

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\  
 Data File : VL032855.D  
 Acq On : 30 Nov 2018 19:02  
 Operator : SY/AP  
 Sample : J6132-02  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-01

Manual Integrations  
 APPROVED

MMDadoda  
 12/3/2018 4:15:50 PM

Quant Time: Dec 01 02:59:22 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Nov 14 07:00:23 2018  
 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   | 1464350  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 3826790  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 3707934  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.58  | 95    | 2897988  | 10.45    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.50% |

| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane | 3.08  | 85   | 21668    | 0.103   | ppbv   | 94     |
| 3) Chlorodifluoromethane   | 3.02  | 51   | 37157    | 0.320   | ppbv   | 94     |
| 4) Chloromethane           | 3.17  | 50   | 112345   | 1.745   | ppbv   | 95     |
| 9) Propene                 | 3.04  | 41   | 7407331  | 159.438 | ppbv   | 97     |
| 10) Heptane                | 8.26  | 43   | 254838   | 1.437   | ppbv   | 98     |
| 11) Trichlorofluoromethane | 4.01  | 101  | 53572    | 0.270   | ppbv   | 90     |
| 13) Ethanol                | 3.65  | 45   | 601514   | 39.529  | ppbv   | 99     |
| 15) Acetone                | 3.90  | 43   | 2367138  | 17.701  | ppbv # | 62     |
| 20) Methylene Chloride     | 4.42  | 84   | 290502   | 4.196   | ppbv   | 94     |
| 26) Hexane                 | 5.79  | 57   | 1275785  | 9.195   | ppbv # | 43     |
| 27) Carbon Disulfide       | 4.63  | 76   | 7668341  | 43.587  | ppbv   | 99     |
| 29) Chloroform             | 5.86  | 83   | 46989    | 0.190   | ppbv   | 98     |
| 30) Cyclohexane            | 7.26  | 84   | 490885   | 4.045   | ppbv   | 88     |
| 31) cis-1,2-Dichloroethene | 5.65  | 61   | 49836    | 0.357   | ppbv   | 98     |
| 34) 2-Butanone             | 5.33  | 43   | 2735463  | 13.782  | ppbv   | 99     |
| 35) Carbon Tetrachloride   | 7.14  | 117  | 17420    | 0.057   | ppbv # | 73     |
| 36) Benzene                | 7.01  | 78   | 2049959  | 6.727   | ppbv   | 99     |
| 38) Trichloroethene        | 7.96  | 130  | 13715m   | 0.111   | ppbv   |        |
| 44) 2,2,4-Trimethylpentane | 8.00  | 57   | 827751   | 1.625   | ppbv # | 70     |
| 51) 2-Hexanone             | 10.28 | 43   | 355314   | 1.779   | ppbv # | 93     |
| 52) Tetrachloroethene      | 11.38 | 164  | 39458    | 0.372   | ppbv # | 85     |
| 53) Toluene                | 9.96  | 91   | 2941330  | 9.252   | ppbv   | 99     |
| 58) Ethyl Benzene          | 12.87 | 91   | 601824   | 1.349   | ppbv   | 99     |
| 59) m/p-Xylene             | 13.13 | 91   | 1611639  | 4.057   | ppbv   | 98     |
| 60) o-Xylene               | 13.86 | 91   | 898841   | 2.250   | ppbv   | 98     |
| 61) Styrene                | 13.69 | 104  | 120047   | 0.462   | ppbv   | 97     |
| 62) Isopropylbenzene       | 14.84 | 105  | 137463   | 0.255   | ppbv   | 98     |
| 64) n-propylbenzene        | 15.73 | 120  | 65220    | 0.459   | ppbv   | 99     |
| 67) sec-Butylbenzene       | 17.47 | 105  | 118644   | 0.170   | ppbv   | 97     |
| 69) p-Isopropyltoluene     | 17.82 | 119  | 118498   | 0.214   | ppbv   | 97     |
| 72) 4-Ethyltoluene         | 16.01 | 105  | 315577   | 0.721   | ppbv   | 98     |
| 73) 1,3,5-Trimethylbenzene | 16.16 | 105  | 399313   | 0.933   | ppbv   | 91     |
| 74) 1,2,4-Trimethylbenzene | 16.93 | 105  | 891363   | 1.946   | ppbv # | 71     |

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

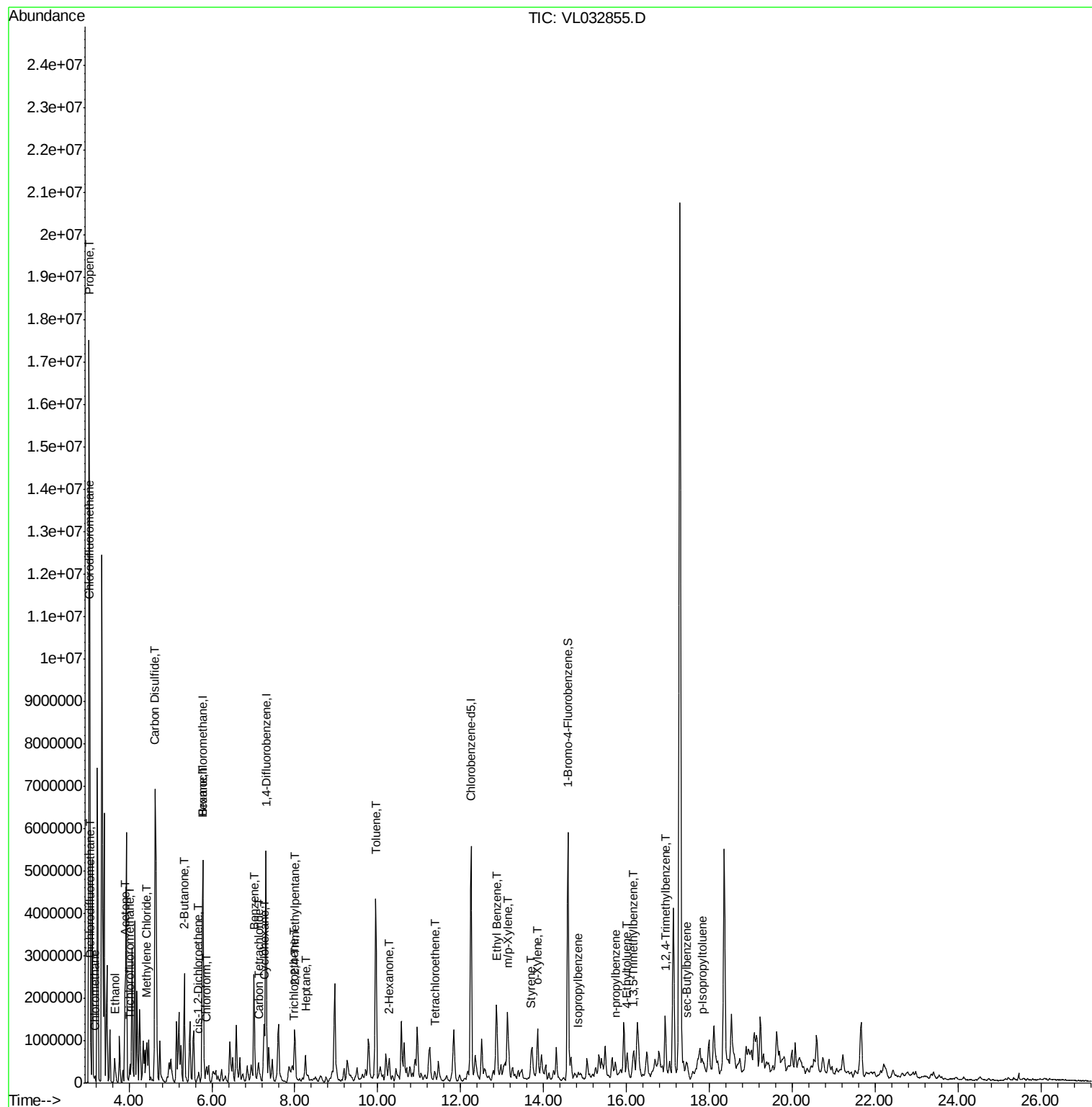
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\  
Data File : VL032855.D  
Acq On : 30 Nov 2018 19:02  
Operator : SY/AP  
Sample : J6132-02  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-01

Manual Integrations  
APPROVED

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12/3/2018 4:15:50 PM

Quant Time: Dec 01 02:59:22 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov  
QLast Update : Wed Nov 14 07:00:23 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Instrument :

MSVOA\_L

ClientSampled :

DSV-01

Tot Ion: 49 Resp: 1464350

Ion Ratio Lower Upper

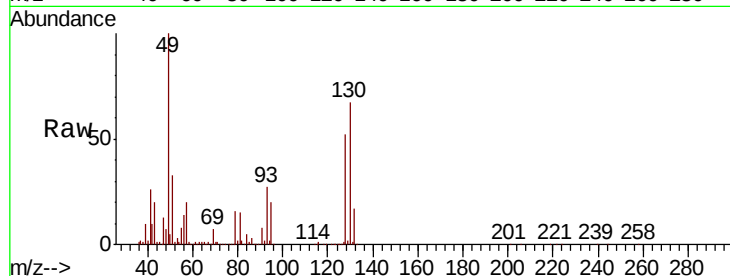
49 100

128 52.6 24.9 74.6

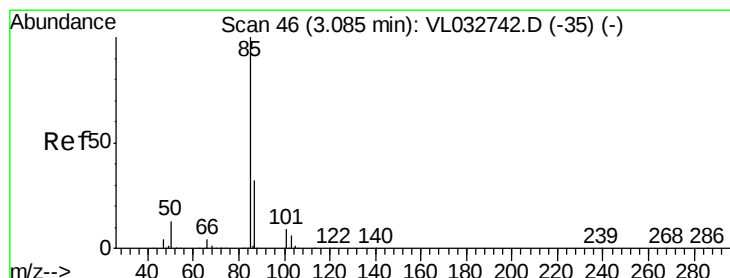
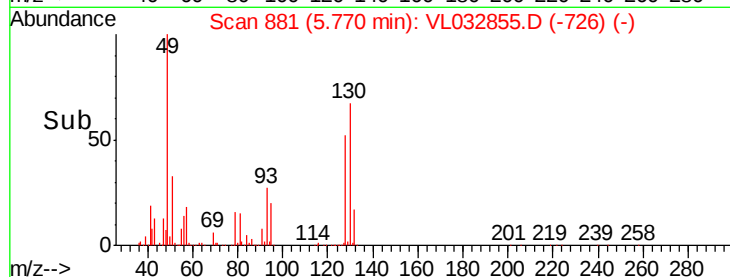
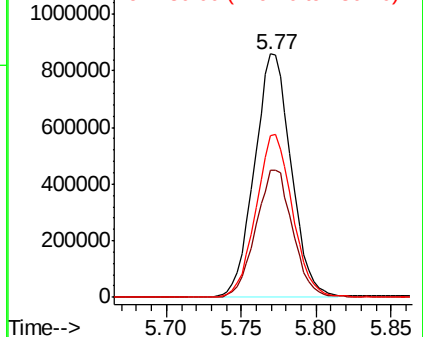
130 67.0 31.4 94.2

Manual Integrations  
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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: 0.103 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.01 min

Lab File: VL032855.D

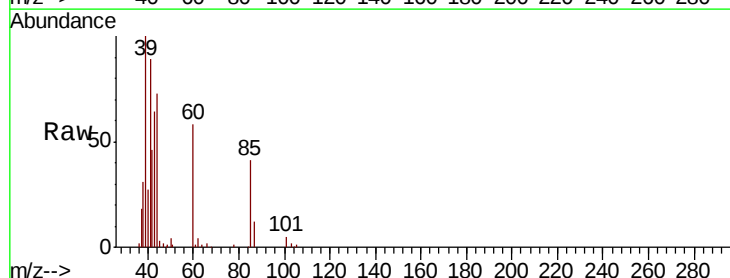
Acq: 30 Nov 2018 19:02

Tgt Ion: 85 Resp: 21668

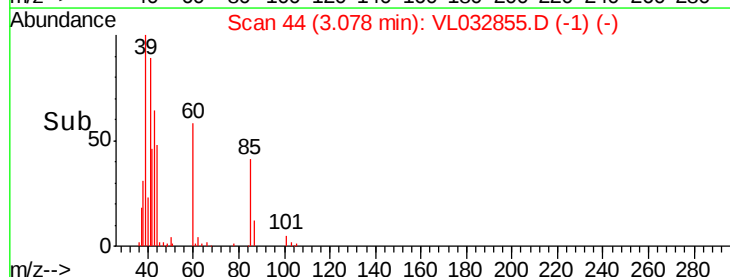
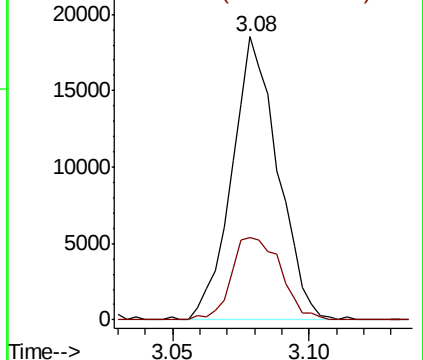
Ion Ratio Lower Upper

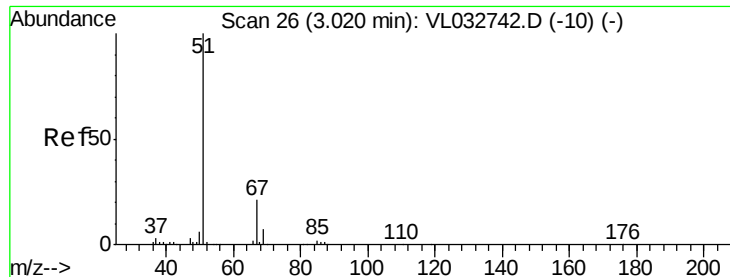
85 100

87 29.0 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: 0.320 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Instrument :

MSVOA\_L

ClientSampled :

DSV-01

Tot Ion: 51 Resp: 37157

Ion Ratio Lower Upper

51 100

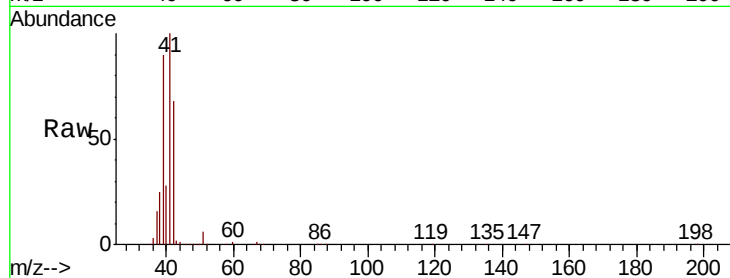
67 17.2 16.1 24.1

Manual Integrations

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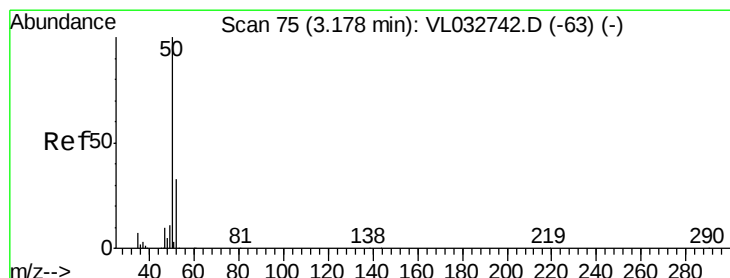
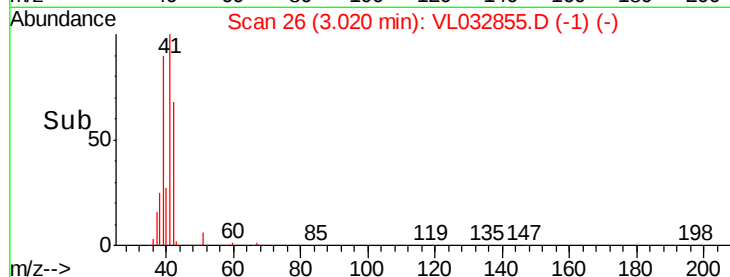
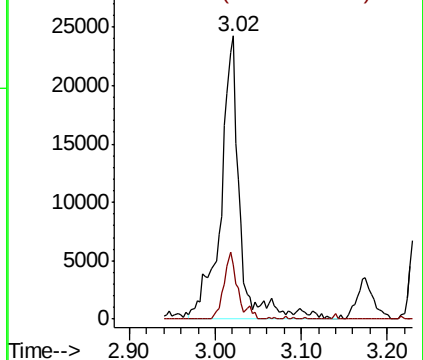
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.745 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032855.D

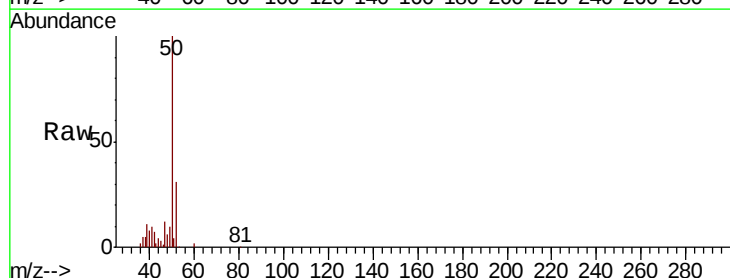
Acq: 30 Nov 2018 19:02

Tgt Ion: 50 Resp: 112345

Ion Ratio Lower Upper

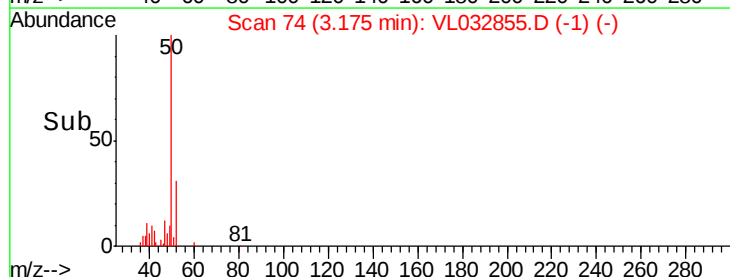
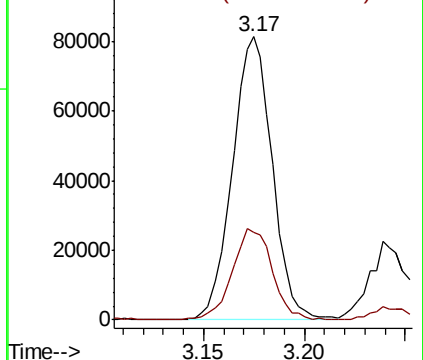
50 100

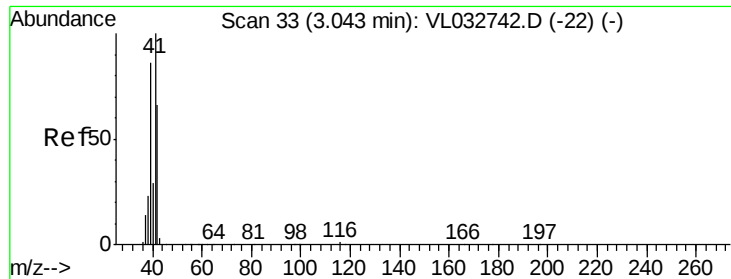
52 30.5 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 159.438 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Instrument :

MSVOA\_L

ClientSampled :

DSV-01

Tot Ion: 41 Resp: 7407331

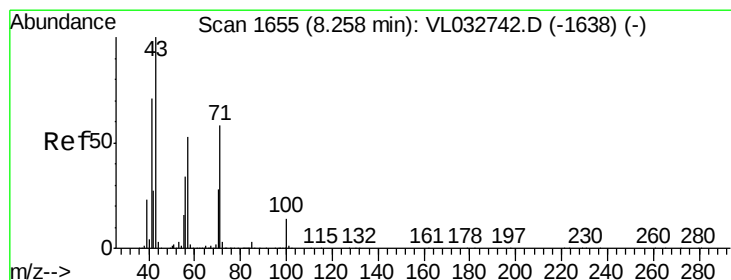
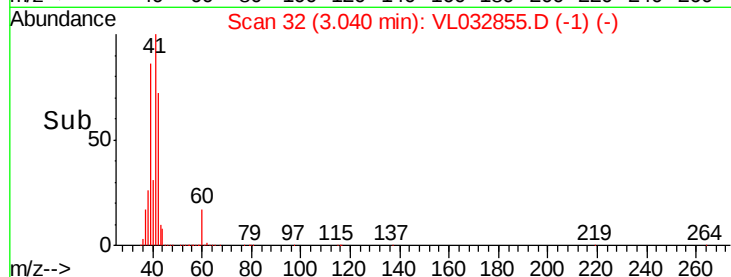
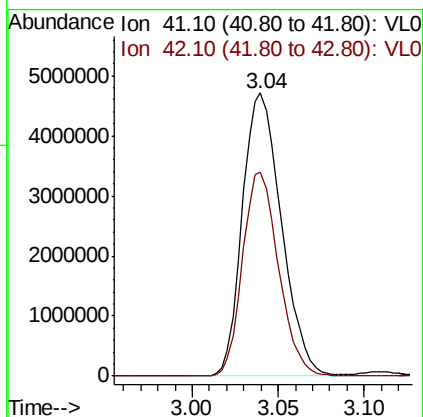
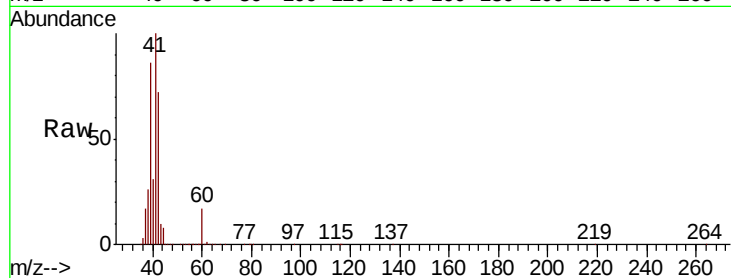
Ion Ratio Lower Upper

41 100

42 66.6 55.0 82.6

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#10

Heptane

Concen: 1.437 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VL032855.D

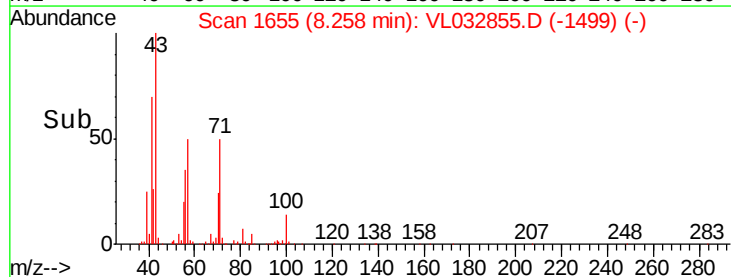
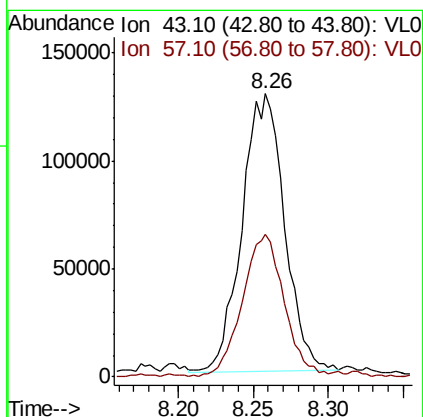
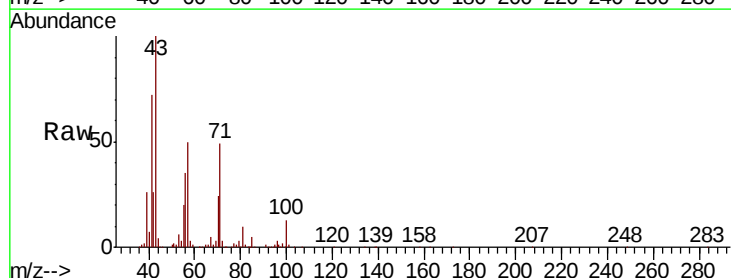
Acq: 30 Nov 2018 19:02

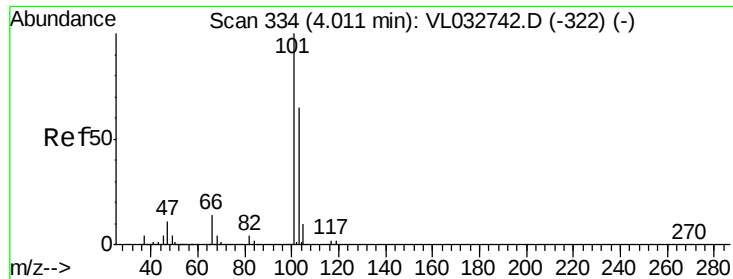
Tgt Ion: 43 Resp: 254838

Ion Ratio Lower Upper

43 100

57 51.2 41.8 62.8





#11

Trichlorofluoromethane

Concen: 0.270 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.00 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Instrument :

MSVOA\_L

ClientSampleId :

DSV-01

Tot Ion:101 Resp: 53572

Ion Ratio Lower Upper

101 100

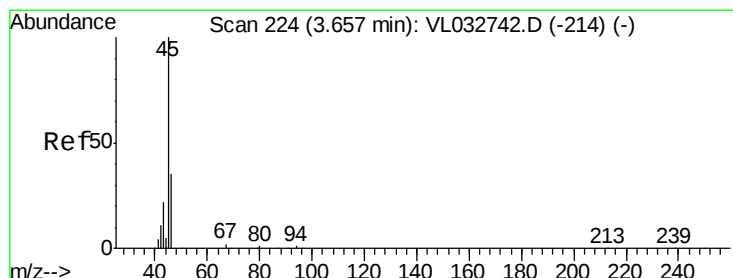
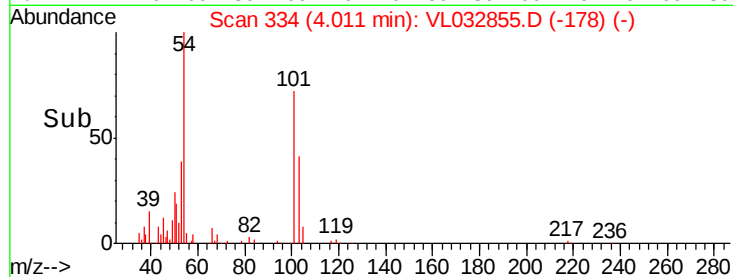
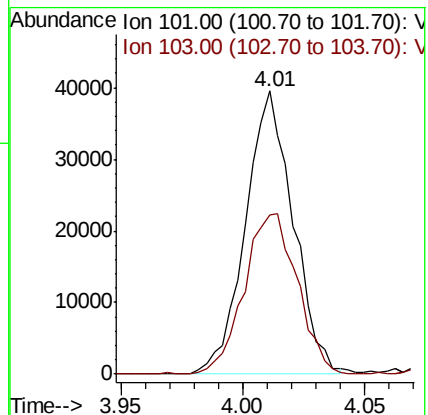
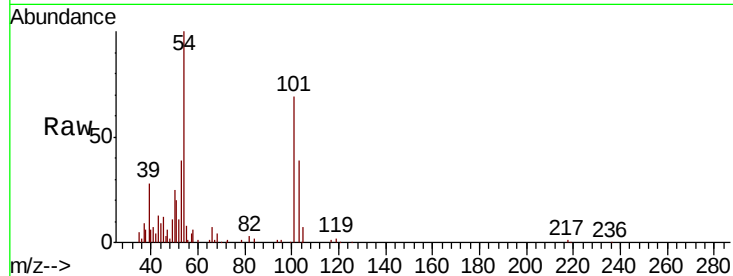
103 56.4 51.6 77.4

Manual Integrations

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#13

Ethanol

Concen: 39.529 ppbv

RT: 3.65 min Scan# 223

Delta R.T. -0.00 min

Lab File: VL032855.D

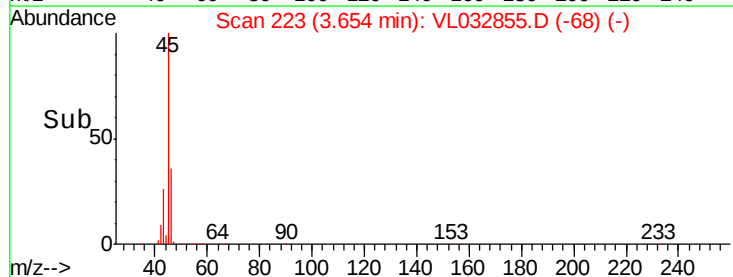
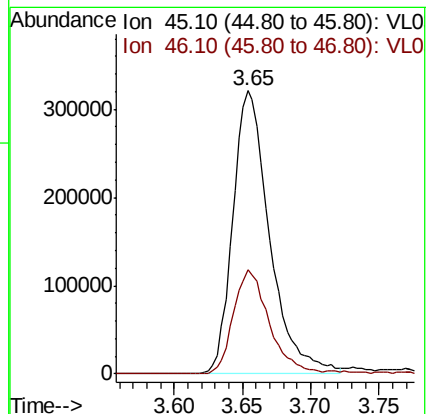
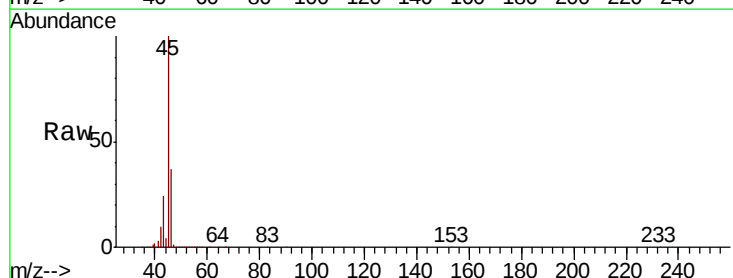
Acq: 30 Nov 2018 19:02

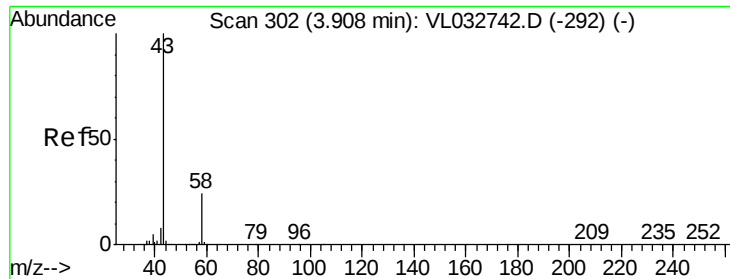
Tgt Ion: 45 Resp: 601514

Ion Ratio Lower Upper

45 100

46 36.6 14.5 57.9





#15

Acetone

Concen: 17.701 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.01 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Instrument :

MSVOA\_L

ClientSampleId :

DSV-01

Tot Ion: 43 Resp: 2367138

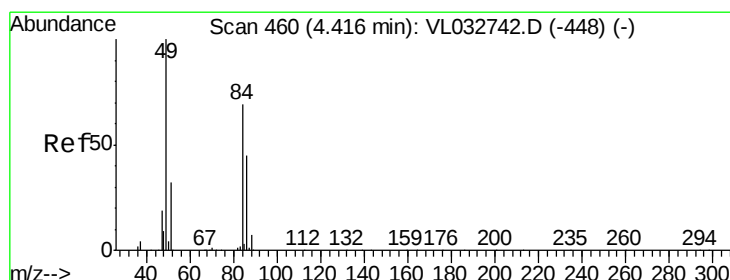
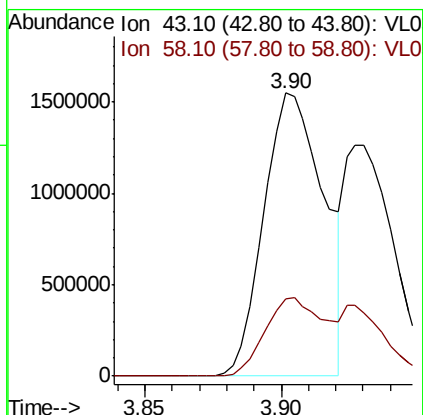
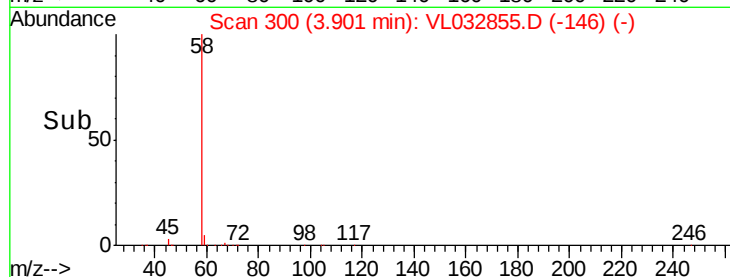
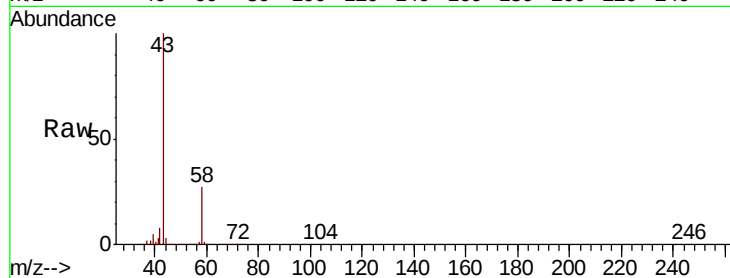
Ion Ratio Lower Upper

43 100

58 45.7 21.1 31.7#

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#20

Methylene Chloride

Concen: 4.196 ppbv

RT: 4.42 min Scan# 461

Delta R.T. 0.00 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Tgt Ion: 84 Resp: 290502

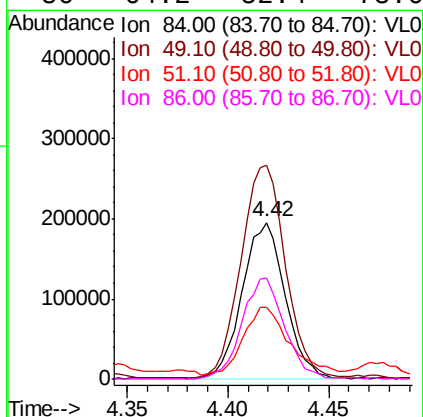
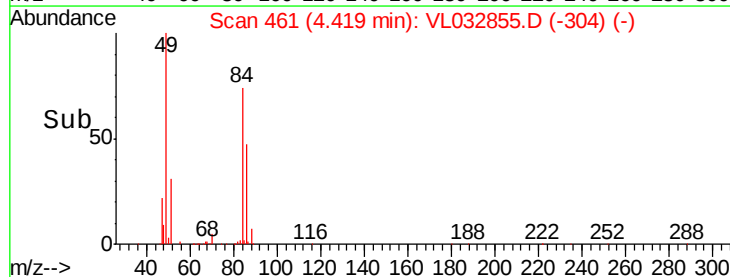
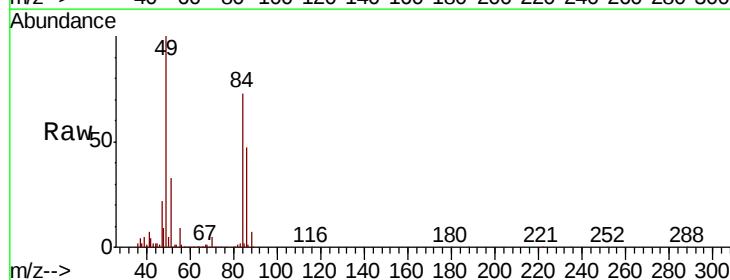
Ion Ratio Lower Upper

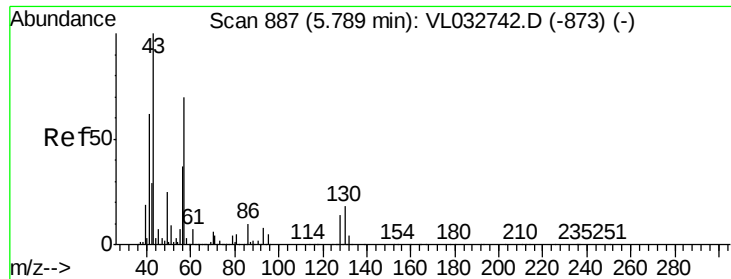
84 100

49 136.2 115.8 173.6

51 40.7 36.9 55.3

86 64.2 52.4 78.6





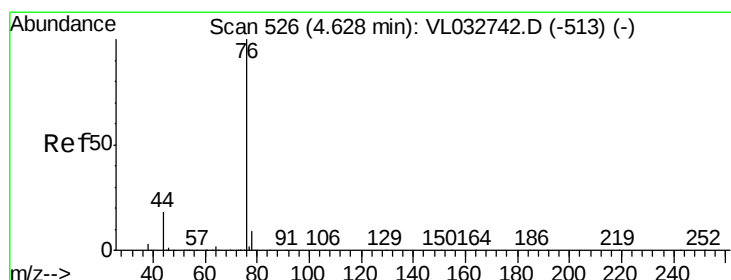
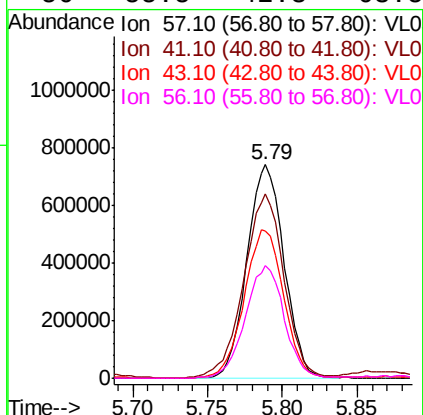
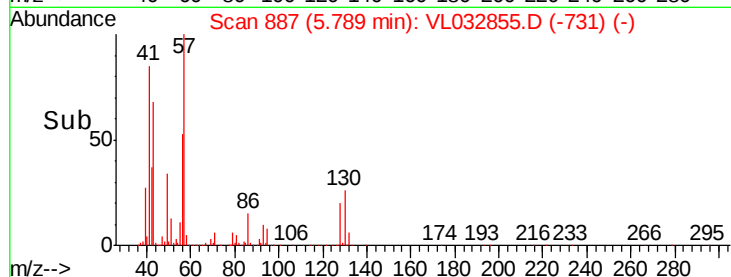
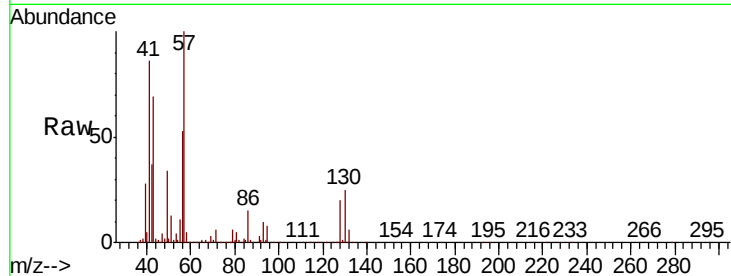
#26  
Hexane  
Concen: 9.195 ppbv  
RT: 5.79 min Scan# 887  
Delta R.T. 0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Instrument :  
MSVOA\_L  
ClientSampled :  
DSV-01

| Tot Ion | 57    | Resp  | 1275785 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 57      | 100   |       |         |
| 41      | 94.0  | 70.3  | 105.5   |
| 43      | 73.6  | 174.0 | 261.0#  |
| 56      | 55.5  | 42.3  | 63.5    |

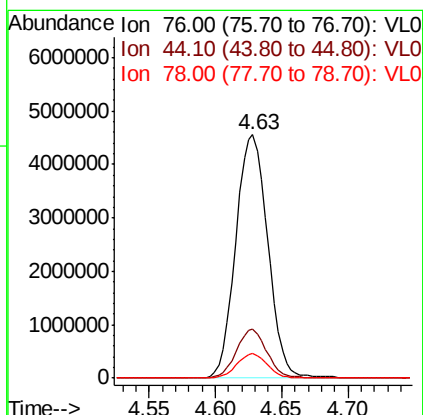
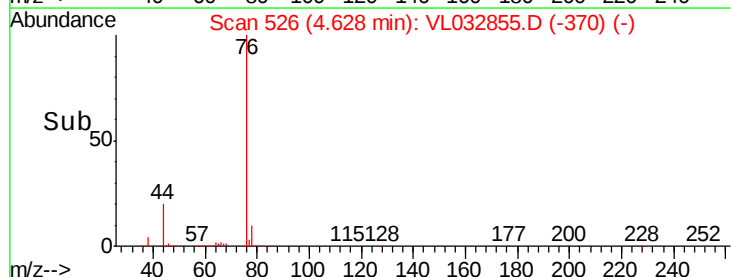
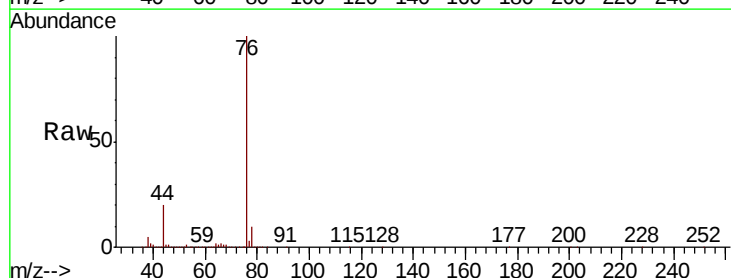
Manual Integrations  
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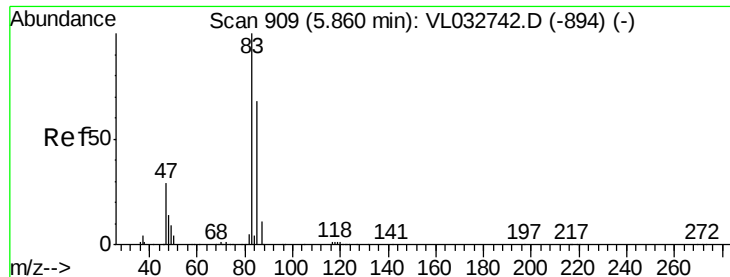
MMDadoda  
12/3/2018 4:15:50 PM



#27  
Carbon Disulfide  
Concen: 43.587 ppbv  
RT: 4.63 min Scan# 526  
Delta R.T. 0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

| Tgt Ion | 76    | Resp  | 7668341 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 76      | 100   |       |         |
| 44      | 19.0  | 14.4  | 21.6    |
| 78      | 9.6   | 7.7   | 11.5    |





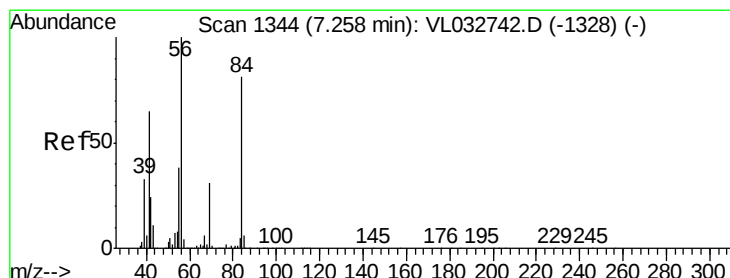
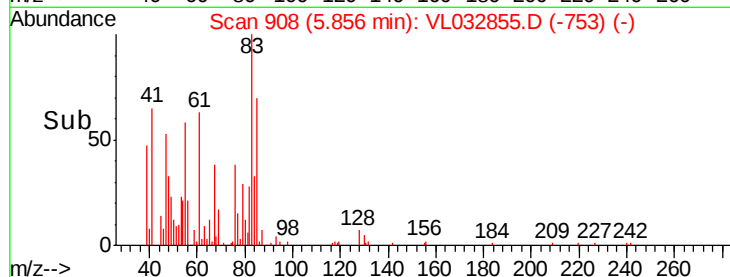
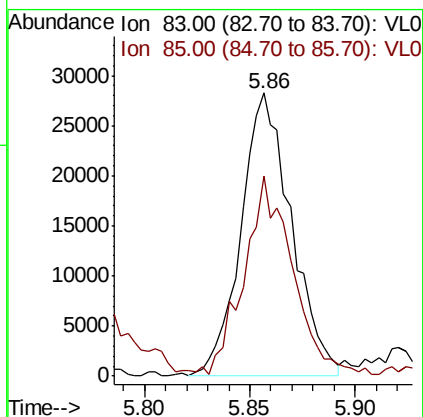
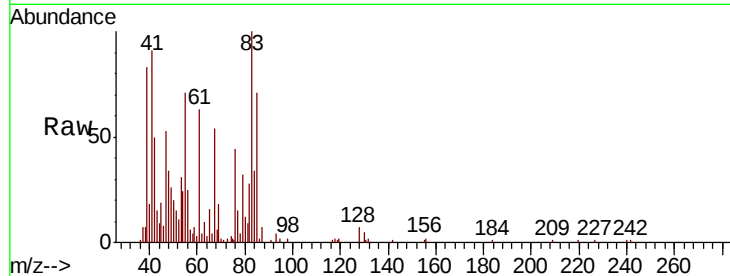
#29  
Chloroform  
Concen: 0.190 ppbv  
RT: 5.86 min Scan# 908  
Delta R.T. -0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-01

Tot Ion: 83 Resp: 46989  
Ion Ratio Lower Upper  
83 100  
85 69.0 54.2 81.4

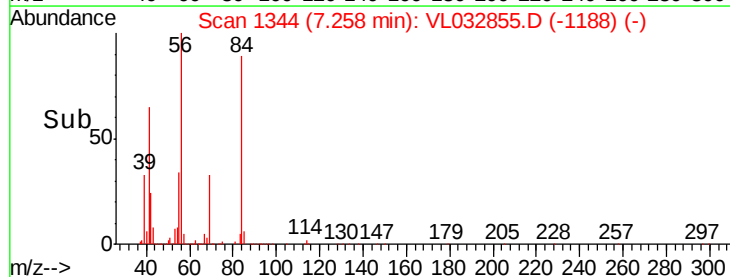
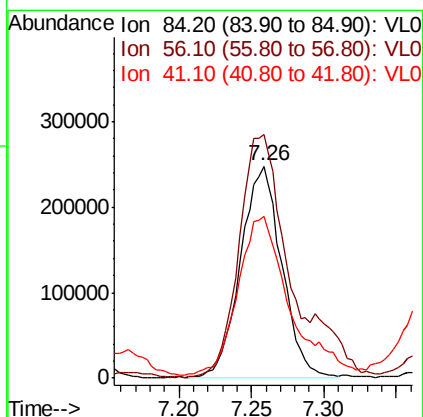
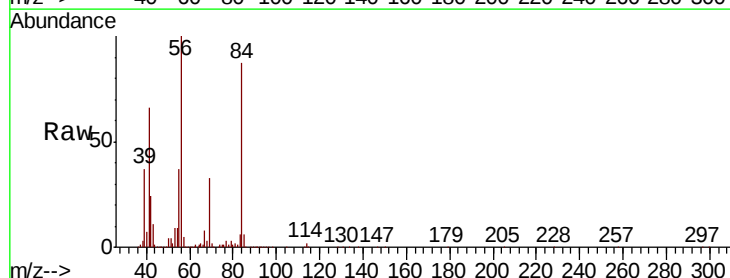
Manual Integrations  
APPROVED

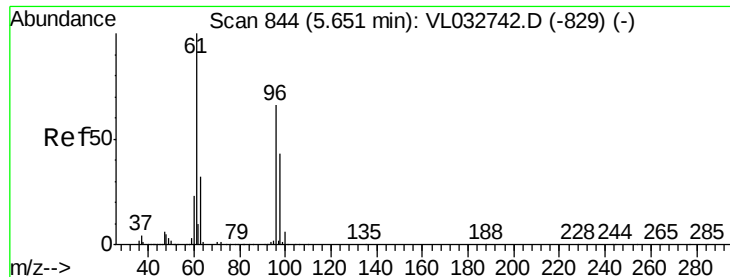
MMDadoda  
12/3/2018 4:15:50 PM



#30  
Cyclohexane  
Concen: 4.045 ppbv  
RT: 7.26 min Scan# 1344  
Delta R.T. 0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Tgt Ion: 84 Resp: 490885  
Ion Ratio Lower Upper  
84 100  
56 145.1 105.0 157.4  
41 91.5 65.3 97.9





#31

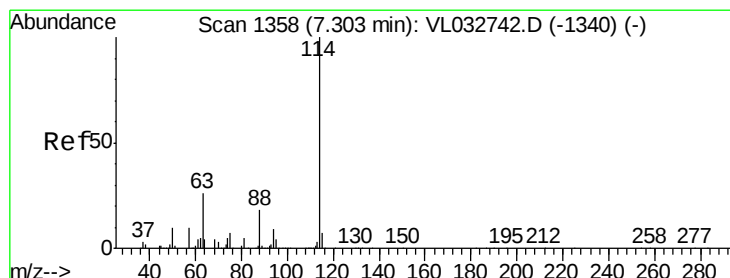
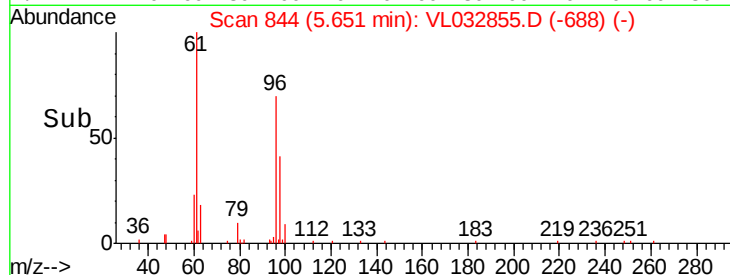
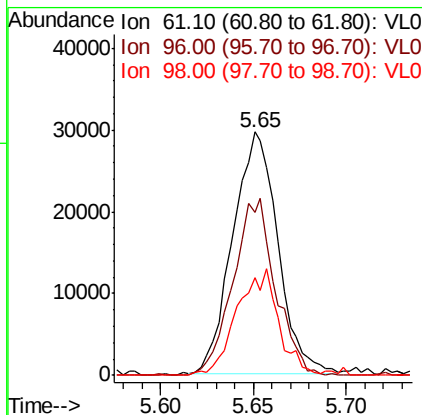
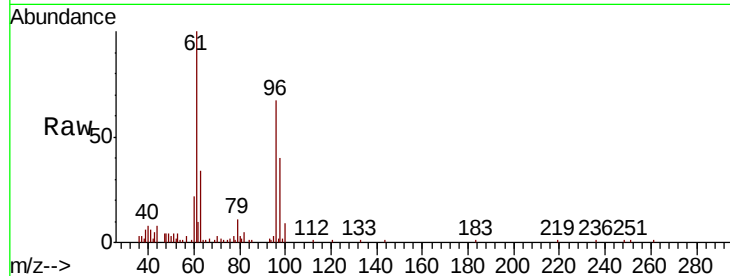
cis-1,2-Dichloroethene  
Concen: 0.357 ppbv  
RT: 5.65 min Scan# 844  
Delta R.T. 0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 67.5  | 53.2  | 79.8  |
| 98      | 40.5  | 34.4  | 51.6  |

Manual Integrations  
APPROVED

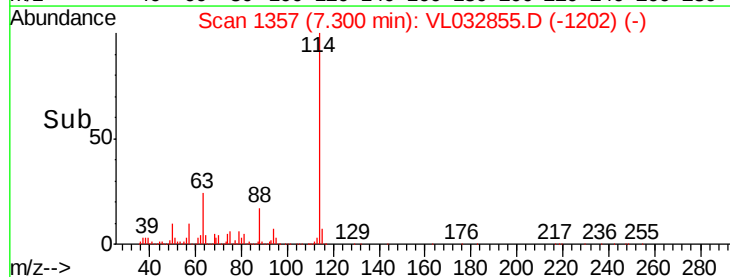
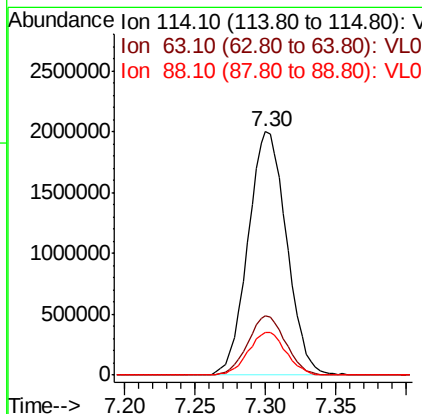
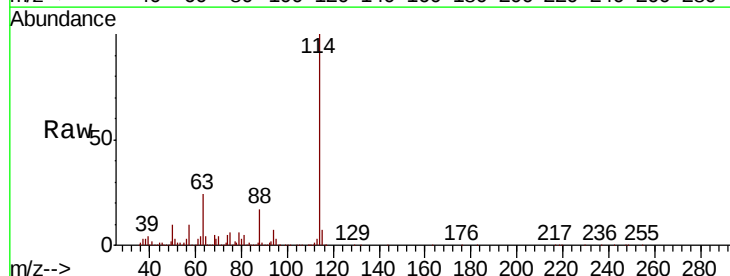
MMDadoda  
12/3/2018 4:15:50 PM

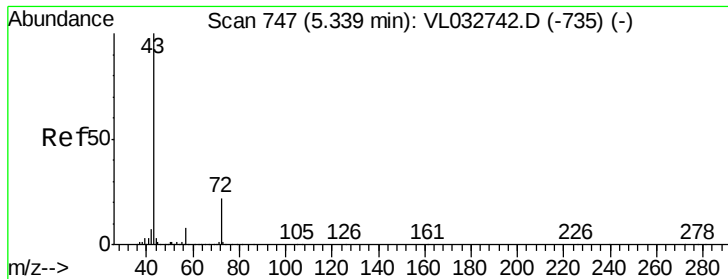


#33

1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.30 min Scan# 1357  
Delta R.T. -0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.1  | 20.9  | 31.3  |
| 88      | 17.3  | 14.4  | 21.6  |





#34

2-Butanone

Concen: 13.782 ppbv

RT: 5.33 min Scan# 745

Delta R.T. -0.01 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Instrument :

MSVOA\_L

ClientSampleId :

DSV-01

Tot Ion: 43 Resp: 2735463

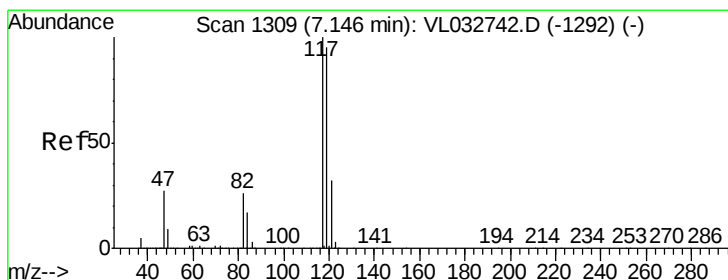
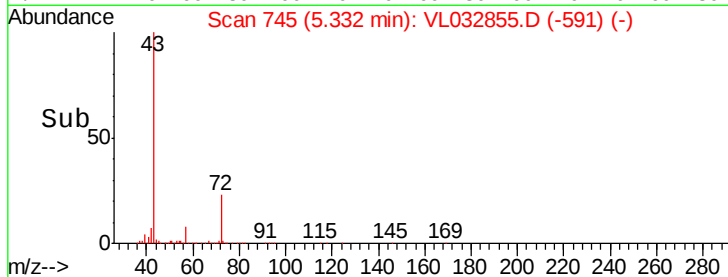
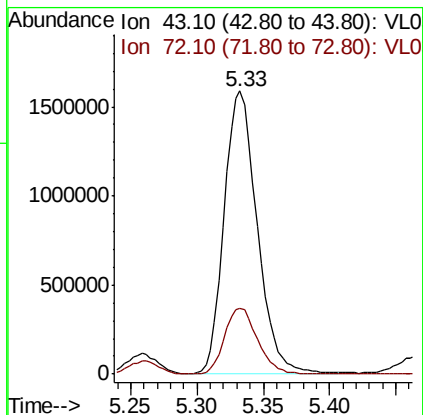
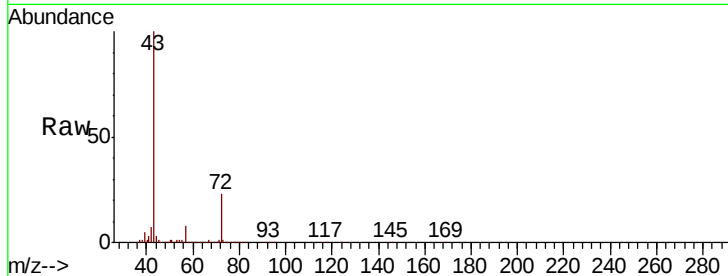
Ion Ratio Lower Upper

43 100

72 23.4 18.4 27.6

Manual Integrations  
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12/3/2018 4:15:50 PM



#35

Carbon Tetrachloride

Concen: 0.057 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. -0.01 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

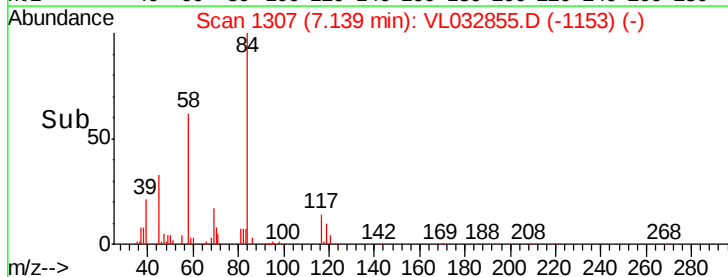
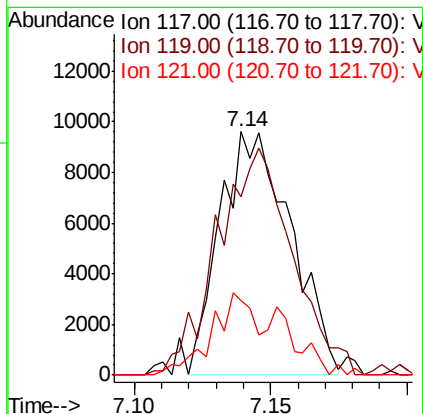
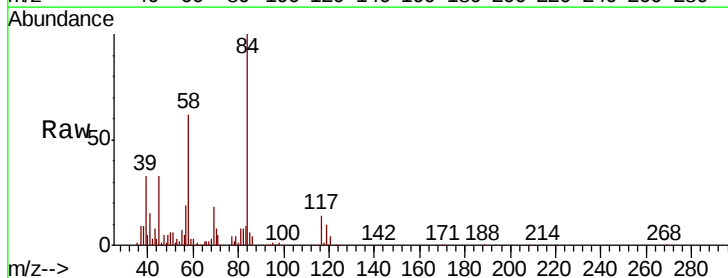
Tgt Ion: 117 Resp: 17420

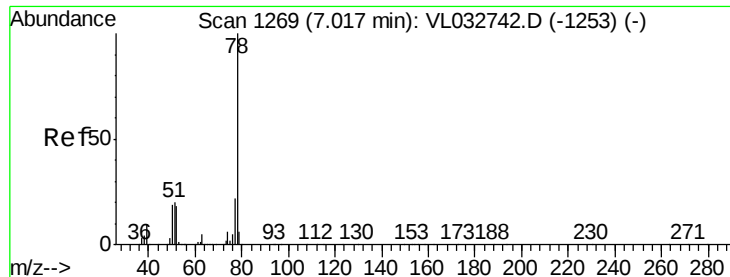
Ion Ratio Lower Upper

117 100

119 63.4 76.1 114.1#

121 26.8 25.4 38.0





#36

Benzene

Concen: 6.727 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Instrument :

MSVOA\_L

ClientSampled :

DSV-01

Tot Ion: 78 Resp: 2049959

Ion Ratio Lower Upper

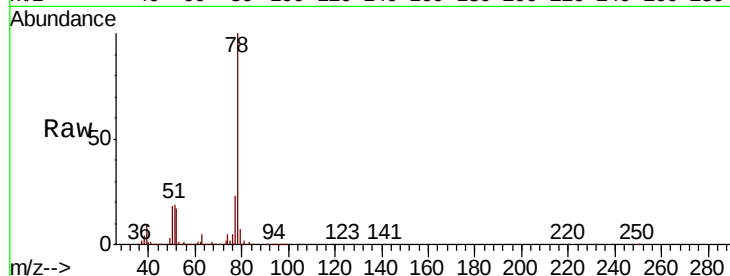
78 100

77 22.5 17.8 26.8

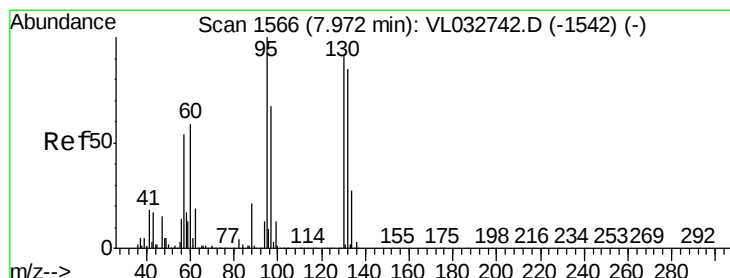
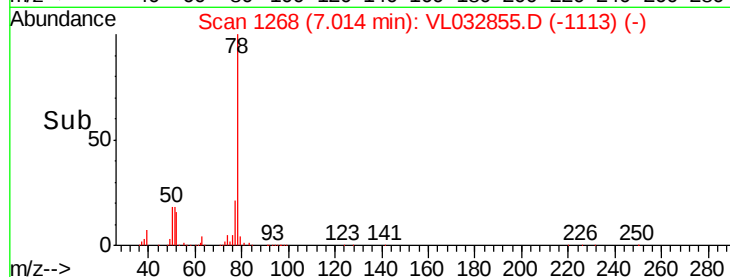
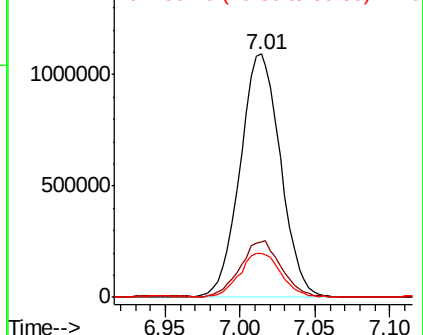
50 18.0 15.4 23.0

Manual Integrations  
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12/3/2018 4:15:50 PM



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: 0.111 ppbv m

RT: 7.96 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Tgt Ion: 130 Resp: 13715

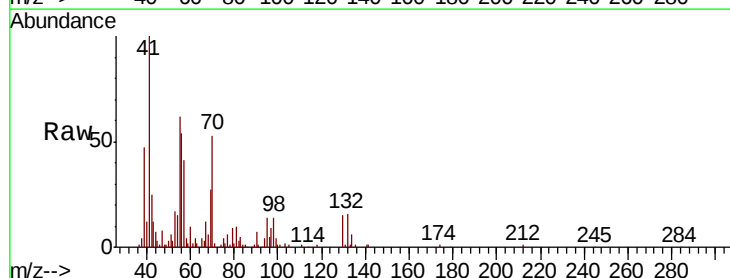
Ion Ratio Lower Upper

130 100

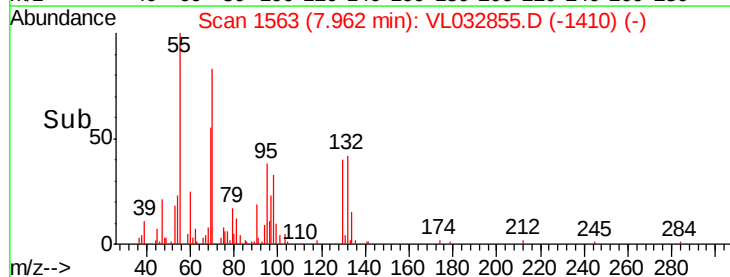
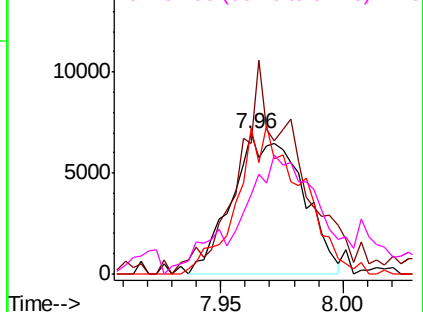
95 92.8 87.7 131.5

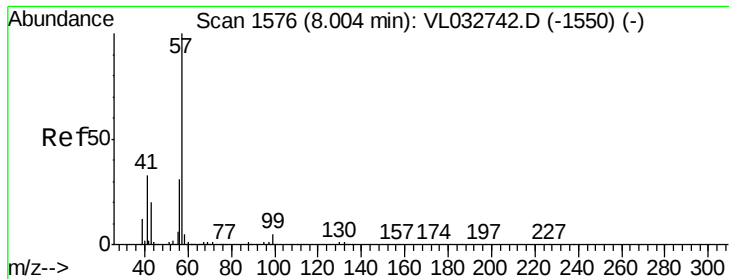
132 103.9 74.6 111.8

97 56.6 58.3 87.5#



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





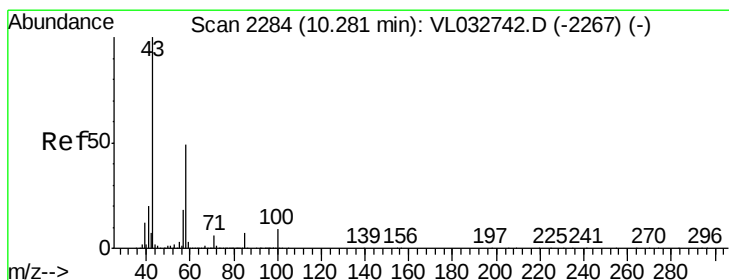
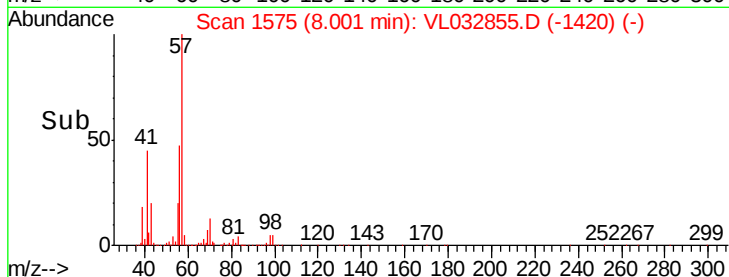
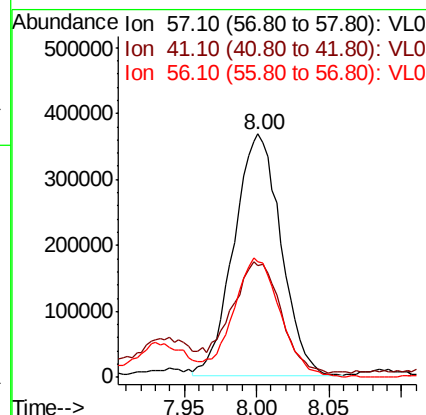
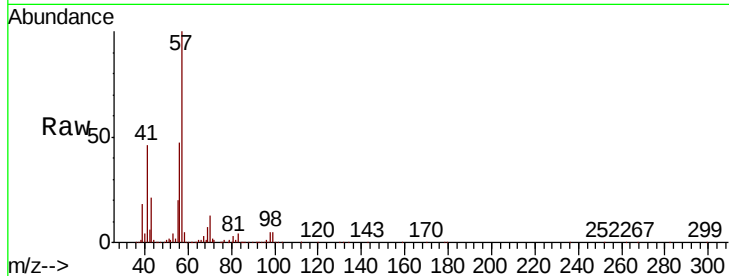
#44  
 2,2,4-Trimethylpentane  
 Concen: 1.625 ppbv  
 RT: 8.00 min Scan# 1575  
 Delta R.T. -0.00 min  
 Lab File: VL032855.D  
 Acq: 30 Nov 2018 19:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 57      | 100   |       |       |
| 41      | 47.9  | 26.6  | 39.8# |
| 56      | 49.4  | 24.8  | 37.2# |

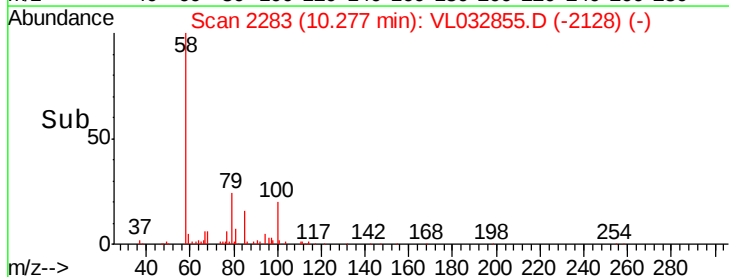
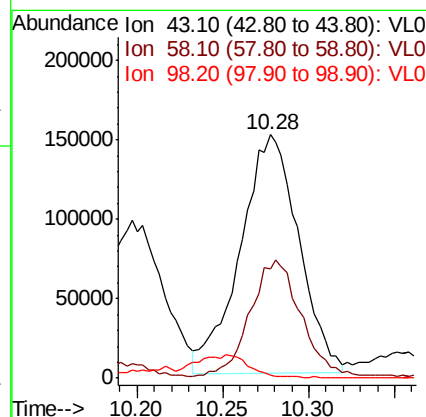
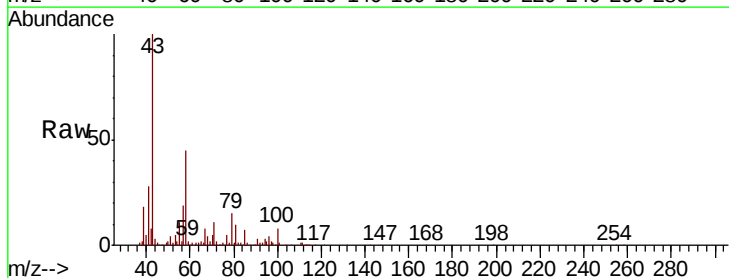
Manual Integrations  
 APPROVED

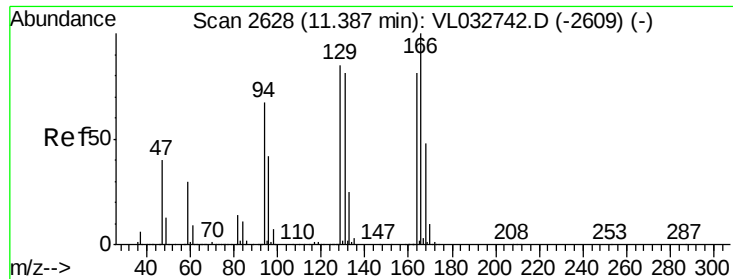
MMDadoda  
 12/3/2018 4:15:50 PM



#51  
 2-Hexanone  
 Concen: 1.779 ppbv  
 RT: 10.28 min Scan# 2283  
 Delta R.T. -0.00 min  
 Lab File: VL032855.D  
 Acq: 30 Nov 2018 19:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 44.0  | 38.9  | 58.3  |
| 98      | 13.2  | 0.2   | 0.4#  |





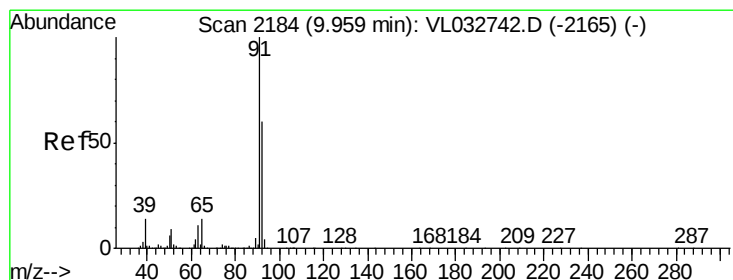
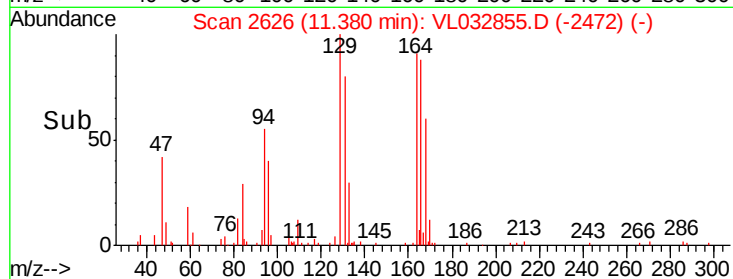
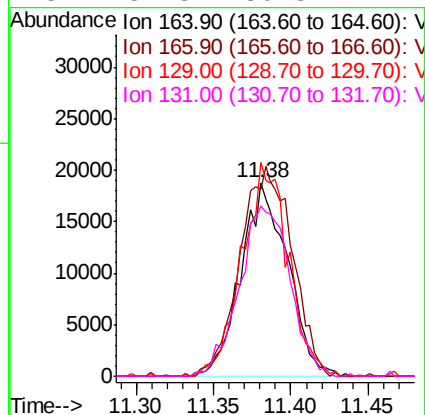
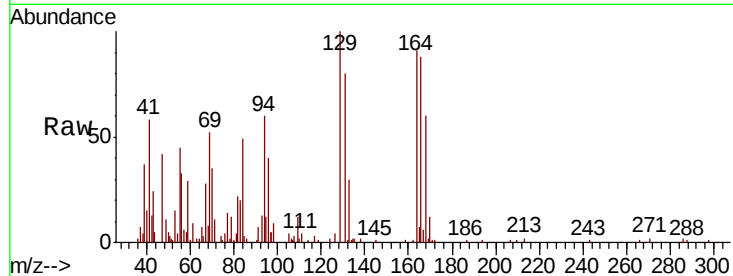
#52  
Tetrachloroethene  
Concen: 0.372 ppbv  
RT: 11.38 min Scan# 2626  
Delta R.T. -0.01 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-01

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 164     | 100   |       |        |
| 166     | 96.8  | 99.3  | 148.9# |
| 129     | 110.3 | 83.9  | 125.9  |
| 131     | 87.8  | 80.8  | 121.2  |

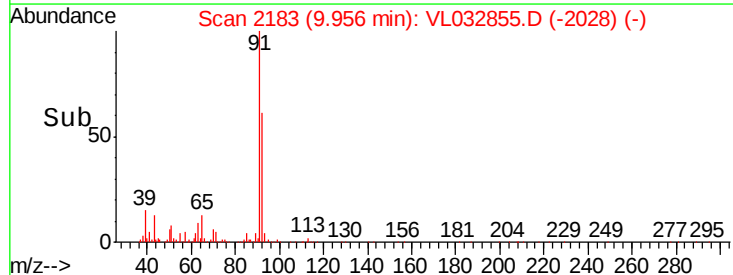
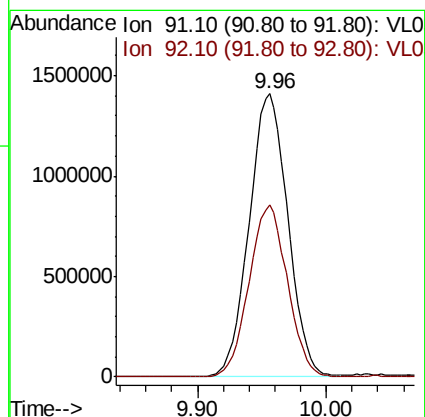
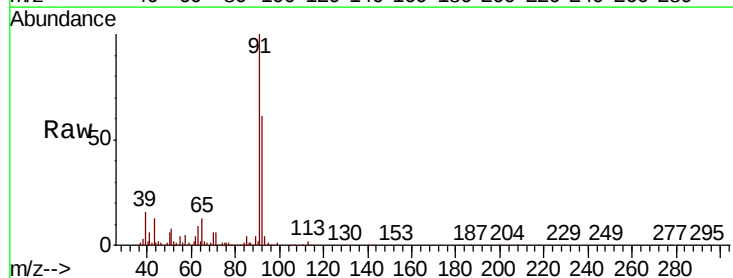
Manual Integrations  
APPROVED

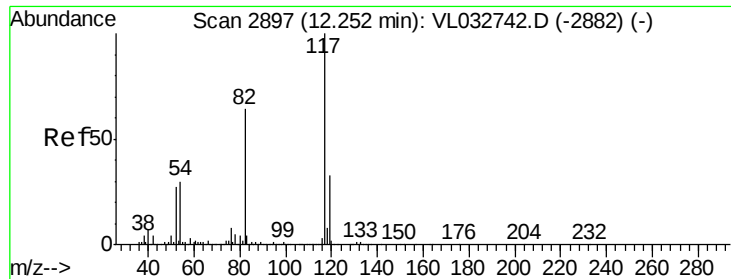
MMDadoda  
12/3/2018 4:15:50 PM



#53  
Toluene  
Concen: 9.252 ppbv  
RT: 9.96 min Scan# 2183  
Delta R.T. -0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 60.3  | 47.9  | 71.9  |





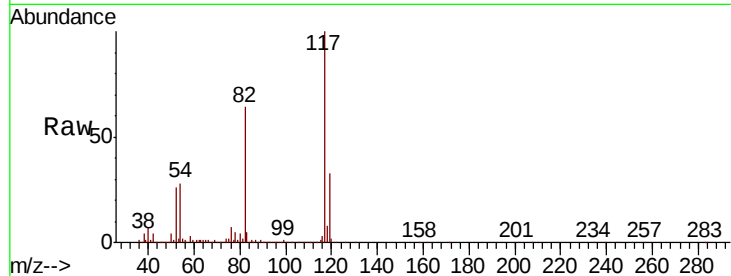
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.25 min Scan# 2896  
Delta R.T. -0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-01

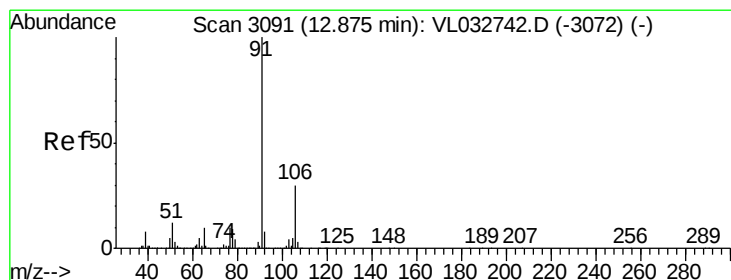
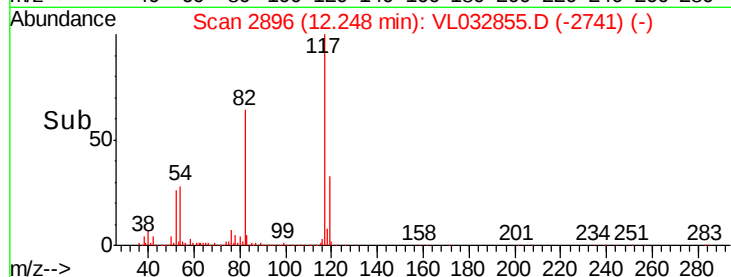
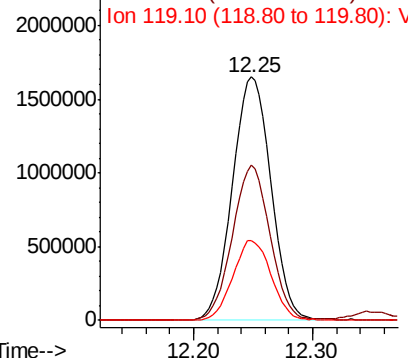
Tot Ion:117 Resp: 3707934  
Ion Ratio Lower Upper  
117 100  
82 62.2 51.0 76.6  
119 32.7 28.0 42.0

Manual Integrations  
APPROVED

MMDadoda  
12/3/2018 4:15:50 PM

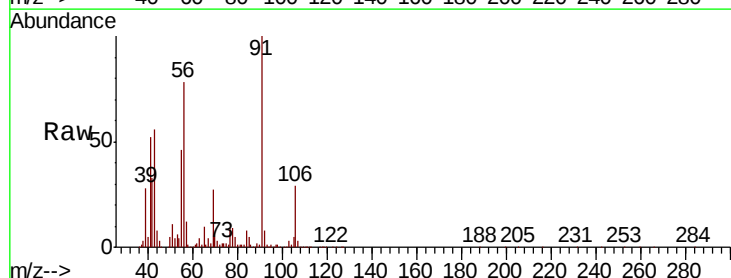


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V

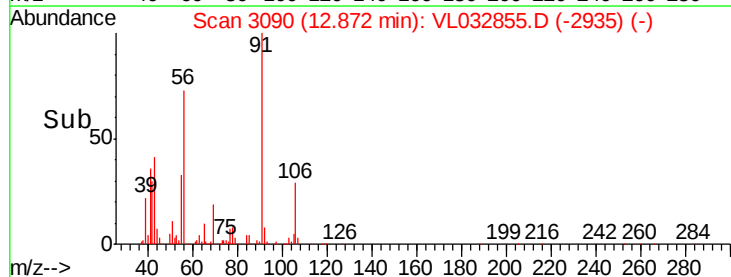
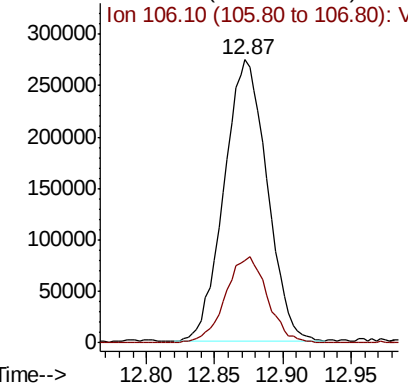


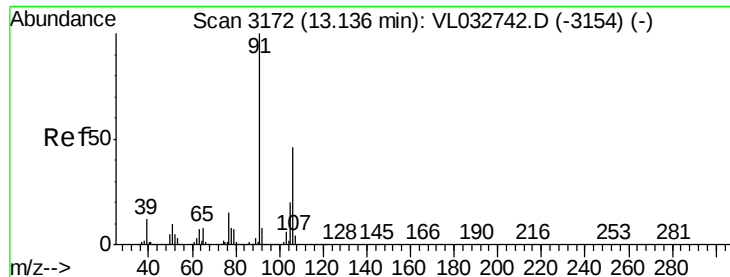
#58  
Ethyl Benzene  
Concen: 1.349 ppbv  
RT: 12.87 min Scan# 3090  
Delta R.T. -0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Tgt Ion: 91 Resp: 601824  
Ion Ratio Lower Upper  
91 100  
106 29.0 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 106.10 (105.80 to 106.80): V





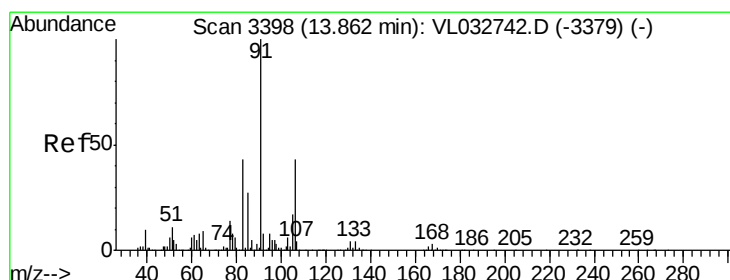
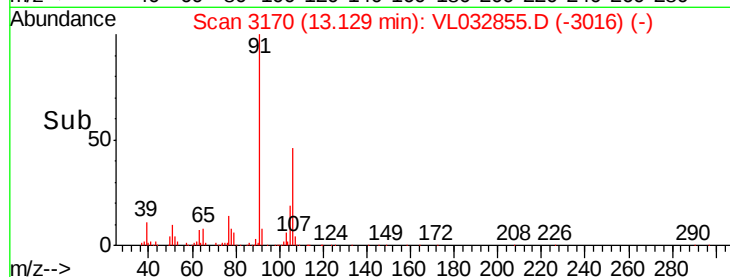
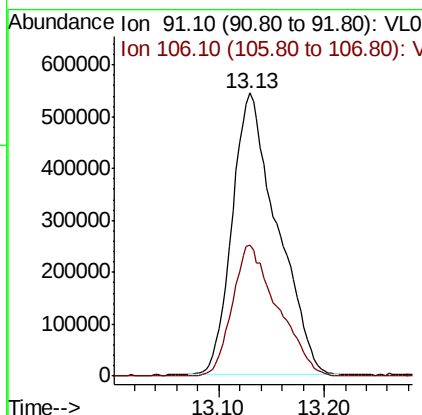
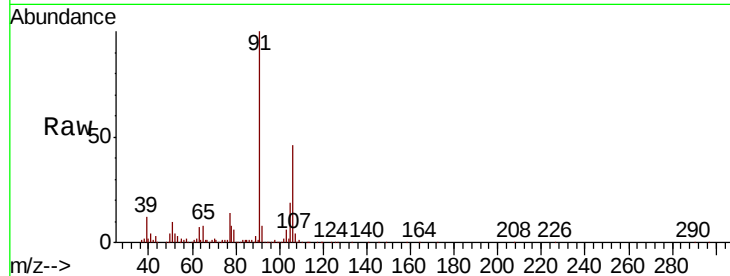
#59  
m/p-Xylene  
Concen: 4.057 ppbv  
RT: 13.13 min Scan# 3170  
Delta R.T. -0.01 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Instrument :  
MSVOA\_L  
ClientSampled :  
DSV-01

Tot Ion: 91 Resp: 1611639  
Ion Ratio Lower Upper  
91 100  
106 46.6 36.1 54.1

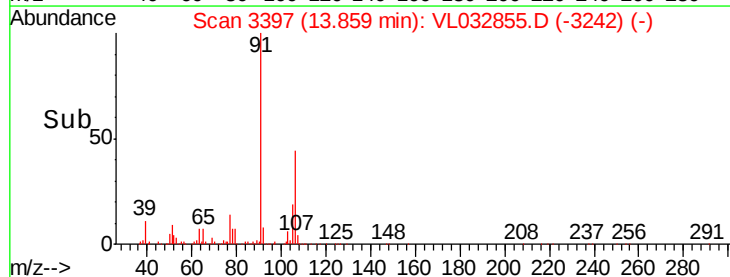
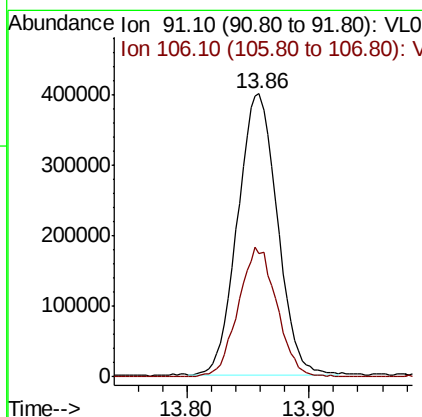
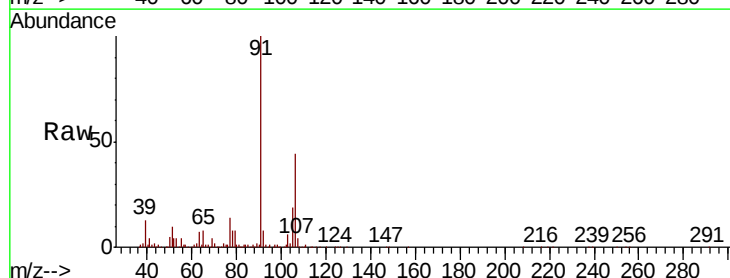
Manual Integrations  
APPROVED

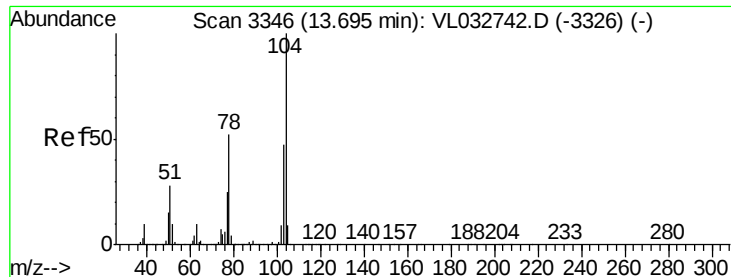
MMDadoda  
12/3/2018 4:15:50 PM



#60  
o-Xylene  
Concen: 2.250 ppbv  
RT: 13.86 min Scan# 3397  
Delta R.T. -0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Tgt Ion: 91 Resp: 898841  
Ion Ratio Lower Upper  
91 100  
106 44.9 21.9 65.7





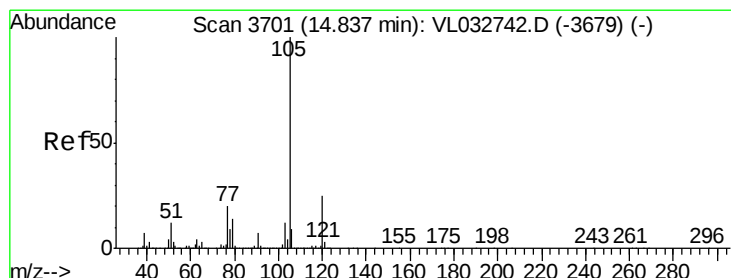
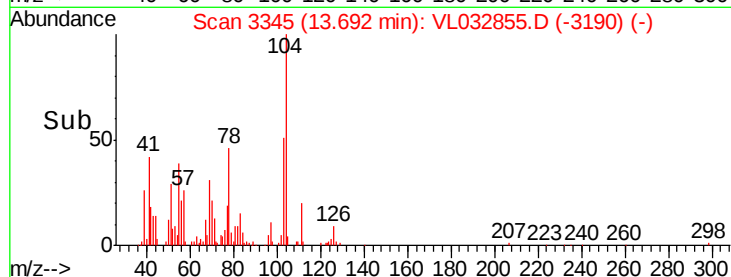
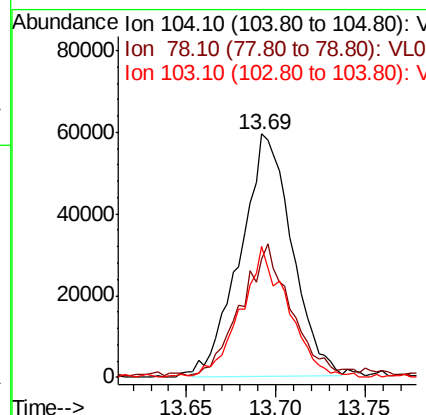
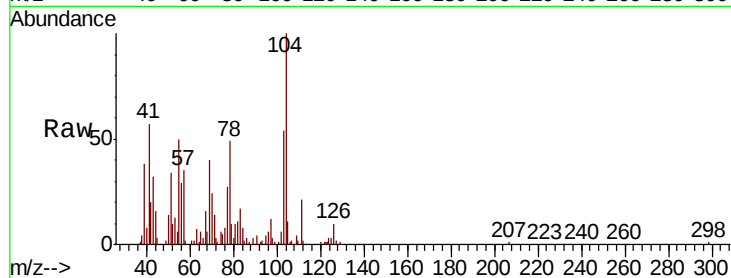
#61  
Stvrene  
Concen: 0.462 ppbv  
RT: 13.69 min Scan# 3345  
Delta R.T. -0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Instrument :  
MSVOA\_L  
ClientSampled :  
DSV-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 54.5  | 42.2  | 63.4  |
| 103     | 50.1  | 38.2  | 57.2  |

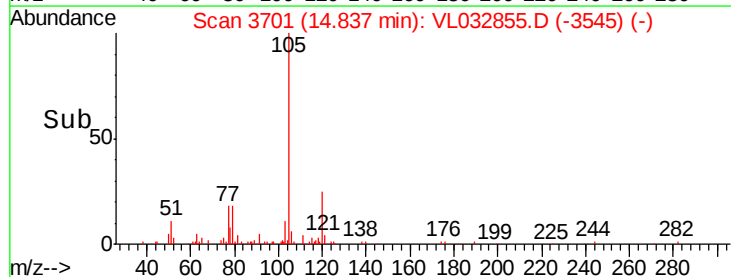
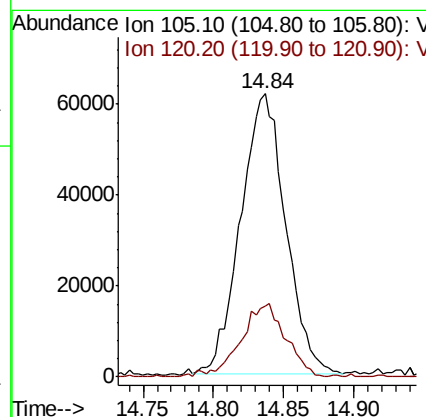
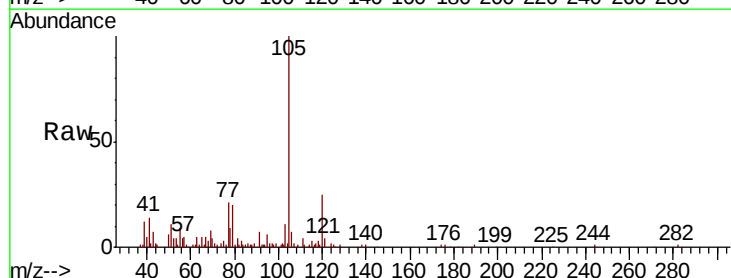
Manual Integrations  
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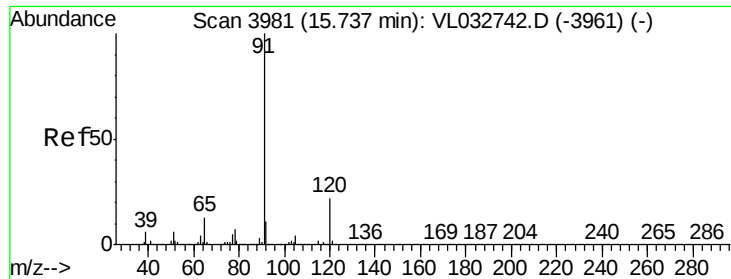
MMDadoda  
12/3/2018 4:15:50 PM



#62  
Isopropylbenzene  
Concen: 0.255 ppbv  
RT: 14.84 min Scan# 3701  
Delta R.T. 0.00 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.3  | 20.1  | 30.1  |





#64

n-propylbenzene

Concen: 0.459 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. -0.01 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Instrument :

MSVOA\_L

ClientSampled :

DSV-01

Tot Ion:120 Resp: 65220

Ion Ratio Lower Upper

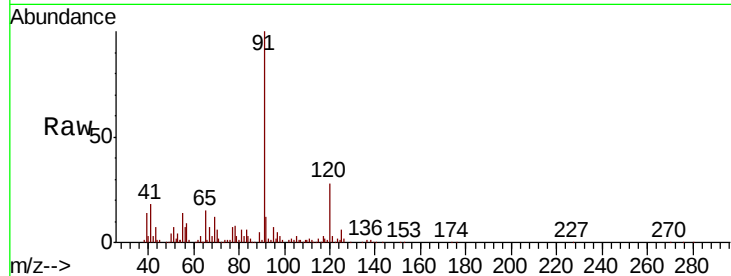
120 100

91 473.6 381.7 572.5

Manual Integrations  
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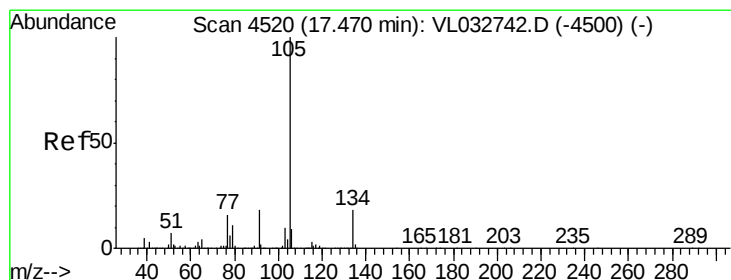
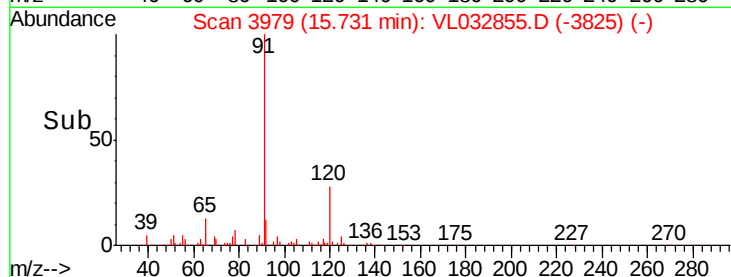
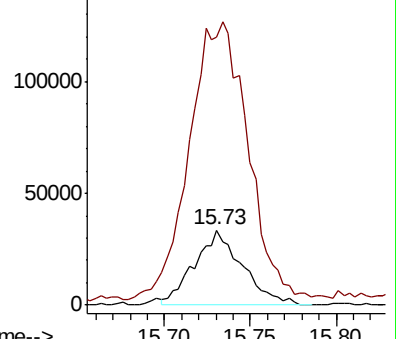
MMDadoda

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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#67

sec-Butylbenzene

Concen: 0.170 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. 0.00 min

Lab File: VL032855.D

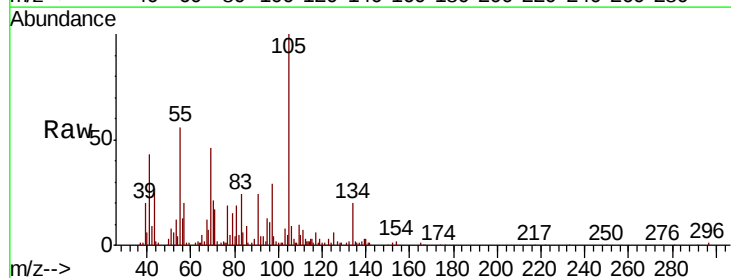
Acq: 30 Nov 2018 19:02

Tgt Ion:105 Resp: 118644

Ion Ratio Lower Upper

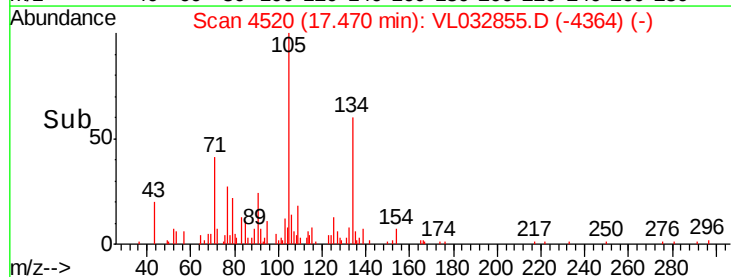
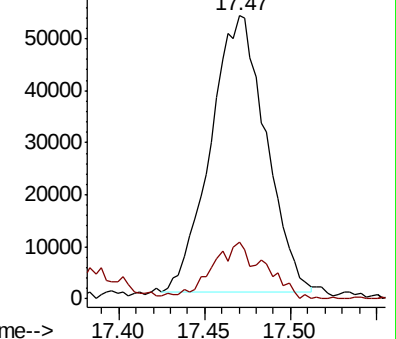
105 100

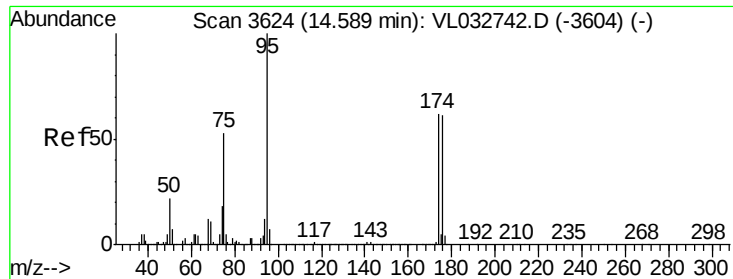
134 19.7 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V





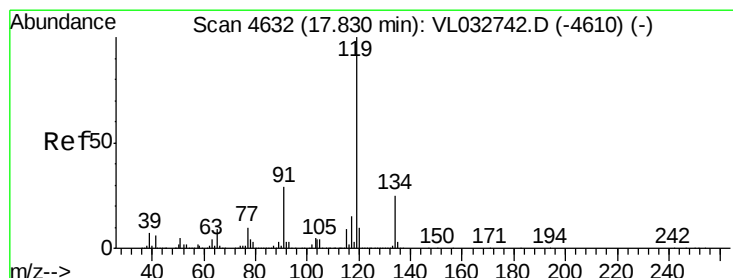
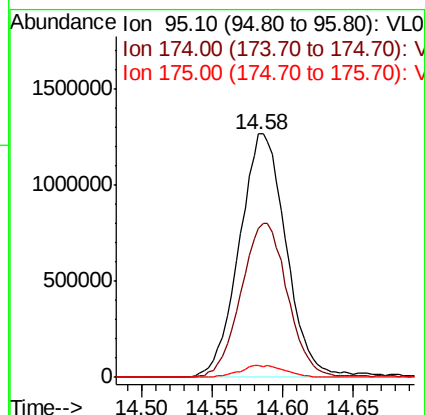
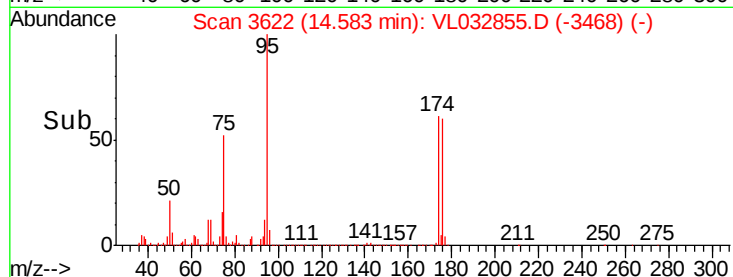
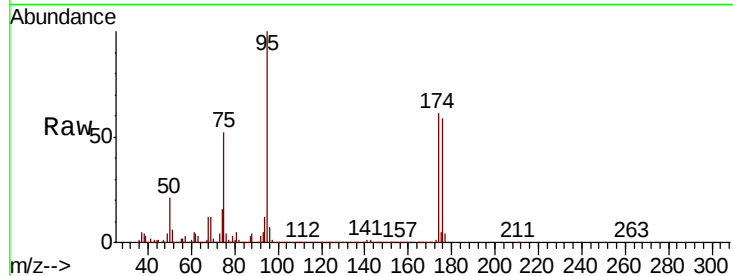
#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.449 ppbv  
RT: 14.58 min Scan# 3622  
Delta R.T. -0.01 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Instrument :  
MSVOA\_L  
ClientSampled :  
DSV-01

Tot Ion: 95 Resp: 2897988  
Ion Ratio Lower Upper  
95 100  
174 64.6 50.7 76.1  
175 4.8 3.8 5.6

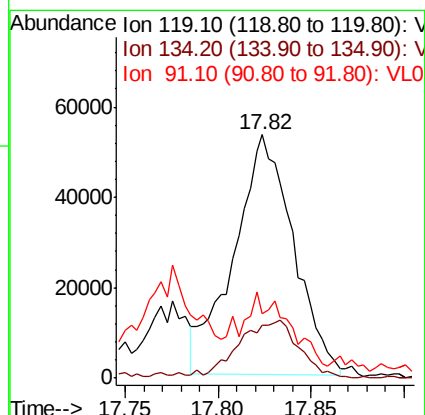
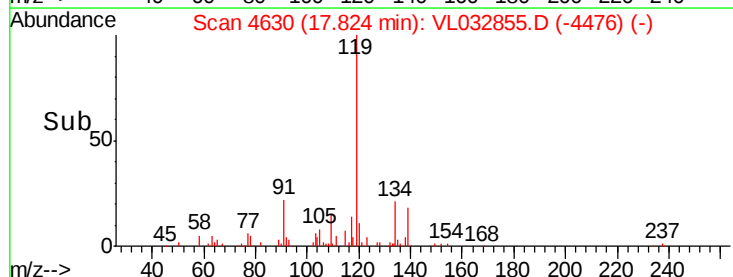
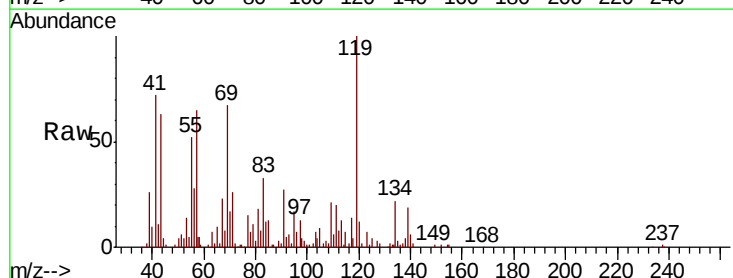
Manual Integrations  
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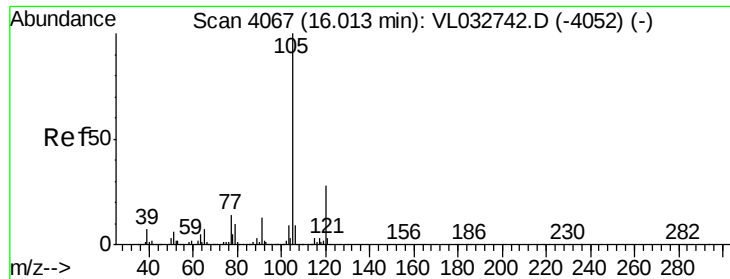
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#69  
p-Isopropyltoluene  
Concen: 0.214 ppbv  
RT: 17.82 min Scan# 4630  
Delta R.T. -0.01 min  
Lab File: VL032855.D  
Acq: 30 Nov 2018 19:02

Tgt Ion: 119 Resp: 118498  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.2 30.4  
91 32.3 23.5 35.3





#72

4-Ethyltoluene

Concen: 0.721 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. -0.00 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

Instrument :

MSVOA\_L

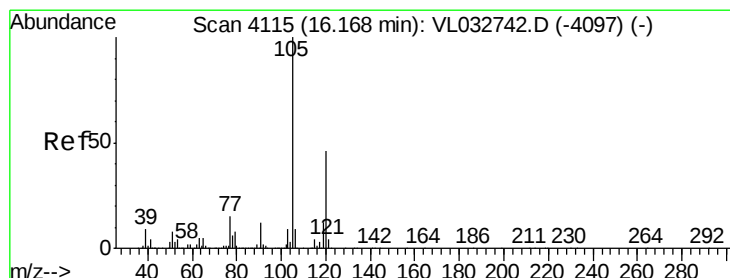
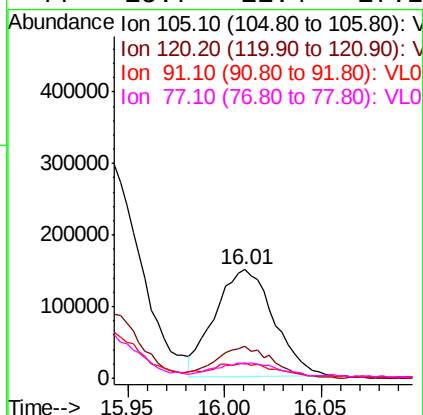
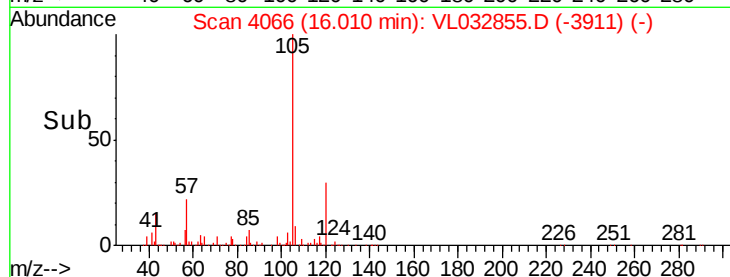
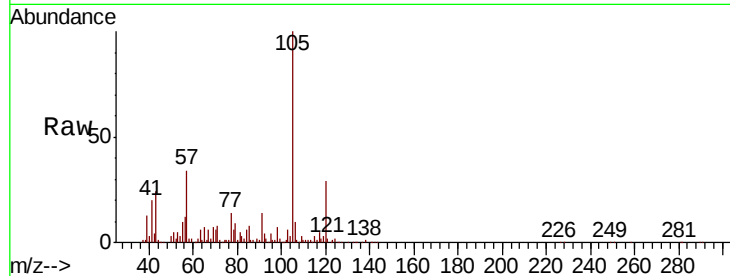
ClientSampled :

DSV-01

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 105     | 100  |       | 315577 |       |       |
| 120     | 29.1 | 22.9  | 34.3   |       |       |
| 91      | 14.7 | 10.6  | 15.8   |       |       |
| 77      | 15.7 | 11.4  | 17.2   |       |       |

Manual Integrations  
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#73

1,3,5-Trimethylbenzene

Concen: 0.933 ppbv

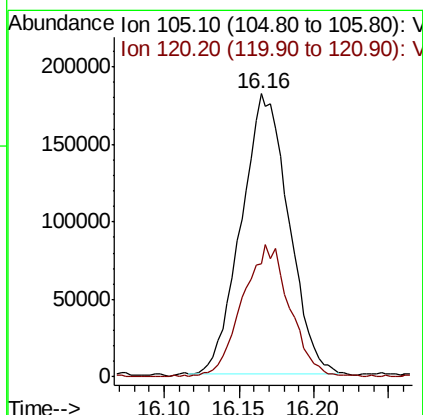
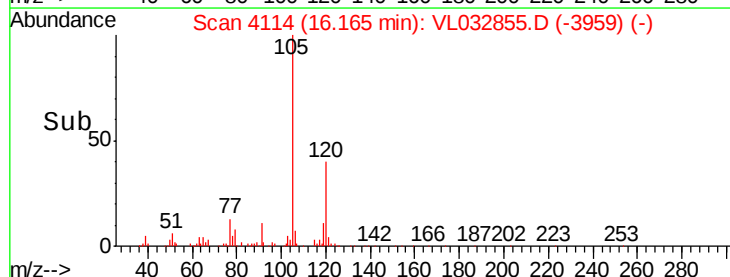
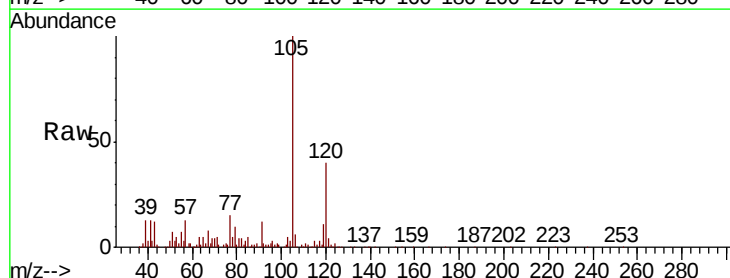
RT: 16.16 min Scan# 4114

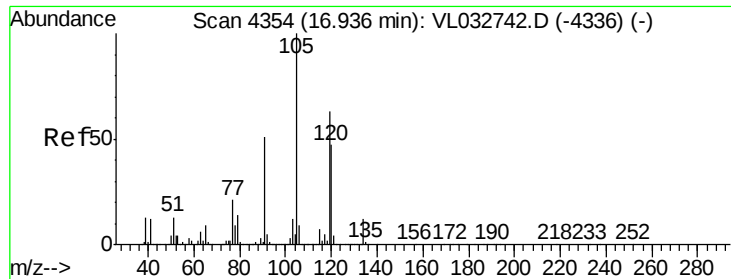
Delta R.T. -0.00 min

Lab File: VL032855.D

Acq: 30 Nov 2018 19:02

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 105     | 100  |       | 399313 |       |       |
| 120     | 39.9 | 36.6  | 55.0   |       |       |





#74  
 1,2,4-Trimethylbenzene  
 Concen: 1.946 ppbv  
 RT: 16.93 min Scan# 4353  
 Delta R.T. -0.00 min  
 Lab File: VL032855.D  
 Acq: 30 Nov 2018 19:02

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-01

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 105     | 100   |            |            |
| 120     | 44.9  | 37.6       | 56.4       |
| 91      | 12.8  | 42.5       | 63.7#      |
| 77      | 13.5  | 17.4       | 26.2#      |

Manual Integrations  
 APPROVED

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 12/3/2018 4:15:50 PM

