

Data File : VL034127.D  
Acq On : 5 Sep 2019 7:05  
Operator : SY/AP  
Sample : VSTDICV010  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL090519

Quant Time: Sep 05 10:26:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL090519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 05 10:21:45 2019  
QLast Update : Thu Sep 05 10:21:45 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.71  | 49   | 1102166  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.24  | 114  | 2090110  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.18 | 117  | 2637222  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.51  | 95    | 1776429  | 8.24     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 82.40% |

| Target Compounds               |      |     |         |       |        | Qvalue |
|--------------------------------|------|-----|---------|-------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85  | 1677736 | 9.229 | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 2.98 | 51  | 1179344 | 9.599 | ppbv   | 100    |
| 4) Chloromethane               | 3.13 | 50  | 671394  | 8.741 | ppbv   | 97     |
| 5) Vinyl Chloride              | 3.26 | 62  | 607540  | 8.684 | ppbv   | 97     |
| 6) Bromomethane                | 3.47 | 94  | 325088  | 9.415 | ppbv   | 99     |
| 7) Chloroethane                | 3.56 | 64  | 222784  | 9.346 | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85  | 1292451 | 8.833 | ppbv   | 99     |
| 9) Propene                     | 3.00 | 41  | 626378  | 9.112 | ppbv   | 98     |
| 10) Heptane                    | 8.19 | 43  | 1649725 | 9.248 | ppbv   | 98     |
| 11) Trichlorofluoromethane     | 3.96 | 101 | 1308245 | 8.824 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.50 | 101 | 916691  | 9.242 | ppbv   | 100    |
| 13) Ethanol                    | 3.61 | 45  | 121225  | 9.002 | ppbv   | 98     |
| 14) Bromoethene                | 3.75 | 108 | 395331  | 9.206 | ppbv   | 99     |
| 15) Acetone                    | 3.86 | 43  | 1114112 | 8.387 | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.33 | 39  | 616331  | 9.162 | ppbv   | 99     |
| 17) tert-Butyl alcohol         | 4.31 | 59  | 820239  | 8.506 | ppbv   | 100    |
| 18) 1,1-Dichloroethene         | 4.31 | 96  | 418855  | 9.243 | ppbv   | 96     |
| 19) Isopropyl Alcohol          | 3.98 | 45  | 751920  | 8.387 | ppbv # | 11     |
| 20) Methylene Chloride         | 4.36 | 84  | 369726  | 8.418 | ppbv   | 97     |
| 21) Allyl Chloride             | 4.43 | 41  | 810777  | 9.258 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene   | 4.91 | 96  | 401478  | 8.851 | ppbv   | 94     |
| 23) Vinyl Acetate              | 5.11 | 43  | 2127005 | 9.438 | ppbv   | 99     |
| 24) 1,1-Dichloroethane         | 5.04 | 63  | 1339173 | 8.953 | ppbv   | 100    |
| 25) Ethyl Acetate              | 5.71 | 43  | 2471237 | 8.475 | ppbv   | 100    |
| 26) Hexane                     | 5.73 | 57  | 1089510 | 8.404 | ppbv   | 97     |
| 27) Carbon Disulfide           | 4.57 | 76  | 1100352 | 9.405 | ppbv   | 100    |
| 28) Methyl tert-Butyl Ether    | 5.06 | 73  | 1749621 | 9.211 | ppbv   | 99     |
| 29) Chloroform                 | 5.80 | 83  | 1584158 | 9.060 | ppbv   | 99     |
| 30) Cyclohexane                | 7.19 | 84  | 891131  | 9.508 | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene     | 5.59 | 61  | 1152794 | 9.286 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane      | 6.56 | 97  | 1501413 | 9.089 | ppbv   | 99     |
| 34) 2-Butanone                 | 5.28 | 43  | 1786913 | 8.893 | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.08 | 117 | 1433566 | 8.797 | ppbv   | 98     |
| 36) Benzene                    | 6.95 | 78  | 2138779 | 8.952 | ppbv   | 97     |
| 37) 1,2-Dichloroethane         | 6.36 | 62  | 1314713 | 8.971 | ppbv   | 100    |
| 38) Trichloroethene            | 7.90 | 130 | 683853  | 7.671 | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.68 | 63  | 925948  | 9.057 | ppbv   | 96     |
| 40) 1,4-Dioxane                | 7.89 | 88  | 291536  | 7.759 | ppbv # | 95     |
| 41) Tetrahydrofuran            | 6.09 | 42  | 1110621 | 9.219 | ppbv   | 99     |
| 42) Bromodichloromethane       | 7.86 | 83  | 1736412 | 9.091 | ppbv   | 99     |
| 43) Methyl Methacrylate        | 8.08 | 69  | 924194  | 9.390 | ppbv   | 98     |

Data File : VL034127.D  
Acq On : 5 Sep 2019 7:05  
Operator : SY/AP  
Sample : VSTDICV010  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL090519

Quant Time: Sep 05 10:26:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL090519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 05 10:21:45 2019  
QLast Update : Thu Sep 05 10:21:45 2019  
Response via : Initial Calibration

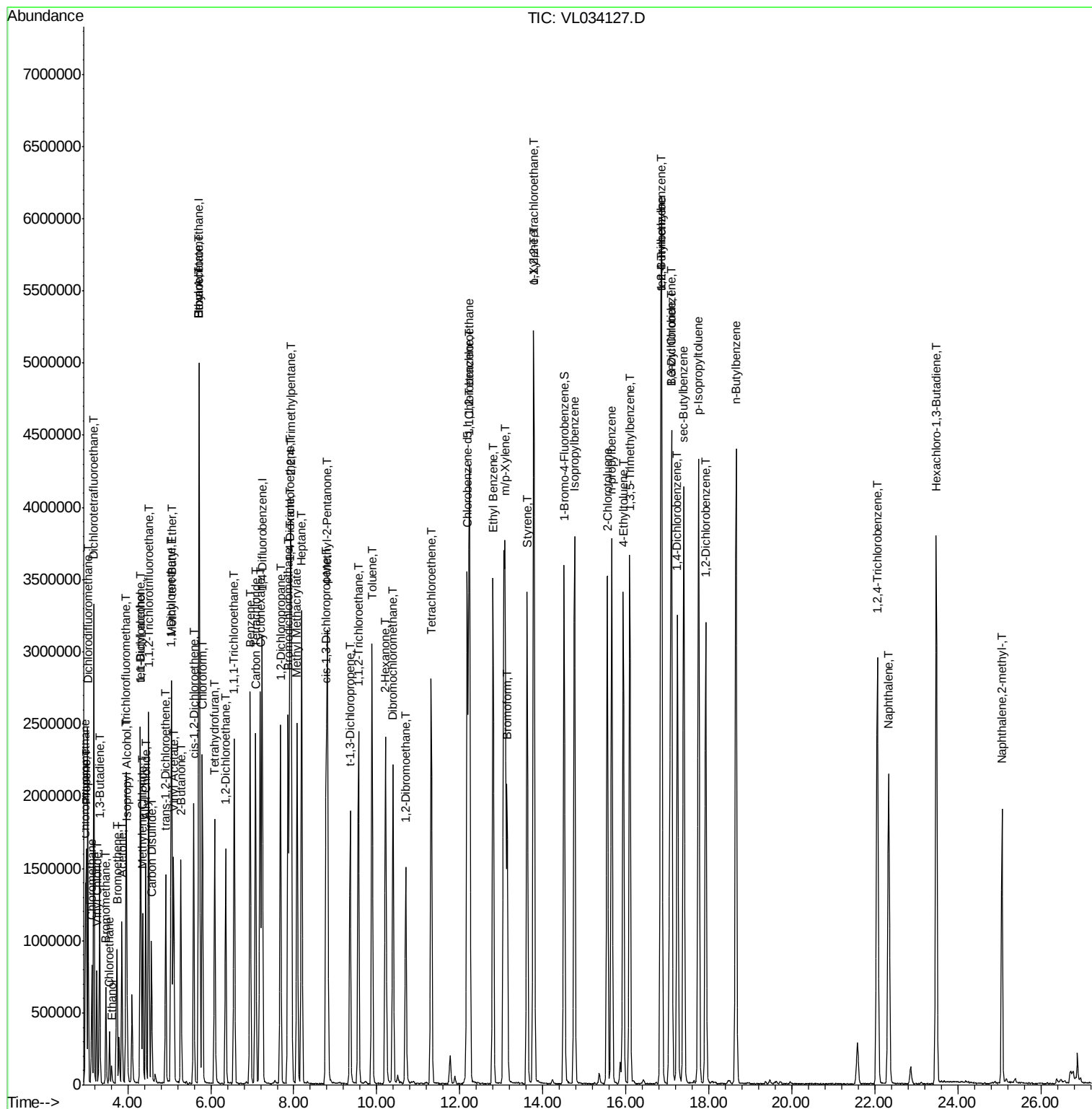
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.93  | 57   | 3767139  | 8.553 | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.35  | 75   | 1101320  | 9.521 | ppbv   | 97       |
| 46) cis-1,3-Dichloropropene   | 8.78  | 75   | 1299022  | 9.230 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.55  | 97   | 498968   | 5.357 | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.39 | 129  | 1330658  | 9.574 | ppbv   | 97       |
| 49) Bromoform                 | 13.14 | 173  | 1151541  | 9.450 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 8.81  | 43   | 2654818  | 8.658 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.21 | 43   | 2280979  | 8.611 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.31 | 164  | 680766   | 8.081 | ppbv   | 98       |
| 53) Toluene                   | 9.89  | 91   | 2392128  | 9.053 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.70 | 107  | 1278816  | 9.216 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.22 | 131  | 876496   | 7.749 | ppbv # | 61       |
| 57) Chlorobenzene             | 12.24 | 112  | 1640849  | 7.233 | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.80 | 91   | 3215766  | 7.436 | ppbv   | 98       |
| 59) m/p-Xylene                | 13.09 | 91   | 2204997  | 6.251 | ppbv # | 8        |
| 60) o-Xylene                  | 13.79 | 91   | 2542226  | 7.235 | ppbv   | 100      |
| 61) Styrene                   | 13.62 | 104  | 1937963  | 7.374 | ppbv   | 99       |
| 62) Isopropylbenzene          | 14.76 | 105  | 3335027  | 7.295 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.77 | 83   | 1868090  | 6.524 | ppbv   | 99       |
| 64) n-propylbenzene           | 15.66 | 120  | 890541   | 7.776 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 16.85 | 119  | 2828223  | 7.168 | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.10 | 91   | 1209294  | 8.313 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 17.40 | 105  | 4118908  | 7.260 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 17.76 | 119  | 3344608  | 7.368 | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.65 | 91   | 3798606  | 7.354 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 15.55 | 91   | 2780724  | 7.446 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.94 | 105  | 2958988  | 7.464 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.09 | 105  | 2853139  | 7.405 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.87 | 105  | 2778842  | 7.004 | ppbv   | 93       |
| 75) 1,3-Dichlorobenzene       | 17.10 | 146  | 1494902  | 7.111 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 17.24 | 146  | 1580993  | 7.176 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.92 | 146  | 1561001  | 7.253 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 23.48 | 225  | 1010981  | 6.886 | ppbv   | 98       |
| 79) Naphthalene               | 22.33 | 128  | 2719206  | 7.581 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 25.06 | 142  | 1035925  | 8.321 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.05 | 180  | 1374550  | 7.043 | ppbv   | 99       |

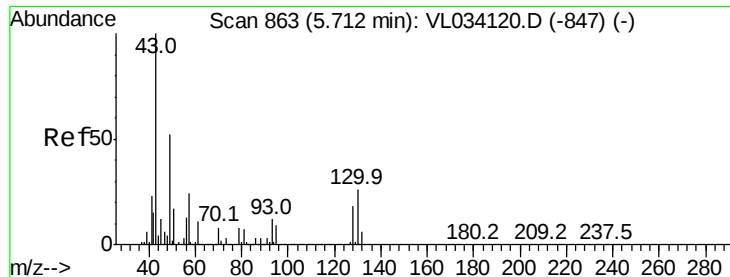
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VL034127.D  
Acq On : 5 Sep 2019 7:05  
Operator : SY/AP  
Sample : VSTDICV010  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL090519

Quant Time: Sep 05 10:26:29 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL090519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Sep 05 10:21:45 2019  
QLast Update : Thu Sep 05 10:21:45 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

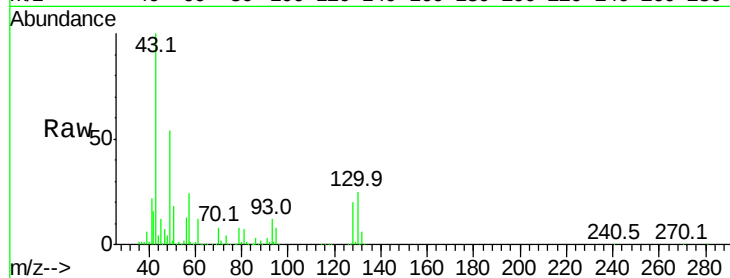
Tgt Ion: 49 Resp: 1102166

Ion Ratio Lower Upper

49 100

128 37.0 18.4 55.0

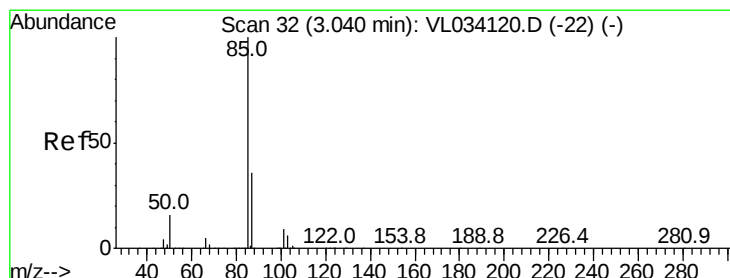
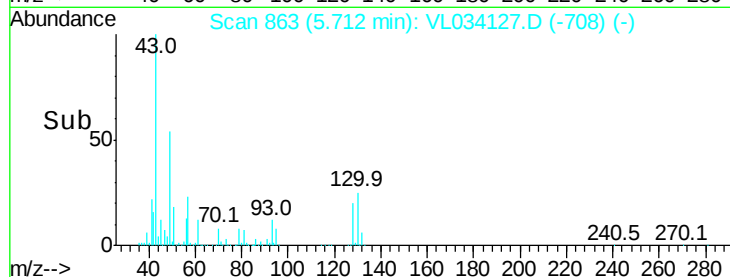
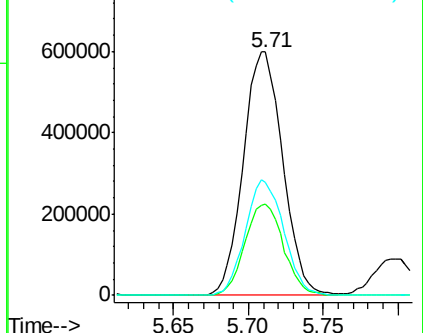
130 46.6 23.5 70.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 9.229 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL034127.D

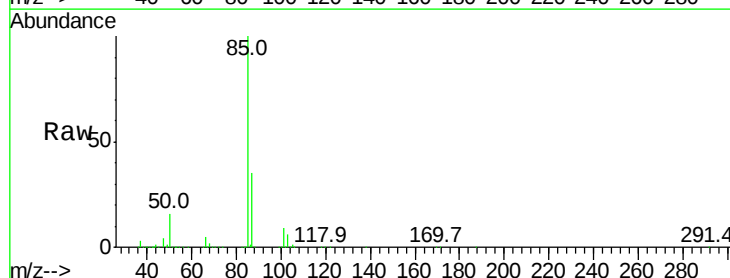
Acq: 5 Sep 2019 7:05

Tgt Ion: 85 Resp: 1677736

Ion Ratio Lower Upper

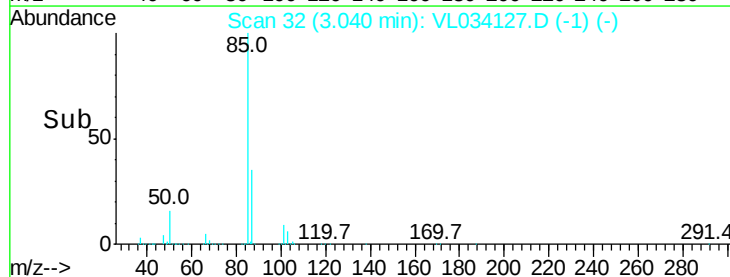
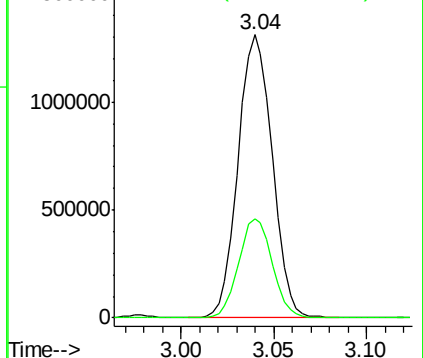
85 100

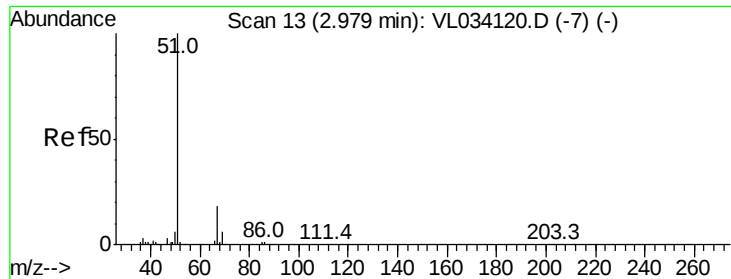
87 34.8 28.6 43.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

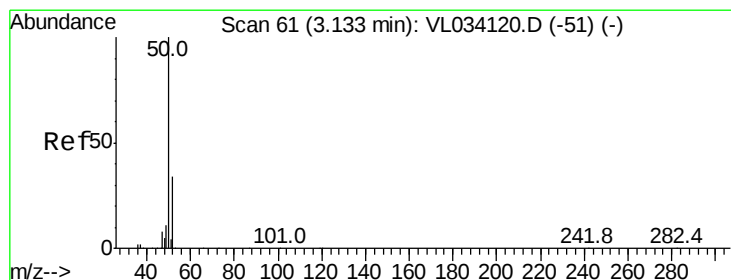
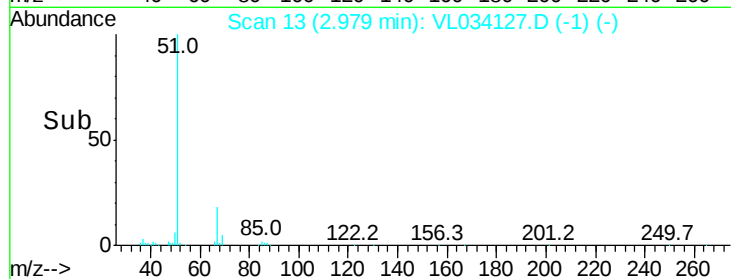
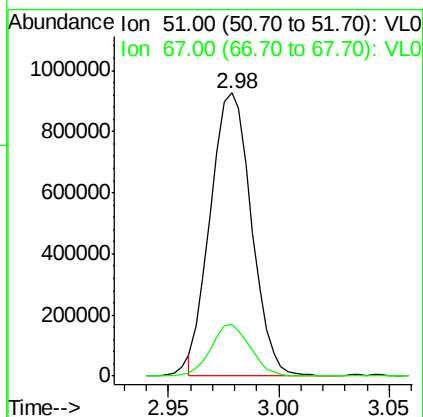
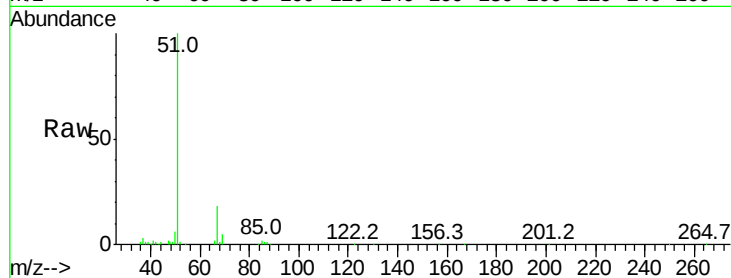




#3  
 Chlorodifluoromethane  
 Concen: 9.599 ppbv  
 RT: 2.98 min Scan# 13  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

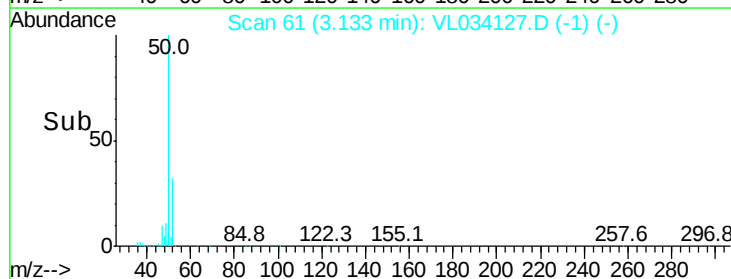
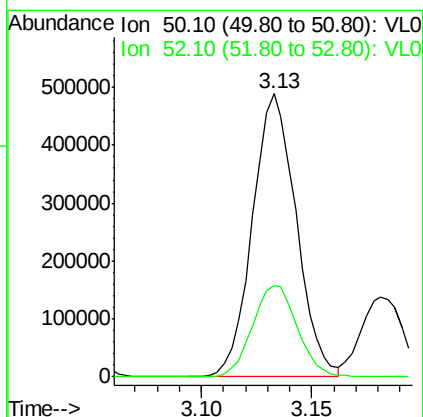
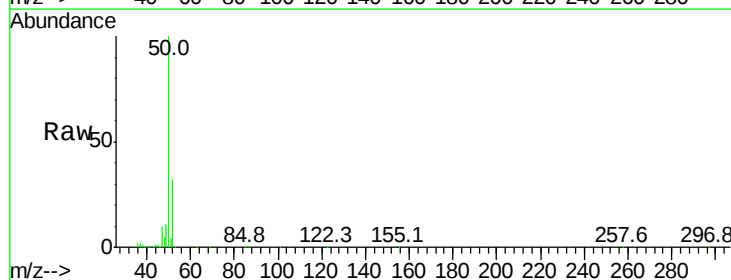
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL090519

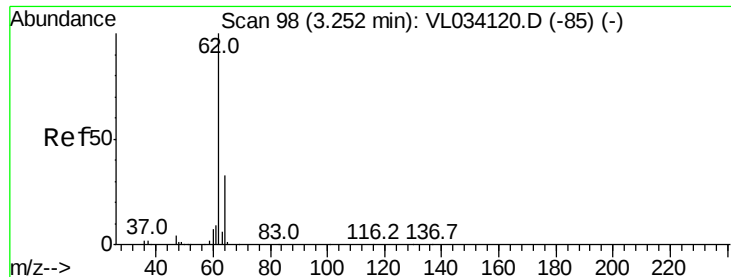
Tgt Ion: 51 Resp: 1179344  
 Ion Ratio Lower Upper  
 51 100  
 67 17.7 14.2 21.4



#4  
 Chloromethane  
 Concen: 8.741 ppbv  
 RT: 3.13 min Scan# 61  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

Tgt Ion: 50 Resp: 671394  
 Ion Ratio Lower Upper  
 50 100  
 52 32.4 27.4 41.2





#5

Vinyl Chloride

Concen: 8.684 ppbv

RT: 3.26 min Scan# 99

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

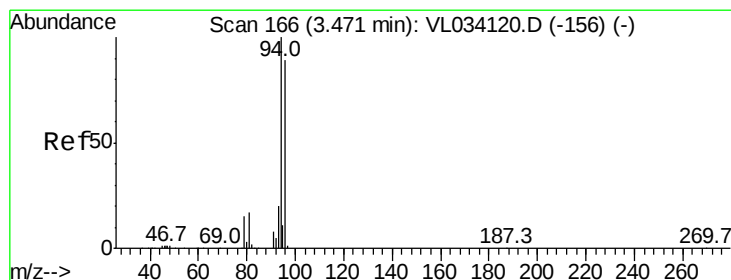
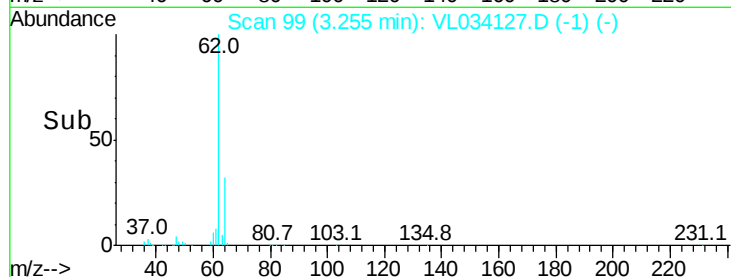
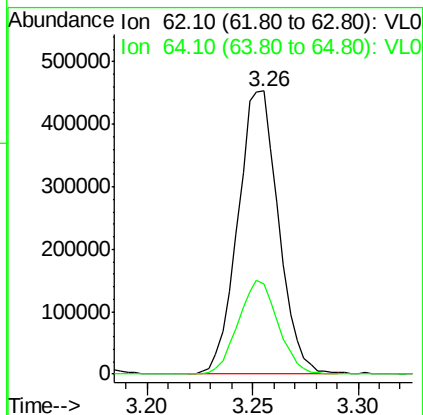
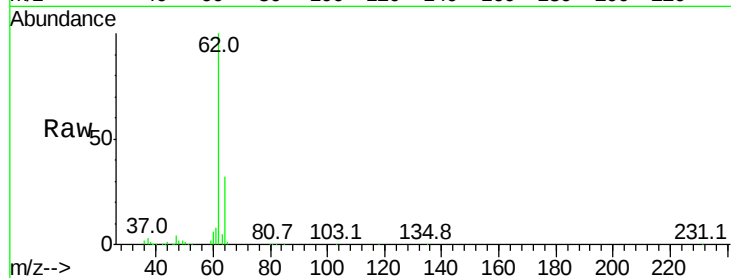
ICVVL090519

Tgt Ion: 62 Resp: 607540

Ion Ratio Lower Upper

62 100

64 31.7 26.6 39.8



#6

Bromomethane

Concen: 9.415 ppbv

RT: 3.47 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL034127.D

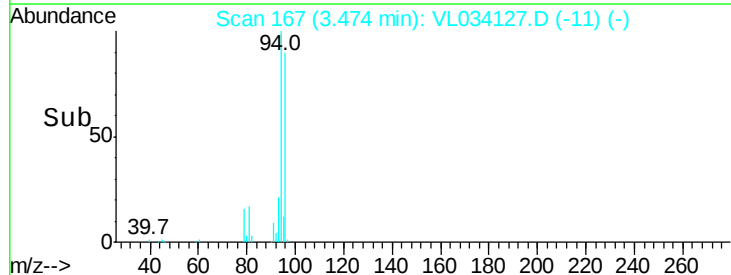
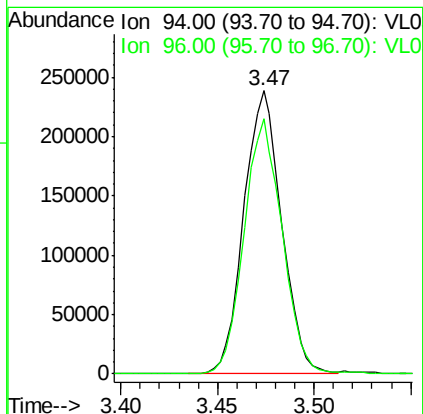
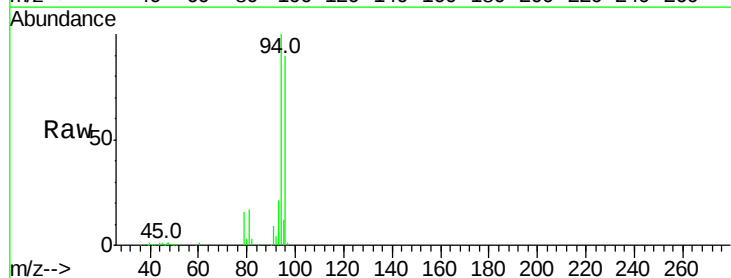
Acq: 5 Sep 2019 7:05

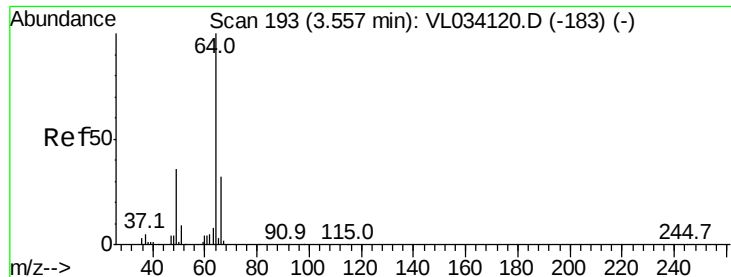
Tgt Ion: 94 Resp: 325088

Ion Ratio Lower Upper

94 100

96 90.1 71.4 107.0





#7

Chloroethane

Concen: 9.346 ppbv

RT: 3.56 min Scan# 194

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

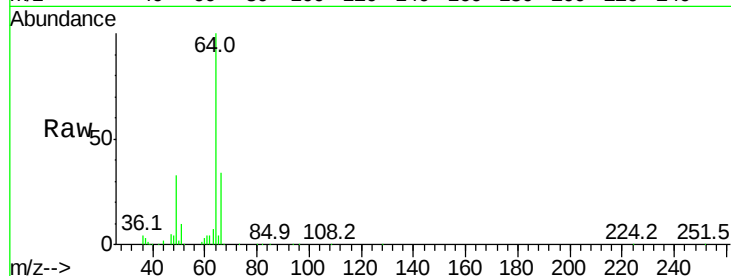
ICVVL090519

Tgt Ion: 64 Resp: 222784

Ion Ratio Lower Upper

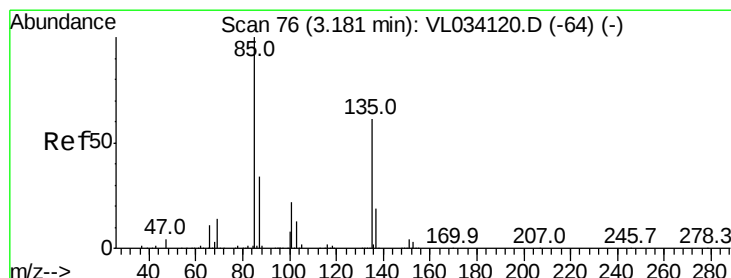
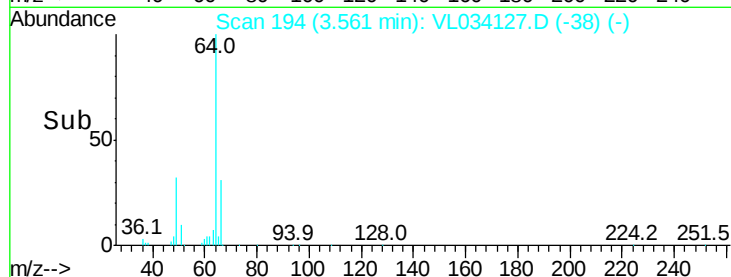
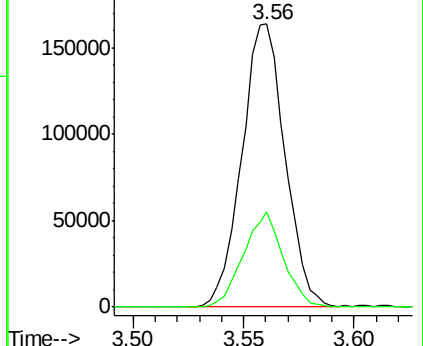
64 100

66 33.5 25.4 38.2



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.833 ppbv

RT: 3.18 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL034127.D

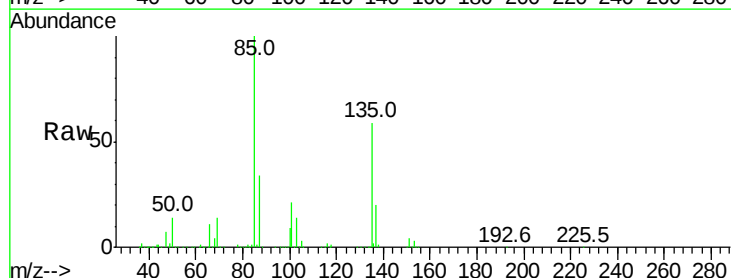
Acq: 5 Sep 2019 7:05

Tgt Ion: 85 Resp: 1292451

Ion Ratio Lower Upper

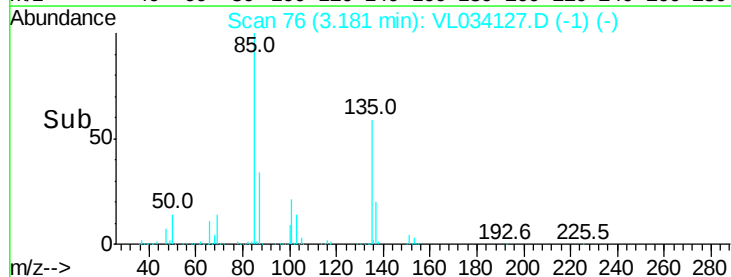
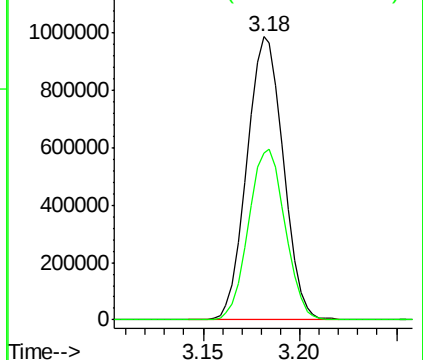
85 100

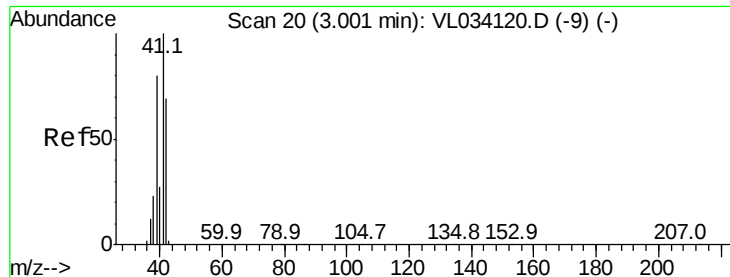
135 60.8 48.0 72.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.112 ppbv

RT: 3.00 min Scan# 20

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

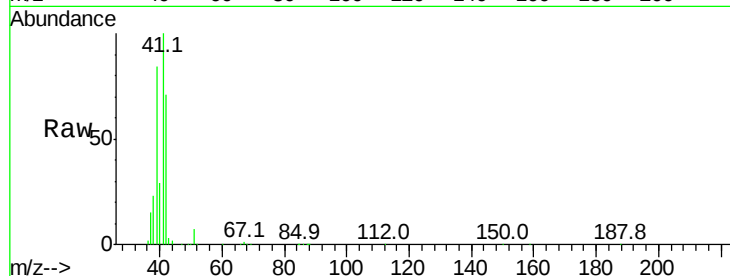
ICVVL090519

Tgt Ion: 41 Resp: 626378

Ion Ratio Lower Upper

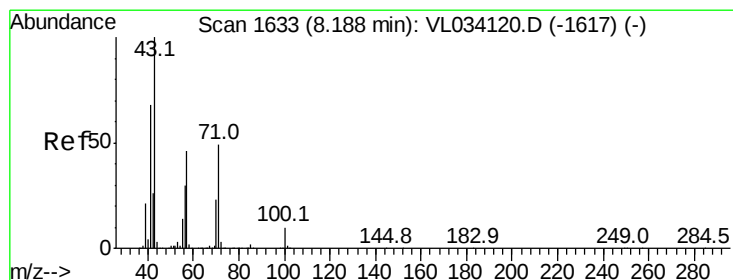
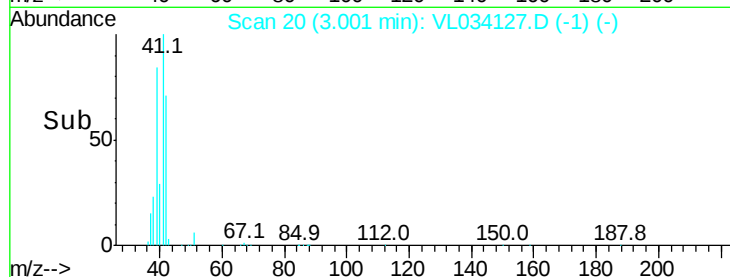
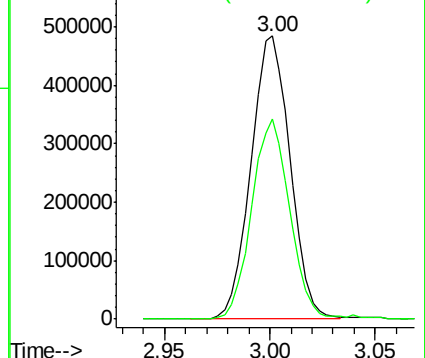
41 100

42 69.4 54.6 81.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.248 ppbv

RT: 8.19 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VL034127.D

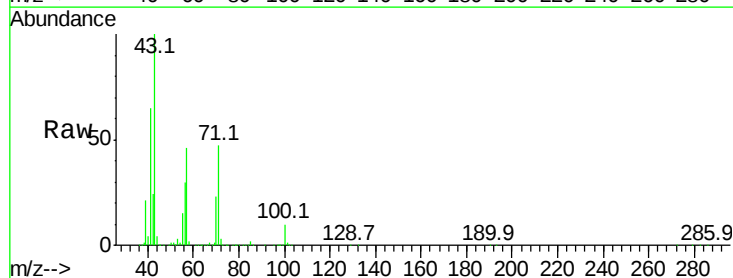
Acq: 5 Sep 2019 7:05

Tgt Ion: 43 Resp: 1649725

Ion Ratio Lower Upper

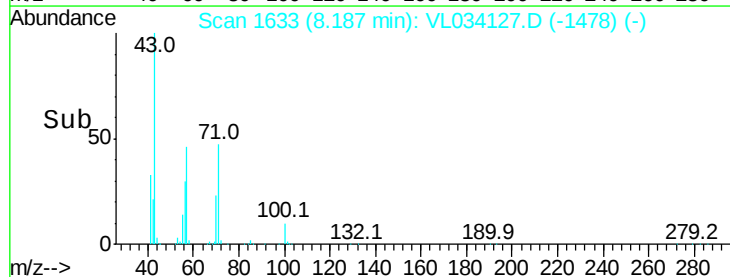
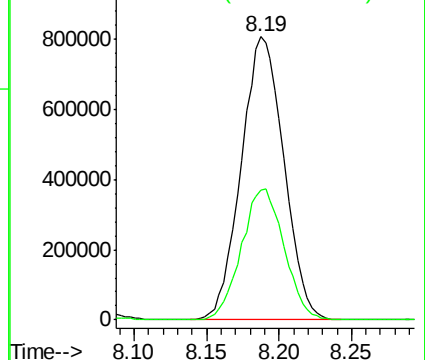
43 100

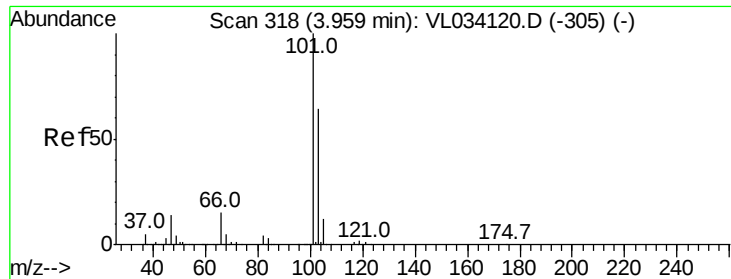
57 46.4 38.1 57.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

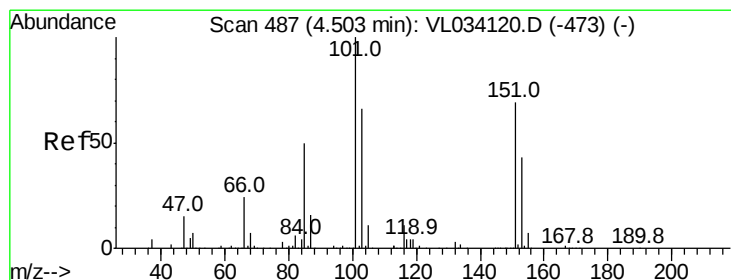
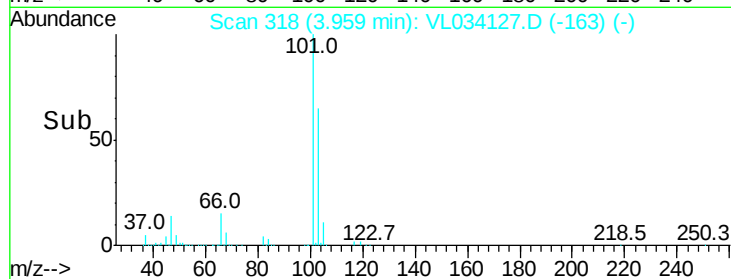
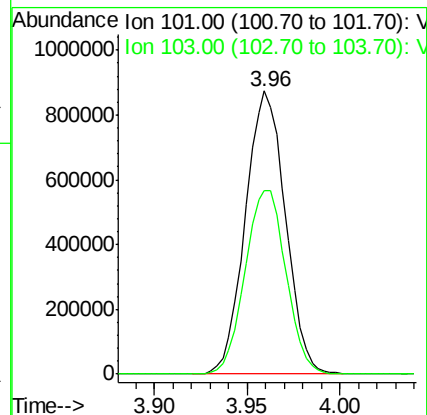
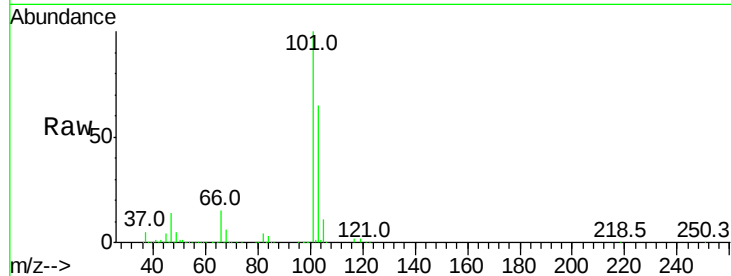




#11  
 Trichlorofluoromethane  
 Concen: 8.824 ppbv  
 RT: 3.96 min Scan# 318  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

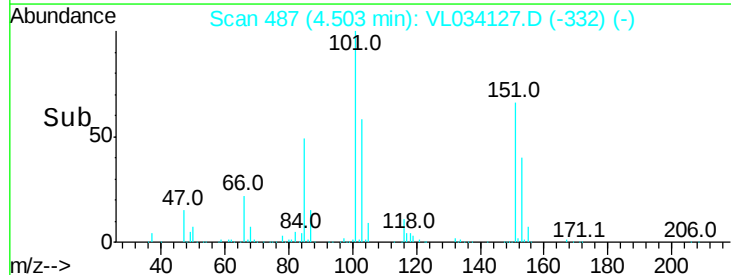
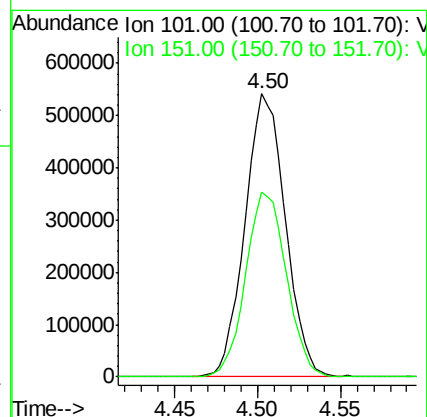
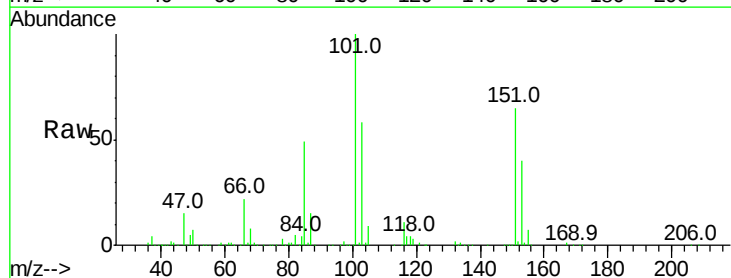
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL090519

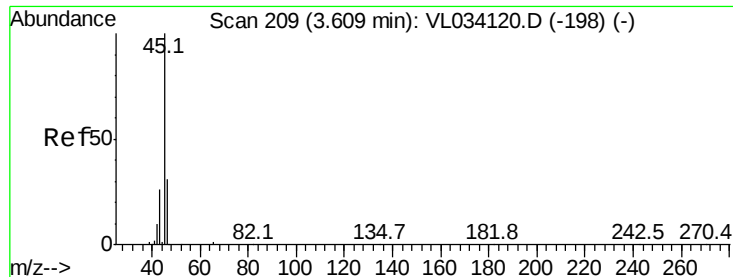
Tgt Ion:101 Resp: 1308245  
 Ion Ratio Lower Upper  
 101 100  
 103 65.0 51.4 77.2



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.242 ppbv  
 RT: 4.50 min Scan# 487  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

Tgt Ion:101 Resp: 916691  
 Ion Ratio Lower Upper  
 101 100  
 151 66.3 53.0 79.6





#13

Ethanol

Concen: 9.002 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

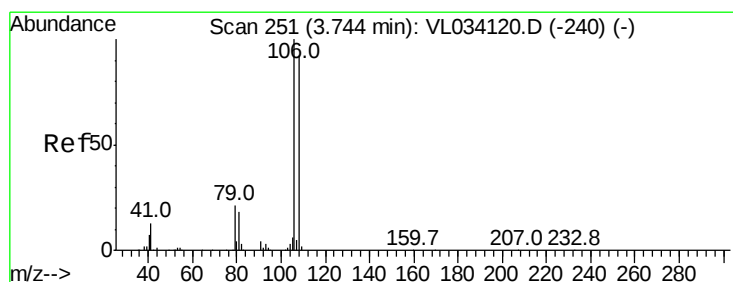
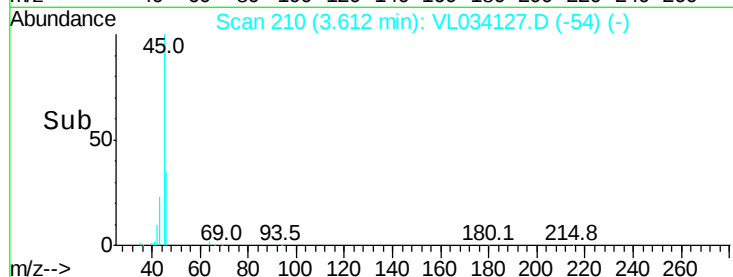
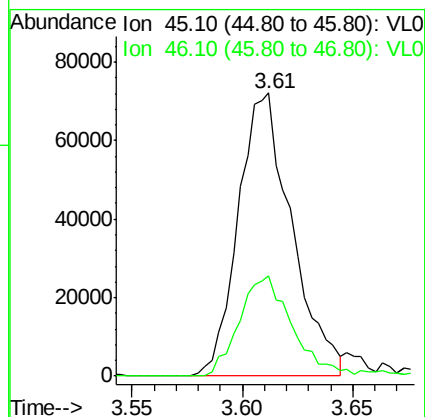
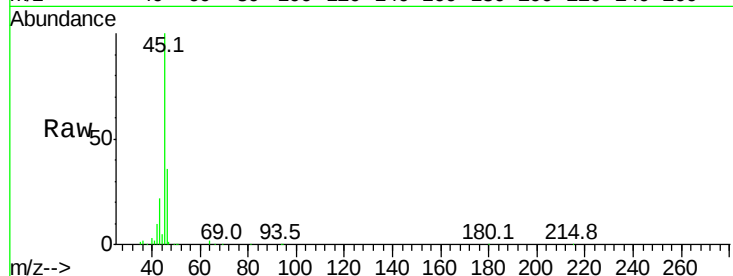
ICVVL090519

Tgt Ion: 45 Resp: 121225

Ion Ratio Lower Upper

45 100

46 36.2 15.0 60.0



#14

Bromoethene

Concen: 9.206 ppbv

RT: 3.75 min Scan# 252

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

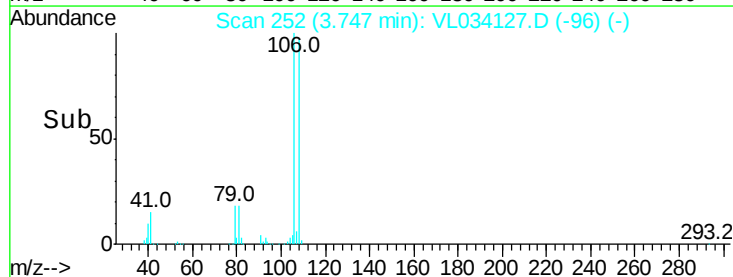
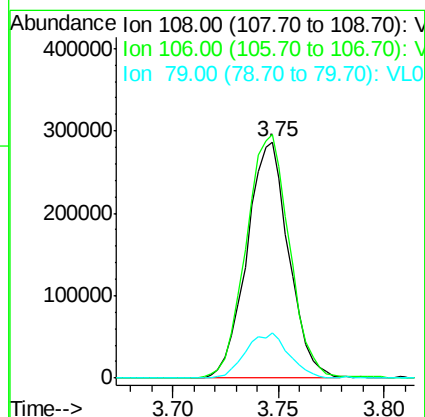
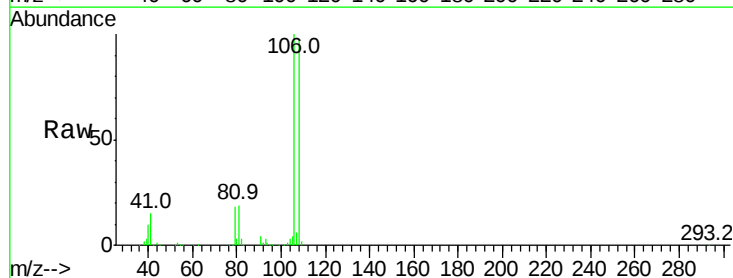
Tgt Ion: 108 Resp: 395331

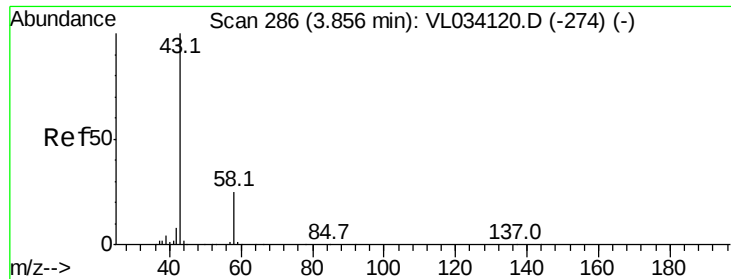
Ion Ratio Lower Upper

108 100

106 107.6 87.2 130.8

79 20.2 16.5 24.7





#15

Acetone

Concen: 8.387 ppbv

RT: 3.86 min Scan# 286

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

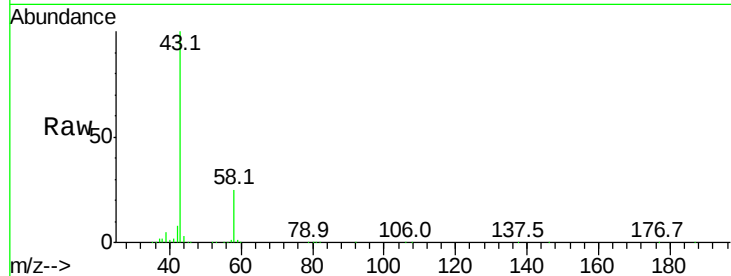
ICVVL090519

Tgt Ion: 43 Resp: 1114112

Ion Ratio Lower Upper

43 100

58 25.0 20.6 30.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.86

800000

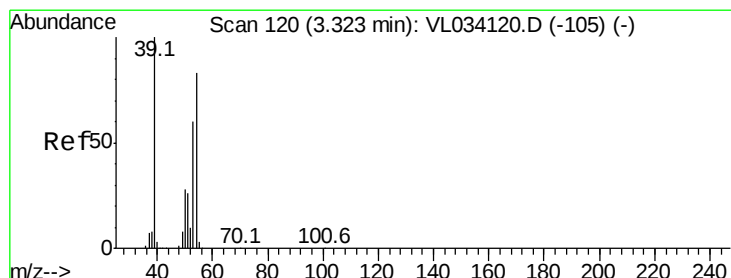
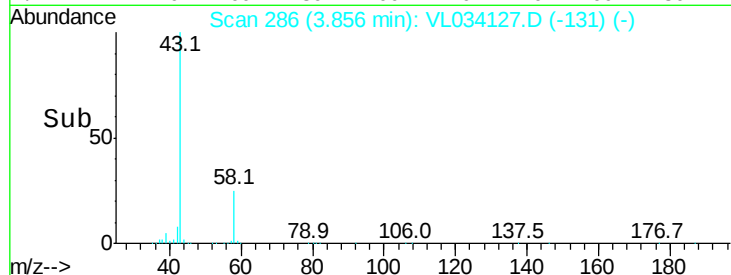
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.162 ppbv

RT: 3.33 min Scan# 121

Delta R.T. 0.00 min

Lab File: VL034127.D

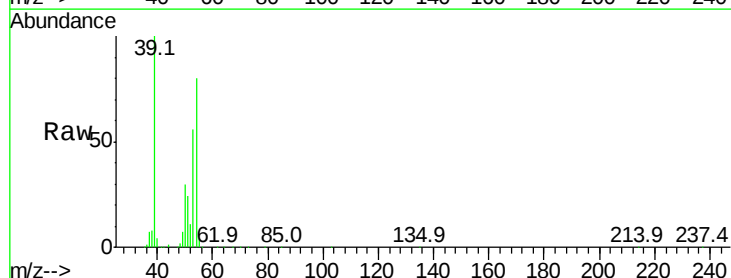
Acq: 5 Sep 2019 7:05

Tgt Ion: 39 Resp: 616331

Ion Ratio Lower Upper

39 100

54 78.4 63.5 95.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.33

500000

400000

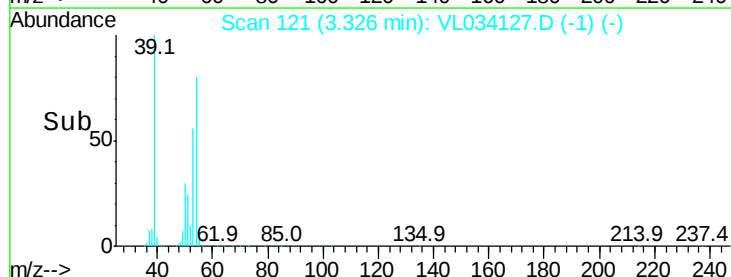
300000

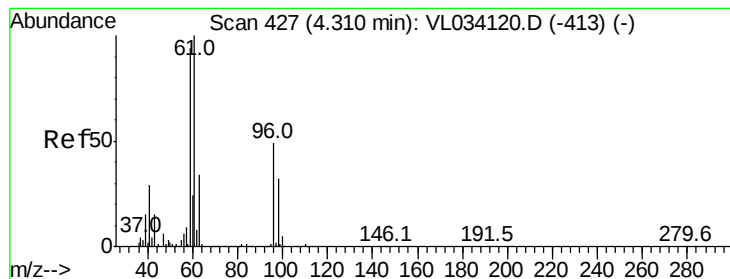
200000

100000

0

Time-->





#17

tert-Butyl alcohol

Concen: 8.506 ppbv

RT: 4.31 min Scan# 428

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

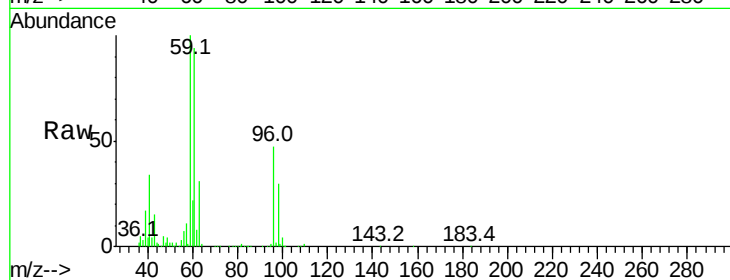
ICVVL090519

Tgt Ion: 59 Resp: 820239

Ion Ratio Lower Upper

59 100

57 10.7 8.6 12.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.31

400000

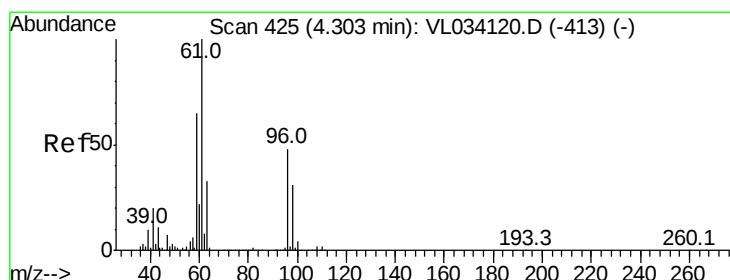
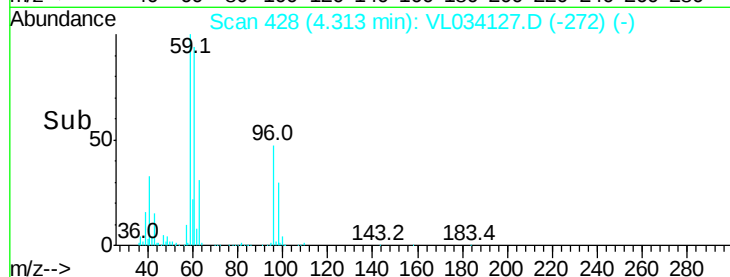
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 9.243 ppbv

RT: 4.31 min Scan# 426

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

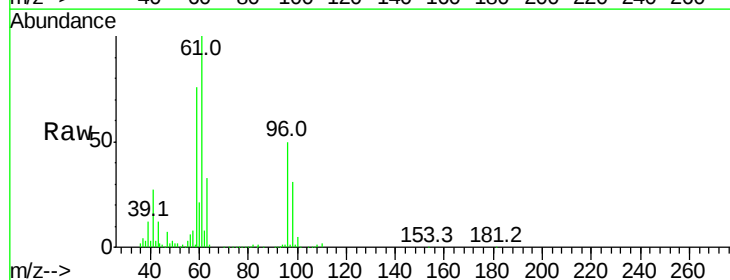
Tgt Ion: 96 Resp: 418855

Ion Ratio Lower Upper

96 100

61 200.0 165.8 248.8

98 61.3 50.8 76.2



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

4.31

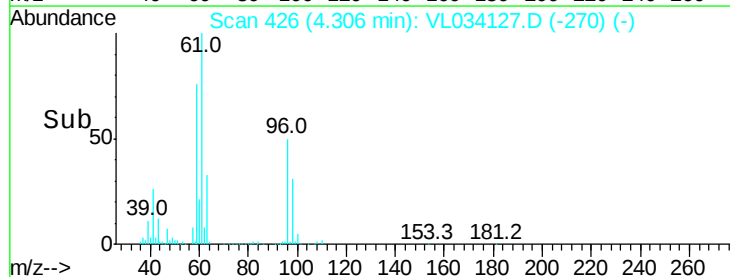
600000

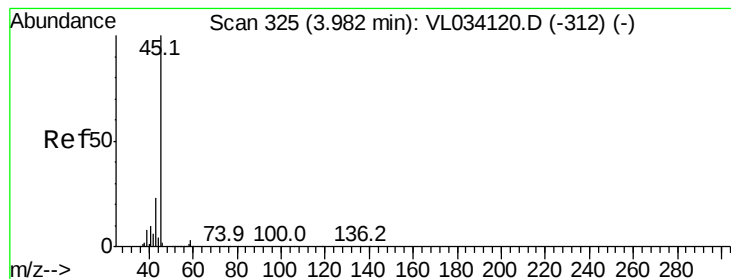
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 8.387 ppbv

RT: 3.98 min Scan# 325

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

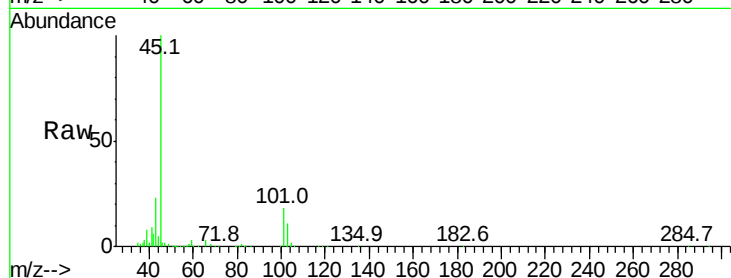
ICVVL090519

Tgt Ion: 45 Resp: 751920

Ion Ratio Lower Upper

45 100

58 37.0 1.0 1.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

400000

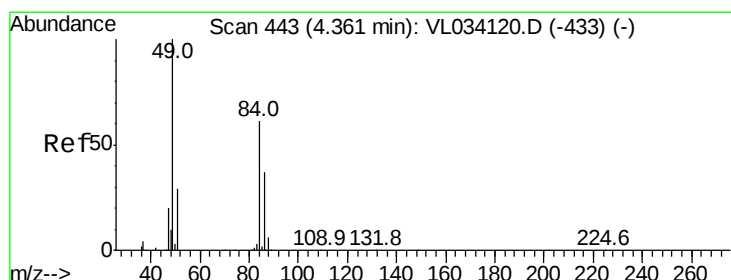
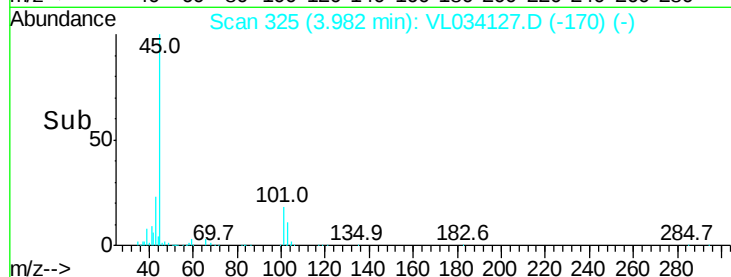
300000

200000

100000

0

Time--> 3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 8.418 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion: 84 Resp: 369726

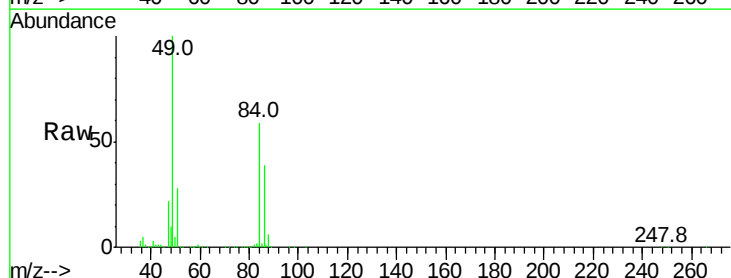
Ion Ratio Lower Upper

84 100

49 167.3 131.0 196.6

51 47.0 38.1 57.1

86 66.6 49.0 73.6



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

500000

400000

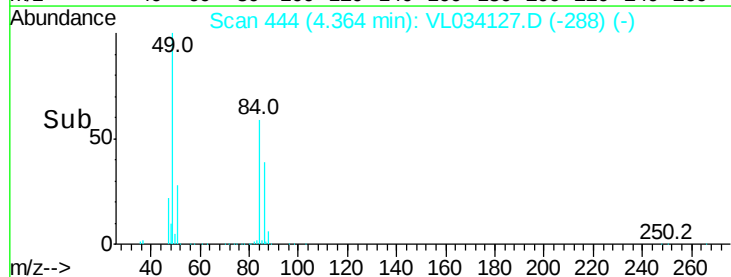
300000

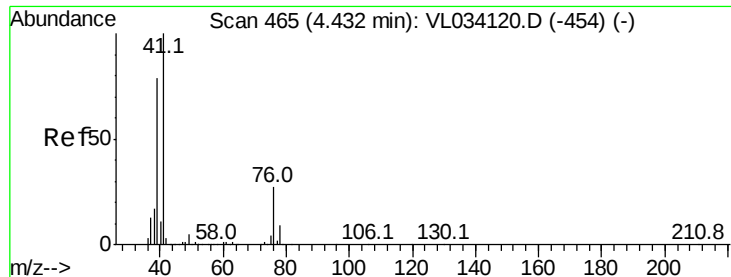
200000

100000

0

Time--> 4.30 4.35 4.40

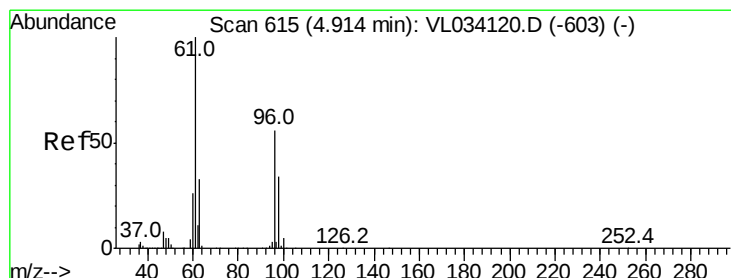
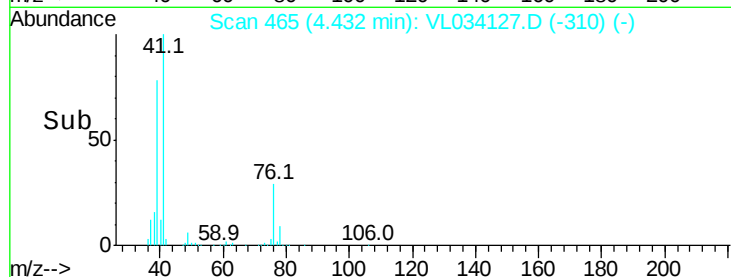
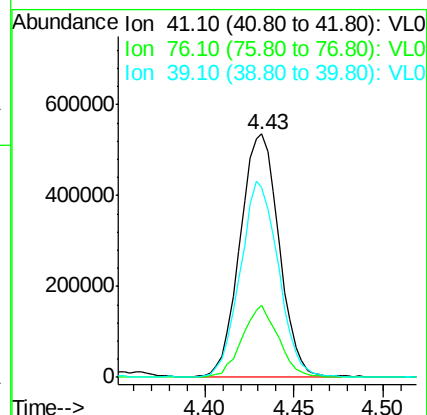
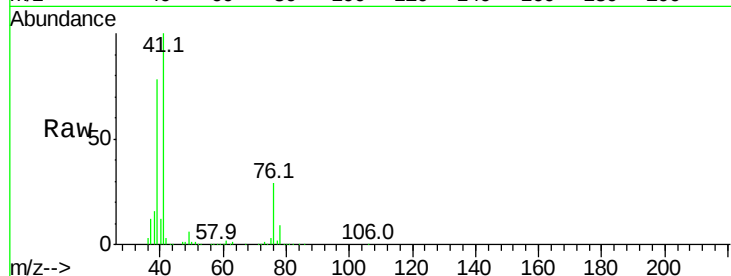




#21  
 Allyl Chloride  
 Concen: 9.258 ppbv  
 RT: 4.43 min Scan# 465  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

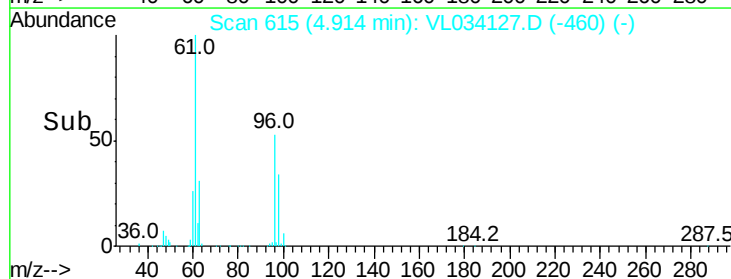
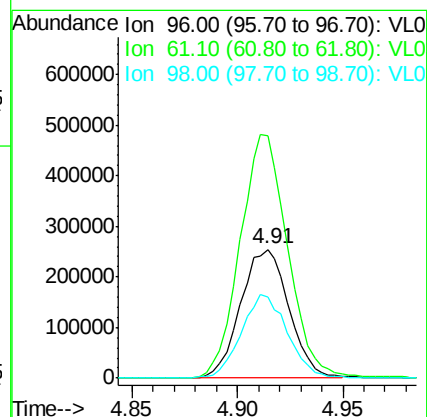
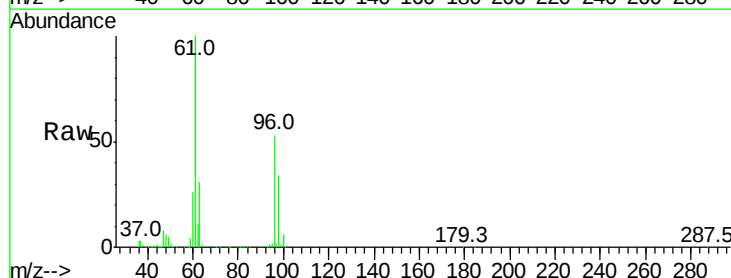
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL090519

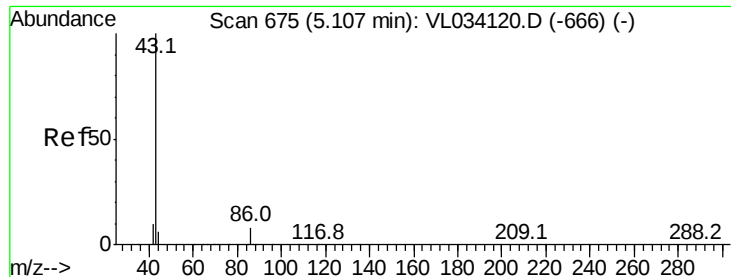
Tgt Ion: 41 Resp: 810777  
 Ion Ratio Lower Upper  
 41 100  
 76 27.5 21.6 32.4  
 39 79.6 65.0 97.4



#22  
 trans-1,2-Dichloroethene  
 Concen: 8.851 ppbv  
 RT: 4.91 min Scan# 615  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

Tgt Ion: 96 Resp: 401478  
 Ion Ratio Lower Upper  
 96 100  
 61 188.4 143.1 214.7  
 98 63.2 49.0 73.4





#23

Vinyl Acetate

Concen: 9.438 ppbv

RT: 5.11 min Scan# 675

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

Tgt Ion: 43 Resp: 2127005

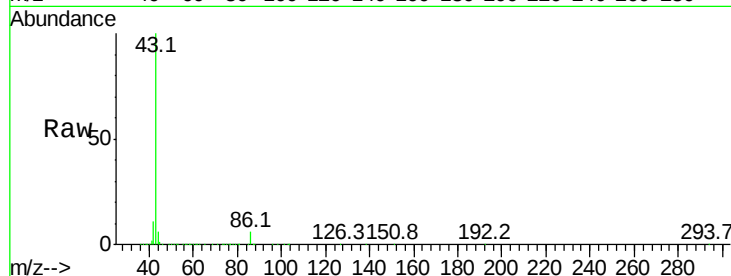
Ion Ratio Lower Upper

43 100

86 6.3 5.5 8.3

42 10.5 8.2 12.4

44 5.3 4.3 6.5

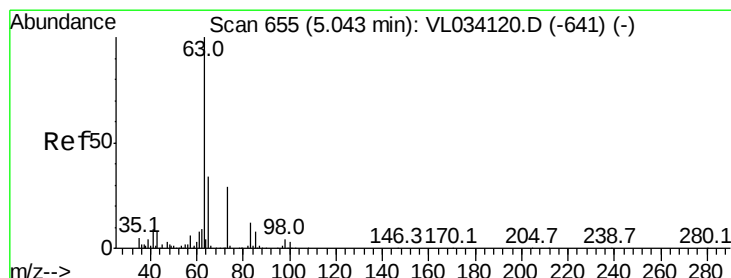
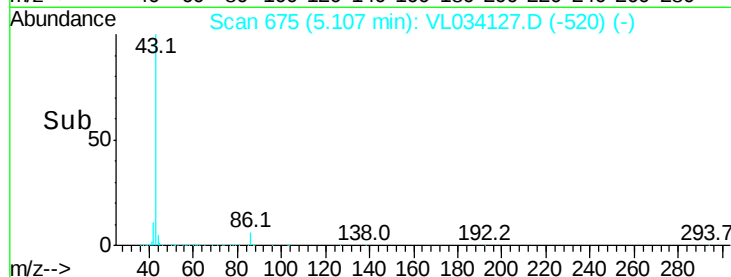
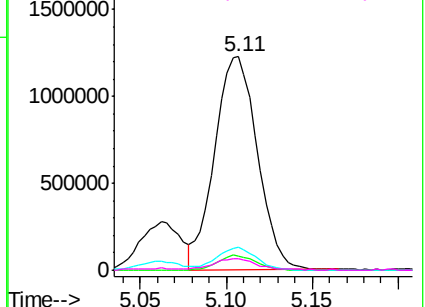


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 8.953 ppbv

RT: 5.04 min Scan# 655

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

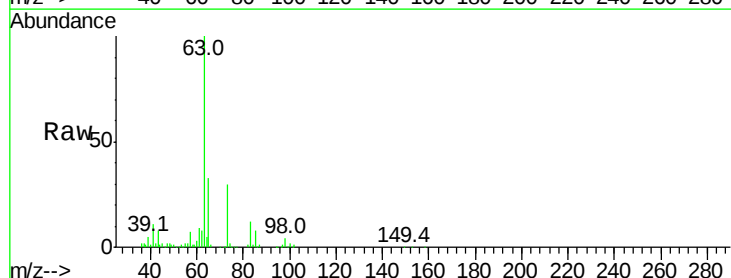
Tgt Ion: 63 Resp: 1339173

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.2

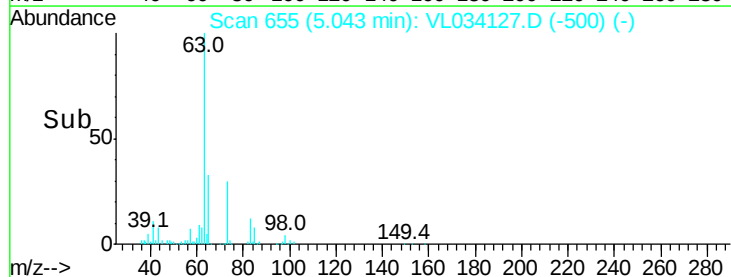
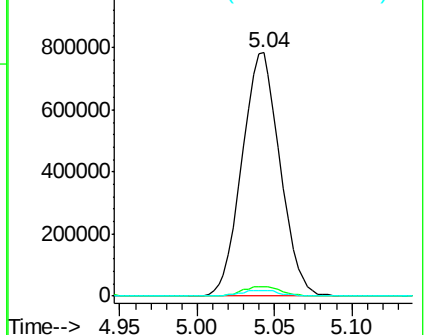
100 2.4 1.4 4.0

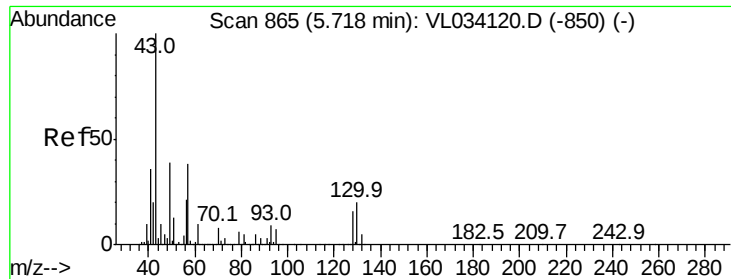


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.475 ppbv

RT: 5.71 min Scan# 864

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

Tgt Ion: 43 Resp: 2471237

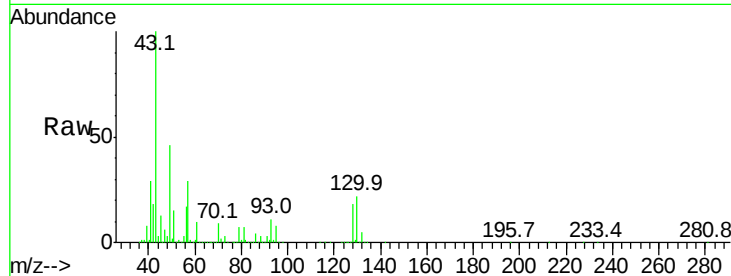
Ion Ratio Lower Upper

43 100

45 10.3 8.2 12.4

61 9.2 7.4 11.2

70 7.1 5.6 8.4

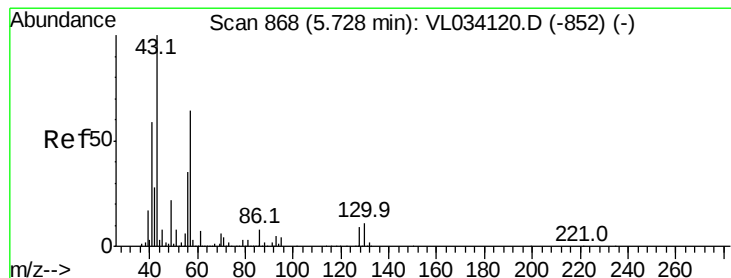
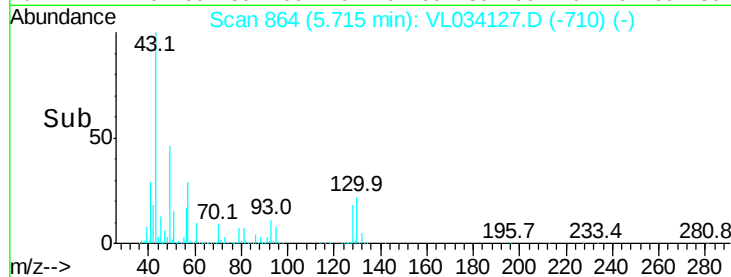
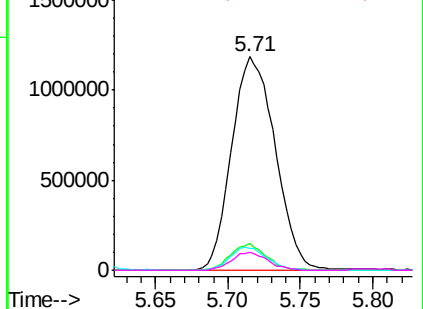


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 8.404 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion: 57 Resp: 1089510

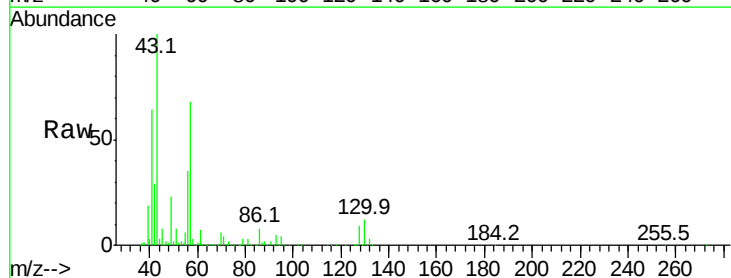
Ion Ratio Lower Upper

57 100

41 96.1 76.6 115.0

43 228.9 189.2 283.8

56 53.5 43.0 64.4

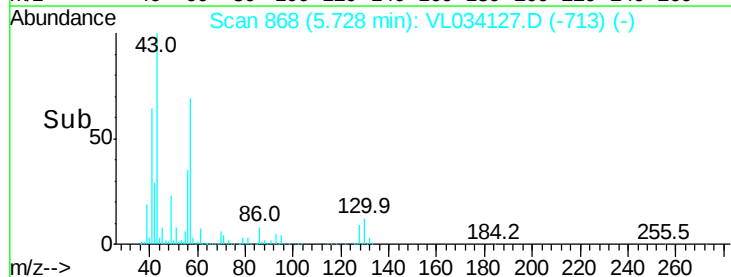
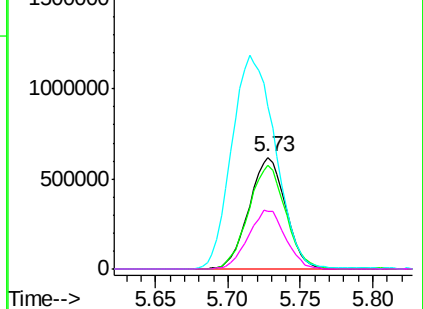


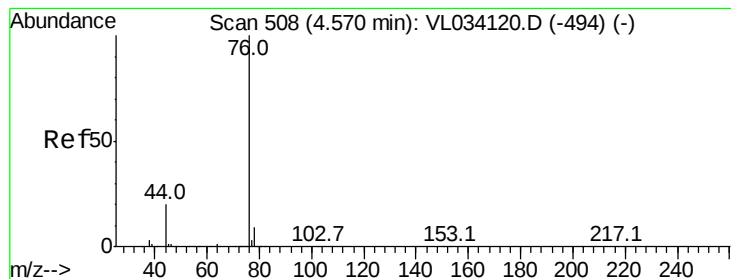
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 9.405 ppbv

RT: 4.57 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

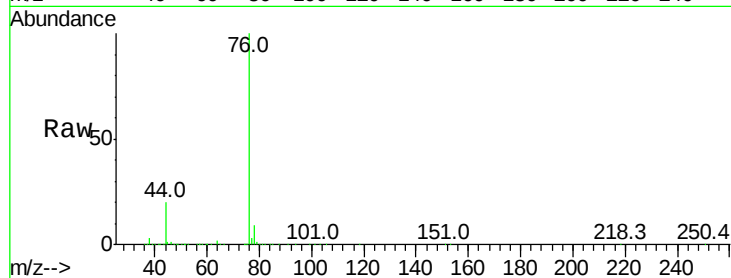
Tgt Ion: 76 Resp: 1100352

Ion Ratio Lower Upper

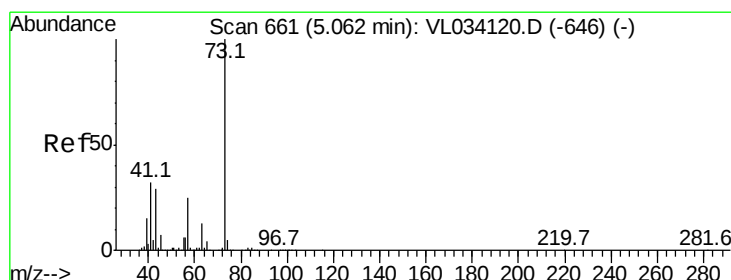
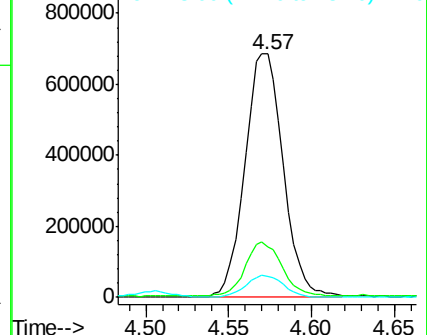
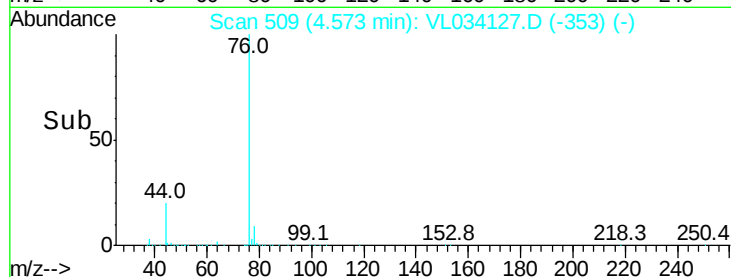
76 100

44 22.0 17.6 26.4

78 8.9 7.3 10.9



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: 9.211 ppbv

RT: 5.06 min Scan# 661

Delta R.T. -0.00 min

Lab File: VL034127.D

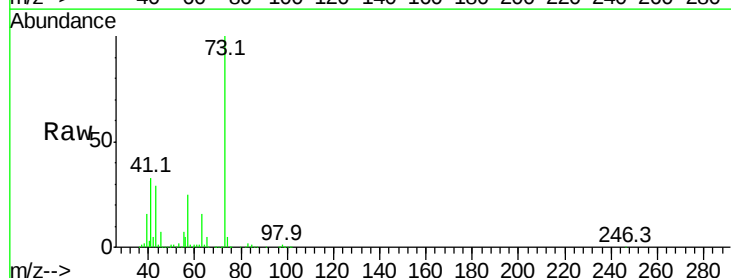
Acq: 5 Sep 2019 7:05

Tgt Ion: 73 Resp: 1749621

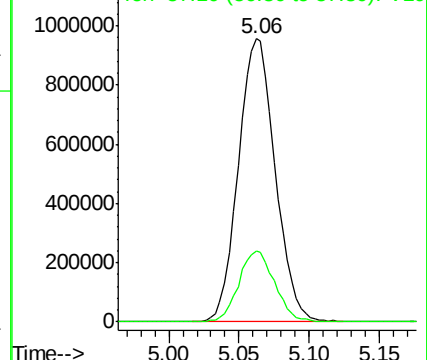
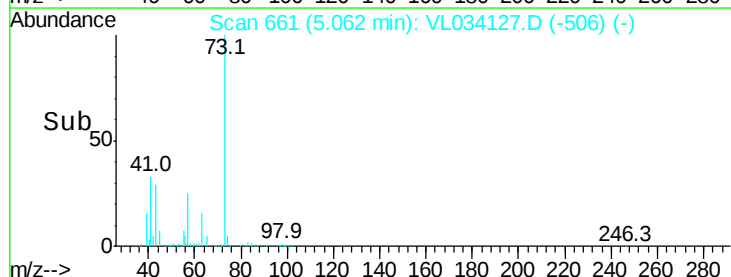
Ion Ratio Lower Upper

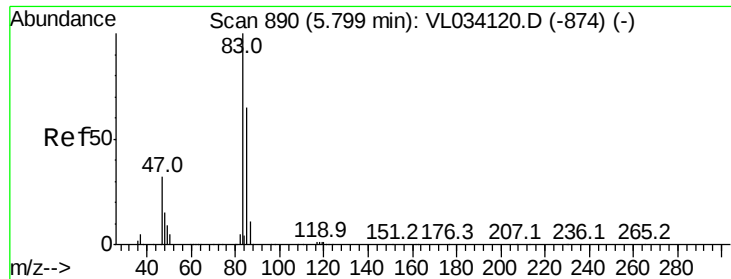
73 100

57 24.5 19.8 29.8



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





#29

Chloroform

Concen: 9.060 ppbv

RT: 5.80 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

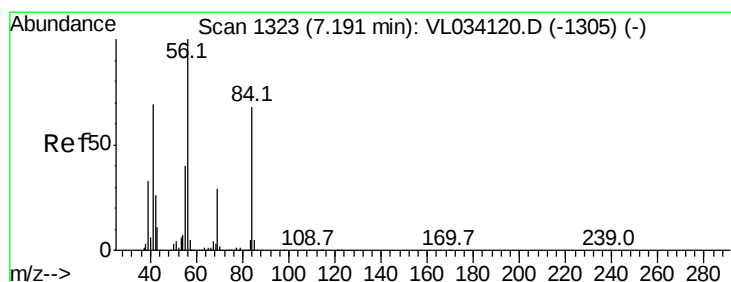
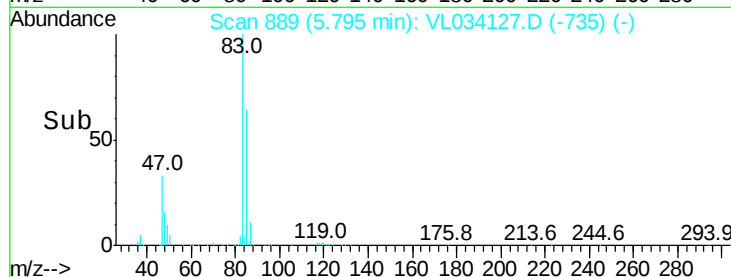
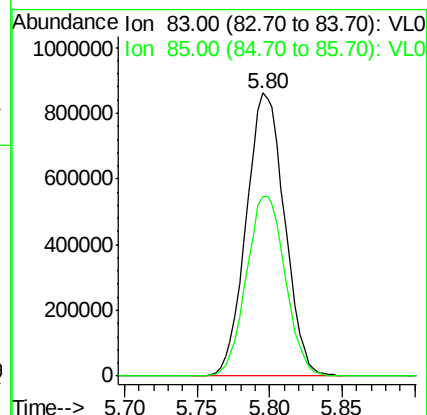
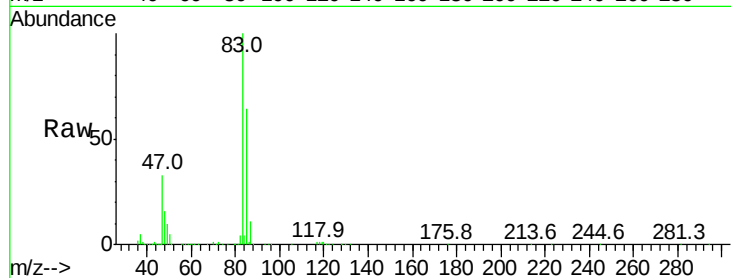
ICVVL090519

Tgt Ion: 83 Resp: 1584158

Ion Ratio Lower Upper

83 100

85 63.6 51.8 77.6



#30

Cyclohexane

Concen: 9.508 ppbv

RT: 7.19 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

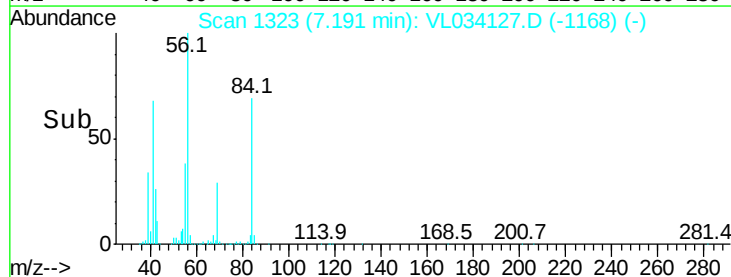
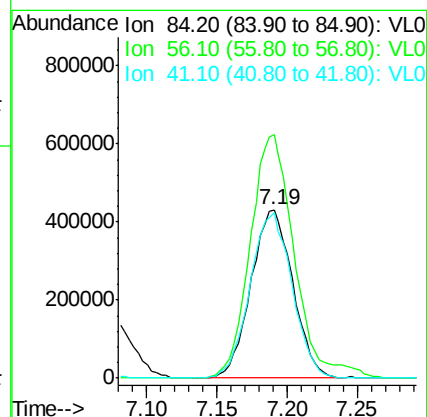
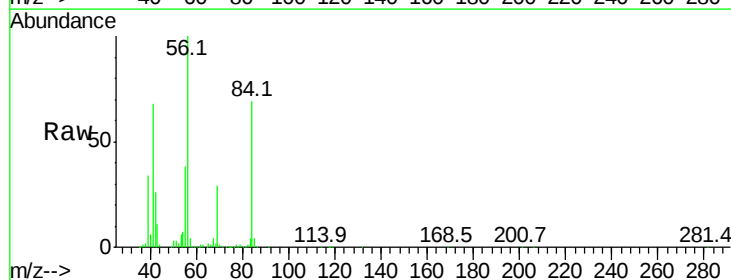
Tgt Ion: 84 Resp: 891131

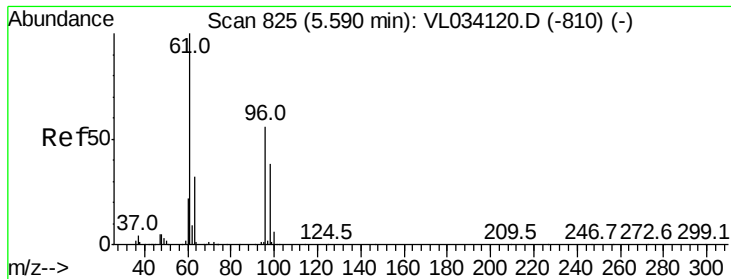
Ion Ratio Lower Upper

84 100

56 153.5 122.6 183.8

41 99.5 79.1 118.7



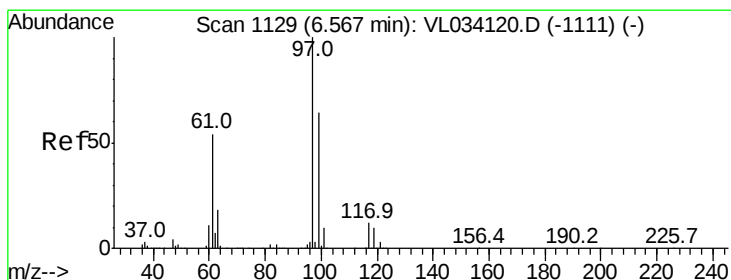
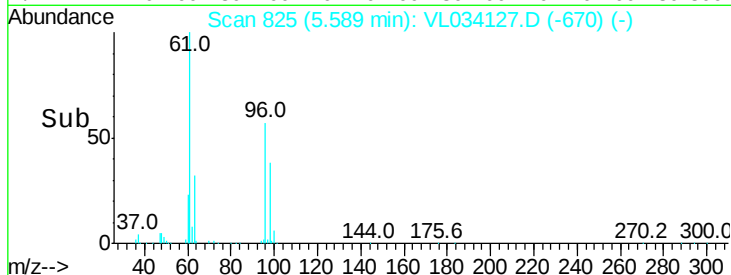
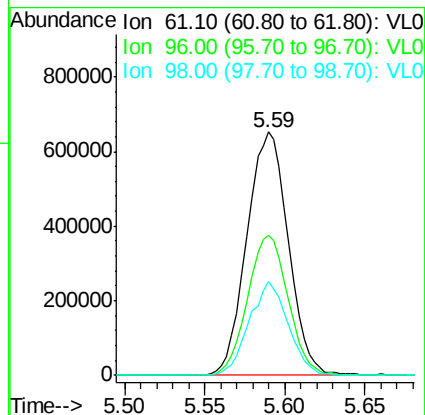
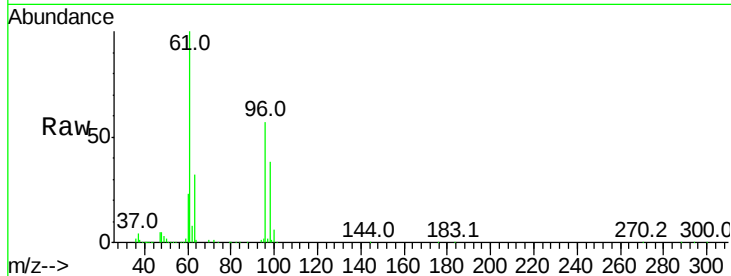


#31

cis-1,2-Dichloroethene  
Concen: 9.286 ppbv  
RT: 5.59 min Scan# 825  
Delta R.T. -0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL090519

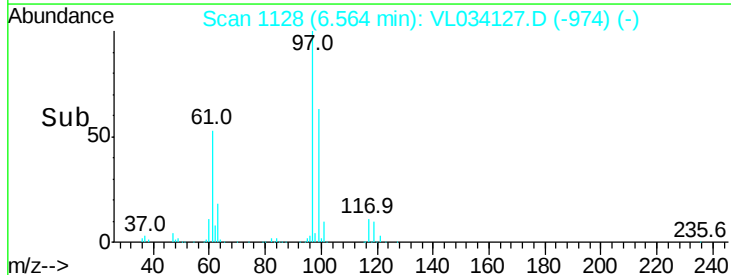
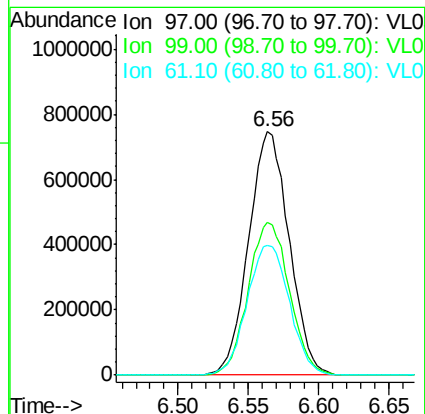
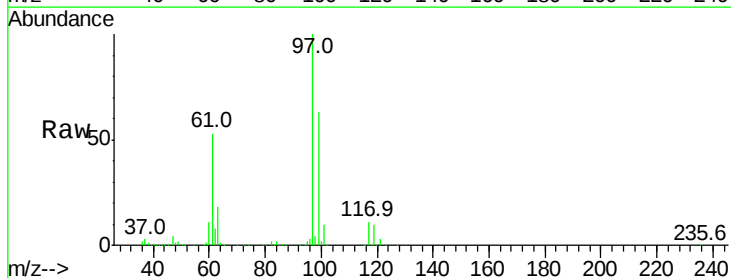
Tgt Ion: 61 Resp: 1152794  
Ion Ratio Lower Upper  
61 100  
96 57.3 44.4 66.6  
98 38.3 30.0 45.0

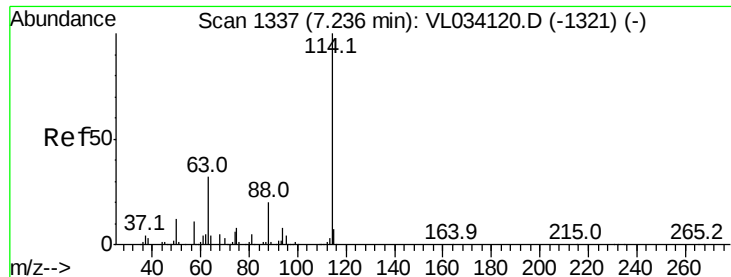


#32

1,1,1-Trichloroethane  
Concen: 9.089 ppbv  
RT: 6.56 min Scan# 1128  
Delta R.T. -0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

Tgt Ion: 97 Resp: 1501413  
Ion Ratio Lower Upper  
97 100  
99 64.2 51.7 77.5  
61 55.9 44.0 66.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.24 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

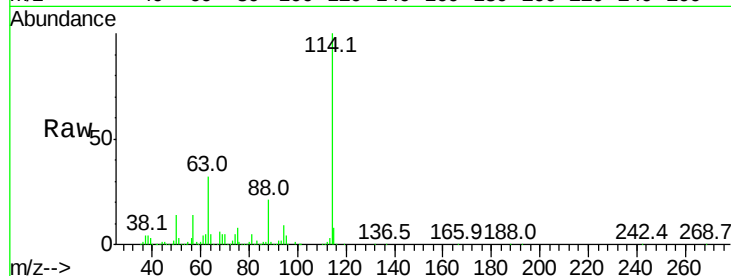
Tgt Ion:114 Resp: 2090110

Ion Ratio Lower Upper

114 100

63 31.8 25.5 38.3

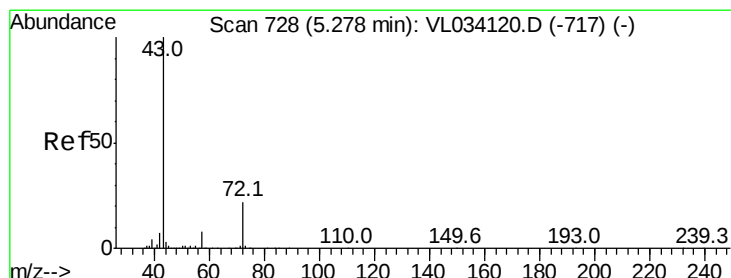
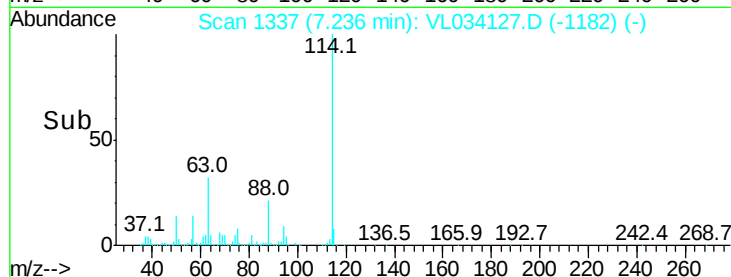
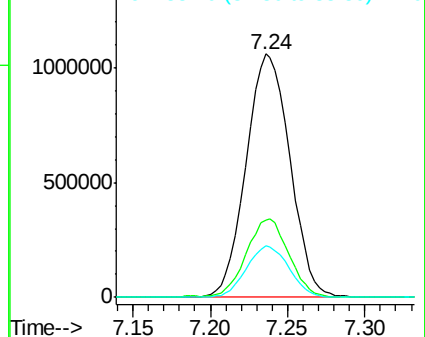
88 20.6 16.8 25.2



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 8.893 ppbv

RT: 5.28 min Scan# 728

Delta R.T. -0.00 min

Lab File: VL034127.D

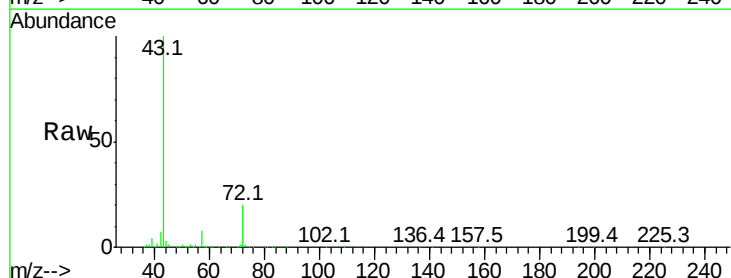
Acq: 5 Sep 2019 7:05

Tgt Ion: 43 Resp: 1786913

Ion Ratio Lower Upper

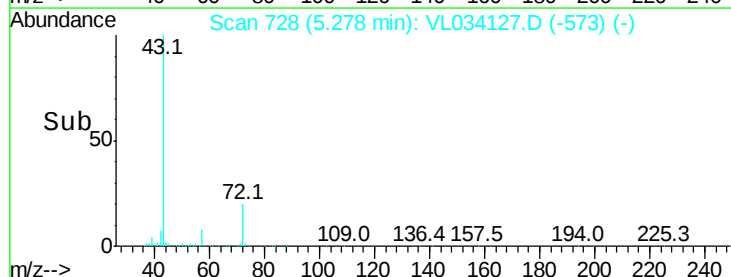
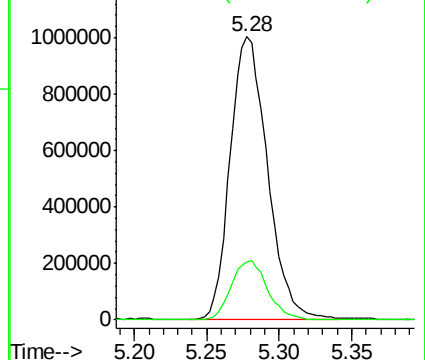
43 100

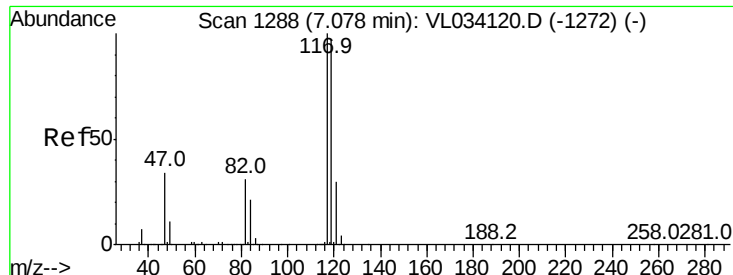
72 20.3 16.5 24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.797 ppbv

RT: 7.08 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

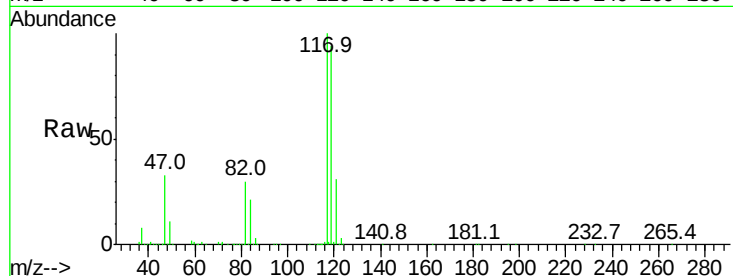
Tgt Ion:117 Resp: 1433566

Ion Ratio Lower Upper

117 100

119 94.1 77.2 115.8

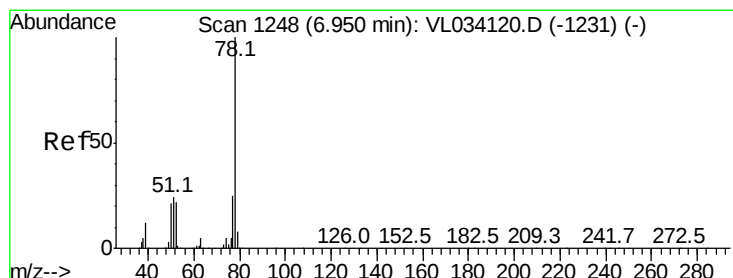
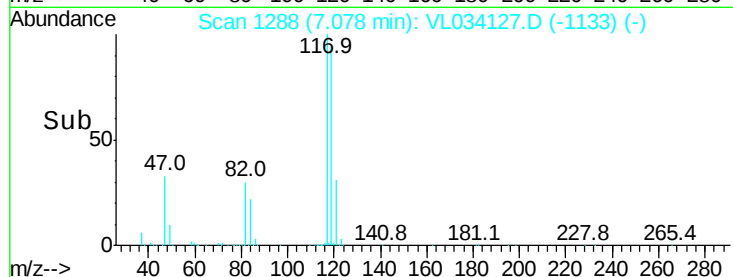
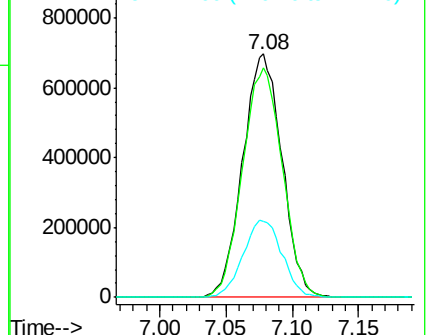
121 30.9 24.2 36.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.952 ppbv

RT: 6.95 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

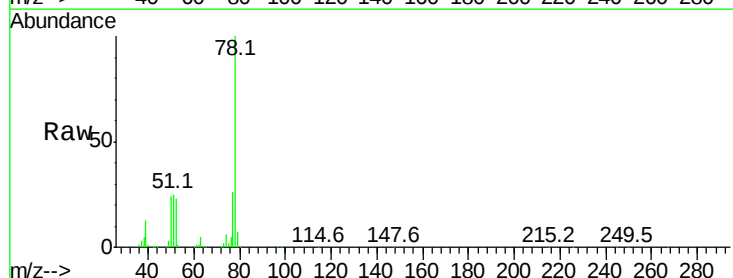
Tgt Ion: 78 Resp: 2138779

Ion Ratio Lower Upper

78 100

77 25.6 20.3 30.5

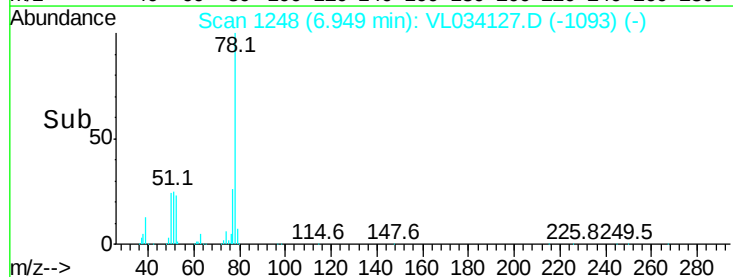
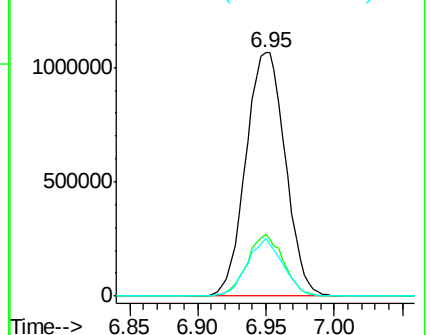
50 23.7 16.9 25.3

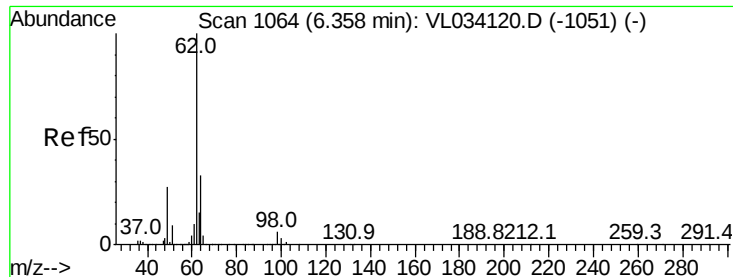


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

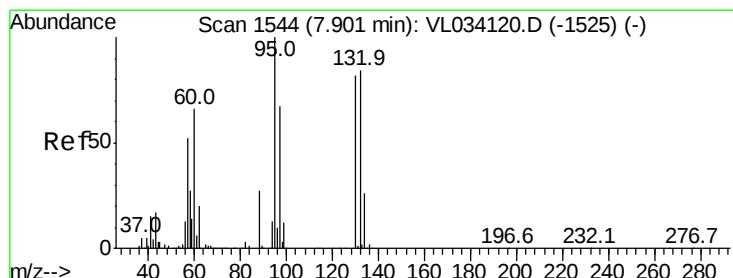
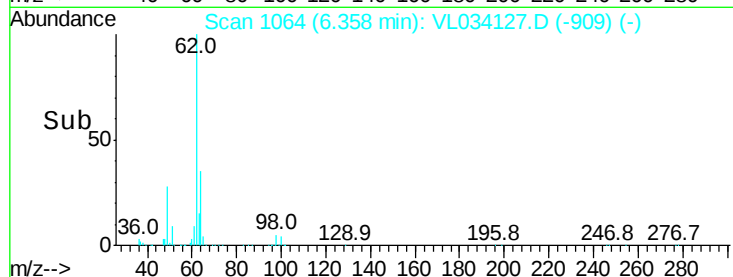
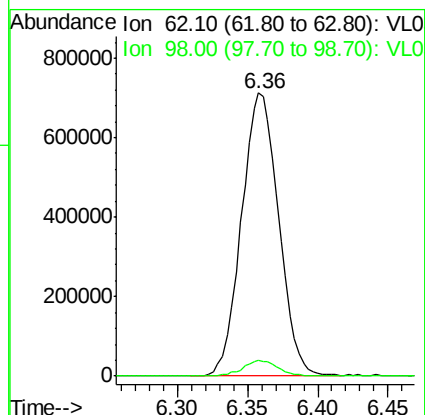
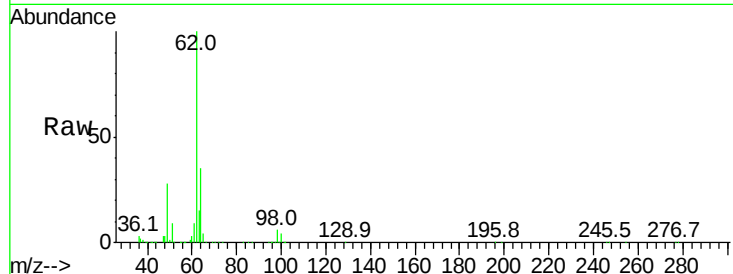




#37  
 1,2-Dichloroethane  
 Concen: 8.971 ppbv  
 RT: 6.36 min Scan# 1064  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

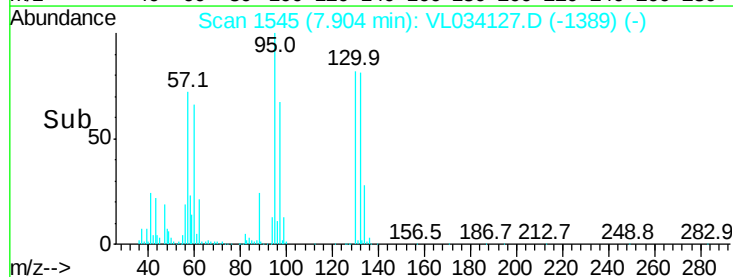
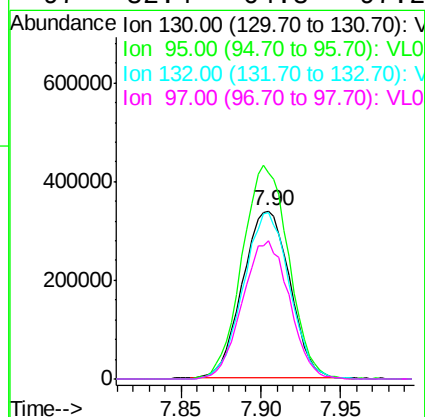
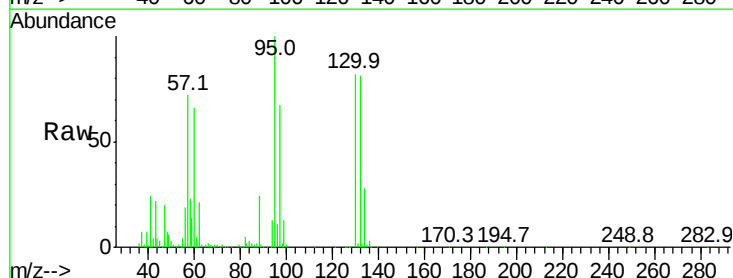
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL090519

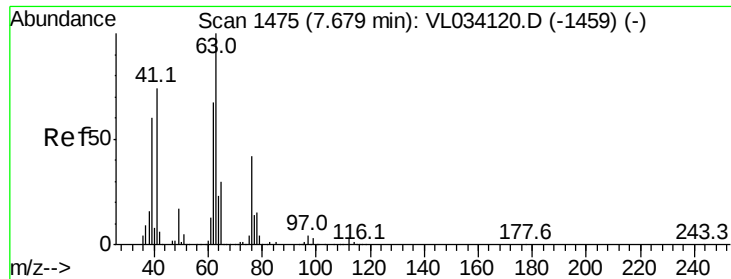
Tgt Ion: 62 Resp: 1314713  
 Ion Ratio Lower Upper  
 62 100  
 98 5.3 4.4 6.6



#38  
 Trichloroethene  
 Concen: 7.671 ppbv  
 RT: 7.90 min Scan# 1545  
 Delta R.T. 0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

Tgt Ion: 130 Resp: 683853  
 Ion Ratio Lower Upper  
 130 100  
 95 122.9 97.2 145.8  
 132 99.3 81.4 122.2  
 97 82.4 64.8 97.2

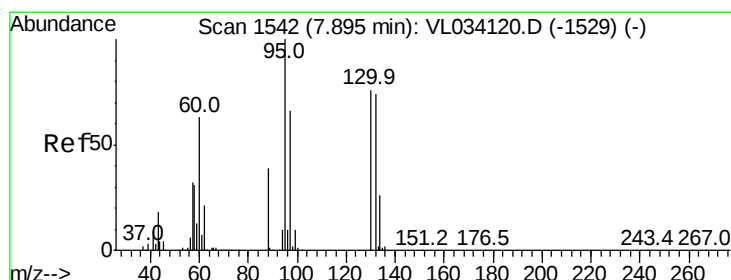
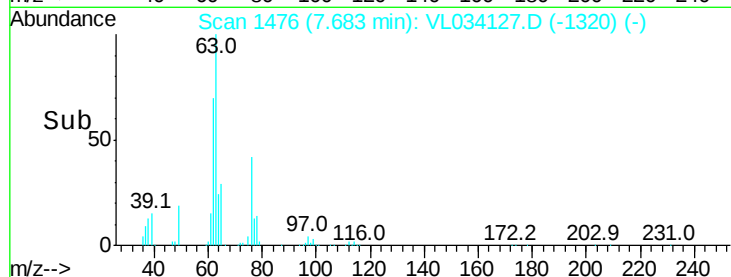
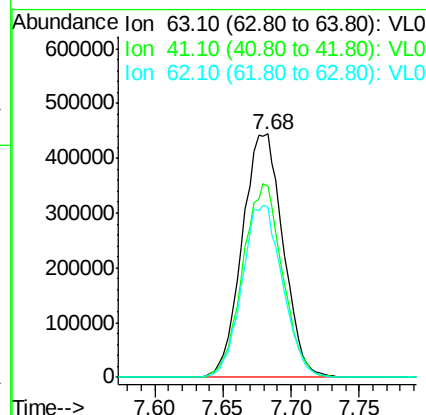
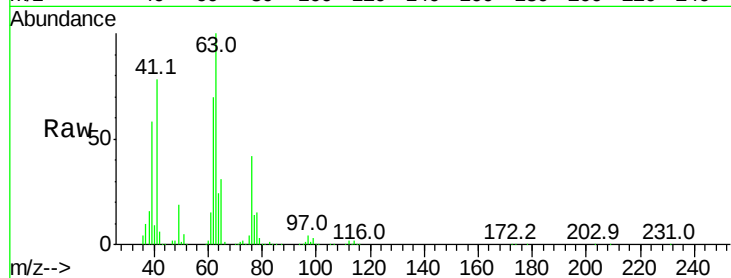




#39  
 1,2-Dichloropropane  
 Concen: 9.057 ppbv  
 RT: 7.68 min Scan# 1476  
 Delta R.T. 0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

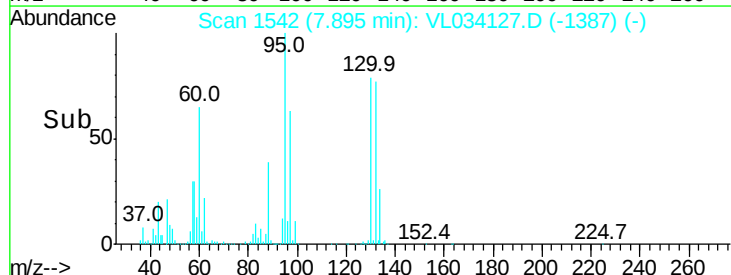
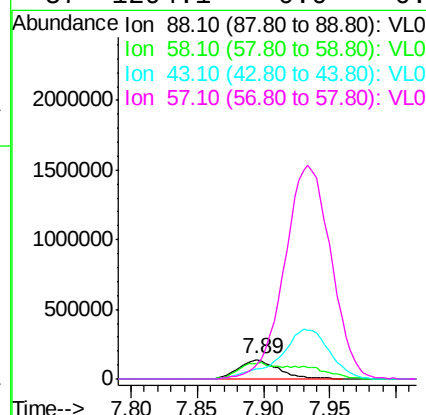
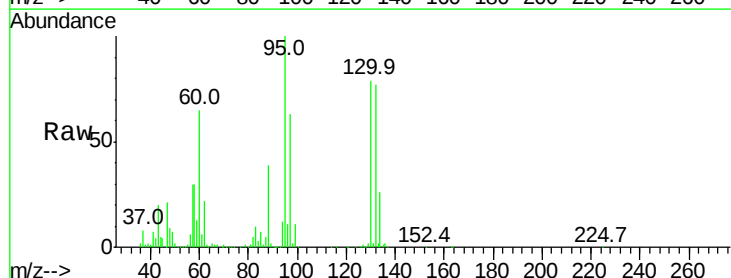
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL090519

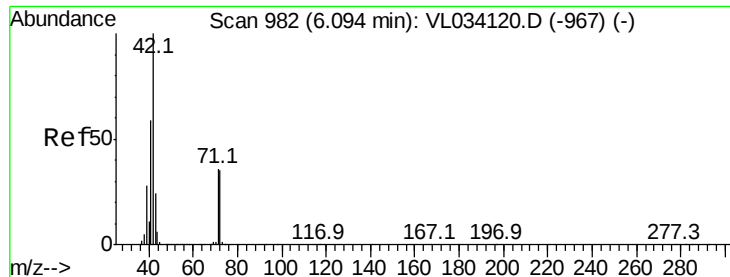
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 78.3  | 59.3  | 88.9  |
| 62      | 70.0  | 53.8  | 80.6  |



#40  
 1,4-Dioxane  
 Concen: 7.759 ppbv  
 RT: 7.89 min Scan# 1542  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 146.2  | 121.7 | 182.5 |
| 43      | 320.3  | 0.0   | 0.0#  |
| 57      | 1294.1 | 0.0   | 0.0#  |





#41

Tetrahydrofuran

Concen: 9.219 ppbv

RT: 6.09 min Scan# 981

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

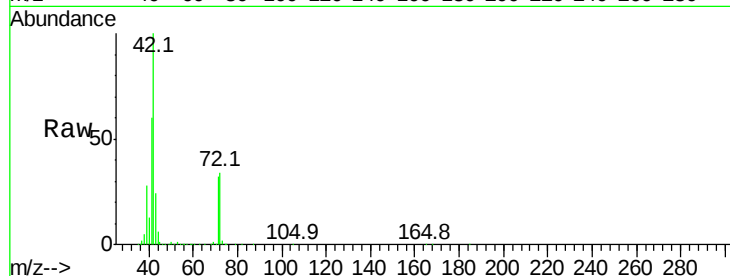
MSVOA\_L

ClientSampleId :

ICVVL090519

Tgt Ion: 42 Resp: 1110621

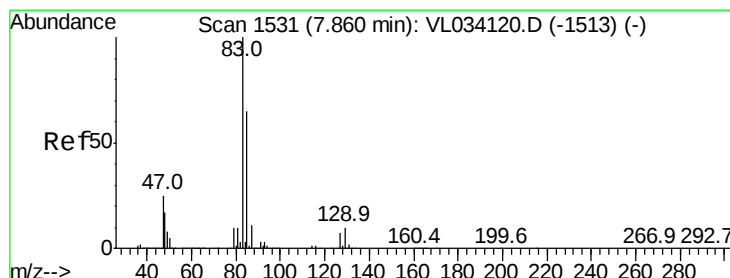
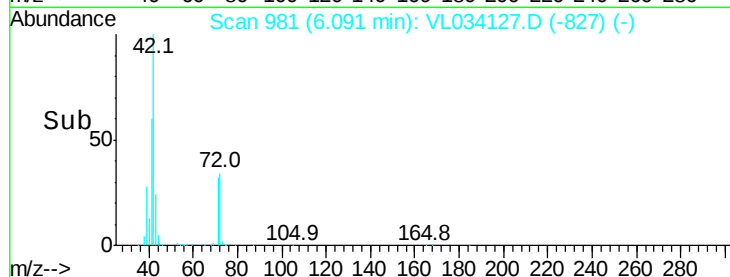
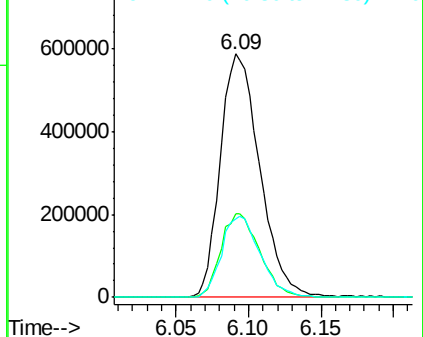
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 34.2  | 27.7  | 41.5  |
| 71  | 32.8  | 26.7  | 40.1  |



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: 9.091 ppbv

RT: 7.86 min Scan# 1532

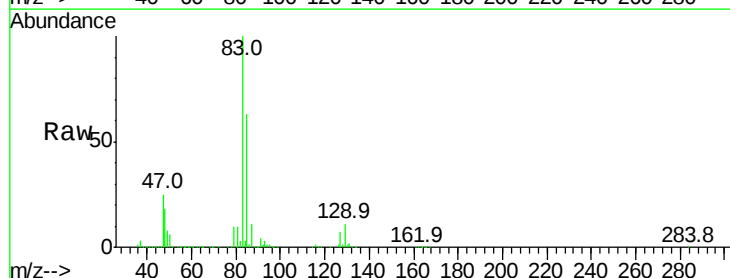
Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion: 83 Resp: 1736412

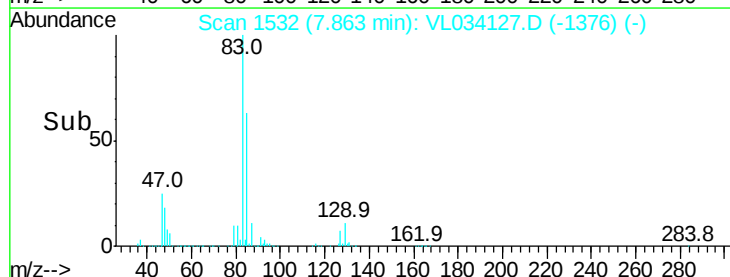
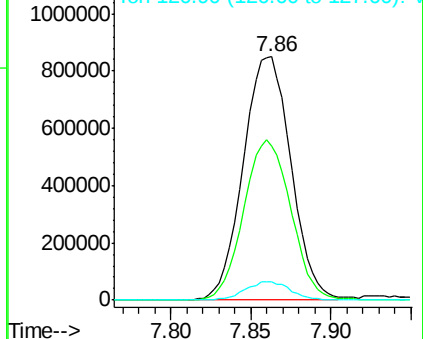
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 63.4  | 51.6  | 77.4  |
| 127 | 7.5   | 5.4   | 8.0   |

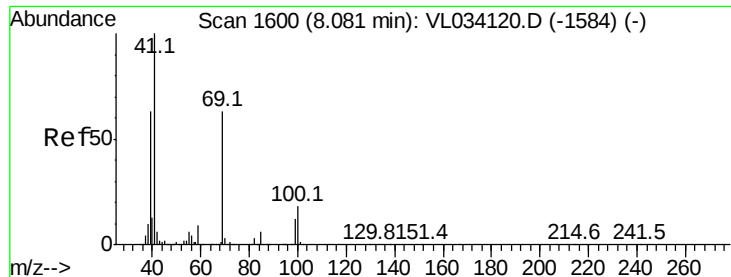


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

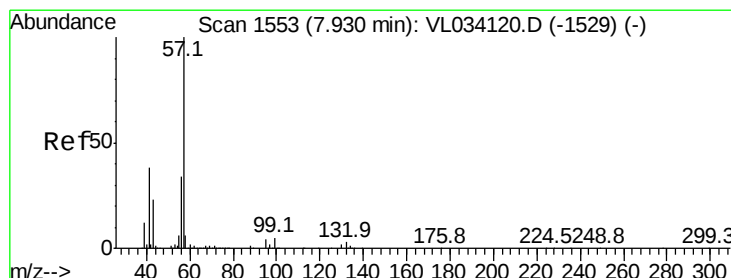
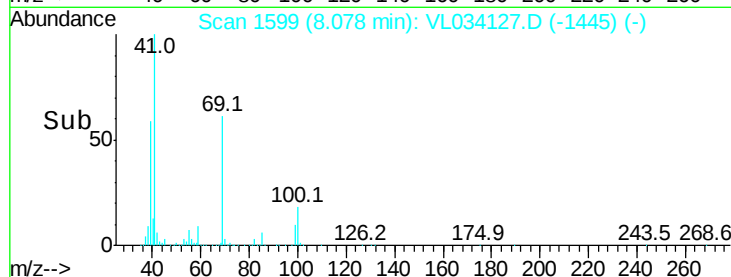
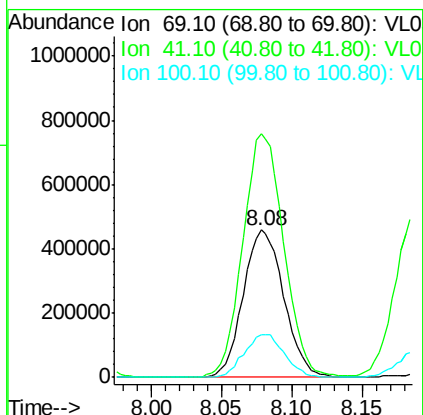
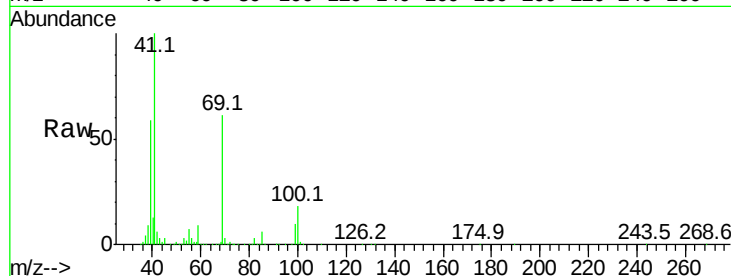




#43  
Methyl Methacrylate  
Concen: 9.390 ppbv  
RT: 8.08 min Scan# 1599  
Delta R.T. -0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

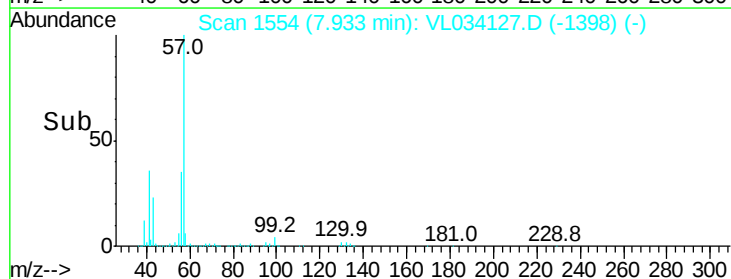
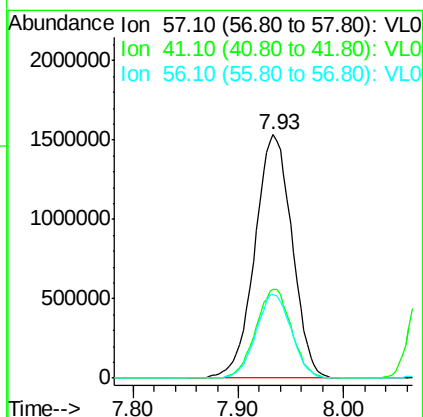
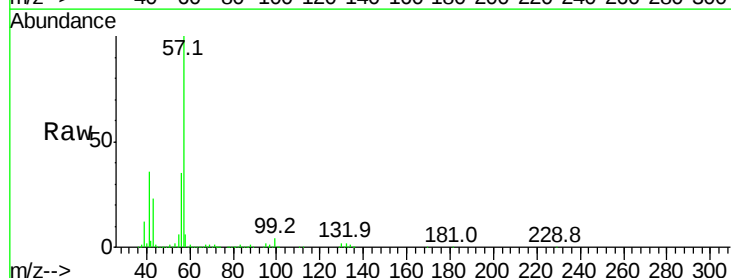
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL090519

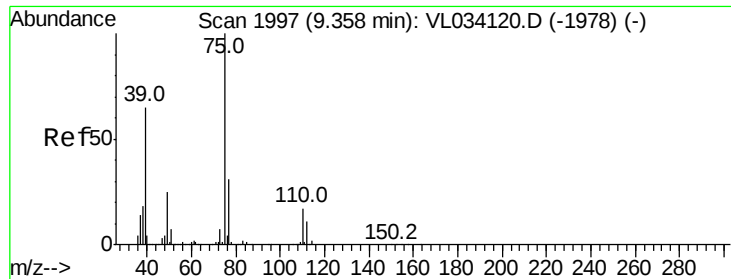
Tgt Ion: 69 Resp: 924194  
Ion Ratio Lower Upper  
69 100  
41 166.3 131.0 196.6  
100 28.9 22.6 33.8



#44  
2,2,4-Trimethylpentane  
Concen: 8.553 ppbv  
RT: 7.93 min Scan# 1554  
Delta R.T. 0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

Tgt Ion: 57 Resp: 3767139  
Ion Ratio Lower Upper  
57 100  
41 35.1 28.4 42.6  
56 32.7 26.3 39.5





#45

t-1,3-Dichloropropene

Concen: 9.521 ppbv

RT: 9.35 min Scan# 1996

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

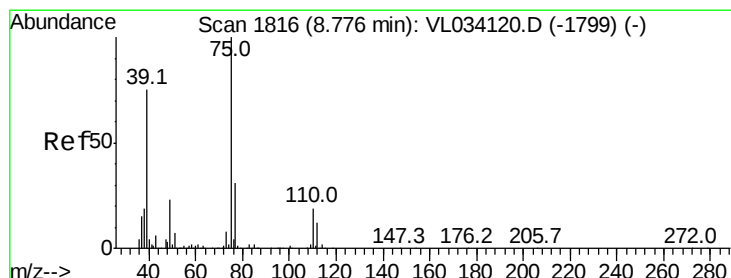
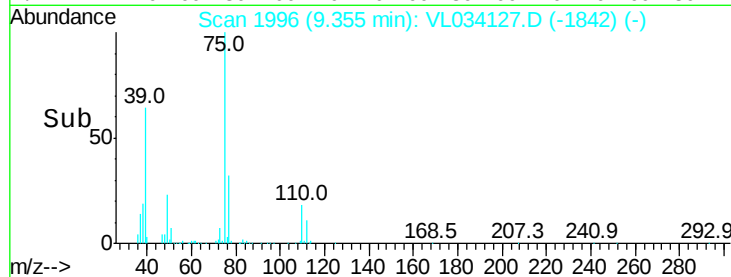
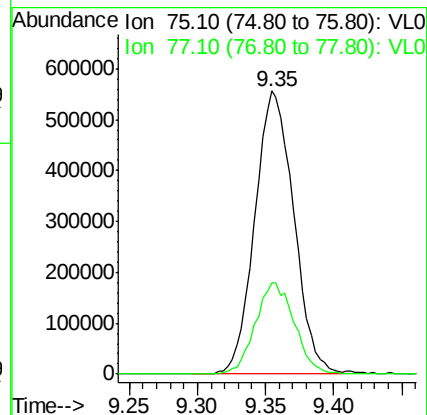
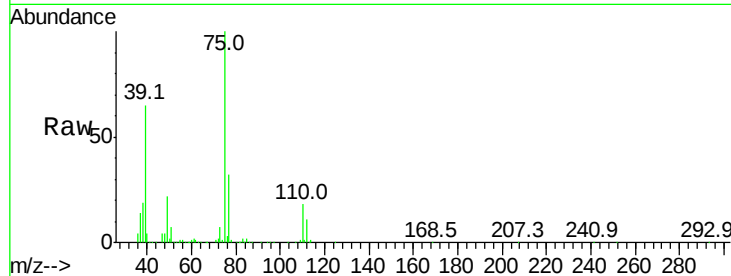
ICVVL090519

Tgt Ion: 75 Resp: 1101320

Ion Ratio Lower Upper

75 100

77 32.3 24.6 36.8



#46

cis-1,3-Dichloropropene

Concen: 9.230 ppbv

RT: 8.78 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

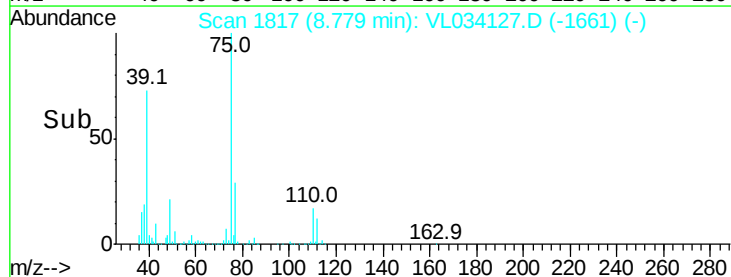
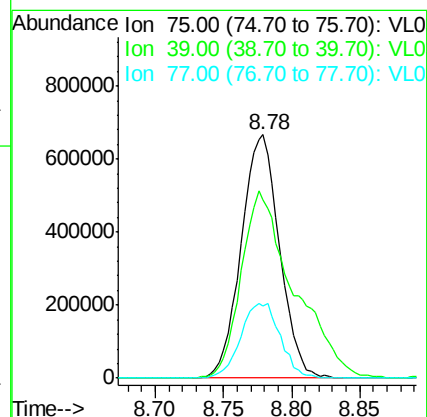
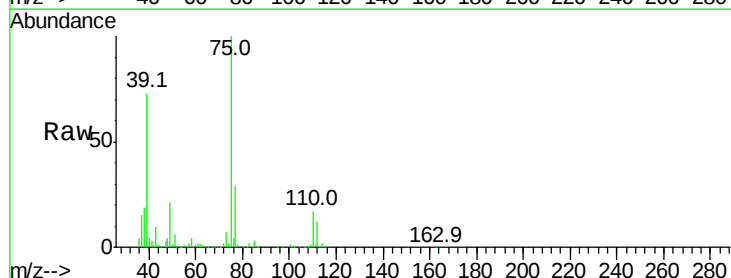
Tgt Ion: 75 Resp: 1299022

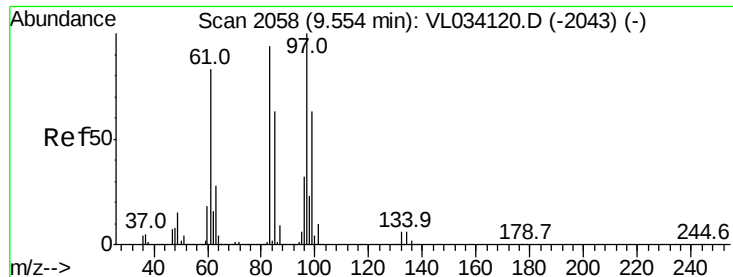
Ion Ratio Lower Upper

75 100

39 73.1 60.0 90.0

77 29.5 24.8 37.2

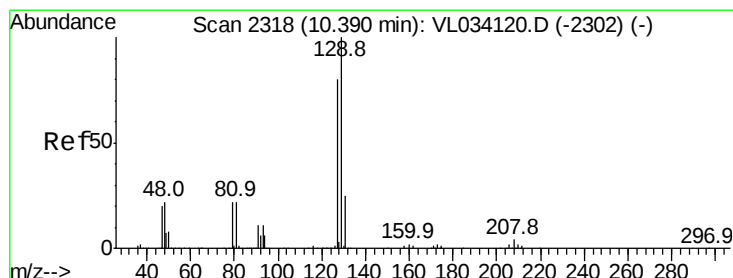
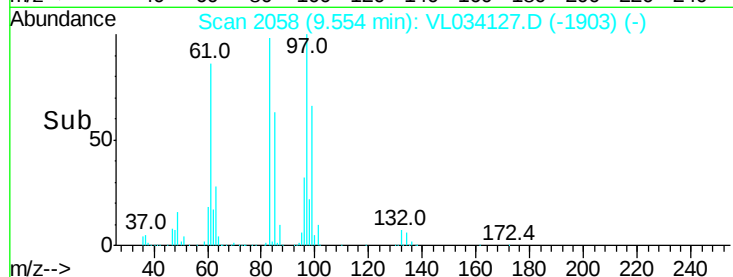
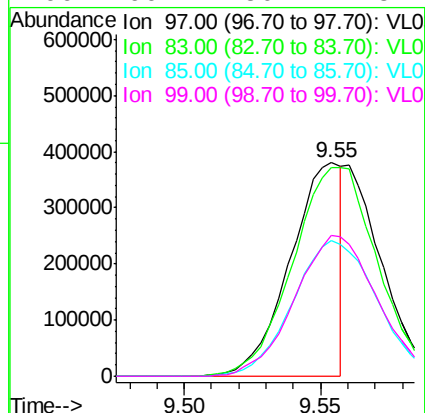
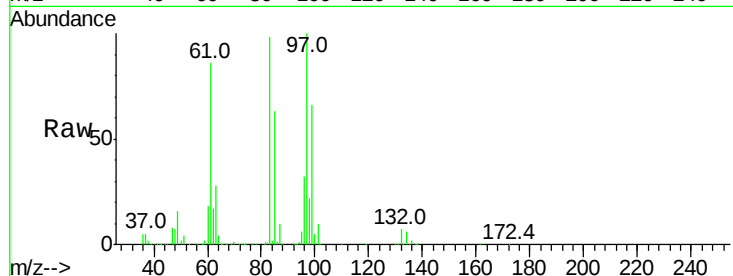




#47  
 1,1,2-Trichloroethane  
 Concen: 5.357 ppbv  
 RT: 9.55 min Scan# 2058  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

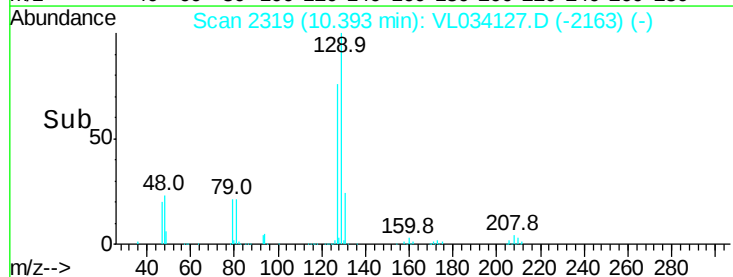
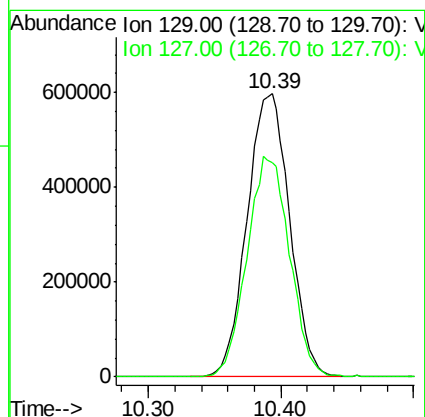
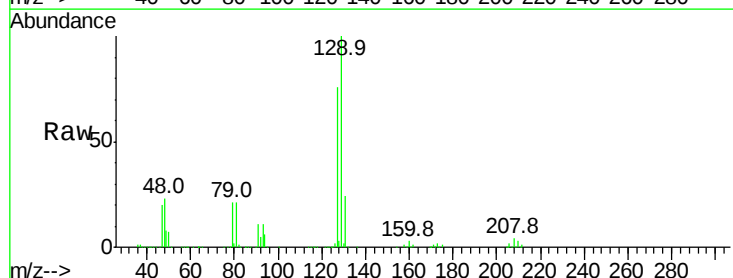
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL090519

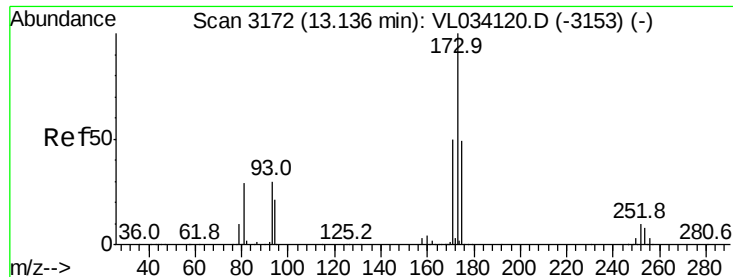
Tgt Ion: 97 Resp: 498968  
 Ion Ratio Lower Upper  
 97 100  
 83 97.9 74.9 112.3  
 85 63.4 50.6 75.8  
 99 66.1 50.2 75.2



#48  
 Dibromochloromethane  
 Concen: 9.574 ppbv  
 RT: 10.39 min Scan# 2319  
 Delta R.T. 0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

Tgt Ion: 129 Resp: 1330658  
 Ion Ratio Lower Upper  
 129 100  
 127 78.2 40.2 120.6





#49

Bromoform

Concen: 9.450 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

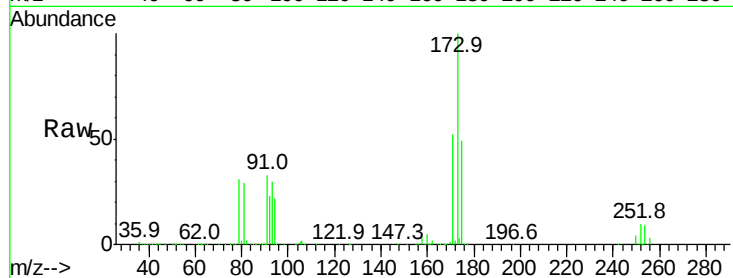
Tgt Ion:173 Resp: 1151541

Ion Ratio Lower Upper

173 100

175 48.6 40.0 60.0

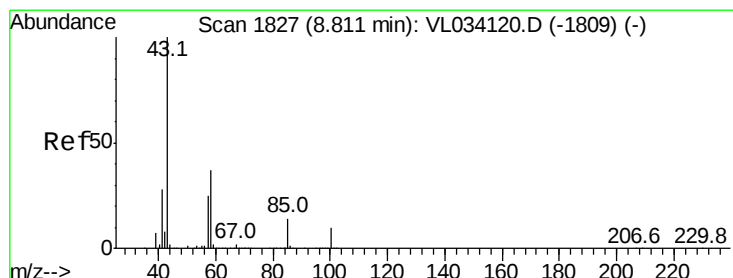
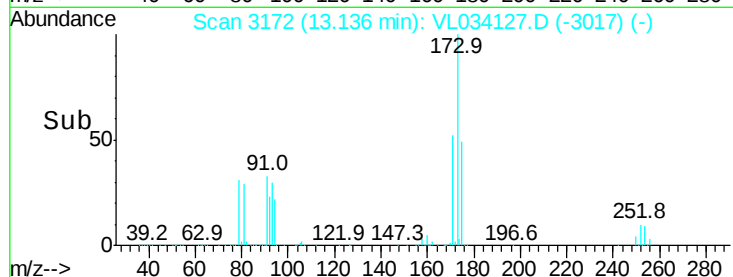
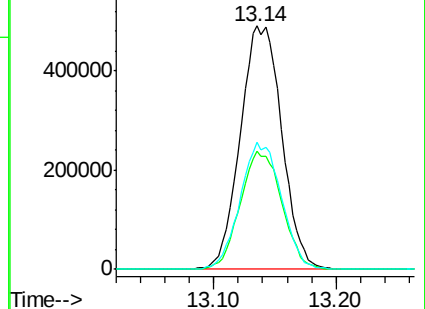
171 51.8 42.2 63.2



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: 8.658 ppbv

RT: 8.81 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VL034127.D

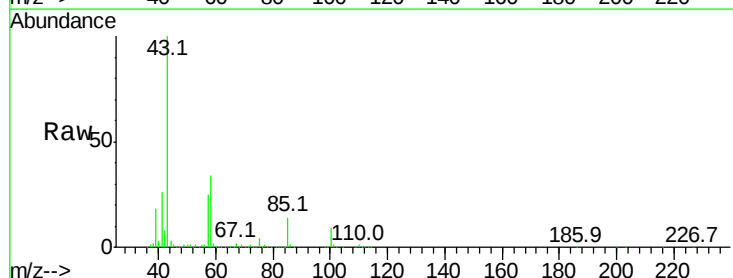
Acq: 5 Sep 2019 7:05

Tgt Ion: 43 Resp: 2654818

Ion Ratio Lower Upper

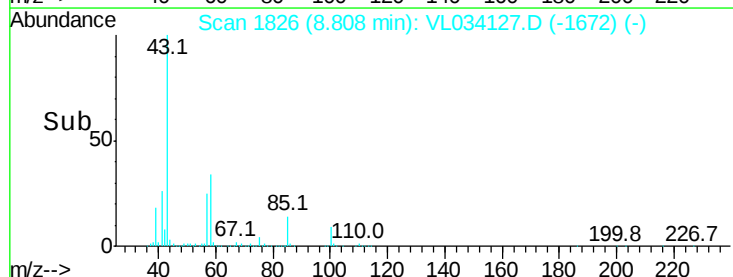
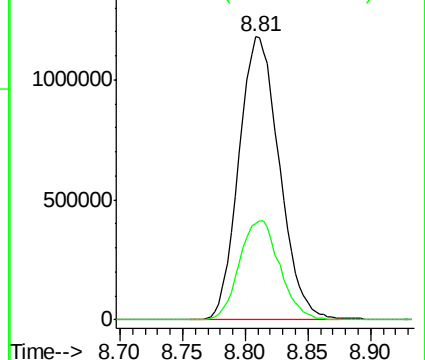
43 100

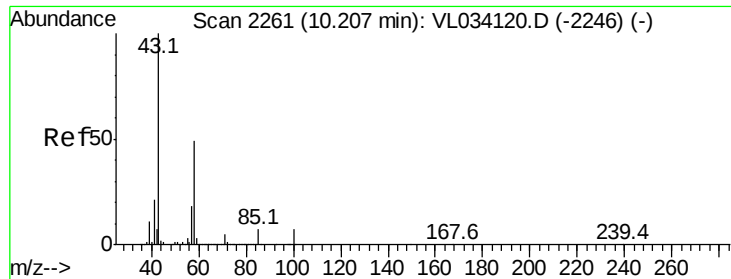
58 35.0 28.5 42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

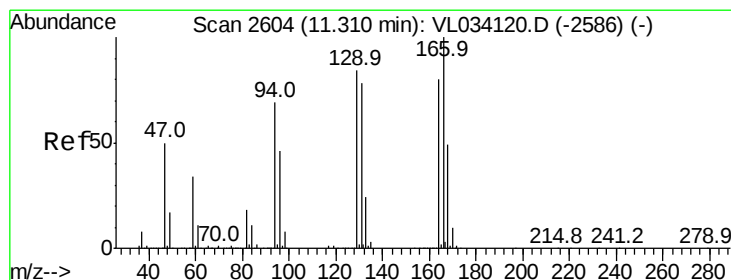
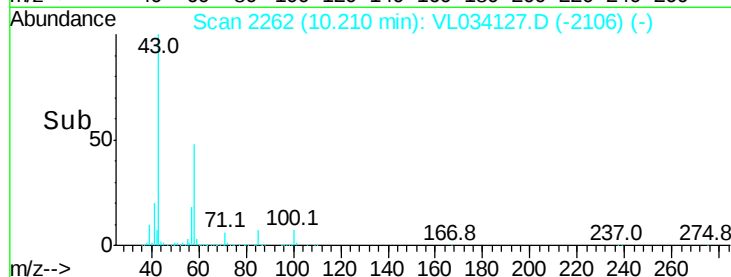
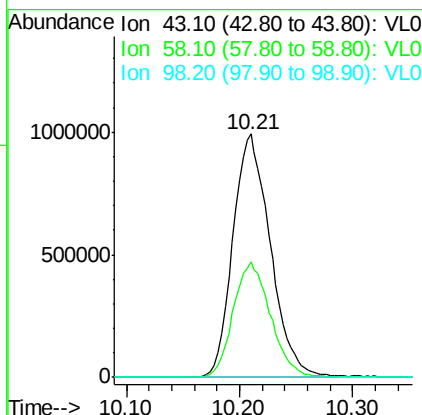
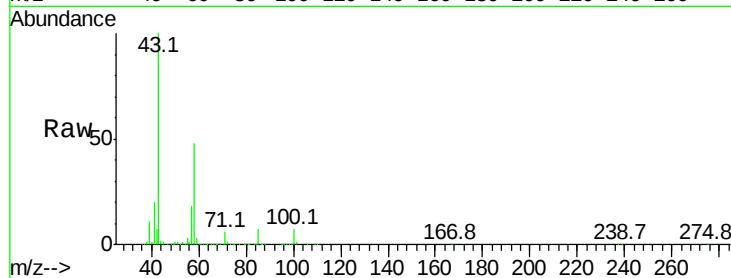




#51  
2-Hexanone  
Concen: 8.611 ppbv  
RT: 10.21 min Scan# 2262  
Delta R.T. 0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

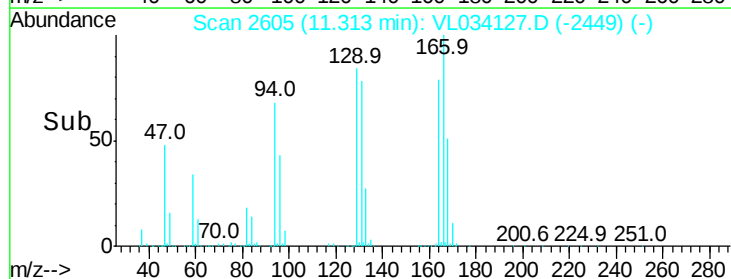
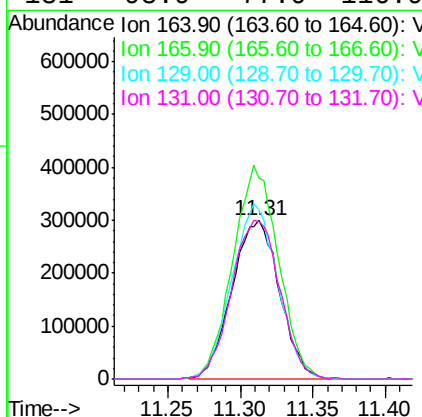
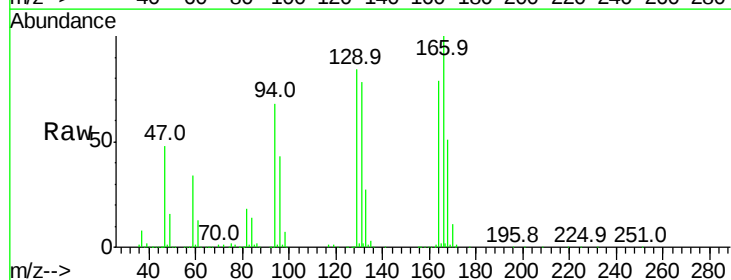
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL090519

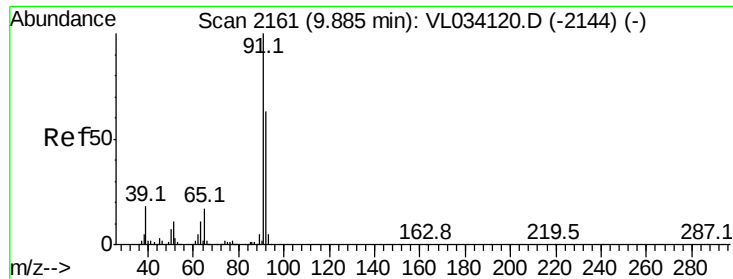
Tgt Ion: 43 Resp: 2280979  
Ion Ratio Lower Upper  
43 100  
58 47.3 38.2 57.2  
98 0.1 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 8.081 ppbv  
RT: 11.31 min Scan# 2605  
Delta R.T. 0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

Tgt Ion: 164 Resp: 680766  
Ion Ratio Lower Upper  
164 100  
166 126.6 99.5 149.3  
129 106.5 83.6 125.4  
131 98.9 77.9 116.9





#53

Toluene

Concen: 9.053 ppbv

RT: 9.89 min Scan# 2161

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

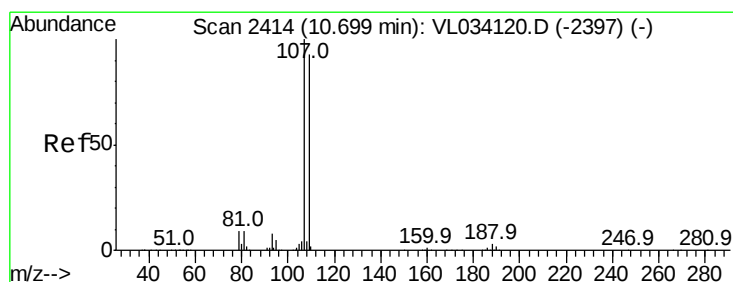
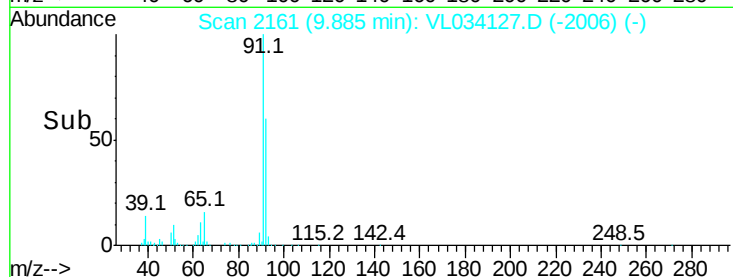
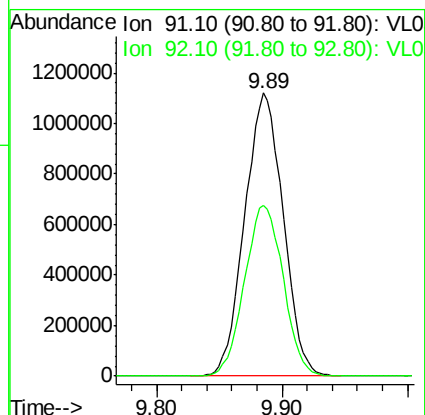
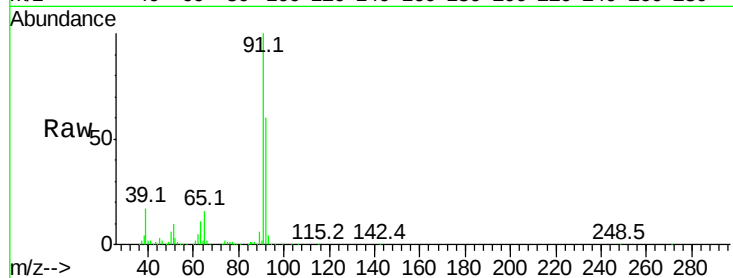
ICVVL090519

Tgt Ion: 91 Resp: 2392128

Ion Ratio Lower Upper

91 100

92 60.6 49.3 73.9



#54

1,2-Dibromoethane

Concen: 9.216 ppbv

RT: 10.70 min Scan# 2413

Delta R.T. -0.00 min

Lab File: VL034127.D

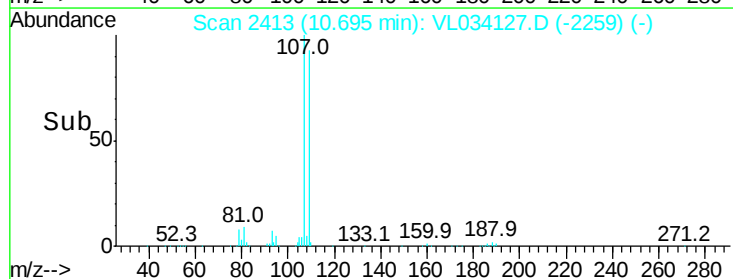
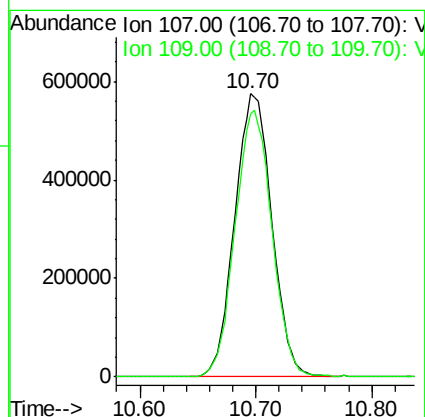
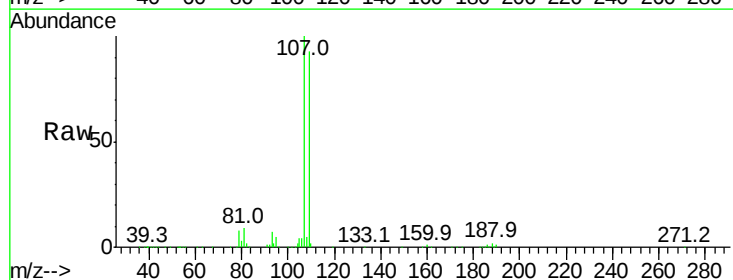
Acq: 5 Sep 2019 7:05

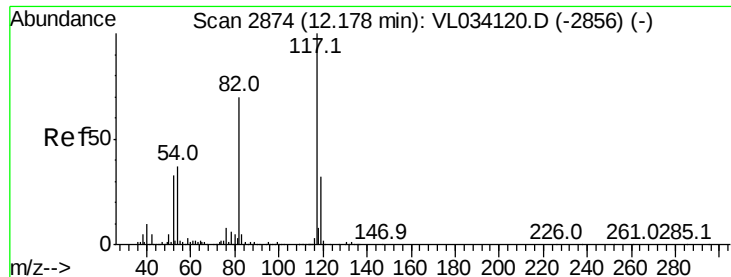
Tgt Ion: 107 Resp: 1278816

Ion Ratio Lower Upper

107 100

109 92.6 74.5 111.7

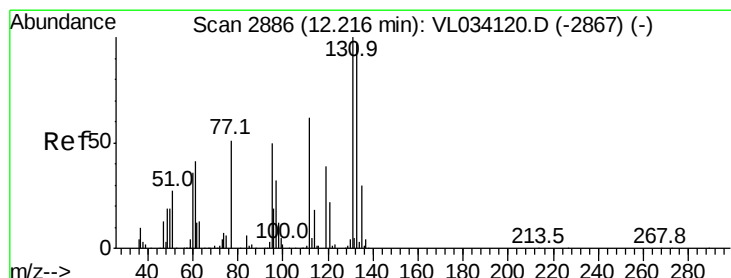
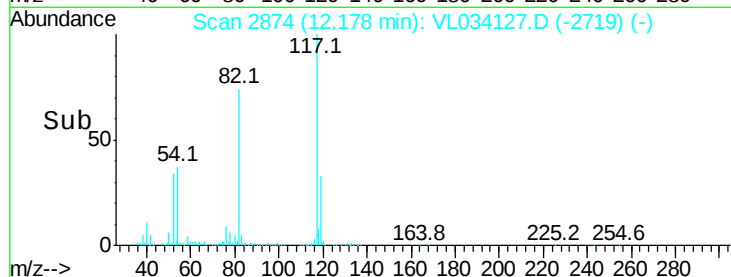
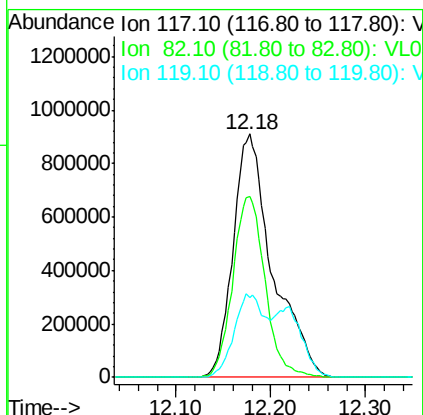
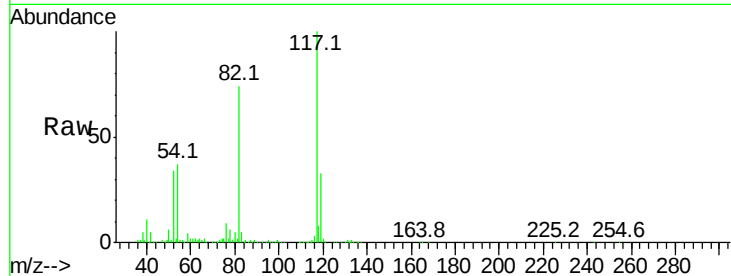




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.18 min Scan# 2874  
Delta R.T. -0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

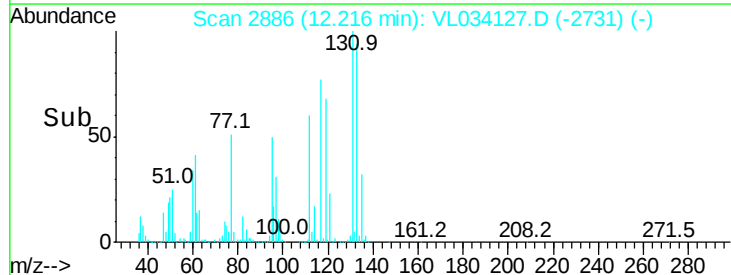
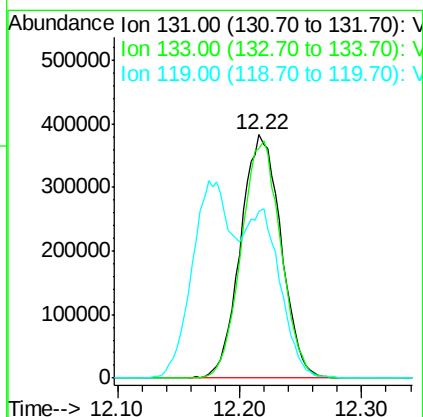
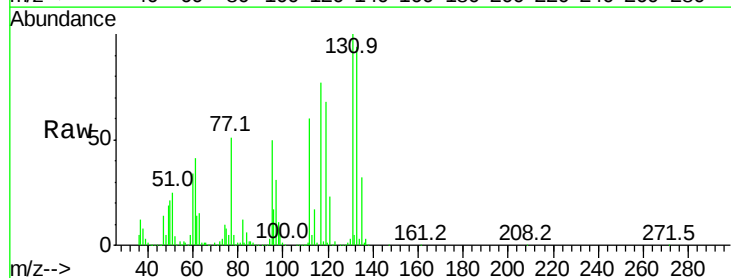
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL090519

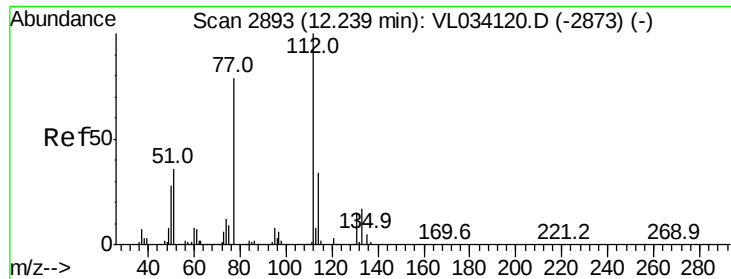
Tgt Ion:117 Resp: 2637222  
Ion Ratio Lower Upper  
117 100  
82 61.0 55.8 83.6  
119 25.8 43.1 64.7#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.749 ppbv  
RT: 12.22 min Scan# 2886  
Delta R.T. -0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

Tgt Ion:131 Resp: 876496  
Ion Ratio Lower Upper  
131 100  
133 95.3 75.8 113.6  
119 64.8 114.7 172.1#





#57

Chlorobenzene

Concen: 7.233 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

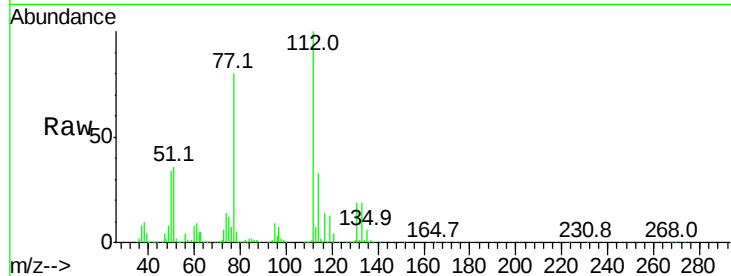
Tgt Ion:112 Resp: 1640849

Ion Ratio Lower Upper

112 100

77 80.2 64.4 96.6

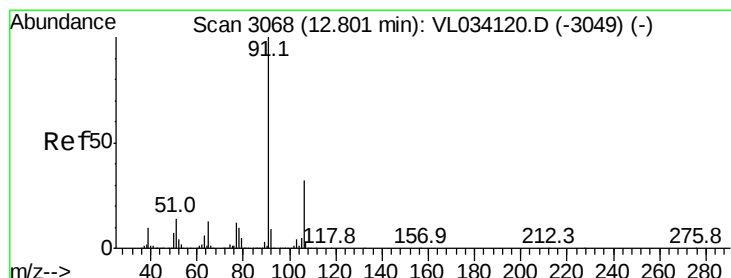
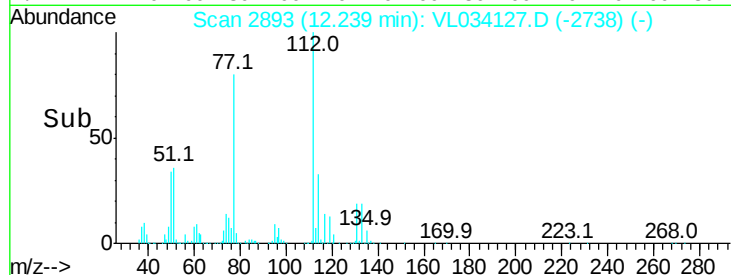
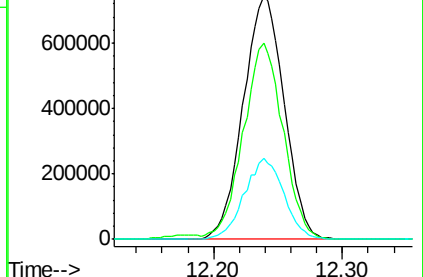
114 33.1 30.3 37.1



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: 7.436 ppbv

RT: 12.80 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VL034127.D

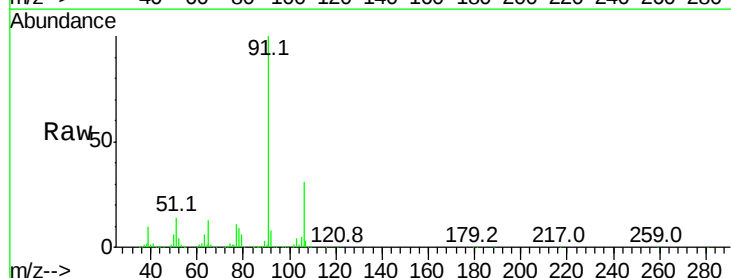
Acq: 5 Sep 2019 7:05

Tgt Ion: 91 Resp: 3215766

Ion Ratio Lower Upper

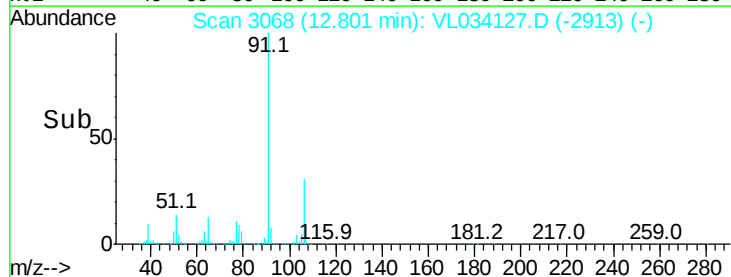
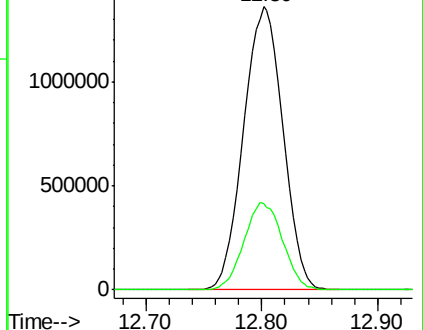
91 100

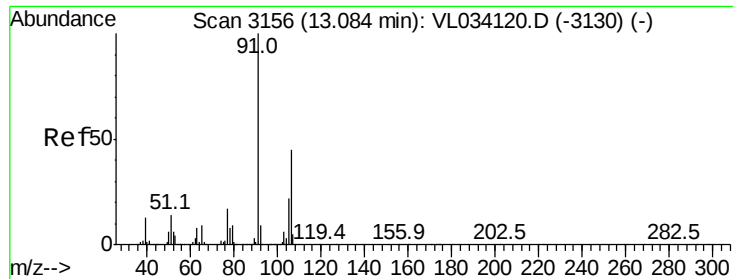
106 30.5 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 6.251 ppbv

RT: 13.09 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

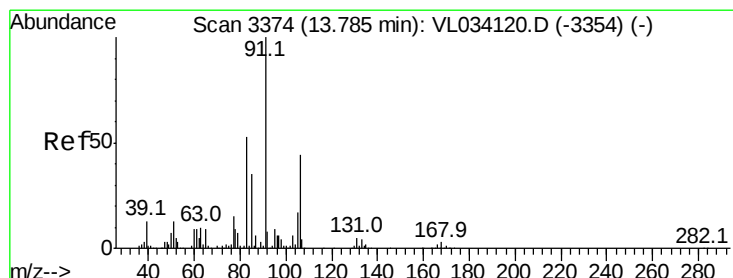
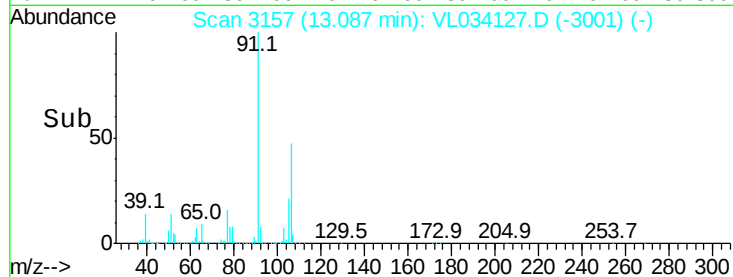
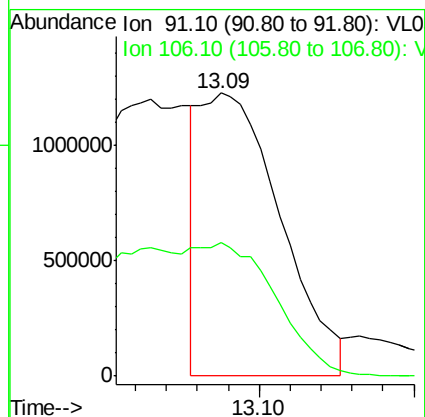
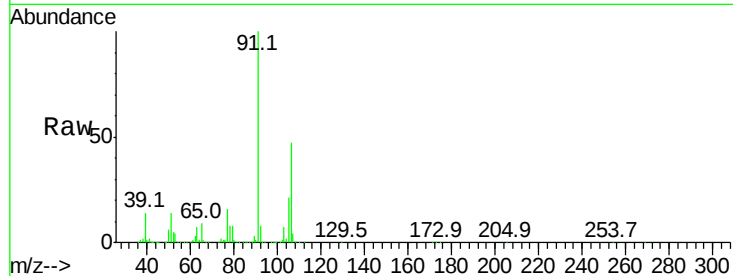
ICVVL090519

Tgt Ion: 91 Resp: 2204997

Ion Ratio Lower Upper

91 100

106 104.1 35.4 53.2#



#60

o-Xylene

Concen: 7.235 ppbv

RT: 13.79 min Scan# 3375

Delta R.T. 0.00 min

Lab File: VL034127.D

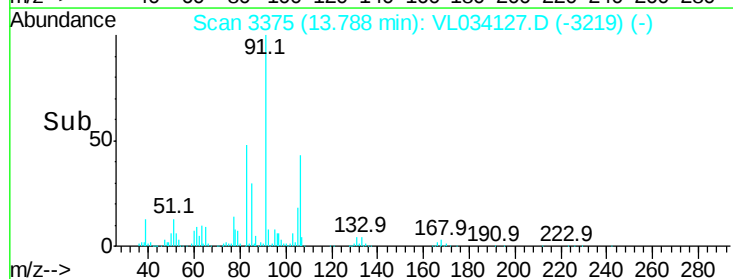
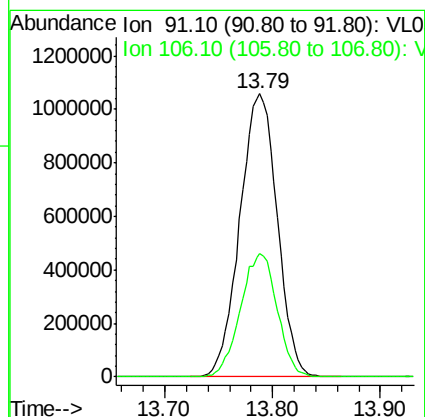
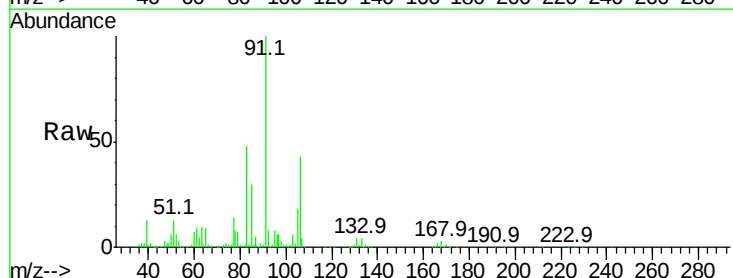
Acq: 5 Sep 2019 7:05

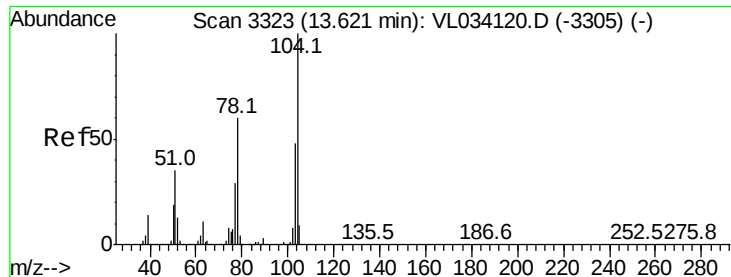
Tgt Ion: 91 Resp: 2542226

Ion Ratio Lower Upper

91 100

106 42.7 21.4 64.3





#61

Styrene

Concen: 7.374 ppbv

RT: 13.62 min Scan# 3323

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

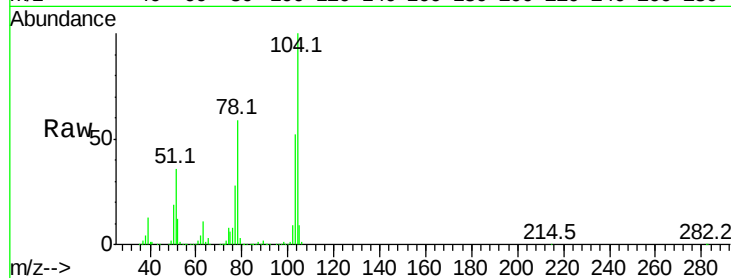
Tgt Ion:104 Resp: 1937963

Ion Ratio Lower Upper

104 100

78 58.9 47.8 71.6

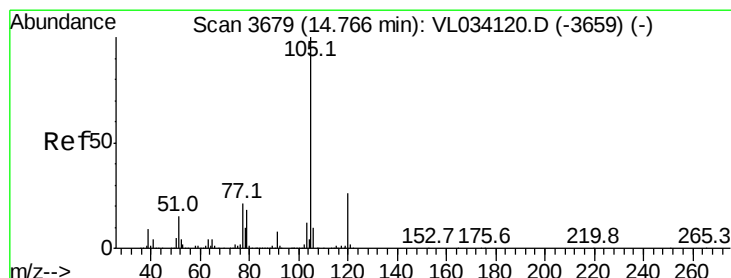
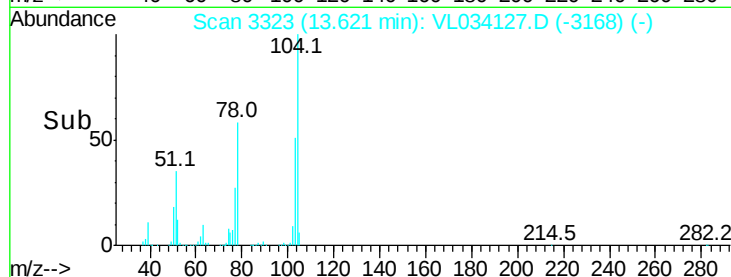
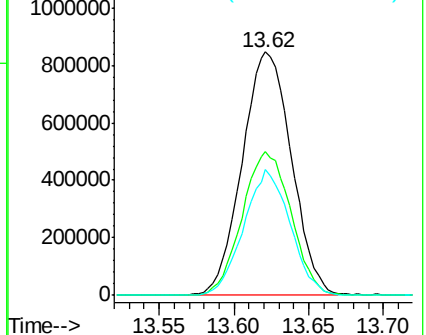
103 48.8 38.7 58.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.295 ppbv

RT: 14.76 min Scan# 3678

Delta R.T. -0.00 min

Lab File: VL034127.D

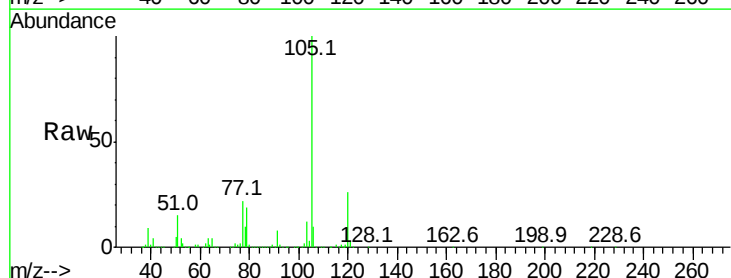
Acq: 5 Sep 2019 7:05

Tgt Ion:105 Resp: 3335027

Ion Ratio Lower Upper

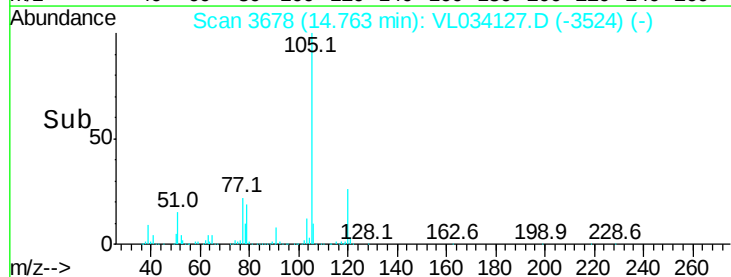
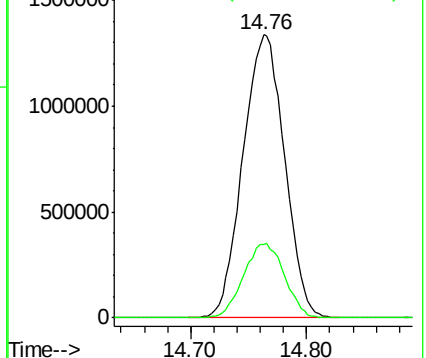
105 100

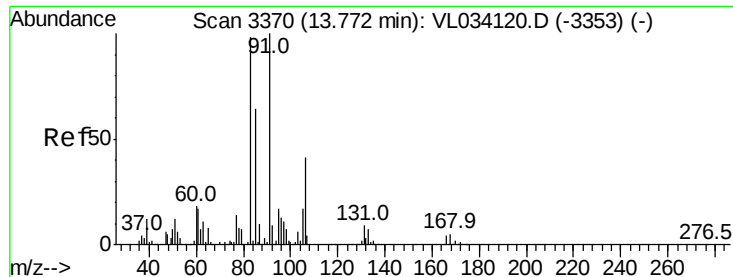
120 25.8 20.6 31.0



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: 6.524 ppbv

RT: 13.77 min Scan# 3370

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

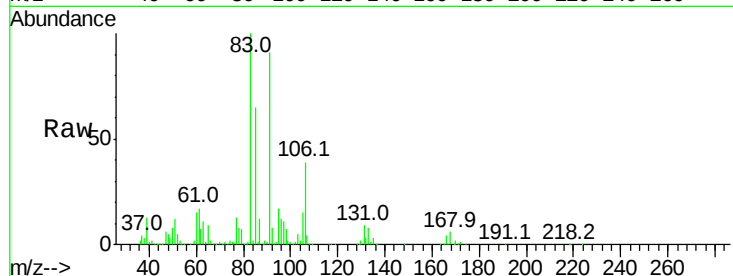
Tgt Ion: 83 Resp: 1868090

Ion Ratio Lower Upper

83 100

131 8.3 4.3 12.8

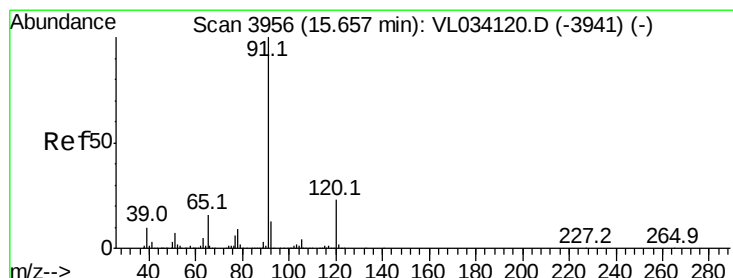
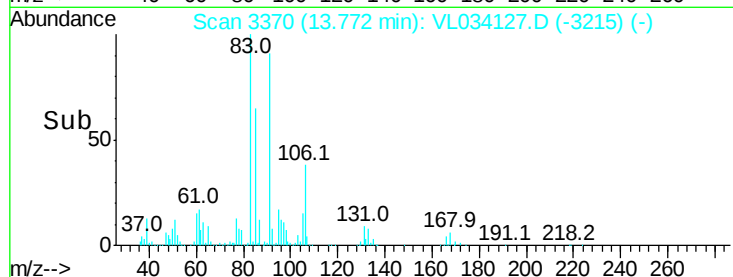
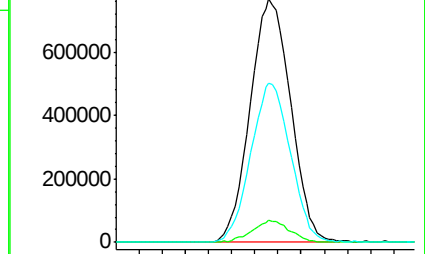
85 64.3 32.5 97.5



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.776 ppbv

RT: 15.66 min Scan# 3957

Delta R.T. 0.00 min

Lab File: VL034127.D

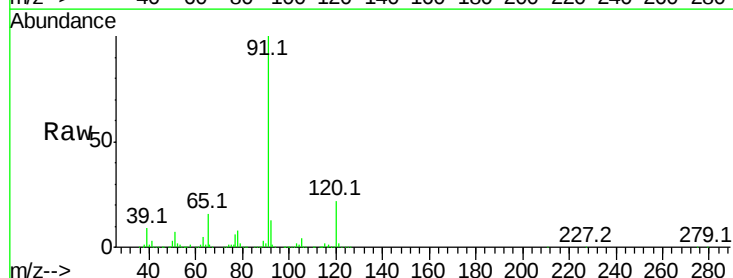
Acq: 5 Sep 2019 7:05

Tgt Ion: 120 Resp: 890541

Ion Ratio Lower Upper

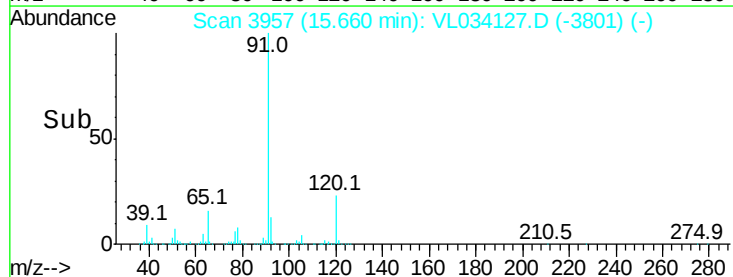
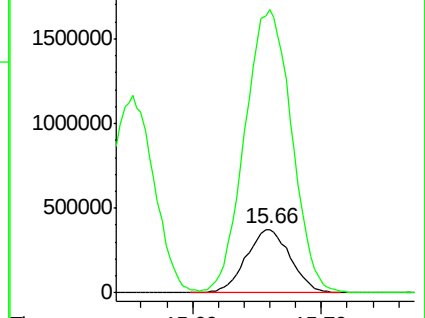
120 100

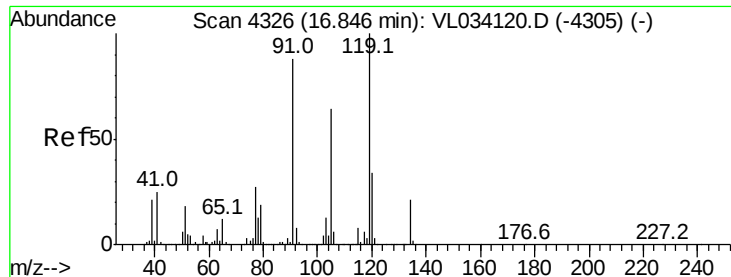
91 475.3 376.8 565.2



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

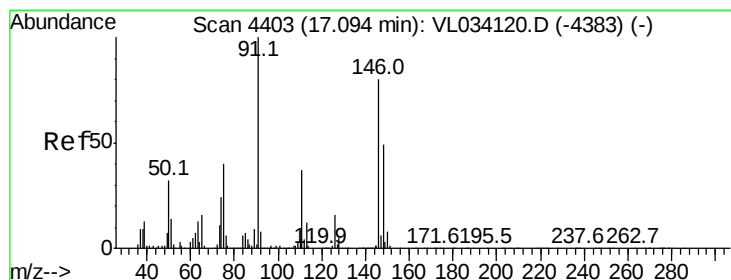
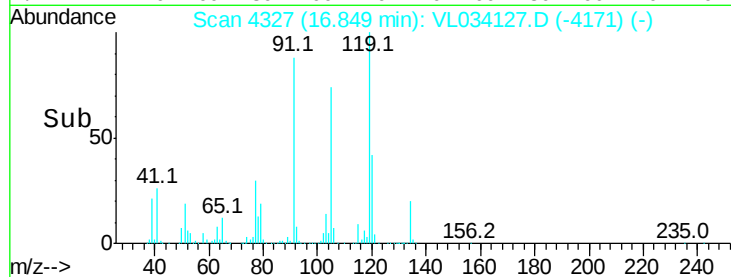
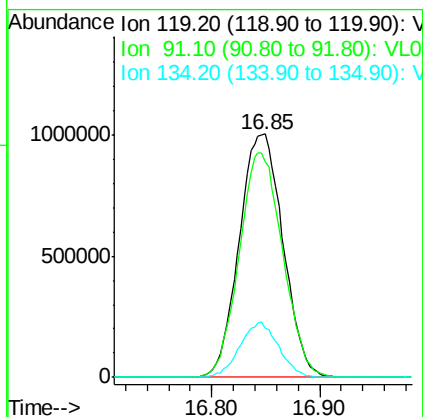
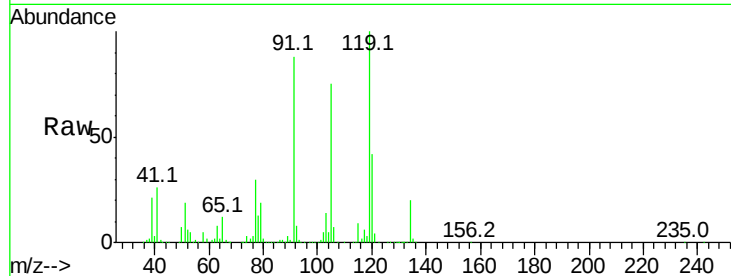




#65  
 tert-Butylbenzene  
 Concen: 7.168 ppbv  
 RT: 16.85 min Scan# 4327  
 Delta R.T. 0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

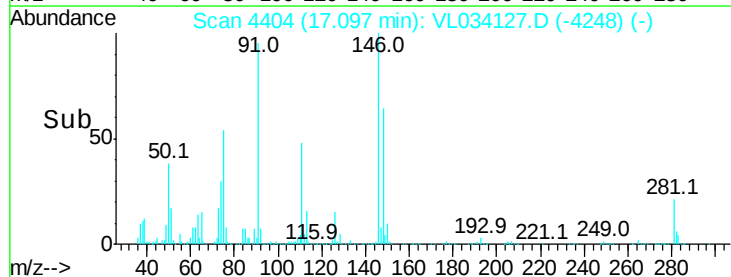
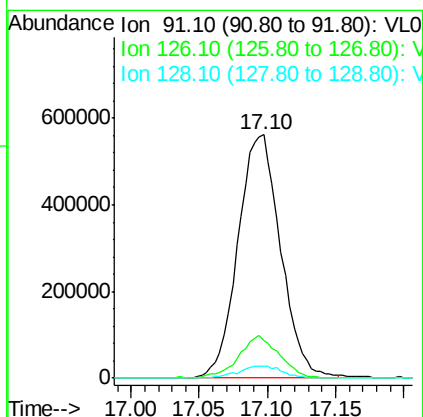
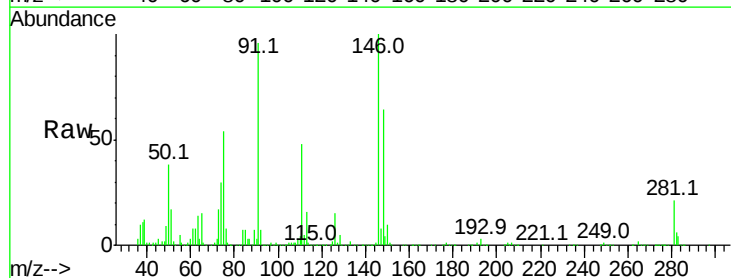
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL090519

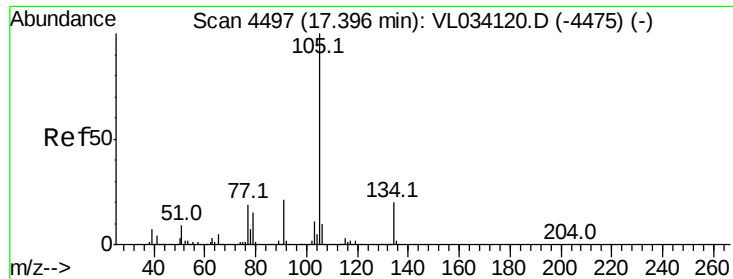
Tgt Ion: 119 Resp: 2828223  
 Ion Ratio Lower Upper  
 119 100  
 91 91.9 72.8 109.2  
 134 20.2 15.8 23.8



#66  
 Benzyl Chloride  
 Concen: 8.313 ppbv  
 RT: 17.10 min Scan# 4404  
 Delta R.T. 0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

Tgt Ion: 91 Resp: 1209294  
 Ion Ratio Lower Upper  
 91 100  
 126 16.9 13.7 20.5  
 128 5.1 4.2 6.4

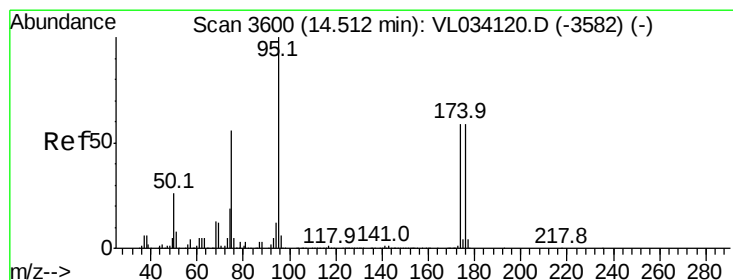
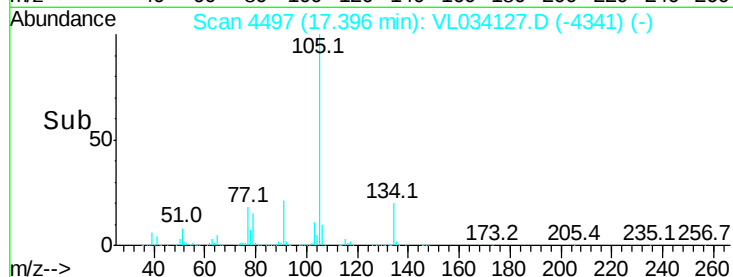
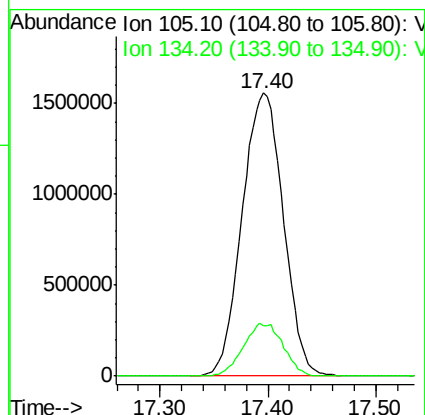
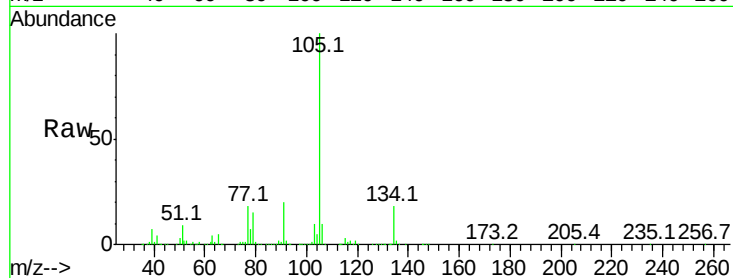




#67  
 sec-Butylbenzene  
 Concen: 7.260 ppbv  
 RT: 17.40 min Scan# 4497  
 Delta R.T. 0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

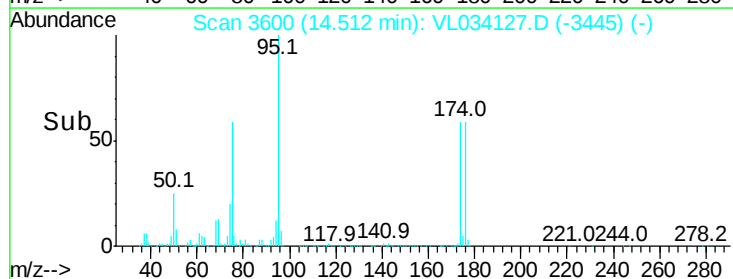
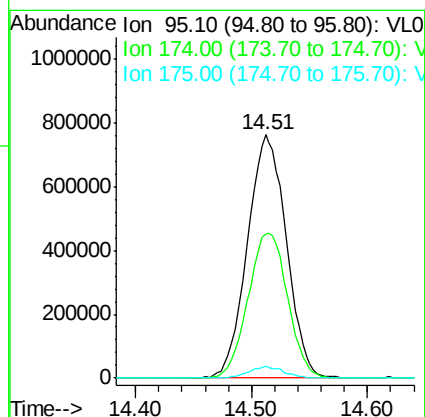
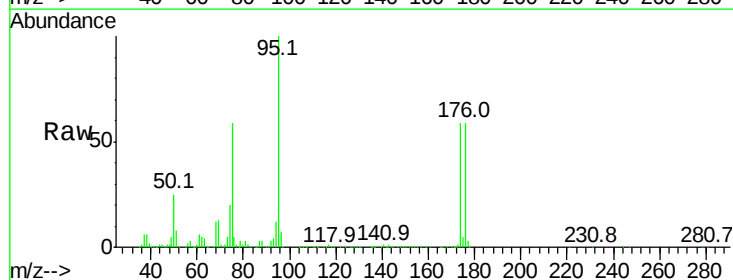
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL090519

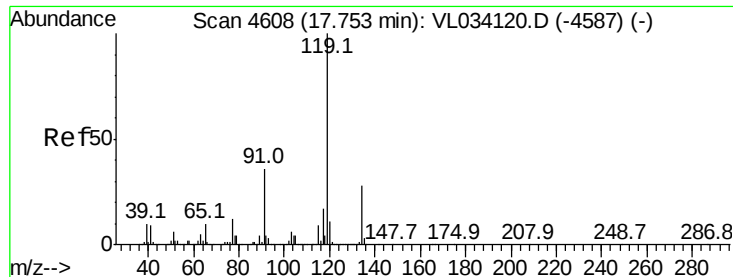
Tgt Ion: 105 Resp: 4118908  
 Ion Ratio Lower Upper  
 105 100  
 134 18.1 15.0 22.4



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 8.240 ppbv  
 RT: 14.51 min Scan# 3600  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

Tgt Ion: 95 Resp: 1776429  
 Ion Ratio Lower Upper  
 95 100  
 174 60.9 48.1 72.1  
 175 4.4 3.5 5.3

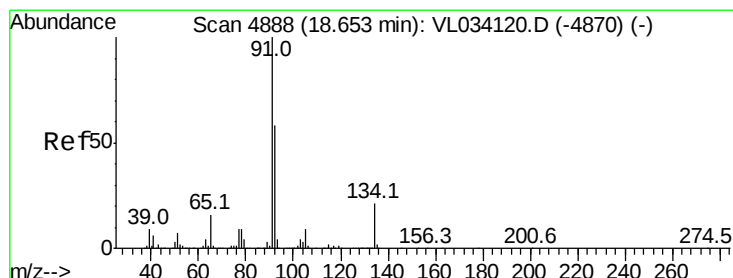
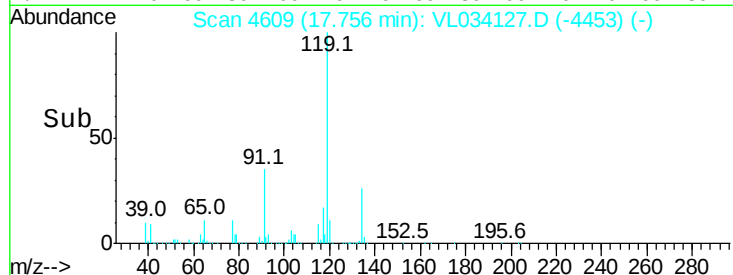
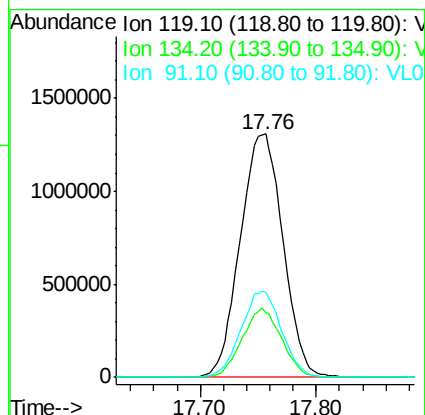
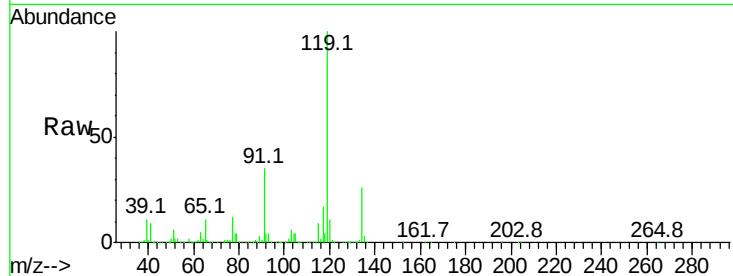




#69  
p-Isopropyltoluene  
Concen: 7.368 ppbv  
RT: 17.76 min Scan# 4609  
Delta R.T. 0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

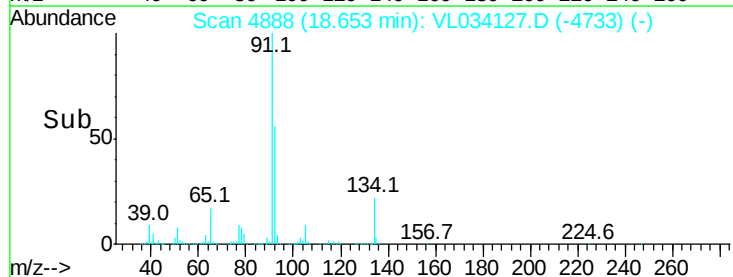
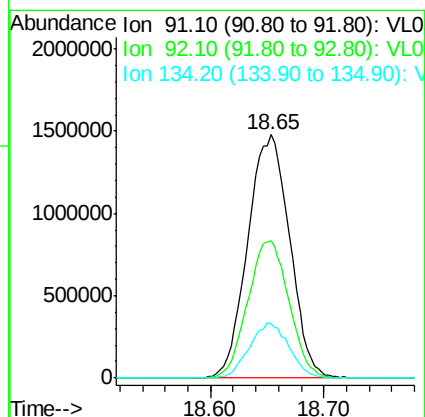
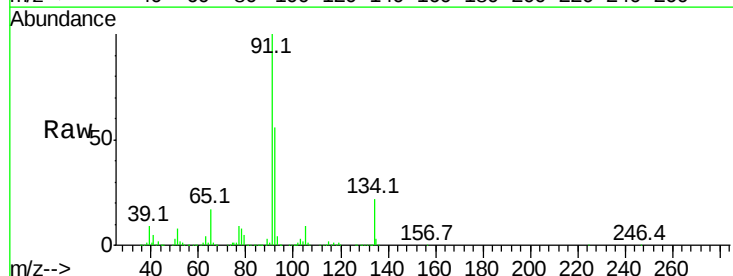
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL090519

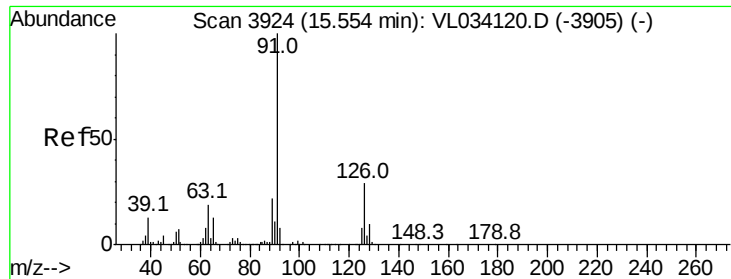
Tgt Ion: 119 Resp: 3344608  
Ion Ratio Lower Upper  
119 100  
134 26.3 20.8 31.2  
91 33.9 27.2 40.8



#70  
n-Butylbenzene  
Concen: 7.354 ppbv  
RT: 18.65 min Scan# 4888  
Delta R.T. -0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

Tgt Ion: 91 Resp: 3798606  
Ion Ratio Lower Upper  
91 100  
92 55.7 45.3 67.9  
134 21.5 17.4 26.0





#71

2-Chlorotoluene

Concen: 7.446 ppbv

RT: 15.55 min Scan# 3924

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

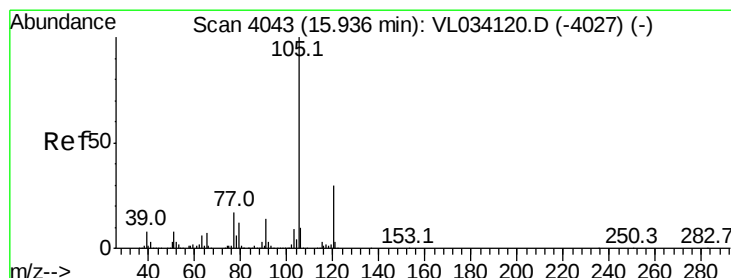
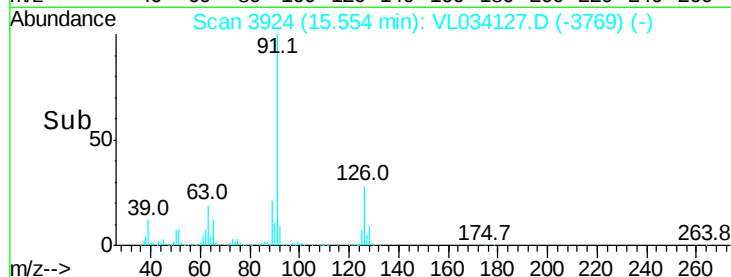
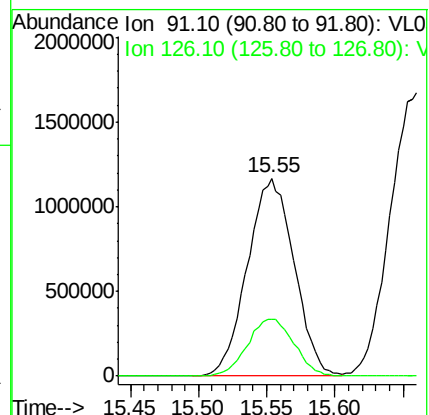
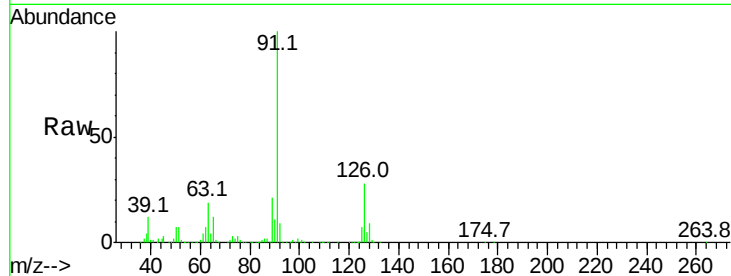
ICVVL090519

Tgt Ion: 91 Resp: 2780724

Ion Ratio Lower Upper

91 100

126 28.8 11.4 45.4



#72

4-Ethyltoluene

Concen: 7.464 ppbv

RT: 15.94 min Scan# 4044

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion: 105 Resp: 2958988

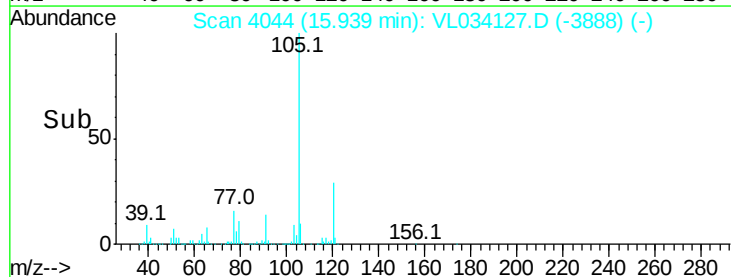
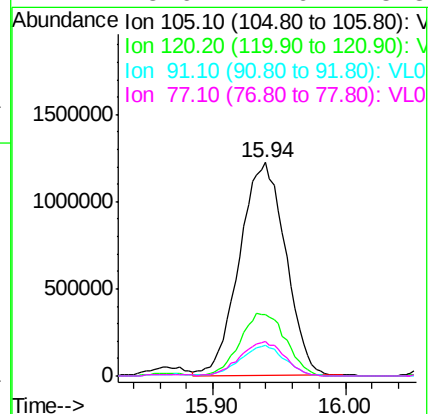
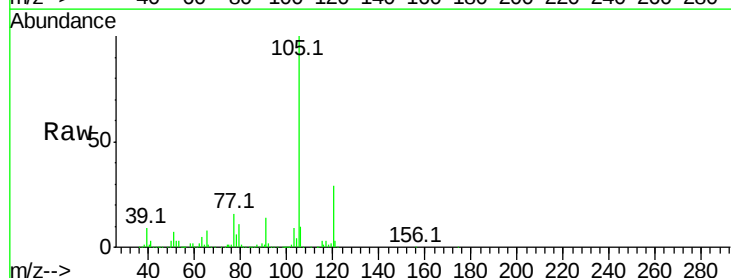
Ion Ratio Lower Upper

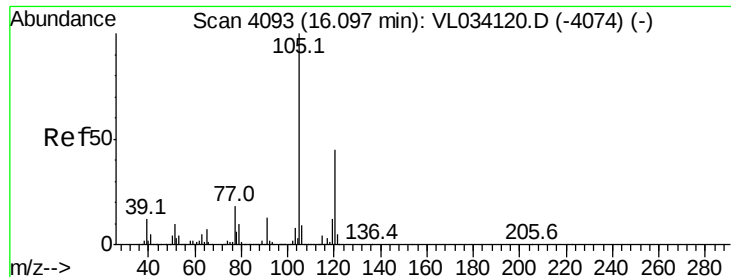
105 100

120 29.3 23.8 35.6

91 13.8 11.4 17.0

77 15.6 12.6 18.8





#73

1,3,5-Trimethylbenzene

Concen: 7.405 ppbv

RT: 16.09 min Scan# 4092

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

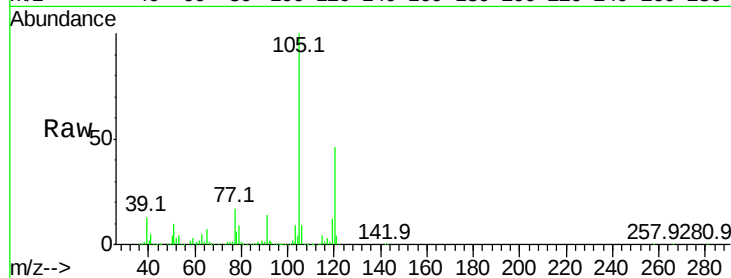
ICVVL090519

Tgt Ion:105 Resp: 2853139

Ion Ratio Lower Upper

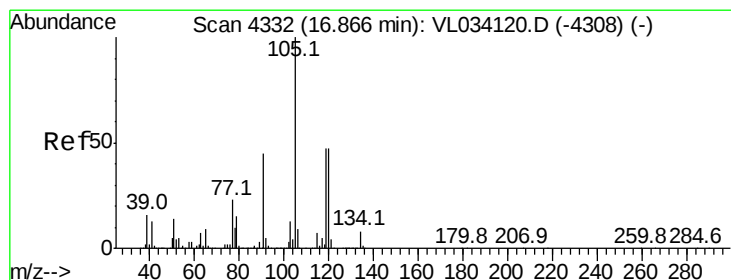
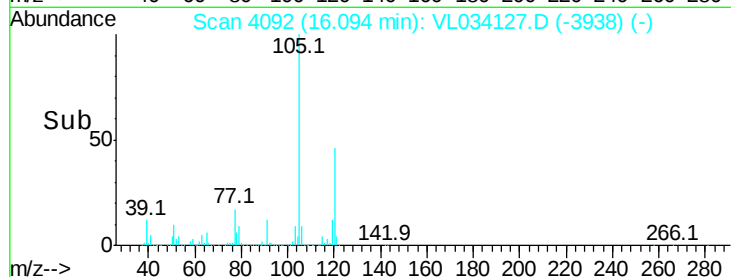
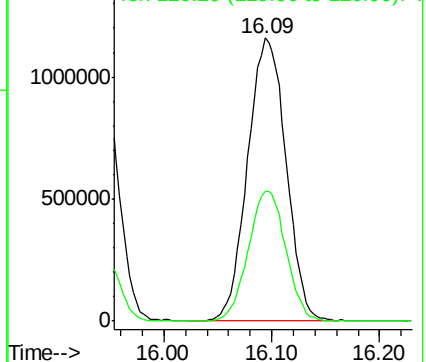
105 100

120 46.0 35.8 53.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 7.004 ppbv

RT: 16.87 min Scan# 4333

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Tgt Ion:105 Resp: 2778842

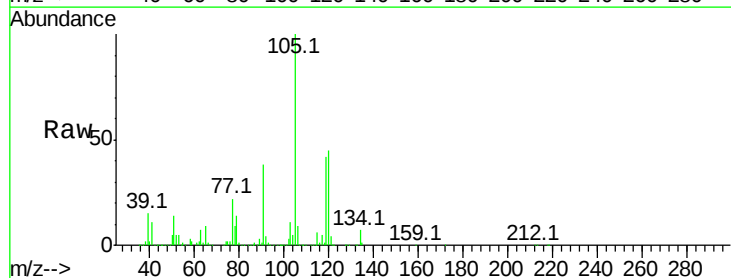
Ion Ratio Lower Upper

105 100

120 44.6 37.7 56.5

91 37.4 36.2 54.2

77 22.1 18.5 27.7

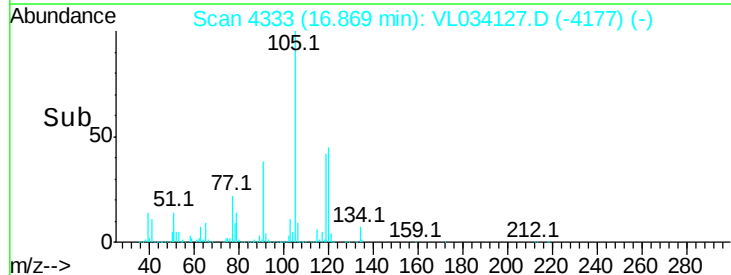
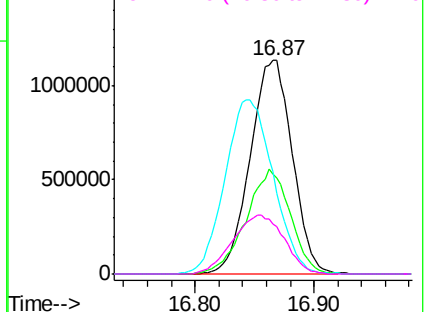


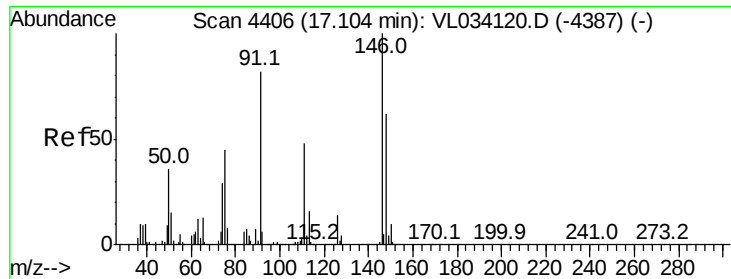
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 7.111 ppbv

RT: 17.10 min Scan# 4406

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

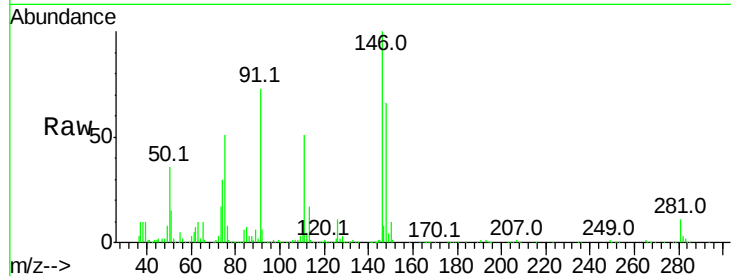
Tgt Ion:146 Resp: 1494902

Ion Ratio Lower Upper

146 100

111 50.3 24.9 74.7

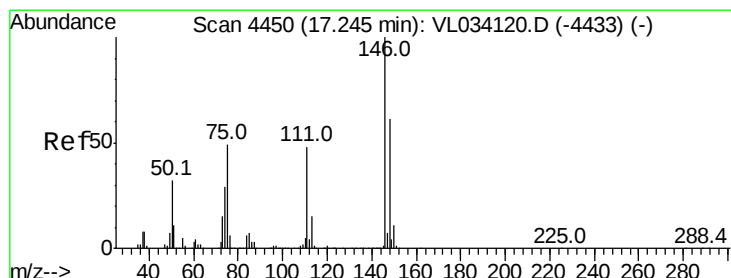
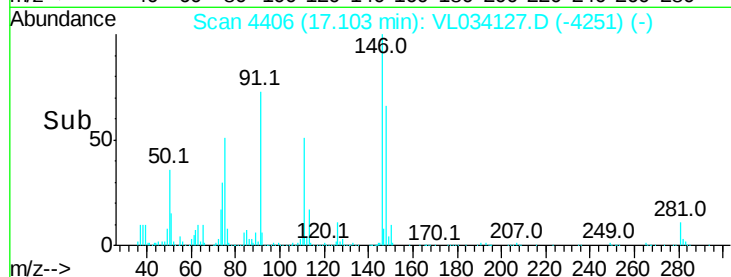
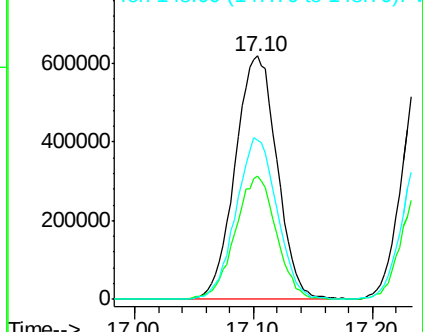
148 65.8 32.5 97.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 7.176 ppbv

RT: 17.24 min Scan# 4450

Delta R.T. -0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

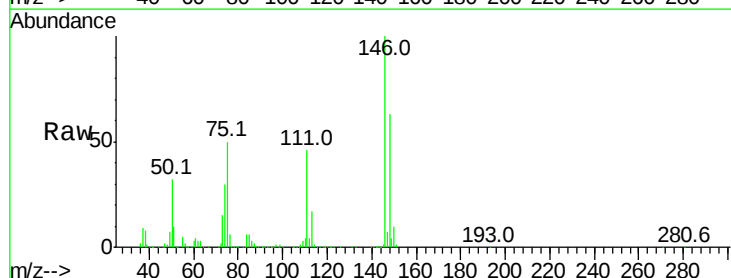
Tgt Ion:146 Resp: 1580993

Ion Ratio Lower Upper

146 100

111 48.3 24.3 72.8

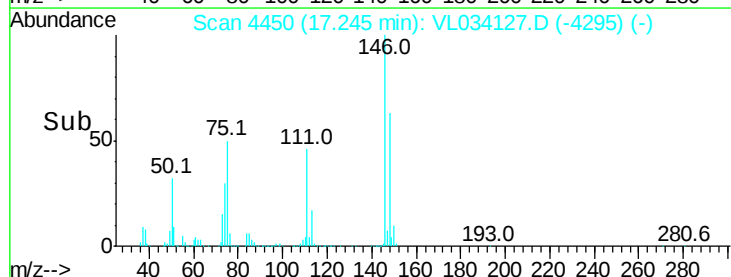
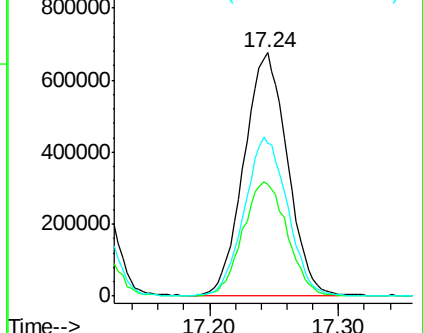
148 65.5 32.6 98.0

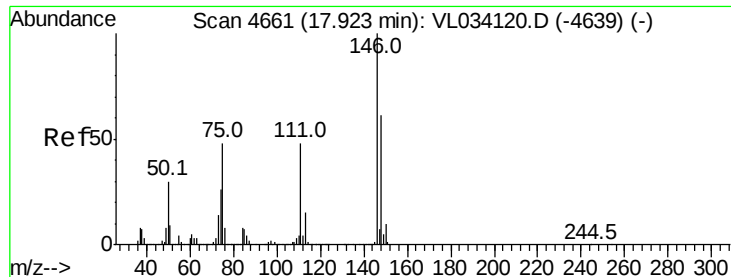


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

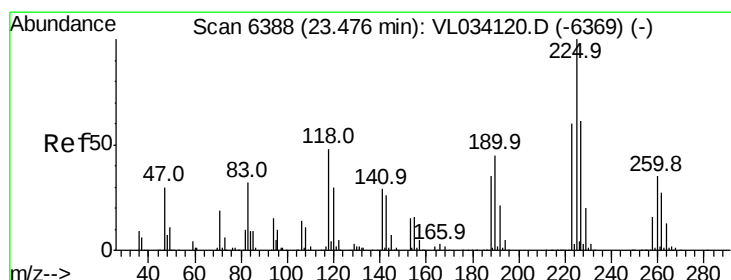
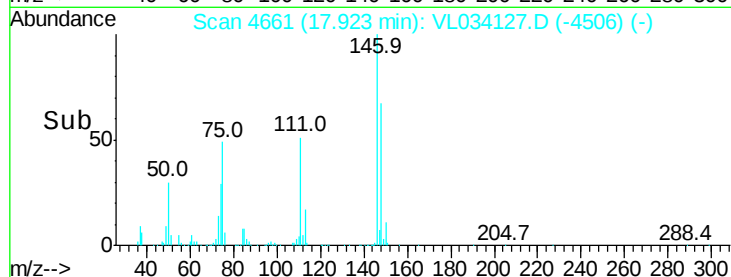
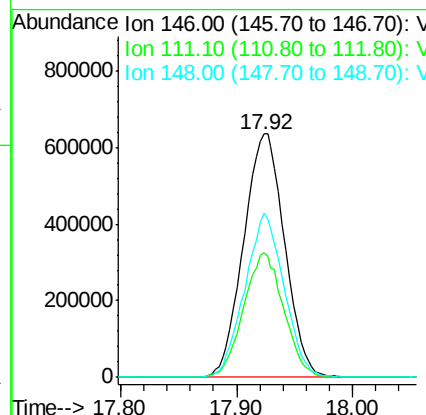
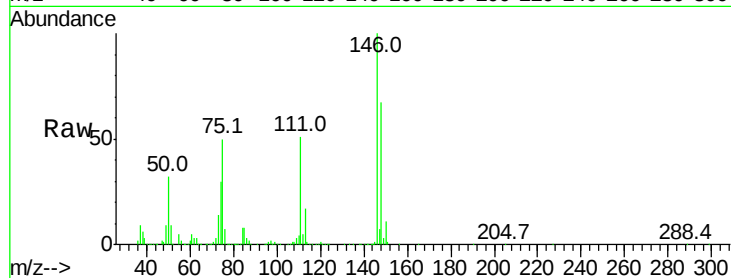




#77  
 1,2-Dichlorobenzene  
 Concen: 7.253 ppbv  
 RT: 17.92 min Scan# 4661  
 Delta R.T. -0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

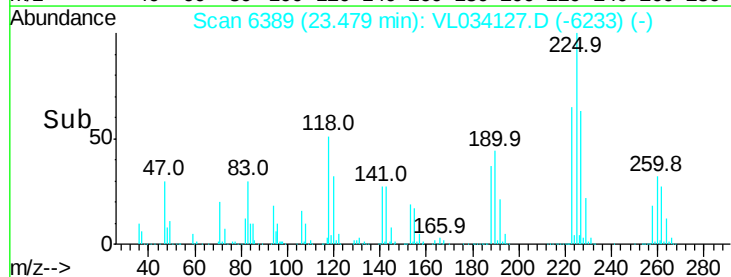
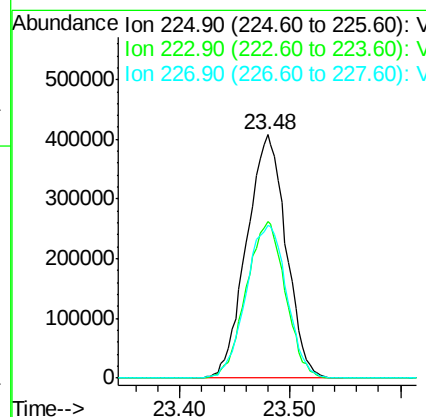
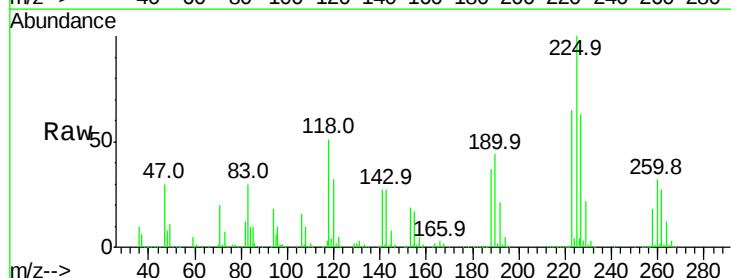
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL090519

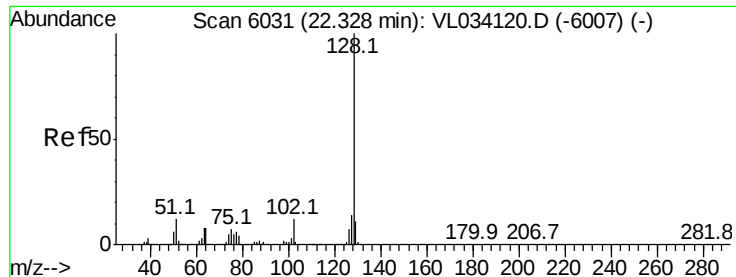
Tgt Ion:146 Resp: 1561001  
 Ion Ratio Lower Upper  
 146 100  
 111 50.1 25.1 75.4  
 148 64.7 32.0 96.2



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 6.886 ppbv  
 RT: 23.48 min Scan# 6389  
 Delta R.T. 0.00 min  
 Lab File: VL034127.D  
 Acq: 5 Sep 2019 7:05

Tgt Ion:225 Resp: 1010981  
 Ion Ratio Lower Upper  
 225 100  
 223 63.9 50.3 75.5  
 227 65.0 50.9 76.3

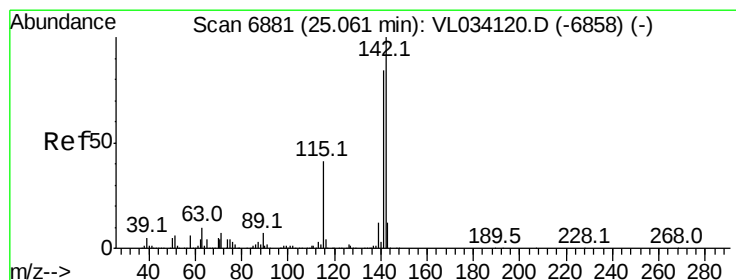
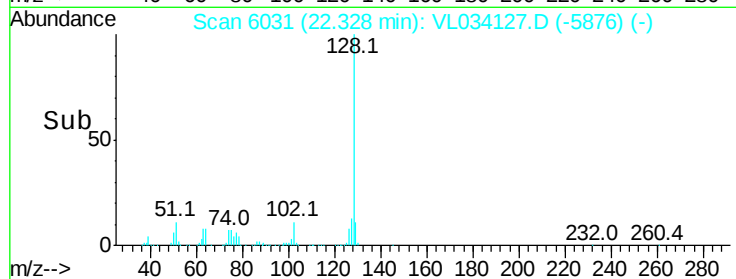
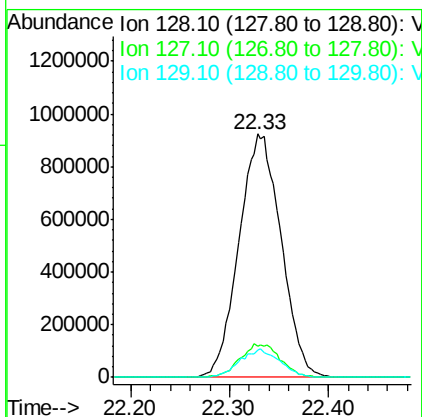
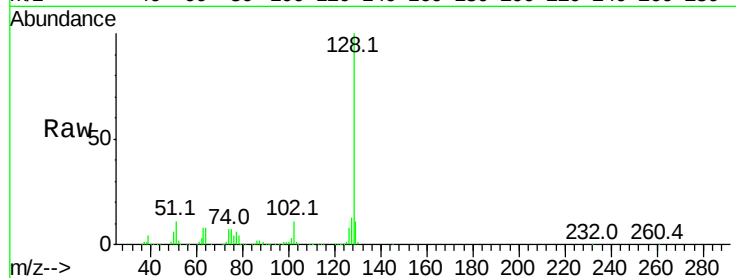




#79  
Naphthalene  
Concen: 7.581 ppbv  
RT: 22.33 min Scan# 6031  
Delta R.T. -0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

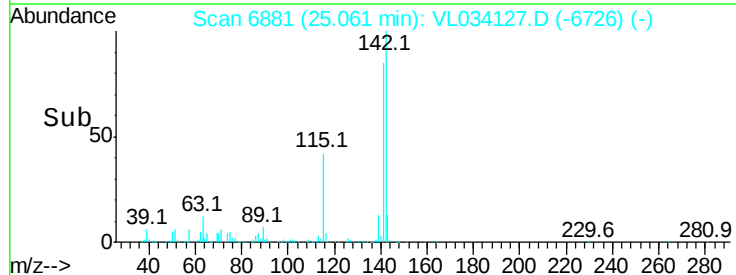
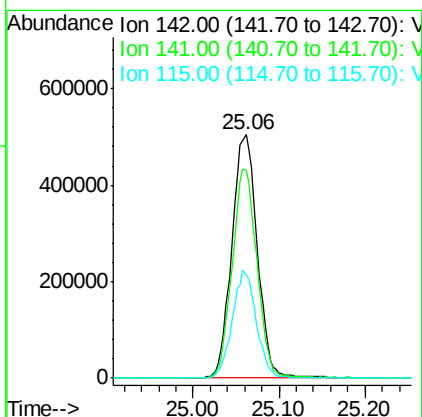
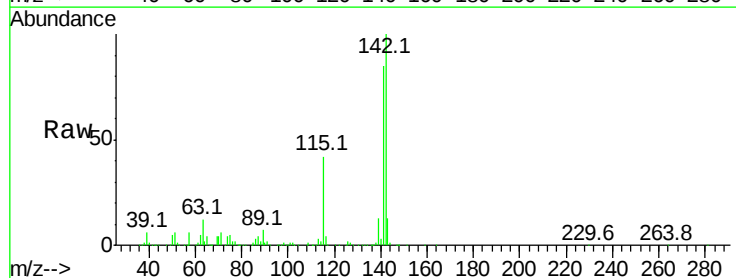
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL090519

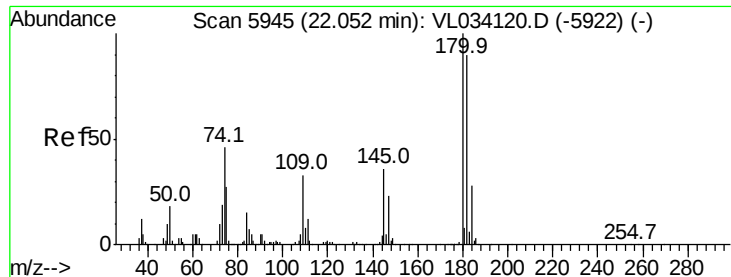
Tgt Ion:128 Resp: 2719206  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.9 16.3  
129 11.4 8.5 12.7



#80  
Naphthalene, 2-methyl-  
Concen: 8.321 ppbv  
RT: 25.06 min Scan# 6881  
Delta R.T. -0.00 min  
Lab File: VL034127.D  
Acq: 5 Sep 2019 7:05

Tgt Ion:142 Resp: 1035925  
Ion Ratio Lower Upper  
142 100  
141 84.0 67.6 101.4  
115 41.8 34.6 52.0





#81

1,2,4-Trichlorobenzene

Concen: 7.043 ppbv

RT: 22.05 min Scan# 5946

Delta R.T. 0.00 min

Lab File: VL034127.D

Acq: 5 Sep 2019 7:05

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL090519

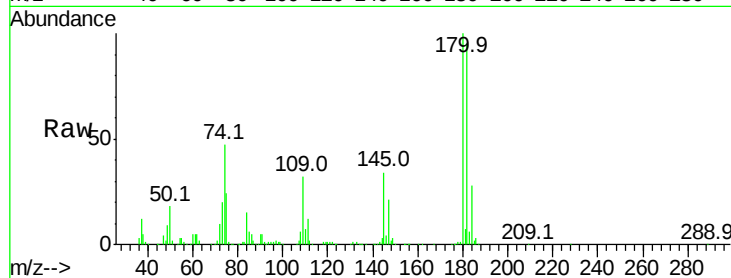
Tgt Ion:180 Resp: 1374550

Ion Ratio Lower Upper

180 100

182 96.5 77.0 115.4

184 30.6 25.5 38.3



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

