

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032519\  
 Data File : VL033450.D  
 Acq On : 26 Mar 2019 00:07  
 Operator : SY/AP  
 Sample : K1991-02DUP  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-1DUP

Manual Integrations  
 APPROVED

MMDadoda  
 4/1/2019 1:56:44 AM

Quant Time: Mar 31 10:47:02 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Mar 2  
 QLast Update : Tue Mar 26 16:00:50 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.76  | 49   | 631489   | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.29  | 114  | 1475369  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.24 | 117  | 1583388  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.57  | 95    | 1242929  | 10.01    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.10% |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.08  | 85   | 32973    | 0.358  | ppbv # | 84     |
| 4) Chloromethane               | 3.17  | 50   | 25886    | 0.673  | ppbv   | 91     |
| 9) Propene                     | 3.05  | 41   | 46181m   | 1.513  | ppbv   |        |
| 10) Heptane                    | 8.25  | 43   | 15688m   | 0.192  | ppbv   |        |
| 11) Trichlorofluoromethane     | 4.00  | 101  | 32448    | 0.286  | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.55  | 101  | 7671m    | 0.101  | ppbv   |        |
| 13) Ethanol                    | 3.65  | 45   | 712050   | 90.126 | ppbv   | 65     |
| 15) Acetone                    | 3.90  | 43   | 970282m  | 12.779 | ppbv   |        |
| 17) tert-Butyl alcohol         | 4.37  | 59   | 18705m   | 1.340  | ppbv   |        |
| 19) Isopropyl Alcohol          | 4.03  | 45   | 264889m  | 5.516  | ppbv   |        |
| 20) Methylene Chloride         | 4.41  | 84   | 215750   | 6.694  | ppbv   | 95     |
| 25) Ethyl Acetate              | 5.77  | 43   | 512296   | 3.636  | ppbv   | 98     |
| 26) Hexane                     | 5.78  | 57   | 283519   | 4.526  | ppbv # | 81     |
| 27) Carbon Disulfide           | 4.62  | 76   | 107623   | 1.445  | ppbv # | 85     |
| 30) Cyclohexane                | 7.24  | 84   | 18739m   | 0.378  | ppbv   |        |
| 34) 2-Butanone                 | 5.33  | 43   | 123279   | 1.391  | ppbv   | 98     |
| 35) Carbon Tetrachloride       | 7.13  | 117  | 8992m    | 0.086  | ppbv   |        |
| 36) Benzene                    | 7.00  | 78   | 31545    | 0.255  | ppbv   | 96     |
| 37) 1,2-Dichloroethane         | 6.41  | 62   | 19564m   | 0.236  | ppbv   |        |
| 41) Tetrahydrofuran            | 6.16  | 42   | 12327    | 0.253  | ppbv   | 94     |
| 44) 2,2,4-Trimethylpentane     | 7.99  | 57   | 17955m   | 0.083  | ppbv   |        |
| 52) Tetrachloroethene          | 11.38 | 164  | 3277m    | 0.070  | ppbv   |        |
| 53) Toluene                    | 9.94  | 91   | 2096229  | 14.572 | ppbv   | 99     |
| 58) Ethyl Benzene              | 12.86 | 91   | 49993m   | 0.236  | ppbv   |        |
| 59) m/p-Xylene                 | 13.12 | 91   | 111457m  | 0.590  | ppbv   |        |
| 60) o-Xylene                   | 13.84 | 91   | 46731    | 0.256  | ppbv   | 97     |
| 61) Styrene                    | 13.69 | 104  | 34069    | 0.272  | ppbv   | 92     |
| 79) Naphthalene                | 22.42 | 128  | 13232m   | 0.073  | ppbv   |        |

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

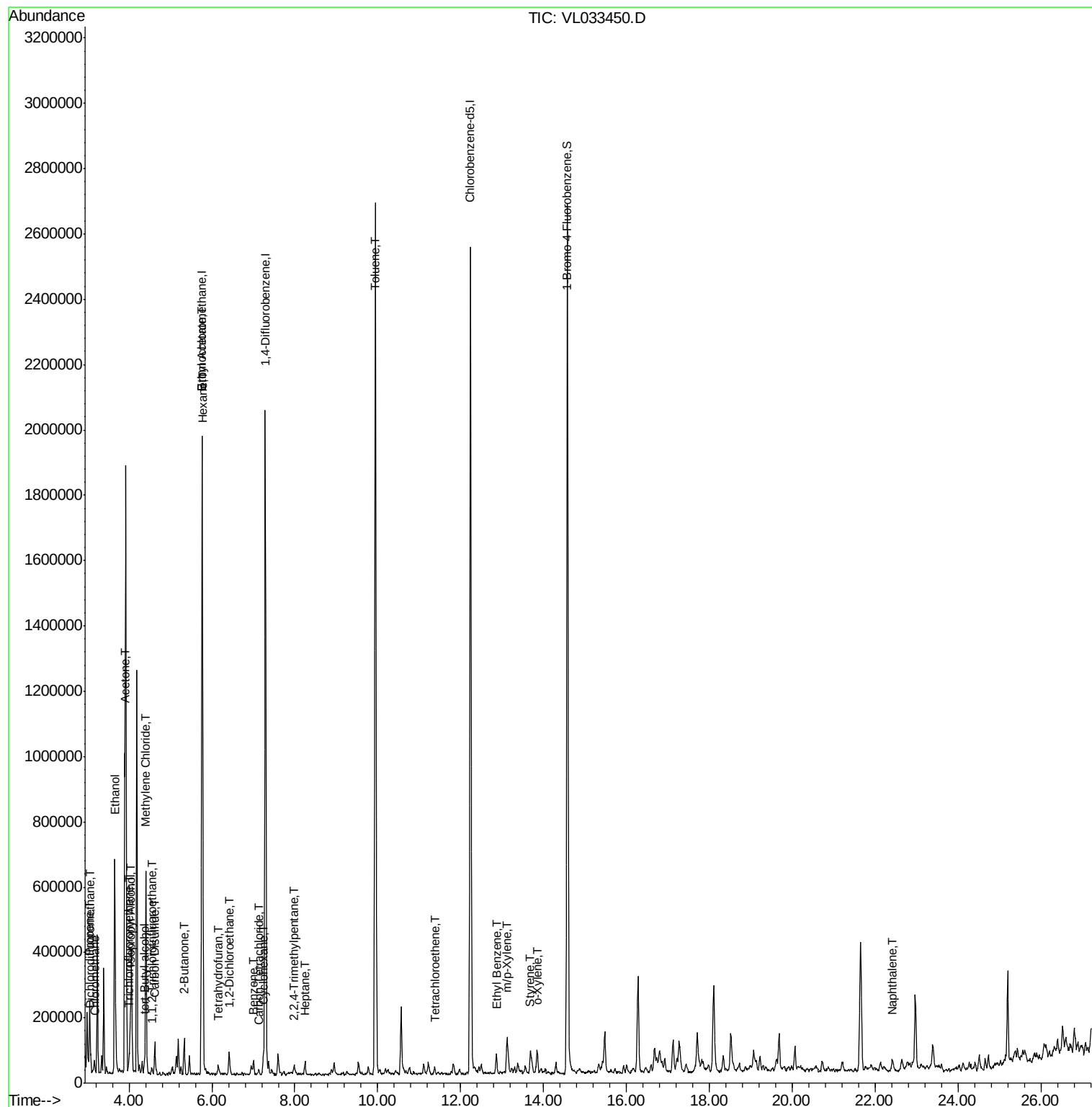
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032519\  
Data File : VL033450.D  
Acq On : 26 Mar 2019 00:07  
Operator : SY/AP  
Sample : K1991-02DUP  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

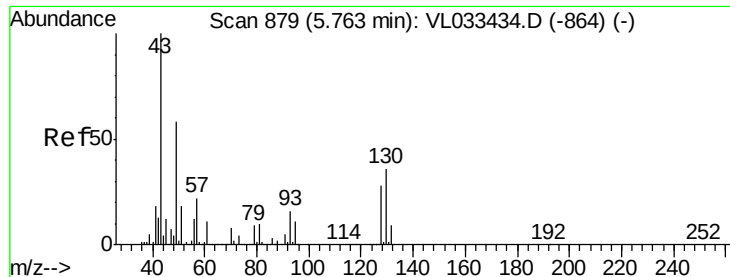
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

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4/1/2019 1:56:44 AM

Quant Time: Mar 31 10:47:02 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LTue Mar  
QLast Update : Tue Mar 26 16:00:50 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

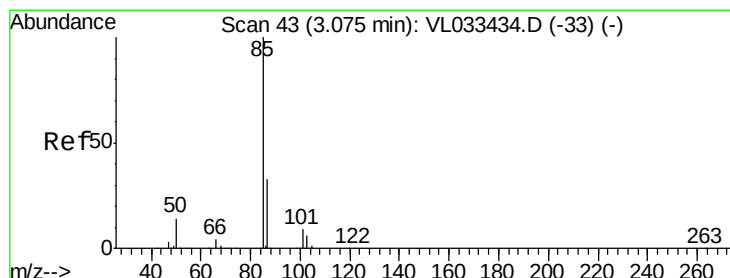
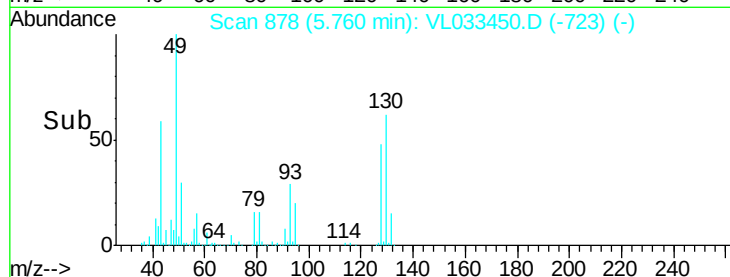
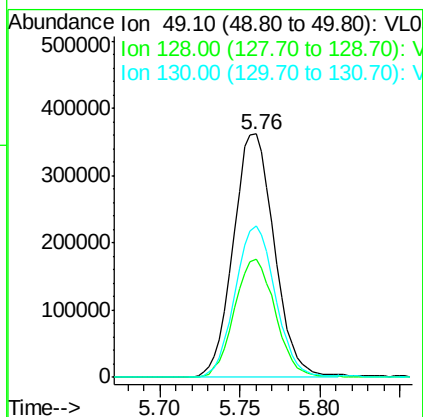
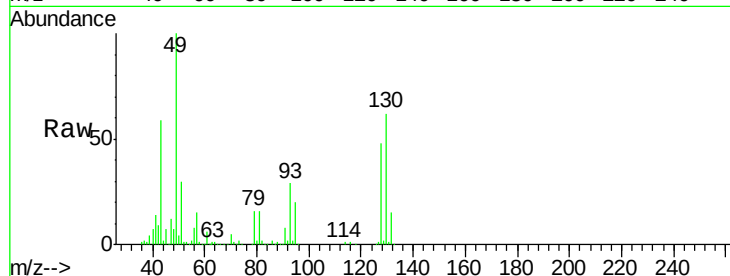
ClientSampled :

IA-1DUP

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 49    | Resp: | 631489 |
| Ion      | Ratio | Lower | Upper  |
| 49       | 100   |       |        |
| 128      | 48.6  | 24.0  | 72.0   |
| 130      | 61.8  | 31.2  | 93.6   |

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#2

Dichlorodifluoromethane

Concen: 0.358 ppbv

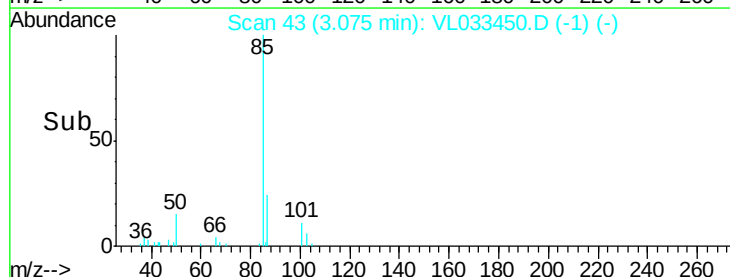
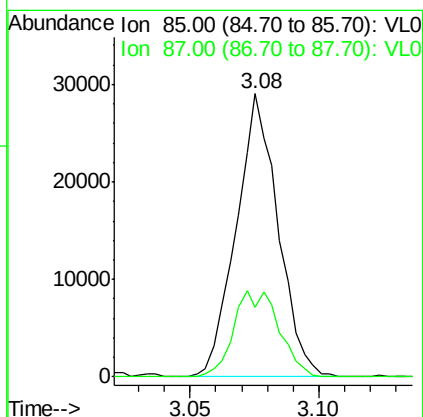
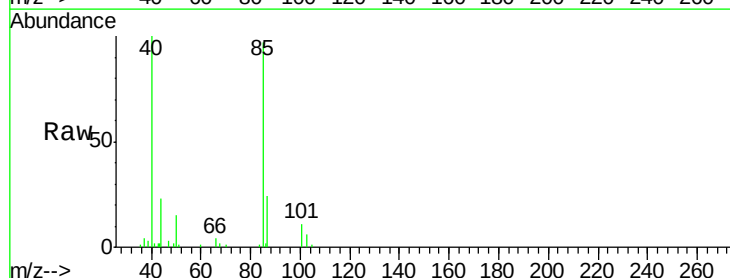
RT: 3.08 min Scan# 43

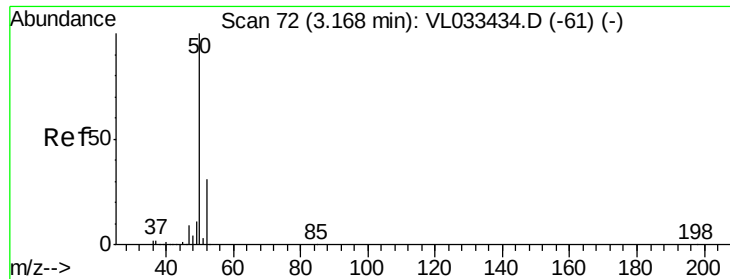
Delta R.T. 0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 85    | Resp: | 32973 |
| Ion      | Ratio | Lower | Upper |
| 85       | 100   |       |       |
| 87       | 24.4  | 26.7  | 40.1# |





#4

Chloromethane

Concen: 0.673 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion: 50 Resp: 25886

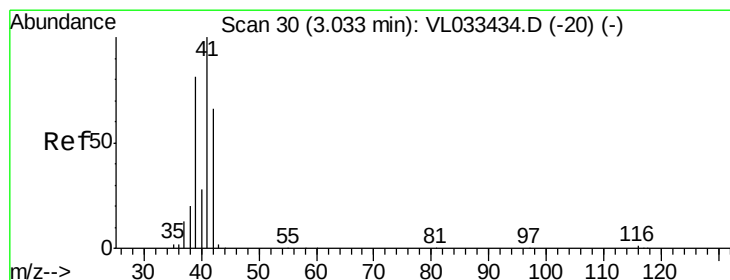
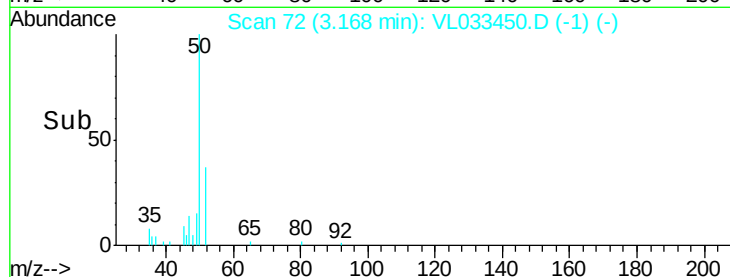
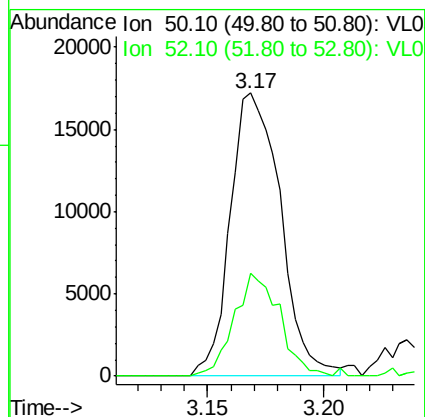
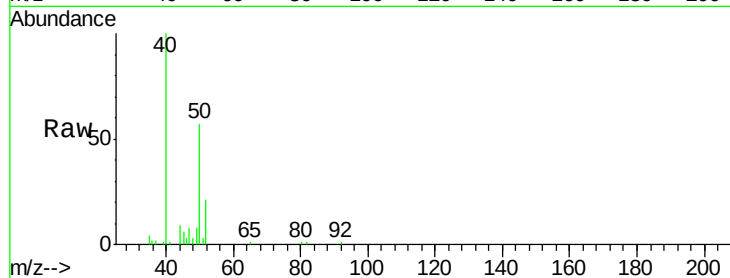
Ion Ratio Lower Upper

50 100

52 36.3 25.0 37.6

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#9

Propene

Concen: 1.513 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033450.D

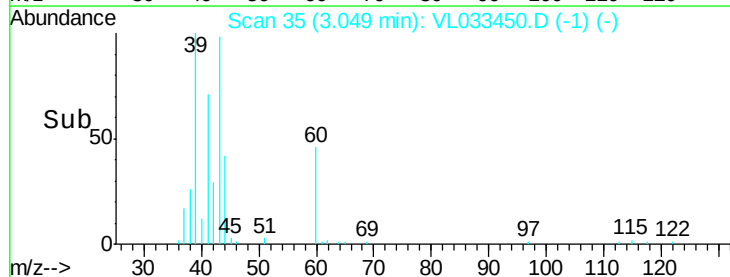
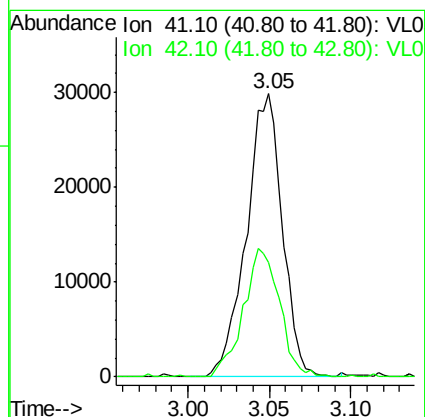
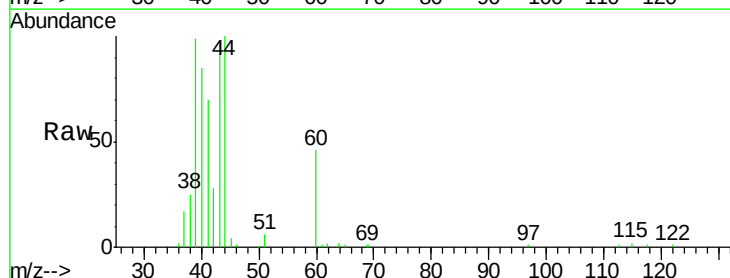
Acq: 26 Mar 2019 00:07

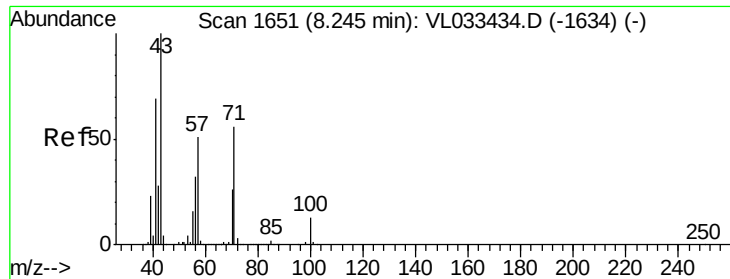
Tgt Ion: 41 Resp: 46181

Ion Ratio Lower Upper

41 100

42 152.8 53.9 80.9#





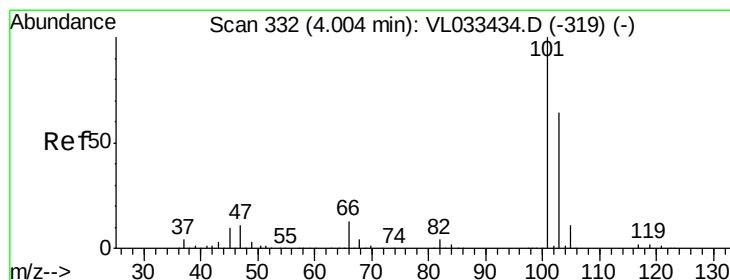
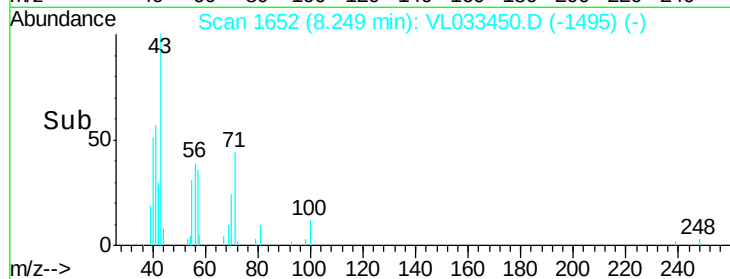
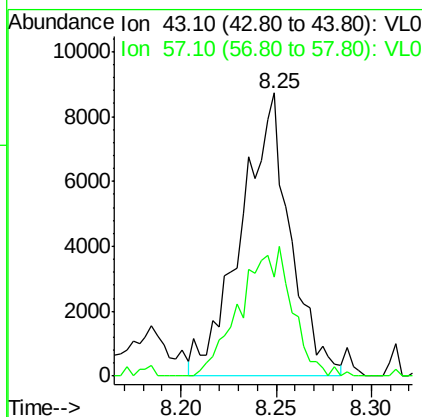
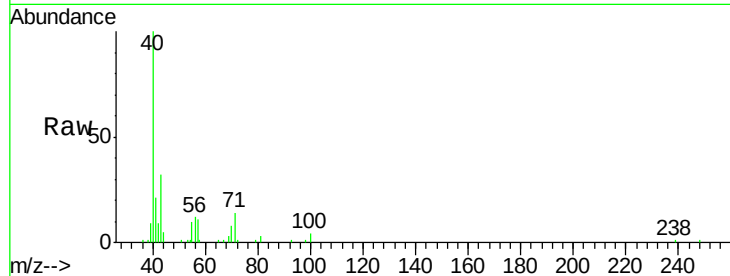
#10  
Heptane  
Concen: 0.192 ppbv m  
RT: 8.25 min Scan# 1652  
Delta R.T. 0.00 min  
Lab File: VL033450.D  
Acq: 26 Mar 2019 00:07

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Tot Ion: 43 Resp: 15688  
Ion Ratio Lower Upper  
43 100  
57 0.0 40.6 60.8#

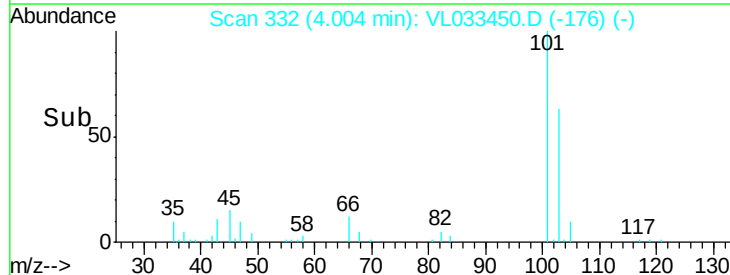
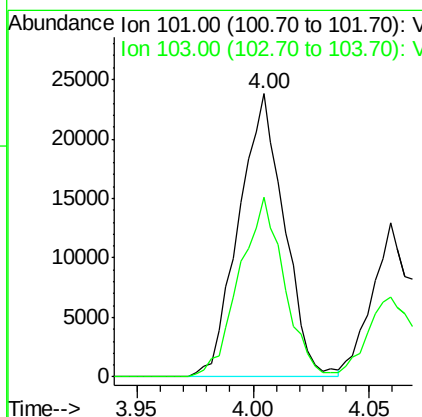
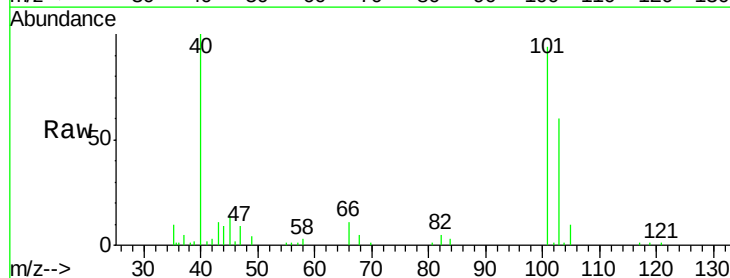
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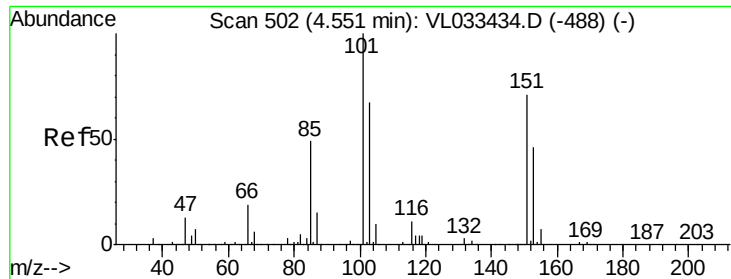
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#11  
Trichlorofluoromethane  
Concen: 0.286 ppbv  
RT: 4.00 min Scan# 332  
Delta R.T. 0.00 min  
Lab File: VL033450.D  
Acq: 26 Mar 2019 00:07

Tgt Ion: 101 Resp: 32448  
Ion Ratio Lower Upper  
101 100  
103 64.0 51.3 76.9





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.101 ppbv m

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

ClientSampled :

IA-1DUP

Tot Ion:101 Resp: 7671

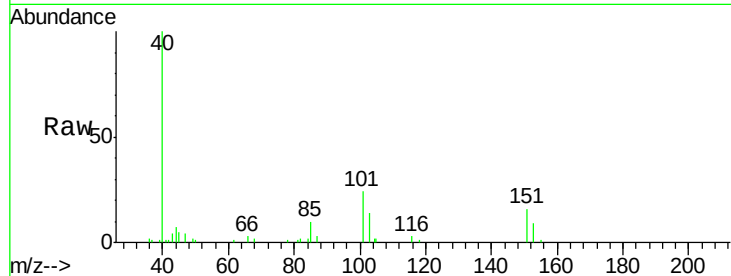
Ion Ratio Lower Upper

101 100

151 61.9 57.7 86.5

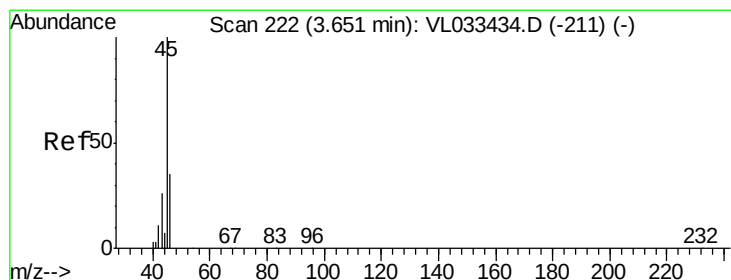
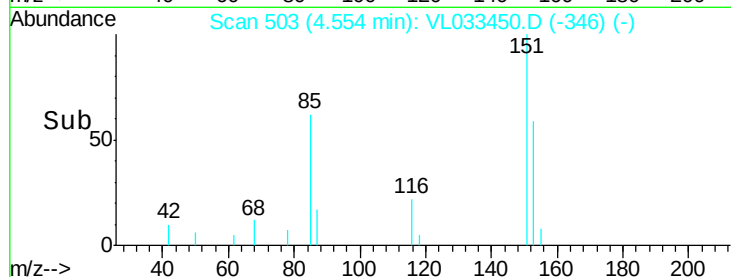
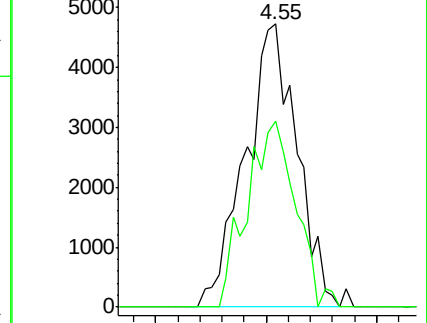
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 90.126 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033450.D

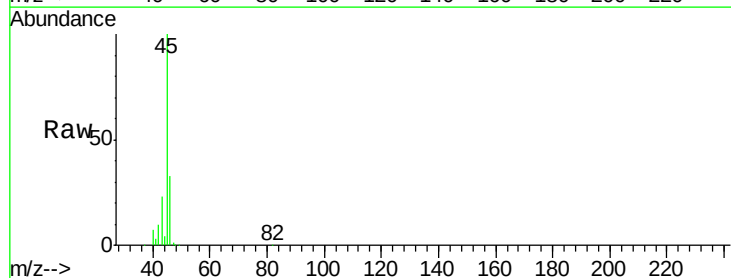
Acq: 26 Mar 2019 00:07

Tgt Ion: 45 Resp: 712050

Ion Ratio Lower Upper

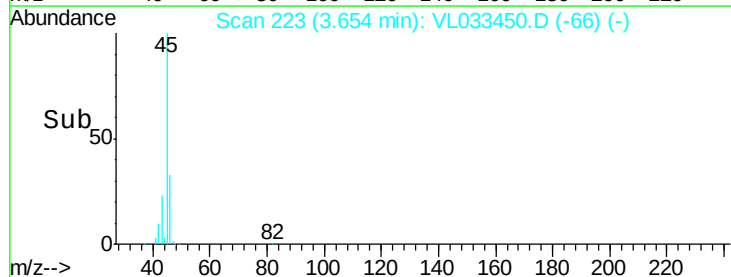
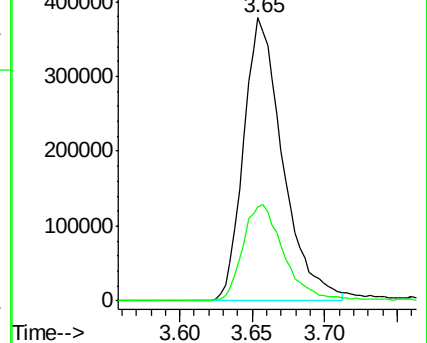
45 100

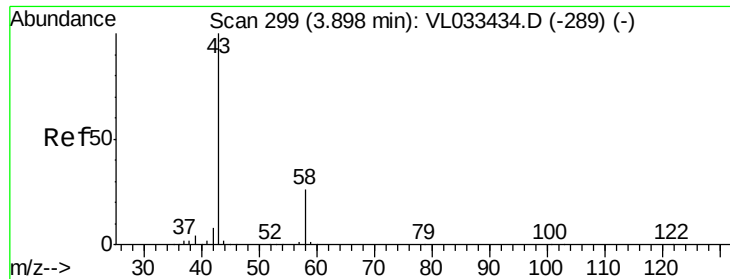
46 36.4 25.4 101.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 12.779 ppbv m

RT: 3.90 min Scan# 299

Delta R.T. 0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion: 43 Resp: 970282

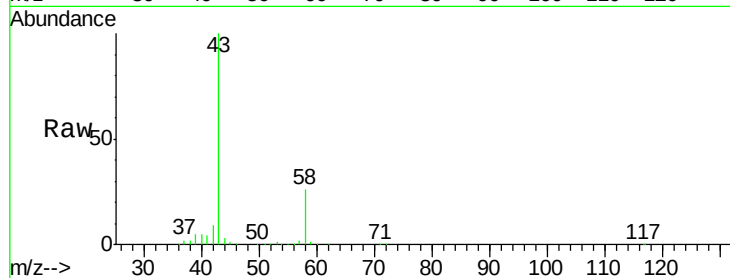
Ion Ratio Lower Upper

43 100

58 27.5 20.5 30.7

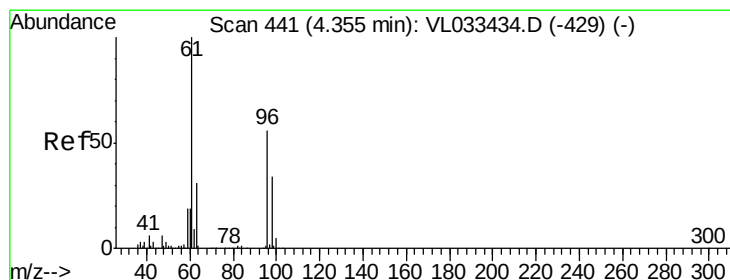
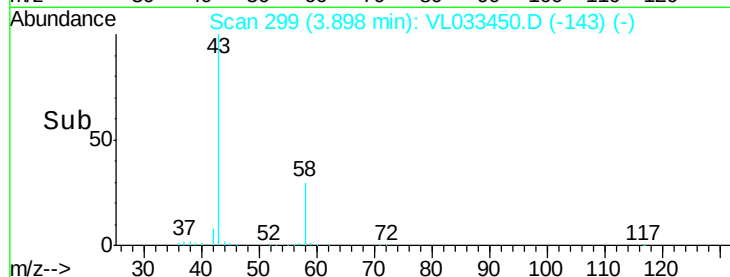
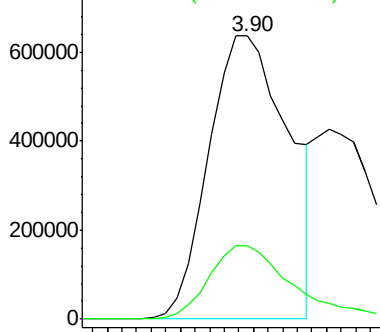
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 1.340 ppbv m

RT: 4.37 min Scan# 446

Delta R.T. 0.02 min

Lab File: VL033450.D

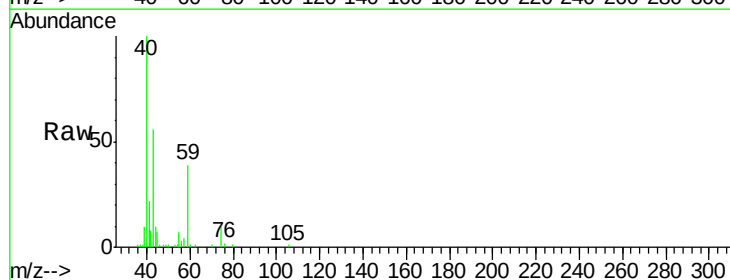
Acq: 26 Mar 2019 00:07

Tgt Ion: 59 Resp: 18705

Ion Ratio Lower Upper

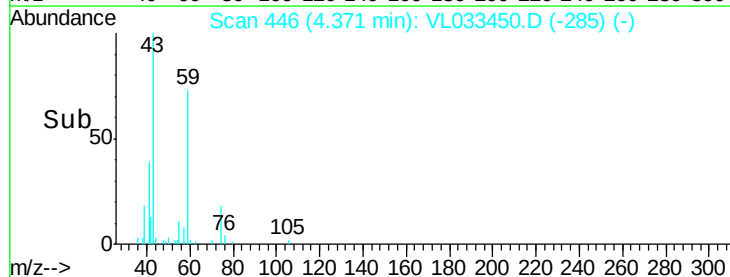
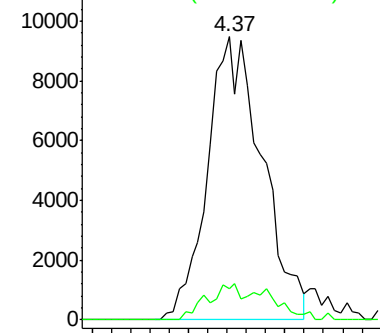
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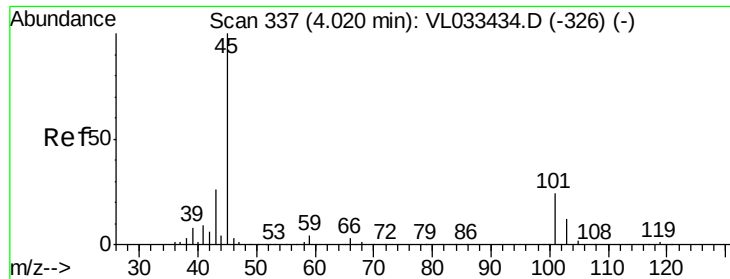
57 0.0 7.8 11.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





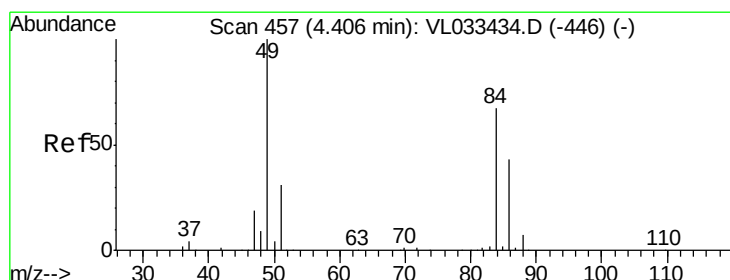
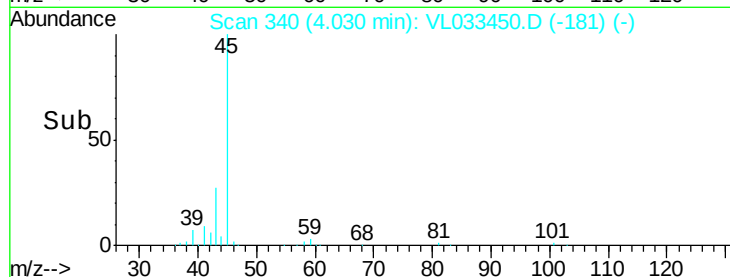
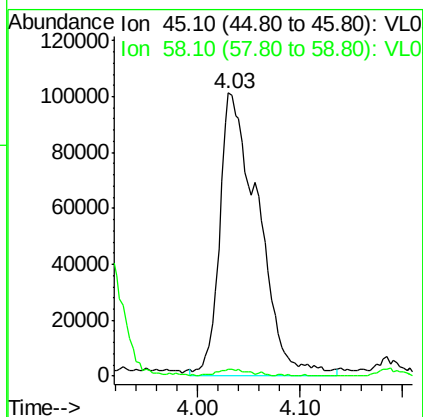
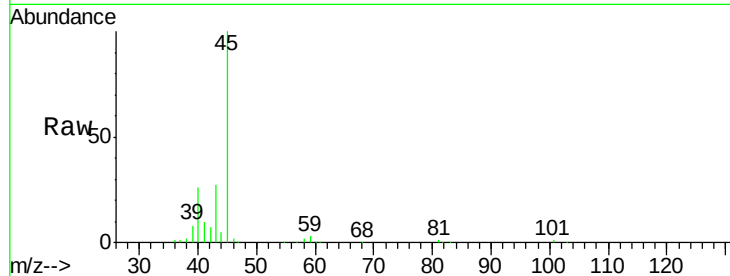
#19  
Isopropyl Alcohol  
Concen: 5.516 ppbv  
RT: 4.03 min Scan# 340  
Delta R.T. 0.01 min  
Lab File: VL033450.D  
Acq: 26 Mar 2019 00:07

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Tot Ion: 45 Resp: 264889  
Ion Ratio Lower Upper  
45 100  
58 0.0 1.4 2.2#

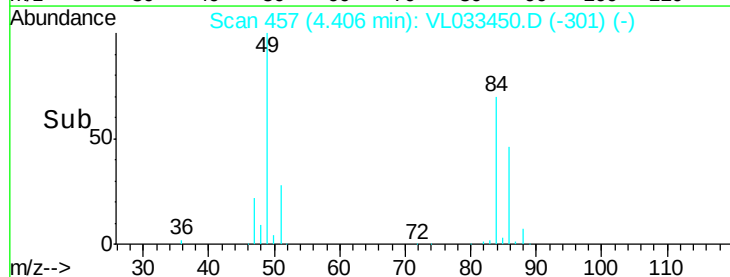
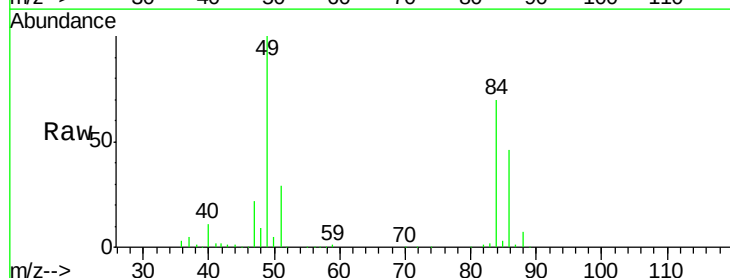
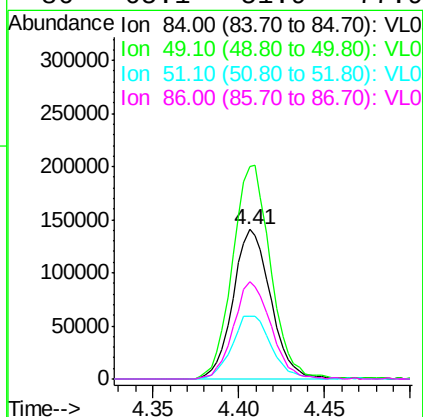
Manual Integrations  
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4/1/2019 1:56:44 AM

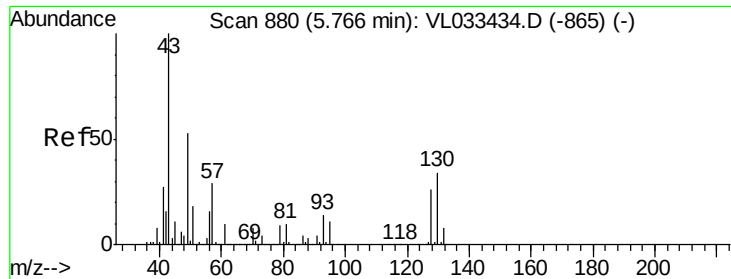


#20  
Methylene Chloride  
Concen: 6.694 ppbv  
RT: 4.41 min Scan# 457  
Delta R.T. 0.00 min  
Lab File: VL033450.D  
Acq: 26 Mar 2019 00:07

Tgt Ion: 84 Resp: 215750  
Ion Ratio Lower Upper  
84 100  
49 142.0 120.0 180.0  
51 41.7 36.7 55.1  
86 65.1 51.9 77.9







#25

Ethyl Acetate

Concen: 3.636 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

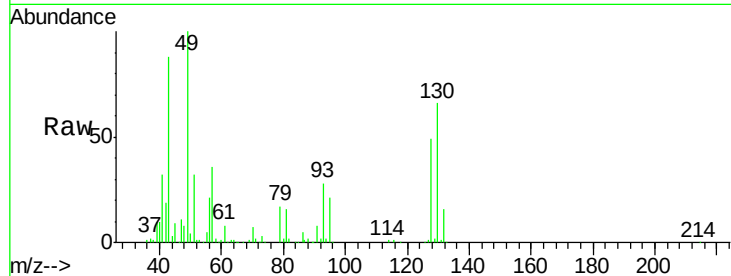
ClientSampleId :

IA-1DUP

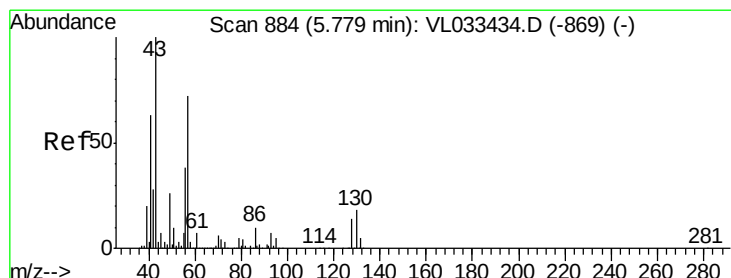
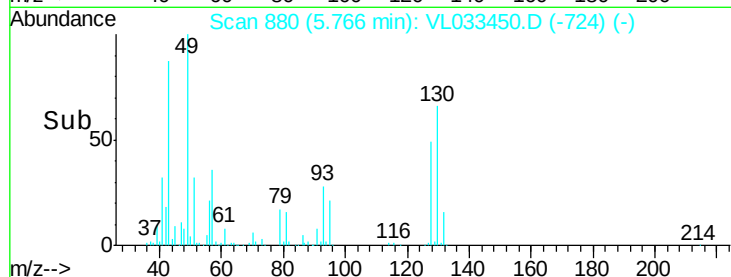
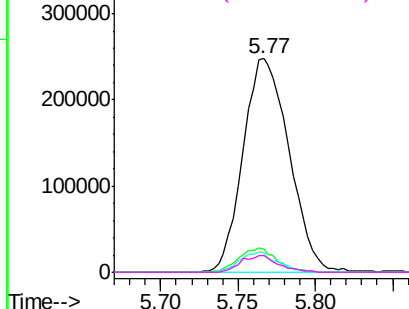
| Tot Ion | 43    | Resp  | 512296 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 43      | 100   |       |        |
| 45      | 9.5   | 7.8   | 11.6   |
| 61      | 7.6   | 7.3   | 10.9   |
| 70      | 6.3   | 5.6   | 8.4    |

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Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 45.10 (44.80 to 45.80): VL0  
Ion 61.10 (60.80 to 61.80): VL0  
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 4.526 ppbv

RT: 5.78 min Scan# 883

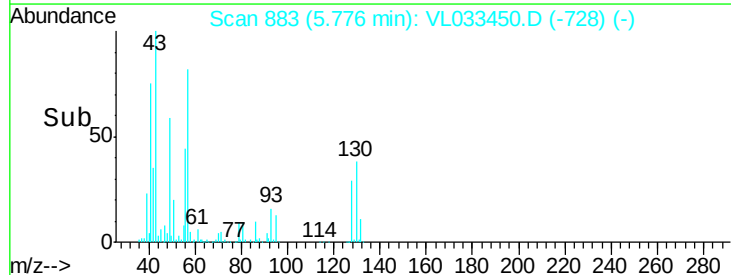
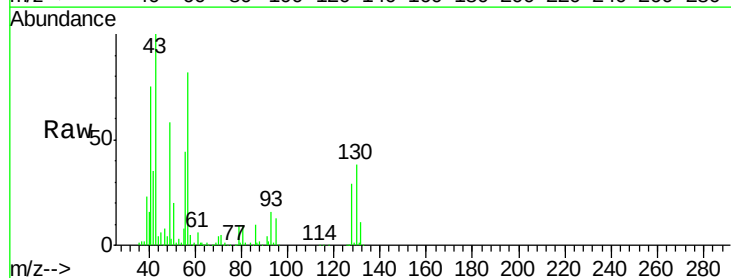
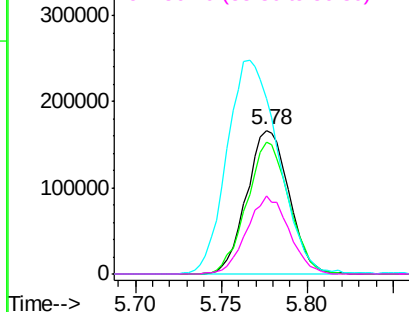
Delta R.T. -0.00 min

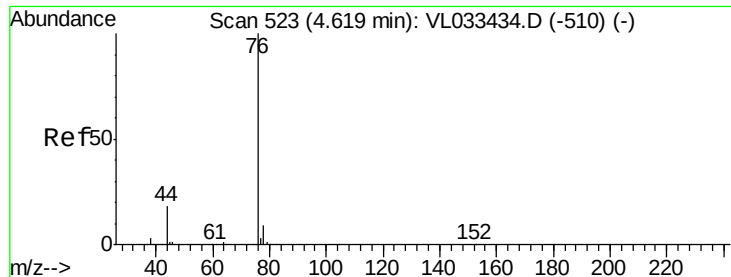
Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

| Tgt Ion | 57    | Resp  | 283519 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 57      | 100   |       |        |
| 41      | 92.0  | 70.7  | 106.1  |
| 43      | 182.4 | 182.6 | 274.0# |
| 56      | 54.3  | 42.0  | 63.0   |

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





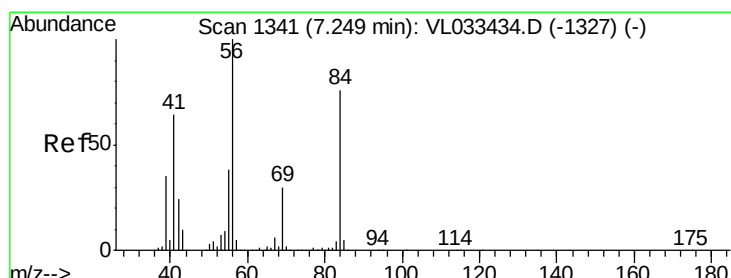
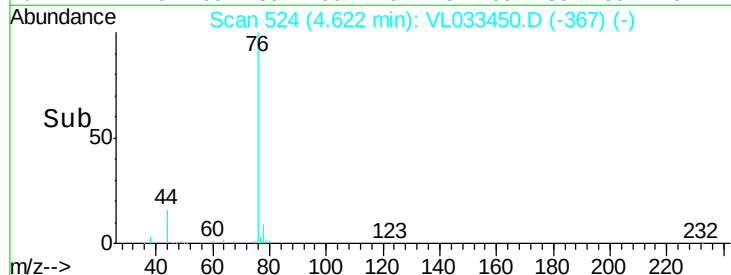
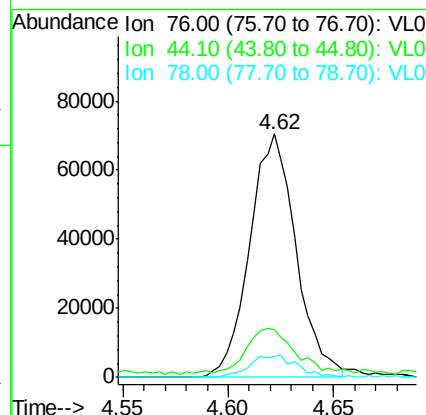
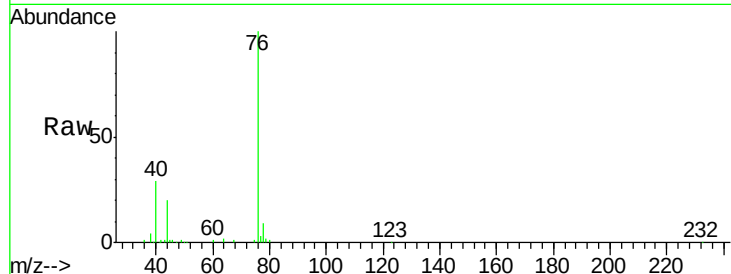
#27  
Carbon Disulfide  
Concen: 1.445 ppbv  
RT: 4.62 min Scan# 524  
Delta R.T. 0.00 min  
Lab File: VL033450.D  
Acq: 26 Mar 2019 00:07

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 28.3  | 14.8  | 22.2# |
| 78      | 9.5   | 7.6   | 11.4  |

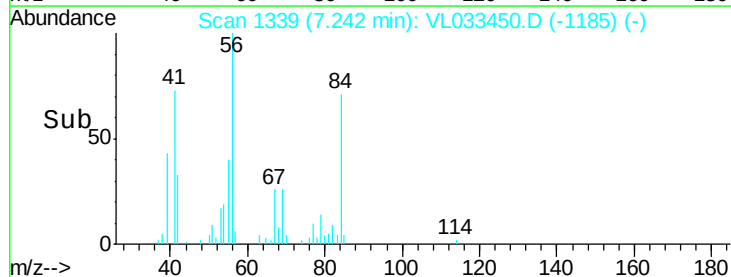
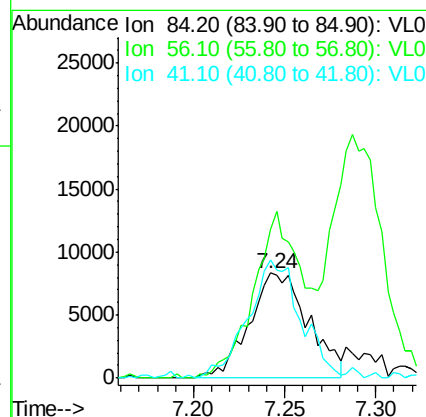
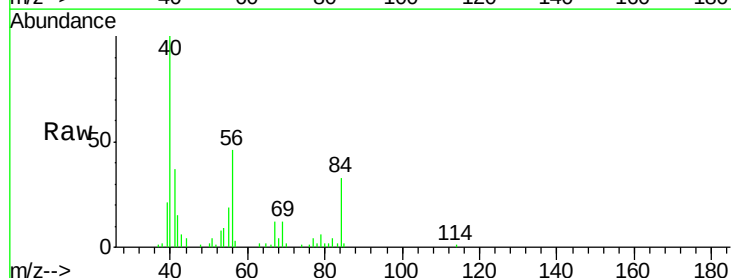
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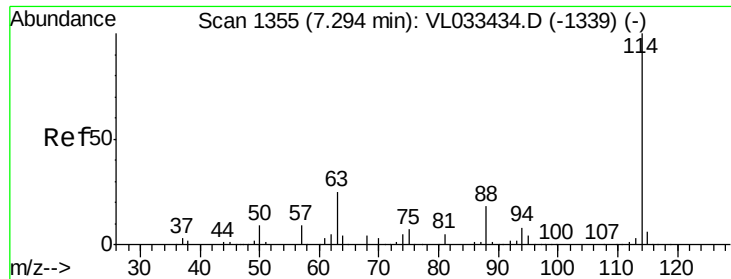
MMDadoda  
4/1/2019 1:56:44 AM



#30  
Cyclohexane  
Concen: 0.378 ppbv m  
RT: 7.24 min Scan# 1339  
Delta R.T. -0.01 min  
Lab File: VL033450.D  
Acq: 26 Mar 2019 00:07

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 56      | 125.6 | 109.7 | 164.5  |
| 41      | 103.6 | 68.2  | 102.2# |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion:114 Resp: 1475369

Ion Ratio Lower Upper

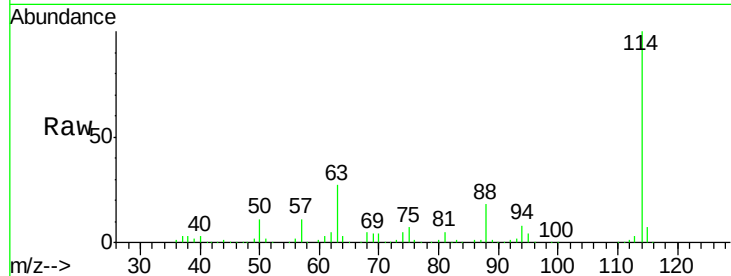
114 100

63 26.7 21.5 32.3

88 18.2 14.5 21.7

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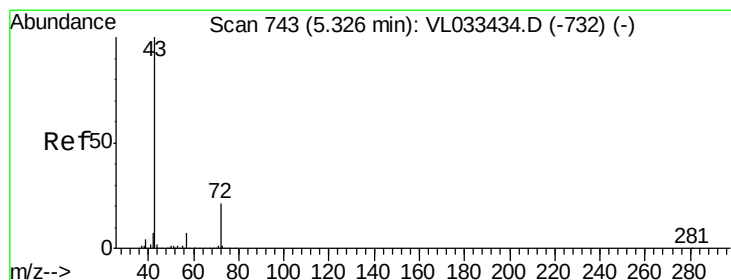
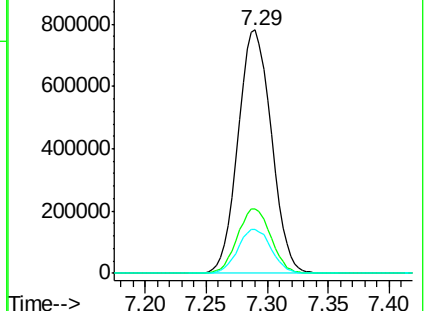
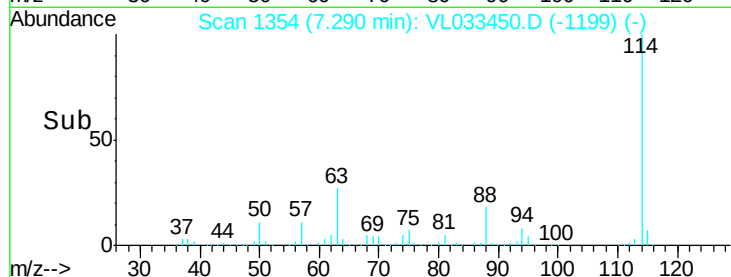
MMDadoda  
4/1/2019 1:56:44 AM



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: 1.391 ppbv

RT: 5.33 min Scan# 743

Delta R.T. 0.00 min

Lab File: VL033450.D

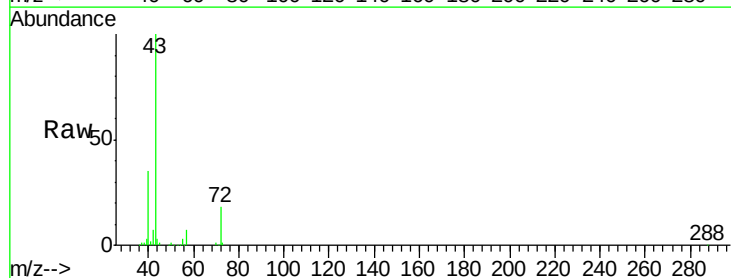
Acq: 26 Mar 2019 00:07

Tgt Ion: 43 Resp: 123279

Ion Ratio Lower Upper

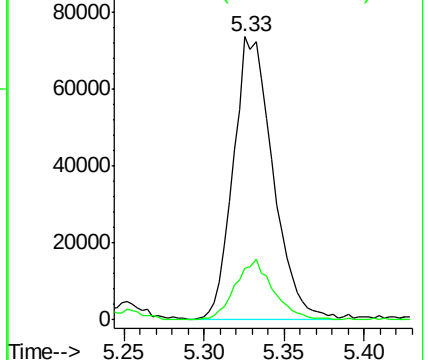
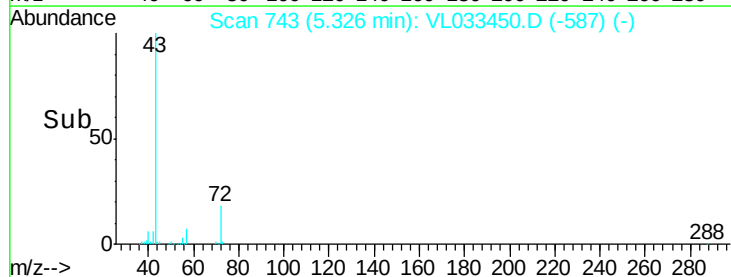
43 100

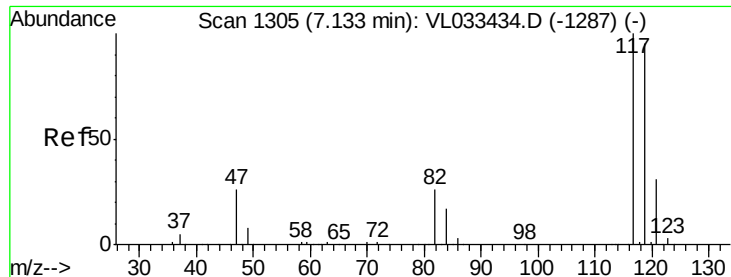
72 20.7 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.086 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

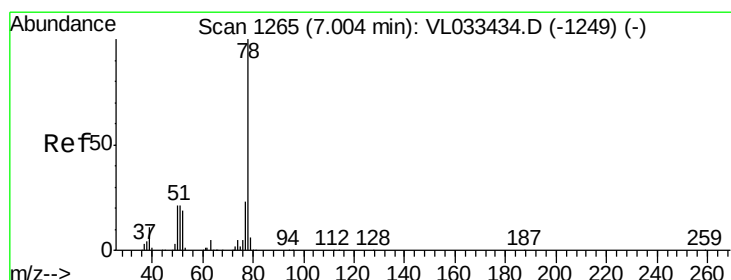
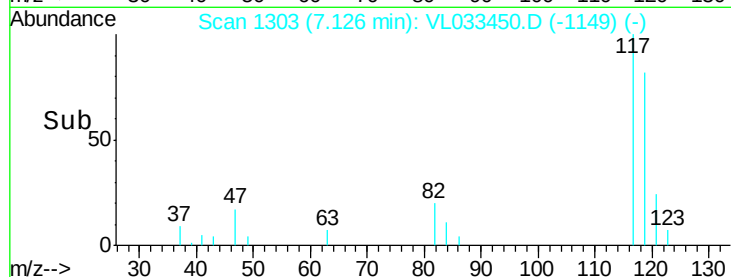
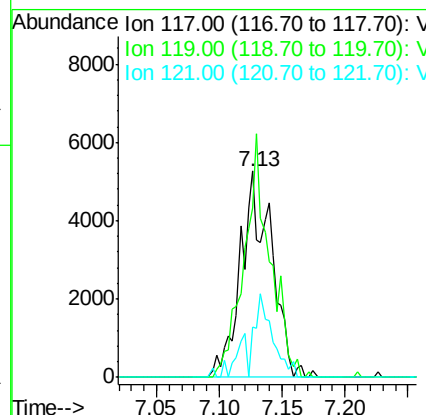
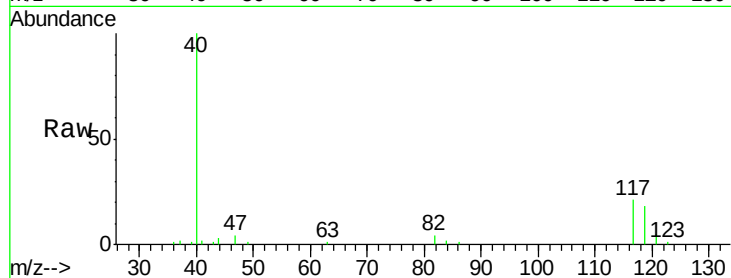
ClientSampleId :

IA-1DUP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 82.1  | 75.8  | 113.8 |
| 121     | 24.5  | 24.7  | 37.1# |

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#36

Benzene

Concen: 0.255 ppbv

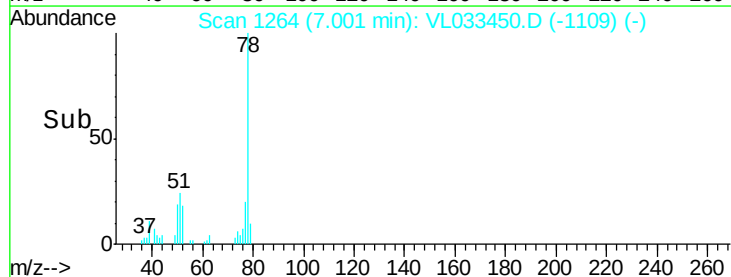
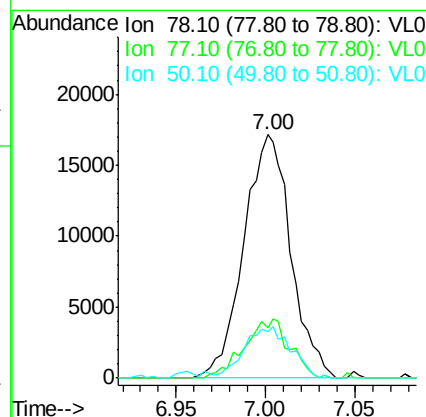
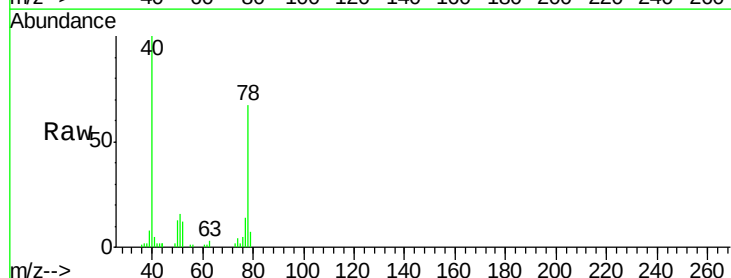
RT: 7.00 min Scan# 1264

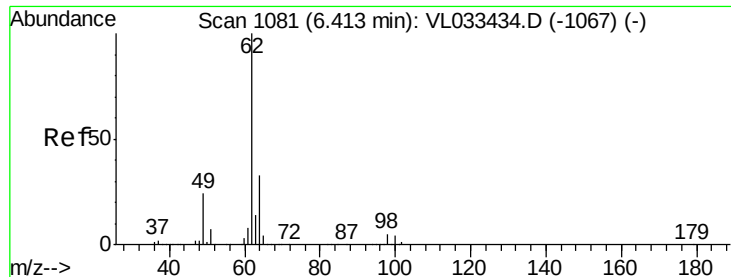
Delta R.T. -0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 20.4  | 18.1  | 27.1  |
| 50      | 19.1  | 16.7  | 25.1  |





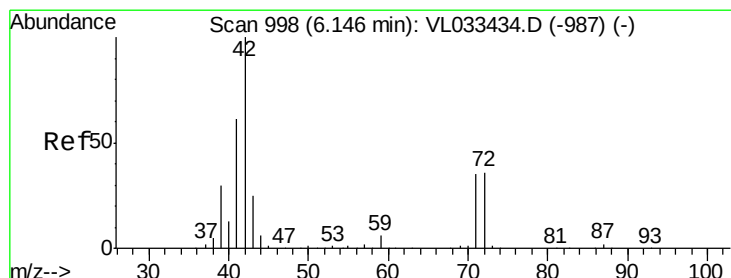
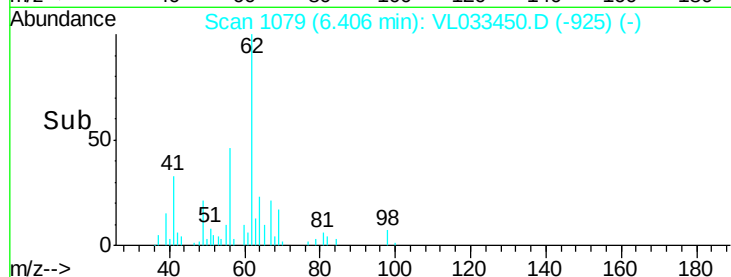
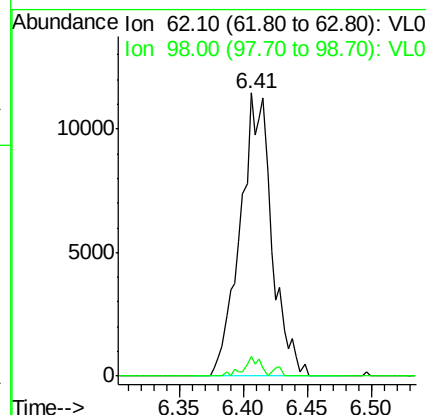
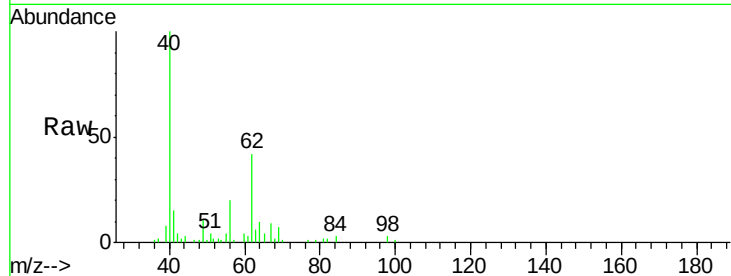
#37  
 1,2-Dichloroethane  
 Concen: 0.236 ppbv m  
 RT: 6.41 min Scan# 1079  
 Delta R.T. -0.01 min  
 Lab File: VL033450.D  
 Acq: 26 Mar 2019 00:07

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 IA-1DUP

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 62      | 100   | 19564 |       |       |
| 98      | 4.5   |       | 4.4   | 6.6   |

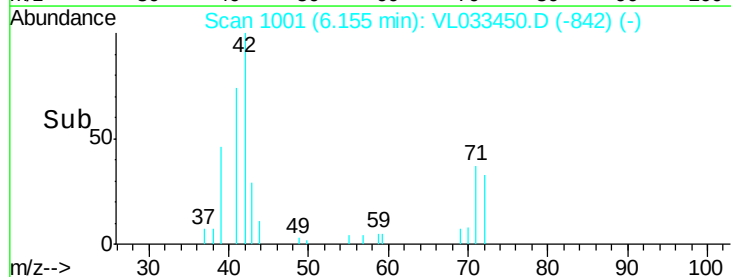
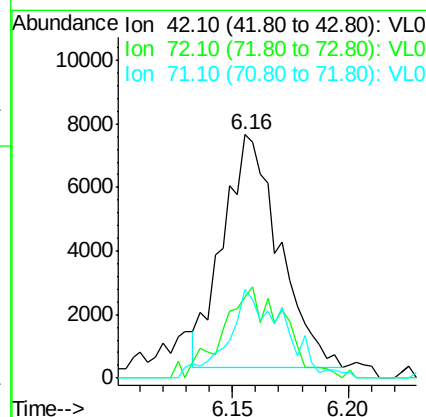
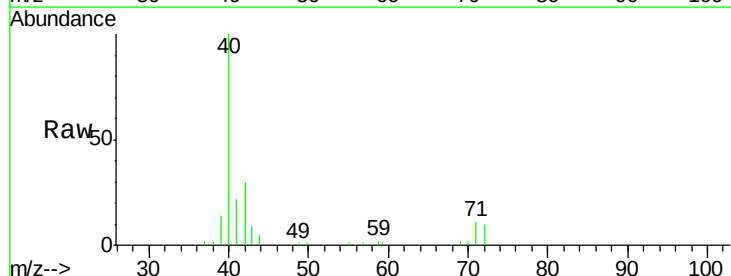
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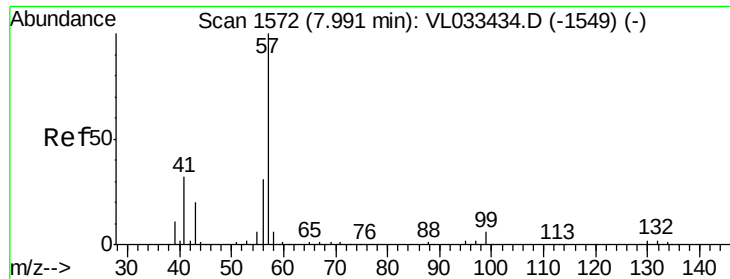
MMDadoda  
 4/1/2019 1:56:44 AM



#41  
 Tetrahydrofuran  
 Concen: 0.253 ppbv  
 RT: 6.16 min Scan# 1001  
 Delta R.T. 0.01 min  
 Lab File: VL033450.D  
 Acq: 26 Mar 2019 00:07

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 42      | 100   | 12327 |       |       |
| 72      | 43.0  |       | 30.2  | 45.2  |
| 71      | 38.4  |       | 29.4  | 44.2  |





#44

2,2,4-Trimethylpentane

Concen: 0.083 ppbv m

RT: 7.99 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

ClientSampled :

IA-1DUP

Tot Ion: 57 Resp: 17955

Ion Ratio Lower Upper

57 100

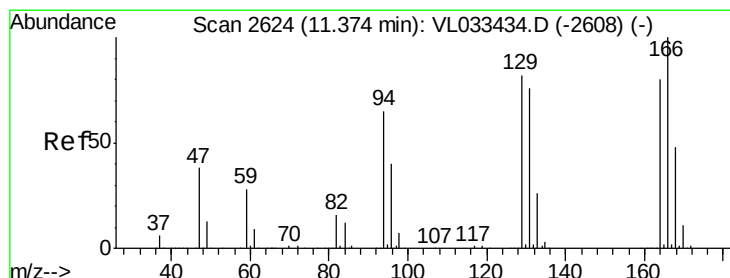
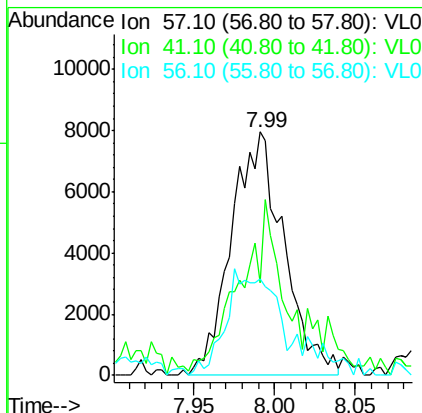
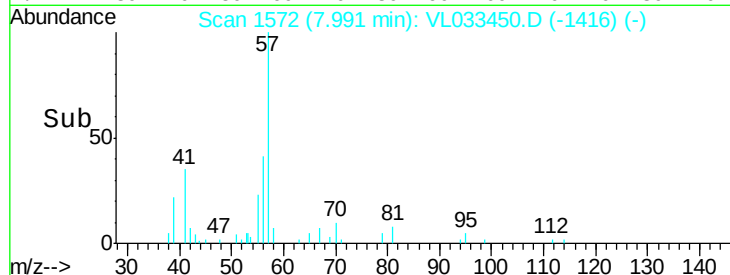
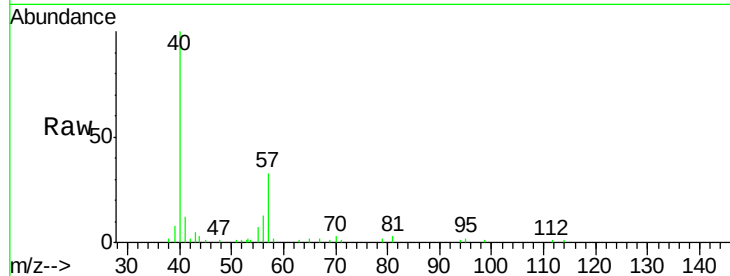
41 62.2 26.0 39.0#

56 49.9 24.6 37.0#

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#52

Tetrachloroethene

Concen: 0.070 ppbv m

RT: 11.38 min Scan# 2626

Delta R.T. 0.01 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Tgt Ion: 164 Resp: 3277

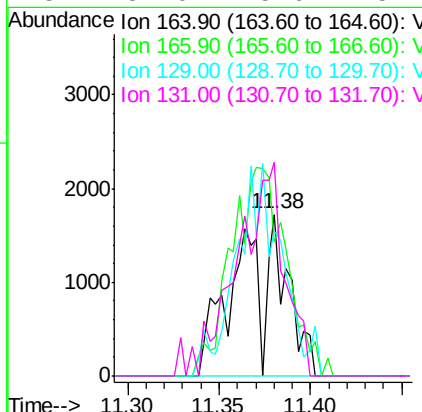
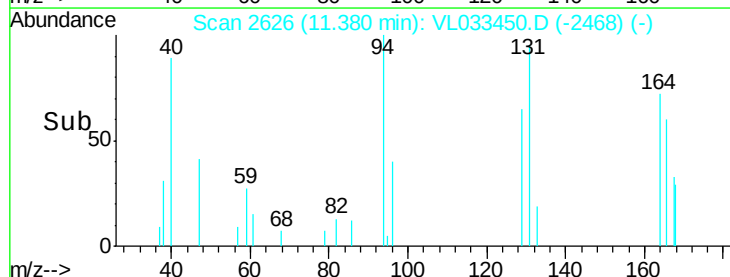
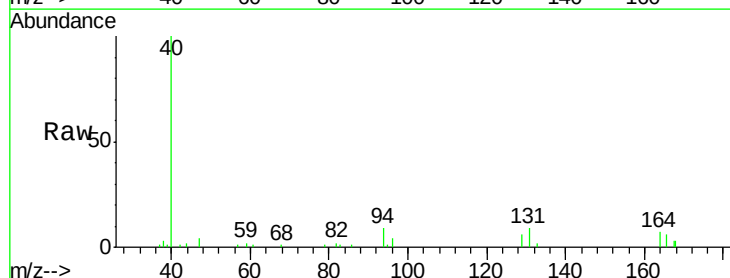
Ion Ratio Lower Upper

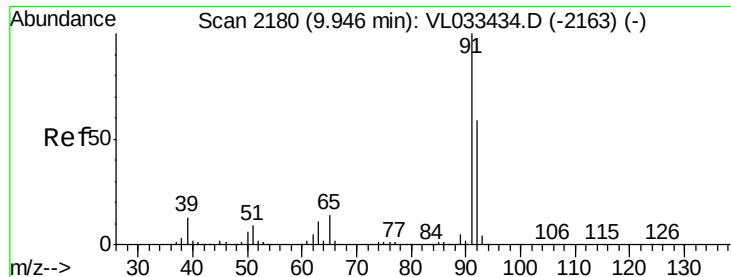
164 100

166 83.3 99.5 149.3#

129 89.5 81.4 122.2

131 132.0 75.6 113.4#





#53

Toluene

Concen: 14.572 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion: 91 Resp: 2096229

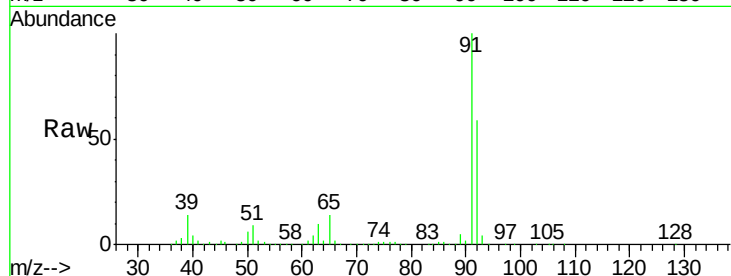
Ion Ratio Lower Upper

91 100

92 59.6 47.4 71.0

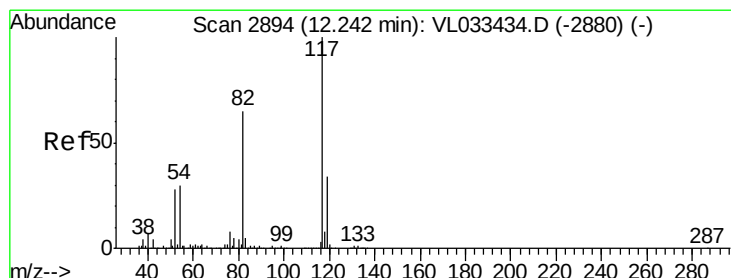
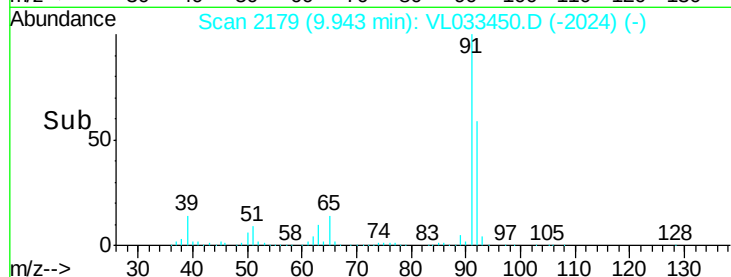
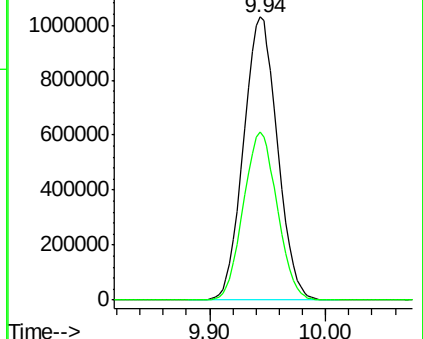
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

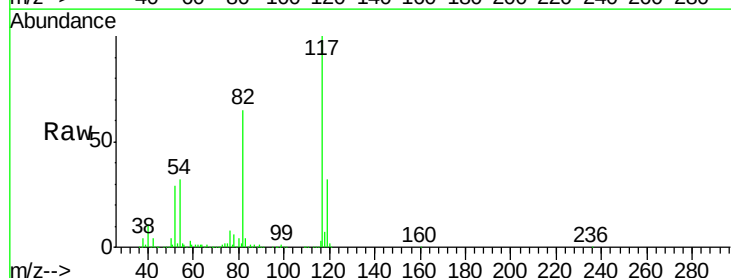
Tgt Ion: 117 Resp: 1583388

Ion Ratio Lower Upper

117 100

82 66.4 51.5 77.3

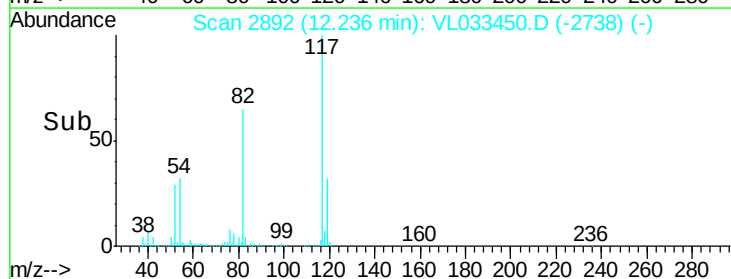
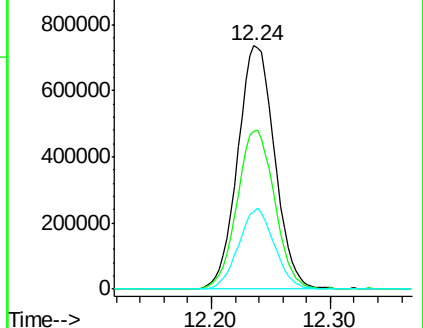
119 32.3 25.5 38.3

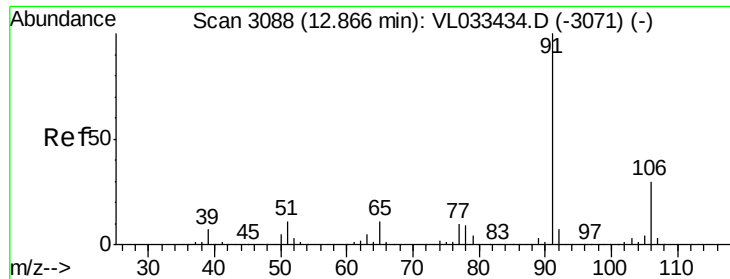


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.236 ppbv m

RT: 12.86 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL033450.D

Acq: 26 Mar 2019 00:07

Instrument :

MSVOA\_L

ClientSampleId :

IA-1DUP

Tot Ion: 91 Resp: 49993

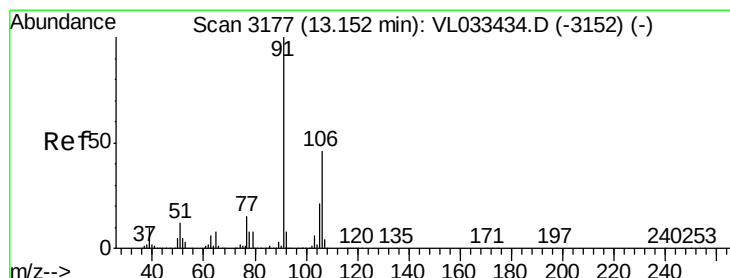
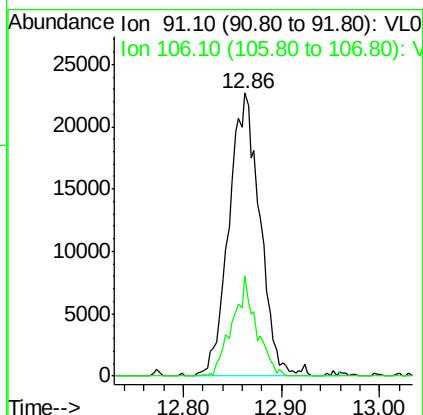
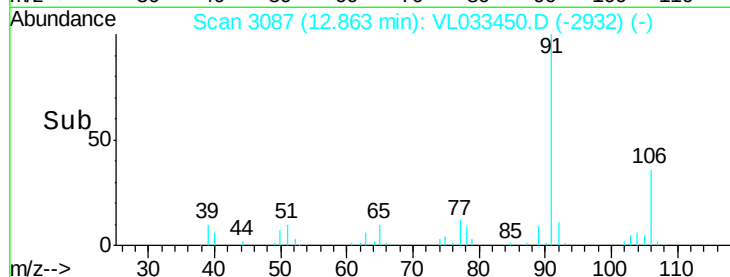
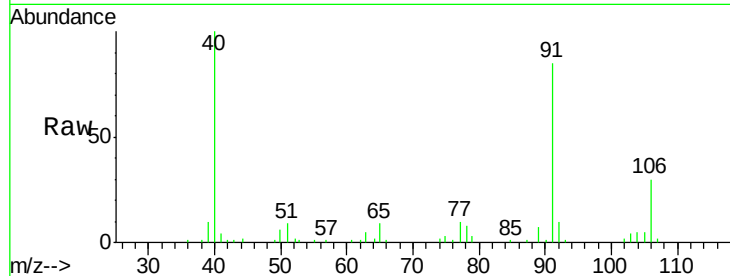
Ion Ratio Lower Upper

91 100

106 35.6 23.8 35.6

Manual Integrations  
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4/1/2019 1:56:44 AM



#59

m/p-Xylene

Concen: 0.590 ppbv m

RT: 13.12 min Scan# 3168

Delta R.T. -0.03 min

Lab File: VL033450.D

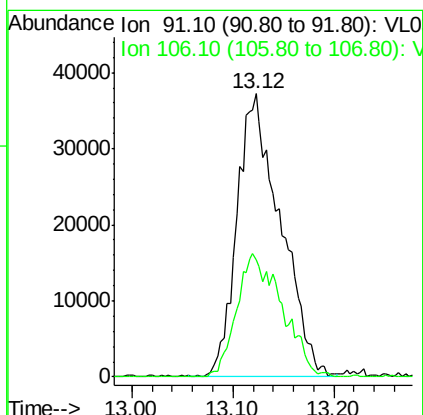
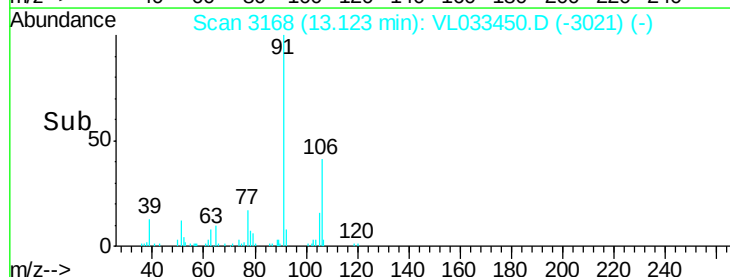
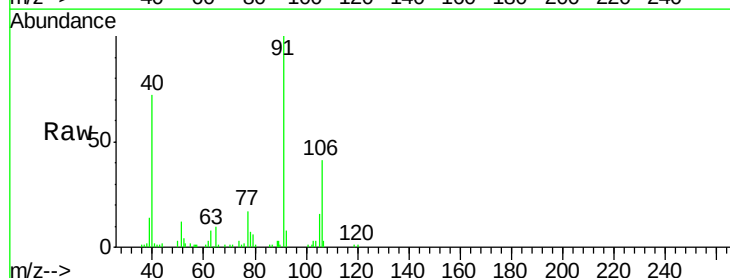
Acq: 26 Mar 2019 00:07

Tgt Ion: 91 Resp: 111457

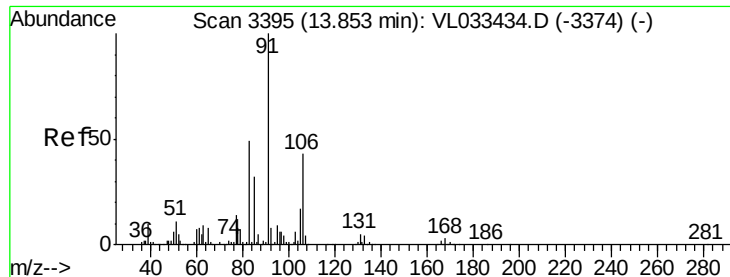
Ion Ratio Lower Upper

91 100

106 45.6 0.0 0.0#







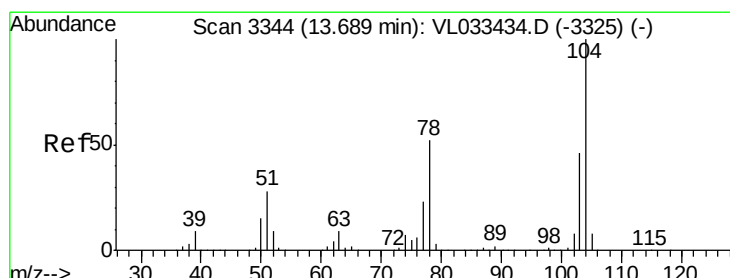
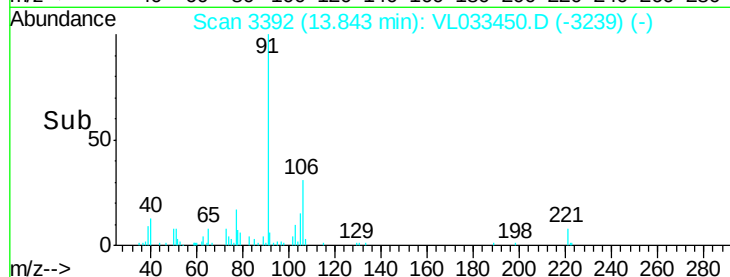
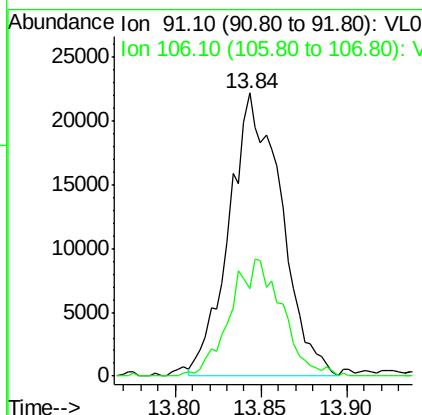
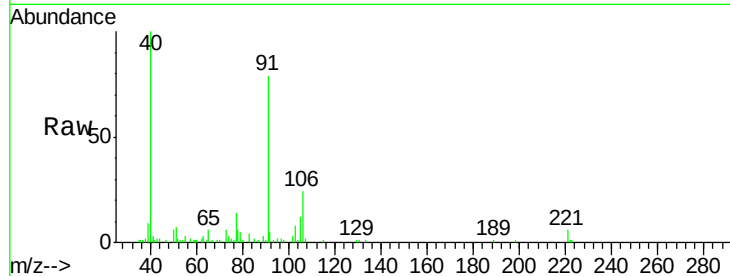
#60  
o-Xylene  
Concen: 0.256 ppbv  
RT: 13.84 min Scan# 3392  
Delta R.T. -0.01 min  
Lab File: VL033450.D  
Acq: 26 Mar 2019 00:07

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-1DUP

Tot Ion: 91 Resp: 46731  
Ion Ratio Lower Upper  
91 100  
106 41.0 21.4 64.3

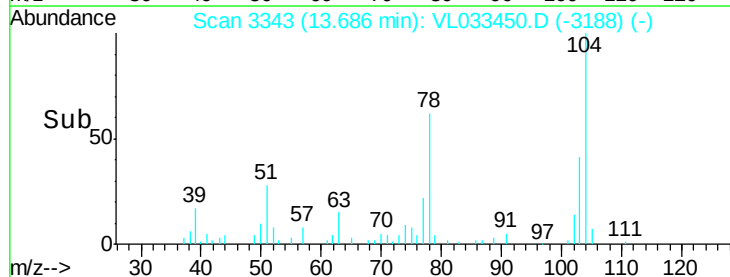
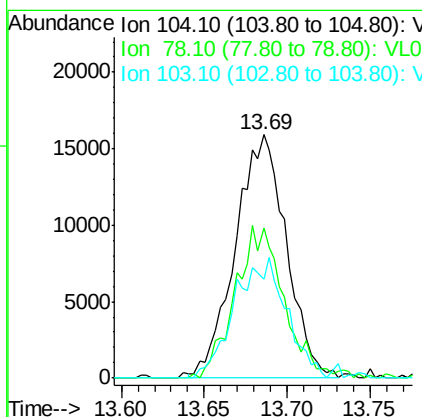
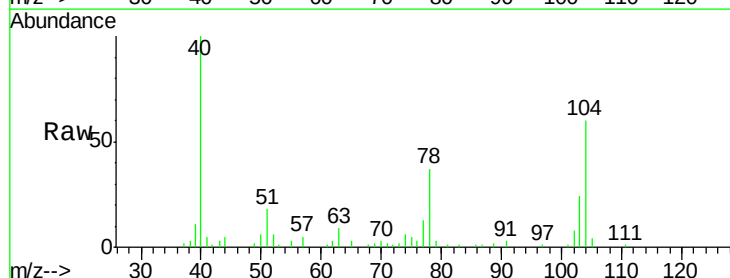
Manual Integrations  
APPROVED

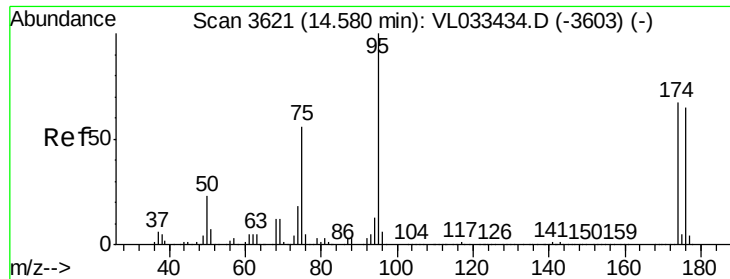
MMDadoda  
4/1/2019 1:56:44 AM



#61  
Styrene  
Concen: 0.272 ppbv  
RT: 13.69 min Scan# 3343  
Delta R.T. -0.00 min  
Lab File: VL033450.D  
Acq: 26 Mar 2019 00:07

Tgt Ion: 104 Resp: 34069  
Ion Ratio Lower Upper  
104 100  
78 60.5 43.2 64.8  
103 51.9 37.8 56.8





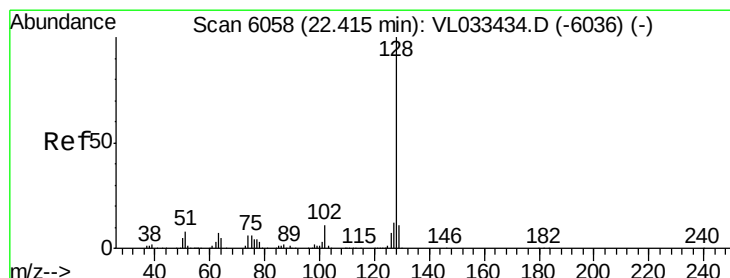
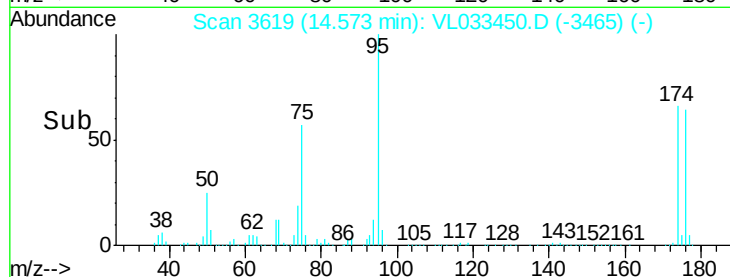
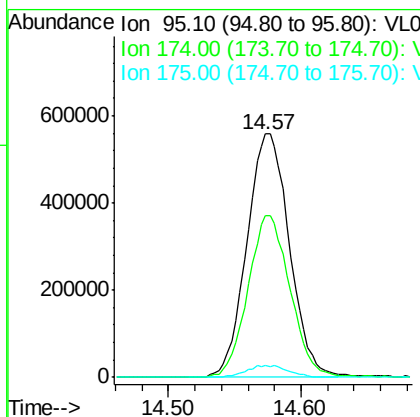
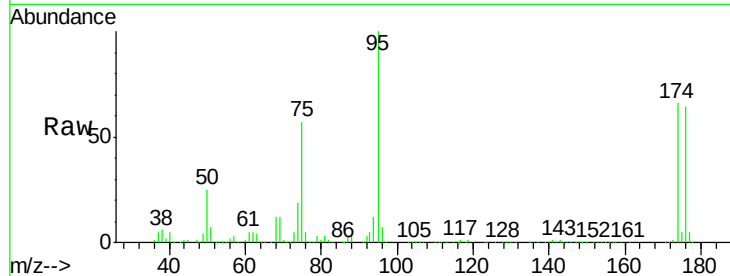
#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.013 ppbv  
 RT: 14.57 min Scan# 3619  
 Delta R.T. -0.01 min  
 Lab File: VL033450.D  
 Acq: 26 Mar 2019 00:07

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-1DUP

Tot Ion: 95 Resp: 1242929  
 Ion Ratio Lower Upper  
 95 100  
 174 66.5 52.9 79.3  
 175 4.8 3.8 5.6

Manual Integrations  
 APPROVED

MMDadoda  
 4/1/2019 1:56:44 AM



#79  
 Naphthalene  
 Concen: 0.073 ppbv m  
 RT: 22.42 min Scan# 6058  
 Delta R.T. 0.00 min  
 Lab File: VL033450.D  
 Acq: 26 Mar 2019 00:07

Tgt Ion: 128 Resp: 13232  
 Ion Ratio Lower Upper  
 128 100  
 127 13.5 9.8 14.8  
 129 9.8 8.6 12.8

