

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121718\
 Data File : VX006568.D
 Acq On : 17 Dec 2018 13:12
 Operator : JC/MD
 Sample : J6405-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 18 00:38:41 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	5.66	168	709821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1110394	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	1008156	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	485575	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	380526	52.51	ug/l	0.00
Spiked Amount			Recovery	=	105.02%	
35) Dibromofluoromethane	5.50	113	341595	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
50) Toluene-d8	8.71	98	1309443	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
62) 4-Bromofluorobenzene	11.13	95	479959	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	

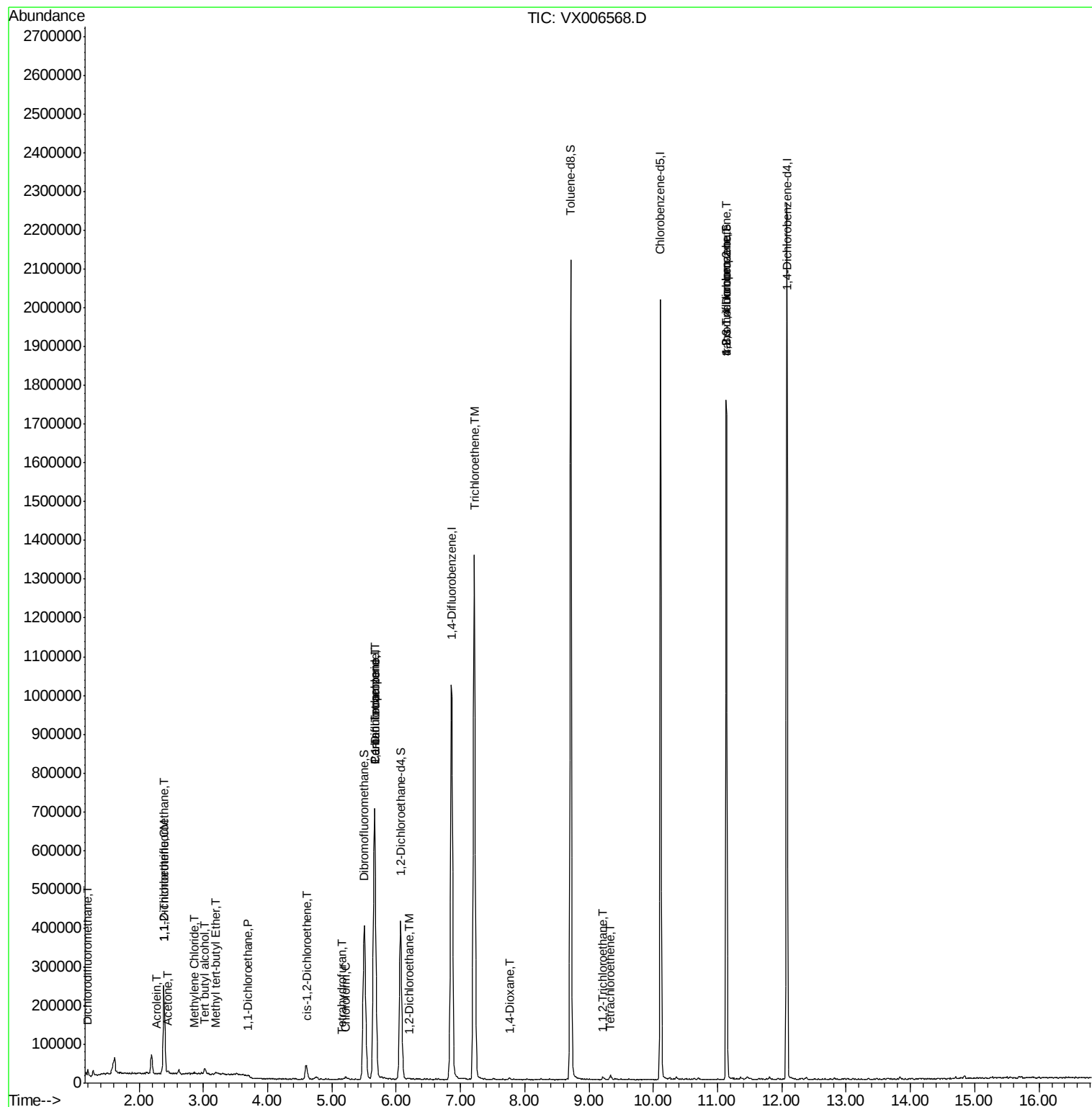
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	8082	1.163	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	78238	11.661	ug/l	99
11) Tert butyl alcohol	3.02	59	8661	4.371	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	15897	2.475	ug/l	90
13) Acrolein	2.28	56	575	0.531	ug/l #	38
16) Acetone	2.45	43	5433	1.598	ug/l #	87
19) Methyl tert-butyl Ether	3.20	73	4867	0.212	ug/l #	84
20) Methylene Chloride	2.86	84	1691	0.234	ug/l #	75
24) 1,1-Dichloroethane	3.70	63	8378	0.740	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	23888	3.129	ug/l	89
29) Tetrahydrofuran	5.15	42	723	0.214	ug/l #	42
30) Chloroform	5.21	83	6006	0.505	ug/l	90
36) 1,1-Dichloropropene	5.66	75	47194	5.047	ug/l #	48
38) Carbon Tetrachloride	5.66	117	67114	6.101	ug/l #	16
42) 1,2-Dichloroethane	6.21	62	2594	0.283	ug/l	97
44) Trichloroethene	7.21	130	548632	64.665	ug/l	96
49) 1,4-Dioxane	7.76	88	3237	15.463	ug/l #	79
55) 1,1,2-Trichloroethane	9.22	97	1544	0.206	ug/l #	78
64) Tetrachloroethene	9.34	164	1791	0.236	ug/l #	77
76) 1,2,3-Trichloropropane	11.13	75	221687	23.653	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.13	75	221687	55.508	ug/l #	15

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

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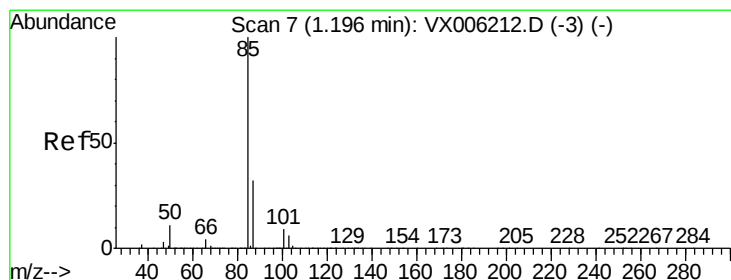
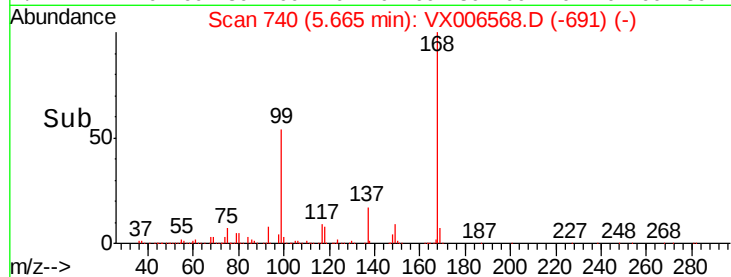
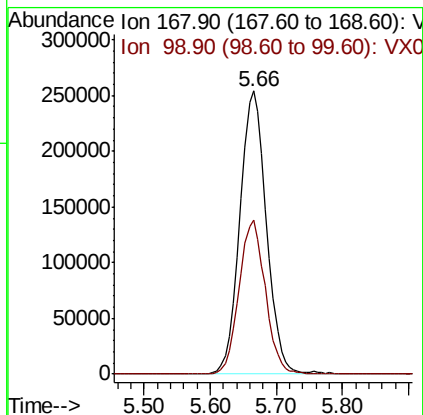
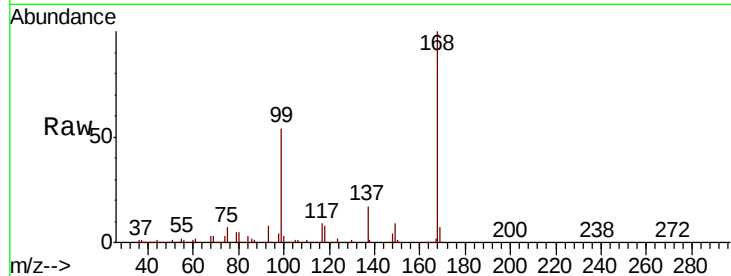


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.66 min Scan# 740
 Delta R.T. -0.00 min
 Lab File: VX006568.D
 Acq: 17 Dec 2018 13:12

Instrument :
 MSVOA_X
 ClientSampleId :

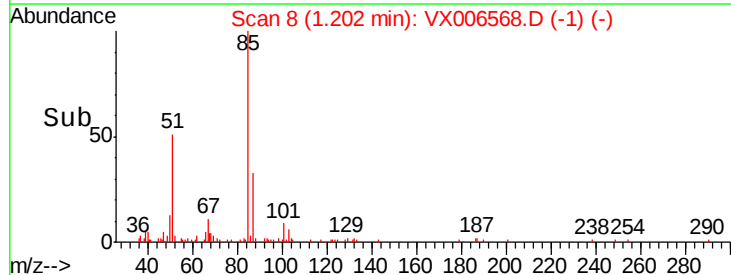
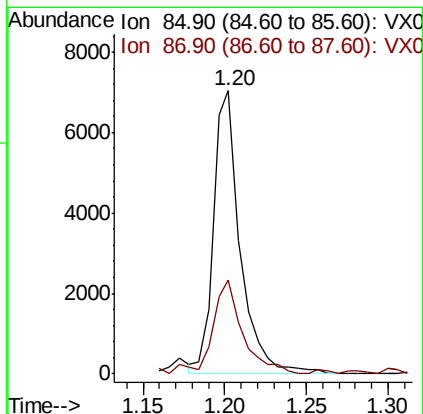
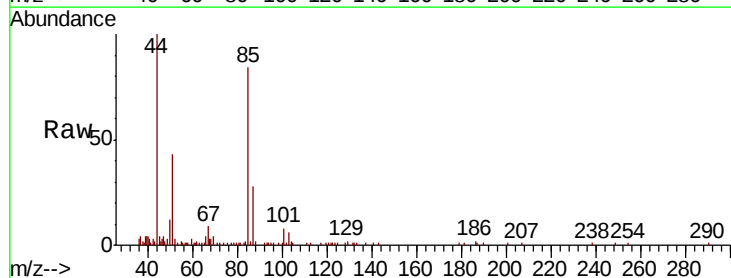
Tot Ion:168 Resp: 709821
 Ion Ratio Lower Upper
 168 100
 99 54.4 37.8 56.8

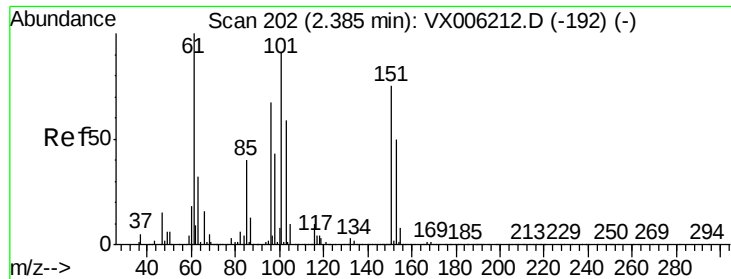


#2

Dichlorodifluoromethane
 Concen: 1.163 ug/l
 RT: 1.20 min Scan# 8
 Delta R.T. 0.01 min
 Lab File: VX006568.D
 Acq: 17 Dec 2018 13:12

Tgt Ion: 85 Resp: 8082
 Ion Ratio Lower Upper
 85 100
 87 33.2 16.1 48.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.661 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

Instrument :

MSVOA_X

ClientSampled :

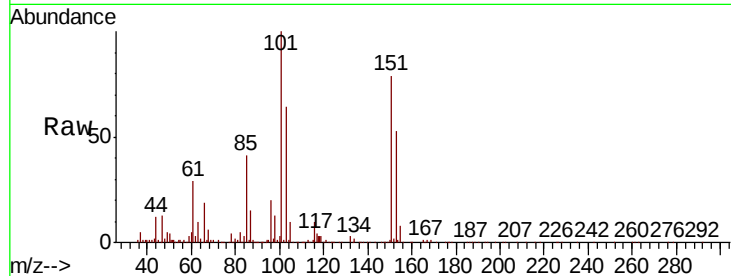
Tot Ion:101 Resp: 78238

Ion Ratio Lower Upper

101 100

85 42.7 35.5 53.3

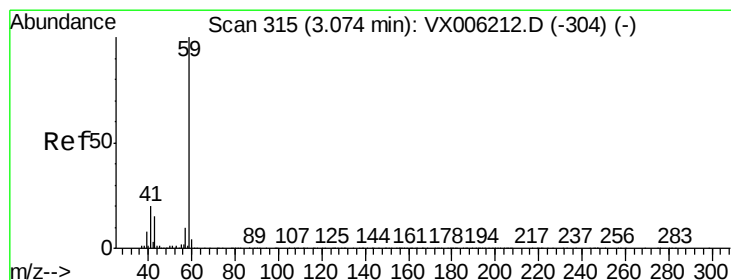
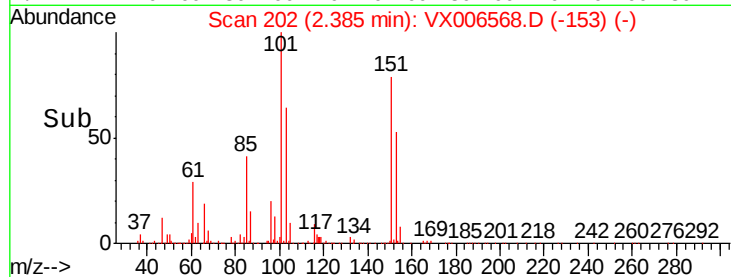
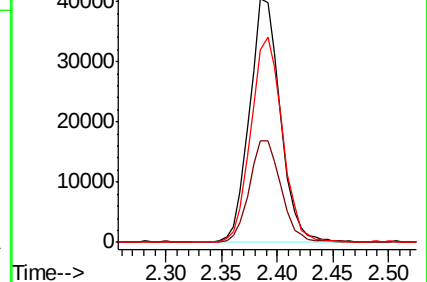
151 86.3 68.6 103.0



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: 4.371 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX006568.D

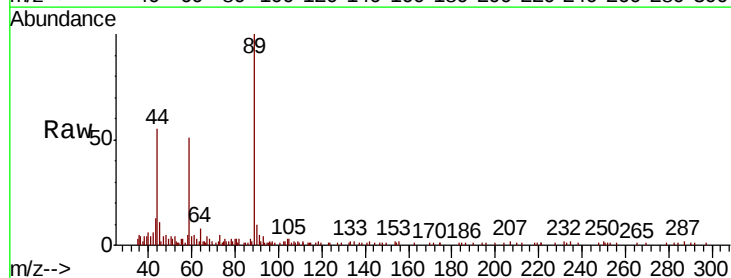
Acq: 17 Dec 2018 13:12

Tgt Ion: 59 Resp: 8661

Ion Ratio Lower Upper

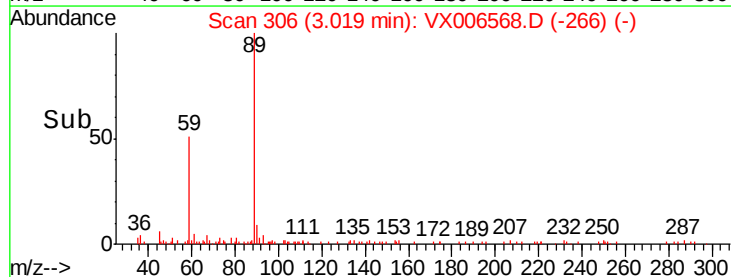
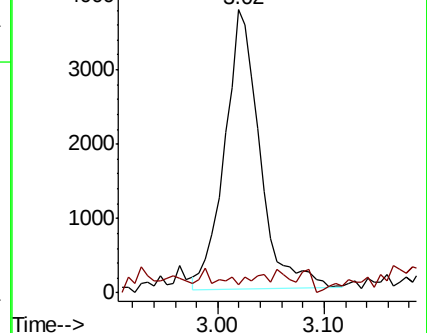
59 100

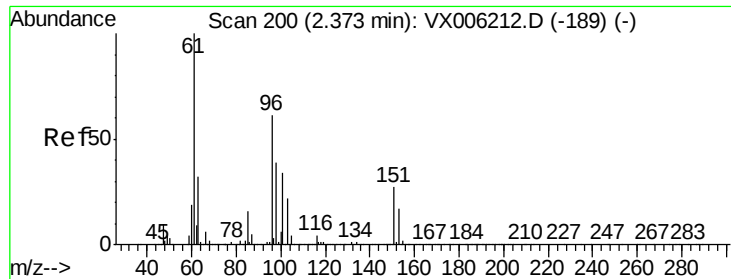
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 2.475 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

Instrument :
MSVOA_X
ClientSampleId :

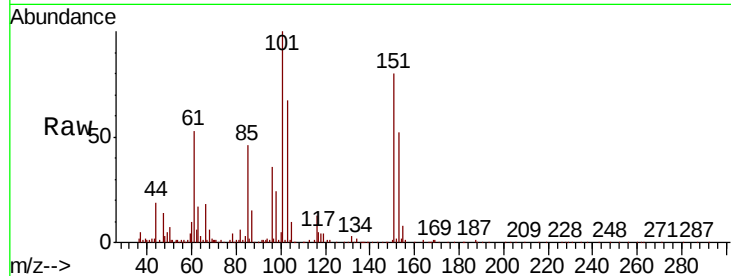
Tot Ion: 96 Resp: 15897

Ion Ratio Lower Upper

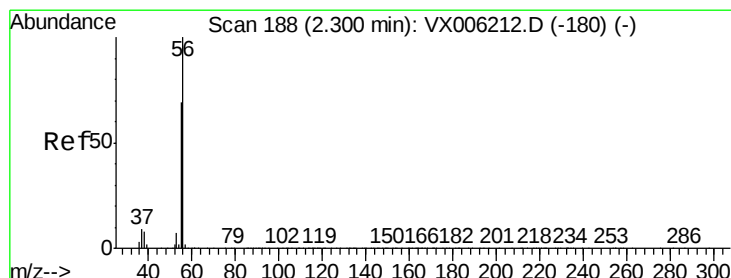
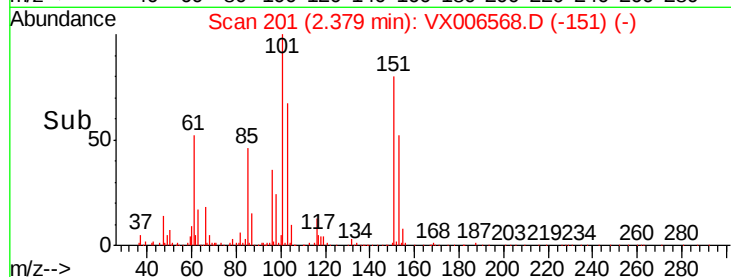
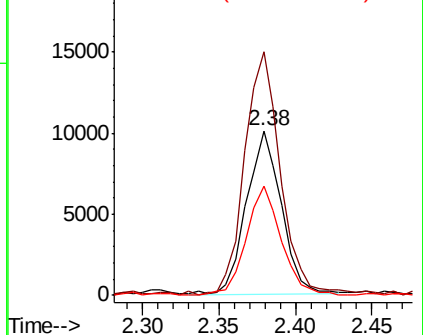
96 100

61 147.0 131.7 197.5

98 66.8 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: 0.531 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX006568.D

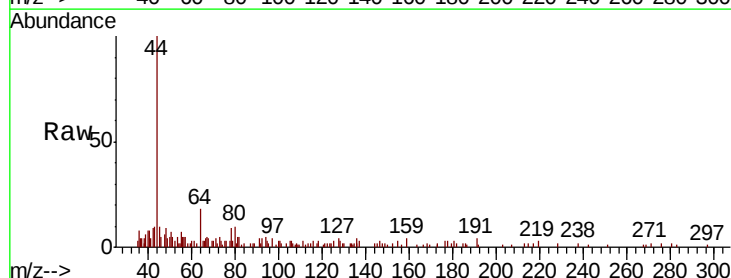
Acq: 17 Dec 2018 13:12

Tgt Ion: 56 Resp: 575

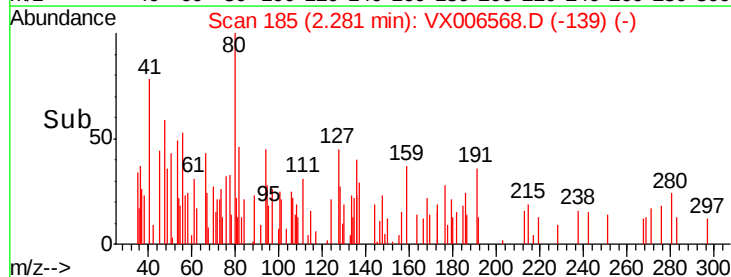
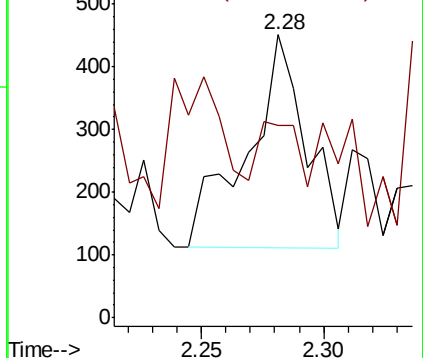
Ion Ratio Lower Upper

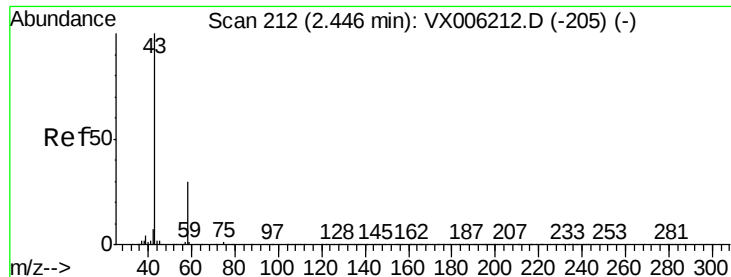
56 100

55 20.2 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0

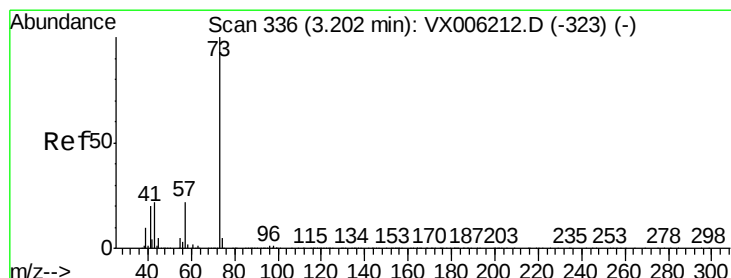
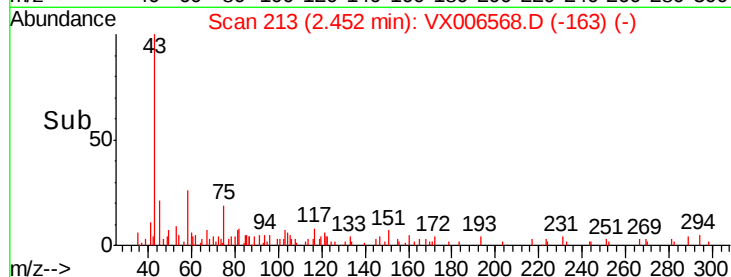
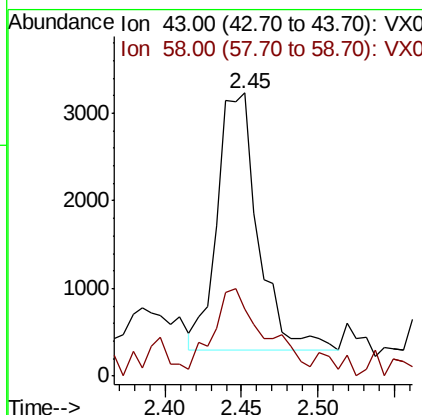
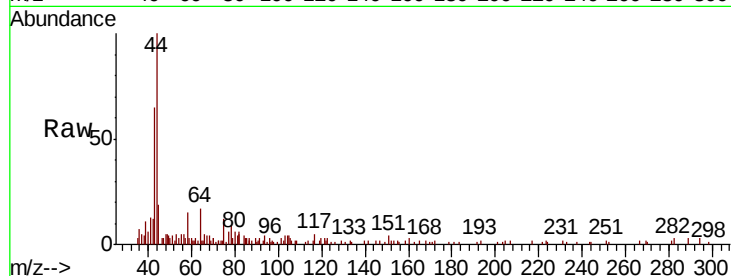




#16
Acetone
Concen: 1.598 ug/l
RT: 2.45 min Scan# 213
Delta R.T. 0.01 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

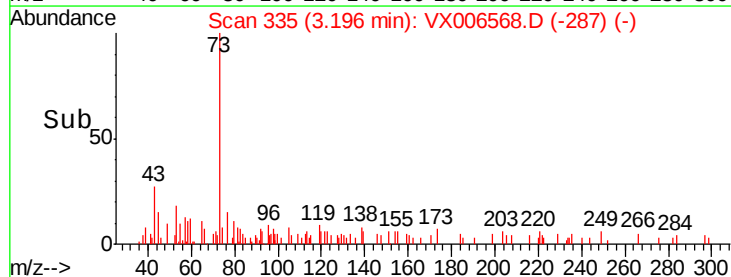
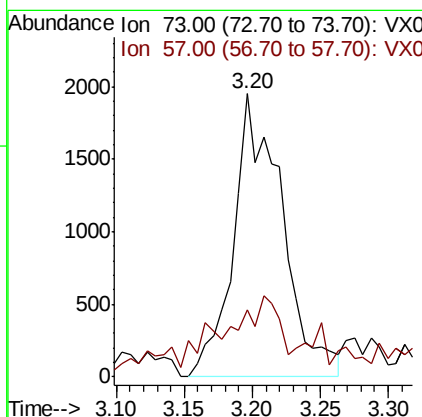
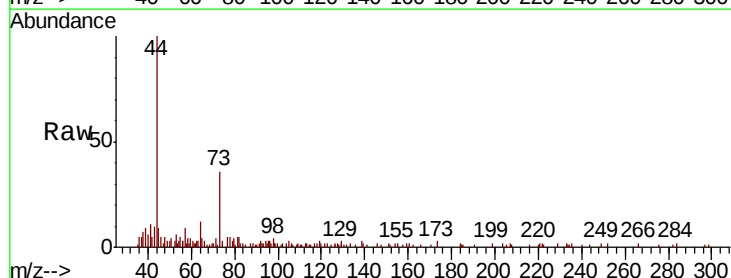
Instrument :
MSVOA_X
ClientSampleId :

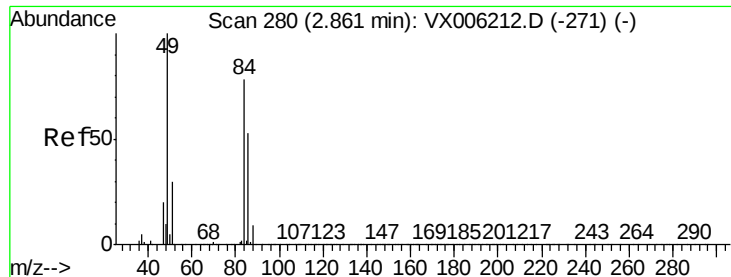
Tot Ion: 43 Resp: 5433
Ion Ratio Lower Upper
43 100
58 23.0 24.0 36.0#



#19
Methyl tert-butyl Ether
Concen: 0.212 ug/l
RT: 3.20 min Scan# 335
Delta R.T. -0.01 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

Tgt Ion: 73 Resp: 4867
Ion Ratio Lower Upper
73 100
57 14.3 17.5 26.3#

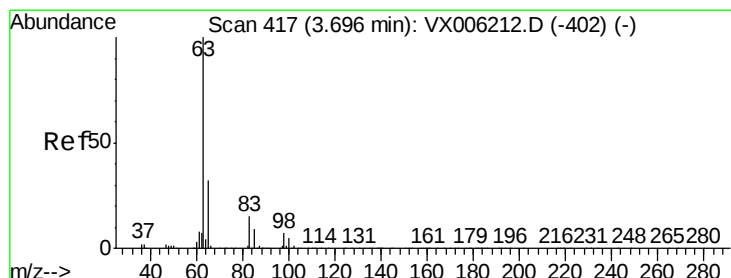
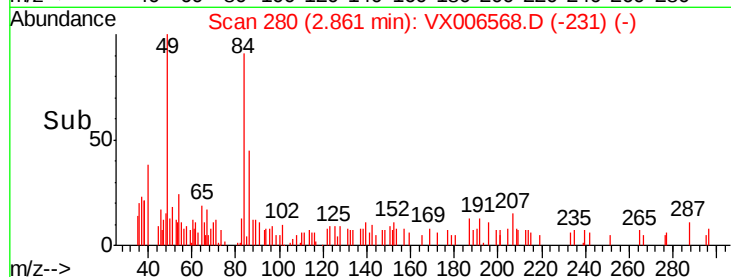
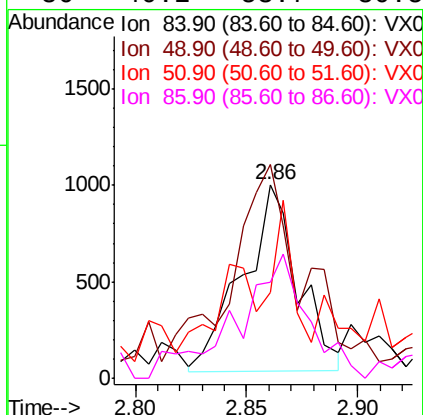
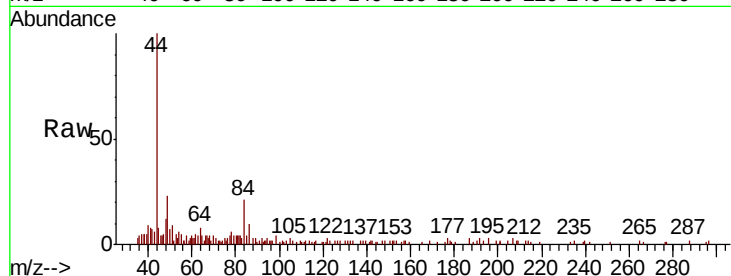




#20
Methvlene Chloride
Concen: 0.234 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

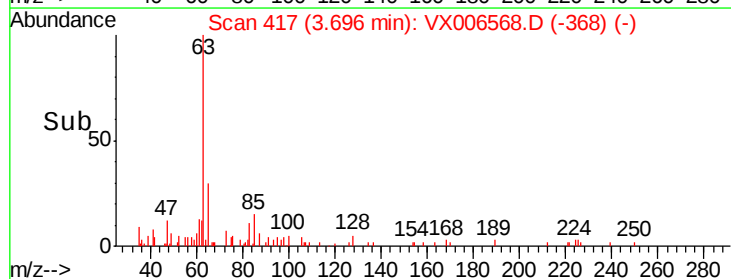
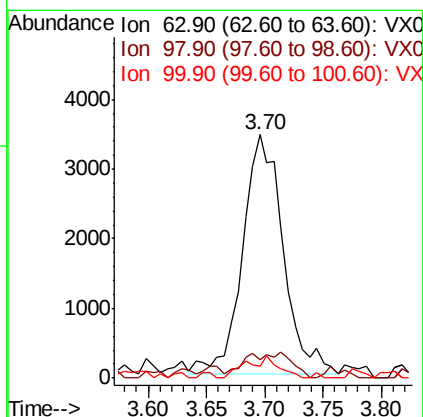
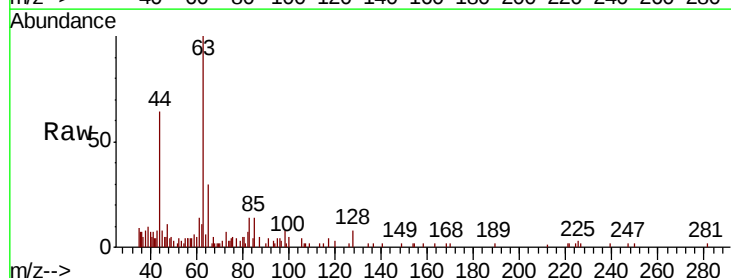
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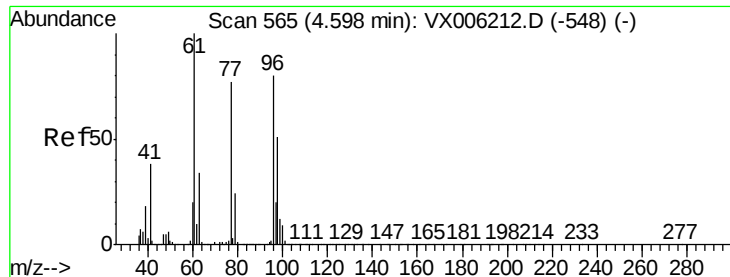
Tot Ion: 84 Resp: 1691
Ion Ratio Lower Upper
84 100
49 104.2 102.2 153.4
51 22.8 31.1 46.7#
86 40.2 53.7 80.5#



#24
1,1-Dichloroethane
Concen: 0.740 ug/l
RT: 3.70 min Scan# 417
Delta R.T. -0.00 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

Tgt Ion: 63 Resp: 8378
Ion Ratio Lower Upper
63 100
98 6.0 3.8 11.4
100 4.8 2.5 7.4



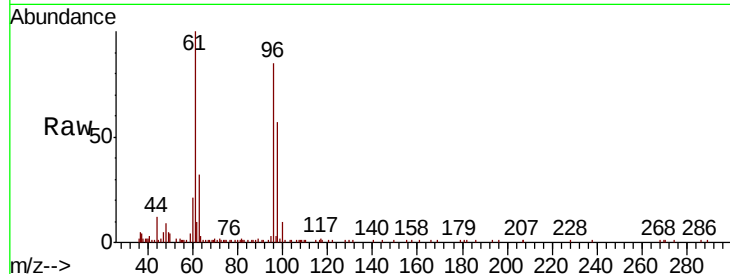


#27

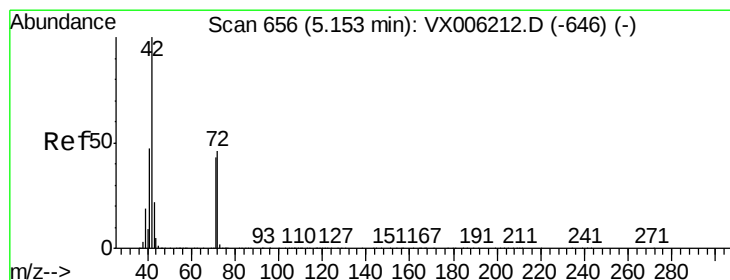
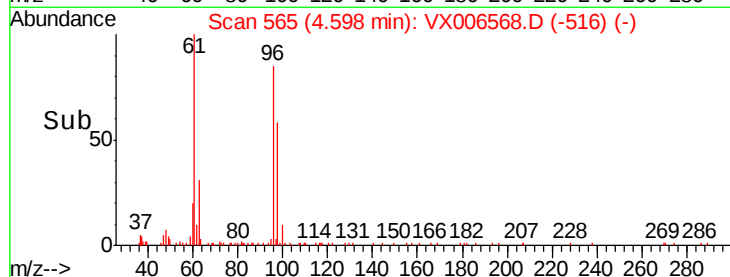
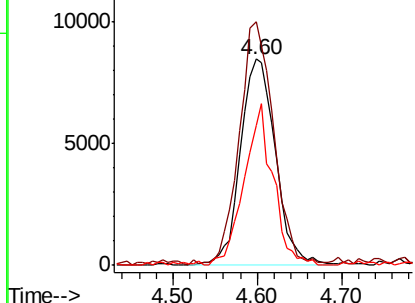
cis-1,2-Dichloroethene
 Concen: 3.129 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX006568.D
 Acq: 17 Dec 2018 13:12

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	112.8	0.0	265.0
98	64.5	0.0	130.2



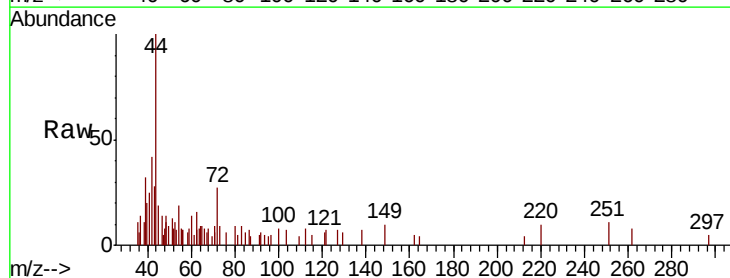
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



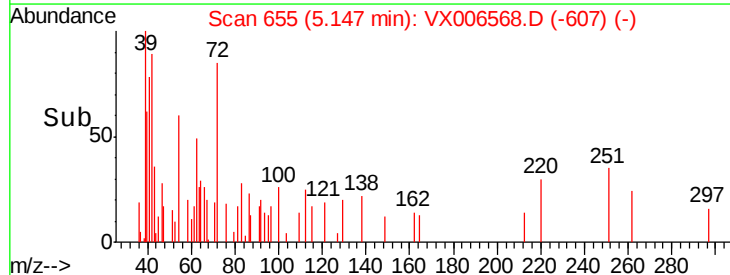
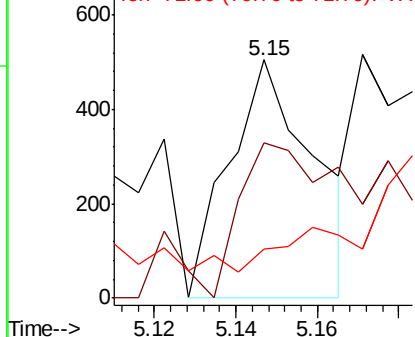
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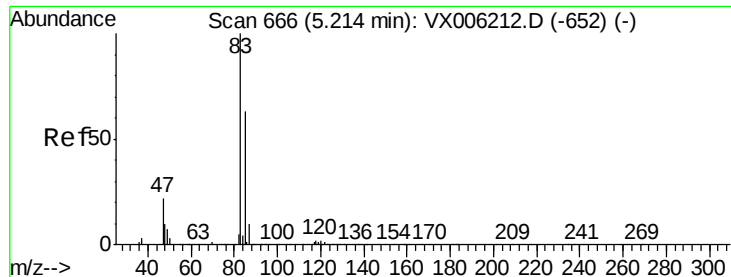
Tetrahydrofuran
 Concen: 0.214 ug/l
 RT: 5.15 min Scan# 655
 Delta R.T. -0.01 min
 Lab File: VX006568.D
 Acq: 17 Dec 2018 13:12

Tgt Ion	Ratio	Lower	Upper
42	100		
72	79.4	37.8	56.8#
71	0.0	35.2	52.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0

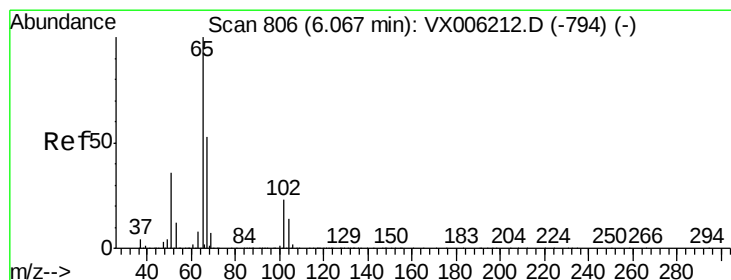
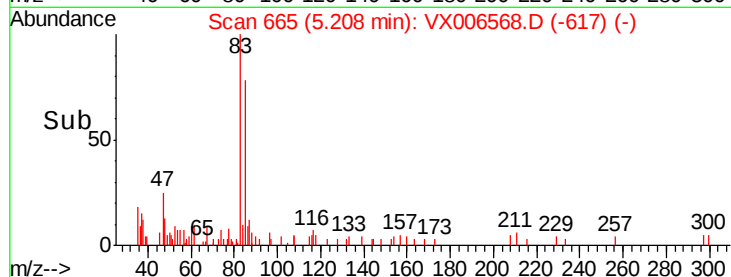
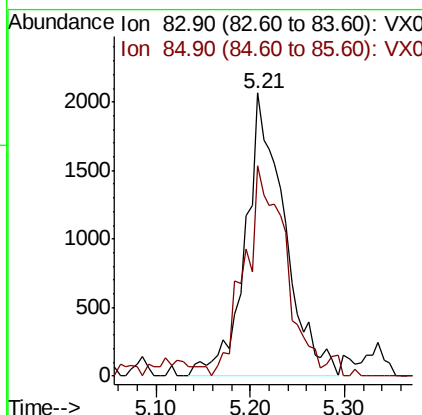
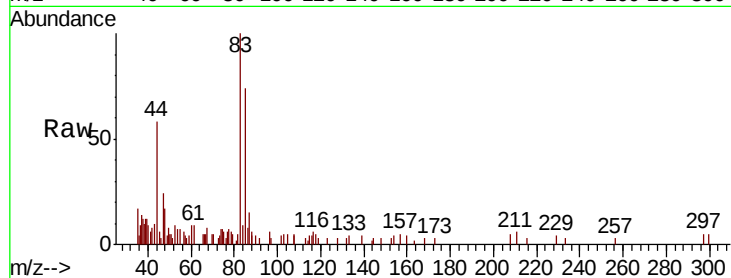




#30
Chloroform
Concen: 0.505 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

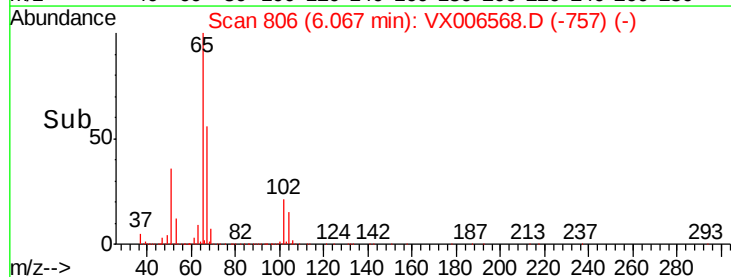
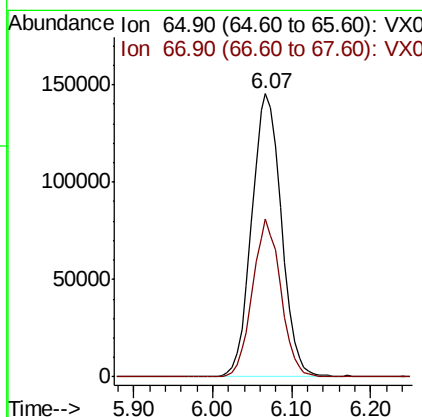
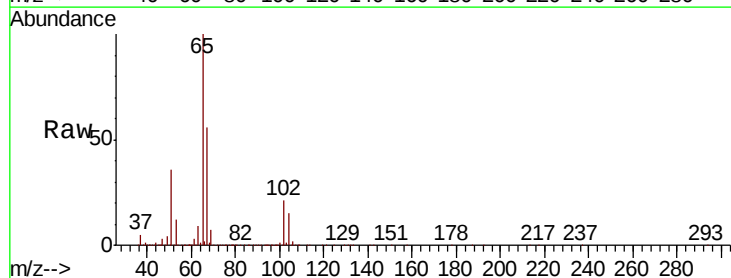
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ClientSampleId :

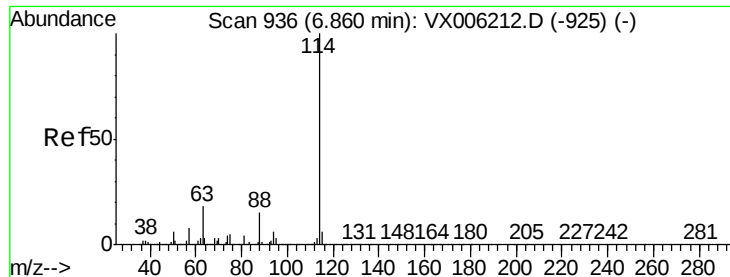
Tot Ion: 83 Resp: 6006
Ion Ratio Lower Upper
83 100
85 70.9 50.3 75.5



#33
1,2-Dichloroethane-d4
Concen: 52.514 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

Tgt Ion: 65 Resp: 380526
Ion Ratio Lower Upper
65 100
67 53.5 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

Instrument :

MSVOA_X

ClientSampleId :

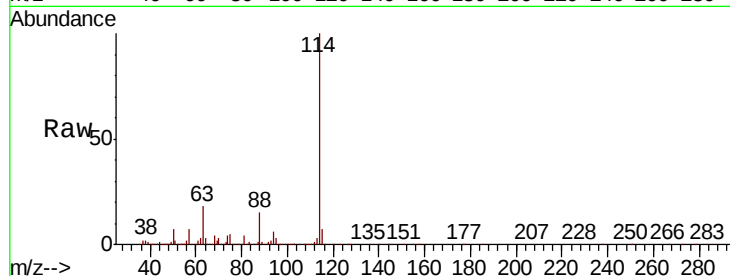
Tot Ion:114 Resp: 1110394

Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.6

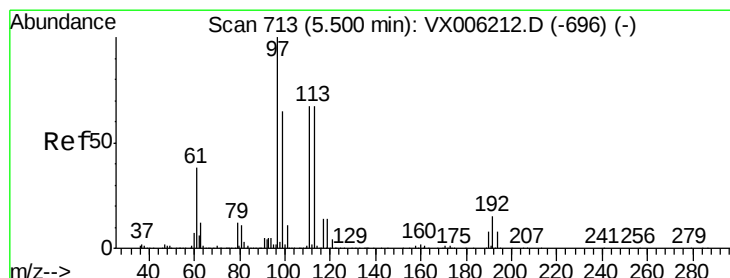
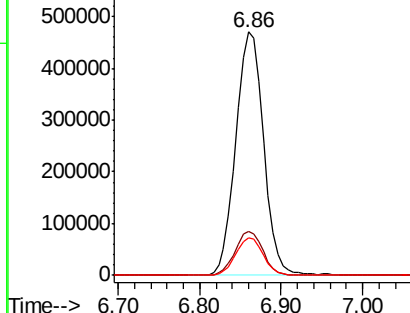
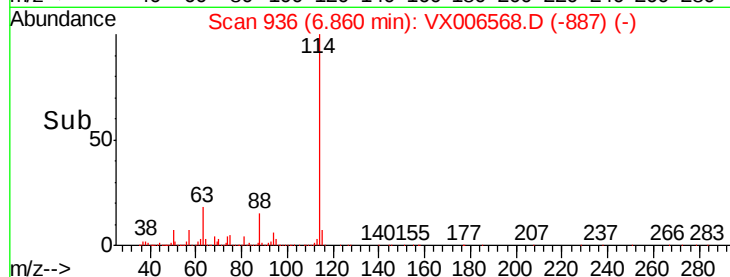
88 15.3 0.0 29.0



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



#35

Dibromofluoromethane

Concen: 47.514 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

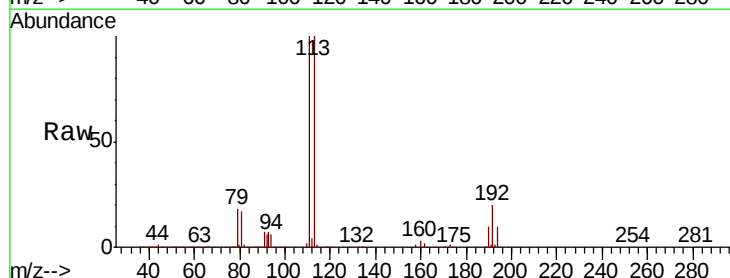
Tgt Ion:113 Resp: 341595

Ion Ratio Lower Upper

113 100

111 102.3 81.1 121.7

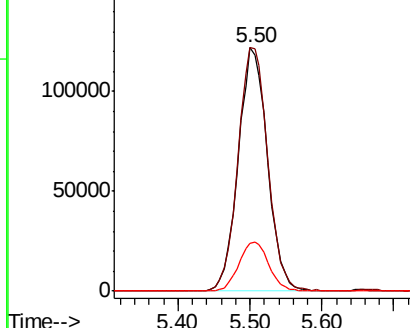
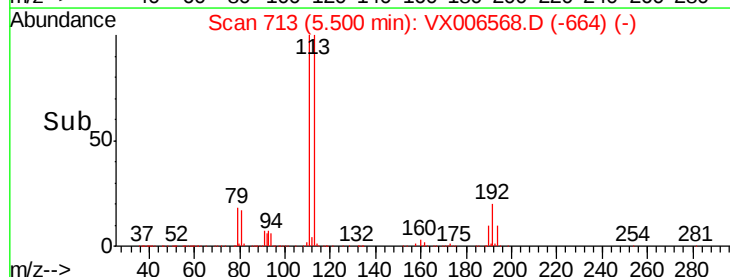
192 20.8 18.2 27.2

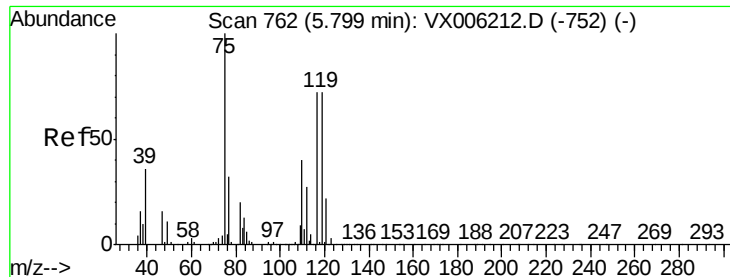


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.047 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

Instrument :

MSVOA_X

ClientSampleId :

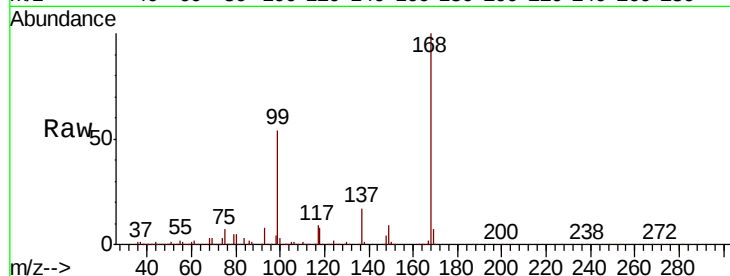
Tot Ion: 75 Resp: 47194

Ion Ratio Lower Upper

75 100

110 10.7 20.4 61.3#

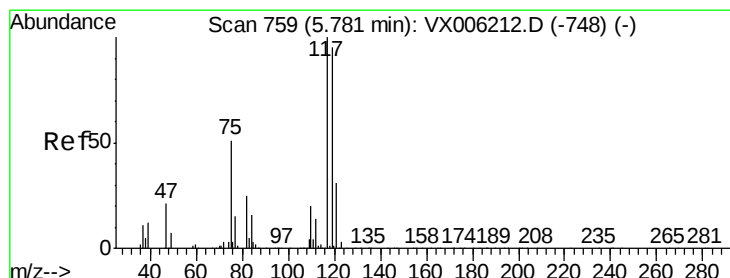
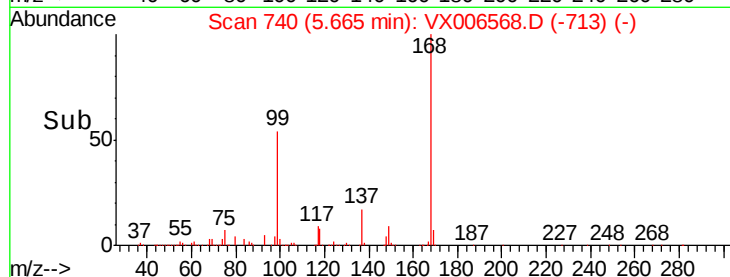
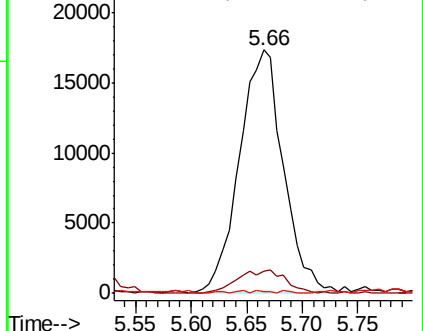
77 0.2 24.9 37.3#



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: 6.101 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

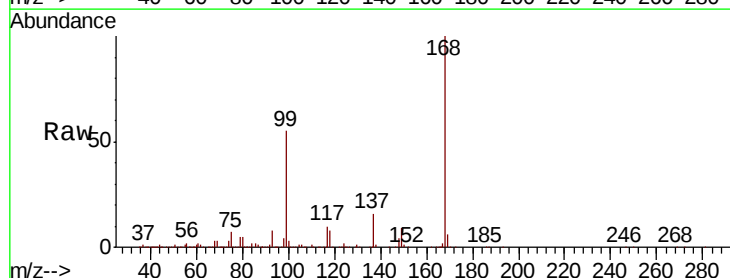
Tgt Ion: 117 Resp: 67114

Ion Ratio Lower Upper

117 100

119 4.6 75.8 113.8#

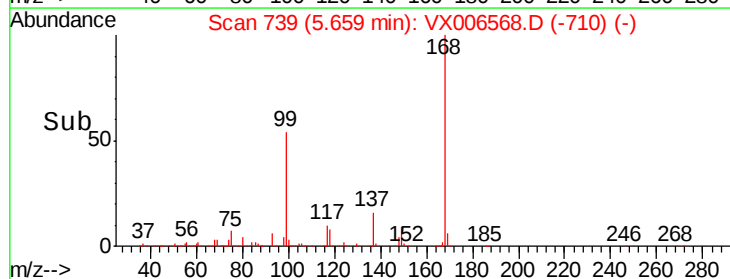
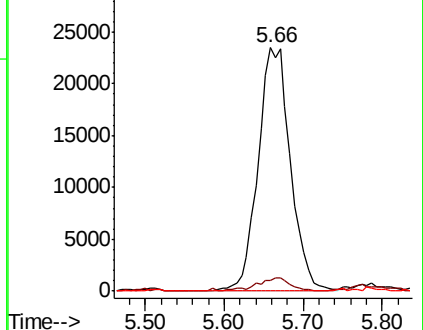
121 0.0 24.6 37.0#

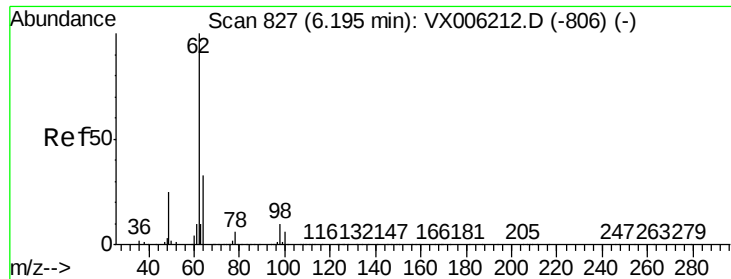


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#42

1,2-Dichloroethane

Concen: 0.283 ug/l

RT: 6.21 min Scan# 829

Delta R.T. 0.01 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

Instrument :

MSVOA_X

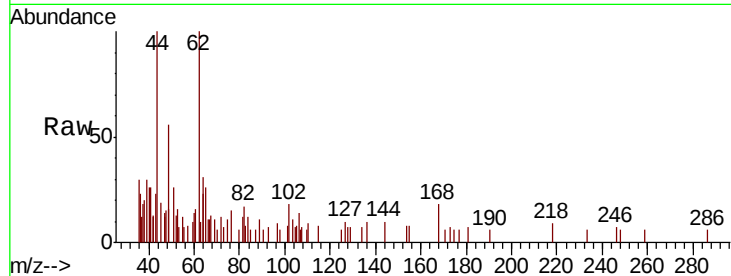
ClientSampled :

Tot Ion: 62 Resp: 2594

Ion Ratio Lower Upper

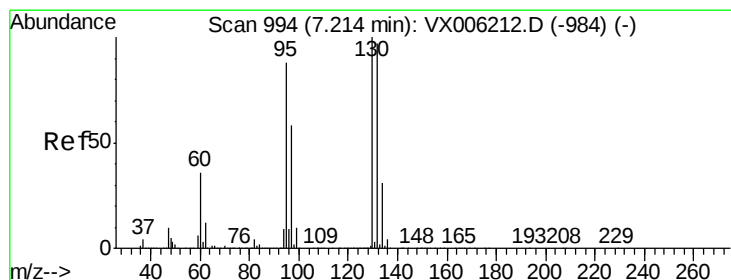
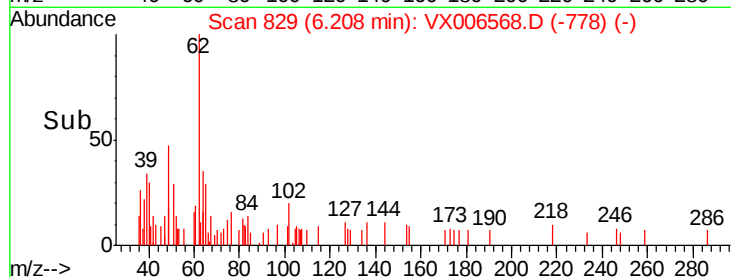
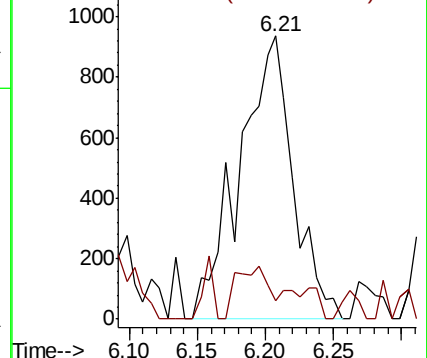
62 100

98 11.2 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#44

Trichloroethene

Concen: 64.665 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006568.D

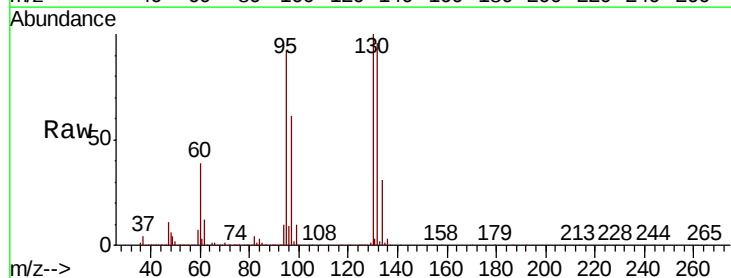
Acq: 17 Dec 2018 13:12

Tgt Ion:130 Resp: 548632

Ion Ratio Lower Upper

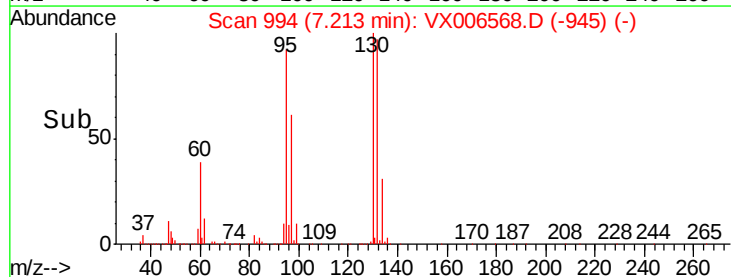
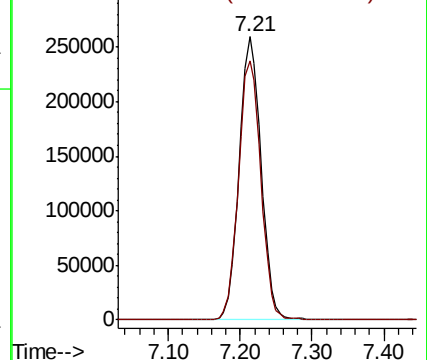
130 100

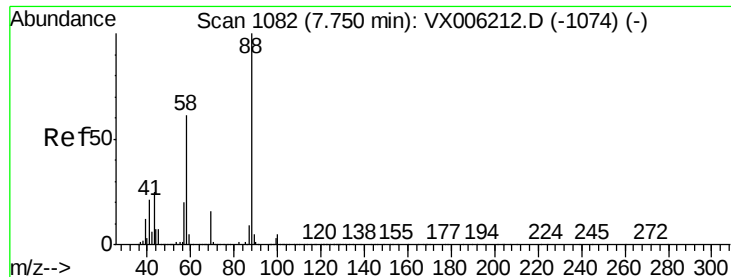
95 91.7 0.0 175.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 15.463 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

Instrument :

MSVOA_X

ClientSampleId :

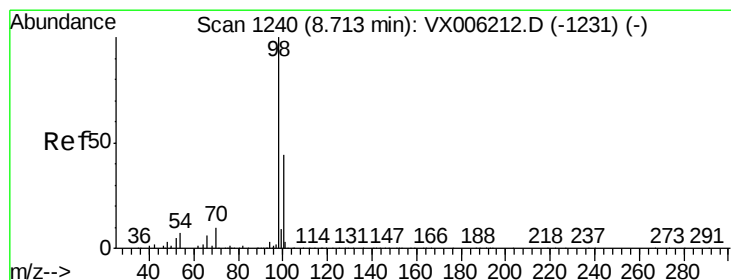
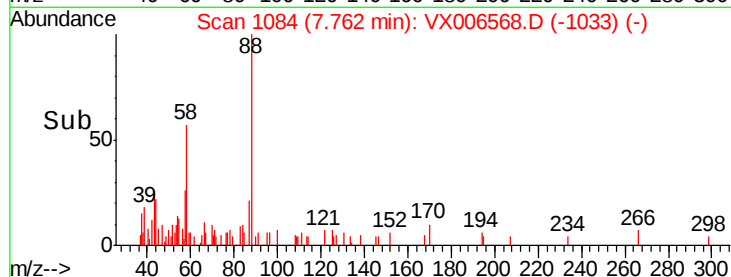
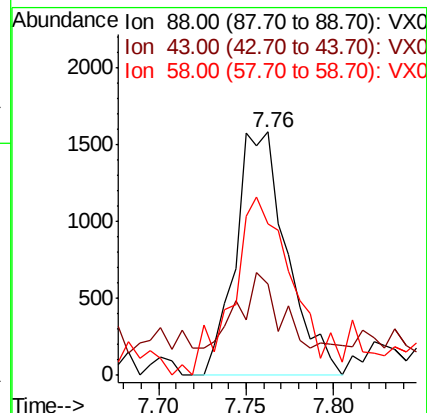
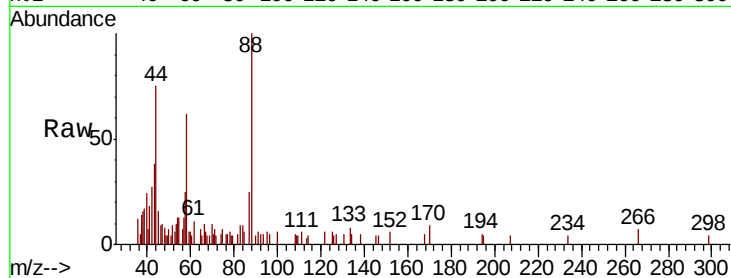
Tot Ion: 88 Resp: 3237

Ion Ratio Lower Upper

88 100

43 31.3 23.2 34.8

58 86.0 51.4 77.0#



#50

Toluene-d8

Concen: 50.073 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006568.D

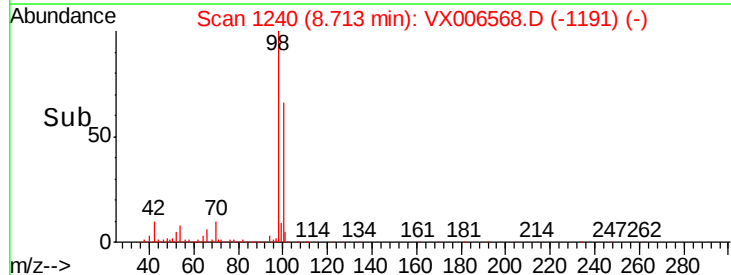
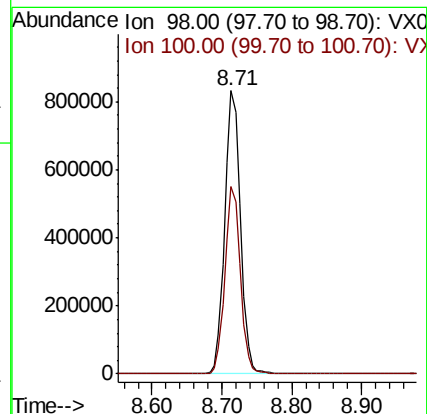
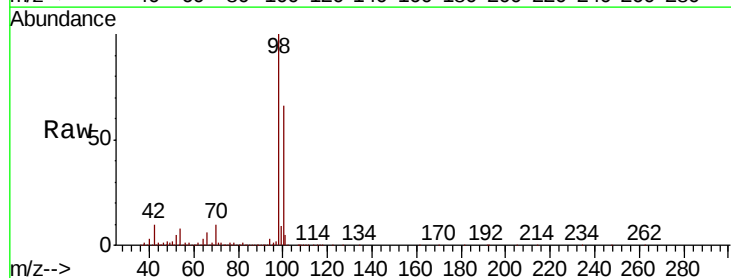
Acq: 17 Dec 2018 13:12

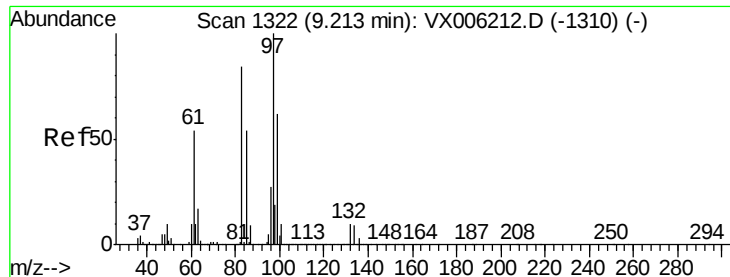
Tgt Ion: 98 Resp: 1309443

Ion Ratio Lower Upper

98 100

100 64.7 52.2 78.2





#55

1,1,2-Trichloroethane

Concen: 0.206 ug/l

RT: 9.22 min Scan# 1323

Delta R.T. 0.01 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 97 Resp: 1544

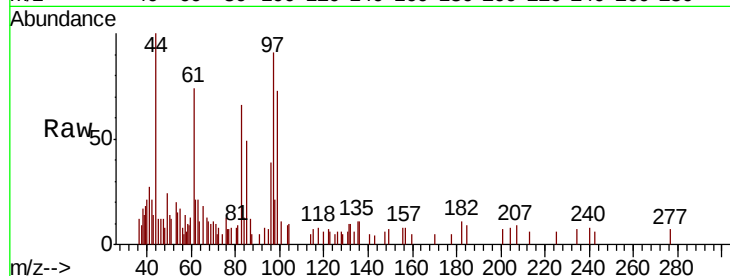
Ion Ratio Lower Upper

97 100

83 66.6 67.1 100.7#

85 36.9 43.2 64.8#

99 80.0 49.8 74.6#

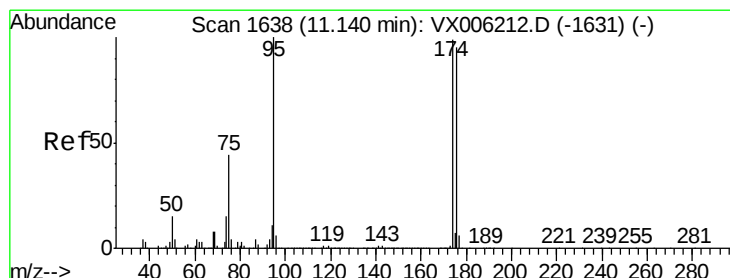
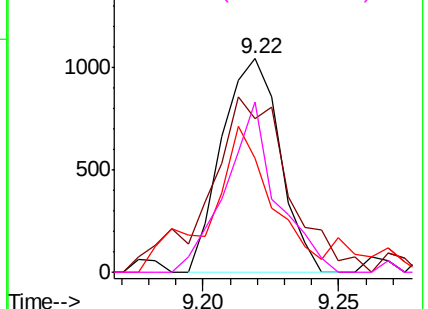
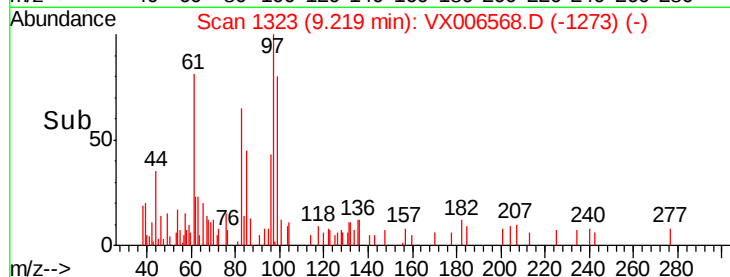


Abundance Ion 96.90 (96.60 to 97.60): VX0

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



#62

4-Bromofluorobenzene

Concen: 48.705 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006568.D

Acq: 17 Dec 2018 13:12

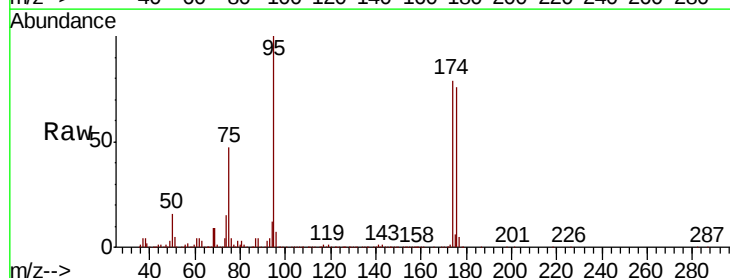
Tgt Ion: 95 Resp: 479959

Ion Ratio Lower Upper

95 100

174 85.4 0.0 187.0

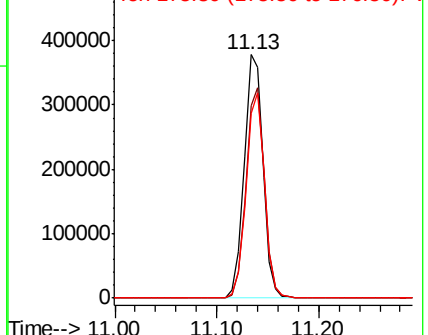
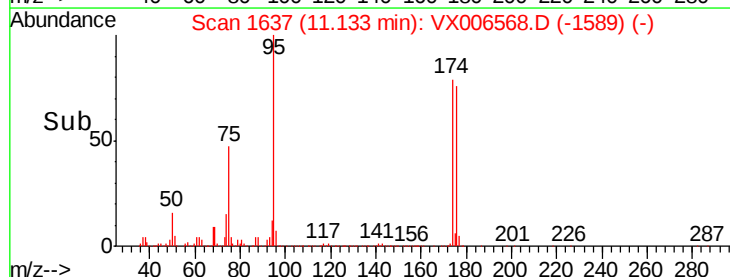
176 82.9 0.0 181.8

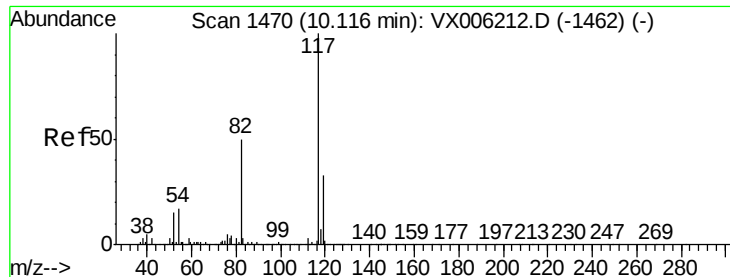


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

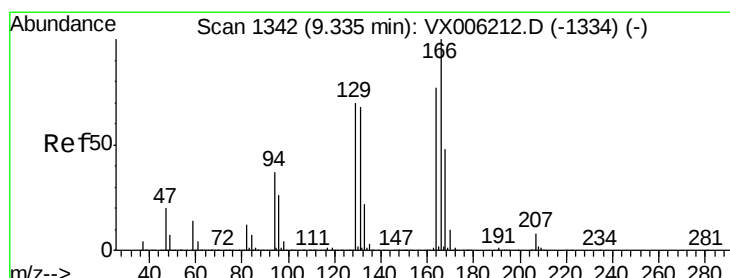
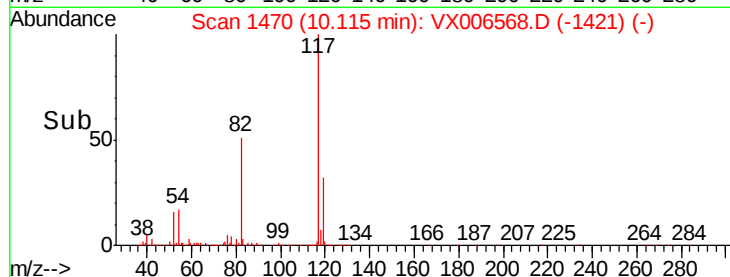
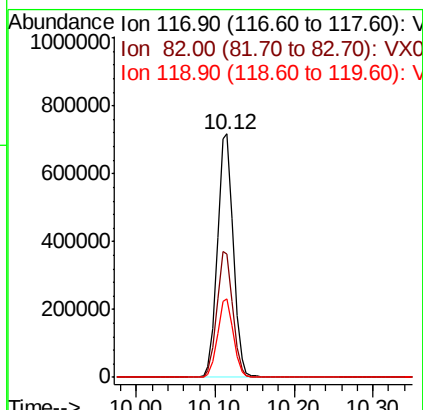
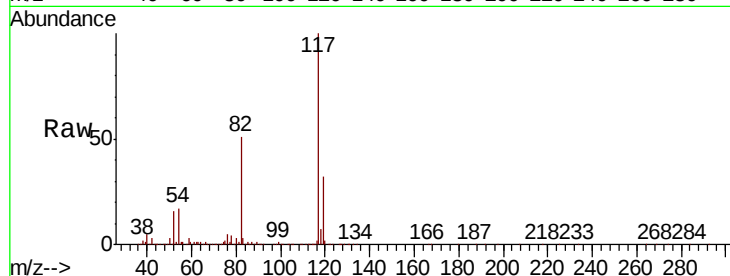




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

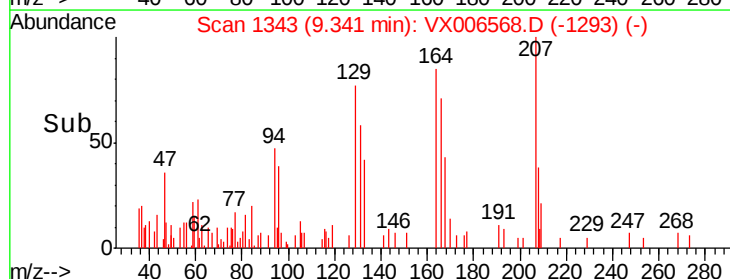
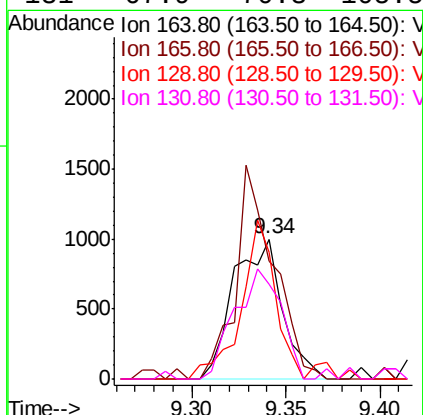
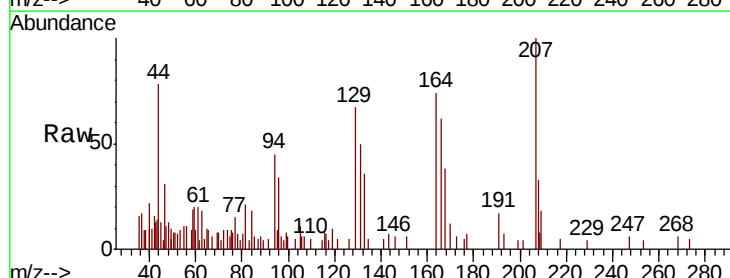
Instrument :
MSVOA_X
ClientSampleId :

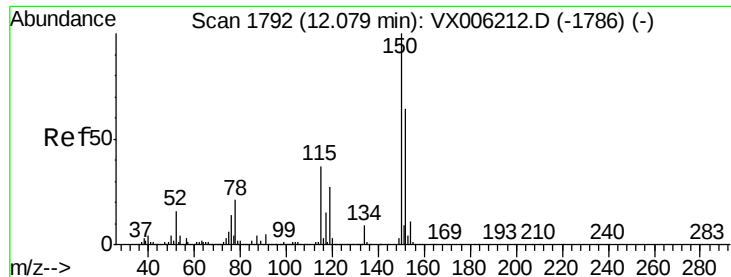
Tot Ion:117 Resp: 1008156
Ion Ratio Lower Upper
117 100
82 50.8 39.6 59.4
119 32.1 26.3 39.5



#64
Tetrachloroethene
Concen: 0.236 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

Tgt Ion:164 Resp: 1791
Ion Ratio Lower Upper
164 100
166 83.9 104.2 156.2#
129 90.9 72.6 108.8
131 67.9 70.3 105.5#



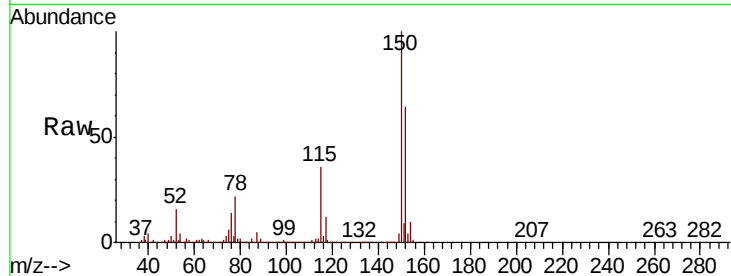


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.8	39.0	116.9
150	155.4	0.0	345.8

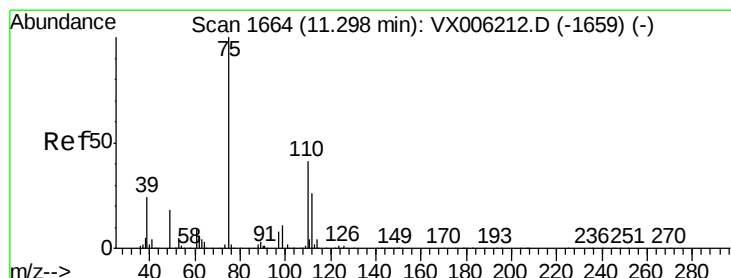
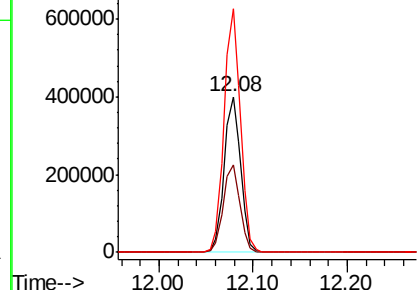
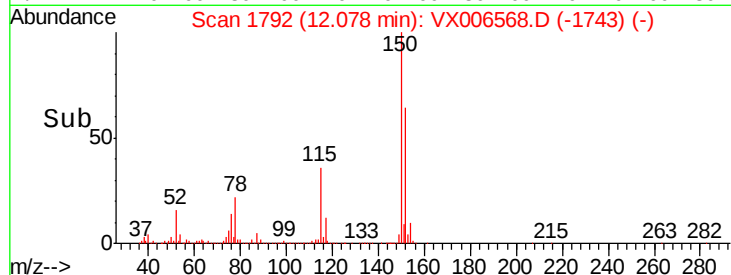


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

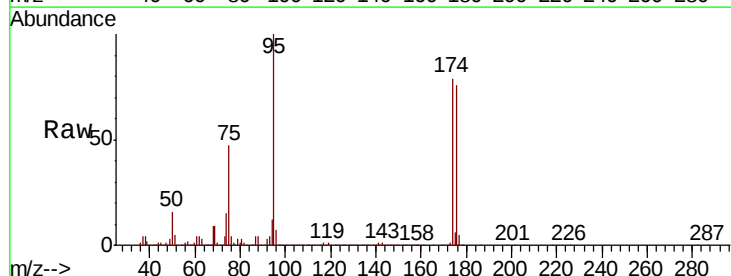
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane
Concen: 23.653 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006568.D
Acq: 17 Dec 2018 13:12

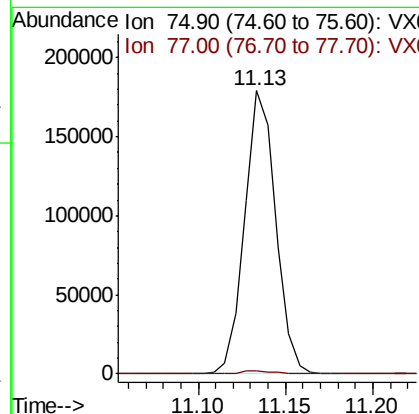
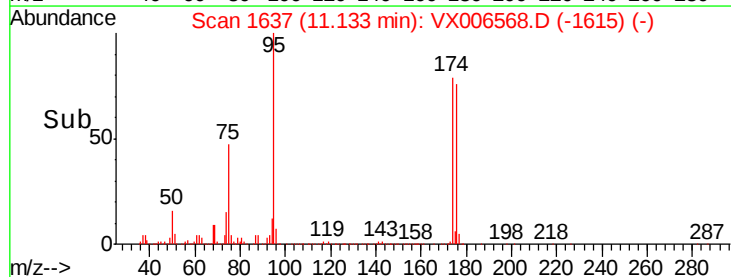
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.9	59.7

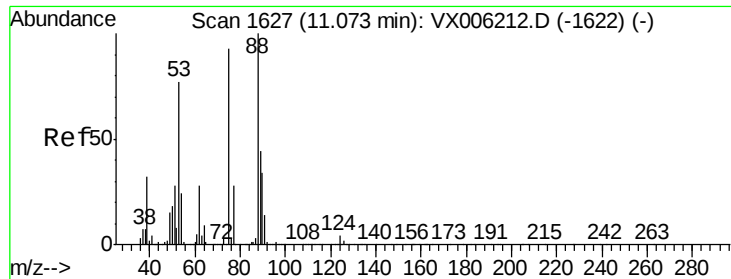


Abundance

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: 55.508 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006568.D
 Acq: 17 Dec 2018 13:12

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 221687
 Ion Ratio Lower Upper
 75 100
 53 0.1 64.4 96.6#
 89 0.1 44.2 66.4#

