

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL070218\  
 Data File : VL032189.D  
 Acq On : 2 Jul 2018 19:49  
 Operator : SY/AP  
 Sample : J3753-01  
 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

Quant Time: Jul 03 05:04:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 29 22:27:58 2018  
 QLast Update : Fri Jun 29 22:27:58 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.85  | 49   | 1373347  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.39  | 114  | 3944114  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.34 | 117  | 3506616  | 10.00 | ppbv  | -0.02    |

|                             |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| System Monitoring Compounds |        |       |          |          |      |        |
| 68) 1-Bromo-4-Fluorobenzene | 14.68  | 95    | 2620488  | 9.78     | ppbv | -0.02  |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 97.80% |

| Target Compounds               |       |     |          |         |        | Qvalue |
|--------------------------------|-------|-----|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.13  | 85  | 45099    | 0.249   | ppbv   | 96     |
| 3) Chlorodifluoromethane       | 3.07  | 51  | 105117   | 0.626   | ppbv # | 88     |
| 4) Chloromethane               | 3.23  | 50  | 23076    | 0.258   | ppbv # | 80     |
| 7) Chloroethane                | 3.67  | 64  | 122541   | 3.830   | ppbv   | 96     |
| 9) Propene                     | 3.09  | 41  | 151323   | 1.935   | ppbv   | 96     |
| 10) Heptane                    | 8.34  | 43  | 298769   | 1.310   | ppbv   | 98     |
| 11) Trichlorofluoromethane     | 4.07  | 101 | 105932   | 0.541   | ppbv   | 94     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.63  | 101 | 320541   | 2.460   | ppbv   | 89     |
| 13) Ethanol                    | 3.75  | 45  | 11093397 | 467.900 | ppbv   | 98     |
| 15) Acetone                    | 3.97  | 43  | 7459119  | 46.450  | ppbv   | 100    |
| 16) 1,3-Butadiene              | 3.40  | 39  | 142183   | 1.855   | ppbv # | 7      |
| 17) tert-Butyl alcohol         | 4.47  | 59  | 1110509  | 10.861  | ppbv   | 98     |
| 18) 1,1-Dichloroethene         | 4.43  | 96  | 116009   | 1.861   | ppbv   | 96     |
| 19) Isopropyl Alcohol          | 4.13  | 45  | 7048237  | 52.826  | ppbv # | 41     |
| 20) Methylene Chloride         | 4.48  | 84  | 31669    | 0.540   | ppbv   | 84     |
| 21) Allyl Chloride             | 4.47  | 41  | 454045   | 4.141   | ppbv # | 68     |
| 22) trans-1,2-Dichloroethene   | 5.05  | 96  | 74068    | 1.137   | ppbv   | 95     |
| 23) Vinyl Acetate              | 5.23  | 43  | 620363   | 2.130   | ppbv # | 71     |
| 24) 1,1-Dichloroethane         | 5.17  | 63  | 3599758  | 19.296  | ppbv   | 98     |
| 25) Ethyl Acetate              | 5.86  | 43  | 394695   | 1.188   | ppbv # | 95     |
| 26) Hexane                     | 5.86  | 57  | 236361   | 1.545   | ppbv   | 82     |
| 29) Chloroform                 | 5.94  | 83  | 27958    | 0.126   | ppbv   | 89     |
| 30) Cyclohexane                | 7.34  | 84  | 116279   | 0.806   | ppbv   | 89     |
| 31) cis-1,2-Dichloroethene     | 5.73  | 61  | 23846    | 0.156   | ppbv   | 87     |
| 32) 1,1,1-Trichloroethane      | 6.71  | 97  | 11889235 | 50.927  | ppbv   | 95     |
| 34) 2-Butanone                 | 5.41  | 43  | 1583107  | 6.324   | ppbv   | 99     |
| 36) Benzene                    | 7.10  | 78  | 258090   | 0.676   | ppbv   | 98     |
| 37) 1,2-Dichloroethane         | 6.51  | 62  | 9736     | 0.051   | ppbv # | 79     |
| 38) Trichloroethene            | 8.06  | 130 | 15632    | 0.105   | ppbv   | 95     |
| 39) 1,2-Dichloropropane        | 7.39  | 63  | 1064250  | 7.069   | ppbv # | 27     |
| 41) Tetrahydrofuran            | 6.24  | 42  | 63257    | 0.422   | ppbv # | 74     |
| 42) Bromodichloromethane       | 8.01  | 83  | 13693    | 0.046   | ppbv # | 33     |
| 43) Methyl Methacrylate        | 8.23  | 69  | 14825    | 0.094   | ppbv # | 54     |
| 44) 2,2,4-Trimethylpentane     | 8.09  | 57  | 2066776  | 3.094   | ppbv   | 94     |
| 50) 4-Methyl-2-Pentanone       | 8.97  | 43  | 267816   | 0.653   | ppbv   | 99     |
| 51) 2-Hexanone                 | 10.37 | 43  | 28509    | 0.084   | ppbv # | 27     |
| 53) Toluene                    | 10.05 | 91  | 2272566  | 4.925   | ppbv   | 99     |
| 57) Chlorobenzene              | 12.40 | 112 | 12453    | 0.041   | ppbv # | 59     |
| 58) Ethyl Benzene              | 12.96 | 91  | 698195   | 1.235   | ppbv   | 89     |
| 59) m/p-Xylene                 | 13.22 | 91  | 1975514  | 4.361   | ppbv   | 98     |
| 60) o-Xylene                   | 13.95 | 91  | 820315   | 1.816   | ppbv   | 94     |

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 Misc : 400ml/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

Quant Time: Jul 03 05:04:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Jun 29 22:27:58 2018  
 QLast Update : Fri Jun 29 22:27:58 2018  
 Response via : Initial Calibration

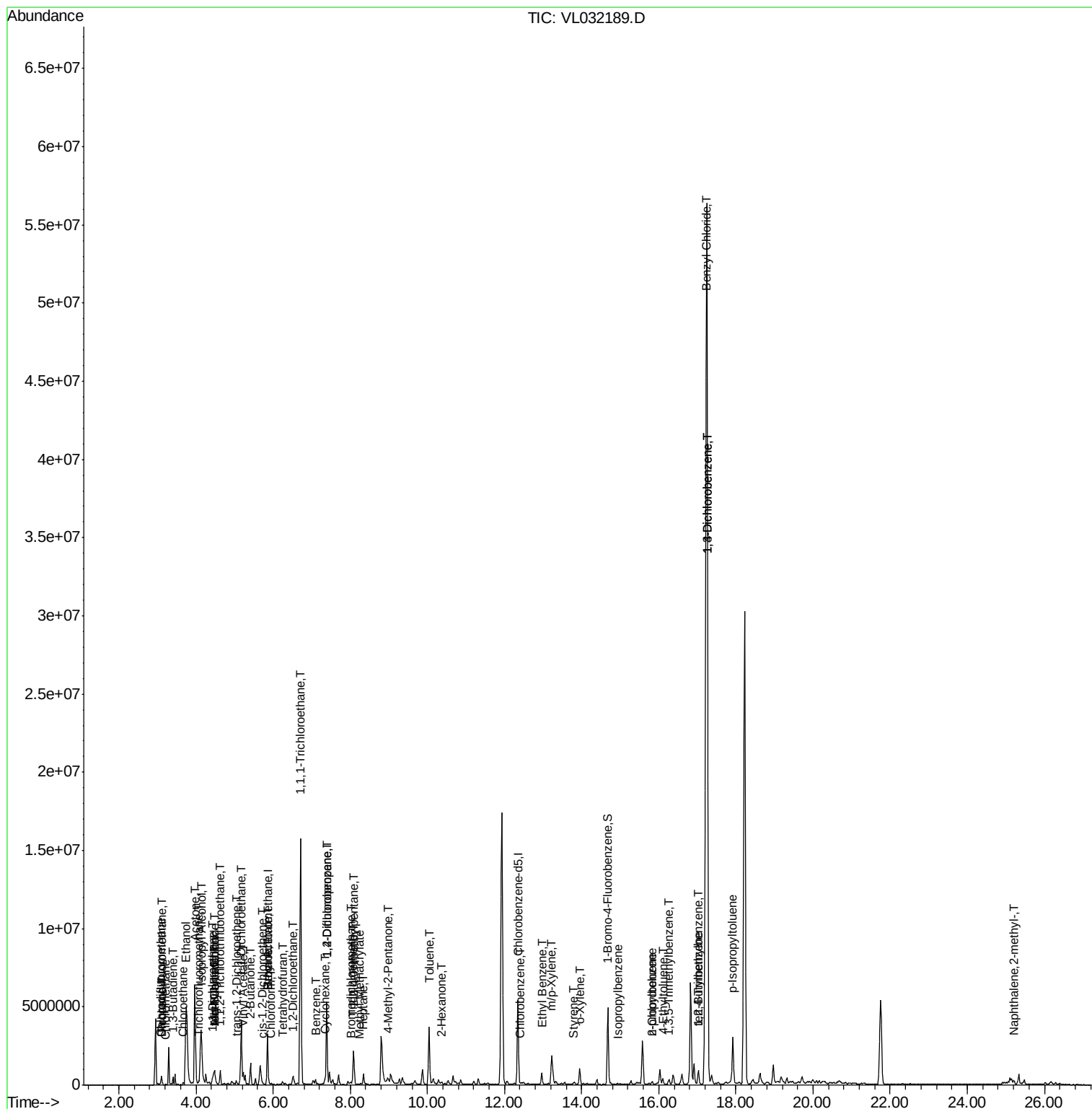
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 61) Styrene                | 13.78 | 104  | 17752    | 0.048 | ppbv # | 30       |
| 62) Isopropylbenzene       | 14.93 | 105  | 54370    | 0.078 | ppbv   | 97       |
| 64) n-propylbenzene        | 15.82 | 120  | 19295    | 0.107 | ppbv # | 1        |
| 65) tert-Butylbenzene      | 17.03 | 119  | 71904    | 0.118 | ppbv # | 56       |
| 66) Benzyl Chloride        | 17.25 | 91   | 12928    | 0.034 | ppbv # | 4        |
| 69) p-Isopropyltoluene     | 17.92 | 119  | 2437228  | 3.399 | ppbv   | 97       |
| 71) 2-Chlorotoluene        | 15.83 | 91   | 208513   | 0.390 | ppbv # | 43       |
| 72) 4-Ethyltoluene         | 16.10 | 105  | 261120   | 0.447 | ppbv   | 94       |
| 73) 1,3,5-Trimethylbenzene | 16.26 | 105  | 127824   | 0.233 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene | 17.03 | 105  | 664517   | 1.198 | ppbv # | 76       |
| 75) 1,3-Dichlorobenzene    | 17.28 | 146  | 403211   | 1.278 | ppbv # | 41       |
| 76) 1,4-Dichlorobenzene    | 17.28 | 146  | 403211   | 1.260 | ppbv # | 43       |
| 80) Naphthalene,2-methyl-  | 25.21 | 142  | 6915     | 0.038 | ppbv # | 43       |

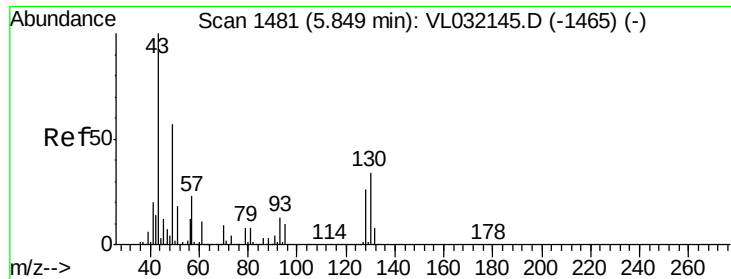
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL070218\  
Data File : VL032189.D  
Acq On    : 2 Jul 2018 19:49  
Operator  : SY/AP  
Sample    : J3753-01  
Misc      : 400ml/MSVOA_L  
ALS Vial  : 1 Sample Multiplier: 1
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**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
INFLUENT

Quant Time: Jul 03 05:04:22 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_L\METHODS\VL062918AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Jun 29 22:27:58 2018  
QLast Update : Fri Jun 29 22:27:58 2018  
Response via : Initial Calibration

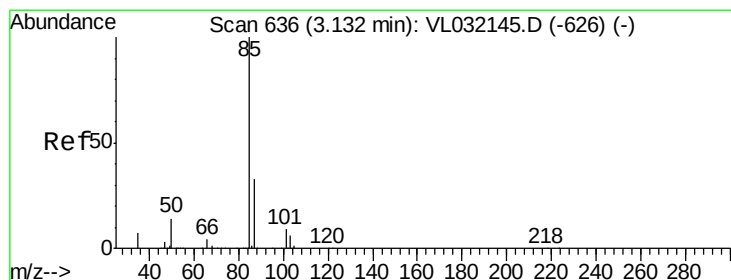
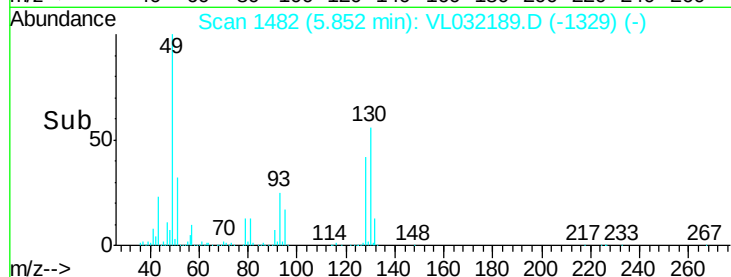
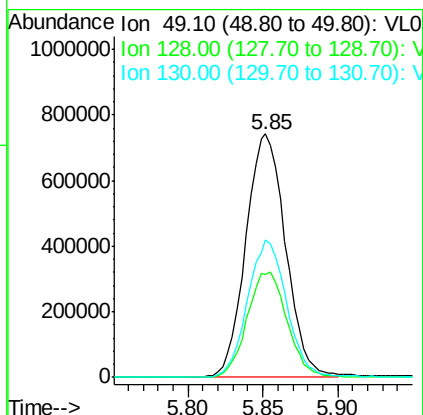
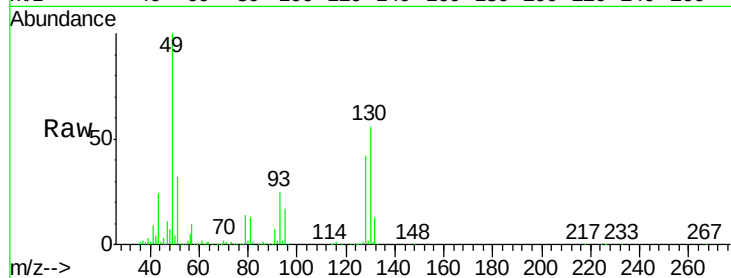




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 5.85 min Scan# 1482  
 Delta R.T. -0.01 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

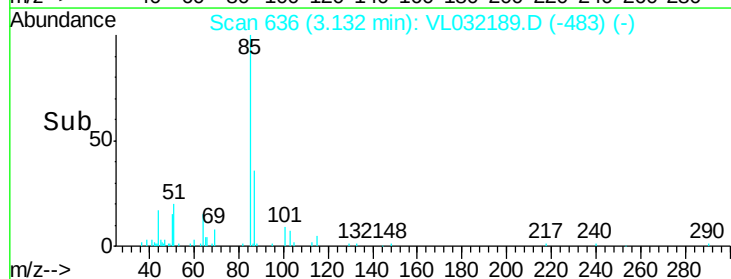
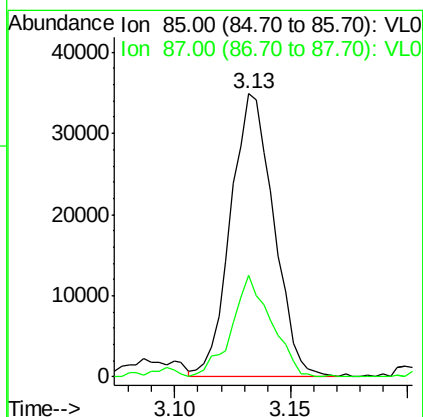
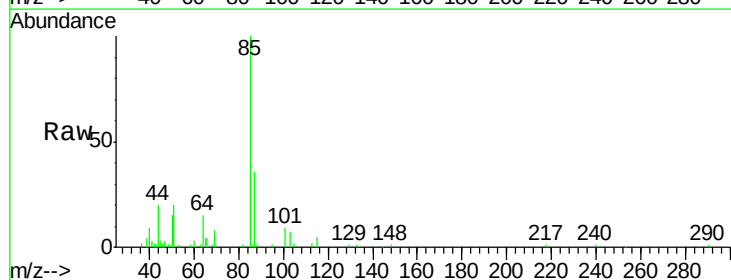
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

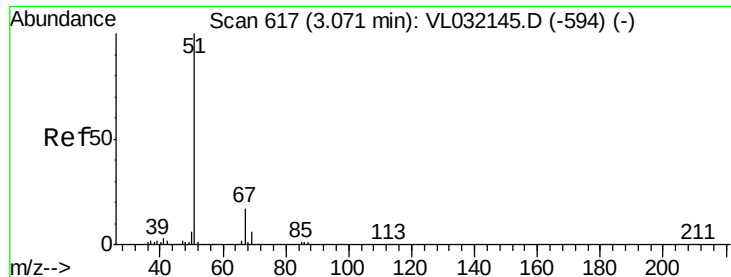
Tgt Ion: 49 Resp: 1373347  
 Ion Ratio Lower Upper  
 49 100  
 128 43.9 23.4 70.0  
 130 55.6 30.3 90.9



#2  
 Dichlorodifluoromethane  
 Concen: 0.249 ppbv  
 RT: 3.13 min Scan# 636  
 Delta R.T. -0.01 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

Tgt Ion: 85 Resp: 45099  
 Ion Ratio Lower Upper  
 85 100  
 87 35.8 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.626 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

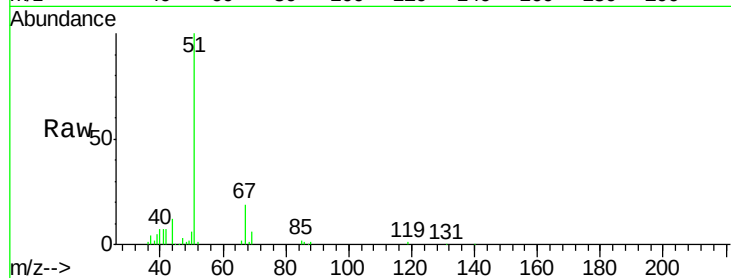
INFLUENT

Tgt Ion: 51 Resp: 105117

Ion Ratio Lower Upper

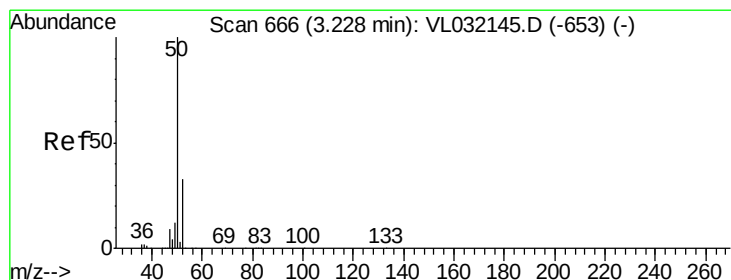
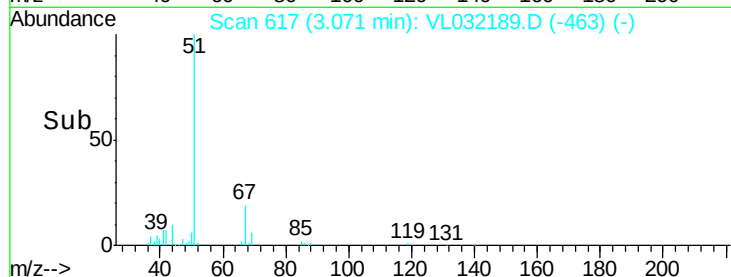
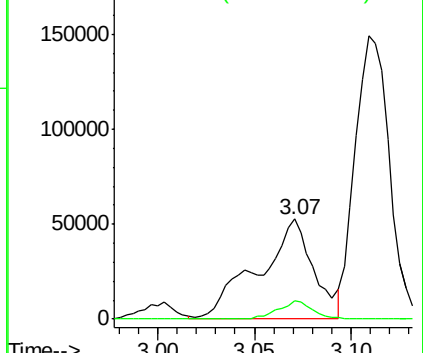
51 100

67 11.3 13.2 19.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.258 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032189.D

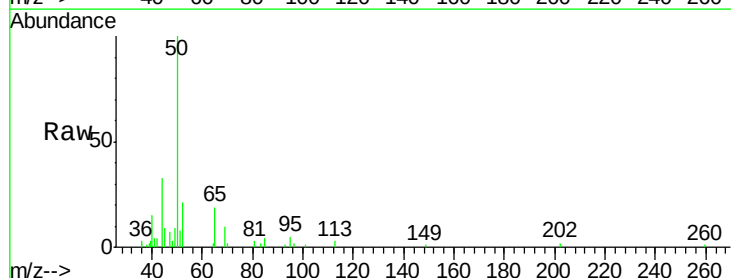
Acq: 2 Jul 2018 19:49

Tgt Ion: 50 Resp: 23076

Ion Ratio Lower Upper

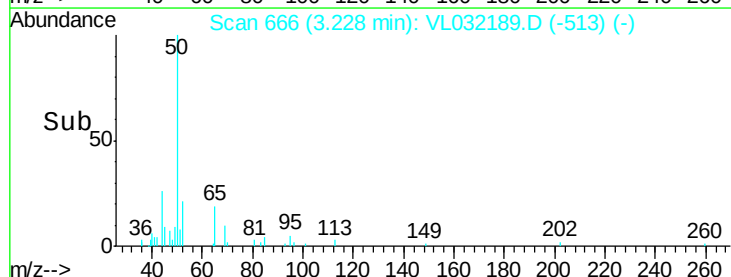
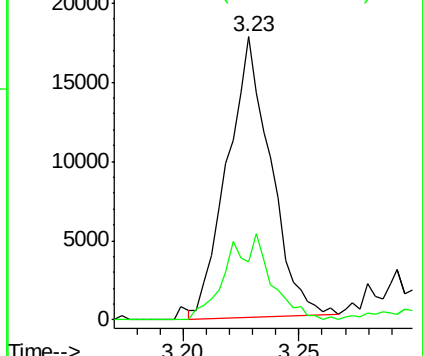
50 100

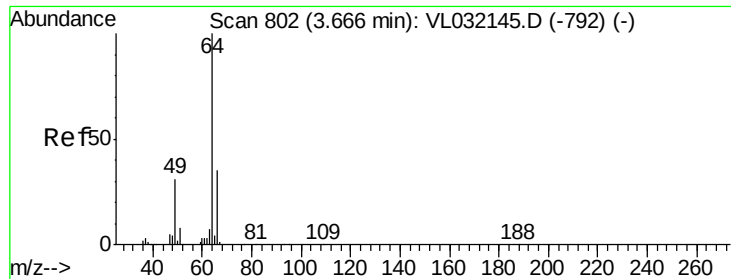
52 21.0 26.0 39.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 3.830 ppbv

RT: 3.67 min Scan# 802

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

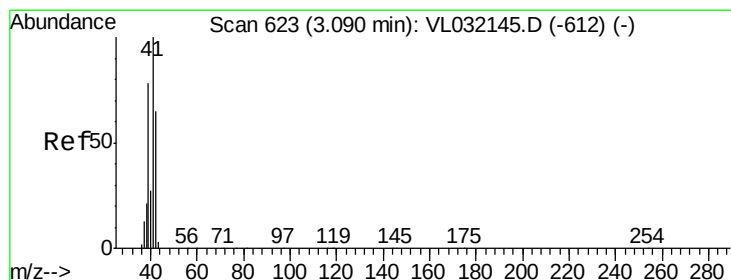
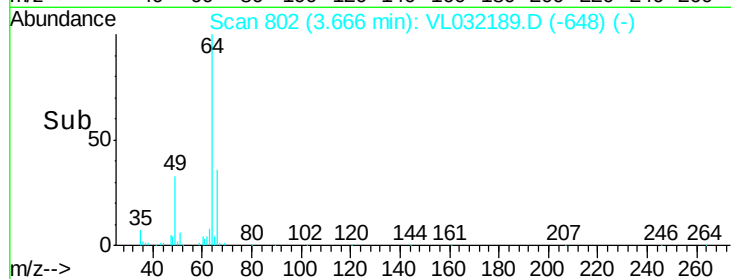
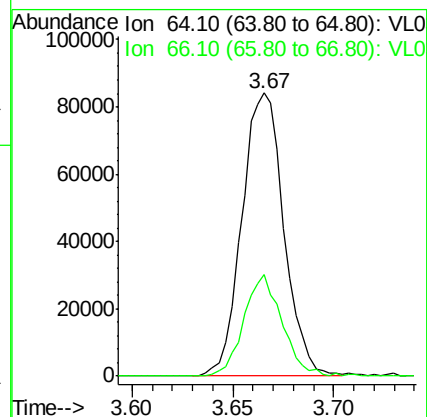
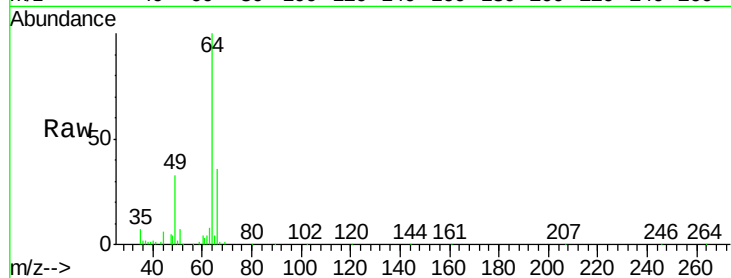
INFLUENT

Tgt Ion: 64 Resp: 122541

Ion Ratio Lower Upper

64 100

66 35.9 26.9 40.3



#9

Propene

Concen: 1.935 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032189.D

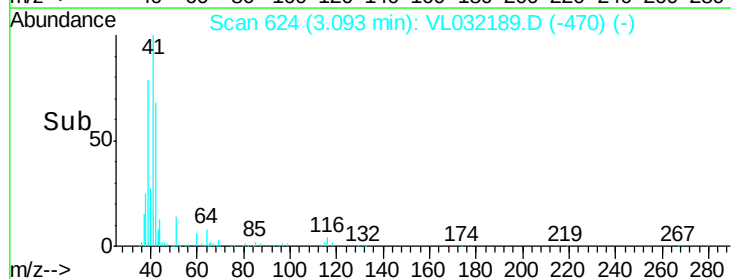
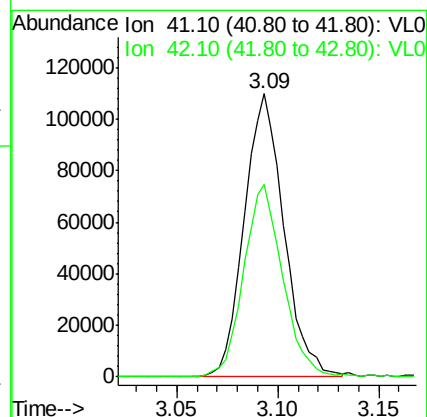
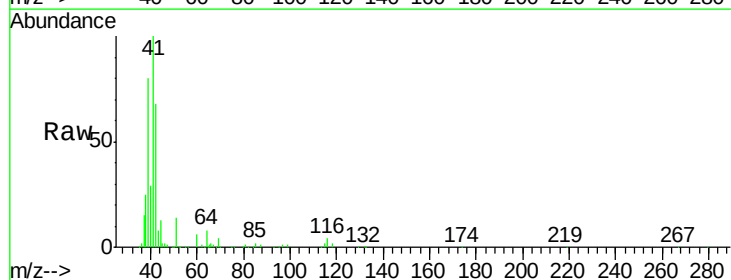
Acq: 2 Jul 2018 19:49

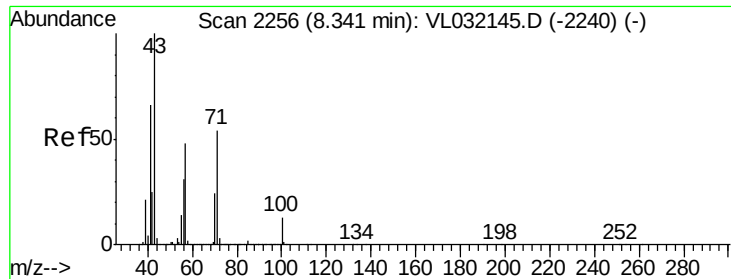
Tgt Ion: 41 Resp: 151323

Ion Ratio Lower Upper

41 100

42 67.3 56.2 84.4





#10

Heptane

Concen: 1.310 ppbv

RT: 8.34 min Scan# 2257

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

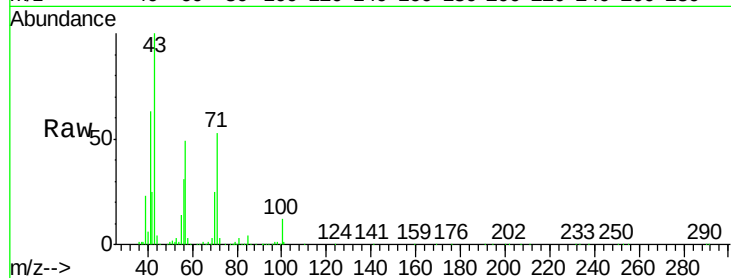
INFLUENT

Tgt Ion: 43 Resp: 298769

Ion Ratio Lower Upper

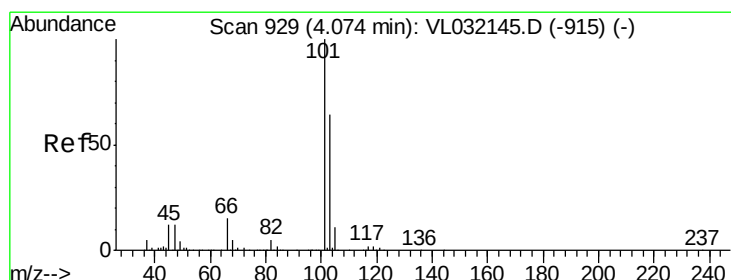
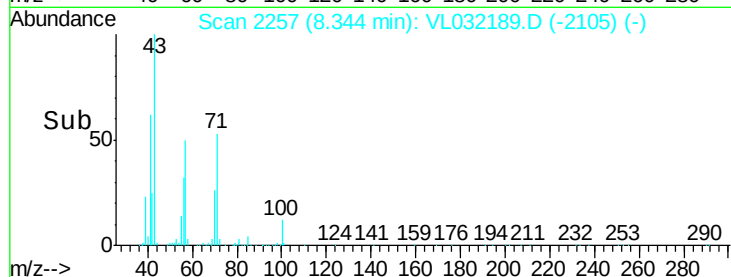
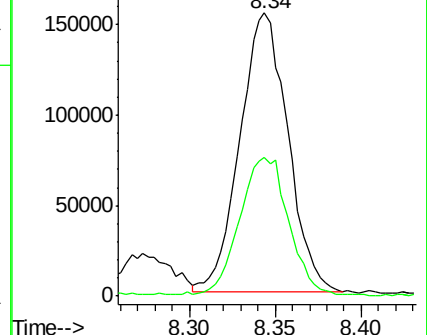
43 100

57 51.3 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.541 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032189.D

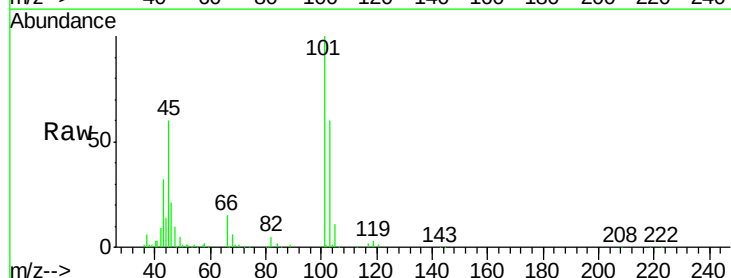
Acq: 2 Jul 2018 19:49

Tgt Ion: 101 Resp: 105932

Ion Ratio Lower Upper

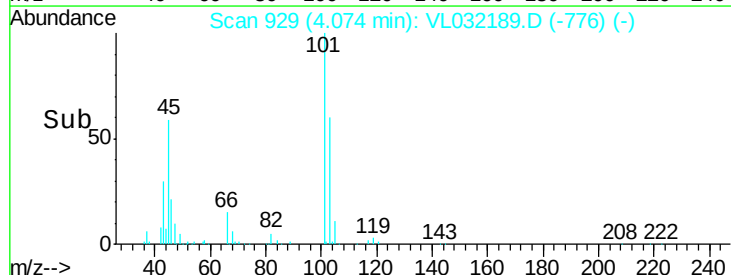
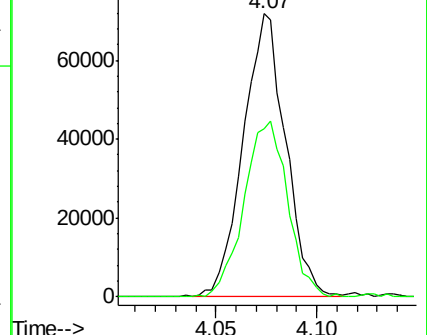
101 100

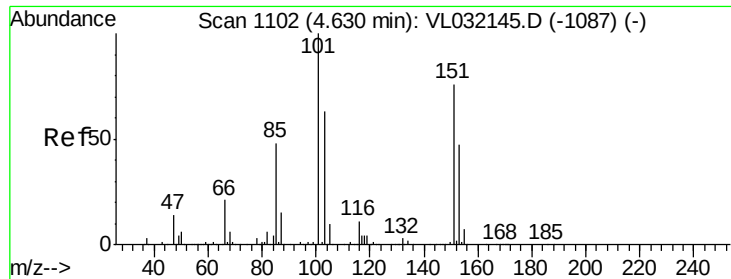
103 59.6 51.4 77.0



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: 2.460 ppbv

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

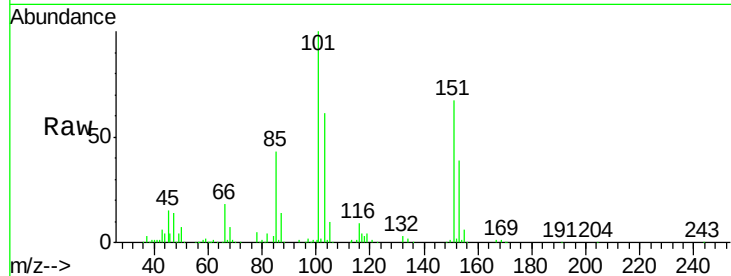
INFLUENT

Tgt Ion:101 Resp: 320541

Ion Ratio Lower Upper

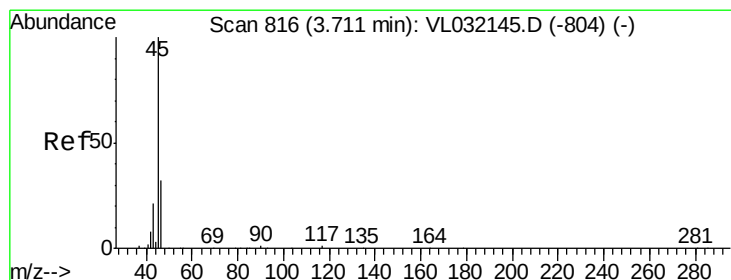
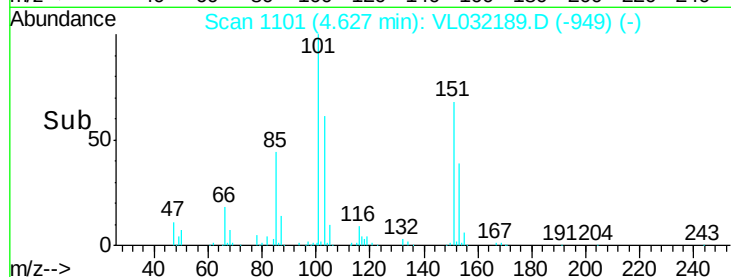
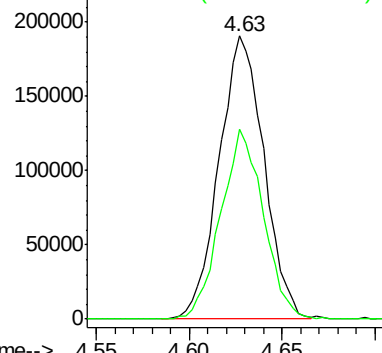
101 100

151 64.0 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 467.900 ppbv

RT: 3.75 min Scan# 828

Delta R.T. 0.03 min

Lab File: VL032189.D

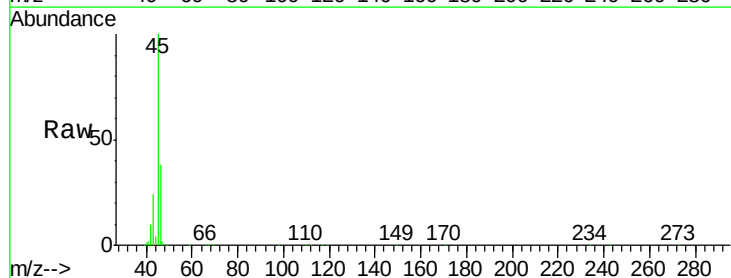
Acq: 2 Jul 2018 19:49

Tgt Ion: 45 Resp:11093397

Ion Ratio Lower Upper

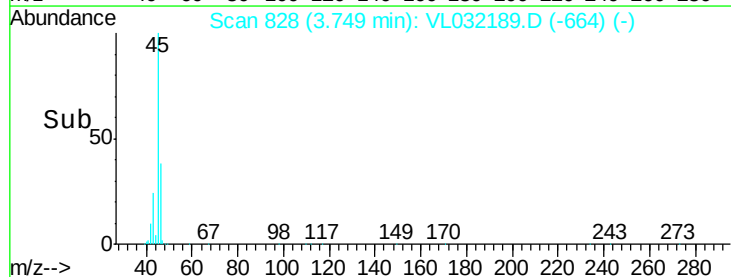
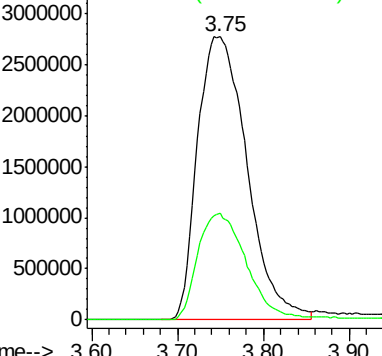
45 100

46 37.5 14.6 58.4

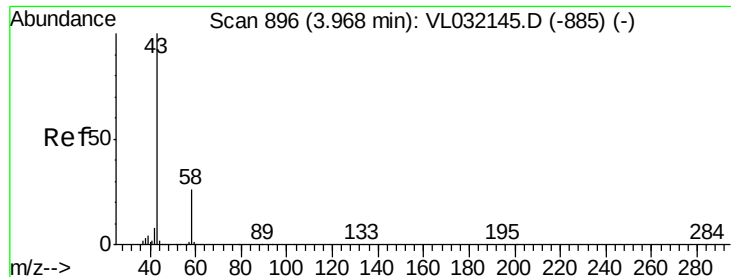


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0







#15

Acetone

Concen: 46.450 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032189.D

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MSVOA\_L

ClientSampleId :

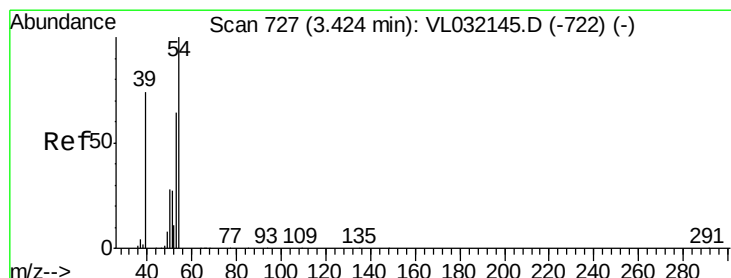
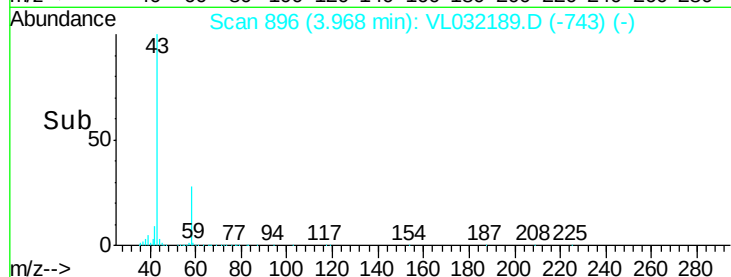
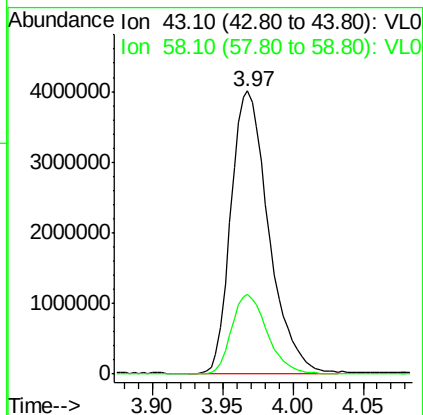
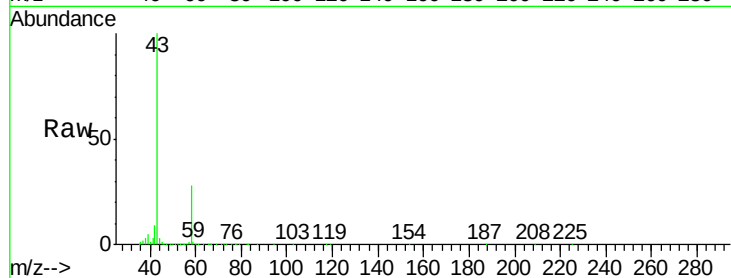
INFLUENT

Tgt Ion: 43 Resp: 7459119

Ion Ratio Lower Upper

43 100

58 26.9 21.4 32.0



#16

1,3-Butadiene

Concen: 1.855 ppbv

RT: 3.40 min Scan# 720

Delta R.T. -0.03 min

Lab File: VL032189.D

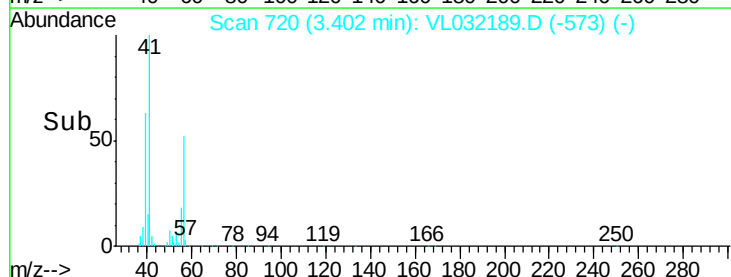
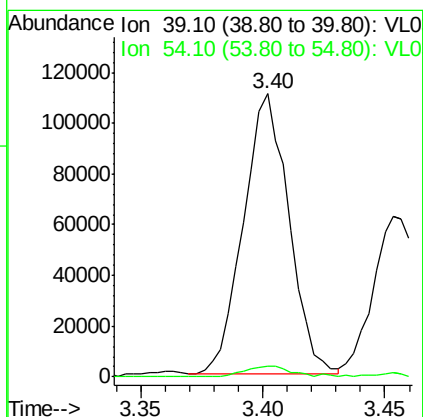
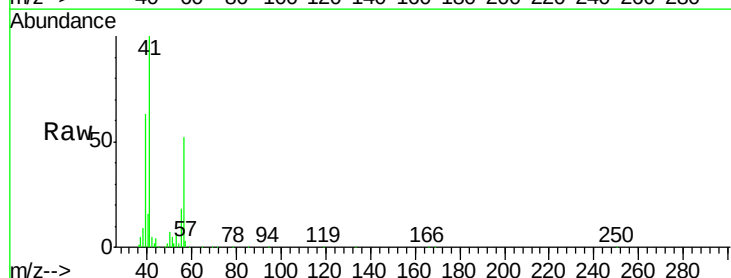
Acq: 2 Jul 2018 19:49

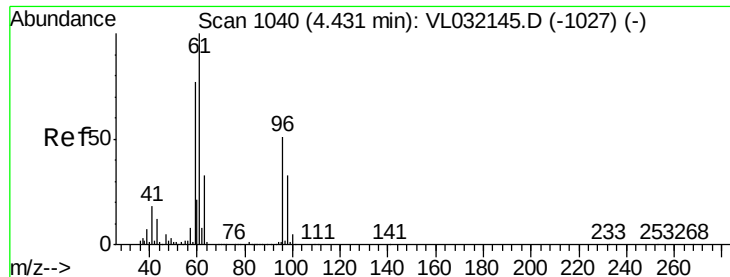
Tgt Ion: 39 Resp: 142183

Ion Ratio Lower Upper

39 100

54 4.4 75.8 113.6#

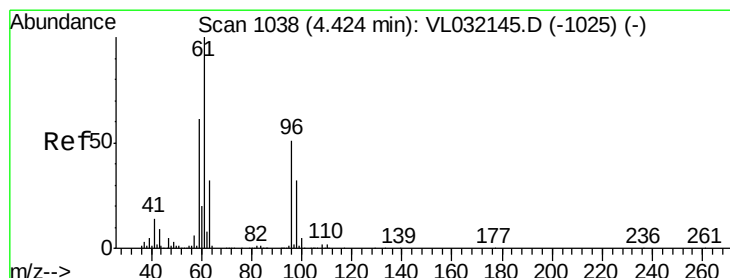
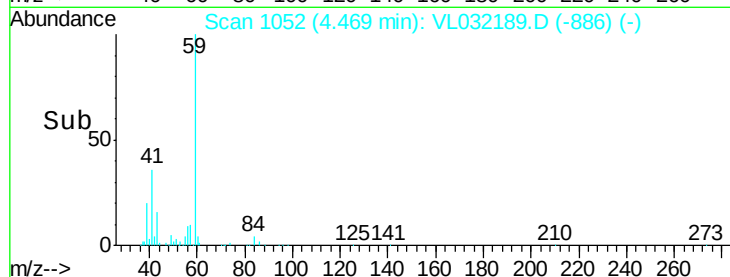
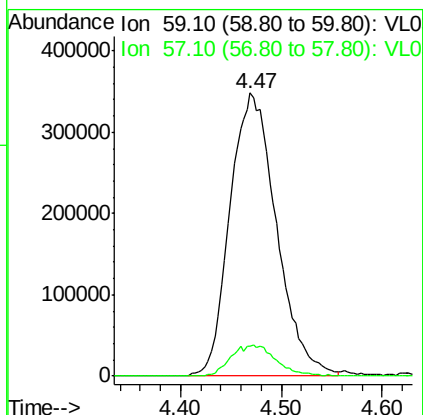
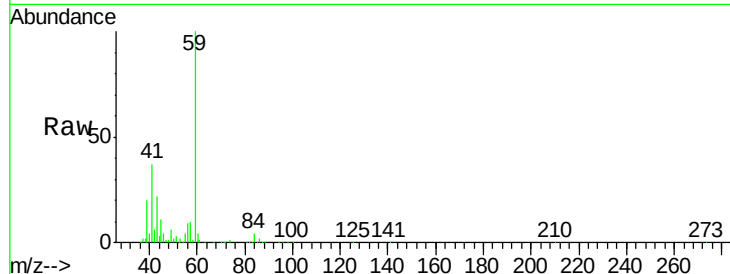




#17  
 tert-Butyl alcohol  
 Concen: 10.861 ppbv  
 RT: 4.47 min Scan# 1052  
 Delta R.T. 0.03 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

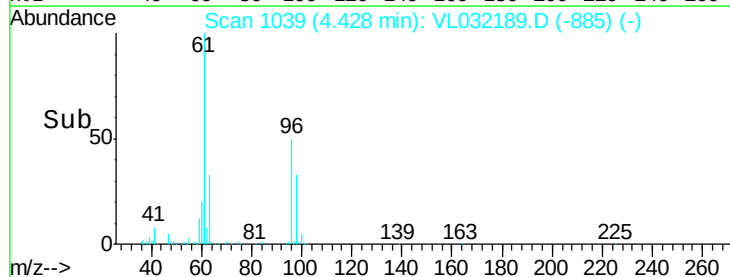
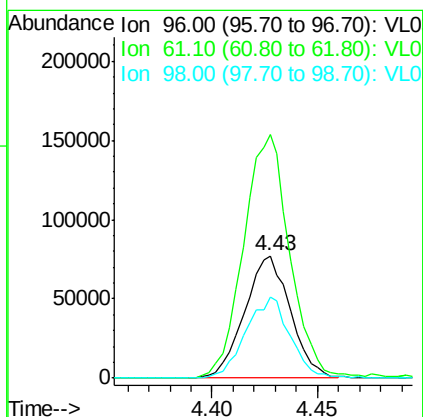
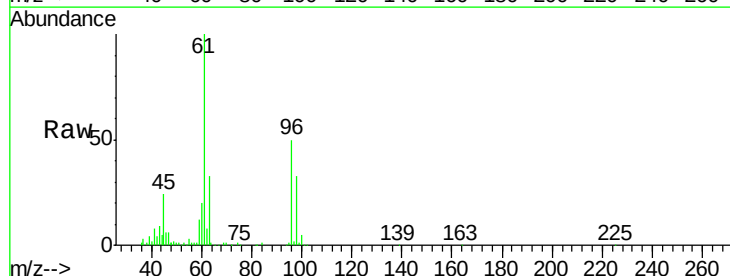
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

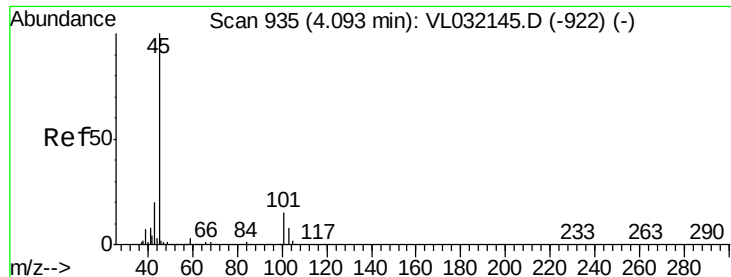
Tgt Ion: 59 Resp: 1110509  
 Ion Ratio Lower Upper  
 59 100  
 57 11.0 8.2 12.2



#18  
 1,1-Dichloroethene  
 Concen: 1.861 ppbv  
 RT: 4.43 min Scan# 1039  
 Delta R.T. -0.01 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

Tgt Ion: 96 Resp: 116009  
 Ion Ratio Lower Upper  
 96 100  
 61 198.1 154.1 231.1  
 98 66.0 50.3 75.5



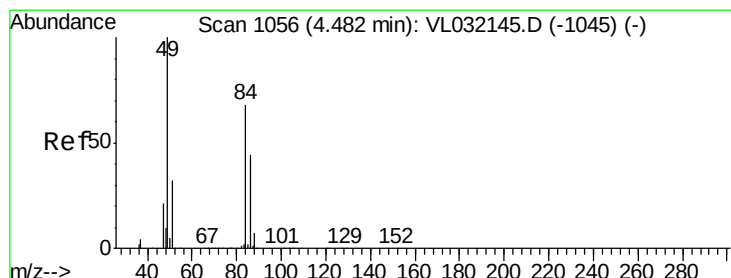
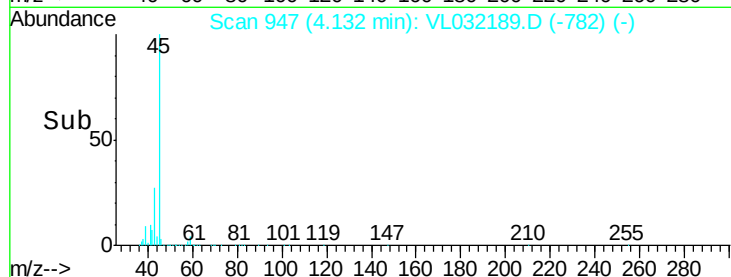
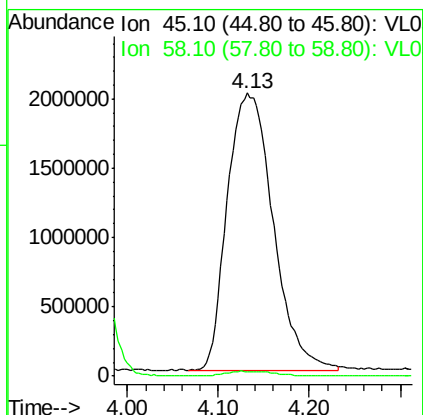
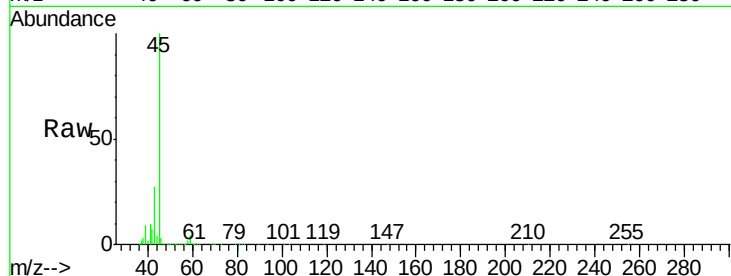


#19

Isopropyl Alcohol  
 Concen: 52.826 ppbv  
 RT: 4.13 min Scan# 947  
 Delta R.T. 0.03 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

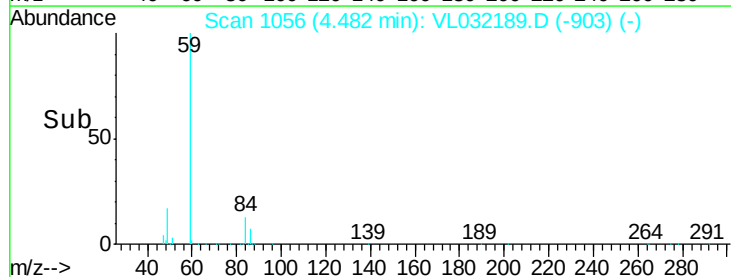
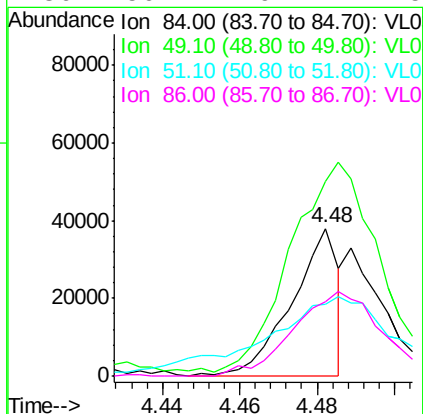
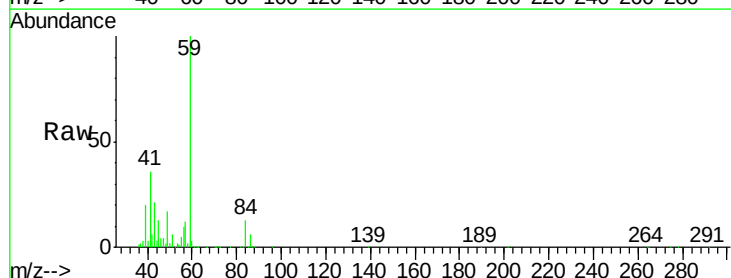
Tgt Ion: 45 Resp: 7048237  
 Ion Ratio Lower Upper  
 45 100  
 58 1.8 29.4 44.0#

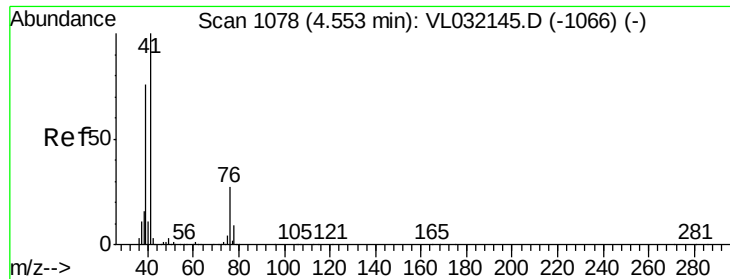


#20

Methylene Chloride  
 Concen: 0.540 ppbv  
 RT: 4.48 min Scan# 1056  
 Delta R.T. -0.01 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

Tgt Ion: 84 Resp: 31669  
 Ion Ratio Lower Upper  
 84 100  
 49 128.3 119.6 179.4  
 51 36.4 36.3 54.5  
 86 50.4 49.7 74.5

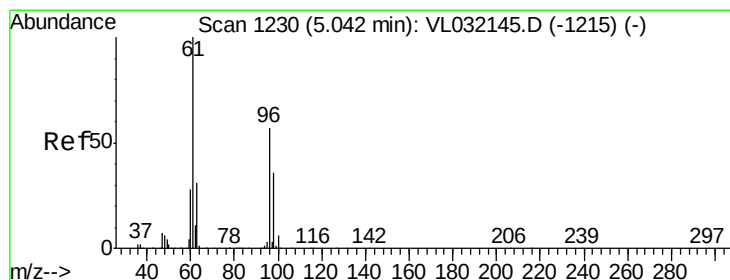
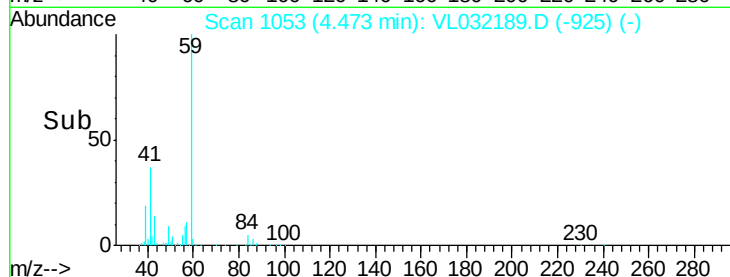
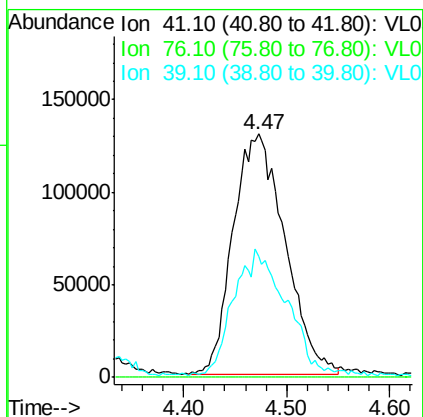
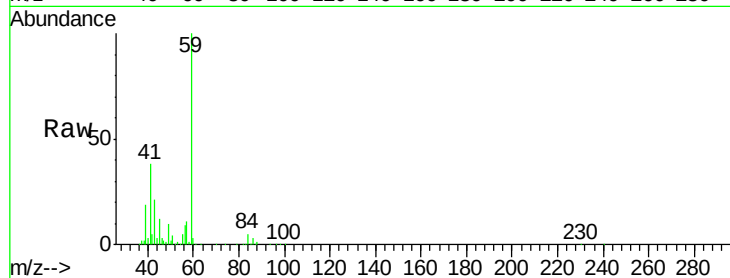




#21  
 Allyl Chloride  
 Concen: 4.141 ppbv  
 RT: 4.47 min Scan# 1053  
 Delta R.T. -0.09 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

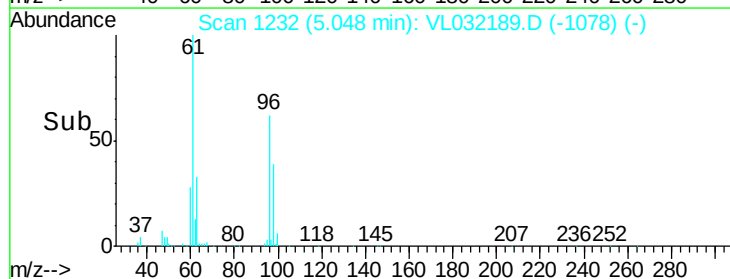
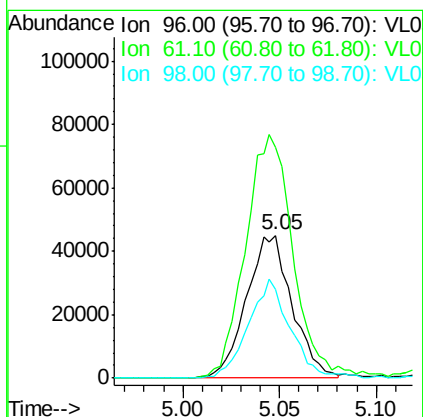
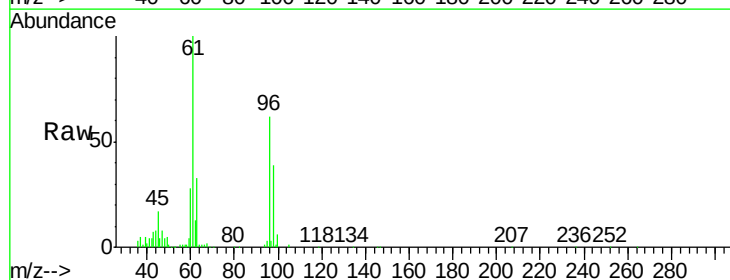
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

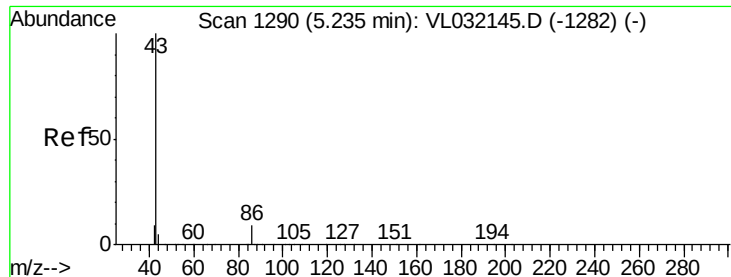
Tgt Ion: 41 Resp: 454045  
 Ion Ratio Lower Upper  
 41 100  
 76 0.0 22.5 33.7#  
 39 55.3 60.5 90.7#



#22  
 trans-1,2-Dichloroethene  
 Concen: 1.137 ppbv  
 RT: 5.05 min Scan# 1232  
 Delta R.T. -0.01 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

Tgt Ion: 96 Resp: 74068  
 Ion Ratio Lower Upper  
 96 100  
 61 160.7 135.2 202.8  
 98 62.3 49.7 74.5





#23

Vinyl Acetate

Concen: 2.130 ppbv

RT: 5.23 min Scan# 1288

Delta R.T. -0.02 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

INFLUENT

Tgt Ion: 43 Resp: 620363

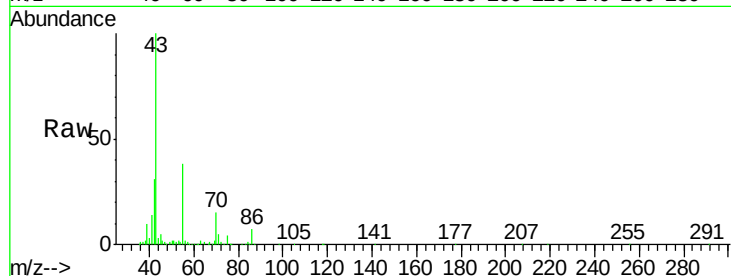
Ion Ratio Lower Upper

43 100

86 6.4 6.2 9.4

42 30.4 6.9 10.3#

44 1.1 3.8 5.8#

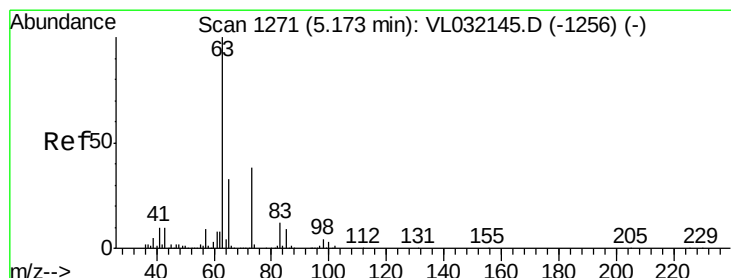
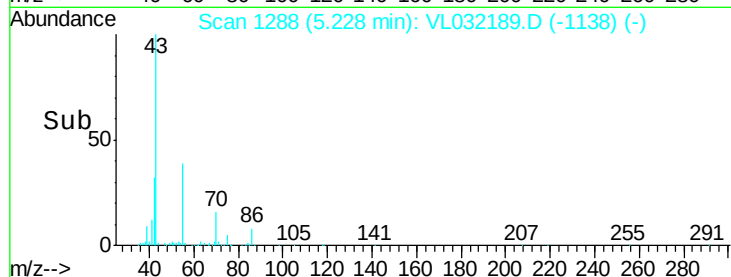
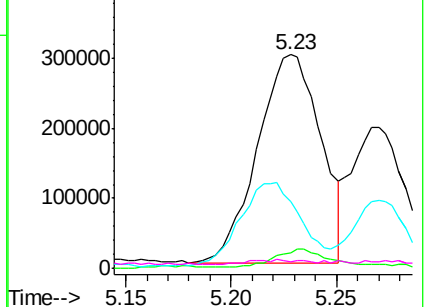


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 19.296 ppbv

RT: 5.17 min Scan# 1271

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

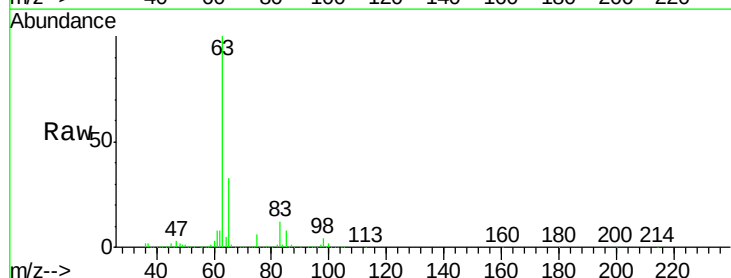
Tgt Ion: 63 Resp: 3599758

Ion Ratio Lower Upper

63 100

98 4.4 2.4 7.2

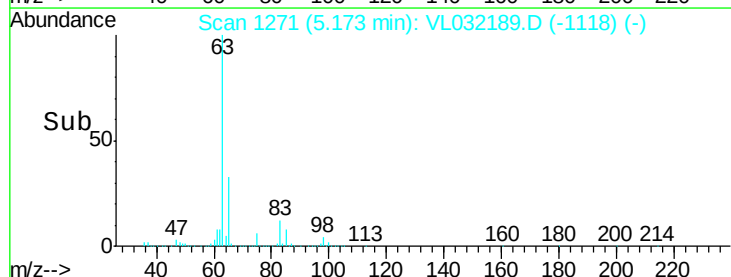
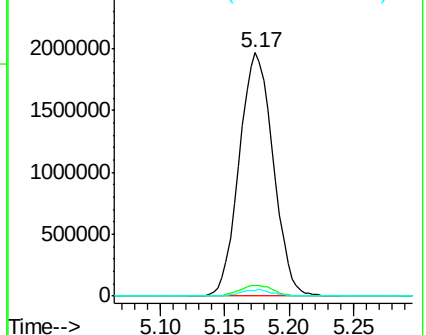
100 2.5 1.7 5.0

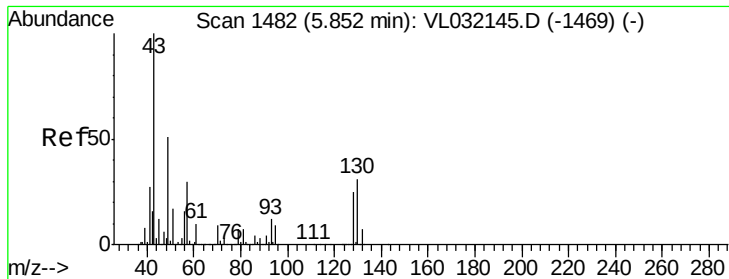


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

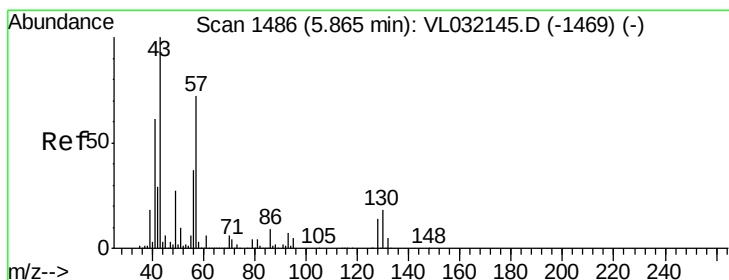
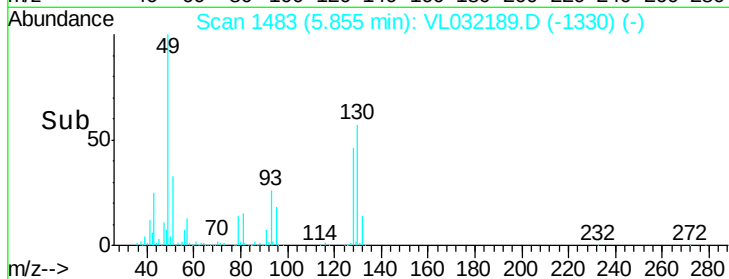
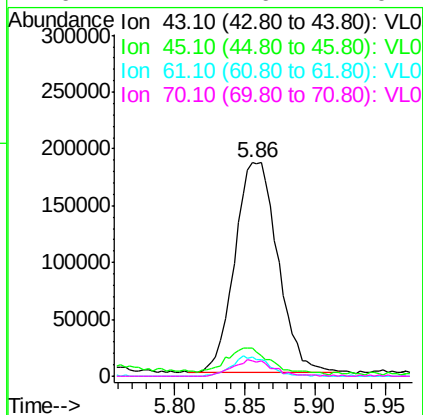
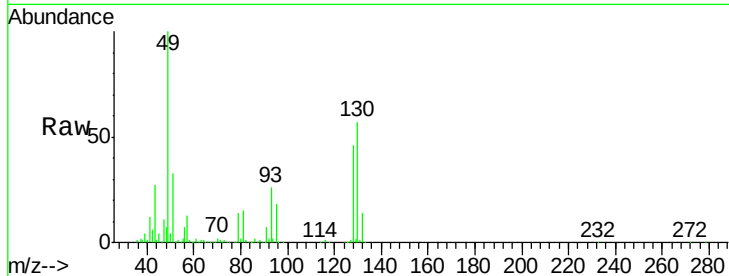




#25  
Ethyl Acetate  
Concen: 1.188 ppbv  
RT: 5.86 min Scan# 1483  
Delta R.T. -0.01 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

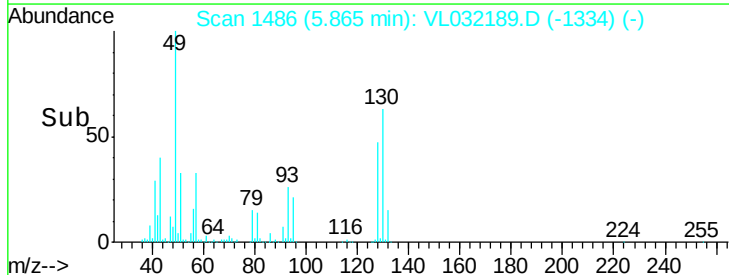
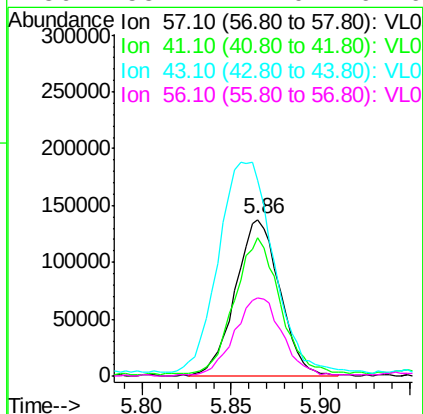
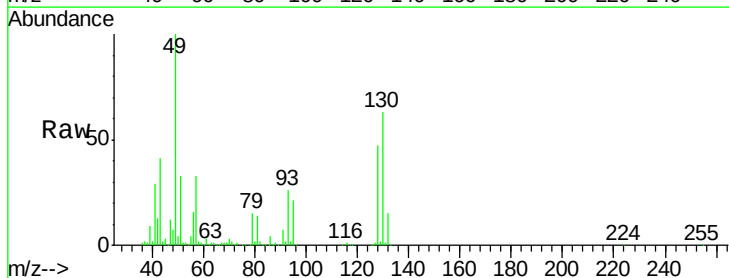
Instrument :  
MSVOA\_L  
ClientSampleId :  
INFLUENT

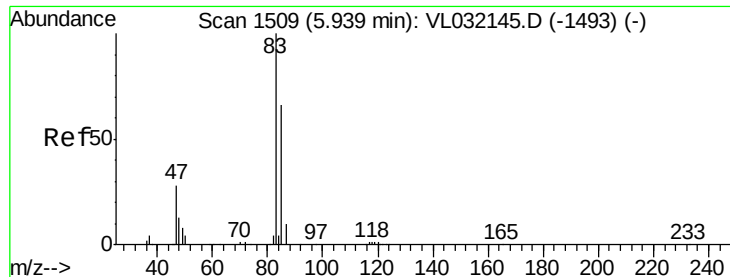
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 394695 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 14.0  | 7.8   | 11.8#  |
| 61       | 8.6   | 7.4   | 11.0   |
| 70       | 7.4   | 6.1   | 9.1    |



#26  
Hexane  
Concen: 1.545 ppbv  
RT: 5.86 min Scan# 1486  
Delta R.T. -0.01 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 236361 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 90.4  | 68.6  | 103.0  |
| 43       | 168.8 | 168.6 | 252.8  |
| 56       | 55.2  | 41.0  | 61.6   |

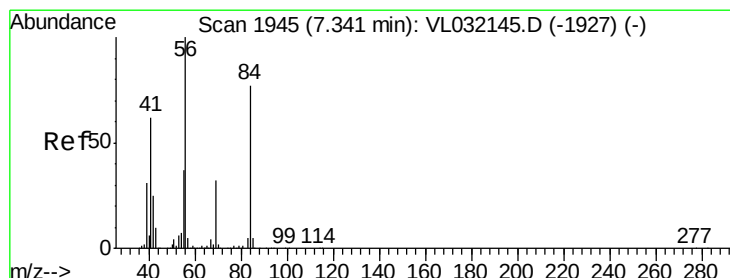
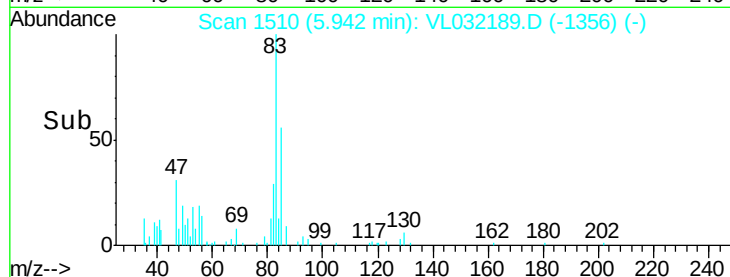
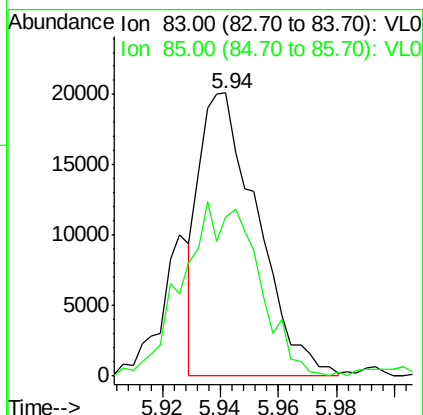
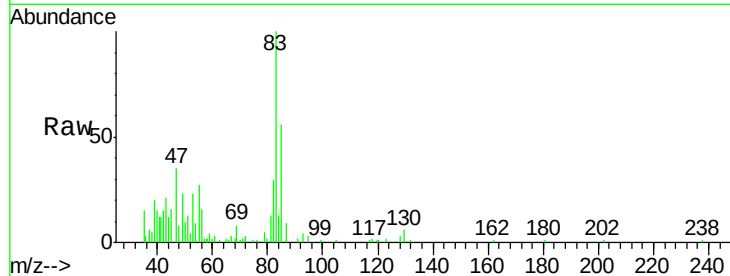




#29  
Chloroform  
Concen: 0.126 ppbv  
RT: 5.94 min Scan# 1510  
Delta R.T. -0.01 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

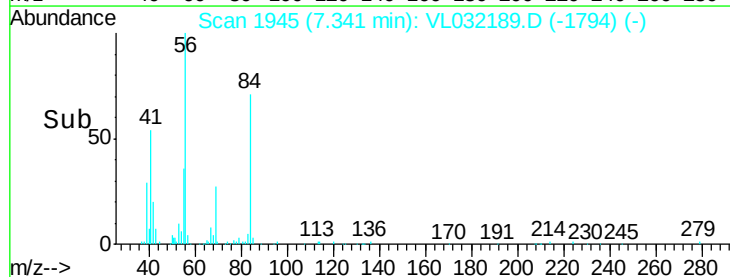
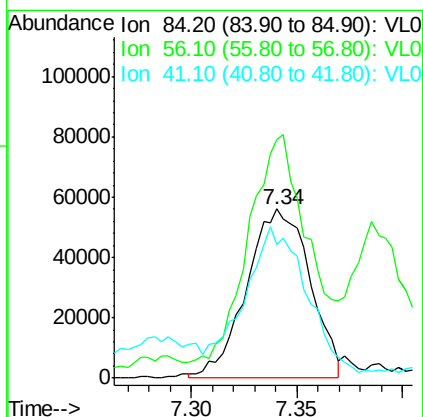
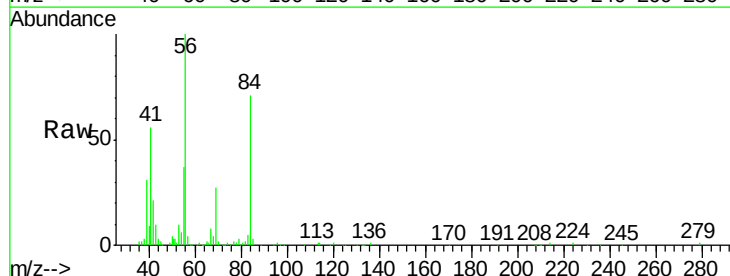
Instrument :  
MSVOA\_L  
ClientSampleId :  
INFLUENT

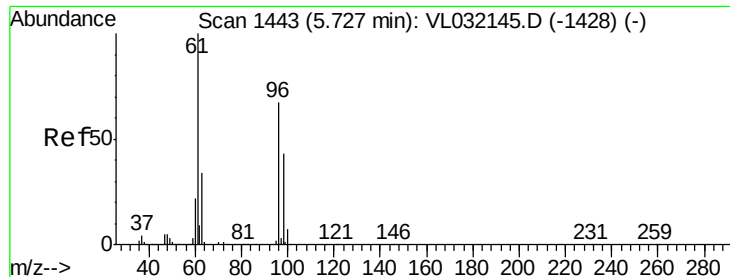
Tgt Ion: 83 Resp: 27958  
Ion Ratio Lower Upper  
83 100  
85 55.6 51.6 77.4



#30  
Cyclohexane  
Concen: 0.806 ppbv  
RT: 7.34 min Scan# 1945  
Delta R.T. -0.02 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

Tgt Ion: 84 Resp: 116279  
Ion Ratio Lower Upper  
84 100  
56 150.9 109.1 163.7  
41 89.3 64.6 96.8





#31

cis-1,2-Dichloroethene

Concen: 0.156 ppbv

RT: 5.73 min Scan# 1444

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampled :

INFLUENT

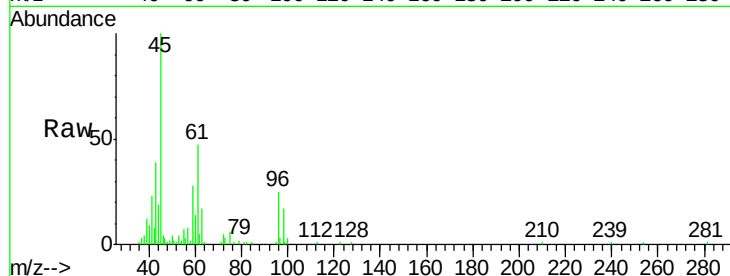
Tgt Ion: 61 Resp: 23846

Ion Ratio Lower Upper

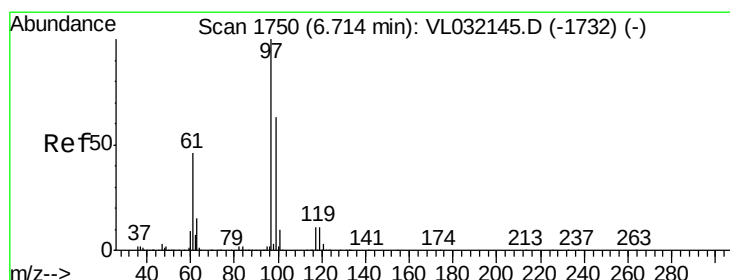
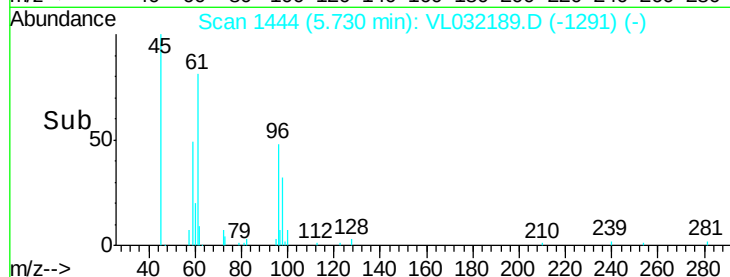
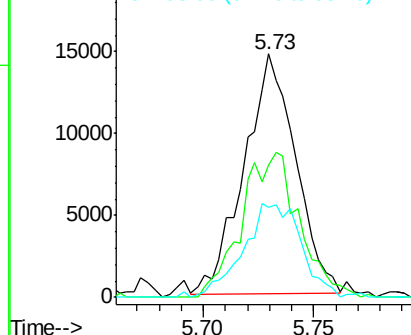
61 100

96 55.1 54.2 81.4

98 37.4 34.6 52.0



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: 50.927 ppbv

RT: 6.71 min Scan# 1750

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

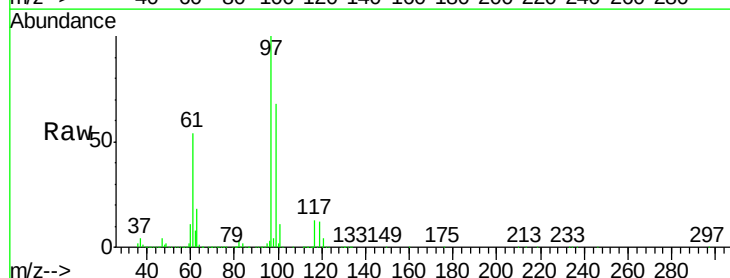
Tgt Ion: 97 Resp: 11889235

Ion Ratio Lower Upper

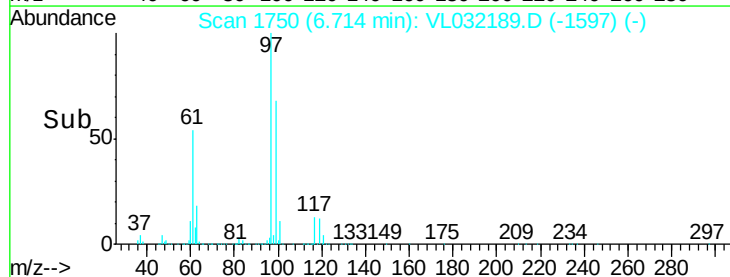
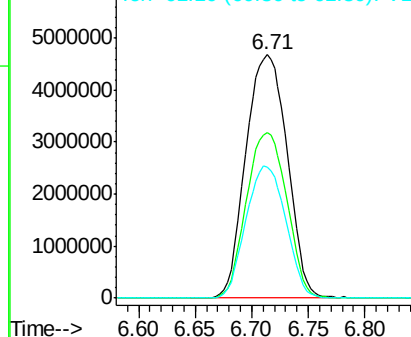
97 100

99 66.8 51.3 76.9

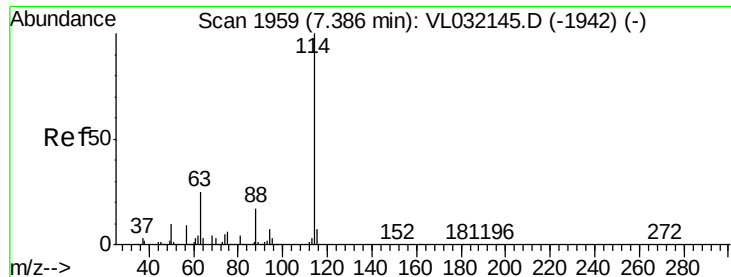
61 52.6 38.4 57.6



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: 7.39 min Scan# 1960

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

INFLUENT

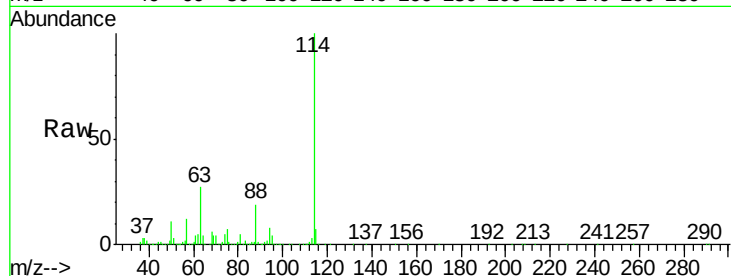
Tgt Ion:114 Resp: 3944114

Ion Ratio Lower Upper

114 100

63 27.5 19.1 28.7

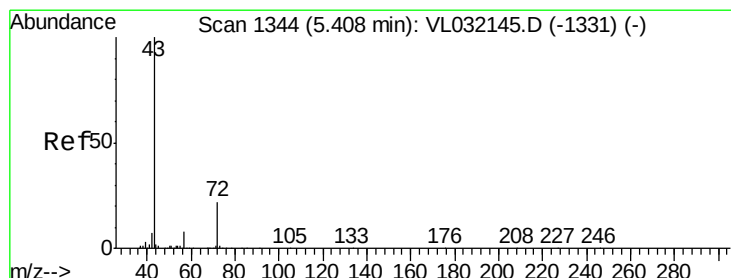
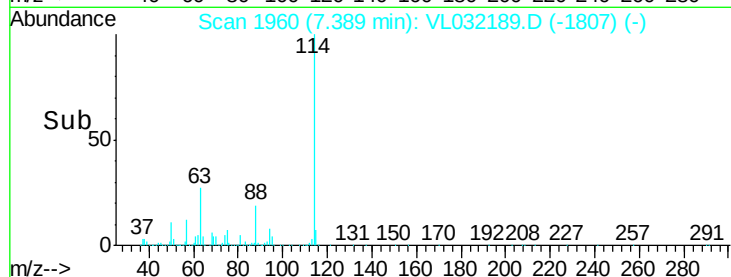
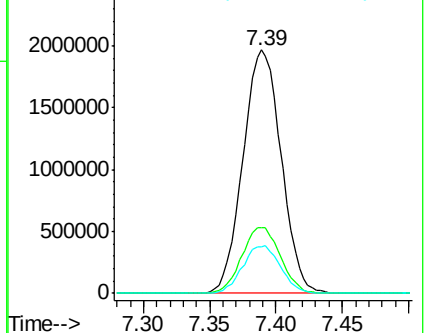
88 19.5 13.9 20.9



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 6.324 ppbv

RT: 5.41 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VL032189.D

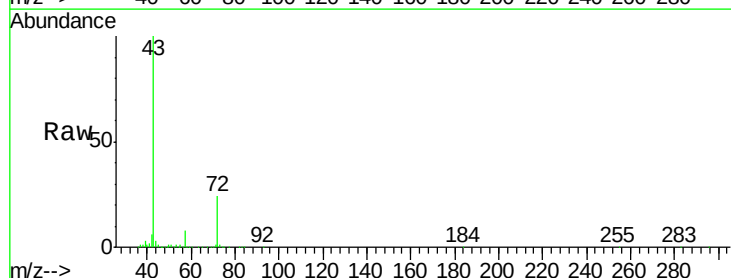
Acq: 2 Jul 2018 19:49

Tgt Ion: 43 Resp: 1583107

Ion Ratio Lower Upper

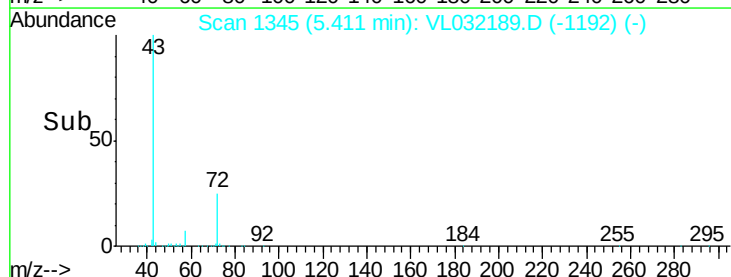
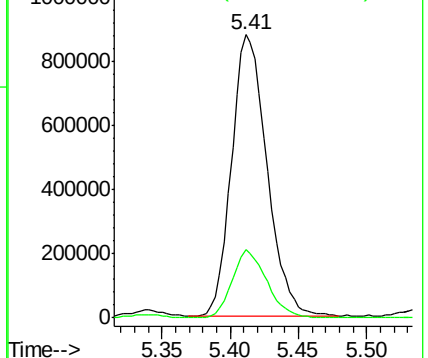
43 100

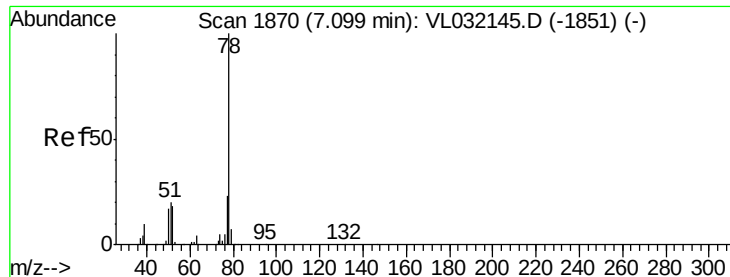
72 23.6 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.676 ppbv

RT: 7.10 min Scan# 1870

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

INFLUENT

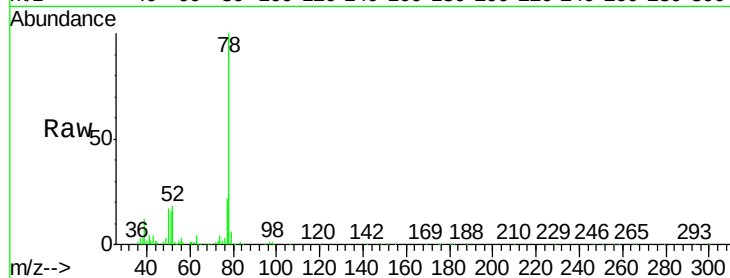
Tgt Ion: 78 Resp: 258090

Ion Ratio Lower Upper

78 100

77 21.8 17.7 26.5

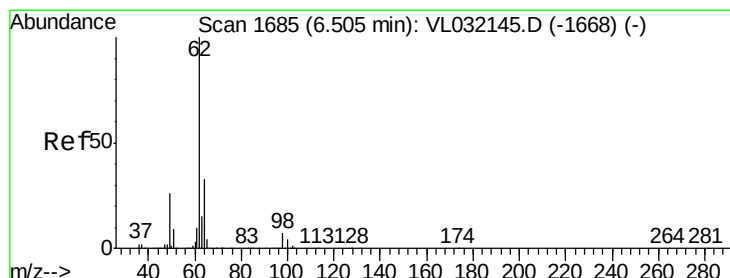
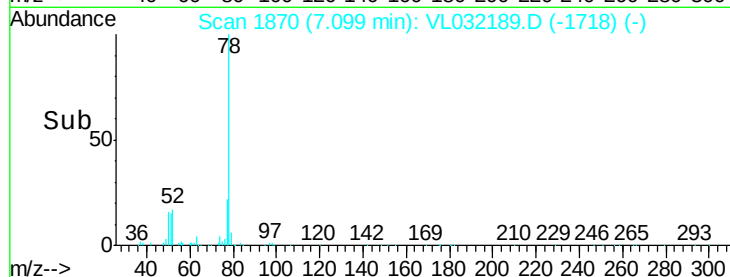
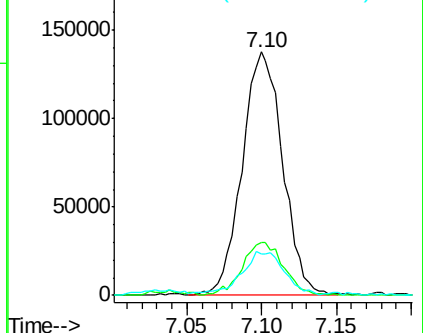
50 16.0 14.0 21.0



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 0.051 ppbv

RT: 6.51 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VL032189.D

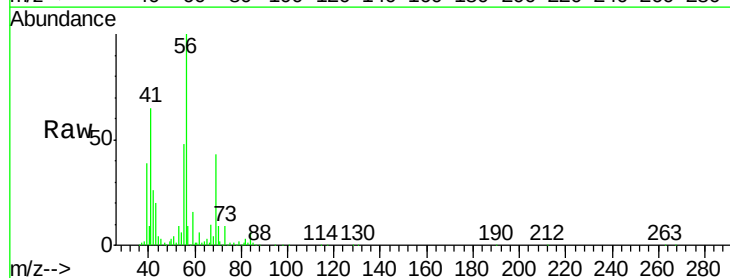
Acq: 2 Jul 2018 19:49

Tgt Ion: 62 Resp: 9736

Ion Ratio Lower Upper

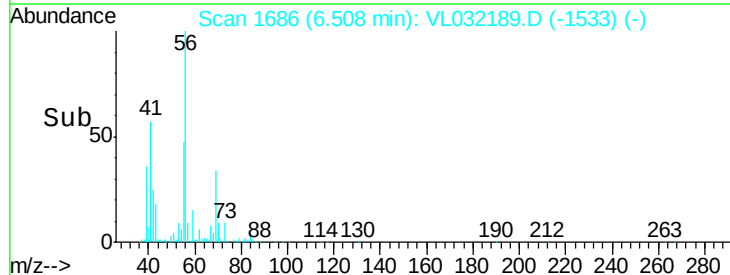
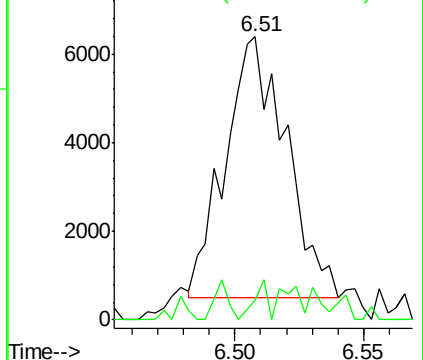
62 100

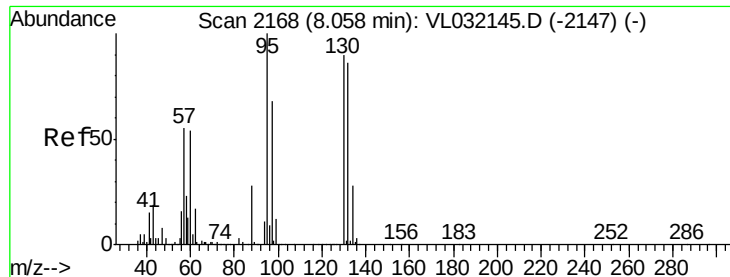
98 0.0 5.8 8.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.105 ppbv

RT: 8.06 min Scan# 2170

Delta R.T. -0.01 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

INFLUENT

Tgt Ion:130 Resp: 15632

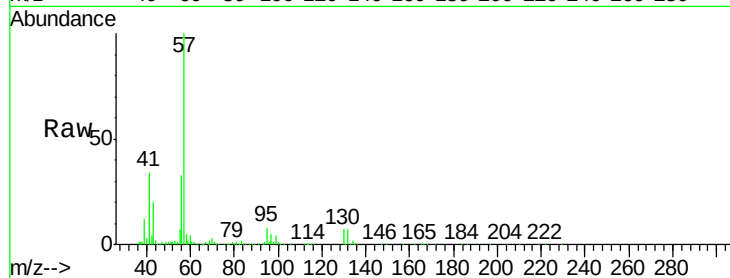
Ion Ratio Lower Upper

130 100

95 108.2 88.1 132.1

132 91.9 74.6 112.0

97 60.8 58.6 88.0

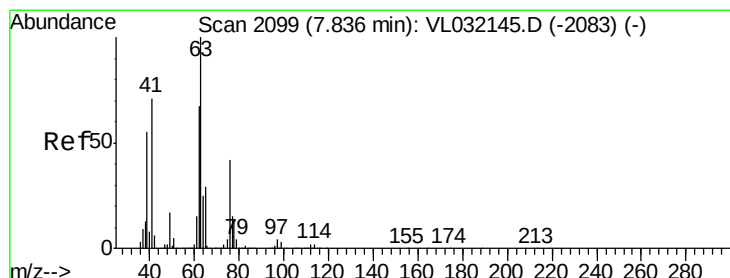
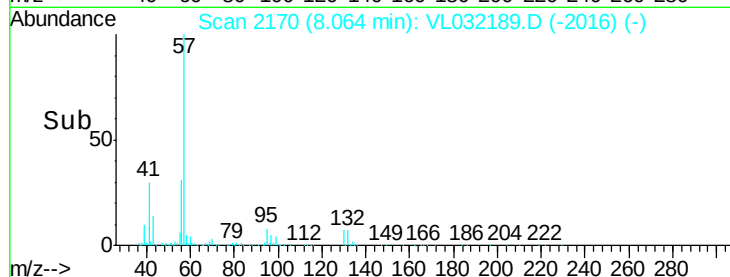
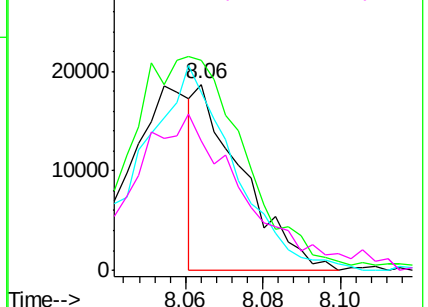


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.069 ppbv

RT: 7.39 min Scan# 1959

Delta R.T. -0.46 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

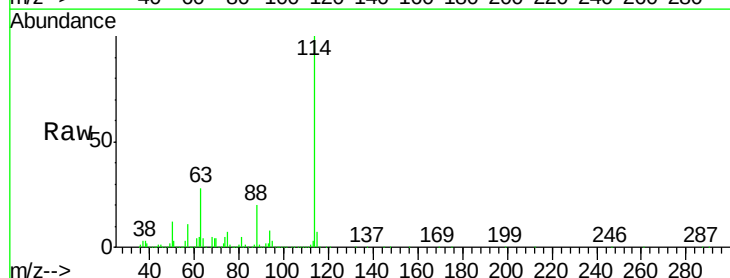
Tgt Ion: 63 Resp: 1064250

Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

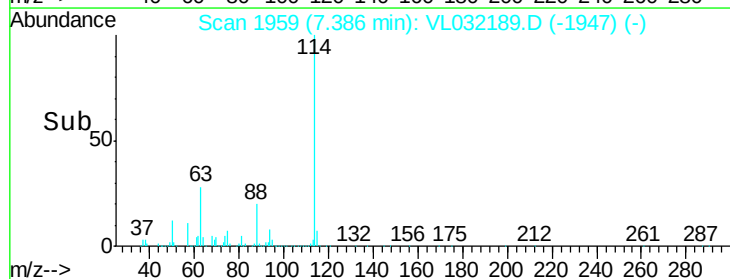
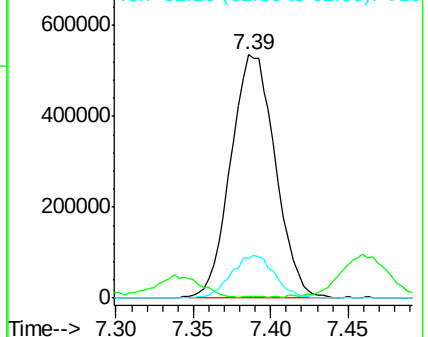
62 16.7 54.8 82.2#

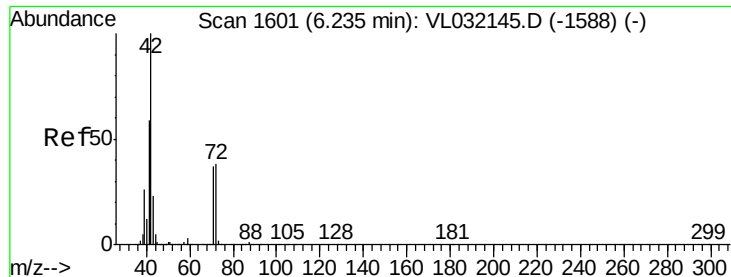


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.422 ppbv

RT: 6.24 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

INFLUENT

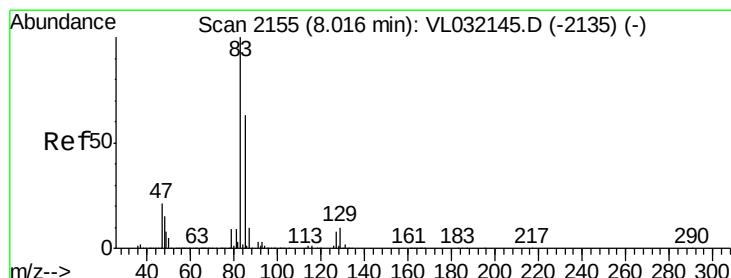
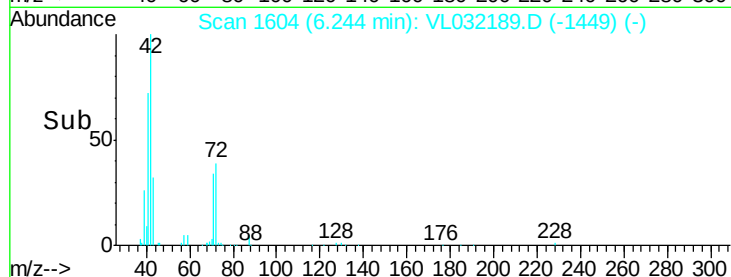
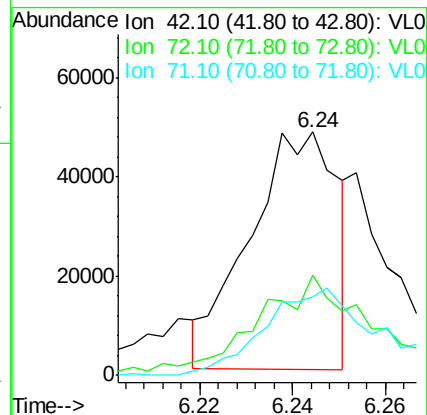
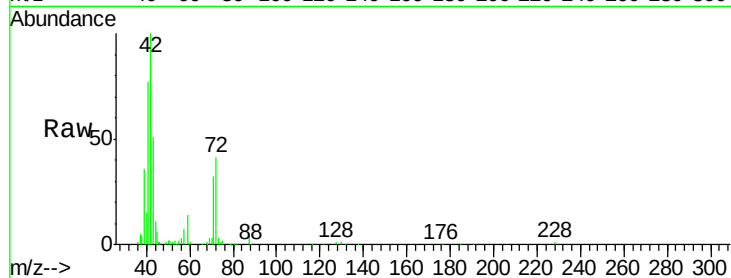
Tgt Ion: 42 Resp: 63257

Ion Ratio Lower Upper

42 100

72 58.8 31.1 46.7#

71 48.3 29.5 44.3#



#42

Bromodichloromethane

Concen: 0.046 ppbv

RT: 8.01 min Scan# 2154

Delta R.T. -0.02 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

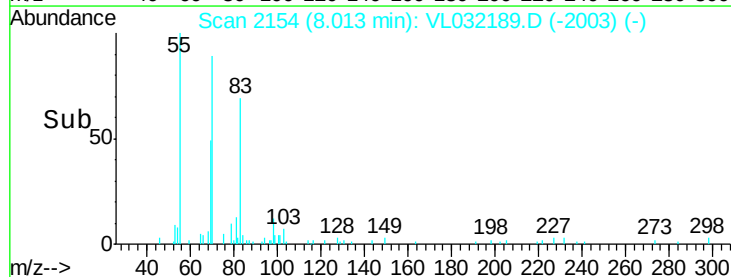
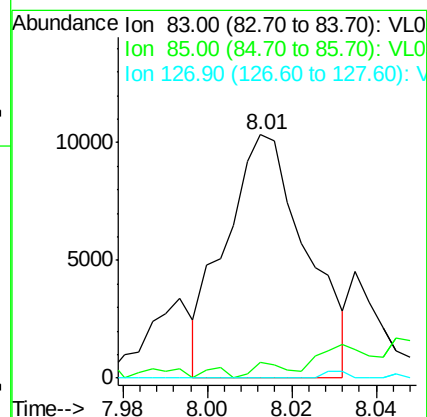
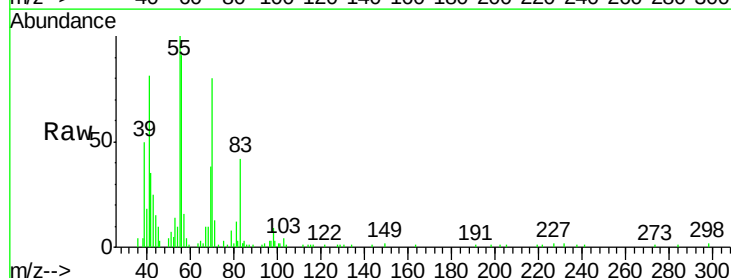
Tgt Ion: 83 Resp: 13693

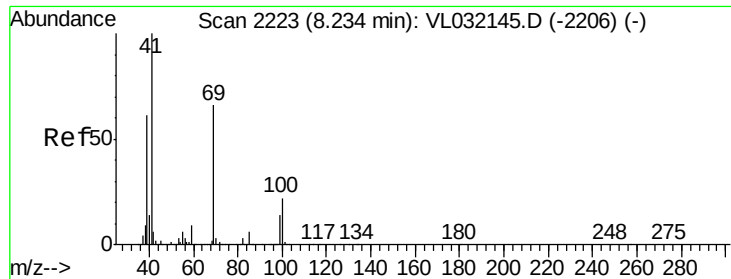
Ion Ratio Lower Upper

83 100

85 8.5 52.6 79.0#

127 0.0 6.5 9.7#

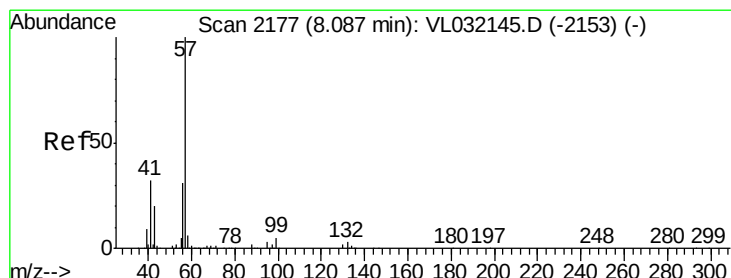
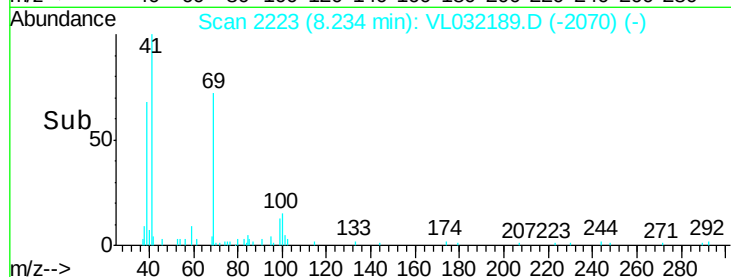
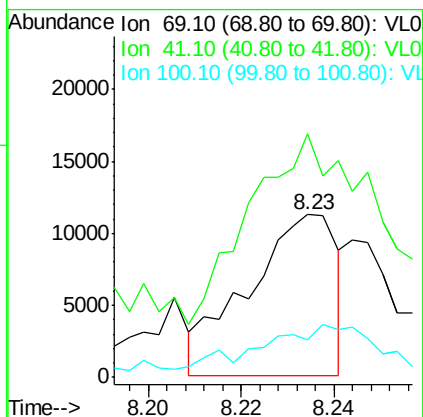
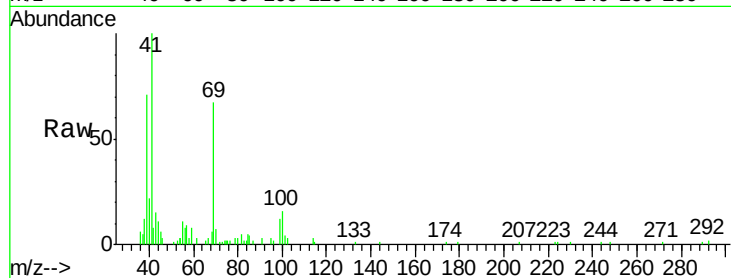




#43  
Methyl Methacrylate  
Concen: 0.094 ppbv  
RT: 8.23 min Scan# 2223  
Delta R.T. -0.01 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

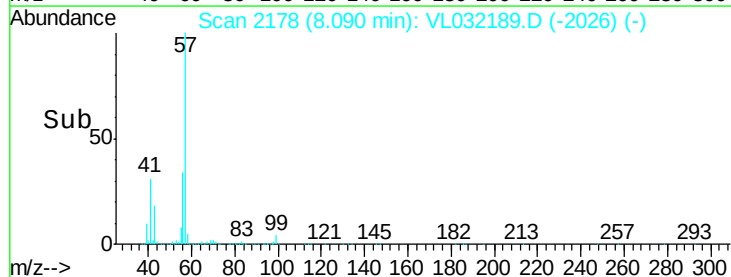
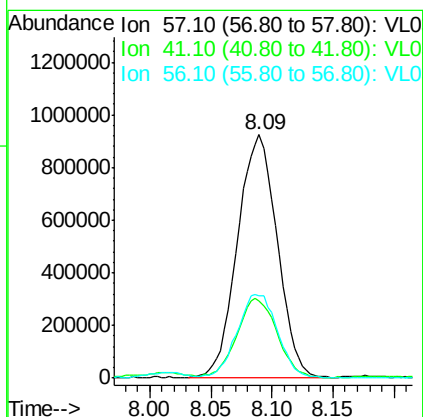
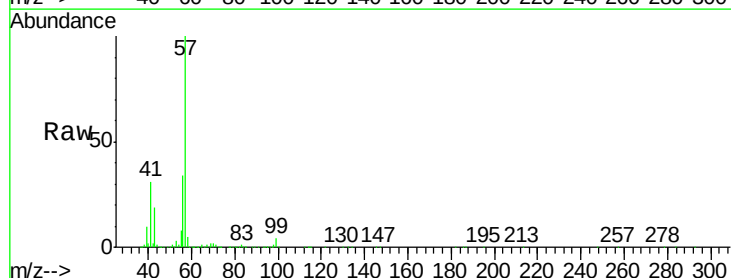
Instrument :  
MSVOA\_L  
ClientSampleId :  
INFLUENT

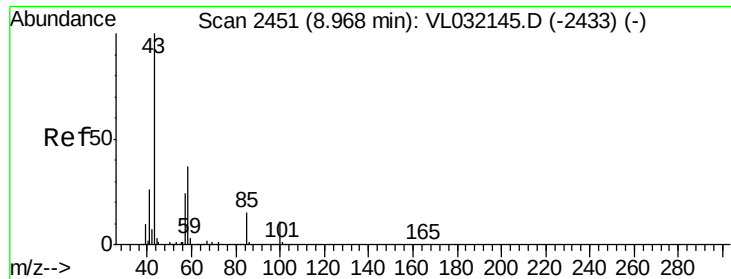
Tgt Ion: 69 Resp: 14825  
Ion Ratio Lower Upper  
69 100  
41 210.3 118.2 177.4#  
100 50.3 27.4 41.2#



#44  
2,2,4-Trimethylpentane  
Concen: 3.094 ppbv  
RT: 8.09 min Scan# 2178  
Delta R.T. -0.01 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

Tgt Ion: 57 Resp: 2066776  
Ion Ratio Lower Upper  
57 100  
41 33.5 24.3 36.5  
56 35.3 25.1 37.7

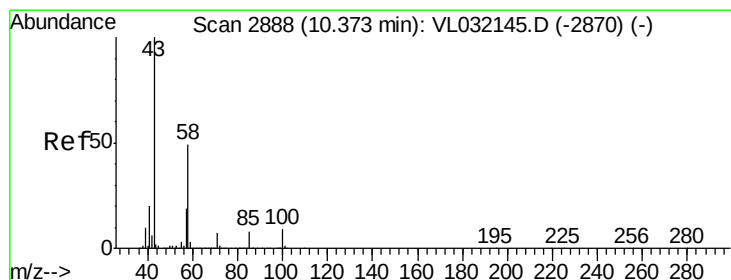
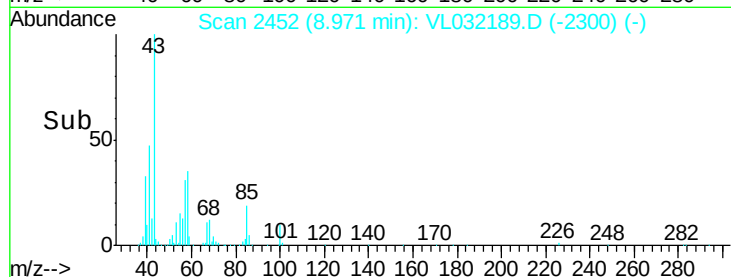
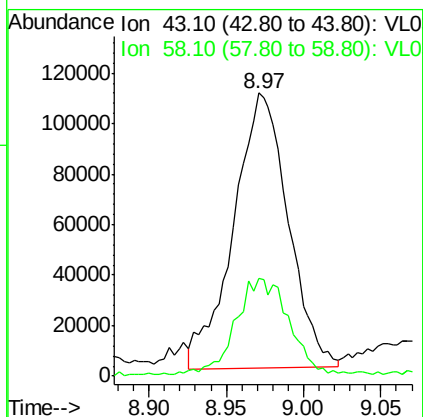
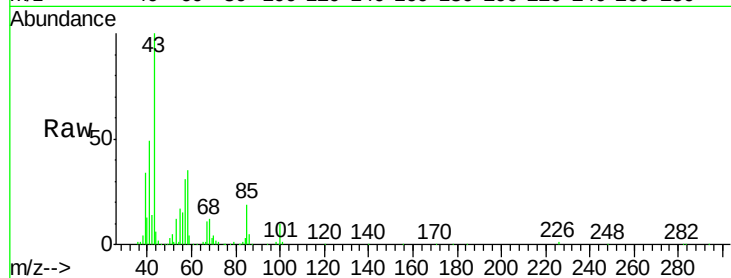




#50  
 4-Methyl-2-Pentanone  
 Concen: 0.653 ppbv  
 RT: 8.97 min Scan# 2452  
 Delta R.T. -0.01 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

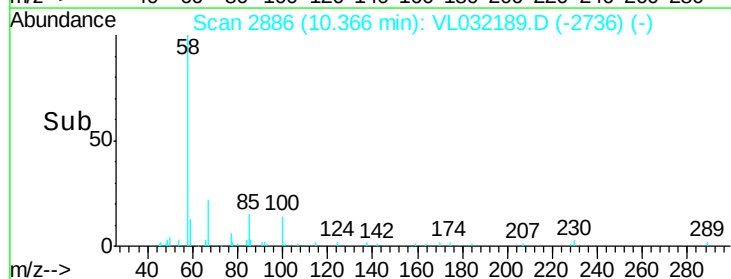
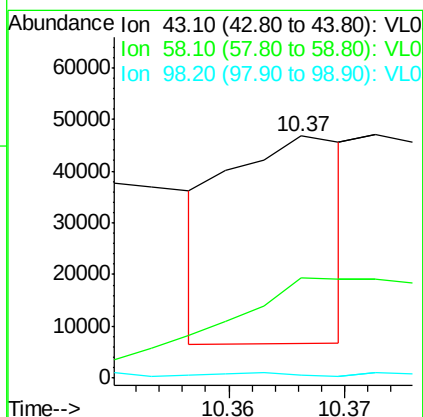
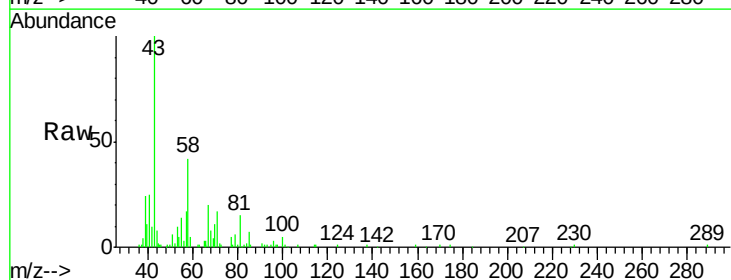
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

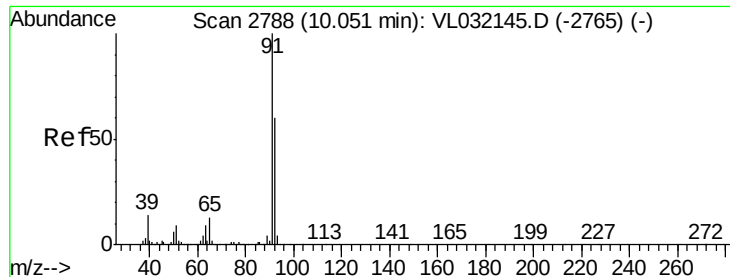
Tgt Ion: 43 Resp: 267816  
 Ion Ratio Lower Upper  
 43 100  
 58 36.4 29.8 44.6



#51  
 2-Hexanone  
 Concen: 0.084 ppbv  
 RT: 10.37 min Scan# 2886  
 Delta R.T. -0.02 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

Tgt Ion: 43 Resp: 28509  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 40.6 60.8#  
 98 5.6 0.1 0.1#





#53

Toluene

Concen: 4.925 ppbv

RT: 10.05 min Scan# 2787

Delta R.T. -0.02 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

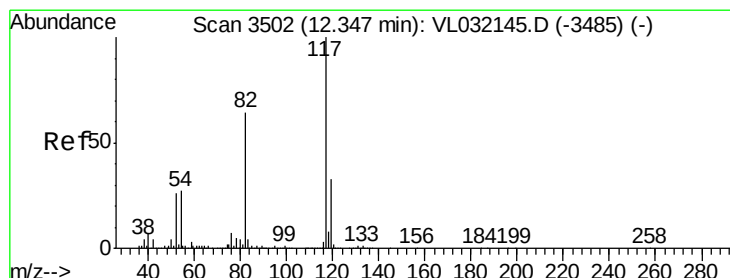
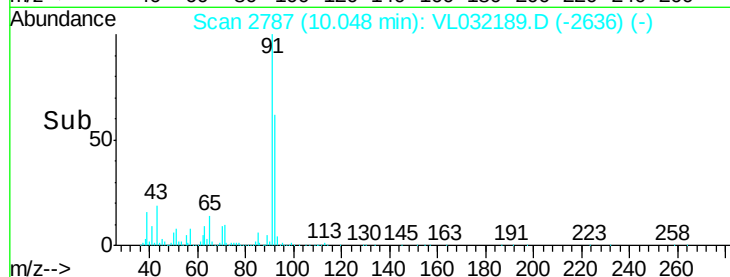
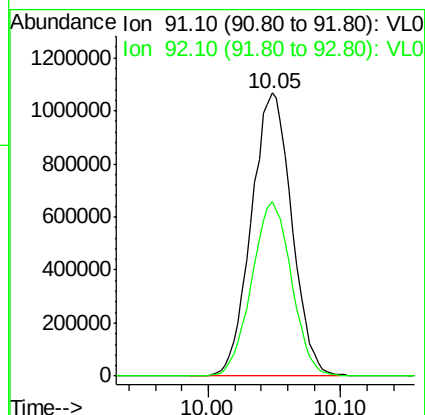
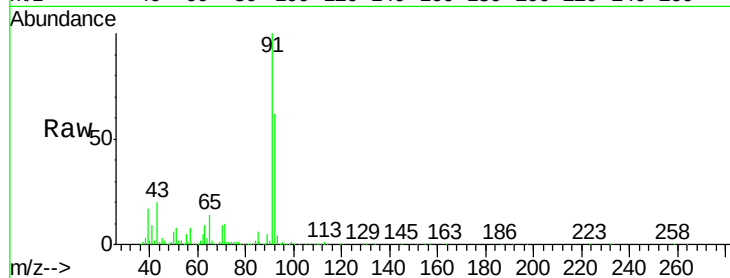
INFLUENT

Tgt Ion: 91 Resp: 2272566

Ion Ratio Lower Upper

91 100

92 60.8 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.34 min Scan# 3501

Delta R.T. -0.02 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

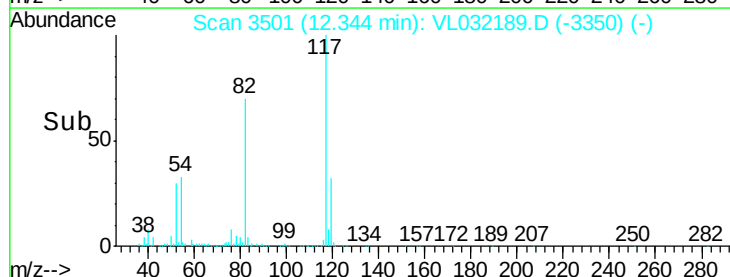
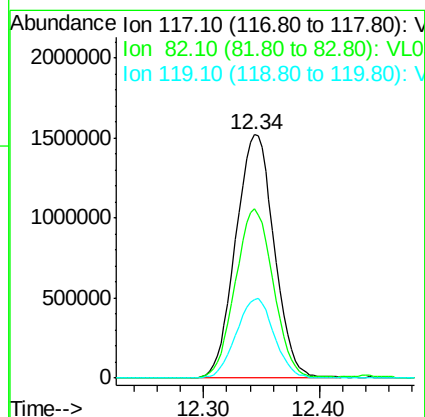
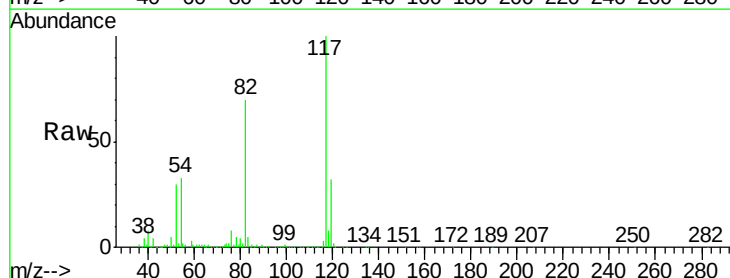
Tgt Ion: 117 Resp: 3506616

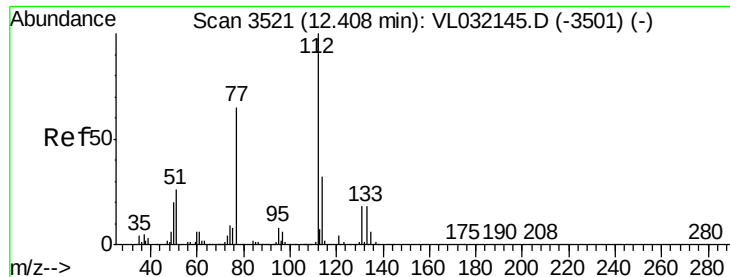
Ion Ratio Lower Upper

117 100

82 68.9 47.8 71.8

119 32.5 43.3 64.9#





#57

Chlorobenzene

Concen: 0.041 ppbv

RT: 12.40 min Scan# 3520

Delta R.T. -0.02 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

INFLUENT

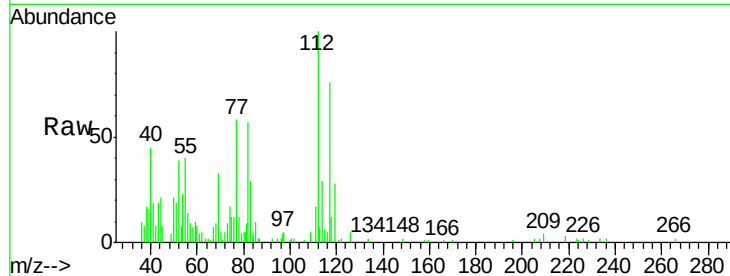
Tgt Ion: 112 Resp: 12453

Ion Ratio Lower Upper

112 100

77 32.1 52.6 78.8#

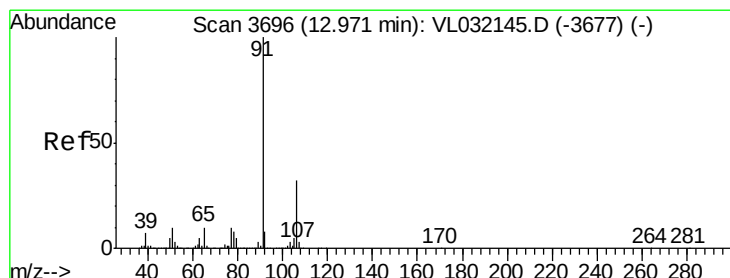
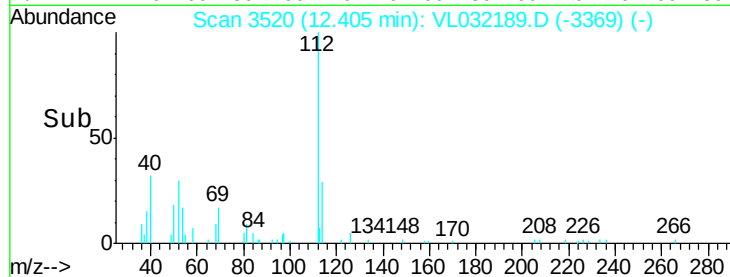
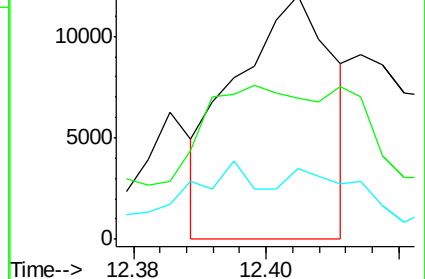
114 9.6 27.9 34.1#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.235 ppbv

RT: 12.96 min Scan# 3694

Delta R.T. -0.02 min

Lab File: VL032189.D

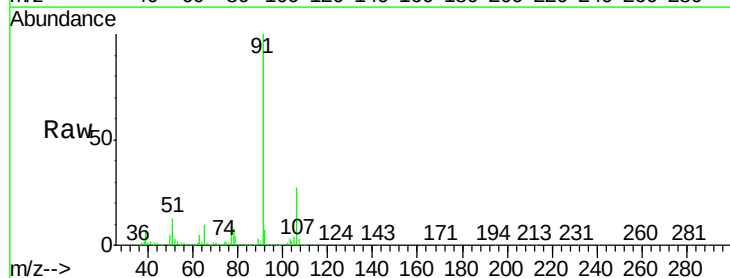
Acq: 2 Jul 2018 19:49

Tgt Ion: 91 Resp: 698195

Ion Ratio Lower Upper

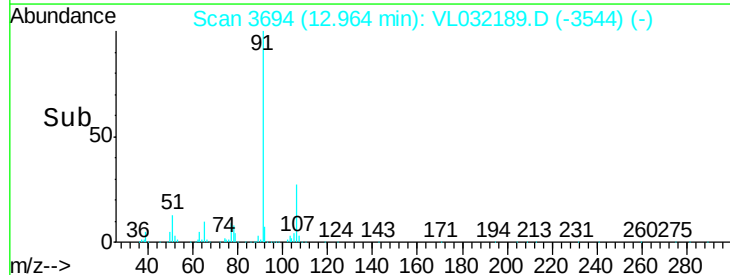
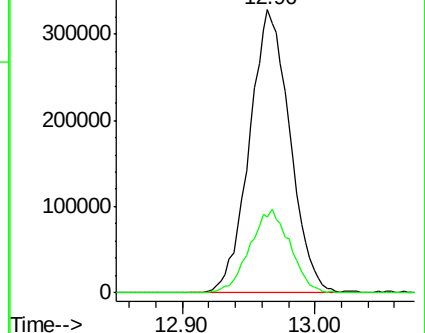
91 100

106 26.7 26.5 39.7

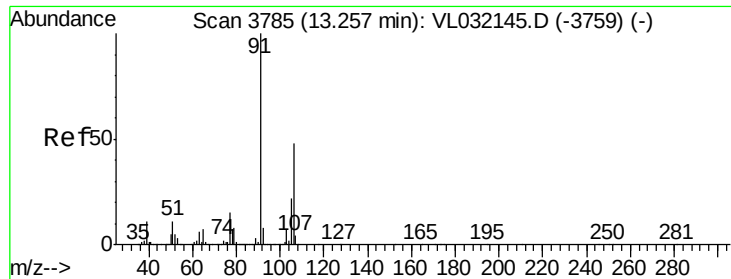


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



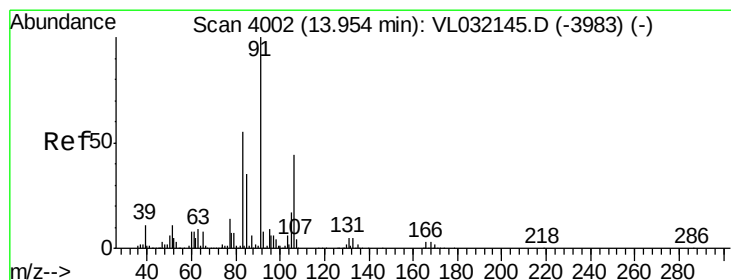
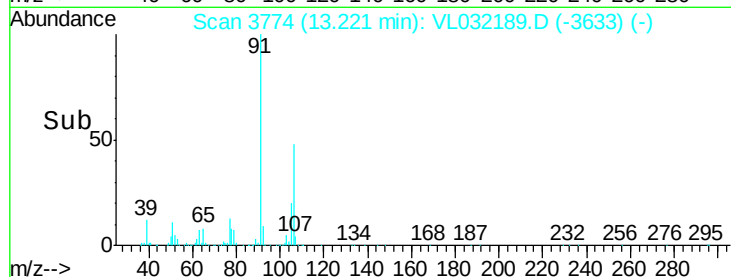
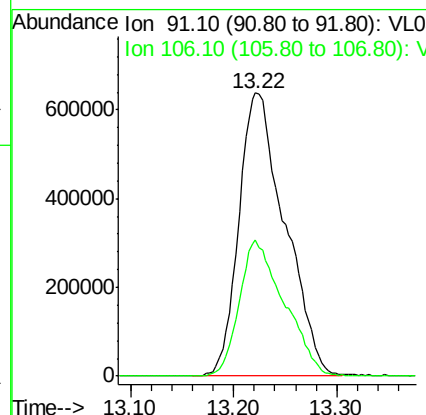
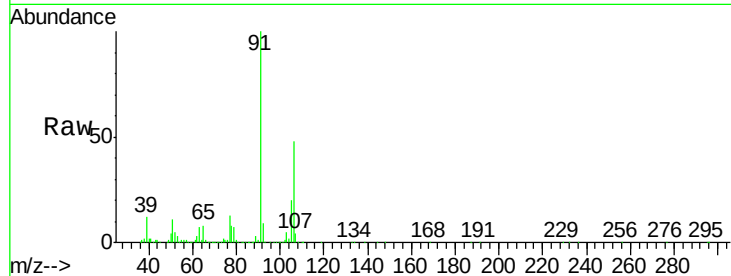




#59  
m/p-Xylene  
Concen: 4.361 ppbv  
RT: 13.22 min Scan# 3774  
Delta R.T. -0.05 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

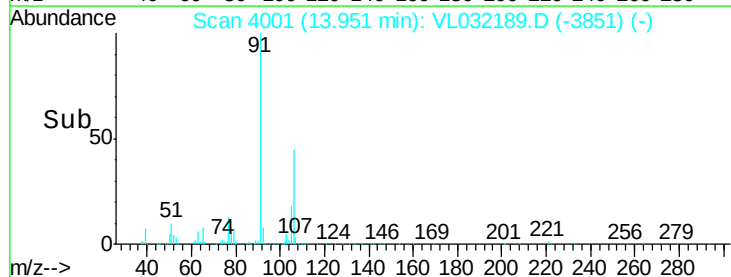
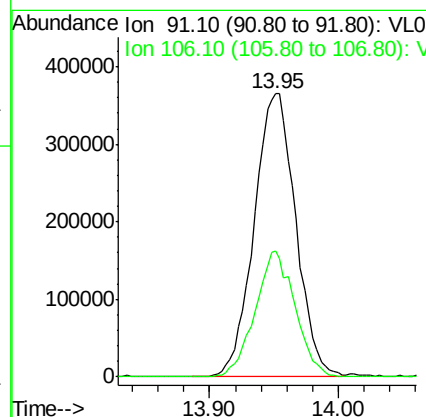
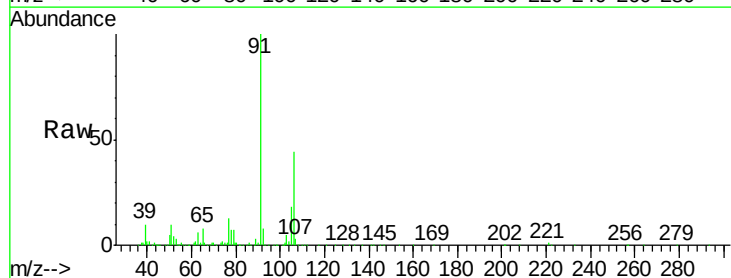
Instrument :  
MSVOA\_L  
ClientSampleId :  
INFLUENT

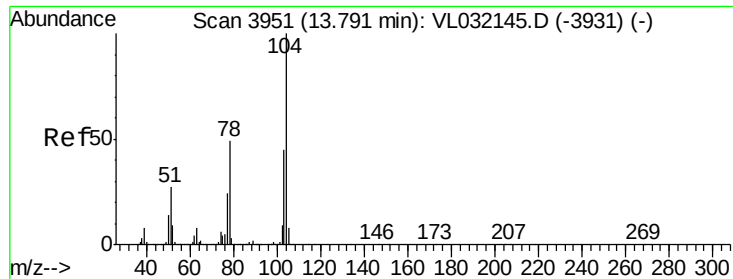
Tgt Ion: 91 Resp: 197514  
Ion Ratio Lower Upper  
91 100  
106 46.9 38.6 58.0



#60  
o-Xylene  
Concen: 1.816 ppbv  
RT: 13.95 min Scan# 4001  
Delta R.T. -0.02 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

Tgt Ion: 91 Resp: 820315  
Ion Ratio Lower Upper  
91 100  
106 42.7 23.3 69.8





#61

Styrene

Concen: 0.048 ppbv

RT: 13.78 min Scan# 3949

Delta R.T. -0.02 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampleId :

INFLUENT

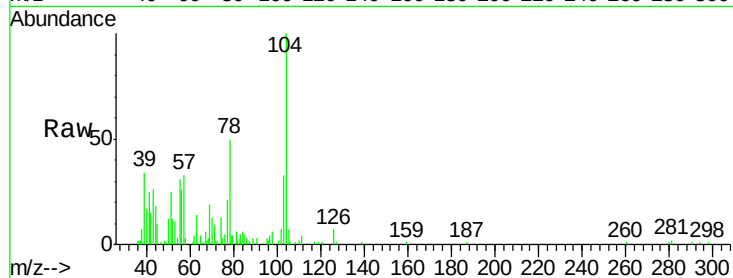
Tgt Ion:104 Resp: 17752

Ion Ratio Lower Upper

104 100

78 0.0 37.9 56.9#

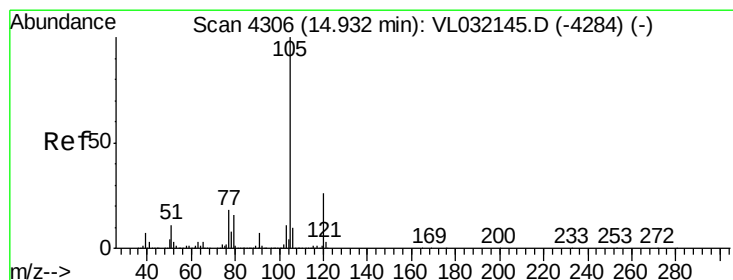
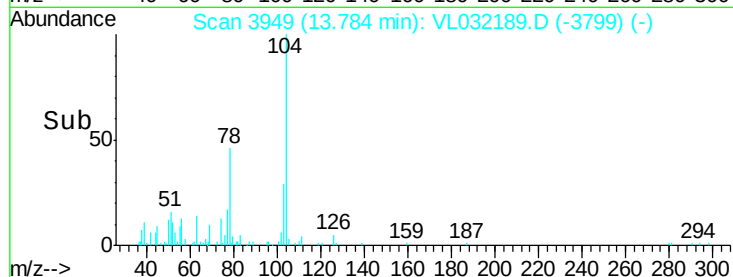
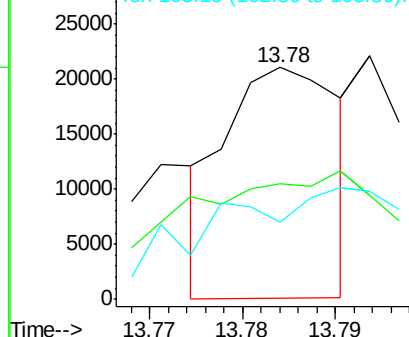
103 0.0 36.6 55.0#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.078 ppbv

RT: 14.93 min Scan# 4305

Delta R.T. -0.02 min

Lab File: VL032189.D

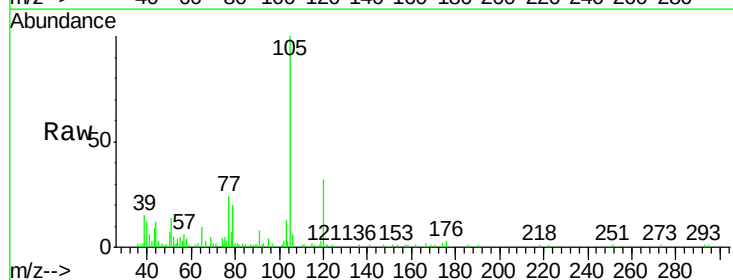
Acq: 2 Jul 2018 19:49

Tgt Ion:105 Resp: 54370

Ion Ratio Lower Upper

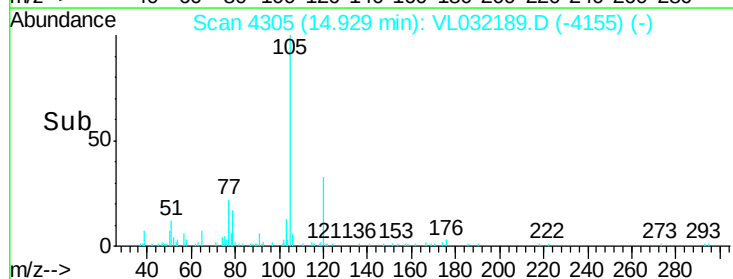
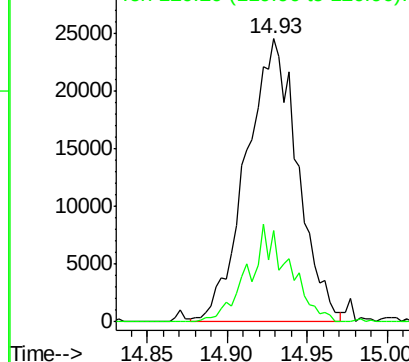
105 100

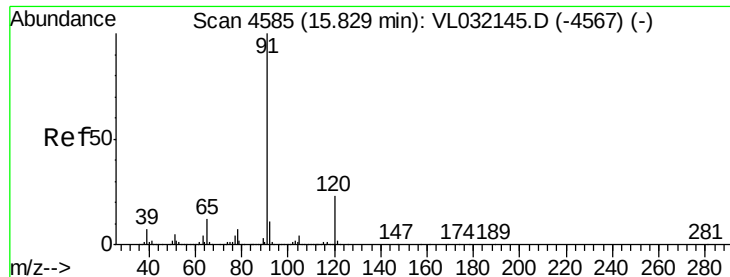
120 27.7 21.0 31.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#64

n-propylbenzene

Concen: 0.107 ppbv

RT: 15.82 min Scan# 4581

Delta R.T. -0.03 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

Instrument :

MSVOA\_L

ClientSampled :

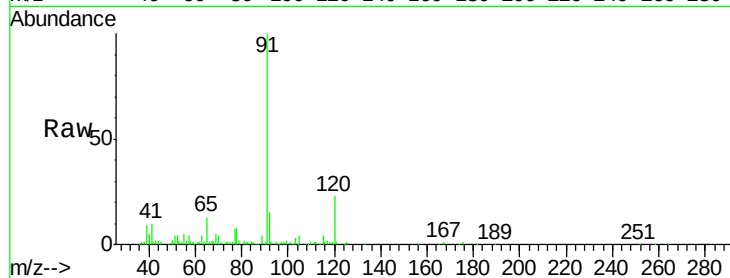
INFLUENT

Tgt Ion:120 Resp: 19295

Ion Ratio Lower Upper

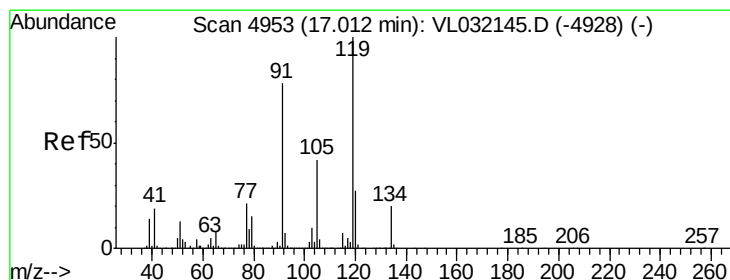
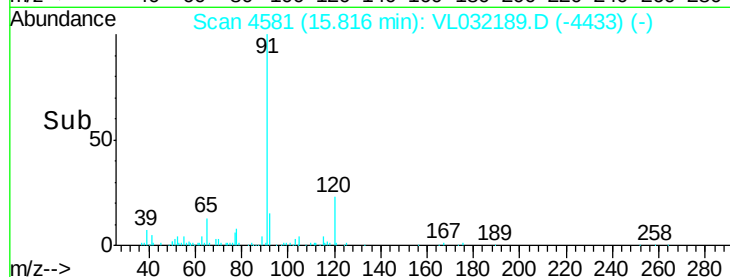
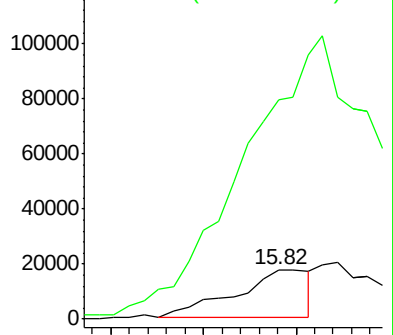
120 100

91 0.0 357.4 536.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.118 ppbv

RT: 17.03 min Scan# 4958

Delta R.T. 0.00 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

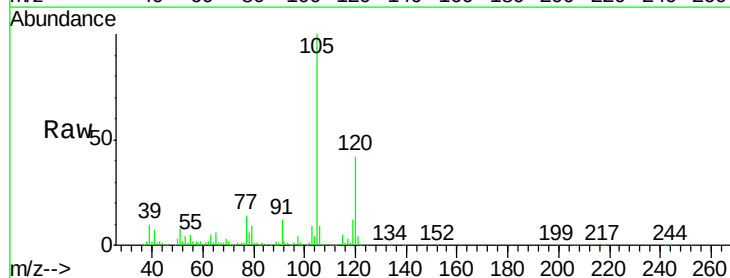
Tgt Ion:119 Resp: 71904

Ion Ratio Lower Upper

119 100

91 115.8 62.2 93.2#

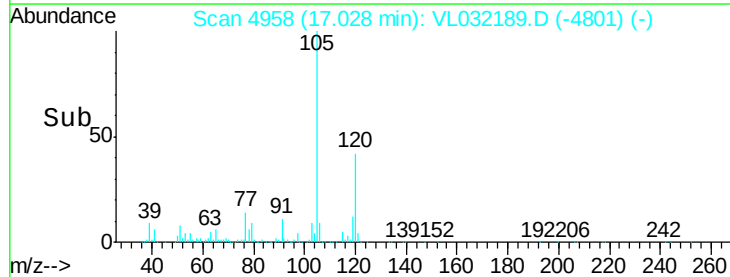
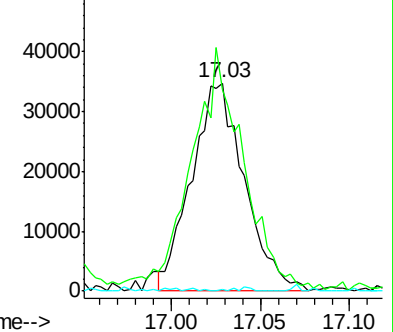
134 0.0 16.2 24.2#

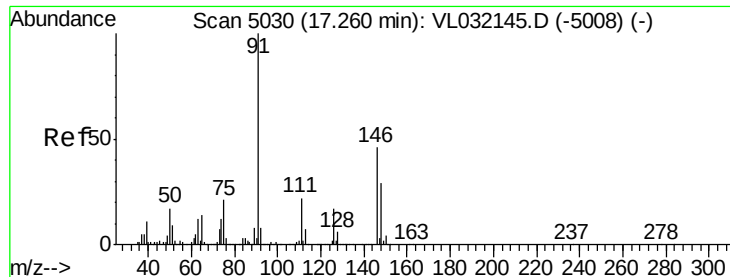


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

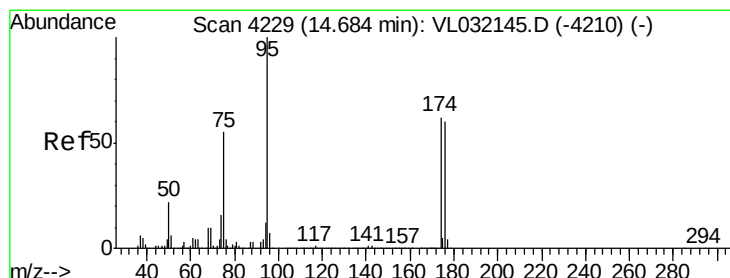
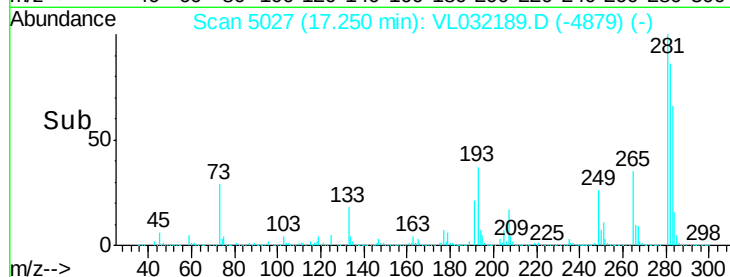
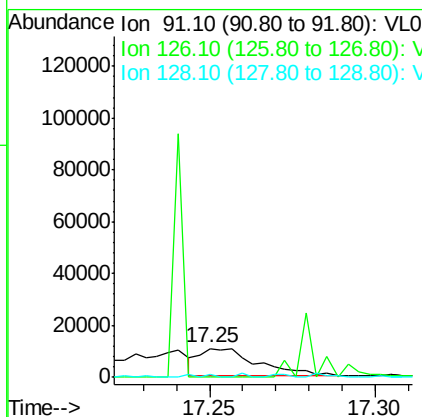
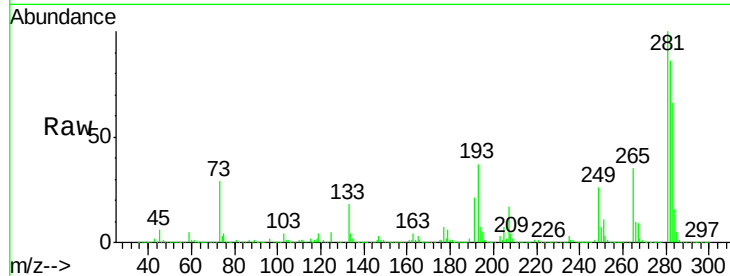




#66  
Benzyl Chloride  
Concen: 0.034 ppbv  
RT: 17.25 min Scan# 5027  
Delta R.T. -0.03 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

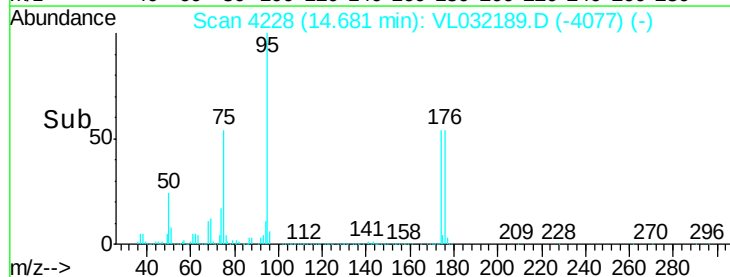
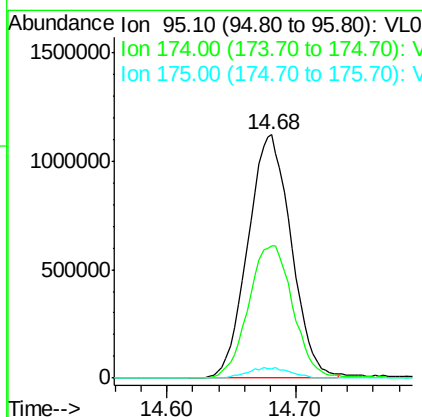
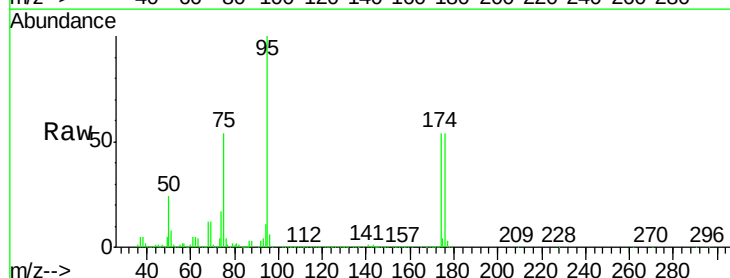
Instrument :  
MSVOA\_L  
ClientSampleId :  
INFLUENT

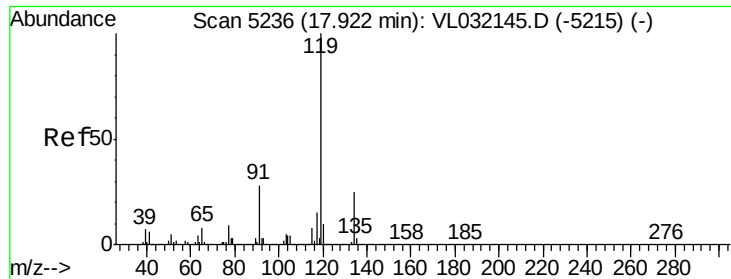
Tgt Ion: 91 Resp: 12928  
Ion Ratio Lower Upper  
91 100  
126 76.9 15.7 23.5#  
128 8.4 5.2 7.8#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.776 ppbv  
RT: 14.68 min Scan# 4228  
Delta R.T. -0.02 min  
Lab File: VL032189.D  
Acq: 2 Jul 2018 19:49

Tgt Ion: 95 Resp: 2620488  
Ion Ratio Lower Upper  
95 100  
174 56.6 52.1 78.1  
175 4.2 4.0 6.0

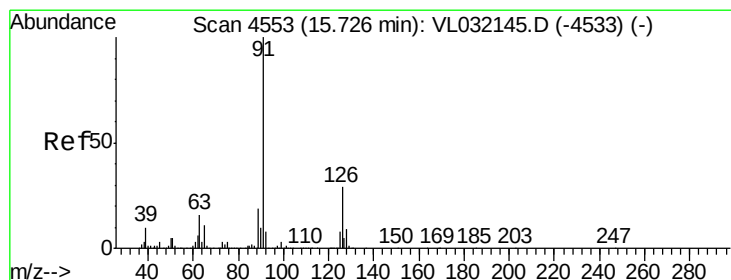
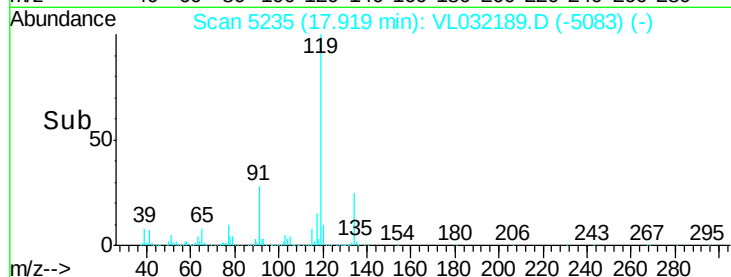
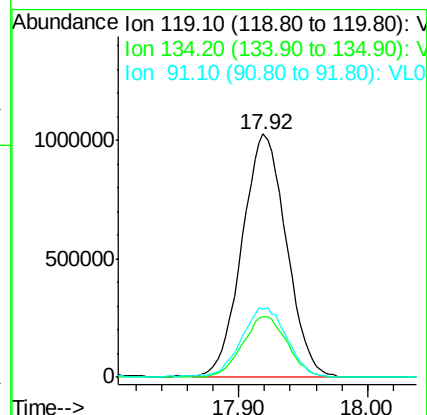
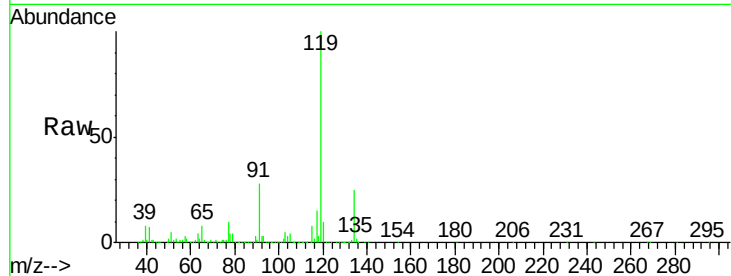




#69  
 p-Isopropyltoluene  
 Concen: 3.399 ppbv  
 RT: 17.92 min Scan# 5235  
 Delta R.T. -0.01 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

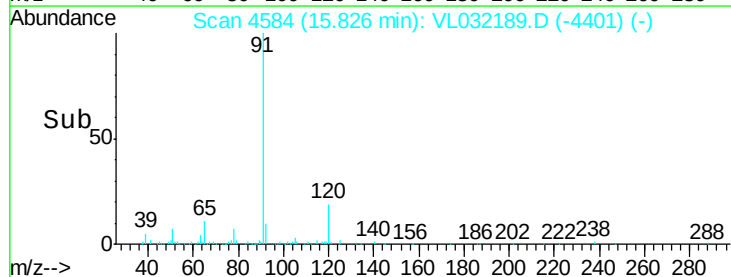
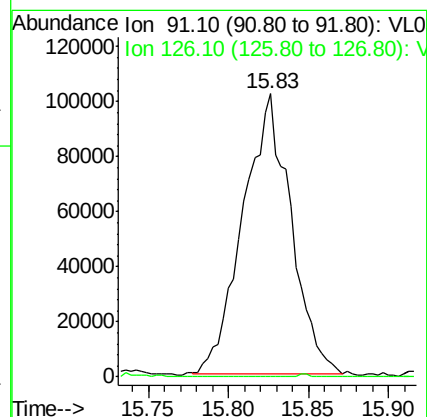
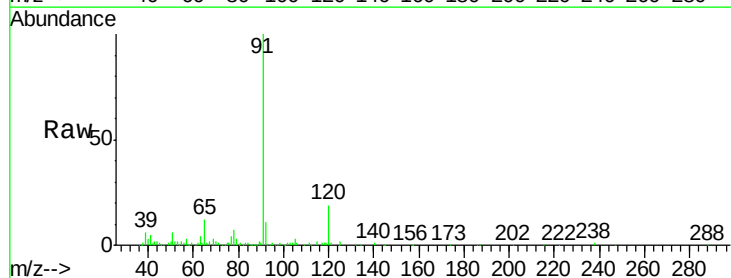
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

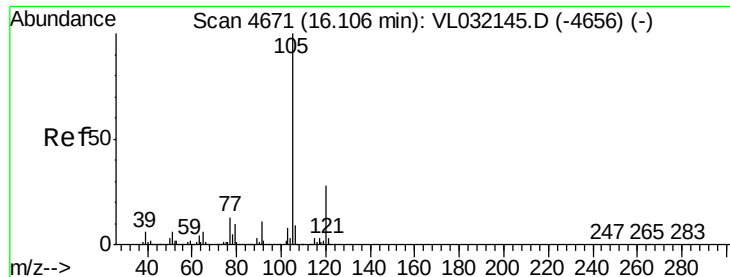
Tgt Ion:119 Resp: 2437228  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 20.7 31.1  
 91 30.1 21.8 32.8



#71  
 2-Chlorotoluene  
 Concen: 0.390 ppbv  
 RT: 15.83 min Scan# 4584  
 Delta R.T. 0.09 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

Tgt Ion: 91 Resp: 208513  
 Ion Ratio Lower Upper  
 91 100  
 126 0.2 12.8 51.0#





#72

4-Ethyltoluene

Concen: 0.447 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. -0.02 min

Lab File: VL032189.D

Acq: 2 Jul 2018 19:49

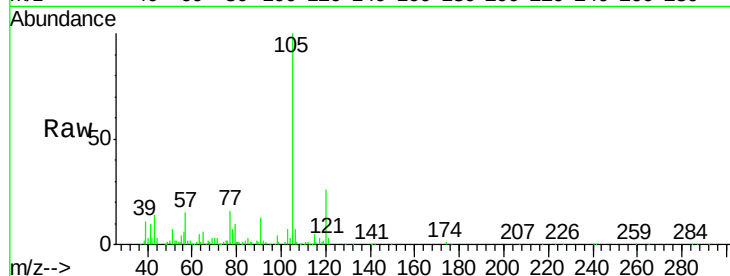
Instrument :

MSVOA\_L

ClientSampleId :

INFLUENT

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 261120 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 26.3  | 24.3  | 36.5   |
| 91       | 13.5  | 9.4   | 14.0   |
| 77       | 14.5  | 10.2  | 15.2   |

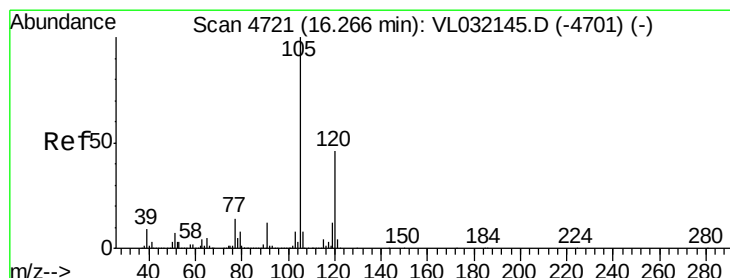
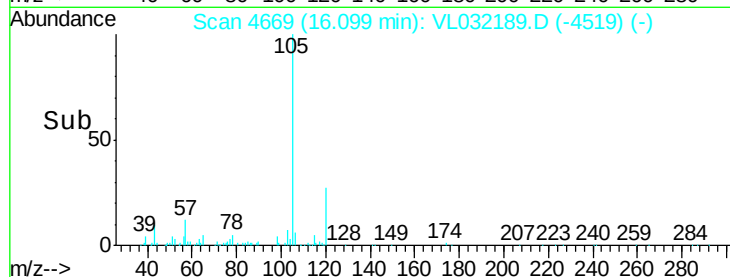
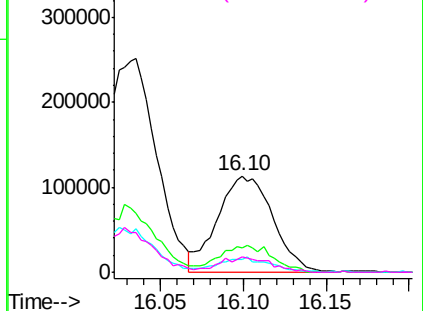


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.233 ppbv

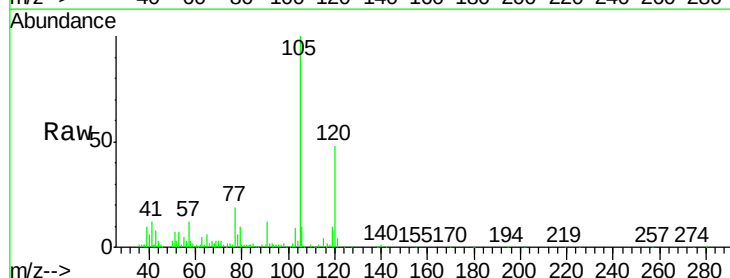
RT: 16.26 min Scan# 4718

Delta R.T. -0.02 min

Lab File: VL032189.D

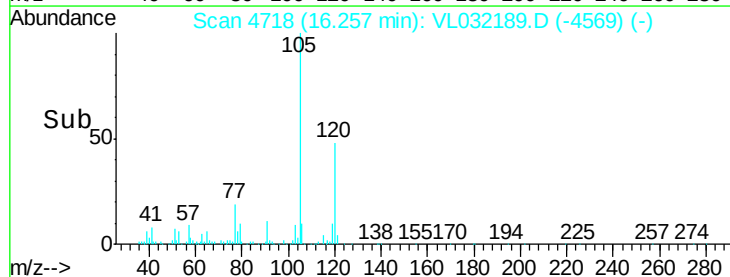
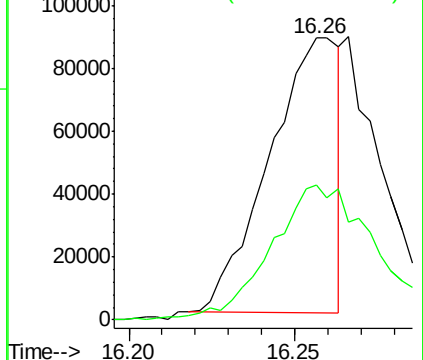
Acq: 2 Jul 2018 19:49

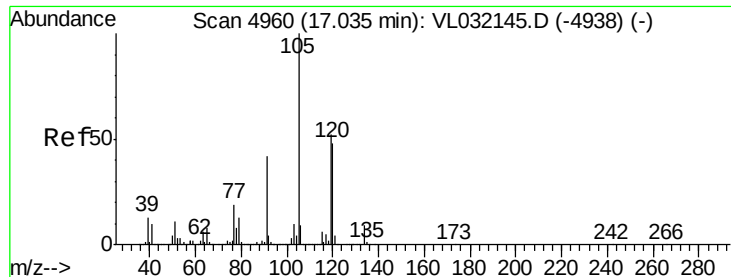
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 127824 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 47.3  | 38.6  | 57.8   |



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

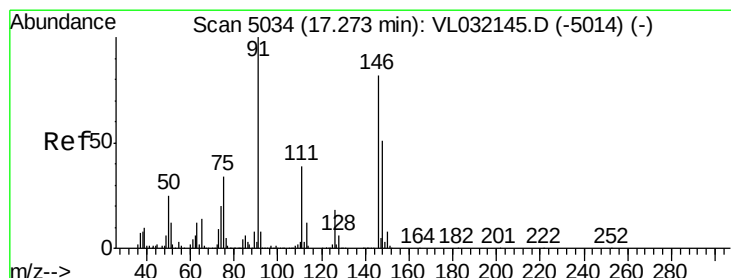
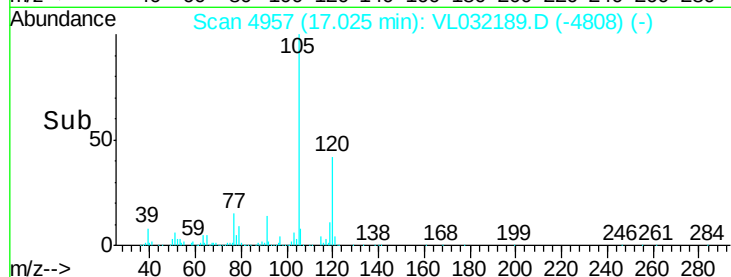
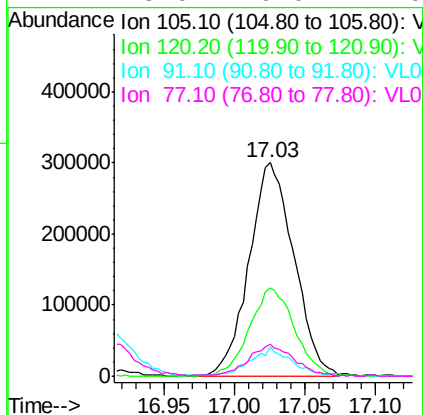
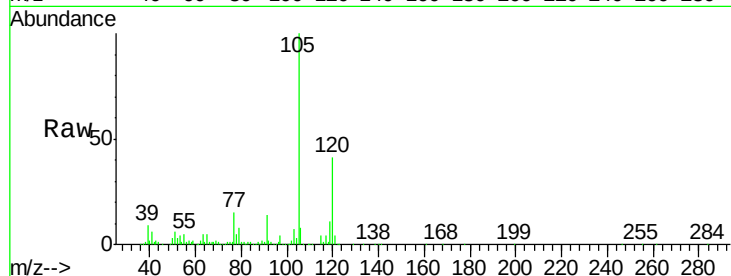




#74  
 1,2,4-Trimethylbenzene  
 Concen: 1.198 ppbv  
 RT: 17.03 min Scan# 4957  
 Delta R.T. -0.02 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

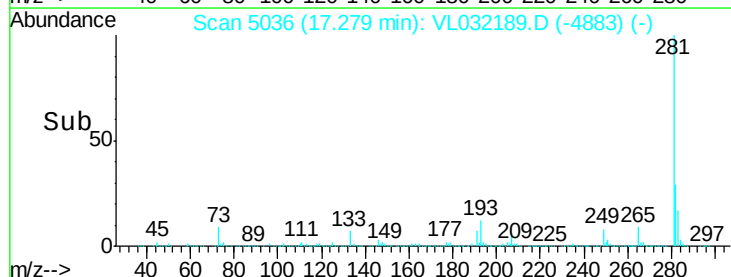
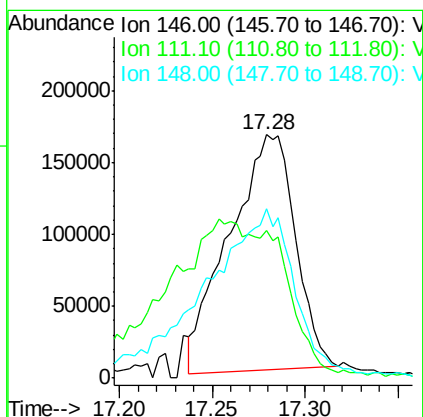
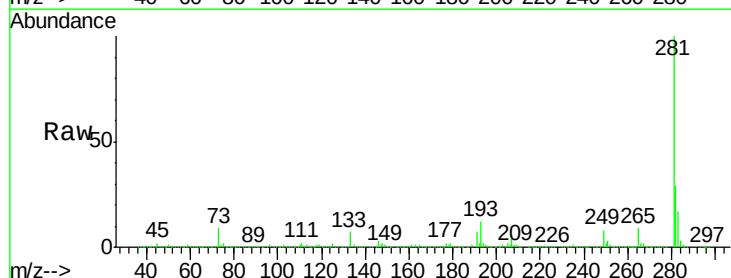
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

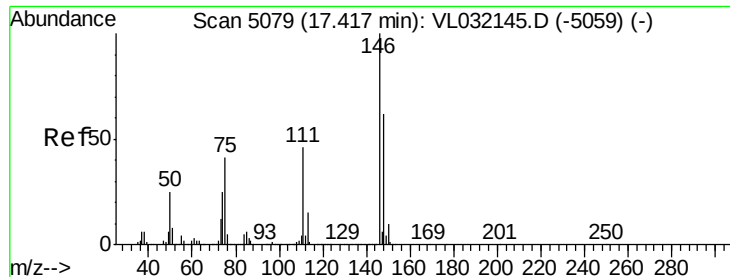
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 664517 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 41.4  | 38.8  | 58.2   |
| 91       | 13.3  | 33.6  | 50.4#  |
| 77       | 15.0  | 16.0  | 24.0#  |



#75  
 1,3-Dichlorobenzene  
 Concen: 1.278 ppbv  
 RT: 17.28 min Scan# 5036  
 Delta R.T. -0.01 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 146   | Resp: | 403211 |
| Ion      | Ratio | Lower | Upper  |
| 146      | 100   |       |        |
| 111      | 0.0   | 22.9  | 68.8#  |
| 148      | 102.8 | 31.7  | 95.1#  |

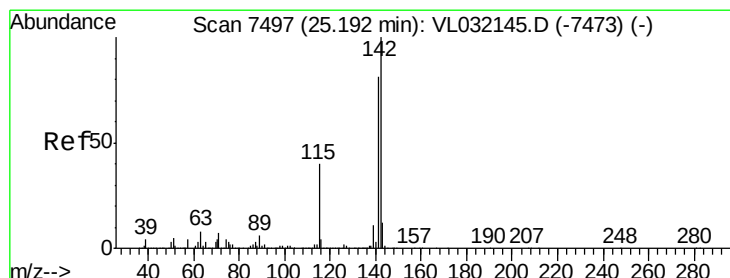
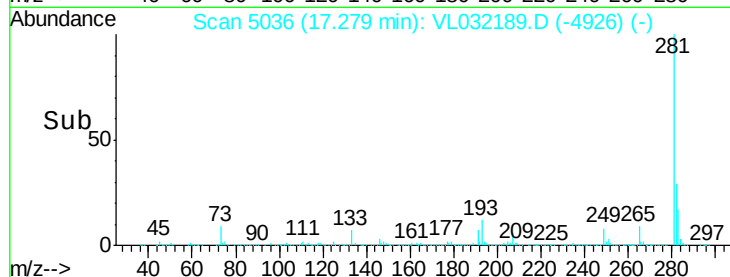
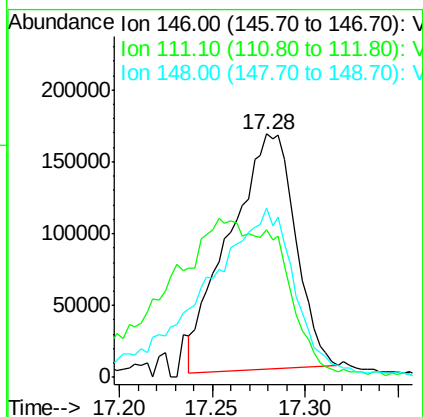
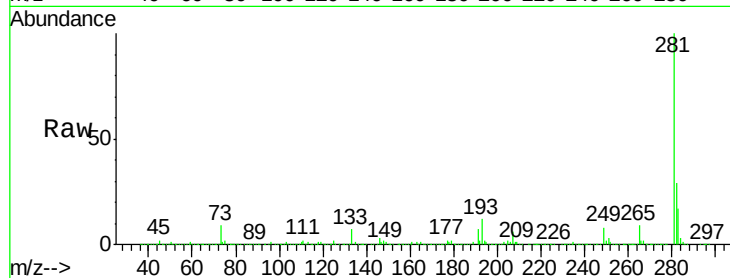




#76  
 1,4-Dichlorobenzene  
 Concen: 1.260 ppbv  
 RT: 17.28 min Scan# 5036  
 Delta R.T. -0.15 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 INFLUENT

Tgt Ion:146 Resp: 403211  
 Ion Ratio Lower Upper  
 146 100  
 111 0.0 21.9 65.8#  
 148 102.5 32.1 96.5#



#80  
 Naphthalene, 2-methyl-  
 Concen: 0.038 ppbv  
 RT: 25.21 min Scan# 7503  
 Delta R.T. 0.01 min  
 Lab File: VL032189.D  
 Acq: 2 Jul 2018 19:49

Tgt Ion:142 Resp: 6915  
 Ion Ratio Lower Upper  
 142 100  
 141 33.0 65.8 98.6#  
 115 0.0 29.4 44.0#

