

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060519\
 Data File : VX010072.D
 Acq On : 05 Jun 2019 13:21
 Operator : JC/SP
 Sample : K3190-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 06:31:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	177339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	282601	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	253944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113506	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	117637	46.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.92%	
35) Dibromofluoromethane	5.50	113	86296	48.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.14%	
50) Toluene-d8	8.71	98	356668	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
62) 4-Bromofluorobenzene	11.13	95	121702	46.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.92%	

Target Compounds

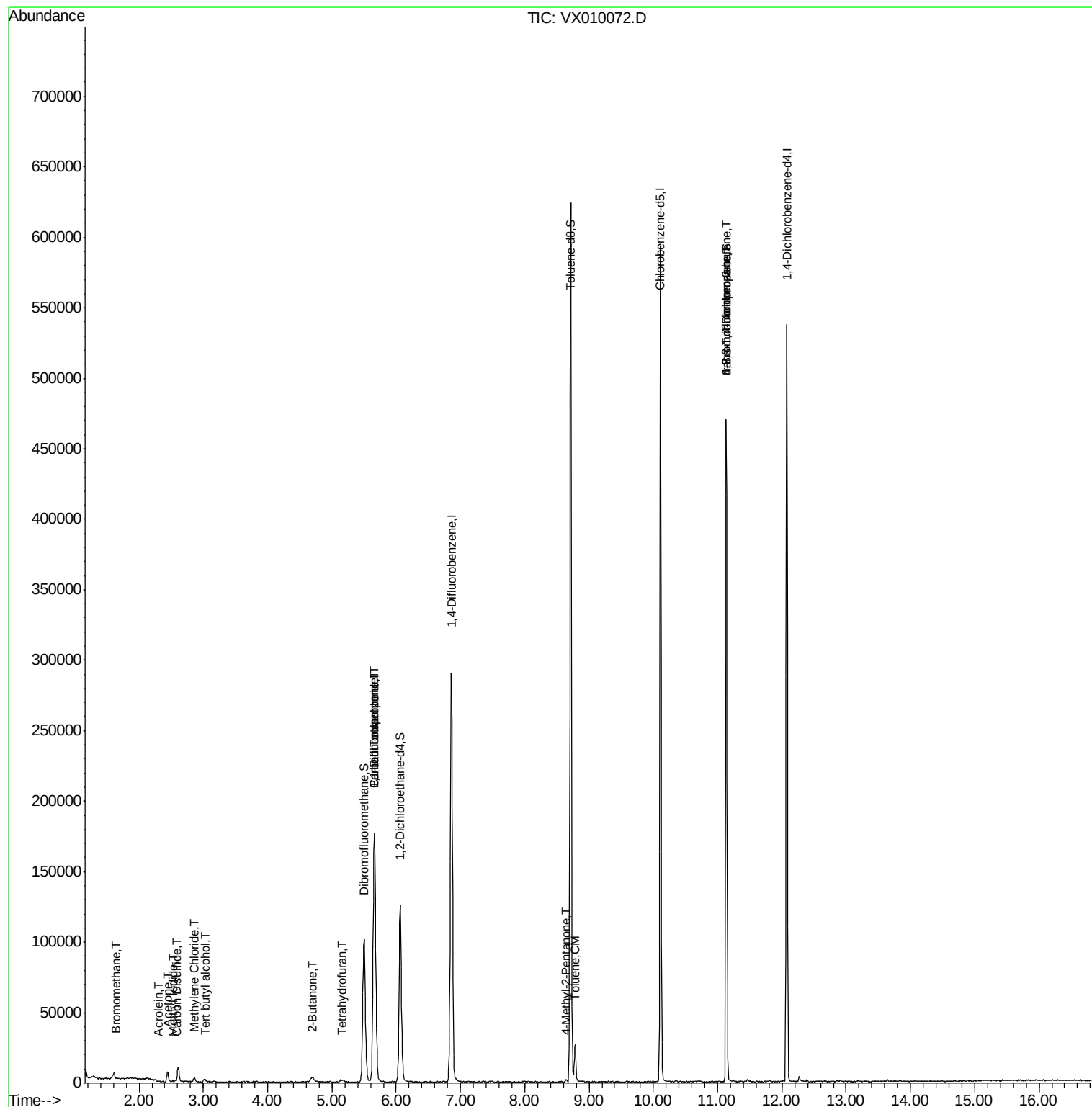
						Qvalue
5) Bromomethane	1.65	94	544	0.342	ug/l	85
10) Methyl Iodide	2.52	142	292	4.779	ug/l #	86
11) Tert butyl alcohol	3.03	59	1469	2.383	ug/l #	84
13) Acrolein	2.30	56	142	21.394	ug/l #	69
16) Acetone	2.44	43	7801	5.390	ug/l	98
17) Carbon Disulfide	2.57	76	852	0.540	ug/l #	88
20) Methylene Chloride	2.86	84	1246	0.562	ug/l #	85
25) 2-Butanone	4.69	43	2246	0.996	ug/l #	84
29) Tetrahydrofuran	5.15	42	1812	1.253	ug/l #	75
36) 1,1-Dichloropropene	5.67	75	13822	4.821	ug/l #	51
38) Carbon Tetrachloride	5.67	117	16175	6.528	ug/l #	16
51) 4-Methyl-2-Pentanone	8.65	43	1147	0.274	ug/l	100
52) Toluene	8.79	92	8964	1.736	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	62129	22.890	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62129	56.633	ug/l #	10

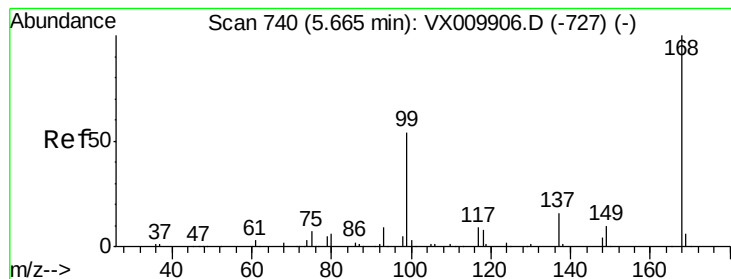
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

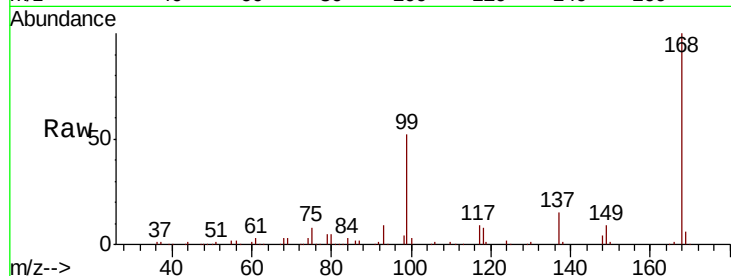
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 177339

Ion Ratio Lower Upper

168 100

99 51.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

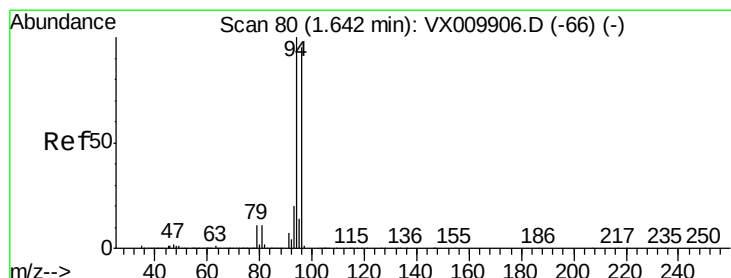
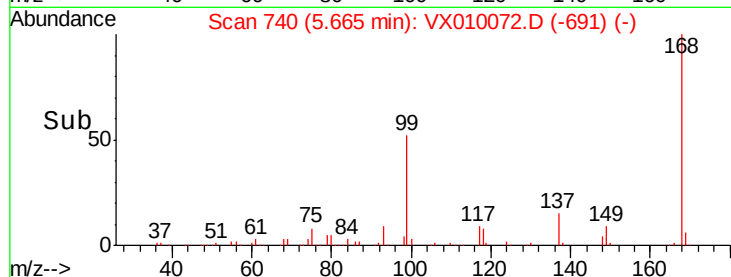
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.342 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010072.D

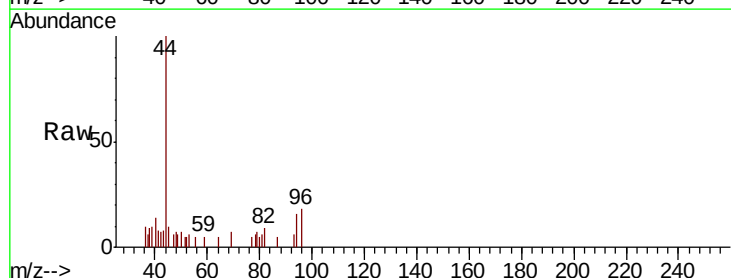
Acq: 05 Jun 2019 13:21

Tgt Ion: 94 Resp: 544

Ion Ratio Lower Upper

94 100

96 109.7 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

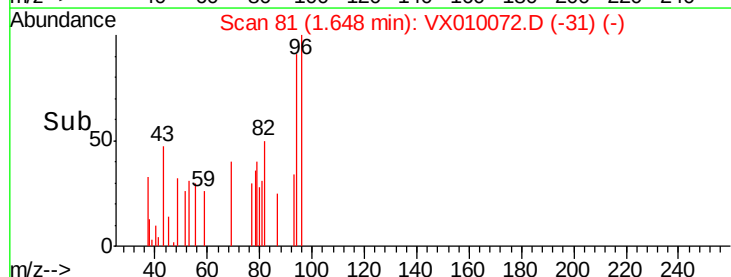
150

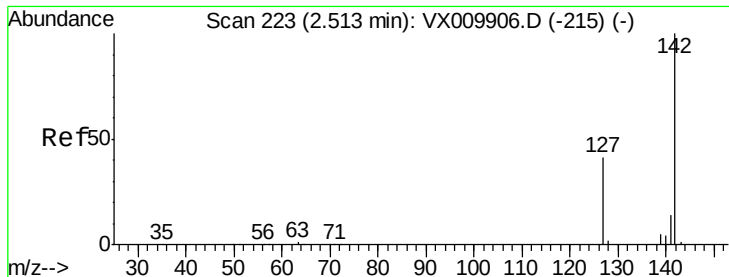
100

50

0

Time--> 1.55 1.60 1.65 1.70

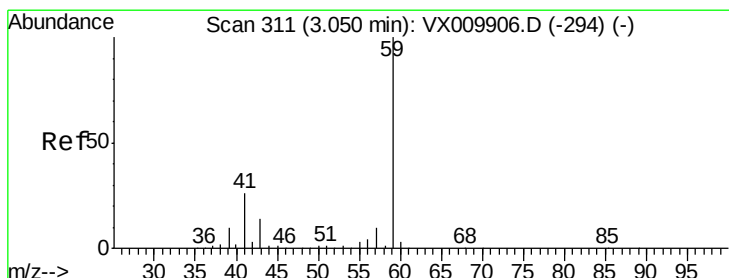
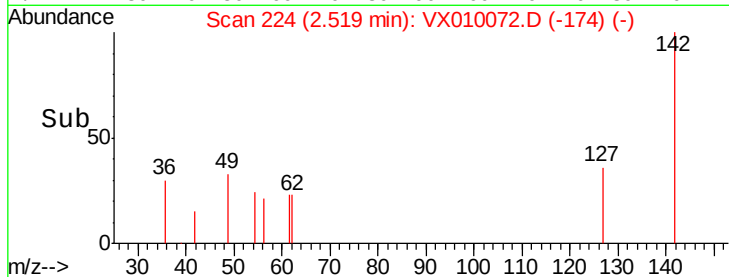
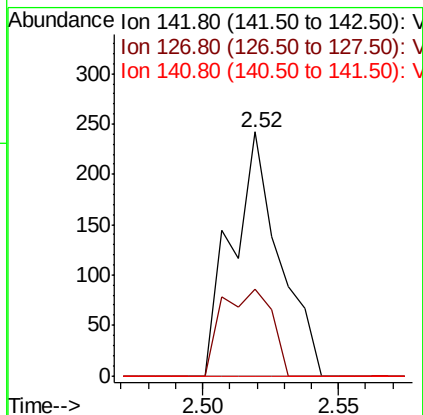
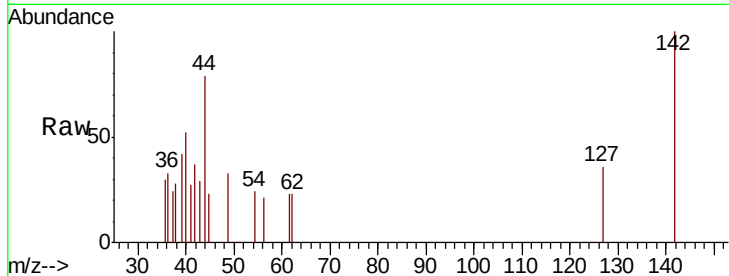




#10
Methyl Iodide
Concen: 4.779 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010072.D
Acq: 05 Jun 2019 13:21

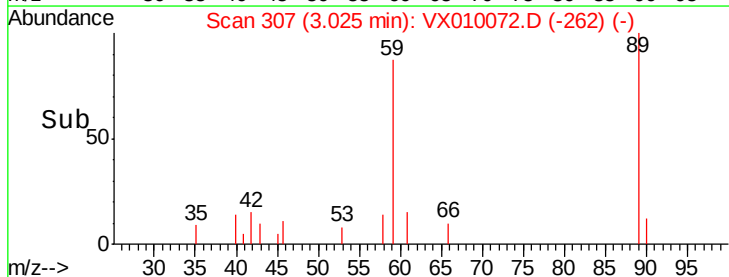
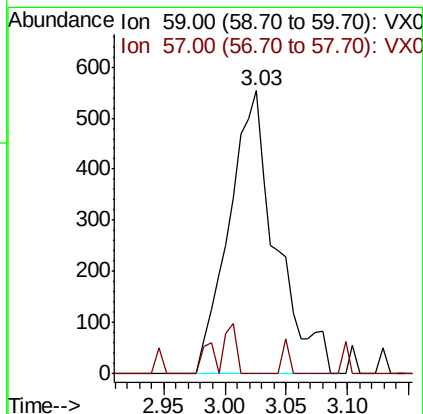
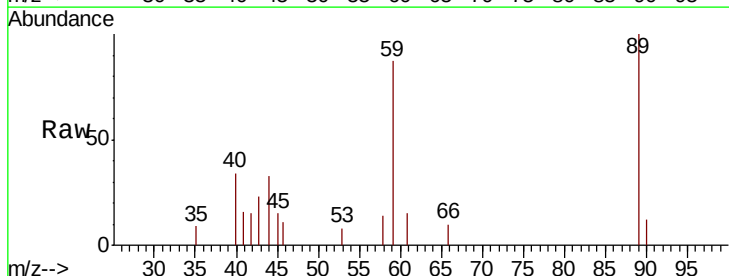
Instrument :
MSVOA_X
ClientSampled :

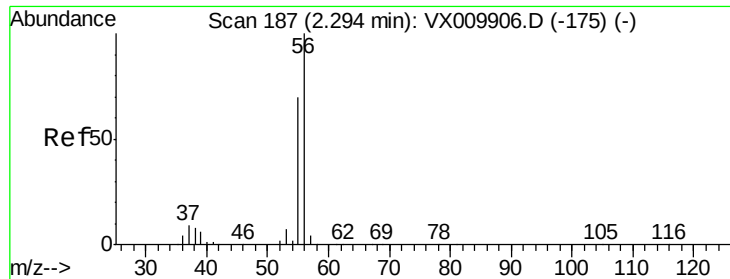
Tot Ion:142 Resp: 292
Ion Ratio Lower Upper
142 100
127 37.3 33.0 49.4
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.383 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX010072.D
Acq: 05 Jun 2019 13:21

Tgt Ion: 59 Resp: 1469
Ion Ratio Lower Upper
59 100
57 4.4 8.2 12.2#





#13

Acrolein

Concen: 21.394 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

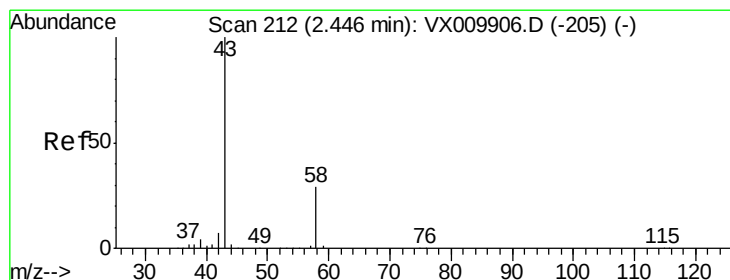
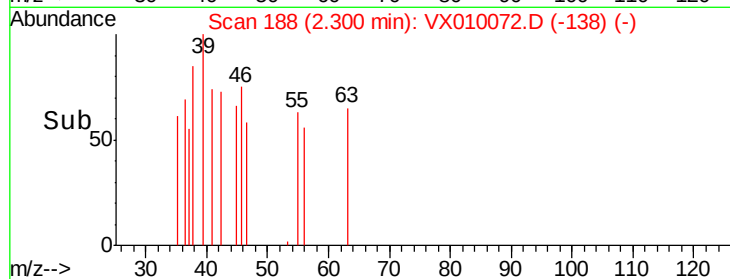
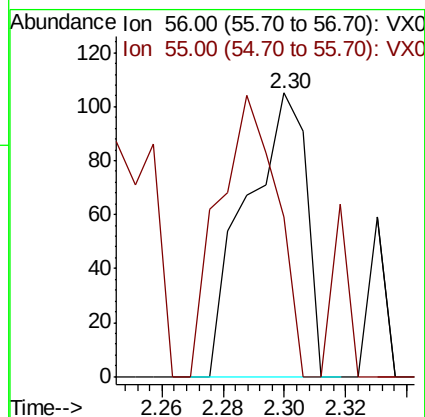
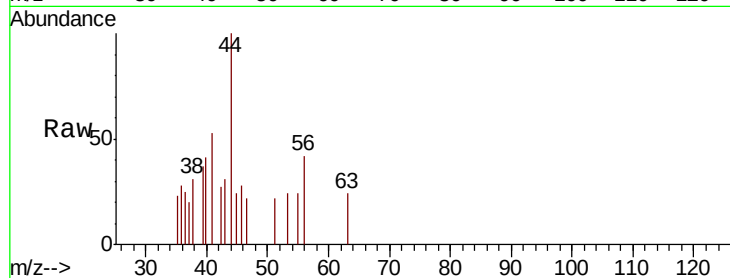
ClientSampled :

Tot Ion: 56 Resp: 142

Ion Ratio Lower Upper

56 100

55 97.2 57.0 85.4#



#16

Acetone

Concen: 5.390 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010072.D

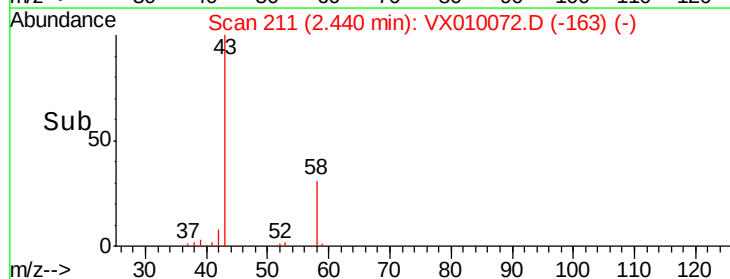
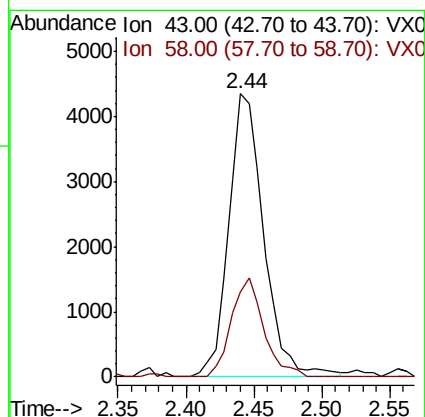
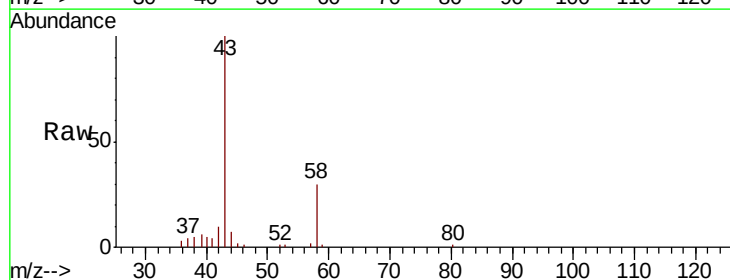
Acq: 05 Jun 2019 13:21

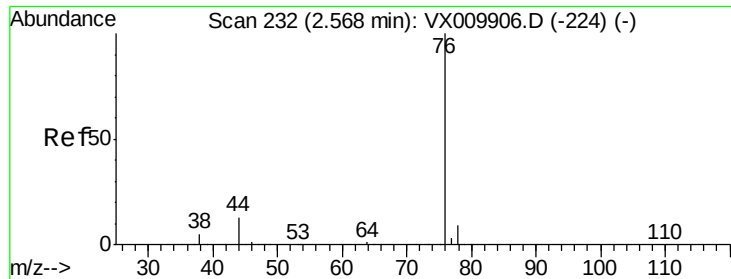
Tgt Ion: 43 Resp: 7801

Ion Ratio Lower Upper

43 100

58 29.9 23.2 34.8





#17

Carbon Disulfide

Concen: 0.540 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

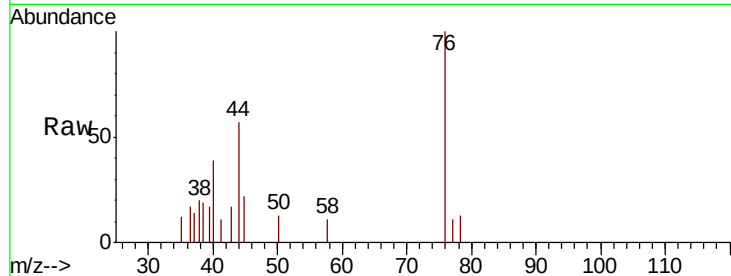
ClientSampled :

Tot Ion: 76 Resp: 852

Ion Ratio Lower Upper

76 100

78 13.3 7.0 10.6#

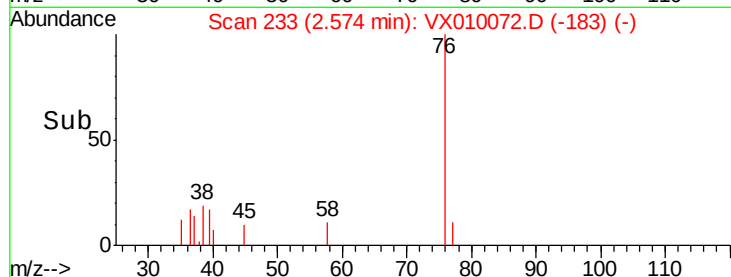


Abundance Ion 75.90 (75.60 to 76.60): VX0

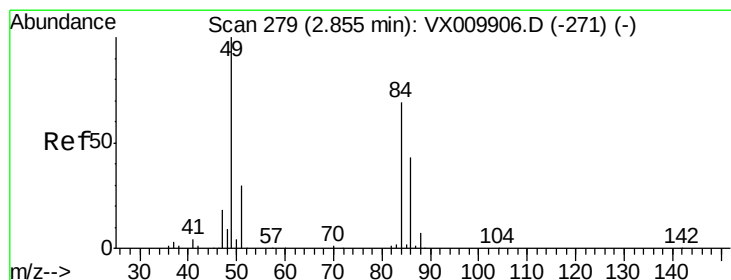
Ion 77.90 (77.60 to 78.60): VX0

2.57

Time-->



Time-->



#20

Methylene Chloride

Concen: 0.562 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Tgt Ion: 84 Resp: 1246

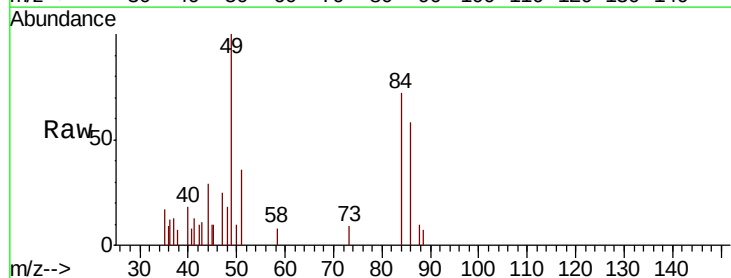
Ion Ratio Lower Upper

84 100

49 129.8 115.8 173.6

51 49.7 34.4 51.6

86 80.5 49.7 74.5#



Abundance Ion 83.90 (83.60 to 84.60): VX0

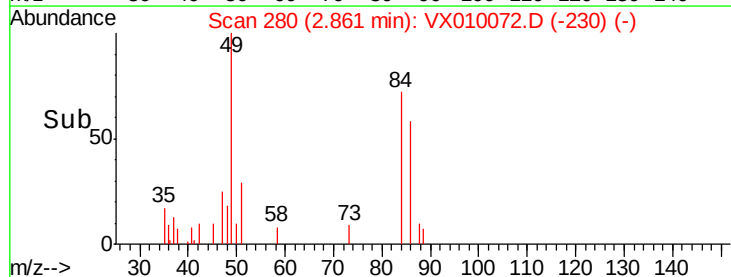
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

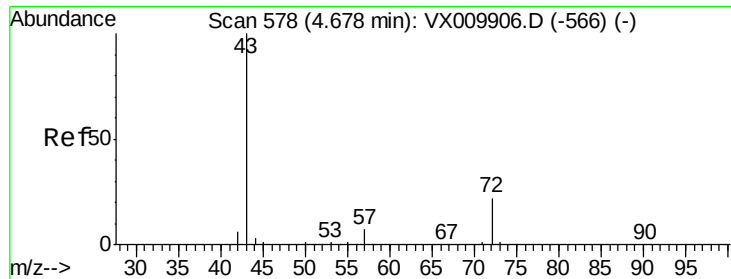
Ion 85.90 (85.60 to 86.60): VX0

2.86

Time-->



Time-->



#25

2-Butanone

Concen: 0.996 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

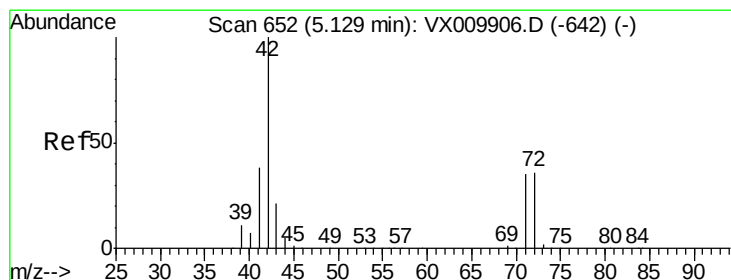
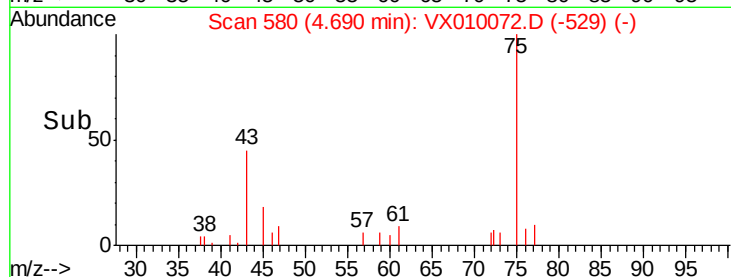
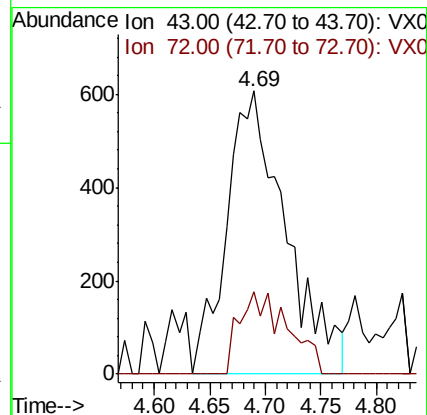
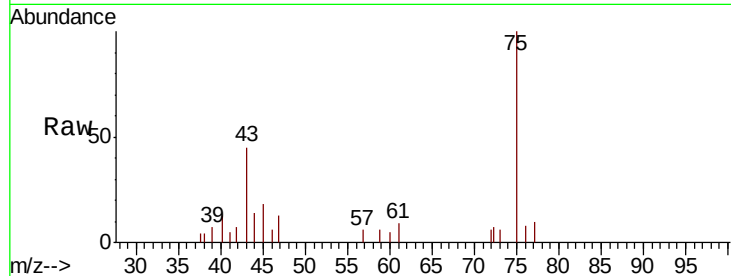
ClientSampleId :

Tot Ion: 43 Resp: 2246

Ion Ratio Lower Upper

43 100

72 29.3 17.5 26.3#



#29

Tetrahydrofuran

Concen: 1.253 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

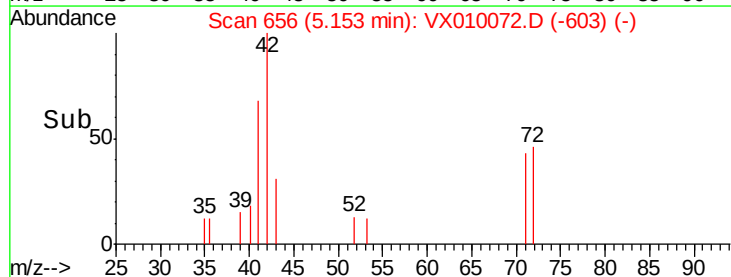
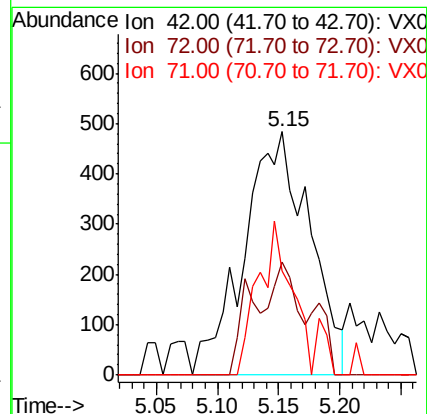
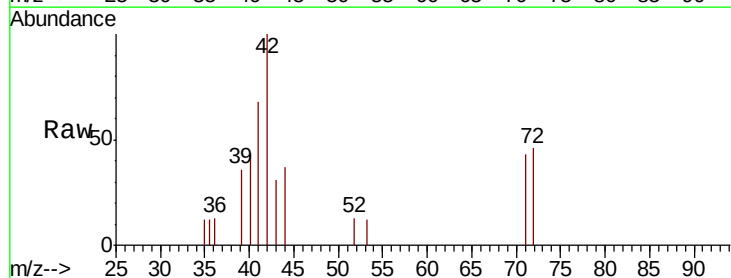
Tgt Ion: 42 Resp: 1812

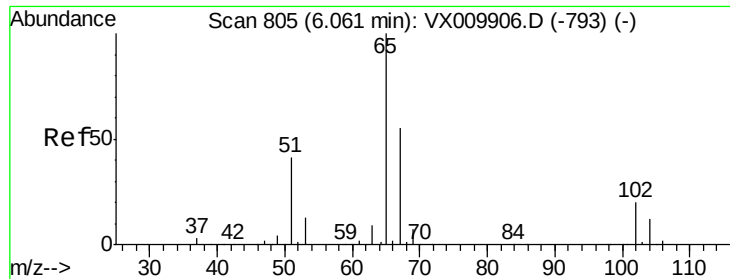
Ion Ratio Lower Upper

42 100

72 10.5 29.2 43.8#

71 31.8 27.6 41.4





#33

1,2-Dichloroethane-d4

Concen: 46.960 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

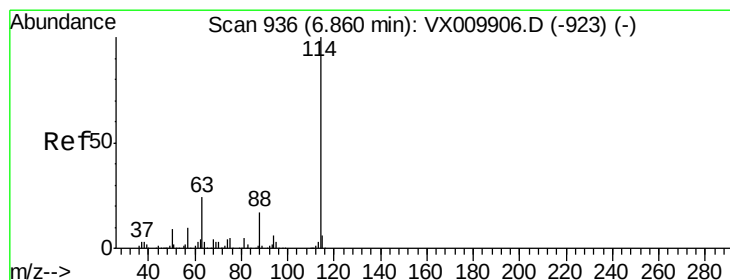
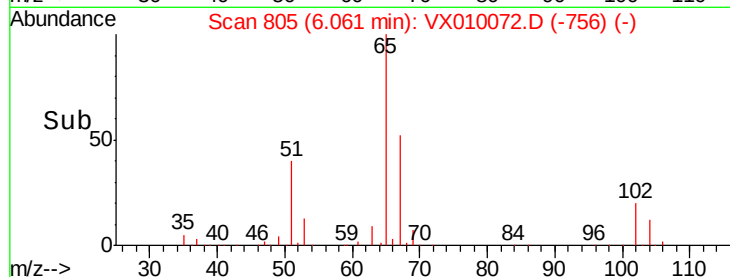
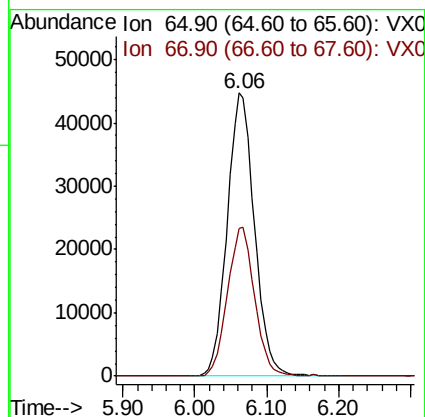
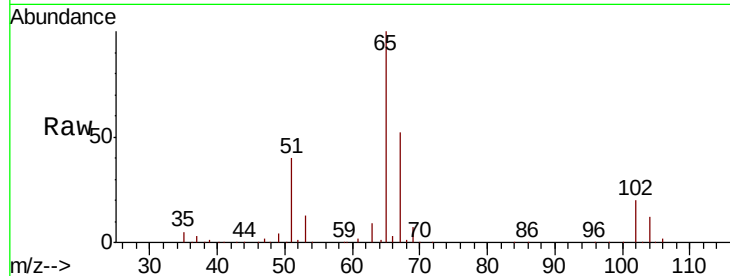
ClientSampled :

Tot Ion: 65 Resp: 117637

Ion Ratio Lower Upper

65 100

67 52.3 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

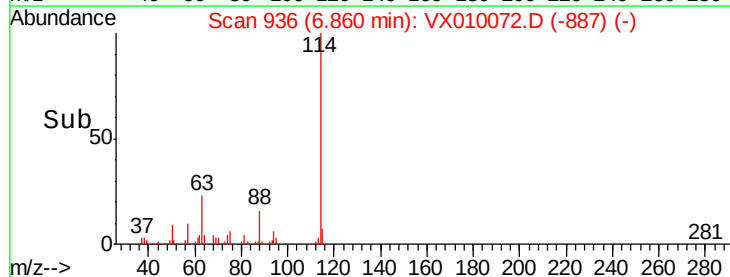
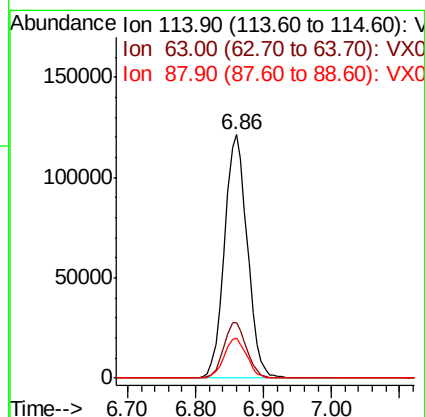
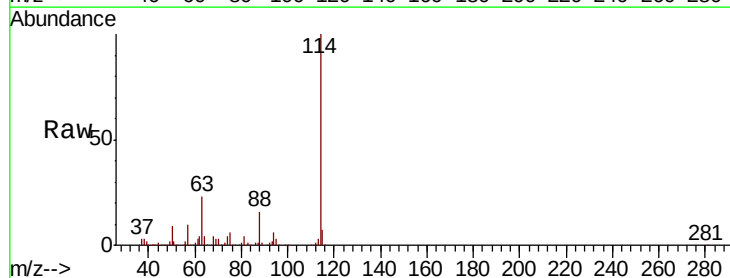
Tgt Ion: 114 Resp: 282601

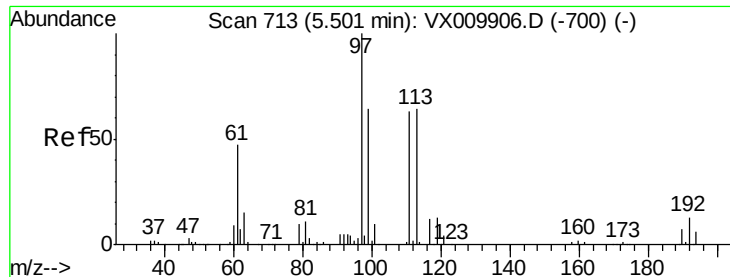
Ion Ratio Lower Upper

114 100

63 23.0 0.0 47.4

88 16.3 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.570 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

ClientSampleId :

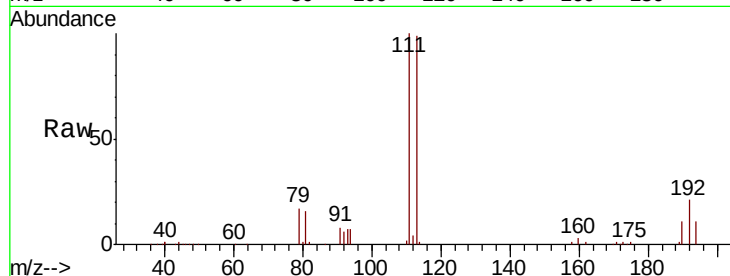
Tot Ion:113 Resp: 86296

Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.2

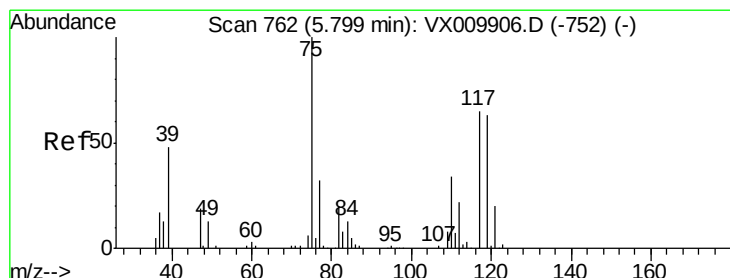
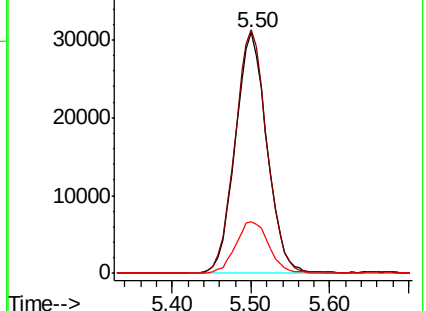
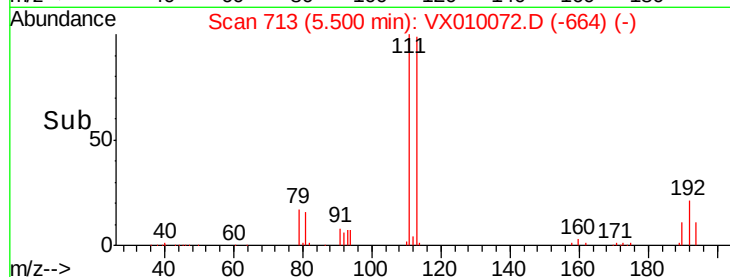
192 22.6 17.1 25.7



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: 4.821 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

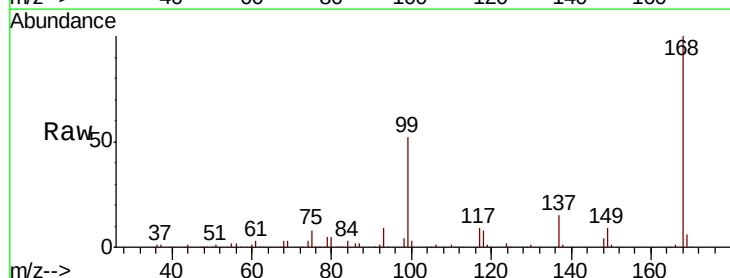
Tgt Ion: 75 Resp: 13822

Ion Ratio Lower Upper

75 100

110 8.9 16.7 50.1#

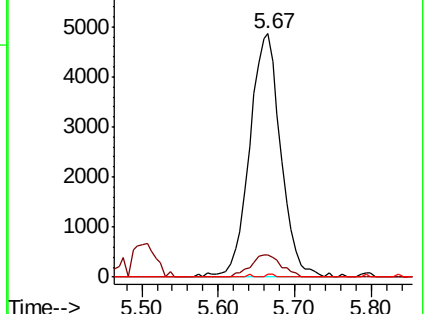
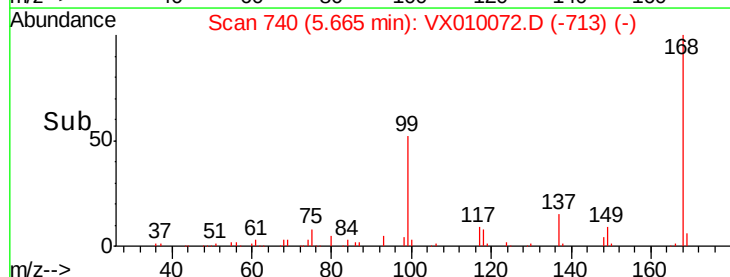
77 0.3 25.0 37.4#

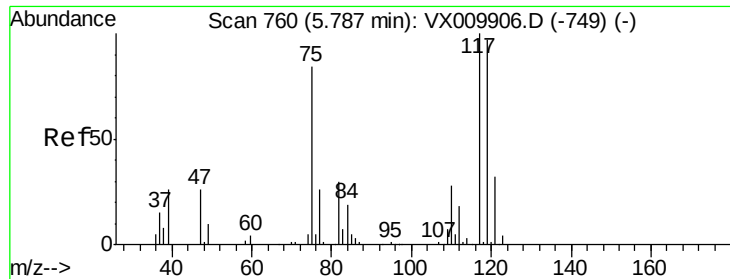


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.528 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

ClientSampleId :

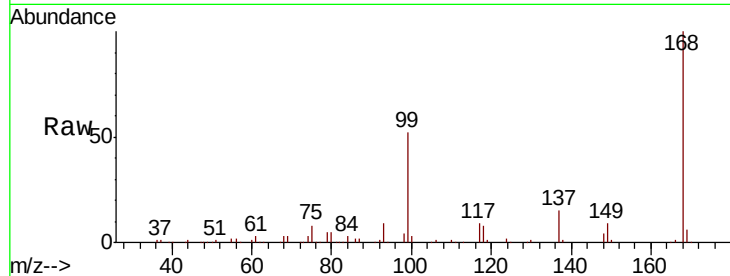
Tot Ion:117 Resp: 16175

Ion Ratio Lower Upper

117 100

119 6.1 77.3 115.9#

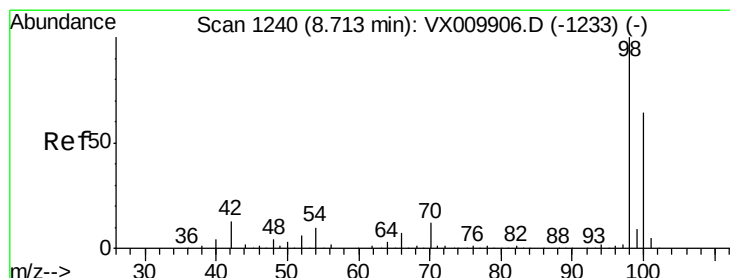
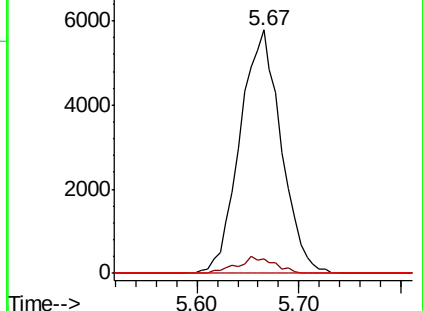
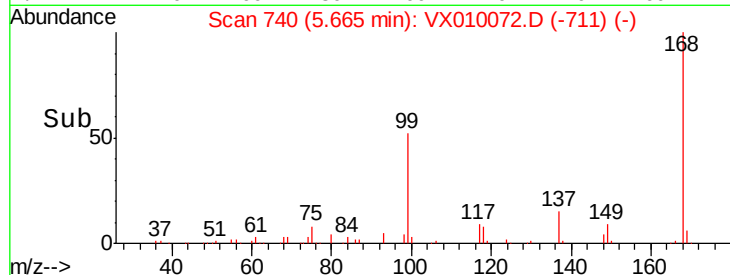
121 0.0 25.4 38.0#



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



#50

Toluene-d8

Concen: 49.435 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX010072.D

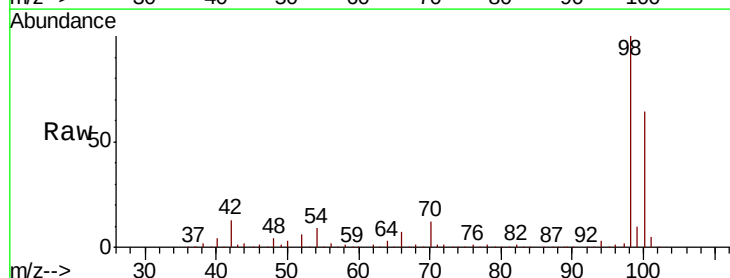
Acq: 05 Jun 2019 13:21

Tgt Ion: 98 Resp: 356668

Ion Ratio Lower Upper

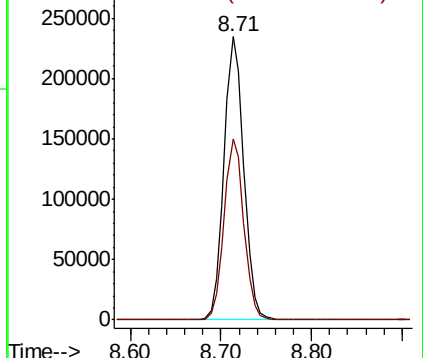
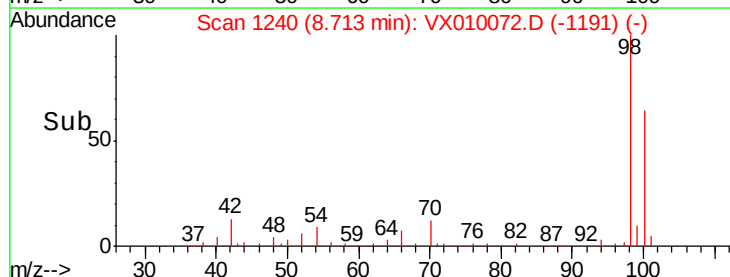
98 100

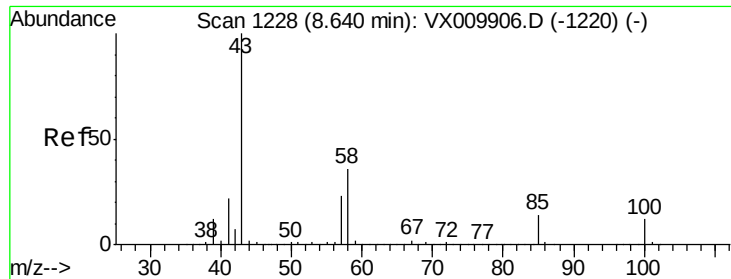
100 64.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.274 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

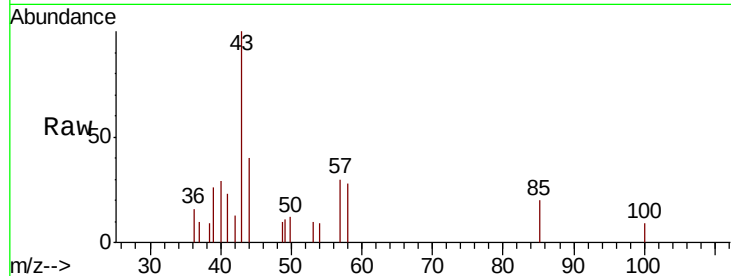
ClientSampleId :

Tot Ion: 43 Resp: 1147

Ion Ratio Lower Upper

43 100

58 36.0 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

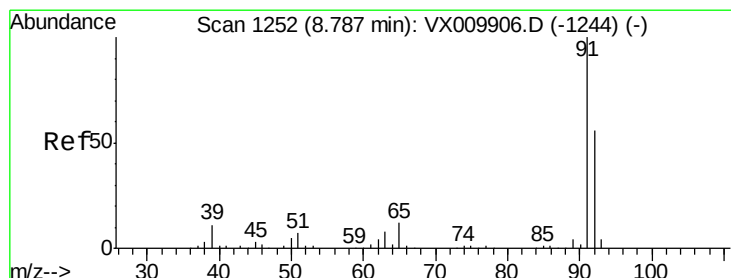
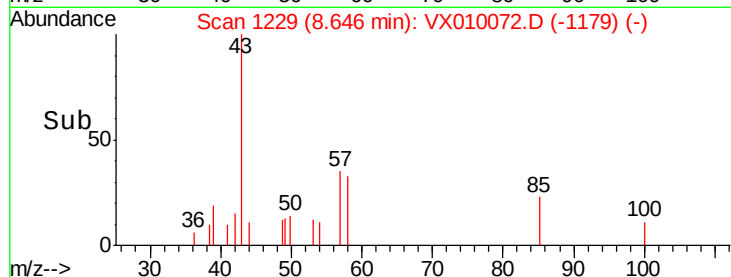
1000

500

0

8.60 8.65 8.70

Time-->



#52

Toluene

Concen: 1.736 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX010072.D

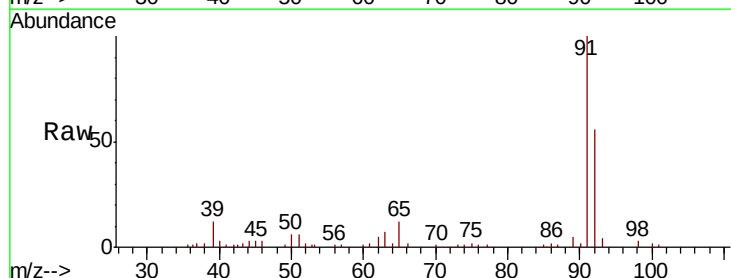
Acq: 05 Jun 2019 13:21

Tgt Ion: 92 Resp: 8964

Ion Ratio Lower Upper

92 100

91 179.3 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

12000

10000

8000

6000

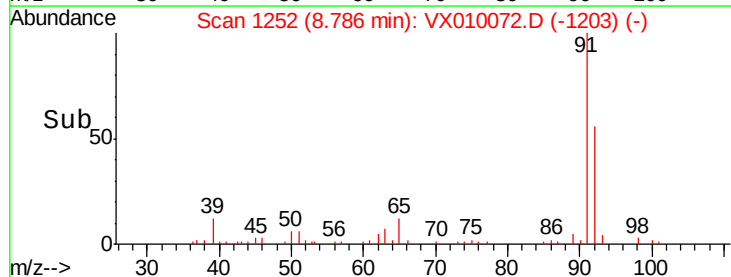
4000

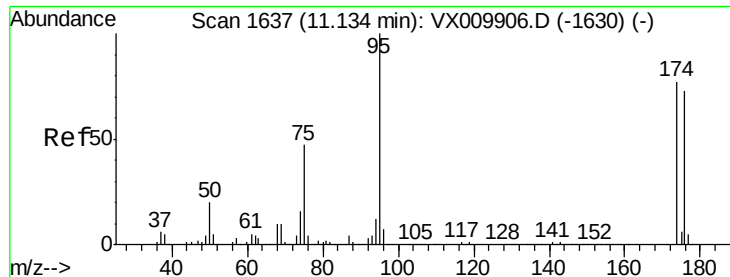
2000

0

8.70 8.75 8.80 8.85

Time-->





#62

4-Bromofluorobenzene

Concen: 46.963 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

ClientSampleId :

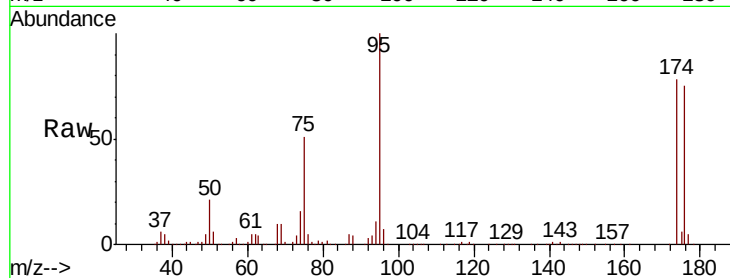
Tot Ion: 95 Resp: 121702

Ion Ratio Lower Upper

95 100

174 83.7 0.0 160.4

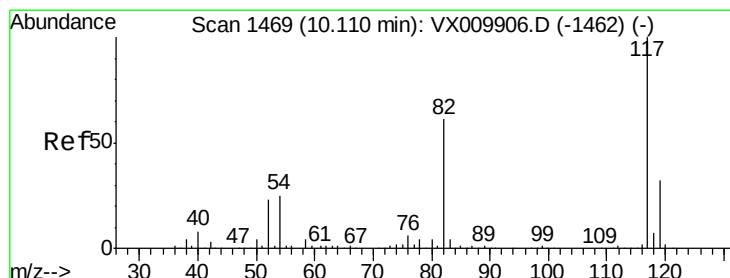
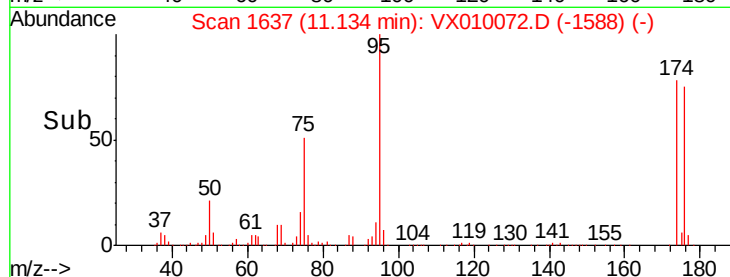
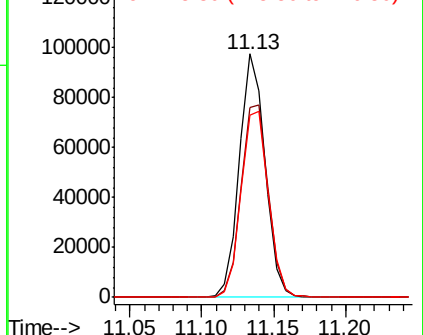
176 81.4 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

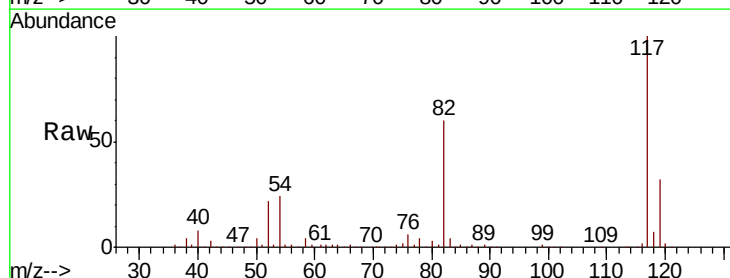
Tgt Ion: 117 Resp: 253944

Ion Ratio Lower Upper

117 100

82 60.4 49.2 73.8

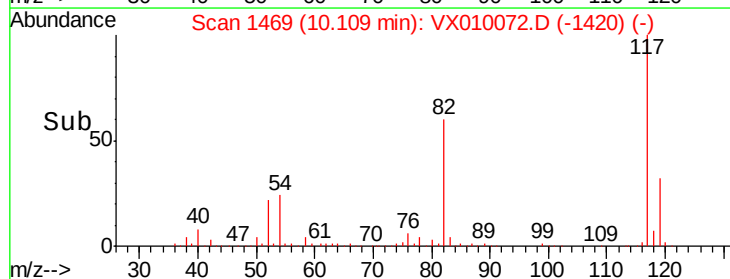
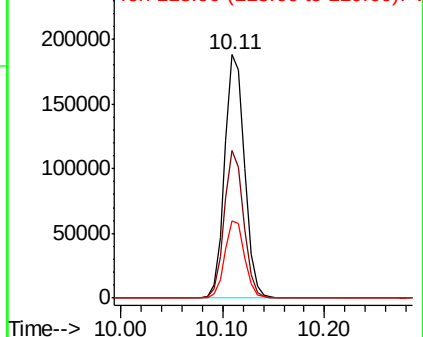
119 31.9 25.2 37.8

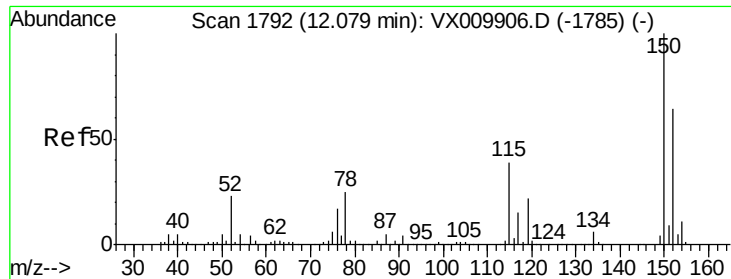


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

ClientSampleId :

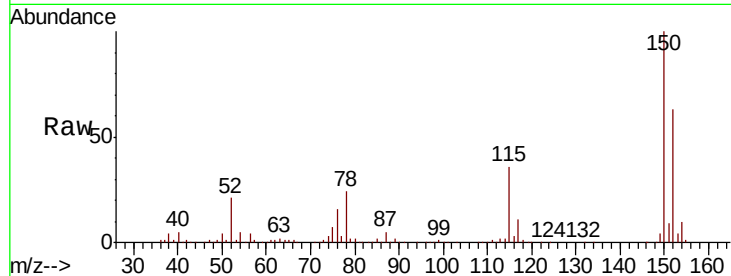
Tot Ion:152 Resp: 113506

Ion Ratio Lower Upper

152 100

115 57.5 41.4 124.2

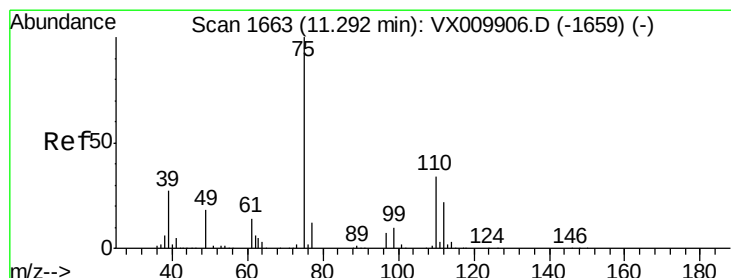
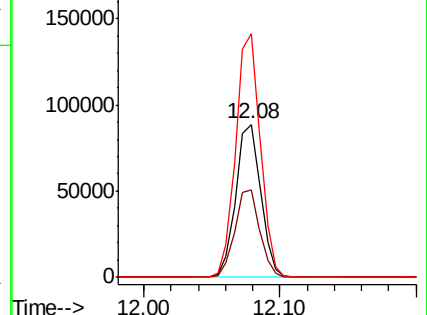
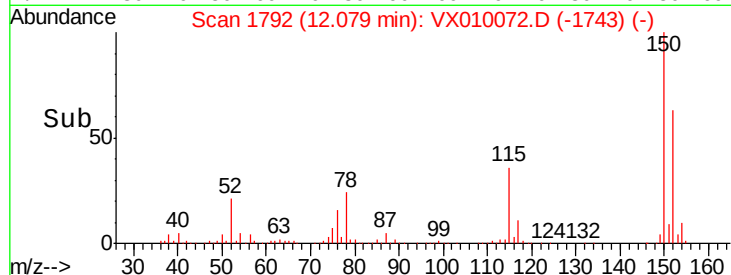
150 157.0 0.0 345.2



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: 22.890 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010072.D

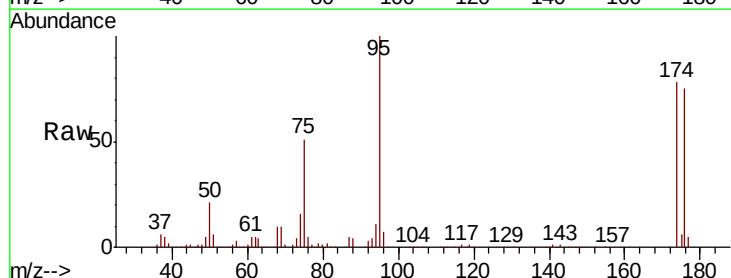
Acq: 05 Jun 2019 13:21

Tgt Ion: 75 Resp: 62129

Ion Ratio Lower Upper

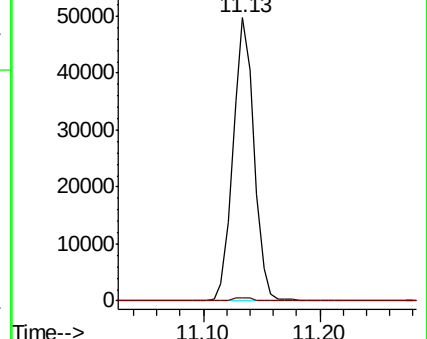
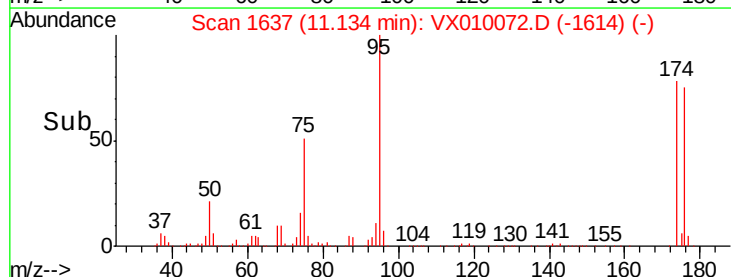
75 100

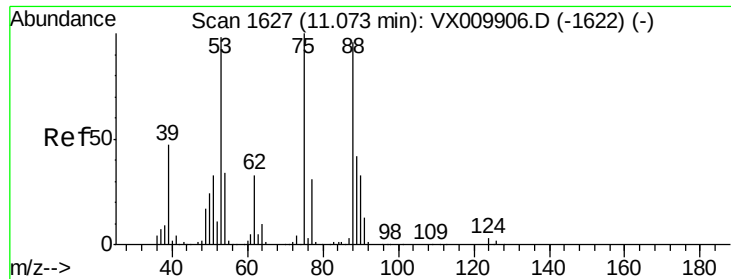
77 1.2 22.1 66.1#



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: 56.633 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010072.D

Acq: 05 Jun 2019 13:21

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 62129

Ion Ratio Lower Upper

75 100

53 0.2 79.8 119.6#

89 0.0 34.2 51.4#

