

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\  
 Data File : VL025761.D  
 Acq On : 27 Jul 2015 20:17  
 Operator : SY/MD  
 Sample : G3092-03  
 Misc : 400mL/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 A-217-B

Quant Time: Jul 28 01:02:51 2015  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul 08 02:22:55 2015  
 QLast Update : Wed Jul 08 02:22:55 2015  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 6.65  | 49   | 669252   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 8.32  | 114  | 1798408  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 13.74 | 117  | 2182865  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 16.29  | 95    | 1817633  | 9.87     | ppbv | 0.00   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.70% |

| Target Compounds               |       |     |         |        |        | Ovalue |
|--------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.64  | 85  | 44464   | 0.26   | ppbv   | 93     |
| 3) Chlorodifluoromethane       | 3.57  | 51  | 92815   | 0.98   | ppbv   | 93     |
| 4) Chloromethane               | 3.75  | 50  | 20006   | 0.46   | ppbv   | 98     |
| 9) Propene                     | 3.82  | 41  | 8018903 | 255.91 | ppbv   | 96     |
| 10) Heptane                    | 9.35  | 43  | 16369   | 0.13   | ppbv   | 92     |
| 11) Trichlorofluoromethane     | 4.70  | 101 | 43839   | 0.19   | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluoroet | 5.31  | 101 | 7834    | 0.06   | ppbv   | 90     |
| 13) Ethanol                    | 4.32  | 45  | 335143  | 68.79  | ppbv   | 98     |
| 15) Acetone                    | 4.59  | 43  | 1879355 | 15.90  | ppbv   | 99     |
| 16) 1,3-Butadiene              | 4.00  | 39  | 224751  | 4.78   | ppbv # | 15     |
| 17) tert-Butyl alcohol         | 5.14  | 59  | 43826   | 0.44   | ppbv   | 97     |
| 19) Isopropyl Alcohol          | 4.75  | 45  | 573900  | 12.16  | ppbv # | 98     |
| 20) Methylene Chloride         | 5.15  | 84  | 277843  | 5.78   | ppbv   | 98     |
| 23) Vinyl Acetate              | 5.98  | 43  | 75860   | 0.42   | ppbv # | 1      |
| 25) Ethyl Acetate              | 6.66  | 43  | 97042   | 0.54   | ppbv # | 82     |
| 26) Hexane                     | 6.66  | 57  | 135002  | 1.60   | ppbv # | 48     |
| 27) Carbon Disulfide           | 5.39  | 76  | 6690    | 0.05   | ppbv # | 1      |
| 29) Chloroform                 | 6.75  | 83  | 21138   | 0.13   | ppbv   | 89     |
| 30) Cyclohexane                | 8.31  | 84  | 12611   | 0.16   | ppbv # | 23     |
| 34) 2-Butanone                 | 6.20  | 43  | 80259   | 0.79   | ppbv   | 97     |
| 35) Carbon Tetrachloride       | 8.16  | 117 | 11276   | 0.06   | ppbv   | 85     |
| 36) Benzene                    | 8.02  | 78  | 28092   | 0.16   | ppbv   | 97     |
| 41) Tetrahydrofuran            | 7.10  | 42  | 1902    | 0.04   | ppbv # | 34     |
| 42) Bromodichloromethane       | 9.02  | 83  | 6167    | 0.03   | ppbv # | 85     |
| 44) 2,2,4-Trimethylpentane     | 9.09  | 57  | 61576   | 0.21   | ppbv # | 76     |
| 52) Tetrachloroethene          | 12.79 | 164 | 312965  | 3.62   | ppbv   | 97     |
| 53) Toluene                    | 11.24 | 91  | 209696  | 0.87   | ppbv   | 99     |
| 58) Ethyl Benzene              | 14.41 | 91  | 44985   | 0.12   | ppbv   | 92     |
| 59) m/p-Xylene                 | 14.69 | 91  | 166021  | 0.52   | ppbv   | 97     |
| 60) o-Xylene                   | 15.49 | 91  | 87452   | 0.26   | ppbv   | 98     |
| 61) Styrene                    | 15.31 | 104 | 14933   | 0.12   | ppbv   | 96     |
| 62) Isopropylbenzene           | 16.54 | 105 | 34396   | 0.08   | ppbv   | 97     |
| 64) n-propylbenzene            | 17.52 | 120 | 47067   | 0.39   | ppbv   | 92     |
| 65) tert-Butylbenzene          | 18.83 | 119 | 58102   | 0.13   | ppbv # | 58     |
| 67) sec-Butylbenzene           | 19.41 | 105 | 21660   | 0.04   | ppbv   | 99     |
| 69) p-Isopropyltoluene         | 19.79 | 119 | 90882   | 0.18   | ppbv # | 81     |
| 71) 2-Chlorotoluene            | 17.25 | 91  | 62791   | 0.19   | ppbv   | 68     |
| 72) 4-Ethyltoluene             | 17.82 | 105 | 325367  | 0.86   | ppbv   | 96     |
| 73) 1,3,5-Trimethylbenzene     | 17.99 | 105 | 203183  | 0.55   | ppbv   | 100    |
| 74) 1,2,4-Trimethylbenzene     | 18.83 | 105 | 502026  | 1.21   | ppbv # | 68     |
| 75) 1,3-Dichlorobenzene        | 19.27 | 146 | 21355   | 0.08   | ppbv # | 68     |

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\  
Data File : VL025761.D  
Acq On : 27 Jul 2015 20:17  
Operator : SY/MD  
Sample : G3092-03  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
A-217-B

Quant Time: Jul 28 01:02:51 2015  
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jul 08 02:22:55 2015  
QLast Update : Wed Jul 08 02:22:55 2015  
Response via : Initial Calibration

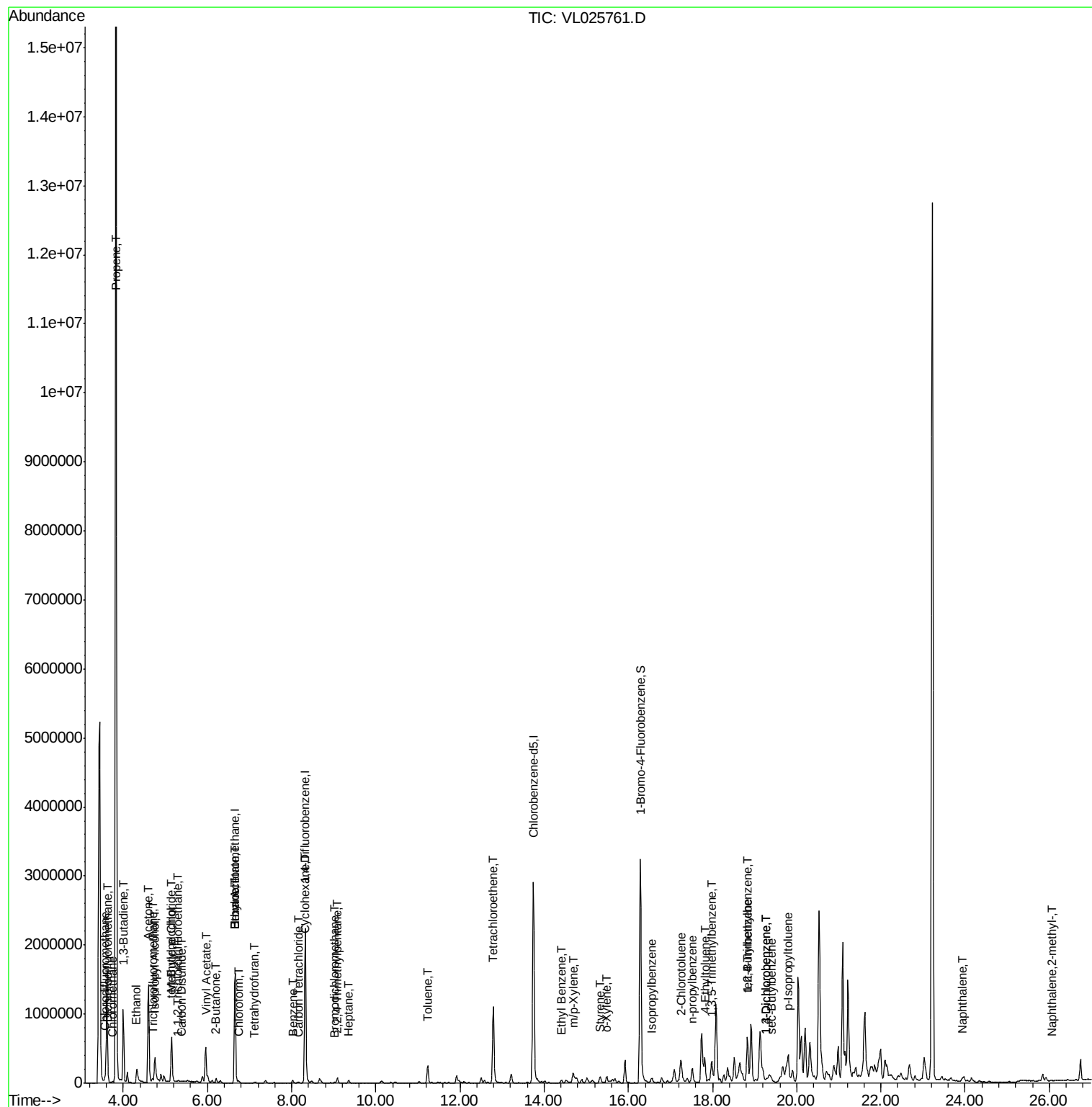
| Internal Standards        | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|---------------------------|-------|------|----------|------|--------|----------|
| 76) 1,4-Dichlorobenzene   | 19.27 | 146  | 21355    | 0.08 | ppbv # | 66       |
| 79) Naphthalene           | 23.93 | 128  | 49597    | 0.12 | ppbv   | 96       |
| 80) Naphthalene,2-methyl- | 26.05 | 142  | 3770     | 0.03 | ppbv # | 72       |

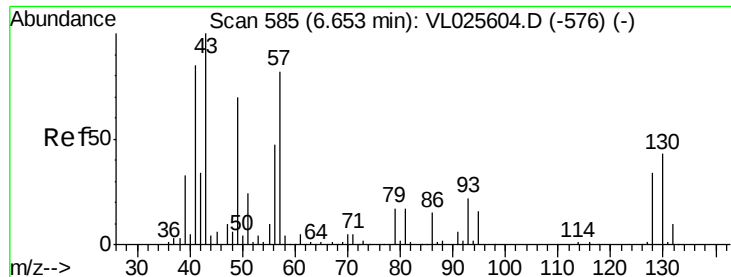
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL072715\  
Data File : VL025761.D  
Acq On : 27 Jul 2015 20:17  
Operator : SY/MD  
Sample : G3092-03  
Misc : 400mL/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
A-217-B

Quant Time: Jul 28 01:02:51 2015  
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Jul 08 02:22:55 2015  
QLast Update : Wed Jul 08 02:22:55 2015  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.65 min Scan# 585

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

A-217-B

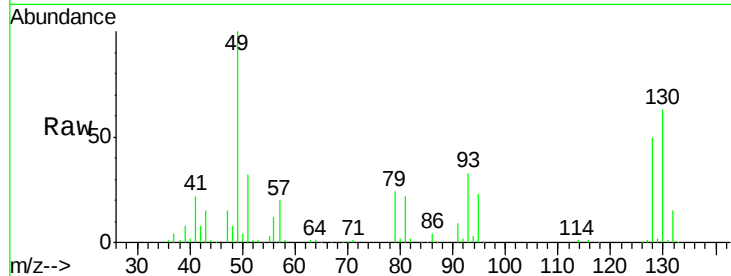
Tot Ion: 49 Resp: 669252

Ion Ratio Lower Upper

49 100

128 50.7 25.4 76.0

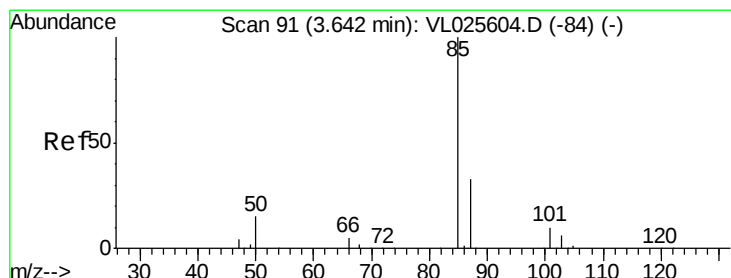
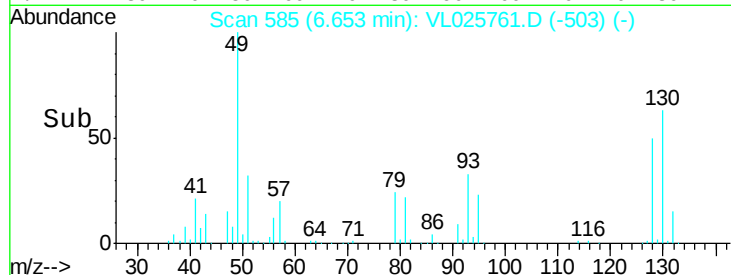
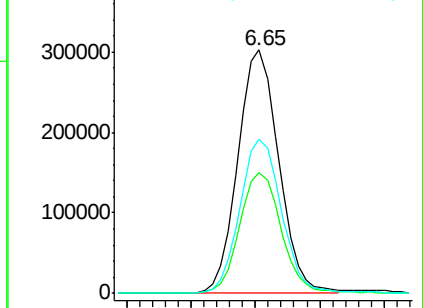
130 65.2 31.9 95.9



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: 0.26 ppbv

RT: 3.64 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL025761.D

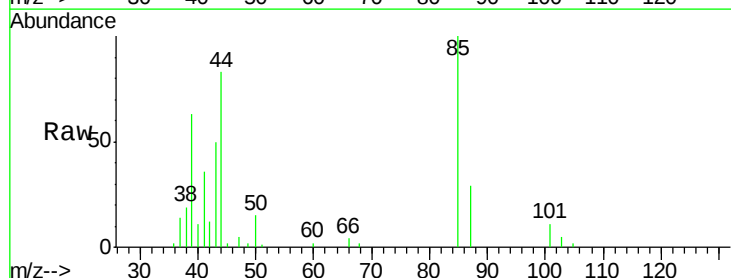
Acq: 27 Jul 2015 20:17

Tgt Ion: 85 Resp: 44464

Ion Ratio Lower Upper

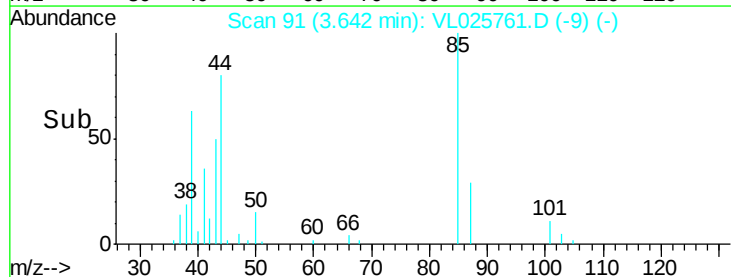
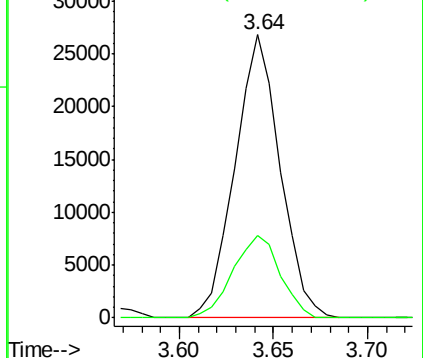
85 100

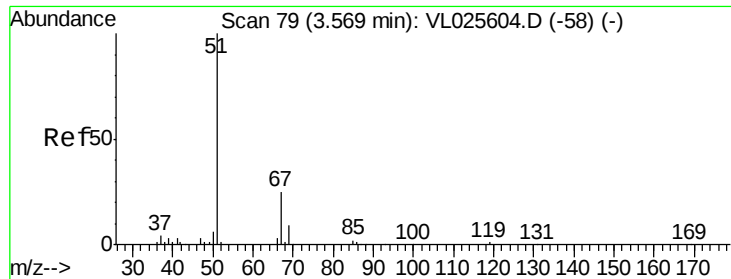
87 29.3 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.98 ppbv

RT: 3.57 min Scan# 79

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

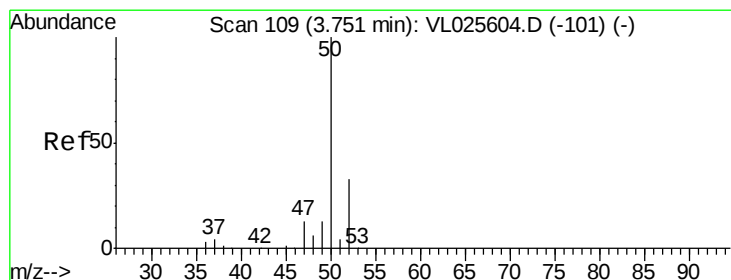
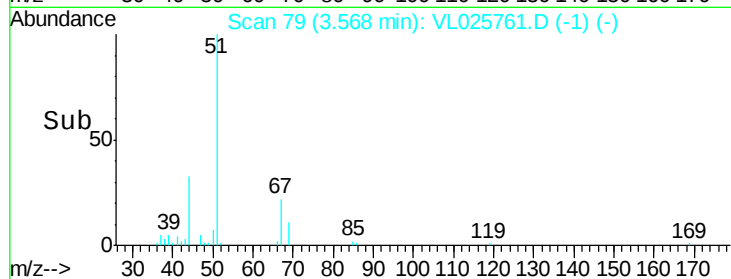
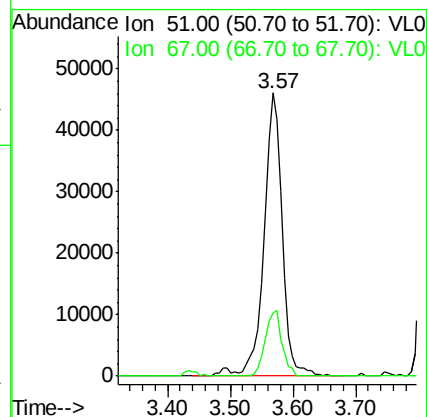
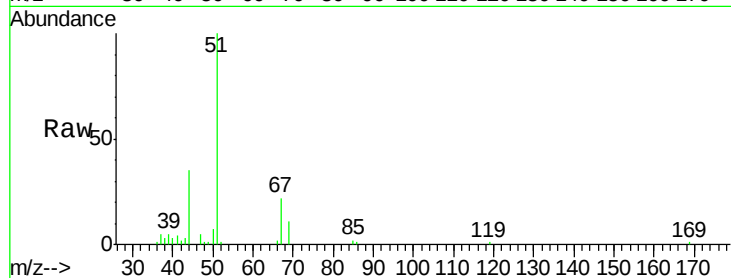
A-217-B

Tot Ion: 51 Resp: 92815

Ion Ratio Lower Upper

51 100

67 21.0 19.5 29.3



#4

Chloromethane

Concen: 0.46 ppbv

RT: 3.75 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL025761.D

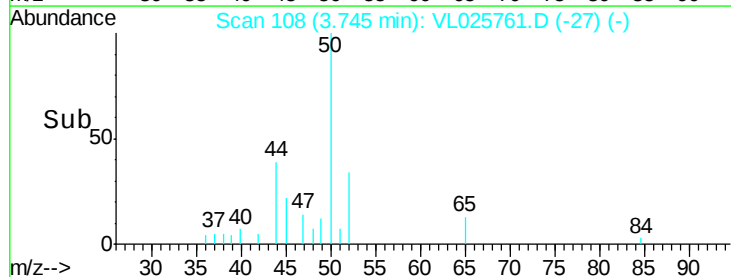
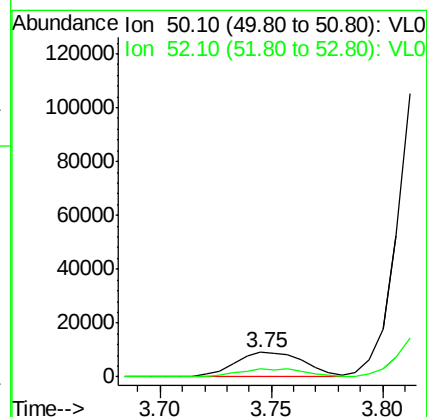
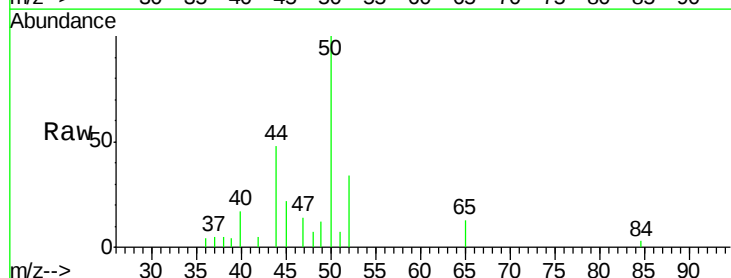
Acq: 27 Jul 2015 20:17

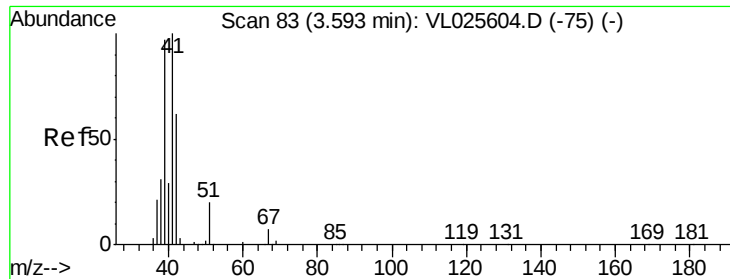
Tgt Ion: 50 Resp: 20006

Ion Ratio Lower Upper

50 100

52 33.8 26.2 39.2





#9

Propene

Concen: 255.91 ppbv

RT: 3.82 min Scan# 121

Delta R.T. 0.23 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

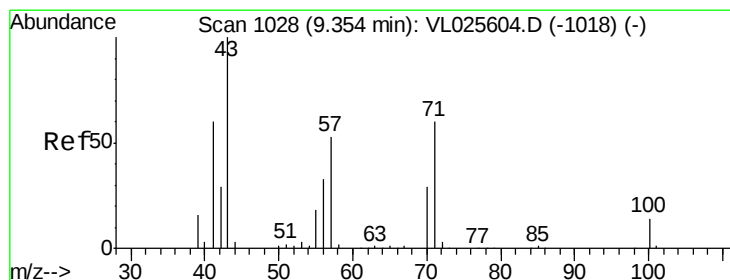
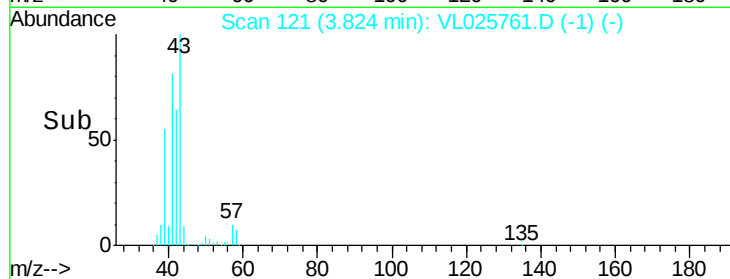
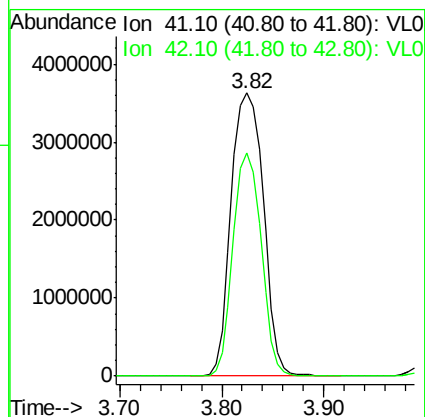
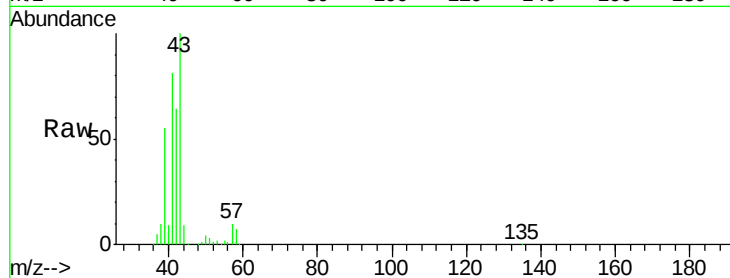
A-217-B

Tot Ion: 41 Resp: 8018903

Ion Ratio Lower Upper

41 100

42 68.8 52.4 78.6



#10

Heptane

Concen: 0.13 ppbv

RT: 9.35 min Scan# 1028

Delta R.T. -0.00 min

Lab File: VL025761.D

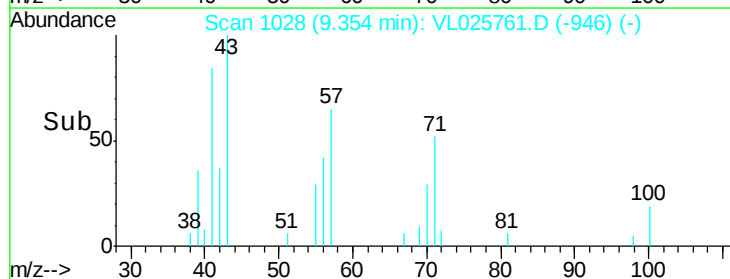
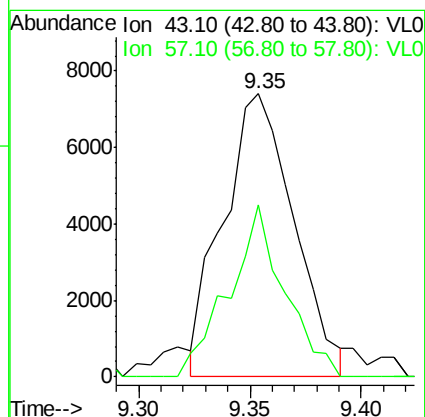
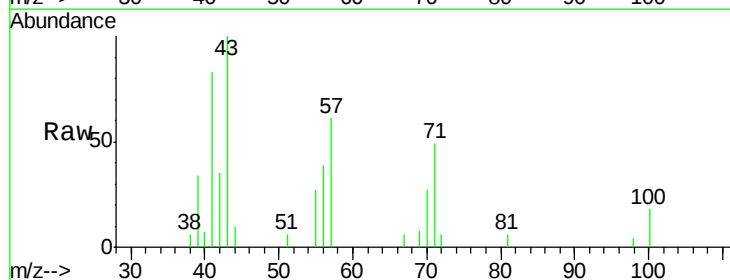
Acq: 27 Jul 2015 20:17

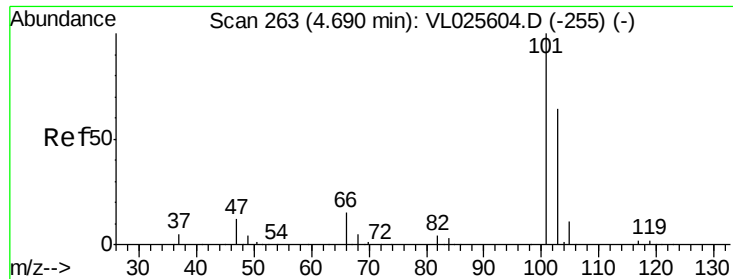
Tgt Ion: 43 Resp: 16369

Ion Ratio Lower Upper

43 100

57 47.7 42.6 64.0





#11

Trichlorofluoromethane

Concen: 0.19 ppbv

RT: 4.70 min Scan# 264

Delta R.T. 0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

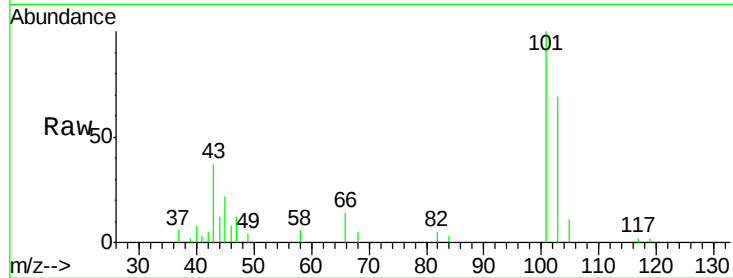
A-217-B

Tot Ion:101 Resp: 43839

Ion Ratio Lower Upper

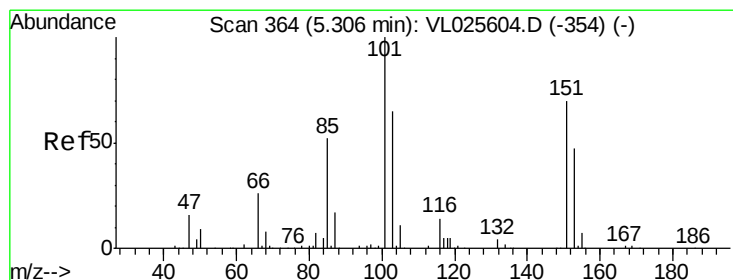
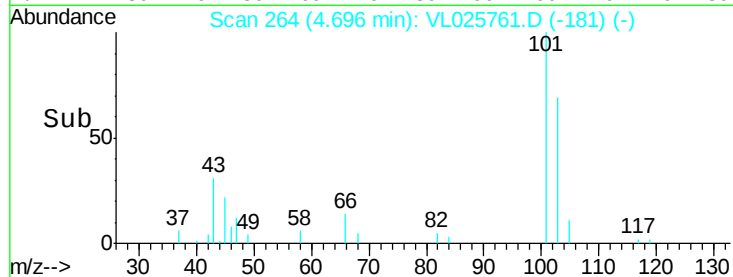
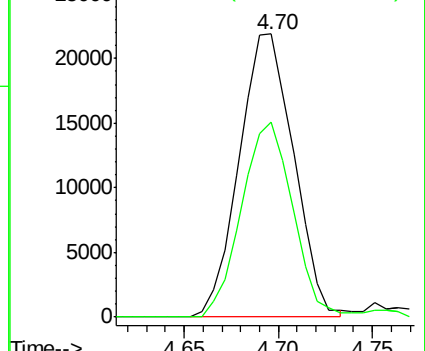
101 100

103 69.1 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.06 ppbv

RT: 5.31 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL025761.D

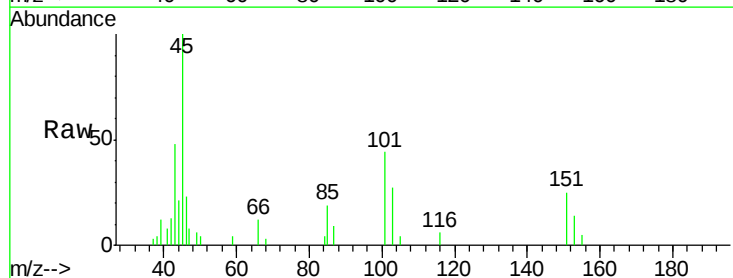
Acq: 27 Jul 2015 20:17

Tgt Ion:101 Resp: 7834

Ion Ratio Lower Upper

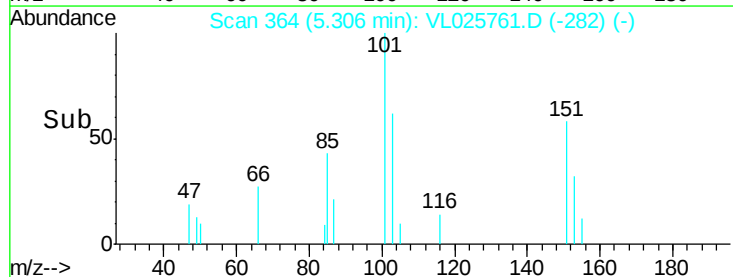
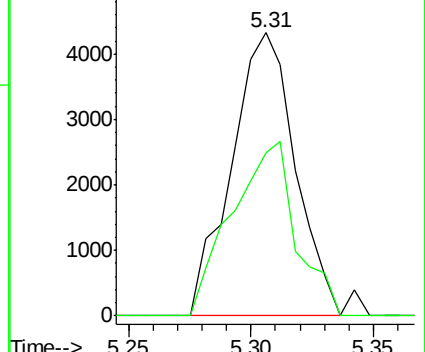
101 100

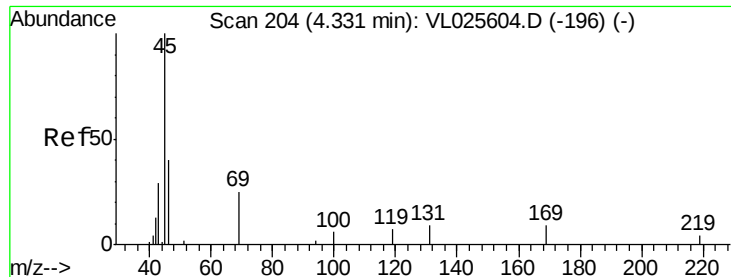
151 62.5 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 68.79 ppbv

RT: 4.32 min Scan# 203

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

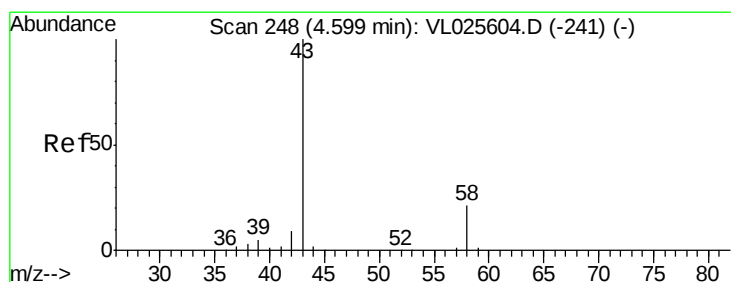
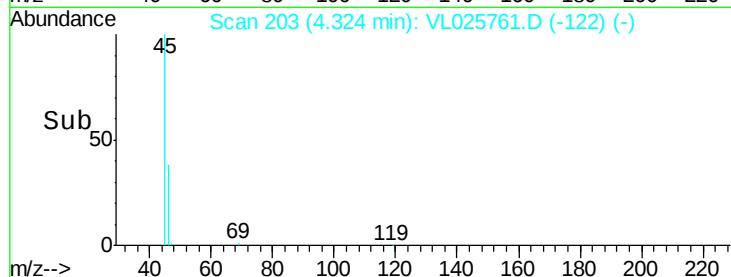
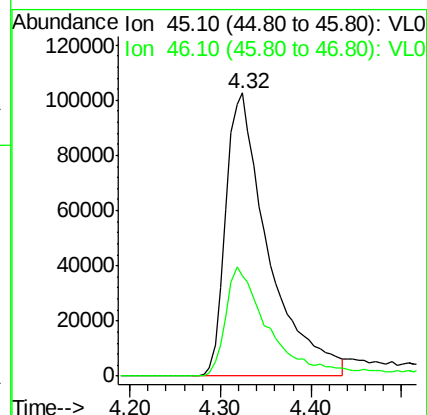
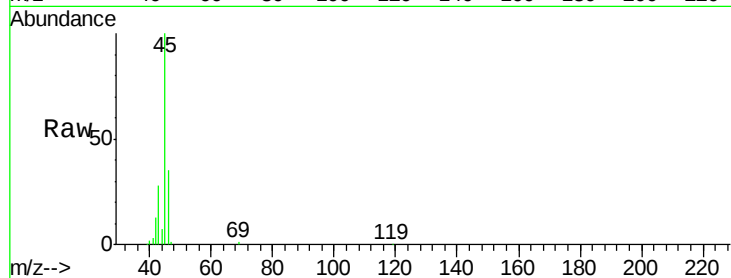
A-217-B

Tot Ion: 45 Resp: 335143

Ion Ratio Lower Upper

45 100

46 41.3 16.0 64.0



#15

Acetone

Concen: 15.90 ppbv

RT: 4.59 min Scan# 247

Delta R.T. -0.01 min

Lab File: VL025761.D

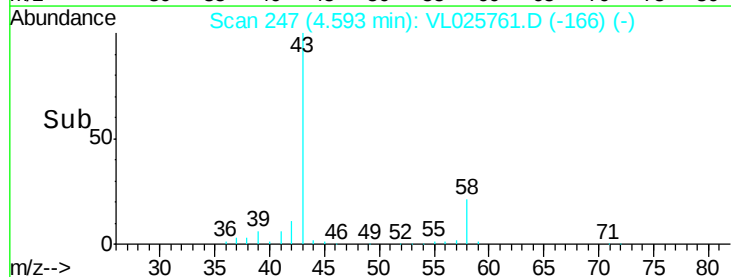
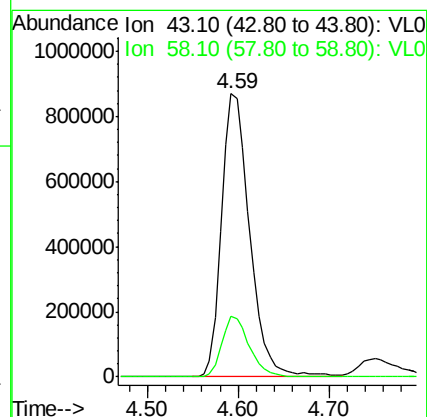
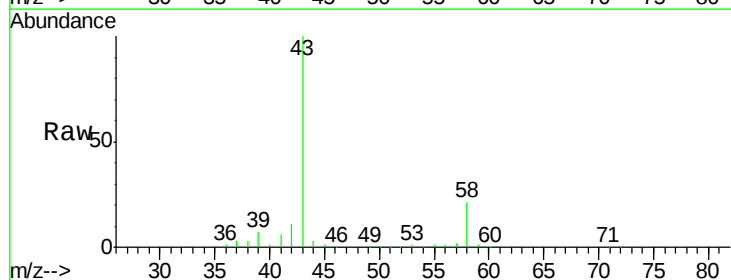
Acq: 27 Jul 2015 20:17

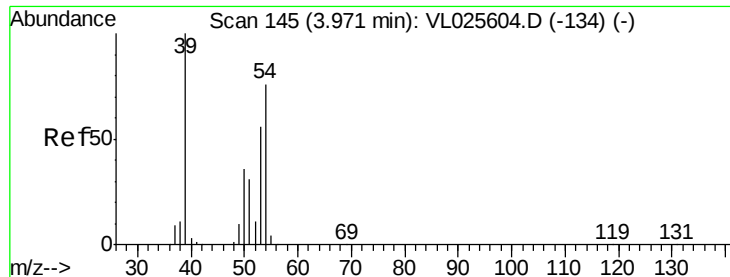
Tgt Ion: 43 Resp: 1879355

Ion Ratio Lower Upper

43 100

58 21.2 17.2 25.8





#16

1,3-Butadiene

Concen: 4.78 ppbv

RT: 4.00 min Scan# 150

Delta R.T. 0.03 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

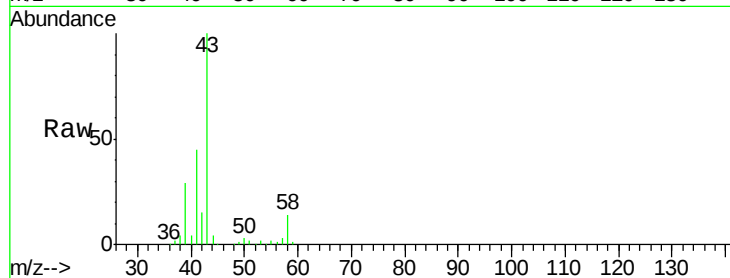
A-217-B

Tot Ion: 39 Resp: 224751

Ion Ratio Lower Upper

39 100

54 2.0 59.3 88.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

4.00

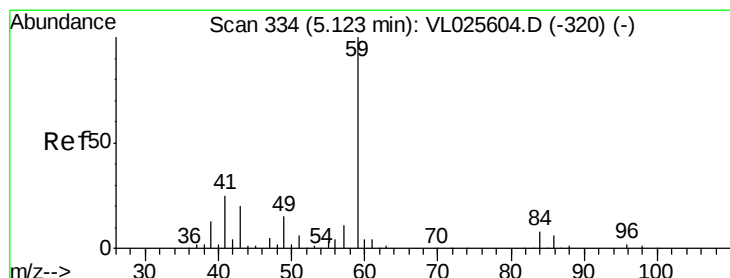
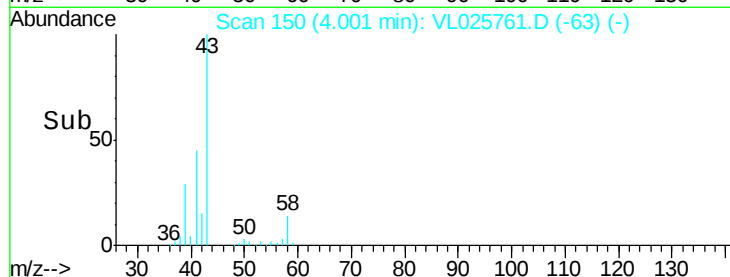
150000

100000

50000

0

Time-->



#17

tert-Butyl alcohol

Concen: 0.44 ppbv

RT: 5.14 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL025761.D

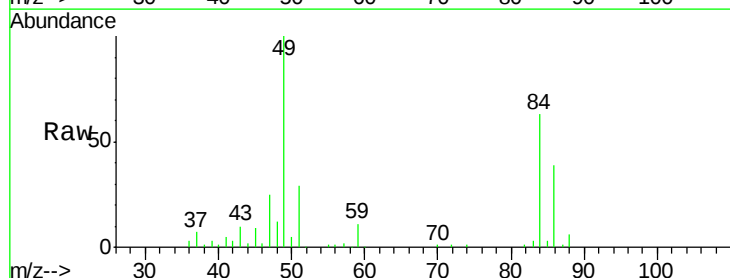
Acq: 27 Jul 2015 20:17

Tgt Ion: 59 Resp: 43826

Ion Ratio Lower Upper

59 100

57 13.1 9.4 14.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

5.14

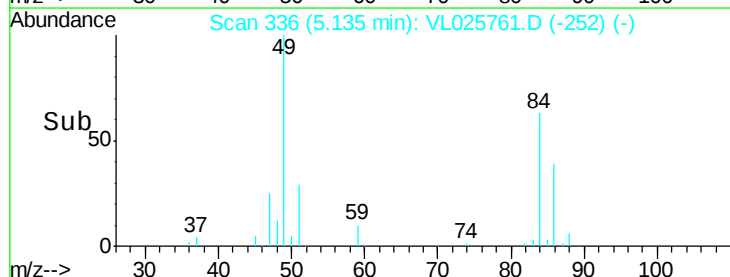
15000

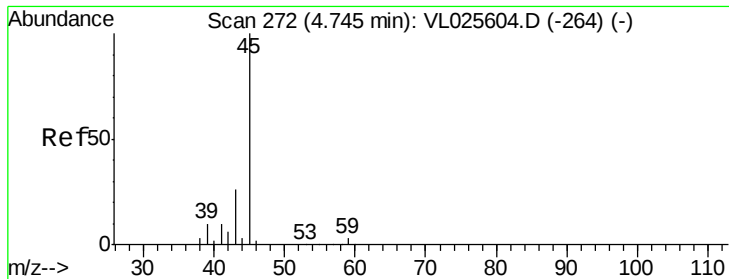
10000

5000

0

Time-->



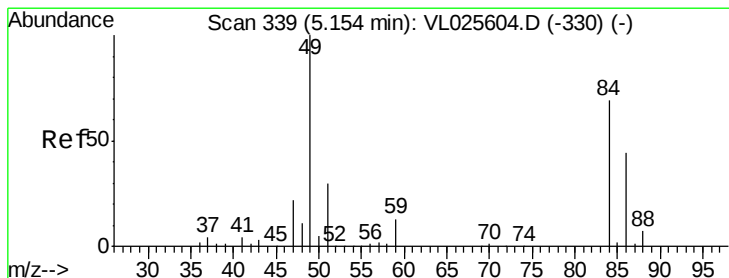
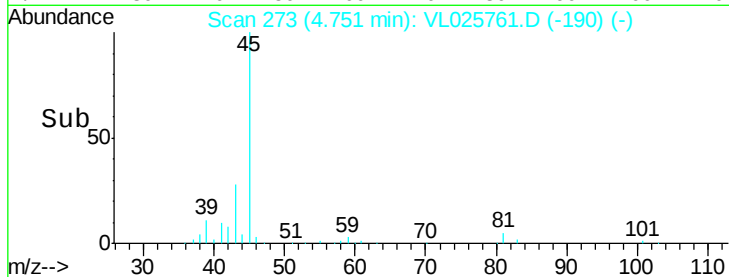
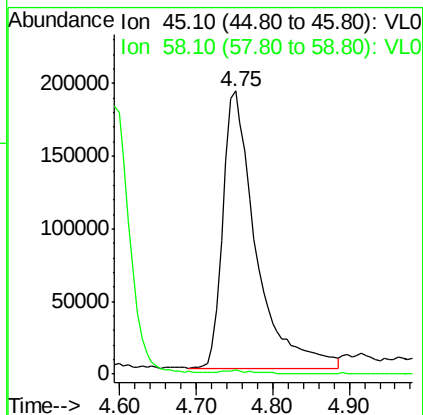
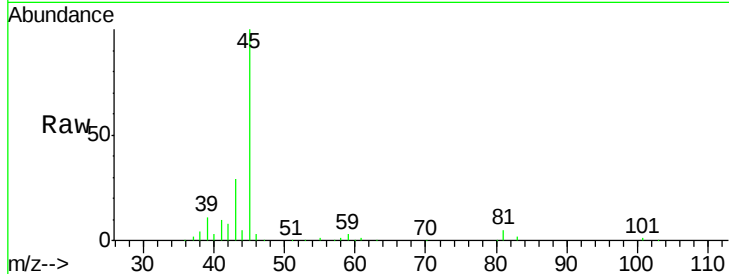


#19

Isopropyl Alcohol  
 Concen: 12.16 ppbv  
 RT: 4.75 min Scan# 273  
 Delta R.T. 0.01 min  
 Lab File: VL025761.D  
 Acq: 27 Jul 2015 20:17

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 A-217-B

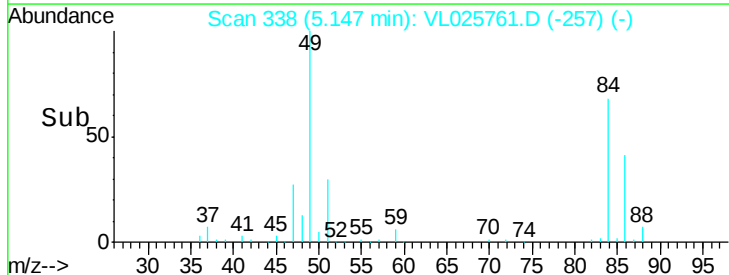
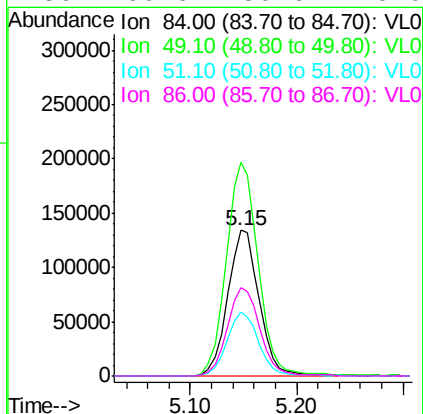
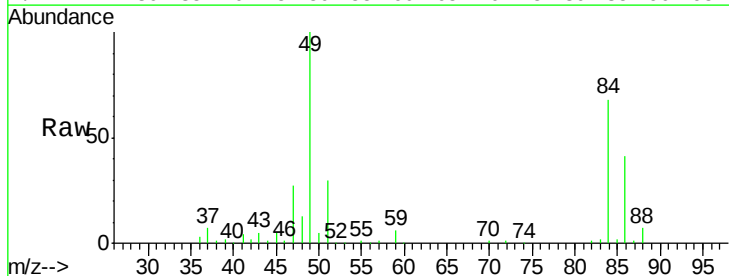
Tot Ion: 45 Resp: 573900  
 Ion Ratio Lower Upper  
 45 100  
 58 2.1 1.1 1.7#

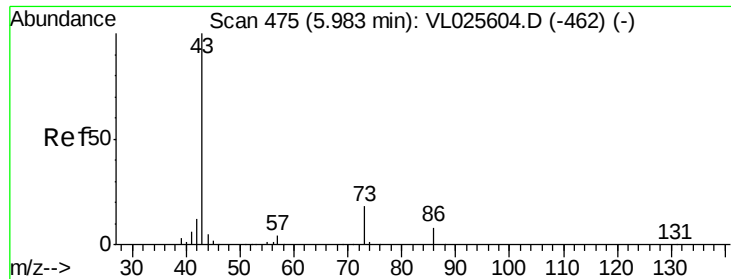


#20

Methylene Chloride  
 Concen: 5.78 ppbv  
 RT: 5.15 min Scan# 338  
 Delta R.T. -0.01 min  
 Lab File: VL025761.D  
 Acq: 27 Jul 2015 20:17

Tgt Ion: 84 Resp: 277843  
 Ion Ratio Lower Upper  
 84 100  
 49 146.9 115.2 172.8  
 51 43.9 35.0 52.6  
 86 60.6 50.6 76.0





#23

Vinyl Acetate

Concen: 0.42 ppbv

RT: 5.98 min Scan# 474

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

A-217-B

Tot Ion: 43 Resp: 75860

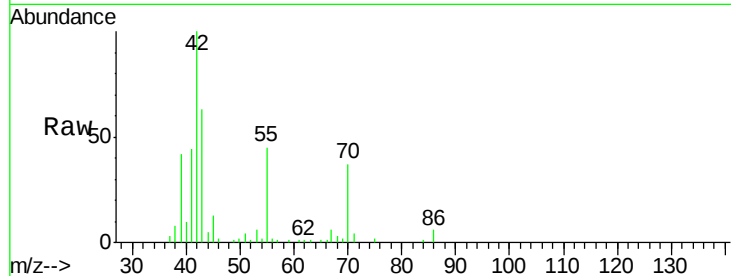
Ion Ratio Lower Upper

43 100

86 9.6 6.7 10.1

42 165.7 9.8 14.6#

44 3.2 4.1 6.1#

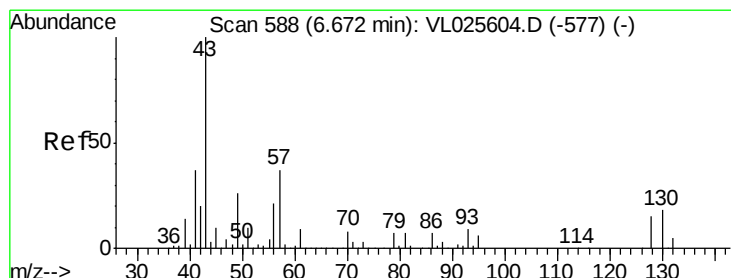
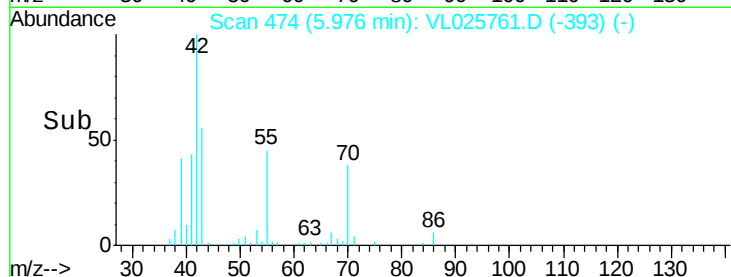
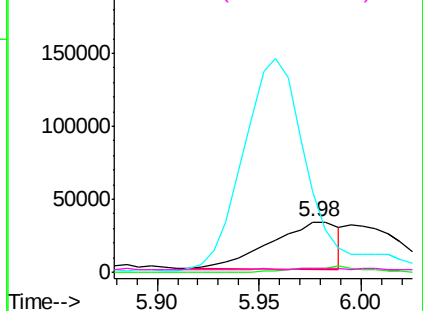


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#25

Ethyl Acetate

Concen: 0.54 ppbv

RT: 6.66 min Scan# 586

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Tgt Ion: 43 Resp: 97042

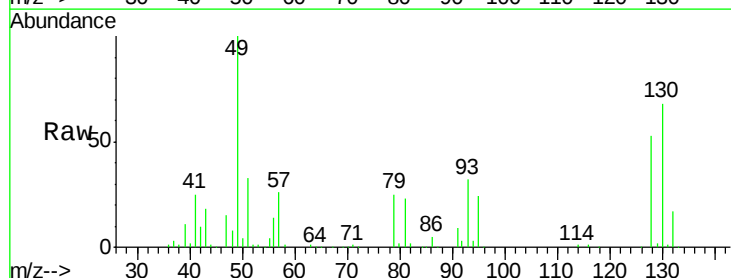
Ion Ratio Lower Upper

43 100

45 2.1 7.5 11.3#

61 1.0 6.6 10.0#

70 2.5 6.0 9.0#

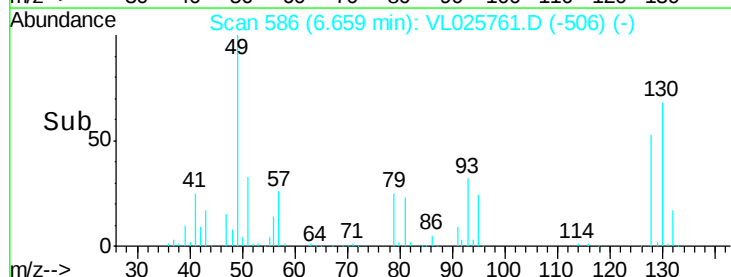
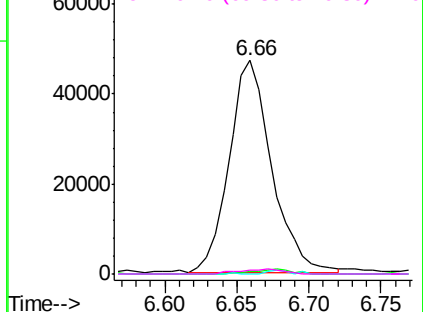


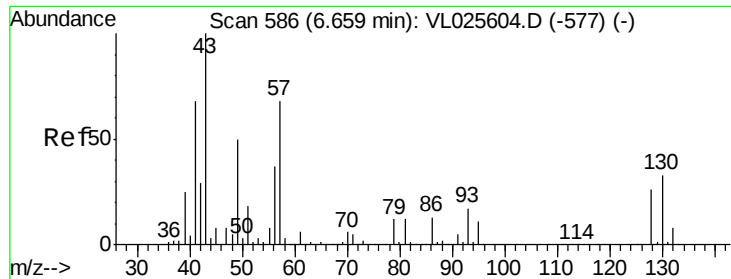
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

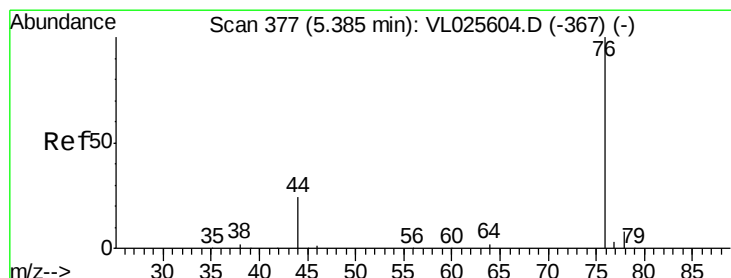
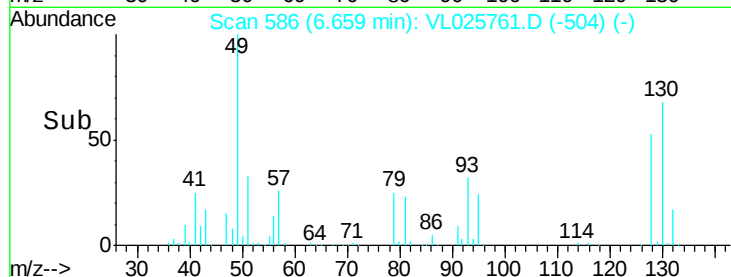
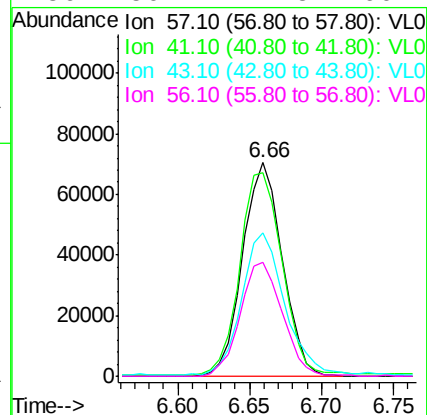
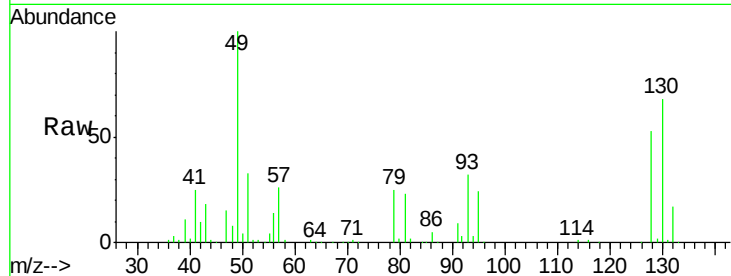




#26  
Hexane  
Concen: 1.60 ppbv  
RT: 6.66 min Scan# 586  
Delta R.T. -0.00 min  
Lab File: VL025761.D  
Acq: 27 Jul 2015 20:17

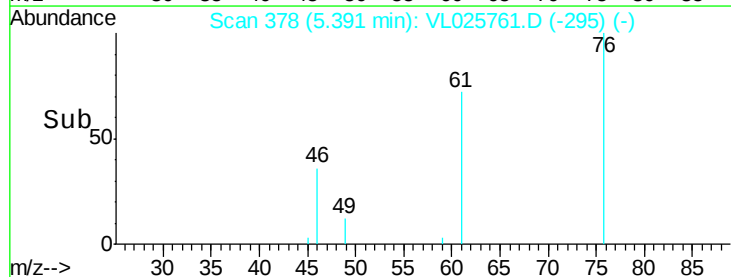
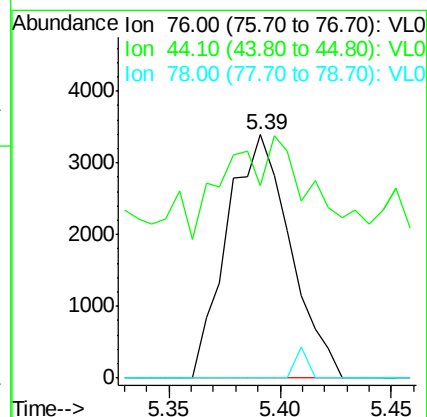
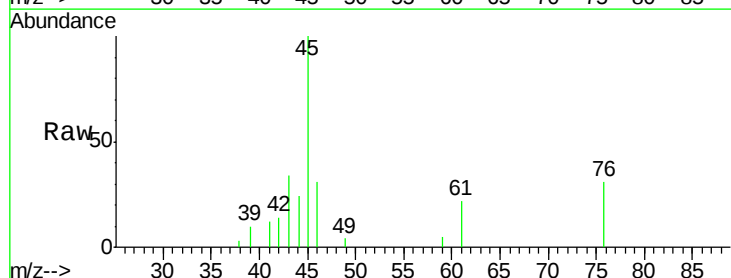
Instrument :  
MSVOA\_L  
ClientSampleId :  
A-217-B

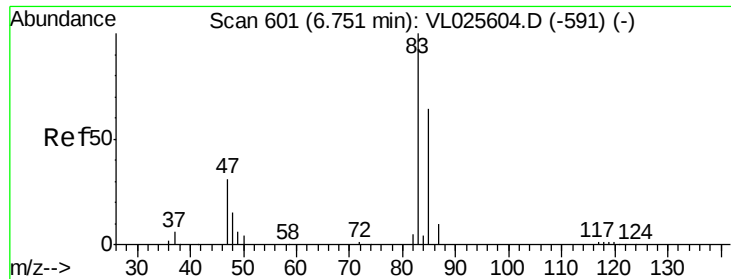
Tot Ion: 57 Resp: 135002  
Ion Ratio Lower Upper  
57 100  
41 105.3 81.4 122.2  
43 73.5 171.4 257.2#  
56 56.4 44.5 66.7



#27  
Carbon Disulfide  
Concen: 0.05 ppbv  
RT: 5.39 min Scan# 378  
Delta R.T. 0.01 min  
Lab File: VL025761.D  
Acq: 27 Jul 2015 20:17

Tgt Ion: 76 Resp: 6690  
Ion Ratio Lower Upper  
76 100  
44 111.4 20.2 30.4#  
78 0.0 7.4 11.2#

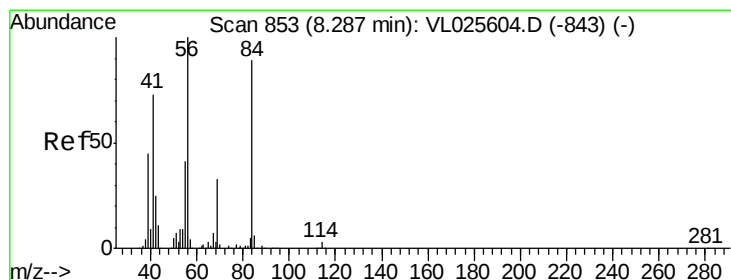
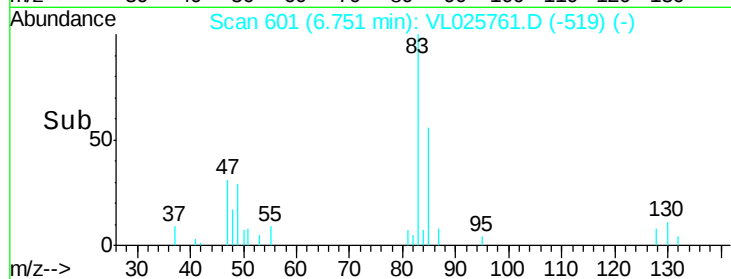
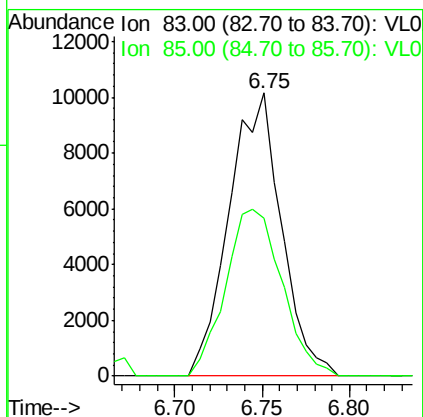
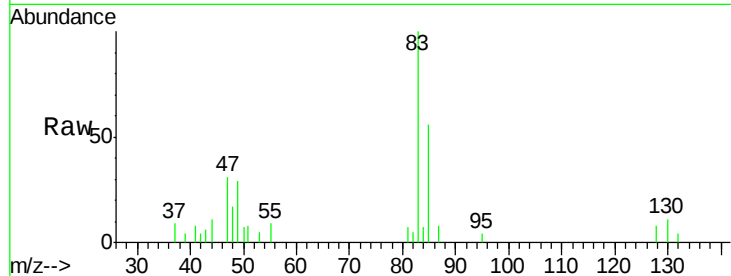




#29  
Chloroform  
Concen: 0.13 ppbv  
RT: 6.75 min Scan# 601  
Delta R.T. -0.00 min  
Lab File: VL025761.D  
Acq: 27 Jul 2015 20:17

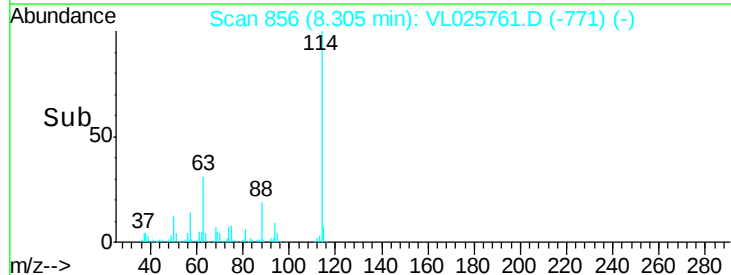
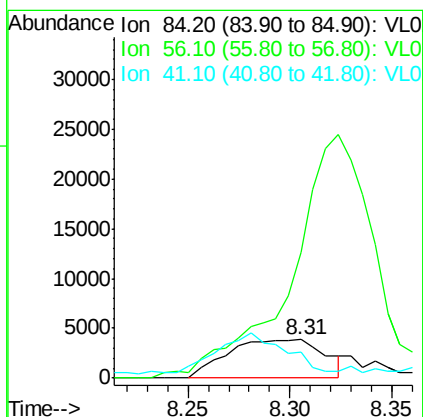
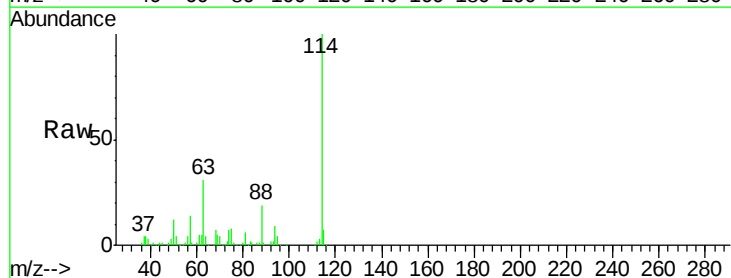
Instrument :  
MSVOA\_L  
ClientSampleId :  
A-217-B

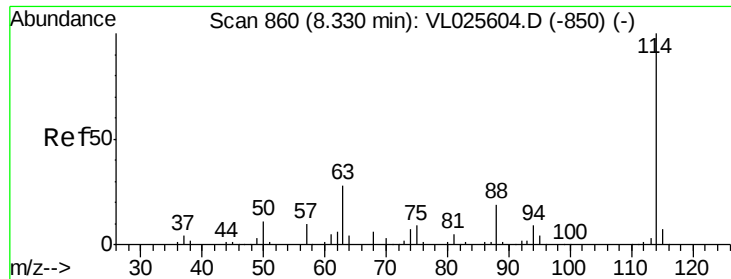
Tot Ion: 83 Resp: 21138  
Ion Ratio Lower Upper  
83 100  
85 55.7 51.6 77.4



#30  
Cyclohexane  
Concen: 0.16 ppbv  
RT: 8.31 min Scan# 856  
Delta R.T. 0.02 min  
Lab File: VL025761.D  
Acq: 27 Jul 2015 20:17

Tgt Ion: 84 Resp: 12611  
Ion Ratio Lower Upper  
84 100  
56 0.0 97.5 146.3#  
41 108.8 65.4 98.2#

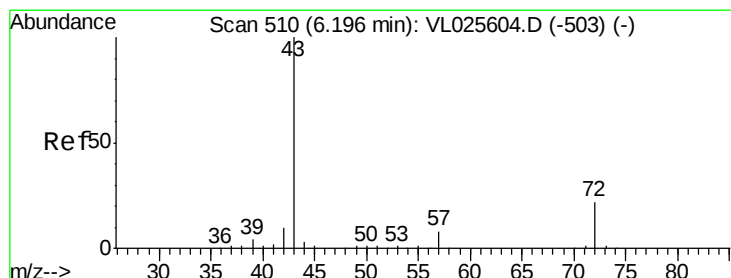
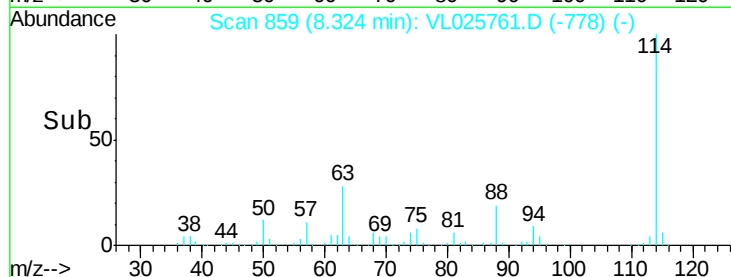
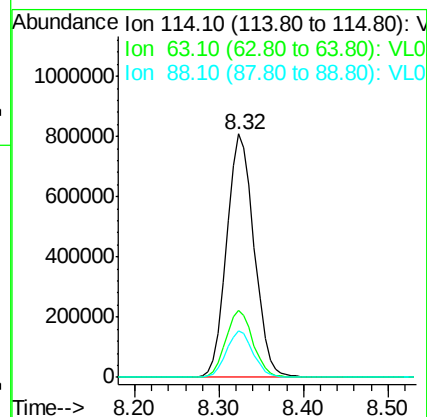
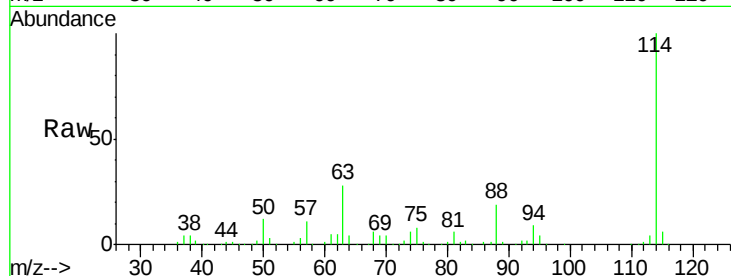




#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 8.32 min Scan# 859  
 Delta R.T. -0.01 min  
 Lab File: VL025761.D  
 Acq: 27 Jul 2015 20:17

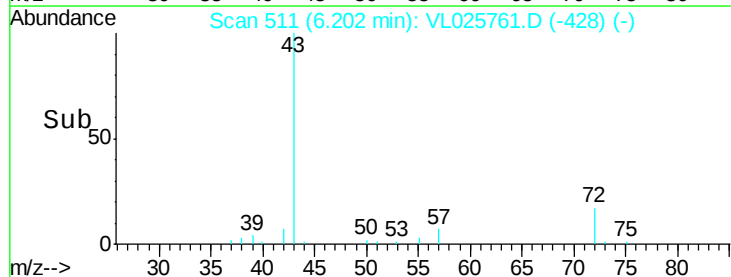
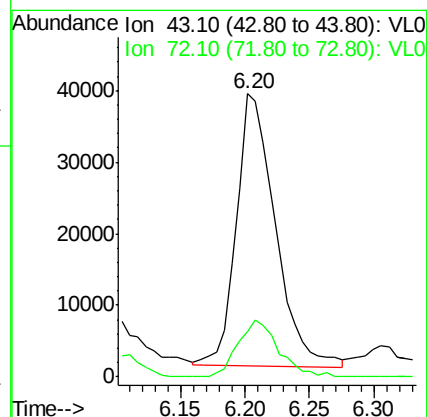
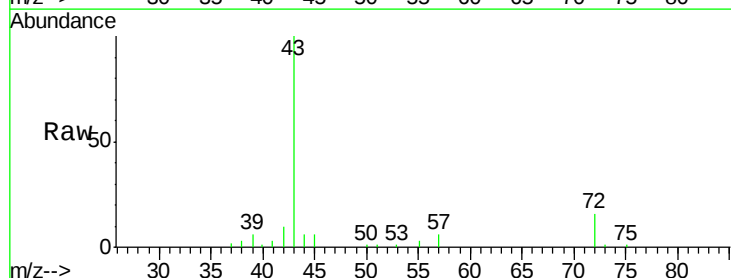
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 A-217-B

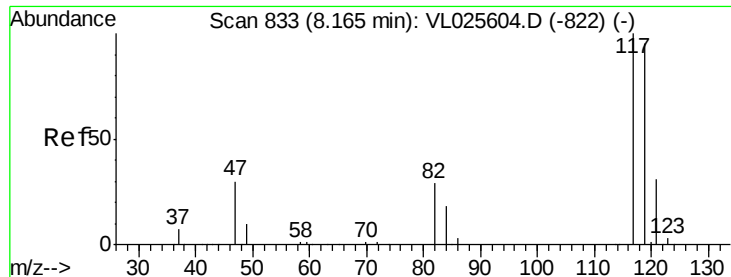
Tot Ion:114 Resp: 1798408  
 Ion Ratio Lower Upper  
 114 100  
 63 27.5 22.4 33.6  
 88 18.6 15.0 22.4



#34  
 2-Butanone  
 Concen: 0.79 ppbv  
 RT: 6.20 min Scan# 511  
 Delta R.T. 0.01 min  
 Lab File: VL025761.D  
 Acq: 27 Jul 2015 20:17

Tgt Ion: 43 Resp: 80259  
 Ion Ratio Lower Upper  
 43 100  
 72 21.7 18.6 28.0





#35

Carbon Tetrachloride

Concen: 0.06 ppbv

RT: 8.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

A-217-B

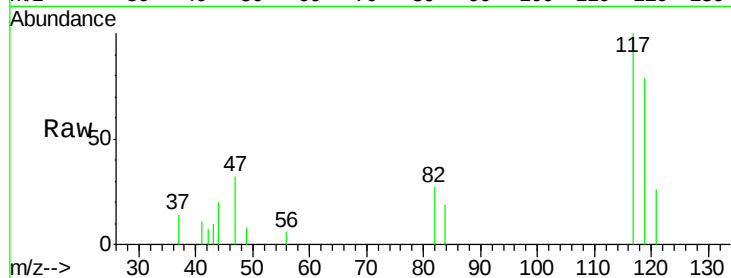
Tot Ion:117 Resp: 11276

Ion Ratio Lower Upper

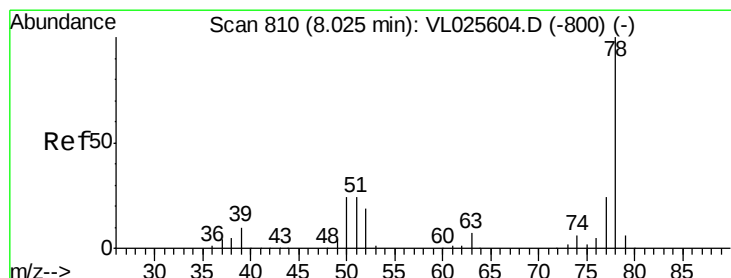
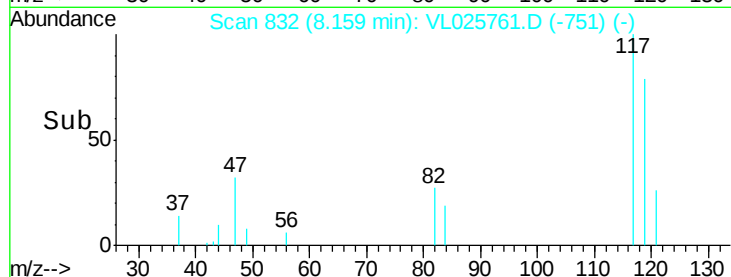
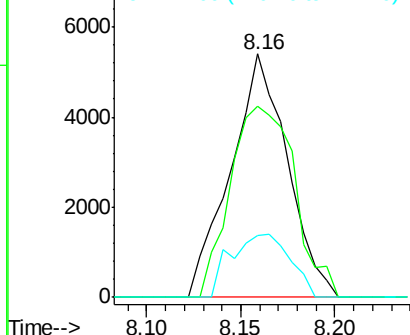
117 100

119 78.6 75.9 113.9

121 25.7 24.4 36.6



Abundance Ion 117.00 (116.70 to 117.70): V  
Ion 119.00 (118.70 to 119.70): V  
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.16 ppbv

RT: 8.02 min Scan# 810

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

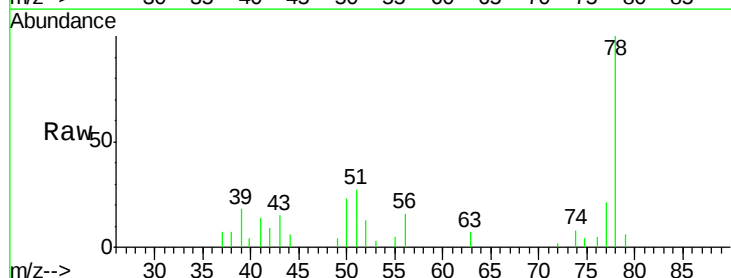
Tgt Ion: 78 Resp: 28092

Ion Ratio Lower Upper

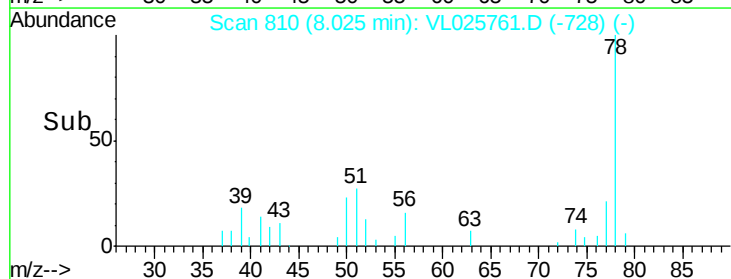
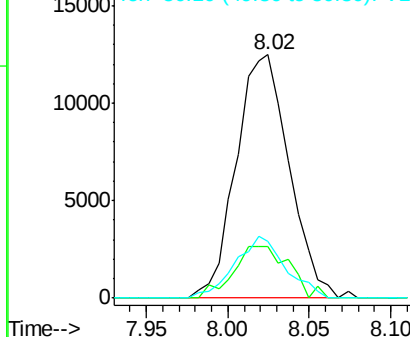
78 100

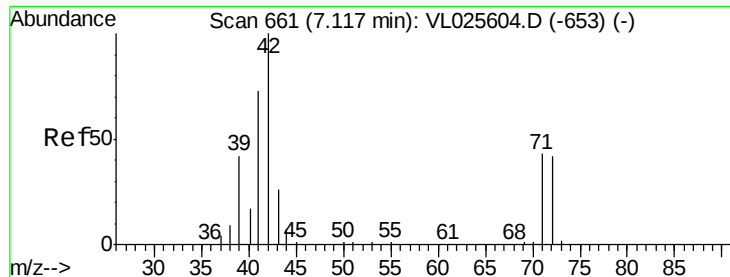
77 21.3 19.0 28.4

50 23.0 19.2 28.8



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





#41

Tetrahydrofuran

Concen: 0.04 ppbv

RT: 7.10 min Scan# 658

Delta R.T. -0.02 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

A-217-B

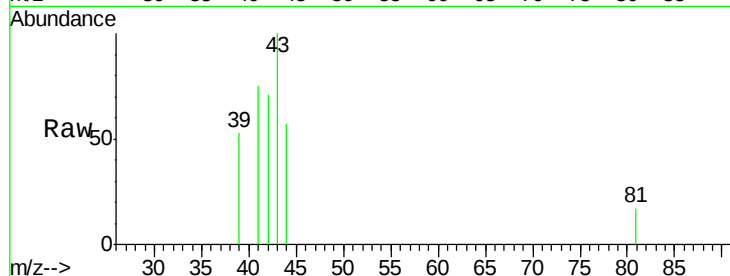
Tot Ion: 42 Resp: 1902

Ion Ratio Lower Upper

42 100

72 0.0 34.0 51.0#

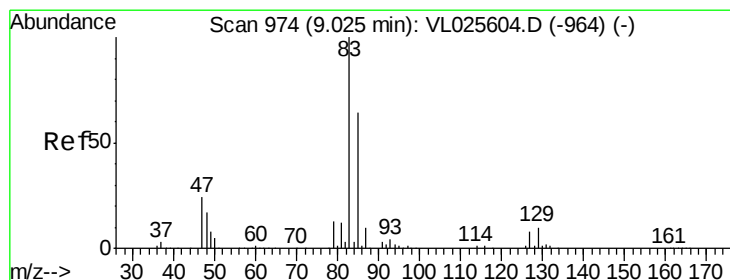
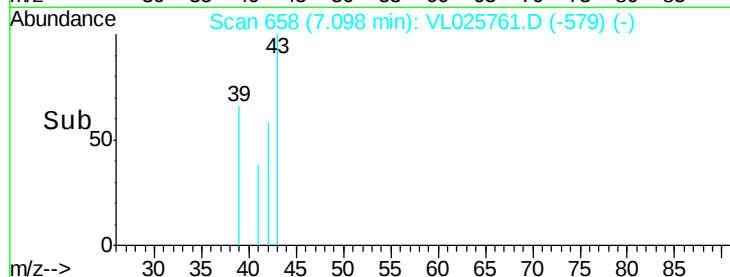
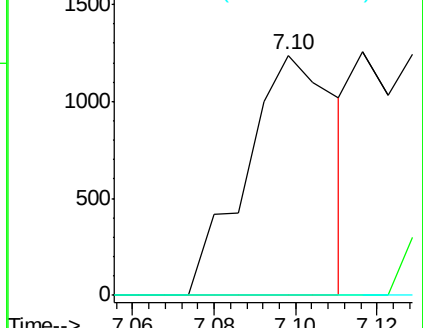
71 0.0 33.0 49.6#



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: 0.03 ppbv

RT: 9.02 min Scan# 973

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

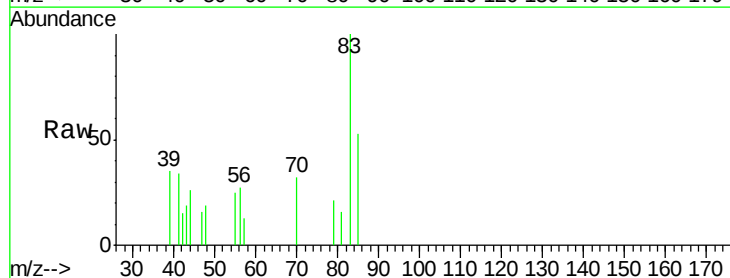
Tgt Ion: 83 Resp: 6167

Ion Ratio Lower Upper

83 100

85 52.6 51.3 76.9

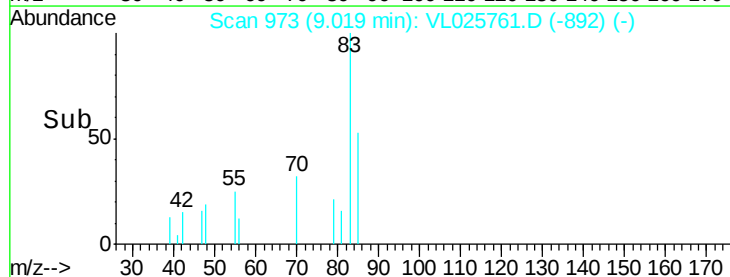
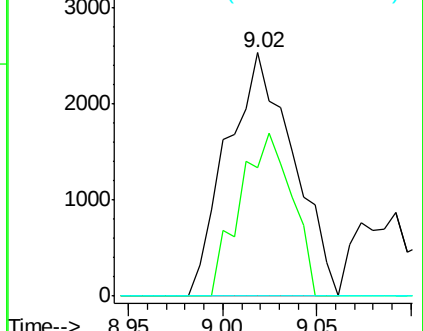
127 0.0 6.0 9.0#

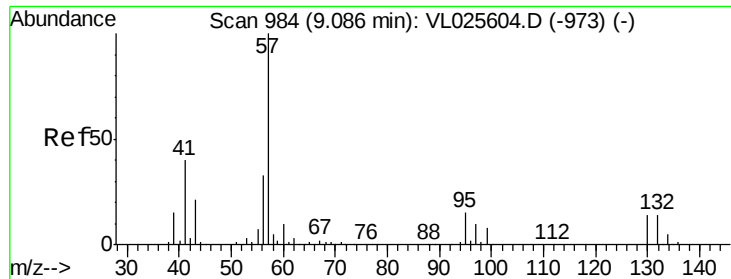


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#44

2,2,4-Trimethylpentane

Concen: 0.21 ppbv

RT: 9.09 min Scan# 984

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

A-217-B

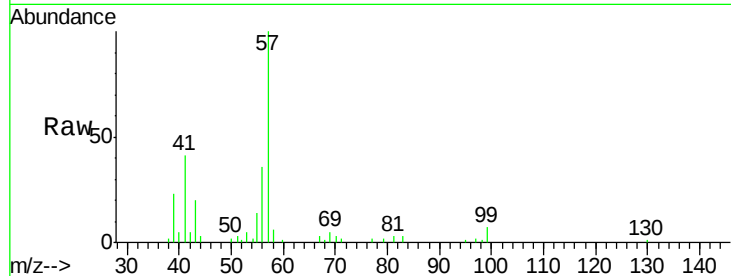
Tot Ion: 57 Resp: 61576

Ion Ratio Lower Upper

57 100

41 51.8 31.2 46.8#

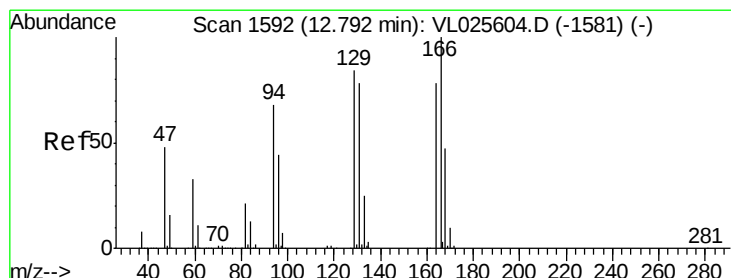
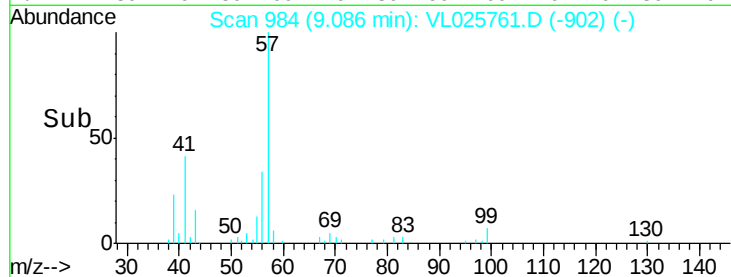
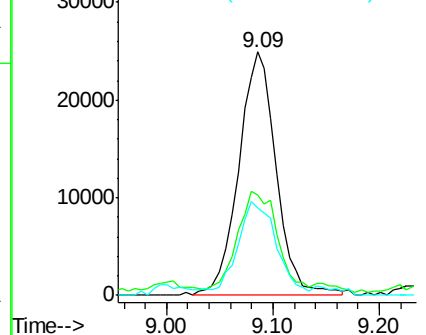
56 46.7 25.4 38.2#



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



#52

Tetrachloroethene

Concen: 3.62 ppbv

RT: 12.79 min Scan# 1592

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Tgt Ion:164 Resp: 312965

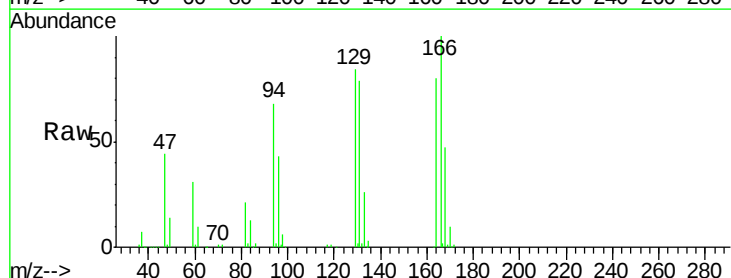
Ion Ratio Lower Upper

164 100

166 124.9 102.3 153.5

129 104.7 86.2 129.4

131 98.3 80.3 120.5

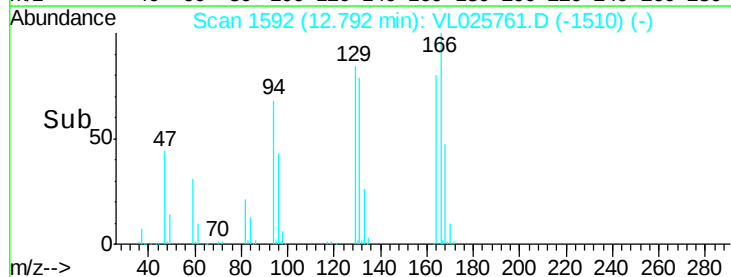
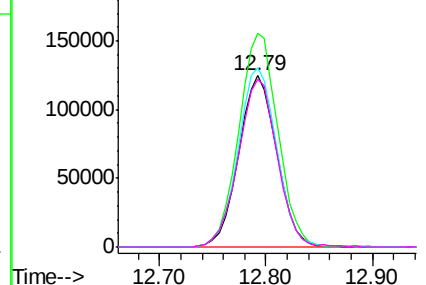


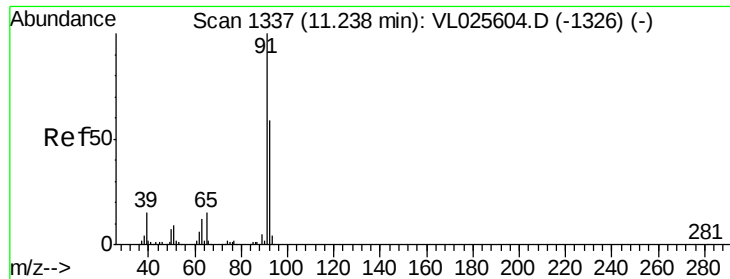
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.87 ppbv

RT: 11.24 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

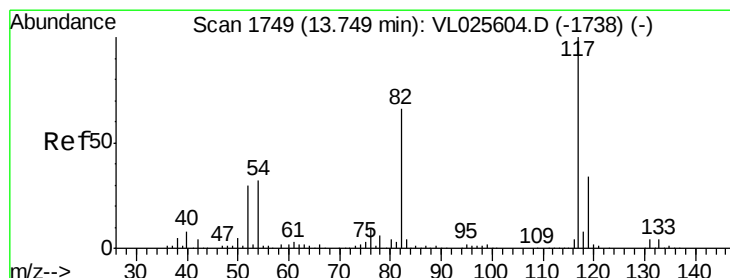
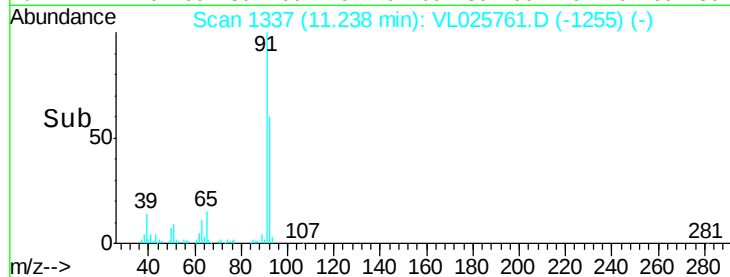
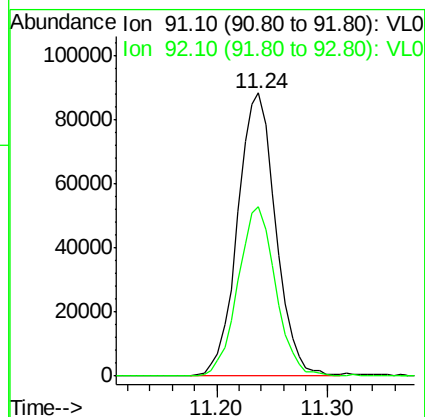
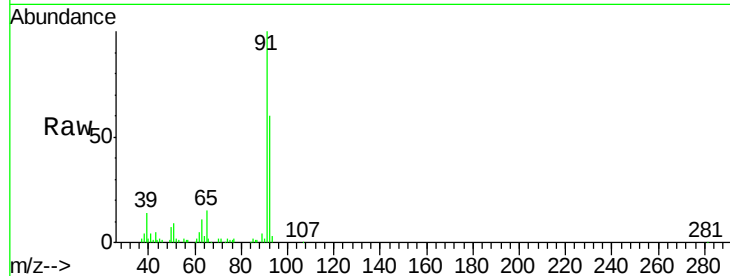
A-217-B

Tot Ion: 91 Resp: 209696

Ion Ratio Lower Upper

91 100

92 59.4 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 13.74 min Scan# 1748

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

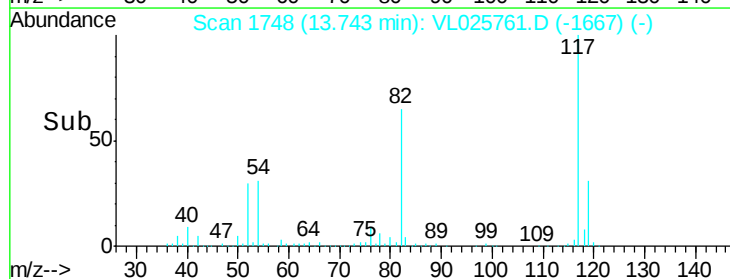
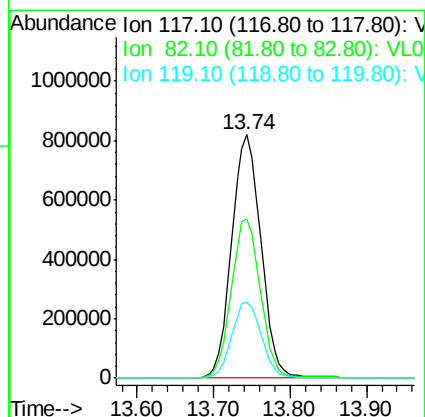
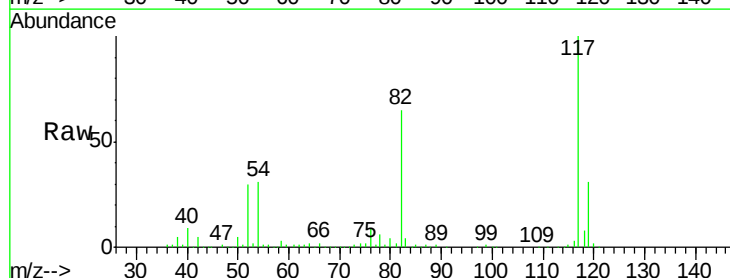
Tgt Ion: 117 Resp: 2182865

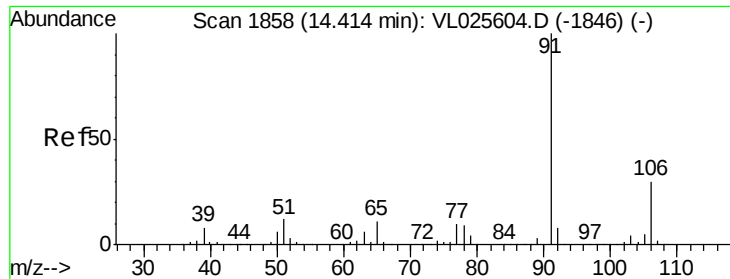
Ion Ratio Lower Upper

117 100

82 65.8 50.5 75.7

119 32.1 45.1 67.7#





#58

Ethyl Benzene

Concen: 0.12 ppbv

RT: 14.41 min Scan# 1858

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

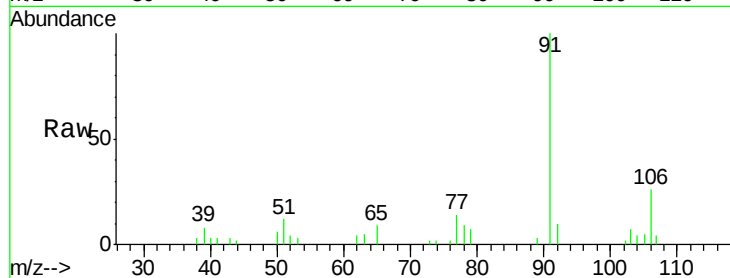
A-217-B

Tot Ion: 91 Resp: 44985

Ion Ratio Lower Upper

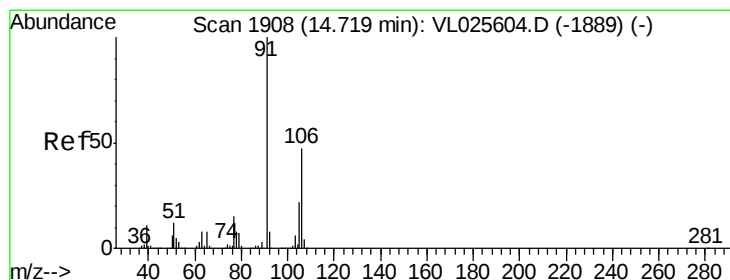
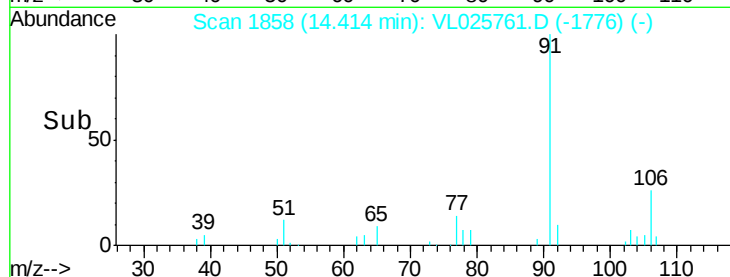
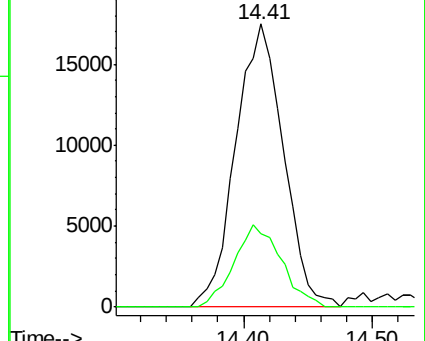
91 100

106 26.0 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.52 ppbv

RT: 14.69 min Scan# 1903

Delta R.T. -0.03 min

Lab File: VL025761.D

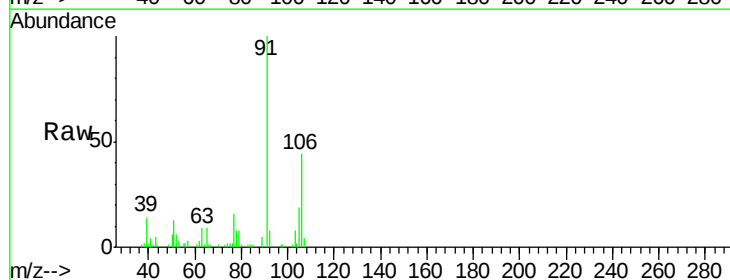
Acq: 27 Jul 2015 20:17

Tgt Ion: 91 Resp: 166021

Ion Ratio Lower Upper

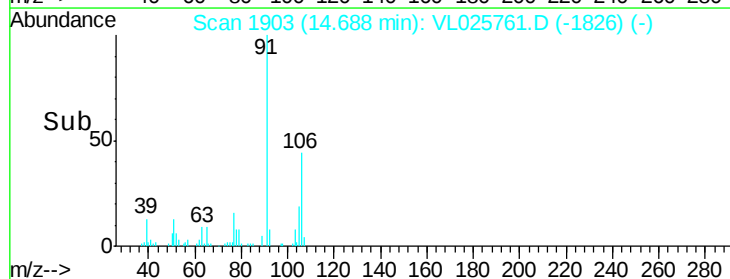
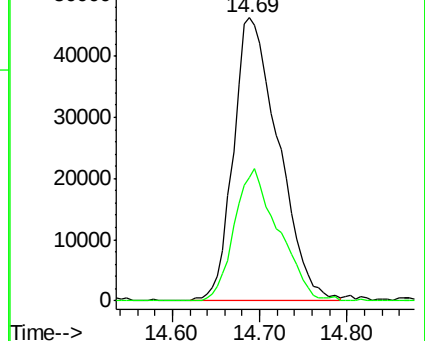
91 100

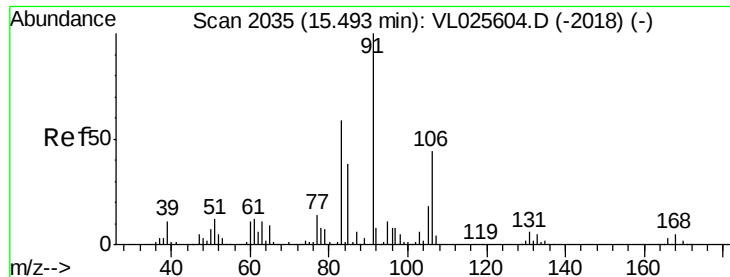
106 45.7 37.9 56.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

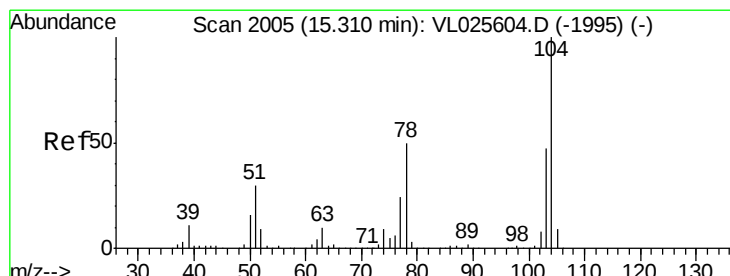
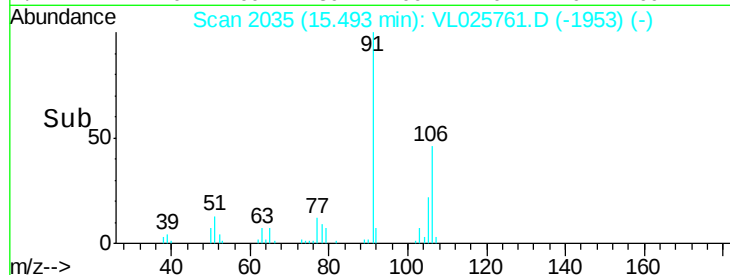
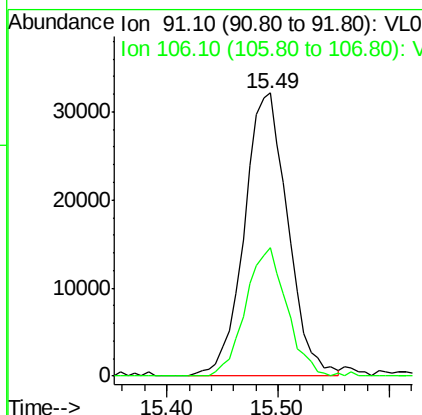
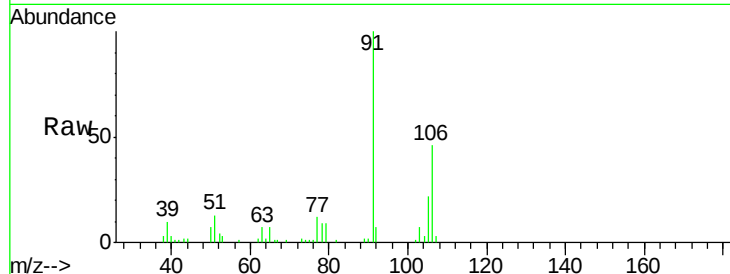




#60  
o-Xylene  
Concen: 0.26 ppbv  
RT: 15.49 min Scan# 2035  
Delta R.T. -0.00 min  
Lab File: VL025761.D  
Acq: 27 Jul 2015 20:17

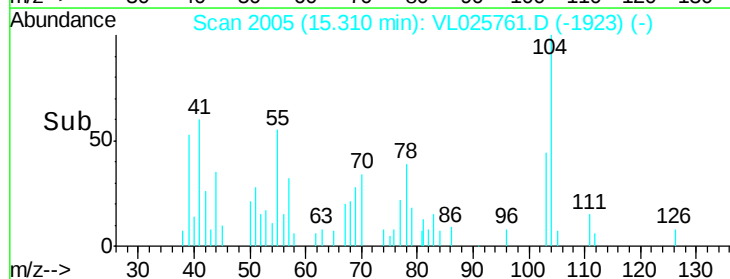
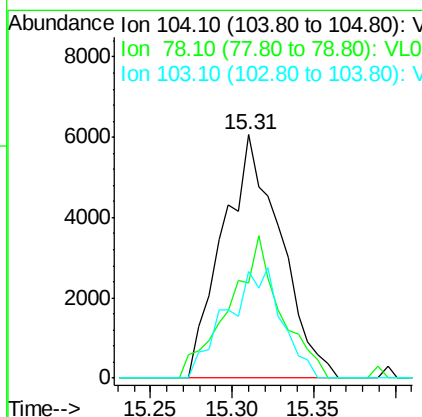
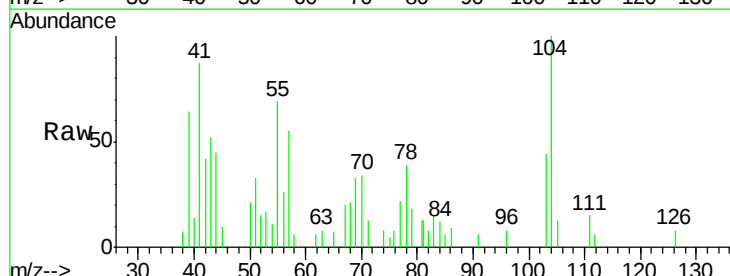
Instrument :  
MSVOA\_L  
ClientSampleId :  
A-217-B

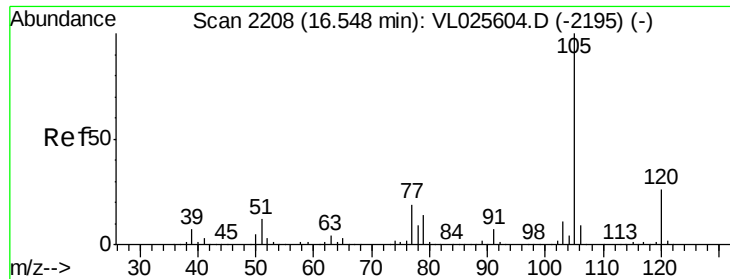
Tot Ion: 91 Resp: 87452  
Ion Ratio Lower Upper  
91 100  
106 43.1 22.1 66.1



#61  
Styrene  
Concen: 0.12 ppbv  
RT: 15.31 min Scan# 2005  
Delta R.T. -0.00 min  
Lab File: VL025761.D  
Acq: 27 Jul 2015 20:17

Tgt Ion:104 Resp: 14933  
Ion Ratio Lower Upper  
104 100  
78 52.8 40.2 60.4  
103 43.2 37.4 56.2





#62

Isopropylbenzene

Concen: 0.08 ppbv

RT: 16.54 min Scan# 2207

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

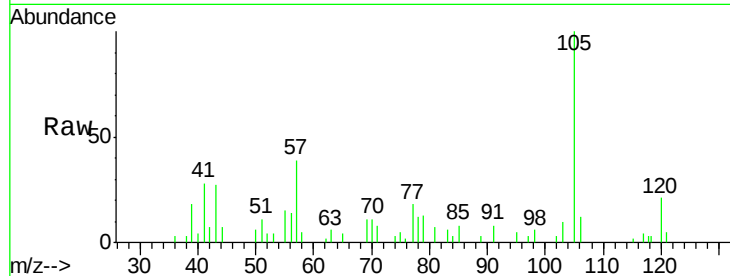
A-217-B

Tot Ion:105 Resp: 34396

Ion Ratio Lower Upper

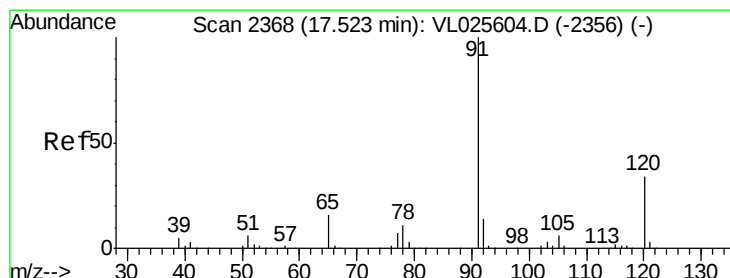
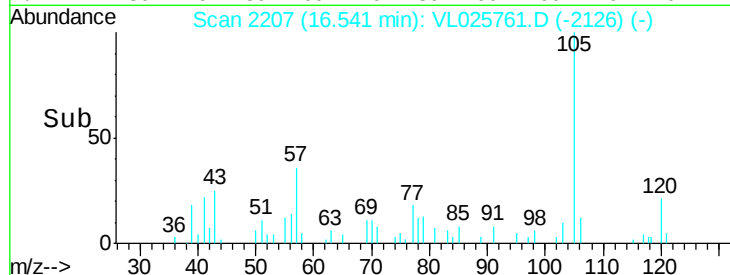
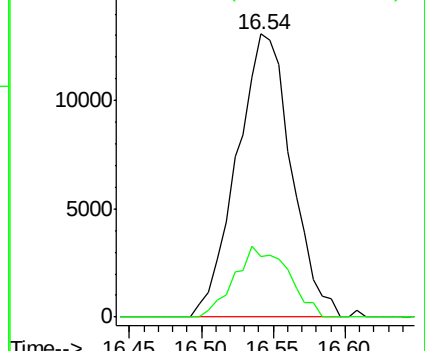
105 100

120 24.3 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.39 ppbv

RT: 17.52 min Scan# 2368

Delta R.T. -0.00 min

Lab File: VL025761.D

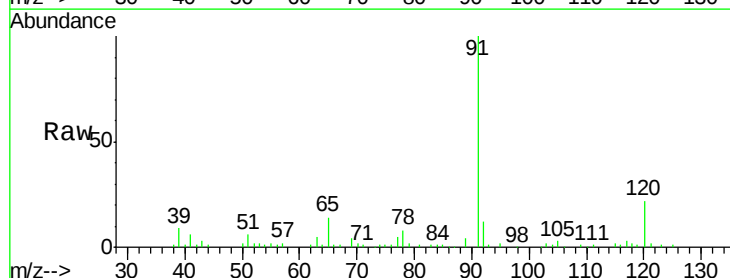
Acq: 27 Jul 2015 20:17

Tgt Ion:120 Resp: 47067

Ion Ratio Lower Upper

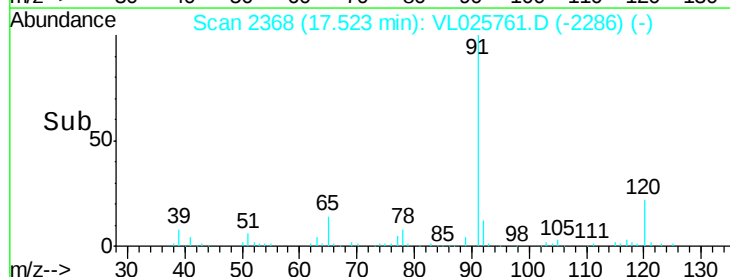
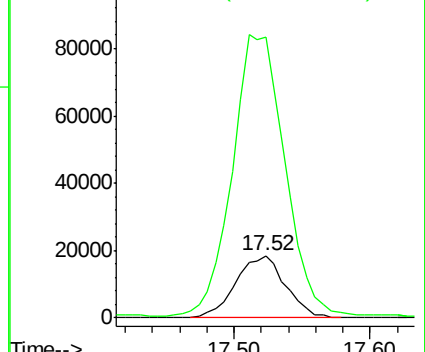
120 100

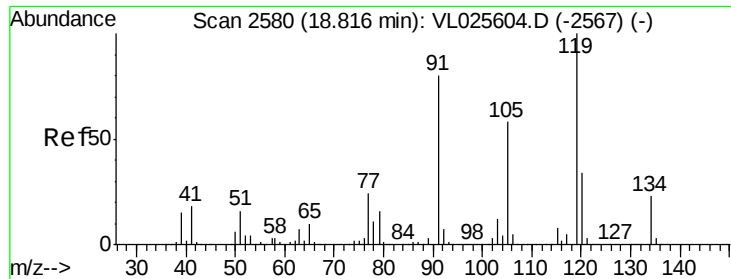
91 485.1 370.5 555.7



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.13 ppbv

RT: 18.83 min Scan# 2582

Delta R.T. 0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

A-217-B

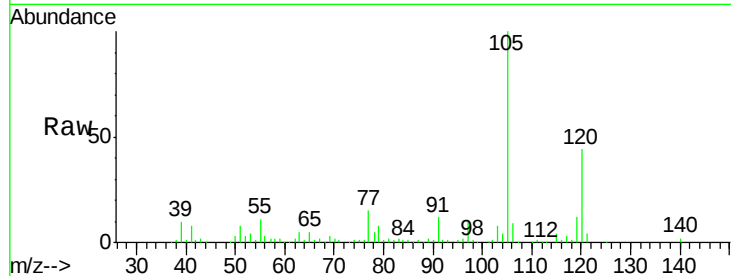
Tot Ion:119 Resp: 58102

Ion Ratio Lower Upper

119 100

91 117.7 64.5 96.7#

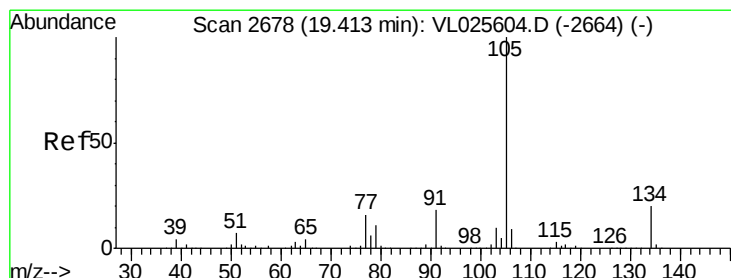
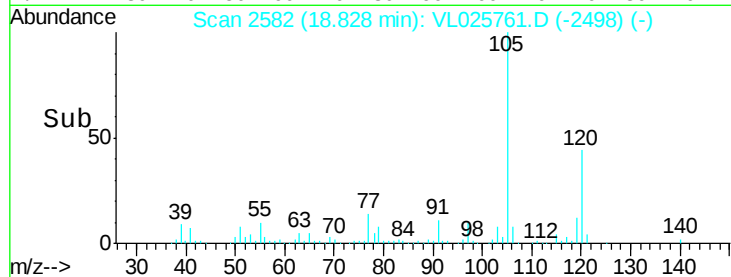
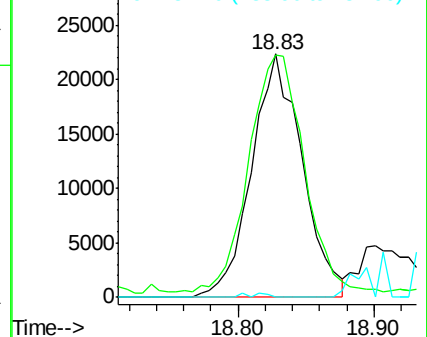
134 0.7 17.4 26.0#



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



#67

sec-Butylbenzene

Concen: 0.04 ppbv

RT: 19.41 min Scan# 2678

Delta R.T. -0.00 min

Lab File: VL025761.D

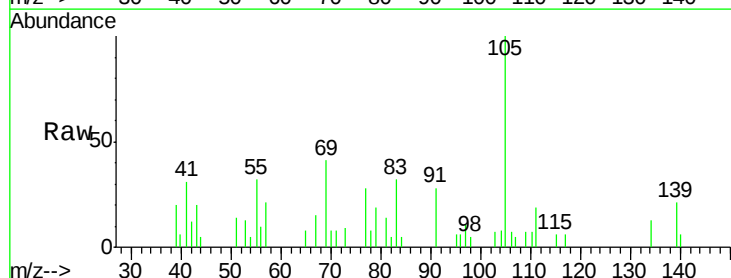
Acq: 27 Jul 2015 20:17

Tgt Ion:105 Resp: 21660

Ion Ratio Lower Upper

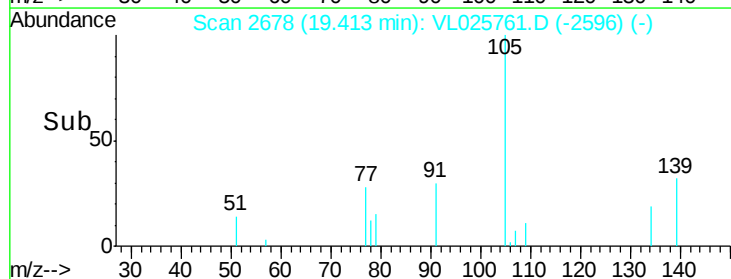
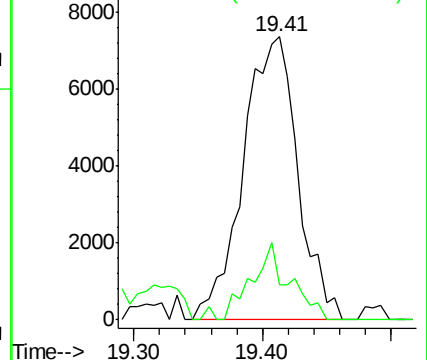
105 100

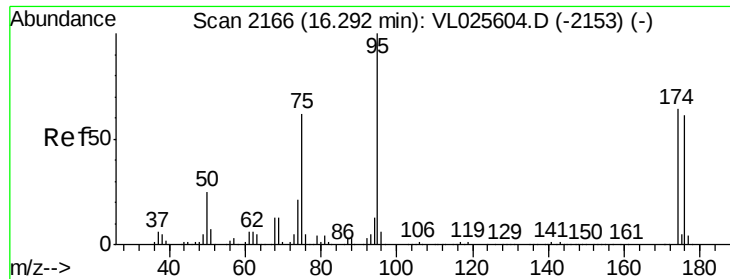
134 18.7 15.4 23.2



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: 9.87 ppbv

RT: 16.29 min Scan# 2165

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

A-217-B

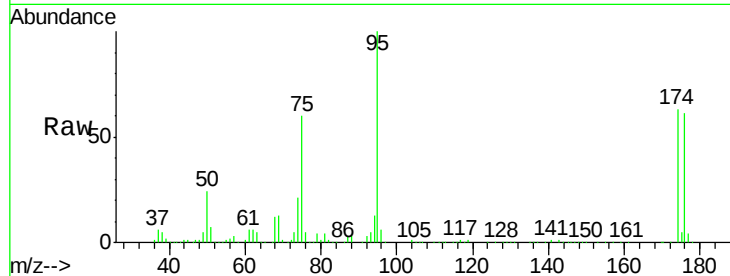
Tot Ion: 95 Resp: 1817633

Ion Ratio Lower Upper

95 100

174 64.1 52.0 78.0

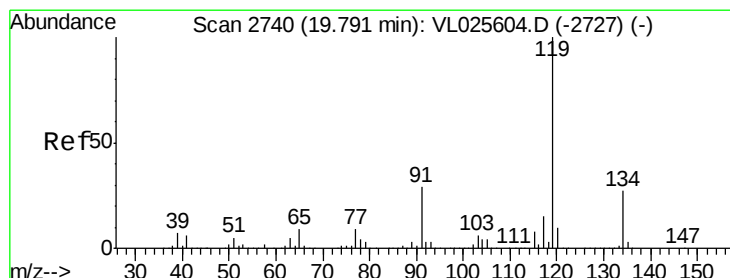
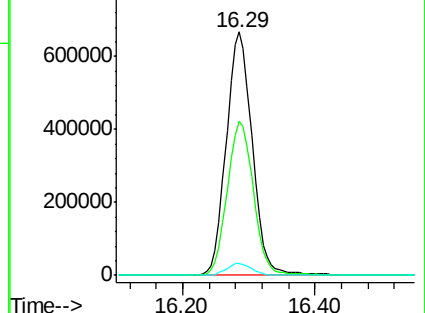
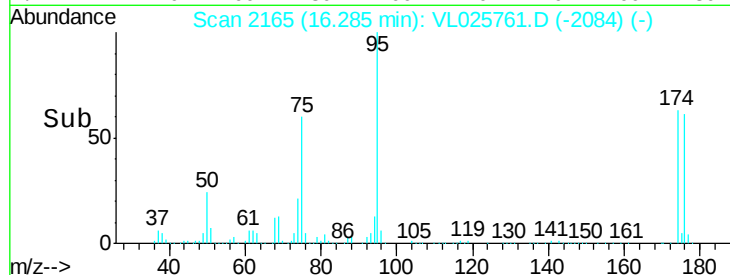
175 4.9 3.9 5.9



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 0.18 ppbv

RT: 19.79 min Scan# 2740

Delta R.T. -0.00 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

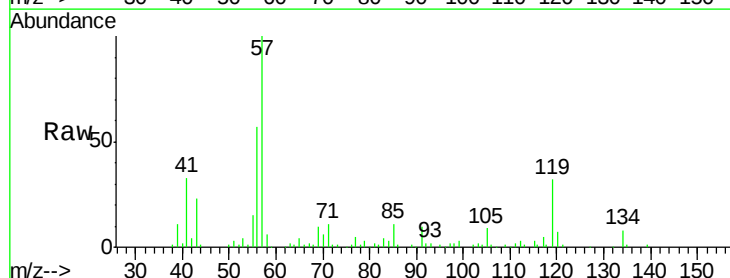
Tgt Ion: 119 Resp: 90882

Ion Ratio Lower Upper

119 100

134 22.7 20.7 31.1

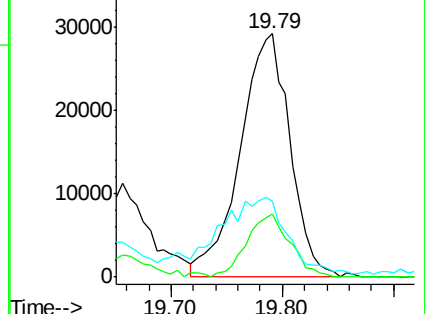
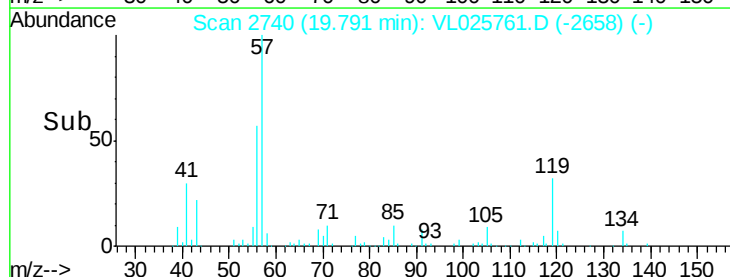
91 44.3 22.6 34.0#

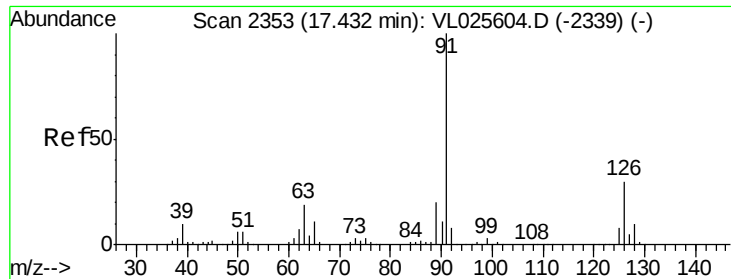


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

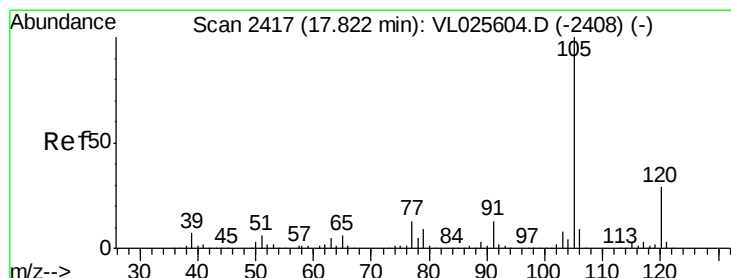
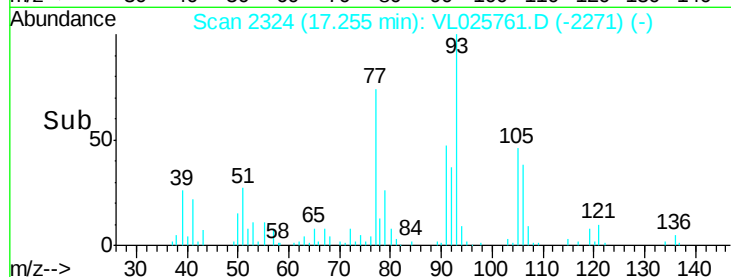
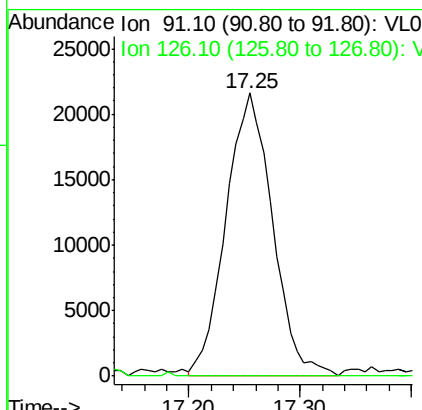
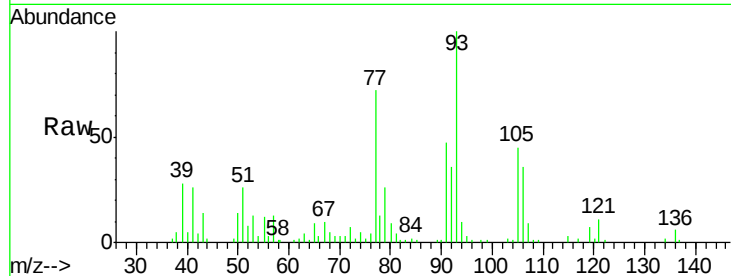




#71  
 2-Chlorotoluene  
 Concen: 0.19 ppbv  
 RT: 17.25 min Scan# 2324  
 Delta R.T. -0.18 min  
 Lab File: VL025761.D  
 Acq: 27 Jul 2015 20:17

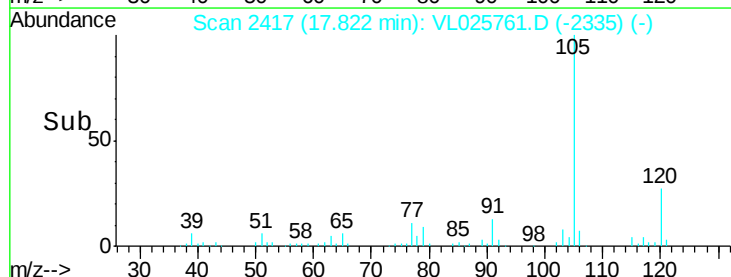
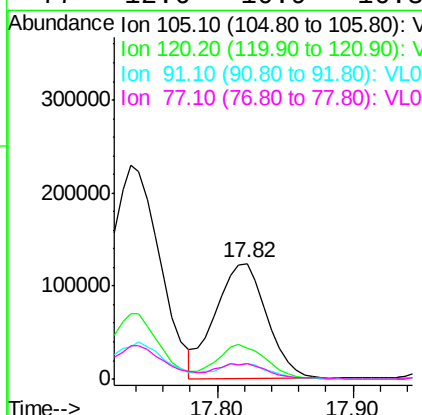
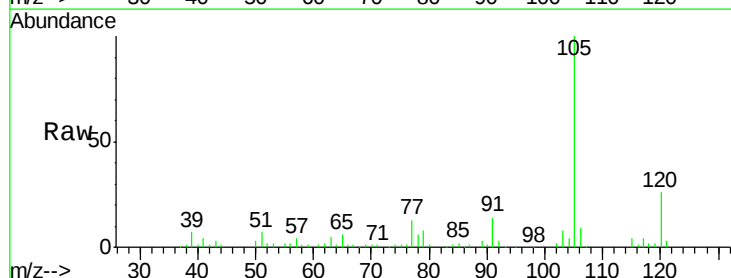
Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 A-217-B

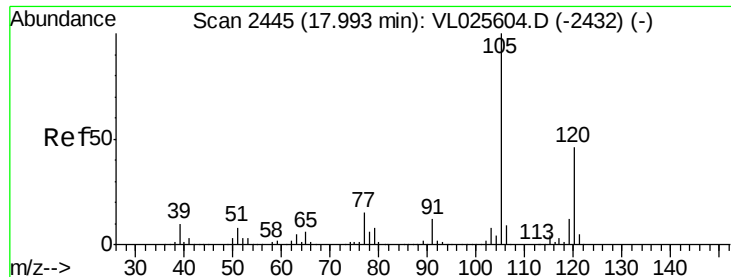
Tot Ion: 91 Resp: 62791  
 Ion Ratio Lower Upper  
 91 100  
 126 13.0 12.2 49.0



#72  
 4-Ethyltoluene  
 Concen: 0.86 ppbv  
 RT: 17.82 min Scan# 2417  
 Delta R.T. -0.00 min  
 Lab File: VL025761.D  
 Acq: 27 Jul 2015 20:17

Tgt Ion: 105 Resp: 325367  
 Ion Ratio Lower Upper  
 105 100  
 120 26.8 23.9 35.9  
 91 13.1 10.3 15.5  
 77 12.6 10.9 16.3





#73

1,3,5-Trimethylbenzene

Concen: 0.55 ppbv

RT: 17.99 min Scan# 2444

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampled :

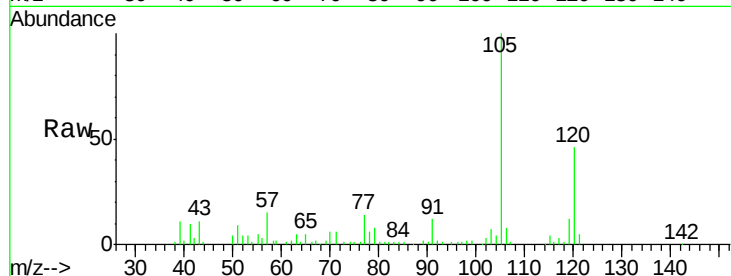
A-217-B

Tot Ion:105 Resp: 203183

Ion Ratio Lower Upper

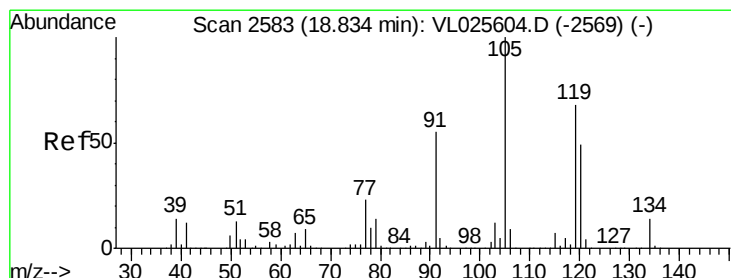
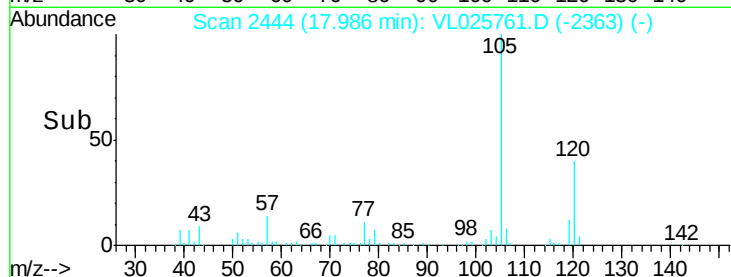
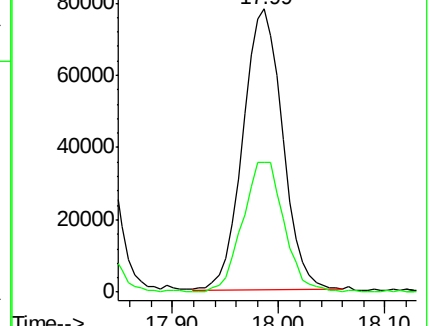
105 100

120 46.1 37.0 55.4



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: 1.21 ppbv

RT: 18.83 min Scan# 2582

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Tgt Ion:105 Resp: 502026

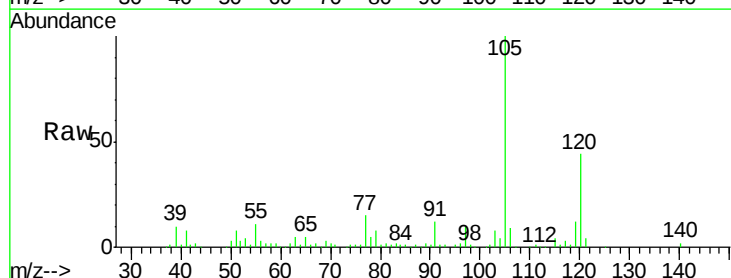
Ion Ratio Lower Upper

105 100

120 43.5 39.3 58.9

91 11.2 43.8 65.6#

77 14.4 18.3 27.5#

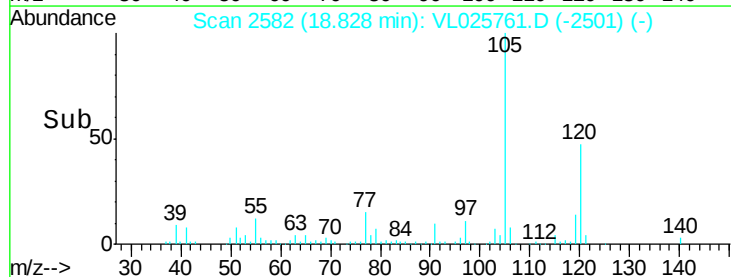
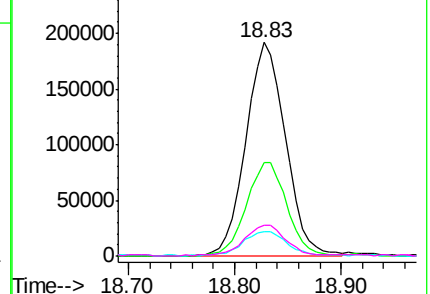


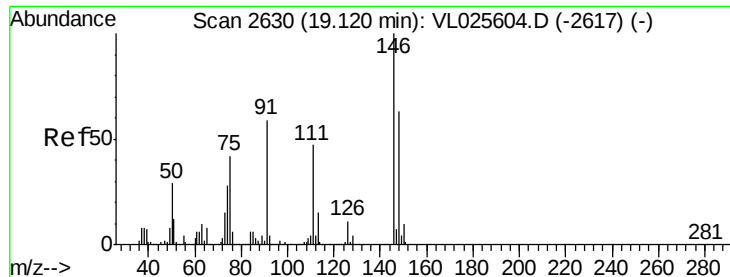
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 0.08 ppbv

RT: 19.27 min Scan# 2655

Delta R.T. 0.15 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampleId :

A-217-B

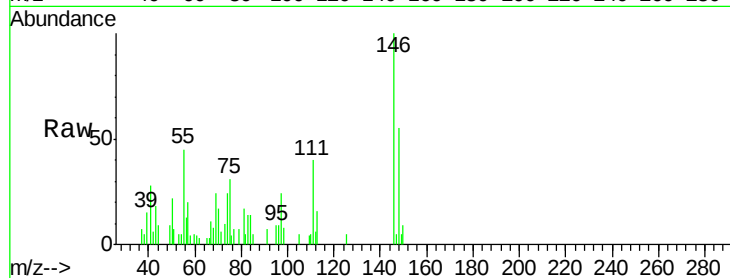
Tot Ion:146 Resp: 21355

Ion Ratio Lower Upper

146 100

111 90.0 22.7 68.1#

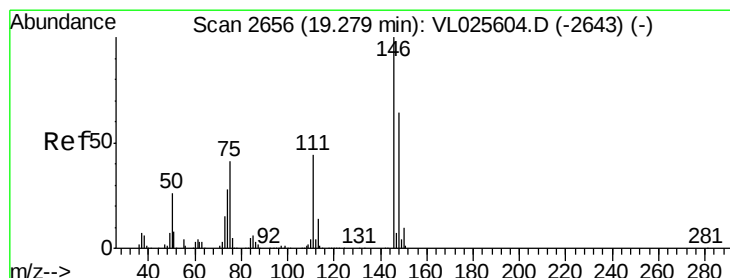
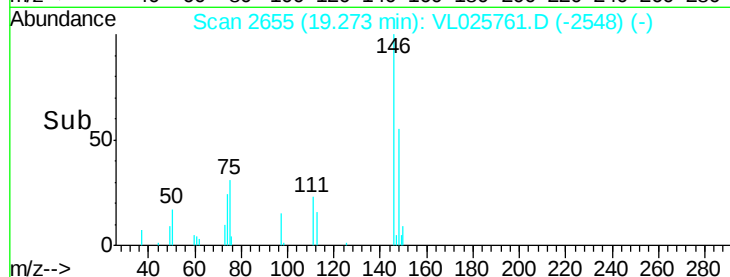
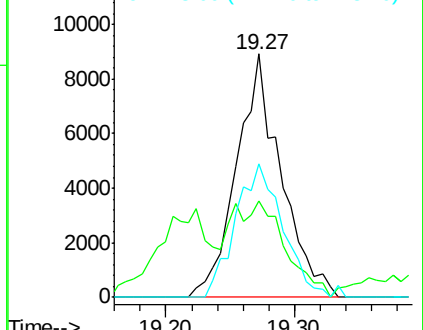
148 58.7 31.8 95.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.08 ppbv

RT: 19.27 min Scan# 2655

Delta R.T. -0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

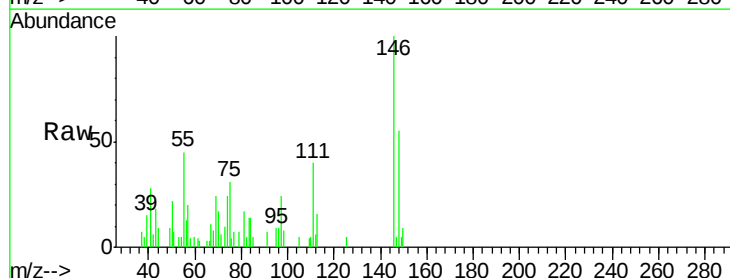
Tgt Ion:146 Resp: 21355

Ion Ratio Lower Upper

146 100

111 92.0 22.1 66.1#

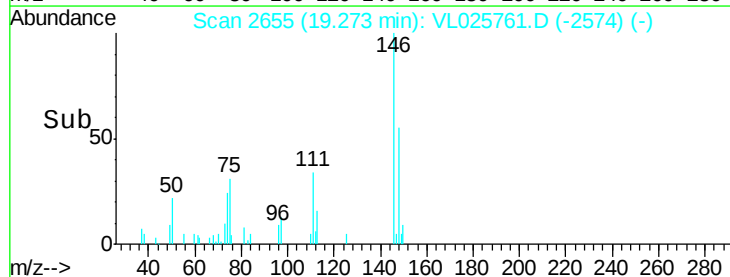
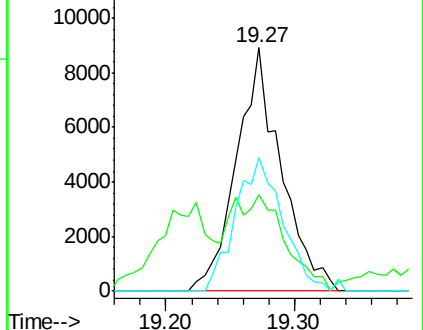
148 58.7 31.9 95.9

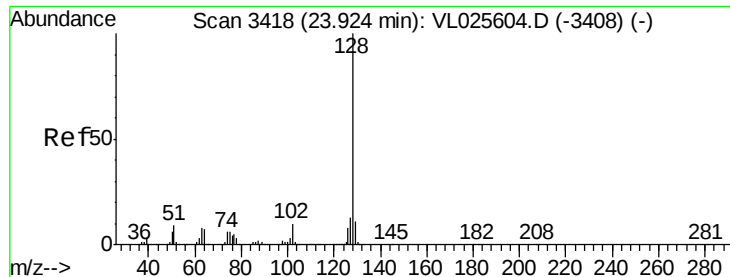


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 0.12 ppbv

RT: 23.93 min Scan# 3419

Delta R.T. 0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

Instrument :

MSVOA\_L

ClientSampled :

A-217-B

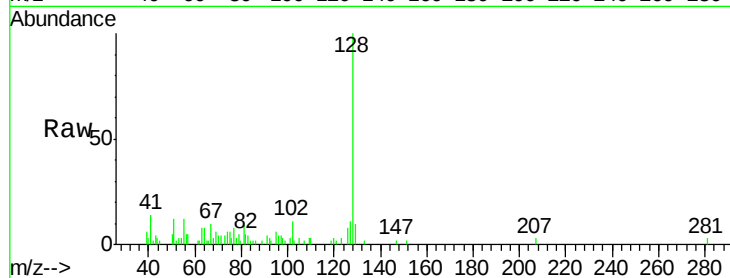
Tot Ion:128 Resp: 49597

Ion Ratio Lower Upper

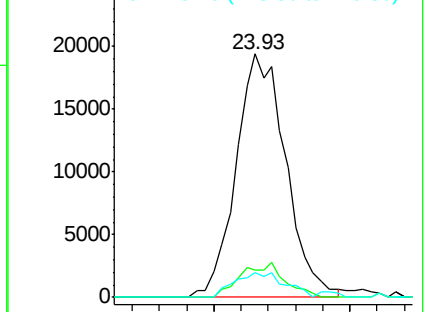
128 100

127 11.4 10.8 16.2

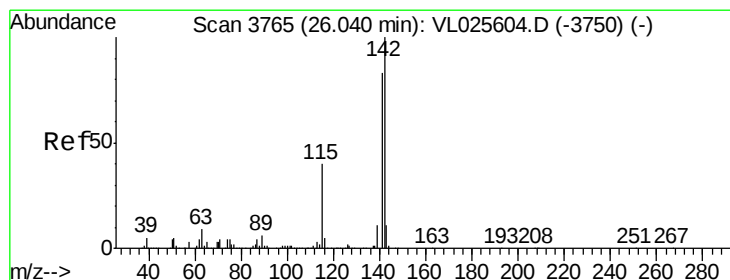
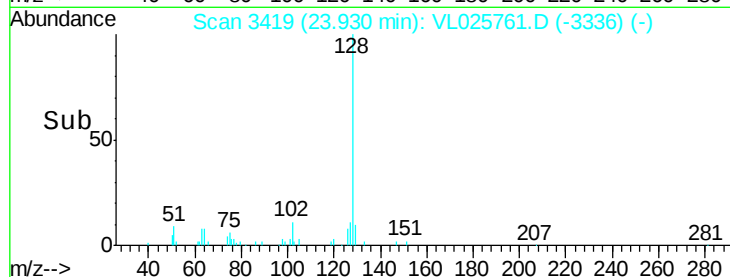
129 9.9 9.0 13.4



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



Time-->



#80

Naphthalene, 2-methyl-

Concen: 0.03 ppbv

RT: 26.05 min Scan# 3767

Delta R.T. 0.01 min

Lab File: VL025761.D

Acq: 27 Jul 2015 20:17

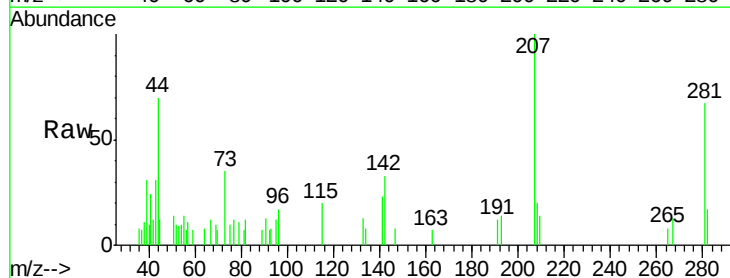
Tgt Ion:142 Resp: 3770

Ion Ratio Lower Upper

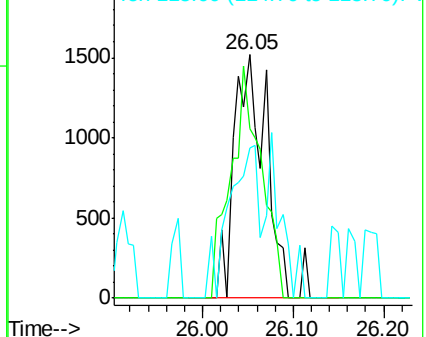
142 100

141 90.1 67.1 100.7

115 87.3 33.9 50.9#



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



Time-->

