

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100918\
 Data File : VX005177.D
 Acq On : 09 Oct 2018 23:24
 Operator : JC/MD
 Sample : J5303-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW513-1014

Quant Time: Oct 10 05:56:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	170903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	269254	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	272891	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	153677	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	132884	54.43	ug/l	0.00
Spiked Amount			Recovery	=	108.86%	
35) Dibromofluoromethane	5.50	113	113533	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
50) Toluene-d8	8.72	98	398687	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
62) 4-Bromofluorobenzene	11.14	95	142572	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	

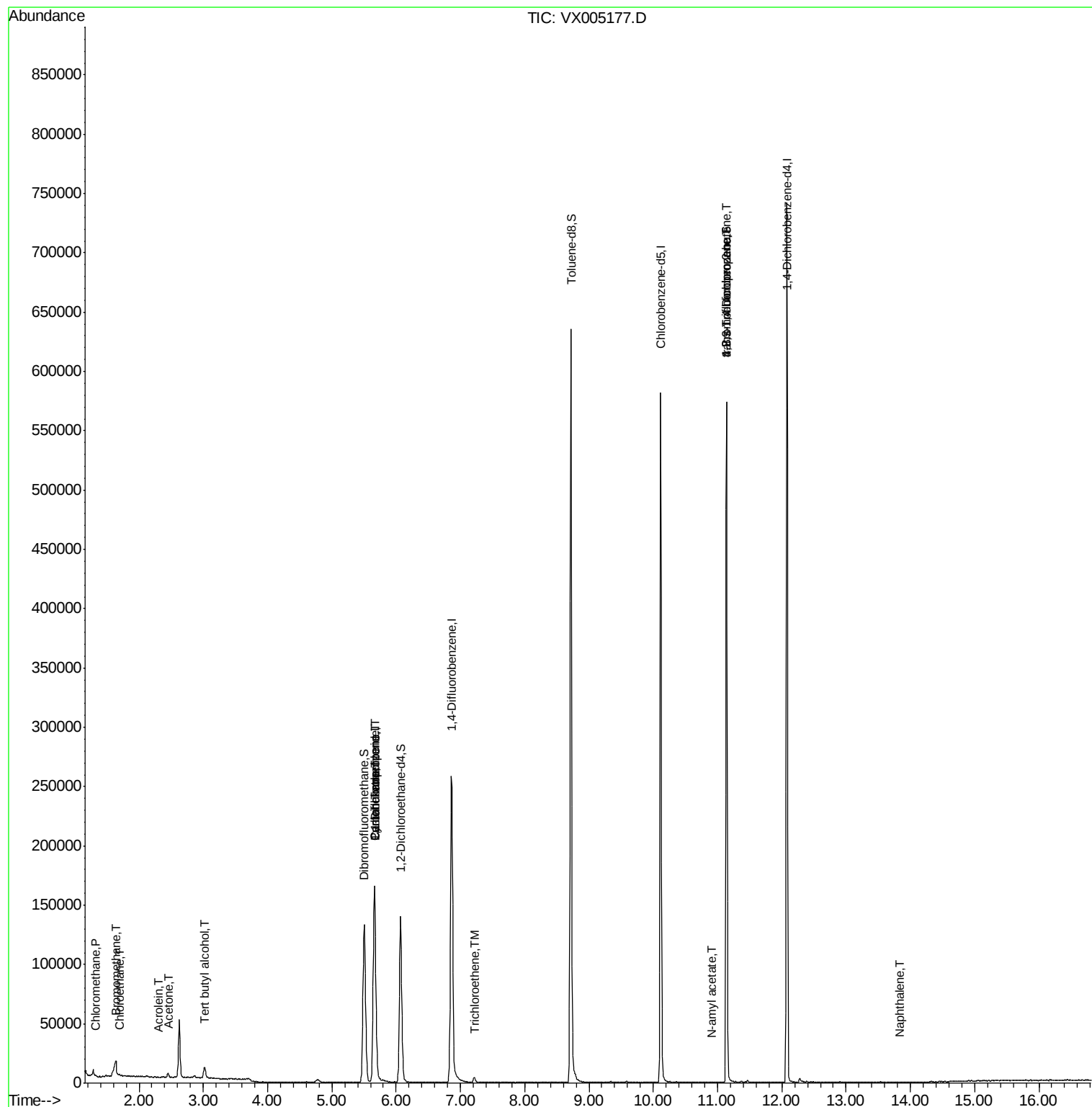
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	614	0.217	ug/l #	81
5) Bromomethane	1.64	94	548	0.349	ug/l	86
6) Chloroethane	1.70	64	3845	0.350	ug/l #	50
11) Tert butyl alcohol	3.02	59	5938	8.699	ug/l #	81
13) Acrolein	2.29	56	134	0.276	ug/l #	77
16) Acetone	2.45	43	3827	2.685	ug/l #	77
20) Methylene Chloride	2.86	84	894	Below Cal	#	85
31) Cyclohexane	5.67	56	3121	1.005	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	11611	3.729	ug/l #	45
38) Carbon Tetrachloride	5.67	117	15323	4.682	ug/l #	18
44) Trichloroethene	7.21	130	1660	0.693	ug/l	91
74) N-amyl acetate	10.90	43	25	1.752	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	70665	20.516	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	61	Below Cal	#	29
81) trans-1,4-Dichloro-2-buten	11.14	75	70665	55.717	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	188	Below Cal	#	31
95) Naphthalene	13.83	128	308	0.743	ug/l #	69

(#) = 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. 0.01 min

Lab File: VX005177.D

Acq: 09 Oct 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

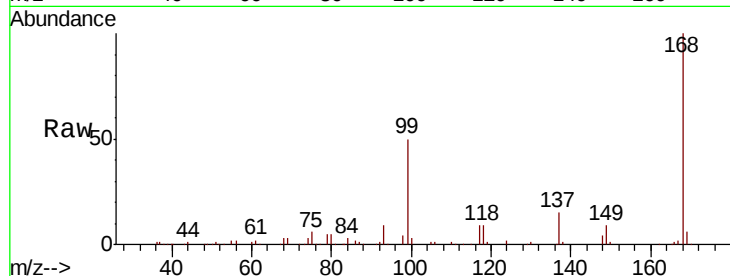
SA-TW513-1014

Tot Ion:168 Resp: 170903

Ion Ratio Lower Upper

168 100

99 49.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

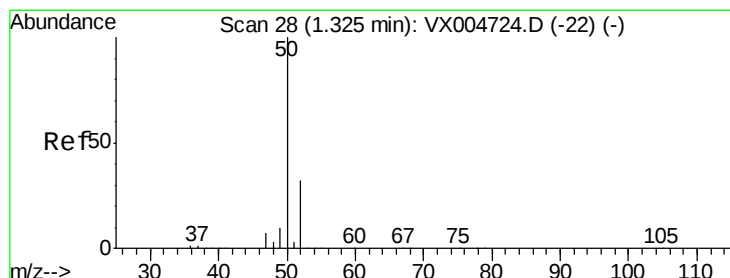
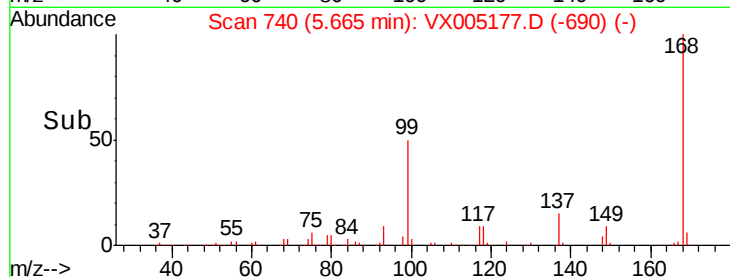
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.217 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005177.D

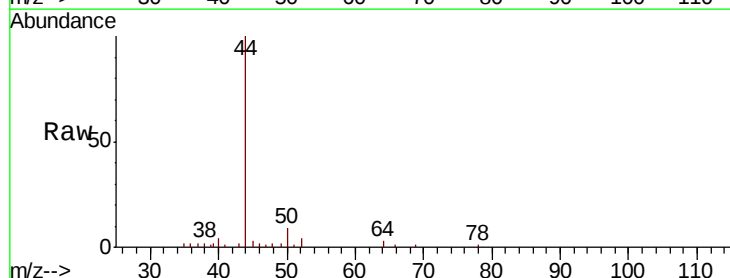
Acq: 09 Oct 2018 23:24

Tgt Ion: 50 Resp: 614

Ion Ratio Lower Upper

50 100

52 42.7 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

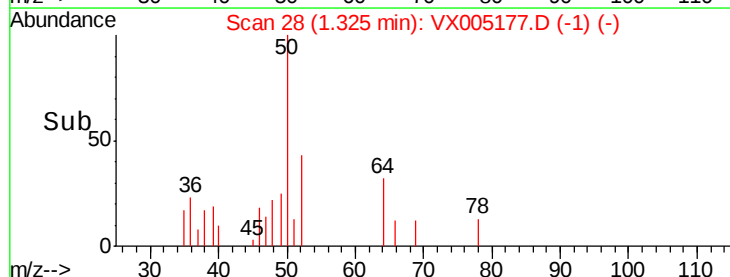
200

100

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: 0.349 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005177.D

Acq: 09 Oct 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

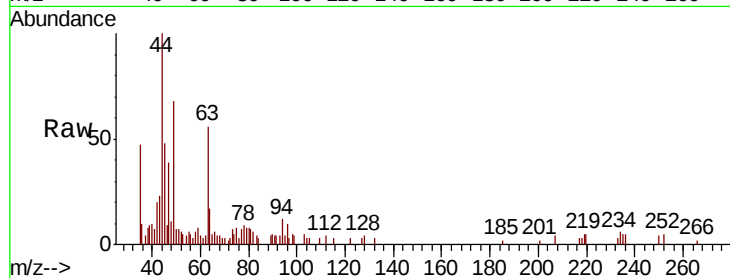
SA-TW513-1014

Tot Ion: 94 Resp: 548

Ion Ratio Lower Upper

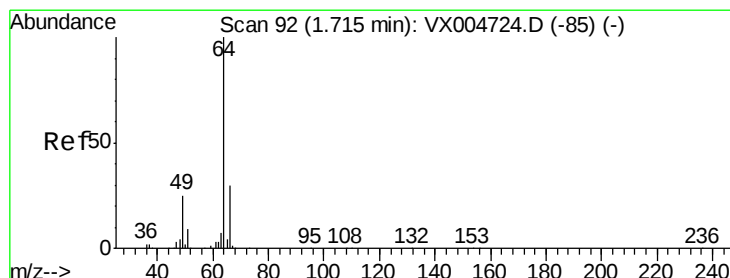
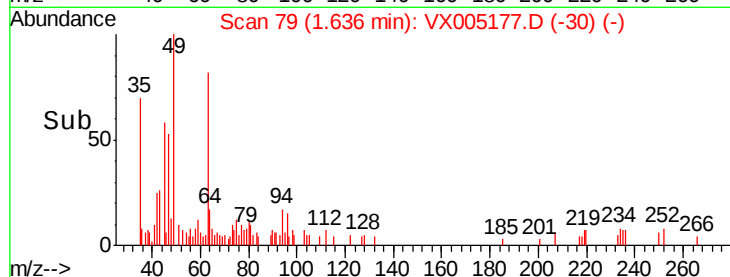
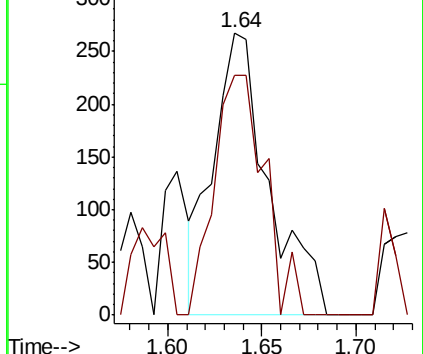
94 100

96 85.1 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.350 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX005177.D

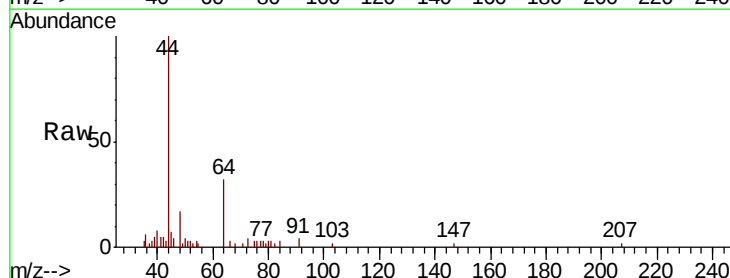
Acq: 09 Oct 2018 23:24

Tgt Ion: 64 Resp: 3845

Ion Ratio Lower Upper

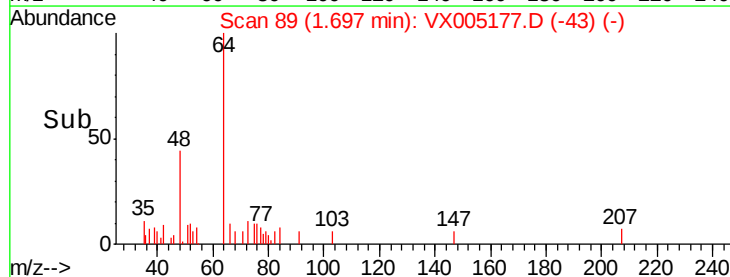
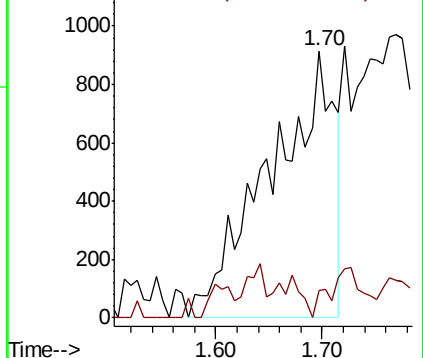
64 100

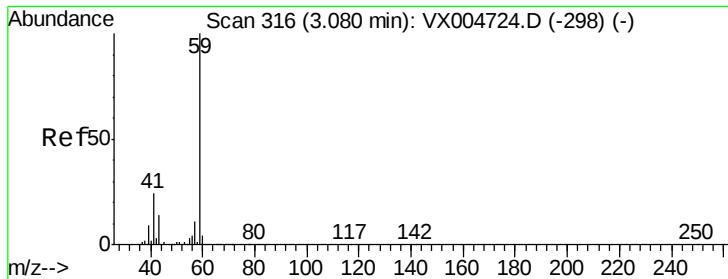
66 3.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



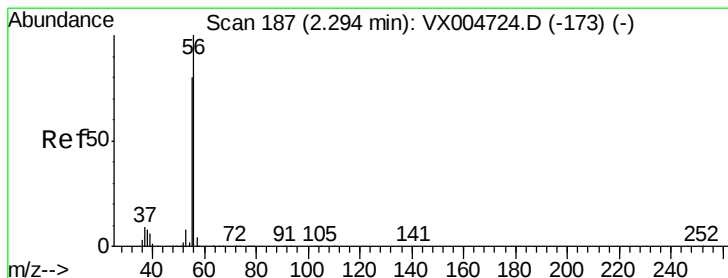
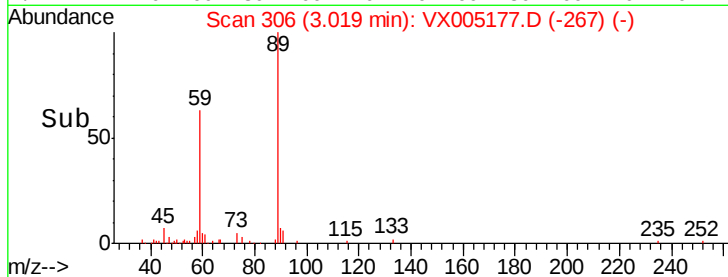
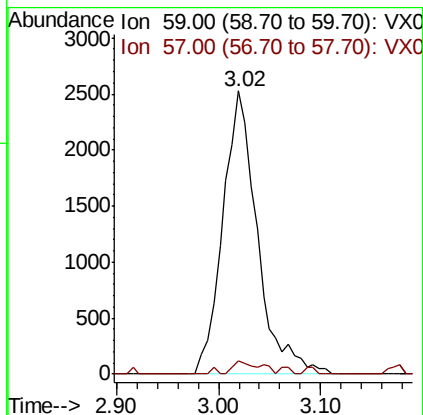
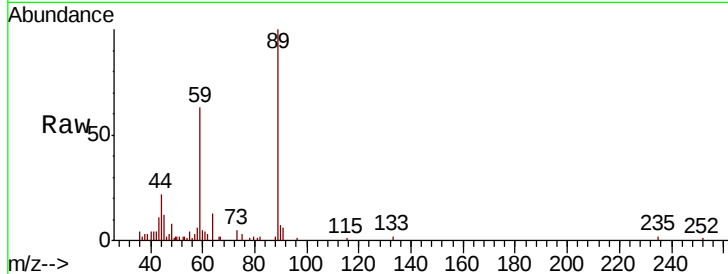


#11

Tert butyl alcohol
 Concen: 8.699 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005177.D
 Acq: 09 Oct 2018 23:24

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW513-1014

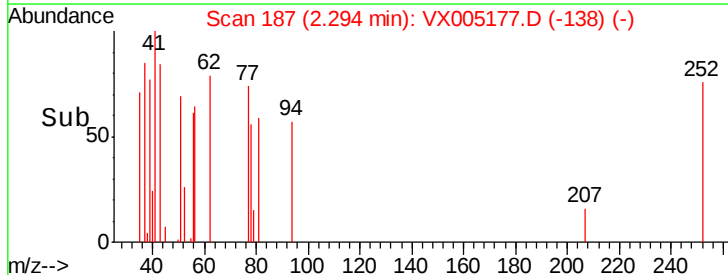
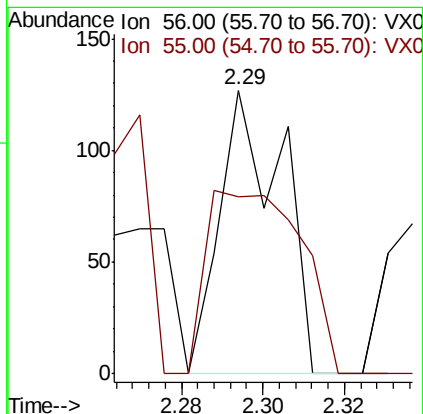
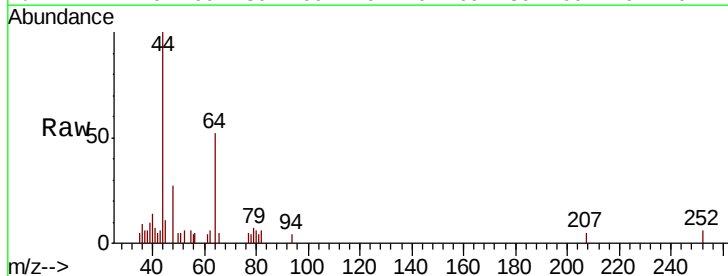
Tot Ion: 59 Resp: 5938
 Ion Ratio Lower Upper
 59 100
 57 3.6 8.6 12.8#

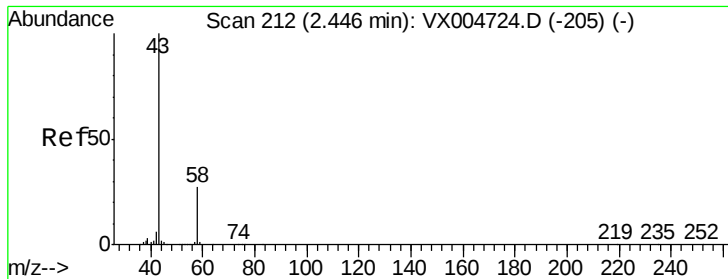


#13

Acrolein
 Concen: 0.276 ug/l
 RT: 2.29 min Scan# 187
 Delta R.T. 0.00 min
 Lab File: VX005177.D
 Acq: 09 Oct 2018 23:24

Tgt Ion: 56 Resp: 134
 Ion Ratio Lower Upper
 56 100
 55 99.3 63.4 95.2#





#16

Acetone

Concen: 2.685 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005177.D

Acq: 09 Oct 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

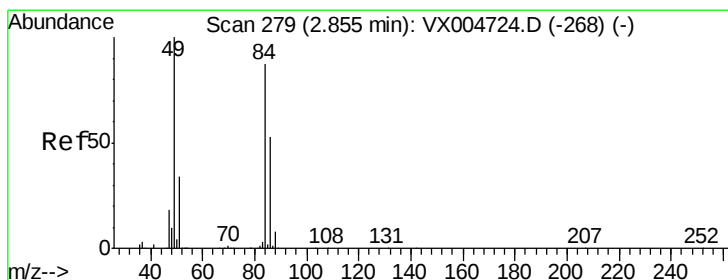
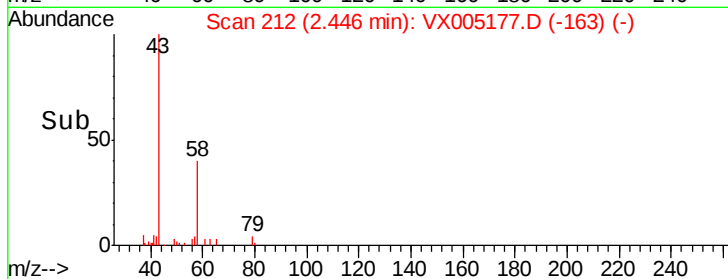
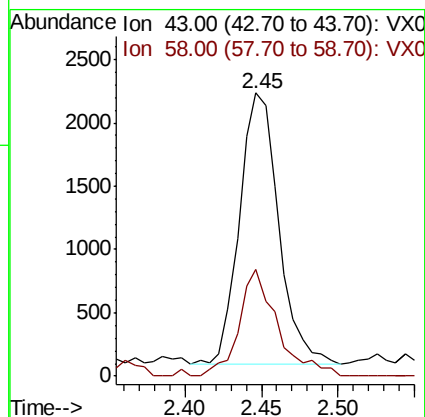
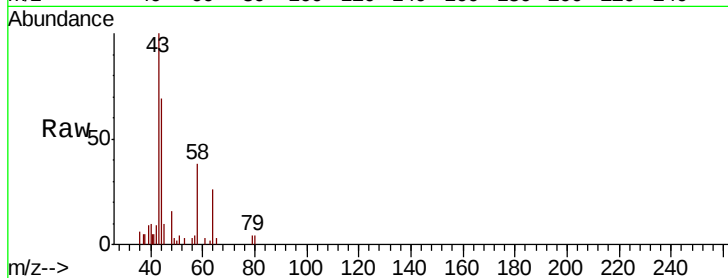
SA-TW513-1014

Tot Ion: 43 Resp: 3827

Ion Ratio Lower Upper

43 100

58 39.3 21.8 32.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005177.D

Acq: 09 Oct 2018 23:24

Tgt Ion: 84 Resp: 894

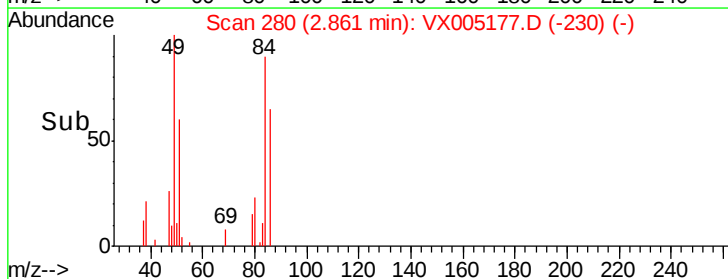
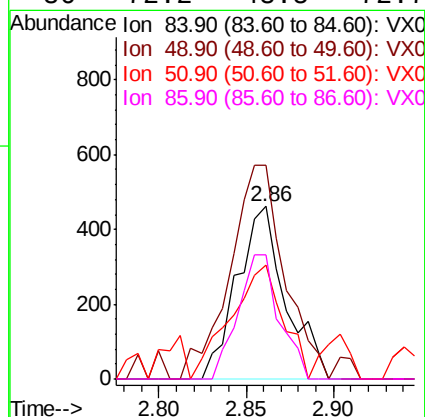
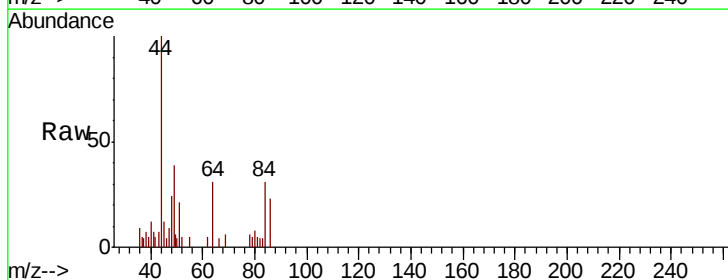
Ion Ratio Lower Upper

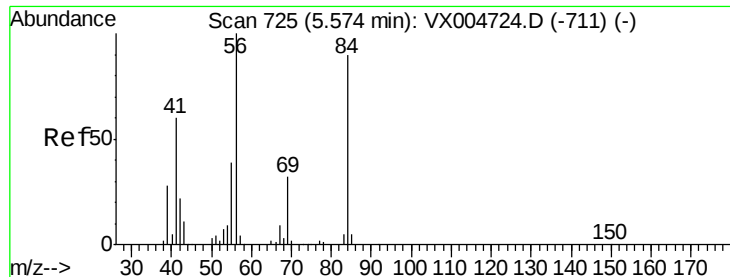
84 100

49 110.8 92.3 138.5

51 66.4 31.8 47.6#

86 72.2 48.5 72.7





#31

Cvclohexane

Concen: 1.005 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005177.D

Acq: 09 Oct 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

SA-TW513-1014

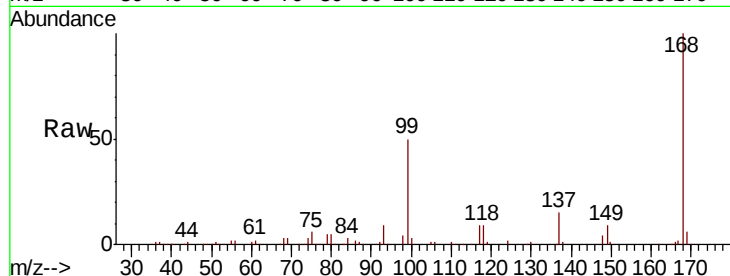
Tot Ion: 56 Resp: 3121

Ion Ratio Lower Upper

56 100

69 164.5 25.9 38.9#

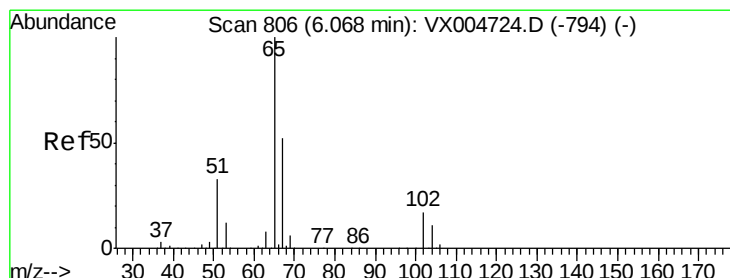
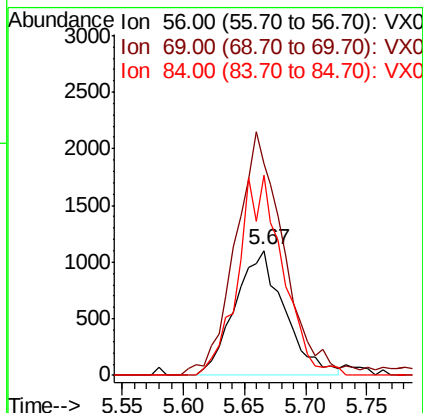
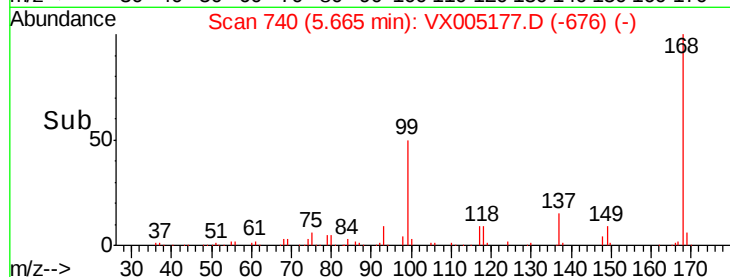
84 160.7 71.9 107.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.430 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005177.D

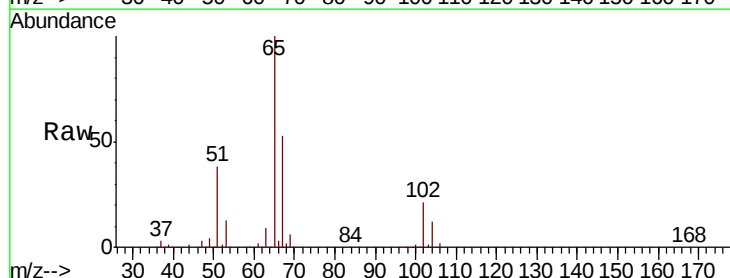
Acq: 09 Oct 2018 23:24

Tgt Ion: 65 Resp: 132884

Ion Ratio Lower Upper

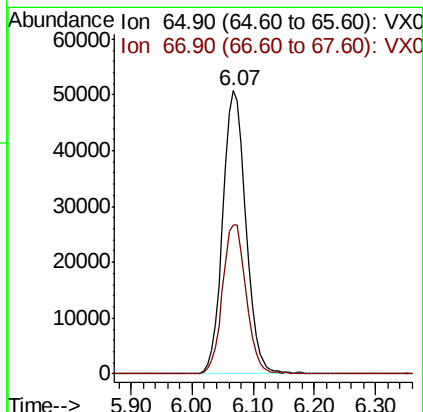
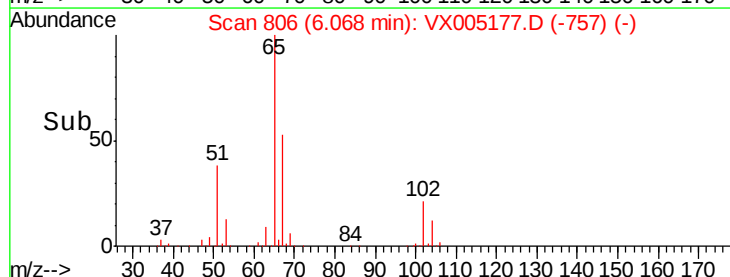
65 100

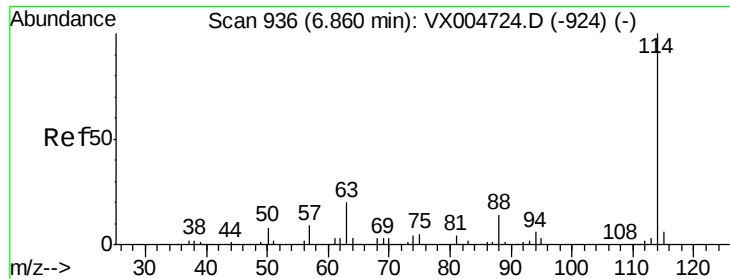
67 53.8 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

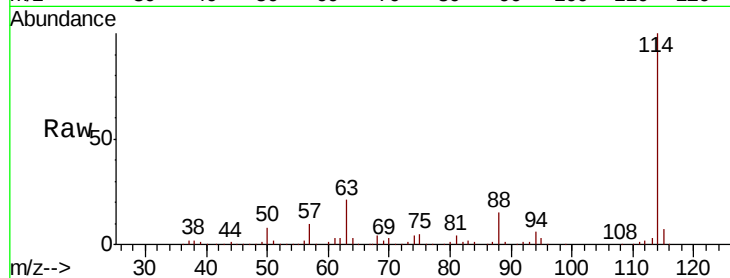




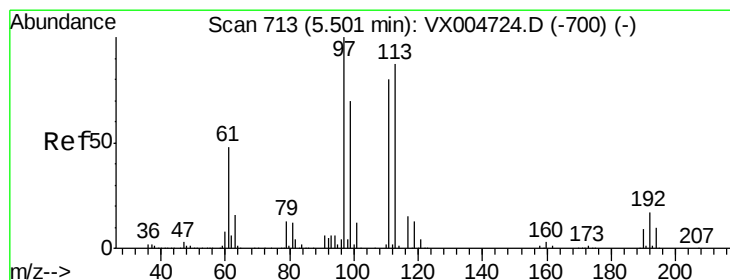
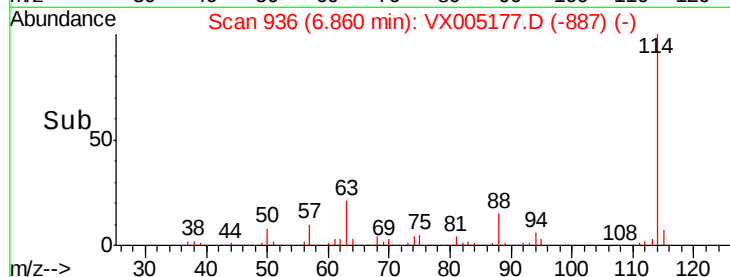
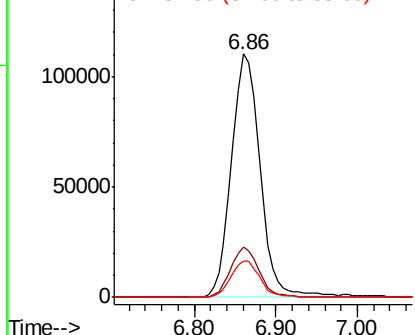
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005177.D
 Acq: 09 Oct 2018 23:24

Instrument :
 MSVOA_X
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 SA-TW513-1014

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	39.8
88	15.0	0.0	27.0

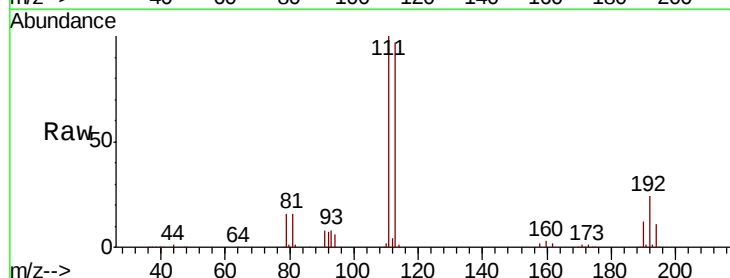


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

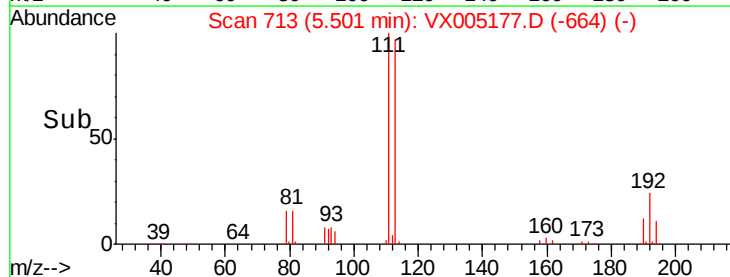
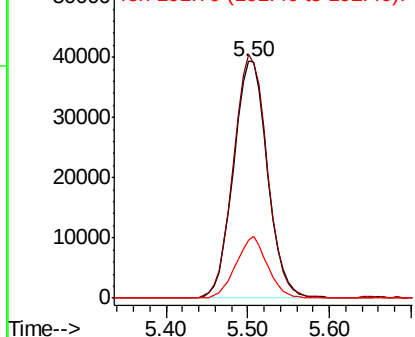


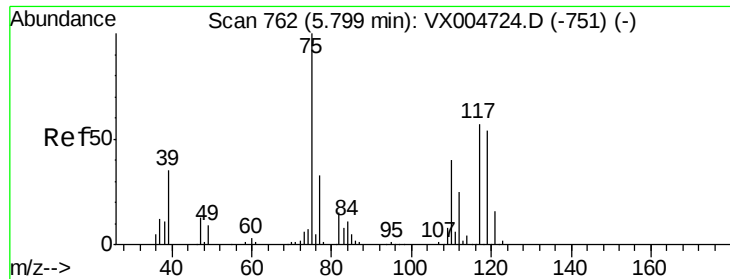
#35
 Dibromofluoromethane
 Concen: 49.752 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005177.D
 Acq: 09 Oct 2018 23:24

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	77.0	115.4
192	24.1	17.0	25.6



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

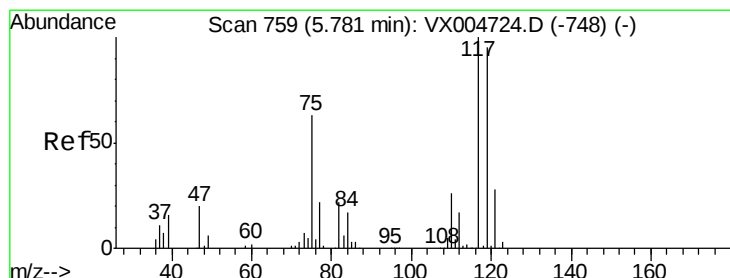
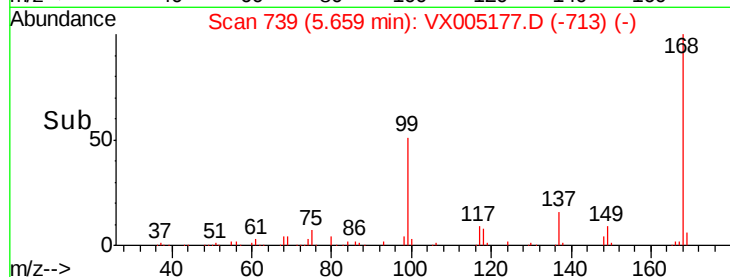
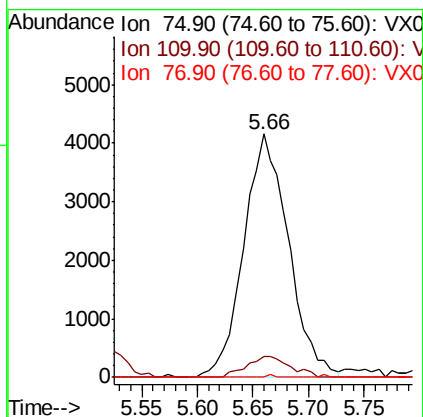
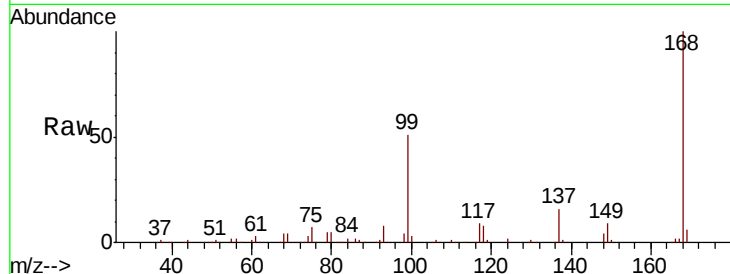




#36
 1,1-Dichloropropene
 Concen: 3.729 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005177.D
 Acq: 09 Oct 2018 23:24

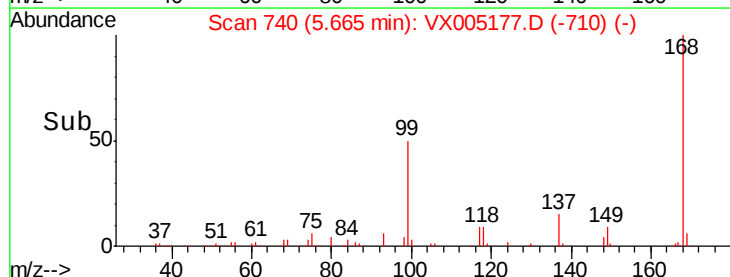
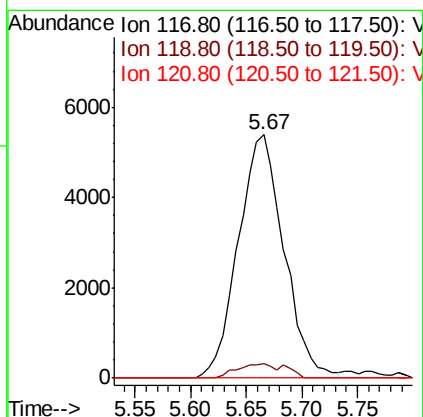
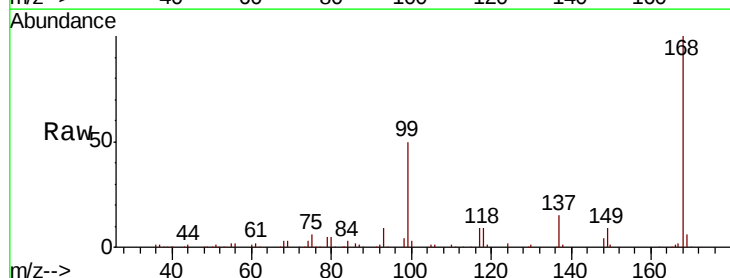
Instrument :
 MSVOA_X
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 SA-TW513-1014

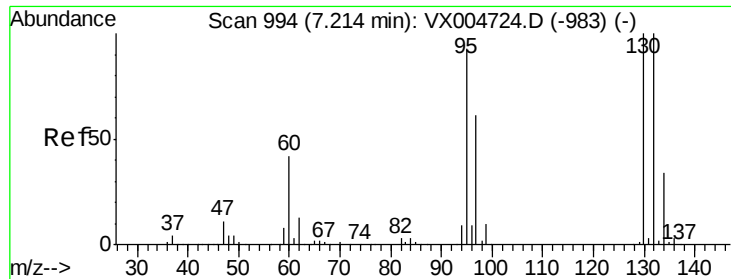
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	20.0	59.9#
77	0.2	27.1	40.7#



#38
 Carbon Tetrachloride
 Concen: 4.682 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005177.D
 Acq: 09 Oct 2018 23:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	75.2	112.8#
121	0.0	22.5	33.7#





#44

Trichloroethene

Concen: 0.693 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX005177.D

Acq: 09 Oct 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

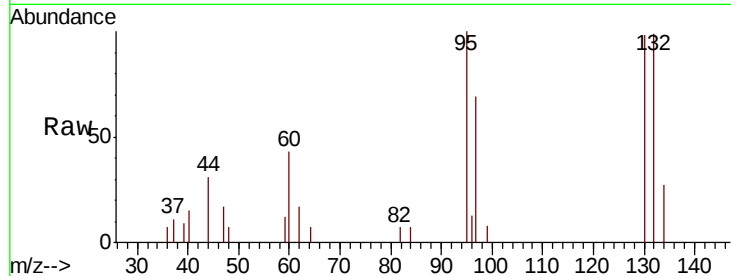
SA-TW513-1014

Tot Ion:130 Resp: 1660

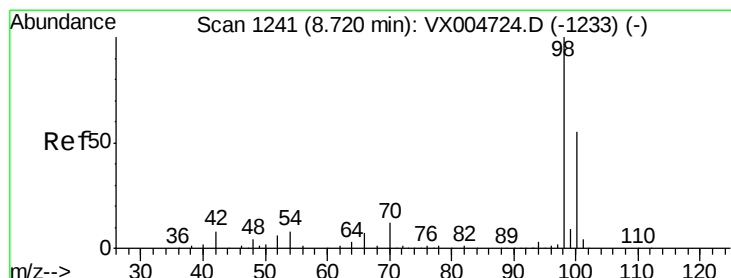
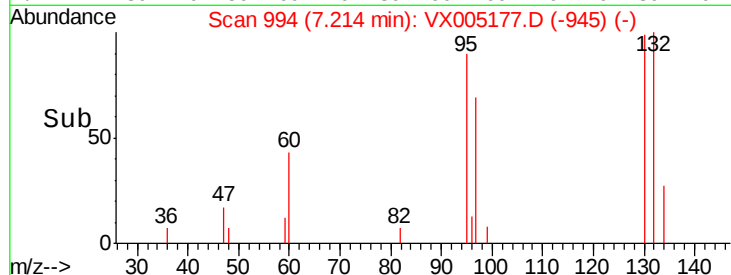
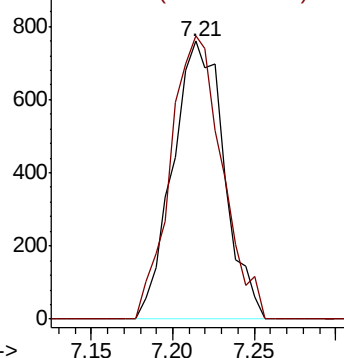
Ion Ratio Lower Upper

130 100

95 101.8 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 52.553 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX005177.D

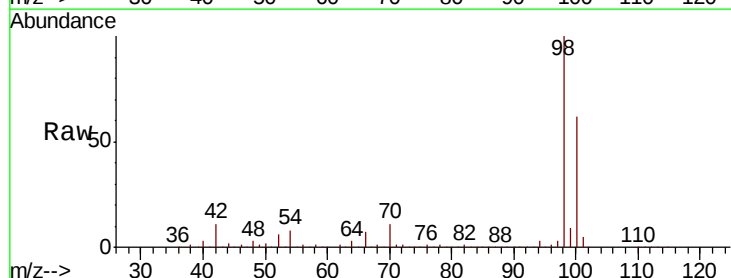
Acq: 09 Oct 2018 23:24

Tgt Ion: 98 Resp: 398687

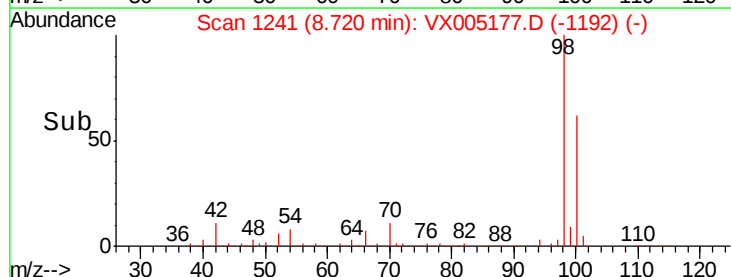
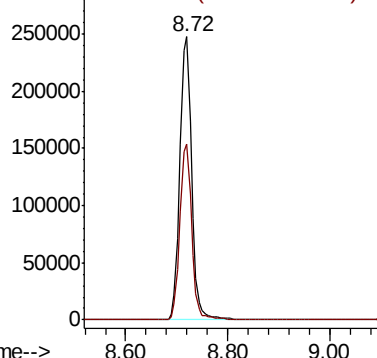
Ion Ratio Lower Upper

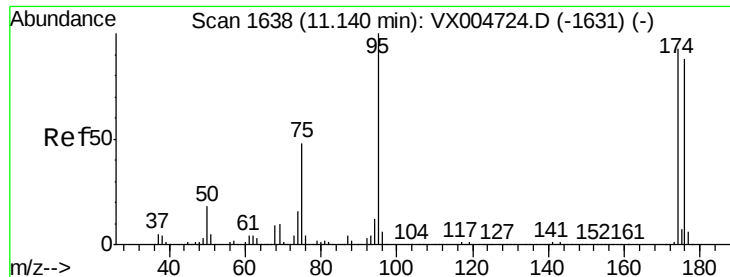
98 100

100 62.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.166 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005177.D

Acq: 09 Oct 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

SA-TW513-1014

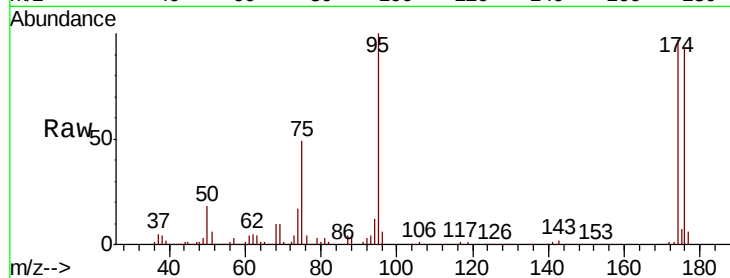
Tot Ion: 95 Resp: 142572

Ion Ratio Lower Upper

95 100

174 94.4 0.0 185.0

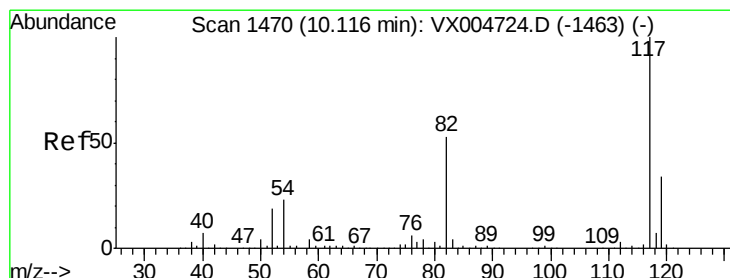
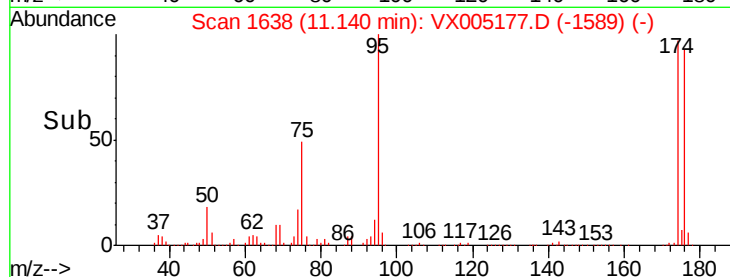
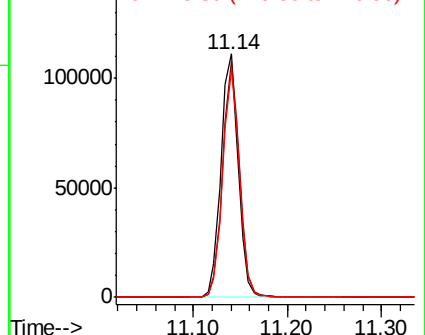
176 90.3 0.0 180.2



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: VX005177.D

Acq: 09 Oct 2018 23:24

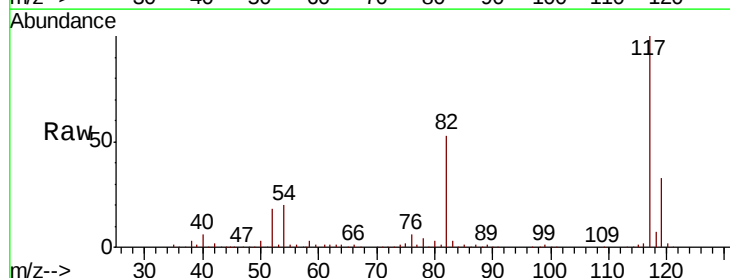
Tgt Ion: 117 Resp: 272891

Ion Ratio Lower Upper

117 100

82 53.2 42.2 63.4

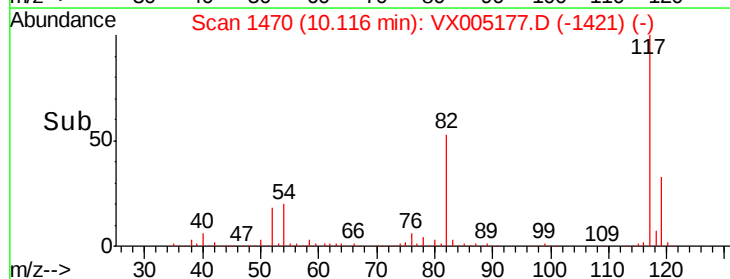
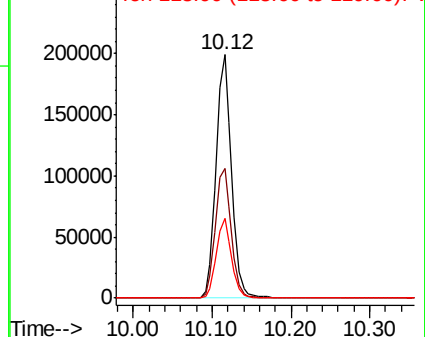
119 32.7 27.4 41.0

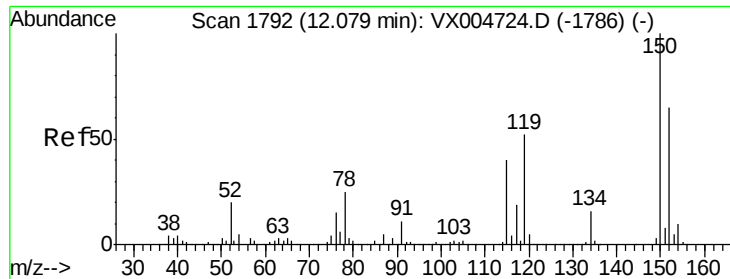


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX005177.D

Acq: 09 Oct 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

SA-TW513-1014

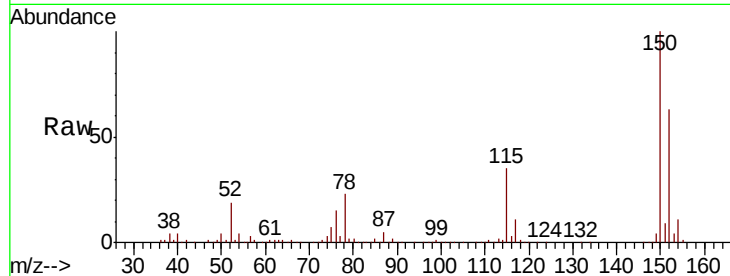
Tot Ion:152 Resp: 153677

Ion Ratio Lower Upper

152 100

115 54.8 40.2 120.6

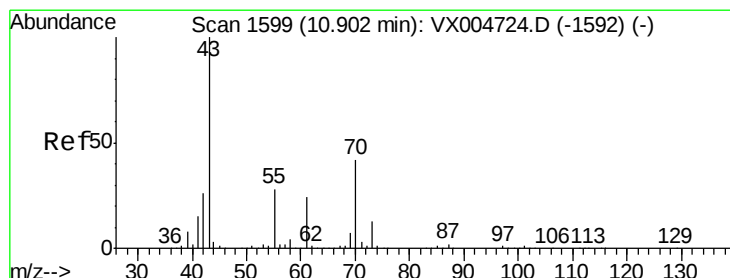
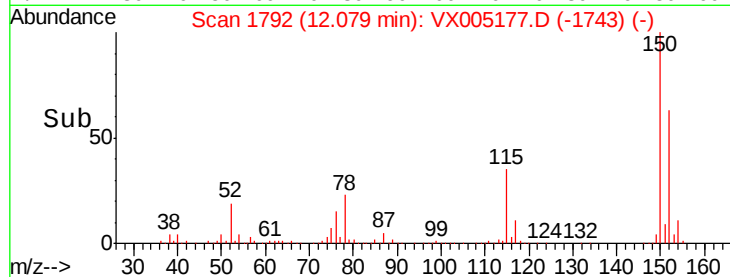
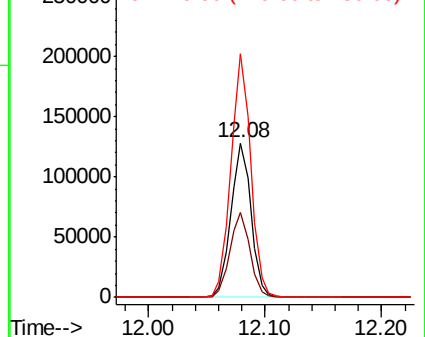
150 155.7 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.752 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VX005177.D

Acq: 09 Oct 2018 23:24

Tgt Ion: 43 Resp: 25

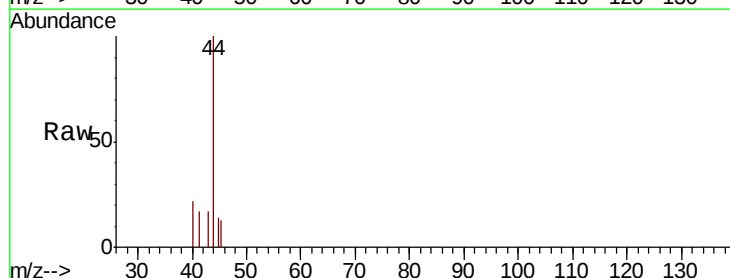
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

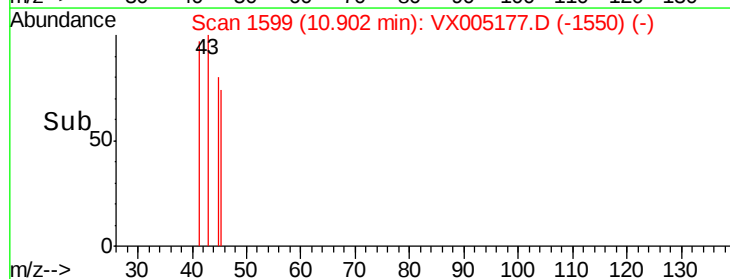
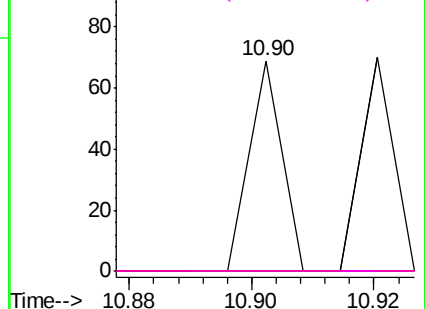


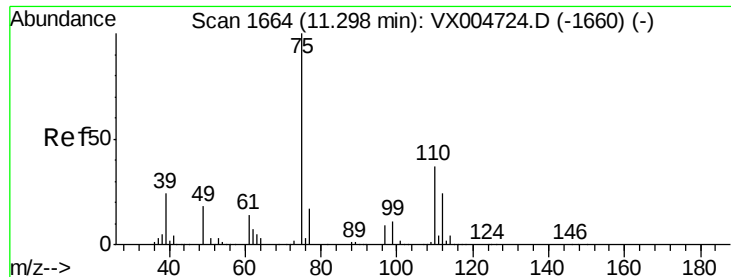
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

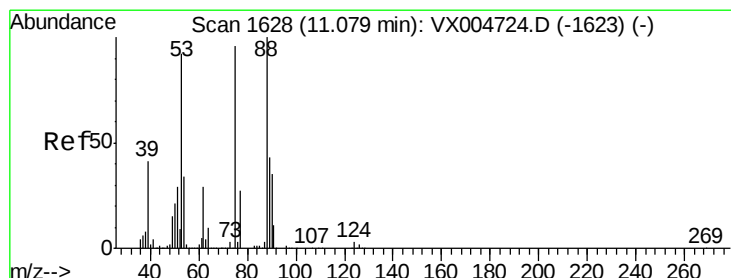
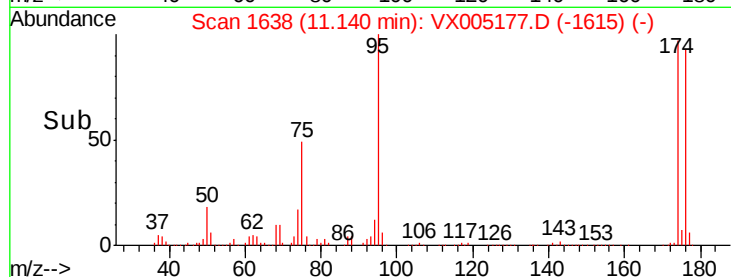
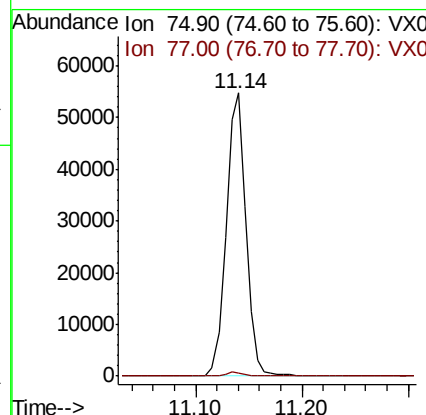
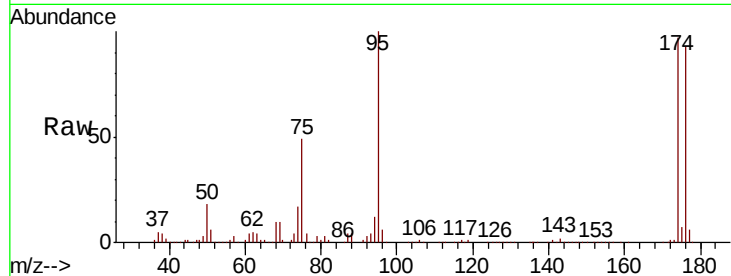




#76
 1,2,3-Trichloropropane
 Concen: 20.516 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005177.D
 Acq: 09 Oct 2018 23:24

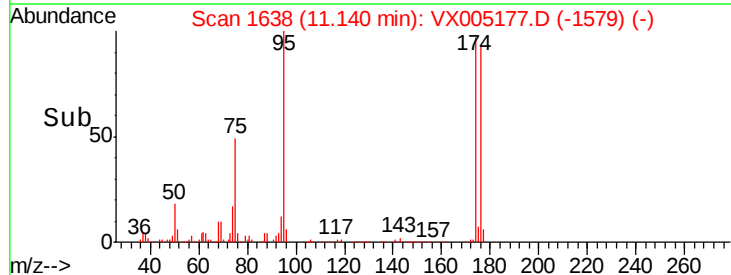
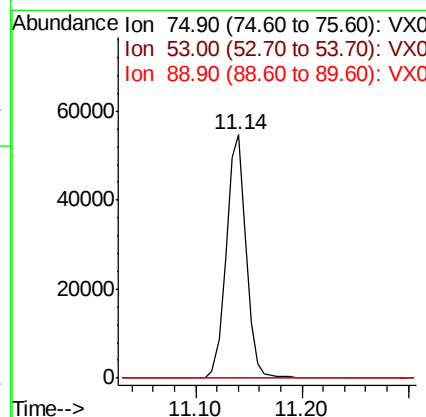
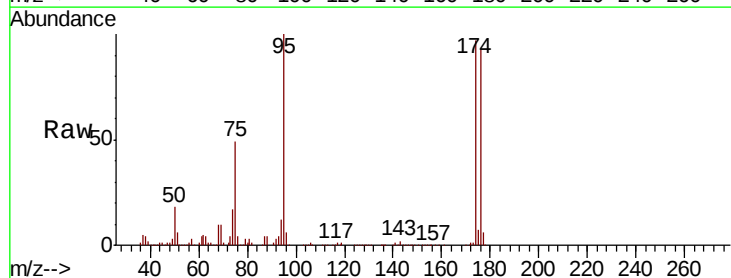
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW513-1014

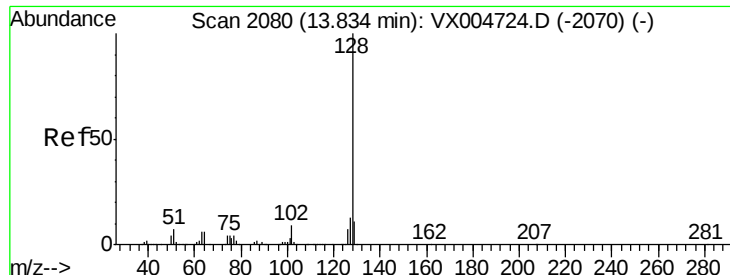
Tot Ion: 75 Resp: 70665
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.4 64.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.717 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX005177.D
 Acq: 09 Oct 2018 23:24

Tgt Ion: 75 Resp: 70665
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.2 120.4#
 89 0.0 37.1 55.7#





#95

Naphthalene

Concen: 0.743 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005177.D

Acq: 09 Oct 2018 23:24

Instrument :

MSVOA_X

ClientSampleId :

SA-TW513-1014

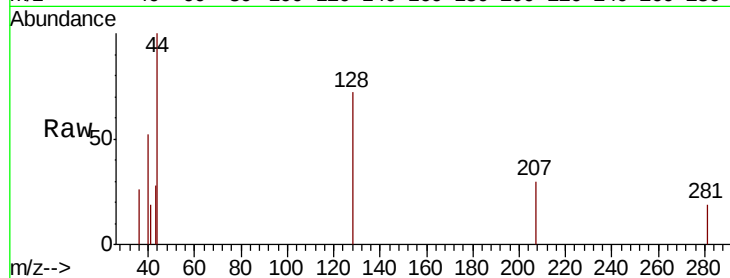
Tot Ion:128 Resp: 308

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

