

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\  
 Data File : VL032869.D  
 Acq On : 1 Dec 2018 4:09  
 Operator : SY/AP  
 Sample : J6132-07  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-06

Manual Integrations  
 APPROVED

MMDadoda  
 12/3/2018 4:17:10 PM

Quant Time: Dec 03 16:40:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 1  
 QLast Update : Wed Nov 14 07:00:23 2018  
 Response via : Initial Calibration

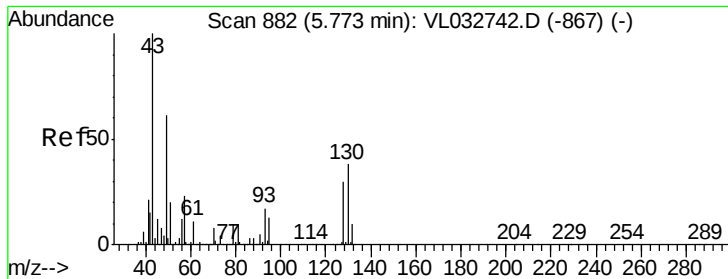
| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 1283398  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 3403878  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 3308849  | 10.00 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 14.59  | 95    | 2599789  | 10.50    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.00% |

| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane | 3.08  | 85   | 48276    | 0.262  | ppbv   | 95     |
| 3) Chlorodifluoromethane   | 3.02  | 51   | 43251    | 0.425  | ppbv   | 92     |
| 9) Propene                 | 3.04  | 41   | 3519487  | 86.435 | ppbv   | 96     |
| 10) Heptane                | 8.26  | 43   | 72024m   | 0.463  | ppbv   |        |
| 11) Trichlorofluoromethane | 4.01  | 101  | 53657    | 0.309  | ppbv   | 97     |
| 13) Ethanol                | 3.66  | 45   | 747179   | 56.024 | ppbv   | 98     |
| 15) Acetone                | 3.90  | 43   | 2223185  | 18.969 | ppbv # | 81     |
| 26) Hexane                 | 5.79  | 57   | 249453   | 2.051  | ppbv # | 43     |
| 27) Carbon Disulfide       | 4.63  | 76   | 831270   | 5.391  | ppbv   | 99     |
| 29) Chloroform             | 5.86  | 83   | 156016   | 0.720  | ppbv   | 97     |
| 30) Cyclohexane            | 7.26  | 84   | 36244m   | 0.341  | ppbv   |        |
| 34) 2-Butanone             | 5.33  | 43   | 5000434  | 28.324 | ppbv   | 98     |
| 35) Carbon Tetrachloride   | 7.14  | 117  | 17467m   | 0.064  | ppbv   |        |
| 36) Benzene                | 7.01  | 78   | 4139542  | 15.272 | ppbv   | 98     |
| 38) Trichloroethene        | 7.97  | 130  | 6174     | 0.056  | ppbv # | 81     |
| 41) Tetrahydrofuran        | 6.16  | 42   | 125221   | 1.237  | ppbv   | 98     |
| 42) Bromodichloromethane   | 7.93  | 83   | 71064    | 0.287  | ppbv # | 98     |
| 44) 2,2,4-Trimethylpentane | 8.00  | 57   | 208504   | 0.460  | ppbv # | 35     |
| 48) Dibromochloromethane   | 10.46 | 129  | 30902    | 0.149  | ppbv   | 97     |
| 50) 4-Methyl-2-Pentanone   | 8.89  | 43   | 60845    | 0.221  | ppbv   | 97     |
| 51) 2-Hexanone             | 10.28 | 43   | 537059   | 3.023  | ppbv # | 97     |
| 52) Tetrachloroethene      | 11.39 | 164  | 21054    | 0.223  | ppbv # | 81     |
| 53) Toluene                | 9.96  | 91   | 2423258  | 8.570  | ppbv   | 100    |
| 58) Ethyl Benzene          | 12.88 | 91   | 199751m  | 0.502  | ppbv   |        |
| 59) m/p-Xylene             | 13.13 | 91   | 804530   | 2.270  | ppbv   | 97     |
| 60) o-Xylene               | 13.86 | 91   | 361132   | 1.013  | ppbv   | 99     |
| 61) Styrene                | 13.70 | 104  | 56161m   | 0.242  | ppbv   |        |
| 69) p-Isopropyltoluene     | 17.83 | 119  | 454435   | 0.918  | ppbv   | 96     |
| 72) 4-Ethyltoluene         | 16.01 | 105  | 88110m   | 0.226  | ppbv   |        |
| 73) 1,3,5-Trimethylbenzene | 16.16 | 105  | 190870   | 0.500  | ppbv   | 94     |
| 74) 1,2,4-Trimethylbenzene | 16.93 | 105  | 337657   | 0.826  | ppbv # | 70     |
| 79) Naphthalene            | 22.43 | 128  | 70933m   | 0.264  | ppbv   |        |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

Instrument :

MSVOA\_L

ClientSampled :

DSV-06

Tot Ion: 49 Resp: 1283398

Ion Ratio Lower Upper

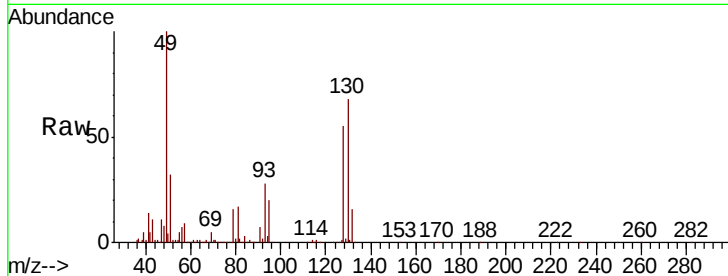
49 100

128 53.1 24.9 74.6

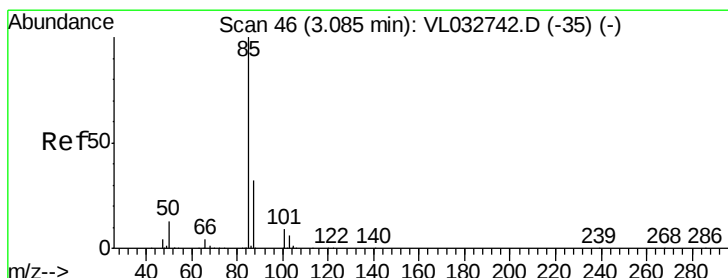
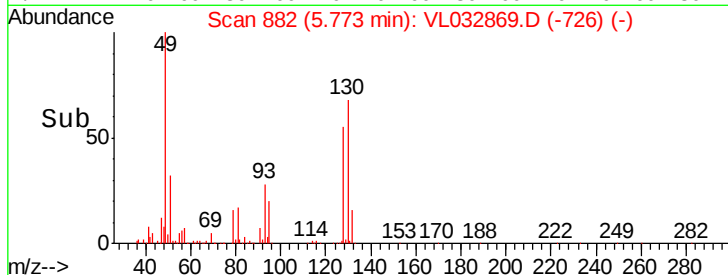
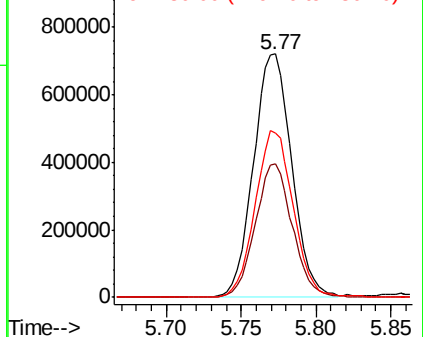
130 68.3 31.4 94.2

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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: 0.262 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032869.D

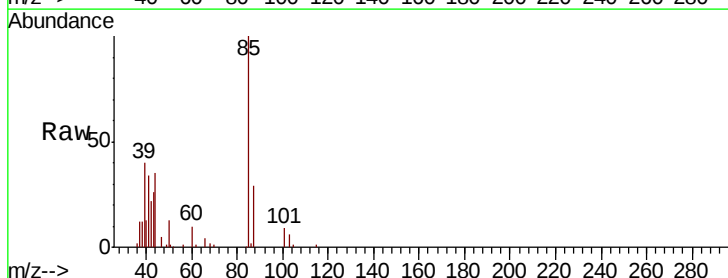
Acq: 1 Dec 2018 4:09

Tgt Ion: 85 Resp: 48276

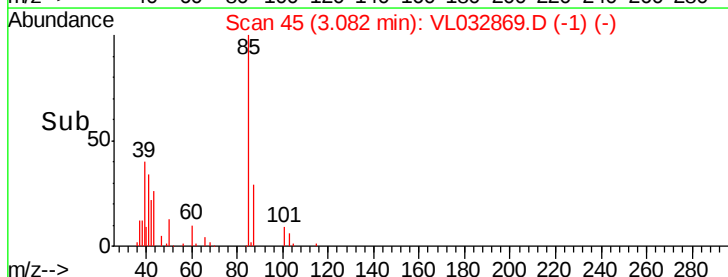
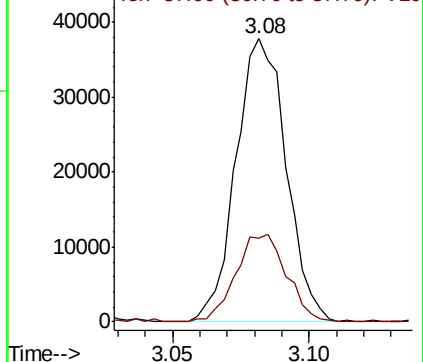
Ion Ratio Lower Upper

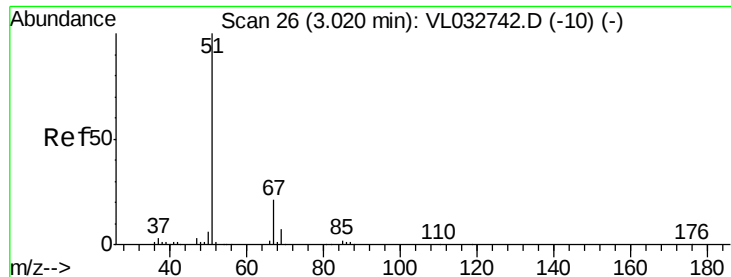
85 100

87 29.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0  
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.425 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

Instrument :

MSVOA\_L

ClientSampleId :

DSV-06

Tot Ion: 51 Resp: 43251

Ion Ratio Lower Upper

51 100

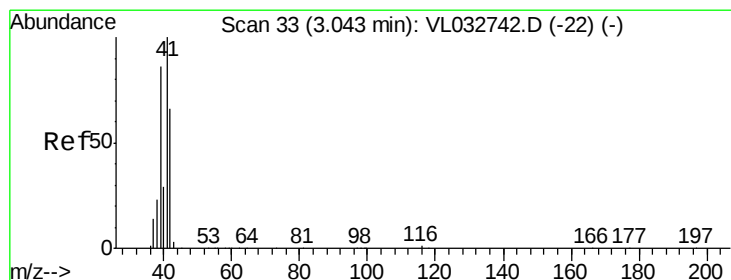
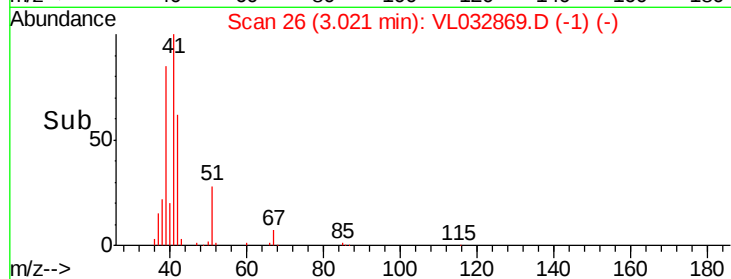
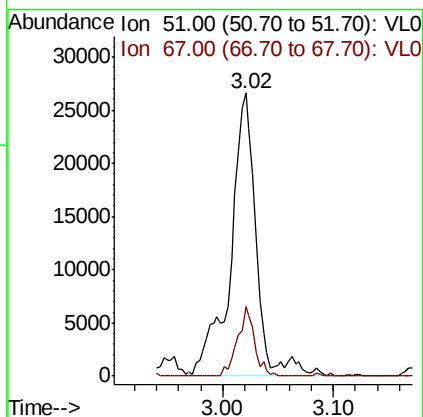
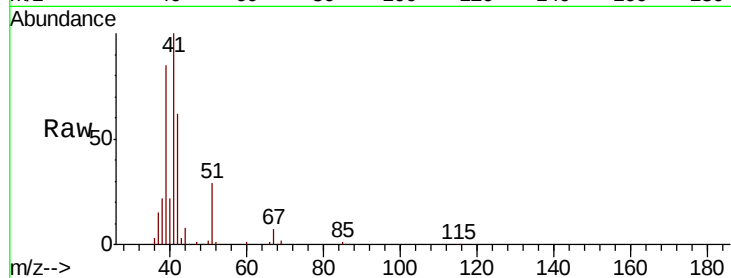
67 16.2 16.1 24.1

Manual Integrations

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#9

Propene

Concen: 86.435 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032869.D

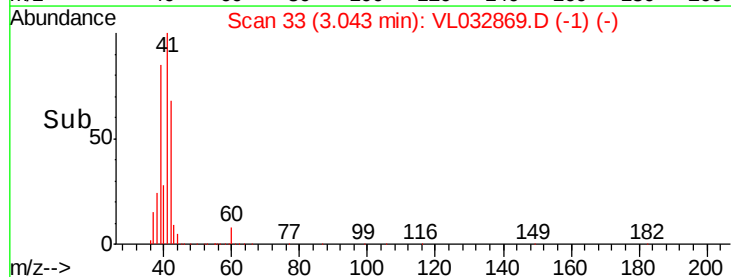
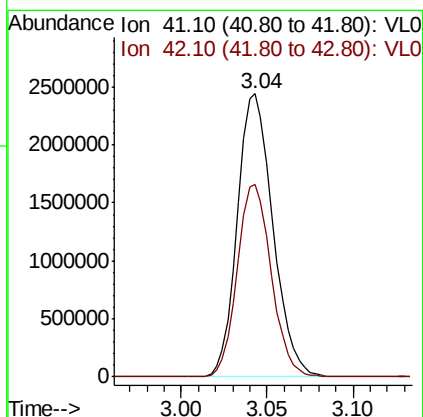
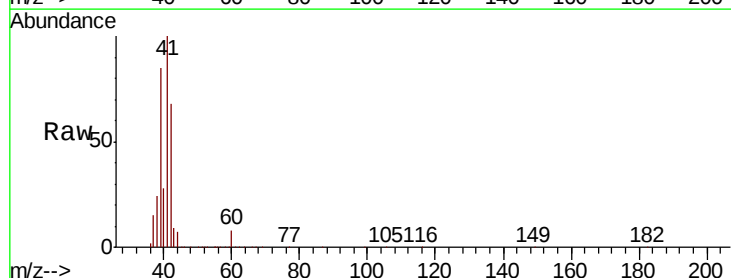
Acq: 1 Dec 2018 4:09

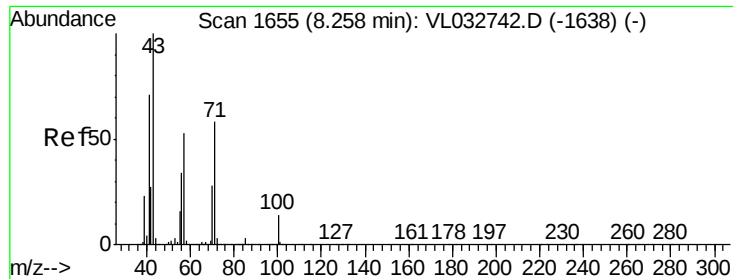
Tgt Ion: 41 Resp: 3519487

Ion Ratio Lower Upper

41 100

42 65.2 55.0 82.6





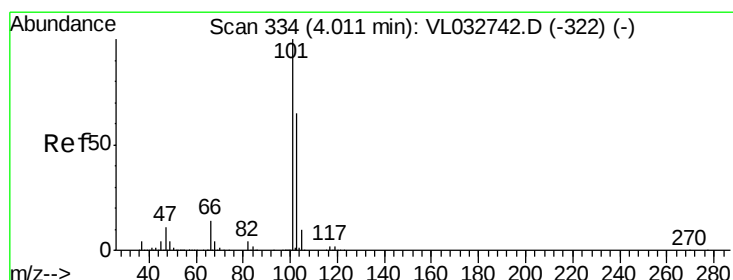
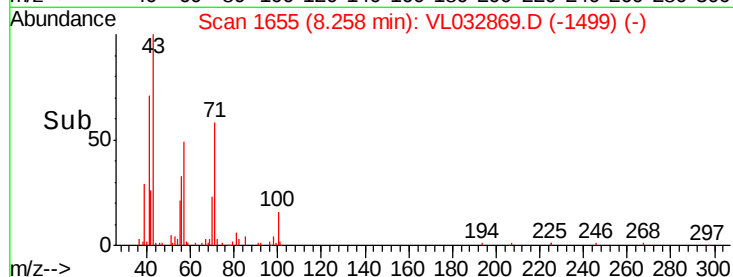
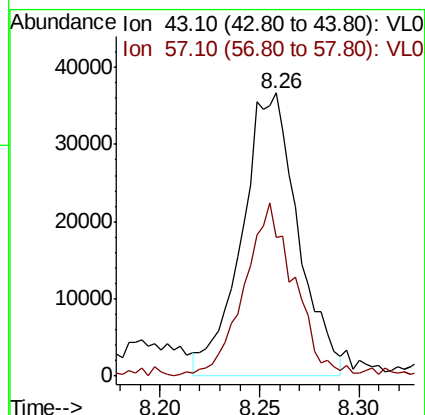
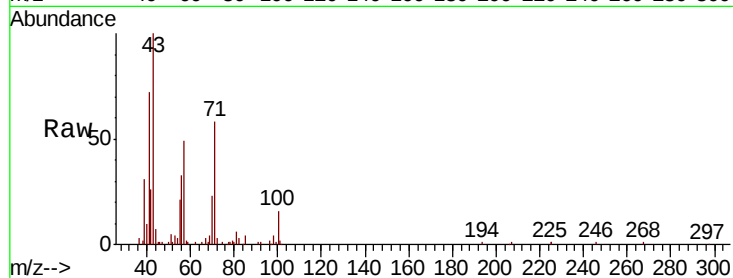
#10  
Heptane  
Concen: 0.463 ppbv m  
RT: 8.26 min Scan# 1655  
Delta R.T. 0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-06

Tot Ion: 43 Resp: 72024  
Ion Ratio Lower Upper  
43 100  
57 55.4 41.8 62.8

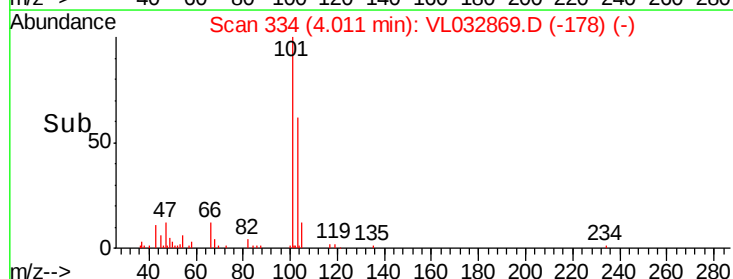
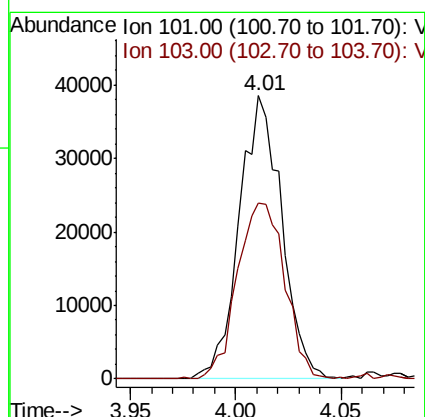
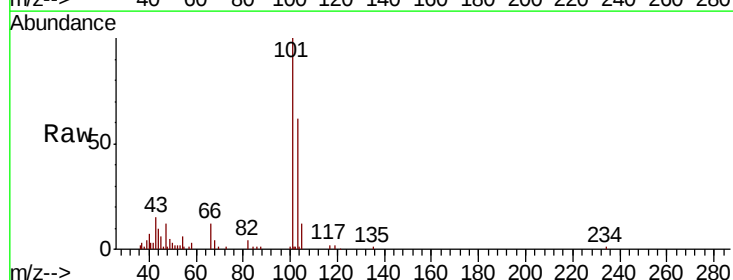
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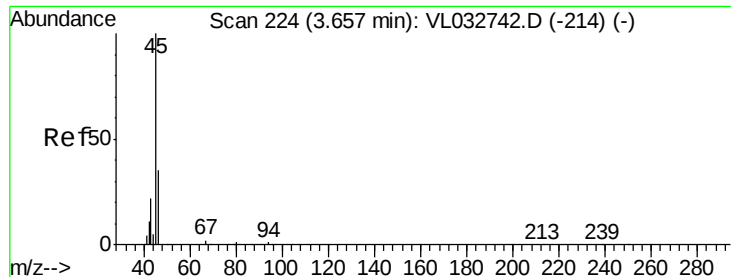
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#11  
Trichlorofluoromethane  
Concen: 0.309 ppbv  
RT: 4.01 min Scan# 334  
Delta R.T. 0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Tgt Ion: 101 Resp: 53657  
Ion Ratio Lower Upper  
101 100  
103 62.0 51.6 77.4





#13

Ethanol

Concen: 56.024 ppbv

RT: 3.66 min Scan# 224

Delta R.T. 0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

Instrument :

MSVOA\_L

ClientSampleId :

DSV-06

Tot Ion: 45 Resp: 747179

Ion Ratio Lower Upper

45 100

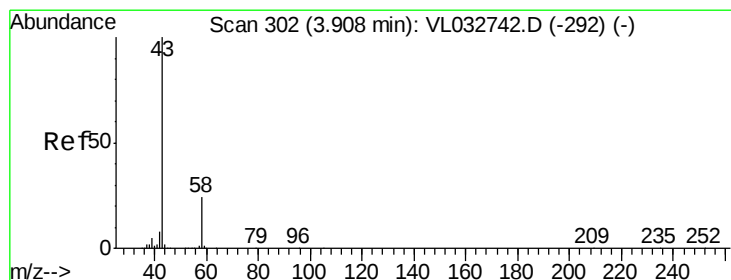
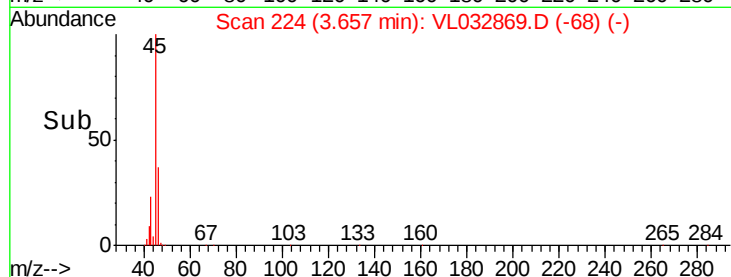
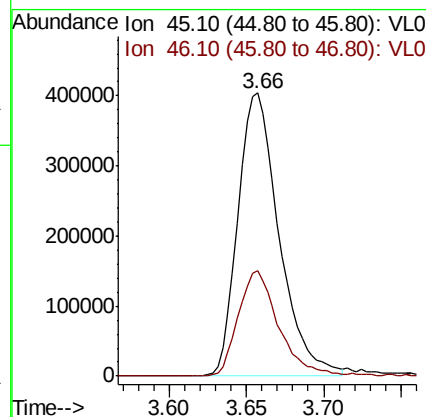
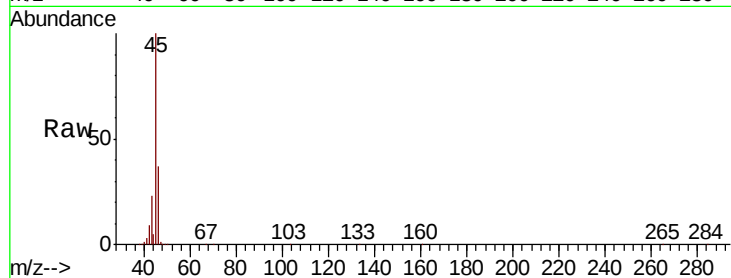
46 37.5 14.5 57.9

Manual Integrations

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#15

Acetone

Concen: 18.969 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032869.D

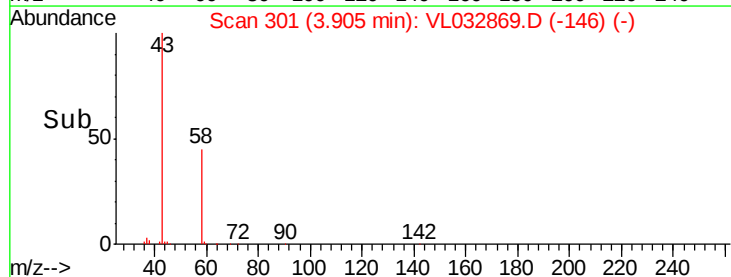
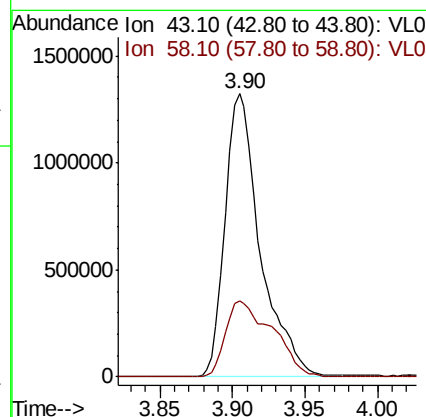
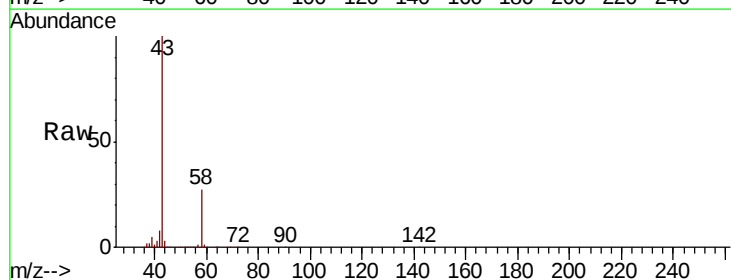
Acq: 1 Dec 2018 4:09

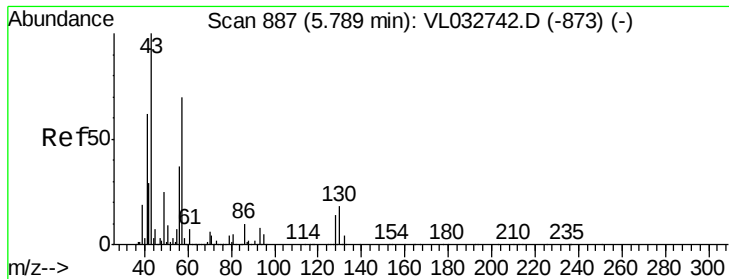
Tgt Ion: 43 Resp: 2223185

Ion Ratio Lower Upper

43 100

58 36.3 21.1 31.7#





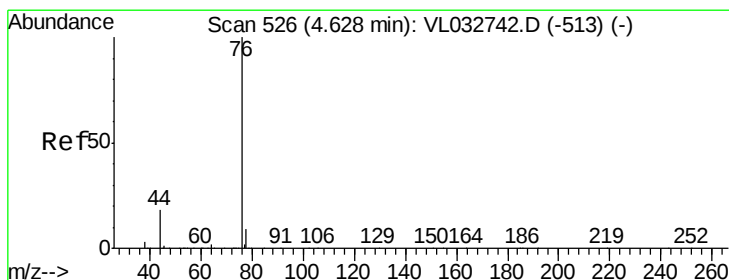
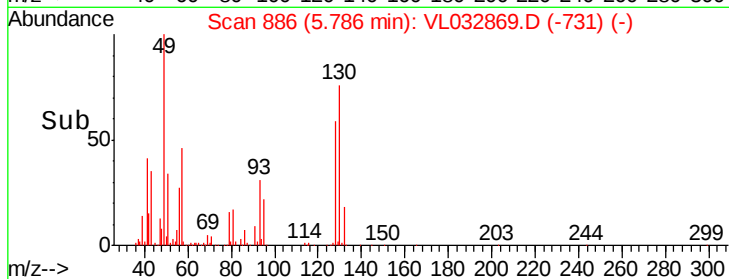
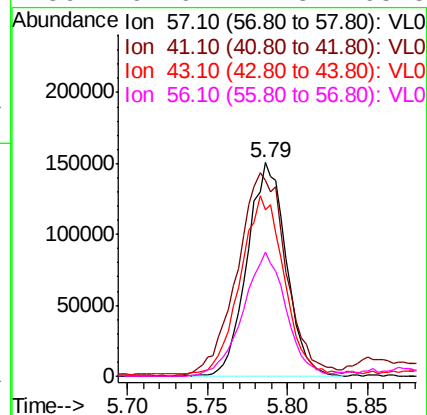
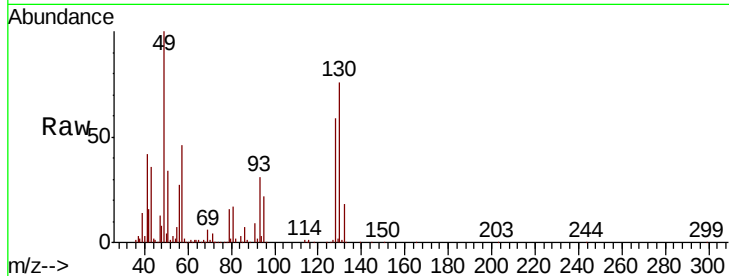
#26  
Hexane  
Concen: 2.051 ppbv  
RT: 5.79 min Scan# 886  
Delta R.T. -0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-06

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 57      | 100   |       |        |
| 41      | 119.7 | 70.3  | 105.5# |
| 43      | 95.3  | 174.0 | 261.0# |
| 56      | 64.9  | 42.3  | 63.5#  |

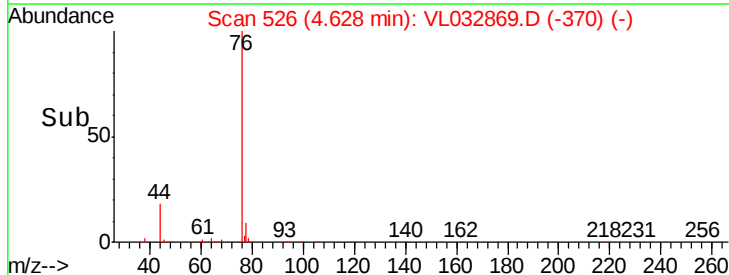
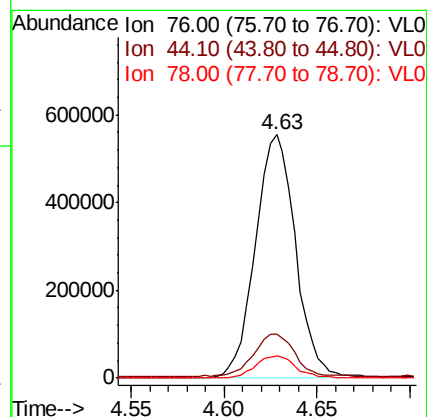
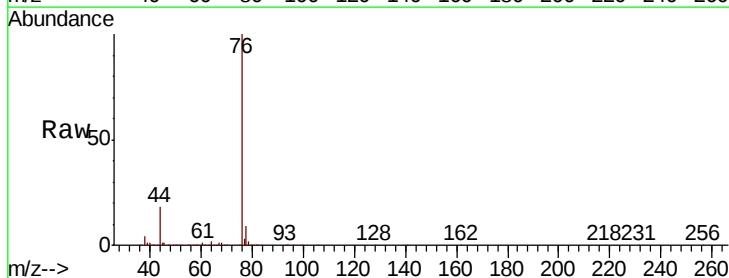
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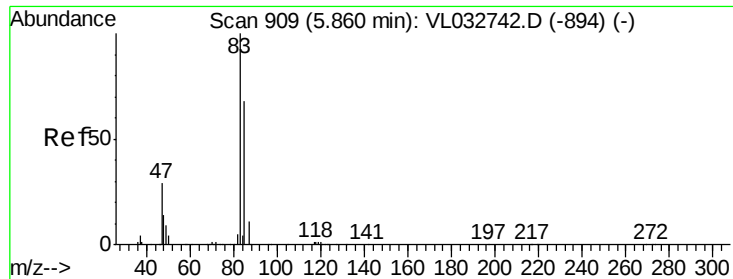
MMDadoda  
12/3/2018 4:17:10 PM



#27  
Carbon Disulfide  
Concen: 5.391 ppbv  
RT: 4.63 min Scan# 526  
Delta R.T. 0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 18.8  | 14.4  | 21.6  |
| 78      | 9.4   | 7.7   | 11.5  |





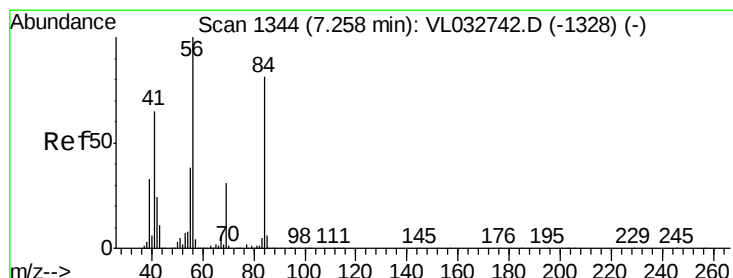
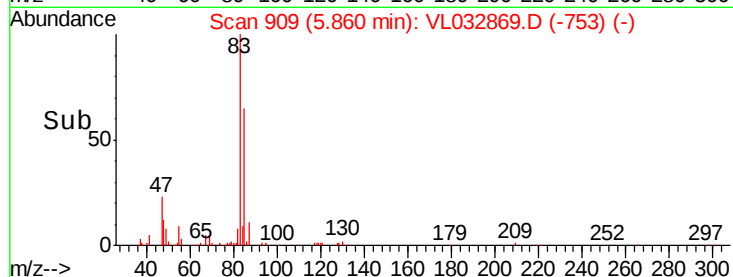
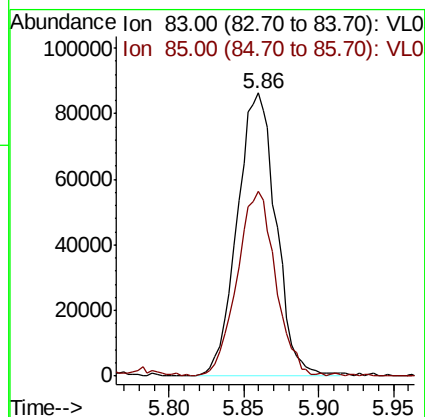
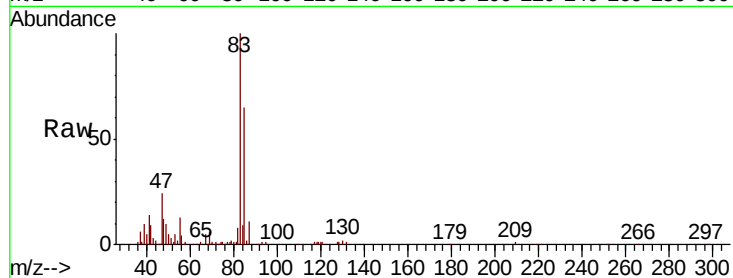
#29  
Chloroform  
Concen: 0.720 ppbv  
RT: 5.86 min Scan# 909  
Delta R.T. 0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Instrument :  
MSVOA\_L  
ClientSampled :  
DSV-06

| Tot Ion   | 83   | Resp  | 156016 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 83        | 100  |       |        |
| 85        | 65.4 | 54.2  | 81.4   |

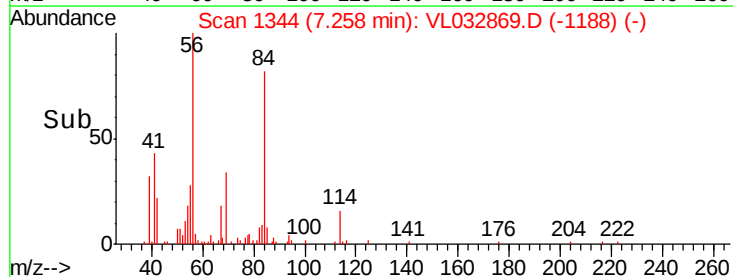
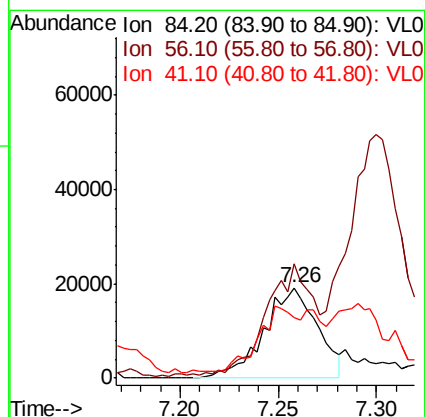
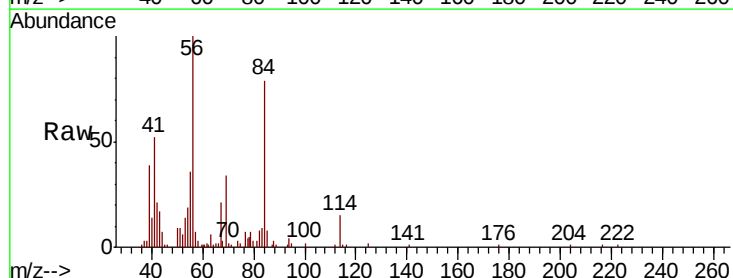
Manual Integrations  
APPROVED

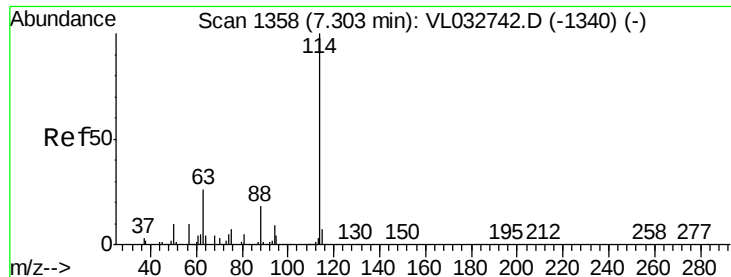
MMDadoda  
12/3/2018 4:17:10 PM



#30  
Cyclohexane  
Concen: 0.341 ppbv m  
RT: 7.26 min Scan# 1344  
Delta R.T. 0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

| Tgt Ion   | 84  | Resp  | 36244  |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 84        | 100 |       |        |
| 56        | 0.0 | 105.0 | 157.4# |
| 41        | 0.0 | 65.3  | 97.9#  |





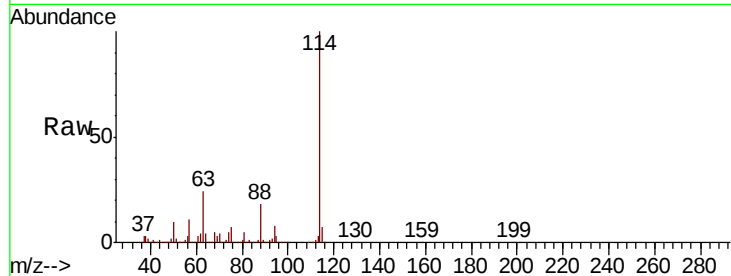
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.30 min Scan# 1357  
 Delta R.T. -0.00 min  
 Lab File: VL032869.D  
 Acq: 1 Dec 2018 4:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-06

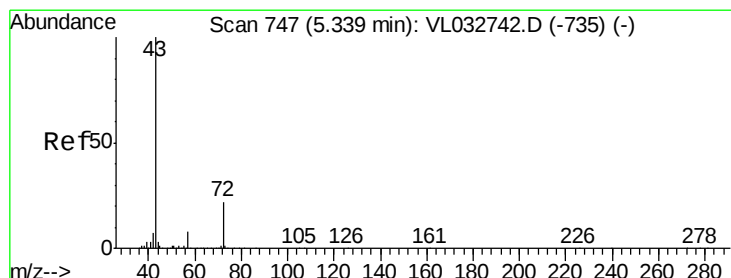
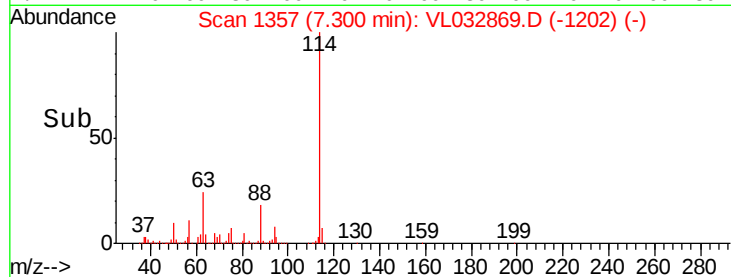
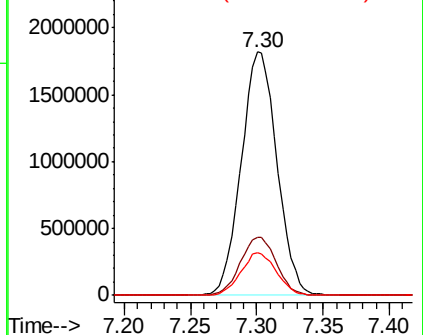
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.3  | 20.9  | 31.3  |
| 88      | 17.4  | 14.4  | 21.6  |

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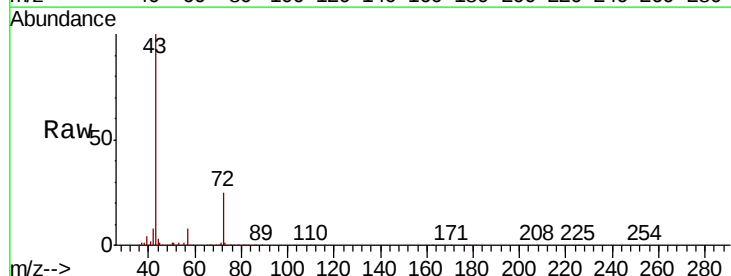


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

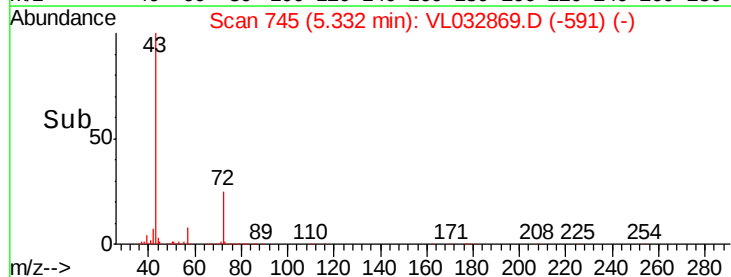
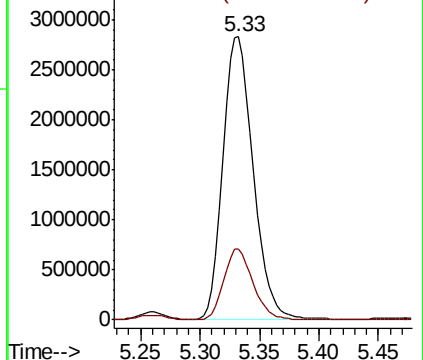


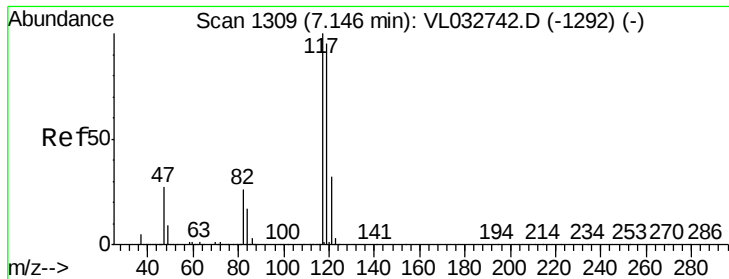
#34  
 2-Butanone  
 Concen: 28.324 ppbv  
 RT: 5.33 min Scan# 745  
 Delta R.T. -0.01 min  
 Lab File: VL032869.D  
 Acq: 1 Dec 2018 4:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 24.2  | 18.4  | 27.6  |



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





#35

Carbon Tetrachloride

Concen: 0.064 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. -0.01 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

Instrument :

MSVOA\_L

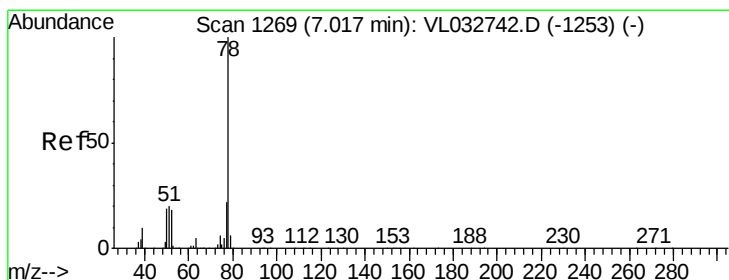
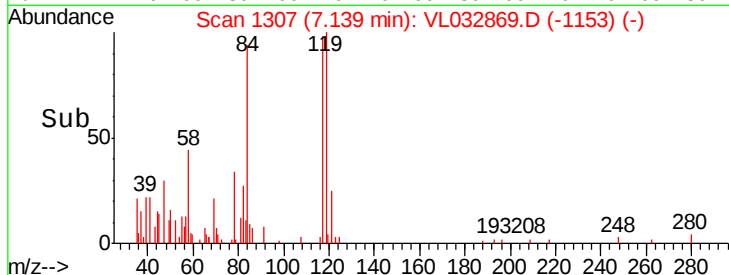
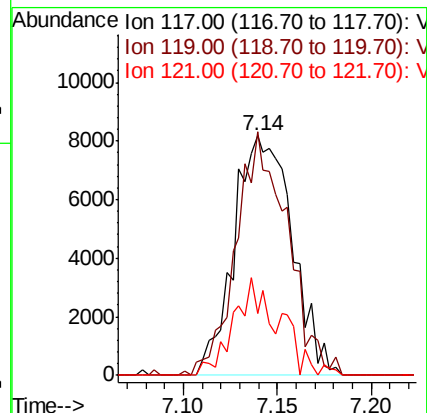
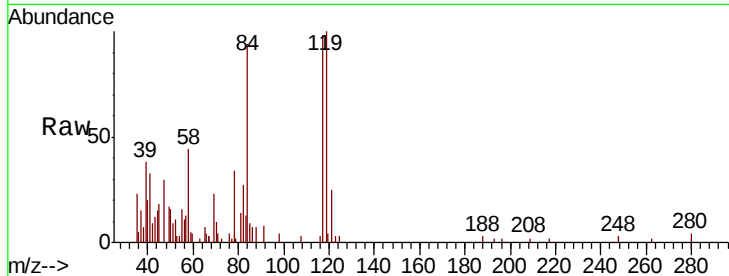
ClientSampled :

DSV-06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 101.8 | 76.1  | 114.1 |
| 121     | 25.8  | 25.4  | 38.0  |

Manual Integrations  
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12/3/2018 4:17:10 PM



#36

Benzene

Concen: 15.272 ppbv

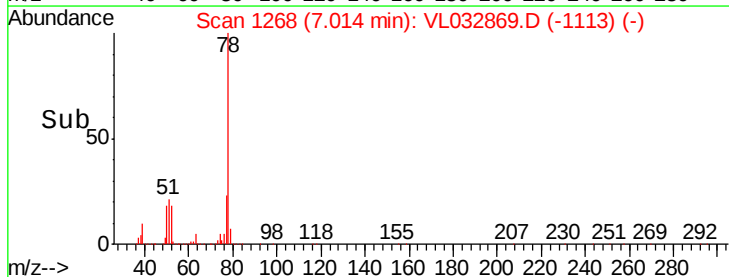
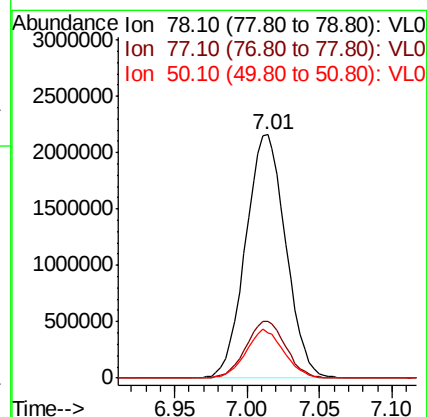
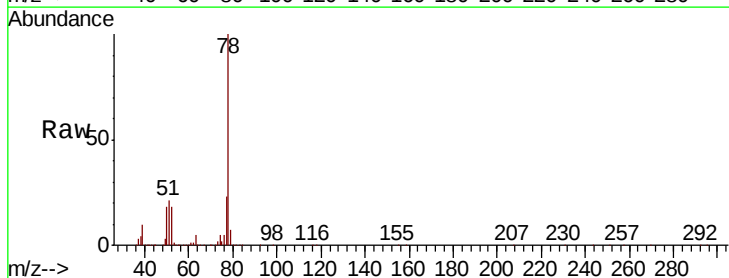
RT: 7.01 min Scan# 1268

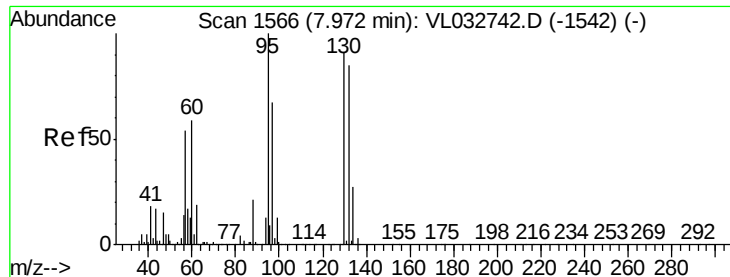
Delta R.T. -0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.0  | 17.8  | 26.8  |
| 50      | 18.4  | 15.4  | 23.0  |





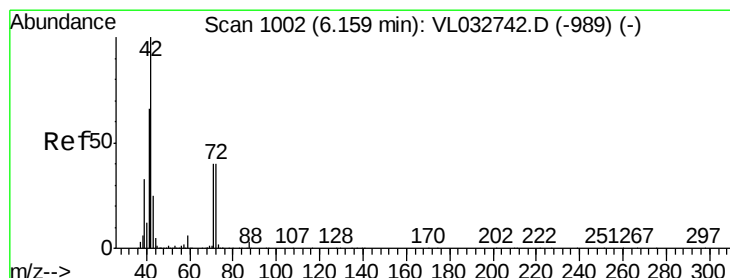
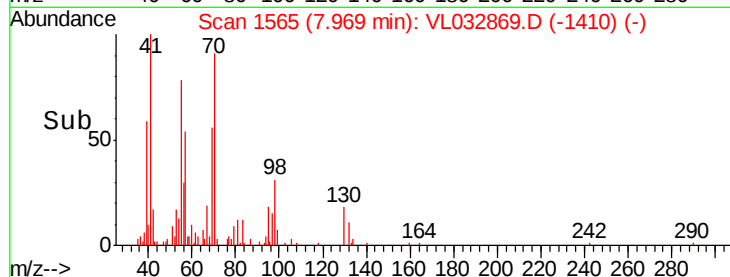
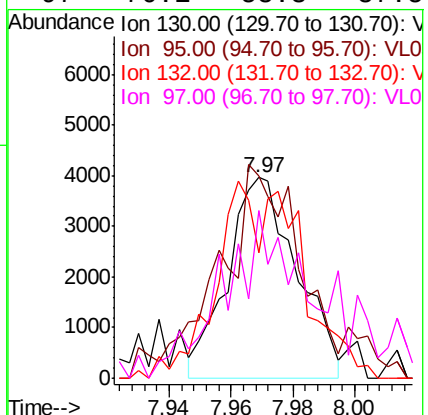
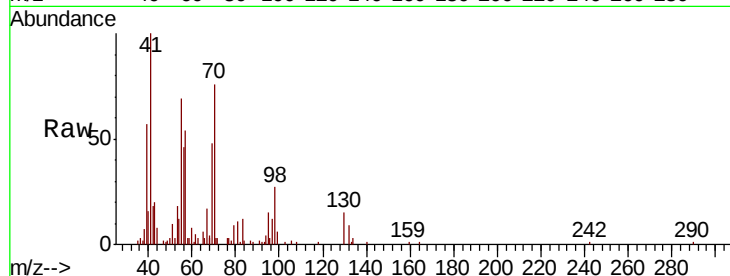
#38  
 Trichloroethene  
 Concen: 0.056 ppbv  
 RT: 7.97 min Scan# 1565  
 Delta R.T. -0.00 min  
 Lab File: VL032869.D  
 Acq: 1 Dec 2018 4:09

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 130   | Resp: | 6174   |
| Ion Ratio | Lower | Upper |        |
| 130       | 100   |       |        |
| 95        | 97.4  | 87.7  | 131.5  |
| 132       | 55.5  | 74.6  | 111.8# |
| 97        | 76.1  | 58.3  | 87.5   |

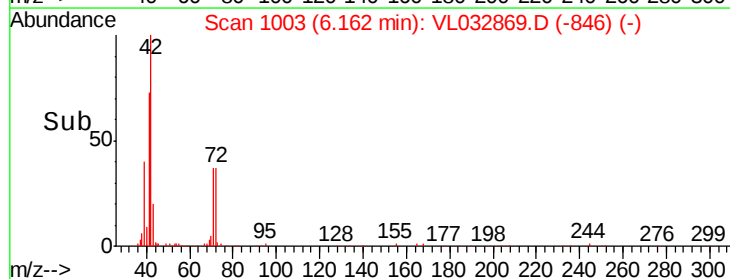
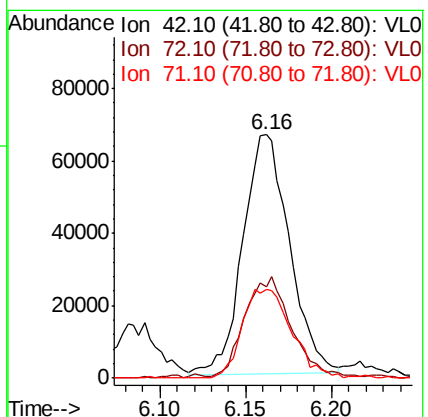
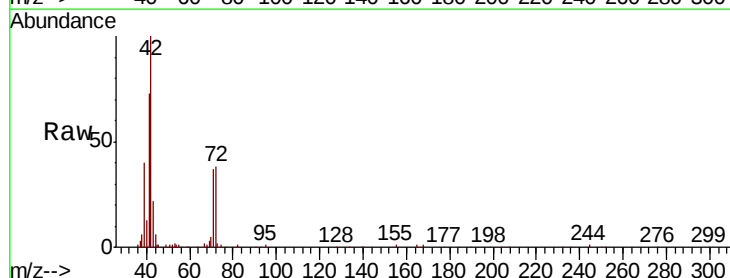
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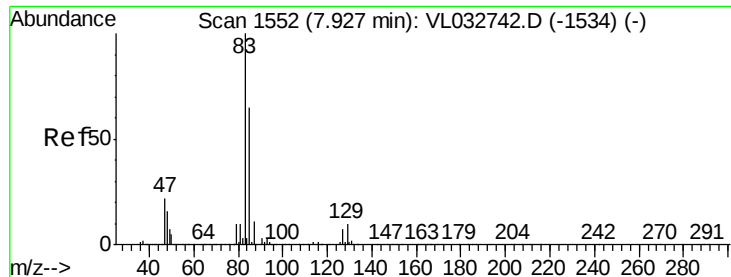
MMDadoda  
 12/3/2018 4:17:10 PM



#41  
 Tetrahydrofuran  
 Concen: 1.237 ppbv  
 RT: 6.16 min Scan# 1003  
 Delta R.T. 0.00 min  
 Lab File: VL032869.D  
 Acq: 1 Dec 2018 4:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 42    | Resp: | 125221 |
| Ion Ratio | Lower | Upper |        |
| 42        | 100   |       |        |
| 72        | 43.3  | 32.4  | 48.6   |
| 71        | 39.7  | 31.6  | 47.4   |





#42

Bromodichloromethane

Concen: 0.287 ppbv

RT: 7.93 min Scan# 1552

Delta R.T. 0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

Instrument :

MSVOA\_L

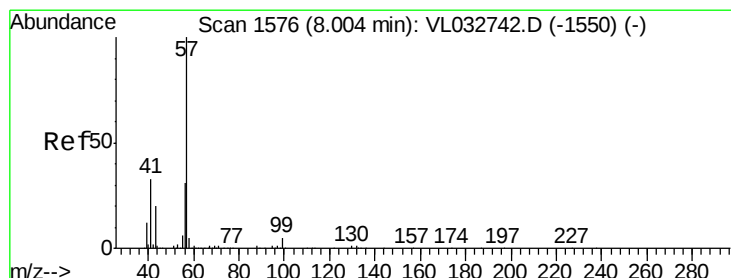
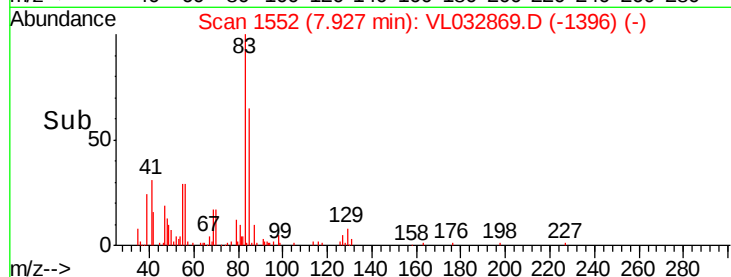
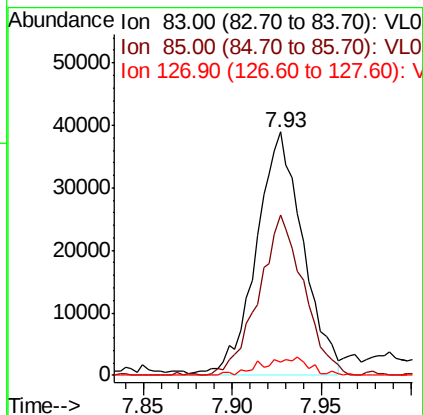
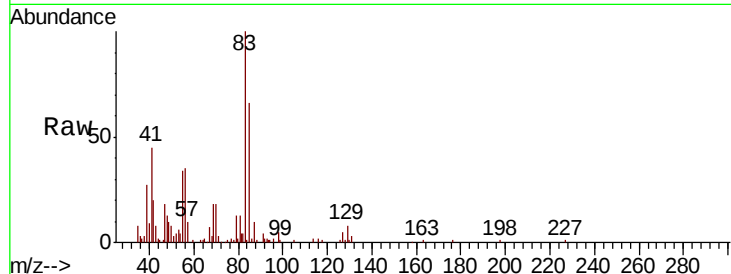
ClientSampled :

DSV-06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 83    | Resp: | 71064 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 65.9  | 51.8  | 77.8  |
| 127       | 5.3   | 5.9   | 8.9#  |

Manual Integrations  
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#44

2,2,4-Trimethylpentane

Concen: 0.460 ppbv

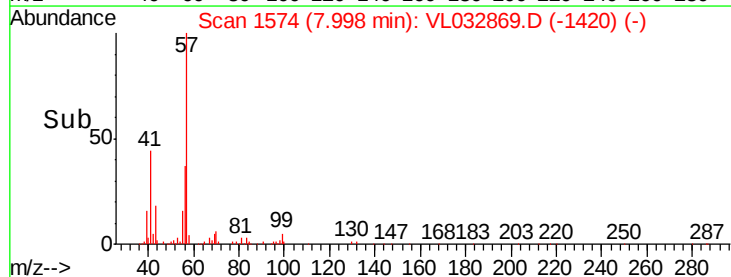
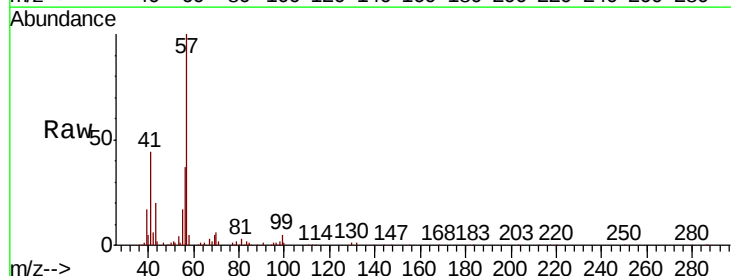
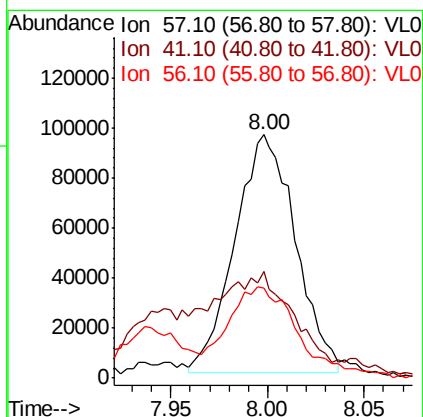
RT: 8.00 min Scan# 1574

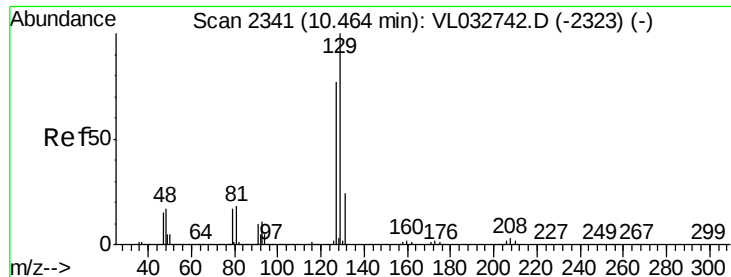
Delta R.T. -0.01 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 57    | Resp: | 208504 |
| Ion Ratio | Lower | Upper |        |
| 57        | 100   |       |        |
| 41        | 90.4  | 26.6  | 39.8#  |
| 56        | 45.3  | 24.8  | 37.2#  |





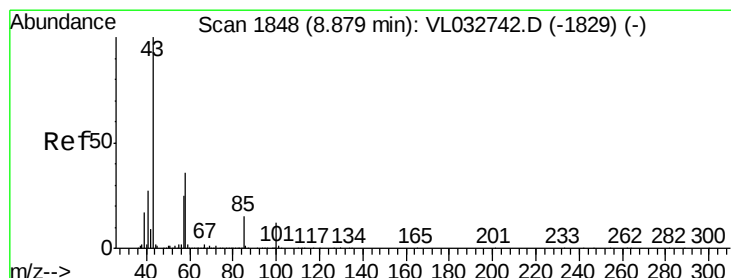
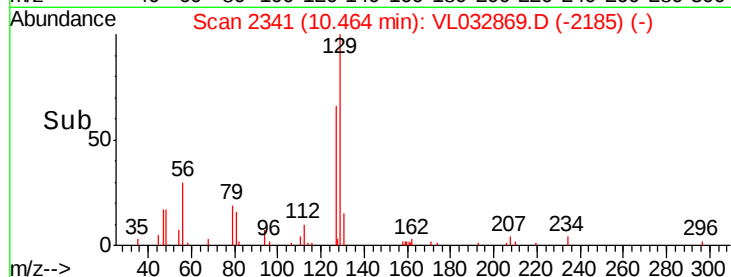
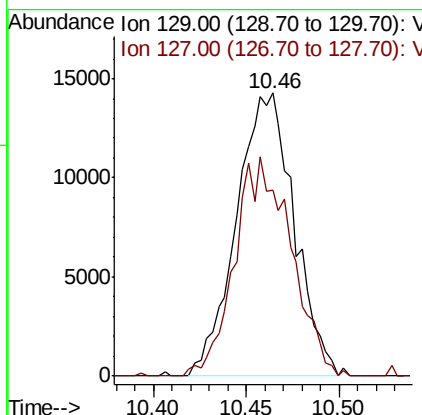
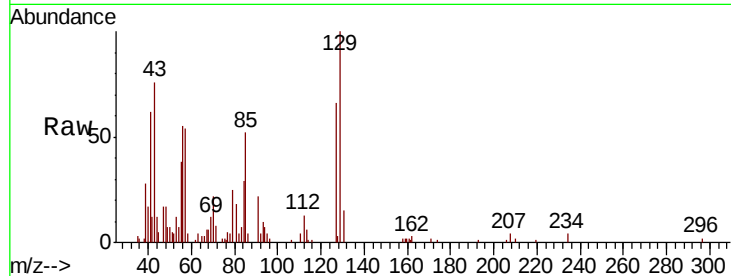
#48  
 Dibromochloromethane  
 Concen: 0.149 ppbv  
 RT: 10.46 min Scan# 2341  
 Delta R.T. 0.00 min  
 Lab File: VL032869.D  
 Acq: 1 Dec 2018 4:09

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 DSV-06

Tot Ion:129 Resp: 30902  
 Ion Ratio Lower Upper  
 129 100  
 127 75.4 39.0 117.0

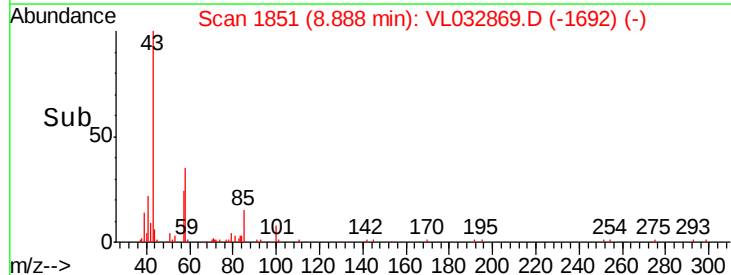
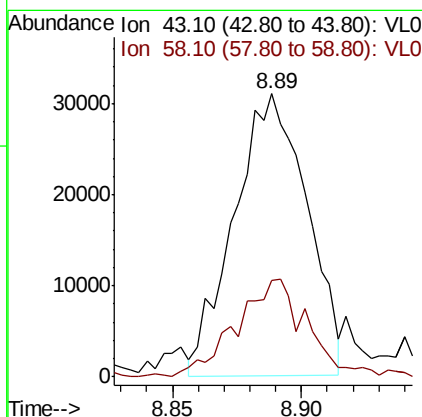
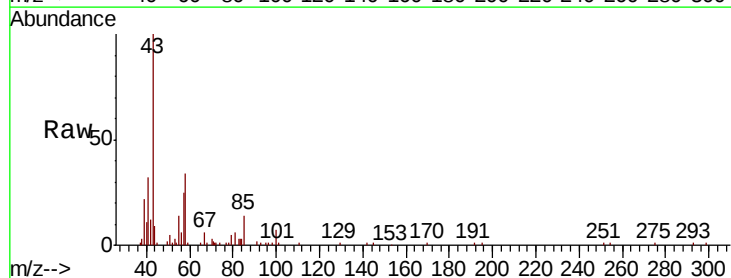
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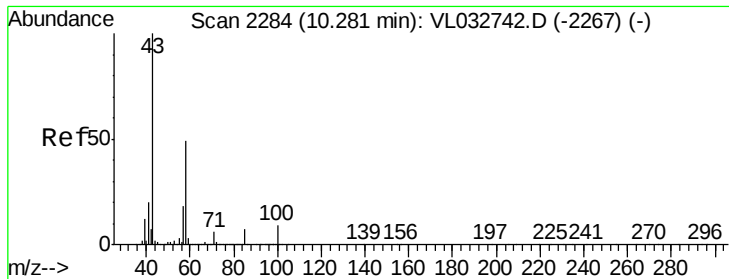
MMDadoda  
 12/3/2018 4:17:10 PM



#50  
 4-Methyl-2-Pentanone  
 Concen: 0.221 ppbv  
 RT: 8.89 min Scan# 1851  
 Delta R.T. 0.01 min  
 Lab File: VL032869.D  
 Acq: 1 Dec 2018 4:09

Tgt Ion: 43 Resp: 60845  
 Ion Ratio Lower Upper  
 43 100  
 58 34.5 28.8 43.2





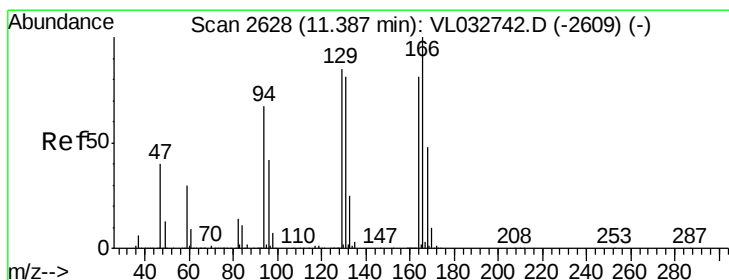
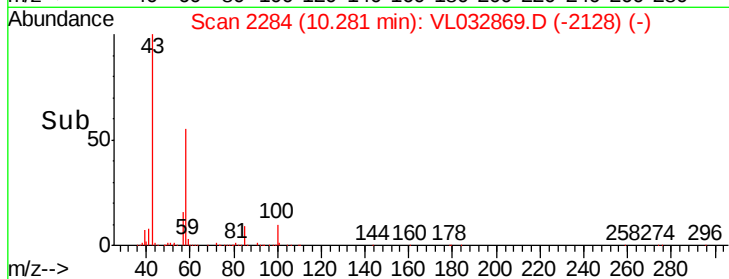
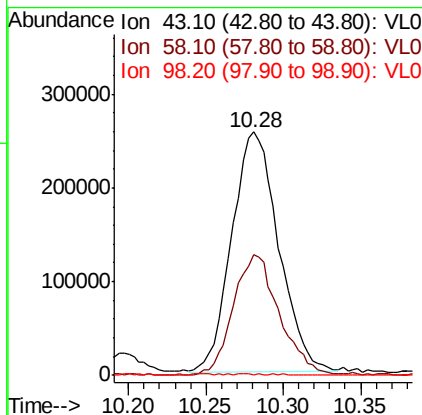
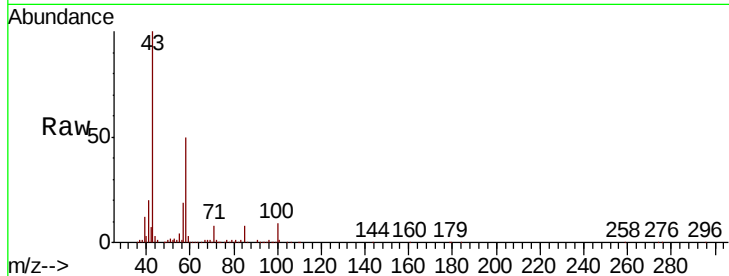
#51  
2-Hexanone  
Concen: 3.023 ppbv  
RT: 10.28 min Scan# 2284  
Delta R.T. 0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 50.5  | 38.9  | 58.3  |
| 98      | 1.2   | 0.2   | 0.4   |

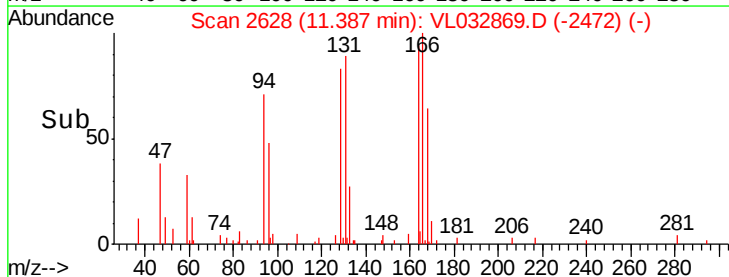
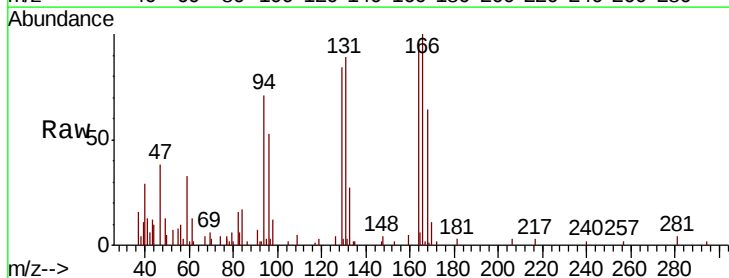
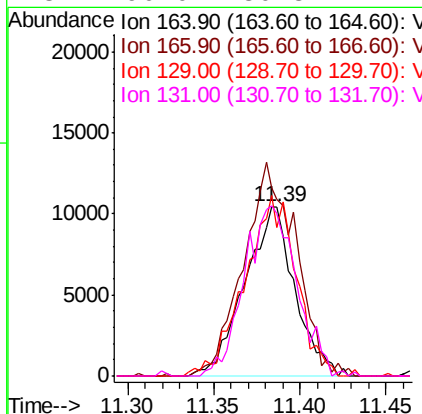
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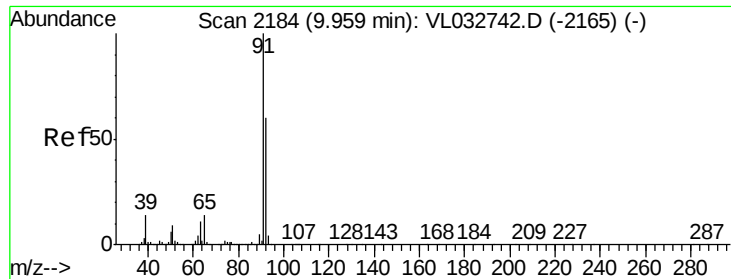
MMDadoda  
12/3/2018 4:17:10 PM



#52  
Tetrachloroethene  
Concen: 0.223 ppbv  
RT: 11.39 min Scan# 2628  
Delta R.T. 0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 98.1  | 99.3  | 148.9# |
| 129     | 82.8  | 83.9  | 125.9# |
| 131     | 90.0  | 80.8  | 121.2  |





#53

Toluene

Concen: 8.570 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

Instrument :

MSVOA\_L

ClientSampled :

DSV-06

Tot Ion: 91 Resp: 2423258

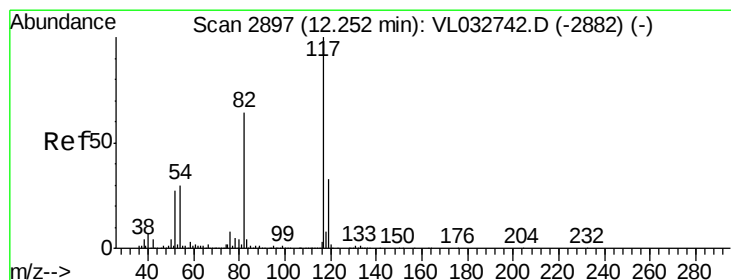
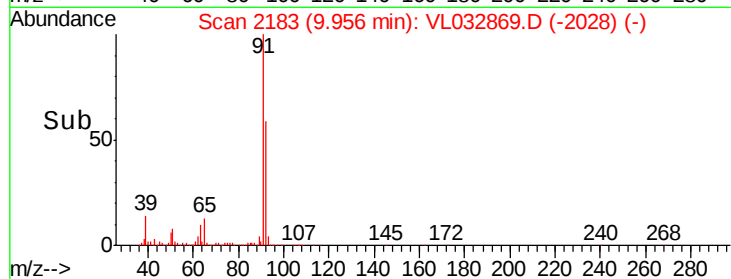
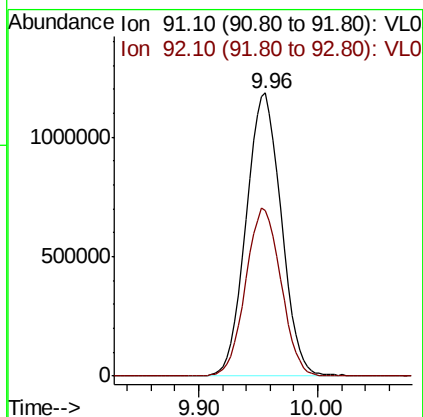
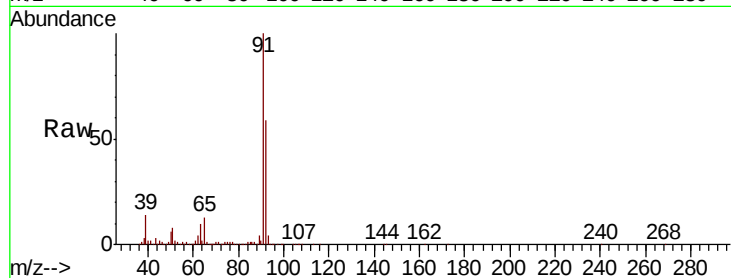
Ion Ratio Lower Upper

91 100

92 59.8 47.9 71.9

Manual Integrations  
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12/3/2018 4:17:10 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

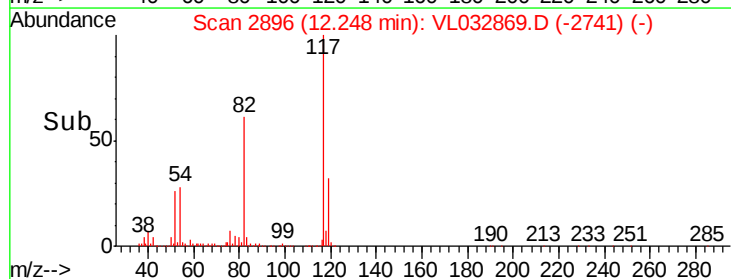
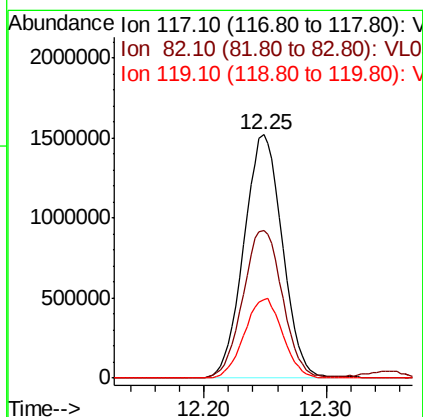
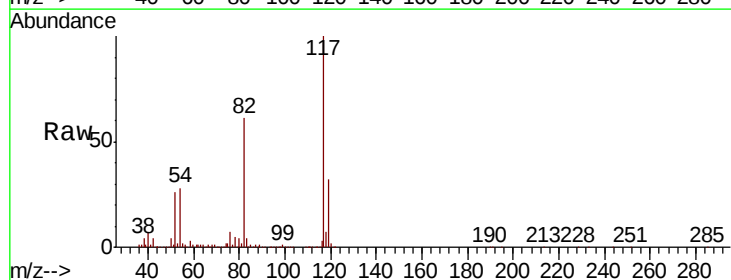
Tgt Ion: 117 Resp: 3308849

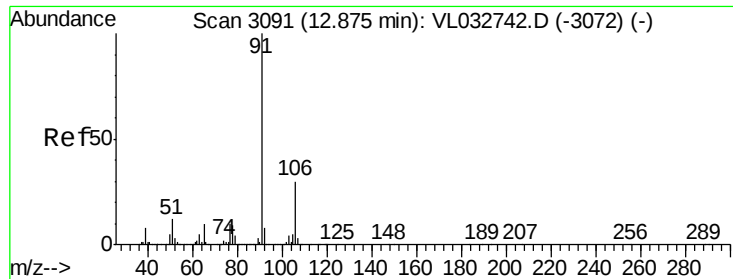
Ion Ratio Lower Upper

117 100

82 62.5 51.0 76.6

119 32.7 28.0 42.0





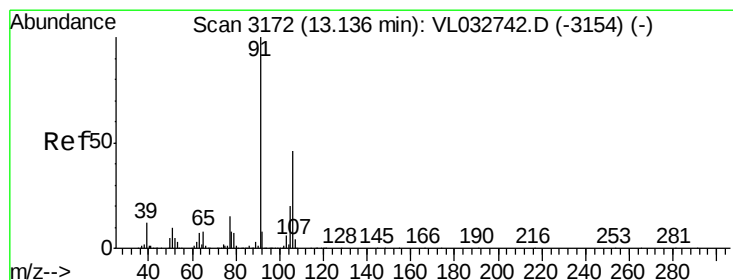
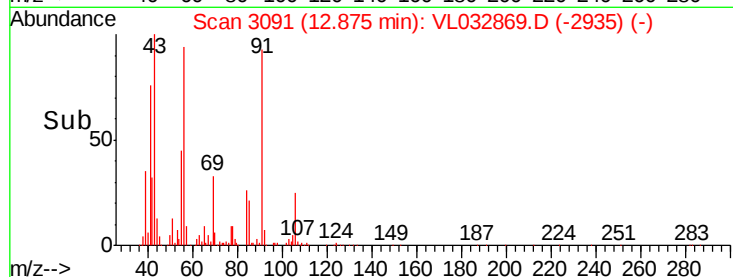
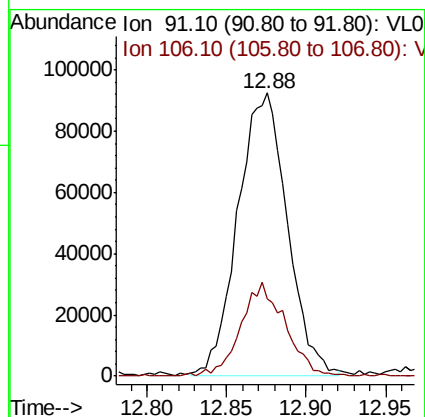
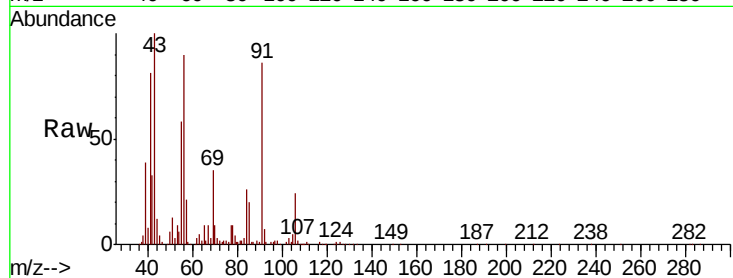
#58  
Ethyl Benzene  
Concen: 0.502 ppbv m  
RT: 12.88 min Scan# 3091  
Delta R.T. 0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Instrument :  
MSVOA\_L  
ClientSampled :  
DSV-06

Tot Ion: 91 Resp: 199751  
Ion Ratio Lower Upper  
91 100  
106 27.4 23.6 35.4

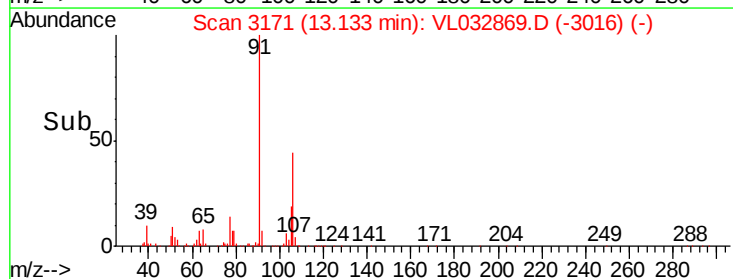
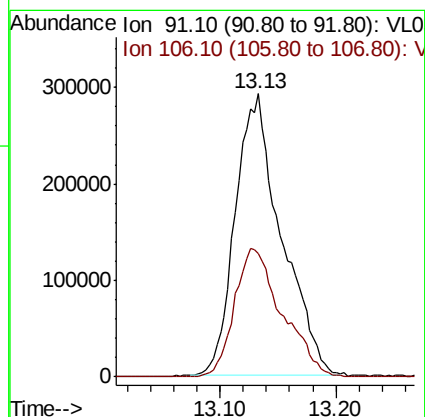
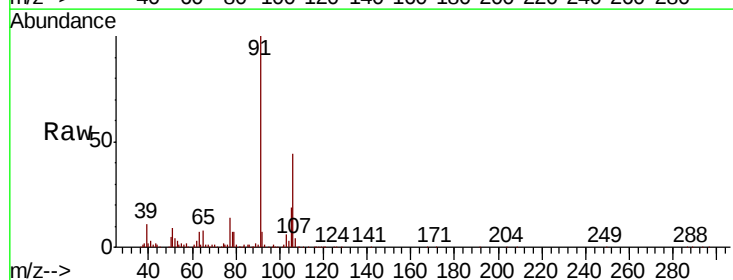
Manual Integrations  
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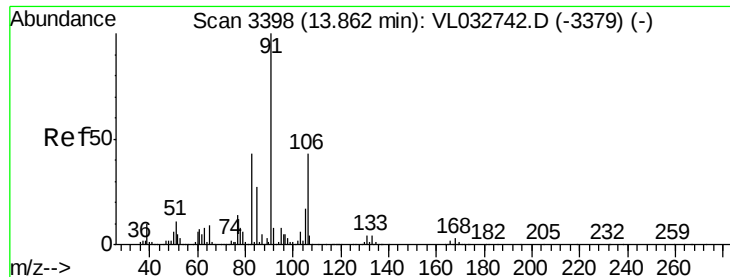
MMDadoda  
12/3/2018 4:17:10 PM



#59  
m/p-Xylene  
Concen: 2.270 ppbv  
RT: 13.13 min Scan# 3171  
Delta R.T. -0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Tgt Ion: 91 Resp: 804530  
Ion Ratio Lower Upper  
91 100  
106 47.3 36.1 54.1





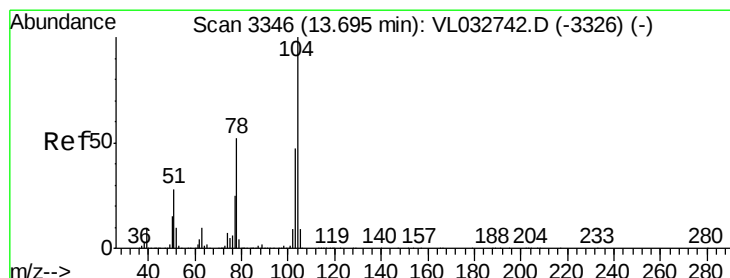
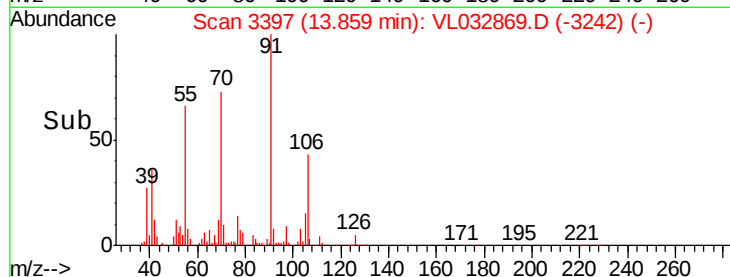
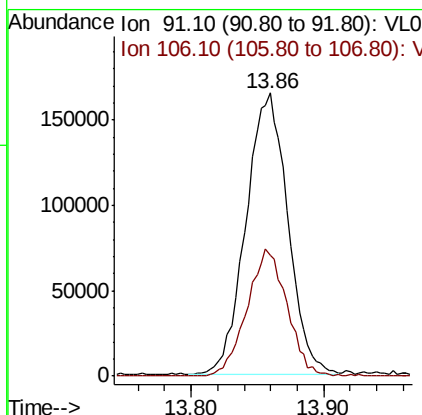
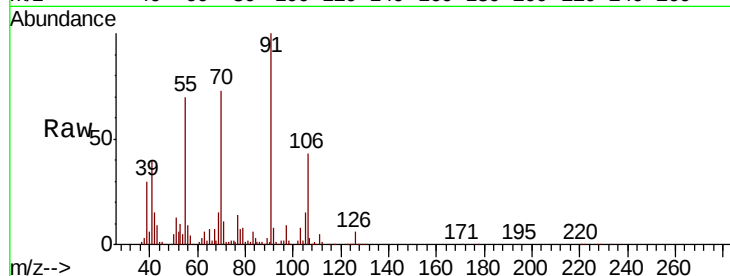
#60  
o-Xylene  
Concen: 1.013 ppbv  
RT: 13.86 min Scan# 3397  
Delta R.T. -0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Instrument :  
MSVOA\_L  
ClientSampled :  
DSV-06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 43.3  | 21.9  | 65.7  |

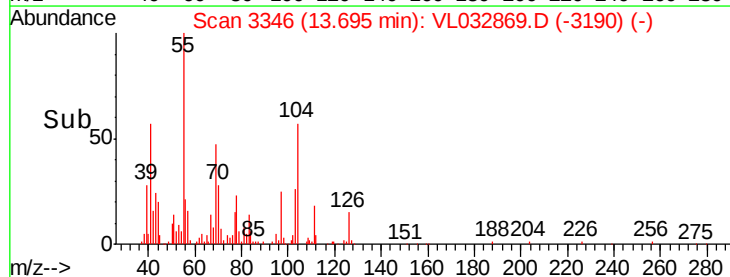
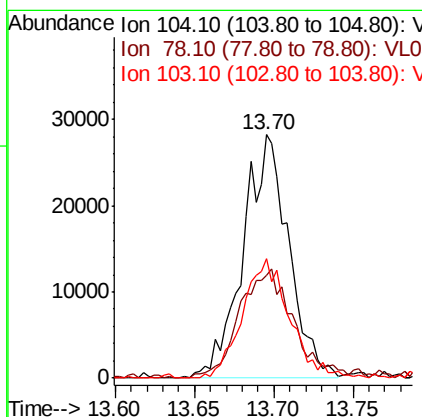
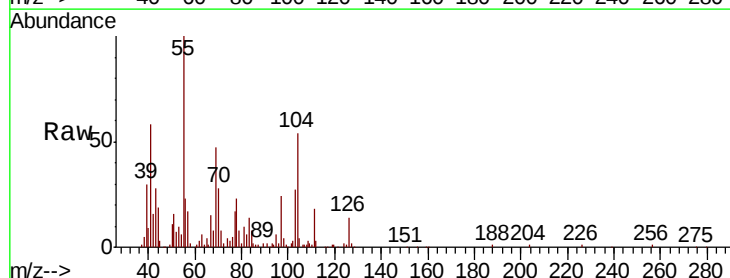
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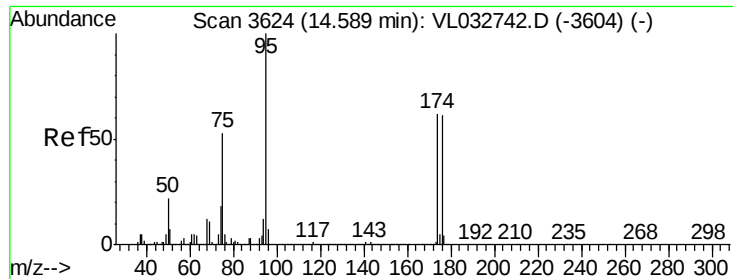
MMDadoda  
12/3/2018 4:17:10 PM



#61  
Styrene  
Concen: 0.242 ppbv m  
RT: 13.70 min Scan# 3346  
Delta R.T. 0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 54.5  | 42.2  | 63.4  |
| 103     | 50.3  | 38.2  | 57.2  |





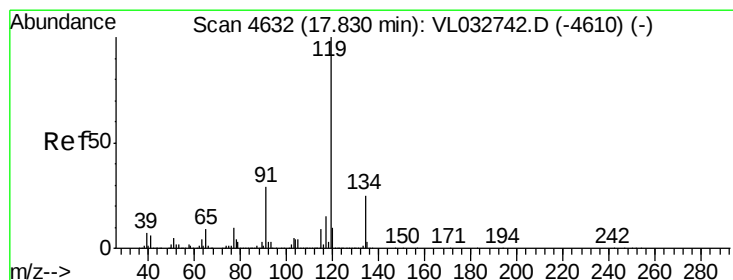
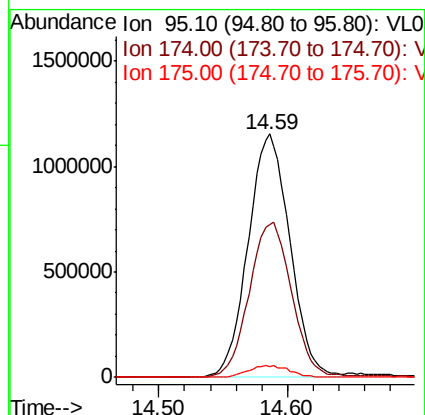
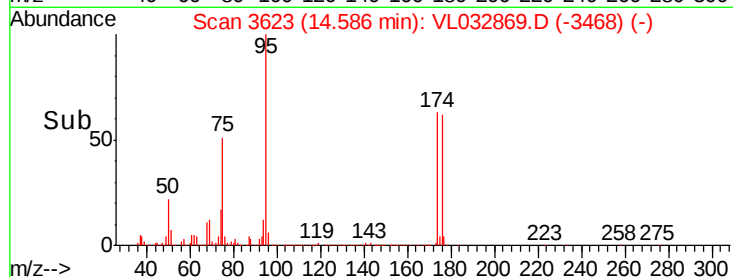
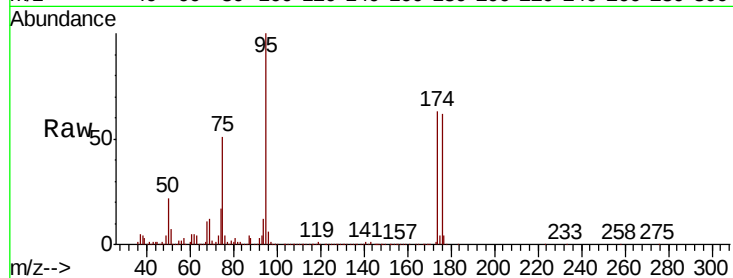
#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.505 ppbv  
RT: 14.59 min Scan# 3623  
Delta R.T. -0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-06

Tot Ion: 95 Resp: 2599789  
Ion Ratio Lower Upper  
95 100  
174 65.1 50.7 76.1  
175 4.9 3.8 5.6

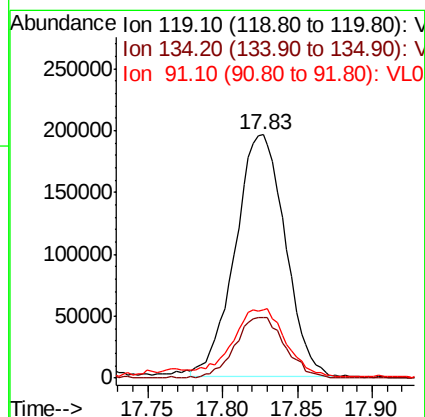
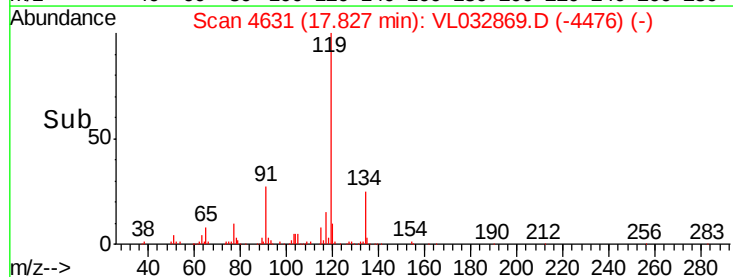
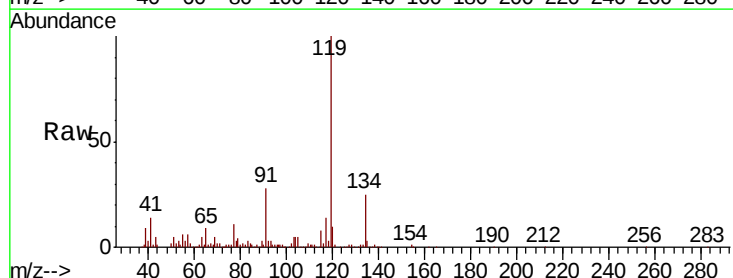
Manual Integrations  
APPROVED

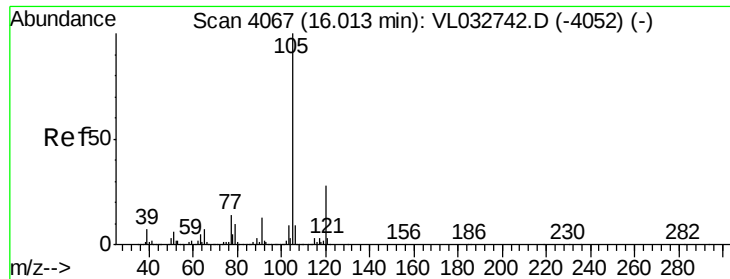
MMDadoda  
12/3/2018 4:17:10 PM



#69  
p-Isopropyltoluene  
Concen: 0.918 ppbv  
RT: 17.83 min Scan# 4631  
Delta R.T. -0.00 min  
Lab File: VL032869.D  
Acq: 1 Dec 2018 4:09

Tgt Ion: 119 Resp: 454435  
Ion Ratio Lower Upper  
119 100  
134 25.1 20.2 30.4  
91 33.2 23.5 35.3





#72

4-Ethyltoluene

Concen: 0.226 ppbv m

RT: 16.01 min Scan# 4067

Delta R.T. 0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

Instrument :

MSVOA\_L

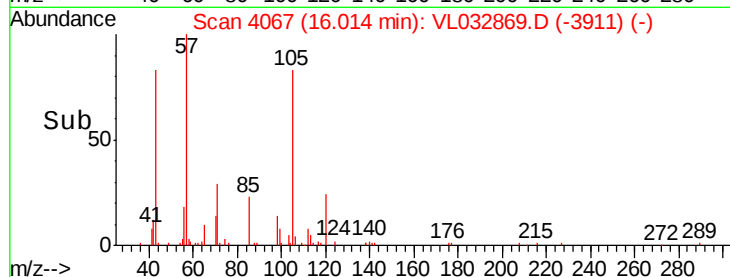
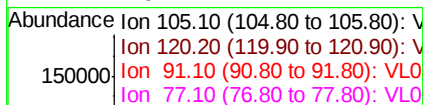
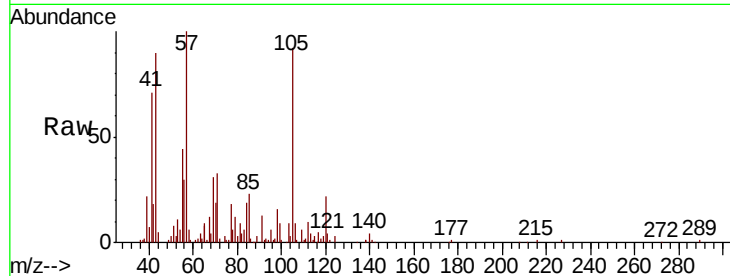
ClientSampled :

DSV-06

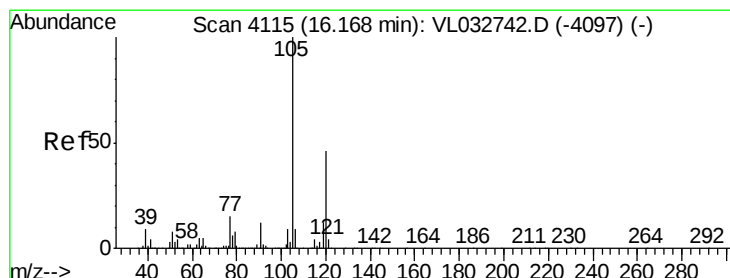
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 88110 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 26.5  | 22.9  | 34.3  |
| 91        | 0.0   | 10.6  | 15.8# |
| 77        | 19.7  | 11.4  | 17.2# |

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Time-->



#73

1,3,5-Trimethylbenzene

Concen: 0.500 ppbv

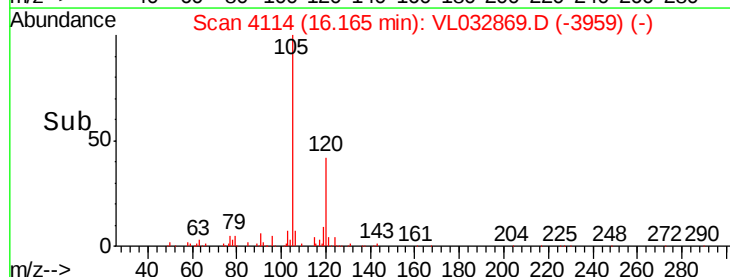
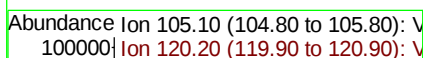
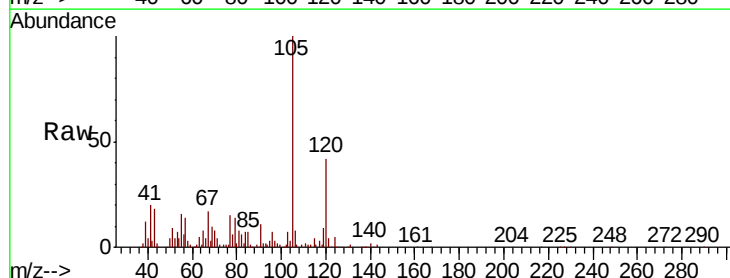
RT: 16.16 min Scan# 4114

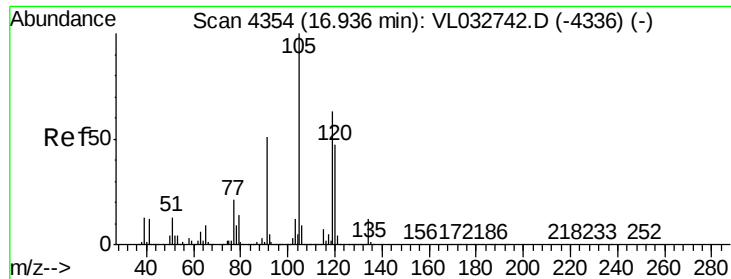
Delta R.T. -0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 105   | Resp: | 190870 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 41.5  | 36.6  | 55.0   |





#74

1,2,4-Trimethylbenzene

Concen: 0.826 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

Instrument :

MSVOA\_L

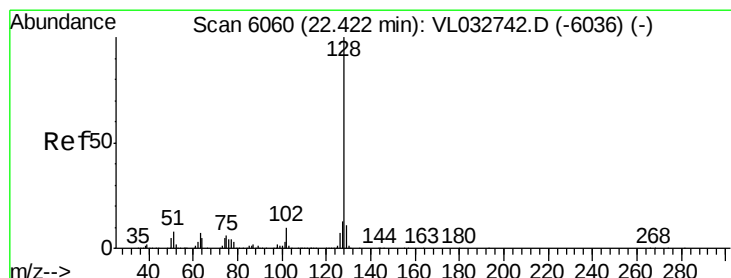
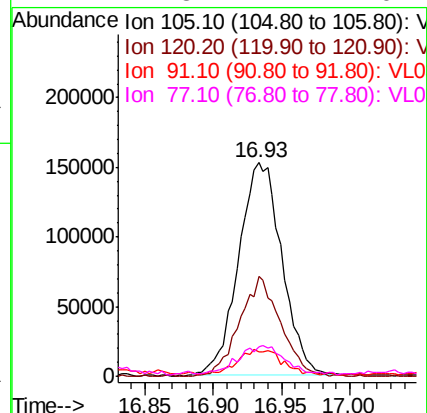
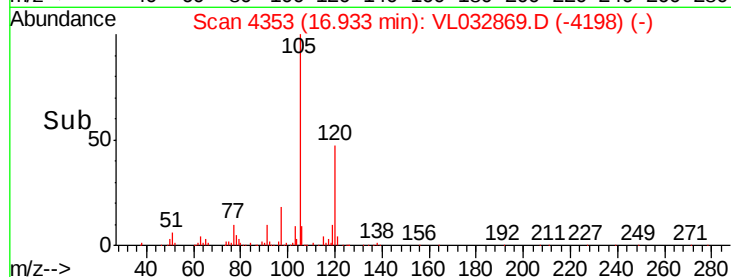
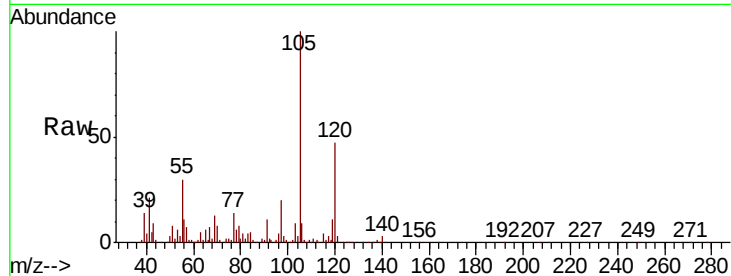
ClientSampleId :

DSV-06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 105   | Resp: | 337657 |
| Ion Ratio | Lower | Upper |        |
| 105       | 100   |       |        |
| 120       | 46.5  | 37.6  | 56.4   |
| 91        | 10.7  | 42.5  | 63.7#  |
| 77        | 12.8  | 17.4  | 26.2#  |

Manual Integrations  
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#79

Naphthalene

Concen: 0.264 ppbv m

RT: 22.43 min Scan# 6063

Delta R.T. 0.01 min

Lab File: VL032869.D

Acq: 1 Dec 2018 4:09

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 70933 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 10.7  | 10.1  | 15.1  |
| 129       | 10.7  | 8.9   | 13.3  |

