

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\  
 Data File : VL032542.D  
 Acq On : 25 Sep 2018 12:55  
 Operator : SY/AP  
 Sample : J5034-07  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-INF1-092018

Manual Integrations  
 APPROVED

apatel  
 9/26/2018 5:04:06 PM

Quant Time: Sep 25 15:50:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Tue Sep 25 2018  
 QLast Update : Tue Sep 25 05:17:15 2018  
 Response via : Initial Calibration

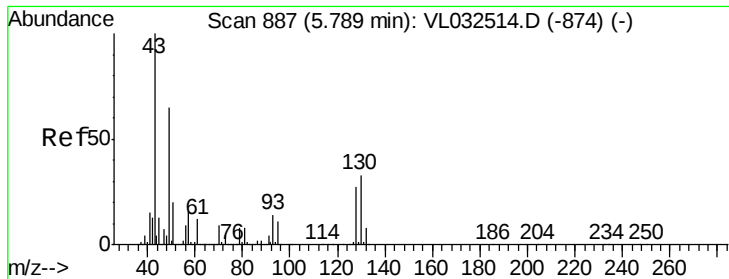
| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.79  | 49   | 1470160  | 10.00 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 7.33  | 114  | 3183325  | 10.00 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 12.27 | 117  | 3141931  | 10.00 | ppbv  | -0.02    |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------|--------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 14.61  | 95    | 2357622  | 9.95     | ppbv | -0.03  |          |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.50% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.09  | 85   | 34770    | 0.256  | ppbv   | 98     |
| 3) Chlorodifluoromethane       | 3.03  | 51   | 220058   | 1.800  | ppbv # | 92     |
| 4) Chloromethane               | 3.19  | 50   | 217813   | 3.055  | ppbv   | 98     |
| 5) Vinyl Chloride              | 3.31  | 62   | 237067   | 3.291  | ppbv   | 97     |
| 7) Chloroethane                | 3.62  | 64   | 375738   | 14.639 | ppbv   | 98     |
| 9) Propene                     | 3.05  | 41   | 112175   | 2.115  | ppbv   | 89     |
| 11) Trichlorofluoromethane     | 4.03  | 101  | 191749   | 1.186  | ppbv   | 89     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.57  | 101  | 2061159  | 15.599 | ppbv   | 100    |
| 13) Ethanol                    | 3.67  | 45   | 62021    | 3.890  | ppbv   | 93     |
| 15) Acetone                    | 3.93  | 43   | 1539684  | 11.931 | ppbv   | 99     |
| 17) tert-Butyl alcohol         | 4.39  | 59   | 128353   | 7.915  | ppbv # | 100    |
| 18) 1,1-Dichloroethene         | 4.37  | 96   | 51200    | 0.827  | ppbv   | 85     |
| 19) Isopropyl Alcohol          | 4.05  | 45   | 34142m   | 0.380  | ppbv   |        |
| 20) Methylene Chloride         | 4.43  | 84   | 376855   | 6.031  | ppbv   | 93     |
| 22) trans-1,2-Dichloroethene   | 4.99  | 96   | 47834    | 0.820  | ppbv   | 92     |
| 24) 1,1-Dichloroethane         | 5.12  | 63   | 13684338 | 72.064 | ppbv   | 96     |
| 26) Hexane                     | 5.81  | 57   | 211550   | 1.496  | ppbv # | 44     |
| 27) Carbon Disulfide           | 4.64  | 76   | 25106    | 0.165  | ppbv # | 65     |
| 29) Chloroform                 | 5.88  | 83   | 40748m   | 0.188  | ppbv   |        |
| 31) cis-1,2-Dichloroethene     | 5.67  | 61   | 8415774  | 62.474 | ppbv   | 91     |
| 32) 1,1,1-Trichloroethane      | 6.66  | 97   | 14890907 | 64.387 | ppbv   | 97     |
| 34) 2-Butanone                 | 5.37  | 43   | 192035   | 1.013  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.16  | 117  | 14851m   | 0.067  | ppbv   |        |
| 36) Benzene                    | 7.04  | 78   | 673740   | 2.619  | ppbv   | 100    |
| 38) Trichloroethene            | 8.00  | 130  | 9534337  | 96.824 | ppbv   | 97     |
| 41) Tetrahydrofuran            | 6.20  | 42   | 22306    | 0.217  | ppbv # | 89     |
| 44) 2,2,4-Trimethylpentane     | 8.03  | 57   | 62271    | 0.124  | ppbv # | 65     |
| 47) 1,1,2-Trichloroethane      | 9.65  | 97   | 39696    | 0.308  | ppbv   | 97     |
| 52) Tetrachloroethene          | 11.41 | 164  | 593327   | 6.624  | ppbv   | 98     |
| 53) Toluene                    | 9.98  | 91   | 376607m  | 1.201  | ppbv   |        |
| 62) Isopropylbenzene           | 14.86 | 105  | 117088   | 0.251  | ppbv   | 99     |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

Instrument :

MSVOA\_L

ClientSampleId :

SVE-INF1-092018

Tot Ion: 49 Resp: 1470160

Ion Ratio Lower Upper

49 100

128 42.9 20.7 62.1

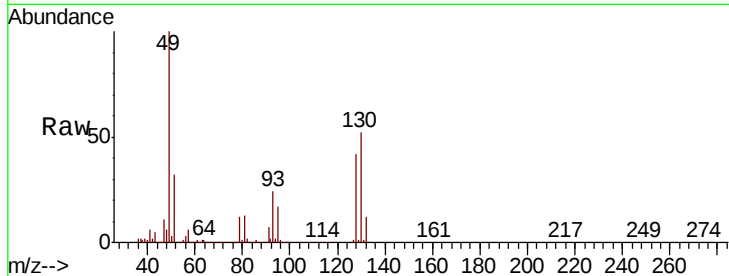
130 52.8 26.6 79.7

Manual Integrations

APPROVED

apatel

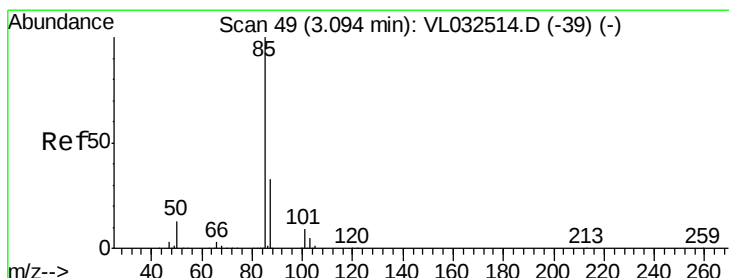
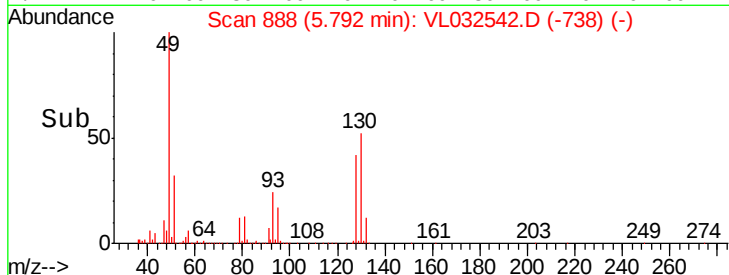
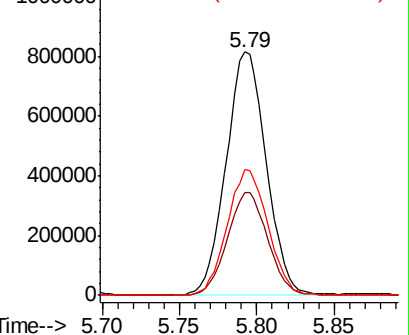
9/26/2018 5:04:06 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.256 ppbv

RT: 3.09 min Scan# 49

Delta R.T. -0.01 min

Lab File: VL032542.D

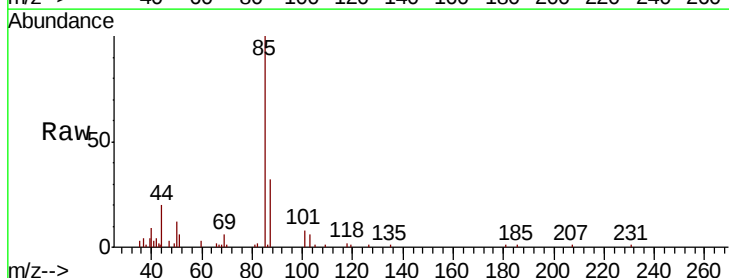
Acq: 25 Sep 2018 12:55

Tgt Ion: 85 Resp: 34770

Ion Ratio Lower Upper

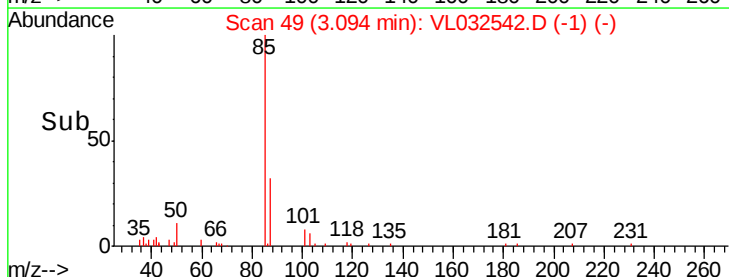
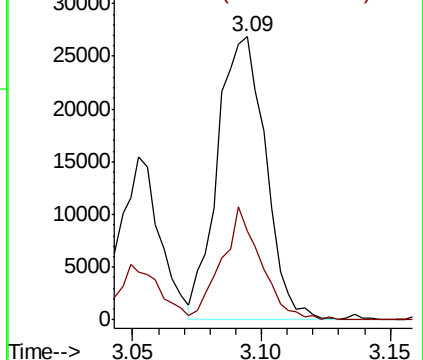
85 100

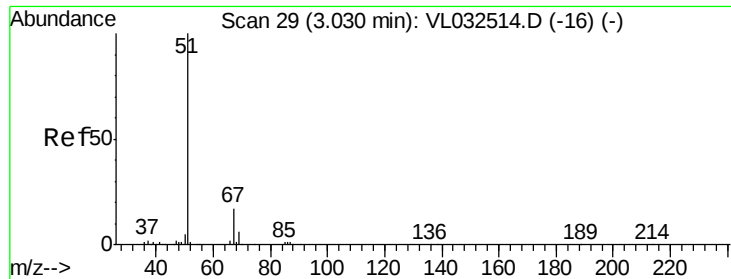
87 31.6 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.800 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

Instrument :

MSVOA\_L

ClientSampleId :

SVE-INF1-092018

Tot Ion: 51 Resp: 220058

Ion Ratio Lower Upper

51 100

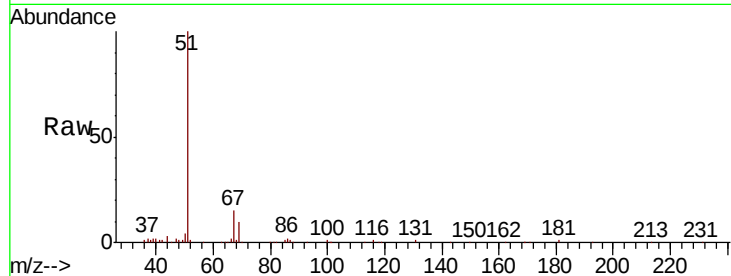
67 13.8 13.8 20.8#

Manual Integrations

APPROVED

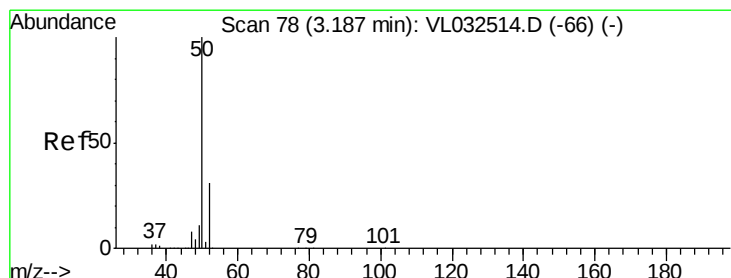
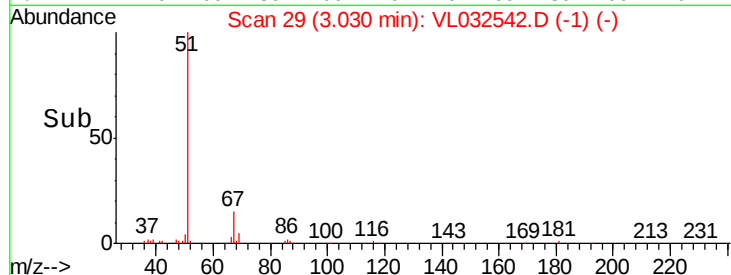
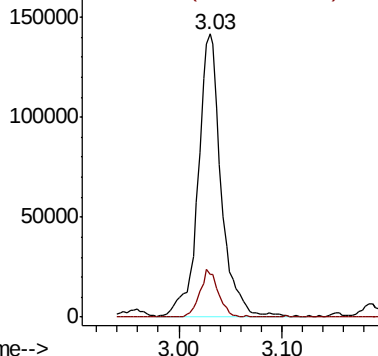
apatel

9/26/2018 5:04:06 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 3.055 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032542.D

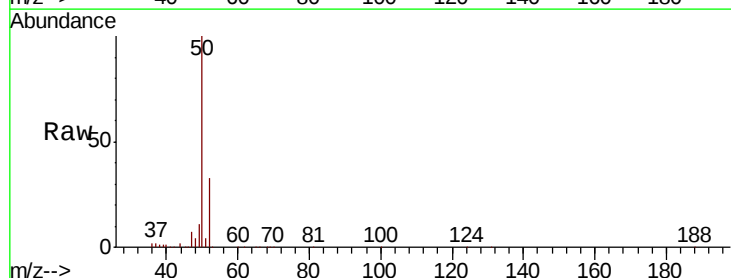
Acq: 25 Sep 2018 12:55

Tgt Ion: 50 Resp: 217813

Ion Ratio Lower Upper

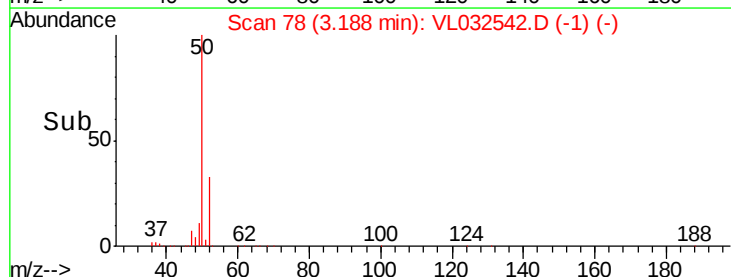
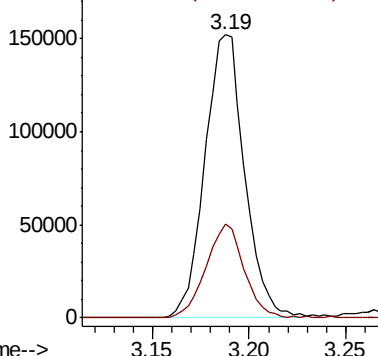
50 100

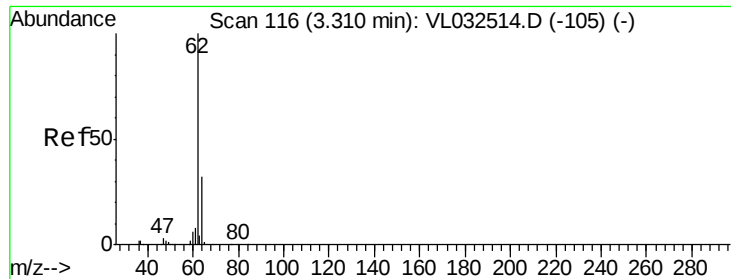
52 32.8 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 3.291 ppbv

RT: 3.31 min Scan# 116

Delta R.T. -0.01 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

Instrument :

MSVOA\_L

ClientSampleID :

SVE-INF1-092018

Tot Ion: 62 Resp: 237067

Ion Ratio Lower Upper

62 100

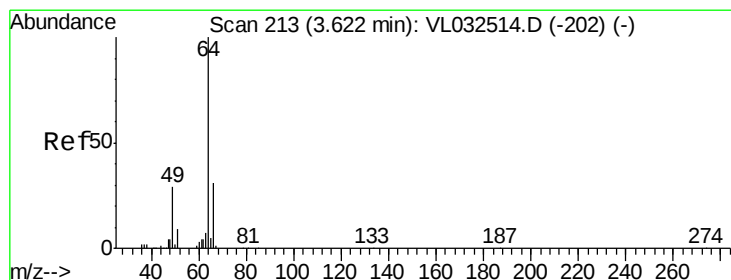
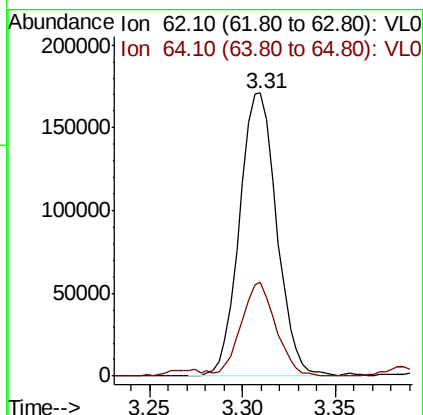
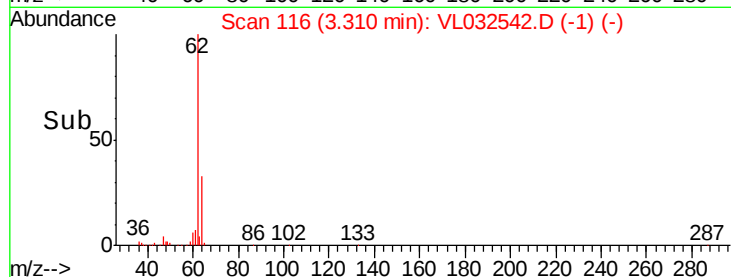
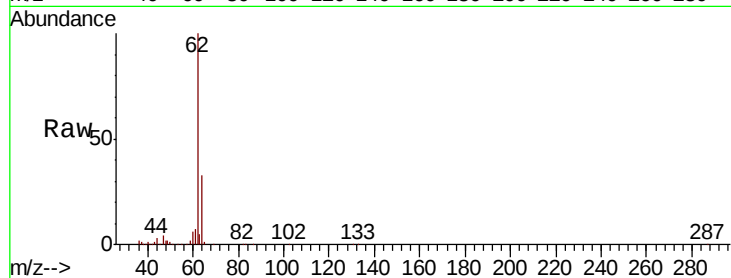
64 33.0 25.0 37.6

Manual Integrations

APPROVED

apatel

9/26/2018 5:04:06 PM



#7

Chloroethane

Concen: 14.639 ppbv

RT: 3.62 min Scan# 212

Delta R.T. -0.02 min

Lab File: VL032542.D

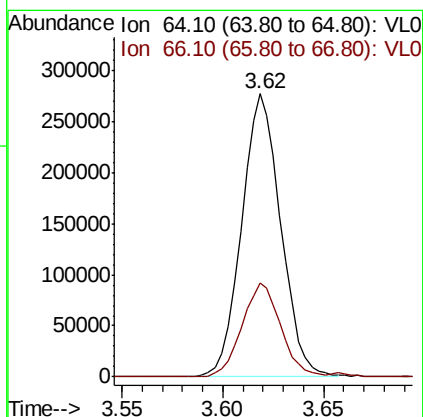
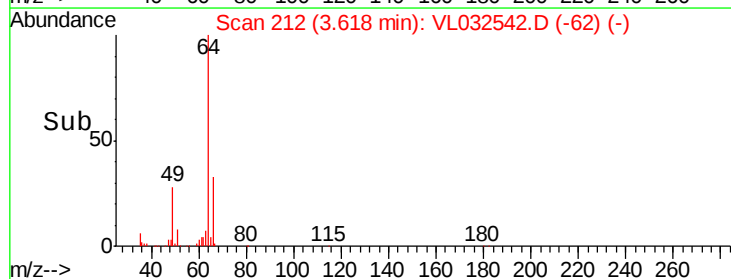
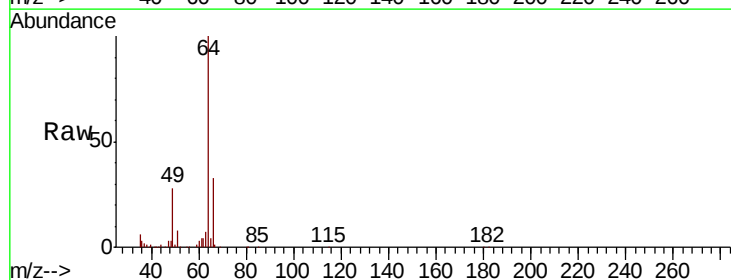
Acq: 25 Sep 2018 12:55

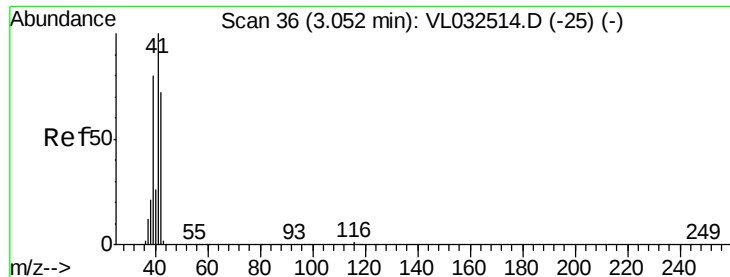
Tgt Ion: 64 Resp: 375738

Ion Ratio Lower Upper

64 100

66 33.2 25.8 38.6





#9

Propene

Concen: 2.115 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

Instrument :

MSVOA\_L

ClientSampleId :

SVE-INF1-092018

Tot Ion: 41 Resp: 112175

Ion Ratio Lower Upper

41 100

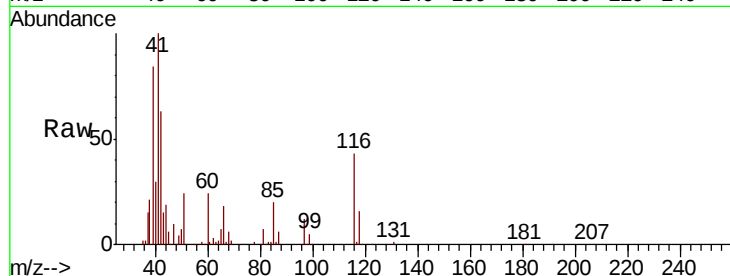
42 61.6 56.6 84.8

Manual Integrations

APPROVED

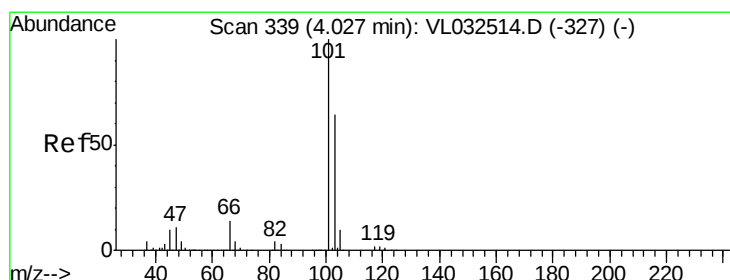
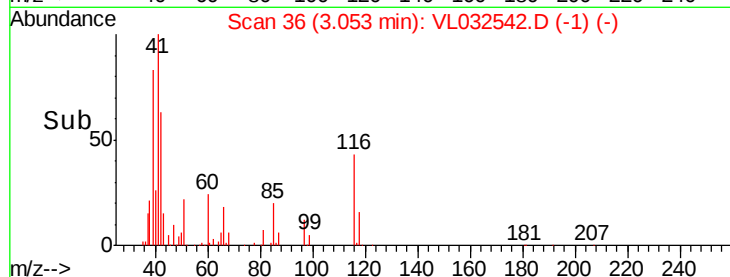
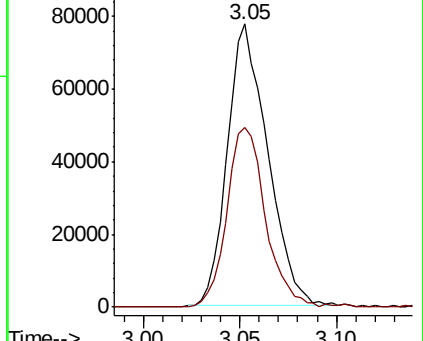
apatel

9/26/2018 5:04:06 PM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 1.186 ppbv

RT: 4.03 min Scan# 339

Delta R.T. -0.01 min

Lab File: VL032542.D

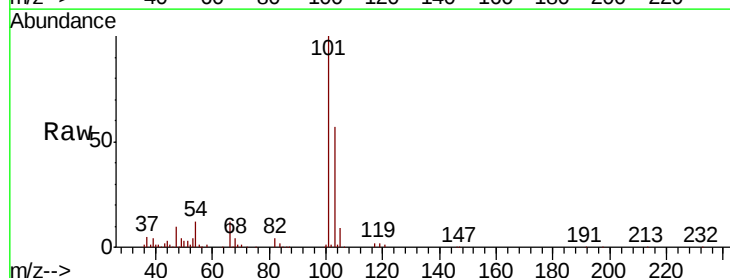
Acq: 25 Sep 2018 12:55

Tgt Ion: 101 Resp: 191749

Ion Ratio Lower Upper

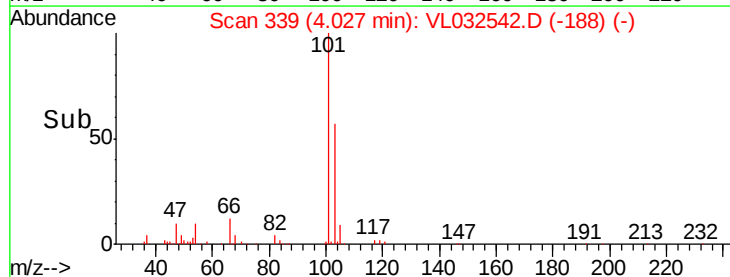
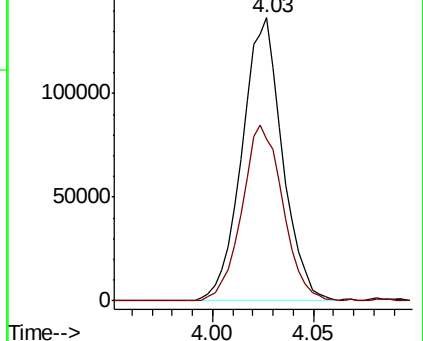
101 100

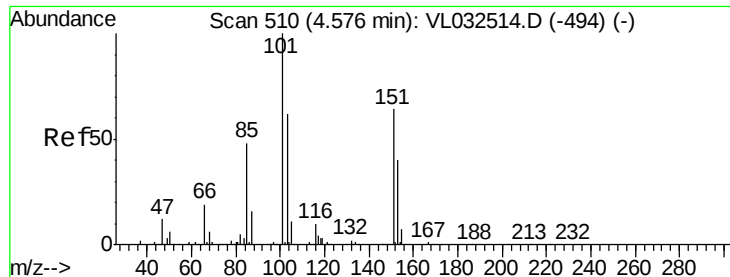
103 56.9 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 15.599 ppbv

RT: 4.57 min Scan# 509

Delta R.T. -0.02 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

Instrument :

MSVOA\_L

ClientSampleId :

SVE-INF1-092018

Tot Ion:101 Resp: 2061159

Ion Ratio Lower Upper

101 100

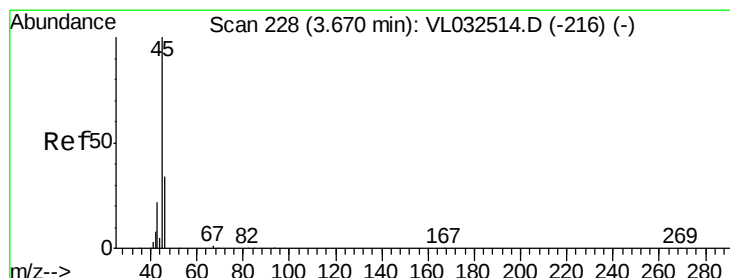
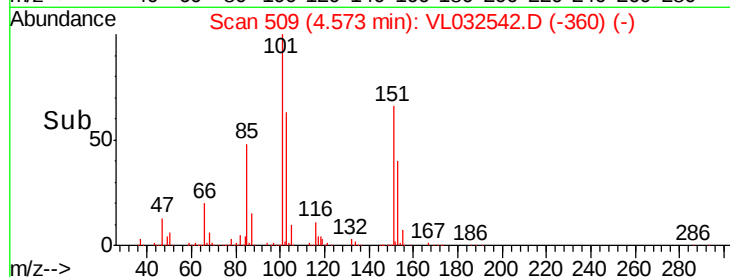
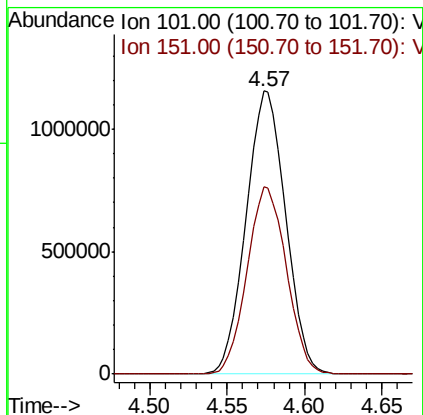
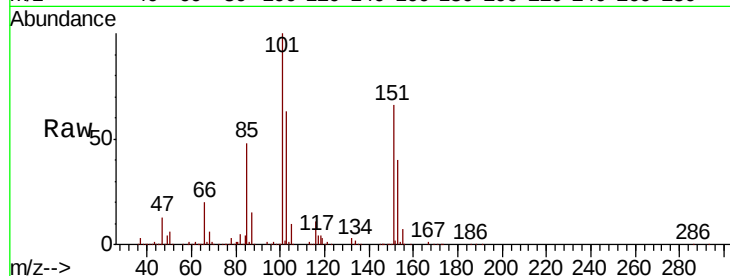
151 65.9 52.6 78.8

Manual Integrations

APPROVED

apatel

9/26/2018 5:04:06 PM



#13

Ethanol

Concen: 3.890 ppbv

RT: 3.67 min Scan# 229

Delta R.T. -0.01 min

Lab File: VL032542.D

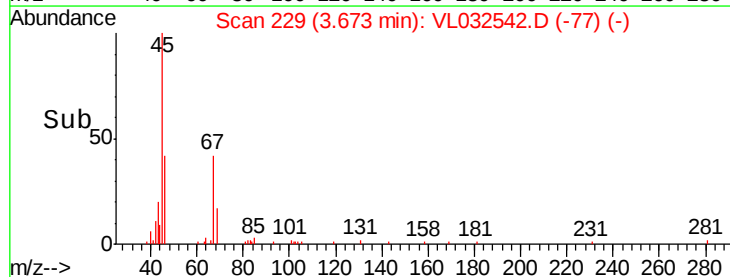
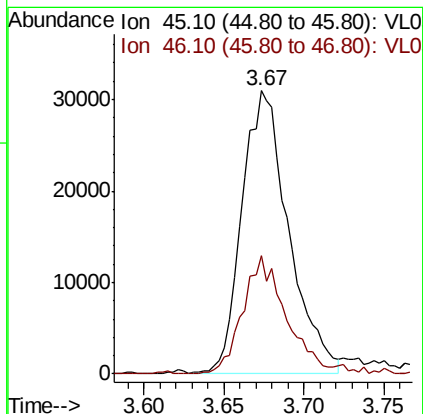
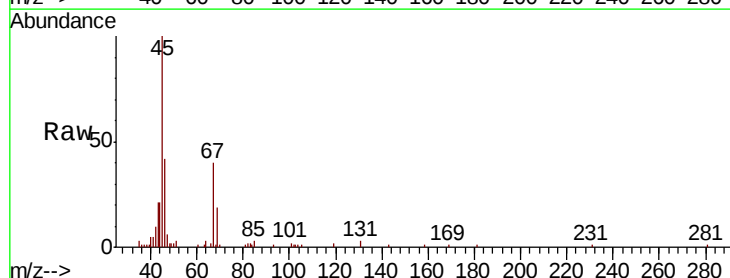
Acq: 25 Sep 2018 12:55

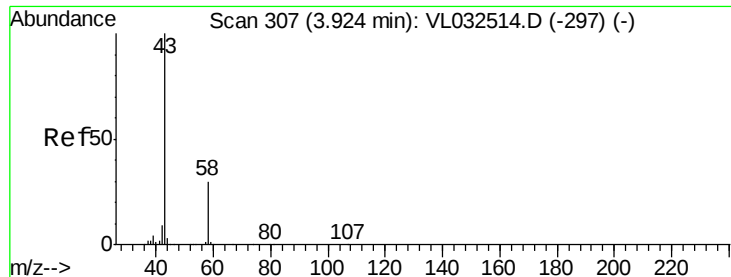
Tgt Ion: 45 Resp: 62021

Ion Ratio Lower Upper

45 100

46 39.8 14.2 56.8





#15

Acetone

Concen: 11.931 ppbv

RT: 3.93 min Scan# 309

Delta R.T. -0.01 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

Instrument :

MSVOA\_L

ClientSampleId :

SVE-INF1-092018

Tot Ion: 43 Resp: 1539684

Ion Ratio Lower Upper

43 100

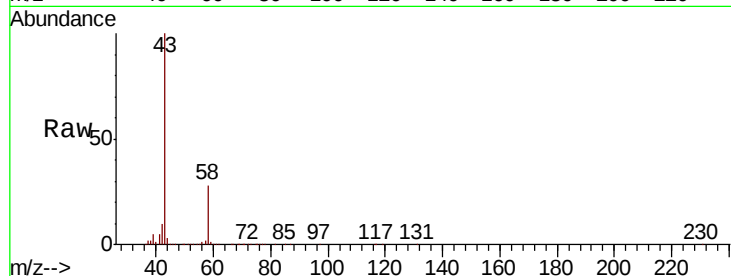
58 28.8 22.6 33.8

Manual Integrations

APPROVED

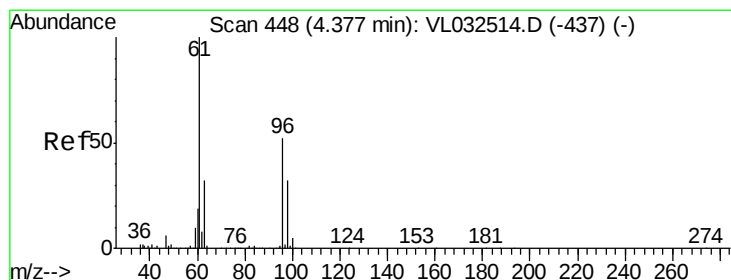
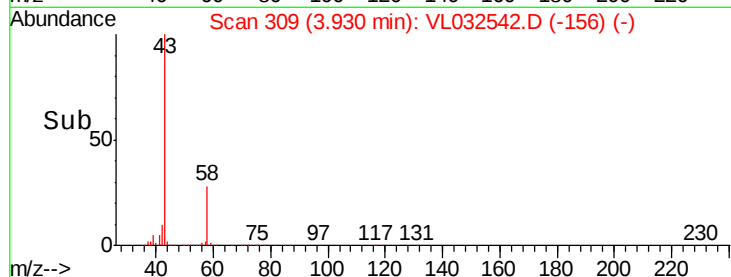
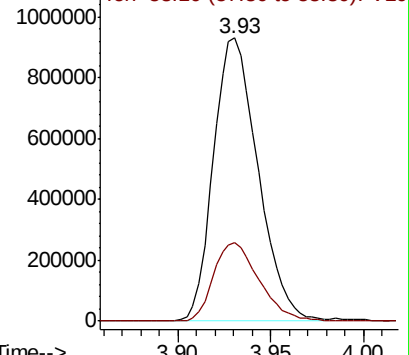
apatel

9/26/2018 5:04:06 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 7.915 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.02 min

Lab File: VL032542.D

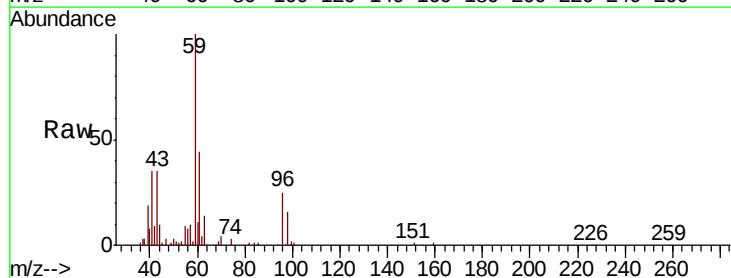
Acq: 25 Sep 2018 12:55

Tgt Ion: 59 Resp: 128353

Ion Ratio Lower Upper

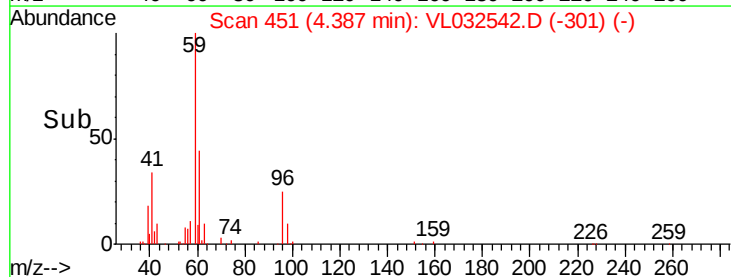
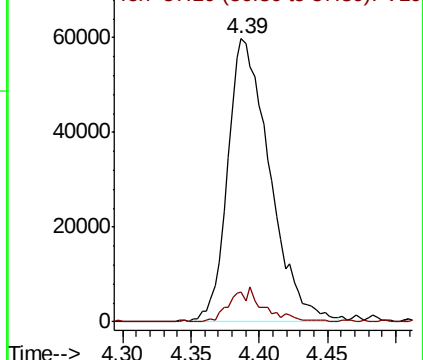
59 100

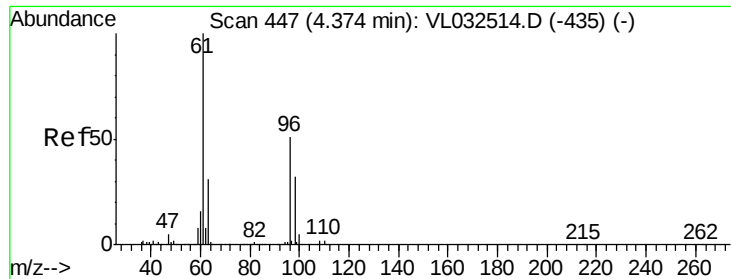
57 9.8 0.0 0.0#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





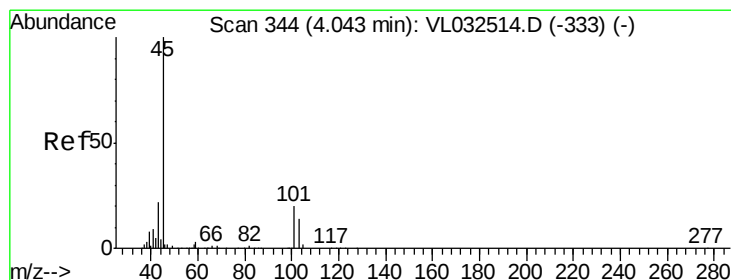
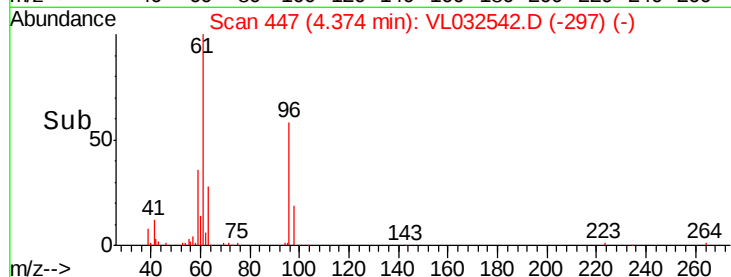
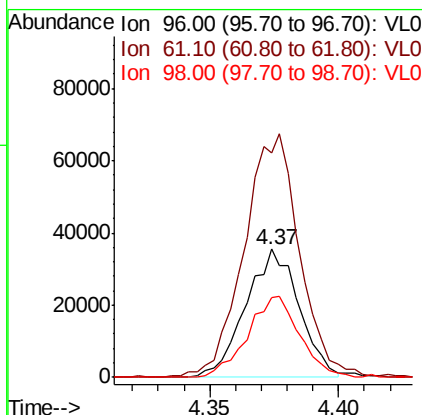
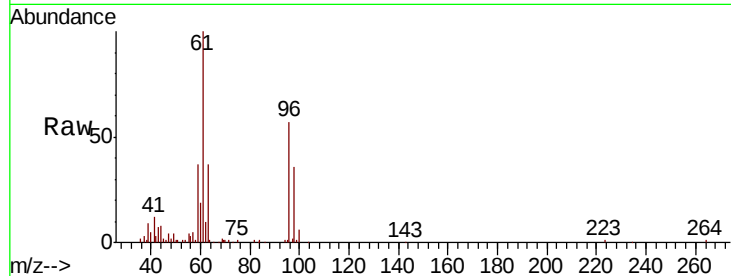
#18  
 1,1-Dichloroethene  
 Concen: 0.827 ppbv  
 RT: 4.37 min Scan# 447  
 Delta R.T. -0.02 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-INF1-092018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 170.8 | 159.2 | 238.8 |
| 98      | 62.5  | 51.0  | 76.4  |

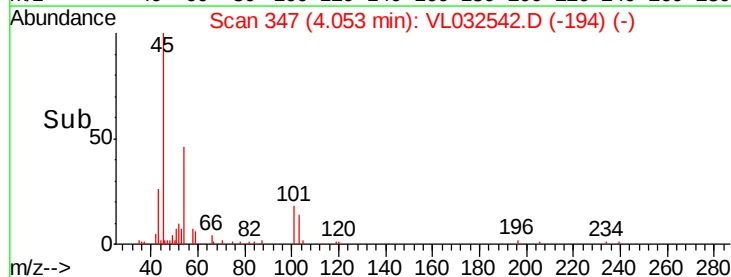
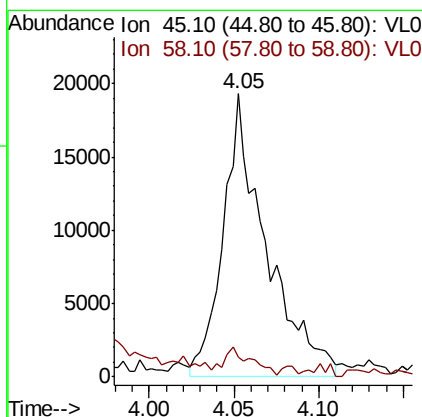
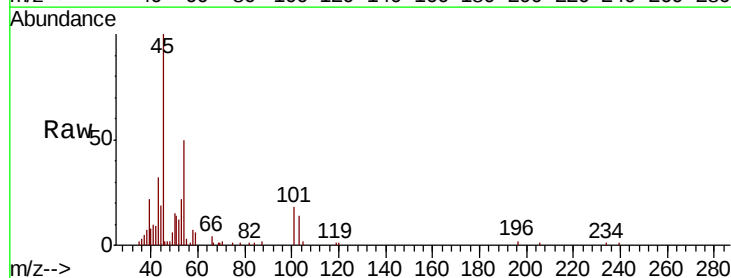
Manual Integrations  
 APPROVED

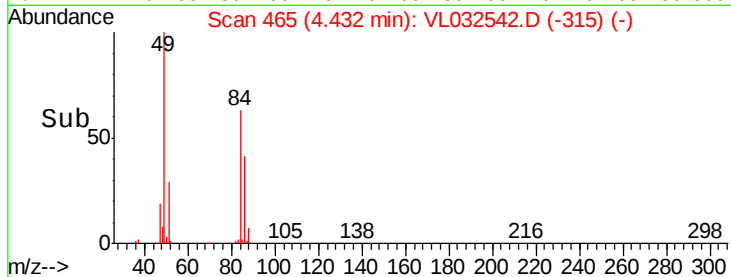
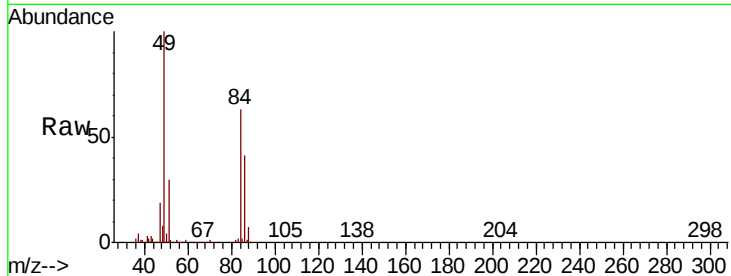
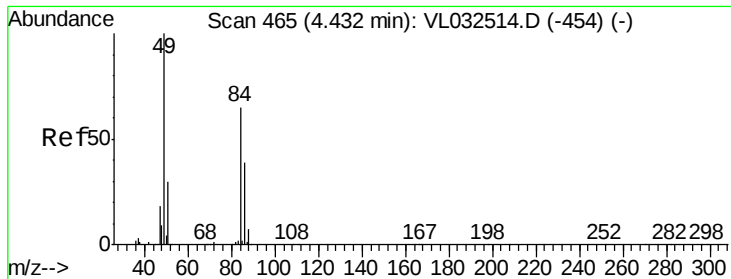
apatel  
 9/26/2018 5:04:06 PM



#19  
 Isopropyl Alcohol  
 Concen: 0.380 ppbv m  
 RT: 4.05 min Scan# 347  
 Delta R.T. -0.01 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 58      | 0.0   | 2.0   | 3.0#  |





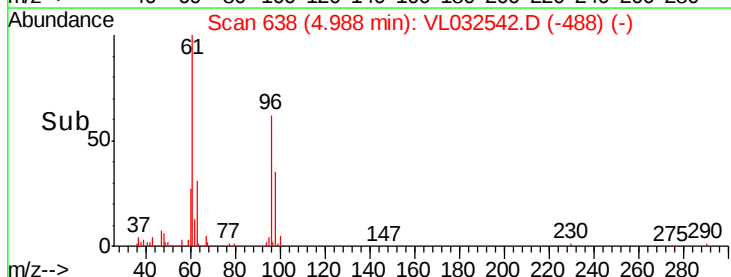
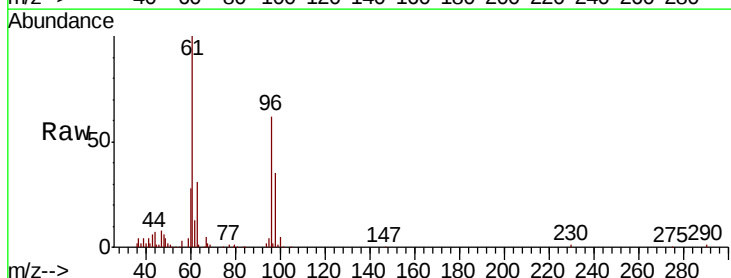
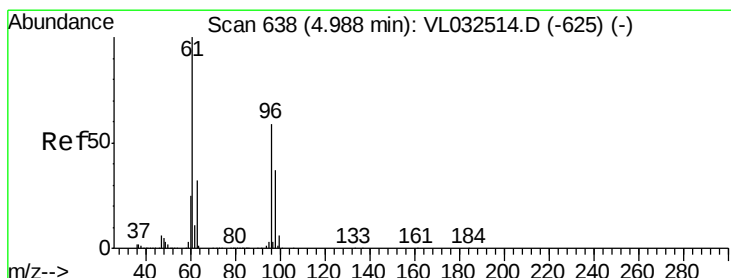
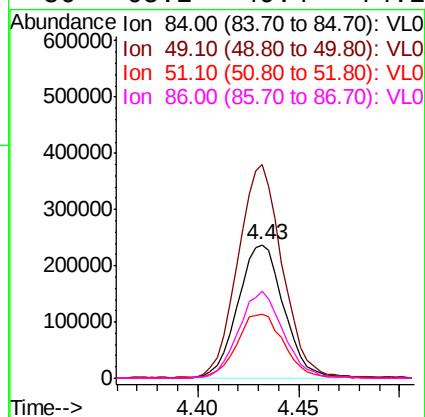
#20  
Methvlene Chloride  
Concen: 6.031 ppbv  
RT: 4.43 min Scan# 465  
Delta R.T. -0.02 min  
Lab File: VL032542.D  
Acq: 25 Sep 2018 12:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 84    | Resp: | 376855 |
| Ion Ratio | Lower | Upper |        |
| 84        | 100   |       |        |
| 49        | 159.4 | 119.1 | 178.7  |
| 51        | 46.8  | 35.2  | 52.8   |
| 86        | 65.2  | 49.4  | 74.2   |

Instrument :  
MSVOA\_L  
ClientSampleId :  
SVE-INF1-092018

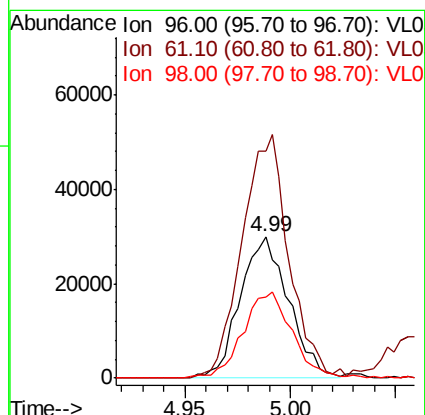
Manual Integrations  
APPROVED

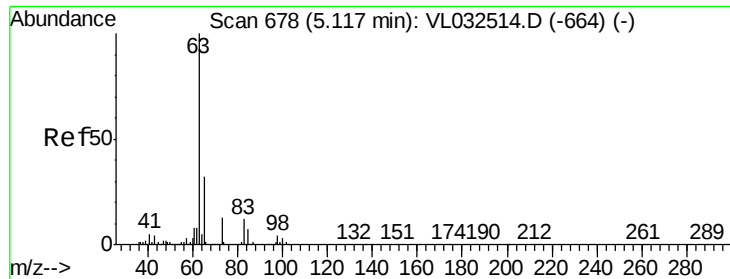
apatel  
9/26/2018 5:04:06 PM



#22  
trans-1,2-Dichloroethene  
Concen: 0.820 ppbv  
RT: 4.99 min Scan# 638  
Delta R.T. -0.02 min  
Lab File: VL032542.D  
Acq: 25 Sep 2018 12:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 96    | Resp: | 47834 |
| Ion Ratio | Lower | Upper |       |
| 96        | 100   |       |       |
| 61        | 160.7 | 136.2 | 204.4 |
| 98        | 55.8  | 50.4  | 75.6  |





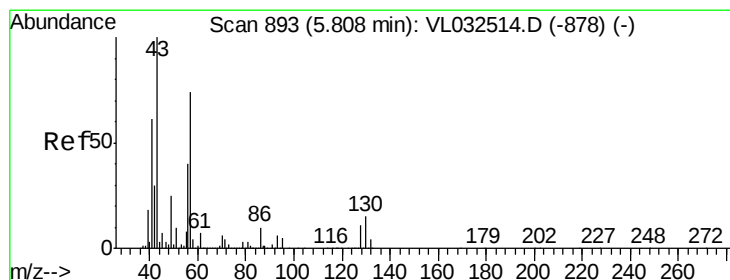
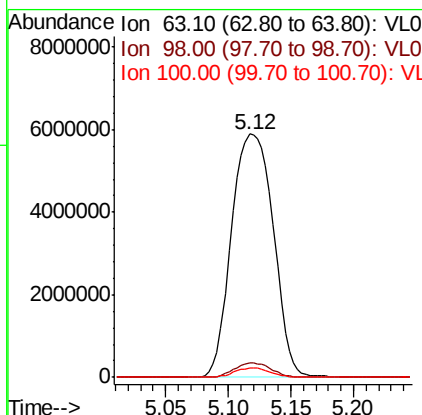
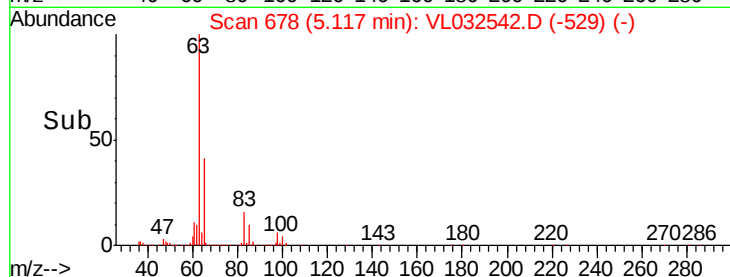
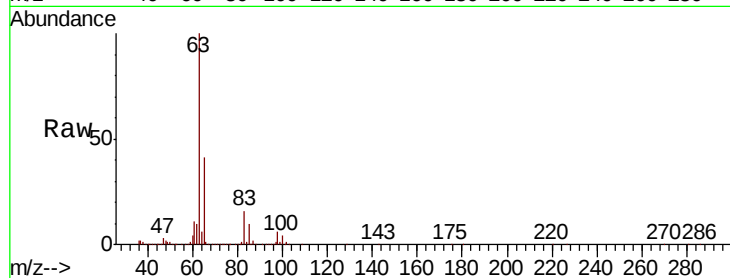
#24  
 1,1-Dichloroethane  
 Concen: 72.064 ppbv  
 RT: 5.12 min Scan# 678  
 Delta R.T. -0.02 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-INF1-092018

| Tot Ion: | 63    | Resp: | 13684338 |
|----------|-------|-------|----------|
| Ion      | Ratio | Lower | Upper    |
| 63       | 100   |       |          |
| 98       | 6.0   | 2.1   | 6.5      |
| 100      | 3.7   | 1.5   | 4.4      |

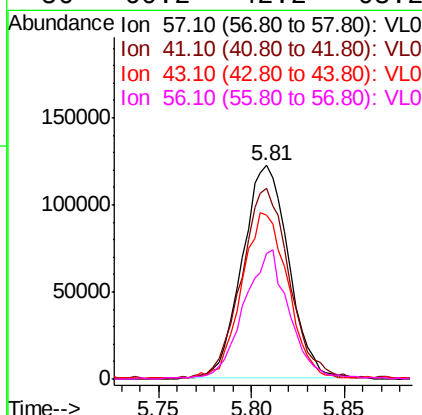
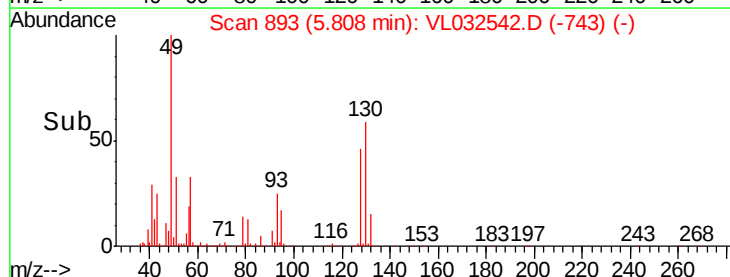
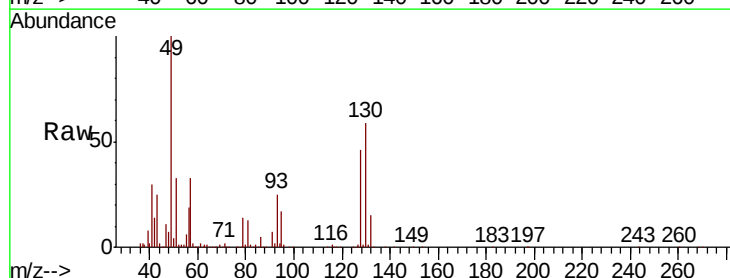
Manual Integrations  
 APPROVED

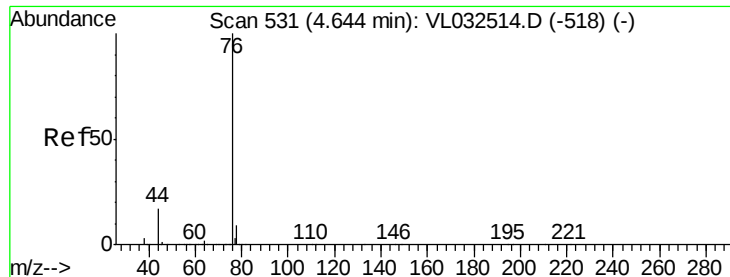
apatel  
 9/26/2018 5:04:06 PM



#26  
 Hexane  
 Concen: 1.496 ppbv  
 RT: 5.81 min Scan# 893  
 Delta R.T. -0.02 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

| Tgt Ion: | 57    | Resp: | 211550 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 93.5  | 69.0  | 103.4  |
| 43       | 77.4  | 172.1 | 258.1# |
| 56       | 60.2  | 42.2  | 63.2   |





#27

Carbon Disulfide

Concen: 0.165 ppbv

RT: 4.64 min Scan# 530

Delta R.T. -0.02 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

Instrument :

MSVOA\_L

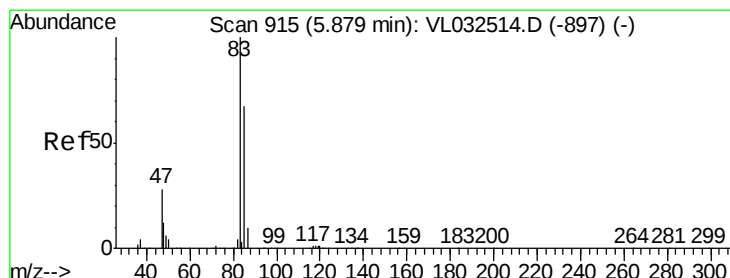
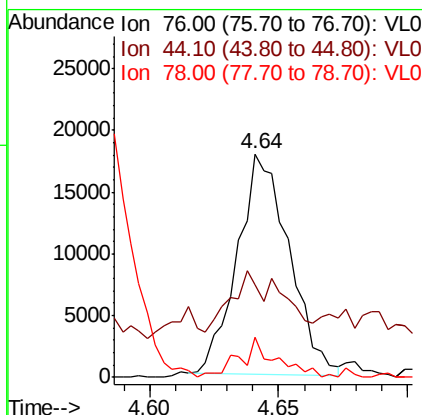
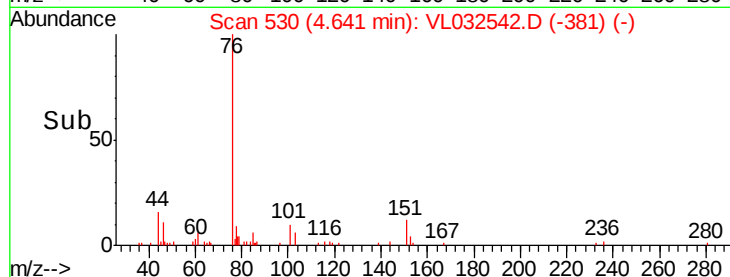
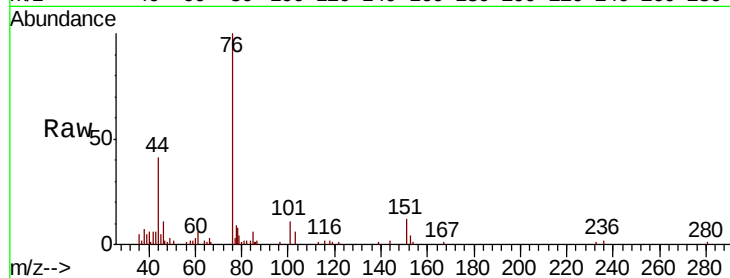
ClientSampleId :

SVE-INF1-092018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 76    | Resp: | 25106 |
| Ion Ratio | Lower | Upper |       |
| 76        | 100   |       |       |
| 44        | 38.6  | 14.0  | 21.0# |
| 78        | 13.8  | 7.5   | 11.3# |

Manual Integrations  
APPROVED

apatel  
9/26/2018 5:04:06 PM



#29

Chloroform

Concen: 0.188 ppbv m

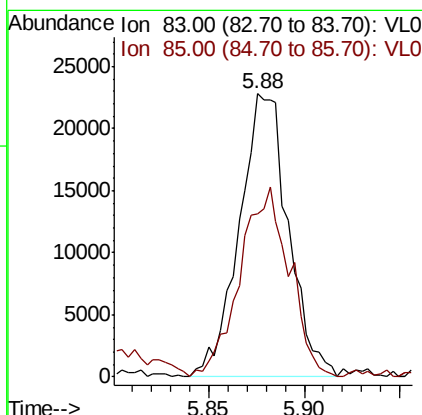
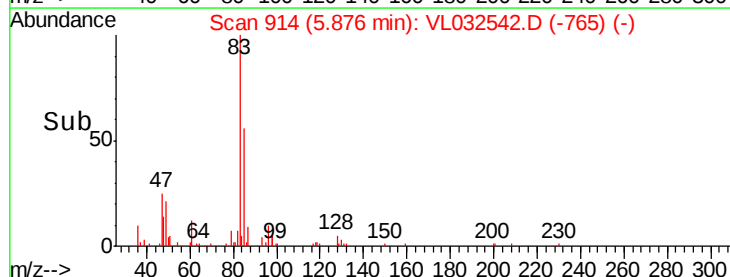
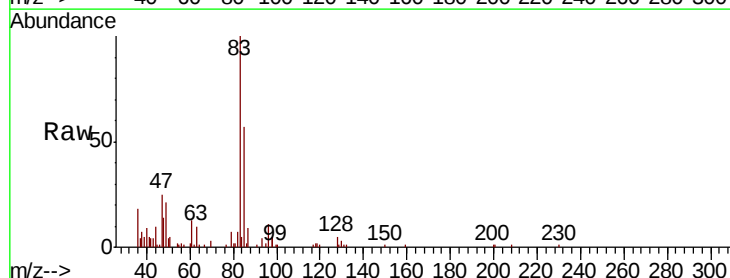
RT: 5.88 min Scan# 914

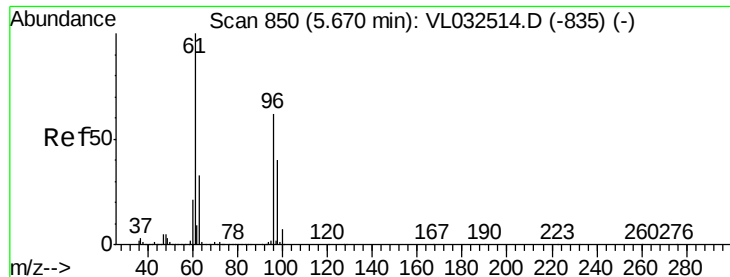
Delta R.T. -0.02 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 40748 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 57.5  | 52.5  | 78.7  |





#31

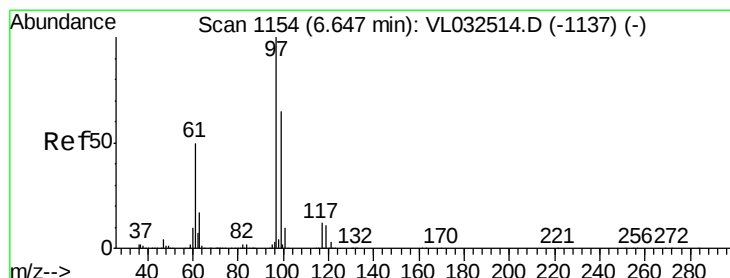
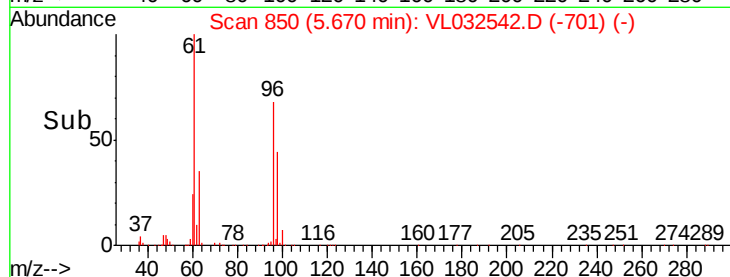
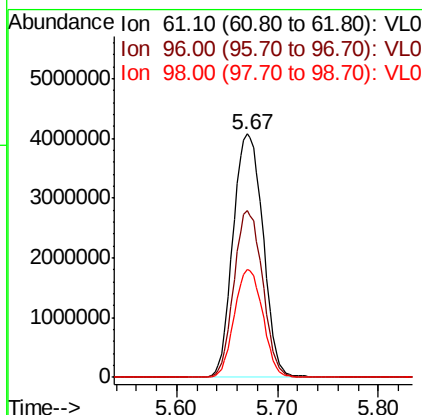
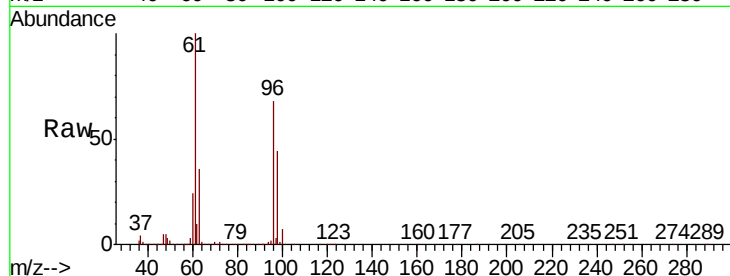
cis-1,2-Dichloroethene  
 Concen: 62.474 ppbv  
 RT: 5.67 min Scan# 850  
 Delta R.T. -0.02 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-INF1-092018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 68.3  | 49.2  | 73.8  |
| 98      | 44.4  | 30.7  | 46.1  |

Manual Integrations  
 APPROVED

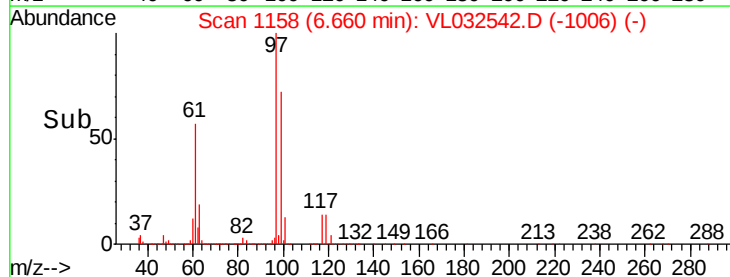
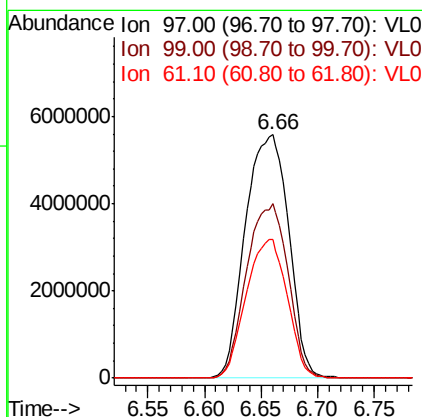
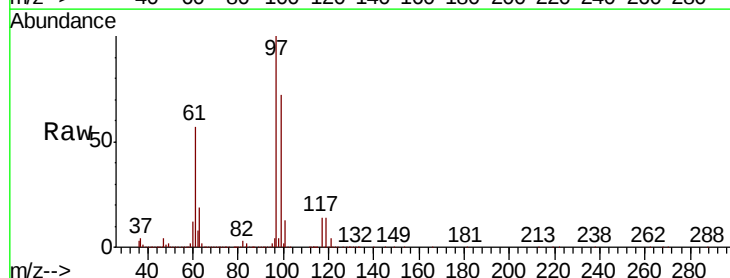
apatel  
 9/26/2018 5:04:06 PM

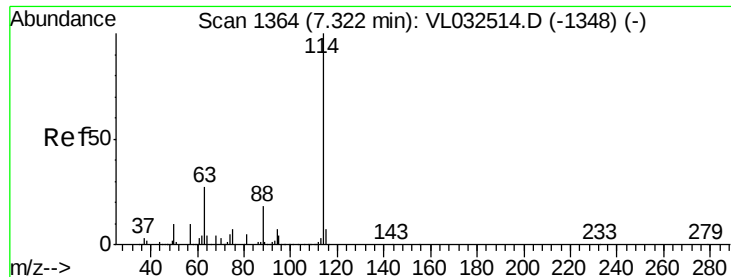


#32

1,1,1-Trichloroethane  
 Concen: 64.387 ppbv  
 RT: 6.66 min Scan# 1158  
 Delta R.T. -0.01 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 68.9  | 52.1  | 78.1  |
| 61      | 54.1  | 42.5  | 63.7  |





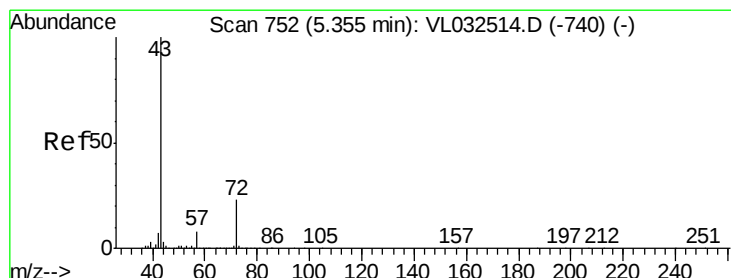
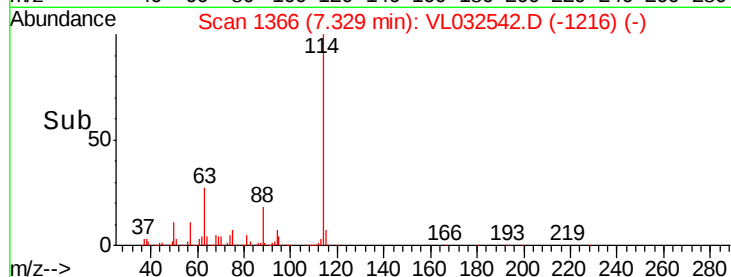
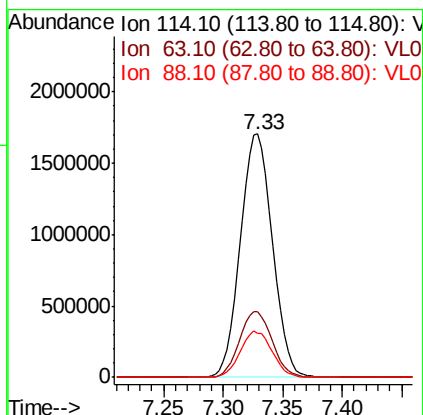
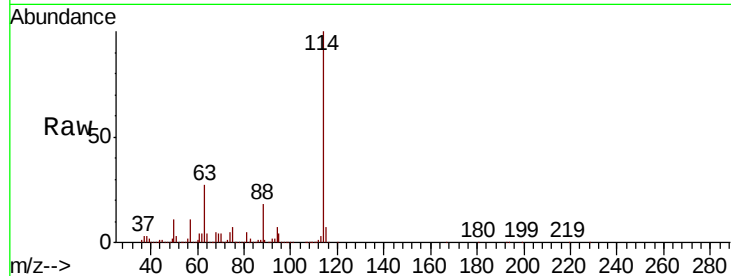
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.33 min Scan# 1366  
 Delta R.T. -0.02 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-INF1-092018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.5  | 22.2  | 33.4  |
| 88      | 18.9  | 15.0  | 22.4  |

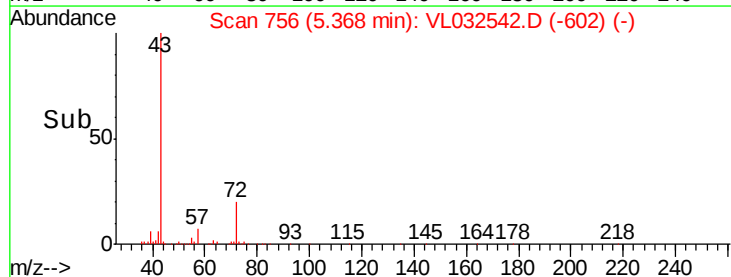
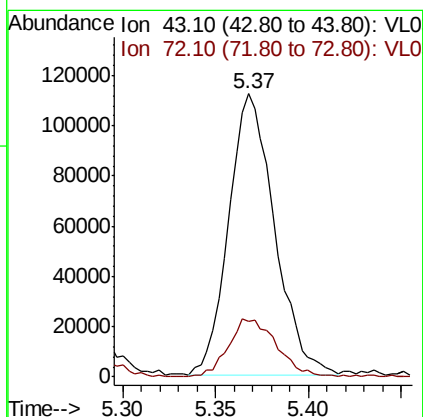
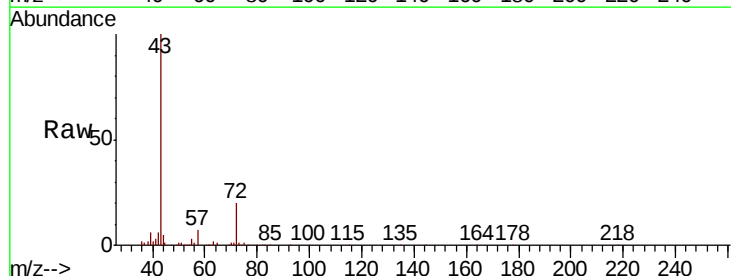
Manual Integrations  
 APPROVED

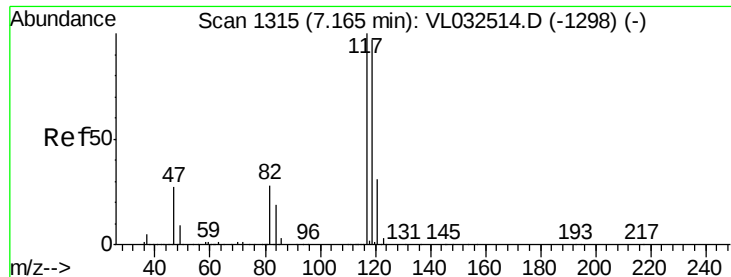
apatel  
 9/26/2018 5:04:06 PM



#34  
 2-Butanone  
 Concen: 1.013 ppbv  
 RT: 5.37 min Scan# 756  
 Delta R.T. -0.01 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 21.7  | 17.8  | 26.6  |





#35

Carbon Tetrachloride

Concen: 0.067 ppbv m

RT: 7.16 min Scan# 1315

Delta R.T. -0.02 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

Instrument :

MSVOA\_L

ClientSampleId :

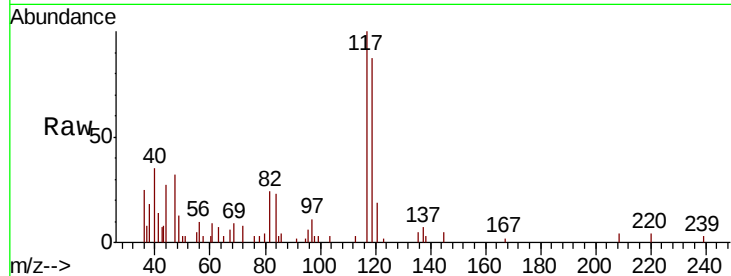
SVE-INF1-092018

| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 117     | 100  |       | 14851 |       |       |
| 119     | 87.1 | 76.6  | 115.0 |       |       |
| 121     | 19.2 | 24.6  | 36.8# |       |       |

Manual Integrations  
APPROVED

apatel

9/26/2018 5:04:06 PM

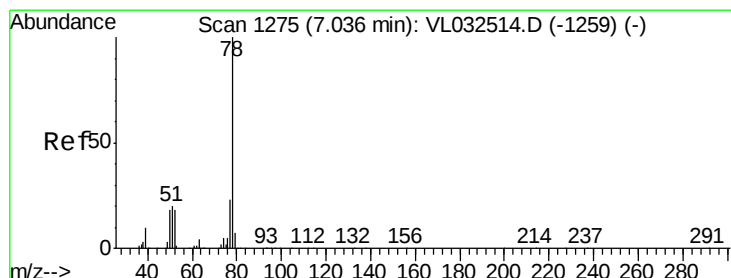
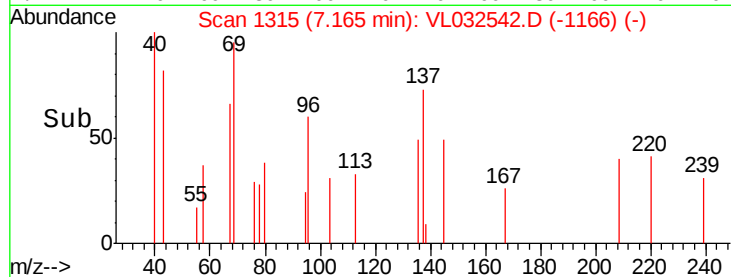
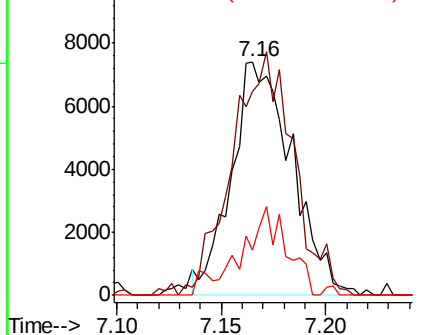


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 2.619 ppbv

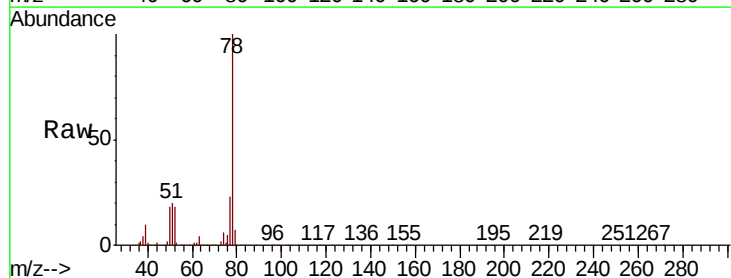
RT: 7.04 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 78      | 100  |       | 673740 |       |       |
| 77      | 23.2 | 18.4  | 27.6   |       |       |
| 50      | 18.1 | 14.4  | 21.6   |       |       |

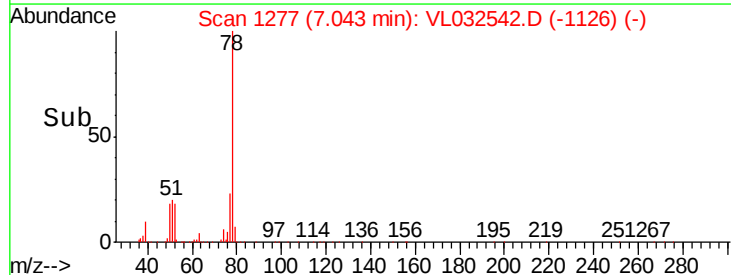
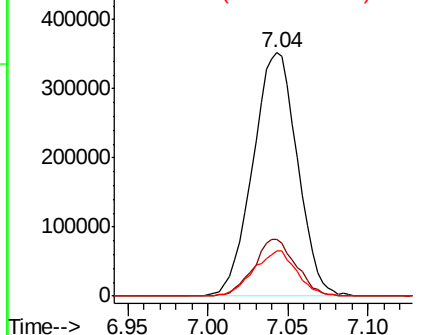


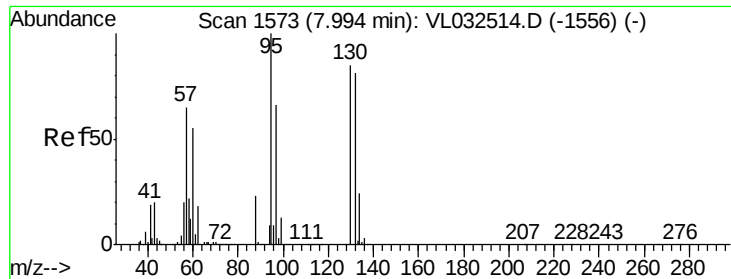
Abundance

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





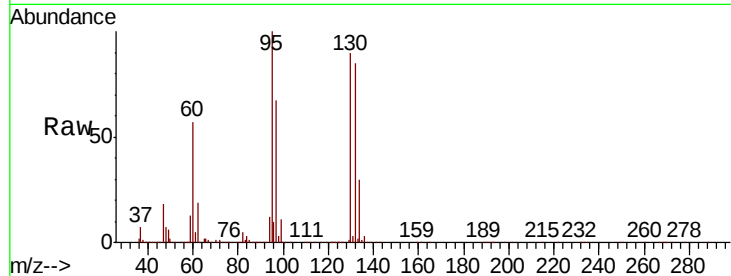
#38  
 Trichloroethene  
 Concen: 96.824 ppbv  
 RT: 8.00 min Scan# 1574  
 Delta R.T. -0.02 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-INF1-092018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 111.2 | 94.2  | 141.4 |
| 132     | 94.9  | 76.2  | 114.4 |
| 97      | 74.6  | 60.8  | 91.2  |

Manual Integrations  
 APPROVED

apatel  
 9/26/2018 5:04:06 PM



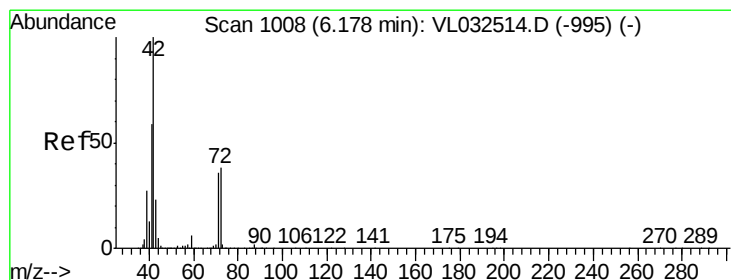
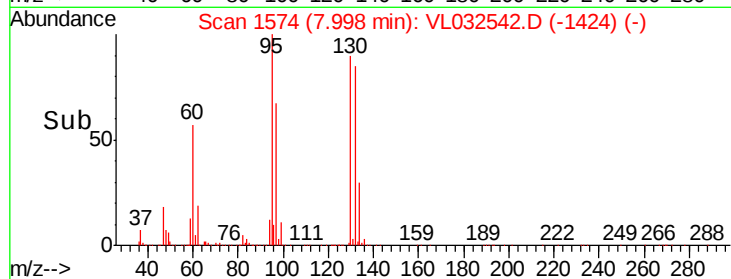
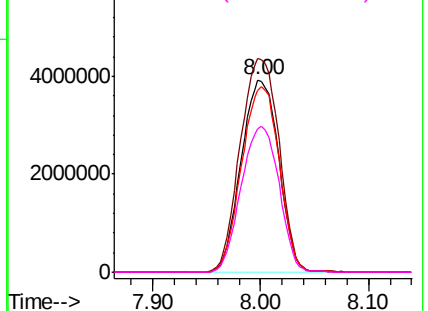
Abundance

Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

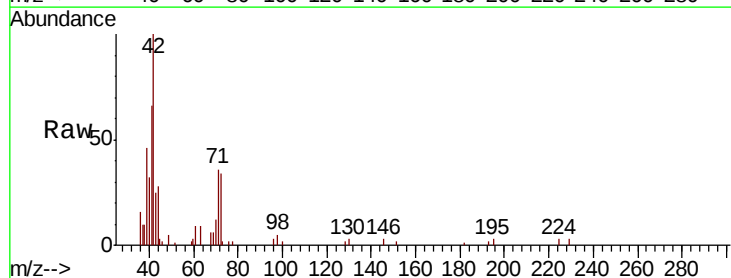
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#41  
 Tetrahydrofuran  
 Concen: 0.217 ppbv  
 RT: 6.20 min Scan# 1014  
 Delta R.T. 0.00 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 45.3  | 29.5  | 44.3# |
| 71      | 40.5  | 28.3  | 42.5  |

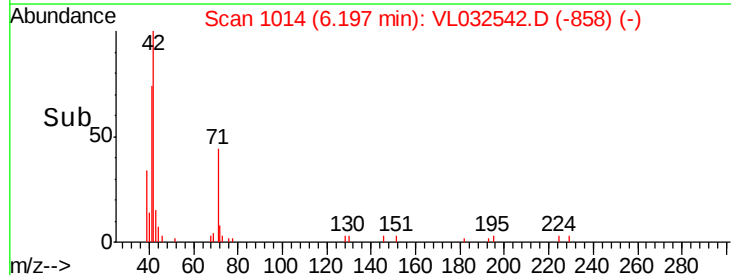
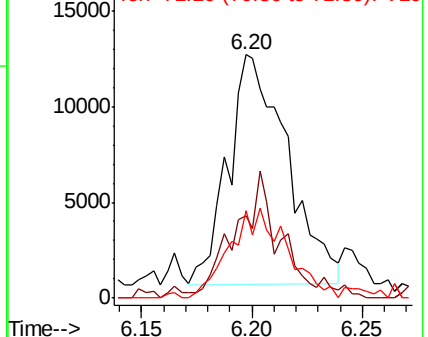


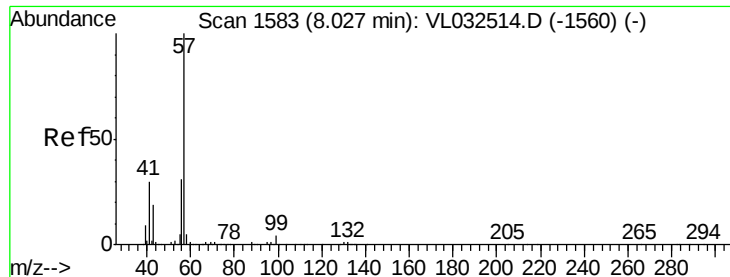
Abundance

Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.124 ppbv

RT: 8.03 min Scan# 1585

Delta R.T. -0.01 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

Instrument :

MSVOA\_L

ClientSampleId :

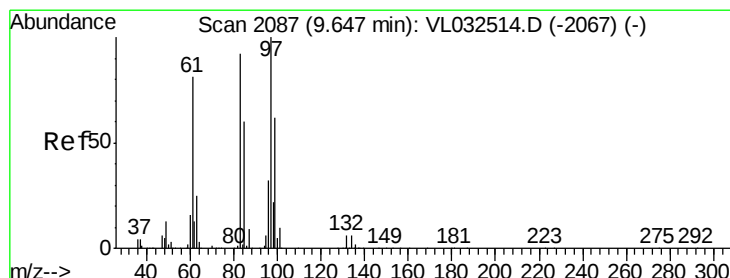
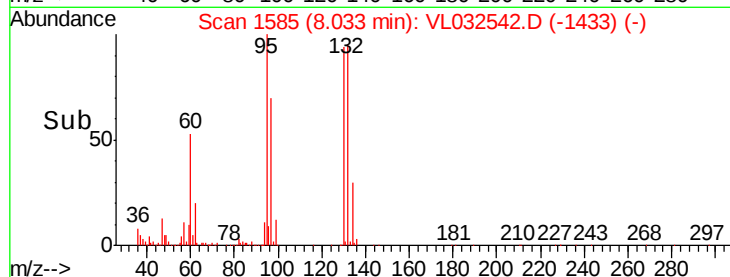
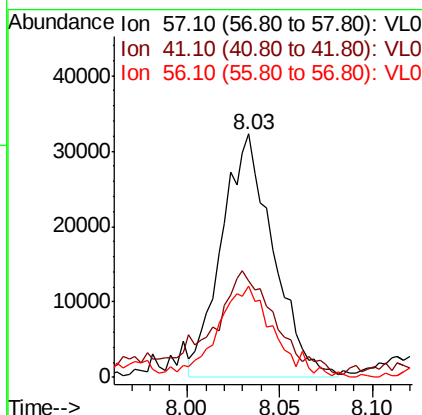
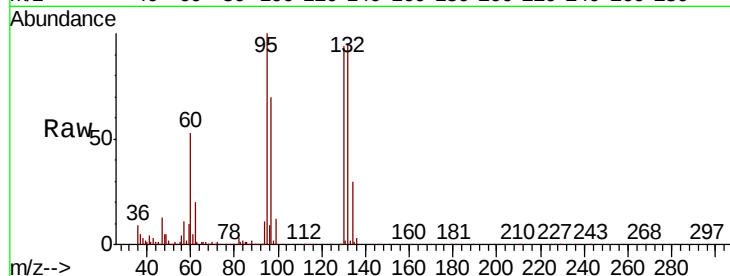
SVE-INF1-092018

| Tot Ion   | 57    | Resp  | 62271 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 57        | 100   |       |       |
| 41        | 59.3  | 24.4  | 36.6# |
| 56        | 41.7  | 25.7  | 38.5# |

Manual Integrations  
APPROVED

apatel

9/26/2018 5:04:06 PM



#47

1,1,2-Trichloroethane

Concen: 0.308 ppbv

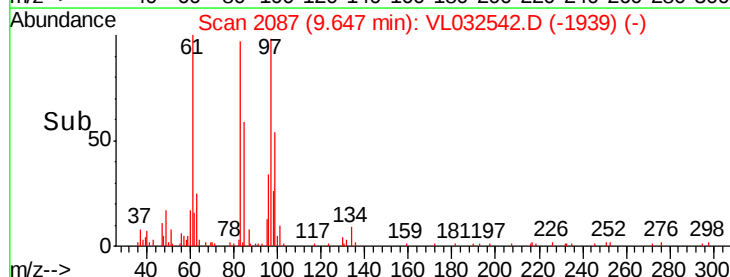
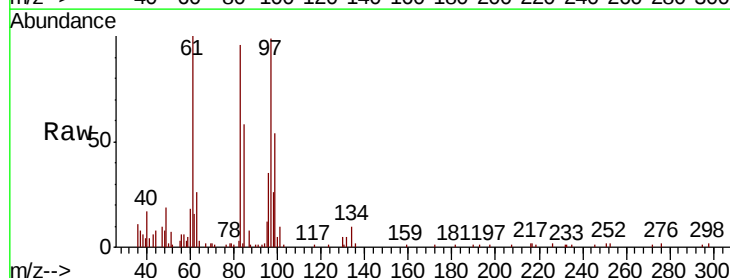
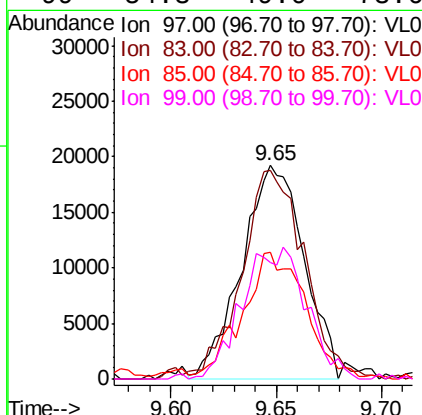
RT: 9.65 min Scan# 2087

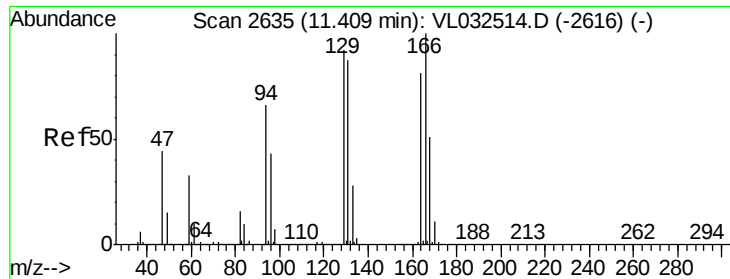
Delta R.T. -0.02 min

Lab File: VL032542.D

Acq: 25 Sep 2018 12:55

| Tgt Ion   | 97    | Resp  | 39696 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 83        | 93.8  | 75.0  | 112.4 |
| 85        | 57.1  | 47.5  | 71.3  |
| 99        | 54.3  | 49.0  | 73.6  |





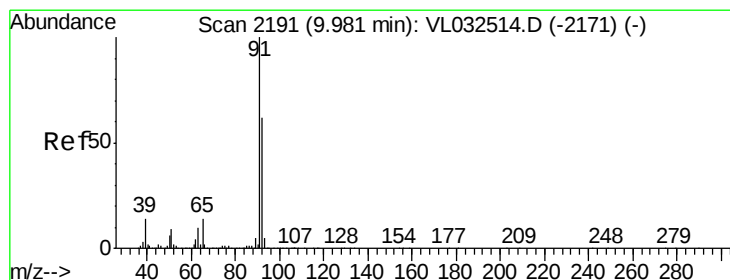
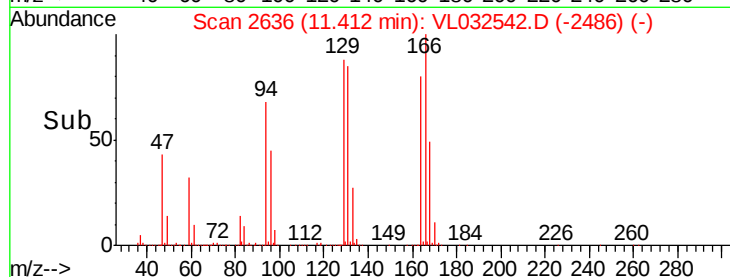
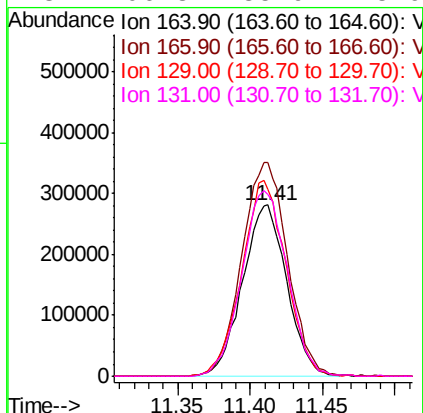
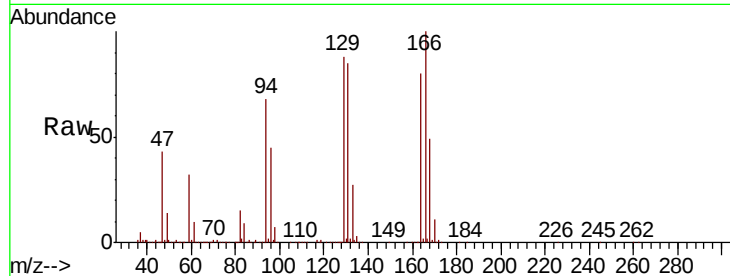
#52  
Tetrachloroethene  
Concen: 6.624 ppbv  
RT: 11.41 min Scan# 2636  
Delta R.T. -0.02 min  
Lab File: VL032542.D  
Acq: 25 Sep 2018 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
SVE-INF1-092018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 124.7 | 100.6 | 150.8 |
| 129     | 109.3 | 89.9  | 134.9 |
| 131     | 106.3 | 85.9  | 128.9 |

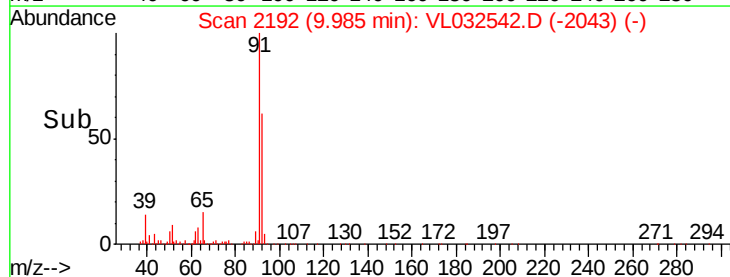
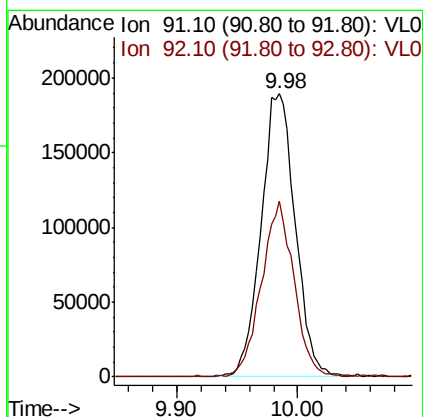
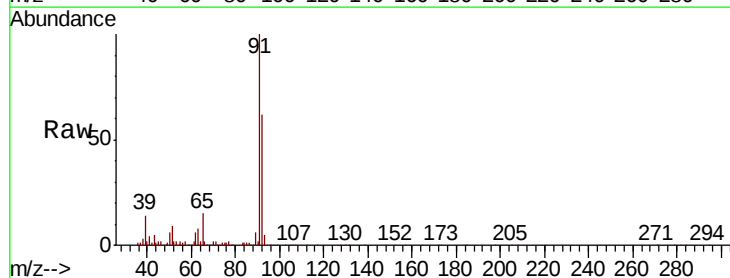
Manual Integrations  
APPROVED

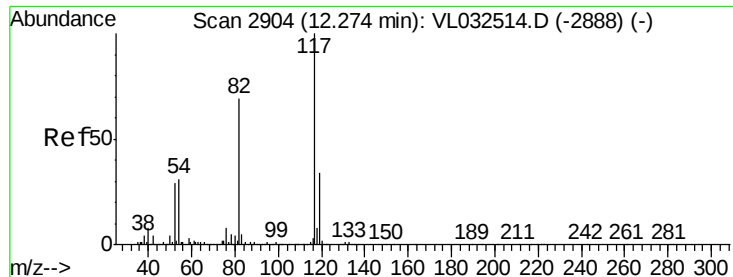
apatel  
9/26/2018 5:04:06 PM



#53  
Toluene  
Concen: 1.201 ppbv m  
RT: 9.98 min Scan# 2192  
Delta R.T. -0.02 min  
Lab File: VL032542.D  
Acq: 25 Sep 2018 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 0.0   | 48.1  | 72.1# |





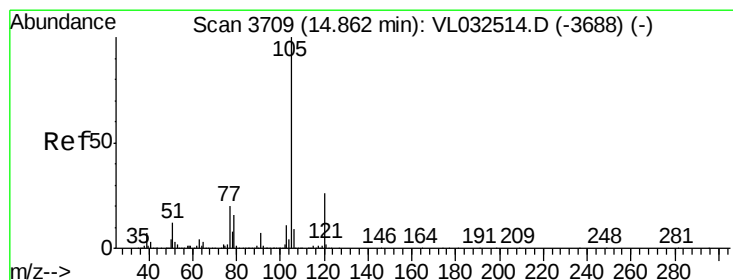
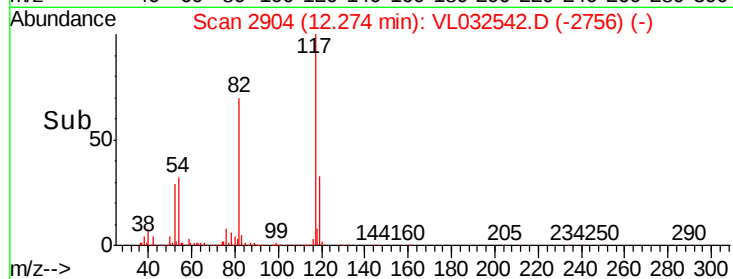
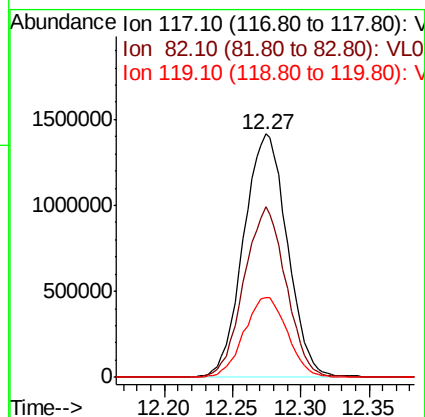
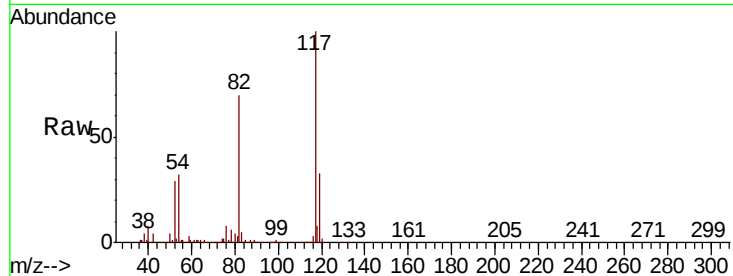
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.27 min Scan# 2904  
Delta R.T. -0.02 min  
Lab File: VL032542.D  
Acq: 25 Sep 2018 12:55

Instrument :  
MSVOA\_L  
ClientSampleId :  
SVE-INF1-092018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 67.8  | 53.0  | 79.6  |
| 119     | 32.8  | 45.9  | 68.9  |

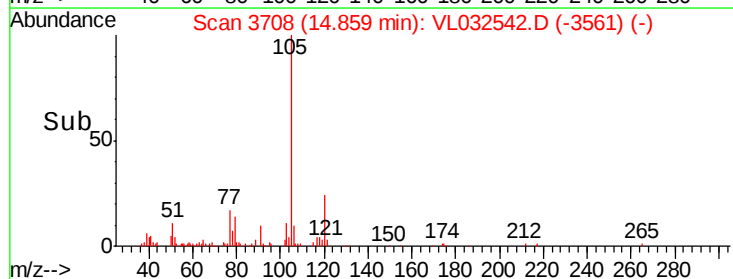
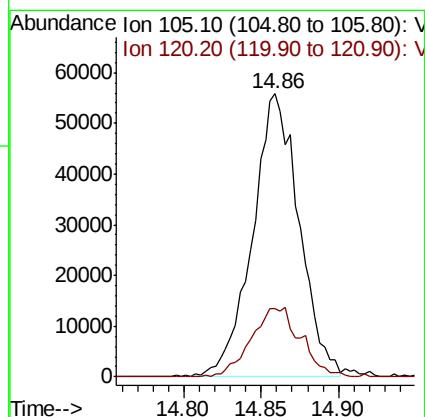
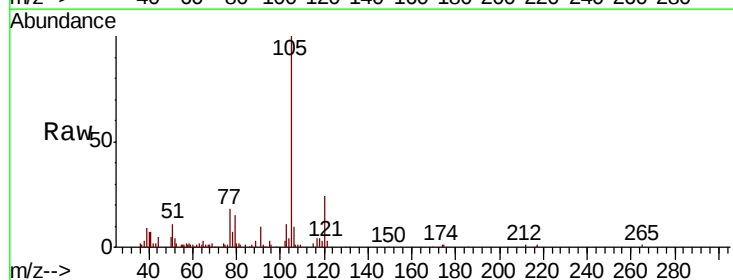
Manual Integrations  
APPROVED

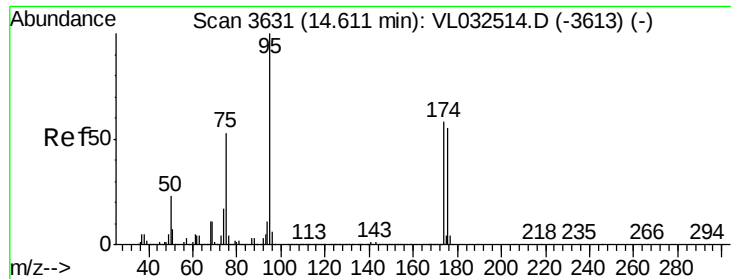
apatel  
9/26/2018 5:04:06 PM



#62  
Isopropylbenzene  
Concen: 0.251 ppbv  
RT: 14.86 min Scan# 3708  
Delta R.T. -0.03 min  
Lab File: VL032542.D  
Acq: 25 Sep 2018 12:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.2  | 20.6  | 31.0  |





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.950 ppbv  
 RT: 14.61 min Scan# 3630  
 Delta R.T. -0.03 min  
 Lab File: VL032542.D  
 Acq: 25 Sep 2018 12:55

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SVE-INF1-092018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 57.4  | 46.3  | 69.5  |
| 175     | 4.1   | 3.4   | 5.0   |

Manual Integrations  
 APPROVED

apatel  
 9/26/2018 5:04:06 PM

