

Data File : VL037164.D  
Acq On : 16 Jun 2021 9:10  
Operator : SY/AP  
Sample : VSTDICCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Quant Time: Jun 16 11:29:39 2021  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL061621AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jun 14 16:49:11 2021  
QLast Update : Mon Jun 14 16:49:11 2021  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1577258  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 4661376  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 5404401  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 3386230  | 8.51     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 85.10% |

| Target Compounds               |      |     |         |        | Qvalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.05 | 85  | 2362816 | 9.406  | ppbv 99   |
| 3) Chlorodifluoromethane       | 2.99 | 51  | 2730249 | 9.228  | ppbv 100  |
| 4) Chloromethane               | 3.14 | 50  | 948572  | 9.409  | ppbv 96   |
| 5) Vinyl Chloride              | 3.26 | 62  | 1030379 | 10.564 | ppbv 99   |
| 6) Bromomethane                | 3.47 | 94  | 629231  | 10.142 | ppbv 98   |
| 7) Chloroethane                | 3.56 | 64  | 360750  | 9.479  | ppbv 98   |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85  | 2525968 | 9.412  | ppbv 100  |
| 9) Propene                     | 3.01 | 41  | 888620  | 9.105  | ppbv 99   |
| 10) Heptane                    | 8.13 | 43  | 2244706 | 9.648  | ppbv 100  |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 2665425 | 9.352  | ppbv 98   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101 | 1887878 | 9.655  | ppbv 98   |
| 13) Ethanol                    | 3.62 | 45  | 56867   | 4.217  | ppbv # 23 |
| 14) Bromoethene                | 3.74 | 108 | 816128  | 9.647  | ppbv 100  |
| 15) Acetone                    | 3.86 | 43  | 1307117 | 6.926  | ppbv 99   |
| 16) 1,3-Butadiene              | 3.33 | 39  | 999555  | 9.809  | ppbv 99   |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1673897 | 10.248 | ppbv 100  |
| 18) 1,1-Dichloroethene         | 4.29 | 96  | 846883  | 9.601  | ppbv 96   |
| 19) Isopropyl Alcohol          | 3.97 | 45  | 1003844 | 9.693  | ppbv # 97 |
| 20) Methylene Chloride         | 4.35 | 84  | 675505  | 8.212  | ppbv 94   |
| 21) Allyl Chloride             | 4.42 | 41  | 1248438 | 9.901  | ppbv 99   |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 838939  | 9.762  | ppbv 93   |
| 23) Vinyl Acetate              | 5.08 | 43  | 2392296 | 9.652  | ppbv 98   |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1937149 | 9.739  | ppbv 99   |
| 25) Ethyl Acetate              | 5.68 | 43  | 3517297 | 9.511  | ppbv 99   |
| 26) Hexane                     | 5.69 | 57  | 1688591 | 9.181  | ppbv 99   |
| 27) Carbon Disulfide           | 4.56 | 76  | 1990607 | 10.675 | ppbv 99   |
| 28) Methyl tert-Butyl Ether    | 5.04 | 73  | 2229328 | 9.678  | ppbv 99   |
| 29) Chloroform                 | 5.76 | 83  | 2737611 | 9.221  | ppbv 98   |
| 30) Cyclohexane                | 7.14 | 84  | 1481870 | 9.242  | ppbv 96   |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1677392 | 9.464  | ppbv 98   |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97  | 2871211 | 10.532 | ppbv 100  |
| 34) 2-Butanone                 | 5.25 | 43  | 1613943 | 9.219  | ppbv 99   |
| 35) Carbon Tetrachloride       | 7.02 | 117 | 3078026 | 10.742 | ppbv 99   |
| 36) Benzene                    | 6.90 | 78  | 3557779 | 9.619  | ppbv 99   |
| 37) 1,2-Dichloroethane         | 6.31 | 62  | 2077535 | 9.673  | ppbv 100  |
| 38) Trichloroethene            | 7.84 | 130 | 1502390 | 9.400  | ppbv 98   |
| 39) 1,2-Dichloropropane        | 7.62 | 63  | 1369891 | 9.700  | ppbv 98   |
| 40) 1,4-Dioxane                | 7.84 | 88  | 379523  | 9.598  | ppbv 95   |
| 41) Tetrahydrofuran            | 6.06 | 42  | 814098  | 9.555  | ppbv 99   |
| 42) Bromodichloromethane       | 7.80 | 83  | 3012682 | 10.181 | ppbv 99   |
| 43) Methyl Methacrylate        | 8.02 | 69  | 1310734 | 10.329 | ppbv 98   |

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jun 14 16:49:11 2021  
QLast Update : Mon Jun 14 16:49:11 2021  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 5826125  | 9.411  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 1355392  | 11.853 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.71  | 75   | 1707894  | 11.194 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 9.48  | 97   | 1502585  | 9.381  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.31 | 129  | 2680891  | 10.375 | ppbv   | 99       |
| 49) Bromoform                 | 13.05 | 173  | 2129835  | 10.551 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.75  | 43   | 2469242  | 9.588  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.15 | 43   | 1232059  | 9.585  | ppbv # | 97       |
| 52) Tetrachloroethene         | 11.23 | 164  | 1478694  | 9.666  | ppbv   | 96       |
| 53) Toluene                   | 9.82  | 91   | 4249855  | 9.666  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.62 | 107  | 2234605  | 9.528  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.14 | 131  | 1814157  | 7.697  | ppbv   | 98       |
| 57) Chlorobenzene             | 12.16 | 112  | 3203813  | 7.398  | ppbv   | 98       |
| 58) Ethyl Benzene             | 12.72 | 91   | 5602483  | 7.653  | ppbv   | 99       |
| 59) m/p-Xylene                | 13.00 | 91   | 5622450  | 9.038  | ppbv # | 53       |
| 60) o-Xylene                  | 13.70 | 91   | 4420010  | 7.400  | ppbv   | 100      |
| 61) Styrene                   | 13.54 | 104  | 2590496  | 8.226  | ppbv   | 98       |
| 62) Isopropylbenzene          | 14.68 | 105  | 6155073  | 7.230  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 2868744  | 7.387  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.57 | 120  | 1660748  | 7.649  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.75 | 119  | 5482923  | 7.106  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.00 | 91   | 236018   | 7.008  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 17.30 | 105  | 7288806  | 7.110  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.66 | 119  | 6322967  | 7.378  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.56 | 91   | 5946618  | 7.584  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 4438348  | 7.308  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.85 | 105  | 5224456  | 7.529  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.01 | 105  | 4753633  | 7.223  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.77 | 105  | 4972523  | 7.426  | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 3028936  | 7.346  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.15 | 146  | 2885468  | 7.046  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 2857393  | 7.028  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 2169101  | 7.526  | ppbv   | 100      |
| 79) Naphthalene               | 22.21 | 128  | 4615484  | 11.451 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 24.98 | 142  | 1410446  | 14.464 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 21.94 | 180  | 2503569  | 9.765  | ppbv   | 99       |

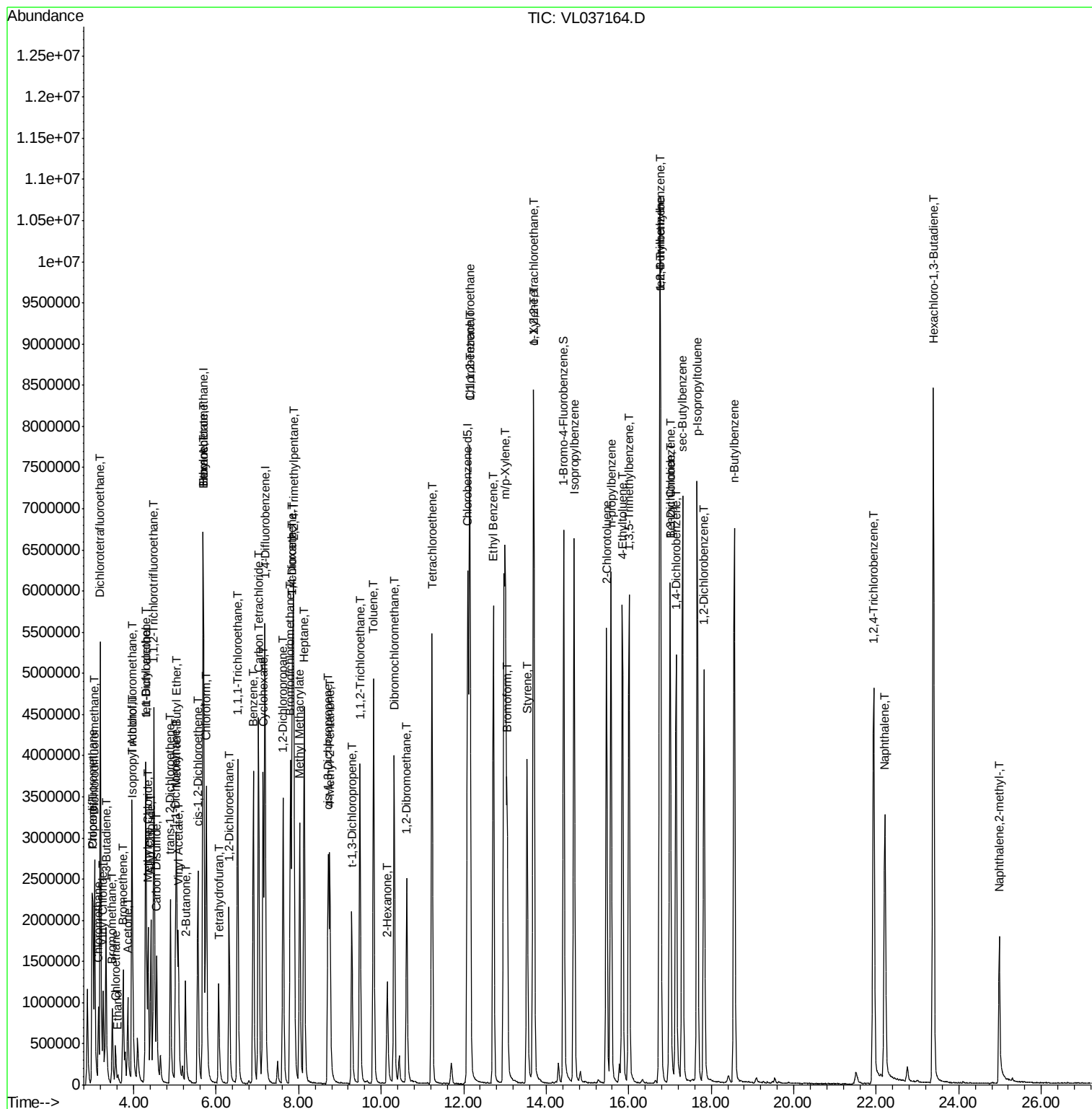
(#) = qualifier out of range (m) = manual integration (+) = signals summed

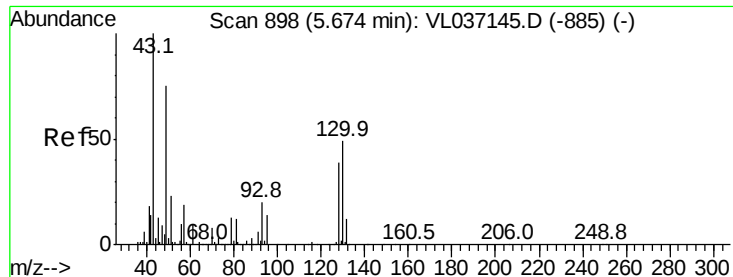
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ALS Vial      : 1      Sample Multiplier: 1

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL037164.D

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Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

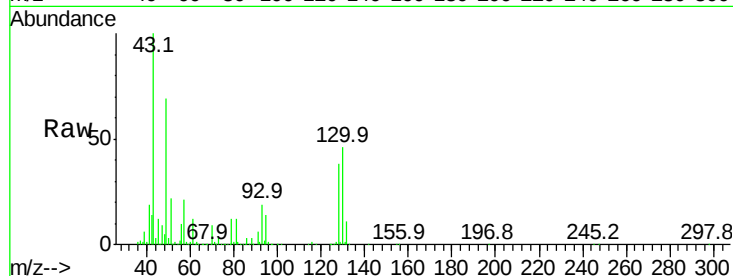
Tgt Ion: 49 Resp: 1577258

Ion Ratio Lower Upper

49 100

128 58.7 28.8 86.5

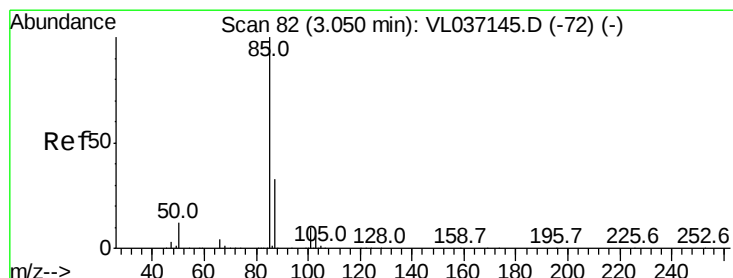
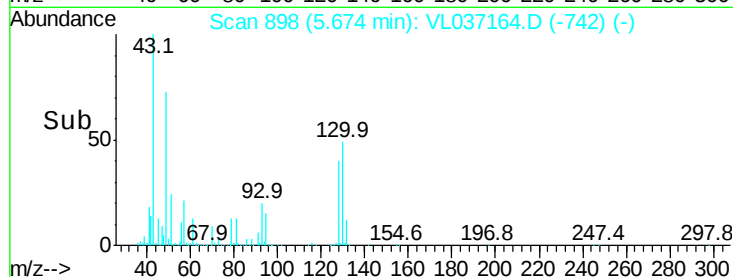
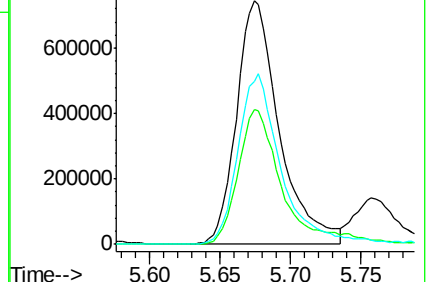
130 71.9 36.0 108.0



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: 9.406 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037164.D

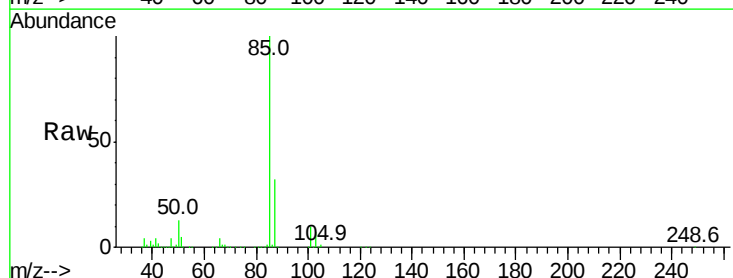
Acq: 16 Jun 2021 9:10

Tgt Ion: 85 Resp: 2362816

Ion Ratio Lower Upper

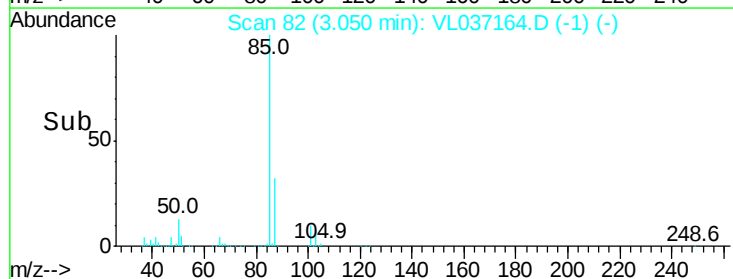
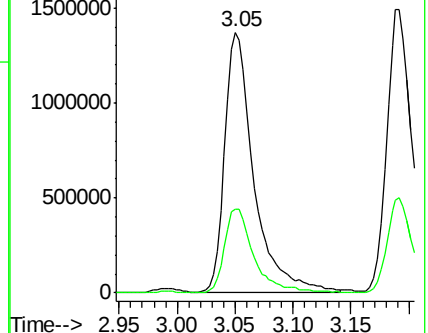
85 100

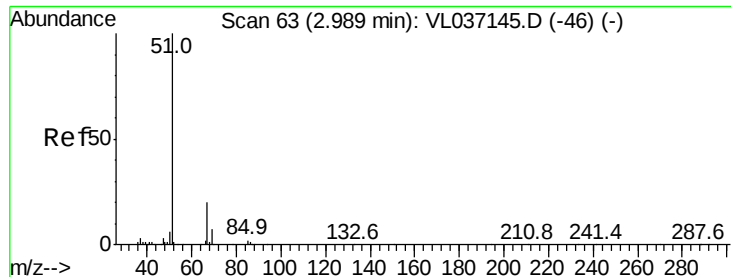
87 32.2 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.228 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

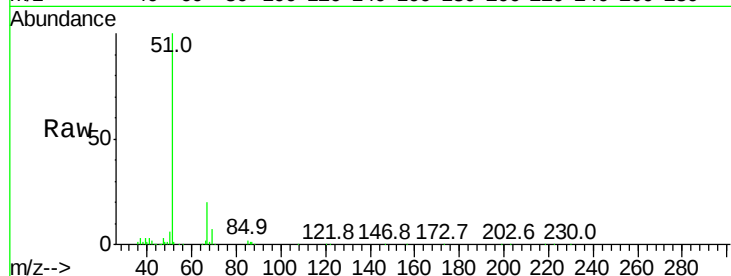
VSTDICCC010

Tgt Ion: 51 Resp: 2730249

Ion Ratio Lower Upper

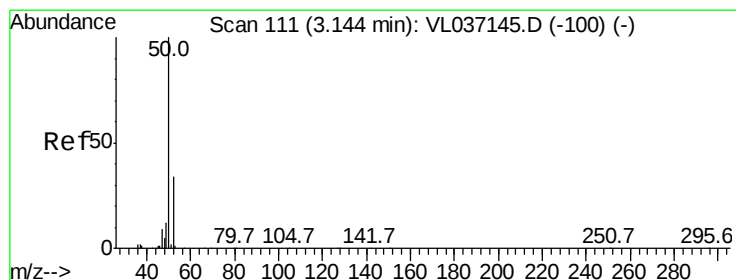
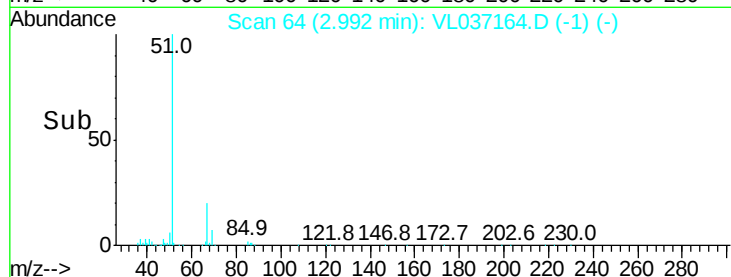
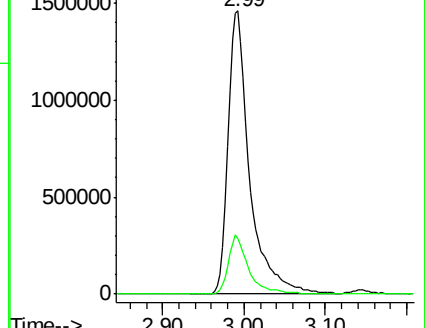
51 100

67 19.7 15.9 23.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.409 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037164.D

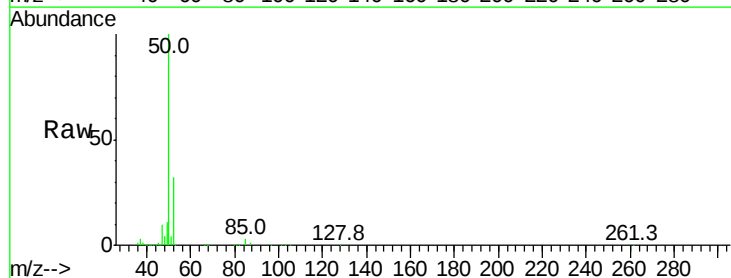
Acq: 16 Jun 2021 9:10

Tgt Ion: 50 Resp: 948572

Ion Ratio Lower Upper

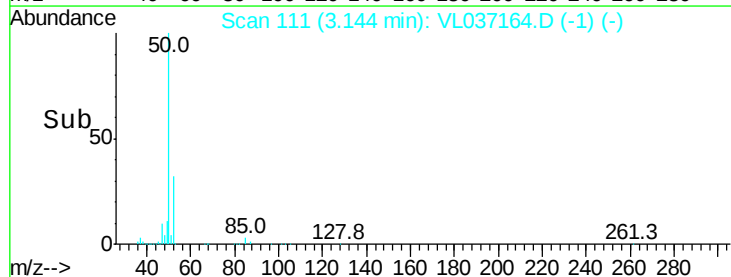
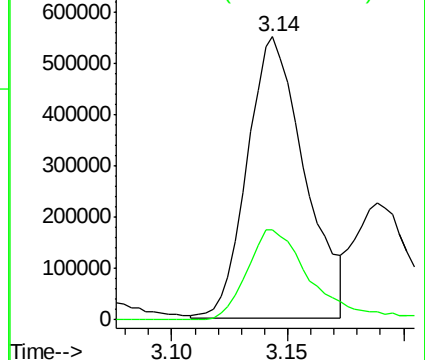
50 100

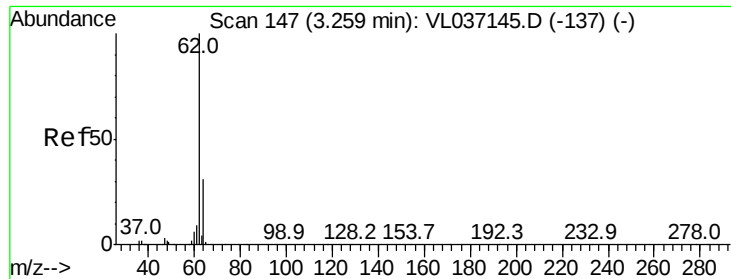
52 32.3 27.4 41.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.564 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

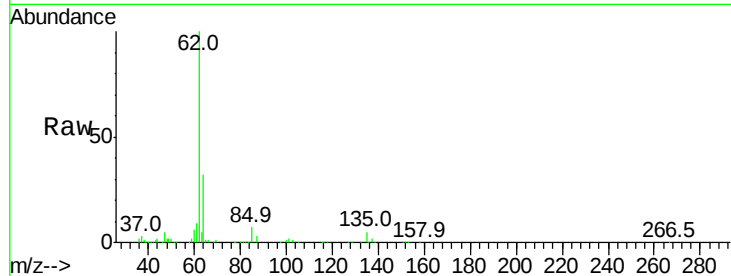
VSTDICCC010

Tgt Ion: 62 Resp: 1030379

Ion Ratio Lower Upper

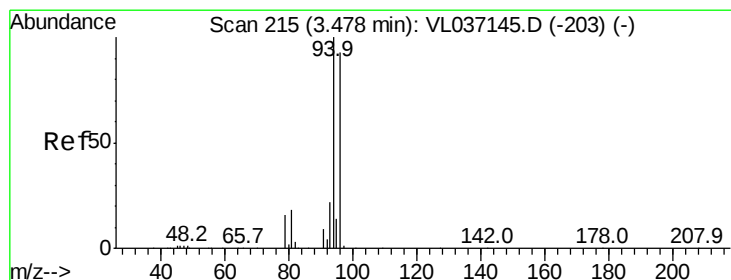
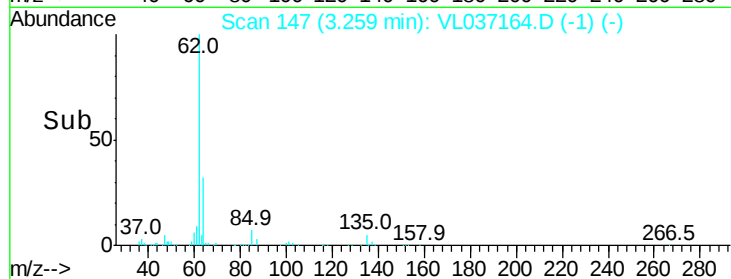
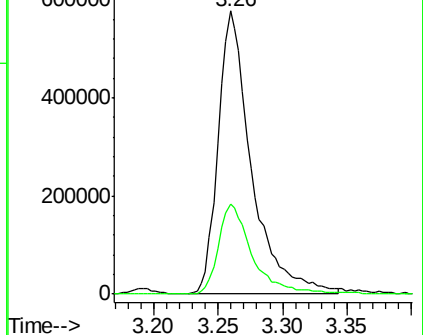
62 100

64 32.0 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.142 ppbv

RT: 3.47 min Scan# 214

Delta R.T. -0.00 min

Lab File: VL037164.D

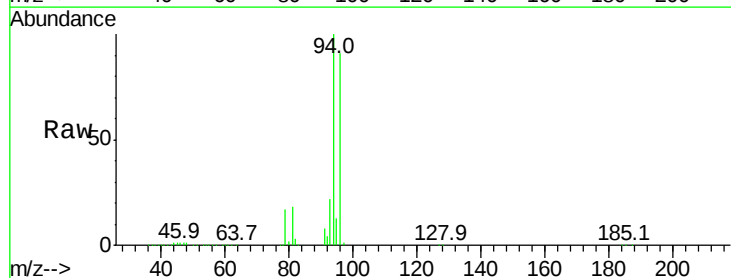
Acq: 16 Jun 2021 9:10

Tgt Ion: 94 Resp: 629231

Ion Ratio Lower Upper

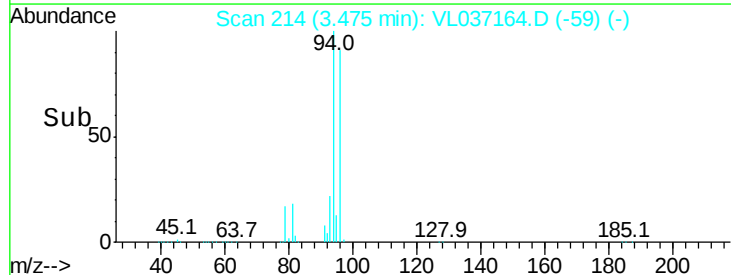
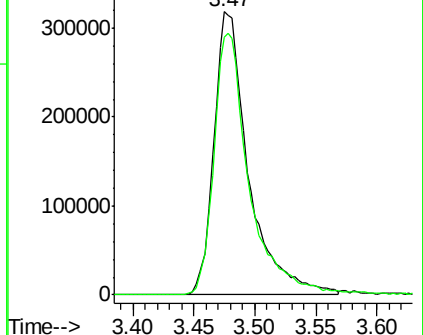
94 100

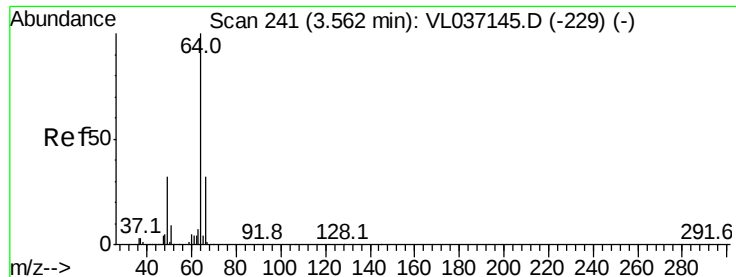
96 90.7 74.2 111.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.479 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

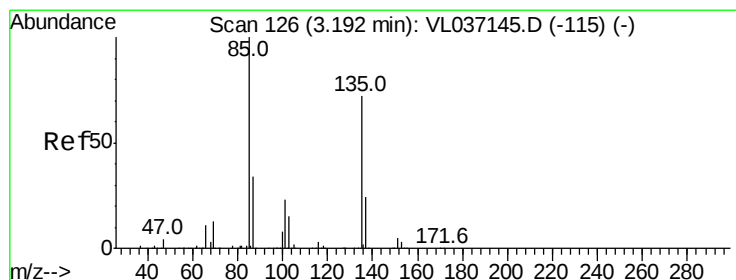
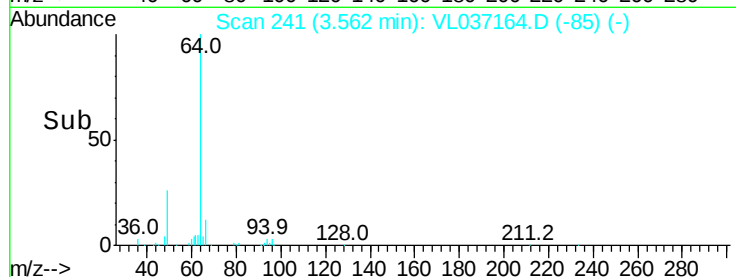
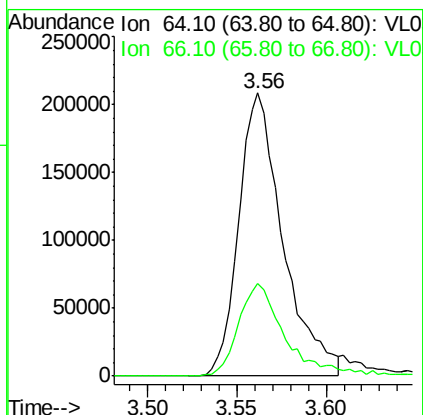
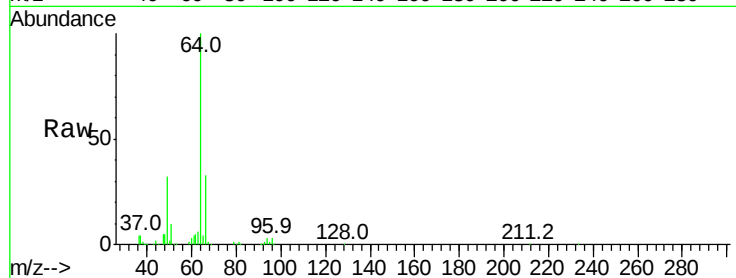
VSTDICCC010

Tgt Ion: 64 Resp: 360750

Ion Ratio Lower Upper

64 100

66 32.8 25.3 37.9



#8

Dichlorotetrafluoroethane

Concen: 9.412 ppbv

RT: 3.19 min Scan# 125

Delta R.T. -0.00 min

Lab File: VL037164.D

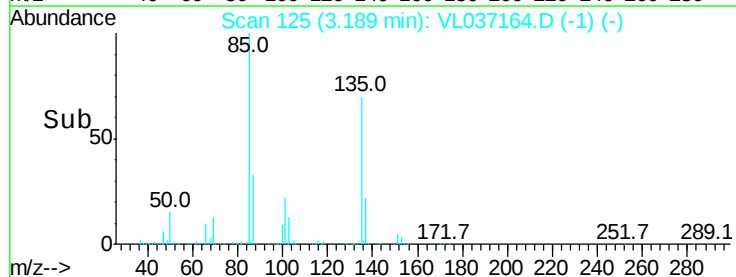
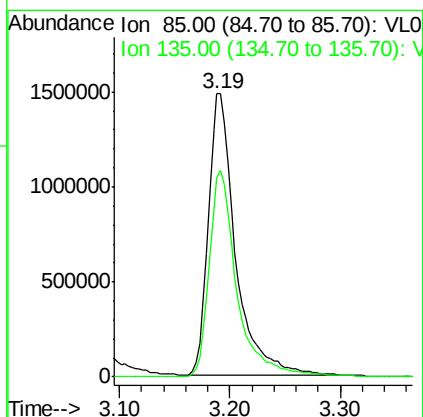
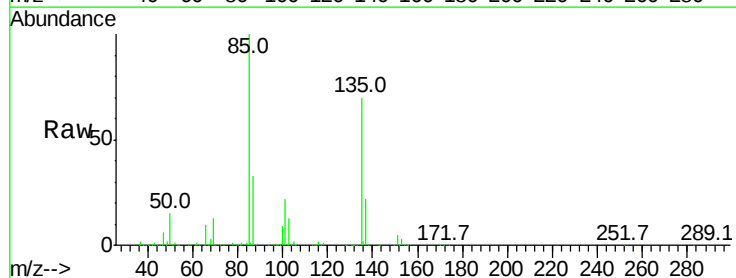
Acq: 16 Jun 2021 9:10

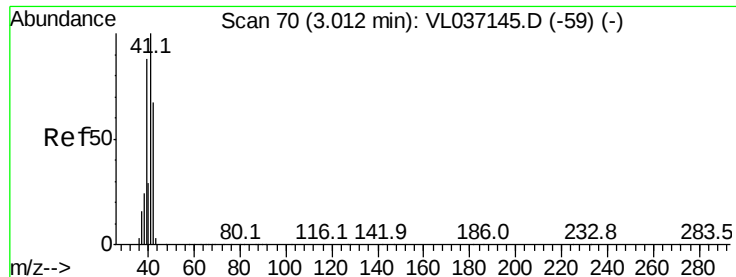
Tgt Ion: 85 Resp: 2525968

Ion Ratio Lower Upper

85 100

135 75.5 60.3 90.5





#9

Propene

Concen: 9.105 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

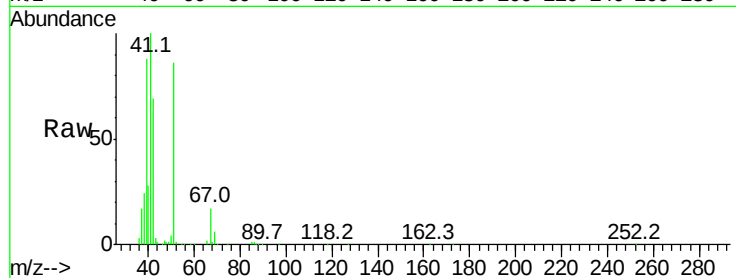
VSTDICCC010

Tgt Ion: 41 Resp: 888620

Ion Ratio Lower Upper

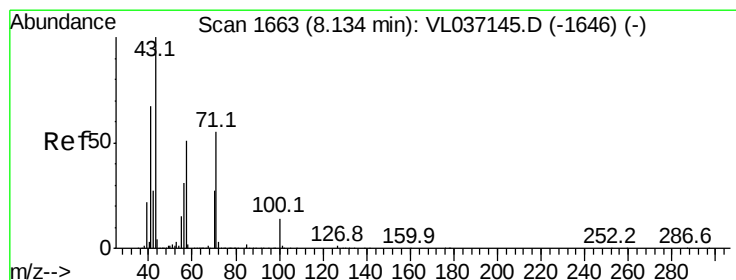
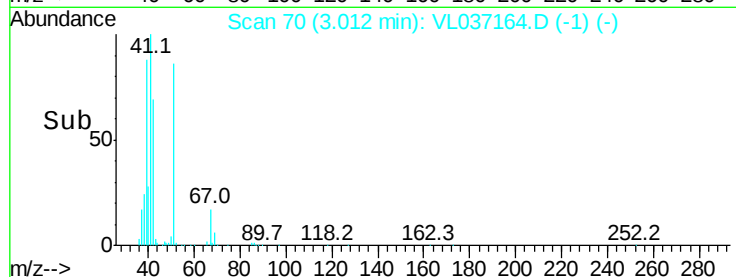
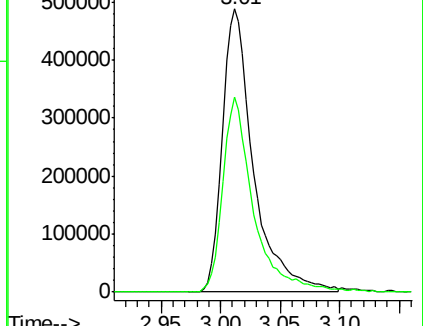
41 100

42 68.1 53.8 80.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.648 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.00 min

Lab File: VL037164.D

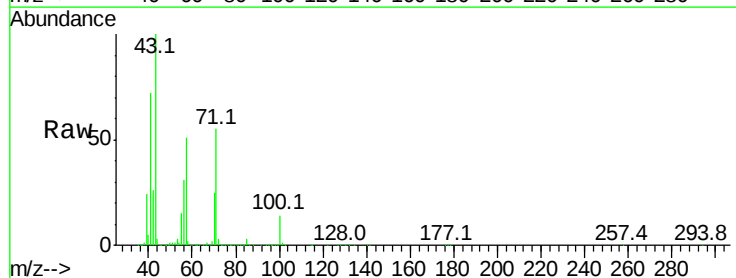
Acq: 16 Jun 2021 9:10

Tgt Ion: 43 Resp: 2244706

Ion Ratio Lower Upper

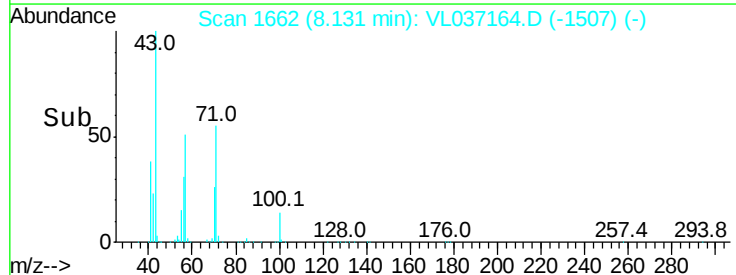
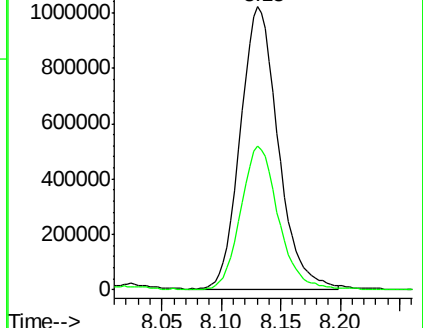
43 100

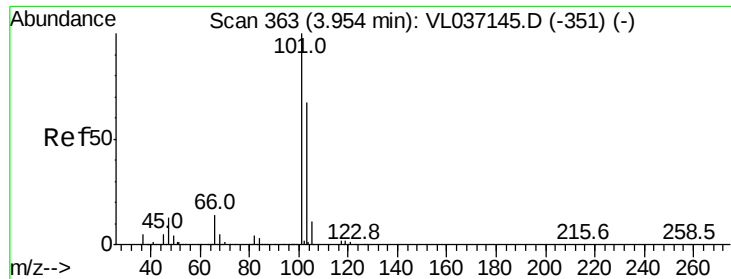
57 50.8 40.5 60.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

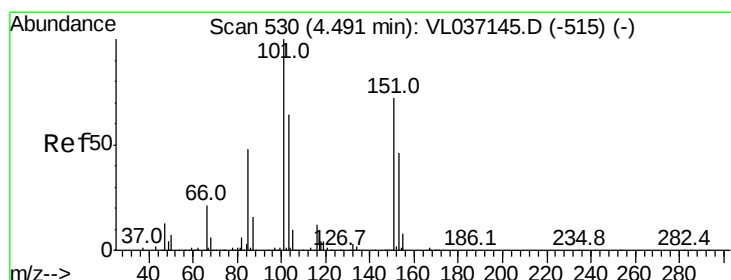
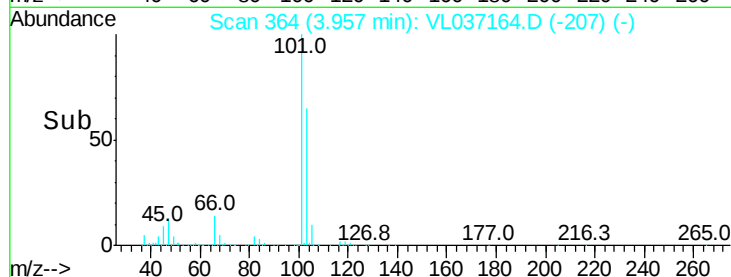
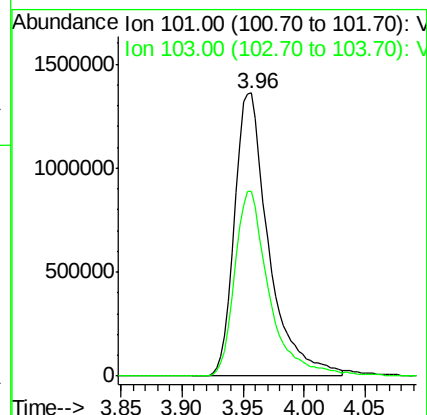
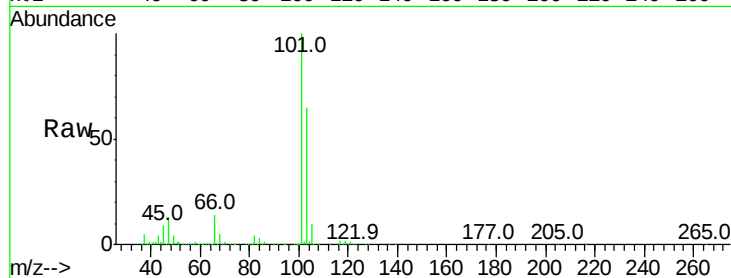




#11  
 Trichlorofluoromethane  
 Concen: 9.352 ppbv  
 RT: 3.96 min Scan# 364  
 Delta R.T. 0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

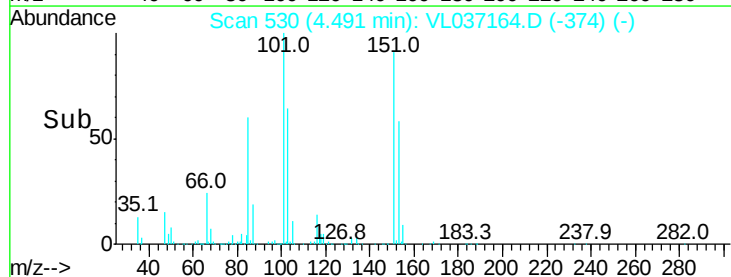
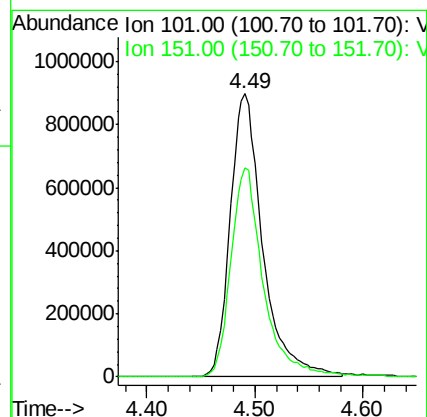
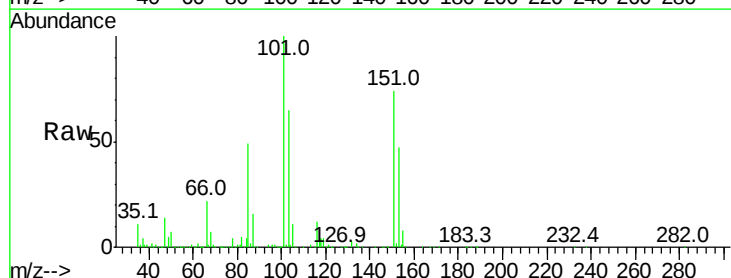
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

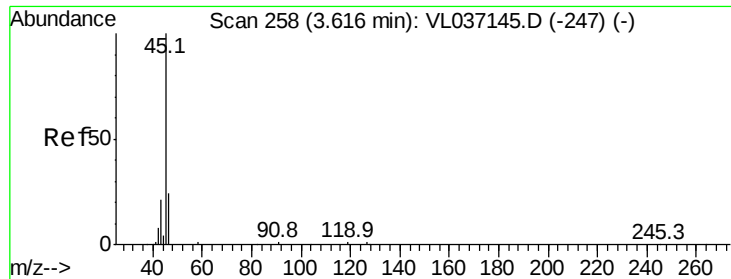
Tgt Ion:101 Resp: 2665425  
 Ion Ratio Lower Upper  
 101 100  
 103 65.3 53.6 80.4



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.655 ppbv  
 RT: 4.49 min Scan# 530  
 Delta R.T. 0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

Tgt Ion:101 Resp: 1887878  
 Ion Ratio Lower Upper  
 101 100  
 151 73.9 60.5 90.7





#13

Ethanol

Concen: 4.217 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

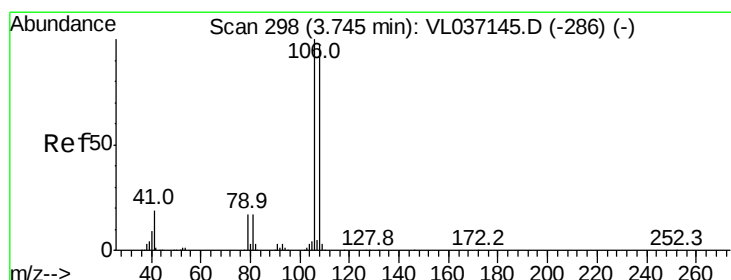
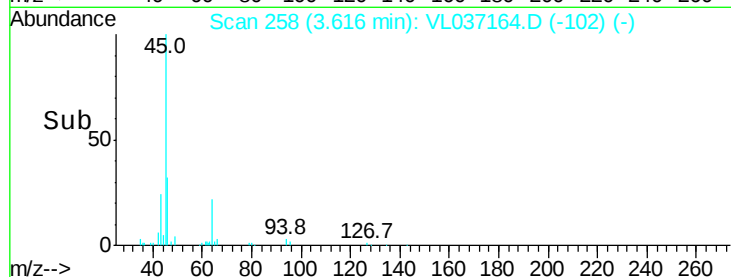
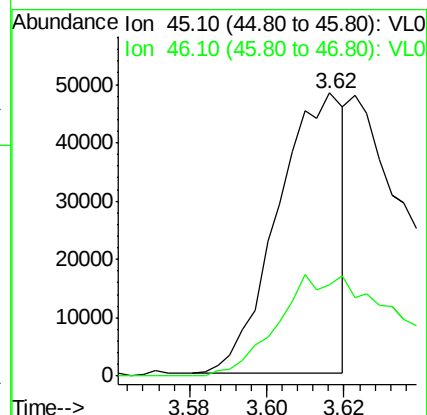
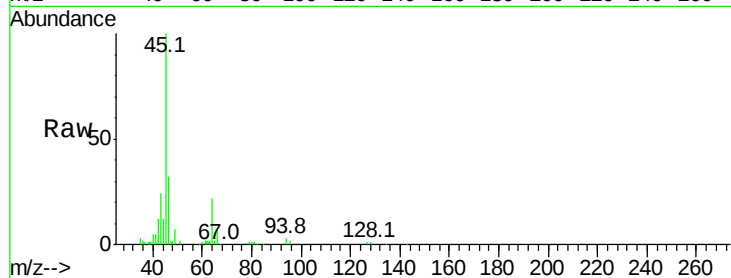
VSTDICCC010

Tgt Ion: 45 Resp: 56867

Ion Ratio Lower Upper

45 100

46 85.6 15.4 61.8#



#14

Bromoethene

Concen: 9.647 ppbv

RT: 3.74 min Scan# 298

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

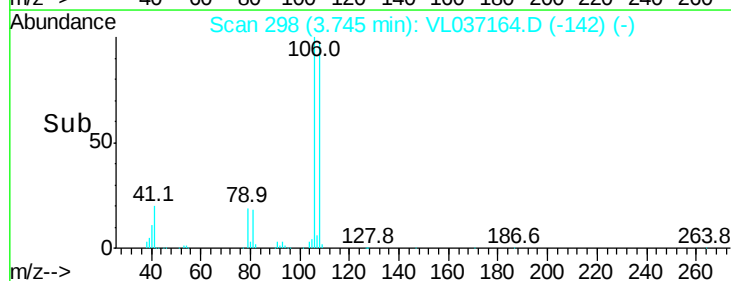
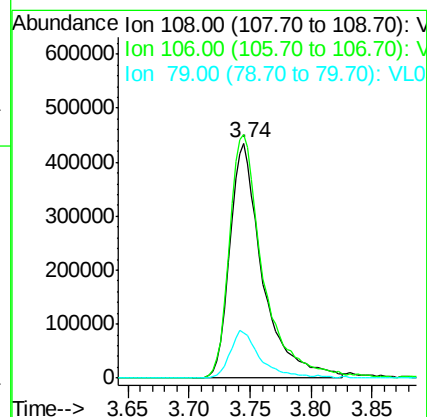
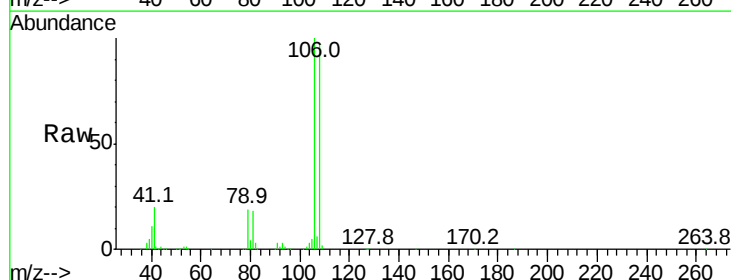
Tgt Ion: 108 Resp: 816128

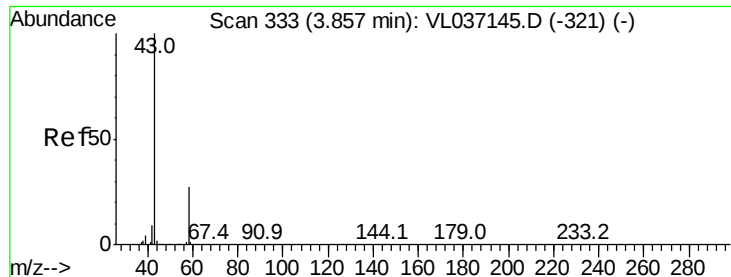
Ion Ratio Lower Upper

108 100

106 108.5 86.5 129.7

79 19.5 15.4 23.2





#15

Acetone

Concen: 6.926 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

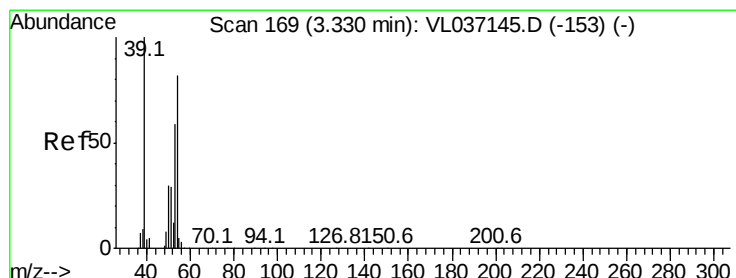
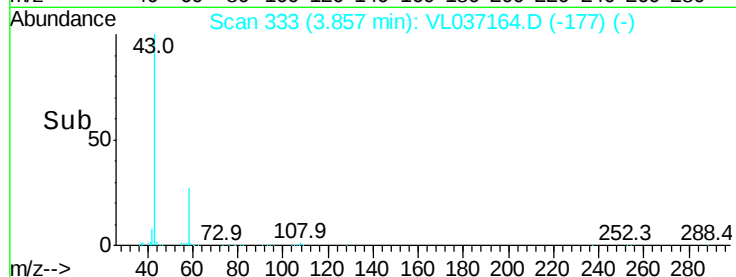
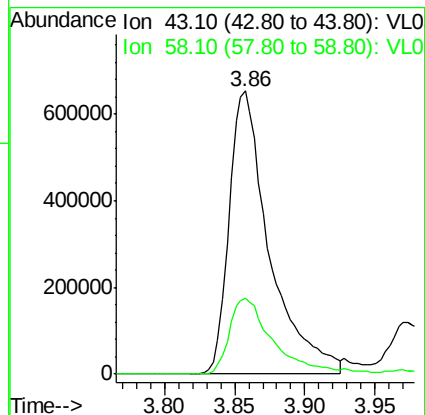
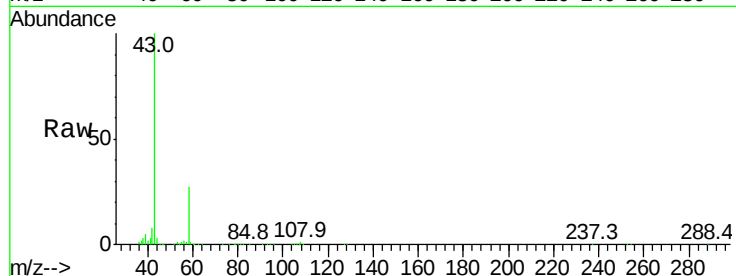
VSTDICCC010

Tgt Ion: 43 Resp: 1307117

Ion Ratio Lower Upper

43 100

58 29.6 23.0 34.6



#16

1,3-Butadiene

Concen: 9.809 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL037164.D

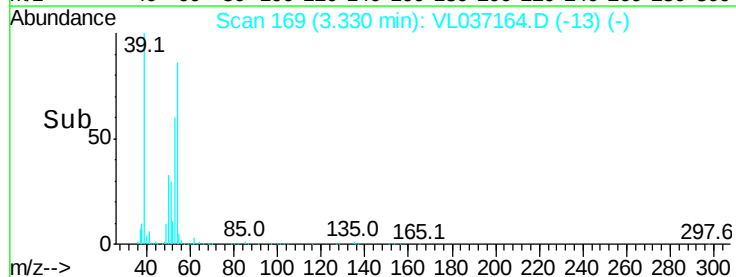
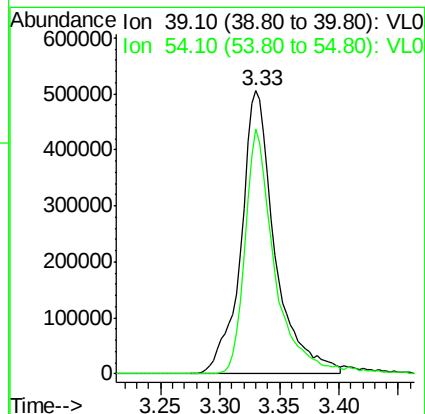
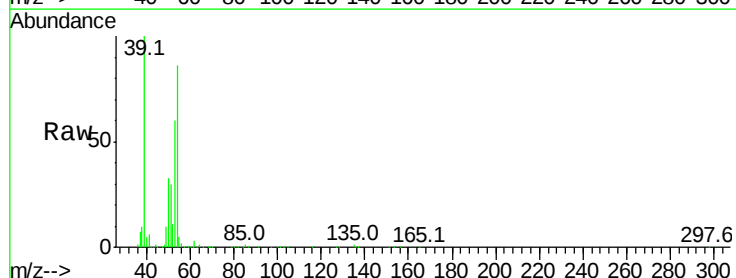
Acq: 16 Jun 2021 9:10

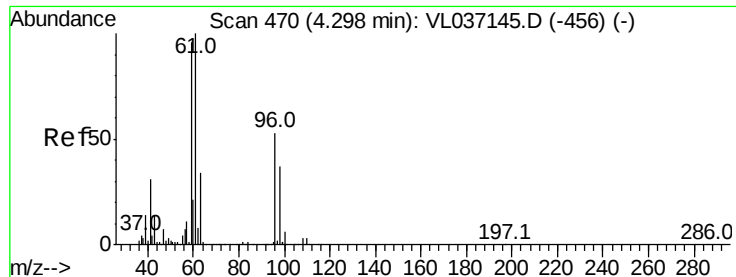
Tgt Ion: 39 Resp: 999555

Ion Ratio Lower Upper

39 100

54 76.5 61.8 92.6





#17

tert-Butyl alcohol

Concen: 10.248 ppbv

RT: 4.29 min Scan# 469

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

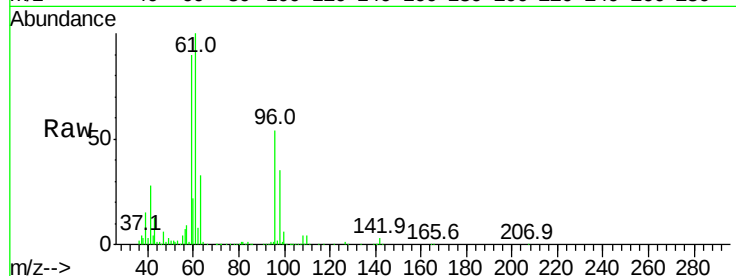
VSTDICCC010

Tgt Ion: 59 Resp: 1673897

Ion Ratio Lower Upper

59 100

57 11.0 8.8 13.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

800000

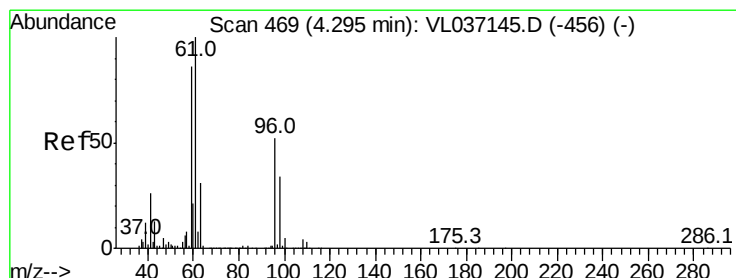
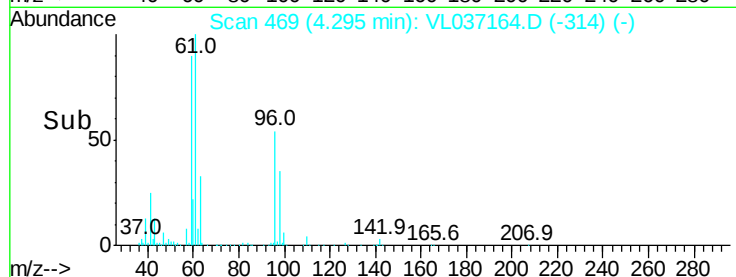
600000

400000

200000

0

Time--> 4.20 4.25 4.30 4.35 4.40



#18

1,1-Dichloroethene

Concen: 9.601 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

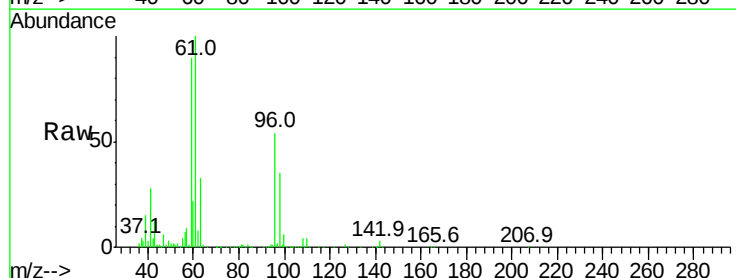
Tgt Ion: 96 Resp: 846883

Ion Ratio Lower Upper

96 100

61 185.7 154.0 231.0

98 64.9 52.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

4.29

1000000

800000

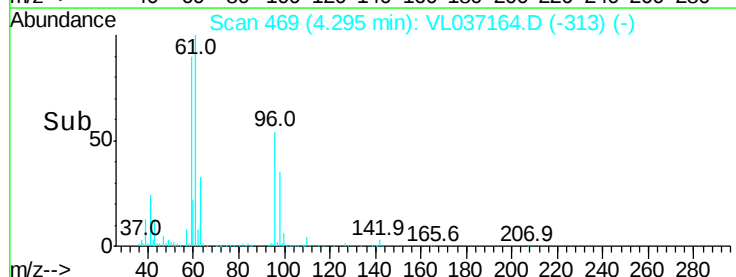
600000

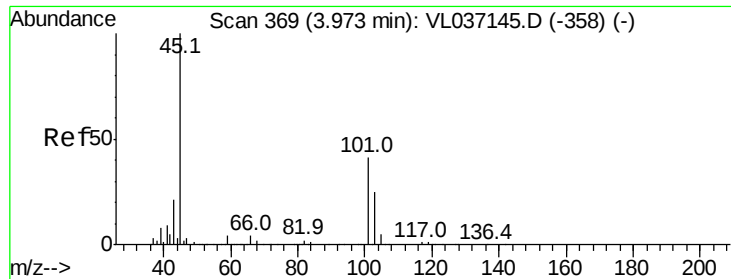
400000

200000

0

Time--> 4.20 4.25 4.30 4.35

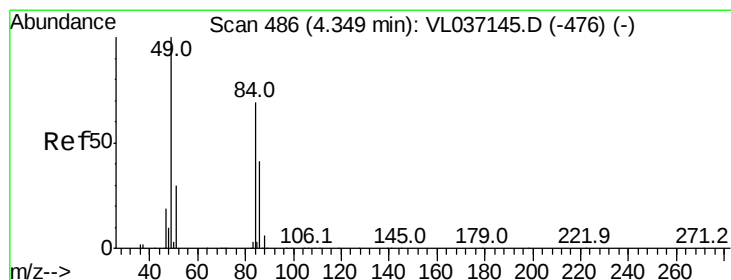
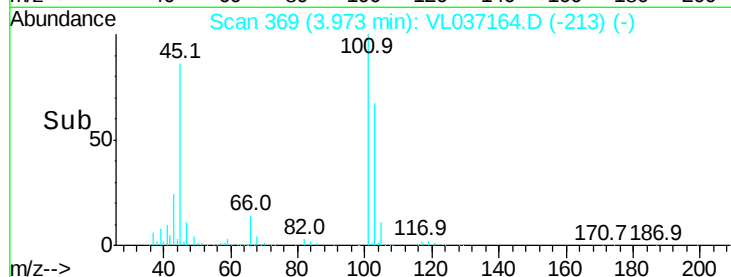
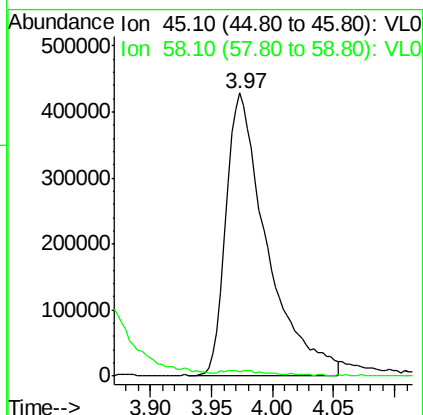
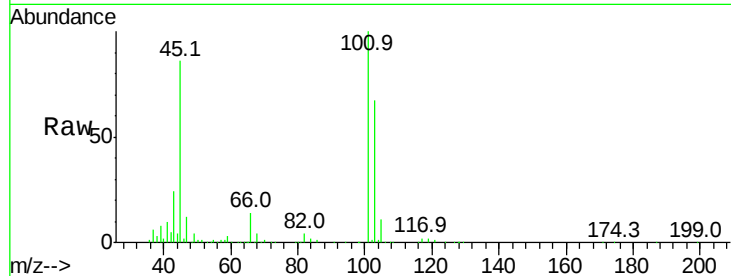




#19  
Isopropyl Alcohol  
Concen: 9.693 ppbv  
RT: 3.97 min Scan# 369  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

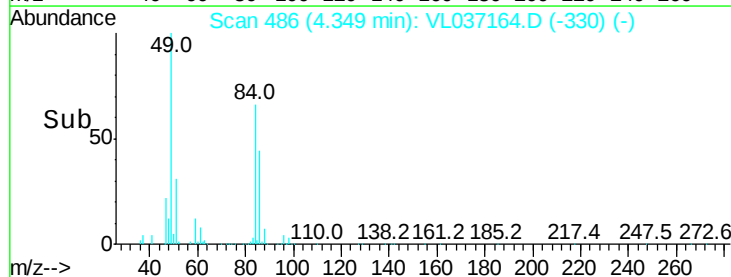
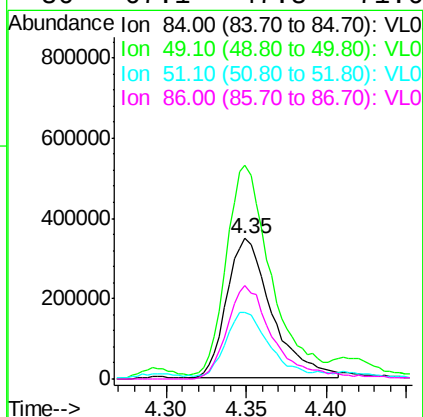
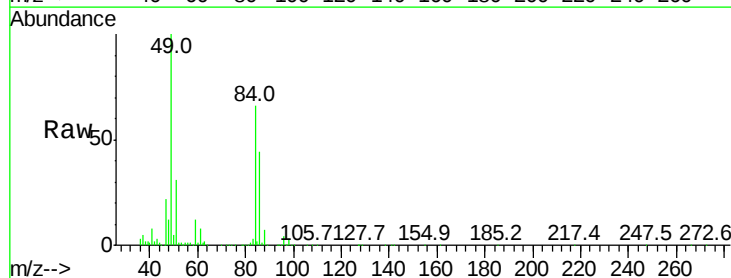
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

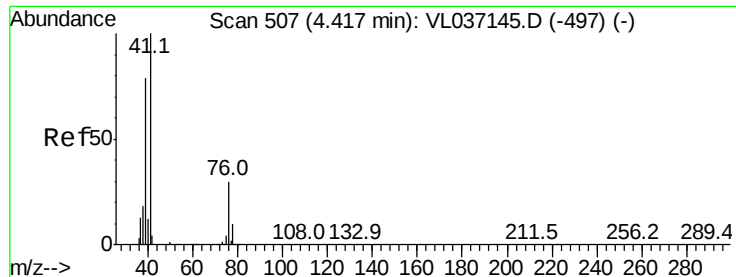
Tgt Ion: 45 Resp: 1003844  
Ion Ratio Lower Upper  
45 100  
58 3.0 1.4 2.2#



#20  
Methylene Chloride  
Concen: 8.212 ppbv  
RT: 4.35 min Scan# 486  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Tgt Ion: 84 Resp: 675505  
Ion Ratio Lower Upper  
84 100  
49 149.6 115.3 172.9  
51 45.1 34.2 51.4  
86 67.1 47.8 71.6





#21

Allyl Chloride

Concen: 9.901 ppbv

RT: 4.42 min Scan# 507

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

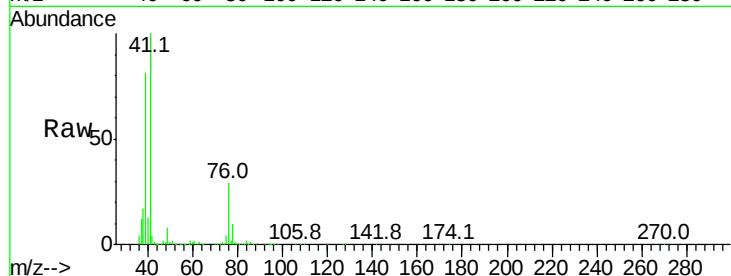
Tgt Ion: 41 Resp: 1248438

Ion Ratio Lower Upper

41 100

76 30.8 25.2 37.8

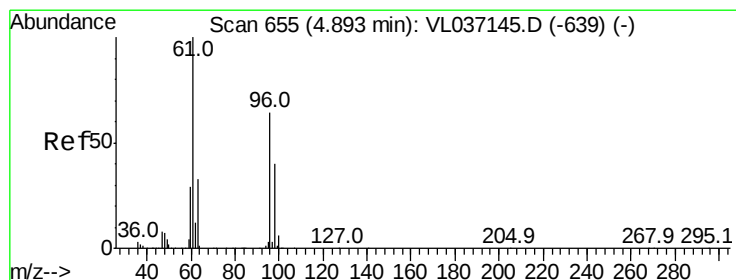
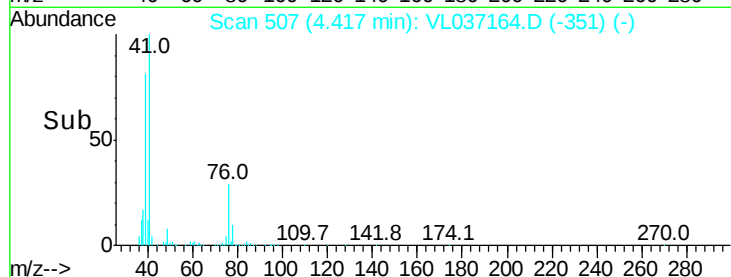
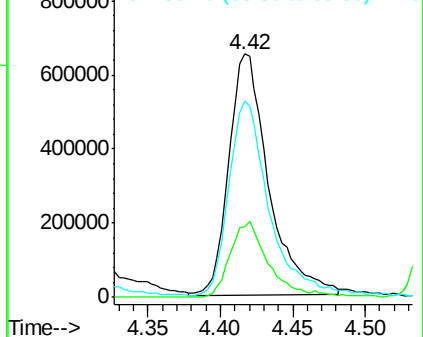
39 81.7 66.2 99.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.762 ppbv

RT: 4.89 min Scan# 654

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

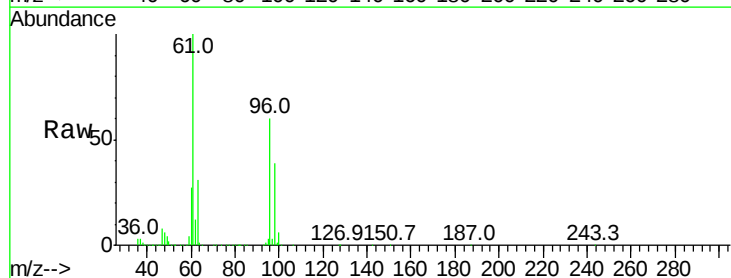
Tgt Ion: 96 Resp: 838939

Ion Ratio Lower Upper

96 100

61 167.4 125.3 187.9

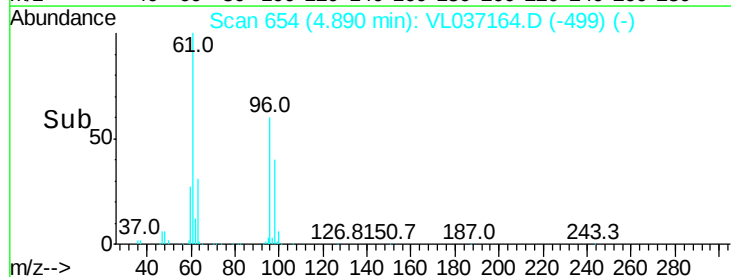
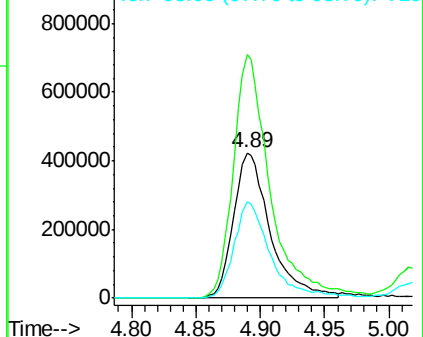
98 66.1 50.3 75.5

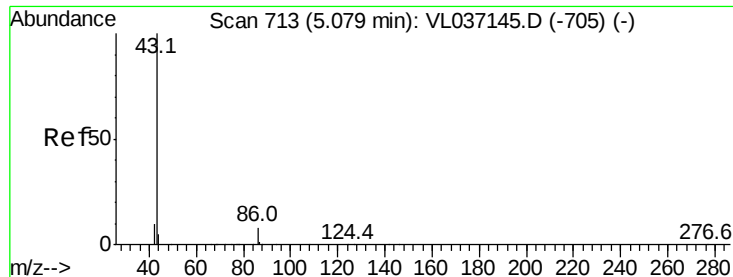


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 9.652 ppbv

RT: 5.08 min Scan# 713

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 2392296

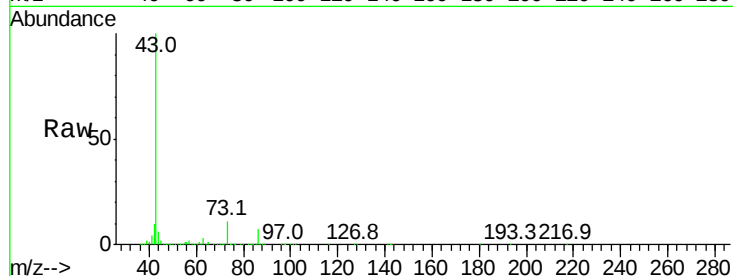
Ion Ratio Lower Upper

43 100

86 7.3 5.4 8.2

42 10.2 8.6 12.8

44 5.3 3.8 5.6

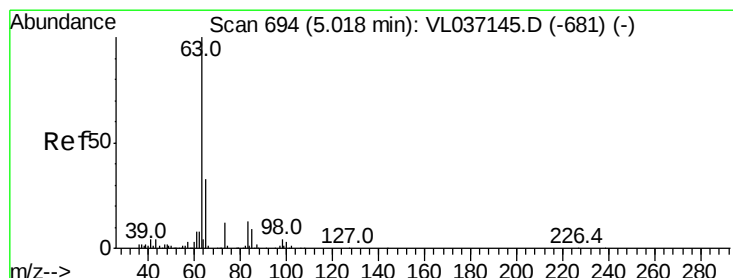
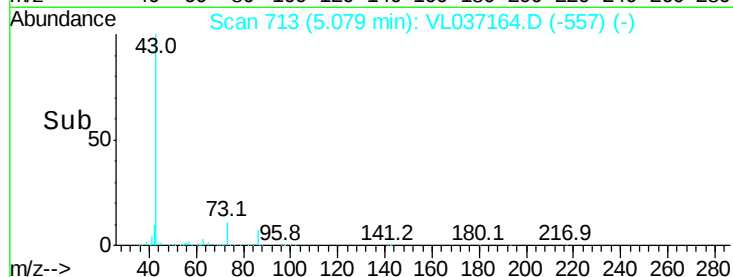
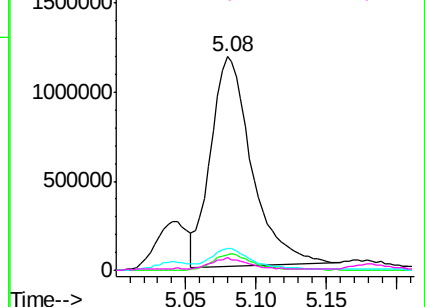


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.739 ppbv

RT: 5.01 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

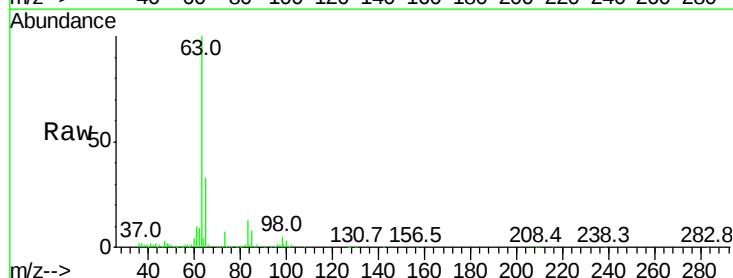
Tgt Ion: 63 Resp: 1937149

Ion Ratio Lower Upper

63 100

98 4.3 2.4 7.1

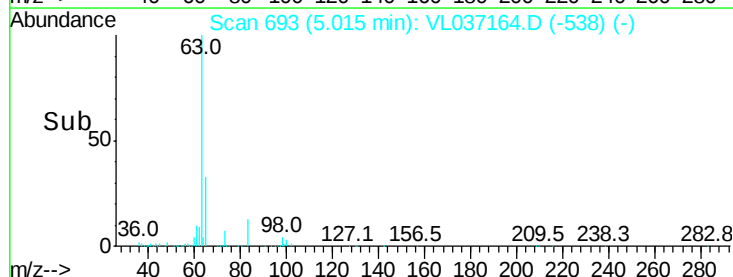
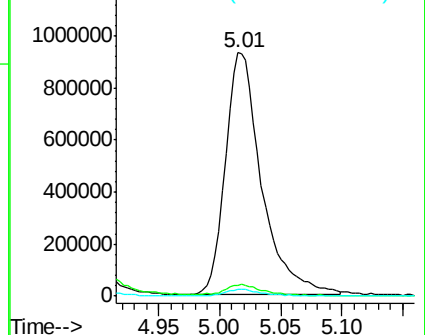
100 2.7 1.6 4.8

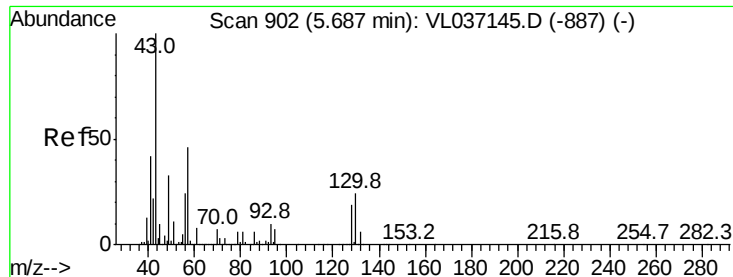


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



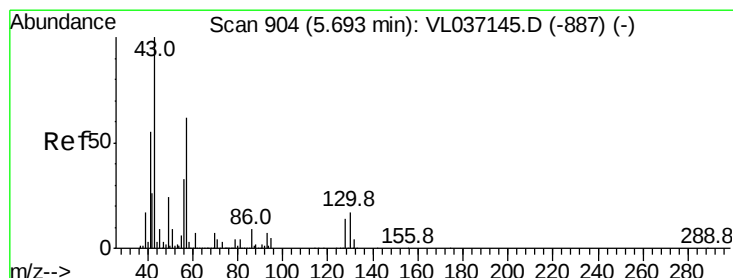
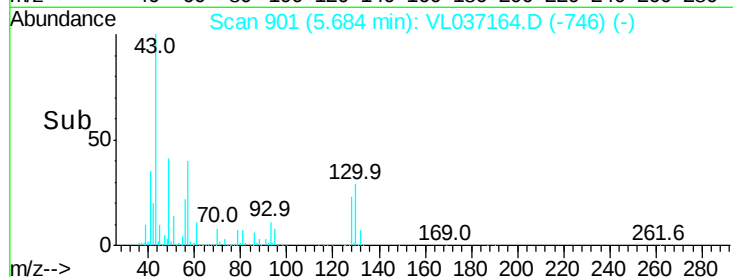
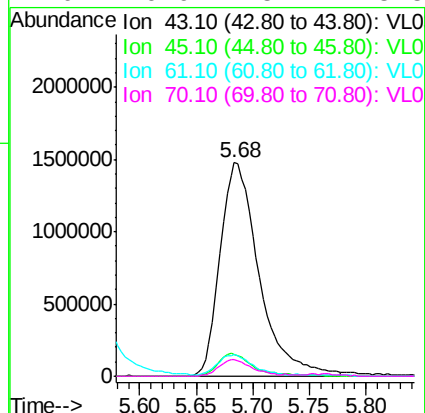
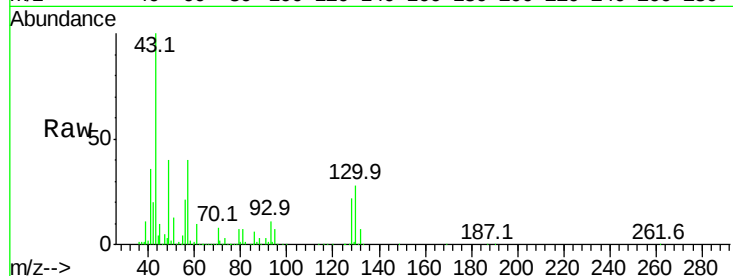


#25  
Ethyl Acetate  
Concen: 9.511 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 43 Resp: 3517297

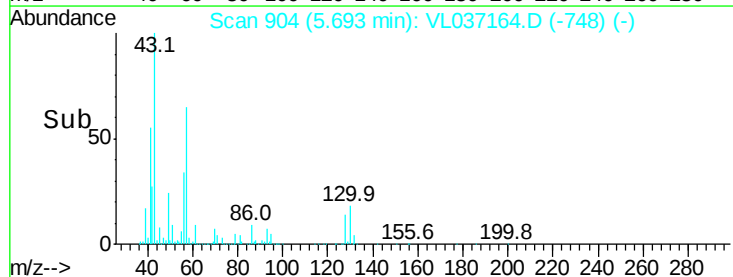
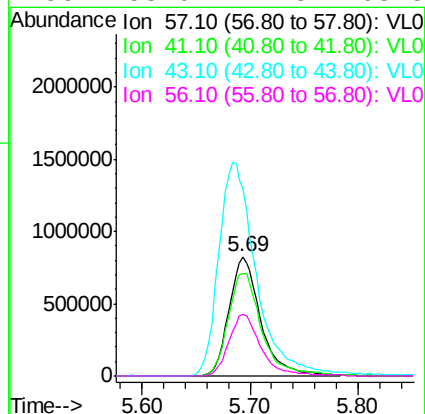
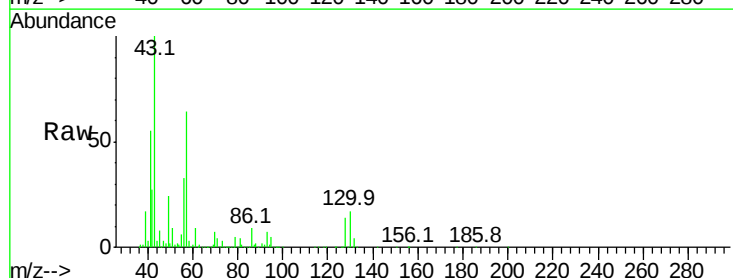
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.0  | 7.8   | 11.8  |
| 61  | 10.1  | 7.5   | 11.3  |
| 70  | 6.9   | 5.7   | 8.5   |

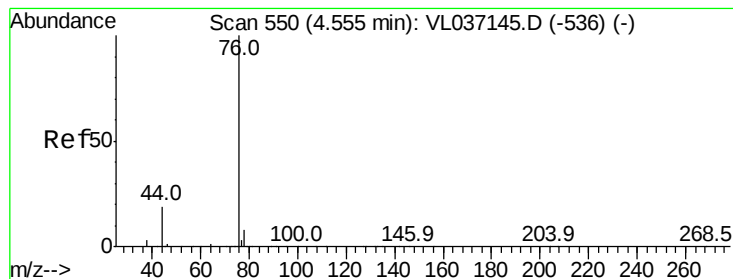


#26  
Hexane  
Concen: 9.181 ppbv  
RT: 5.69 min Scan# 904  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Tgt Ion: 57 Resp: 1688591

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 91.9  | 73.6  | 110.4 |
| 43  | 213.4 | 168.8 | 253.2 |
| 56  | 53.0  | 42.3  | 63.5  |





#27

Carbon Disulfide

Concen: 10.675 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

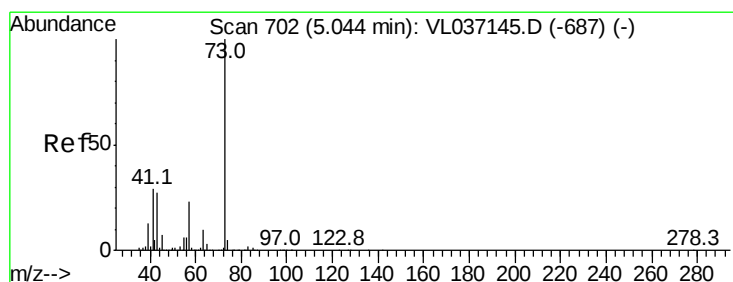
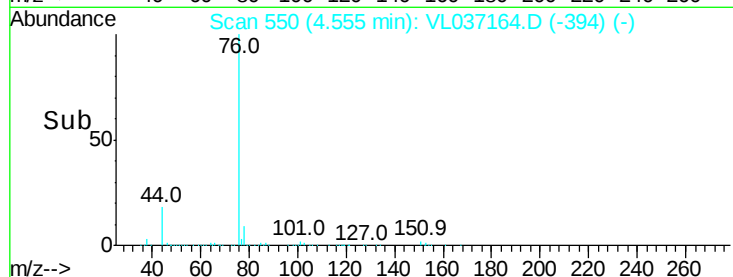
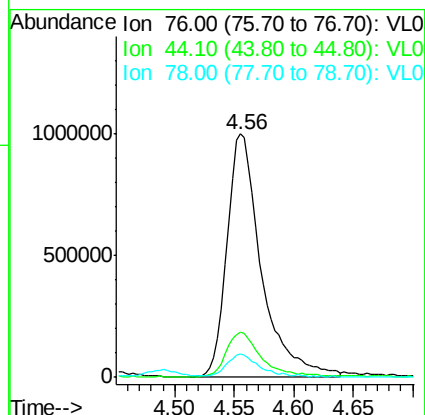
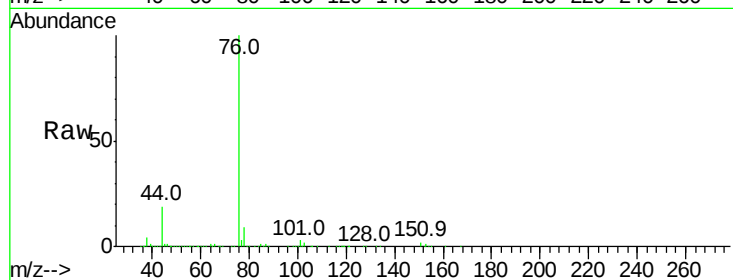
Tgt Ion: 76 Resp: 1990607

Ion Ratio Lower Upper

76 100

44 19.3 15.6 23.4

78 10.0 7.6 11.4



#28

Methyl tert-Butyl Ether

Concen: 9.678 ppbv

RT: 5.04 min Scan# 701

Delta R.T. -0.00 min

Lab File: VL037164.D

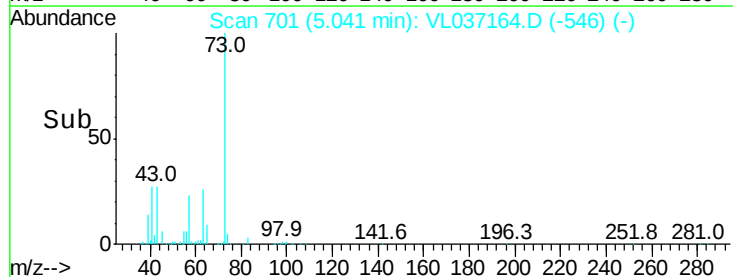
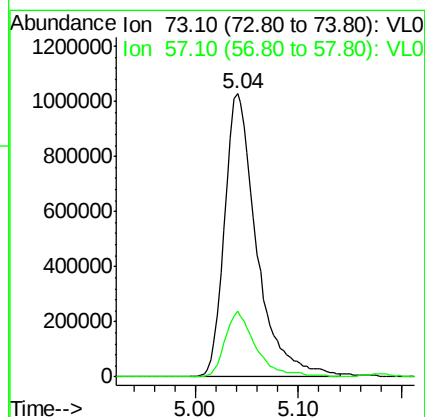
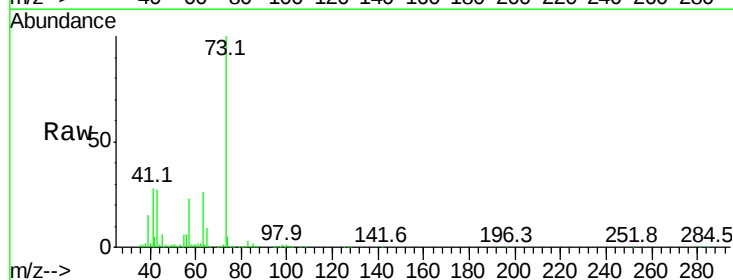
Acq: 16 Jun 2021 9:10

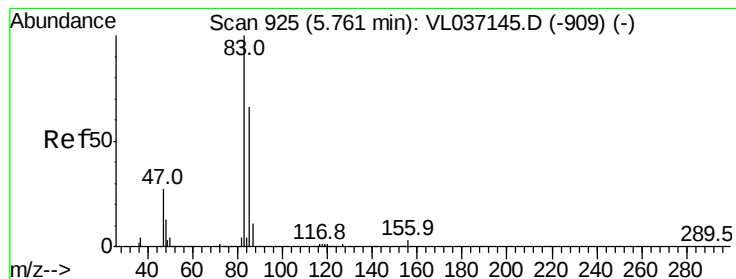
Tgt Ion: 73 Resp: 2229328

Ion Ratio Lower Upper

73 100

57 22.5 18.2 27.4





#29

Chloroform

Concen: 9.221 ppbv

RT: 5.76 min Scan# 925

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

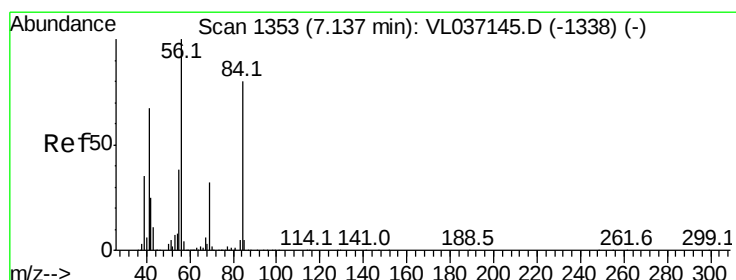
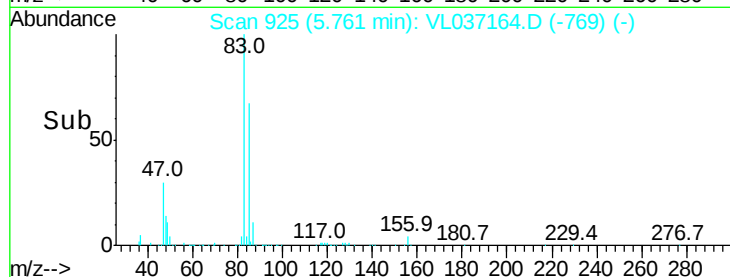
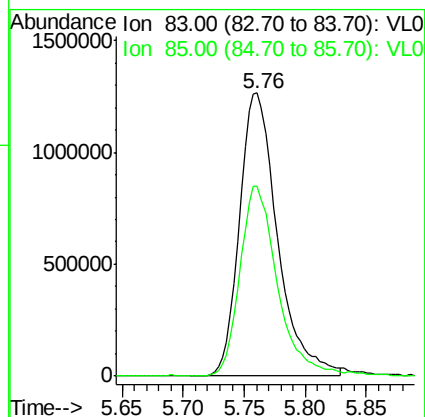
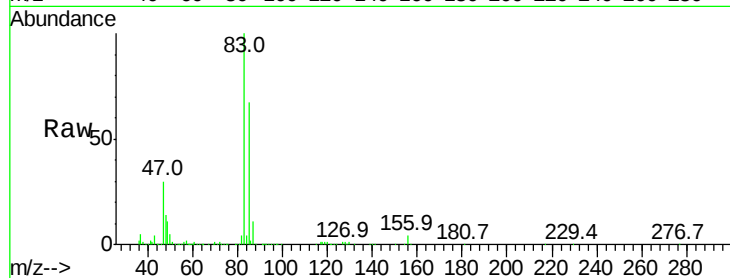
VSTDICCC010

Tgt Ion: 83 Resp: 2737611

Ion Ratio Lower Upper

83 100

85 67.0 52.6 78.8



#30

Cyclohexane

Concen: 9.242 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

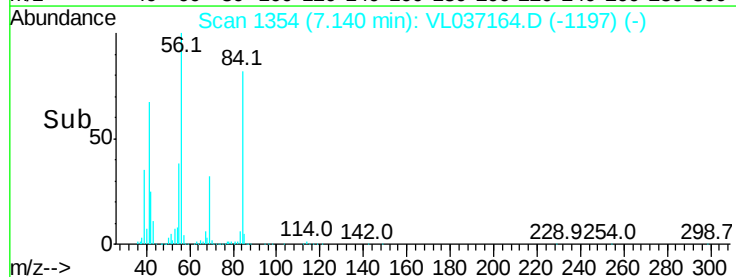
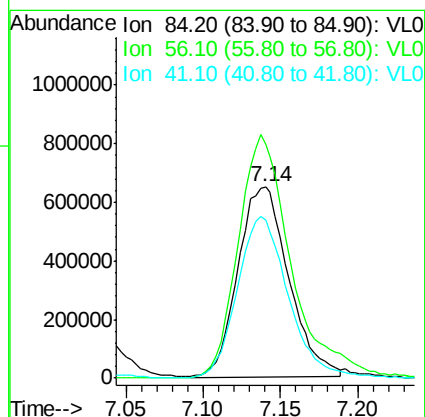
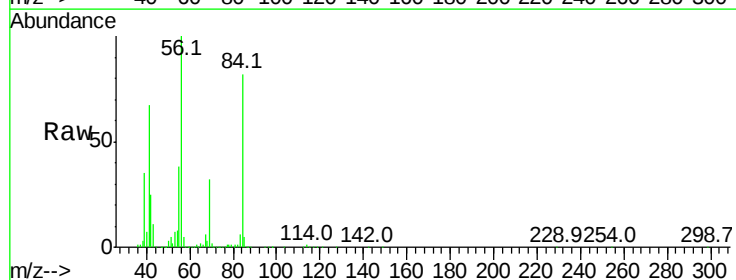
Tgt Ion: 84 Resp: 1481870

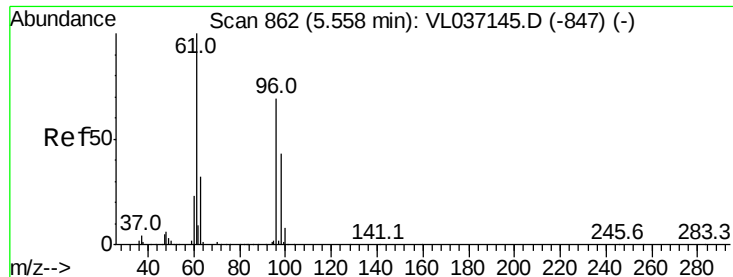
Ion Ratio Lower Upper

84 100

56 134.6 103.9 155.9

41 86.3 66.5 99.7



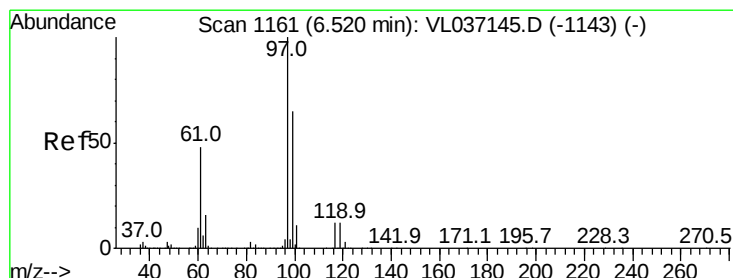
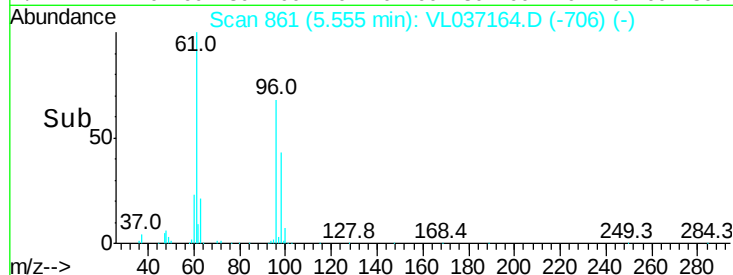
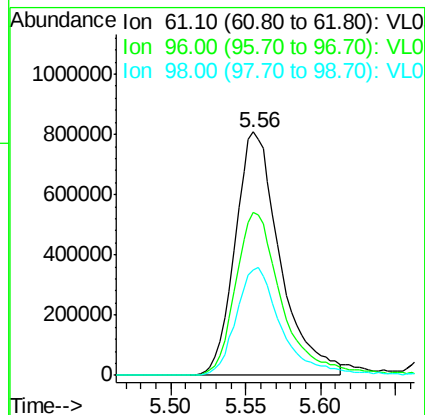
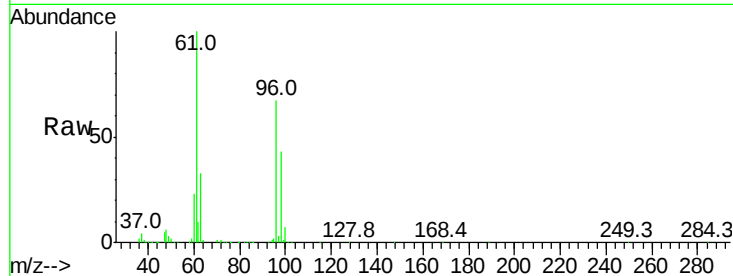


#31

cis-1,2-Dichloroethene  
Concen: 9.464 ppbv  
RT: 5.56 min Scan# 861  
Delta R.T. -0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

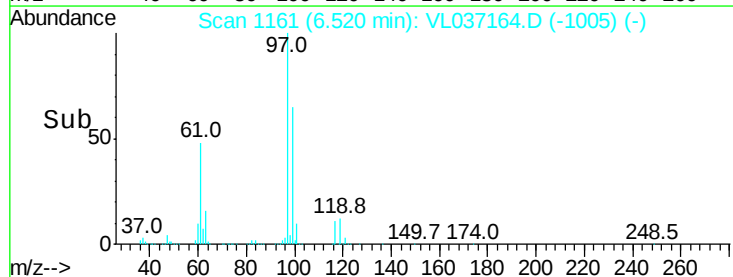
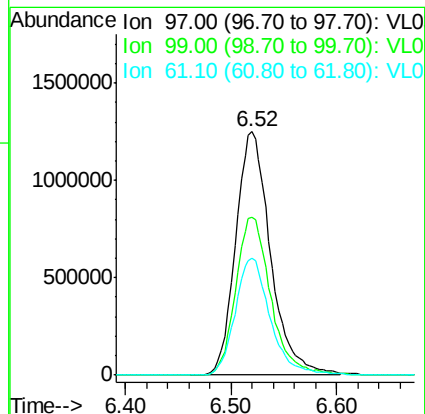
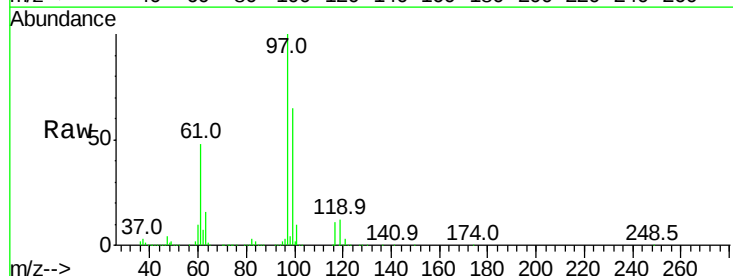
Tgt Ion: 61 Resp: 1677392  
Ion Ratio Lower Upper  
61 100  
96 67.0 55.3 82.9  
98 43.4 34.7 52.1

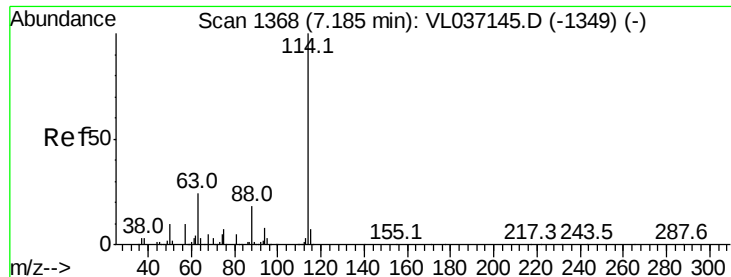


#32

1,1,1-Trichloroethane  
Concen: 10.532 ppbv  
RT: 6.52 min Scan# 1161  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Tgt Ion: 97 Resp: 2871211  
Ion Ratio Lower Upper  
97 100  
99 65.3 52.4 78.6  
61 48.5 38.5 57.7

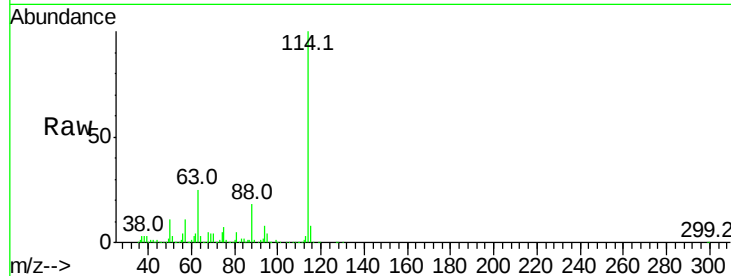




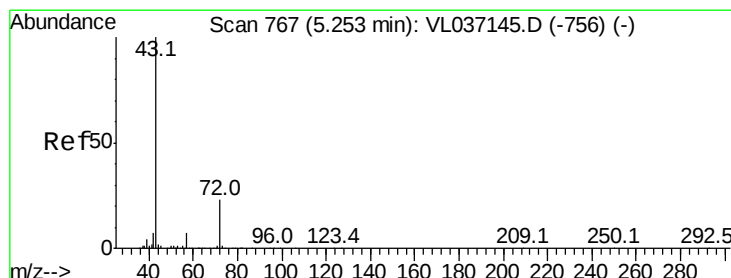
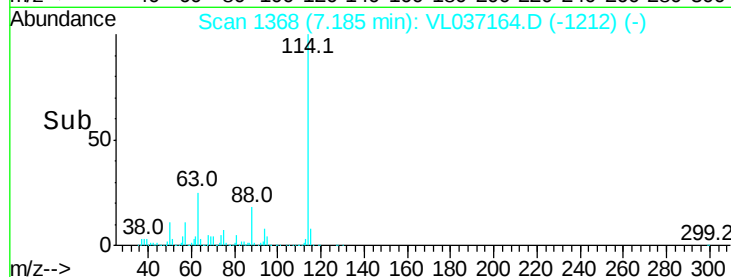
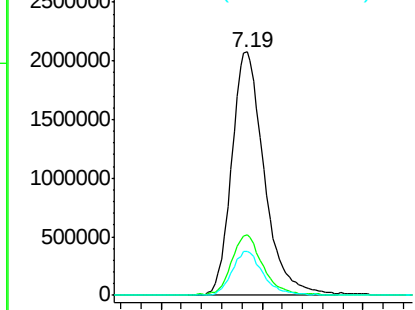
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.19 min Scan# 1368  
 Delta R.T. 0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion:114 Resp: 4661376  
 Ion Ratio Lower Upper  
 114 100  
 63 24.5 19.8 29.6  
 88 17.7 14.3 21.5

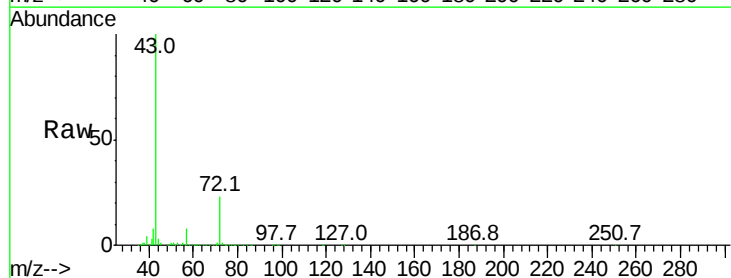


Abundance Ion 114.10 (113.80 to 114.80): V  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

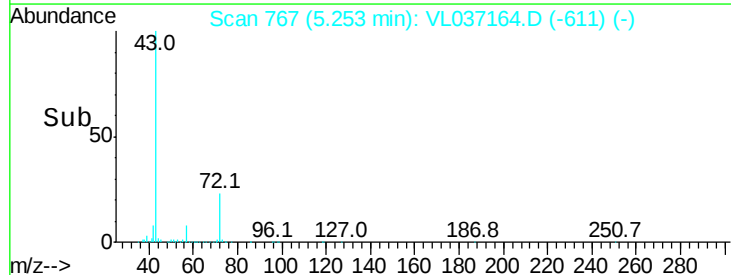
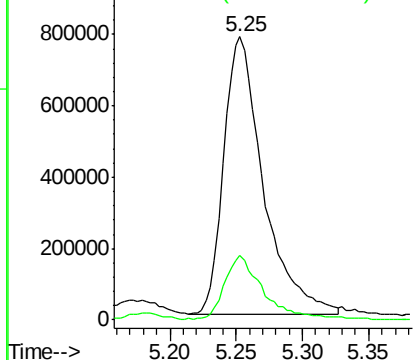


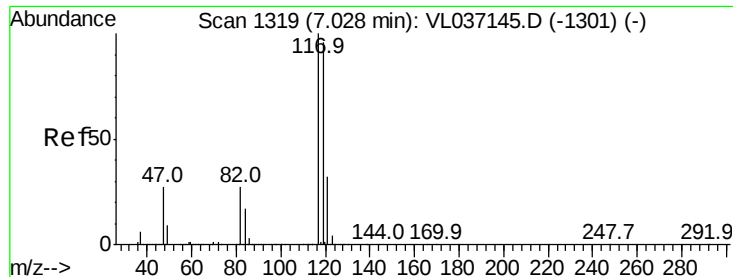
#34  
 2-Butanone  
 Concen: 9.219 ppbv  
 RT: 5.25 min Scan# 767  
 Delta R.T. 0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

Tgt Ion: 43 Resp: 1613943  
 Ion Ratio Lower Upper  
 43 100  
 72 23.6 18.6 28.0



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





#35

Carbon Tetrachloride

Concen: 10.742 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

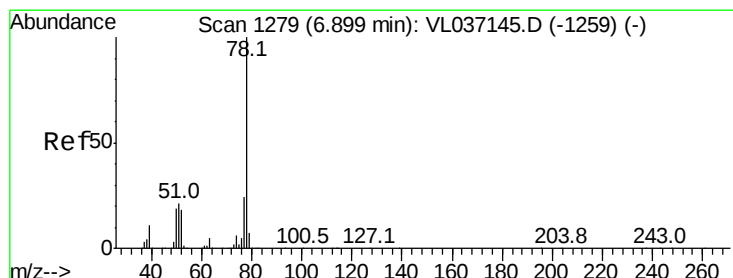
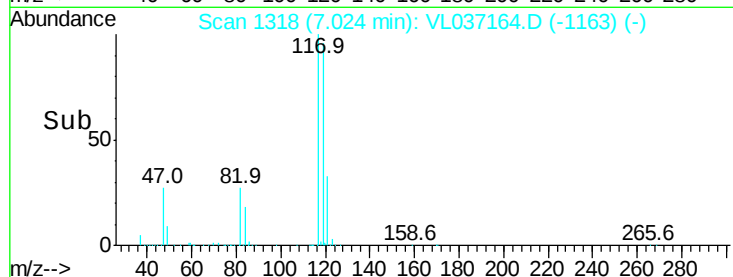
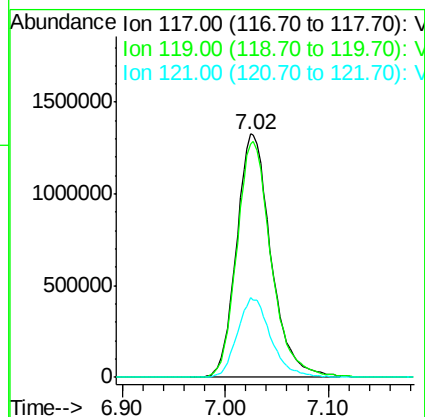
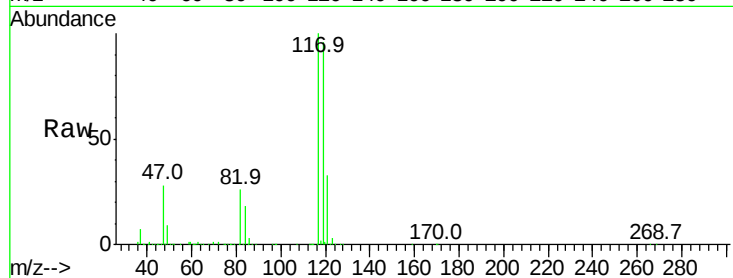
Tgt Ion:117 Resp: 3078026

Ion Ratio Lower Upper

117 100

119 95.7 77.0 115.4

121 33.0 25.4 38.0



#36

Benzene

Concen: 9.619 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

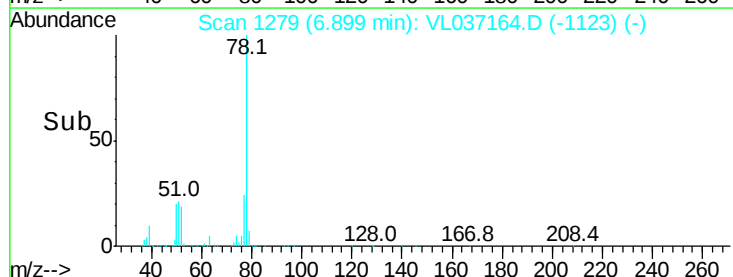
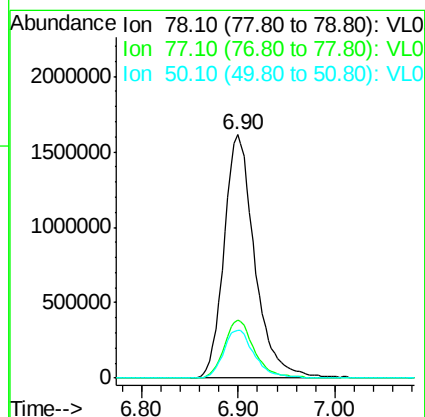
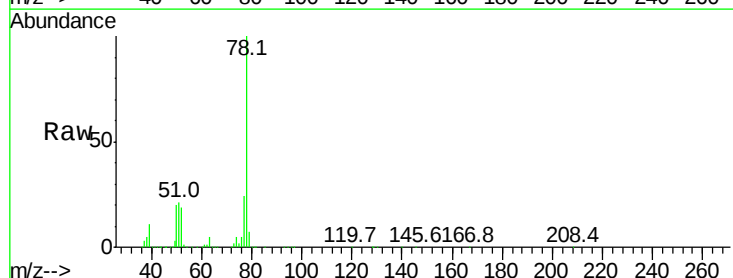
Tgt Ion: 78 Resp: 3557779

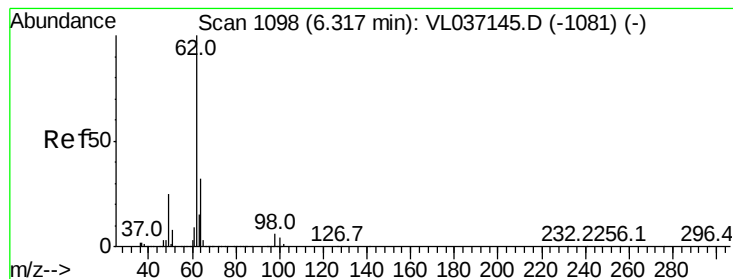
Ion Ratio Lower Upper

78 100

77 23.8 19.5 29.3

50 19.6 15.5 23.3





#37

1,2-Dichloroethane

Concen: 9.673 ppbv

RT: 6.31 min Scan# 1097

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

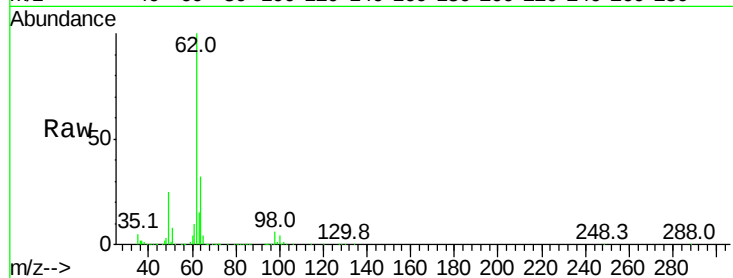
VSTDICCC010

Tgt Ion: 62 Resp: 2077535

Ion Ratio Lower Upper

62 100

98 6.3 5.1 7.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.31

1000000

800000

600000

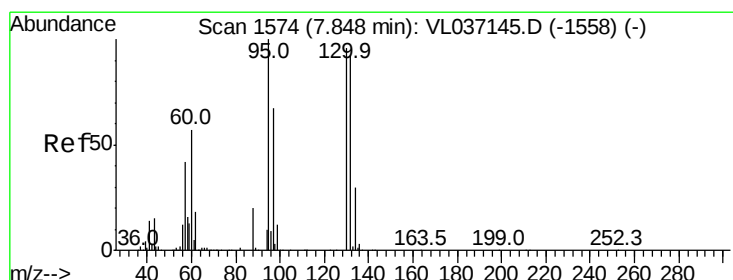
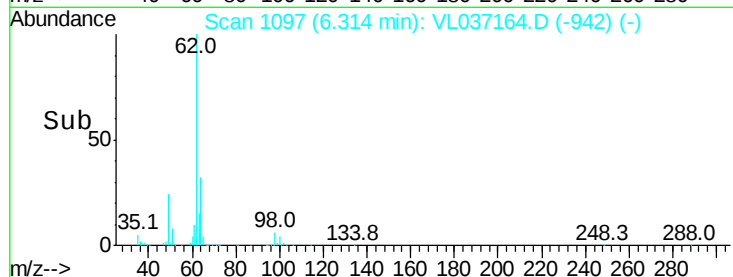
400000

200000

0

Time-->

6.25 6.30 6.35 6.40



#38

Trichloroethene

Concen: 9.400 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Tgt Ion: 130 Resp: 1502390

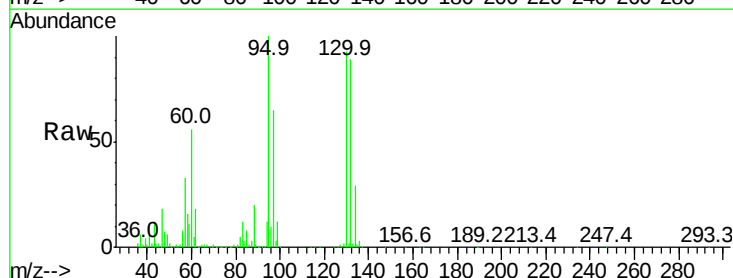
Ion Ratio Lower Upper

130 100

95 108.2 83.5 125.3

132 95.7 76.8 115.2

97 70.1 56.3 84.5



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

1200000

1000000

800000

600000

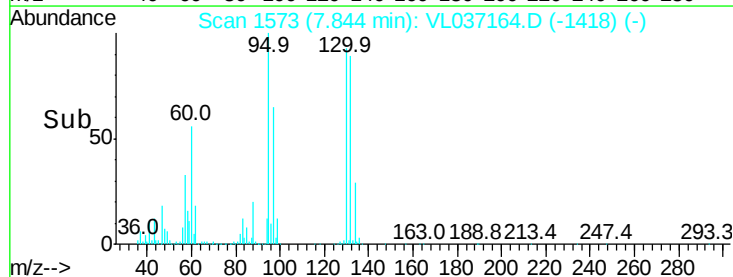
400000

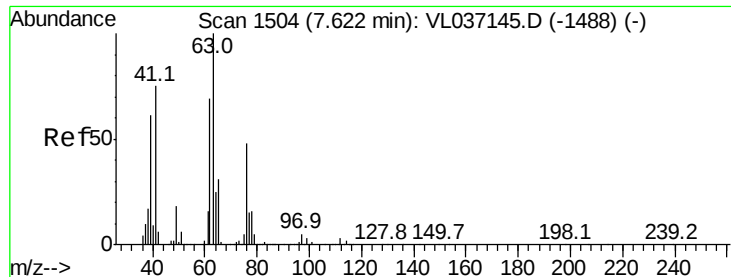
200000

0

Time-->

7.75 7.80 7.85 7.90 7.95





#39

1,2-Dichloropropane

Concen: 9.700 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

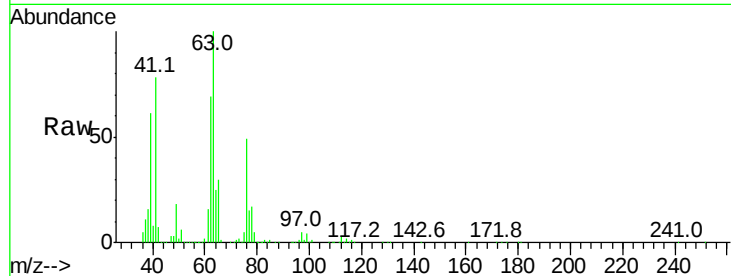
Tgt Ion: 63 Resp: 1369891

Ion Ratio Lower Upper

63 100

41 77.5 60.0 90.0

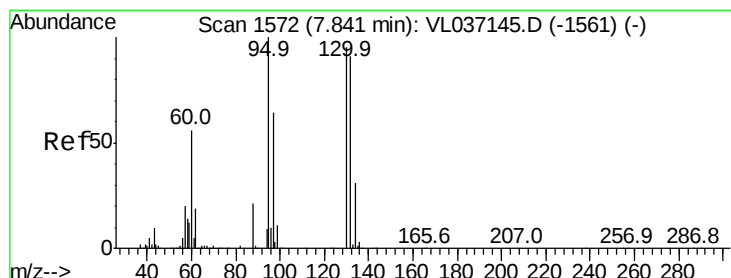
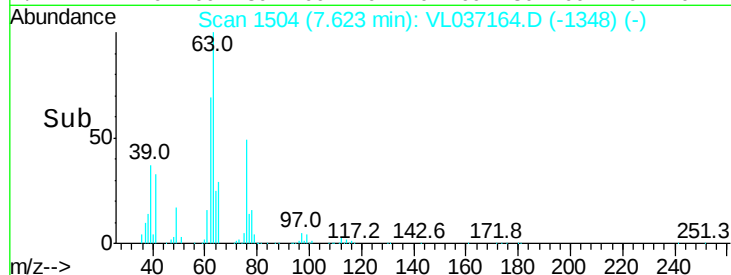
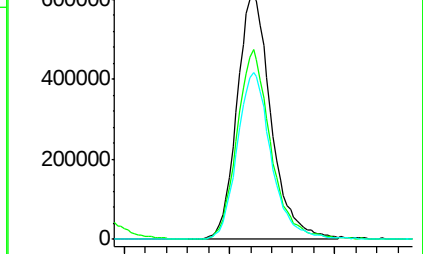
62 68.6 55.4 83.0



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: 9.598 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Tgt Ion: 88 Resp: 379523

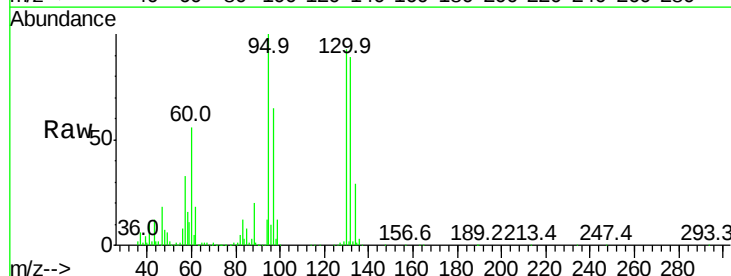
Ion Ratio Lower Upper

88 100

58 148.0 115.6 173.4

43 355.0 278.3 417.5

57 1539.7 1207.4 1811.0

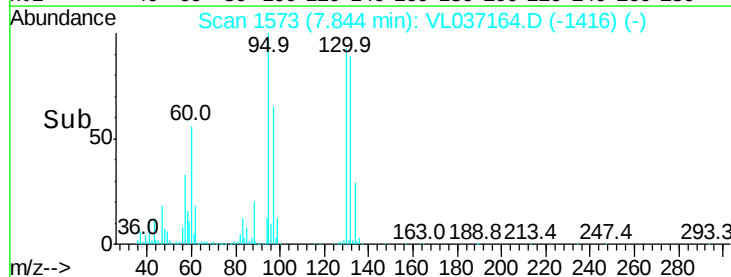
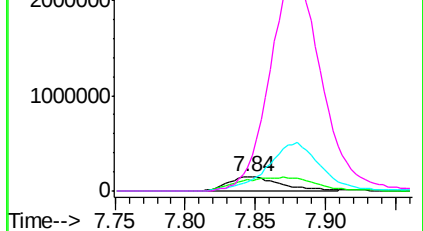


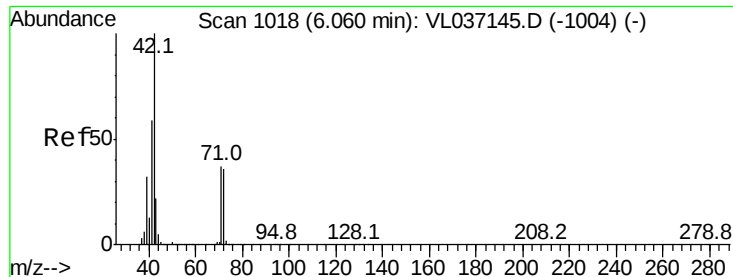
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

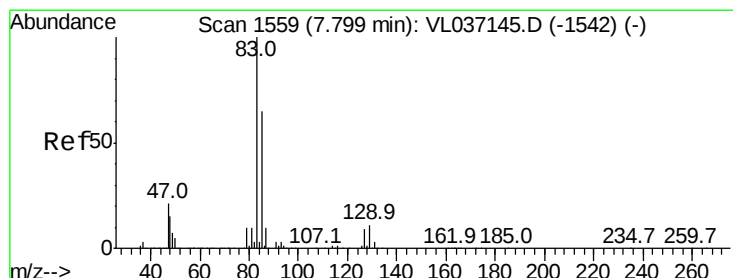
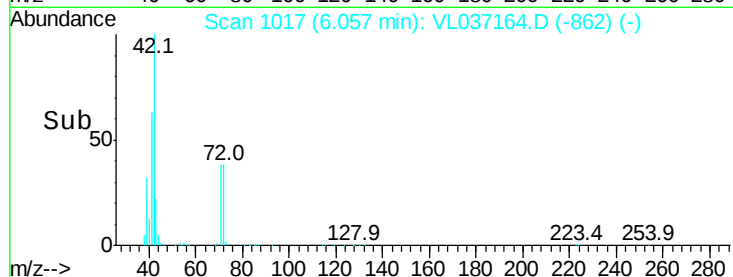
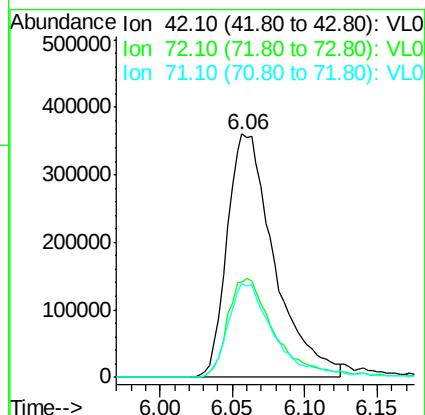
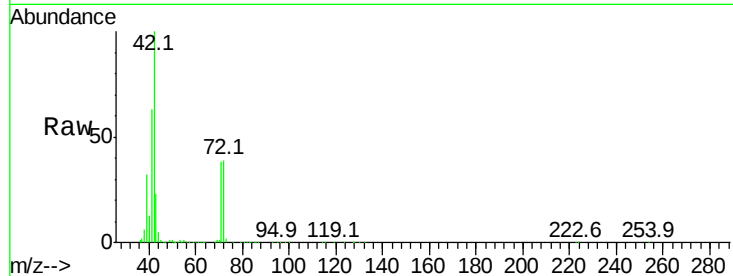




#41  
Tetrahydrofuran  
Concen: 9.555 ppbv  
RT: 6.06 min Scan# 1017  
Delta R.T. -0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

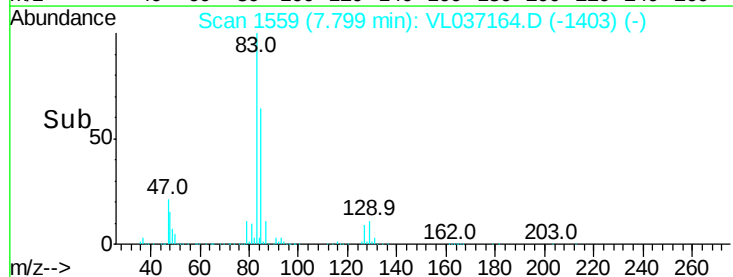
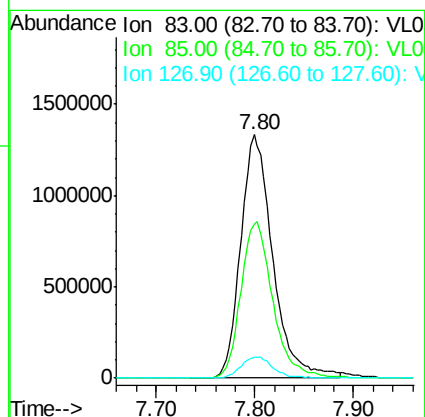
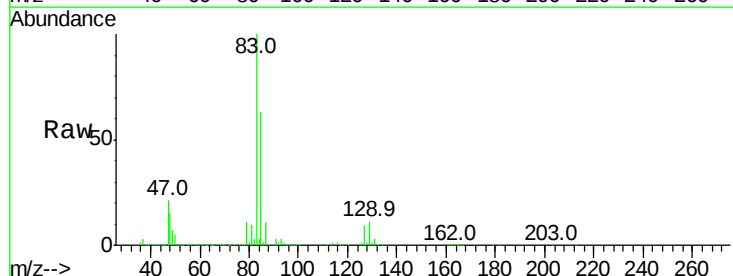
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

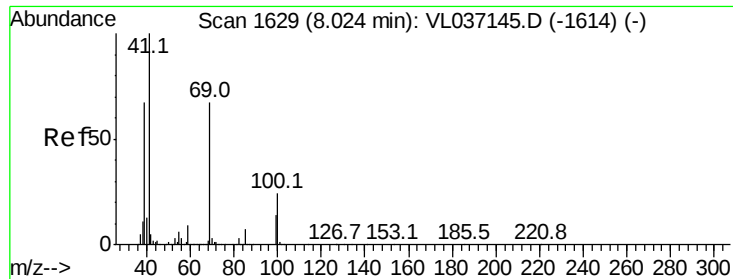
Tgt Ion: 42 Resp: 814098  
Ion Ratio Lower Upper  
42 100  
72 41.2 31.7 47.5  
71 38.8 31.0 46.6



#42  
Bromodichloromethane  
Concen: 10.181 ppbv  
RT: 7.80 min Scan# 1559  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Tgt Ion: 83 Resp: 3012682  
Ion Ratio Lower Upper  
83 100  
85 63.5 51.7 77.5  
127 8.8 7.4 11.0

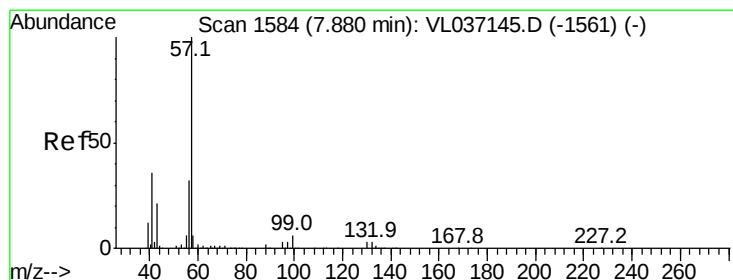
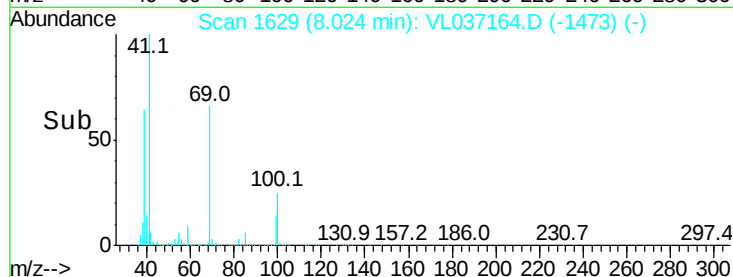
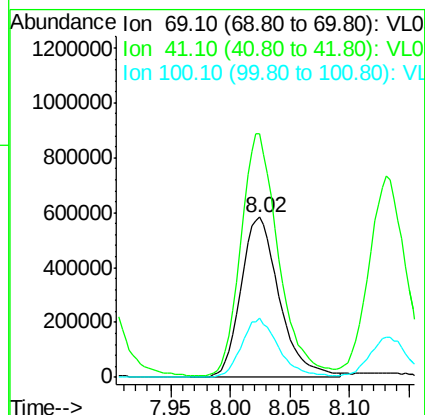
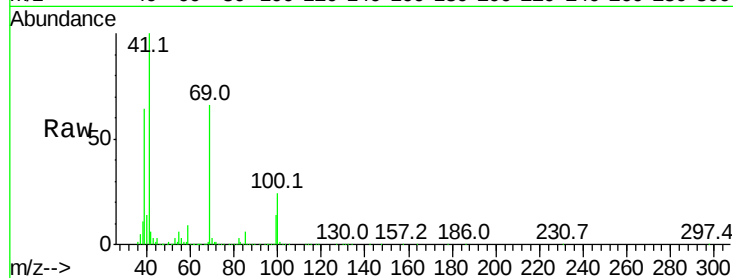




#43  
Methyl Methacrylate  
Concen: 10.329 ppbv  
RT: 8.02 min Scan# 1629  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

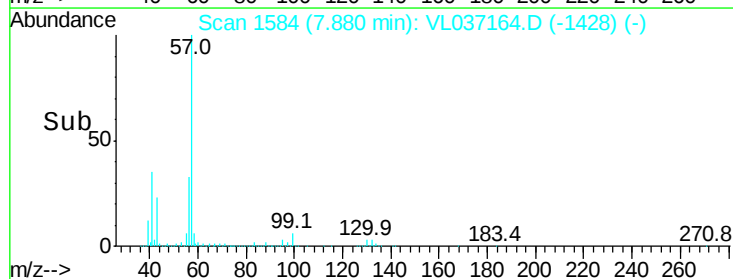
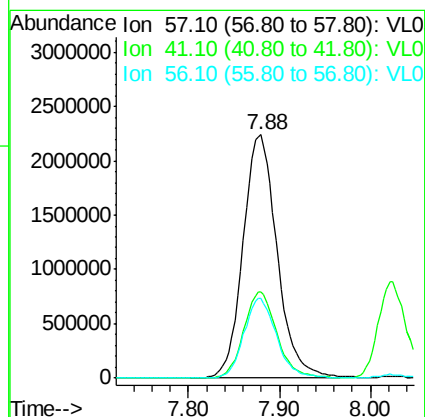
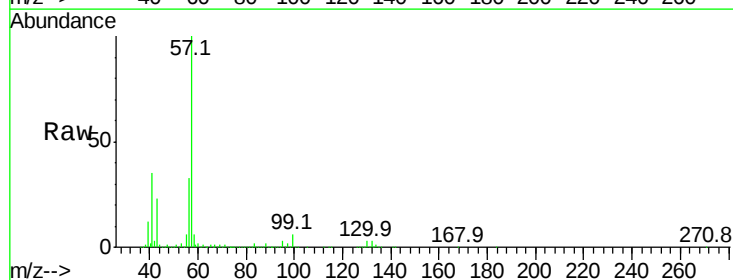
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

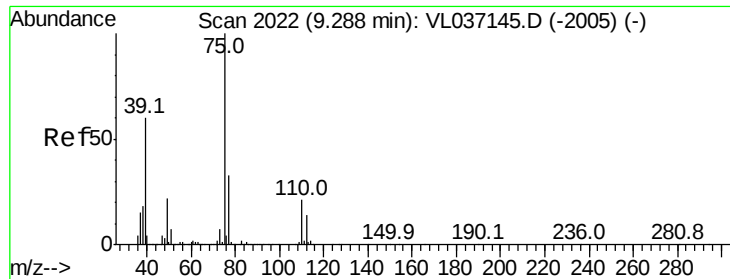
Tgt Ion: 69 Resp: 1310734  
Ion Ratio Lower Upper  
69 100  
41 149.2 117.7 176.5  
100 35.8 27.9 41.9



#44  
2,2,4-Trimethylpentane  
Concen: 9.411 ppbv  
RT: 7.88 min Scan# 1584  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Tgt Ion: 57 Resp: 5826125  
Ion Ratio Lower Upper  
57 100  
41 34.5 28.1 42.1  
56 31.6 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 11.853 ppbv

RT: 9.29 min Scan# 2022

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

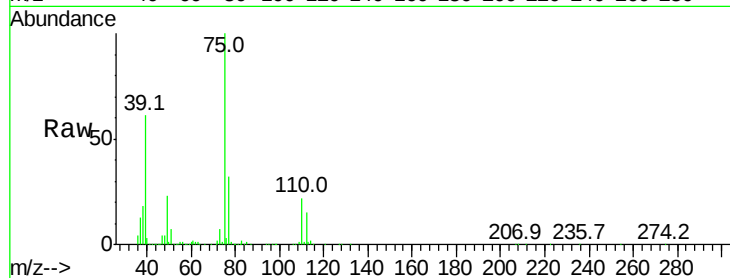
VSTDICCC010

Tgt Ion: 75 Resp: 1355392

Ion Ratio Lower Upper

75 100

77 32.0 26.2 39.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.29

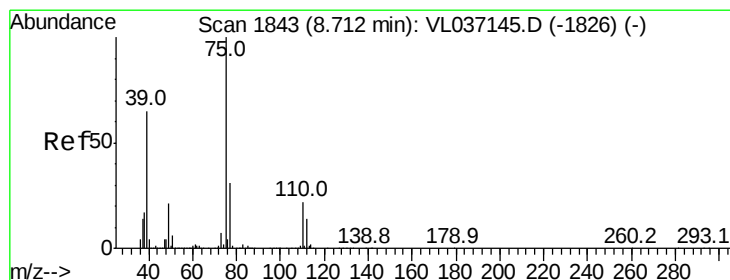
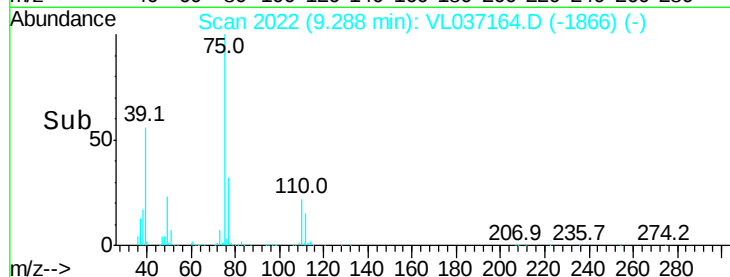
600000

400000

200000

0

Time--> 9.20 9.25 9.30 9.35



#46

cis-1,3-Dichloropropene

Concen: 11.194 ppbv

RT: 8.71 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

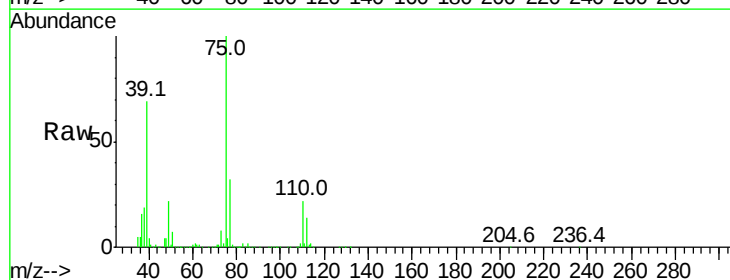
Tgt Ion: 75 Resp: 1707894

Ion Ratio Lower Upper

75 100

39 68.4 52.2 78.4

77 32.3 24.5 36.7



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

1000000

800000

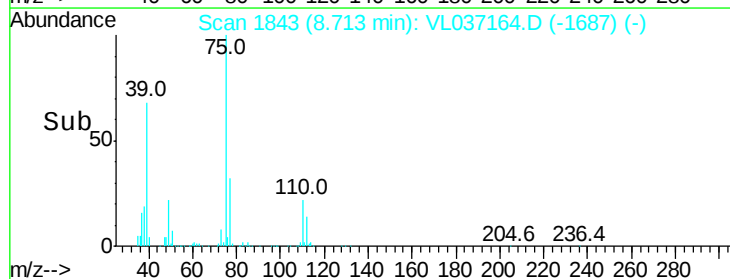
600000

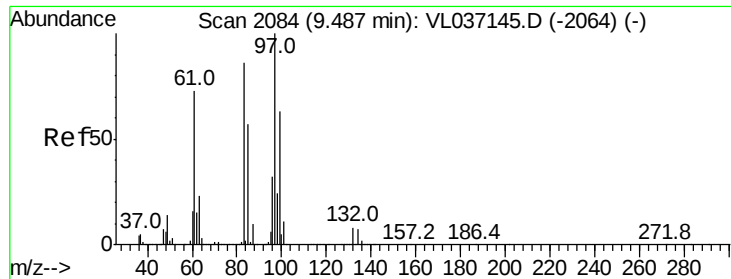
400000

200000

0

Time--> 8.60 8.65 8.70 8.75 8.80





#47

1,1,2-Trichloroethane

Concen: 9.381 ppbv

RT: 9.48 min Scan# 2083

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 1502585

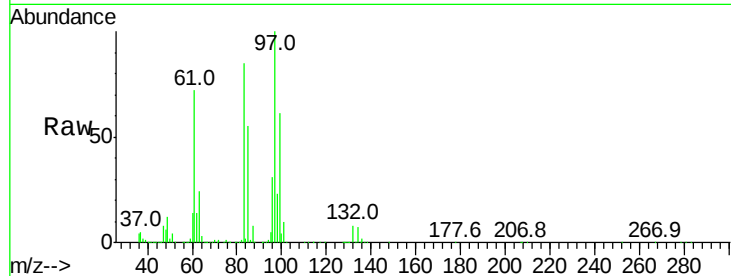
Ion Ratio Lower Upper

97 100

83 85.4 69.0 103.4

85 55.1 45.7 68.5

99 60.7 50.6 76.0

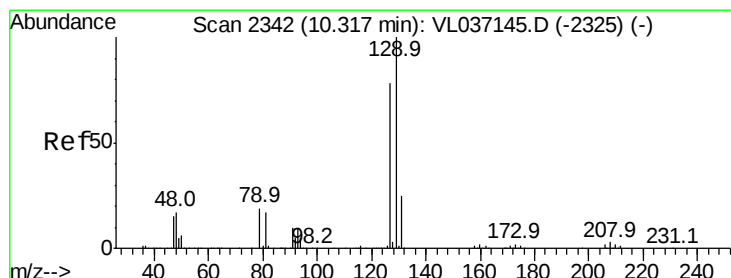
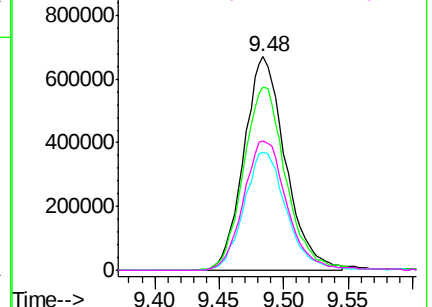
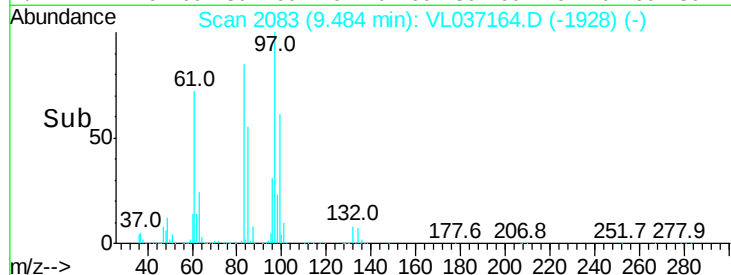


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 10.375 ppbv

RT: 10.31 min Scan# 2341

Delta R.T. -0.00 min

Lab File: VL037164.D

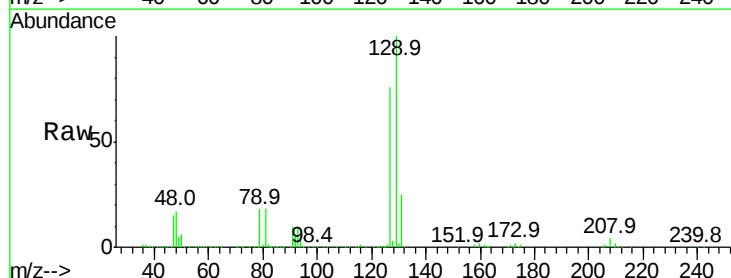
Acq: 16 Jun 2021 9:10

Tgt Ion: 129 Resp: 2680891

Ion Ratio Lower Upper

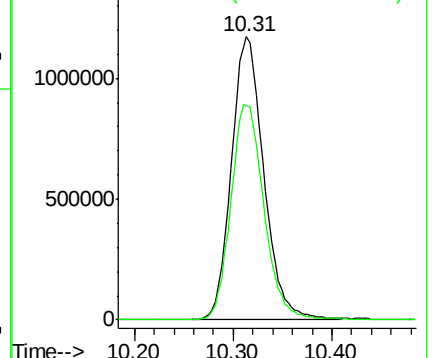
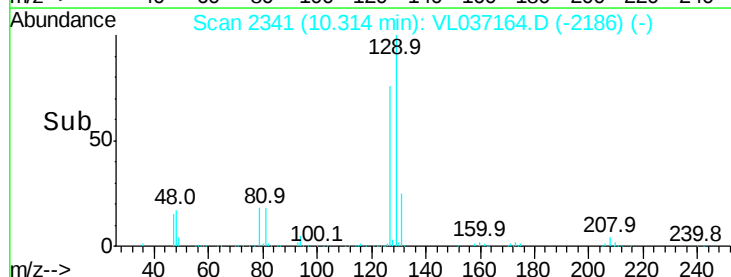
129 100

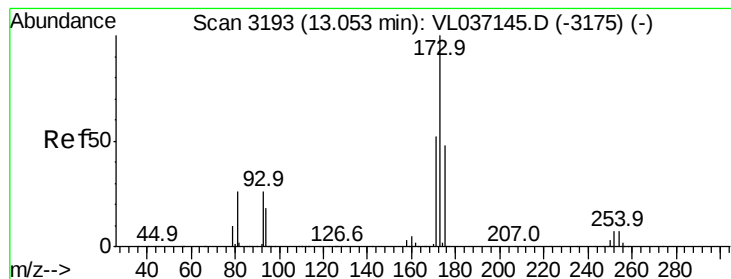
127 78.1 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.551 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

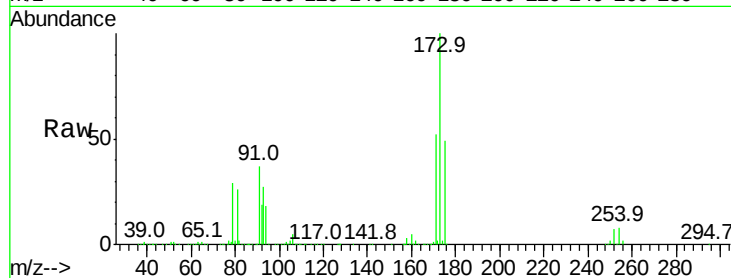
Tgt Ion:173 Resp: 2129835

Ion Ratio Lower Upper

173 100

175 50.3 39.8 59.6

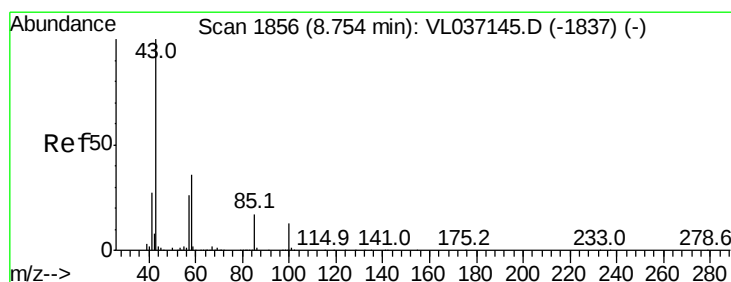
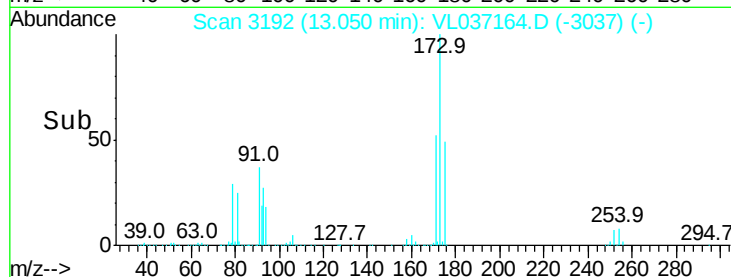
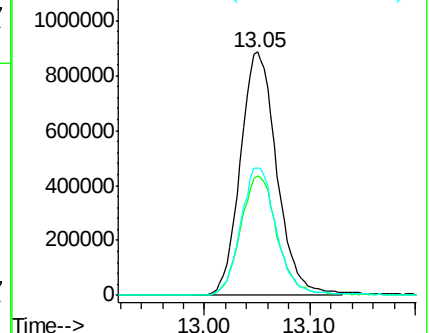
171 52.3 42.5 63.7



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: 9.588 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VL037164.D

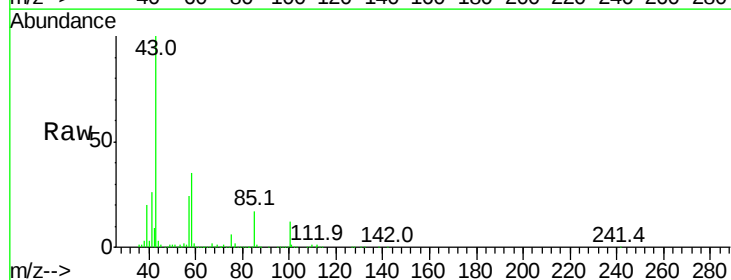
Acq: 16 Jun 2021 9:10

Tgt Ion: 43 Resp: 2469242

Ion Ratio Lower Upper

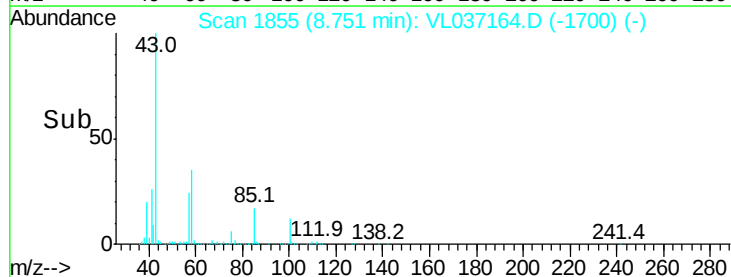
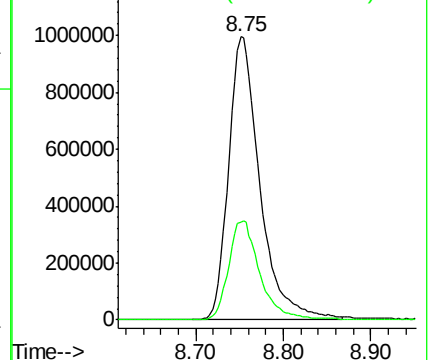
43 100

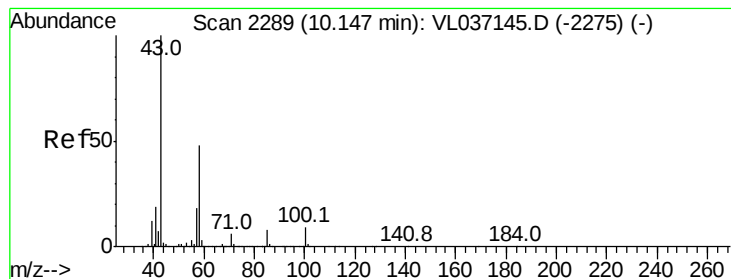
58 35.5 29.0 43.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.585 ppbv

RT: 10.15 min Scan# 2290

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

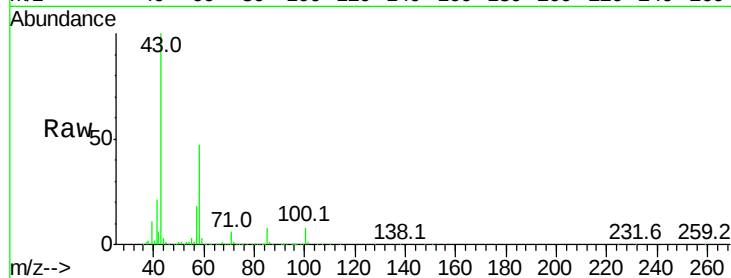
Tgt Ion: 43 Resp: 1232059

Ion Ratio Lower Upper

43 100

58 48.0 40.1 60.1

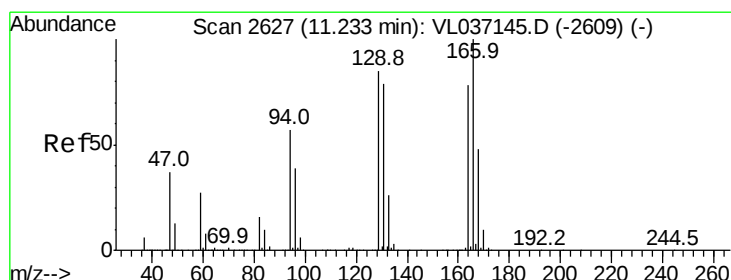
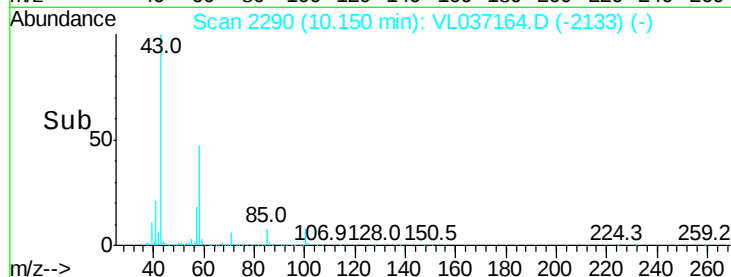
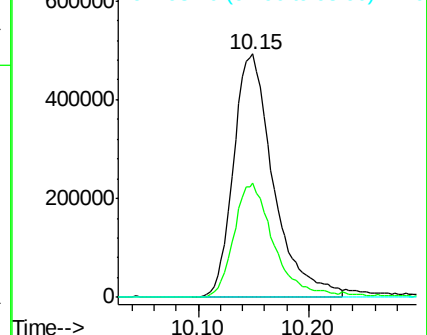
98 0.4 0.2 0.4#



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: 9.666 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Tgt Ion: 164 Resp: 1478694

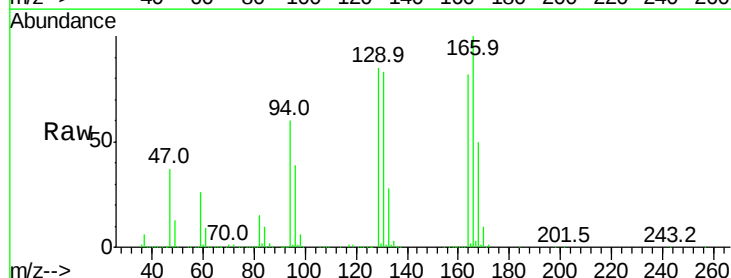
Ion Ratio Lower Upper

164 100

166 122.0 102.6 154.0

129 103.6 87.4 131.2

131 100.7 81.4 122.2

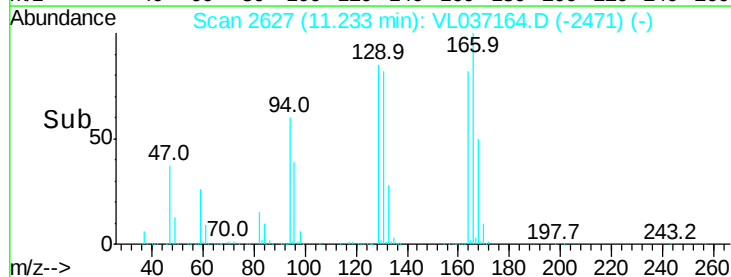
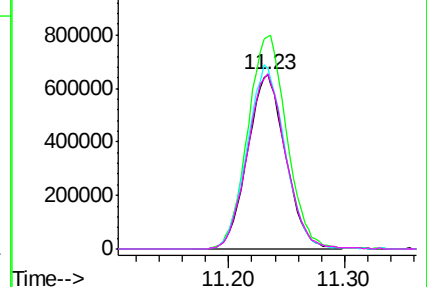


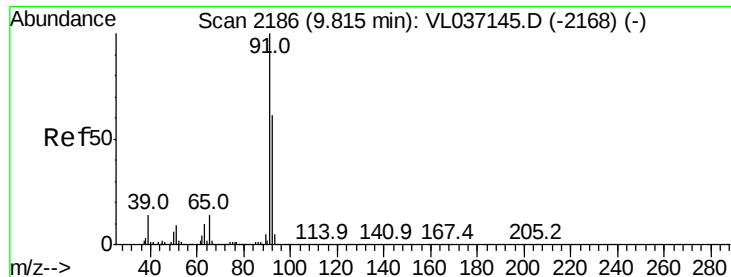
Abundance Ion 163.90 (163.60 to 164.60): V

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: 9.666 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

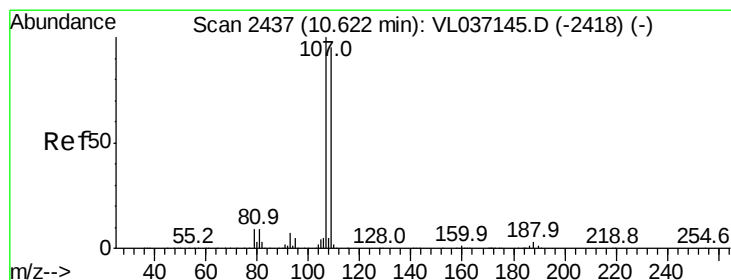
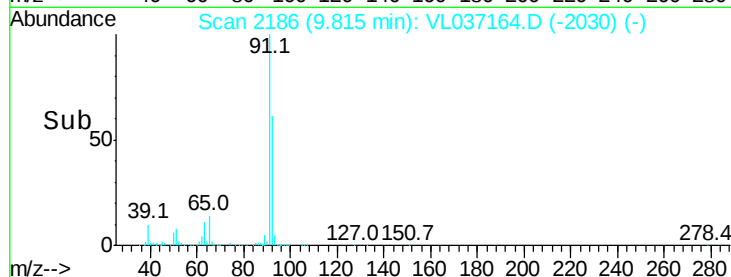
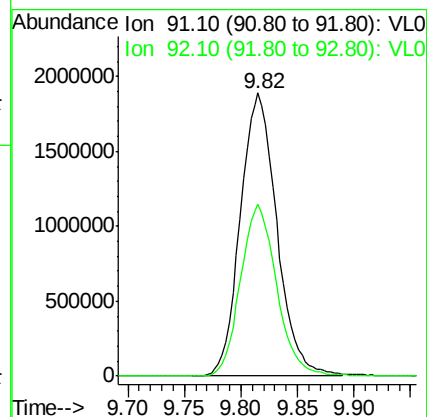
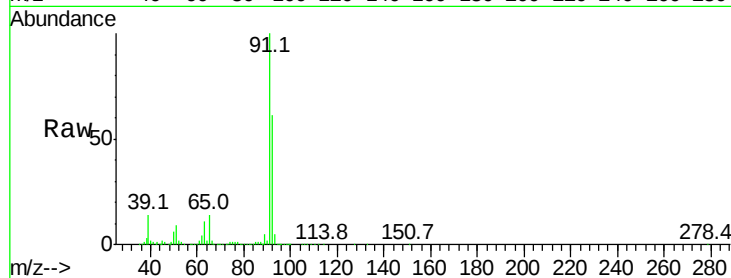
VSTDICCC010

Tgt Ion: 91 Resp: 4249855

Ion Ratio Lower Upper

91 100

92 60.4 48.6 73.0



#54

1,2-Dibromoethane

Concen: 9.528 ppbv

RT: 10.62 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VL037164.D

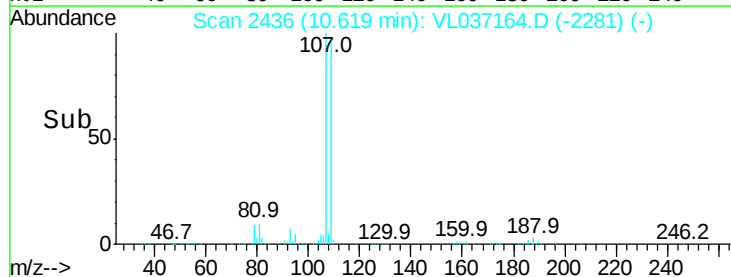
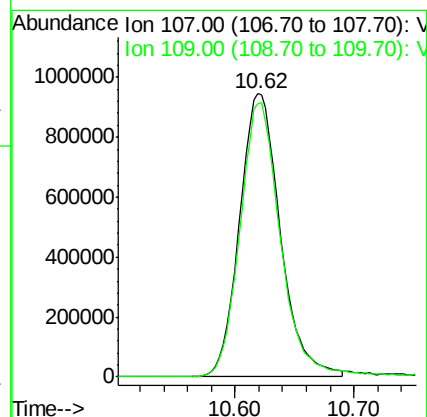
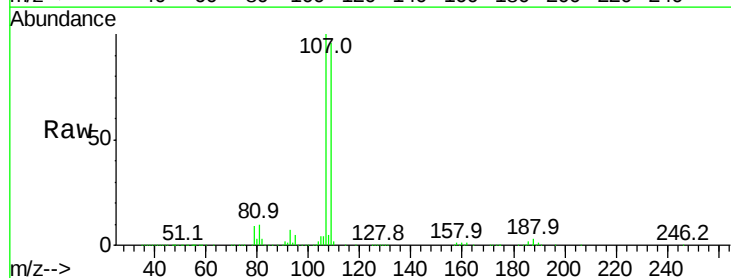
Acq: 16 Jun 2021 9:10

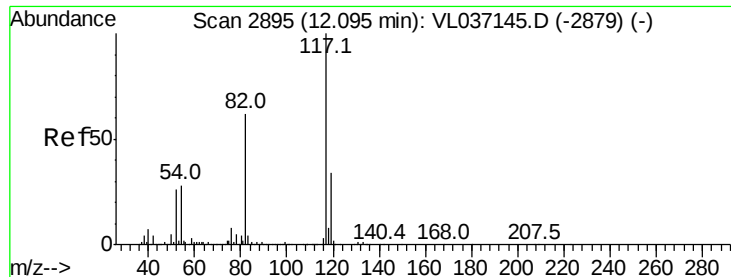
Tgt Ion: 107 Resp: 2234605

Ion Ratio Lower Upper

107 100

109 96.3 75.6 113.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

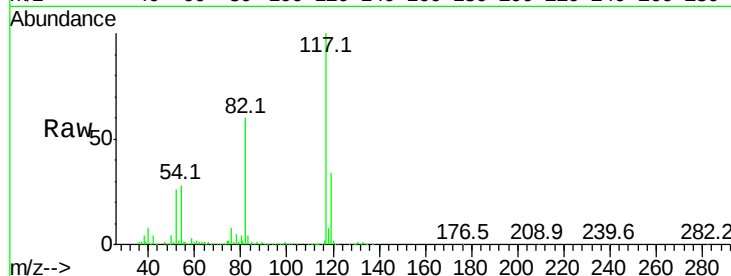
Tgt Ion:117 Resp: 5404401

Ion Ratio Lower Upper

117 100

82 51.4 50.6 76.0

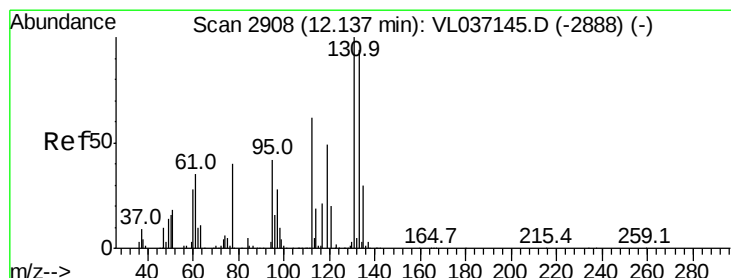
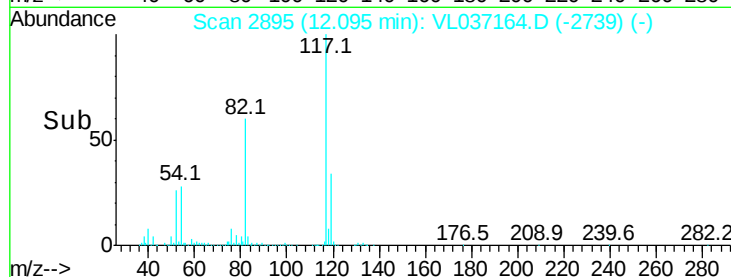
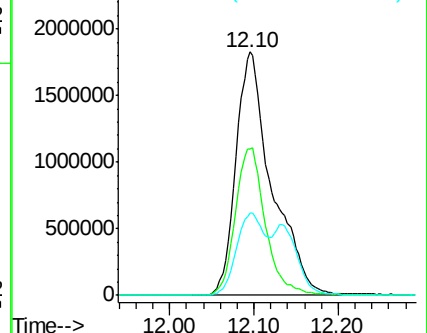
119 47.3 27.1 40.7#



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: 7.697 ppbv

RT: 12.14 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

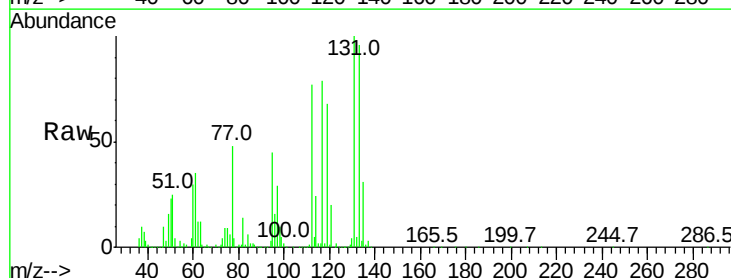
Tgt Ion:131 Resp: 1814157

Ion Ratio Lower Upper

131 100

133 95.6 76.7 115.1

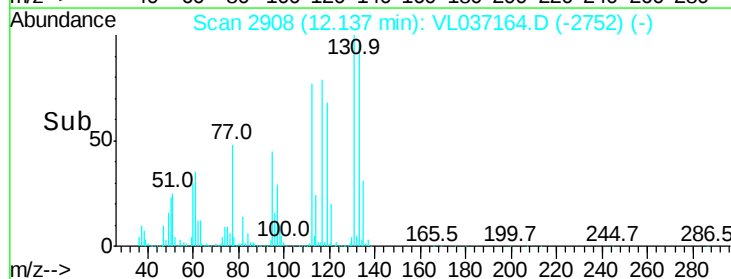
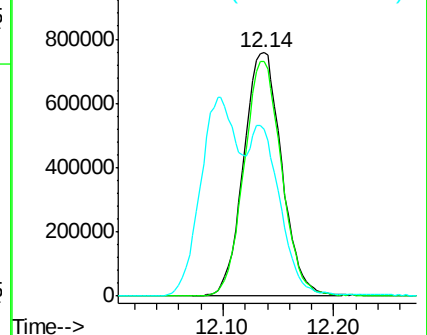
119 60.7 50.7 76.1

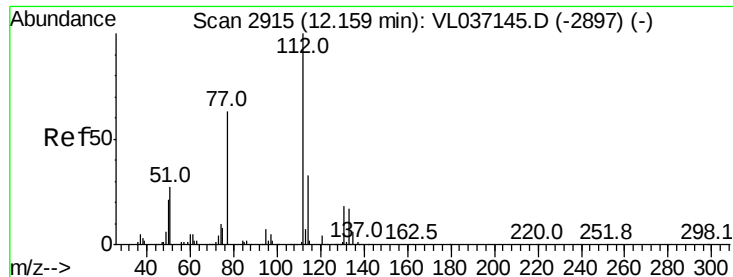


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 7.398 ppbv

RT: 12.16 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

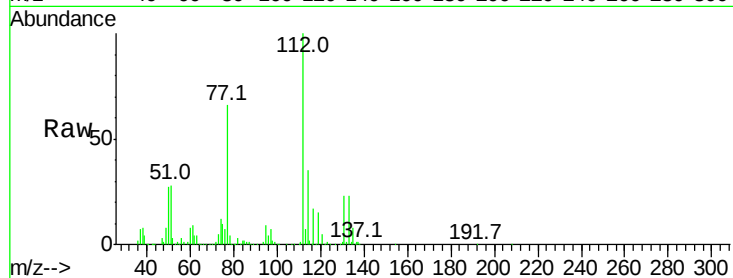
Tgt Ion: 112 Resp: 3203813

Ion Ratio Lower Upper

112 100

77 65.3 51.4 77.2

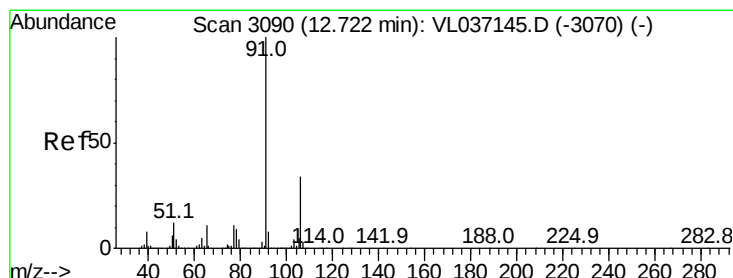
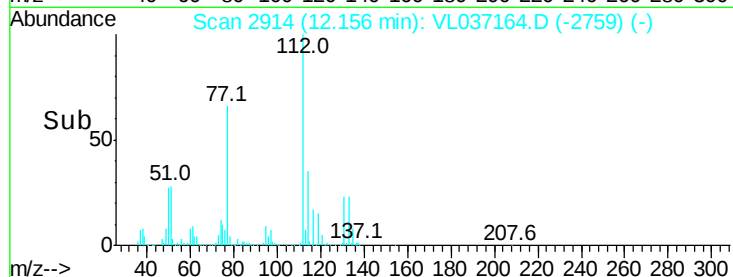
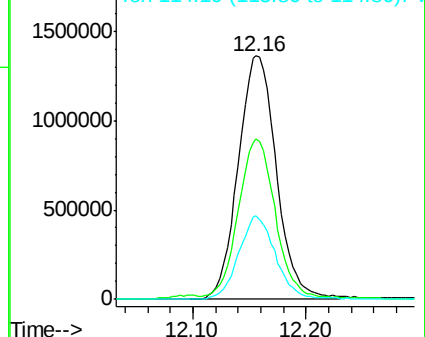
114 34.6 29.7 36.3



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 7.653 ppbv

RT: 12.72 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL037164.D

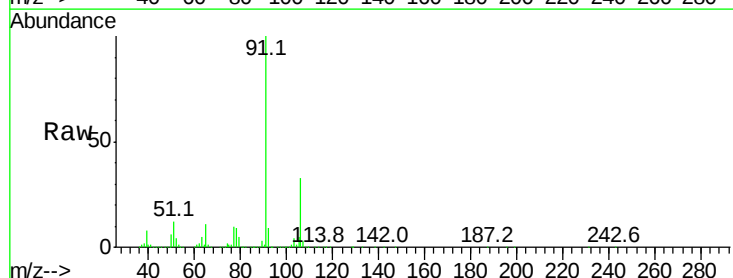
Acq: 16 Jun 2021 9:10

Tgt Ion: 91 Resp: 5602483

Ion Ratio Lower Upper

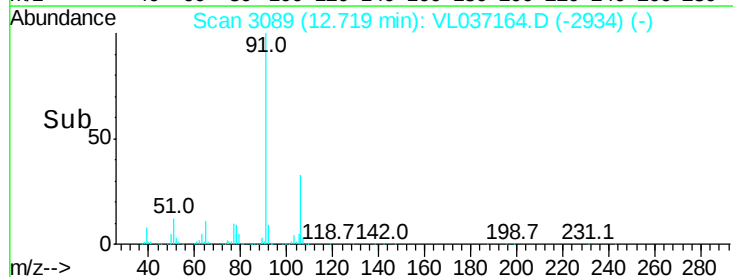
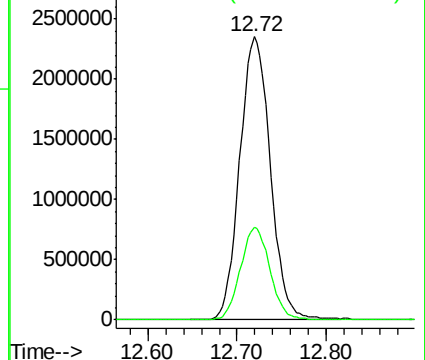
91 100

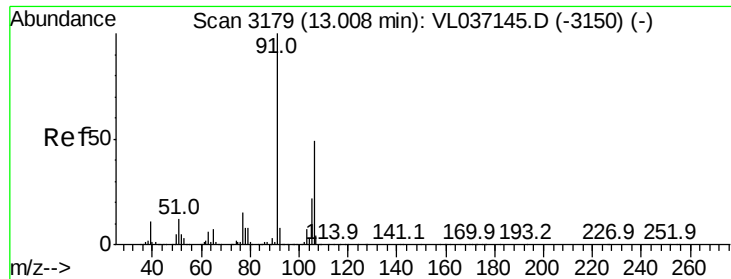
106 32.9 26.8 40.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

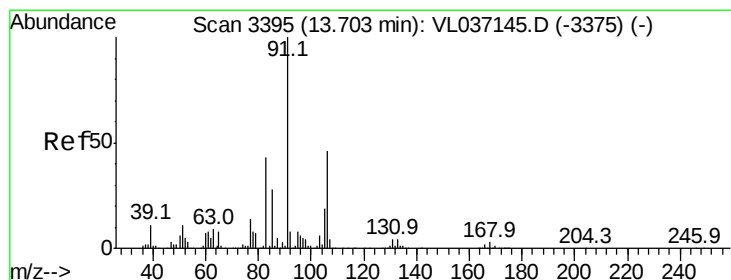
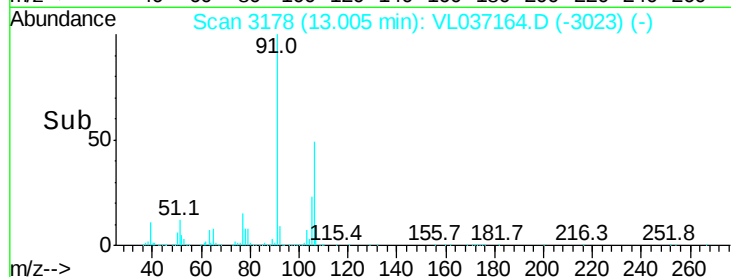
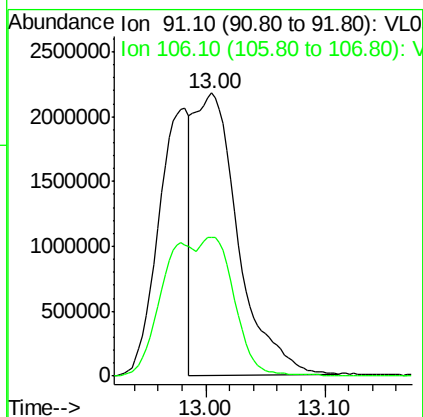
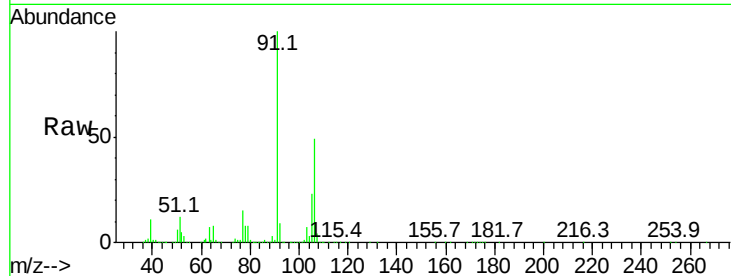




#59  
m/p-Xylene  
Concen: 9.038 ppbv  
RT: 13.00 min Scan# 3178  
Delta R.T. -0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

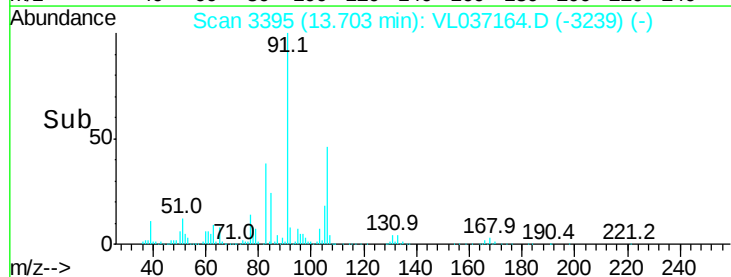
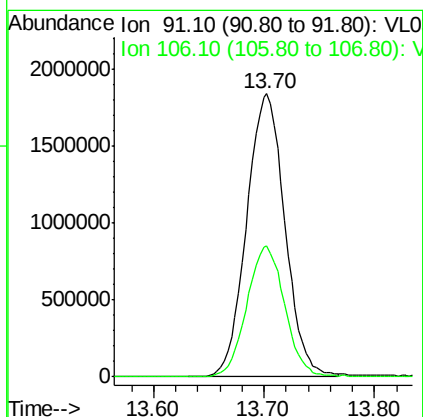
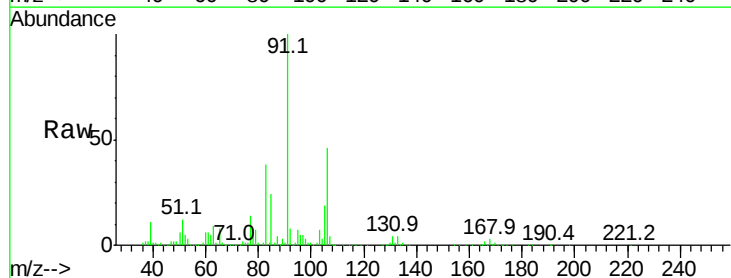
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

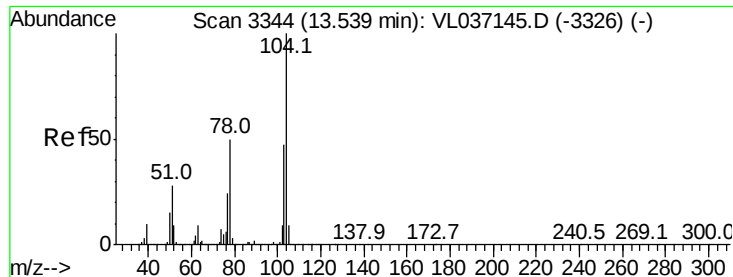
Tgt Ion: 91 Resp: 5622450  
Ion Ratio Lower Upper  
91 100  
106 77.1 36.9 55.3#



#60  
o-Xylene  
Concen: 7.400 ppbv  
RT: 13.70 min Scan# 3395  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Tgt Ion: 91 Resp: 4420010  
Ion Ratio Lower Upper  
91 100  
106 46.0 23.1 69.3





#61

Styrene

Concen: 8.226 ppbv

RT: 13.54 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

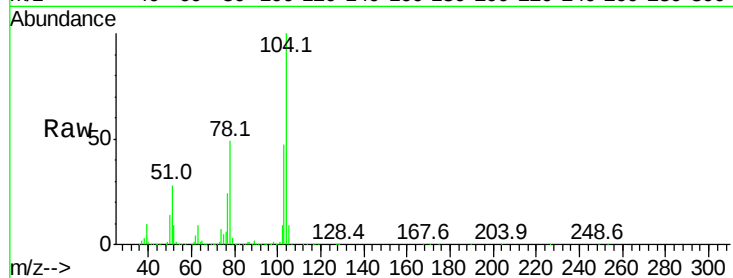
Tgt Ion:104 Resp: 2590496

Ion Ratio Lower Upper

104 100

78 49.6 40.9 61.3

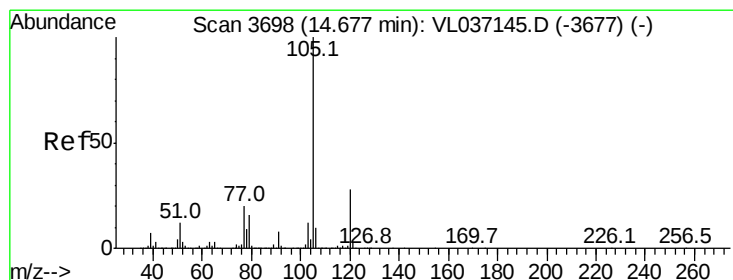
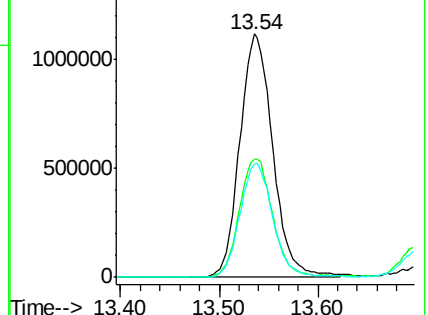
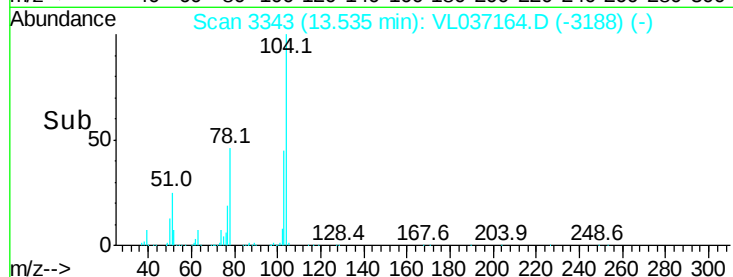
103 47.0 38.6 58.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.230 ppbv

RT: 14.68 min Scan# 3698

Delta R.T. 0.00 min

Lab File: VL037164.D

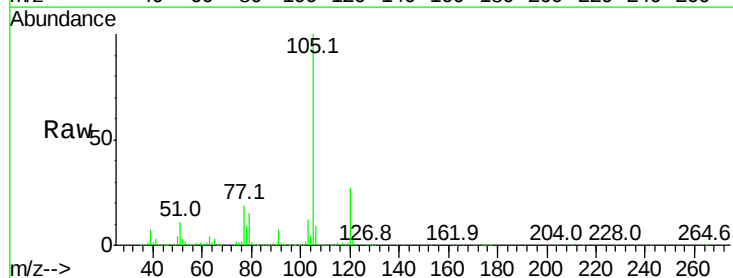
Acq: 16 Jun 2021 9:10

Tgt Ion:105 Resp: 6155073

Ion Ratio Lower Upper

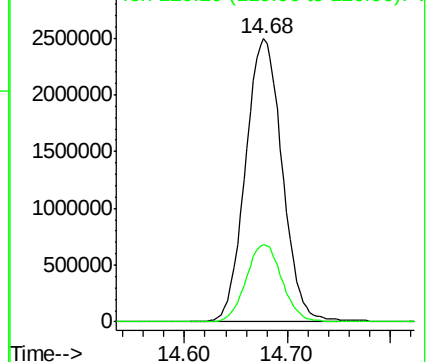
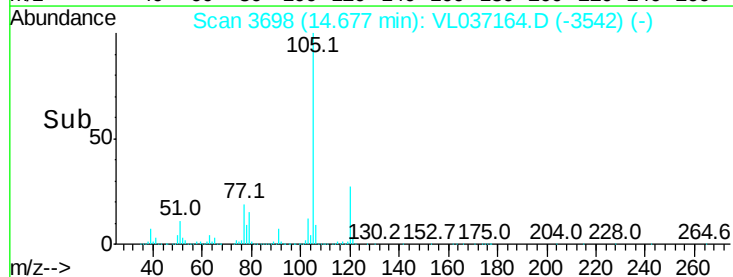
105 100

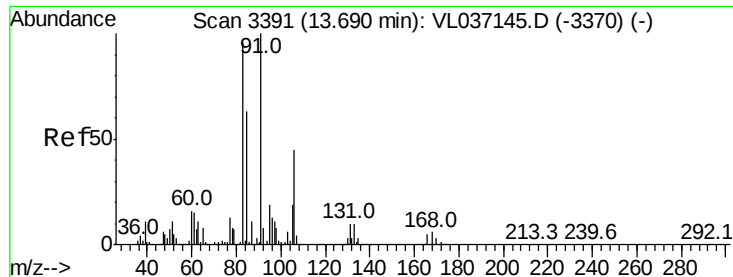
120 27.0 21.8 32.6



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: 7.387 ppbv

RT: 13.68 min Scan# 3389

Delta R.T. -0.01 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

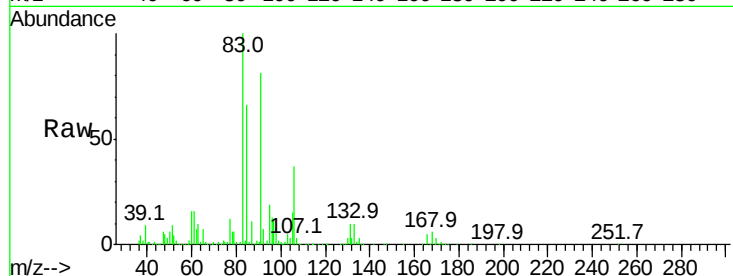
Tgt Ion: 83 Resp: 2868744

Ion Ratio Lower Upper

83 100

131 10.8 5.4 16.2

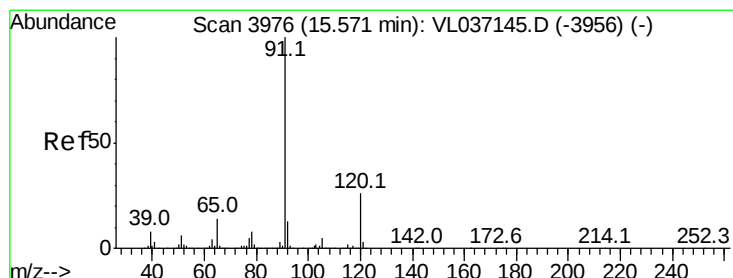
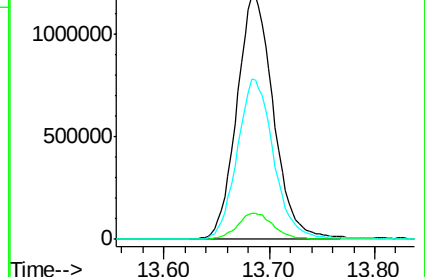
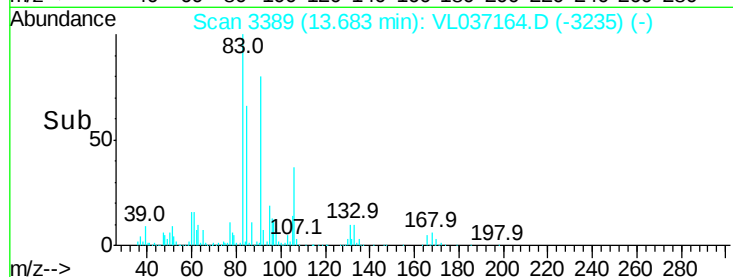
85 66.1 33.3 99.9



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: 7.649 ppbv

RT: 15.57 min Scan# 3976

Delta R.T. 0.00 min

Lab File: VL037164.D

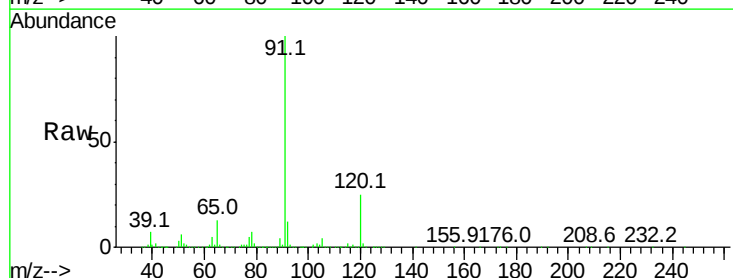
Acq: 16 Jun 2021 9:10

Tgt Ion: 120 Resp: 1660748

Ion Ratio Lower Upper

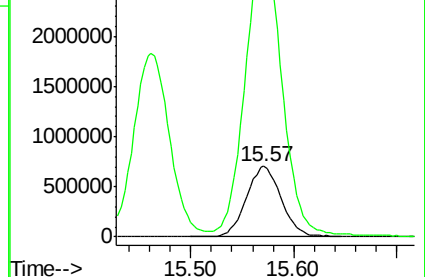
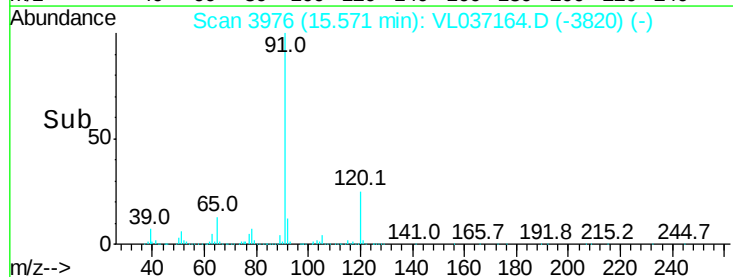
120 100

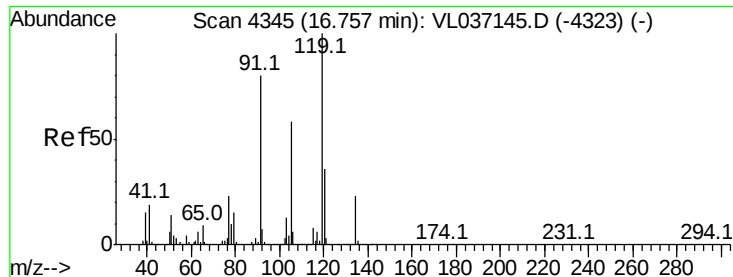
91 429.1 342.2 513.4



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

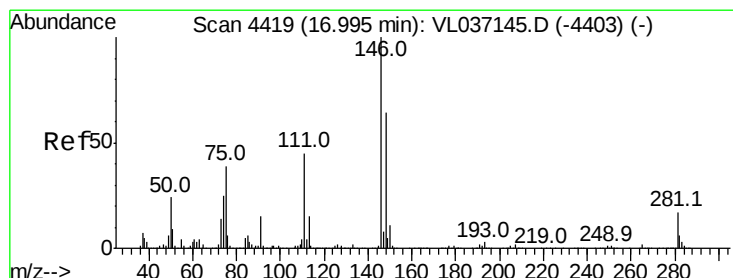
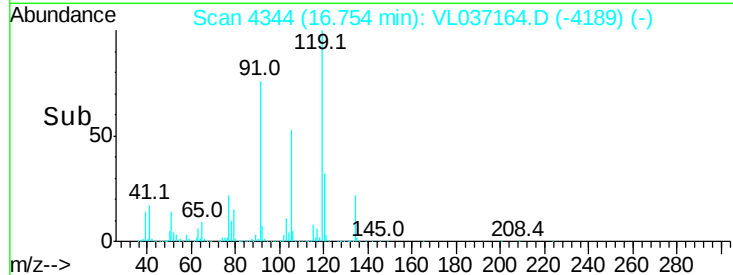
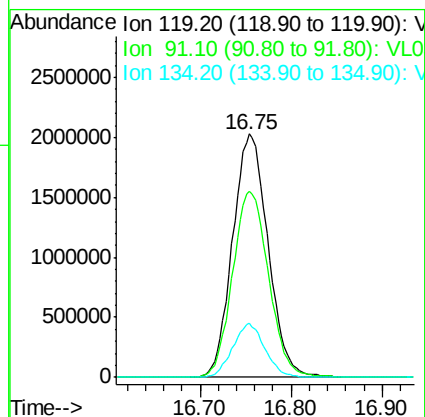
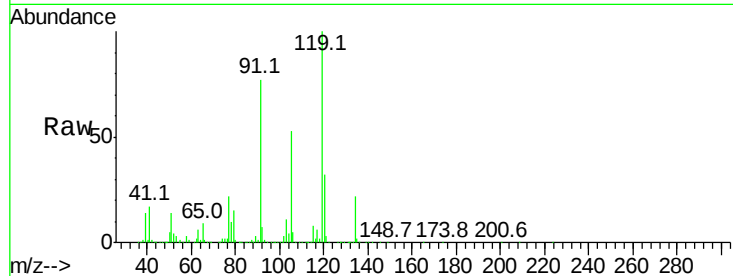




#65  
 tert-Butylbenzene  
 Concen: 7.106 ppbv  
 RT: 16.75 min Scan# 4344  
 Delta R.T. -0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

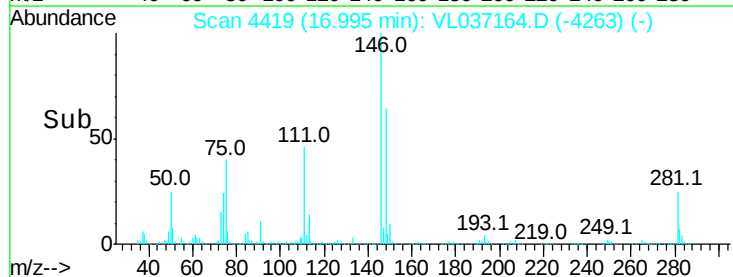
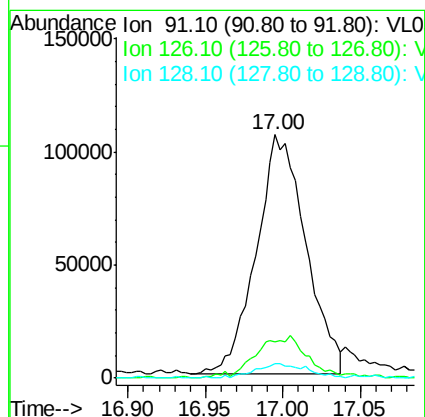
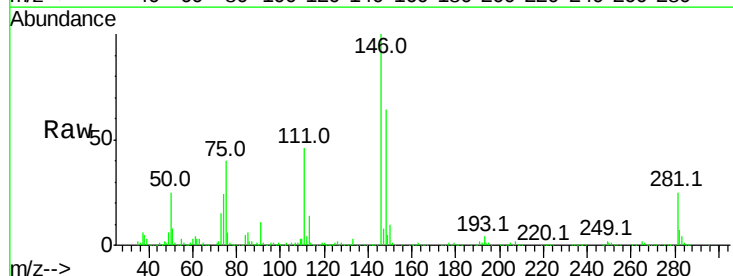
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

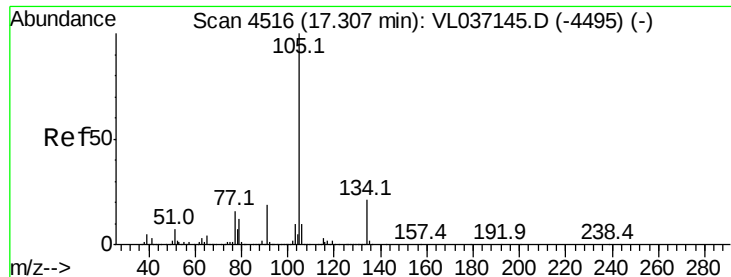
Tgt Ion:119 Resp: 5482923  
 Ion Ratio Lower Upper  
 119 100  
 91 78.2 62.8 94.2  
 134 20.3 16.5 24.7



#66  
 Benzyl Chloride  
 Concen: 7.008 ppbv  
 RT: 17.00 min Scan# 4419  
 Delta R.T. 0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

Tgt Ion: 91 Resp: 236018  
 Ion Ratio Lower Upper  
 91 100  
 126 19.4 16.4 24.6  
 128 7.1 5.7 8.5

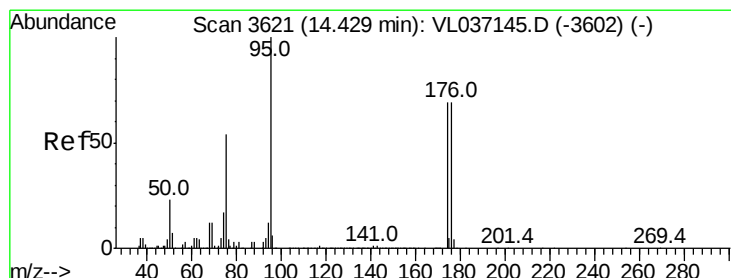
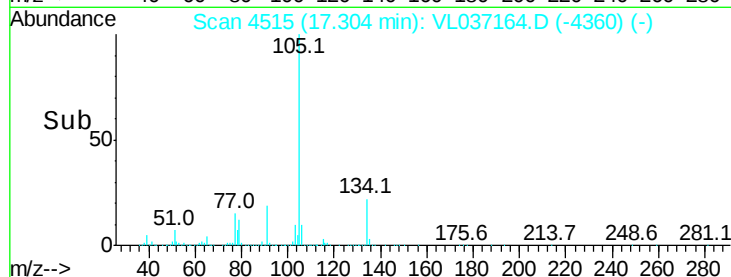
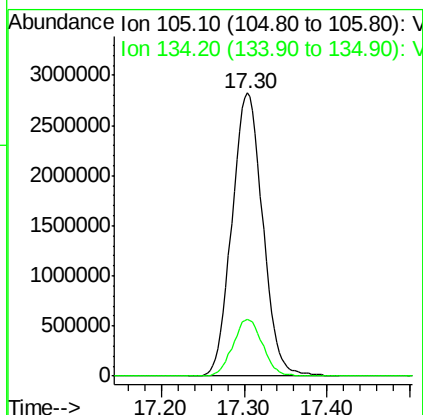
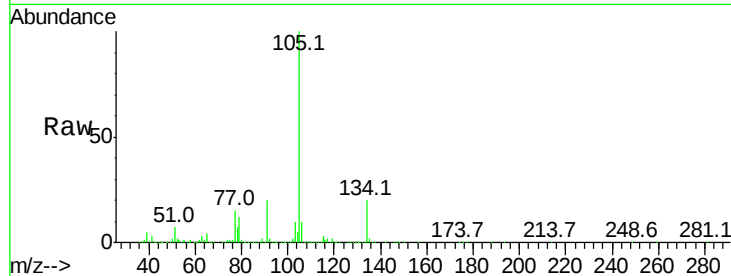




#67  
 sec-Butylbenzene  
 Concen: 7.110 ppbv  
 RT: 17.30 min Scan# 4515  
 Delta R.T. -0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

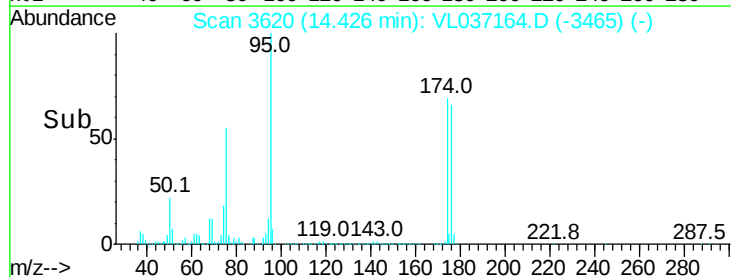
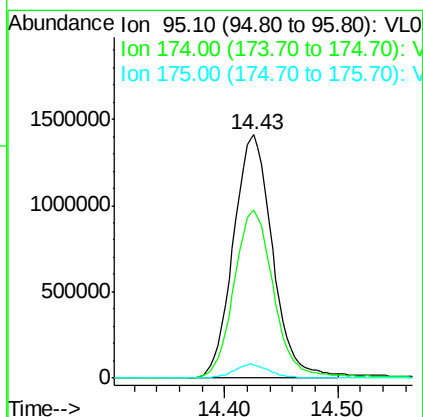
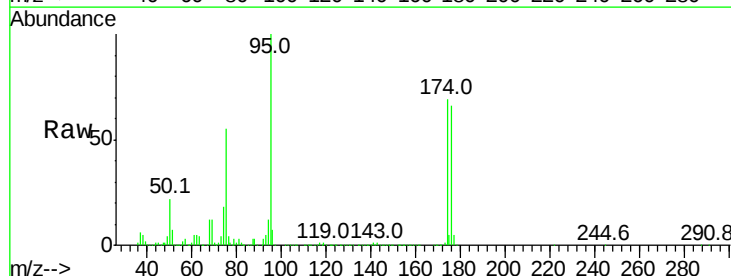
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

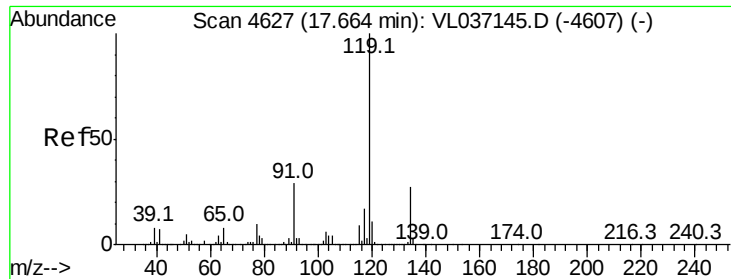
Tgt Ion: 105 Resp: 7288806  
 Ion Ratio Lower Upper  
 105 100  
 134 19.7 16.0 24.0



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.507 ppbv  
 RT: 14.43 min Scan# 3620  
 Delta R.T. -0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

Tgt Ion: 95 Resp: 3386230  
 Ion Ratio Lower Upper  
 95 100  
 174 71.2 57.6 86.4  
 175 5.5 4.4 6.6



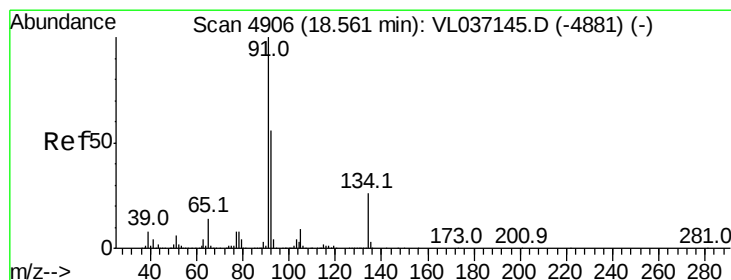
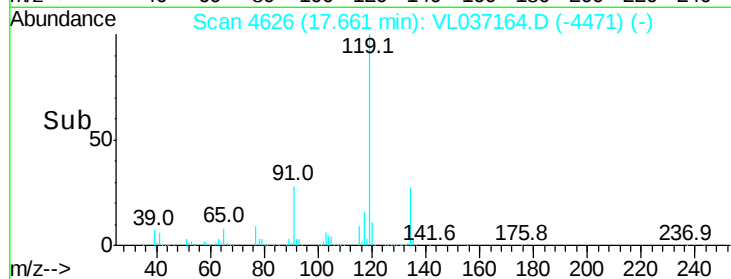
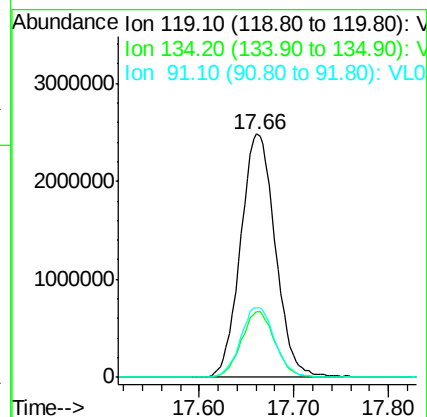
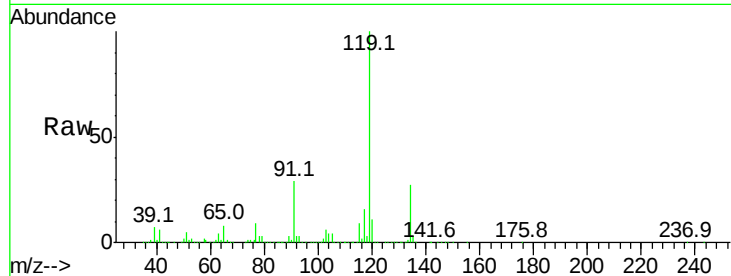


#69  
 p-Isopropyltoluene  
 Concen: 7.378 ppbv  
 RT: 17.66 min Scan# 4626  
 Delta R.T. -0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tgt Ion: 119 Resp: 6322967  

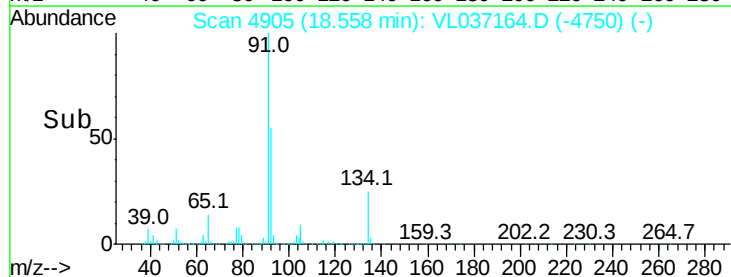
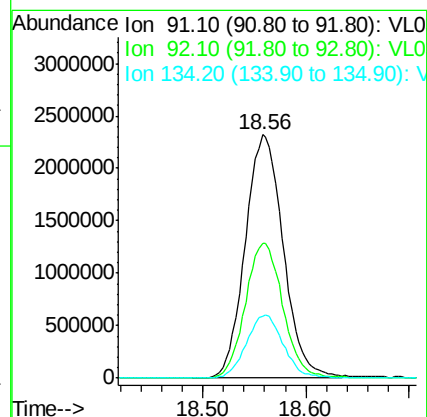
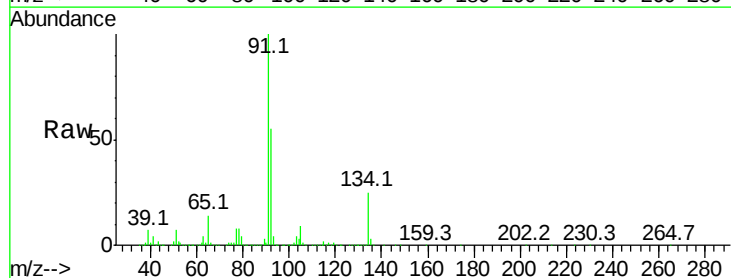
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 119 | 100   |       |       |
| 134 | 26.1  | 21.2  | 31.8  |
| 91  | 28.3  | 22.9  | 34.3  |

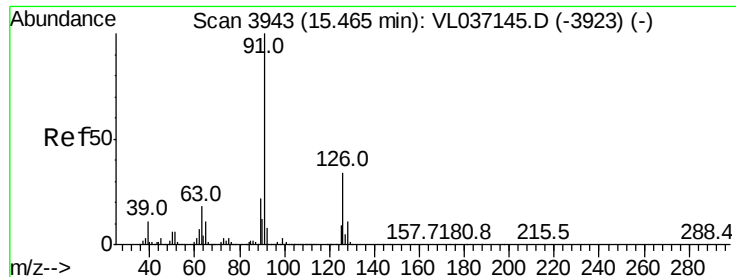


#70  
 n-Butylbenzene  
 Concen: 7.584 ppbv  
 RT: 18.56 min Scan# 4905  
 Delta R.T. -0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

Tgt Ion: 91 Resp: 5946618  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 55.0  | 44.0  | 66.0  |
| 134 | 25.3  | 20.4  | 30.6  |





#71

2-Chlorotoluene

Concen: 7.308 ppbv

RT: 15.46 min Scan# 3942

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

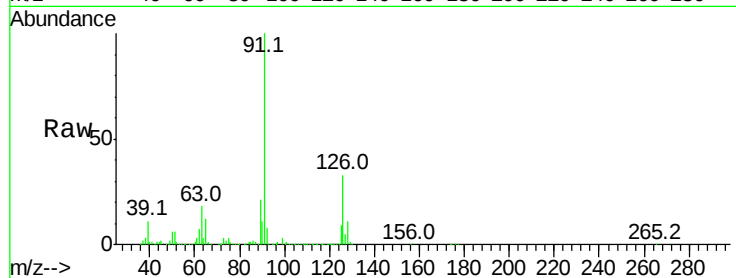
VSTDICCC010

Tgt Ion: 91 Resp: 4438348

Ion Ratio Lower Upper

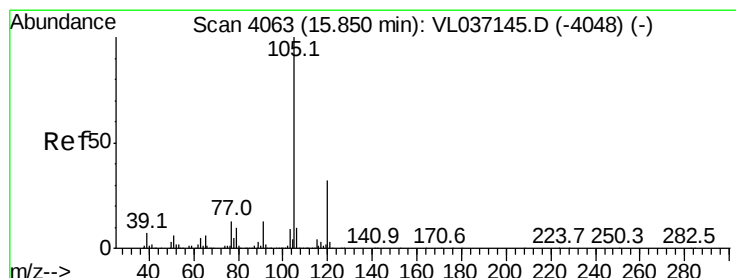
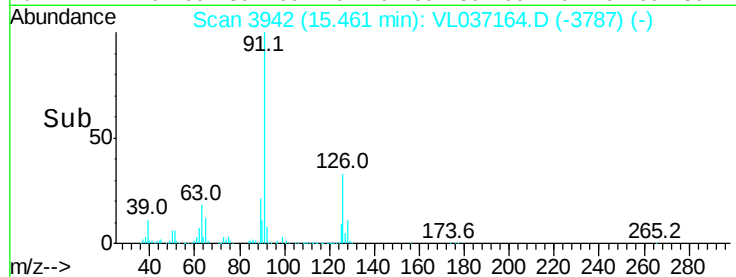
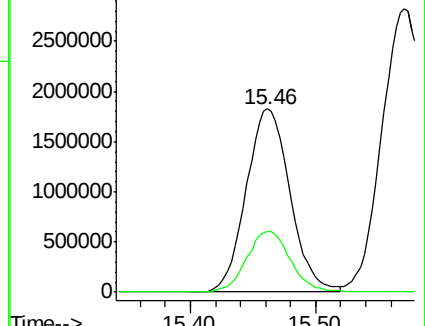
91 100

126 33.8 13.4 53.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 7.529 ppbv

RT: 15.85 min Scan# 4062

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Tgt Ion: 105 Resp: 5224456

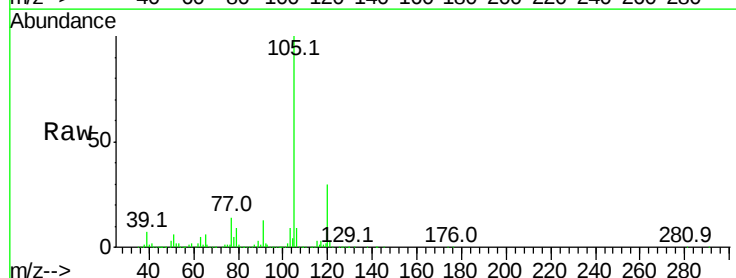
Ion Ratio Lower Upper

105 100

120 30.9 25.1 37.7

91 12.8 10.3 15.5

77 13.8 11.0 16.6

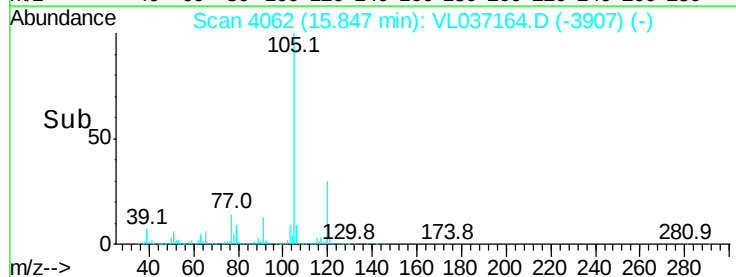
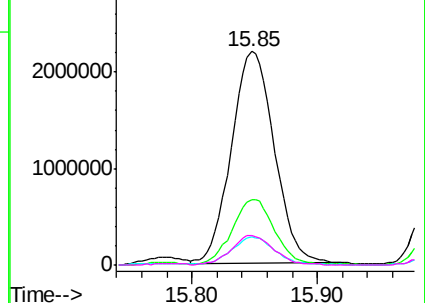


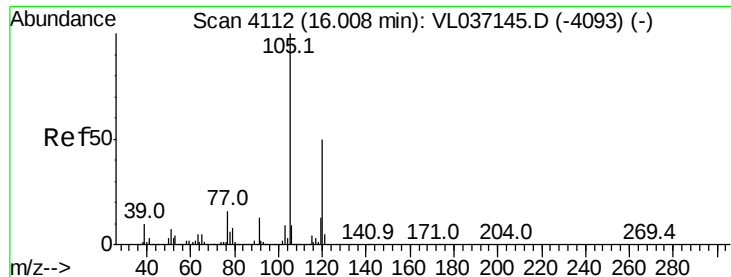
Abundance Ion 105.10 (104.80 to 105.80): V

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: 7.223 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

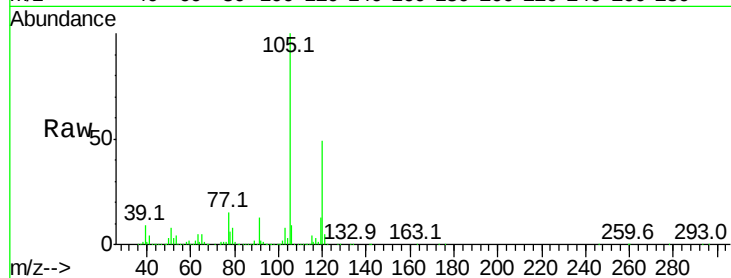
VSTDICCC010

Tgt Ion:105 Resp: 4753633

Ion Ratio Lower Upper

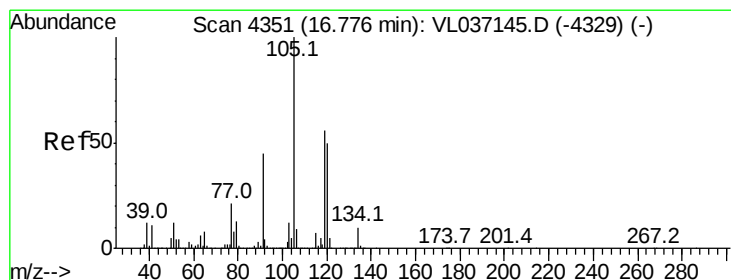
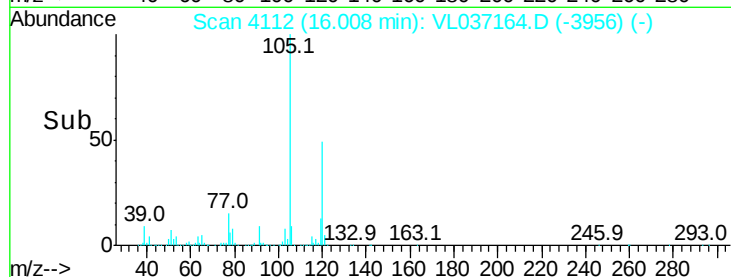
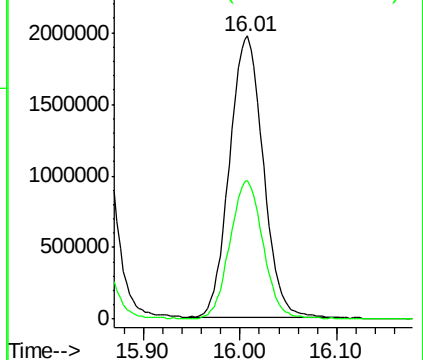
105 100

120 49.3 39.7 59.5



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: 7.426 ppbv

RT: 16.77 min Scan# 4350

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Tgt Ion:105 Resp: 4972523

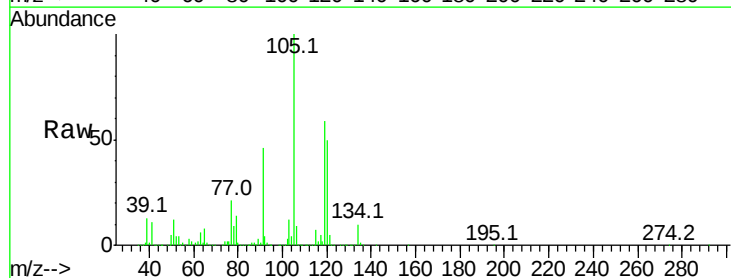
Ion Ratio Lower Upper

105 100

120 49.8 39.7 59.5

91 46.2 35.8 53.8

77 21.2 16.7 25.1

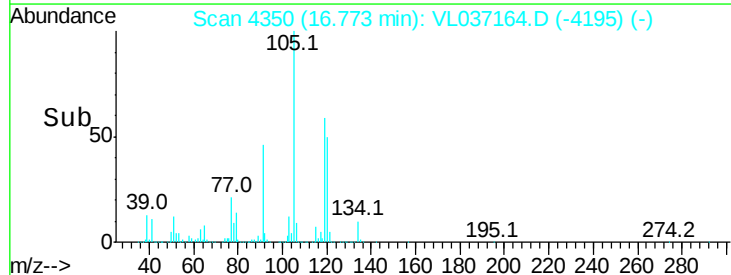
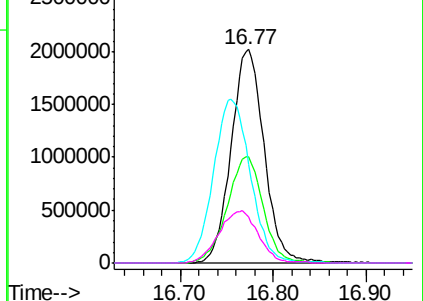


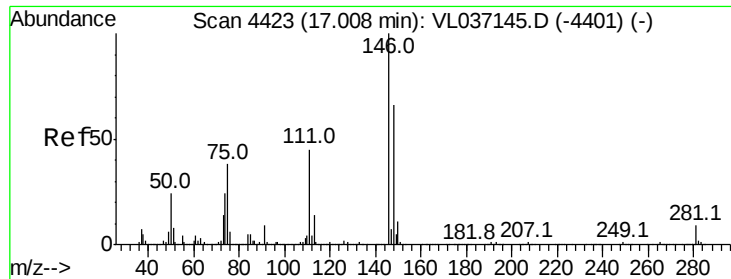
Abundance Ion 105.10 (104.80 to 105.80): V

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

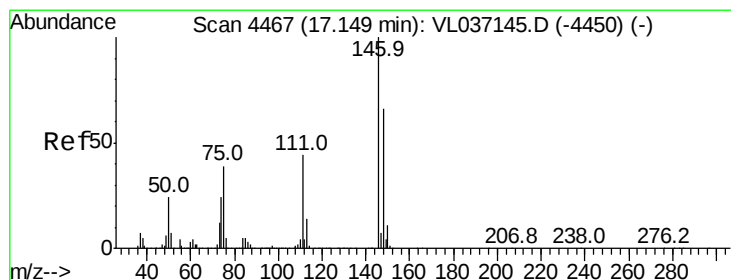
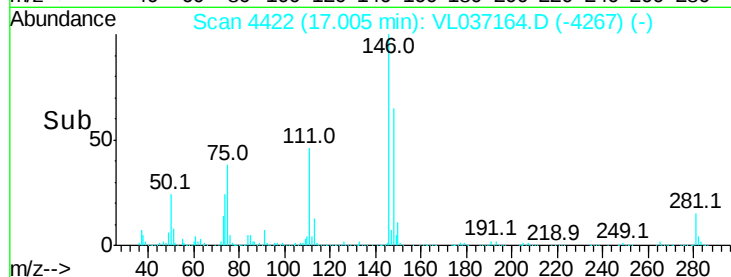
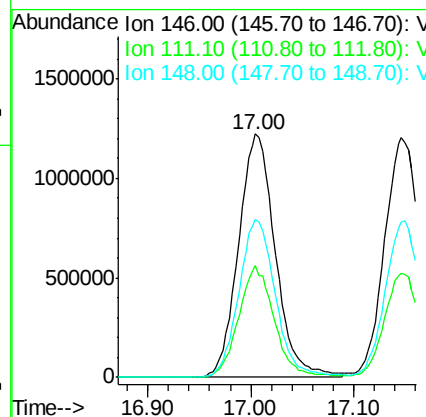
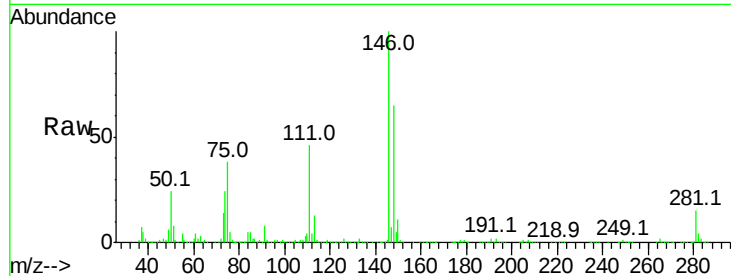




#75  
 1,3-Dichlorobenzene  
 Concen: 7.346 ppbv  
 RT: 17.00 min Scan# 4422  
 Delta R.T. -0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

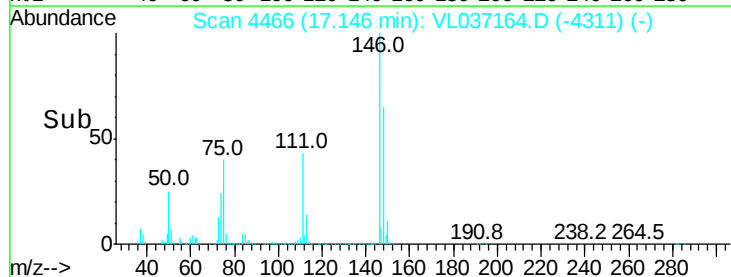
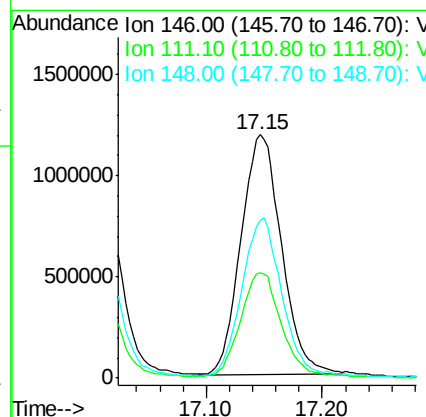
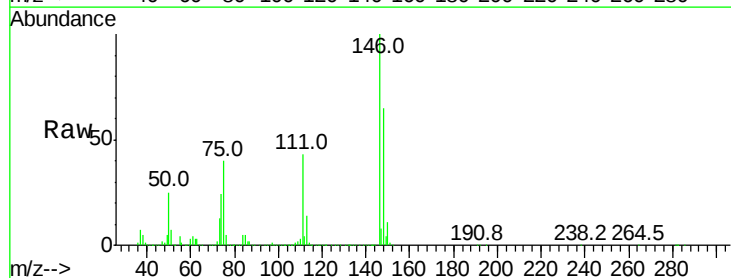
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

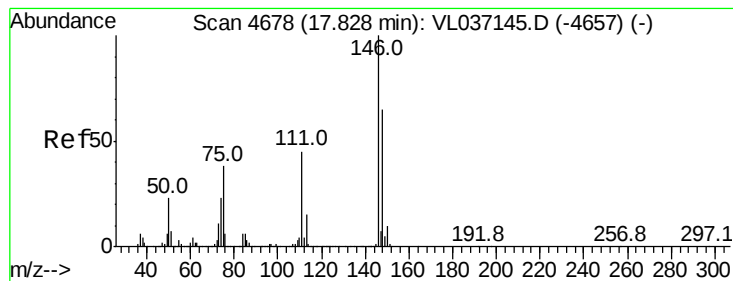
Tgt Ion:146 Resp: 3028936  
 Ion Ratio Lower Upper  
 146 100  
 111 44.4 22.4 67.2  
 148 64.8 32.3 96.9



#76  
 1,4-Dichlorobenzene  
 Concen: 7.046 ppbv  
 RT: 17.15 min Scan# 4466  
 Delta R.T. -0.00 min  
 Lab File: VL037164.D  
 Acq: 16 Jun 2021 9:10

Tgt Ion:146 Resp: 2885468  
 Ion Ratio Lower Upper  
 146 100  
 111 45.3 21.9 65.5  
 148 67.4 32.4 97.0





#77

1,2-Dichlorobenzene

Concen: 7.028 ppbv

RT: 17.82 min Scan# 4677

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

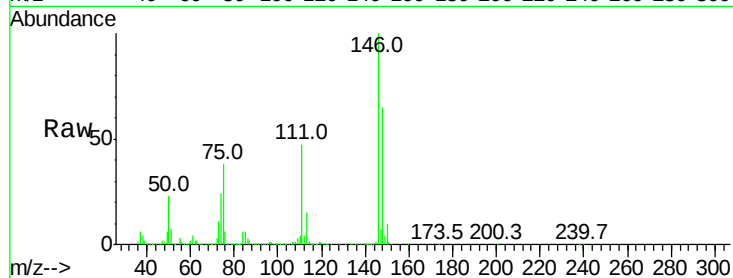
Tgt Ion:146 Resp: 2857393

Ion Ratio Lower Upper

146 100

111 46.5 23.1 69.3

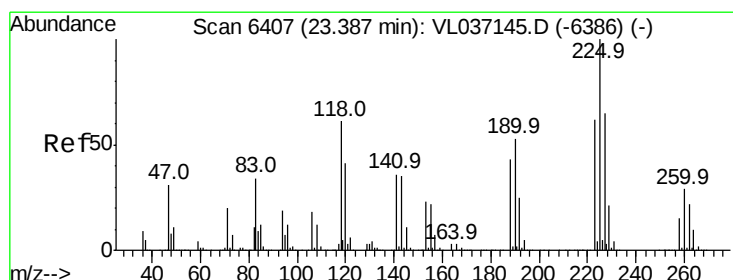
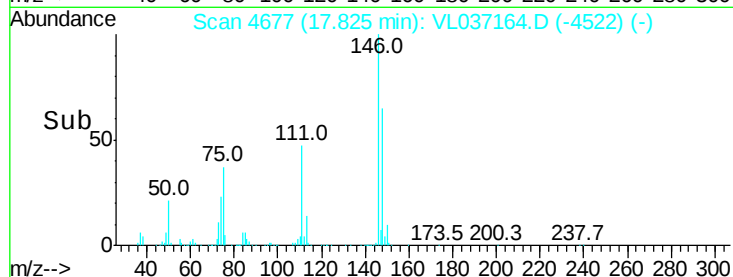
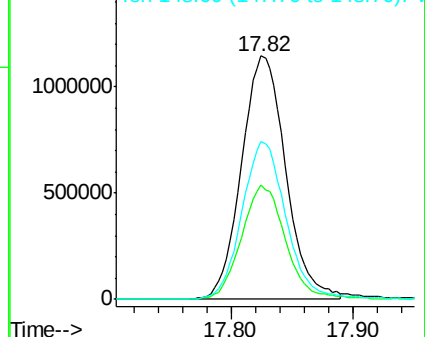
148 64.7 32.5 97.5



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: 7.526 ppbv

RT: 23.38 min Scan# 6406

Delta R.T. -0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

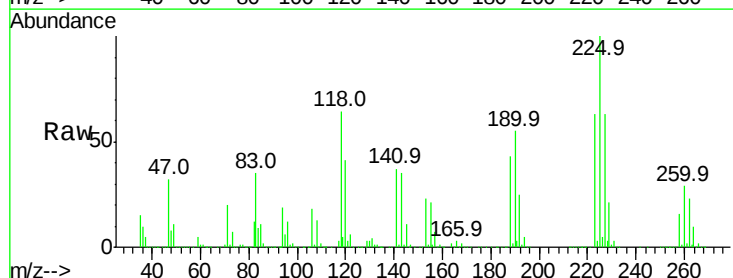
Tgt Ion:225 Resp: 2169101

Ion Ratio Lower Upper

225 100

223 64.8 52.2 78.2

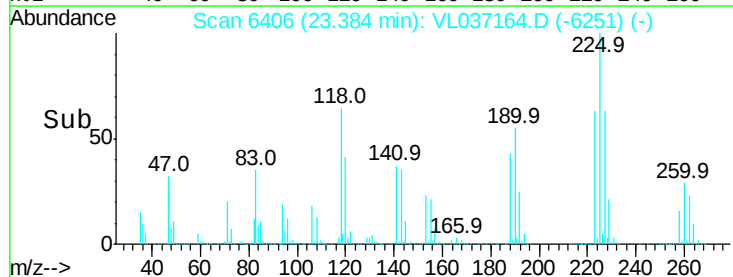
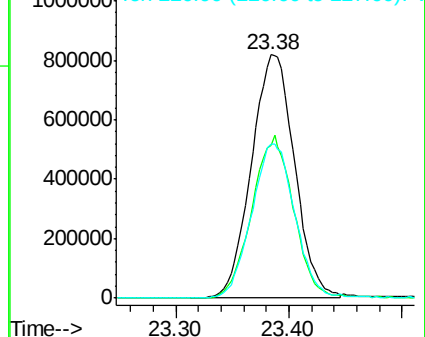
227 64.2 51.5 77.3

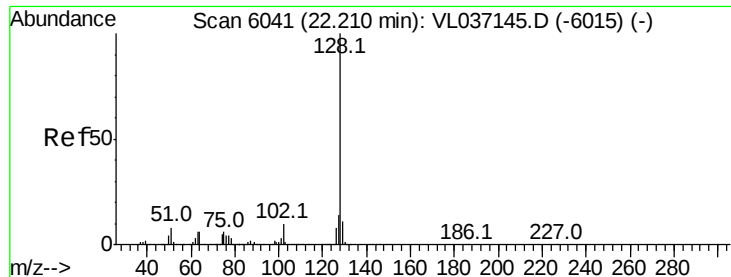


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

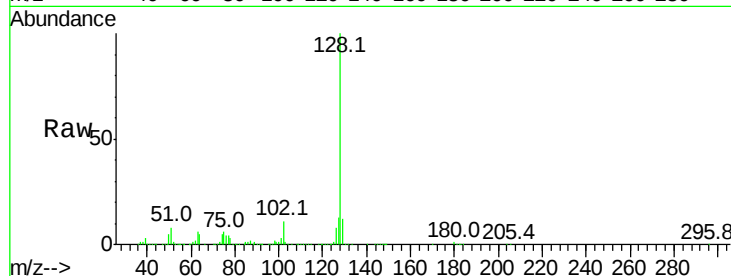




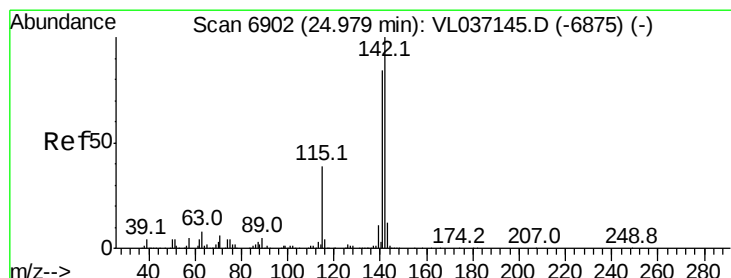
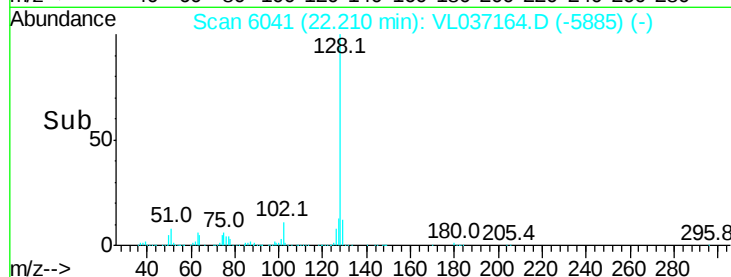
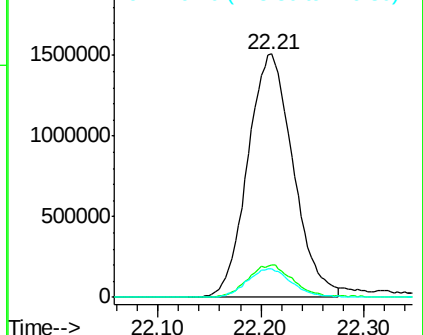
#79  
Naphthalene  
Concen: 11.451 ppbv  
RT: 22.21 min Scan# 6041  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion:128 Resp: 4615484  
Ion Ratio Lower Upper  
128 100  
127 13.4 10.9 16.3  
129 11.6 9.0 13.4

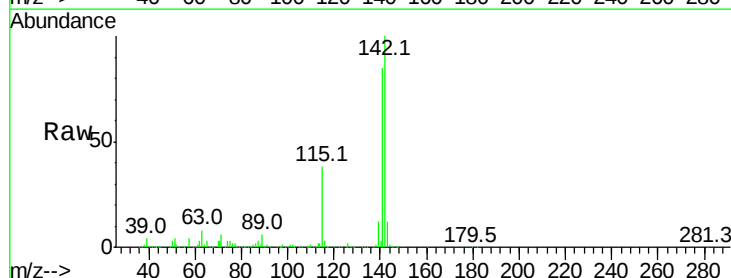


Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V

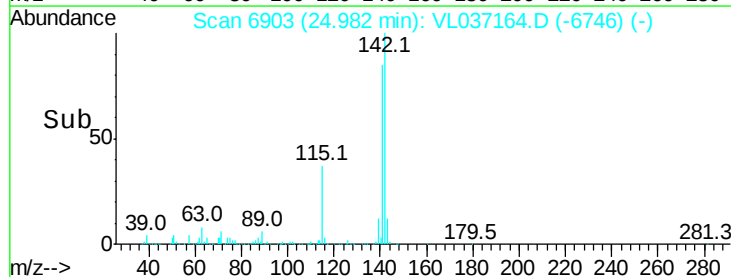
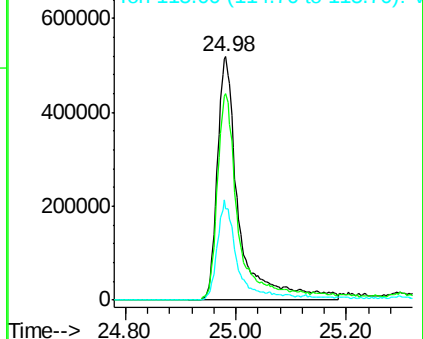


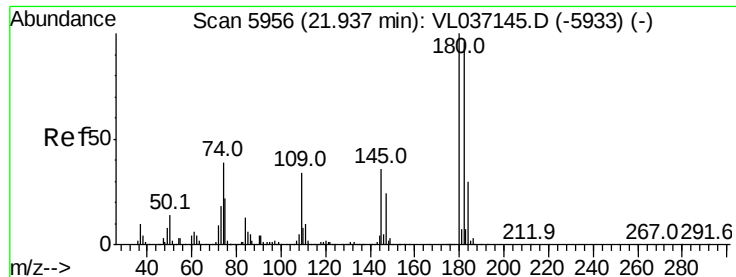
#80  
Naphthalene, 2-methyl-  
Concen: 14.464 ppbv  
RT: 24.98 min Scan# 6903  
Delta R.T. 0.00 min  
Lab File: VL037164.D  
Acq: 16 Jun 2021 9:10

Tgt Ion:142 Resp: 1410446  
Ion Ratio Lower Upper  
142 100  
141 79.6 66.7 100.1  
115 38.2 32.2 48.2



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: 9.765 ppbv

RT: 21.94 min Scan# 5957

Delta R.T. 0.00 min

Lab File: VL037164.D

Acq: 16 Jun 2021 9:10

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

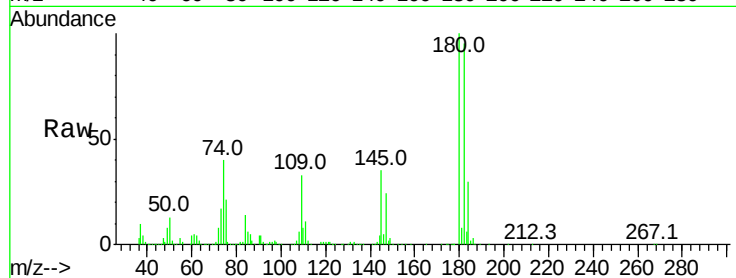
Tgt Ion:180 Resp: 2503569

Ion Ratio Lower Upper

180 100

182 99.1 79.8 119.6

184 30.9 25.1 37.7



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

