

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\
 Data File : VX005316.D
 Acq On : 13 Oct 2018 02:17
 Operator : JC/MD
 Sample : J5393-11DL 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 13 04:08:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	268260	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	380360	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	341865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	165830	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	153709	51.63	ug/l	0.00
Spiked Amount			Recovery	=	103.26%	
35) Dibromofluoromethane	5.50	113	122933	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
50) Toluene-d8	8.71	98	460112	53.20	ug/l	0.00
Spiked Amount			Recovery	=	106.40%	
62) 4-Bromofluorobenzene	11.14	95	148589	45.73	ug/l	0.00
Spiked Amount			Recovery	=	91.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	730	0.999	ug/l #	70
6) Chloroethane	1.68	64	87	0.378	ug/l #	44
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1622	0.684	ug/l	95
10) Methyl Iodide	2.51	142	322	2.606	ug/l #	66
11) Tert butyl alcohol	3.02	59	1585	1.887	ug/l #	76
12) 1,1-Dichloroethene	2.37	96	510	0.217	ug/l #	69
13) Acrolein	2.30	56	19	Below Cal	#	1
16) Acetone	2.45	43	1531	0.889	ug/l	92
20) Methylene Chloride	2.86	84	2475	Below Cal		91
29) Tetrahydrofuran	5.17	42	527	0.328	ug/l #	59
31) Cyclohexane	5.66	56	4772	1.166	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18464	5.012	ug/l #	49
38) Carbon Tetrachloride	5.66	117	23646	6.388	ug/l #	16
39) Methylcyclohexane	7.21	83	1464	0.367	ug/l #	1
44) Trichloroethene	7.21	130	118346	41.842	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	74395	23.128	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	74395	70.275	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

Instrument :

MSVOA_X

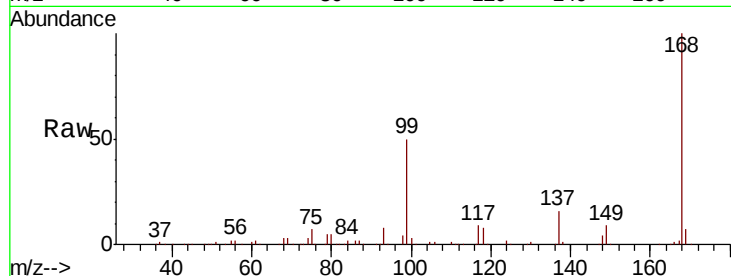
ClientSampleId :

Tot Ion:168 Resp: 268260

Ion Ratio Lower Upper

168 100

99 49.9 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

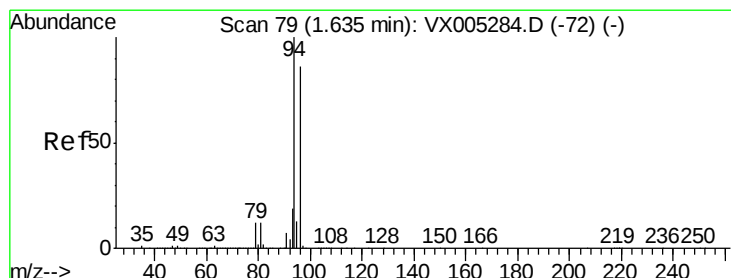
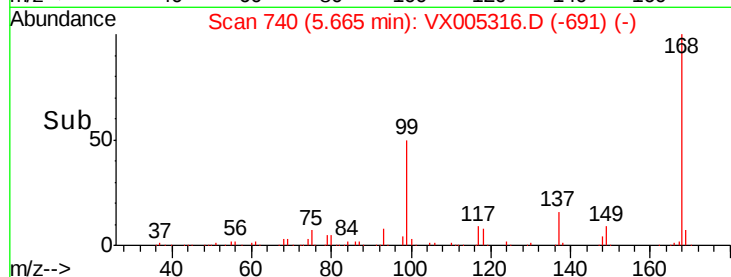
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.999 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005316.D

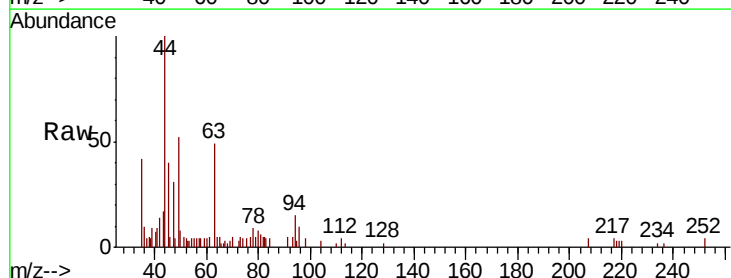
Acq: 13 Oct 2018 02:17

Tgt Ion: 94 Resp: 730

Ion Ratio Lower Upper

94 100

96 64.7 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

500

400

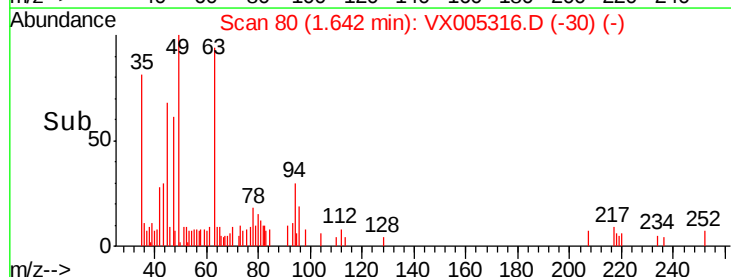
300

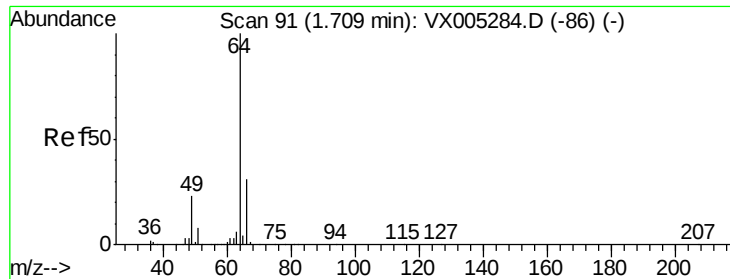
200

100

0

Time-->





#6

Chloroethane

Concen: 0.378 ug/l

RT: 1.68 min Scan# 87

Delta R.T. -0.02 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

Instrument :

MSVOA_X

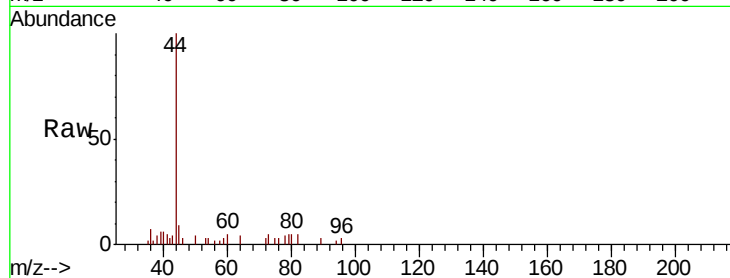
ClientSampleId :

Tot Ion: 64 Resp: 87

Ion Ratio Lower Upper

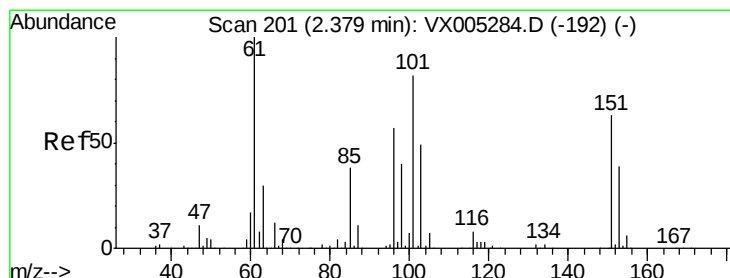
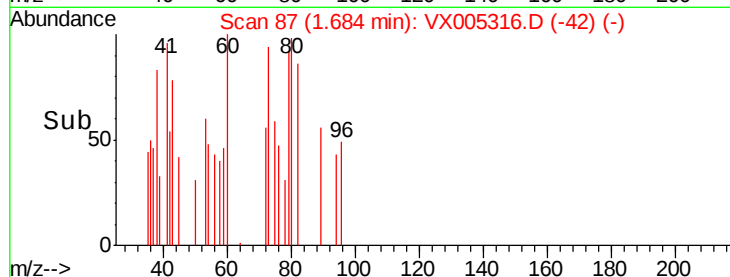
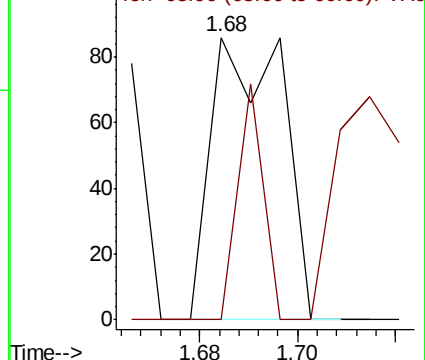
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.684 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

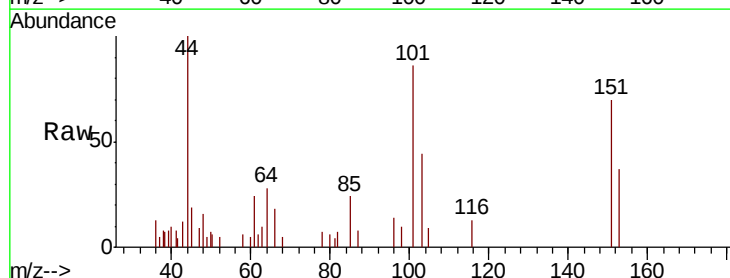
Tgt Ion: 101 Resp: 1622

Ion Ratio Lower Upper

101 100

85 48.9 34.2 51.4

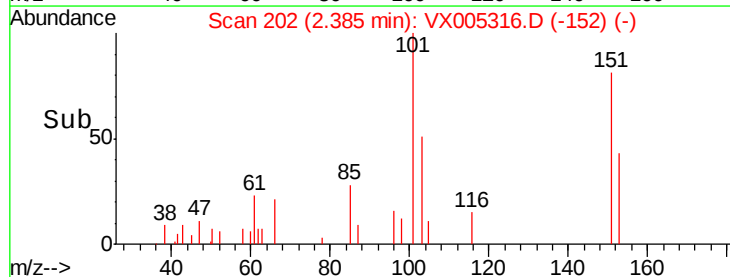
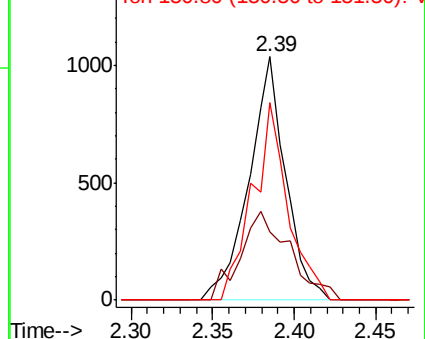
151 78.4 65.0 97.6

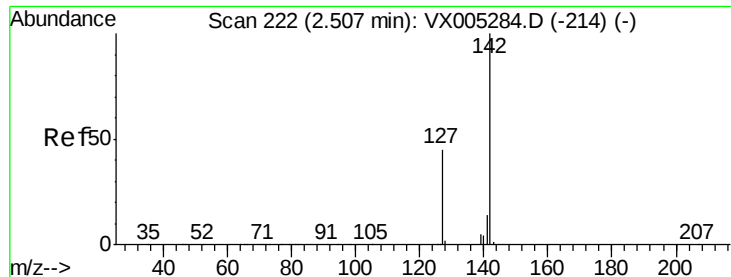


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

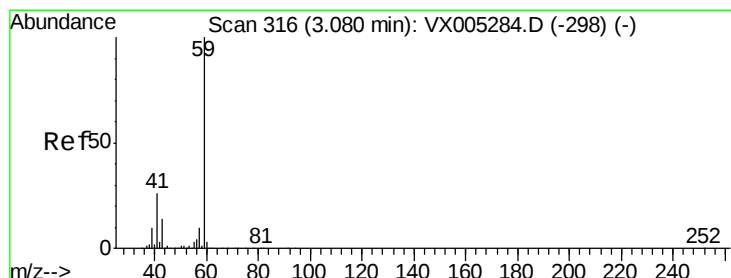
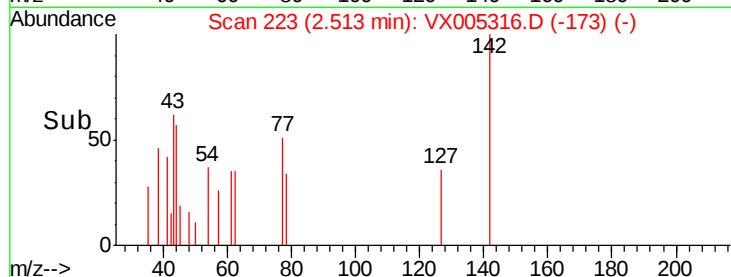
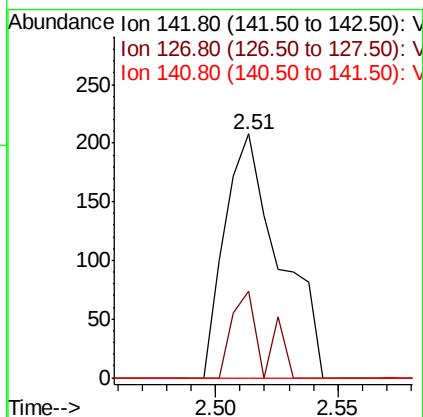
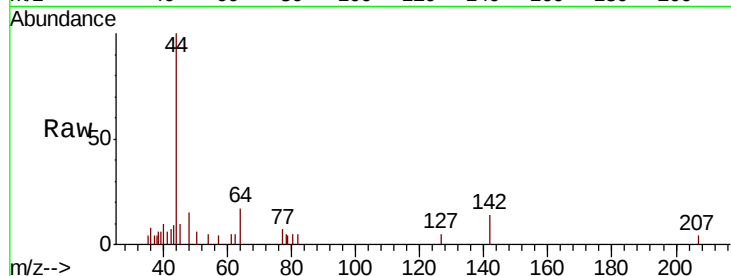




#10
Methvl Iodide
Concen: 2.606 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005316.D
Acq: 13 Oct 2018 02:17

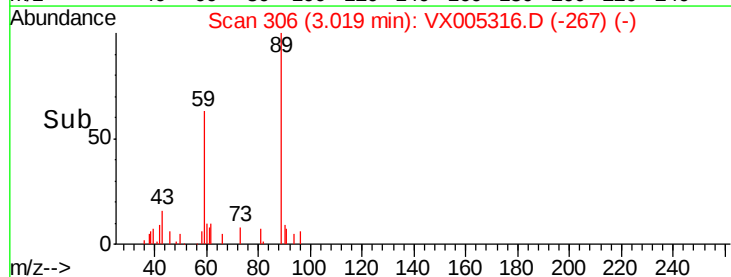
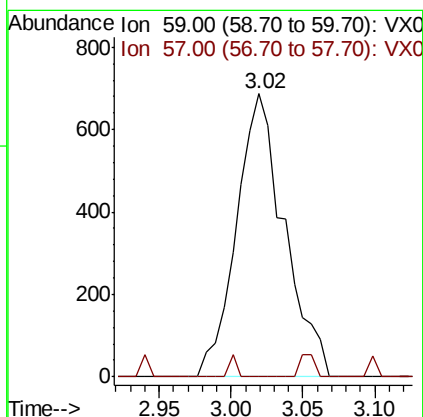
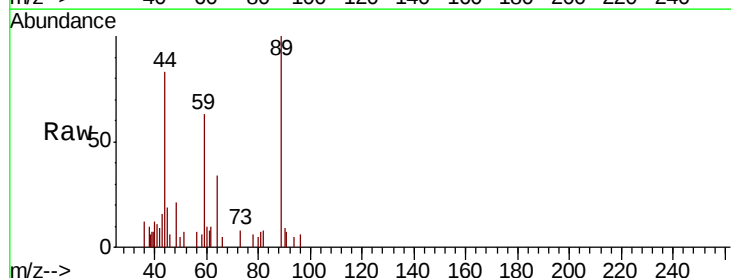
Instrument :
MSVOA_X
ClientSampled :

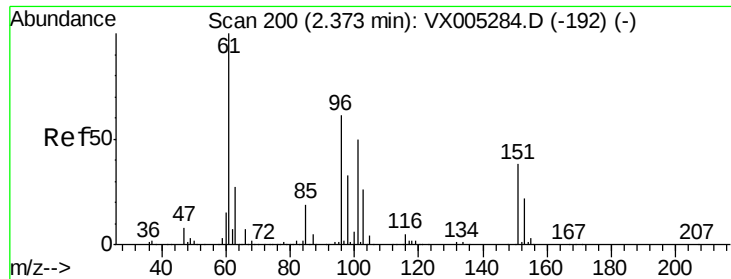
Tot Ion:142 Resp: 322
Ion Ratio Lower Upper
142 100
127 20.5 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.887 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005316.D
Acq: 13 Oct 2018 02:17

Tgt Ion: 59 Resp: 1585
Ion Ratio Lower Upper
59 100
57 1.3 8.2 12.4#

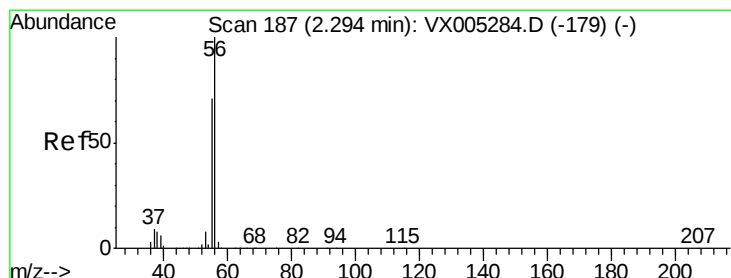
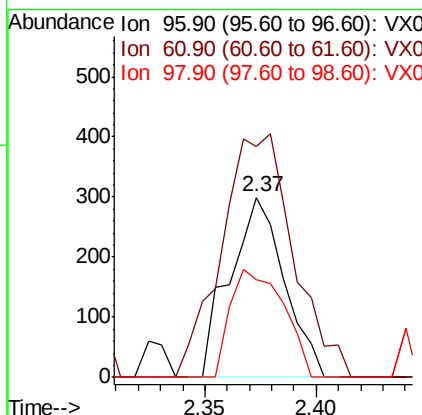
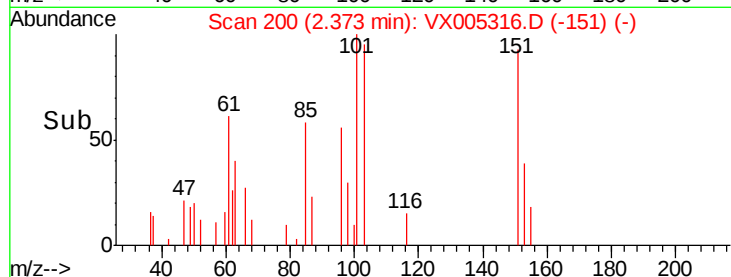
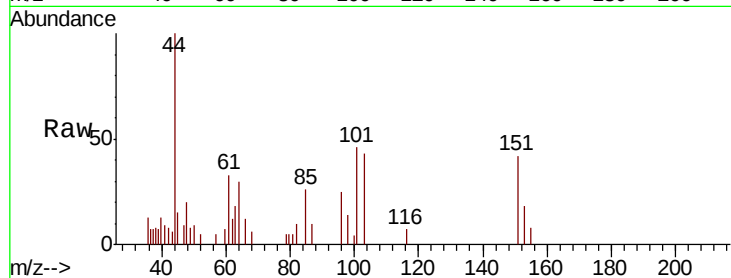




#12
 1,1-Dichloroethene
 Concen: 0.217 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.00 min
 Lab File: VX005316.D
 Acq: 13 Oct 2018 02:17

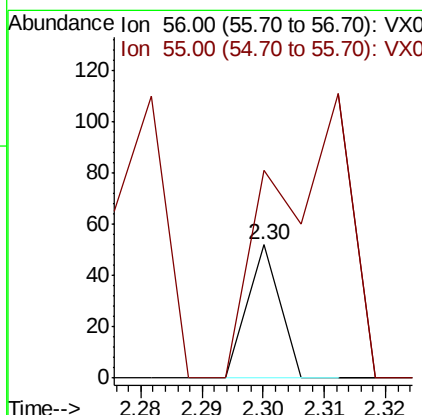
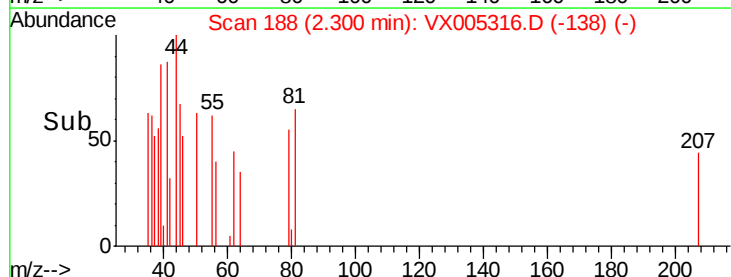
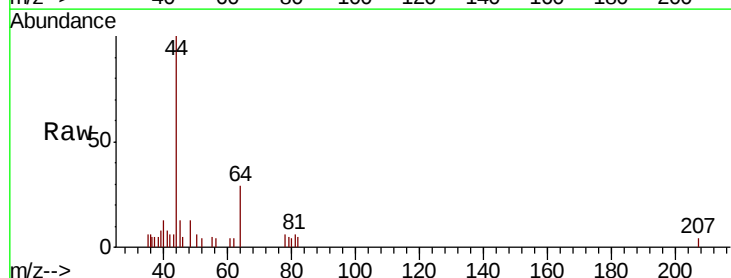
Instrument :
 MSVOA_X
 ClientSampleId :

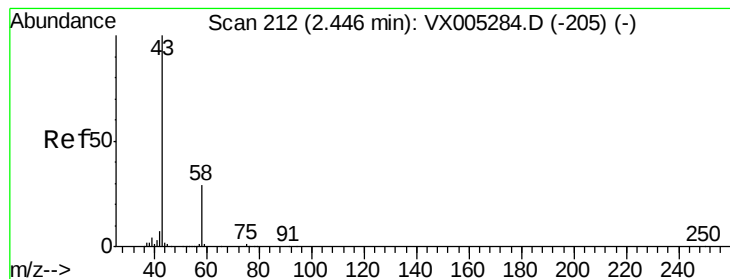
Tot Ion: 96 Resp: 510
 Ion Ratio Lower Upper
 96 100
 61 111.0 128.8 193.2#
 98 54.2 52.2 78.2



#13
 Acrolein
 Concen: Below Cal
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX005316.D
 Acq: 13 Oct 2018 02:17

Tgt Ion: 56 Resp: 19
 Ion Ratio Lower Upper
 56 100
 55 484.2 54.7 82.1#





#16

Acetone

Concen: 0.889 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

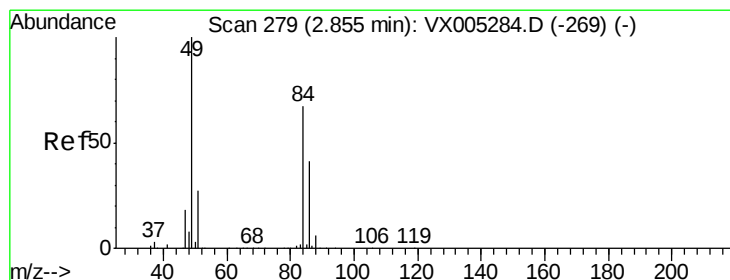
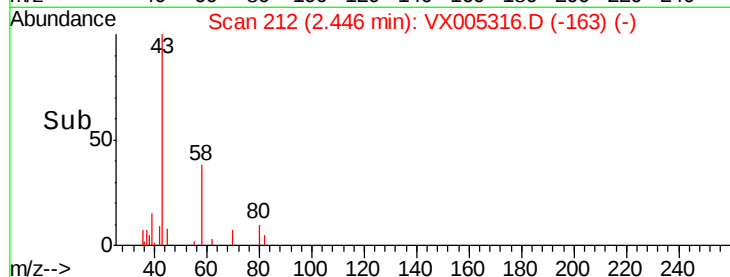
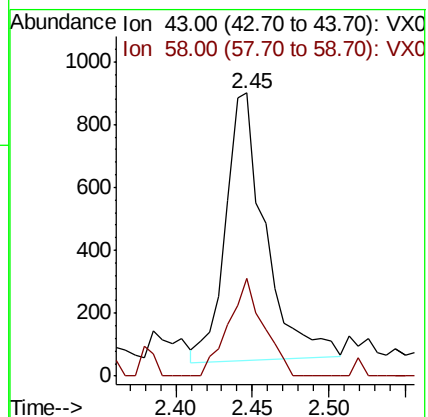
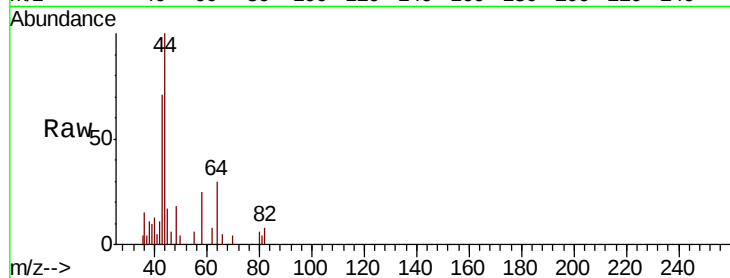
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1531

Ion Ratio Lower Upper

43 100

58 37.4 26.2 39.4



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

Tgt Ion: 84 Resp: 2475

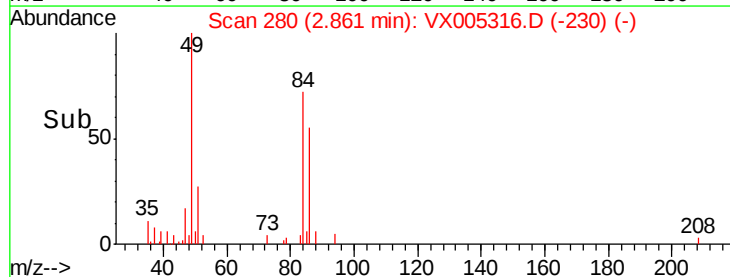
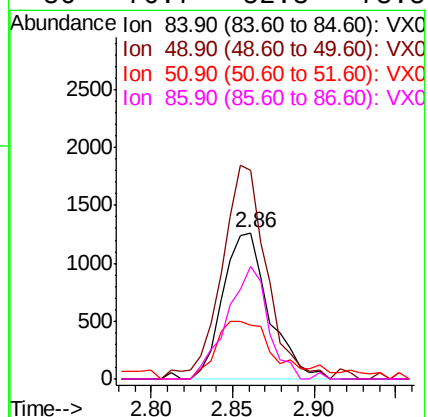
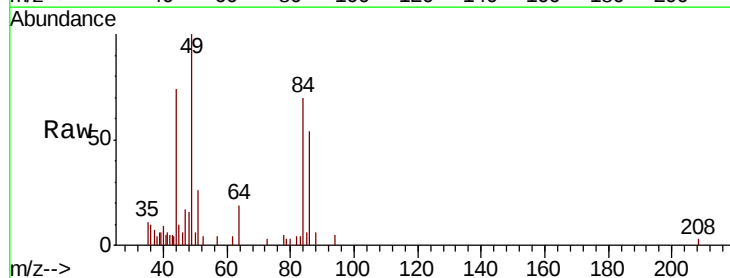
Ion Ratio Lower Upper

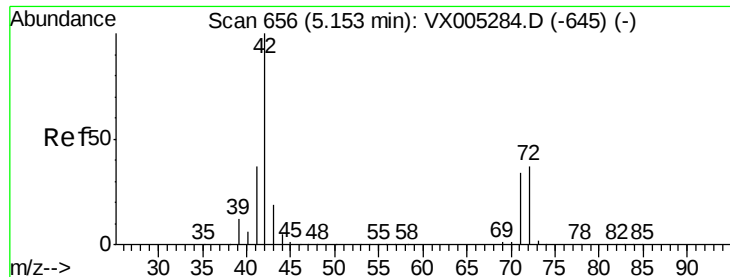
84 100

49 136.8 101.2 151.8

51 37.1 29.5 44.3

86 76.7 52.3 78.5

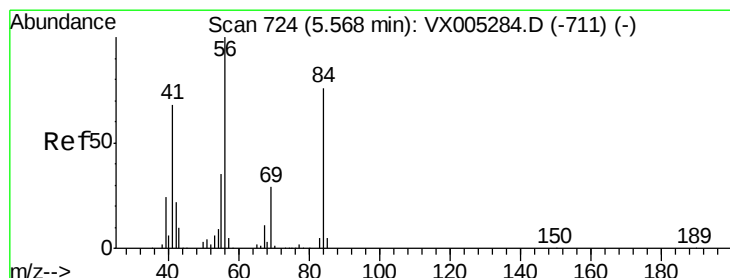
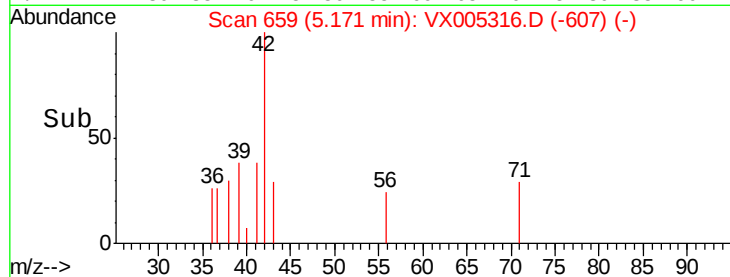
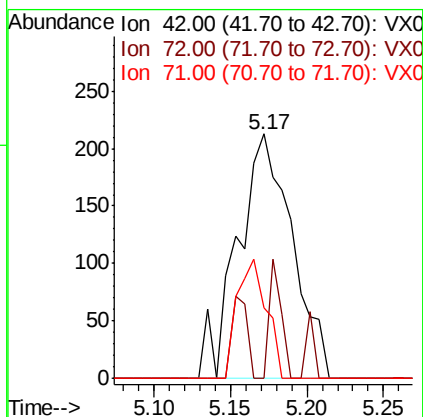
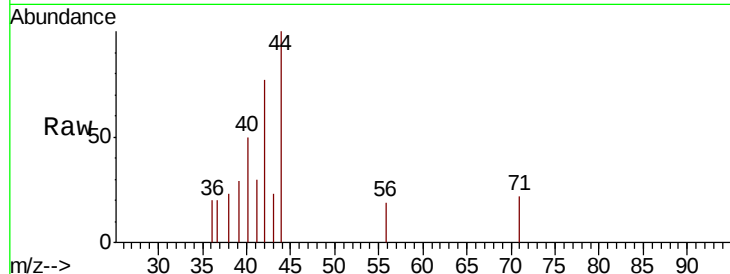




#29
Tetrahydrofuran
Concen: 0.328 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX005316.D
Acq: 13 Oct 2018 02:17

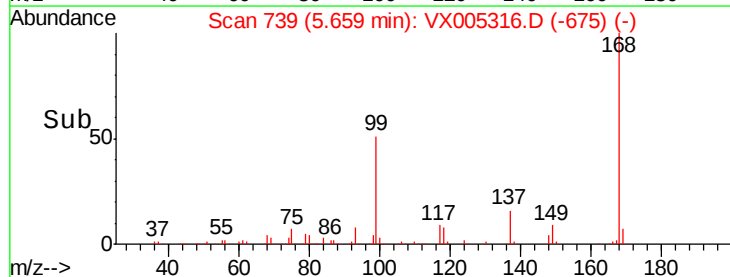
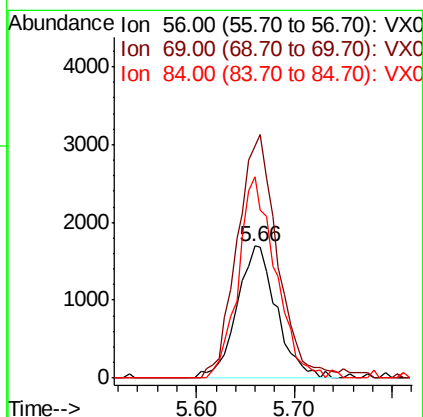
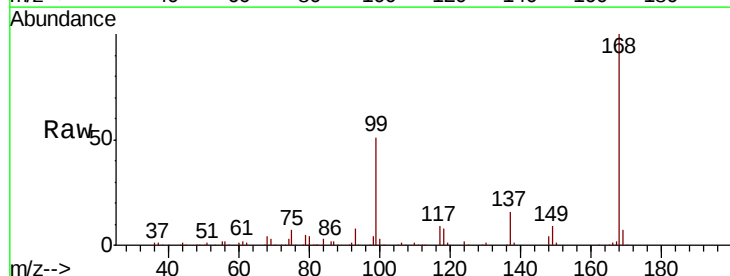
Instrument :
MSVOA_X
ClientSampled :

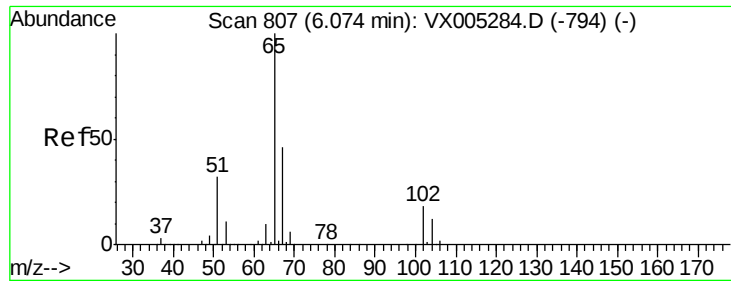
Tot Ion: 42 Resp: 527
Ion Ratio Lower Upper
42 100
72 11.2 37.4 56.0#
71 26.0 34.5 51.7#



#31
Cyclohexane
Concen: 1.166 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005316.D
Acq: 13 Oct 2018 02:17

Tgt Ion: 56 Resp: 4772
Ion Ratio Lower Upper
56 100
69 175.7 25.4 38.2#
84 152.3 71.4 107.2#

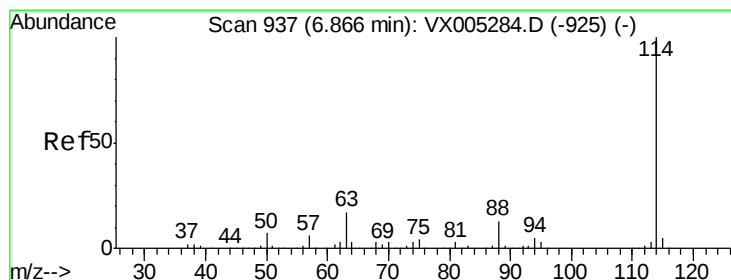
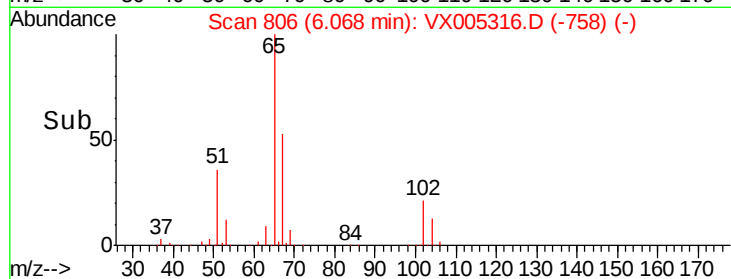
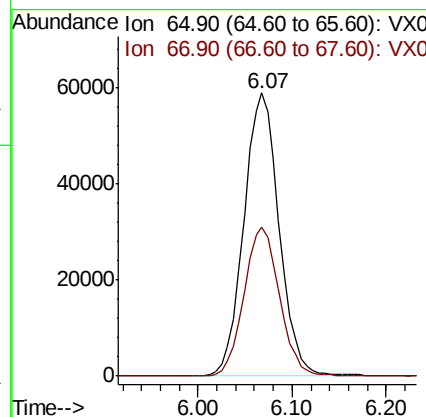
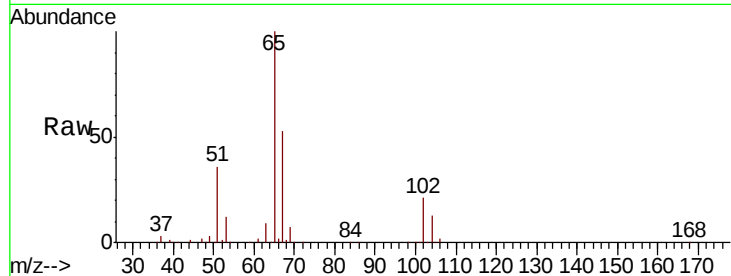




#33
 1,2-Dichloroethane-d4
 Concen: 51.627 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005316.D
 Acq: 13 Oct 2018 02:17

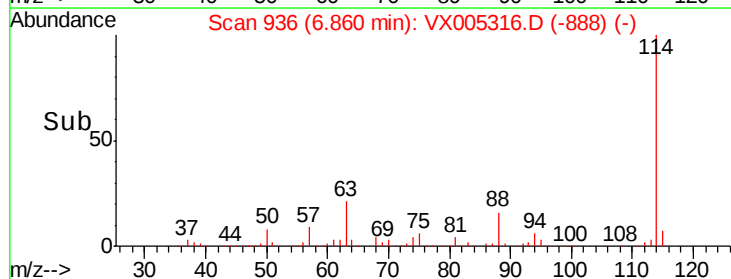
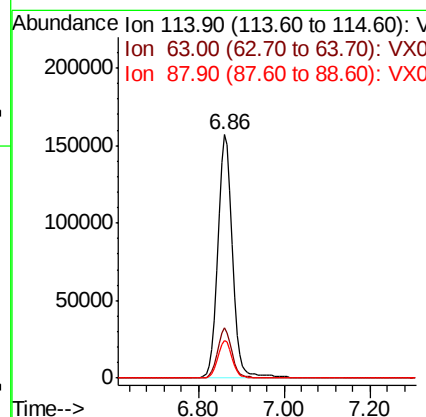
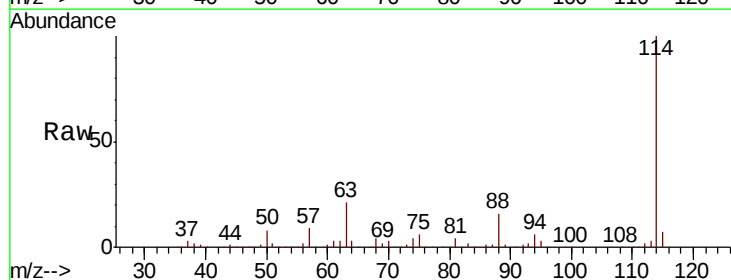
Instrument :
 MSVOA_X
 ClientSampleId :

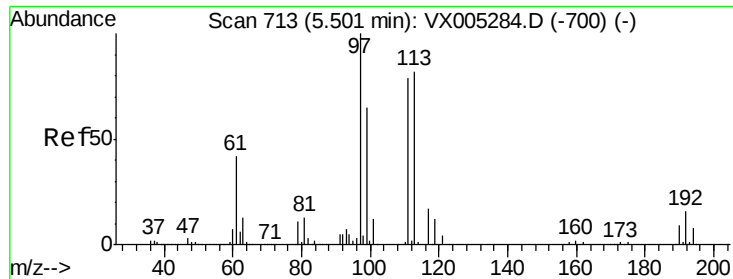
Tot Ion: 65 Resp: 153709
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005316.D
 Acq: 13 Oct 2018 02:17

Tgt Ion: 114 Resp: 380360
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 39.0
 88 15.5 0.0 30.4

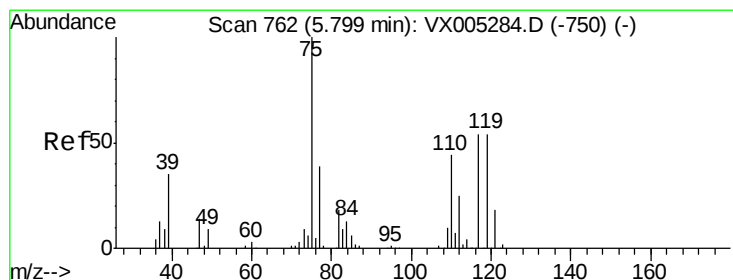
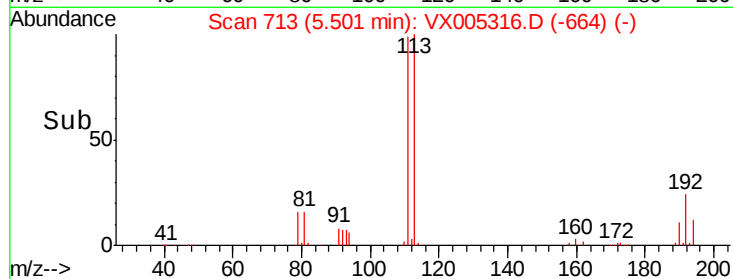
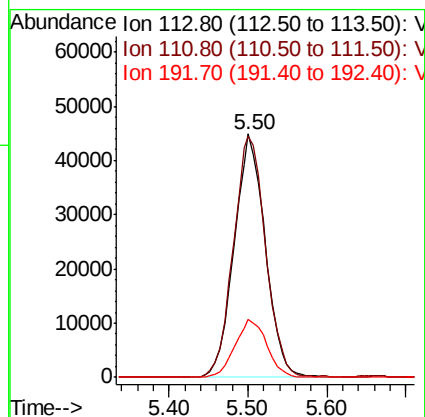
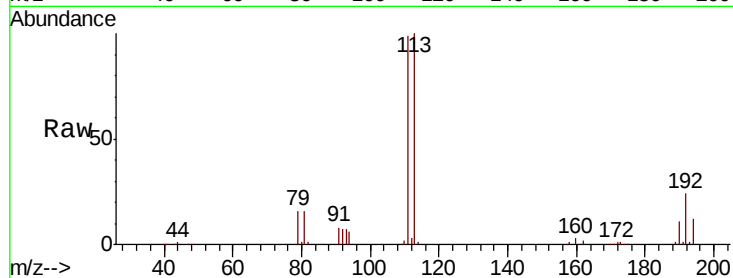




#35
 Dibromofluoromethane
 Concen: 48.798 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005316.D
 Acq: 13 Oct 2018 02:17

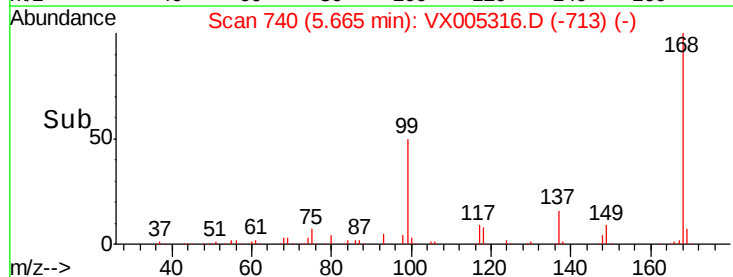
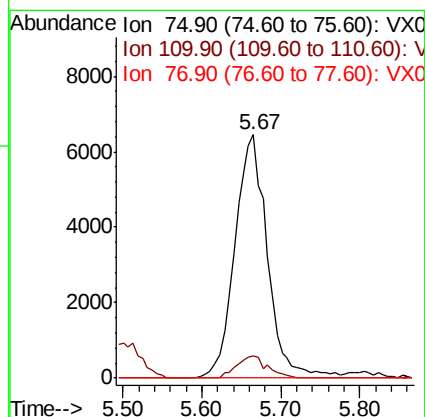
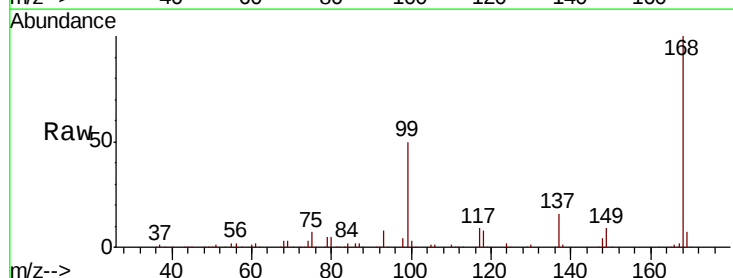
Instrument :
 MSVOA_X
 ClientSampleId :

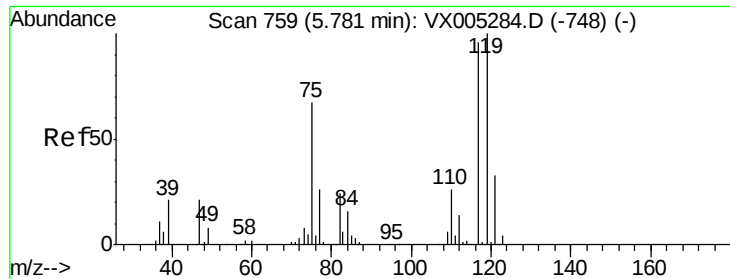
Tot Ion:113 Resp: 122933
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.4 123.6
 192 24.3 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 5.012 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005316.D
 Acq: 13 Oct 2018 02:17

Tgt Ion: 75 Resp: 18464
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.388 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

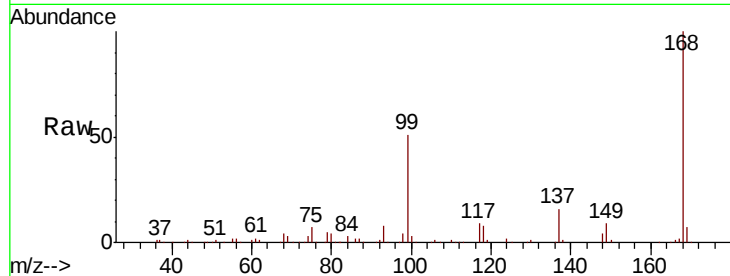
Tot Ion:117 Resp: 23646

Ion Ratio Lower Upper

117 100

119 6.5 78.8 118.2#

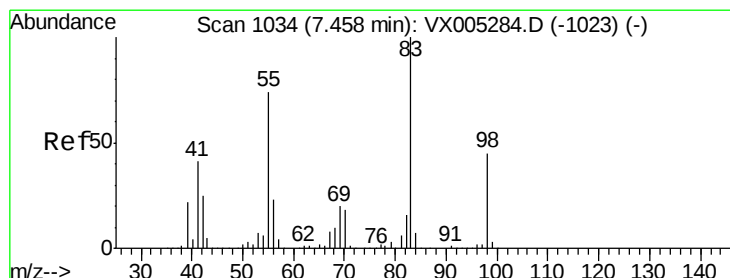
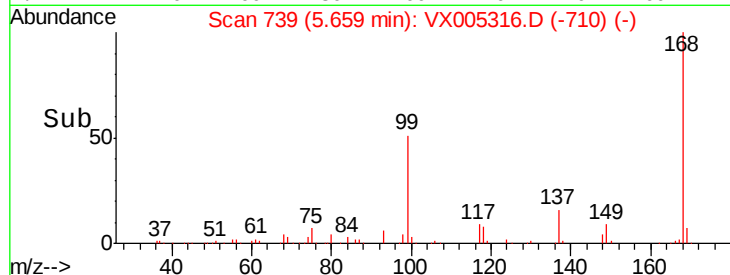
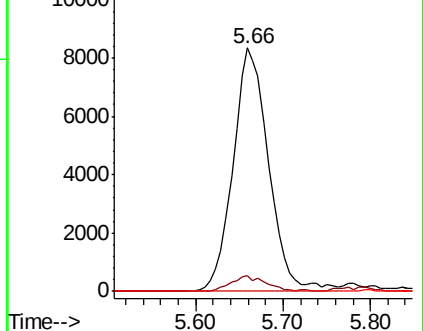
121 0.0 24.9 37.3#



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



#39

Methylcyclohexane

Concen: 0.367 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.25 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

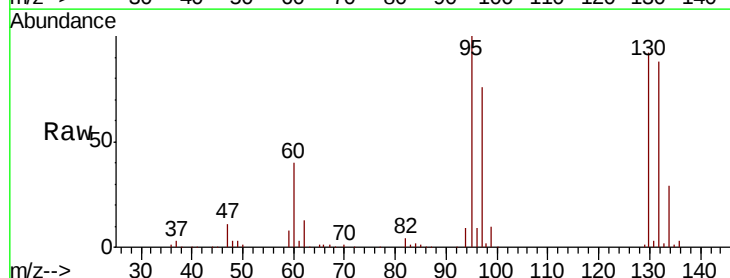
Tgt Ion: 83 Resp: 1464

Ion Ratio Lower Upper

83 100

55 0.0 61.0 91.4#

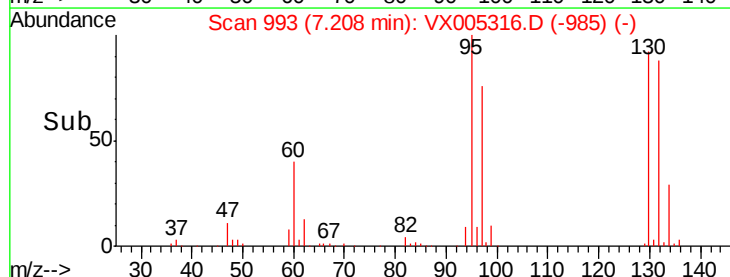
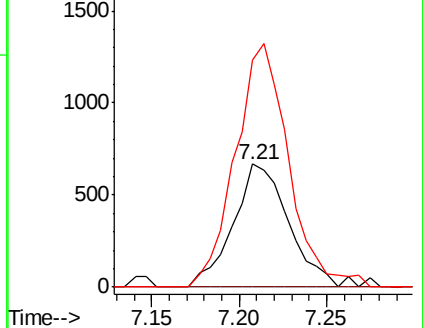
98 184.4 39.6 59.4#

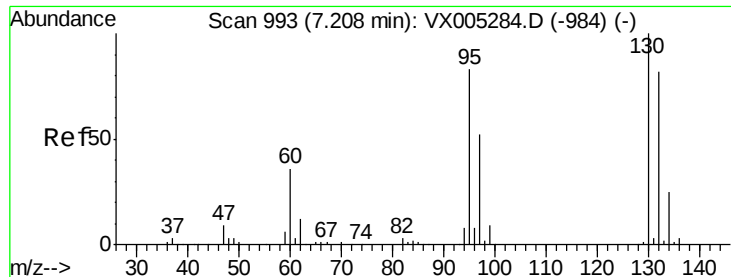


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

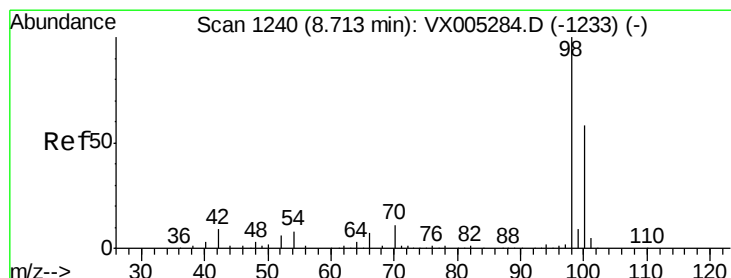
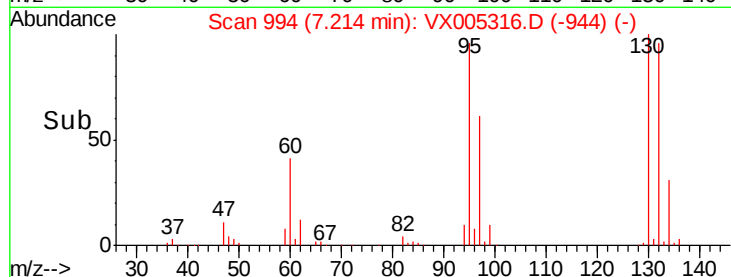
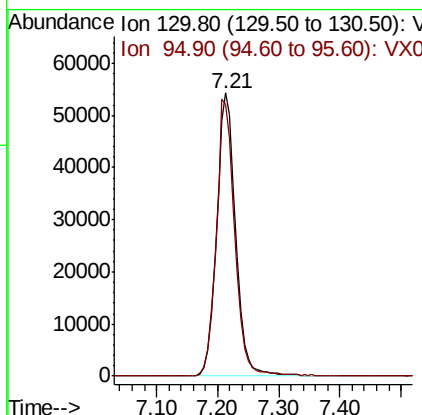
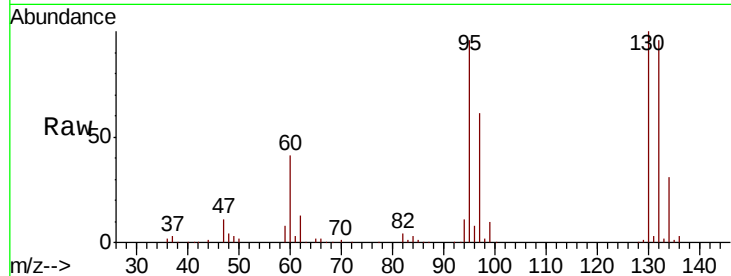




#44
 Trichloroethene
 Concen: 41.842 ug/l
 RT: 7.21 min Scan# 994
 Delta R.T. 0.01 min
 Lab File: VX005316.D
 Acq: 13 Oct 2018 02:17

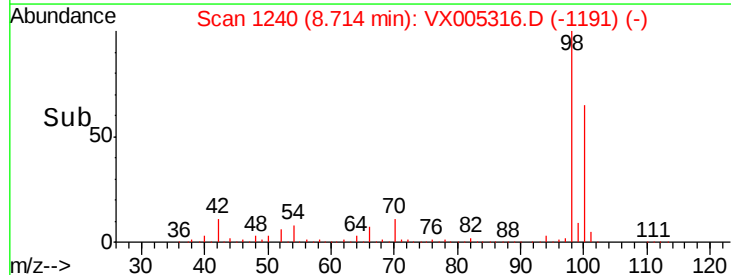
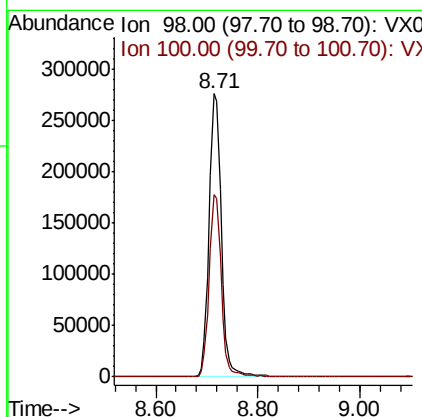
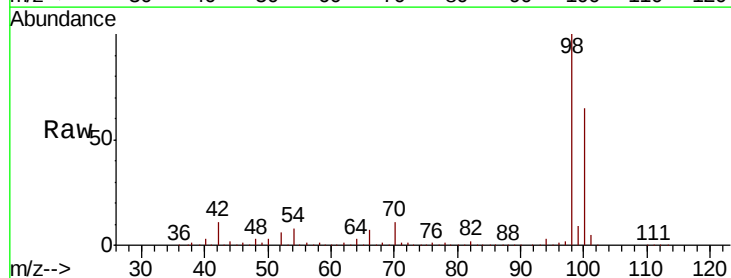
Instrument :
 MSVOA_X
 ClientSampleId :

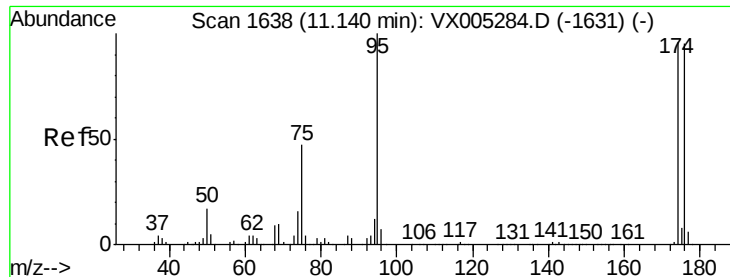
Tot Ion:130 Resp: 118346
 Ion Ratio Lower Upper
 130 100
 95 96.2 0.0 181.6



#50
 Toluene-d8
 Concen: 53.200 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX005316.D
 Acq: 13 Oct 2018 02:17

Tgt Ion: 98 Resp: 460112
 Ion Ratio Lower Upper
 98 100
 100 63.7 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 45.734 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

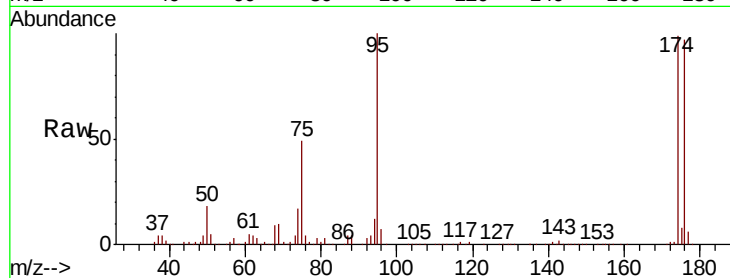
Tot Ion: 95 Resp: 148589

Ion Ratio Lower Upper

95 100

174 96.2 0.0 185.2

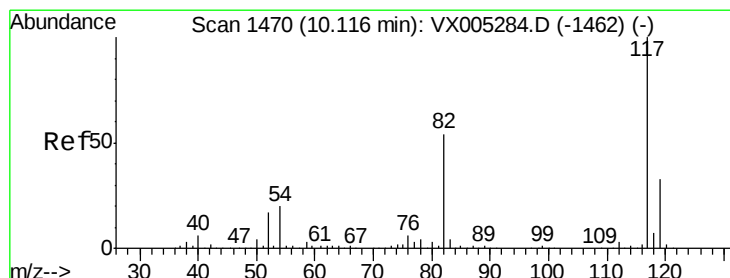
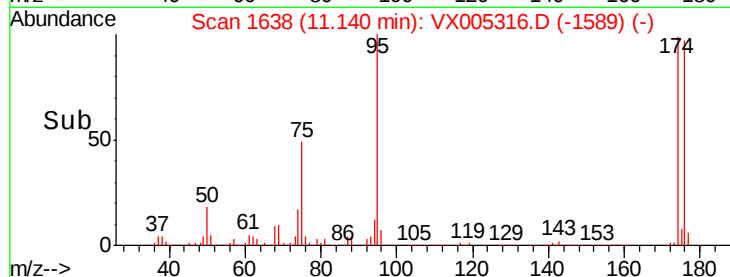
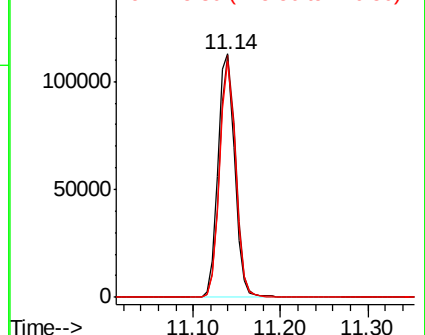
176 92.6 0.0 178.6



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: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

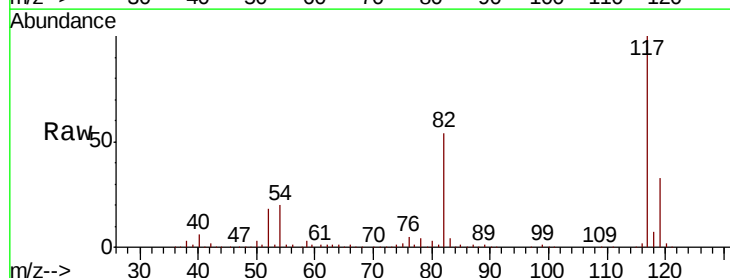
Tgt Ion: 117 Resp: 341865

Ion Ratio Lower Upper

117 100

82 53.6 47.8 71.6

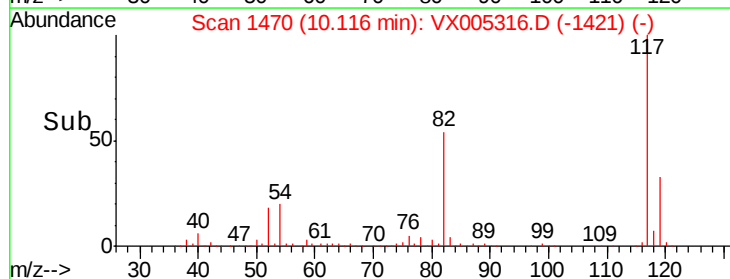
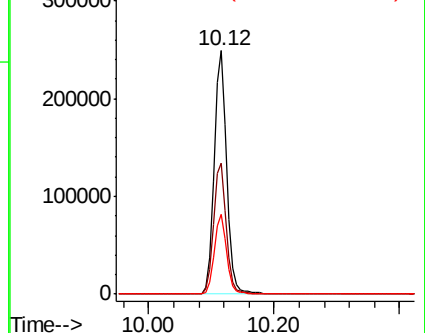
119 32.6 29.3 43.9

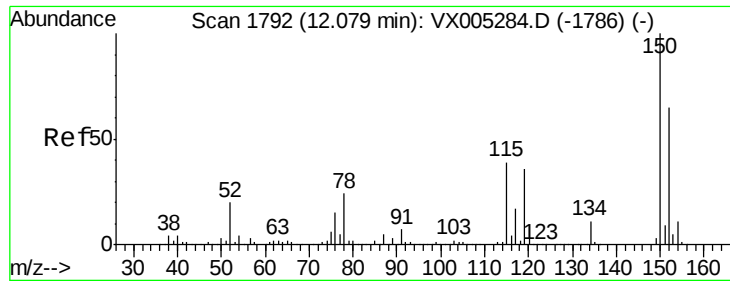


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



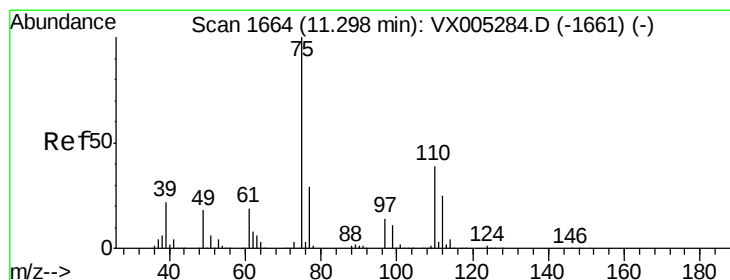
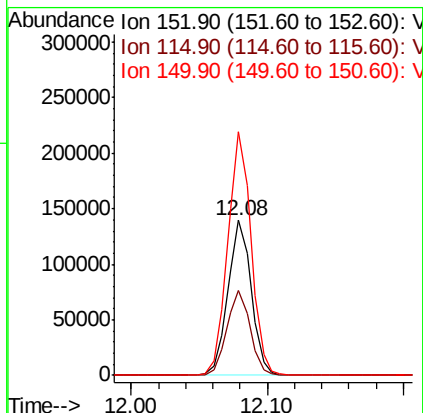
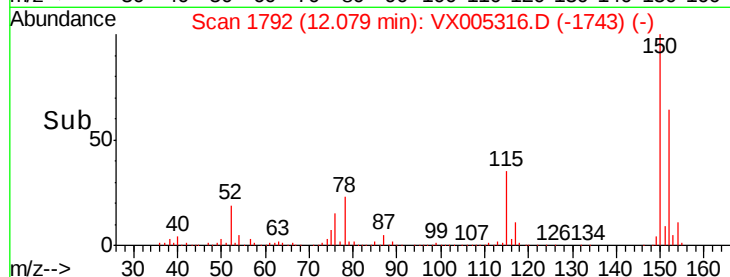
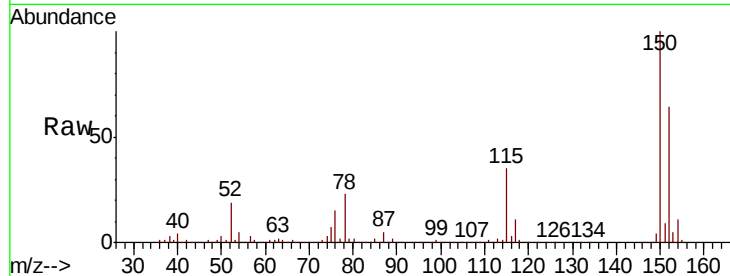


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005316.D
Acq: 13 Oct 2018 02:17

Instrument :
MSVOA_X
ClientSampled :

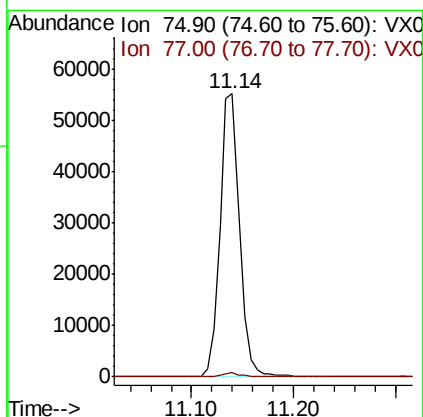
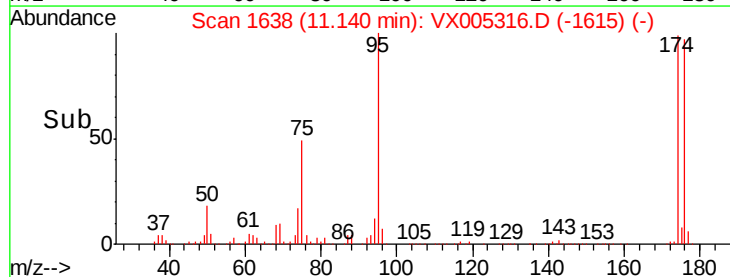
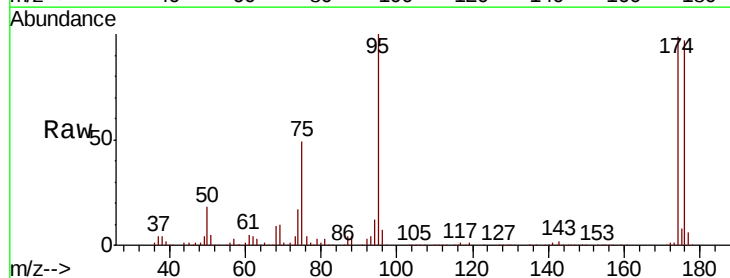
Tot Ion:152 Resp: 165830
Ion Ratio Lower Upper
152 100
115 55.1 39.0 117.0
150 156.9 0.0 351.0

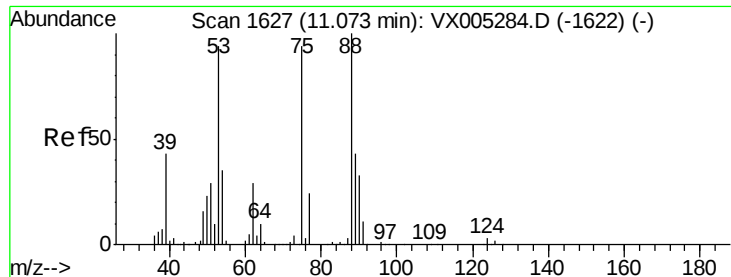


#76

1,2,3-Trichloropropane
Concen: 23.128 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005316.D
Acq: 13 Oct 2018 02:17

Tgt Ion: 75 Resp: 74395
Ion Ratio Lower Upper
75 100
77 1.4 20.2 60.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 70.275 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005316.D

Acq: 13 Oct 2018 02:17

Instrument :

MSVOA_X

ClientSampleId :

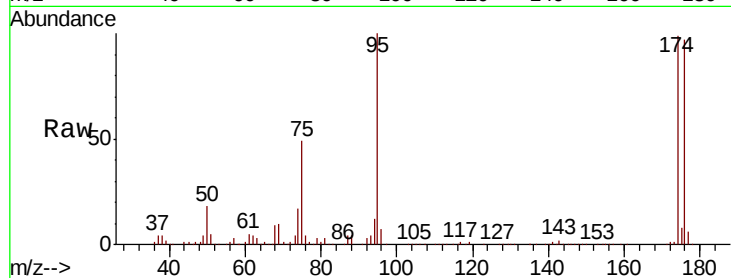
Tot Ion: 75 Resp: 74395

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

