

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102015\  
 Data File : VL026221.D  
 Acq On : 21 Oct 2015 1:02  
 Operator : SY/MD  
 Sample : G3973-03DL 600X  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SS-3DL

Quant Time: Oct 21 15:08:36 2015  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102015AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Oct 21 01:20:55 2015  
 QLast Update : Wed Oct 21 01:20:55 2015  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 6.63  | 49   | 474621   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 8.32  | 114  | 1476262  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 13.73 | 117  | 1865768  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 16.27  | 95    | 1687541  | 11.73    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 117.30% |

| Target Compounds              | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chlorodifluoromethane      | 3.56  | 51   | 40304    | 0.67   | ppbv   | 99     |
| 4) Chloromethane              | 3.81  | 50   | 4183     | 0.13   | ppbv # | 78     |
| 7) Chloroethane               | 4.59  | 64   | 1943     | 0.14   | ppbv # | 1      |
| 9) Propene                    | 3.81  | 41   | 155987   | 5.55   | ppbv   | 97     |
| 10) Heptane                   | 9.37  | 43   | 7415010  | 78.73  | ppbv   | 98     |
| 13) Ethanol                   | 4.37  | 45   | 3305     | 0.78   | ppbv   | 75     |
| 15) Acetone                   | 4.59  | 43   | 8585113  | 122.88 | ppbv # | 55     |
| 16) 1,3-Butadiene             | 3.93  | 39   | 8717     | 0.28   | ppbv # | 7      |
| 17) tert-Butyl alcohol        | 5.21  | 59   | 3533     | 0.07   | ppbv # | 72     |
| 19) Isopropyl Alcohol         | 4.82  | 45   | 3228     | 0.12   | ppbv # | 27     |
| 20) Methylene Chloride        | 5.14  | 84   | 1977     | 0.07   | ppbv # | 4      |
| 21) Allyl Chloride            | 5.17  | 41   | 837740   | 18.36  | ppbv # | 53     |
| 23) Vinyl Acetate             | 5.95  | 43   | 4960533  | 38.51  | ppbv # | 1      |
| 24) 1,1-Dichloroethane        | 5.96  | 63   | 36318    | 0.45   | ppbv # | 85     |
| 25) Ethyl Acetate             | 6.67  | 43   | 6771640  | 51.70  | ppbv # | 76     |
| 26) Hexane                    | 6.67  | 57   | 9532325  | 145.62 | ppbv # | 46     |
| 29) Chloroform                | 7.13  | 83   | 2050     | 0.02   | ppbv   | 90     |
| 30) Cyclohexane               | 8.29  | 84   | 3862664  | 59.00  | ppbv   | 96     |
| 34) 2-Butanone                | 6.31  | 43   | 2877982  | 34.49  | ppbv # | 53     |
| 36) Benzene                   | 8.01  | 78   | 495836   | 3.30   | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 7.38  | 62   | 39944    | 0.52   | ppbv # | 90     |
| 38) Trichloroethene           | 9.06  | 130  | 7871     | 0.11   | ppbv # | 69     |
| 39) 1,2-Dichloropropane       | 8.77  | 63   | 1608     | 0.03   | ppbv # | 1      |
| 41) Tetrahydrofuran           | 7.14  | 42   | 179425   | 3.71   | ppbv # | 34     |
| 42) Bromodichloromethane      | 9.01  | 83   | 838902   | 7.55   | ppbv # | 26     |
| 43) Methyl Methacrylate       | 9.21  | 69   | 367564   | 6.72   | ppbv # | 42     |
| 44) 2,2,4-Trimethylpentane    | 9.09  | 57   | 1852498  | 7.61   | ppbv # | 1      |
| 47) 1,1,2-Trichloroethane     | 10.90 | 97   | 2386     | 0.04   | ppbv # | 18     |
| 50) 4-Methyl-2-Pentanone      | 10.07 | 43   | 177547   | 1.58   | ppbv # | 85     |
| 51) 2-Hexanone                | 11.65 | 43   | 326729   | 3.11   | ppbv # | 25     |
| 53) Toluene                   | 11.23 | 91   | 157913   | 0.77   | ppbv   | 93     |
| 57) Chlorobenzene             | 13.83 | 112  | 259633   | 1.45   | ppbv # | 45     |
| 58) Ethyl Benzene             | 14.40 | 91   | 242715   | 0.80   | ppbv   | 97     |
| 59) m/p-Xylene                | 14.71 | 91   | 241905   | 1.02   | ppbv   | 93     |
| 60) o-Xylene                  | 15.47 | 91   | 29065    | 0.12   | ppbv   | 90     |
| 61) Styrene                   | 15.29 | 104  | 13546    | 0.12   | ppbv # | 84     |
| 62) Isopropylbenzene          | 16.52 | 105  | 86788    | 0.25   | ppbv   | 99     |
| 63) 1,1,2,2-Tetrachloroethane | 15.46 | 83   | 73076    | 0.45   | ppbv # | 25     |
| 64) n-propylbenzene           | 17.49 | 120  | 20476    | 0.22   | ppbv   | 77     |
| 65) tert-Butylbenzene         | 18.80 | 119  | 44448    | 0.14   | ppbv # | 77     |
| 67) sec-Butylbenzene          | 19.38 | 105  | 27680    | 0.06   | ppbv   | 100    |

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SS-3DL

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Oct 21 01:20:55 2015  
QLast Update : Wed Oct 21 01:20:55 2015  
Response via : Initial Calibration

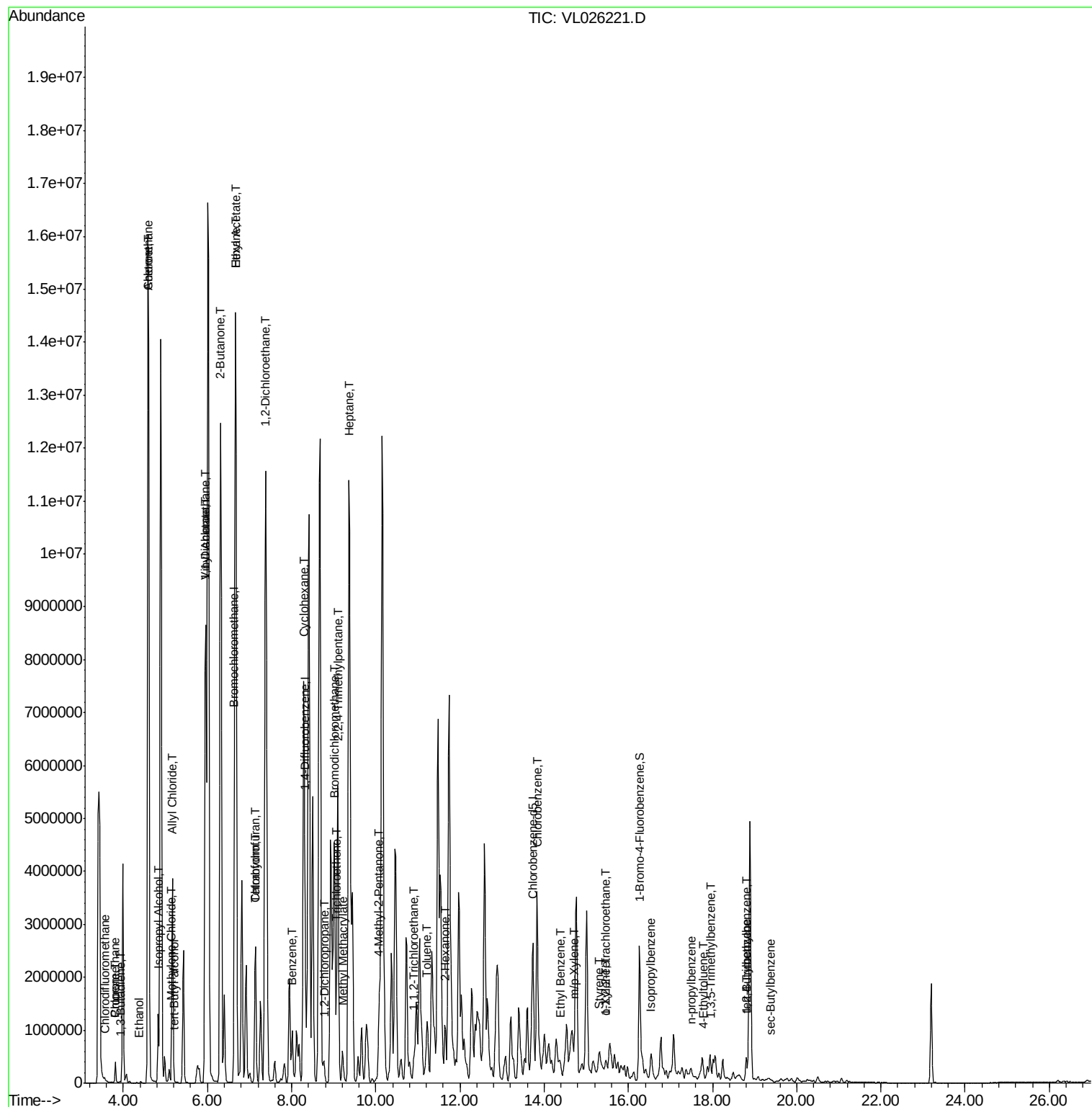
| Internal Standards         | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|----------------------------|-------|------|----------|------|--------|----------|
| 72) 4-Ethyltoluene         | 17.80 | 105  | 24565    | 0.09 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene | 17.96 | 105  | 22474    | 0.08 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene | 18.80 | 105  | 352098   | 1.27 | ppbv # | 72       |

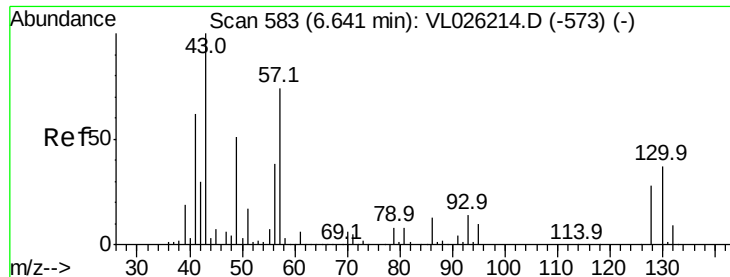
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.63 min Scan# 582

Delta R.T. -0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

SS-3DL

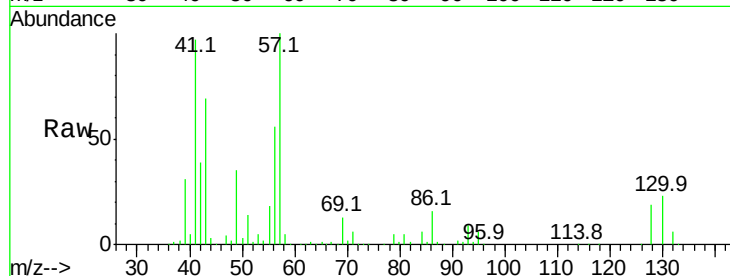
Tot Ion: 49 Resp: 474621

Ion Ratio Lower Upper

49 100

128 51.9 28.2 84.7

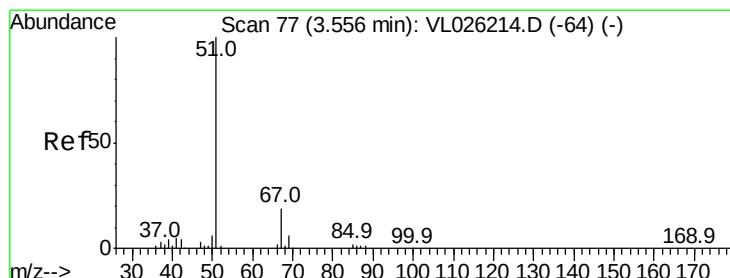
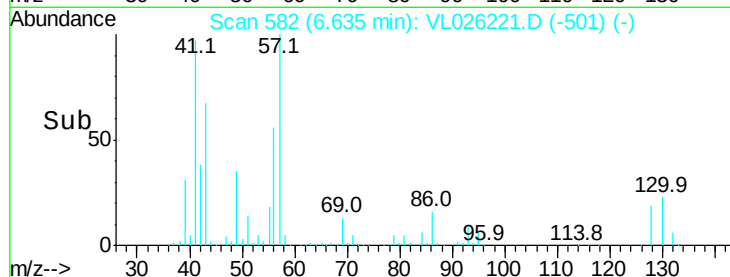
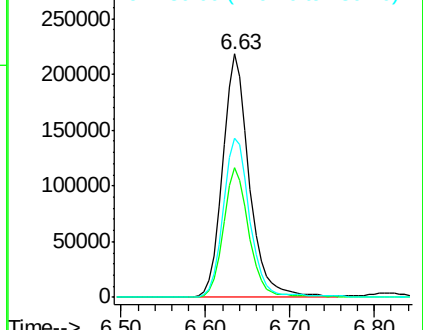
130 66.4 36.0 108.1



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



#3

Chlorodifluoromethane

Concen: 0.67 ppbv

RT: 3.56 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL026221.D

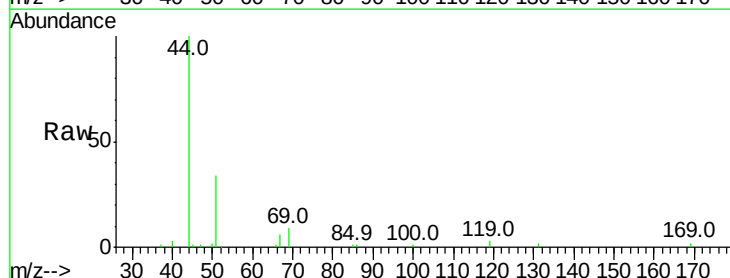
Acq: 21 Oct 2015 1:02

Tgt Ion: 51 Resp: 40304

Ion Ratio Lower Upper

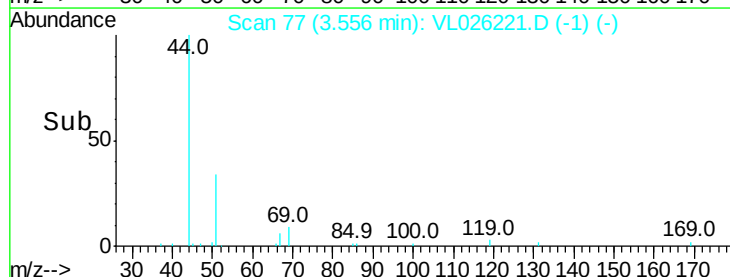
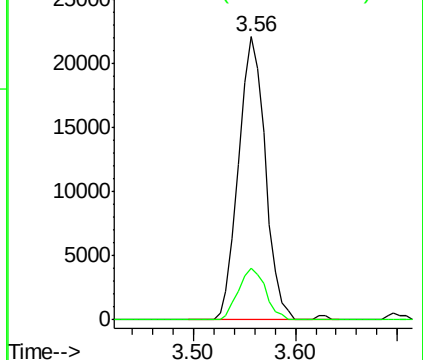
51 100

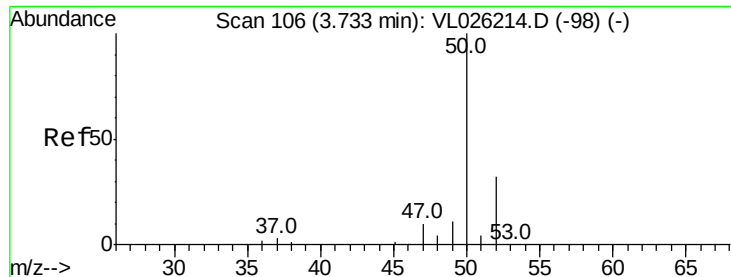
67 18.4 15.3 22.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.13 ppbv

RT: 3.81 min Scan# 119

Delta R.T. 0.08 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

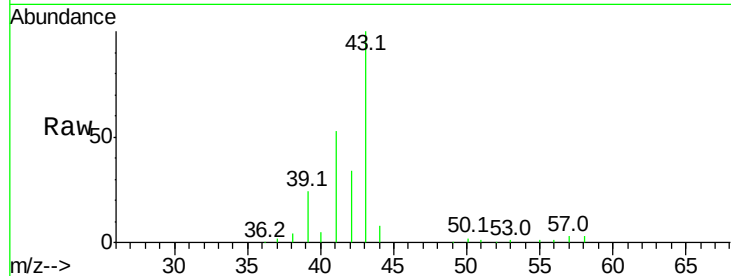
SS-3DL

Tot Ion: 50 Resp: 4183

Ion Ratio Lower Upper

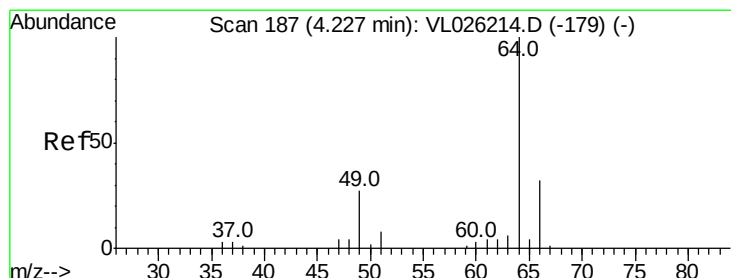
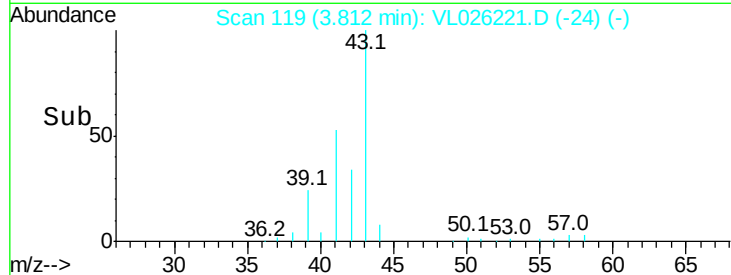
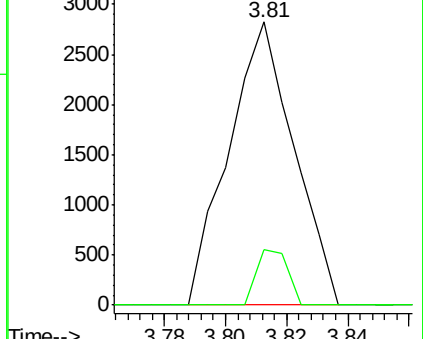
50 100

52 19.7 25.8 38.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#7

Chloroethane

Concen: 0.14 ppbv

RT: 4.59 min Scan# 247

Delta R.T. 0.37 min

Lab File: VL026221.D

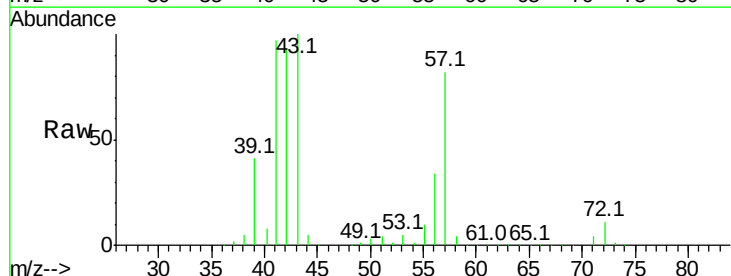
Acq: 21 Oct 2015 1:02

Tgt Ion: 64 Resp: 1943

Ion Ratio Lower Upper

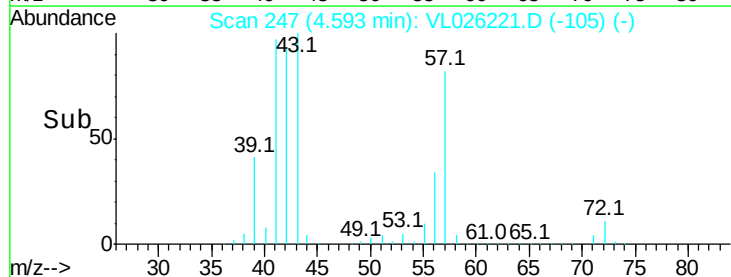
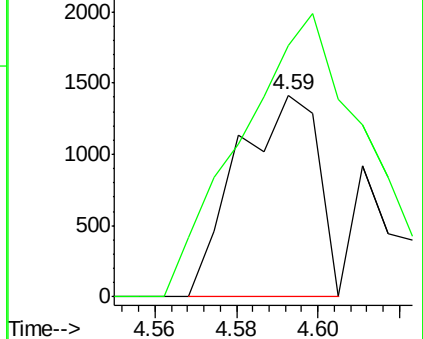
64 100

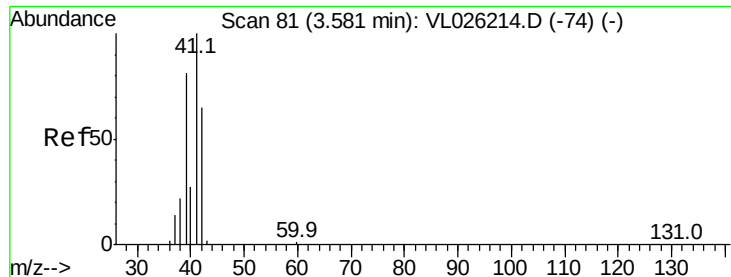
66 124.4 25.4 38.0#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 5.55 ppbv

RT: 3.81 min Scan# 119

Delta R.T. 0.23 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

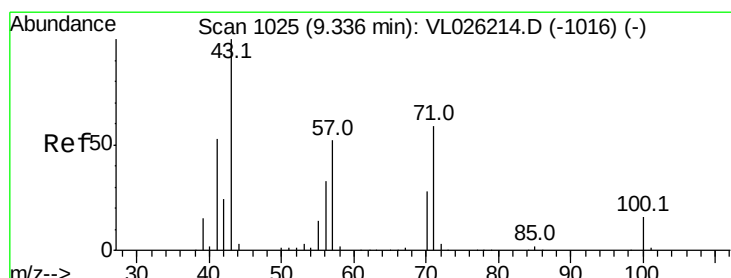
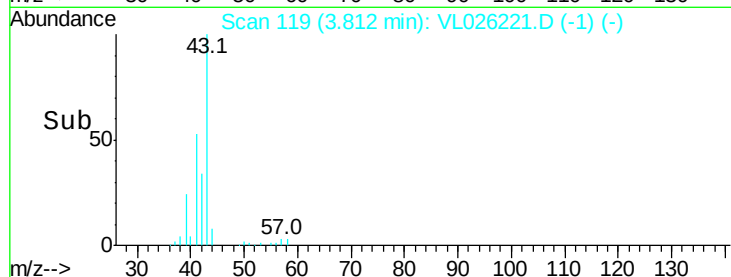
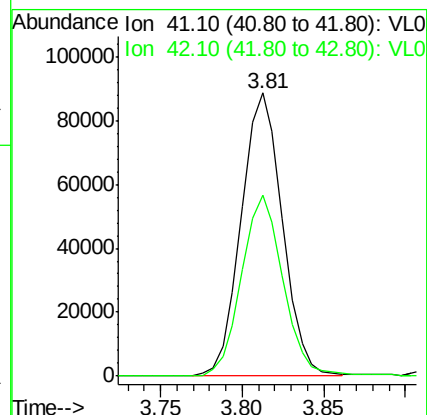
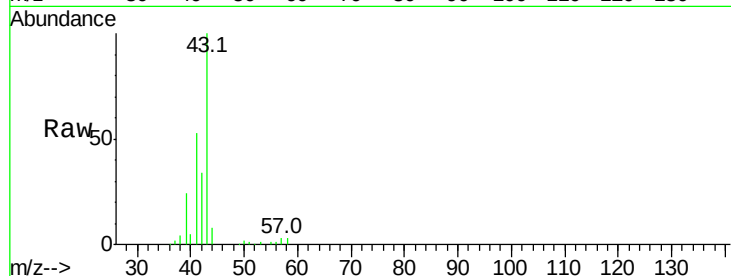
SS-3DL

Tot Ion: 41 Resp: 155987

Ion Ratio Lower Upper

41 100

42 64.9 53.8 80.8



#10

Heptane

Concen: 78.73 ppbv

RT: 9.37 min Scan# 1030

Delta R.T. 0.03 min

Lab File: VL026221.D

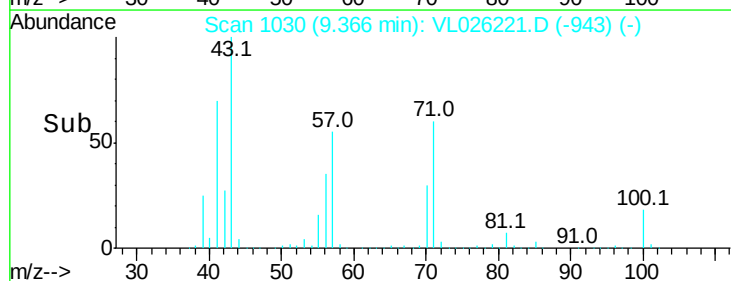
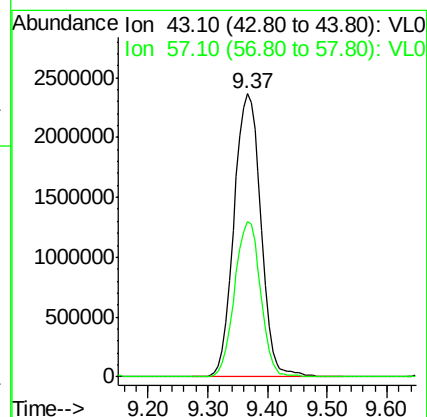
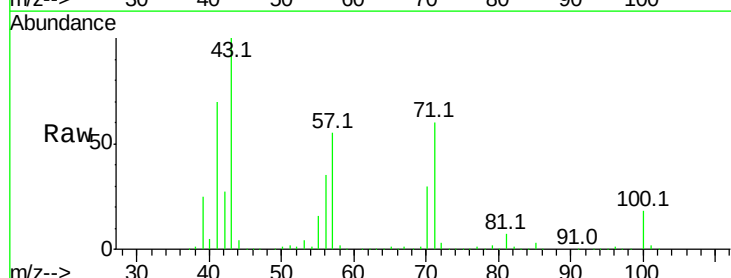
Acq: 21 Oct 2015 1:02

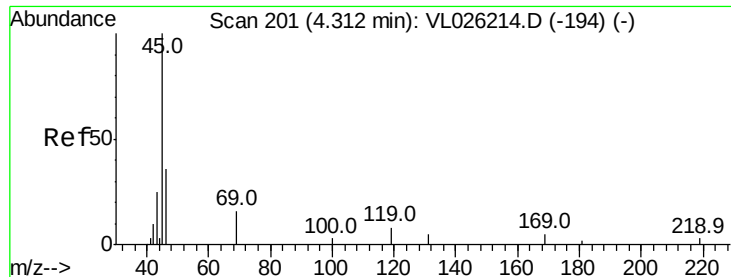
Tgt Ion: 43 Resp: 7415010

Ion Ratio Lower Upper

43 100

57 52.9 43.7 65.5

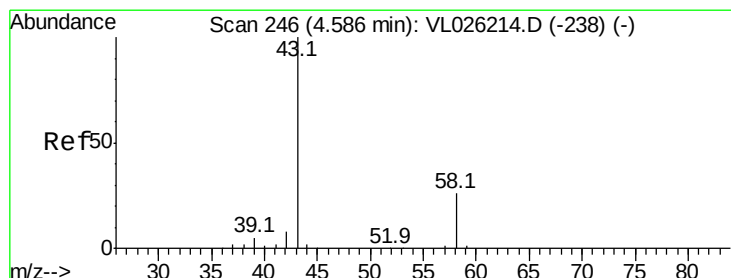
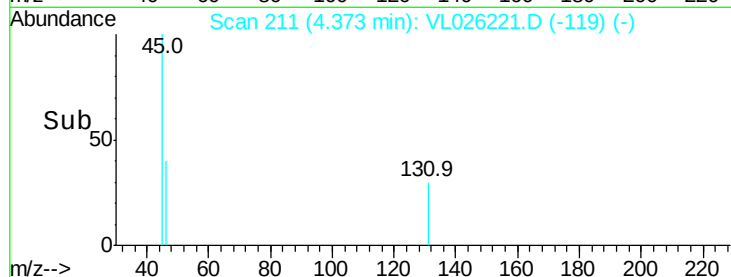
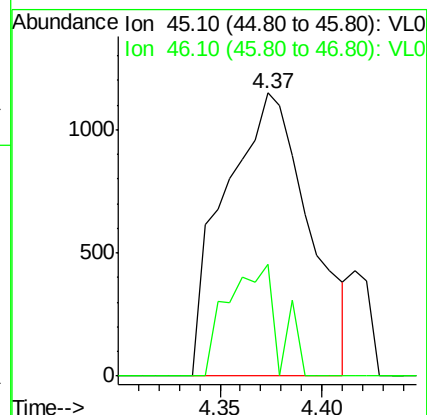
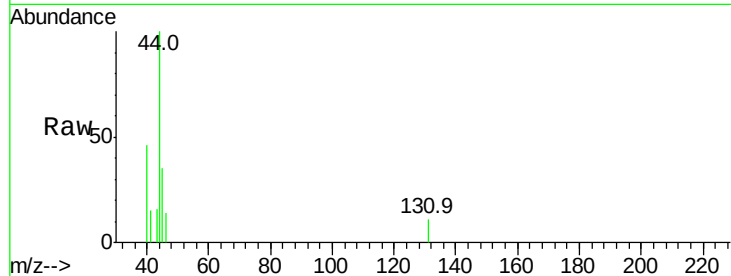




#13  
Ethanol  
Concen: 0.78 ppbv  
RT: 4.37 min Scan# 211  
Delta R.T. 0.06 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

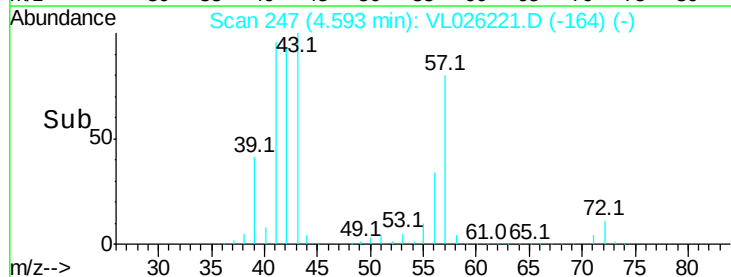
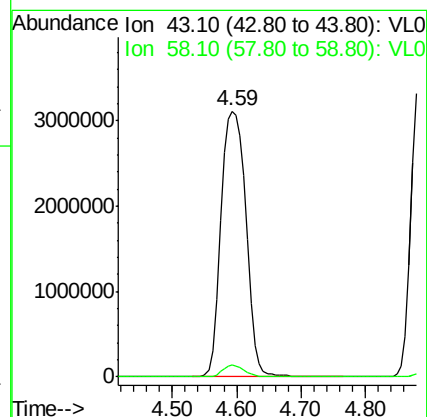
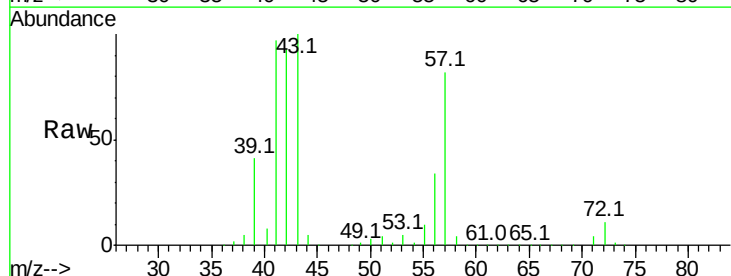
Instrument :  
MSVOA\_L  
ClientSampled :  
SS-3DL

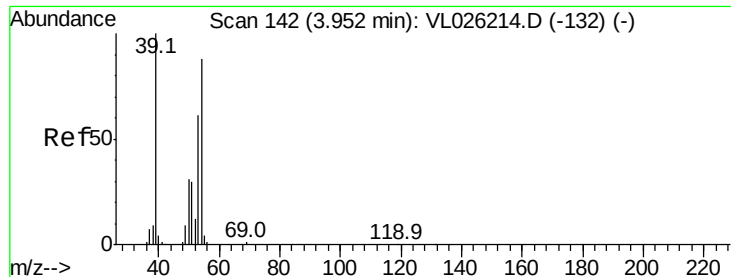
Tot Ion: 45 Resp: 3305  
Ion Ratio Lower Upper  
45 100  
46 23.9 15.8 63.0



#15  
Acetone  
Concen: 122.88 ppbv  
RT: 4.59 min Scan# 247  
Delta R.T. 0.01 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

Tgt Ion: 43 Resp: 8585113  
Ion Ratio Lower Upper  
43 100  
58 4.0 21.8 32.6#





#16

1,3-Butadiene

Concen: 0.28 ppbv

RT: 3.93 min Scan# 139

Delta R.T. -0.02 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

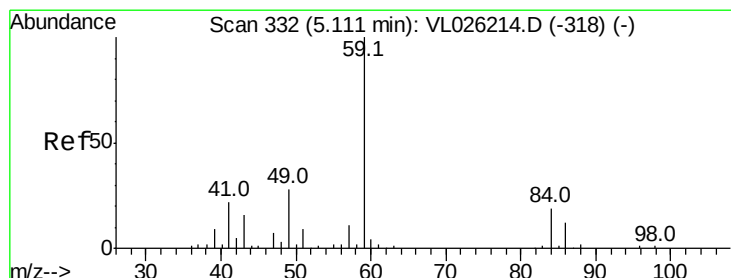
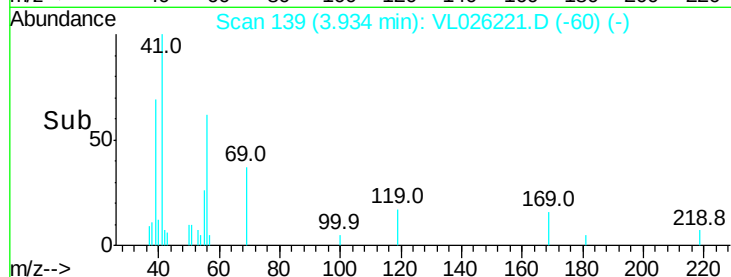
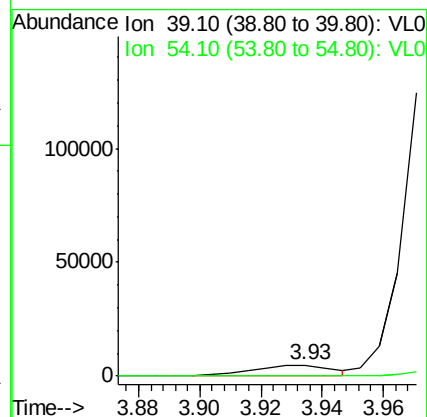
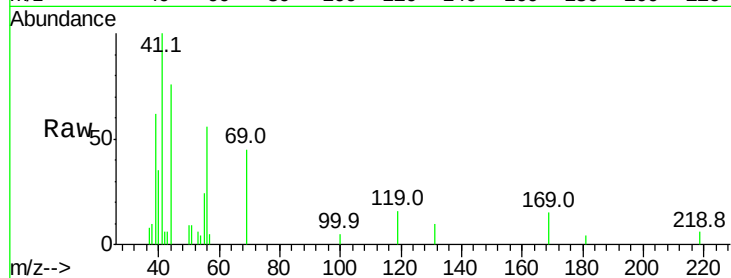
SS-3DL

Tot Ion: 39 Resp: 8717

Ion Ratio Lower Upper

39 100

54 0.0 67.3 100.9#



#17

tert-Butyl alcohol

Concen: 0.07 ppbv

RT: 5.21 min Scan# 348

Delta R.T. 0.10 min

Lab File: VL026221.D

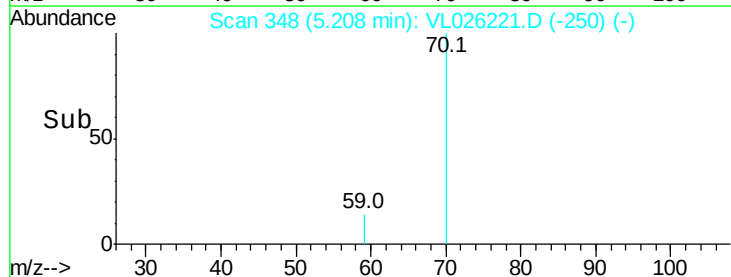
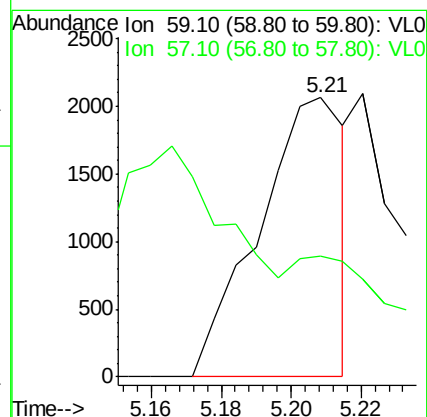
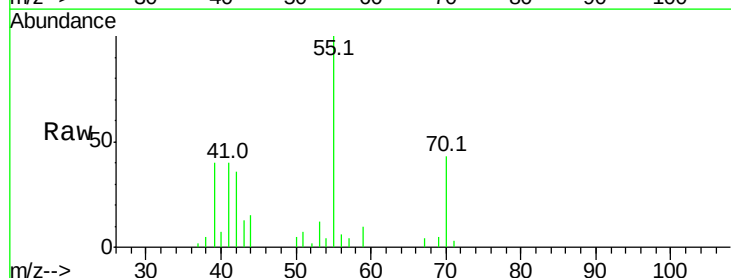
Acq: 21 Oct 2015 1:02

Tgt Ion: 59 Resp: 3533

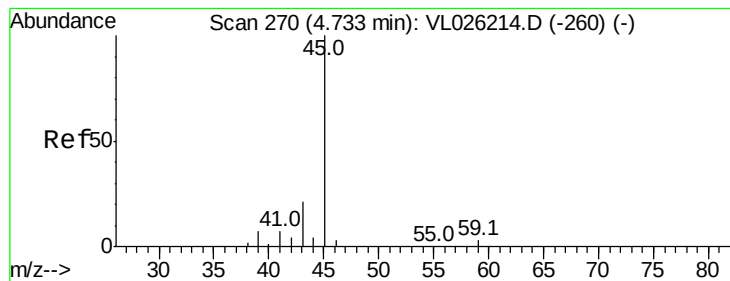
Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#







#19

Isopropyl Alcohol

Concen: 0.12 ppbv

RT: 4.82 min Scan# 285

Delta R.T. 0.09 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

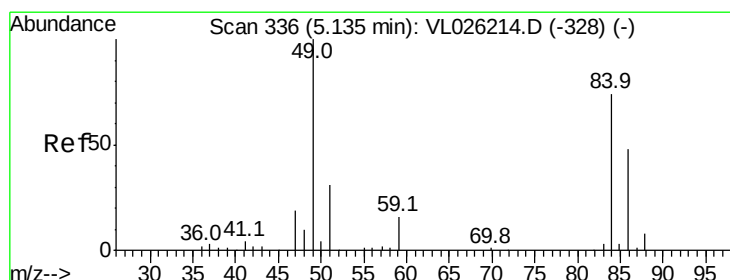
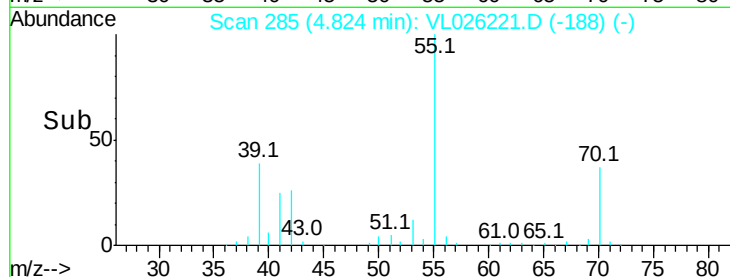
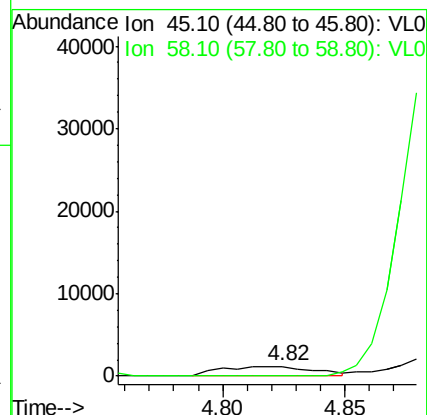
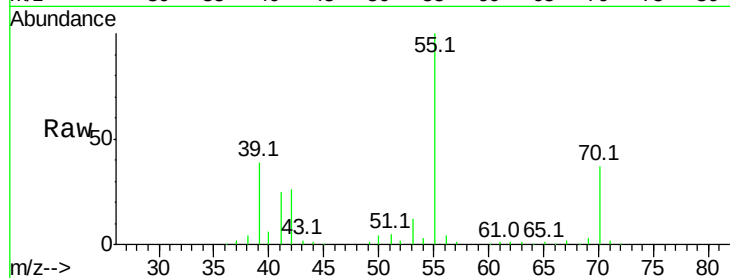
SS-3DL

Tot Ion: 45 Resp: 3228

Ion Ratio Lower Upper

45 100

58 0.0 40.3 60.5#



#20

Methylene Chloride

Concen: 0.07 ppbv

RT: 5.14 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Tgt Ion: 84 Resp: 1977

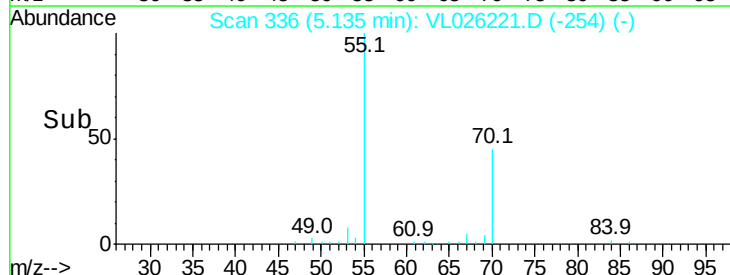
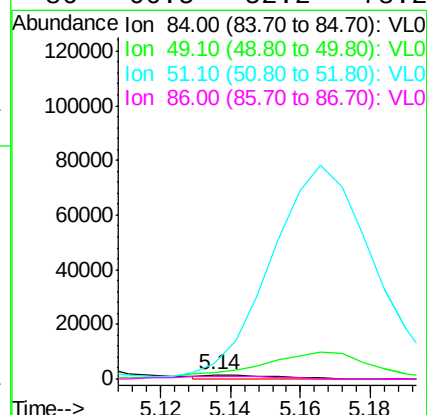
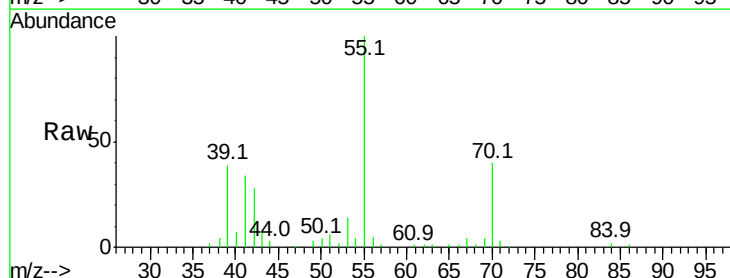
Ion Ratio Lower Upper

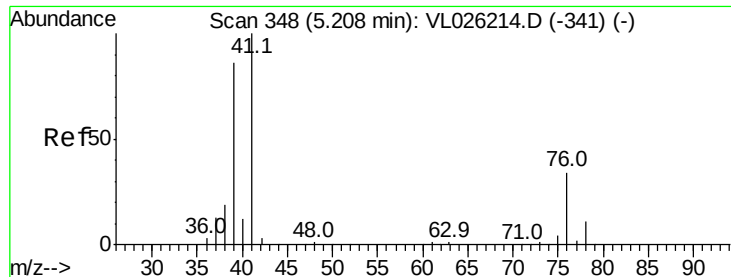
84 100

49 30.5 108.7 163.1#

51 211.1 33.7 50.5#

86 66.5 52.2 78.2

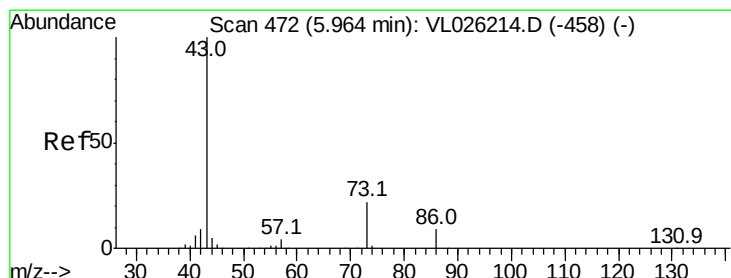
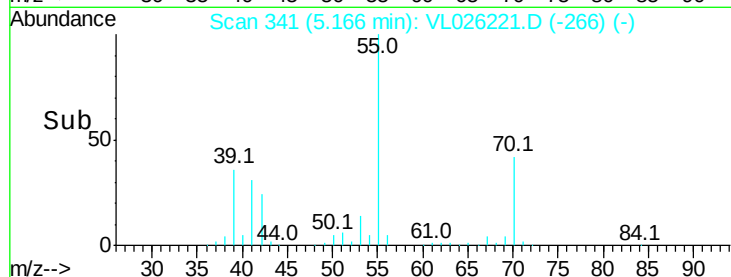
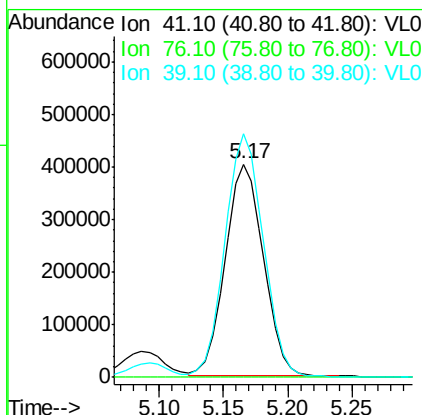
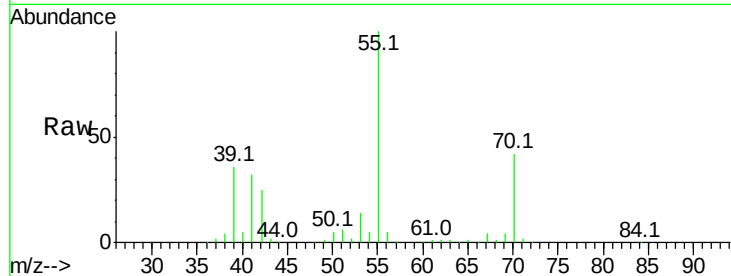




#21  
Allvl Chloride  
Concen: 18.36 ppbv  
RT: 5.17 min Scan# 341  
Delta R.T. -0.04 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

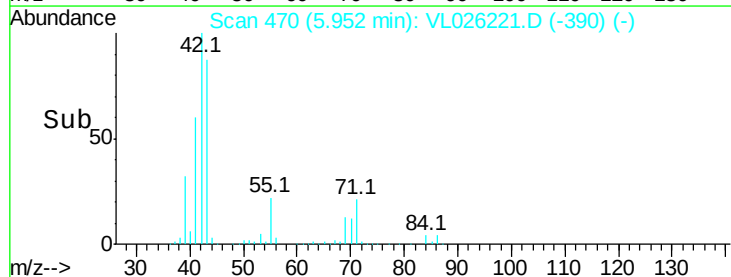
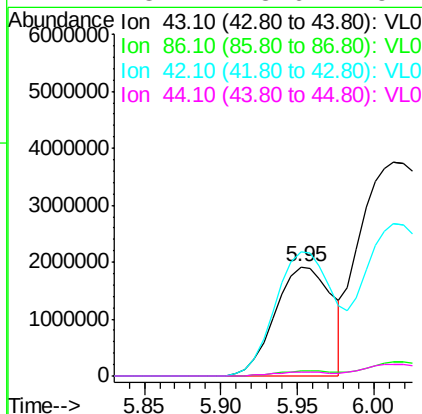
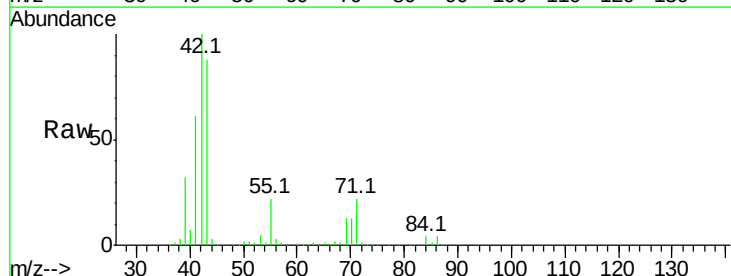
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL

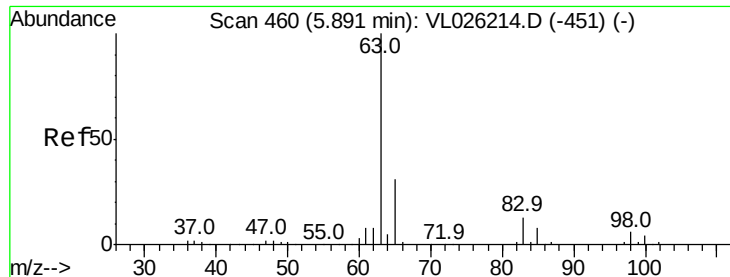
Tot Ion: 41 Resp: 837740  
Ion Ratio Lower Upper  
41 100  
76 0.0 26.6 39.8#  
39 122.4 67.4 101.2#



#23  
Vinyl Acetate  
Concen: 38.51 ppbv  
RT: 5.95 min Scan# 470  
Delta R.T. -0.01 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

Tgt Ion: 43 Resp: 4960533  
Ion Ratio Lower Upper  
43 100  
86 4.5 7.0 10.6#  
42 113.5 7.5 11.3#  
44 3.4 3.6 5.4#





#24

1,1-Dichloroethane

Concen: 0.45 ppbv

RT: 5.96 min Scan# 471

Delta R.T. 0.07 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampled :

SS-3DL

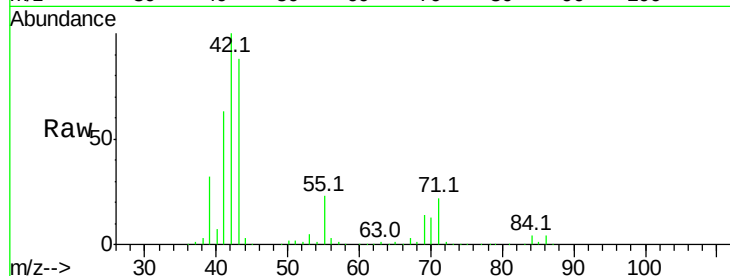
Tot Ion: 63 Resp: 36318

Ion Ratio Lower Upper

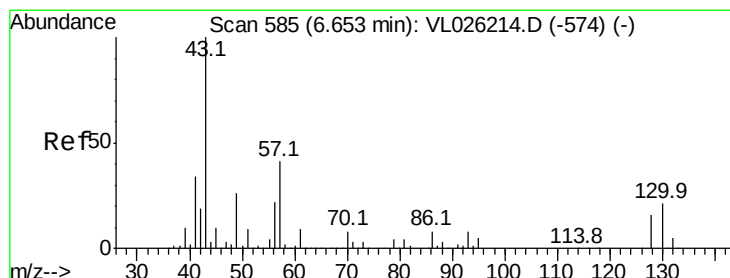
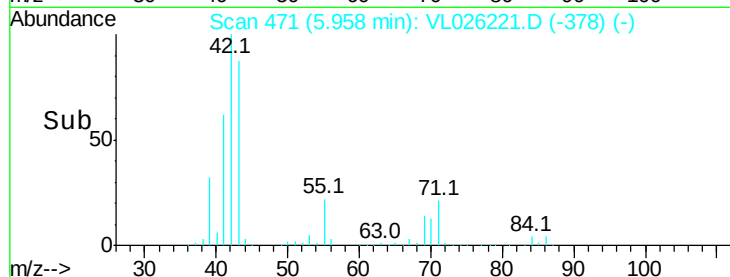
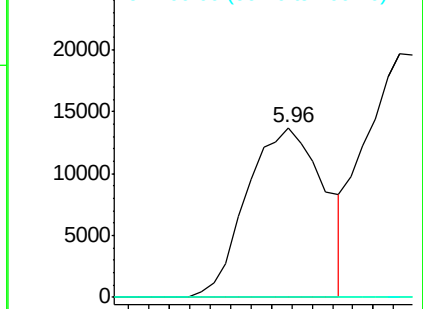
63 100

98 0.0 2.9 8.8#

100 0.0 1.8 5.5#



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: 51.70 ppbv

RT: 6.67 min Scan# 588

Delta R.T. 0.02 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Tgt Ion: 43 Resp: 6771640

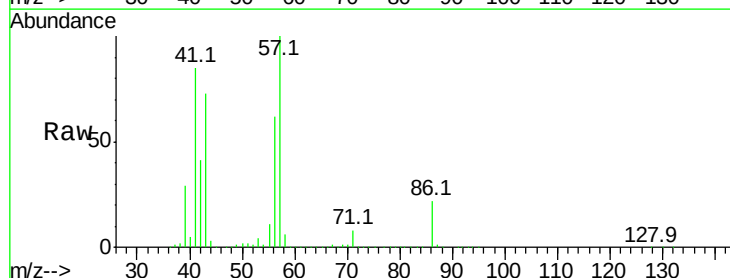
Ion Ratio Lower Upper

43 100

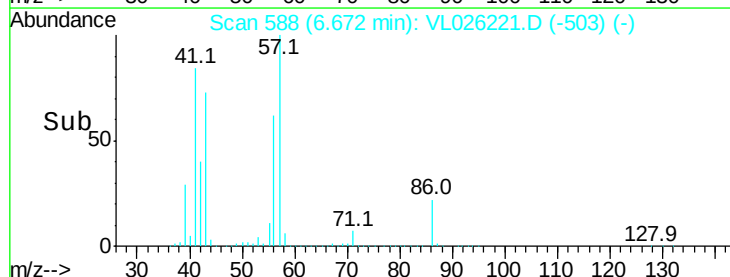
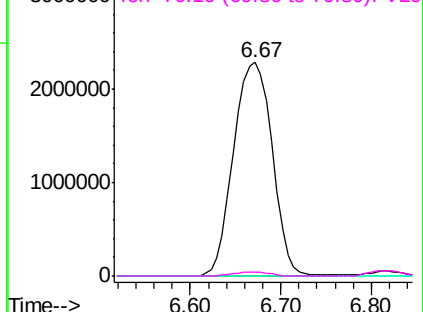
45 0.0 7.7 11.5#

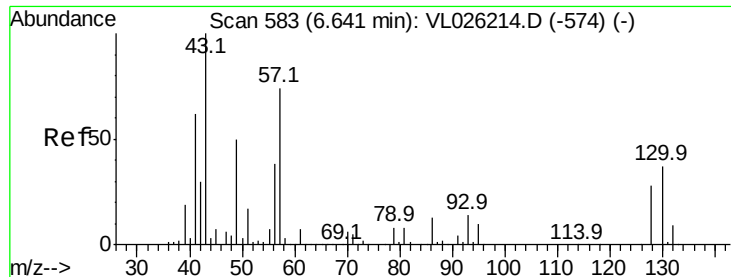
61 0.1 7.5 11.3#

70 1.7 6.9 10.3#



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

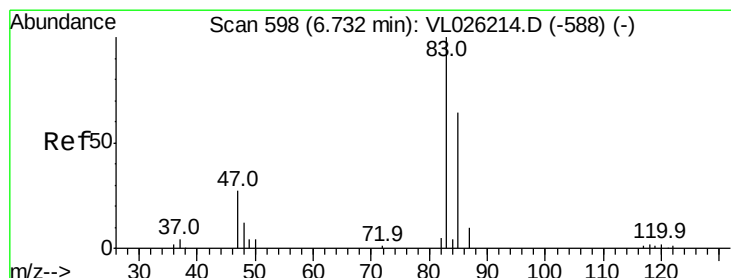
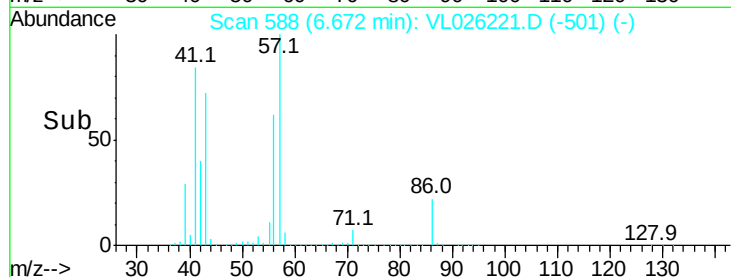
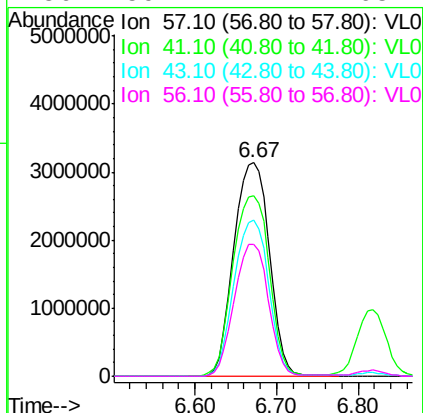
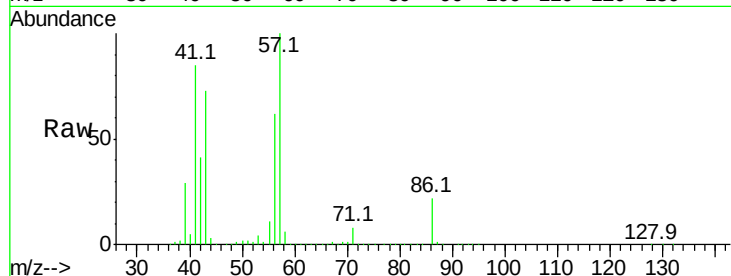




#26  
Hexane  
Concen: 145.62 ppbv  
RT: 6.67 min Scan# 588  
Delta R.T. 0.03 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

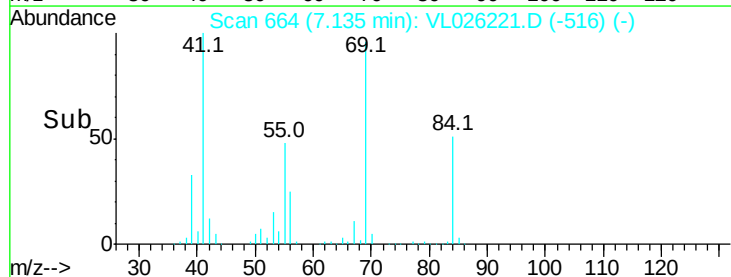
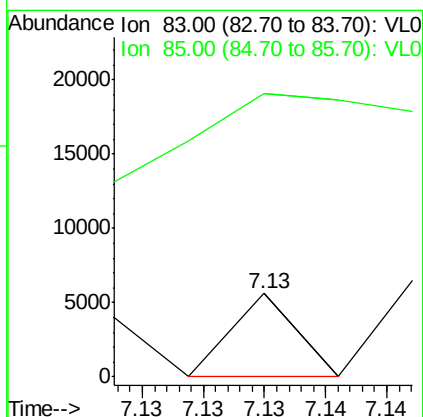
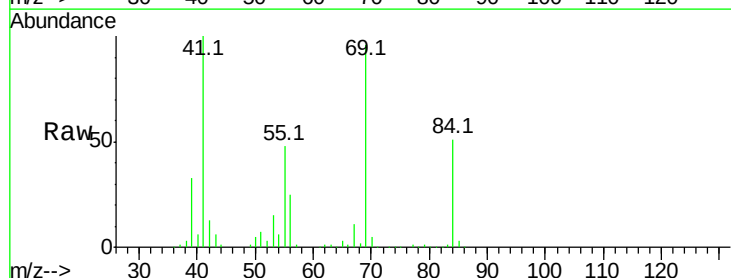
Instrument :  
MSVOA\_L  
ClientSampleID :  
SS-3DL

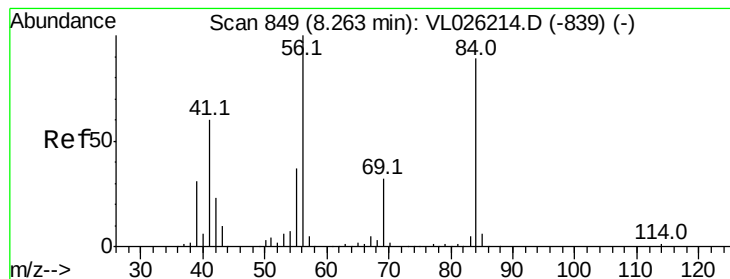
Tot Ion: 57 Resp: 9532325  
Ion Ratio Lower Upper  
57 100  
41 86.8 68.1 102.1  
43 71.1 163.4 245.2#  
56 59.2 42.2 63.4



#29  
Chloroform  
Concen: 0.02 ppbv  
RT: 7.13 min Scan# 664  
Delta R.T. 0.40 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

Tgt Ion: 83 Resp: 2050  
Ion Ratio Lower Upper  
83 100  
85 56.7 51.5 77.3





#30

Cvclohexane

Concen: 59.00 ppbv

RT: 8.29 min Scan# 853

Delta R.T. 0.02 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampled :

SS-3DL

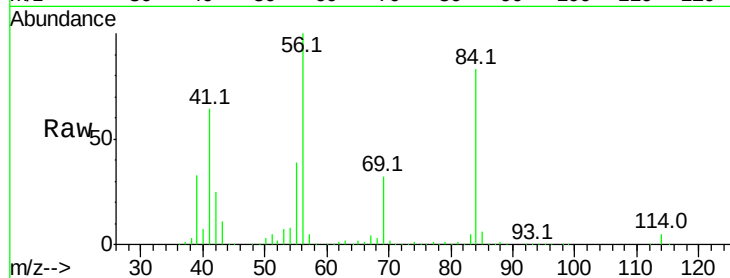
Tot Ion: 84 Resp: 3862664

Ion Ratio Lower Upper

84 100

56 120.4 95.9 143.9

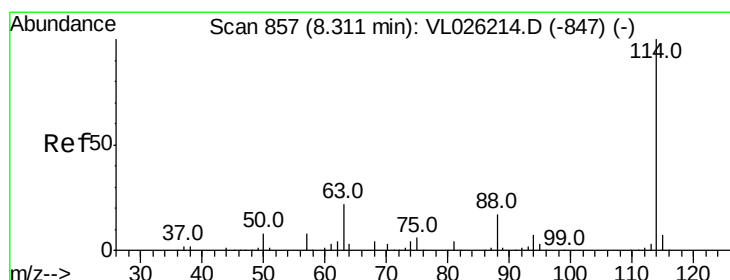
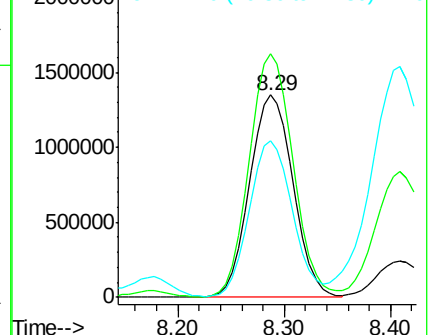
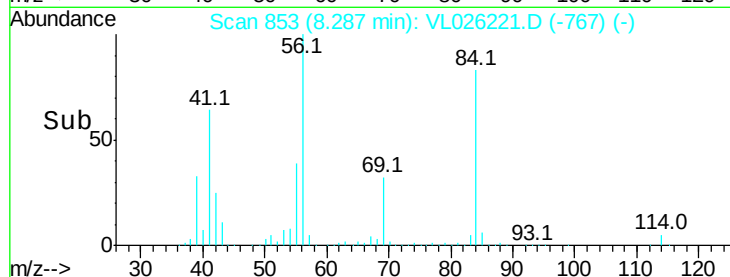
41 77.3 54.8 82.2



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 8.32 min Scan# 858

Delta R.T. 0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

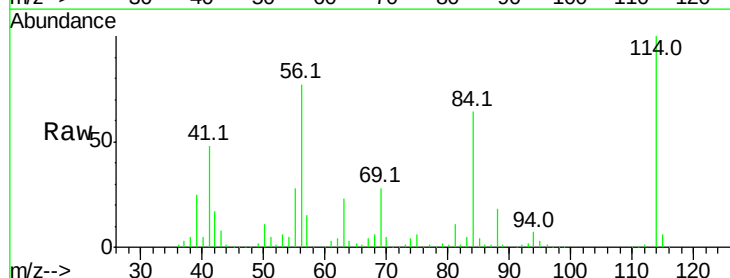
Tgt Ion: 114 Resp: 1476262

Ion Ratio Lower Upper

114 100

63 27.6 18.2 27.4#

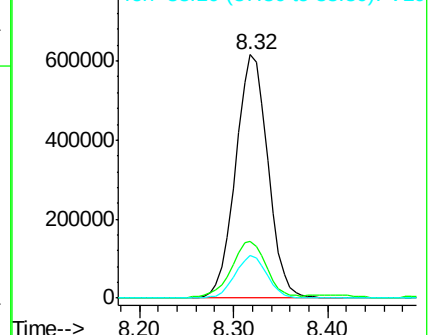
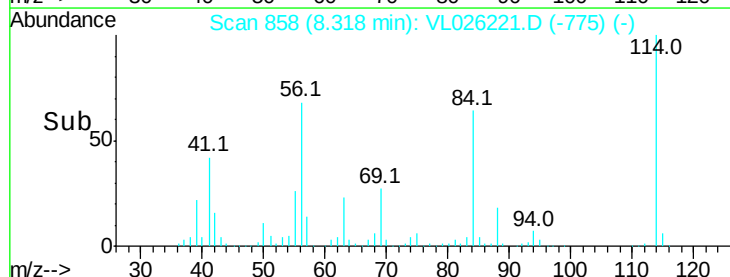
88 17.3 13.5 20.3

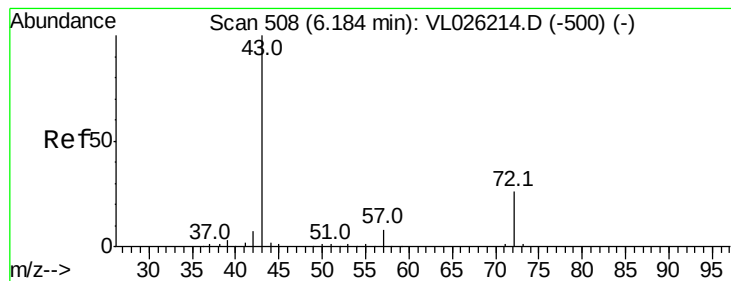


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 34.49 ppbv

RT: 6.31 min Scan# 529

Delta R.T. 0.13 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampled :

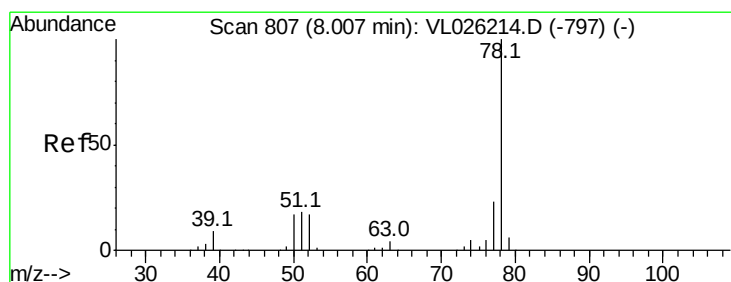
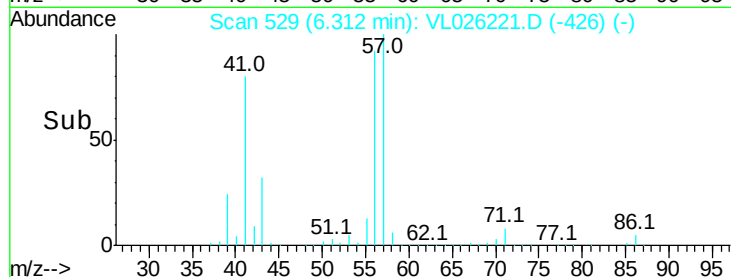
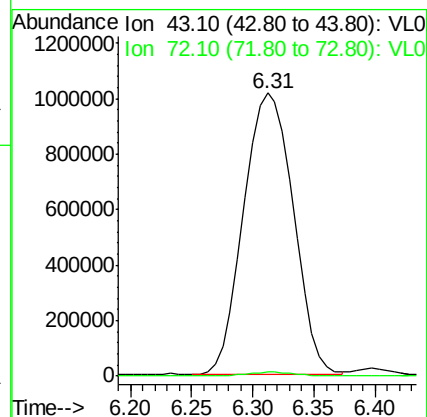
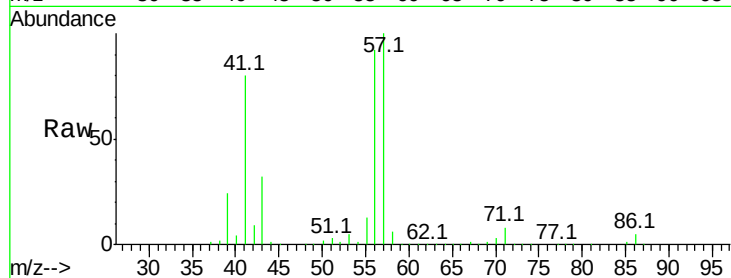
SS-3DL

Tot Ion: 43 Resp: 2877982

Ion Ratio Lower Upper

43 100

72 1.5 20.1 30.1#



#36

Benzene

Concen: 3.30 ppbv

RT: 8.01 min Scan# 808

Delta R.T. 0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

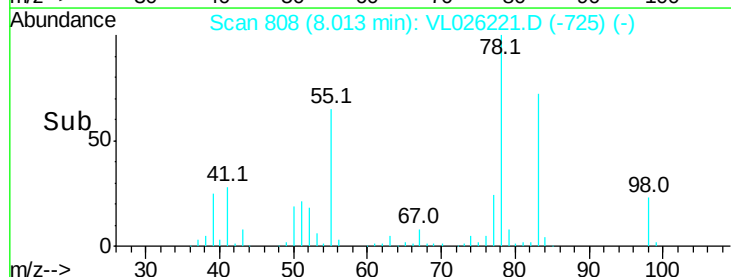
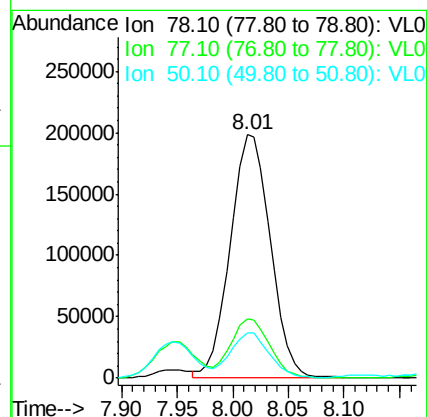
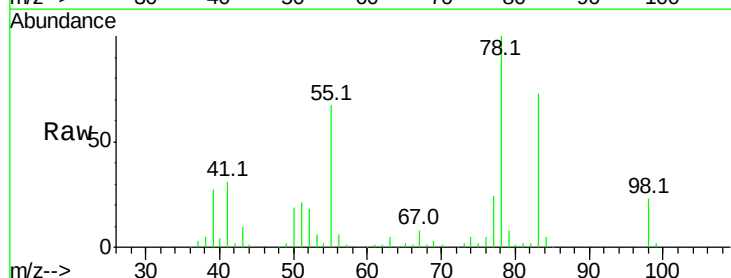
Tgt Ion: 78 Resp: 495836

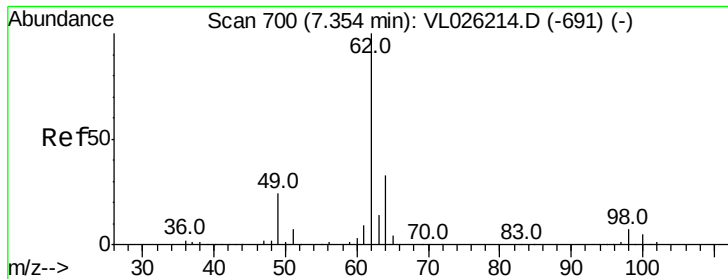
Ion Ratio Lower Upper

78 100

77 24.1 18.1 27.1

50 18.0 13.8 20.8

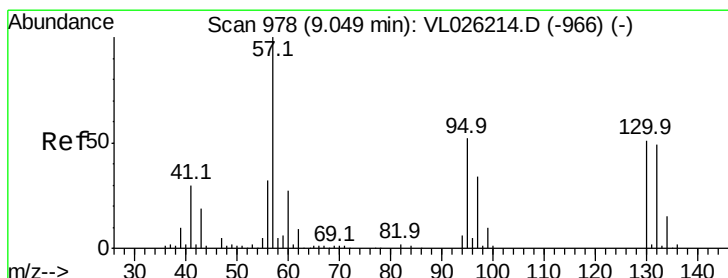
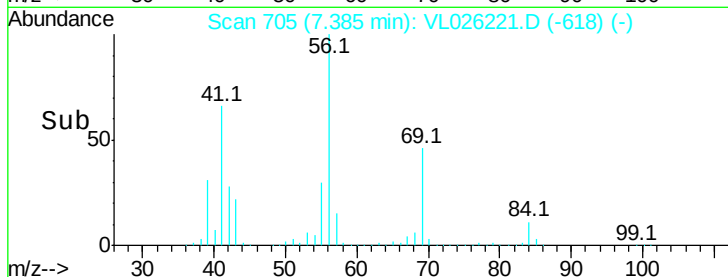
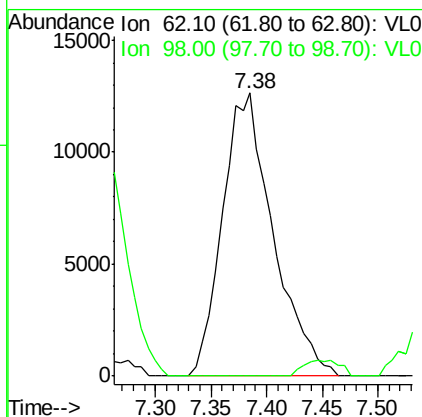
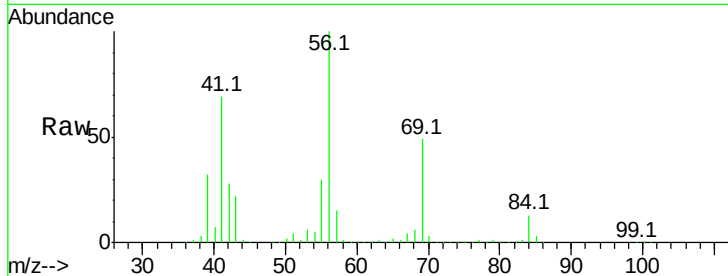




#37  
 1,2-Dichloroethane  
 Concen: 0.52 ppbv  
 RT: 7.38 min Scan# 705  
 Delta R.T. 0.03 min  
 Lab File: VL026221.D  
 Acq: 21 Oct 2015 1:02

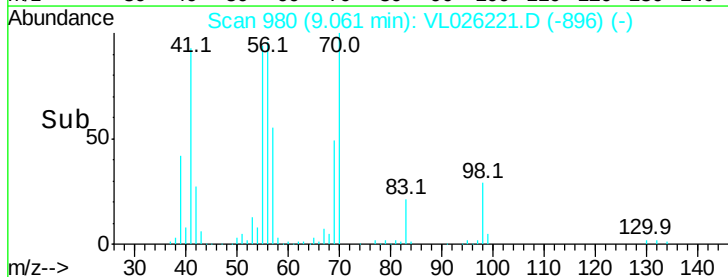
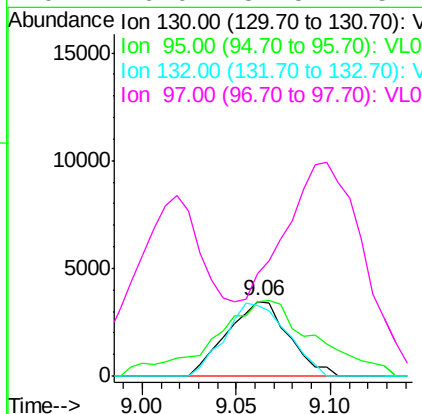
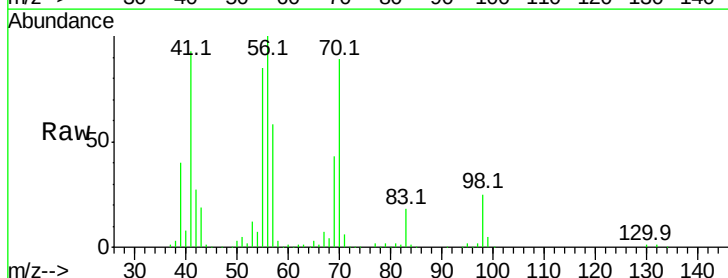
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SS-3DL

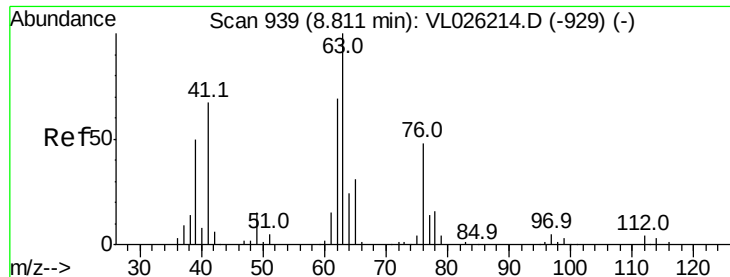
Tot Ion: 62 Resp: 39944  
 Ion Ratio Lower Upper  
 62 100  
 98 4.1 6.1 9.1#



#38  
 Trichloroethene  
 Concen: 0.11 ppbv  
 RT: 9.06 min Scan# 980  
 Delta R.T. 0.01 min  
 Lab File: VL026221.D  
 Acq: 21 Oct 2015 1:02

Tgt Ion: 130 Resp: 7871  
 Ion Ratio Lower Upper  
 130 100  
 95 74.1 81.0 121.4#  
 132 94.7 76.5 114.7  
 97 0.0 52.5 78.7#





#39

1,2-Dichloropropane

Concen: 0.03 ppbv

RT: 8.77 min Scan# 932

Delta R.T. -0.04 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

SS-3DL

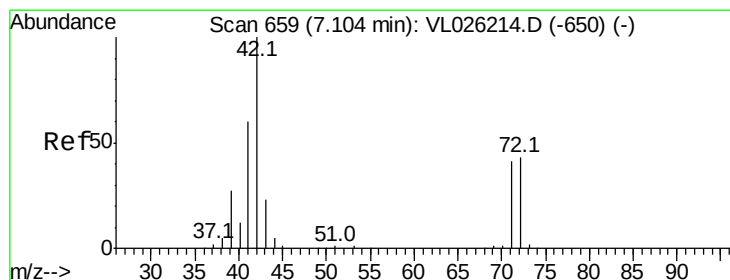
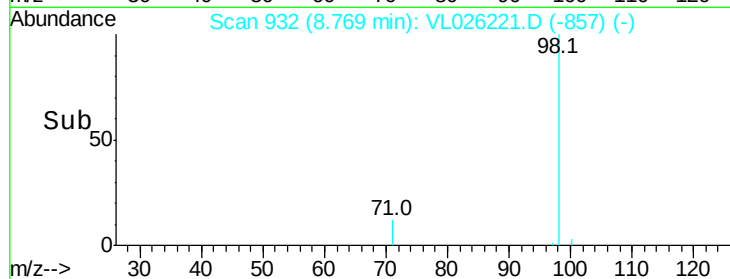
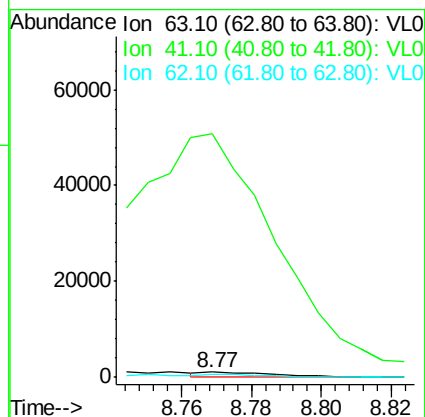
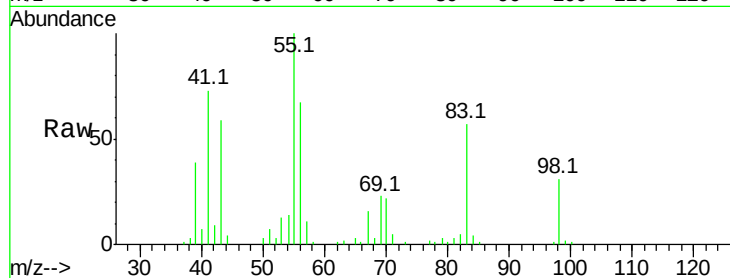
Tot Ion: 63 Resp: 1608

Ion Ratio Lower Upper

63 100

41 3967.3 53.2 79.8#

62 50.1 55.4 83.2#



#41

Tetrahydrofuran

Concen: 3.71 ppbv

RT: 7.14 min Scan# 665

Delta R.T. 0.04 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

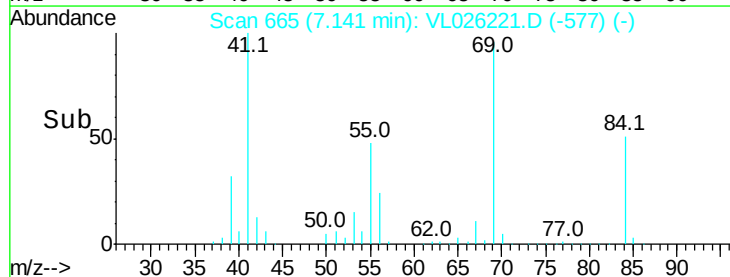
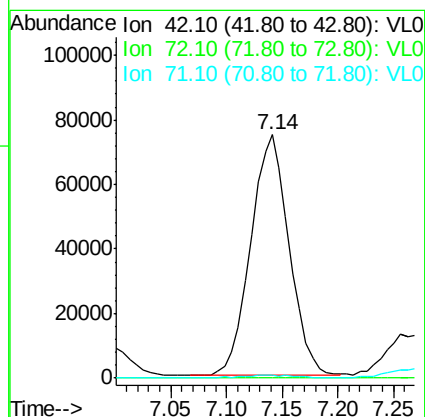
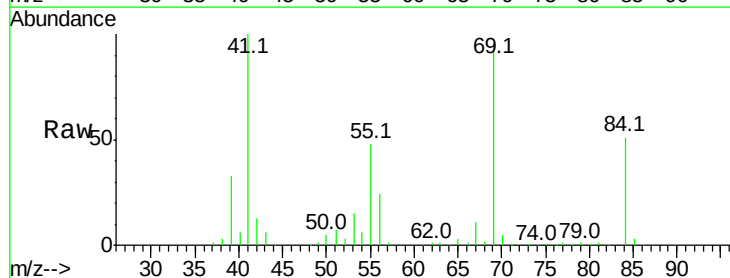
Tgt Ion: 42 Resp: 179425

Ion Ratio Lower Upper

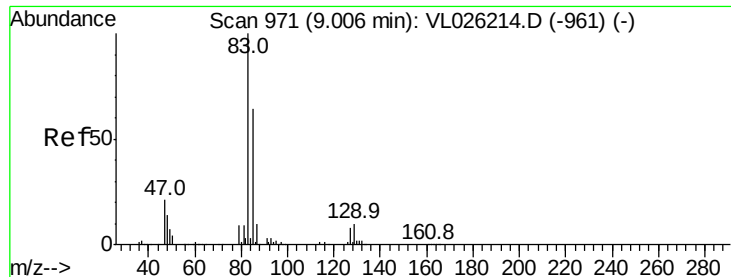
42 100

72 0.0 34.3 51.5#

71 0.0 32.1 48.1#







#42

Bromodichloromethane

Concen: 7.55 ppbv

RT: 9.01 min Scan# 972

Delta R.T. 0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

SS-3DL

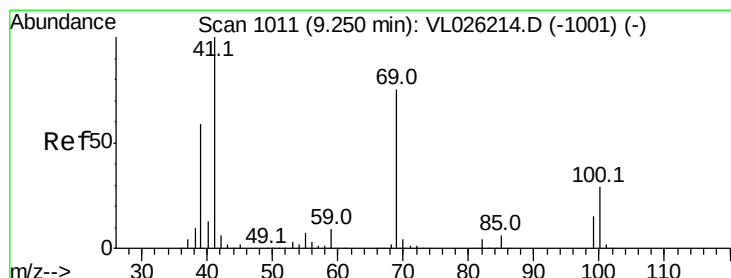
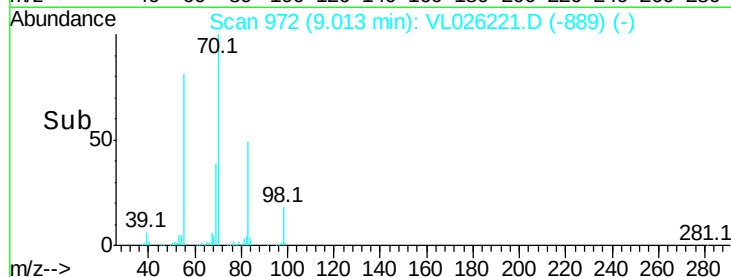
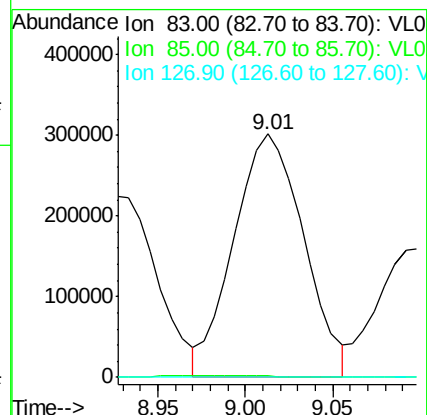
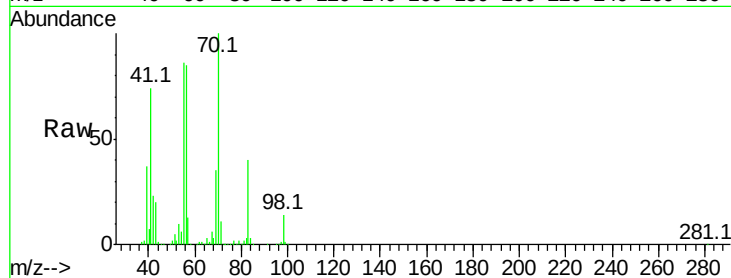
Tot Ion: 83 Resp: 838902

Ion Ratio Lower Upper

83 100

85 0.5 50.9 76.3#

127 0.0 6.2 9.4#



#43

Methyl Methacrylate

Concen: 6.72 ppbv

RT: 9.21 min Scan# 1005

Delta R.T. -0.04 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

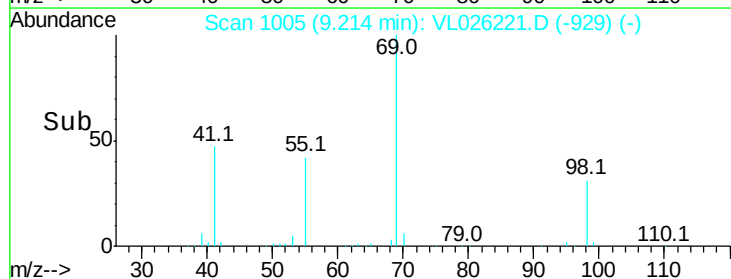
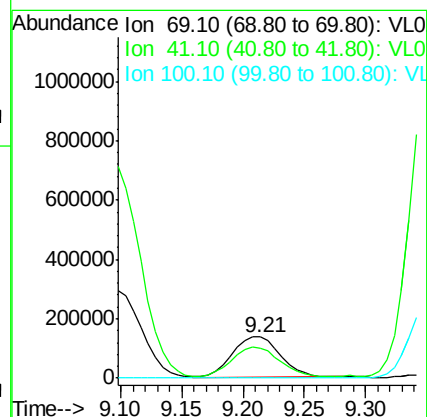
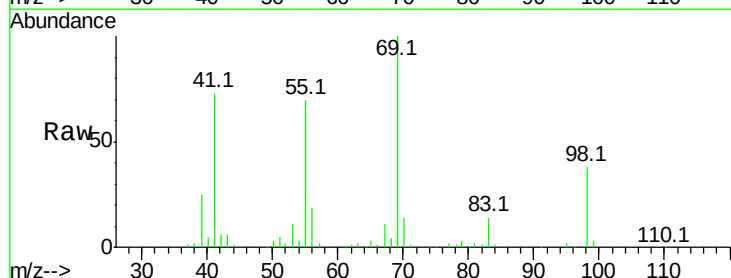
Tgt Ion: 69 Resp: 367564

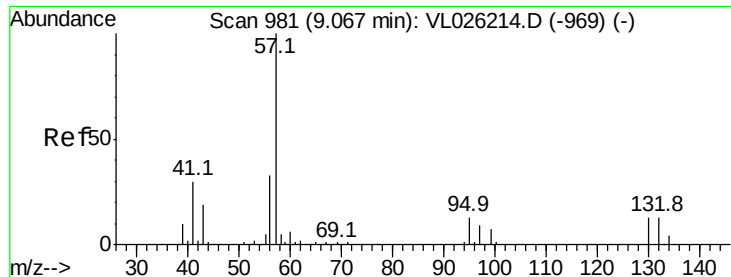
Ion Ratio Lower Upper

69 100

41 68.3 108.4 162.6#

100 0.0 30.6 45.8#





#44

2,2,4-Trimethylpentane

Concen: 7.61 ppbv

RT: 9.09 min Scan# 985

Delta R.T. 0.02 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

SS-3DL

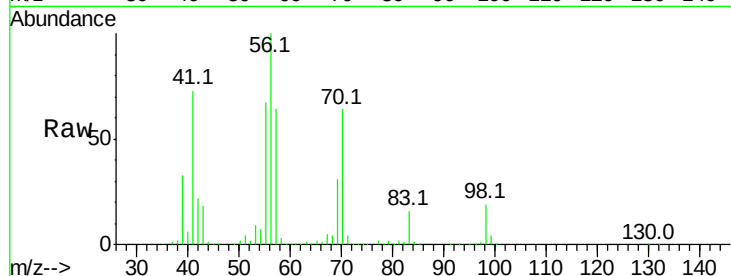
Tot Ion: 57 Resp: 1852498

Ion Ratio Lower Upper

57 100

41 113.9 23.7 35.5#

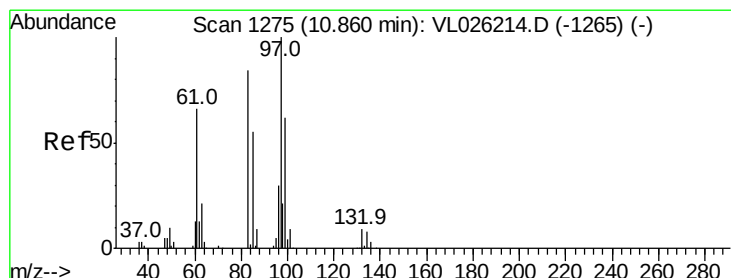
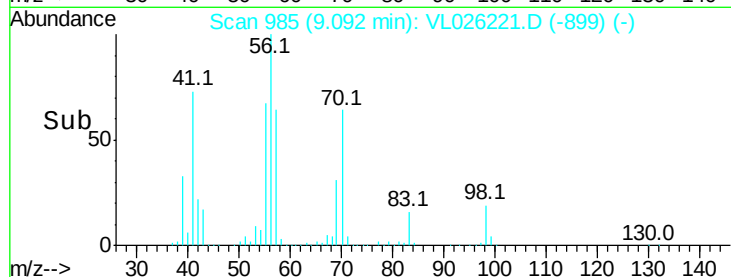
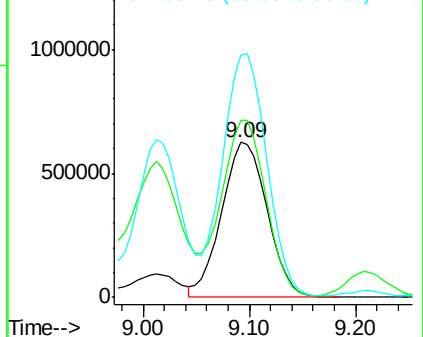
56 154.7 25.9 38.9#



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



#47

1,1,2-Trichloroethane

Concen: 0.04 ppbv

RT: 10.90 min Scan# 1282

Delta R.T. 0.04 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Tgt Ion: 97 Resp: 2386

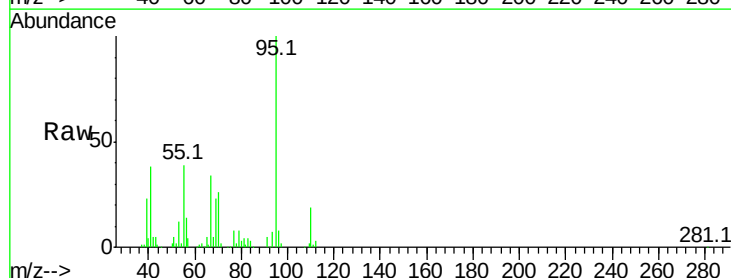
Ion Ratio Lower Upper

97 100

83 0.0 67.4 101.2#

85 6.7 43.8 65.6#

99 0.0 49.8 74.6#

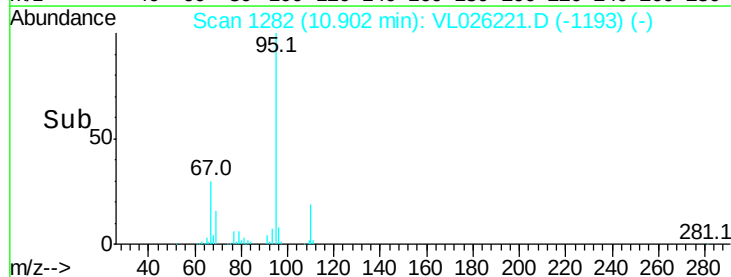
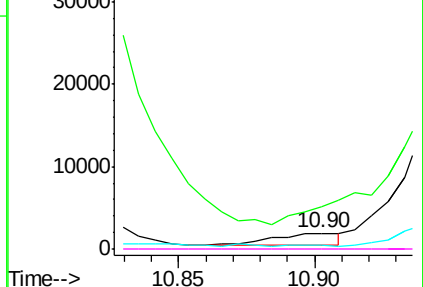


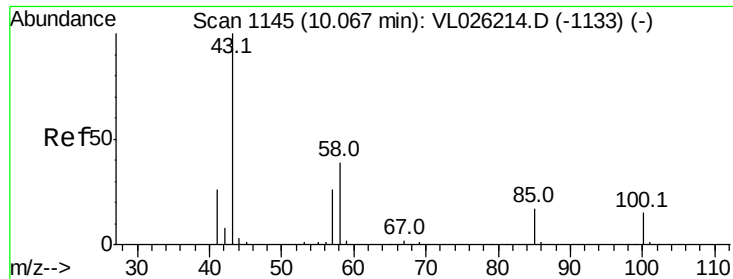
Abundance Ion 97.00 (96.70 to 97.70): VL0

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





#50

4-Methyl-2-Pentanone

Concen: 1.58 ppbv

RT: 10.07 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

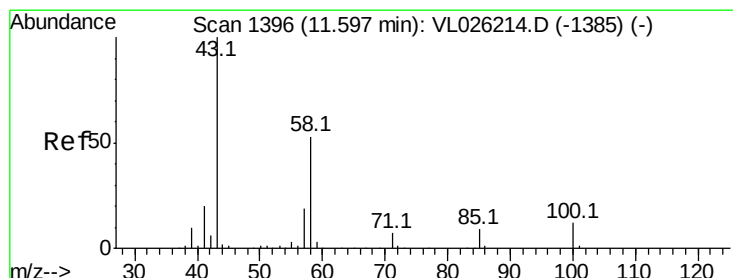
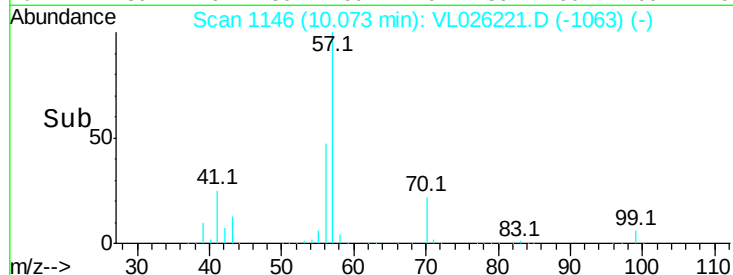
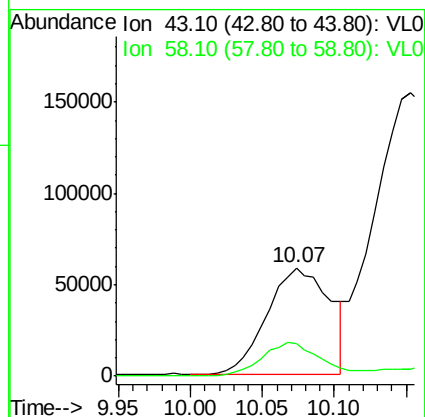
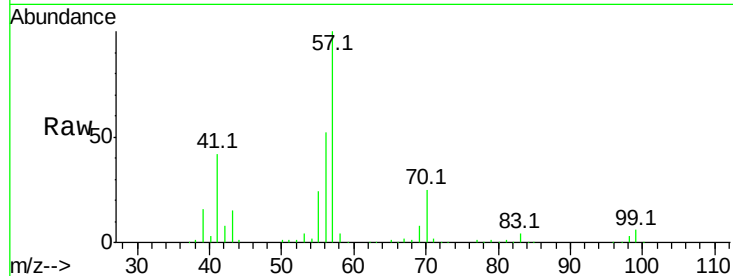
SS-3DL

Tot Ion: 43 Resp: 177547

Ion Ratio Lower Upper

43 100

58 29.9 31.1 46.7#



#51

2-Hexanone

Concen: 3.11 ppbv

RT: 11.65 min Scan# 1405

Delta R.T. 0.05 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

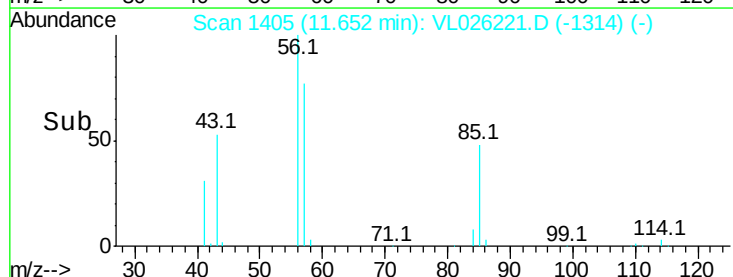
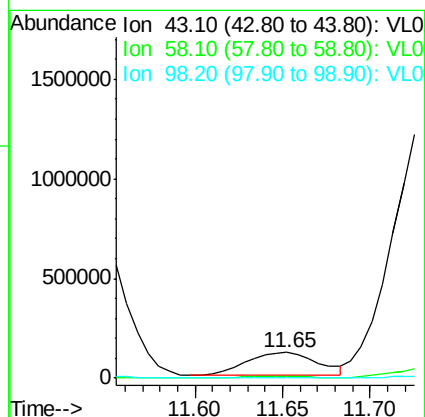
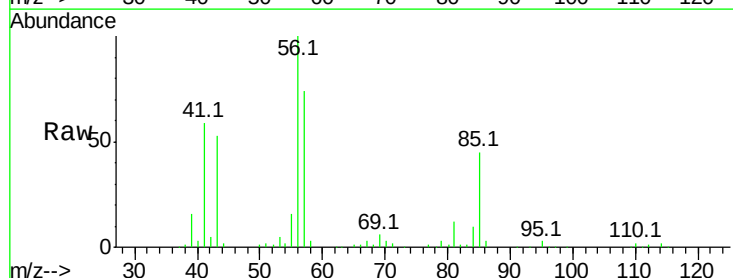
Tgt Ion: 43 Resp: 326729

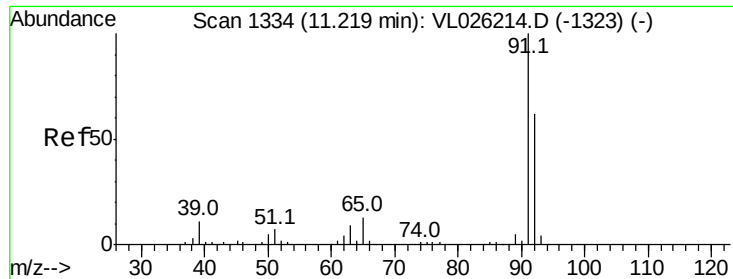
Ion Ratio Lower Upper

43 100

58 0.0 43.2 64.8#

98 0.0 0.0 0.0





#53

Toluene

Concen: 0.77 ppbv

RT: 11.23 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

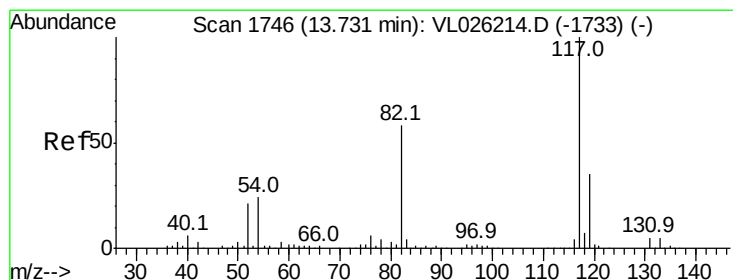
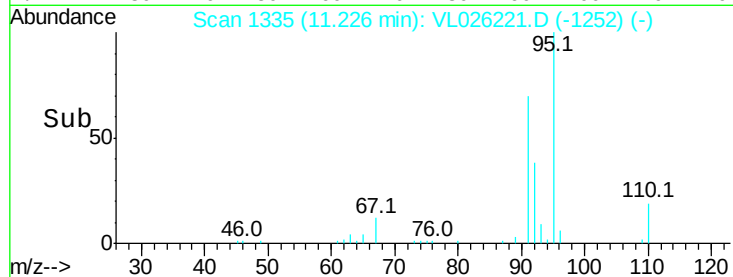
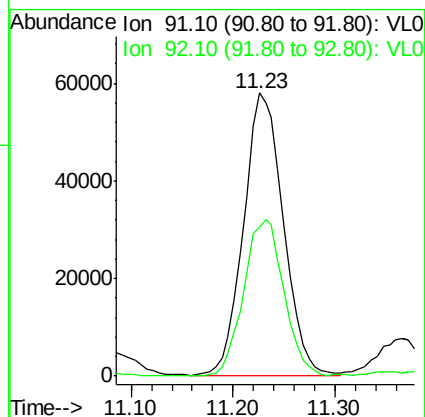
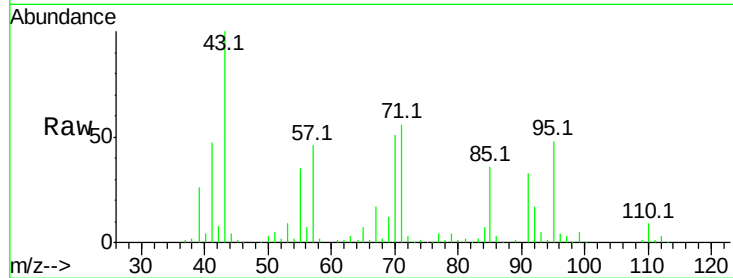
SS-3DL

Tot Ion: 91 Resp: 157913

Ion Ratio Lower Upper

91 100

92 55.8 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.73 min Scan# 1746

Delta R.T. 0.00 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

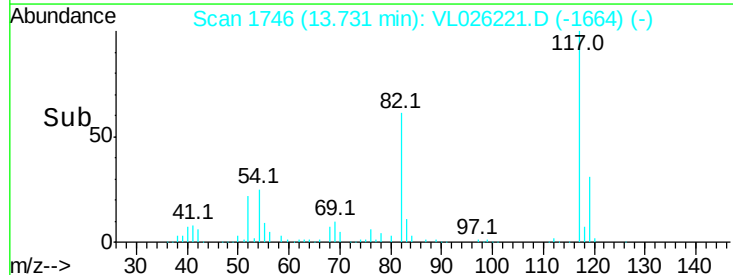
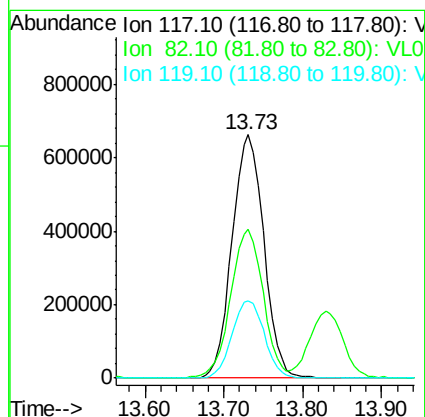
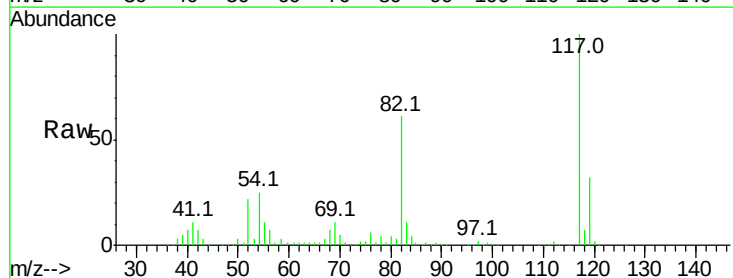
Tgt Ion: 117 Resp: 1865768

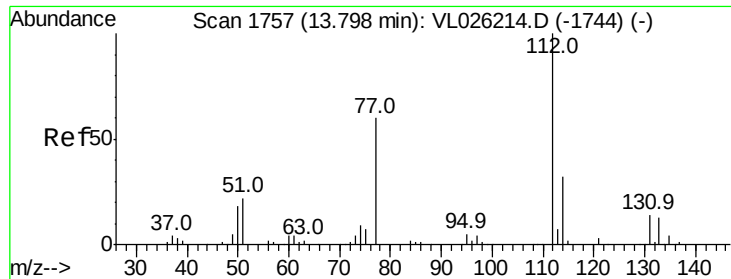
Ion Ratio Lower Upper

117 100

82 61.7 45.8 68.8

119 32.4 45.0 67.4#

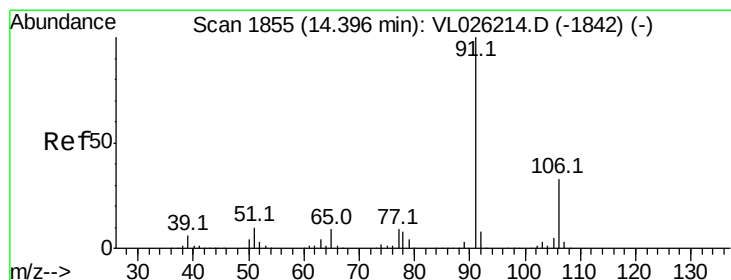
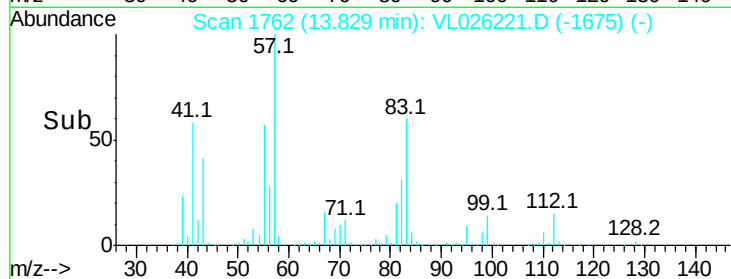
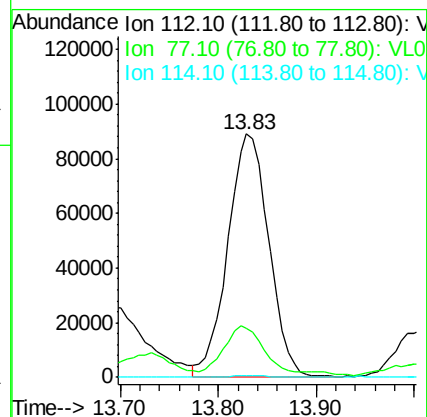
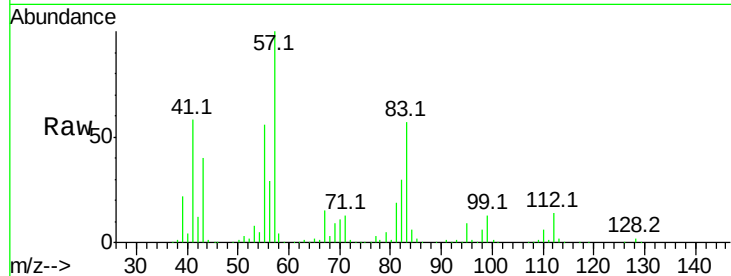




#57  
Chlorobenzene  
Concen: 1.45 ppbv  
RT: 13.83 min Scan# 1762  
Delta R.T. 0.03 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

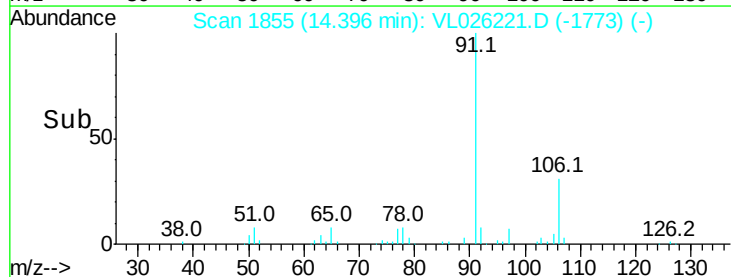
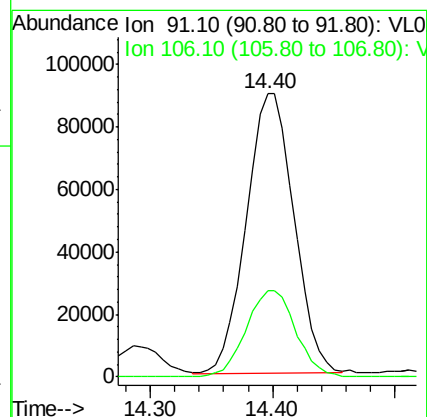
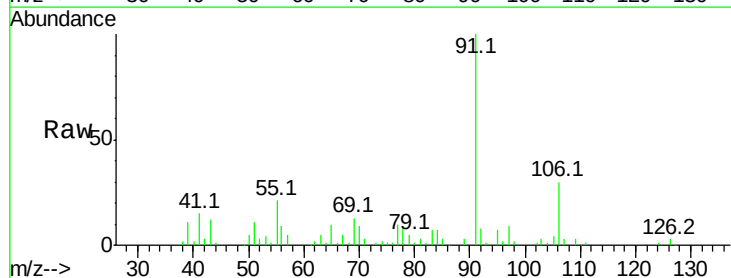
Instrument :  
MSVOA\_L  
ClientSampleId :  
SS-3DL

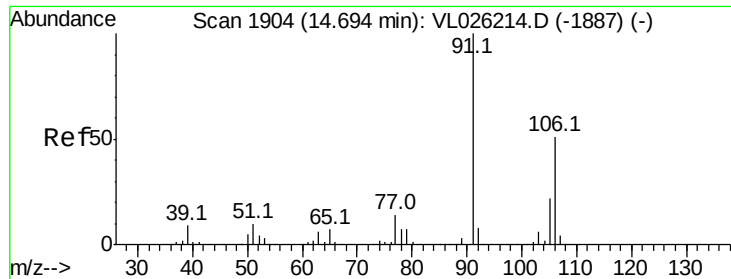
Tot Ion:112 Resp: 259633  
Ion Ratio Lower Upper  
112 100  
77 18.8 48.4 72.6#  
114 0.8 29.0 35.4#



#58  
Ethyl Benzene  
Concen: 0.80 ppbv  
RT: 14.40 min Scan# 1855  
Delta R.T. 0.00 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

Tgt Ion: 91 Resp: 242715  
Ion Ratio Lower Upper  
91 100  
106 30.7 26.1 39.1

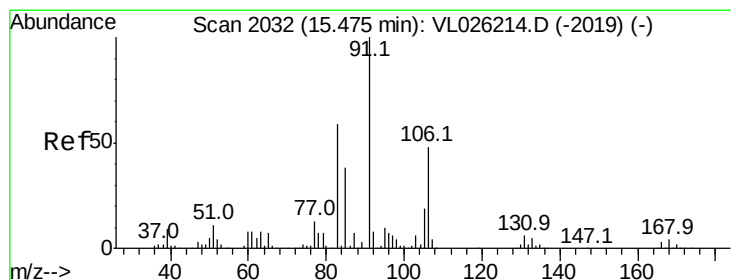
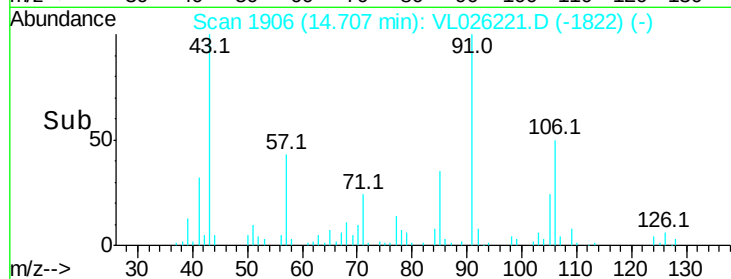
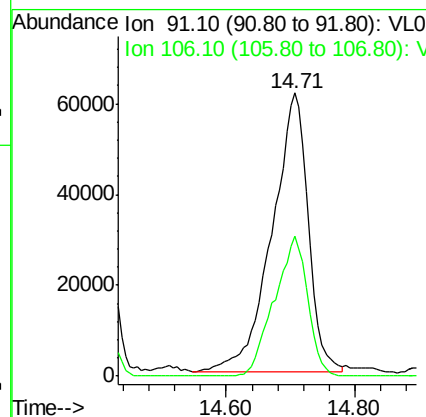
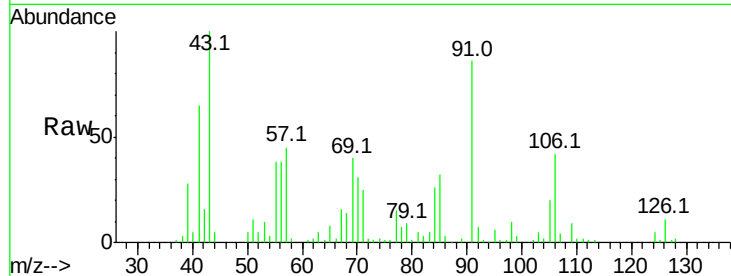




#59  
m/p-Xylene  
Concen: 1.02 ppbv  
RT: 14.71 min Scan# 1906  
Delta R.T. 0.01 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

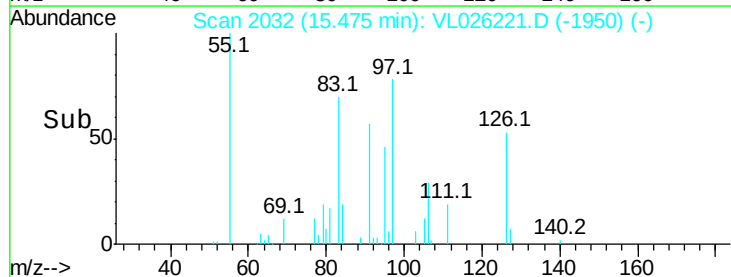
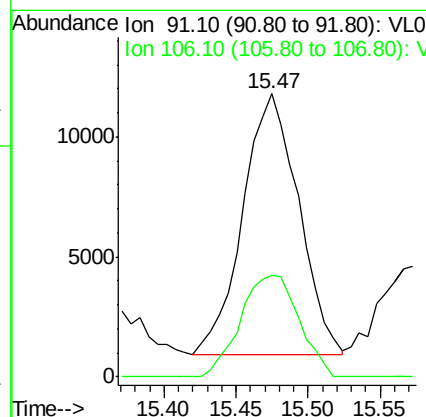
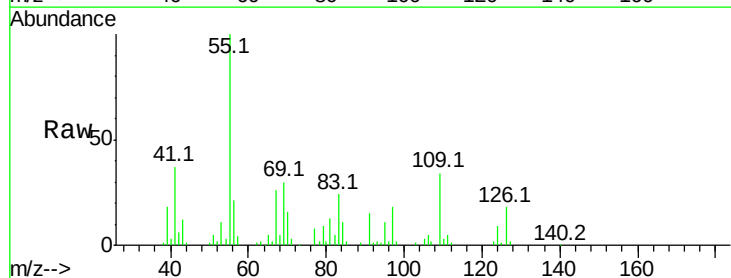
Instrument :  
MSVOA\_L  
ClientSampled :  
SS-3DL

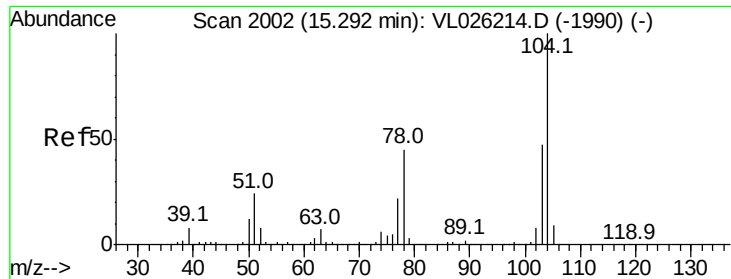
Tot Ion: 91 Resp: 241905  
Ion Ratio Lower Upper  
91 100  
106 46.0 40.6 61.0



#60  
o-Xylene  
Concen: 0.12 ppbv  
RT: 15.47 min Scan# 2032  
Delta R.T. 0.00 min  
Lab File: VL026221.D  
Acq: 21 Oct 2015 1:02

Tgt Ion: 91 Resp: 29065  
Ion Ratio Lower Upper  
91 100  
106 41.1 23.8 71.5





#61

Stvrene

Concen: 0.12 ppbv

RT: 15.29 min Scan# 2002

Delta R.T. 0.00 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

SS-3DL

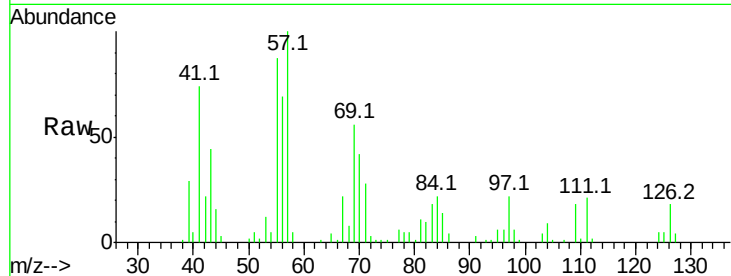
Tot Ion:104 Resp: 13546

Ion Ratio Lower Upper

104 100

78 57.4 35.3 52.9#

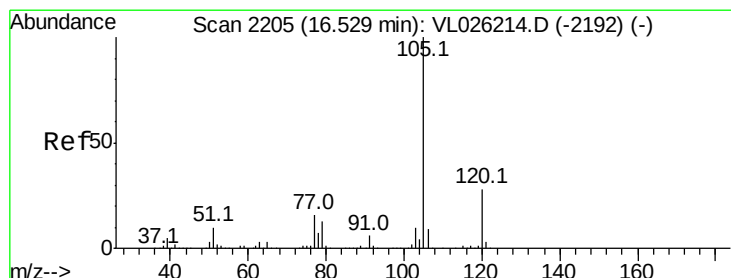
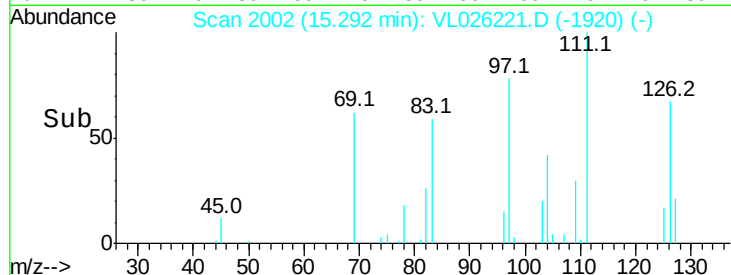
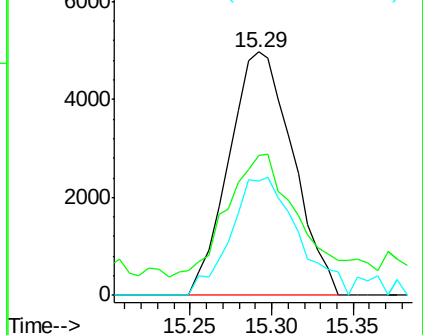
103 54.6 37.0 55.4



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: 0.25 ppbv

RT: 16.52 min Scan# 2204

Delta R.T. -0.01 min

Lab File: VL026221.D

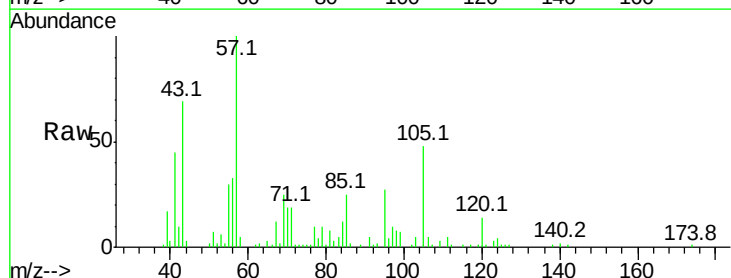
Acq: 21 Oct 2015 1:02

Tgt Ion:105 Resp: 86788

Ion Ratio Lower Upper

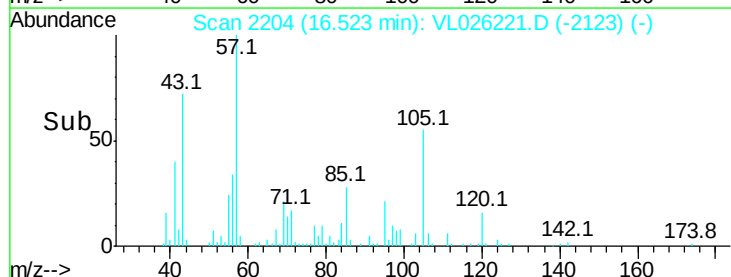
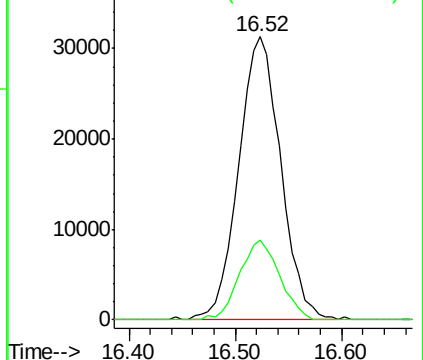
105 100

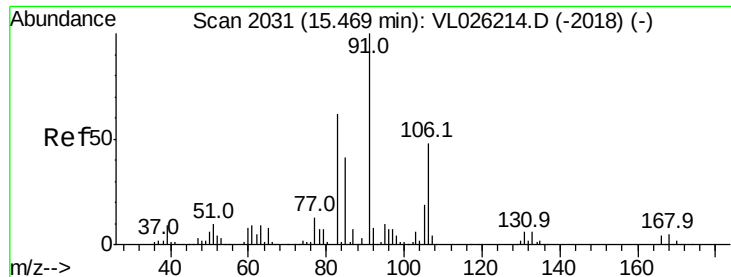
120 26.9 21.8 32.8



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: 0.45 ppbv

RT: 15.46 min Scan# 2030

Delta R.T. -0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

SS-3DL

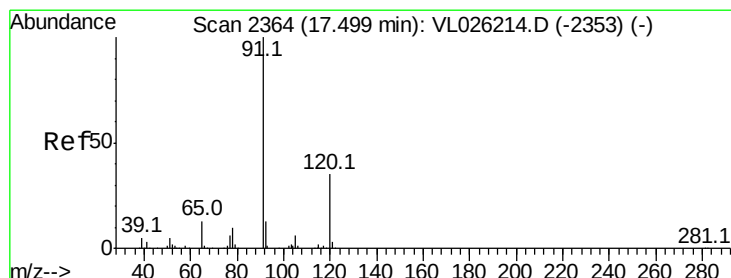
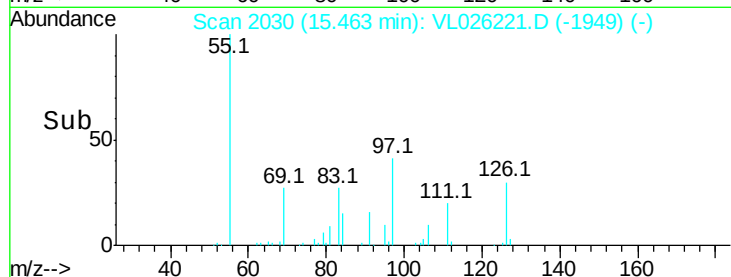
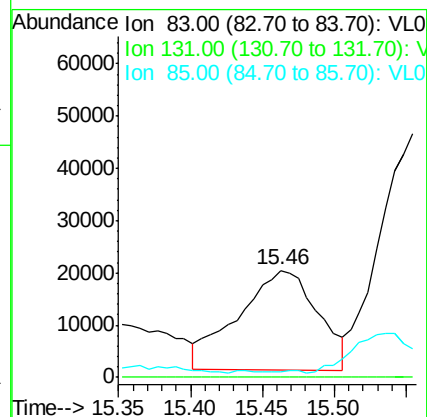
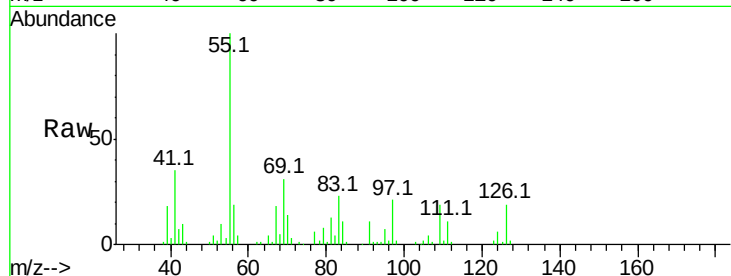
Tot Ion: 83 Resp: 73076

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.3 96.9#



#64

n-propylbenzene

Concen: 0.22 ppbv

RT: 17.49 min Scan# 2363

Delta R.T. -0.01 min

Lab File: VL026221.D

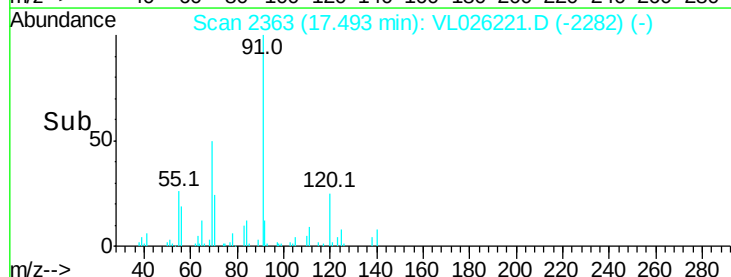
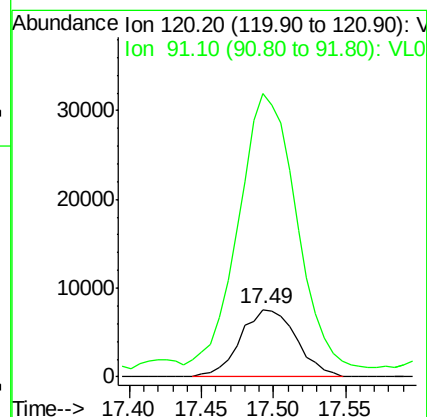
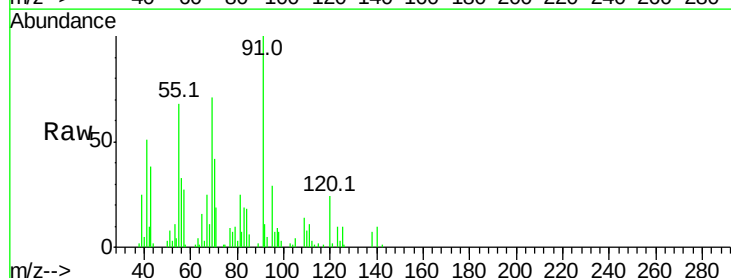
Acq: 21 Oct 2015 1:02

Tgt Ion:120 Resp: 20476

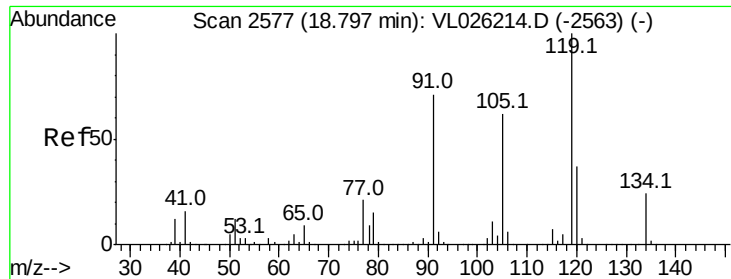
Ion Ratio Lower Upper

120 100

91 470.0 331.7 497.5







#65

tert-Butylbenzene

Concen: 0.14 ppbv

RT: 18.80 min Scan# 2578

Delta R.T. 0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

SS-3DL

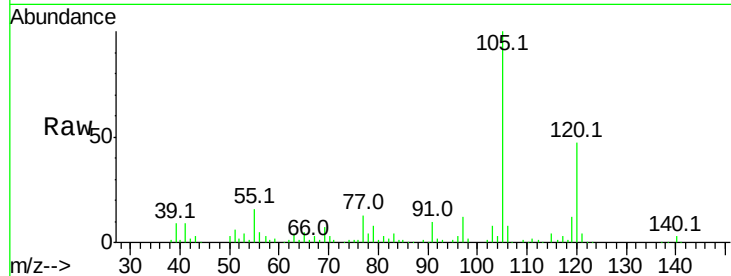
Tot Ion:119 Resp: 44448

Ion Ratio Lower Upper

119 100

91 84.8 57.5 86.3

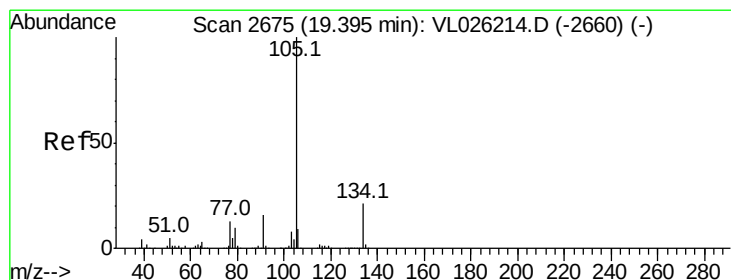
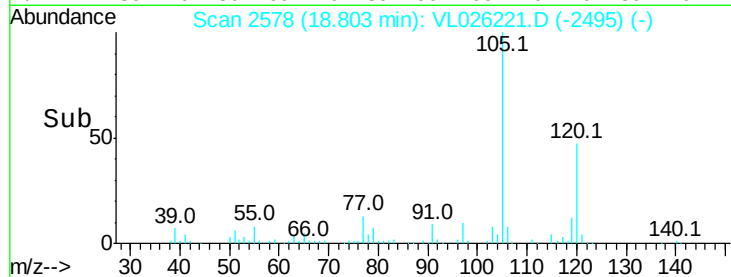
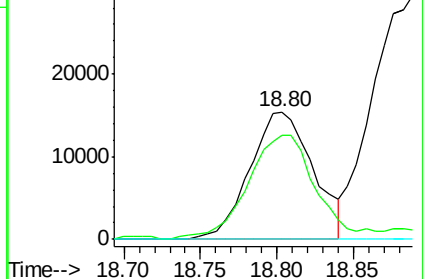
134 0.0 18.1 27.1#



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



#67

sec-Butylbenzene

Concen: 0.06 ppbv

RT: 19.38 min Scan# 2673

Delta R.T. -0.01 min

Lab File: VL026221.D

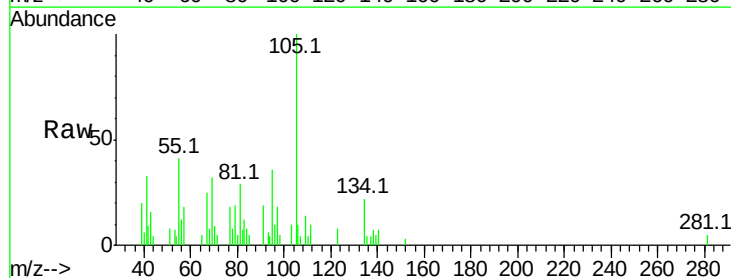
Acq: 21 Oct 2015 1:02

Tgt Ion:105 Resp: 27680

Ion Ratio Lower Upper

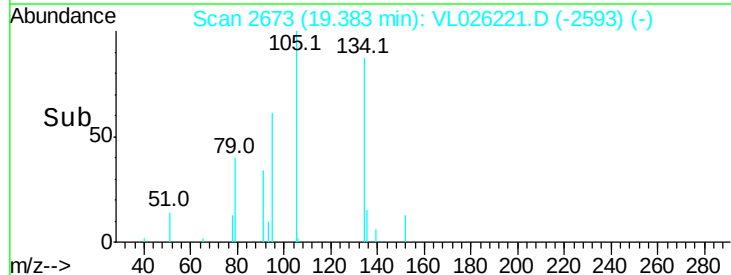
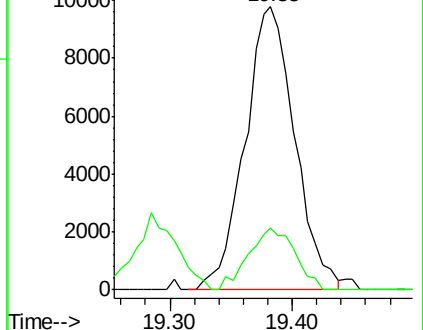
105 100

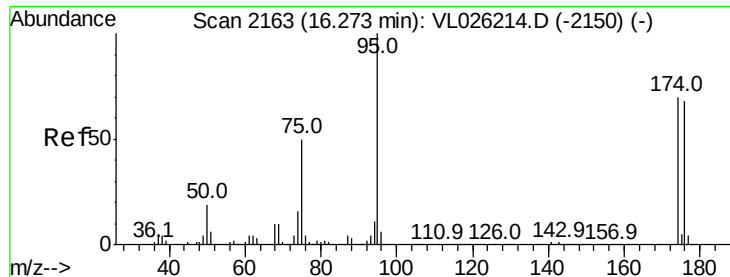
134 20.4 16.2 24.4



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: 11.73 ppbv

RT: 16.27 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampleId :

SS-3DL

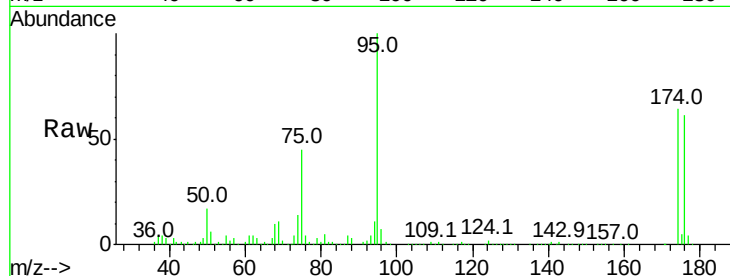
Tot Ion: 95 Resp: 1687541

Ion Ratio Lower Upper

95 100

174 62.7 55.8 83.8

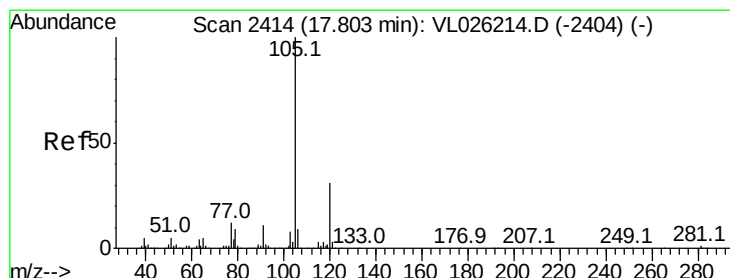
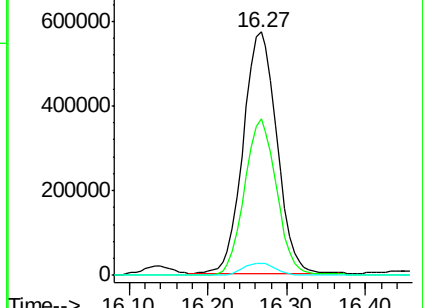
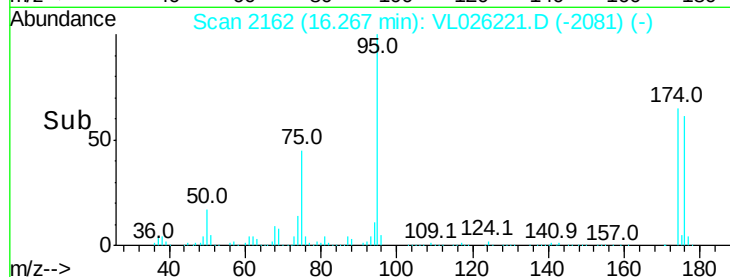
175 5.0 4.3 6.5



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



#72

4-Ethyltoluene

Concen: 0.09 ppbv

RT: 17.80 min Scan# 2413

Delta R.T. -0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Tgt Ion:105 Resp: 24565

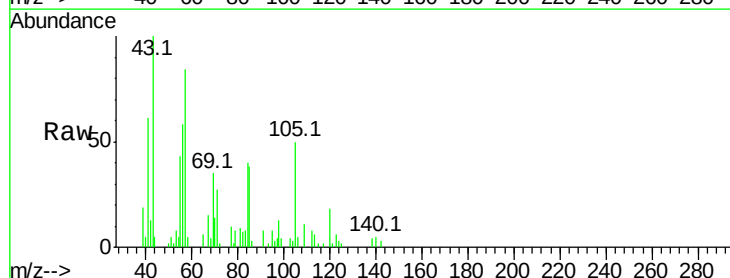
Ion Ratio Lower Upper

105 100

120 30.0 25.2 37.8

91 11.5 9.0 13.6

77 10.0 9.7 14.5

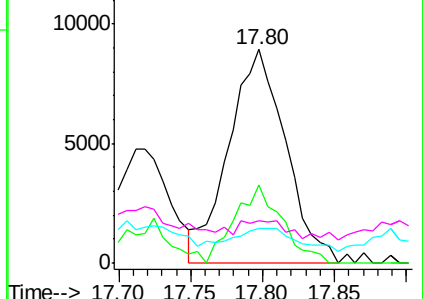
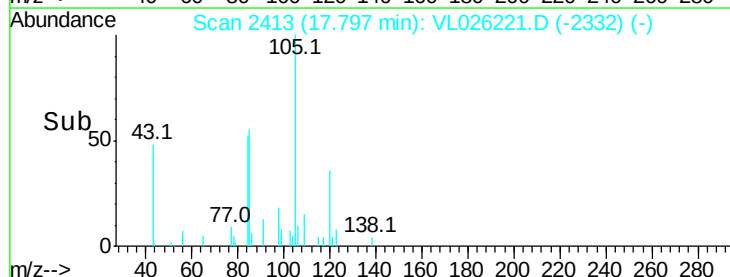


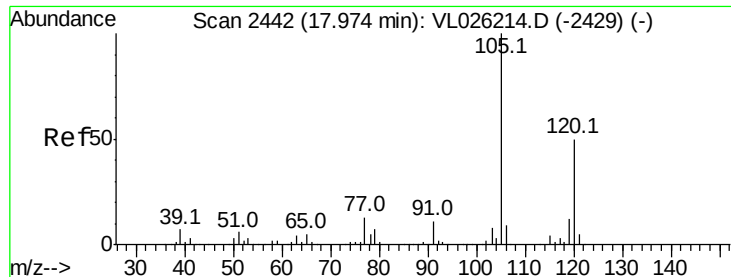
Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.08 ppbv

RT: 17.96 min Scan# 2440

Delta R.T. -0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Instrument :

MSVOA\_L

ClientSampled :

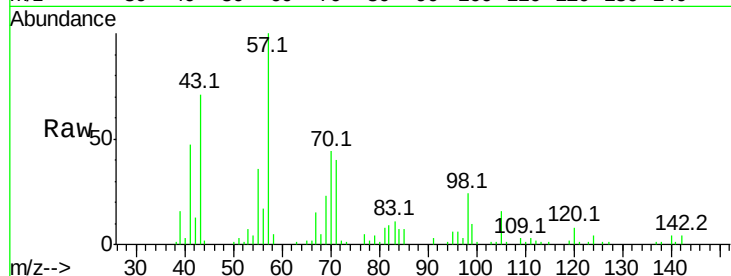
SS-3DL

Tot Ion:105 Resp: 22474

Ion Ratio Lower Upper

105 100

120 52.5 39.8 59.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

17.96

8000

6000

4000

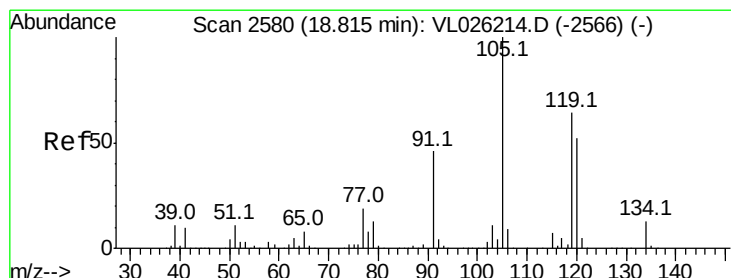
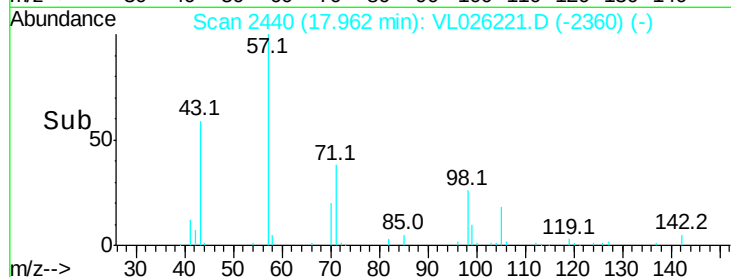
2000

0

17.90

18.00

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.27 ppbv

RT: 18.80 min Scan# 2578

Delta R.T. -0.01 min

Lab File: VL026221.D

Acq: 21 Oct 2015 1:02

Tgt Ion:105 Resp: 352098

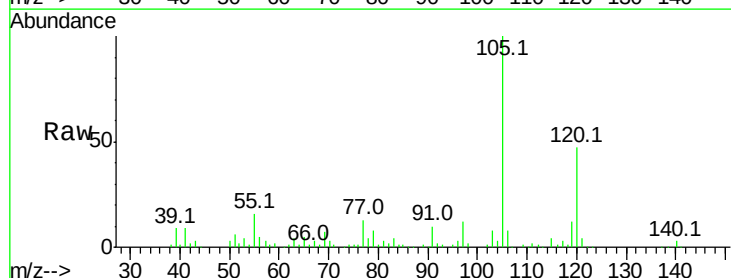
Ion Ratio Lower Upper

105 100

120 46.6 41.2 61.8

91 9.4 37.2 55.8#

77 13.0 15.6 23.4#



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

200000

150000

100000

50000

0

18.70

18.80

Time-->

