

Data File : VL032929.D  
Acq On : 7 Dec 2018 11:07  
Operator : SY/AP  
Sample : VL1207ABS01  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

Quant Time: Dec 08 01:57:29 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL120718AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Dec 07 09:35:17 2018  
QLast Update : Fri Dec 07 09:35:17 2018  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 1170835  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 3069405  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 3750918  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.59  | 95    | 2308146  | 8.33     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 83.30% |

| Target Compounds               |      |     |         |        |        | Qvalue |
|--------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.08 | 85  | 1053493 | 6.740  | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 3.02 | 51  | 890405  | 10.042 | ppbv   | 99     |
| 4) Chloromethane               | 3.17 | 50  | 477511  | 9.250  | ppbv   | 99     |
| 5) Vinyl Chloride              | 3.29 | 62  | 493656  | 9.398  | ppbv   | 99     |
| 6) Bromomethane                | 3.52 | 94  | 343176  | 10.446 | ppbv   | 100    |
| 7) Chloroethane                | 3.60 | 64  | 194744  | 10.345 | ppbv   | 100    |
| 8) Dichlorotetrafluoroethane   | 3.22 | 85  | 1267175 | 9.756  | ppbv   | 99     |
| 9) Propene                     | 3.04 | 41  | 350809  | 10.005 | ppbv   | 97     |
| 10) Heptane                    | 8.25 | 43  | 1445878 | 10.978 | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 4.01 | 101 | 1461983 | 9.928  | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.56 | 101 | 1346954 | 10.721 | ppbv   | 99     |
| 13) Ethanol                    | 3.66 | 45  | 99465   | 8.239  | ppbv   | 97     |
| 14) Bromoethene                | 3.79 | 108 | 435977  | 10.452 | ppbv   | 99     |
| 15) Acetone                    | 3.90 | 43  | 906137  | 9.017  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 3.37 | 39  | 406834  | 10.204 | ppbv   | 98     |
| 17) tert-Butyl alcohol         | 4.36 | 59  | 192805  | 7.535  | ppbv # | 98     |
| 18) 1,1-Dichloroethene         | 4.36 | 96  | 531771  | 10.807 | ppbv   | 98     |
| 19) Isopropyl Alcohol          | 4.03 | 45  | 693972  | 10.996 | ppbv   | 99     |
| 20) Methylene Chloride         | 4.41 | 84  | 544851  | 11.093 | ppbv   | 94     |
| 21) Allyl Chloride             | 4.48 | 41  | 1001867 | 12.233 | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene   | 4.97 | 96  | 594750  | 9.739  | ppbv   | 95     |
| 23) Vinyl Acetate              | 5.16 | 43  | 1934630 | 11.370 | ppbv   | 100    |
| 24) 1,1-Dichloroethane         | 5.10 | 63  | 1590515 | 10.750 | ppbv   | 99     |
| 25) Ethyl Acetate              | 5.78 | 43  | 2288988 | 9.642  | ppbv   | 100    |
| 26) Hexane                     | 5.79 | 57  | 1062716 | 9.696  | ppbv   | 99     |
| 27) Carbon Disulfide           | 4.62 | 76  | 1471036 | 10.734 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.12 | 73  | 1969011 | 11.962 | ppbv   | 100    |
| 29) Chloroform                 | 5.86 | 83  | 1813092 | 9.271  | ppbv   | 98     |
| 30) Cyclohexane                | 7.25 | 84  | 985757  | 10.851 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene     | 5.65 | 61  | 1085143 | 10.789 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane      | 6.63 | 97  | 1901466 | 9.189  | ppbv   | 100    |
| 34) 2-Butanone                 | 5.34 | 43  | 1508262 | 11.281 | ppbv   | 100    |
| 35) Carbon Tetrachloride       | 7.14 | 117 | 2244923 | 9.305  | ppbv   | 98     |
| 36) Benzene                    | 7.01 | 78  | 2325017 | 10.299 | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.42 | 62  | 1414275 | 9.201  | ppbv   | 99     |
| 38) Trichloroethene            | 7.97 | 130 | 984298  | 10.476 | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.74 | 63  | 863505  | 10.085 | ppbv   | 96     |
| 40) 1,4-Dioxane                | 7.96 | 88  | 325014  | 10.306 | ppbv # | 97     |
| 41) Tetrahydrofuran            | 6.15 | 42  | 887339  | 10.671 | ppbv   | 100    |
| 42) Bromodichloromethane       | 7.92 | 83  | 2186371 | 10.267 | ppbv   | 100    |
| 43) Methyl Methacrylate        | 8.14 | 69  | 948214  | 11.335 | ppbv   | 99     |

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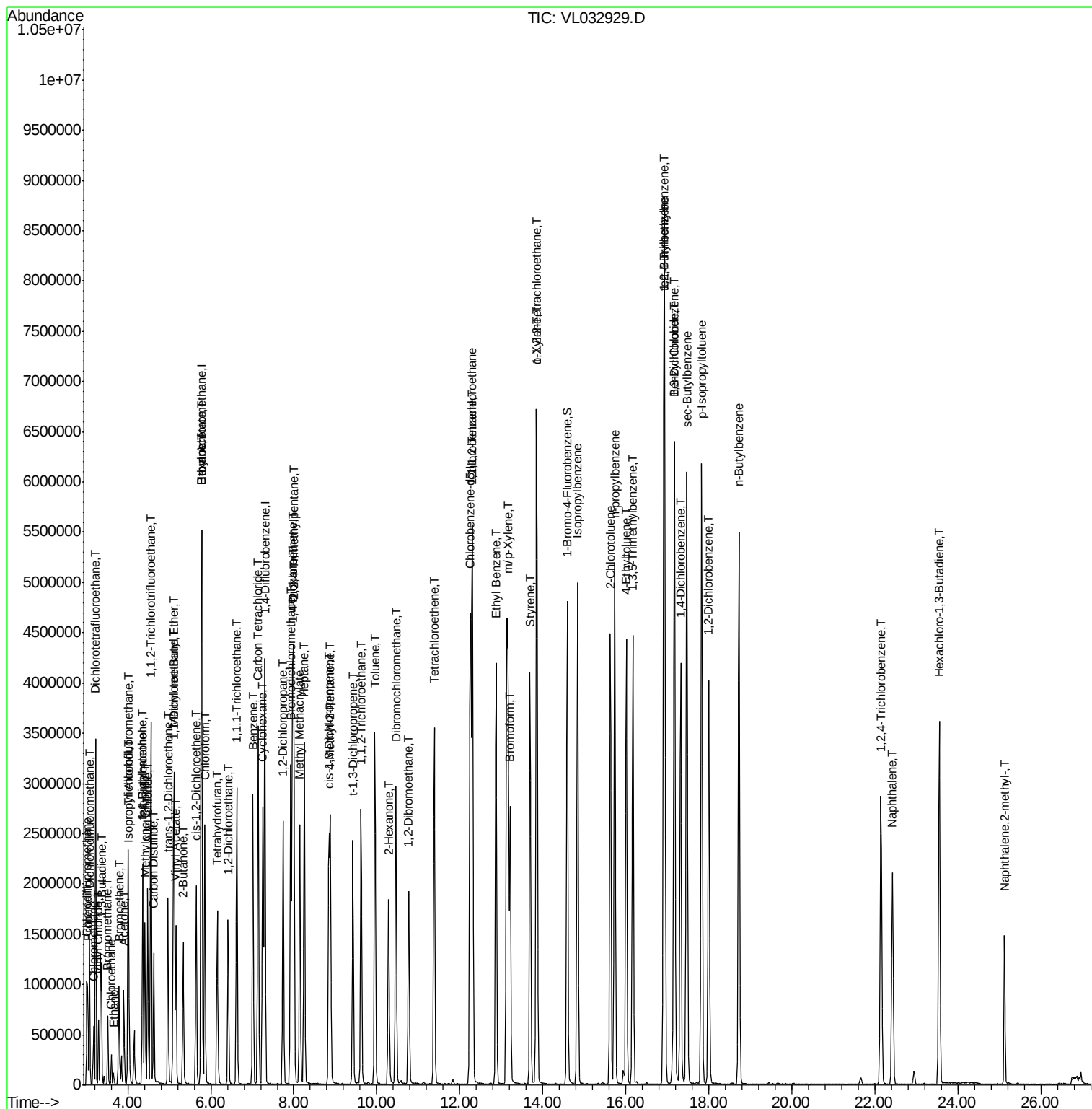
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 8.00  | 57   | 4018225  | 10.485 | ppbv   | 100      |
| 45) t-1,3-Dichloropropene     | 9.43  | 75   | 1366209  | 13.320 | ppbv   | 98       |
| 46) cis-1,3-Dichloropropene   | 8.84  | 75   | 1348708  | 10.743 | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 9.62  | 97   | 962266   | 10.211 | ppbv   | 98       |
| 48) Dibromochloromethane      | 10.46 | 129  | 1828825  | 10.345 | ppbv   | 100      |
| 49) Bromoform                 | 13.21 | 173  | 1574582  | 10.829 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.88  | 43   | 2070238  | 9.683  | ppbv   | 99       |
| 51) 2-Hexanone                | 10.28 | 43   | 1667766  | 11.502 | ppbv # | 99       |
| 52) Tetrachloroethene         | 11.38 | 164  | 847174   | 10.316 | ppbv   | 97       |
| 53) Toluene                   | 9.95  | 91   | 2765230  | 11.549 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 10.77 | 107  | 1565122  | 10.631 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 12.29 | 131  | 1328151  | 7.942  | ppbv   | 99       |
| 57) Chlorobenzene             | 12.31 | 112  | 2134596  | 7.879  | ppbv   | 97       |
| 58) Ethyl Benzene             | 12.87 | 91   | 3775633  | 9.436  | ppbv   | 98       |
| 59) m/p-Xylene                | 13.16 | 91   | 3109971  | 8.573  | ppbv # | 100      |
| 60) o-Xylene                  | 13.86 | 91   | 3176834  | 8.671  | ppbv   | 100      |
| 61) Styrene                   | 13.69 | 104  | 2432702  | 9.982  | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.84 | 105  | 4437252  | 8.681  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.84 | 83   | 2202340  | 7.742  | ppbv   | 100      |
| 64) n-propylbenzene           | 15.73 | 120  | 1204923  | 9.076  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.92 | 119  | 4319207  | 9.115  | ppbv   | 99       |
| 66) Benzyl Chloride           | 17.16 | 91   | 2549793  | 9.708  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.47 | 105  | 6069426  | 8.688  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.83 | 119  | 5010638  | 8.850  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.72 | 91   | 4648918  | 8.925  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.63 | 91   | 3489599  | 9.180  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 16.01 | 105  | 3849085  | 9.411  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 16.17 | 105  | 3474179  | 8.701  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.94 | 105  | 3944419  | 8.749  | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 17.17 | 146  | 2188778  | 8.244  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.32 | 146  | 2123045  | 8.569  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 18.00 | 146  | 2098933  | 8.465  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.55 | 225  | 922676   | 6.767  | ppbv   | 99       |
| 79) Naphthalene               | 22.42 | 128  | 2699922  | 9.275  | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 25.12 | 142  | 750528   | 12.066 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 22.14 | 180  | 1357509  | 8.793  | ppbv   | 99       |

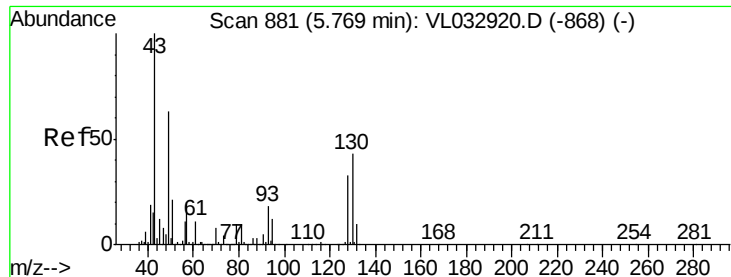
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

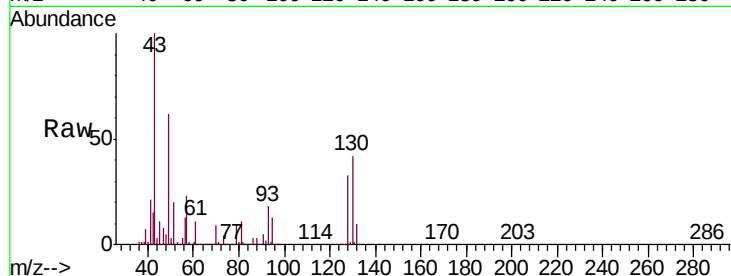
Tgt Ion: 49 Resp: 1170835

Ion Ratio Lower Upper

49 100

128 51.5 26.3 78.8

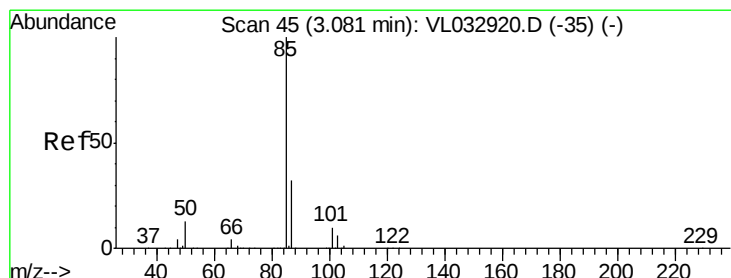
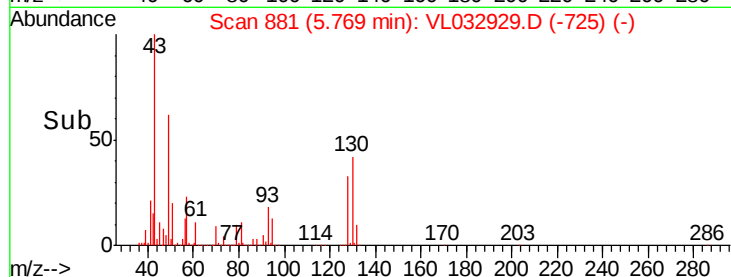
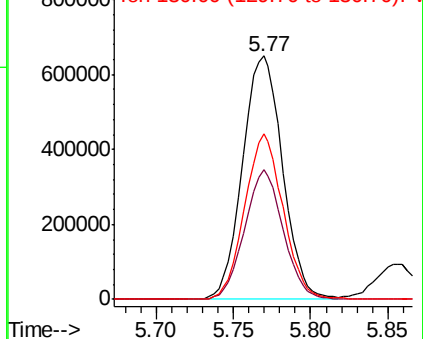
130 65.4 33.9 101.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 6.740 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032929.D

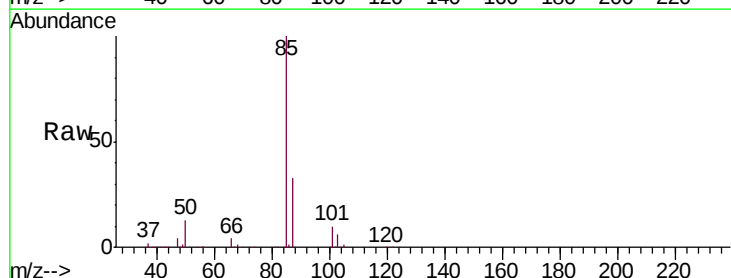
Acq: 7 Dec 2018 11:07

Tgt Ion: 85 Resp: 1053493

Ion Ratio Lower Upper

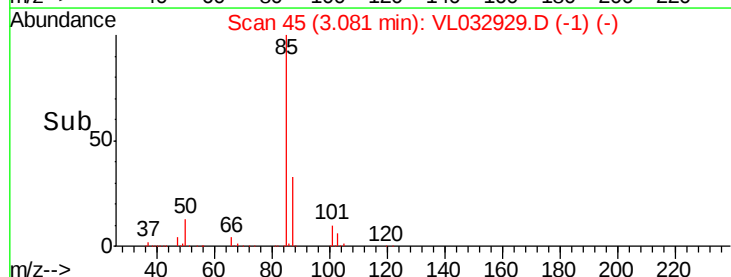
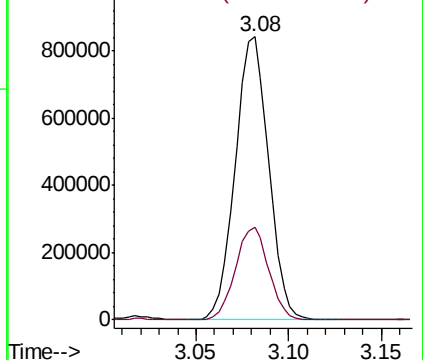
85 100

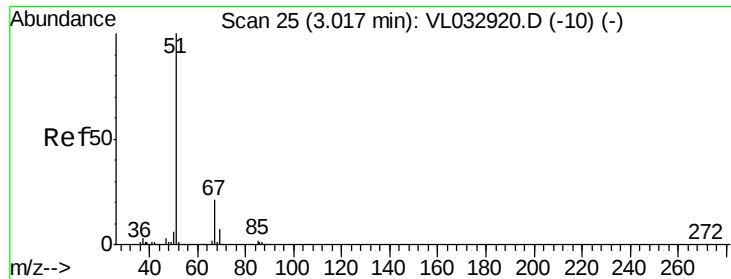
87 32.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.042 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

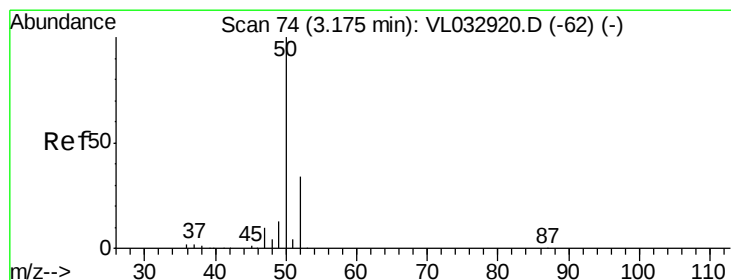
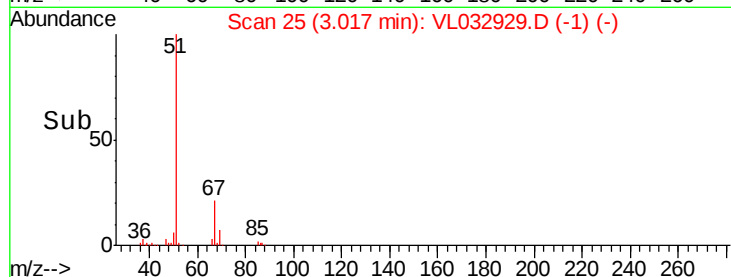
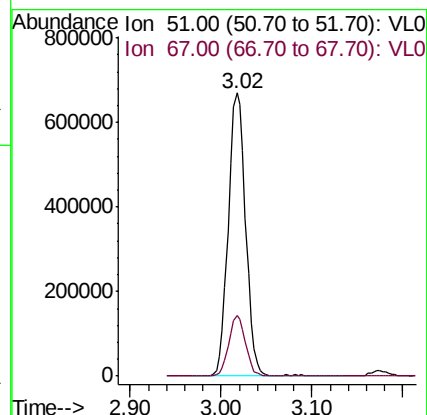
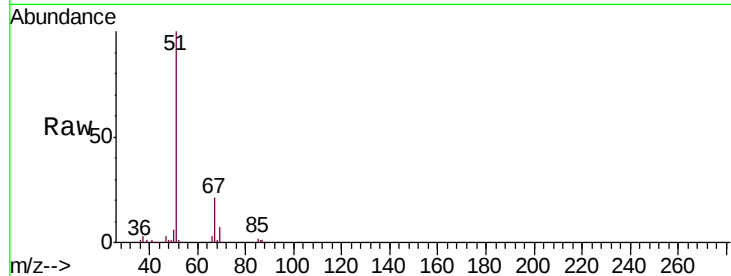
VL1207ABS01

Tgt Ion: 51 Resp: 890405

Ion Ratio Lower Upper

51 100

67 20.8 16.8 25.2



#4

Chloromethane

Concen: 9.250 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032929.D

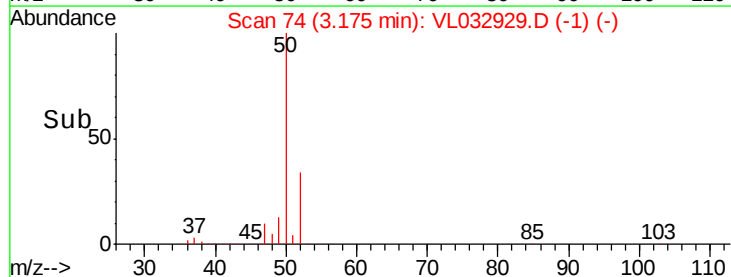
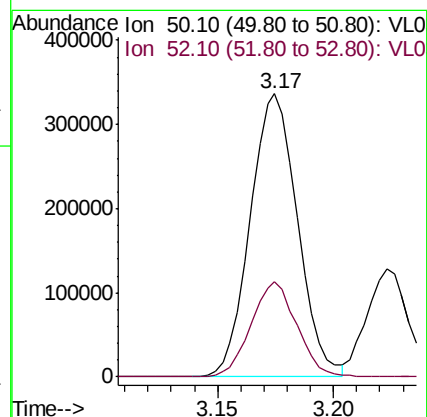
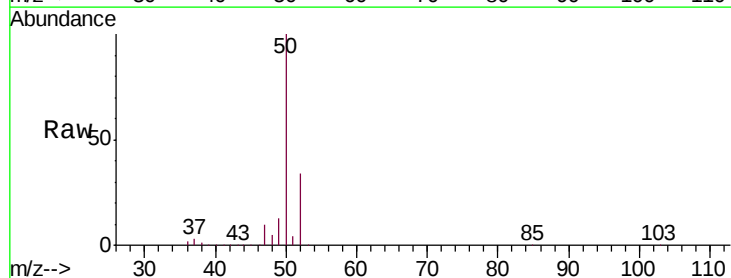
Acq: 7 Dec 2018 11:07

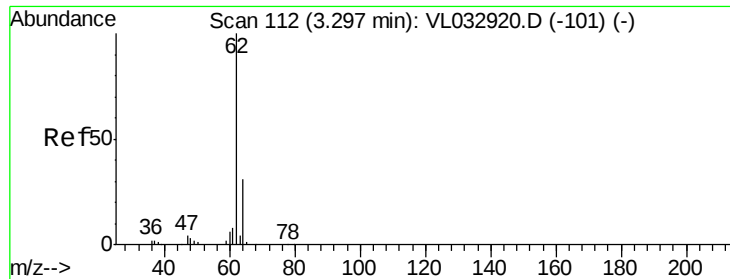
Tgt Ion: 50 Resp: 477511

Ion Ratio Lower Upper

50 100

52 33.8 27.3 40.9





#5

Vinyl Chloride

Concen: 9.398 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

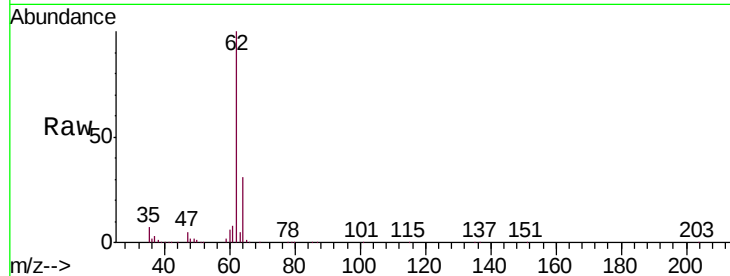
VL1207ABS01

Tgt Ion: 62 Resp: 493656

Ion Ratio Lower Upper

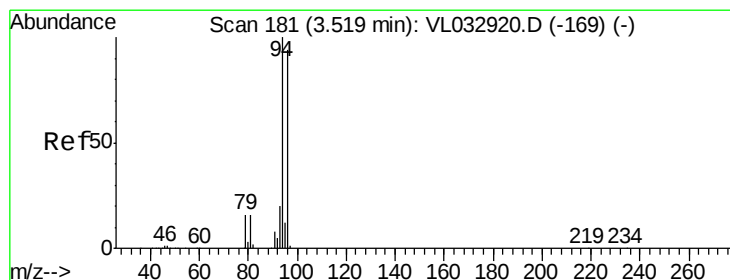
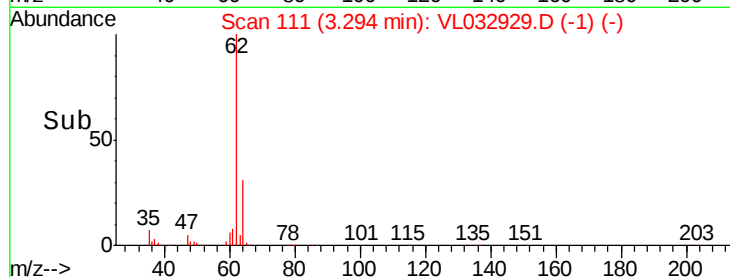
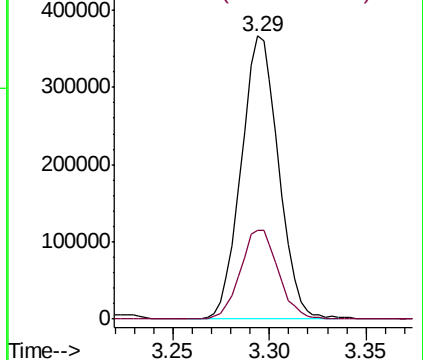
62 100

64 31.4 24.8 37.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.446 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032929.D

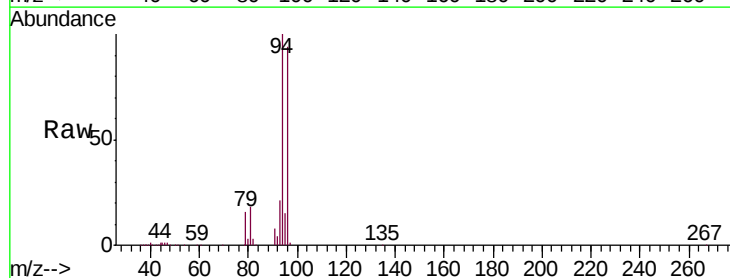
Acq: 7 Dec 2018 11:07

Tgt Ion: 94 Resp: 343176

Ion Ratio Lower Upper

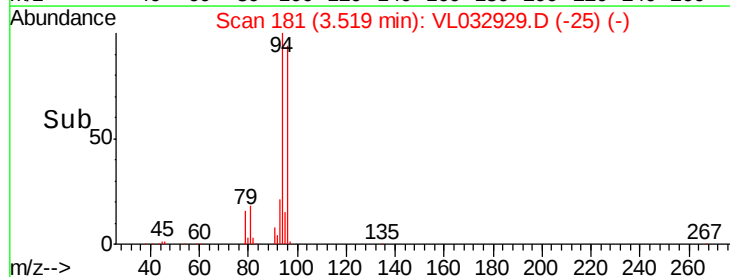
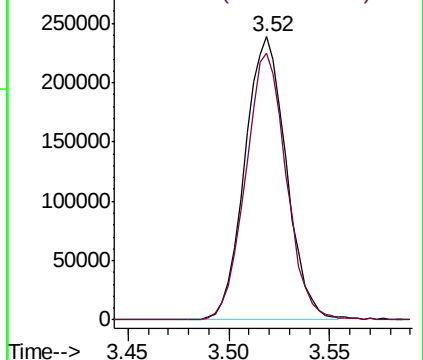
94 100

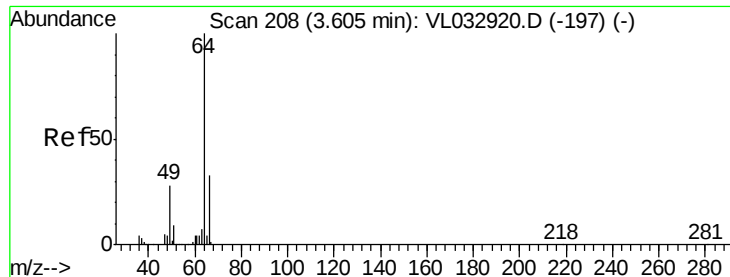
96 94.3 75.5 113.3



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.345 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

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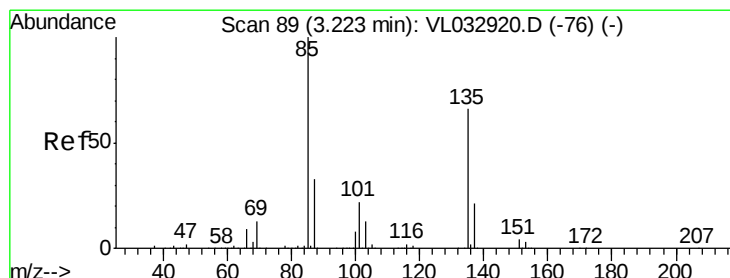
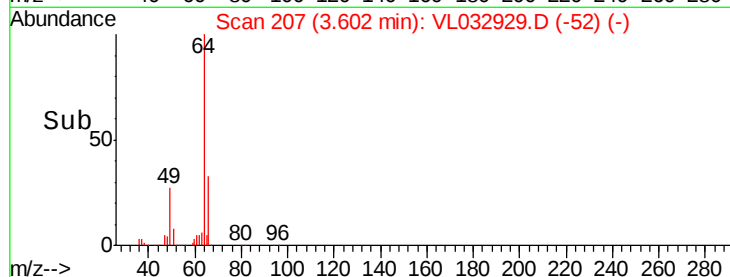
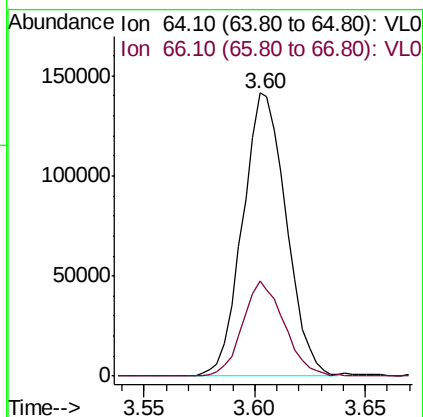
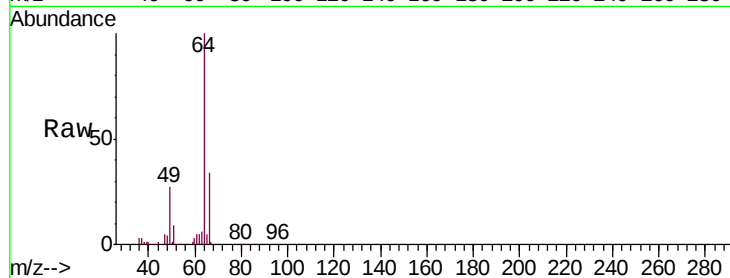
VL1207ABS01

Tgt Ion: 64 Resp: 194744

Ion Ratio Lower Upper

64 100

66 33.5 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 9.756 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL032929.D

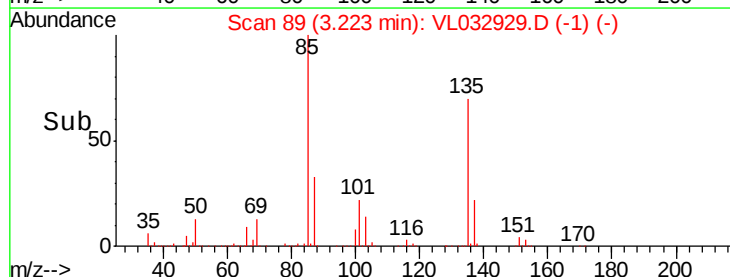
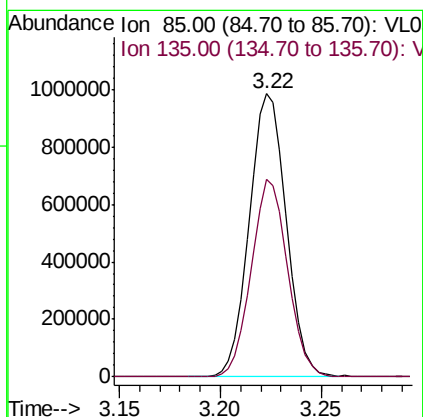
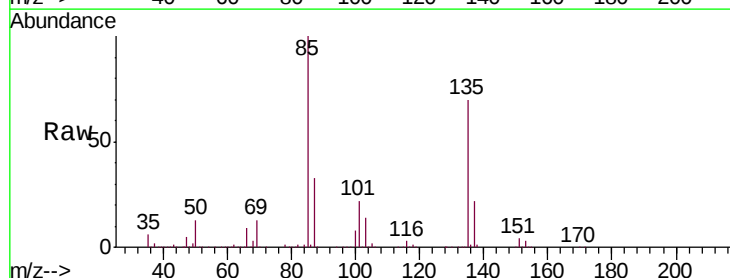
Acq: 7 Dec 2018 11:07

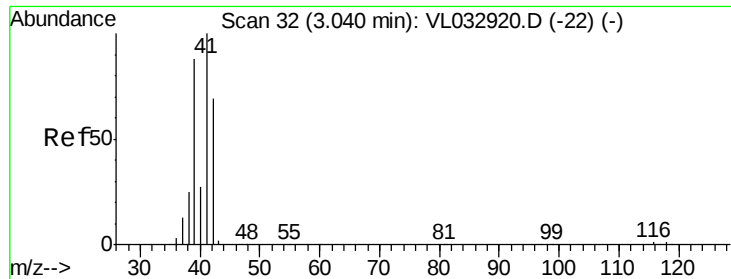
Tgt Ion: 85 Resp: 1267175

Ion Ratio Lower Upper

85 100

135 68.7 54.5 81.7





#9

Propene

Concen: 10.005 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

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ClientSampleId :

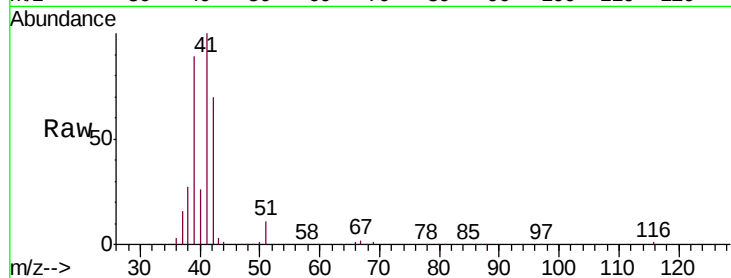
VL1207ABS01

Tgt Ion: 41 Resp: 350809

Ion Ratio Lower Upper

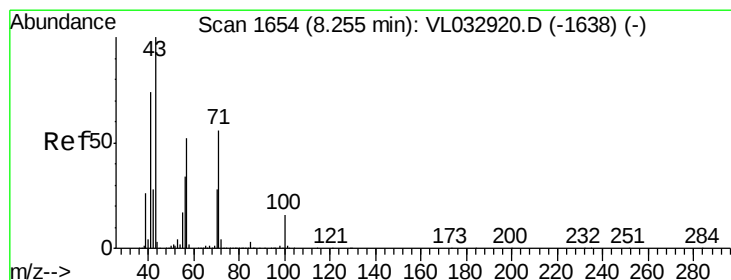
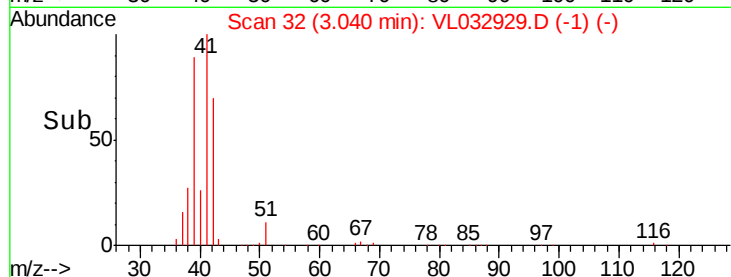
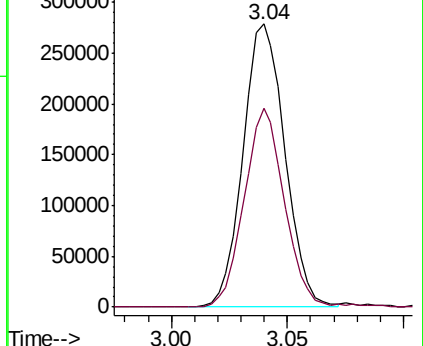
41 100

42 68.0 56.2 84.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.978 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL032929.D

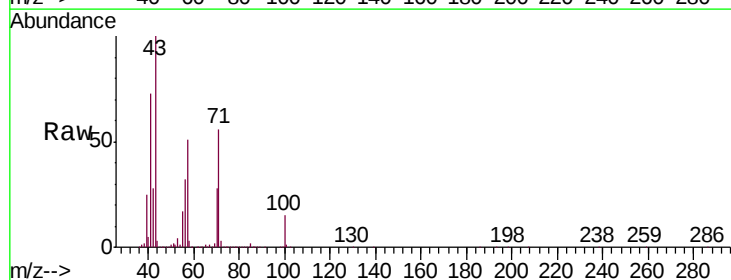
Acq: 7 Dec 2018 11:07

Tgt Ion: 43 Resp: 1445878

Ion Ratio Lower Upper

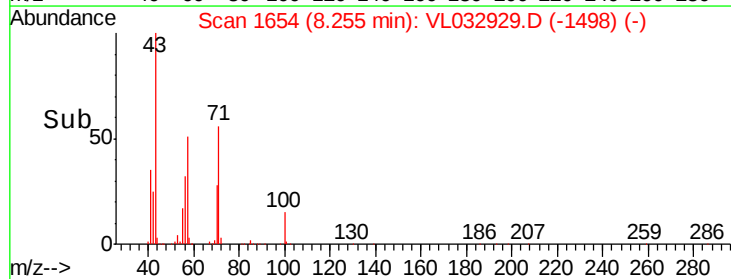
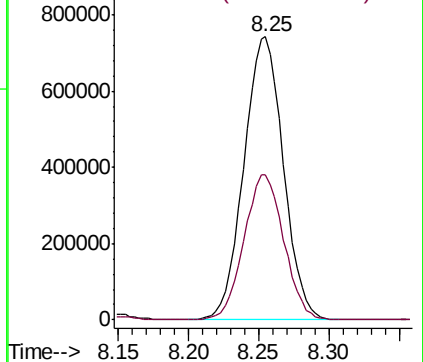
43 100

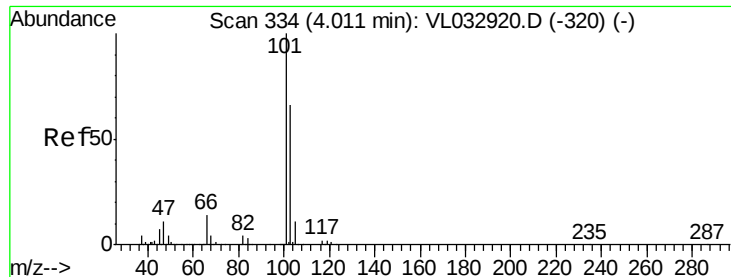
57 52.0 41.8 62.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

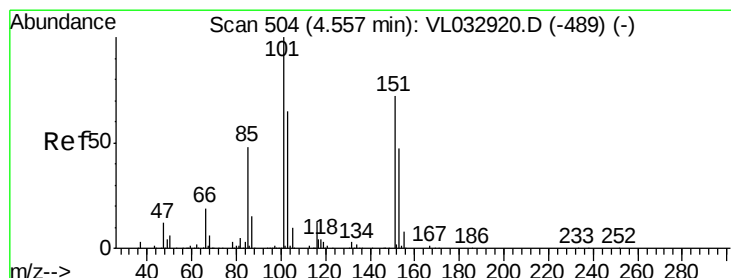
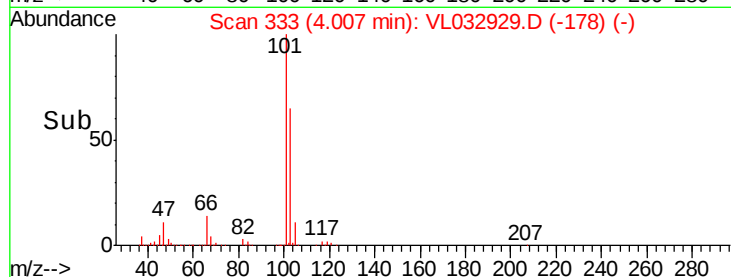
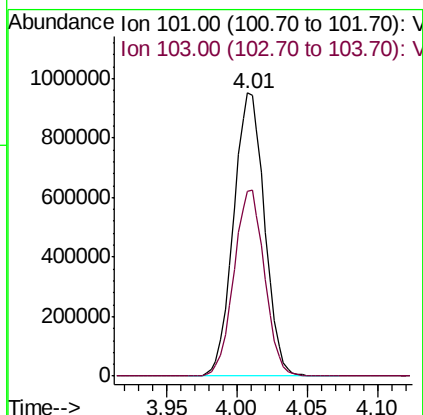
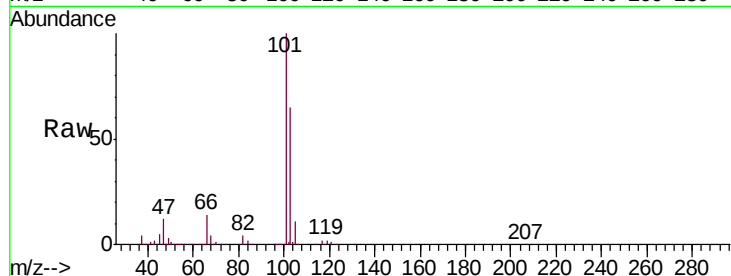




#11  
 Trichlorofluoromethane  
 Concen: 9.928 ppbv  
 RT: 4.01 min Scan# 333  
 Delta R.T. -0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

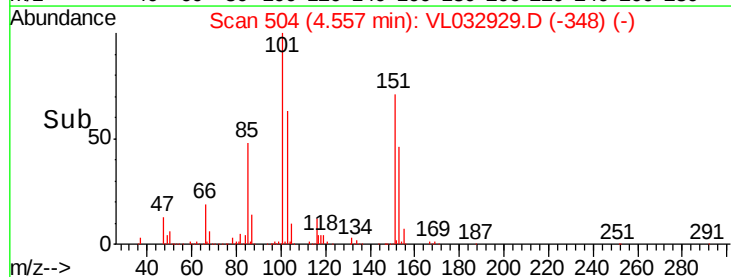
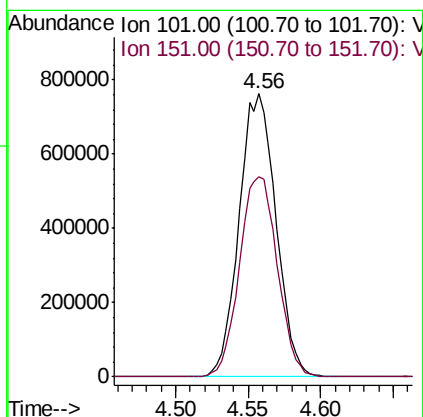
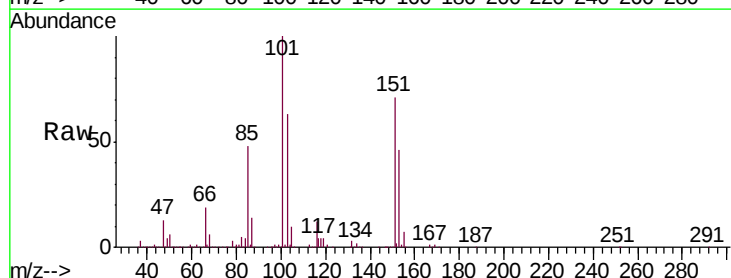
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1207ABS01

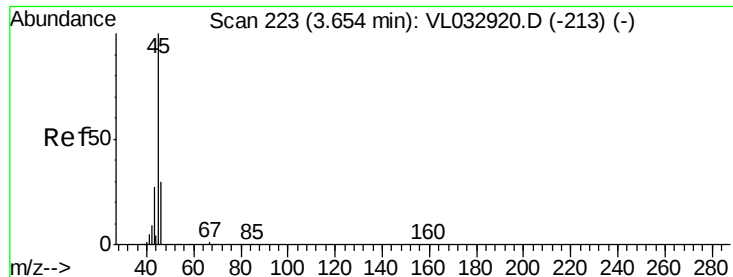
Tgt Ion:101 Resp: 1461983  
 Ion Ratio Lower Upper  
 101 100  
 103 65.4 52.7 79.1



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.721 ppbv  
 RT: 4.56 min Scan# 504  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

Tgt Ion:101 Resp: 1346954  
 Ion Ratio Lower Upper  
 101 100  
 151 73.0 59.3 88.9





#13

Ethanol

Concen: 8.239 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

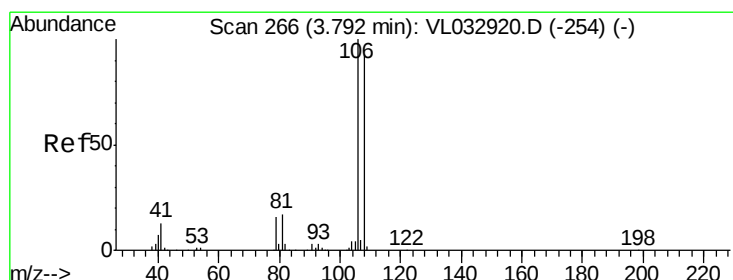
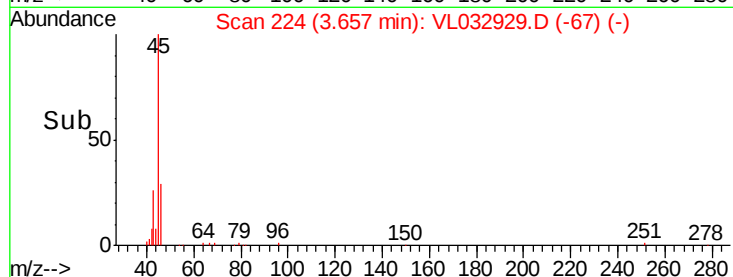
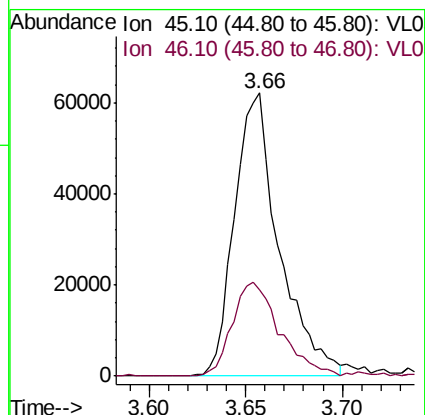
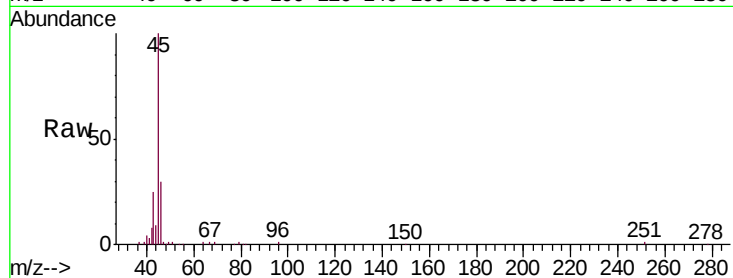
VL1207ABS01

Tgt Ion: 45 Resp: 99465

Ion Ratio Lower Upper

45 100

46 36.3 13.8 55.4



#14

Bromoethene

Concen: 10.452 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

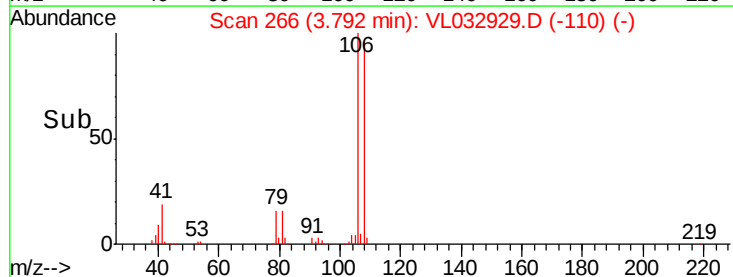
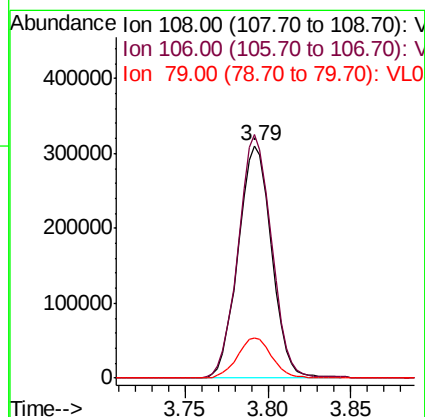
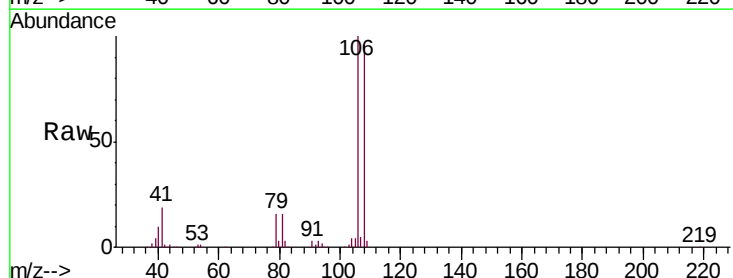
Tgt Ion: 108 Resp: 435977

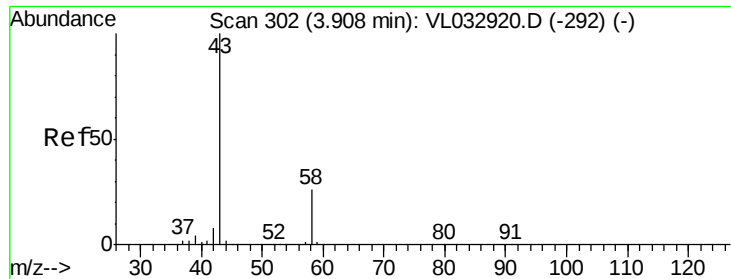
Ion Ratio Lower Upper

108 100

106 105.3 85.4 128.2

79 17.8 14.6 21.8

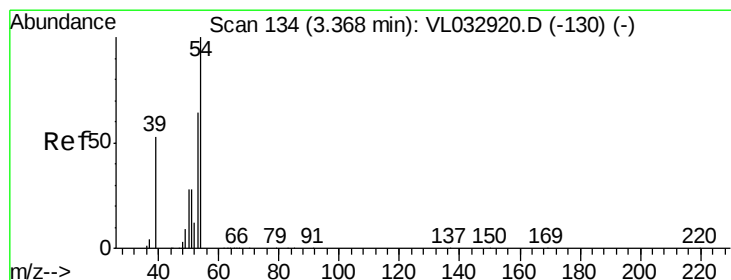
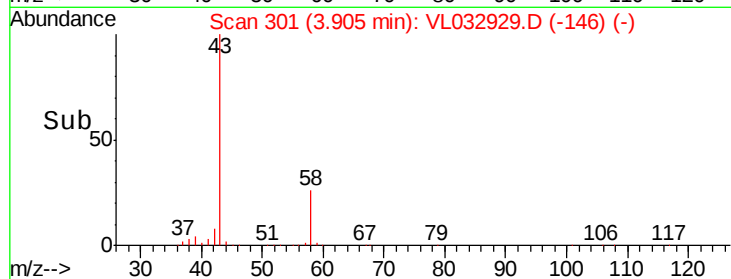
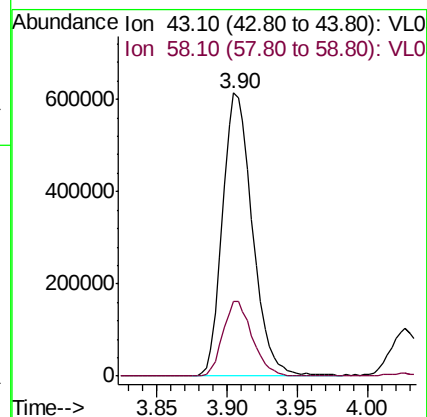
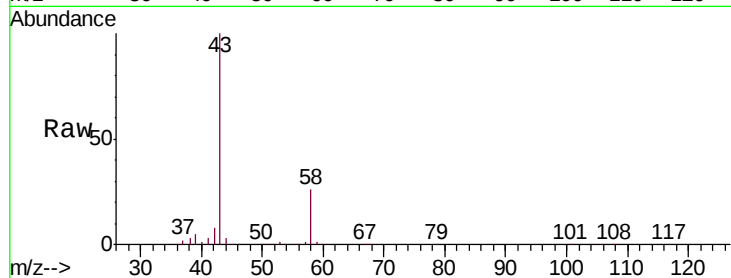




#15  
Acetone  
Concen: 9.017 ppbv  
RT: 3.90 min Scan# 301  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

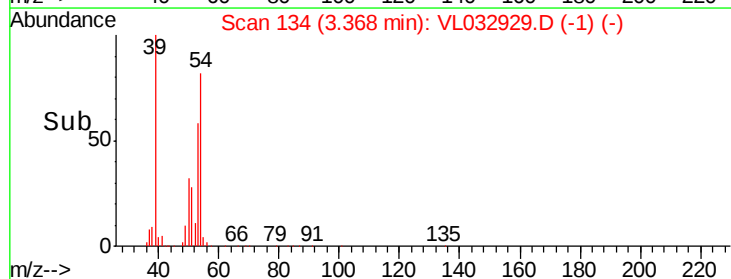
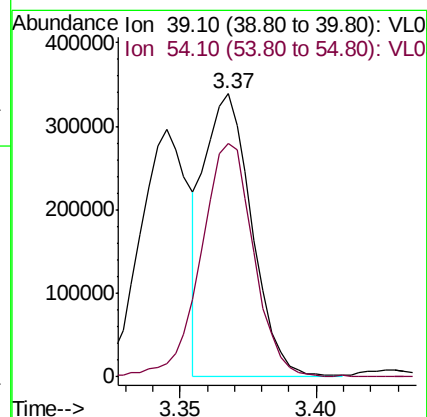
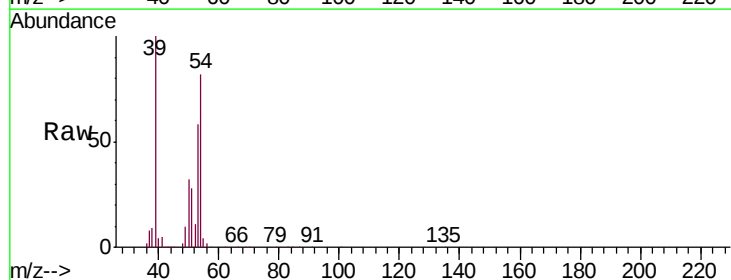
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

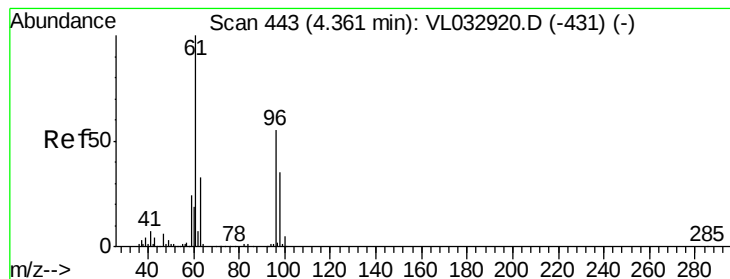
Tgt Ion: 43 Resp: 906137  
Ion Ratio Lower Upper  
43 100  
58 26.2 20.6 30.8



#16  
1,3-Butadiene  
Concen: 10.204 ppbv  
RT: 3.37 min Scan# 134  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion: 39 Resp: 406834  
Ion Ratio Lower Upper  
39 100  
54 92.7 72.7 109.1



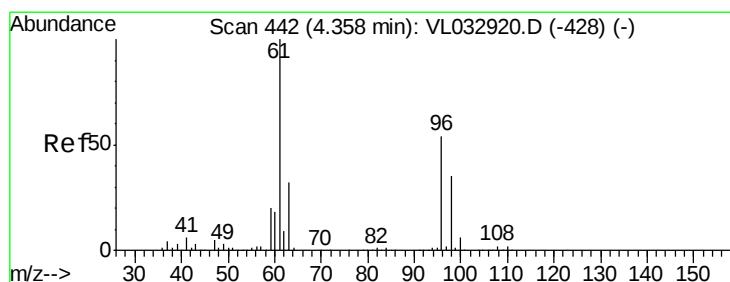
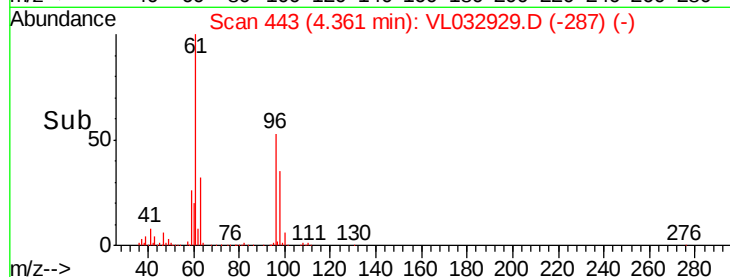
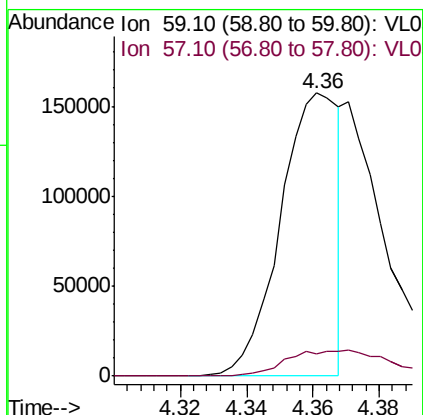
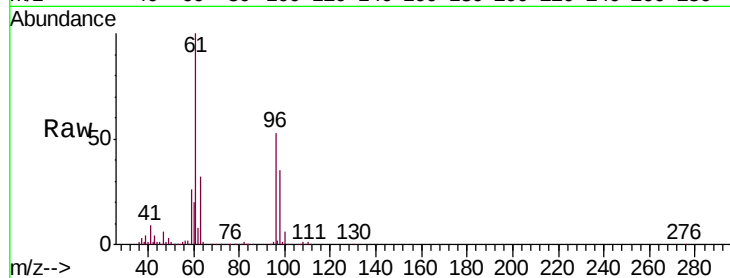


#17

tert-Butyl alcohol  
Concen: 7.535 ppbv  
RT: 4.36 min Scan# 443  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

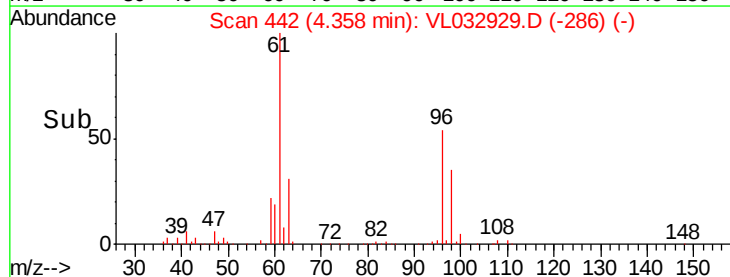
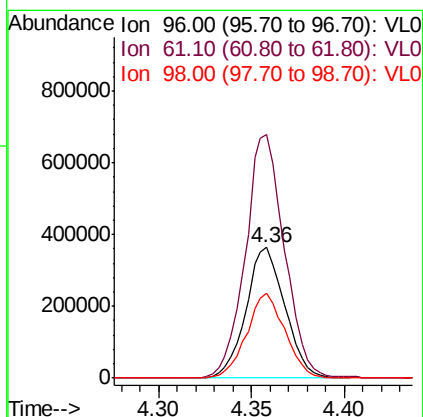
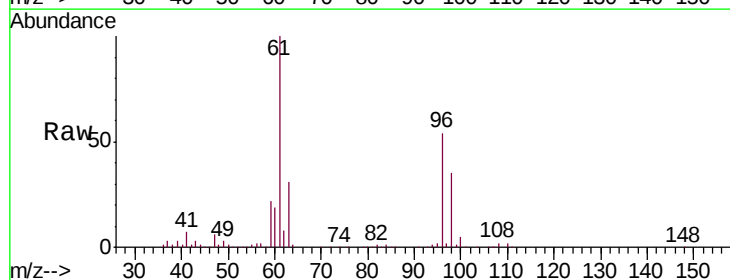
Tgt Ion: 59 Resp: 192805  
Ion Ratio Lower Upper  
59 100  
57 0.0 0.6 1.0#

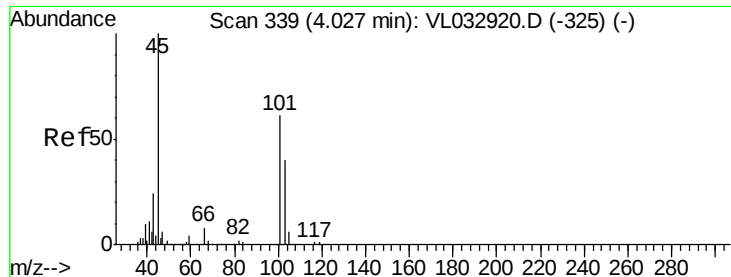


#18

1,1-Dichloroethene  
Concen: 10.807 ppbv  
RT: 4.36 min Scan# 442  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion: 96 Resp: 531771  
Ion Ratio Lower Upper  
96 100  
61 186.3 147.0 220.4  
98 65.0 50.7 76.1





#19

Isopropyl Alcohol

Concen: 10.996 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

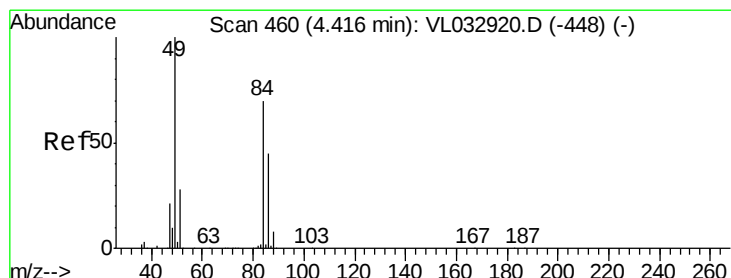
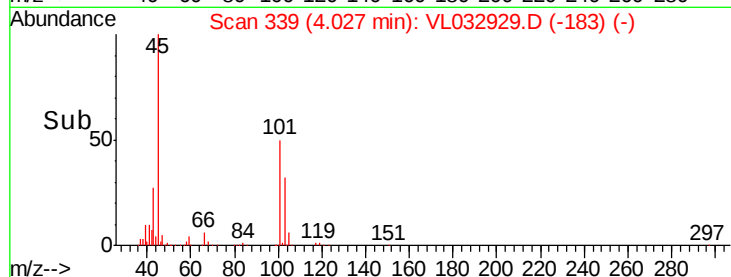
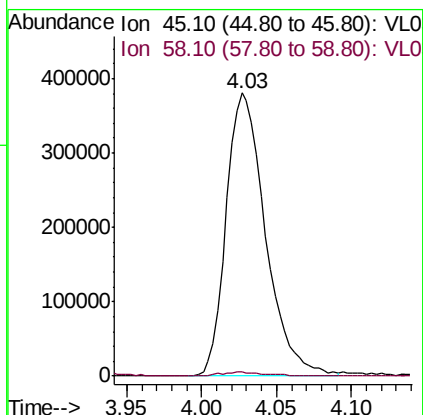
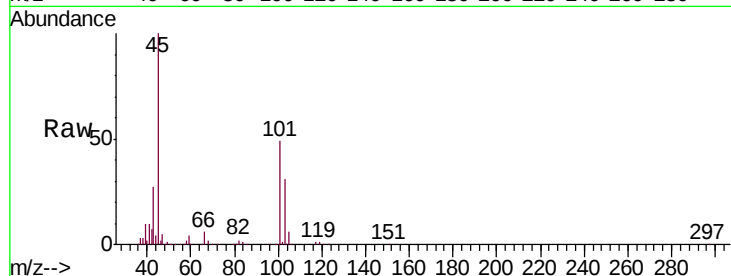
VL1207ABS01

Tgt Ion: 45 Resp: 693972

Ion Ratio Lower Upper

45 100

58 2.0 1.4 2.2



#20

Methylene Chloride

Concen: 11.093 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Tgt Ion: 84 Resp: 544851

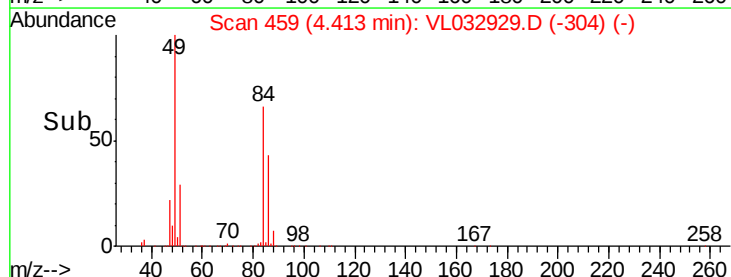
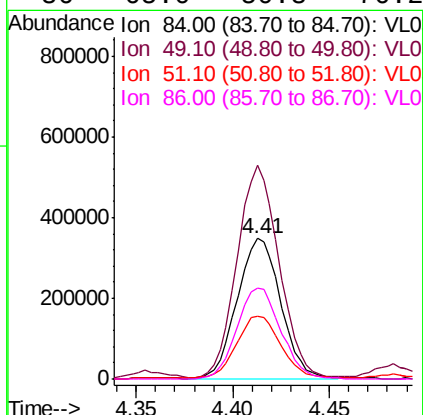
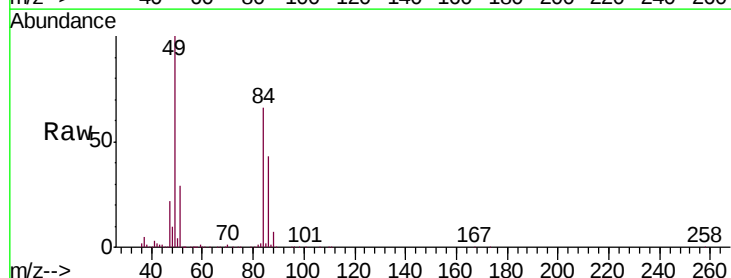
Ion Ratio Lower Upper

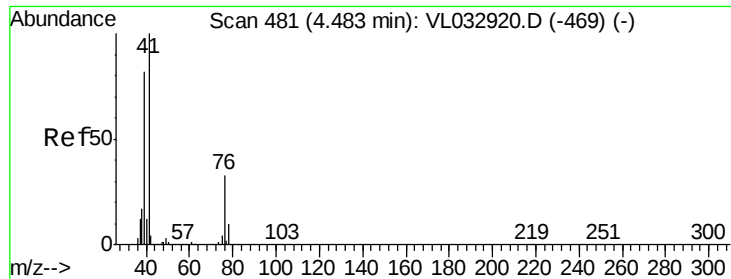
84 100

49 151.2 113.8 170.8

51 43.9 31.8 47.8

86 65.0 50.8 76.2

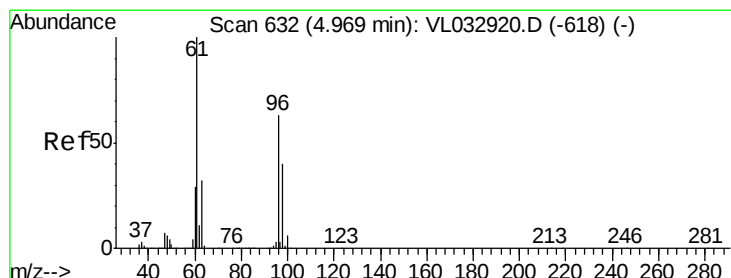
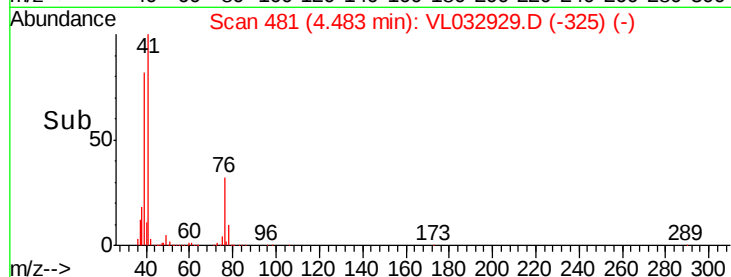
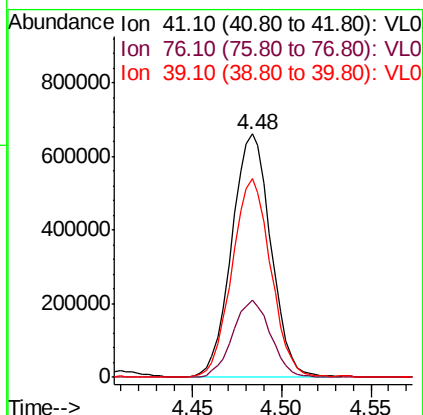
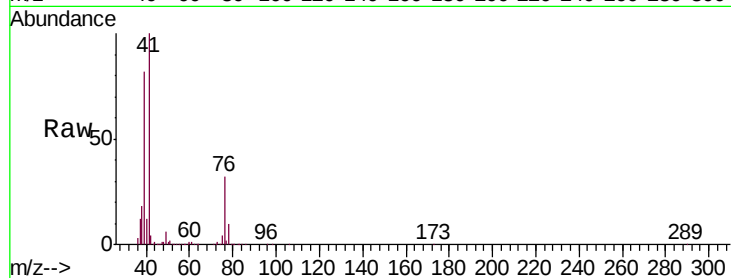




#21  
 Allyl Chloride  
 Concen: 12.233 ppbv  
 RT: 4.48 min Scan# 481  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

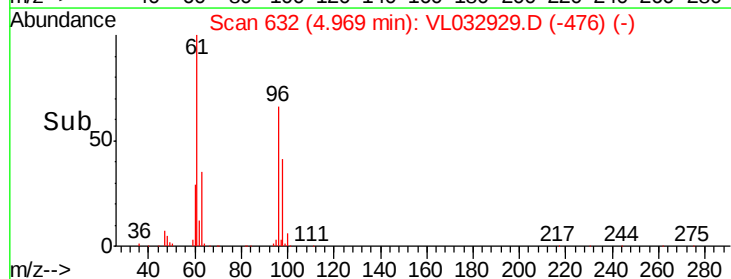
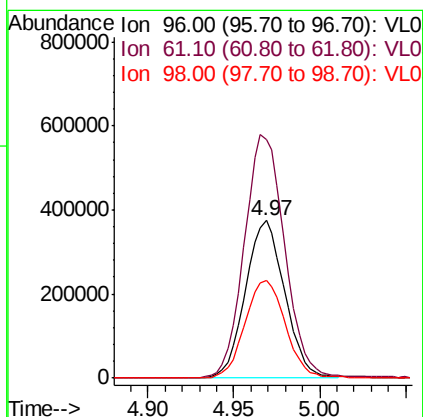
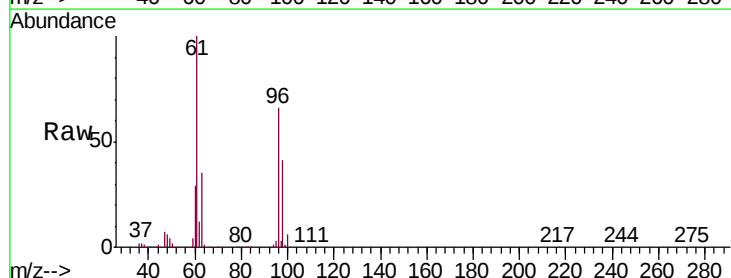
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1207ABS01

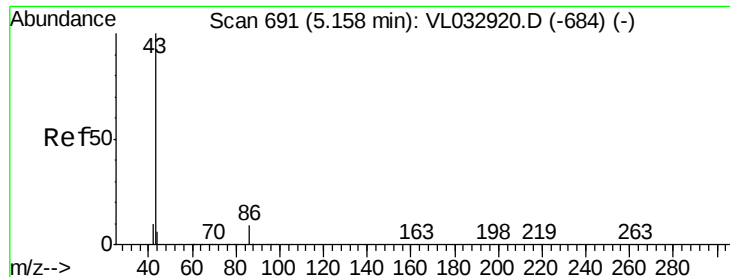
Tgt Ion: 41 Resp: 1001867  
 Ion Ratio Lower Upper  
 41 100  
 76 31.2 25.2 37.8  
 39 81.5 65.2 97.8



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.739 ppbv  
 RT: 4.97 min Scan# 632  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

Tgt Ion: 96 Resp: 594750  
 Ion Ratio Lower Upper  
 96 100  
 61 151.3 127.1 190.7  
 98 61.9 51.3 76.9





#23

Vinyl Acetate

Concen: 11.370 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

Tgt Ion: 43 Resp: 1934630

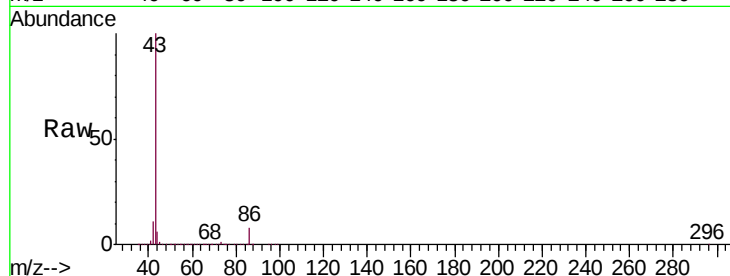
Ion Ratio Lower Upper

43 100

86 8.2 6.6 9.8

42 10.7 8.3 12.5

44 5.5 4.2 6.4

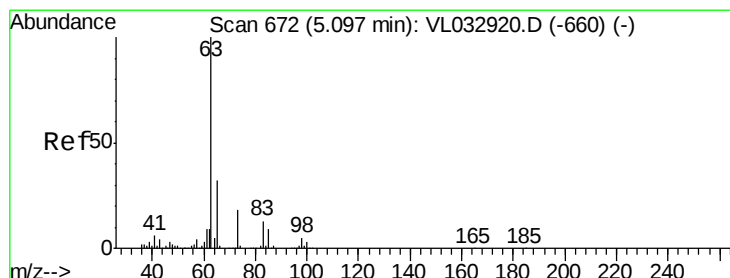
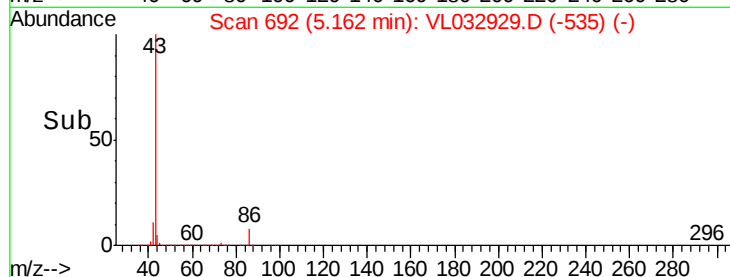
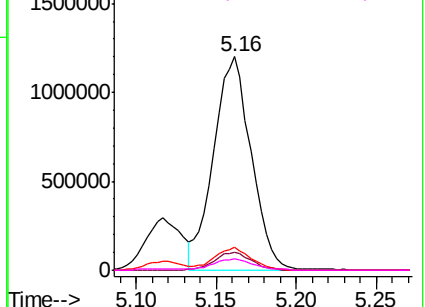


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 10.750 ppbv

RT: 5.10 min Scan# 672

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

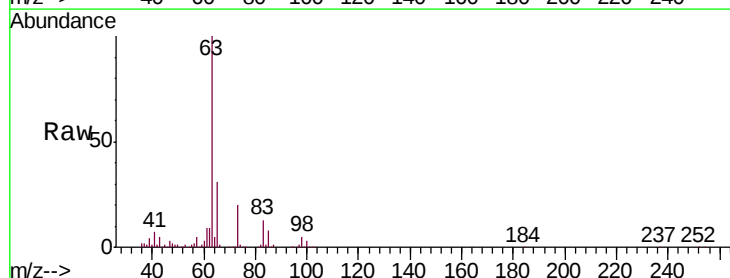
Tgt Ion: 63 Resp: 1590515

Ion Ratio Lower Upper

63 100

98 4.6 2.5 7.5

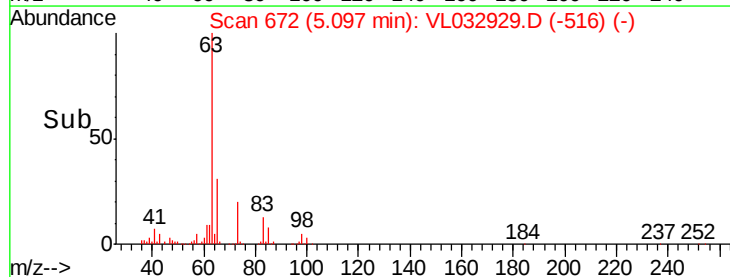
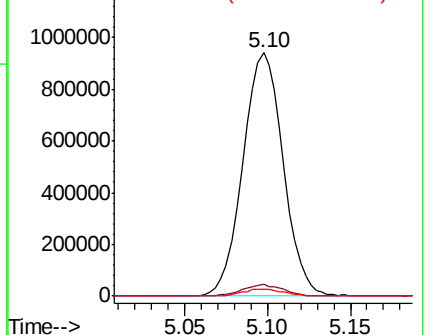
100 2.7 1.4 4.2

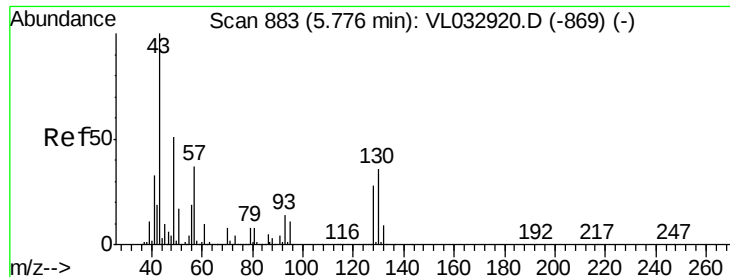


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

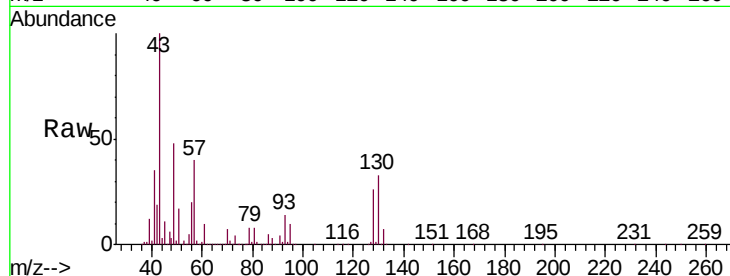




#25  
Ethyl Acetate  
Concen: 9.642 ppbv  
RT: 5.78 min Scan# 883  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

| Tgt Ion: | 43    | Resp: | 2288988 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 43       | 100   |       |         |
| 45       | 9.6   | 7.8   | 11.6    |
| 61       | 9.4   | 7.4   | 11.2    |
| 70       | 7.1   | 5.7   | 8.5     |



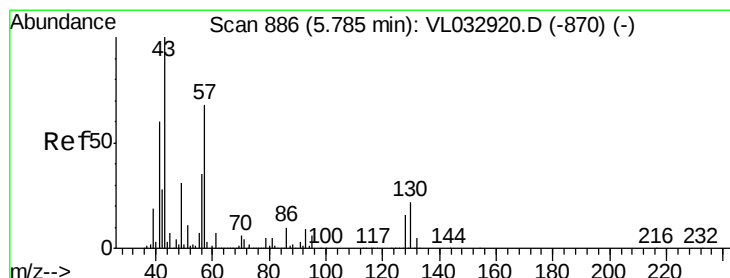
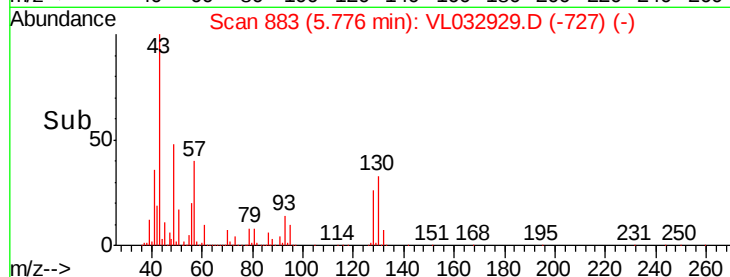
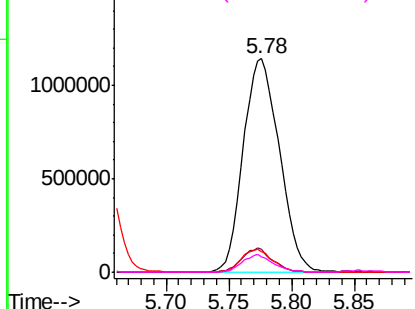
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

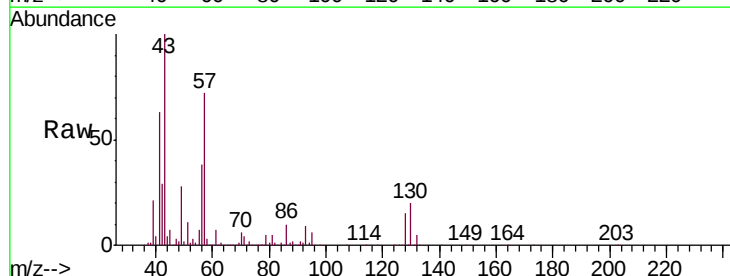
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26  
Hexane  
Concen: 9.696 ppbv  
RT: 5.79 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

| Tgt Ion: | 57    | Resp: | 1062716 |
|----------|-------|-------|---------|
| Ion      | Ratio | Lower | Upper   |
| 57       | 100   |       |         |
| 41       | 89.5  | 72.2  | 108.2   |
| 43       | 216.2 | 171.9 | 257.9   |
| 56       | 52.9  | 42.2  | 63.2    |



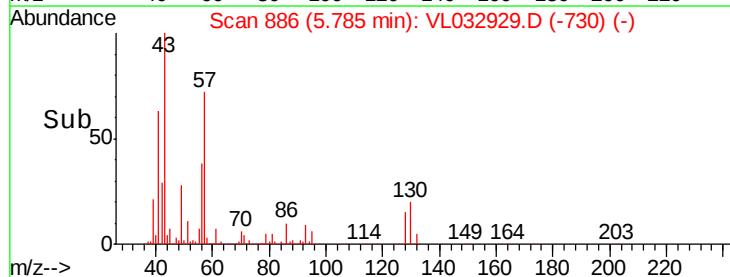
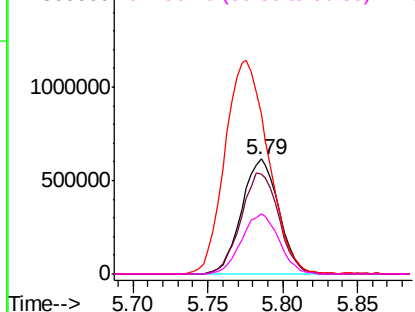
Abundance

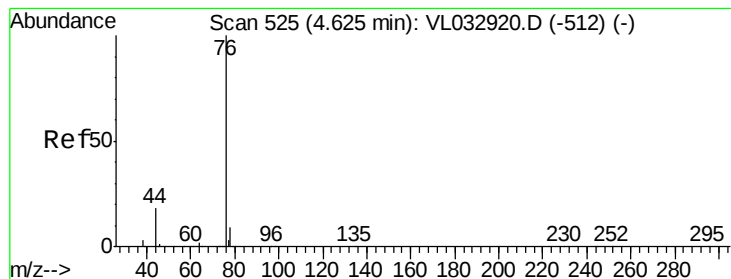
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 10.734 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

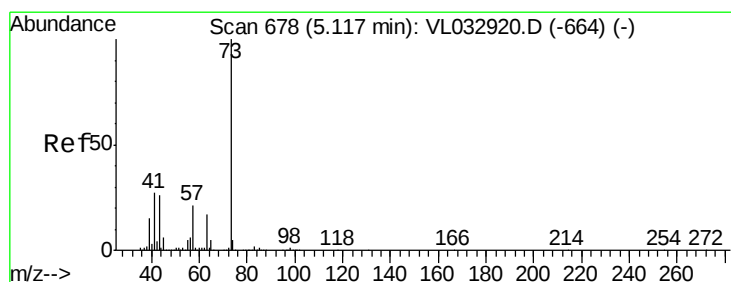
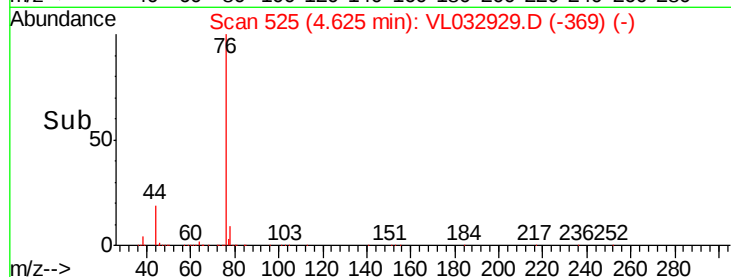
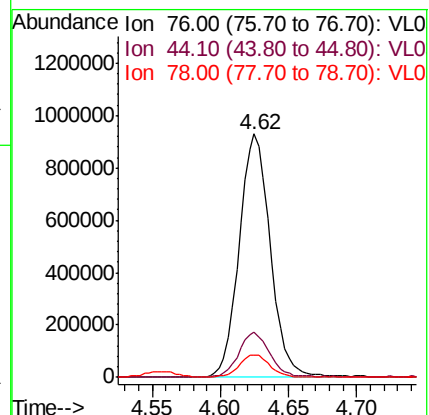
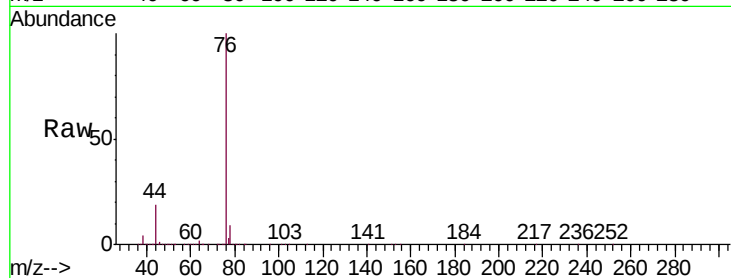
Tgt Ion: 76 Resp: 1471036

Ion Ratio Lower Upper

76 100

44 18.1 14.7 22.1

78 9.2 7.4 11.2



#28

Methyl tert-Butyl Ether

Concen: 11.962 ppbv

RT: 5.12 min Scan# 678

Delta R.T. 0.00 min

Lab File: VL032929.D

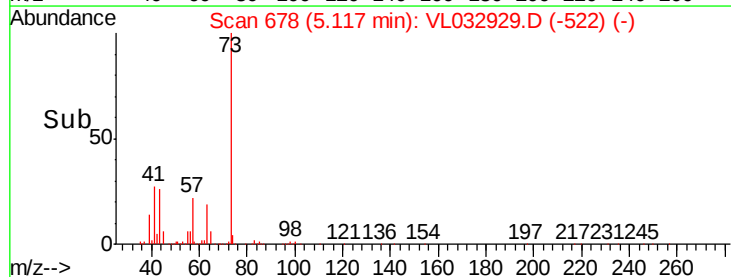
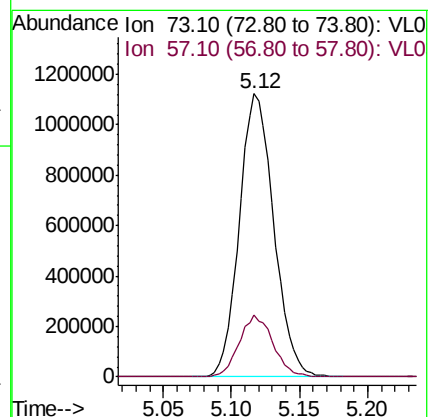
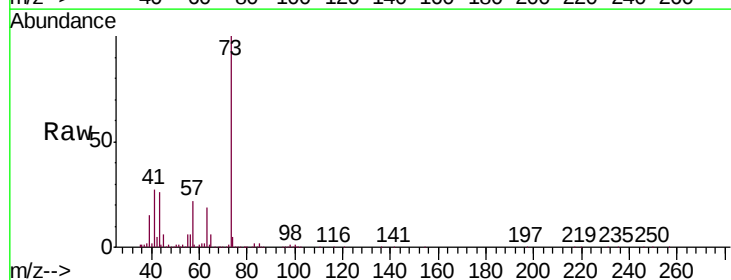
Acq: 7 Dec 2018 11:07

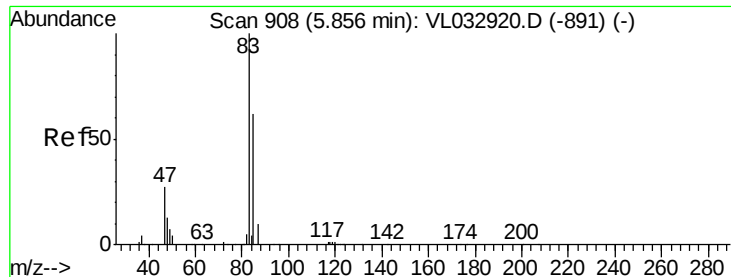
Tgt Ion: 73 Resp: 1969011

Ion Ratio Lower Upper

73 100

57 21.6 17.4 26.0

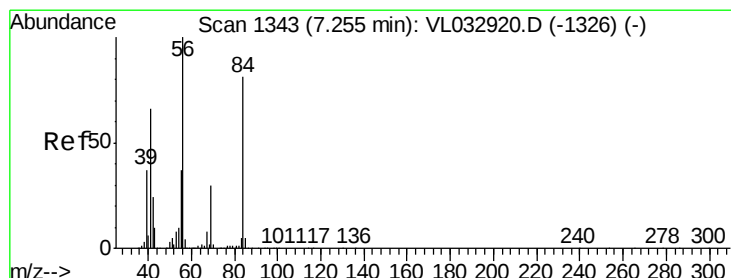
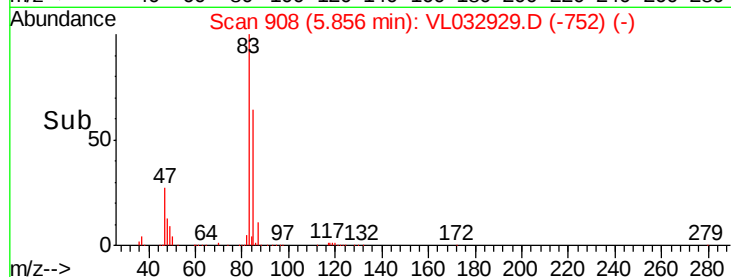
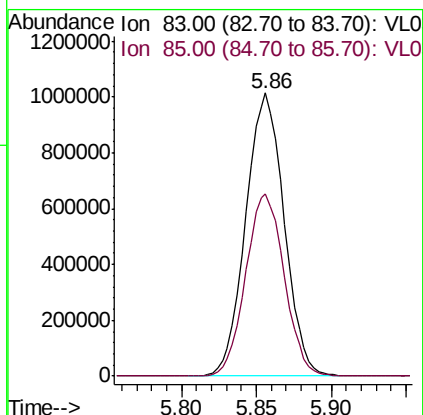
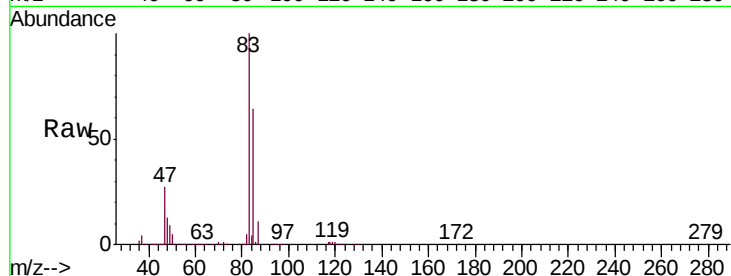




#29  
Chloroform  
Concen: 9.271 ppbv  
RT: 5.86 min Scan# 908  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

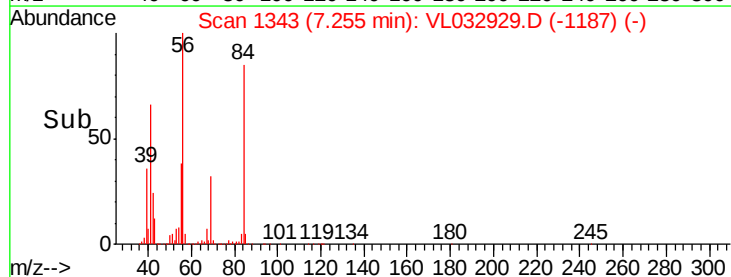
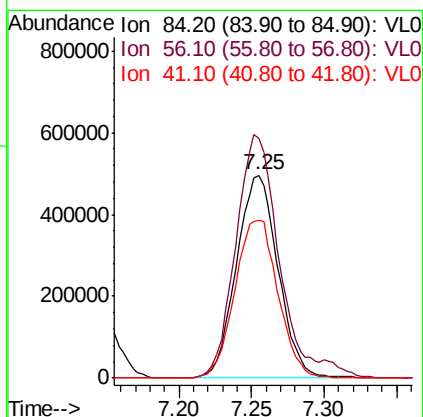
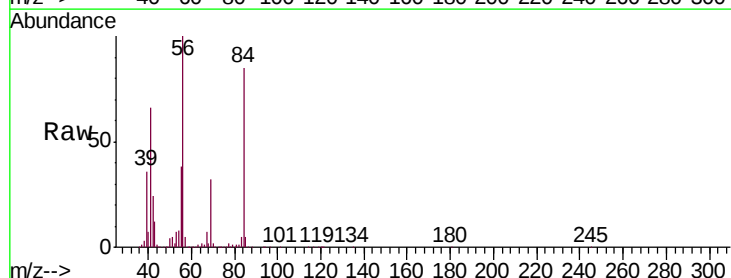
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

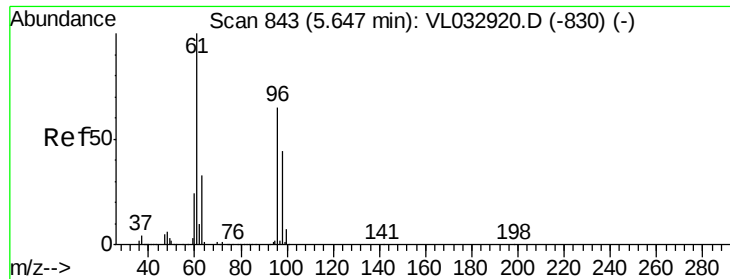
Tgt Ion: 83 Resp: 1813092  
Ion Ratio Lower Upper  
83 100  
85 64.2 49.8 74.8



#30  
Cyclohexane  
Concen: 10.851 ppbv  
RT: 7.25 min Scan# 1343  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion: 84 Resp: 985757  
Ion Ratio Lower Upper  
84 100  
56 127.5 102.5 153.7  
41 81.1 64.1 96.1



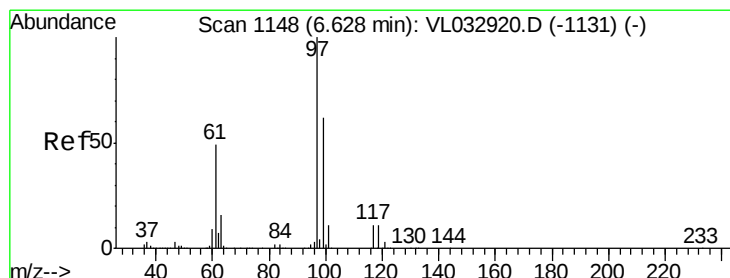
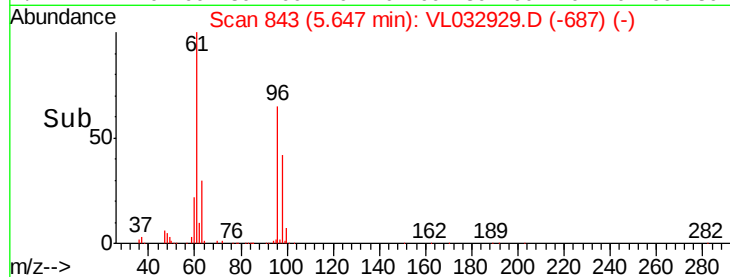
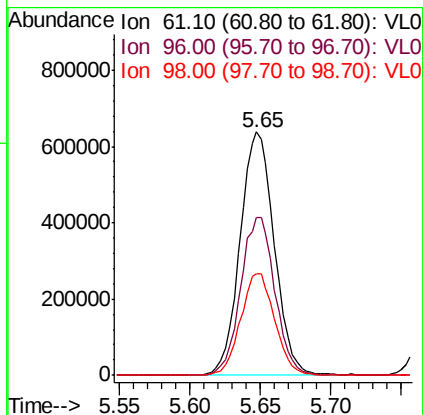
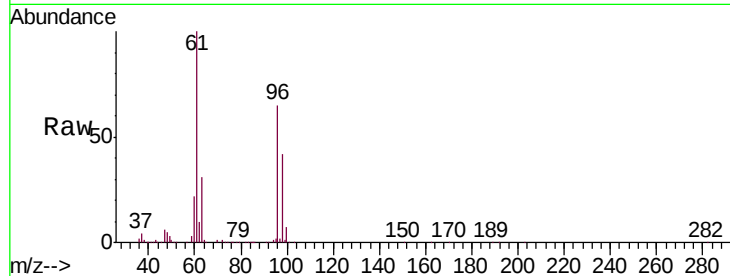


#31

cis-1,2-Dichloroethene  
 Concen: 10.789 ppbv  
 RT: 5.65 min Scan# 843  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1207ABS01

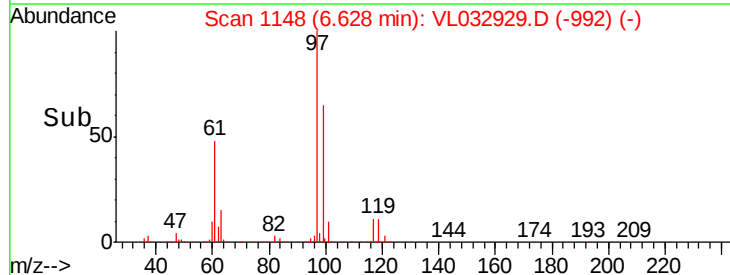
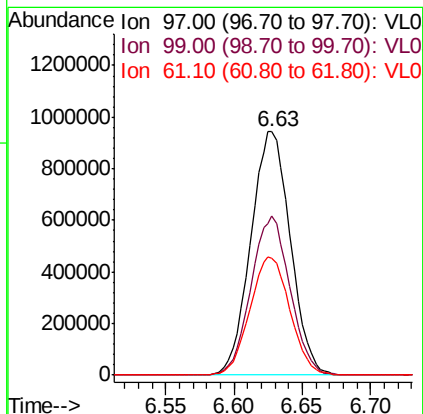
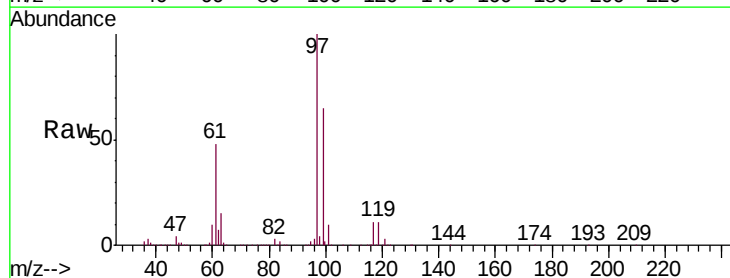
Tgt Ion: 61 Resp: 1085143  
 Ion Ratio Lower Upper  
 61 100  
 96 64.9 51.9 77.9  
 98 42.0 35.0 52.4

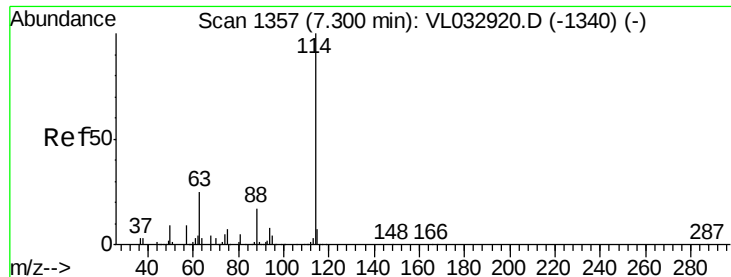


#32

1,1,1-Trichloroethane  
 Concen: 9.189 ppbv  
 RT: 6.63 min Scan# 1148  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

Tgt Ion: 97 Resp: 1901466  
 Ion Ratio Lower Upper  
 97 100  
 99 64.4 51.1 76.7  
 61 49.1 39.3 58.9

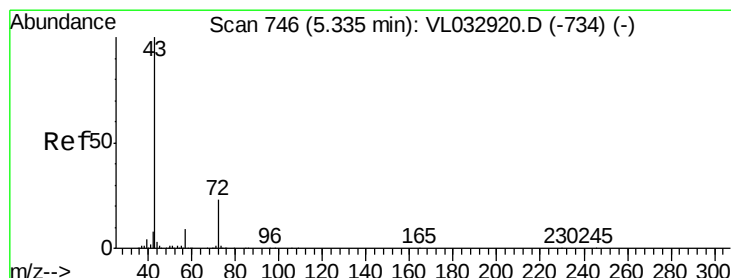
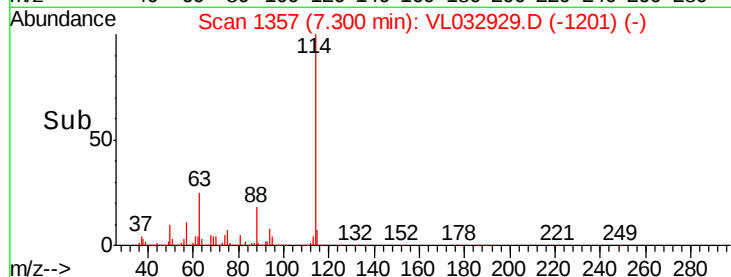
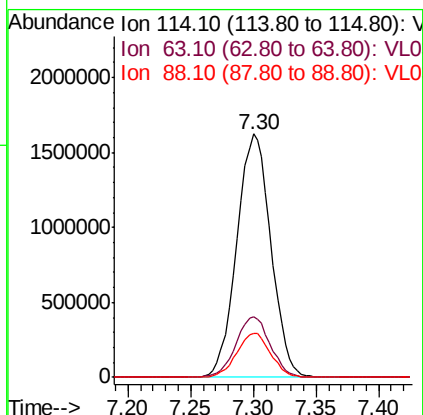
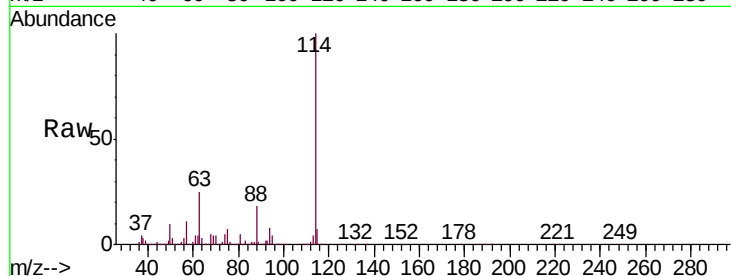




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.30 min Scan# 1357  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

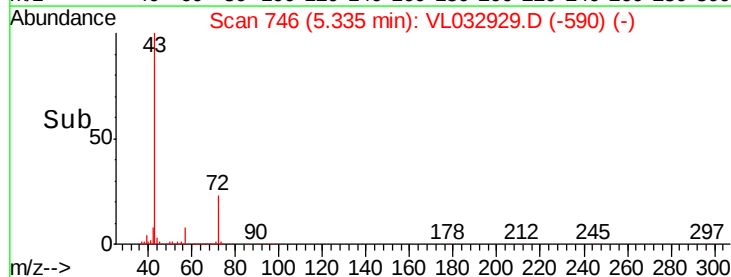
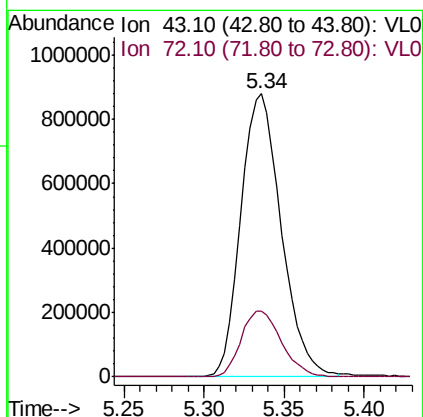
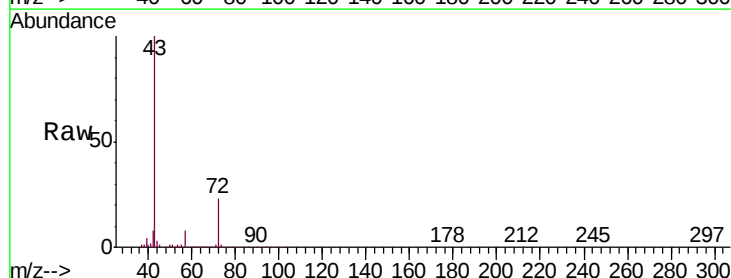
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1207ABS01

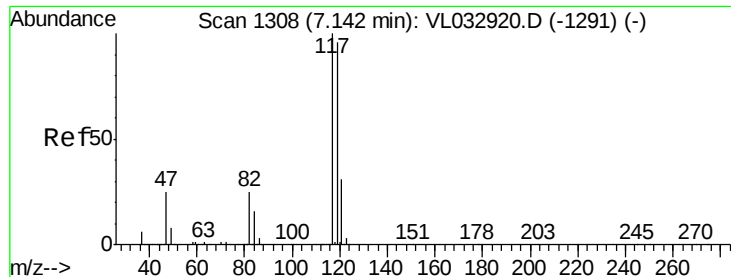
Tgt Ion: 114 Resp: 3069405  
 Ion Ratio Lower Upper  
 114 100  
 63 25.3 20.1 30.1  
 88 17.9 14.2 21.4



#34  
 2-Butanone  
 Concen: 11.281 ppbv  
 RT: 5.34 min Scan# 746  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

Tgt Ion: 43 Resp: 1508262  
 Ion Ratio Lower Upper  
 43 100  
 72 23.6 18.8 28.2





#35

Carbon Tetrachloride

Concen: 9.305 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

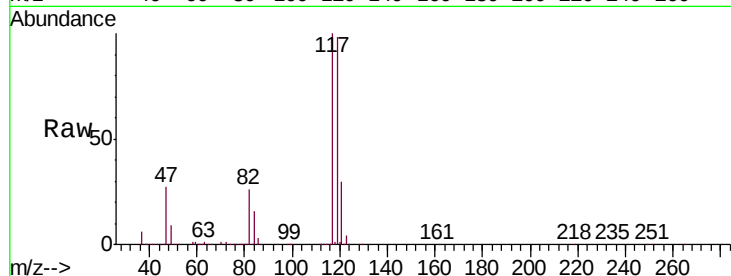
Tgt Ion:117 Resp: 2244923

Ion Ratio Lower Upper

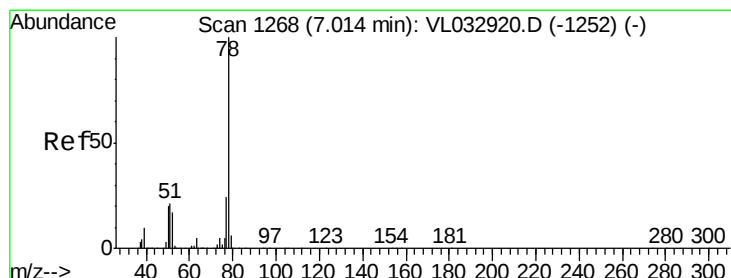
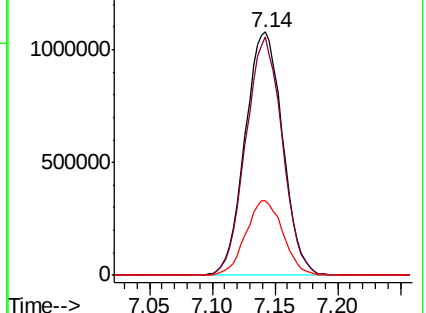
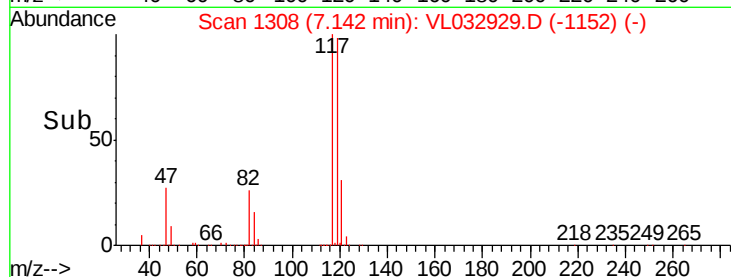
117 100

119 97.9 76.5 114.7

121 30.4 24.5 36.7



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: 10.299 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

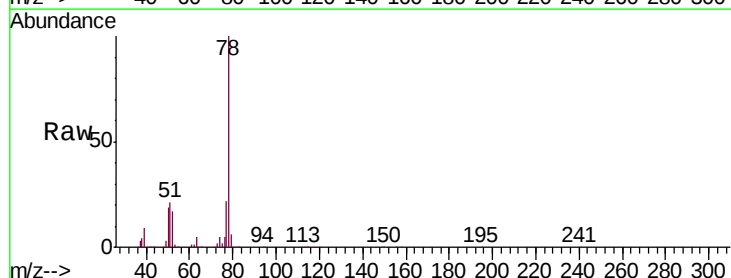
Tgt Ion: 78 Resp: 2325017

Ion Ratio Lower Upper

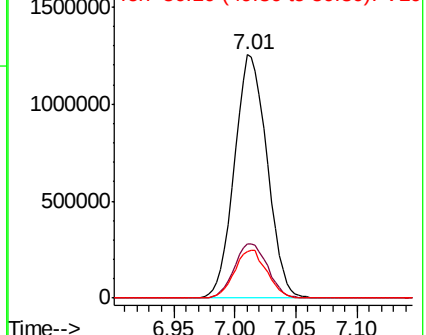
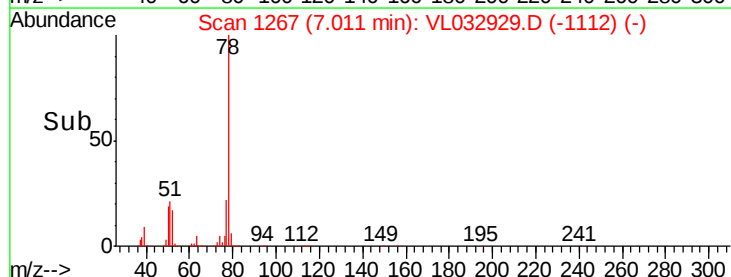
78 100

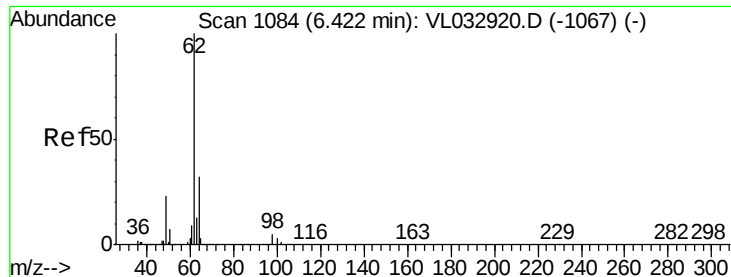
77 22.2 18.9 28.3

50 19.2 16.1 24.1



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: 9.201 ppbv

RT: 6.42 min Scan# 1084

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

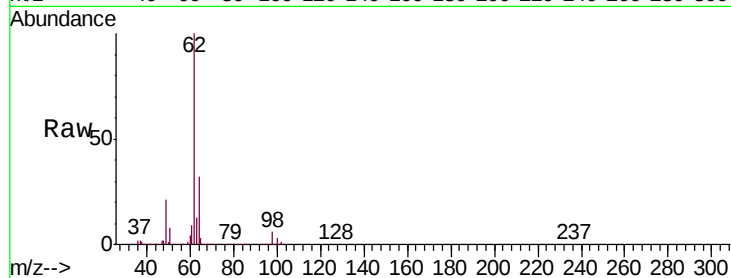
VL1207ABS01

Tgt Ion: 62 Resp: 1414275

Ion Ratio Lower Upper

62 100

98 5.6 4.3 6.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

800000

600000

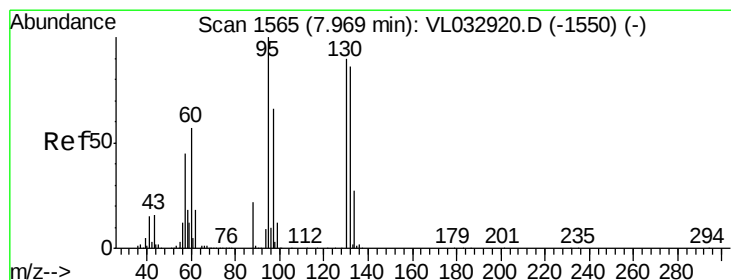
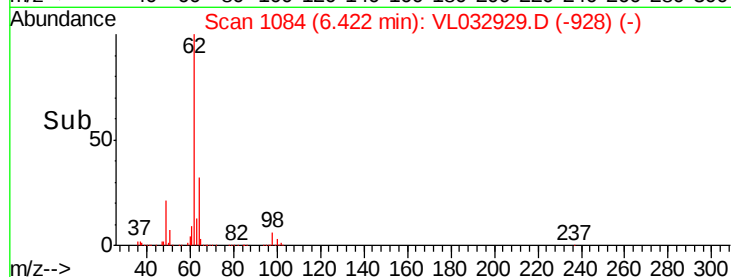
400000

200000

0

6.35 6.40 6.45 6.50

Time-->



#38

Trichloroethene

Concen: 10.476 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Tgt Ion: 130 Resp: 984298

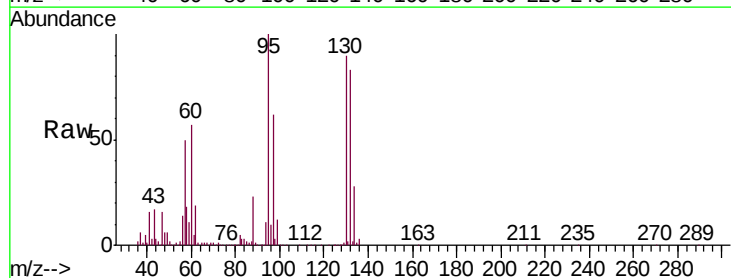
Ion Ratio Lower Upper

130 100

95 111.7 88.6 132.8

132 93.0 76.1 114.1

97 69.8 58.0 87.0



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

800000

600000

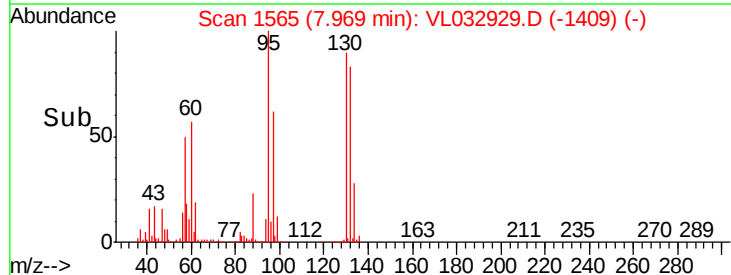
400000

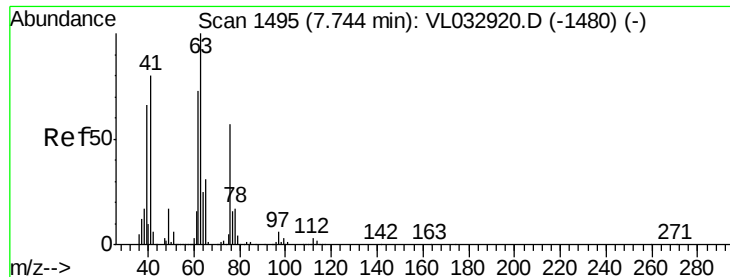
200000

0

7.90 7.95 8.00 8.05

Time-->

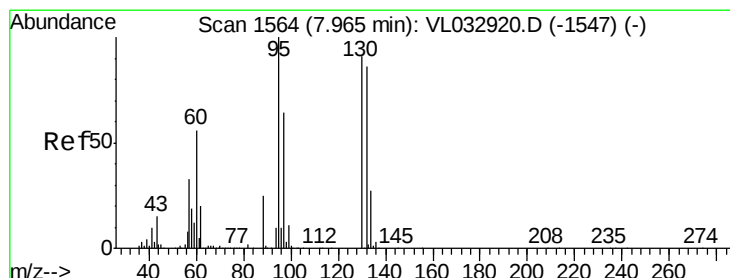
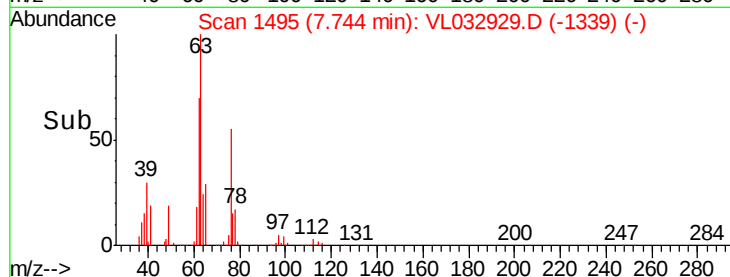
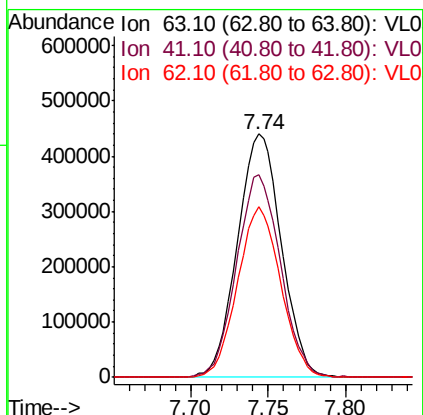
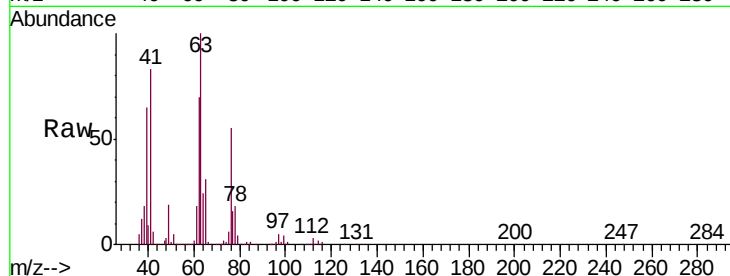




#39  
 1,2-Dichloropropane  
 Concen: 10.085 ppbv  
 RT: 7.74 min Scan# 1495  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

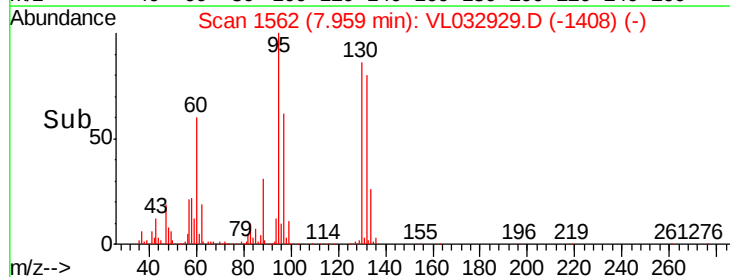
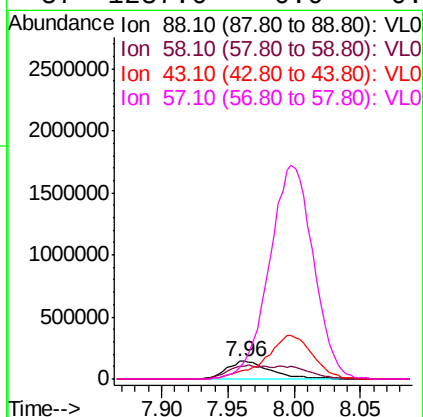
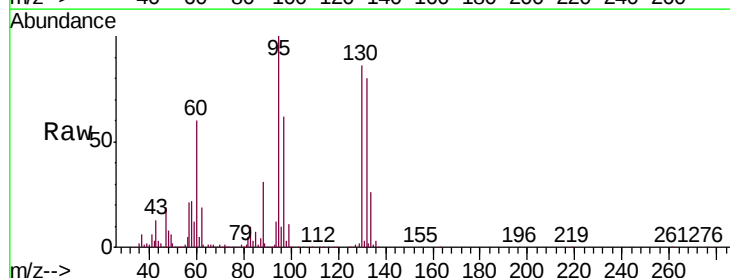
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1207ABS01

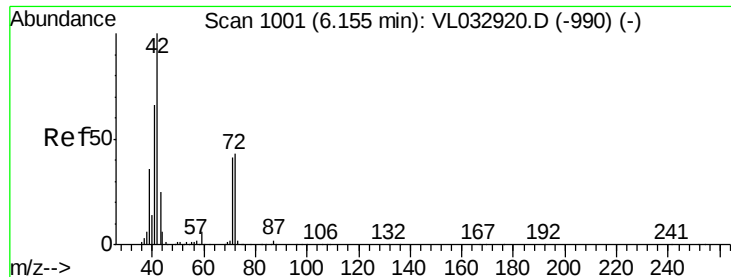
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 83.3  | 63.9  | 95.9  |
| 62      | 70.0  | 58.8  | 88.2  |



#40  
 1,4-Dioxane  
 Concen: 10.306 ppbv  
 RT: 7.96 min Scan# 1562  
 Delta R.T. -0.01 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

| Tgt Ion | Ratio  | Lower | Upper |
|---------|--------|-------|-------|
| 88      | 100    |       |       |
| 58      | 130.9  | 107.4 | 161.2 |
| 43      | 271.6  | 0.0   | 0.0#  |
| 57      | 1237.6 | 0.0   | 0.0#  |

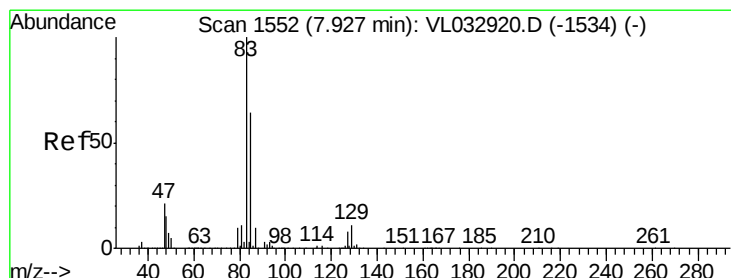
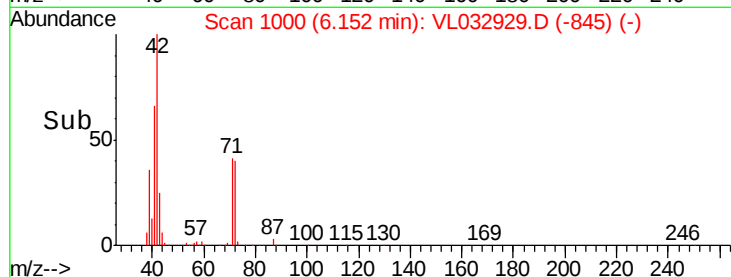
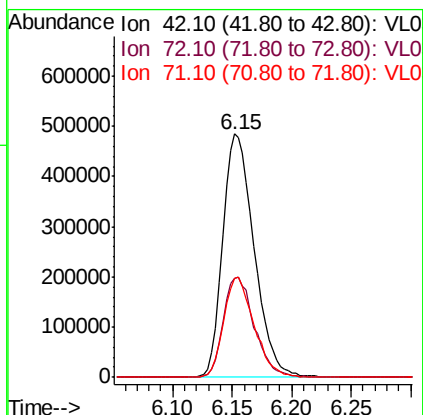
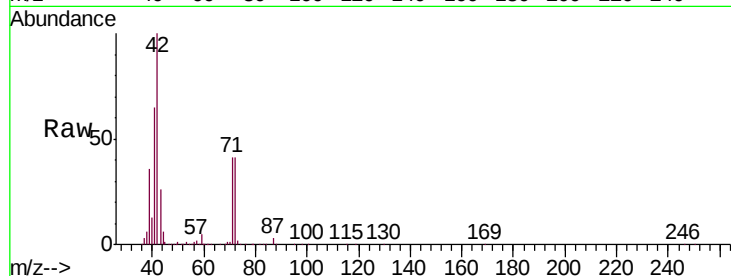




#41  
Tetrahydrofuran  
Concen: 10.671 ppbv  
RT: 6.15 min Scan# 1000  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

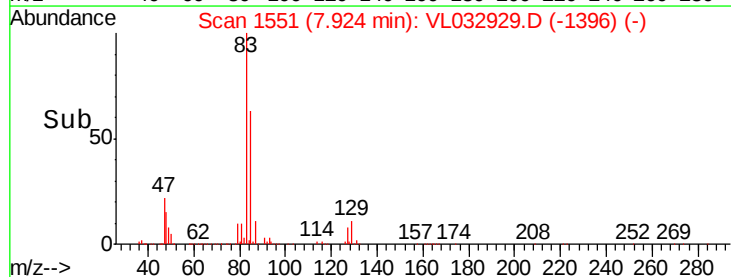
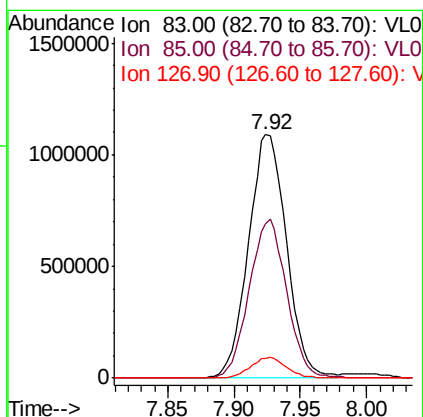
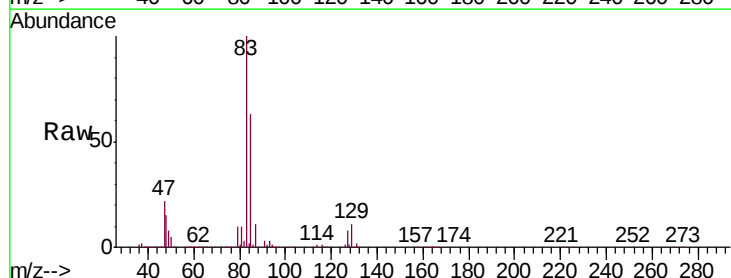
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

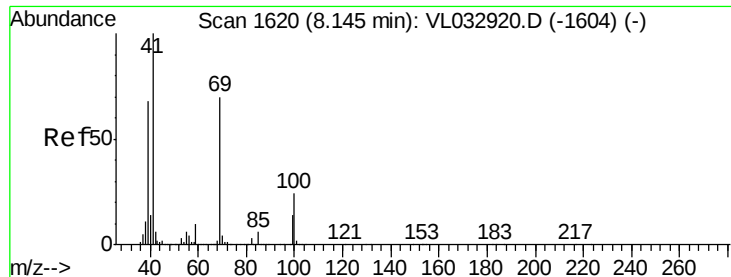
Tgt Ion: 42 Resp: 887339  
Ion Ratio Lower Upper  
42 100  
72 40.8 32.9 49.3  
71 39.9 32.0 48.0



#42  
Bromodichloromethane  
Concen: 10.267 ppbv  
RT: 7.92 min Scan# 1551  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion: 83 Resp: 2186371  
Ion Ratio Lower Upper  
83 100  
85 63.4 50.9 76.3  
127 8.1 6.7 10.1

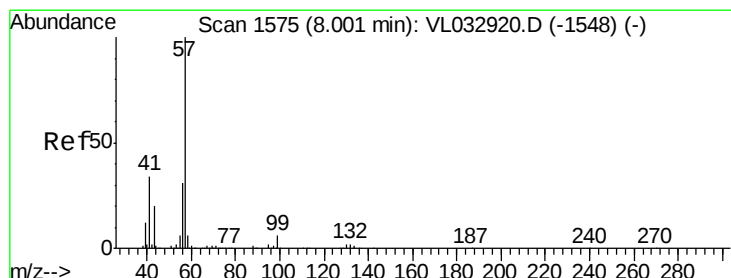
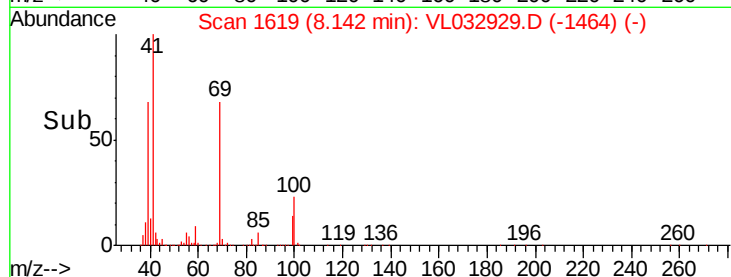
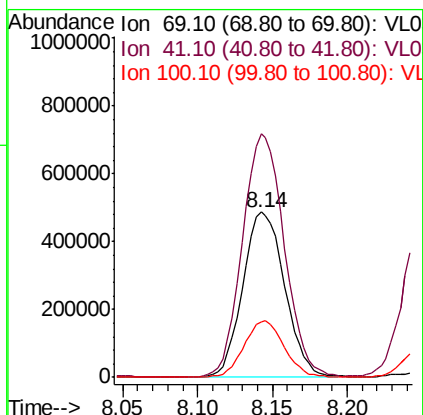
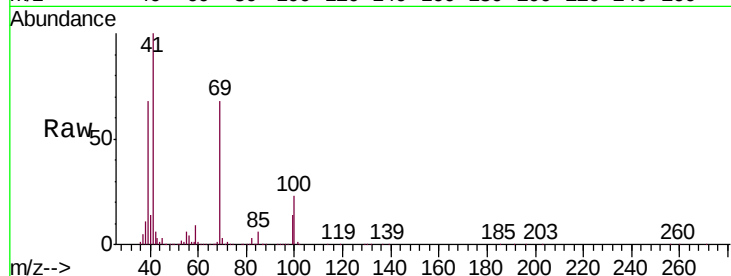




#43  
Methyl Methacrylate  
Concen: 11.335 ppbv  
RT: 8.14 min Scan# 1619  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

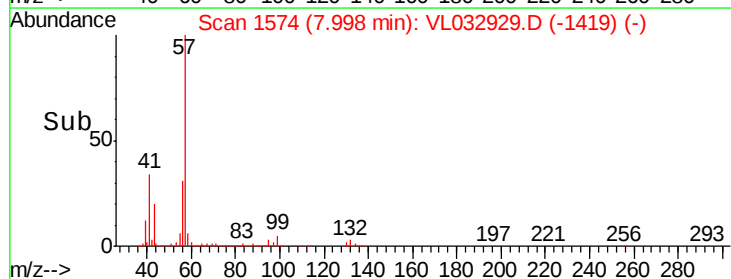
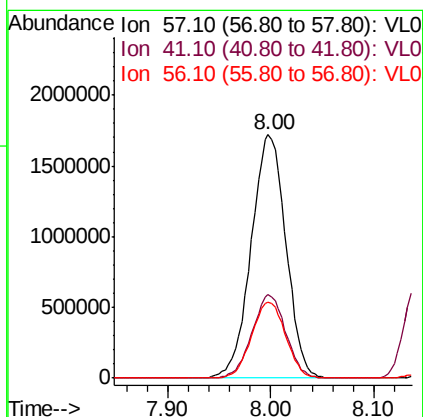
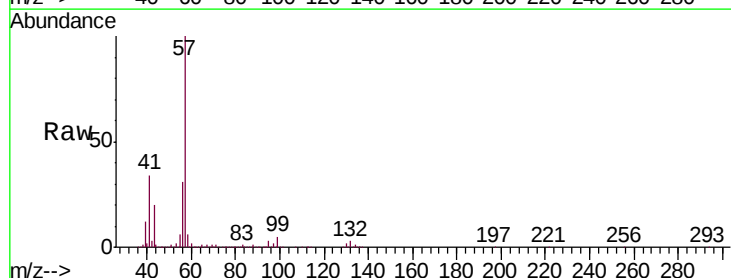
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

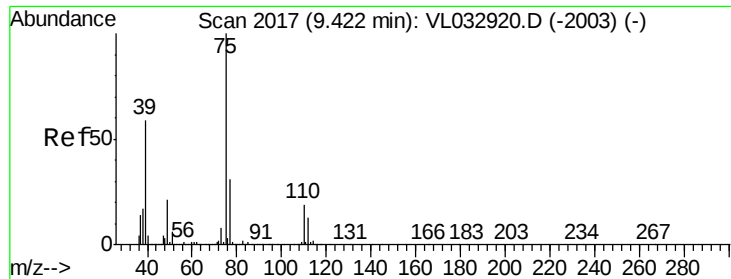
Tgt Ion: 69 Resp: 948214  
Ion Ratio Lower Upper  
69 100  
41 147.2 116.6 175.0  
100 32.9 26.5 39.7



#44  
2,2,4-Trimethylpentane  
Concen: 10.485 ppbv  
RT: 8.00 min Scan# 1574  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion: 57 Resp: 4018225  
Ion Ratio Lower Upper  
57 100  
41 33.2 27.0 40.4  
56 30.8 24.6 37.0





#45

t-1,3-Dichloropropene

Concen: 13.320 ppbv

RT: 9.43 min Scan# 2018

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

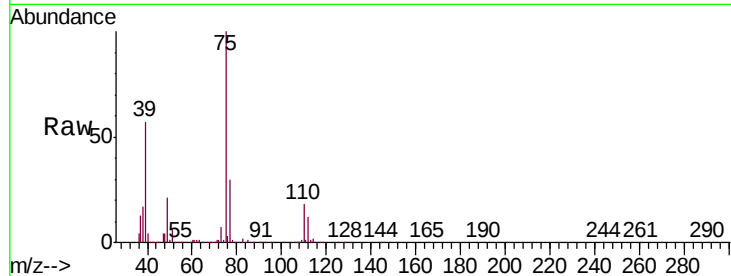
VL1207ABS01

Tgt Ion: 75 Resp: 1366209

Ion Ratio Lower Upper

75 100

77 30.0 24.8 37.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

800000

600000

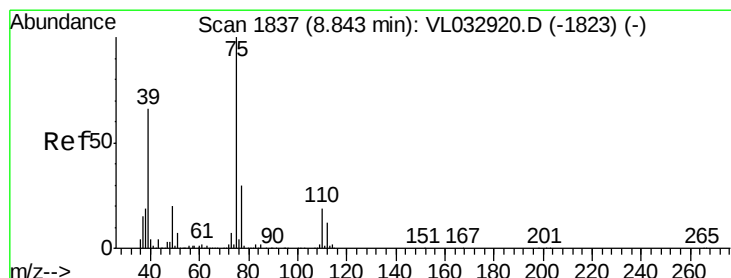
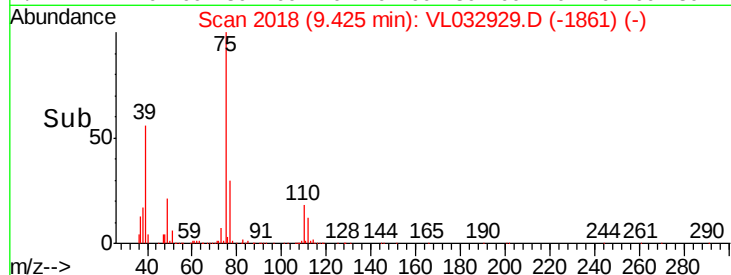
400000

200000

0

9.35 9.40 9.45 9.50

Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.743 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

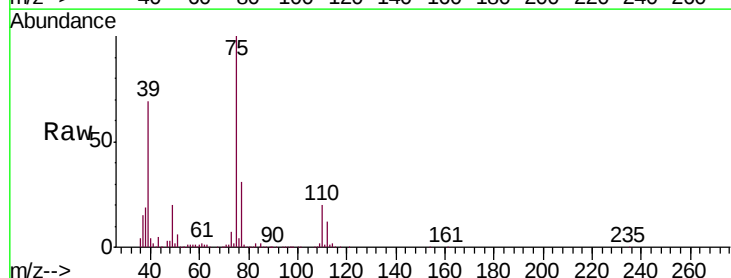
Tgt Ion: 75 Resp: 1348708

Ion Ratio Lower Upper

75 100

39 68.7 52.8 79.2

77 31.1 24.3 36.5



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

800000

600000

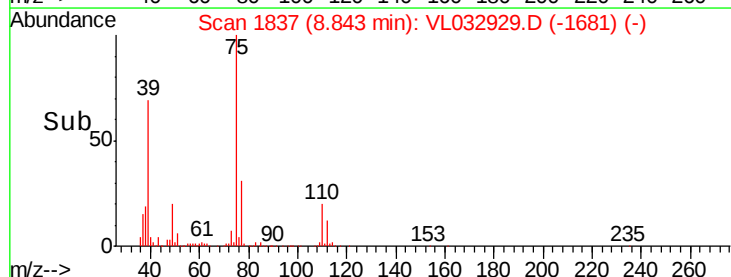
400000

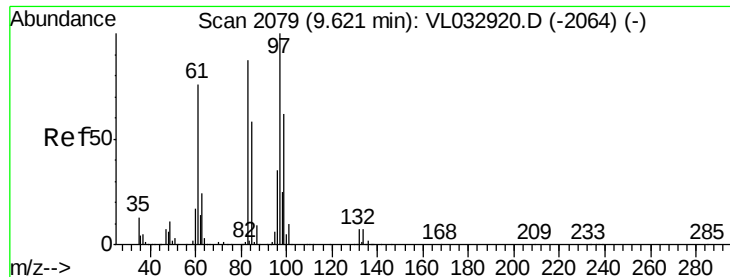
200000

0

8.75 8.80 8.85 8.90

Time-->





#47

1,1,2-Trichloroethane

Concen: 10.211 ppbv

RT: 9.62 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

Tgt Ion: 97 Resp: 962266

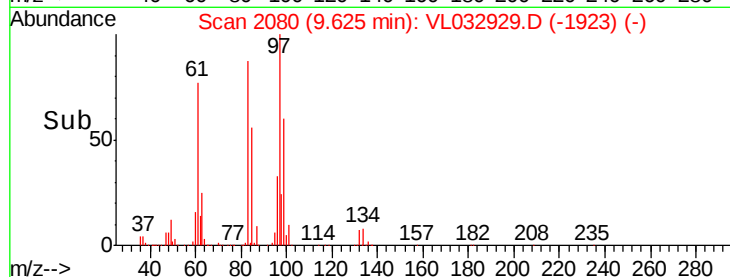
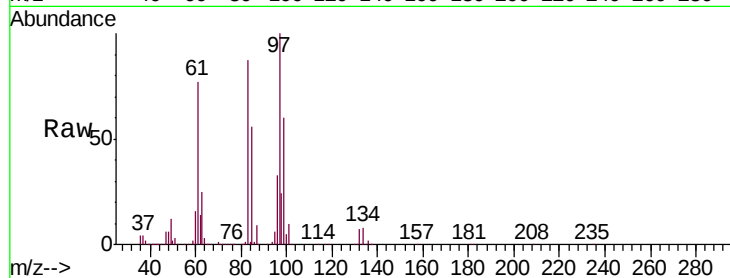
Ion Ratio Lower Upper

97 100

83 86.8 69.8 104.8

85 55.5 46.7 70.1

99 60.1 49.2 73.8

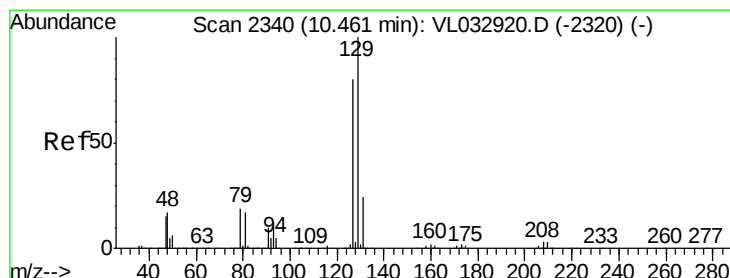
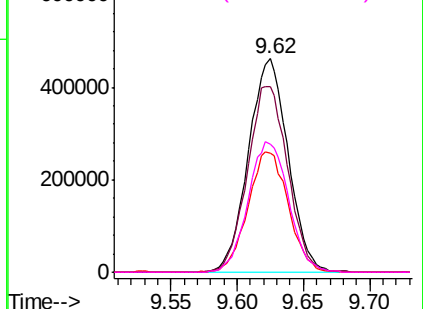


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.345 ppbv

RT: 10.46 min Scan# 2340

Delta R.T. 0.00 min

Lab File: VL032929.D

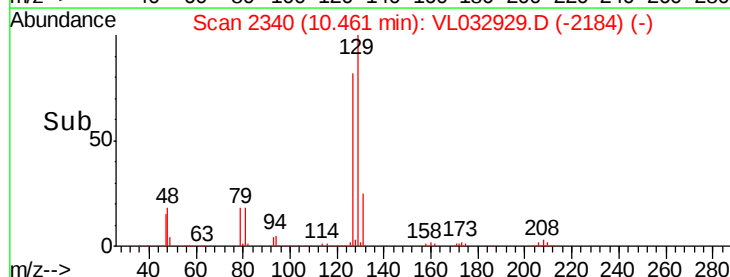
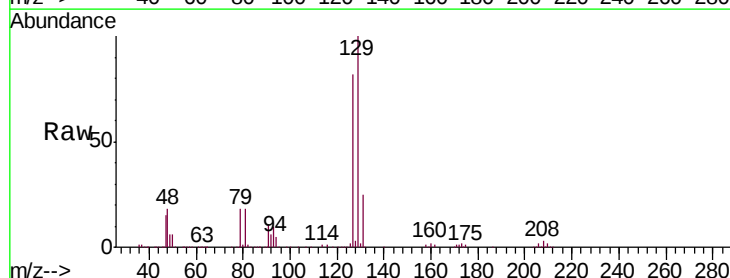
Acq: 7 Dec 2018 11:07

Tgt Ion: 129 Resp: 1828825

Ion Ratio Lower Upper

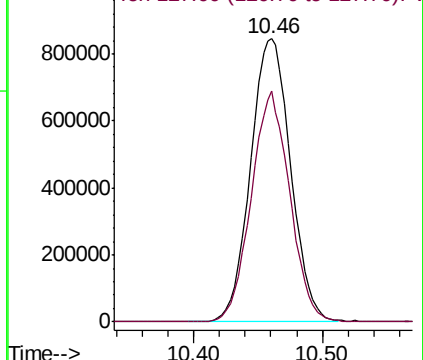
129 100

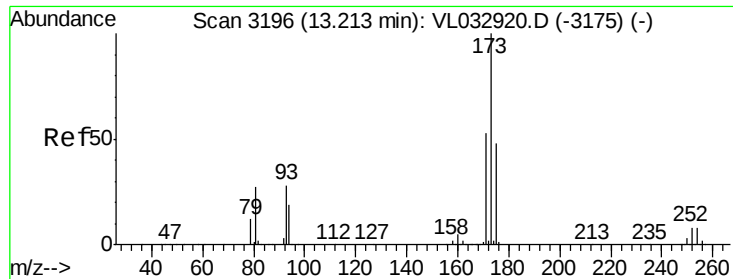
127 78.4 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.829 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

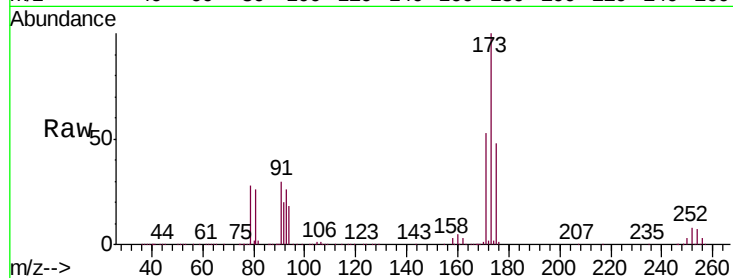
Tgt Ion:173 Resp: 1574582

Ion Ratio Lower Upper

173 100

175 48.9 39.0 58.4

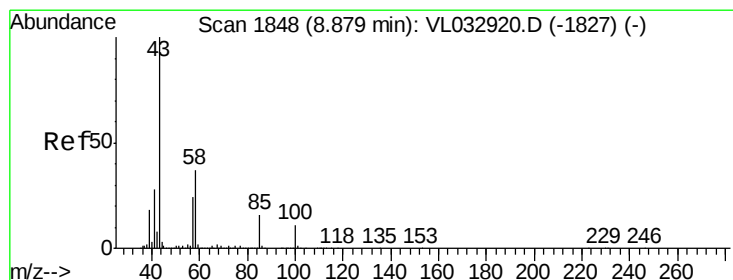
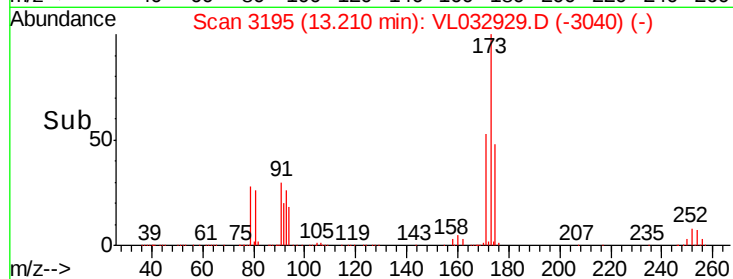
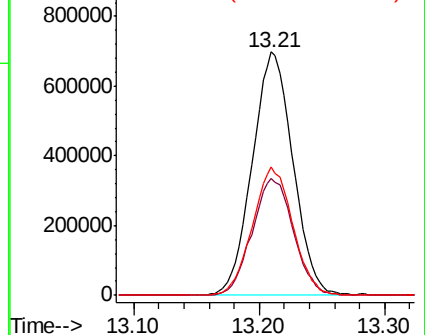
171 52.5 41.5 62.3



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: 9.683 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VL032929.D

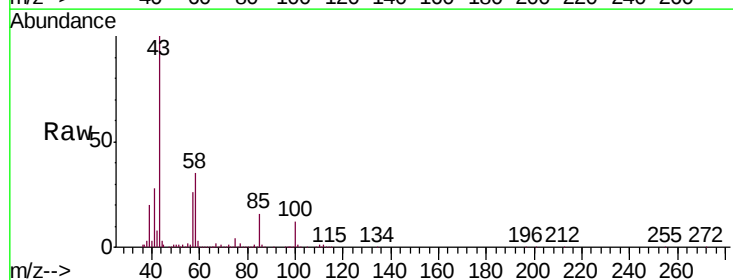
Acq: 7 Dec 2018 11:07

Tgt Ion: 43 Resp: 2070238

Ion Ratio Lower Upper

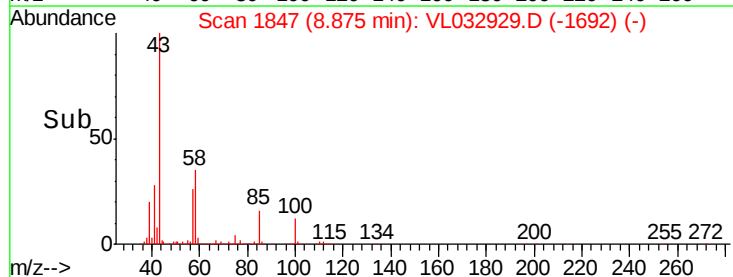
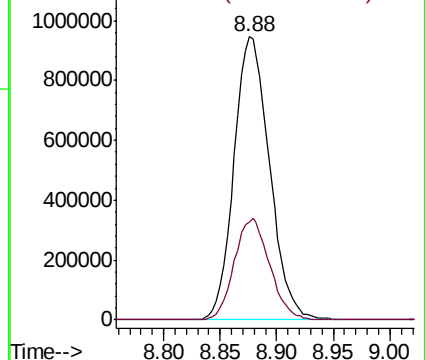
43 100

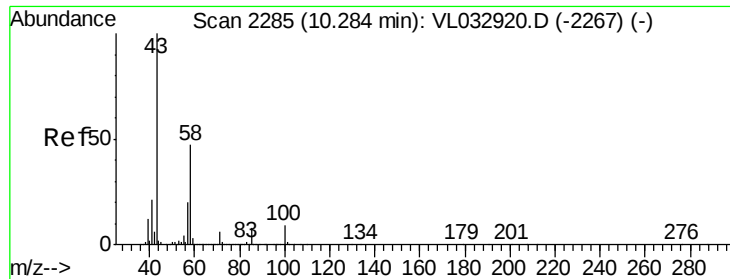
58 35.7 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.502 ppbv

RT: 10.28 min Scan# 2283

Delta R.T. -0.01 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

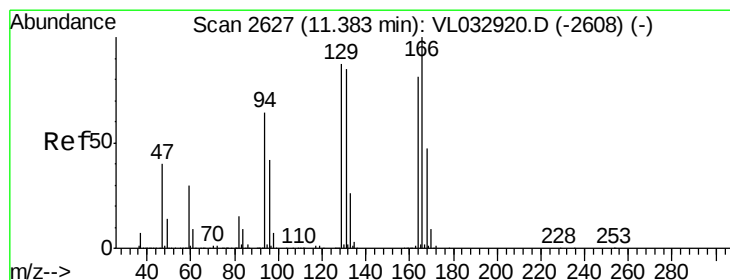
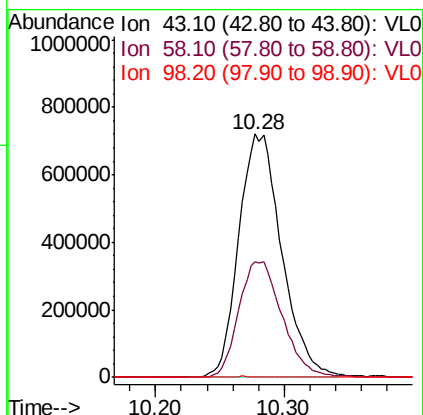
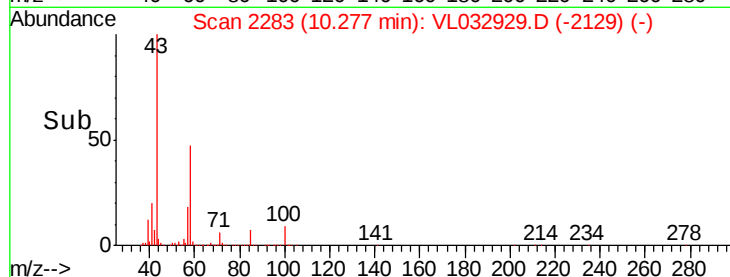
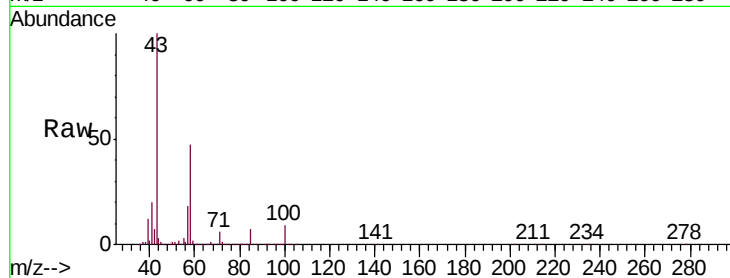
Tgt Ion: 43 Resp: 1667766

Ion Ratio Lower Upper

43 100

58 48.3 38.1 57.1

98 0.3 0.4 0.6#



#52

Tetrachloroethene

Concen: 10.316 ppbv

RT: 11.38 min Scan# 2627

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Tgt Ion: 164 Resp: 847174

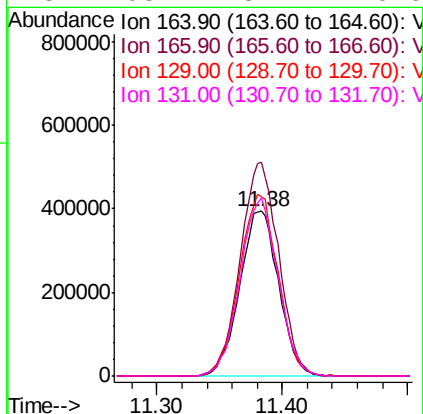
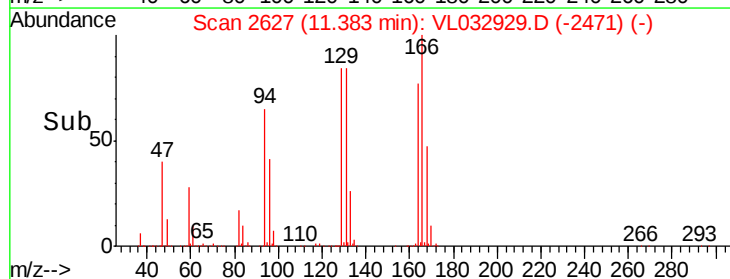
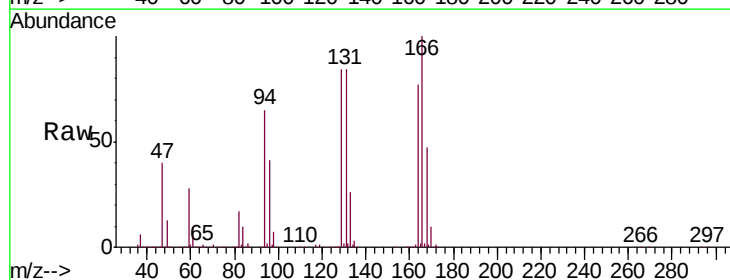
Ion Ratio Lower Upper

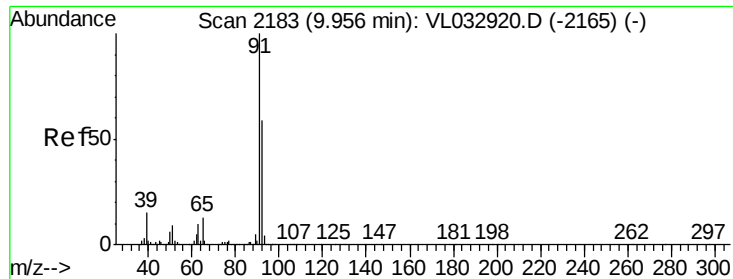
164 100

166 129.4 98.8 148.2

129 108.6 85.5 128.3

131 108.1 84.4 126.6





#53

Toluene

Concen: 11.549 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

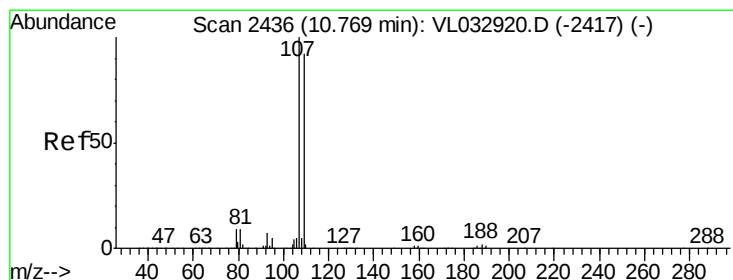
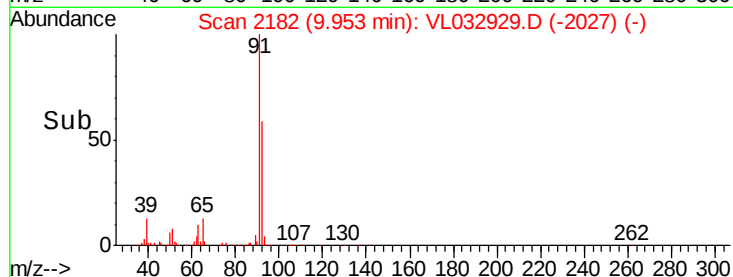
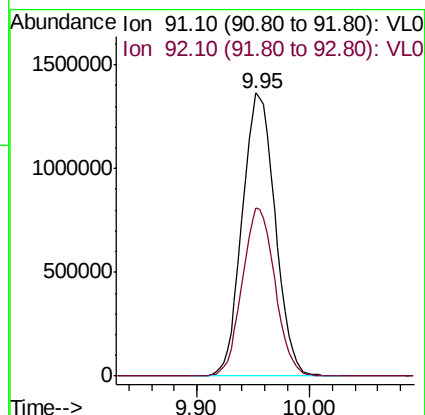
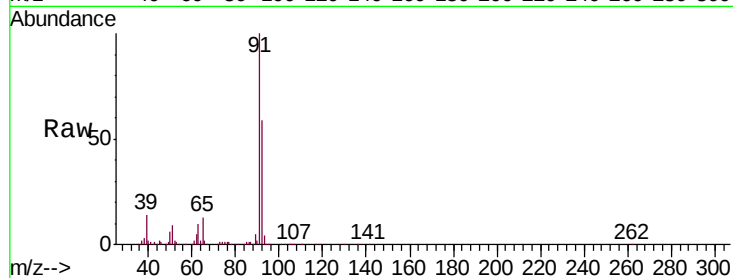
VL1207ABS01

Tgt Ion: 91 Resp: 2765230

Ion Ratio Lower Upper

91 100

92 59.0 47.4 71.0



#54

1,2-Dibromoethane

Concen: 10.631 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL032929.D

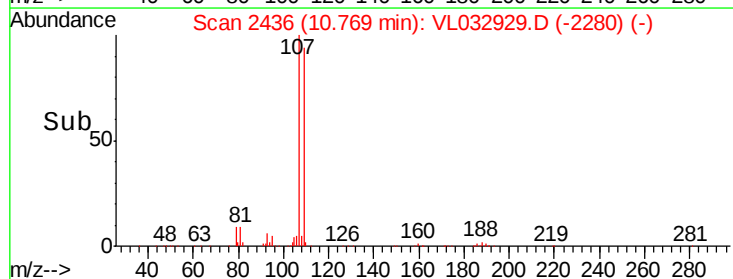
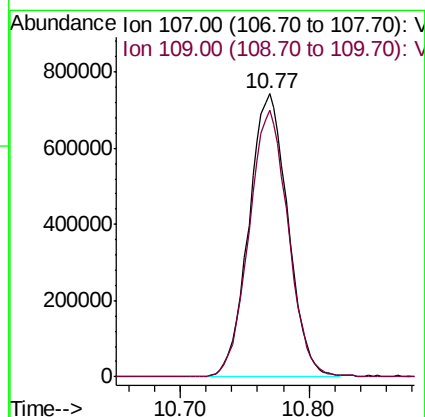
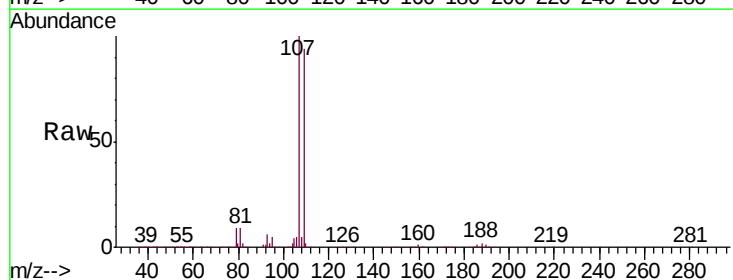
Acq: 7 Dec 2018 11:07

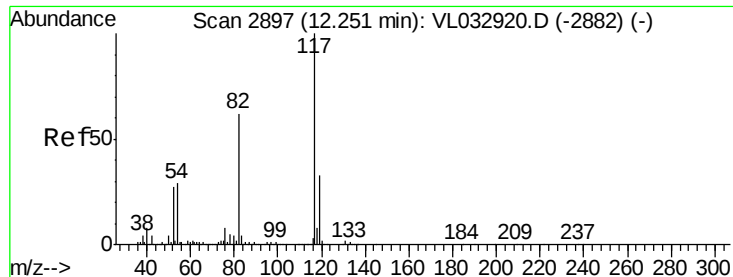
Tgt Ion: 107 Resp: 1565122

Ion Ratio Lower Upper

107 100

109 94.3 73.4 110.2

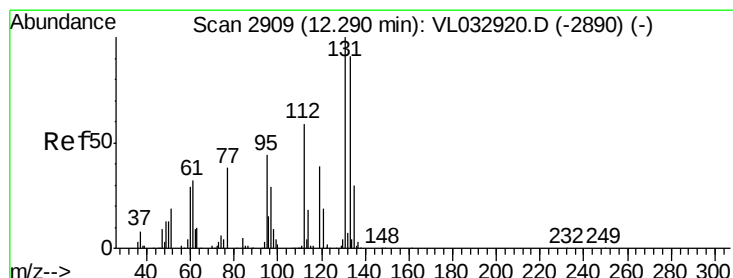
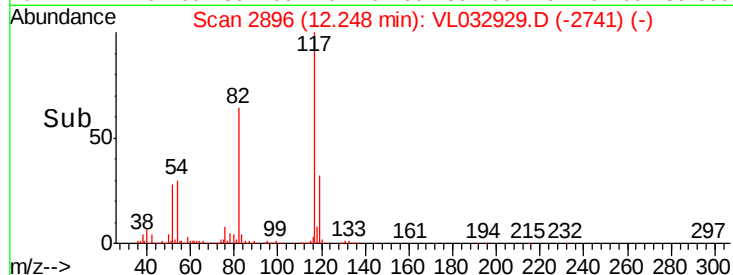
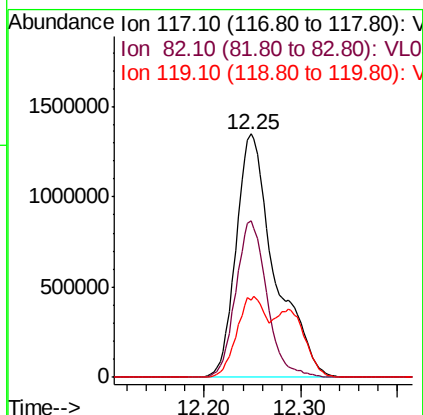
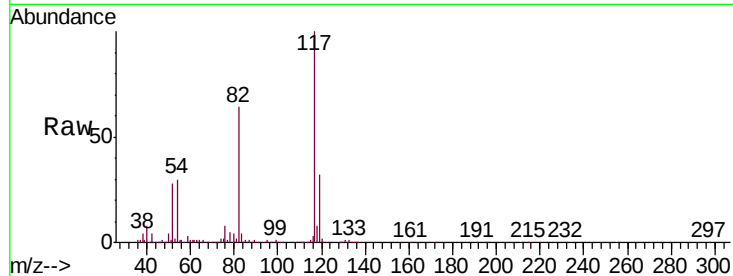




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.25 min Scan# 2896  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

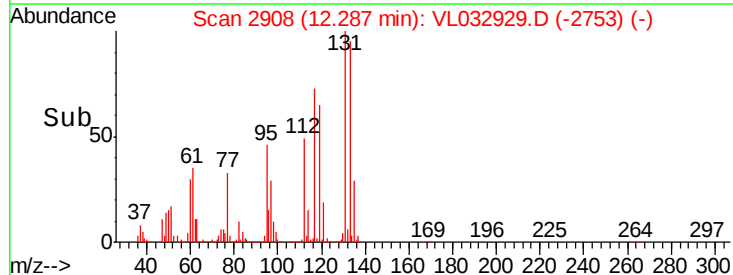
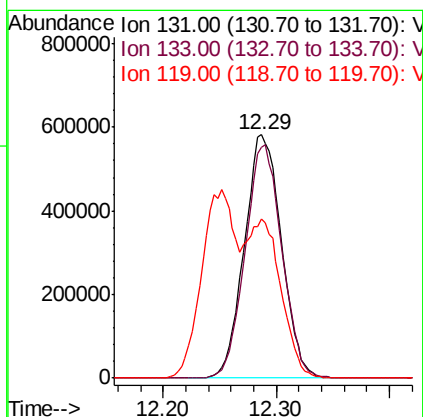
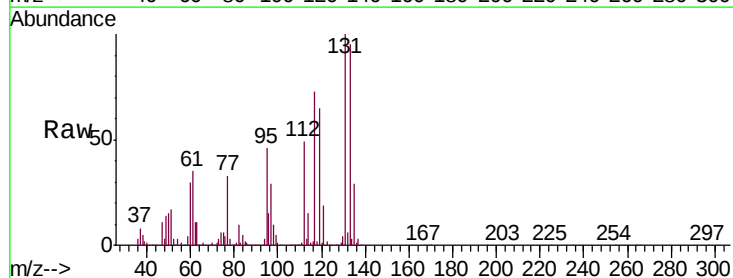
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

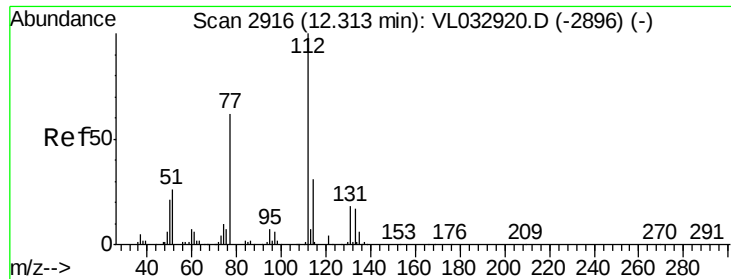
Tgt Ion:117 Resp: 3750918  
Ion Ratio Lower Upper  
117 100  
82 51.9 47.8 71.8  
119 26.7 43.1 64.7#



#56  
1,1,1,2-Tetrachloroethane  
Concen: 7.942 ppbv  
RT: 12.29 min Scan# 2908  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion:131 Resp: 1328151  
Ion Ratio Lower Upper  
131 100  
133 94.6 75.1 112.7  
119 57.6 47.5 71.3





#57

Chlorobenzene

Concen: 7.879 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

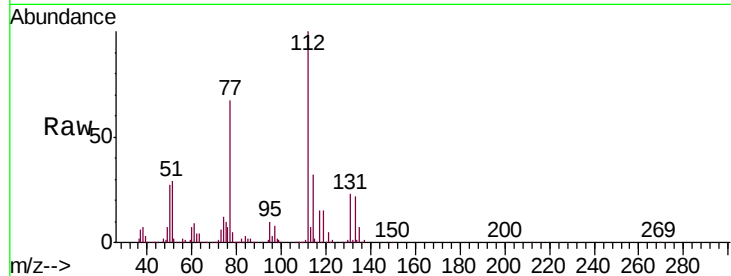
Tgt Ion: 112 Resp: 2134596

Ion Ratio Lower Upper

112 100

77 66.4 51.1 76.7

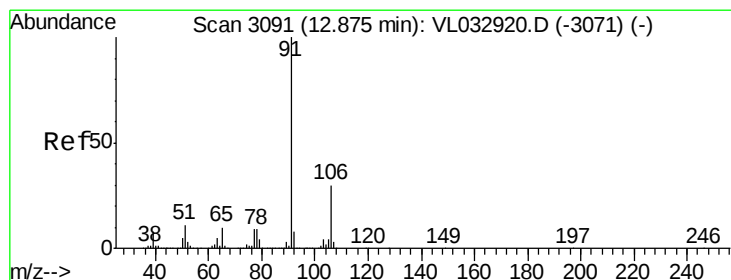
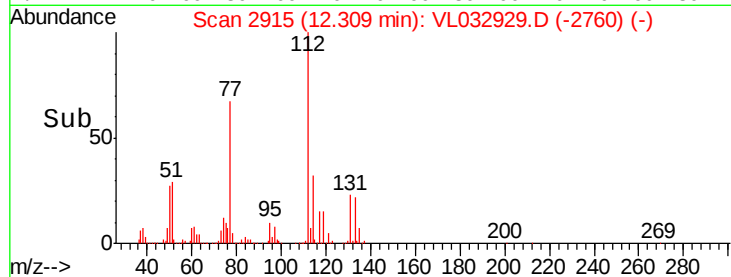
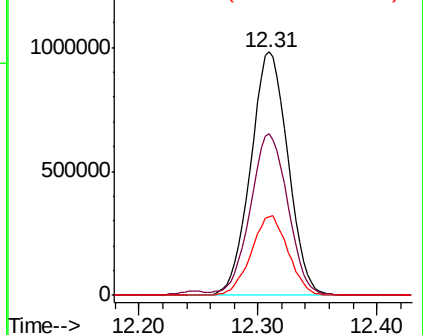
114 32.3 28.4 34.7



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: 9.436 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032929.D

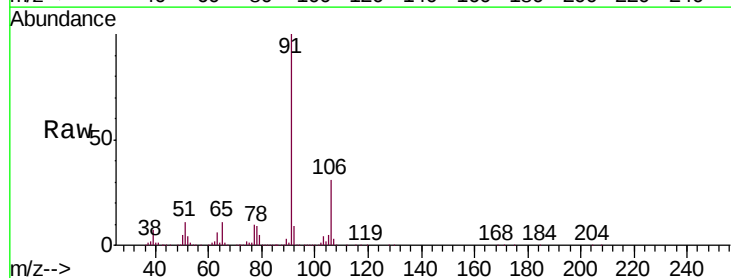
Acq: 7 Dec 2018 11:07

Tgt Ion: 91 Resp: 3775633

Ion Ratio Lower Upper

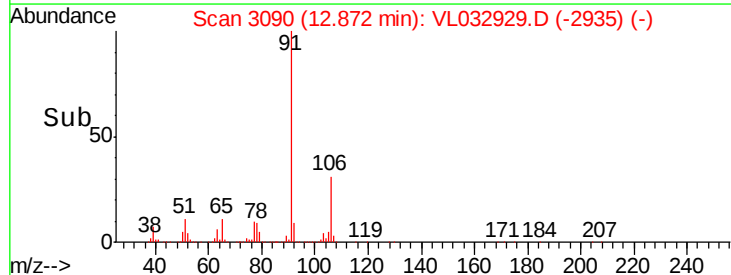
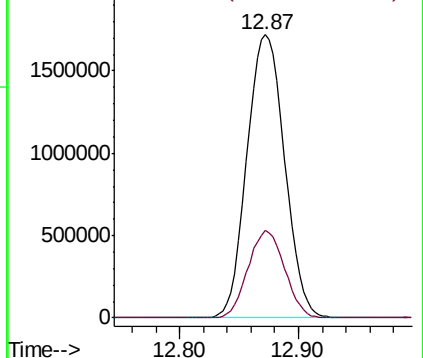
91 100

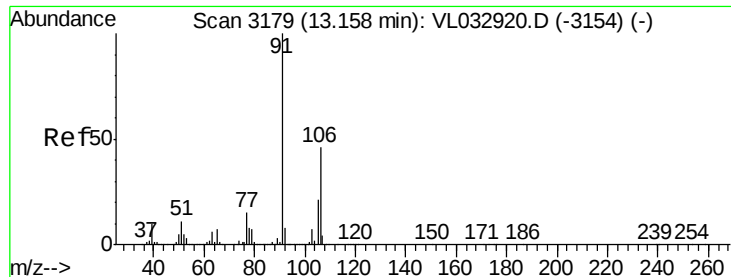
106 31.1 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

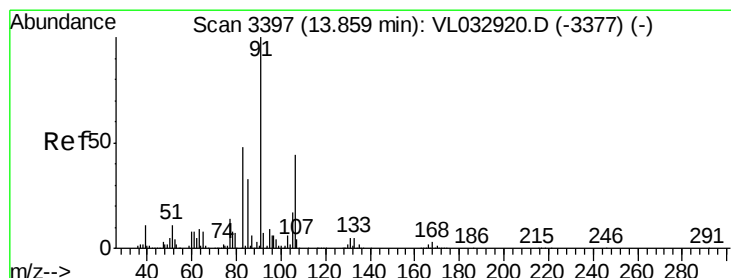
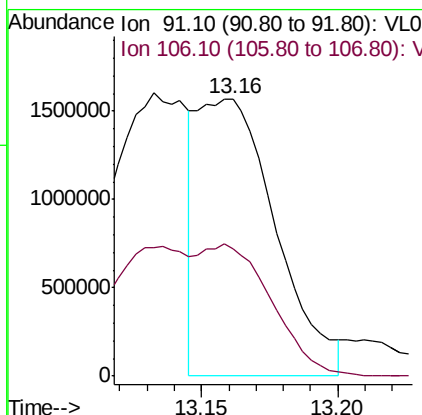
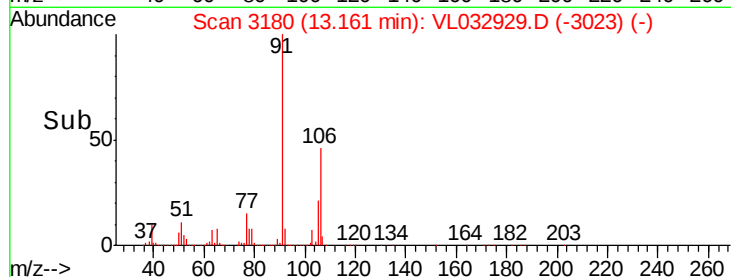
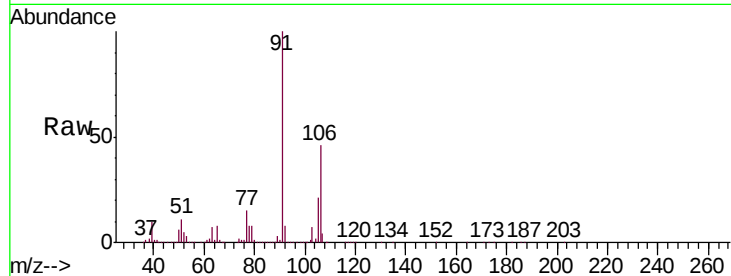




#59  
m/p-Xylene  
Concen: 8.573 ppbv  
RT: 13.16 min Scan# 3180  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

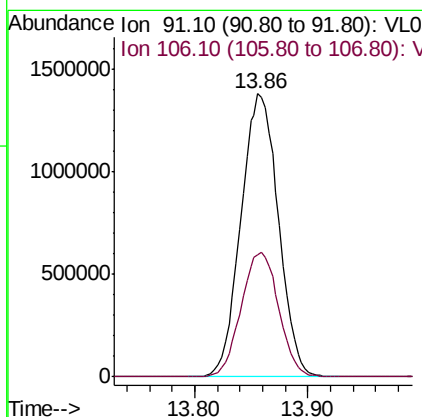
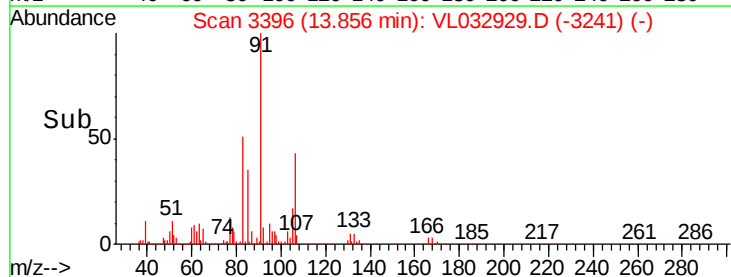
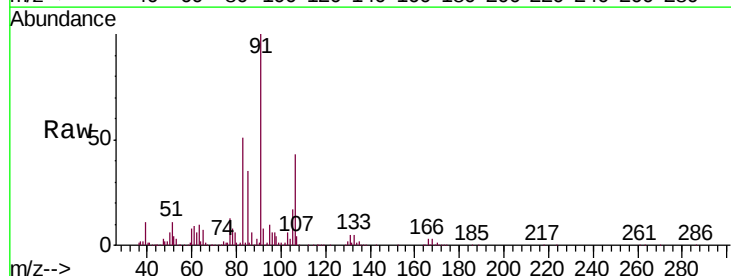
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

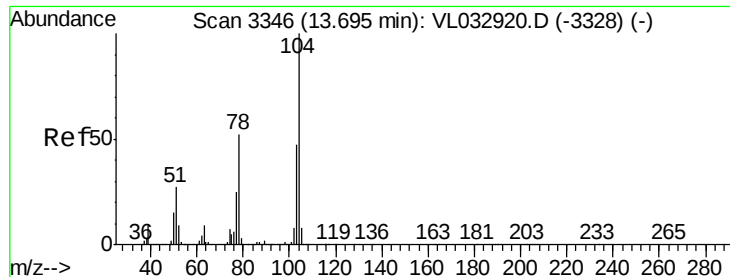
Tgt Ion: 91 Resp: 3109971  
Ion Ratio Lower Upper  
91 100  
106 93.6 0.0 0.0#



#60  
o-Xylene  
Concen: 8.671 ppbv  
RT: 13.86 min Scan# 3396  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion: 91 Resp: 3176834  
Ion Ratio Lower Upper  
91 100  
106 44.2 21.9 65.8





#61

Styrene

Concen: 9.982 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

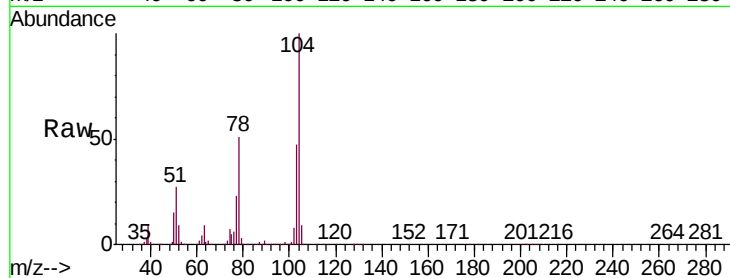
Tgt Ion:104 Resp: 2432702

Ion Ratio Lower Upper

104 100

78 52.5 42.0 63.0

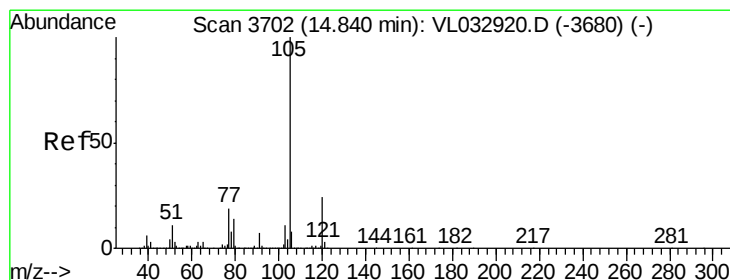
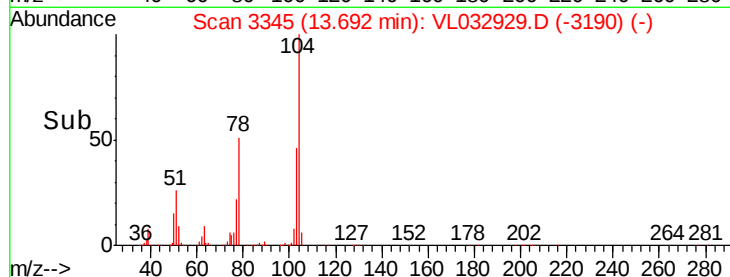
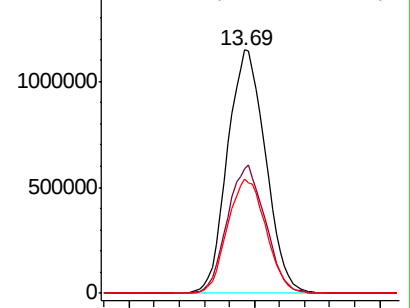
103 47.6 38.3 57.5



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: 8.681 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. -0.00 min

Lab File: VL032929.D

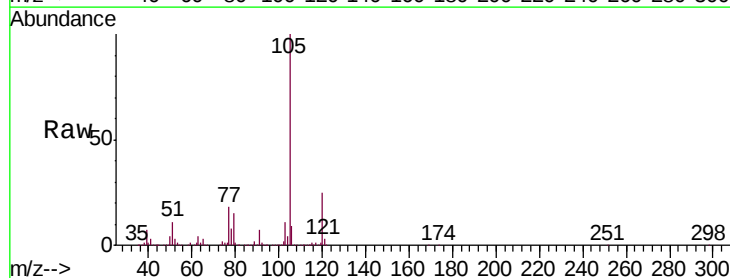
Acq: 7 Dec 2018 11:07

Tgt Ion:105 Resp: 4437252

Ion Ratio Lower Upper

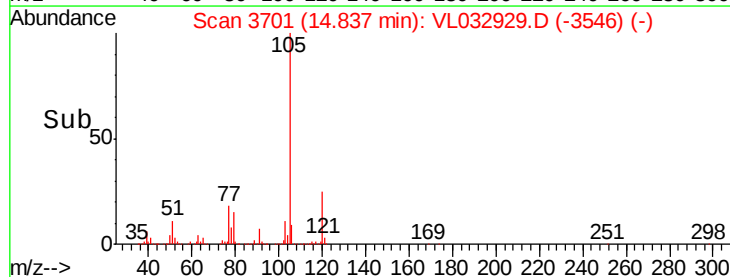
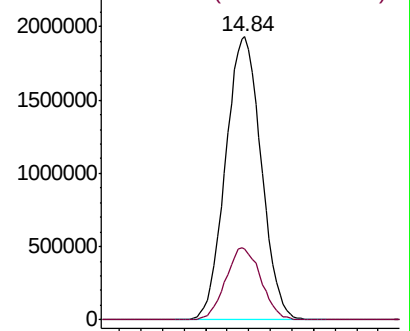
105 100

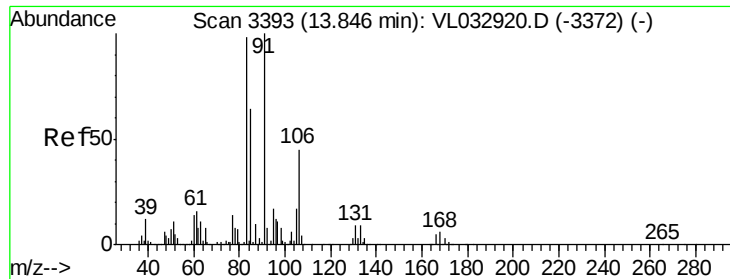
120 25.2 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

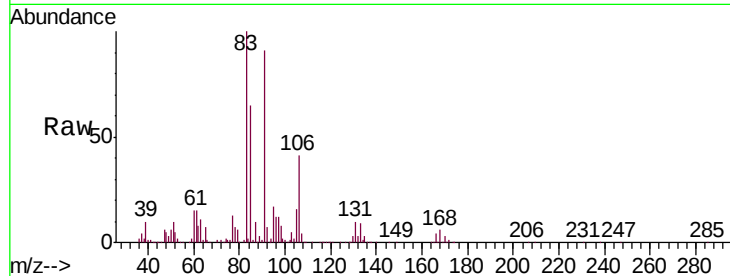




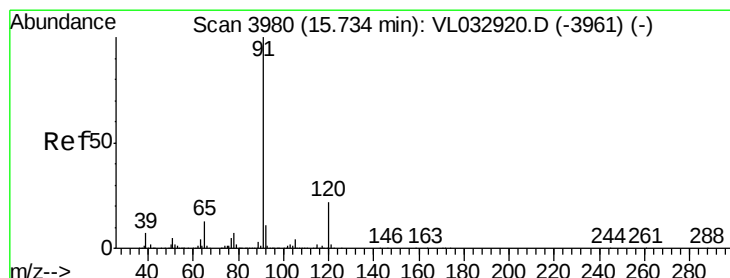
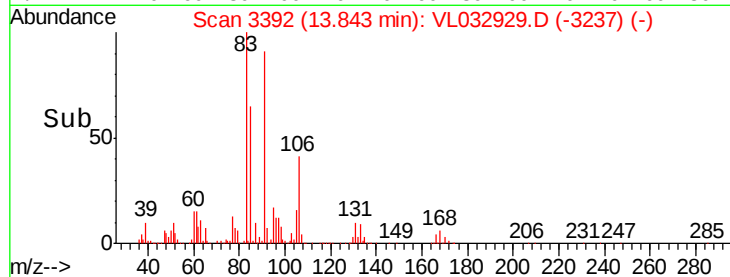
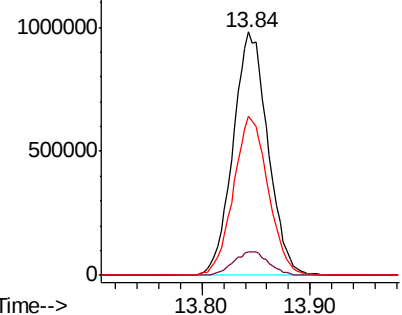
#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 7.742 ppbv  
 RT: 13.84 min Scan# 3392  
 Delta R.T. -0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1207ABS01

Tgt Ion: 83 Resp: 2202340  
 Ion Ratio Lower Upper  
 83 100  
 131 9.9 4.9 14.6  
 85 65.3 32.9 98.6

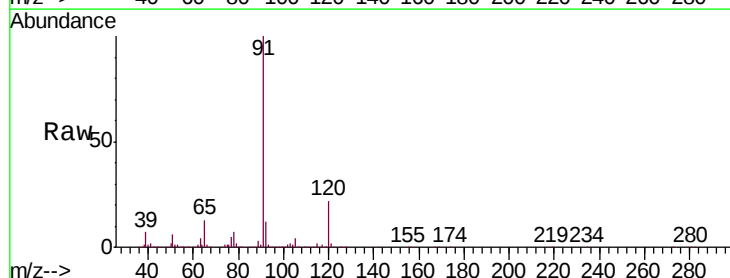


Abundance Ion 83.00 (82.70 to 83.70): VL0  
 Ion 131.00 (130.70 to 131.70): V  
 Ion 85.00 (84.70 to 85.70): VL0

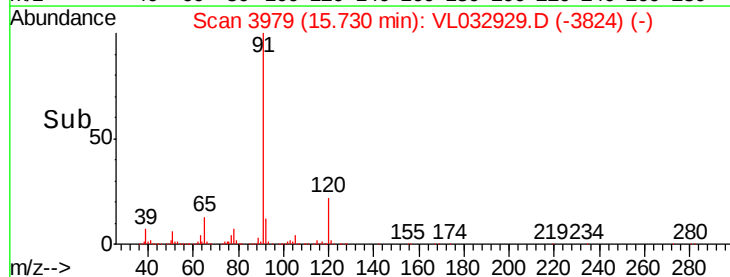
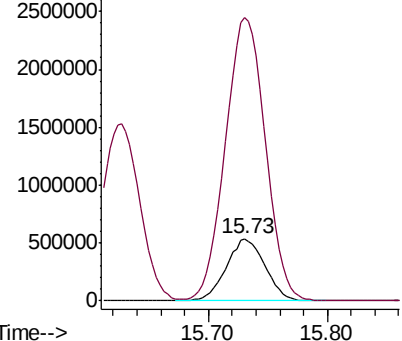


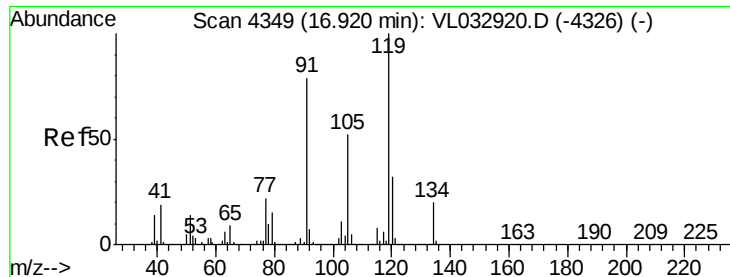
#64  
 n-propylbenzene  
 Concen: 9.076 ppbv  
 RT: 15.73 min Scan# 3979  
 Delta R.T. -0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

Tgt Ion: 120 Resp: 1204923  
 Ion Ratio Lower Upper  
 120 100  
 91 473.8 380.4 570.6



Abundance Ion 120.20 (119.90 to 120.90): V  
 Ion 91.10 (90.80 to 91.80): VL0

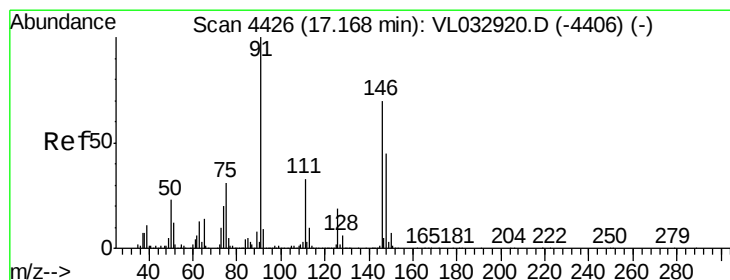
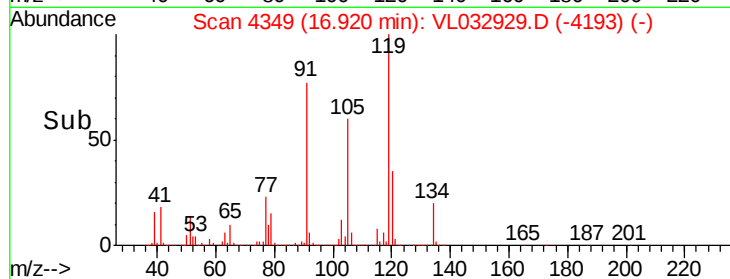
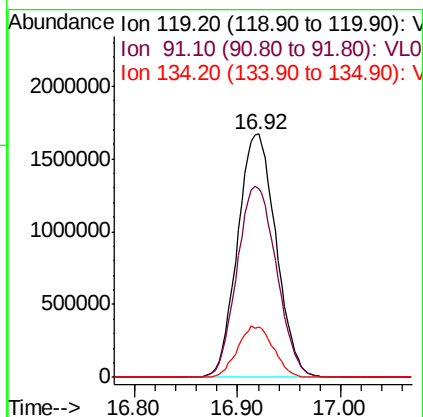
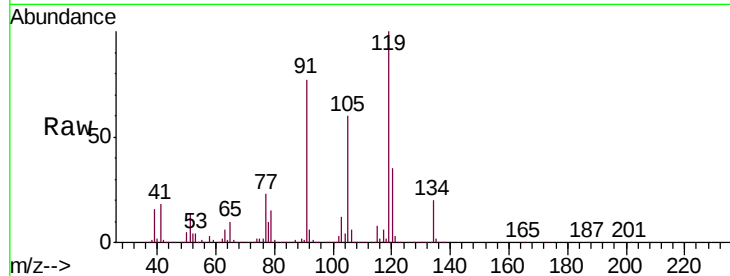




#65  
tert-Butylbenzene  
Concen: 9.115 ppbv  
RT: 16.92 min Scan# 4349  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

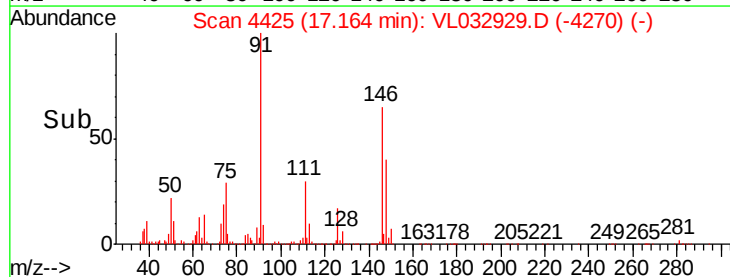
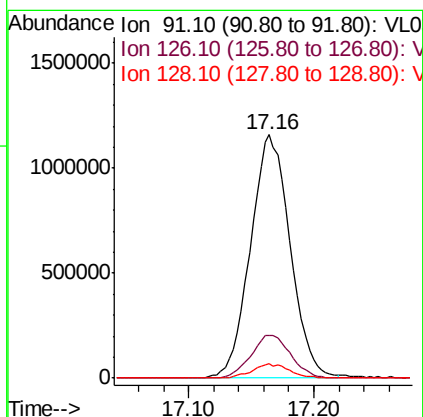
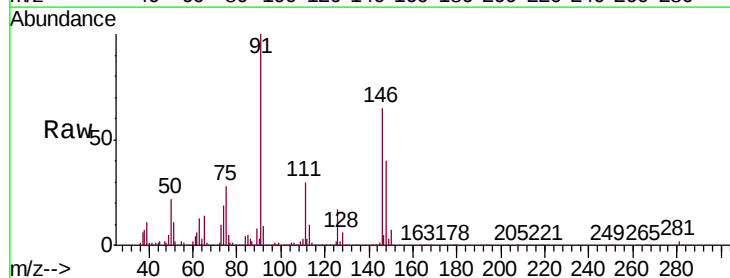
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

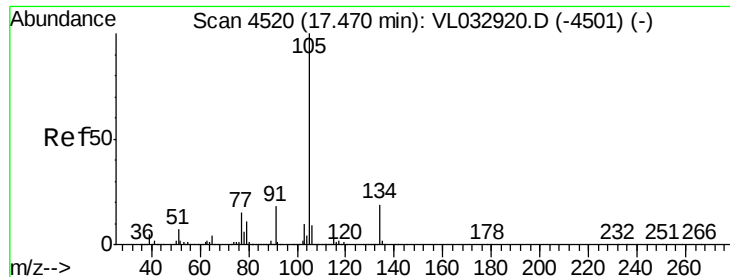
Tgt Ion: 119 Resp: 4319207  
Ion Ratio Lower Upper  
119 100  
91 81.1 64.5 96.7  
134 19.8 15.7 23.5



#66  
Benzyl Chloride  
Concen: 9.708 ppbv  
RT: 17.16 min Scan# 4425  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion: 91 Resp: 2549793  
Ion Ratio Lower Upper  
91 100  
126 17.8 14.1 21.1  
128 5.6 4.5 6.7





#67

sec-Butylbenzene

Concen: 8.688 ppbv

RT: 17.47 min Scan# 4519

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

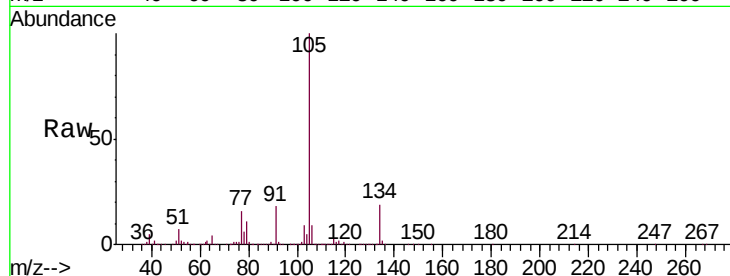
VL1207ABS01

Tgt Ion: 105 Resp: 6069426

Ion Ratio Lower Upper

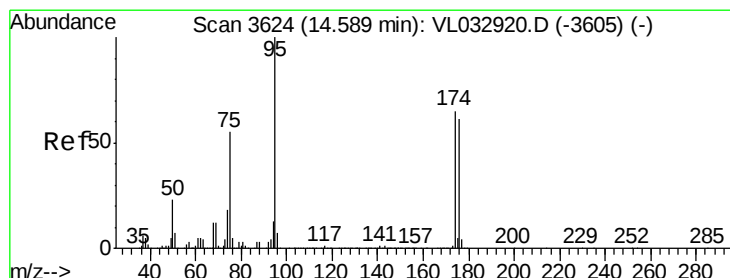
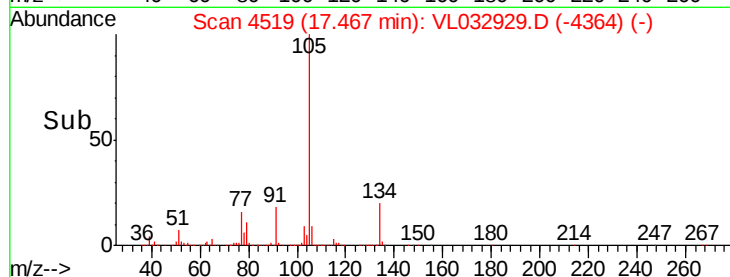
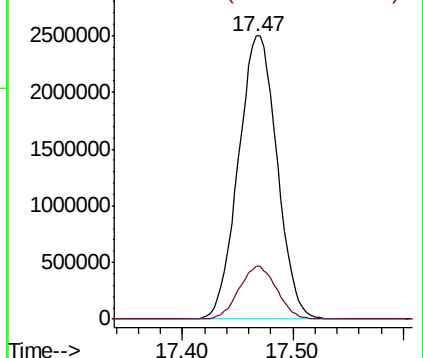
105 100

134 18.2 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.329 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

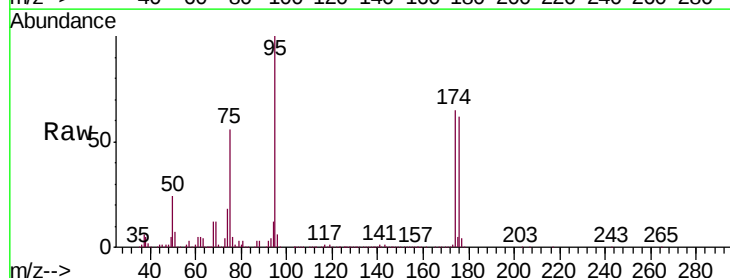
Tgt Ion: 95 Resp: 2308146

Ion Ratio Lower Upper

95 100

174 64.8 51.4 77.0

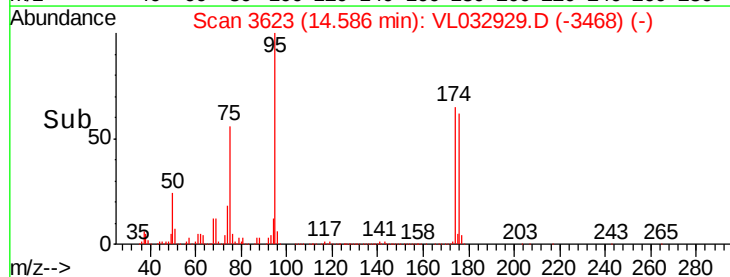
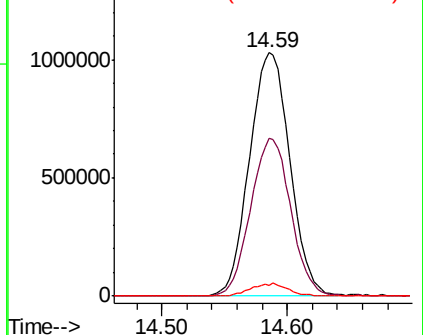
175 4.8 3.8 5.6

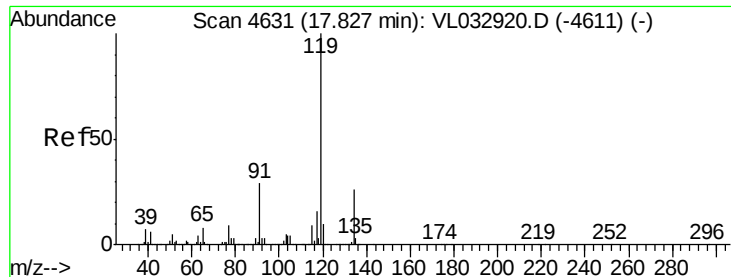


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

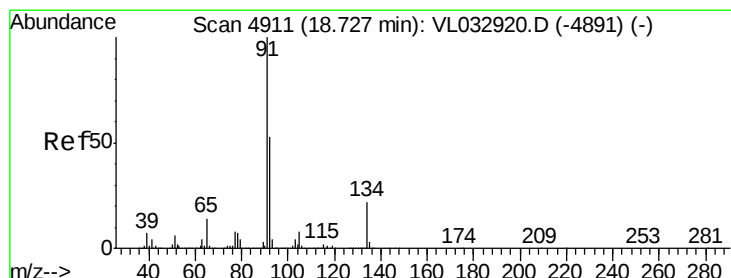
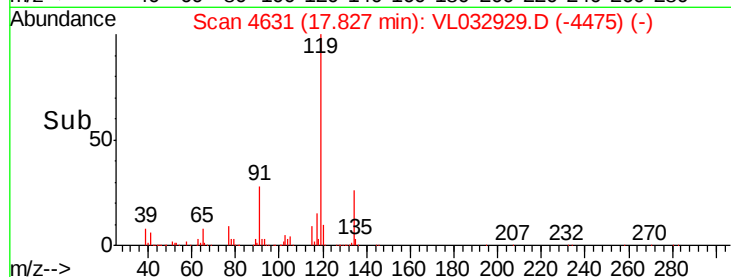
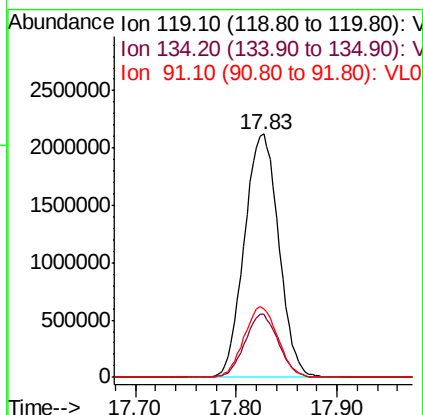
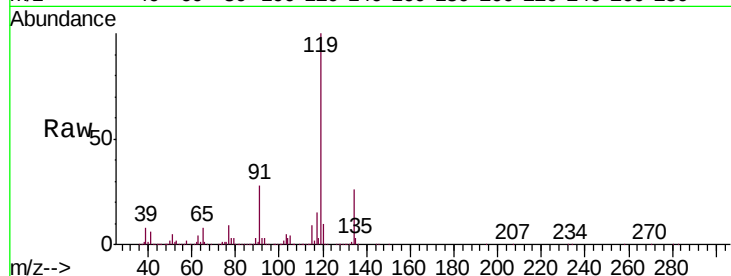




#69  
p-Isopropyltoluene  
Concen: 8.850 ppbv  
RT: 17.83 min Scan# 4631  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

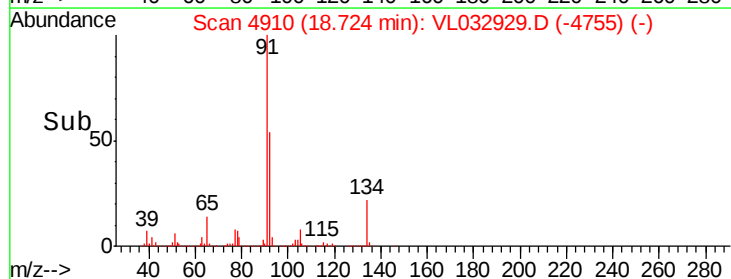
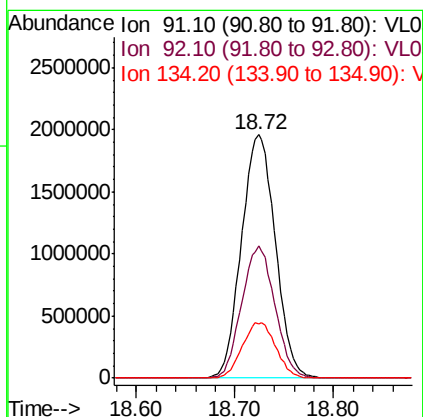
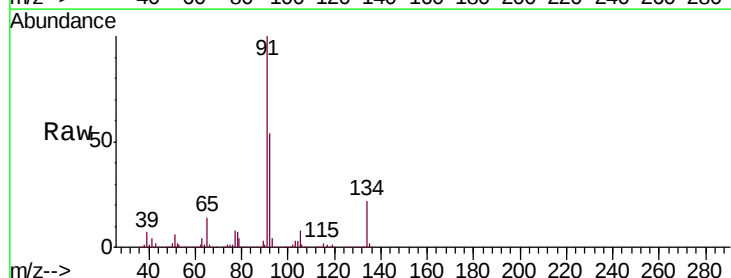
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

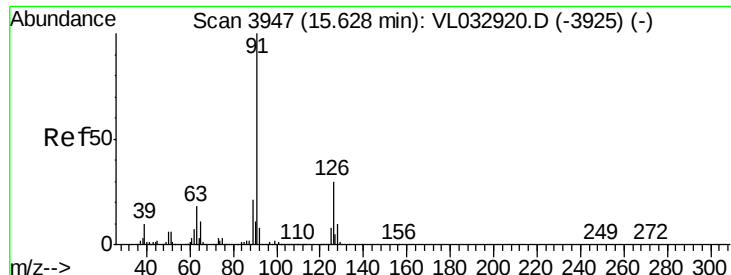
Tgt Ion: 119 Resp: 5010638  
Ion Ratio Lower Upper  
119 100  
134 25.1 20.2 30.2  
91 28.6 22.9 34.3



#70  
n-Butylbenzene  
Concen: 8.925 ppbv  
RT: 18.72 min Scan# 4910  
Delta R.T. -0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion: 91 Resp: 4648918  
Ion Ratio Lower Upper  
91 100  
92 53.4 42.7 64.1  
134 22.6 18.0 27.0

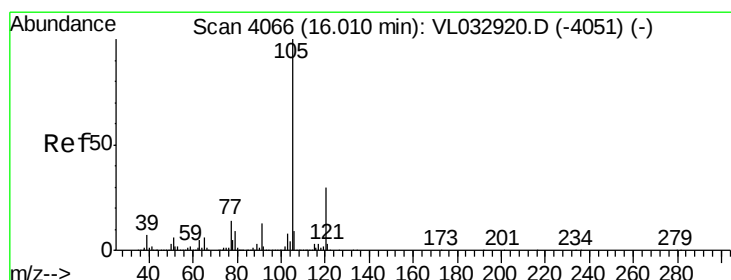
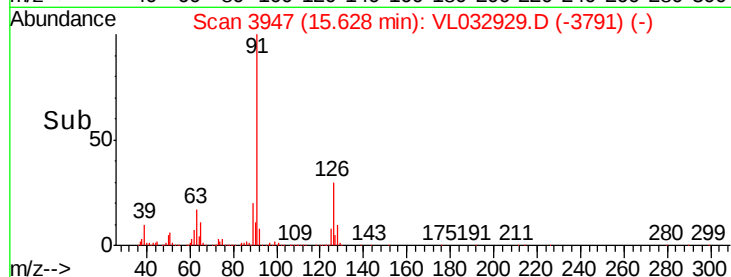
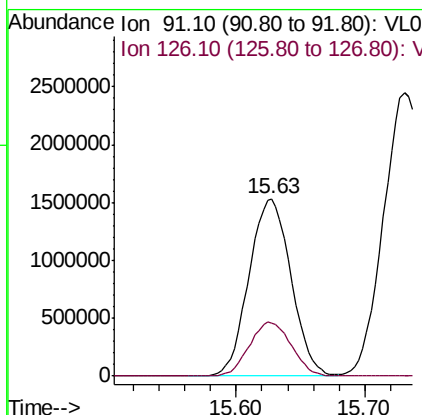
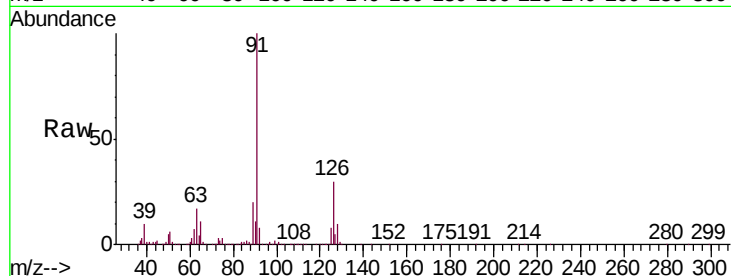




#71  
 2-Chlorotoluene  
 Concen: 9.180 ppbv  
 RT: 15.63 min Scan# 3947  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

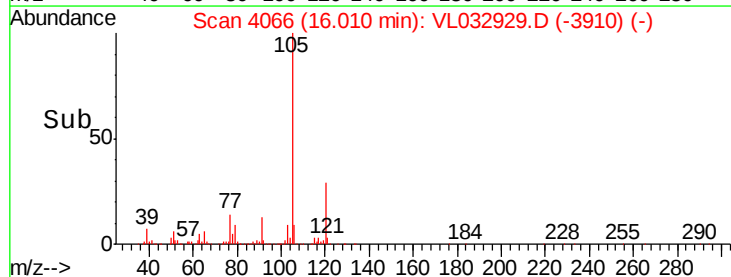
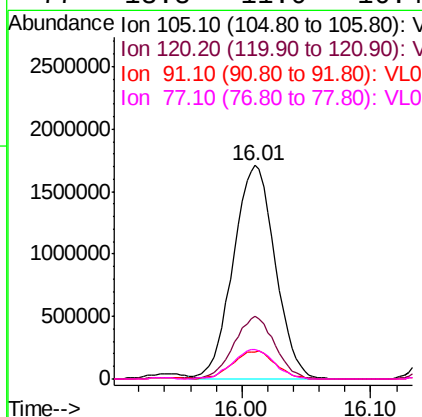
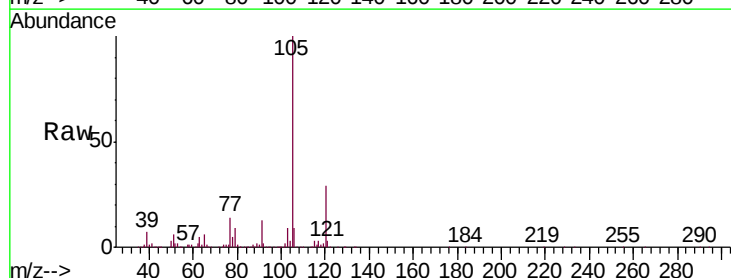
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1207ABS01

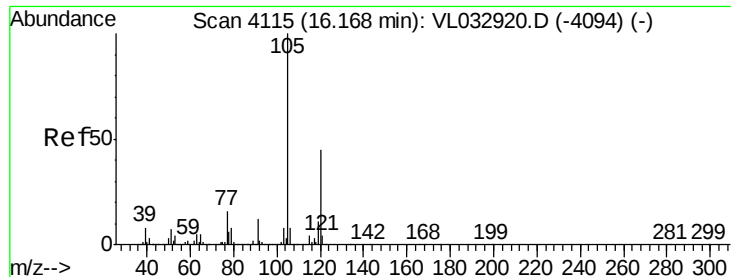
Tgt Ion: 91 Resp: 3489599  
 Ion Ratio Lower Upper  
 91 100  
 126 30.4 12.3 49.3



#72  
 4-Ethyltoluene  
 Concen: 9.411 ppbv  
 RT: 16.01 min Scan# 4066  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

Tgt Ion: 105 Resp: 3849085  
 Ion Ratio Lower Upper  
 105 100  
 120 28.7 23.0 34.4  
 91 13.2 10.4 15.6  
 77 13.8 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 8.701 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

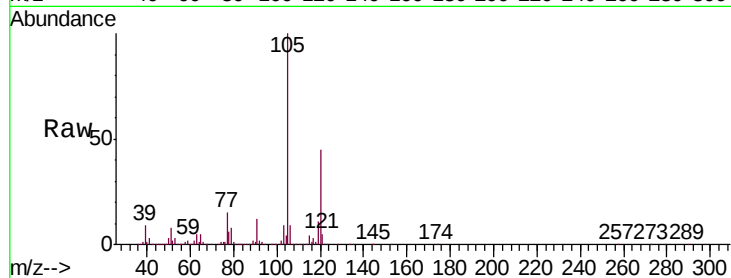
VL1207ABS01

Tgt Ion:105 Resp: 3474179

Ion Ratio Lower Upper

105 100

120 45.0 36.0 54.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.17

1500000

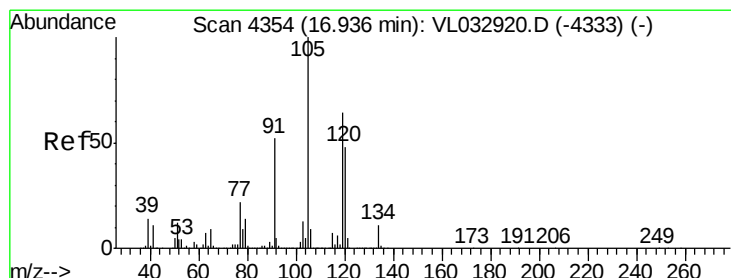
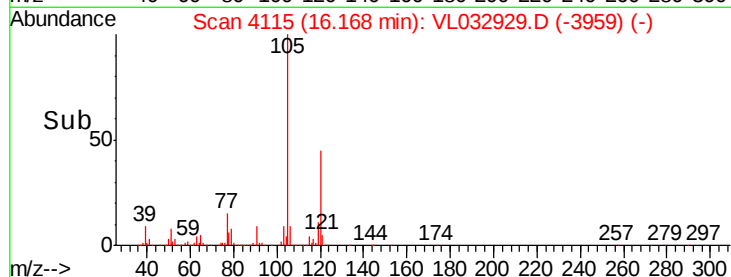
1000000

500000

0

Time-->

16.10 16.20



#74

1,2,4-Trimethylbenzene

Concen: 8.749 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Tgt Ion:105 Resp: 3944419

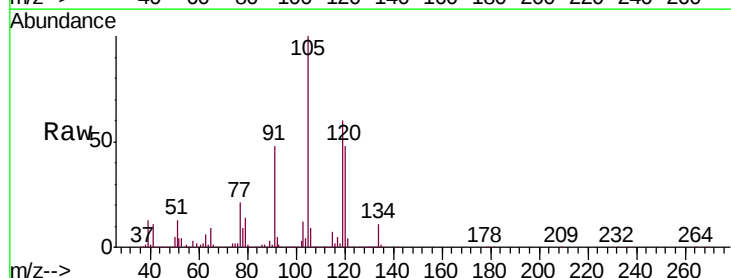
Ion Ratio Lower Upper

105 100

120 48.1 38.6 58.0

91 47.7 41.7 62.5

77 20.9 17.4 26.2



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): VLO

Ion 77.10 (76.80 to 77.80): VLO

2500000

2000000

1500000

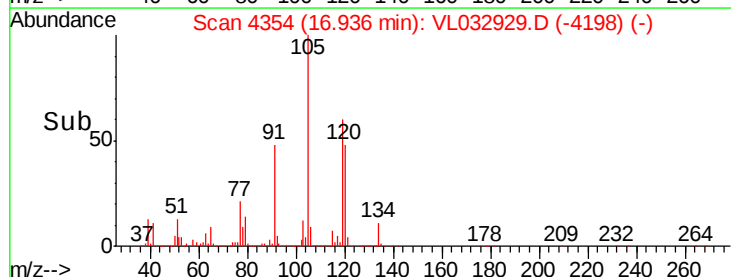
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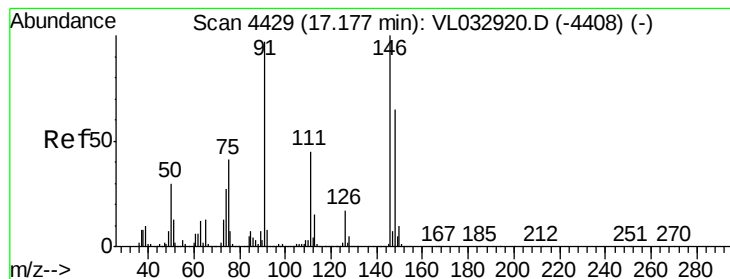
500000

0

Time-->

16.80 16.90 17.00





#75

1,3-Dichlorobenzene

Concen: 8.244 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. -0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

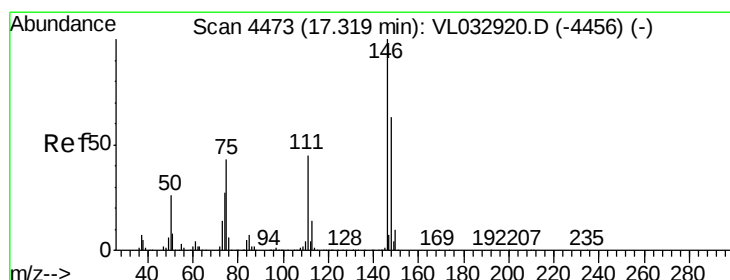
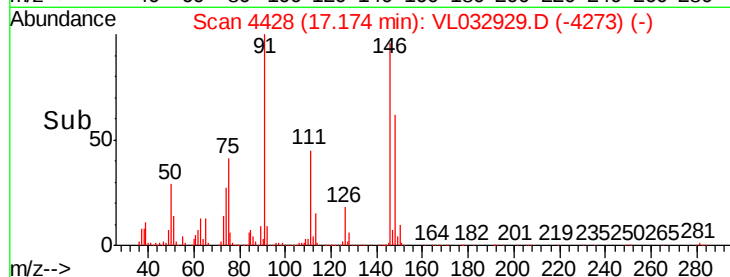
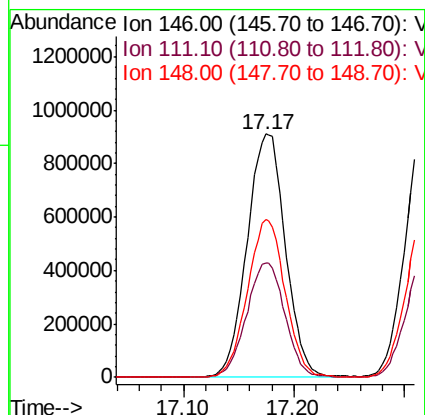
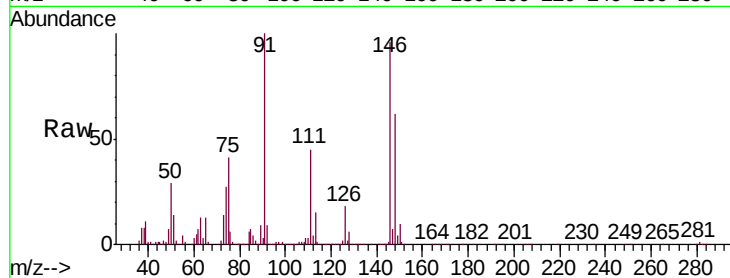
Tgt Ion:146 Resp: 2188778

Ion Ratio Lower Upper

146 100

111 47.3 23.6 70.8

148 64.1 32.1 96.3



#76

1,4-Dichlorobenzene

Concen: 8.569 ppbv

RT: 17.32 min Scan# 4473

Delta R.T. 0.00 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

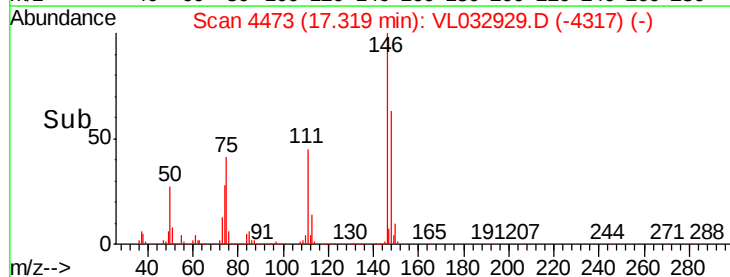
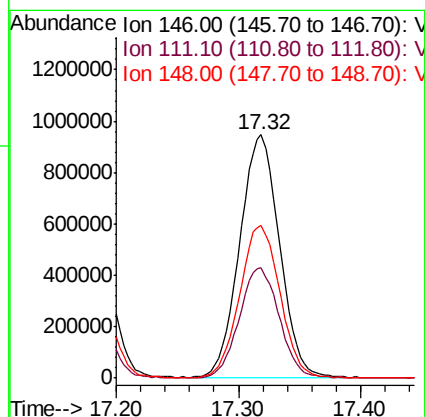
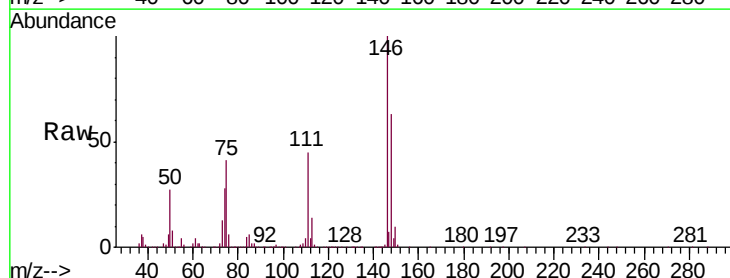
Tgt Ion:146 Resp: 2123045

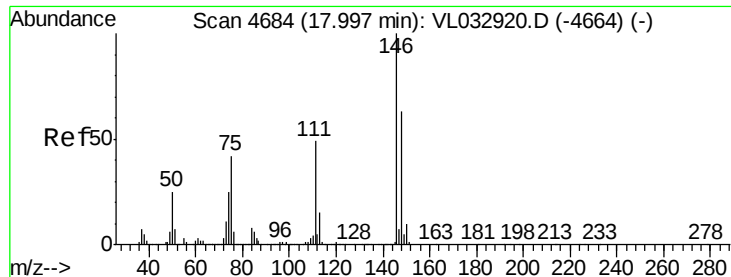
Ion Ratio Lower Upper

146 100

111 45.9 22.8 68.4

148 64.3 32.0 96.2

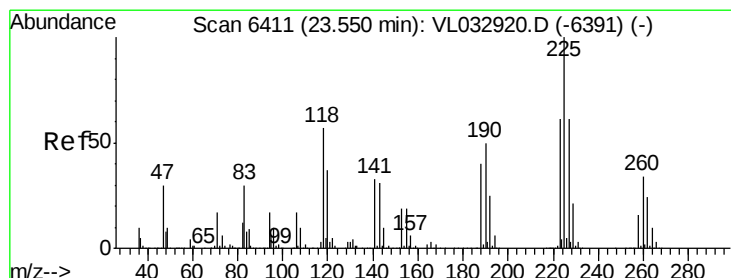
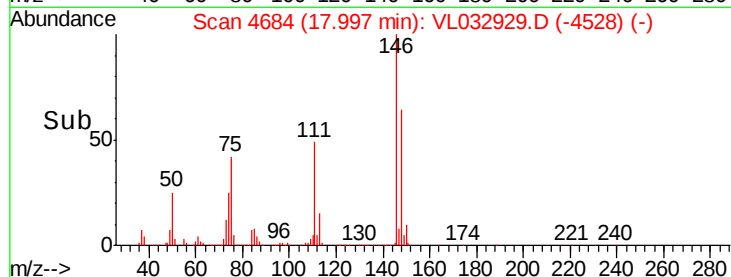
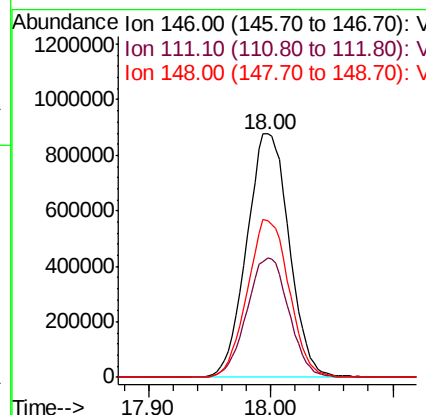
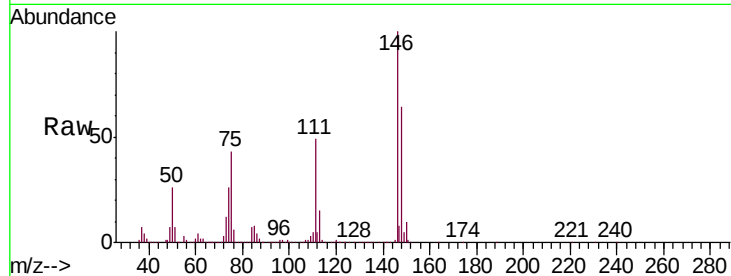




#77  
 1,2-Dichlorobenzene  
 Concen: 8.465 ppbv  
 RT: 18.00 min Scan# 4684  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

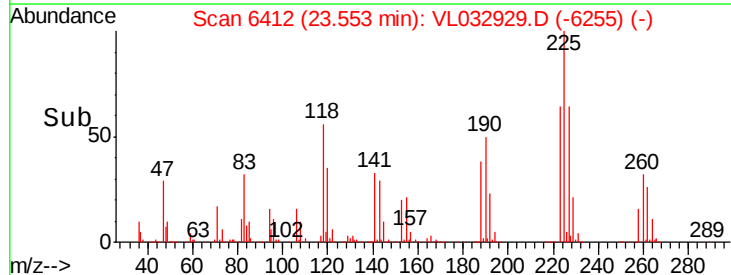
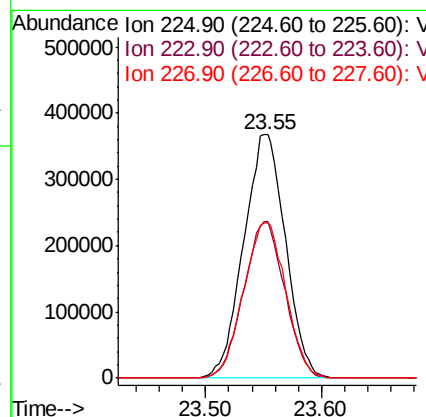
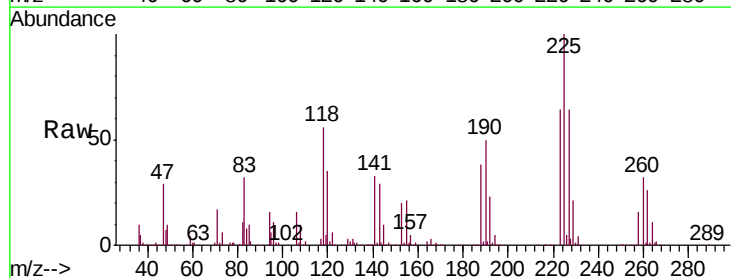
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1207ABS01

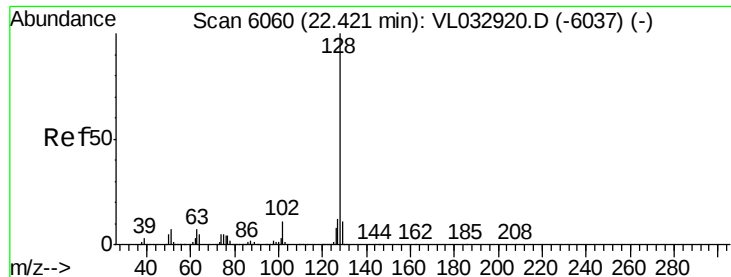
Tgt Ion:146 Resp: 2098933  
 Ion Ratio Lower Upper  
 146 100  
 111 49.0 24.3 72.9  
 148 64.4 32.0 96.2



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 6.767 ppbv  
 RT: 23.55 min Scan# 6412  
 Delta R.T. 0.00 min  
 Lab File: VL032929.D  
 Acq: 7 Dec 2018 11:07

Tgt Ion:225 Resp: 922676  
 Ion Ratio Lower Upper  
 225 100  
 223 63.4 50.6 75.8  
 227 64.3 50.4 75.6

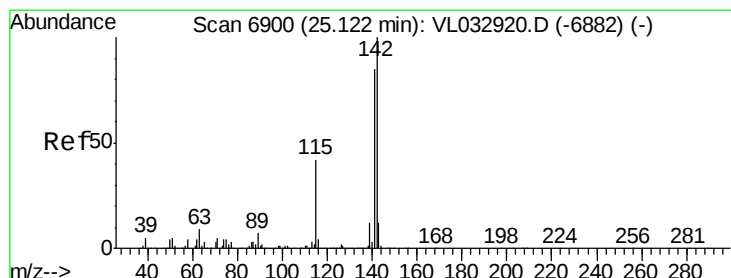
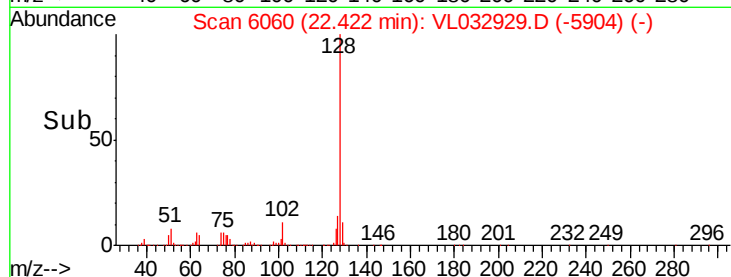
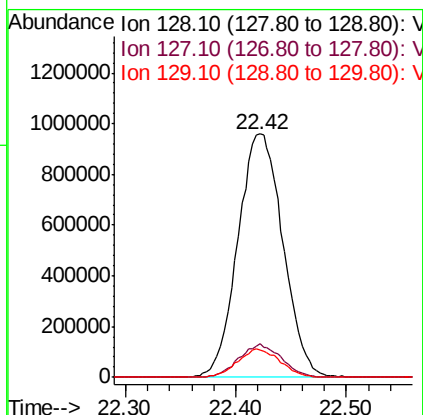
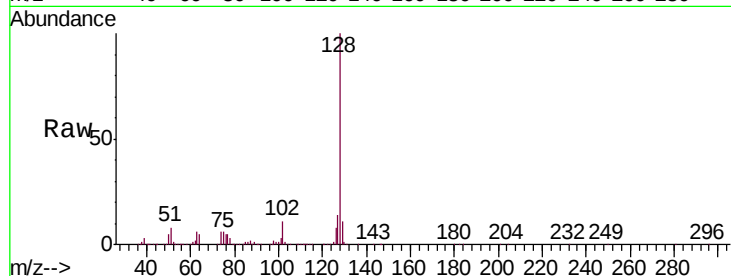




#79  
Naphthalene  
Concen: 9.275 ppbv  
RT: 22.42 min Scan# 6060  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

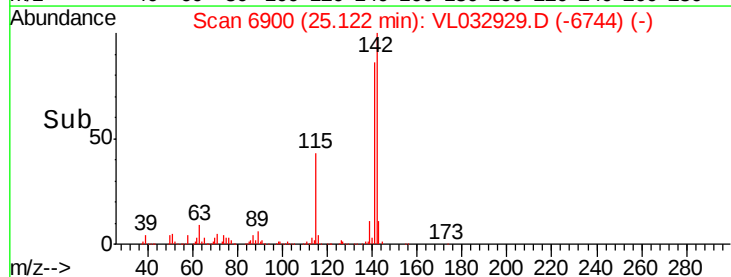
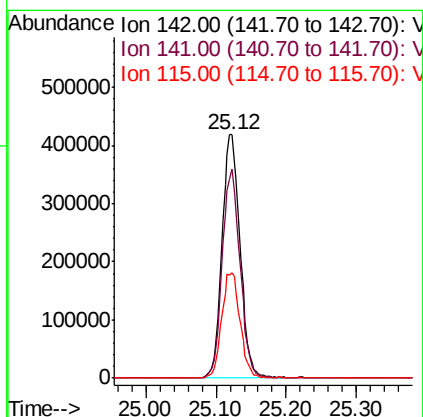
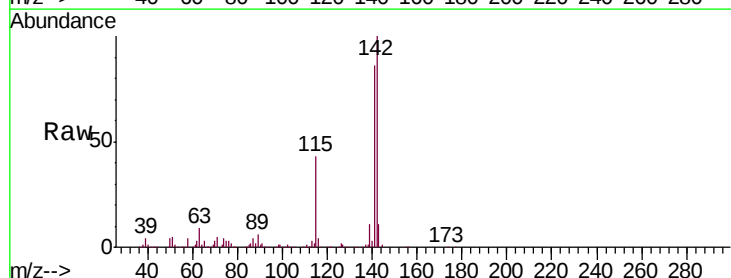
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1207ABS01

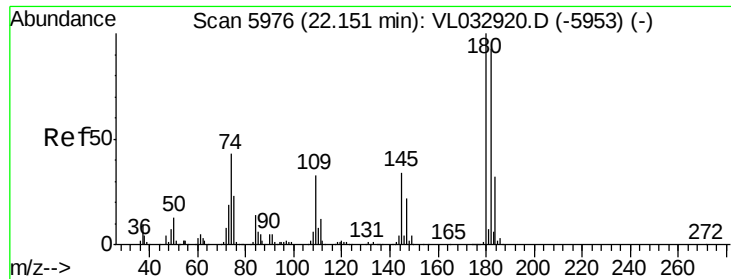
Tgt Ion:128 Resp: 2699922  
Ion Ratio Lower Upper  
128 100  
127 14.0 9.9 14.9  
129 11.5 8.6 13.0



#80  
Naphthalene, 2-methyl-  
Concen: 12.066 ppbv  
RT: 25.12 min Scan# 6900  
Delta R.T. 0.00 min  
Lab File: VL032929.D  
Acq: 7 Dec 2018 11:07

Tgt Ion:142 Resp: 750528  
Ion Ratio Lower Upper  
142 100  
141 84.6 68.2 102.2  
115 44.3 35.1 52.7





#81

1,2,4-Trichlorobenzene

Concen: 8.793 ppbv

RT: 22.14 min Scan# 5974

Delta R.T. -0.01 min

Lab File: VL032929.D

Acq: 7 Dec 2018 11:07

Instrument :

MSVOA\_L

ClientSampleId :

VL1207ABS01

Tgt Ion:180 Resp: 1357509

Ion Ratio Lower Upper

180 100

182 94.9 77.0 115.6

184 30.0 24.3 36.5

