

Data File : VL033381.D  
Acq On : 19 Mar 2019 7:52  
Operator : SY/AP  
Sample : K1805-07 10X  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ST-SS-3DL

Quant Time: Mar 19 08:50:17 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL031519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Mar 15 14:52:14 2019  
QLast Update : Fri Mar 15 14:52:14 2019  
Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.75  | 49   | 718309   | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.28  | 114  | 1835734  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.23 | 117  | 1789323  | 10.00 | ppbv  | -0.01    |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 14.57  | 95    | 1491623  | 11.25    | ppbv | -0.01   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 112.50% |

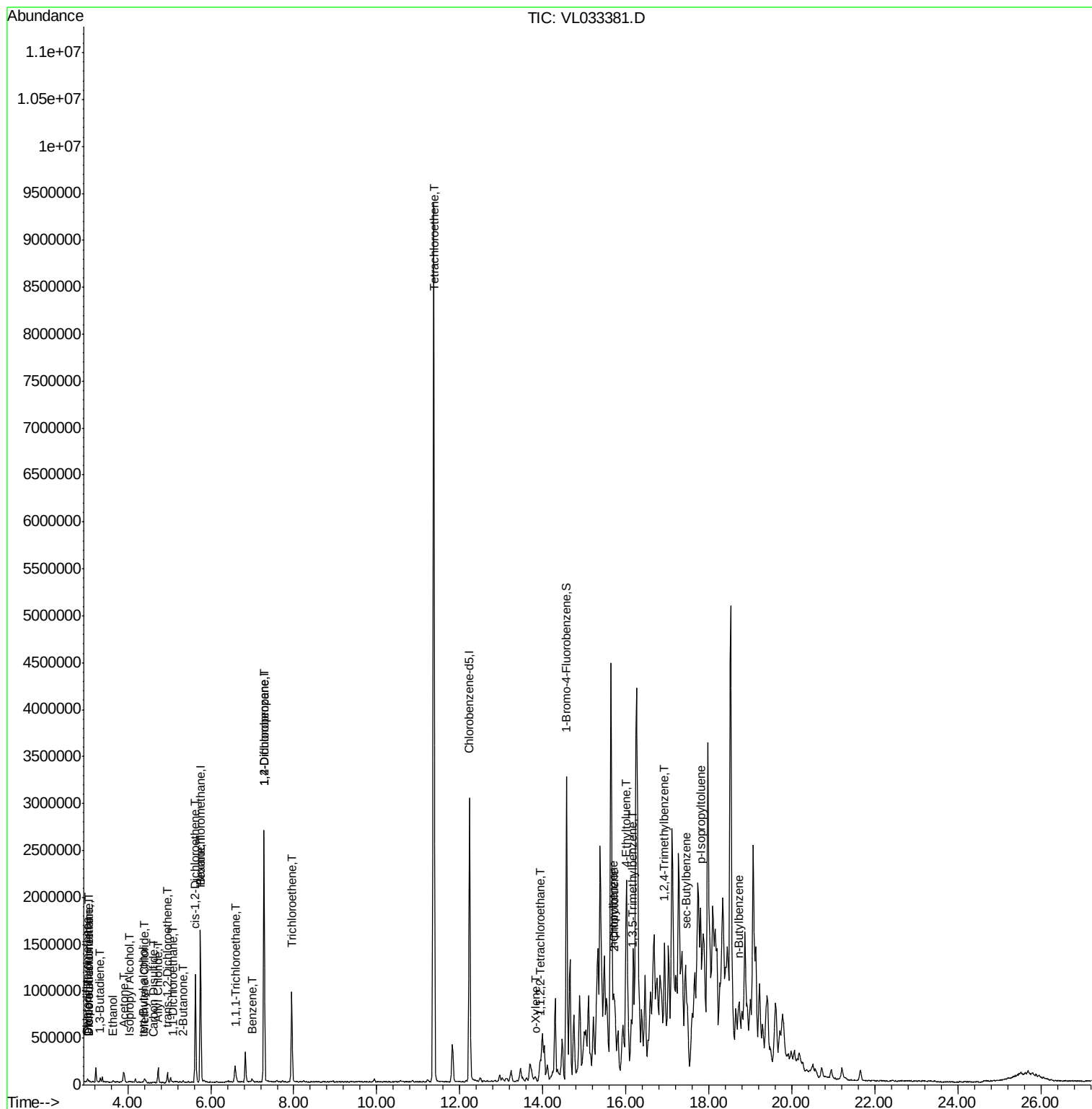
| Target Compounds              |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 3.07  | 85  | 8216    | 0.065  | ppbv # | 86     |
| 3) Chlorodifluoromethane      | 3.00  | 51  | 3809    | 0.046  | ppbv   | 97     |
| 8) Dichlorotetrafluoroethane  | 3.07  | 85  | 8216    | 0.076  | ppbv # | 17     |
| 9) Propene                    | 3.04  | 41  | 9468    | 0.257  | ppbv   | 83     |
| 13) Ethanol                   | 3.65  | 45  | 4623    | 0.263  | ppbv # | 38     |
| 15) Acetone                   | 3.90  | 43  | 112517  | 1.008  | ppbv   | 96     |
| 16) 1,3-Butadiene             | 3.34  | 39  | 5017    | 0.138  | ppbv # | 35     |
| 17) tert-Butyl alcohol        | 4.37  | 59  | 1209    | 0.077  | ppbv # | 74     |
| 19) Isopropyl Alcohol         | 4.03  | 45  | 5351    | 0.101  | ppbv # | 95     |
| 20) Methylene Chloride        | 4.40  | 84  | 11641   | 0.320  | ppbv   | 95     |
| 21) Allyl Chloride            | 4.73  | 41  | 72964   | 1.347  | ppbv # | 55     |
| 22) trans-1,2-Dichloroethene  | 4.96  | 96  | 32875   | 0.889  | ppbv   | 96     |
| 24) 1,1-Dichloroethane        | 5.08  | 63  | 3850    | 0.041  | ppbv # | 96     |
| 26) Hexane                    | 5.76  | 57  | 5950    | 0.082  | ppbv # | 1      |
| 27) Carbon Disulfide          | 4.62  | 76  | 3463    | 0.041  | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene    | 5.63  | 61  | 617061  | 8.505  | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 6.61  | 97  | 31166   | 0.267  | ppbv   | 89     |
| 34) 2-Butanone                | 5.34  | 43  | 18308   | 0.152  | ppbv   | 94     |
| 36) Benzene                   | 6.99  | 78  | 13777   | 0.084  | ppbv # | 82     |
| 38) Trichloroethene           | 7.95  | 130 | 279098  | 4.489  | ppbv   | 97     |
| 39) 1,2-Dichloropropane       | 7.28  | 63  | 498235  | 8.098  | ppbv # | 24     |
| 52) Tetrachloroethene         | 11.37 | 164 | 2398255 | 35.040 | ppbv   | 99     |
| 60) o-Xylene                  | 13.84 | 91  | 10347   | 0.049  | ppbv   | 91     |
| 63) 1,1,2,2-Tetrachloroethane | 13.92 | 83  | 4865    | 0.032  | ppbv # | 25     |
| 64) n-propylbenzene           | 15.71 | 120 | 4064    | 0.054  | ppbv # | 1      |
| 67) sec-Butylbenzene          | 17.45 | 105 | 27076   | 0.072  | ppbv # | 84     |
| 69) p-Isopropyltoluene        | 17.81 | 119 | 17009   | 0.055  | ppbv # | 48     |
| 70) n-Butylbenzene            | 18.71 | 91  | 13948   | 0.043  | ppbv # | 67     |
| 71) 2-Chlorotoluene           | 15.72 | 91  | 67856   | 0.295  | ppbv   | 99     |
| 72) 4-Ethyltoluene            | 15.99 | 105 | 14863   | 0.062  | ppbv # | 1      |
| 73) 1,3,5-Trimethylbenzene    | 16.15 | 105 | 58727   | 0.250  | ppbv   | 97     |
| 74) 1,2,4-Trimethylbenzene    | 16.92 | 105 | 90263   | 0.363  | ppbv # | 69     |

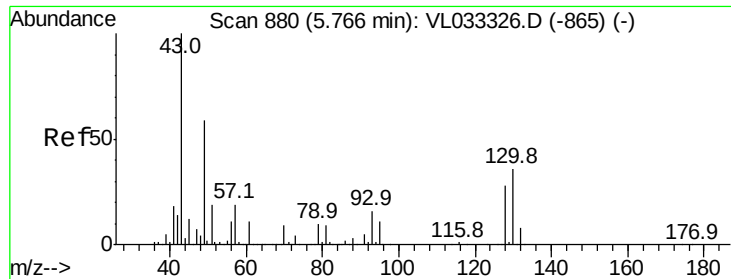
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.02 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

ST-SS-3DL

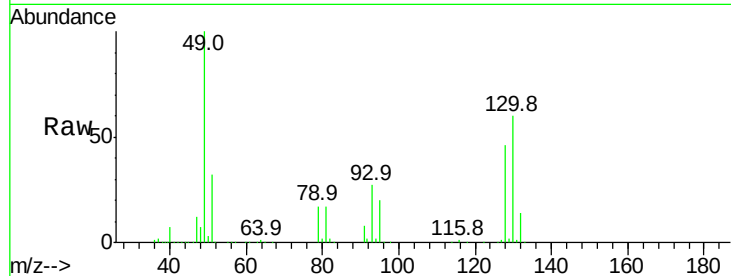
Tgt Ion: 49 Resp: 718309

Ion Ratio Lower Upper

49 100

128 47.1 23.5 70.6

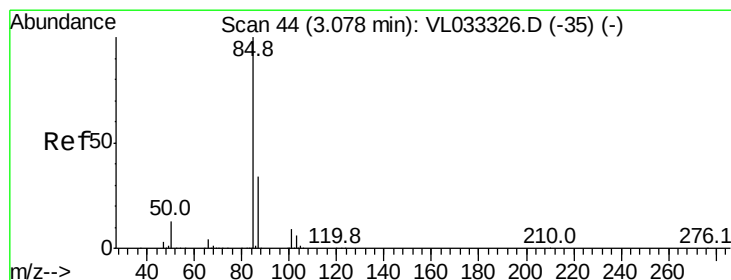
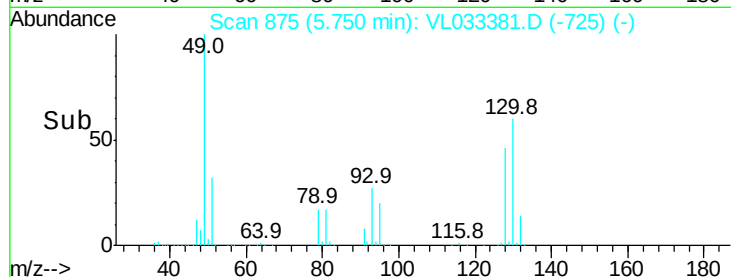
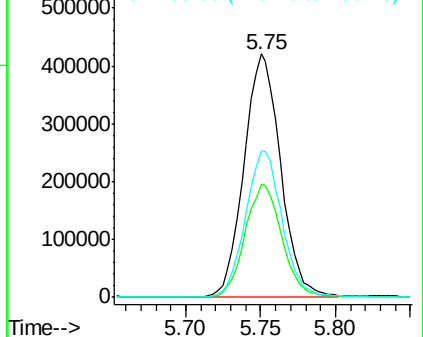
130 60.9 30.1 90.3



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: 0.065 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.01 min

Lab File: VL033381.D

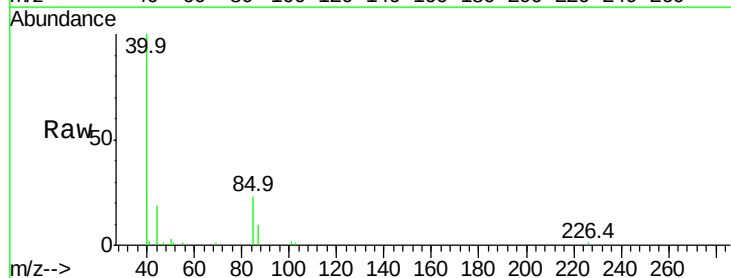
Acq: 19 Mar 2019 7:52

Tgt Ion: 85 Resp: 8216

Ion Ratio Lower Upper

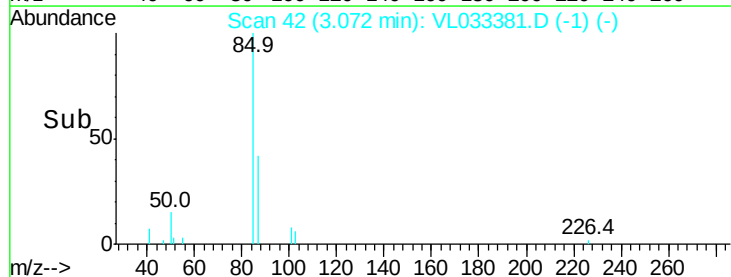
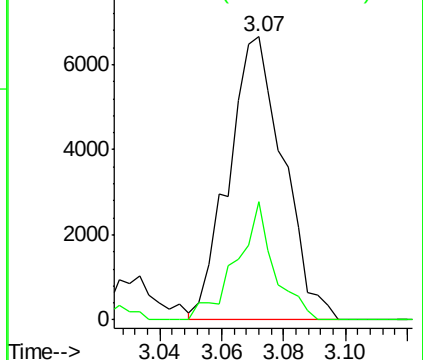
85 100

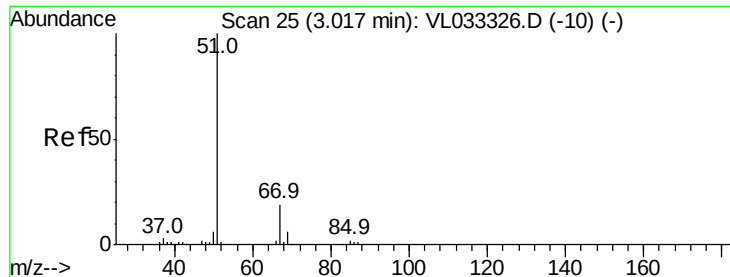
87 41.8 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.046 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

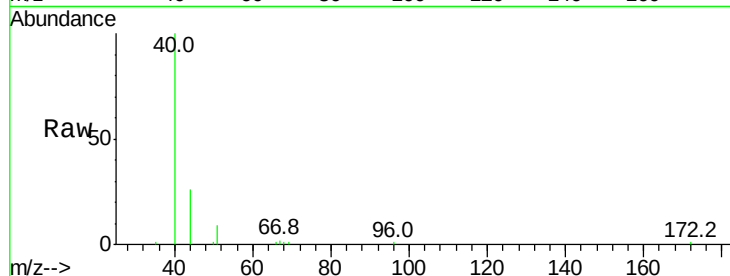
ST-SS-3DL

Tgt Ion: 51 Resp: 3809

Ion Ratio Lower Upper

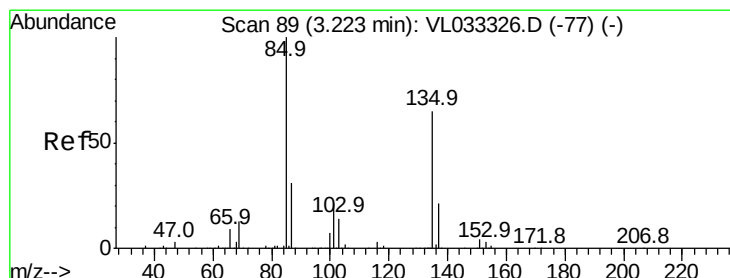
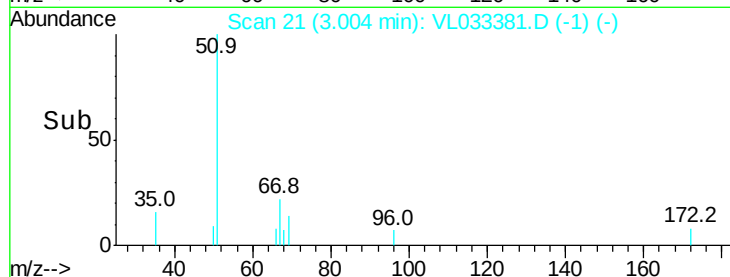
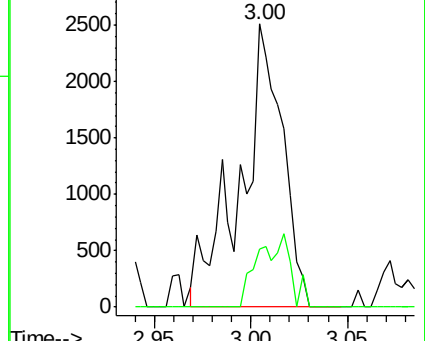
51 100

67 19.8 14.9 22.3



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.076 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.15 min

Lab File: VL033381.D

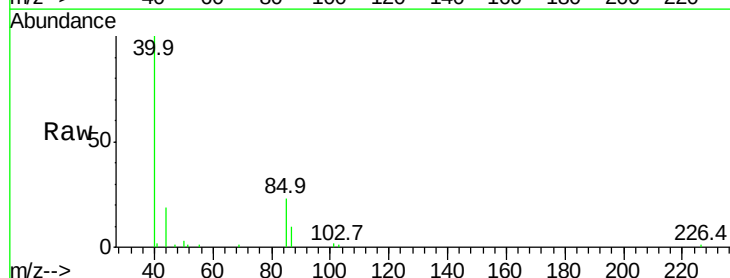
Acq: 19 Mar 2019 7:52

Tgt Ion: 85 Resp: 8216

Ion Ratio Lower Upper

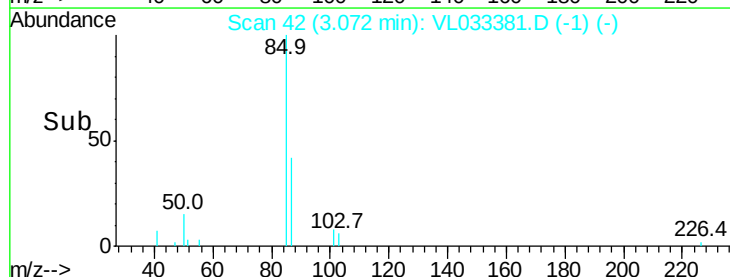
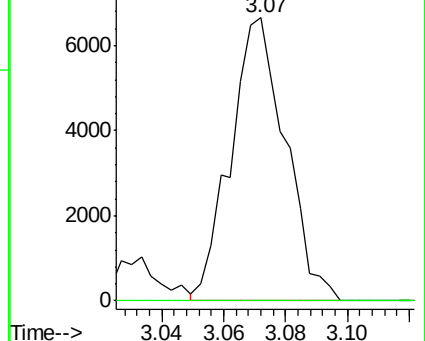
85 100

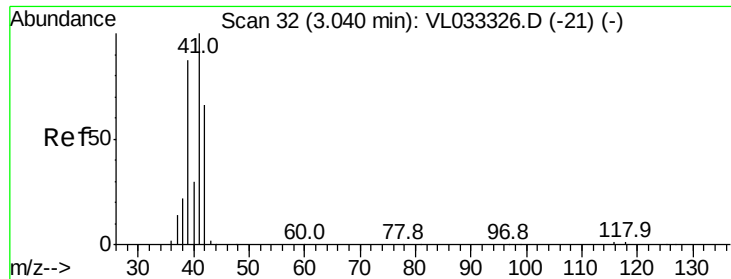
135 0.0 53.4 80.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.257 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

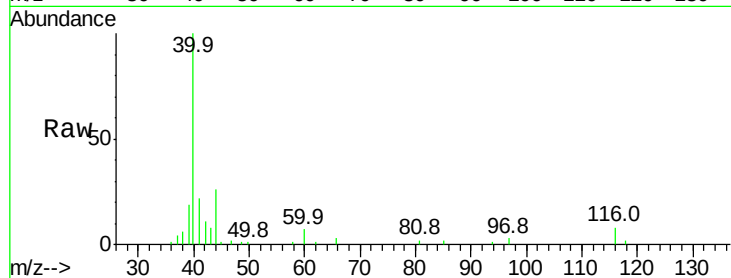
ST-SS-3DL

Tgt Ion: 41 Resp: 9468

Ion Ratio Lower Upper

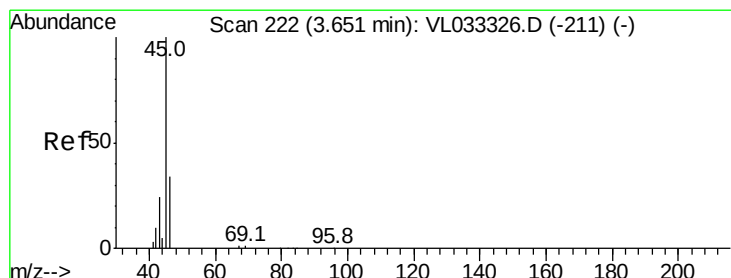
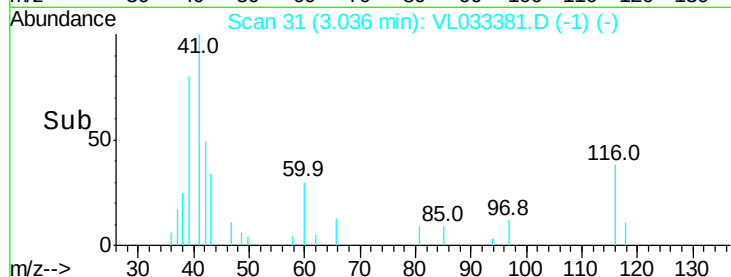
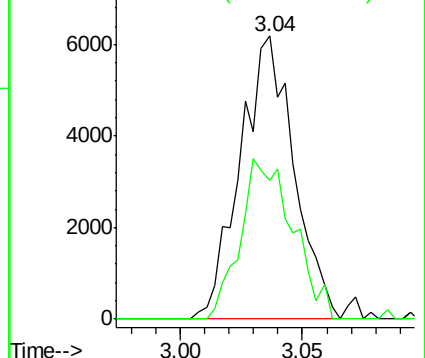
41 100

42 55.3 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 0.263 ppbv

RT: 3.65 min Scan# 221

Delta R.T. -0.00 min

Lab File: VL033381.D

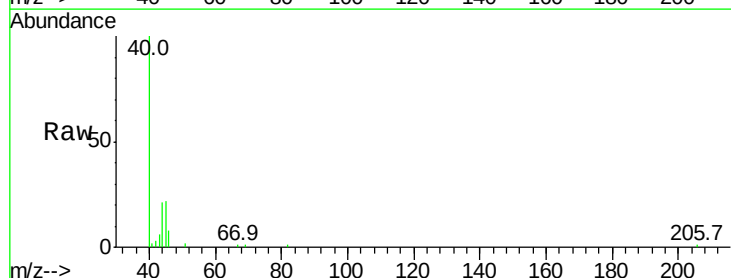
Acq: 19 Mar 2019 7:52

Tgt Ion: 45 Resp: 4623

Ion Ratio Lower Upper

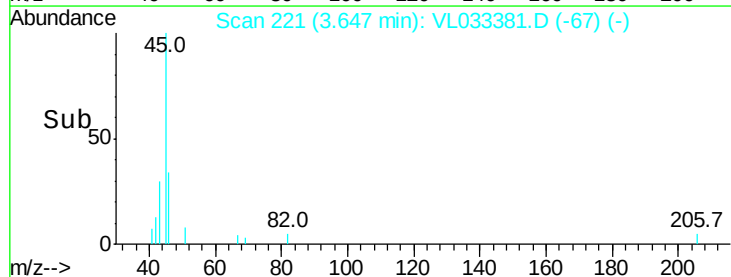
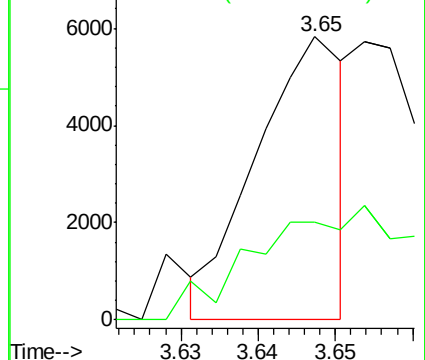
45 100

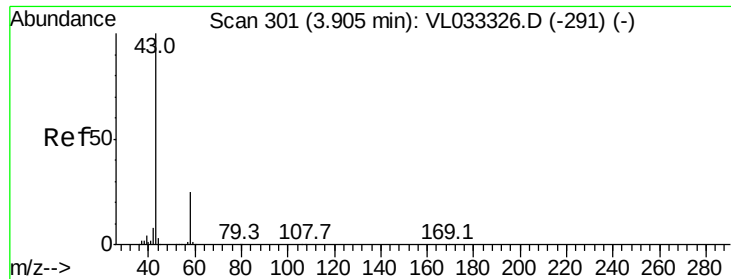
46 0.0 14.9 59.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 1.008 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.00 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

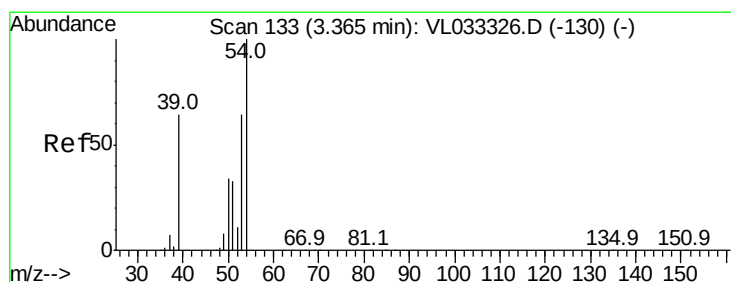
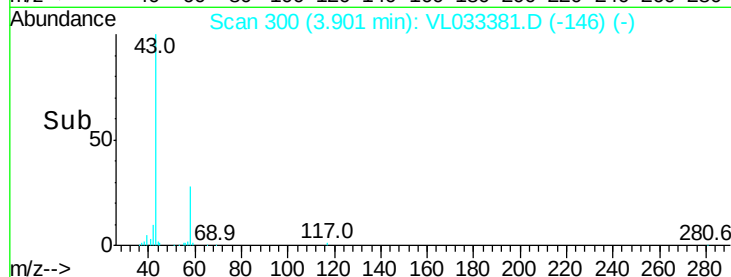
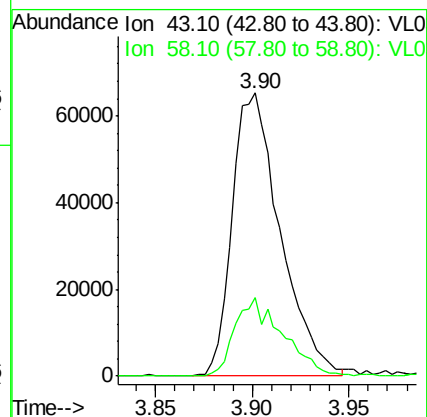
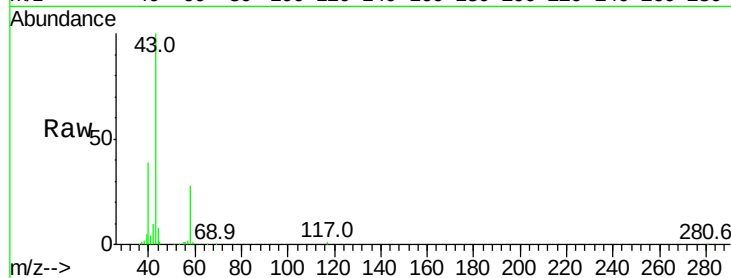
ST-SS-3DL

Tgt Ion: 43 Resp: 112517

Ion Ratio Lower Upper

43 100

58 27.8 20.4 30.6



#16

1,3-Butadiene

Concen: 0.138 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.02 min

Lab File: VL033381.D

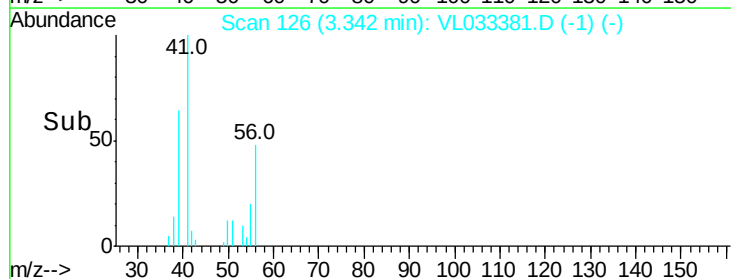
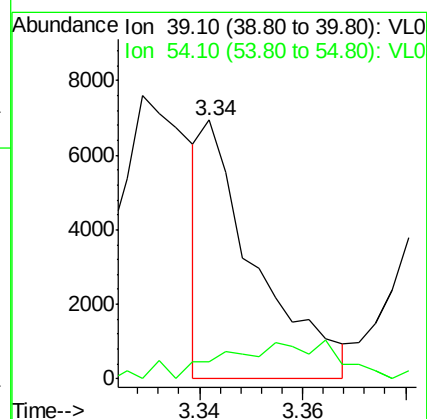
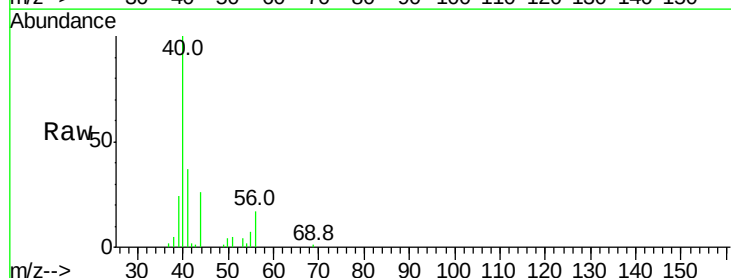
Acq: 19 Mar 2019 7:52

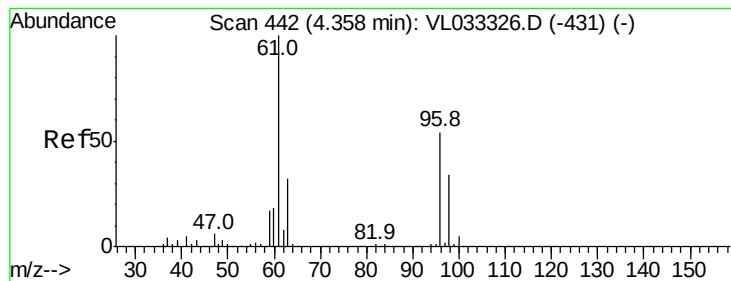
Tgt Ion: 39 Resp: 5017

Ion Ratio Lower Upper

39 100

54 32.9 76.8 115.2#





#17

tert-Butyl alcohol

Concen: 0.077 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.01 min

Lab File: VL033381.D

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Instrument :

MSVOA\_L

ClientSampleId :

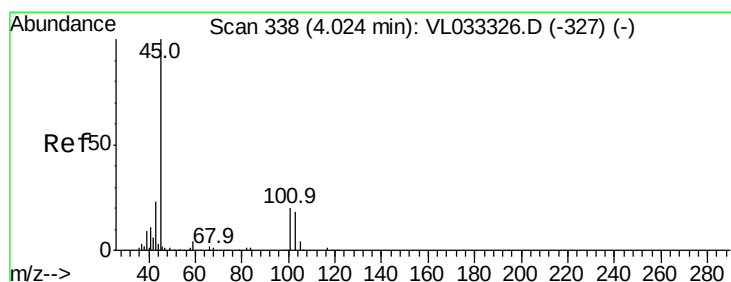
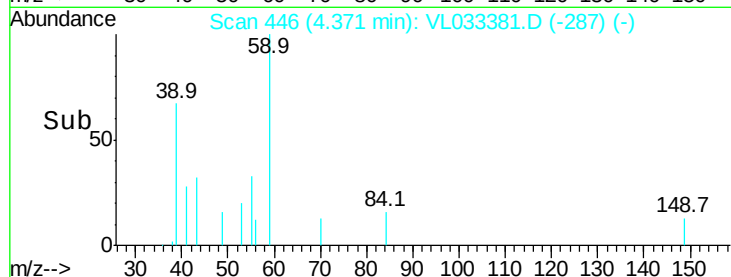
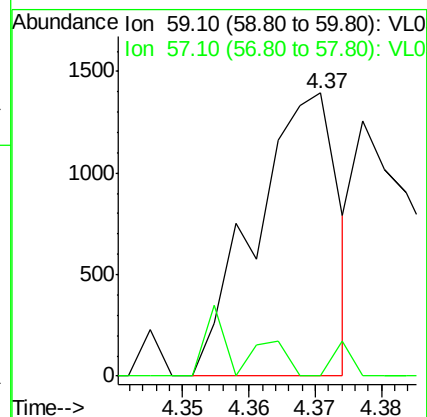
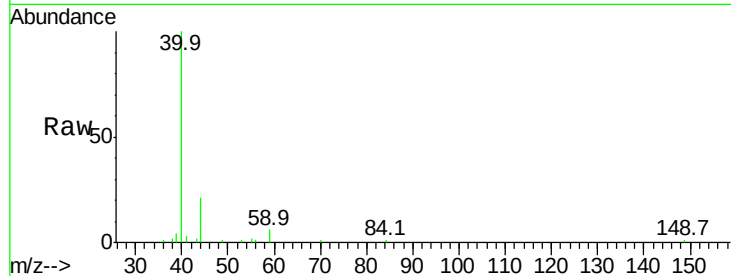
ST-SS-3DL

Tgt Ion: 59 Resp: 1209

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#19

Isopropyl Alcohol

Concen: 0.101 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033381.D

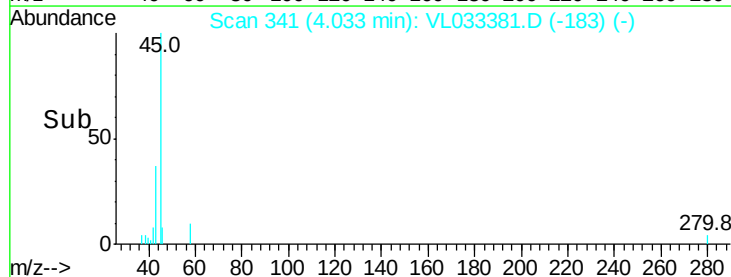
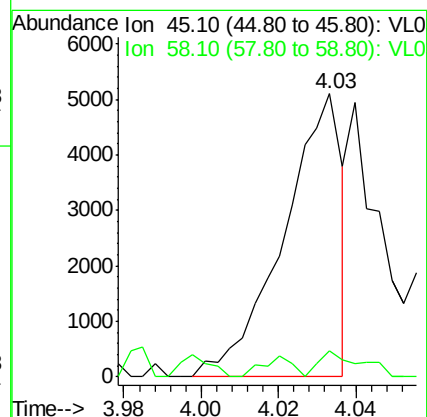
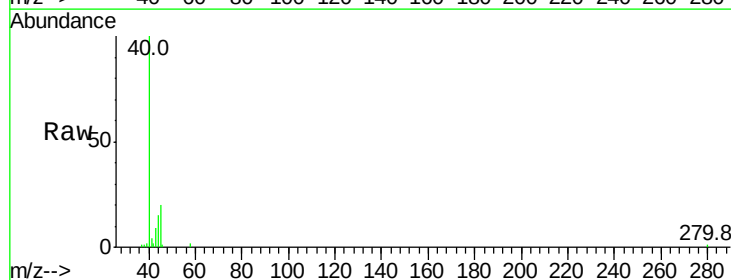
Acq: 19 Mar 2019 7:52

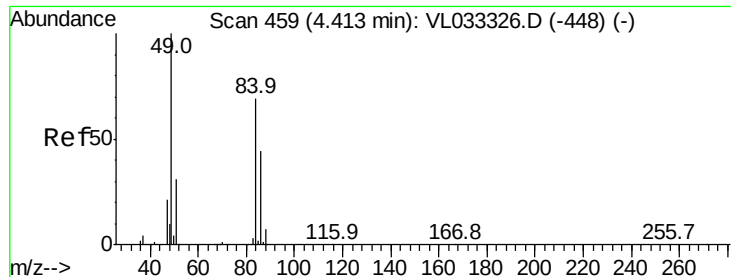
Tgt Ion: 45 Resp: 5351

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#

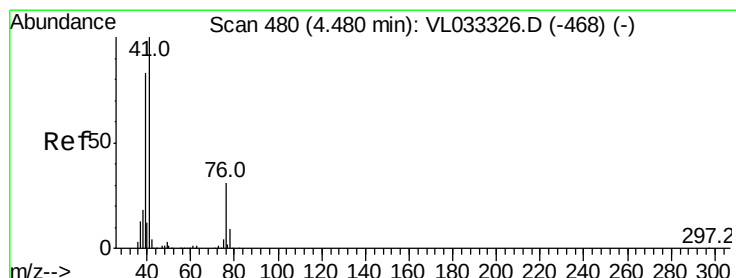
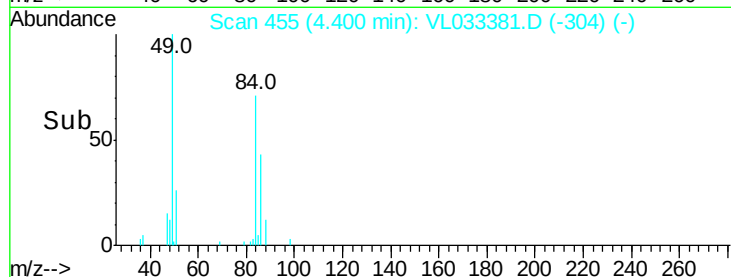
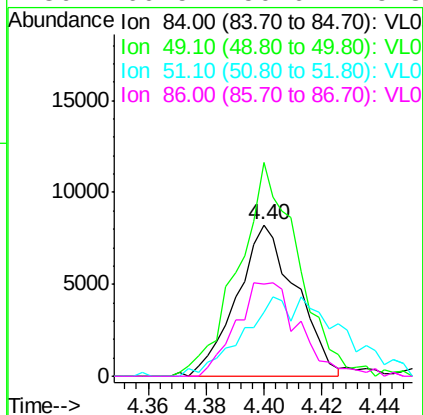
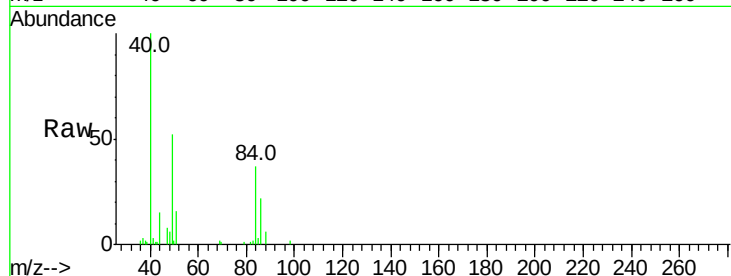




#20  
Methylene Chloride  
Concen: 0.320 ppbv  
RT: 4.40 min Scan# 455  
Delta R.T. -0.01 min  
Lab File: VL033381.D  
Acq: 19 Mar 2019 7:52

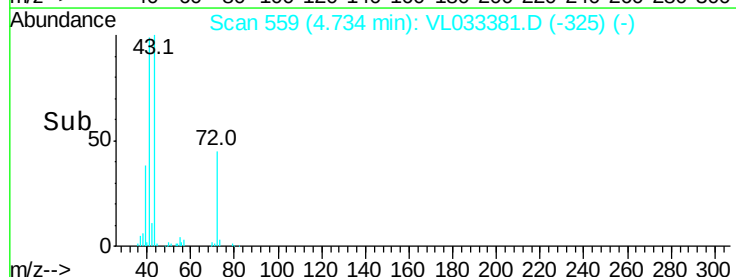
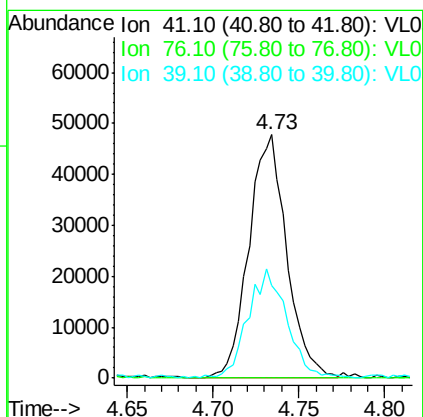
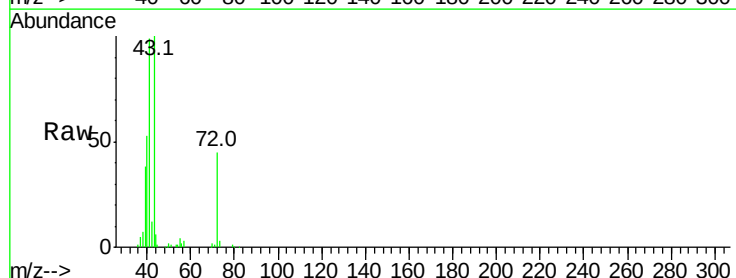
Instrument :  
MSVOA\_L  
ClientSampleId :  
ST-SS-3DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 11641 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 139.3 | 115.4 | 173.0 |
| 51       | 37.1  | 35.8  | 53.6  |
| 86       | 60.5  | 50.6  | 75.8  |

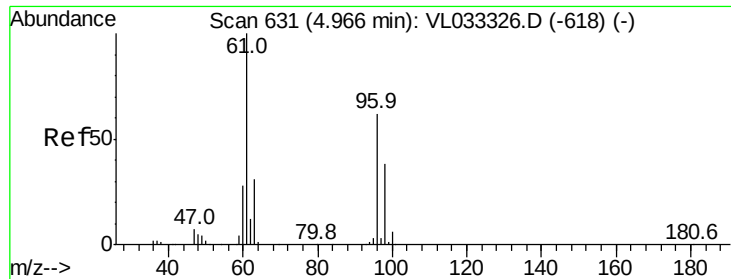


#21  
Allyl Chloride  
Concen: 1.347 ppbv  
RT: 4.73 min Scan# 559  
Delta R.T. 0.25 min  
Lab File: VL033381.D  
Acq: 19 Mar 2019 7:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 72964 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 76       | 0.0   | 25.0  | 37.4# |
| 39       | 46.4  | 65.9  | 98.9# |







#22

trans-1,2-Dichloroethene

Concen: 0.889 ppbv

RT: 4.96 min Scan# 628

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

ST-SS-3DL

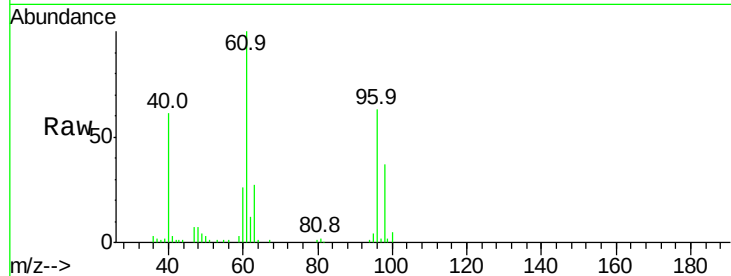
Tgt Ion: 96 Resp: 32875

Ion Ratio Lower Upper

96 100

61 156.4 130.0 195.0

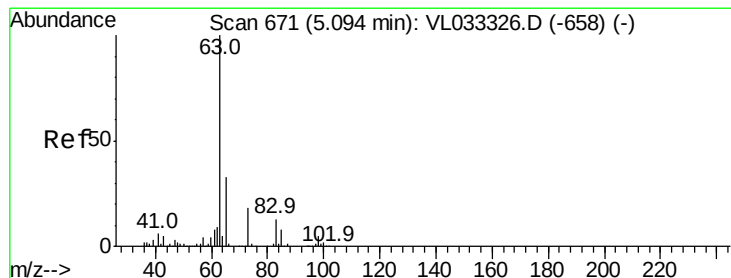
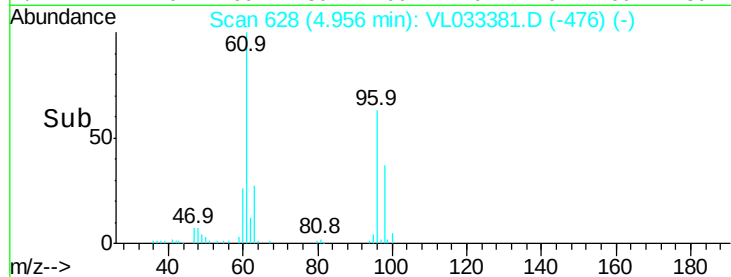
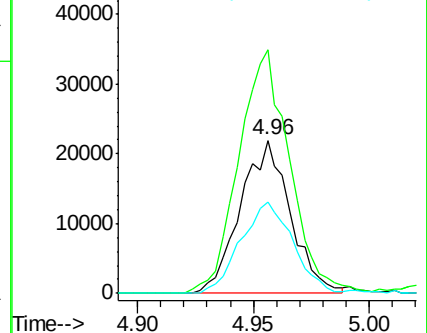
98 59.4 50.0 75.0



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#24

1,1-Dichloroethane

Concen: 0.041 ppbv

RT: 5.08 min Scan# 666

Delta R.T. -0.02 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

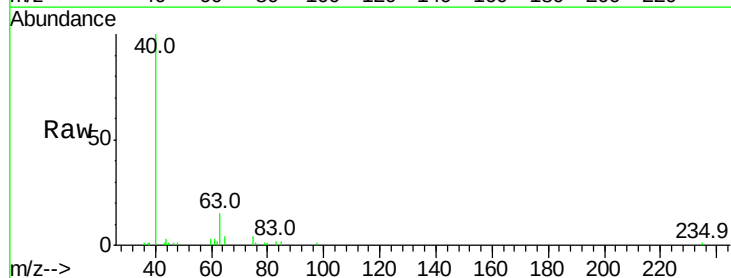
Tgt Ion: 63 Resp: 3850

Ion Ratio Lower Upper

63 100

98 4.1 2.4 7.1

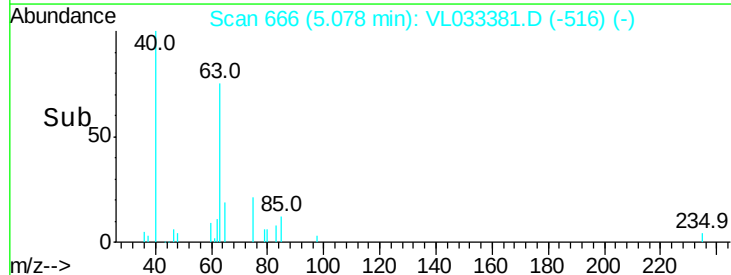
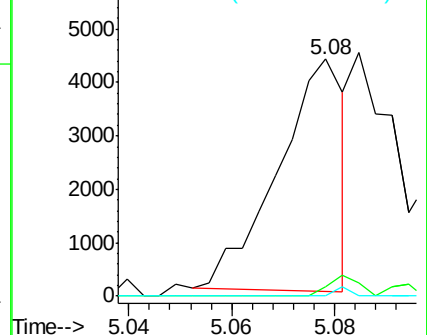
100 0.0 1.3 3.8#

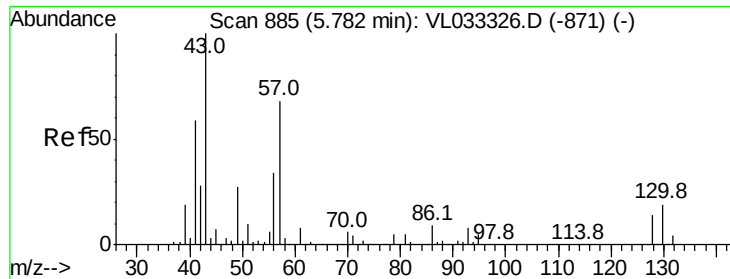


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

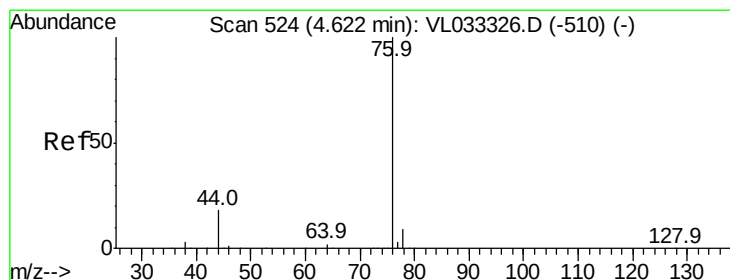
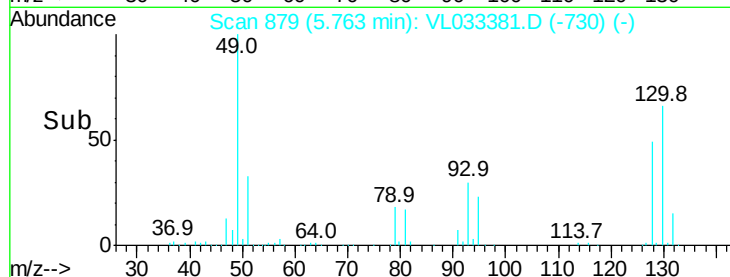
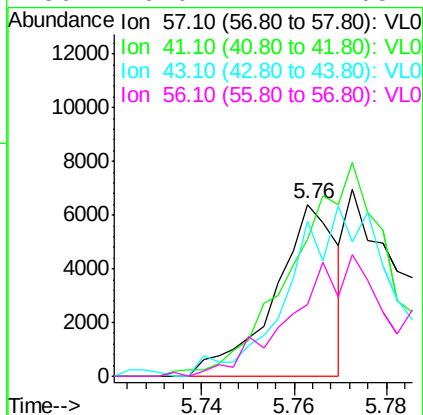
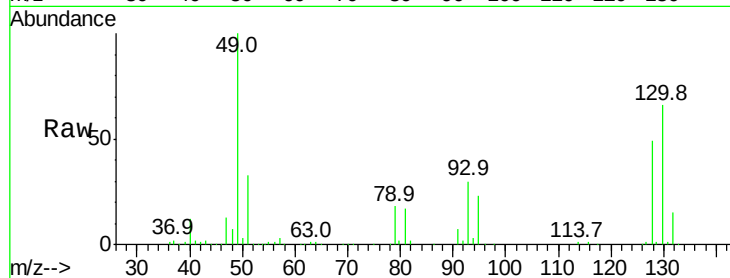




#26  
Hexane  
Concen: 0.082 ppbv  
RT: 5.76 min Scan# 879  
Delta R.T. -0.02 min  
Lab File: VL033381.D  
Acq: 19 Mar 2019 7:52

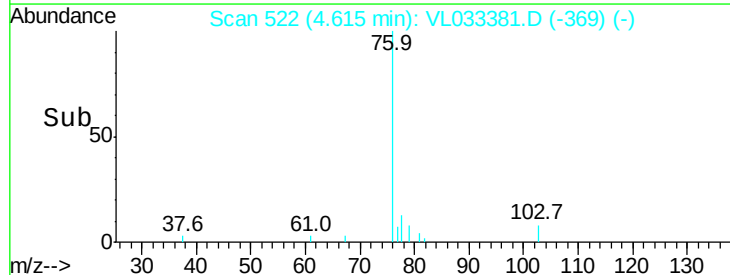
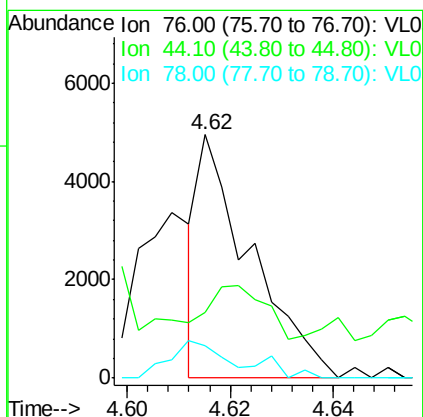
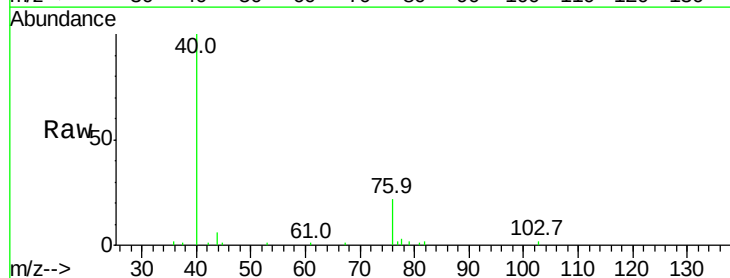
Instrument :  
MSVOA\_L  
ClientSampleId :  
ST-SS-3DL

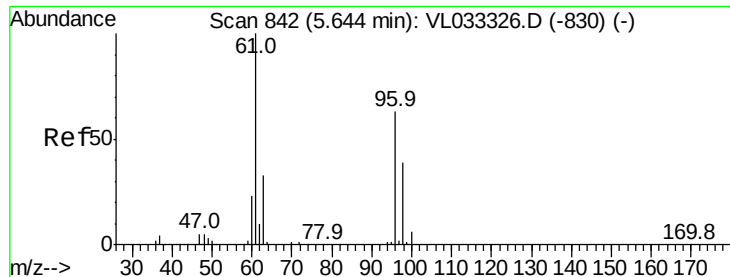
Tgt Ion: 57 Resp: 5950  
Ion Ratio Lower Upper  
57 100  
41 0.0 70.5 105.7#  
43 0.0 181.8 272.8#  
56 0.0 42.2 63.2#



#27  
Carbon Disulfide  
Concen: 0.041 ppbv  
RT: 4.62 min Scan# 522  
Delta R.T. -0.01 min  
Lab File: VL033381.D  
Acq: 19 Mar 2019 7:52

Tgt Ion: 76 Resp: 3463  
Ion Ratio Lower Upper  
76 100  
44 77.6 15.2 22.8#  
78 20.8 7.2 10.8#





#31

cis-1,2-Dichloroethene

Concen: 8.505 ppbv

RT: 5.63 min Scan# 838

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

ST-SS-3DL

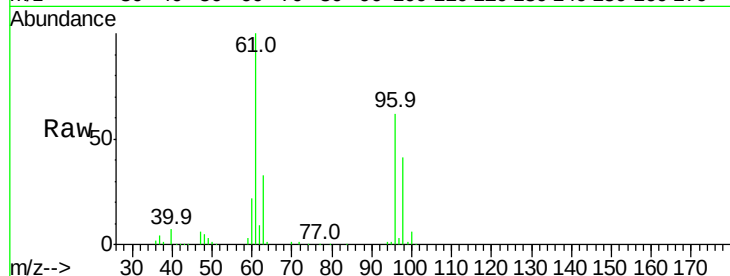
Tgt Ion: 61 Resp: 617061

Ion Ratio Lower Upper

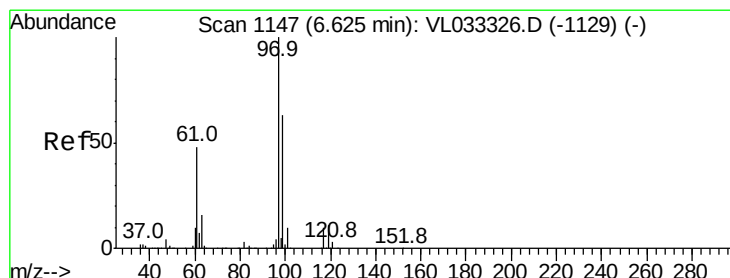
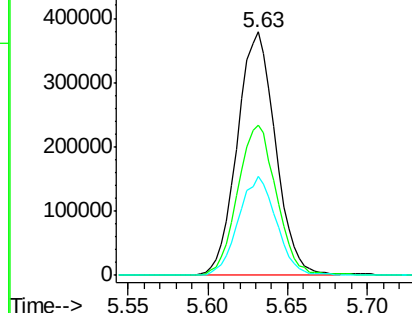
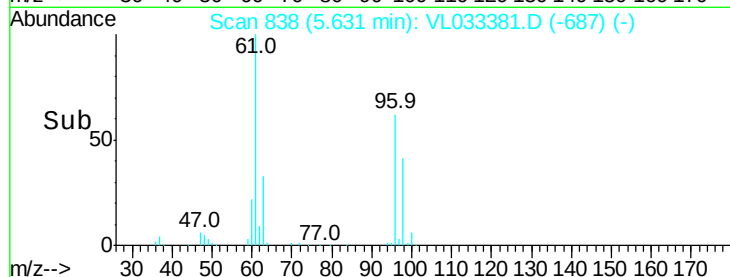
61 100

96 61.6 50.3 75.5

98 40.5 31.5 47.3



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



#32

1,1,1-Trichloroethane

Concen: 0.267 ppbv

RT: 6.61 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

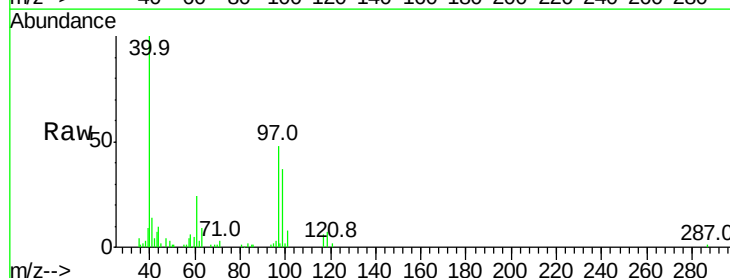
Tgt Ion: 97 Resp: 31166

Ion Ratio Lower Upper

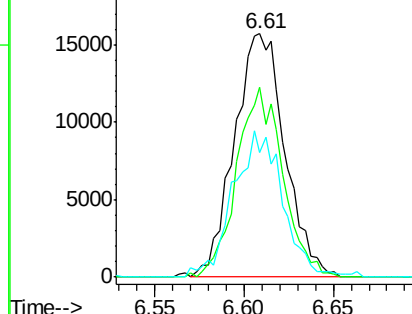
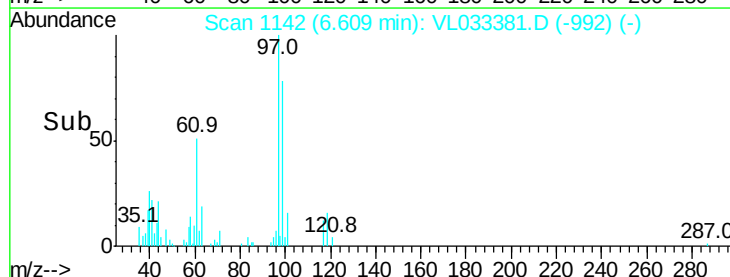
97 100

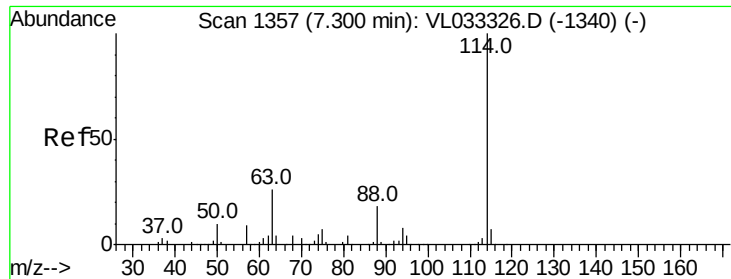
99 71.1 51.0 76.6

61 58.5 39.3 58.9



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

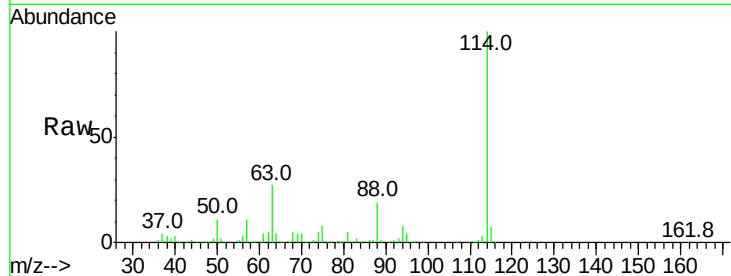




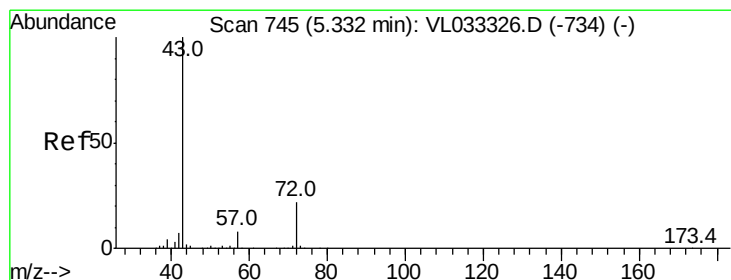
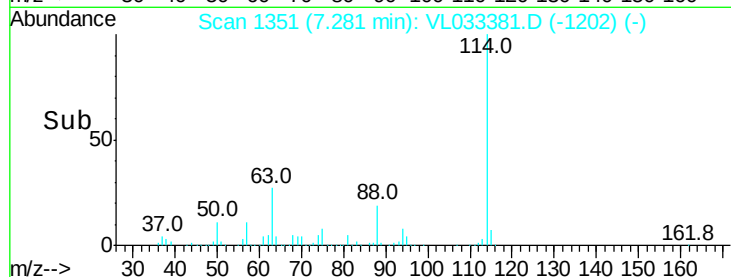
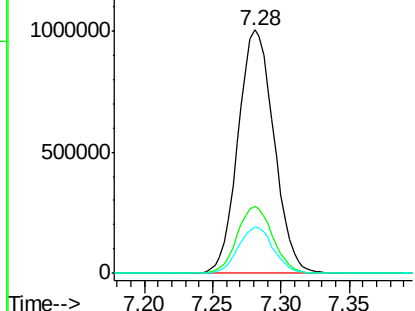
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.28 min Scan# 1351  
 Delta R.T. -0.02 min  
 Lab File: VL033381.D  
 Acq: 19 Mar 2019 7:52

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ST-SS-3DL

Tgt Ion:114 Resp: 1835734  
 Ion Ratio Lower Upper  
 114 100  
 63 27.3 21.4 32.2  
 88 18.7 14.5 21.7

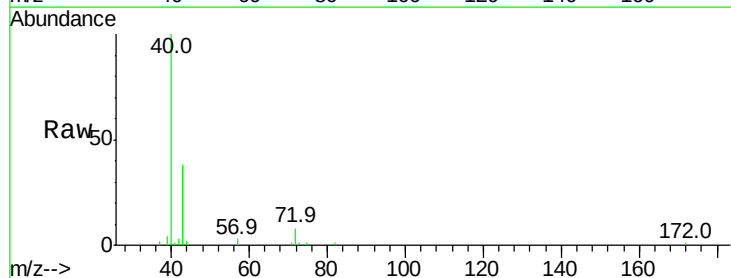


Abundance Ion 114.10 (113.80 to 114.80): V  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

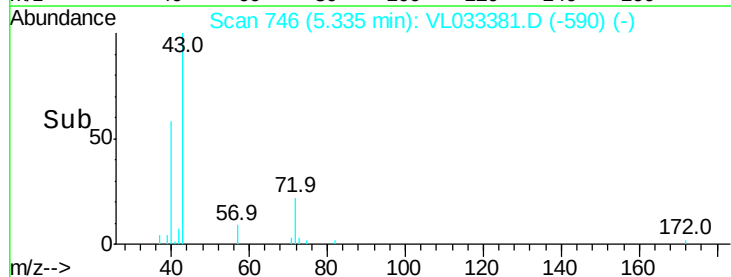
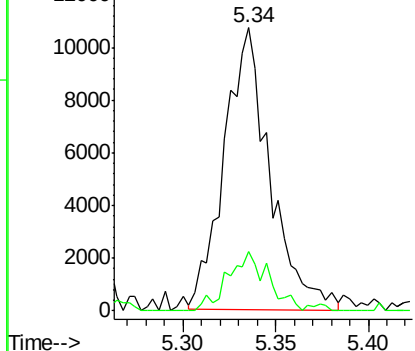


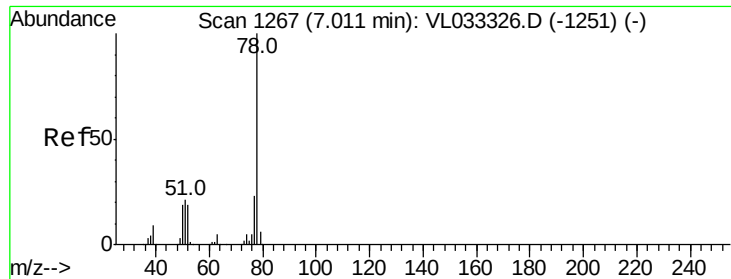
#34  
 2-Butanone  
 Concen: 0.152 ppbv  
 RT: 5.34 min Scan# 746  
 Delta R.T. 0.00 min  
 Lab File: VL033381.D  
 Acq: 19 Mar 2019 7:52

Tgt Ion: 43 Resp: 18308  
 Ion Ratio Lower Upper  
 43 100  
 72 19.5 17.7 26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0  
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.084 ppbv

RT: 6.99 min Scan# 1261

Delta R.T. -0.02 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

ST-SS-3DL

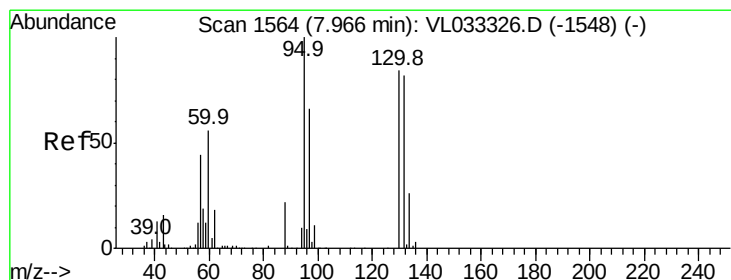
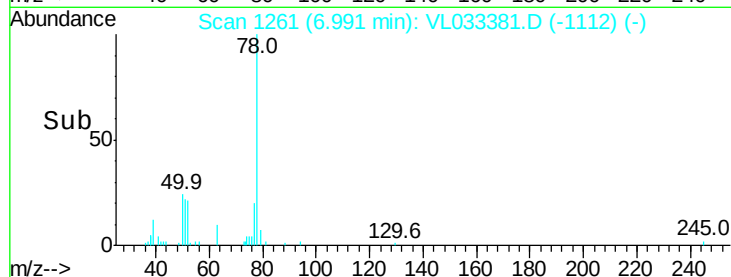
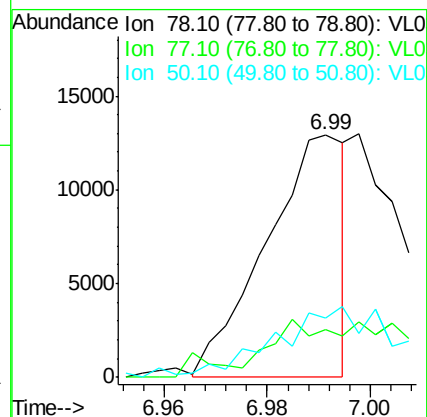
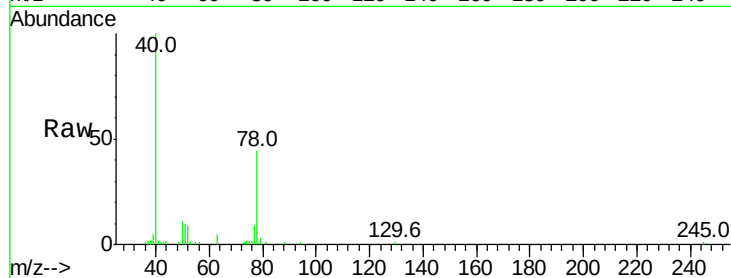
Tgt Ion: 78 Resp: 13777

Ion Ratio Lower Upper

78 100

77 10.0 18.1 27.1#

50 22.5 15.2 22.8



#38

Trichloroethene

Concen: 4.489 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.02 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Tgt Ion: 130 Resp: 279098

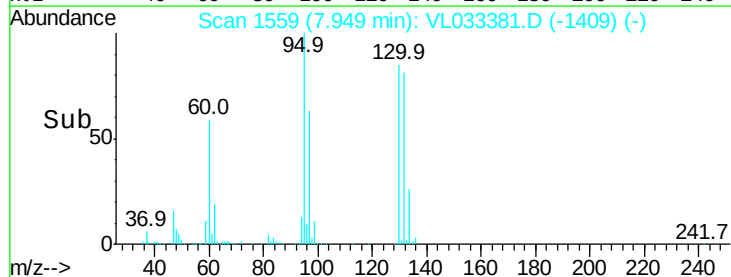
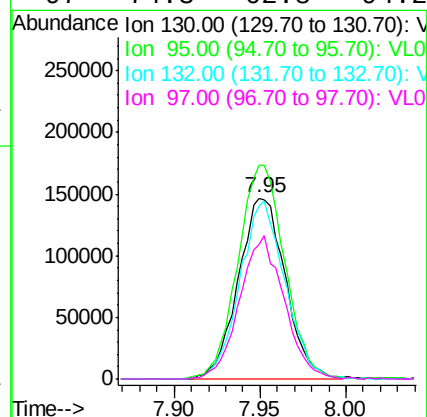
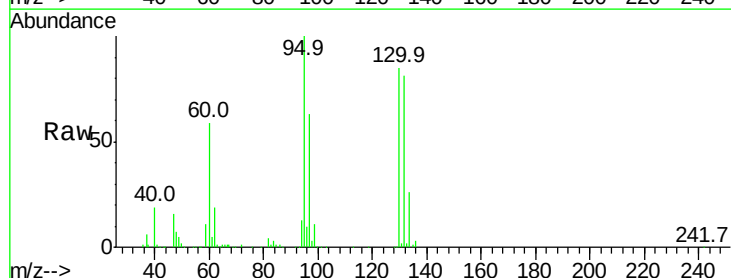
Ion Ratio Lower Upper

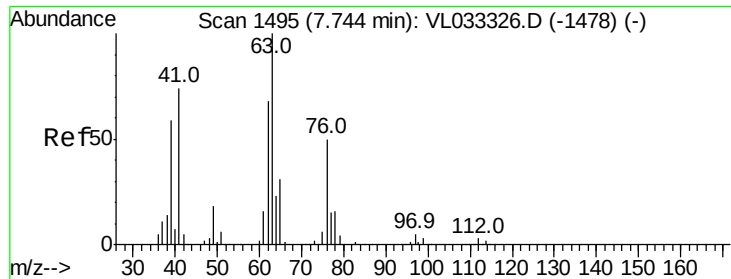
130 100

95 117.4 95.2 142.8

132 95.1 77.7 116.5

97 74.3 62.8 94.2





#39

1,2-Dichloropropane

Concen: 8.098 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.46 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

ST-SS-3DL

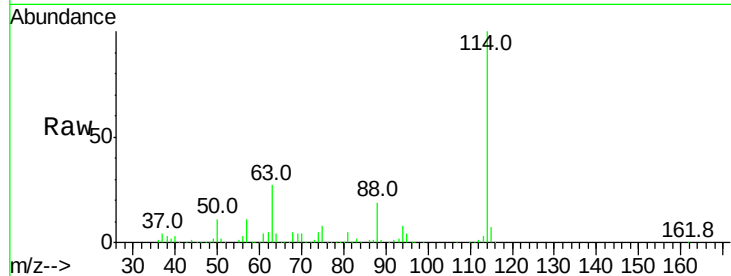
Tgt Ion: 63 Resp: 498235

Ion Ratio Lower Upper

63 100

41 0.1 59.5 89.3#

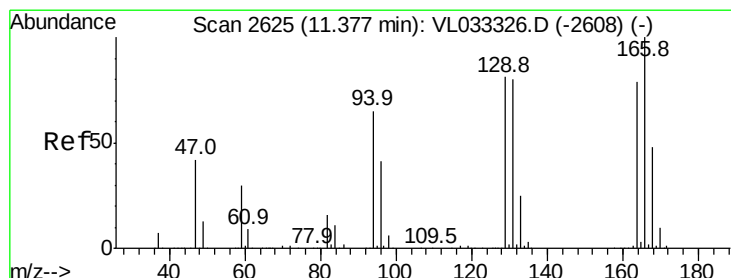
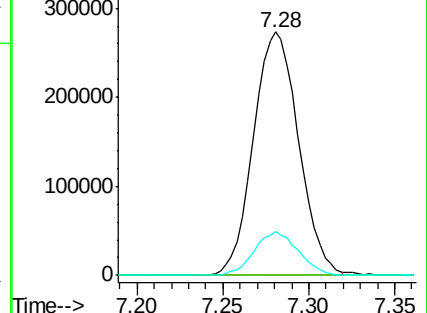
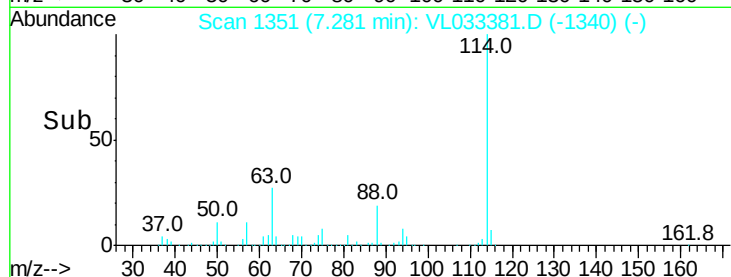
62 17.7 54.7 82.1#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#52

Tetrachloroethene

Concen: 35.040 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Tgt Ion: 164 Resp: 2398255

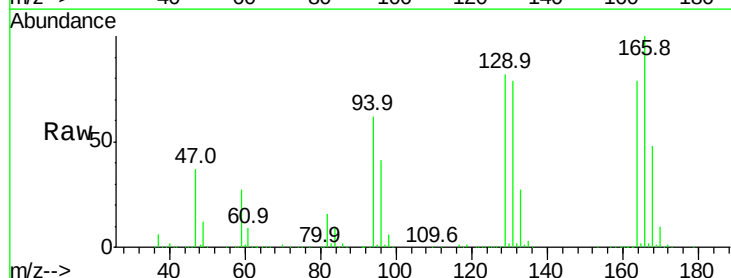
Ion Ratio Lower Upper

164 100

166 126.7 101.5 152.3

129 103.7 82.2 123.2

131 100.3 81.1 121.7

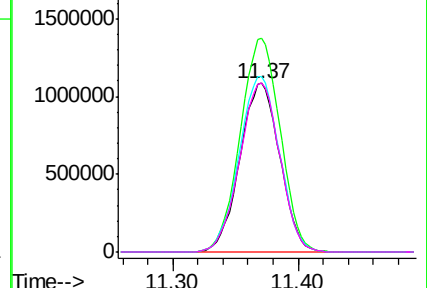
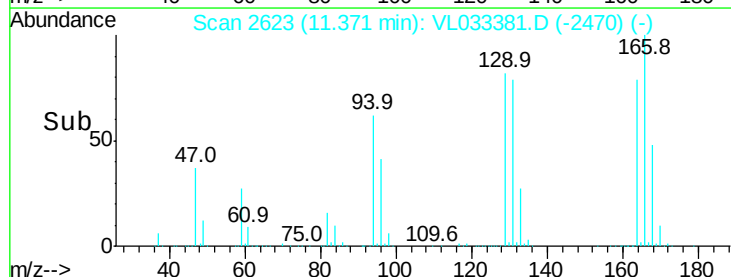


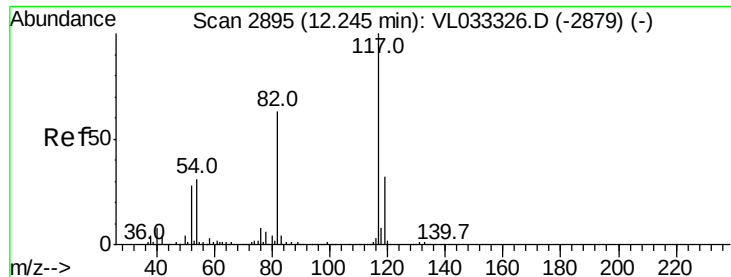
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

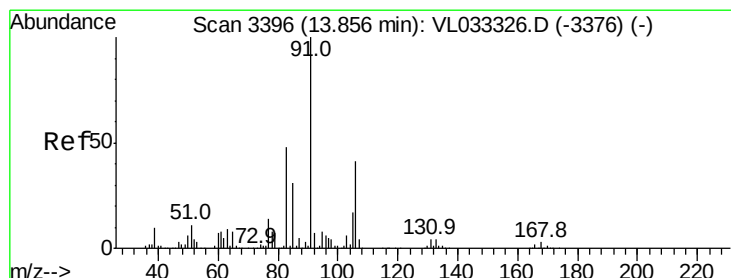
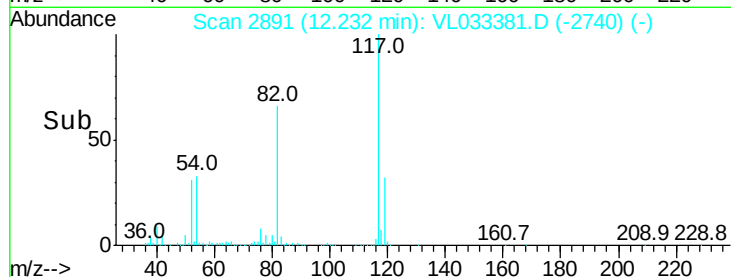
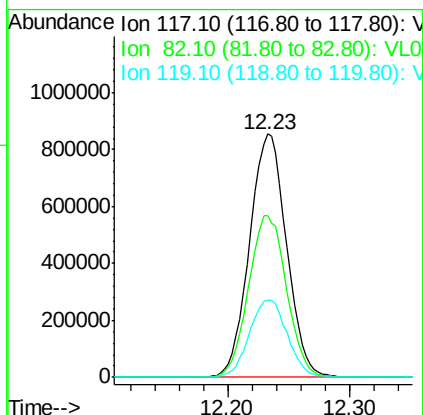
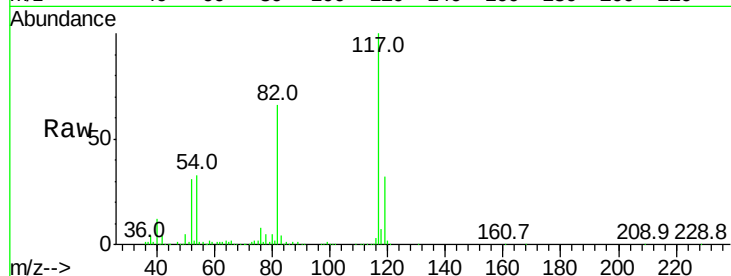




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.23 min Scan# 2891  
Delta R.T. -0.01 min  
Lab File: VL033381.D  
Acq: 19 Mar 2019 7:52

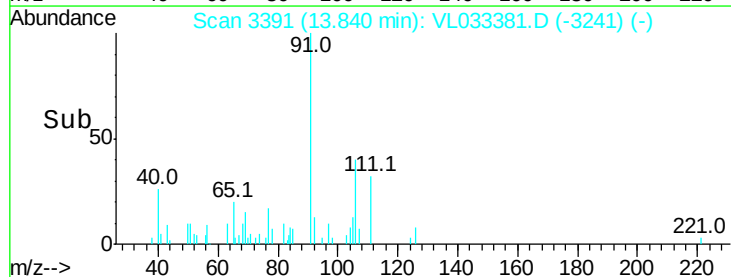
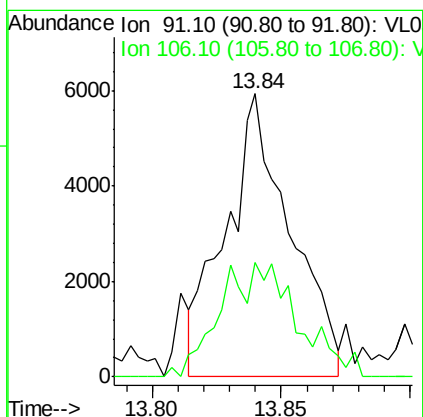
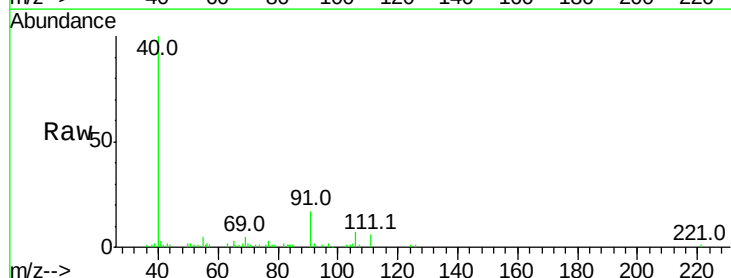
Instrument :  
MSVOA\_L  
ClientSampleId :  
ST-SS-3DL

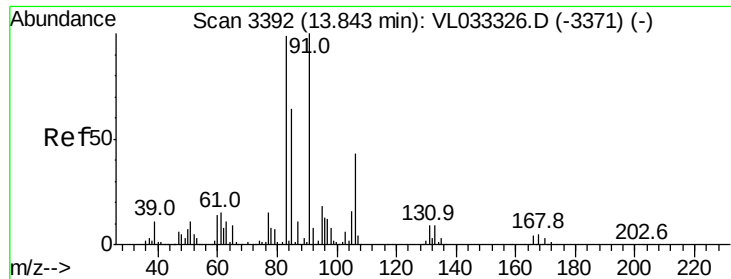
Tgt Ion: 117 Resp: 1789323  
Ion Ratio Lower Upper  
117 100  
82 68.4 53.4 80.2  
119 32.7 27.3 40.9



#60  
o-Xylene  
Concen: 0.049 ppbv  
RT: 13.84 min Scan# 3391  
Delta R.T. -0.02 min  
Lab File: VL033381.D  
Acq: 19 Mar 2019 7:52

Tgt Ion: 91 Resp: 10347  
Ion Ratio Lower Upper  
91 100  
106 48.3 21.3 63.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.032 ppbv

RT: 13.92 min Scan# 3417

Delta R.T. 0.08 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

ST-SS-3DL

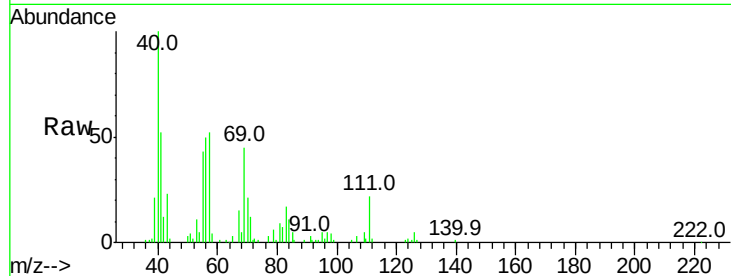
Tgt Ion: 83 Resp: 4865

Ion Ratio Lower Upper

83 100

131 0.8 4.7 14.0#

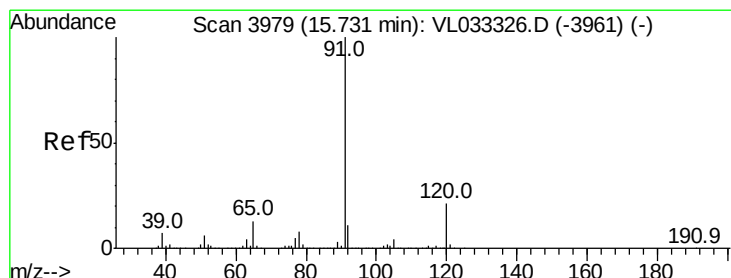
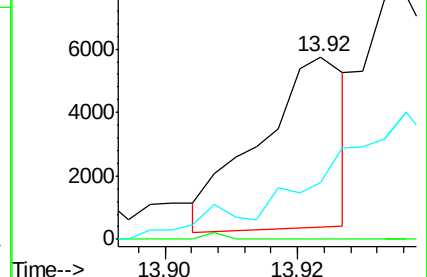
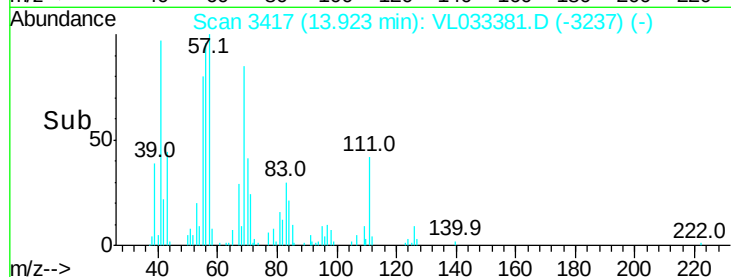
85 0.0 32.5 97.4#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.054 ppbv

RT: 15.71 min Scan# 3972

Delta R.T. -0.02 min

Lab File: VL033381.D

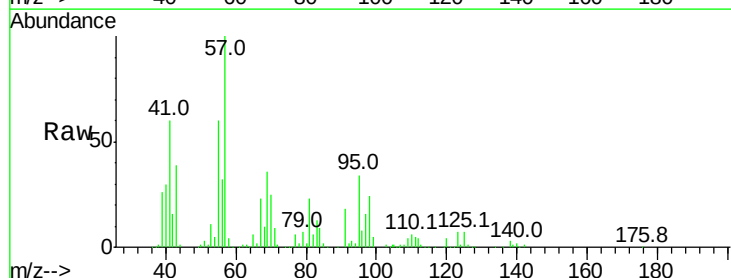
Acq: 19 Mar 2019 7:52

Tgt Ion: 120 Resp: 4064

Ion Ratio Lower Upper

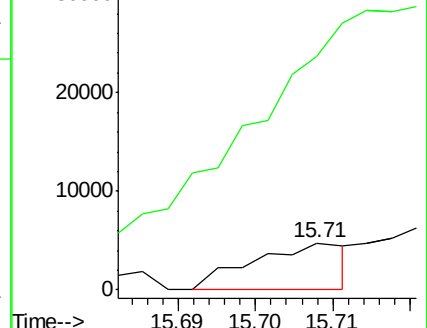
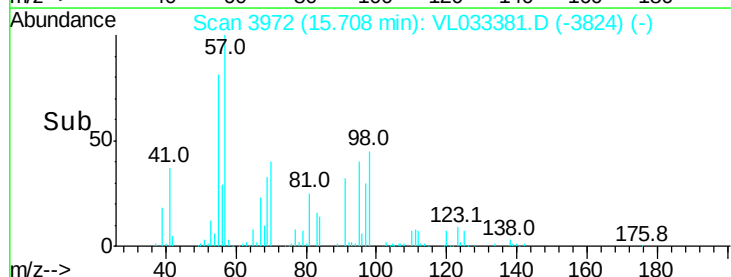
120 100

91 0.0 389.8 584.6#

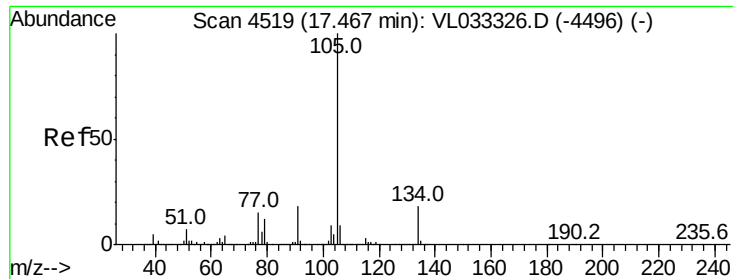


Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0







#67

sec-Butylbenzene

Concen: 0.072 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

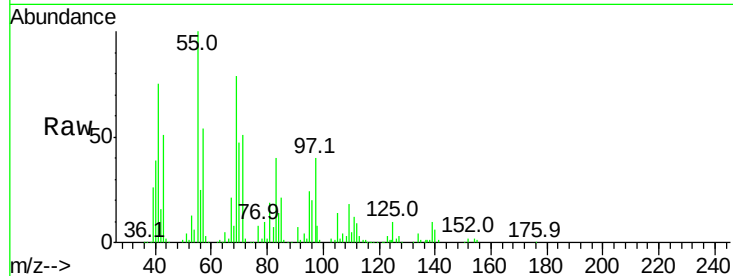
ST-SS-3DL

Tgt Ion: 105 Resp: 27076

Ion Ratio Lower Upper

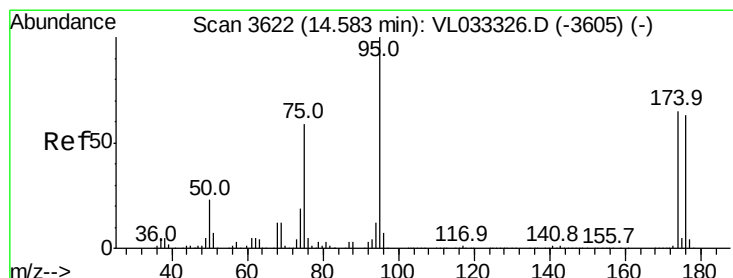
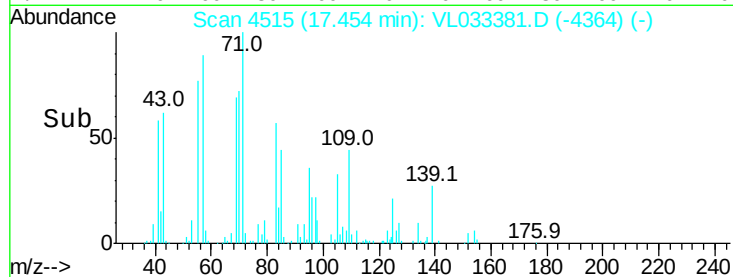
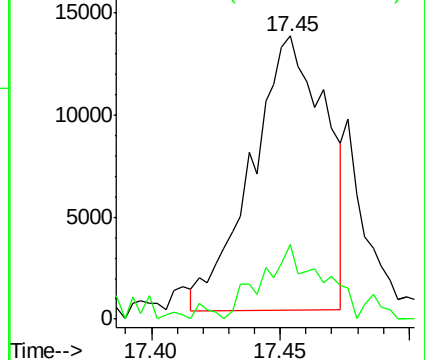
105 100

134 24.7 14.2 21.4#



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: 11.250 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

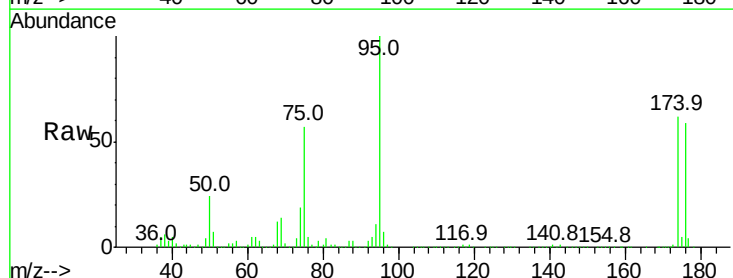
Tgt Ion: 95 Resp: 1491623

Ion Ratio Lower Upper

95 100

174 63.3 51.5 77.3

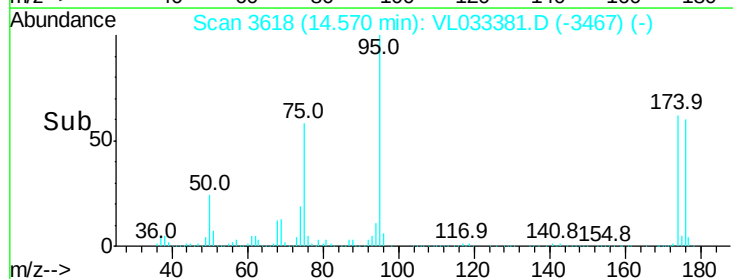
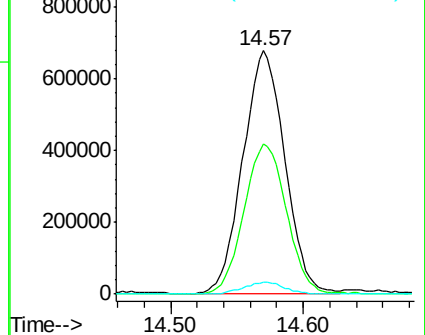
175 4.7 3.8 5.6

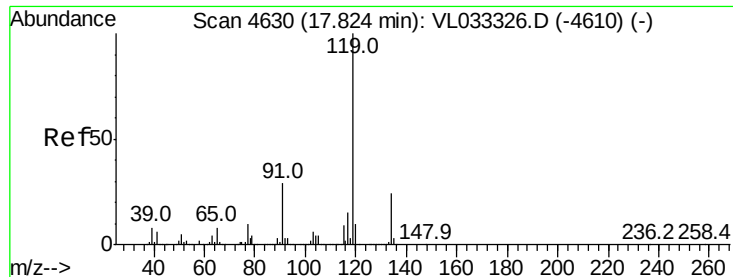


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.055 ppbv

RT: 17.81 min Scan# 4626

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

ST-SS-3DL

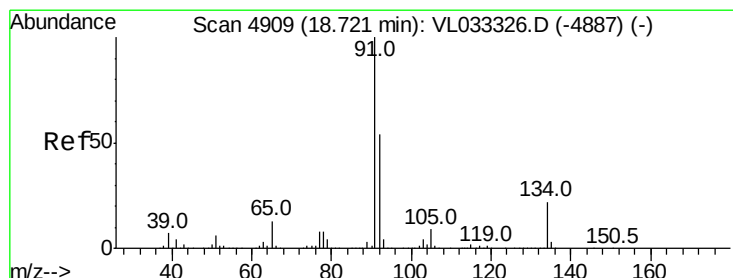
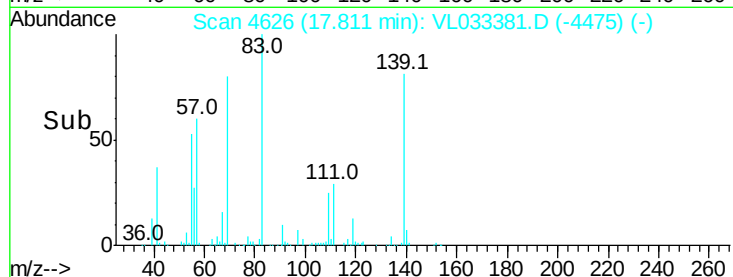
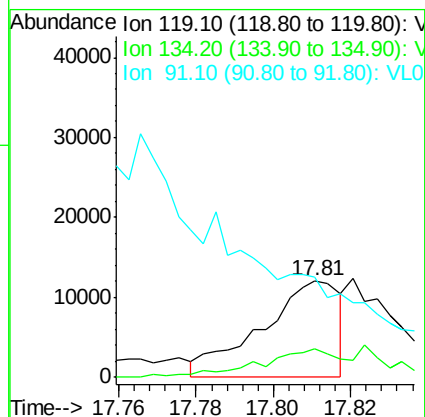
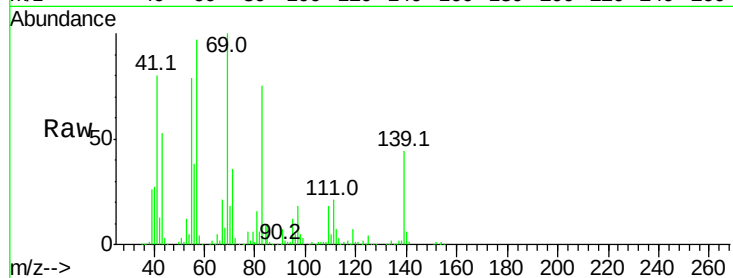
Tgt Ion: 119 Resp: 17009

Ion Ratio Lower Upper

119 100

134 0.0 19.8 29.6#

91 0.0 23.4 35.2#



#70

n-Butylbenzene

Concen: 0.043 ppbv

RT: 18.71 min Scan# 4907

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

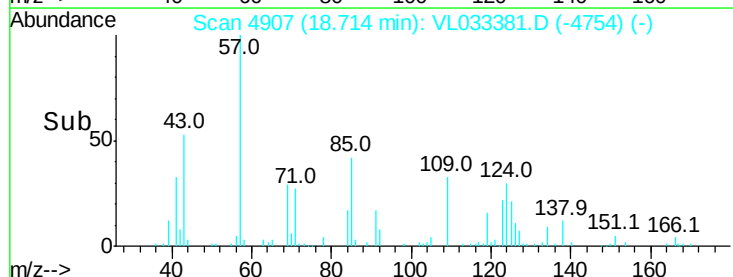
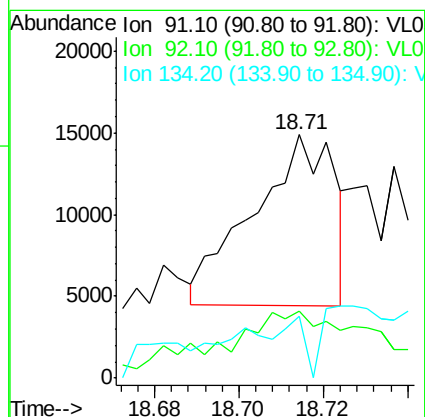
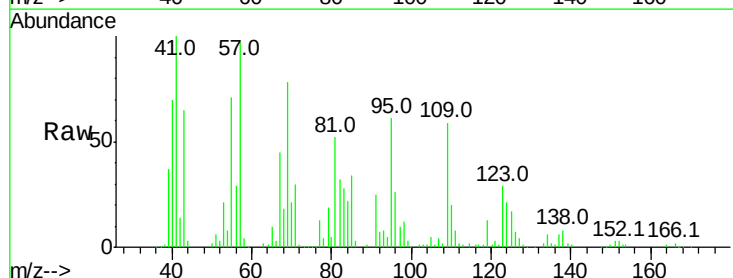
Tgt Ion: 91 Resp: 13948

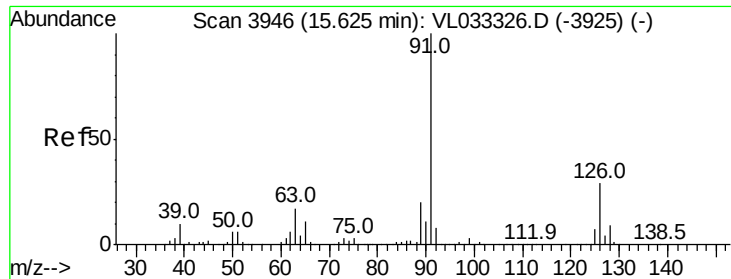
Ion Ratio Lower Upper

91 100

92 73.2 42.8 64.2#

134 0.0 17.4 26.0#





#71

2-Chlorotoluene

Concen: 0.295 ppbv

RT: 15.72 min Scan# 3976

Delta R.T. 0.10 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

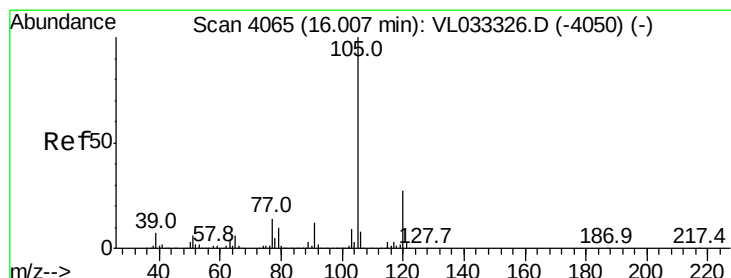
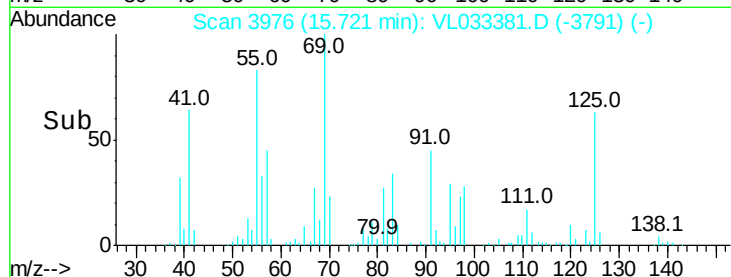
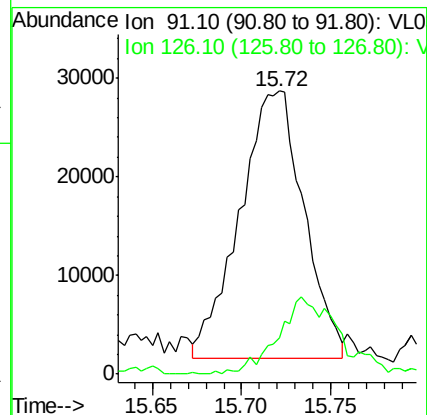
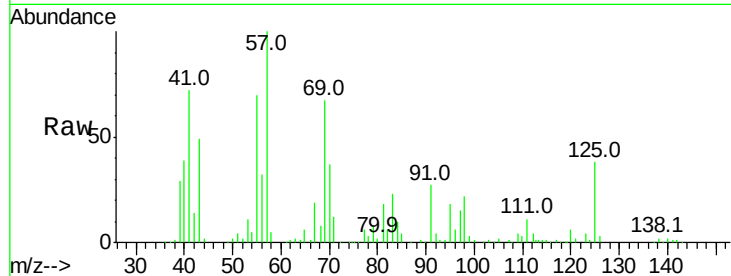
ST-SS-3DL

Tgt Ion: 91 Resp: 67856

Ion Ratio Lower Upper

91 100

126 28.3 11.6 46.6



#72

4-Ethyltoluene

Concen: 0.062 ppbv

RT: 15.99 min Scan# 4060

Delta R.T. -0.02 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Tgt Ion:105 Resp: 14863

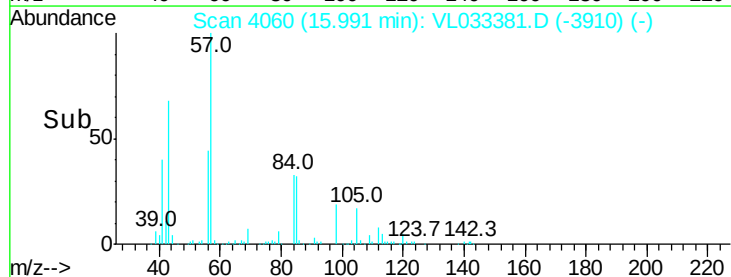
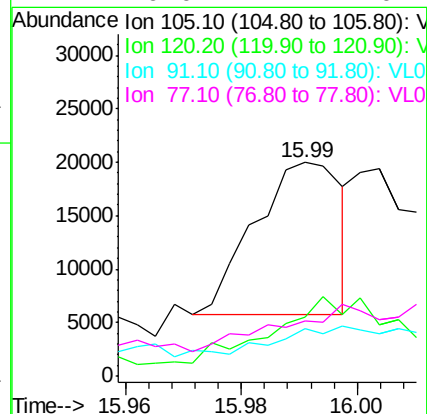
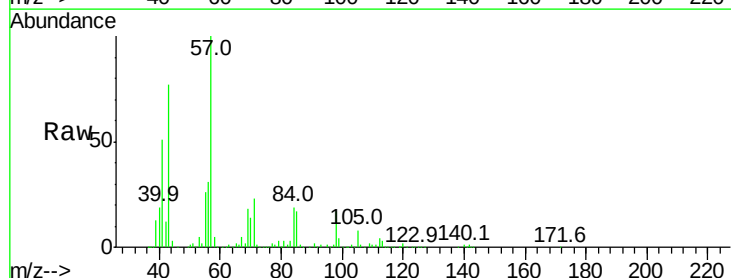
Ion Ratio Lower Upper

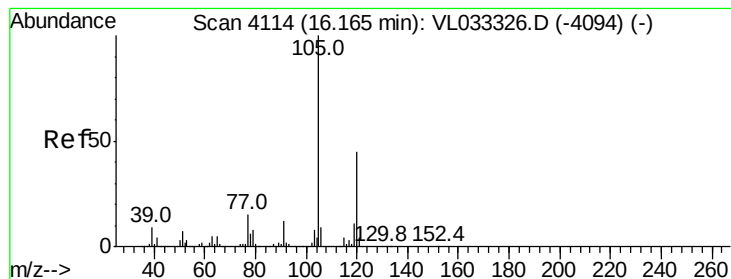
105 100

120 95.0 22.9 34.3#

91 87.6 10.2 15.2#

77 0.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.250 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Instrument :

MSVOA\_L

ClientSampleId :

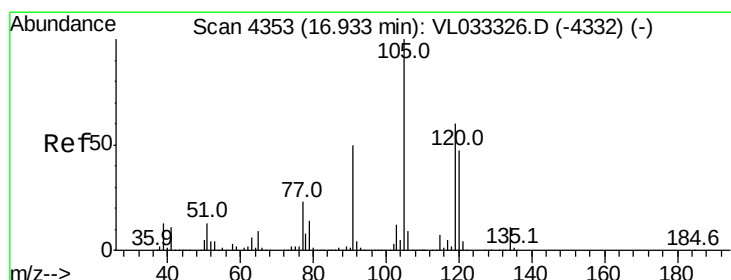
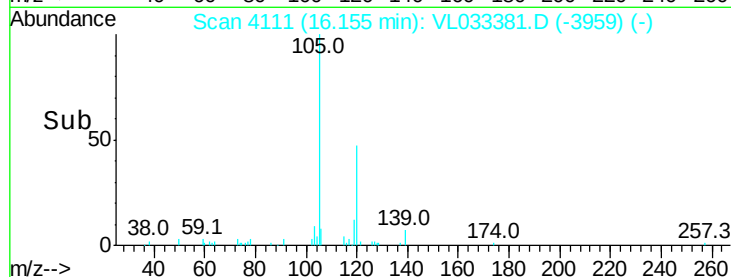
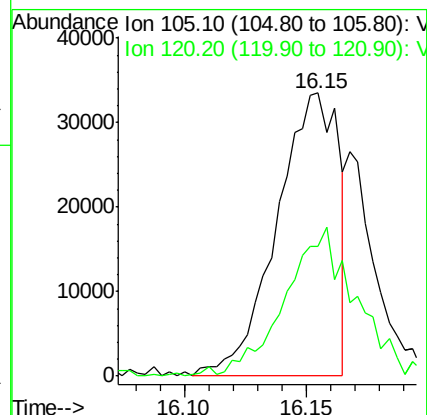
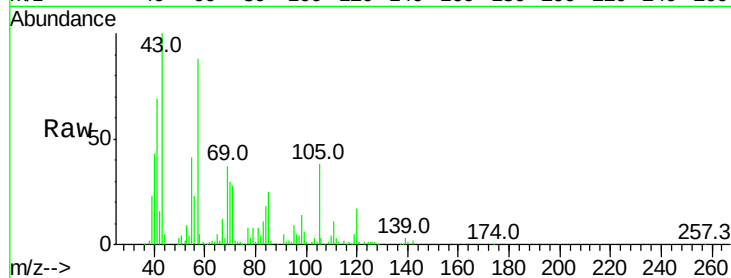
ST-SS-3DL

Tgt Ion:105 Resp: 58727

Ion Ratio Lower Upper

105 100

120 43.3 36.2 54.4



#74

1,2,4-Trimethylbenzene

Concen: 0.363 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033381.D

Acq: 19 Mar 2019 7:52

Tgt Ion:105 Resp: 90263

Ion Ratio Lower Upper

105 100

120 37.7 37.4 56.2

91 11.7 41.0 61.4#

77 18.1 18.5 27.7#

