

Data File : VL032866.D  
Acq On : 1 Dec 2018 2:12  
Operator : SY/AP  
Sample : J6132-06  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-05

Quant Time: Dec 01 04:05:51 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   | 1373640  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 3603310  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 3513236  | 10.00 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.59  | 95    | 2686408  | 10.22    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.20% |

#### Target Compounds

|                                |       |     |         |         |        | Qvalue |
|--------------------------------|-------|-----|---------|---------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.08  | 85  | 44713   | 0.226   | ppbv   | 97     |
| 3) Chlorodifluoromethane       | 3.02  | 51  | 32546   | 0.299   | ppbv # | 89     |
| 4) Chloromethane               | 3.18  | 50  | 47165   | 0.781   | ppbv   | 94     |
| 5) Vinyl Chloride              | 3.05  | 62  | 27116   | 0.424   | ppbv # | 50     |
| 9) Propene                     | 3.04  | 41  | 6514750 | 149.485 | ppbv   | 99     |
| 10) Heptane                    | 8.26  | 43  | 157967  | 0.949   | ppbv   | 97     |
| 11) Trichlorofluoromethane     | 4.01  | 101 | 72137   | 0.388   | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.56  | 101 | 8749    | 0.058   | ppbv # | 79     |
| 13) Ethanol                    | 3.66  | 45  | 387020  | 27.113  | ppbv   | 98     |
| 15) Acetone                    | 3.91  | 43  | 2266102 | 18.065  | ppbv # | 74     |
| 16) 1,3-Butadiene              | 3.35  | 39  | 3632461 | 74.773  | ppbv # | 21     |
| 17) tert-Butyl alcohol         | 4.38  | 59  | 46963   | 1.194   | ppbv # | 73     |
| 19) Isopropyl Alcohol          | 4.04  | 45  | 14032   | 0.168   | ppbv # | 95     |
| 20) Methylene Chloride         | 4.42  | 84  | 153402  | 2.362   | ppbv # | 89     |
| 21) Allyl Chloride             | 4.47  | 41  | 70893   | 0.672   | ppbv # | 1      |
| 23) Vinyl Acetate              | 5.15  | 43  | 106112  | 0.464   | ppbv # | 1      |
| 25) Ethyl Acetate              | 5.79  | 43  | 589356  | 2.016   | ppbv # | 80     |
| 26) Hexane                     | 5.79  | 57  | 801320  | 6.157   | ppbv # | 38     |
| 27) Carbon Disulfide           | 4.63  | 76  | 2690558 | 16.303  | ppbv   | 99     |
| 29) Chloroform                 | 5.86  | 83  | 40571   | 0.175   | ppbv   | 92     |
| 30) Cyclohexane                | 7.25  | 84  | 15173   | 0.133   | ppbv # | 1      |
| 34) 2-Butanone                 | 5.33  | 43  | 4559445 | 24.396  | ppbv   | 98     |
| 36) Benzene                    | 7.01  | 78  | 1001955 | 3.492   | ppbv   | 98     |
| 39) 1,2-Dichloropropane        | 7.30  | 63  | 858387  | 7.852   | ppbv # | 26     |
| 41) Tetrahydrofuran            | 6.17  | 42  | 4275    | 0.040   | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane     | 8.00  | 57  | 337872  | 0.705   | ppbv   | 94     |
| 50) 4-Methyl-2-Pentanone       | 8.88  | 43  | 9748    | 0.033   | ppbv # | 39     |
| 51) 2-Hexanone                 | 10.28 | 43  | 556880  | 2.961   | ppbv # | 99     |
| 52) Tetrachloroethene          | 11.38 | 164 | 7432    | 0.074   | ppbv # | 74     |
| 53) Toluene                    | 9.96  | 91  | 773877  | 2.585   | ppbv   | 99     |
| 58) Ethyl Benzene              | 12.87 | 91  | 206776  | 0.489   | ppbv   | 97     |
| 59) m/p-Xylene                 | 13.13 | 91  | 344920  | 0.916   | ppbv   | 97     |
| 60) o-Xylene                   | 13.86 | 91  | 167655  | 0.443   | ppbv   | 99     |
| 61) Styrene                    | 13.69 | 104 | 88226   | 0.358   | ppbv   | 97     |
| 64) n-propylbenzene            | 15.73 | 120 | 4633    | 0.034   | ppbv # | 1      |
| 67) sec-Butylbenzene           | 17.12 | 105 | 41579   | 0.063   | ppbv   | 98     |
| 69) p-Isopropyltoluene         | 17.82 | 119 | 316227  | 0.602   | ppbv   | 100    |
| 71) 2-Chlorotoluene            | 15.73 | 91  | 52364   | 0.137   | ppbv # | 47     |
| 72) 4-Ethyltoluene             | 16.01 | 105 | 37349   | 0.090   | ppbv # | 67     |
| 73) 1,3,5-Trimethylbenzene     | 16.17 | 105 | 68735   | 0.169   | ppbv   | 97     |
| 74) 1,2,4-Trimethylbenzene     | 16.93 | 105 | 173720  | 0.400   | ppbv # | 66     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_L\DATA\VL113018\  
Quantitation Report (Not Reviewed)

Data File : VL032866.D  
Acq On : 1 Dec 2018 2:12  
Operator : SY/AP  
Sample : J6132-06  
Misc : 400ml/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-05

Quant Time: Dec 01 04:05:51 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) |
|--------------------|-------|------|----------|-------|-------|----------|
| 79) Naphthalene    | 22.44 | 128  | 16469    | 0.058 | ppbv  | 98       |

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

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Acq On : 1 Dec 2018 2:12

Operator : SY/AP

Sample : J6132-06

Misc : 400ml/MSVOA\_L

ALS Vial : 1 Sample Multiplier: 1

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
DSV-05

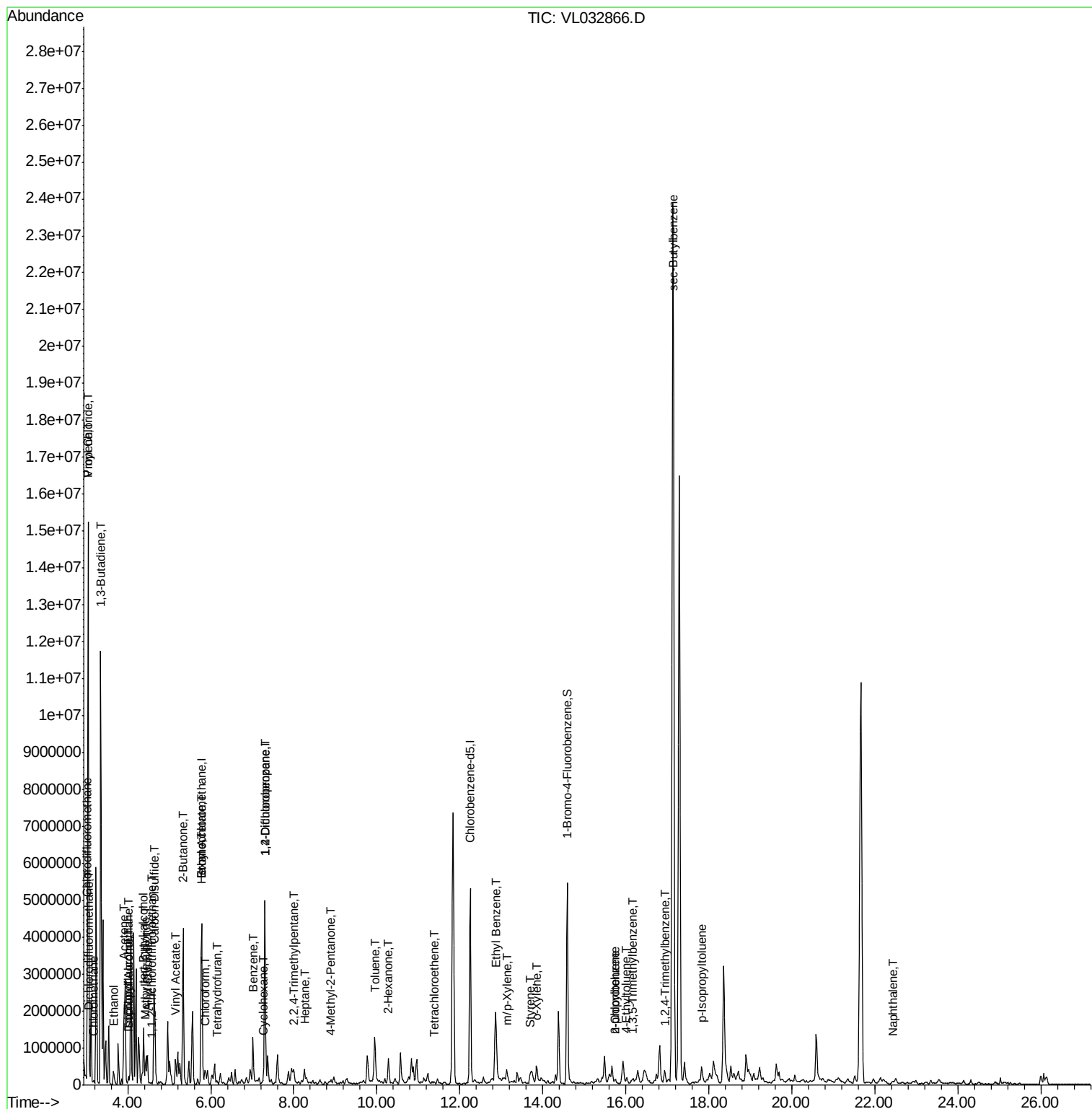
Quant Time: Dec 01 04:05:51 2018

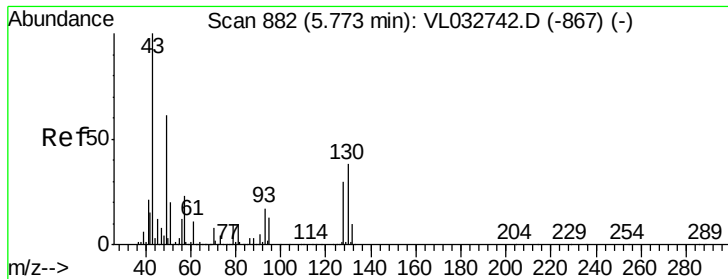
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_L\METHODS\VL111418AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LWed Nov 14 07:00:23 2018

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: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

DSV-05

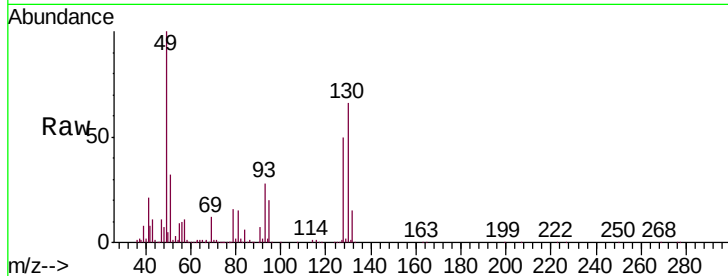
Tgt Ion: 49 Resp: 1373640

Ion Ratio Lower Upper

49 100

128 52.8 24.9 74.6

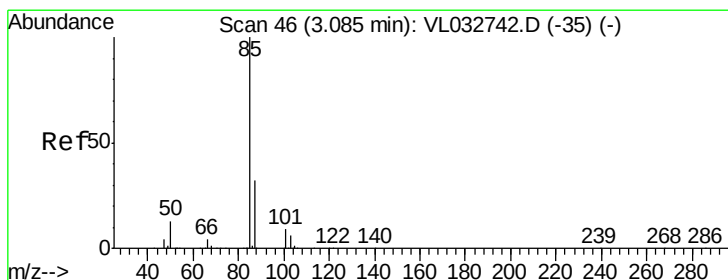
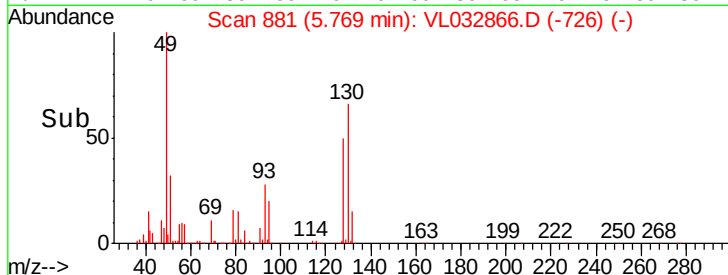
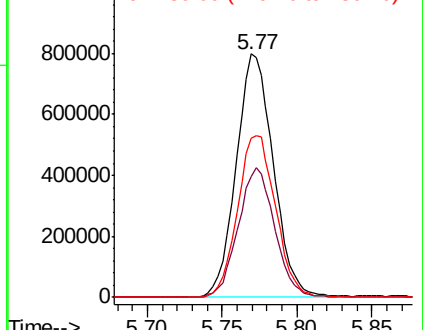
130 68.8 31.4 94.2



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: 0.226 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032866.D

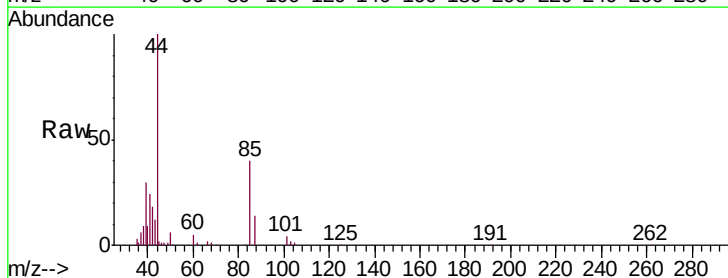
Acq: 1 Dec 2018 2:12

Tgt Ion: 85 Resp: 44713

Ion Ratio Lower Upper

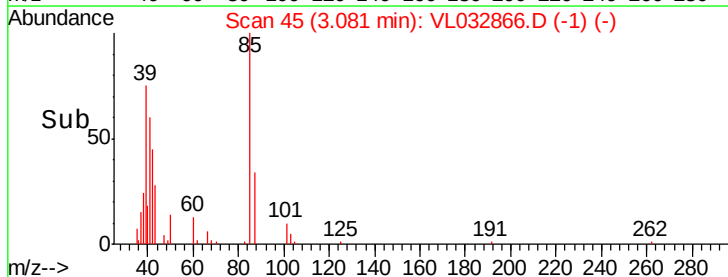
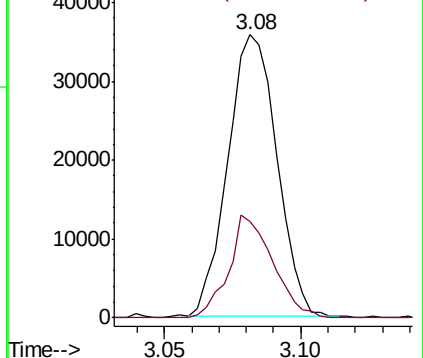
85 100

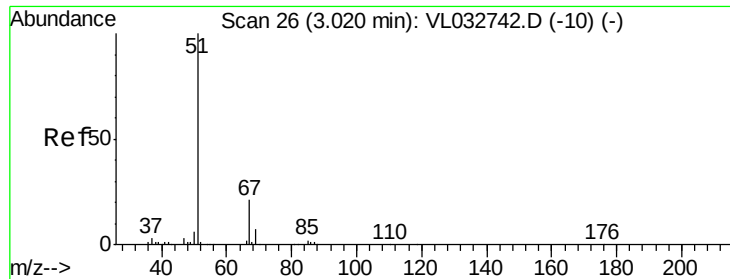
87 34.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.299 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

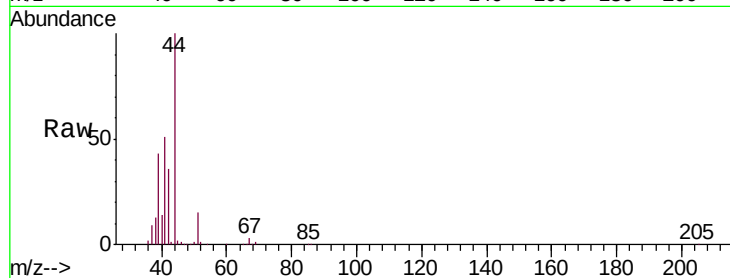
DSV-05

Tgt Ion: 51 Resp: 32546

Ion Ratio Lower Upper

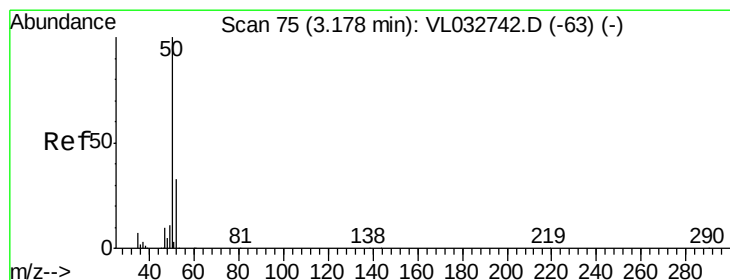
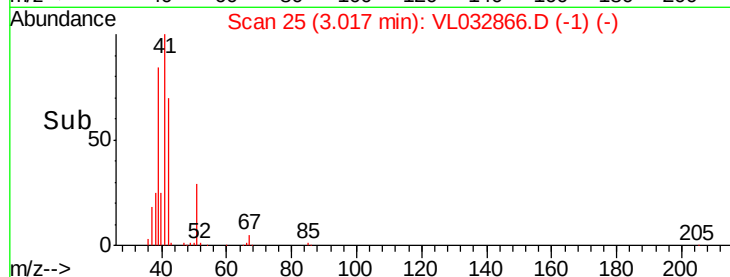
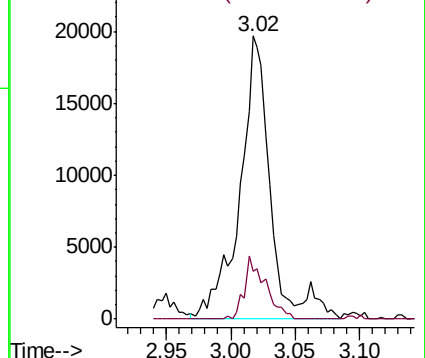
51 100

67 15.3 16.1 24.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.781 ppbv

RT: 3.18 min Scan# 75

Delta R.T. -0.00 min

Lab File: VL032866.D

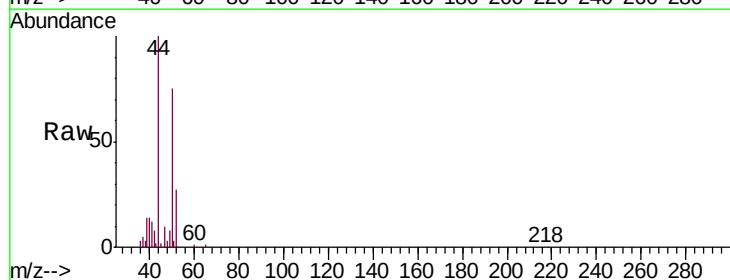
Acq: 1 Dec 2018 2:12

Tgt Ion: 50 Resp: 47165

Ion Ratio Lower Upper

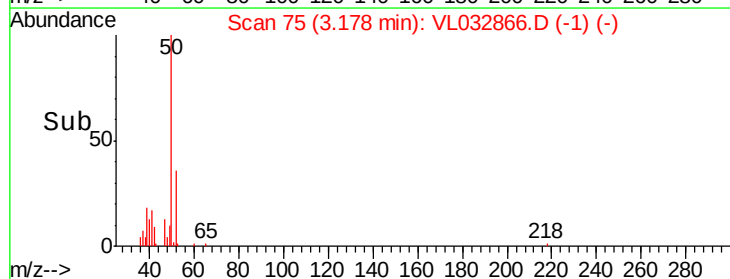
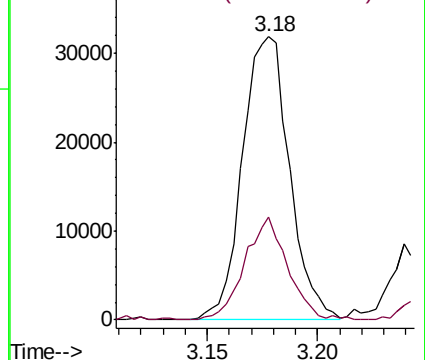
50 100

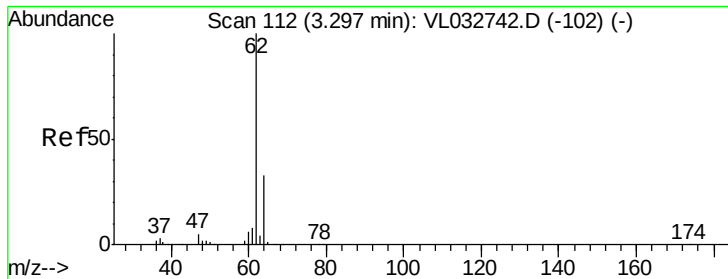
52 36.6 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.424 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.24 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

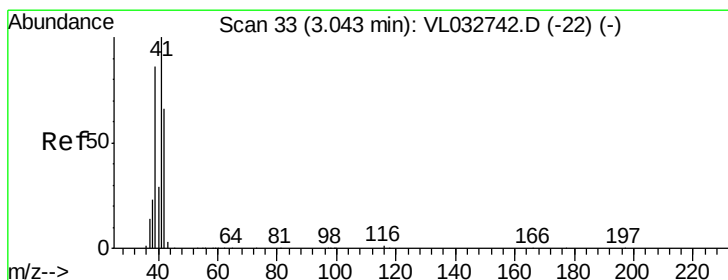
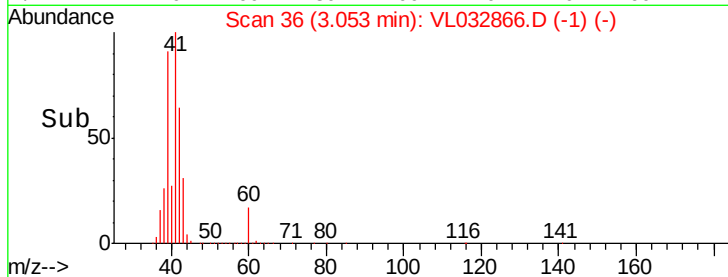
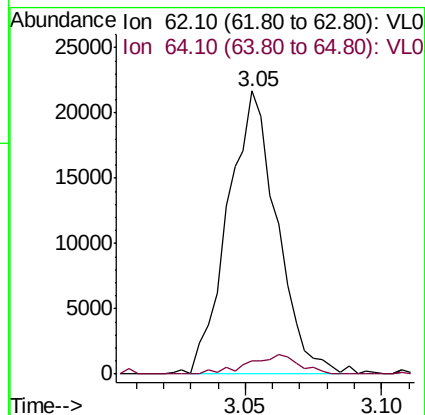
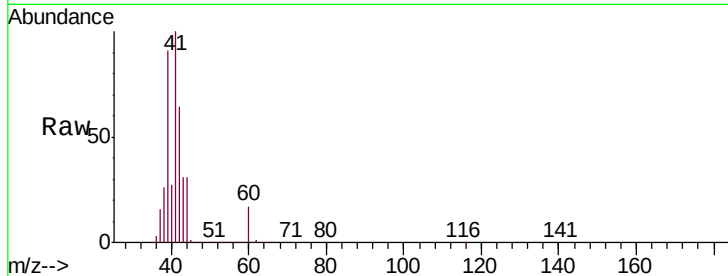
DSV-05

Tgt Ion: 62 Resp: 27116

Ion Ratio Lower Upper

62 100

64 4.9 26.2 39.4#



#9

Propene

Concen: 149.485 ppbv

RT: 3.04 min Scan# 33

Delta R.T. -0.00 min

Lab File: VL032866.D

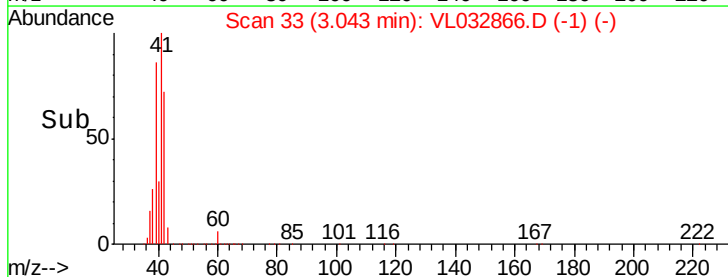
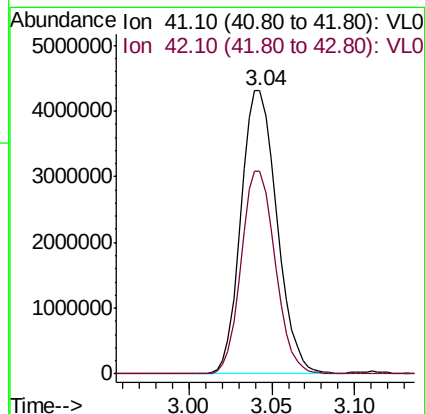
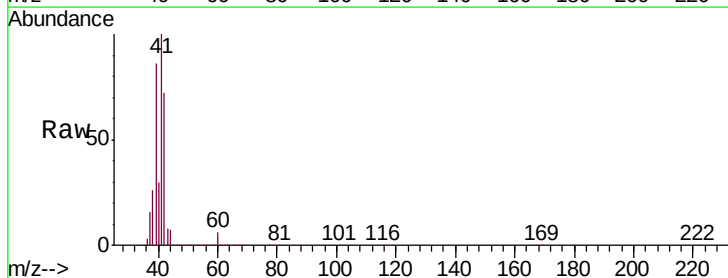
Acq: 1 Dec 2018 2:12

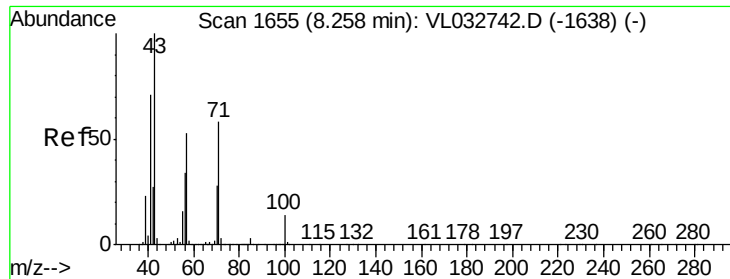
Tgt Ion: 41 Resp: 6514750

Ion Ratio Lower Upper

41 100

42 68.0 55.0 82.6





#10

Heptane

Concen: 0.949 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampled :

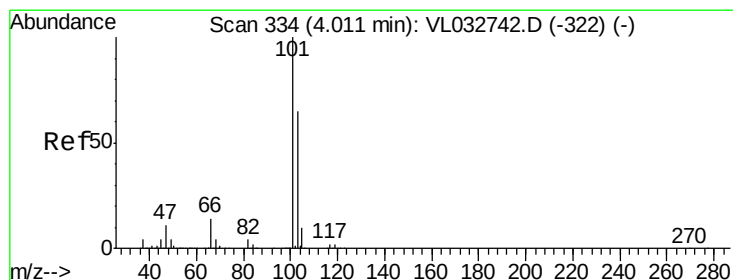
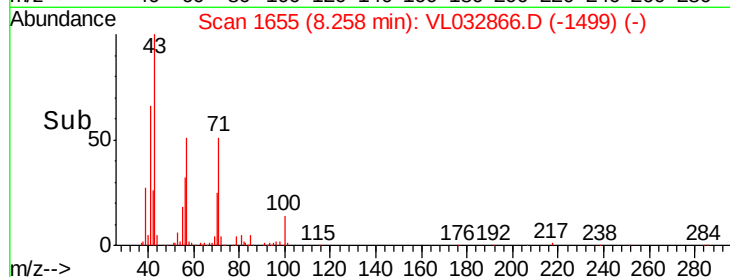
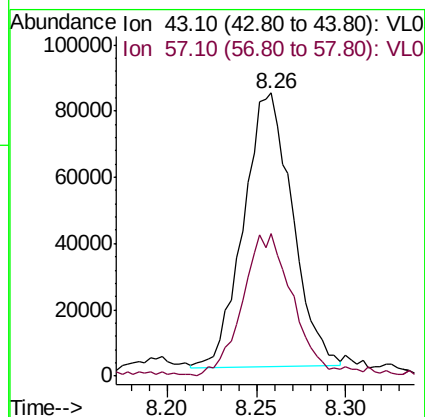
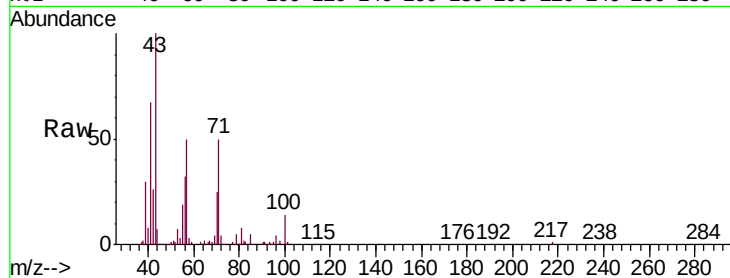
DSV-05

Tgt Ion: 43 Resp: 157967

Ion Ratio Lower Upper

43 100

57 54.7 41.8 62.8



#11

Trichlorofluoromethane

Concen: 0.388 ppbv

RT: 4.01 min Scan# 335

Delta R.T. 0.00 min

Lab File: VL032866.D

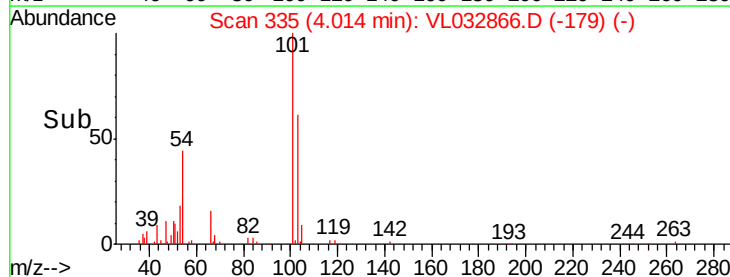
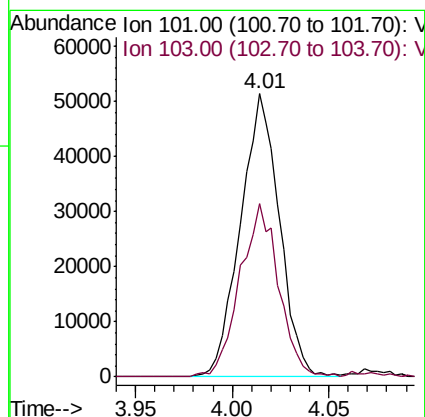
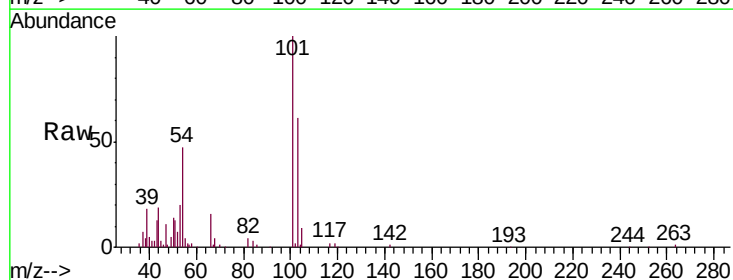
Acq: 1 Dec 2018 2:12

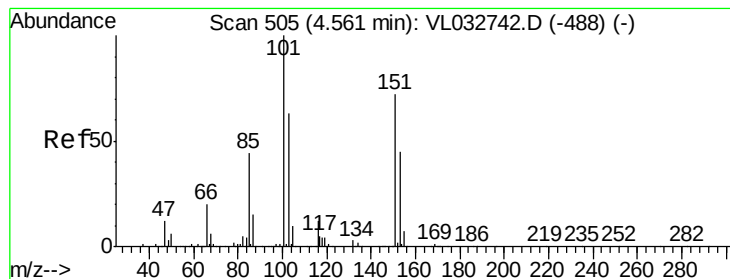
Tgt Ion: 101 Resp: 72137

Ion Ratio Lower Upper

101 100

103 61.1 51.6 77.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.058 ppbv

RT: 4.56 min Scan# 506

Delta R.T. 0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

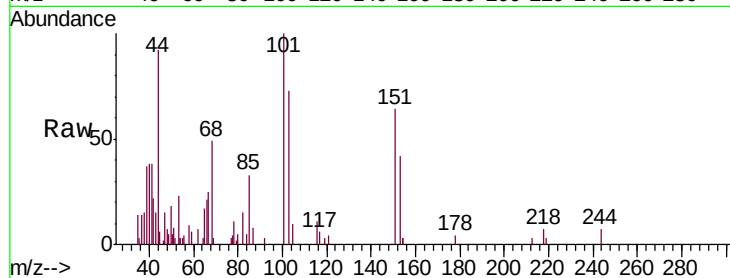
DSV-05

Tgt Ion:101 Resp: 8749

Ion Ratio Lower Upper

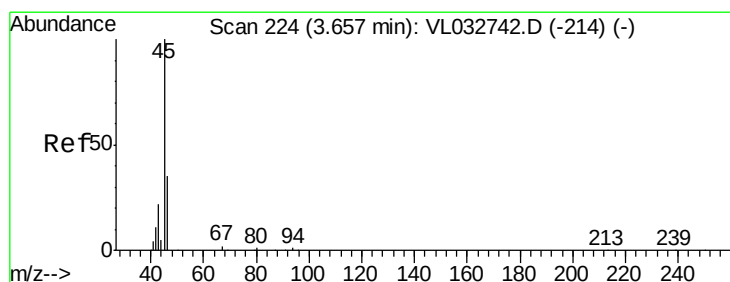
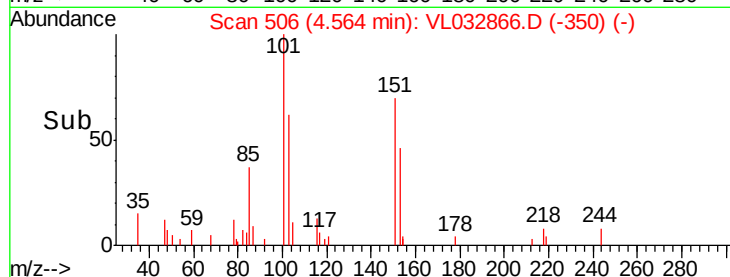
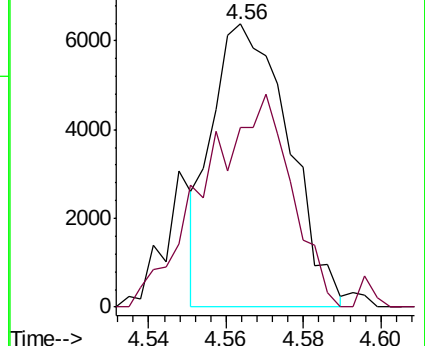
101 100

151 88.0 56.7 85.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 27.113 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.00 min

Lab File: VL032866.D

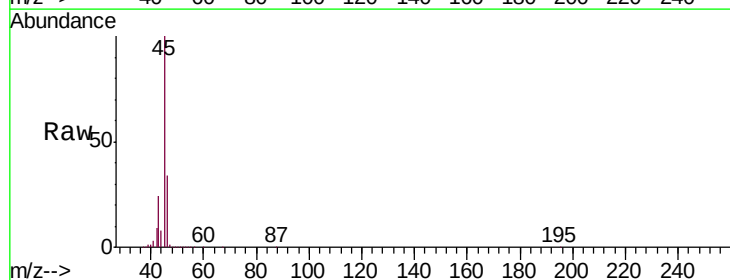
Acq: 1 Dec 2018 2:12

Tgt Ion: 45 Resp: 387020

Ion Ratio Lower Upper

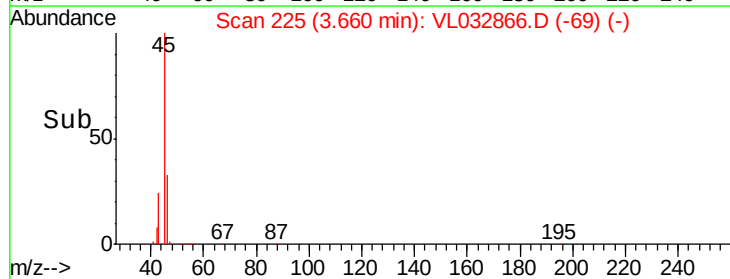
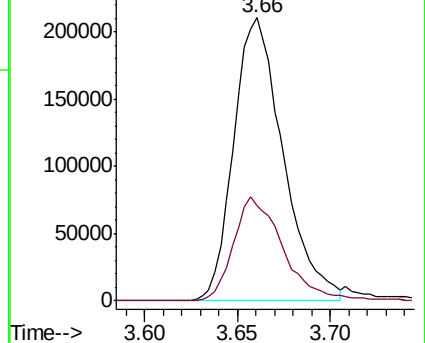
45 100

46 37.6 14.5 57.9

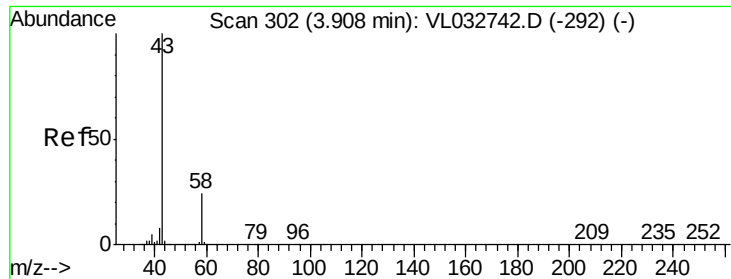


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0







#15

Acetone

Concen: 18.065 ppbv

RT: 3.91 min Scan# 302

Delta R.T. -0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

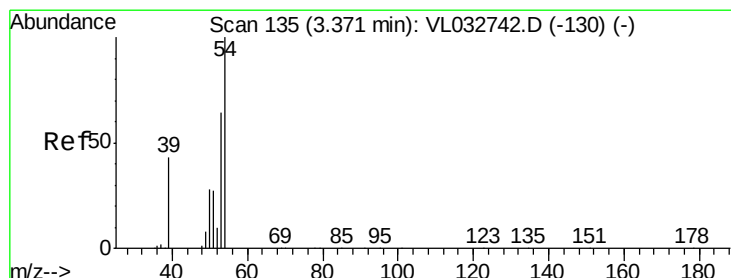
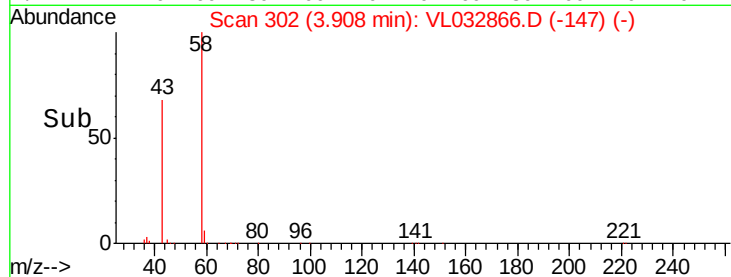
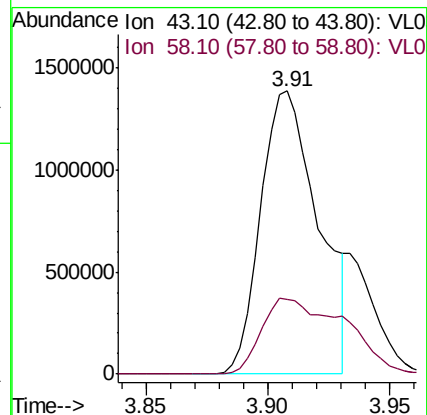
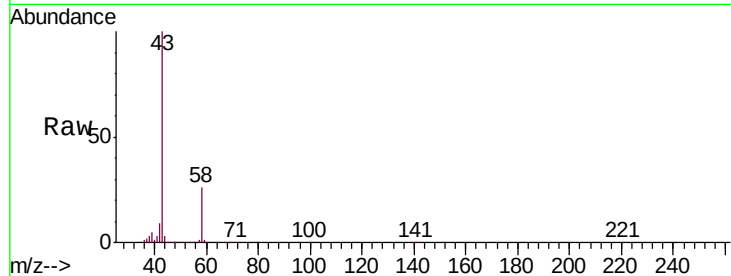
DSV-05

Tgt Ion: 43 Resp: 2266102

Ion Ratio Lower Upper

43 100

58 39.5 21.1 31.7#



#16

1,3-Butadiene

Concen: 74.773 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.02 min

Lab File: VL032866.D

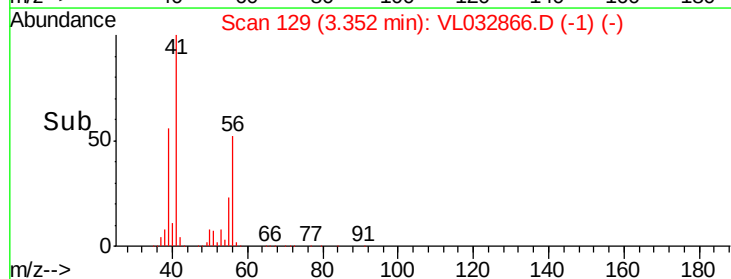
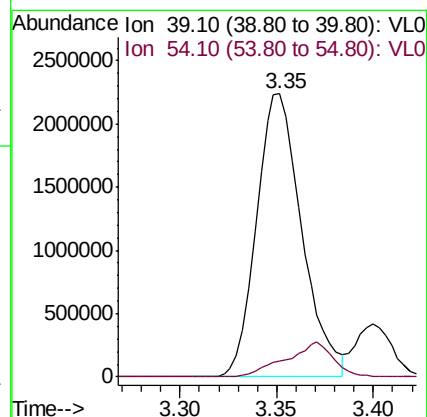
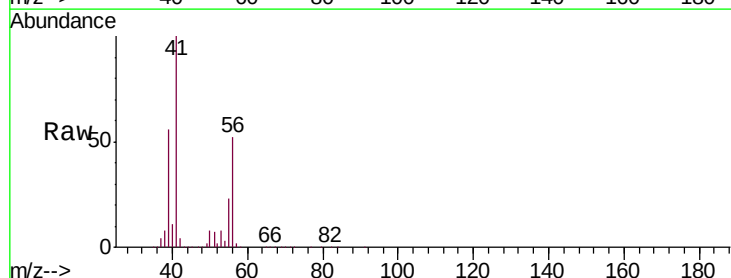
Acq: 1 Dec 2018 2:12

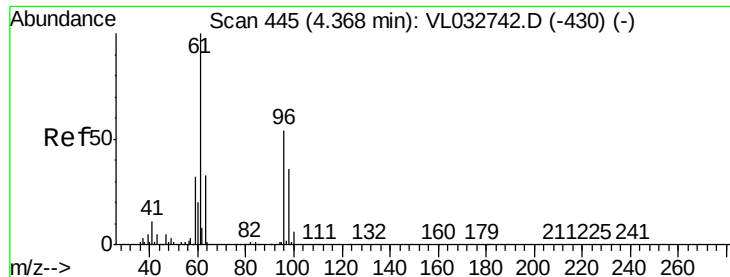
Tgt Ion: 39 Resp: 3632461

Ion Ratio Lower Upper

39 100

54 13.3 68.9 103.3#





#17

tert-Butyl alcohol

Concen: 1.194 ppbv

RT: 4.38 min Scan# 448

Delta R.T. 0.01 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

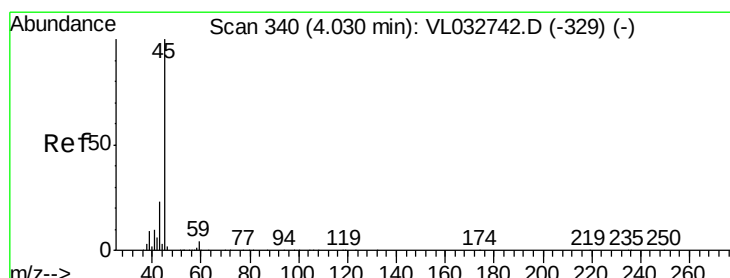
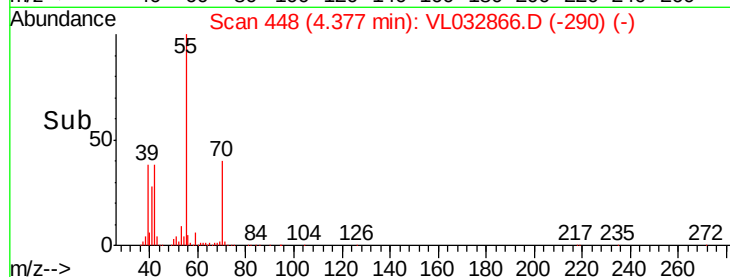
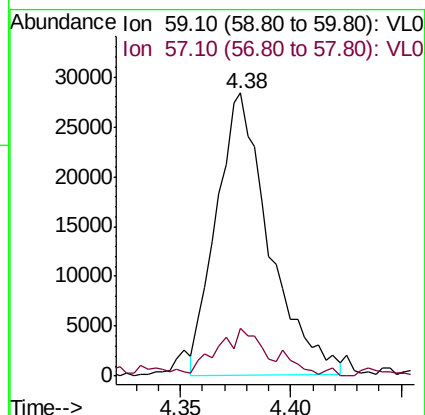
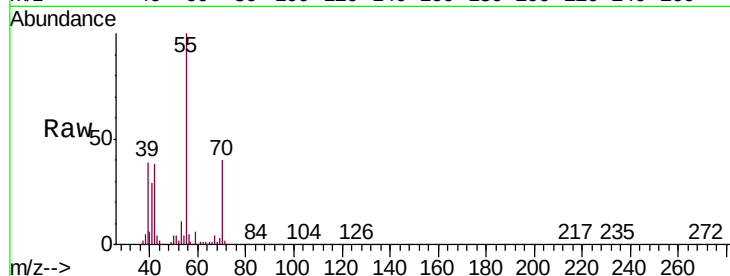
DSV-05

Tgt Ion: 59 Resp: 46963

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



#19

Isopropyl Alcohol

Concen: 0.168 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL032866.D

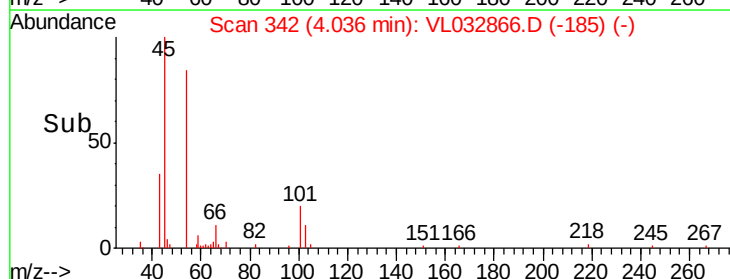
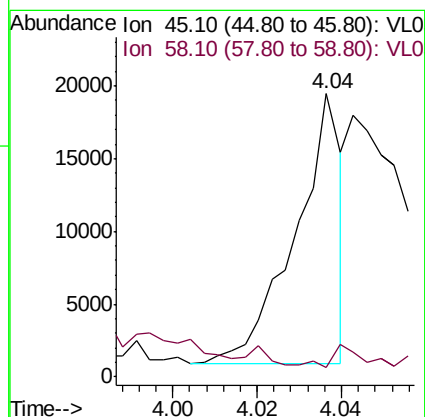
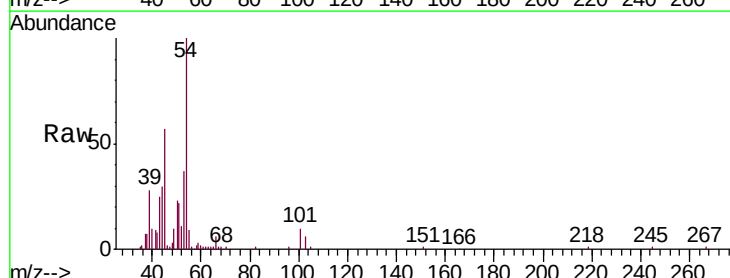
Acq: 1 Dec 2018 2:12

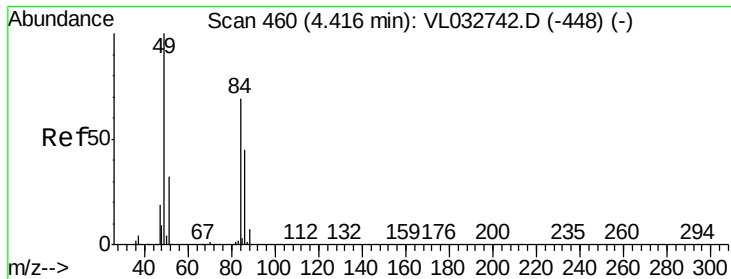
Tgt Ion: 45 Resp: 14032

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#

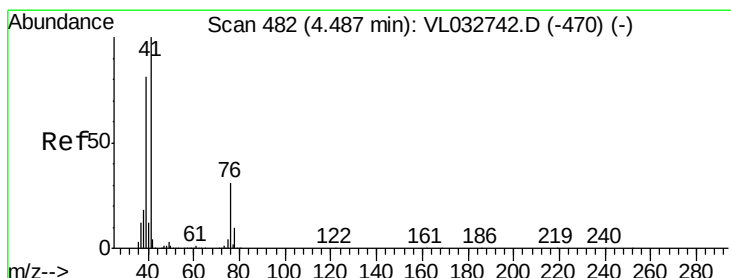
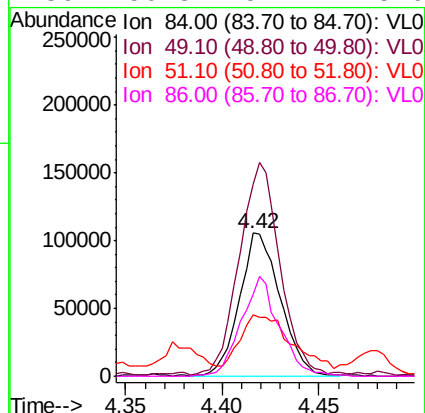
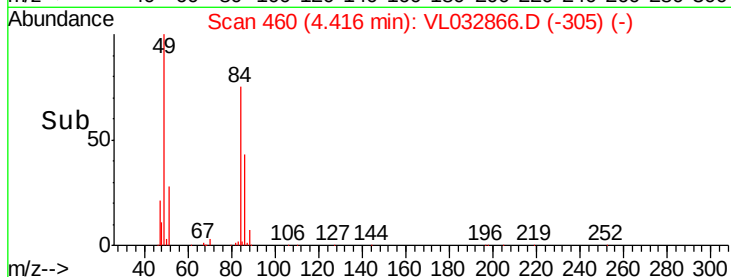
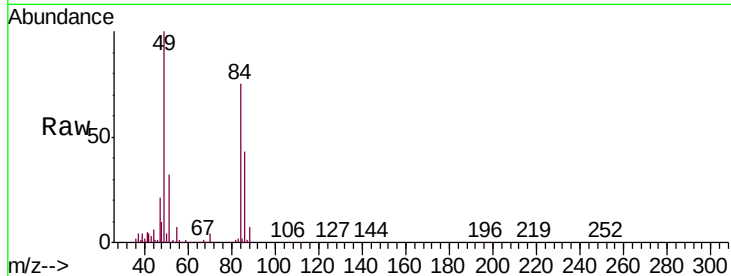




#20  
Methylene Chloride  
Concen: 2.362 ppbv  
RT: 4.42 min Scan# 460  
Delta R.T. -0.00 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

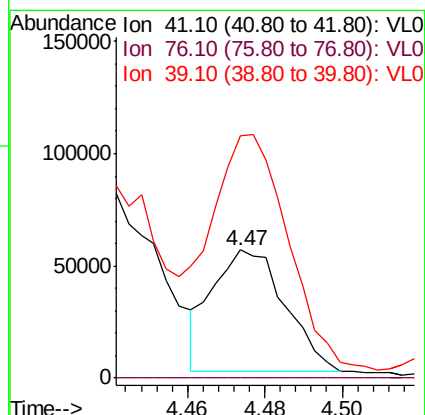
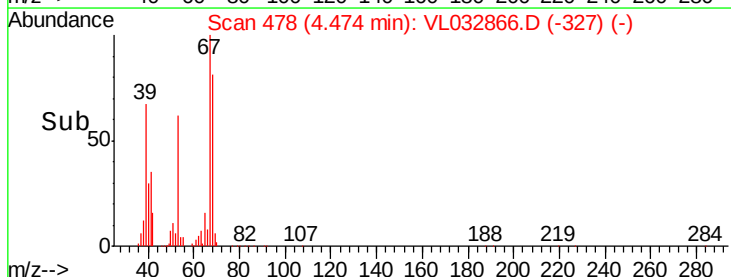
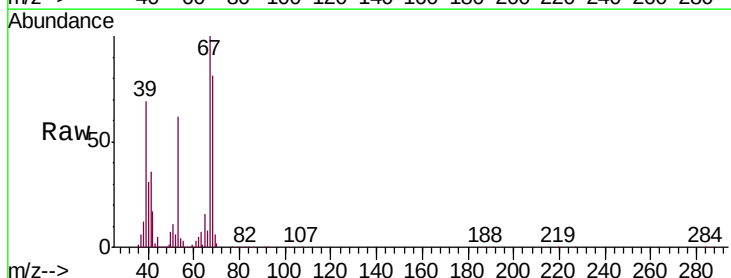
Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-05

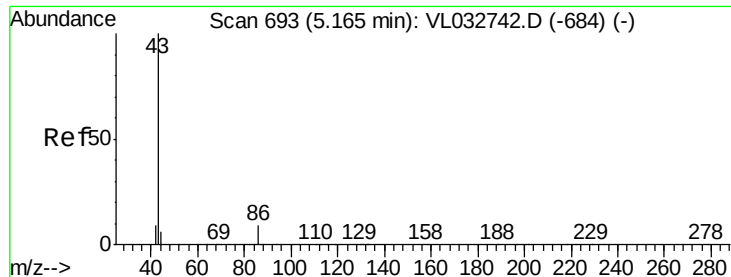
Tgt Ion: 84 Resp: 153402  
Ion Ratio Lower Upper  
84 100  
49 133.3 115.8 173.6  
51 34.8 36.9 55.3#  
86 56.8 52.4 78.6



#21  
Allyl Chloride  
Concen: 0.672 ppbv  
RT: 4.47 min Scan# 478  
Delta R.T. -0.01 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

Tgt Ion: 41 Resp: 70893  
Ion Ratio Lower Upper  
41 100  
76 0.0 24.4 36.6#  
39 201.0 63.5 95.3#





#23

Vinyl Acetate

Concen: 0.464 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.02 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

DSV-05

Tgt Ion: 43 Resp: 106112

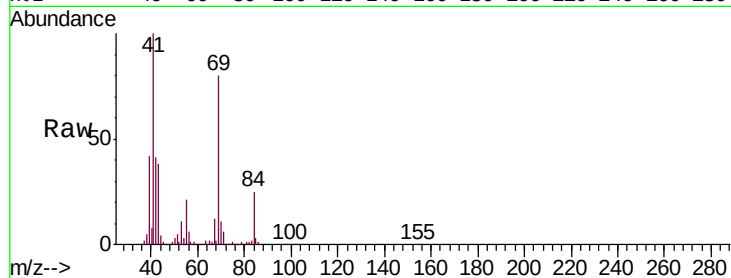
Ion Ratio Lower Upper

43 100

86 2.7 6.2 9.4#

42 105.1 7.8 11.6#

44 5.2 4.4 6.6

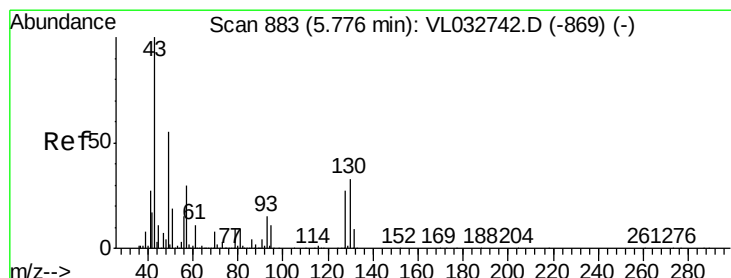
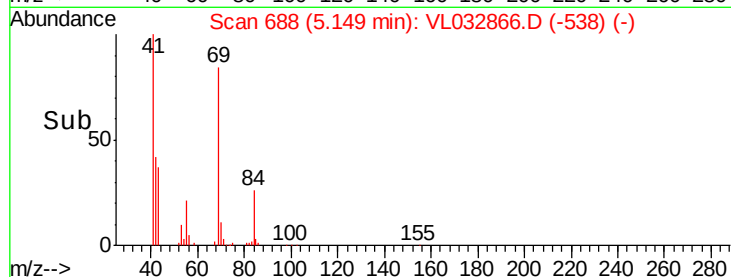
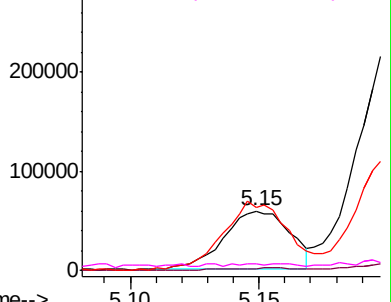


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 2.016 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.01 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Tgt Ion: 43 Resp: 589356

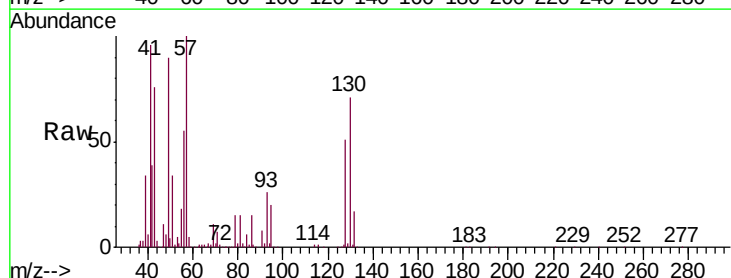
Ion Ratio Lower Upper

43 100

45 1.4 7.9 11.9#

61 1.0 7.8 11.6#

70 3.4 5.8 8.6#

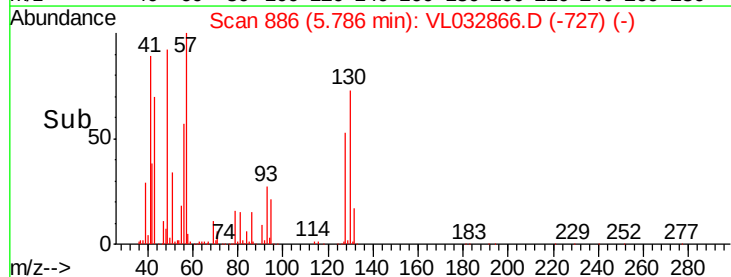
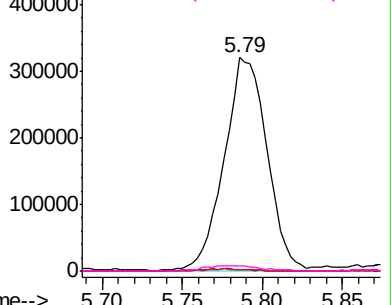


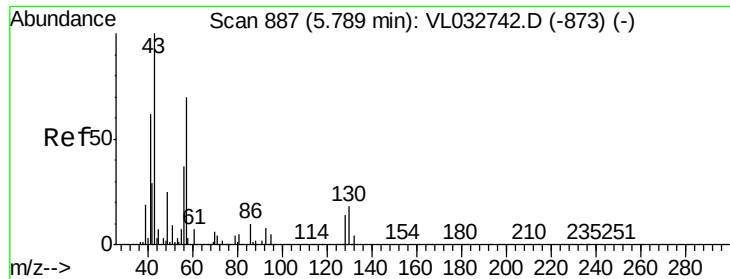
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

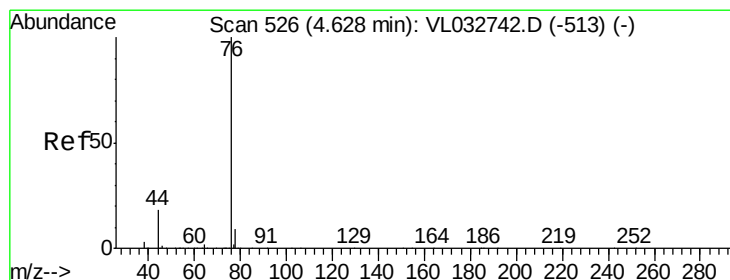
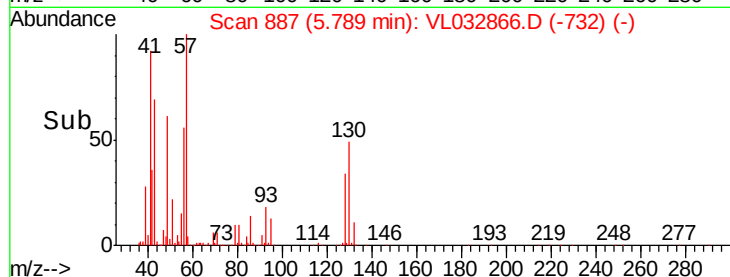
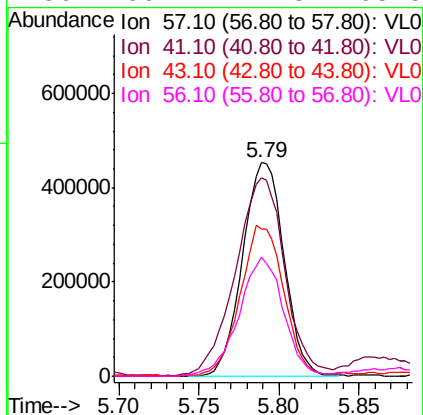
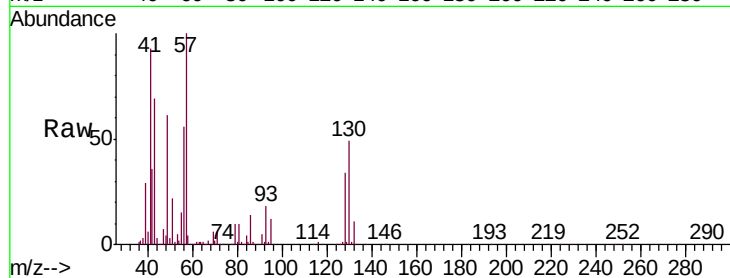




#26  
Hexane  
Concen: 6.157 ppbv  
RT: 5.79 min Scan# 887  
Delta R.T. -0.00 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

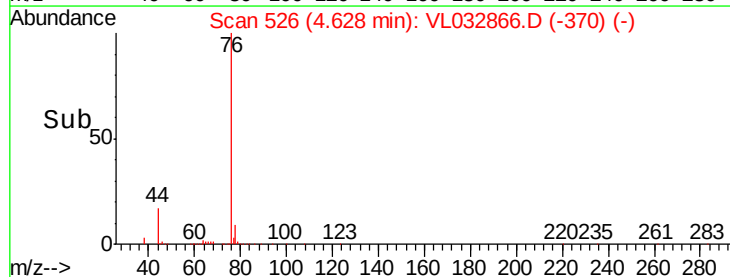
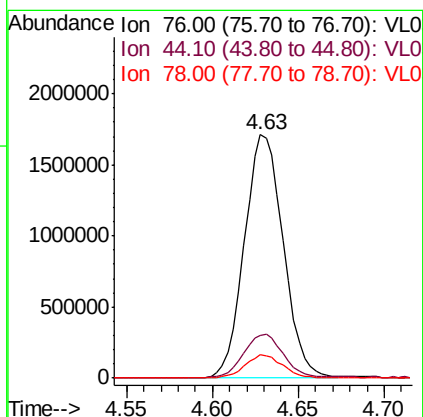
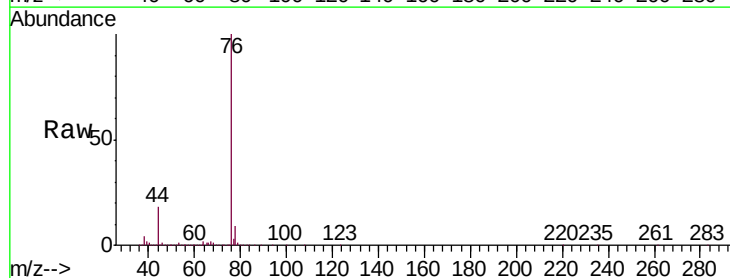
Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-05

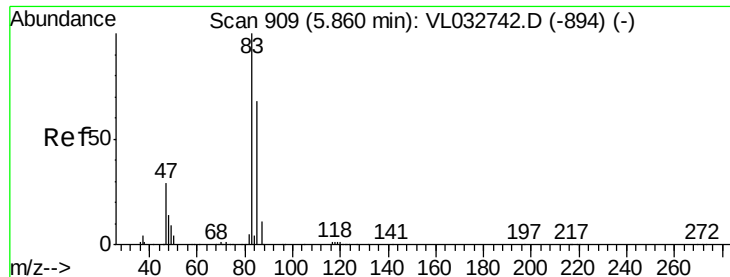
Tgt Ion: 57 Resp: 801320  
Ion Ratio Lower Upper  
57 100  
41 110.2 70.3 105.5#  
43 74.1 174.0 261.0#  
56 60.2 42.3 63.5



#27  
Carbon Disulfide  
Concen: 16.303 ppbv  
RT: 4.63 min Scan# 526  
Delta R.T. -0.00 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

Tgt Ion: 76 Resp: 2690558  
Ion Ratio Lower Upper  
76 100  
44 18.2 14.4 21.6  
78 9.3 7.7 11.5





#29

Chloroform

Concen: 0.175 ppbv

RT: 5.86 min Scan# 909

Delta R.T. -0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

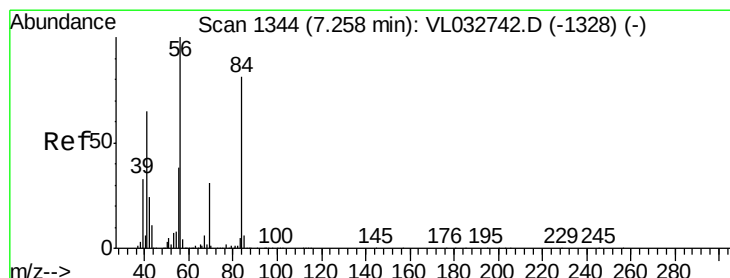
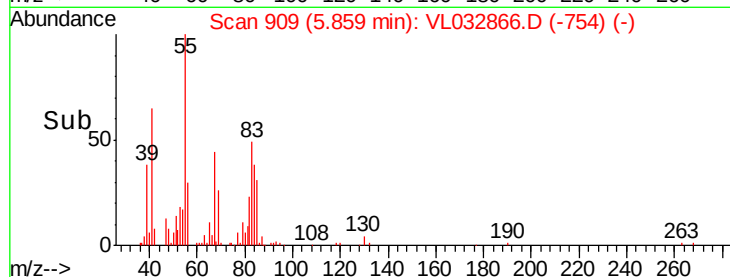
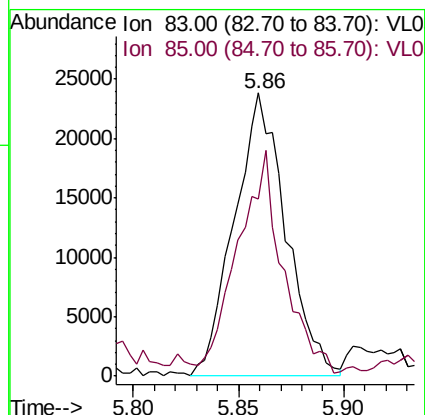
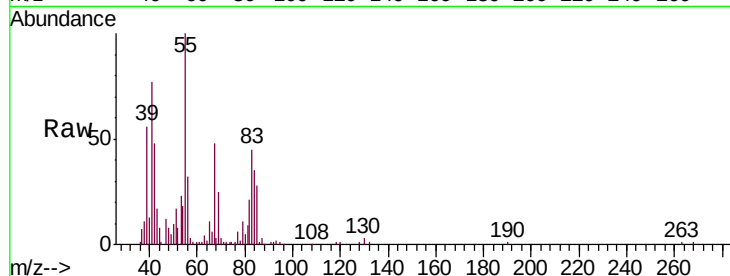
DSV-05

Tgt Ion: 83 Resp: 40571

Ion Ratio Lower Upper

83 100

85 61.3 54.2 81.4



#30

Cyclohexane

Concen: 0.133 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. -0.01 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

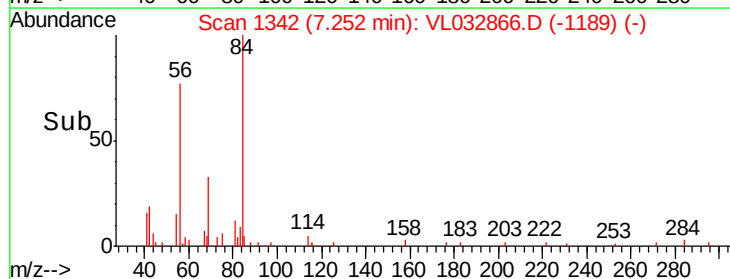
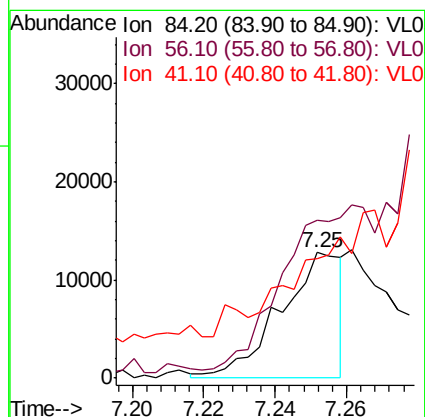
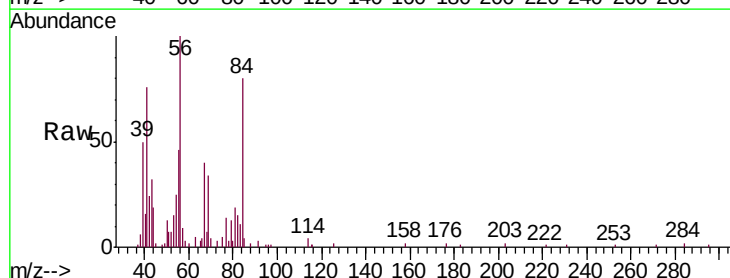
Tgt Ion: 84 Resp: 15173

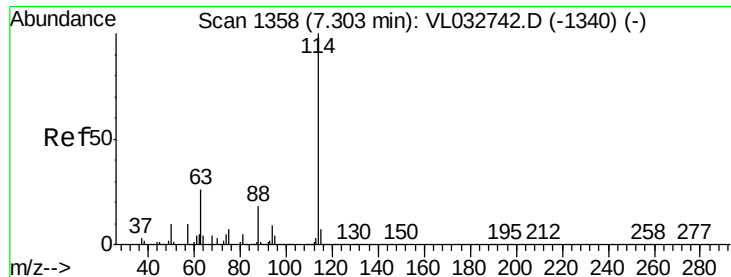
Ion Ratio Lower Upper

84 100

56 0.0 105.0 157.4#

41 0.0 65.3 97.9#

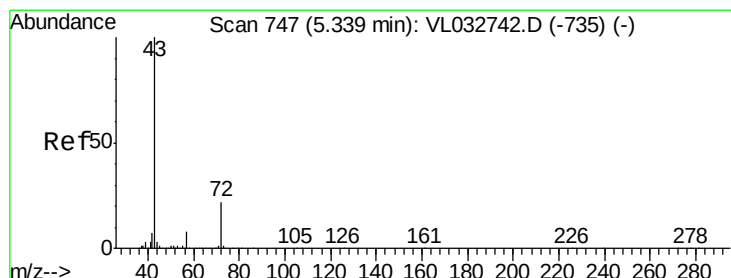
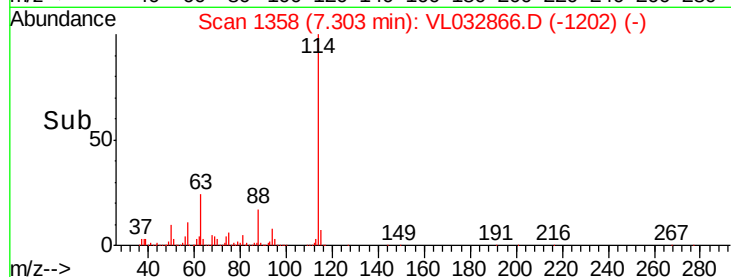
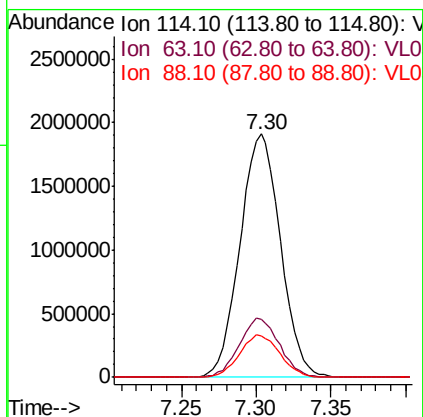
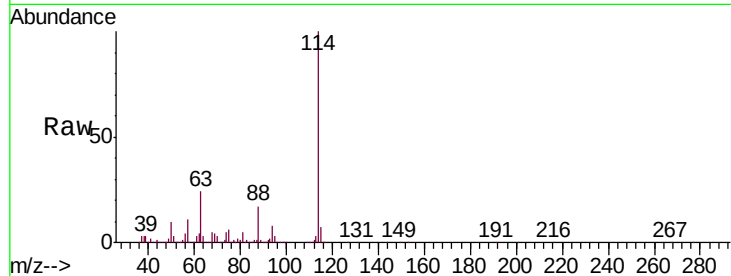




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.30 min Scan# 1358  
 Delta R.T. -0.00 min  
 Lab File: VL032866.D  
 Acq: 1 Dec 2018 2:12

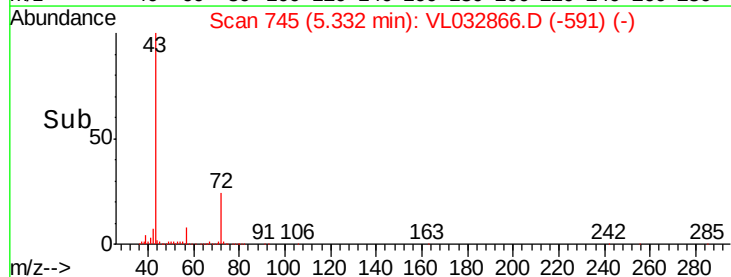
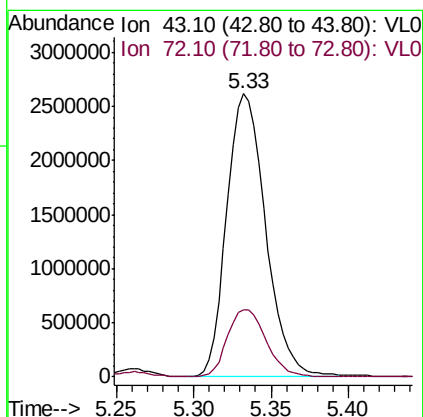
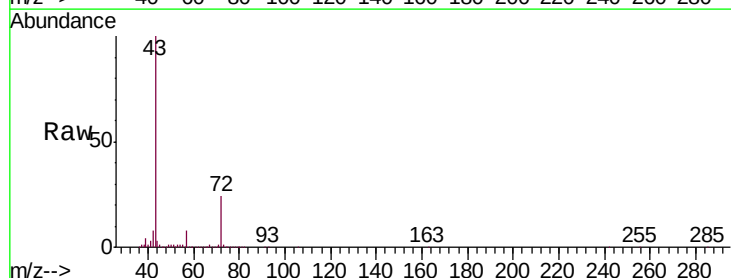
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-05

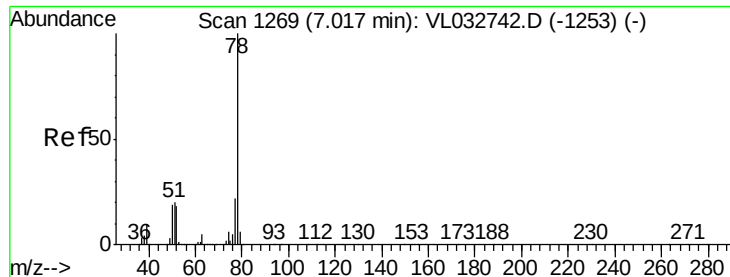
Tgt Ion:114 Resp: 3603310  
 Ion Ratio Lower Upper  
 114 100  
 63 24.2 20.9 31.3  
 88 17.5 14.4 21.6



#34  
 2-Butanone  
 Concen: 24.396 ppbv  
 RT: 5.33 min Scan# 745  
 Delta R.T. -0.01 min  
 Lab File: VL032866.D  
 Acq: 1 Dec 2018 2:12

Tgt Ion: 43 Resp: 4559445  
 Ion Ratio Lower Upper  
 43 100  
 72 24.0 18.4 27.6





#36

Benzene

Concen: 3.492 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

DSV-05

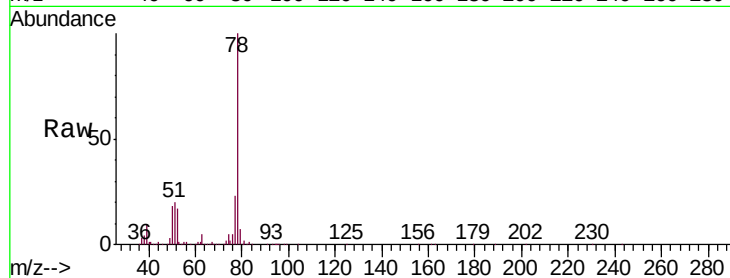
Tgt Ion: 78 Resp: 1001955

Ion Ratio Lower Upper

78 100

77 22.7 17.8 26.8

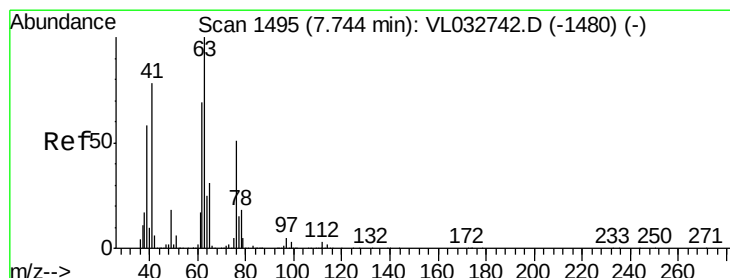
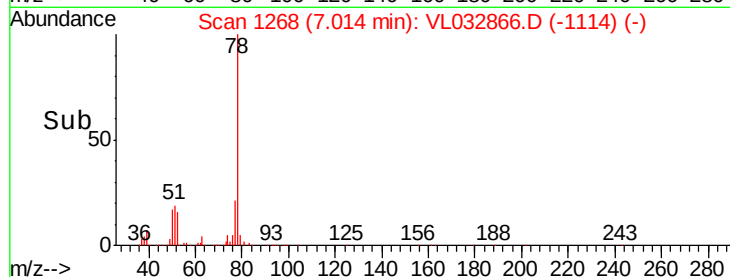
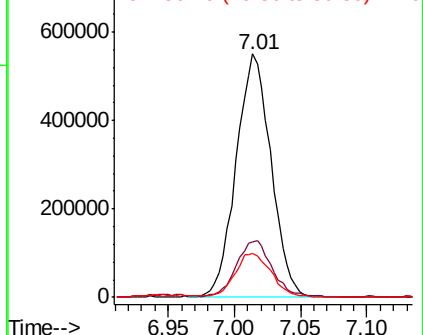
50 17.7 15.4 23.0



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



#39

1,2-Dichloropropane

Concen: 7.852 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

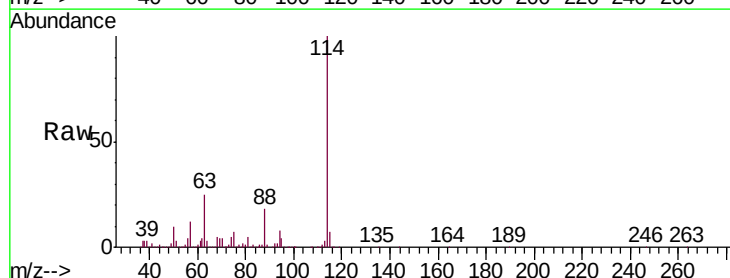
Tgt Ion: 63 Resp: 858387

Ion Ratio Lower Upper

63 100

41 5.7 62.0 93.0#

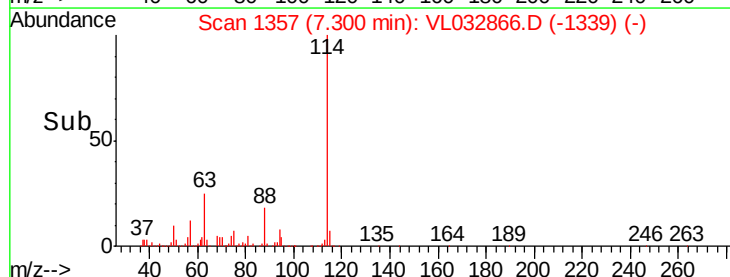
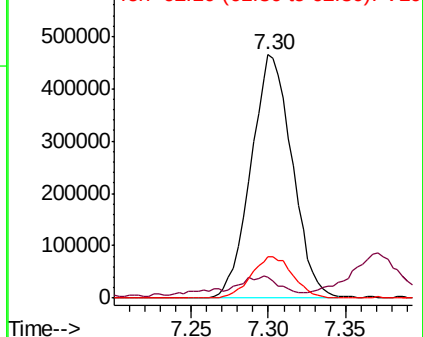
62 16.7 55.4 83.2#



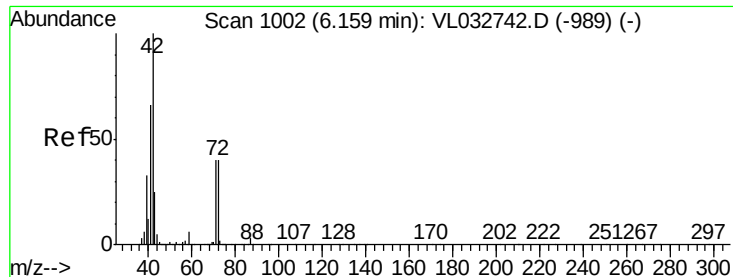
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



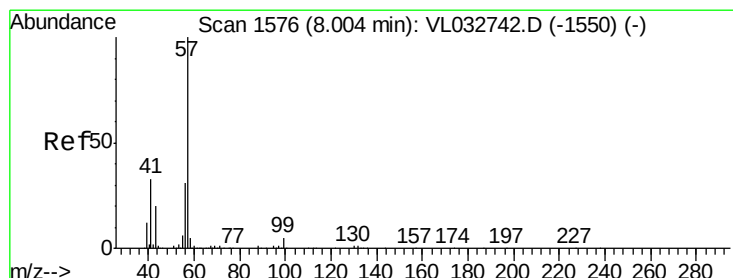
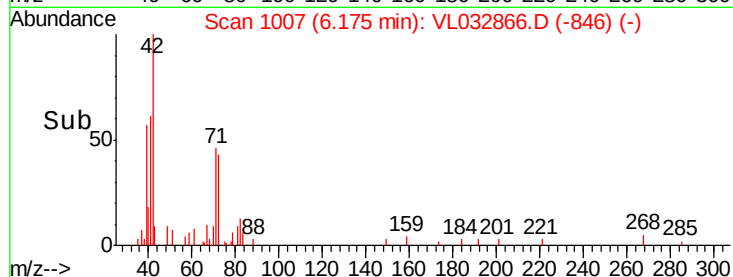
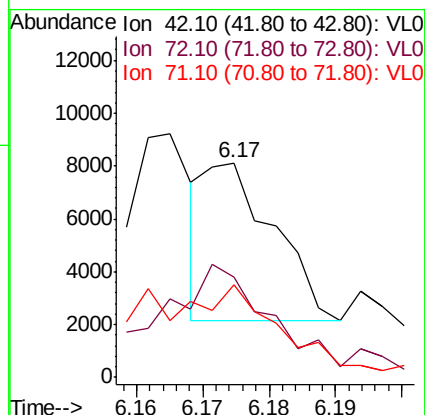
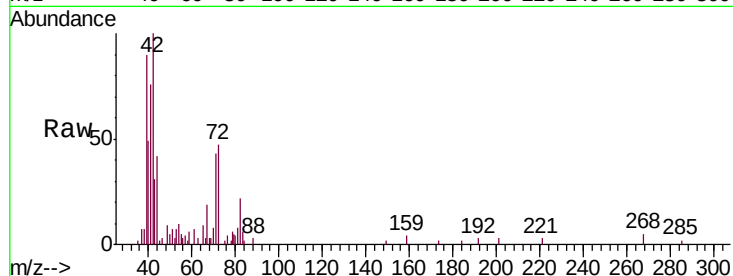




#41  
Tetrahydrofuran  
Concen: 0.040 ppbv  
RT: 6.17 min Scan# 1007  
Delta R.T. 0.02 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

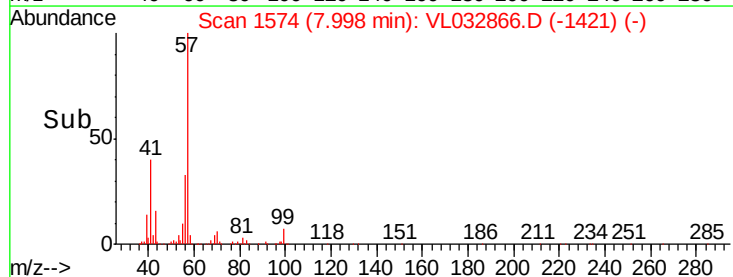
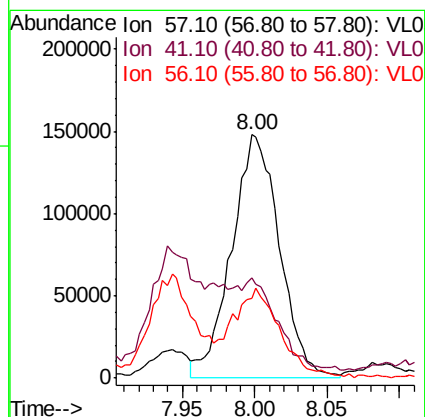
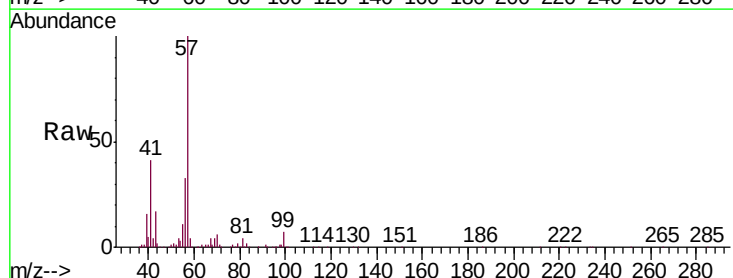
Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-05

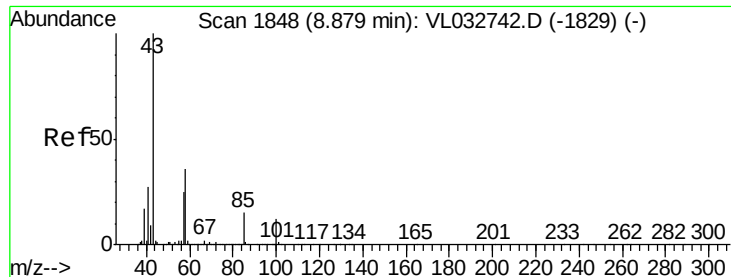
Tgt Ion: 42 Resp: 4275  
Ion Ratio Lower Upper  
42 100  
72 162.8 32.4 48.6#  
71 135.9 31.6 47.4#



#44  
2,2,4-Trimethylpentane  
Concen: 0.705 ppbv  
RT: 8.00 min Scan# 1574  
Delta R.T. -0.01 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

Tgt Ion: 57 Resp: 337872  
Ion Ratio Lower Upper  
57 100  
41 30.7 26.6 39.8  
56 35.3 24.8 37.2

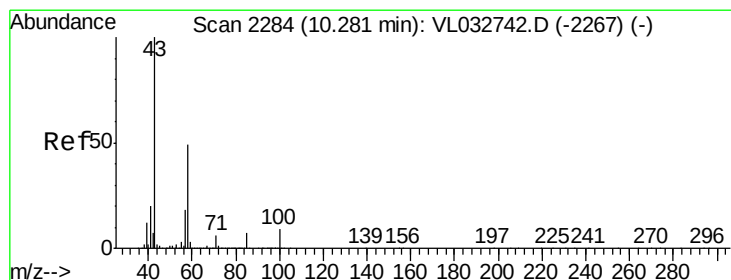
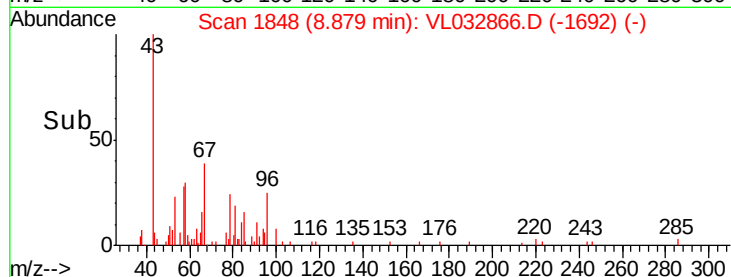
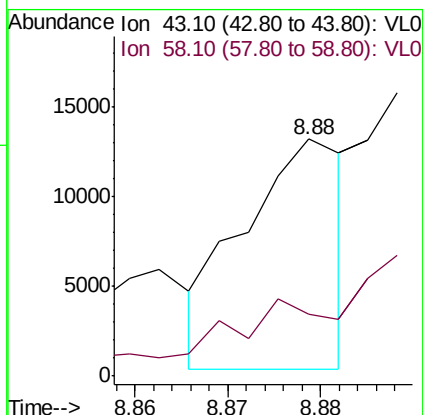
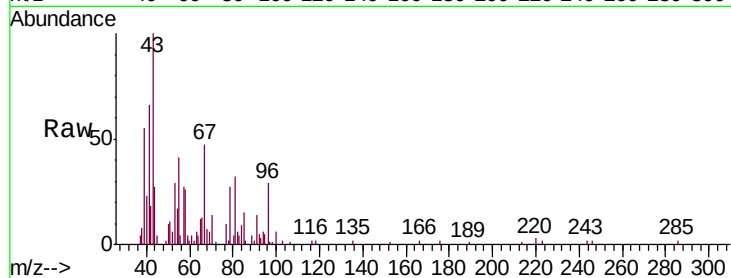




#50  
4-Methyl-2-Pentanone  
Concen: 0.033 ppbv  
RT: 8.88 min Scan# 1848  
Delta R.T. -0.00 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

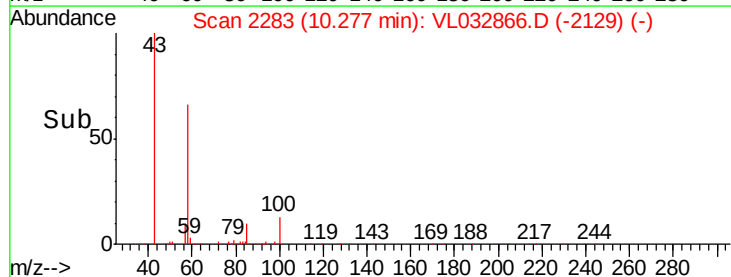
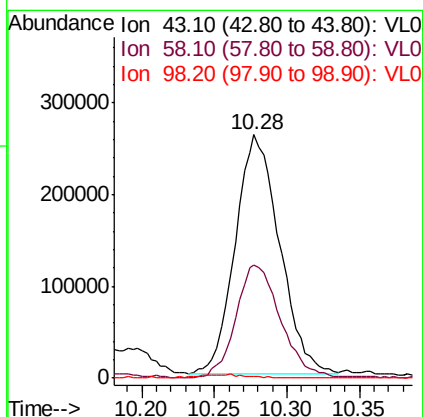
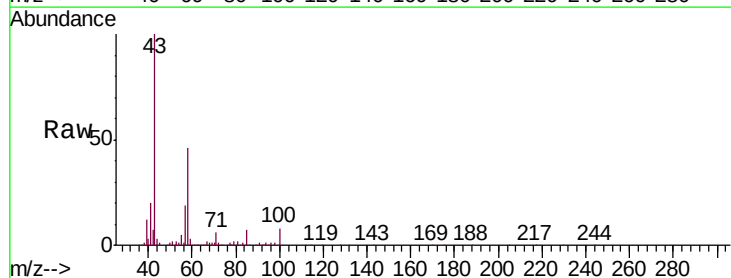
Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-05

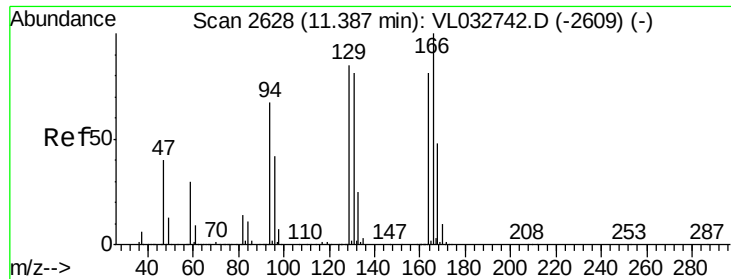
Tgt Ion: 43 Resp: 9748  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.8 43.2#



#51  
2-Hexanone  
Concen: 2.961 ppbv  
RT: 10.28 min Scan# 2283  
Delta R.T. -0.00 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

Tgt Ion: 43 Resp: 556880  
Ion Ratio Lower Upper  
43 100  
58 48.2 38.9 58.3  
98 2.2 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.074 ppbv

RT: 11.38 min Scan# 2627

Delta R.T. -0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

DSV-05

Tgt Ion:164 Resp: 7432

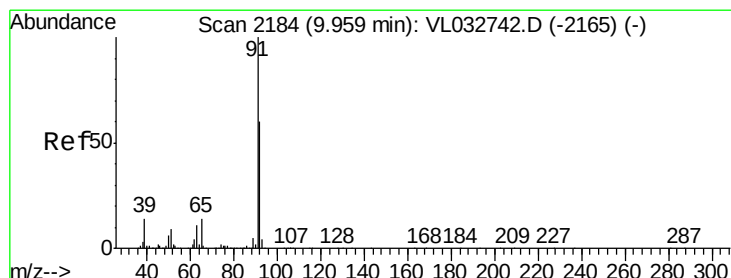
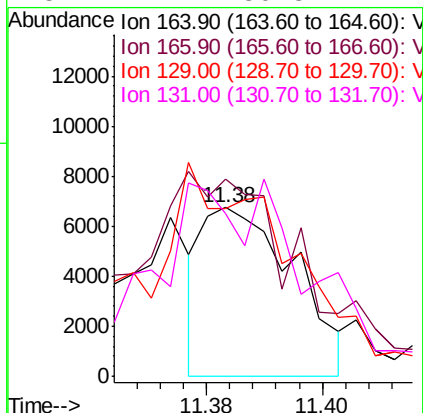
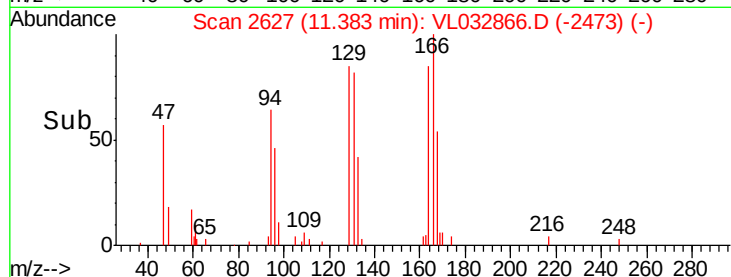
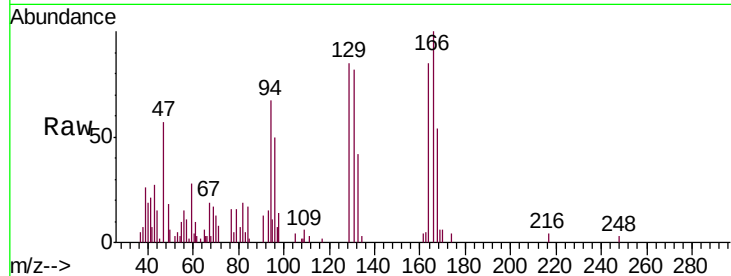
Ion Ratio Lower Upper

164 100

166 109.0 99.3 148.9

129 88.3 83.9 125.9

131 47.7 80.8 121.2#



#53

Toluene

Concen: 2.585 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032866.D

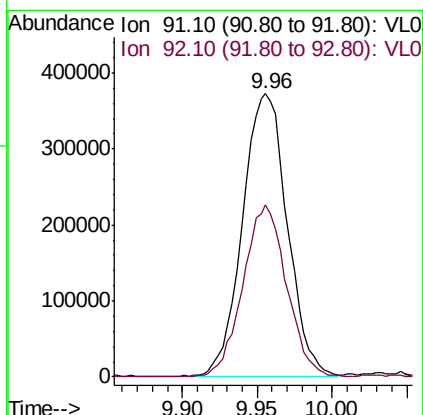
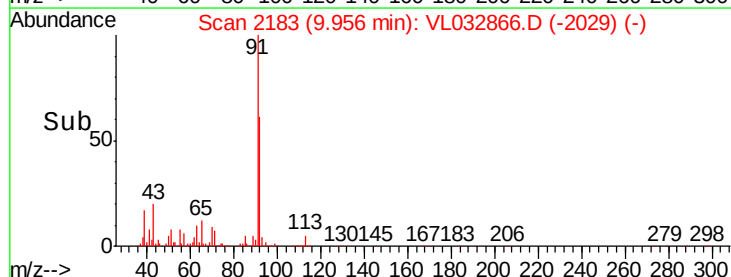
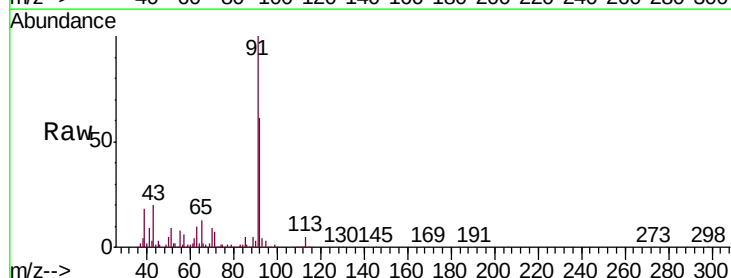
Acq: 1 Dec 2018 2:12

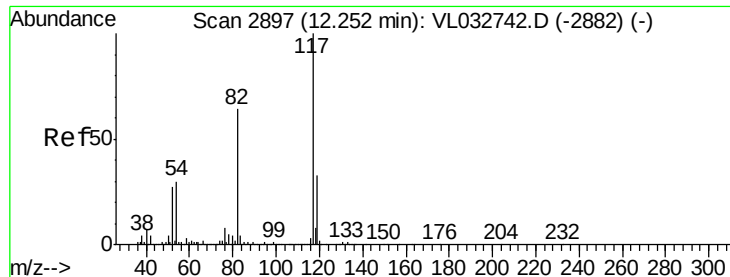
Tgt Ion: 91 Resp: 773877

Ion Ratio Lower Upper

91 100

92 59.3 47.9 71.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. -0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

DSV-05

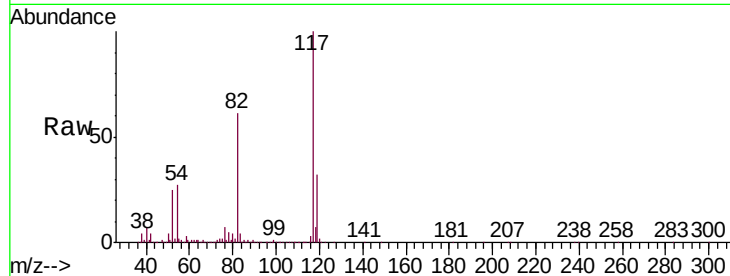
Tgt Ion:117 Resp: 3513236

Ion Ratio Lower Upper

117 100

82 61.5 51.0 76.6

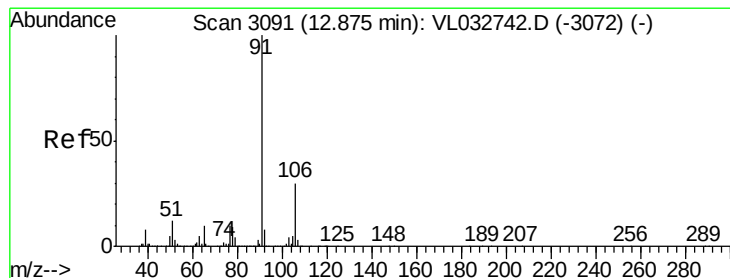
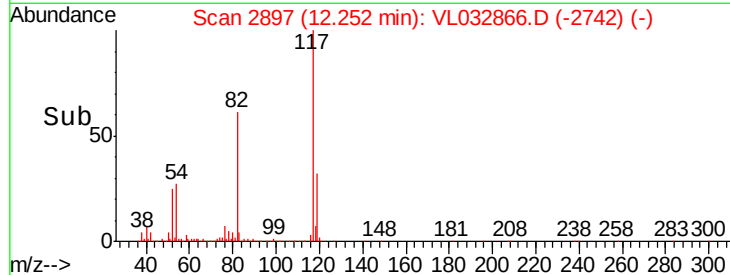
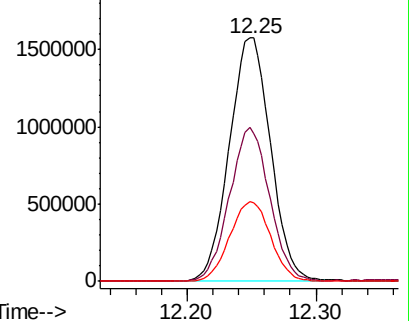
119 32.6 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.489 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032866.D

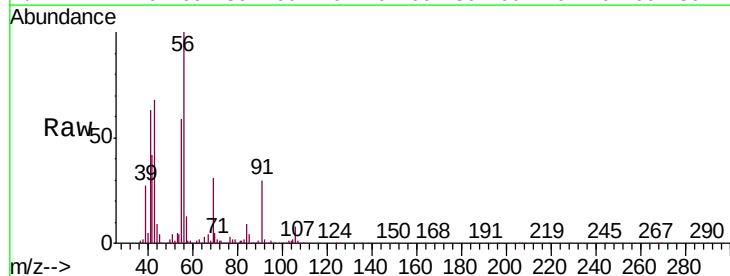
Acq: 1 Dec 2018 2:12

Tgt Ion: 91 Resp: 206776

Ion Ratio Lower Upper

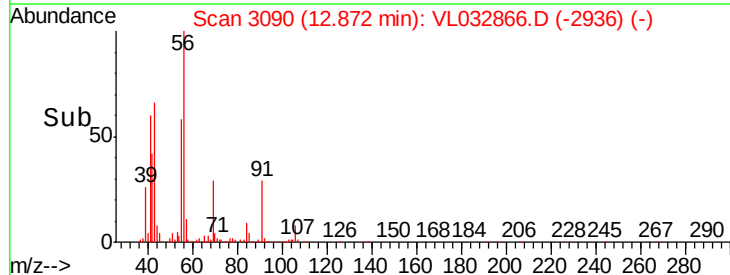
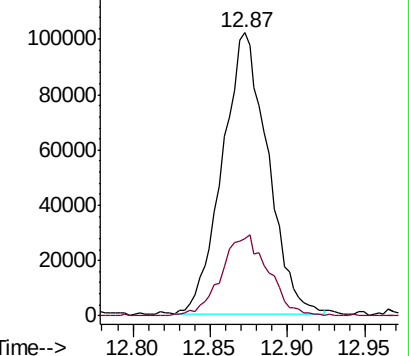
91 100

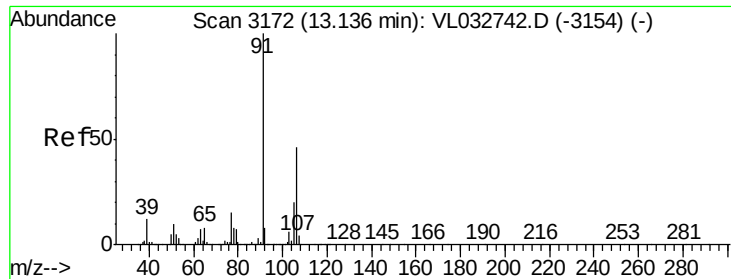
106 27.7 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

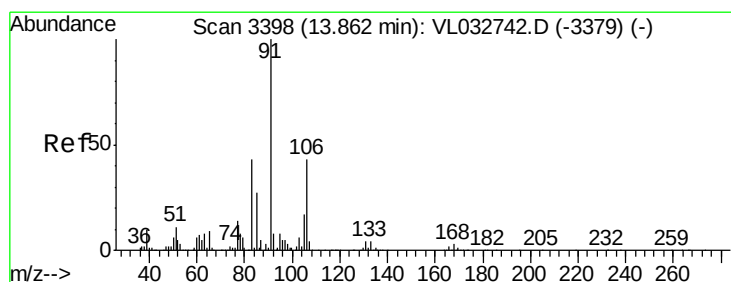
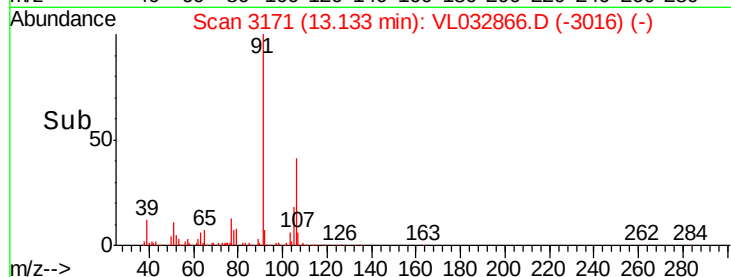
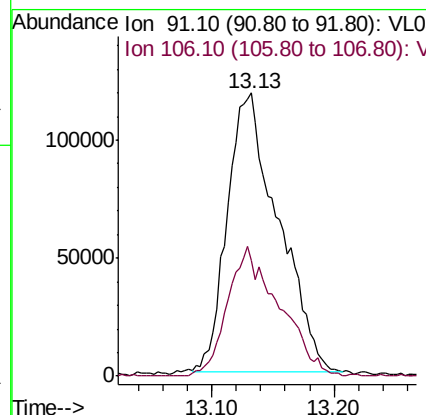
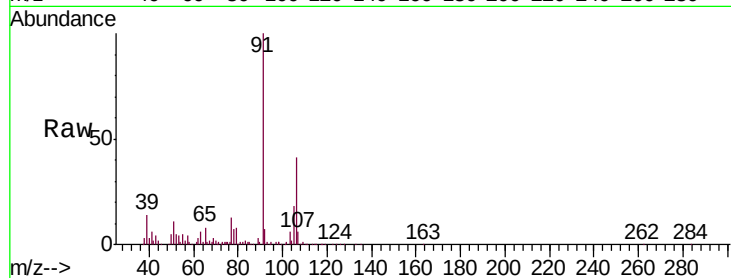




#59  
m/p-Xylene  
Concen: 0.916 ppbv  
RT: 13.13 min Scan# 3171  
Delta R.T. -0.00 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

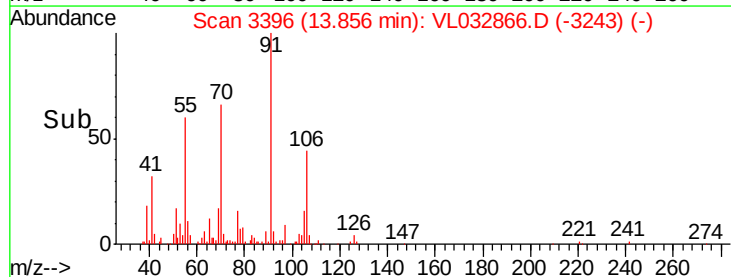
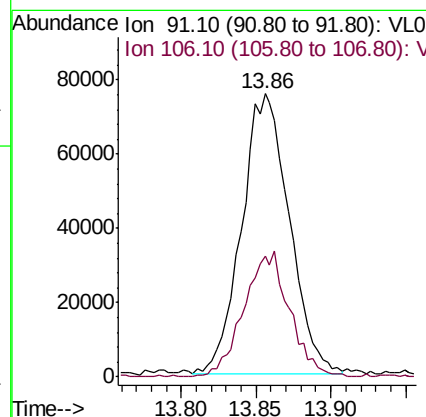
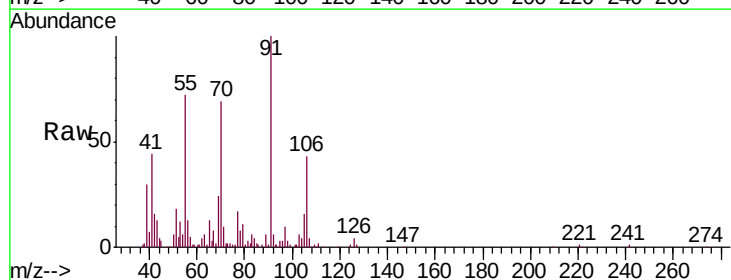
Instrument :  
MSVOA\_L  
ClientSampleId :  
DSV-05

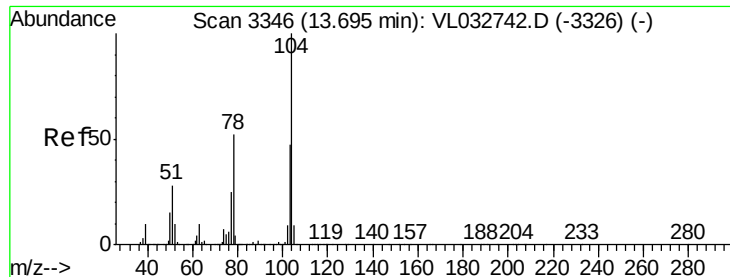
Tgt Ion: 91 Resp: 344920  
Ion Ratio Lower Upper  
91 100  
106 47.3 36.1 54.1



#60  
o-Xylene  
Concen: 0.443 ppbv  
RT: 13.86 min Scan# 3396  
Delta R.T. -0.01 min  
Lab File: VL032866.D  
Acq: 1 Dec 2018 2:12

Tgt Ion: 91 Resp: 167655  
Ion Ratio Lower Upper  
91 100  
106 42.8 21.9 65.7





#61

Styrene

Concen: 0.358 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

Instrument :

MSVOA\_L

ClientSampleId :

DSV-05

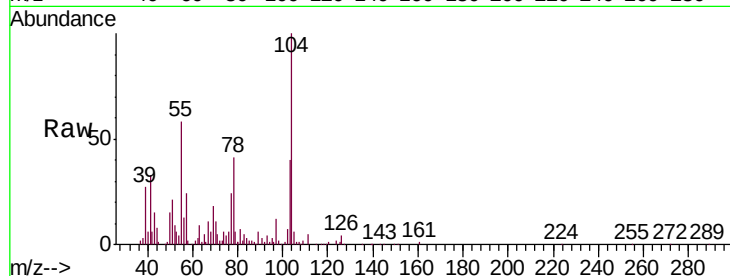
Tgt Ion:104 Resp: 88226

Ion Ratio Lower Upper

104 100

78 56.4 42.2 63.4

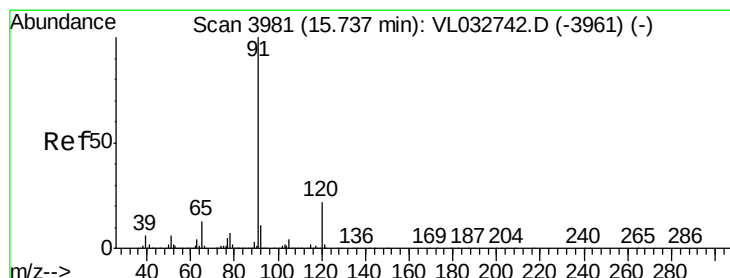
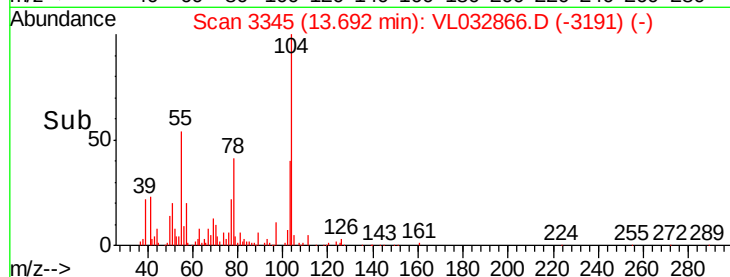
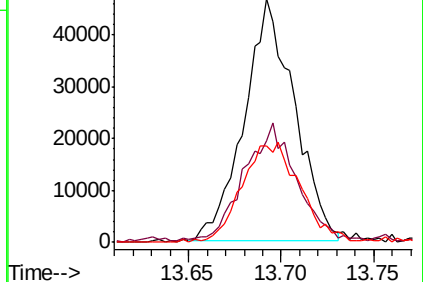
103 47.9 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#64

n-propylbenzene

Concen: 0.034 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. -0.01 min

Lab File: VL032866.D

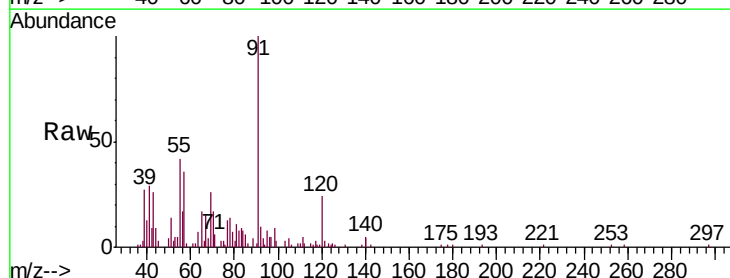
Acq: 1 Dec 2018 2:12

Tgt Ion:120 Resp: 4633

Ion Ratio Lower Upper

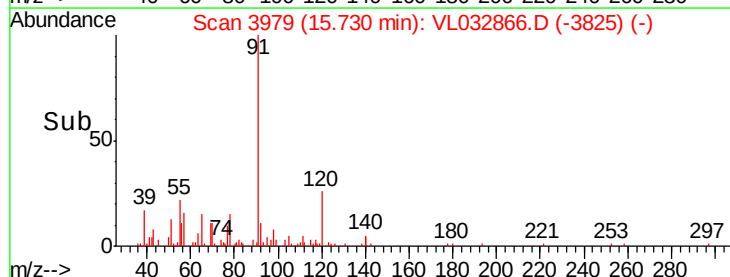
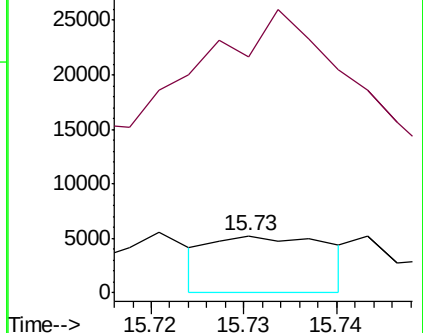
120 100

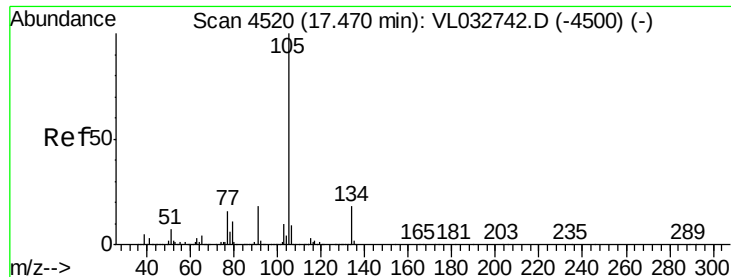
91 1173.2 381.7 572.5#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

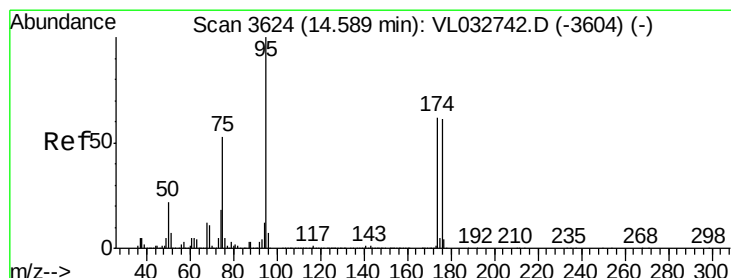
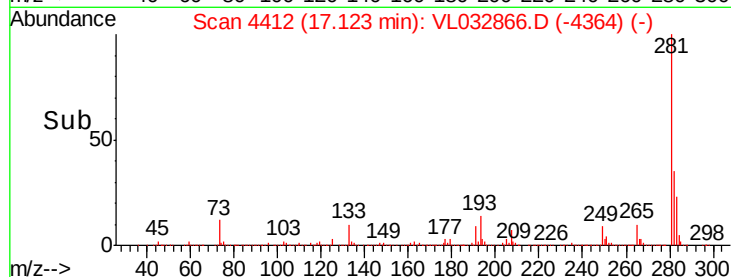
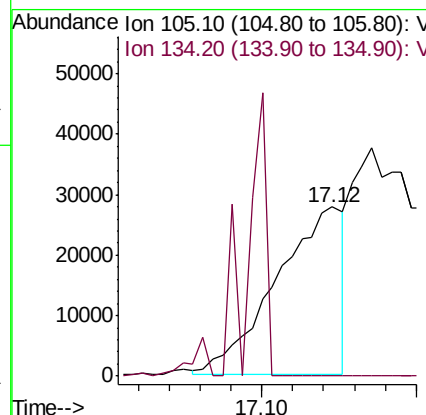
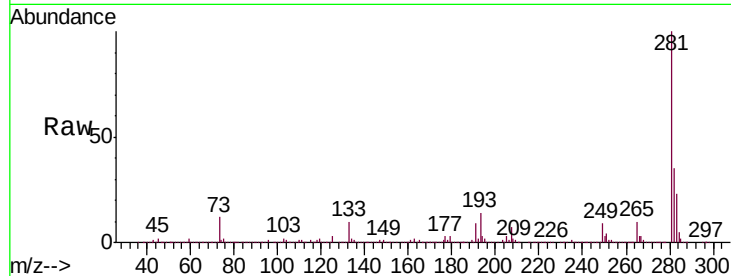




#67  
 sec-Butylbenzene  
 Concen: 0.063 ppbv  
 RT: 17.12 min Scan# 4412  
 Delta R.T. -0.35 min  
 Lab File: VL032866.D  
 Acq: 1 Dec 2018 2:12

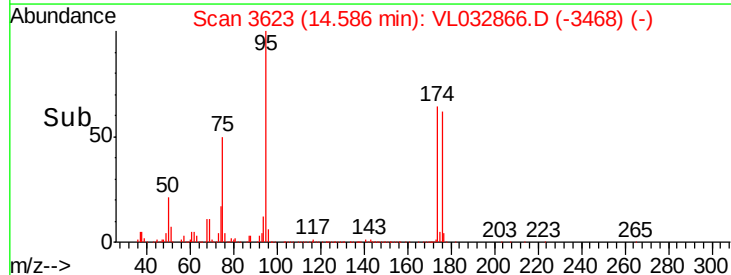
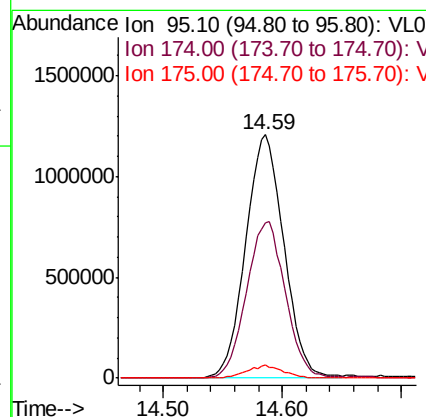
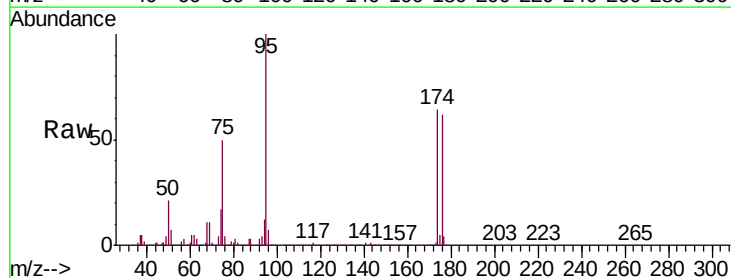
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-05

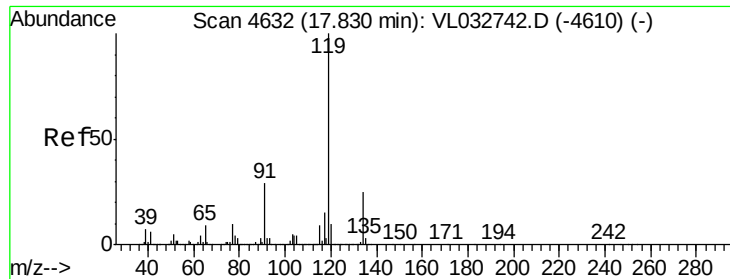
Tgt Ion: 105 Resp: 41579  
 Ion Ratio Lower Upper  
 105 100  
 134 19.0 14.6 21.8



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.223 ppbv  
 RT: 14.59 min Scan# 3623  
 Delta R.T. -0.00 min  
 Lab File: VL032866.D  
 Acq: 1 Dec 2018 2:12

Tgt Ion: 95 Resp: 2686408  
 Ion Ratio Lower Upper  
 95 100  
 174 66.3 50.7 76.1  
 175 5.0 3.8 5.6

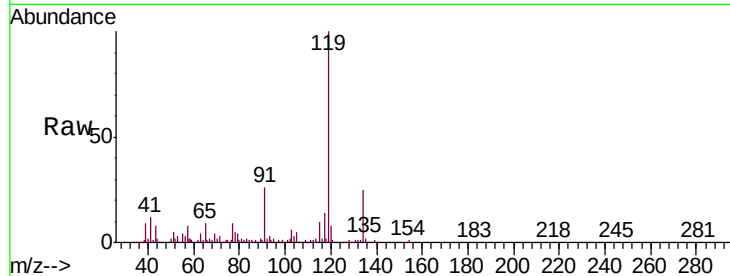




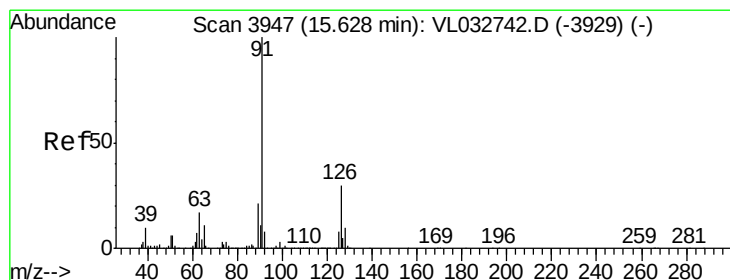
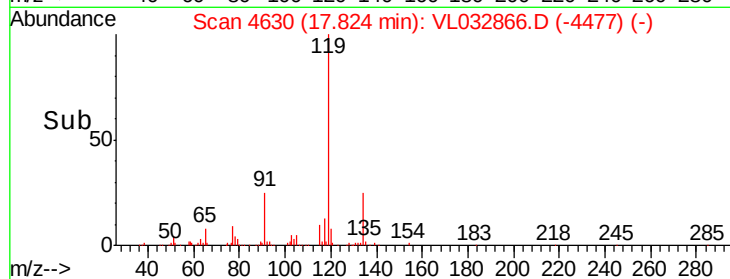
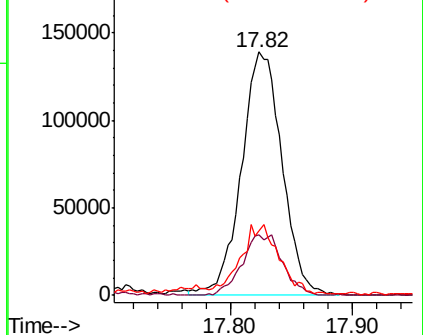
#69  
 p-Isopropyltoluene  
 Concen: 0.602 ppbv  
 RT: 17.82 min Scan# 4630  
 Delta R.T. -0.01 min  
 Lab File: VL032866.D  
 Acq: 1 Dec 2018 2:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.3  | 20.2  | 30.4  |
| 91      | 29.6  | 23.5  | 35.3  |

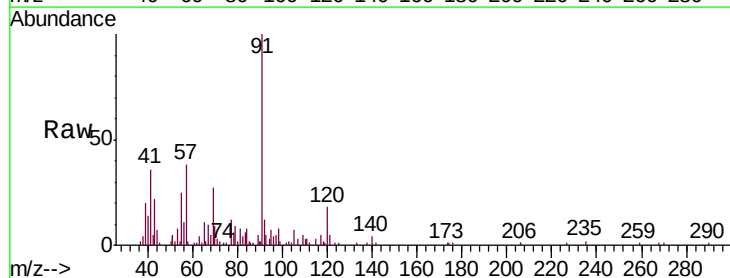


Abundance Ion 119.10 (118.80 to 119.80): V  
 Ion 134.20 (133.90 to 134.90): V  
 Ion 91.10 (90.80 to 91.80): V

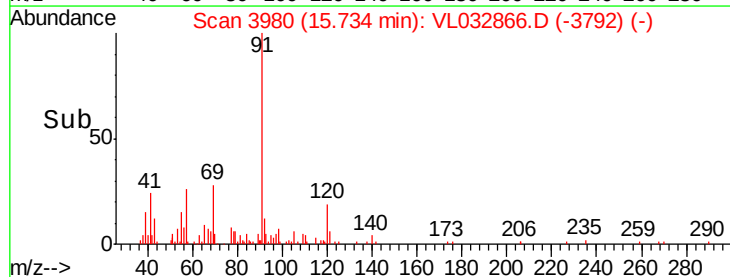
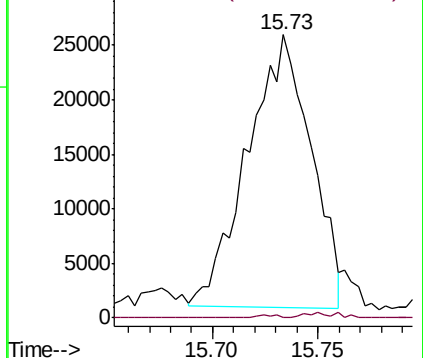


#71  
 2-Chlorotoluene  
 Concen: 0.137 ppbv  
 RT: 15.73 min Scan# 3980  
 Delta R.T. 0.11 min  
 Lab File: VL032866.D  
 Acq: 1 Dec 2018 2:12

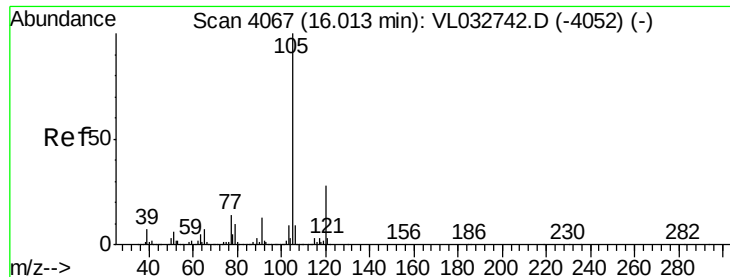
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 126     | 1.3   | 12.1  | 48.5# |



Abundance Ion 91.10 (90.80 to 91.80): V  
 Ion 126.10 (125.80 to 126.80): V







#72

4-Ethyltoluene

Concen: 0.090 ppbv

RT: 16.01 min Scan# 4065

Delta R.T. -0.01 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

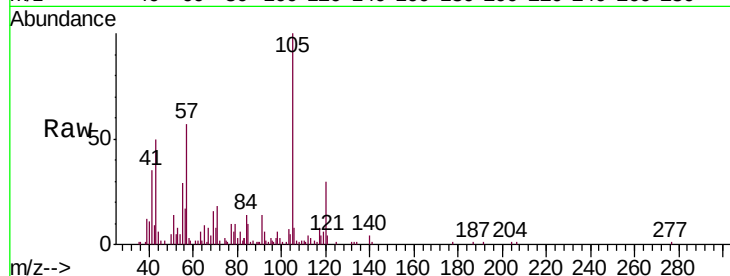
Instrument :

MSVOA\_L

ClientSampleId :

DSV-05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 37349 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 44.6  | 22.9  | 34.3# |
| 91       | 28.7  | 10.6  | 15.8# |
| 77       | 0.0   | 11.4  | 17.2# |



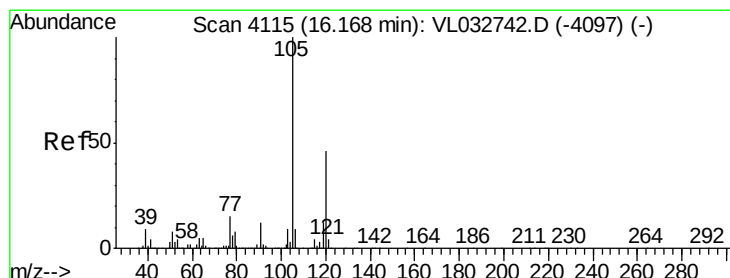
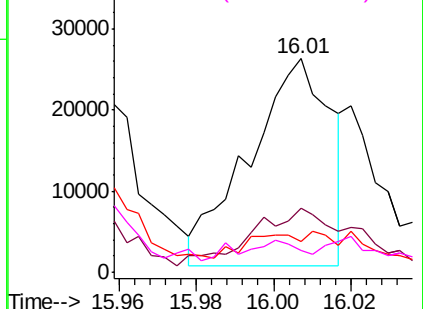
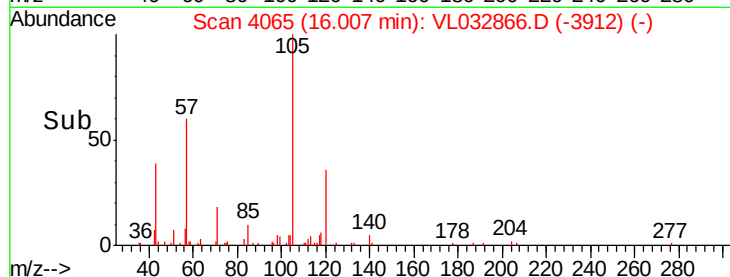
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.169 ppbv

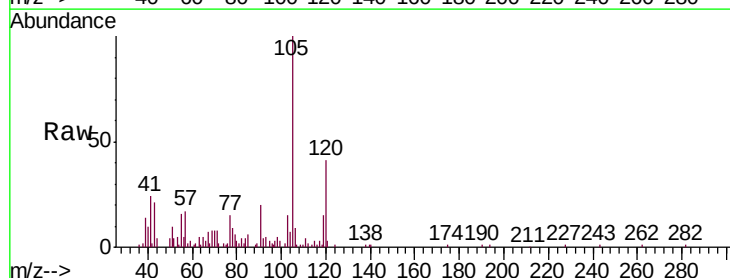
RT: 16.17 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VL032866.D

Acq: 1 Dec 2018 2:12

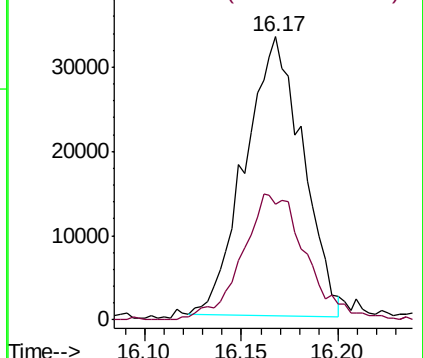
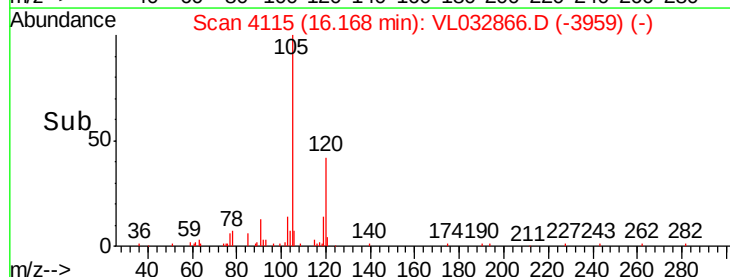
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 68735 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 44.1  | 36.6  | 55.0  |

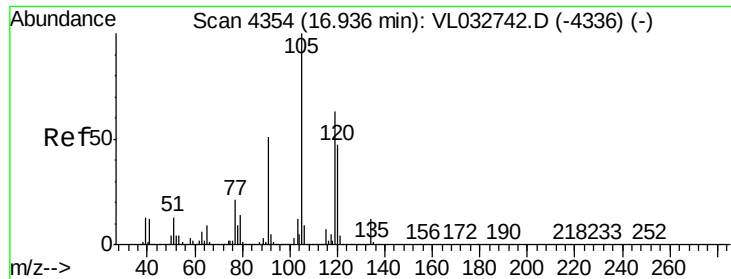


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

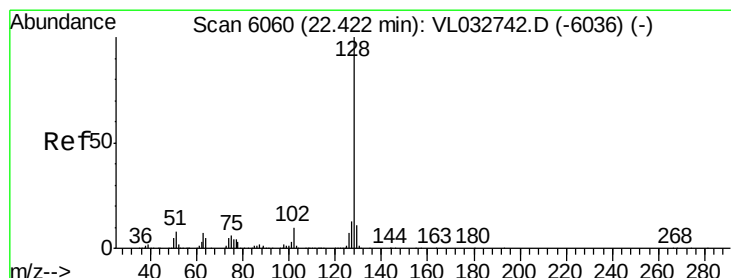
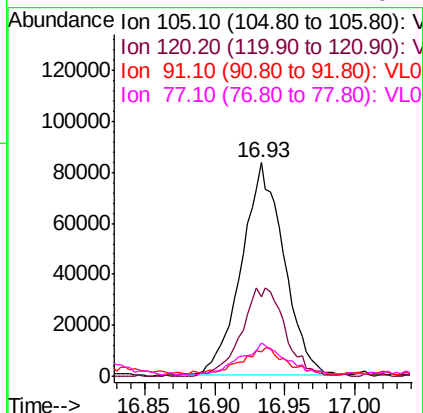
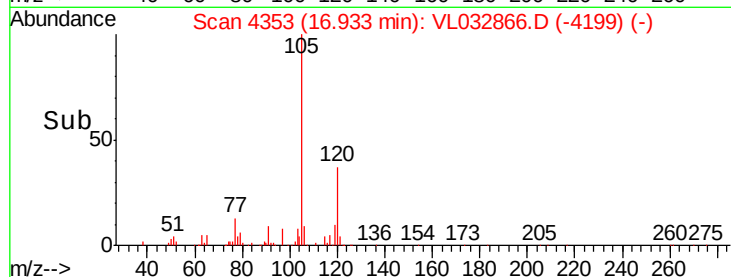
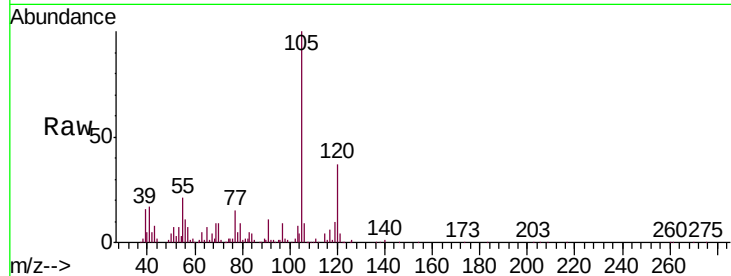




#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.400 ppbv  
 RT: 16.93 min Scan# 4353  
 Delta R.T. -0.00 min  
 Lab File: VL032866.D  
 Acq: 1 Dec 2018 2:12

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 DSV-05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 105   | Resp: | 173720 |
| Ion      | Ratio | Lower | Upper  |
| 105      | 100   |       |        |
| 120      | 37.6  | 37.6  | 56.4#  |
| 91       | 10.5  | 42.5  | 63.7#  |
| 77       | 14.4  | 17.4  | 26.2#  |



#79  
 Naphthalene  
 Concen: 0.058 ppbv  
 RT: 22.44 min Scan# 6066  
 Delta R.T. 0.02 min  
 Lab File: VL032866.D  
 Acq: 1 Dec 2018 2:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 16469 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.6  | 10.1  | 15.1  |
| 129      | 9.3   | 8.9   | 13.3  |

