

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121718\
 Data File : VX006571.D
 Acq On : 17 Dec 2018 14:32
 Operator : JC/MD
 Sample : J6405-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 18 00:39:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	679889	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1068015	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	975496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	457312	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	371902	53.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.16%	
35) Dibromofluoromethane	5.50	113	324995	47.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.00%	
50) Toluene-d8	8.71	98	1266992	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
62) 4-Bromofluorobenzene	11.13	95	463900	48.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.88%	

Target Compounds

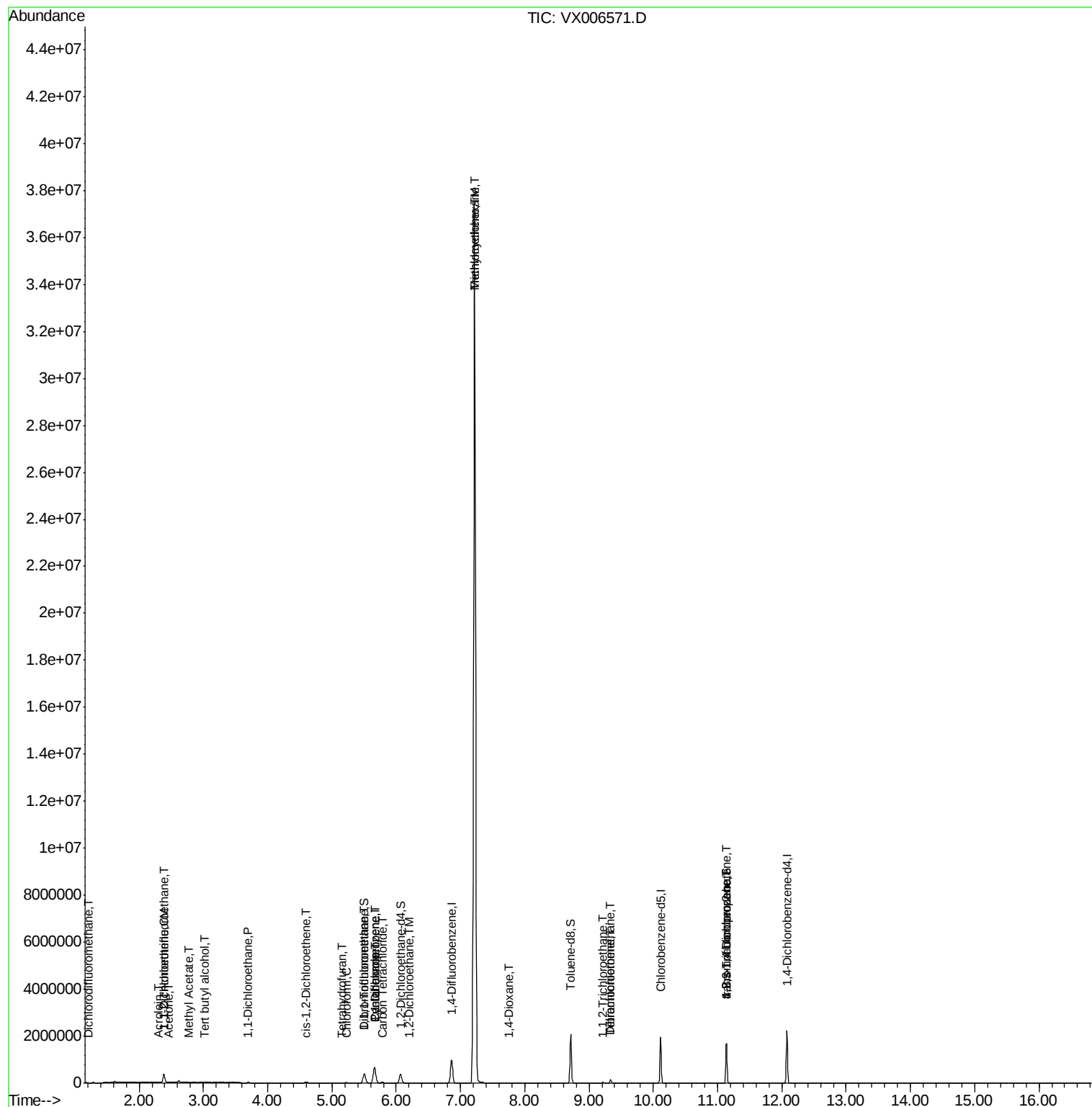
						Qvalue
2) Dichlorodifluoromethane	1.20	85	2128	0.320	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.39	101	107634	16.748	ug/l	98
11) Tert butyl alcohol	3.02	59	15017	7.912	ug/l #	77
12) 1,1-Dichloroethene	2.38	96	48607	7.901	ug/l	86
13) Acrolein	2.29	56	339	0.327	ug/l	99
16) Acetone	2.45	43	3737	1.147	ug/l #	66
18) Methyl Acetate	2.78	43	2963	0.272	ug/l #	79
24) 1,1-Dichloroethane	3.70	63	16148	1.488	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	27330	3.737	ug/l	91
29) Tetrahydrofuran	5.17	42	2433	0.753	ug/l #	72
30) Chloroform	5.21	83	14637	1.284	ug/l	98
31) Cyclohexane	5.67	56	11661	1.163	ug/l #	1
32) 1,1,1-Trichloroethane	5.50	97	5246	0.484	ug/l #	25
36) 1,1-Dichloropropene	5.66	75	45922	5.106	ug/l #	49
38) Carbon Tetrachloride	5.79	117	16850	1.593	ug/l #	91
39) Methylcyclohexane	7.22	83	171055	14.652	ug/l #	1
42) 1,2-Dichloroethane	6.21	62	3107	0.352	ug/l	80
44) Trichloroethene	7.22	130	14466424	1772.753	ug/l	92
49) 1,4-Dioxane	7.76	88	4158	20.651	ug/l #	83
55) 1,1,2-Trichloroethane	9.21	97	6888	0.957	ug/l	93
60) Dibromochloromethane	9.34	129	22870	2.576	ug/l #	11
64) Tetrachloroethene	9.34	164	25311	3.445	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	216532	24.531	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	216532	57.568	ug/l #	15

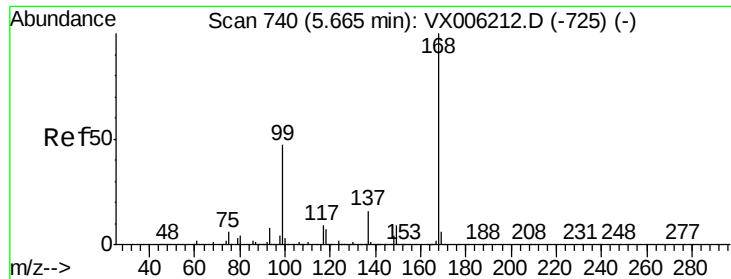
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

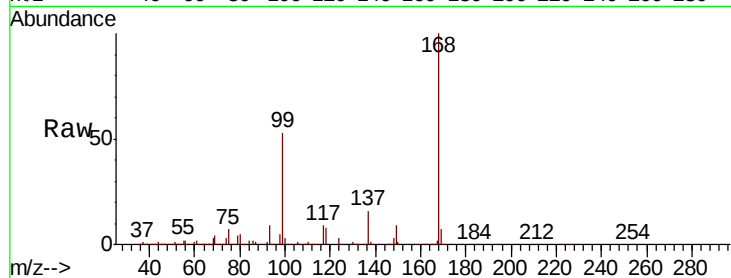
ClientSampleId :

Tot Ion:168 Resp: 679889

Ion Ratio Lower Upper

168 100

99 53.4 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

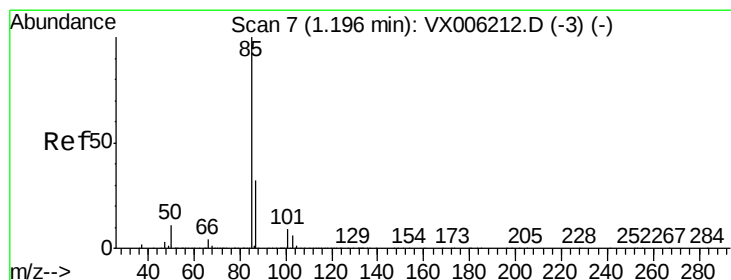
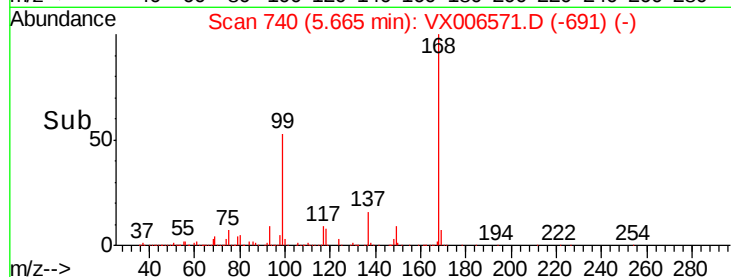
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.320 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006571.D

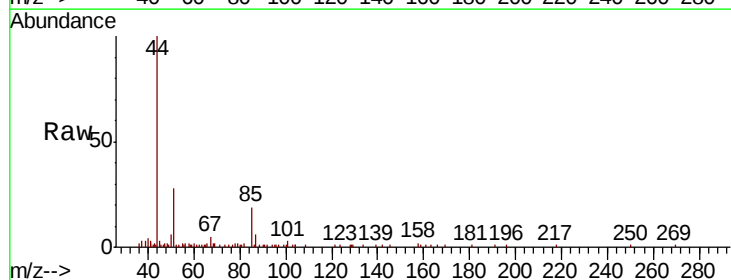
Acq: 17 Dec 2018 14:32

Tgt Ion: 85 Resp: 2128

Ion Ratio Lower Upper

85 100

87 30.4 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

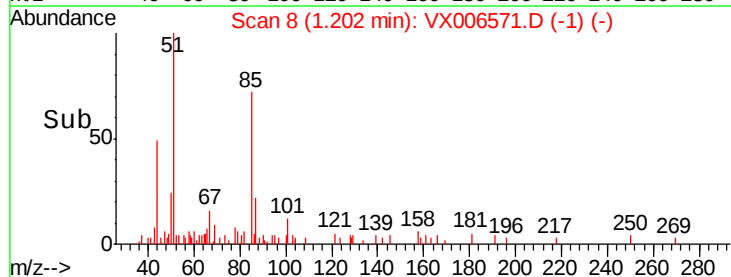
1500

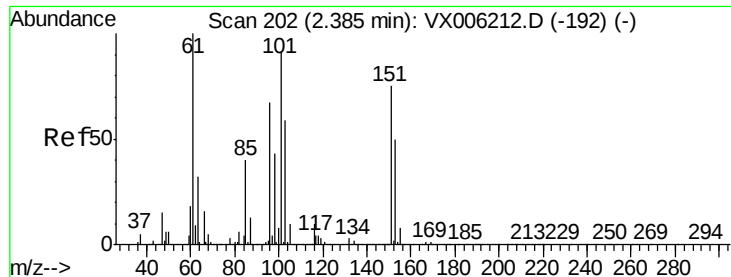
1000

500

0

Time--> 1.15 1.20 1.25





#9

1,1,2-Trichlorotrifluoroethane

Concen: 16.748 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

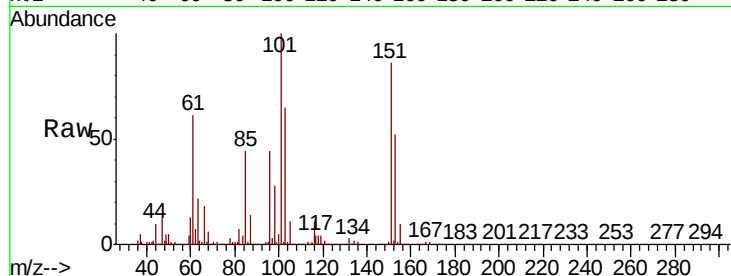
Tot Ion:101 Resp: 107634

Ion Ratio Lower Upper

101 100

85 42.7 35.5 53.3

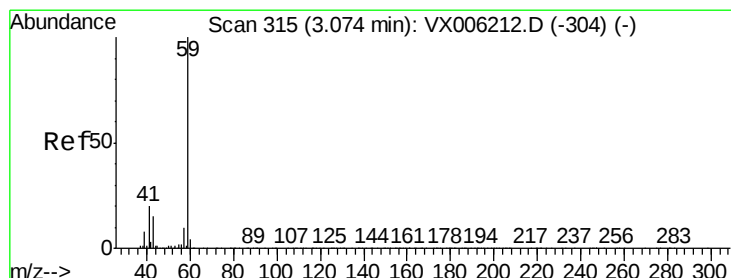
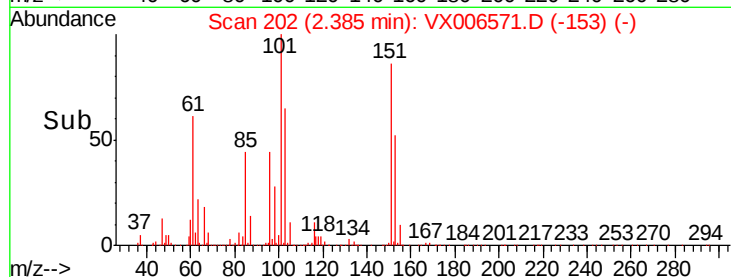
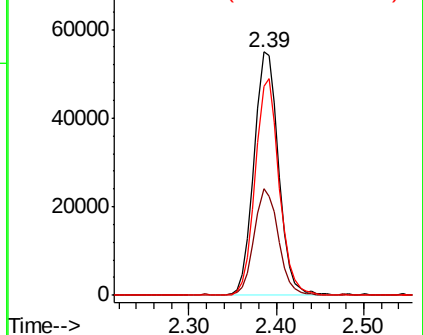
151 86.7 68.6 103.0



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



#11

Tert butyl alcohol

Concen: 7.912 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006571.D

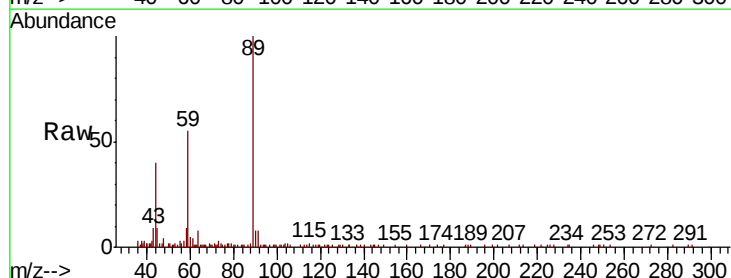
Acq: 17 Dec 2018 14:32

Tgt Ion: 59 Resp: 15017

Ion Ratio Lower Upper

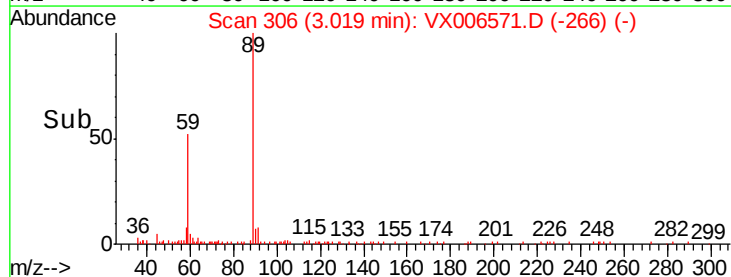
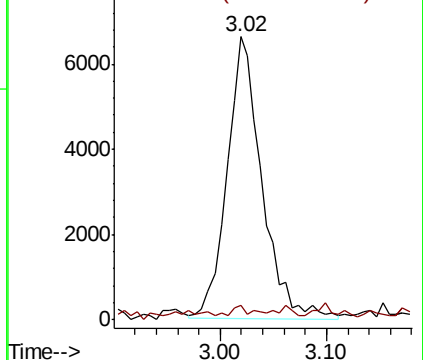
59 100

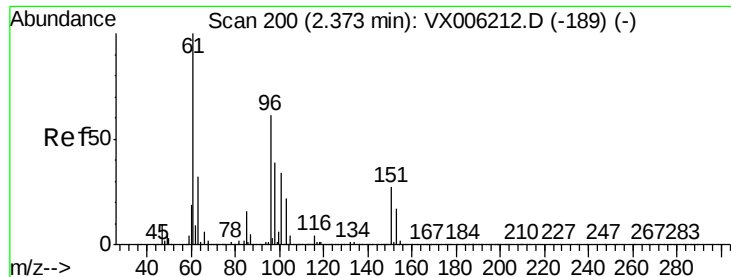
57 1.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 7.901 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampled :

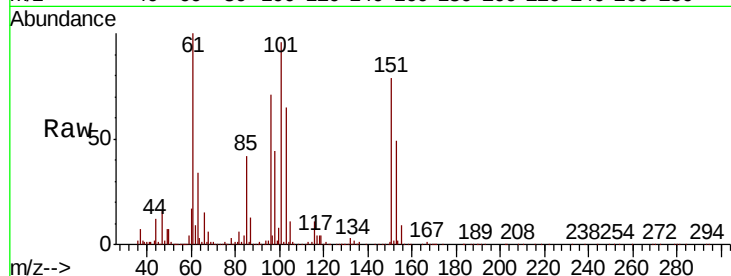
Tot Ion: 96 Resp: 48607

Ion Ratio Lower Upper

96 100

61 140.8 131.7 197.5

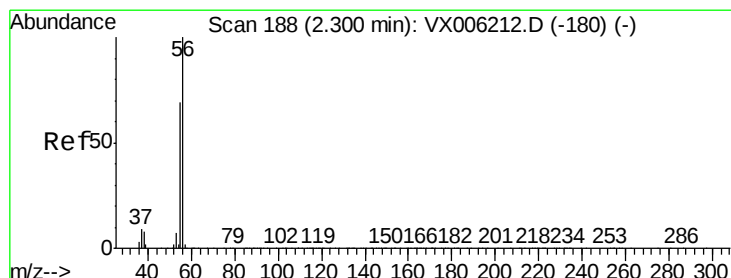
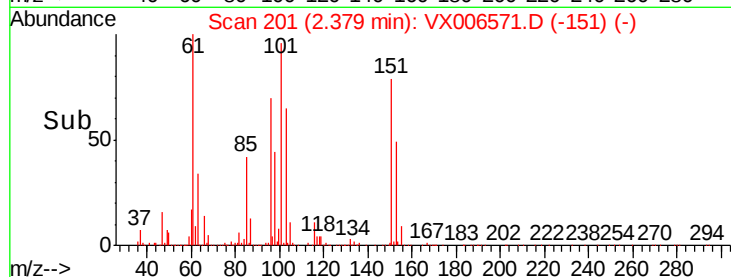
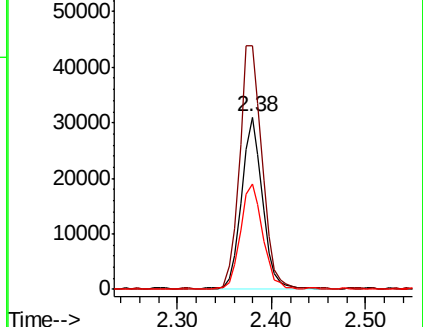
98 61.3 51.8 77.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.327 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX006571.D

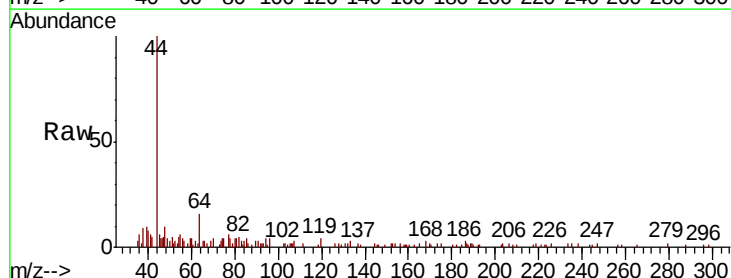
Acq: 17 Dec 2018 14:32

Tgt Ion: 56 Resp: 339

Ion Ratio Lower Upper

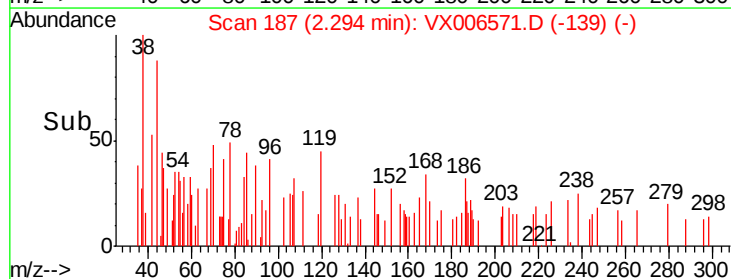
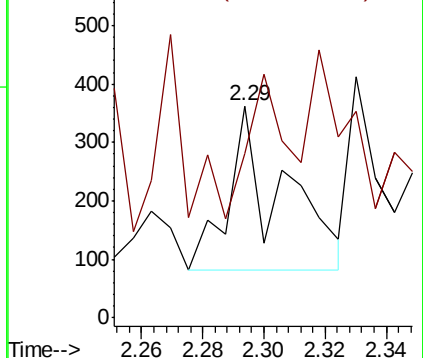
56 100

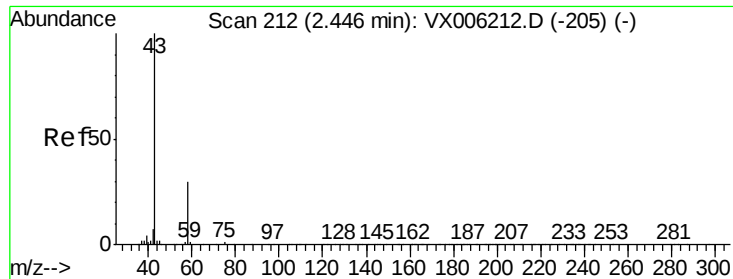
55 71.7 57.8 86.6



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

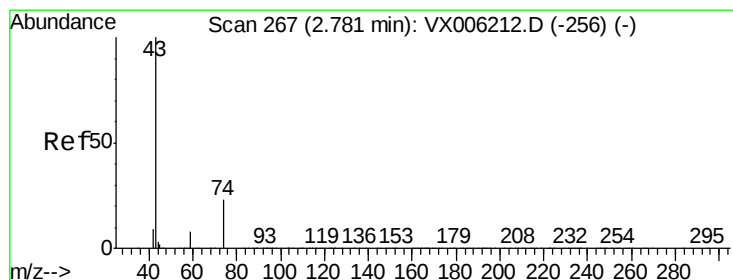
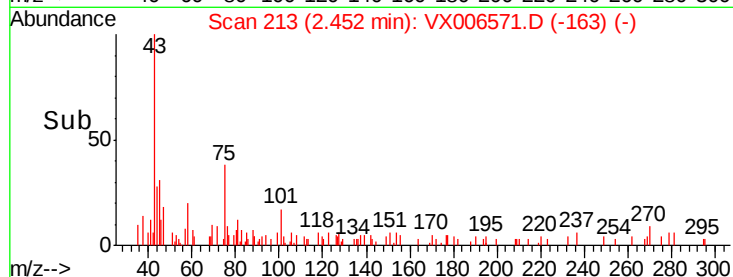
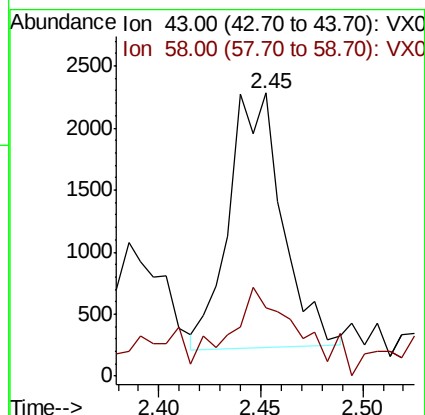
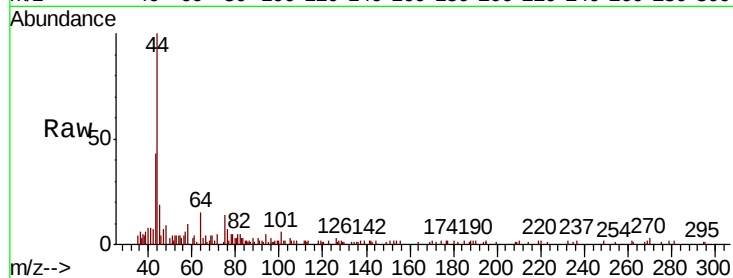




#16
Acetone
Concen: 1.147 ug/l
RT: 2.45 min Scan# 213
Delta R.T. 0.01 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

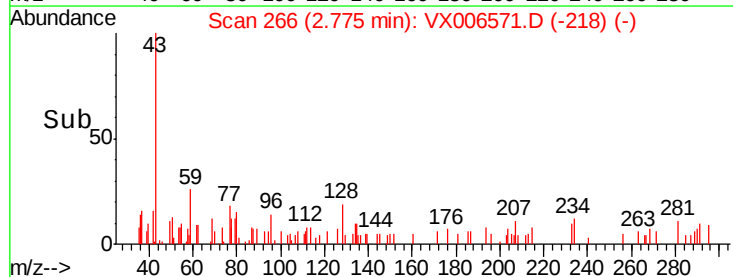
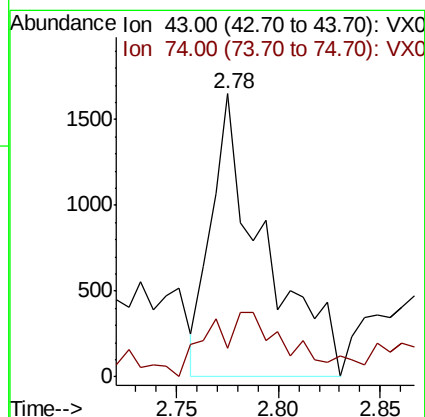
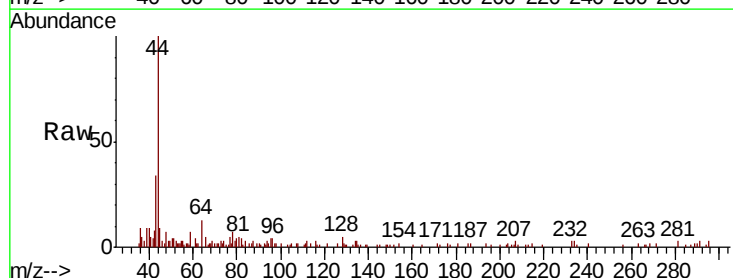
Instrument :
MSVOA_X
ClientSampleId :

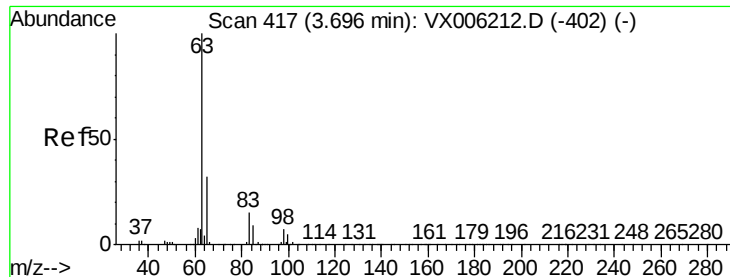
Tot Ion: 43 Resp: 3737
Ion Ratio Lower Upper
43 100
58 11.8 24.0 36.0#



#18
Methyl Acetate
Concen: 0.272 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

Tgt Ion: 43 Resp: 2963
Ion Ratio Lower Upper
43 100
74 32.7 17.9 26.9#





#24

1,1-Dichloroethane

Concen: 1.488 ug/l

RT: 3.70 min Scan# 417

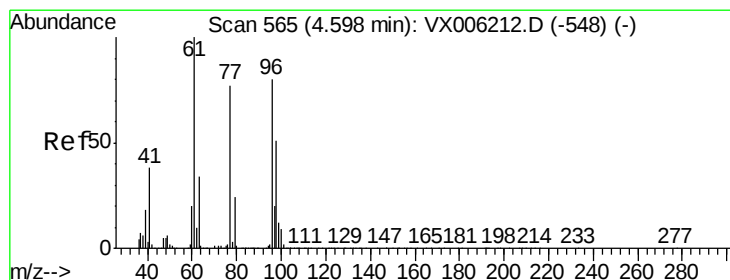
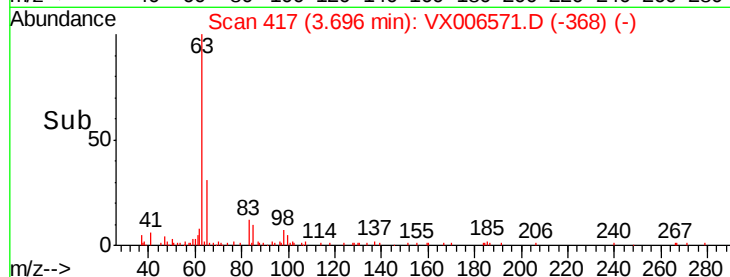
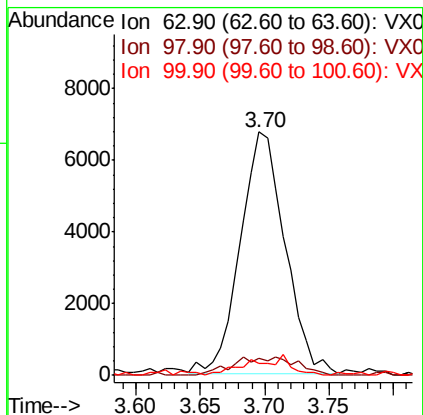
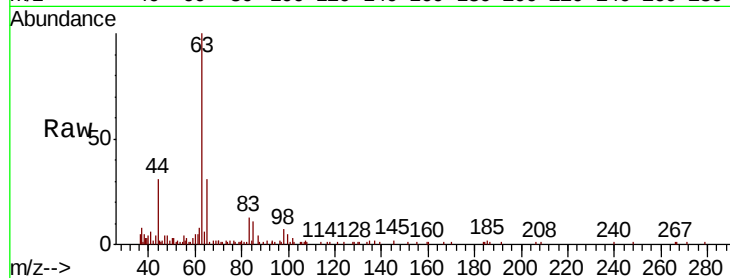
Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	63	Resp:	16148
Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.8	11.4
100	3.7	2.5	7.4



#27

cis-1,2-Dichloroethene

Concen: 3.737 ug/l

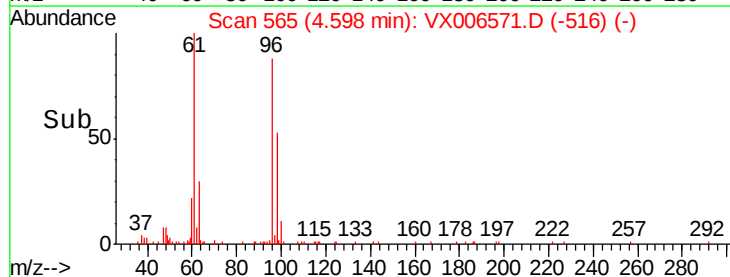
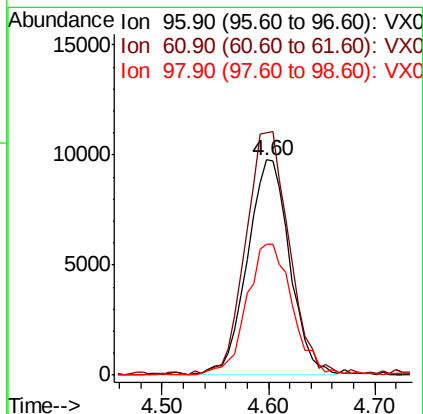
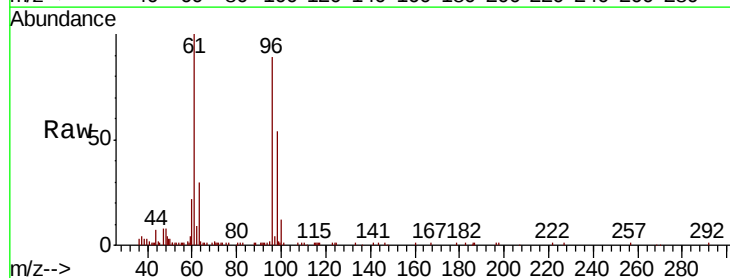
RT: 4.60 min Scan# 565

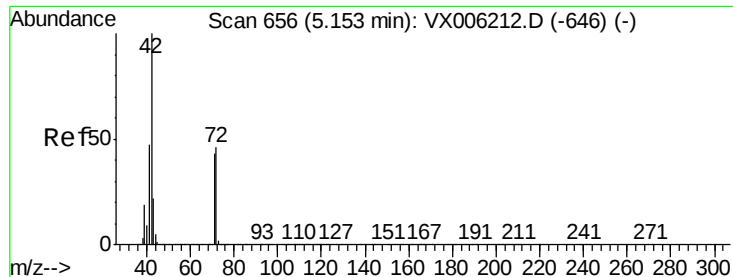
Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Tgt Ion:	96	Resp:	27330
Ion	Ratio	Lower	Upper
96	100		
61	115.9	0.0	265.0
98	65.1	0.0	130.2

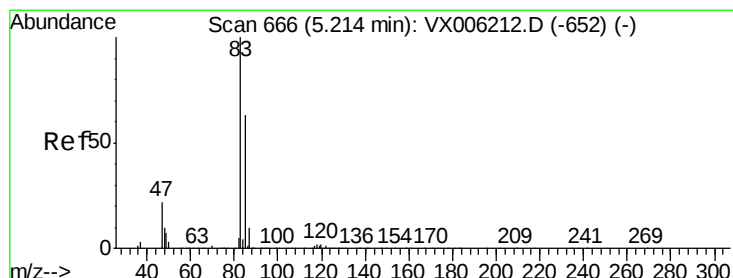
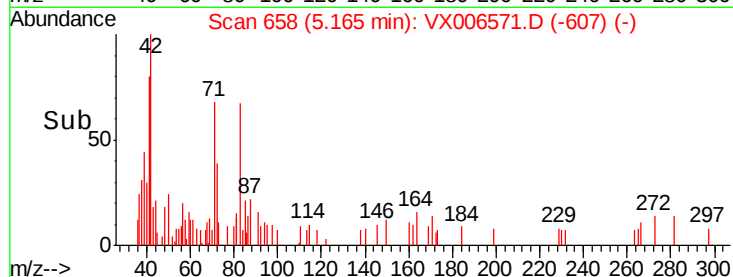
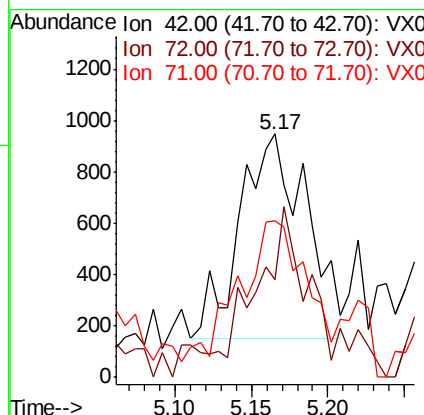
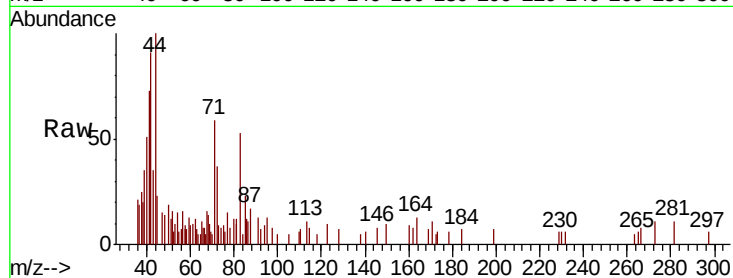




#29
Tetrahydrofuran
Concen: 0.753 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

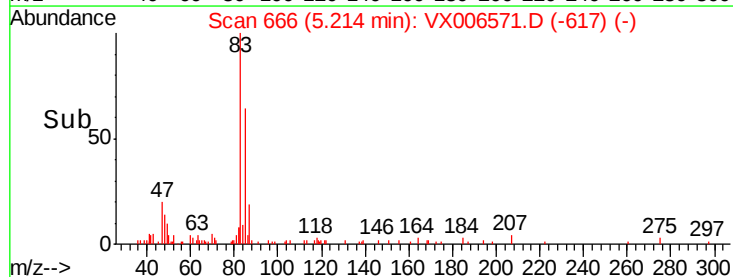
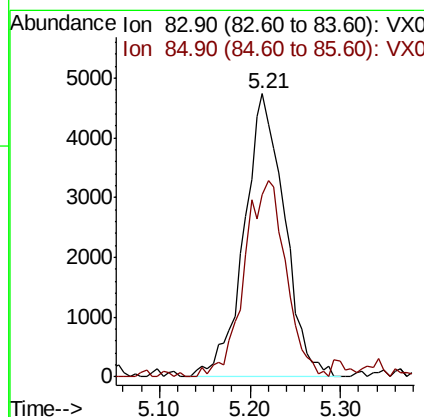
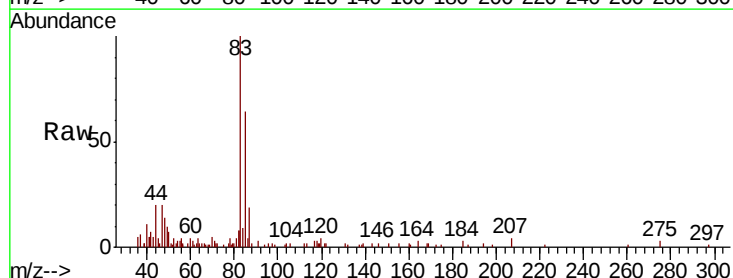
Instrument :
MSVOA_X
ClientSampled :

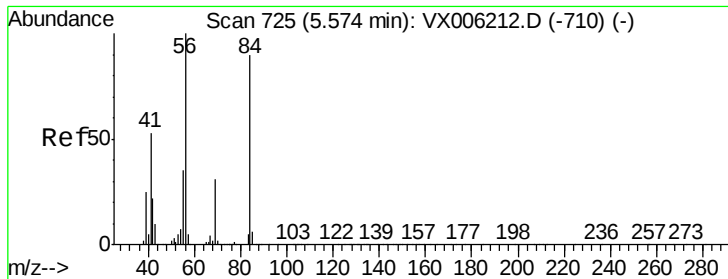
Tot Ion: 42 Resp: 2433
Ion Ratio Lower Upper
42 100
72 48.1 37.8 56.8
71 81.3 35.2 52.8#



#30
Chloroform
Concen: 1.284 ug/l
RT: 5.21 min Scan# 666
Delta R.T. -0.00 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

Tgt Ion: 83 Resp: 14637
Ion Ratio Lower Upper
83 100
85 64.4 50.3 75.5





#31

Cyclohexane

Concen: 1.163 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :
MSVOA_X
ClientSampled :

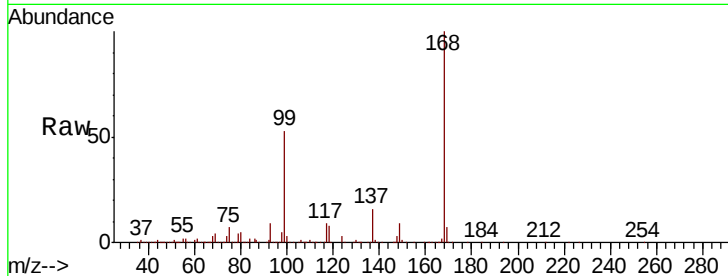
Tot Ion: 56 Resp: 11661

Ion Ratio Lower Upper

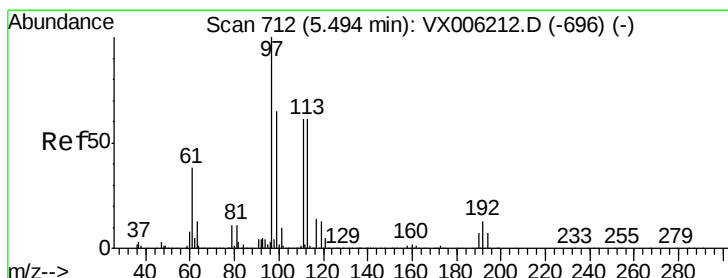
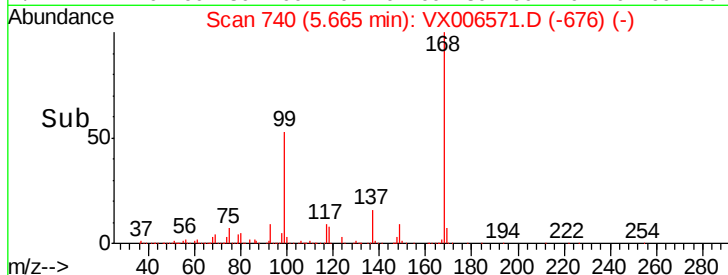
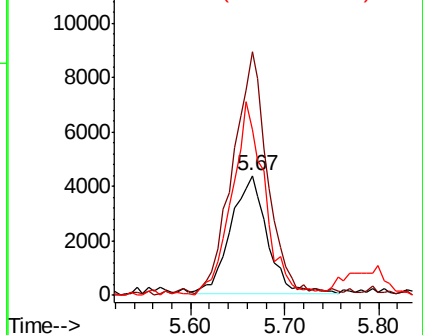
56 100

69 203.6 24.5 36.7#

84 138.6 71.8 107.6#



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



#32

1,1,1-Trichloroethane

Concen: 0.484 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

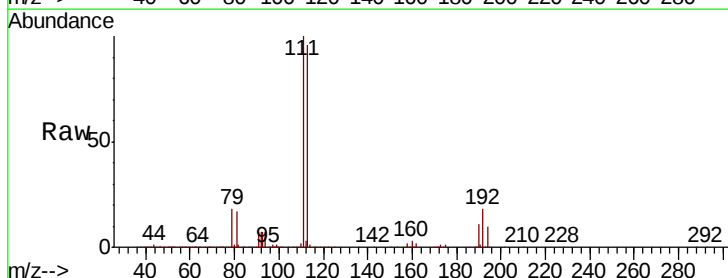
Tgt Ion: 97 Resp: 5246

Ion Ratio Lower Upper

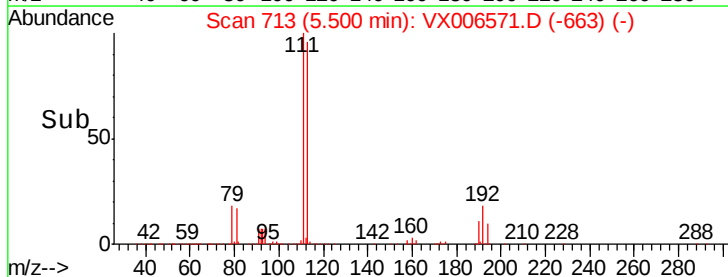
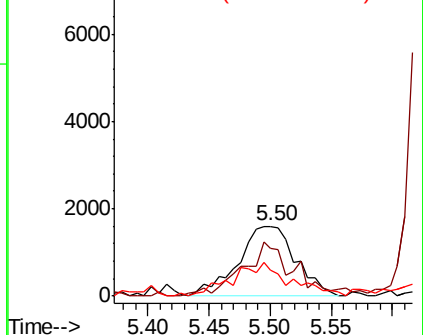
97 100

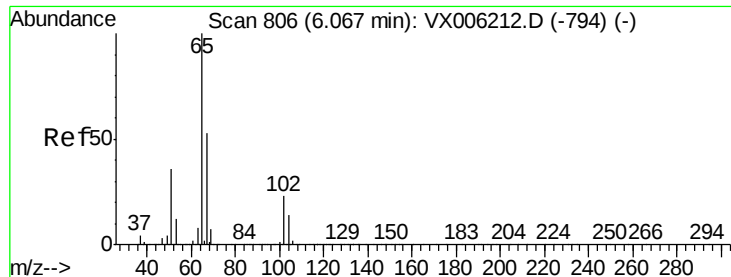
99 0.0 51.6 77.4#

61 0.0 30.6 46.0#



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 53.584 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

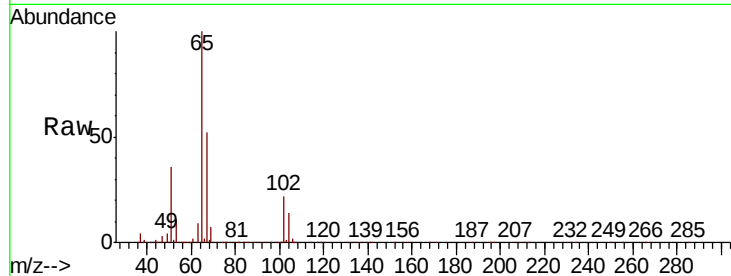
ClientSampleId :

Tot Ion: 65 Resp: 371902

Ion Ratio Lower Upper

65 100

67 51.7 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

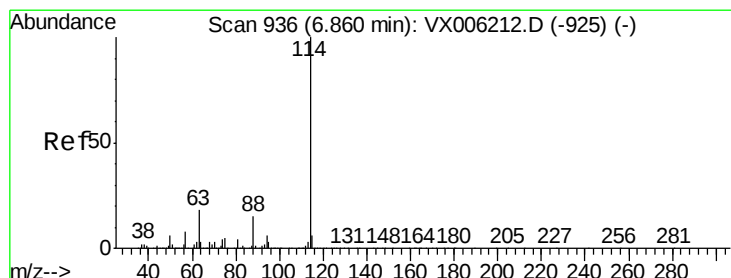
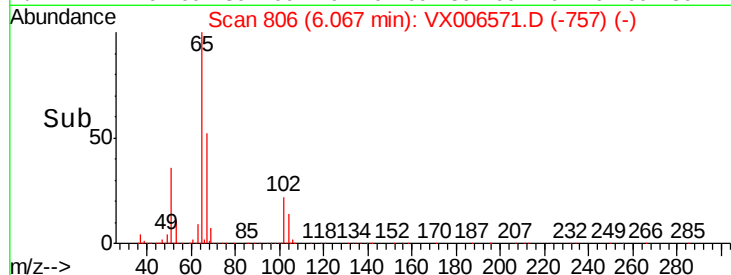
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

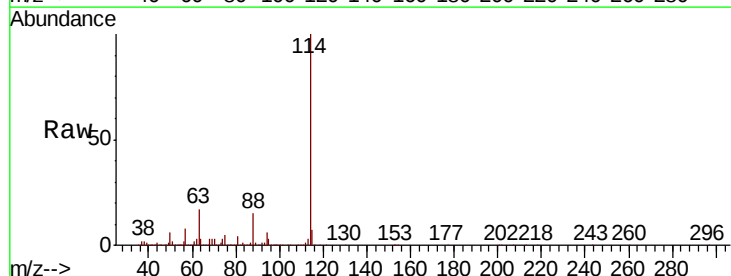
Tgt Ion: 114 Resp: 1068015

Ion Ratio Lower Upper

114 100

63 17.4 0.0 36.6

88 14.8 0.0 29.0



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

600000

500000

400000

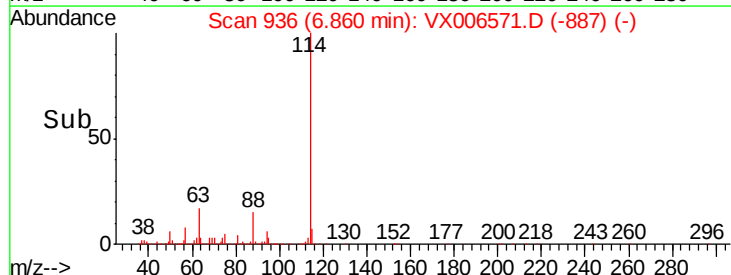
300000

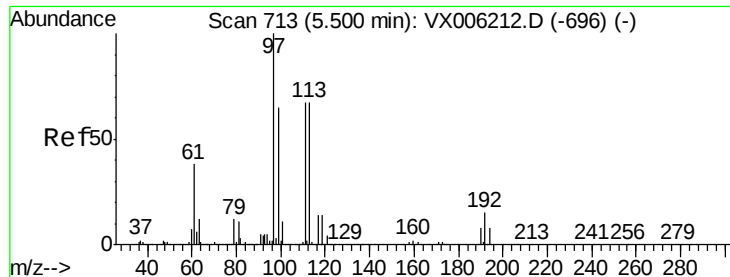
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 46.999 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :
MSVOA_X
ClientSampleId :

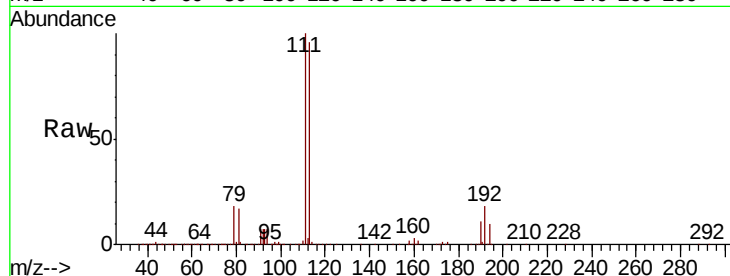
Tot Ion:113 Resp: 324995

Ion Ratio Lower Upper

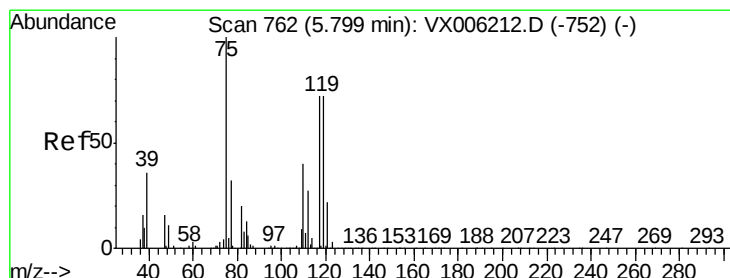
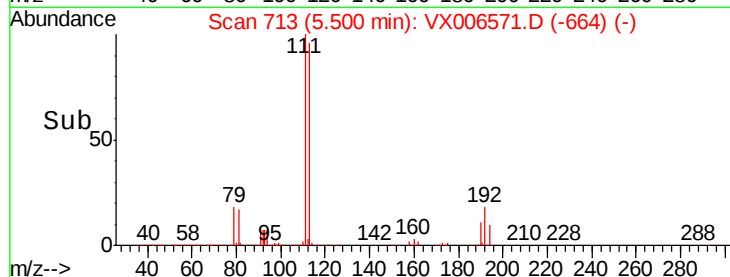
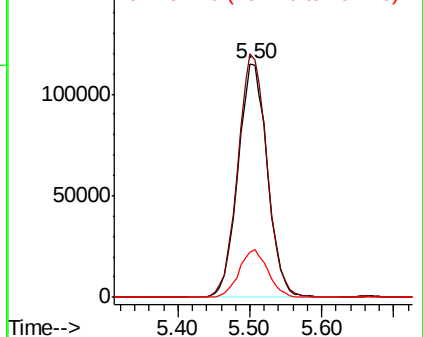
113 100

111 103.5 81.1 121.7

192 20.0 18.2 27.2



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: 5.106 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

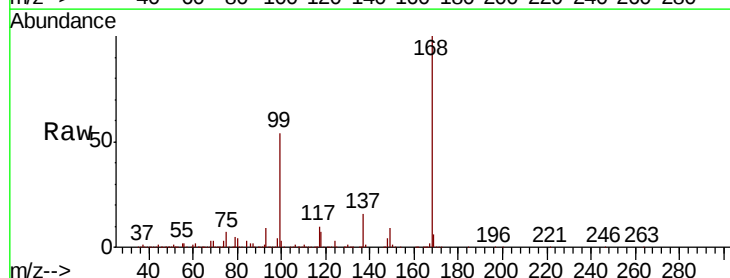
Tgt Ion: 75 Resp: 45922

Ion Ratio Lower Upper

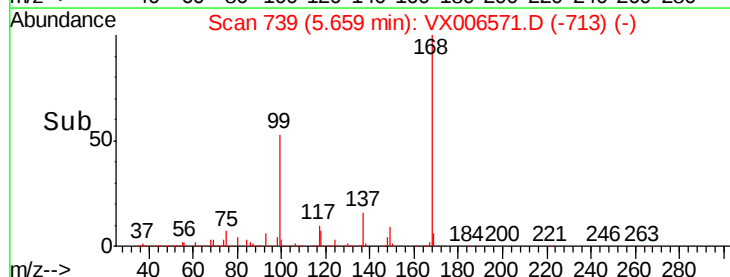
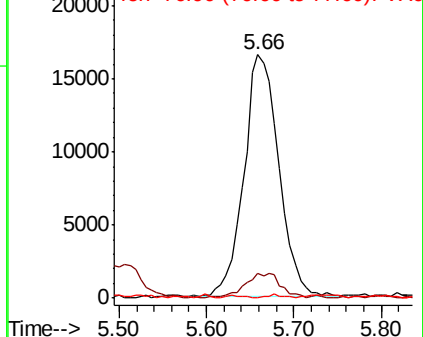
75 100

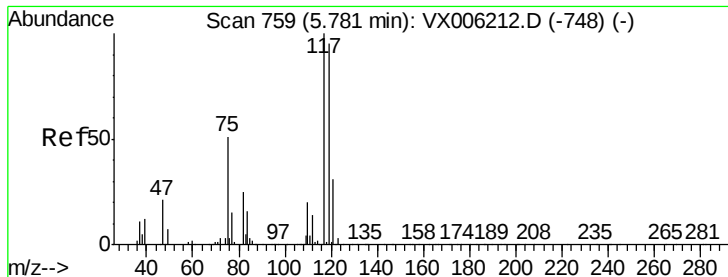
110 10.7 20.4 61.3#

77 0.6 24.9 37.3#



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: 1.593 ug/l

RT: 5.79 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

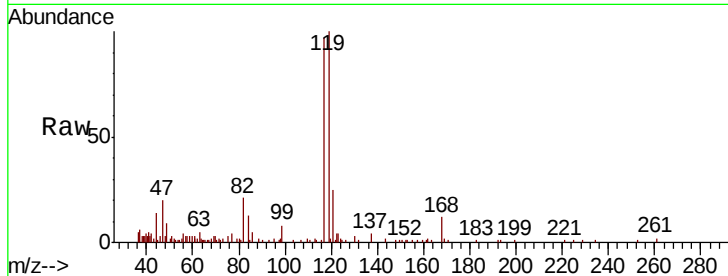
Tot Ion:117 Resp: 16850

Ion Ratio Lower Upper

117 100

119 101.8 75.8 113.8

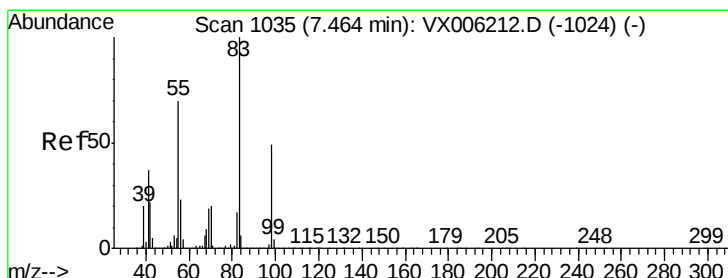
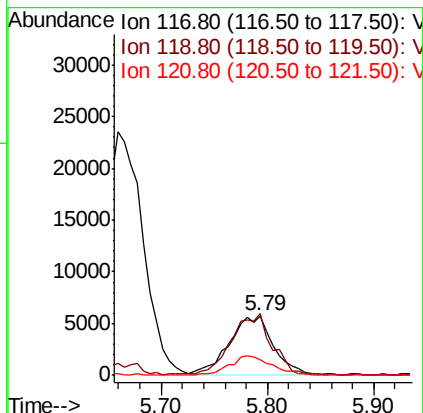
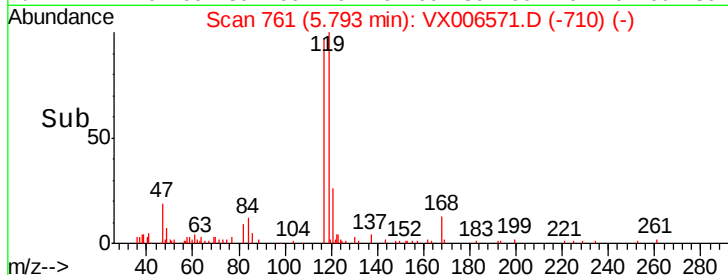
121 23.8 24.6 37.0#



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



#39

Methylcyclohexane

Concen: 14.652 ug/l

RT: 7.22 min Scan# 995

Delta R.T. -0.24 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

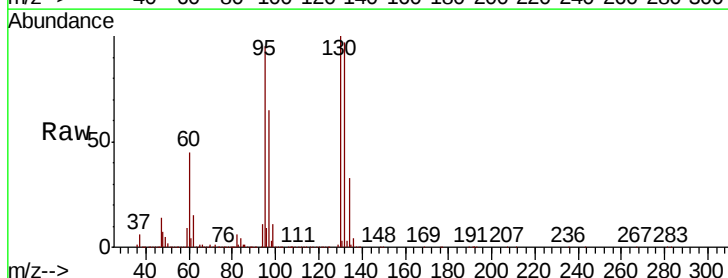
Tgt Ion: 83 Resp: 171055

Ion Ratio Lower Upper

83 100

55 0.0 56.4 84.6#

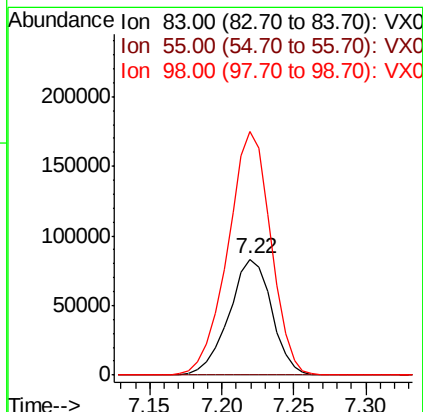
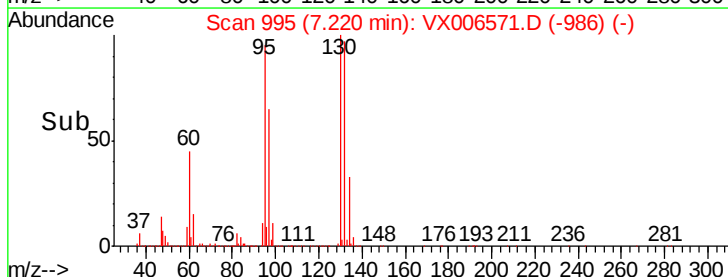
98 209.2 39.0 58.6#

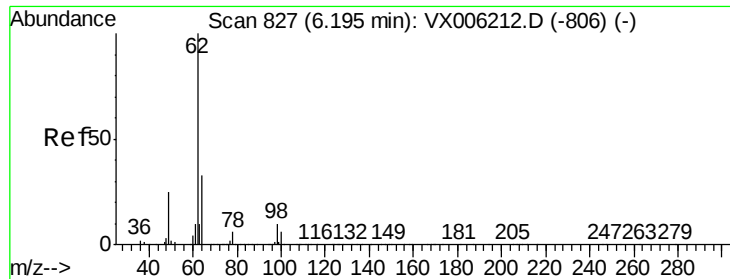


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#42

1,2-Dichloroethane

Concen: 0.352 ug/l

RT: 6.21 min Scan# 829

Delta R.T. 0.01 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

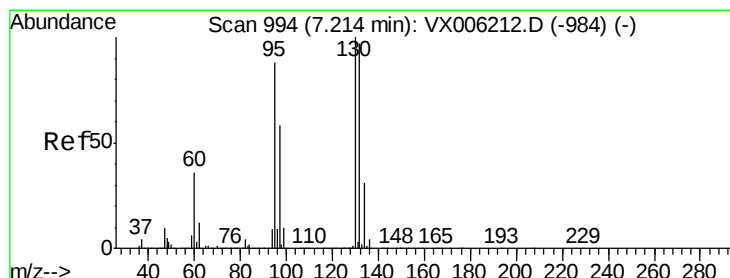
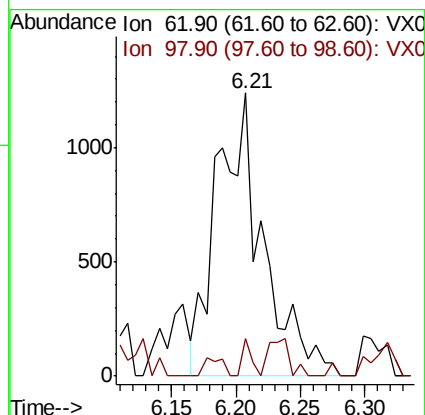
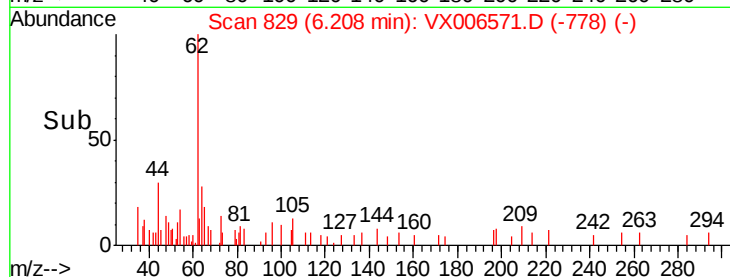
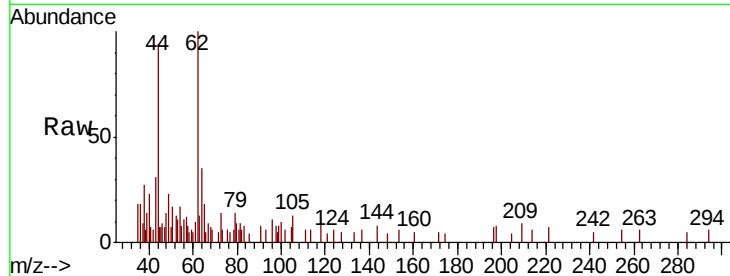
ClientSampleId :

Tot Ion: 62 Resp: 3107

Ion Ratio Lower Upper

62 100

98 2.7 0.0 20.2



#44

Trichloroethene

Concen: 1772.753 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006571.D

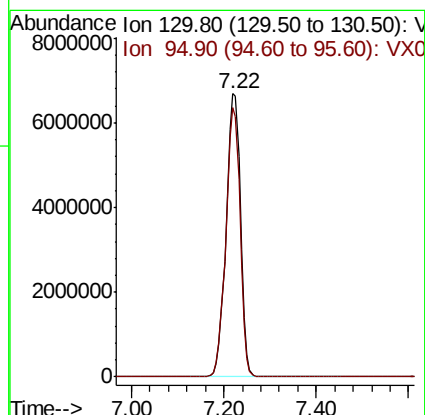
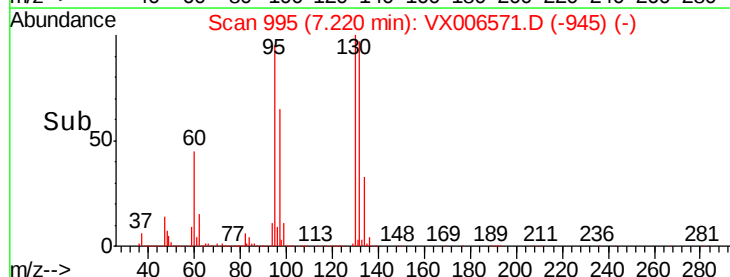
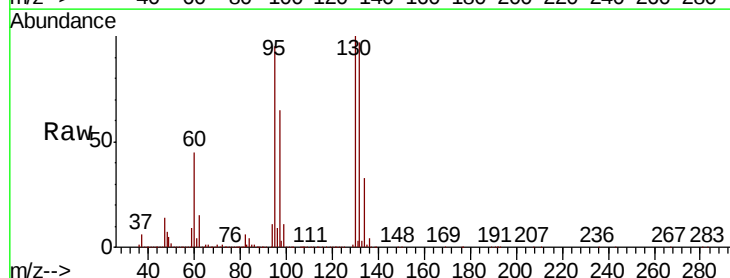
Acq: 17 Dec 2018 14:32

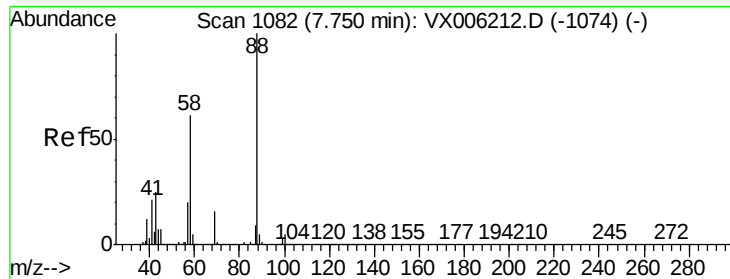
Tgt Ion:130 Resp:14466424

Ion Ratio Lower Upper

130 100

95 95.3 0.0 175.8

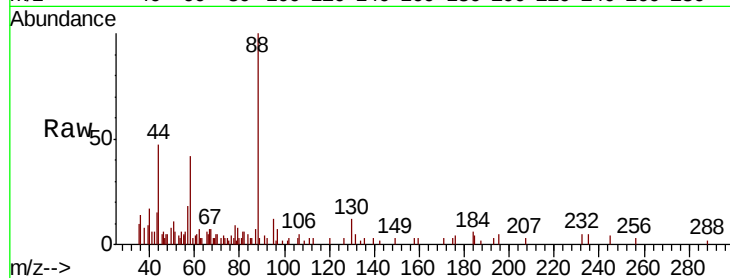




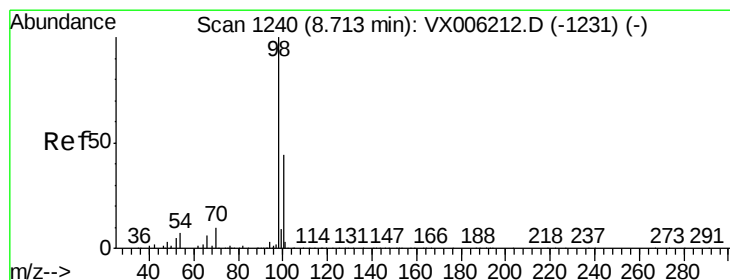
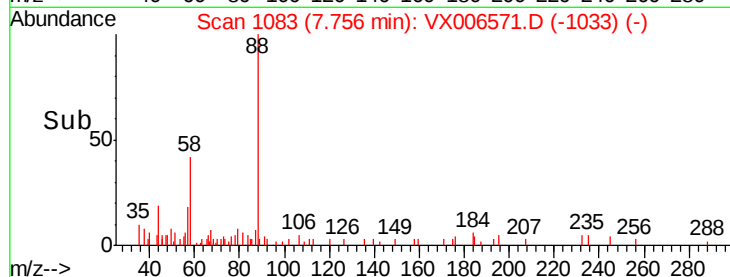
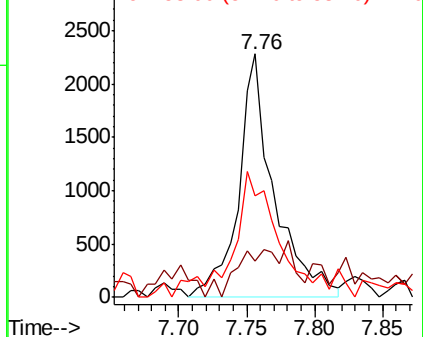
#49
1,4-Dioxane
Concen: 20.651 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.2	34.8#
58	63.9	51.4	77.0

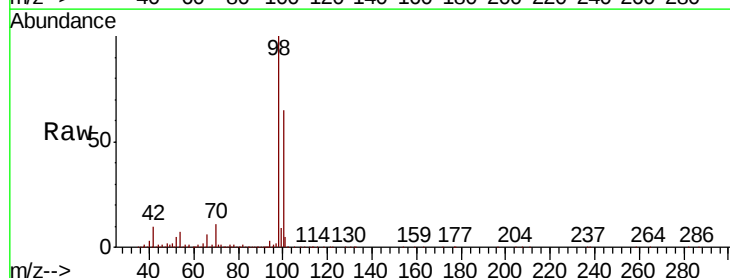


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

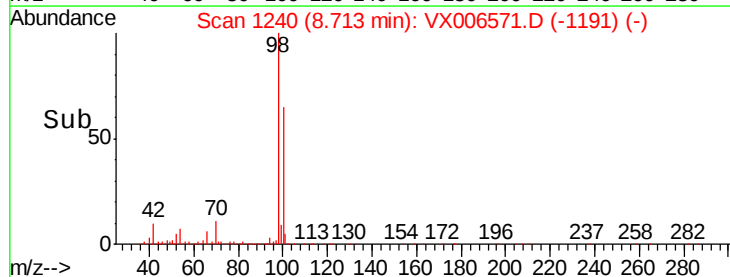
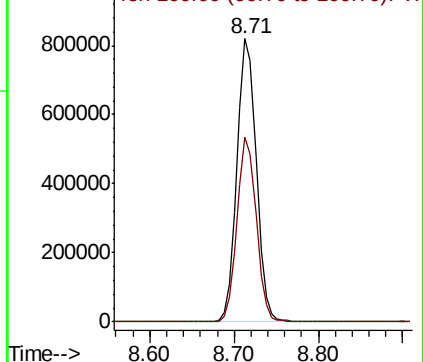


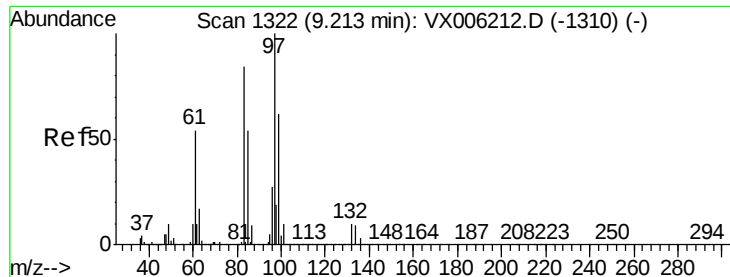
#50
Toluene-d8
Concen: 50.372 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2



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



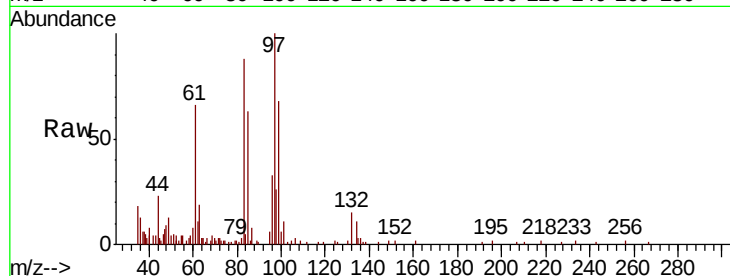


#55
 1,1,2-Trichloroethane
 Concen: 0.957 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

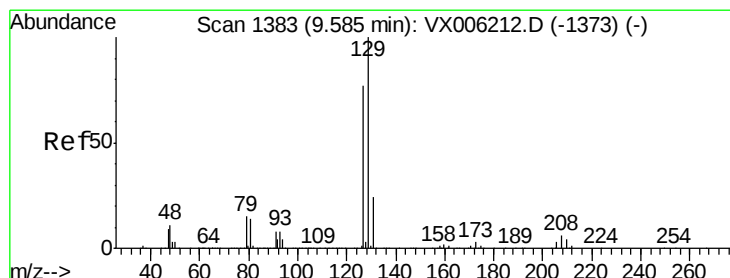
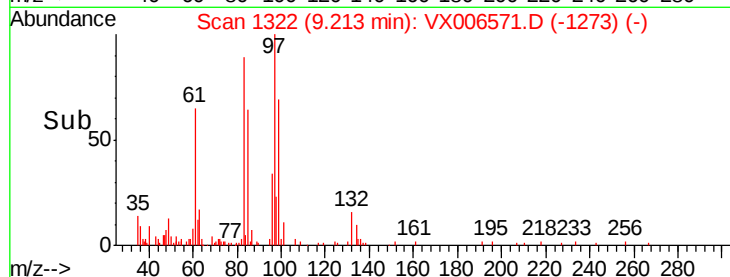
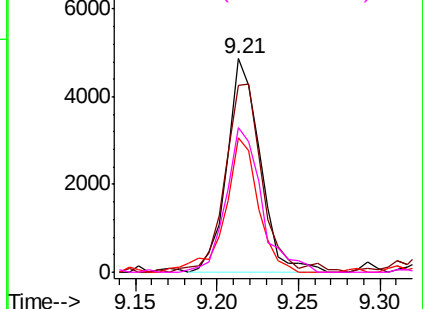
Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 97 Resp: 6888

Ion	Ratio	Lower	Upper
97	100		
83	86.5	67.1	100.7
85	63.0	43.2	64.8
99	68.0	49.8	74.6



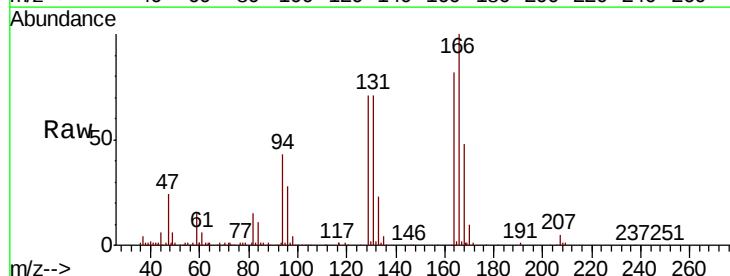
Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0



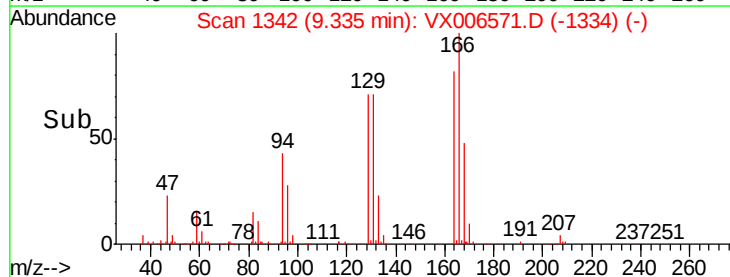
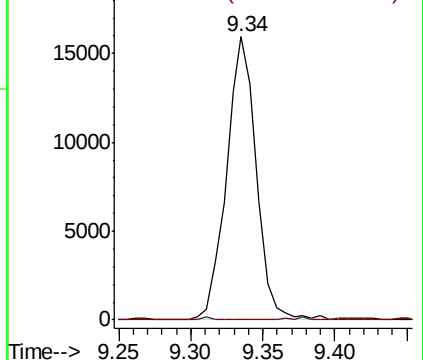
#60
 Dibromochloromethane
 Concen: 2.576 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.25 min
 Lab File: VX006571.D
 Acq: 17 Dec 2018 14:32

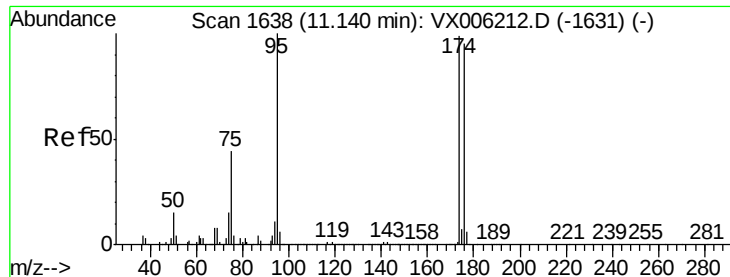
Tgt Ion: 129 Resp: 22870

Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.6	115.8#



Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 48.944 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

ClientSampleId :

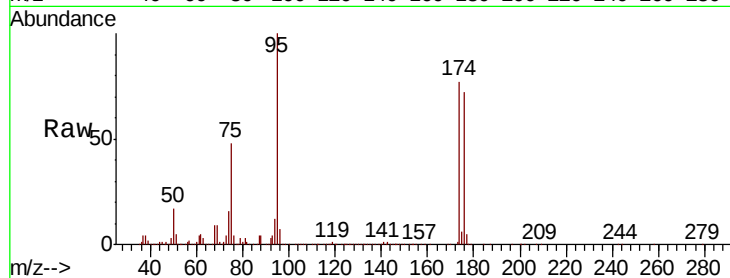
Tot Ion: 95 Resp: 463900

Ion Ratio Lower Upper

95 100

174 85.2 0.0 187.0

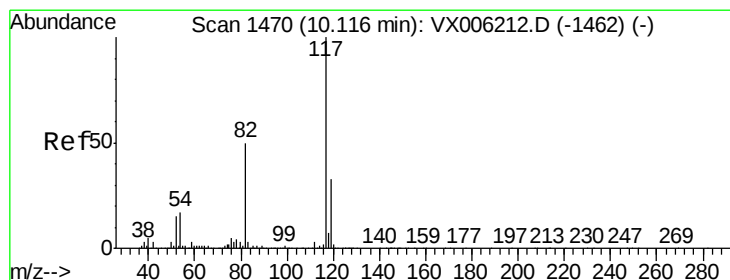
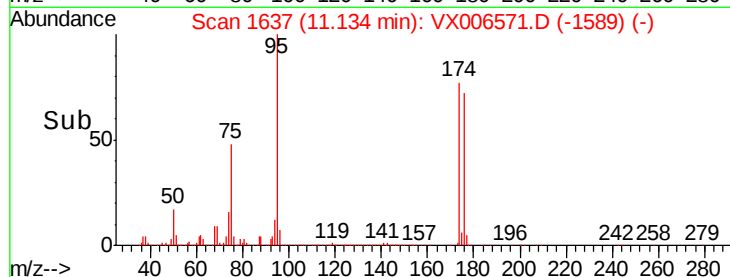
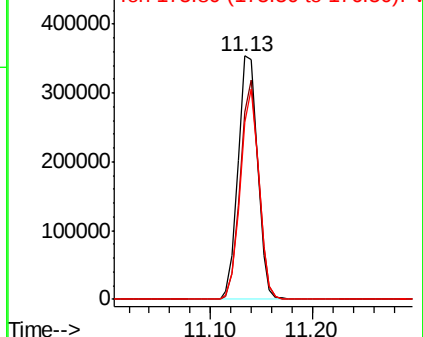
176 82.3 0.0 181.8



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: VX006571.D

Acq: 17 Dec 2018 14:32

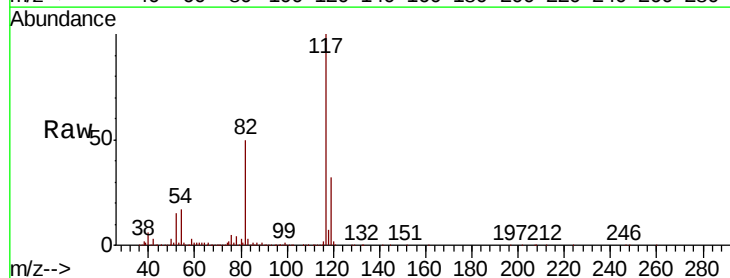
Tgt Ion: 117 Resp: 975496

Ion Ratio Lower Upper

117 100

82 50.0 39.6 59.4

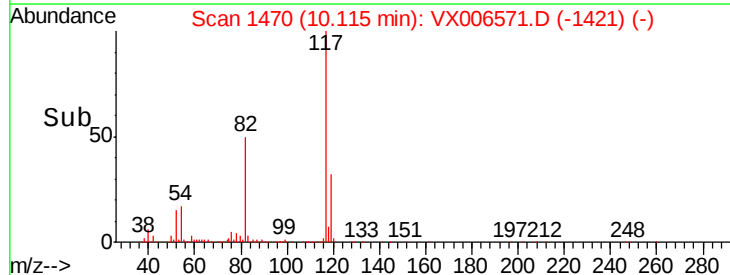
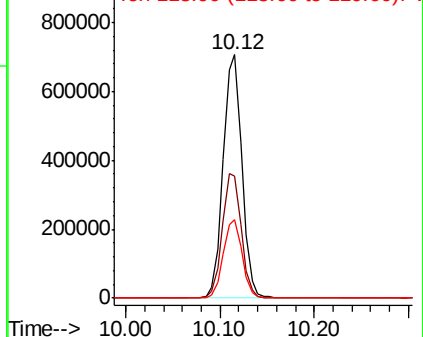
119 32.5 26.3 39.5

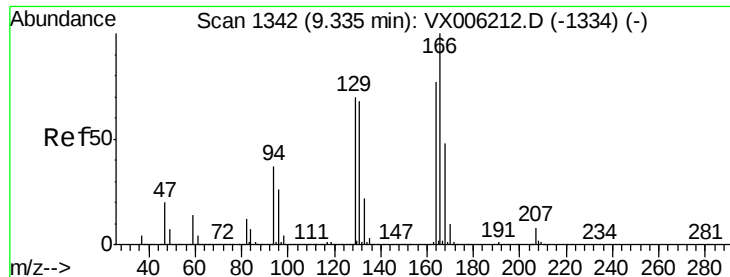


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

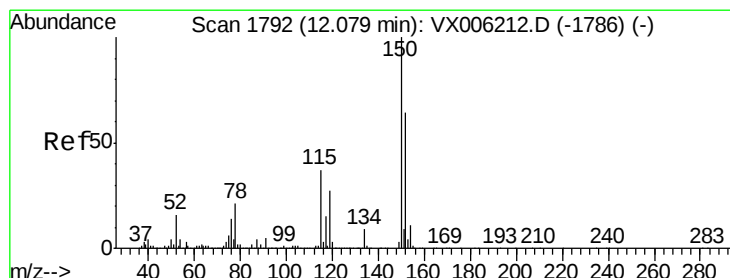
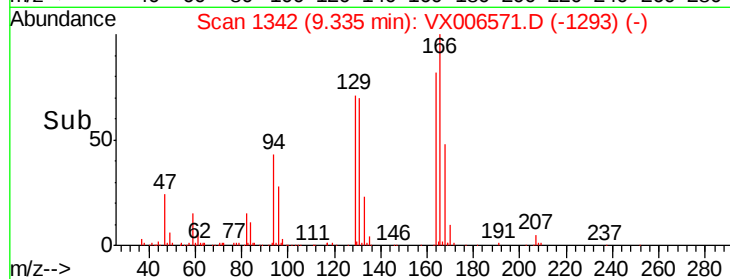
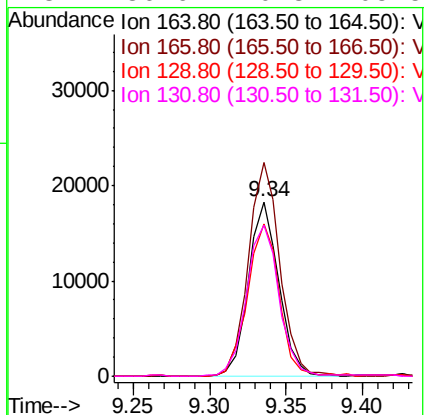
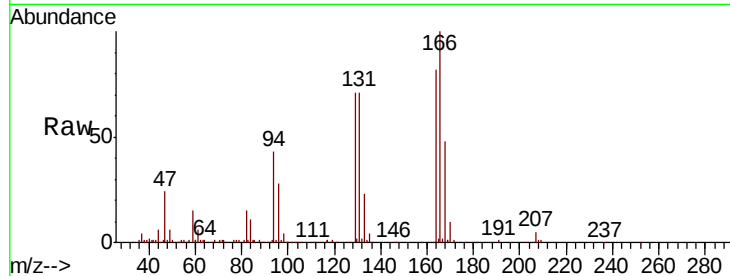




#64
Tetrachloroethene
Concen: 3.445 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

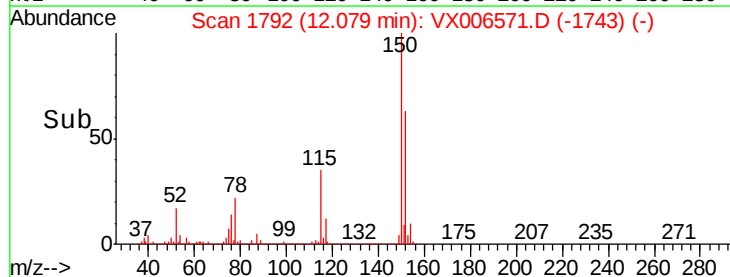
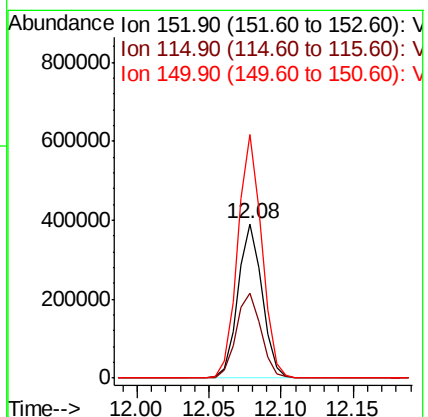
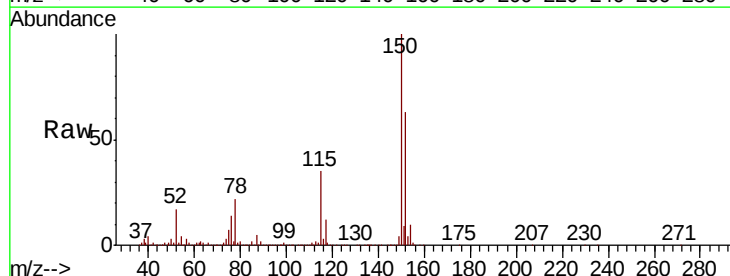
Instrument :
MSVOA_X
ClientSampleId :

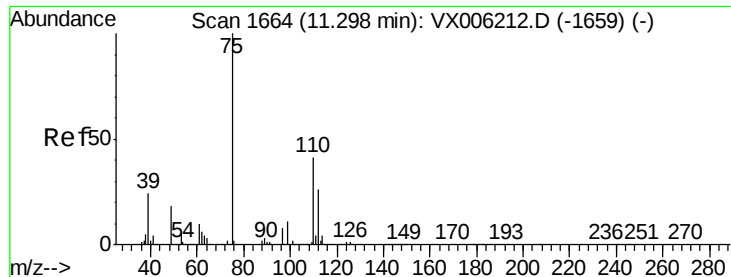
Tot Ion	Ratio	Lower	Upper
164	100		
166	122.6	104.2	156.2
129	86.8	72.6	108.8
131	86.6	70.3	105.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006571.D
Acq: 17 Dec 2018 14:32

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	39.0	116.9
150	157.5	0.0	345.8





#76

1,2,3-Trichloropropane

Concen: 24.531 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Instrument :

MSVOA_X

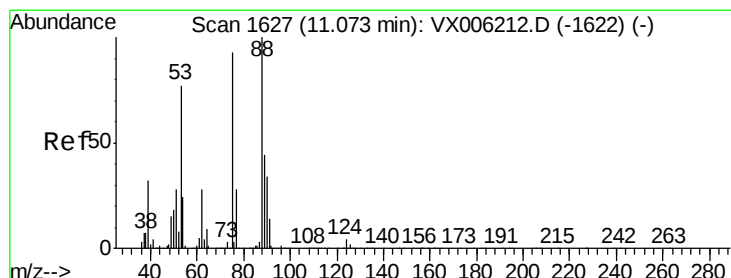
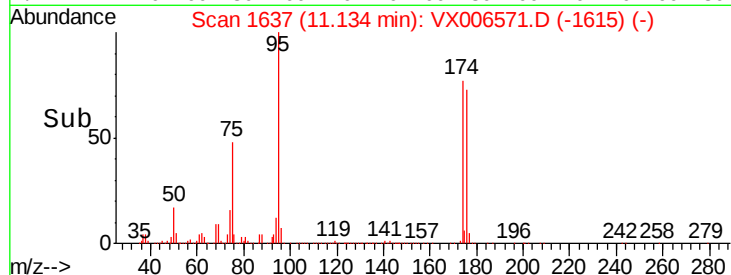
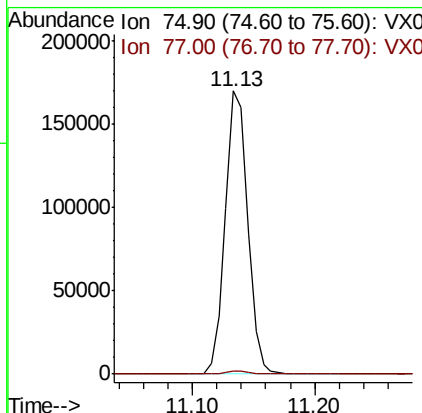
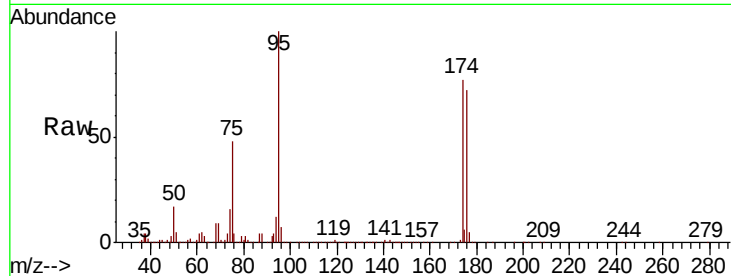
ClientSampleId :

Tot Ion: 75 Resp: 216532

Ion Ratio Lower Upper

75 100

77 1.1 19.9 59.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.568 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006571.D

Acq: 17 Dec 2018 14:32

Tgt Ion: 75 Resp: 216532

Ion Ratio Lower Upper

75 100

53 0.3 64.4 96.6#

89 0.0 44.2 66.4#

