

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\  
 Data File : VL026663.D  
 Acq On : 9 Jan 2016 6:25  
 Operator : SY/AP  
 Sample : H1002-19  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-5

Quant Time: Jan 12 02:04:05 2016  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 11 17:14:02 2016  
 QLast Update : Mon Jan 11 17:14:02 2016  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 6.63  | 49   | 651009   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 8.31  | 114  | 2069563  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 13.72 | 117  | 2849825  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 16.26  | 95    | 2341412  | 10.31    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 103.10% |

| Target Compounds               |      |     |        |      |        | Ovalue |
|--------------------------------|------|-----|--------|------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.63 | 85  | 89314  | 0.52 | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 3.56 | 51  | 41942  | 0.48 | ppbv   | 98     |
| 4) Chloromethane               | 3.75 | 50  | 17852  | 0.42 | ppbv # | 73     |
| 5) Vinyl Chloride              | 3.88 | 62  | 19497  | 0.38 | ppbv   | 95     |
| 6) Bromomethane                | 4.14 | 94  | 15957  | 0.44 | ppbv   | 89     |
| 7) Chloroethane                | 4.23 | 64  | 8927   | 0.43 | ppbv   | 91     |
| 8) Dichlorotetrafluoroethane   | 3.79 | 85  | 68916  | 0.51 | ppbv   | 97     |
| 9) Propene                     | 3.59 | 41  | 10951  | 0.35 | ppbv   | 98     |
| 10) Heptane                    | 9.33 | 43  | 40216  | 0.35 | ppbv   | 90     |
| 11) Trichlorofluoromethane     | 4.68 | 101 | 94510  | 0.53 | ppbv   | 97     |
| 12) 1,1,2-Trichlorotrifluoroet | 5.29 | 101 | 54029  | 0.49 | ppbv   | 97     |
| 13) Ethanol                    | 4.34 | 45  | 821    | 0.14 | ppbv # | 34     |
| 14) Bromoethene                | 4.45 | 108 | 17376  | 0.44 | ppbv   | 98     |
| 15) Acetone                    | 4.61 | 43  | 63742  | 0.60 | ppbv # | 57     |
| 16) 1,3-Butadiene              | 3.96 | 39  | 19057  | 0.45 | ppbv   | 87     |
| 18) 1,1-Dichloroethene         | 5.07 | 96  | 22657  | 0.49 | ppbv # | 78     |
| 19) Isopropyl Alcohol          | 4.78 | 45  | 14224  | 0.32 | ppbv # | 1      |
| 20) Methylene Chloride         | 5.14 | 84  | 24195  | 0.55 | ppbv # | 76     |
| 21) Allvl Chloride             | 5.21 | 41  | 26197  | 0.40 | ppbv # | 63     |
| 22) trans-1,2-Dichloroethene   | 5.75 | 96  | 21567  | 0.41 | ppbv   | 86     |
| 23) Vinyl Acetate              | 5.98 | 43  | 54698  | 0.33 | ppbv # | 96     |
| 24) 1,1-Dichloroethane         | 5.89 | 63  | 51884  | 0.44 | ppbv   | 97     |
| 25) Ethyl Acetate              | 6.67 | 43  | 47602  | 0.29 | ppbv # | 91     |
| 26) Hexane                     | 6.63 | 57  | 31238  | 0.37 | ppbv   | 95     |
| 27) Carbon Disulfide           | 5.37 | 76  | 54848  | 0.43 | ppbv # | 89     |
| 28) Methyl tert-Butyl Ether    | 5.96 | 73  | 59265  | 0.35 | ppbv   | 99     |
| 29) Chloroform                 | 6.72 | 83  | 75140  | 0.48 | ppbv   | 92     |
| 30) Cyclohexane                | 8.26 | 84  | 32007  | 0.38 | ppbv # | 27     |
| 31) cis-1,2-Dichloroethene     | 6.49 | 61  | 30244  | 0.35 | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane      | 7.57 | 97  | 76594  | 0.44 | ppbv   | 96     |
| 34) 2-Butanone                 | 6.21 | 43  | 39407  | 0.36 | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 8.13 | 117 | 73055  | 0.40 | ppbv # | 91     |
| 36) Benzene                    | 8.00 | 78  | 65958  | 0.31 | ppbv   | 95     |
| 37) 1,2-Dichloroethane         | 7.35 | 62  | 58887  | 0.40 | ppbv   | 100    |
| 38) Trichloroethene            | 9.04 | 130 | 20843  | 0.22 | ppbv   | 97     |
| 39) 1,2-Dichloropropane        | 8.81 | 63  | 29721  | 0.40 | ppbv   | 91     |
| 40) 1,4-Dioxane                | 9.16 | 88  | 855    | 0.05 | ppbv # | 1      |
| 41) Tetrahydrofuran            | 7.15 | 42  | 13621  | 0.25 | ppbv   | 90     |
| 42) Bromodichloromethane       | 9.00 | 83  | 77266  | 0.41 | ppbv   | 100    |
| 43) Methyl Methacrylate        | 9.25 | 69  | 24692  | 0.32 | ppbv   | 83     |
| 44) 2,2,4-Trimethylpentane     | 9.06 | 57  | 109302 | 0.32 | ppbv   | 91     |

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Jan 11 17:14:02 2016  
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 Response via : Initial Calibration

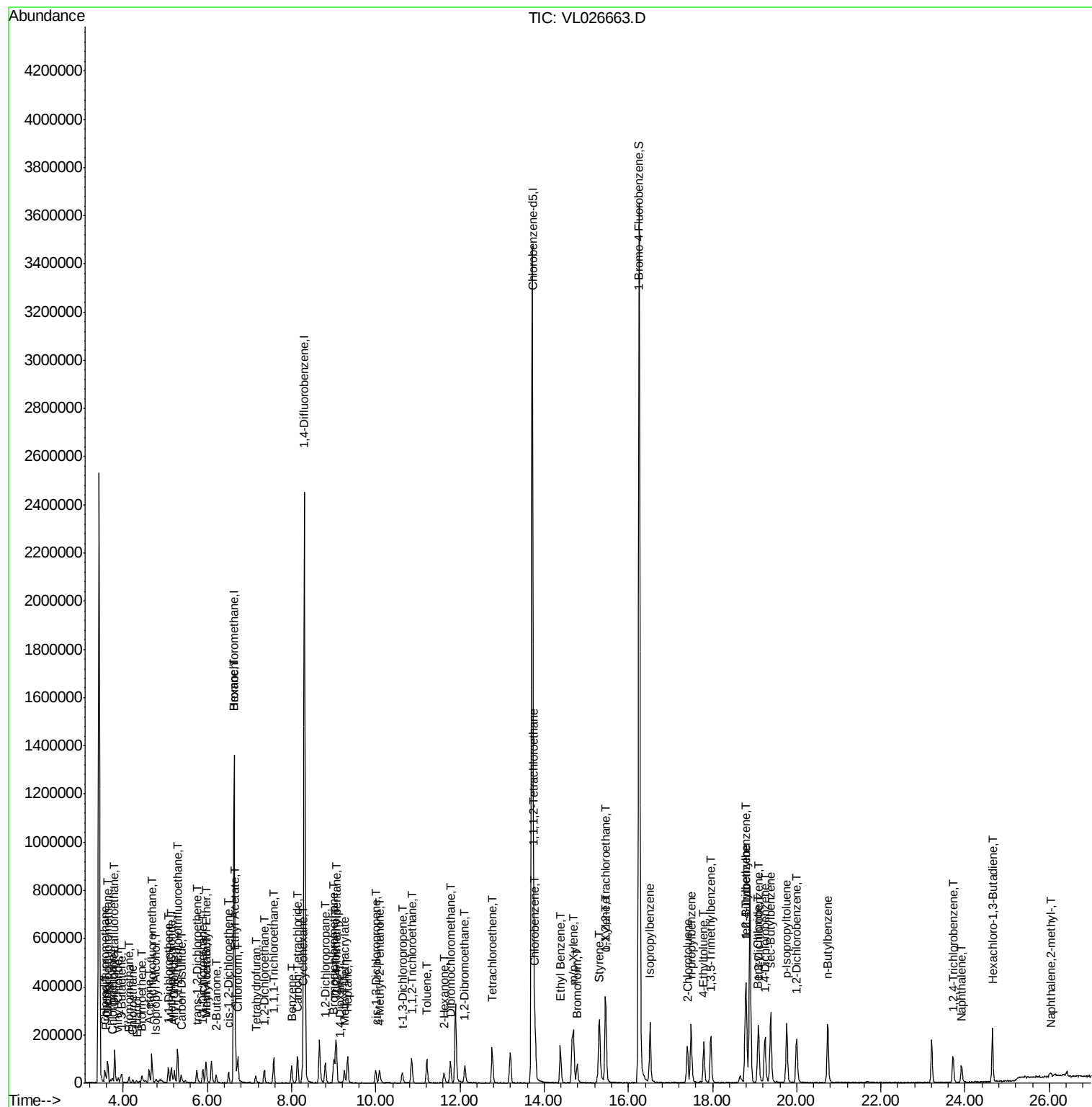
| Internal Standards            | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|------|--------|----------|
| 45) t-1,3-Dichloropropene     | 10.63 | 75   | 34185    | 0.27 | ppbv   | 93       |
| 46) cis-1,3-Dichloropropene   | 10.00 | 75   | 42009    | 0.29 | ppbv # | 88       |
| 47) 1,1,2-Trichloroethane     | 10.85 | 97   | 41762    | 0.40 | ppbv   | 97       |
| 48) Dibromochloromethane      | 11.77 | 129  | 63886    | 0.41 | ppbv   | 99       |
| 49) Bromoform                 | 14.79 | 173  | 54148    | 0.42 | ppbv   | 97       |
| 50) 4-Methyl-2-Pentanone      | 10.09 | 43   | 43060    | 0.28 | ppbv   | 95       |
| 51) 2-Hexanone                | 11.62 | 43   | 33918    | 0.24 | ppbv # | 99       |
| 52) Tetrachloroethene         | 12.76 | 164  | 43753    | 0.41 | ppbv   | 87       |
| 53) Toluene                   | 11.21 | 91   | 95611    | 0.32 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 12.11 | 107  | 69616    | 0.42 | ppbv   | 92       |
| 56) 1,1,1,2-Tetrachloroethane | 13.76 | 131  | 57386    | 0.44 | ppbv # | 1        |
| 57) Chlorobenzene             | 13.78 | 112  | 134474   | 0.46 | ppbv   | 92       |
| 58) Ethyl Benzene             | 14.38 | 91   | 162857   | 0.32 | ppbv # | 89       |
| 59) m/p-Xylene                | 14.69 | 91   | 317002   | 0.76 | ppbv   | 98       |
| 60) o-Xylene                  | 15.46 | 91   | 188462   | 0.42 | ppbv   | 95       |
| 61) Styrene                   | 15.29 | 104  | 53372    | 0.30 | ppbv   | 99       |
| 62) Isopropylbenzene          | 16.52 | 105  | 238216   | 0.40 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 15.46 | 83   | 149454   | 0.44 | ppbv   | 98       |
| 64) n-propylbenzene           | 17.49 | 120  | 63046    | 0.39 | ppbv   | 92       |
| 65) tert-Butylbenzene         | 18.79 | 119  | 227574   | 0.41 | ppbv   | 94       |
| 66) Benzyl Chloride           | 19.07 | 91   | 58425    | 0.30 | ppbv # | 98       |
| 67) sec-Butylbenzene          | 19.38 | 105  | 330269   | 0.40 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 19.76 | 119  | 222050   | 0.36 | ppbv   | 99       |
| 70) n-Butylbenzene            | 20.74 | 91   | 223683   | 0.34 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 17.40 | 91   | 152399   | 0.33 | ppbv   | 95       |
| 72) 4-Ethyltoluene            | 17.79 | 105  | 169921   | 0.34 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 17.96 | 105  | 176100   | 0.37 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 18.80 | 105  | 219456   | 0.43 | ppbv # | 86       |
| 75) 1,3-Dichlorobenzene       | 19.08 | 146  | 143803   | 0.46 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 19.25 | 146  | 138636   | 0.43 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 20.00 | 146  | 132851   | 0.42 | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 24.64 | 225  | 54833    | 0.42 | ppbv   | 98       |
| 79) Naphthalene               | 23.91 | 128  | 86098    | 0.25 | ppbv # | 96       |
| 80) Naphthalene,2-methyl-     | 26.03 | 142  | 16217    | 0.30 | ppbv # | 80       |
| 81) 1,2,4-Trichlorobenzene    | 23.71 | 180  | 48687    | 0.31 | ppbv   | 94       |

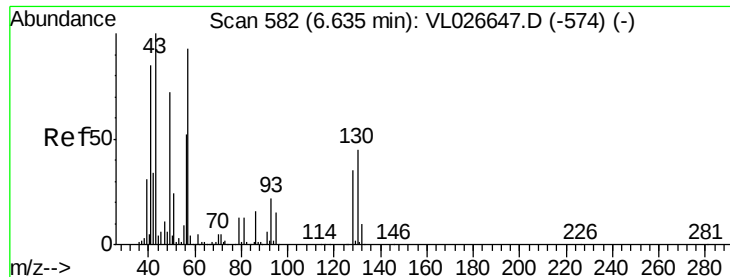
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jan 11 17:14:02 2016  
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 581

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

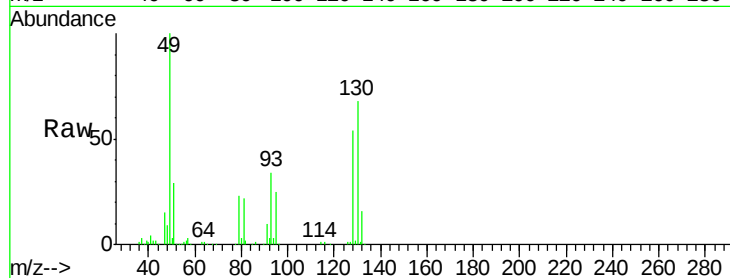
Tot Ion: 49 Resp: 651009

Ion Ratio Lower Upper

49 100

128 58.7 25.9 77.7

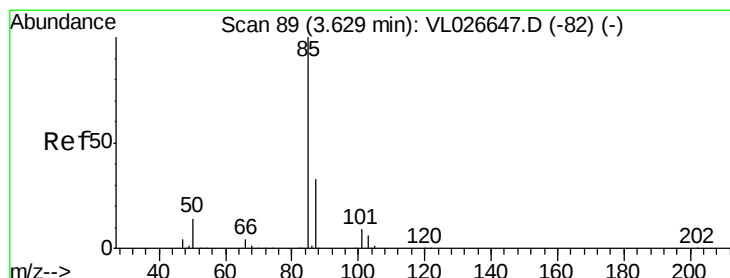
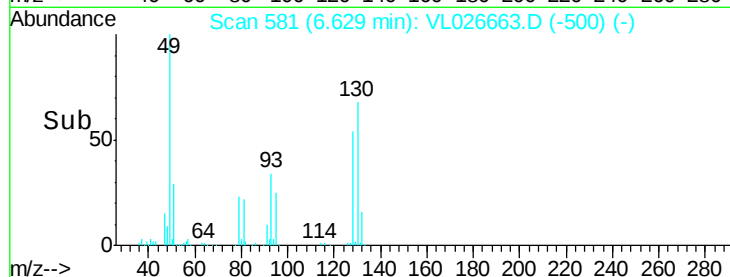
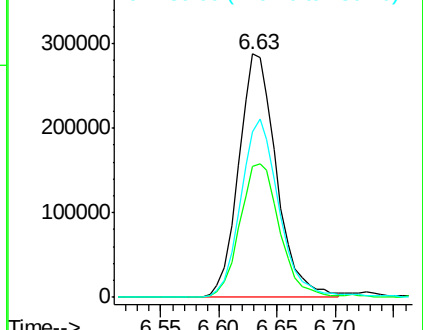
130 75.1 33.6 100.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.52 ppbv

RT: 3.63 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL026663.D

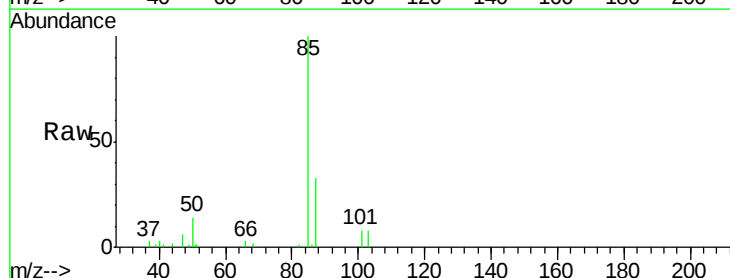
Acq: 9 Jan 2016 6:25

Tgt Ion: 85 Resp: 89314

Ion Ratio Lower Upper

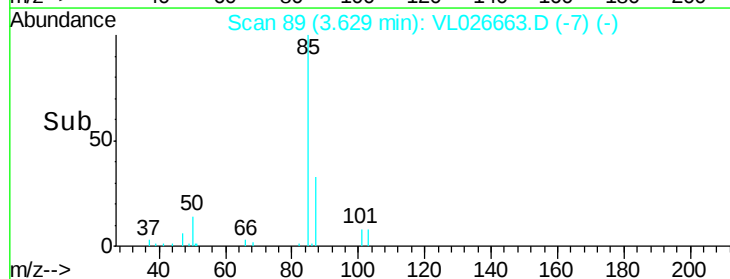
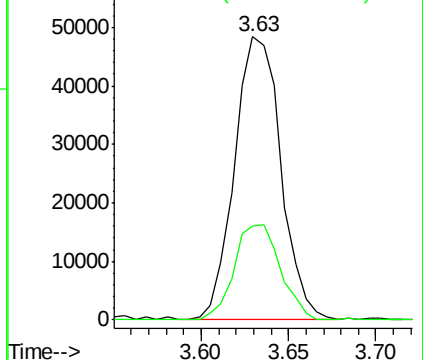
85 100

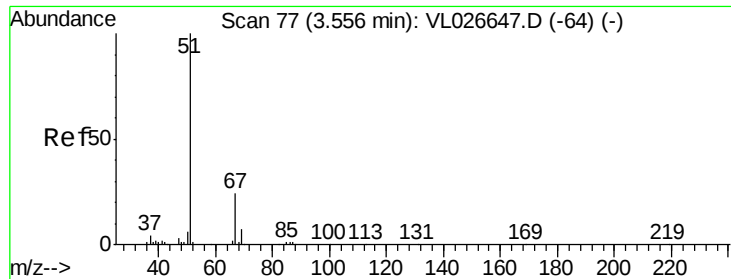
87 33.4 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.48 ppbv

RT: 3.56 min Scan# 78

Delta R.T. 0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

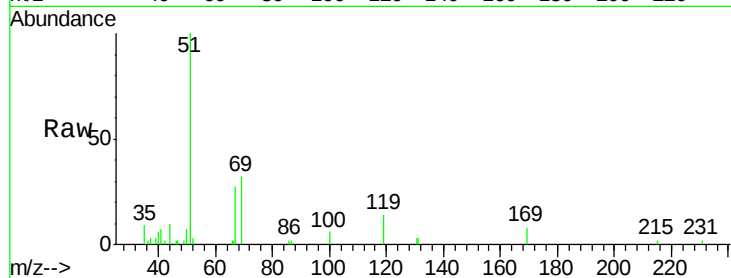
MDL-AIR-5

Tot Ion: 51 Resp: 41942

Ion Ratio Lower Upper

51 100

67 24.4 18.6 28.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

25000

20000

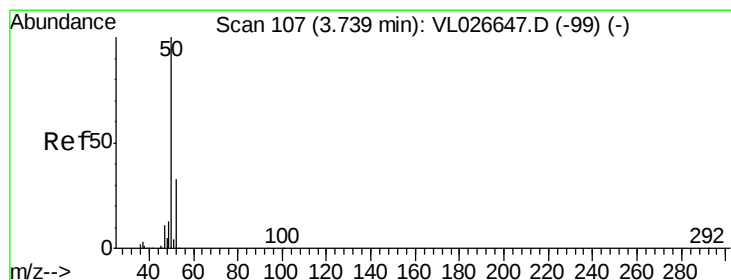
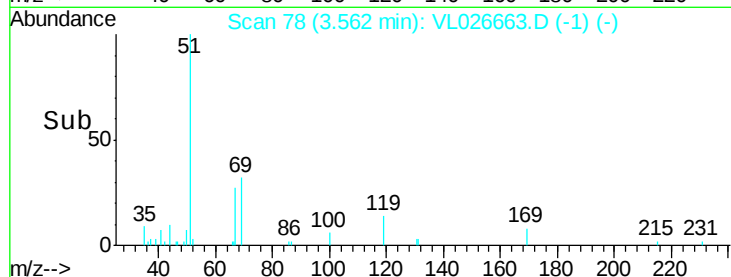
15000

10000

5000

0

Time-->



#4

Chloromethane

Concen: 0.42 ppbv

RT: 3.75 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL026663.D

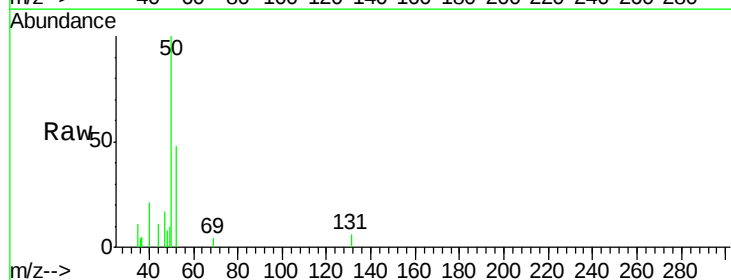
Acq: 9 Jan 2016 6:25

Tgt Ion: 50 Resp: 17852

Ion Ratio Lower Upper

50 100

52 48.5 26.7 40.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

8000

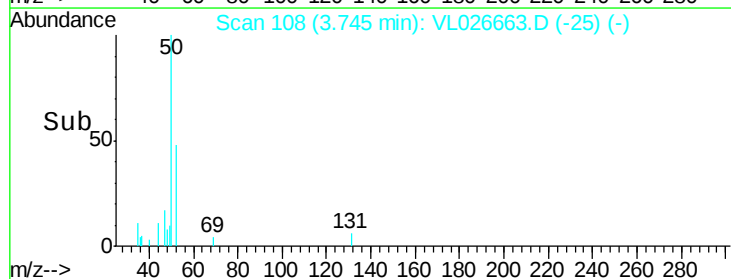
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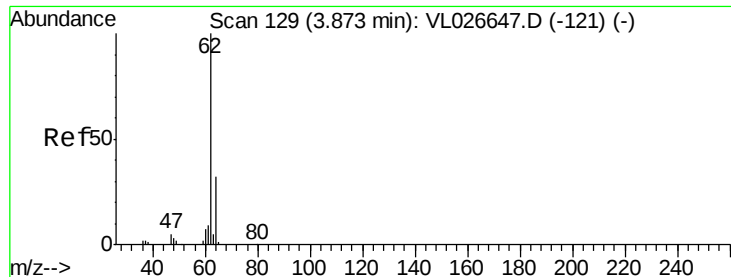
4000

2000

0

Time-->





#5

Vinyl Chloride

Concen: 0.38 ppbv

RT: 3.88 min Scan# 130

Delta R.T. 0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

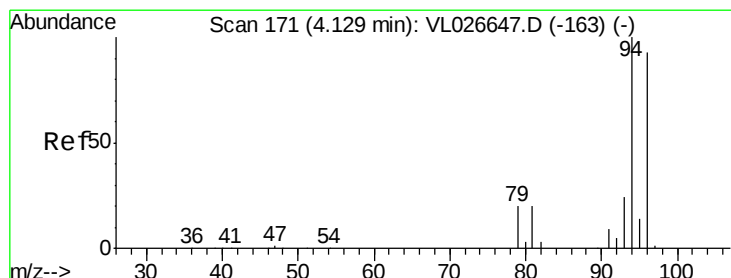
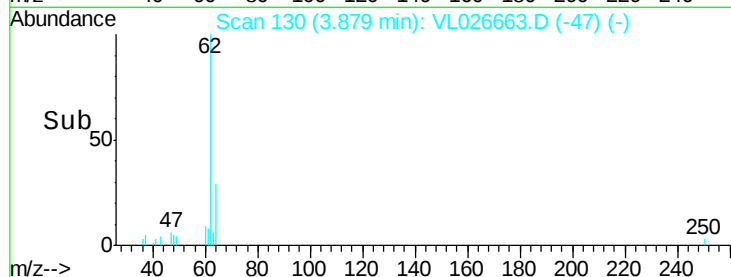
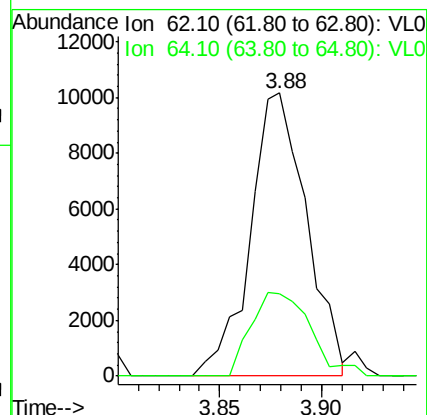
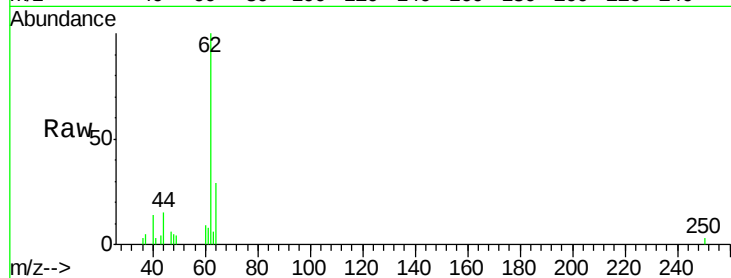
MDL-AIR-5

Tot Ion: 62 Resp: 19497

Ion Ratio Lower Upper

62 100

64 29.0 25.6 38.4



#6

Bromomethane

Concen: 0.44 ppbv

RT: 4.14 min Scan# 172

Delta R.T. 0.01 min

Lab File: VL026663.D

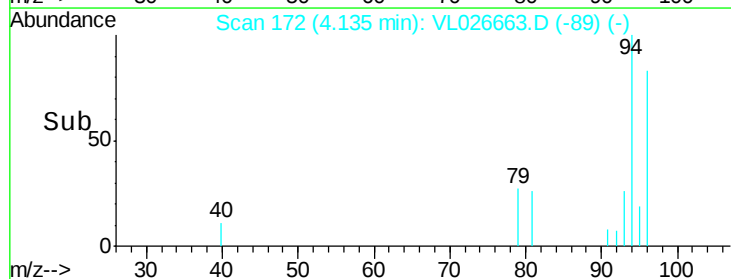
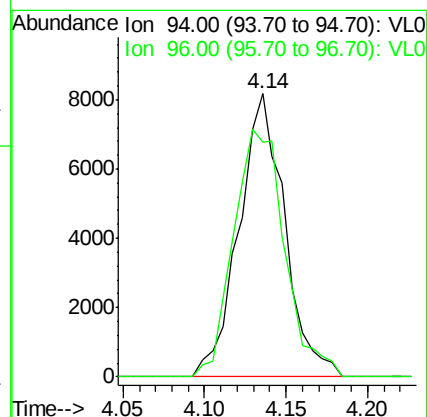
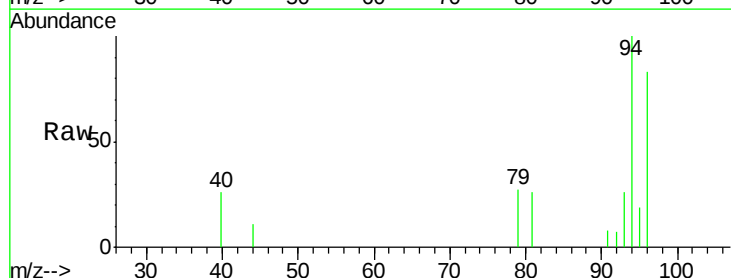
Acq: 9 Jan 2016 6:25

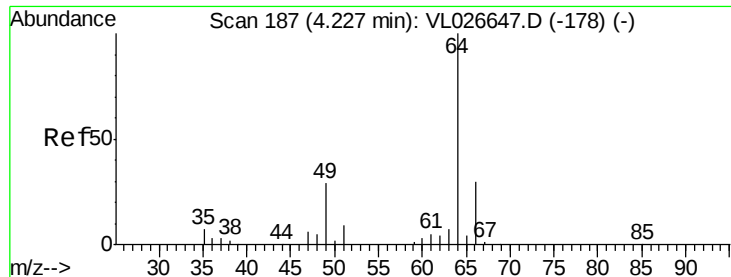
Tgt Ion: 94 Resp: 15957

Ion Ratio Lower Upper

94 100

96 82.8 74.6 112.0





#7

Chloroethane

Concen: 0.43 ppbv

RT: 4.23 min Scan# 188

Delta R.T. 0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

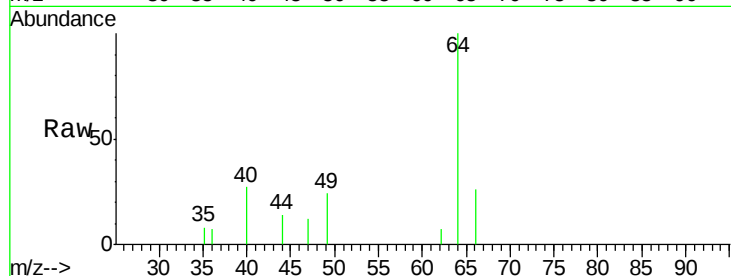
MDL-AIR-5

Tot Ion: 64 Resp: 8927

Ion Ratio Lower Upper

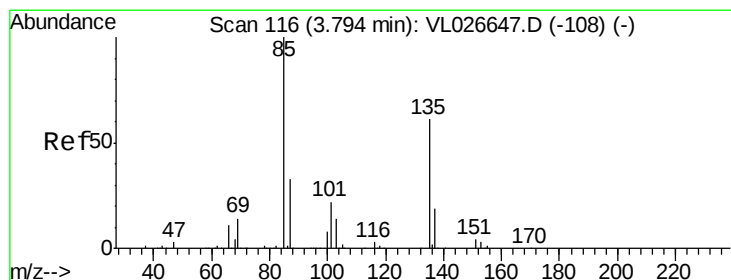
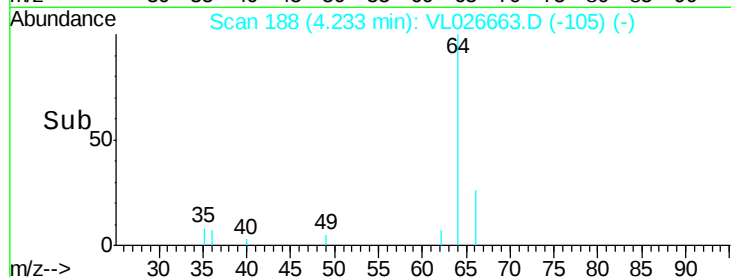
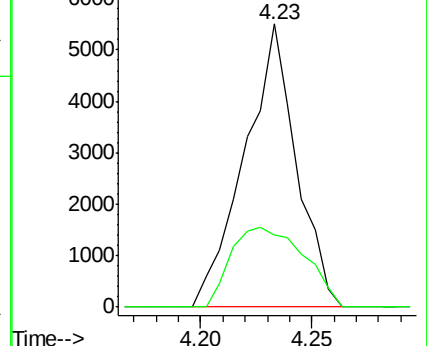
64 100

66 25.7 24.3 36.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.51 ppbv

RT: 3.79 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL026663.D

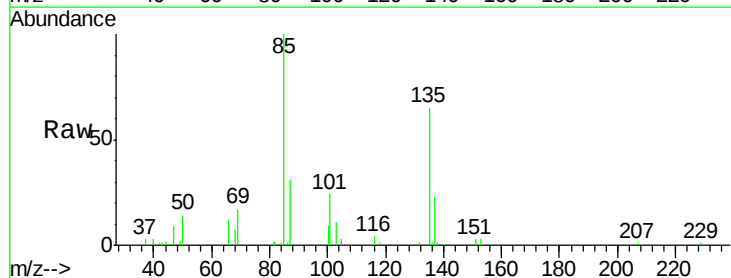
Acq: 9 Jan 2016 6:25

Tgt Ion: 85 Resp: 68916

Ion Ratio Lower Upper

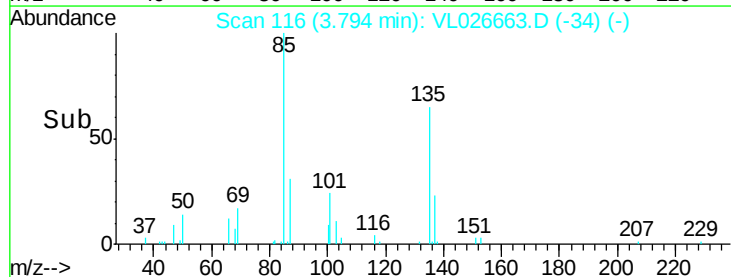
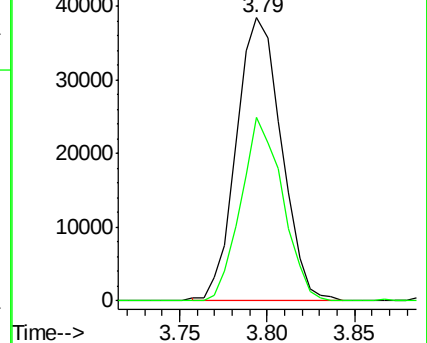
85 100

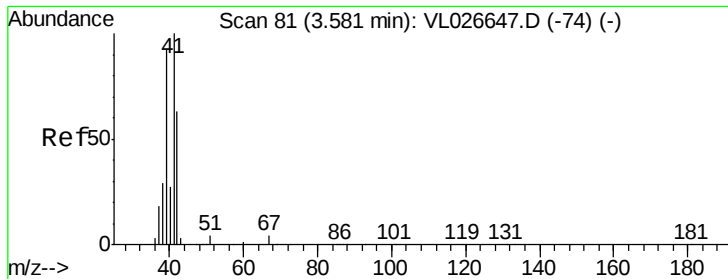
135 59.8 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.35 ppbv

RT: 3.59 min Scan# 82

Delta R.T. 0.01 min

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Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

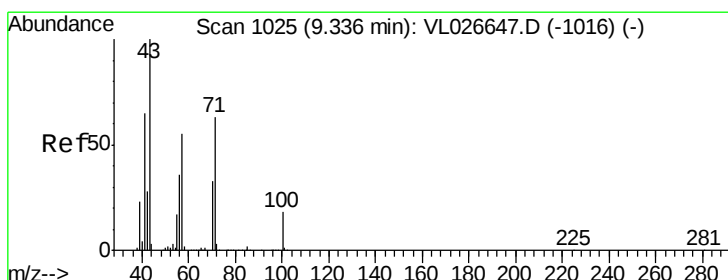
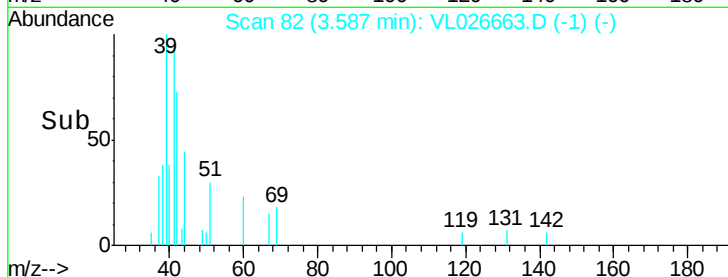
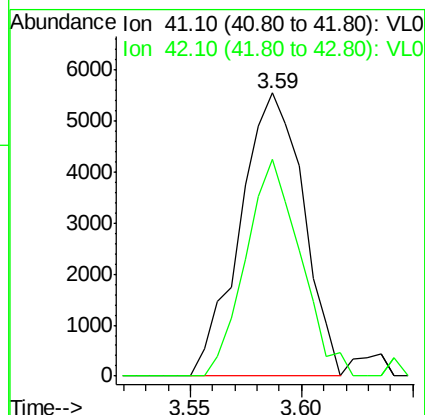
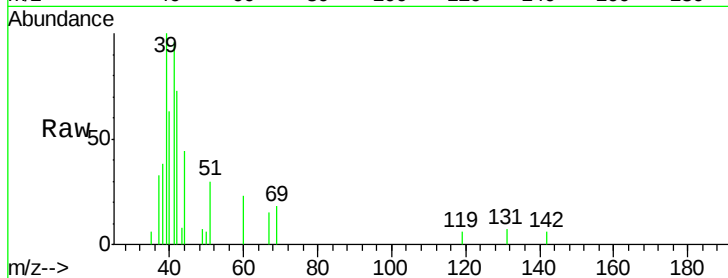
MDL-AIR-5

Tot Ion: 41 Resp: 10951

Ion Ratio Lower Upper

41 100

42 68.4 53.6 80.4



#10

Heptane

Concen: 0.35 ppbv

RT: 9.33 min Scan# 1024

Delta R.T. -0.01 min

Lab File: VL026663.D

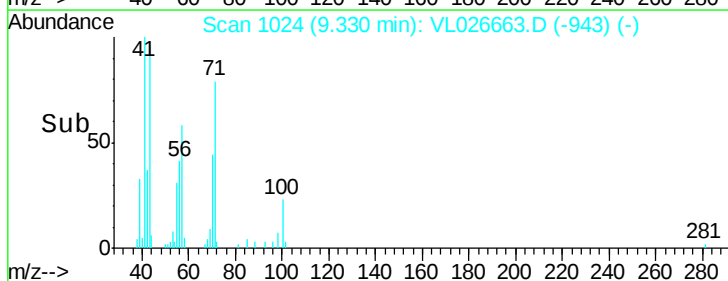
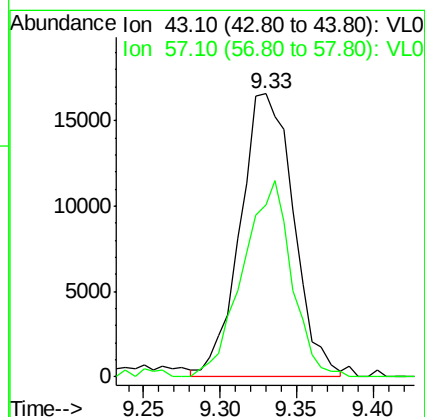
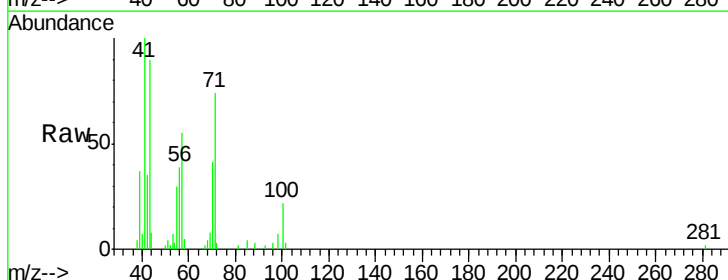
Acq: 9 Jan 2016 6:25

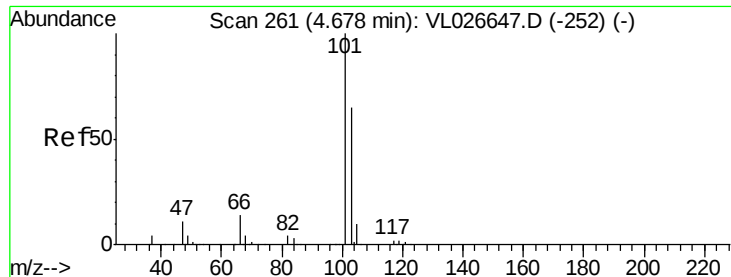
Tgt Ion: 43 Resp: 40216

Ion Ratio Lower Upper

43 100

57 64.8 45.8 68.6

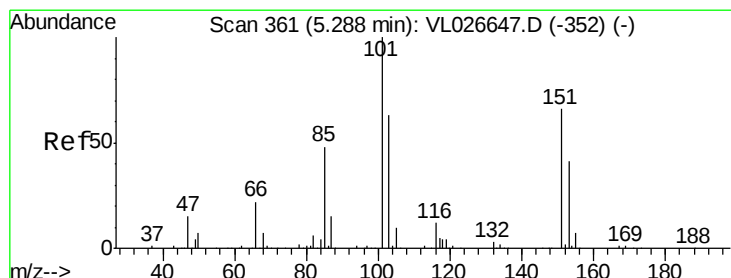
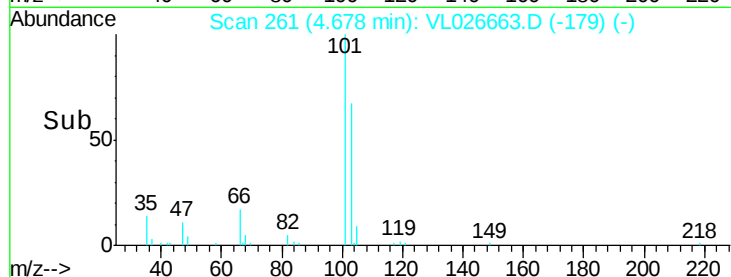
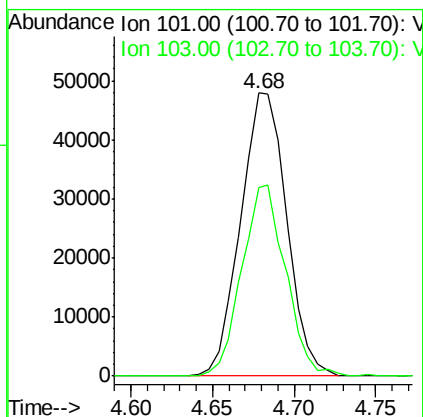
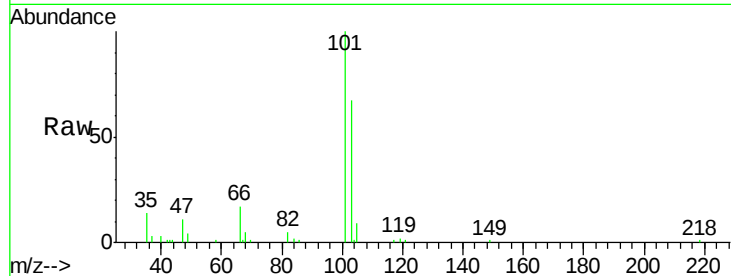




#11  
 Trichlorofluoromethane  
 Concen: 0.53 ppbv  
 RT: 4.68 min Scan# 261  
 Delta R.T. 0.00 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

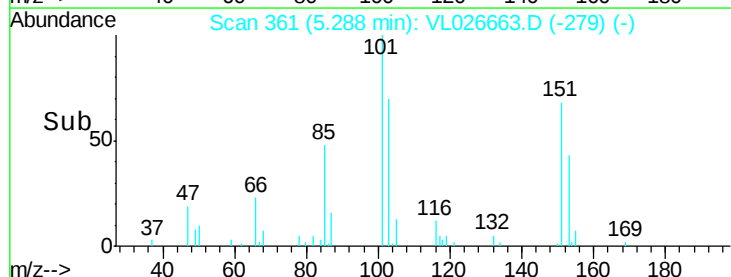
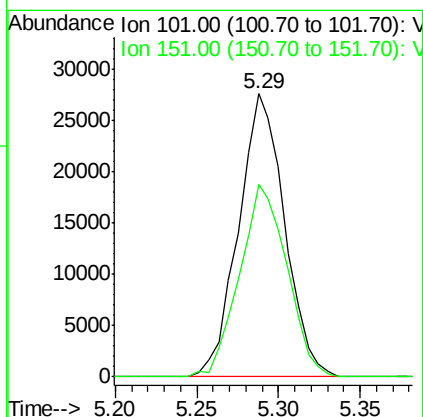
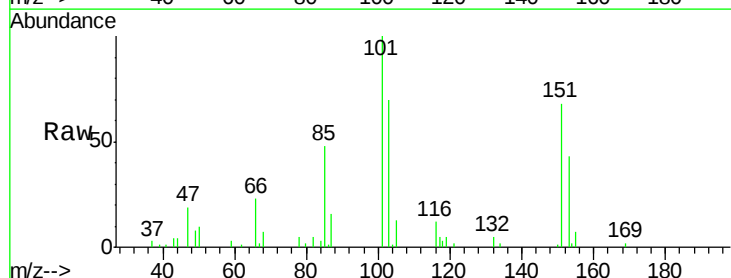
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-5

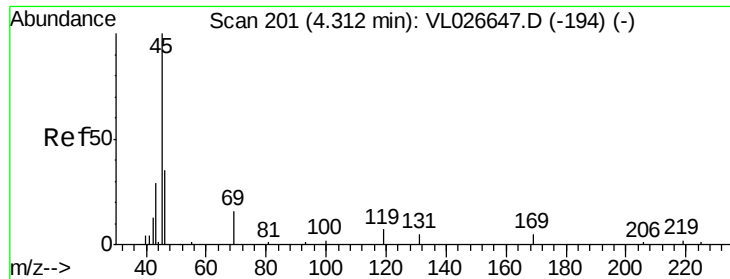
Tot Ion:101 Resp: 94510  
 Ion Ratio Lower Upper  
 101 100  
 103 66.6 51.7 77.5



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.49 ppbv  
 RT: 5.29 min Scan# 361  
 Delta R.T. 0.00 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

Tgt Ion:101 Resp: 54029  
 Ion Ratio Lower Upper  
 101 100  
 151 69.8 54.2 81.4





#13

Ethanol

Concen: 0.14 ppbv

RT: 4.34 min Scan# 205

Delta R.T. 0.02 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

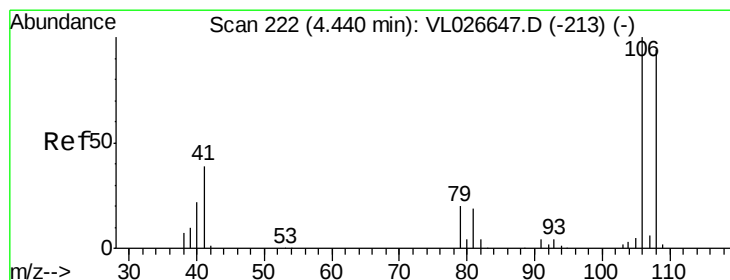
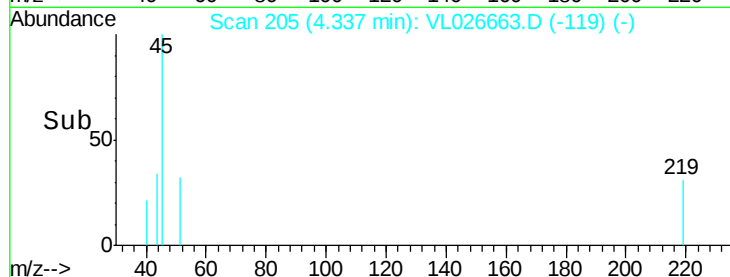
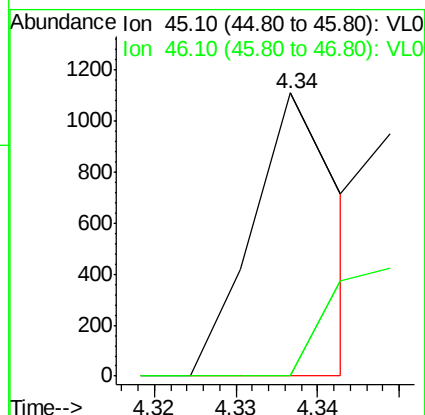
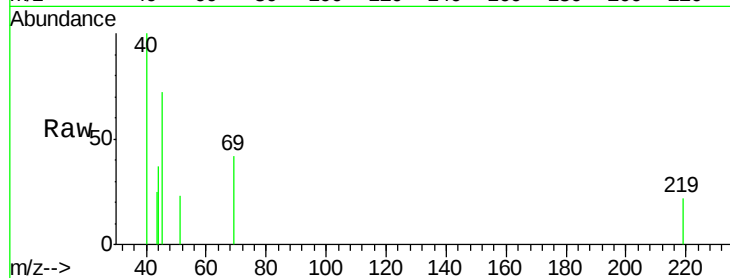
MDL-AIR-5

Tot Ion: 45 Resp: 821

Ion Ratio Lower Upper

45 100

46 0.0 16.7 66.7#



#14

Bromoethene

Concen: 0.44 ppbv

RT: 4.45 min Scan# 223

Delta R.T. 0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

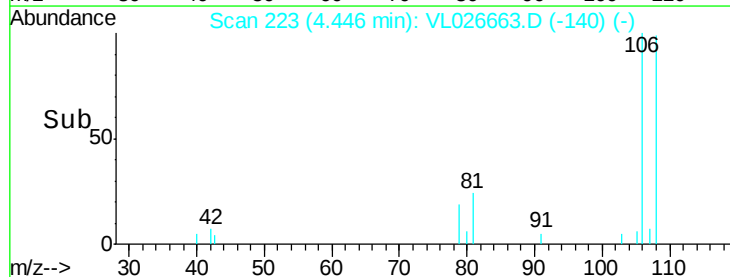
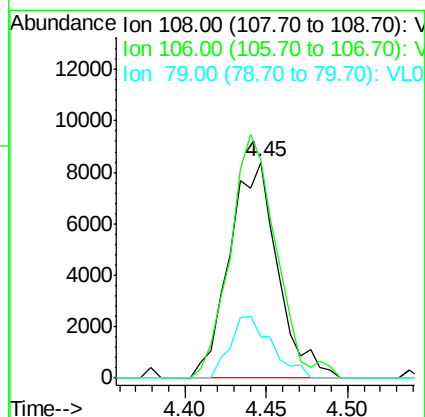
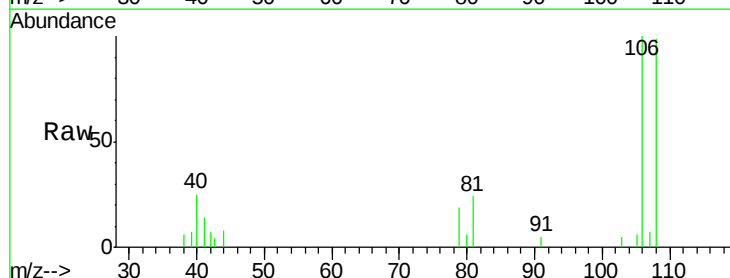
Tgt Ion: 108 Resp: 17376

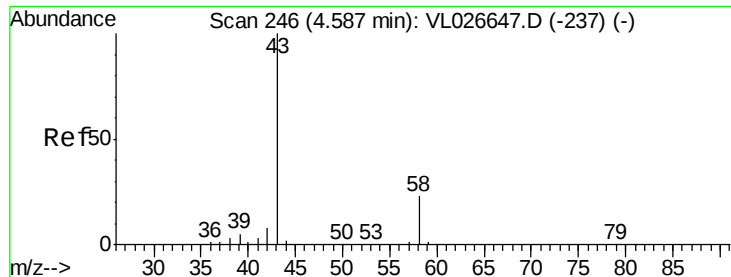
Ion Ratio Lower Upper

108 100

106 106.9 86.4 129.6

79 24.4 17.2 25.8





#15

Acetone

Concen: 0.60 ppbv

RT: 4.61 min Scan# 250

Delta R.T. 0.02 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

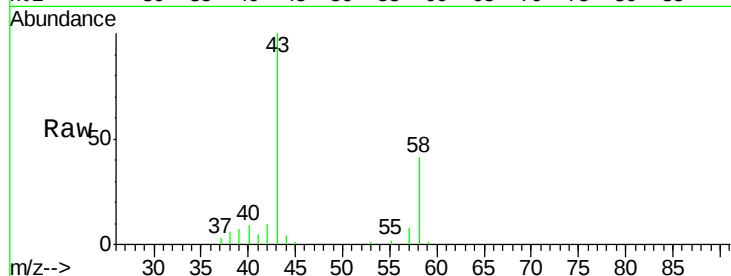
MDL-AIR-5

Tot Ion: 43 Resp: 63742

Ion Ratio Lower Upper

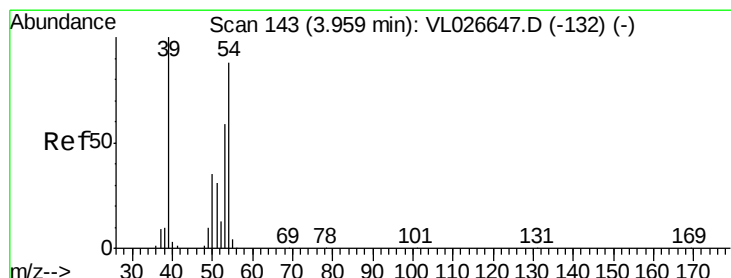
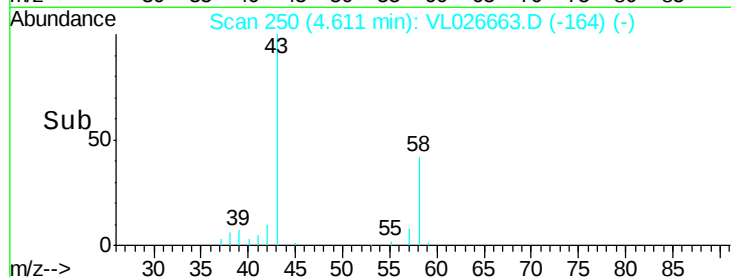
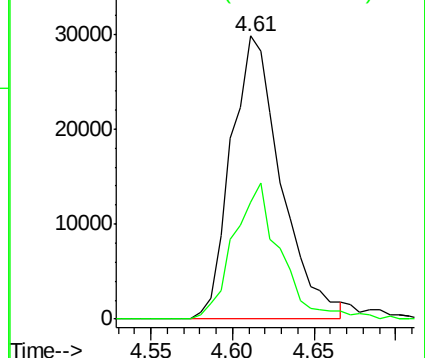
43 100

58 45.2 19.2 28.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.45 ppbv

RT: 3.96 min Scan# 144

Delta R.T. 0.01 min

Lab File: VL026663.D

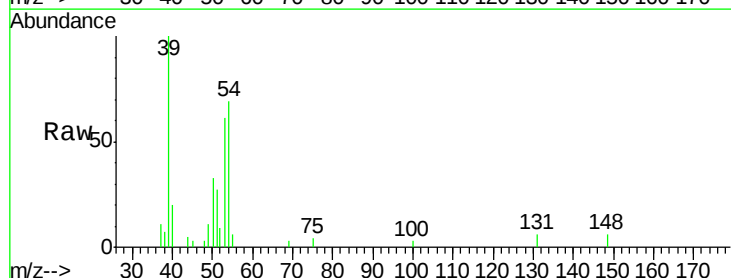
Acq: 9 Jan 2016 6:25

Tgt Ion: 39 Resp: 19057

Ion Ratio Lower Upper

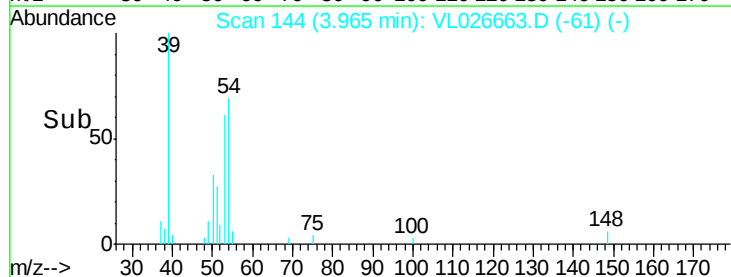
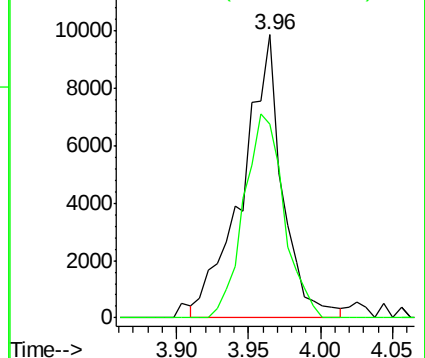
39 100

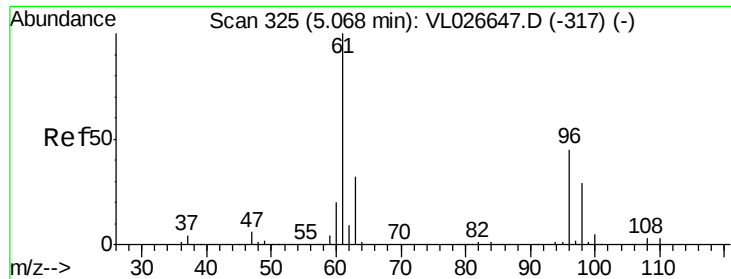
54 71.6 66.6 100.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

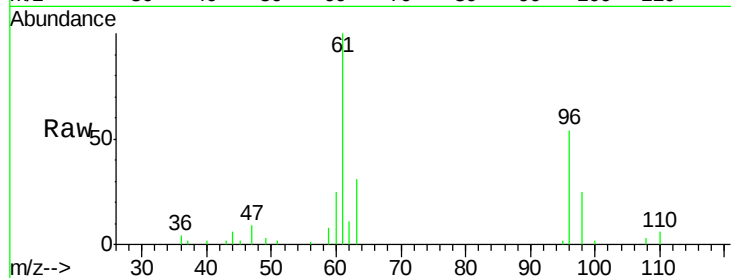




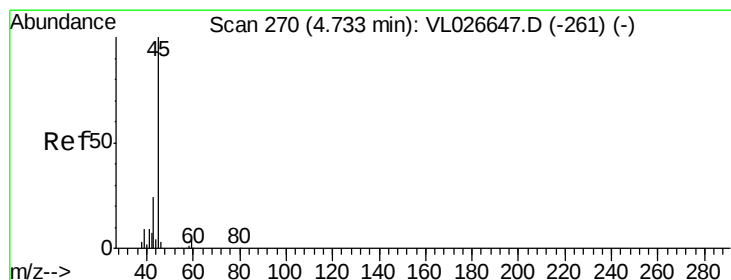
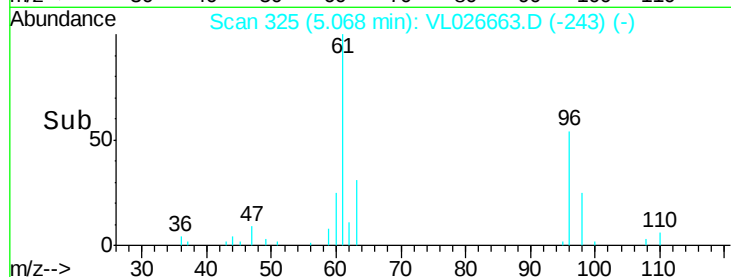
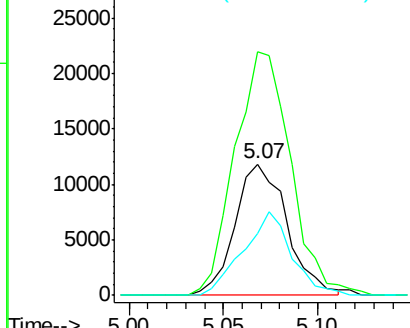
#18  
 1,1-Dichloroethene  
 Concen: 0.49 ppbv  
 RT: 5.07 min Scan# 325  
 Delta R.T. 0.00 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-5

Tot Ion: 96 Resp: 22657  
 Ion Ratio Lower Upper  
 96 100  
 61 185.1 176.7 265.1  
 98 46.8 51.8 77.6#

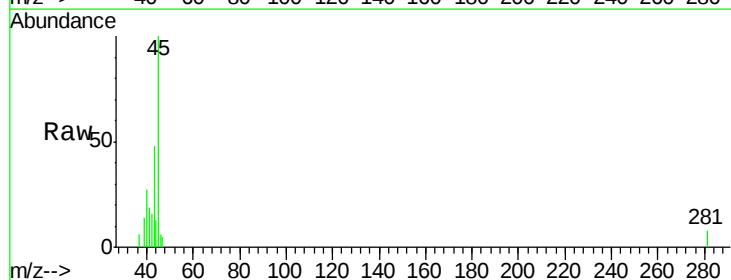


Abundance Ion 96.00 (95.70 to 96.70): VL0  
 Ion 61.10 (60.80 to 61.80): VL0  
 Ion 98.00 (97.70 to 98.70): VL0

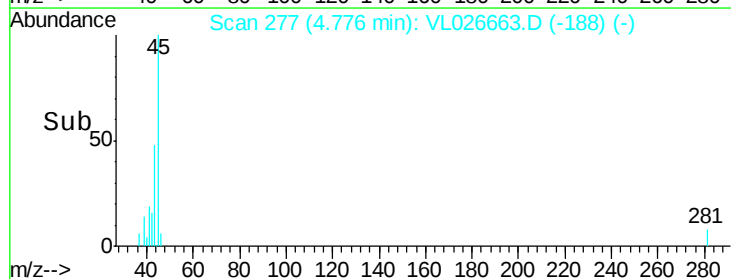
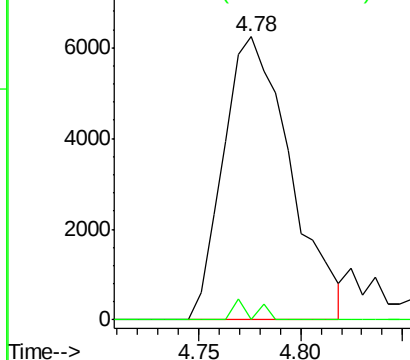


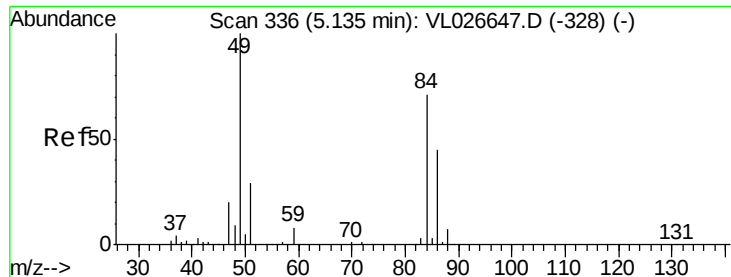
#19  
 Isopropyl Alcohol  
 Concen: 0.32 ppbv  
 RT: 4.78 min Scan# 277  
 Delta R.T. 0.04 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

Tgt Ion: 45 Resp: 14224  
 Ion Ratio Lower Upper  
 45 100  
 58 202.7 1.3 1.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0  
 Ion 58.10 (57.80 to 58.80): VL0

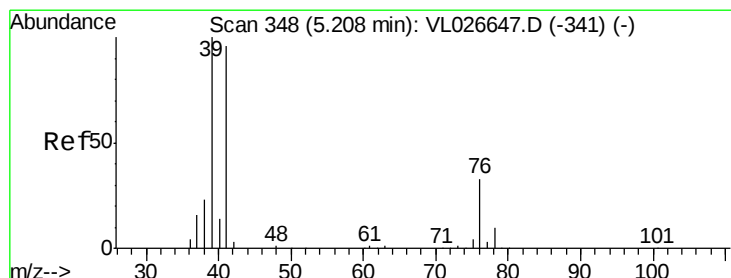
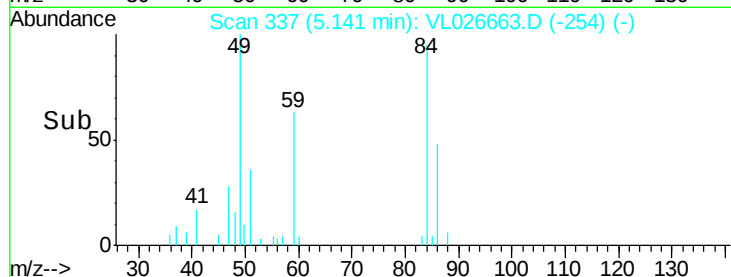
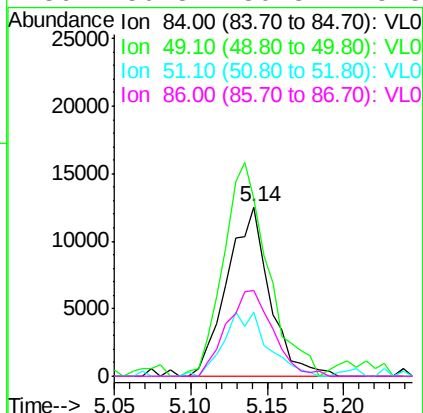
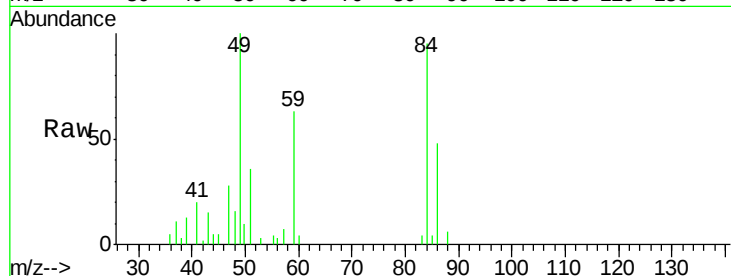




#20  
Methylene Chloride  
Concen: 0.55 ppbv  
RT: 5.14 min Scan# 337  
Delta R.T. 0.01 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

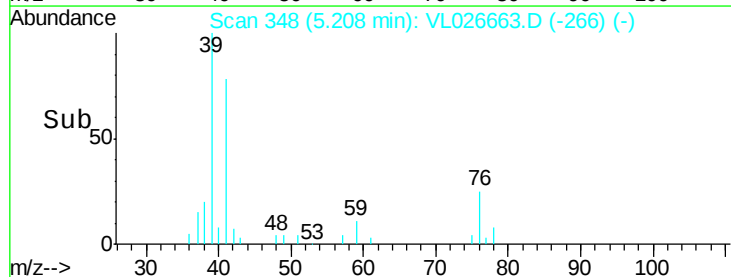
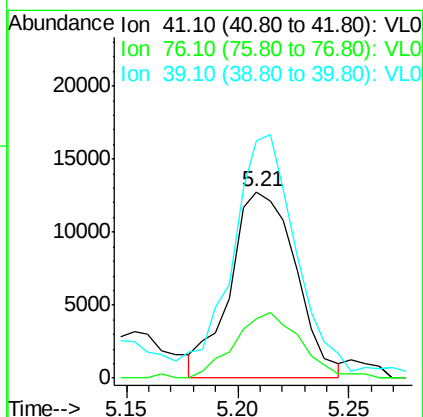
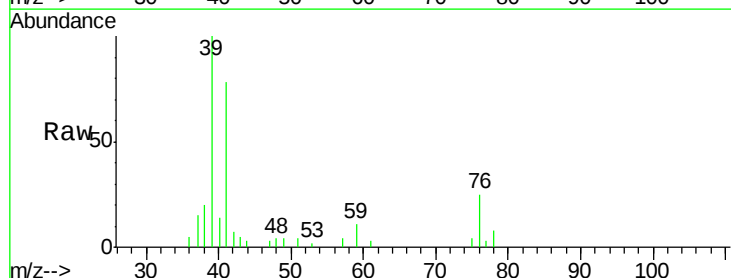
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-5

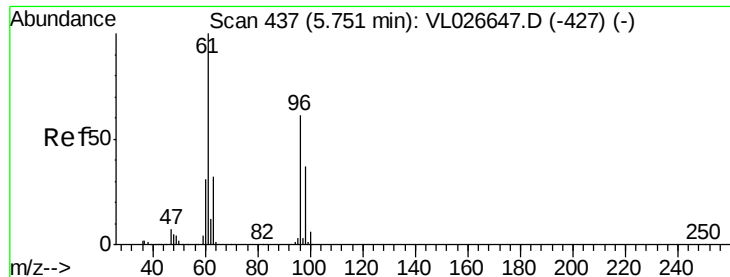
Tot Ion: 84 Resp: 24195  
Ion Ratio Lower Upper  
84 100  
49 101.8 112.3 168.5#  
51 35.5 32.5 48.7  
86 50.8 50.3 75.5



#21  
Allyl Chloride  
Concen: 0.40 ppbv  
RT: 5.21 min Scan# 348  
Delta R.T. 0.00 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Tgt Ion: 41 Resp: 26197  
Ion Ratio Lower Upper  
41 100  
76 36.2 27.5 41.3  
39 152.6 83.0 124.6#





#22

trans-1,2-Dichloroethene

Concen: 0.41 ppbv

RT: 5.75 min Scan# 437

Delta R.T. 0.00 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

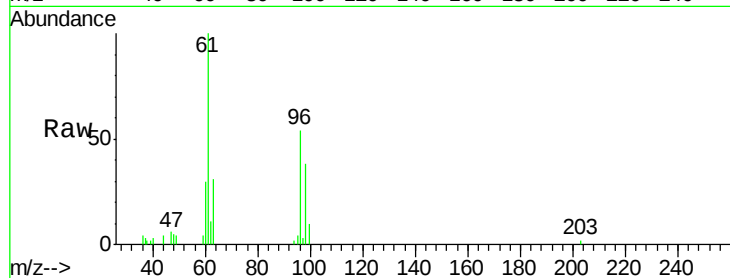
Tot Ion: 96 Resp: 21567

Ion Ratio Lower Upper

96 100

61 183.7 131.0 196.6

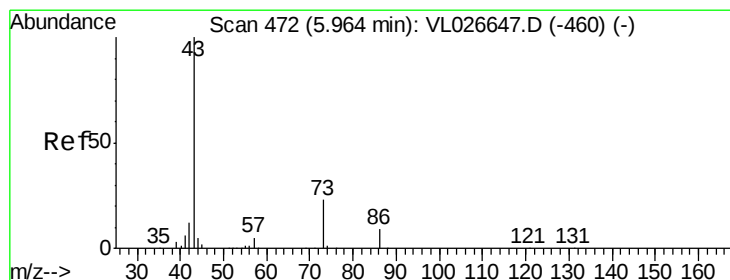
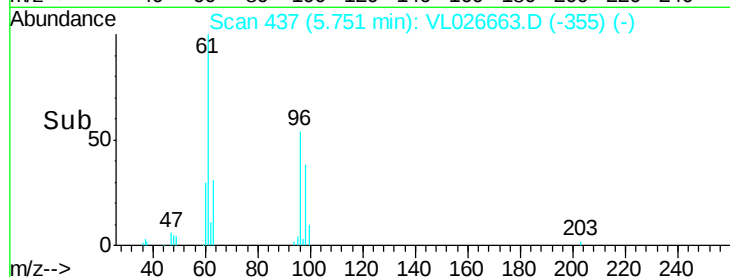
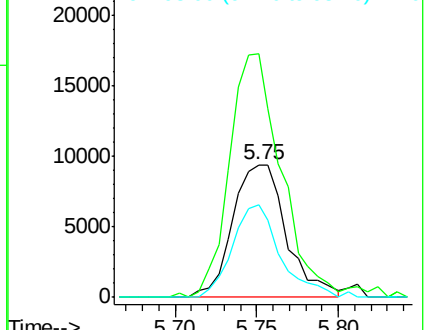
98 70.1 48.1 72.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.33 ppbv

RT: 5.98 min Scan# 474

Delta R.T. 0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Tgt Ion: 43 Resp: 54698

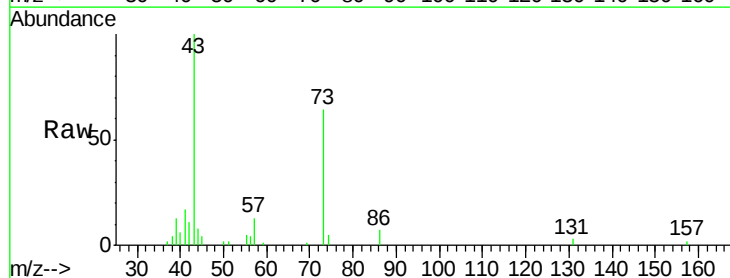
Ion Ratio Lower Upper

43 100

86 7.1 7.4 11.0#

42 11.1 9.2 13.8

44 7.7 3.8 5.8#

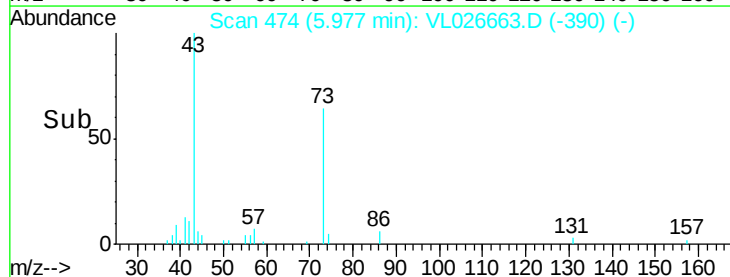
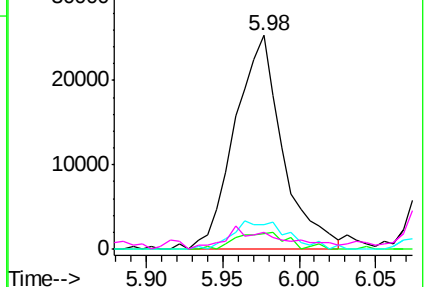


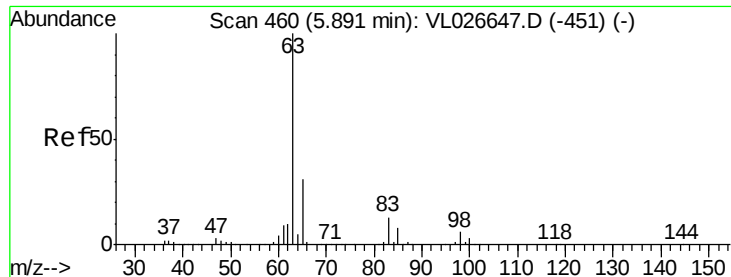
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.44 ppbv

RT: 5.89 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

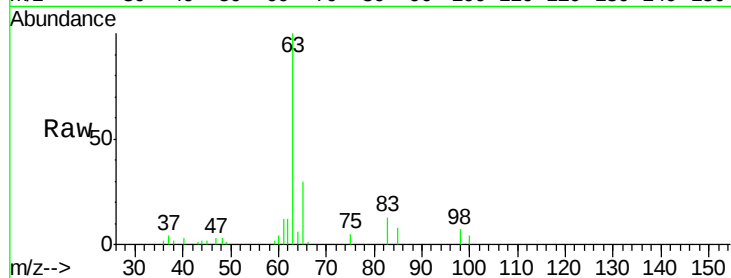
Tot Ion: 63 Resp: 51884

Ion Ratio Lower Upper

63 100

98 7.0 2.9 8.7

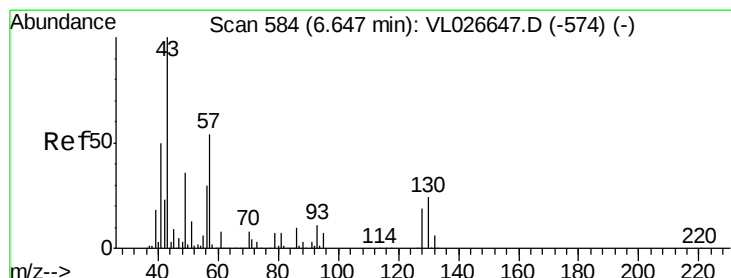
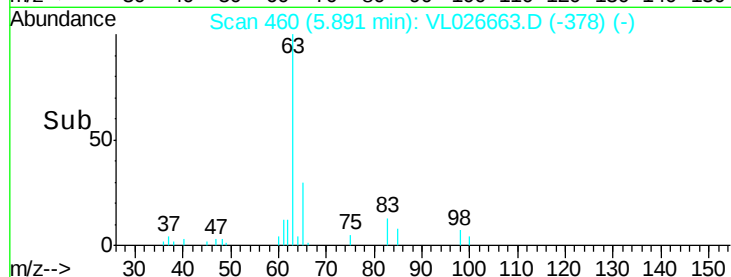
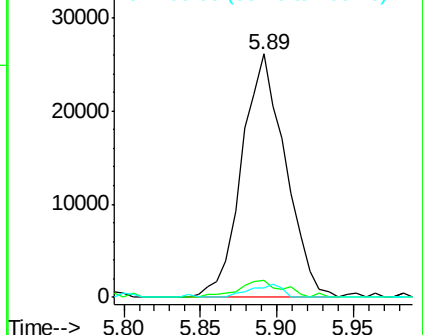
100 4.0 1.6 4.8



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.29 ppbv

RT: 6.67 min Scan# 587

Delta R.T. 0.02 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Tgt Ion: 43 Resp: 47602

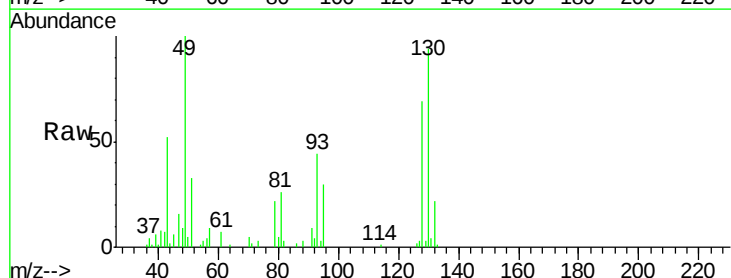
Ion Ratio Lower Upper

43 100

45 11.3 7.5 11.3#

61 13.3 7.3 10.9#

70 12.7 7.4 11.0#

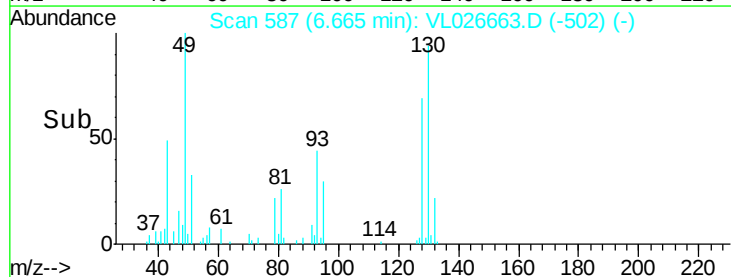
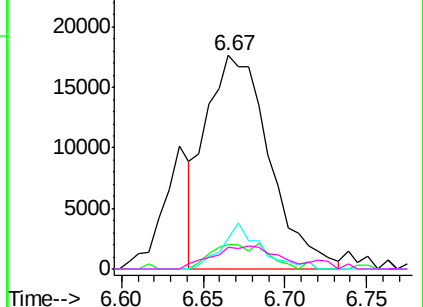


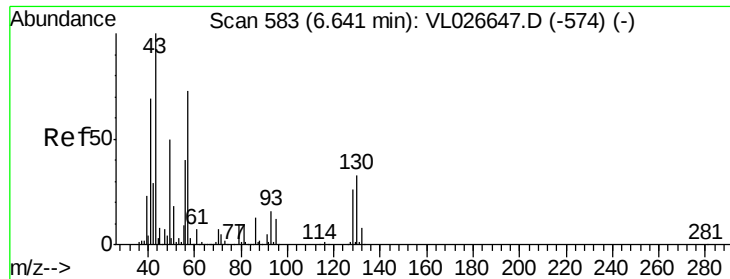
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

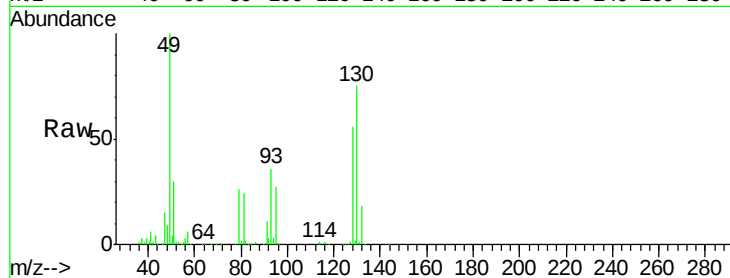




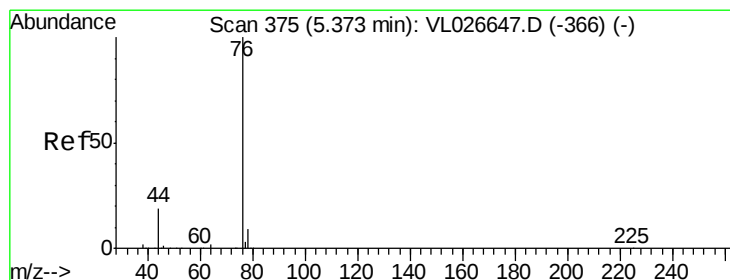
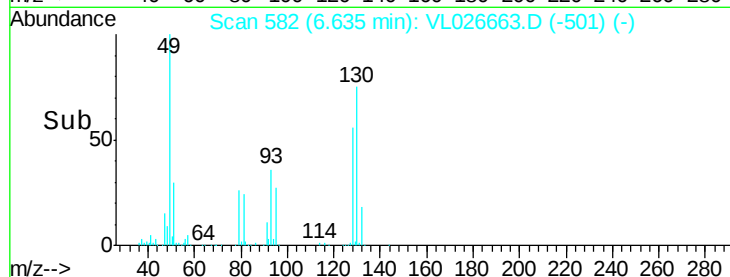
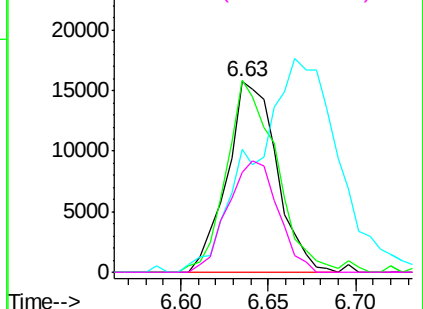
#26  
Hexane  
Concen: 0.37 ppbv  
RT: 6.63 min Scan# 582  
Delta R.T. -0.01 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-5

Tot Ion: 57 Resp: 31238  
Ion Ratio Lower Upper  
57 100  
41 104.5 74.8 112.2  
43 197.7 161.5 242.3  
56 58.9 44.4 66.6

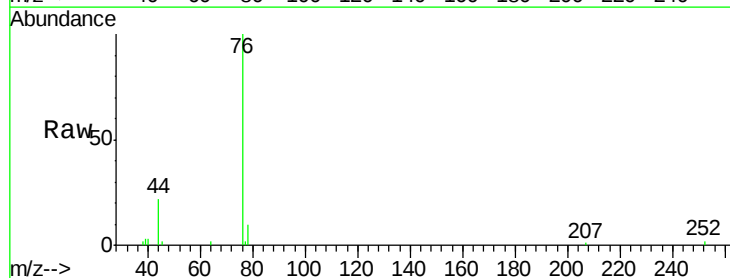


Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 43.10 (42.80 to 43.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0

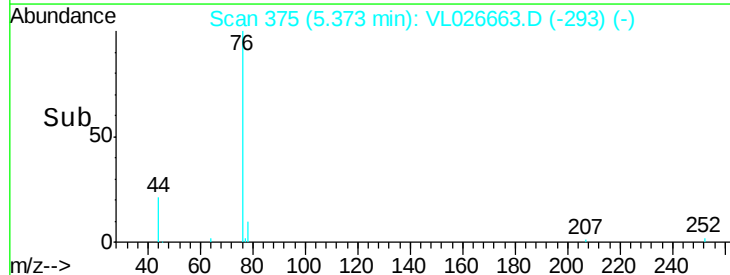
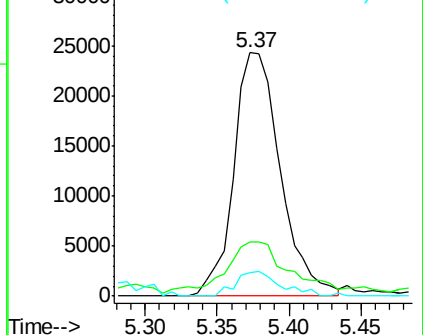


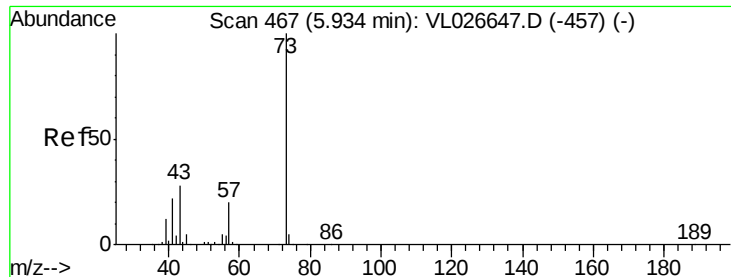
#27  
Carbon Disulfide  
Concen: 0.43 ppbv  
RT: 5.37 min Scan# 375  
Delta R.T. 0.00 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Tgt Ion: 76 Resp: 54848  
Ion Ratio Lower Upper  
76 100  
44 27.5 15.9 23.9#  
78 9.9 7.6 11.4



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

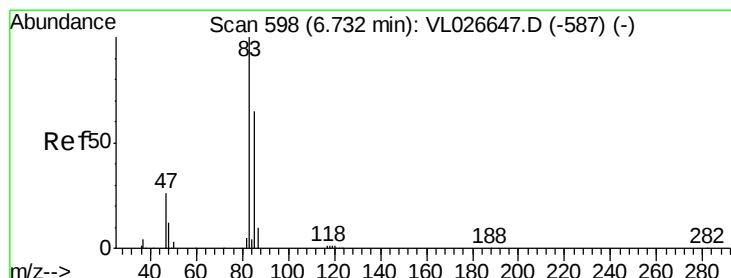
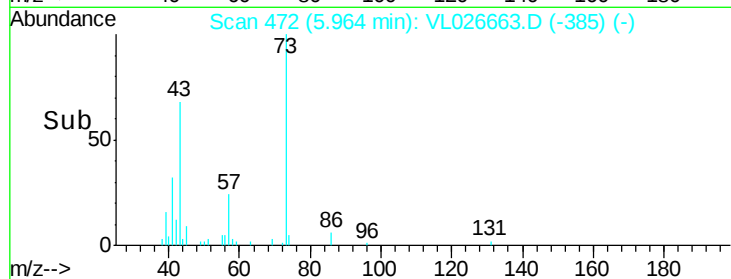
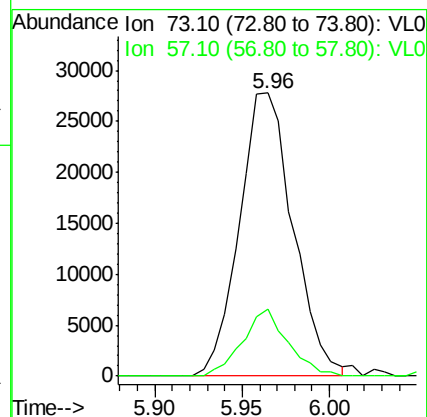
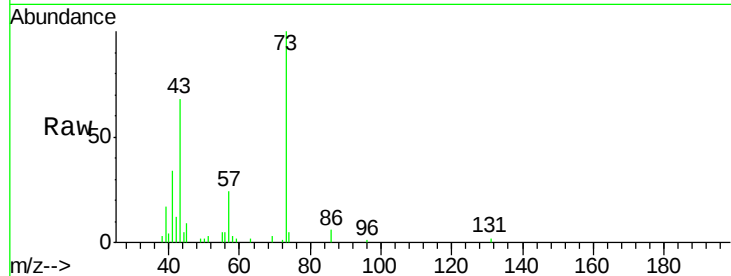




#28  
Methvl tert-Butvl Ether  
Concen: 0.35 ppbv  
RT: 5.96 min Scan# 472  
Delta R.T. 0.03 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

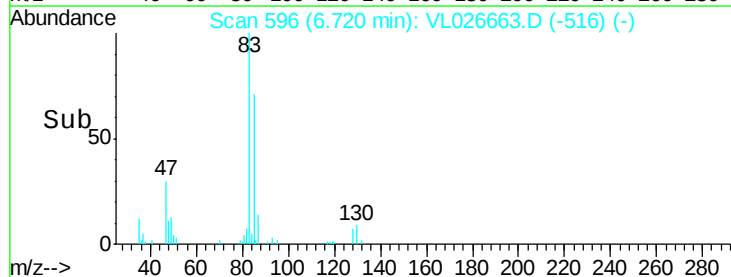
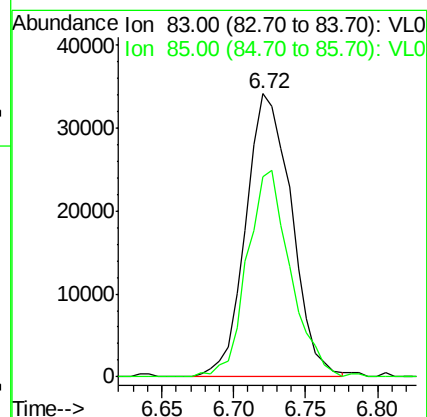
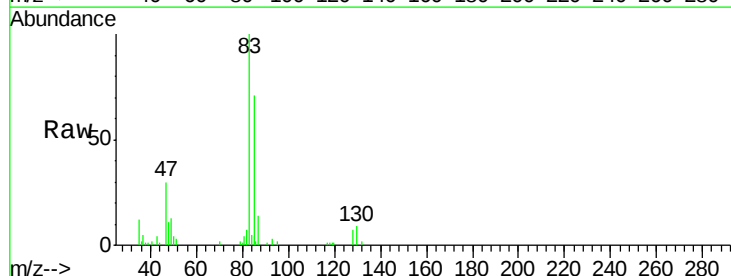
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-5

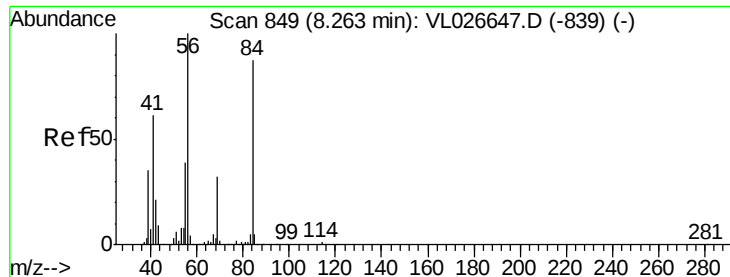
Tot Ion: 73 Resp: 59265  
Ion Ratio Lower Upper  
73 100  
57 20.0 16.2 24.4



#29  
Chloroform  
Concen: 0.48 ppbv  
RT: 6.72 min Scan# 596  
Delta R.T. -0.01 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Tgt Ion: 83 Resp: 75140  
Ion Ratio Lower Upper  
83 100  
85 70.7 51.6 77.4

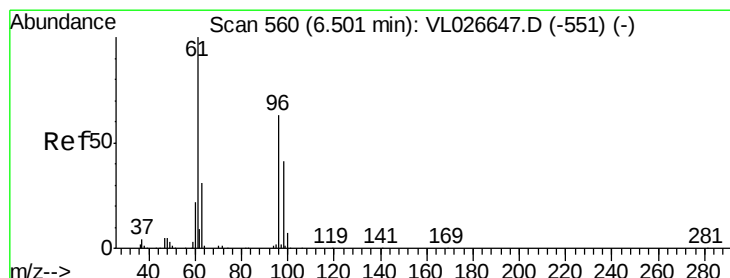
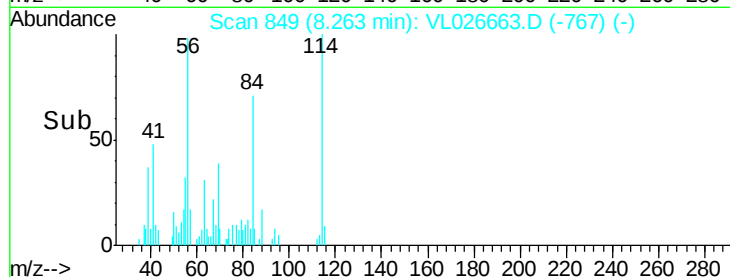
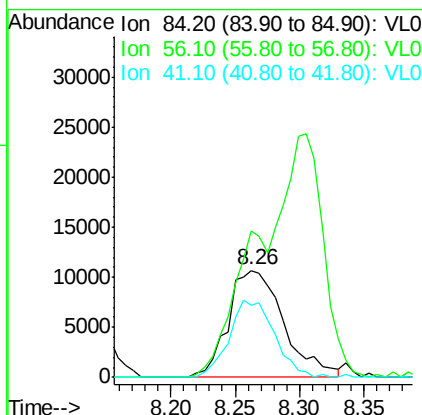
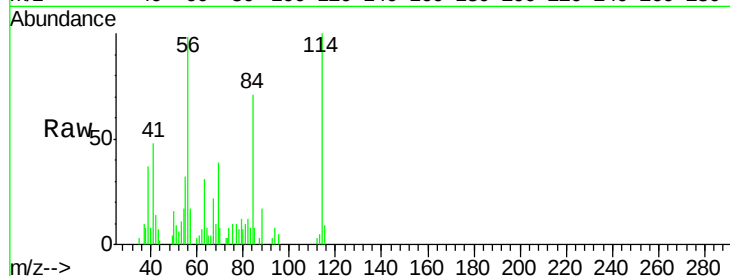




#30  
Cvclohexane  
Concen: 0.38 ppbv  
RT: 8.26 min Scan# 849  
Delta R.T. 0.00 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

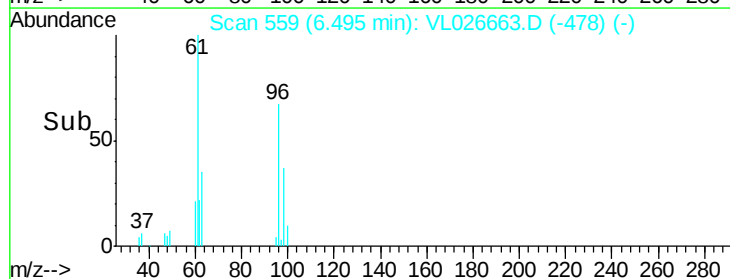
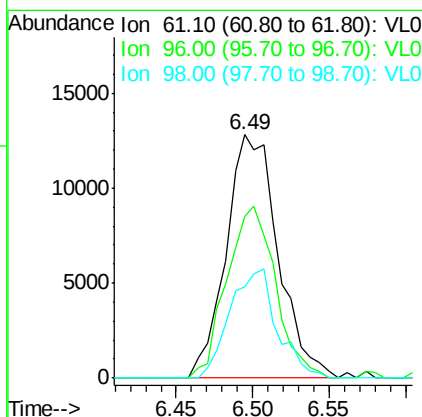
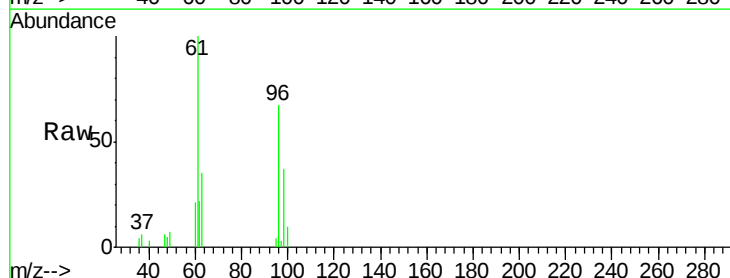
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-5

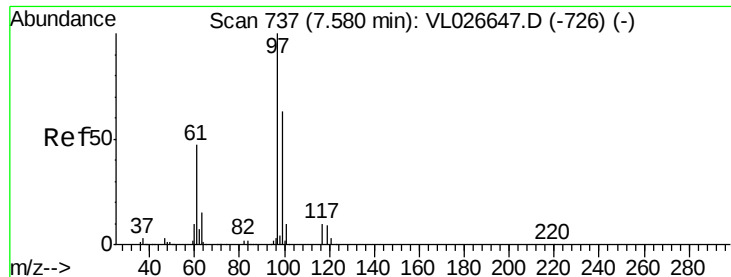
Tot Ion: 84 Resp: 32007  
Ion Ratio Lower Upper  
84 100  
56 0.0 95.9 143.9#  
41 58.8 54.8 82.2



#31  
cis-1,2-Dichloroethene  
Concen: 0.35 ppbv  
RT: 6.49 min Scan# 559  
Delta R.T. -0.01 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Tgt Ion: 61 Resp: 30244  
Ion Ratio Lower Upper  
61 100  
96 66.6 50.2 75.4  
98 37.3 32.4 48.6





#32

1,1,1-Trichloroethane

Concen: 0.44 ppbv

RT: 7.57 min Scan# 736

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

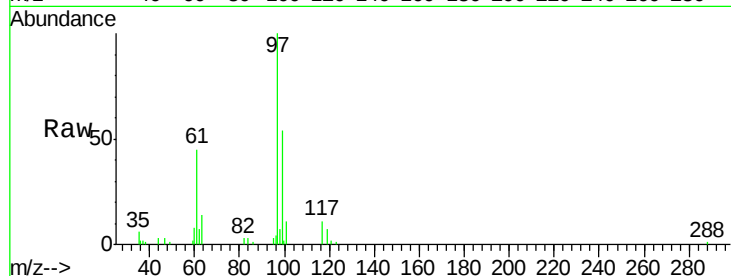
Tot Ion: 97 Resp: 76594

Ion Ratio Lower Upper

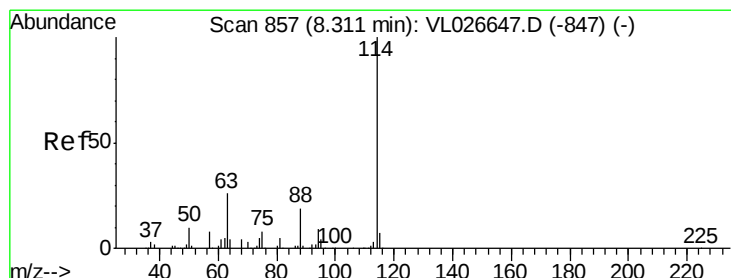
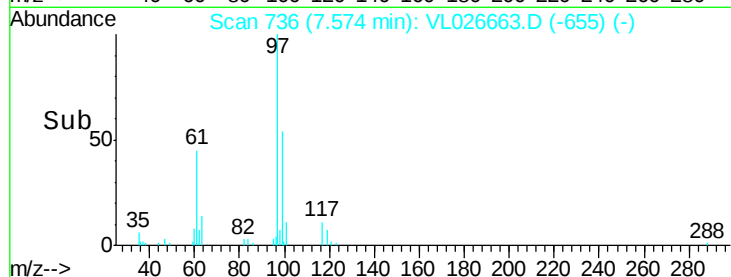
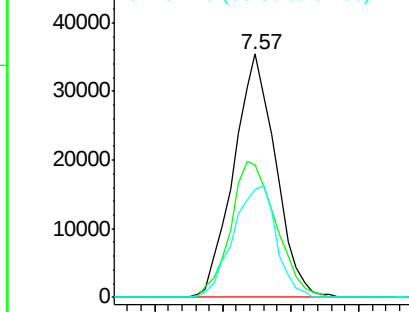
97 100

99 59.6 50.8 76.2

61 47.2 38.9 58.3



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



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.31 min Scan# 856

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

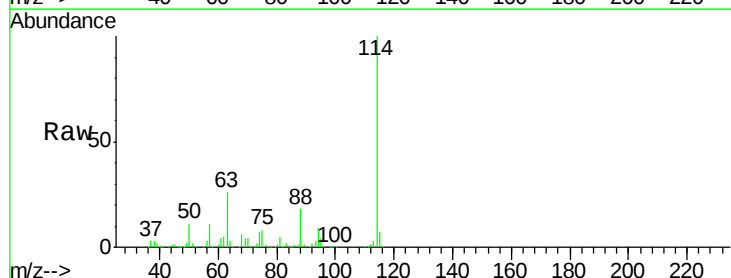
Tgt Ion: 114 Resp: 2069563

Ion Ratio Lower Upper

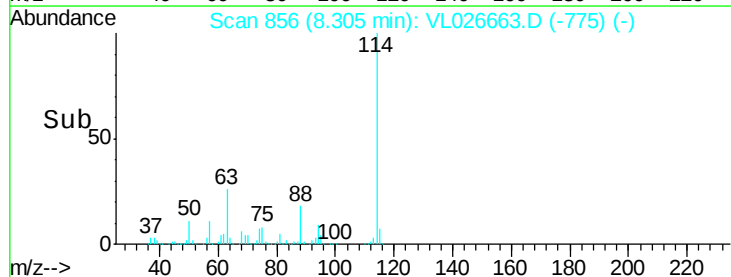
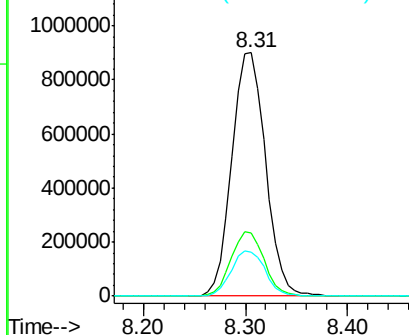
114 100

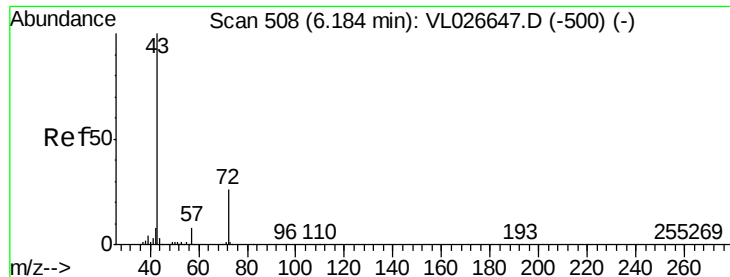
63 26.2 21.7 32.5

88 18.7 15.2 22.8



Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.36 ppbv

RT: 6.21 min Scan# 512

Delta R.T. 0.02 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

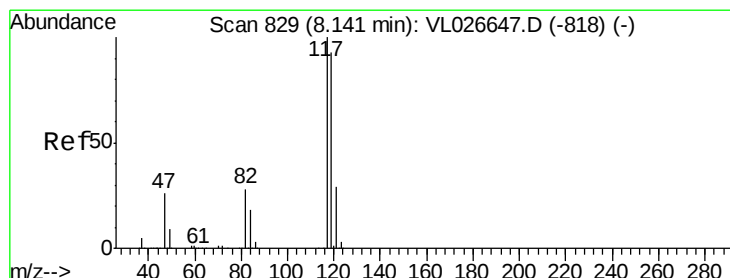
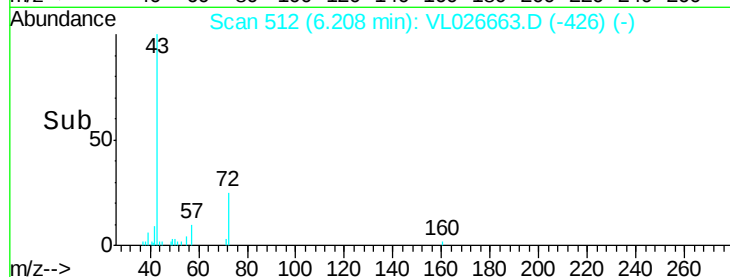
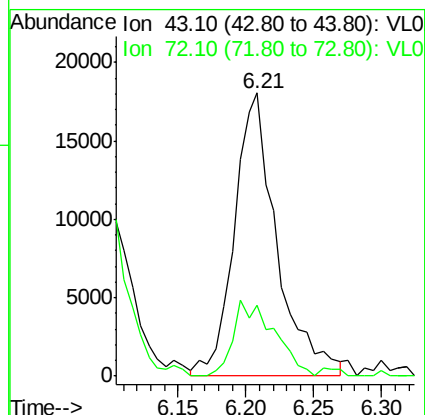
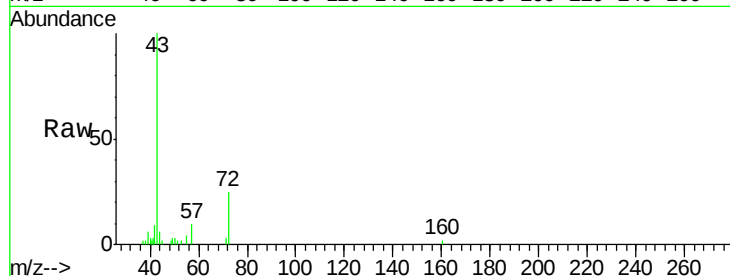
MDL-AIR-5

Tot Ion: 43 Resp: 39407

Ion Ratio Lower Upper

43 100

72 27.2 20.9 31.3



#35

Carbon Tetrachloride

Concen: 0.40 ppbv

RT: 8.13 min Scan# 828

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

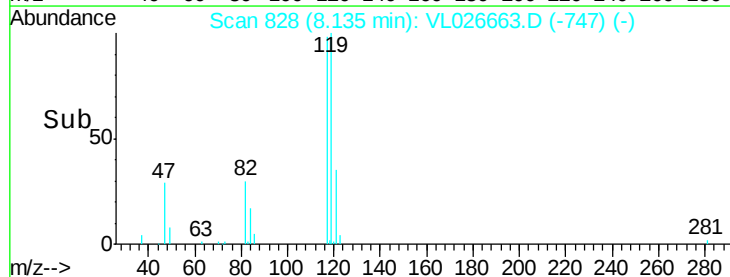
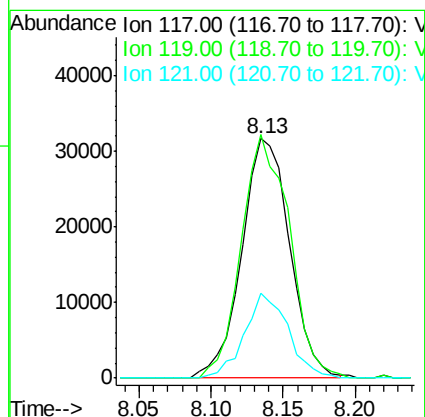
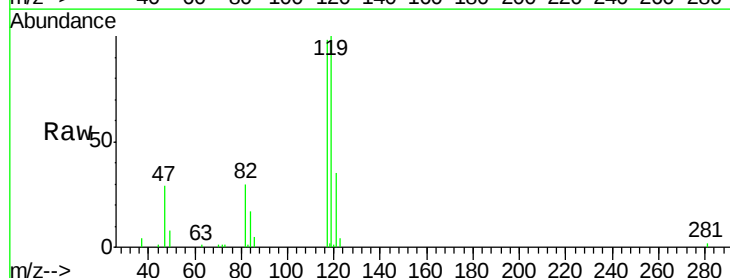
Tgt Ion: 117 Resp: 73055

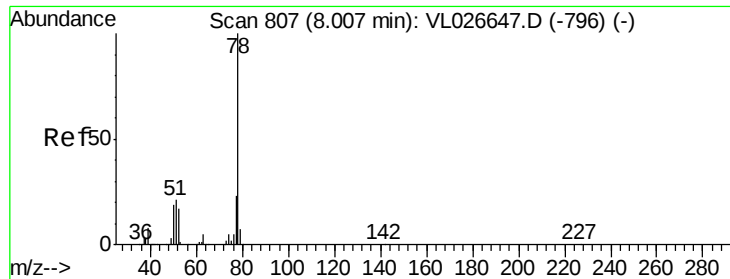
Ion Ratio Lower Upper

117 100

119 101.7 74.7 112.1

121 35.3 23.1 34.7#





#36

Benzene

Concen: 0.31 ppbv

RT: 8.00 min Scan# 806

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

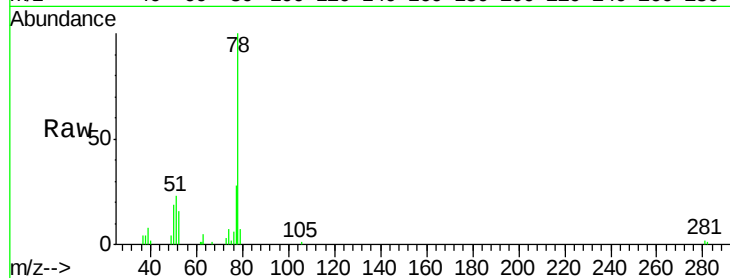
Tot Ion: 78 Resp: 65958

Ion Ratio Lower Upper

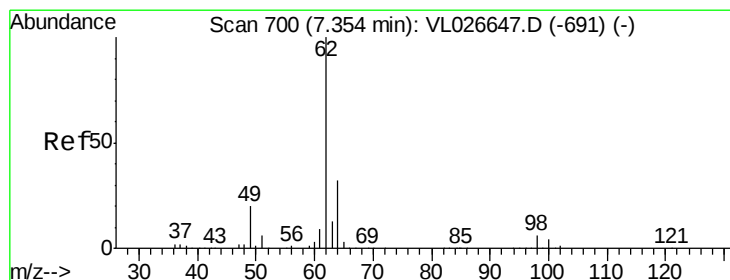
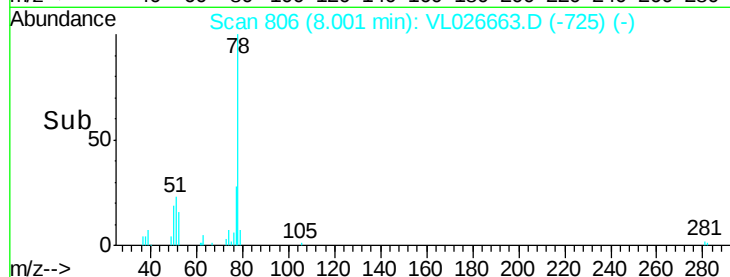
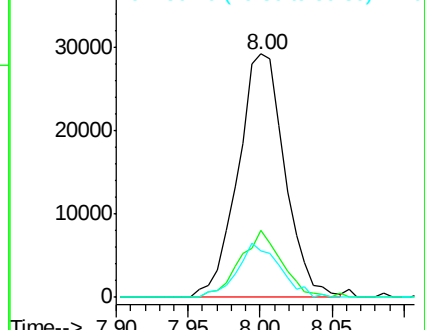
78 100

77 27.5 18.5 27.7

50 18.9 15.4 23.2



Abundance Ion 78.10 (77.80 to 78.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0  
Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.40 ppbv

RT: 7.35 min Scan# 700

Delta R.T. 0.00 min

Lab File: VL026663.D

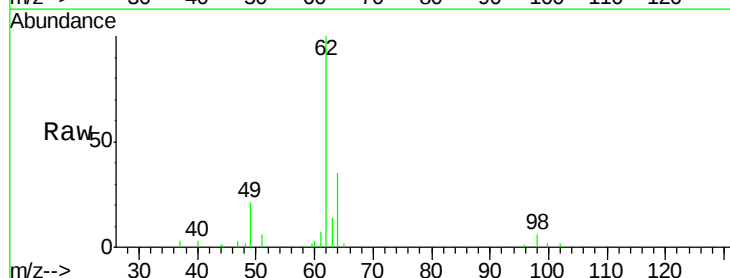
Acq: 9 Jan 2016 6:25

Tgt Ion: 62 Resp: 58887

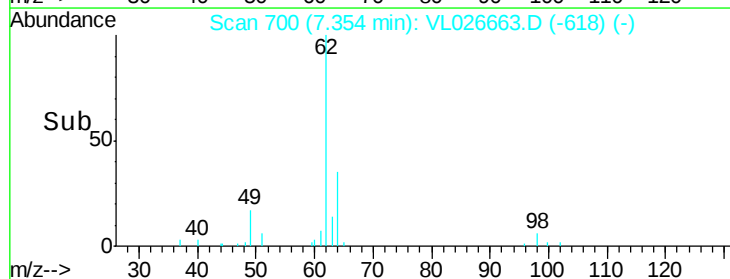
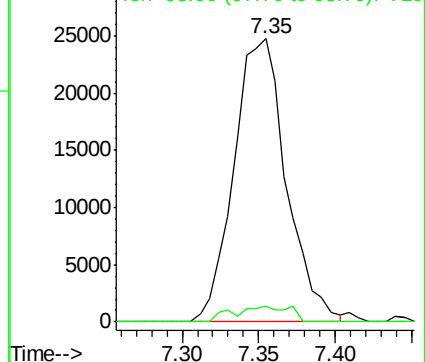
Ion Ratio Lower Upper

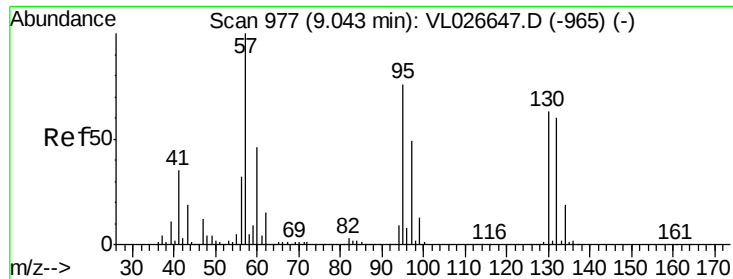
62 100

98 6.0 4.8 7.2



Abundance Ion 62.10 (61.80 to 62.80): VL0  
Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.22 ppbv

RT: 9.04 min Scan# 976

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

Tot Ion:130 Resp: 20843

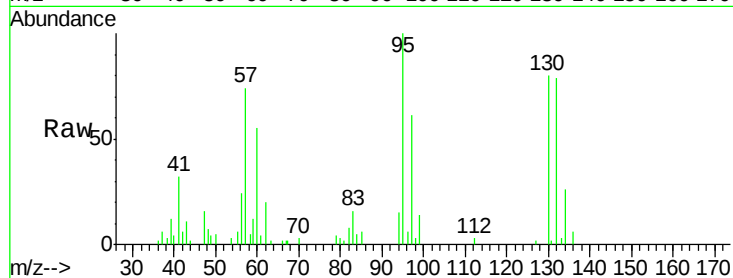
Ion Ratio Lower Upper

130 100

95 124.6 96.6 145.0

132 97.8 76.2 114.4

97 76.4 62.3 93.5

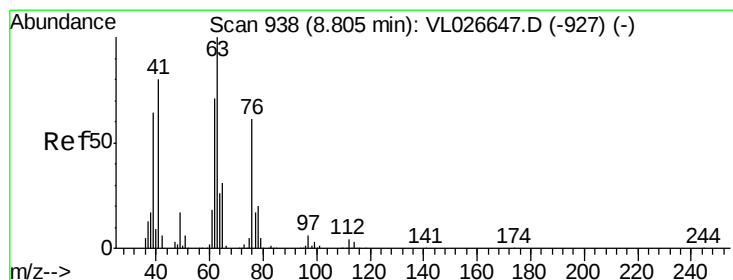
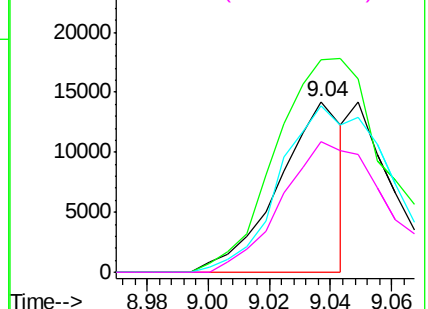
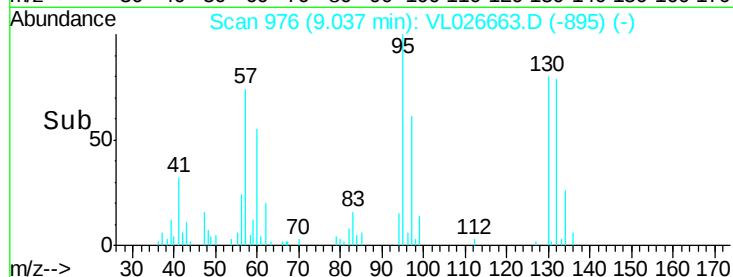


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.40 ppbv

RT: 8.81 min Scan# 938

Delta R.T. 0.00 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

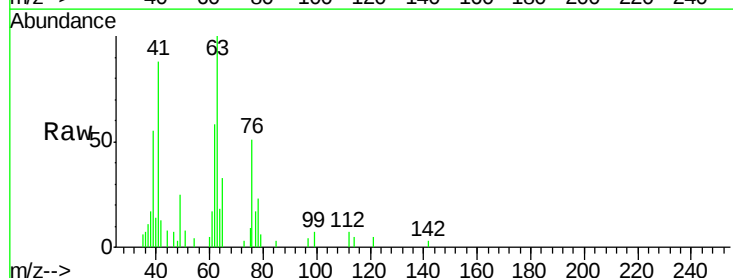
Tgt Ion: 63 Resp: 29721

Ion Ratio Lower Upper

63 100

41 82.8 64.1 96.1

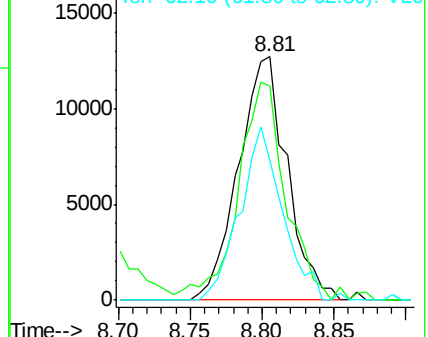
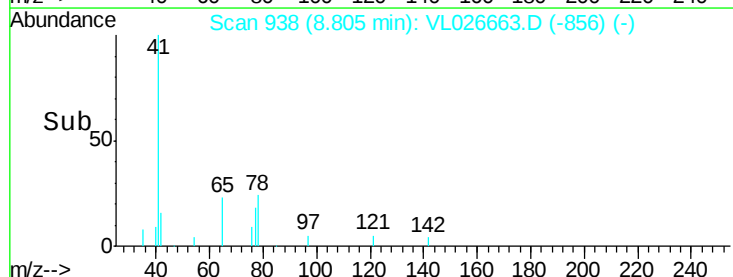
62 57.7 56.6 84.8

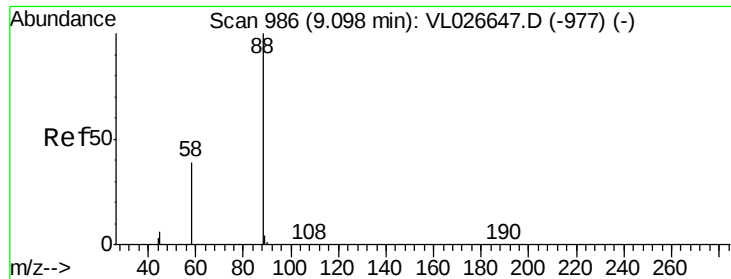


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#40

1,4-Dioxane

Concen: 0.05 ppbv

RT: 9.16 min Scan# 996

Delta R.T. 0.06 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

Tot Ion: 88 Resp: 855

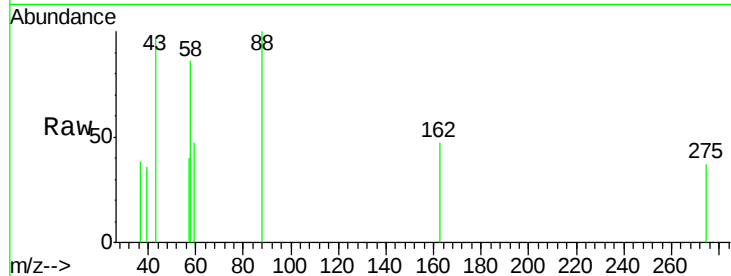
Ion Ratio Lower Upper

88 100

58 511.1 109.4 164.2#

43 2343.5 238.2 357.2#

57 12932.6 1148.3 1722.5#

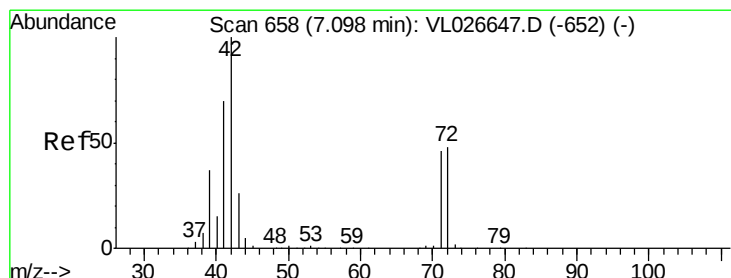
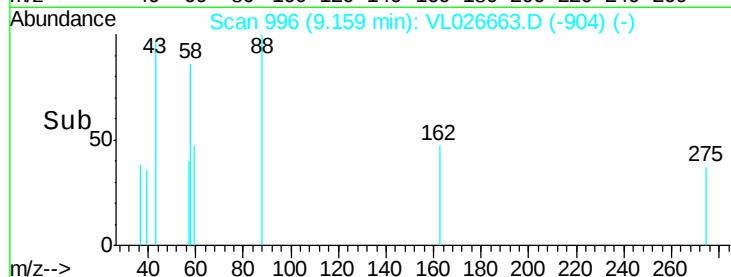
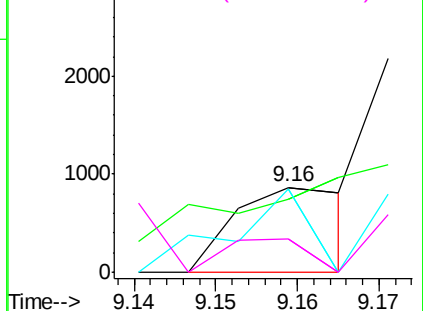


Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 0.25 ppbv

RT: 7.15 min Scan# 666

Delta R.T. 0.05 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

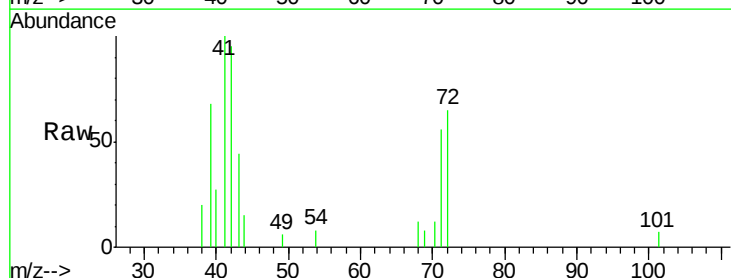
Tgt Ion: 42 Resp: 13621

Ion Ratio Lower Upper

42 100

72 59.0 40.6 60.8

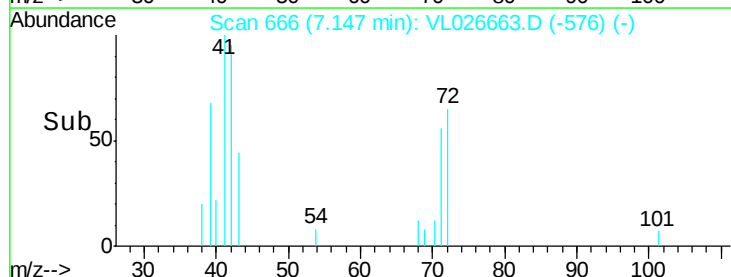
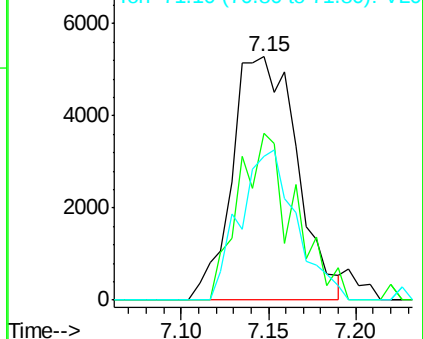
71 53.2 38.4 57.6

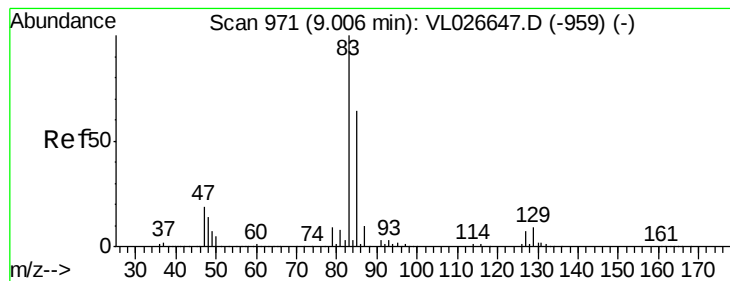


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.41 ppbv

RT: 9.00 min Scan# 970

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

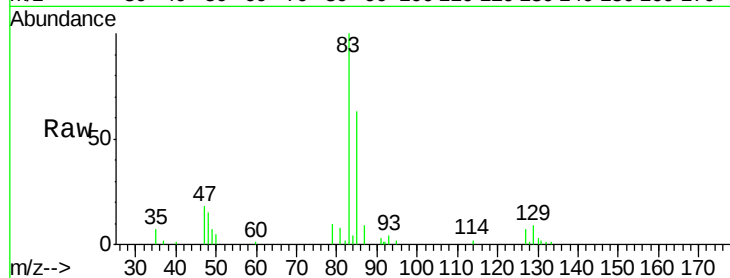
Tot Ion: 83 Resp: 77266

Ion Ratio Lower Upper

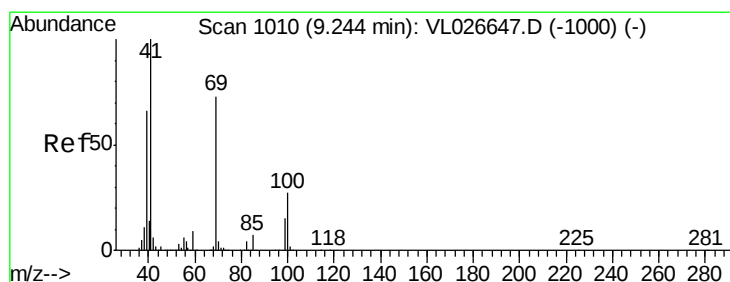
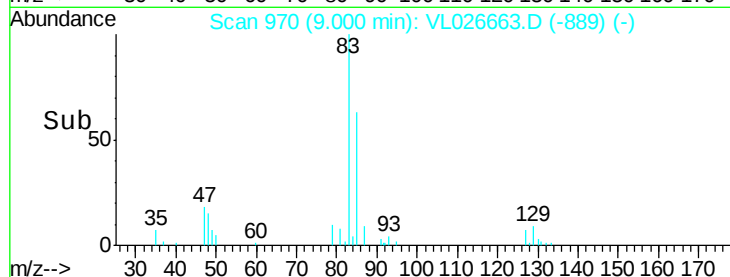
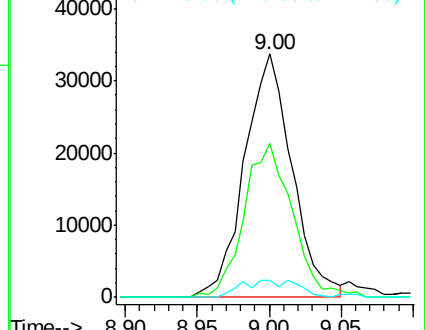
83 100

85 63.3 50.9 76.3

127 7.2 5.5 8.3



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



#43

Methyl Methacrylate

Concen: 0.32 ppbv

RT: 9.25 min Scan# 1011

Delta R.T. 0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

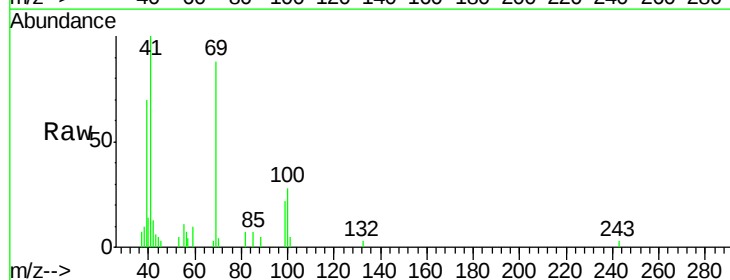
Tgt Ion: 69 Resp: 24692

Ion Ratio Lower Upper

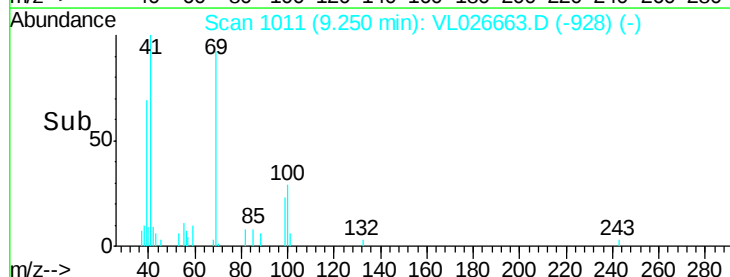
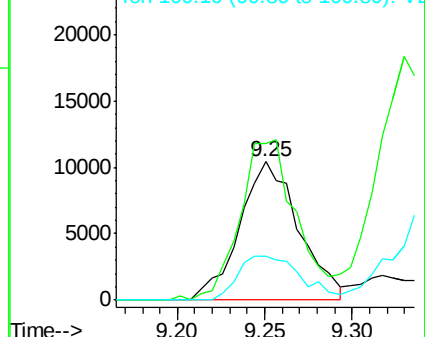
69 100

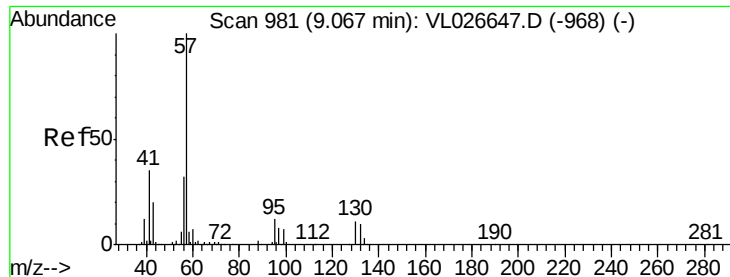
41 109.0 106.1 159.1

100 33.0 29.0 43.4



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





#44

2,2,4-Trimethylpentane

Concen: 0.32 ppbv

RT: 9.06 min Scan# 980

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

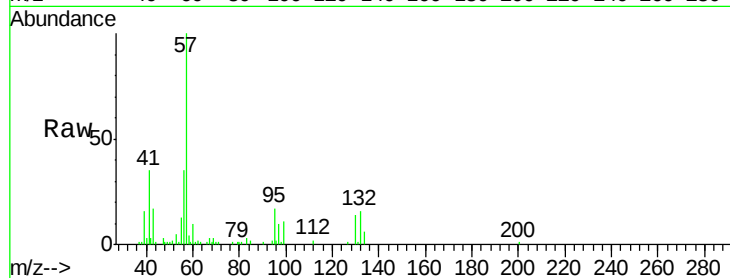
Tot Ion: 57 Resp: 109302

Ion Ratio Lower Upper

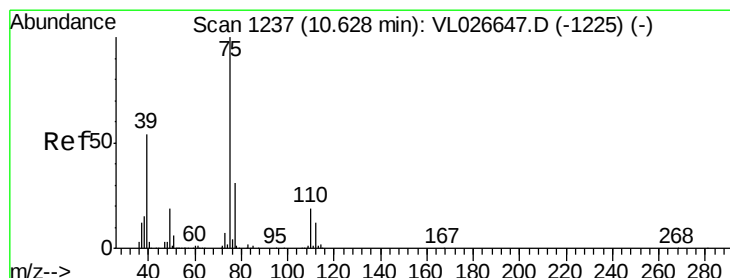
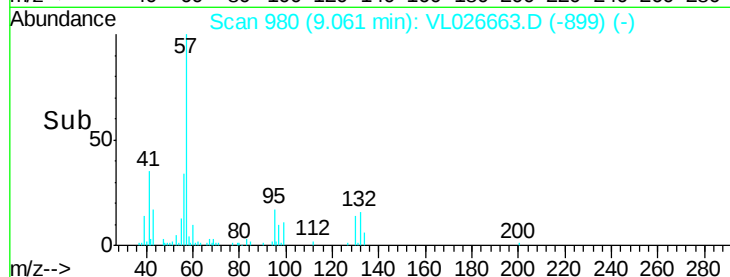
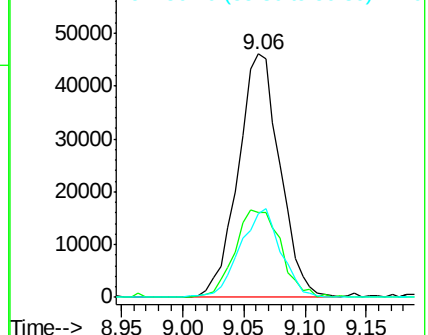
57 100

41 39.6 26.9 40.3

56 35.7 25.4 38.0



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



#45

t-1,3-Dichloropropene

Concen: 0.27 ppbv

RT: 10.63 min Scan# 1237

Delta R.T. 0.00 min

Lab File: VL026663.D

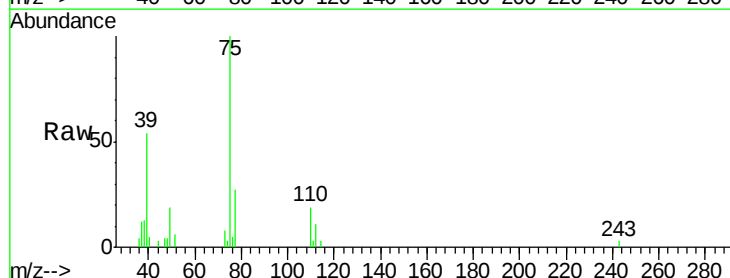
Acq: 9 Jan 2016 6:25

Tgt Ion: 75 Resp: 34185

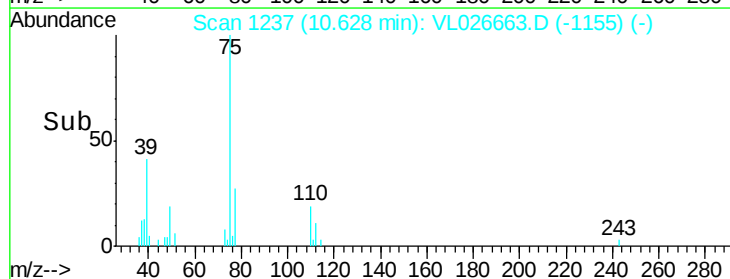
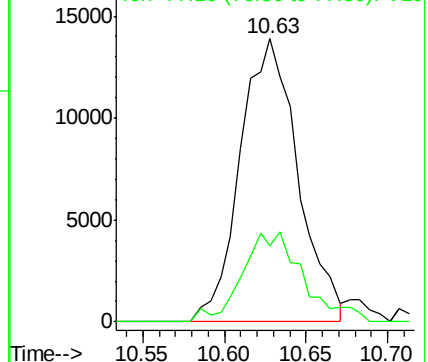
Ion Ratio Lower Upper

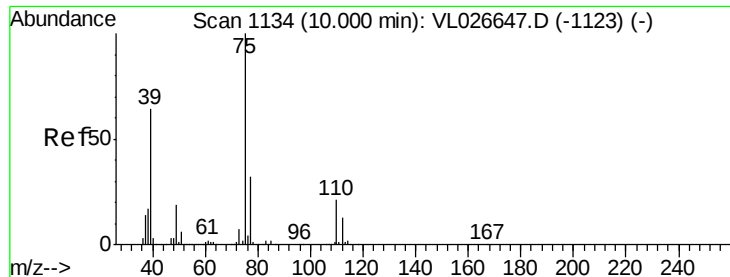
75 100

77 26.9 24.6 37.0



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: 0.29 ppbv

RT: 10.00 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

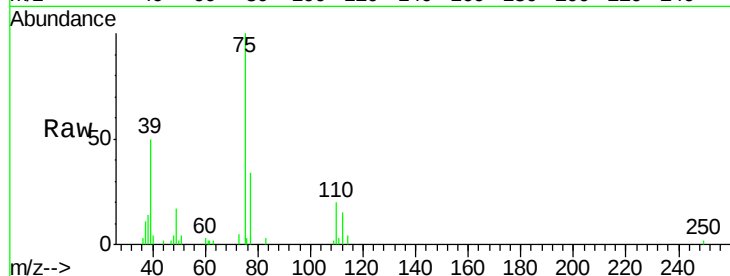
Tot Ion: 75 Resp: 42009

Ion Ratio Lower Upper

75 100

39 50.4 51.2 76.8#

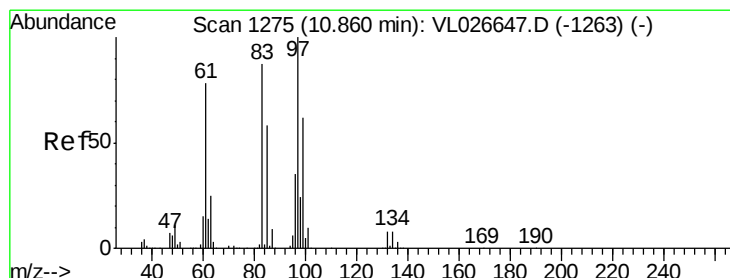
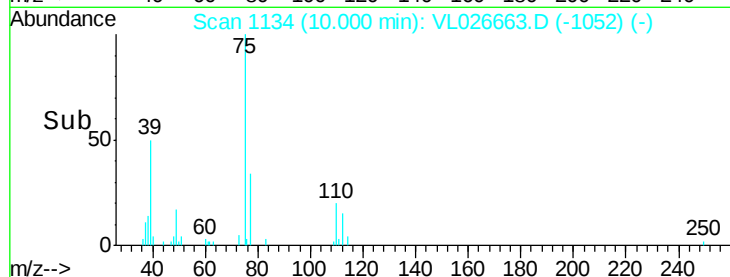
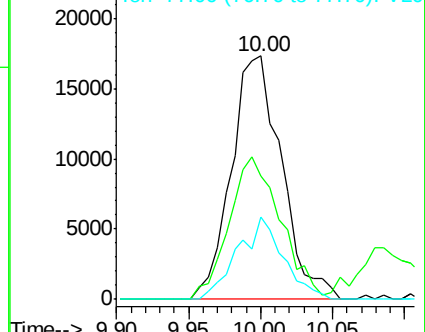
77 33.9 25.9 38.9



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: 0.40 ppbv

RT: 10.85 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Tgt Ion: 97 Resp: 41762

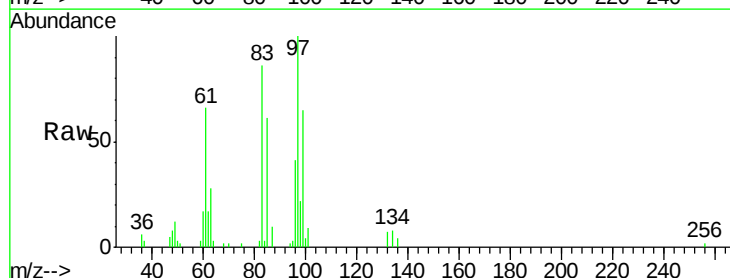
Ion Ratio Lower Upper

97 100

83 85.5 69.5 104.3

85 60.8 46.4 69.6

99 65.1 49.9 74.9

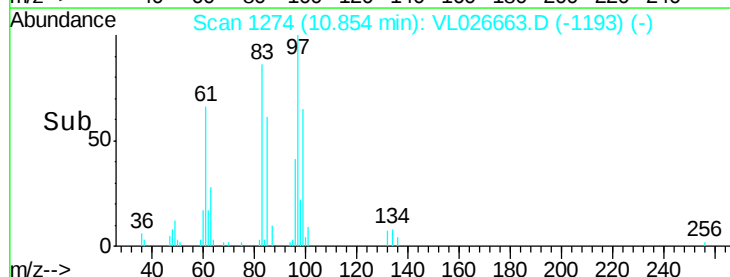
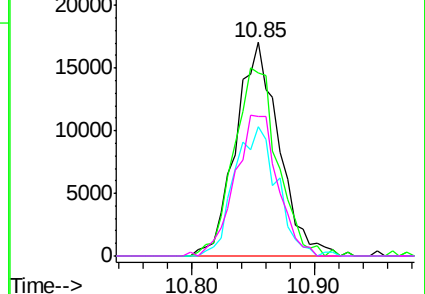


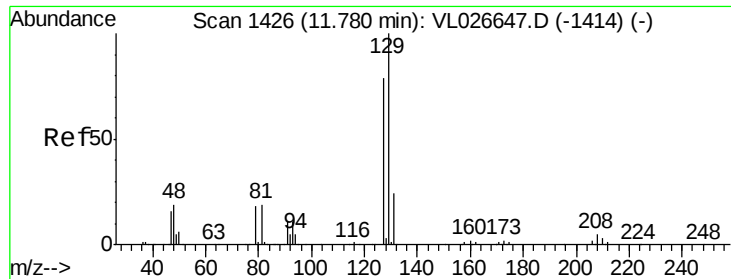
Abundance Ion 97.00 (96.70 to 97.70): VL0

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

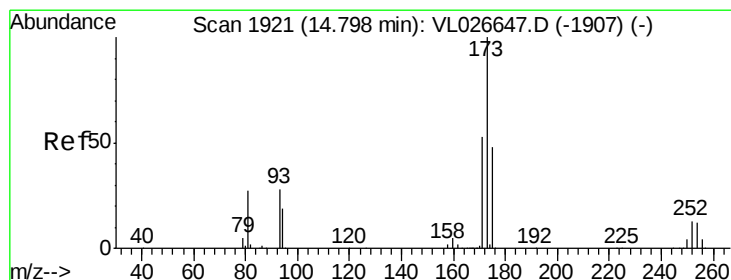
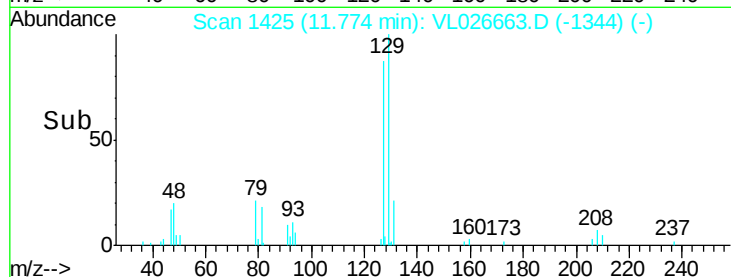
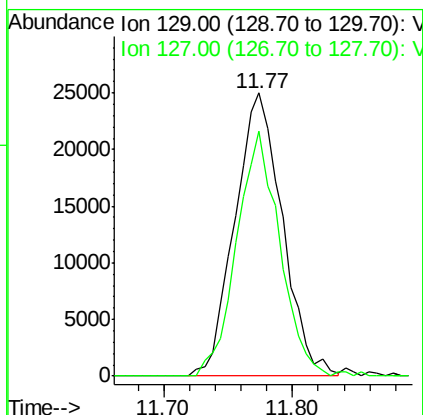
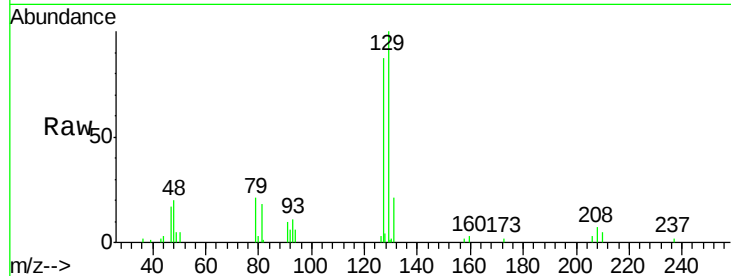




#48  
Dibromochloromethane  
Concen: 0.41 ppbv  
RT: 11.77 min Scan# 1425  
Delta R.T. -0.01 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

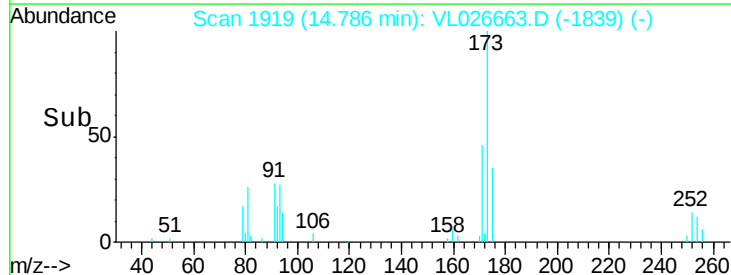
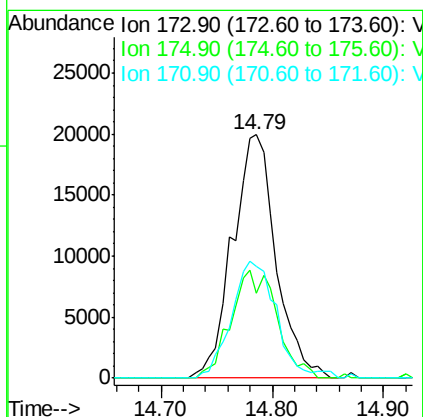
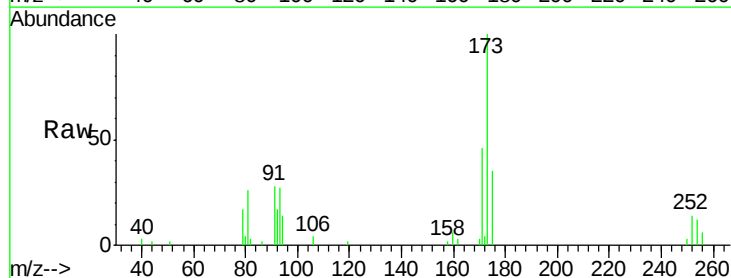
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-5

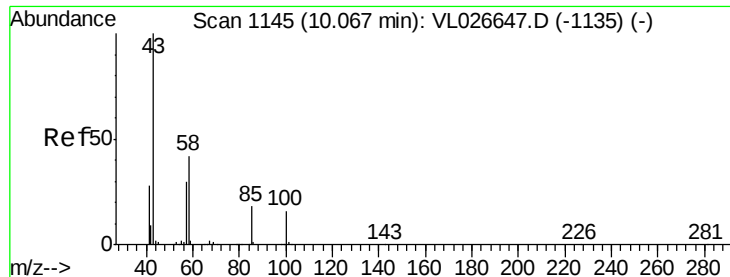
Tot Ion:129 Resp: 63886  
Ion Ratio Lower Upper  
129 100  
127 78.5 39.5 118.5



#49  
Bromoform  
Concen: 0.42 ppbv  
RT: 14.79 min Scan# 1919  
Delta R.T. -0.01 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Tgt Ion:173 Resp: 54148  
Ion Ratio Lower Upper  
173 100  
175 47.0 38.6 58.0  
171 49.7 41.5 62.3

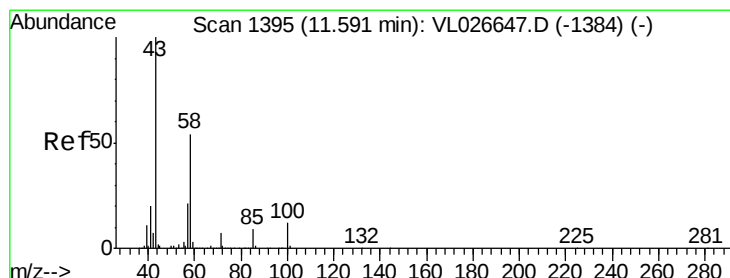
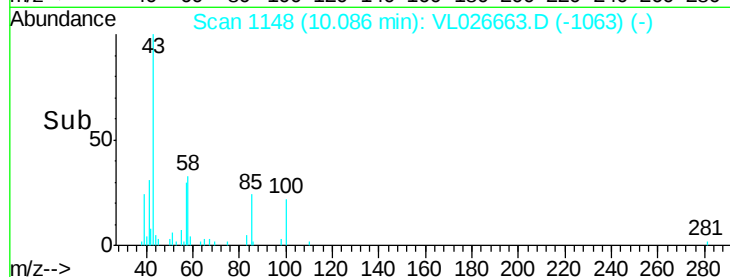
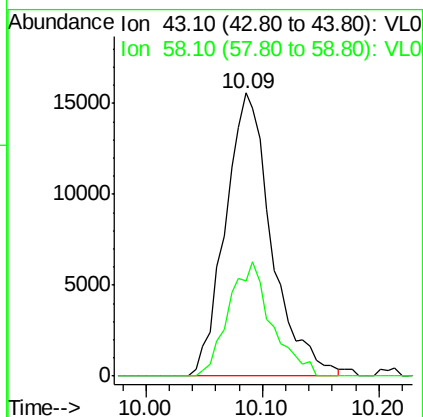
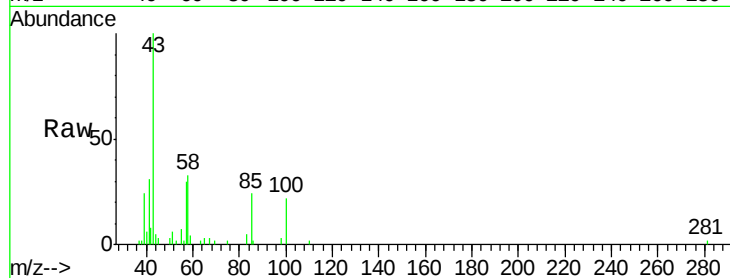




#50  
4-Methyl-2-Pentanone  
Concen: 0.28 ppbv  
RT: 10.09 min Scan# 1148  
Delta R.T. 0.02 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

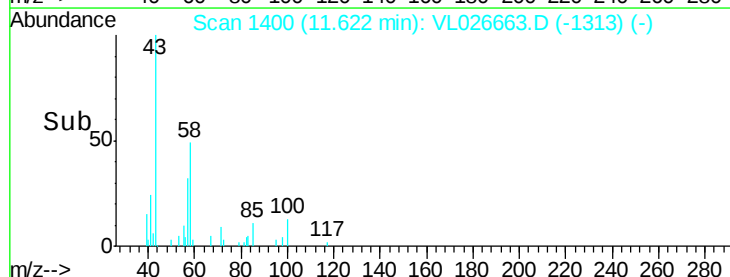
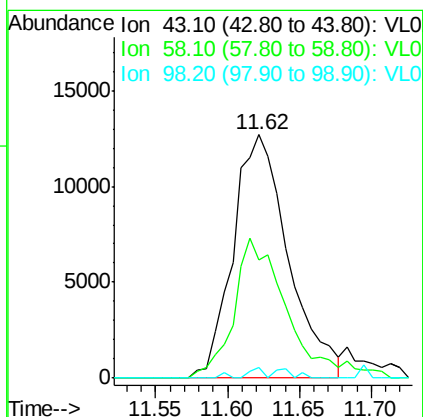
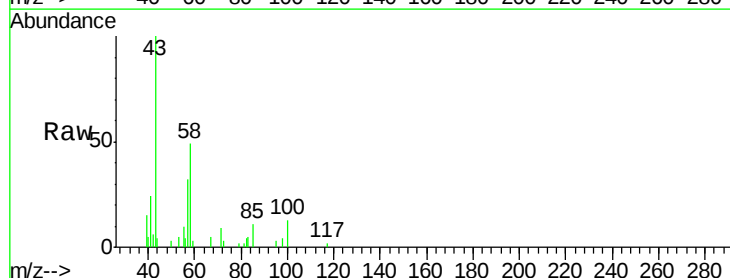
Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-5

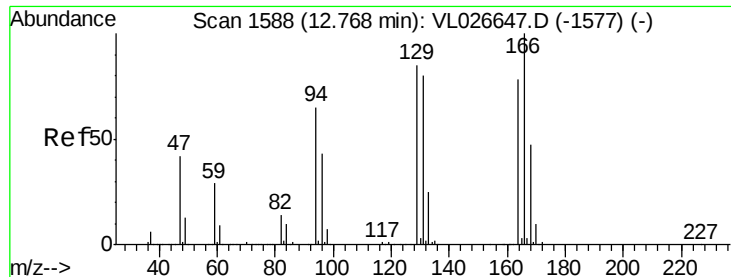
Tot Ion: 43 Resp: 43060  
Ion Ratio Lower Upper  
43 100  
58 37.1 32.4 48.6



#51  
2-Hexanone  
Concen: 0.24 ppbv  
RT: 11.62 min Scan# 1400  
Delta R.T. 0.03 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Tgt Ion: 43 Resp: 33918  
Ion Ratio Lower Upper  
43 100  
58 55.6 44.9 67.3  
98 2.6 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.41 ppbv

RT: 12.76 min Scan# 1587

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

Tot Ion:164 Resp: 43753

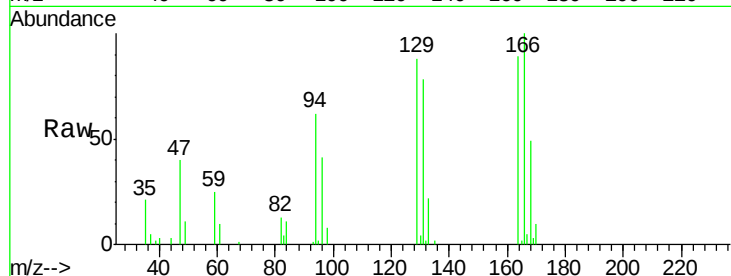
Ion Ratio Lower Upper

164 100

166 112.4 102.5 153.7

129 98.8 87.0 130.6

131 87.1 82.5 123.7

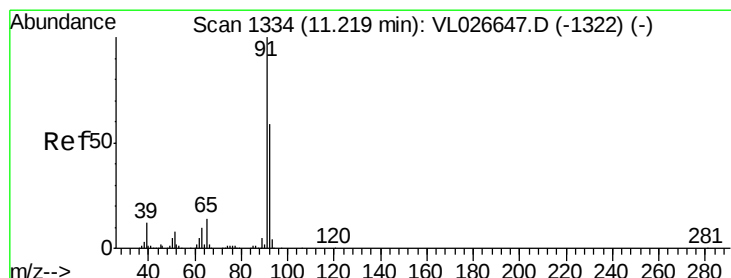
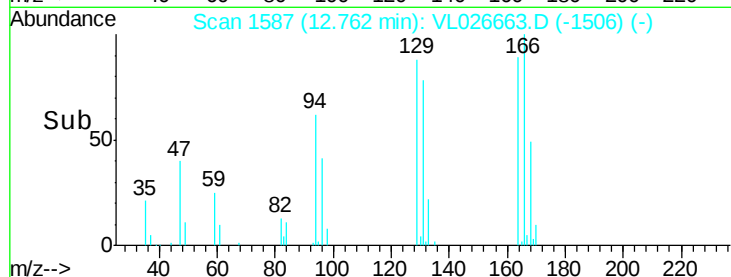
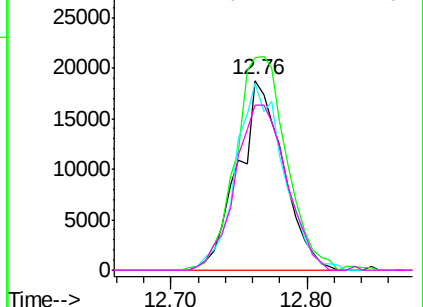


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.32 ppbv

RT: 11.21 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VL026663.D

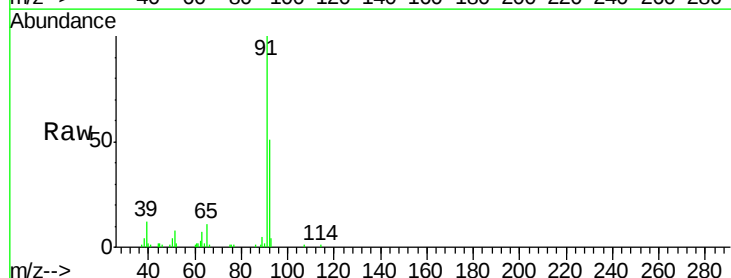
Acq: 9 Jan 2016 6:25

Tgt Ion: 91 Resp: 95611

Ion Ratio Lower Upper

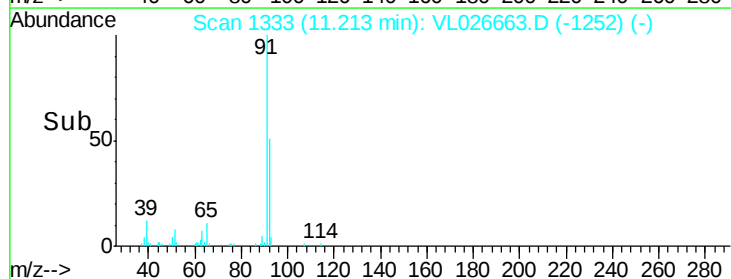
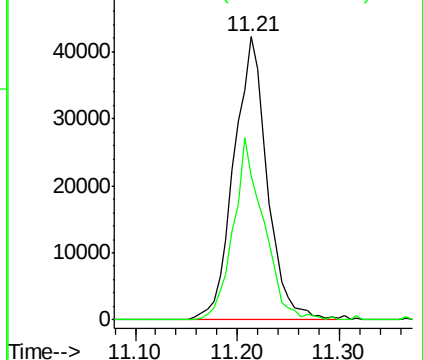
91 100

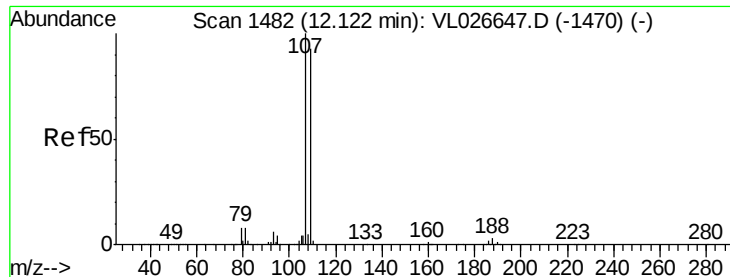
92 58.6 48.2 72.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

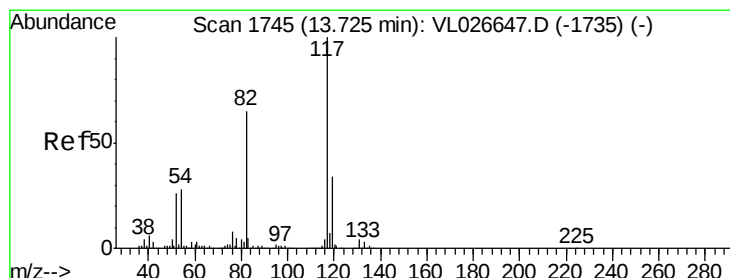
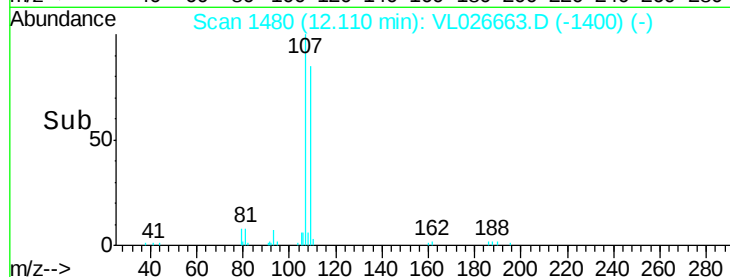
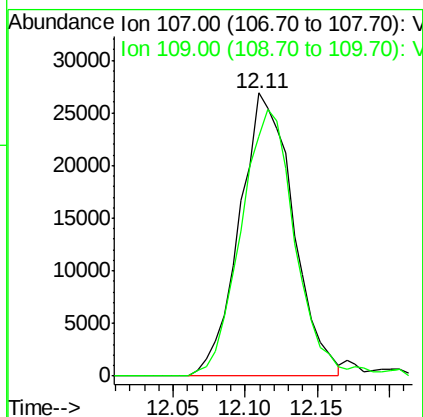
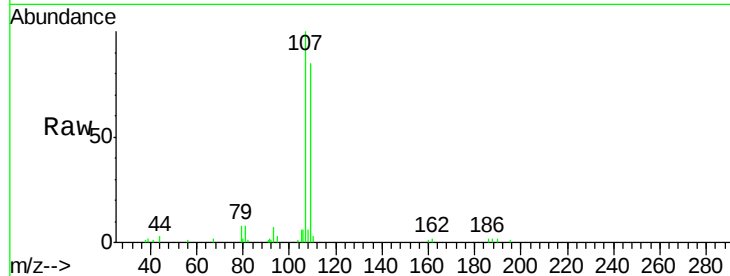




#54  
 1,2-Dibromoethane  
 Concen: 0.42 ppbv  
 RT: 12.11 min Scan# 1480  
 Delta R.T. -0.01 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

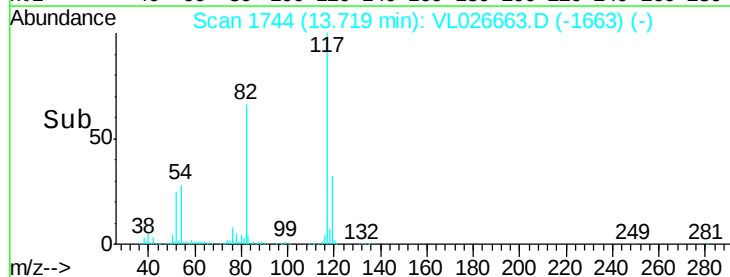
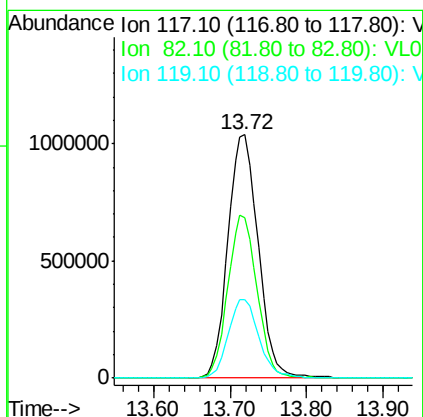
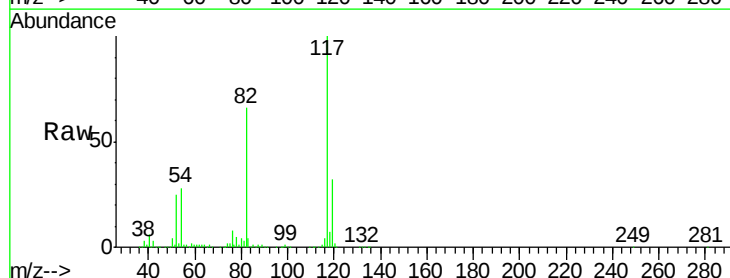
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-5

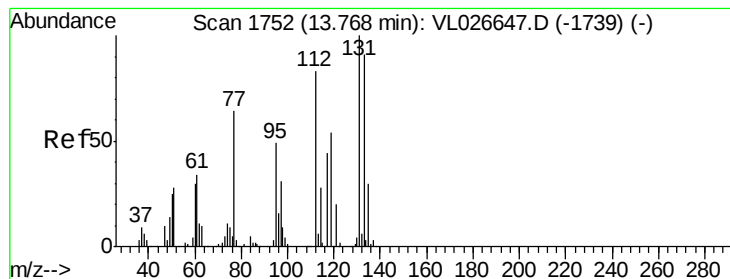
Tot Ion:107 Resp: 69616  
 Ion Ratio Lower Upper  
 107 100  
 109 84.6 74.1 111.1



#55  
 Chlorobenzene-d5  
 Concen: 10.00 ppbv  
 RT: 13.72 min Scan# 1744  
 Delta R.T. -0.01 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

Tgt Ion:117 Resp: 2849825  
 Ion Ratio Lower Upper  
 117 100  
 82 65.0 49.7 74.5  
 119 33.0 43.8 65.8#





#56

1,1,1,2-Tetrachloroethane

Concen: 0.44 ppbv

RT: 13.76 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

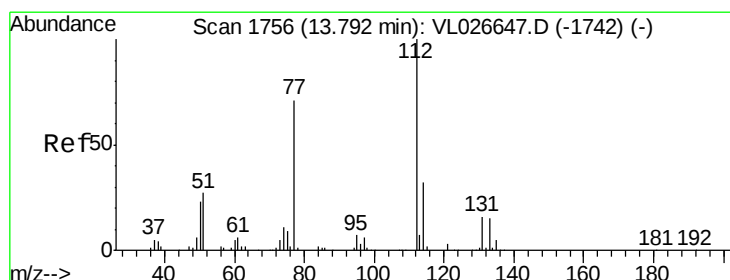
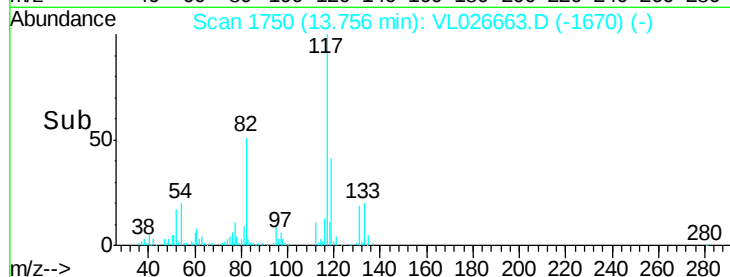
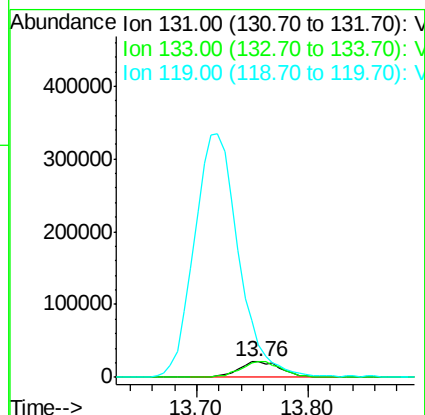
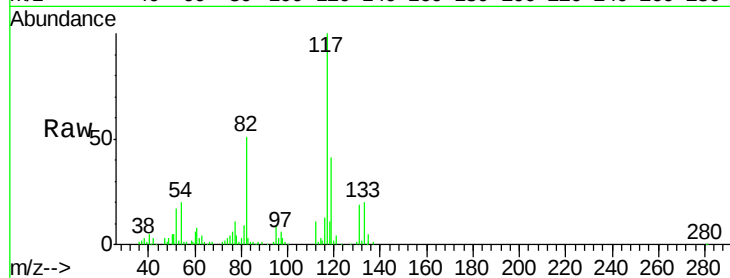
Tot Ion:131 Resp: 57386

Ion Ratio Lower Upper

131 100

133 97.3 76.2 114.4

119 1632.0 104.3 156.5#



#57

Chlorobenzene

Concen: 0.46 ppbv

RT: 13.78 min Scan# 1754

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

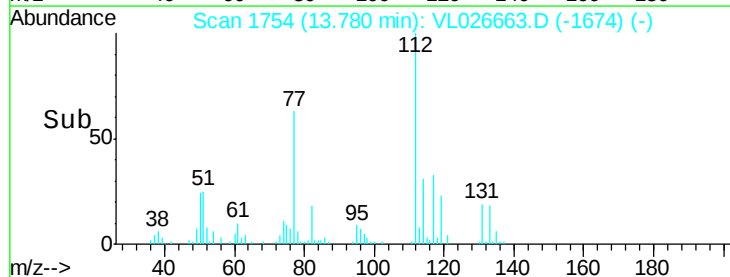
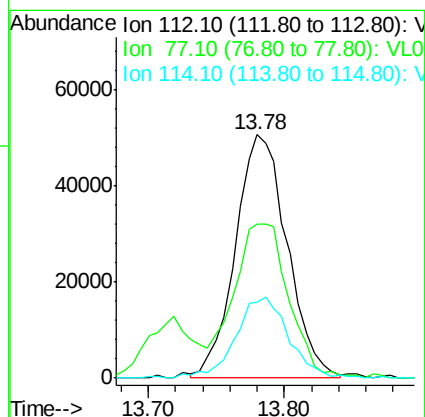
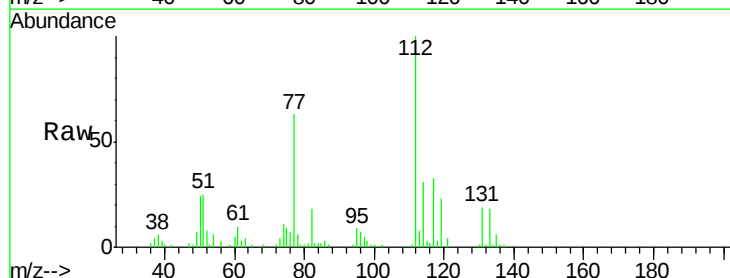
Tgt Ion:112 Resp: 134474

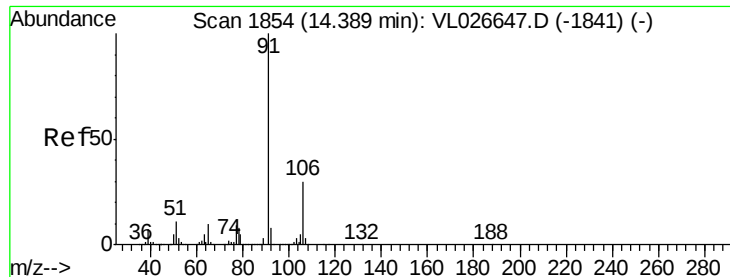
Ion Ratio Lower Upper

112 100

77 62.8 56.9 85.3

114 30.3 28.8 35.2





#58

Ethyl Benzene

Concen: 0.32 ppbv

RT: 14.38 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

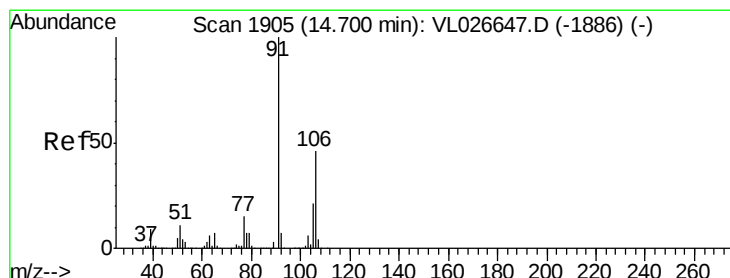
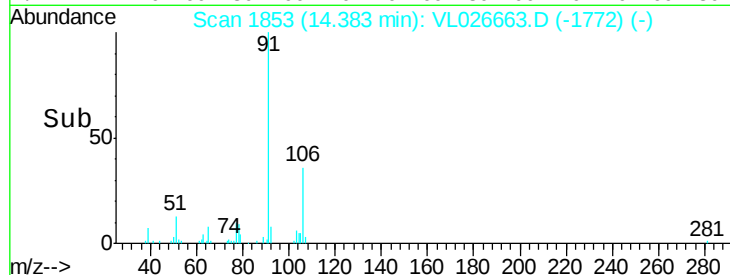
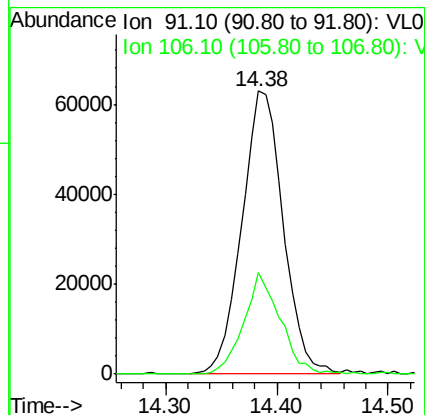
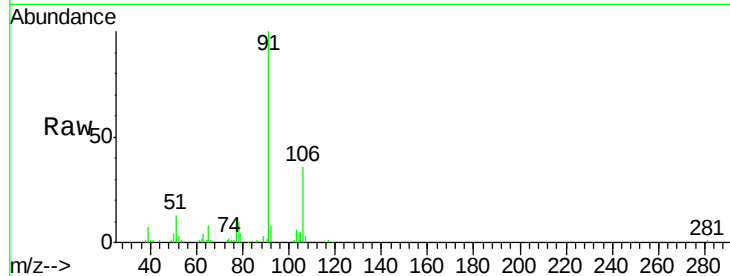
MDL-AIR-5

Tot Ion: 91 Resp: 162857

Ion Ratio Lower Upper

91 100

106 35.8 23.8 35.6#



#59

m/p-Xylene

Concen: 0.76 ppbv

RT: 14.69 min Scan# 1904

Delta R.T. -0.01 min

Lab File: VL026663.D

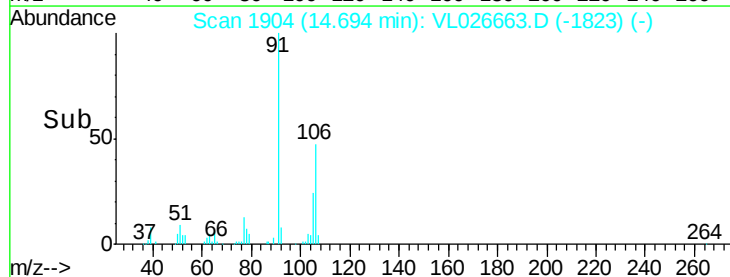
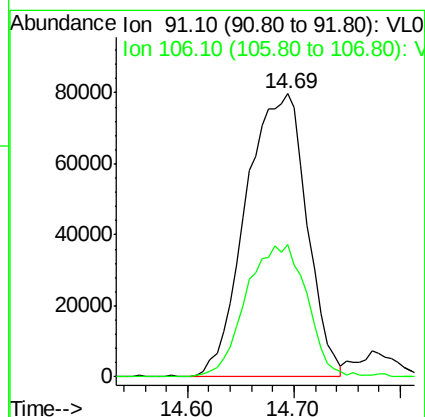
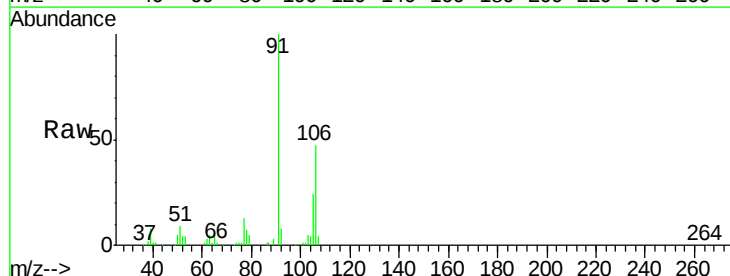
Acq: 9 Jan 2016 6:25

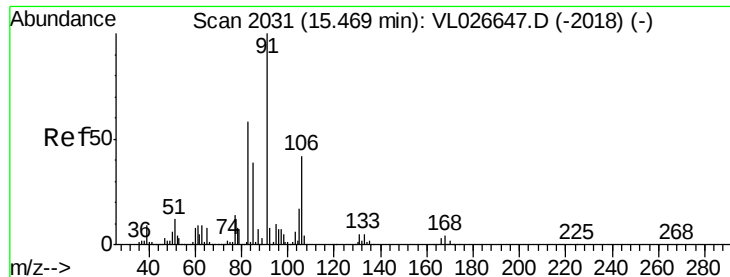
Tgt Ion: 91 Resp: 317002

Ion Ratio Lower Upper

91 100

106 46.8 36.6 55.0





#60

o-Xylene

Concen: 0.42 ppbv

RT: 15.46 min Scan# 2029

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

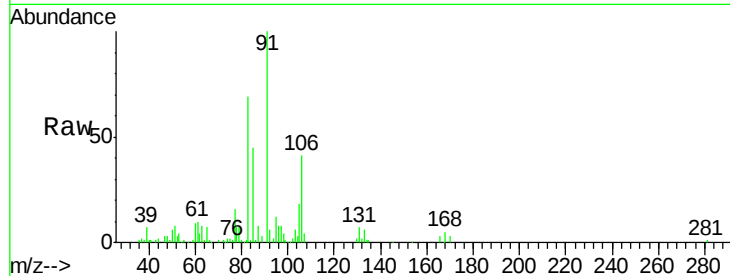
MDL-AIR-5

Tot Ion: 91 Resp: 188462

Ion Ratio Lower Upper

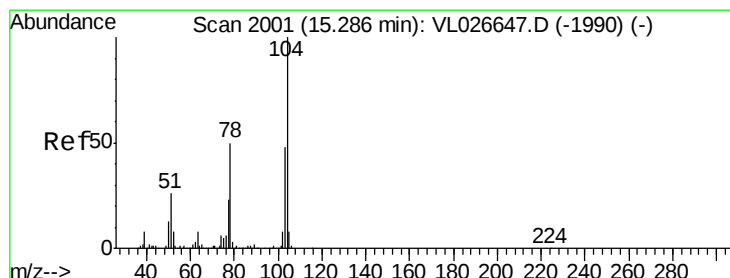
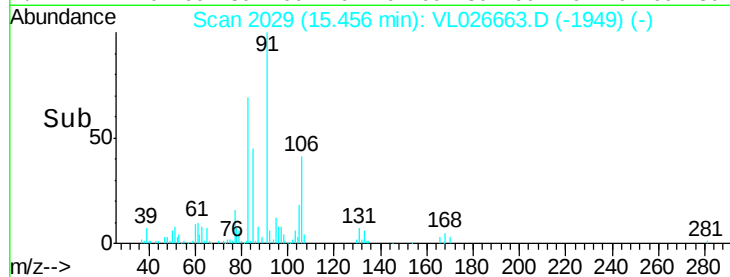
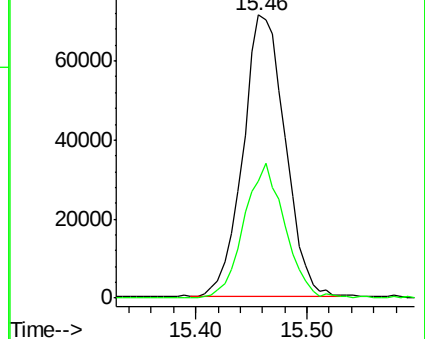
91 100

106 46.3 21.5 64.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): VL0



#61

Styrene

Concen: 0.30 ppbv

RT: 15.29 min Scan# 2002

Delta R.T. 0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

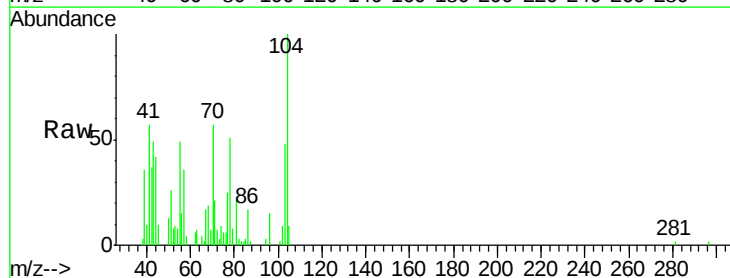
Tgt Ion: 104 Resp: 53372

Ion Ratio Lower Upper

104 100

78 49.6 39.6 59.4

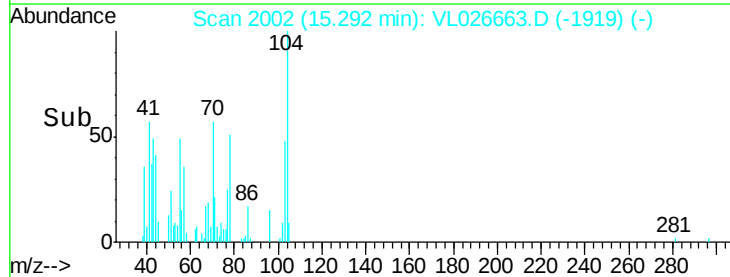
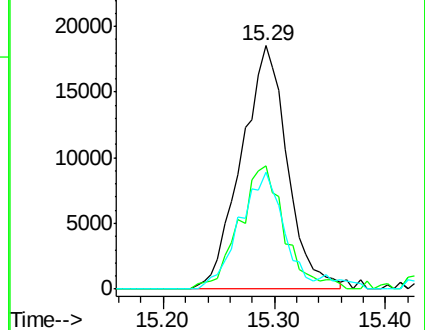
103 48.9 37.8 56.6

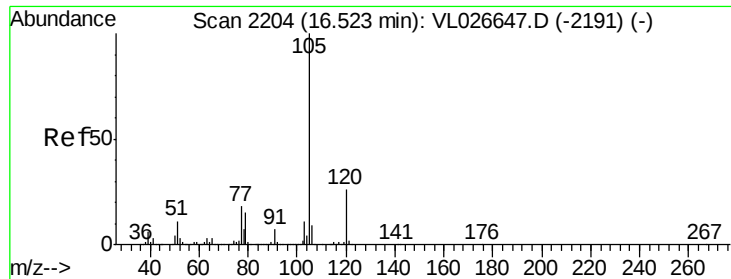


Abundance Ion 104.10 (103.80 to 104.80): VL0

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): VL0





#62

Isopropylbenzene

Concen: 0.40 ppbv

RT: 16.52 min Scan# 2203

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

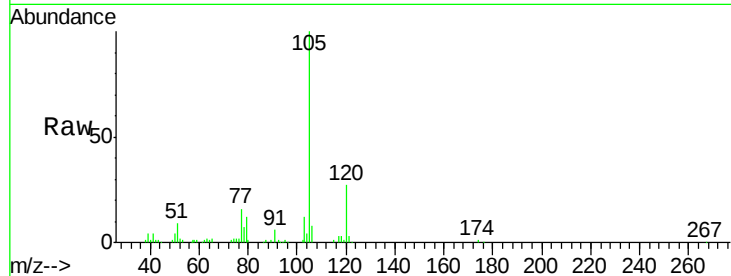
MDL-AIR-5

Tot Ion:105 Resp: 238216

Ion Ratio Lower Upper

105 100

120 27.2 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.52

100000

80000

60000

40000

20000

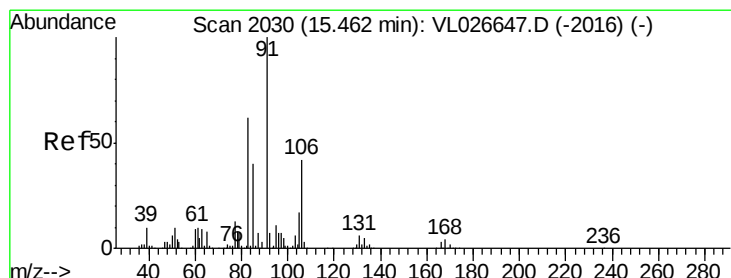
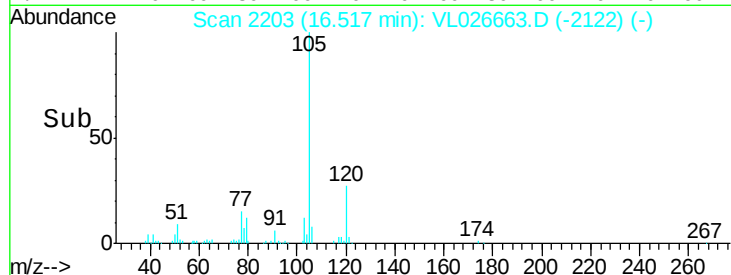
0

Time-->

16.40

16.50

16.60



#63

1,1,2,2-Tetrachloroethane

Concen: 0.44 ppbv

RT: 15.46 min Scan# 2029

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

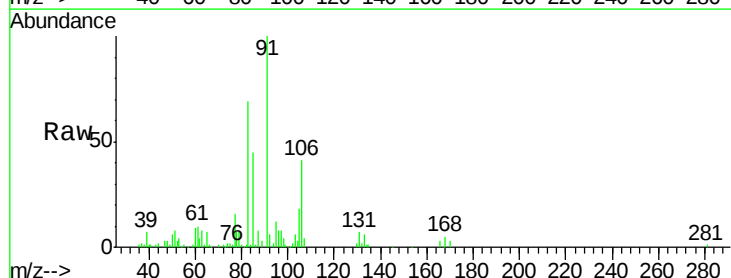
Tgt Ion: 83 Resp: 149454

Ion Ratio Lower Upper

83 100

131 8.6 4.5 13.4

85 63.1 32.6 97.7



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

15.46

60000

40000

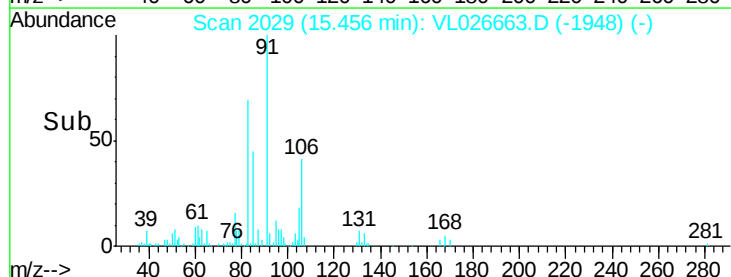
20000

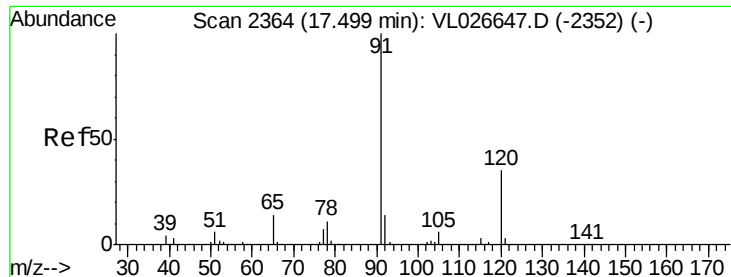
0

Time-->

15.40

15.50





#64

n-propylbenzene

Concen: 0.39 ppbv

RT: 17.49 min Scan# 2363

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

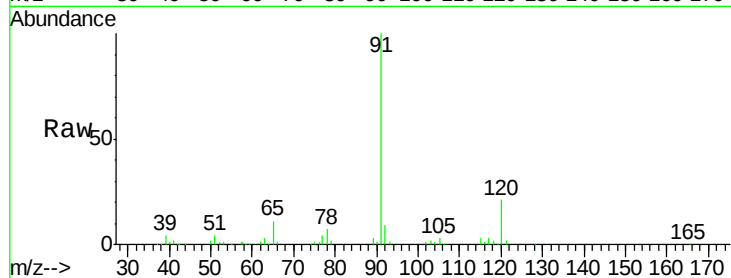
MDL-AIR-5

Tot Ion:120 Resp: 63046

Ion Ratio Lower Upper

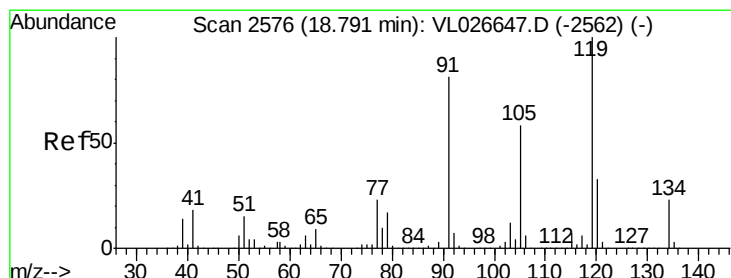
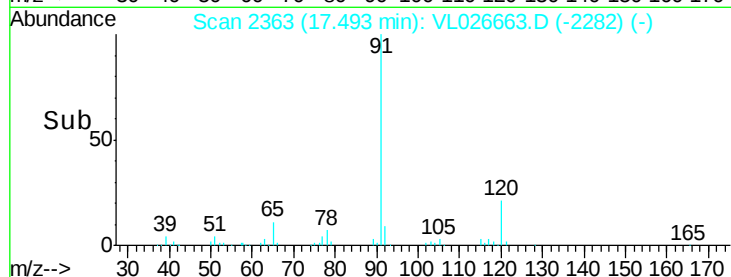
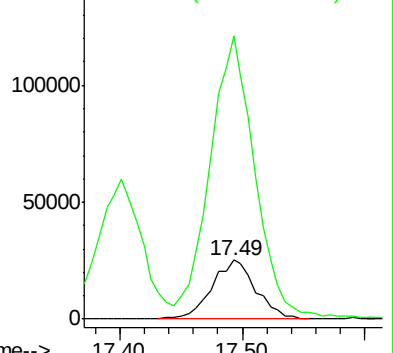
120 100

91 491.6 375.8 563.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.41 ppbv

RT: 18.79 min Scan# 2575

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

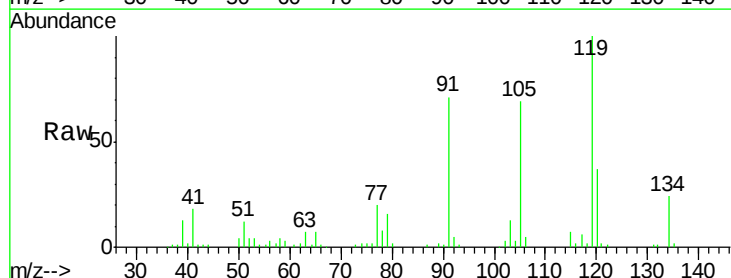
Tgt Ion:119 Resp: 227574

Ion Ratio Lower Upper

119 100

91 75.0 64.8 97.2

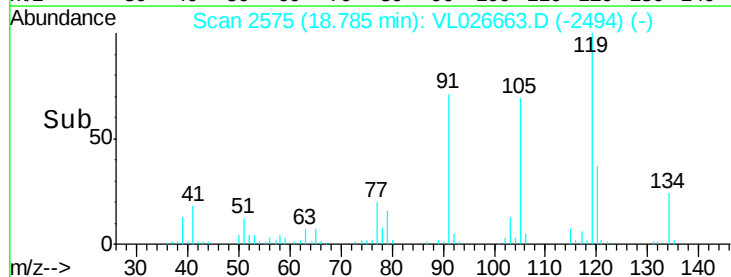
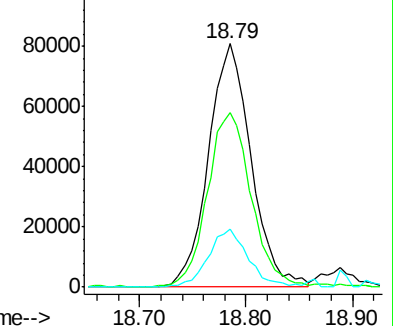
134 22.9 17.4 26.0

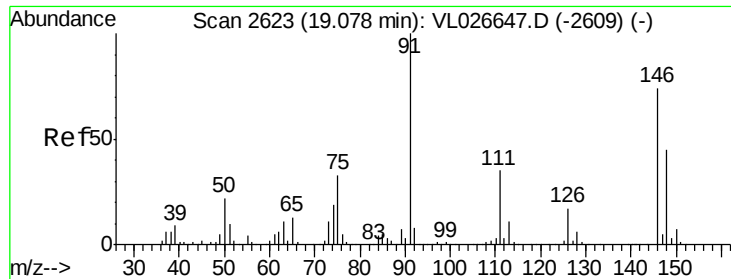


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

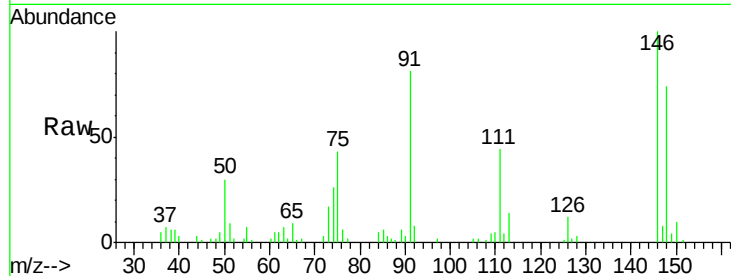




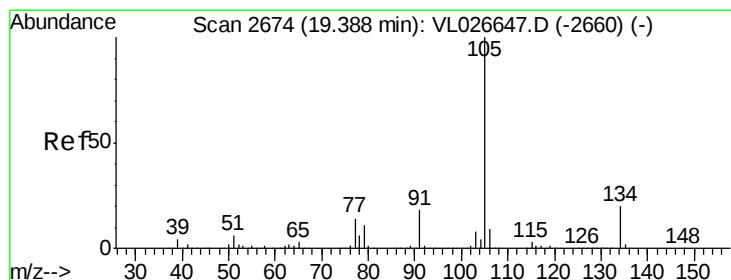
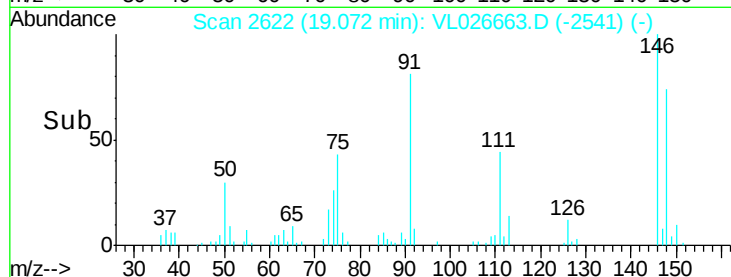
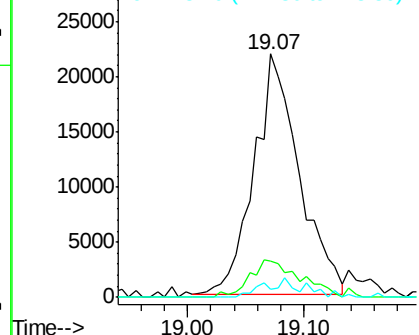
#66  
Benzyl Chloride  
Concen: 0.30 ppbv  
RT: 19.07 min Scan# 2622  
Delta R.T. -0.01 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-5

Tot Ion: 91 Resp: 58425  
Ion Ratio Lower Upper  
91 100  
126 18.2 14.2 21.2  
128 7.3 4.5 6.7#

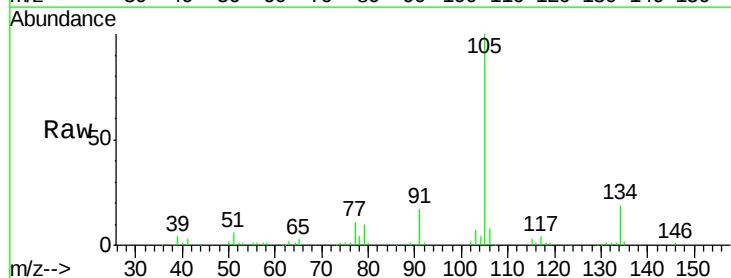


Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 126.10 (125.80 to 126.80): V  
Ion 128.10 (127.80 to 128.80): V

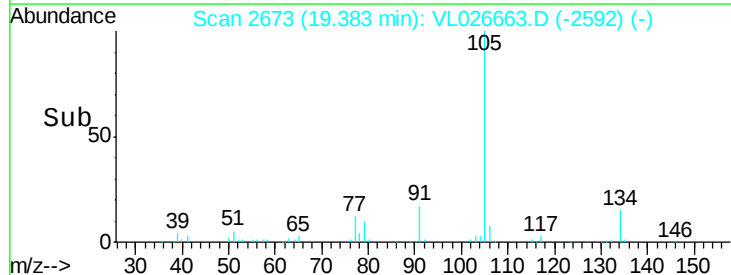
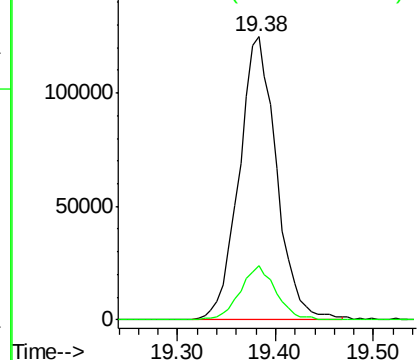


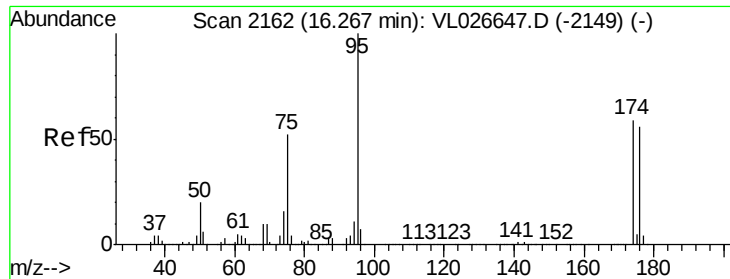
#67  
sec-Butylbenzene  
Concen: 0.40 ppbv  
RT: 19.38 min Scan# 2673  
Delta R.T. -0.01 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Tgt Ion: 105 Resp: 330269  
Ion Ratio Lower Upper  
105 100  
134 18.3 14.9 22.3



Abundance Ion 105.10 (104.80 to 105.80): V  
Ion 134.20 (133.90 to 134.90): V

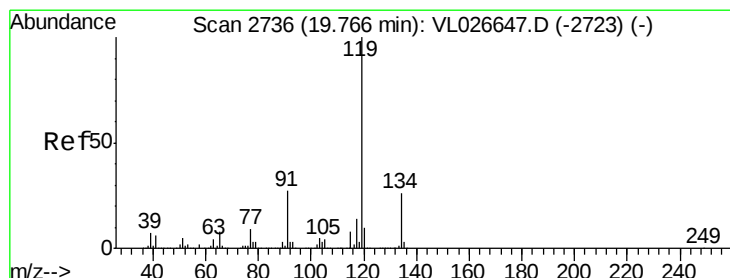
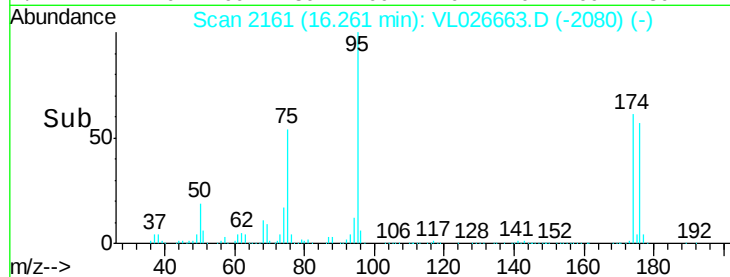
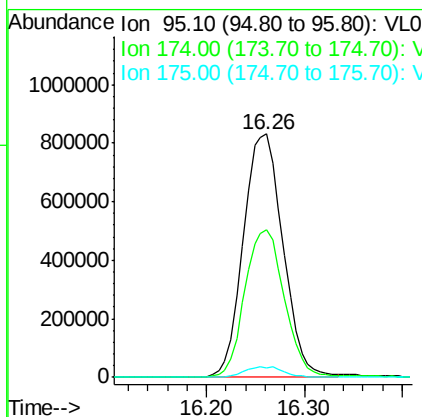
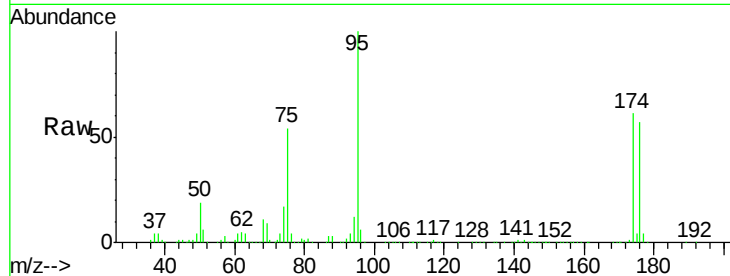




#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.31 ppbv  
 RT: 16.26 min Scan# 2161  
 Delta R.T. -0.01 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

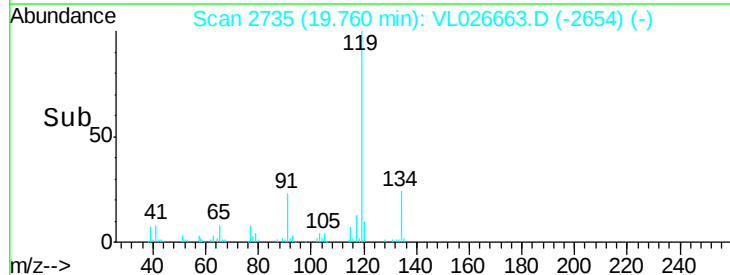
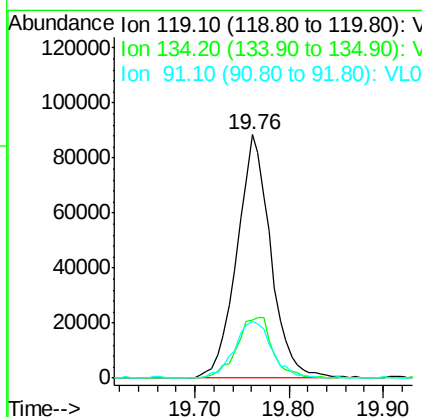
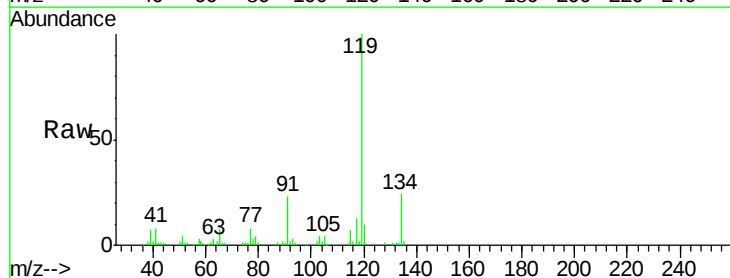
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-5

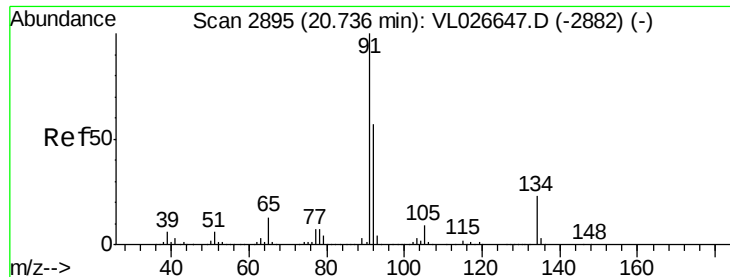
Tot Ion: 95 Resp: 2341412  
 Ion Ratio Lower Upper  
 95 100  
 174 61.5 47.8 71.8  
 175 4.4 3.6 5.4



#69  
 p-Isopropyltoluene  
 Concen: 0.36 ppbv  
 RT: 19.76 min Scan# 2735  
 Delta R.T. -0.01 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

Tgt Ion: 119 Resp: 222050  
 Ion Ratio Lower Upper  
 119 100  
 134 26.3 20.6 31.0  
 91 26.3 21.7 32.5

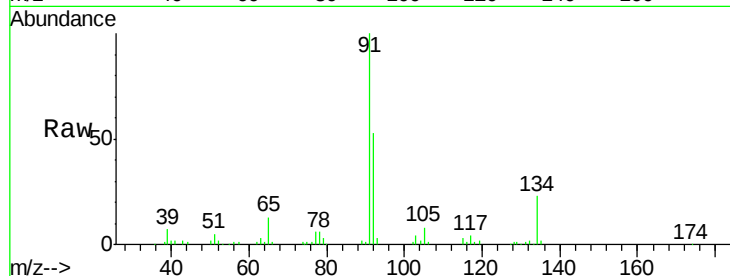




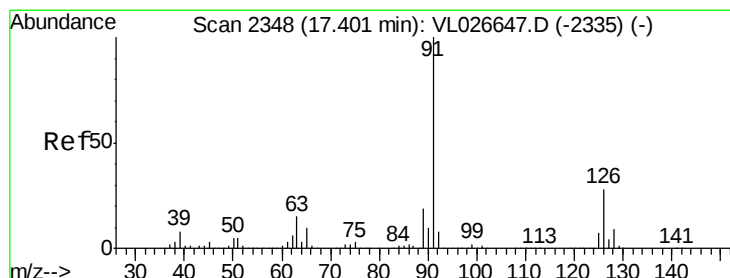
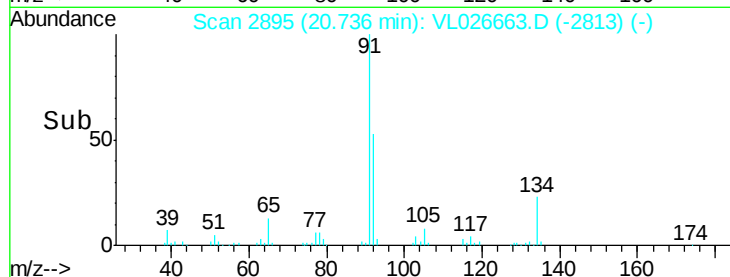
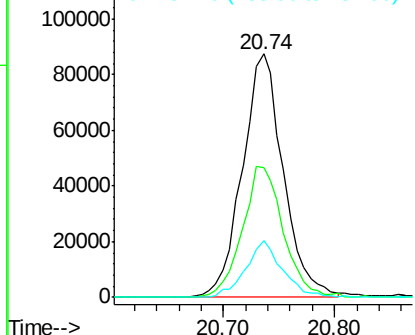
#70  
n-Butylbenzene  
Concen: 0.34 ppbv  
RT: 20.74 min Scan# 2895  
Delta R.T. 0.00 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-5

Tot Ion: 91 Resp: 223683  
Ion Ratio Lower Upper  
91 100  
92 54.0 45.0 67.4  
134 20.9 18.2 27.2

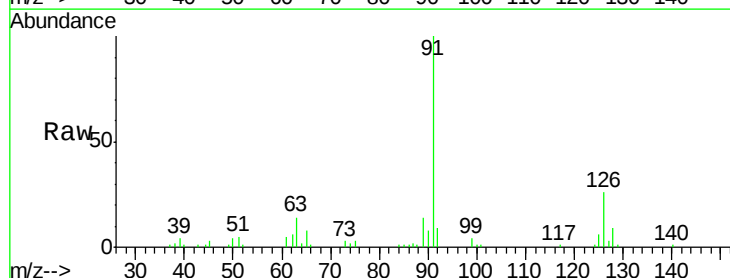


Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 92.10 (91.80 to 92.80): VL0  
Ion 134.20 (133.90 to 134.90): V

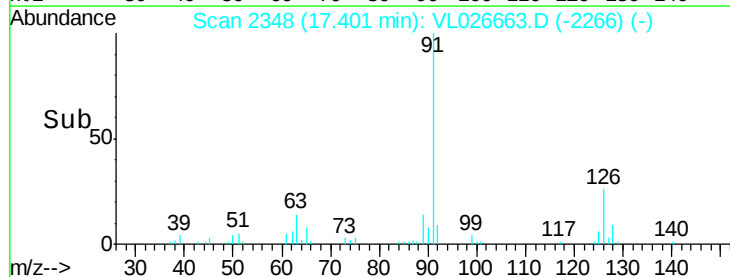
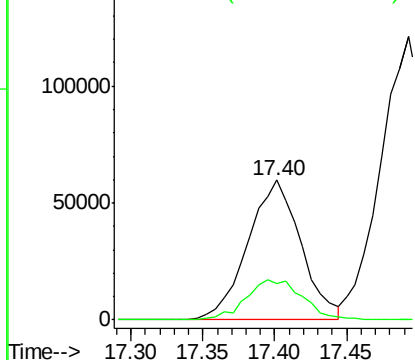


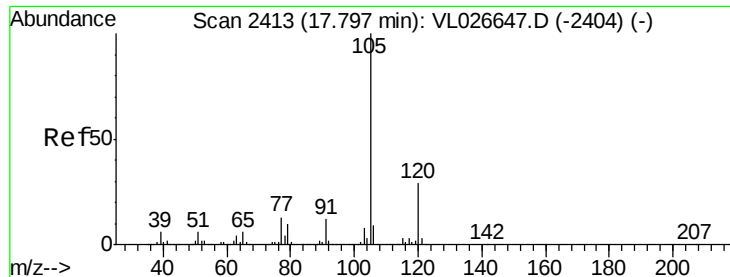
#71  
2-Chlorotoluene  
Concen: 0.33 ppbv  
RT: 17.40 min Scan# 2348  
Delta R.T. 0.00 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Tgt Ion: 91 Resp: 152399  
Ion Ratio Lower Upper  
91 100  
126 31.4 11.4 45.8



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.34 ppbv

RT: 17.79 min Scan# 2412

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

Tot Ion:105 Resp: 169921

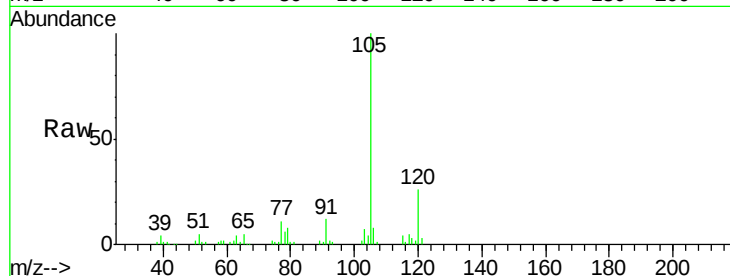
Ion Ratio Lower Upper

105 100

120 30.4 23.7 35.5

91 14.3 9.7 14.5

77 13.2 10.3 15.5

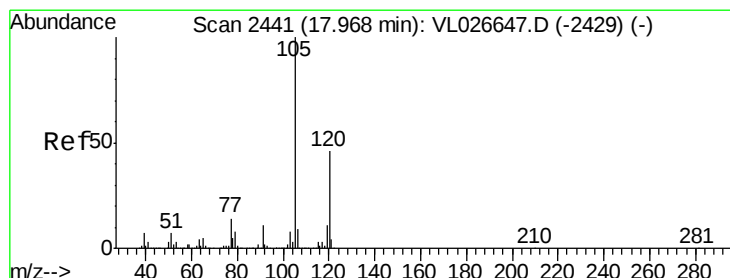
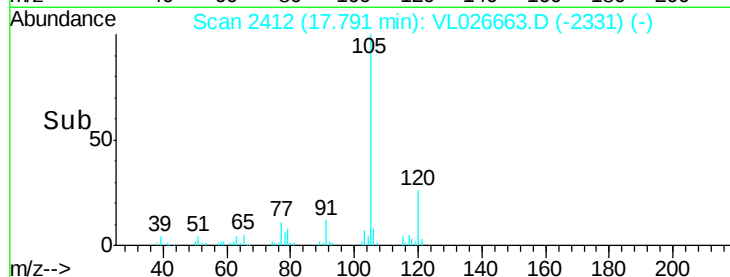
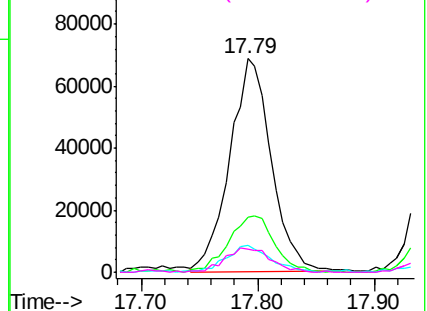


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.37 ppbv

RT: 17.96 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL026663.D

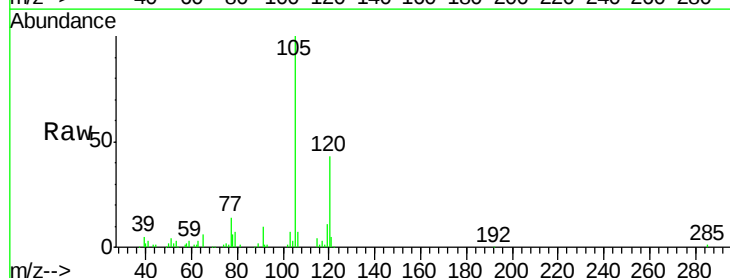
Acq: 9 Jan 2016 6:25

Tgt Ion:105 Resp: 176100

Ion Ratio Lower Upper

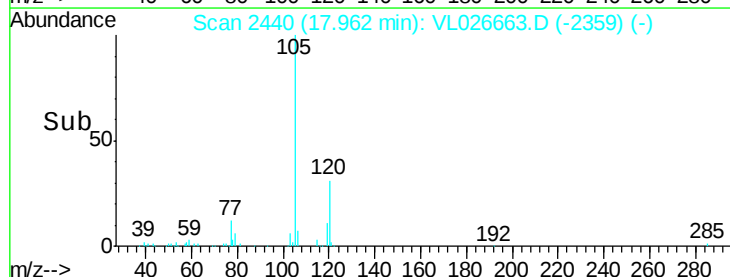
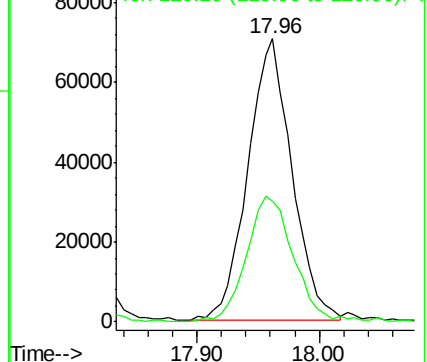
105 100

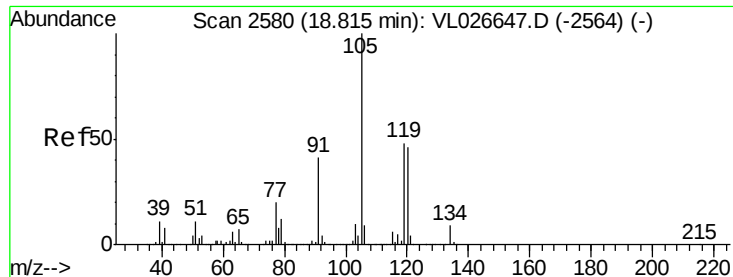
120 42.8 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

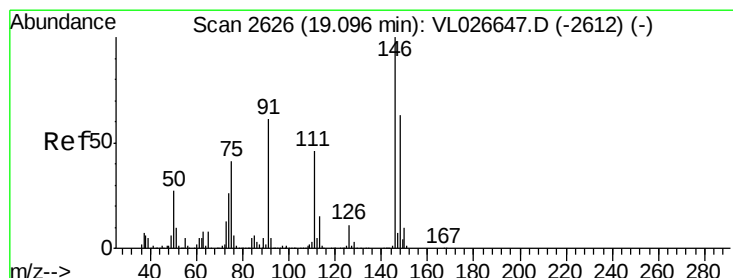
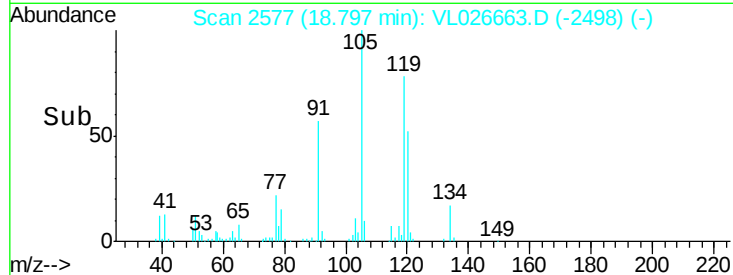
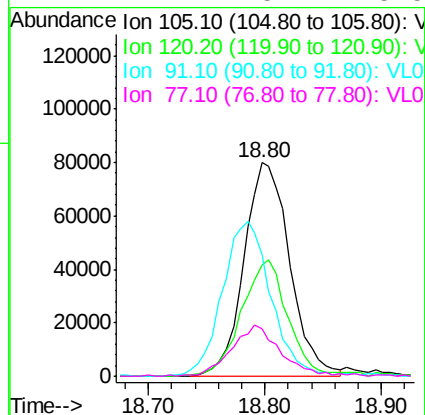
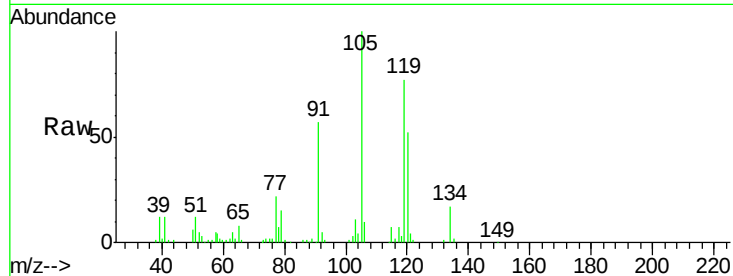




#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.43 ppbv  
 RT: 18.80 min Scan# 2577  
 Delta R.T. -0.02 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

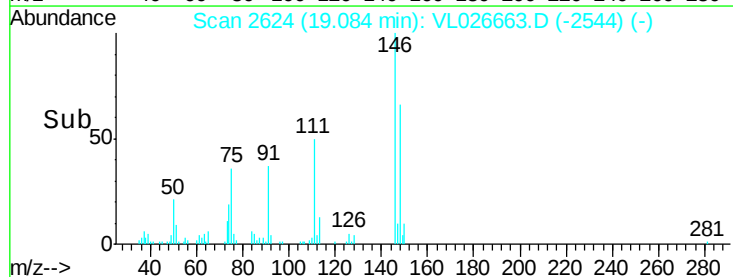
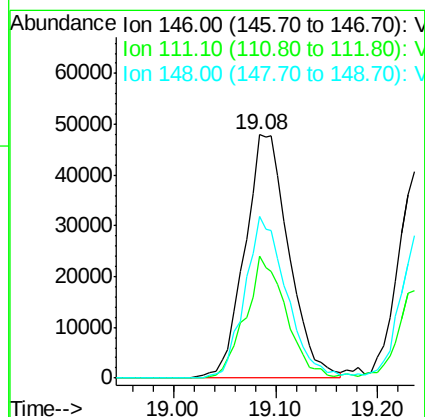
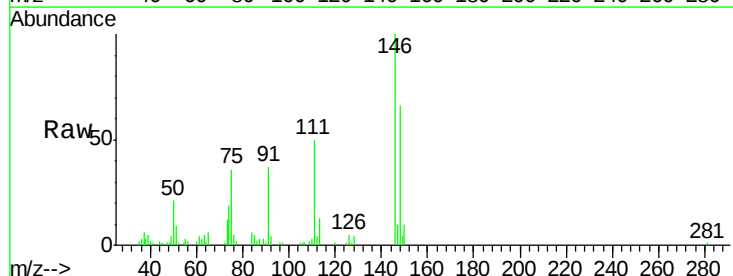
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 MDL-AIR-5

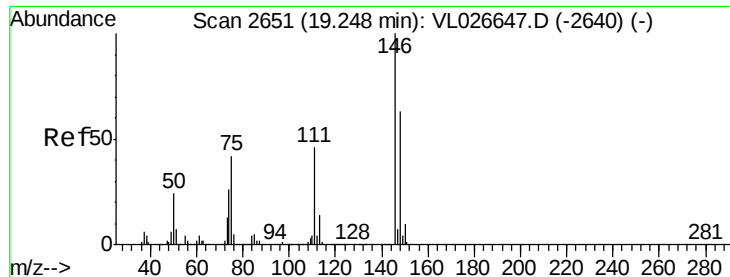
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 105   | Resp: | 219456 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 51.6  | 36.6  | 55.0   |
| 91       | 56.0  | 32.5  | 48.7   |
| 77       | 21.4  | 15.7  | 23.5   |



#75  
 1,3-Dichlorobenzene  
 Concen: 0.46 ppbv  
 RT: 19.08 min Scan# 2624  
 Delta R.T. -0.01 min  
 Lab File: VL026663.D  
 Acq: 9 Jan 2016 6:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 143803 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 45.9  | 22.9  | 68.5   |
| 148      | 62.9  | 31.6  | 95.0   |





#76

1,4-Dichlorobenzene

Concen: 0.43 ppbv

RT: 19.25 min Scan# 2651

Delta R.T. 0.00 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

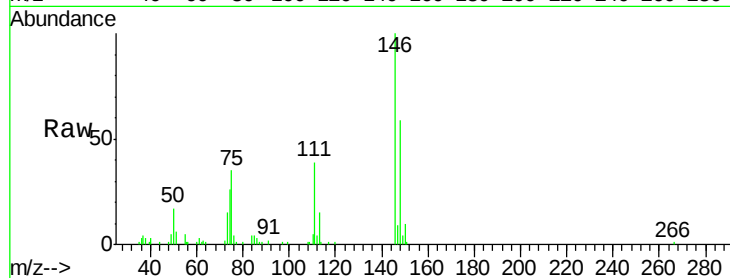
Tot Ion:146 Resp: 138636

Ion Ratio Lower Upper

146 100

111 43.2 22.3 66.8

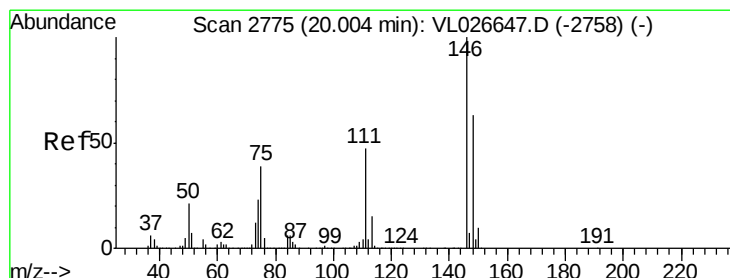
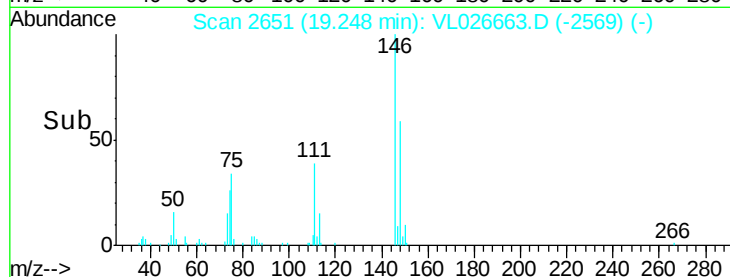
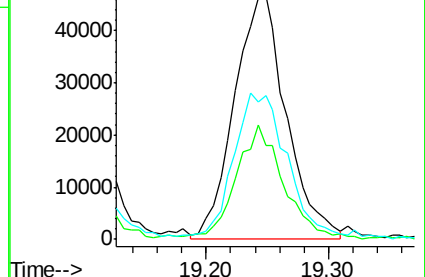
148 63.9 31.9 95.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 0.42 ppbv

RT: 20.00 min Scan# 2775

Delta R.T. 0.00 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

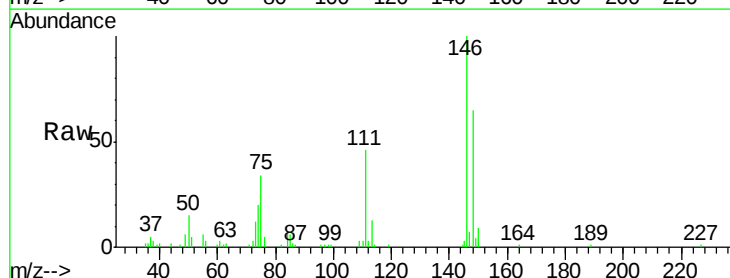
Tgt Ion:146 Resp: 132851

Ion Ratio Lower Upper

146 100

111 49.1 23.7 71.1

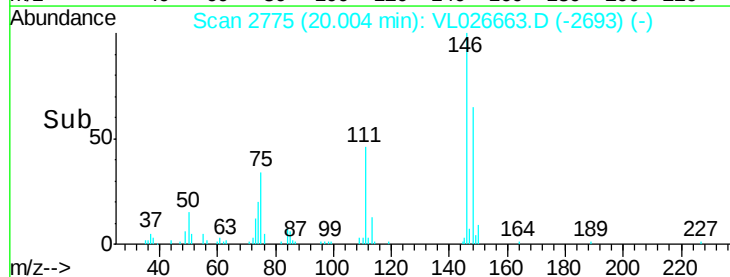
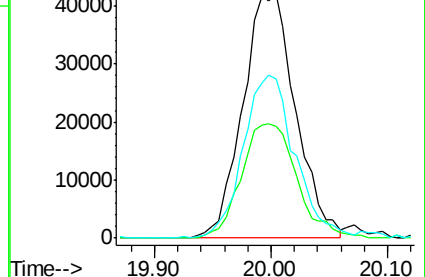
148 66.9 31.1 93.5

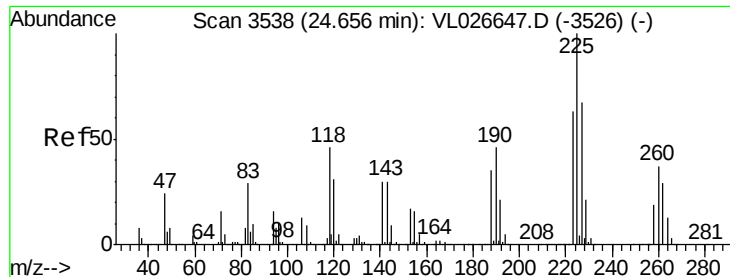


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.42 ppbv

RT: 24.64 min Scan# 3536

Delta R.T. -0.01 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

Instrument :

MSVOA\_L

ClientSampleId :

MDL-AIR-5

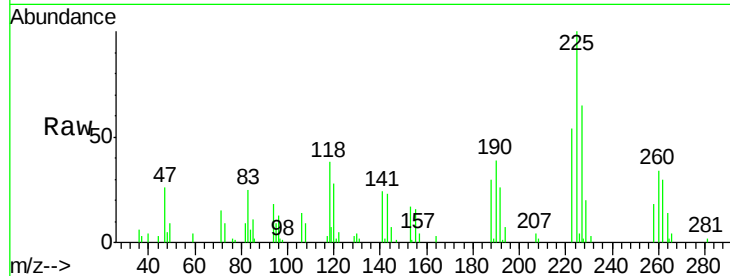
Tot Ion:225 Resp: 54833

Ion Ratio Lower Upper

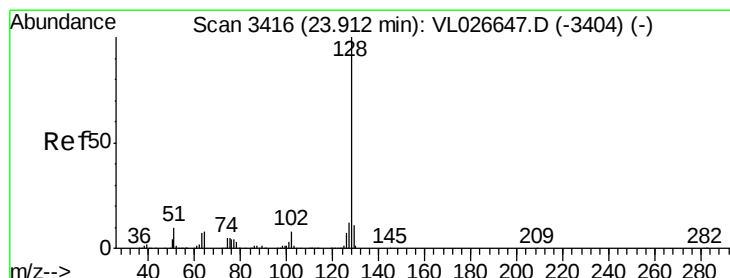
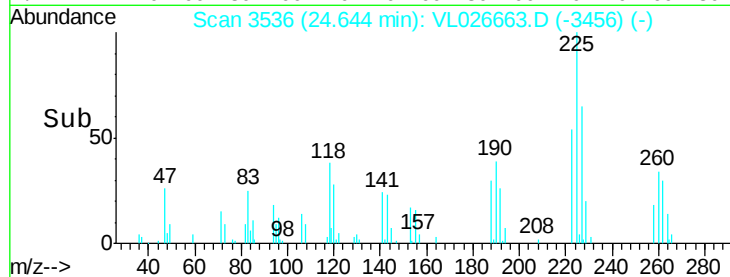
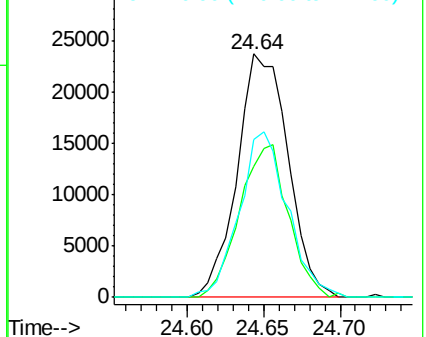
225 100

223 60.1 50.1 75.1

227 64.3 51.1 76.7



Abundance Ion 224.90 (224.60 to 225.60): V  
Ion 222.90 (222.60 to 223.60): V  
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.25 ppbv

RT: 23.91 min Scan# 3416

Delta R.T. 0.00 min

Lab File: VL026663.D

Acq: 9 Jan 2016 6:25

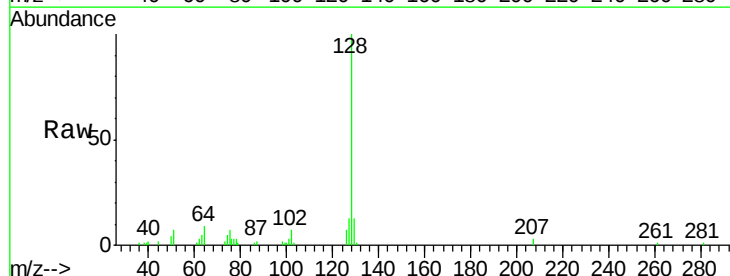
Tgt Ion:128 Resp: 86098

Ion Ratio Lower Upper

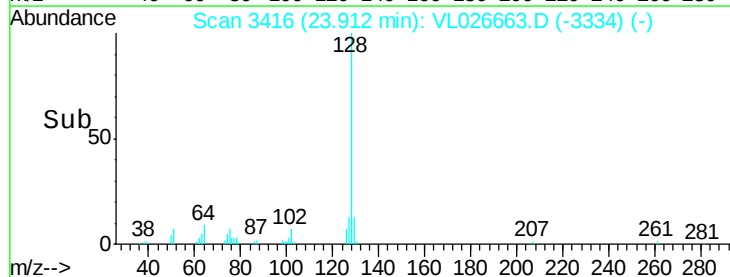
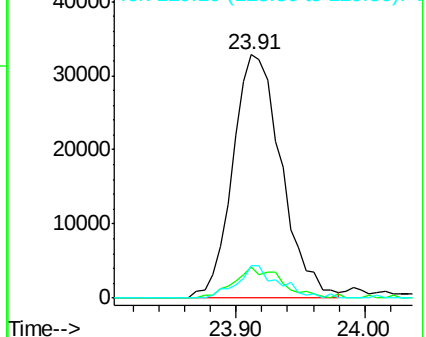
128 100

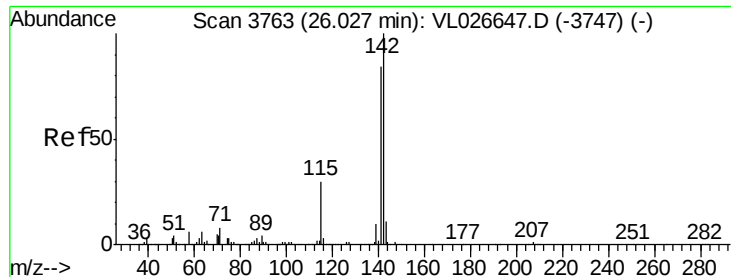
127 12.9 9.8 14.8

129 13.3 8.9 13.3#



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

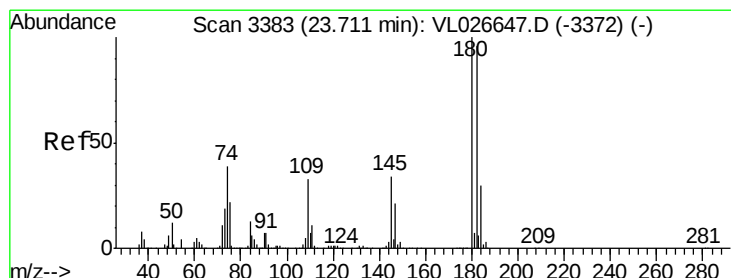
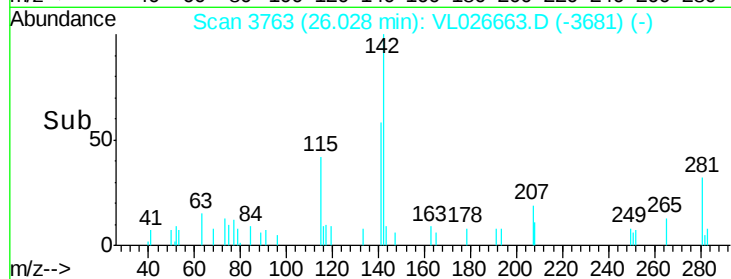
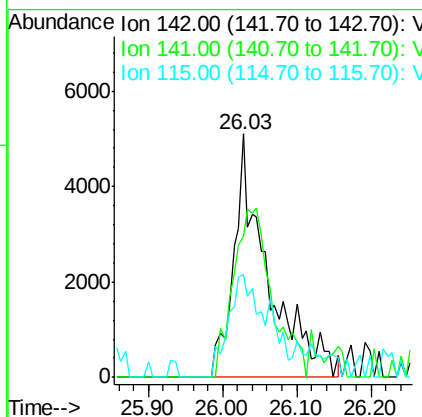
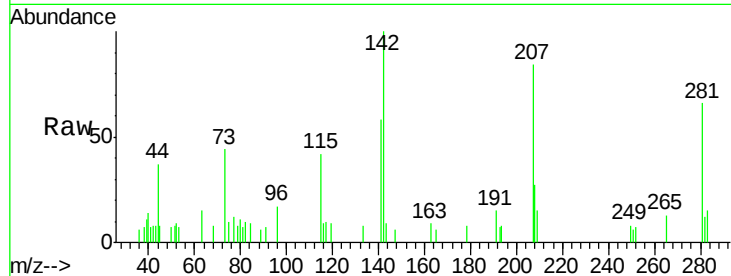




#80  
Naphthalene, 2-methyl-  
Concen: 0.30 ppbv  
RT: 26.03 min Scan# 3763  
Delta R.T. 0.00 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Instrument :  
MSVOA\_L  
ClientSampleId :  
MDL-AIR-5

Tot Ion:142 Resp: 16217  
Ion Ratio Lower Upper  
142 100  
141 89.4 67.0 100.6  
115 63.1 24.7 37.1#



#81  
1,2,4-Trichlorobenzene  
Concen: 0.31 ppbv  
RT: 23.71 min Scan# 3383  
Delta R.T. 0.00 min  
Lab File: VL026663.D  
Acq: 9 Jan 2016 6:25

Tgt Ion:180 Resp: 48687  
Ion Ratio Lower Upper  
180 100  
182 101.6 75.4 113.0  
184 28.7 24.1 36.1

