

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071119\  
 Data File : VX010796.D  
 Acq On : 11 Jul 2019 10:57  
 Operator : JC/SP  
 Sample : VX0711MBL01  
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0711MBL01

Quant Time: Jul 12 06:50:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 215245   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 338827   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 304524   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 139970   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 109436   | 54.23 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.46% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 105587   | 50.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.86% |          |
| 50) Toluene-d8              | 8.71  | 98   | 401990   | 50.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.36% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 131493   | 45.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.84%  |          |

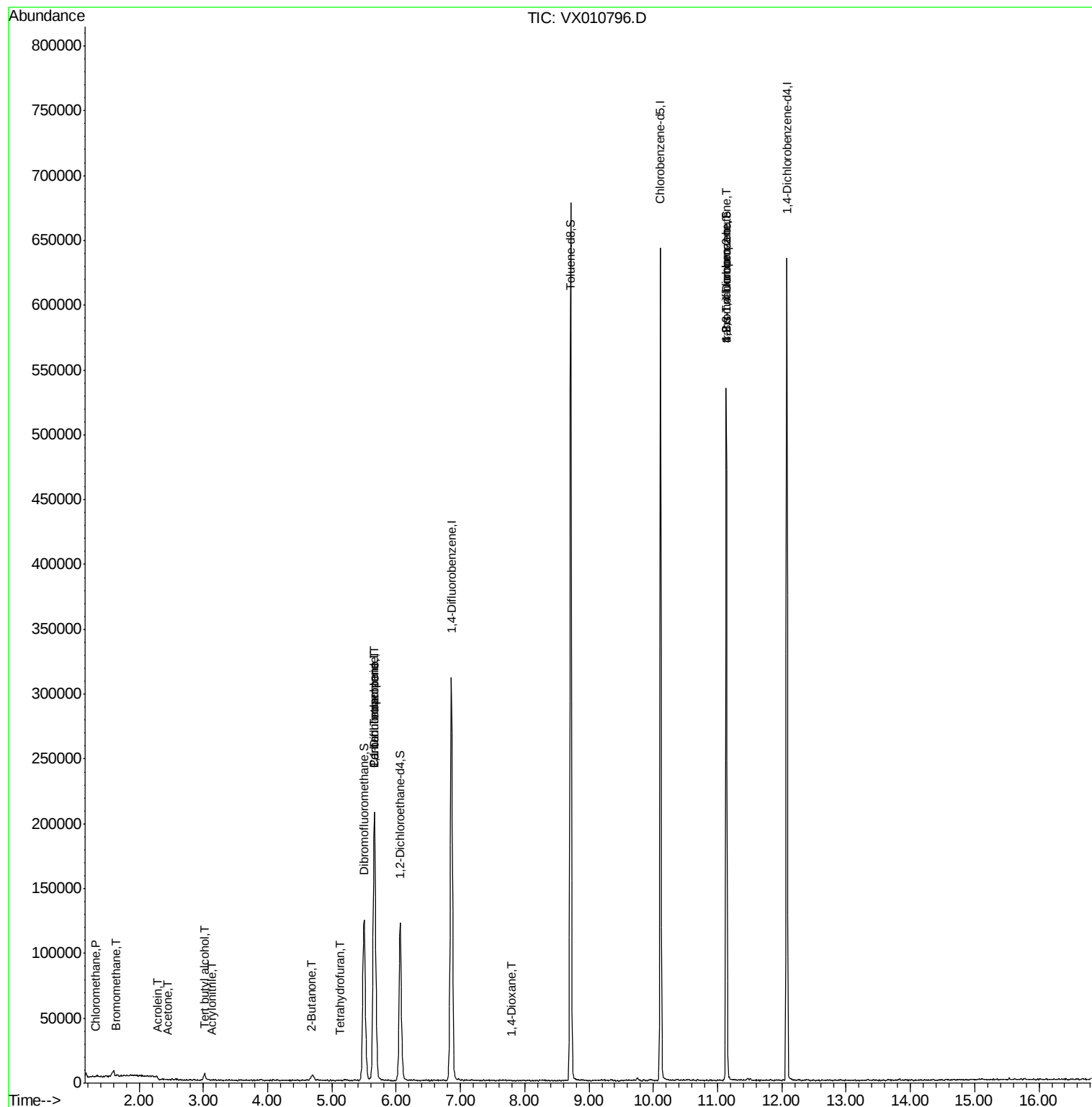
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 528      | 0.303  | ug/l # | 66     |
| 5) Bromomethane                | 1.65  | 94   | 609      | 0.655  | ug/l   | 98     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2708     | 5.128  | ug/l # | 90     |
| 13) Acrolein                   | 2.29  | 56   | 291      | 0.831  | ug/l # | 59     |
| 15) Acrylonitrile              | 3.14  | 53   | 234      | 0.224  | ug/l # | 34     |
| 16) Acetone                    | 2.45  | 43   | 310      | 0.306  | ug/l # | 76     |
| 25) 2-Butanone                 | 4.68  | 43   | 354      | 0.239  | ug/l # | 78     |
| 29) Tetrahydrofuran            | 5.12  | 42   | 218      | 0.237  | ug/l # | 36     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 13762    | 5.111  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 19727    | 6.766  | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.79  | 88   | 46       | 0.750  | ug/l # | 61     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 64495    | 25.286 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 64495    | 58.990 | ug/l # | 16     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071119\  
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Sample : VX0711MBL01  
Misc : 5.0µ/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampled :  
VX0711MBL01

Quant Time: Jul 12 06:50:35 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

Instrument :

MSVOA\_X

ClientSampleId :

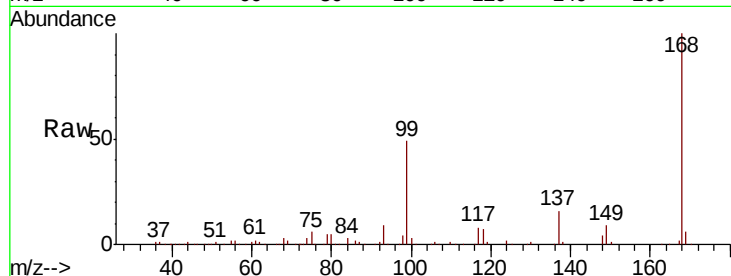
VX0711MBL01

Tot Ion:168 Resp: 215245

Ion Ratio Lower Upper

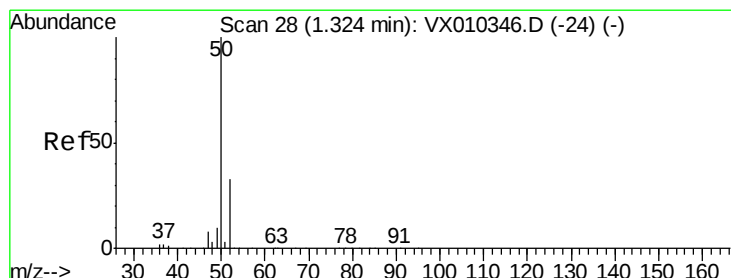
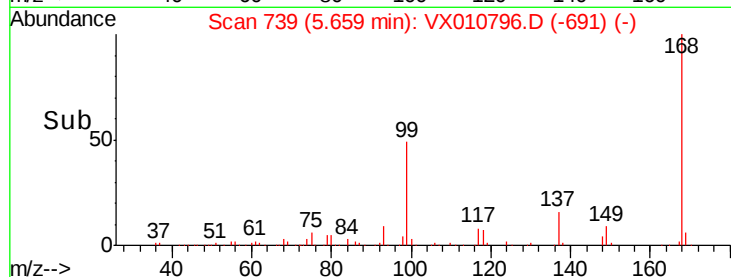
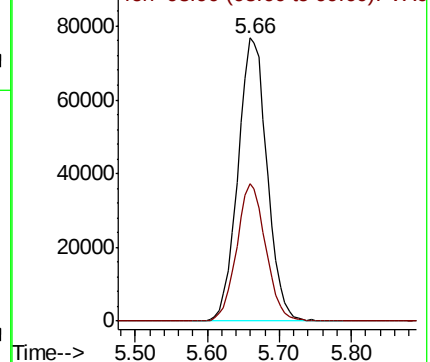
168 100

99 48.8 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.303 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010796.D

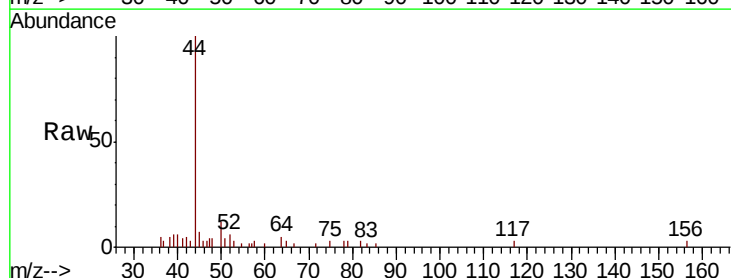
Acq: 11 Jul 2019 10:57

Tgt Ion: 50 Resp: 528

Ion Ratio Lower Upper

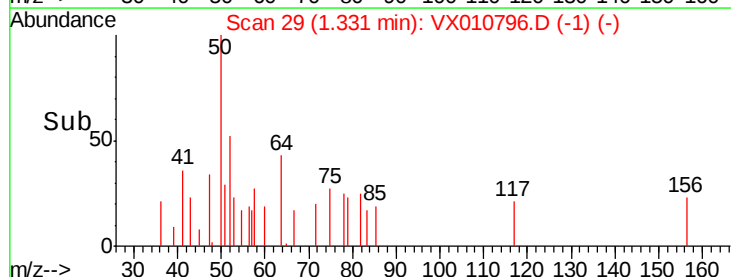
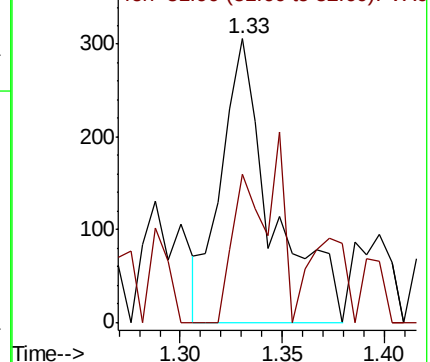
50 100

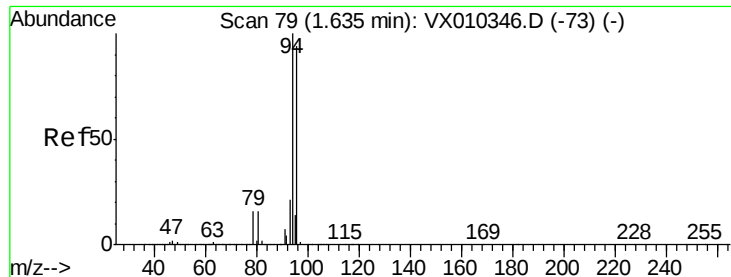
52 52.3 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.655 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

Instrument :

MSVOA\_X

ClientSampled :

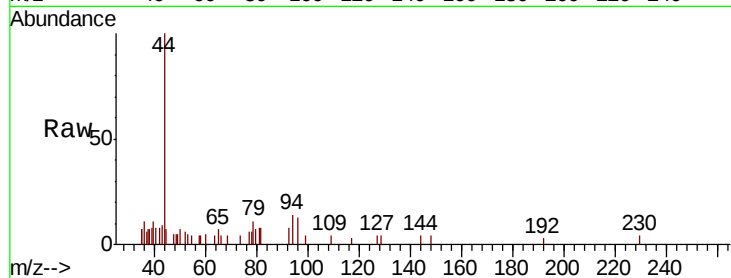
VX0711MBL01

Tot Ion: 94 Resp: 609

Ion Ratio Lower Upper

94 100

96 96.4 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

150

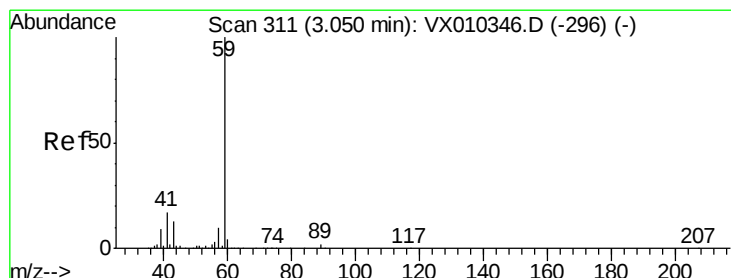
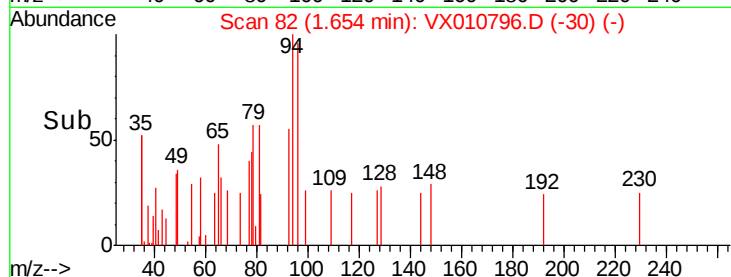
100

50

0

1.60 1.65 1.70

Time-->



#11

Tert butyl alcohol

Concen: 5.128 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX010796.D

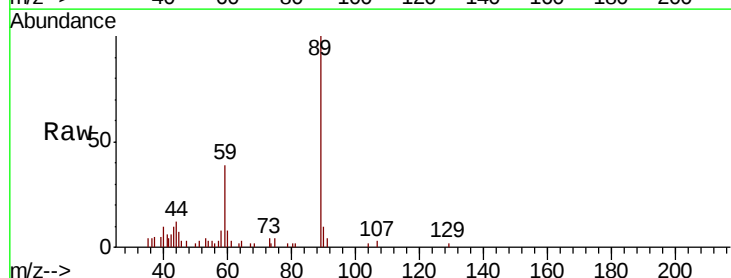
Acq: 11 Jul 2019 10:57

Tgt Ion: 59 Resp: 2708

Ion Ratio Lower Upper

59 100

57 5.9 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

1000

800

600

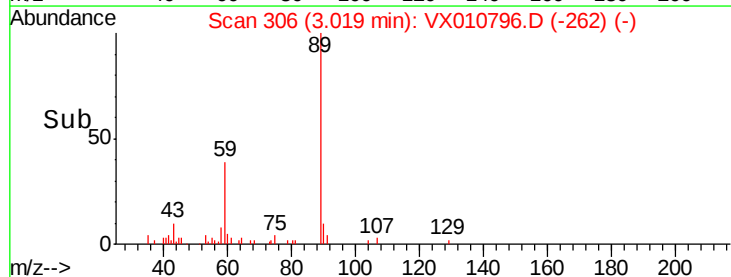
400

200

0

2.90 2.95 3.00 3.05 3.10

Time-->





#13

Acrolein

Concen: 0.831 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

Instrument :

MSVOA\_X

ClientSampleId :

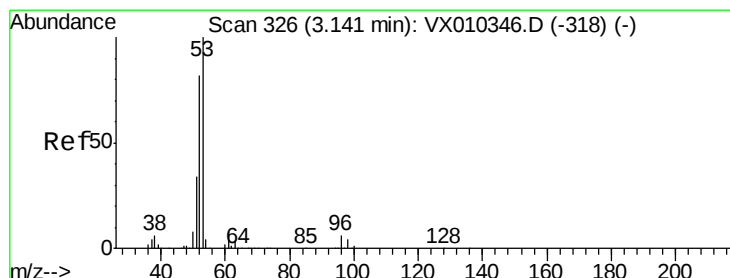
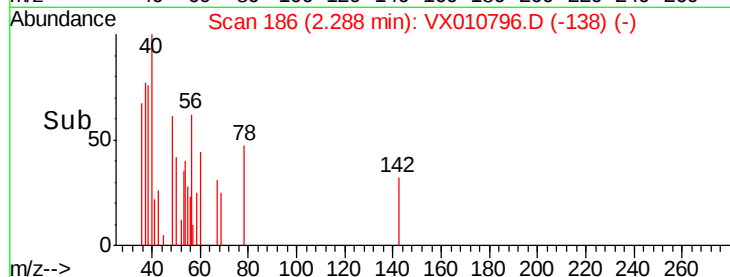
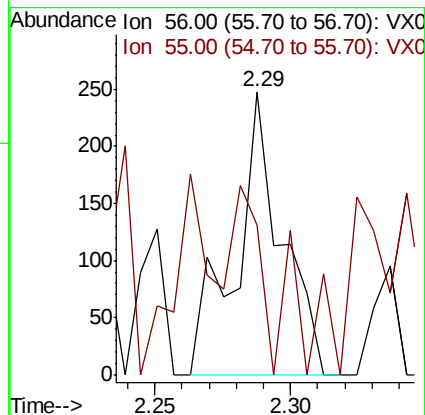
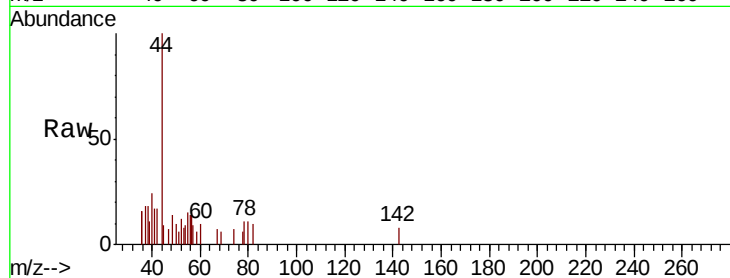
VX0711MBL01

Tot Ion: 56 Resp: 291

Ion Ratio Lower Upper

56 100

55 37.5 56.9 85.3#



#15

Acrylonitrile

Concen: 0.224 ug/l

RT: 3.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

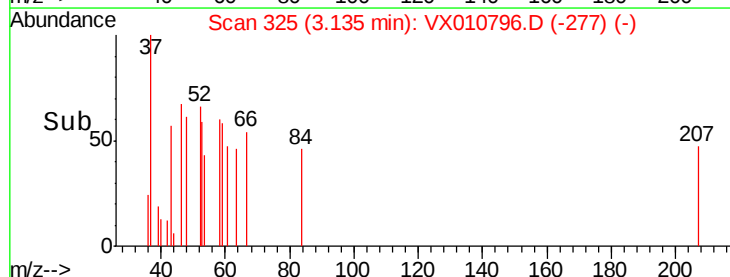
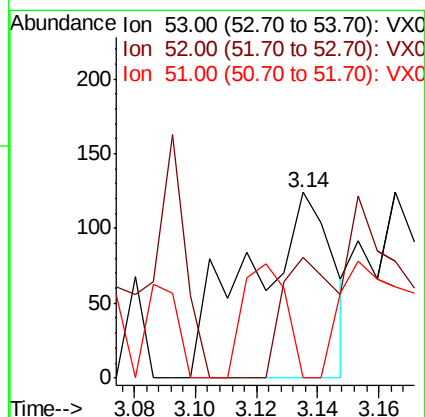
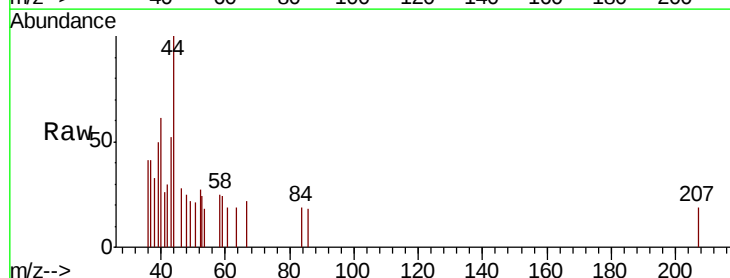
Tgt Ion: 53 Resp: 234

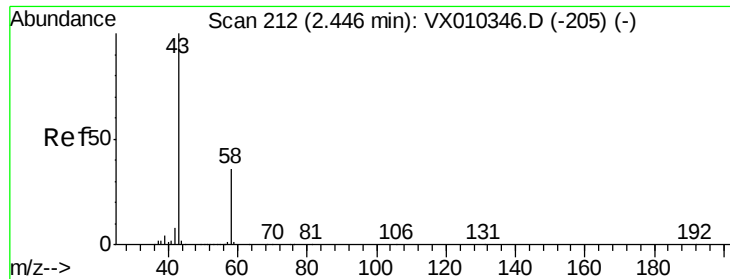
Ion Ratio Lower Upper

53 100

52 0.0 65.5 98.3#

51 31.6 28.2 42.4





#16

Acetone

Concen: 0.306 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

Instrument :

MSVOA\_X

ClientSampleId :

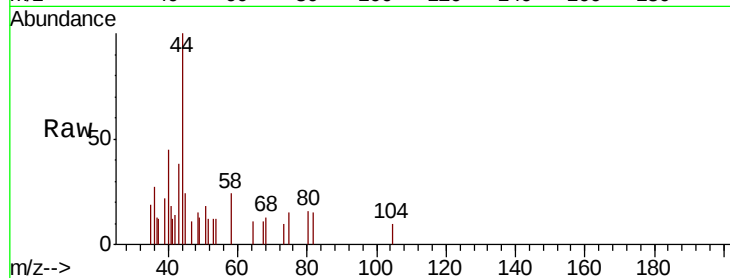
VX0711MBL01

Tot Ion: 43 Resp: 310

Ion Ratio Lower Upper

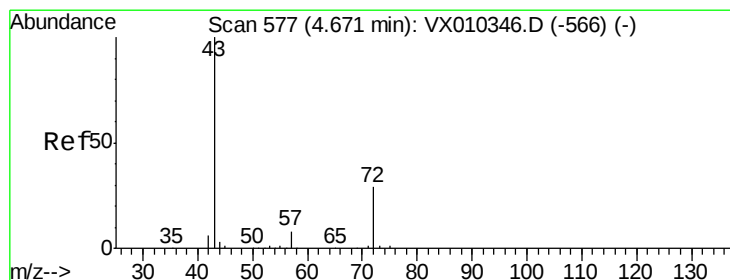
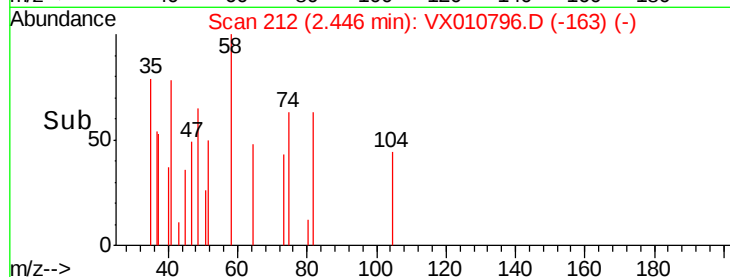
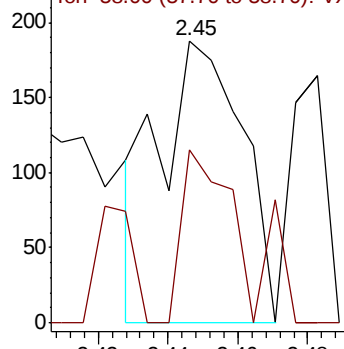
43 100

58 21.8 28.9 43.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 0.239 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX010796.D

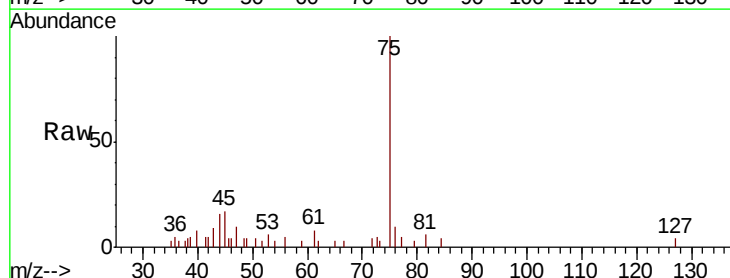
Acq: 11 Jul 2019 10:57

Tgt Ion: 43 Resp: 354

Ion Ratio Lower Upper

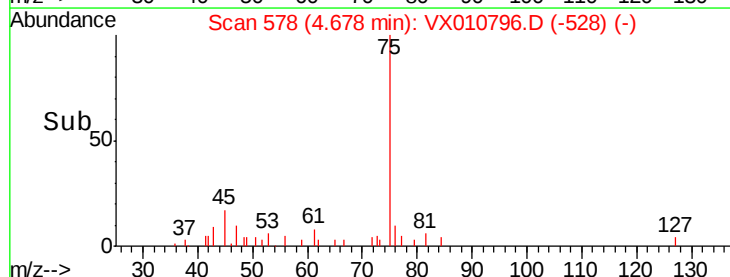
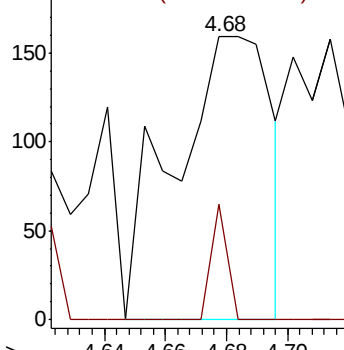
43 100

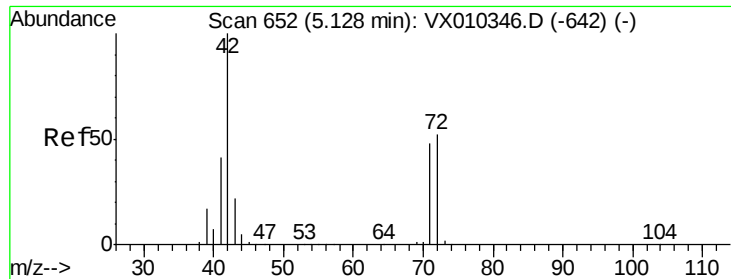
72 40.9 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.237 ug/l

RT: 5.12 min Scan# 651

Delta R.T. -0.01 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

Instrument :

MSVOA\_X

ClientSampleId :

VX0711MBL01

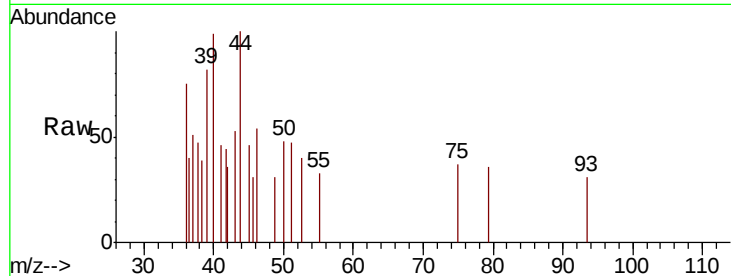
Tot Ion: 42 Resp: 218

Ion Ratio Lower Upper

42 100

72 10.6 40.6 60.8#

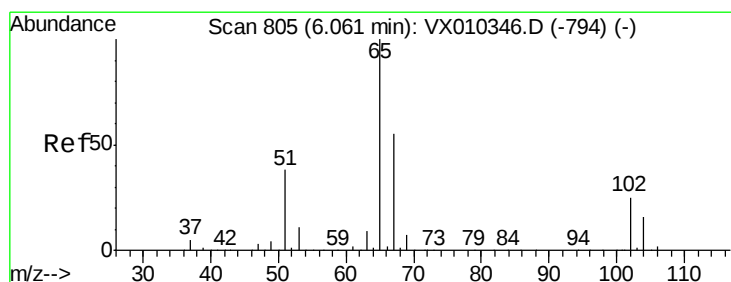
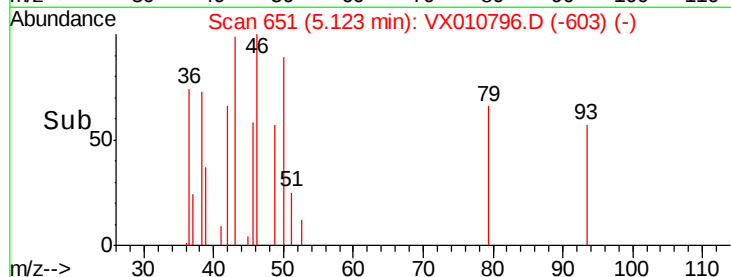
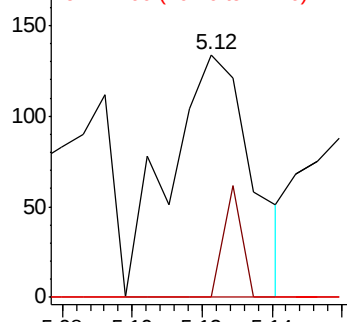
71 0.0 37.8 56.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.226 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010796.D

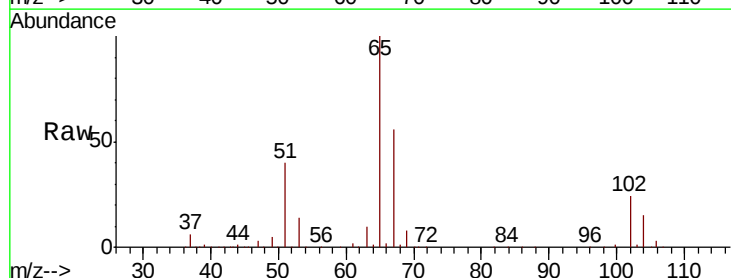
Acq: 11 Jul 2019 10:57

Tgt Ion: 65 Resp: 109436

Ion Ratio Lower Upper

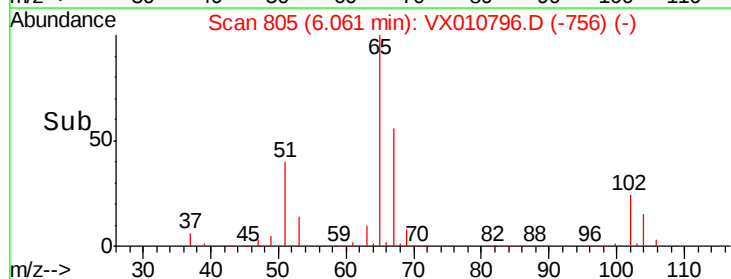
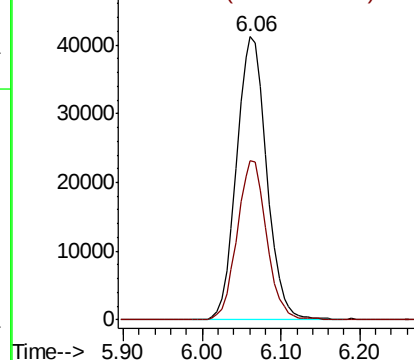
65 100

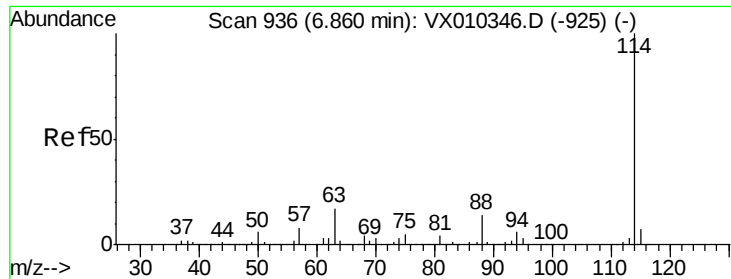
67 55.2 0.0 110.2



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: VX010796.D

Acq: 11 Jul 2019 10:57

Instrument :

MSVOA\_X

ClientSampleId :

VX0711MBL01

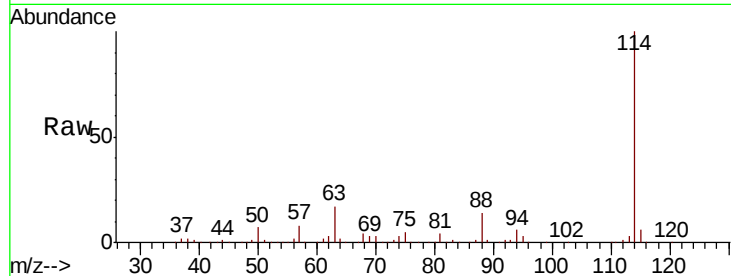
Tot Ion:114 Resp: 338827

Ion Ratio Lower Upper

114 100

63 17.4 0.0 33.8

88 14.1 0.0 27.6



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

200000

150000

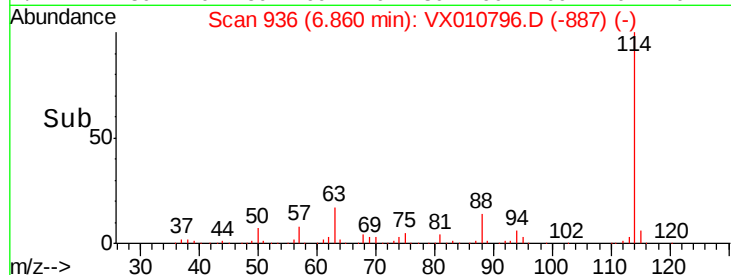
100000

50000

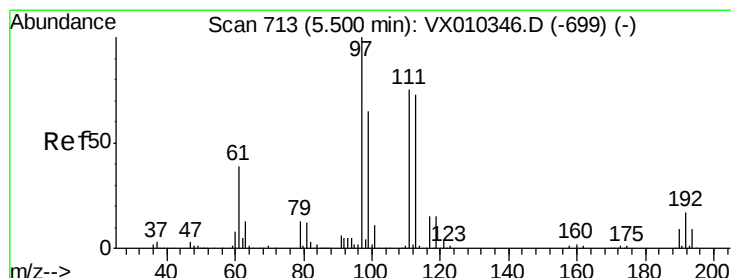
0

6.86

6.70 6.80 6.90 7.00



Time-->



#35

Dibromofluoromethane

Concen: 50.933 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

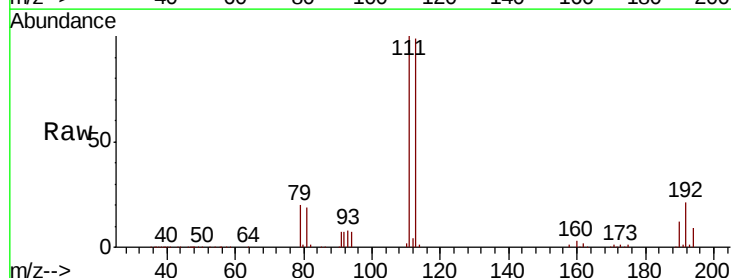
Tgt Ion:113 Resp: 105587

Ion Ratio Lower Upper

113 100

111 101.4 81.2 121.8

192 21.9 18.6 27.8



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

50000

40000

30000

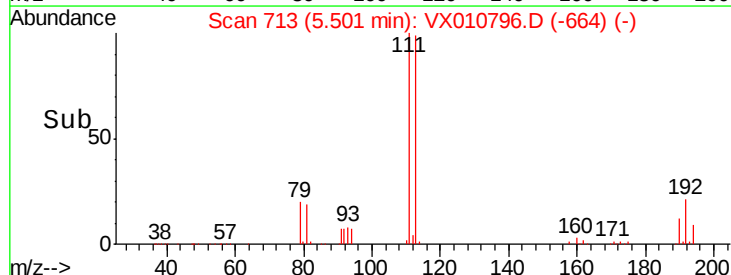
20000

10000

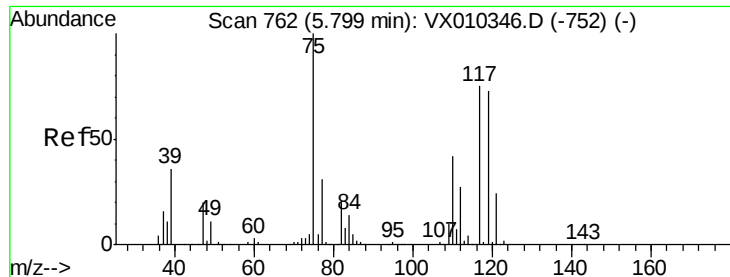
0

5.50

5.40 5.50 5.60



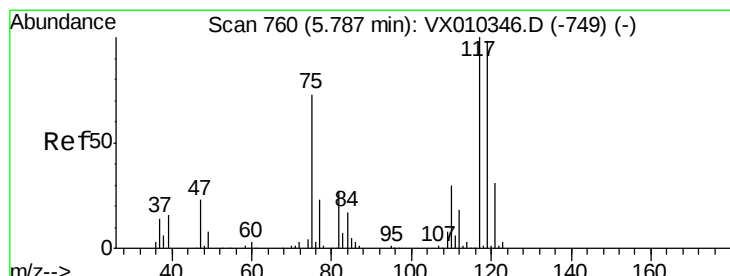
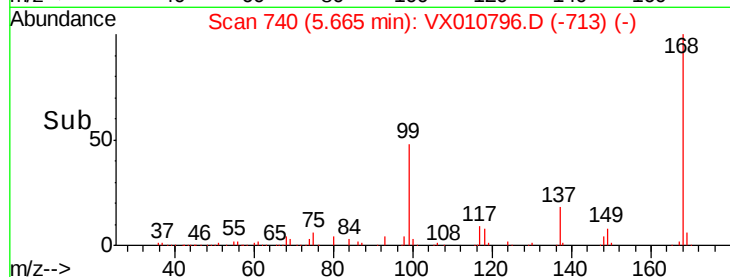
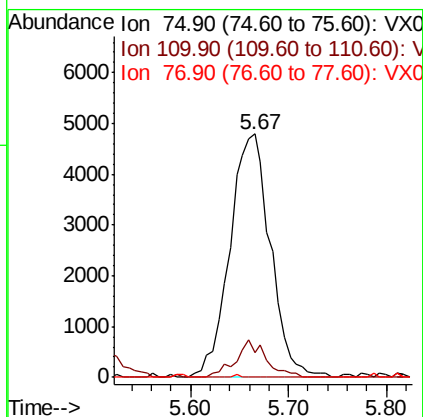
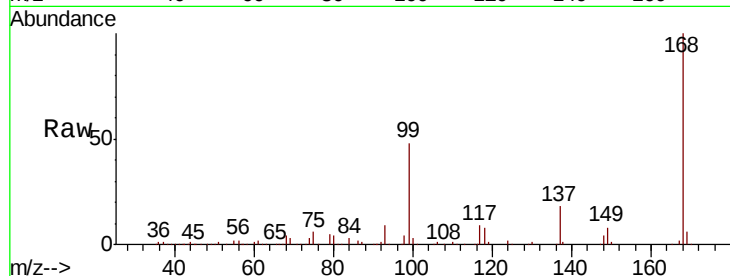
Time-->



#36  
 1,1-Dichloropropene  
 Concen: 5.111 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.13 min  
 Lab File: VX010796.D  
 Acq: 11 Jul 2019 10:57

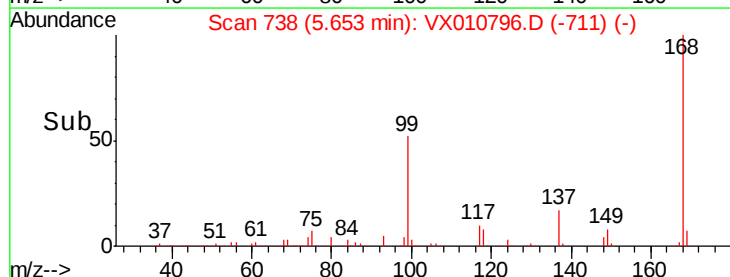
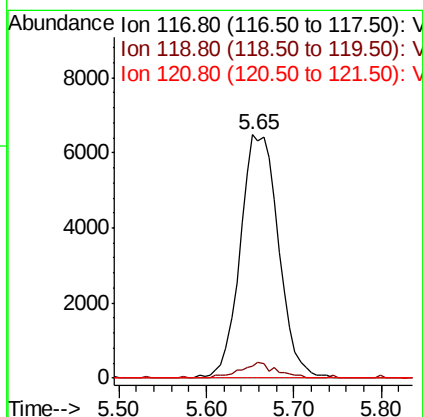
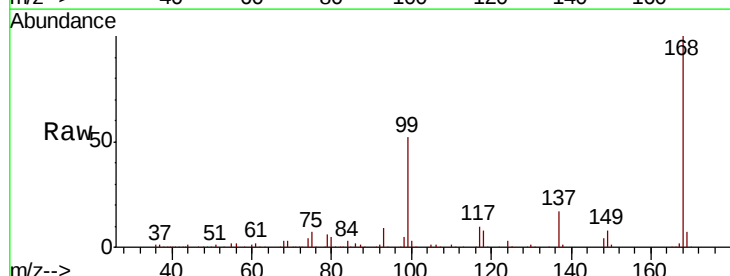
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0711MBL01

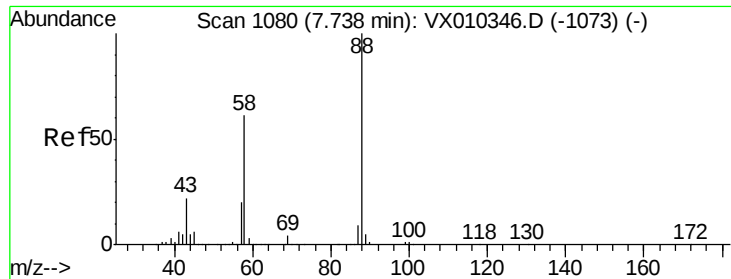
Tot Ion: 75 Resp: 13762  
 Ion Ratio Lower Upper  
 75 100  
 110 11.5 20.8 62.2#  
 77 0.2 25.4 38.0#



#38  
 Carbon Tetrachloride  
 Concen: 6.766 ug/l  
 RT: 5.65 min Scan# 738  
 Delta R.T. -0.13 min  
 Lab File: VX010796.D  
 Acq: 11 Jul 2019 10:57

Tgt Ion: 117 Resp: 19727  
 Ion Ratio Lower Upper  
 117 100  
 119 5.1 78.2 117.4#  
 121 0.0 24.7 37.1#

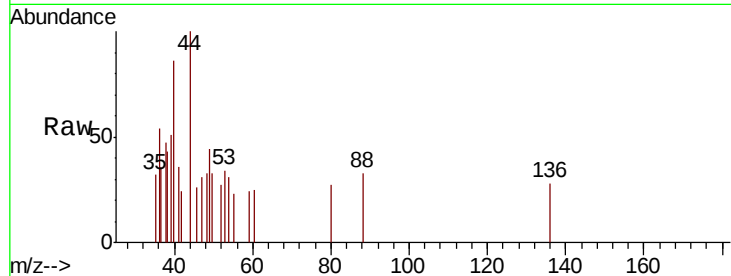




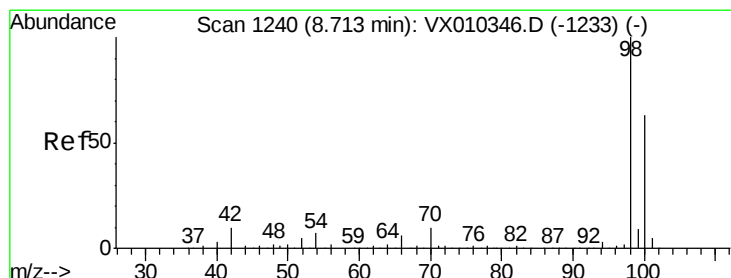
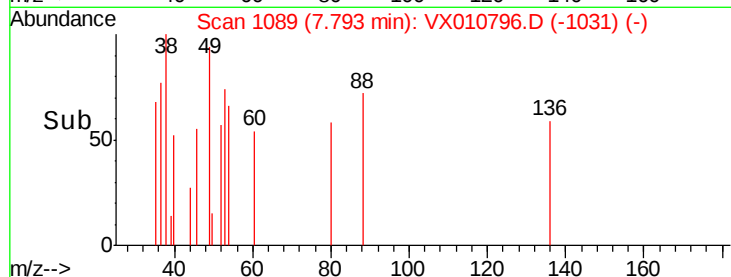
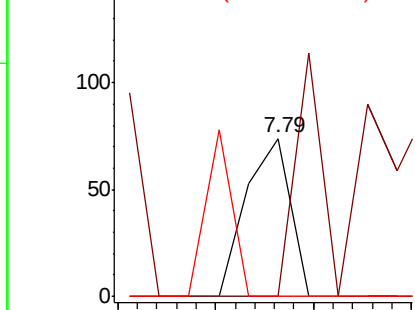
#49  
1,4-Dioxane  
Concen: 0.750 ug/l  
RT: 7.79 min Scan# 1089  
Delta R.T. 0.06 min  
Lab File: VX010796.D  
Acq: 11 Jul 2019 10:57

Instrument :  
MSVOA\_X  
ClientSampled :  
VX0711MBL01

Tot Ion: 88 Resp: 46  
Ion Ratio Lower Upper  
88 100  
43 91.3 20.2 30.2#  
58 63.0 49.5 74.3

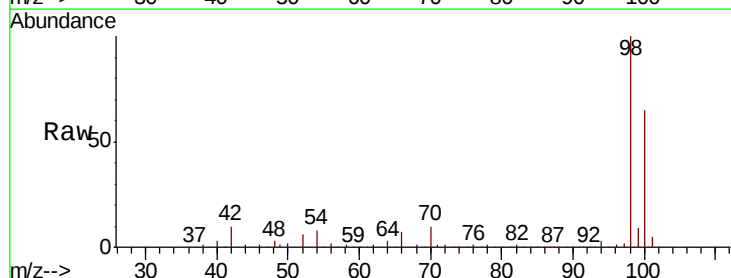


Abundance Ion 88.00 (87.70 to 88.70): VX0  
Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

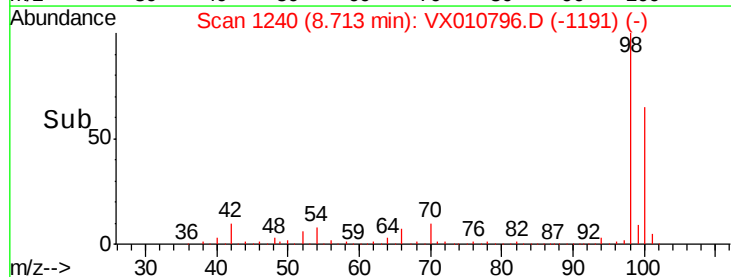
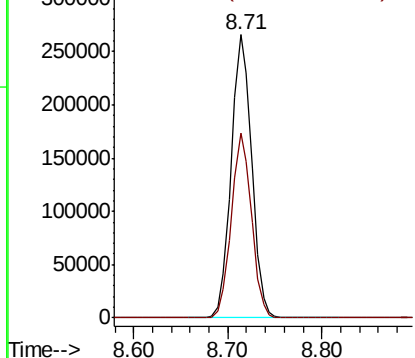


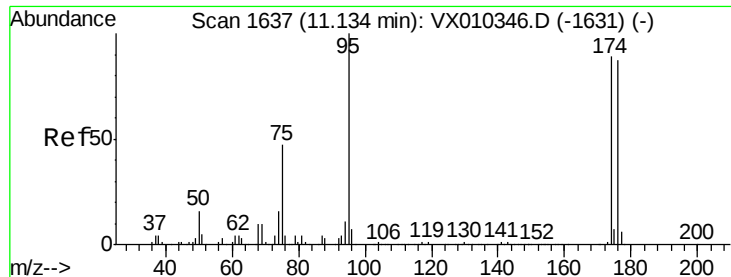
#50  
Toluene-d8  
Concen: 50.685 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010796.D  
Acq: 11 Jul 2019 10:57

Tgt Ion: 98 Resp: 401990  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.923 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

Instrument :

MSVOA\_X

ClientSampleId :

VX0711MBL01

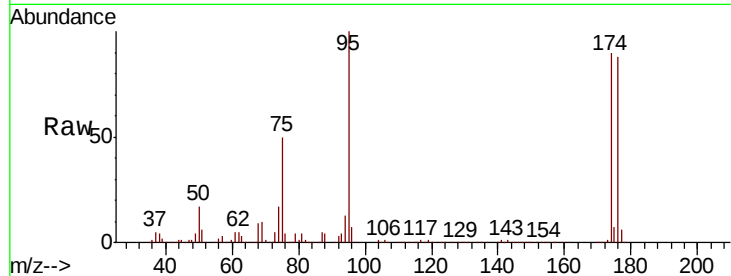
Tot Ion: 95 Resp: 131493

Ion Ratio Lower Upper

95 100

174 94.0 0.0 187.6

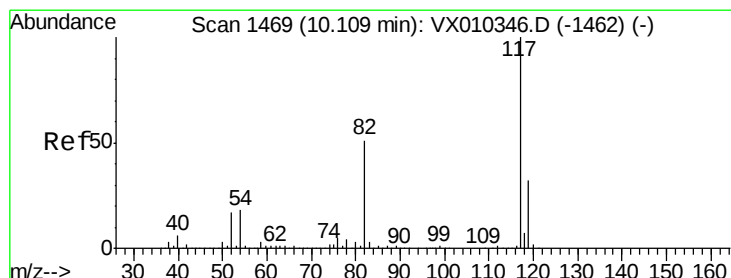
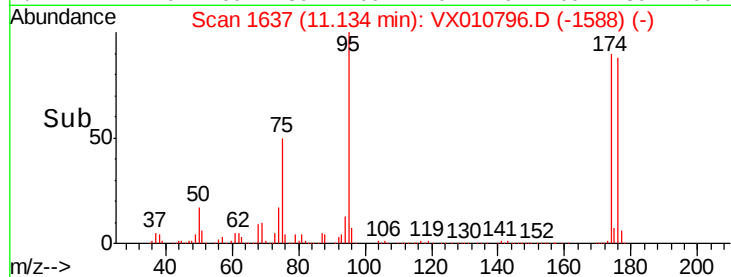
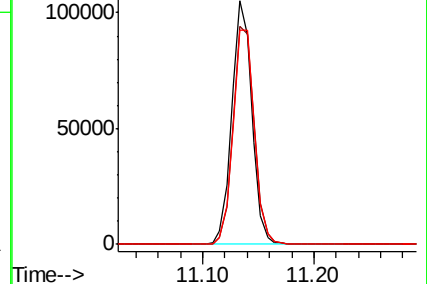
176 92.9 0.0 184.0



Abundance Ion 94.90 (94.60 to 95.60): VX010346.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX010346.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX010346.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

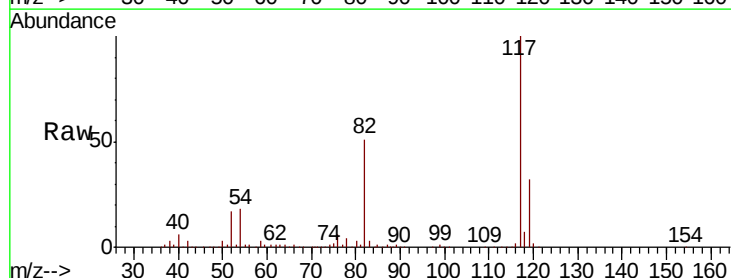
Tgt Ion: 117 Resp: 304524

Ion Ratio Lower Upper

117 100

82 51.4 41.2 61.8

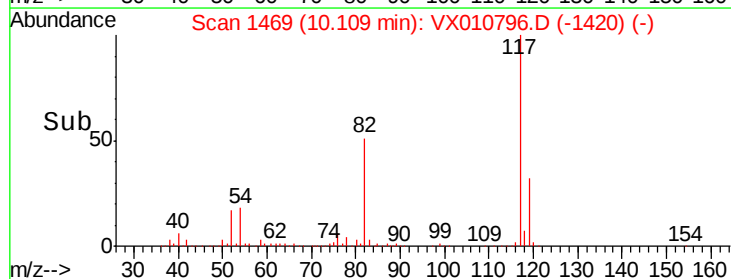
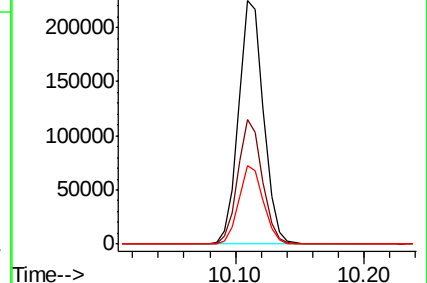
119 32.1 25.5 38.3

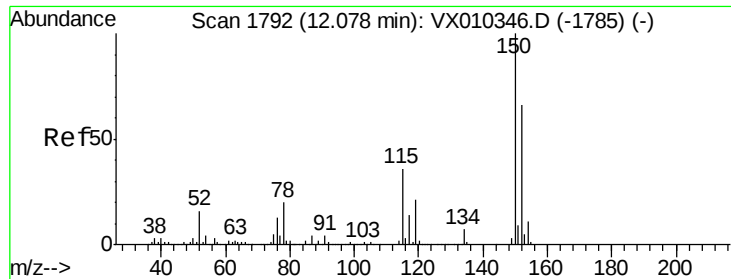


Abundance Ion 116.90 (116.60 to 117.60): VX010346.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010346.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010346.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010796.D

Acq: 11 Jul 2019 10:57

Instrument :

MSVOA\_X

ClientSampleId :

VX0711MBL01

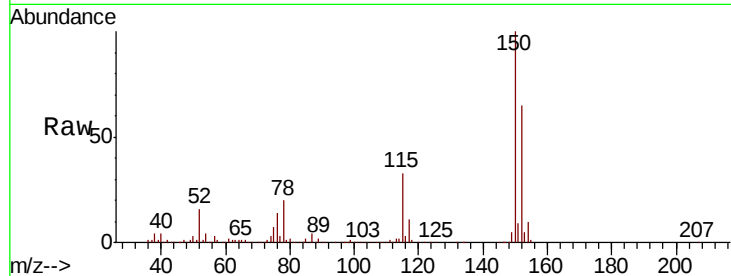
Tot Ion:152 Resp: 139970

Ion Ratio Lower Upper

152 100

115 54.2 38.6 115.7

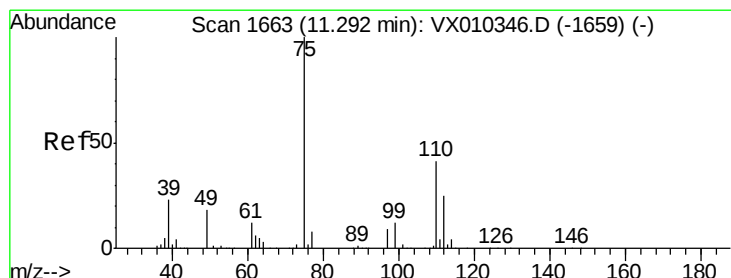
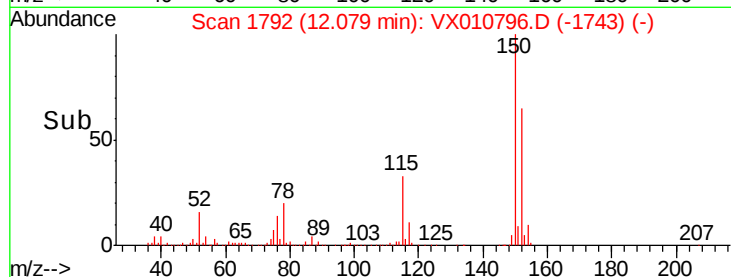
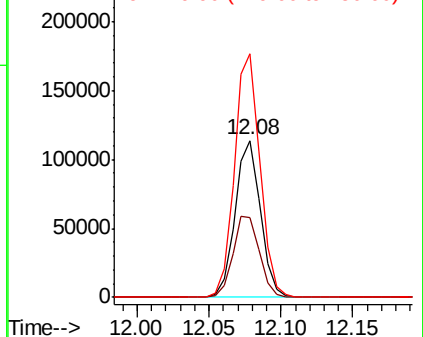
150 157.0 0.0 347.4



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: 25.286 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010796.D

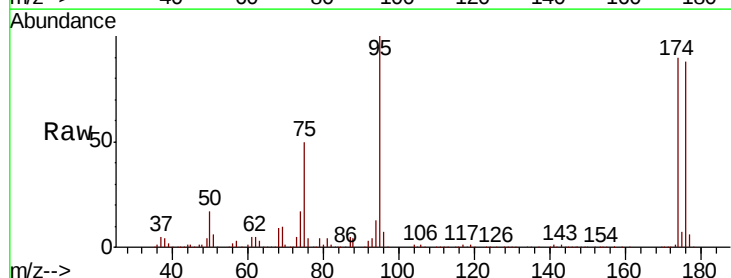
Acq: 11 Jul 2019 10:57

Tgt Ion: 75 Resp: 64495

Ion Ratio Lower Upper

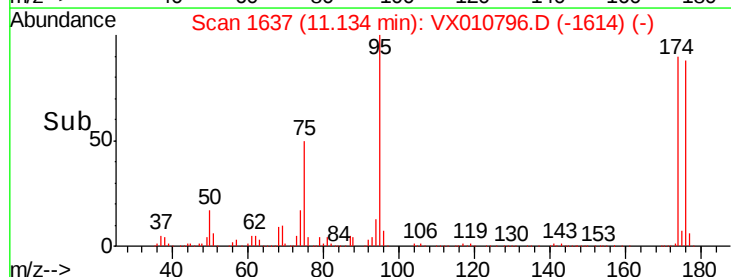
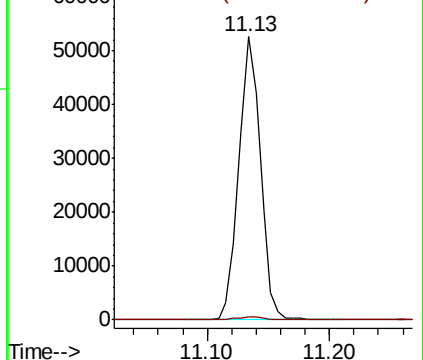
75 100

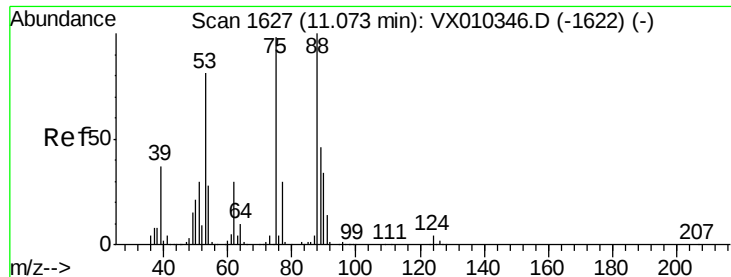
77 1.3 22.6 67.8#



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: 58.990 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX010796.D  
 Acq: 11 Jul 2019 10:57

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0711MBL01

Tot Ion: 75 Resp: 64495  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 66.1 99.1#  
 89 0.1 37.8 56.6#

