

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101218\
 Data File : VX005311.D
 Acq On : 13 Oct 2018 00:04
 Operator : JC/MD
 Sample : J5429-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 13 02:40:52 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	281150	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	387183	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	352206	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	172667	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	164091	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
35) Dibromofluoromethane	5.50	113	130439	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
50) Toluene-d8	8.71	98	466525	52.99	ug/l	0.00
Spiked Amount			Recovery	=	105.98%	
62) 4-Bromofluorobenzene	11.14	95	154290	46.65	ug/l	0.00
Spiked Amount			Recovery	=	93.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	999	1.126	ug/l #	75
6) Chloroethane	1.72	64	109	0.386	ug/l #	59
10) Methyl Iodide	2.52	142	1021	2.845	ug/l #	92
11) Tert butyl alcohol	3.06	59	381	0.433	ug/l #	91
13) Acrolein	2.28	56	212	Below Cal	#	76
15) Acrylonitrile	3.15	53	505	0.253	ug/l #	35
16) Acetone	2.45	43	1872	1.038	ug/l #	79
17) Carbon Disulfide	2.57	76	2313	0.310	ug/l #	93
20) Methylene Chloride	2.86	84	1098	Below Cal	#	84
29) Tetrahydrofuran	5.17	42	420	0.249	ug/l #	62
31) Cyclohexane	5.66	56	5213	1.215	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19184	5.116	ug/l #	50
38) Carbon Tetrachloride	5.68	117	25658	6.810	ug/l #	14
44) Trichloroethene	7.22	130	503	Below Cal		63
60) Dibromochloromethane	9.59	129	661	0.245	ug/l	97
71) Bromoform	10.86	173	541	0.227	ug/l #	92
76) 1,2,3-Trichloropropane	11.14	75	75912	22.665	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	75912	68.868	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Instrument :

MSVOA_X

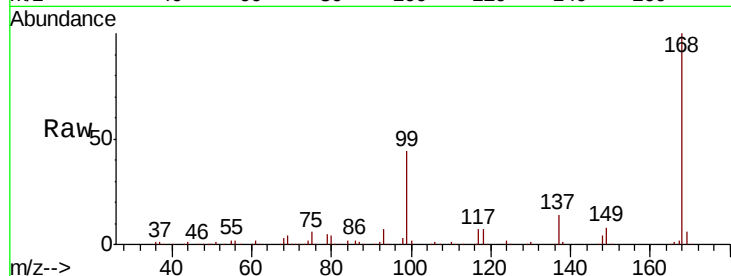
ClientSampleId :

Tot Ion:168 Resp: 281150

Ion Ratio Lower Upper

168 100

99 43.9 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

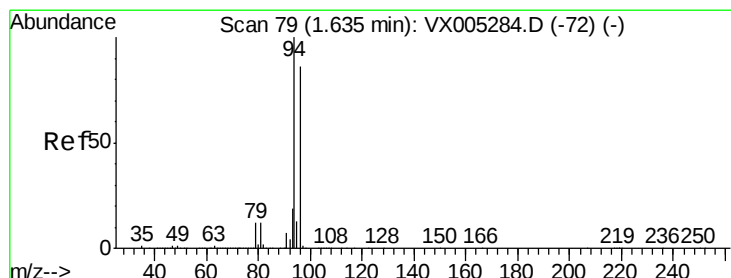
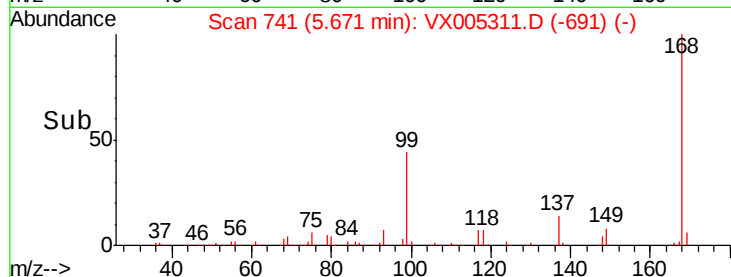
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 1.126 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005311.D

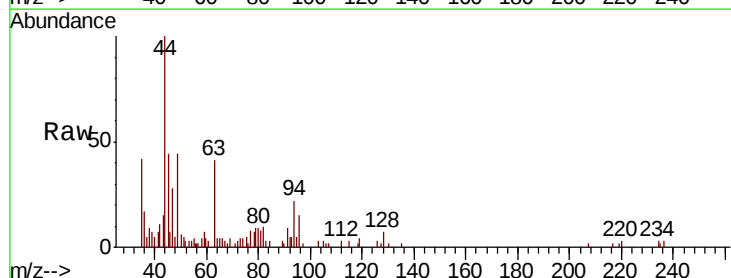
Acq: 13 Oct 2018 00:04

Tgt Ion: 94 Resp: 999

Ion Ratio Lower Upper

94 100

96 68.6 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

600

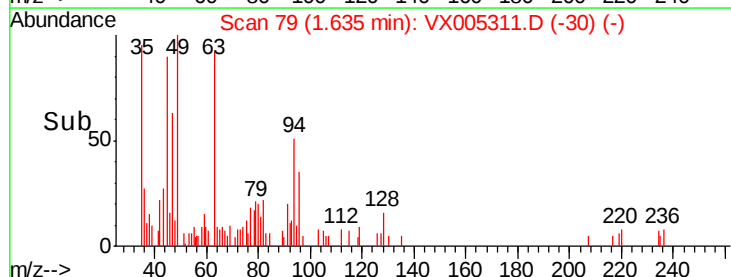
400

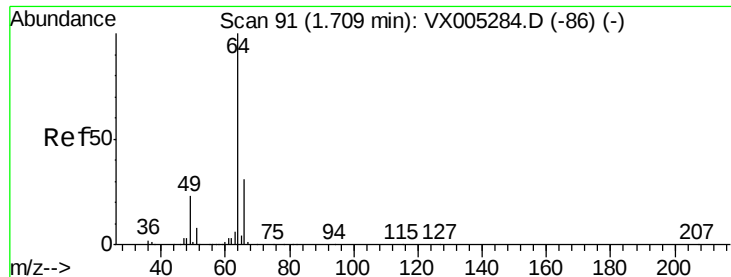
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.386 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Instrument :

MSVOA_X

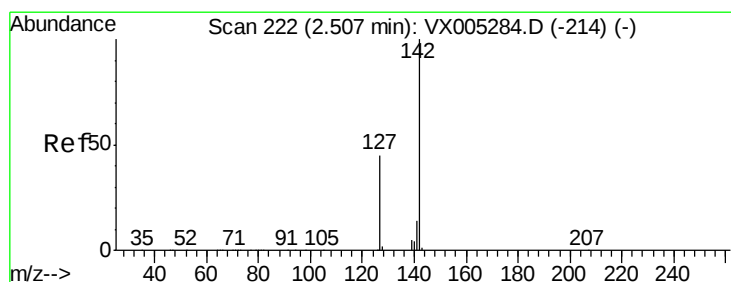
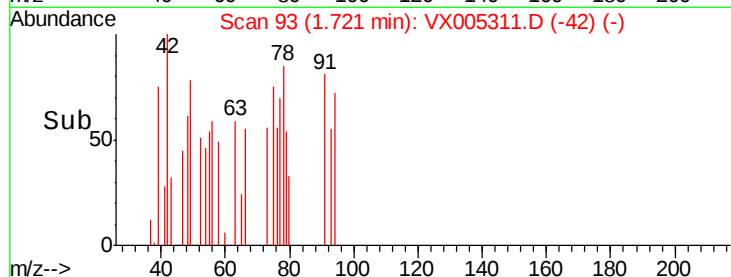
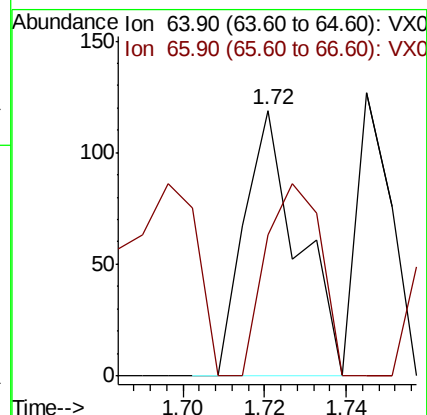
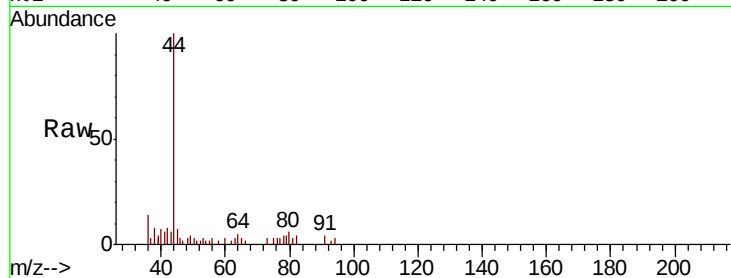
ClientSampleId :

Tot Ion: 64 Resp: 109

Ion Ratio Lower Upper

64 100

66 52.9 24.6 36.8#



#10

Methyl Iodide

Concen: 2.845 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

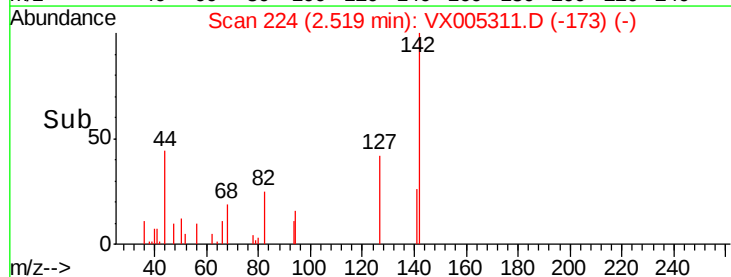
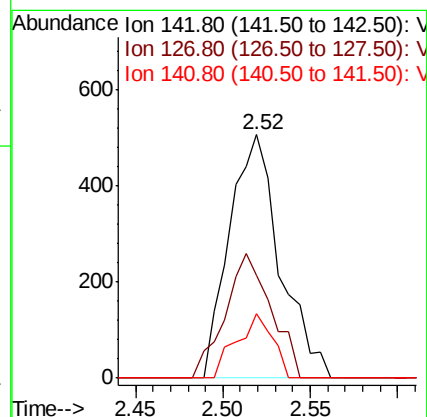
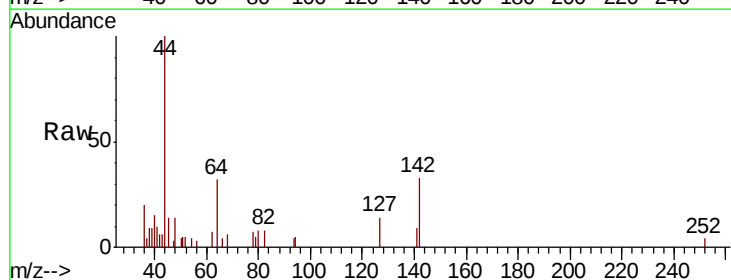
Tgt Ion: 142 Resp: 1021

Ion Ratio Lower Upper

142 100

127 46.5 33.8 50.6

141 18.7 11.4 17.0#



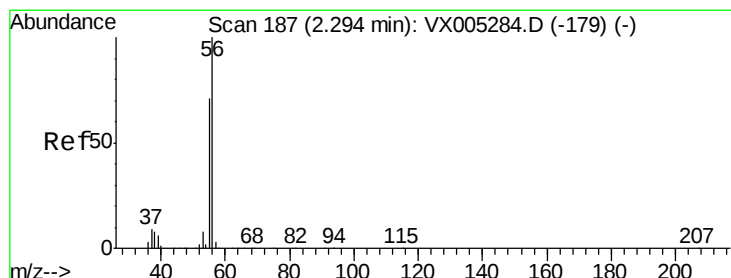
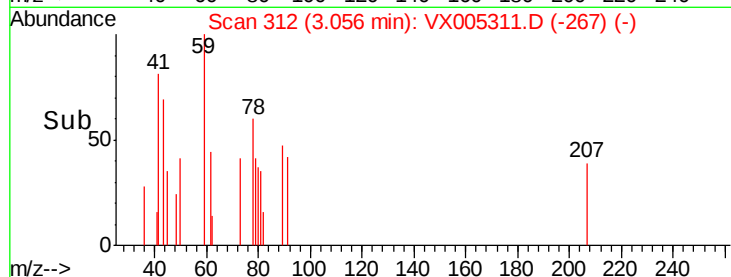
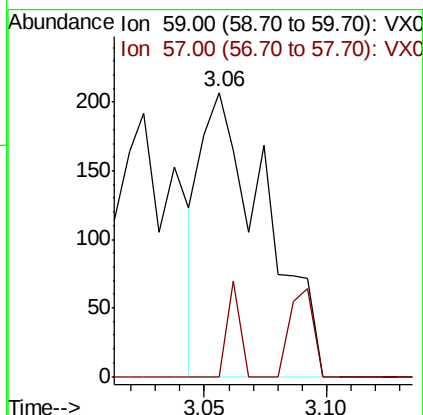
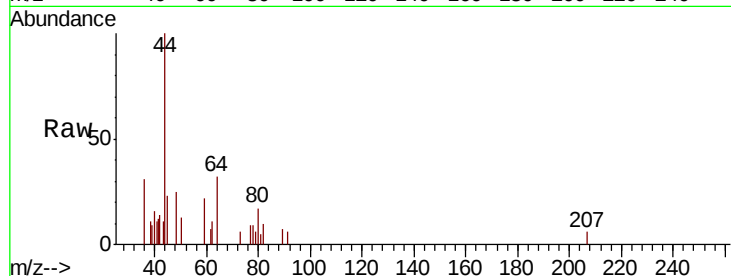


#11

Tert butyl alcohol
Concen: 0.433 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX005311.D
Acq: 13 Oct 2018 00:04

Instrument :
MSVOA_X
ClientSampled :

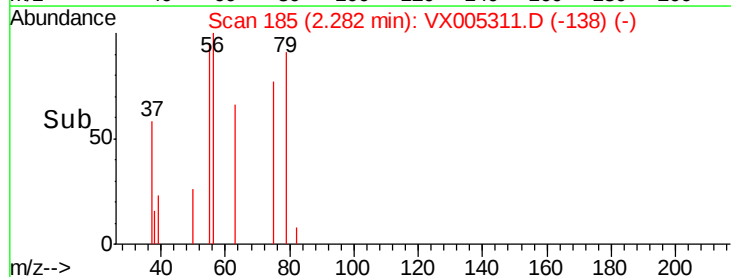
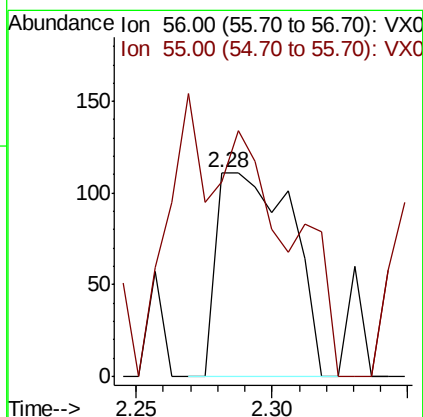
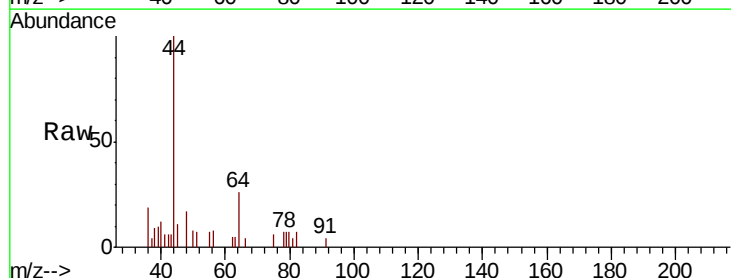
Tot Ion: 59 Resp: 381
Ion Ratio Lower Upper
59 100
57 6.8 8.2 12.4#

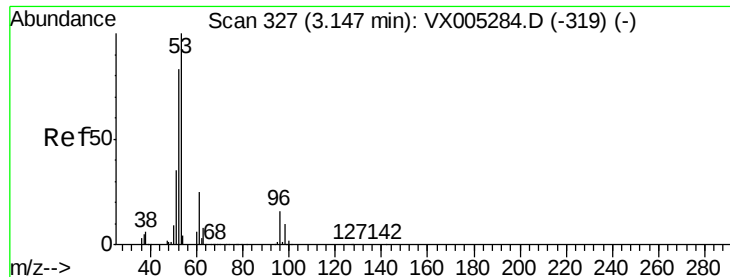


#13

Acrolein
Concen: Below Cal
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX005311.D
Acq: 13 Oct 2018 00:04

Tgt Ion: 56 Resp: 212
Ion Ratio Lower Upper
56 100
55 87.7 54.7 82.1#





#15

Acrylonitrile

Concen: 0.253 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

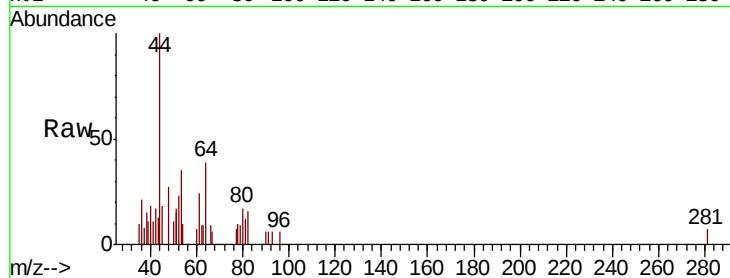
Tot Ion: 53 Resp: 505

Ion Ratio Lower Upper

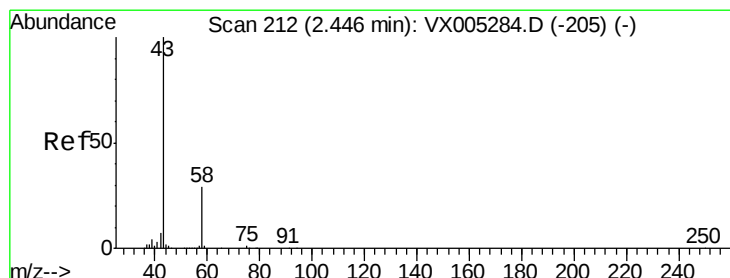
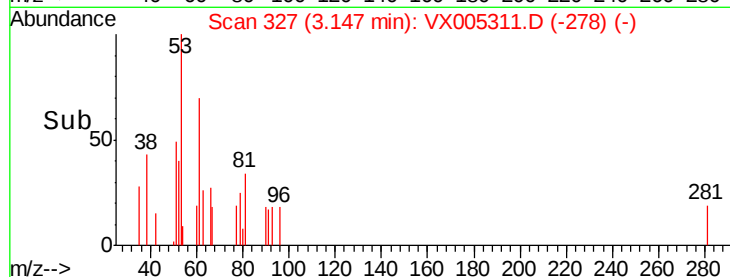
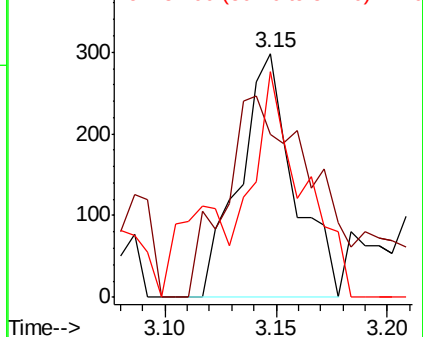
53 100

52 132.3 65.2 97.8#

51 84.8 28.2 42.2#



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



#16

Acetone

Concen: 1.038 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005311.D

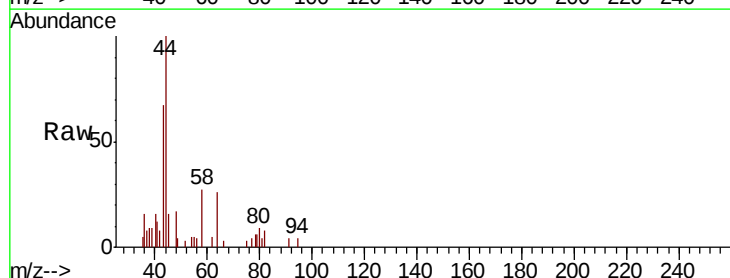
Acq: 13 Oct 2018 00:04

Tgt Ion: 43 Resp: 1872

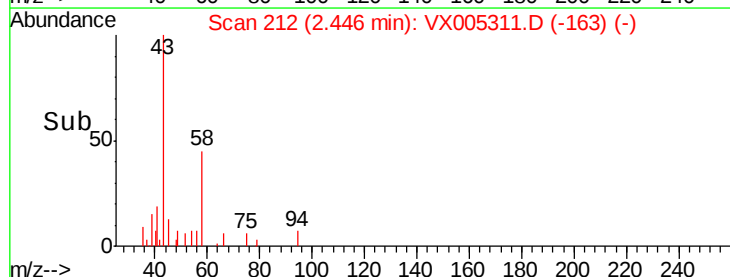
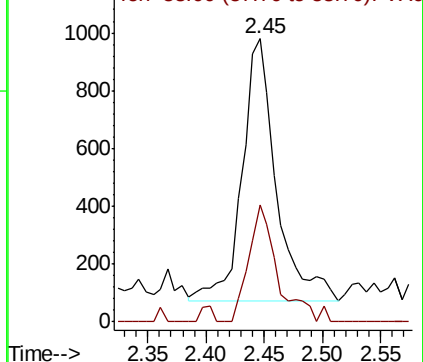
Ion Ratio Lower Upper

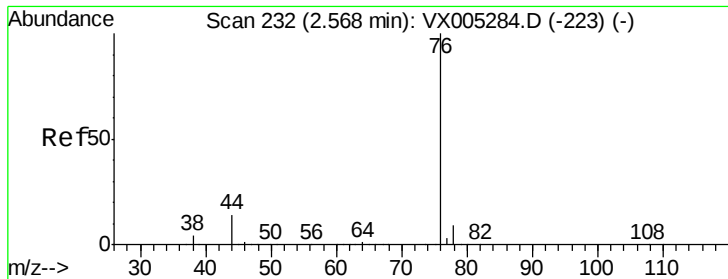
43 100

58 44.5 26.2 39.4#



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





#17

Carbon Disulfide

Concen: 0.310 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Instrument :

MSVOA_X

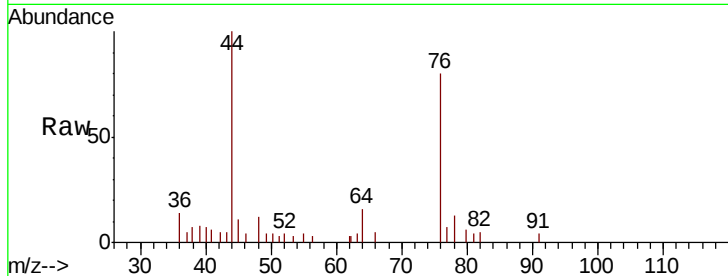
ClientSampleId :

Tot Ion: 76 Resp: 2313

Ion Ratio Lower Upper

76 100

78 11.4 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

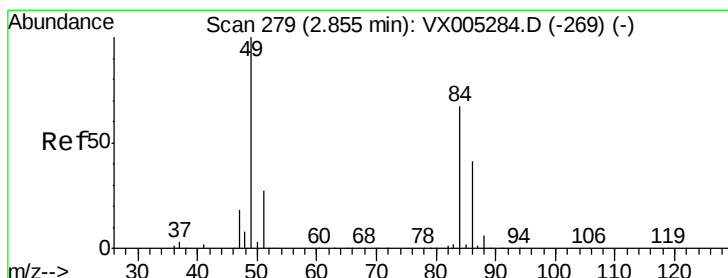
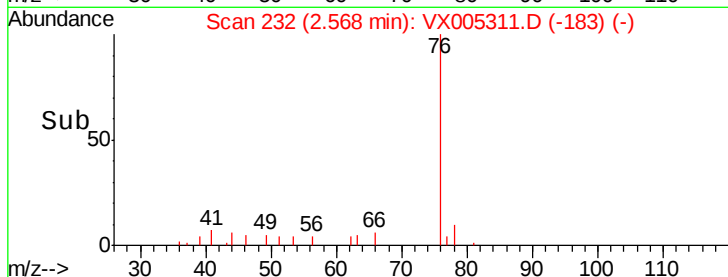
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Tgt Ion: 84 Resp: 1098

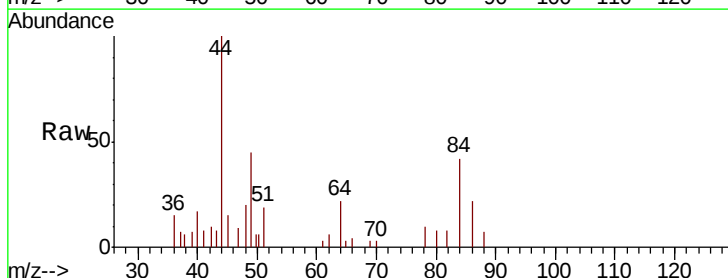
Ion Ratio Lower Upper

84 100

49 107.4 101.2 151.8

51 29.3 29.5 44.3#

86 52.6 52.3 78.5



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

1200

1000

800

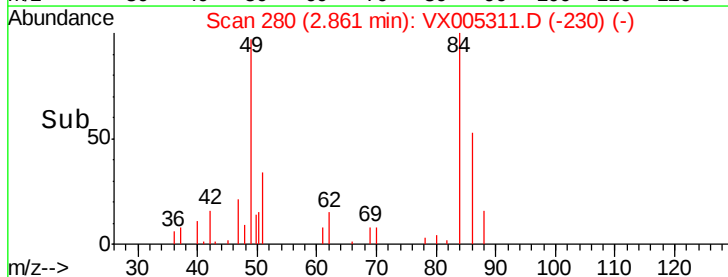
600

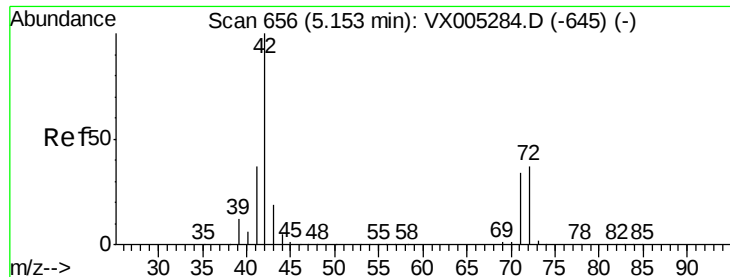
400

200

0

Time-->





#29

Tetrahydrofuran

Concen: 0.249 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Instrument :

MSVOA_X

ClientSampled :

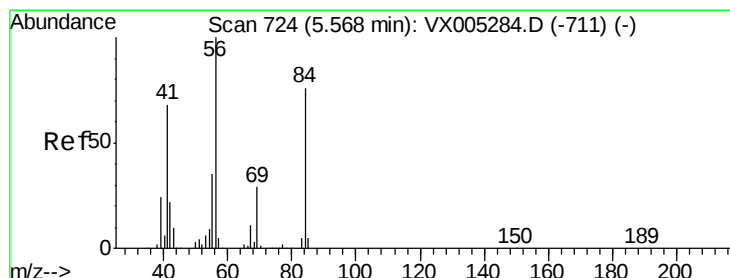
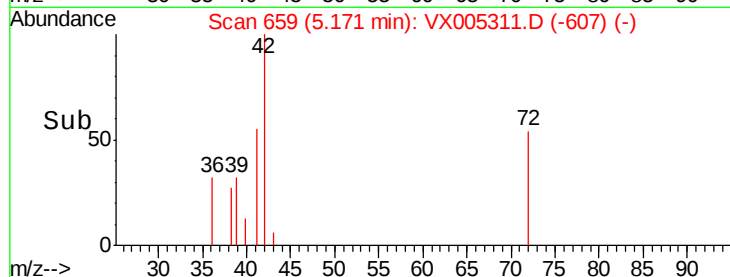
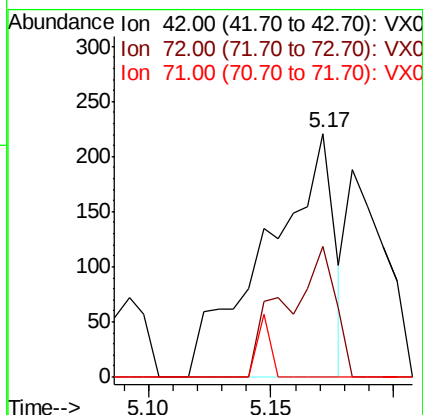
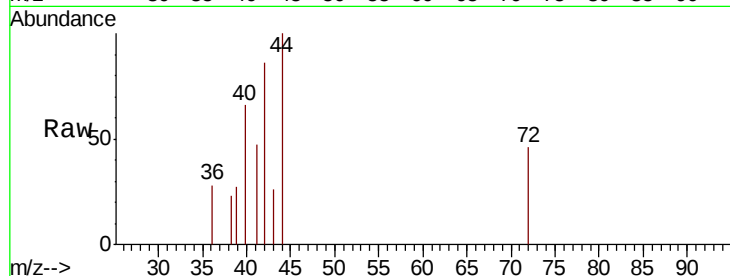
Tot Ion: 42 Resp: 420

Ion Ratio Lower Upper

42 100

72 40.0 37.4 56.0

71 0.0 34.5 51.7#



#31

Cyclohexane

Concen: 1.215 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

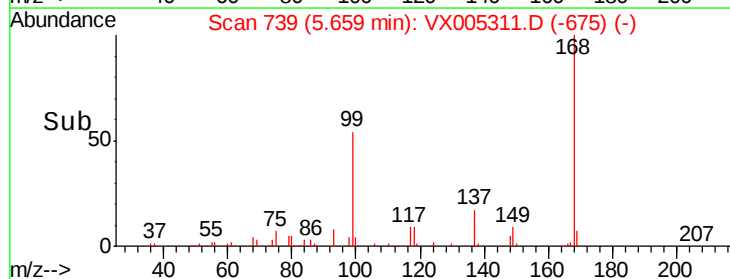
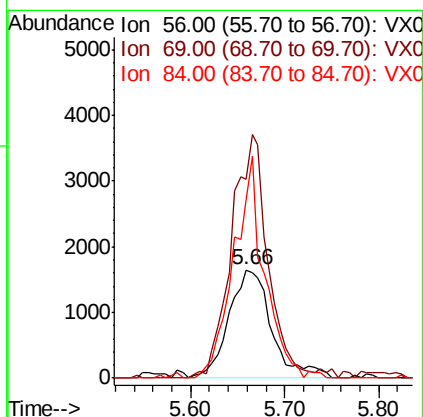
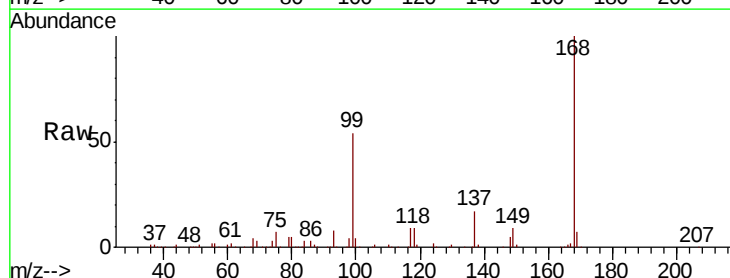
Tgt Ion: 56 Resp: 5213

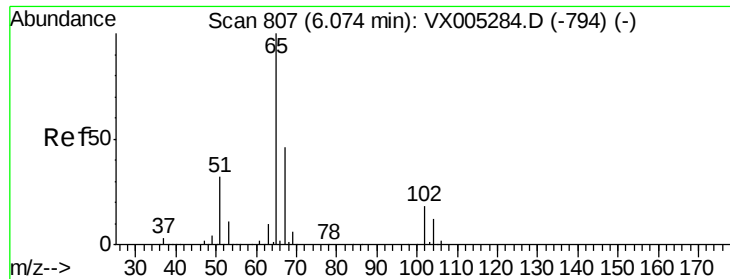
Ion Ratio Lower Upper

56 100

69 182.9 25.4 38.2#

84 164.1 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 52.588 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Instrument :

MSVOA_X

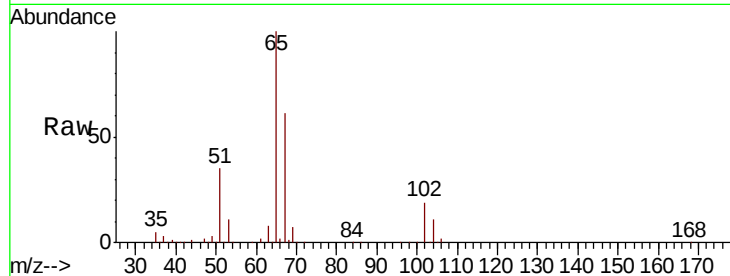
ClientSampleId :

Tot Ion: 65 Resp: 164091

Ion Ratio Lower Upper

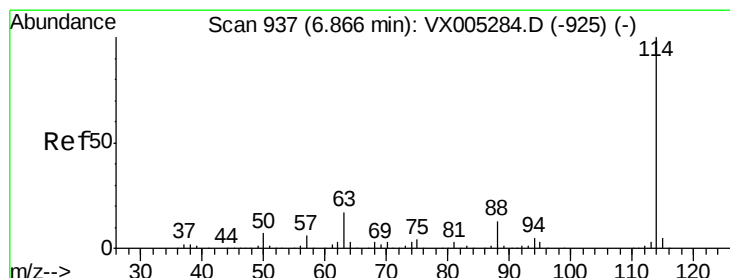
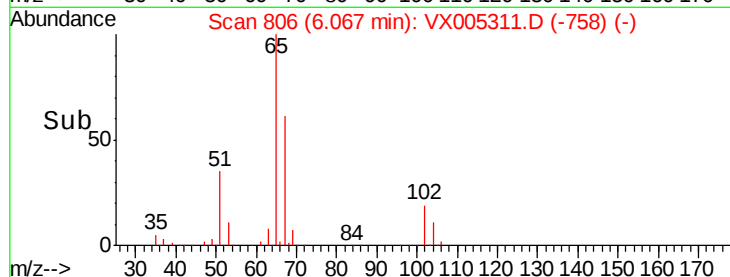
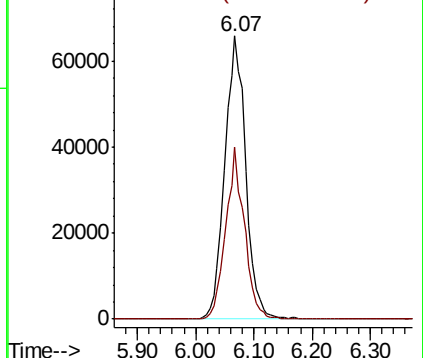
65 100

67 54.5 0.0 106.8



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. -0.01 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

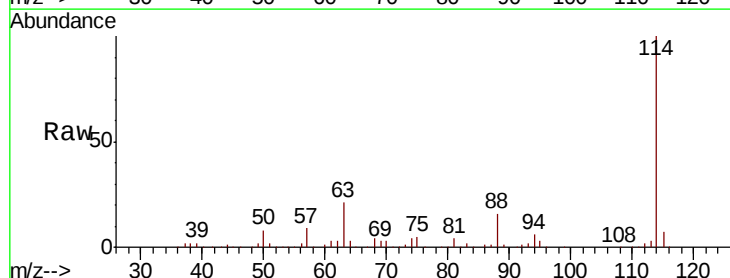
Tgt Ion: 114 Resp: 387183

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.0

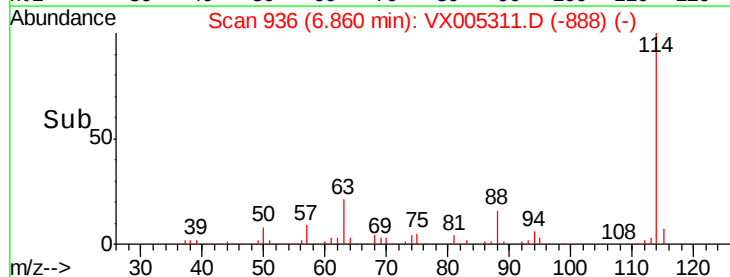
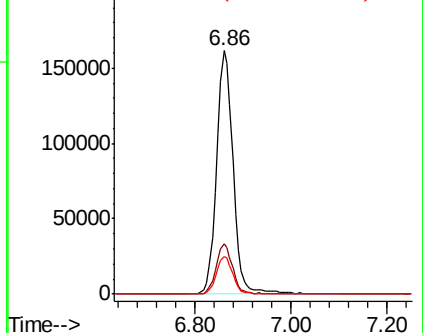
88 15.5 0.0 30.4

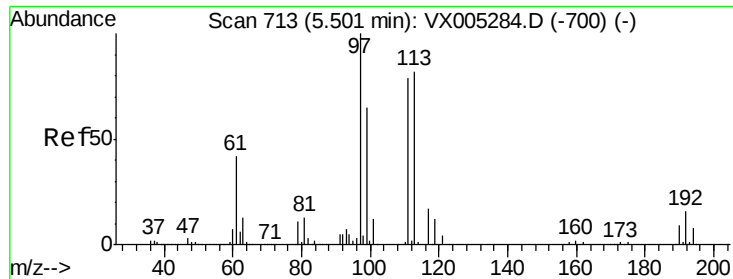


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

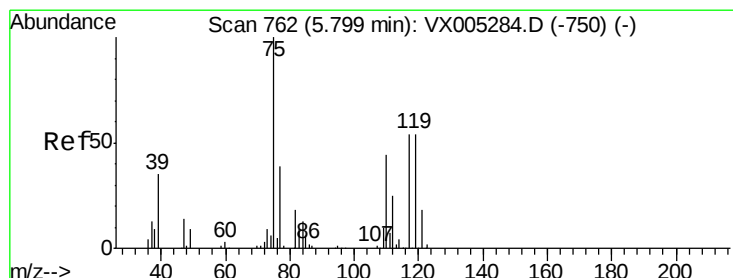
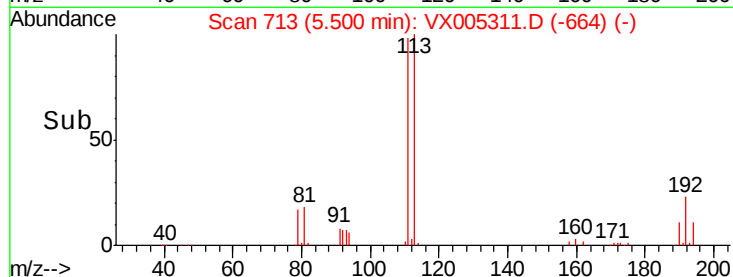
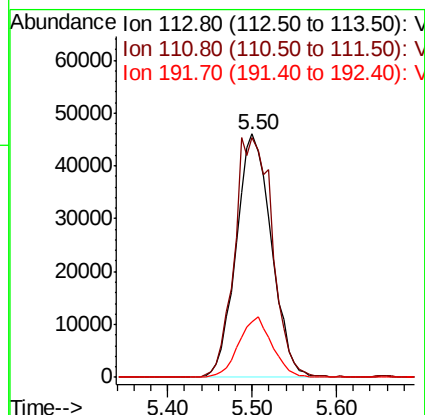
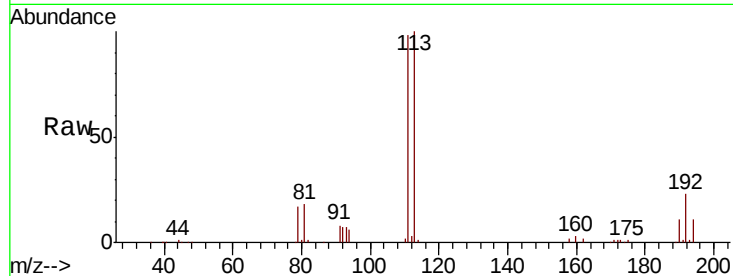




#35
 Dibromofluoromethane
 Concen: 50.865 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005311.D
 Acq: 13 Oct 2018 00:04

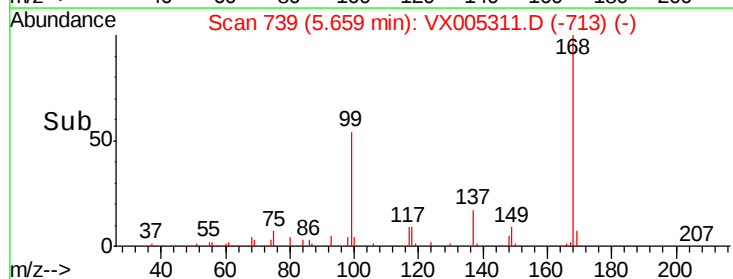
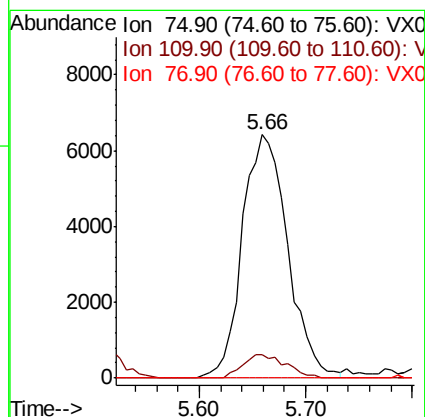
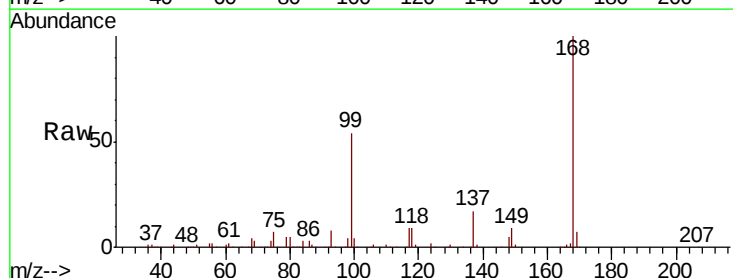
Instrument :
 MSVOA_X
 ClientSampleId :

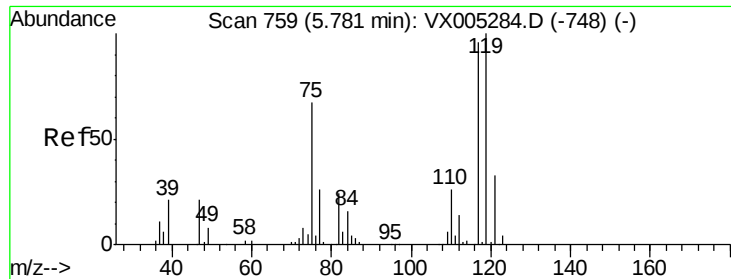
Tot Ion:113 Resp: 130439
 Ion Ratio Lower Upper
 113 100
 111 105.9 82.4 123.6
 192 23.5 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 5.116 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005311.D
 Acq: 13 Oct 2018 00:04

Tgt Ion: 75 Resp: 19184
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.0 54.0#
 77 0.0 24.6 36.8#

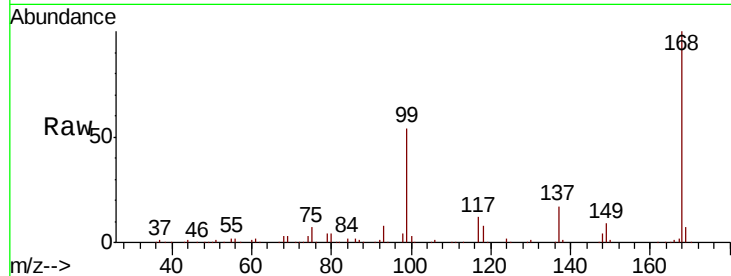




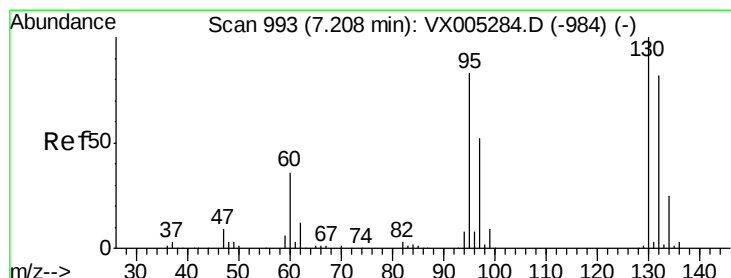
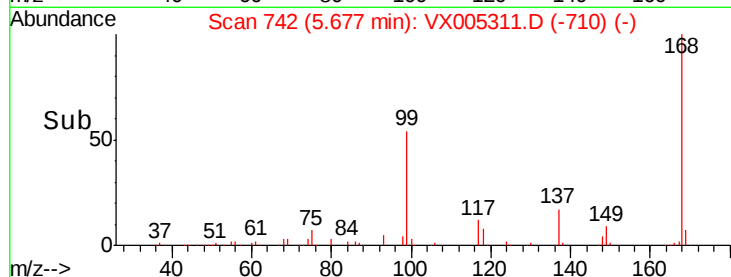
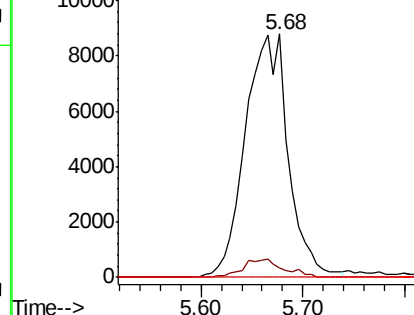
#38
Carbon Tetrachloride
Concen: 6.810 ug/l
RT: 5.68 min Scan# 742
Delta R.T. -0.10 min
Lab File: VX005311.D
Acq: 13 Oct 2018 00:04

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 25658
Ion Ratio Lower Upper
117 100
119 3.6 78.8 118.2#
121 0.0 24.9 37.3#

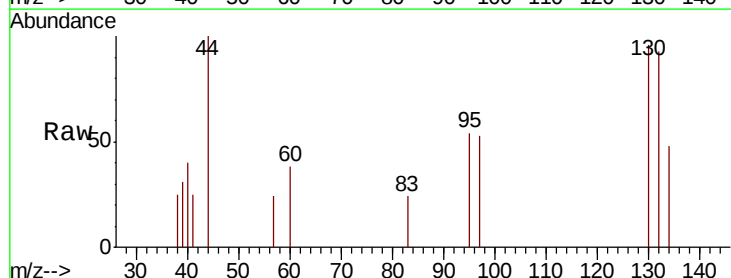


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

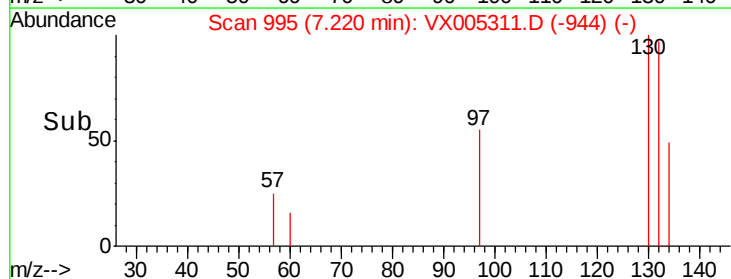
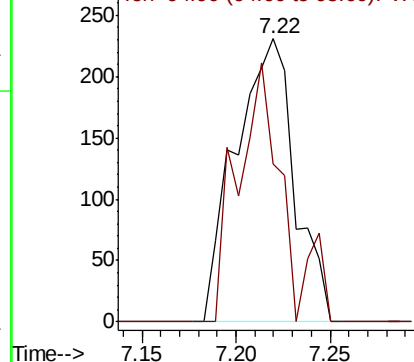


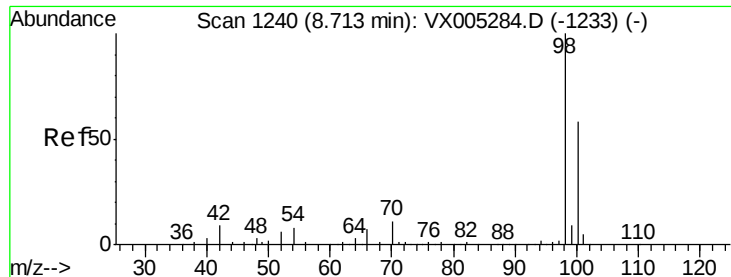
#44
Trichloroethene
Concen: Below Cal
RT: 7.22 min Scan# 995
Delta R.T. 0.01 min
Lab File: VX005311.D
Acq: 13 Oct 2018 00:04

Tgt Ion:130 Resp: 503
Ion Ratio Lower Upper
130 100
95 55.8 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): VX0

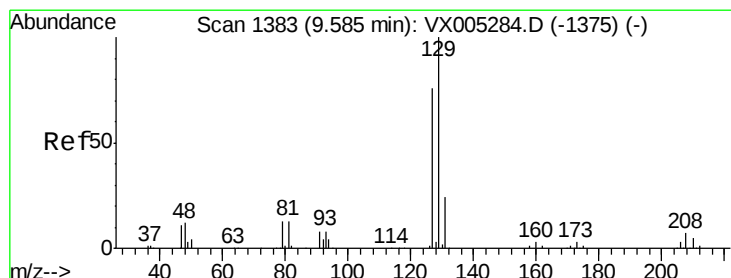
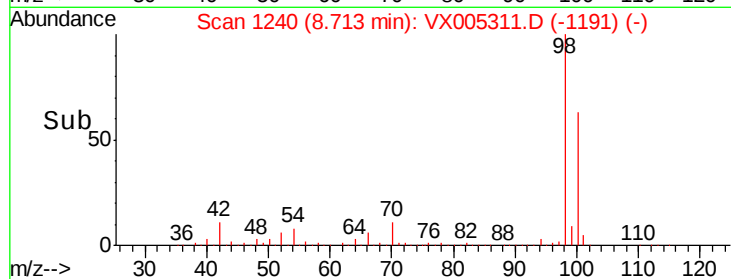
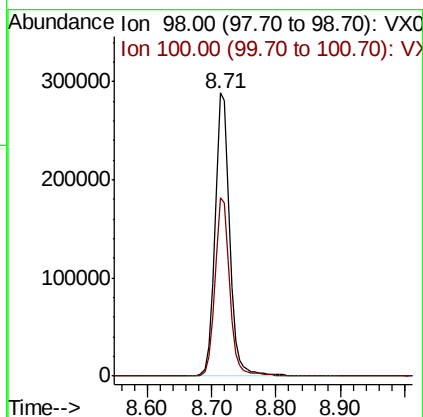
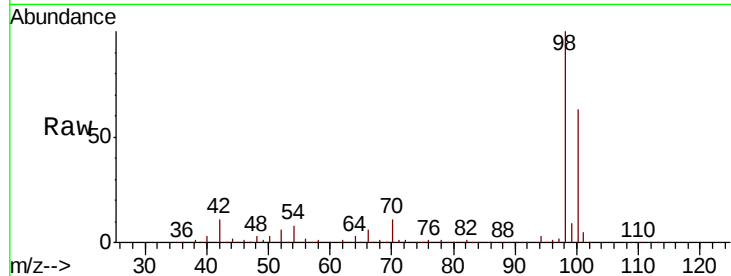




#50
Toluene-d8
Concen: 52.991 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005311.D
Acq: 13 Oct 2018 00:04

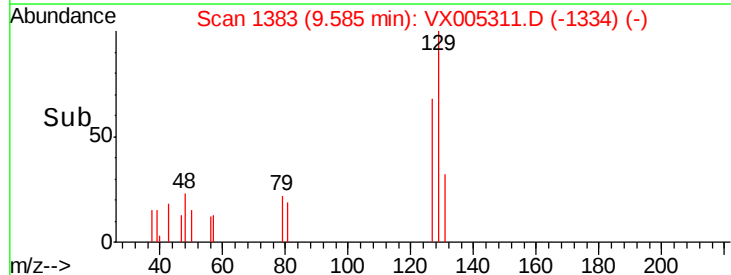
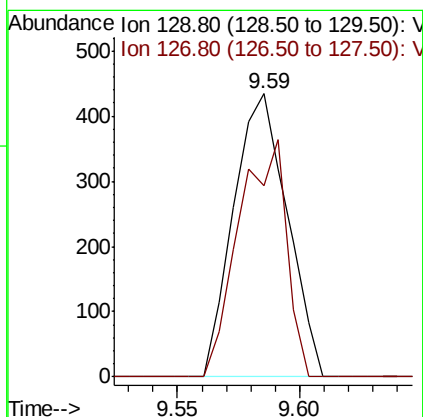
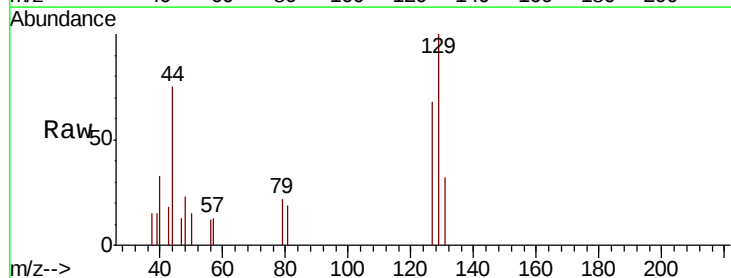
Instrument :
MSVOA_X
ClientSampleId :

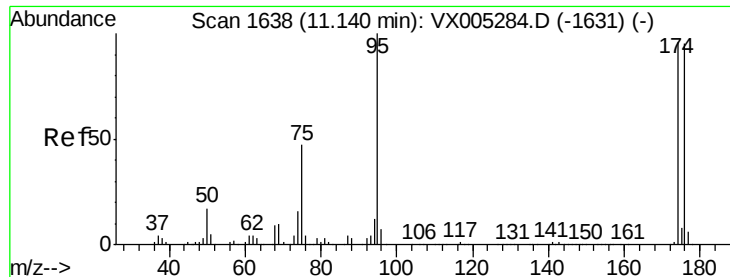
Tot Ion: 98 Resp: 466525
Ion Ratio Lower Upper
98 100
100 63.4 52.9 79.3



#60
Dibromochloromethane
Concen: 0.245 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VX005311.D
Acq: 13 Oct 2018 00:04

Tgt Ion: 129 Resp: 661
Ion Ratio Lower Upper
129 100
127 74.3 38.5 115.5





#62

4-Bromofluorobenzene

Concen: 46.652 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

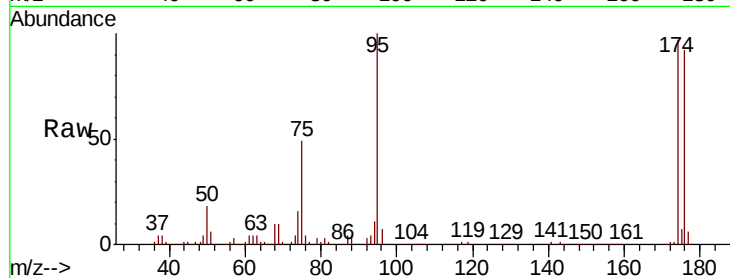
Tot Ion: 95 Resp: 154290

Ion Ratio Lower Upper

95 100

174 96.5 0.0 185.2

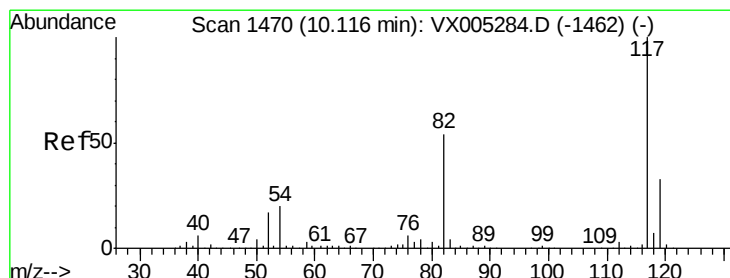
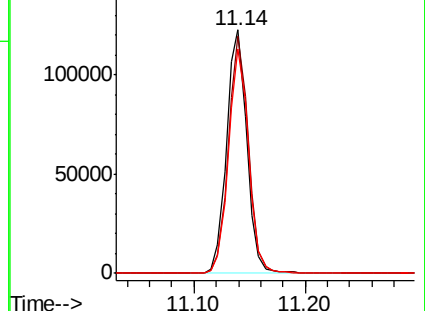
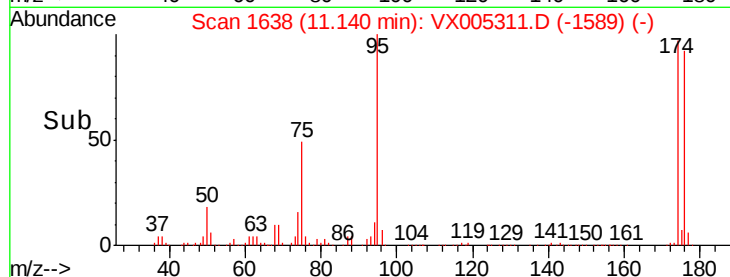
176 91.5 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX005311.D (-1589) (-)

Ion 173.80 (173.50 to 174.50): VX005311.D (-1589) (-)

Ion 175.80 (175.50 to 176.50): VX005311.D (-1589) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

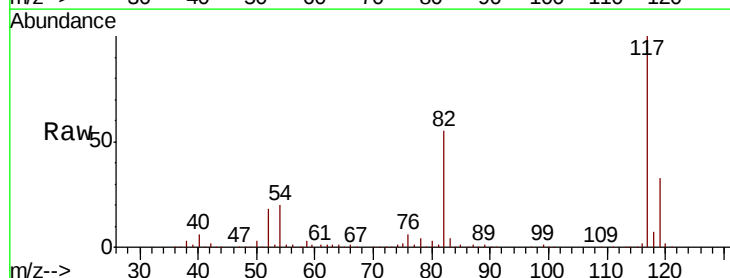
Tgt Ion: 117 Resp: 352206

Ion Ratio Lower Upper

117 100

82 55.1 47.8 71.6

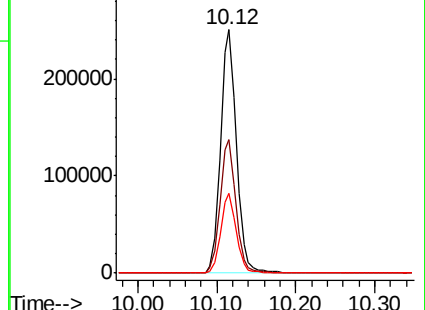
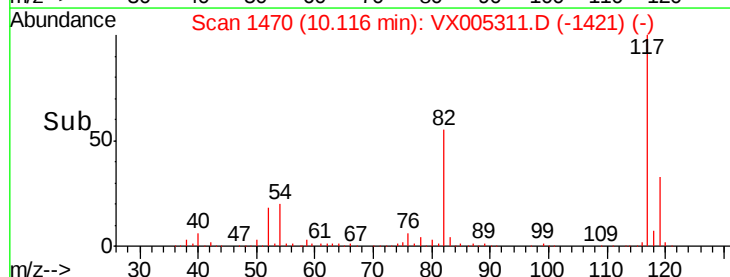
119 32.7 29.3 43.9

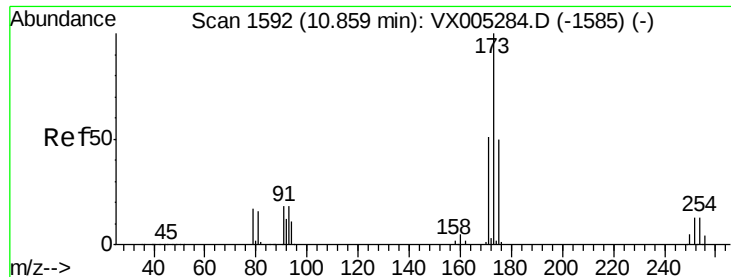


Abundance Ion 116.90 (116.60 to 117.60): VX005311.D (-1421) (-)

Ion 82.00 (81.70 to 82.70): VX005311.D (-1421) (-)

Ion 118.90 (118.60 to 119.60): VX005311.D (-1421) (-)





#71

Bromoform

Concen: 0.227 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. -0.00 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Instrument :

MSVOA_X

ClientSampleId :

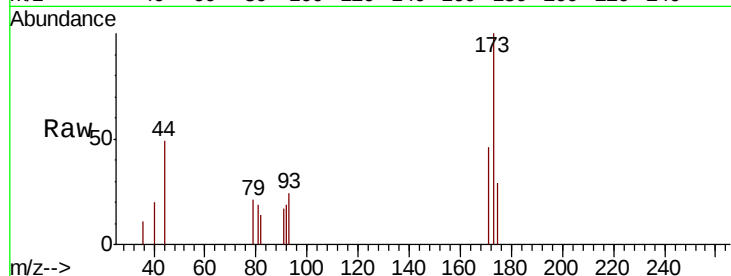
Tot Ion:173 Resp: 541

Ion Ratio Lower Upper

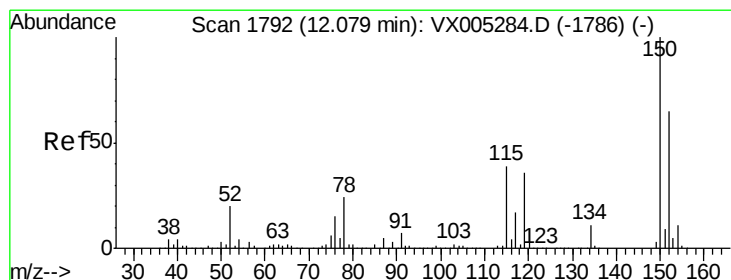
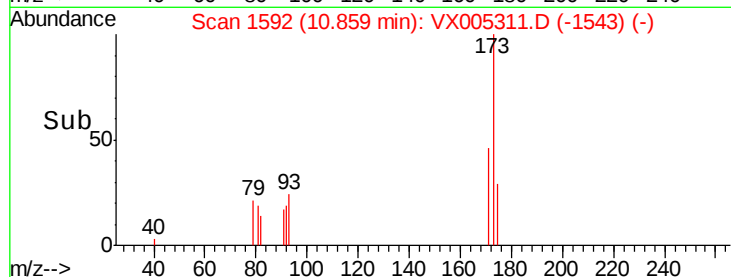
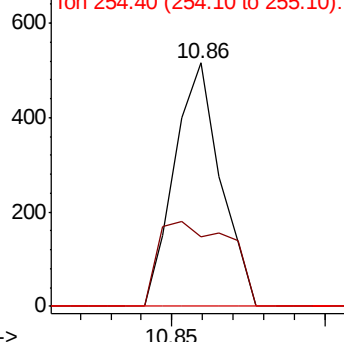
173 100

175 53.8 24.1 72.3

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX005311.D

Acq: 13 Oct 2018 00:04

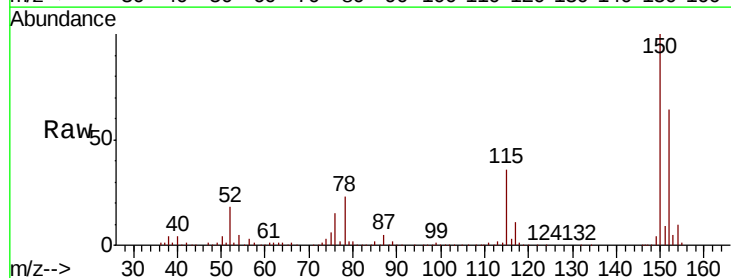
Tgt Ion:152 Resp: 172667

Ion Ratio Lower Upper

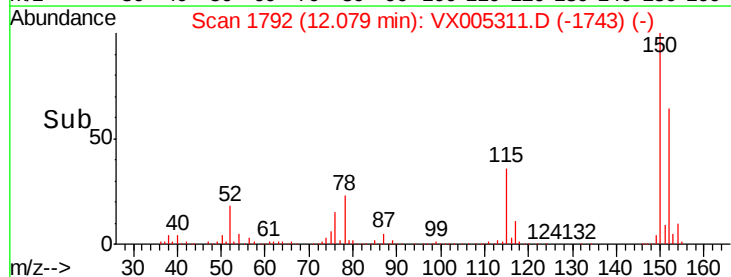
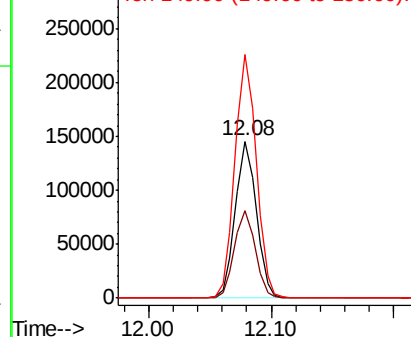
152 100

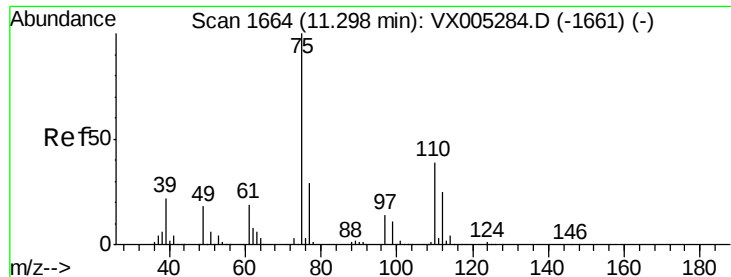
115 55.6 39.0 117.0

150 157.8 0.0 351.0



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: 22.665 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

Instrument :

MSVOA_X

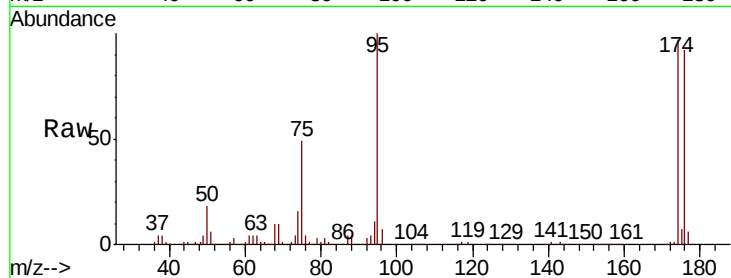
ClientSampleId :

Tot Ion: 75 Resp: 75912

Ion Ratio Lower Upper

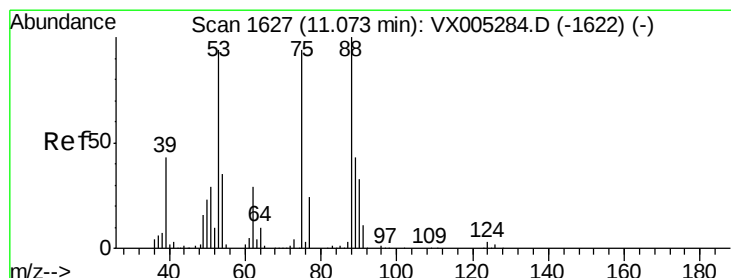
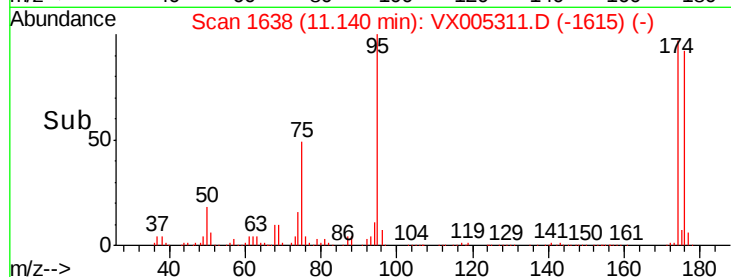
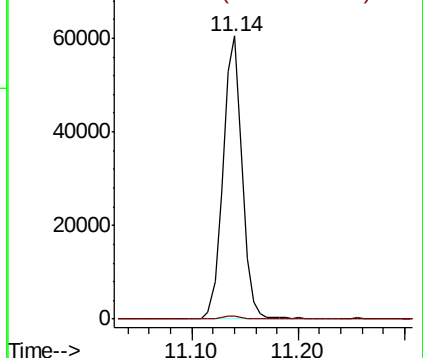
75 100

77 1.3 20.2 60.6#



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: 68.868 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005311.D

Acq: 13 Oct 2018 00:04

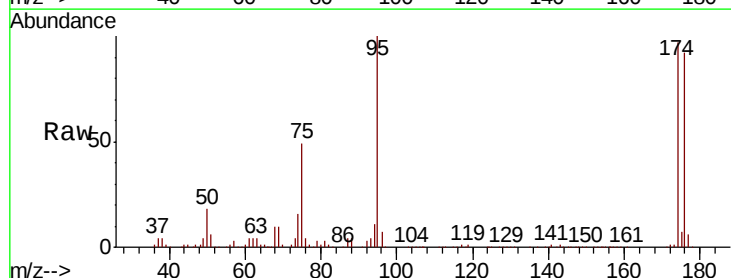
Tgt Ion: 75 Resp: 75912

Ion Ratio Lower Upper

75 100

53 0.3 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

