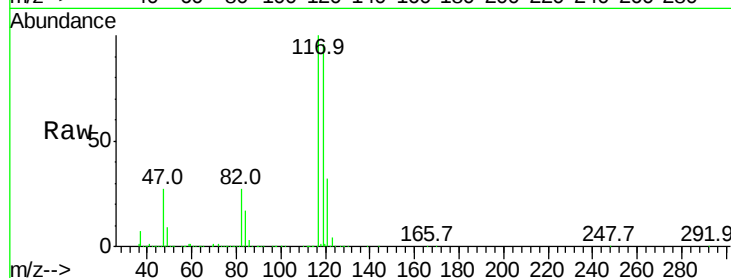
Tgt Ion:117 Resp: 3304042

Ion Ratio Lower Upper

117 100

119 96.2 76.6 114.8

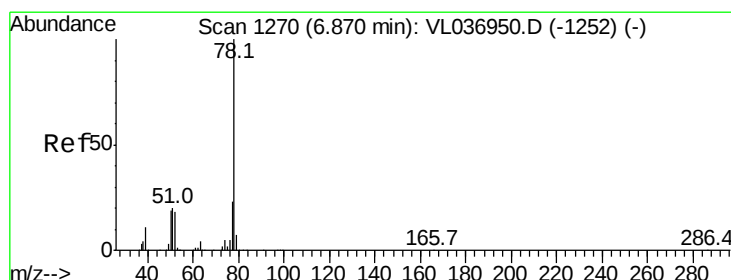
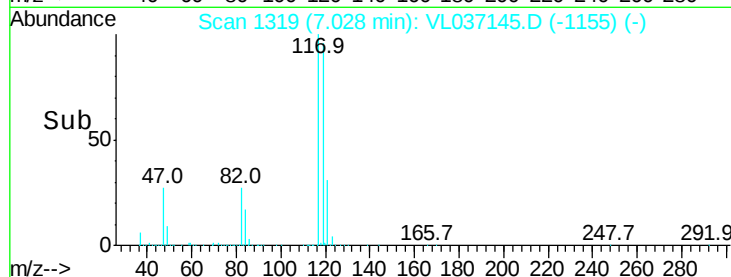
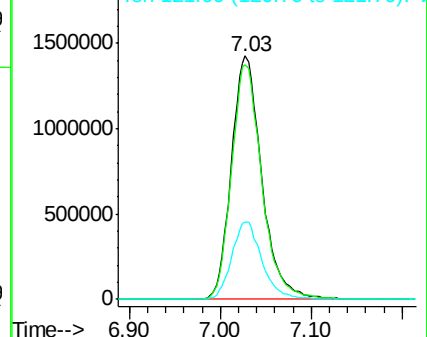
121 31.7 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.398 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

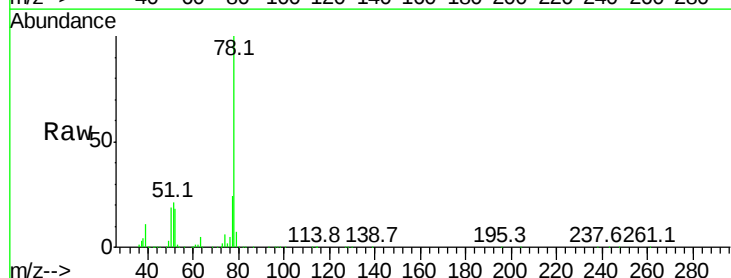
Tgt Ion: 78 Resp: 3830056

Ion Ratio Lower Upper

78 100

77 24.4 18.6 28.0

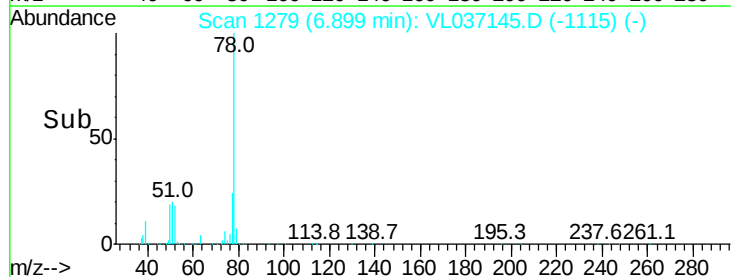
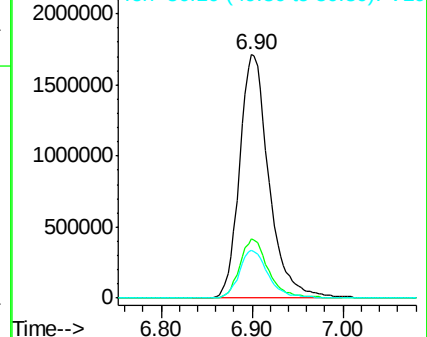
50 19.4 15.0 22.4

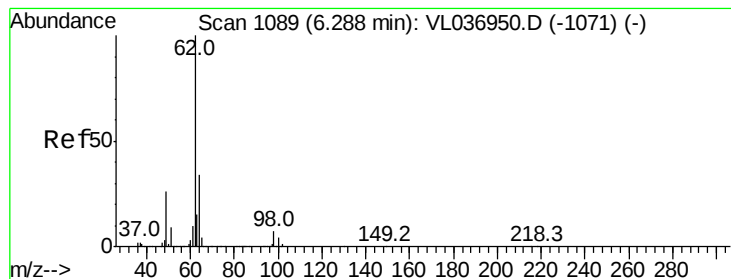


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 11.057 ppbv

RT: 6.32 min Scan# 1098

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

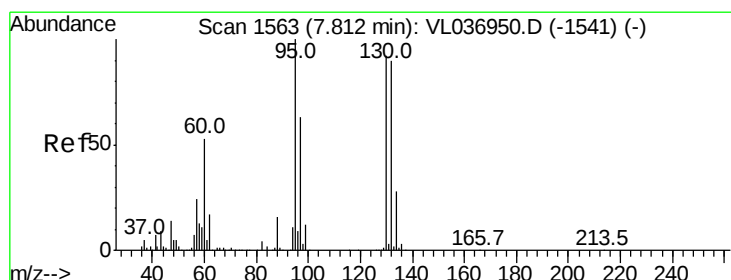
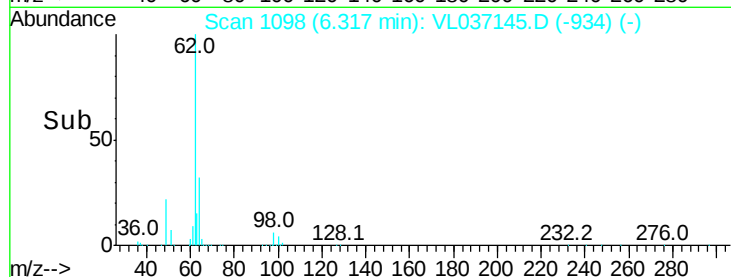
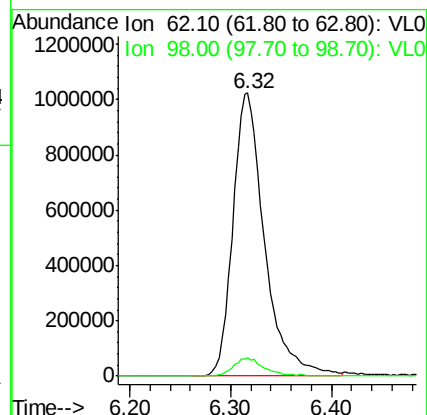
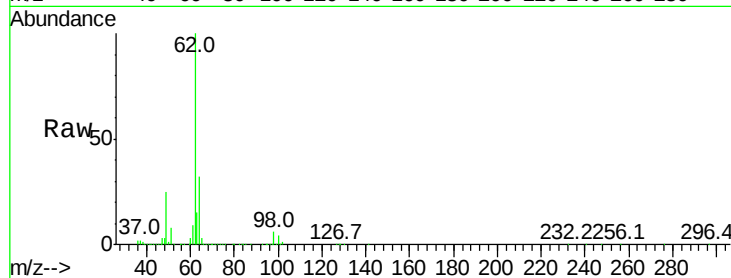
VSTDICCC010

Tgt Ion: 62 Resp: 2234143

Ion Ratio Lower Upper

62 100

98 6.4 5.5 8.3



#38

Trichloroethene

Concen: 9.323 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Tgt Ion: 130 Resp: 1625333

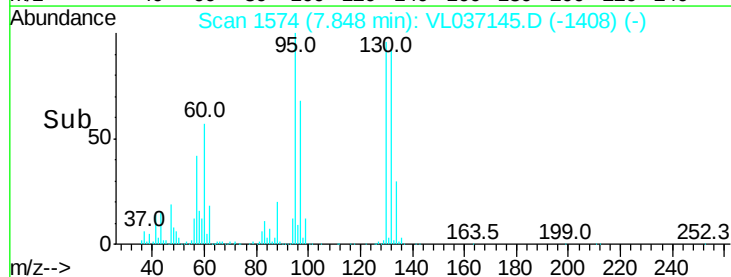
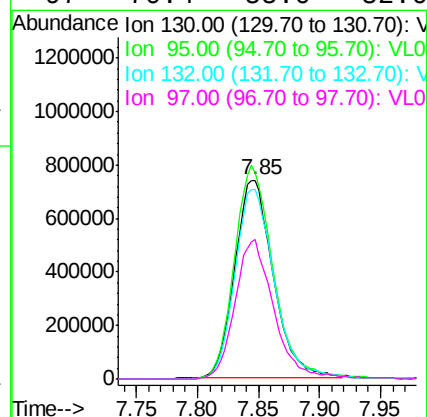
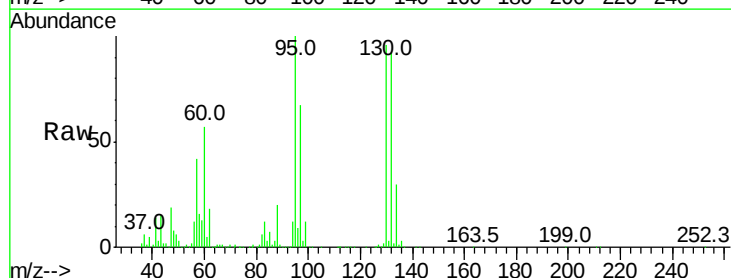
Ion Ratio Lower Upper

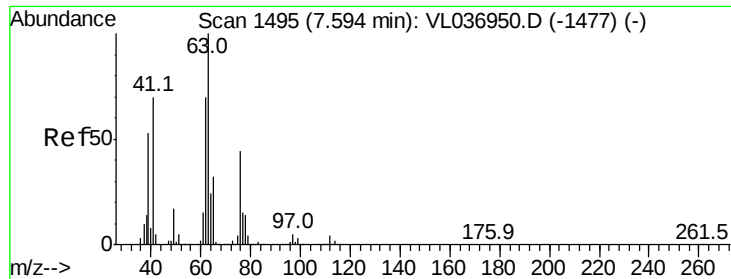
130 100

95 104.4 86.9 130.3

132 96.0 78.4 117.6

97 70.4 55.0 82.6





#39

1,2-Dichloropropane

Concen: 9.325 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

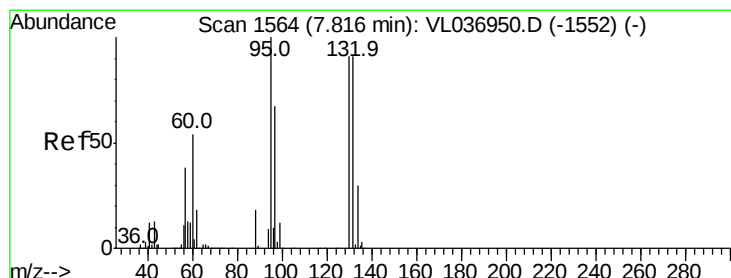
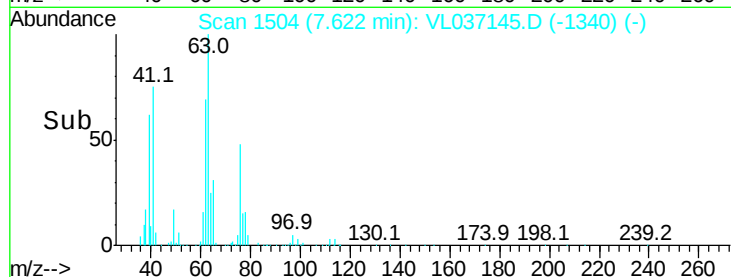
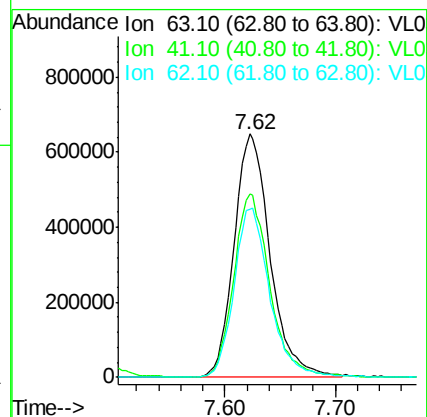
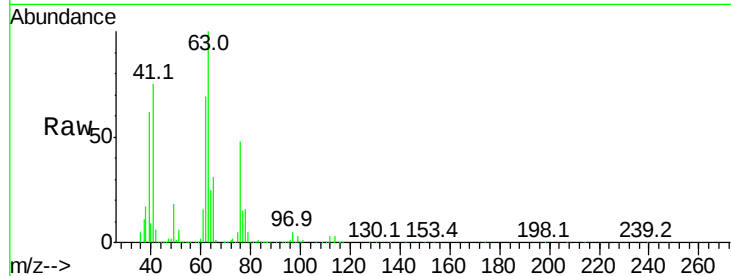
Tgt Ion: 63 Resp: 1464050

Ion Ratio Lower Upper

63 100

41 75.0 55.7 83.5

62 69.2 56.2 84.4



#40

1,4-Dioxane

Concen: 11.134 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Tgt Ion: 88 Resp: 412751

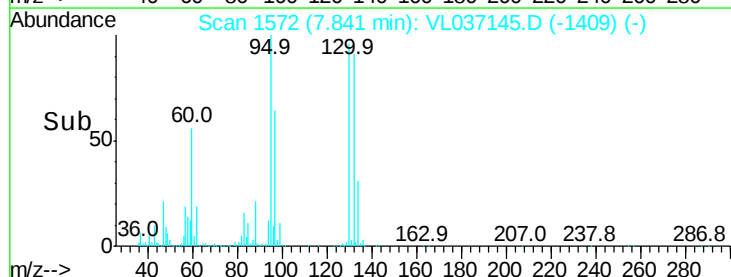
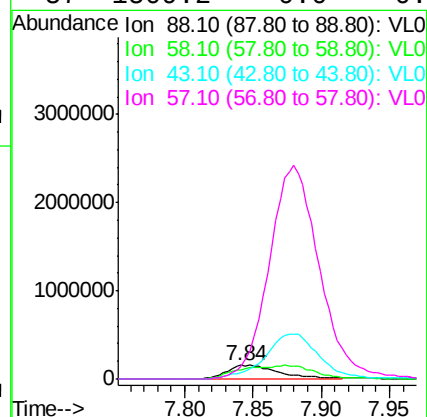
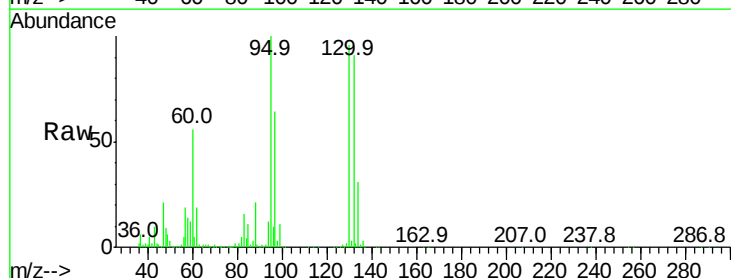
Ion Ratio Lower Upper

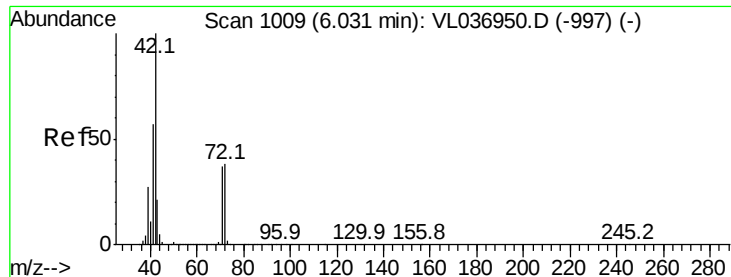
88 100

58 144.5 0.0 0.0#

43 347.9 0.0 0.0#

57 1509.2 0.0 0.0#





#41

Tetrahydrofuran

Concen: 9.264 ppbv

RT: 6.06 min Scan# 1018

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

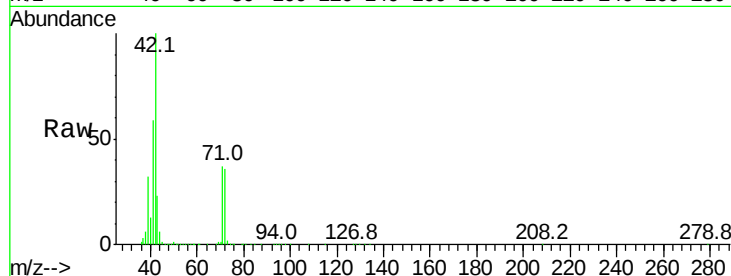
Tgt Ion: 42 Resp: 909042

Ion Ratio Lower Upper

42 100

72 39.6 31.4 47.2

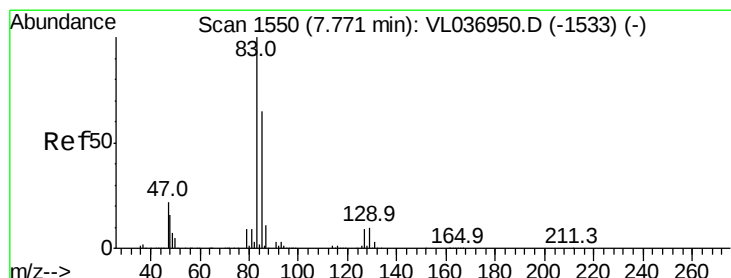
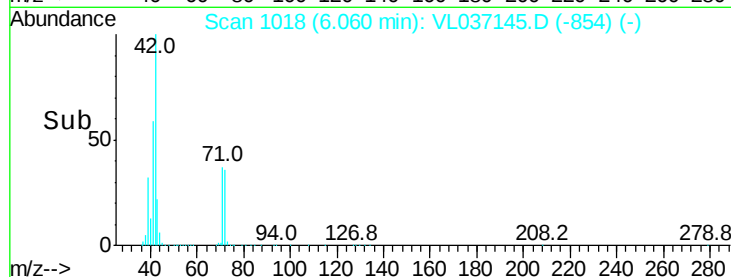
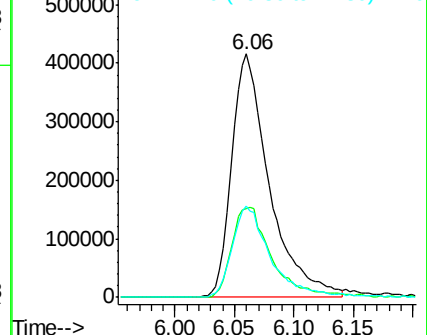
71 38.8 30.4 45.6



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: 10.491 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

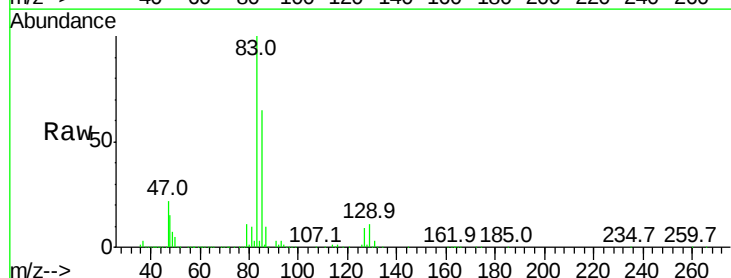
Tgt Ion: 83 Resp: 3206975

Ion Ratio Lower Upper

83 100

85 64.6 51.7 77.5

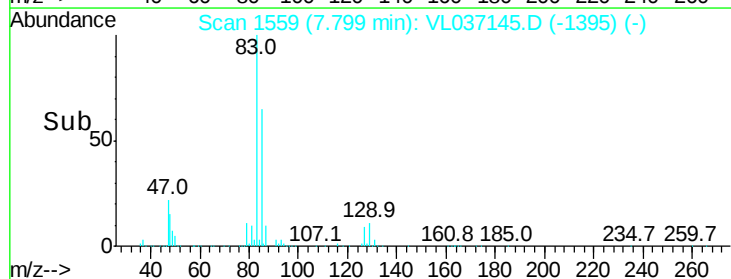
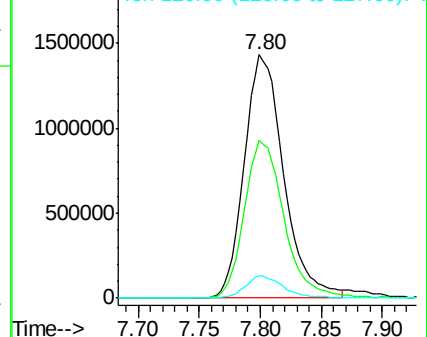
127 9.2 6.9 10.3

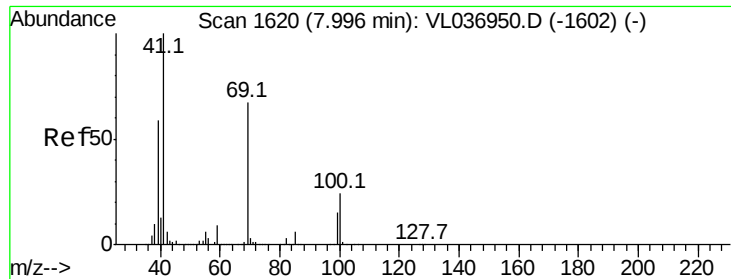


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

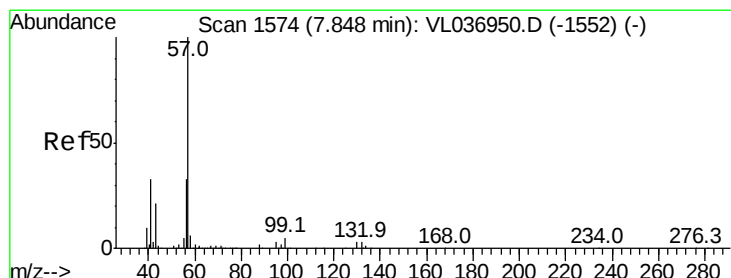
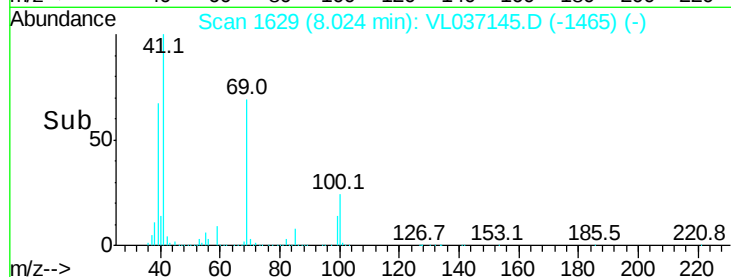
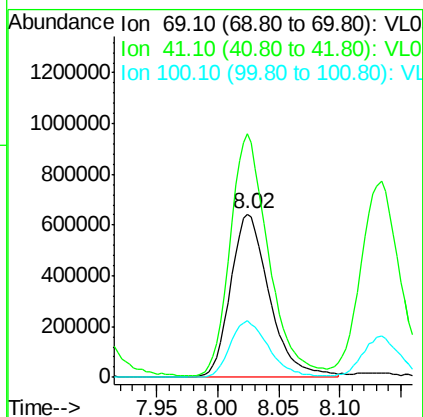
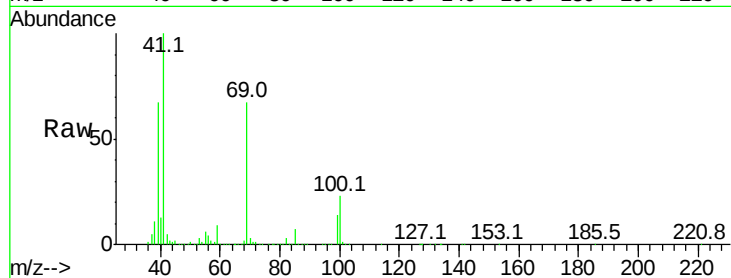




#43  
Methyl Methacrylate  
Concen: 10.140 ppbv  
RT: 8.02 min Scan# 1629  
Delta R.T. 0.03 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

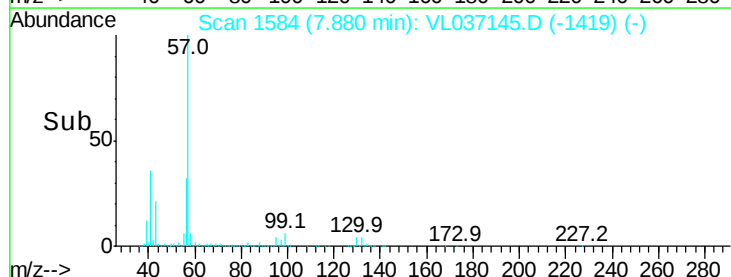
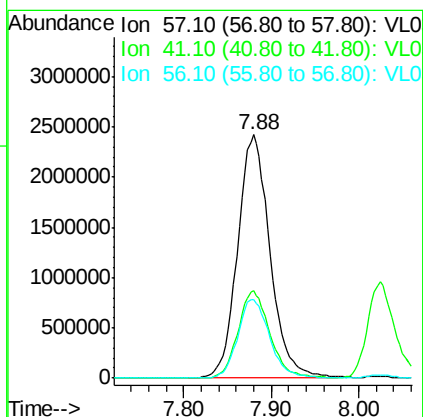
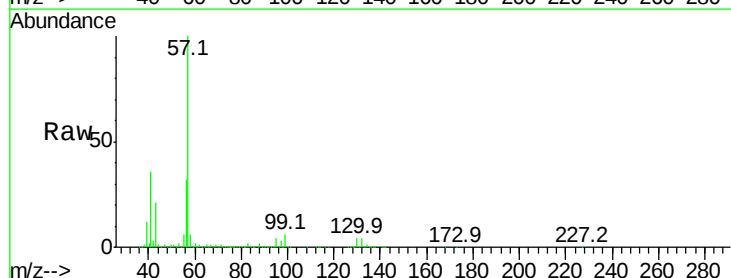
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

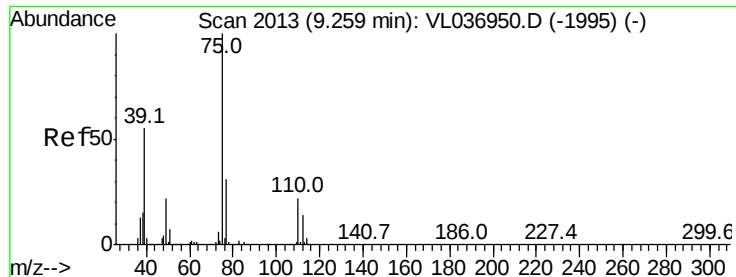
Tgt Ion: 69 Resp: 1424283  
Ion Ratio Lower Upper  
69 100  
41 147.1 118.6 178.0  
100 34.9 28.2 42.4



#44  
2,2,4-Trimethylpentane  
Concen: 8.892 ppbv  
RT: 7.88 min Scan# 1584  
Delta R.T. 0.03 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

Tgt Ion: 57 Resp: 6217148  
Ion Ratio Lower Upper  
57 100  
41 35.1 27.0 40.4  
56 31.8 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 13.412 ppbv

RT: 9.29 min Scan# 2022

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

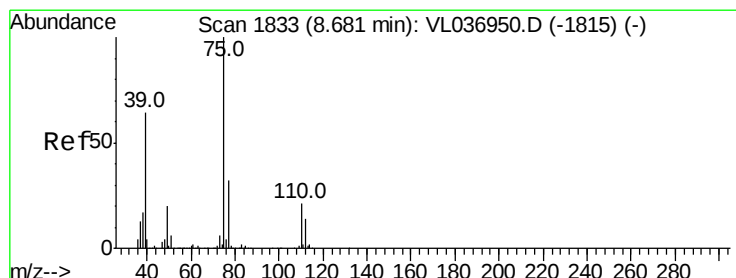
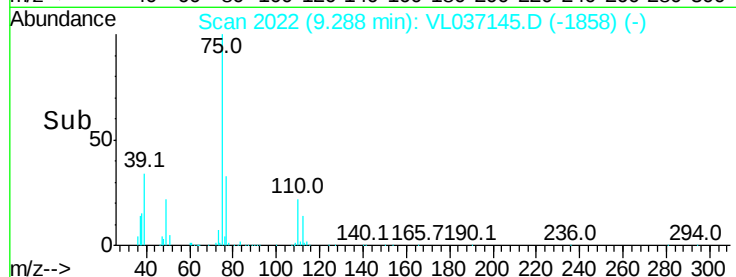
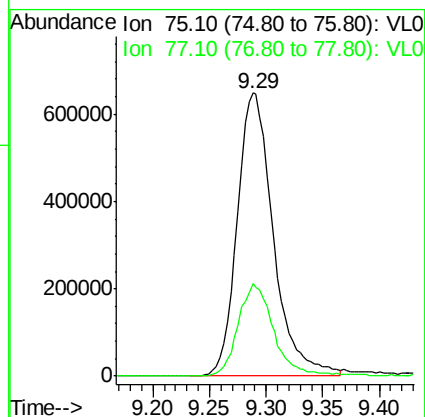
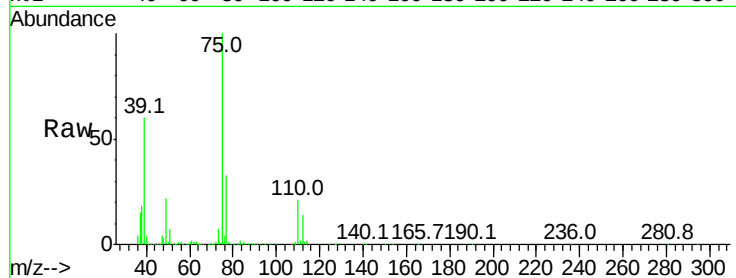
VSTDICCC010

Tgt Ion: 75 Resp: 1439364

Ion Ratio Lower Upper

75 100

77 32.7 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 12.301 ppbv

RT: 8.71 min Scan# 1843

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

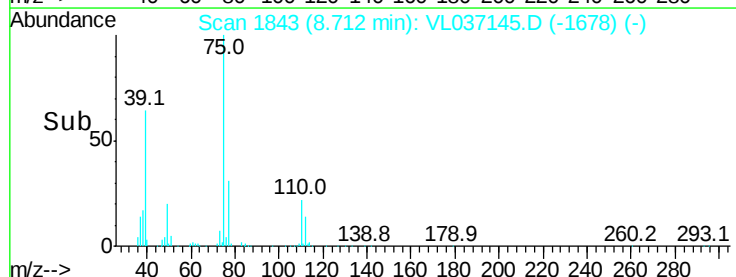
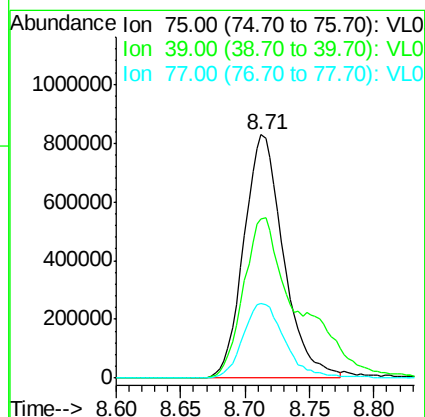
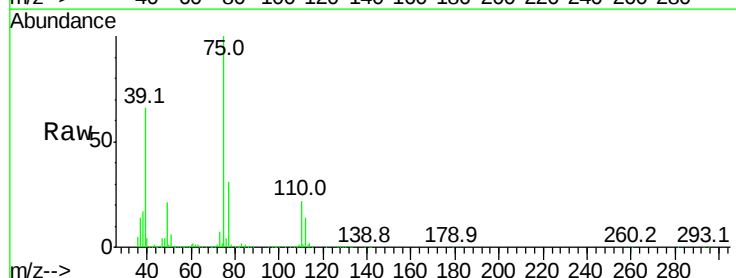
Tgt Ion: 75 Resp: 1775597

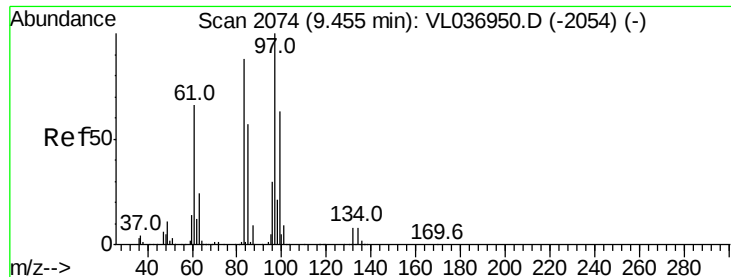
Ion Ratio Lower Upper

75 100

39 65.3 51.5 77.3

77 30.6 25.9 38.9



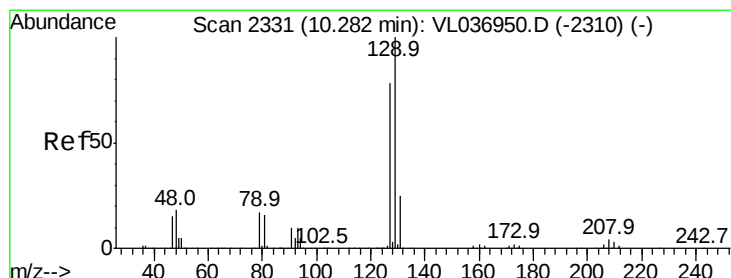
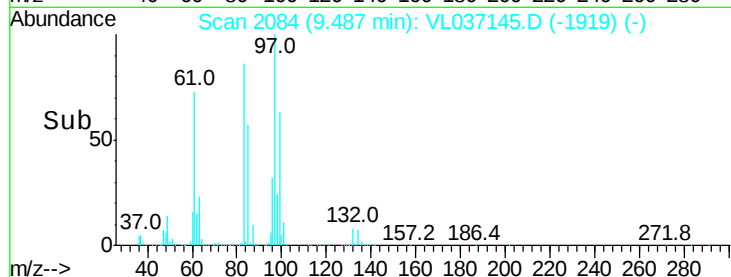
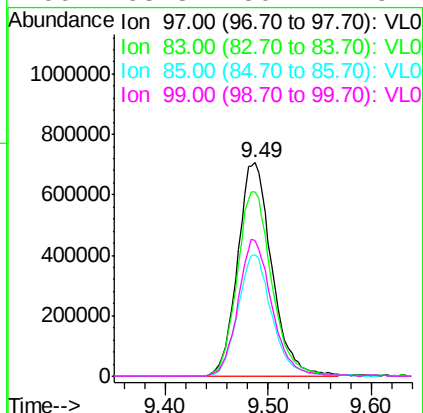
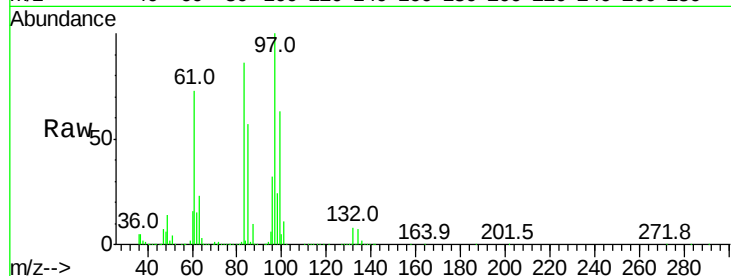


#47  
 1,1,2-Trichloroethane  
 Concen: 9.946 ppbv  
 RT: 9.49 min Scan# 2084  
 Delta R.T. 0.03 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 97 Resp: 1634298

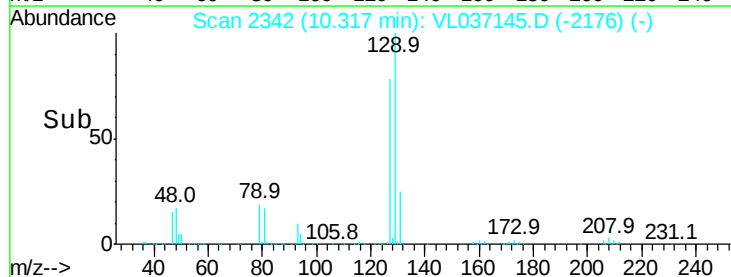
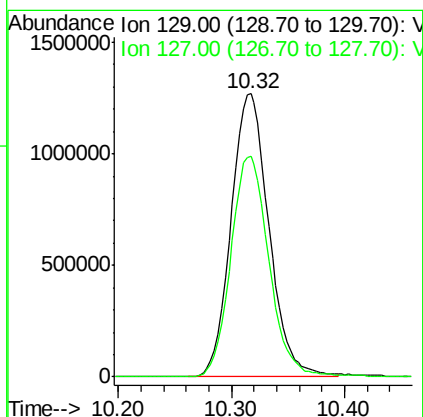
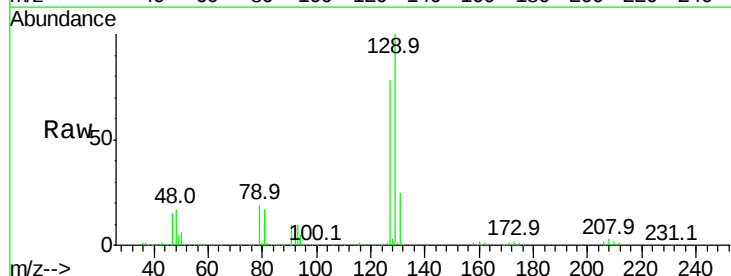
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 83  | 86.2  | 70.4  | 105.6 |
| 85  | 57.1  | 45.5  | 68.3  |
| 99  | 63.3  | 50.2  | 75.2  |

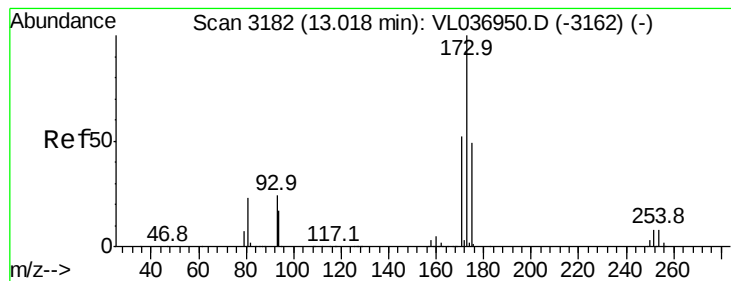


#48  
 Dibromochloromethane  
 Concen: 11.141 ppbv  
 RT: 10.32 min Scan# 2342  
 Delta R.T. 0.04 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

Tgt Ion: 129 Resp: 2964242

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 129 | 100   |       |       |
| 127 | 78.8  | 39.3  | 117.8 |





#49

Bromoform

Concen: 11.329 ppbv

RT: 13.05 min Scan# 3193

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

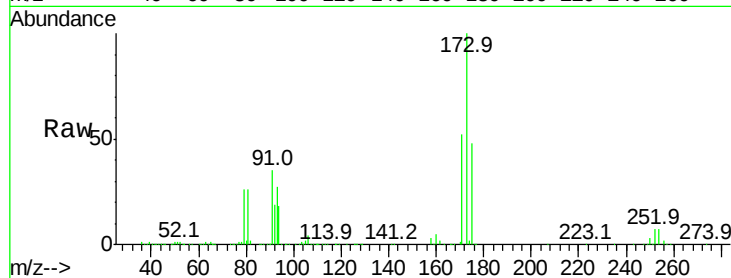
Tgt Ion:173 Resp: 2489305

Ion Ratio Lower Upper

173 100

175 49.7 40.4 60.6

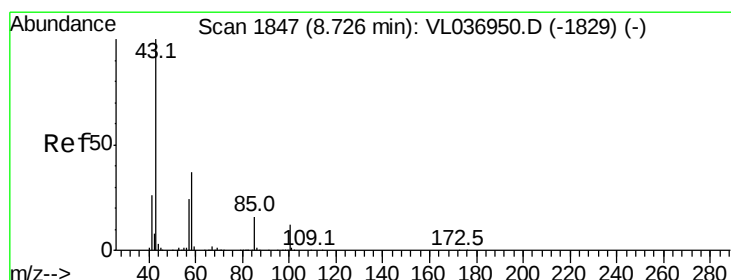
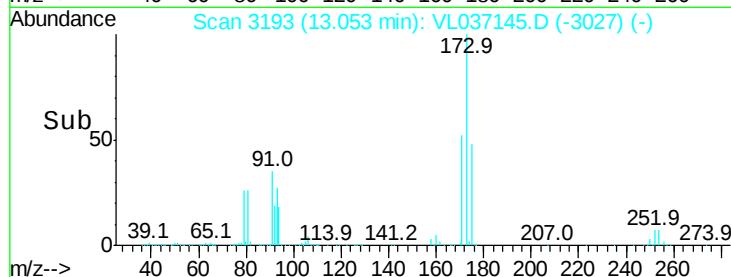
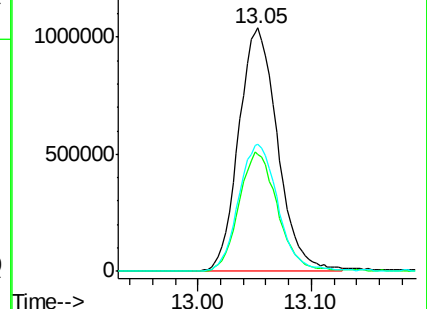
171 53.1 42.6 64.0



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: 9.658 ppbv

RT: 8.75 min Scan# 1856

Delta R.T. 0.03 min

Lab File: VL037145.D

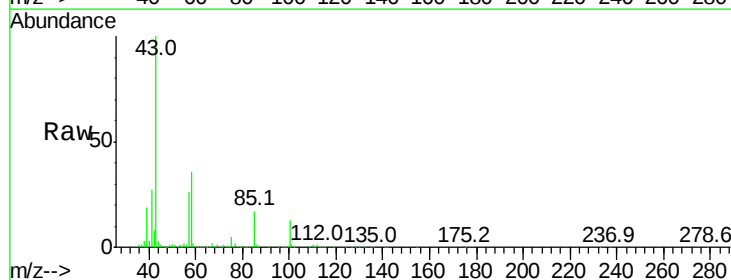
Acq: 14 Jun 2021 11:48

Tgt Ion: 43 Resp: 2745668

Ion Ratio Lower Upper

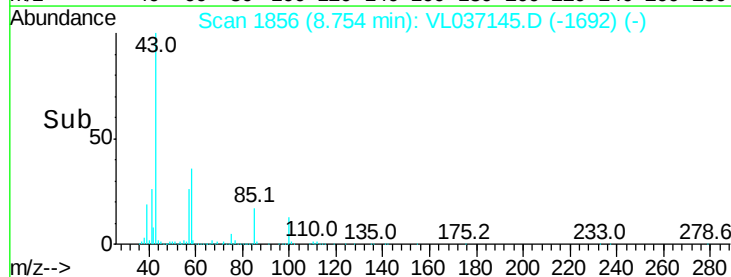
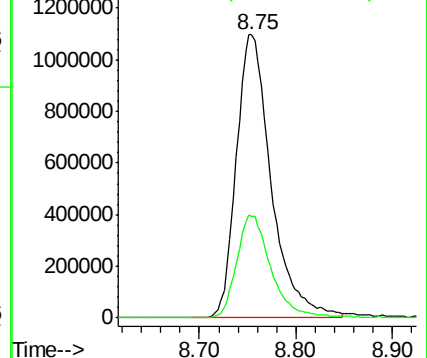
43 100

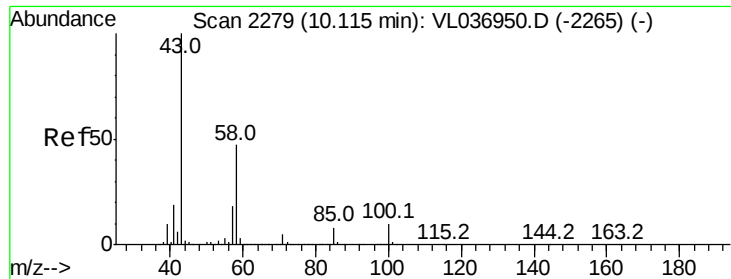
58 36.3 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.586 ppbv

RT: 10.15 min Scan# 2289

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

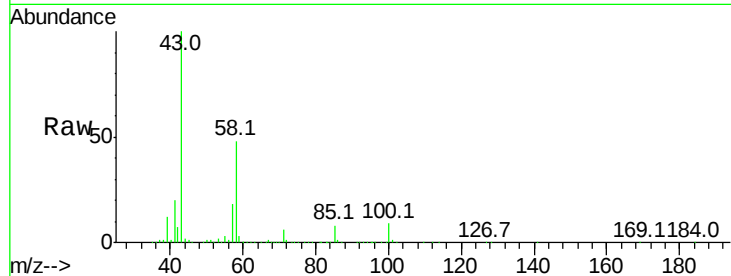
Tgt Ion: 43 Resp: 1440741

Ion Ratio Lower Upper

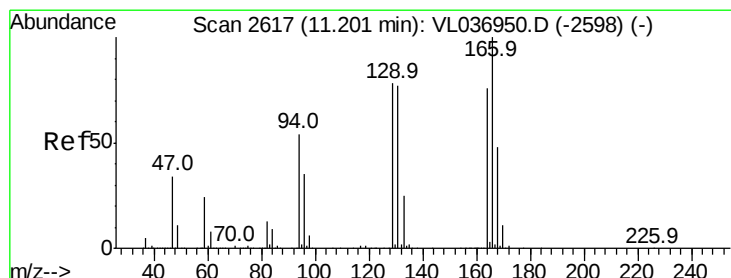
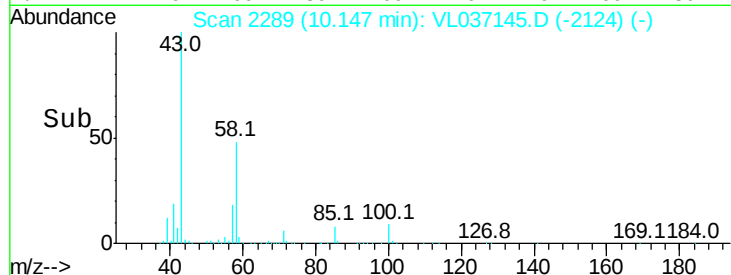
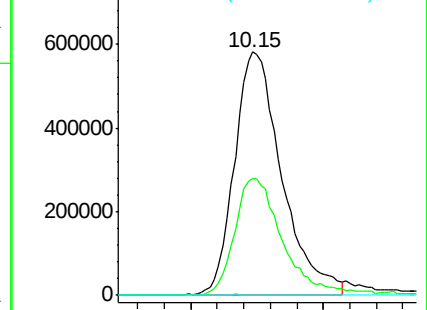
43 100

58 50.1 41.1 61.7

98 0.3 0.1 0.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 9.889 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Tgt Ion: 164 Resp: 1602582

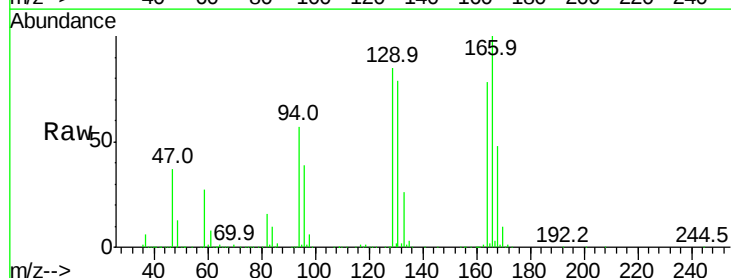
Ion Ratio Lower Upper

164 100

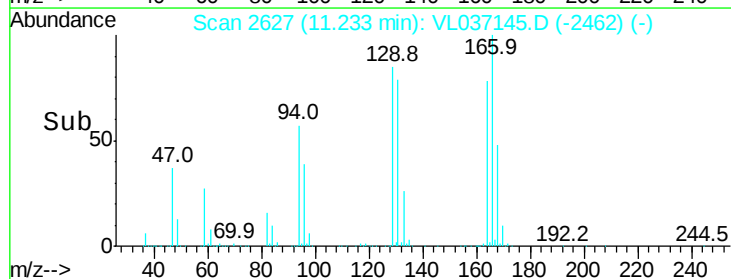
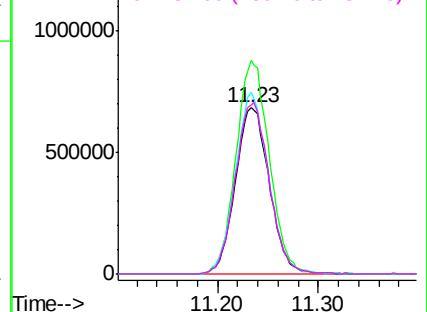
166 128.3 105.5 158.3

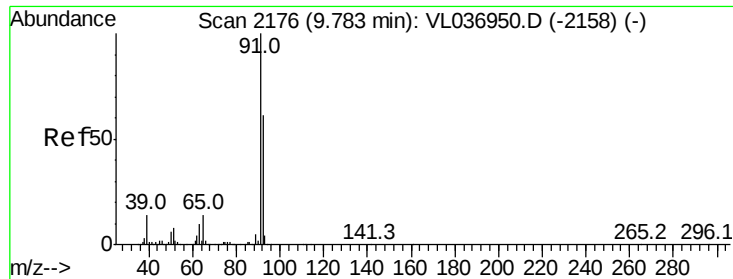
129 109.3 81.8 122.8

131 101.8 81.2 121.8



Abundance Ion 163.90 (163.60 to 164.60): V  
Ion 165.90 (165.60 to 166.60): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.520 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

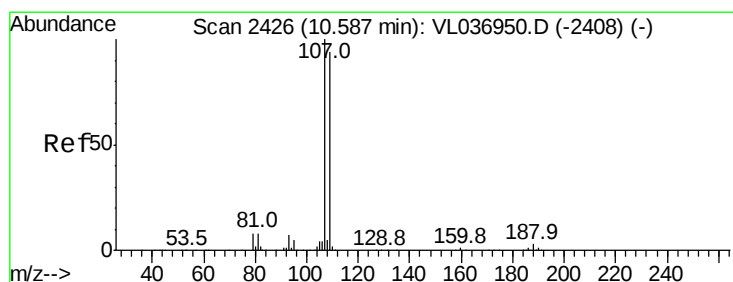
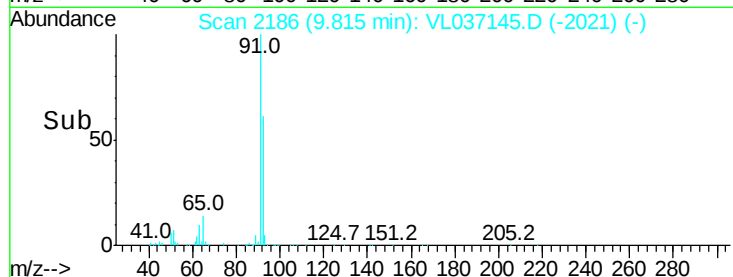
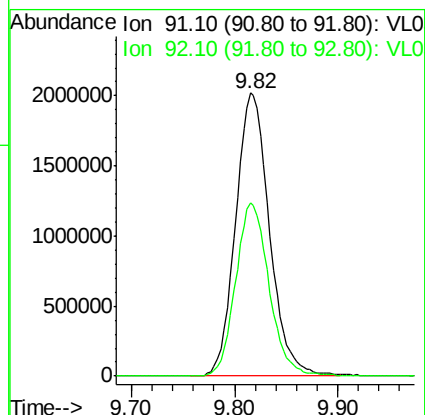
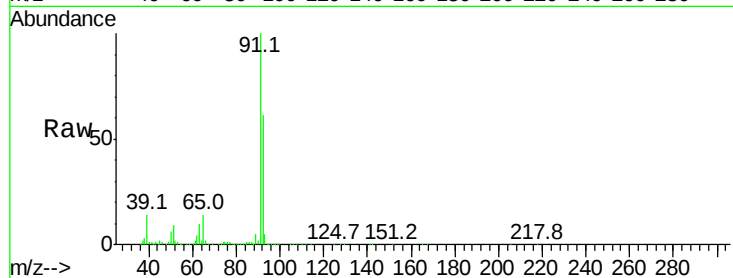
VSTDICCC010

Tgt Ion: 91 Resp: 4616566

Ion Ratio Lower Upper

91 100

92 60.8 49.5 74.3



#54

1,2-Dibromoethane

Concen: 10.650 ppbv

RT: 10.62 min Scan# 2437

Delta R.T. 0.04 min

Lab File: VL037145.D

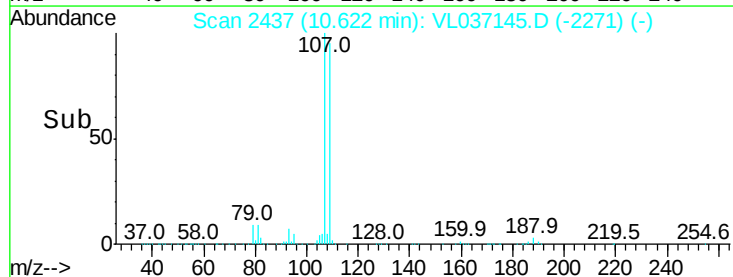
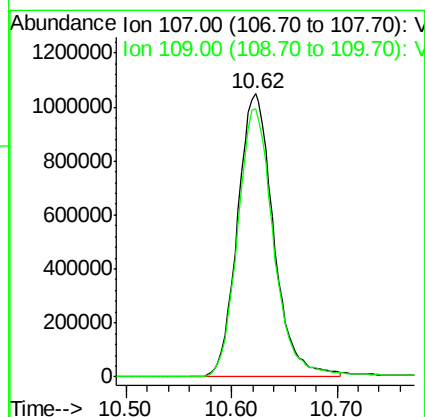
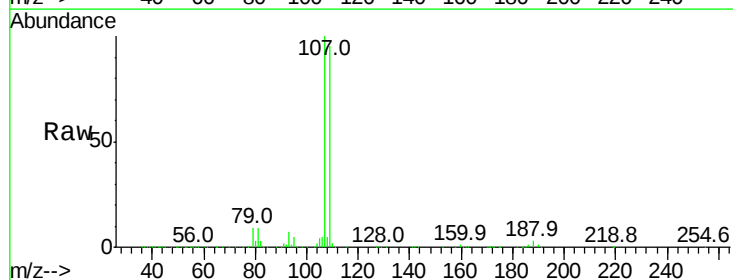
Acq: 14 Jun 2021 11:48

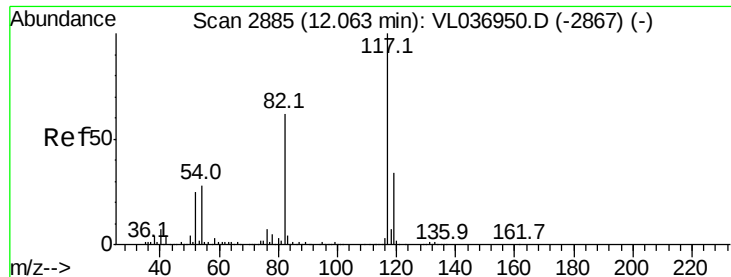
Tgt Ion: 107 Resp: 2487999

Ion Ratio Lower Upper

107 100

109 94.5 75.0 112.4

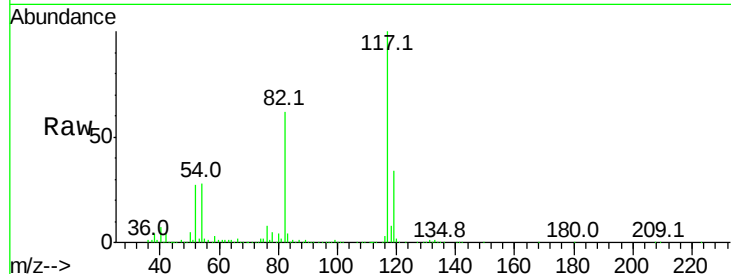




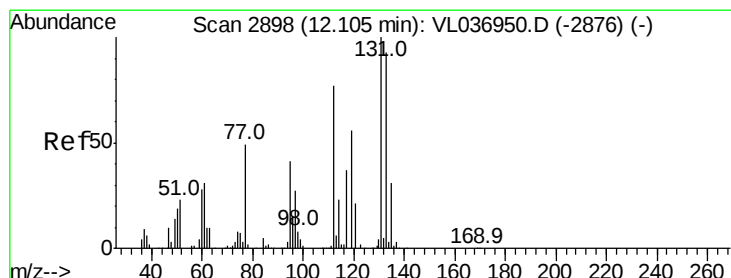
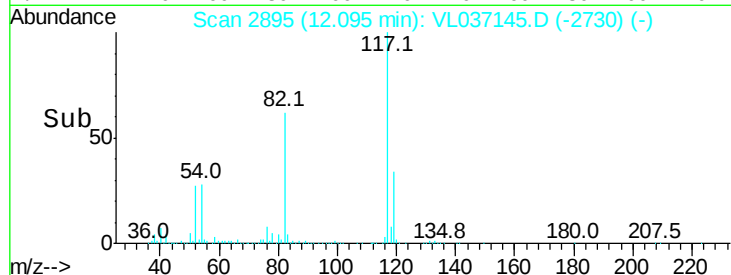
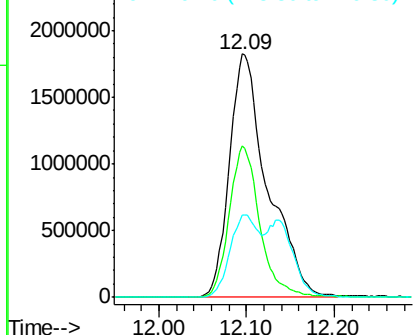
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.09 min Scan# 2895  
Delta R.T. 0.03 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:117 Resp: 5546298  
Ion Ratio Lower Upper  
117 100  
82 50.5 52.6 79.0#  
119 27.0 46.6 70.0#

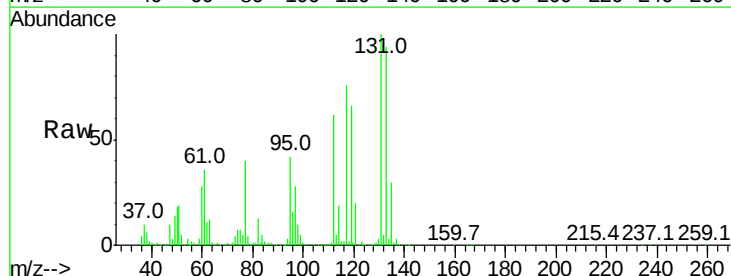


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): V  
Ion 119.10 (118.80 to 119.80): V

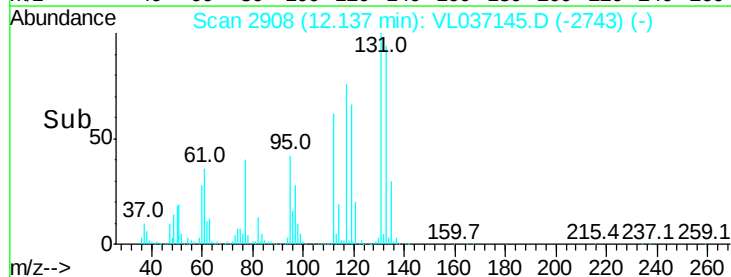
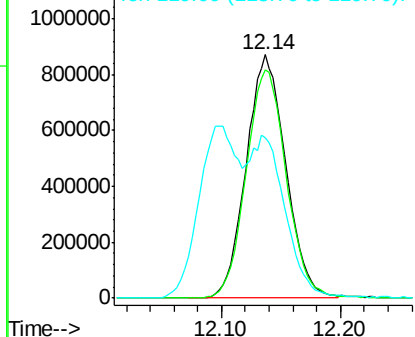


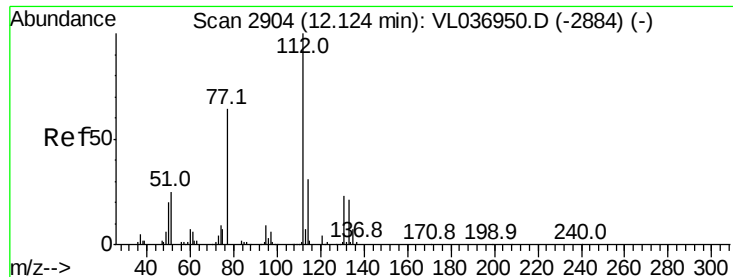
#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.578 ppbv  
RT: 12.14 min Scan# 2908  
Delta R.T. 0.03 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

Tgt Ion:131 Resp: 2001881  
Ion Ratio Lower Upper  
131 100  
133 95.9 76.9 115.3  
119 63.4 120.2 180.4#



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

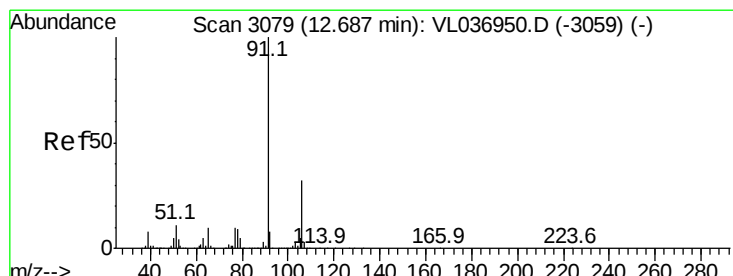
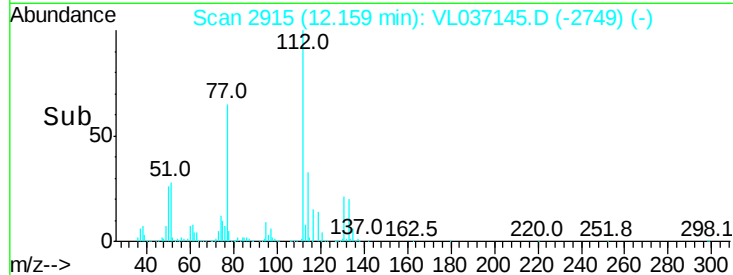
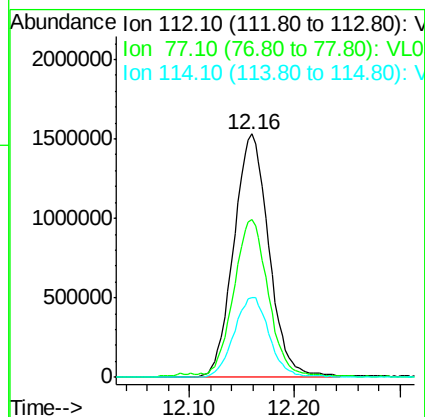
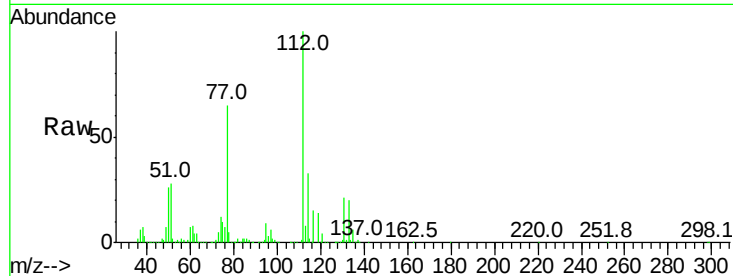




#57  
Chlorobenzene  
Concen: 8.221 ppbv  
RT: 12.16 min Scan# 2915  
Delta R.T. 0.04 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

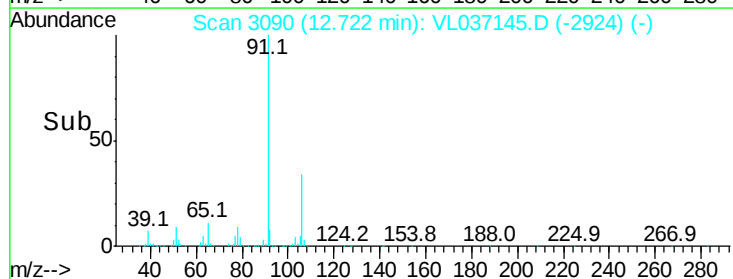
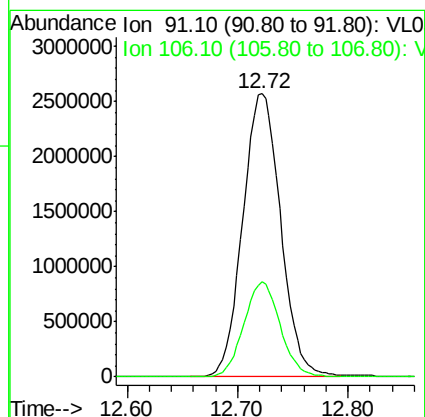
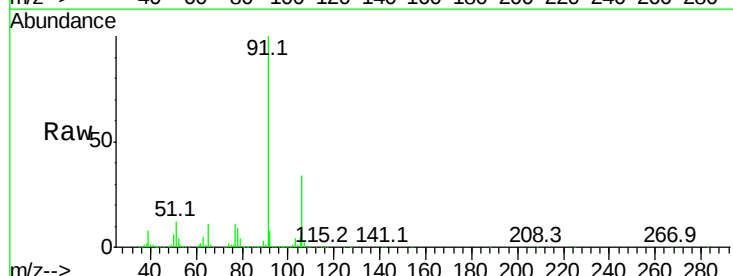
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

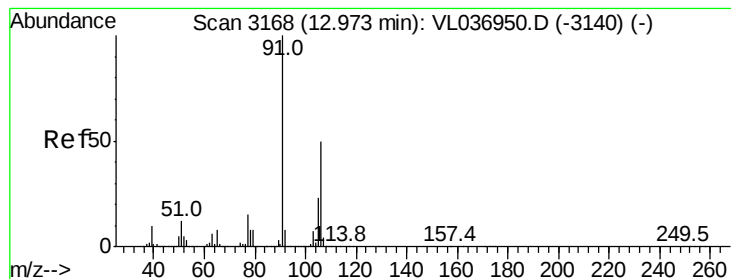
Tgt Ion: 112 Resp: 3535545  
Ion Ratio Lower Upper  
112 100  
77 64.3 51.0 76.6  
114 33.0 28.3 34.5



#58  
Ethyl Benzene  
Concen: 7.829 ppbv  
RT: 12.72 min Scan# 3090  
Delta R.T. 0.04 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

Tgt Ion: 91 Resp: 6128664  
Ion Ratio Lower Upper  
91 100  
106 33.5 25.6 38.4





#59

m/p-Xylene

Concen: 7.925 ppbv

RT: 13.01 min Scan# 3179

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

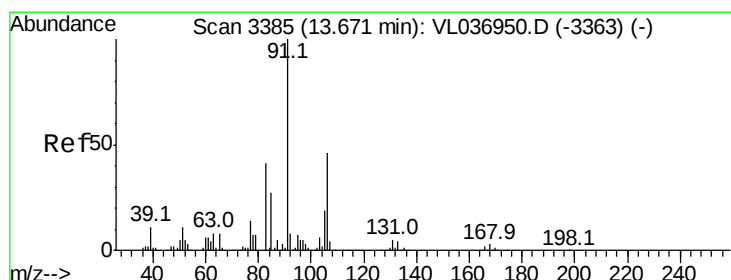
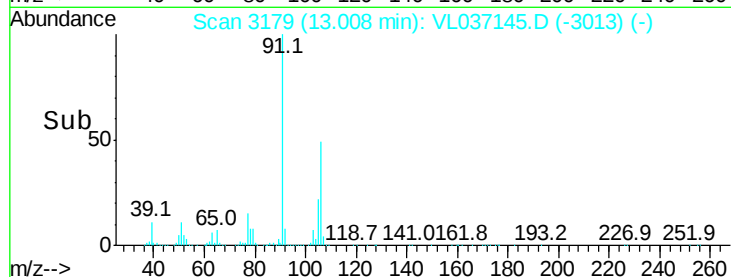
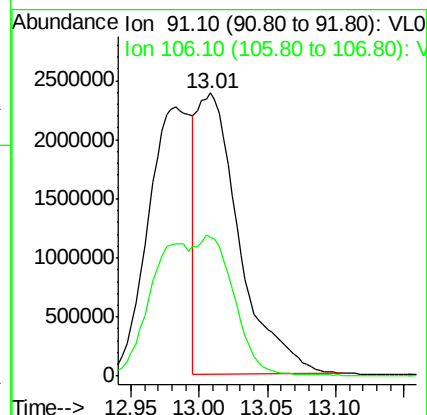
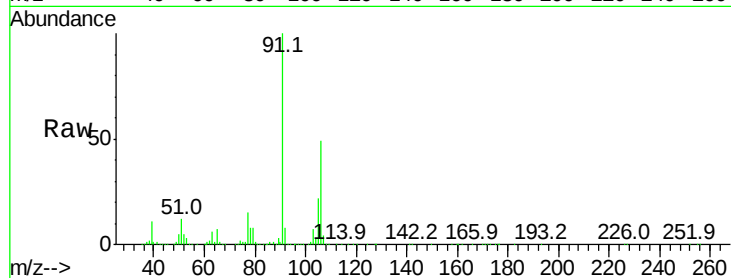
VSTDICCC010

Tgt Ion: 91 Resp: 5128026

Ion Ratio Lower Upper

91 100

106 92.7 37.4 56.2#



#60

o-Xylene

Concen: 7.985 ppbv

RT: 13.70 min Scan# 3395

Delta R.T. 0.03 min

Lab File: VL037145.D

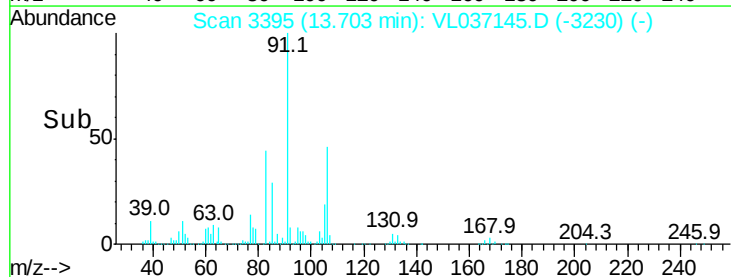
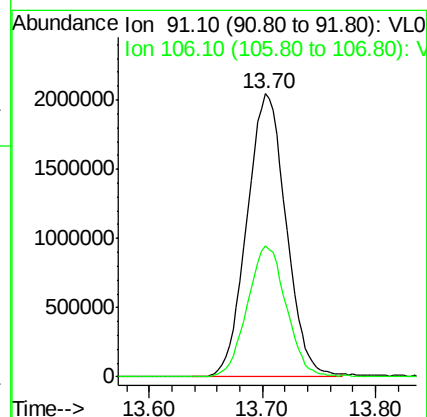
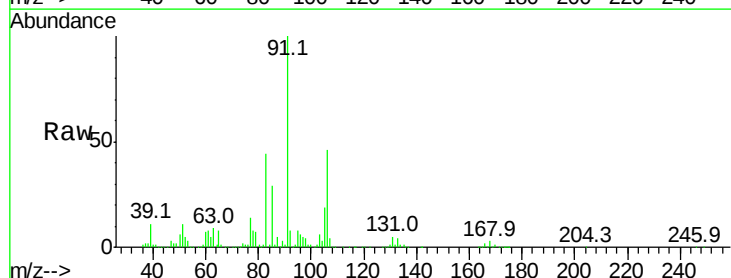
Acq: 14 Jun 2021 11:48

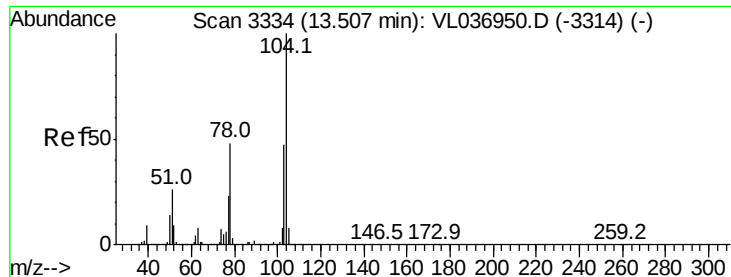
Tgt Ion: 91 Resp: 4927411

Ion Ratio Lower Upper

91 100

106 46.2 23.4 70.3

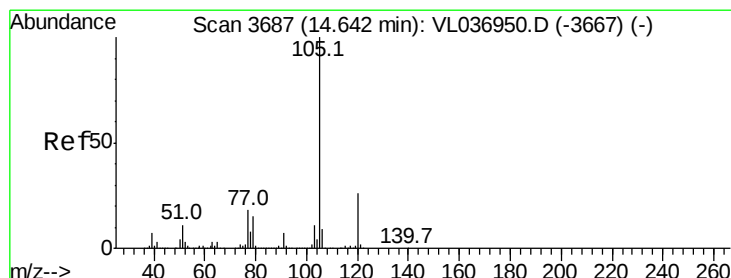
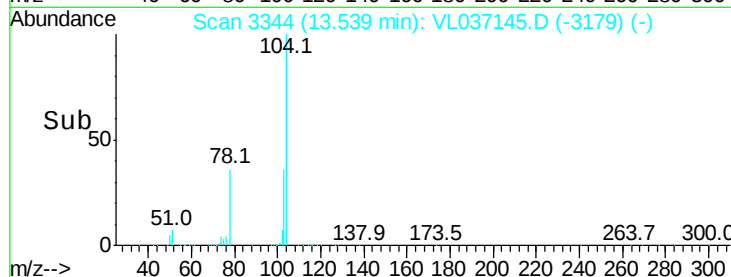
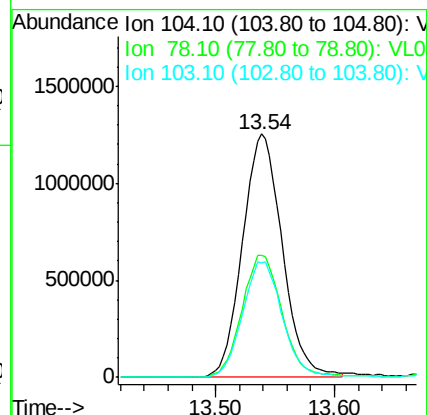
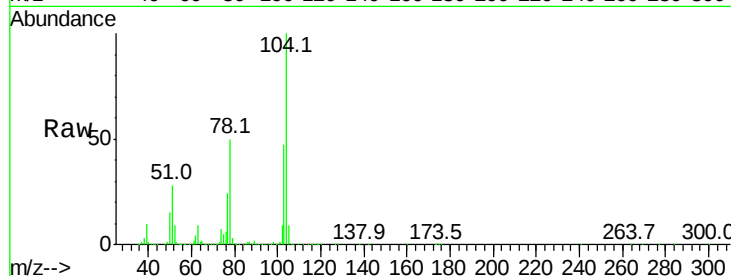




#61  
Styrene  
Concen: 8.331 ppbv  
RT: 13.54 min Scan# 3344  
Delta R.T. 0.03 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

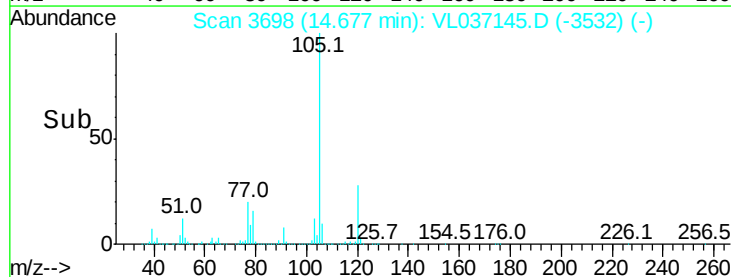
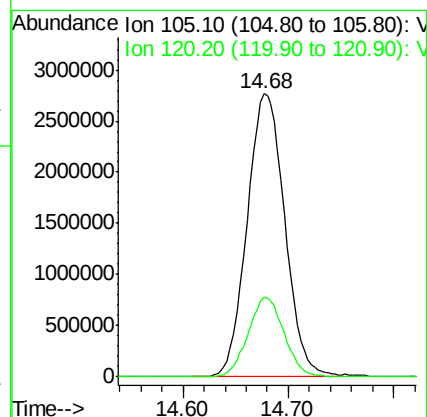
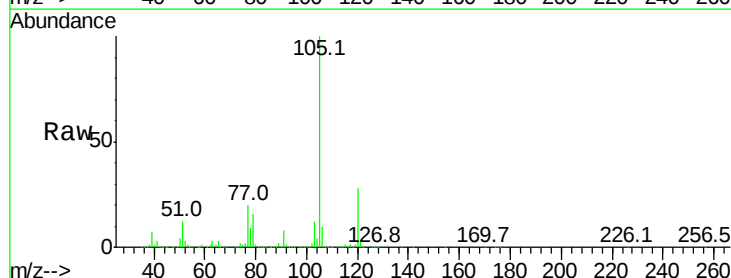
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

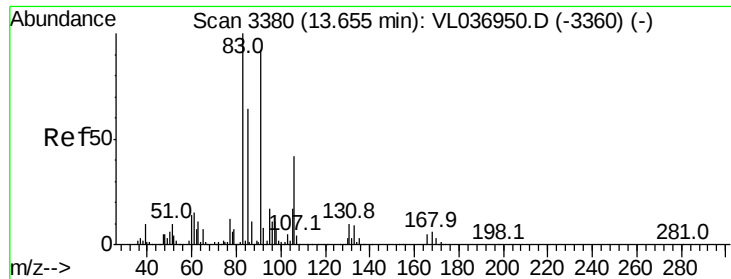
Tgt Ion:104 Resp: 2896457  
Ion Ratio Lower Upper  
104 100  
78 51.1 39.0 58.6  
103 48.3 38.0 57.0



#62  
Isopropylbenzene  
Concen: 7.756 ppbv  
RT: 14.68 min Scan# 3698  
Delta R.T. 0.04 min  
Lab File: VL037145.D  
Acq: 14 Jun 2021 11:48

Tgt Ion:105 Resp: 6878649  
Ion Ratio Lower Upper  
105 100  
120 27.2 21.7 32.5





#63

1,1,2,2-Tetrachloroethane

Concen: 7.246 ppbv

RT: 13.69 min Scan# 3391

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

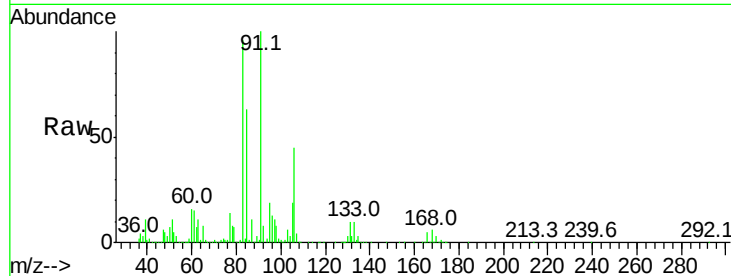
Tgt Ion: 83 Resp: 3339575

Ion Ratio Lower Upper

83 100

131 10.8 5.0 15.0

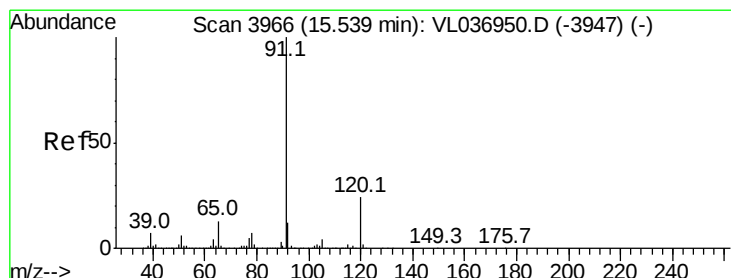
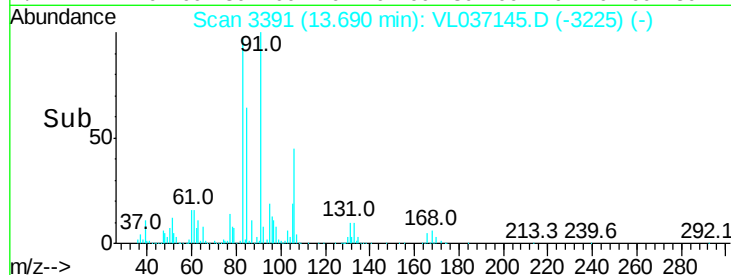
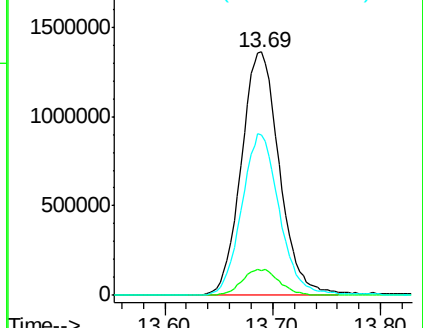
85 66.6 32.9 98.6



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: 8.186 ppbv

RT: 15.57 min Scan# 3976

Delta R.T. 0.03 min

Lab File: VL037145.D

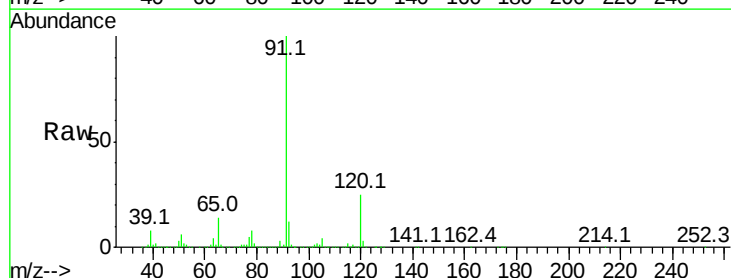
Acq: 14 Jun 2021 11:48

Tgt Ion: 120 Resp: 1873106

Ion Ratio Lower Upper

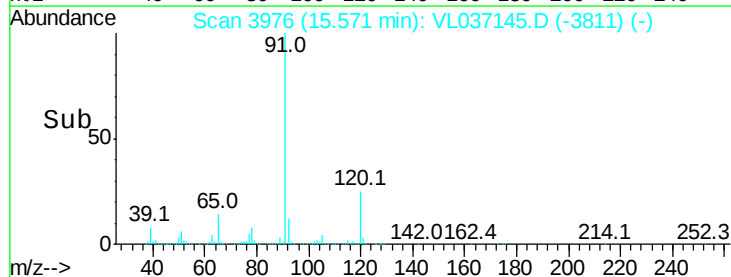
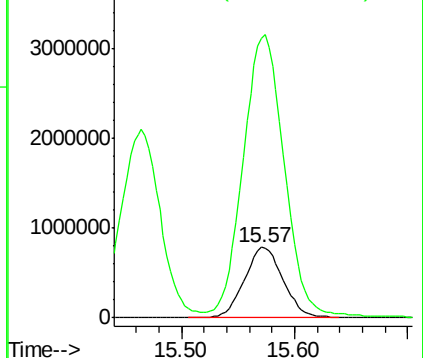
120 100

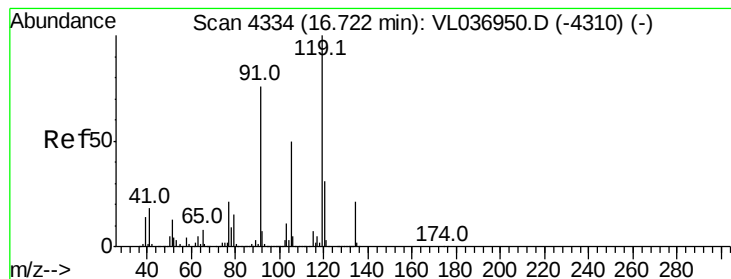
91 427.8 343.8 515.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.805 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

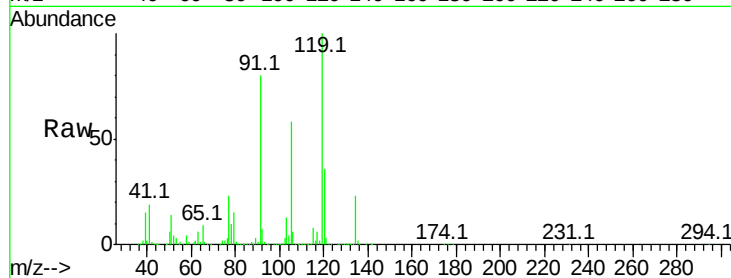
Tgt Ion:119 Resp: 6246771

Ion Ratio Lower Upper

119 100

91 78.5 61.9 92.9

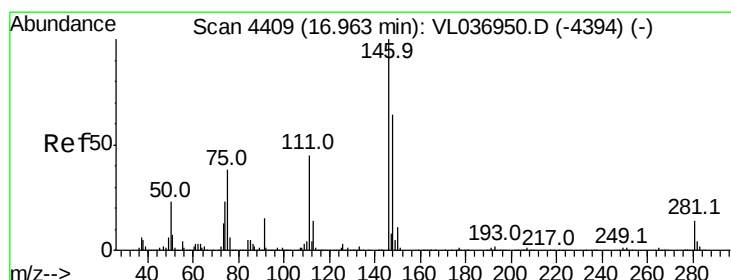
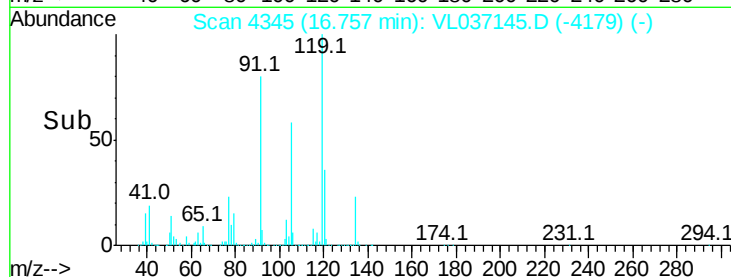
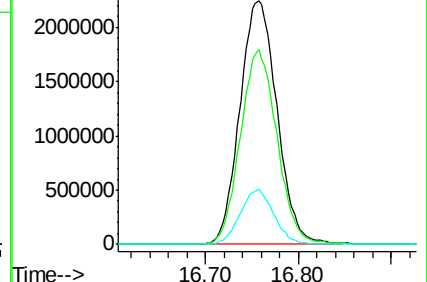
134 20.6 16.2 24.4



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 7.678 ppbv

RT: 17.00 min Scan# 4419

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

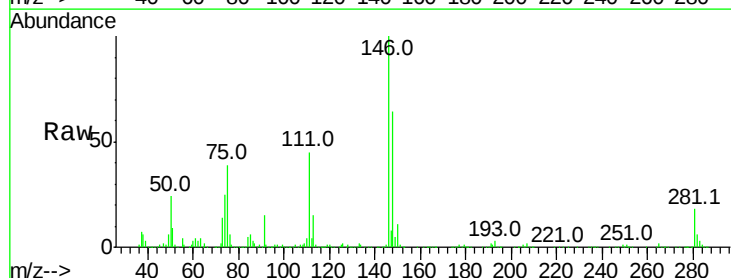
Tgt Ion: 91 Resp: 340953

Ion Ratio Lower Upper

91 100

126 20.5 16.5 24.7

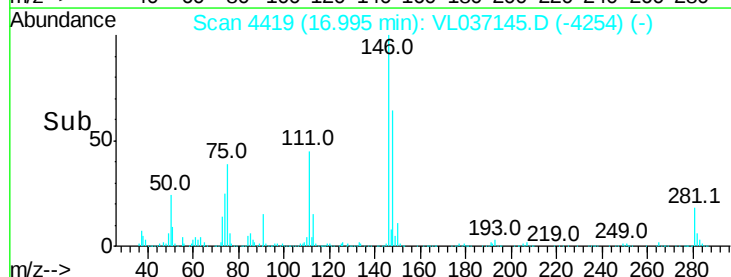
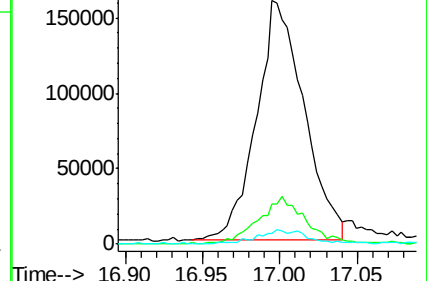
128 7.1 5.5 8.3

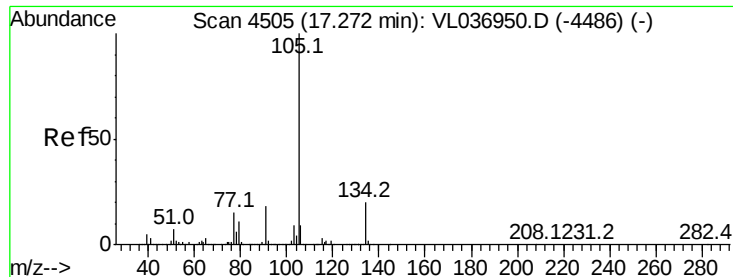


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

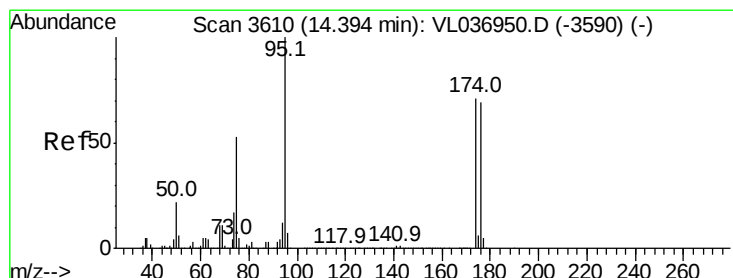
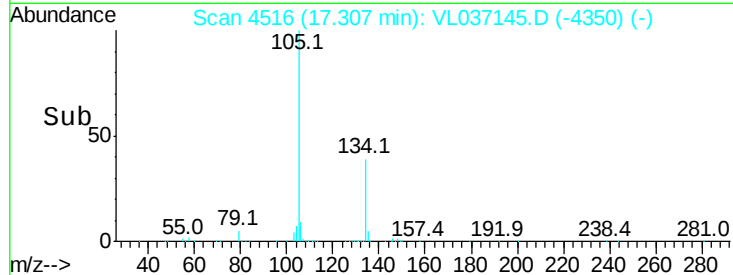
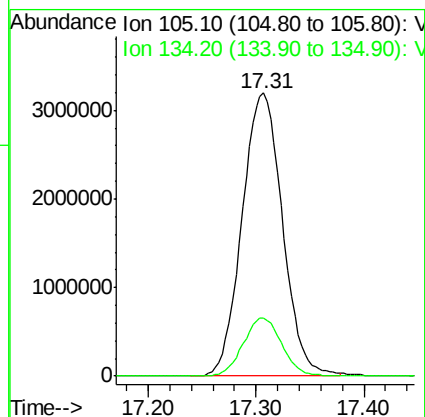
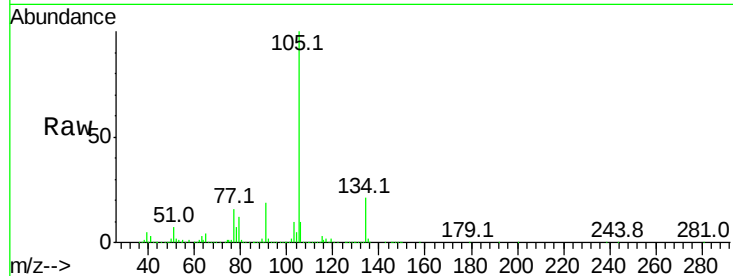




#67  
 sec-Butylbenzene  
 Concen: 7.610 ppbv  
 RT: 17.31 min Scan# 4516  
 Delta R.T. 0.04 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

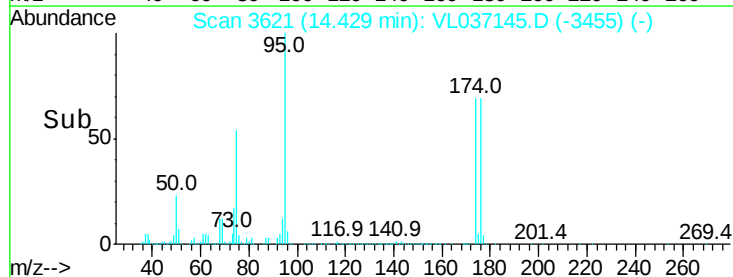
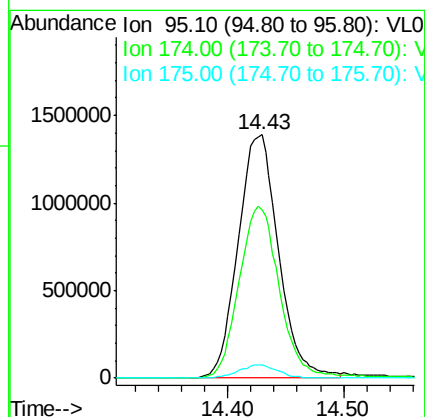
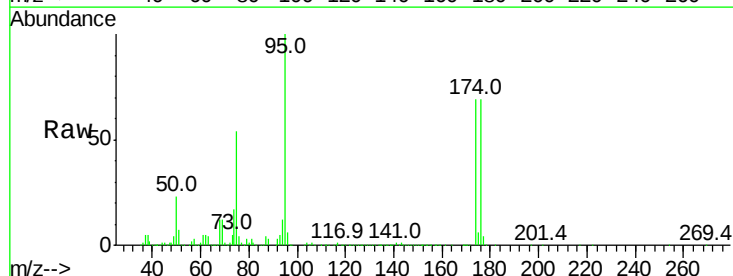
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

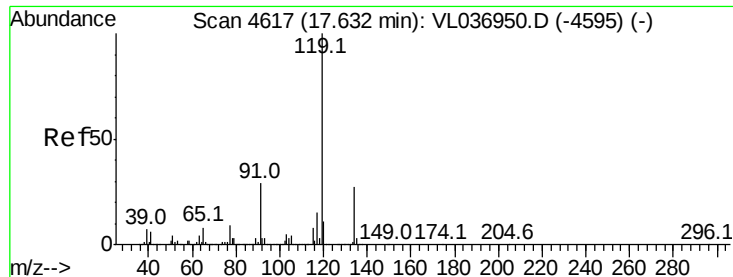
Tgt Ion: 105 Resp: 8308559  
 Ion Ratio Lower Upper  
 105 100  
 134 20.0 15.6 23.4



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.102 ppbv  
 RT: 14.43 min Scan# 3621  
 Delta R.T. 0.04 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

Tgt Ion: 95 Resp: 3375887  
 Ion Ratio Lower Upper  
 95 100  
 174 72.0 58.4 87.6  
 175 5.5 4.4 6.6



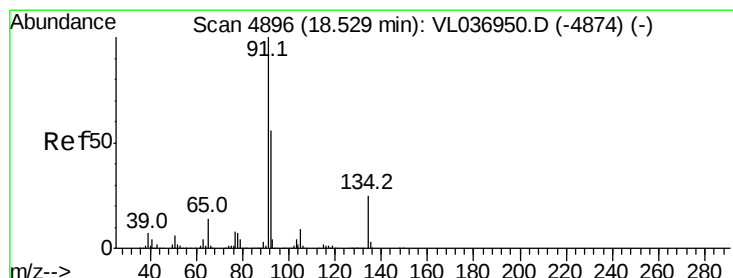
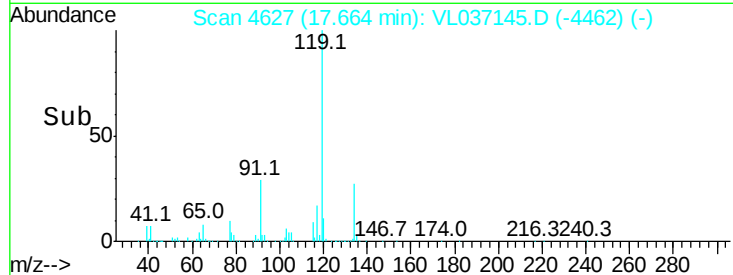
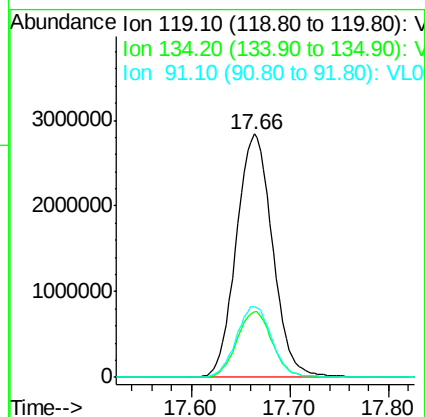
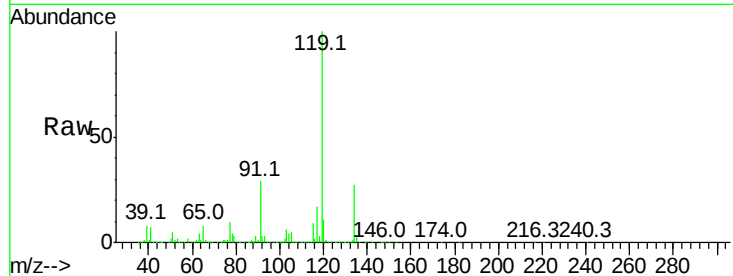


#69  
 p-Isopropyltoluene  
 Concen: 7.696 ppbv  
 RT: 17.66 min Scan# 4627  
 Delta R.T. 0.03 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 119 Resp: 7224678  

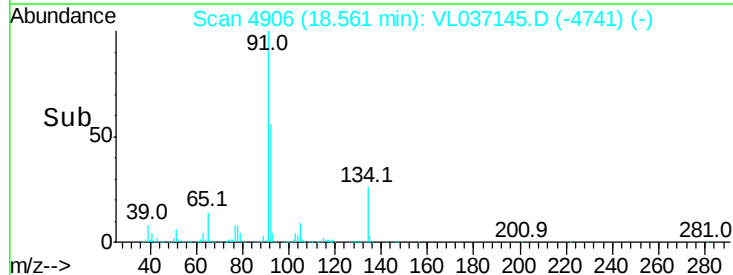
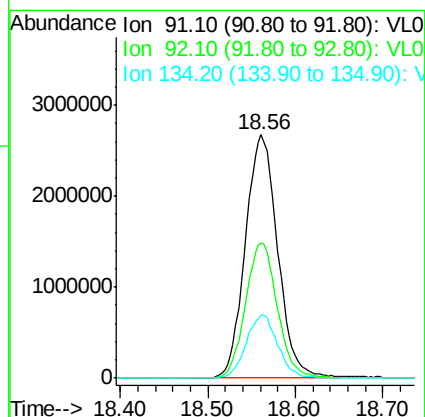
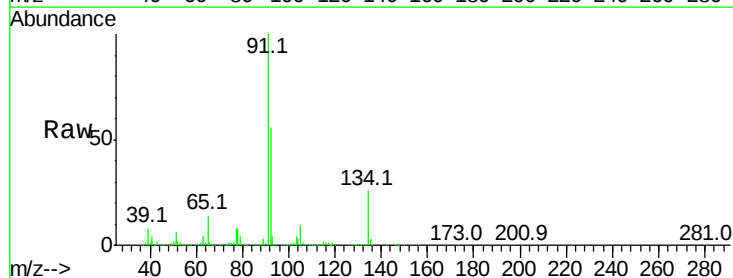
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 26.5  | 21.2  | 31.8  |
| 91  | 28.6  | 22.2  | 33.4  |

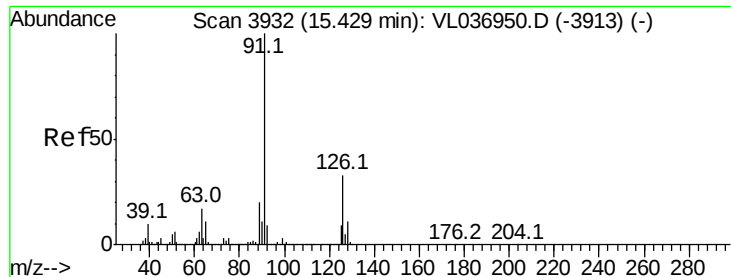


#70  
 n-Butylbenzene  
 Concen: 7.671 ppbv  
 RT: 18.56 min Scan# 4906  
 Delta R.T. 0.03 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

Tgt Ion: 91 Resp: 6840390  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 55.0  | 44.6  | 66.8  |
| 134 | 25.5  | 20.2  | 30.2  |





#71

2-Chlorotoluene

Concen: 7.895 ppbv

RT: 15.46 min Scan# 3943

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

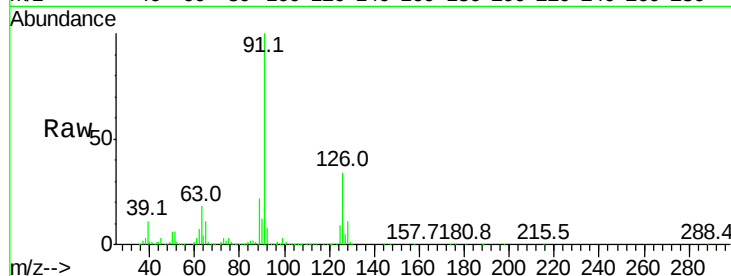
VSTDICCC010

Tgt Ion: 91 Resp: 5057414

Ion Ratio Lower Upper

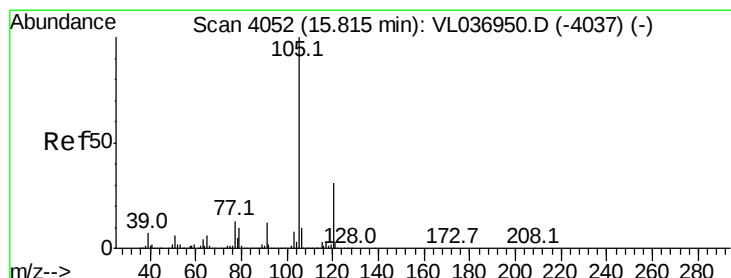
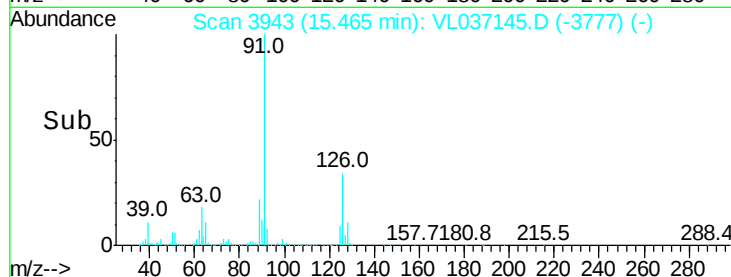
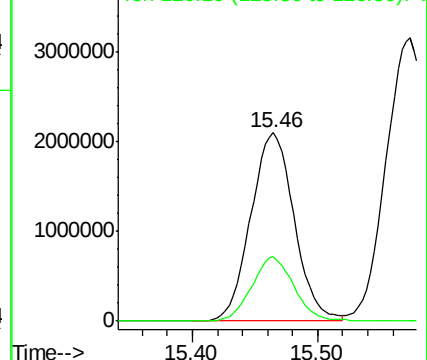
91 100

126 33.5 13.1 52.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): VL0



#72

4-Ethyltoluene

Concen: 8.094 ppbv

RT: 15.85 min Scan# 4063

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Tgt Ion: 105 Resp: 5928708

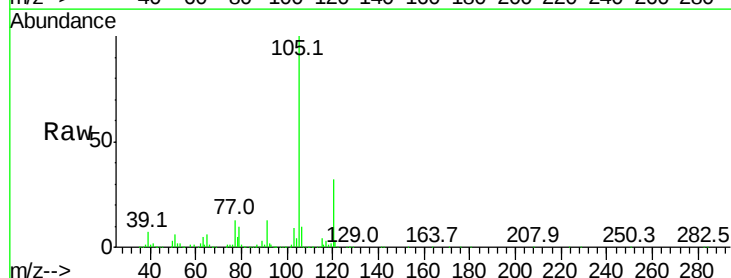
Ion Ratio Lower Upper

105 100

120 31.4 24.6 37.0

91 12.9 9.8 14.6

77 13.8 10.4 15.6

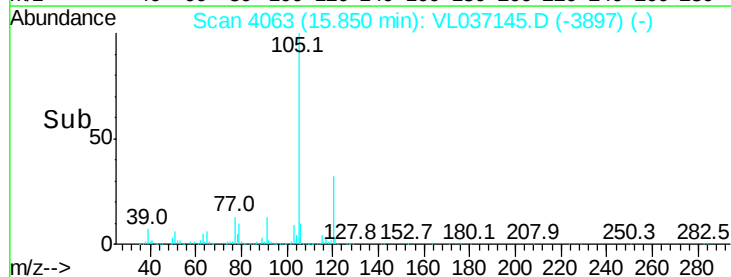
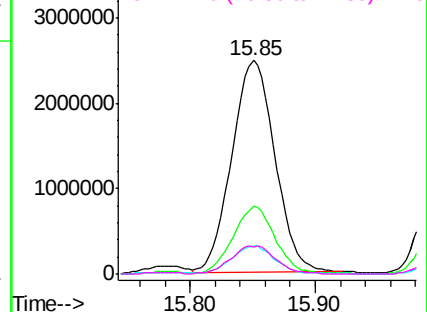


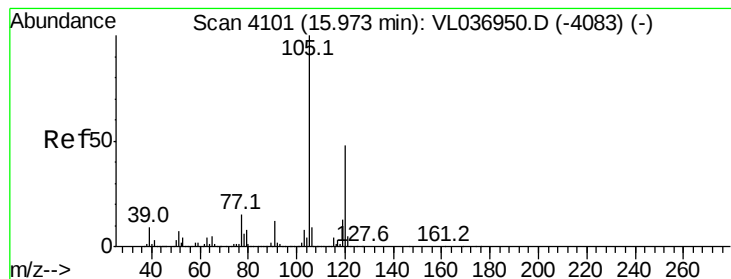
Abundance Ion 105.10 (104.80 to 105.80): VL0

Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 7.865 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

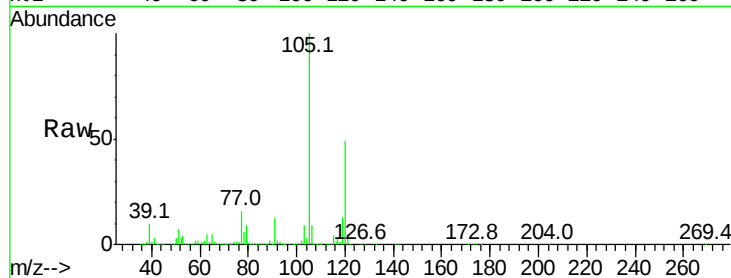
VSTDICCC010

Tgt Ion:105 Resp: 5409481

Ion Ratio Lower Upper

105 100

120 49.6 38.6 58.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.01

2500000

2000000

1500000

1000000

500000

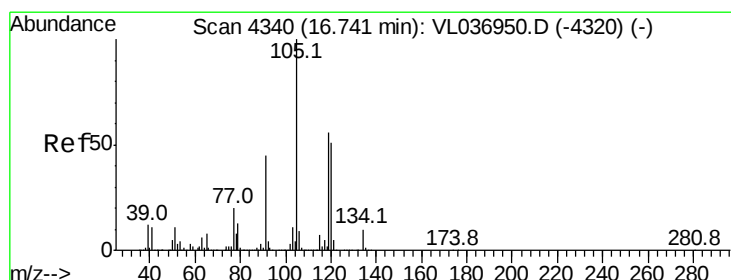
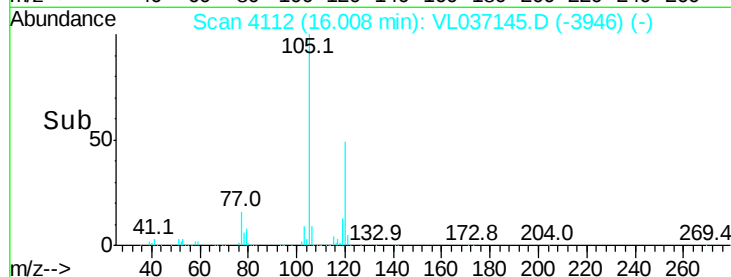
0

Time-->

15.90

16.00

16.10



#74

1,2,4-Trimethylbenzene

Concen: 7.899 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Tgt Ion:105 Resp: 5617416

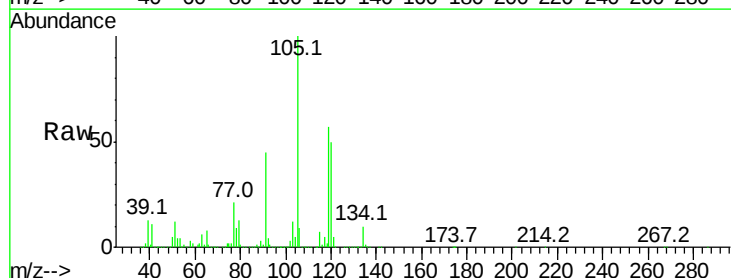
Ion Ratio Lower Upper

105 100

120 49.6 40.6 61.0

91 44.8 37.4 56.0

77 20.9 16.2 24.4



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

3000000

2000000

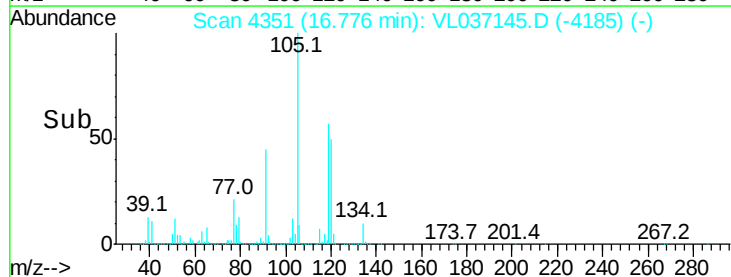
1000000

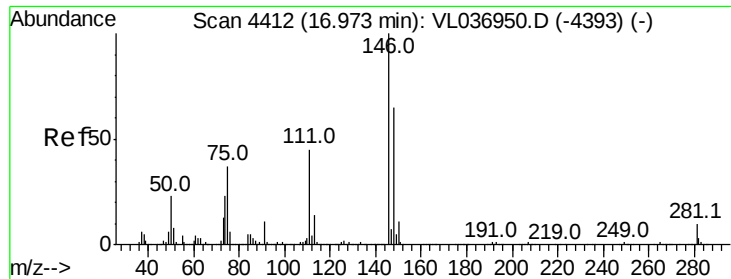
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Time-->

16.70

16.80

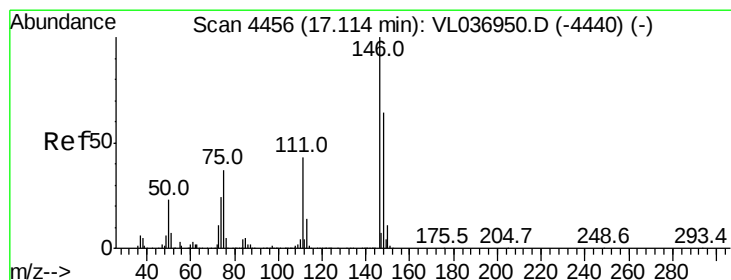
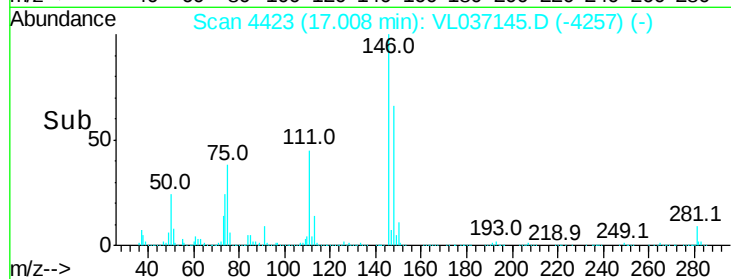
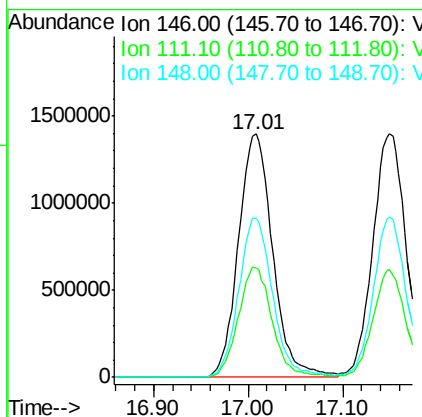
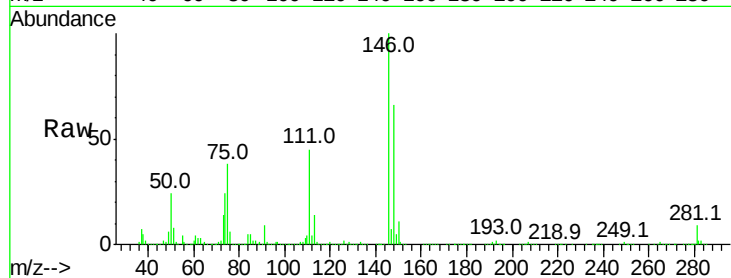




#75  
 1,3-Dichlorobenzene  
 Concen: 8.126 ppbv  
 RT: 17.01 min Scan# 4423  
 Delta R.T. 0.04 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

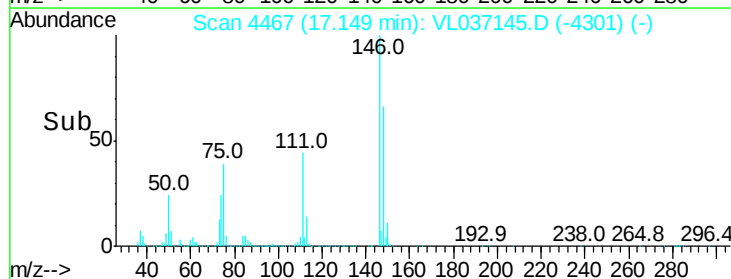
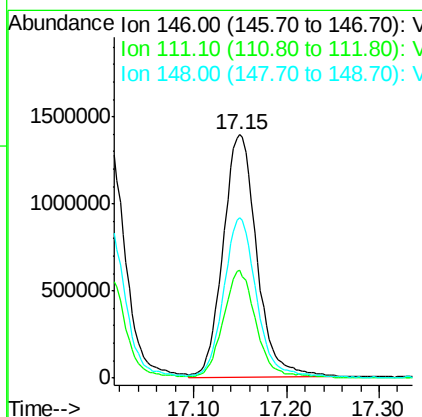
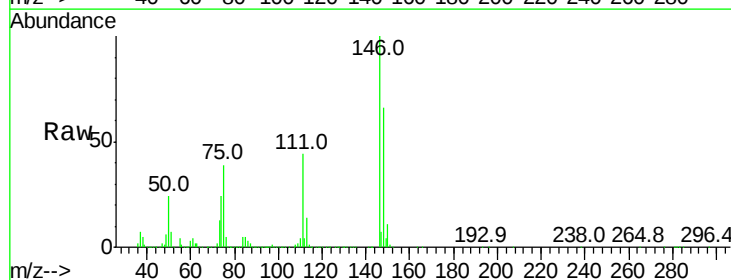
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

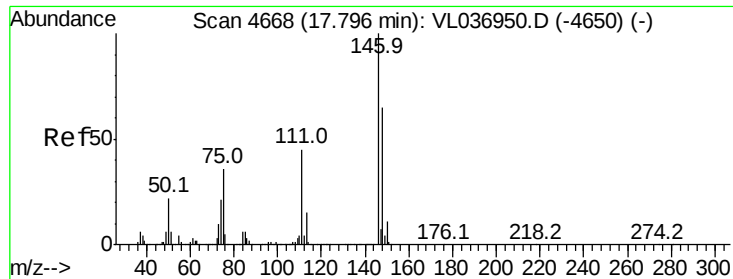
Tgt Ion:146 Resp: 3528800  
 Ion Ratio Lower Upper  
 146 100  
 111 44.8 22.2 66.6  
 148 64.6 32.3 96.8



#76  
 1,4-Dichlorobenzene  
 Concen: 7.959 ppbv  
 RT: 17.15 min Scan# 4467  
 Delta R.T. 0.04 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

Tgt Ion:146 Resp: 3494775  
 Ion Ratio Lower Upper  
 146 100  
 111 43.7 22.6 67.7  
 148 64.7 33.5 100.5





#77

1,2-Dichlorobenzene

Concen: 7.814 ppbv

RT: 17.83 min Scan# 4678

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

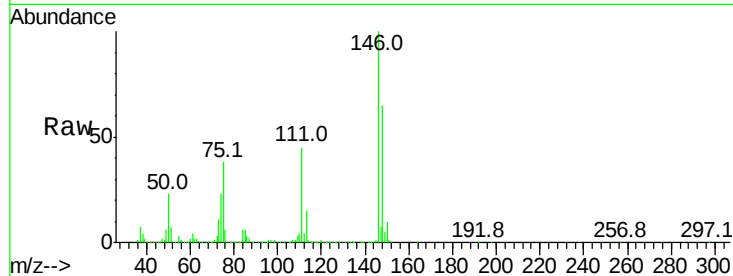
Tgt Ion:146 Resp: 3400358

Ion Ratio Lower Upper

146 100

111 46.2 23.1 69.2

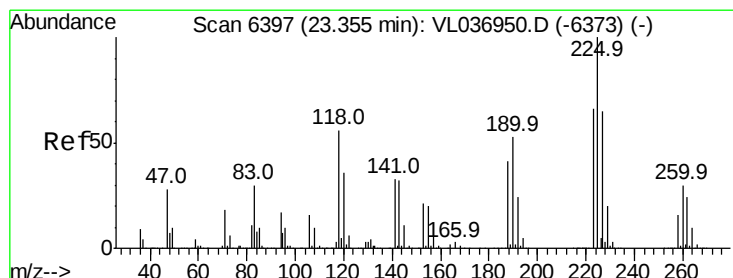
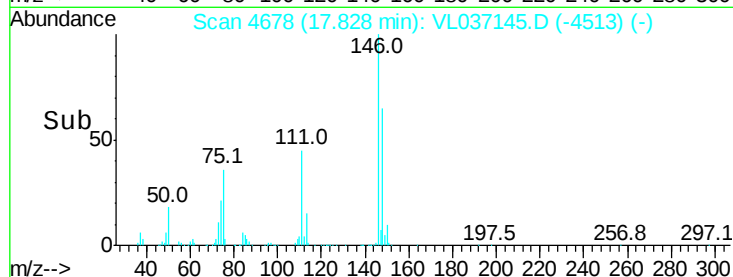
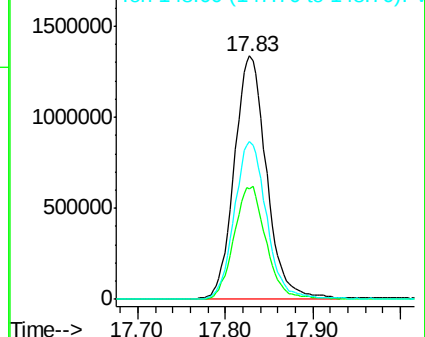
148 65.0 32.5 97.4



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



#78

Hexachloro-1,3-Butadiene

Concen: 6.263 ppbv

RT: 23.39 min Scan# 6407

Delta R.T. 0.03 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

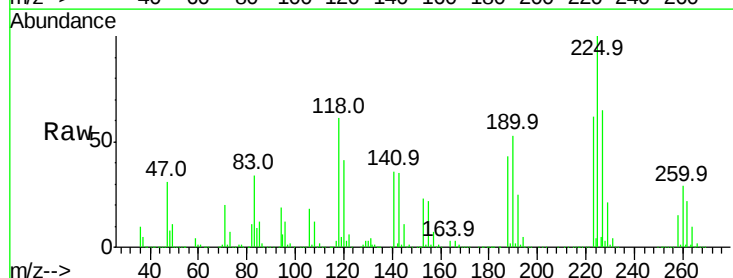
Tgt Ion:225 Resp: 2191323

Ion Ratio Lower Upper

225 100

223 65.2 51.9 77.9

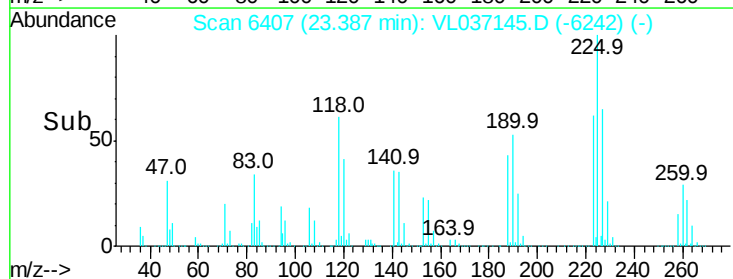
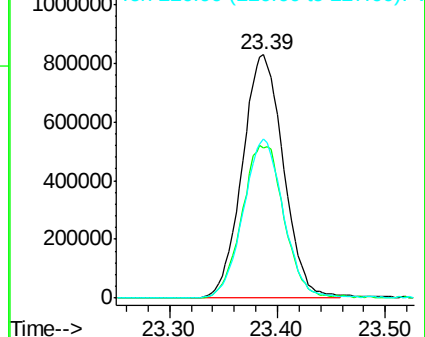
227 64.4 51.8 77.6

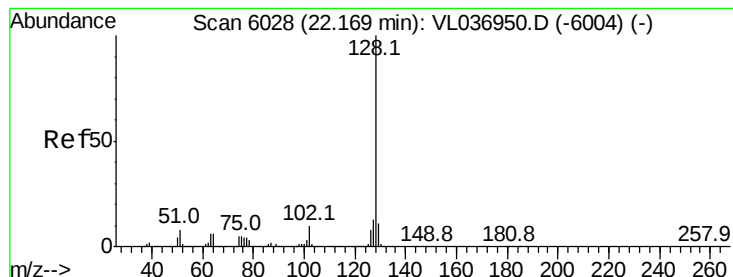


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 7.850 ppbv

RT: 22.21 min Scan# 6041

Delta R.T. 0.04 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

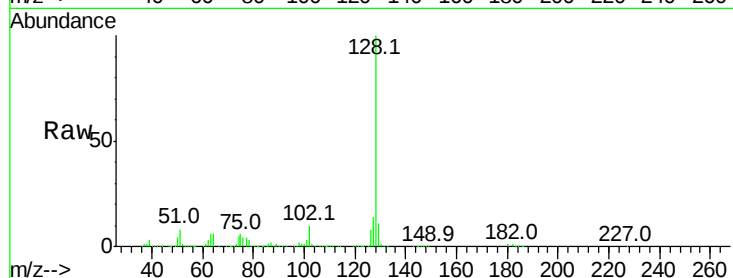
Tgt Ion:128 Resp: 4380274

Ion Ratio Lower Upper

128 100

127 13.6 10.4 15.6

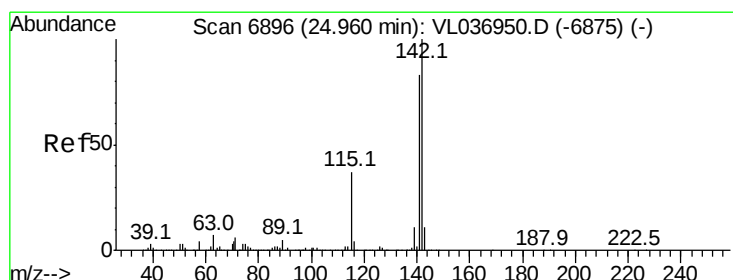
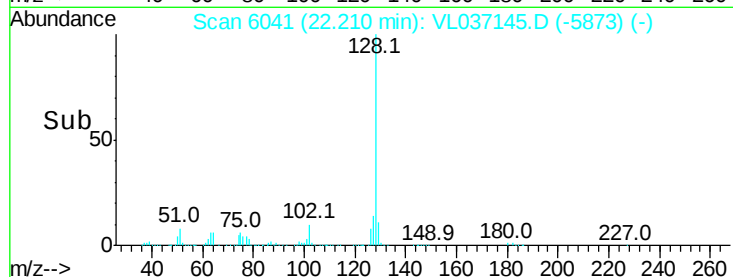
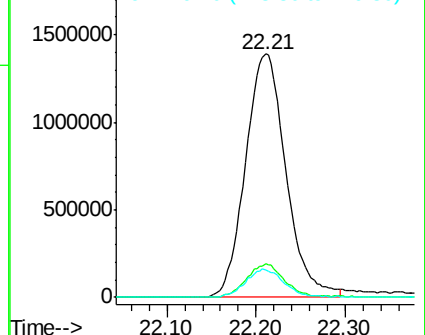
129 11.2 9.0 13.6



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: 11.354 ppbv

RT: 24.98 min Scan# 6902

Delta R.T. 0.02 min

Lab File: VL037145.D

Acq: 14 Jun 2021 11:48

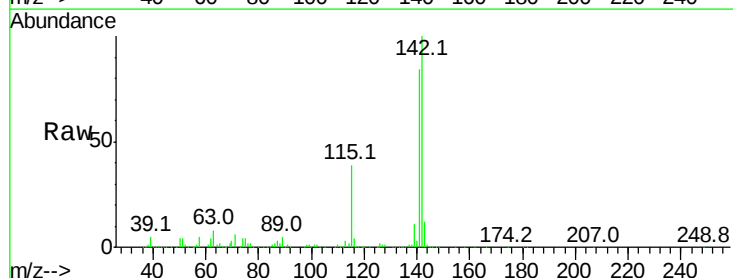
Tgt Ion:142 Resp: 1377685

Ion Ratio Lower Upper

142 100

141 83.4 69.3 103.9

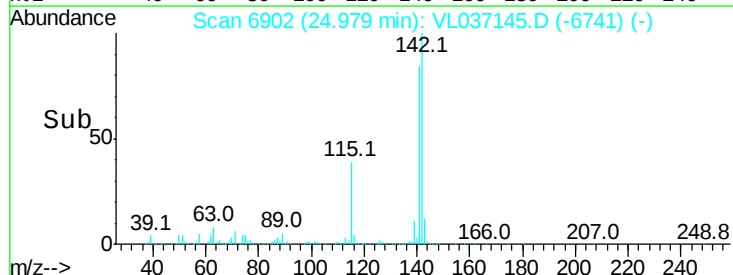
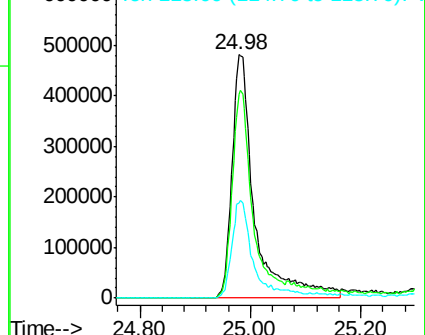
115 40.2 29.1 43.7

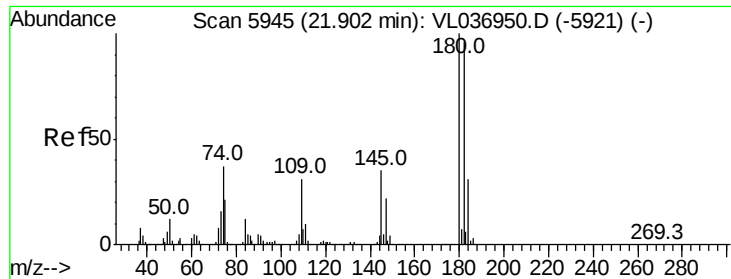


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 7.336 ppbv  
 RT: 21.94 min Scan# 5956  
 Delta R.T. 0.04 min  
 Lab File: VL037145.D  
 Acq: 14 Jun 2021 11:48

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion:180 Resp: 2495419  
 Ion Ratio Lower Upper  
 180 100  
 182 99.7 81.7 122.5  
 184 31.4 24.9 37.3

