

Data File : VL033927.D  
Acq On : 14 Jun 2019 12:57  
Operator : SY/AP  
Sample : VL0613ABS01  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0613ABS01

Quant Time: Jun 14 13:49:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL060719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 07 08:53:27 2019  
QLast Update : Fri Jun 07 08:53:27 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.75  | 49   | 1020659  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.28  | 114  | 2379947  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.22 | 117  | 3015400  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 68) 1-Bromo-4-Fluorobenzene | 14.56  | 95    | 2108565  | 8.51     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 85.10% |

#### Target Compounds

|                                |      |     |         |        |      | Qvalue |
|--------------------------------|------|-----|---------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 3.07 | 85  | 1243683 | 7.509  | ppbv | 99     |
| 3) Chlorodifluoromethane       | 3.00 | 51  | 1100748 | 9.161  | ppbv | 98     |
| 4) Chloromethane               | 3.16 | 50  | 636378  | 9.285  | ppbv | 99     |
| 5) Vinyl Chloride              | 3.28 | 62  | 639324  | 10.054 | ppbv | 99     |
| 6) Bromomethane                | 3.50 | 94  | 397209  | 9.402  | ppbv | 98     |
| 7) Chloroethane                | 3.59 | 64  | 235259  | 9.354  | ppbv | 99     |
| 8) Dichlorotetrafluoroethane   | 3.21 | 85  | 1575014 | 8.898  | ppbv | 97     |
| 9) Propene                     | 3.03 | 41  | 491796  | 10.939 | ppbv | 98     |
| 10) Heptane                    | 8.23 | 43  | 1325386 | 11.663 | ppbv | 99     |
| 11) Trichlorofluoromethane     | 3.99 | 101 | 1901881 | 8.900  | ppbv | 97     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.54 | 101 | 1268103 | 8.780  | ppbv | 100    |
| 13) Ethanol                    | 3.64 | 45  | 115796  | 7.916  | ppbv | 98     |
| 14) Bromoethene                | 3.78 | 108 | 533404  | 9.911  | ppbv | 100    |
| 15) Acetone                    | 3.89 | 43  | 1230164 | 8.264  | ppbv | 100    |
| 16) 1,3-Butadiene              | 3.35 | 39  | 568713  | 10.038 | ppbv | 98     |
| 17) tert-Butyl alcohol         | 4.35 | 59  | 1197576 | 10.291 | ppbv | 100    |
| 18) 1,1-Dichloroethene         | 4.34 | 96  | 563542  | 9.238  | ppbv | 98     |
| 19) Isopropyl Alcohol          | 4.01 | 45  | 907739  | 10.674 | ppbv | 100    |
| 20) Methylene Chloride         | 4.39 | 84  | 486077  | 8.373  | ppbv | 98     |
| 21) Allyl Chloride             | 4.46 | 41  | 835394  | 9.879  | ppbv | 99     |
| 22) trans-1,2-Dichloroethene   | 4.95 | 96  | 593352  | 9.227  | ppbv | 96     |
| 23) Vinyl Acetate              | 5.14 | 43  | 1897180 | 10.965 | ppbv | 99     |
| 24) 1,1-Dichloroethane         | 5.08 | 63  | 1291509 | 9.597  | ppbv | 99     |
| 25) Ethyl Acetate              | 5.76 | 43  | 2289301 | 10.098 | ppbv | 100    |
| 26) Hexane                     | 5.76 | 57  | 1006028 | 9.747  | ppbv | 99     |
| 27) Carbon Disulfide           | 4.61 | 76  | 1432632 | 9.990  | ppbv | 99     |
| 28) Methyl tert-Butyl Ether    | 5.10 | 73  | 1723382 | 11.041 | ppbv | 99     |
| 29) Chloroform                 | 5.84 | 83  | 1667122 | 9.430  | ppbv | 98     |
| 30) Cyclohexane                | 7.23 | 84  | 850214  | 11.658 | ppbv | 98     |
| 31) cis-1,2-Dichloroethene     | 5.63 | 61  | 1021735 | 11.288 | ppbv | 96     |
| 32) 1,1,1-Trichloroethane      | 6.61 | 97  | 1699919 | 9.968  | ppbv | 99     |
| 34) 2-Butanone                 | 5.32 | 43  | 1491140 | 11.106 | ppbv | 98     |
| 35) Carbon Tetrachloride       | 7.12 | 117 | 1872382 | 10.183 | ppbv | 99     |
| 36) Benzene                    | 6.99 | 78  | 2054742 | 11.302 | ppbv | 99     |
| 37) 1,2-Dichloroethane         | 6.40 | 62  | 1264795 | 9.407  | ppbv | 99     |
| 38) Trichloroethene            | 7.95 | 130 | 840429  | 11.873 | ppbv | 97     |
| 39) 1,2-Dichloropropane        | 7.72 | 63  | 773638  | 11.026 | ppbv | 93     |
| 40) 1,4-Dioxane                | 7.94 | 88  | 328873  | 11.492 | ppbv | 91     |
| 41) Tetrahydrofuran            | 6.14 | 42  | 820741  | 12.044 | ppbv | 99     |
| 42) Bromodichloromethane       | 7.90 | 83  | 1861601 | 10.361 | ppbv | 97     |
| 43) Methyl Methacrylate        | 8.12 | 69  | 824685  | 12.129 | ppbv | 95     |

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Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0613ABS01

Quant Time: Jun 14 13:49:05 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL060719AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 07 08:53:27 2019  
QLast Update : Fri Jun 07 08:53:27 2019  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.98  | 57   | 3554770  | 10.995 | ppbv   | 99       |
| 45) t-1,3-Dichloropropene     | 9.40  | 75   | 1092543  | 12.246 | ppbv   | 99       |
| 46) cis-1,3-Dichloropropene   | 8.82  | 75   | 1261092  | 12.338 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 9.60  | 97   | 830942   | 9.934  | ppbv   | 97       |
| 48) Dibromochloromethane      | 10.44 | 129  | 1553861  | 10.337 | ppbv   | 99       |
| 49) Bromoform                 | 13.19 | 173  | 1410207  | 10.627 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.86  | 43   | 2253074  | 11.254 | ppbv   | 99       |
| 51) 2-Hexanone                | 10.25 | 43   | 1807798  | 11.563 | ppbv # | 100      |
| 52) Tetrachloroethene         | 11.36 | 164  | 742368   | 11.605 | ppbv   | 96       |
| 53) Toluene                   | 9.93  | 91   | 2316554  | 11.515 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 10.74 | 107  | 1315540  | 10.433 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 12.26 | 131  | 1055825  | 8.015  | ppbv   | 97       |
| 57) Chlorobenzene             | 12.29 | 112  | 1845732  | 8.173  | ppbv   | 99       |
| 58) Ethyl Benzene             | 12.85 | 91   | 3198579  | 9.408  | ppbv   | 96       |
| 59) m/p-Xylene                | 13.14 | 91   | 2795023  | 9.041  | ppbv # | 37       |
| 60) o-Xylene                  | 13.83 | 91   | 2975021  | 9.320  | ppbv   | 100      |
| 61) Styrene                   | 13.67 | 104  | 2176002  | 10.534 | ppbv   | 100      |
| 62) Isopropylbenzene          | 14.81 | 105  | 3953200  | 9.189  | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 13.82 | 83   | 2109745  | 8.781  | ppbv   | 99       |
| 64) n-propylbenzene           | 15.71 | 120  | 1027980  | 9.331  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 16.89 | 119  | 3694271  | 9.280  | ppbv   | 100      |
| 66) Benzyl Chloride           | 17.14 | 91   | 2004745  | 9.938  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 17.44 | 105  | 5157634  | 9.236  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 17.80 | 119  | 4296449  | 9.246  | ppbv   | 100      |
| 70) n-Butylbenzene            | 18.70 | 91   | 4575669  | 8.991  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 15.60 | 91   | 3021415  | 9.533  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 15.99 | 105  | 3503424  | 9.645  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.14 | 105  | 3347968  | 9.357  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 16.91 | 105  | 3572084  | 8.662  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 17.15 | 146  | 2058688  | 7.971  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 17.29 | 146  | 2009934  | 8.476  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 17.97 | 146  | 1955124  | 8.204  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.53 | 225  | 1359747  | 7.305  | ppbv   | 99       |
| 79) Naphthalene               | 22.39 | 128  | 2619620  | 7.947  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 25.10 | 142  | 987341   | 7.507  | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 22.12 | 180  | 1539333  | 7.397  | ppbv   | 99       |

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

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ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VL0613ABS01

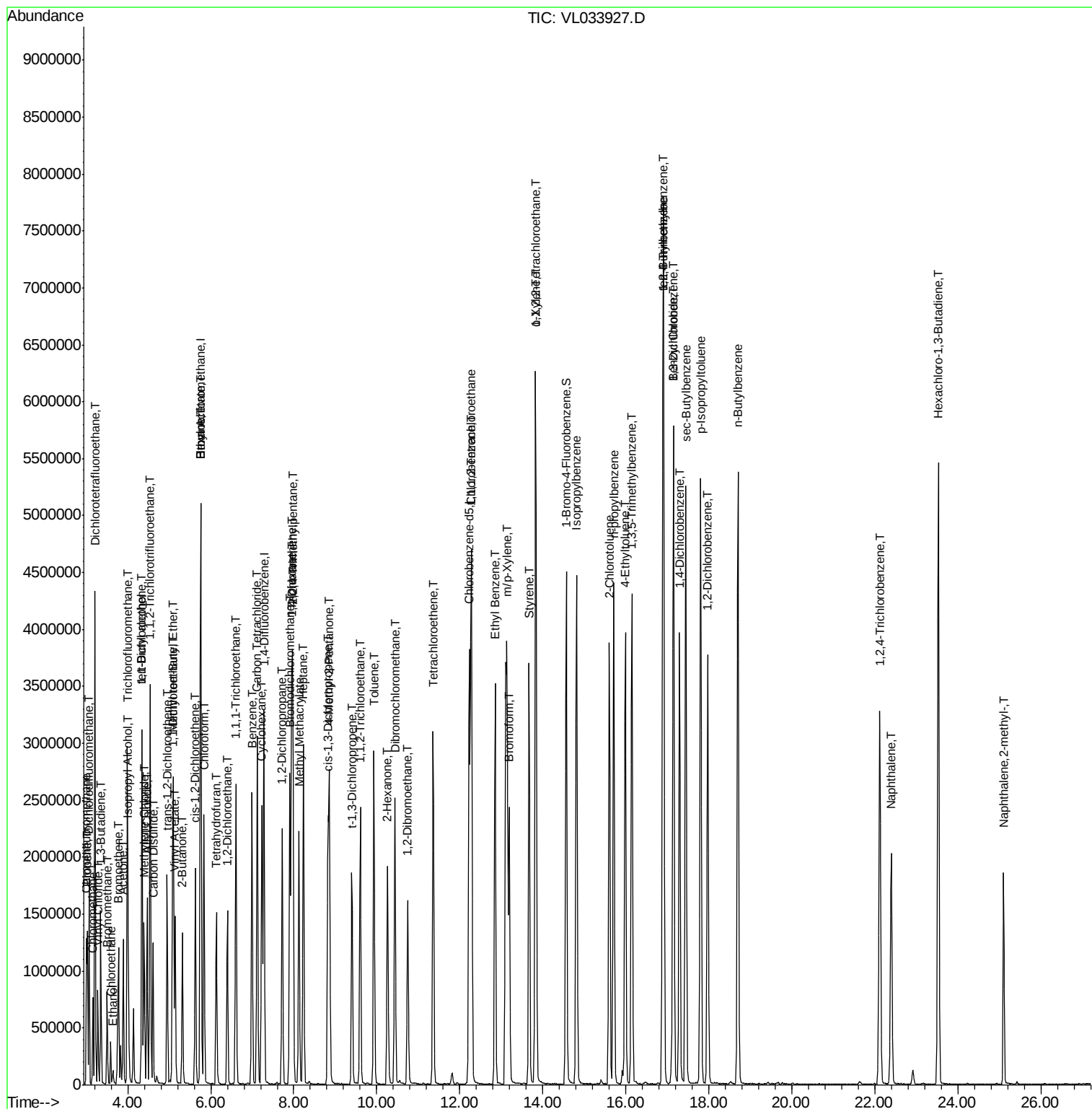
Quant Time: Jun 14 13:49:05 2019

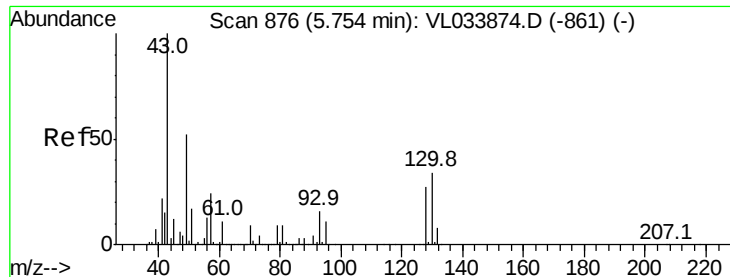
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A\_L\METHODS\VL060719AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LFri Jun 07 08:53:27 2019

QLast Update : Fri Jun 07 08:53:27 2019

Response via : Initial Calibration

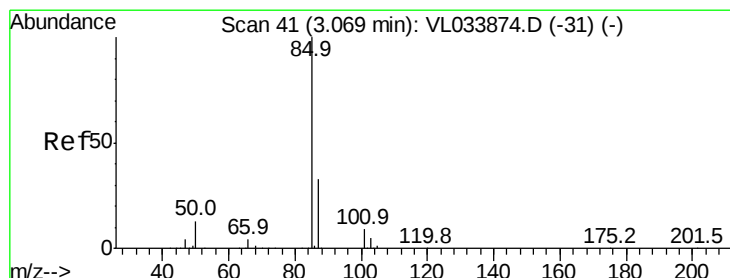
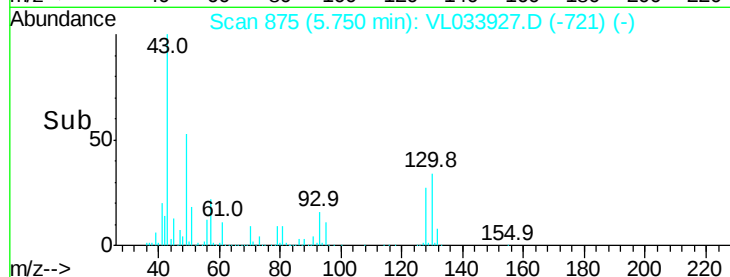
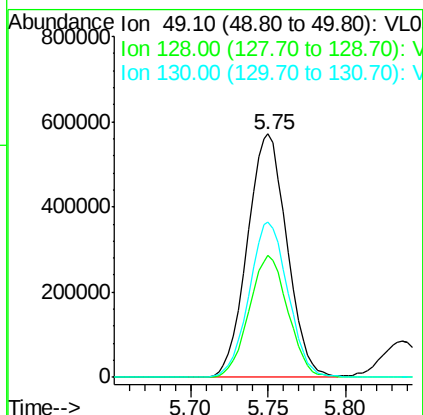
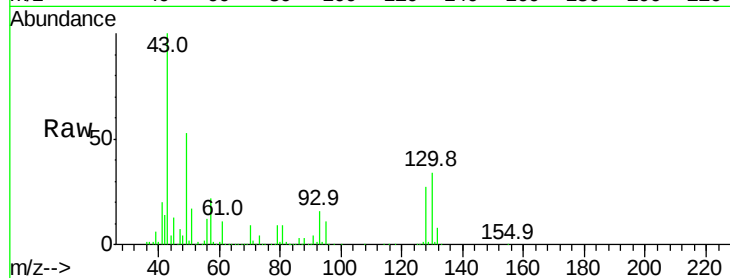




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.75 min Scan# 875  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

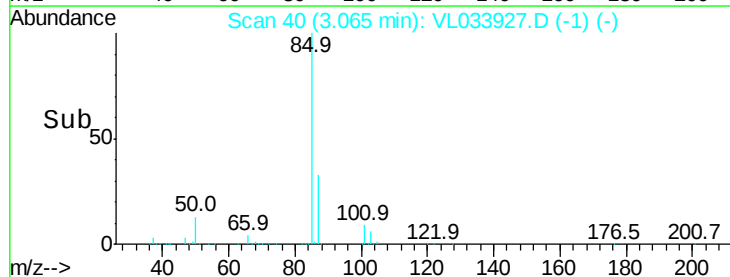
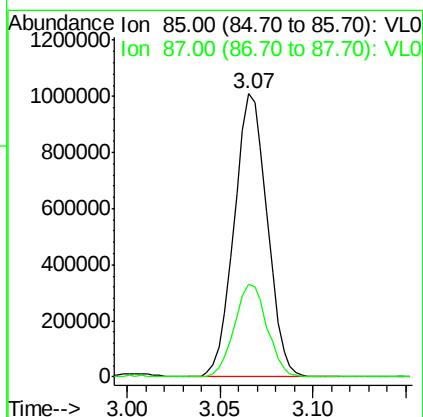
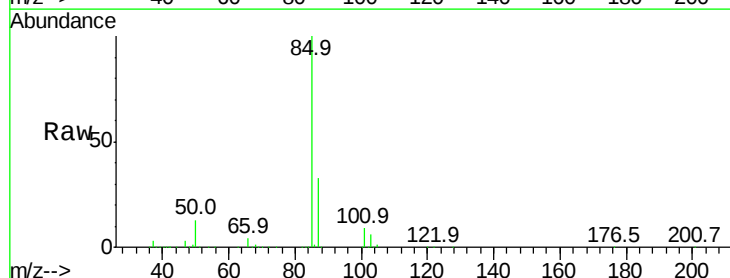
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

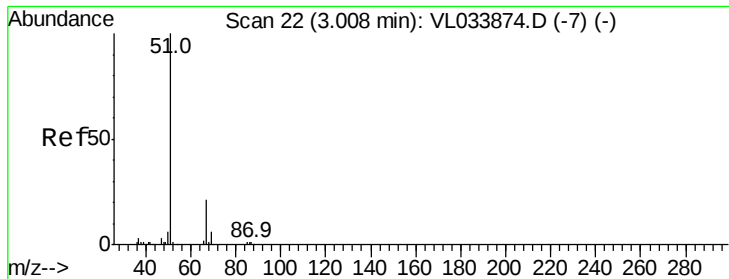
Tgt Ion: 49 Resp: 1020659  
 Ion Ratio Lower Upper  
 49 100  
 128 49.2 25.5 76.5  
 130 62.8 32.5 97.4



#2  
 Dichlorodifluoromethane  
 Concen: 7.509 ppbv  
 RT: 3.07 min Scan# 40  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Tgt Ion: 85 Resp: 1243683  
 Ion Ratio Lower Upper  
 85 100  
 87 32.8 26.6 40.0





#3

Chlorodifluoromethane

Concen: 9.161 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

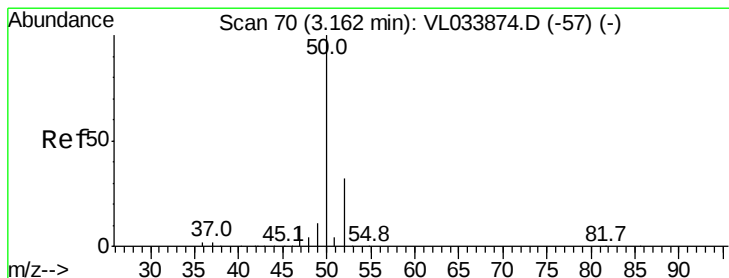
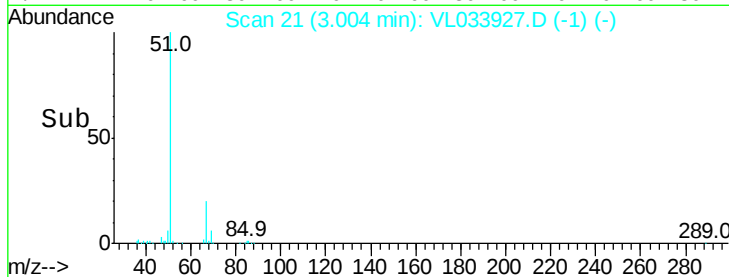
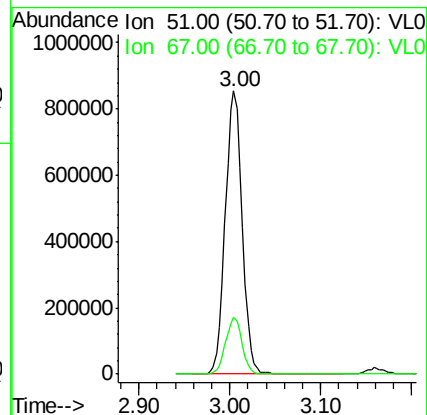
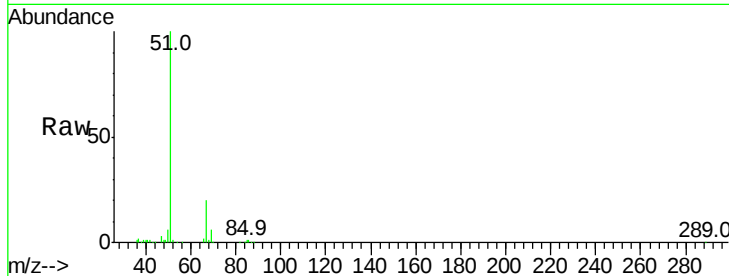
VL0613ABS01

Tgt Ion: 51 Resp: 1100748

Ion Ratio Lower Upper

51 100

67 19.6 16.4 24.6



#4

Chloromethane

Concen: 9.285 ppbv

RT: 3.16 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL033927.D

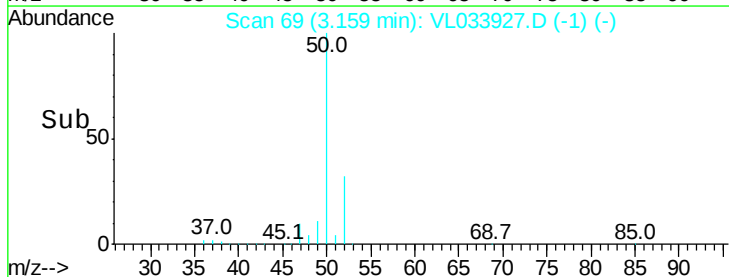
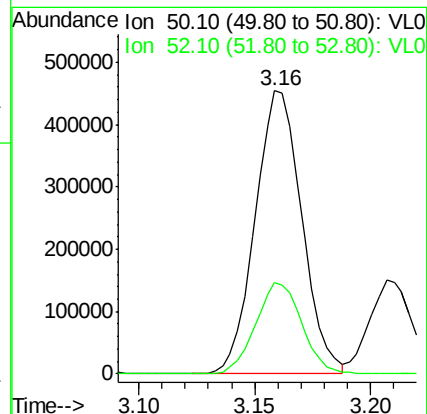
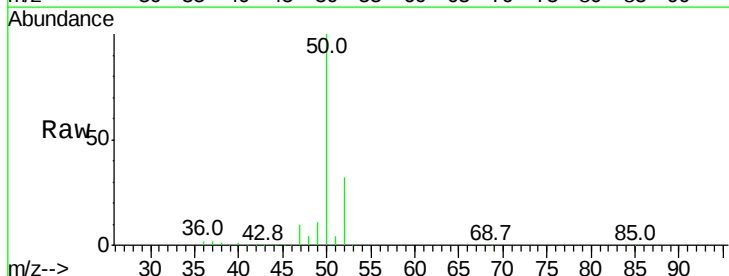
Acq: 14 Jun 2019 12:57

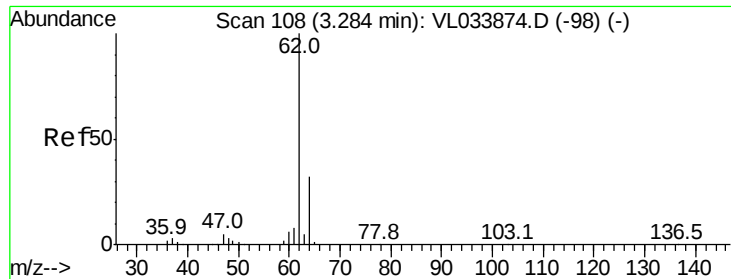
Tgt Ion: 50 Resp: 636378

Ion Ratio Lower Upper

50 100

52 32.3 25.4 38.0





#5

Vinyl Chloride

Concen: 10.054 ppbv

RT: 3.28 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

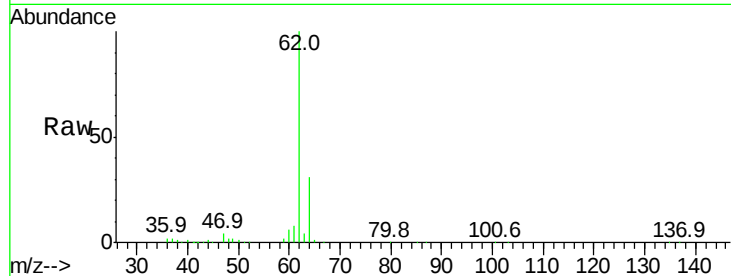
VL0613ABS01

Tgt Ion: 62 Resp: 639324

Ion Ratio Lower Upper

62 100

64 31.2 25.2 37.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.28

400000

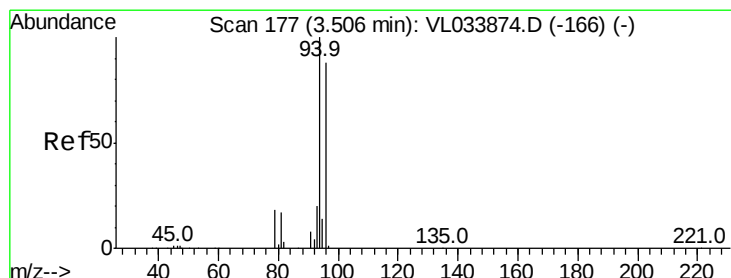
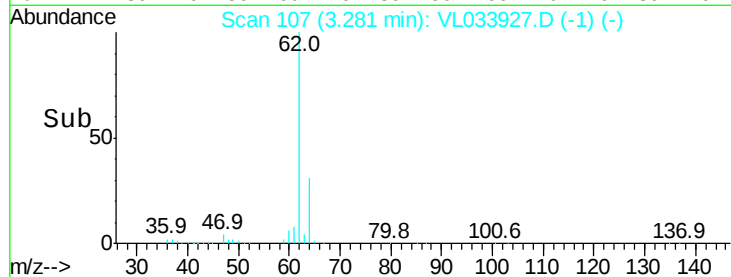
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.402 ppbv

RT: 3.50 min Scan# 176

Delta R.T. -0.00 min

Lab File: VL033927.D

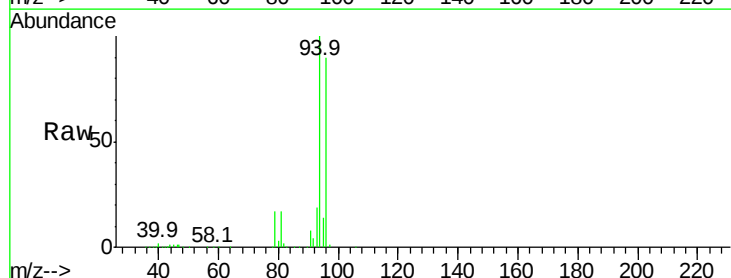
Acq: 14 Jun 2019 12:57

Tgt Ion: 94 Resp: 397209

Ion Ratio Lower Upper

94 100

96 89.7 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.50

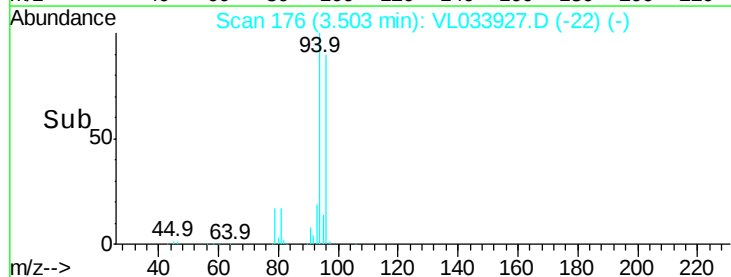
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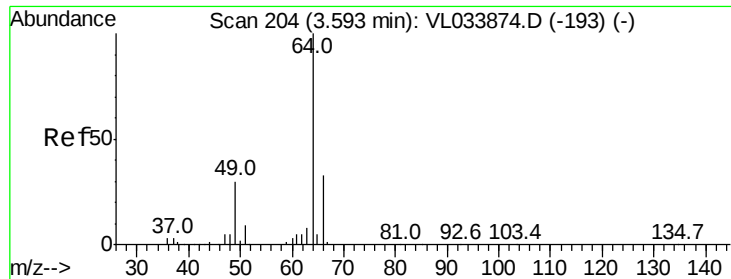
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.354 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

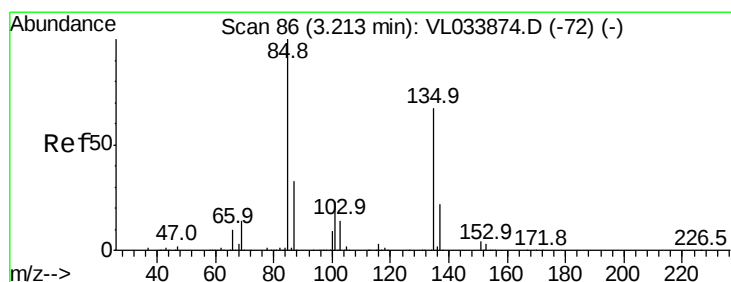
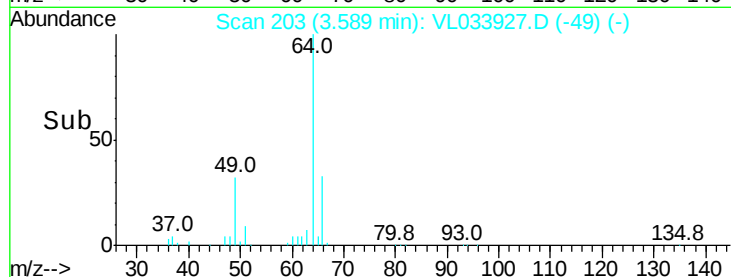
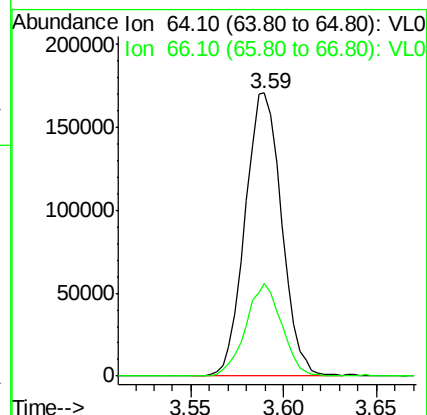
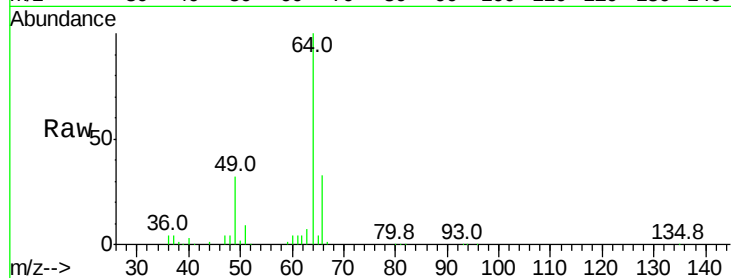
VL0613ABS01

Tgt Ion: 64 Resp: 235259

Ion Ratio Lower Upper

64 100

66 32.9 26.7 40.1



#8

Dichlorotetrafluoroethane

Concen: 8.898 ppbv

RT: 3.21 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL033927.D

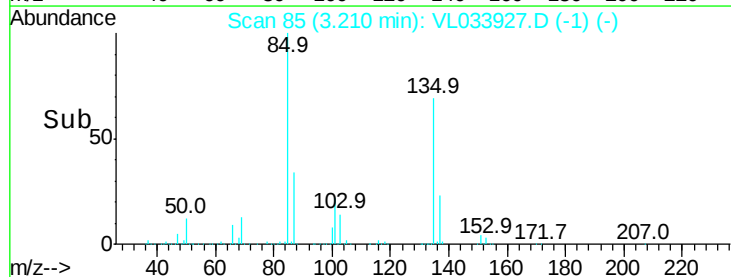
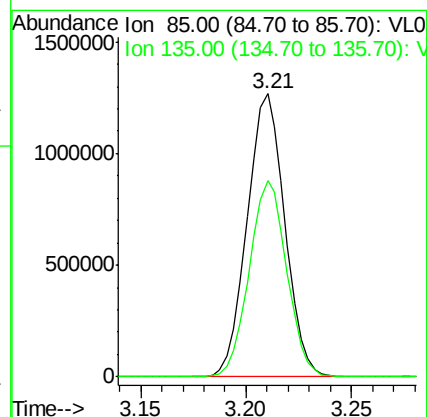
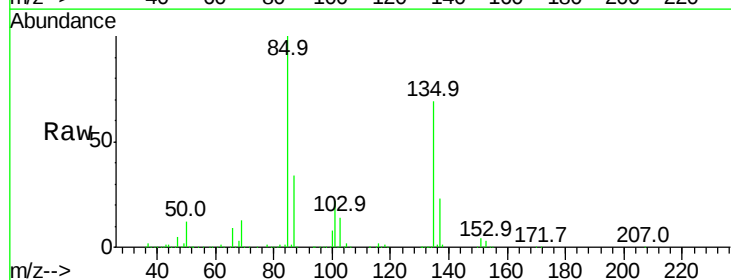
Acq: 14 Jun 2019 12:57

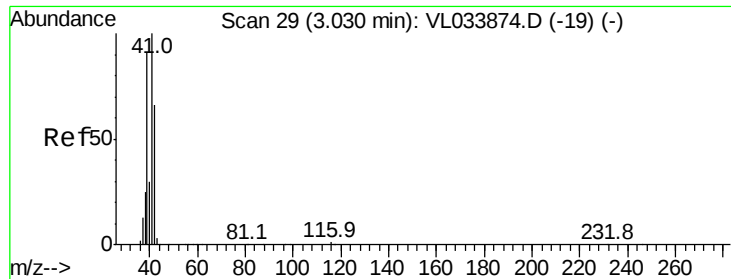
Tgt Ion: 85 Resp: 1575014

Ion Ratio Lower Upper

85 100

135 69.2 53.7 80.5





#9

Propene

Concen: 10.939 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

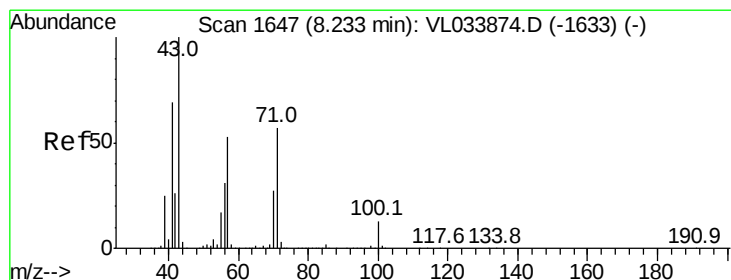
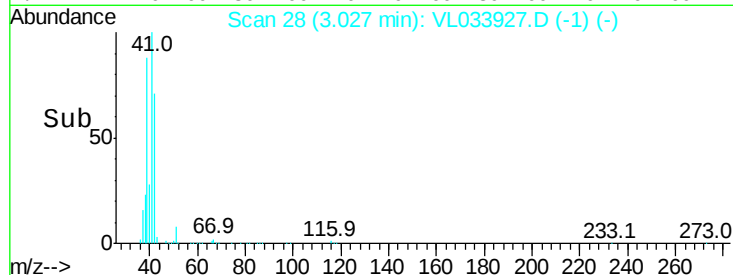
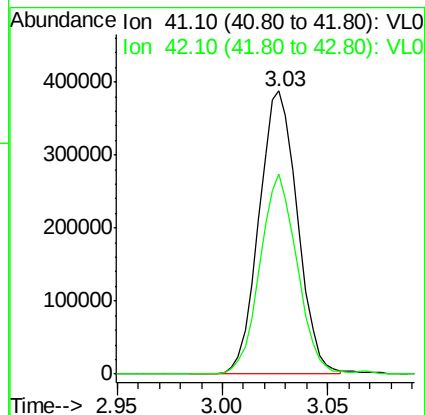
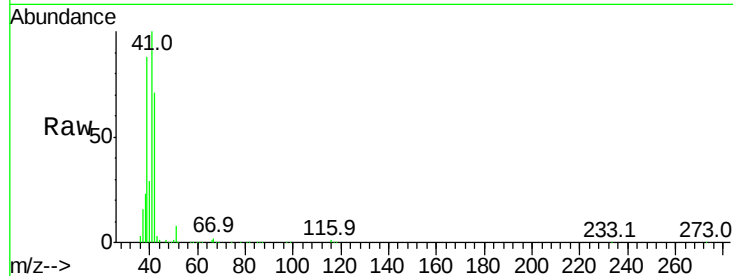
VL0613ABS01

Tgt Ion: 41 Resp: 491796

Ion Ratio Lower Upper

41 100

42 69.0 56.3 84.5



#10

Heptane

Concen: 11.663 ppbv

RT: 8.23 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VL033927.D

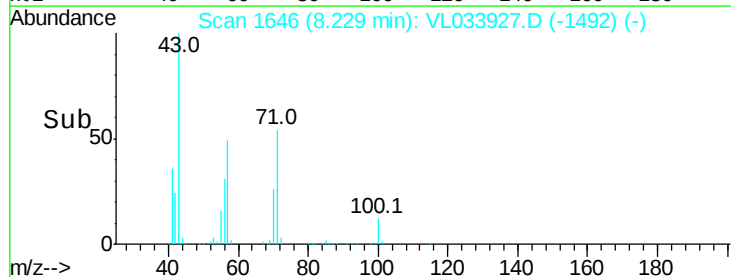
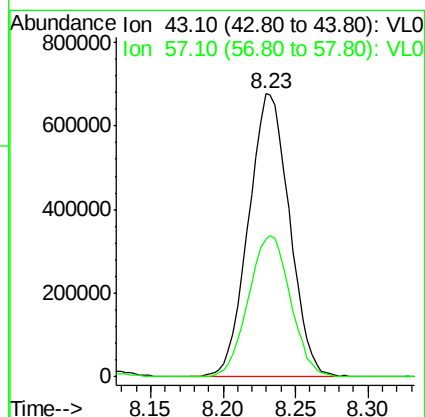
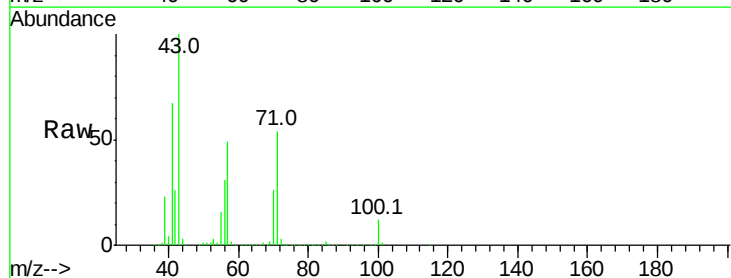
Acq: 14 Jun 2019 12:57

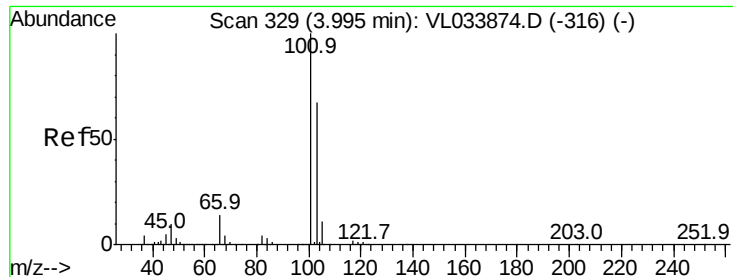
Tgt Ion: 43 Resp: 1325386

Ion Ratio Lower Upper

43 100

57 51.4 41.7 62.5

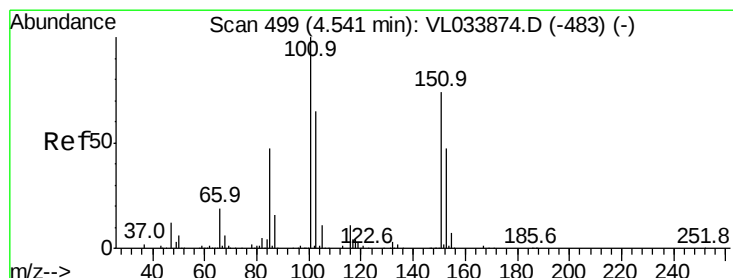
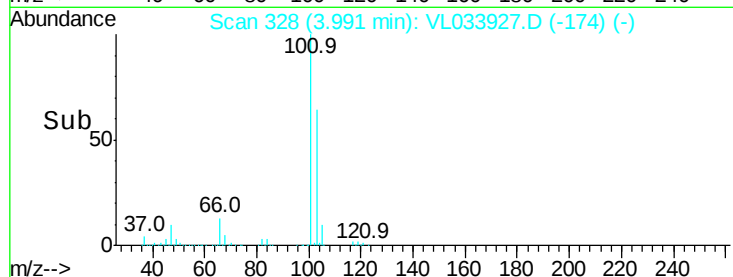
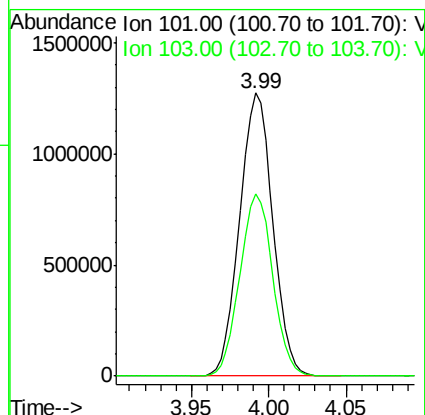
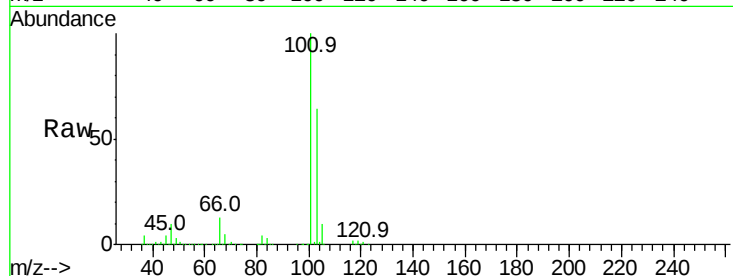




#11  
 Trichlorofluoromethane  
 Concen: 8.900 ppbv  
 RT: 3.99 min Scan# 328  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

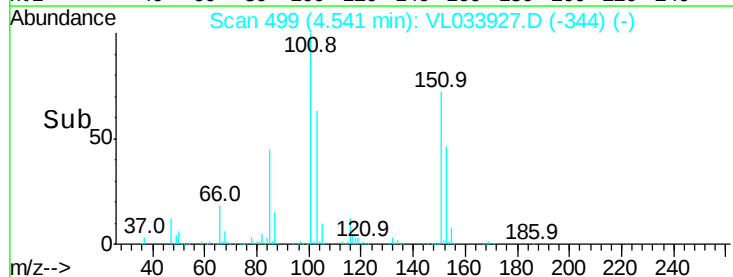
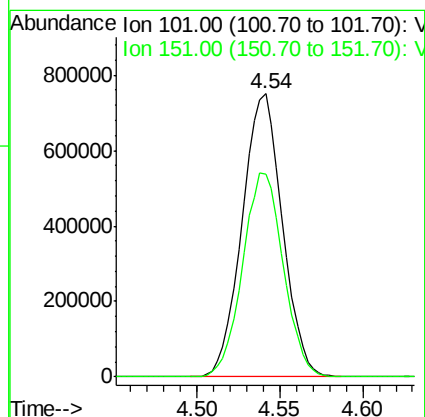
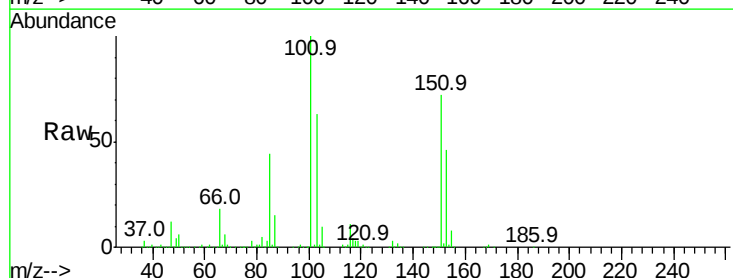
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

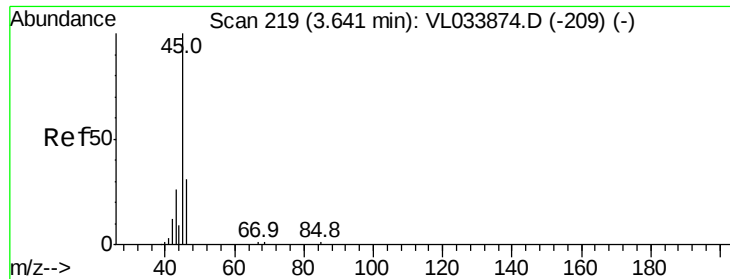
Tgt Ion:101 Resp: 1901881  
 Ion Ratio Lower Upper  
 101 100  
 103 64.2 53.6 80.4



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 8.780 ppbv  
 RT: 4.54 min Scan# 499  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Tgt Ion:101 Resp: 1268103  
 Ion Ratio Lower Upper  
 101 100  
 151 72.9 58.6 87.8





#13

Ethanol

Concen: 7.916 ppbv

RT: 3.64 min Scan# 219

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

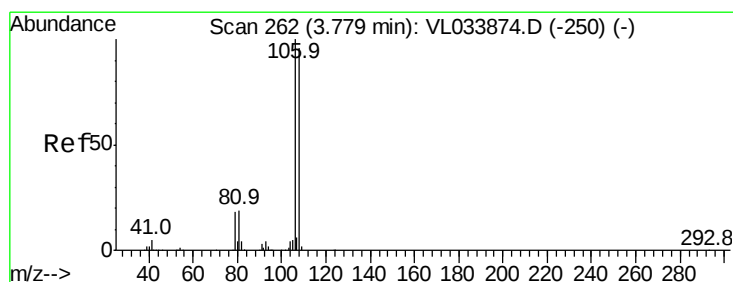
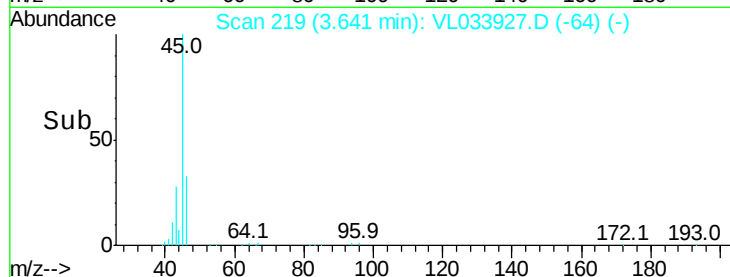
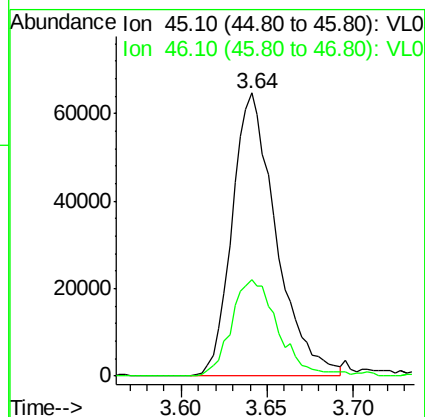
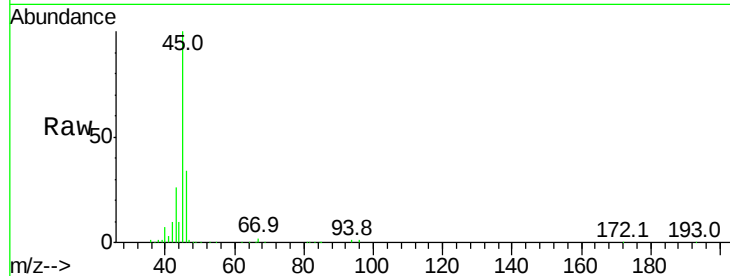
VL0613ABS01

Tgt Ion: 45 Resp: 115796

Ion Ratio Lower Upper

45 100

46 36.7 15.3 61.1



#14

Bromoethene

Concen: 9.911 ppbv

RT: 3.78 min Scan# 261

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

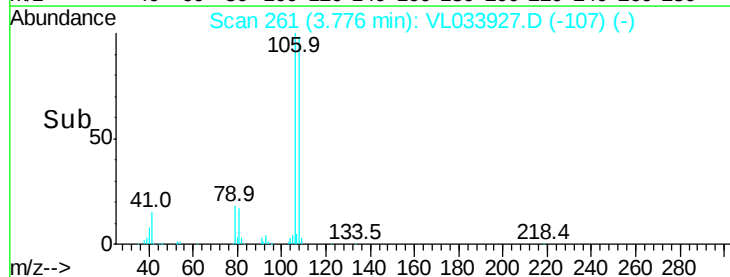
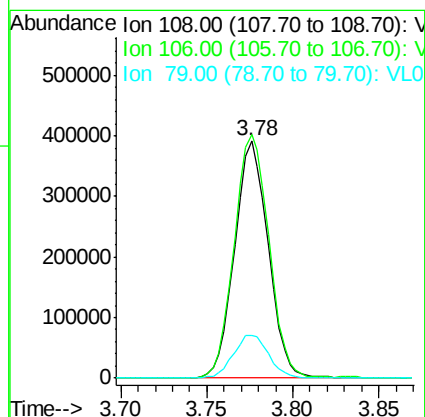
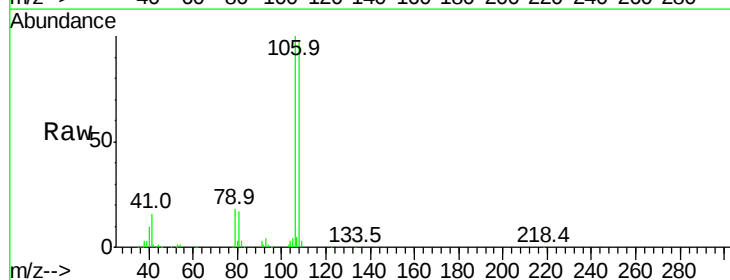
Tgt Ion: 108 Resp: 533404

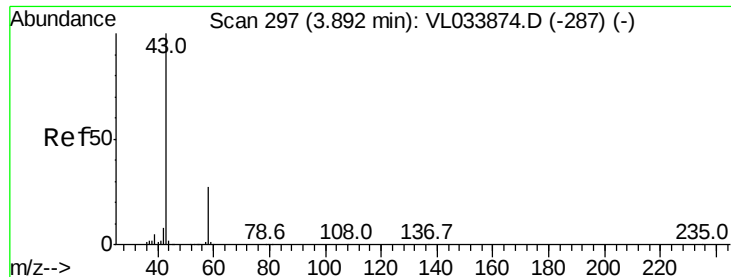
Ion Ratio Lower Upper

108 100

106 106.6 84.9 127.3

79 19.1 15.4 23.0





#15

Acetone

Concen: 8.264 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

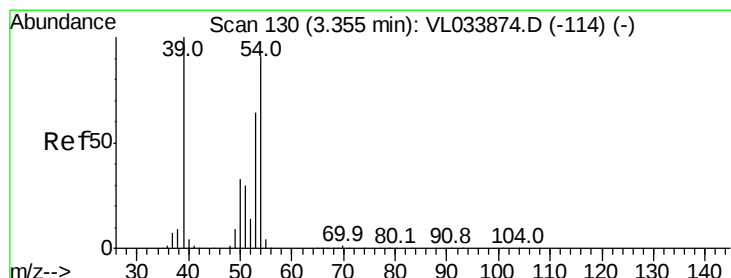
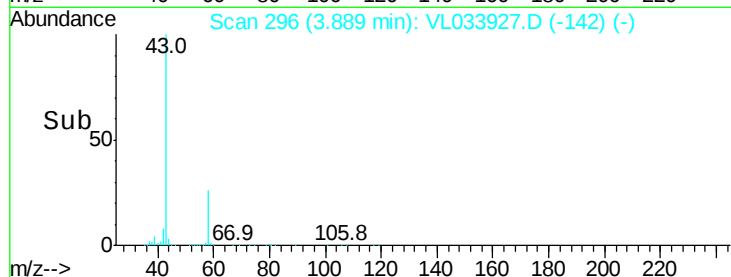
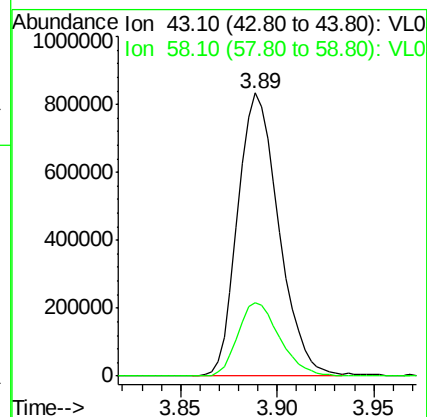
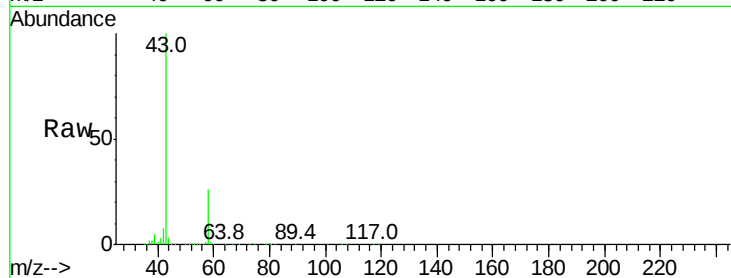
VL0613ABS01

Tgt Ion: 43 Resp: 1230164

Ion Ratio Lower Upper

43 100

58 26.6 21.3 31.9



#16

1,3-Butadiene

Concen: 10.038 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.00 min

Lab File: VL033927.D

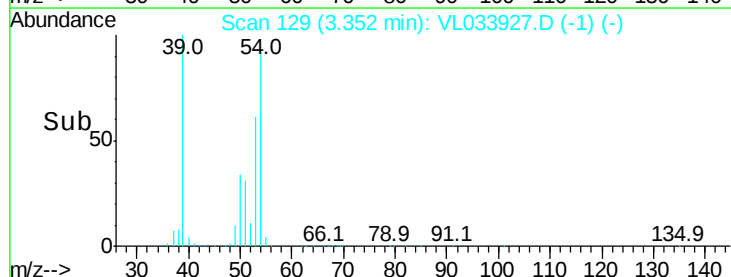
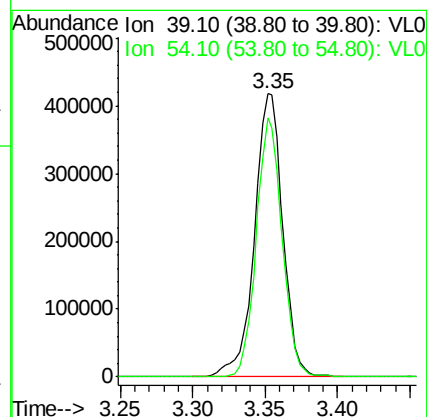
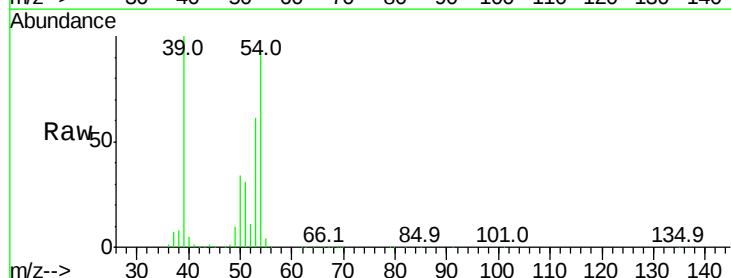
Acq: 14 Jun 2019 12:57

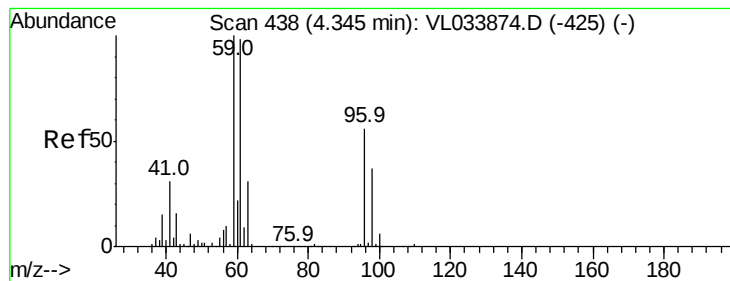
Tgt Ion: 39 Resp: 568713

Ion Ratio Lower Upper

39 100

54 83.9 68.6 103.0





#17

tert-Butyl alcohol

Concen: 10.291 ppbv

RT: 4.35 min Scan# 438

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

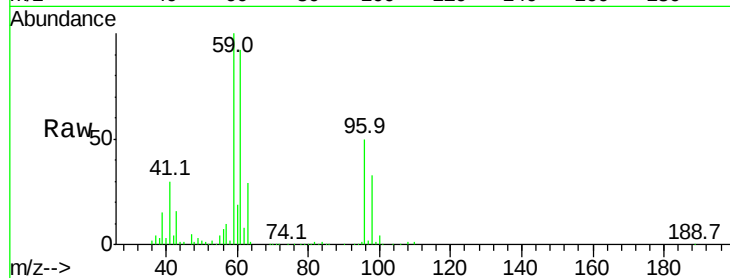
VL0613ABS01

Tgt Ion: 59 Resp: 1197576

Ion Ratio Lower Upper

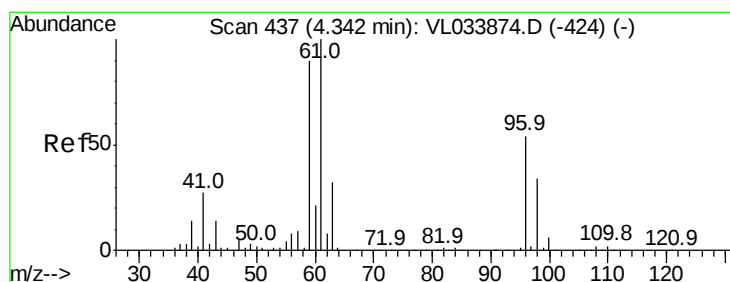
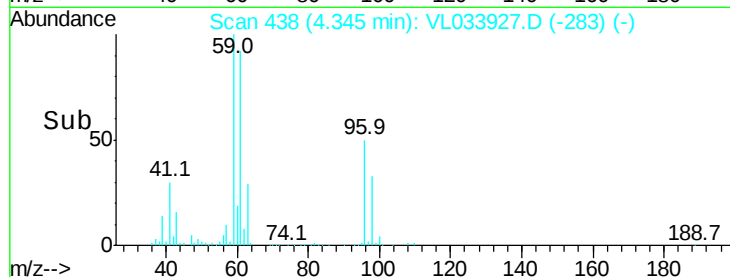
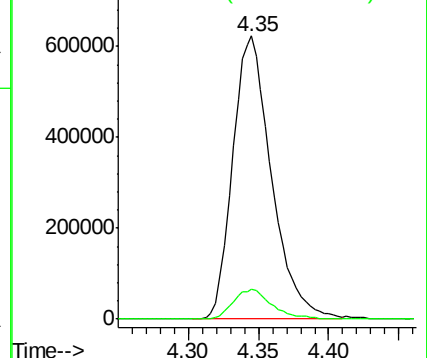
59 100

57 10.6 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.238 ppbv

RT: 4.34 min Scan# 436

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

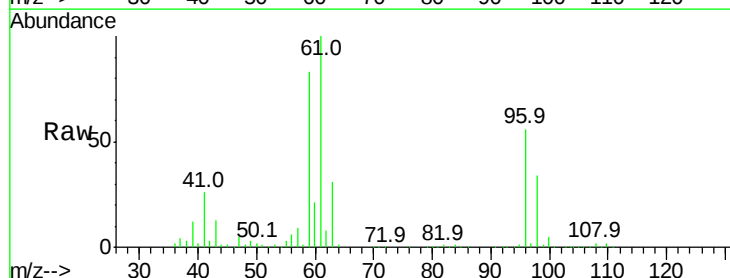
Tgt Ion: 96 Resp: 563542

Ion Ratio Lower Upper

96 100

61 179.9 147.0 220.6

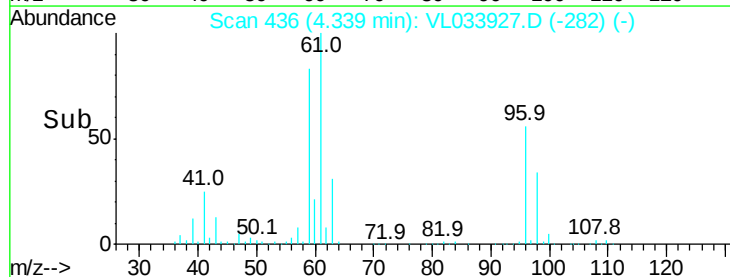
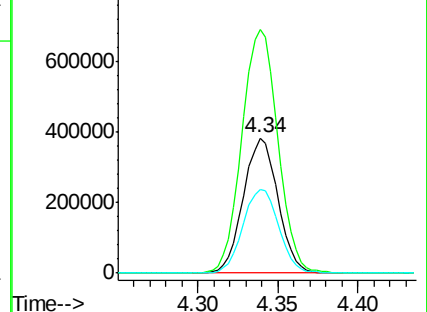
98 61.3 49.4 74.0

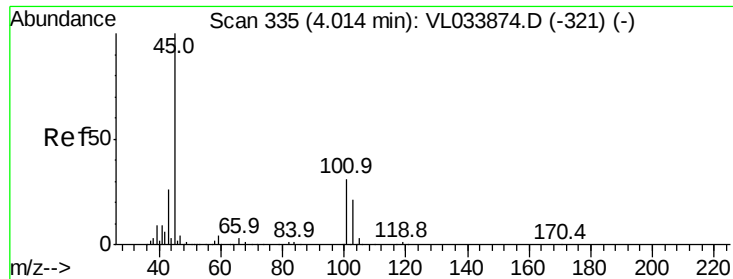


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



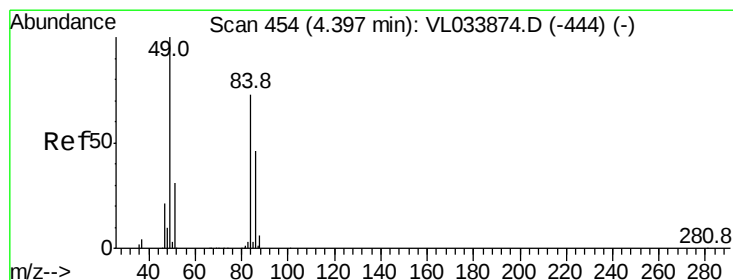
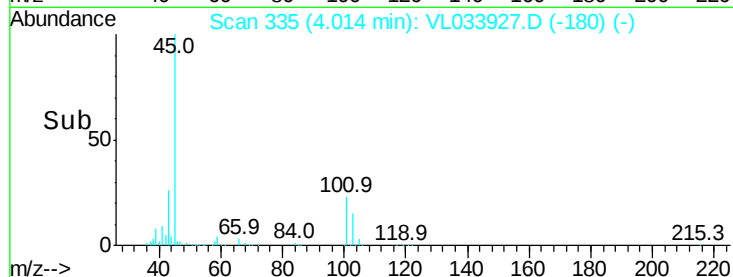
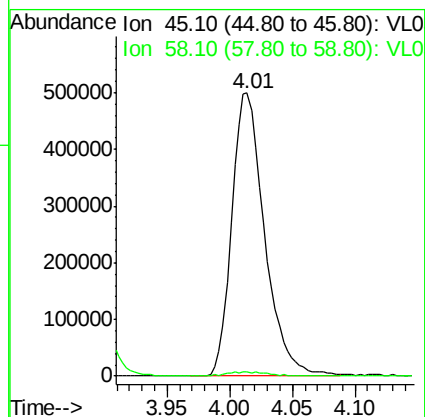
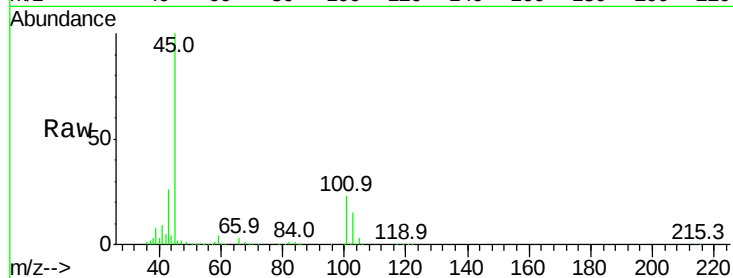


#19

Isopropyl Alcohol  
 Concen: 10.674 ppbv  
 RT: 4.01 min Scan# 335  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

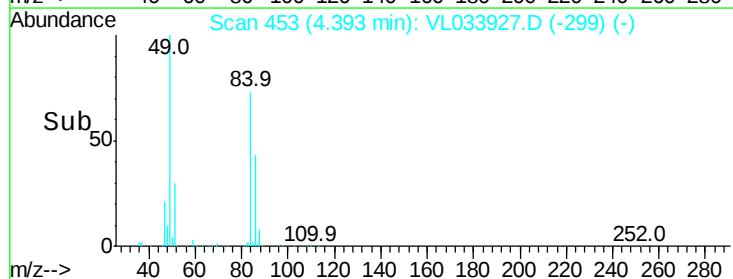
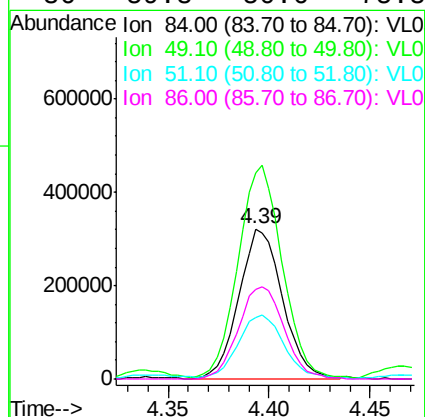
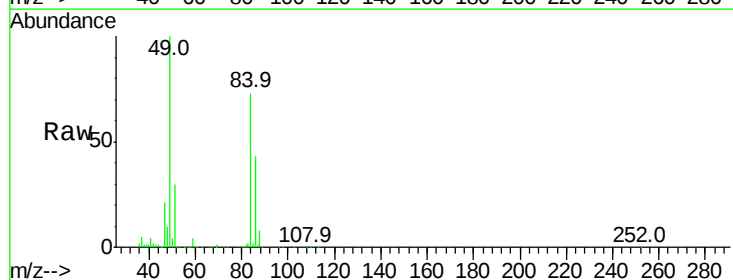
Tgt Ion: 45 Resp: 907739  
 Ion Ratio Lower Upper  
 45 100  
 58 2.0 1.8 2.6

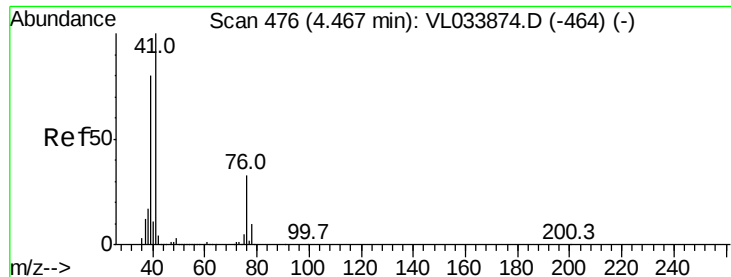


#20

Methylene Chloride  
 Concen: 8.373 ppbv  
 RT: 4.39 min Scan# 453  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Tgt Ion: 84 Resp: 486077  
 Ion Ratio Lower Upper  
 84 100  
 49 137.1 110.0 165.0  
 51 40.1 34.6 51.8  
 86 59.8 50.6 75.8





#21

Allyl Chloride

Concen: 9.879 ppbv

RT: 4.46 min Scan# 475

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

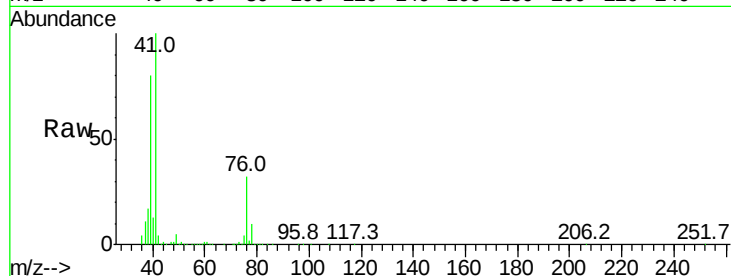
Tgt Ion: 41 Resp: 835394

Ion Ratio Lower Upper

41 100

76 32.3 26.6 39.8

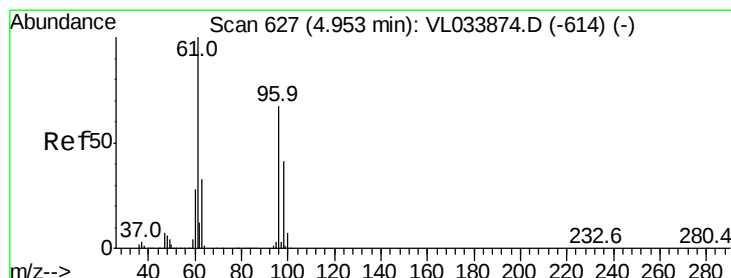
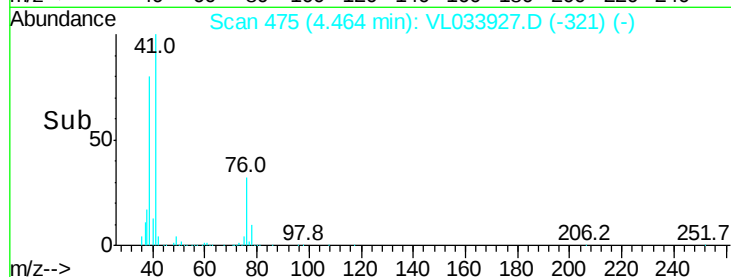
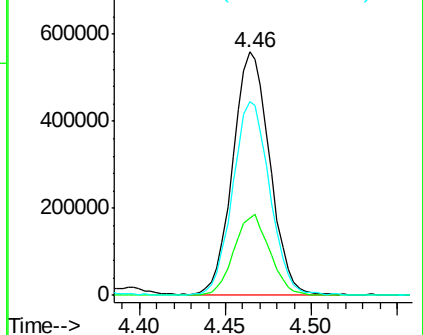
39 80.3 65.2 97.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 9.227 ppbv

RT: 4.95 min Scan# 626

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

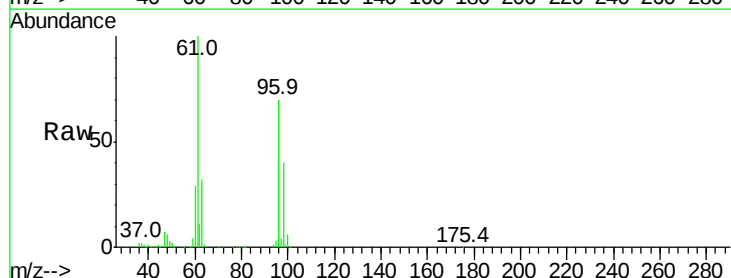
Tgt Ion: 96 Resp: 593352

Ion Ratio Lower Upper

96 100

61 143.2 119.0 178.6

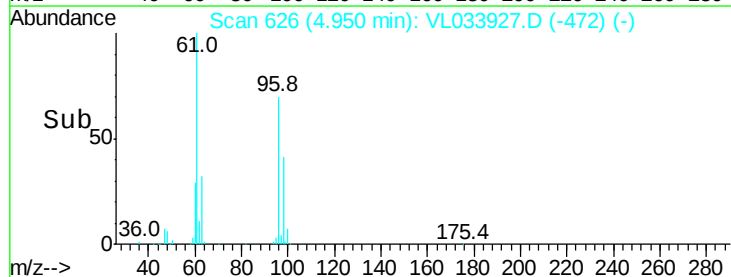
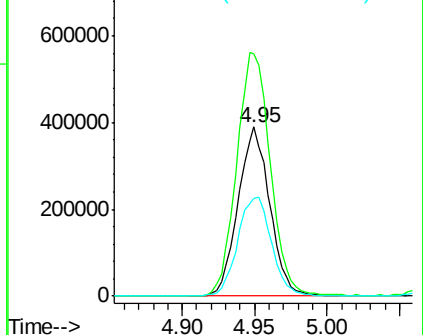
98 57.7 48.3 72.5

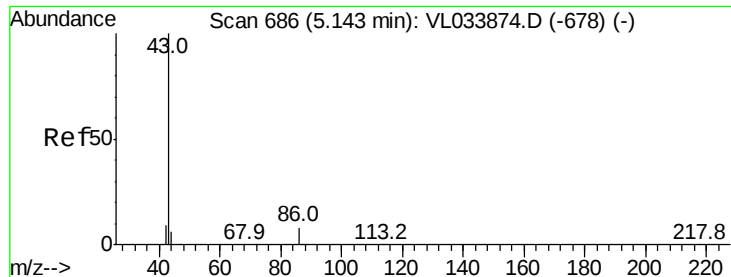


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



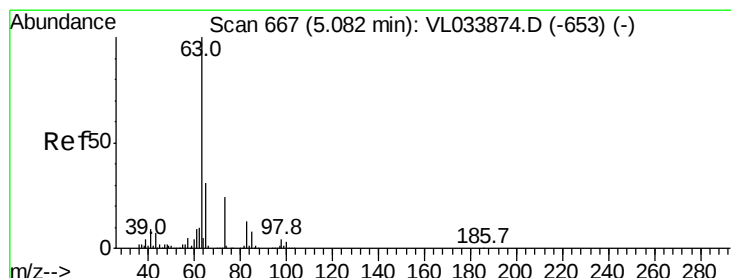
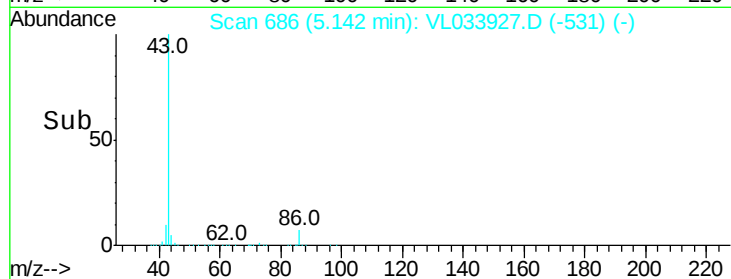
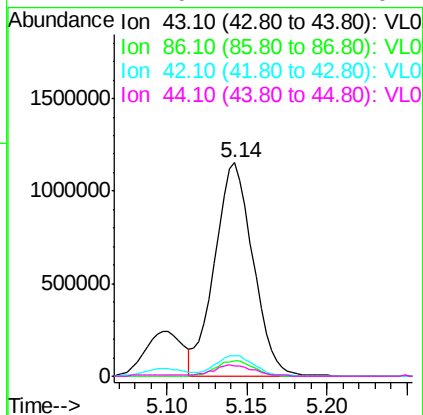
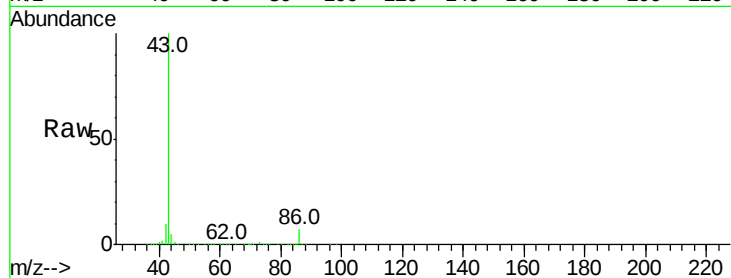


#23  
 Vinyl Acetate  
 Concen: 10.965 ppbv  
 RT: 5.14 min Scan# 686  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

Tgt Ion: 43 Resp: 1897180

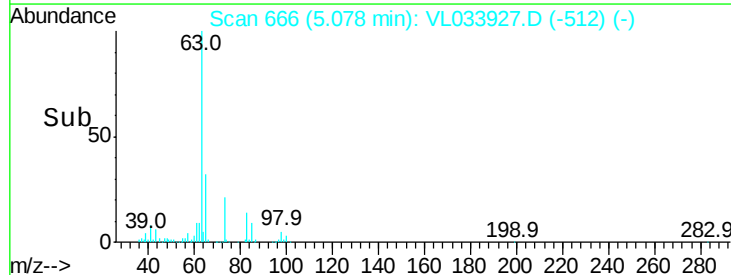
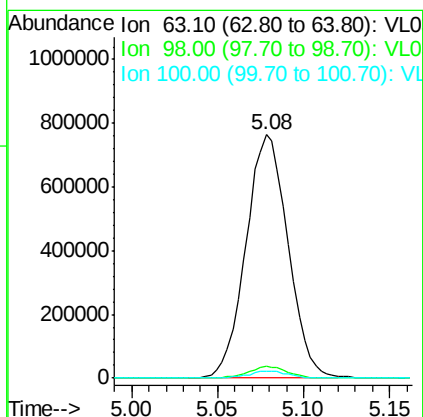
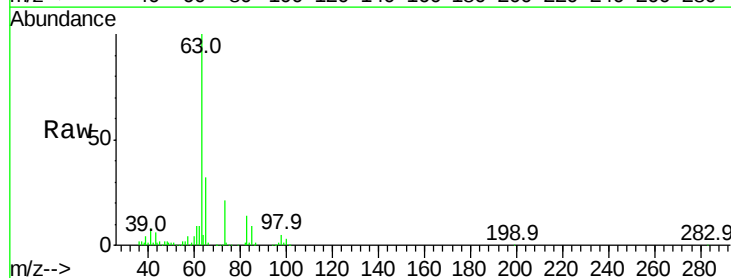
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.2   | 5.8   | 8.8   |
| 42  | 9.6   | 7.8   | 11.8  |
| 44  | 4.9   | 4.2   | 6.4   |

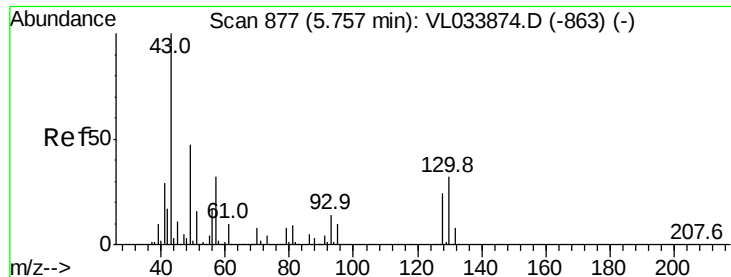


#24  
 1,1-Dichloroethane  
 Concen: 9.597 ppbv  
 RT: 5.08 min Scan# 666  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Tgt Ion: 63 Resp: 1291509

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.6   | 2.2   | 6.6   |
| 100 | 3.1   | 1.3   | 3.8   |





#25

Ethyl Acetate

Concen: 10.098 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

Tgt Ion: 43 Resp: 2289301

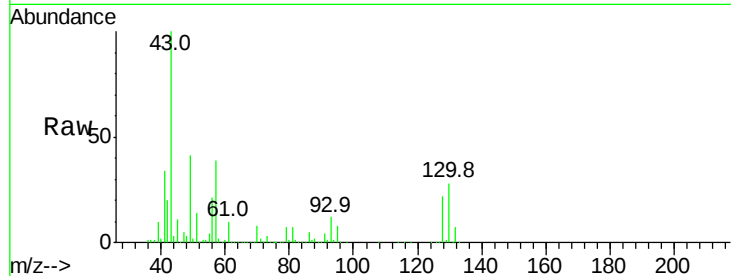
Ion Ratio Lower Upper

43 100

45 10.1 7.9 11.9

61 9.6 7.8 11.6

70 7.2 5.8 8.6

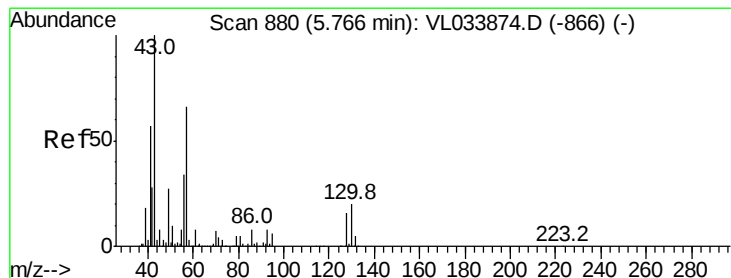
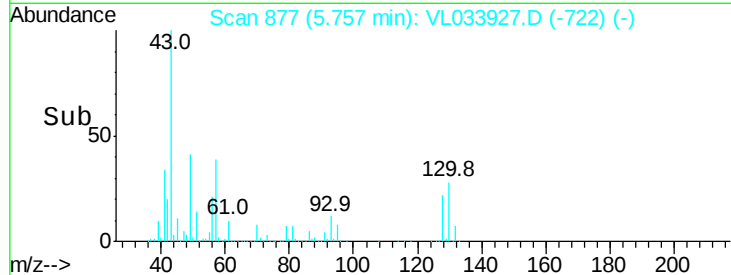
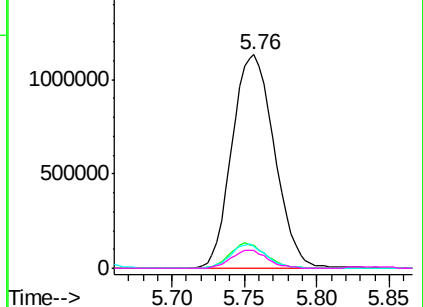


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.747 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Tgt Ion: 57 Resp: 1006028

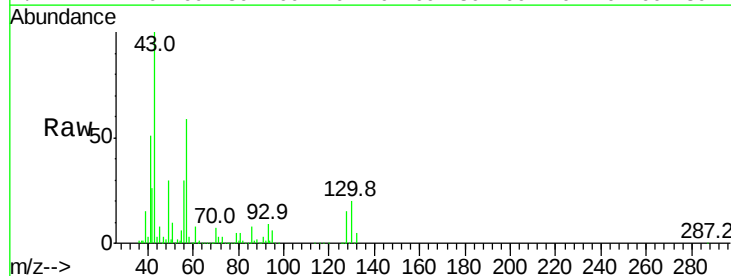
Ion Ratio Lower Upper

57 100

41 87.6 71.4 107.2

43 229.0 183.7 275.5

56 52.9 42.7 64.1

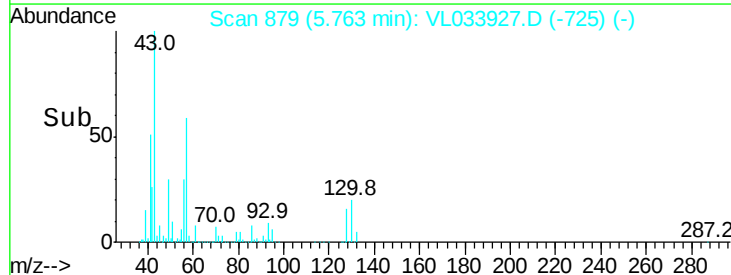
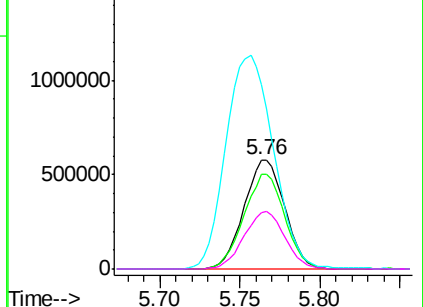


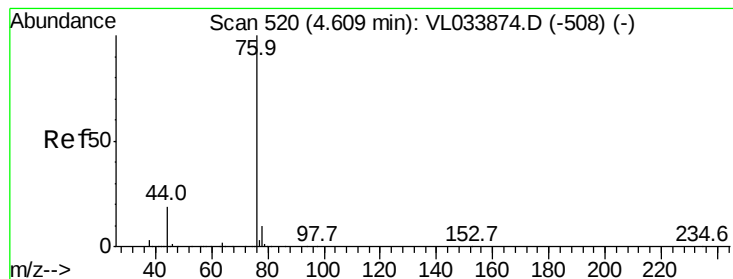
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 9.990 ppbv

RT: 4.61 min Scan# 520

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

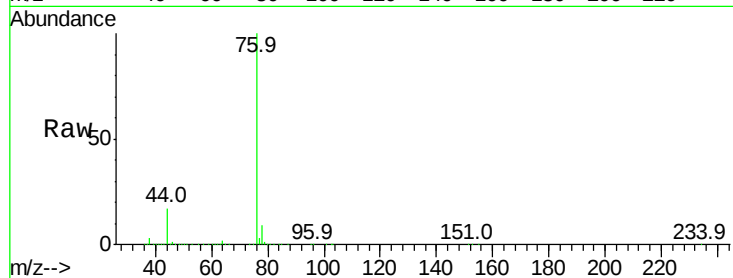
Tgt Ion: 76 Resp: 1432632

Ion Ratio Lower Upper

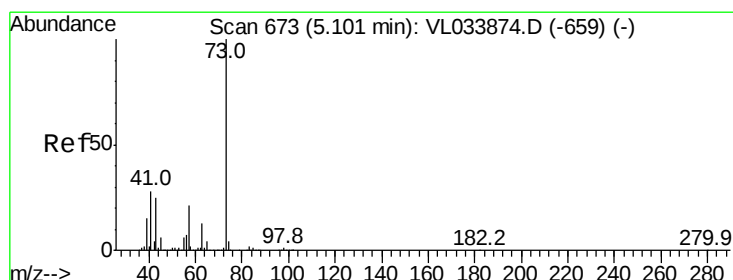
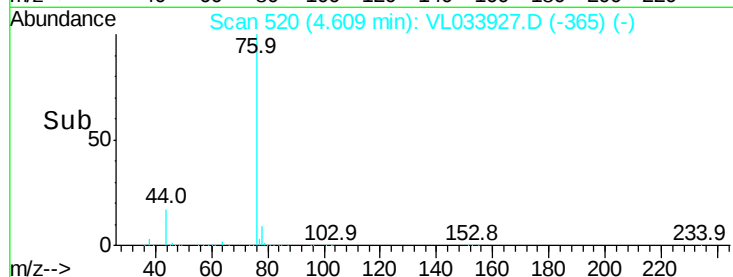
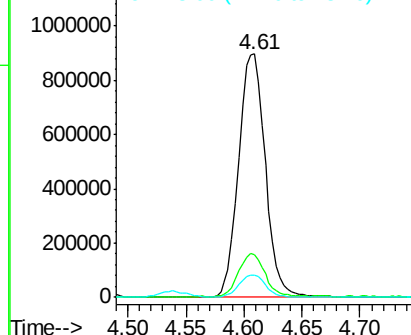
76 100

44 17.5 14.4 21.6

78 9.2 7.5 11.3



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: 11.041 ppbv

RT: 5.10 min Scan# 672

Delta R.T. -0.00 min

Lab File: VL033927.D

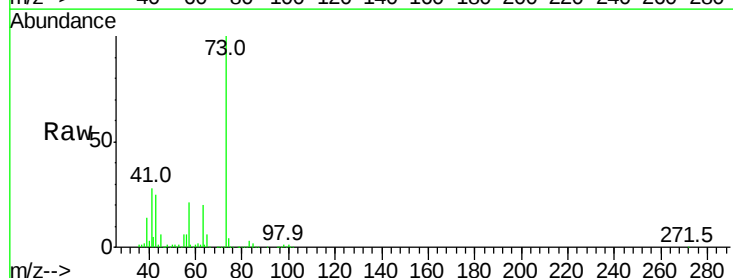
Acq: 14 Jun 2019 12:57

Tgt Ion: 73 Resp: 1723382

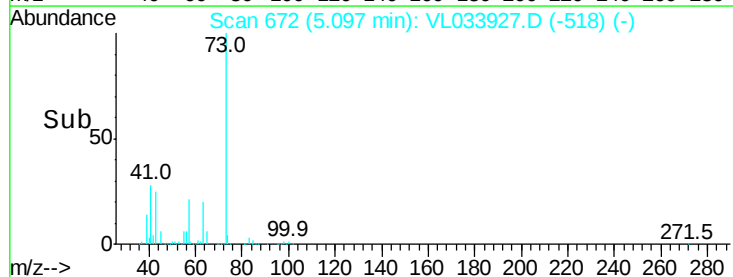
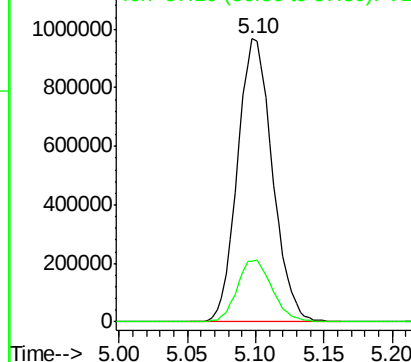
Ion Ratio Lower Upper

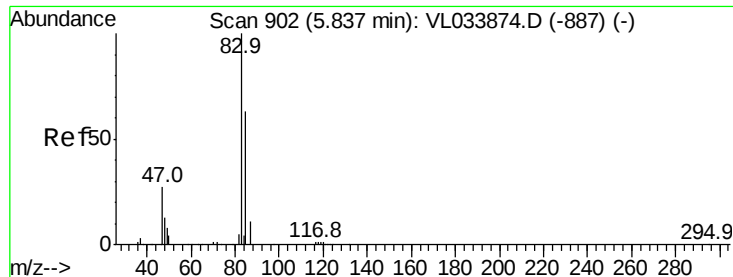
73 100

57 22.1 17.2 25.8



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





#29

Chloroform

Concen: 9.430 ppbv

RT: 5.84 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

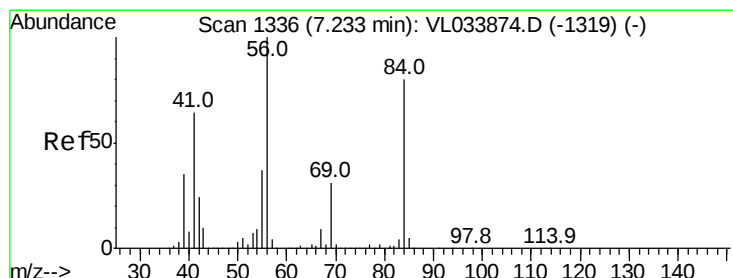
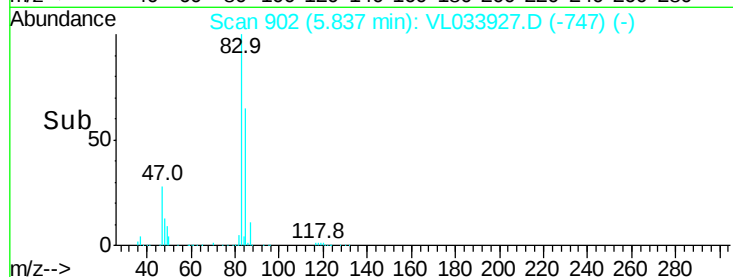
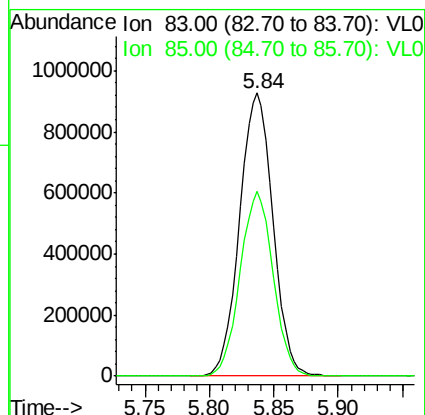
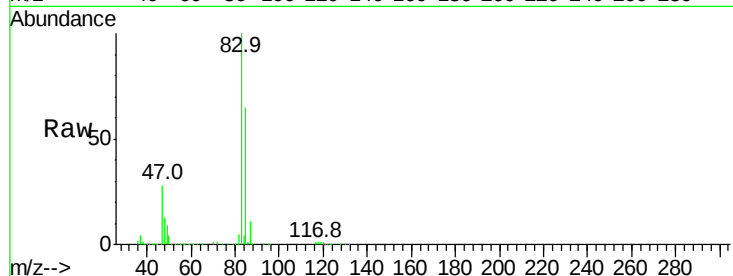
VL0613ABS01

Tgt Ion: 83 Resp: 1667122

Ion Ratio Lower Upper

83 100

85 65.0 50.5 75.7



#30

Cyclohexane

Concen: 11.658 ppbv

RT: 7.23 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

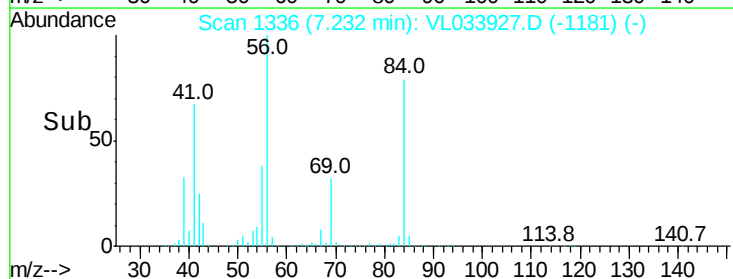
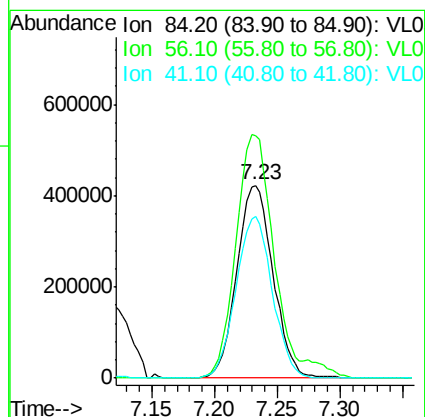
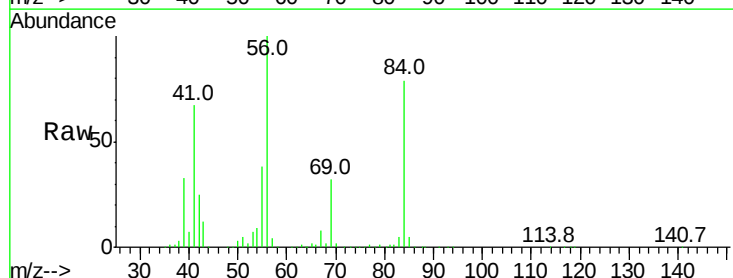
Tgt Ion: 84 Resp: 850214

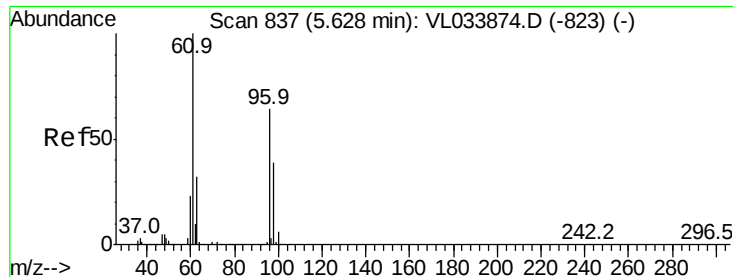
Ion Ratio Lower Upper

84 100

56 135.0 105.8 158.8

41 84.1 65.7 98.5



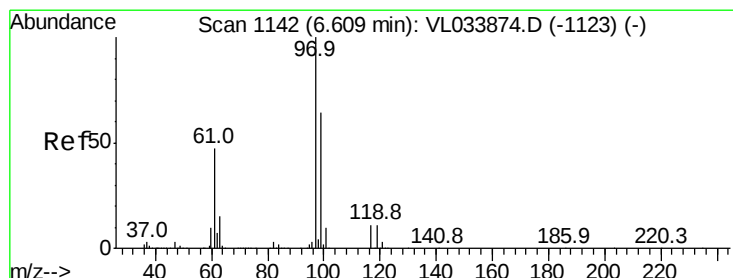
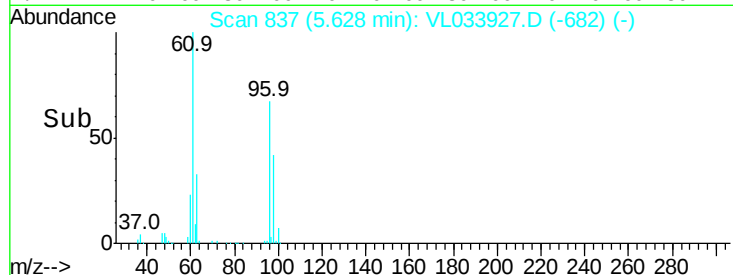
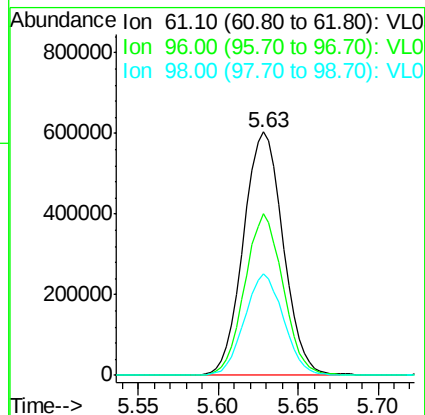
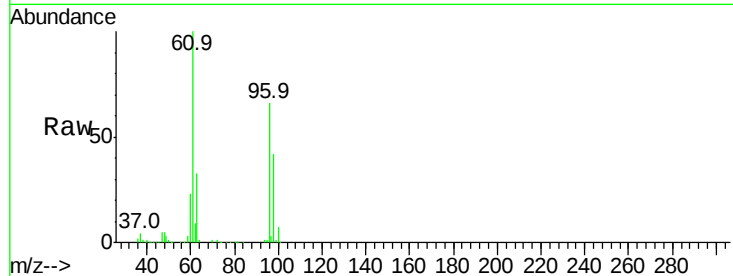


#31

cis-1,2-Dichloroethene  
 Concen: 11.288 ppbv  
 RT: 5.63 min Scan# 837  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

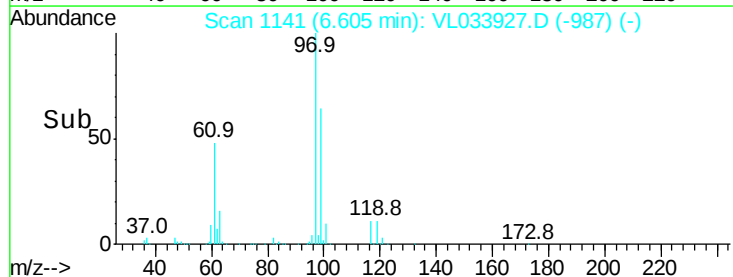
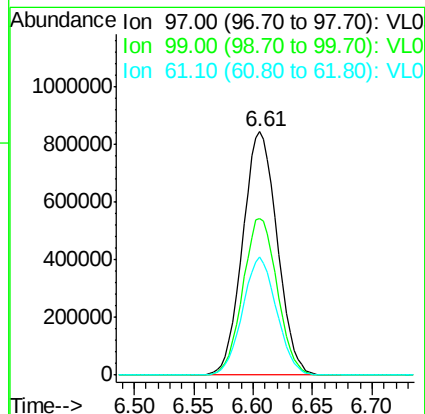
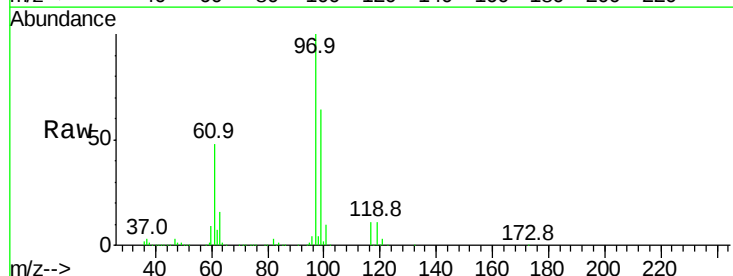
Tgt Ion: 61 Resp: 1021735  
 Ion Ratio Lower Upper  
 61 100  
 96 66.5 50.9 76.3  
 98 41.6 31.4 47.2

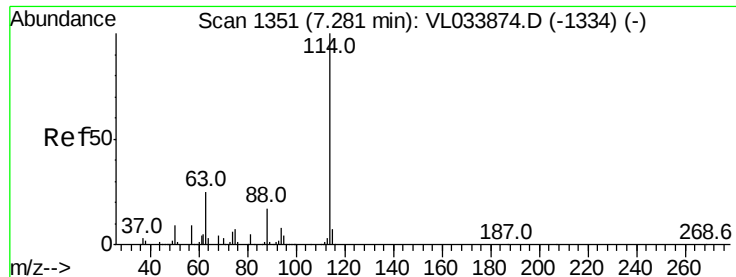


#32

1,1,1-Trichloroethane  
 Concen: 9.968 ppbv  
 RT: 6.61 min Scan# 1141  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Tgt Ion: 97 Resp: 1699919  
 Ion Ratio Lower Upper  
 97 100  
 99 64.3 51.7 77.5  
 61 47.9 37.7 56.5

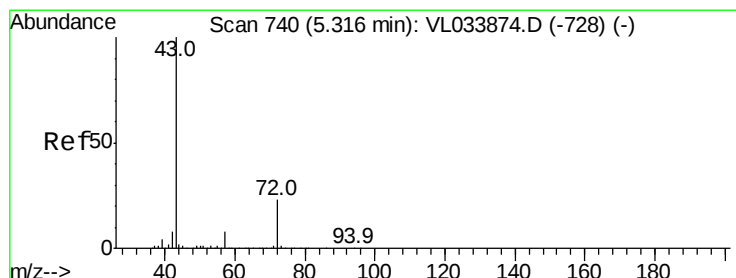
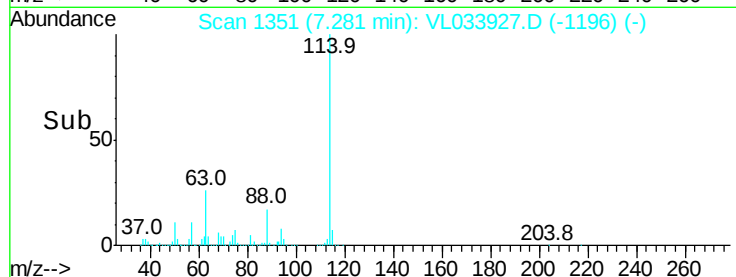
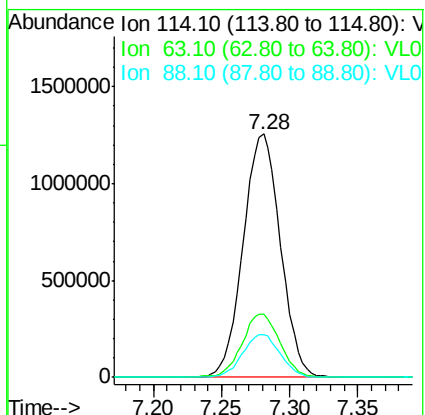
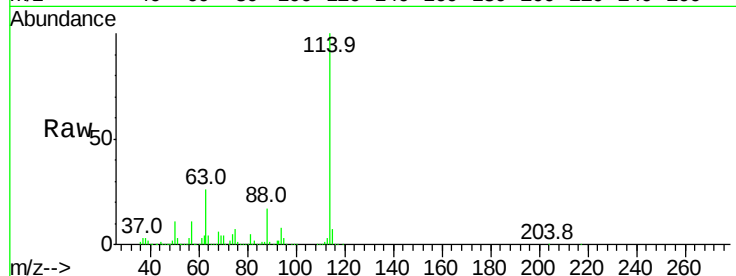




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.28 min Scan# 1351  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

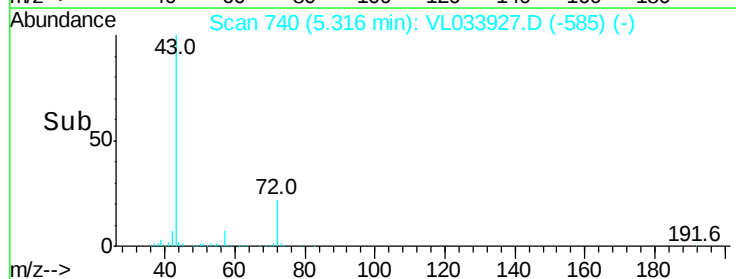
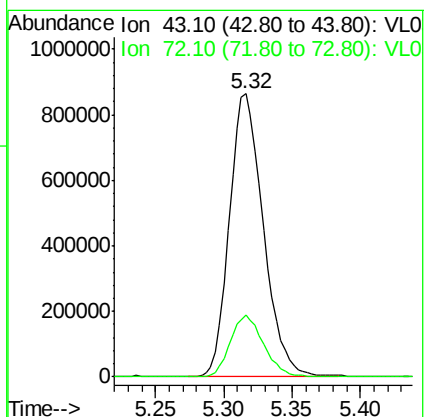
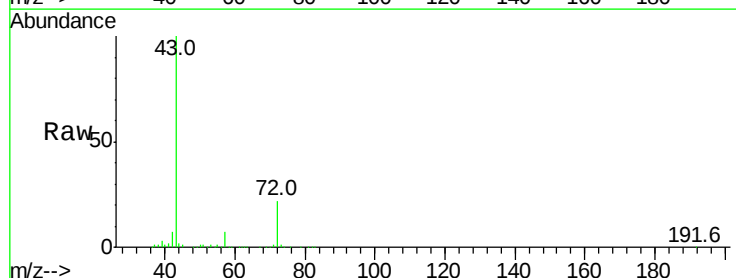
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

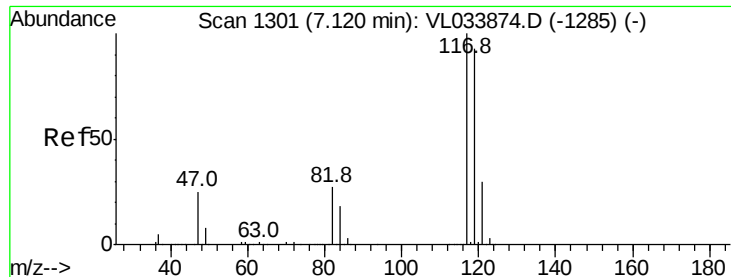
Tgt Ion:114 Resp: 2379947  
 Ion Ratio Lower Upper  
 114 100  
 63 26.8 21.1 31.7  
 88 17.7 14.2 21.4



#34  
 2-Butanone  
 Concen: 11.106 ppbv  
 RT: 5.32 min Scan# 740  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Tgt Ion: 43 Resp: 1491140  
 Ion Ratio Lower Upper  
 43 100  
 72 21.6 17.9 26.9





#35

Carbon Tetrachloride

Concen: 10.183 ppbv

RT: 7.12 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

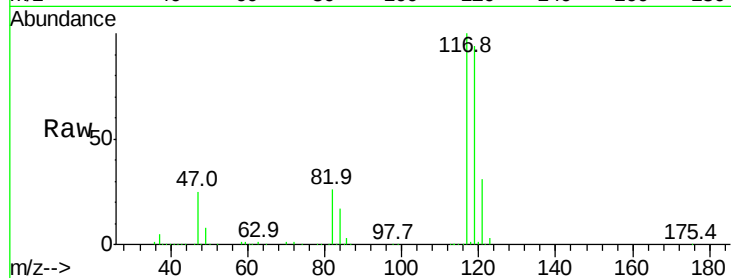
Tgt Ion: 117 Resp: 1872382

Ion Ratio Lower Upper

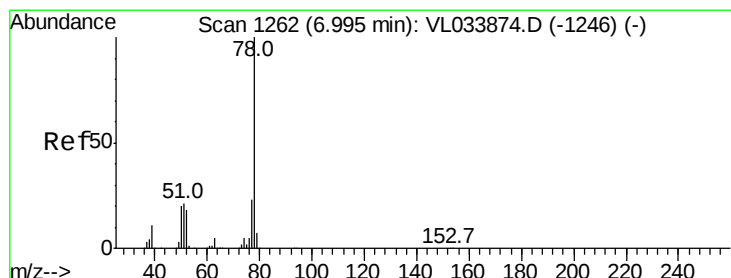
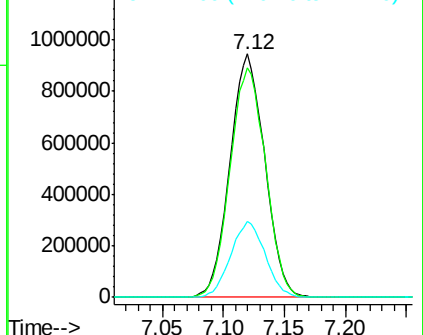
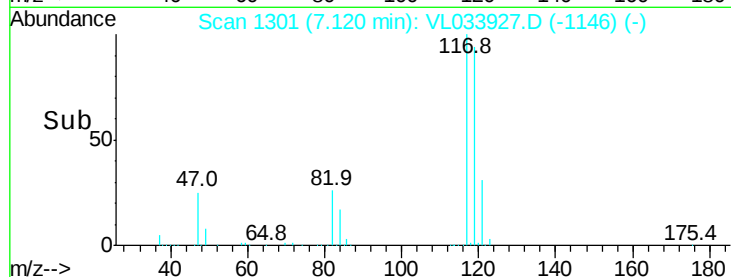
117 100

119 94.1 74.6 111.8

121 31.5 24.0 36.0



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: 11.302 ppbv

RT: 6.99 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

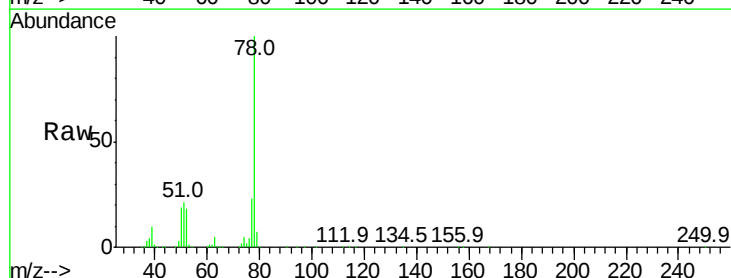
Tgt Ion: 78 Resp: 2054742

Ion Ratio Lower Upper

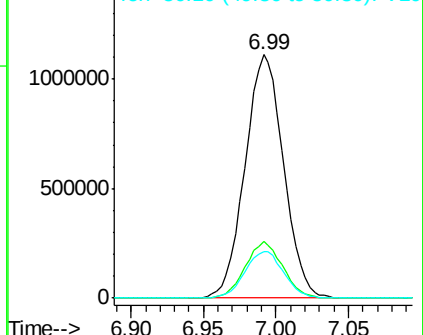
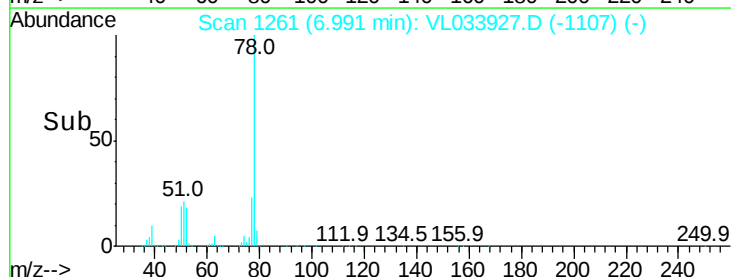
78 100

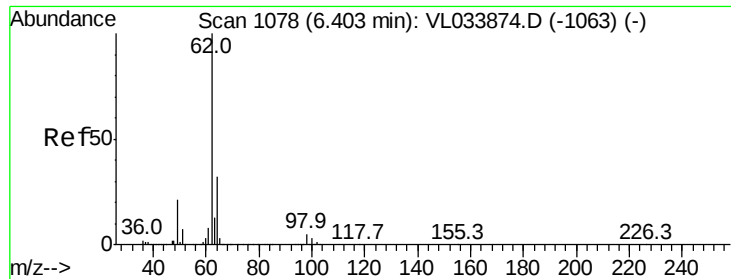
77 23.2 18.2 27.2

50 19.1 15.9 23.9



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

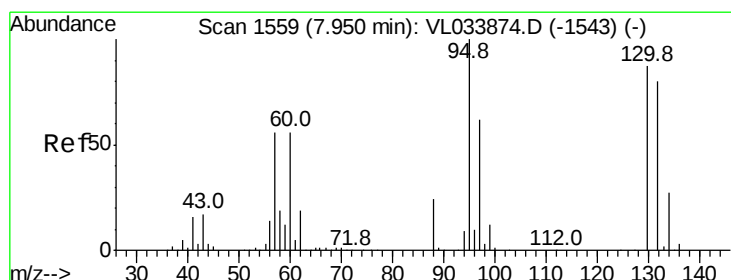
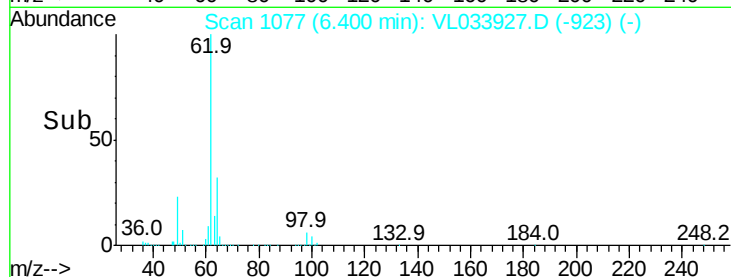
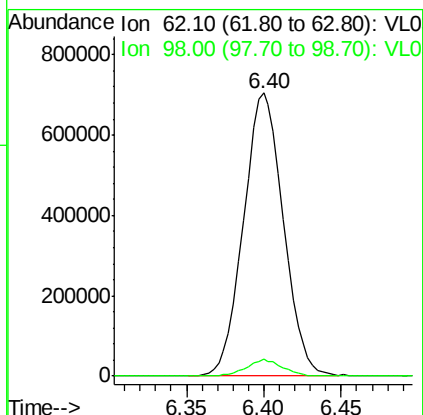
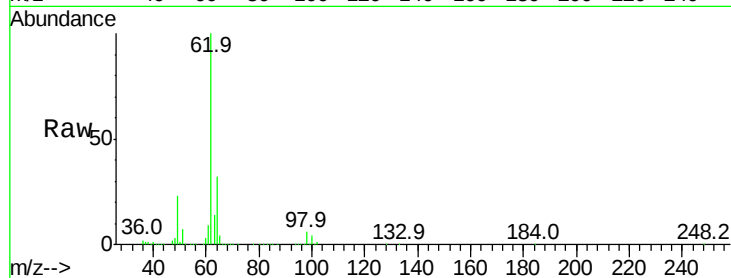




#37  
 1,2-Dichloroethane  
 Concen: 9.407 ppbv  
 RT: 6.40 min Scan# 1077  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

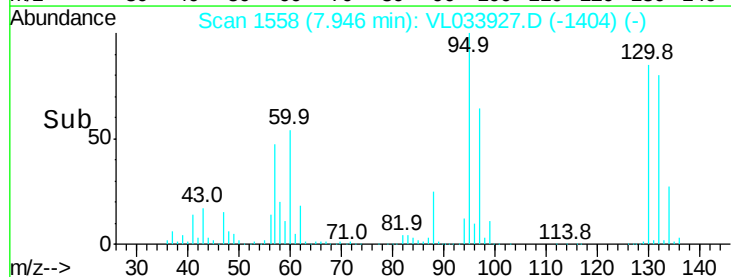
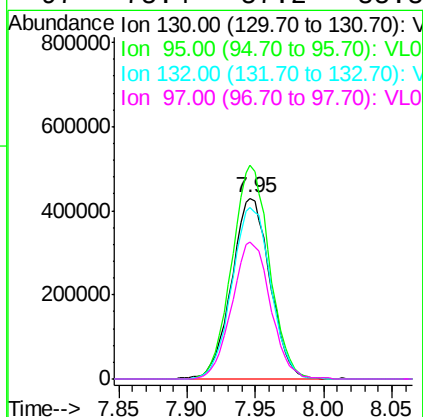
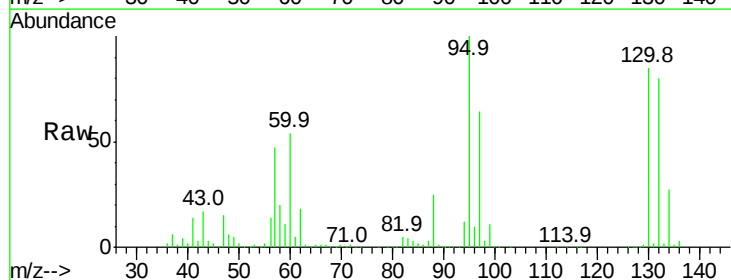
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

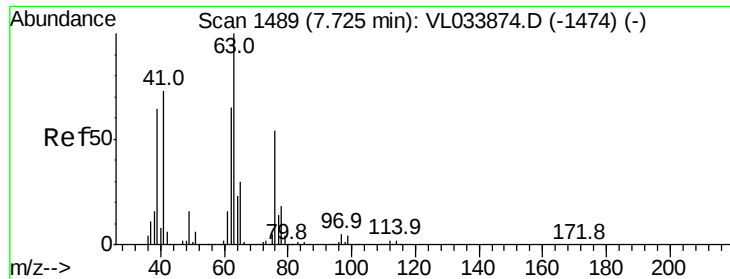
Tgt Ion: 62 Resp: 1264795  
 Ion Ratio Lower Upper  
 62 100  
 98 5.5 4.0 6.0



#38  
 Trichloroethene  
 Concen: 11.873 ppbv  
 RT: 7.95 min Scan# 1558  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Tgt Ion: 130 Resp: 840429  
 Ion Ratio Lower Upper  
 130 100  
 95 118.2 92.0 138.0  
 132 94.7 73.8 110.8  
 97 75.4 57.2 85.8





#39

1,2-Dichloropropane

Concen: 11.026 ppbv

RT: 7.72 min Scan# 1488

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

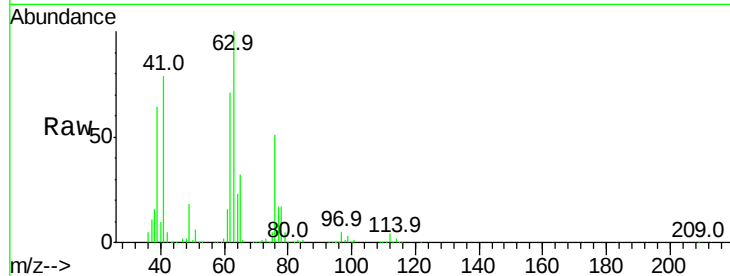
Tgt Ion: 63 Resp: 773638

Ion Ratio Lower Upper

63 100

41 78.8 58.7 88.1

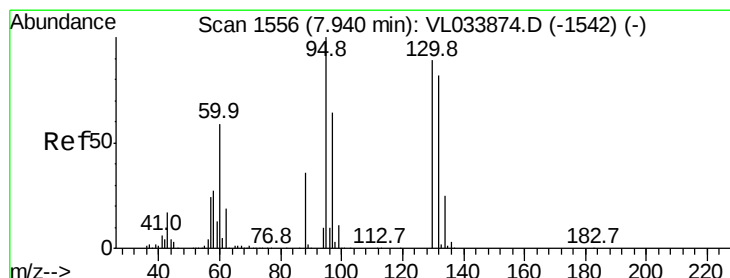
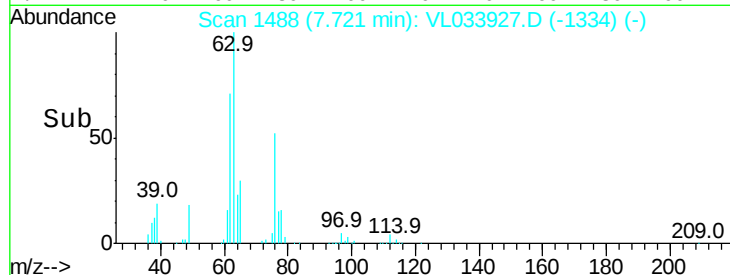
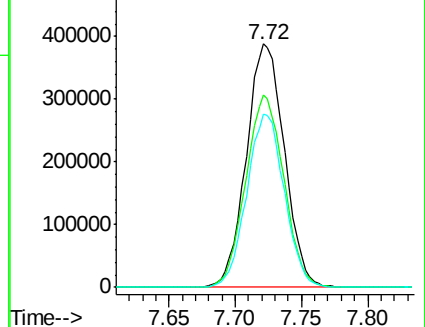
62 70.9 51.9 77.9



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 11.492 ppbv

RT: 7.94 min Scan# 1556

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Tgt Ion: 88 Resp: 328873

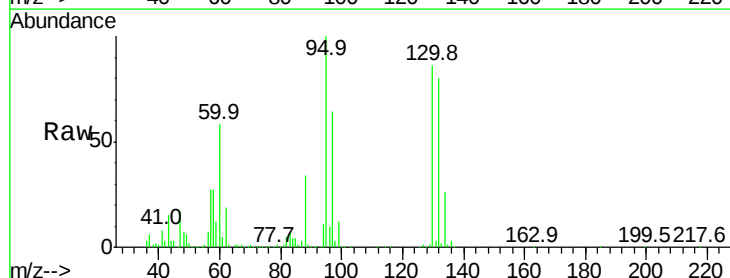
Ion Ratio Lower Upper

88 100

58 126.5 100.0 150.0

43 242.6 184.7 277.1

57 1082.2 826.8 1240.2

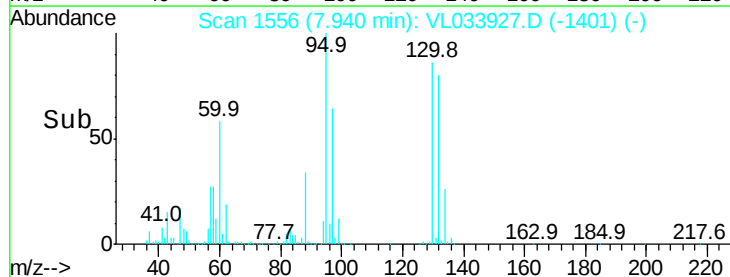
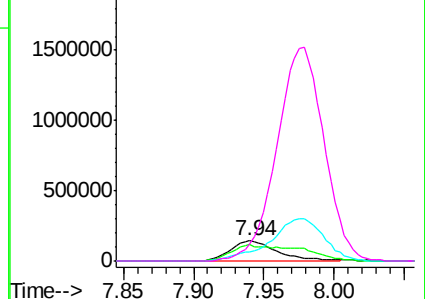


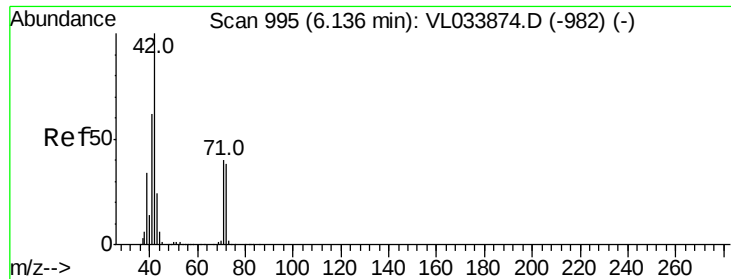
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 12.044 ppbv

RT: 6.14 min Scan# 995

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

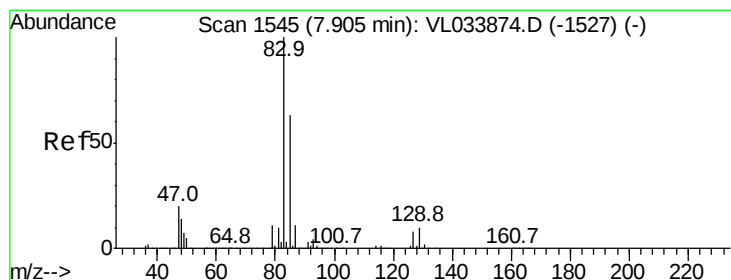
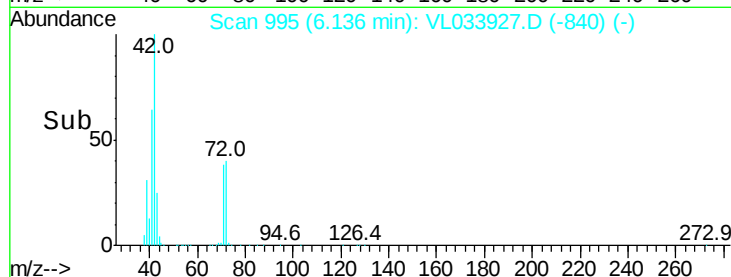
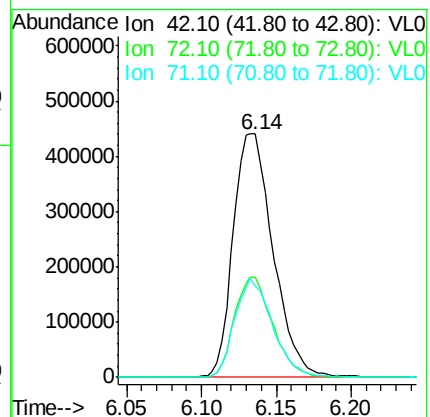
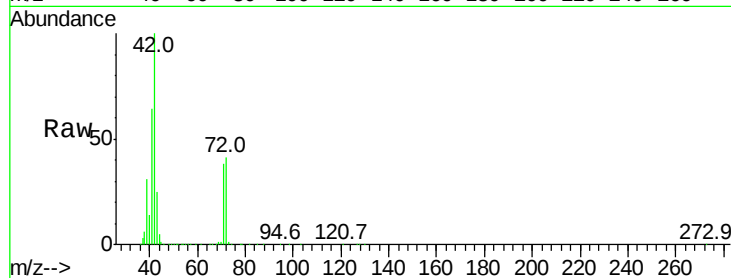
Tgt Ion: 42 Resp: 820741

Ion Ratio Lower Upper

42 100

72 39.7 32.2 48.4

71 38.6 31.7 47.5



#42

Bromodichloromethane

Concen: 10.361 ppbv

RT: 7.90 min Scan# 1545

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

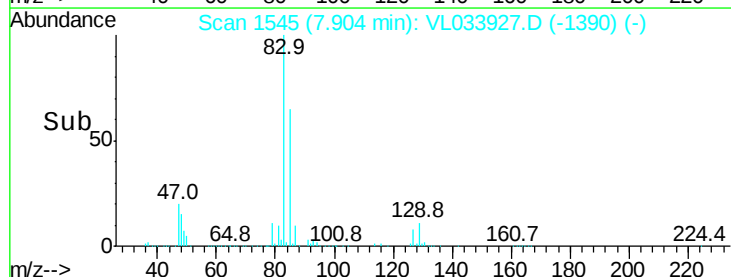
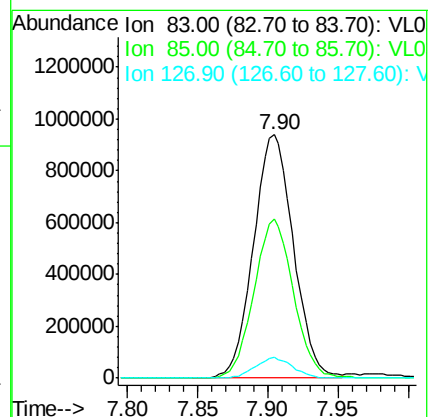
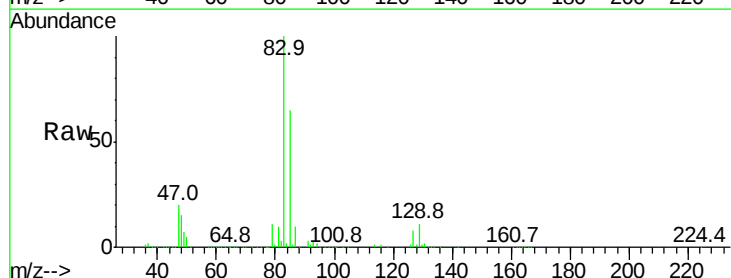
Tgt Ion: 83 Resp: 1861601

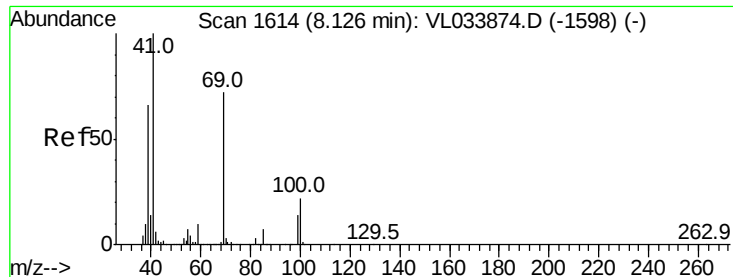
Ion Ratio Lower Upper

83 100

85 65.4 50.2 75.2

127 8.3 6.5 9.7





#43

Methyl Methacrylate

Concen: 12.129 ppbv

RT: 8.12 min Scan# 1613

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

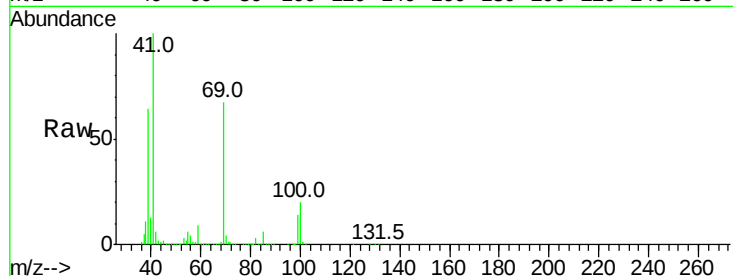
Tgt Ion: 69 Resp: 824685

Ion Ratio Lower Upper

69 100

41 149.6 114.3 171.5

100 30.4 24.8 37.2



Abundance Ion 69.10 (68.80 to 69.80): VL0

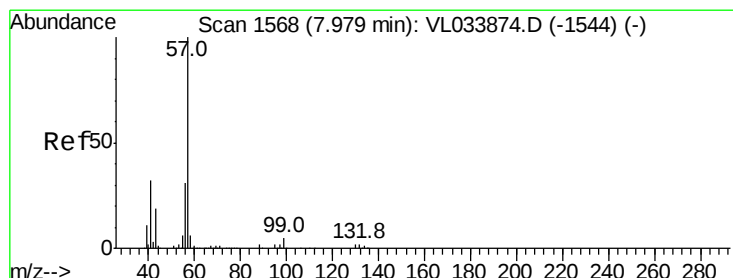
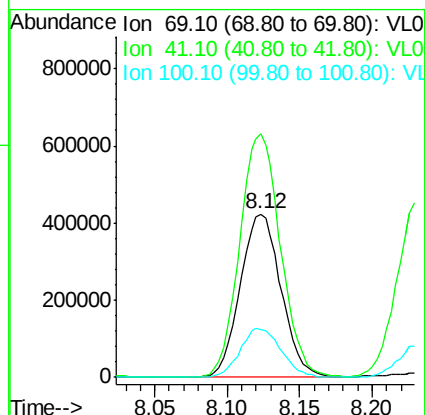
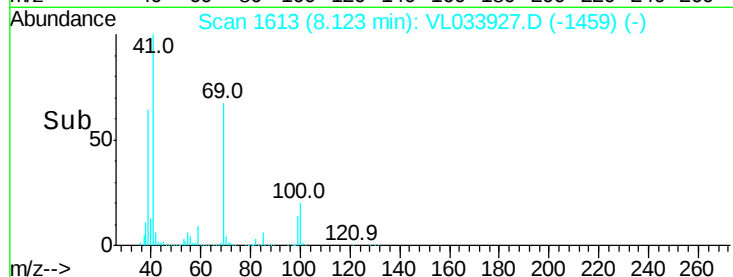
Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

8.12

8.15

8.20



#44

2,2,4-Trimethylpentane

Concen: 10.995 ppbv

RT: 7.98 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

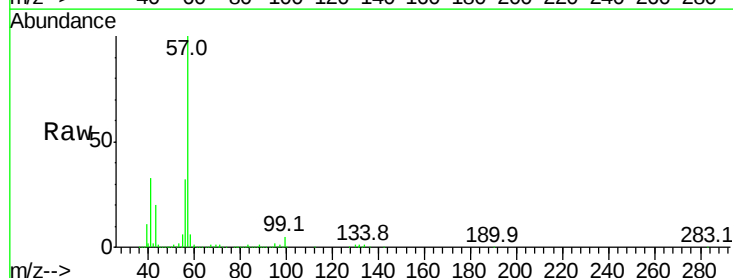
Tgt Ion: 57 Resp: 3554770

Ion Ratio Lower Upper

57 100

41 31.8 26.1 39.1

56 31.1 24.6 36.8



Abundance Ion 57.10 (56.80 to 57.80): VL0

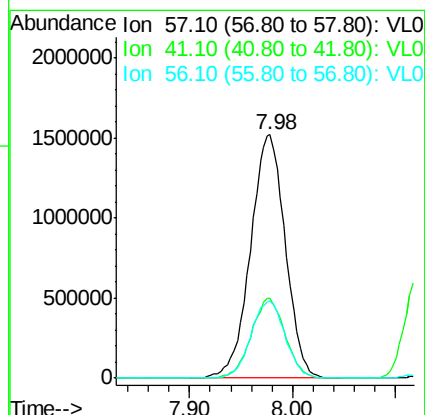
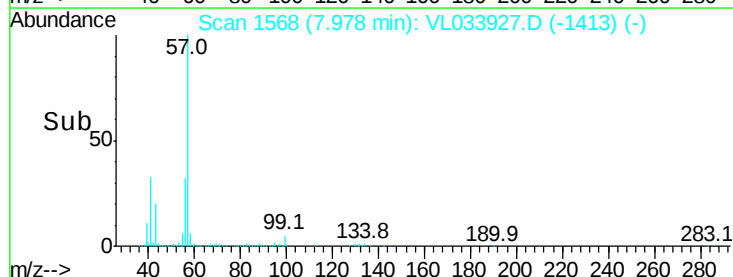
Ion 41.10 (40.80 to 41.80): VL0

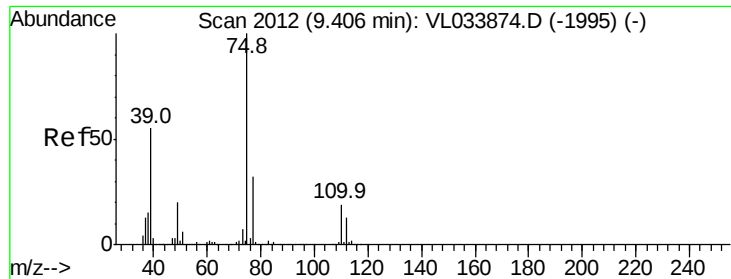
Ion 56.10 (55.80 to 56.80): VL0

7.98

8.00

Time-->





#45

t-1,3-Dichloropropene

Concen: 12.246 ppbv

RT: 9.40 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

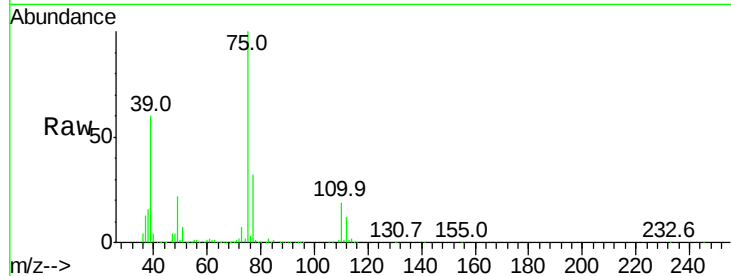
VL0613ABS01

Tgt Ion: 75 Resp: 1092543

Ion Ratio Lower Upper

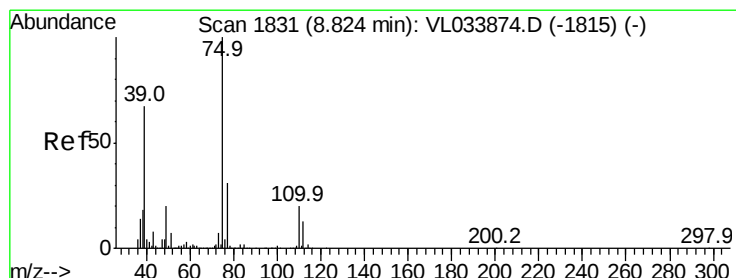
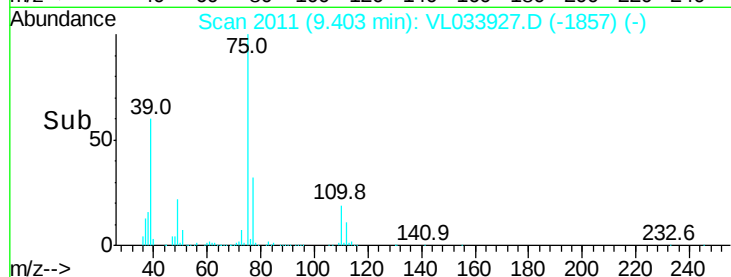
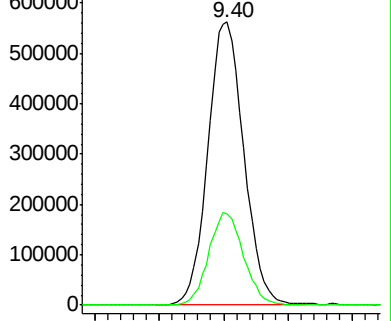
75 100

77 32.4 25.4 38.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 12.338 ppbv

RT: 8.82 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

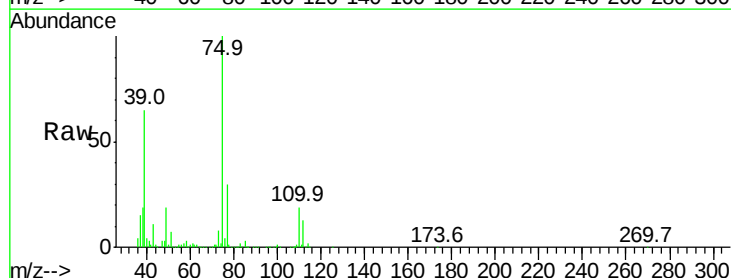
Tgt Ion: 75 Resp: 1261092

Ion Ratio Lower Upper

75 100

39 65.0 53.8 80.8

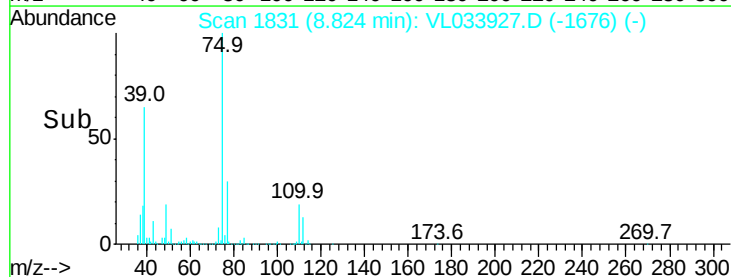
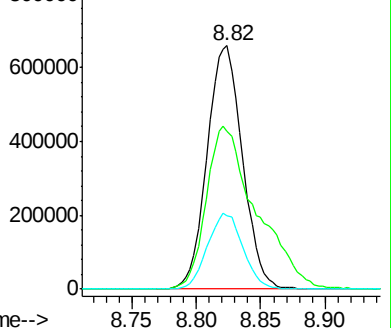
77 30.1 24.6 36.8

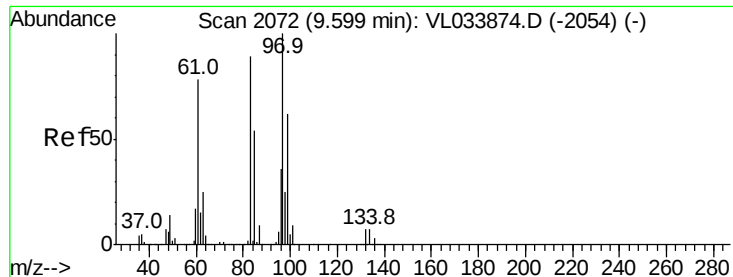


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 9.934 ppbv

RT: 9.60 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

Tgt Ion: 97 Resp: 830942

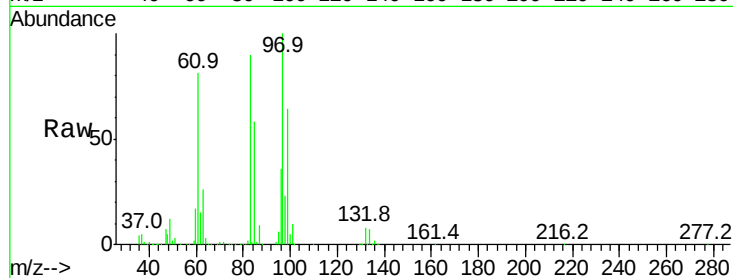
Ion Ratio Lower Upper

97 100

83 90.4 70.9 106.3

85 58.4 43.0 64.6

99 63.5 49.3 73.9

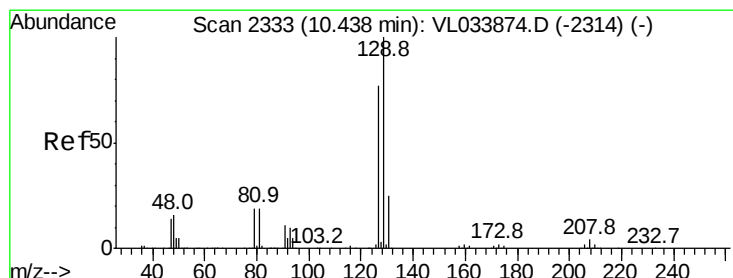
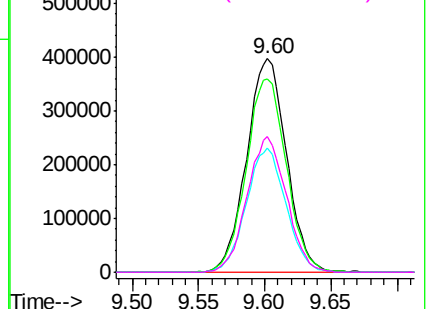
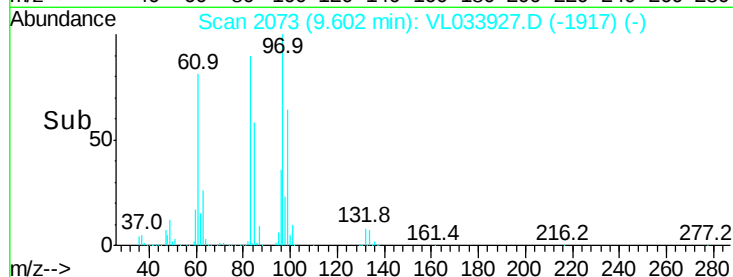


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 10.337 ppbv

RT: 10.44 min Scan# 2333

Delta R.T. -0.00 min

Lab File: VL033927.D

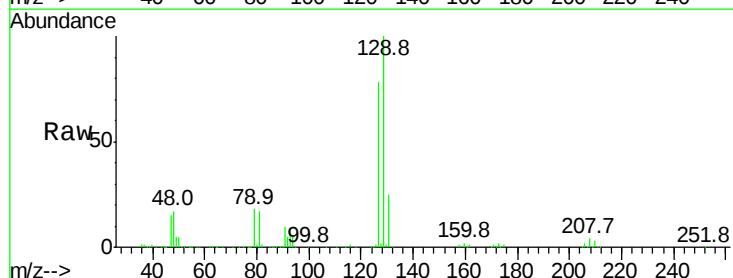
Acq: 14 Jun 2019 12:57

Tgt Ion: 129 Resp: 1553861

Ion Ratio Lower Upper

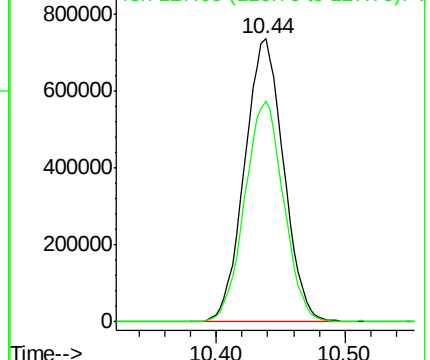
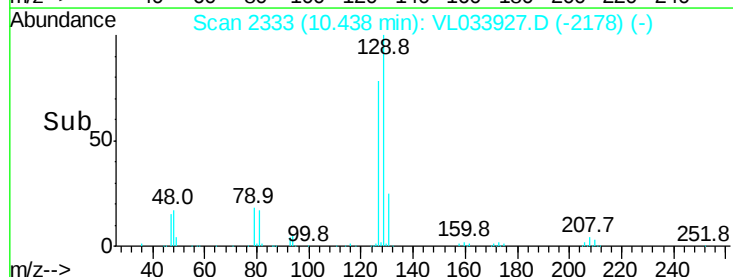
129 100

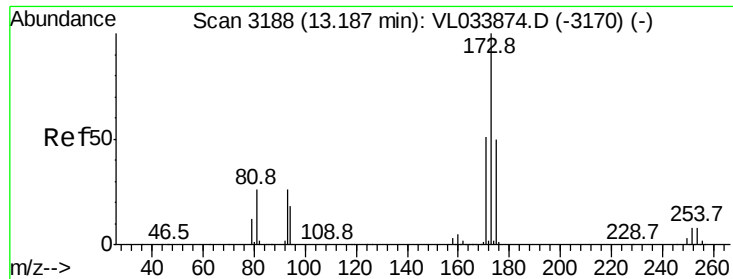
127 77.7 38.6 115.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.627 ppbv

RT: 13.19 min Scan# 3188

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

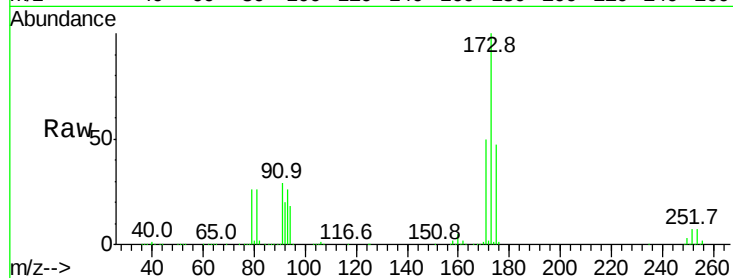
Tgt Ion:173 Resp: 1410207

Ion Ratio Lower Upper

173 100

175 48.8 39.6 59.4

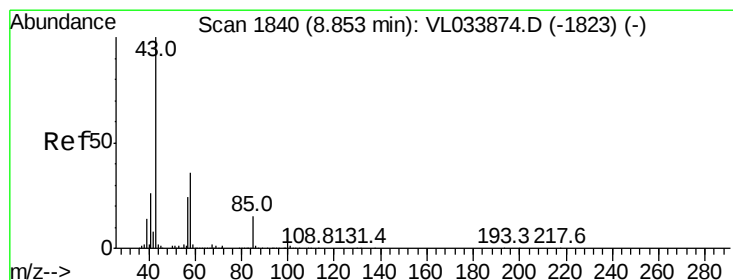
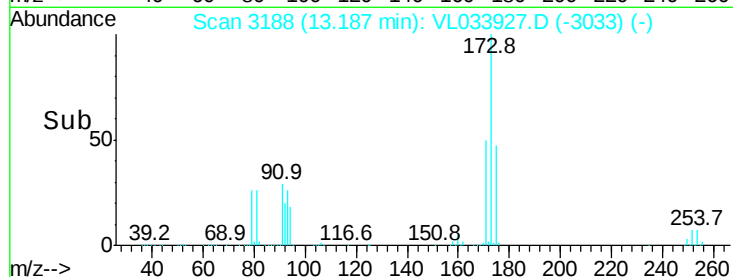
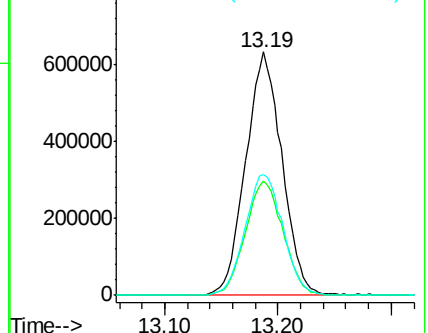
171 51.9 41.8 62.8



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: 11.254 ppbv

RT: 8.86 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VL033927.D

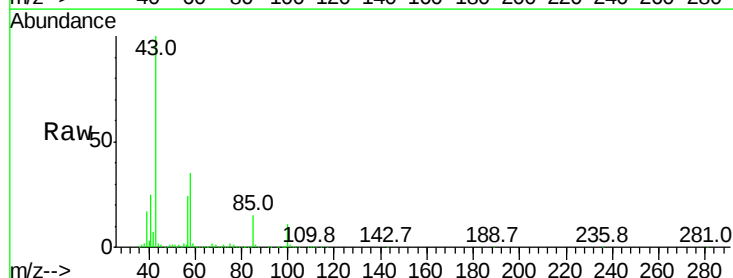
Acq: 14 Jun 2019 12:57

Tgt Ion: 43 Resp: 2253074

Ion Ratio Lower Upper

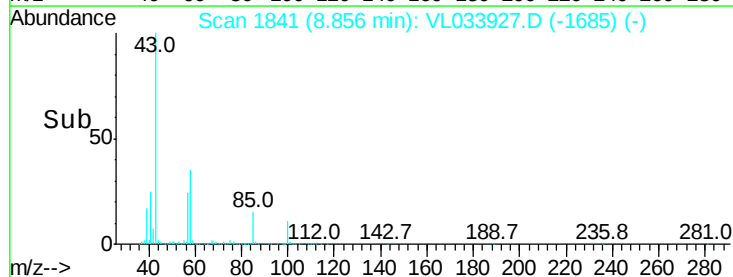
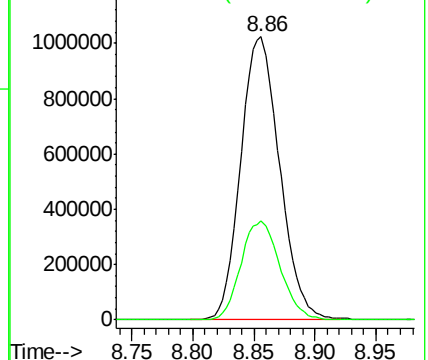
43 100

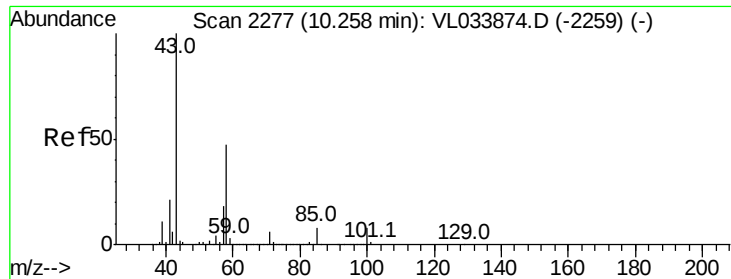
58 35.2 28.6 42.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 11.563 ppbv

RT: 10.25 min Scan# 2276

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

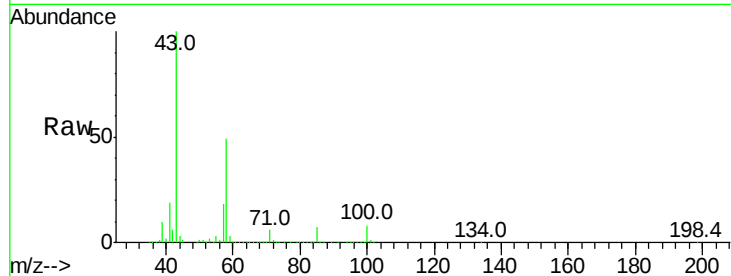
Tgt Ion: 43 Resp: 1807798

Ion Ratio Lower Upper

43 100

58 47.7 38.2 57.4

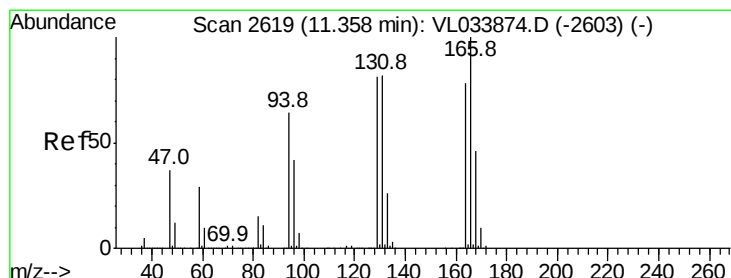
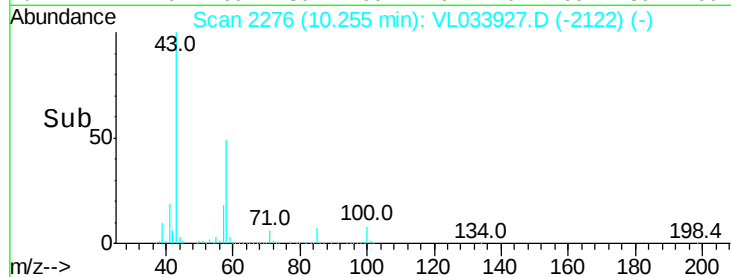
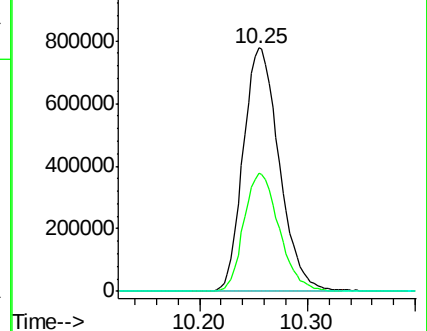
98 0.4 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 11.605 ppbv

RT: 11.36 min Scan# 2619

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Tgt Ion: 164 Resp: 742368

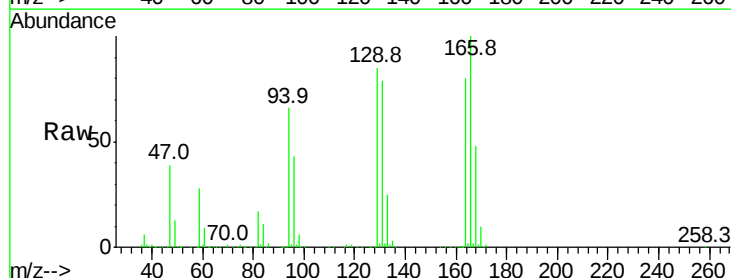
Ion Ratio Lower Upper

164 100

166 125.0 103.1 154.7

129 106.4 83.9 125.9

131 99.2 85.1 127.7

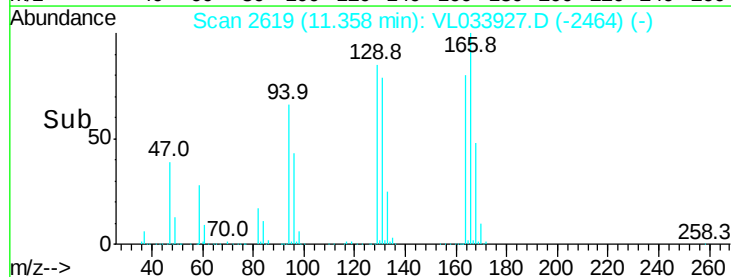
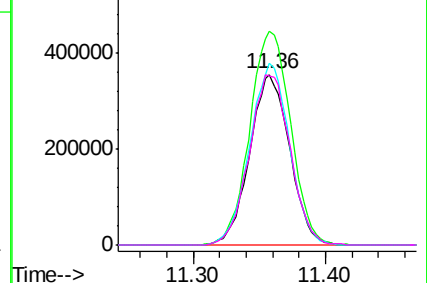


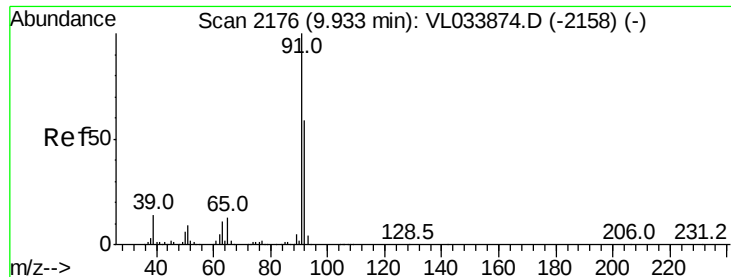
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.515 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

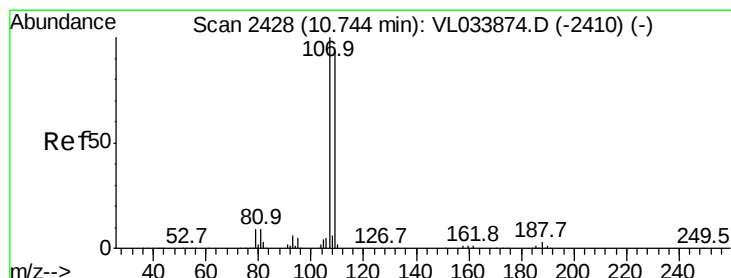
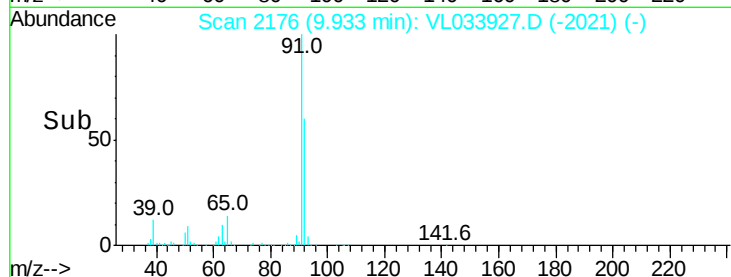
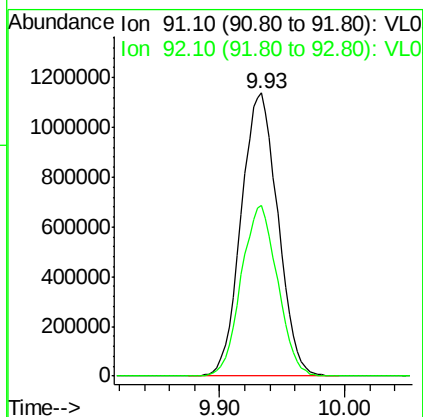
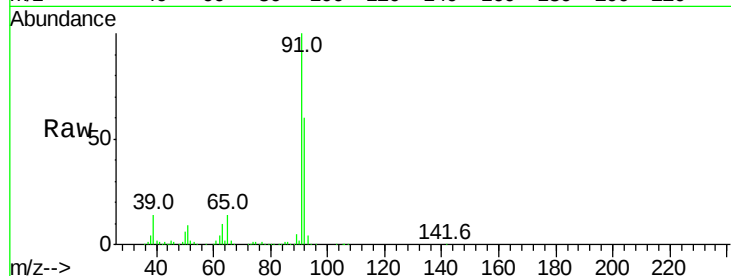
VL0613ABS01

Tgt Ion: 91 Resp: 2316554

Ion Ratio Lower Upper

91 100

92 59.8 47.0 70.6



#54

1,2-Dibromoethane

Concen: 10.433 ppbv

RT: 10.74 min Scan# 2428

Delta R.T. -0.00 min

Lab File: VL033927.D

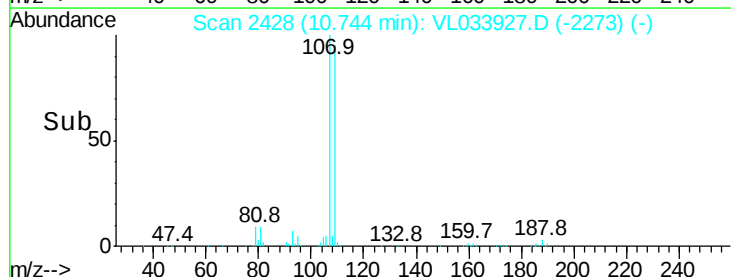
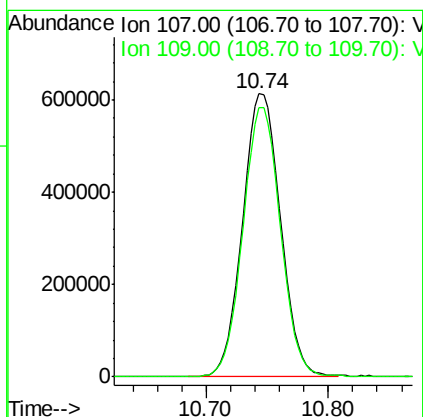
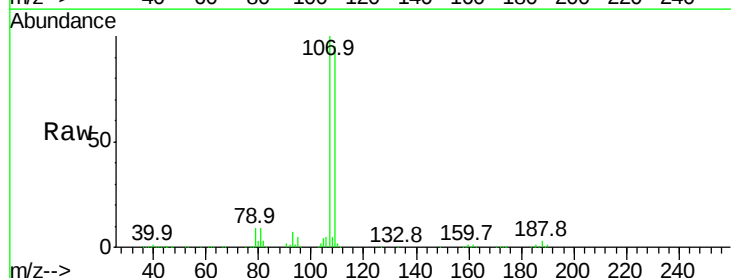
Acq: 14 Jun 2019 12:57

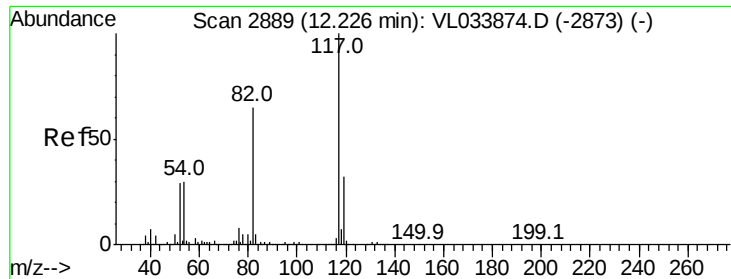
Tgt Ion: 107 Resp: 1315540

Ion Ratio Lower Upper

107 100

109 95.2 74.9 112.3

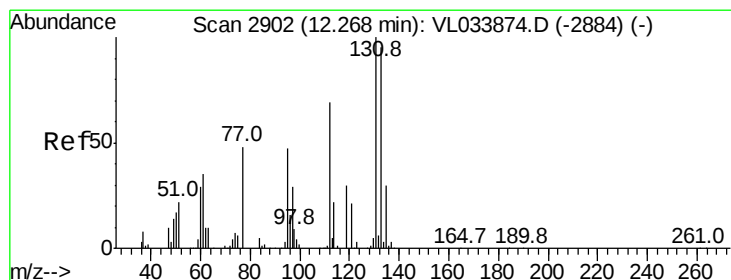
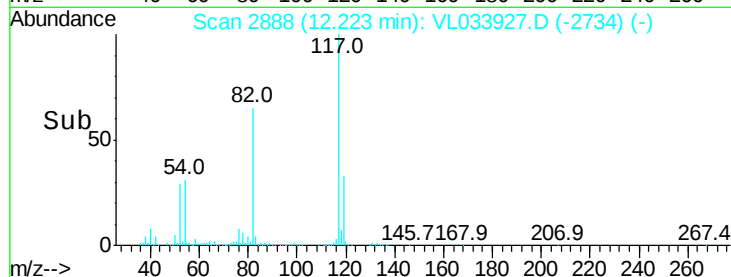
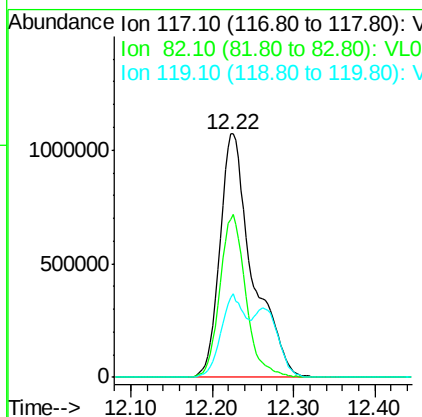
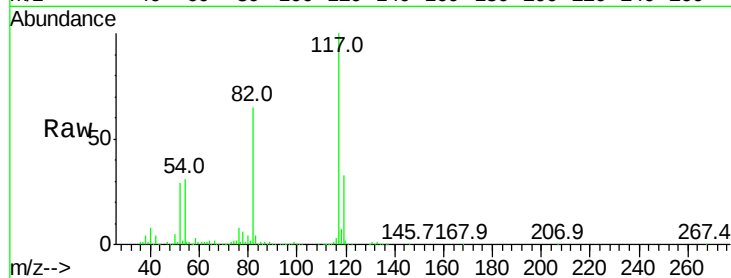




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.22 min Scan# 2888  
Delta R.T. -0.00 min  
Lab File: VL033927.D  
Acq: 14 Jun 2019 12:57

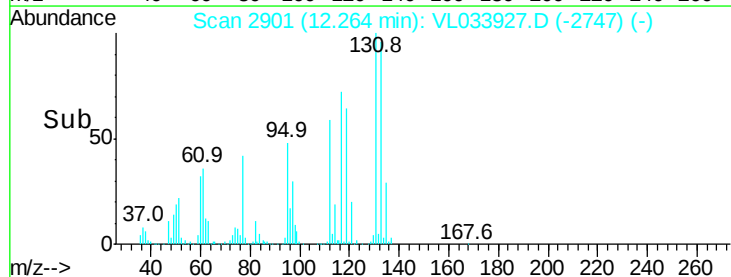
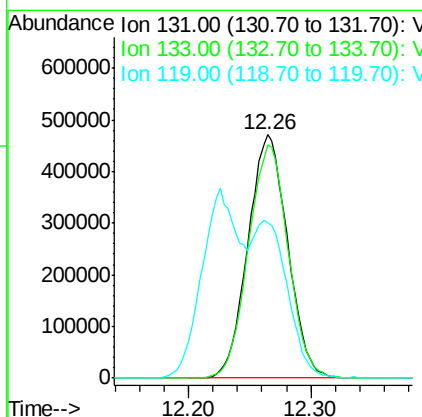
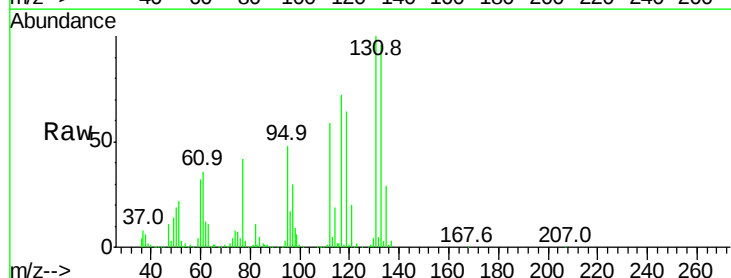
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0613ABS01

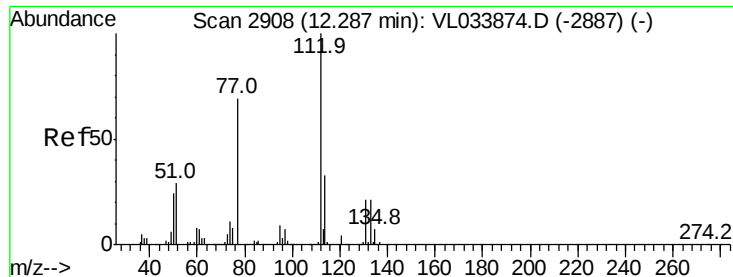
Tgt Ion:117 Resp: 3015400  
Ion Ratio Lower Upper  
117 100  
82 53.6 50.2 75.2  
119 25.3 24.8 37.2



#56  
1,1,1,2-Tetrachloroethane  
Concen: 8.015 ppbv  
RT: 12.26 min Scan# 2901  
Delta R.T. -0.00 min  
Lab File: VL033927.D  
Acq: 14 Jun 2019 12:57

Tgt Ion:131 Resp: 1055825  
Ion Ratio Lower Upper  
131 100  
133 96.7 76.5 114.7  
119 57.9 42.6 64.0





#57

Chlorobenzene

Concen: 8.173 ppbv

RT: 12.29 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

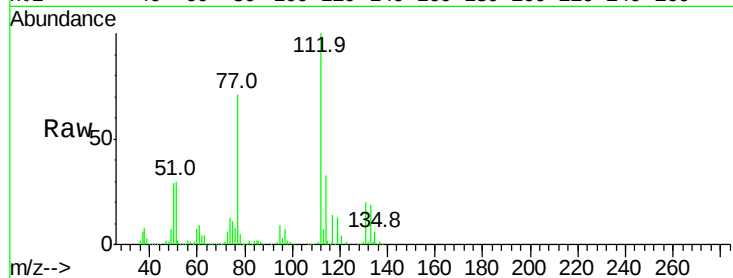
Tgt Ion: 112 Resp: 1845732

Ion Ratio Lower Upper

112 100

77 70.5 55.8 83.6

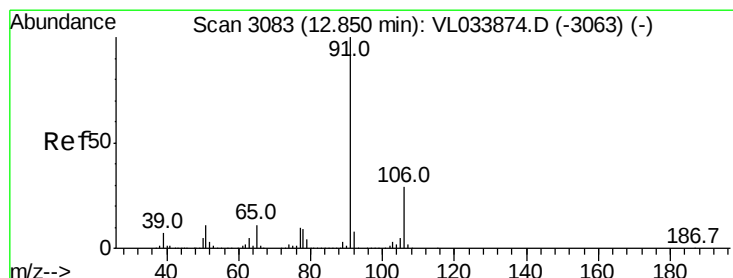
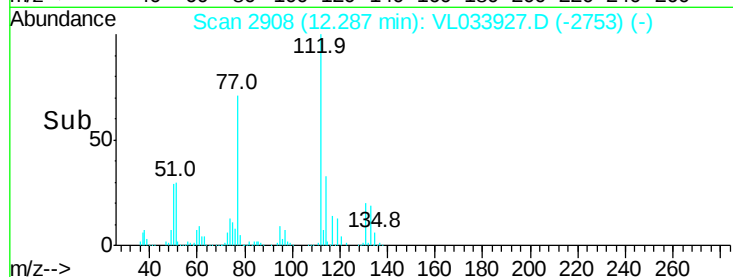
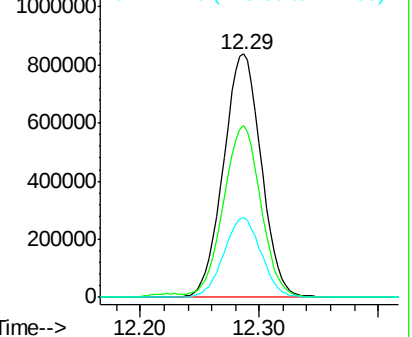
114 32.6 29.8 36.4



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: 9.408 ppbv

RT: 12.85 min Scan# 3083

Delta R.T. -0.00 min

Lab File: VL033927.D

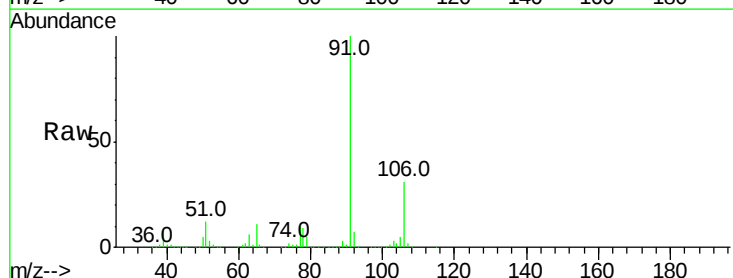
Acq: 14 Jun 2019 12:57

Tgt Ion: 91 Resp: 3198579

Ion Ratio Lower Upper

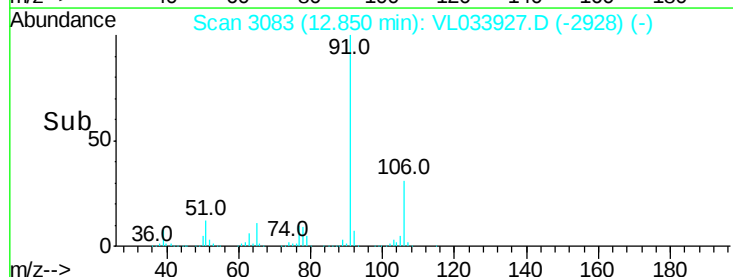
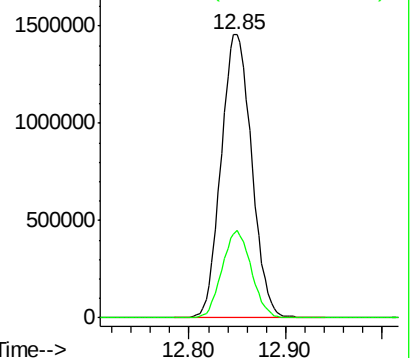
91 100

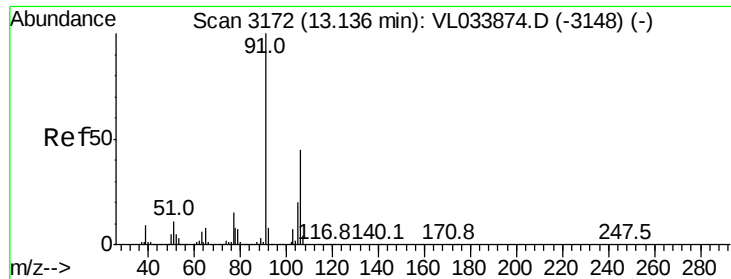
106 31.0 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

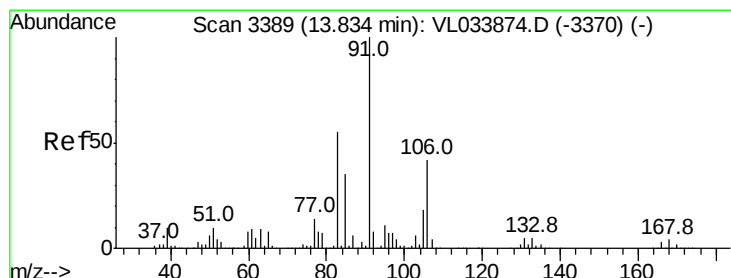
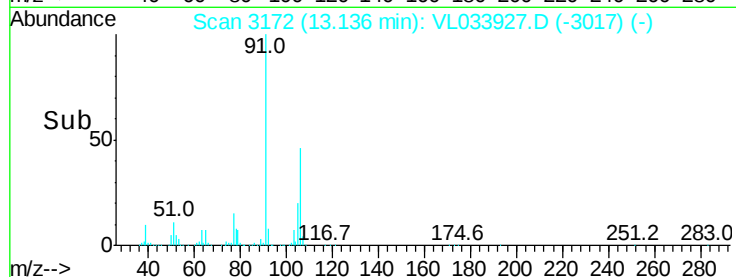
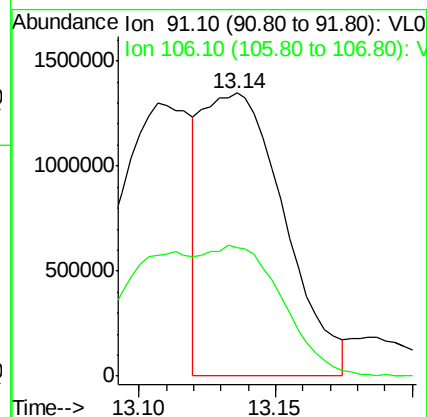
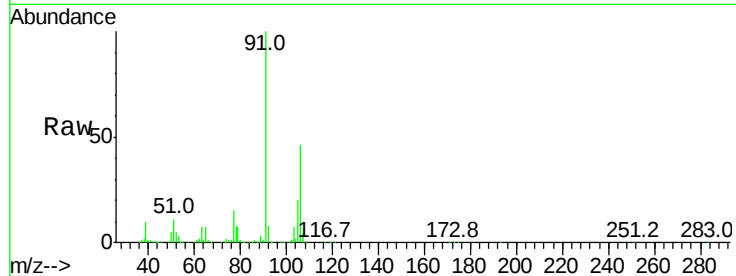




#59  
m/p-Xylene  
Concen: 9.041 ppbv  
RT: 13.14 min Scan# 3172  
Delta R.T. -0.00 min  
Lab File: VL033927.D  
Acq: 14 Jun 2019 12:57

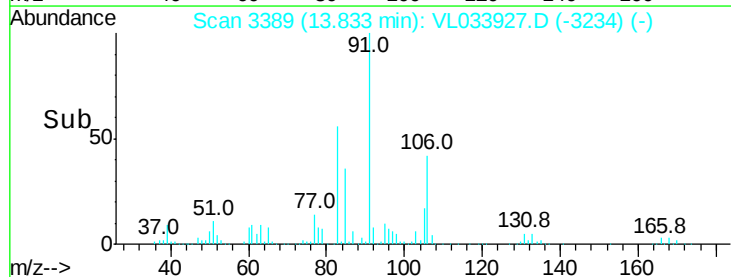
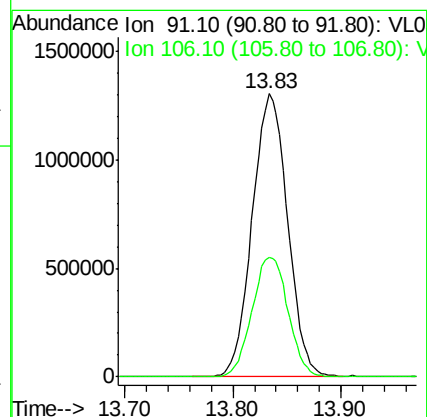
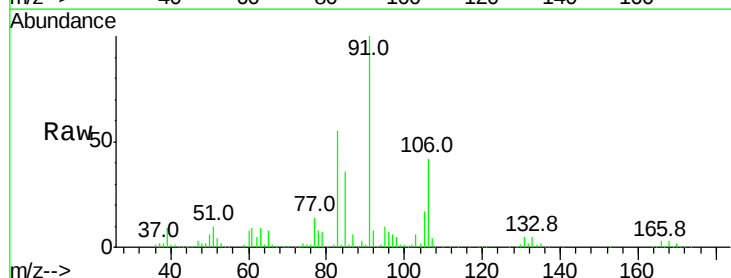
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0613ABS01

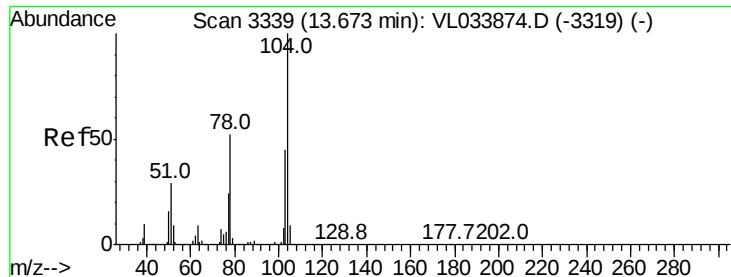
Tgt Ion: 91 Resp: 2795023  
Ion Ratio Lower Upper  
91 100  
106 86.2 35.8 53.8#



#60  
o-Xylene  
Concen: 9.320 ppbv  
RT: 13.83 min Scan# 3389  
Delta R.T. -0.00 min  
Lab File: VL033927.D  
Acq: 14 Jun 2019 12:57

Tgt Ion: 91 Resp: 2975021  
Ion Ratio Lower Upper  
91 100  
106 43.2 21.7 65.1





#61

Styrene

Concen: 10.534 ppbv

RT: 13.67 min Scan# 3339

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

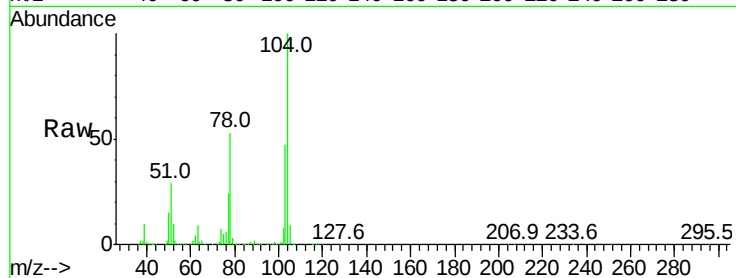
Tgt Ion:104 Resp: 2176002

Ion Ratio Lower Upper

104 100

78 54.2 43.4 65.0

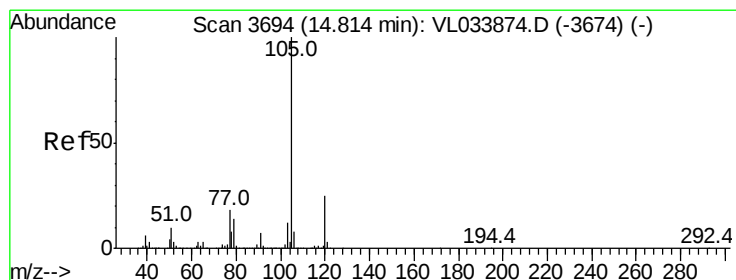
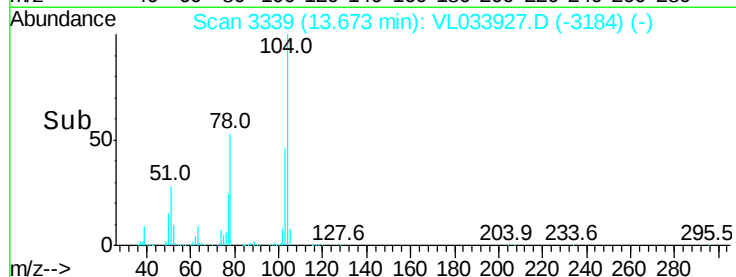
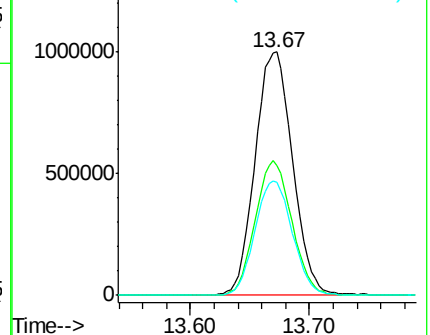
103 47.2 37.6 56.4



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: 9.189 ppbv

RT: 14.81 min Scan# 3693

Delta R.T. -0.00 min

Lab File: VL033927.D

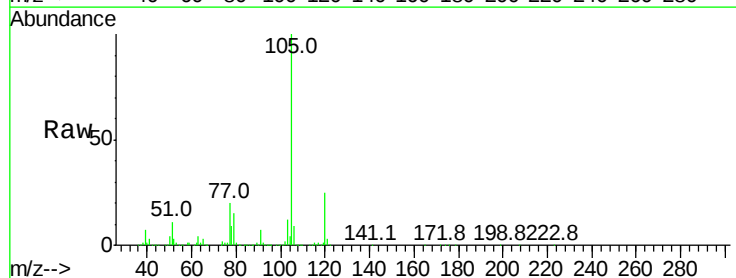
Acq: 14 Jun 2019 12:57

Tgt Ion:105 Resp: 3953200

Ion Ratio Lower Upper

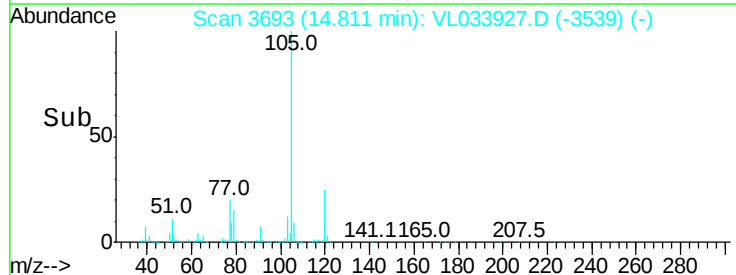
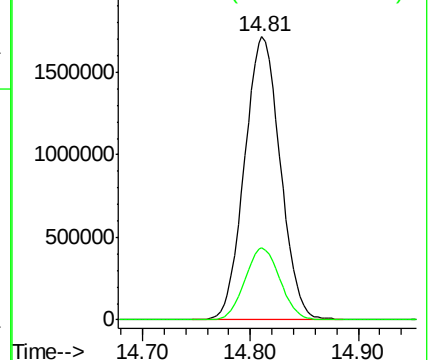
105 100

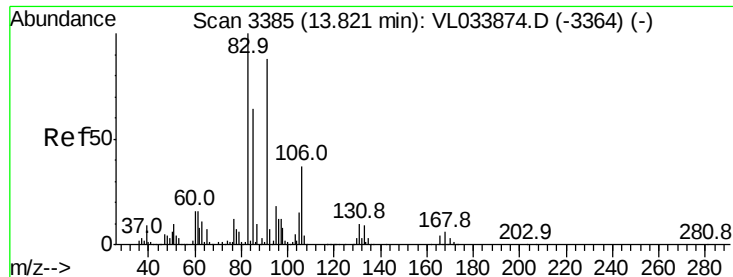
120 25.1 20.3 30.5



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: 8.781 ppbv

RT: 13.82 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

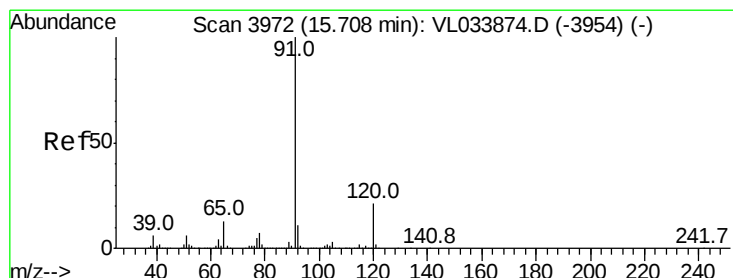
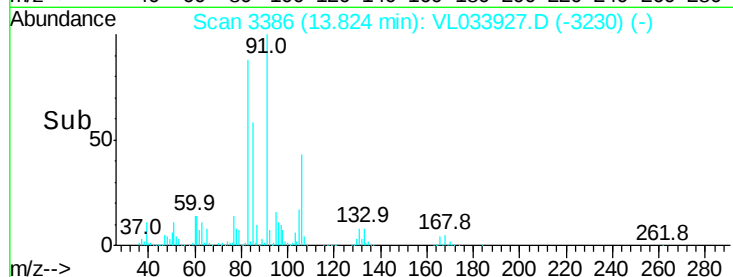
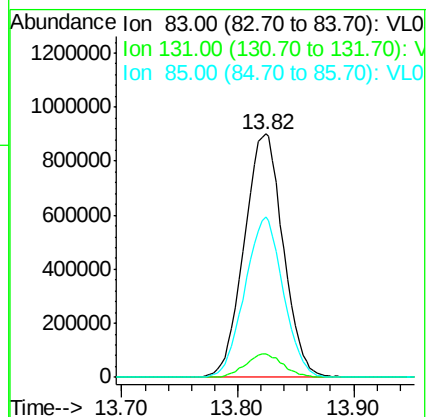
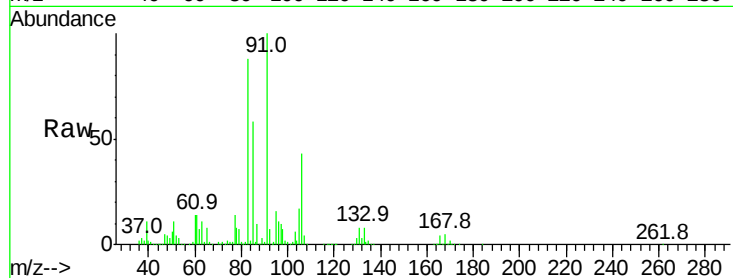
Tgt Ion: 83 Resp: 2109745

Ion Ratio Lower Upper

83 100

131 9.4 4.8 14.4

85 64.9 32.1 96.3



#64

n-propylbenzene

Concen: 9.331 ppbv

RT: 15.71 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VL033927.D

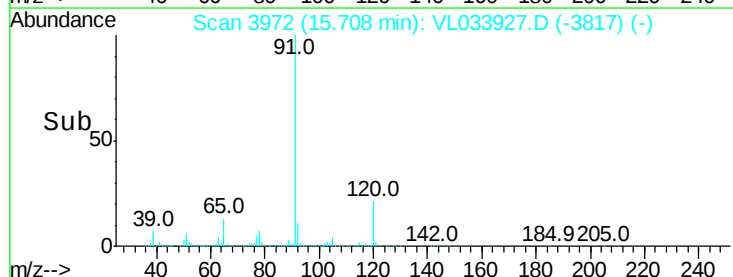
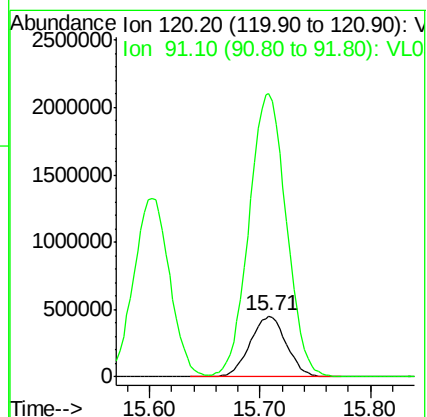
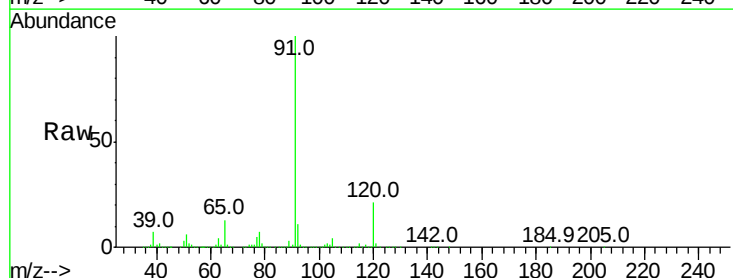
Acq: 14 Jun 2019 12:57

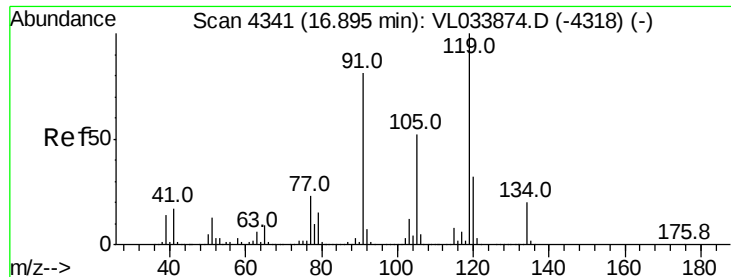
Tgt Ion:120 Resp: 1027980

Ion Ratio Lower Upper

120 100

91 480.1 387.0 580.6

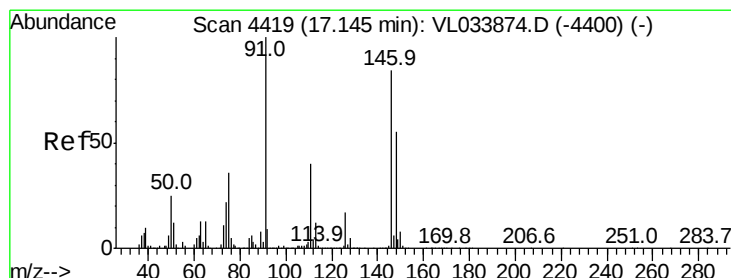
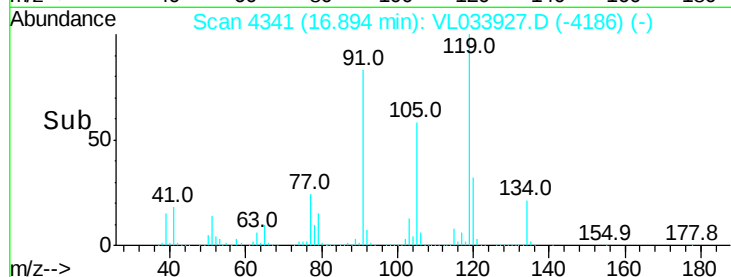
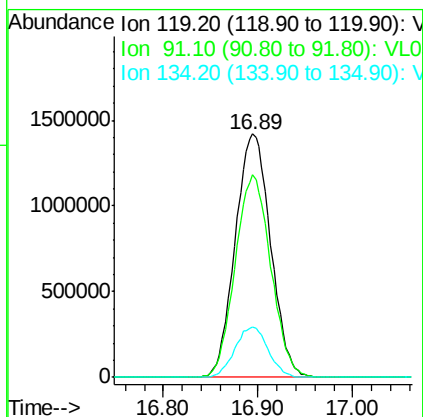
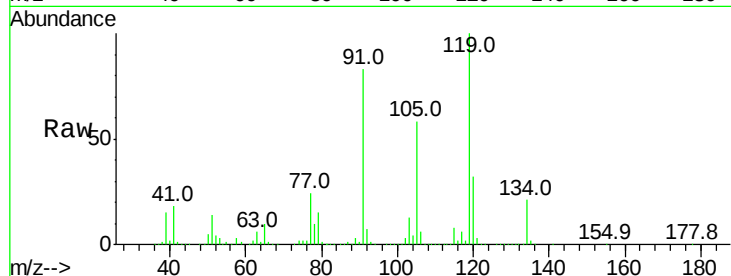




#65  
 tert-Butylbenzene  
 Concen: 9.280 ppbv  
 RT: 16.89 min Scan# 4341  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

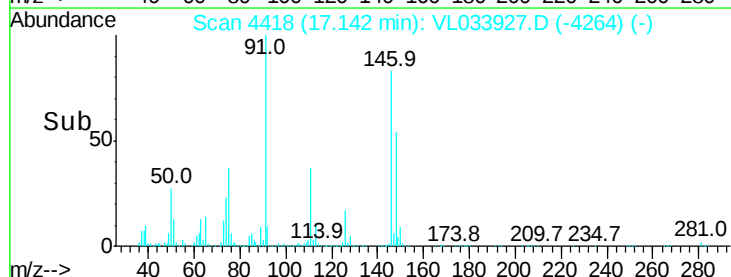
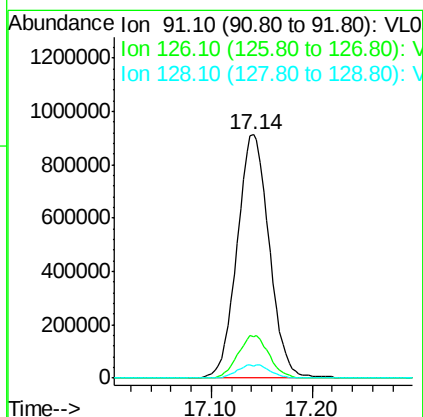
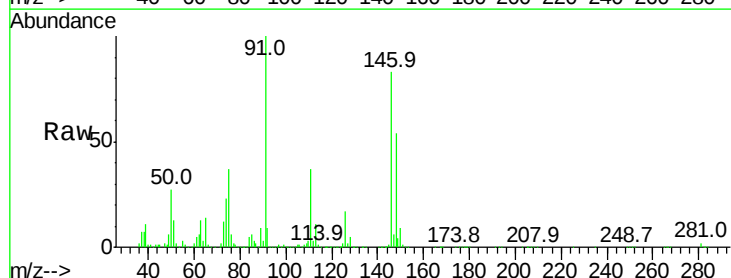
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

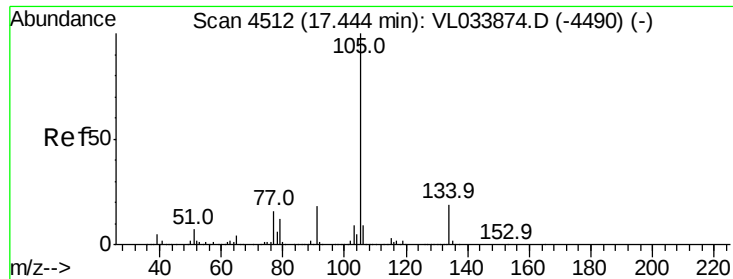
Tgt Ion: 119 Resp: 3694271  
 Ion Ratio Lower Upper  
 119 100  
 91 83.7 66.6 100.0  
 134 19.6 15.5 23.3



#66  
 Benzyl Chloride  
 Concen: 9.938 ppbv  
 RT: 17.14 min Scan# 4418  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Tgt Ion: 91 Resp: 2004745  
 Ion Ratio Lower Upper  
 91 100  
 126 17.1 13.8 20.6  
 128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 9.236 ppbv

RT: 17.44 min Scan# 4512

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

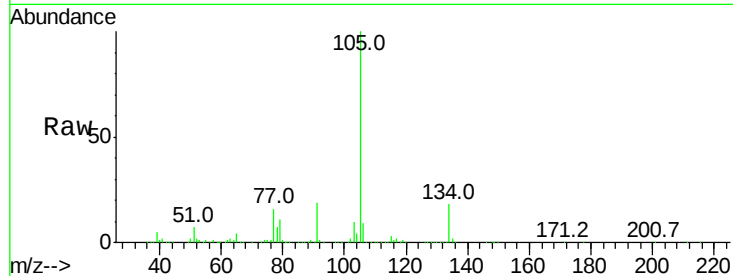
VL0613ABS01

Tgt Ion:105 Resp: 5157634

Ion Ratio Lower Upper

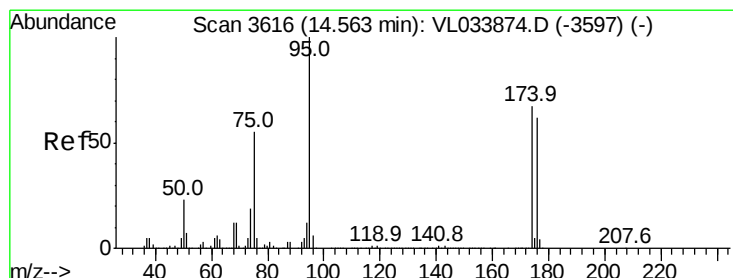
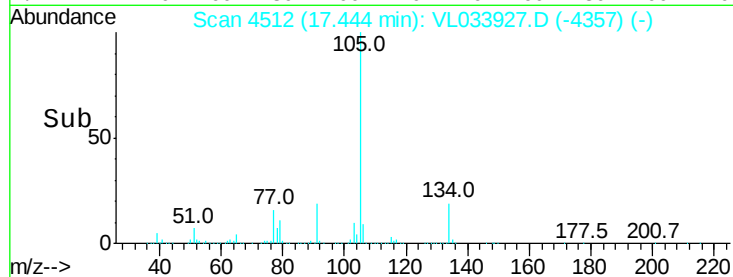
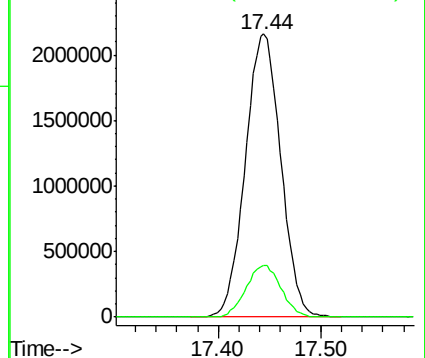
105 100

134 18.1 14.6 22.0



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: 8.513 ppbv

RT: 14.56 min Scan# 3616

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

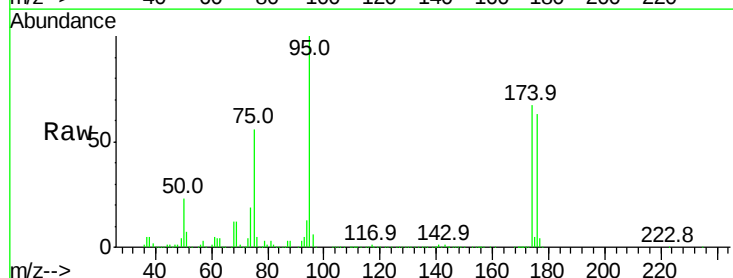
Tgt Ion: 95 Resp: 2108565

Ion Ratio Lower Upper

95 100

174 66.3 54.0 81.0

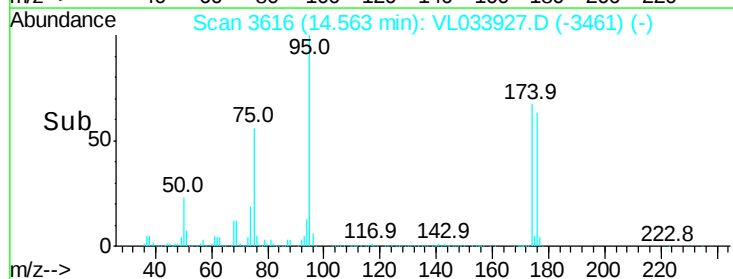
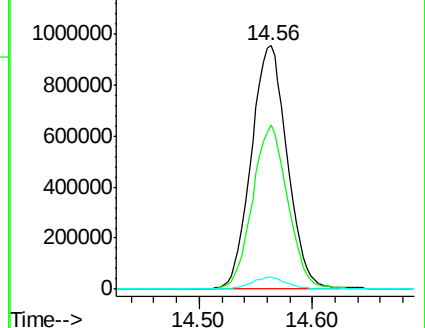
175 4.8 3.8 5.8

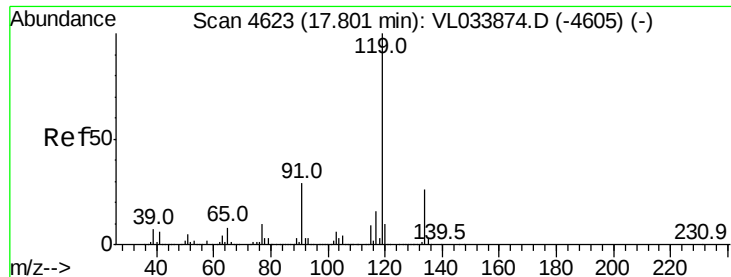


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

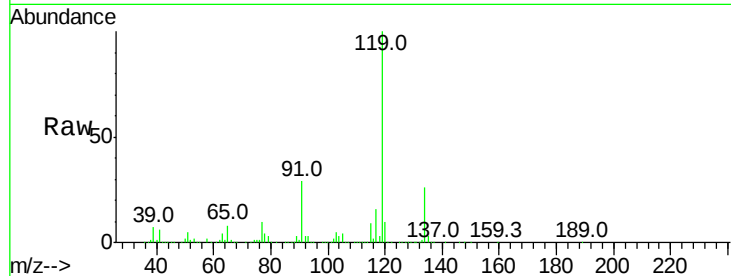




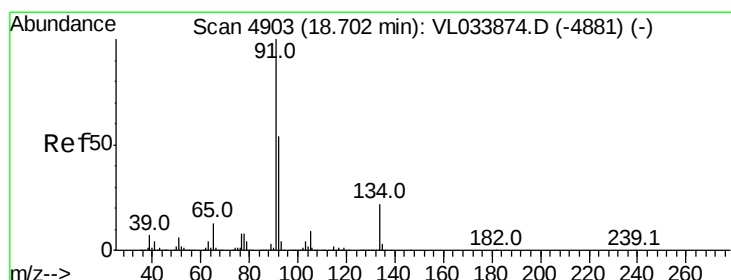
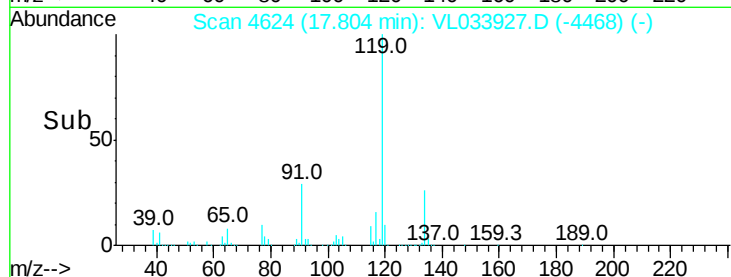
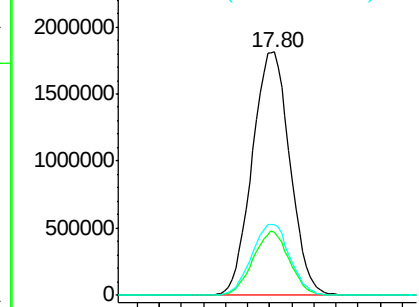
#69  
p-Isopropyltoluene  
Concen: 9.246 ppbv  
RT: 17.80 min Scan# 4624  
Delta R.T. 0.00 min  
Lab File: VL033927.D  
Acq: 14 Jun 2019 12:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0613ABS01

Tgt Ion: 119 Resp: 4296449  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.3 30.5  
91 29.7 23.8 35.6

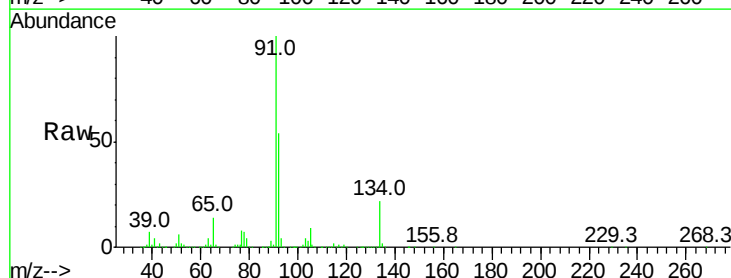


Abundance Ion 119.10 (118.80 to 119.80): V  
Ion 134.20 (133.90 to 134.90): V  
Ion 91.10 (90.80 to 91.80): V

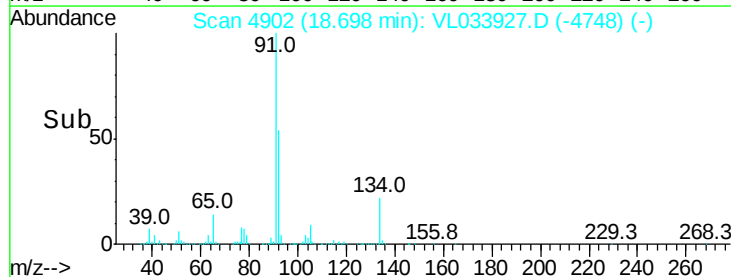
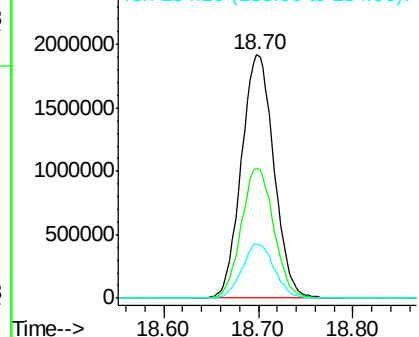


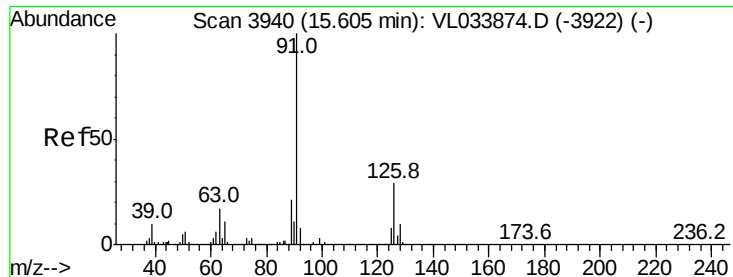
#70  
n-Butylbenzene  
Concen: 8.991 ppbv  
RT: 18.70 min Scan# 4902  
Delta R.T. -0.00 min  
Lab File: VL033927.D  
Acq: 14 Jun 2019 12:57

Tgt Ion: 91 Resp: 4575669  
Ion Ratio Lower Upper  
91 100  
92 53.2 42.5 63.7  
134 22.0 17.8 26.6



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 92.10 (91.80 to 92.80): VL0  
Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 9.533 ppbv

RT: 15.60 min Scan# 3939

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

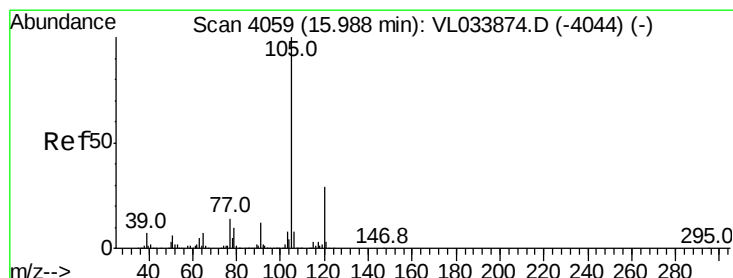
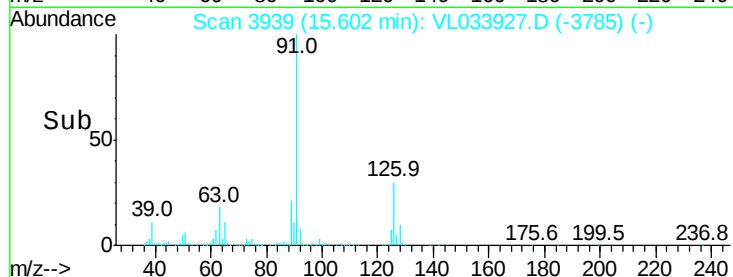
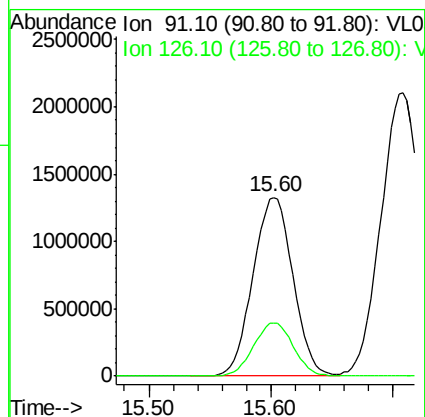
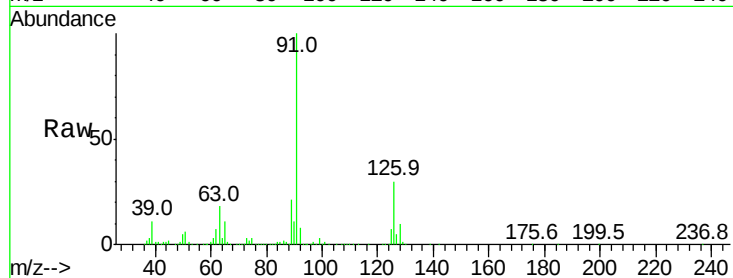
VL0613ABS01

Tgt Ion: 91 Resp: 3021415

Ion Ratio Lower Upper

91 100

126 29.7 12.0 48.2



#72

4-Ethyltoluene

Concen: 9.645 ppbv

RT: 15.99 min Scan# 4059

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Tgt Ion: 105 Resp: 3503424

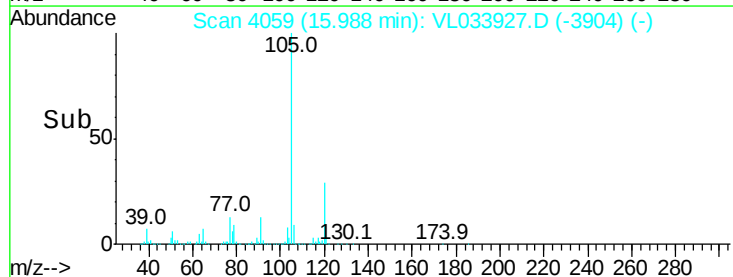
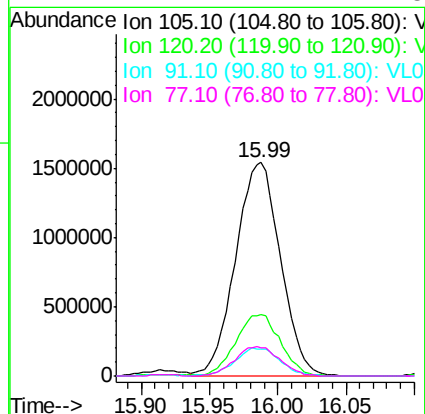
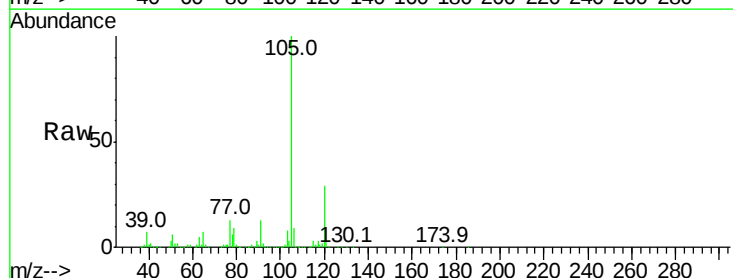
Ion Ratio Lower Upper

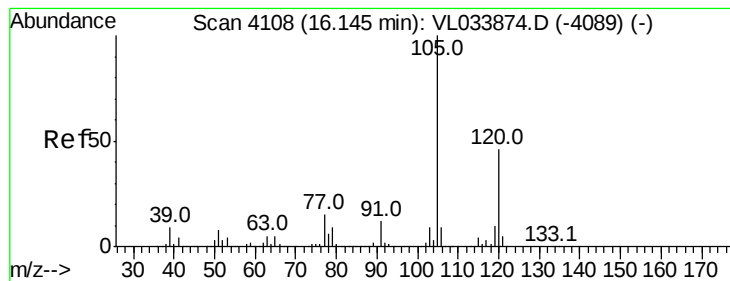
105 100

120 28.9 23.5 35.3

91 13.1 10.4 15.6

77 14.1 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 9.357 ppbv

RT: 16.14 min Scan# 4107

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

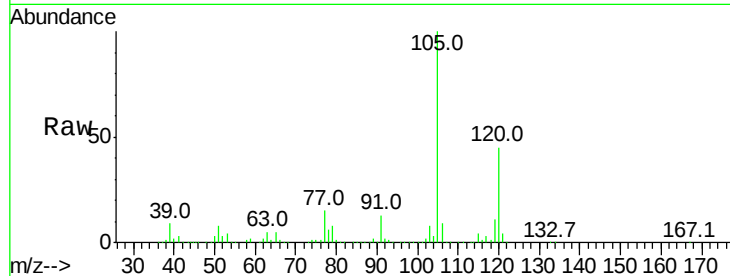
VL0613ABS01

Tgt Ion:105 Resp: 3347968

Ion Ratio Lower Upper

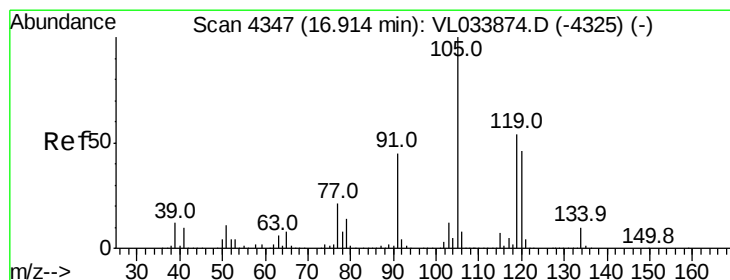
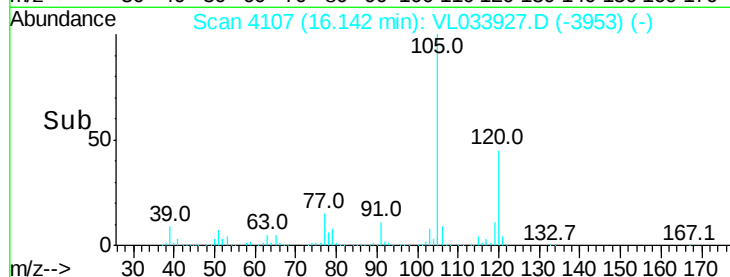
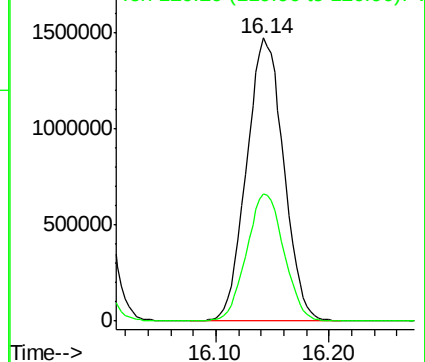
105 100

120 44.9 37.1 55.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.662 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Tgt Ion:105 Resp: 3572084

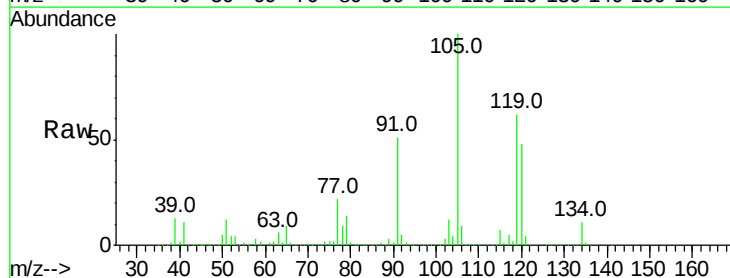
Ion Ratio Lower Upper

105 100

120 47.7 36.7 55.1

91 50.6 35.8 53.8

77 22.4 16.9 25.3

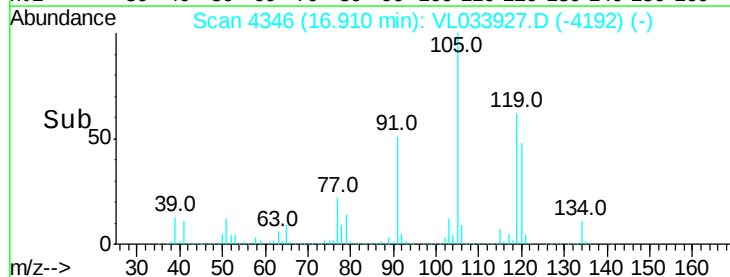
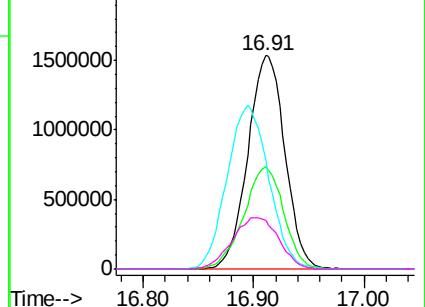


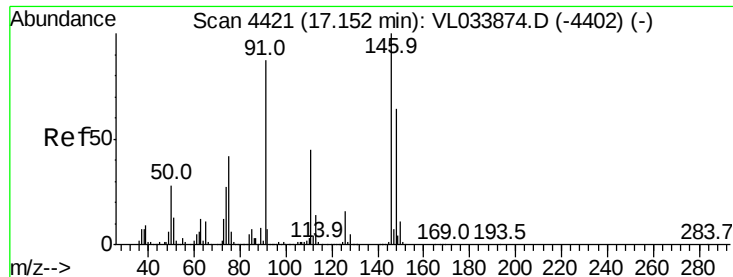
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 7.971 ppbv

RT: 17.15 min Scan# 4421

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

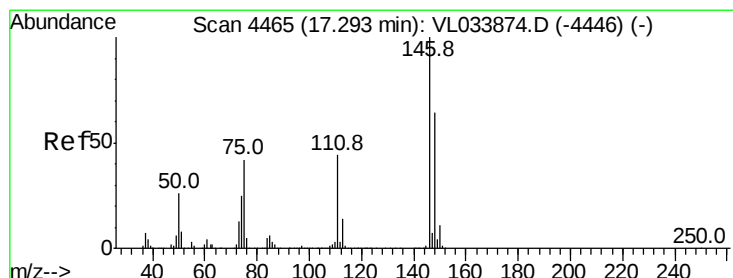
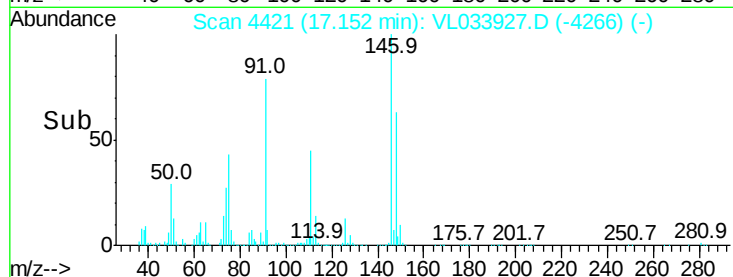
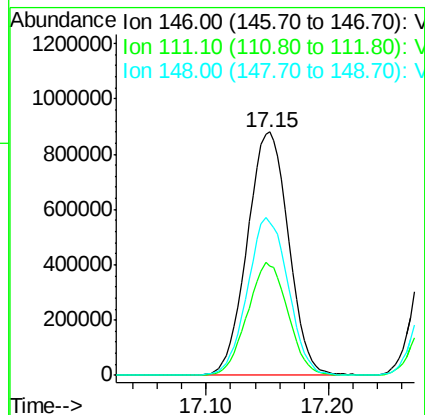
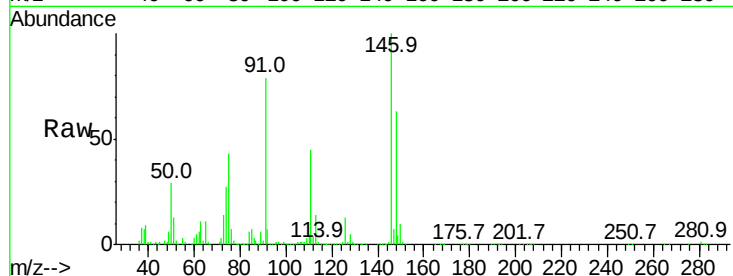
Tgt Ion:146 Resp: 2058688

Ion Ratio Lower Upper

146 100

111 45.4 22.8 68.3

148 64.1 32.2 96.6



#76

1,4-Dichlorobenzene

Concen: 8.476 ppbv

RT: 17.29 min Scan# 4465

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

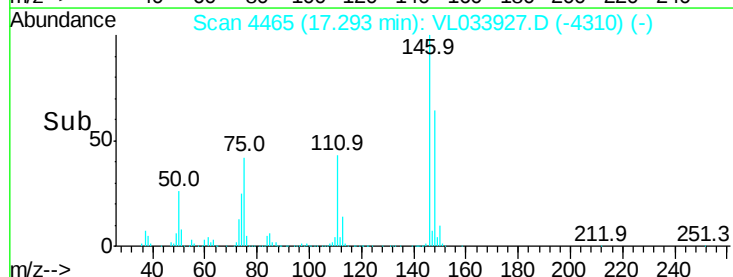
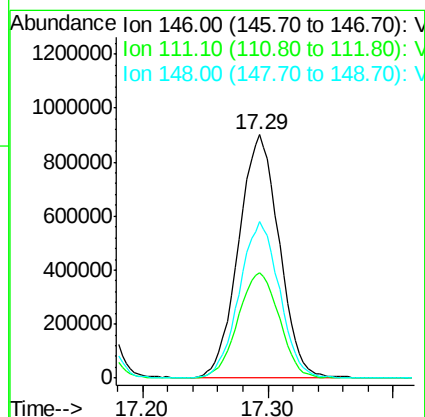
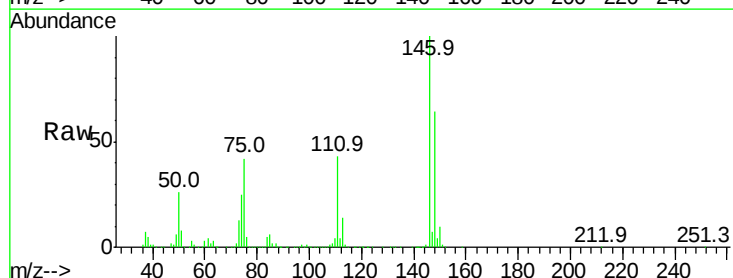
Tgt Ion:146 Resp: 2009934

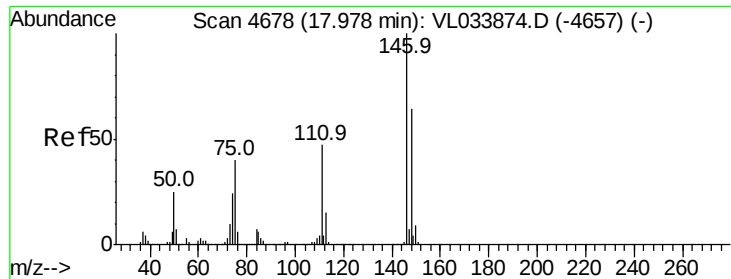
Ion Ratio Lower Upper

146 100

111 44.7 22.1 66.5

148 64.6 32.4 97.0

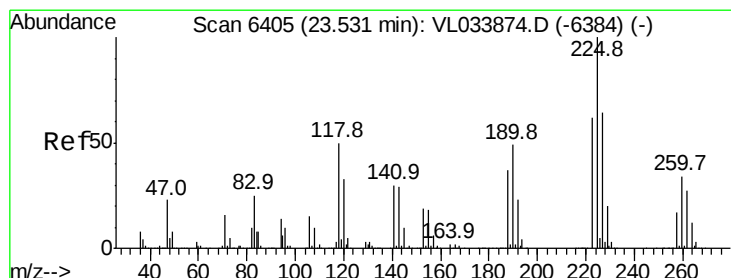
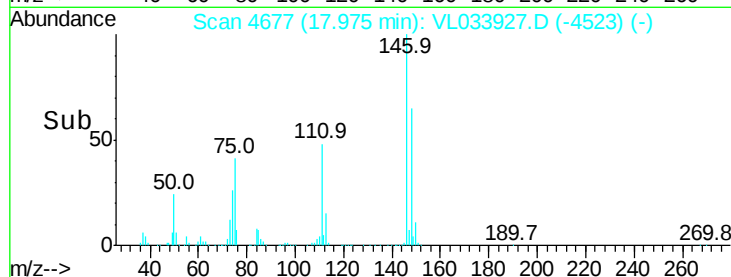
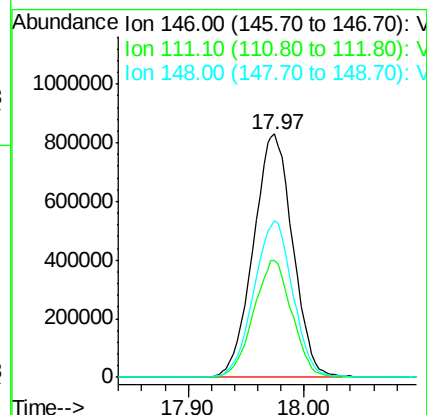
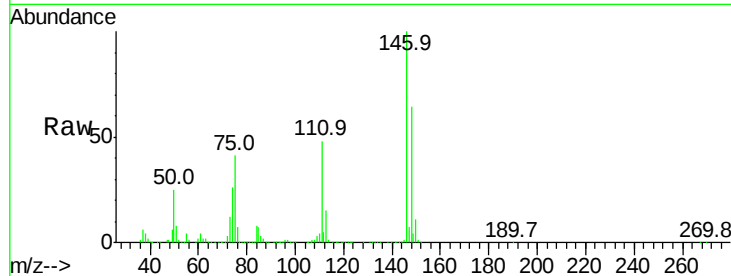




#77  
 1,2-Dichlorobenzene  
 Concen: 8.204 ppbv  
 RT: 17.97 min Scan# 4677  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

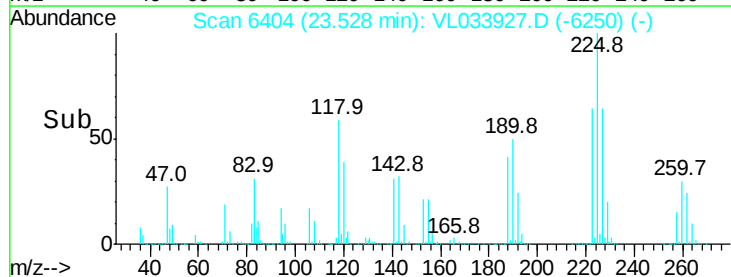
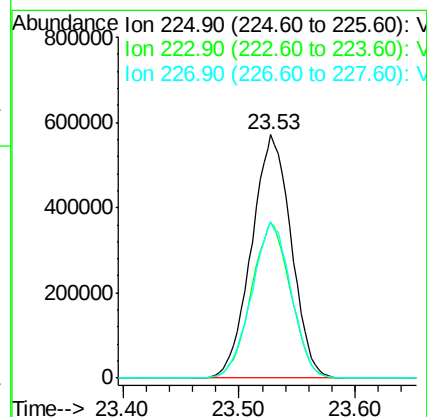
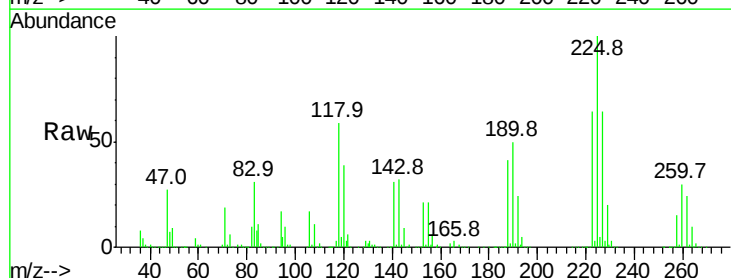
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

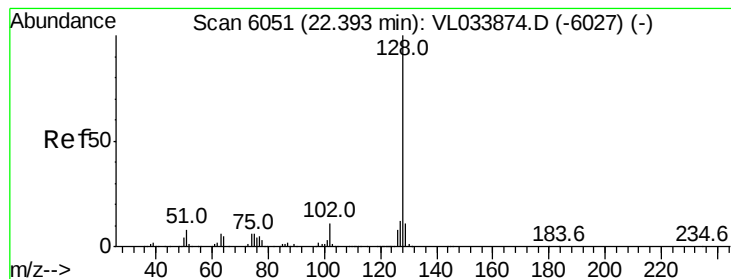
Tgt Ion:146 Resp: 1955124  
 Ion Ratio Lower Upper  
 146 100  
 111 47.0 23.4 70.0  
 148 63.7 31.8 95.4



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 7.305 ppbv  
 RT: 23.53 min Scan# 6404  
 Delta R.T. -0.00 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Tgt Ion:225 Resp: 1359747  
 Ion Ratio Lower Upper  
 225 100  
 223 63.3 50.8 76.2  
 227 63.8 51.8 77.6





#79

Naphthalene

Concen: 7.947 ppbv

RT: 22.39 min Scan# 6050

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

Instrument :

MSVOA\_L

ClientSampleId :

VL0613ABS01

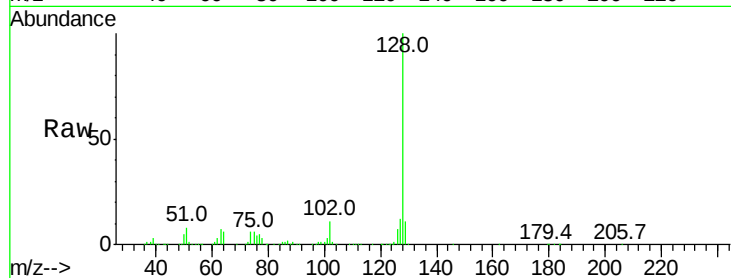
Tgt Ion:128 Resp: 2619620

Ion Ratio Lower Upper

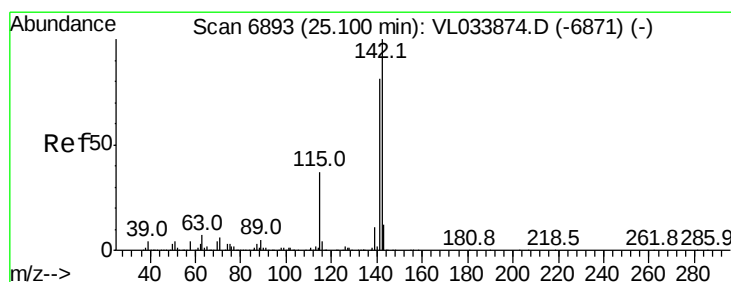
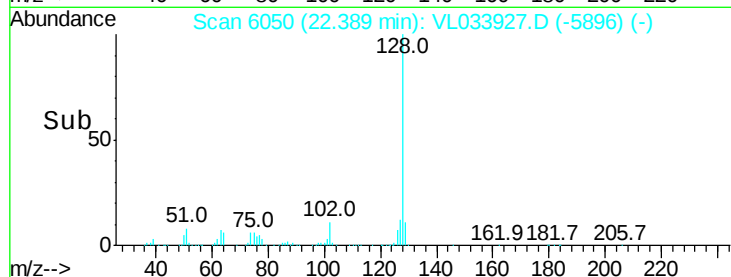
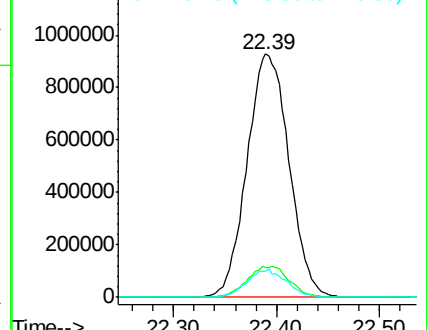
128 100

127 12.5 9.7 14.5

129 10.8 8.6 12.8



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



#80

Naphthalene, 2-methyl-

Concen: 7.507 ppbv

RT: 25.10 min Scan# 6893

Delta R.T. -0.00 min

Lab File: VL033927.D

Acq: 14 Jun 2019 12:57

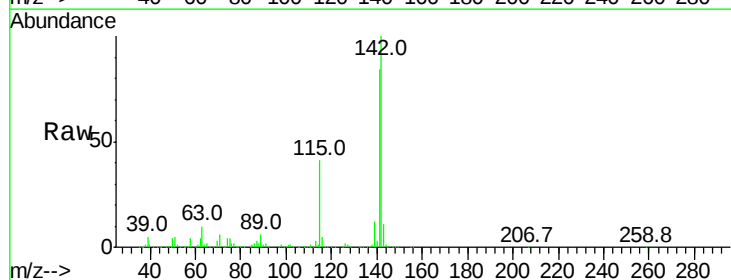
Tgt Ion:142 Resp: 987341

Ion Ratio Lower Upper

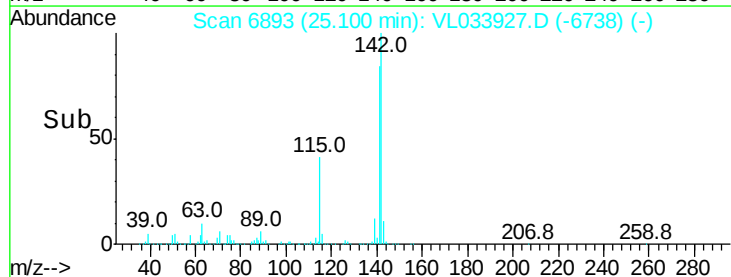
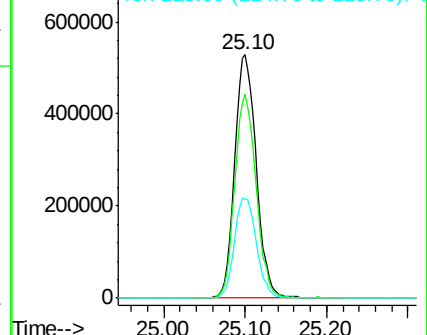
142 100

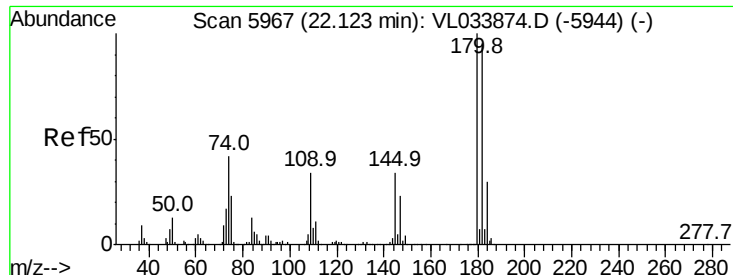
141 82.9 65.7 98.5

115 42.1 28.9 43.3



Abundance Ion 142.00 (141.70 to 142.70): V  
Ion 141.00 (140.70 to 141.70): V  
Ion 115.00 (114.70 to 115.70): V





#81  
 1,2,4-Trichlorobenzene  
 Concen: 7.397 ppbv  
 RT: 22.12 min Scan# 5965  
 Delta R.T. -0.01 min  
 Lab File: VL033927.D  
 Acq: 14 Jun 2019 12:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0613ABS01

Tgt Ion:180 Resp: 1539333  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 76.9 115.3  
 184 30.6 24.5 36.7

