

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020519\  
 Data File : VX007367.D  
 Acq On : 05 Feb 2019 10:58  
 Operator : JC/SP  
 Sample : VX0205MBL01  
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0205MBL01

Quant Time: Feb 06 00:14:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

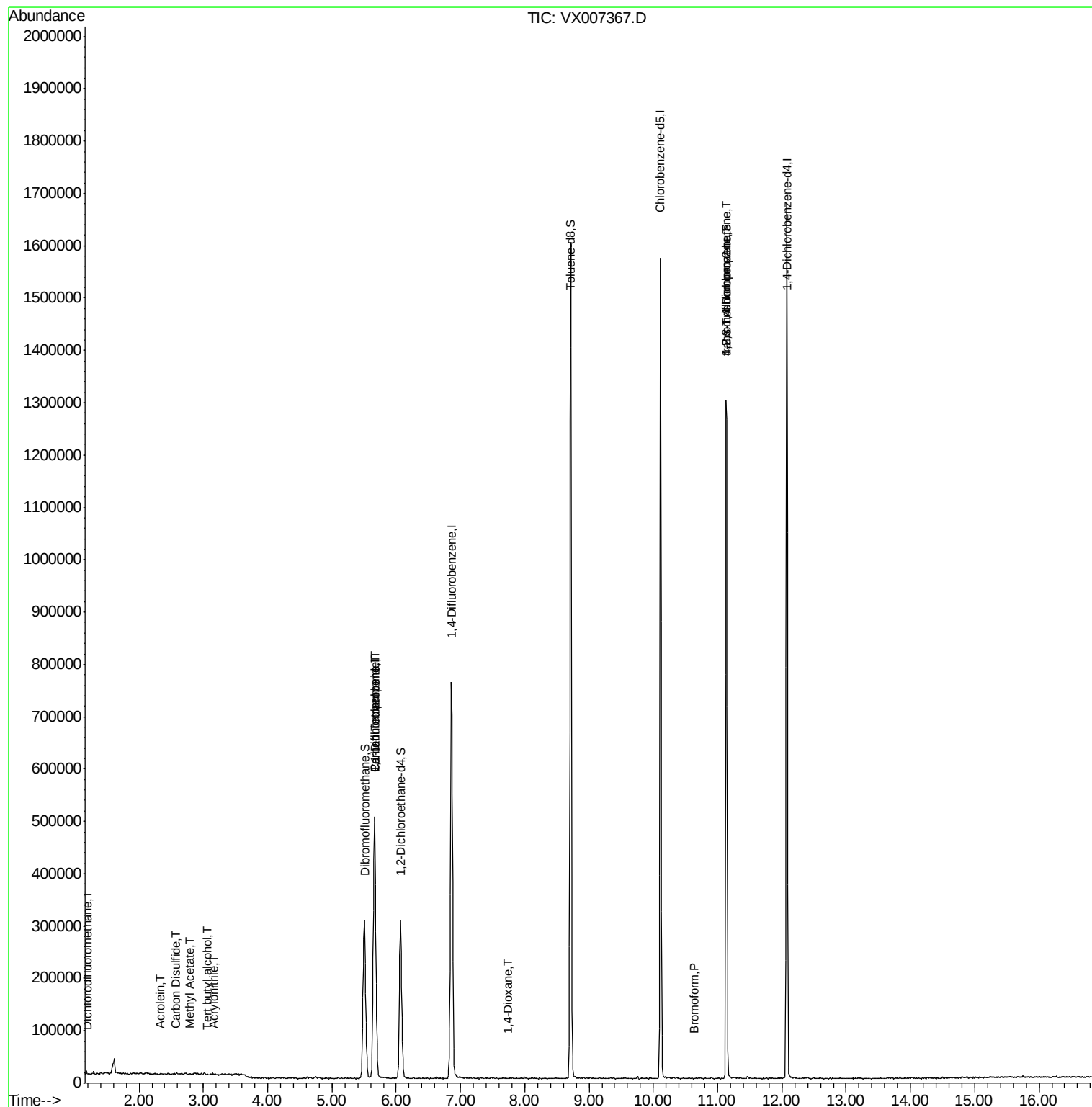
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 5.67  | 168  | 508276   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.86  | 114  | 792750   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 10.12 | 117  | 748953   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.08 | 152  | 366358   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.07  | 65   | 283613   | 52.57     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 105.14% |          |
| 35) Dibromofluoromethane       | 5.51  | 113  | 255448   | 49.52     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 99.04%  |          |
| 50) Toluene-d8                 | 8.71  | 98   | 956747   | 49.99     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 99.98%  |          |
| 62) 4-Bromofluorobenzene       | 11.13 | 95   | 340439   | 48.72     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 97.44%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.20  | 85   | 261      | 0.219     | ug/l #  | 11       |
| 5) Bromomethane                | 1.66  | 94   | 651      | Below Cal | #       | 64       |
| 11) Tert butyl alcohol         | 3.06  | 59   | 277      | 0.248     | ug/l #  | 1        |
| 13) Acrolein                   | 2.32  | 56   | 183      | 0.350     | ug/l #  | 1        |
| 15) Acrylonitrile              | 3.17  | 53   | 888      | 0.322     | ug/l #  | 35       |
| 17) Carbon Disulfide           | 2.57  | 76   | 2008     | 2.273     | ug/l #  | 91       |
| 18) Methyl Acetate             | 2.78  | 43   | 1584     | 0.836     | ug/l #  | 88       |
| 20) Methylene Chloride         | 2.85  | 84   | 1421     | Below Cal | #       | 70       |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 34115    | 4.796     | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 47528    | 6.888     | ug/l #  | 16       |
| 49) 1,4-Dioxane                | 7.74  | 88   | 125      | 7.862     | ug/l #  | 15       |
| 71) Bromoform                  | 10.63 | 173  | 188      | 4.065     | ug/l #  | 29       |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 163612   | 22.959    | ug/l #  | 32       |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 163612   | 69.193    | ug/l #  | 9        |

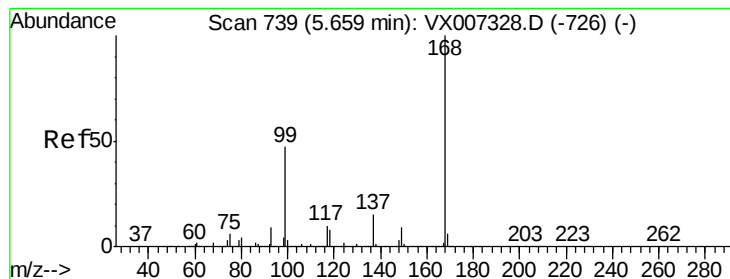
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
ClientSampled :  
VX0205MBL01

Quant Time: Feb 06 00:14:28 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Feb 02 01:32:36 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

MSVOA\_X

ClientSampleId :

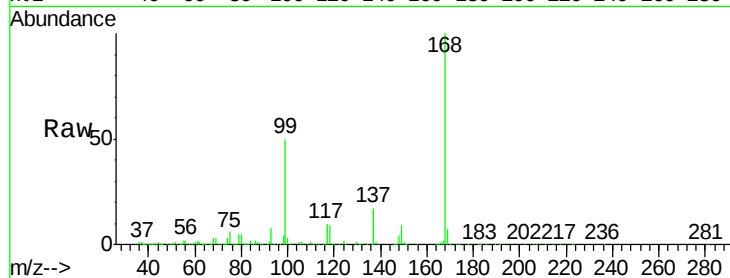
VX0205MBL01

Tot Ion:168 Resp: 508276

Ion Ratio Lower Upper

168 100

99 49.5 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

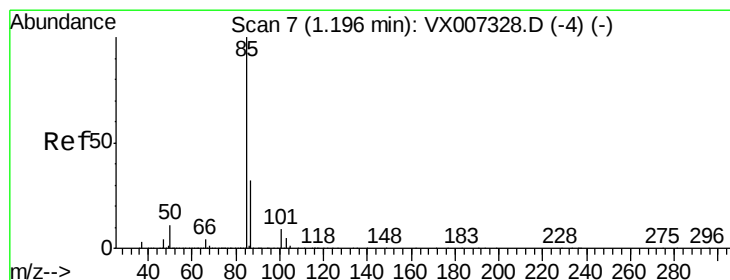
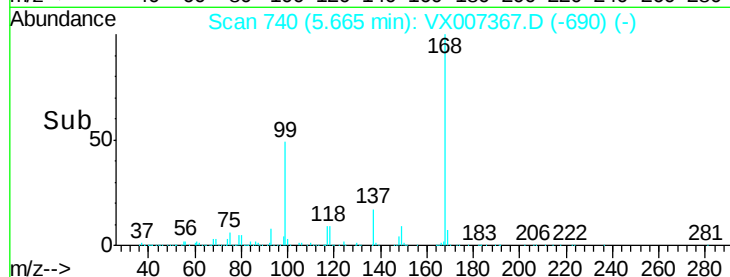
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.219 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX007367.D

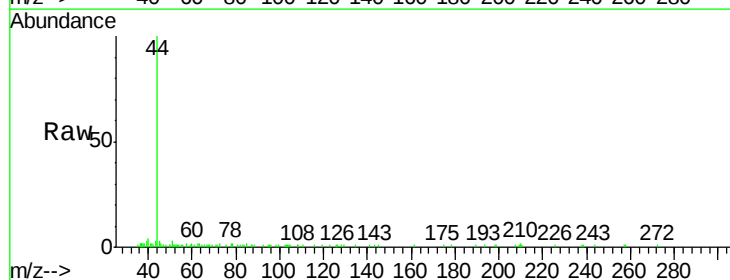
Acq: 05 Feb 2019 10:58

Tgt Ion: 85 Resp: 261

Ion Ratio Lower Upper

85 100

87 81.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

250

200

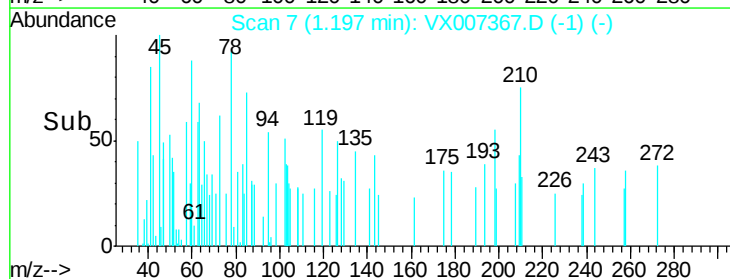
150

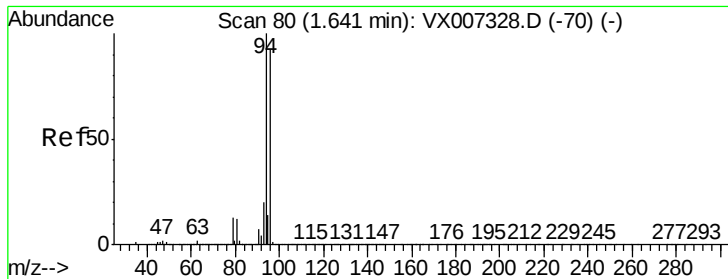
100

50

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

MSVOA\_X

ClientSampled :

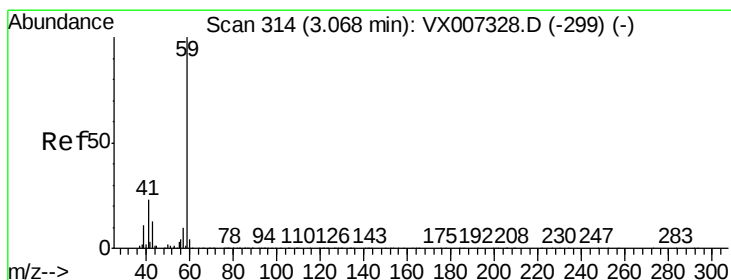
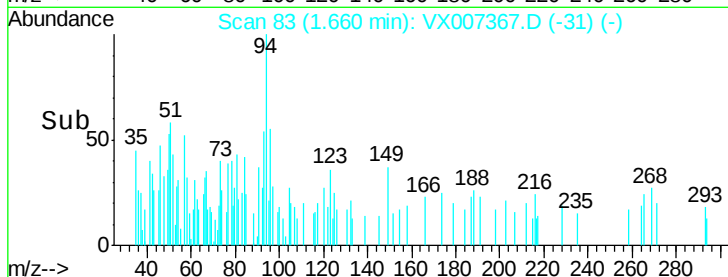
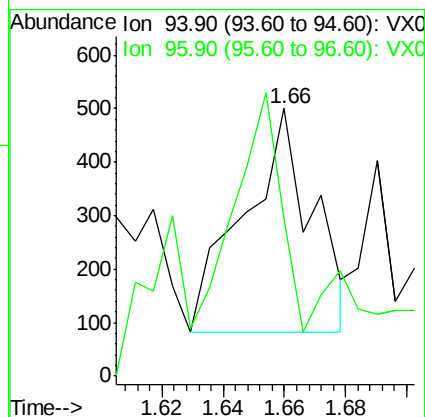
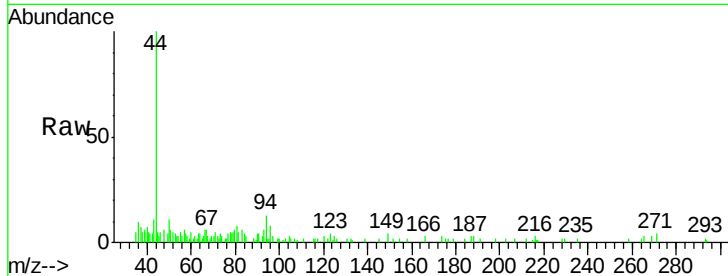
VX0205MBL01

Tot Ion: 94 Resp: 651

Ion Ratio Lower Upper

94 100

96 58.1 73.9 110.9#



#11

Tert butyl alcohol

Concen: 0.248 ug/l

RT: 3.06 min Scan# 313

Delta R.T. -0.01 min

Lab File: VX007367.D

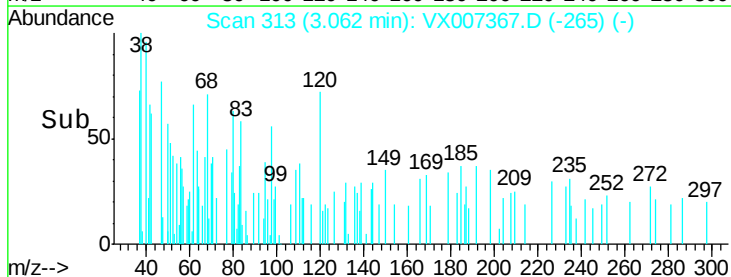
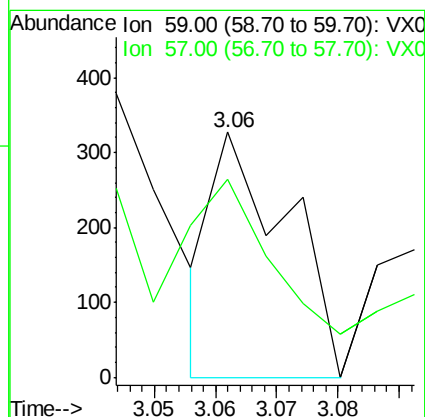
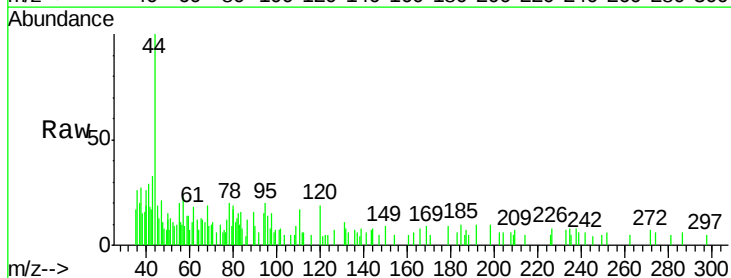
Acq: 05 Feb 2019 10:58

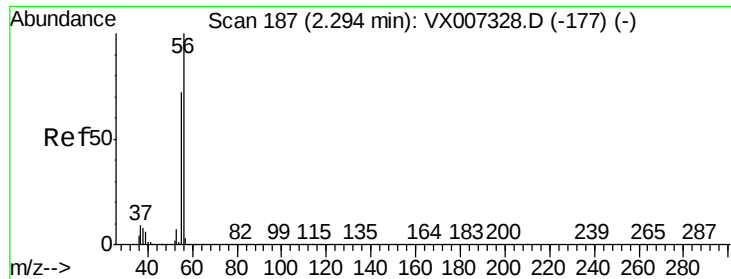
Tgt Ion: 59 Resp: 277

Ion Ratio Lower Upper

59 100

57 70.8 8.1 12.1#





#13

Acrolein

Concen: 0.350 ug/l

RT: 2.32 min Scan# 191

Delta R.T. 0.02 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

MSVOA\_X

ClientSampled :

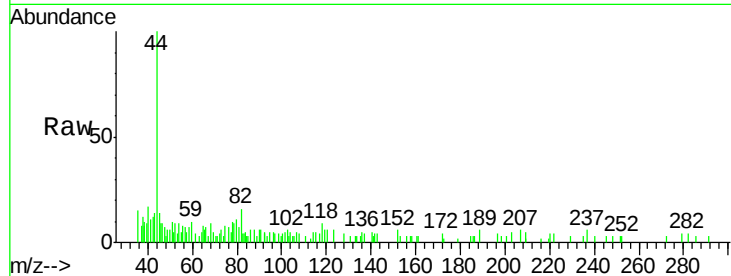
VX0205MBL01

Tot Ion: 56 Resp: 183

Ion Ratio Lower Upper

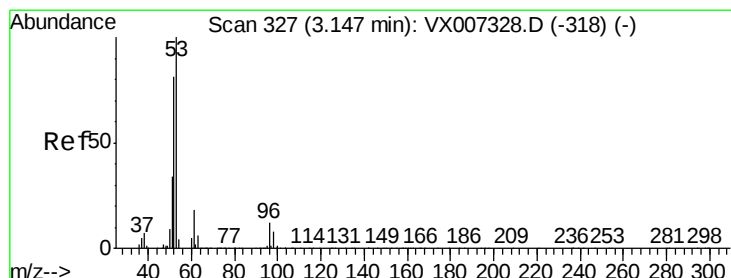
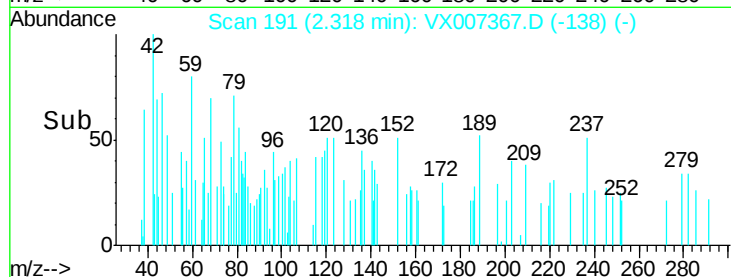
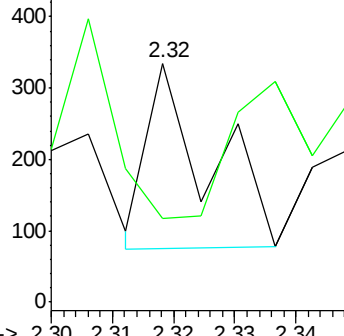
56 100

55 168.3 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.322 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.02 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

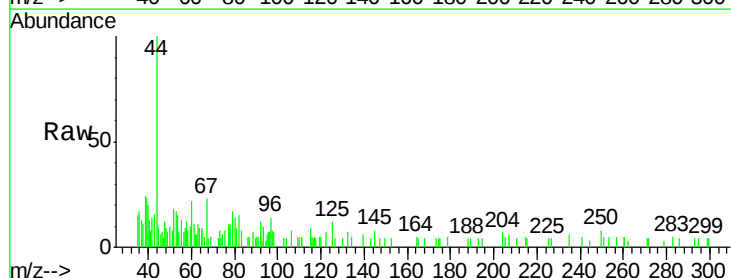
Tgt Ion: 53 Resp: 888

Ion Ratio Lower Upper

53 100

52 0.0 66.4 99.6#

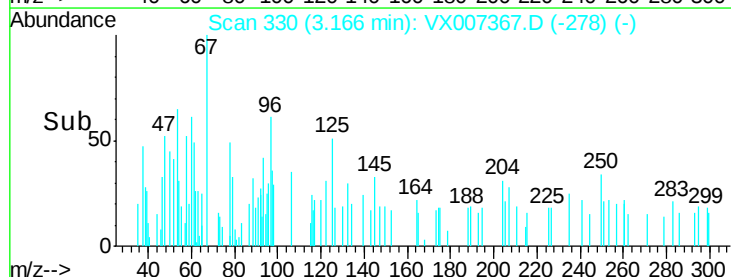
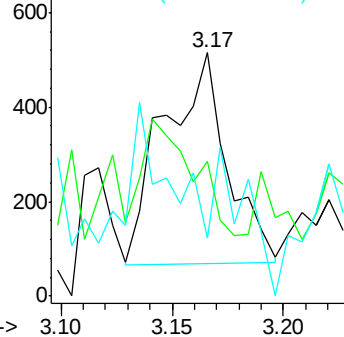
51 35.1 28.4 42.6

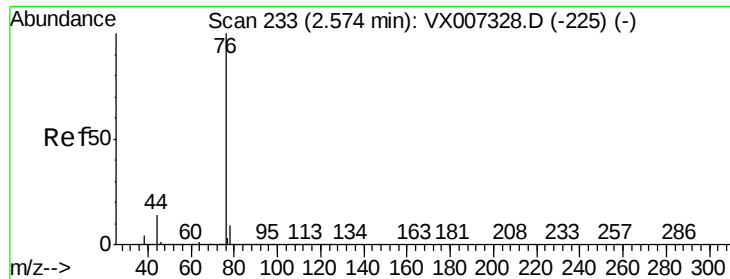


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#17

Carbon Disulfide

Concen: 2.273 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

MSVOA\_X

ClientSampleId :

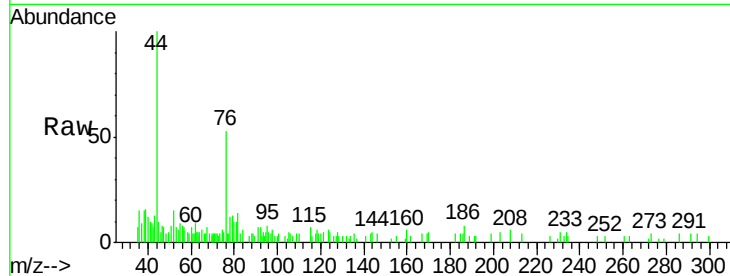
VX0205MBL01

Tot Ion: 76 Resp: 2008

Ion Ratio Lower Upper

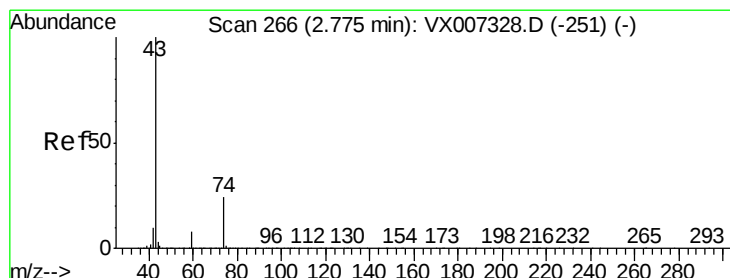
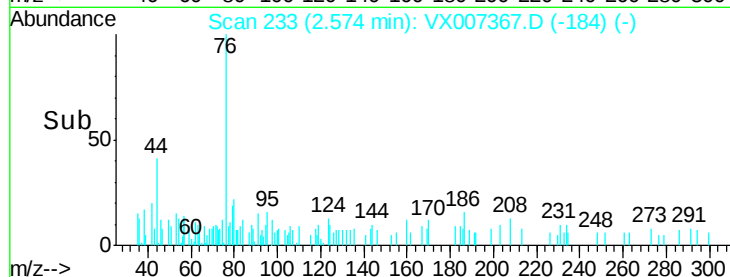
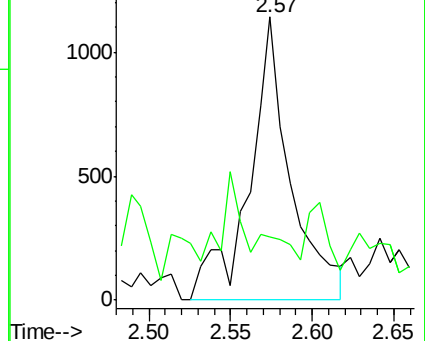
76 100

78 12.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.836 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX007367.D

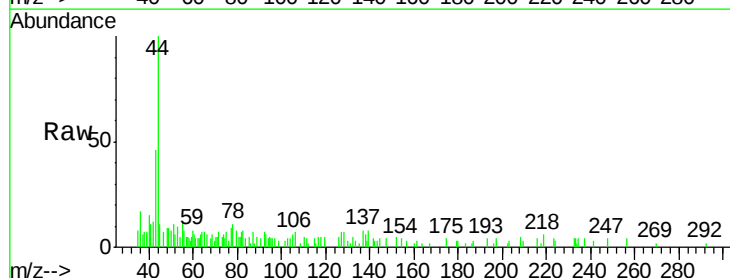
Acq: 05 Feb 2019 10:58

Tgt Ion: 43 Resp: 1584

Ion Ratio Lower Upper

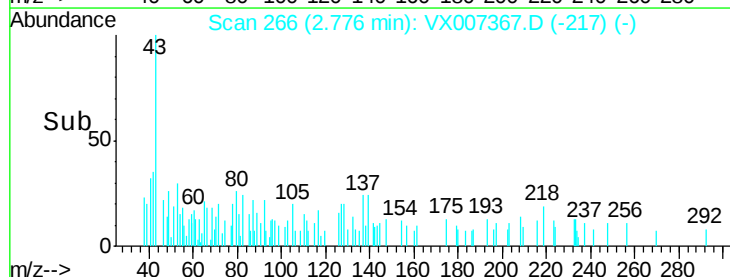
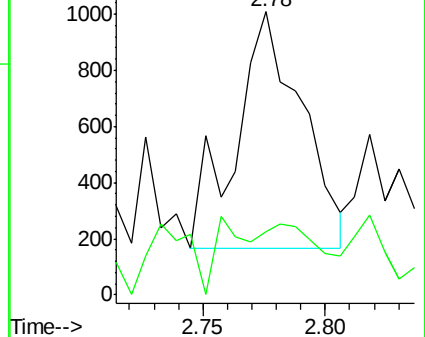
43 100

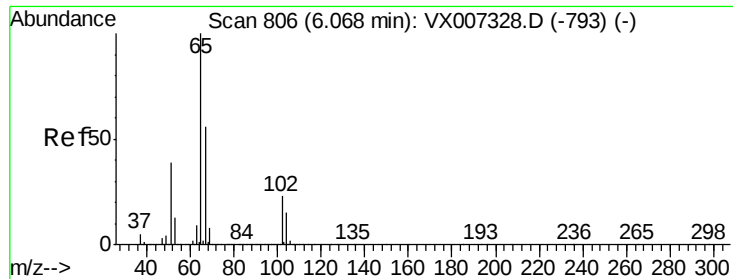
74 18.6 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.570 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

MSVOA\_X

ClientSampleId :

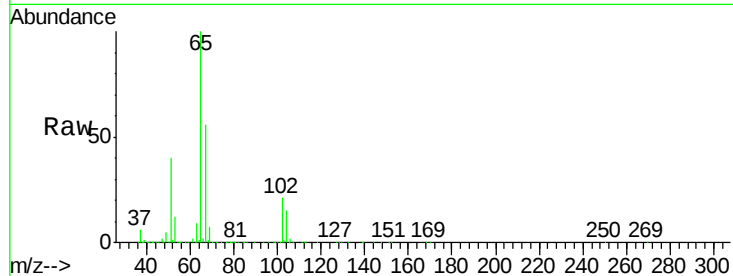
VX0205MBL01

Tot Ion: 65 Resp: 283613

Ion Ratio Lower Upper

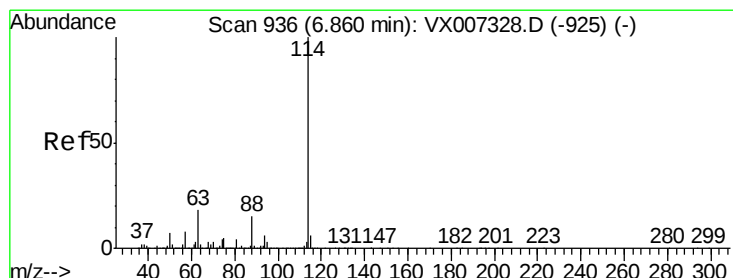
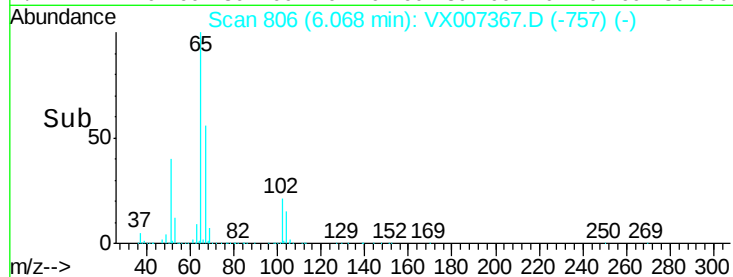
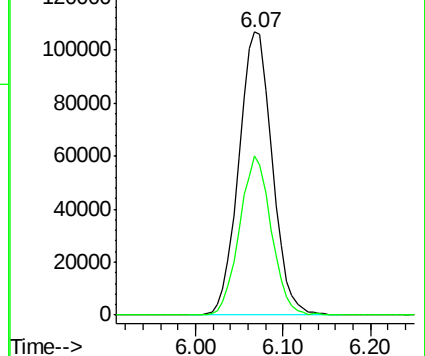
65 100

67 53.5 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

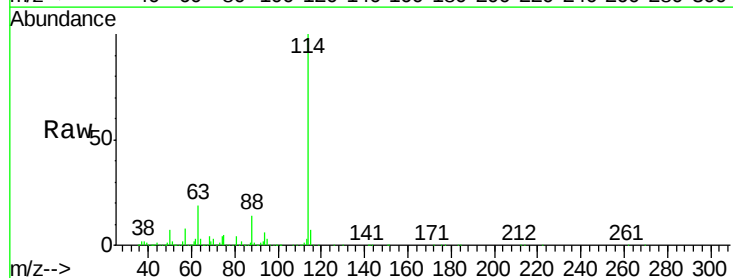
Tgt Ion: 114 Resp: 792750

Ion Ratio Lower Upper

114 100

63 19.1 0.0 35.6

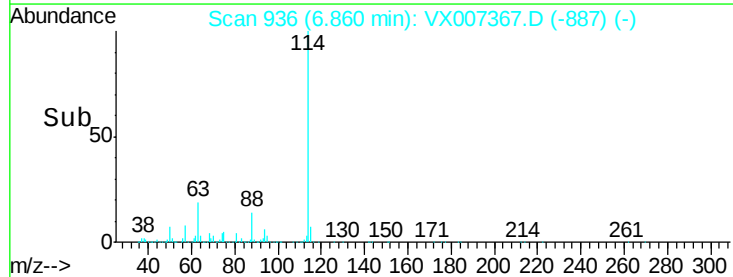
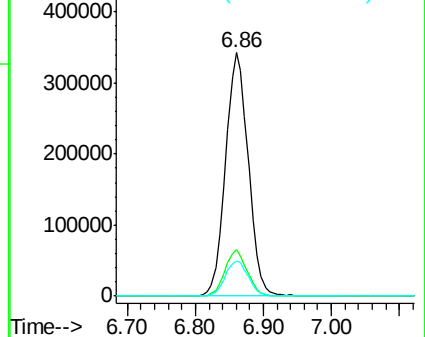
88 14.4 0.0 29.6

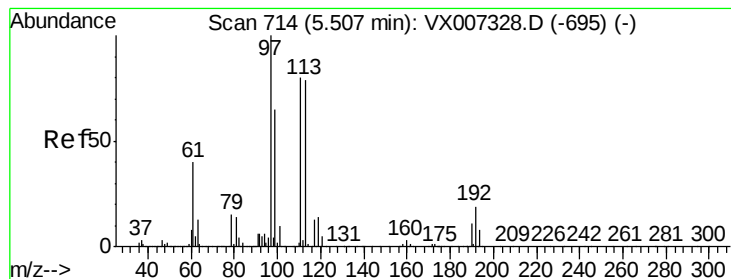


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.523 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

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ClientSampleId :

VX0205MBL01

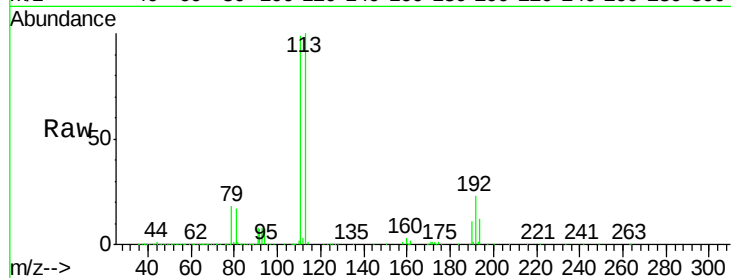
Tot Ion:113 Resp: 255448

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

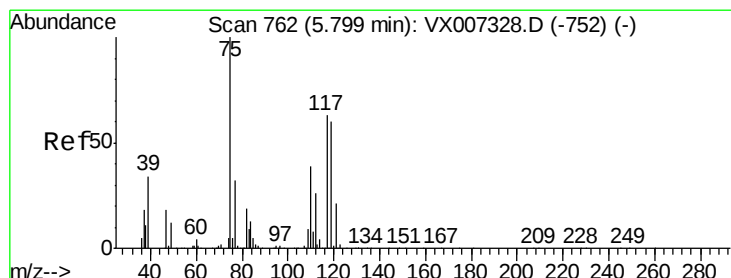
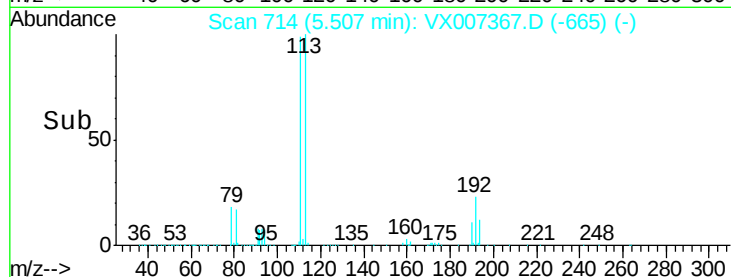
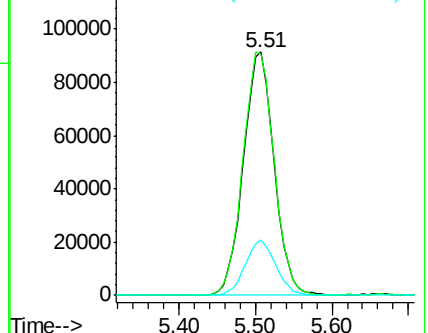
192 22.4 18.5 27.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.796 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

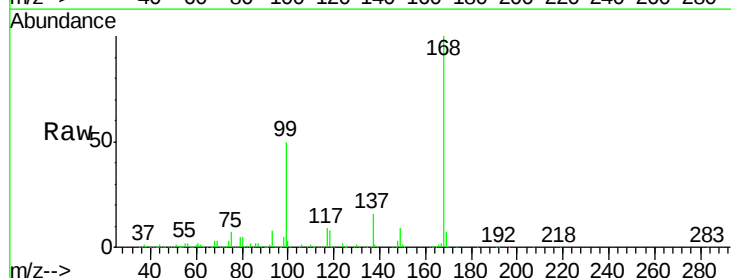
Tgt Ion: 75 Resp: 34115

Ion Ratio Lower Upper

75 100

110 10.6 20.0 59.9#

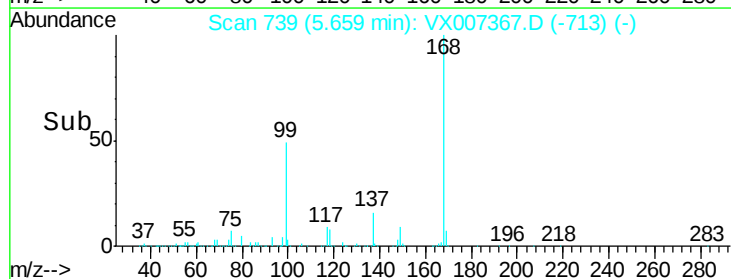
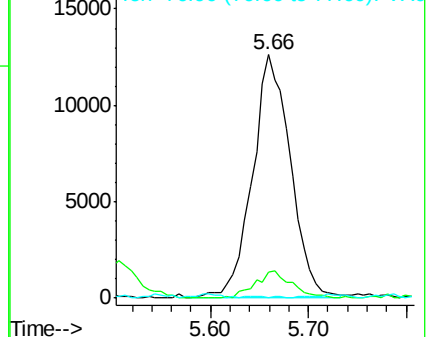
77 0.0 24.7 37.1#

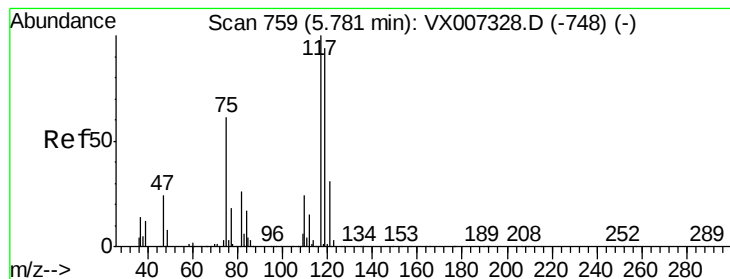


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.888 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

MSVOA\_X

ClientSampleId :

VX0205MBL01

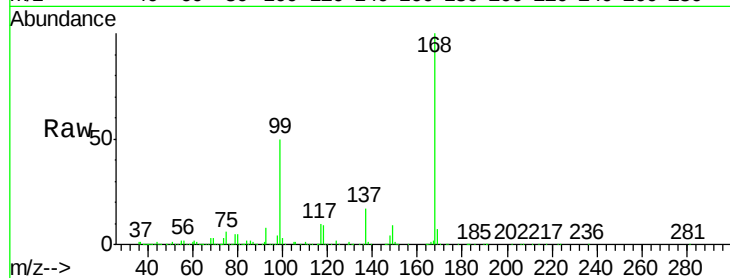
Tot Ion:117 Resp: 47528

Ion Ratio Lower Upper

117 100

119 3.9 75.3 112.9#

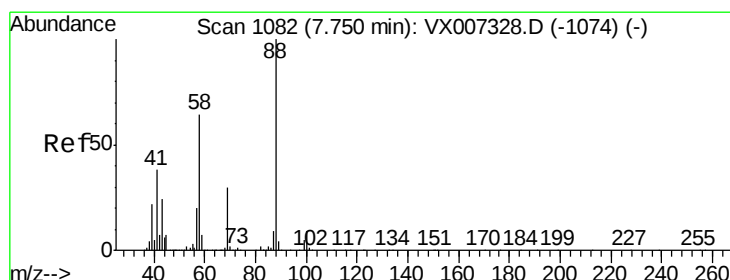
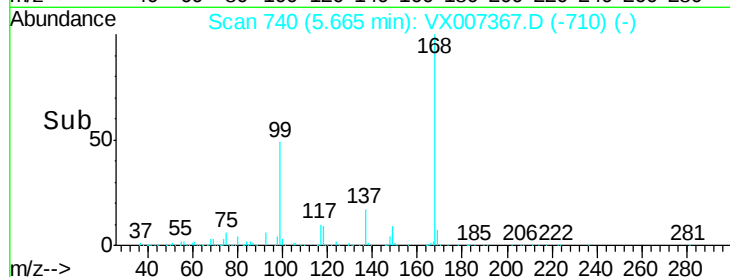
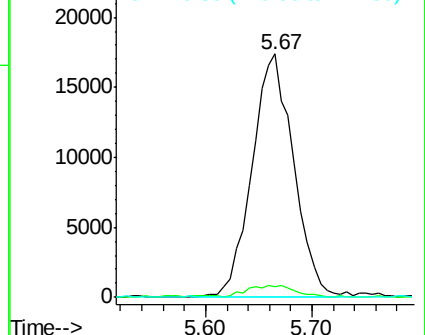
121 0.0 25.0 37.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 7.862 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

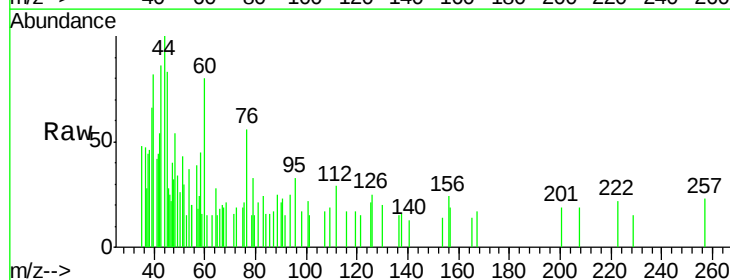
Tgt Ion: 88 Resp: 125

Ion Ratio Lower Upper

88 100

43 0.0 24.2 36.4#

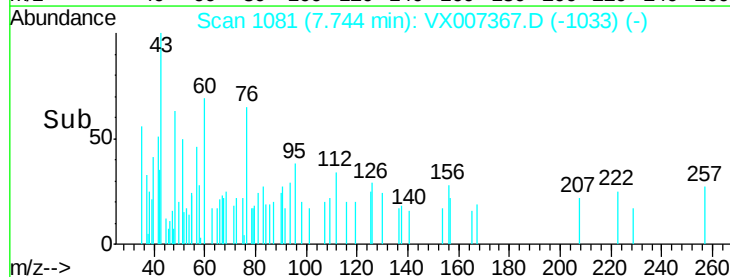
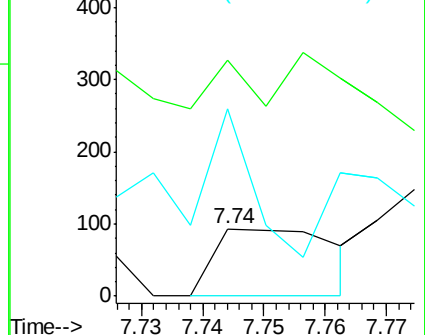
58 144.8 53.0 79.4#

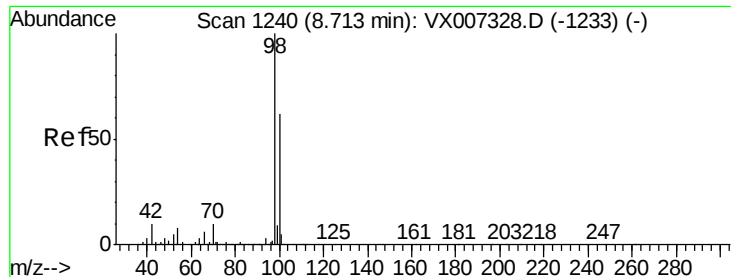


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.993 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

MSVOA\_X

ClientSampleId :

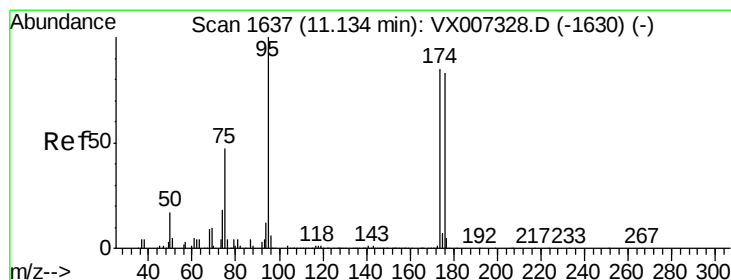
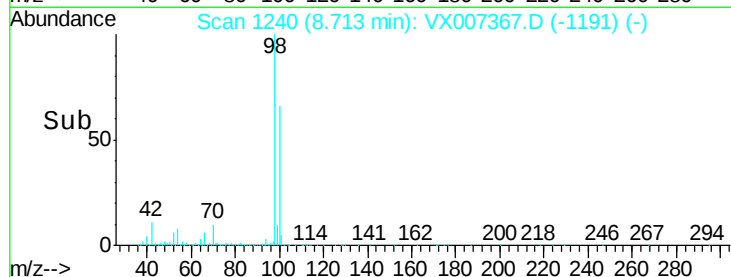
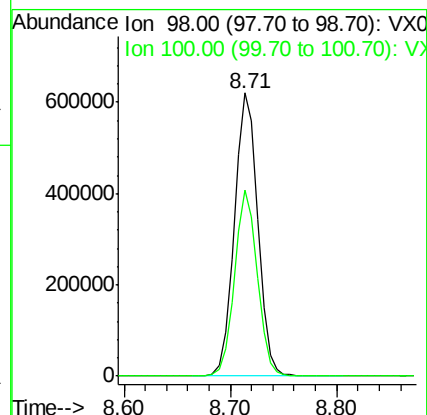
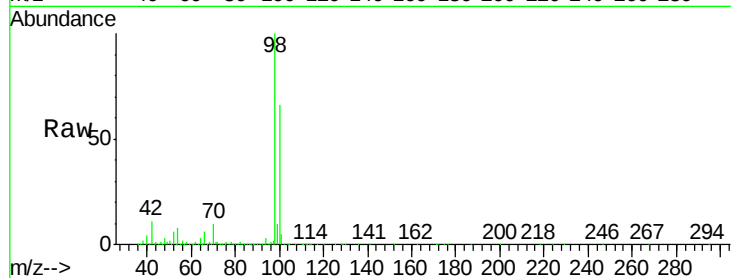
VX0205MBL01

Tot Ion: 98 Resp: 956747

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 48.724 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

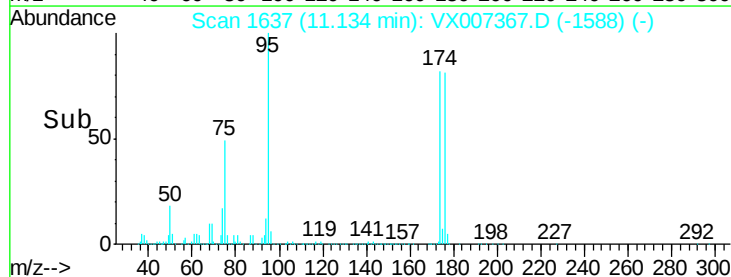
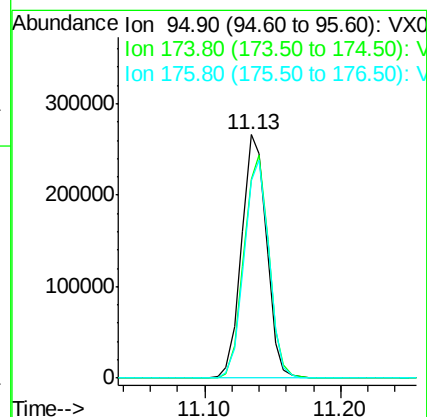
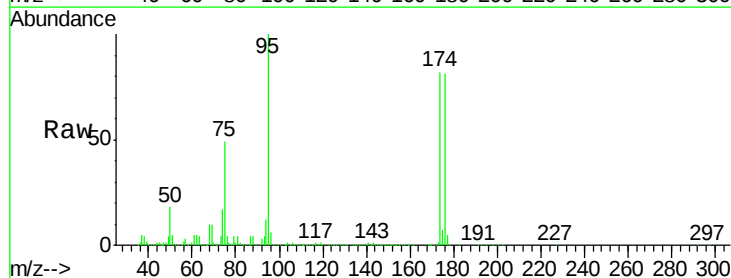
Tgt Ion: 95 Resp: 340439

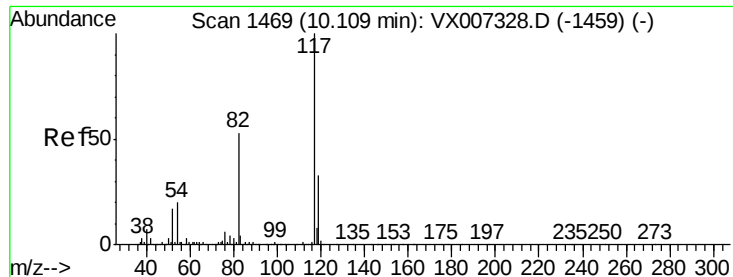
Ion Ratio Lower Upper

95 100

174 91.6 0.0 189.2

176 89.3 0.0 186.2

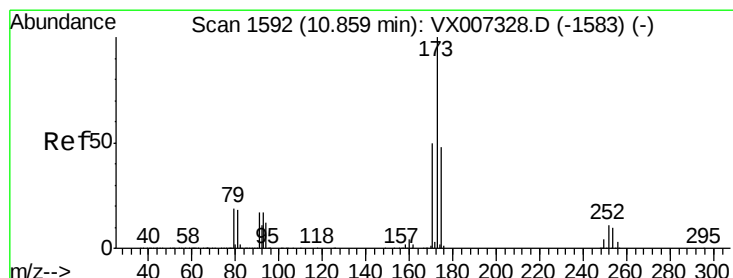
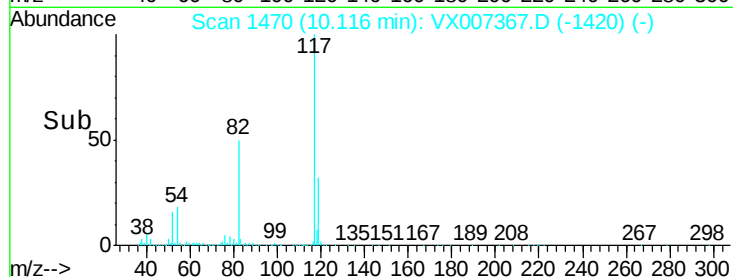
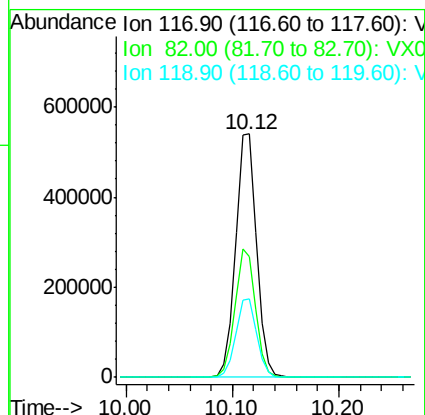
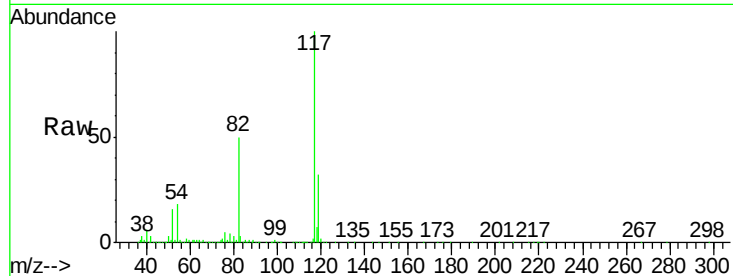




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX007367.D  
Acq: 05 Feb 2019 10:58

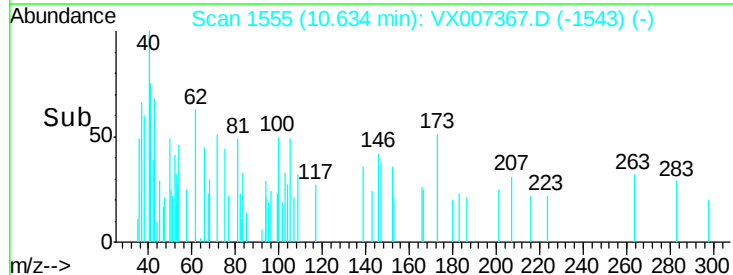
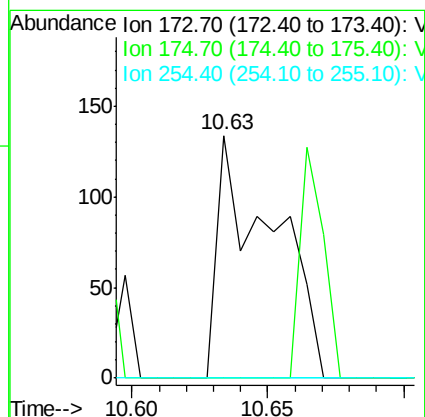
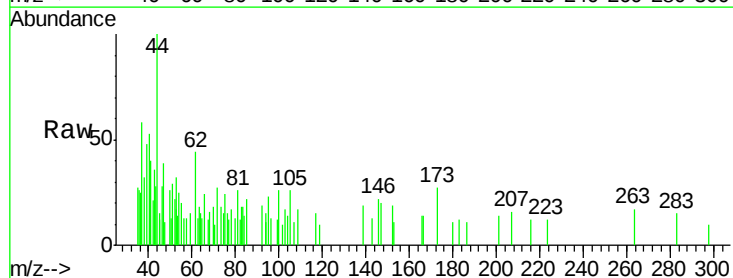
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0205MBL01

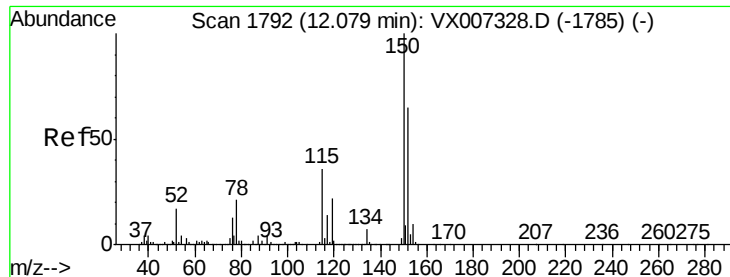
Tot Ion:117 Resp: 748953  
Ion Ratio Lower Upper  
117 100  
82 49.6 42.1 63.1  
119 32.2 26.5 39.7



#71  
Bromoform  
Concen: 4.065 ug/l  
RT: 10.63 min Scan# 1555  
Delta R.T. -0.23 min  
Lab File: VX007367.D  
Acq: 05 Feb 2019 10:58

Tgt Ion:173 Resp: 188  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.2 72.6#  
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

MSVOA\_X

ClientSampleId :

VX0205MBL01

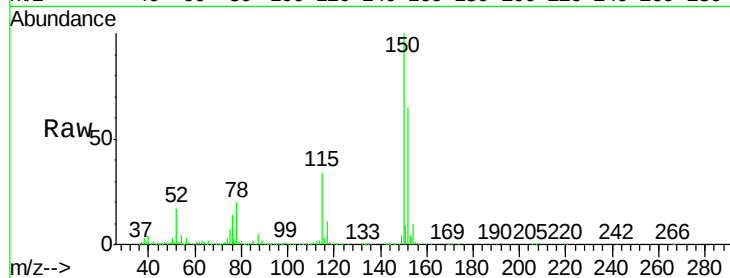
Tot Ion:152 Resp: 366358

Ion Ratio Lower Upper

152 100

115 54.6 38.0 114.0

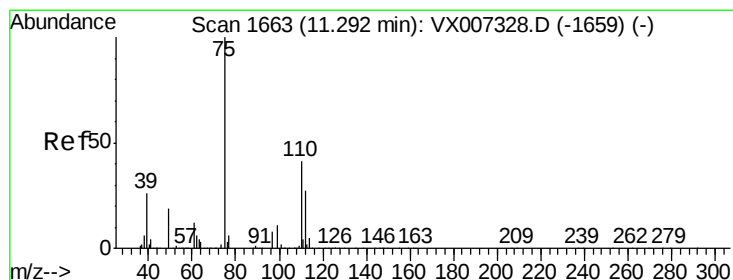
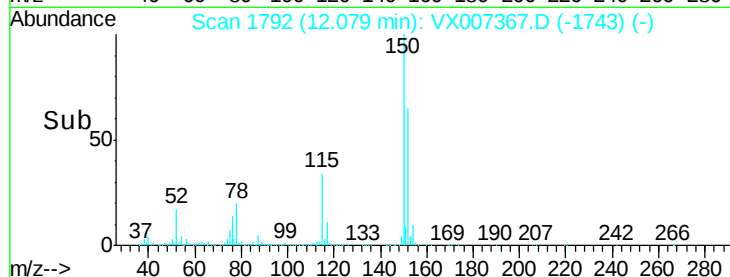
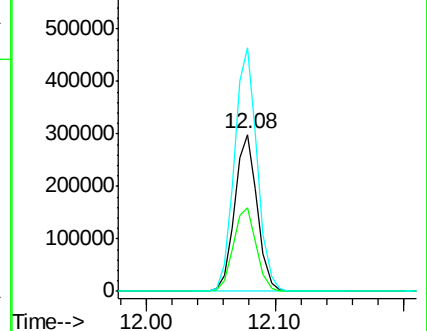
150 156.9 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.959 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007367.D

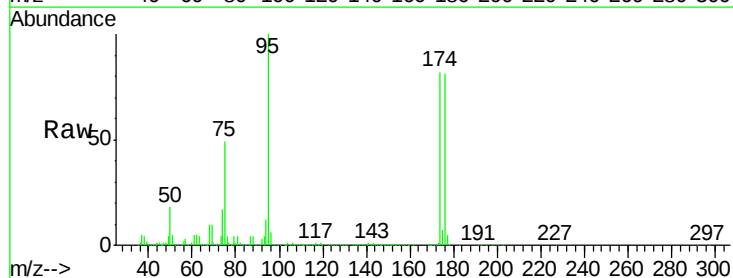
Acq: 05 Feb 2019 10:58

Tgt Ion: 75 Resp: 163612

Ion Ratio Lower Upper

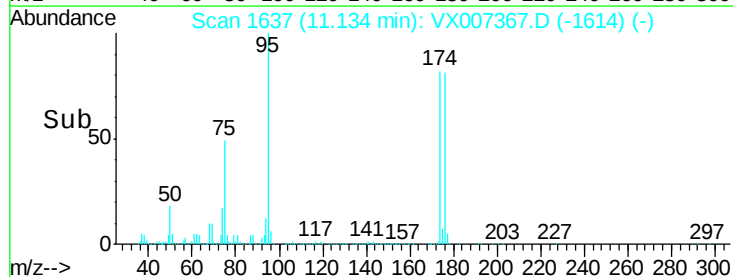
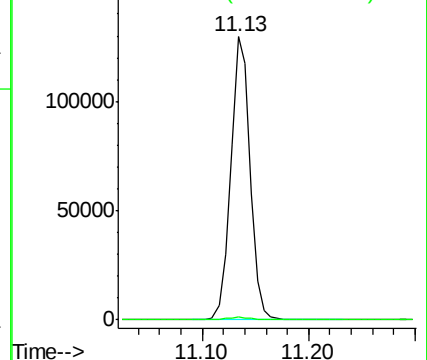
75 100

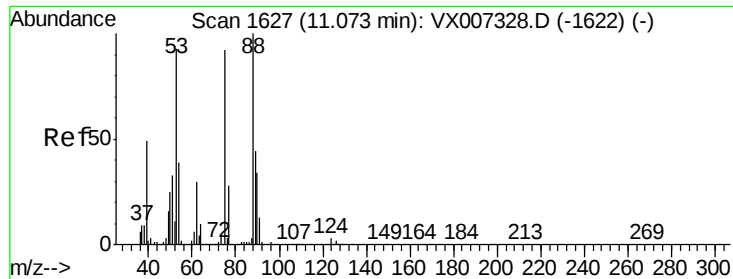
77 1.2 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.193 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007367.D

Acq: 05 Feb 2019 10:58

Instrument :

MSVOA\_X

ClientSampleId :

VX0205MBL01

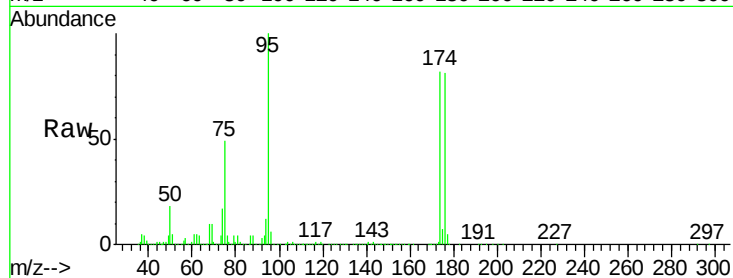
Tot Ion: 75 Resp: 163612

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.1 41.4 62.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

