

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL111919\  
 Data File : VL034399.D  
 Acq On : 20 Nov 2019 4:06  
 Operator : SY/AP  
 Sample : VSTDCCC010  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

Quant Time: Nov 20 06:22:19 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL111919AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 20 03:30:54 2019  
 QLast Update : Wed Nov 20 03:30:54 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.68  | 49   | 981318   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.21  | 114  | 1937534  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.14 | 117  | 2100349  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.48  | 95    | 1734518  | 9.82     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.20% |

| Target Compounds               |      |     |         |        | Qvalue    |
|--------------------------------|------|-----|---------|--------|-----------|
| 2) Dichlorodifluoromethane     | 3.02 | 85  | 1851103 | 10.427 | ppbv 99   |
| 3) Chlorodifluoromethane       | 2.96 | 51  | 1109710 | 9.063  | ppbv 100  |
| 4) Chloromethane               | 3.11 | 50  | 665709  | 9.218  | ppbv 99   |
| 5) Vinyl Chloride              | 3.23 | 62  | 608483  | 8.993  | ppbv 92   |
| 6) Bromomethane                | 3.45 | 94  | 326061  | 9.577  | ppbv 89   |
| 7) Chloroethane                | 3.54 | 64  | 231189  | 9.413  | ppbv 96   |
| 8) Dichlorotetrafluoroethane   | 3.16 | 85  | 1421873 | 8.919  | ppbv 99   |
| 9) Propene                     | 2.98 | 41  | 496958  | 9.142  | ppbv 99   |
| 10) Heptane                    | 8.16 | 43  | 1323076 | 9.432  | ppbv 99   |
| 11) Trichlorofluoromethane     | 3.94 | 101 | 1604992 | 9.084  | ppbv 95   |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101 | 1066104 | 9.086  | ppbv 100  |
| 13) Ethanol                    | 3.59 | 45  | 116970  | 7.347  | ppbv 94   |
| 14) Bromoethene                | 3.73 | 108 | 452318  | 9.481  | ppbv 98   |
| 15) Acetone                    | 3.83 | 43  | 1247578 | 8.878  | ppbv 100  |
| 16) 1,3-Butadiene              | 3.31 | 39  | 578598  | 9.453  | ppbv 100  |
| 17) tert-Butyl alcohol         | 4.29 | 59  | 1101613 | 9.326  | ppbv 100  |
| 18) 1,1-Dichloroethene         | 4.28 | 96  | 482568  | 9.402  | ppbv 95   |
| 19) Isopropyl Alcohol          | 3.96 | 45  | 920750  | 9.009  | ppbv 99   |
| 20) Methylene Chloride         | 4.34 | 84  | 405958  | 8.147  | ppbv 95   |
| 21) Allyl Chloride             | 4.41 | 41  | 828042  | 9.834  | ppbv 97   |
| 22) trans-1,2-Dichloroethene   | 4.89 | 96  | 490780  | 9.486  | ppbv 96   |
| 23) Vinyl Acetate              | 5.08 | 43  | 1798333 | 9.797  | ppbv 98   |
| 24) 1,1-Dichloroethane         | 5.01 | 63  | 1286850 | 9.126  | ppbv 99   |
| 25) Ethyl Acetate              | 5.69 | 43  | 2275684 | 9.075  | ppbv 100  |
| 26) Hexane                     | 5.70 | 57  | 953127  | 8.846  | ppbv 96   |
| 27) Carbon Disulfide           | 4.55 | 76  | 1221847 | 10.411 | ppbv 99   |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73  | 1637199 | 9.164  | ppbv 99   |
| 29) Chloroform                 | 5.77 | 83  | 1594584 | 9.139  | ppbv 97   |
| 30) Cyclohexane                | 7.16 | 84  | 446977  | 5.487  | ppbv # 16 |
| 31) cis-1,2-Dichloroethene     | 5.56 | 61  | 1049381 | 9.425  | ppbv 100  |
| 32) 1,1,1-Trichloroethane      | 6.53 | 97  | 1569186 | 9.592  | ppbv 99   |
| 34) 2-Butanone                 | 5.25 | 43  | 1531006 | 9.600  | ppbv 99   |
| 35) Carbon Tetrachloride       | 7.05 | 117 | 1658102 | 9.953  | ppbv 97   |
| 36) Benzene                    | 6.92 | 78  | 1833321 | 9.466  | ppbv 96   |
| 37) 1,2-Dichloroethane         | 6.33 | 62  | 1363707 | 9.478  | ppbv 100  |
| 38) Trichloroethene            | 7.87 | 130 | 719259  | 9.049  | ppbv 96   |
| 39) 1,2-Dichloropropane        | 7.65 | 63  | 775031  | 9.439  | ppbv 90   |
| 40) 1,4-Dioxane                | 7.86 | 88  | 319921  | 9.815  | ppbv # 95 |
| 41) Tetrahydrofuran            | 6.06 | 42  | 867100  | 9.693  | ppbv 98   |
| 42) Bromodichloromethane       | 7.83 | 83  | 1749970 | 9.725  | ppbv 99   |
| 43) Methyl Methacrylate        | 8.05 | 69  | 797997  | 9.934  | ppbv 97   |

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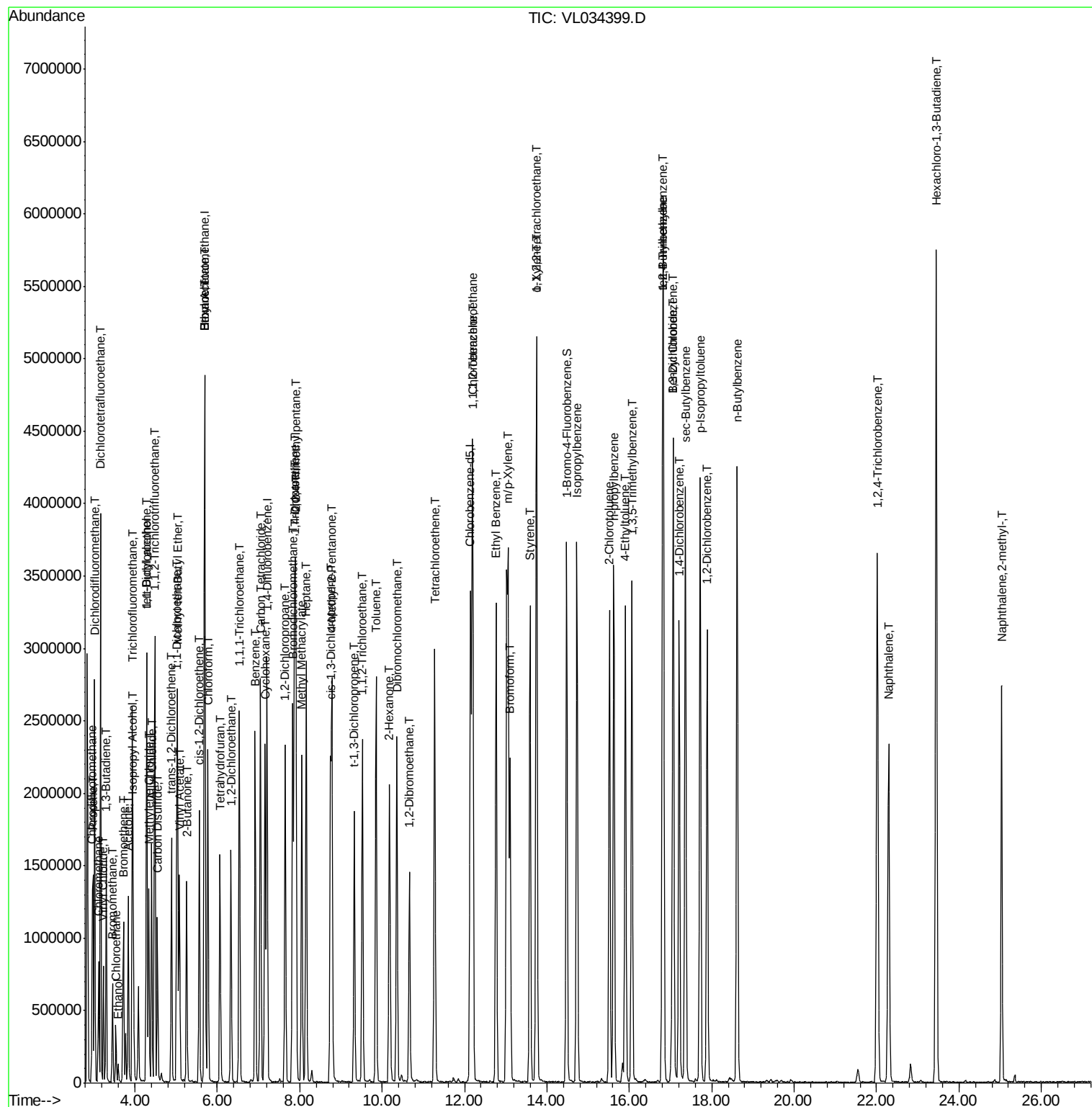
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.90  | 57   | 3344399  | 9.448  | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.32  | 75   | 1106220  | 10.737 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.74  | 75   | 1217043  | 10.517 | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 9.52  | 97   | 778999   | 9.385  | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.36 | 129  | 1426140  | 10.007 | ppbv   | 100      |
| 49) Bromoform                 | 13.10 | 173  | 1244895  | 9.785  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 8.78  | 43   | 2270178  | 9.838  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.18 | 43   | 1902307  | 9.842  | ppbv # | 98       |
| 52) Tetrachloroethene         | 11.28 | 164  | 697541   | 8.324  | ppbv   | 95       |
| 53) Toluene                   | 9.85  | 91   | 2140576  | 9.730  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.66 | 107  | 1191589  | 9.364  | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 12.18 | 131  | 933619   | 9.087  | ppbv   | 94       |
| 57) Chlorobenzene             | 12.20 | 112  | 1626384  | 8.566  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.76 | 91   | 2931819  | 8.995  | ppbv   | 97       |
| 59) m/p-Xylene                | 13.05 | 91   | 2176968  | 7.727  | ppbv # | 14       |
| 60) o-Xylene                  | 13.75 | 91   | 2423402  | 8.699  | ppbv   | 99       |
| 61) Styrene                   | 13.59 | 104  | 1803867  | 8.979  | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.73 | 105  | 3156555  | 8.568  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.74 | 83   | 1641782  | 7.840  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.63 | 120  | 802465   | 8.387  | ppbv   | 93       |
| 65) tert-Butylbenzene         | 16.82 | 119  | 2757548  | 8.332  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.06 | 91   | 1274882  | 10.014 | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.36 | 105  | 3858522  | 8.335  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.72 | 119  | 3206235  | 8.345  | ppbv   | 99       |
| 70) n-Butylbenzene            | 18.62 | 91   | 3489163  | 8.440  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.52 | 91   | 2462874  | 8.384  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 15.90 | 105  | 2773320  | 8.616  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.06 | 105  | 2629865  | 8.347  | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 16.83 | 105  | 2742404  | 8.194  | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 17.07 | 146  | 1544949  | 8.031  | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.21 | 146  | 1542212  | 8.256  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 17.89 | 146  | 1498737  | 8.066  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.45 | 225  | 1026416  | 6.429  | ppbv # | 58       |
| 79) Naphthalene               | 22.29 | 128  | 2900500  | 9.997  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.03 | 142  | 1481455  | 11.308 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.02 | 180  | 911895   | 5.116  | ppbv # | 22       |

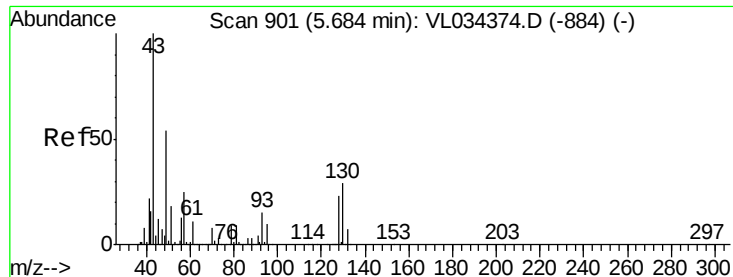
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

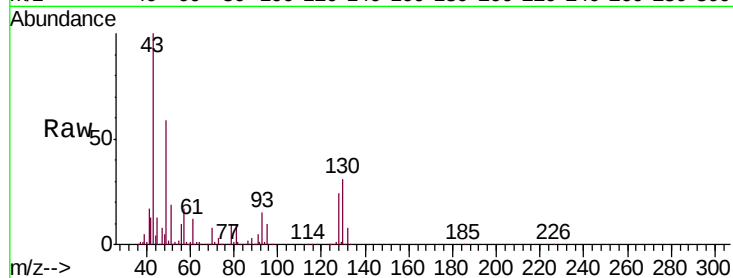
Tgt Ion: 49 Resp: 981318

Ion Ratio Lower Upper

49 100

128 42.1 21.8 65.3

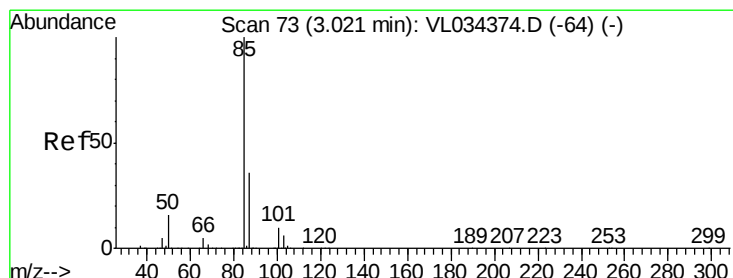
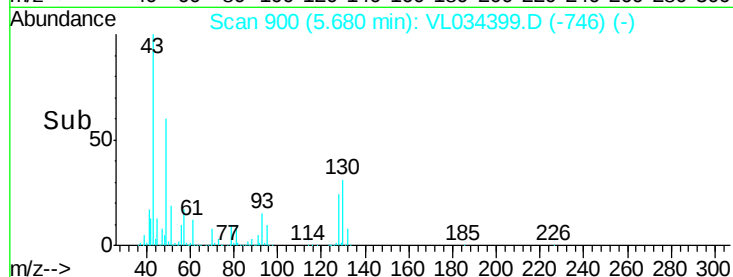
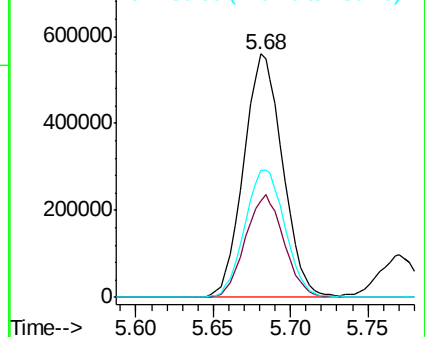
130 54.2 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 10.427 ppbv

RT: 3.02 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL034399.D

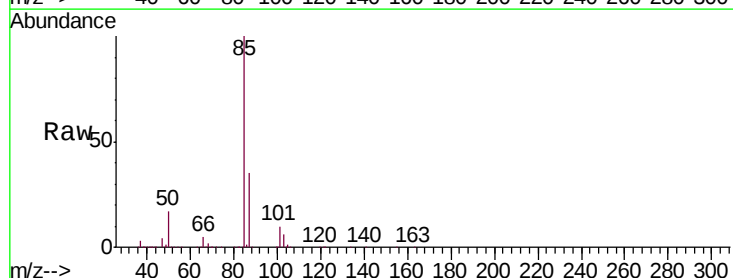
Acq: 20 Nov 2019 4:06

Tgt Ion: 85 Resp: 1851103

Ion Ratio Lower Upper

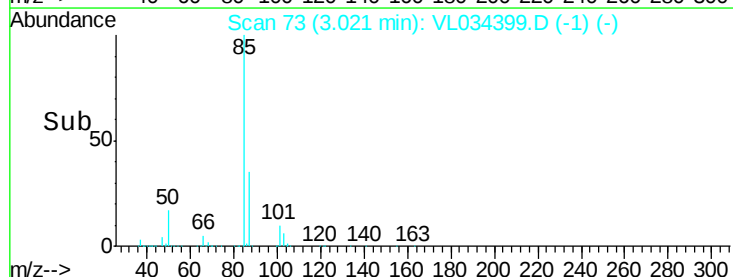
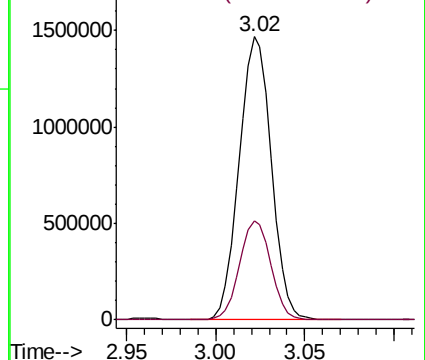
85 100

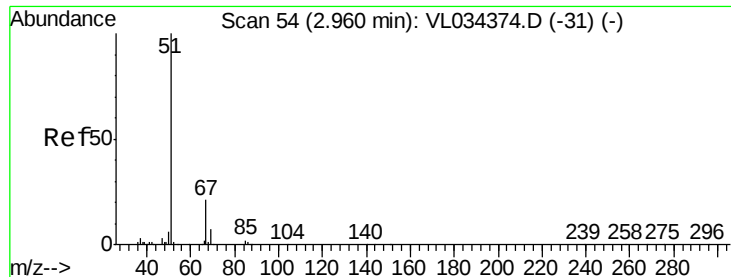
87 35.1 28.5 42.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

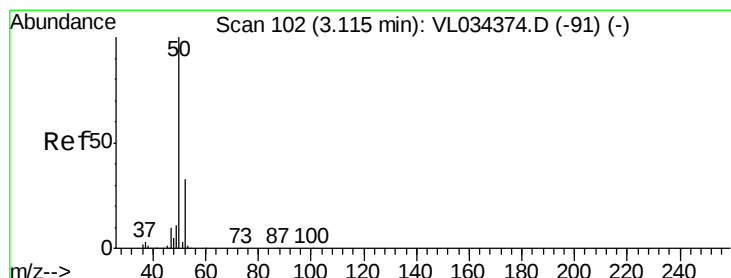
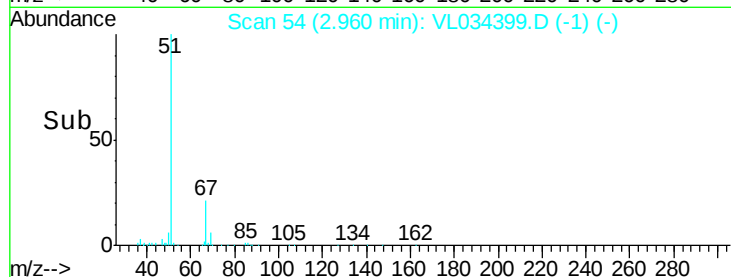
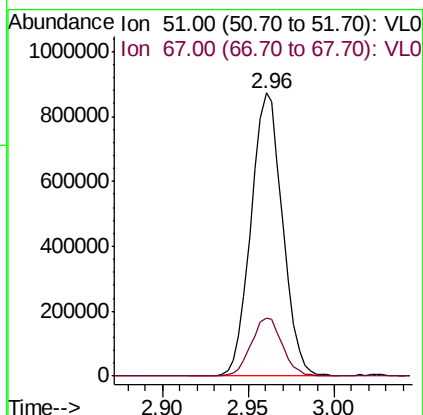
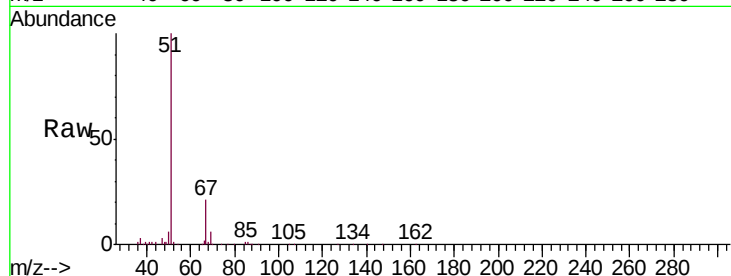




#3  
Chlorodifluoromethane  
Concen: 9.063 ppbv  
RT: 2.96 min Scan# 54  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

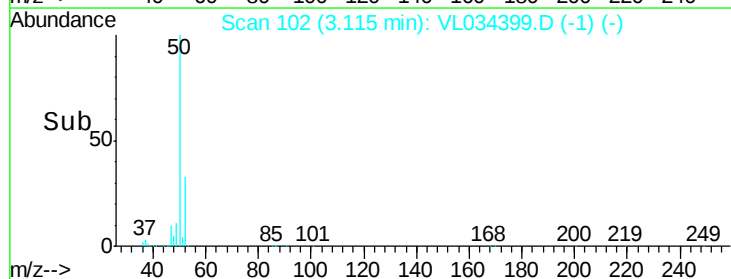
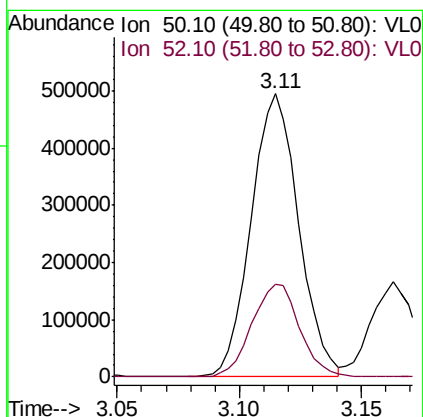
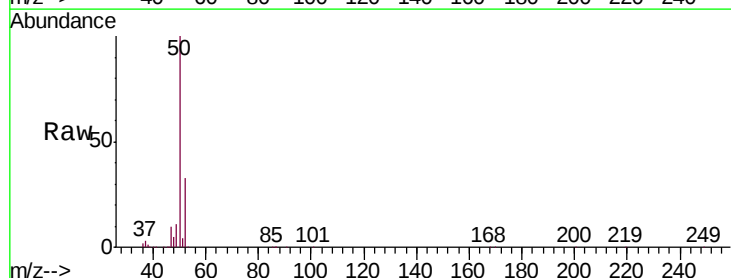
Instrument :  
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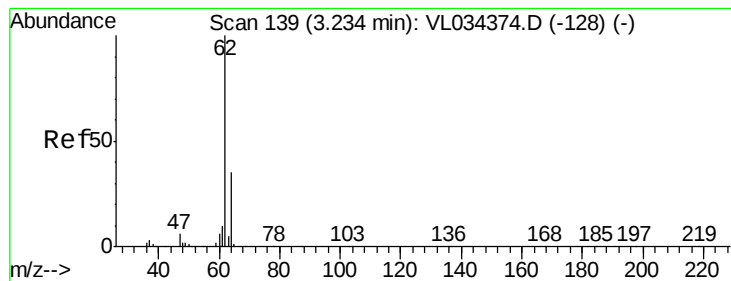
Tgt Ion: 51 Resp: 1109710  
Ion Ratio Lower Upper  
51 100  
67 20.3 16.2 24.2



#4  
Chloromethane  
Concen: 9.218 ppbv  
RT: 3.11 min Scan# 102  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion: 50 Resp: 665709  
Ion Ratio Lower Upper  
50 100  
52 32.7 26.8 40.2





#5

Vinyl Chloride

Concen: 8.993 ppbv

RT: 3.23 min Scan# 139

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

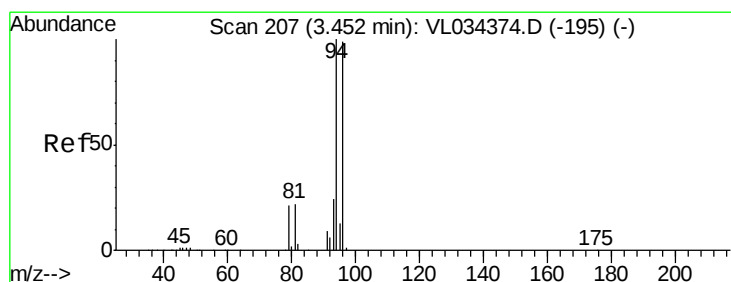
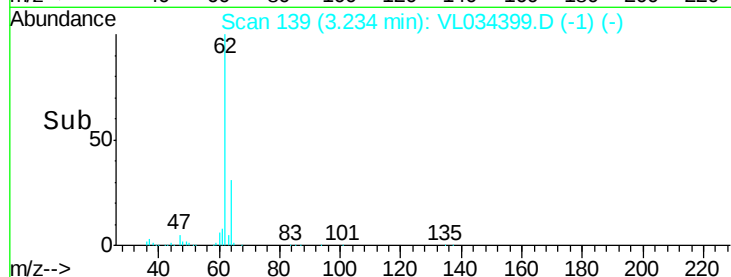
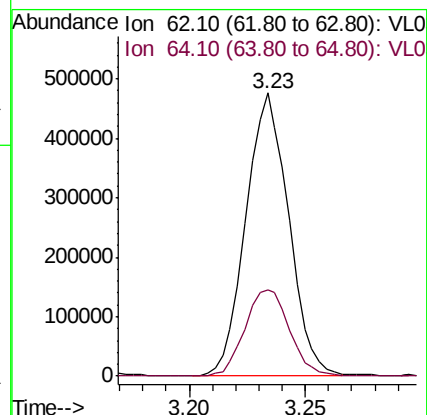
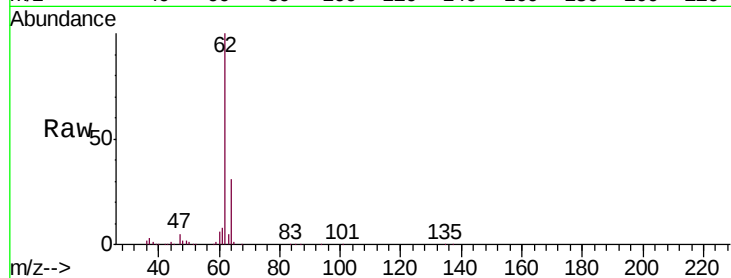
VSTDCCC010EC

Tgt Ion: 62 Resp: 608483

Ion Ratio Lower Upper

62 100

64 30.7 28.4 42.6



#6

Bromomethane

Concen: 9.577 ppbv

RT: 3.45 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL034399.D

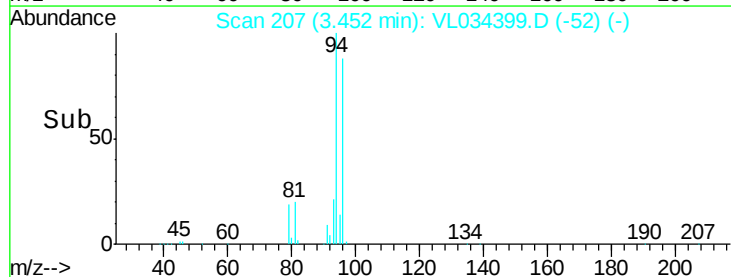
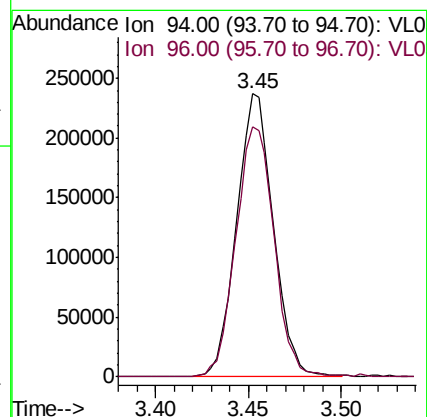
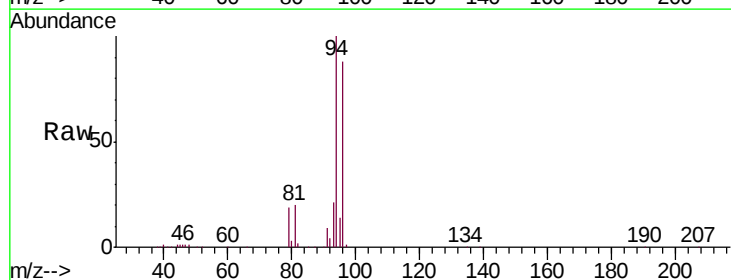
Acq: 20 Nov 2019 4:06

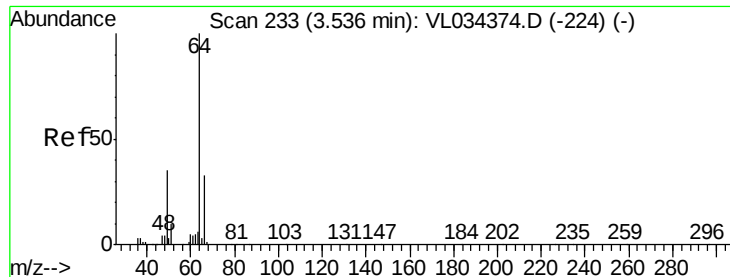
Tgt Ion: 94 Resp: 326061

Ion Ratio Lower Upper

94 100

96 88.3 79.5 119.3





#7

Chloroethane

Concen: 9.413 ppbv

RT: 3.54 min Scan# 234

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

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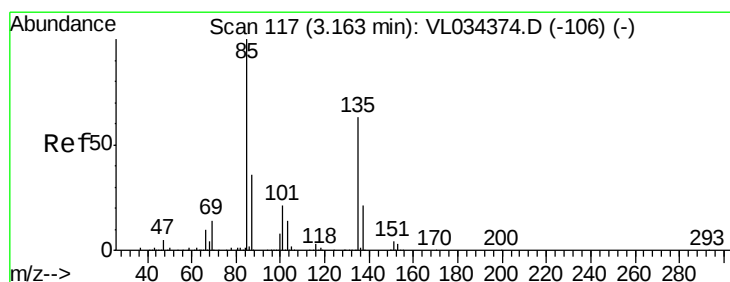
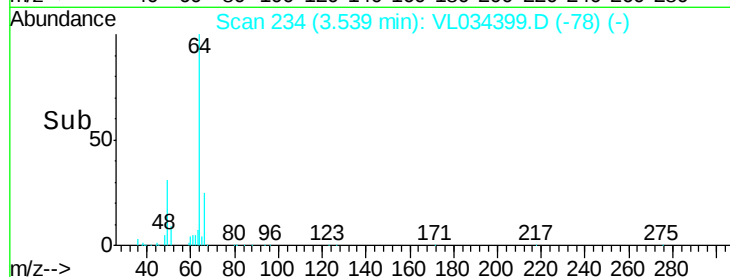
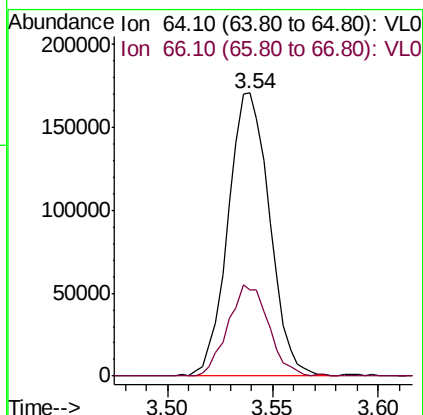
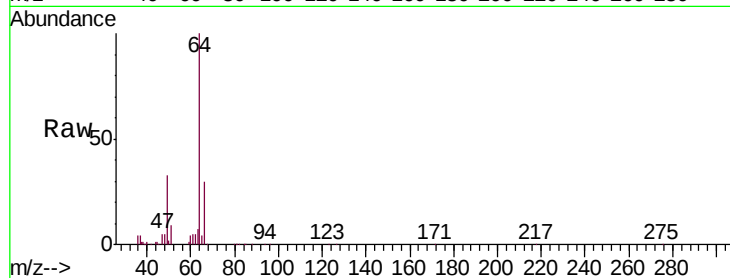
VSTDCCC010EC

Tgt Ion: 64 Resp: 231189

Ion Ratio Lower Upper

64 100

66 30.3 26.0 39.0



#8

Dichlorotetrafluoroethane

Concen: 8.919 ppbv

RT: 3.16 min Scan# 117

Delta R.T. -0.00 min

Lab File: VL034399.D

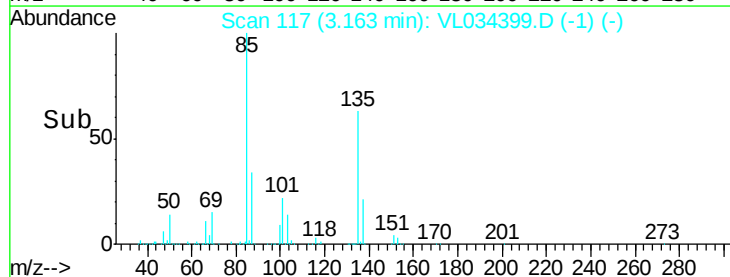
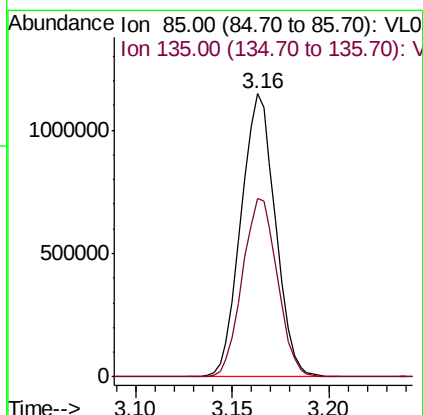
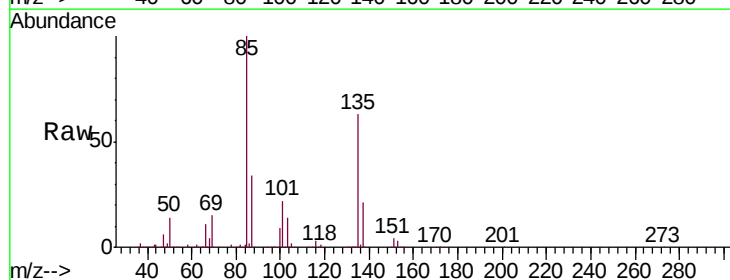
Acq: 20 Nov 2019 4:06

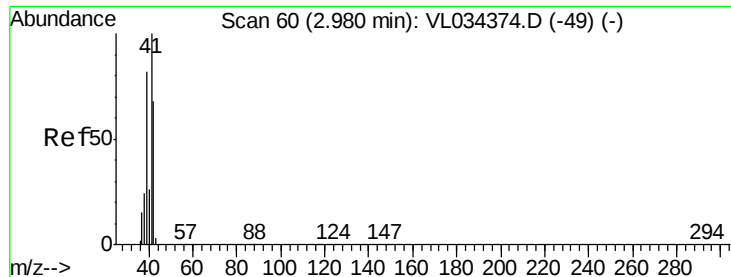
Tgt Ion: 85 Resp: 1421873

Ion Ratio Lower Upper

85 100

135 64.5 51.1 76.7





#9

Propene

Concen: 9.142 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

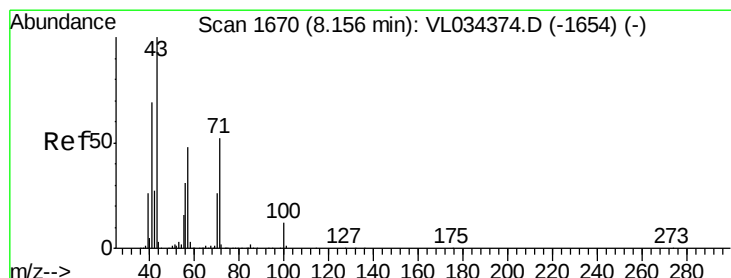
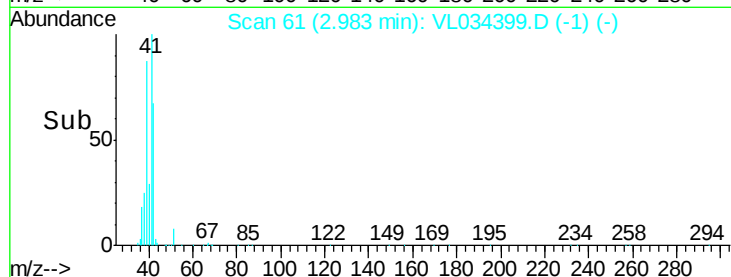
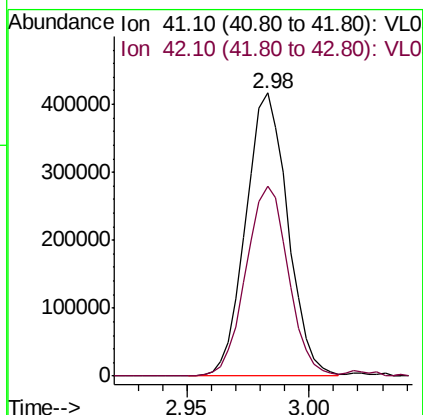
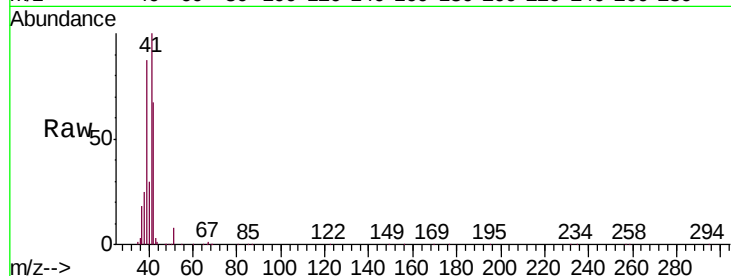
VSTDCCC010EC

Tgt Ion: 41 Resp: 496958

Ion Ratio Lower Upper

41 100

42 69.2 54.6 82.0



#10

Heptane

Concen: 9.432 ppbv

RT: 8.16 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VL034399.D

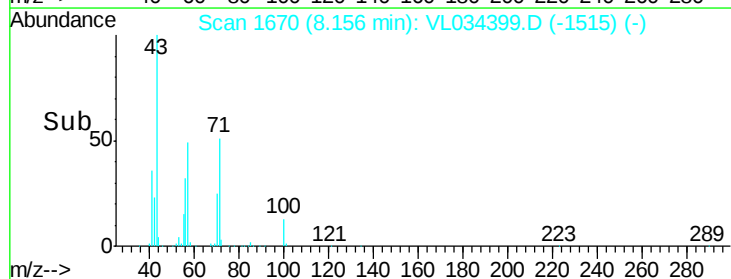
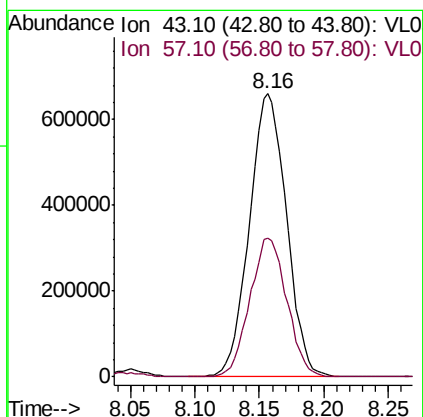
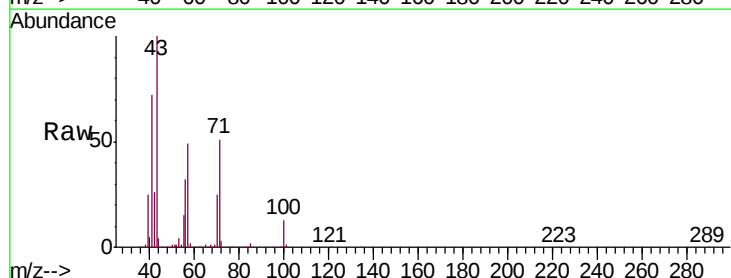
Acq: 20 Nov 2019 4:06

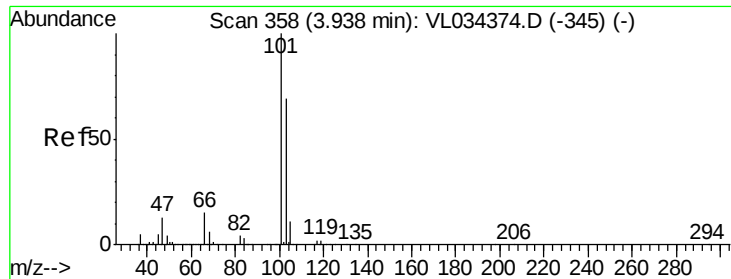
Tgt Ion: 43 Resp: 1323076

Ion Ratio Lower Upper

43 100

57 49.2 40.2 60.2

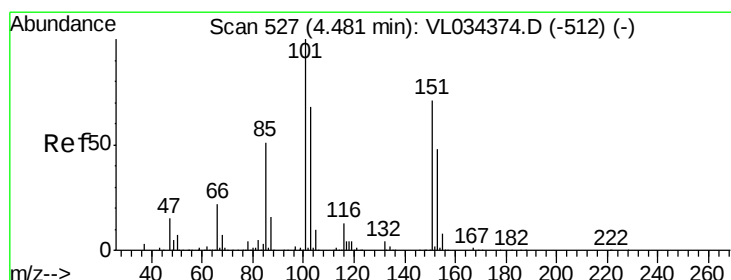
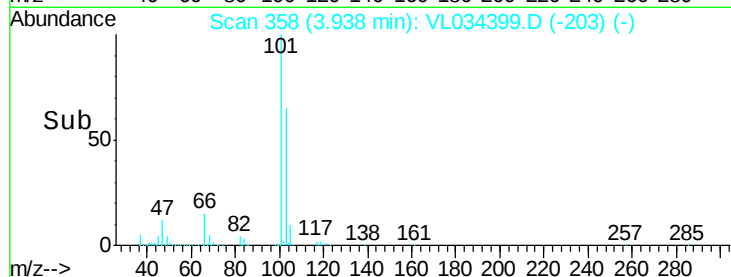
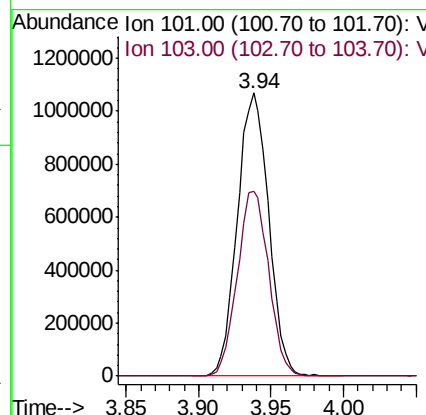
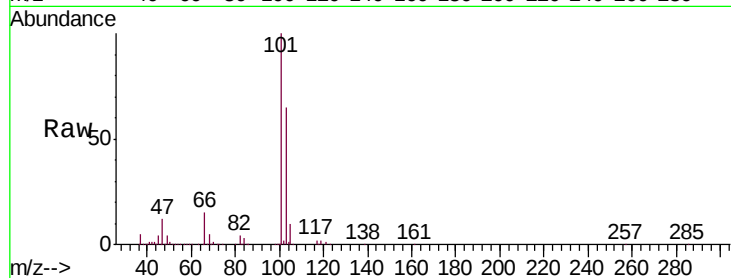




#11  
 Trichlorofluoromethane  
 Concen: 9.084 ppbv  
 RT: 3.94 min Scan# 358  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

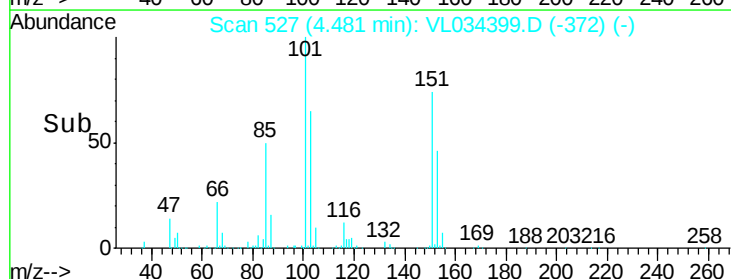
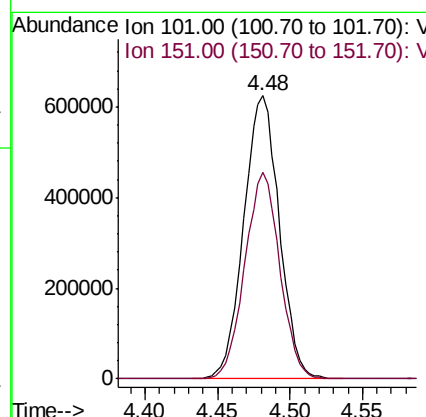
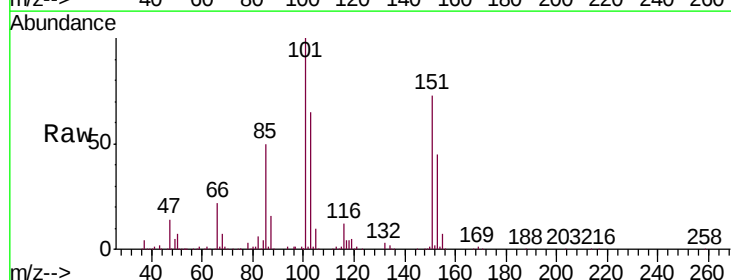
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

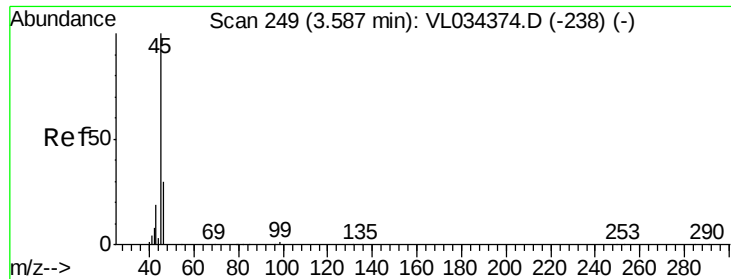
Tgt Ion:101 Resp: 1604992  
 Ion Ratio Lower Upper  
 101 100  
 103 65.3 55.4 83.0



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.086 ppbv  
 RT: 4.48 min Scan# 527  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion:101 Resp: 1066104  
 Ion Ratio Lower Upper  
 101 100  
 151 71.9 57.4 86.2





#13

Ethanol

Concen: 7.347 ppbv

RT: 3.59 min Scan# 249

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

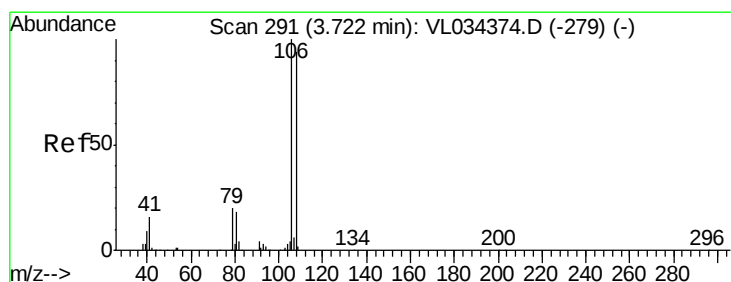
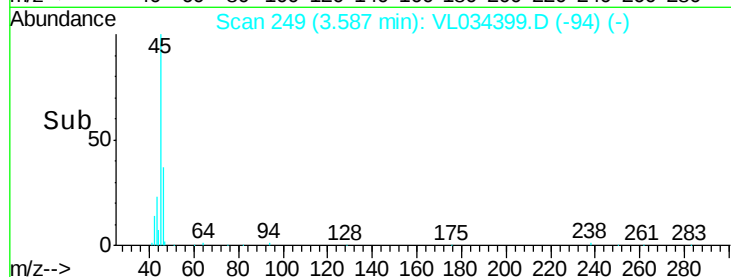
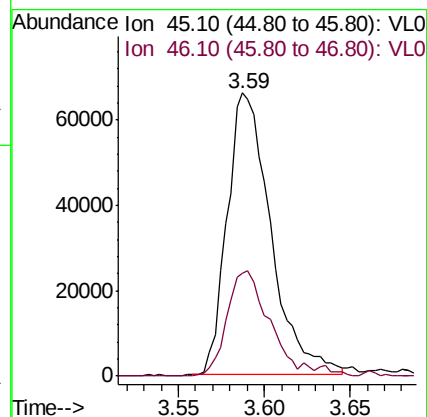
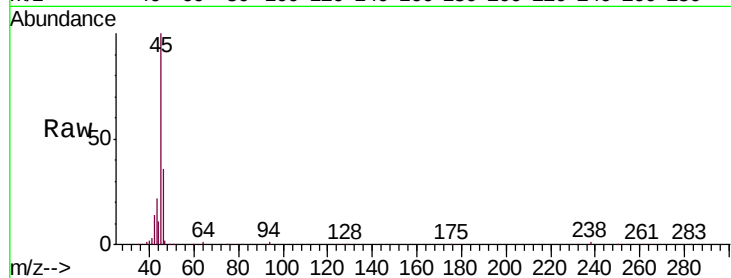
VSTDCCC010EC

Tgt Ion: 45 Resp: 116970

Ion Ratio Lower Upper

45 100

46 38.0 13.8 55.4



#14

Bromoethene

Concen: 9.481 ppbv

RT: 3.73 min Scan# 292

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

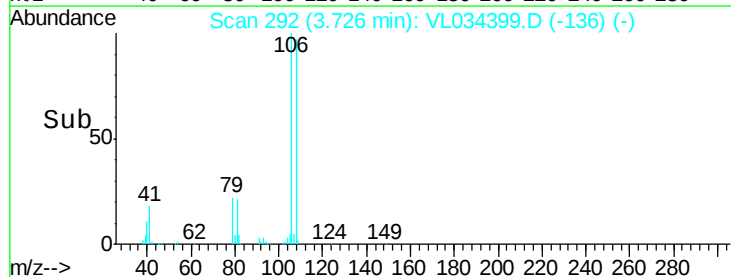
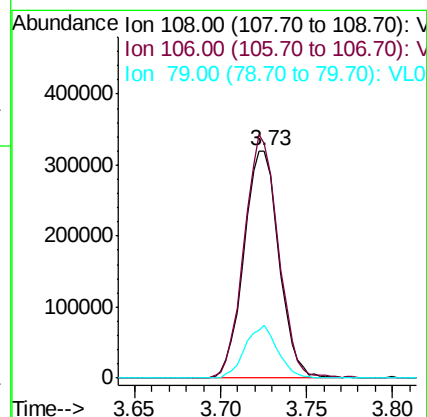
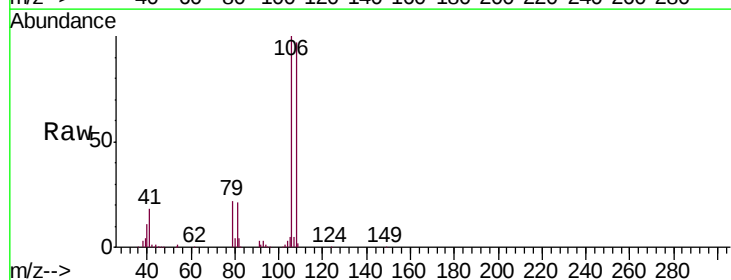
Tgt Ion: 108 Resp: 452318

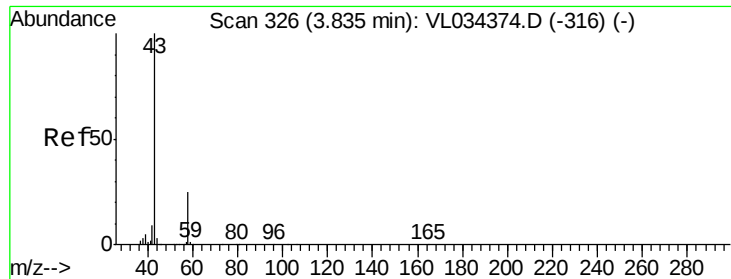
Ion Ratio Lower Upper

108 100

106 104.5 85.7 128.5

79 21.9 17.2 25.8





#15

Acetone

Concen: 8.878 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

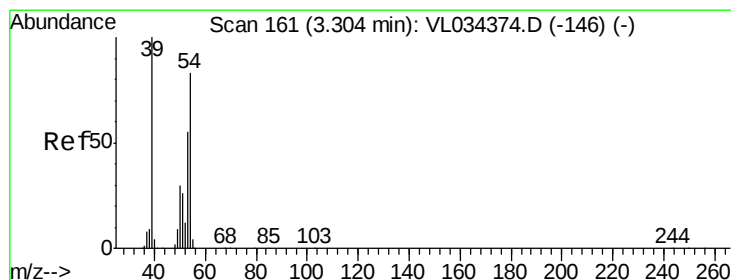
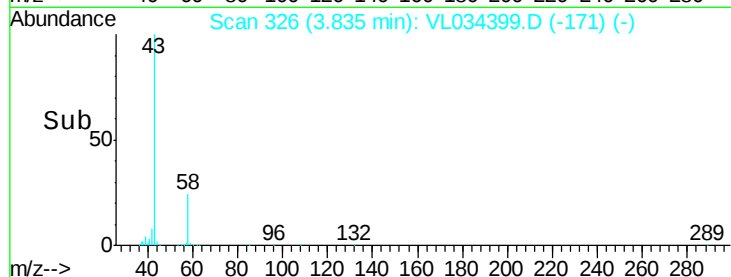
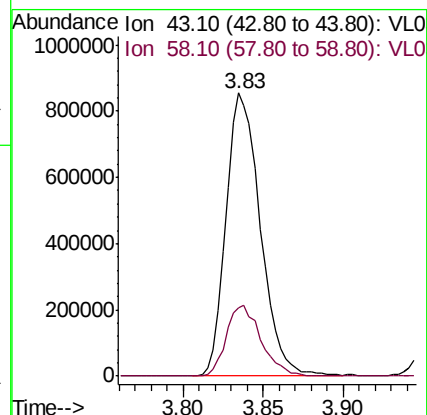
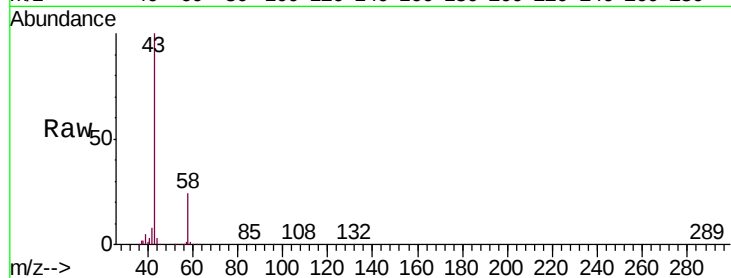
VSTDCCC010EC

Tgt Ion: 43 Resp: 1247578

Ion Ratio Lower Upper

43 100

58 25.4 20.2 30.4



#16

1,3-Butadiene

Concen: 9.453 ppbv

RT: 3.31 min Scan# 162

Delta R.T. 0.00 min

Lab File: VL034399.D

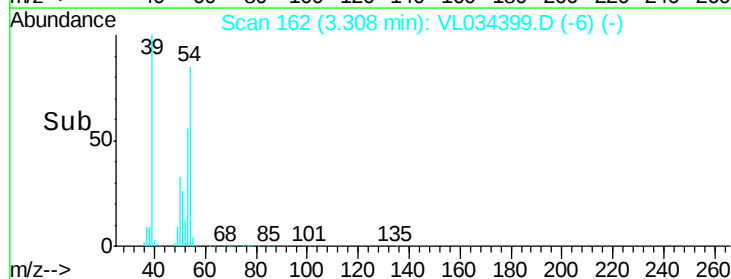
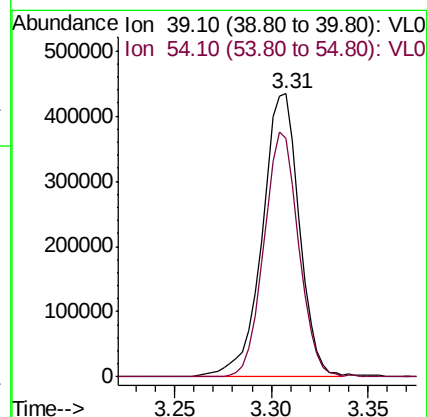
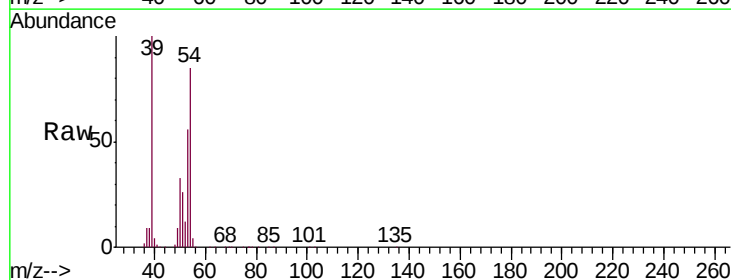
Acq: 20 Nov 2019 4:06

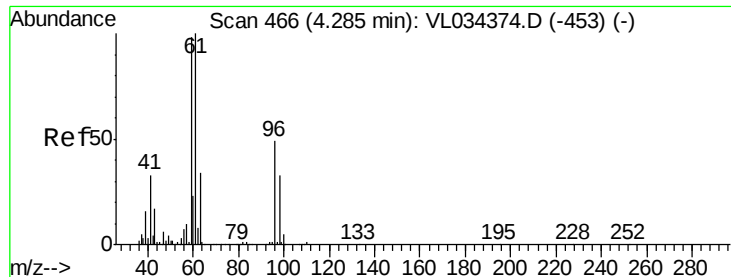
Tgt Ion: 39 Resp: 578598

Ion Ratio Lower Upper

39 100

54 81.3 64.7 97.1





#17

tert-Butyl alcohol

Concen: 9.326 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

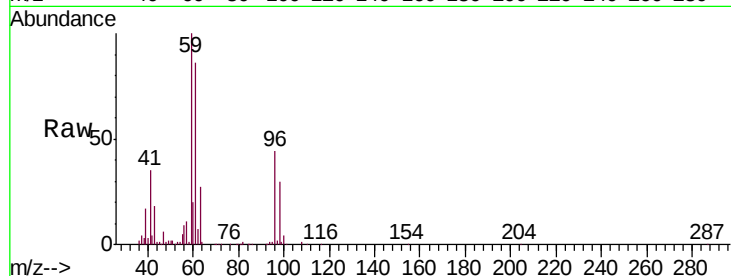
VSTDCCC010EC

Tgt Ion: 59 Resp: 1101613

Ion Ratio Lower Upper

59 100

57 11.0 8.8 13.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.29

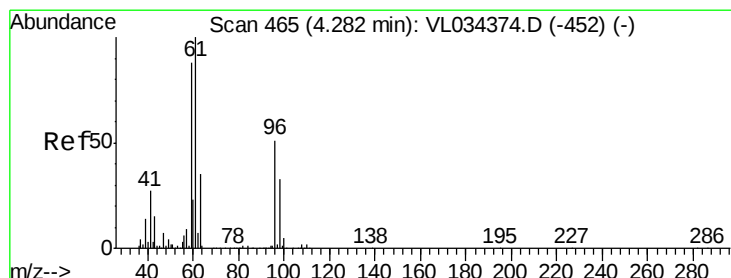
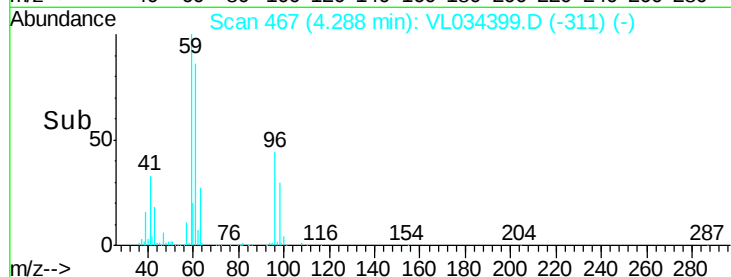
600000

400000

200000

0

Time--> 4.20 4.25 4.30 4.35



#18

1,1-Dichloroethene

Concen: 9.402 ppbv

RT: 4.28 min Scan# 465

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

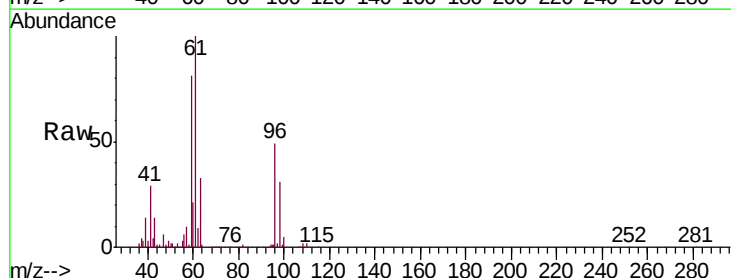
Tgt Ion: 96 Resp: 482568

Ion Ratio Lower Upper

96 100

61 202.2 155.6 233.4

98 62.4 51.6 77.4



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

800000

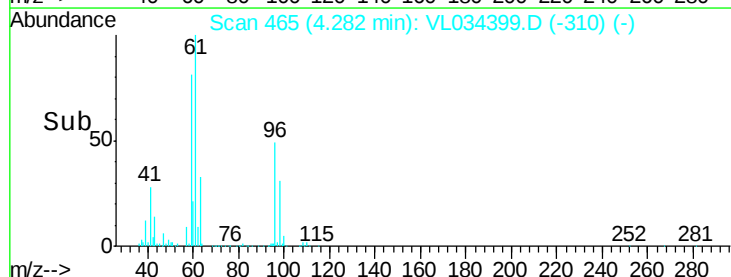
600000

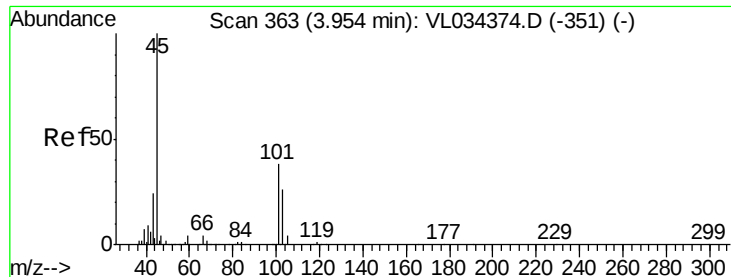
400000

200000

0

Time--> 4.25 4.30 4.35





#19

Isopropyl Alcohol

Concen: 9.009 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

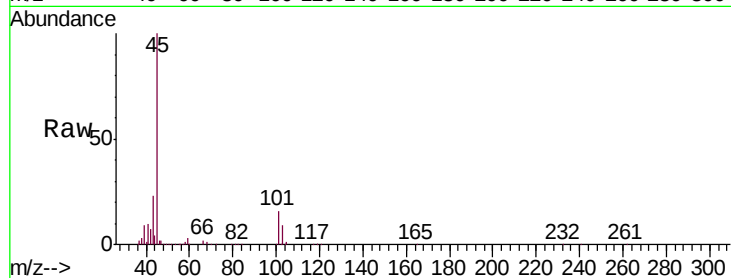
VSTDCCC010EC

Tgt Ion: 45 Resp: 920750

Ion Ratio Lower Upper

45 100

58 1.9 1.3 1.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

600000

500000

400000

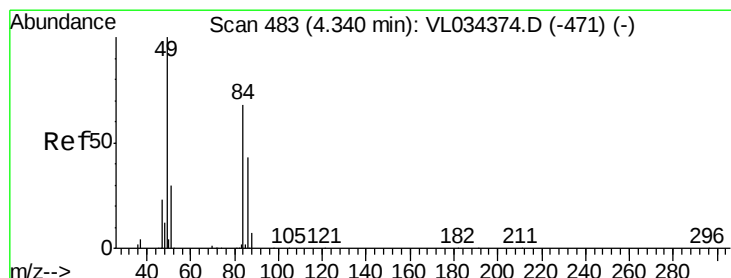
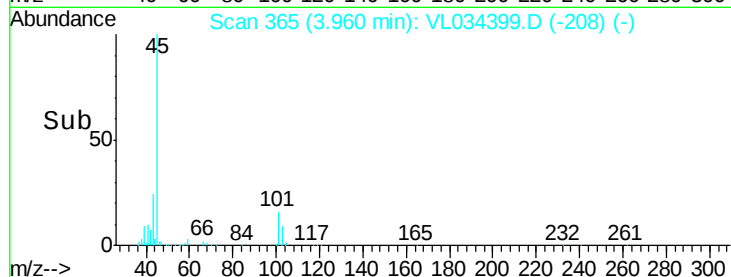
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.147 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Tgt Ion: 84 Resp: 405958

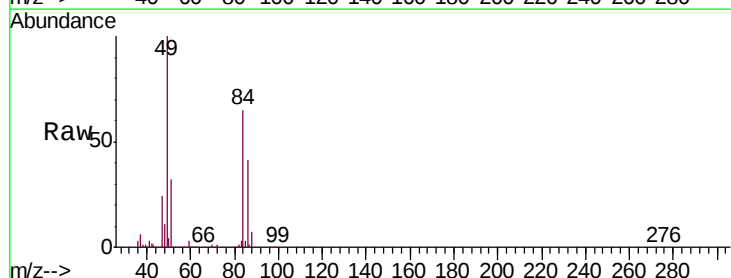
Ion Ratio Lower Upper

84 100

49 153.6 116.8 175.2

51 48.5 35.6 53.4

86 63.5 50.7 76.1



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

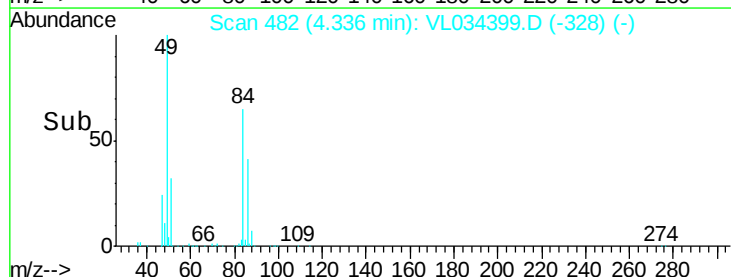
600000

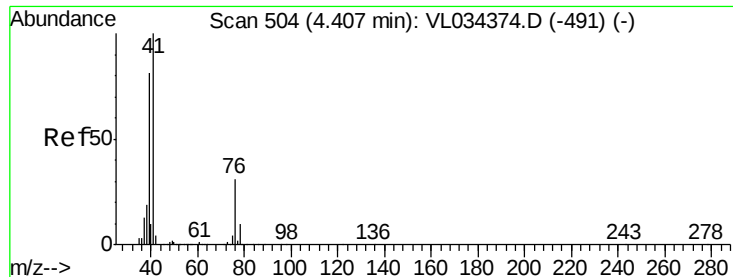
400000

200000

0

Time-->

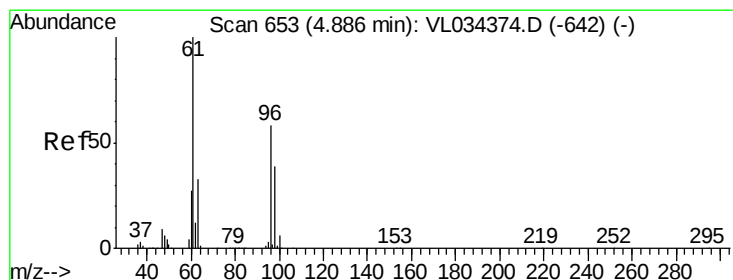
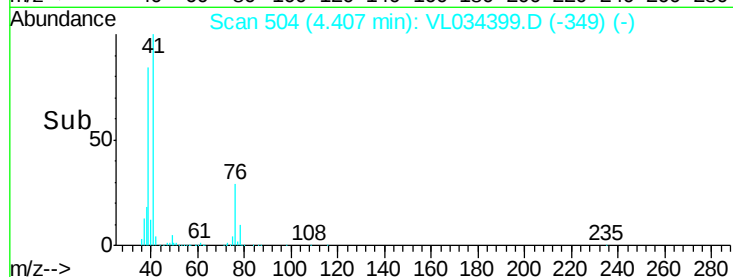
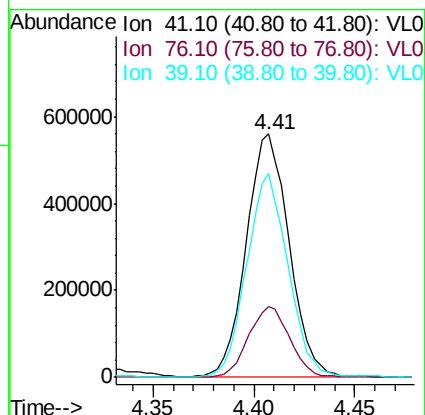
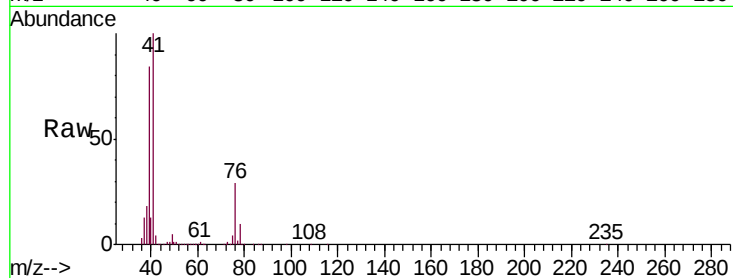




#21  
 Allyl Chloride  
 Concen: 9.834 ppbv  
 RT: 4.41 min Scan# 504  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

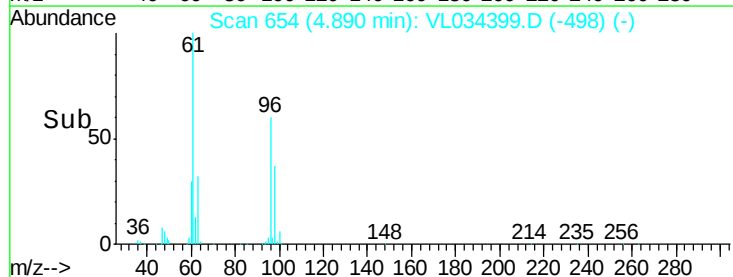
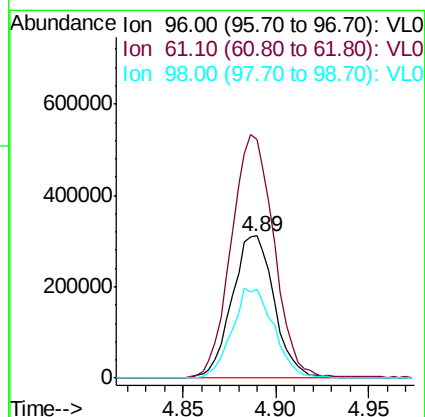
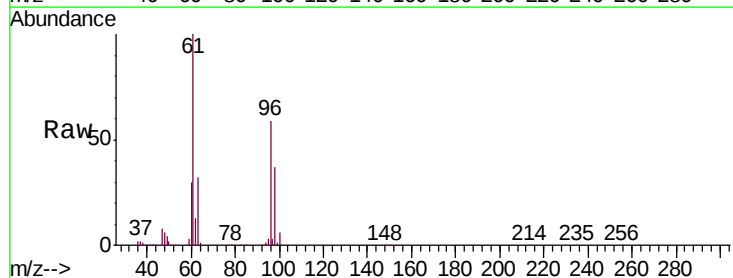
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

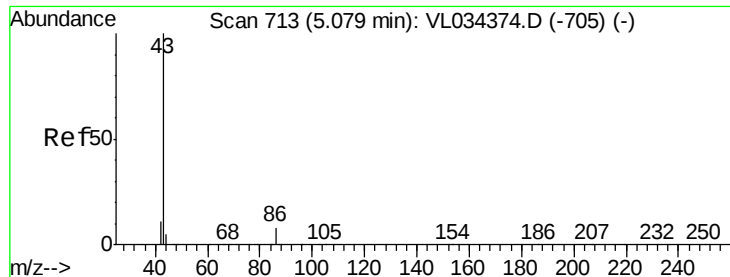
Tgt Ion: 41 Resp: 828042  
 Ion Ratio Lower Upper  
 41 100  
 76 28.5 24.2 36.2  
 39 81.5 66.9 100.3



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.486 ppbv  
 RT: 4.89 min Scan# 654  
 Delta R.T. 0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion: 96 Resp: 490780  
 Ion Ratio Lower Upper  
 96 100  
 61 167.7 137.9 206.9  
 98 62.2 53.5 80.3





#23

Vinyl Acetate

Concen: 9.797 ppbv

RT: 5.08 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1798333

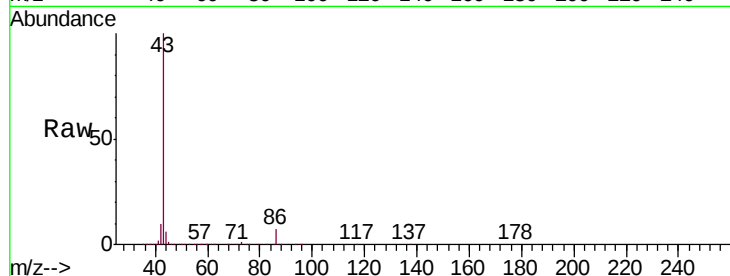
Ion Ratio Lower Upper

43 100

86 6.9 5.8 8.6

42 9.8 8.9 13.3

44 5.6 4.0 6.0

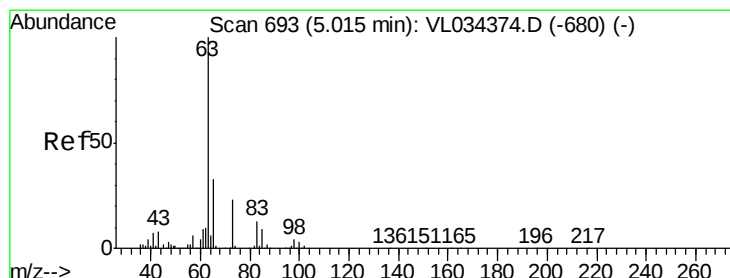
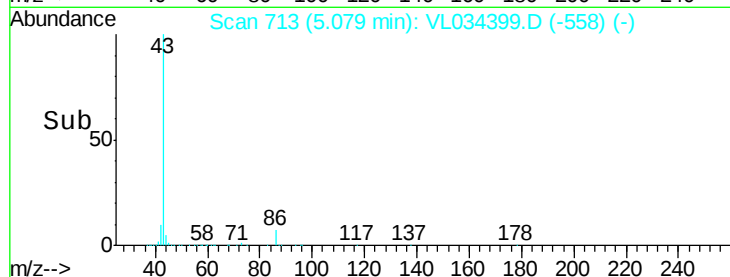
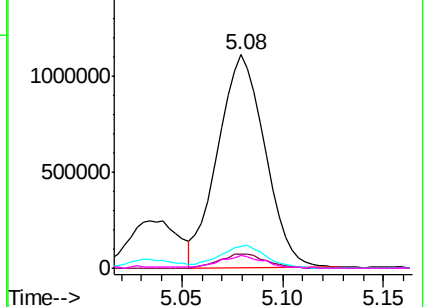


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.126 ppbv

RT: 5.01 min Scan# 693

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

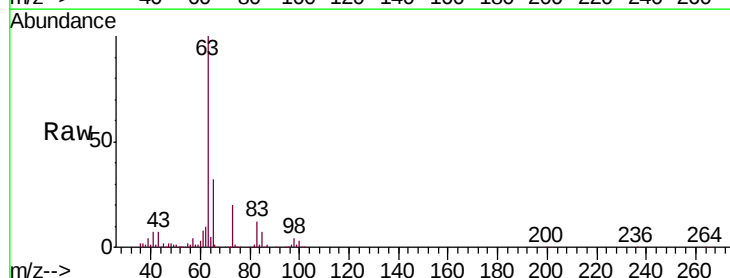
Tgt Ion: 63 Resp: 1286850

Ion Ratio Lower Upper

63 100

98 3.7 1.9 5.7

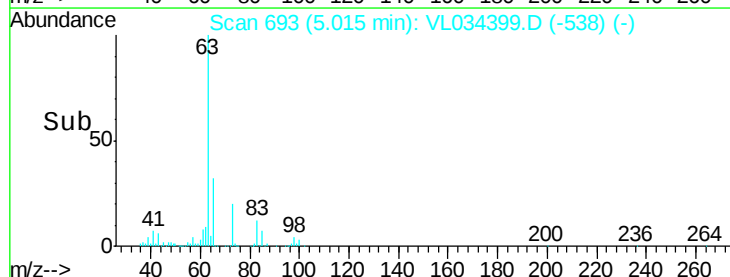
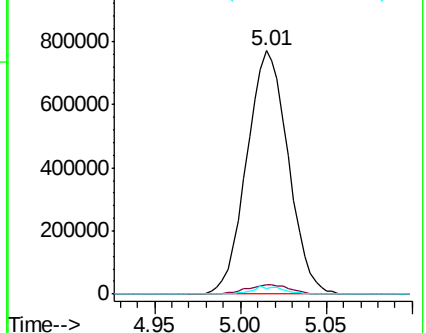
100 2.5 1.4 4.0

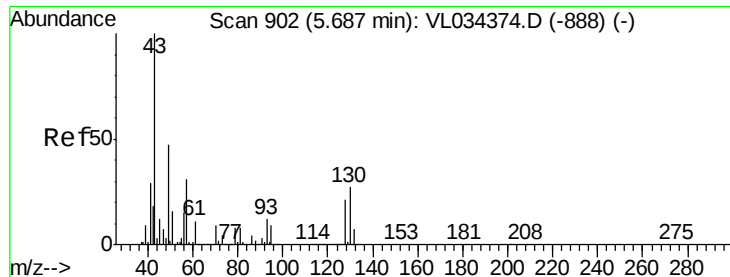


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



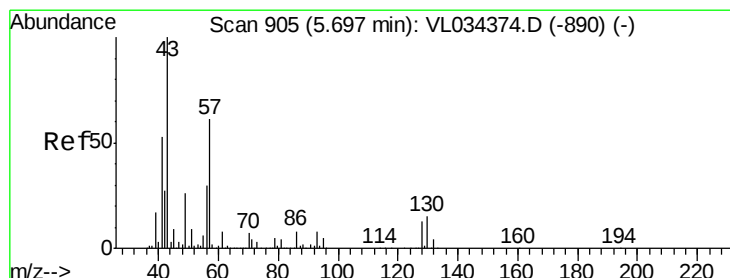
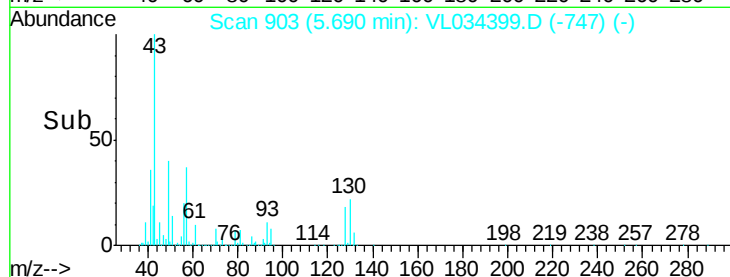
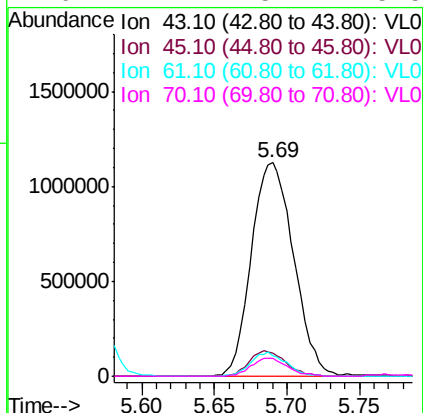
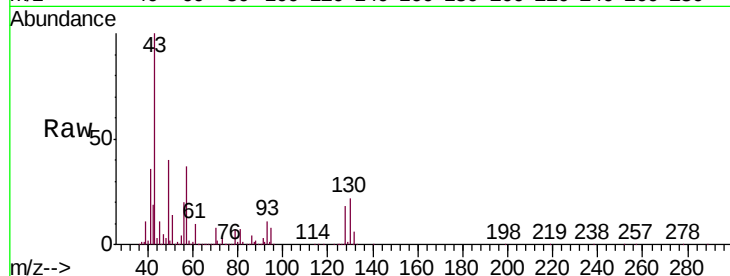


#25  
Ethyl Acetate  
Concen: 9.075 ppbv  
RT: 5.69 min Scan# 903  
Delta R.T. 0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

Tgt Ion: 43 Resp: 2275684

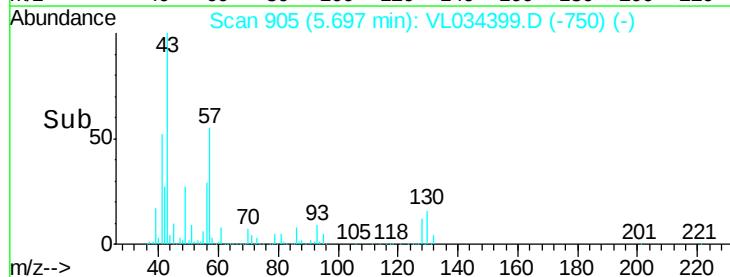
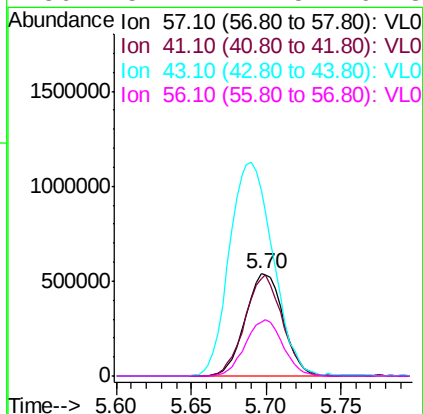
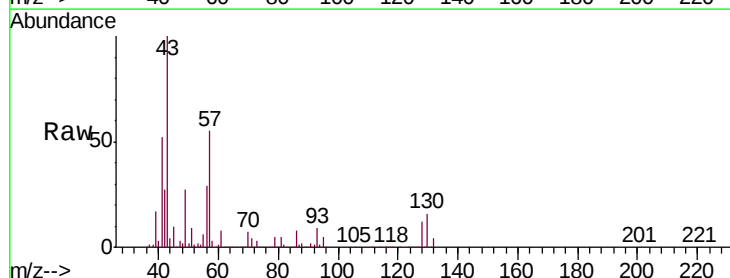
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 10.5  | 8.2   | 12.4  |
| 61  | 9.4   | 7.5   | 11.3  |
| 70  | 7.2   | 5.7   | 8.5   |

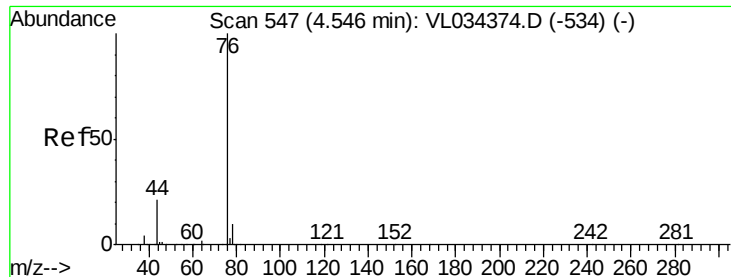


#26  
Hexane  
Concen: 8.846 ppbv  
RT: 5.70 min Scan# 905  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion: 57 Resp: 953127

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 57  | 100   |       |       |
| 41  | 97.5  | 75.0  | 112.4 |
| 43  | 240.2 | 186.6 | 279.8 |
| 56  | 54.4  | 41.5  | 62.3  |





#27

Carbon Disulfide

Concen: 10.411 ppbv

RT: 4.55 min Scan# 547

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

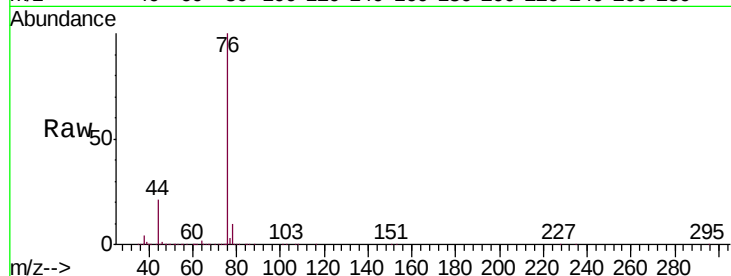
Tgt Ion: 76 Resp: 1221847

Ion Ratio Lower Upper

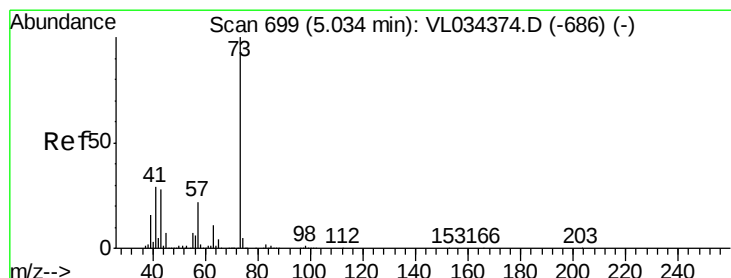
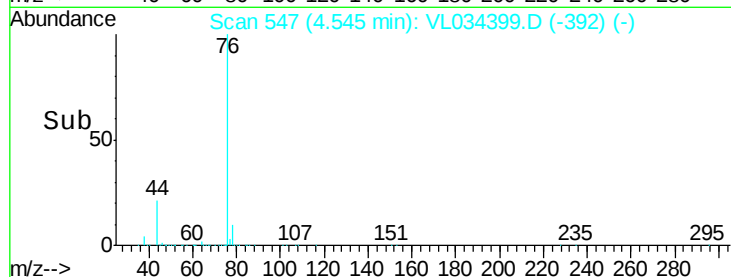
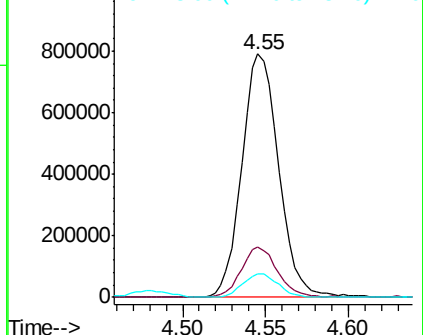
76 100

44 20.6 17.0 25.4

78 9.5 7.6 11.4



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



#28

Methyl tert-Butyl Ether

Concen: 9.164 ppbv

RT: 5.03 min Scan# 699

Delta R.T. -0.00 min

Lab File: VL034399.D

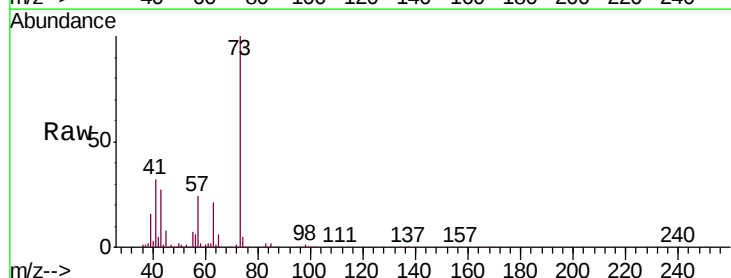
Acq: 20 Nov 2019 4:06

Tgt Ion: 73 Resp: 1637199

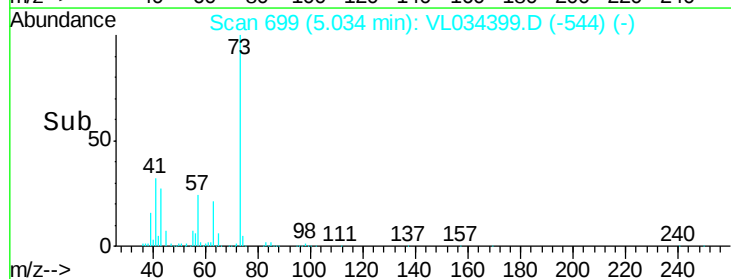
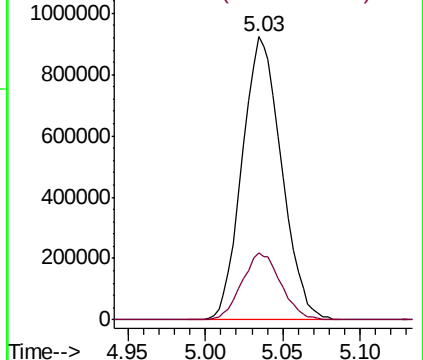
Ion Ratio Lower Upper

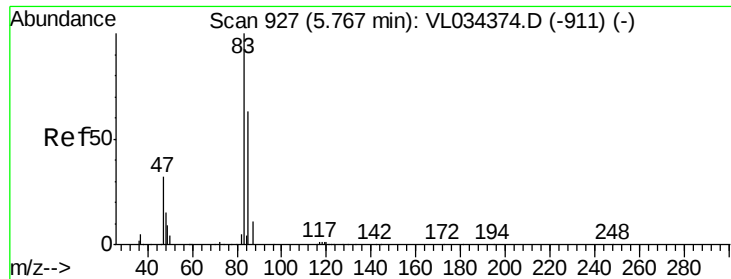
73 100

57 23.5 18.4 27.6



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

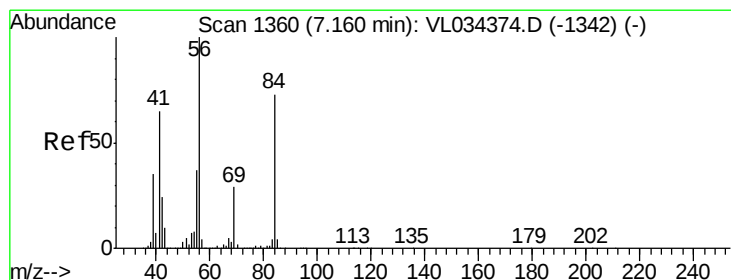
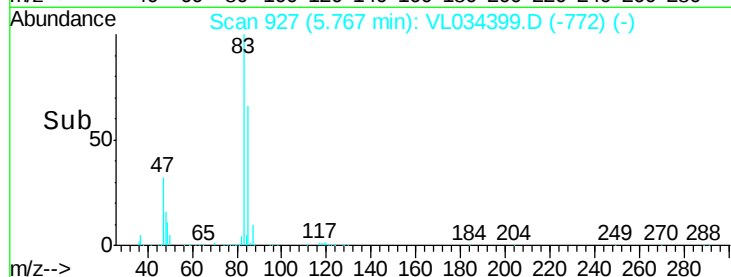
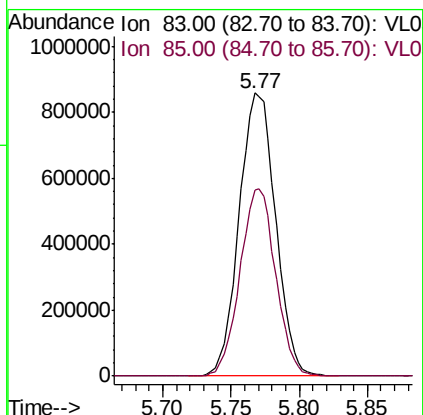
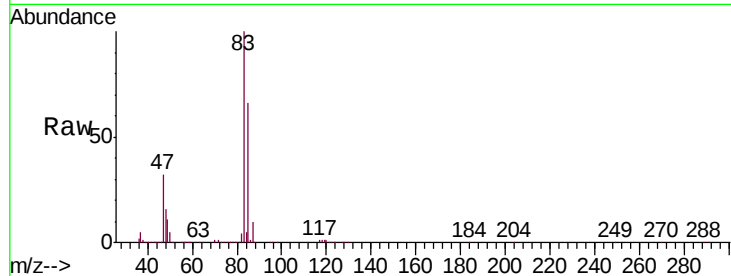




#29  
Chloroform  
Concen: 9.139 ppbv  
RT: 5.77 min Scan# 927  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

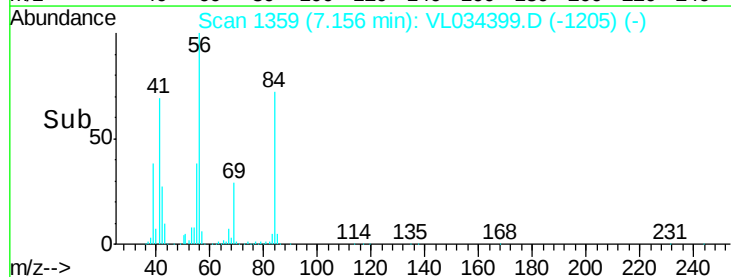
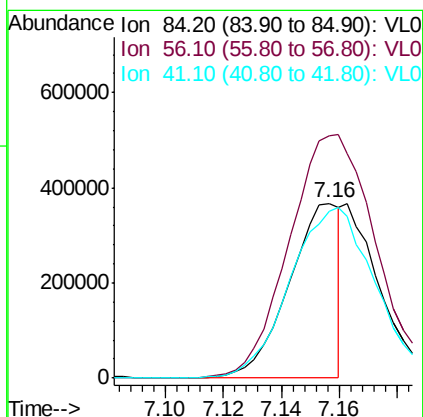
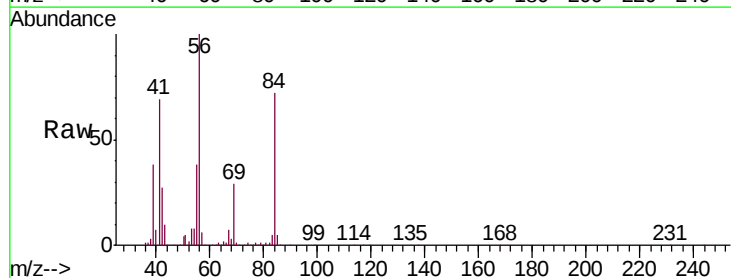
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

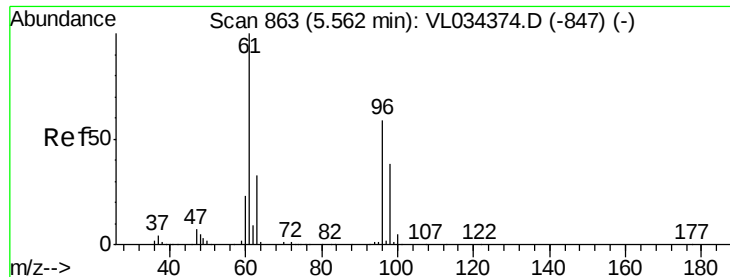
Tgt Ion: 83 Resp: 1594584  
Ion Ratio Lower Upper  
83 100  
85 65.5 50.4 75.6



#30  
Cyclohexane  
Concen: 5.487 ppbv  
RT: 7.16 min Scan# 1359  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion: 84 Resp: 446977  
Ion Ratio Lower Upper  
84 100  
56 249.6 112.6 169.0#  
41 163.4 73.4 110.2#



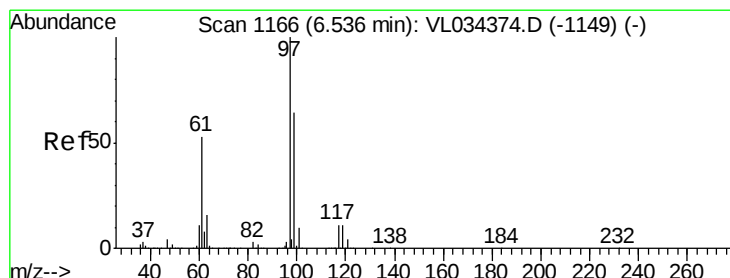
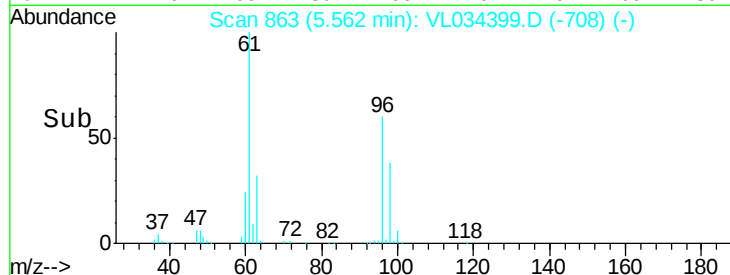
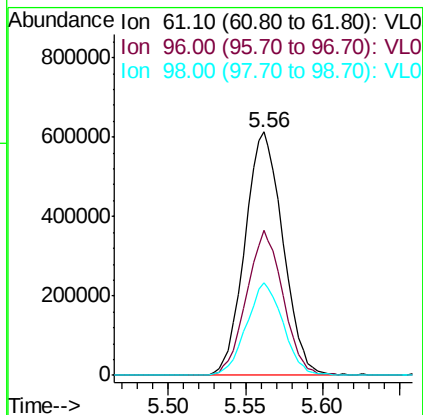
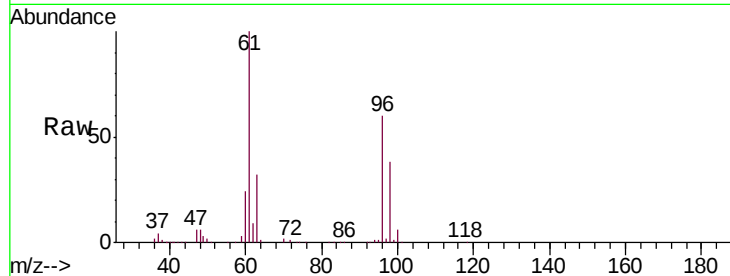


#31

cis-1,2-Dichloroethene  
 Concen: 9.425 ppbv  
 RT: 5.56 min Scan# 863  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

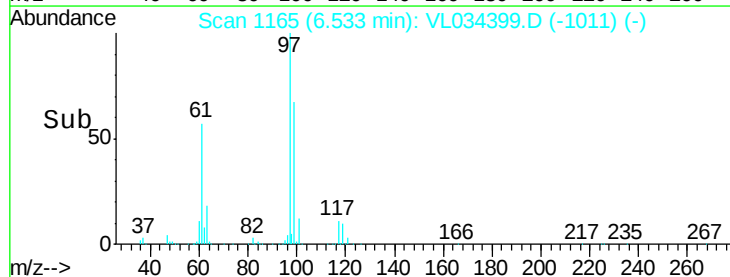
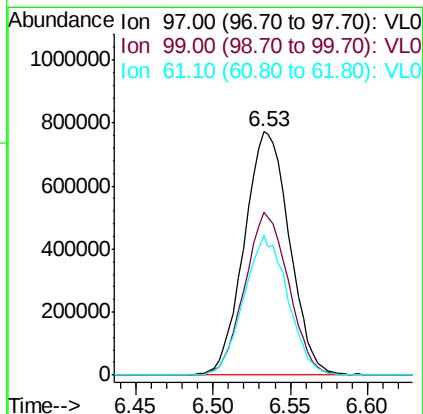
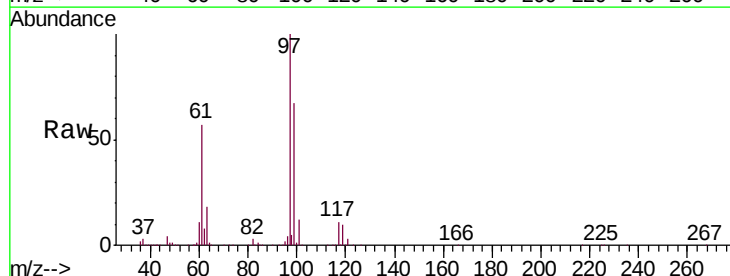
Tgt Ion: 61 Resp: 1049381  
 Ion Ratio Lower Upper  
 61 100  
 96 59.6 47.4 71.2  
 98 38.0 30.6 45.8

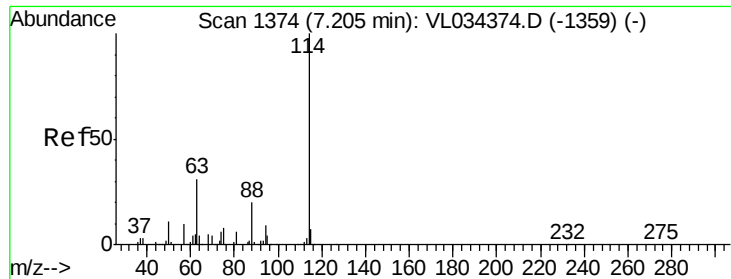


#32

1,1,1-Trichloroethane  
 Concen: 9.592 ppbv  
 RT: 6.53 min Scan# 1165  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion: 97 Resp: 1569186  
 Ion Ratio Lower Upper  
 97 100  
 99 64.9 52.3 78.5  
 61 56.0 43.7 65.5

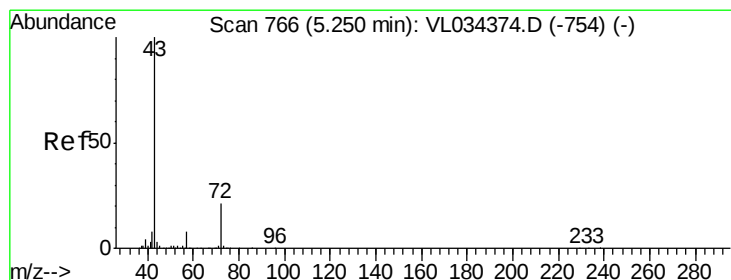
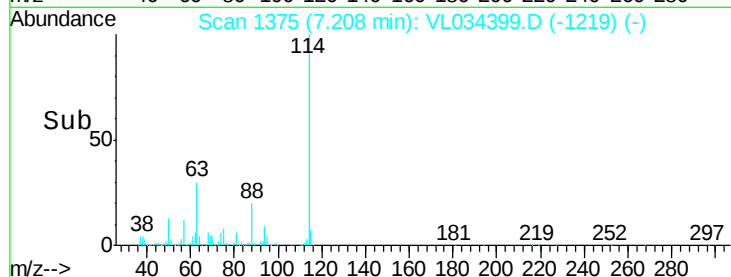
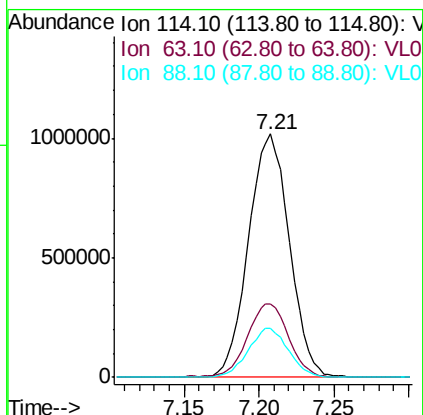
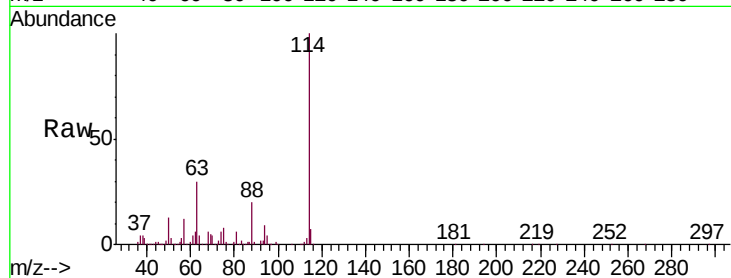




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.21 min Scan# 1375  
 Delta R.T. 0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

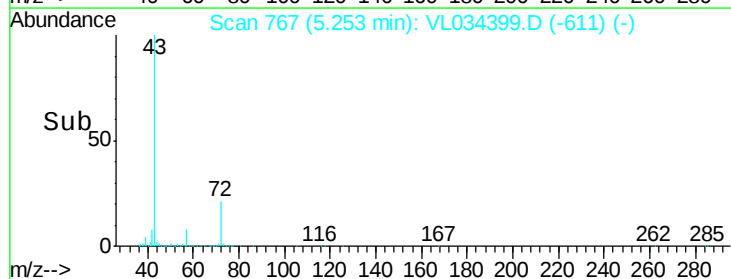
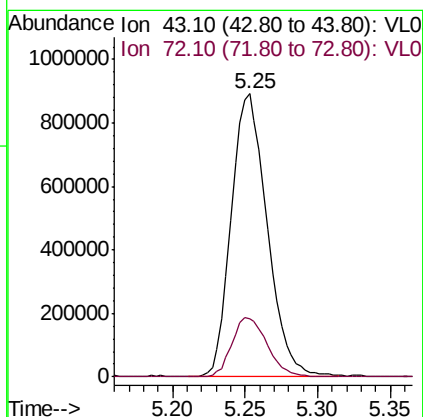
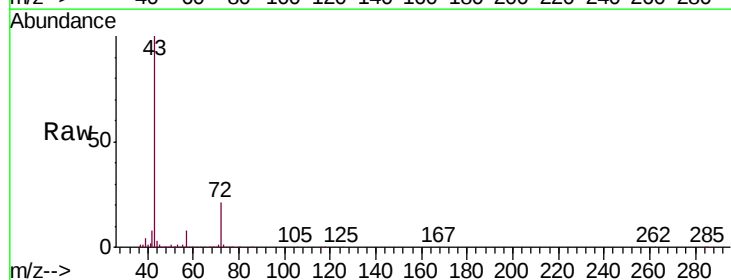
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

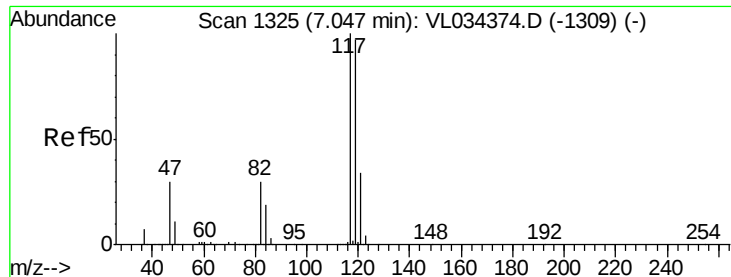
Tgt Ion:114 Resp: 1937534  
 Ion Ratio Lower Upper  
 114 100  
 63 30.7 24.2 36.4  
 88 19.8 15.9 23.9



#34  
 2-Butanone  
 Concen: 9.600 ppbv  
 RT: 5.25 min Scan# 767  
 Delta R.T. 0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion: 43 Resp: 1531006  
 Ion Ratio Lower Upper  
 43 100  
 72 20.7 17.0 25.6





#35

Carbon Tetrachloride

Concen: 9.953 ppbv

RT: 7.05 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

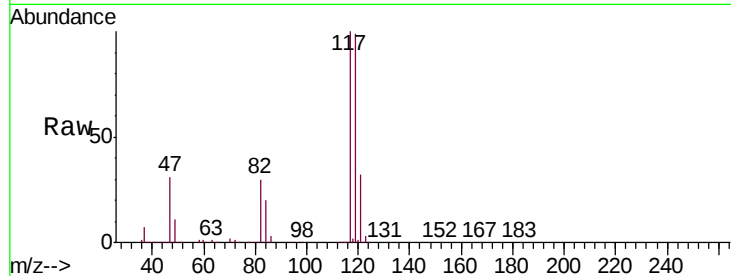
Tgt Ion:117 Resp: 1658102

Ion Ratio Lower Upper

117 100

119 99.0 77.3 115.9

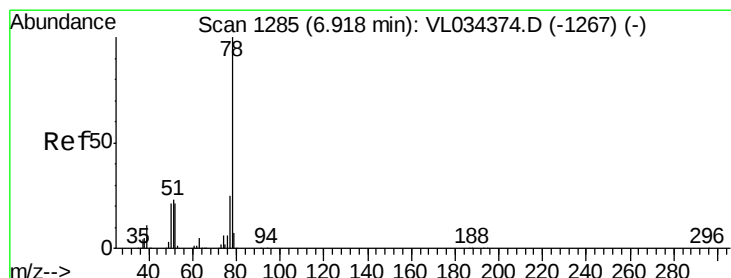
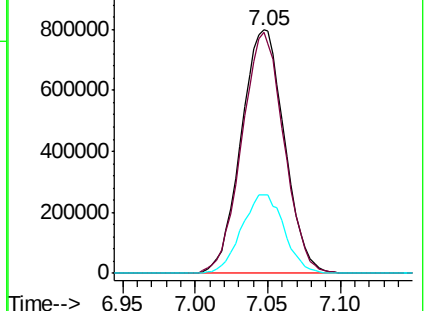
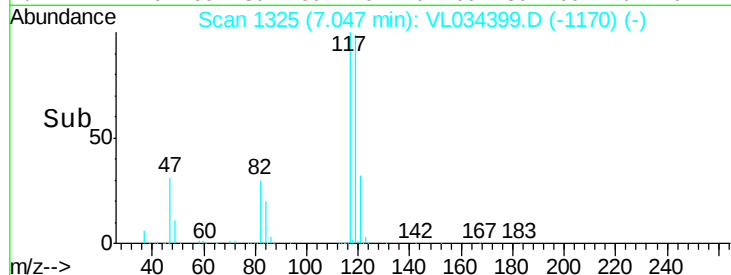
121 32.1 27.4 41.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.466 ppbv

RT: 6.92 min Scan# 1285

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

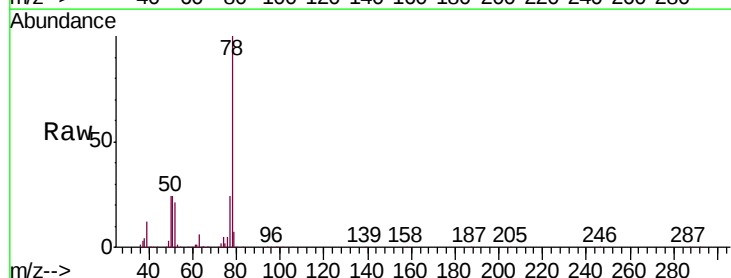
Tgt Ion: 78 Resp: 1833321

Ion Ratio Lower Upper

78 100

77 23.7 20.2 30.4

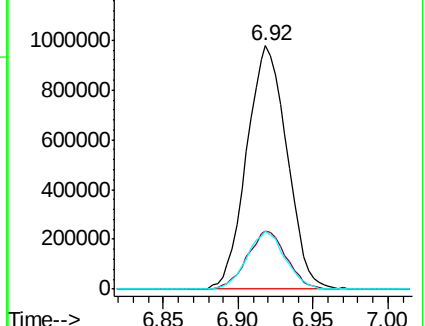
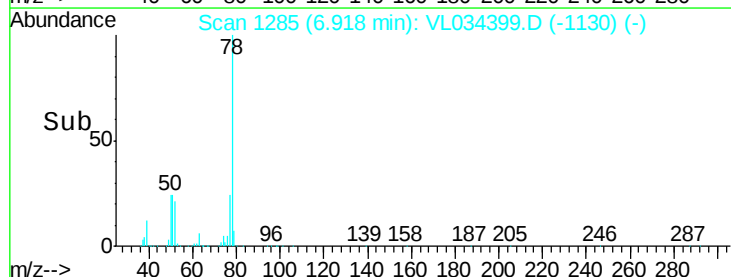
50 23.9 17.1 25.7

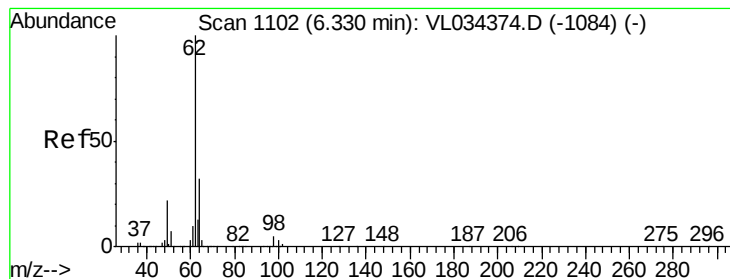


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 9.478 ppbv

RT: 6.33 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

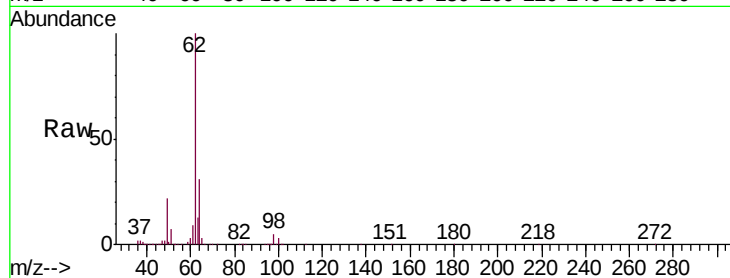
VSTDCCC010EC

Tgt Ion: 62 Resp: 1363707

Ion Ratio Lower Upper

62 100

98 4.8 3.8 5.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.33

800000

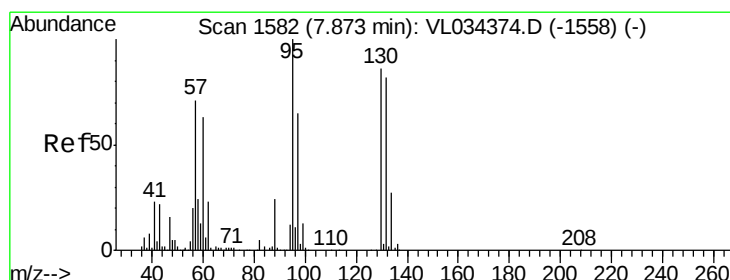
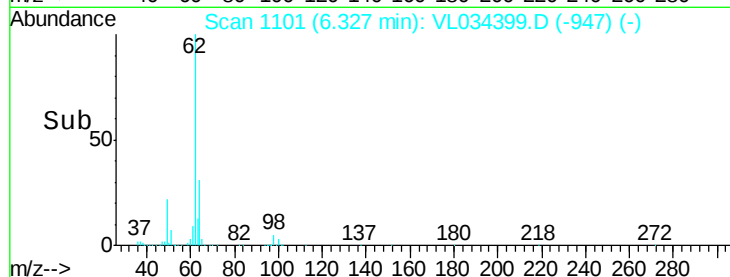
600000

400000

200000

0

Time-->



#38

Trichloroethene

Concen: 9.049 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Tgt Ion: 130 Resp: 719259

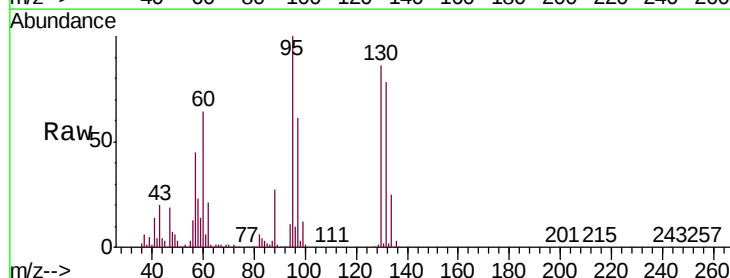
Ion Ratio Lower Upper

130 100

95 116.3 93.4 140.0

132 90.6 76.4 114.6

97 70.4 61.1 91.7



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

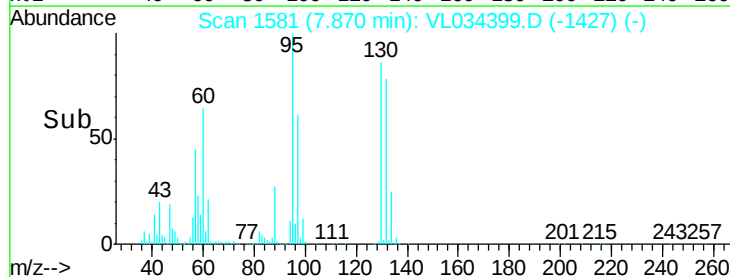
600000

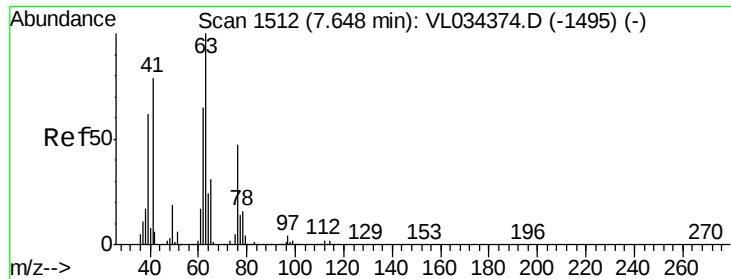
400000

200000

0

Time-->

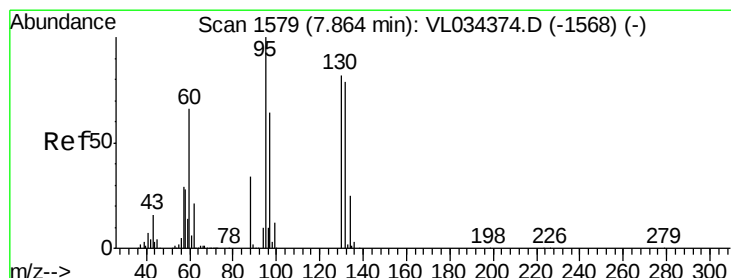
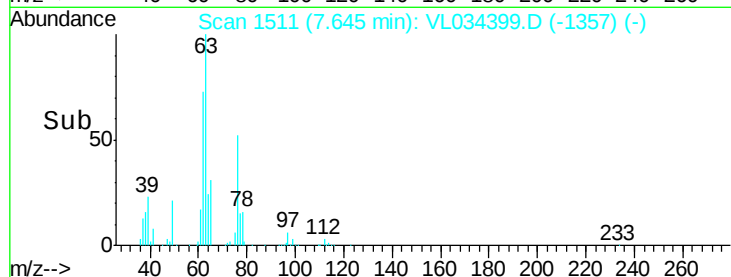
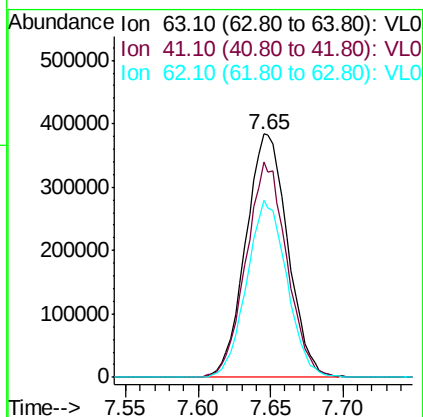
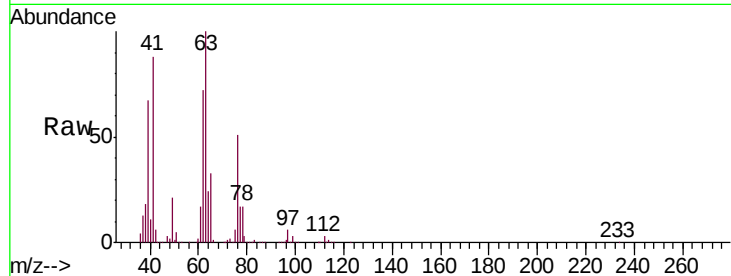




#39  
 1,2-Dichloropropane  
 Concen: 9.439 ppbv  
 RT: 7.65 min Scan# 1511  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

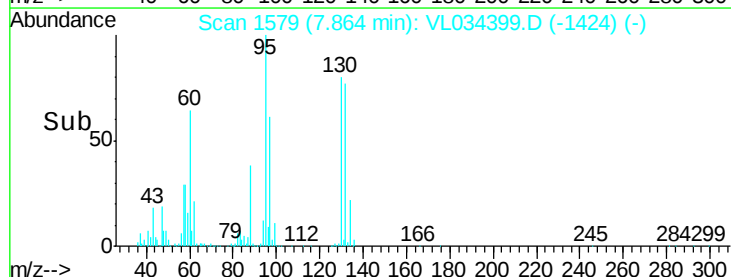
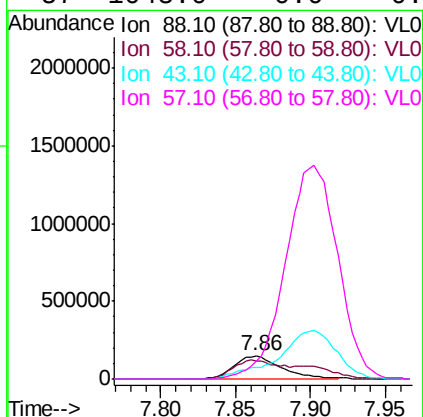
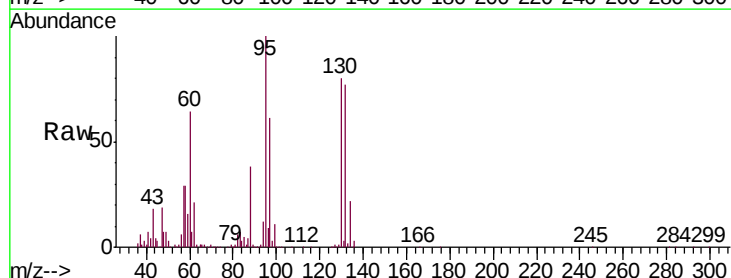
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

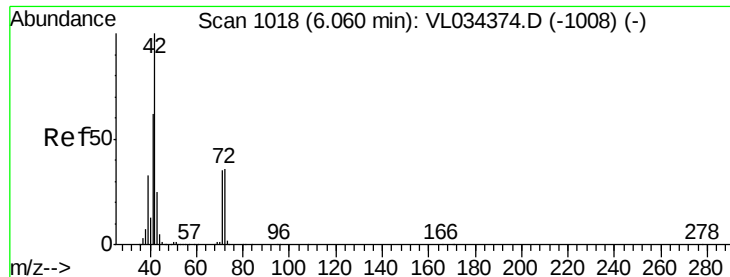
Tgt Ion: 63 Resp: 775031  
 Ion Ratio Lower Upper  
 63 100  
 41 88.4 63.1 94.7  
 62 72.5 52.3 78.5



#40  
 1,4-Dioxane  
 Concen: 9.815 ppbv  
 RT: 7.86 min Scan# 1579  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion: 88 Resp: 319921  
 Ion Ratio Lower Upper  
 88 100  
 58 131.2 109.5 164.3  
 43 262.8 0.0 0.0#  
 57 1048.0 0.0 0.0#





#41

Tetrahydrofuran

Concen: 9.693 ppbv

RT: 6.06 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

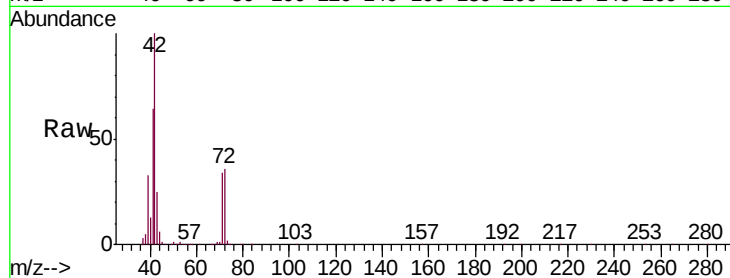
Tgt Ion: 42 Resp: 867100

Ion Ratio Lower Upper

42 100

72 37.3 30.2 45.4

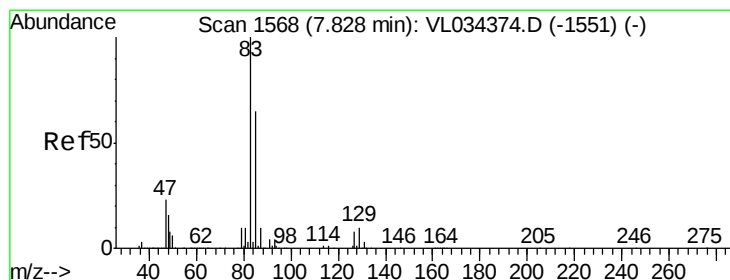
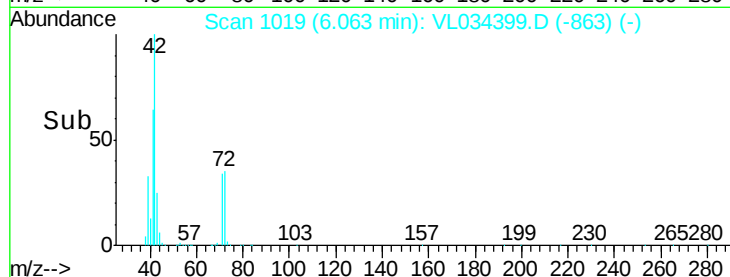
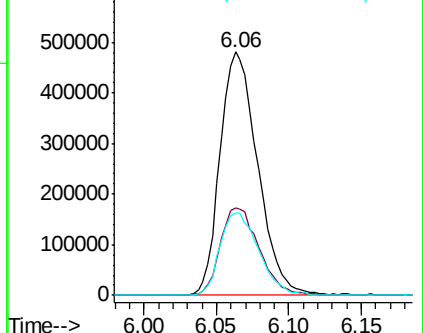
71 35.3 29.4 44.2



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: 9.725 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

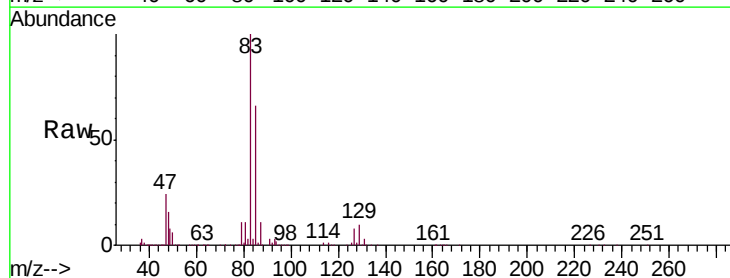
Tgt Ion: 83 Resp: 1749970

Ion Ratio Lower Upper

83 100

85 66.4 52.3 78.5

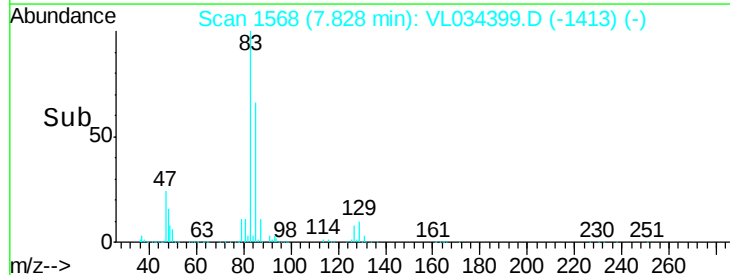
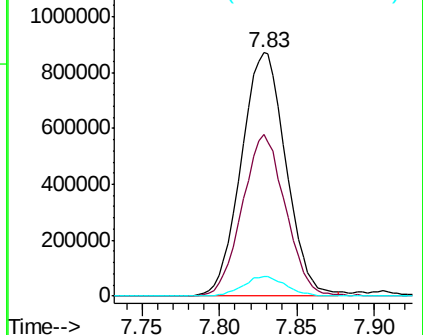
127 7.8 6.1 9.1

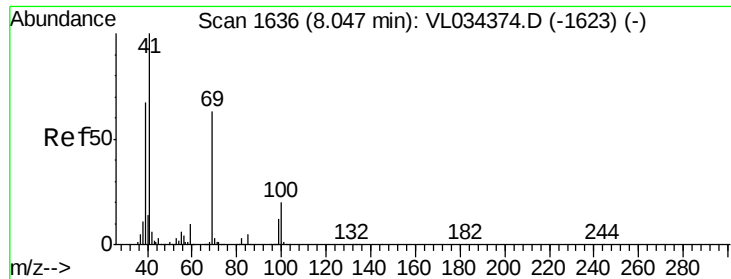


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

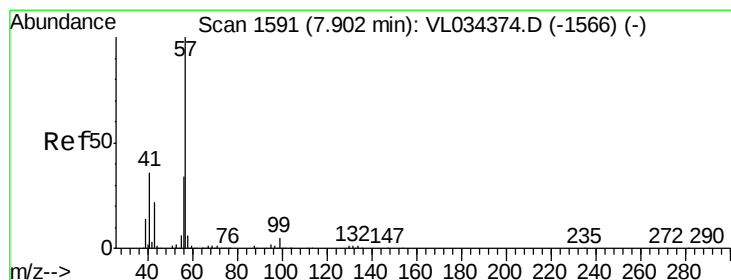
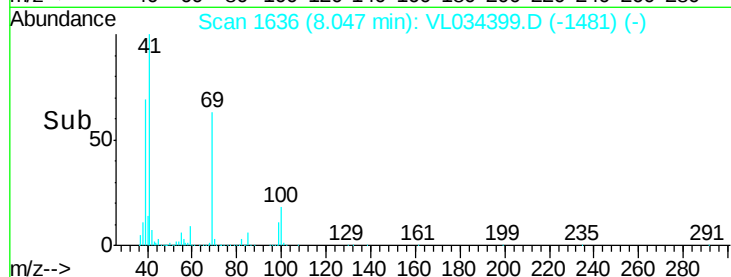
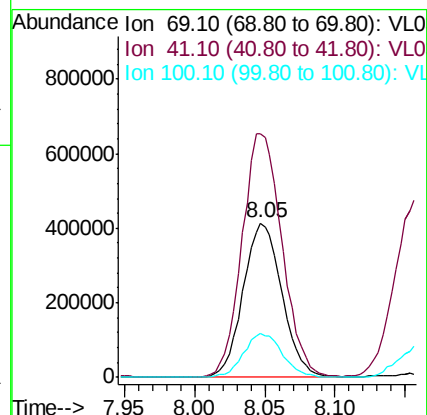
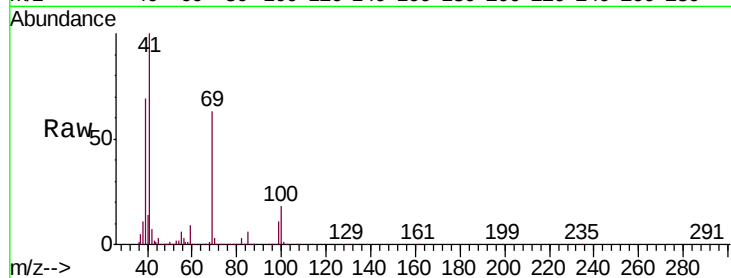




#43  
Methyl Methacrylate  
Concen: 9.934 ppbv  
RT: 8.05 min Scan# 1636  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

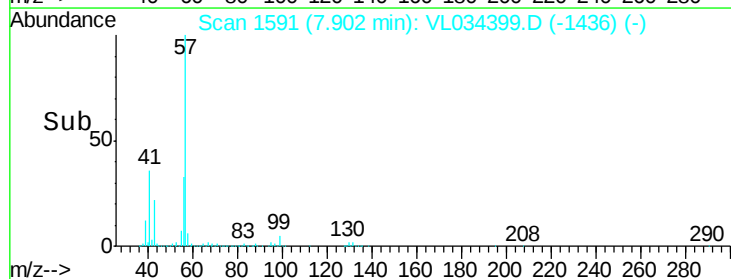
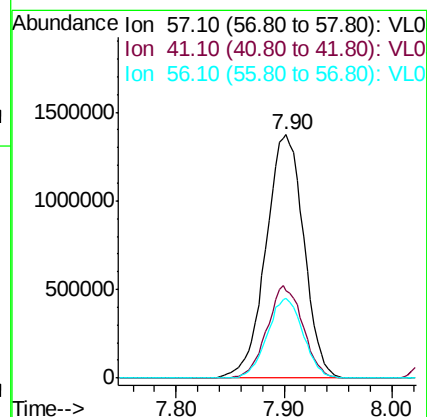
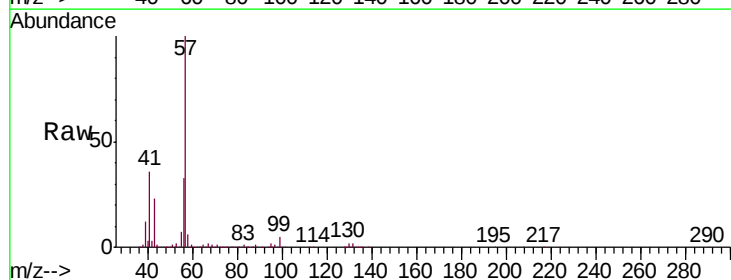
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

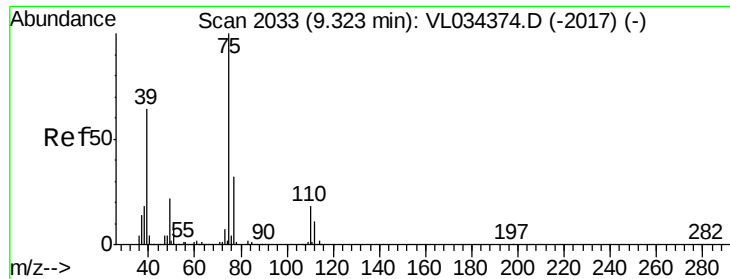
Tgt Ion: 69 Resp: 797997  
Ion Ratio Lower Upper  
69 100  
41 162.9 127.4 191.2  
100 28.5 24.2 36.4



#44  
2,2,4-Trimethylpentane  
Concen: 9.448 ppbv  
RT: 7.90 min Scan# 1591  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion: 57 Resp: 3344399  
Ion Ratio Lower Upper  
57 100  
41 35.8 28.6 42.8  
56 31.0 25.3 37.9

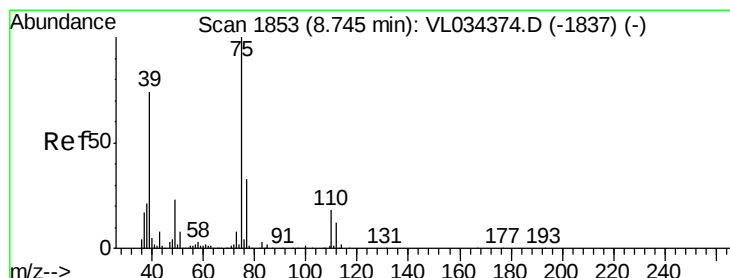
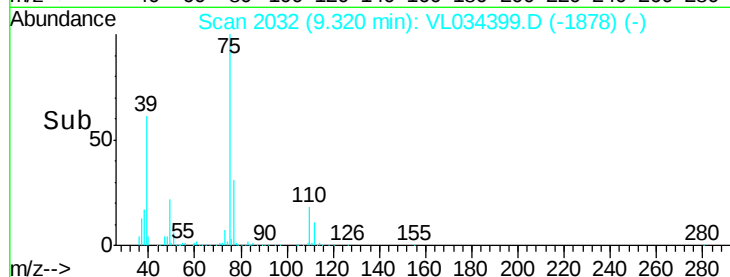
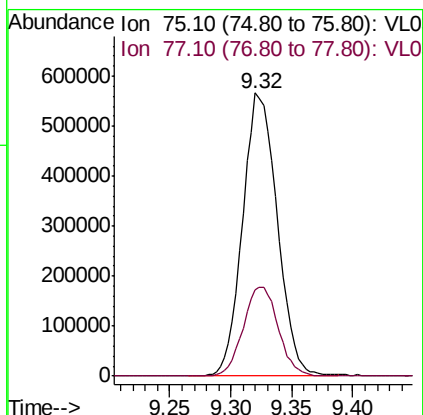
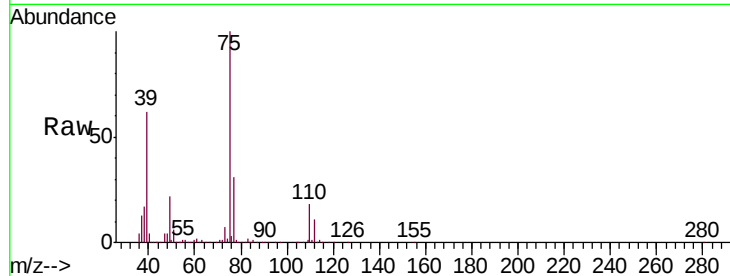




#45  
t-1,3-Dichloropropene  
Concen: 10.737 ppbv  
RT: 9.32 min Scan# 2032  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

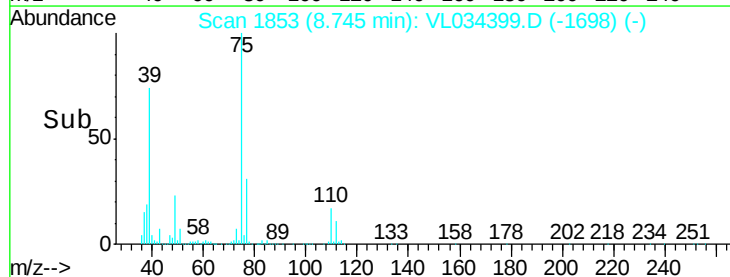
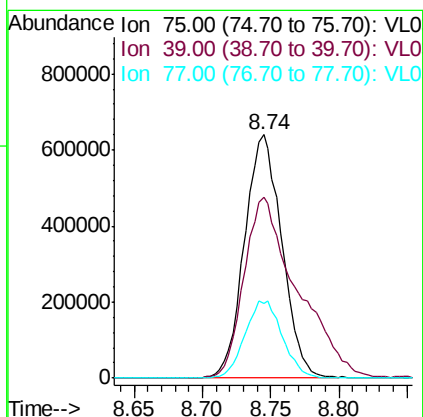
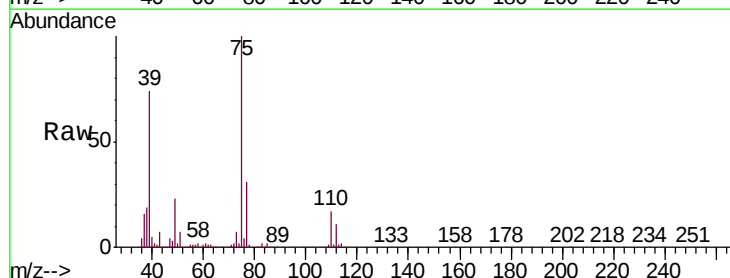
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

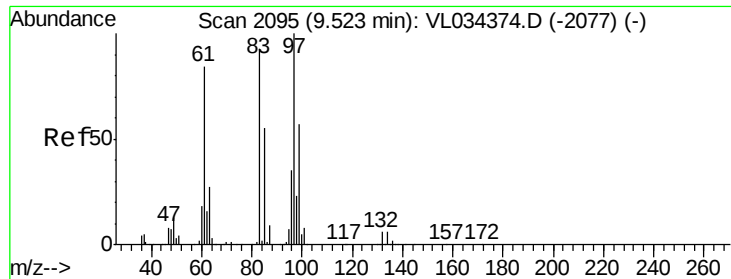
Tgt Ion: 75 Resp: 1106220  
Ion Ratio Lower Upper  
75 100  
77 30.6 25.4 38.2



#46  
cis-1,3-Dichloropropene  
Concen: 10.517 ppbv  
RT: 8.74 min Scan# 1853  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion: 75 Resp: 1217043  
Ion Ratio Lower Upper  
75 100  
39 74.1 59.0 88.6  
77 30.9 26.4 39.6

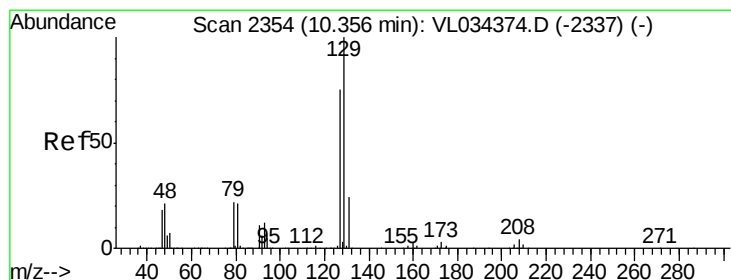
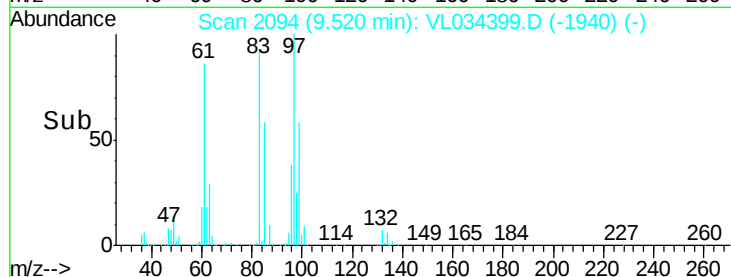
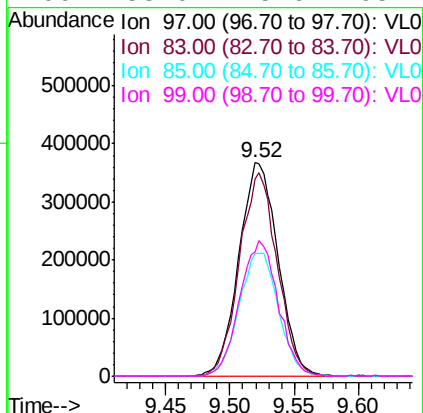
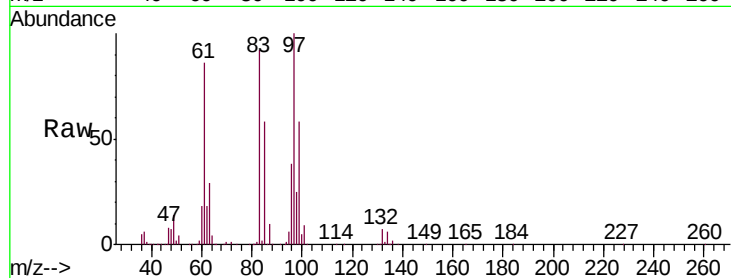




#47  
 1,1,2-Trichloroethane  
 Concen: 9.385 ppbv  
 RT: 9.52 min Scan# 2094  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

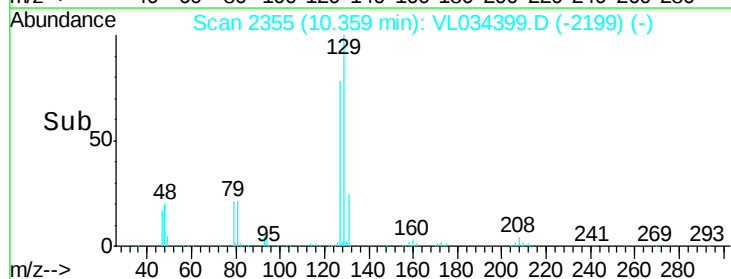
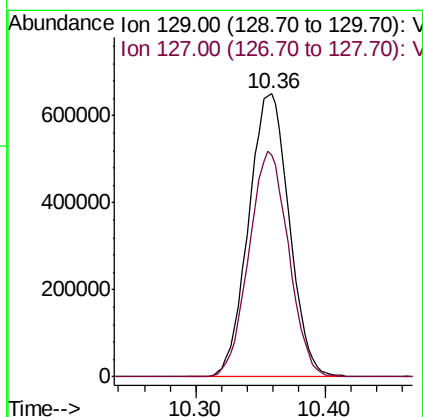
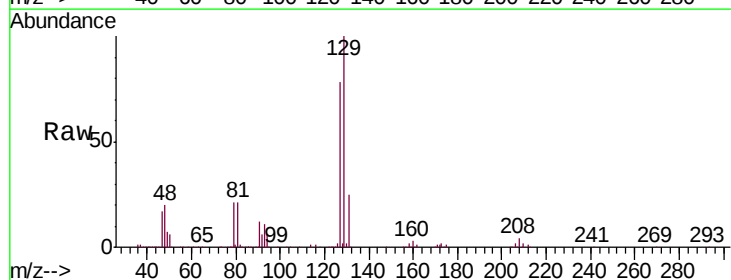
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

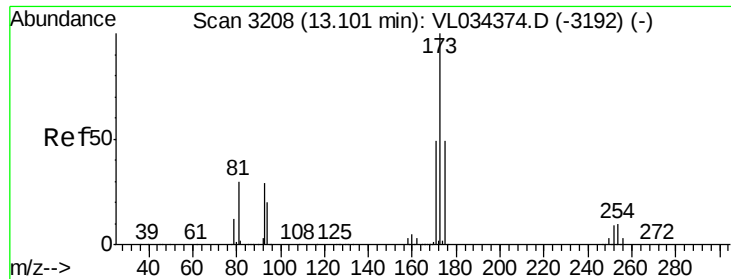
Tgt Ion: 97 Resp: 778999  
 Ion Ratio Lower Upper  
 97 100  
 83 92.3 74.6 112.0  
 85 57.8 43.8 65.8  
 99 58.0 45.6 68.4



#48  
 Dibromochloromethane  
 Concen: 10.007 ppbv  
 RT: 10.36 min Scan# 2355  
 Delta R.T. 0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion: 129 Resp: 1426140  
 Ion Ratio Lower Upper  
 129 100  
 127 78.3 39.1 117.5





#49

Bromoform

Concen: 9.785 ppbv

RT: 13.10 min Scan# 3208

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

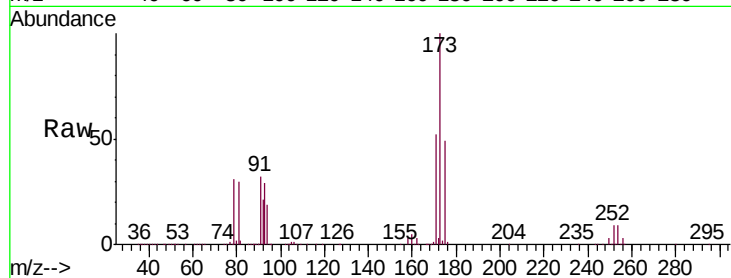
Tgt Ion: 173 Resp: 1244895

Ion Ratio Lower Upper

173 100

175 49.0 39.3 58.9

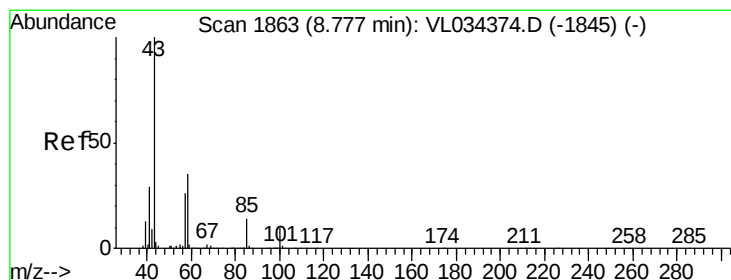
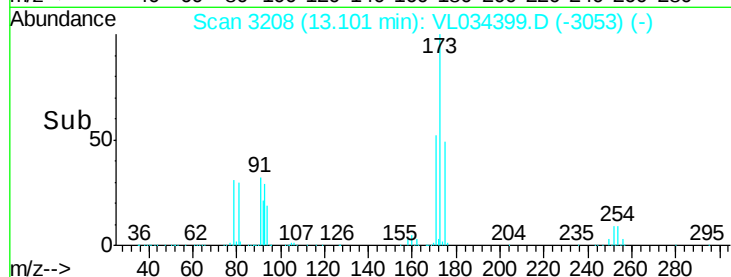
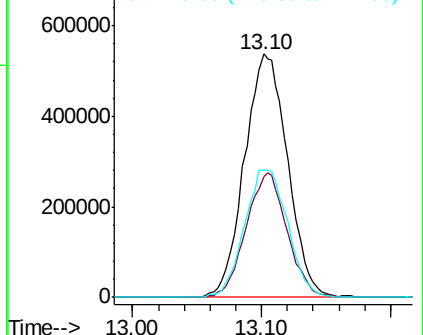
171 52.8 42.4 63.6



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.838 ppbv

RT: 8.78 min Scan# 1863

Delta R.T. -0.00 min

Lab File: VL034399.D

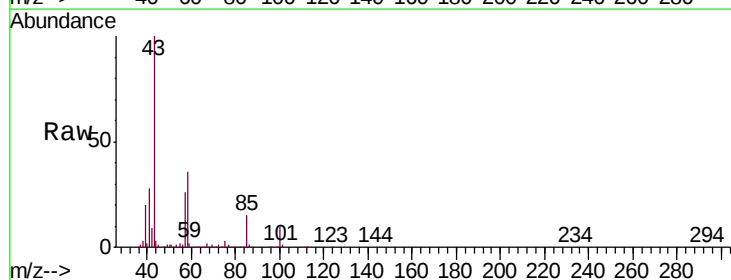
Acq: 20 Nov 2019 4:06

Tgt Ion: 43 Resp: 2270178

Ion Ratio Lower Upper

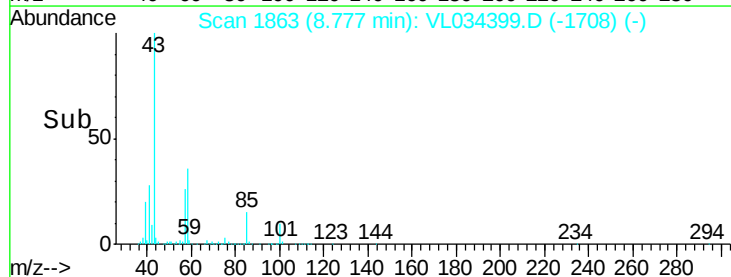
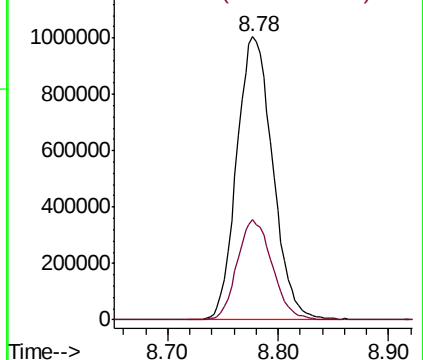
43 100

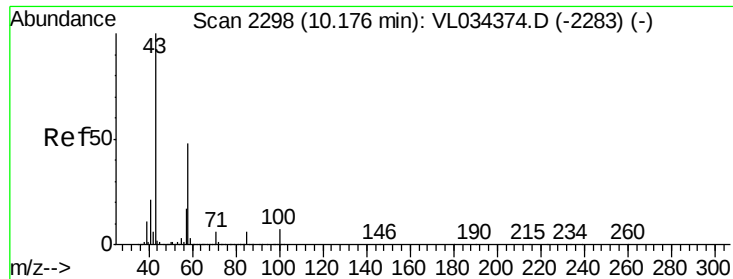
58 34.6 27.9 41.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

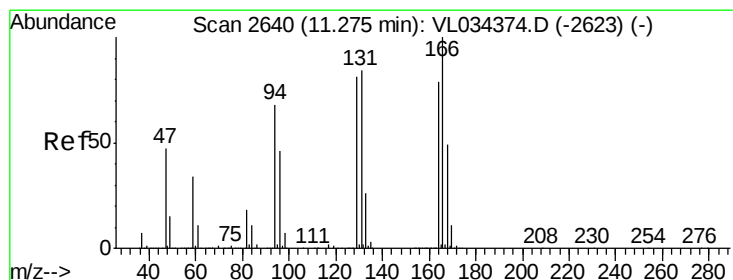
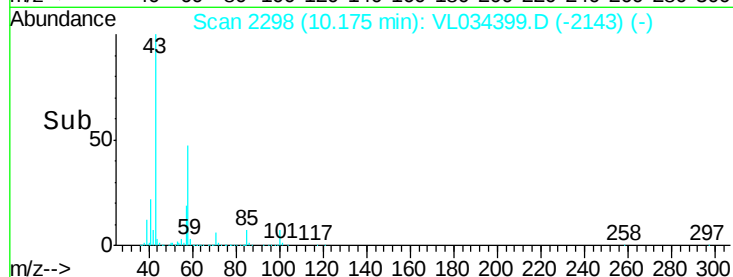
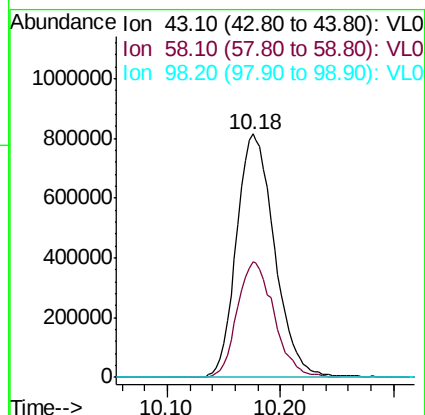
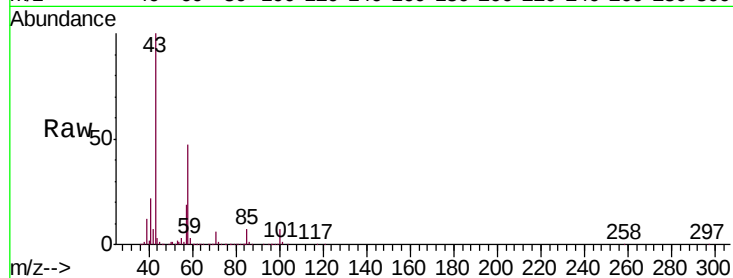




#51  
2-Hexanone  
Concen: 9.842 ppbv  
RT: 10.18 min Scan# 2298  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

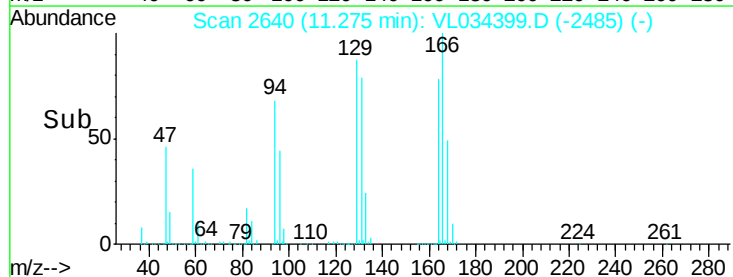
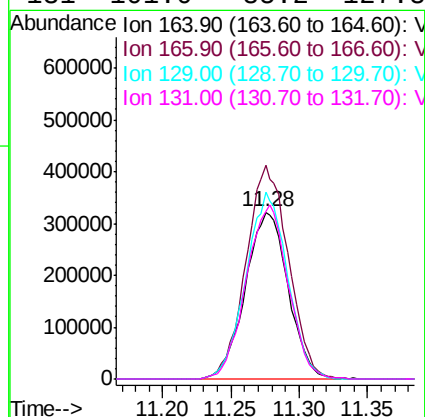
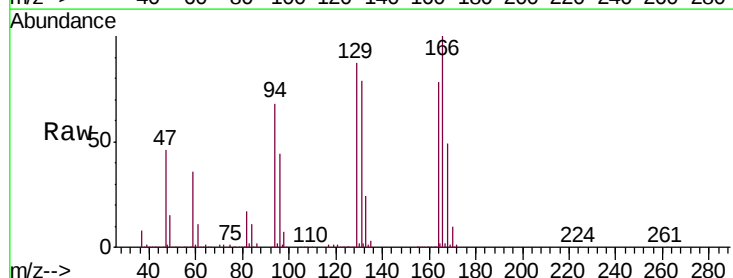
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

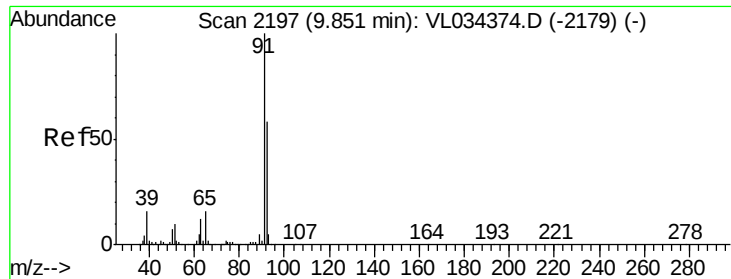
Tgt Ion: 43 Resp: 1902307  
Ion Ratio Lower Upper  
43 100  
58 46.3 38.2 57.4  
98 0.3 0.2 0.2#



#52  
Tetrachloroethene  
Concen: 8.324 ppbv  
RT: 11.28 min Scan# 2640  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion: 164 Resp: 697541  
Ion Ratio Lower Upper  
164 100  
166 128.3 101.7 152.5  
129 112.2 82.6 123.8  
131 101.0 85.2 127.8





#53

Toluene

Concen: 9.730 ppbv

RT: 9.85 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

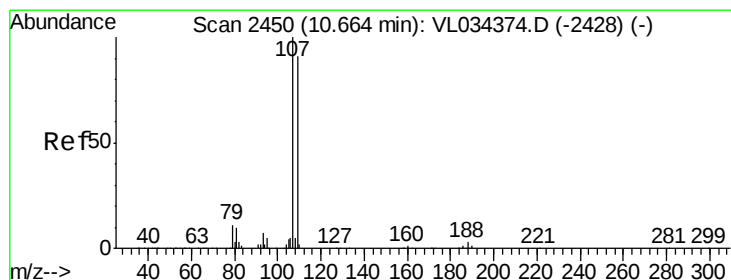
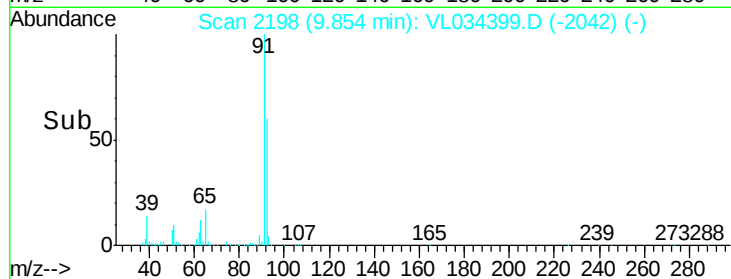
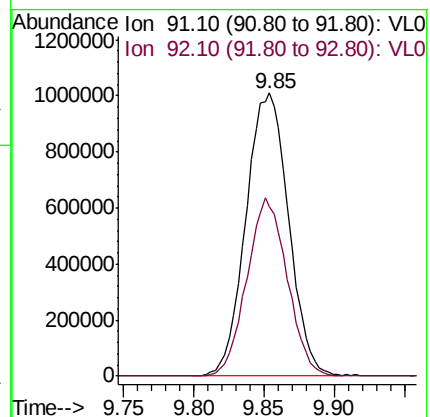
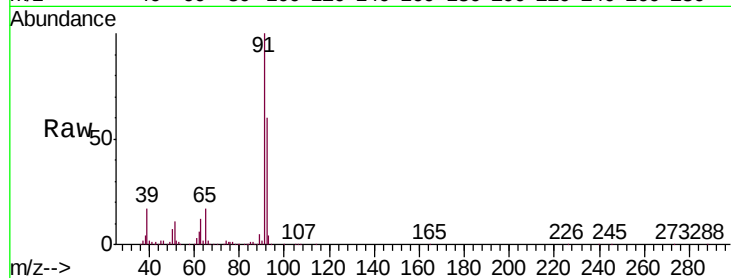
VSTDCCC010EC

Tgt Ion: 91 Resp: 2140576

Ion Ratio Lower Upper

91 100

92 59.6 47.9 71.9



#54

1,2-Dibromoethane

Concen: 9.364 ppbv

RT: 10.66 min Scan# 2449

Delta R.T. -0.00 min

Lab File: VL034399.D

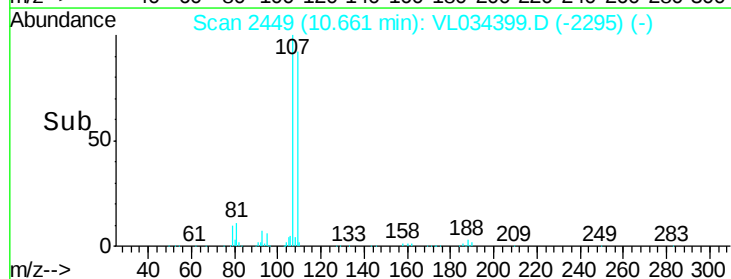
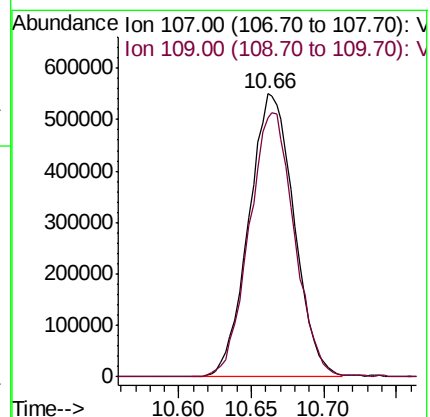
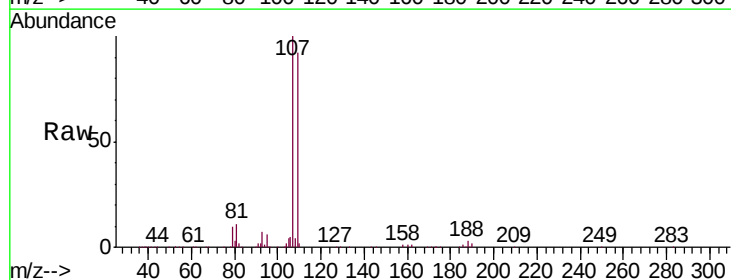
Acq: 20 Nov 2019 4:06

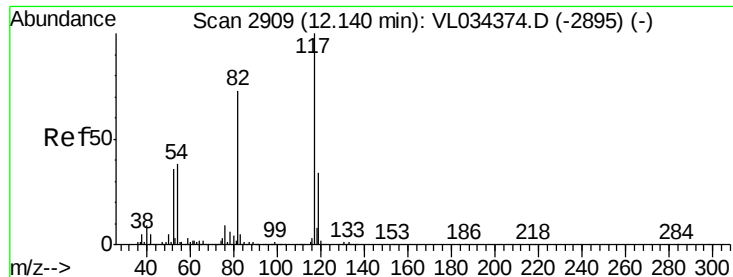
Tgt Ion: 107 Resp: 1191589

Ion Ratio Lower Upper

107 100

109 91.7 73.0 109.4

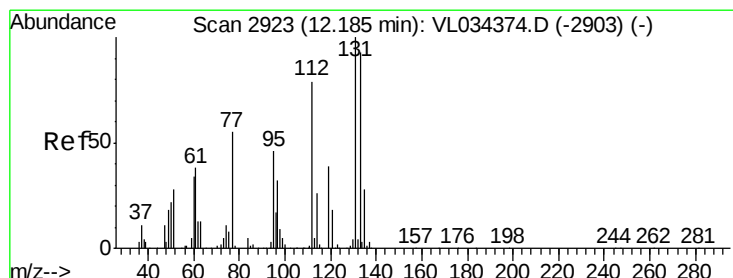
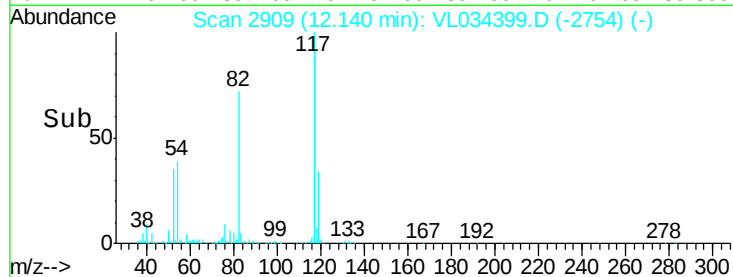
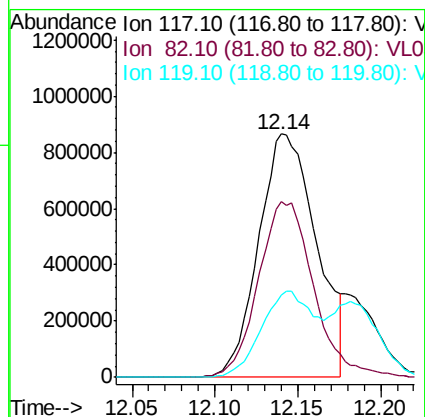
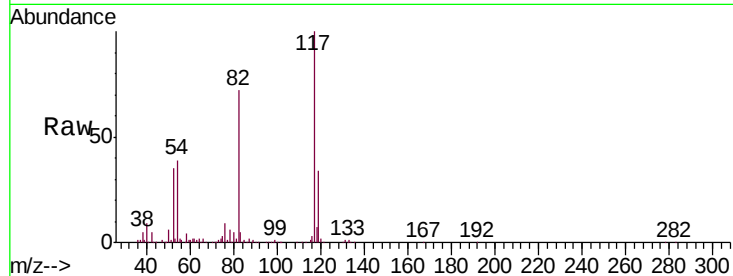




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.14 min Scan# 2909  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

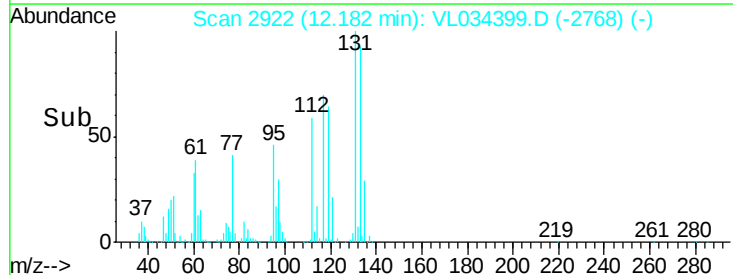
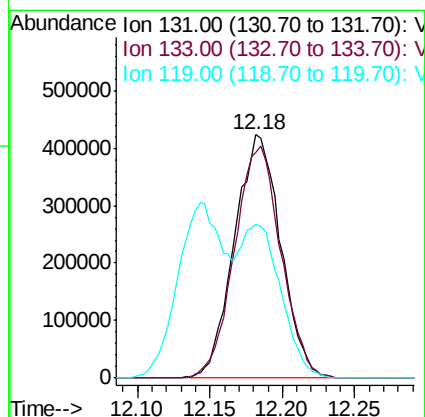
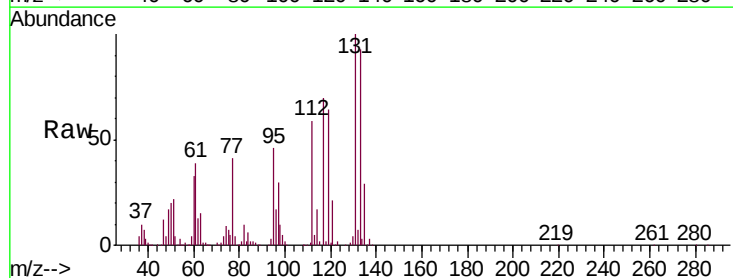
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

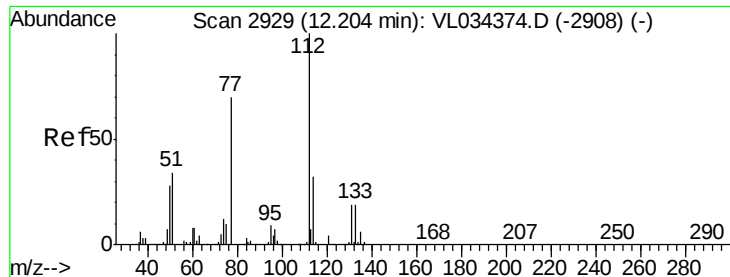
Tgt Ion:117 Resp: 2100349  
Ion Ratio Lower Upper  
117 100  
82 69.3 57.5 86.3  
119 32.9 25.4 38.2



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.087 ppbv  
RT: 12.18 min Scan# 2922  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion:131 Resp: 933619  
Ion Ratio Lower Upper  
131 100  
133 96.4 76.2 114.2  
119 66.1 44.6 67.0





#57

Chlorobenzene

Concen: 8.566 ppbv

RT: 12.20 min Scan# 2928

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

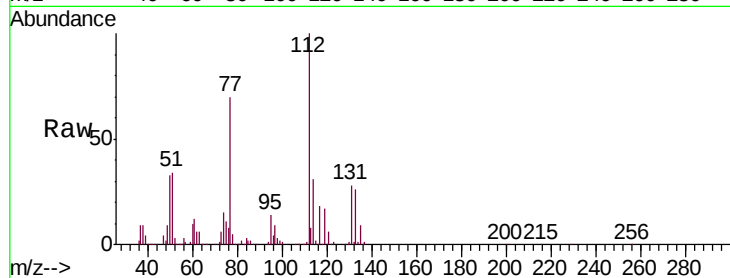
Tgt Ion: 112 Resp: 1626384

Ion Ratio Lower Upper

112 100

77 70.2 57.1 85.7

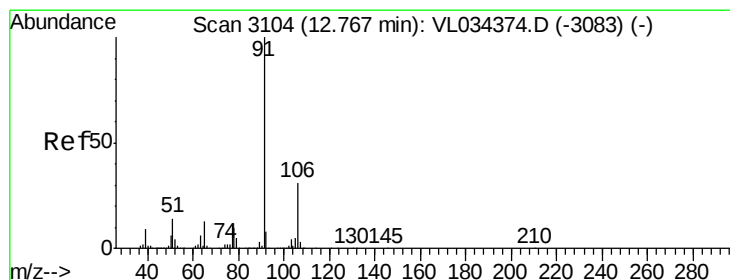
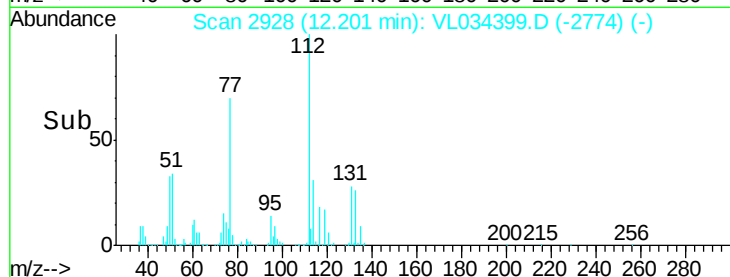
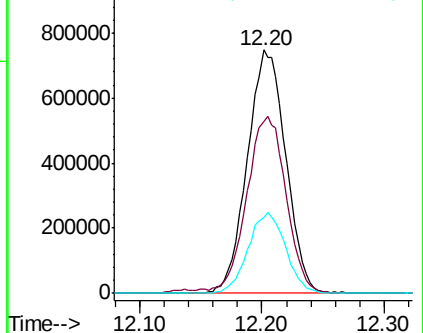
114 31.1 28.5 34.9



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: 8.995 ppbv

RT: 12.76 min Scan# 3103

Delta R.T. -0.00 min

Lab File: VL034399.D

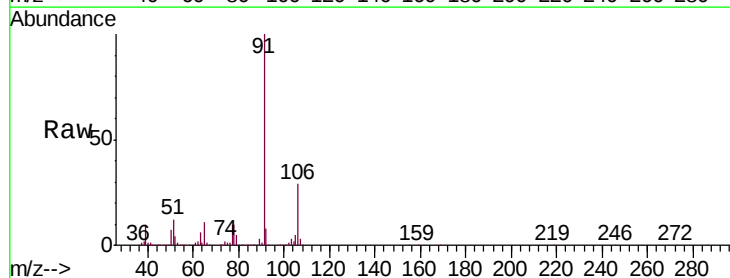
Acq: 20 Nov 2019 4:06

Tgt Ion: 91 Resp: 2931819

Ion Ratio Lower Upper

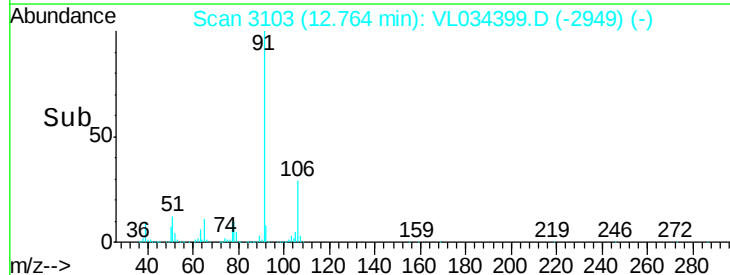
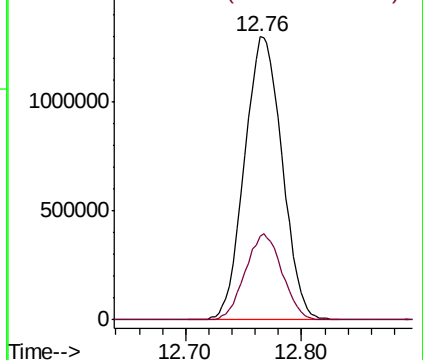
91 100

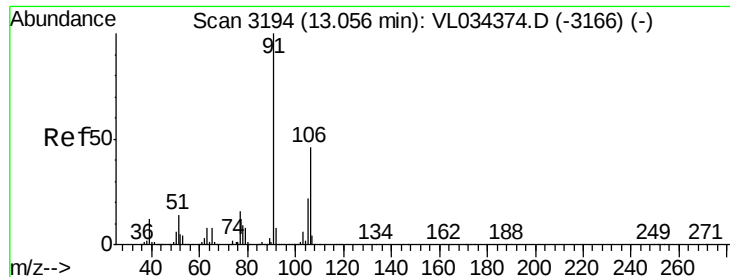
106 29.4 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

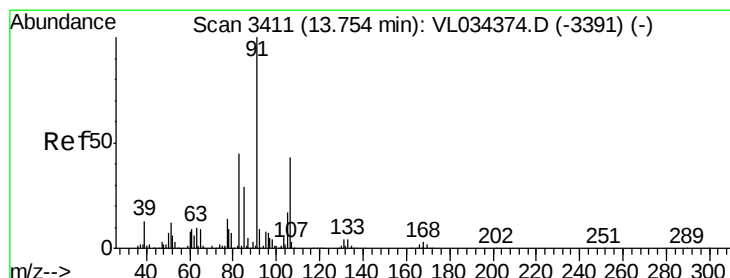
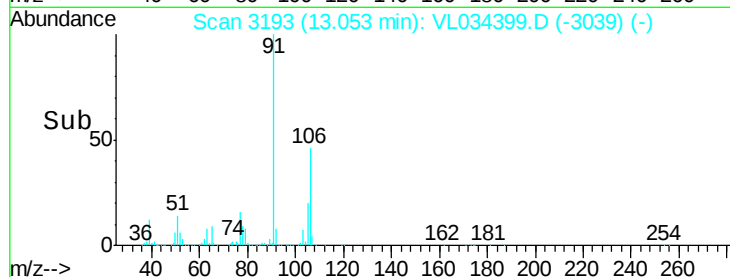
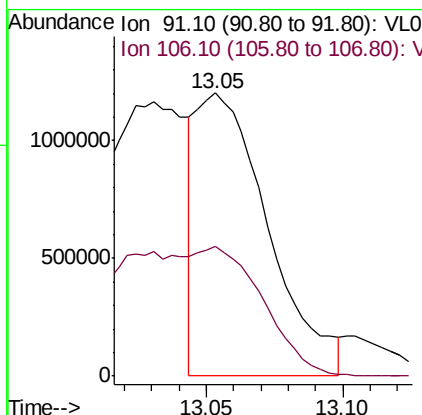
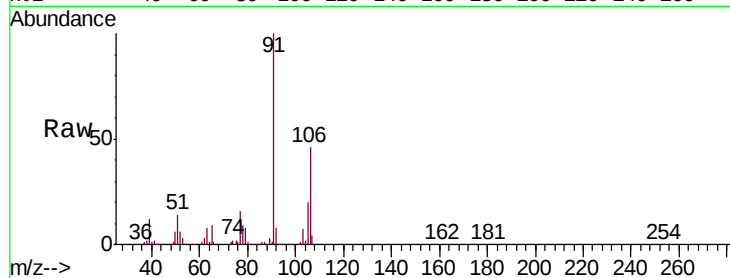




#59  
m/p-Xylene  
Concen: 7.727 ppbv  
RT: 13.05 min Scan# 3193  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

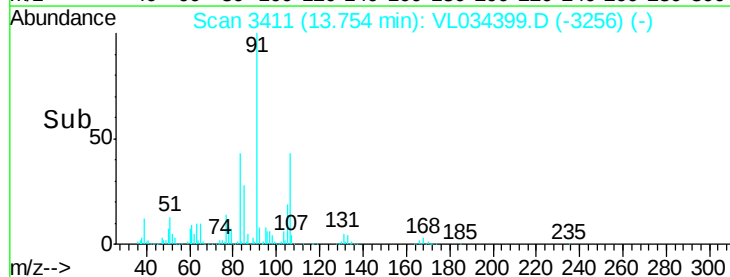
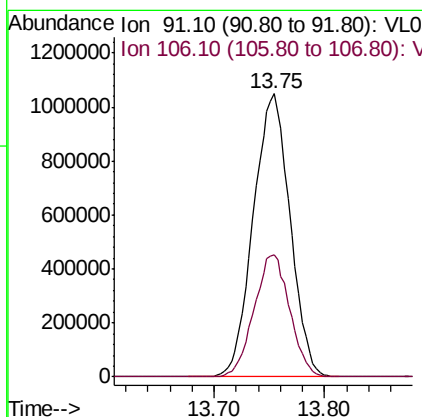
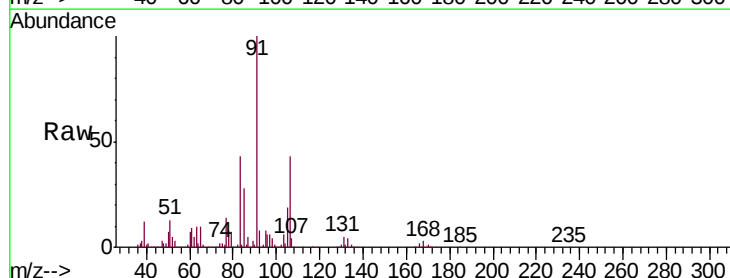
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

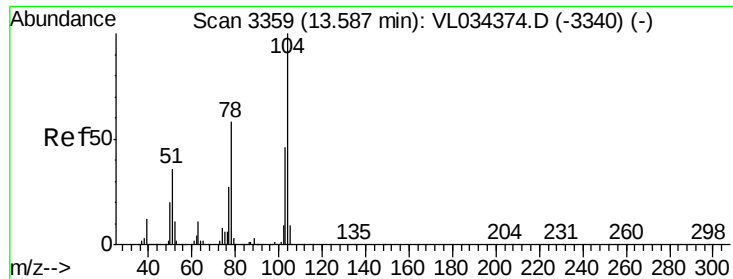
Tgt Ion: 91 Resp: 2176968  
Ion Ratio Lower Upper  
91 100  
106 98.3 34.6 51.8#



#60  
o-Xylene  
Concen: 8.699 ppbv  
RT: 13.75 min Scan# 3411  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion: 91 Resp: 2423402  
Ion Ratio Lower Upper  
91 100  
106 42.0 21.3 64.0





#61

Styrene

Concen: 8.979 ppbv

RT: 13.59 min Scan# 3359

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

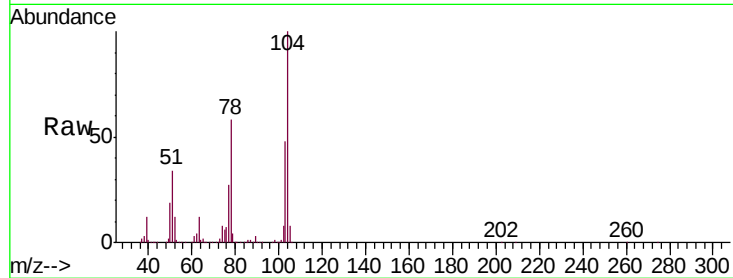
Tgt Ion:104 Resp: 1803867

Ion Ratio Lower Upper

104 100

78 60.2 47.6 71.4

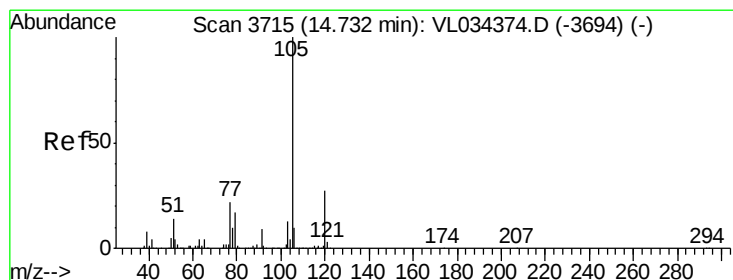
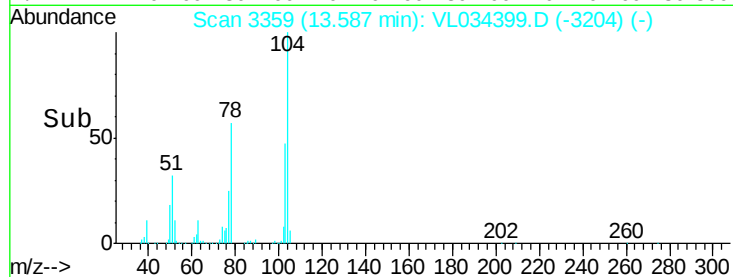
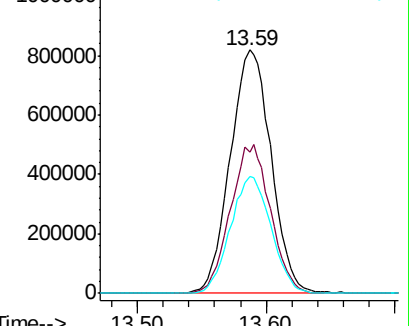
103 48.0 38.6 57.8



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: 8.568 ppbv

RT: 14.73 min Scan# 3714

Delta R.T. -0.00 min

Lab File: VL034399.D

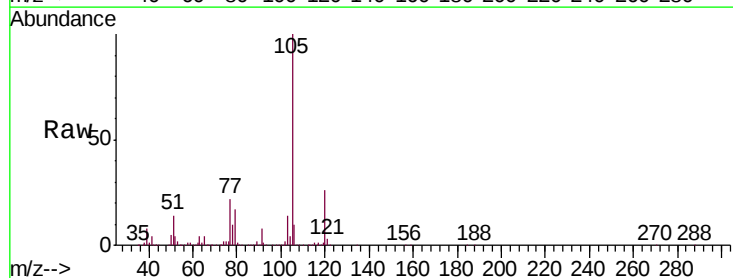
Acq: 20 Nov 2019 4:06

Tgt Ion:105 Resp: 3156555

Ion Ratio Lower Upper

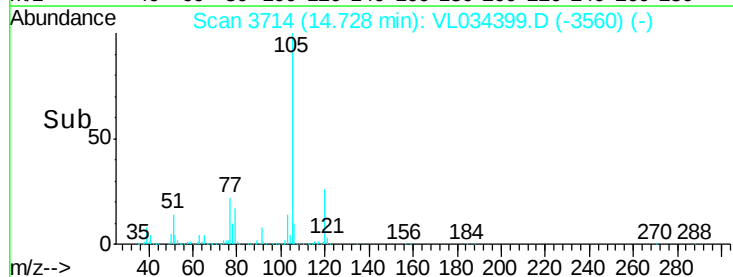
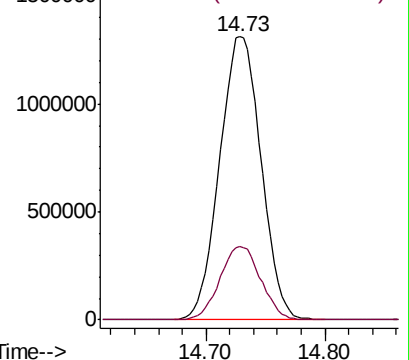
105 100

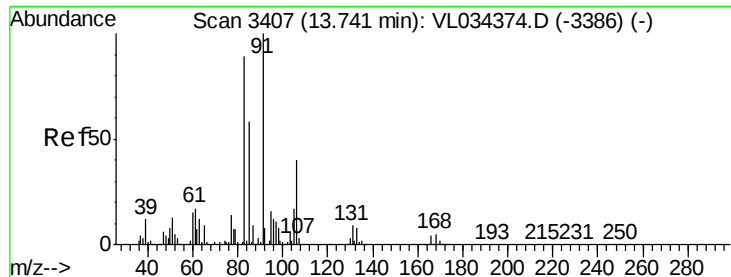
120 25.5 20.2 30.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.840 ppbv

RT: 13.74 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010EC

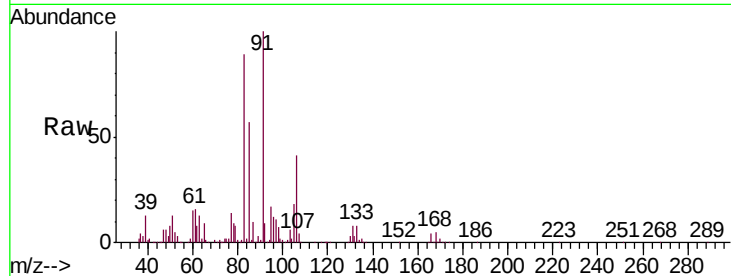
Tgt Ion: 83 Resp: 1641782

Ion Ratio Lower Upper

83 100

131 9.6 4.9 14.7

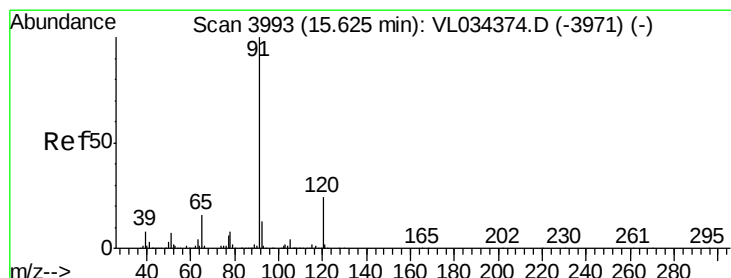
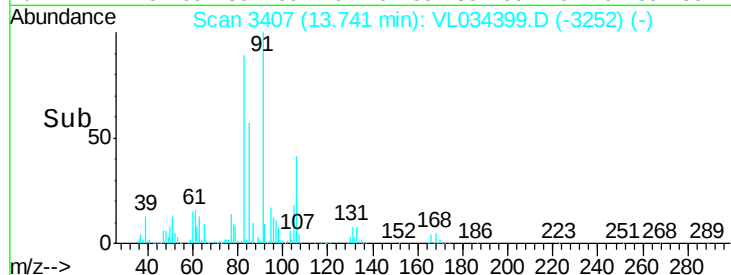
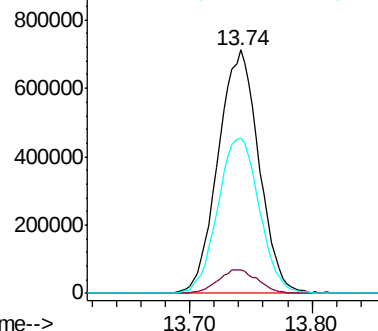
85 65.4 32.6 97.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.387 ppbv

RT: 15.63 min Scan# 3993

Delta R.T. -0.00 min

Lab File: VL034399.D

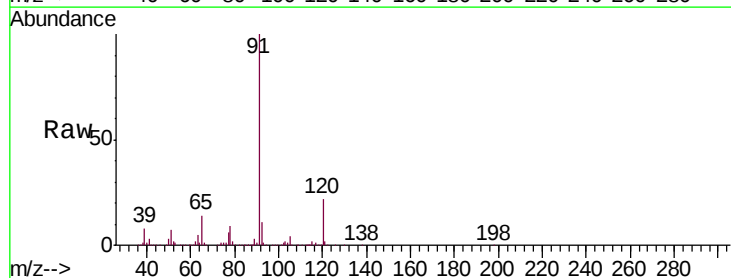
Acq: 20 Nov 2019 4:06

Tgt Ion: 120 Resp: 802465

Ion Ratio Lower Upper

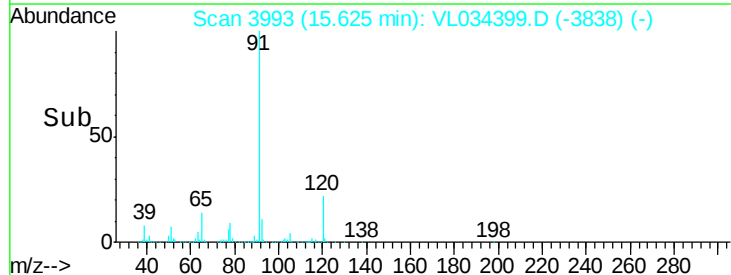
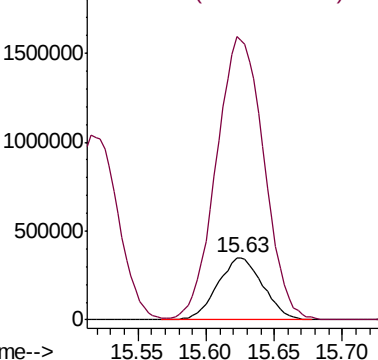
120 100

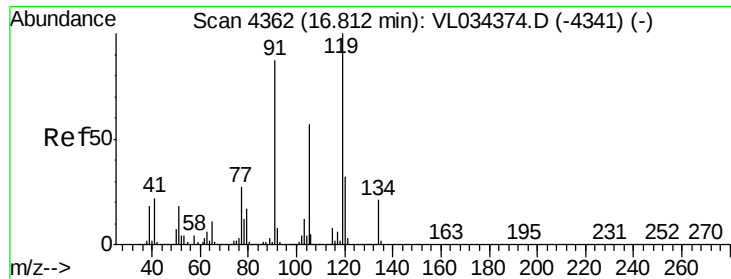
91 482.4 370.9 556.3



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

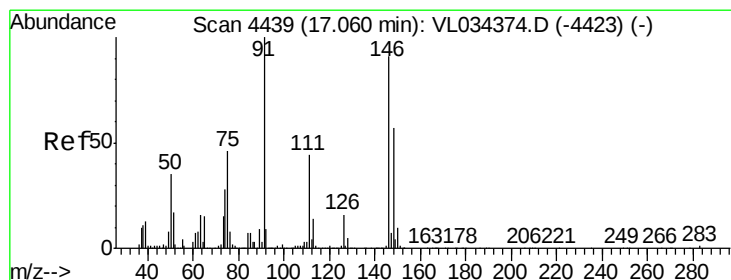
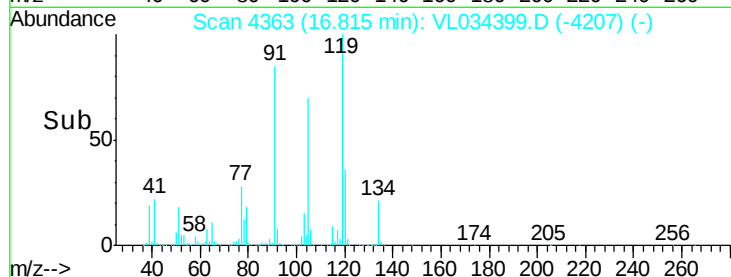
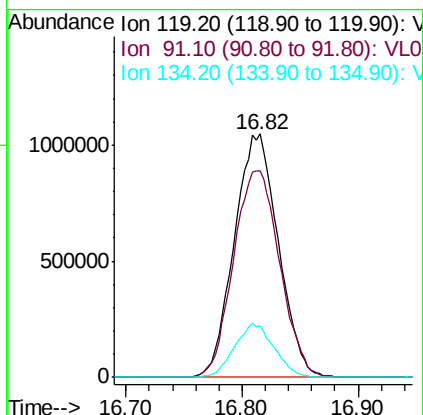
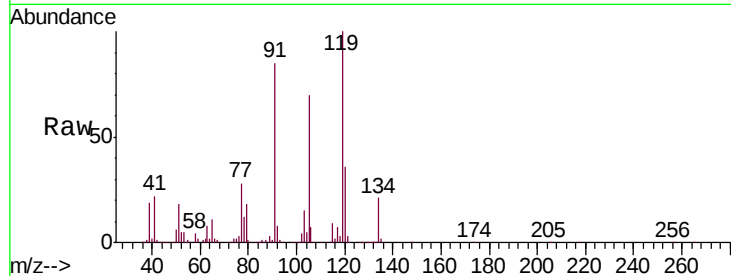




#65  
 tert-Butylbenzene  
 Concen: 8.332 ppbv  
 RT: 16.82 min Scan# 4363  
 Delta R.T. 0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

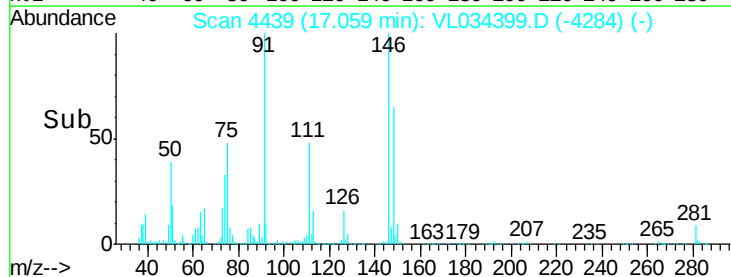
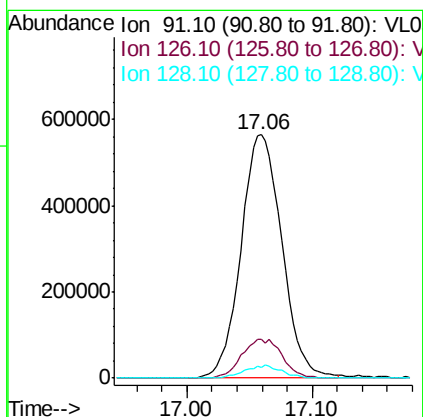
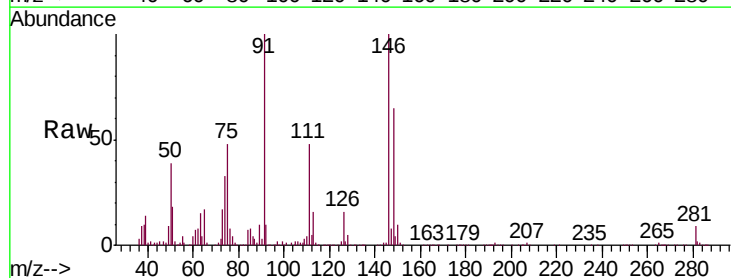
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

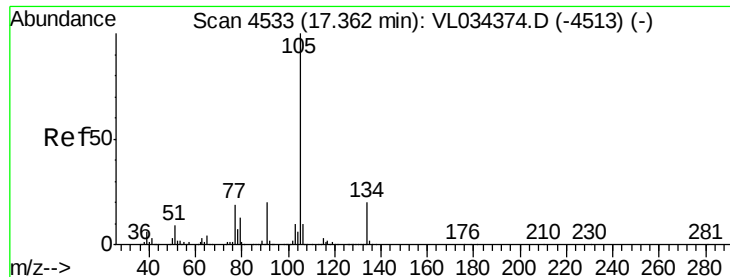
Tgt Ion: 119 Resp: 2757548  
 Ion Ratio Lower Upper  
 119 100  
 91 89.5 71.6 107.4  
 134 19.9 15.9 23.9



#66  
 Benzyl Chloride  
 Concen: 10.014 ppbv  
 RT: 17.06 min Scan# 4439  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion: 91 Resp: 1274882  
 Ion Ratio Lower Upper  
 91 100  
 126 16.1 12.9 19.3  
 128 4.9 4.3 6.5

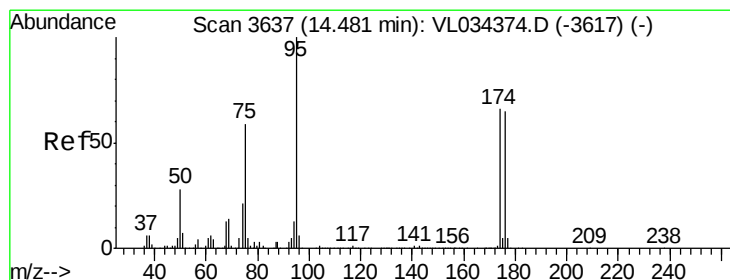
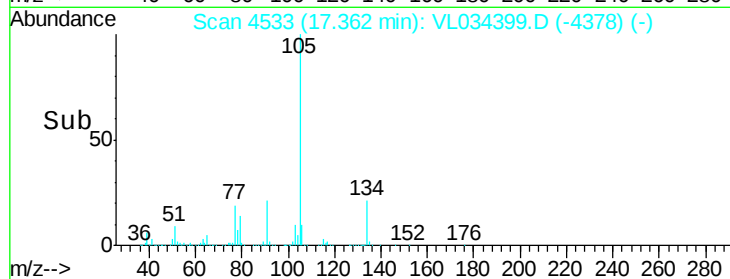
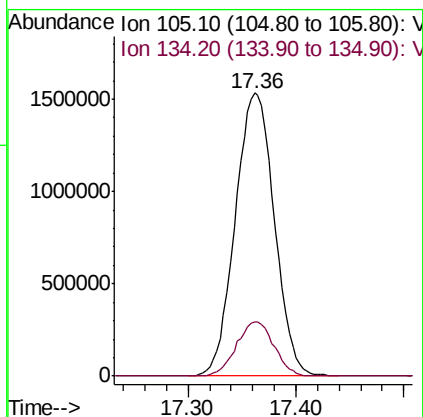
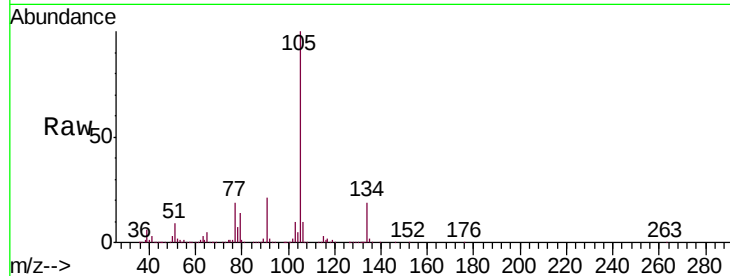




#67  
 sec-Butylbenzene  
 Concen: 8.335 ppbv  
 RT: 17.36 min Scan# 4533  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

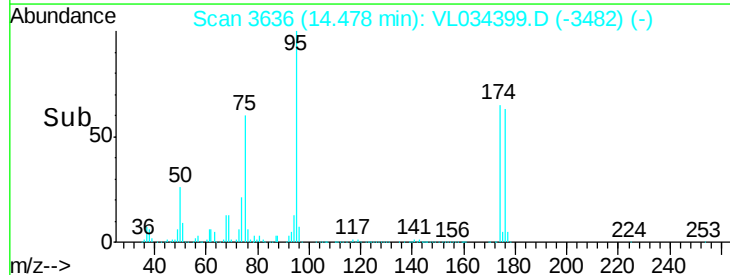
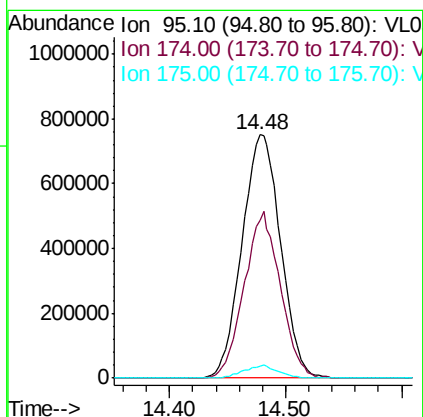
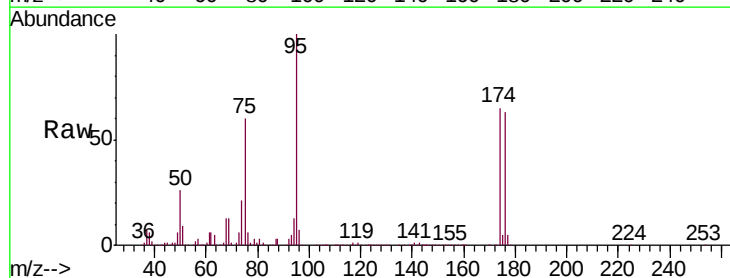
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

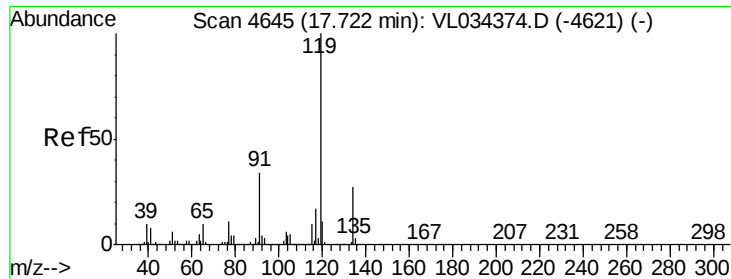
Tgt Ion: 105 Resp: 3858522  
 Ion Ratio Lower Upper  
 105 100  
 134 18.5 15.0 22.6



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.816 ppbv  
 RT: 14.48 min Scan# 3636  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion: 95 Resp: 1734518  
 Ion Ratio Lower Upper  
 95 100  
 174 64.3 52.2 78.2  
 175 4.8 3.8 5.8

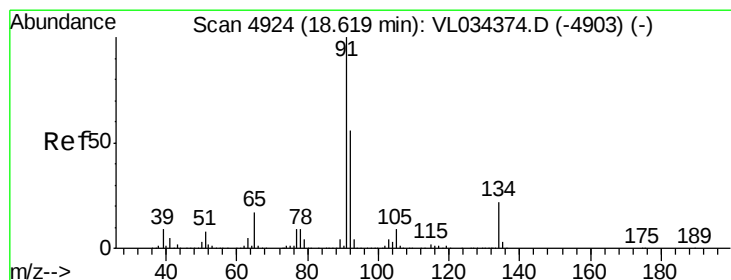
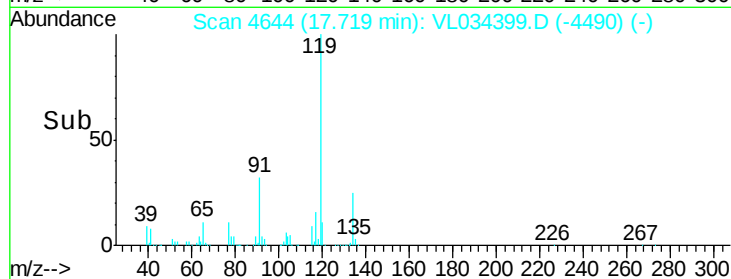
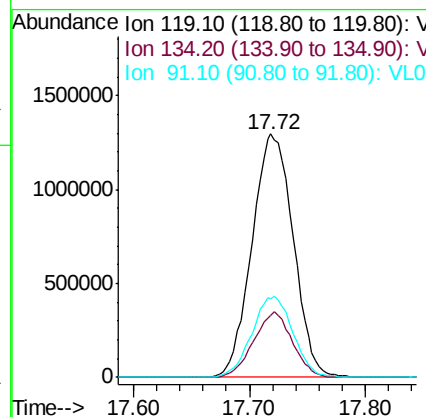
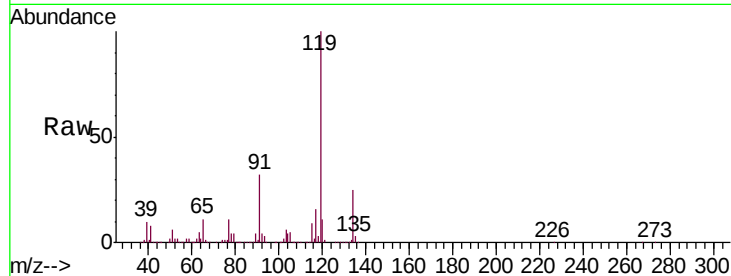




#69  
p-Isopropyltoluene  
Concen: 8.345 ppbv  
RT: 17.72 min Scan# 4644  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

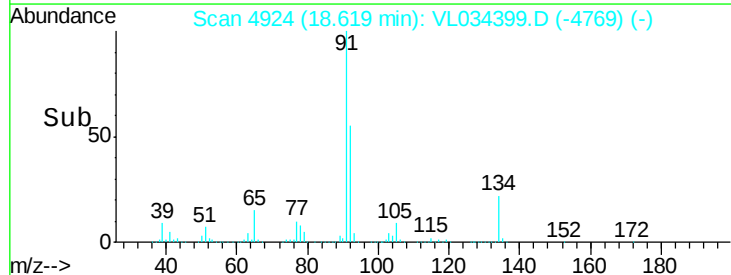
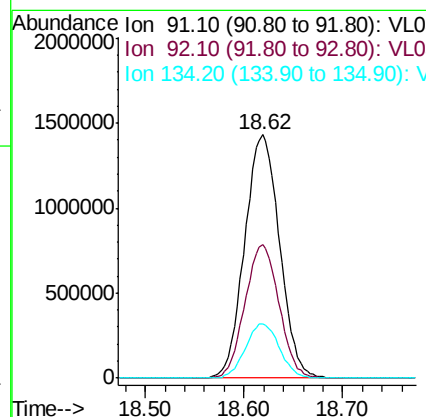
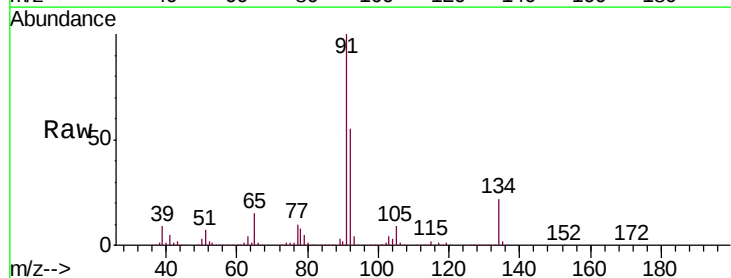
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

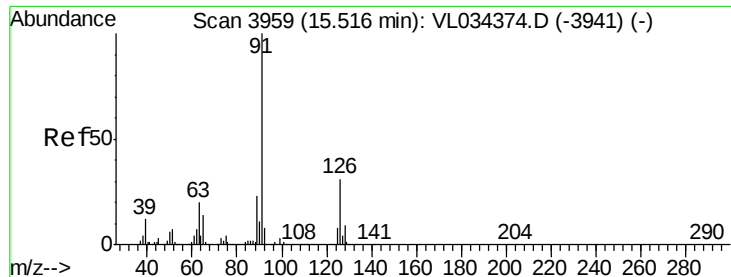
Tgt Ion: 119 Resp: 3206235  
Ion Ratio Lower Upper  
119 100  
134 25.2 20.6 31.0  
91 33.1 26.3 39.5



#70  
n-Butylbenzene  
Concen: 8.440 ppbv  
RT: 18.62 min Scan# 4924  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion: 91 Resp: 3489163  
Ion Ratio Lower Upper  
91 100  
92 53.8 43.8 65.6  
134 21.9 17.9 26.9





#71

2-Chlorotoluene

Concen: 8.384 ppbv

RT: 15.52 min Scan# 3959

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

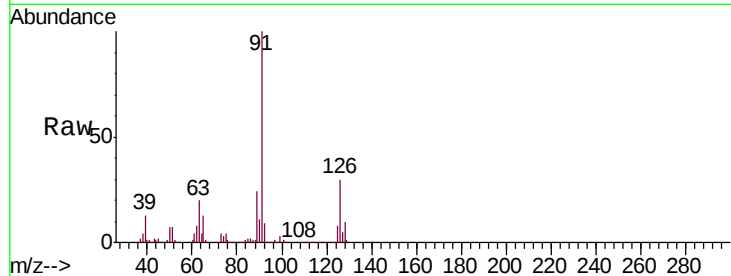
VSTDCCC010EC

Tgt Ion: 91 Resp: 2462874

Ion Ratio Lower Upper

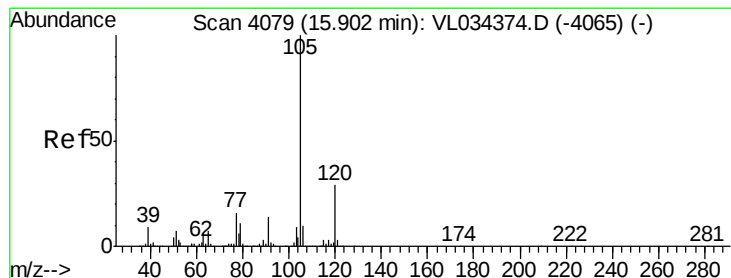
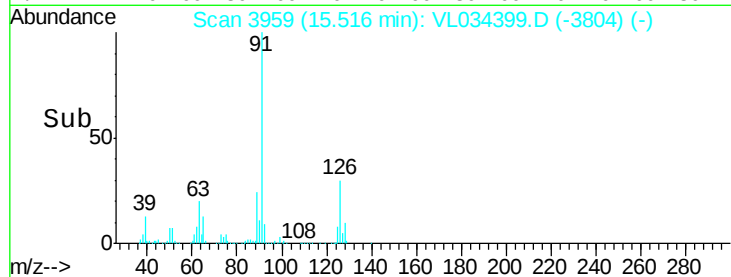
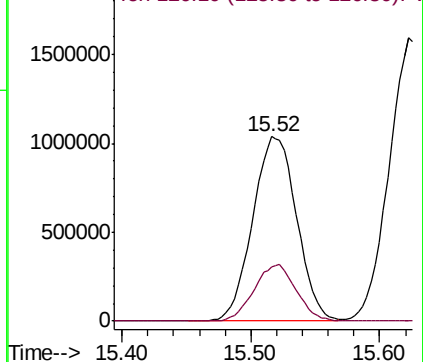
91 100

126 29.4 11.8 47.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.616 ppbv

RT: 15.90 min Scan# 4079

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Tgt Ion: 105 Resp: 2773320

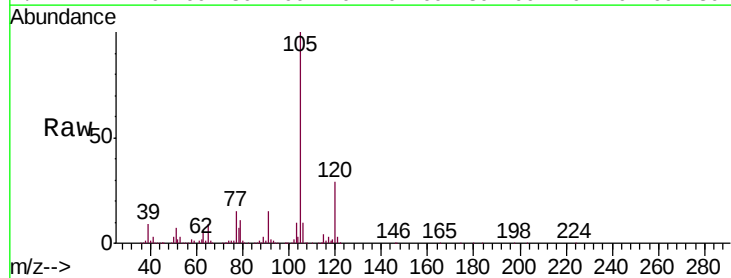
Ion Ratio Lower Upper

105 100

120 28.5 23.5 35.3

91 14.5 11.4 17.0

77 15.7 12.6 19.0

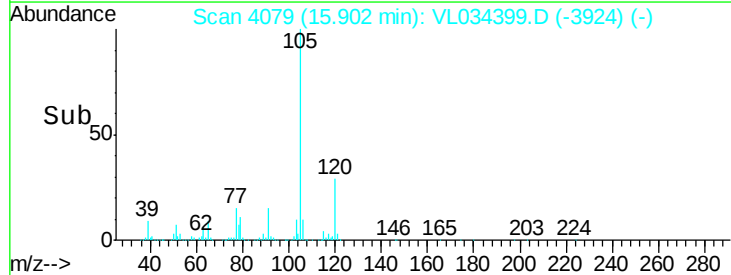
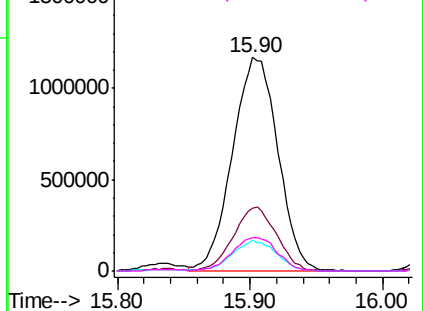


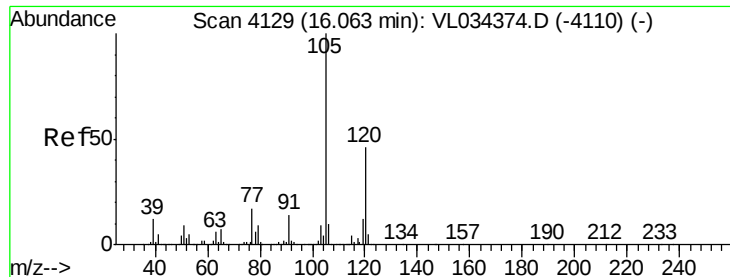
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.347 ppbv

RT: 16.06 min Scan# 4128

Delta R.T. -0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Instrument :

MSVOA\_L

ClientSampleId :

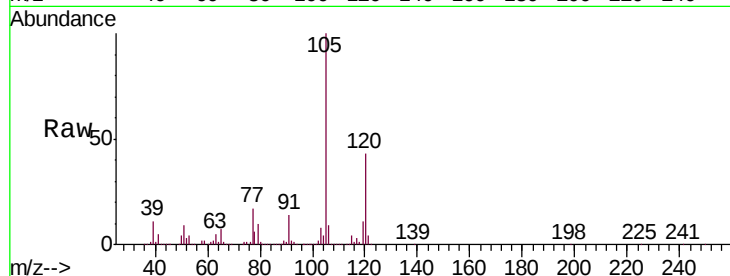
VSTDCCC010EC

Tgt Ion:105 Resp: 2629865

Ion Ratio Lower Upper

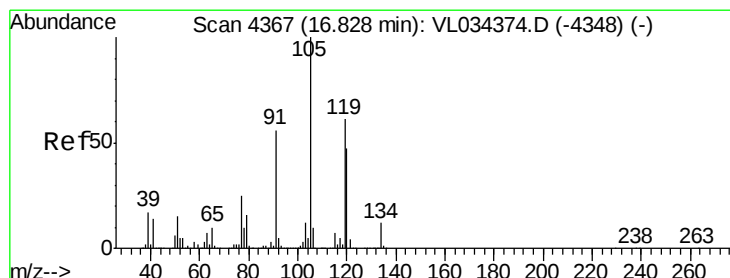
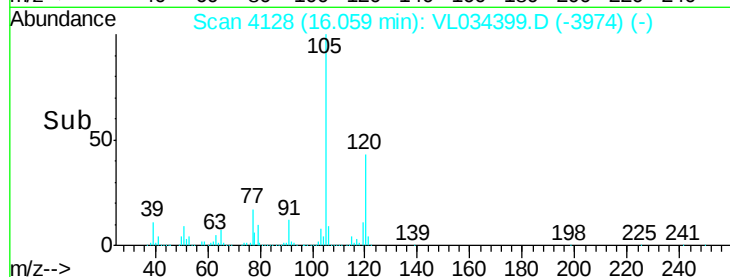
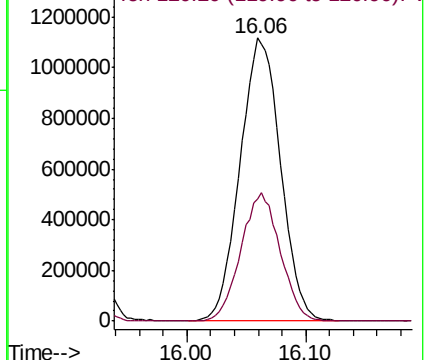
105 100

120 43.3 37.1 55.7



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: 8.194 ppbv

RT: 16.83 min Scan# 4368

Delta R.T. 0.00 min

Lab File: VL034399.D

Acq: 20 Nov 2019 4:06

Tgt Ion:105 Resp: 2742404

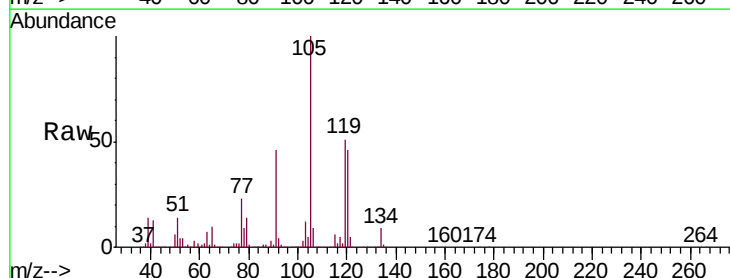
Ion Ratio Lower Upper

105 100

120 45.7 37.4 56.0

91 45.4 46.3 69.5#

77 23.1 20.6 30.8

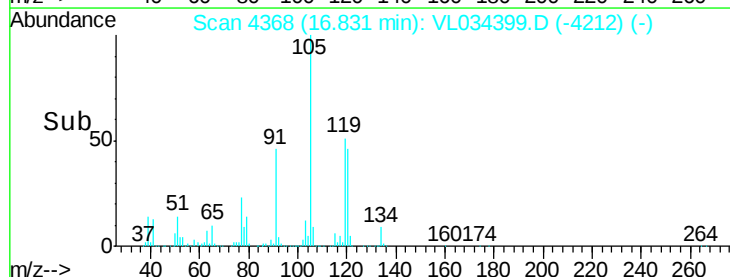
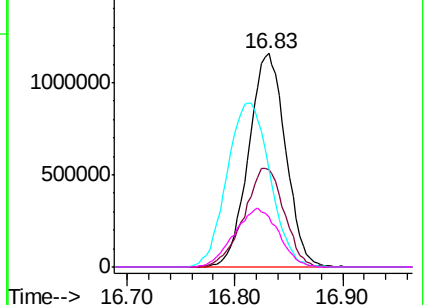


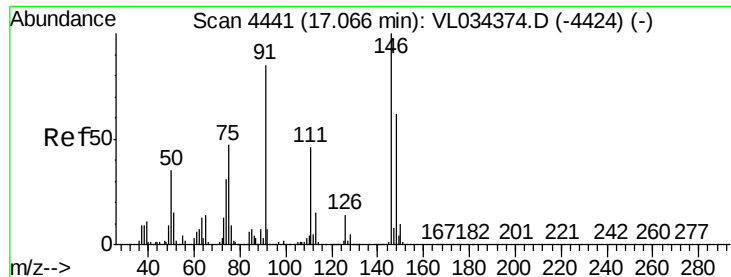
Abundance Ion 105.10 (104.80 to 105.80): V

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

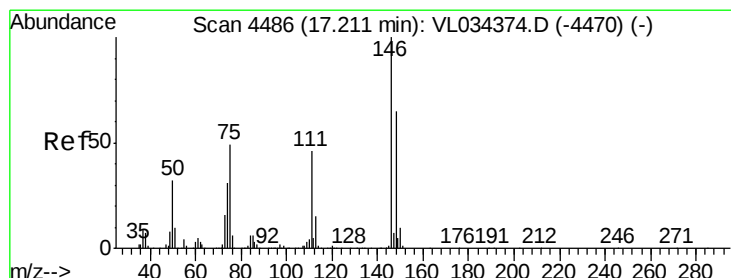
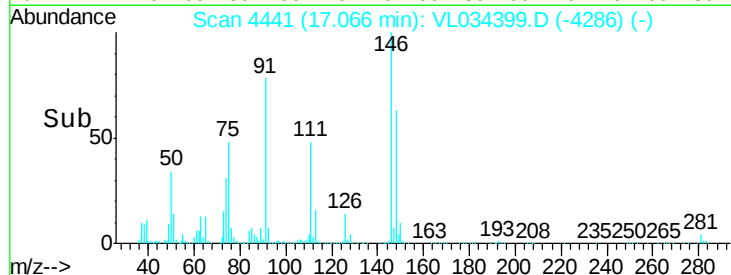
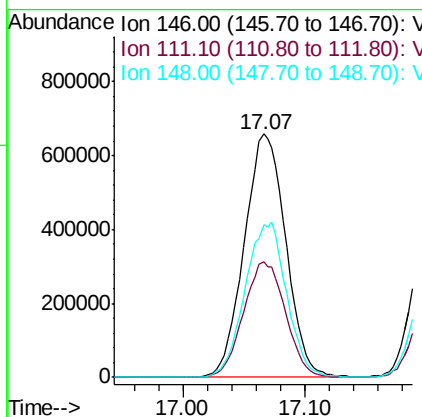
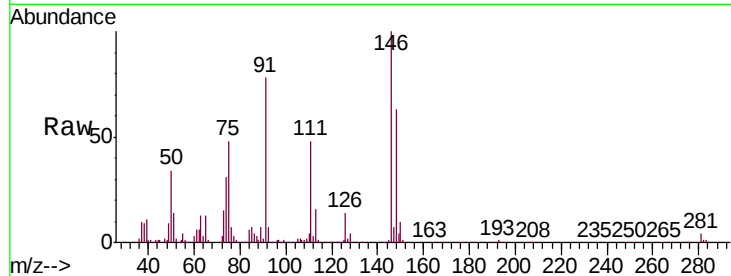




#75  
 1,3-Dichlorobenzene  
 Concen: 8.031 ppbv  
 RT: 17.07 min Scan# 4441  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

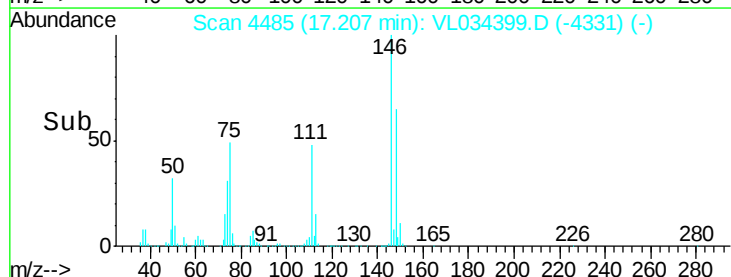
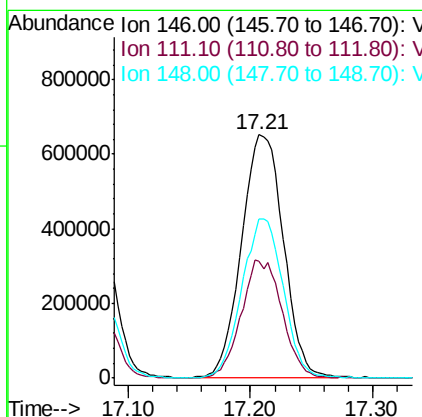
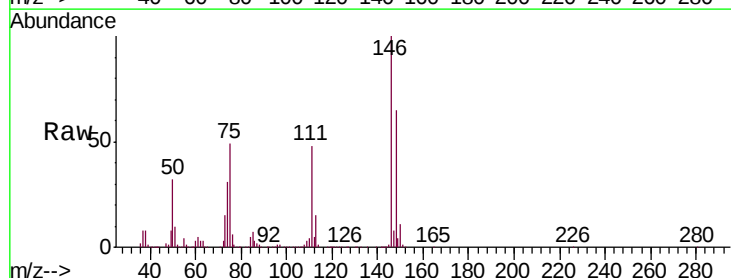
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

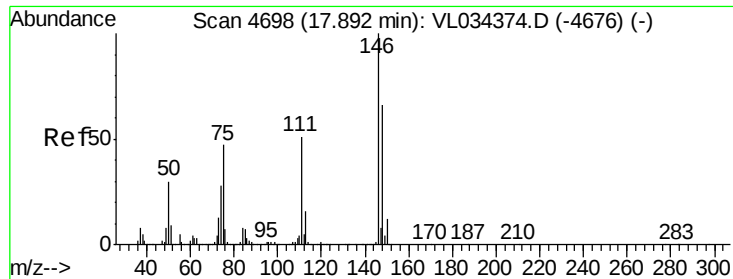
Tgt Ion:146 Resp: 1544949  
 Ion Ratio Lower Upper  
 146 100  
 111 48.2 24.4 73.4  
 148 64.0 32.4 97.0



#76  
 1,4-Dichlorobenzene  
 Concen: 8.256 ppbv  
 RT: 17.21 min Scan# 4485  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion:146 Resp: 1542212  
 Ion Ratio Lower Upper  
 146 100  
 111 47.8 24.1 72.3  
 148 65.3 32.9 98.6

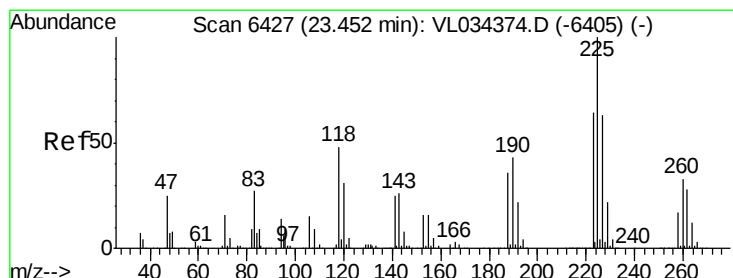
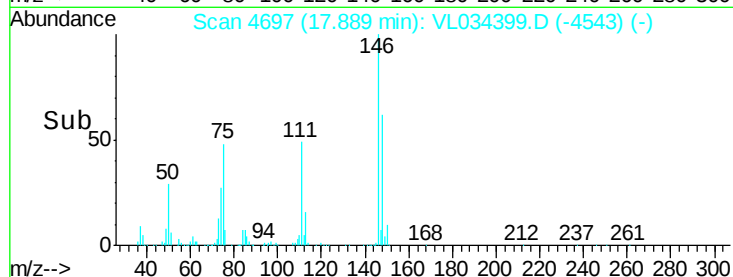
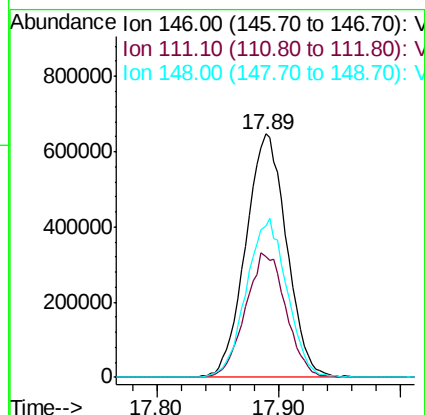
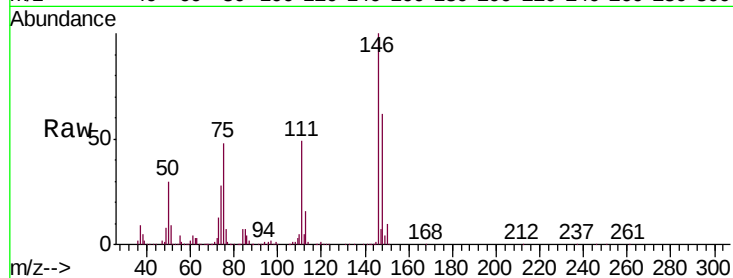




#77  
 1,2-Dichlorobenzene  
 Concen: 8.066 ppbv  
 RT: 17.89 min Scan# 4697  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

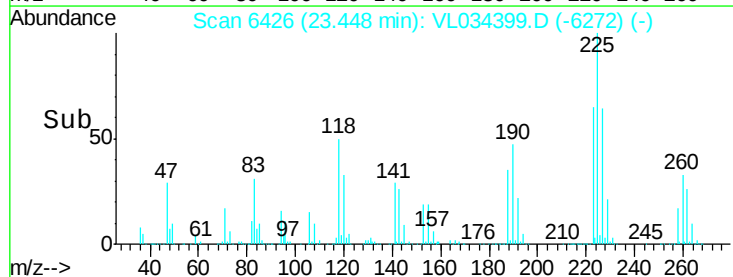
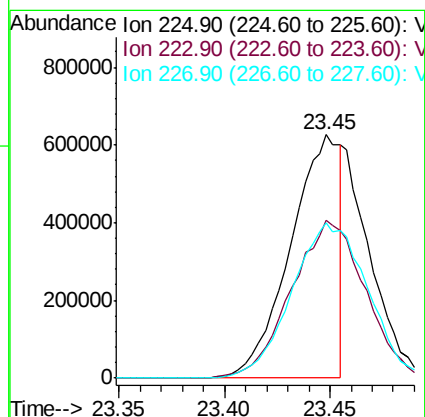
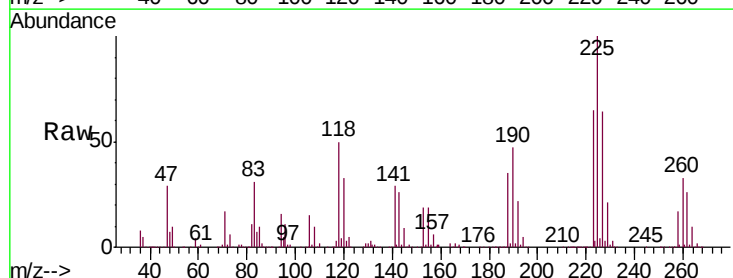
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

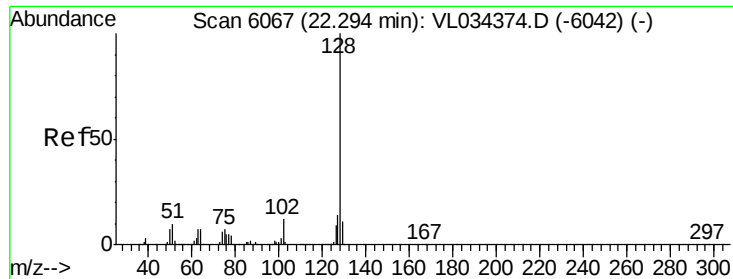
Tgt Ion:146 Resp: 1498737  
 Ion Ratio Lower Upper  
 146 100  
 111 50.5 25.0 75.0  
 148 64.7 32.7 98.1



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 6.429 ppbv  
 RT: 23.45 min Scan# 6426  
 Delta R.T. -0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Tgt Ion:225 Resp: 1026416  
 Ion Ratio Lower Upper  
 225 100  
 223 96.1 50.2 75.2#  
 227 97.3 51.5 77.3#

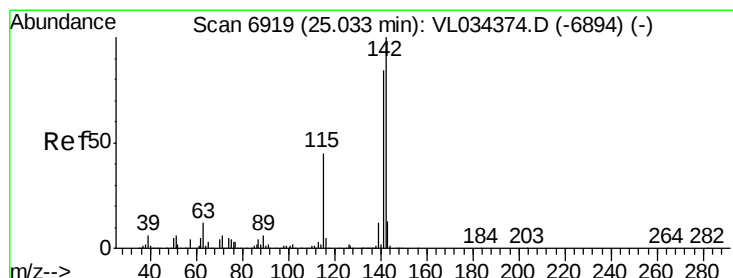
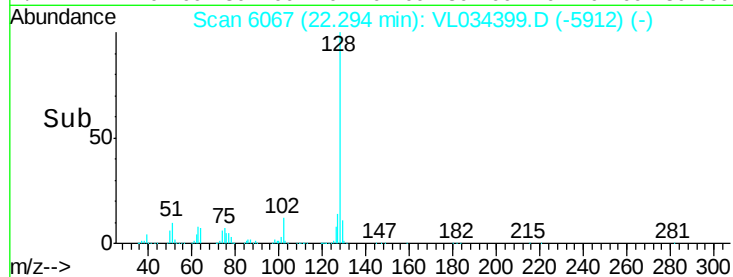
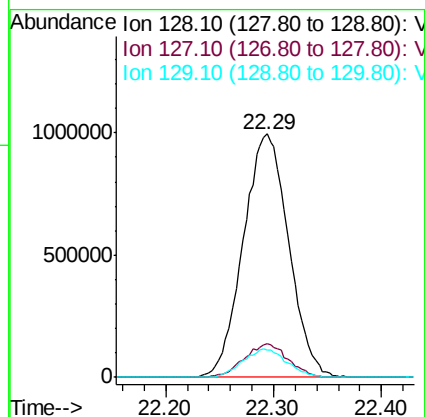
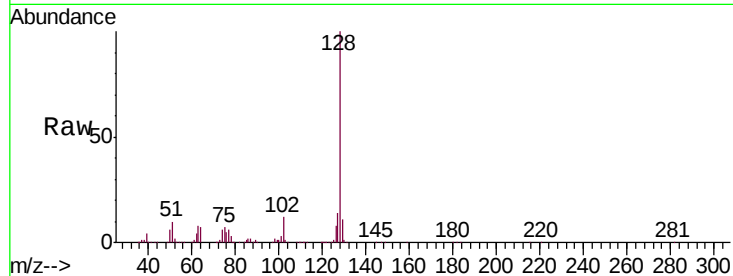




#79  
Naphthalene  
Concen: 9.997 ppbv  
RT: 22.29 min Scan# 6067  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

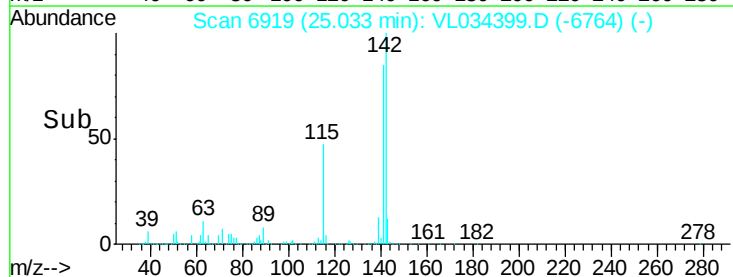
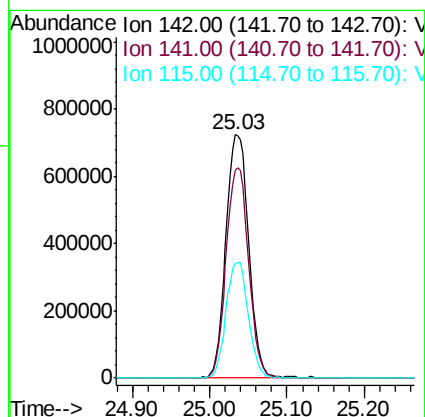
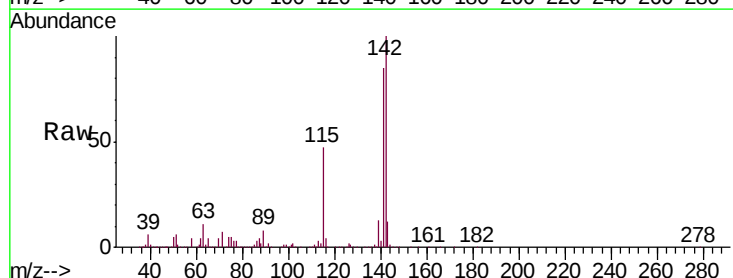
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010EC

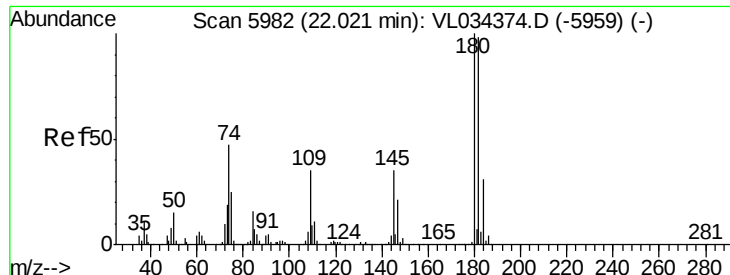
Tgt Ion:128 Resp: 2900500  
Ion Ratio Lower Upper  
128 100  
127 13.6 11.0 16.6  
129 11.4 8.9 13.3



#80  
Naphthalene, 2-methyl-  
Concen: 11.308 ppbv  
RT: 25.03 min Scan# 6919  
Delta R.T. -0.00 min  
Lab File: VL034399.D  
Acq: 20 Nov 2019 4:06

Tgt Ion:142 Resp: 1481455  
Ion Ratio Lower Upper  
142 100  
141 85.1 67.1 100.7  
115 46.8 36.6 54.8

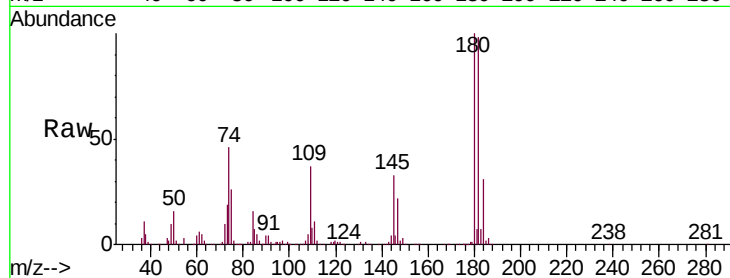




#81  
 1,2,4-Trichlorobenzene  
 Concen: 5.116 ppbv  
 RT: 22.02 min Scan# 5983  
 Delta R.T. 0.00 min  
 Lab File: VL034399.D  
 Acq: 20 Nov 2019 4:06

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010EC

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 180     | 100   |       |        |
| 182     | 180.7 | 76.8  | 115.2# |
| 184     | 58.3  | 24.9  | 37.3#  |



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

