

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110718\  
 Data File : VL032717.D  
 Acq On : 7 Nov 2018 14:58  
 Operator : SY/AP  
 Sample : J5809-01DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LIHA-IA-DUP-110118DL

Manual Integrations  
 APPROVED

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 11/12/2018 12:30:36 PM

Quant Time: Nov 08 12:50:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Oct 25 2018  
 QLast Update : Thu Oct 25 05:15:43 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 1531319  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 3853692  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 3730304  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.59  | 95    | 2822553  | 10.16    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.60% |

| Target Compounds       | R.T. | QIon | Response | Conc    | Units | Ovalue |
|------------------------|------|------|----------|---------|-------|--------|
| 9) Propene             | 3.06 | 41   | 13443m   | 0.273   | ppbv  |        |
| 13) Ethanol            | 3.66 | 45   | 1911641  | 135.713 | ppbv  | 98     |
| 15) Acetone            | 3.92 | 43   | 216104m  | 1.528   | ppbv  |        |
| 17) tert-Butyl alcohol | 4.37 | 59   | 21827m   | 0.525   | ppbv  |        |
| 19) Isopropyl Alcohol  | 4.04 | 45   | 147359   | 1.463   | ppbv  | 100    |
| 53) Toluene            | 9.96 | 91   | 55969m   | 0.156   | ppbv  |        |

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

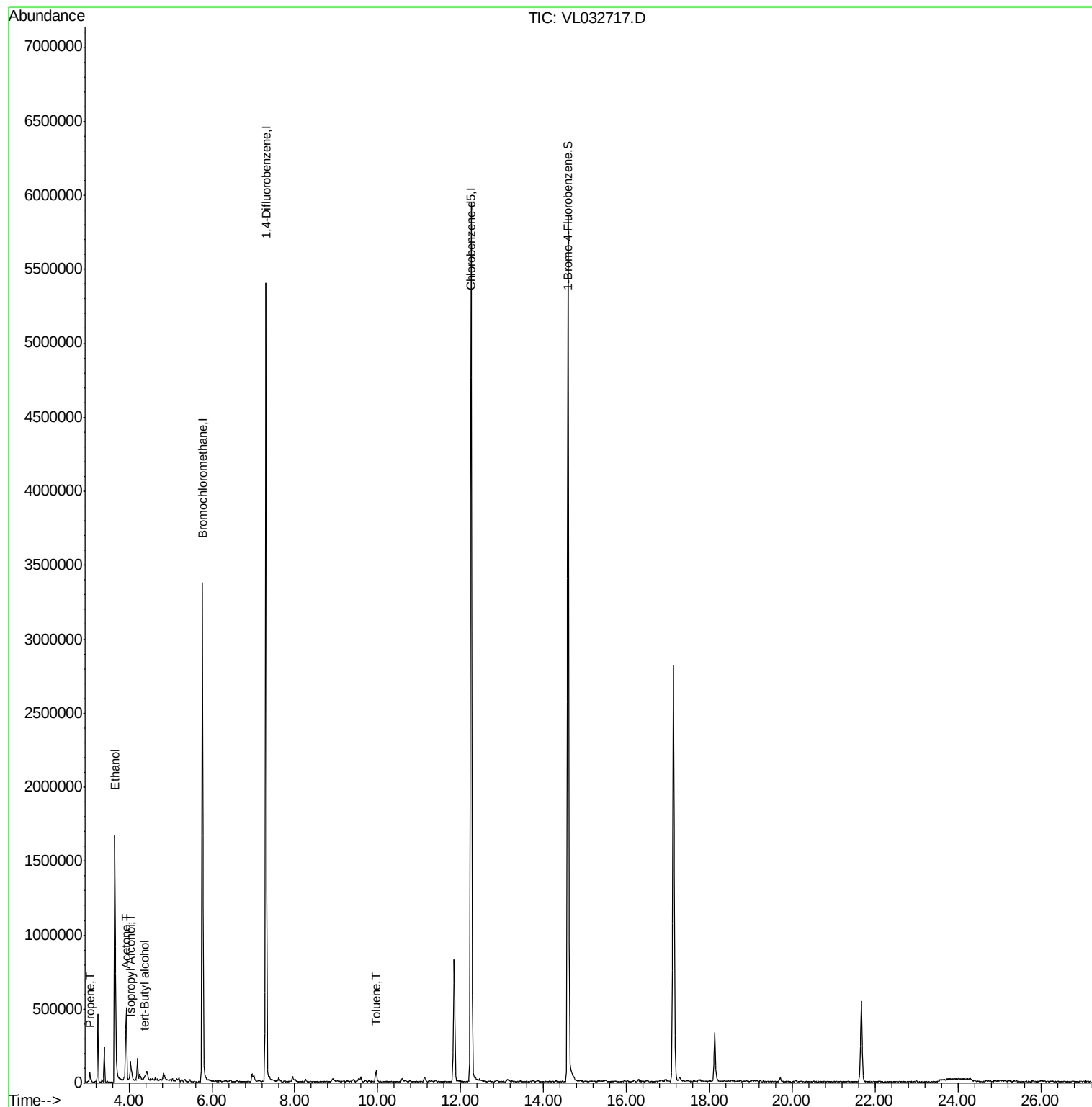
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110718\  
Data File : VL032717.D  
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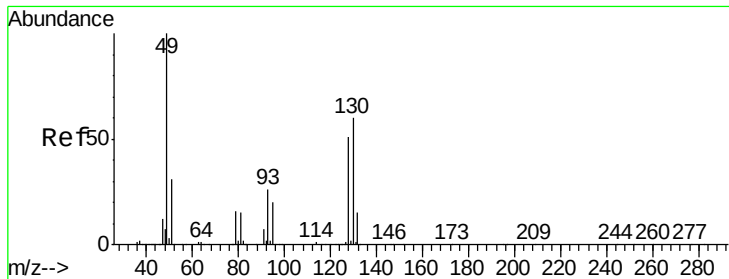
Instrument :  
MSVOA\_L  
ClientSampleId :  
LIHA-IA-DUP-110118DL

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Quant Time: Nov 08 12:50:02 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Oct  
QLast Update : Thu Oct 25 05:15:43 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL032717.D

Acq: 7 Nov 2018 14:58

Instrument :

MSVOA\_L

ClientSampleId :

LIHA-IA-DUP-110118DL

Tot Ion: 49 Resp: 1531319

Ion Ratio Lower Upper

49 100

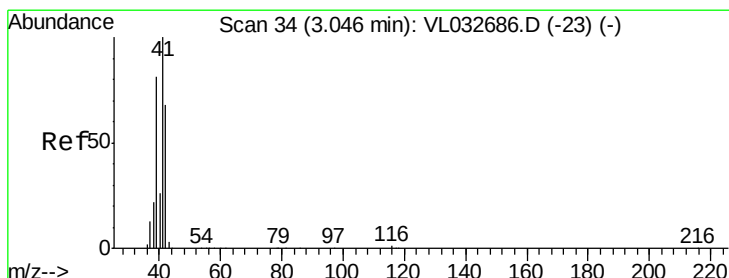
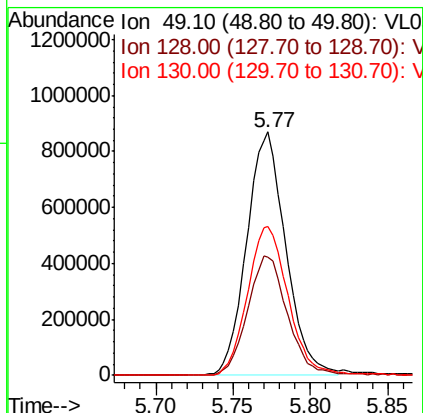
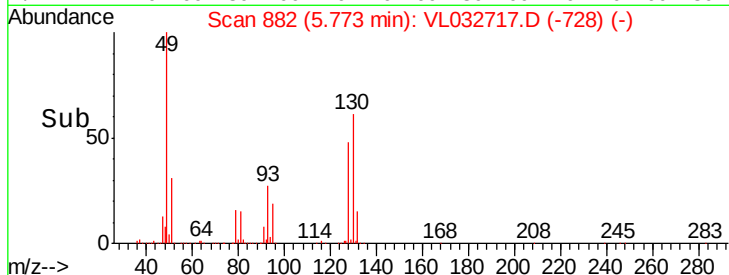
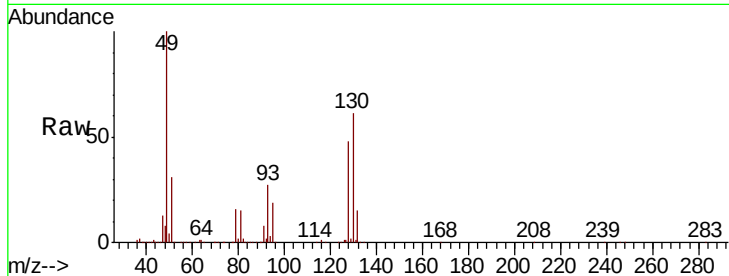
128 50.7 22.3 66.8

130 63.9 28.4 85.3

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#9

Propene

Concen: 0.273 ppbv m

RT: 3.06 min Scan# 37

Delta R.T. 0.01 min

Lab File: VL032717.D

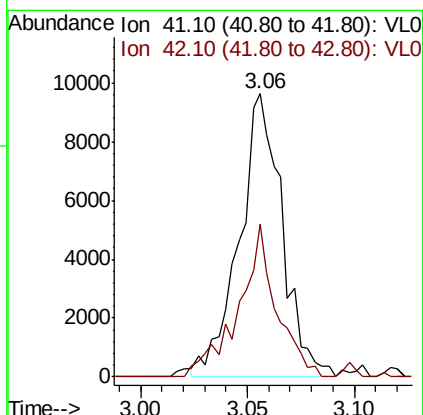
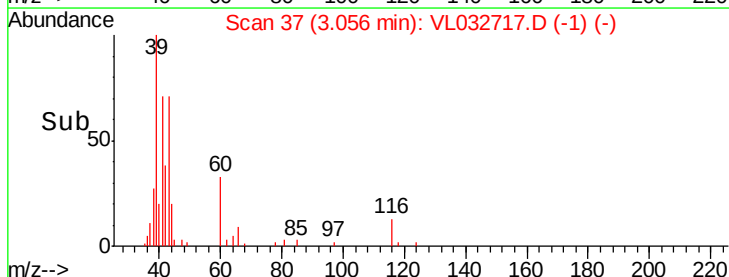
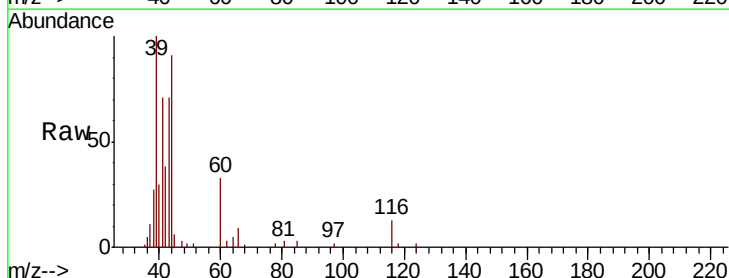
Acq: 7 Nov 2018 14:58

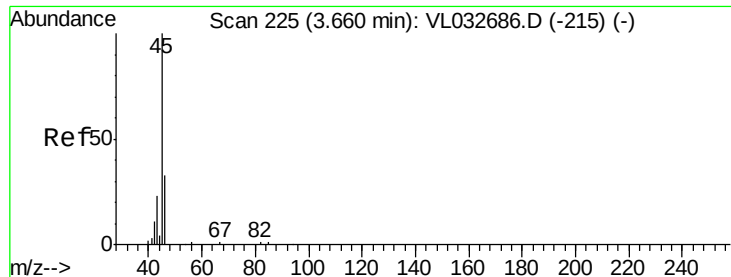
Tgt Ion: 41 Resp: 13443

Ion Ratio Lower Upper

41 100

42 585.9 55.4 83.0#





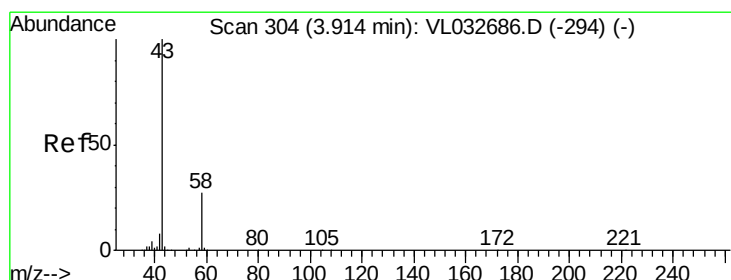
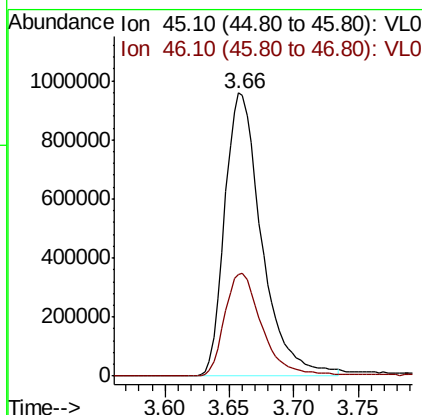
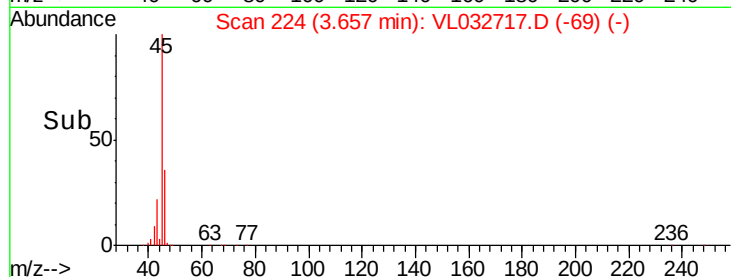
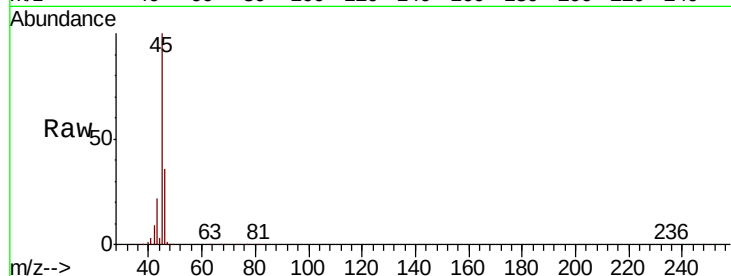
#13  
Ethanol  
Concen: 135.713 ppbv  
RT: 3.66 min Scan# 224  
Delta R.T. -0.00 min  
Lab File: VL032717.D  
Acq: 7 Nov 2018 14:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
LIHA-IA-DUP-110118DL

Tot Ion: 45 Resp: 1911641  
Ion Ratio Lower Upper  
45 100  
46 37.4 15.4 61.8

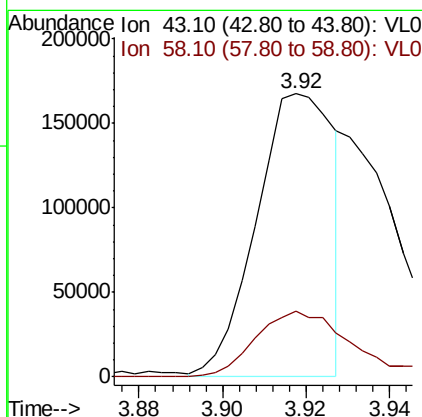
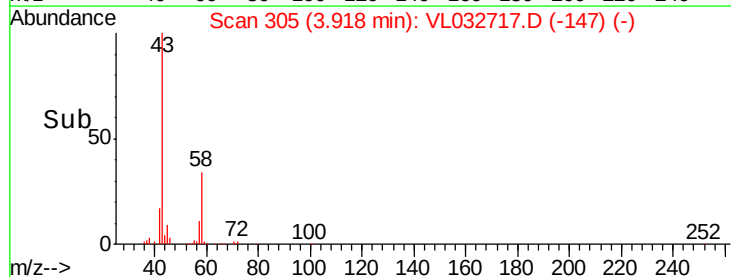
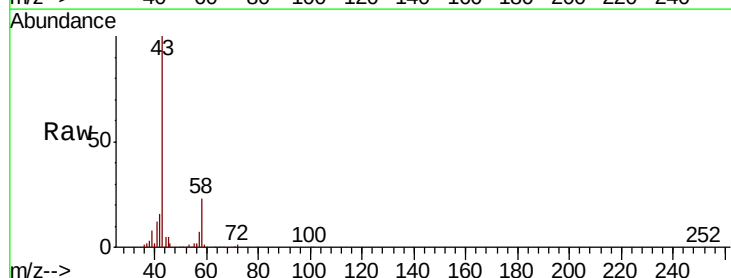
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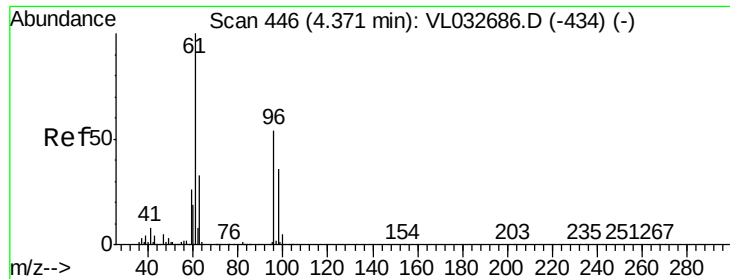
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#15  
Acetone  
Concen: 1.528 ppbv m  
RT: 3.92 min Scan# 305  
Delta R.T. 0.01 min  
Lab File: VL032717.D  
Acq: 7 Nov 2018 14:58

Tgt Ion: 43 Resp: 216104  
Ion Ratio Lower Upper  
43 100  
58 29.3 22.1 33.1





#17

tert-Butyl alcohol

Concen: 0.525 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.00 min

Lab File: VL032717.D

Acq: 7 Nov 2018 14:58

Tot Ion: 59 Resp: 21827

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0

Instrument :

MSVOA\_L

ClientSampleId :

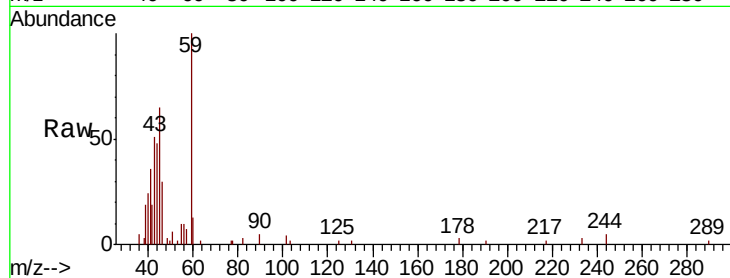
LIHA-IA-DUP-110118DL

Manual Integrations

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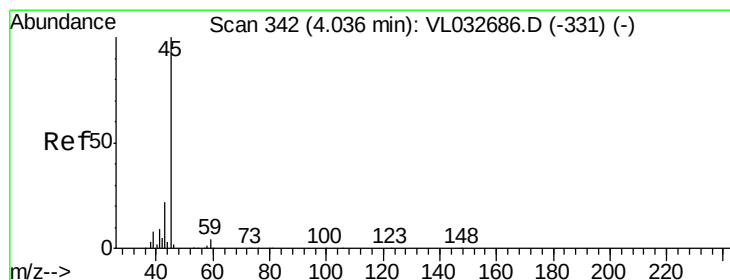
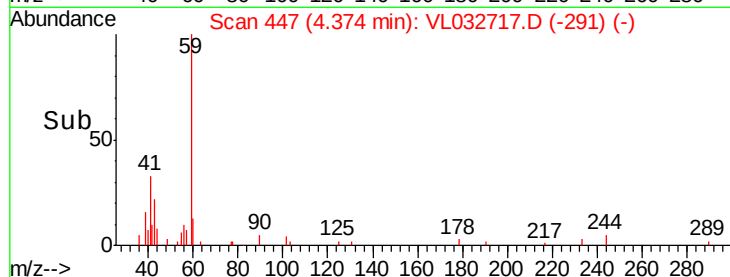
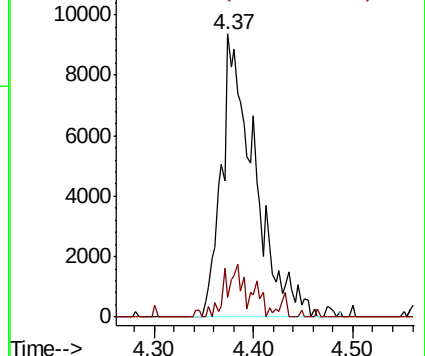
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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 1.463 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.00 min

Lab File: VL032717.D

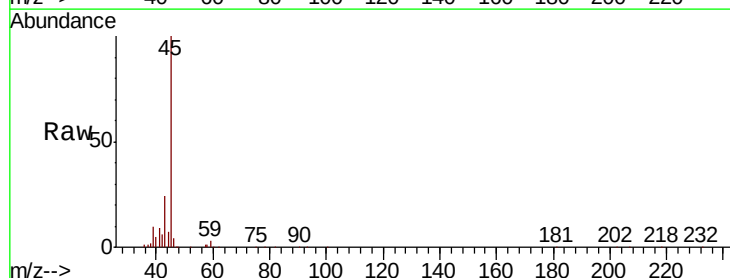
Acq: 7 Nov 2018 14:58

Tgt Ion: 45 Resp: 147359

Ion Ratio Lower Upper

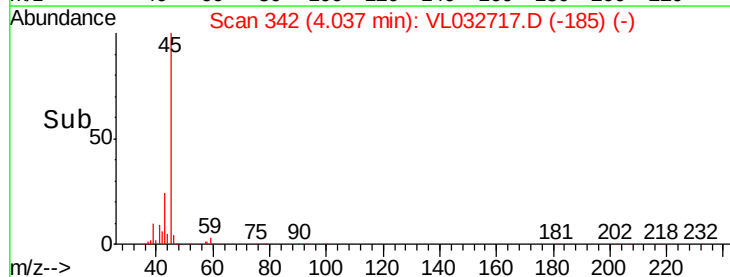
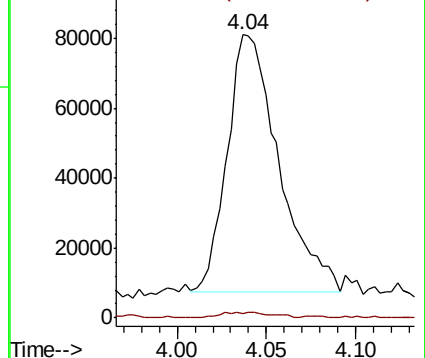
45 100

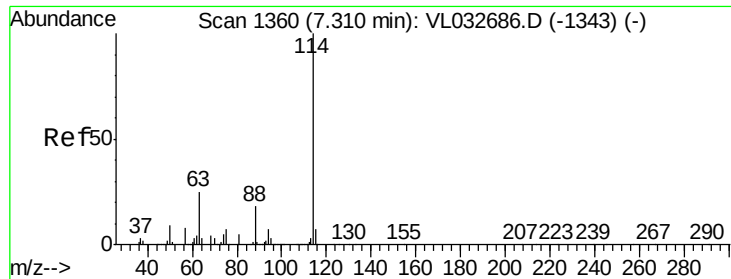
58 2.5 2.0 3.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





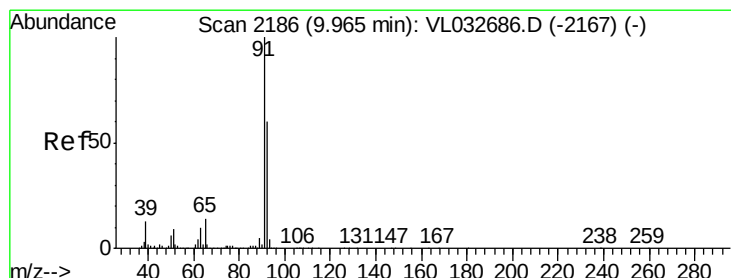
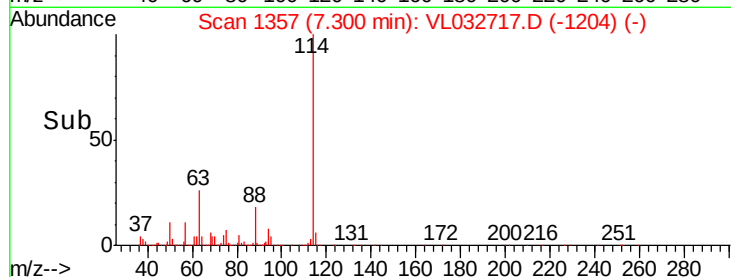
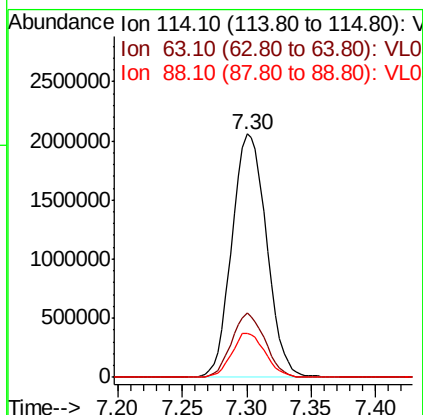
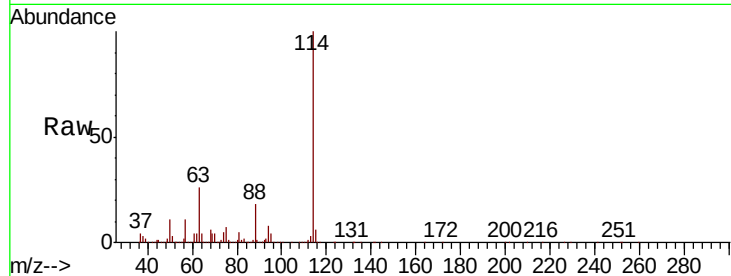
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.30 min Scan# 1357  
 Delta R.T. -0.01 min  
 Lab File: VL032717.D  
 Acq: 7 Nov 2018 14:58

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 LIHA-IA-DUP-110118DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 25.5  | 21.7  | 32.5  |
| 88      | 17.6  | 14.9  | 22.3  |

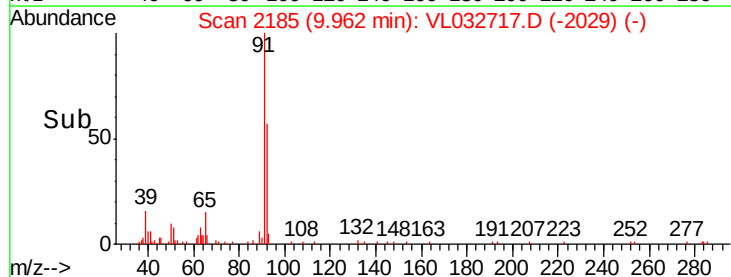
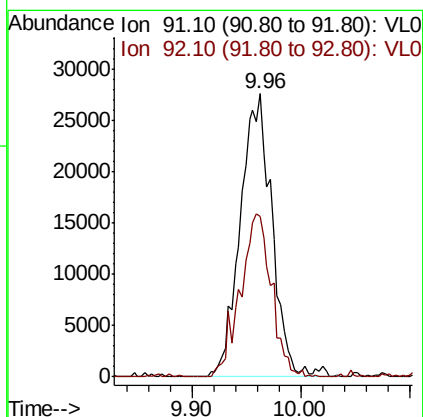
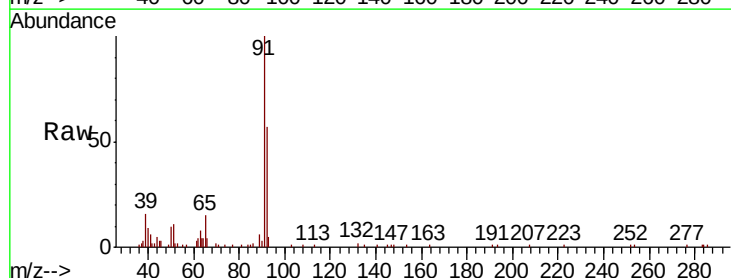
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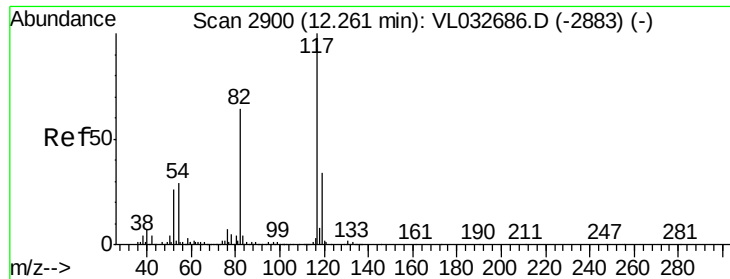
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#53  
 Toluene  
 Concen: 0.156 ppbv m  
 RT: 9.96 min Scan# 2185  
 Delta R.T. 0.00 min  
 Lab File: VL032717.D  
 Acq: 7 Nov 2018 14:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 0.0   | 48.4  | 72.6# |





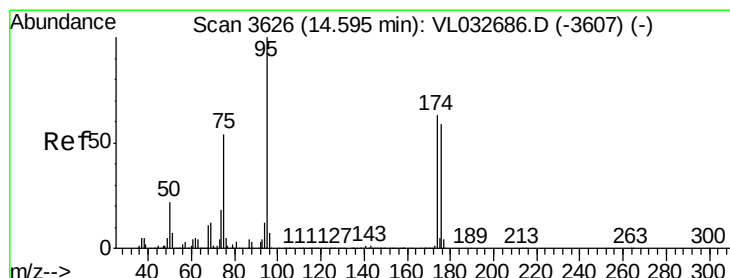
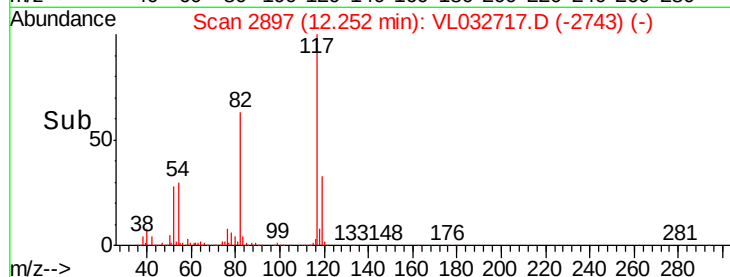
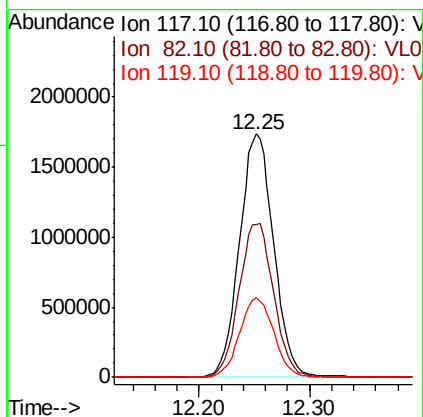
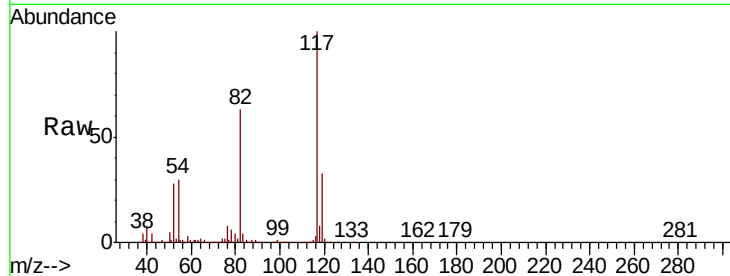
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.25 min Scan# 2897  
Delta R.T. -0.01 min  
Lab File: VL032717.D  
Acq: 7 Nov 2018 14:58

Instrument :  
MSVOA\_L  
ClientSampleId :  
LIHA-IA-DUP-110118DL

Tot Ion:117 Resp: 3730304  
Ion Ratio Lower Upper  
117 100  
82 64.5 52.7 79.1  
119 32.8 26.7 40.1

Manual Integrations  
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#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.162 ppbv  
RT: 14.59 min Scan# 3624  
Delta R.T. -0.00 min  
Lab File: VL032717.D  
Acq: 7 Nov 2018 14:58

Tgt Ion: 95 Resp: 2822553  
Ion Ratio Lower Upper  
95 100  
174 64.4 46.0 69.0  
175 4.7 3.4 5.0

