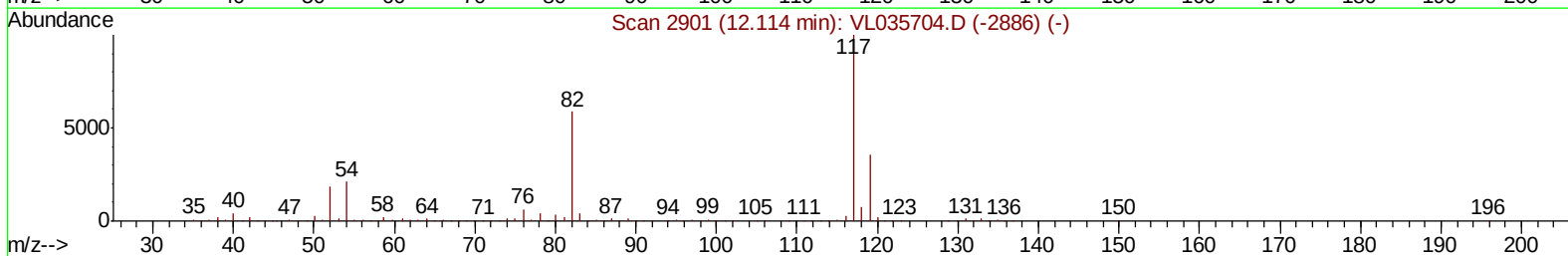
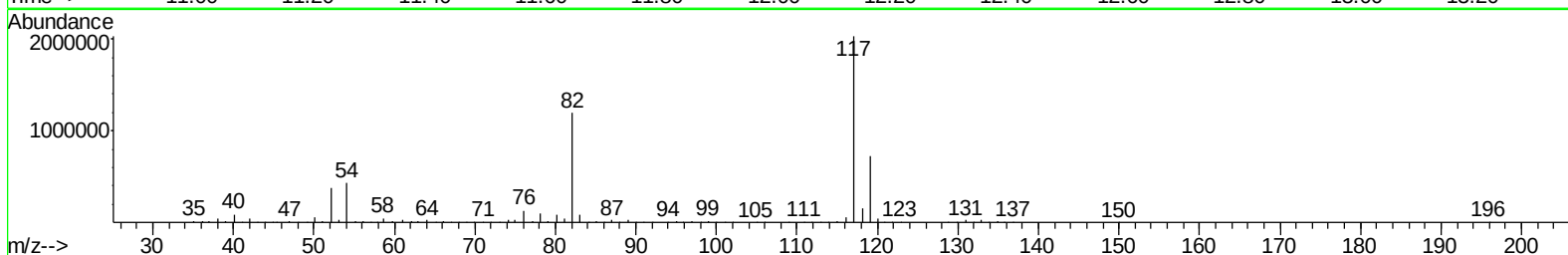
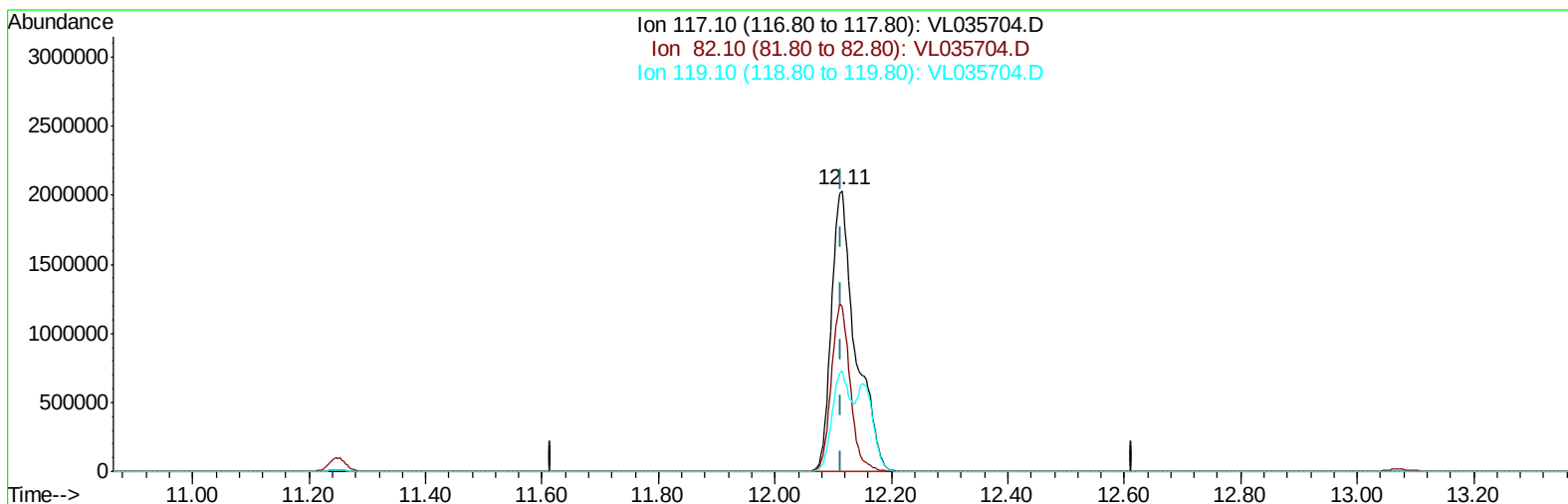


Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092320\  
Data File : VL035704.D  
Acq On : 23 Sep 2020 3:21  
Operator : SY/AP  
Sample : VSTDICCC010  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC0.5

Quant Time: Sep 23 05:32:35 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Sep 23 05:25:46 2020  
QLast Update : Wed Sep 23 05:25:46 2020  
Response via : Initial Calibration



TIC: VL035704.D

(55) Chlorobenzene-d5 (I)

12.114min (0.000) 10.00ppbv

response 5884158

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 117.10 | 100   | 100    |
| 82.10  | 57.60 | 46.80  |
| 119.10 | 35.00 | 26.73# |
| 0.00   | 0.00  | 0.00   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\  
 Data File : VL035707.D  
 Acq On : 23 Sep 2020 5:16  
 Operator : SY/AP  
 Sample : VSTDIC0.5  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Sep 23 05:44:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Sep 23 05:25:46 2020  
 QLast Update : Wed Sep 23 05:25:46 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1275832  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.19  | 114  | 4785490  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 4682170  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 3595037  | 10.69    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.90% |

| Target Compounds               | R.T. | QIon | Response | Conc  | Units  | Ovalue |
|--------------------------------|------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 132613   | 0.601 | ppbv   | 96     |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 74235    | 0.532 | ppbv   | 96     |
| 4) Chloromethane               | 3.14 | 50   | 38467    | 0.515 | ppbv # | 87     |
| 5) Vinyl Chloride              | 3.26 | 62   | 43557    | 0.470 | ppbv   | 99     |
| 6) Bromomethane                | 3.47 | 94   | 39043    | 0.507 | ppbv   | 91     |
| 7) Chloroethane                | 3.56 | 64   | 16881    | 0.518 | ppbv   | 94     |
| 8) Dichlorotetrafluoroethane   | 3.19 | 85   | 142670   | 0.539 | ppbv   | 96     |
| 9) Propene                     | 3.01 | 41   | 24618    | 0.459 | ppbv   | 98     |
| 10) Heptane                    | 8.14 | 43   | 58646    | 0.400 | ppbv   | 98     |
| 11) Trichlorofluoromethane     | 3.95 | 101  | 161011   | 0.506 | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.49 | 101  | 118971   | 0.496 | ppbv   | 99     |
| 13) Ethanol                    | 3.61 | 45   | 4673     | 0.351 | ppbv # | 38     |
| 14) Bromoethene                | 3.74 | 108  | 46235    | 0.451 | ppbv   | 98     |
| 15) Acetone                    | 3.86 | 43   | 80246    | 0.579 | ppbv   | 89     |
| 16) 1,3-Butadiene              | 3.33 | 39   | 23392    | 0.449 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.31 | 59   | 80328    | 0.482 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.29 | 96   | 47894    | 0.454 | ppbv   | 93     |
| 19) Isopropyl Alcohol          | 3.98 | 45   | 43087    | 0.529 | ppbv # | 90     |
| 20) Methylene Chloride         | 4.35 | 84   | 60398    | 0.579 | ppbv   | 96     |
| 21) Allyl Chloride             | 4.42 | 41   | 31999    | 0.488 | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96   | 52562    | 0.468 | ppbv   | 95     |
| 23) Vinyl Acetate              | 5.08 | 43   | 87199    | 0.489 | ppbv # | 95     |
| 24) 1,1-Dichloroethane         | 5.02 | 63   | 96586    | 0.523 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.69 | 43   | 124521   | 0.500 | ppbv   | 99     |
| 26) Hexane                     | 5.70 | 57   | 64440    | 0.457 | ppbv   | 89     |
| 27) Carbon Disulfide           | 4.56 | 76   | 90605    | 0.451 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether    | 5.05 | 73   | 95700    | 0.399 | ppbv   | 99     |
| 29) Chloroform                 | 5.76 | 83   | 142040   | 0.499 | ppbv   | 98     |
| 30) Cyclohexane                | 7.14 | 84   | 48694    | 0.328 | ppbv # | 26     |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61   | 57103    | 0.400 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.52 | 97   | 119144   | 0.433 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.26 | 43   | 72358    | 0.497 | ppbv   | 100    |
| 35) Carbon Tetrachloride       | 7.03 | 117  | 120830   | 0.500 | ppbv   | 99     |
| 36) Benzene                    | 6.90 | 78   | 139598   | 0.446 | ppbv   | 94     |
| 37) 1,2-Dichloroethane         | 6.31 | 62   | 81430    | 0.540 | ppbv   | 99     |
| 38) Trichloroethene            | 7.85 | 130  | 72450    | 0.403 | ppbv   | 96     |
| 39) 1,2-Dichloropropane        | 7.63 | 63   | 56059    | 0.527 | ppbv   | 92     |
| 40) 1,4-Dioxane                | 7.88 | 88   | 14470    | 0.279 | ppbv # | 1      |
| 41) Tetrahydrofuran            | 6.08 | 42   | 30970    | 0.402 | ppbv   | 90     |
| 42) Bromodichloromethane       | 7.80 | 83   | 122968   | 0.506 | ppbv   | 95     |
| 43) Methyl Methacrylate        | 8.03 | 69   | 48544    | 0.398 | ppbv   | 97     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\  
 Data File : VL035707.D  
 Acq On : 23 Sep 2020 5:16  
 Operator : SY/AP  
 Sample : VSTDIC0.5  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Sep 23 05:44:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Sep 23 05:25:46 2020  
 QLast Update : Wed Sep 23 05:25:46 2020  
 Response via : Initial Calibration

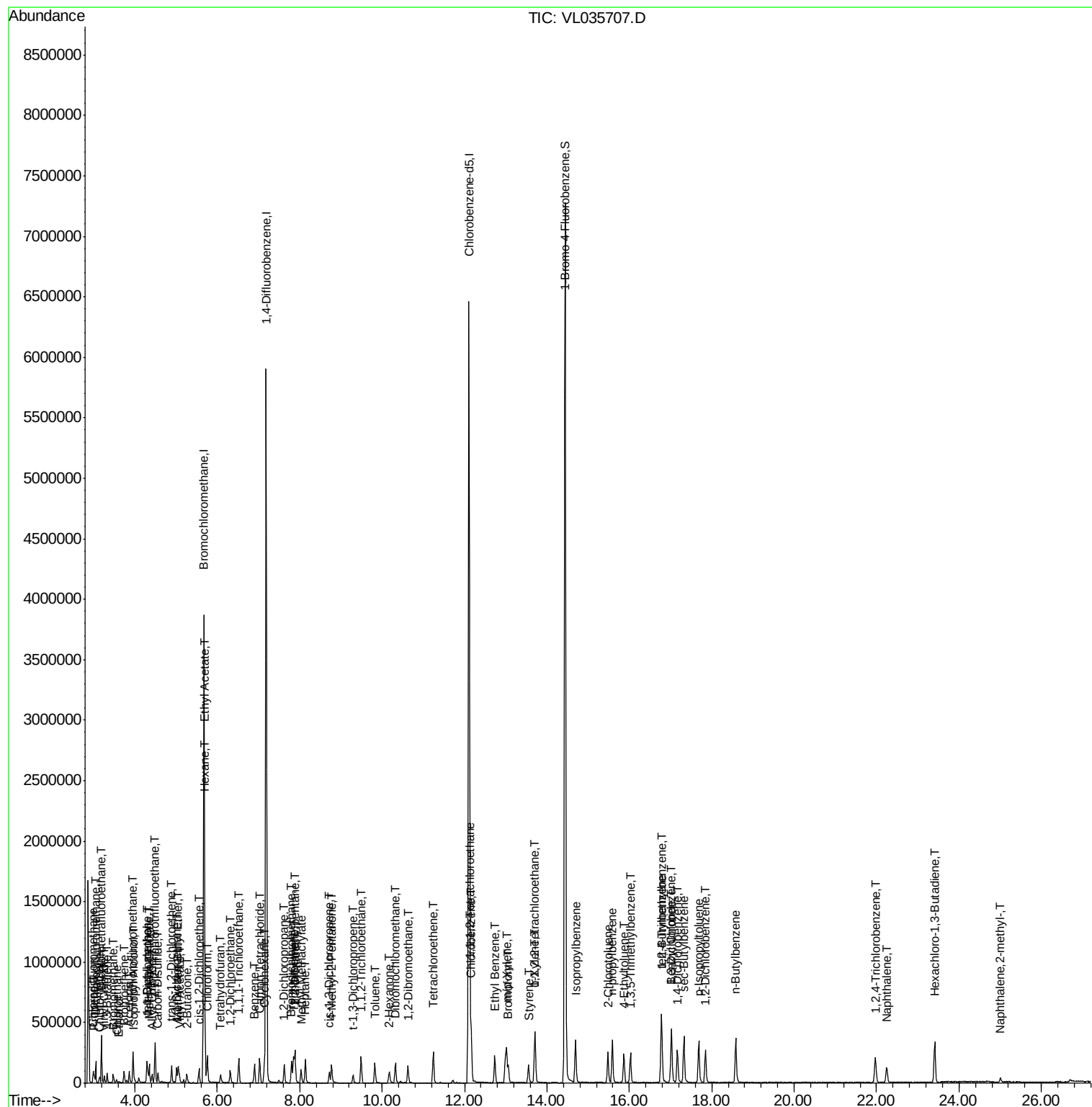
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.88  | 57   | 204114   | 0.489 | ppbv   | 96       |
| 45) t-1,3-Dichloropropene     | 9.29  | 75   | 43476    | 0.353 | ppbv   | 95       |
| 46) cis-1,3-Dichloropropene   | 8.72  | 75   | 57567    | 0.376 | ppbv   | 92       |
| 47) 1,1,2-Trichloroethane     | 9.49  | 97   | 81207    | 0.521 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.33 | 129  | 105481   | 0.434 | ppbv   | 98       |
| 49) Bromoform                 | 13.07 | 173  | 81981    | 0.378 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 8.77  | 43   | 98431    | 0.465 | ppbv   | 93       |
| 51) 2-Hexanone                | 10.17 | 43   | 69711    | 0.403 | ppbv # | 92       |
| 52) Tetrachloroethene         | 11.24 | 164  | 69659    | 0.391 | ppbv   | 94       |
| 53) Toluene                   | 9.82  | 91   | 143767   | 0.366 | ppbv   | 93       |
| 54) 1,2-Dibromoethane         | 10.63 | 107  | 111137   | 0.453 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.15 | 131  | 46555    | 0.242 | ppbv # | 3        |
| 57) Chlorobenzene             | 12.17 | 112  | 189694   | 0.543 | ppbv # | 93       |
| 58) Ethyl Benzene             | 12.74 | 91   | 191943   | 0.390 | ppbv   | 95       |
| 59) m/p-Xylene                | 13.02 | 91   | 208121   | 0.503 | ppbv # | 51       |
| 60) o-Xylene                  | 13.72 | 91   | 181920   | 0.437 | ppbv   | 95       |
| 61) Styrene                   | 13.55 | 104  | 99662    | 0.317 | ppbv   | 96       |
| 62) Isopropylbenzene          | 14.69 | 105  | 305698   | 0.462 | ppbv   | 93       |
| 63) 1,1,2,2-Tetrachloroethane | 13.70 | 83   | 177986   | 0.553 | ppbv   | 98       |
| 64) n-propylbenzene           | 15.59 | 120  | 80466    | 0.401 | ppbv # | 63       |
| 65) tert-Butylbenzene         | 16.78 | 119  | 251850   | 0.411 | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.02 | 91   | 59084    | 0.375 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 17.33 | 105  | 369474   | 0.450 | ppbv   | 92       |
| 69) p-Isopropyltoluene        | 17.68 | 119  | 274285   | 0.384 | ppbv   | 95       |
| 70) n-Butylbenzene            | 18.58 | 91   | 296697   | 0.427 | ppbv   | 90       |
| 71) 2-Chlorotoluene           | 15.48 | 91   | 199555   | 0.412 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 15.87 | 105  | 196340   | 0.375 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 16.03 | 105  | 192774   | 0.398 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 16.79 | 105  | 241517   | 0.453 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 17.03 | 146  | 179958   | 0.465 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.16 | 146  | 79599    | 0.209 | ppbv # | 24       |
| 77) 1,2-Dichlorobenzene       | 17.85 | 146  | 163766   | 0.437 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.41 | 225  | 87724    | 0.375 | ppbv   | 99       |
| 79) Naphthalene               | 22.25 | 128  | 90841    | 0.159 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 25.00 | 142  | 24230    | 0.130 | ppbv   | 92       |
| 81) 1,2,4-Trichlorobenzene    | 21.96 | 180  | 42580    | 0.127 | ppbv # | 12       |

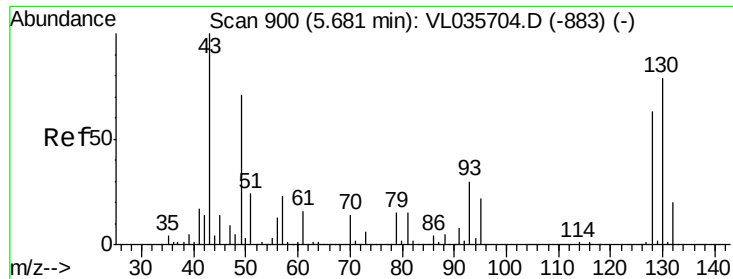
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092320\  
Data File : VL035707.D  
Acq On : 23 Sep 2020 5:16  
Operator : SY/AP  
Sample : VSTDICC0.5  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Quant Time: Sep 23 05:44:32 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Sep 23 05:25:46 2020  
QLast Update : Wed Sep 23 05:25:46 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

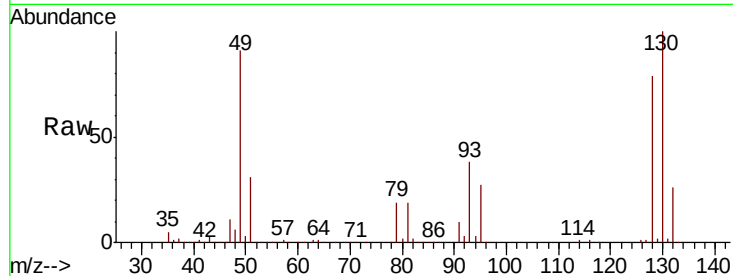
Tot Ion: 49 Resp: 1275832

Ion Ratio Lower Upper

49 100

128 84.5 43.1 129.4

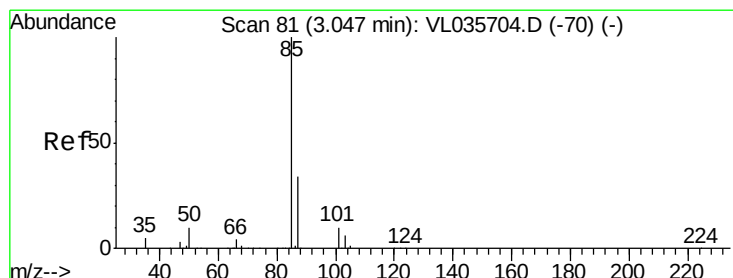
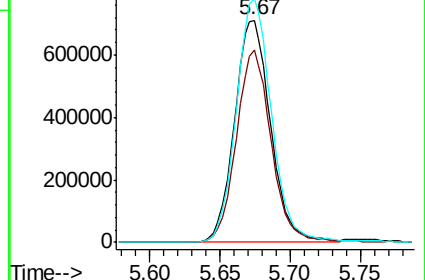
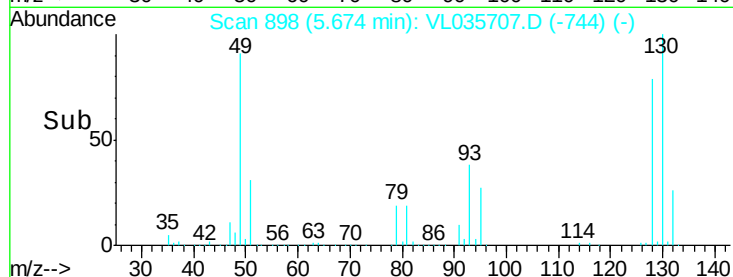
130 108.2 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.601 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035707.D

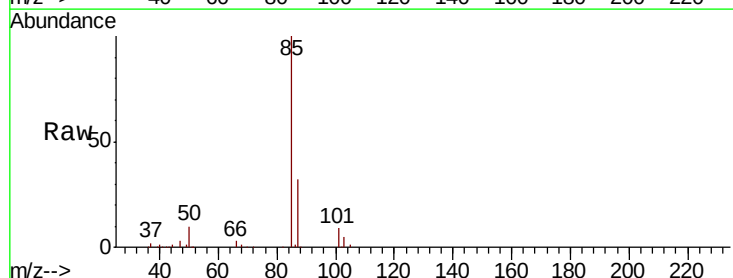
Acq: 23 Sep 2020 5:16

Tgt Ion: 85 Resp: 132613

Ion Ratio Lower Upper

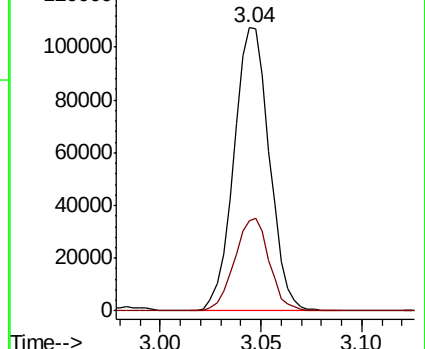
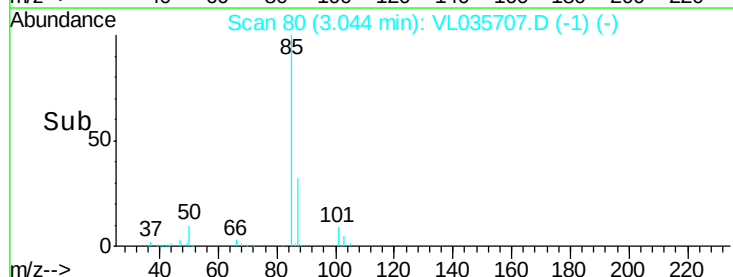
85 100

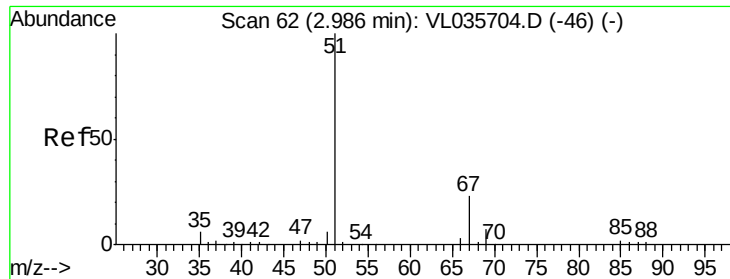
87 31.6 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.532 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

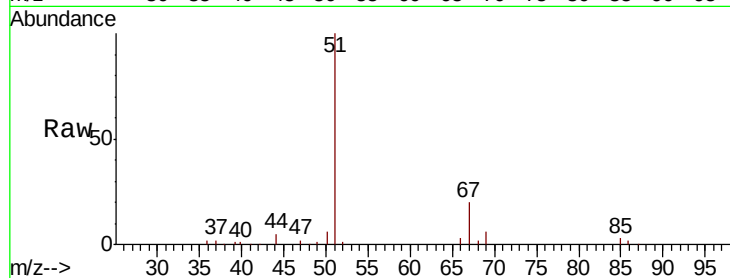
VSTDIC0.5

Tot Ion: 51 Resp: 74235

Ion Ratio Lower Upper

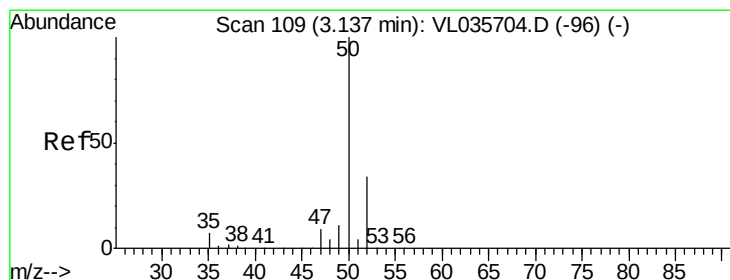
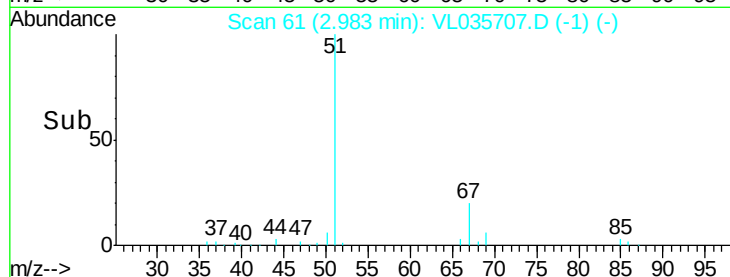
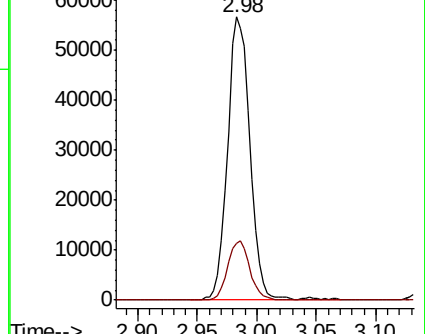
51 100

67 20.4 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.515 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL035707.D

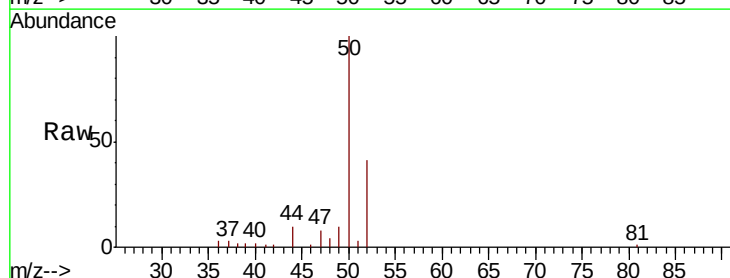
Acq: 23 Sep 2020 5:16

Tgt Ion: 50 Resp: 38467

Ion Ratio Lower Upper

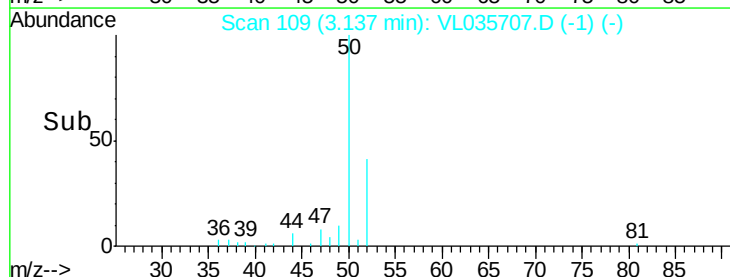
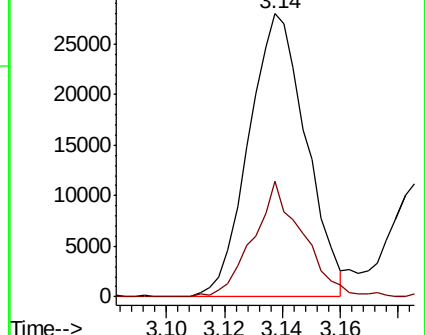
50 100

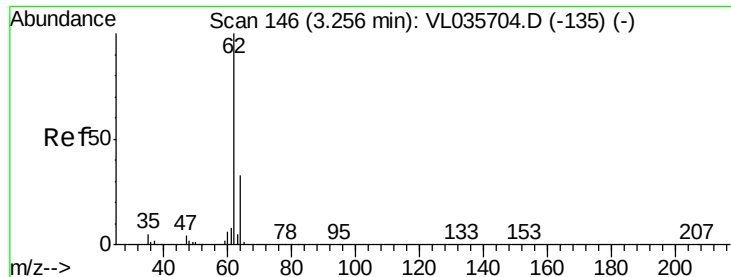
52 40.7 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.470 ppbv

RT: 3.26 min Scan# 146

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

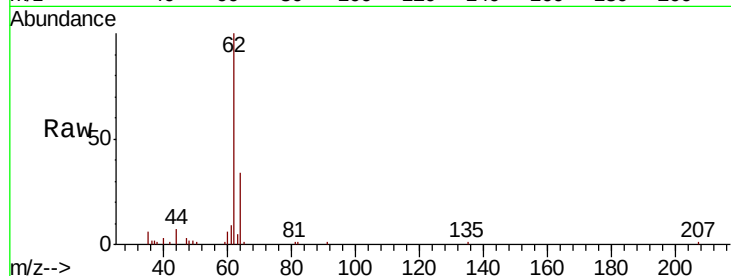
VSTDIC0.5

Tot Ion: 62 Resp: 43557

Ion Ratio Lower Upper

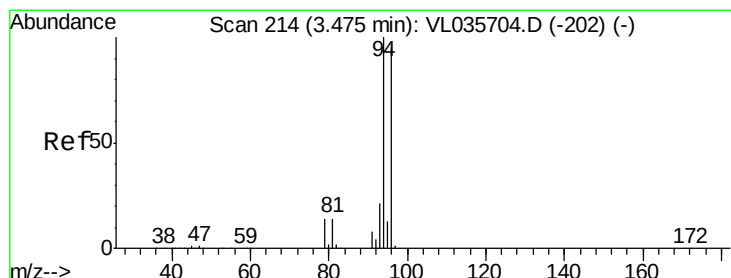
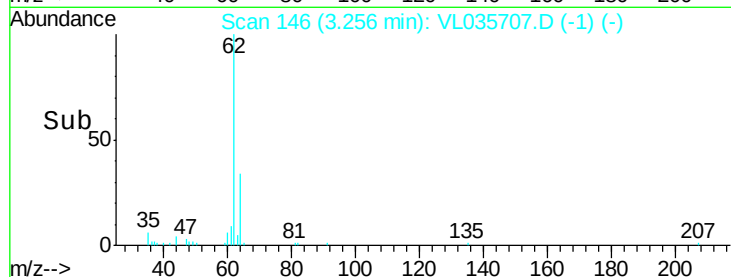
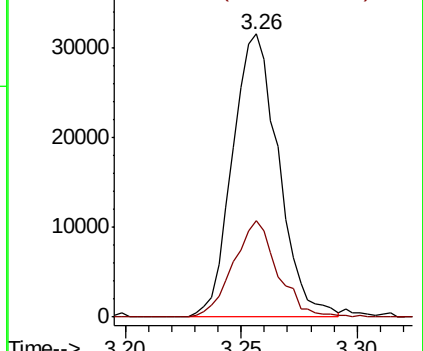
62 100

64 34.0 26.8 40.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.507 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.00 min

Lab File: VL035707.D

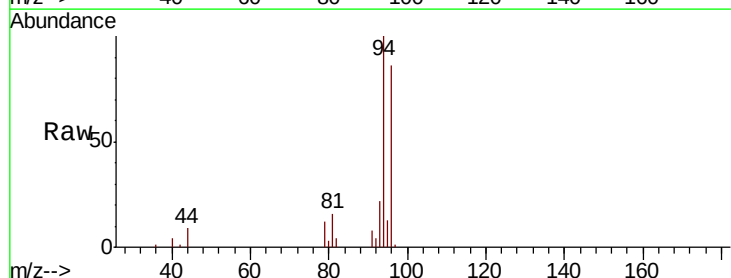
Acq: 23 Sep 2020 5:16

Tgt Ion: 94 Resp: 39043

Ion Ratio Lower Upper

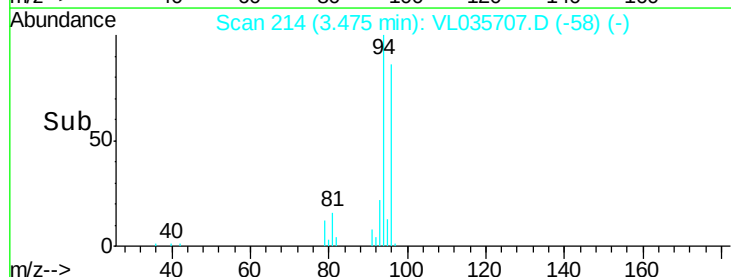
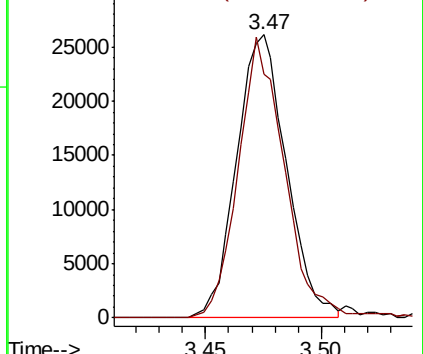
94 100

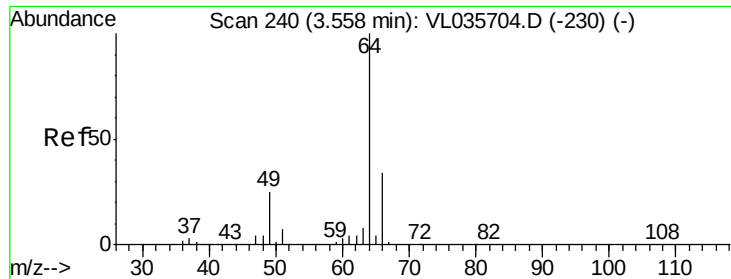
96 86.2 76.3 114.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.518 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

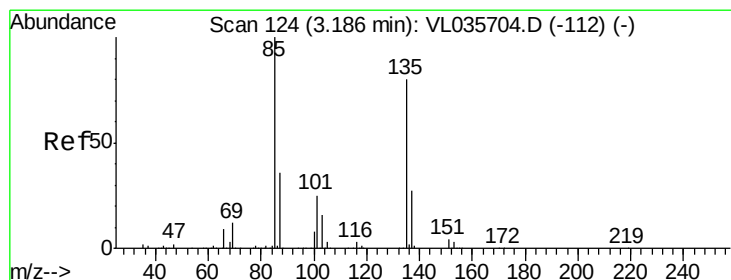
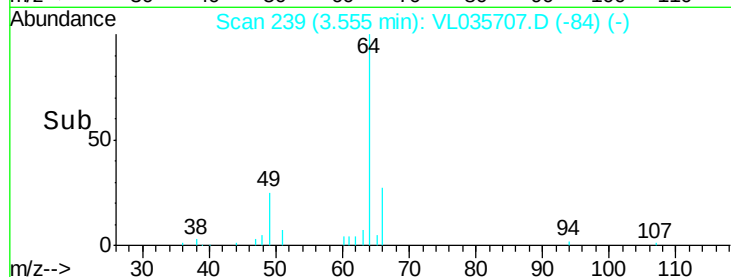
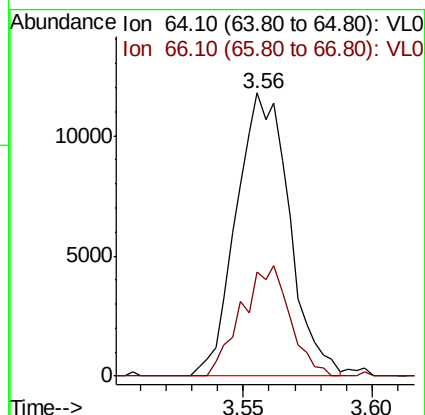
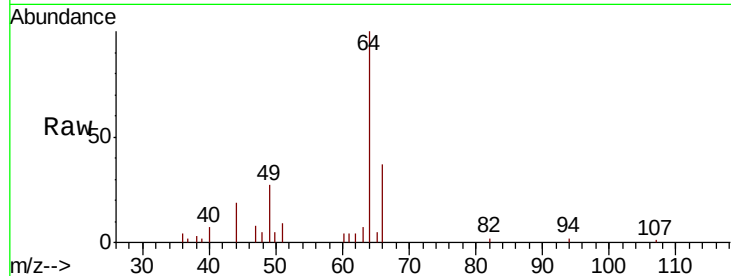
VSTDIC0.5

Tot Ion: 64 Resp: 16881

Ion Ratio Lower Upper

64 100

66 36.9 26.9 40.3



#8

Dichlorotetrafluoroethane

Concen: 0.539 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL035707.D

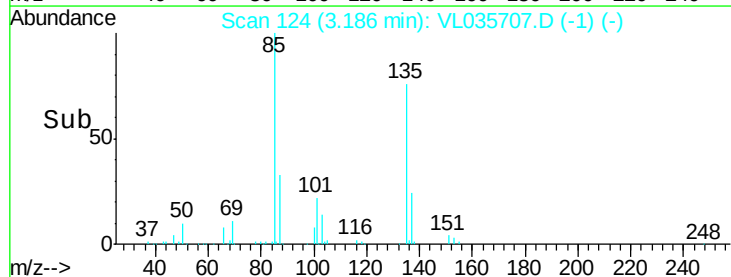
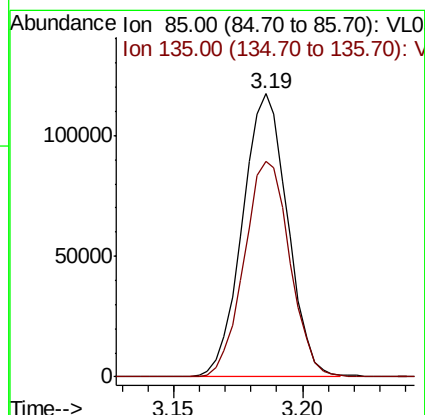
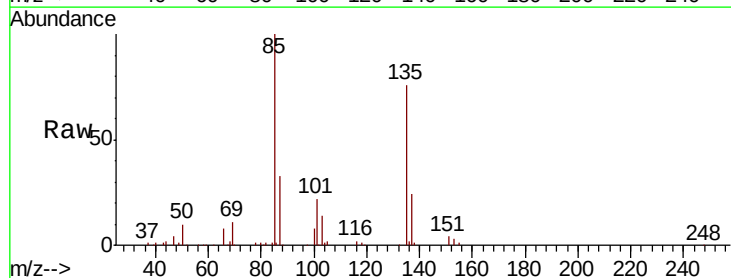
Acq: 23 Sep 2020 5:16

Tgt Ion: 85 Resp: 142670

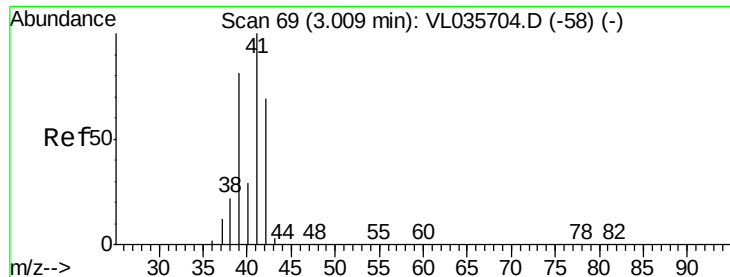
Ion Ratio Lower Upper

85 100

135 77.3 64.3 96.5







#9

Propene

Concen: 0.459 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

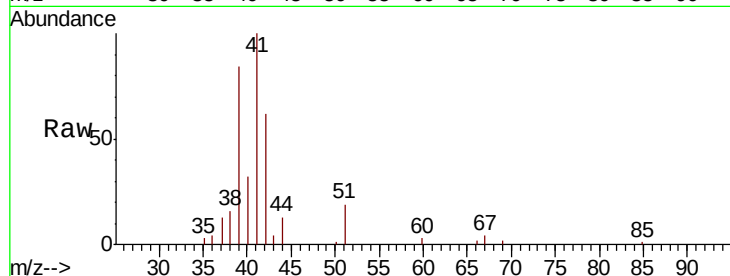
VSTDIC0.5

Tot Ion: 41 Resp: 24618

Ion Ratio Lower Upper

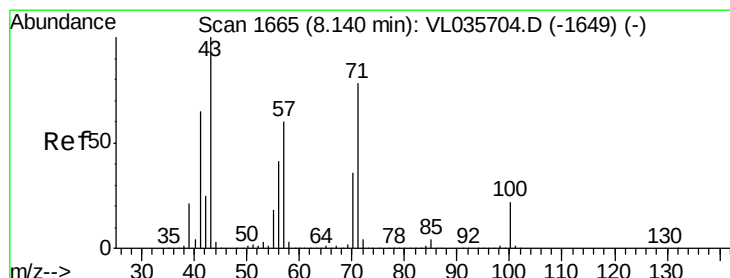
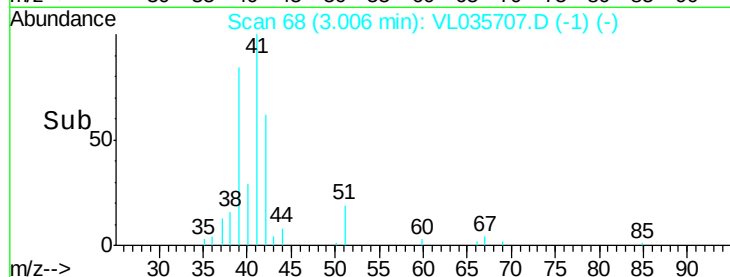
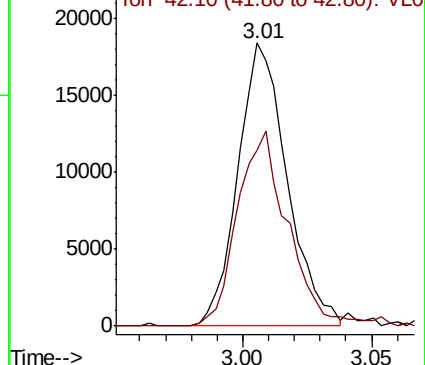
41 100

42 71.5 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.400 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL035707.D

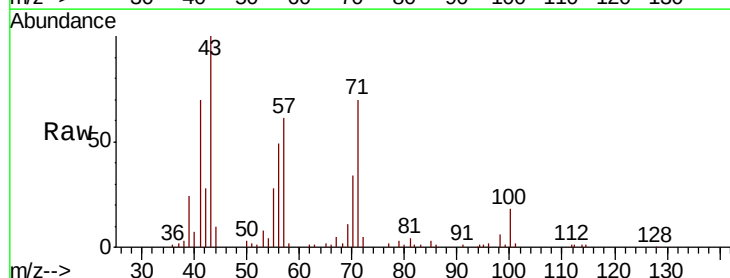
Acq: 23 Sep 2020 5:16

Tgt Ion: 43 Resp: 58646

Ion Ratio Lower Upper

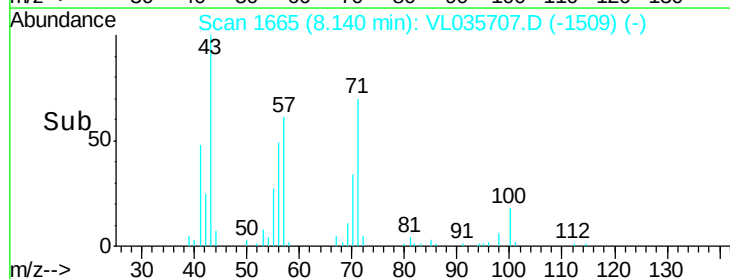
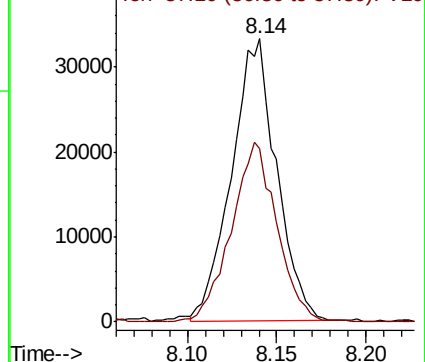
43 100

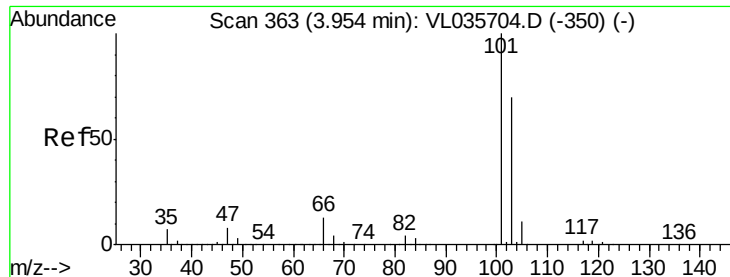
57 64.2 50.4 75.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

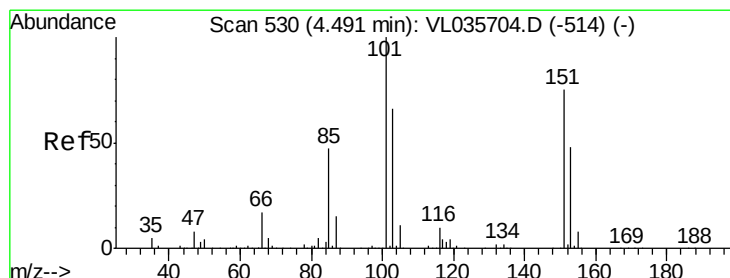
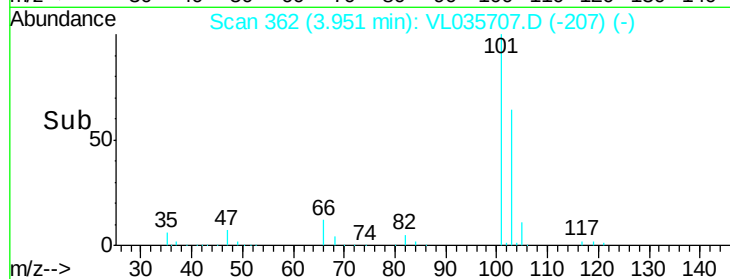
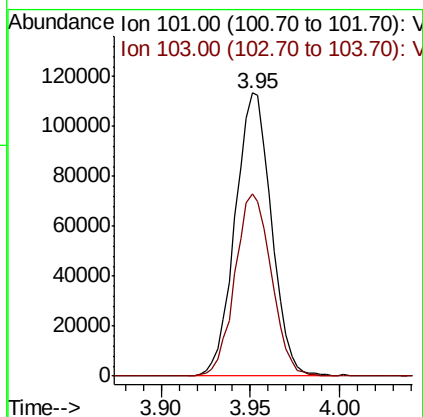
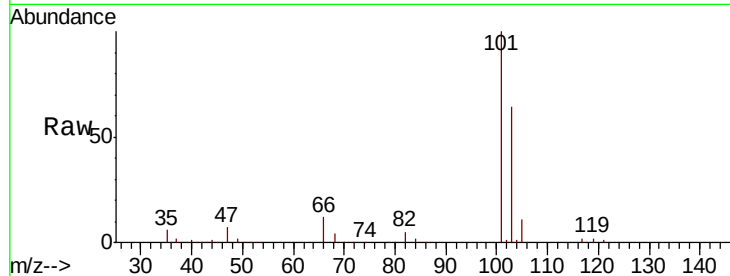




#11  
 Trichlorofluoromethane  
 Concen: 0.506 ppbv  
 RT: 3.95 min Scan# 362  
 Delta R.T. -0.00 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

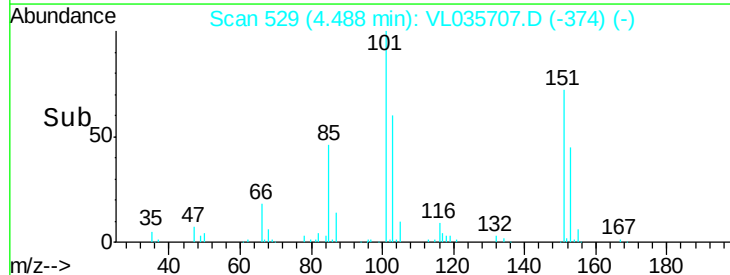
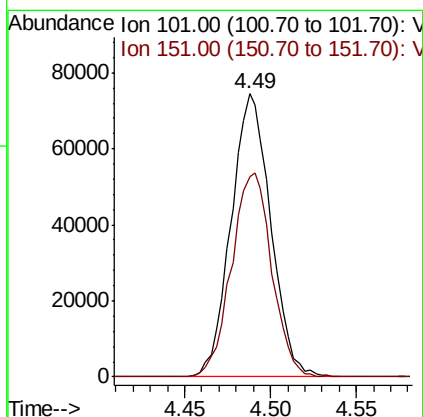
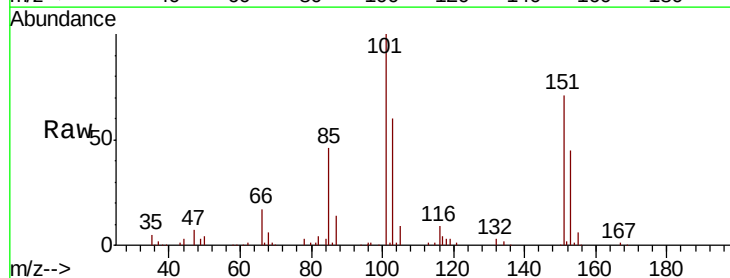
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

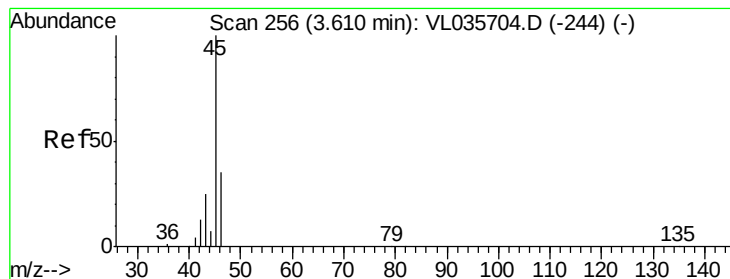
Tot Ion:101 Resp: 161011  
 Ion Ratio Lower Upper  
 101 100  
 103 64.4 55.6 83.4



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.496 ppbv  
 RT: 4.49 min Scan# 529  
 Delta R.T. -0.00 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

Tgt Ion:101 Resp: 118971  
 Ion Ratio Lower Upper  
 101 100  
 151 73.3 59.1 88.7





#13

Ethanol

Concen: 0.351 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

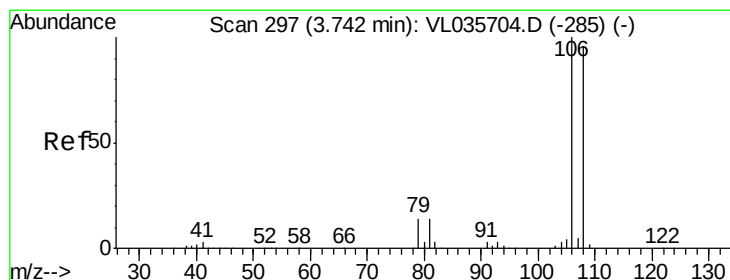
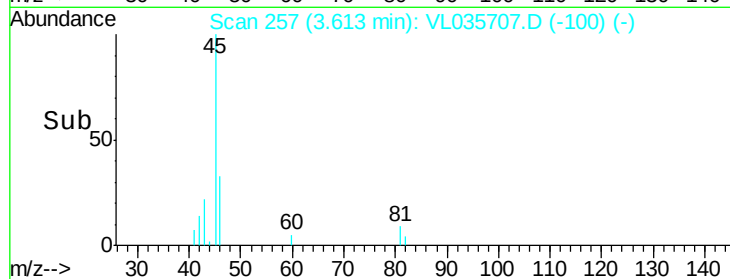
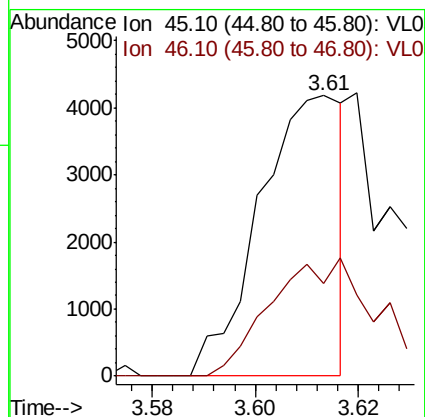
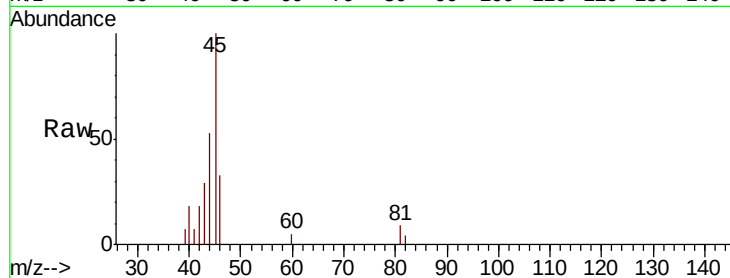
VSTDIC0.5

Tot Ion: 45 Resp: 4673

Ion Ratio Lower Upper

45 100

46 0.0 14.7 58.7#



#14

Bromoethene

Concen: 0.451 ppbv

RT: 3.74 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

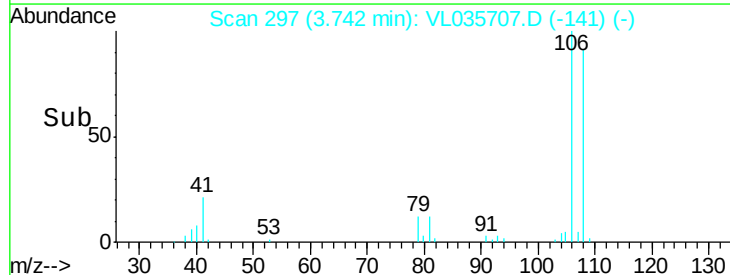
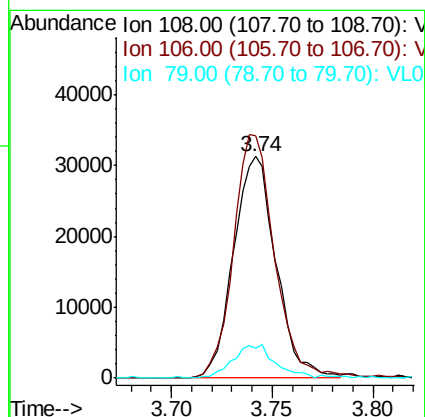
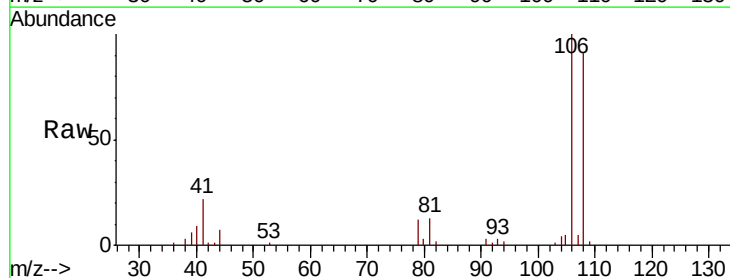
Tgt Ion: 108 Resp: 46235

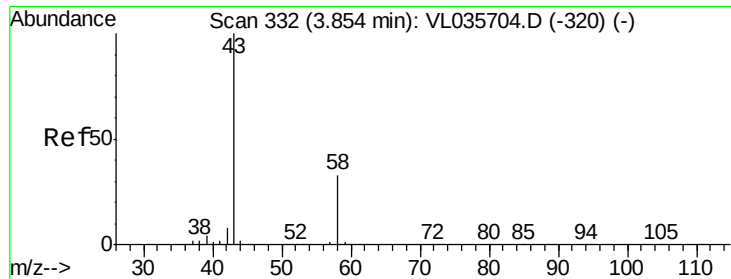
Ion Ratio Lower Upper

108 100

106 107.4 84.6 126.8

79 15.4 11.6 17.4





#15

Acetone

Concen: 0.579 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

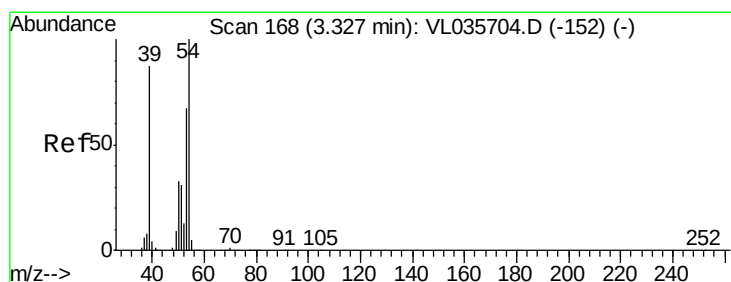
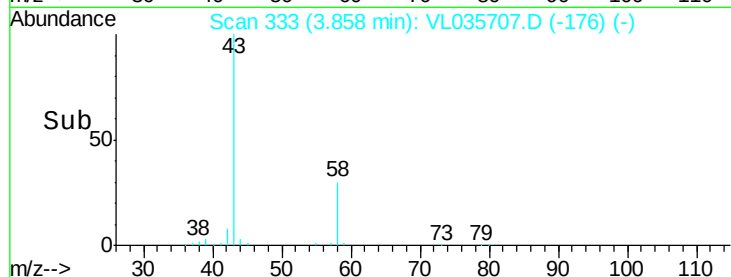
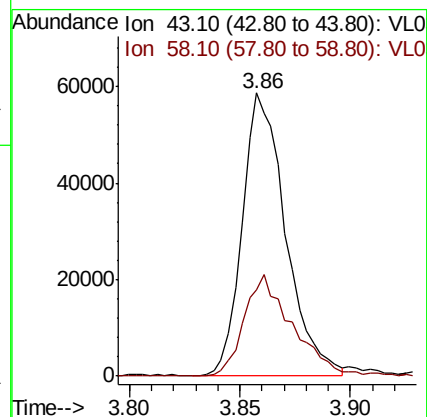
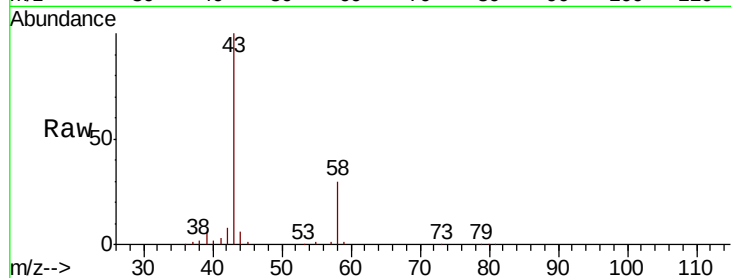
VSTDIC0.5

Tot Ion: 43 Resp: 80246

Ion Ratio Lower Upper

43 100

58 40.2 27.3 40.9



#16

1,3-Butadiene

Concen: 0.449 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.00 min

Lab File: VL035707.D

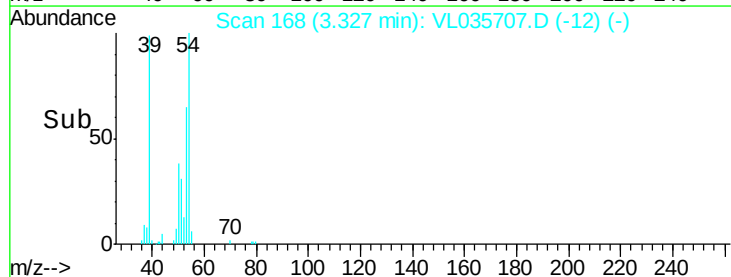
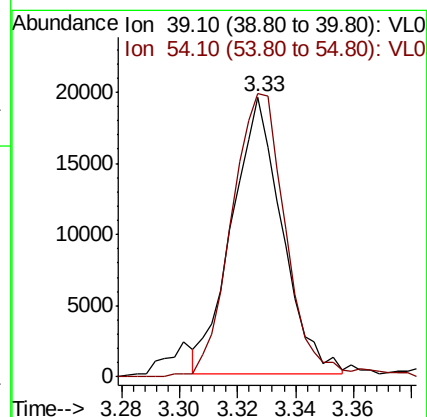
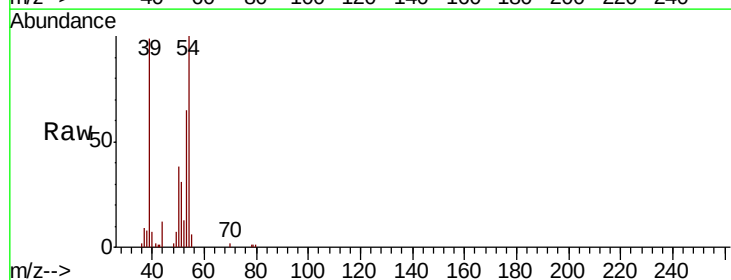
Acq: 23 Sep 2020 5:16

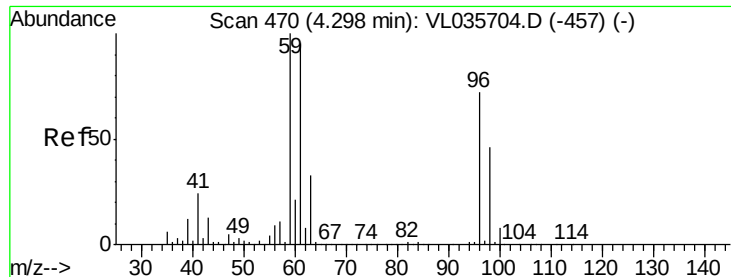
Tgt Ion: 39 Resp: 23392

Ion Ratio Lower Upper

39 100

54 111.1 87.4 131.0





#17

tert-Butyl alcohol

Concen: 0.482 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

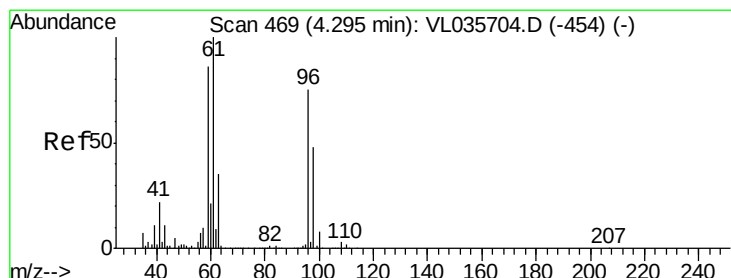
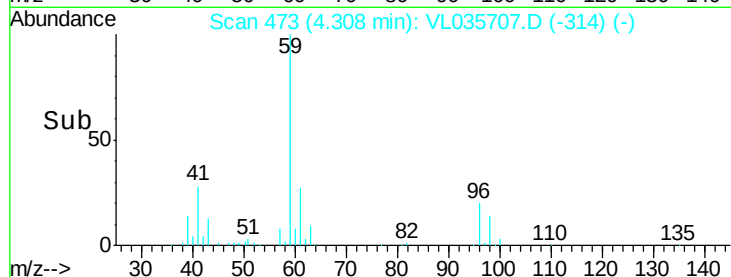
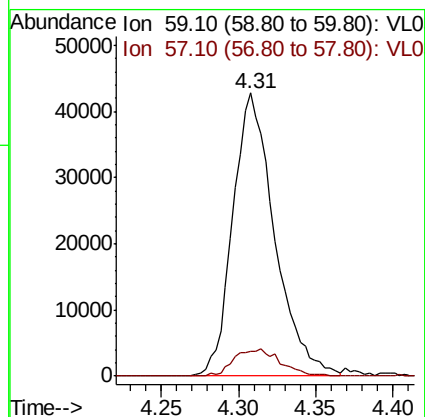
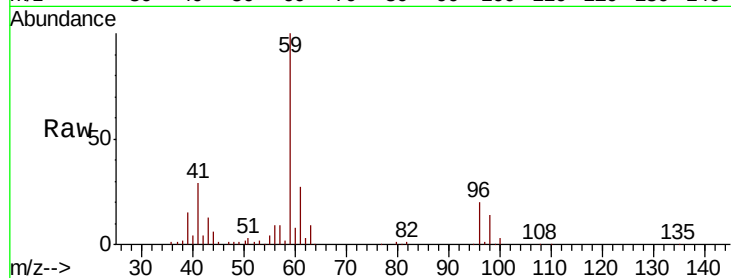
VSTDIC0.5

Tot Ion: 59 Resp: 80328

Ion Ratio Lower Upper

59 100

57 10.4 8.5 12.7



#18

1,1-Dichloroethene

Concen: 0.454 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

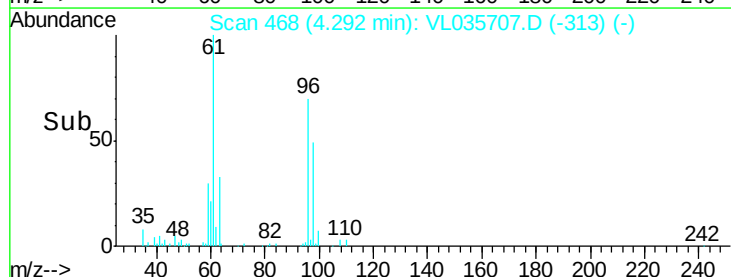
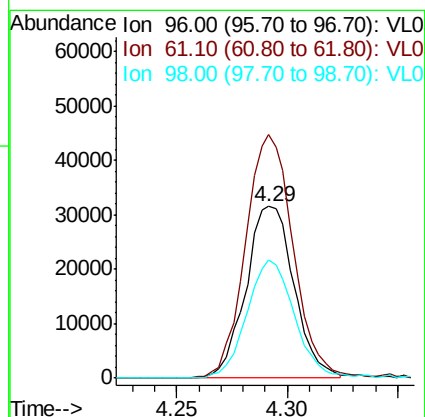
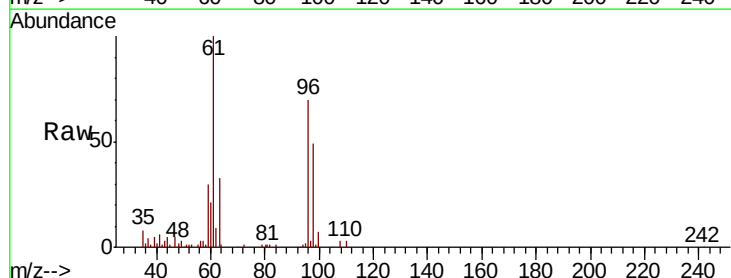
Tgt Ion: 96 Resp: 47894

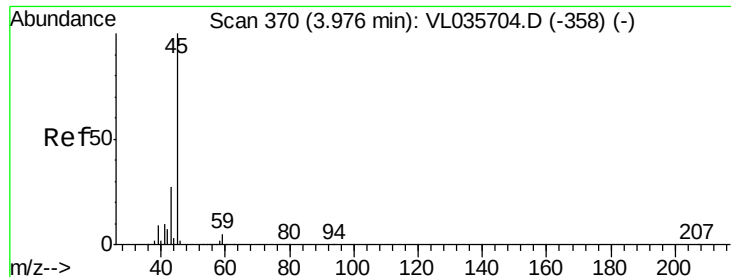
Ion Ratio Lower Upper

96 100

61 142.1 106.7 160.1

98 69.1 50.8 76.2





#19

Isopropyl Alcohol

Concen: 0.529 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampled :

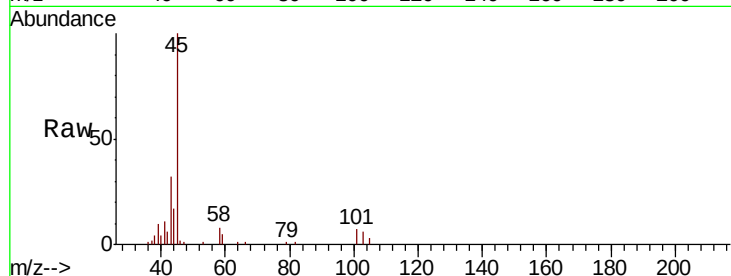
VSTDIC0.5

Tot Ion: 45 Resp: 43087

Ion Ratio Lower Upper

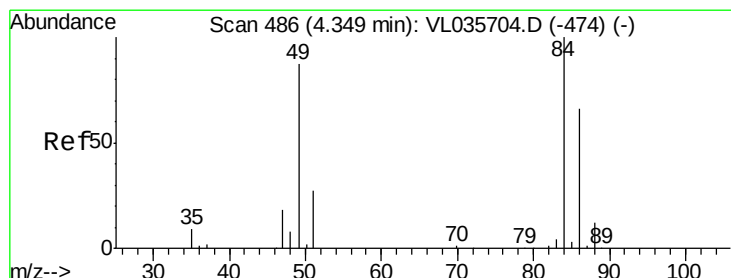
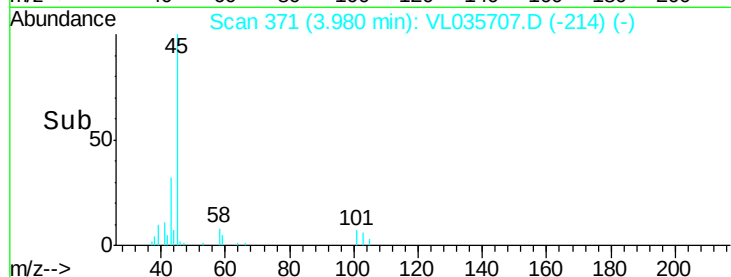
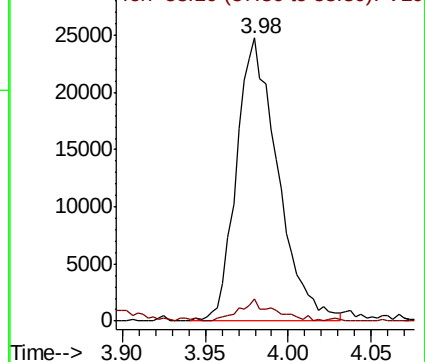
45 100

58 6.8 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.579 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Tgt Ion: 84 Resp: 60398

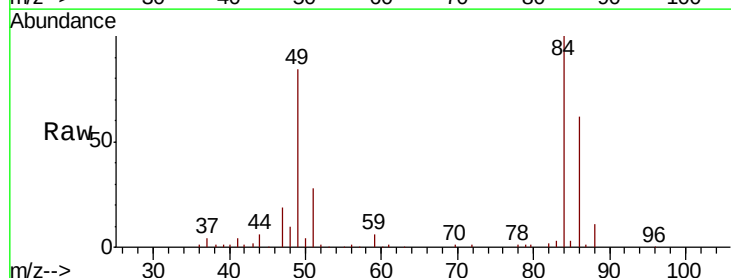
Ion Ratio Lower Upper

84 100

49 83.4 69.8 104.6

51 26.9 21.8 32.8

86 62.1 52.6 78.8

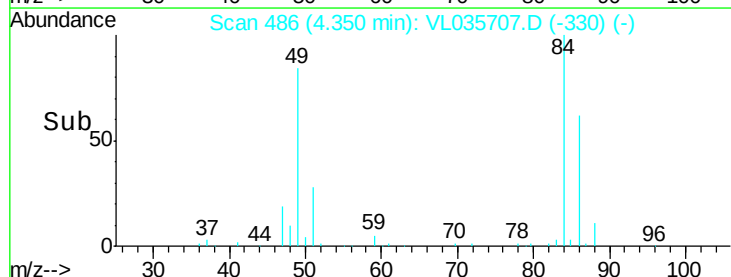
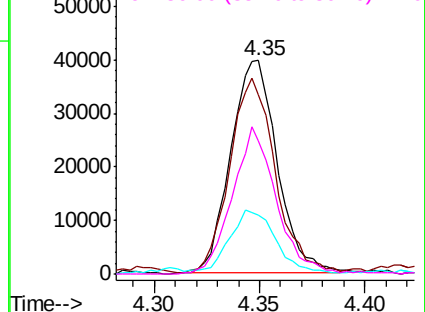


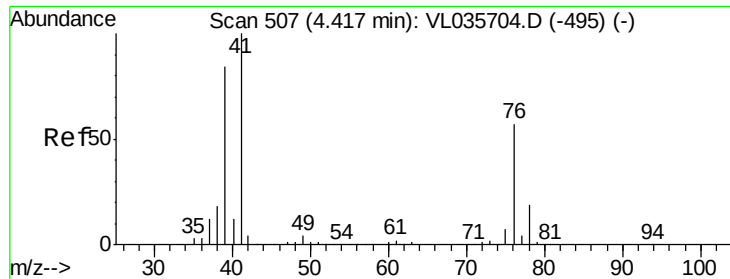
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 0.488 ppbv

RT: 4.42 min Scan# 507

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

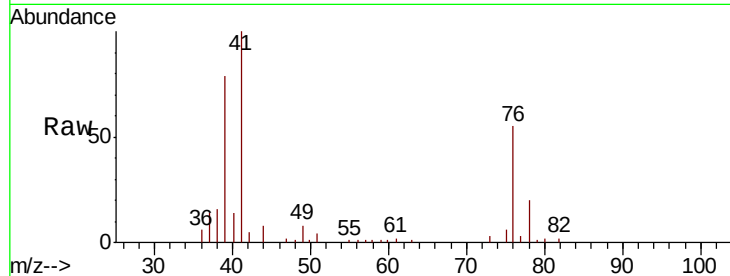
Tot Ion: 41 Resp: 31999

Ion Ratio Lower Upper

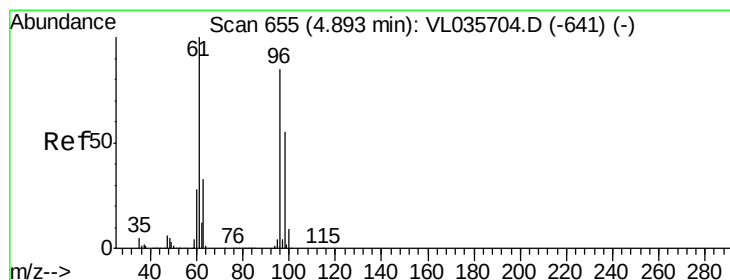
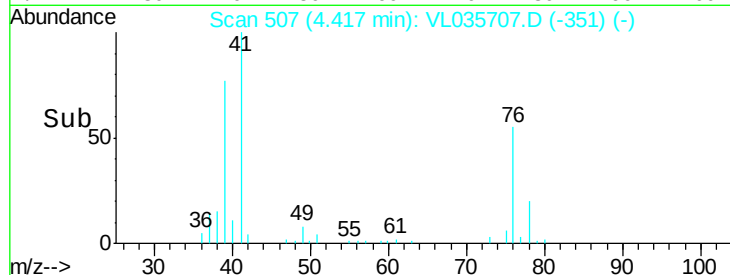
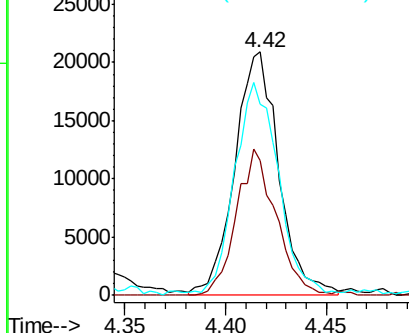
41 100

76 54.6 44.8 67.2

39 85.3 68.4 102.6



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: 0.468 ppbv

RT: 4.89 min Scan# 654

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

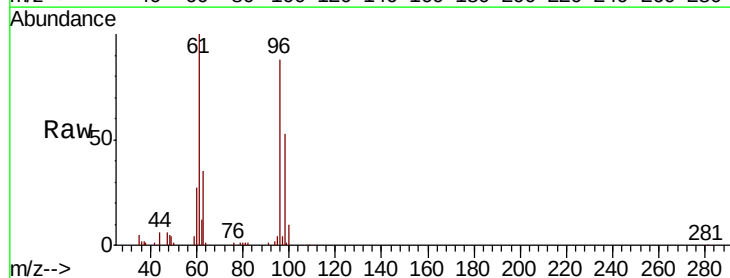
Tgt Ion: 96 Resp: 52562

Ion Ratio Lower Upper

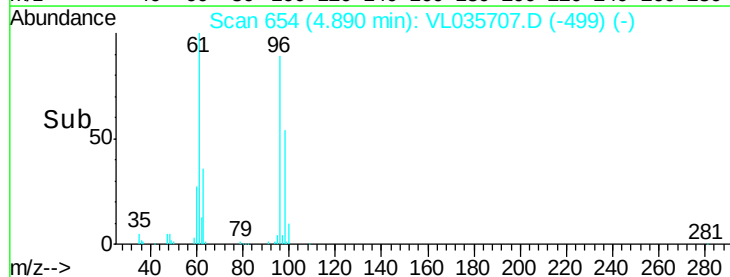
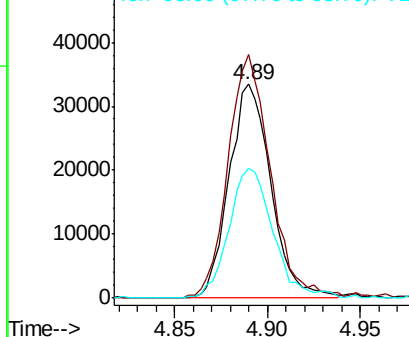
96 100

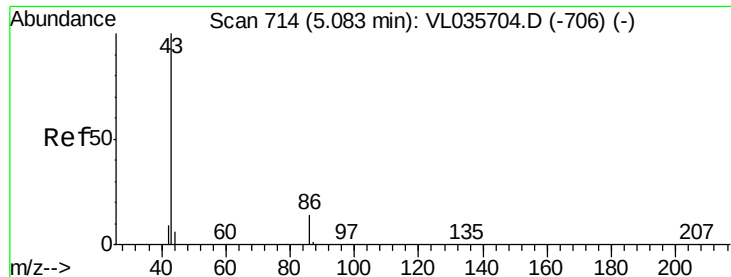
61 112.3 93.7 140.5

98 59.9 51.2 76.8



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: 0.489 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

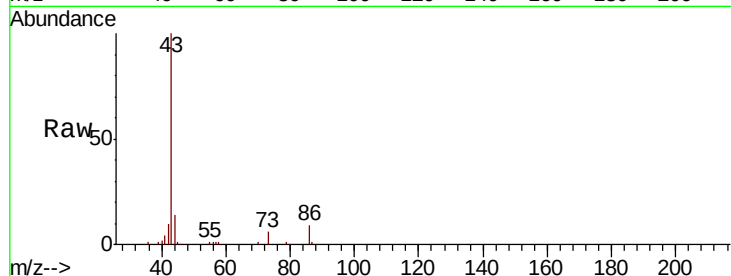
MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 87199

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 9.2   | 9.7   | 14.5# |
| 42  | 9.9   | 7.9   | 11.9  |
| 44  | 9.0   | 4.8   | 7.2#  |

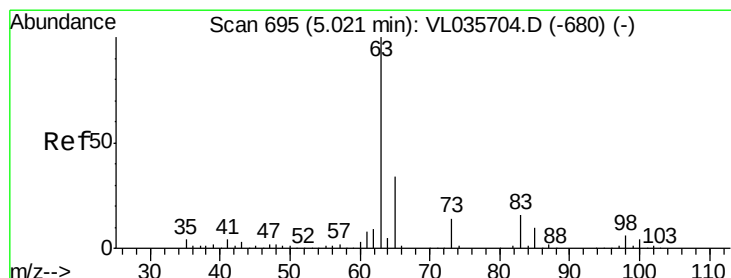
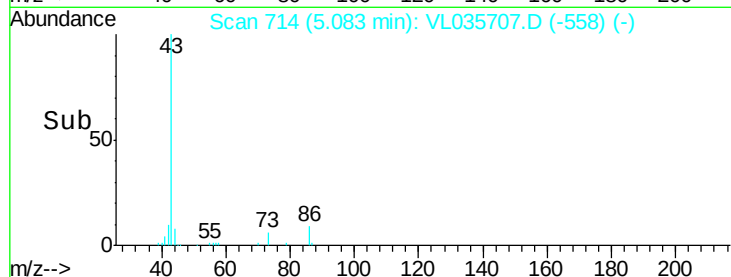
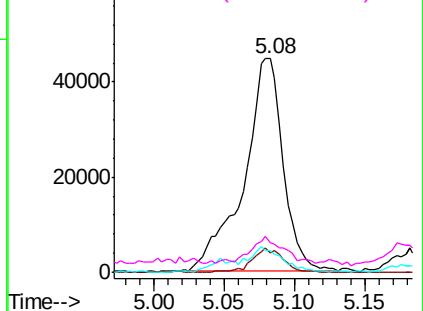


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.523 ppbv

RT: 5.02 min Scan# 693

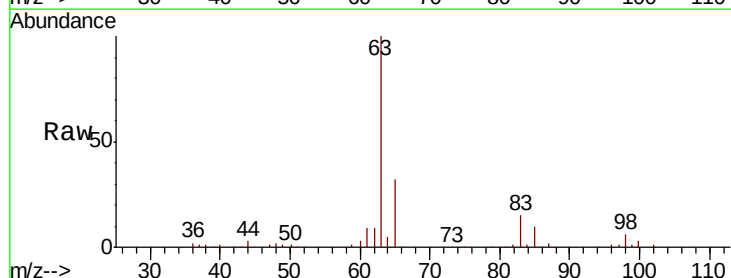
Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Tgt Ion: 63 Resp: 96586

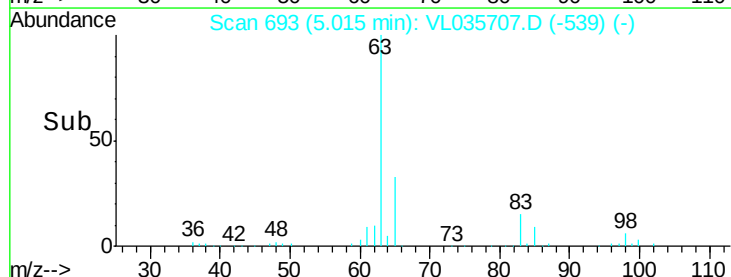
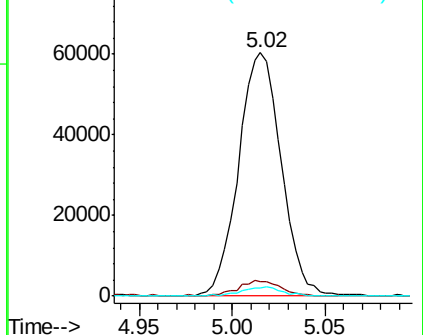
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 6.1   | 3.3   | 9.8   |
| 100 | 3.4   | 2.0   | 5.8   |



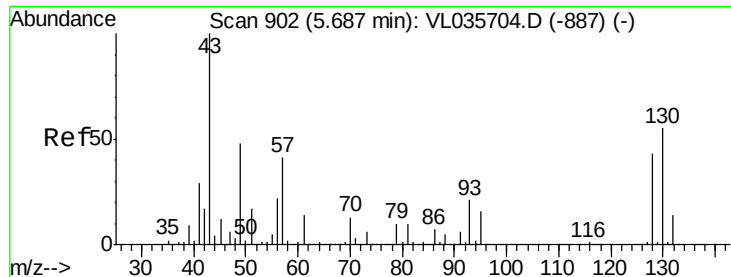
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



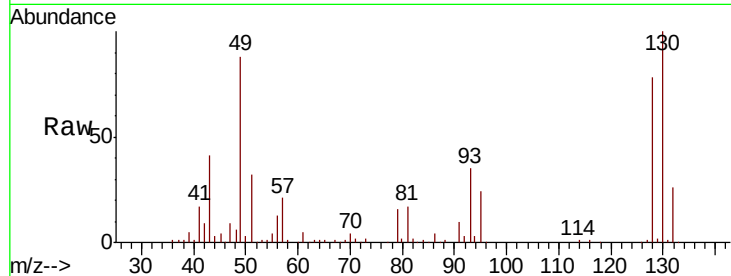




#25  
Ethyl Acetate  
Concen: 0.500 ppbv  
RT: 5.69 min Scan# 904  
Delta R.T. 0.01 min  
Lab File: VL035707.D  
Acq: 23 Sep 2020 5:16

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 124521 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 11.0  | 8.6   | 12.8   |
| 61       | 12.3  | 10.4  | 15.6   |
| 70       | 10.7  | 8.9   | 13.3   |



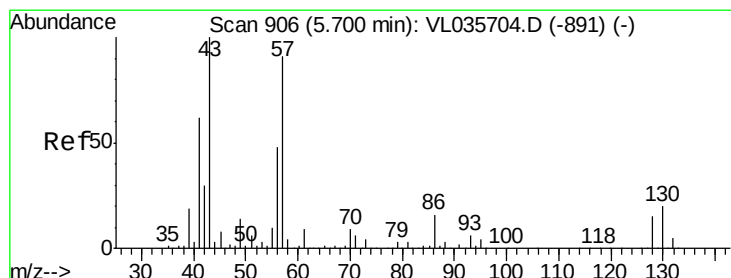
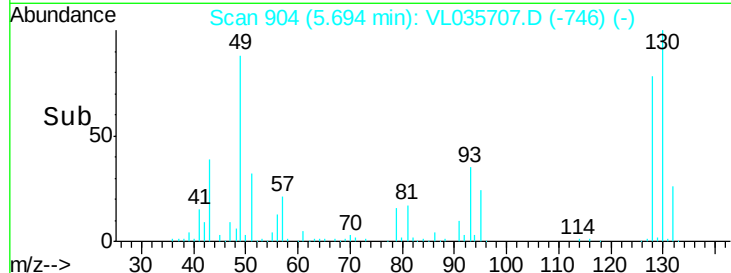
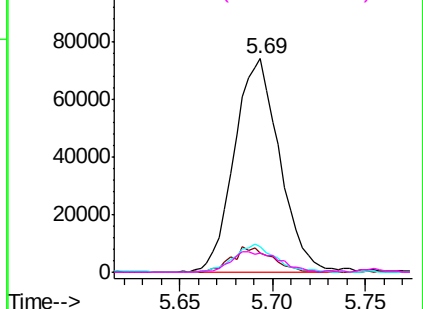
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

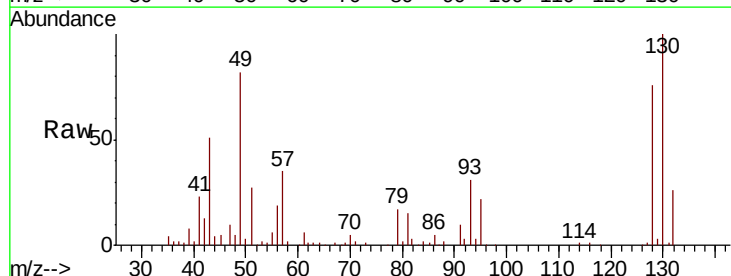
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 0.457 ppbv  
RT: 5.70 min Scan# 905  
Delta R.T. -0.00 min  
Lab File: VL035707.D  
Acq: 23 Sep 2020 5:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 64440 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 81.2  | 57.9  | 86.9  |
| 43       | 198.1 | 143.8 | 215.6 |
| 56       | 58.5  | 43.0  | 64.6  |



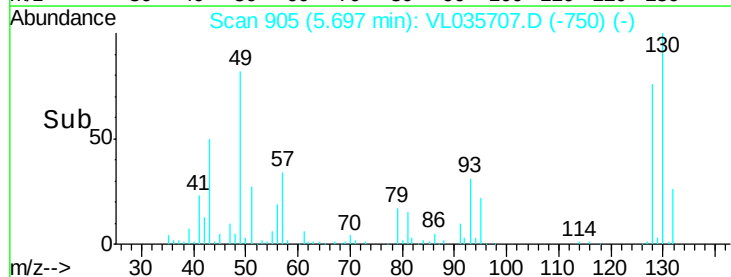
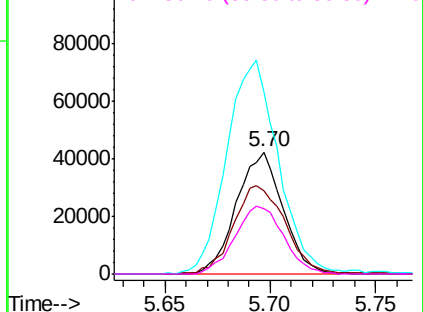
Abundance

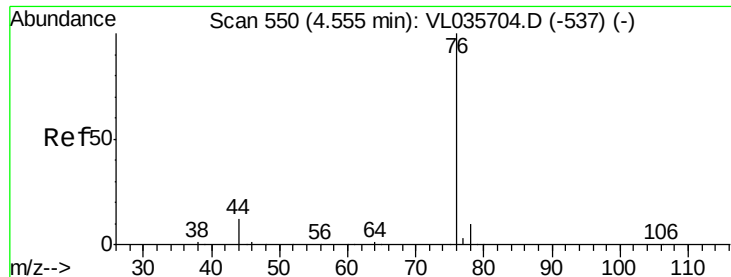
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.451 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

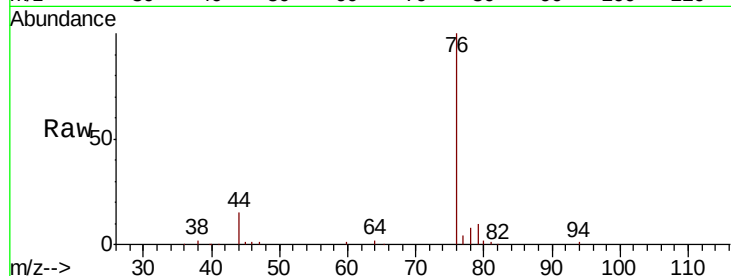
Tot Ion: 76 Resp: 90605

Ion Ratio Lower Upper

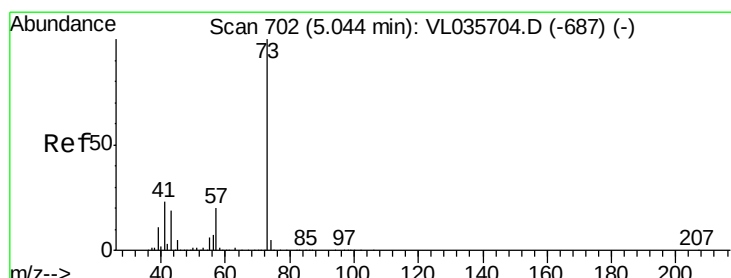
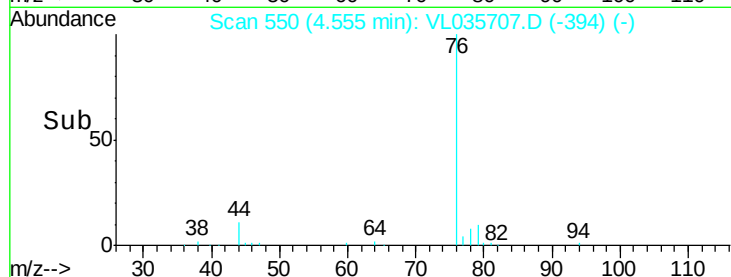
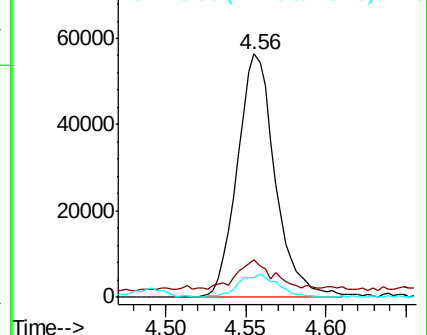
76 100

44 13.7 9.7 14.5

78 10.0 7.8 11.8



Abundance Ion 76.00 (75.70 to 76.70): VL0  
Ion 44.10 (43.80 to 44.80): VL0  
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.399 ppbv

RT: 5.05 min Scan# 705

Delta R.T. 0.01 min

Lab File: VL035707.D

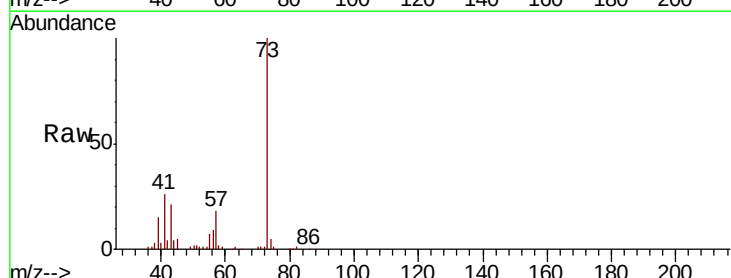
Acq: 23 Sep 2020 5:16

Tgt Ion: 73 Resp: 95700

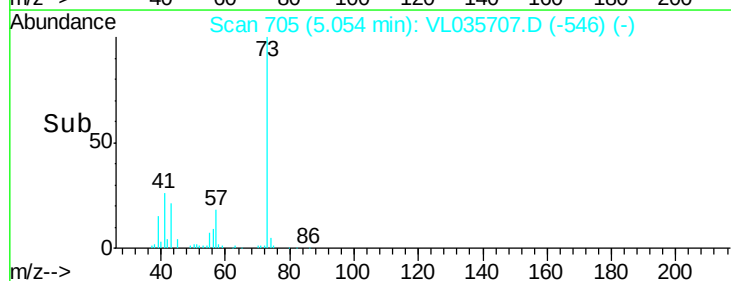
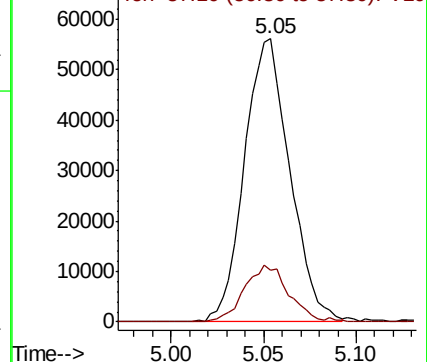
Ion Ratio Lower Upper

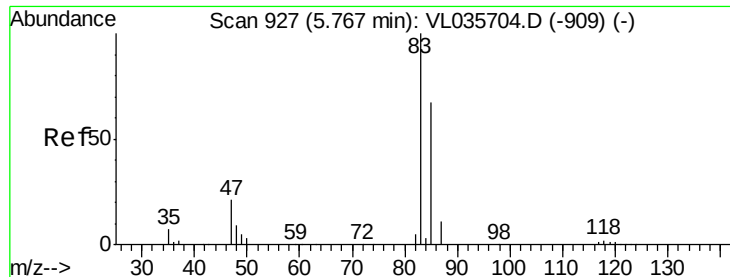
73 100

57 19.8 15.6 23.4



Abundance Ion 73.10 (72.80 to 73.80): VL0  
Ion 57.10 (56.80 to 57.80): VL0

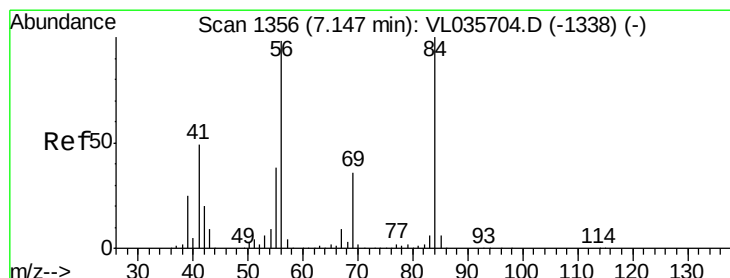
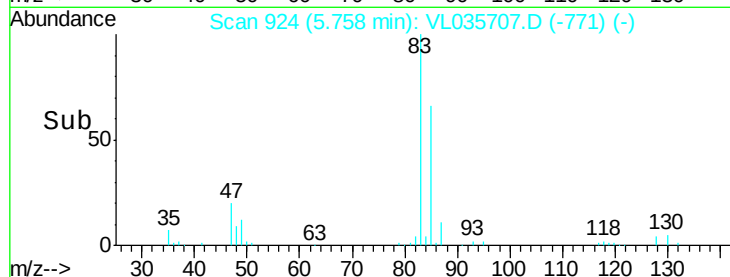
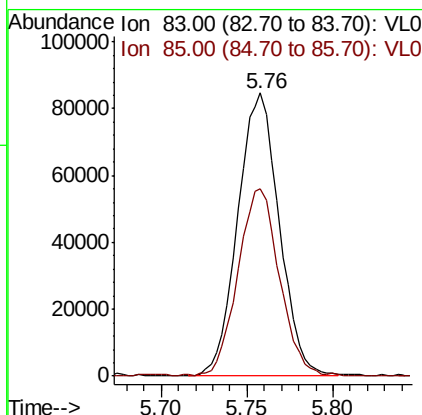
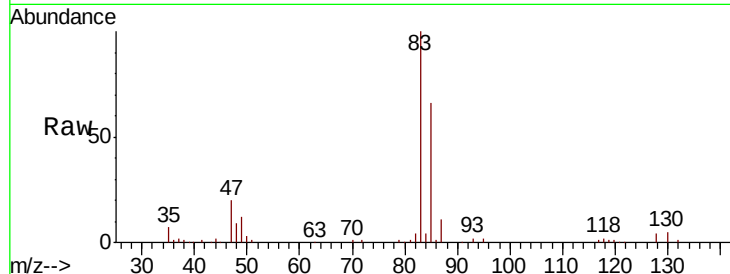




#29  
Chloroform  
Concen: 0.499 ppbv  
RT: 5.76 min Scan# 924  
Delta R.T. -0.01 min  
Lab File: VL035707.D  
Acq: 23 Sep 2020 5:16

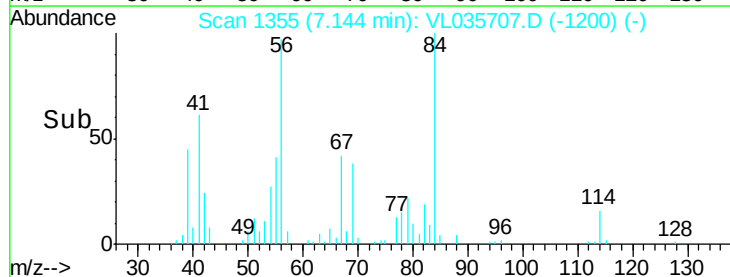
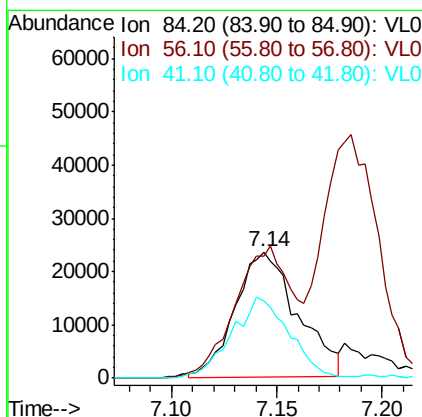
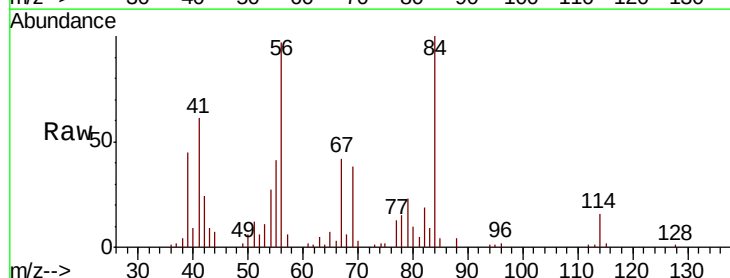
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

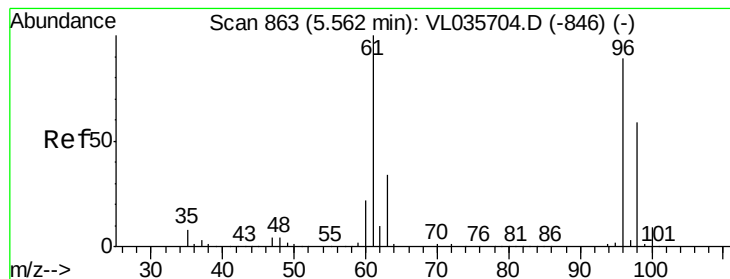
Tot Ion: 83 Resp: 142040  
Ion Ratio Lower Upper  
83 100  
85 65.6 54.0 81.0



#30  
Cyclohexane  
Concen: 0.328 ppbv  
RT: 7.14 min Scan# 1355  
Delta R.T. -0.00 min  
Lab File: VL035707.D  
Acq: 23 Sep 2020 5:16

Tgt Ion: 84 Resp: 48694  
Ion Ratio Lower Upper  
84 100  
56 0.0 84.6 127.0#  
41 61.4 41.1 61.7





#31

cis-1,2-Dichloroethene

Concen: 0.400 ppbv

RT: 5.56 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

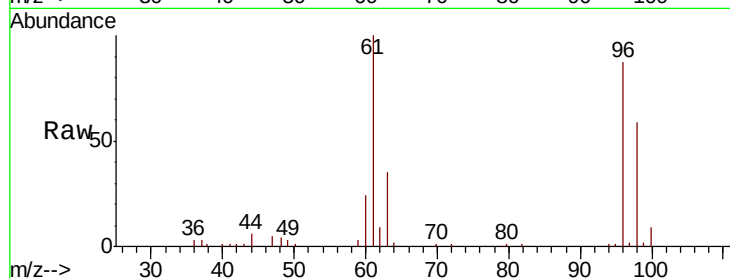
Tot Ion: 61 Resp: 57103

Ion Ratio Lower Upper

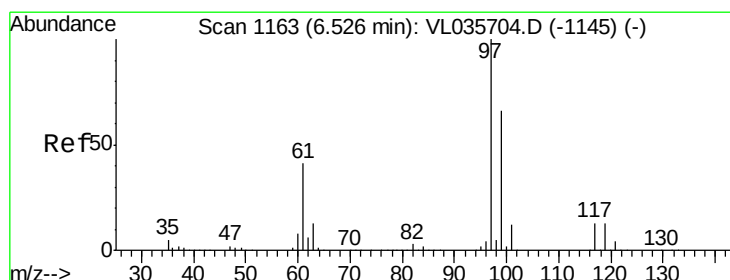
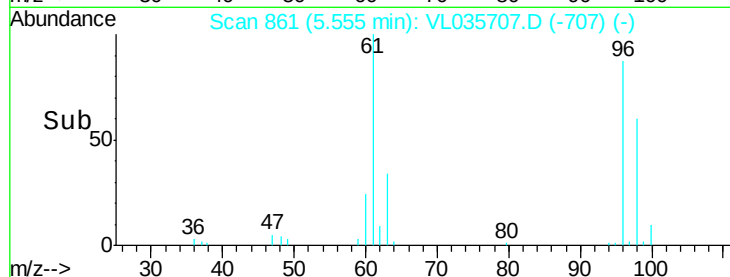
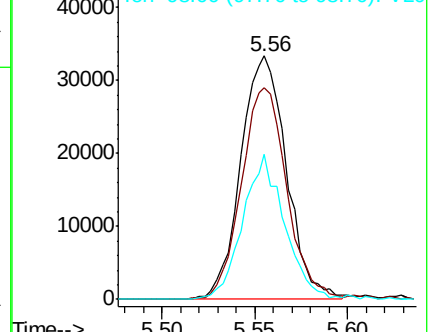
61 100

96 86.3 71.4 107.2

98 59.5 47.4 71.2



Abundance Ion 61.10 (60.80 to 61.80): VL0  
Ion 96.00 (95.70 to 96.70): VL0  
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.433 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

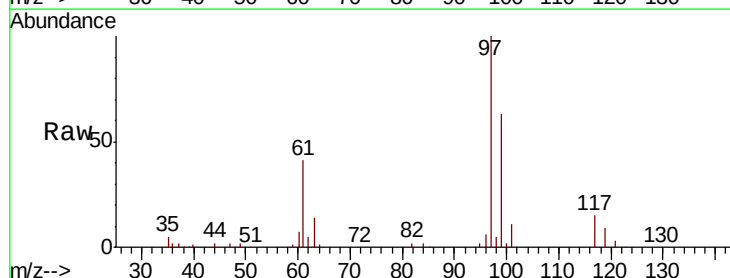
Tgt Ion: 97 Resp: 119144

Ion Ratio Lower Upper

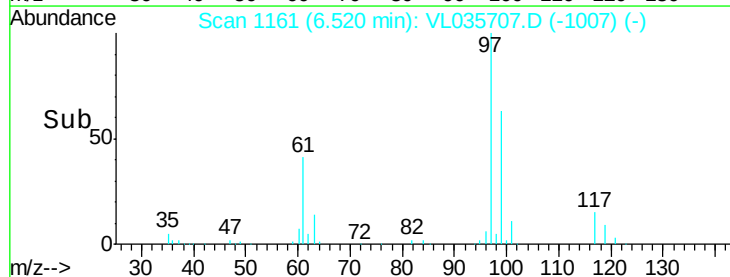
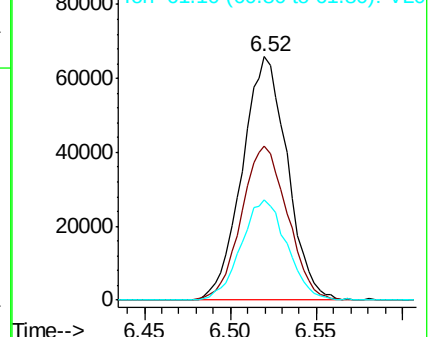
97 100

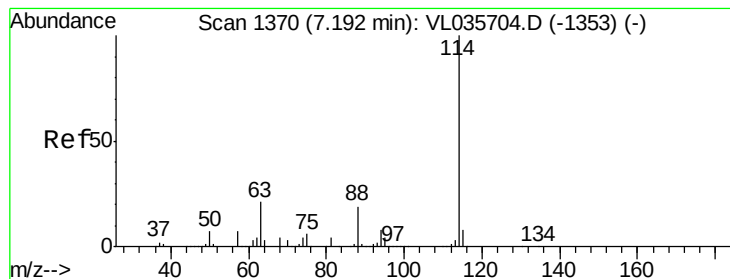
99 65.0 52.7 79.1

61 42.2 32.7 49.1



Abundance Ion 97.00 (96.70 to 97.70): VL0  
Ion 99.00 (98.70 to 99.70): VL0  
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

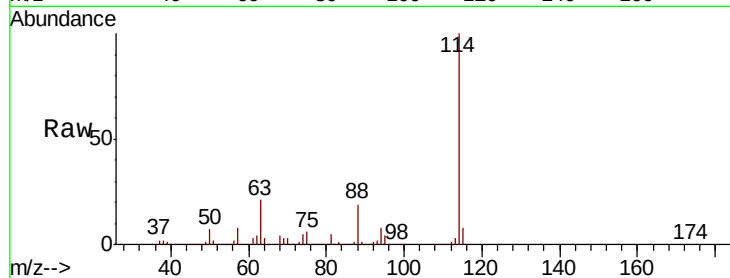
Tot Ion:114 Resp: 4785490

Ion Ratio Lower Upper

114 100

63 20.1 16.1 24.1

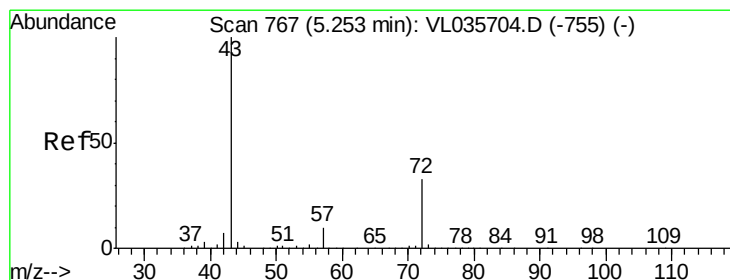
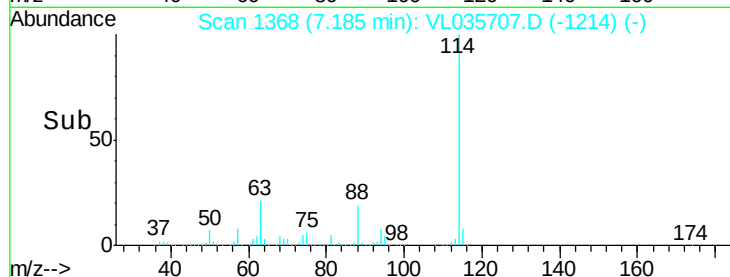
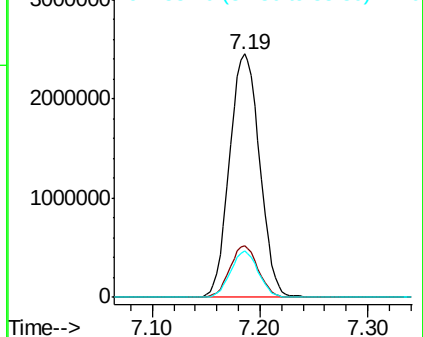
88 17.7 14.1 21.1



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: 0.497 ppbv

RT: 5.26 min Scan# 769

Delta R.T. 0.01 min

Lab File: VL035707.D

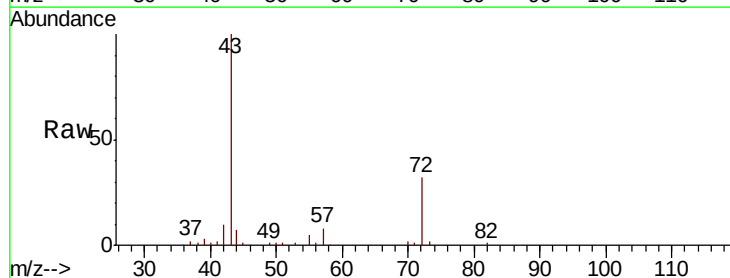
Acq: 23 Sep 2020 5:16

Tgt Ion: 43 Resp: 72358

Ion Ratio Lower Upper

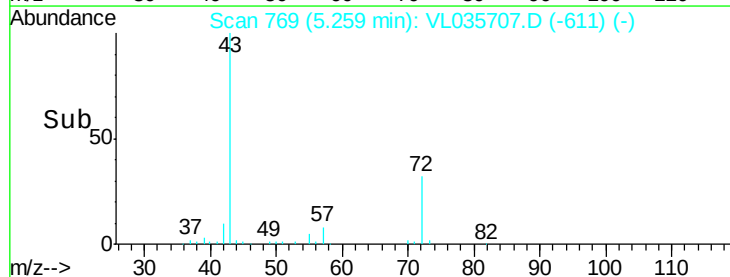
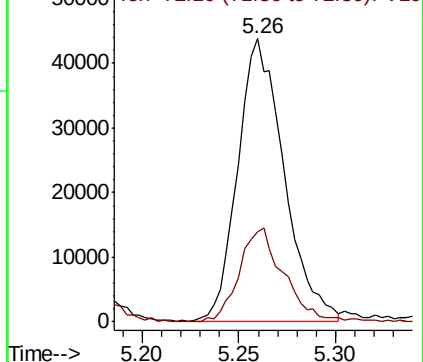
43 100

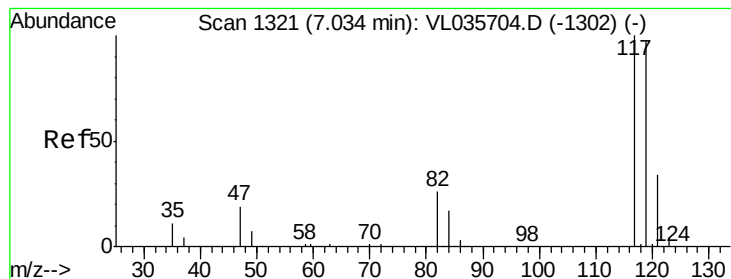
72 32.5 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.500 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

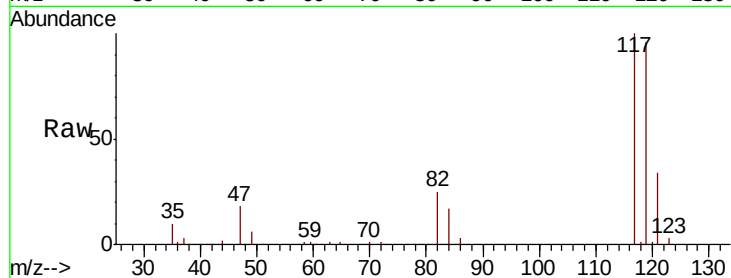
Tot Ion:117 Resp: 120830

Ion Ratio Lower Upper

117 100

119 95.9 77.7 116.5

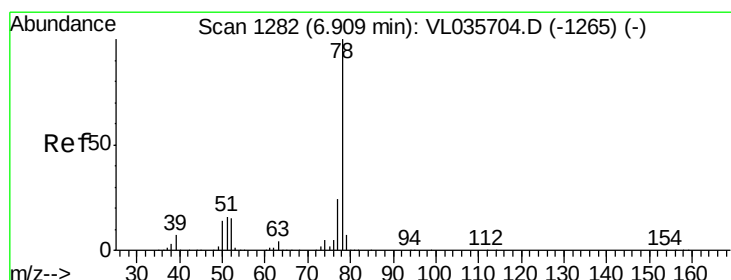
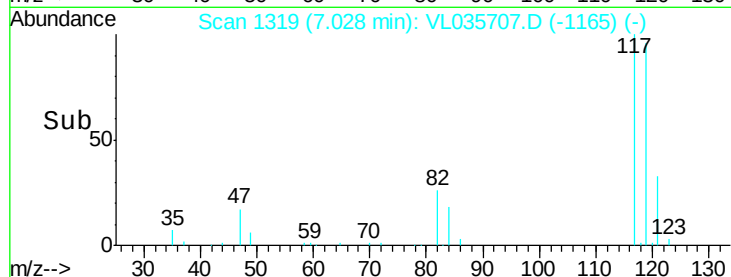
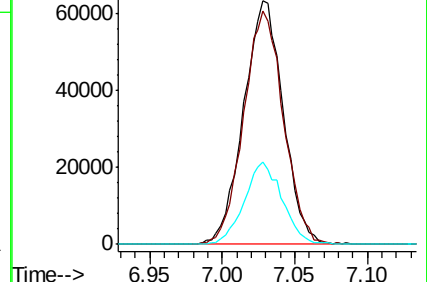
121 33.9 26.9 40.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.446 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

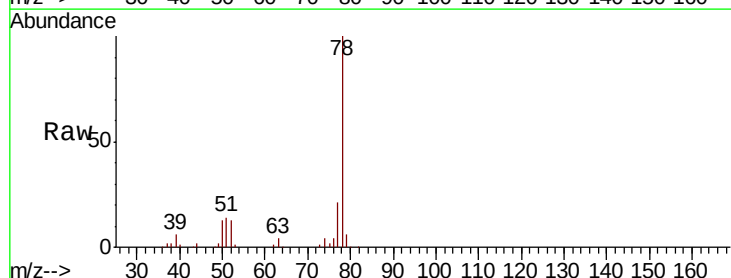
Tgt Ion: 78 Resp: 139598

Ion Ratio Lower Upper

78 100

77 20.9 19.3 28.9

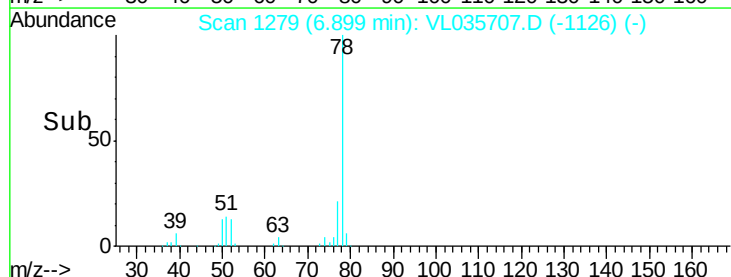
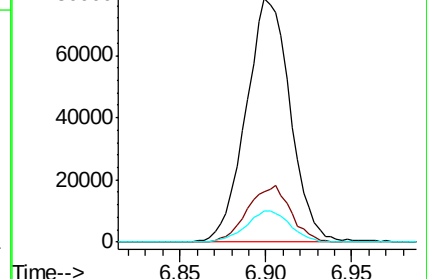
50 12.7 11.6 17.4

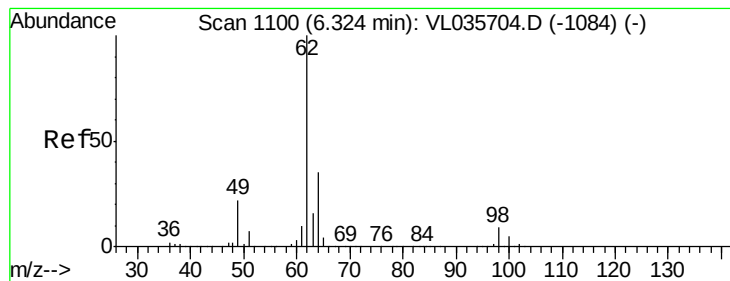


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.540 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampled :

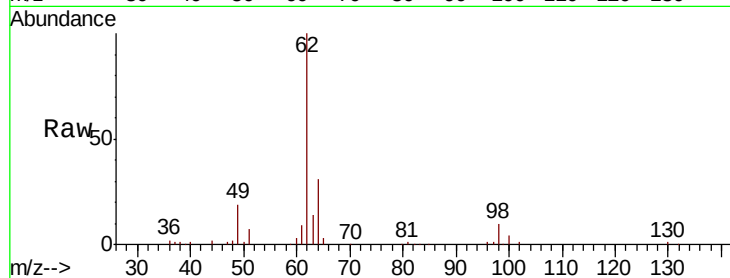
VSTDIC0.5

Tot Ion: 62 Resp: 81430

Ion Ratio Lower Upper

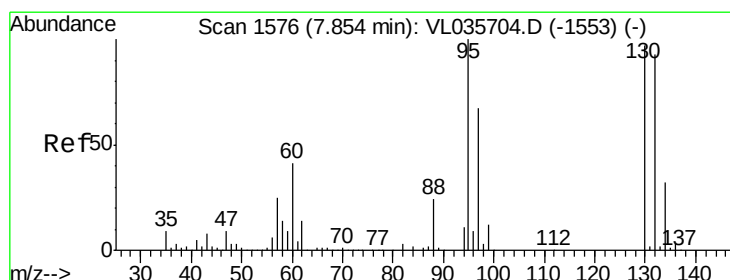
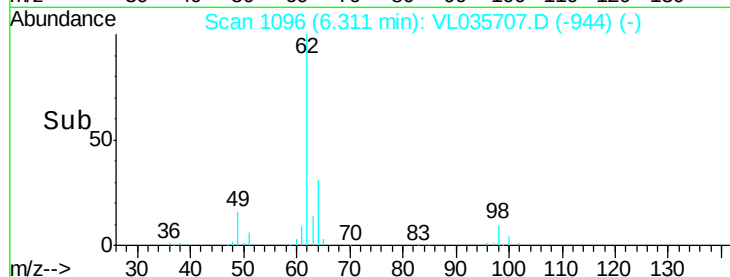
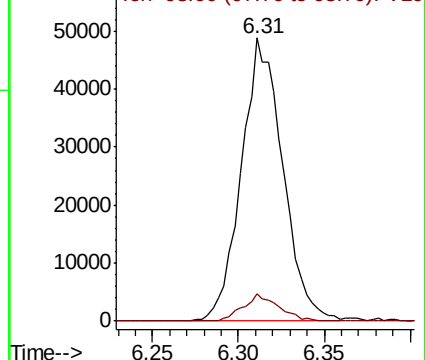
62 100

98 8.3 6.9 10.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.403 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Tgt Ion: 130 Resp: 72450

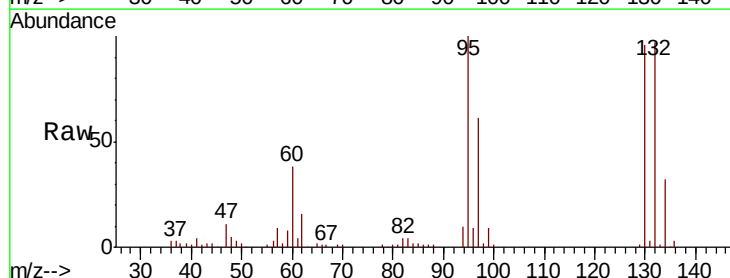
Ion Ratio Lower Upper

130 100

95 104.6 82.4 123.6

132 101.2 76.8 115.2

97 63.5 55.4 83.2

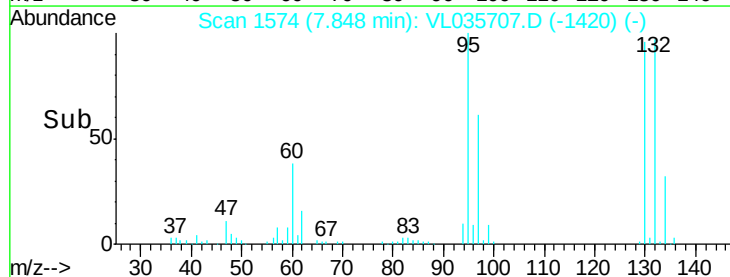
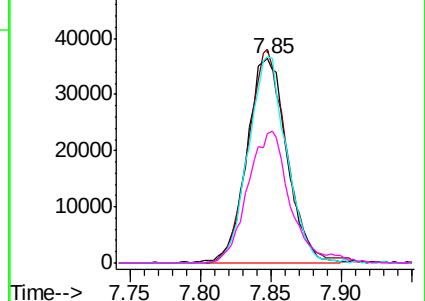


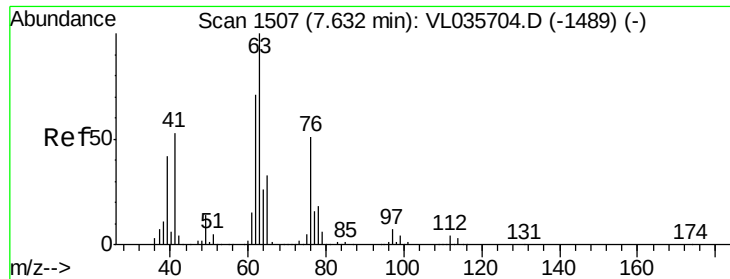
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 0.527 ppbv

RT: 7.63 min Scan# 1505

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

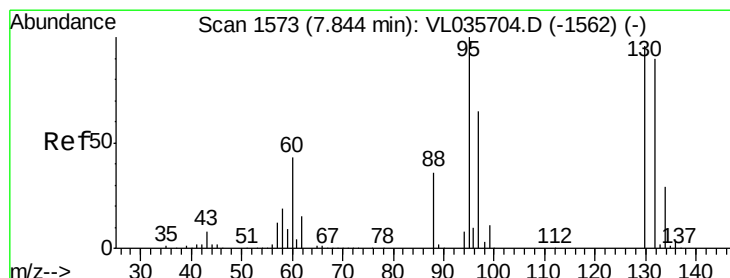
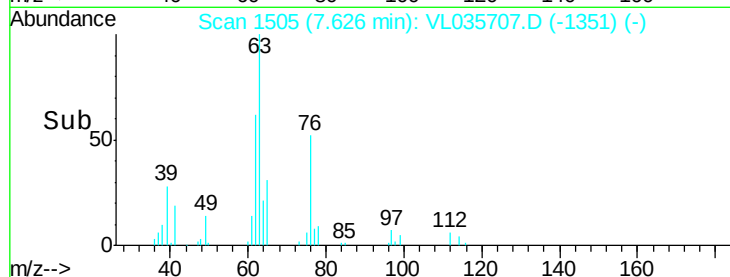
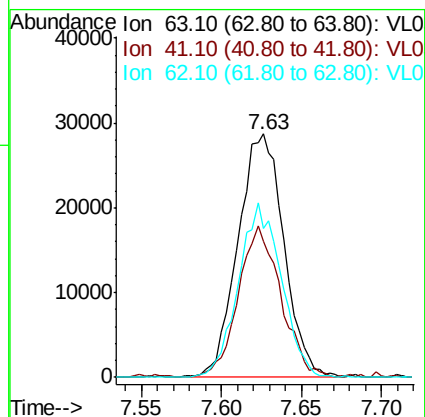
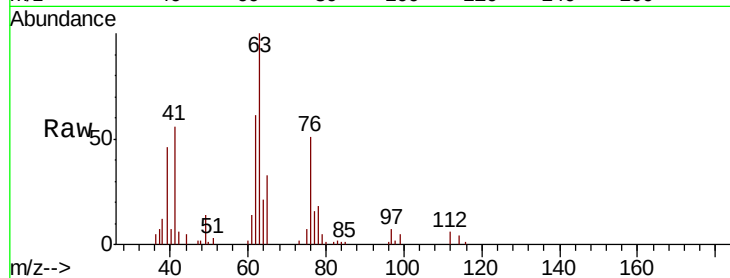
Tot Ion: 63 Resp: 56059

Ion Ratio Lower Upper

63 100

41 55.8 42.6 63.8

62 61.3 56.5 84.7



#40

1,4-Dioxane

Concen: 0.279 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. 0.04 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Tgt Ion: 88 Resp: 14470

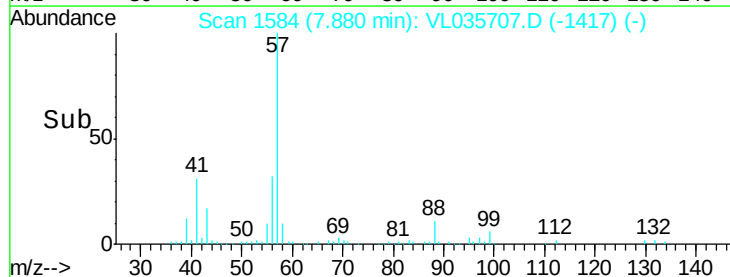
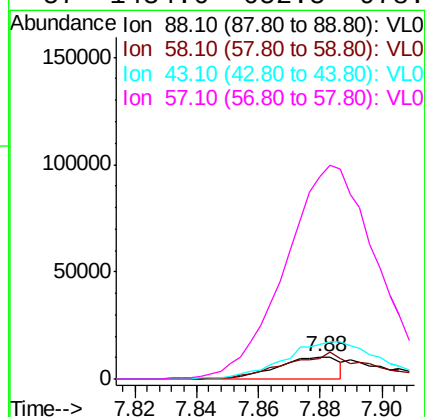
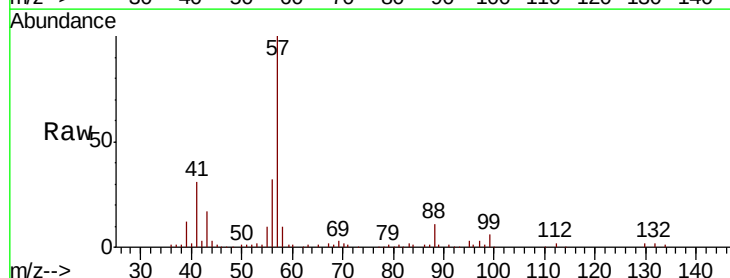
Ion Ratio Lower Upper

88 100

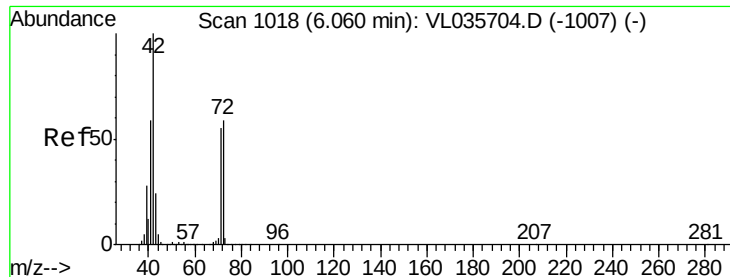
58 185.1 76.2 114.4#

43 265.1 123.4 185.2#

57 1434.6 652.5 978.7#







#41

Tetrahydrofuran

Concen: 0.402 ppbv

RT: 6.08 min Scan# 1023

Delta R.T. 0.02 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

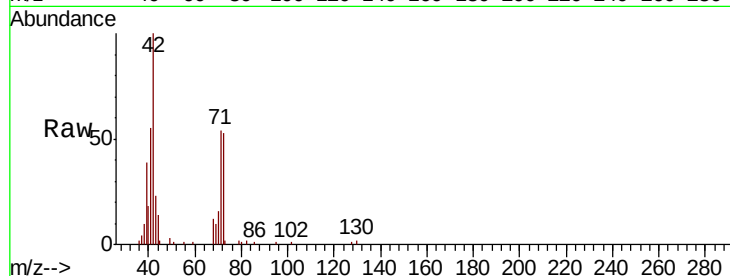
Tot Ion: 42 Resp: 30970

Ion Ratio Lower Upper

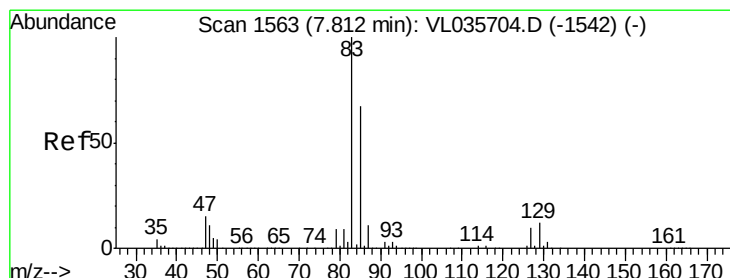
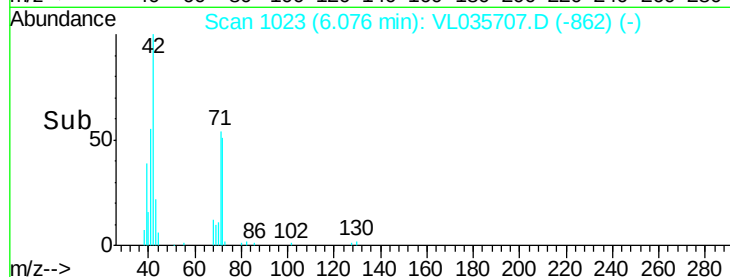
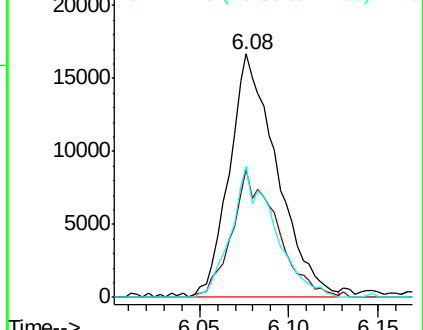
42 100

72 50.0 46.2 69.4

71 49.1 44.2 66.4



Abundance Ion 42.10 (41.80 to 42.80): VL0  
Ion 72.10 (71.80 to 72.80): VL0  
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.506 ppbv

RT: 7.80 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

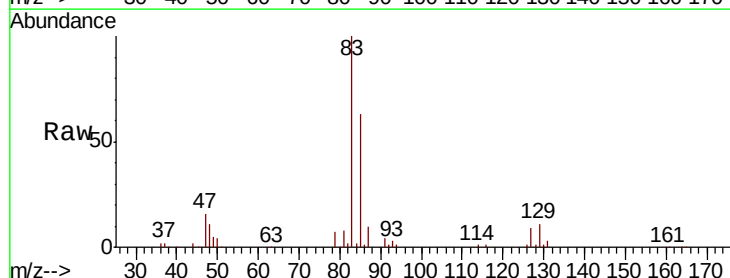
Tgt Ion: 83 Resp: 122968

Ion Ratio Lower Upper

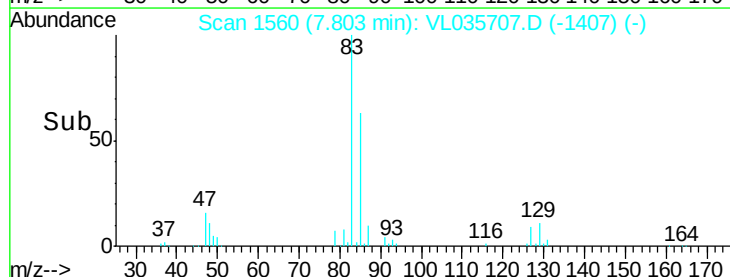
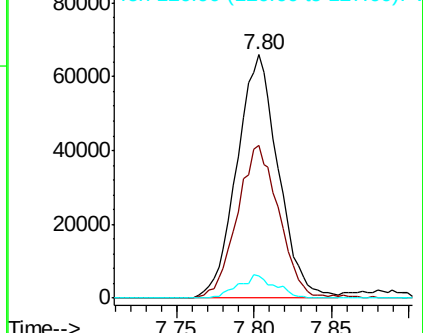
83 100

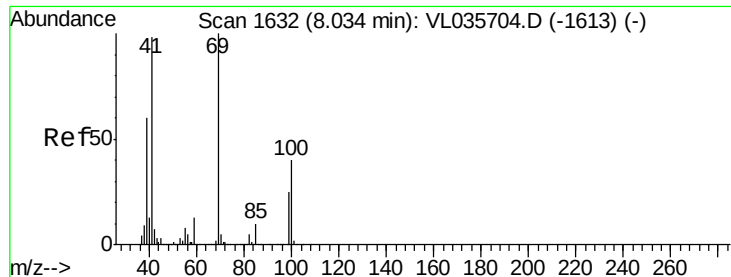
85 62.6 53.4 80.0

127 9.0 7.8 11.6



Abundance Ion 83.00 (82.70 to 83.70): VL0  
Ion 85.00 (84.70 to 85.70): VL0  
Ion 126.90 (126.60 to 127.60): V

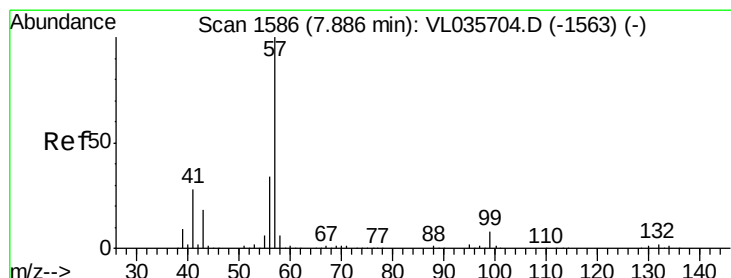
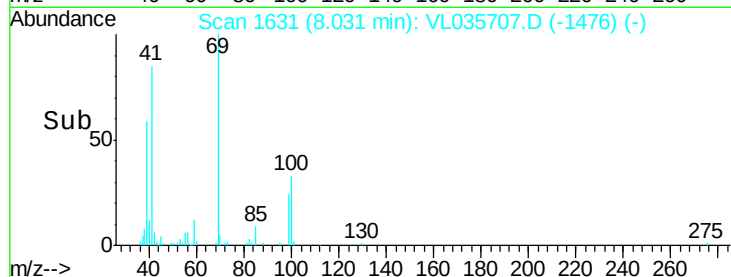
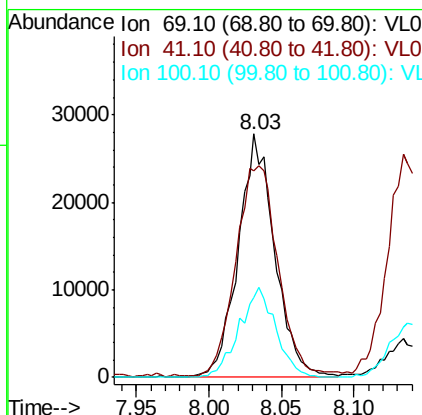
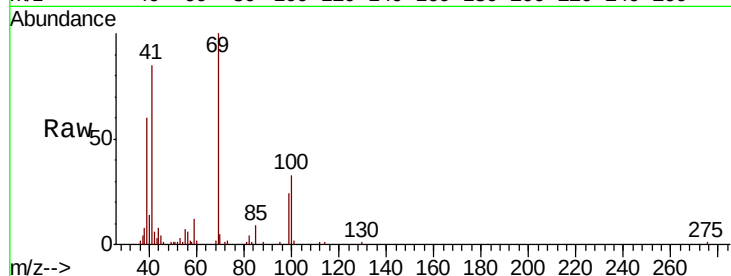




#43  
Methyl Methacrylate  
Concen: 0.398 ppbv  
RT: 8.03 min Scan# 1631  
Delta R.T. -0.00 min  
Lab File: VL035707.D  
Acq: 23 Sep 2020 5:16

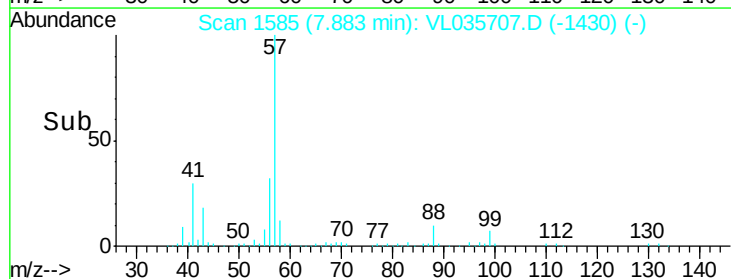
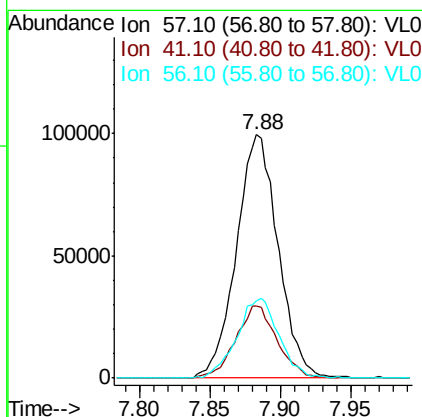
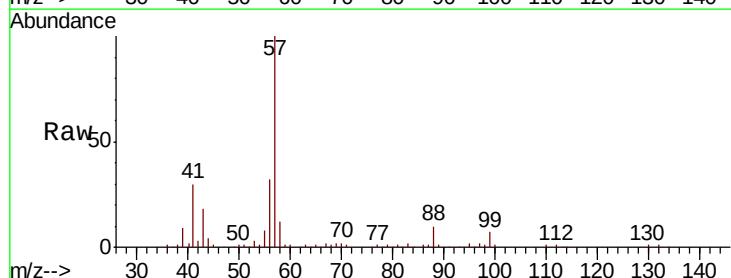
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

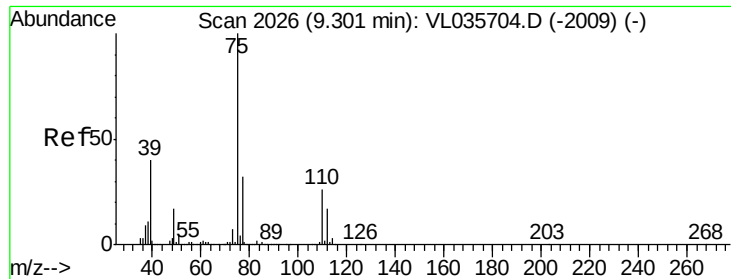
Tot Ion: 69 Resp: 48544  
Ion Ratio Lower Upper  
69 100  
41 103.0 79.8 119.6  
100 37.1 30.6 46.0



#44  
2,2,4-Trimethylpentane  
Concen: 0.489 ppbv  
RT: 7.88 min Scan# 1585  
Delta R.T. -0.00 min  
Lab File: VL035707.D  
Acq: 23 Sep 2020 5:16

Tgt Ion: 57 Resp: 204114  
Ion Ratio Lower Upper  
57 100  
41 30.0 21.2 31.8  
56 33.3 25.8 38.8





#45

t-1,3-Dichloropropene

Concen: 0.353 ppbv

RT: 9.29 min Scan# 2024

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

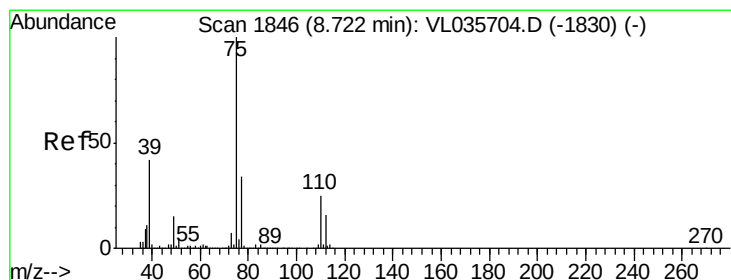
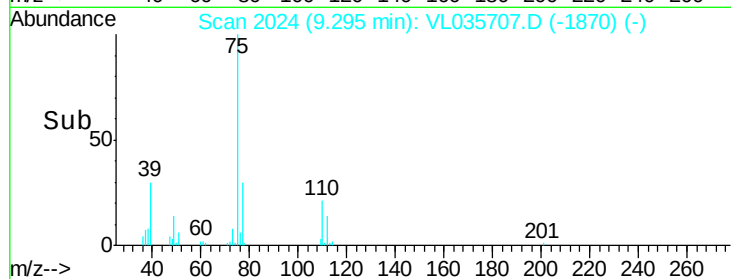
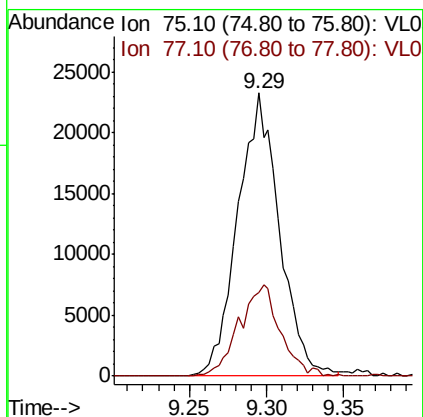
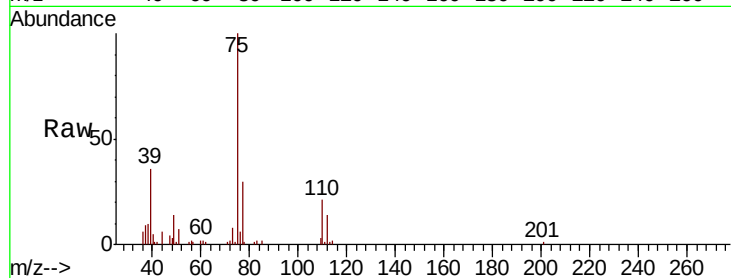
VSTDIC0.5

Tot Ion: 75 Resp: 43476

Ion Ratio Lower Upper

75 100

77 29.6 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 0.376 ppbv

RT: 8.72 min Scan# 1844

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

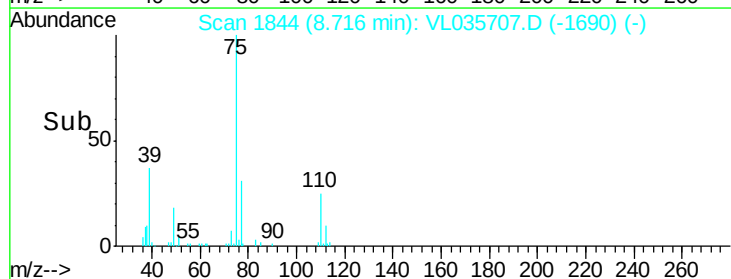
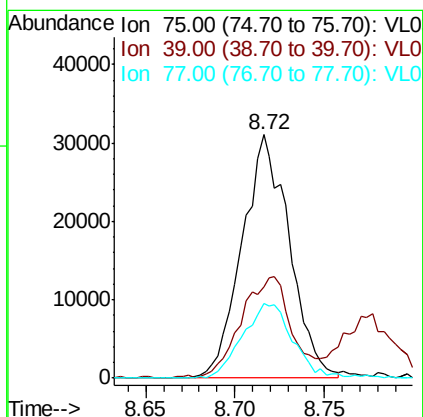
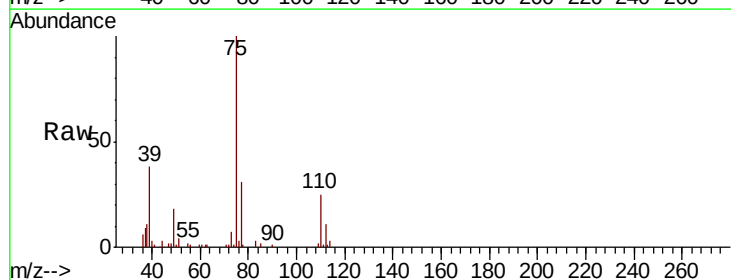
Tgt Ion: 75 Resp: 57567

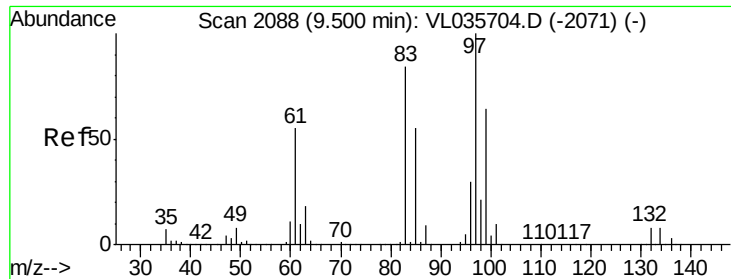
Ion Ratio Lower Upper

75 100

39 36.6 33.9 50.9

77 30.5 27.4 41.0

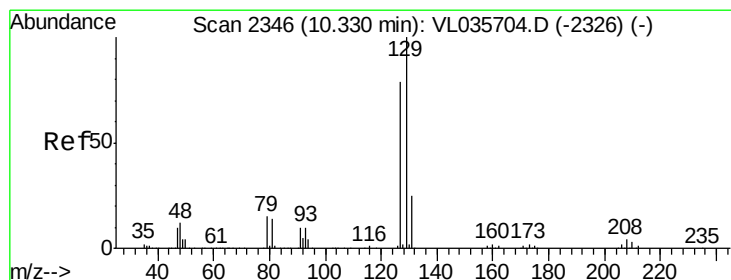
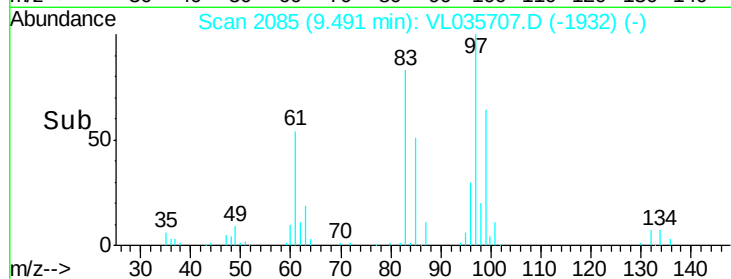
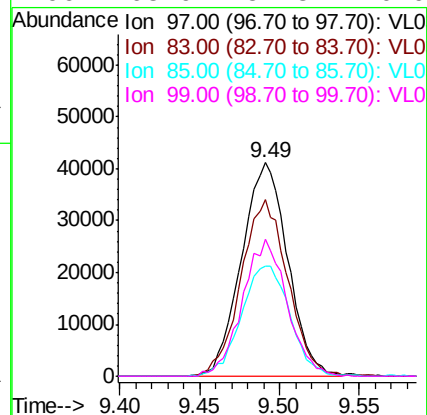
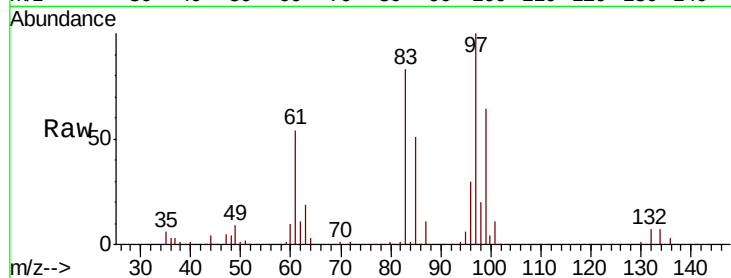




#47  
 1,1,2-Trichloroethane  
 Concen: 0.521 ppbv  
 RT: 9.49 min Scan# 2085  
 Delta R.T. -0.01 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

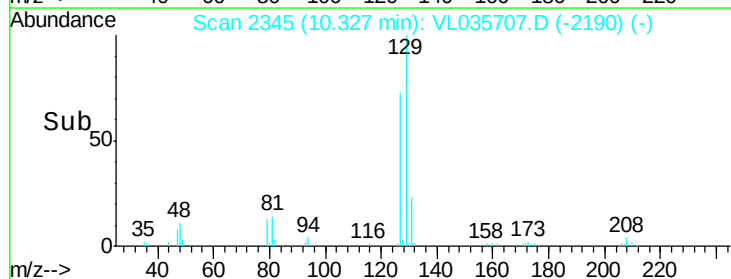
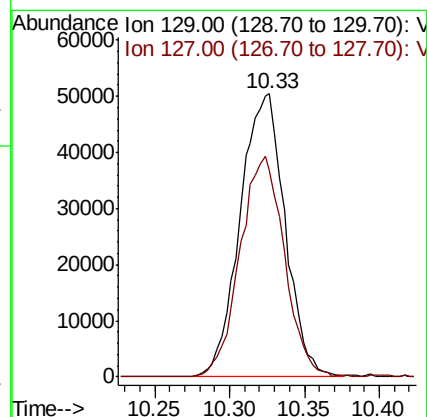
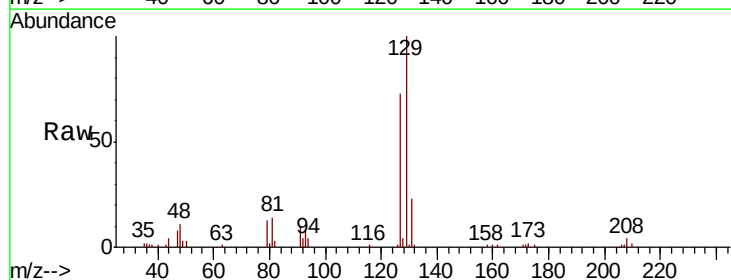
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

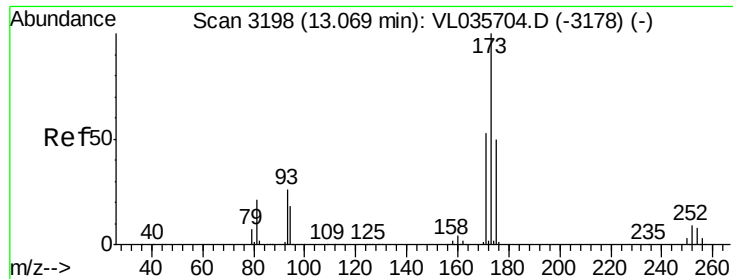
Tot Ion: 97 Resp: 81207  
 Ion Ratio Lower Upper  
 97 100  
 83 82.4 67.1 100.7  
 85 50.9 43.9 65.9  
 99 63.9 51.3 76.9



#48  
 Dibromochloromethane  
 Concen: 0.434 ppbv  
 RT: 10.33 min Scan# 2345  
 Delta R.T. -0.00 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

Tgt Ion: 129 Resp: 105481  
 Ion Ratio Lower Upper  
 129 100  
 127 77.0 39.4 118.1





#49

Bromoform

Concen: 0.378 ppbv

RT: 13.07 min Scan# 3197

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

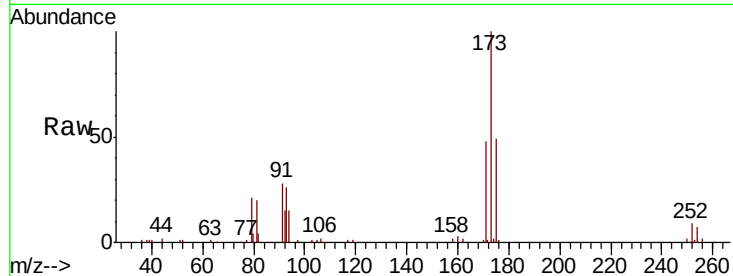
Tot Ion:173 Resp: 81981

Ion Ratio Lower Upper

173 100

175 49.2 39.8 59.6

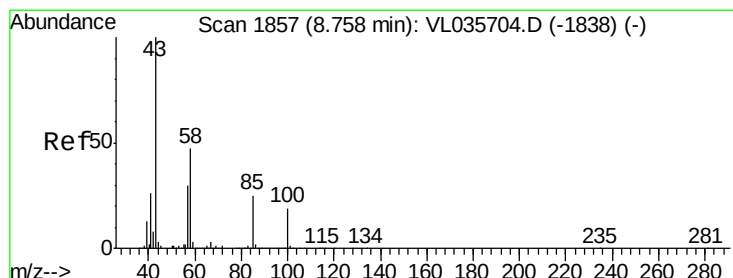
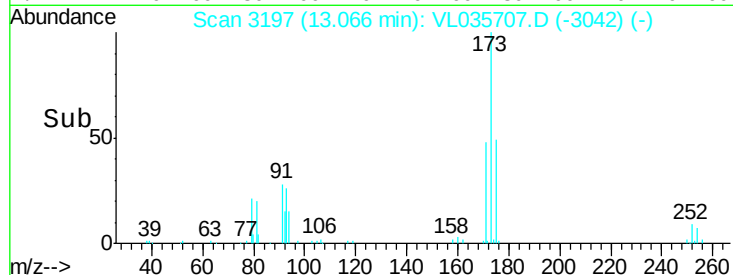
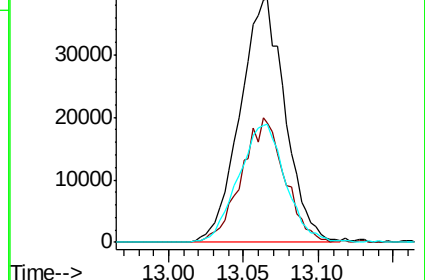
171 50.5 42.8 64.2



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.465 ppbv

RT: 8.77 min Scan# 1861

Delta R.T. 0.01 min

Lab File: VL035707.D

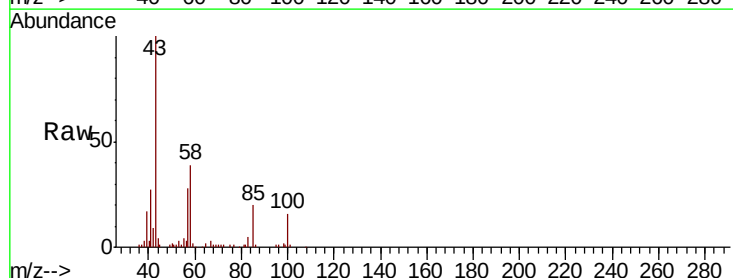
Acq: 23 Sep 2020 5:16

Tgt Ion: 43 Resp: 98431

Ion Ratio Lower Upper

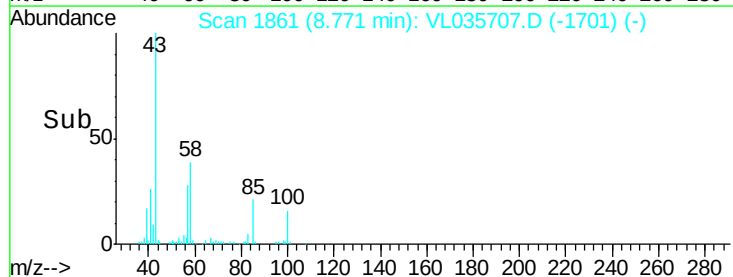
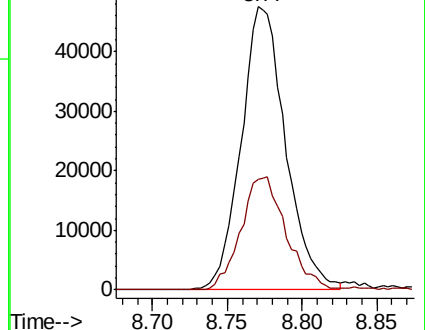
43 100

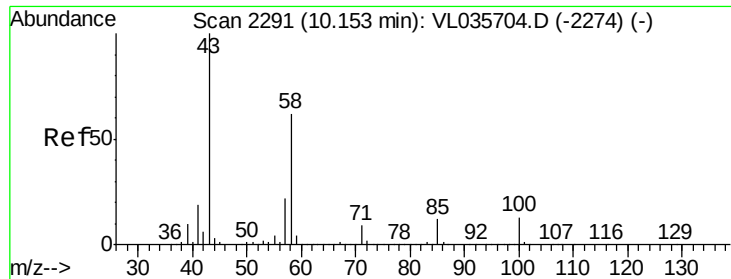
58 41.1 36.6 54.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

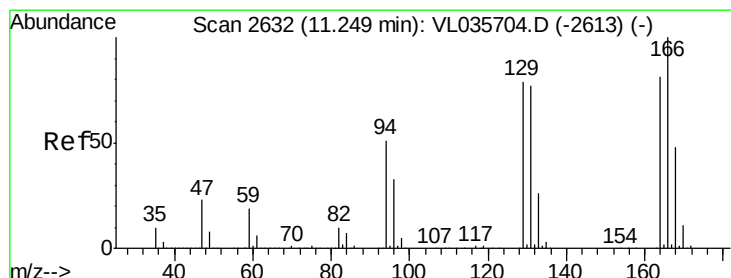
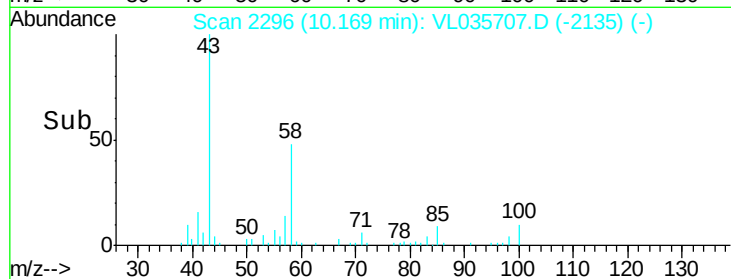
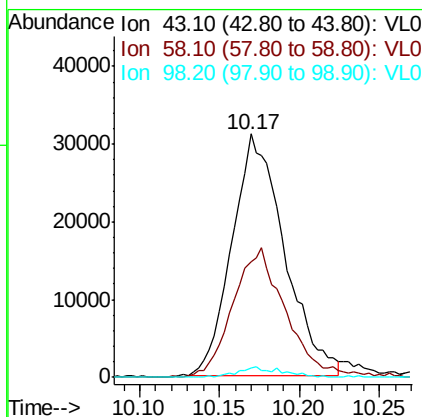
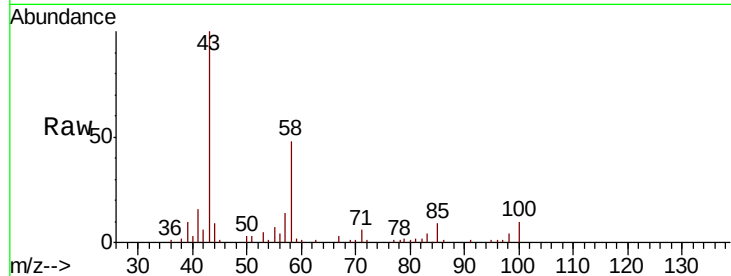




#51  
 2-Hexanone  
 Concen: 0.403 ppbv  
 RT: 10.17 min Scan# 2296  
 Delta R.T. 0.02 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

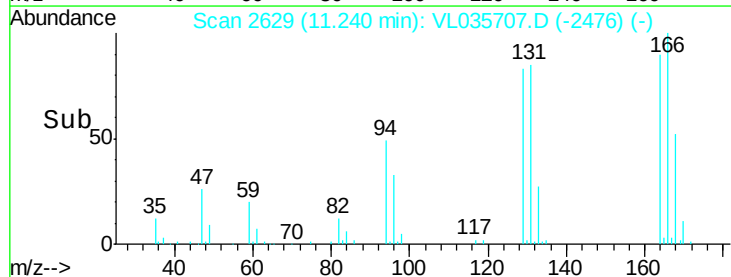
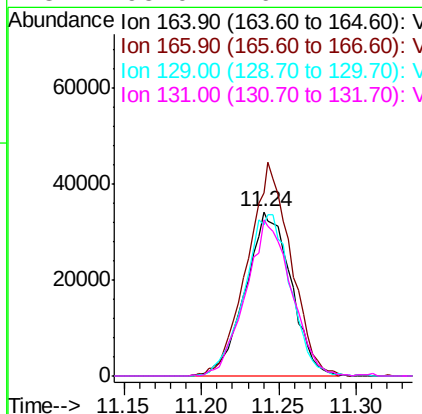
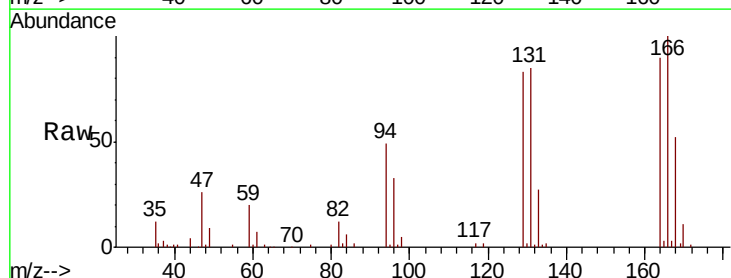
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

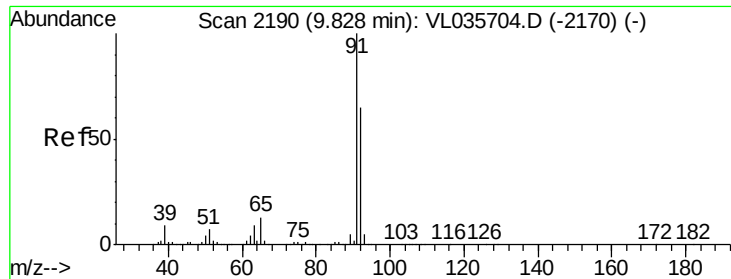
Tot Ion: 43 Resp: 69711  
 Ion Ratio Lower Upper  
 43 100  
 58 54.7 48.7 73.1  
 98 3.7 0.7 1.1#



#52  
 Tetrachloroethene  
 Concen: 0.391 ppbv  
 RT: 11.24 min Scan# 2629  
 Delta R.T. -0.01 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

Tgt Ion: 164 Resp: 69659  
 Ion Ratio Lower Upper  
 164 100  
 166 111.5 98.7 148.1  
 129 92.5 78.4 117.6  
 131 95.0 76.2 114.2





#53

Toluene

Concen: 0.366 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

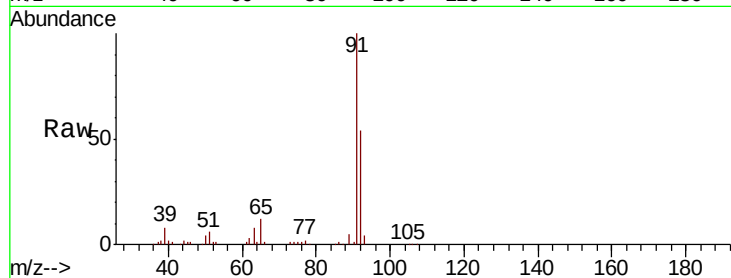
VSTDIC0.5

Tot Ion: 91 Resp: 143767

Ion Ratio Lower Upper

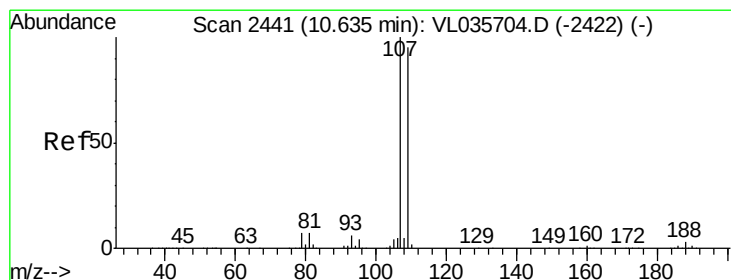
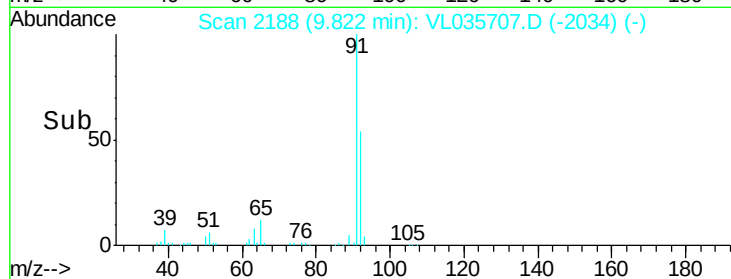
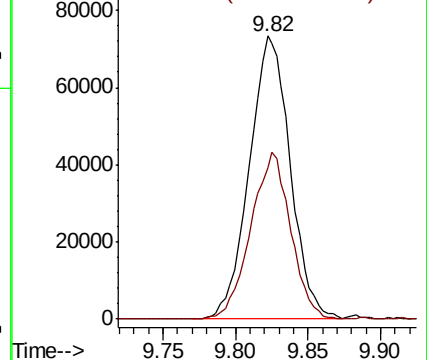
91 100

92 57.4 50.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.453 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL035707.D

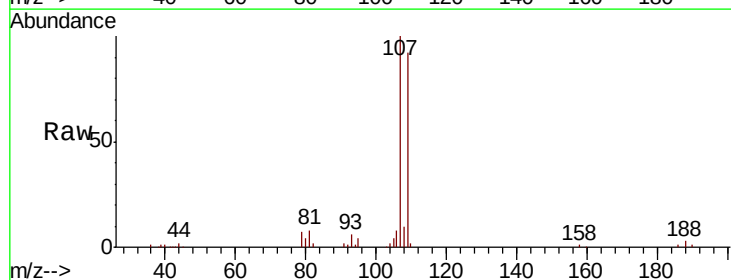
Acq: 23 Sep 2020 5:16

Tgt Ion: 107 Resp: 111137

Ion Ratio Lower Upper

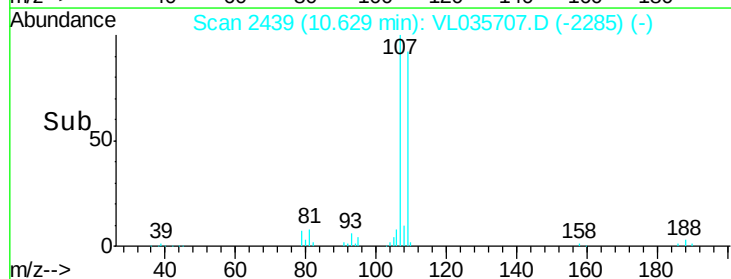
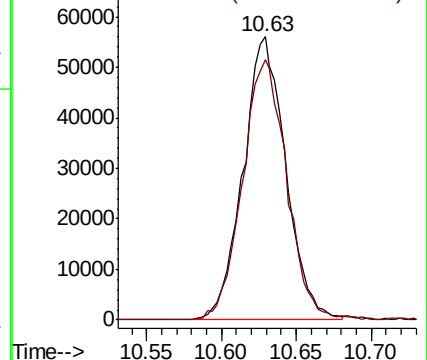
107 100

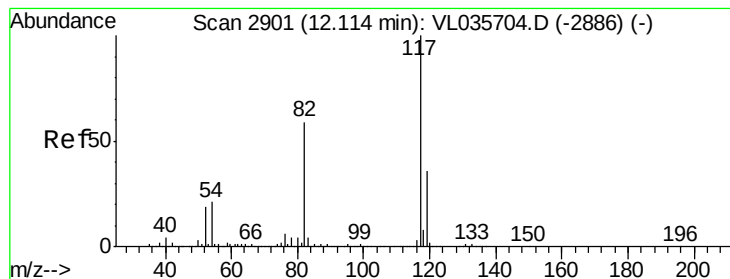
109 91.7 76.0 114.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

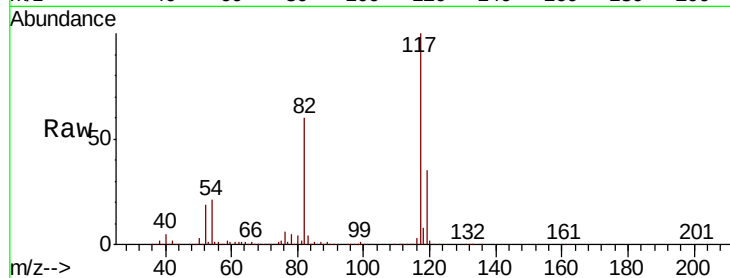
Tot Ion:117 Resp: 4682170

Ion Ratio Lower Upper

117 100

82 57.9 46.1 69.1

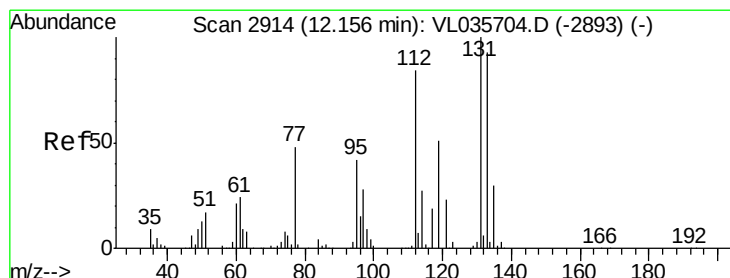
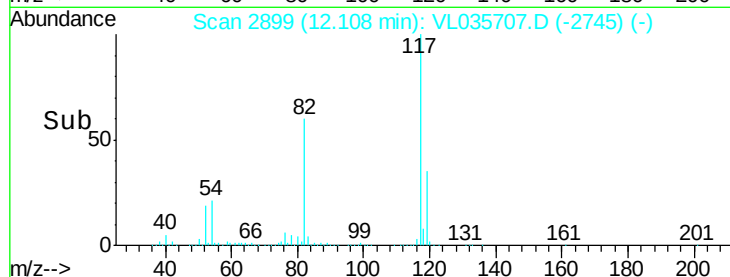
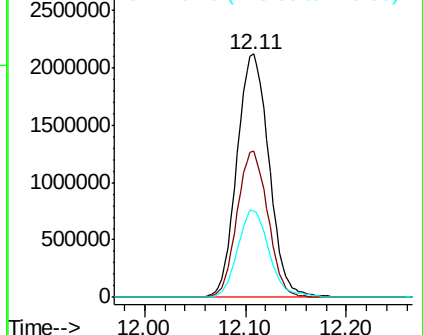
119 35.6 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.242 ppbv

RT: 12.15 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

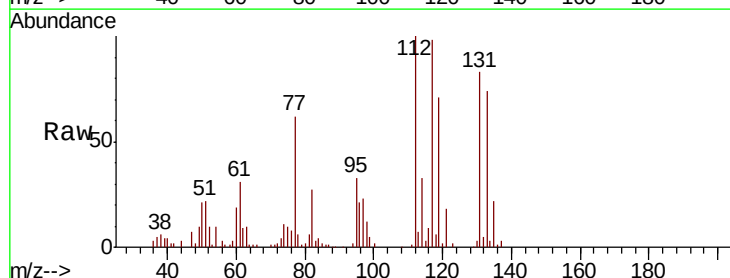
Tgt Ion:131 Resp: 46555

Ion Ratio Lower Upper

131 100

133 199.3 76.2 114.4#

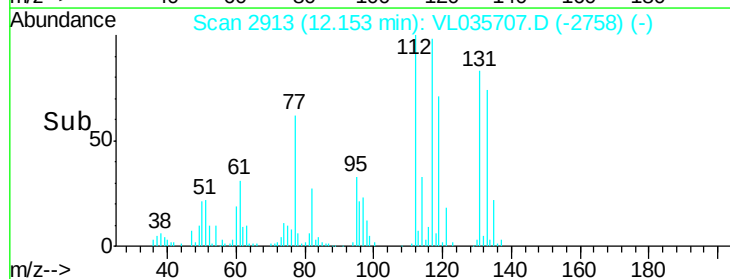
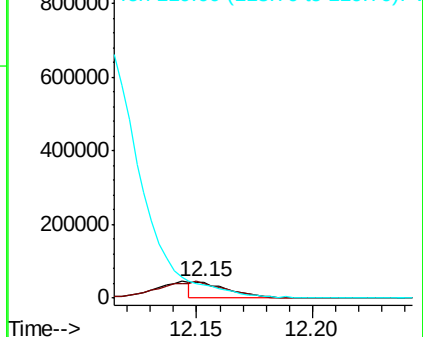
119 0.0 52.4 78.6#



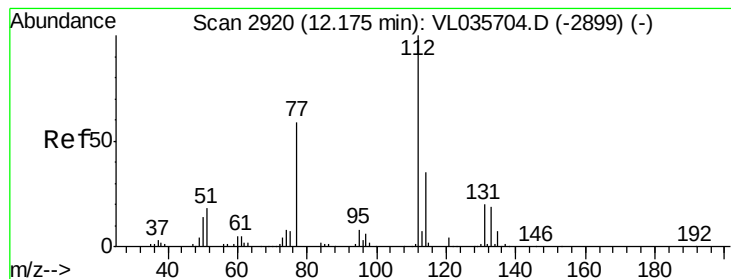
Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V







#57

Chlorobenzene

Concen: 0.543 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

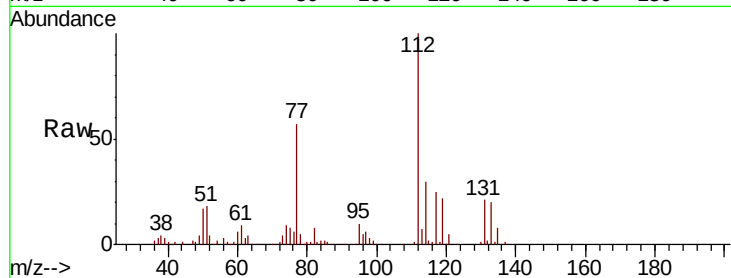
Tot Ion:112 Resp: 189694

Ion Ratio Lower Upper

112 100

77 56.2 48.2 72.2

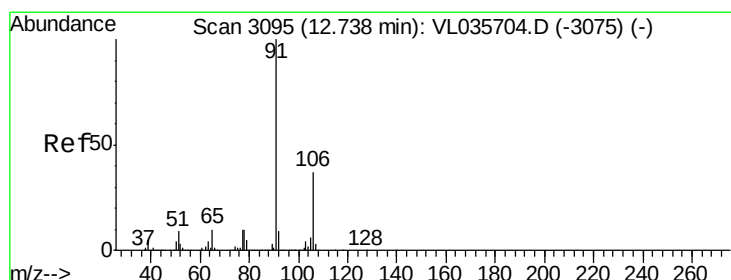
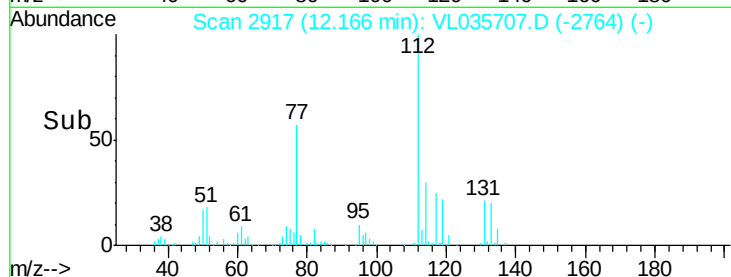
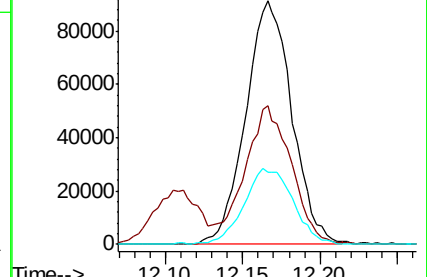
114 29.4 31.9 39.1#



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: 0.390 ppbv

RT: 12.74 min Scan# 3094

Delta R.T. -0.00 min

Lab File: VL035707.D

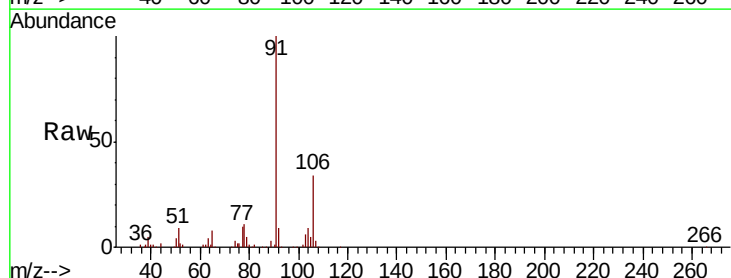
Acq: 23 Sep 2020 5:16

Tgt Ion: 91 Resp: 191943

Ion Ratio Lower Upper

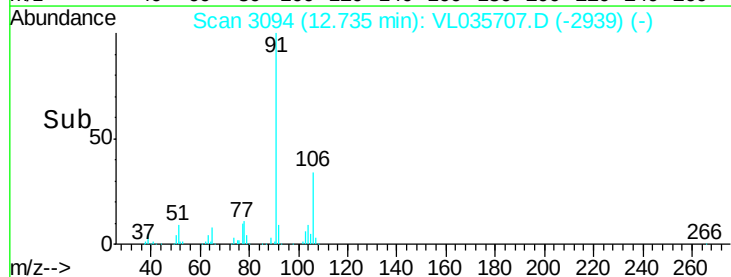
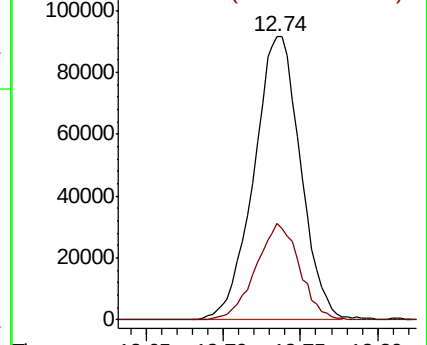
91 100

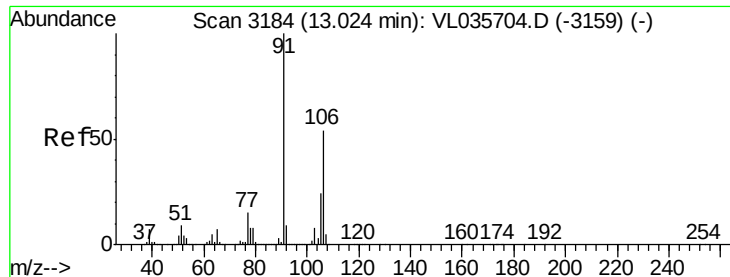
106 34.1 29.7 44.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

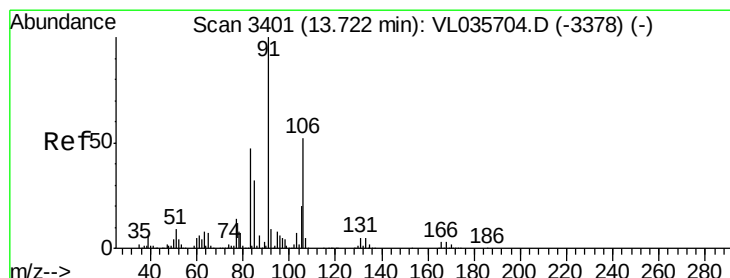
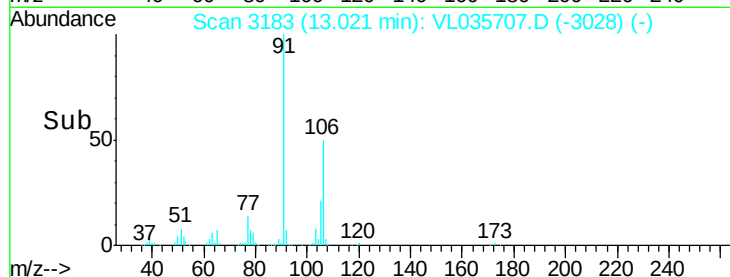
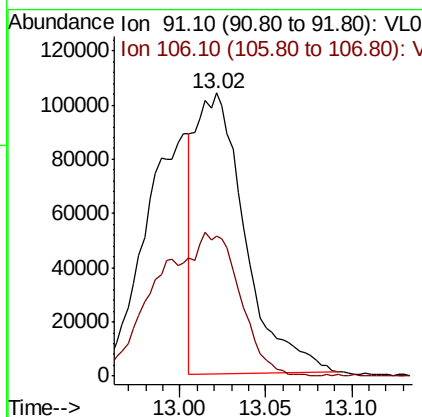
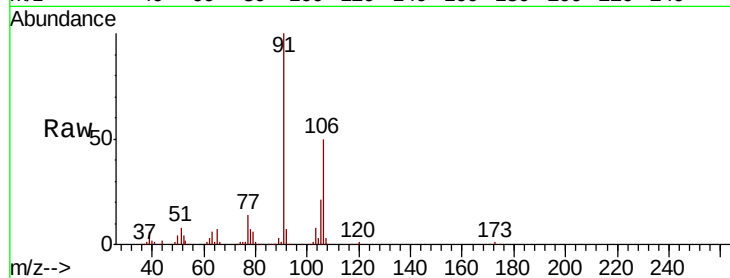




#59  
m/p-Xylene  
Concen: 0.503 ppbv  
RT: 13.02 min Scan# 3183  
Delta R.T. -0.00 min  
Lab File: VL035707.D  
Acq: 23 Sep 2020 5:16

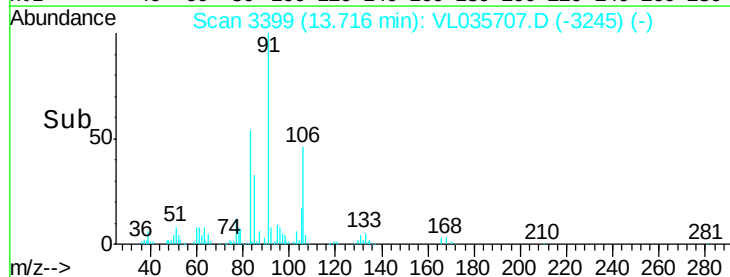
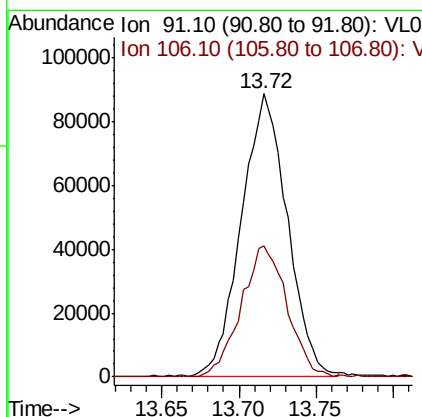
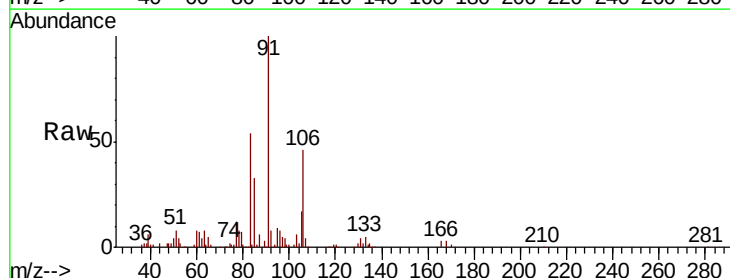
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

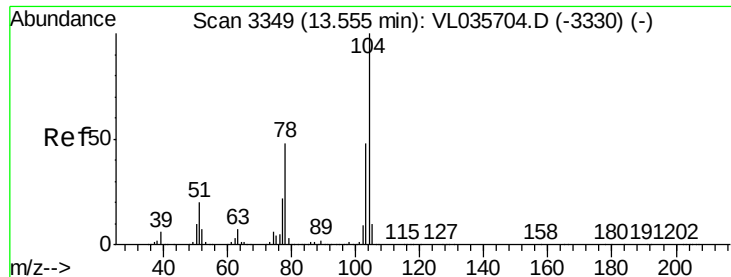
Tot Ion: 91 Resp: 208121  
Ion Ratio Lower Upper  
91 100  
106 85.7 41.4 62.0#



#60  
o-Xylene  
Concen: 0.437 ppbv  
RT: 13.72 min Scan# 3399  
Delta R.T. -0.01 min  
Lab File: VL035707.D  
Acq: 23 Sep 2020 5:16

Tgt Ion: 91 Resp: 181920  
Ion Ratio Lower Upper  
91 100  
106 46.8 25.0 75.0





#61

Stvrene

Concen: 0.317 ppbv

RT: 13.55 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

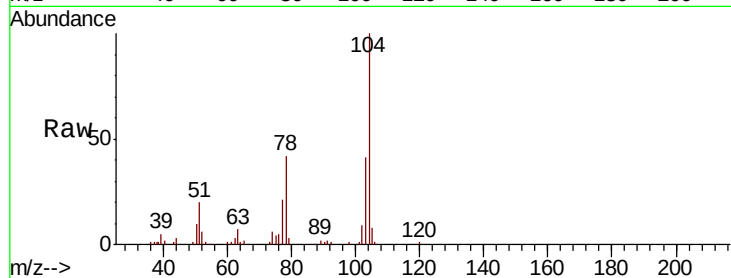
Tot Ion:104 Resp: 99662

Ion Ratio Lower Upper

104 100

78 44.6 37.2 55.8

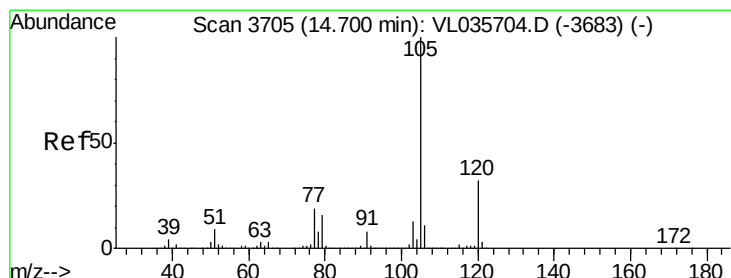
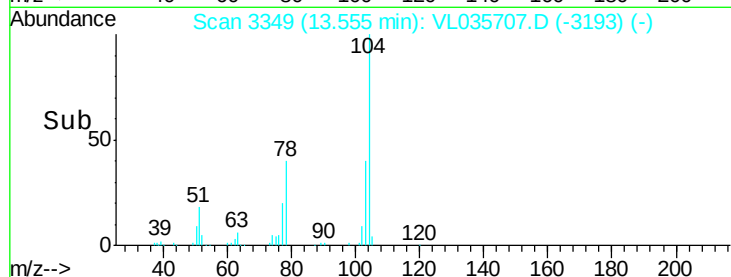
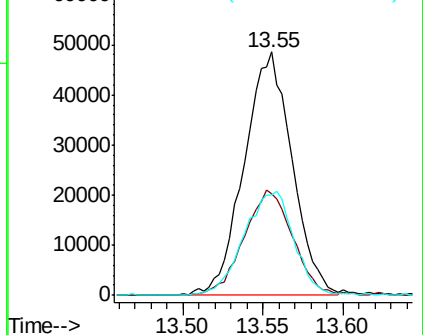
103 44.7 38.2 57.2



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: 0.462 ppbv

RT: 14.69 min Scan# 3703

Delta R.T. -0.01 min

Lab File: VL035707.D

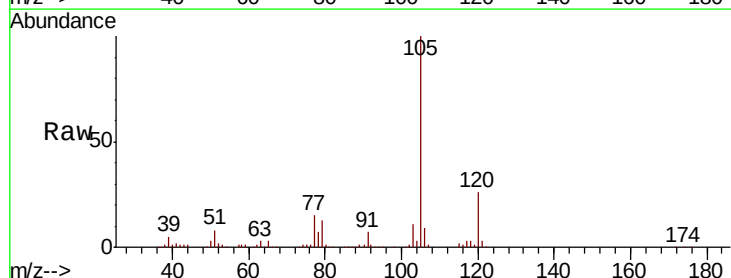
Acq: 23 Sep 2020 5:16

Tgt Ion:105 Resp: 305698

Ion Ratio Lower Upper

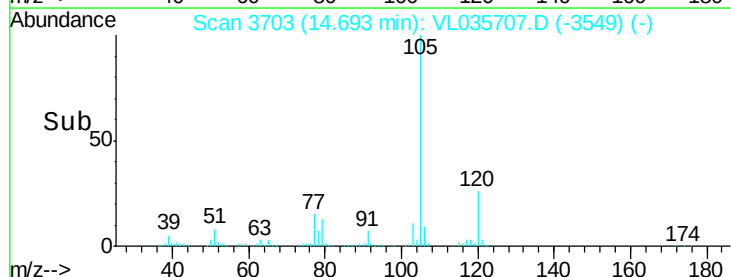
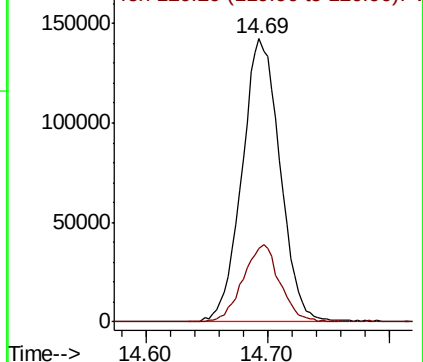
105 100

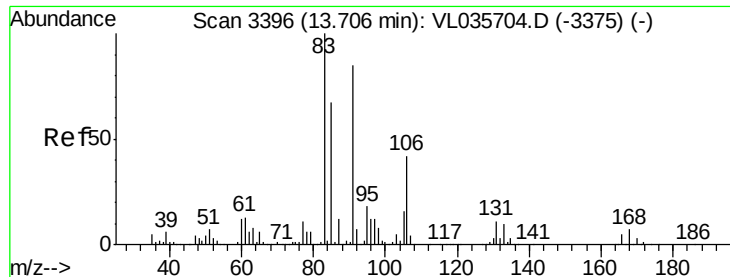
120 26.5 24.1 36.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

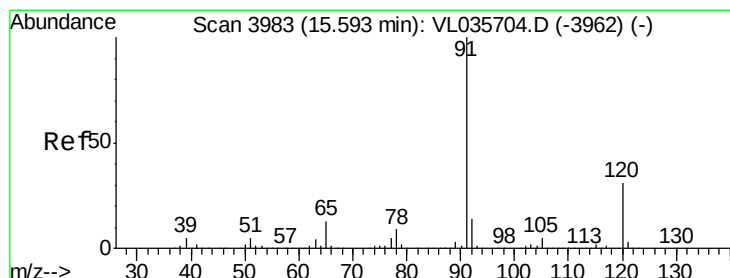
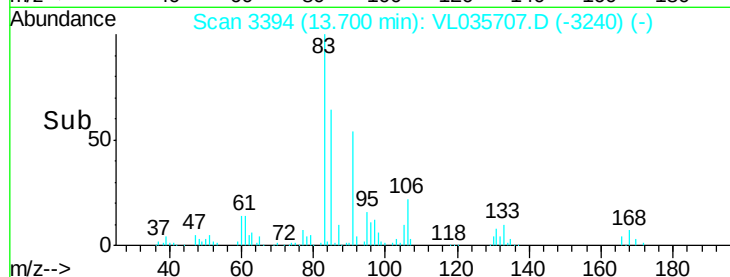
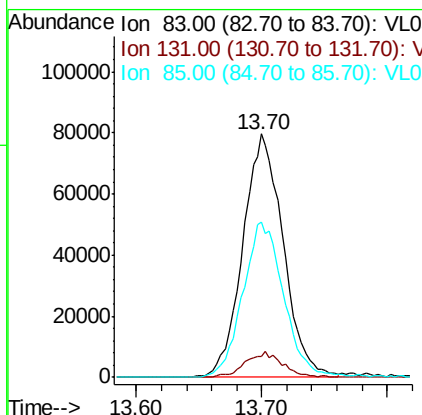
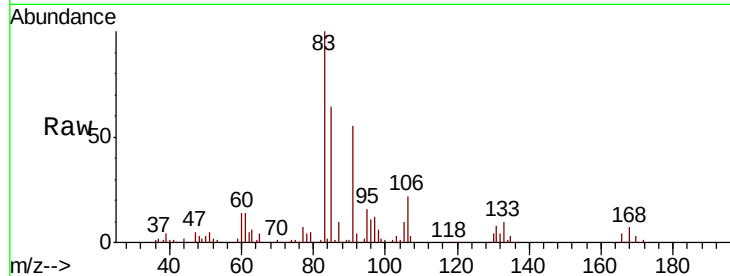




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.553 ppbv  
 RT: 13.70 min Scan# 3394  
 Delta R.T. -0.01 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

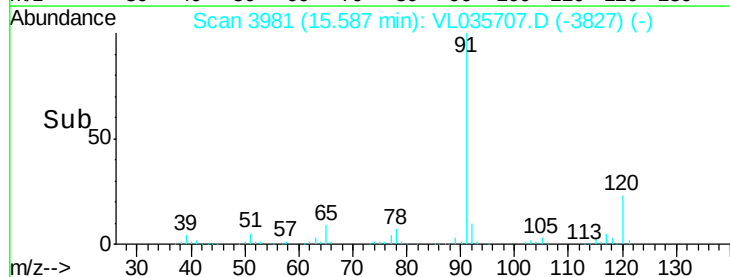
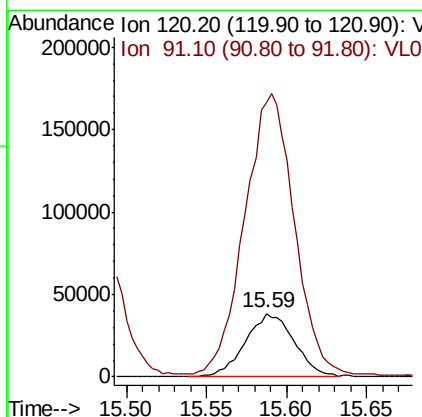
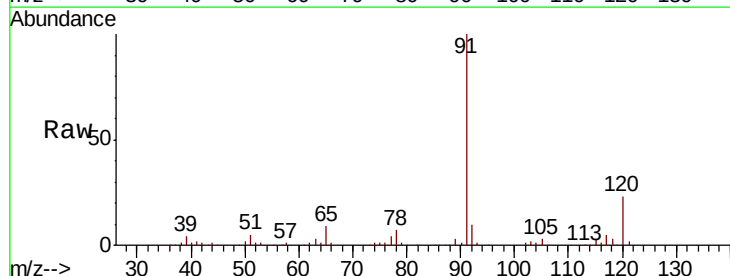
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

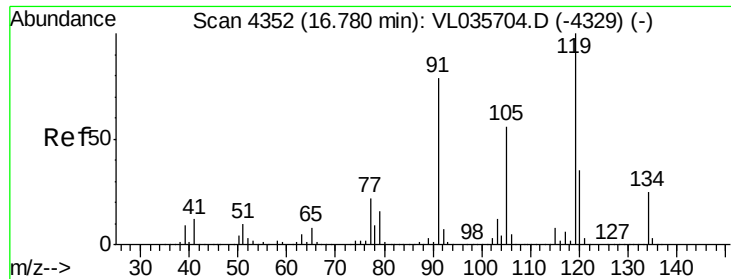
Tot Ion: 83 Resp: 177986  
 Ion Ratio Lower Upper  
 83 100  
 131 9.6 5.3 16.1  
 85 65.3 33.4 100.2



#64  
 n-propylbenzene  
 Concen: 0.401 ppbv  
 RT: 15.59 min Scan# 3981  
 Delta R.T. -0.01 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

Tgt Ion: 120 Resp: 80466  
 Ion Ratio Lower Upper  
 120 100  
 91 459.9 300.4 450.6#

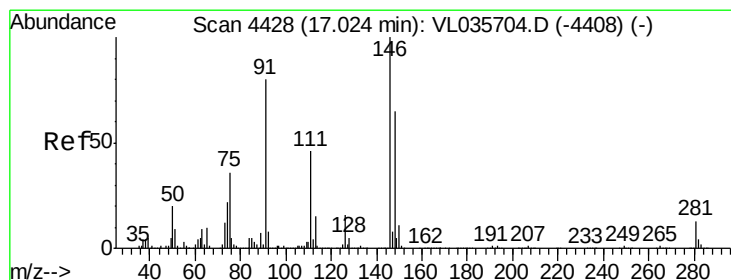
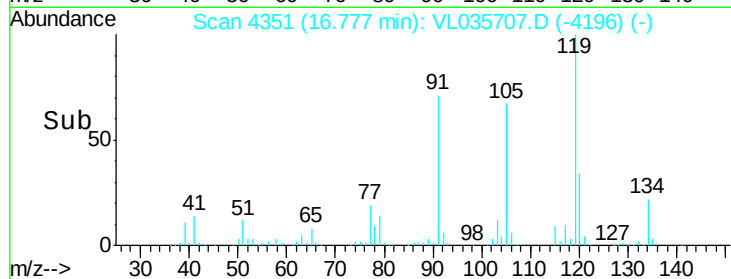
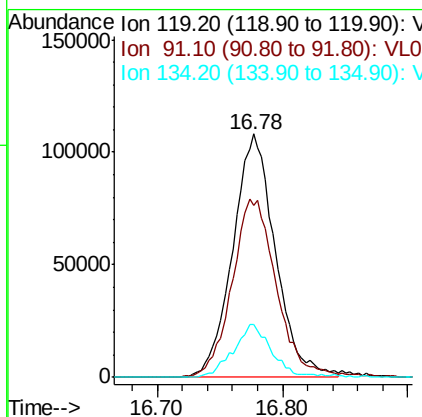
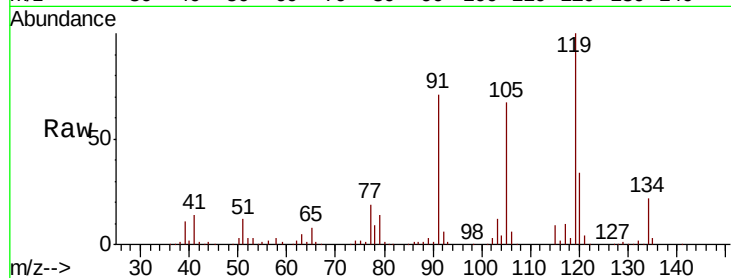




#65  
 tert-Butylbenzene  
 Concen: 0.411 ppbv  
 RT: 16.78 min Scan# 4351  
 Delta R.T. -0.00 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

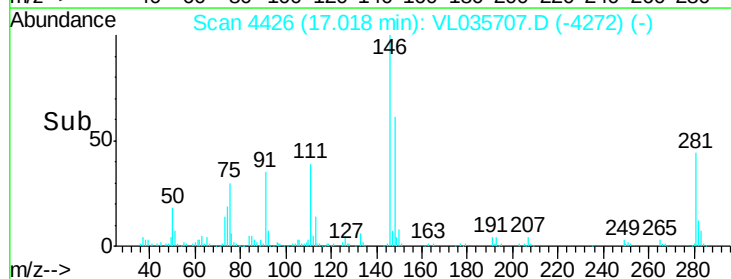
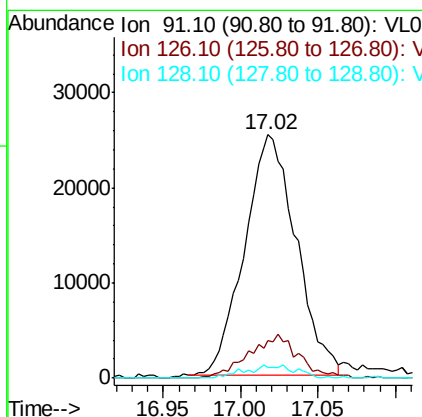
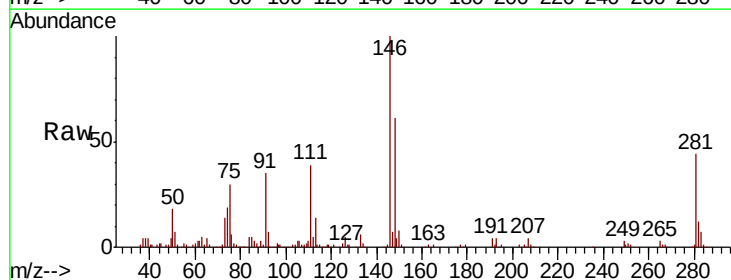
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

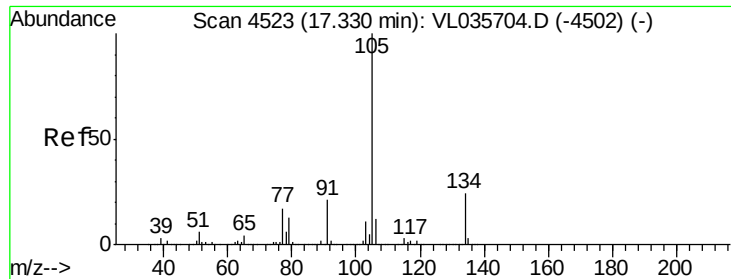
Tot Ion: 119 Resp: 251850  
 Ion Ratio Lower Upper  
 119 100  
 91 78.2 62.4 93.6  
 134 20.4 18.2 27.2



#66  
 Benzyl Chloride  
 Concen: 0.375 ppbv  
 RT: 17.02 min Scan# 4426  
 Delta R.T. -0.01 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

Tgt Ion: 91 Resp: 59084  
 Ion Ratio Lower Upper  
 91 100  
 126 17.5 15.3 22.9  
 128 5.3 5.0 7.4





#67

sec-Butylbenzene

Concen: 0.450 ppbv

RT: 17.33 min Scan# 4522

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

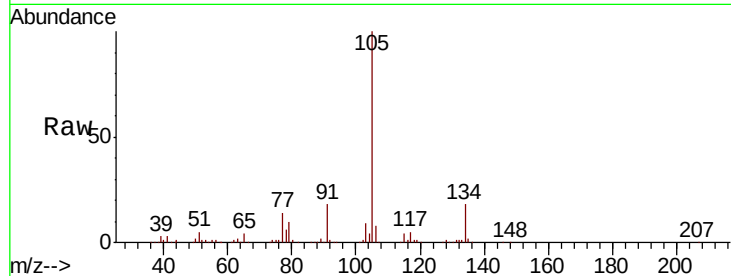
VSTDIC0.5

Tot Ion:105 Resp: 369474

Ion Ratio Lower Upper

105 100

134 18.2 17.6 26.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.33

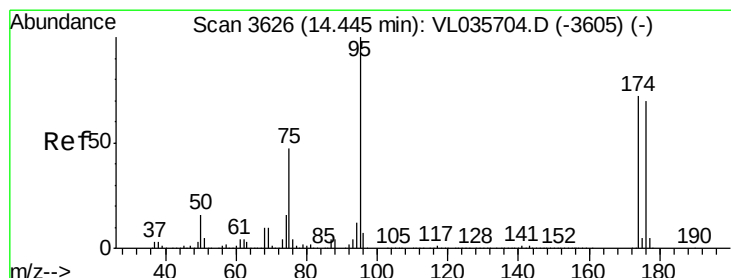
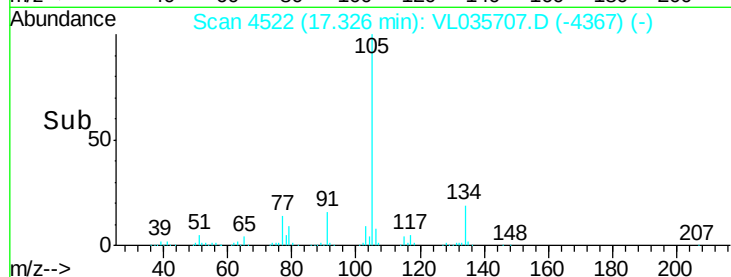
150000

100000

50000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.686 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

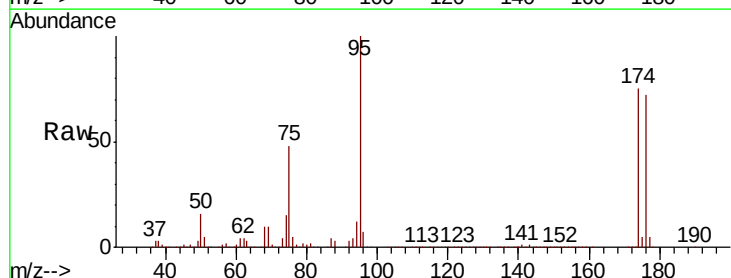
Tgt Ion: 95 Resp: 3595037

Ion Ratio Lower Upper

95 100

174 75.7 59.6 89.4

175 5.4 4.2 6.4



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

2000000

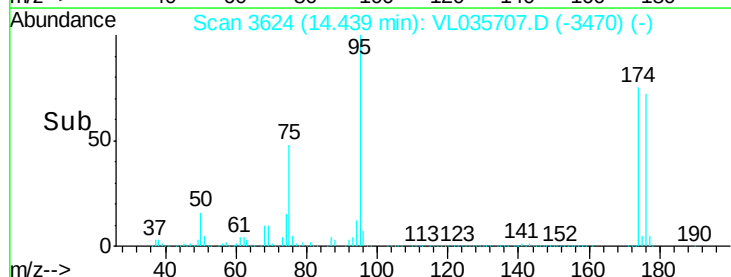
1500000

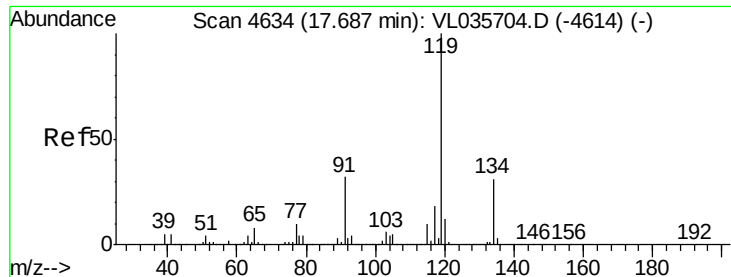
1000000

500000

0

Time-->

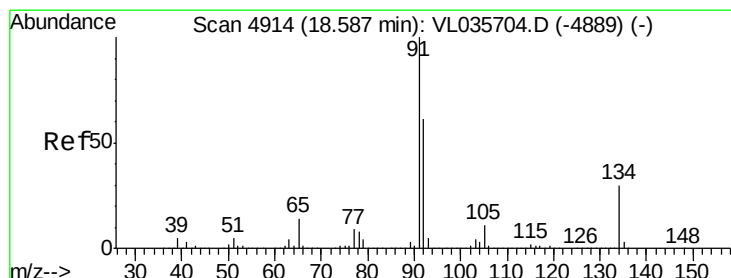
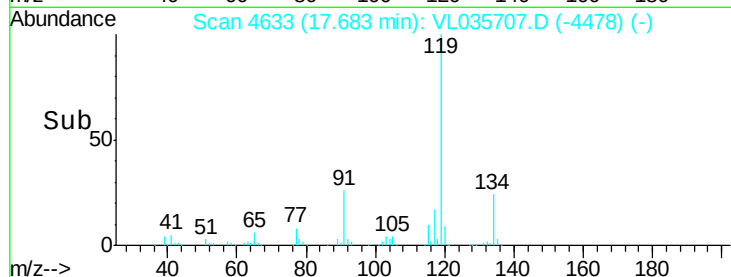
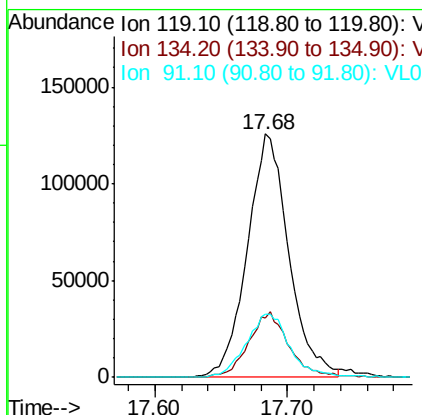
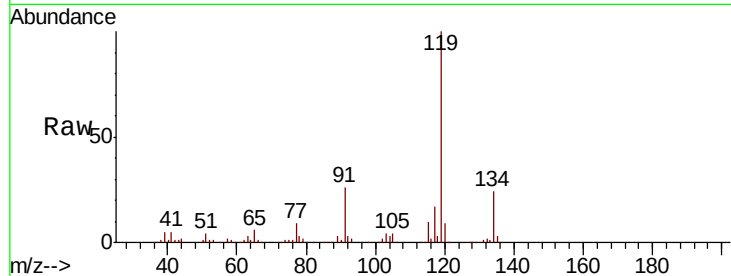




#69  
 p-Isopropyltoluene  
 Concen: 0.384 ppbv  
 RT: 17.68 min Scan# 4633  
 Delta R.T. -0.00 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

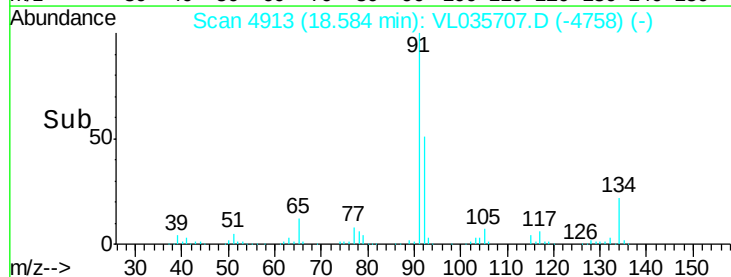
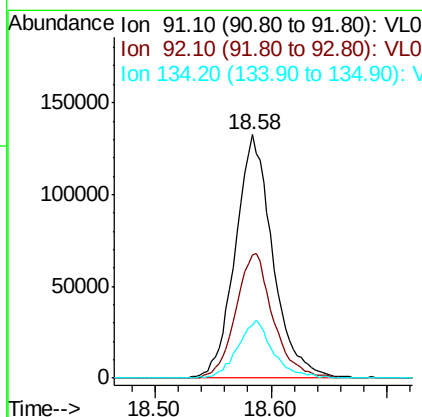
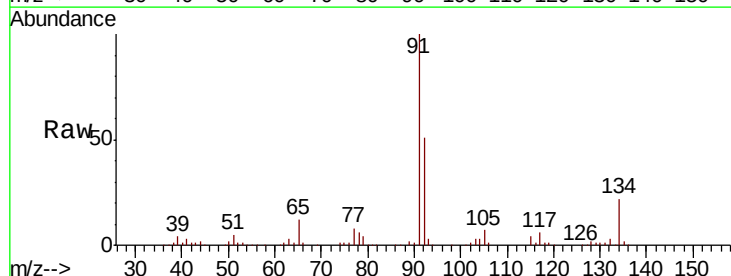
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

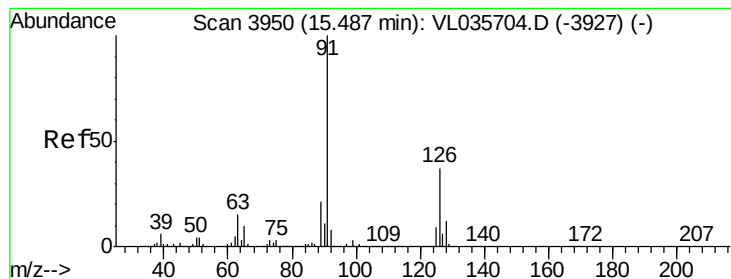
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 119   | Resp: | 274285 |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 134      | 26.3  | 23.9  | 35.9   |
| 91       | 27.8  | 23.8  | 35.6   |



#70  
 n-Butylbenzene  
 Concen: 0.427 ppbv  
 RT: 18.58 min Scan# 4913  
 Delta R.T. -0.00 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 296697 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 51.5  | 47.0  | 70.4   |
| 134      | 22.6  | 21.9  | 32.9   |





#71

2-Chlorotoluene

Concen: 0.412 ppbv

RT: 15.48 min Scan# 3948

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

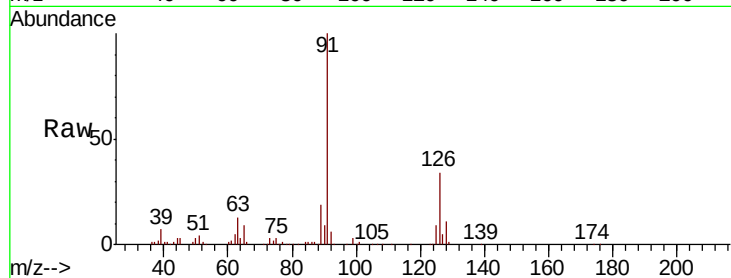
VSTDIC0.5

Tot Ion: 91 Resp: 199555

Ion Ratio Lower Upper

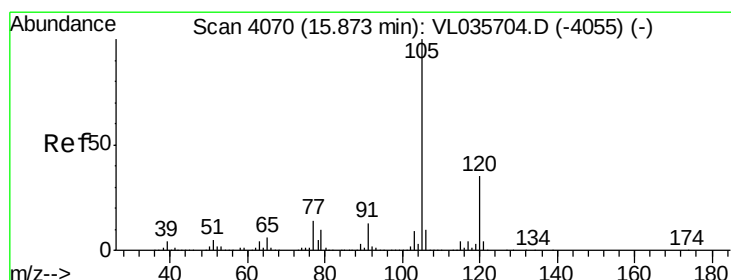
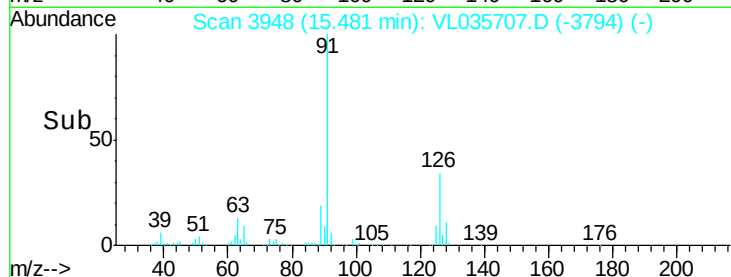
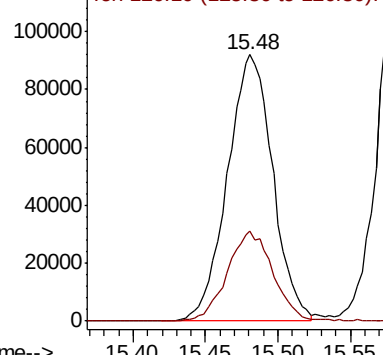
91 100

126 34.5 14.4 57.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.375 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Tgt Ion:105 Resp: 196340

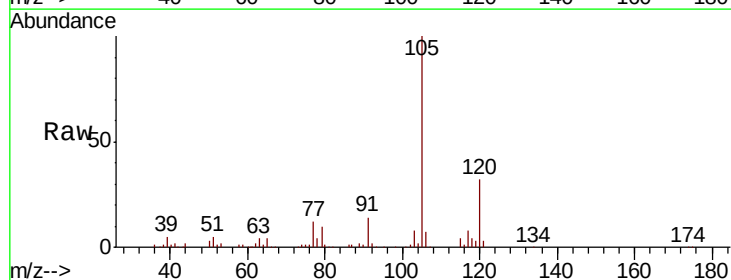
Ion Ratio Lower Upper

105 100

120 31.4 26.5 39.7

91 13.9 10.2 15.2

77 13.4 10.3 15.5

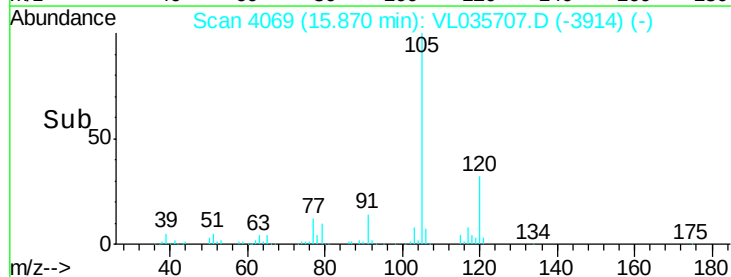
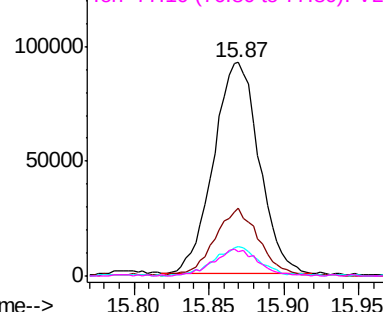


Abundance Ion 105.10 (104.80 to 105.80): V

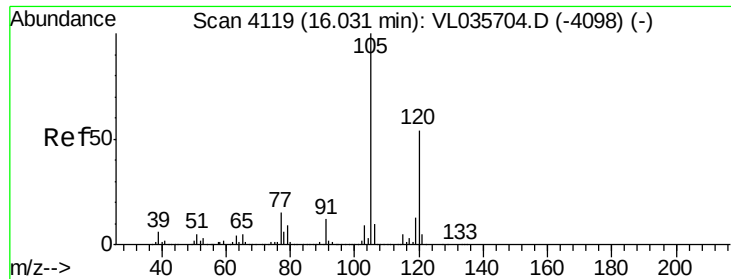
Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0







#73

1,3,5-Trimethylbenzene

Concen: 0.398 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

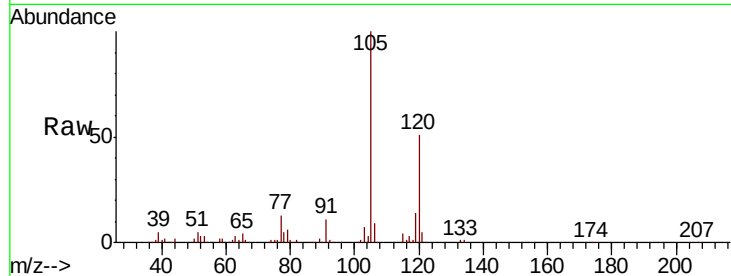
VSTDIC0.5

Tot Ion:105 Resp: 192774

Ion Ratio Lower Upper

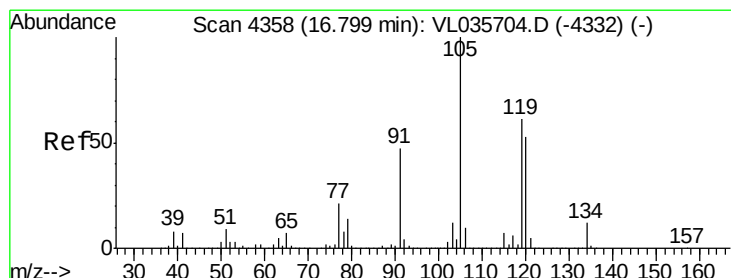
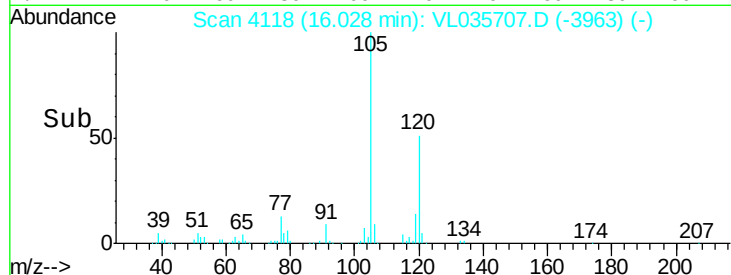
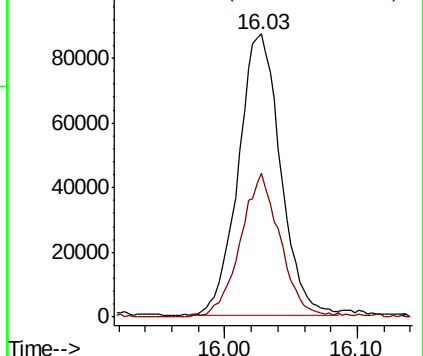
105 100

120 50.8 43.0 64.4



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: 0.453 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Tgt Ion:105 Resp: 241517

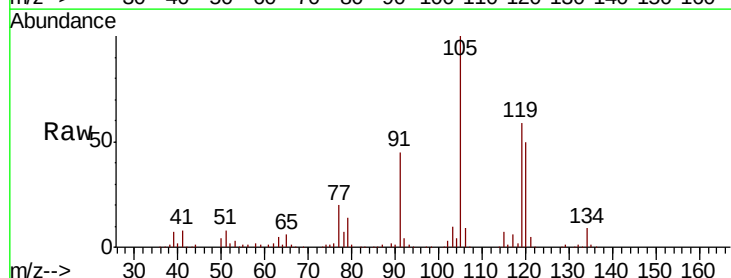
Ion Ratio Lower Upper

105 100

120 49.5 42.5 63.7

91 43.5 37.7 56.5

77 19.4 16.7 25.1

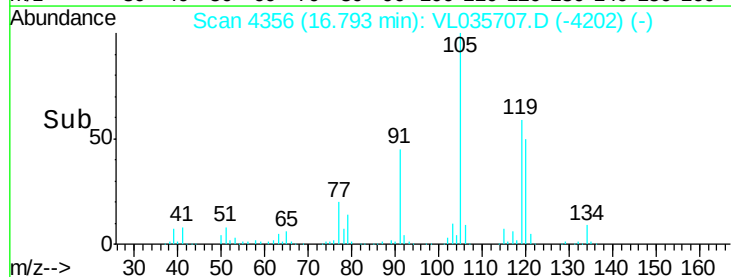
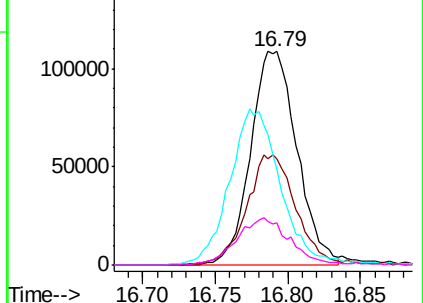


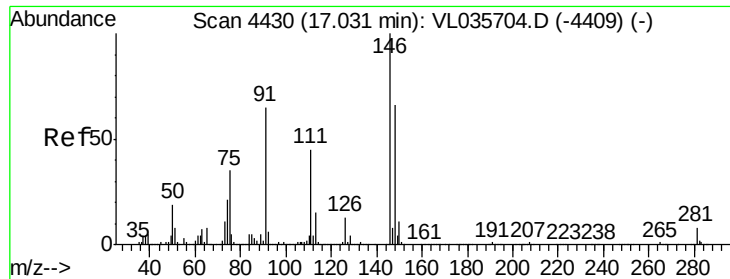
Abundance Ion 105.10 (104.80 to 105.80): V

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

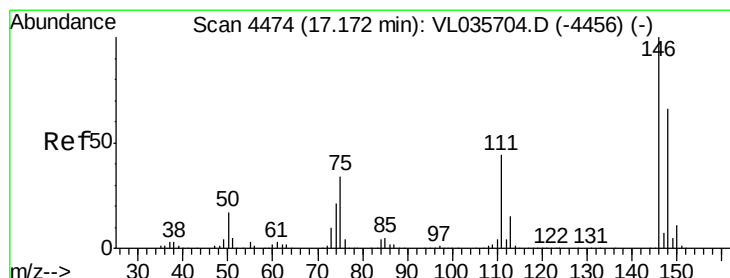
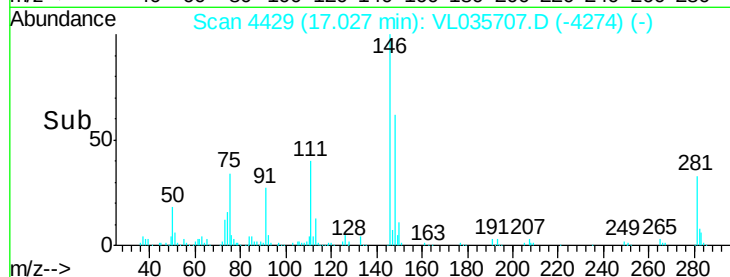
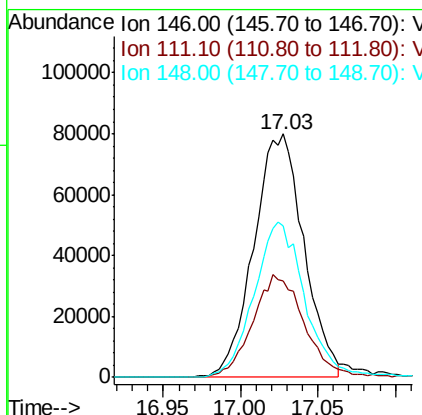
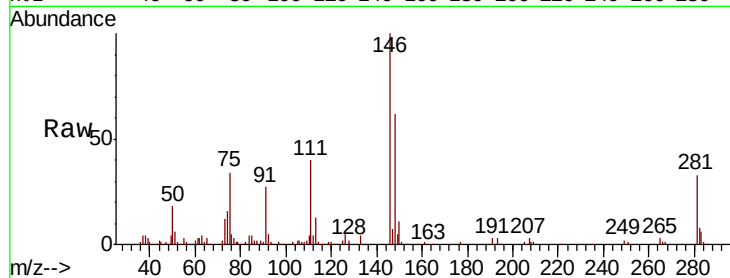




#75  
 1,3-Dichlorobenzene  
 Concen: 0.465 ppbv  
 RT: 17.03 min Scan# 4429  
 Delta R.T. -0.00 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

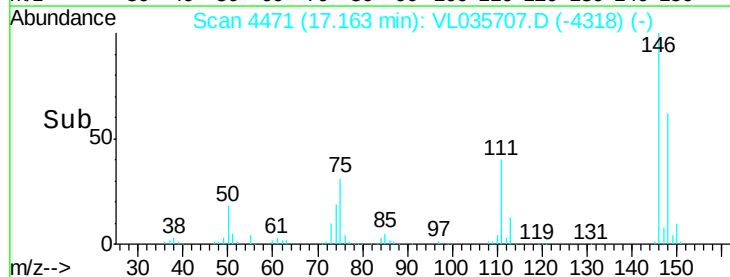
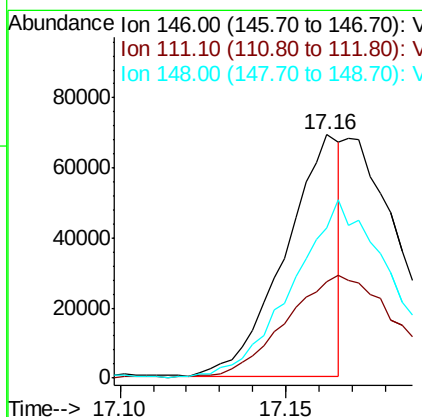
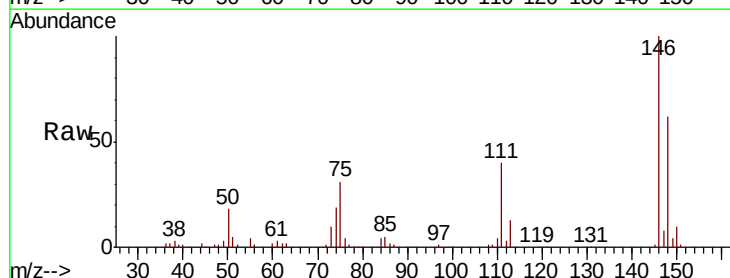
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

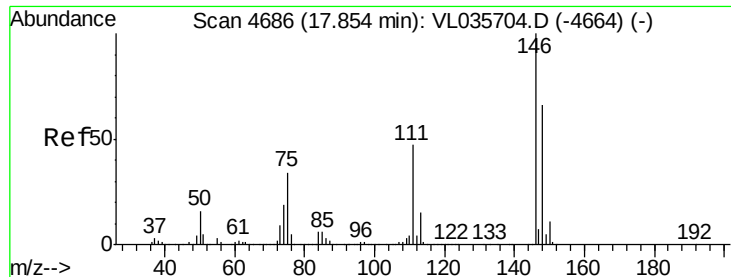
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.9  | 22.4  | 67.0  |
| 148     | 64.9  | 33.0  | 99.0  |



#76  
 1,4-Dichlorobenzene  
 Concen: 0.209 ppbv  
 RT: 17.16 min Scan# 4471  
 Delta R.T. -0.01 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 0.0   | 21.4  | 64.3# |
| 148     | 0.0   | 32.6  | 98.0# |

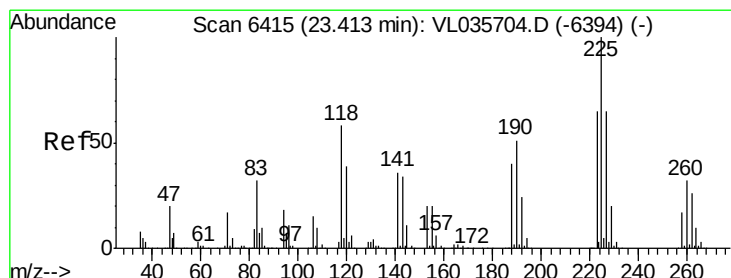
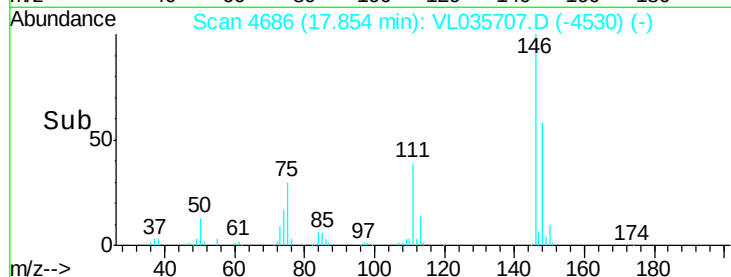
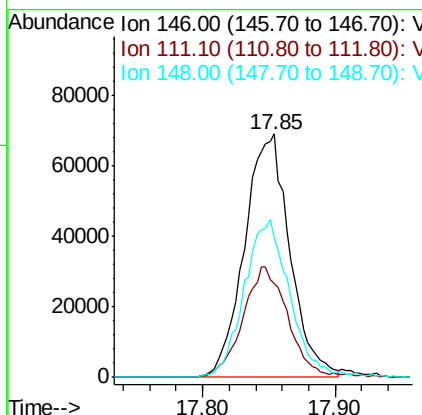
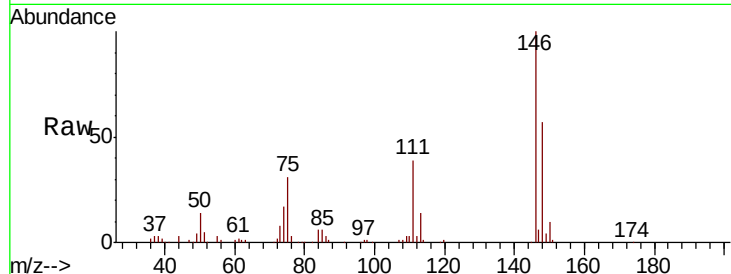




#77  
 1,2-Dichlorobenzene  
 Concen: 0.437 ppbv  
 RT: 17.85 min Scan# 4686  
 Delta R.T. 0.00 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

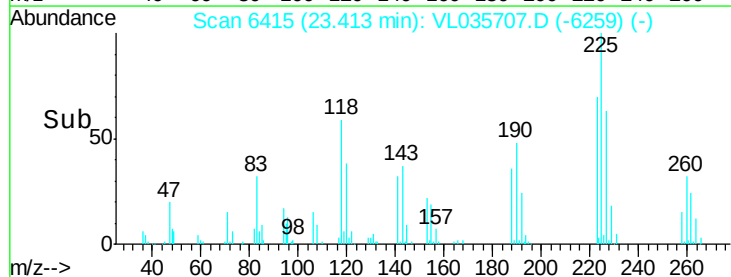
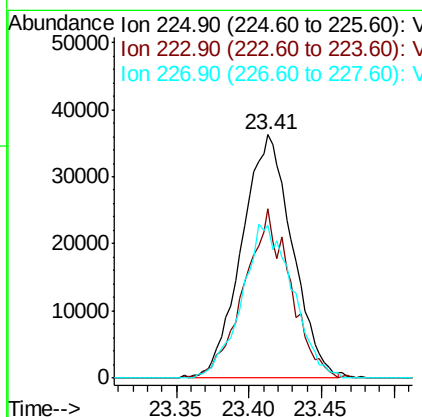
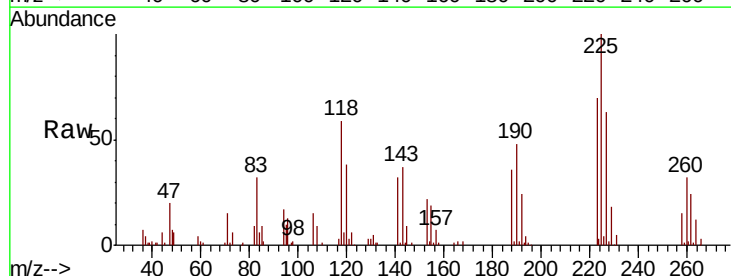
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

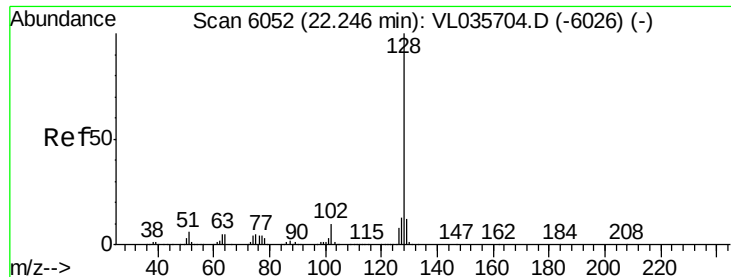
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 45.5  | 22.9  | 68.5  |
| 148     | 65.4  | 32.6  | 98.0  |



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 0.375 ppbv  
 RT: 23.41 min Scan# 6415  
 Delta R.T. 0.00 min  
 Lab File: VL035707.D  
 Acq: 23 Sep 2020 5:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.6  | 51.3  | 76.9  |
| 227     | 63.8  | 51.6  | 77.4  |





#79

Naphthalene

Concen: 0.159 ppbv

RT: 22.25 min Scan# 6054

Delta R.T. 0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

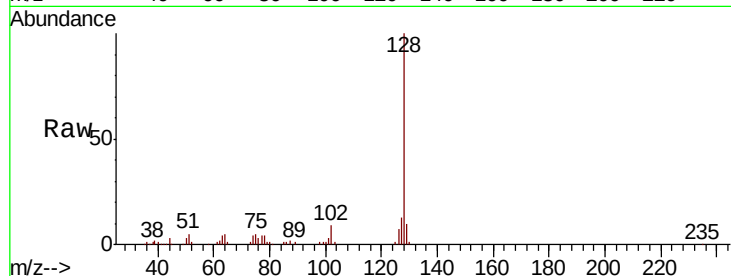
Tot Ion:128 Resp: 90841

Ion Ratio Lower Upper

128 100

127 12.5 10.6 15.8

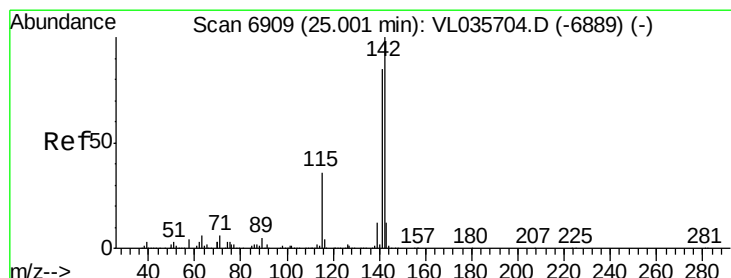
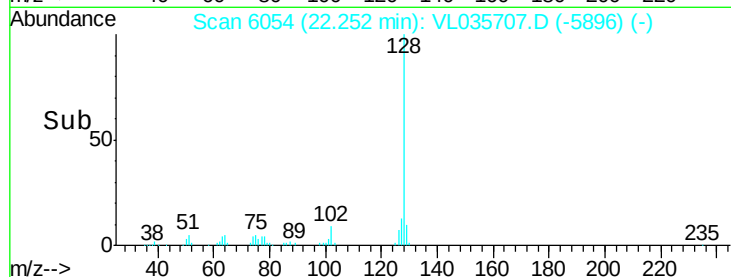
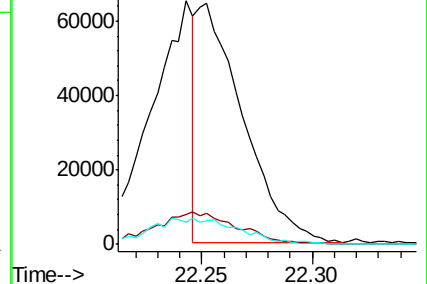
129 10.0 9.4 14.0



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: 0.130 ppbv

RT: 25.00 min Scan# 6910

Delta R.T. 0.00 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

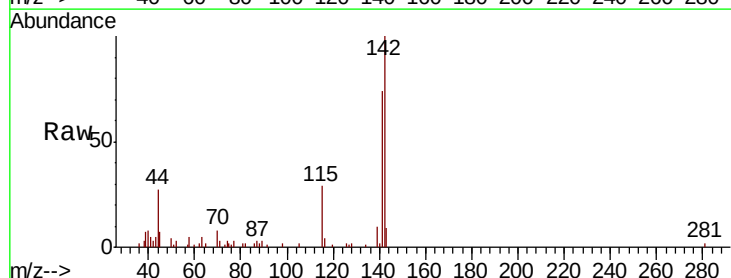
Tgt Ion:142 Resp: 24230

Ion Ratio Lower Upper

142 100

141 91.1 68.2 102.4

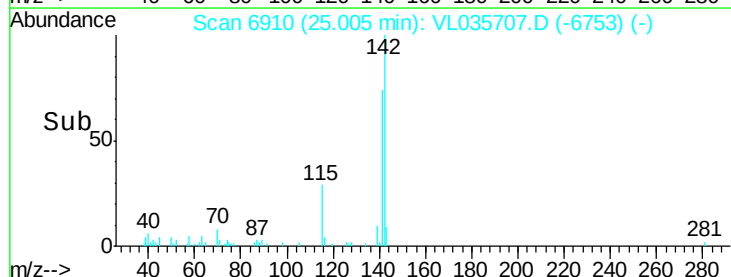
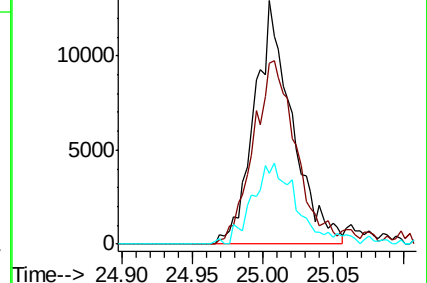
115 40.7 27.8 41.6

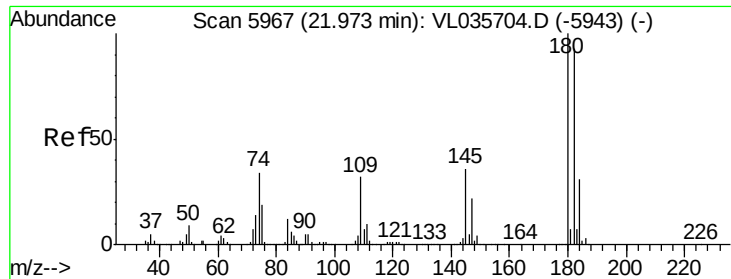


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.127 ppbv

RT: 21.96 min Scan# 5964

Delta R.T. -0.01 min

Lab File: VL035707.D

Acq: 23 Sep 2020 5:16

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

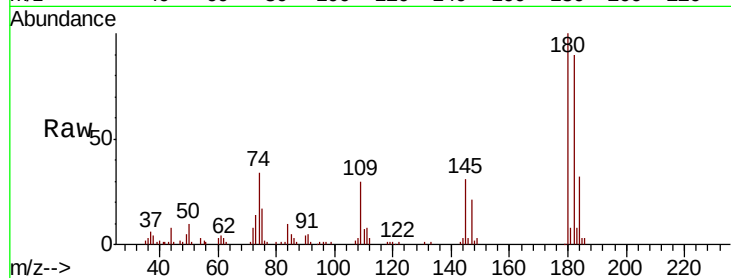
Tot Ion:180 Resp: 42580

Ion Ratio Lower Upper

180 100

182 0.0 76.2 114.2#

184 0.0 24.6 37.0#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

