

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006684.D
 Acq On : 20 Dec 2018 18:54
 Operator : JC/MD
 Sample : J6484-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

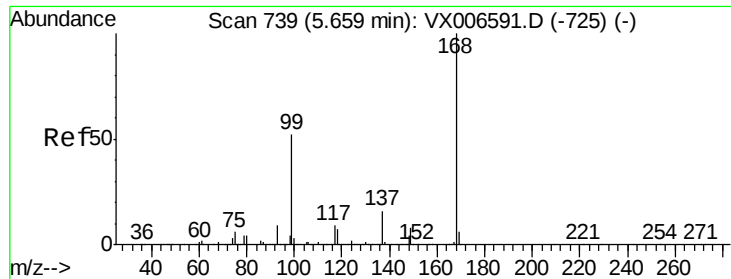
Quant Time: Dec 21 03:34:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	641263	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1018860	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	926625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	444156	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	342080	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
35) Dibromofluoromethane	5.51	113	301886	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
50) Toluene-d8	8.71	98	1202847	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	11.13	95	427420	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1476	0.234	ug/l #	28
4) Vinyl Chloride	1.41	62	2671	0.405	ug/l	100
5) Bromomethane	1.64	94	368	Below Cal	#	73
11) Tert butyl alcohol	3.06	59	1517	0.984	ug/l #	84
12) 1,1-Dichloroethene	2.37	96	1805	0.315	ug/l #	80
13) Acrolein	2.31	56	1049	1.008	ug/l #	51
16) Acetone	2.45	43	10995	3.463	ug/l	94
18) Methyl Acetate	2.78	43	9985	1.069	ug/l	95
21) trans-1,2-Dichloroethene	3.17	96	12142	1.913	ug/l	96
25) 2-Butanone	4.70	43	1895	0.424	ug/l #	68
27) cis-1,2-Dichloroethene	4.60	96	462233	65.994	ug/l	93
28) Bromochloromethane	5.02	49	173	Below Cal	#	1
31) Cyclohexane	5.66	56	11172	1.168	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	43118	5.110	ug/l #	49
38) Carbon Tetrachloride	5.67	117	60585	7.388	ug/l #	15
44) Trichloroethene	7.21	130	499629	64.356	ug/l	98
49) 1,4-Dioxane	7.76	88	26	Below Cal	#	1
55) 1,1,2-Trichloroethane	9.34	97	31286	4.612	ug/l #	1
60) Dibromochloromethane	9.34	129	3560121	480.838	ug/l #	10
64) Tetrachloroethene	9.34	164	3773313	514.253	ug/l	99
71) Bromoform	11.09	173	131	4.482	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	202158	24.491	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	202158	72.457	ug/l #	10
90) Hexachloroethane	12.58	117	67	3.308	ug/l #	6

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :

MSVOA_X

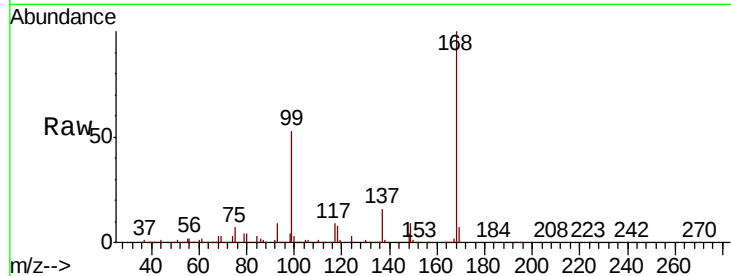
ClientSampled :

Tot Ion:168 Resp: 641263

Ion Ratio Lower Upper

168 100

99 53.0 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

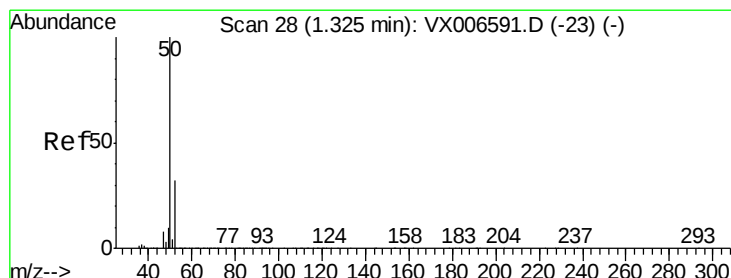
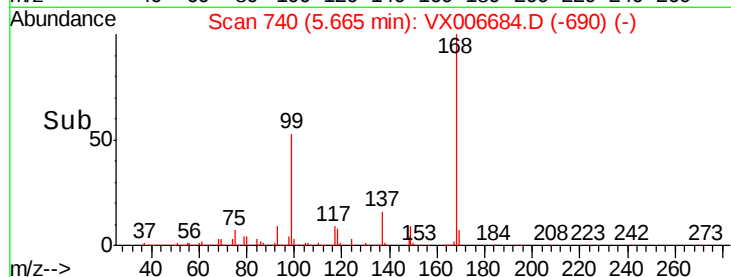
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.234 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006684.D

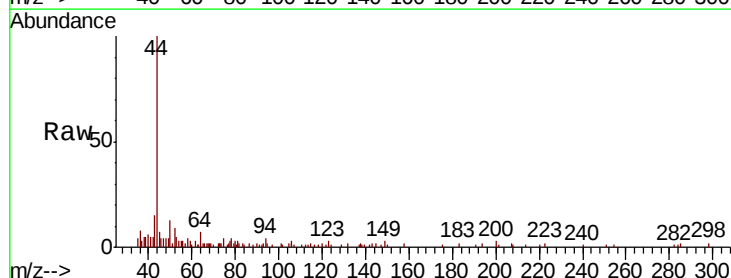
Acq: 20 Dec 2018 18:54

Tgt Ion: 50 Resp: 1476

Ion Ratio Lower Upper

50 100

52 72.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

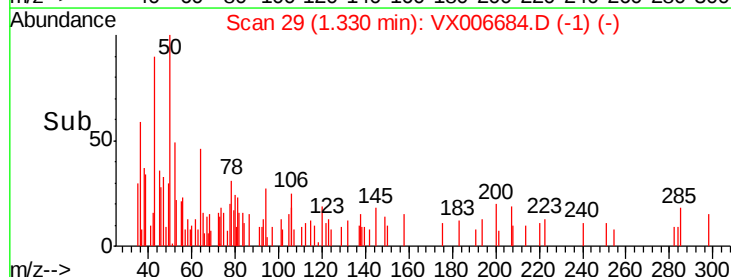
600

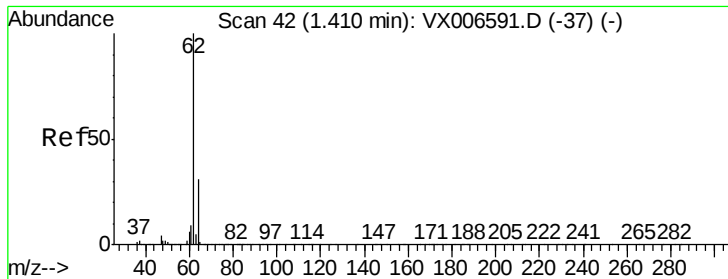
400

200

0

Time--> 1.25 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 0.405 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :

MSVOA_X

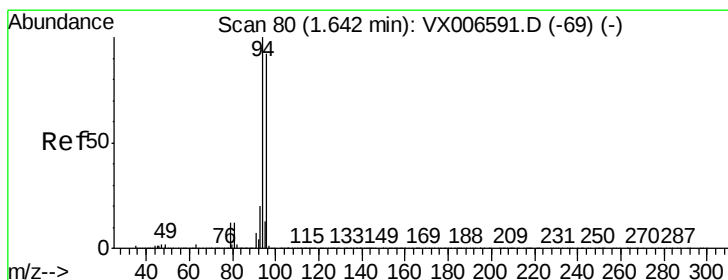
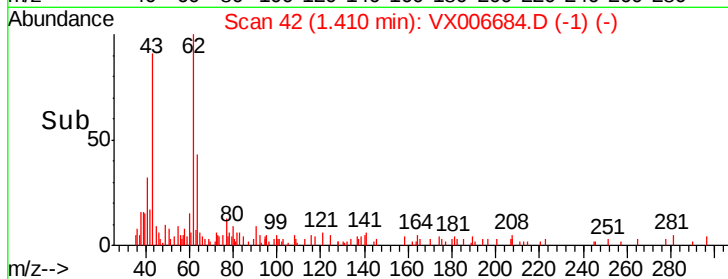
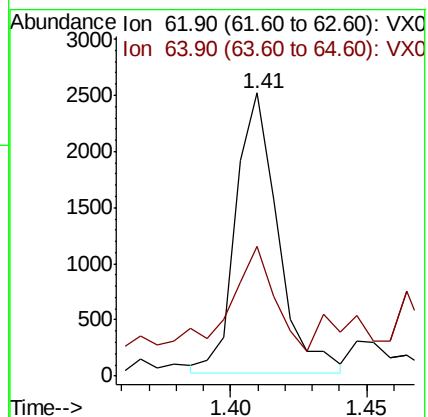
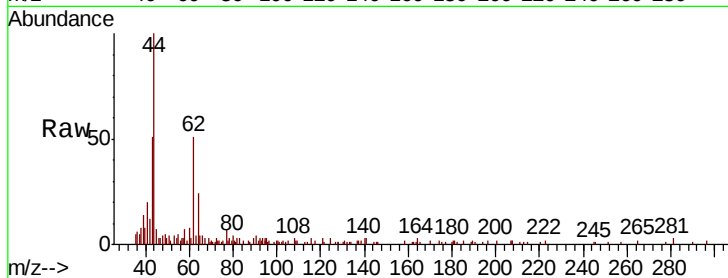
ClientSampled :

Tot Ion: 62 Resp: 2671

Ion Ratio Lower Upper

62 100

64 31.4 25.1 37.7



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006684.D

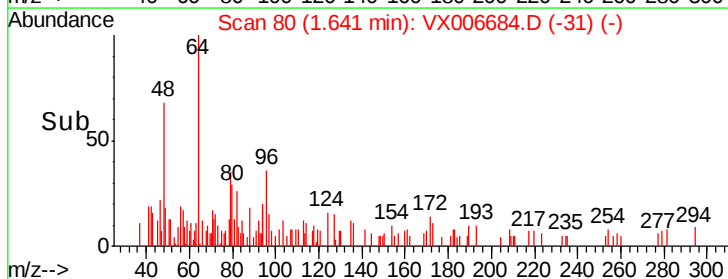
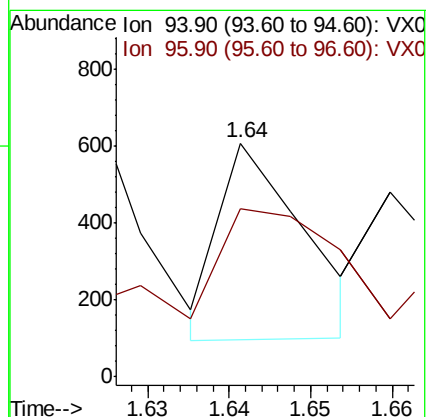
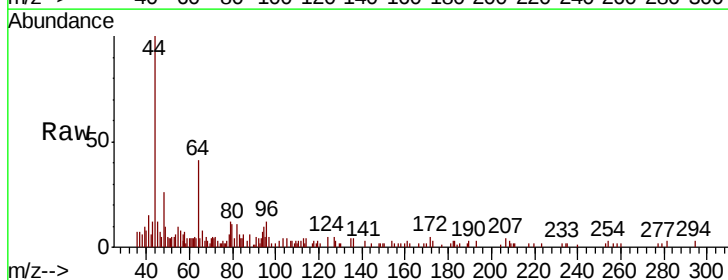
Acq: 20 Dec 2018 18:54

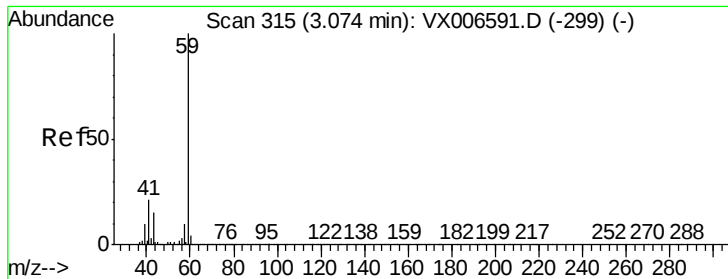
Tgt Ion: 94 Resp: 368

Ion Ratio Lower Upper

94 100

96 66.1 73.4 110.2#



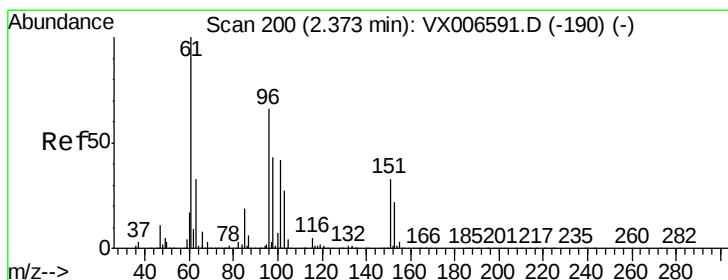
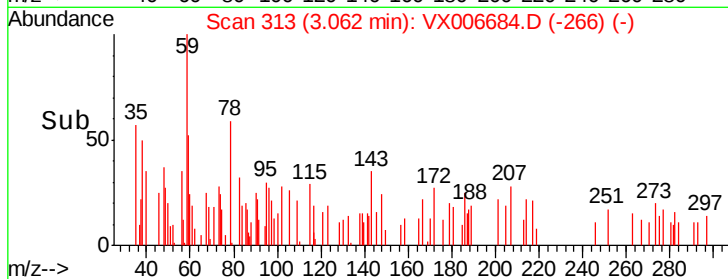
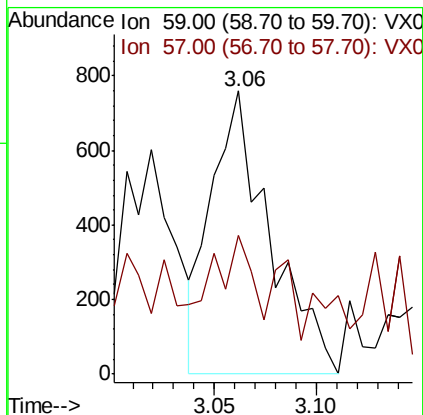
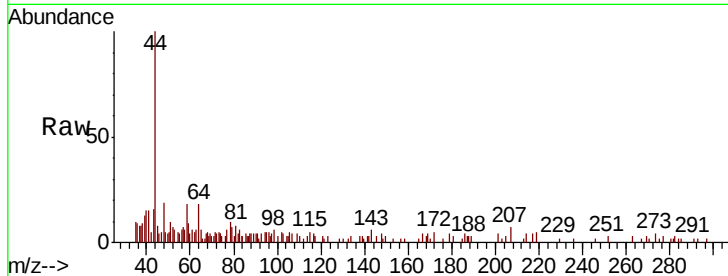


#11

Tert butyl alcohol
 Concen: 0.984 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VX006684.D
 Acq: 20 Dec 2018 18:54

Instrument :
 MSVOA_X
 ClientSampled :

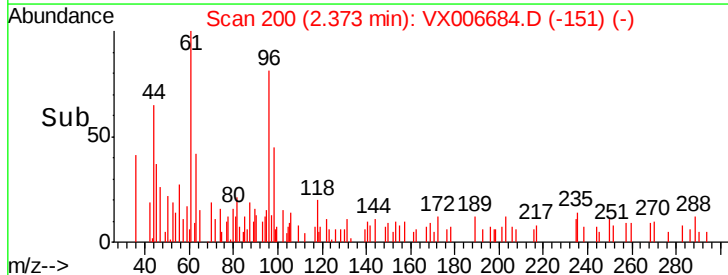
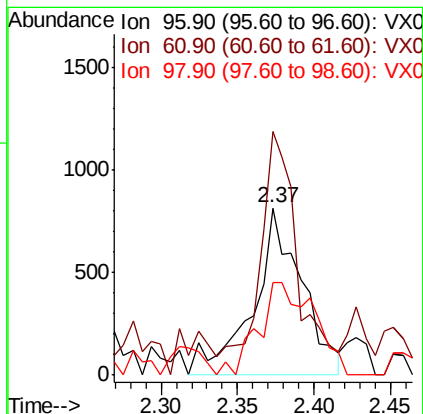
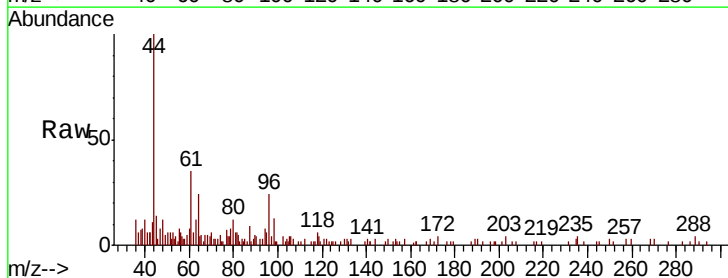
Tot Ion: 59 Resp: 1517
 Ion Ratio Lower Upper
 59 100
 57 16.5 8.5 12.7#

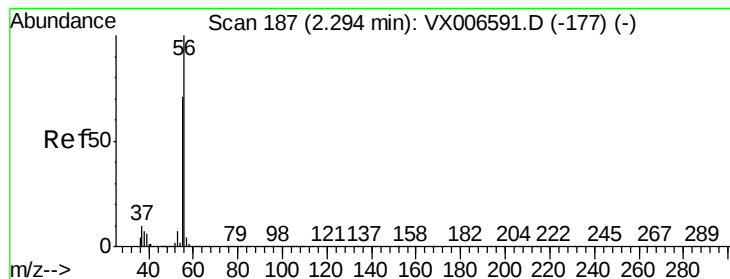


#12

1,1-Dichloroethene
 Concen: 0.315 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX006684.D
 Acq: 20 Dec 2018 18:54

Tgt Ion: 96 Resp: 1805
 Ion Ratio Lower Upper
 96 100
 61 131.5 121.4 182.2
 98 41.7 51.9 77.9#





#13

Acrolein

Concen: 1.008 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.02 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :

MSVOA_X

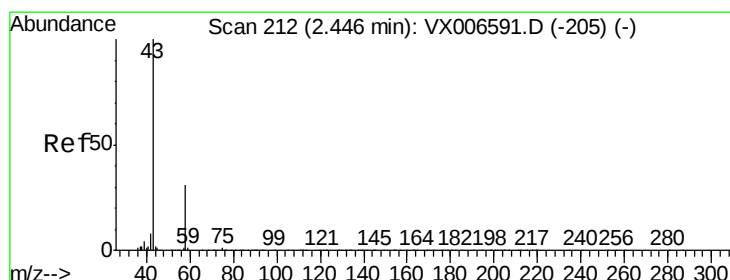
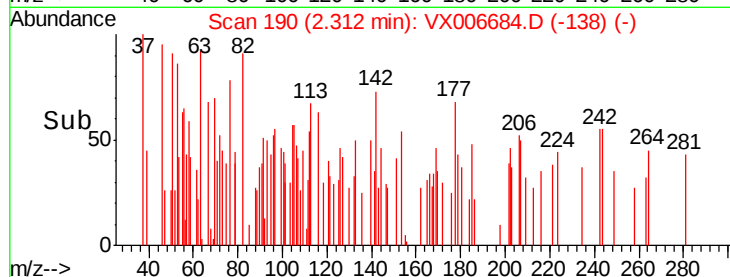
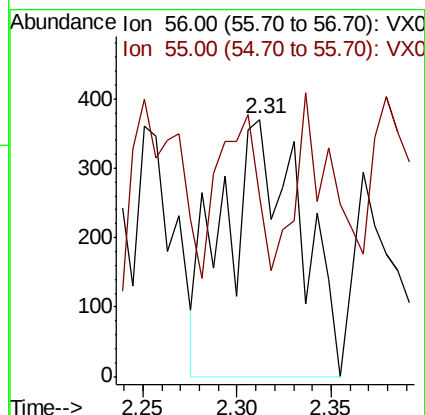
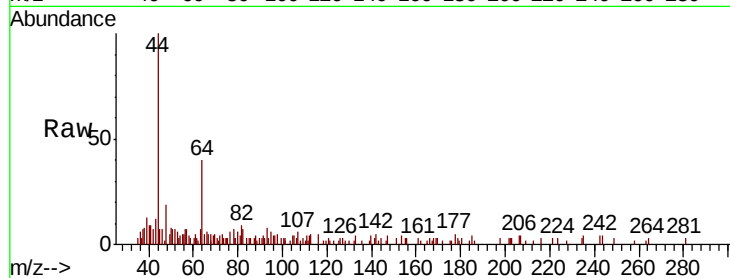
ClientSampleId :

Tot Ion: 56 Resp: 1049

Ion Ratio Lower Upper

56 100

55 31.6 58.2 87.4#



#16

Acetone

Concen: 3.463 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006684.D

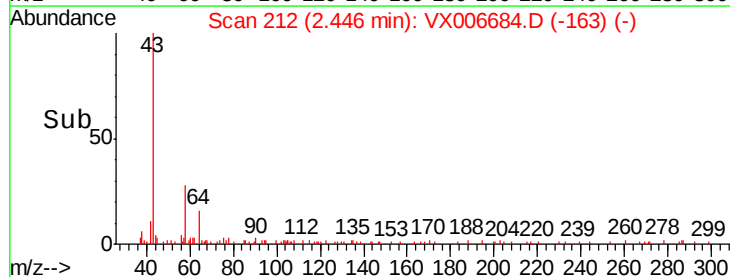
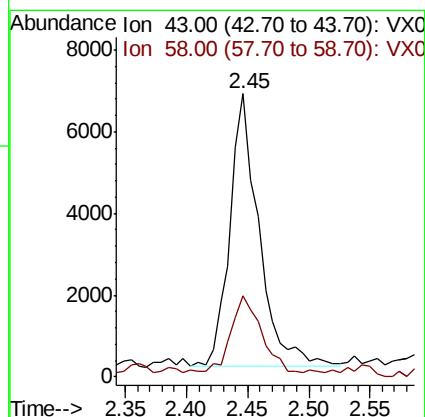
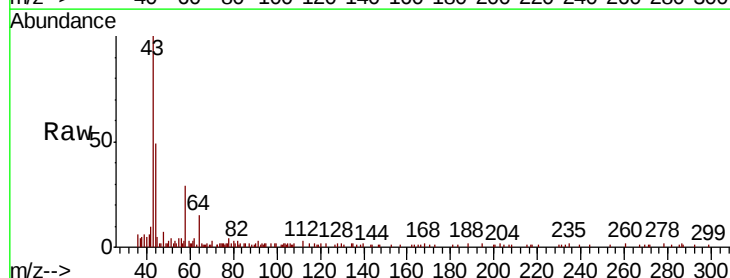
Acq: 20 Dec 2018 18:54

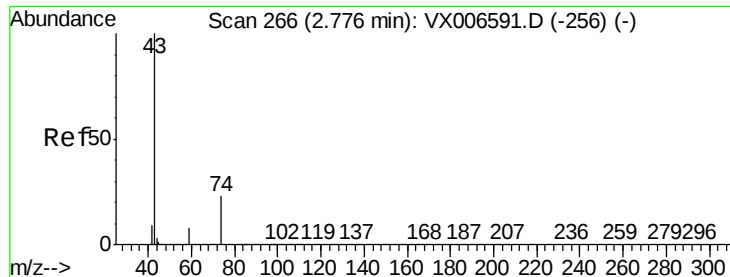
Tgt Ion: 43 Resp: 10995

Ion Ratio Lower Upper

43 100

58 28.1 25.0 37.6

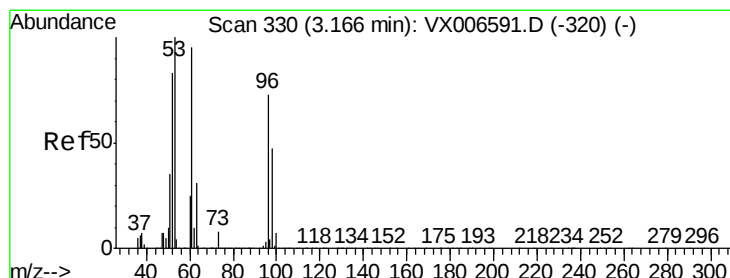
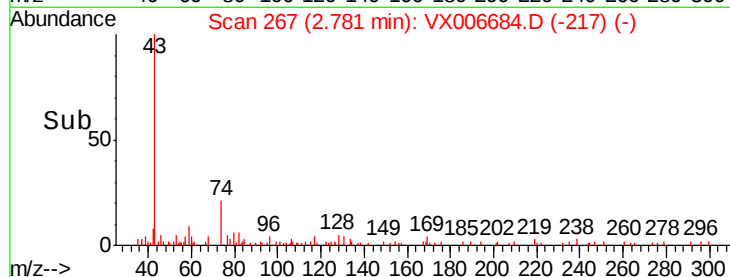
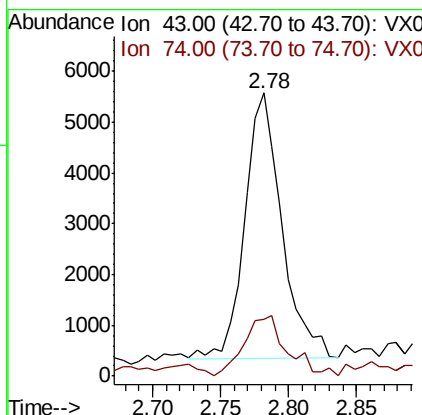
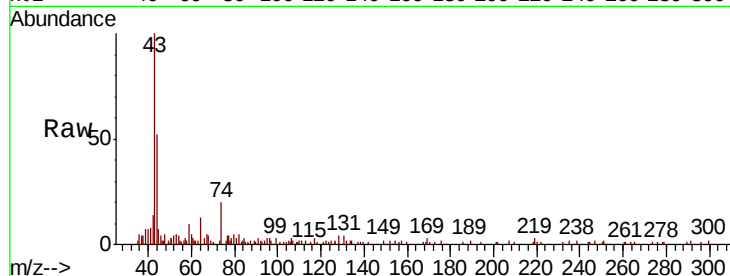




#18
Methvl Acetate
Concen: 1.069 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006684.D
Acq: 20 Dec 2018 18:54

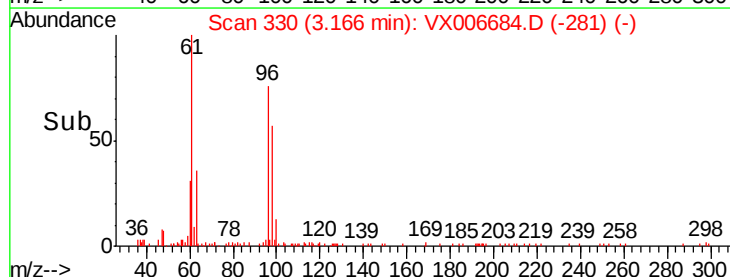
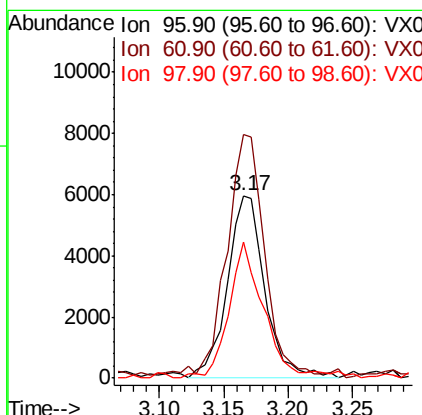
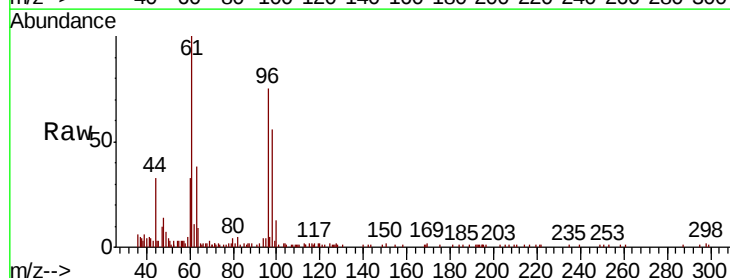
Instrument :
MSVOA_X
ClientSampleId :

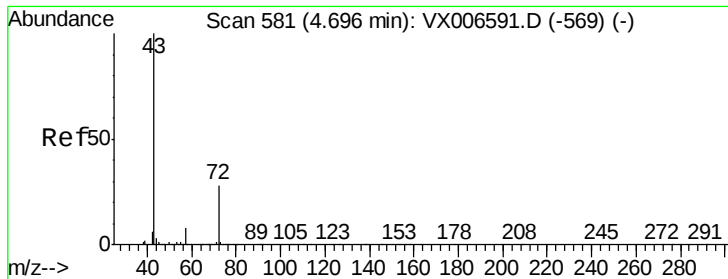
Tot Ion: 43 Resp: 9985
Ion Ratio Lower Upper
43 100
74 25.9 18.6 28.0



#21
trans-1,2-Dichloroethene
Concen: 1.913 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX006684.D
Acq: 20 Dec 2018 18:54

Tgt Ion: 96 Resp: 12142
Ion Ratio Lower Upper
96 100
61 128.5 103.7 155.5
98 72.2 51.0 76.6





#25

2-Butanone

Concen: 0.424 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.00 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :

MSVOA_X

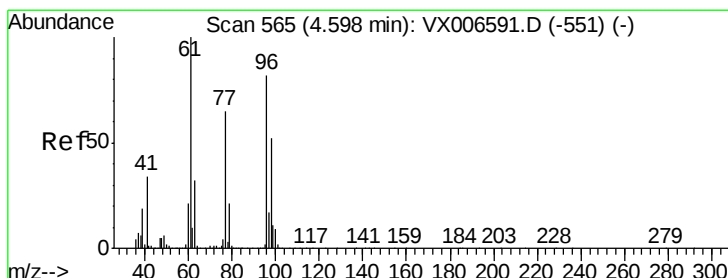
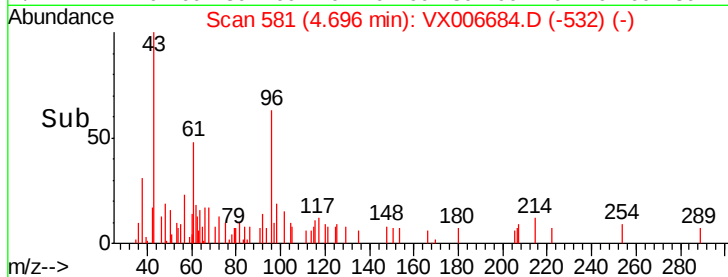
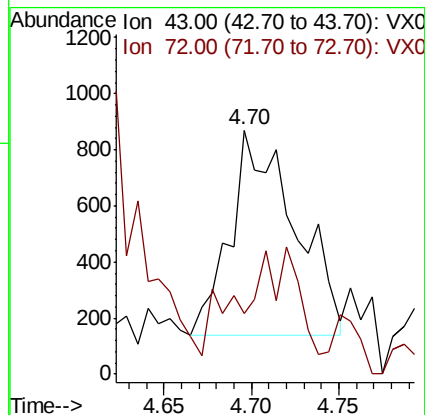
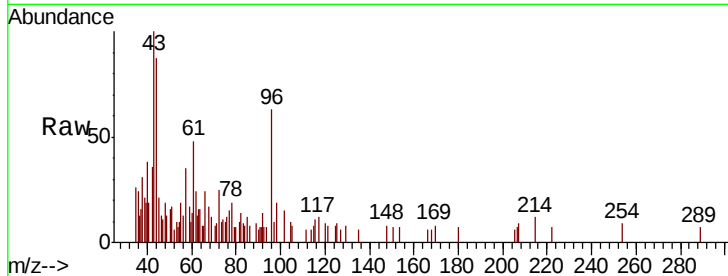
ClientSampleId :

Tot Ion: 43 Resp: 1895

Ion Ratio Lower Upper

43 100

72 11.2 22.4 33.6#



#27

cis-1,2-Dichloroethene

Concen: 65.994 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

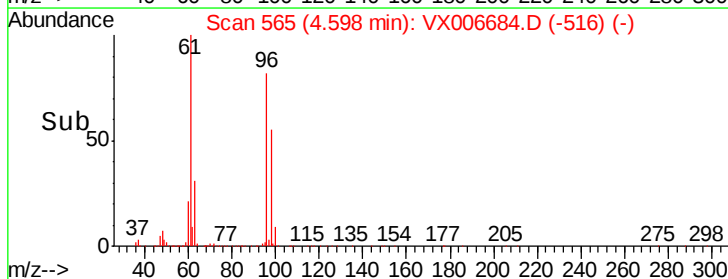
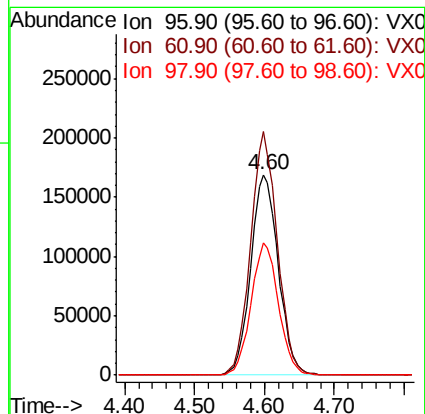
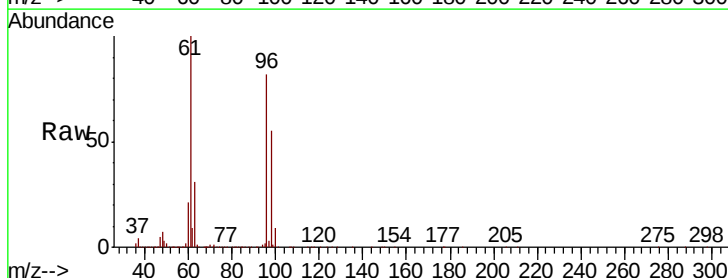
Tgt Ion: 96 Resp: 462233

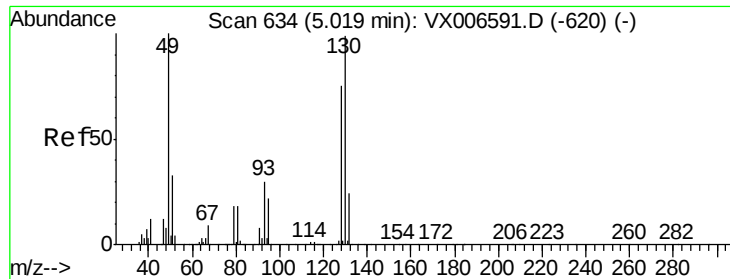
Ion Ratio Lower Upper

96 100

61 117.4 0.0 258.6

98 65.7 0.0 132.0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :
MSVOA_X
ClientSampleId :

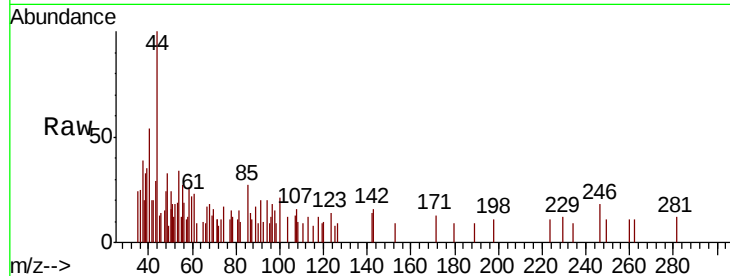
Tot Ion: 49 Resp: 173

Ion Ratio Lower Upper

49 100

129 35.3 0.0 5.4#

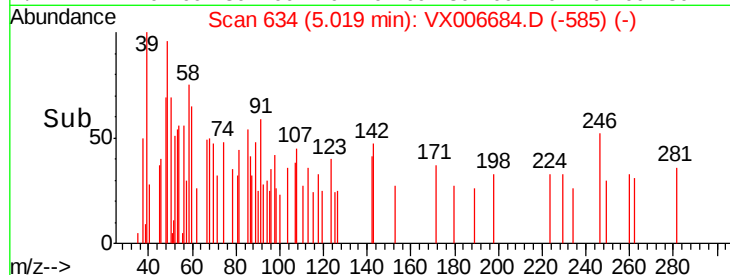
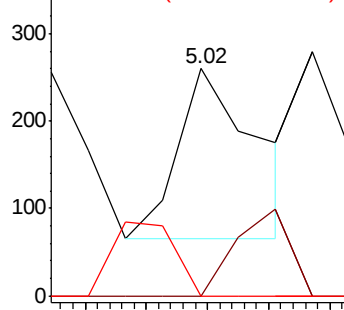
130 0.0 77.7 116.5#



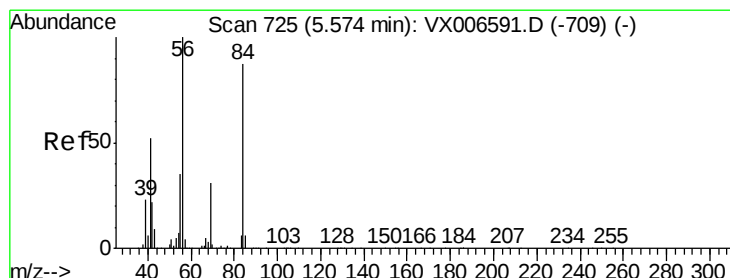
Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->



#31

Cyclohexane

Concen: 1.168 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

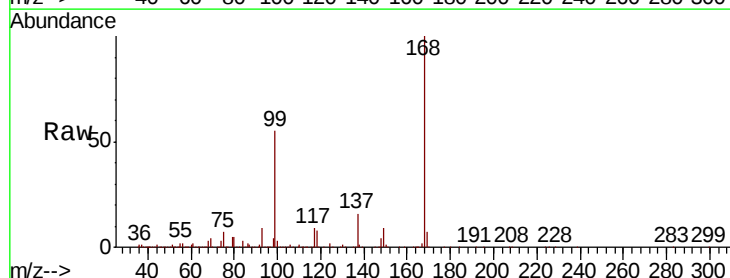
Tgt Ion: 56 Resp: 11172

Ion Ratio Lower Upper

56 100

69 203.3 24.4 36.6#

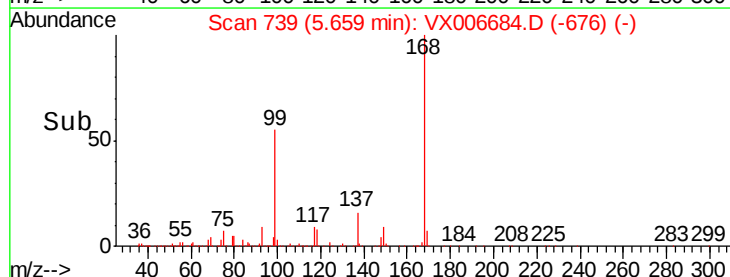
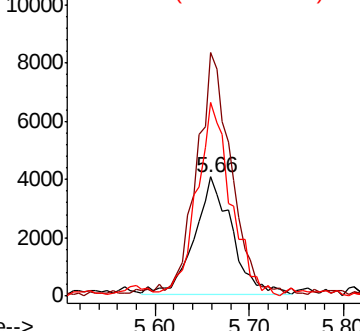
84 159.2 70.0 105.0#



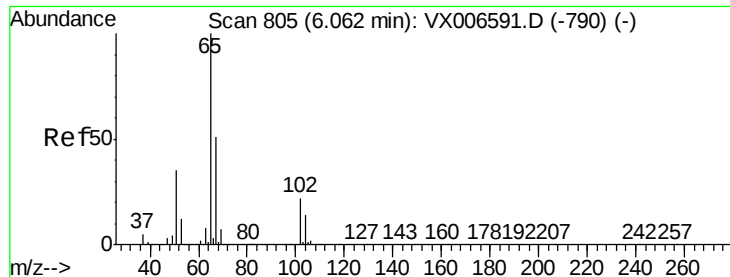
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



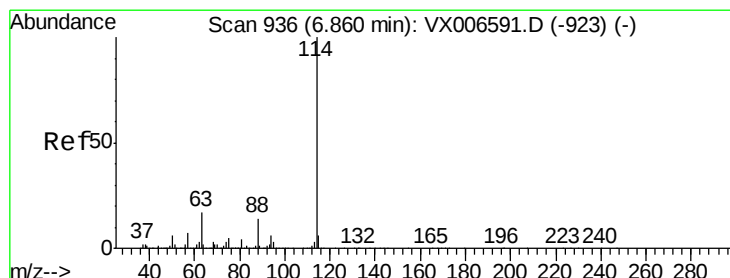
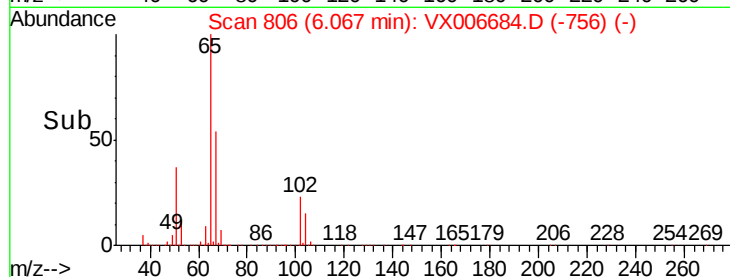
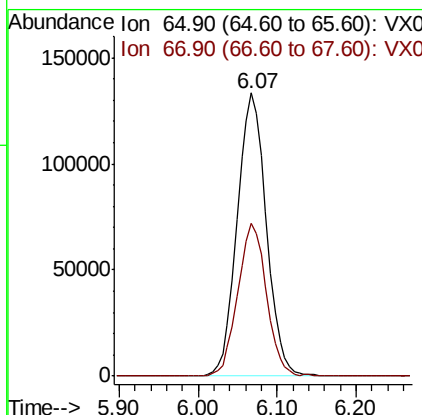
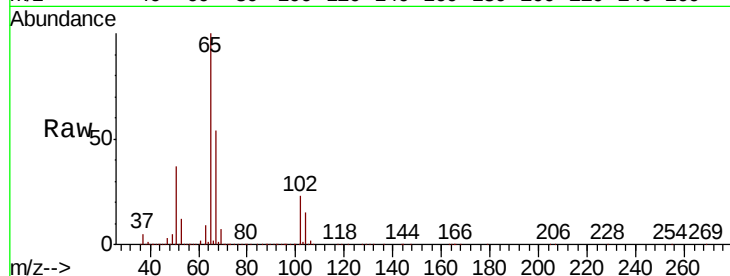
Time-->



#33
 1,2-Dichloroethane-d4
 Concen: 49.496 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX006684.D
 Acq: 20 Dec 2018 18:54

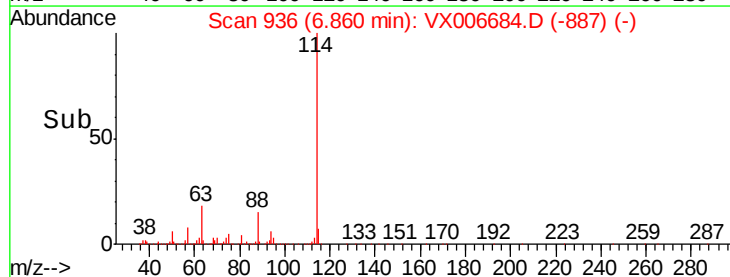
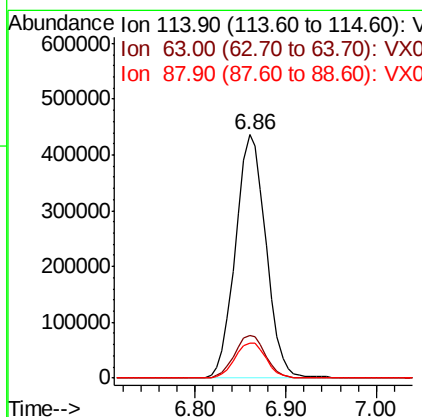
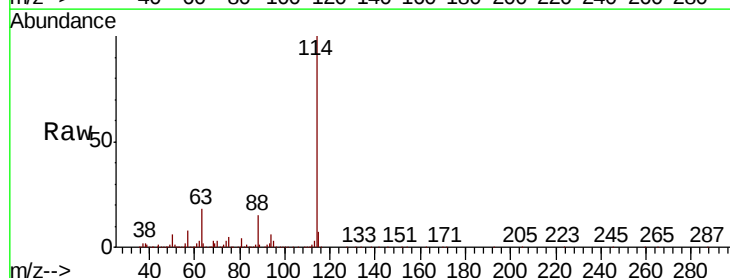
Instrument :
 MSVOA_X
 ClientSampleId :

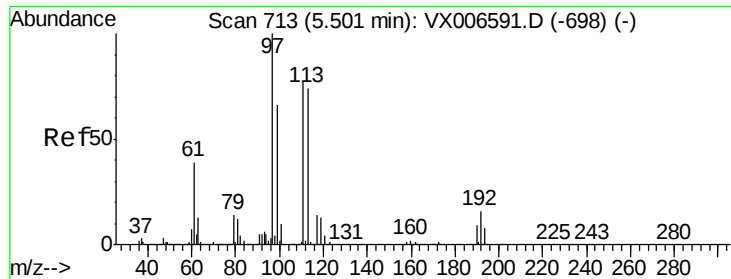
Tot Ion: 65 Resp: 342080
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX006684.D
 Acq: 20 Dec 2018 18:54

Tgt Ion: 114 Resp: 1018860
 Ion Ratio Lower Upper
 114 100
 63 17.6 0.0 34.8
 88 14.5 0.0 28.8





#35

Dibromofluoromethane

Concen: 46.854 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :

MSVOA_X

ClientSampleId :

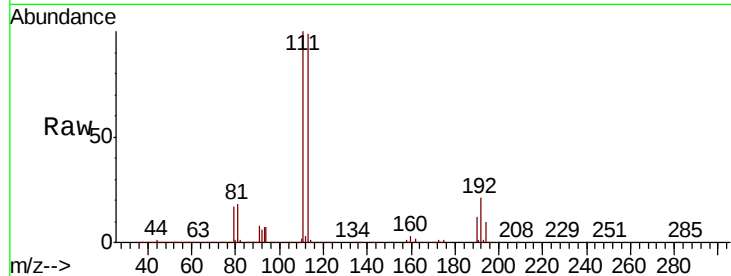
Tot Ion:113 Resp: 301886

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

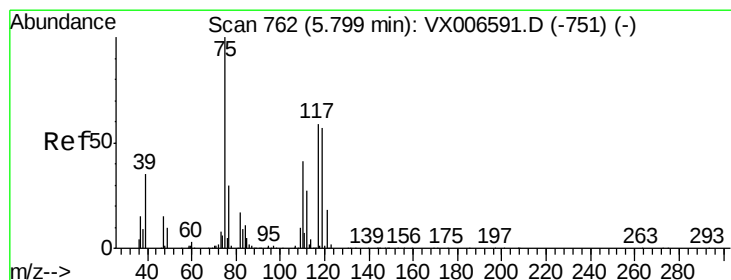
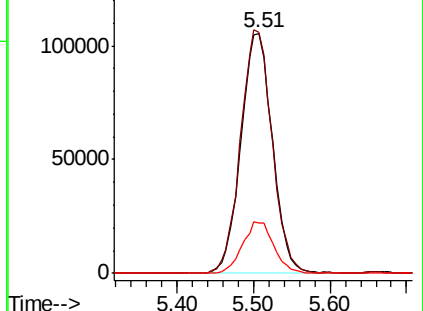
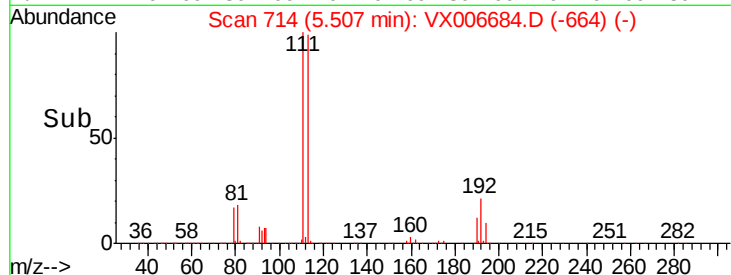
192 21.3 16.7 25.1



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: 5.110 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

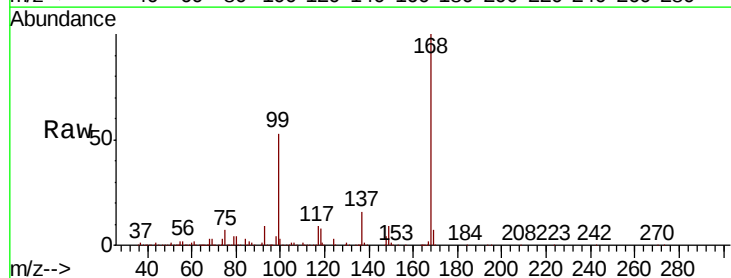
Tgt Ion: 75 Resp: 43118

Ion Ratio Lower Upper

75 100

110 11.1 20.2 60.5#

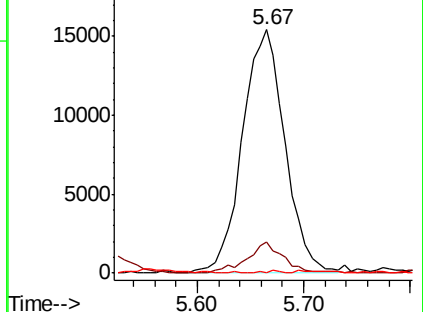
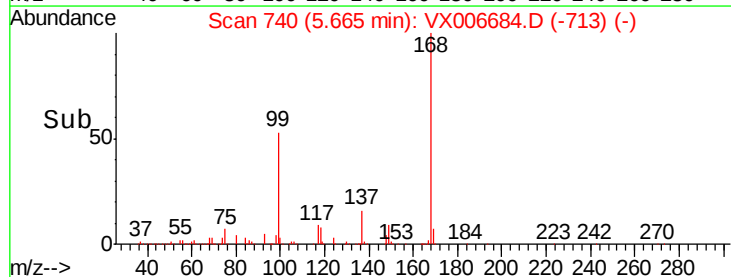
77 0.4 24.8 37.2#

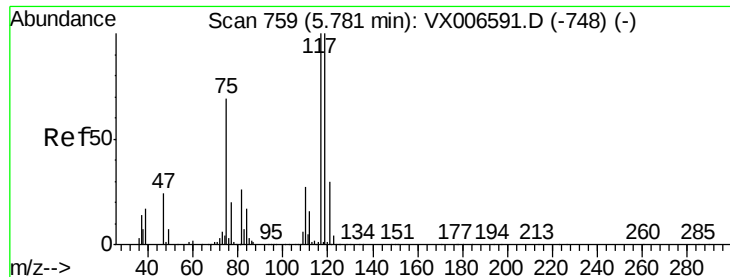


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.388 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :

MSVOA_X

ClientSampled :

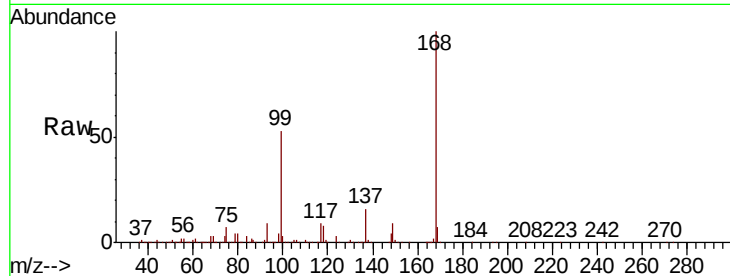
Tot Ion:117 Resp: 60585

Ion Ratio Lower Upper

117 100

119 5.5 79.4 119.2#

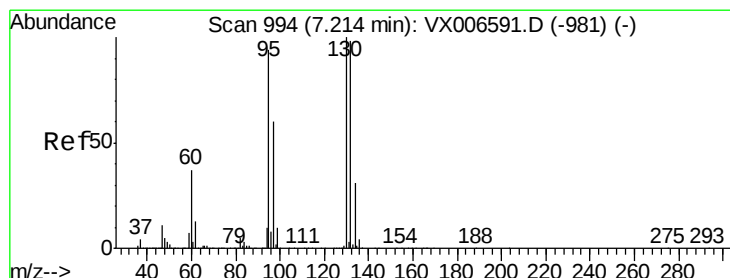
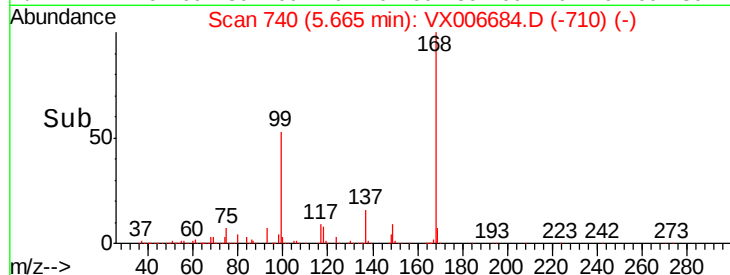
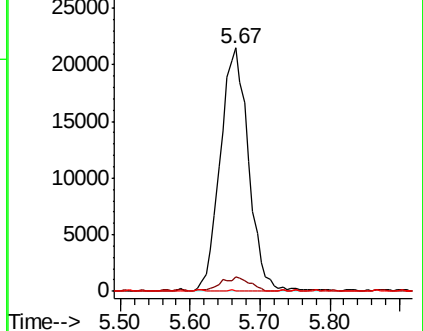
121 0.0 24.0 36.0#



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



#44

Trichloroethene

Concen: 64.356 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX006684.D

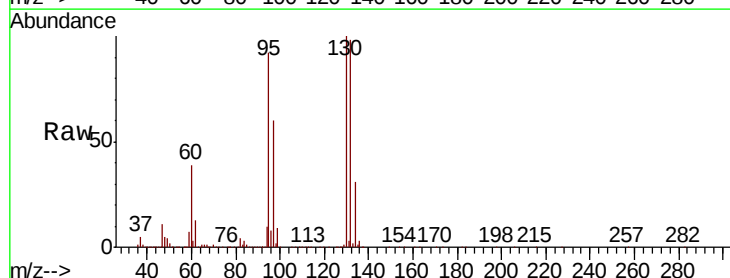
Acq: 20 Dec 2018 18:54

Tgt Ion:130 Resp: 499629

Ion Ratio Lower Upper

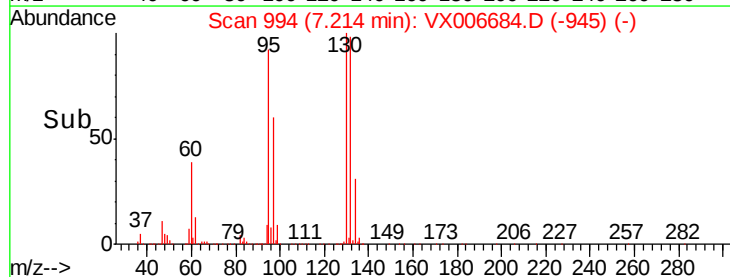
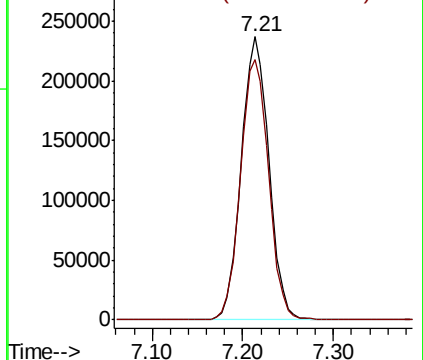
130 100

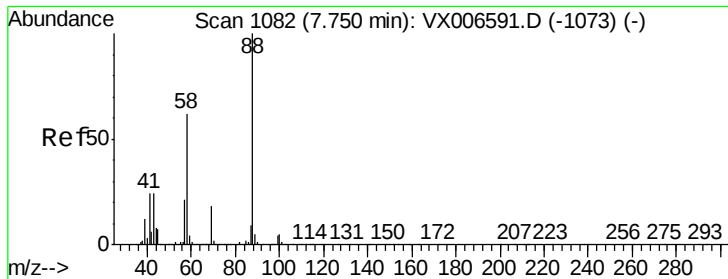
95 91.9 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

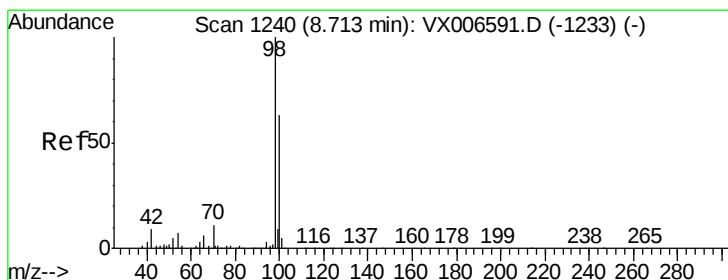
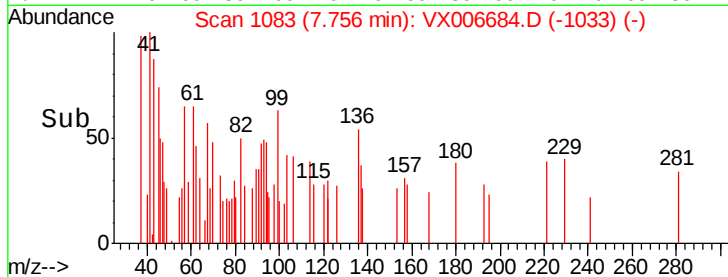
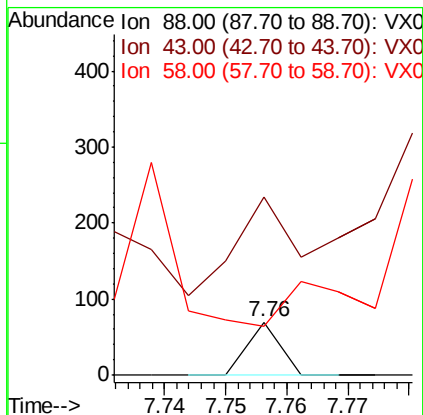
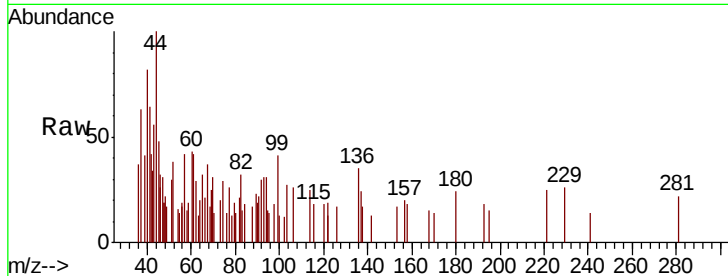




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006684.D
Acq: 20 Dec 2018 18:54

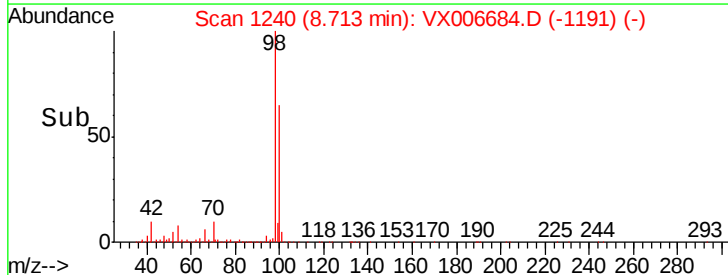
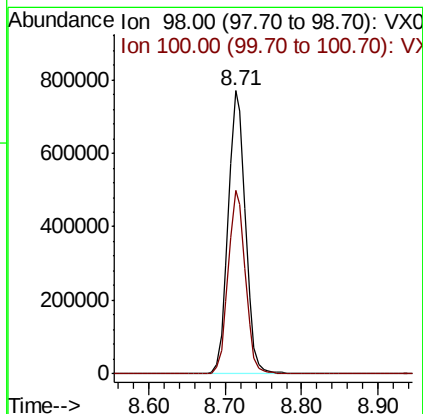
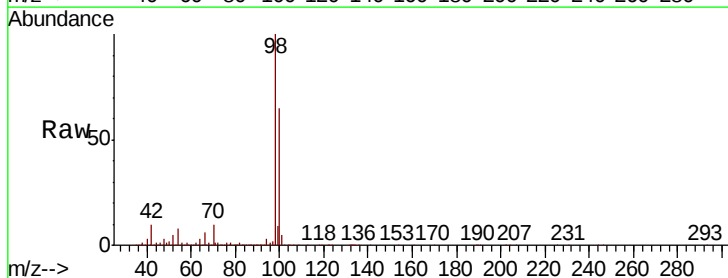
Instrument :
MSVOA_X
ClientSampled :

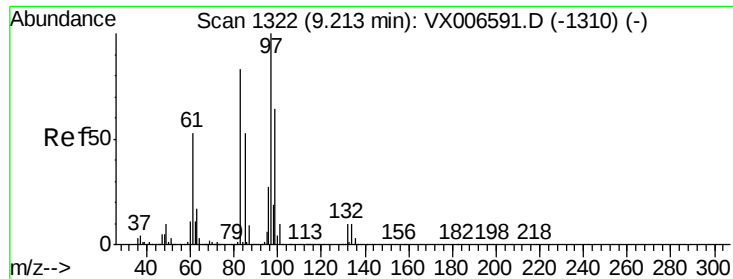
Tot Ion: 88 Resp: 26
Ion Ratio Lower Upper
88 100
43 315.4 22.2 33.4#
58 492.3 51.0 76.4#



#50
Toluene-d8
Concen: 49.519 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006684.D
Acq: 20 Dec 2018 18:54

Tgt Ion: 98 Resp: 1202847
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0

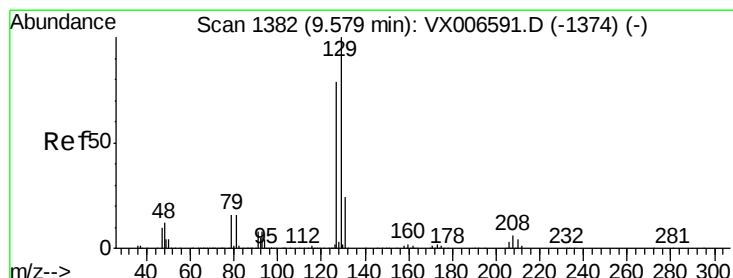
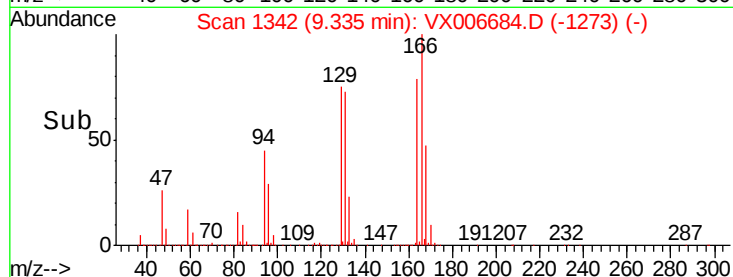
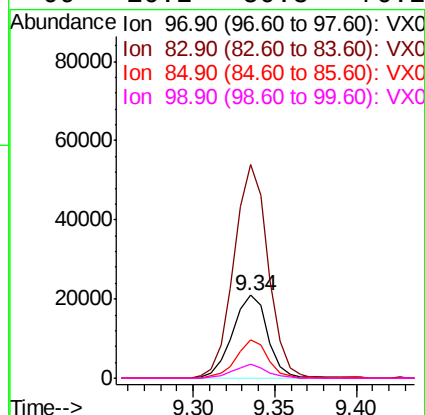
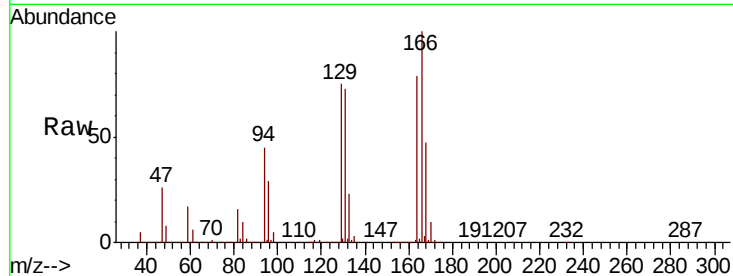




#55
 1,1,2-Trichloroethane
 Concen: 4.612 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. 0.12 min
 Lab File: VX006684.D
 Acq: 20 Dec 2018 18:54

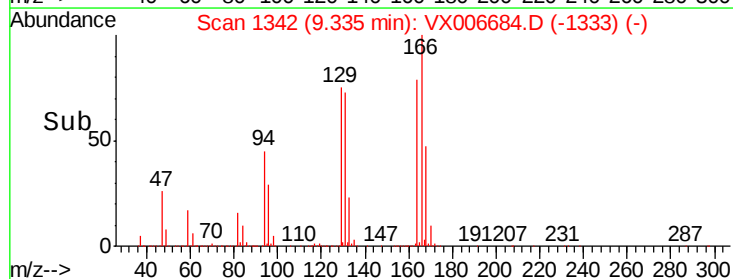
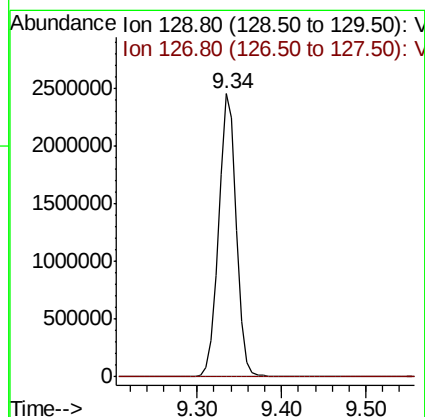
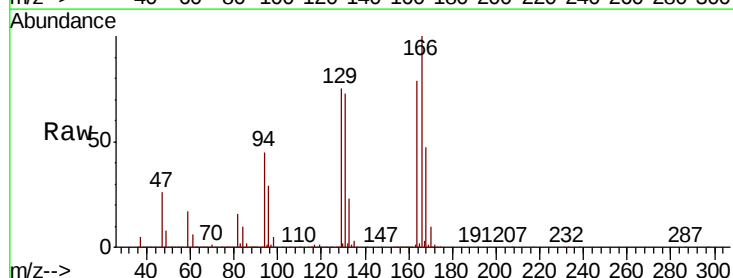
Instrument :
 MSVOA_X
 ClientSampleId :

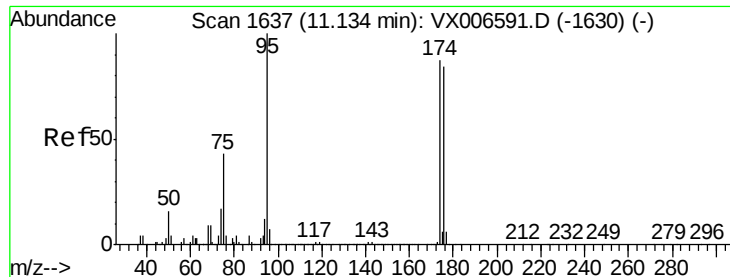
Tot Ion: 97 Resp: 31286
 Ion Ratio Lower Upper
 97 100
 83 258.0 66.6 99.8#
 85 46.8 42.7 64.1
 99 16.2 50.8 76.2#



#60
 Dibromochloromethane
 Concen: 480.838 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX006684.D
 Acq: 20 Dec 2018 18:54

Tgt Ion: 129 Resp: 3560121
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.3 117.8#

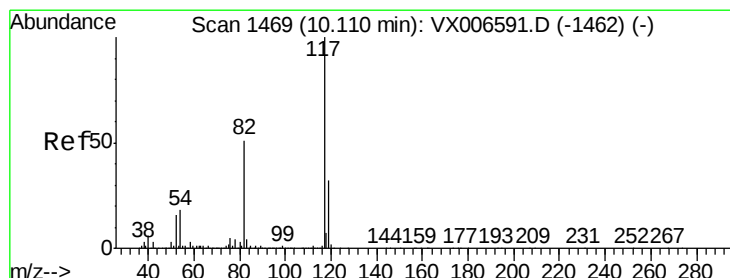
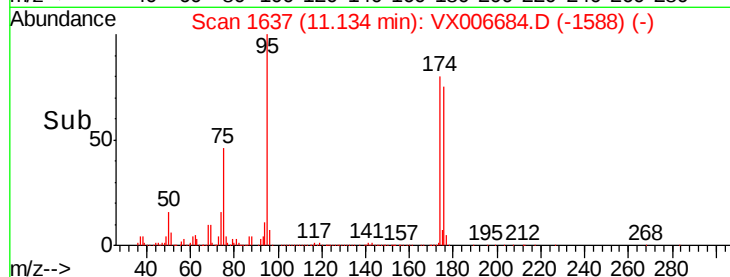
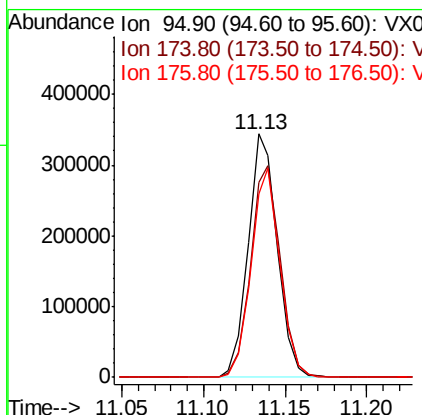
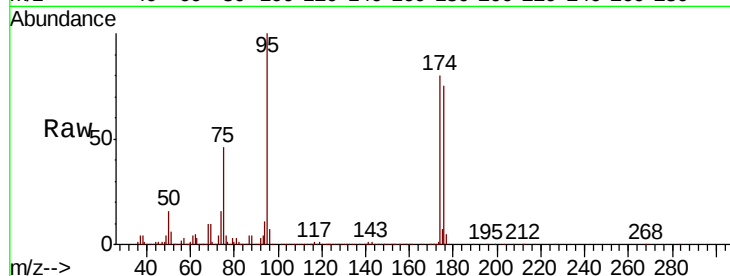




#62
4-Bromofluorobenzene
Concen: 48.045 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006684.D
Acq: 20 Dec 2018 18:54

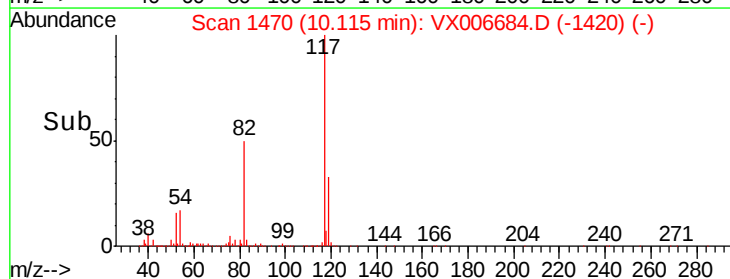
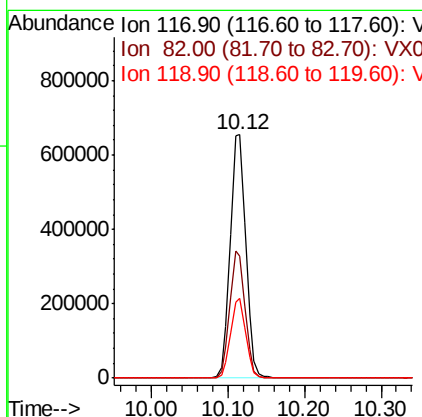
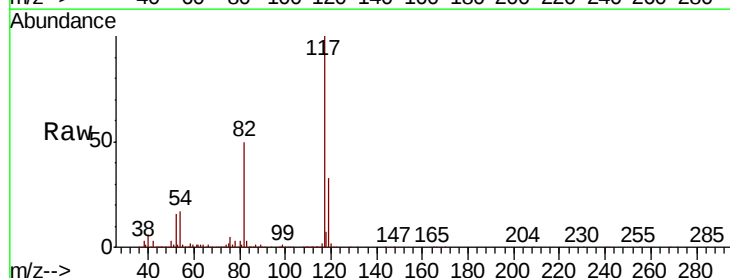
Instrument :
MSVOA_X
ClientSampleId :

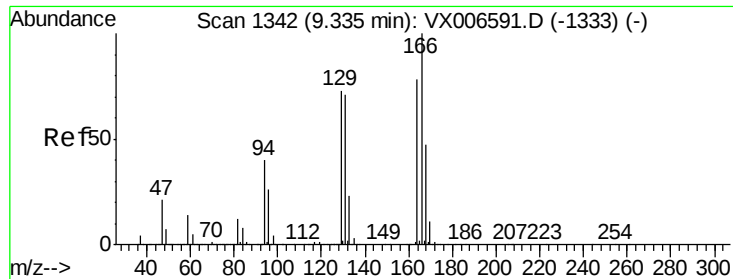
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.0	0.0	182.2
176	85.2	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006684.D
Acq: 20 Dec 2018 18:54

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.0	41.0	61.6
119	32.9	25.4	38.0





#64

Tetrachloroethene

Concen: 514.253 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 3773313

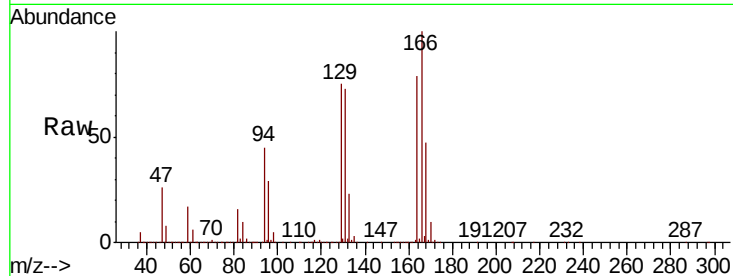
Ion Ratio Lower Upper

164 100

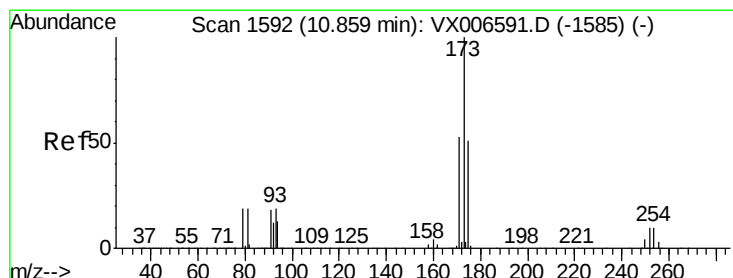
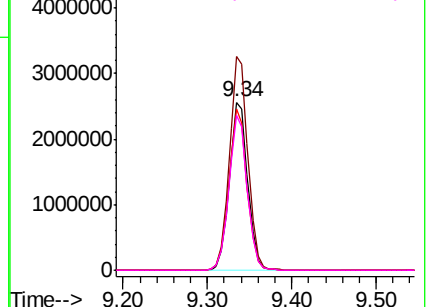
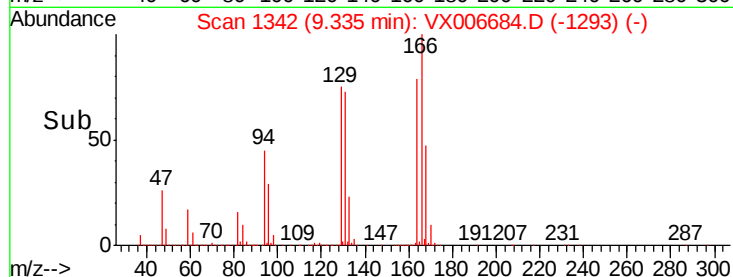
166 127.3 102.5 153.7

129 95.9 75.1 112.7

131 92.6 72.7 109.1



Abundance Ion 163.80 (163.50 to 164.50): V
5000000 Ion 165.80 (165.50 to 166.50): V
4000000 Ion 128.80 (128.50 to 129.50): V
3000000 Ion 130.80 (130.50 to 131.50): V
2000000
1000000
0



#71

Bromoform

Concen: 4.482 ug/l

RT: 11.09 min Scan# 1630

Delta R.T. 0.23 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

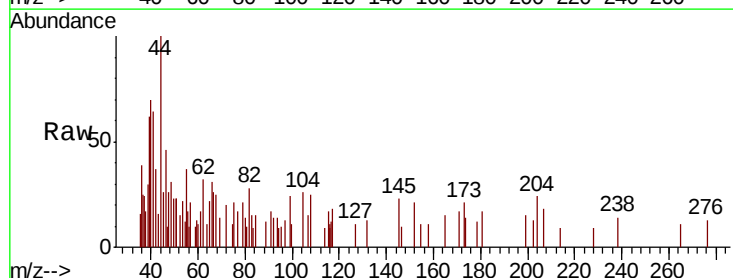
Tgt Ion:173 Resp: 131

Ion Ratio Lower Upper

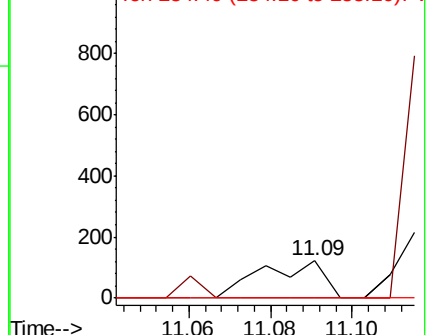
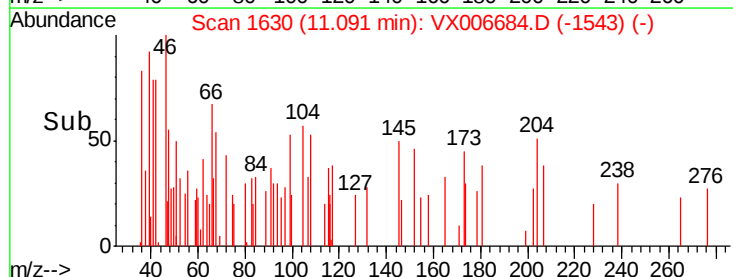
173 100

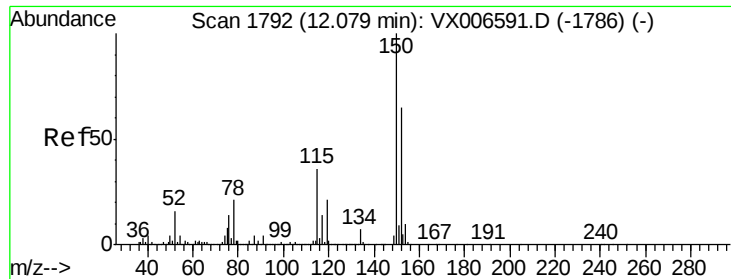
175 0.0 24.7 74.1#

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
1000 Ion 174.70 (174.40 to 175.40): V
800 Ion 254.40 (254.10 to 255.10): V
600
400
200
0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :

MSVOA_X

ClientSampleId :

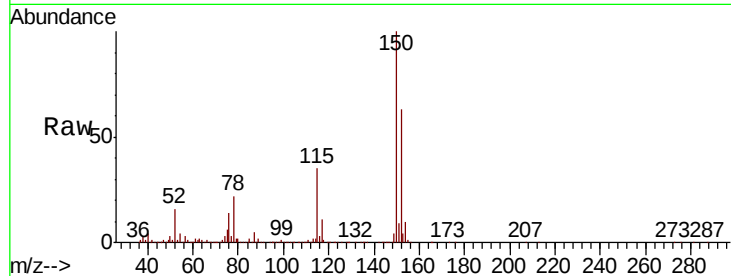
Tot Ion:152 Resp: 444156

Ion Ratio Lower Upper

152 100

115 56.7 39.1 117.2

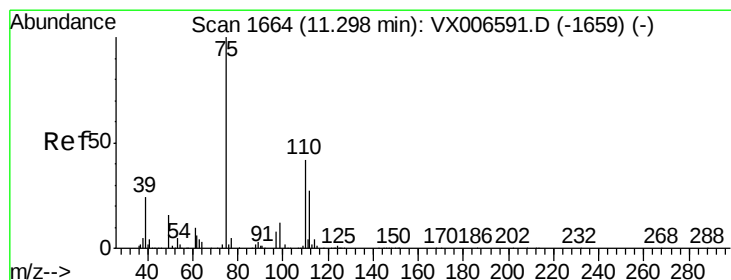
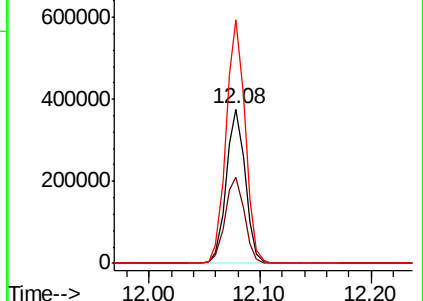
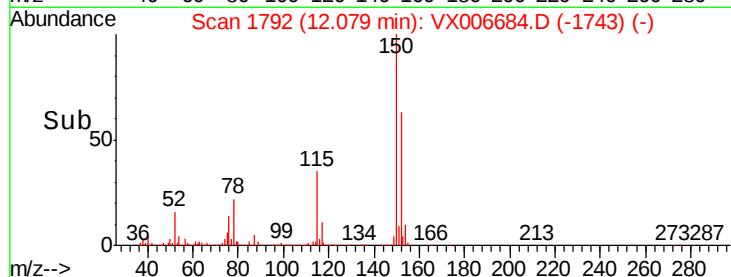
150 158.0 0.0 344.8



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: 24.491 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006684.D

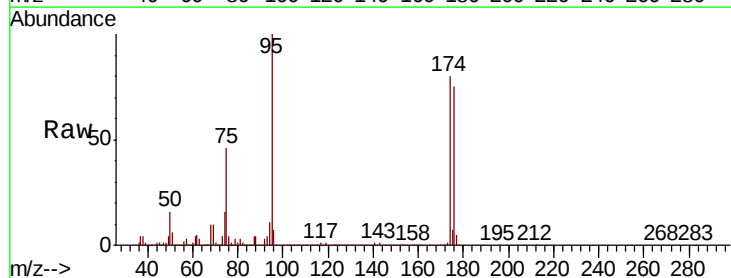
Acq: 20 Dec 2018 18:54

Tgt Ion: 75 Resp: 202158

Ion Ratio Lower Upper

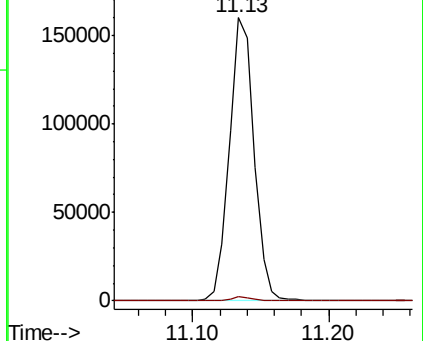
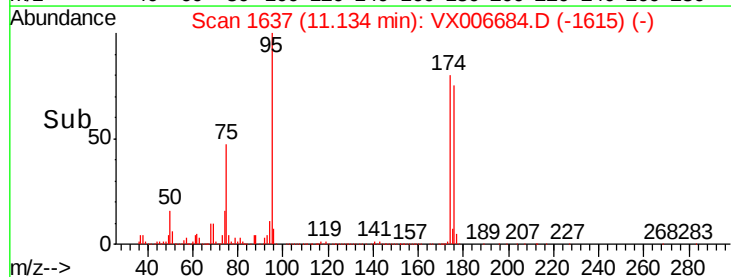
75 100

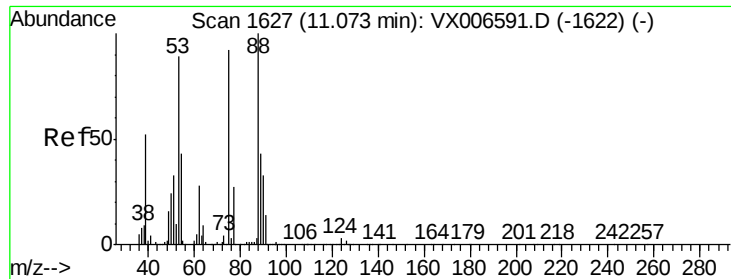
77 1.7 18.5 55.5#



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: 72.457 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006684.D

Acq: 20 Dec 2018 18:54

Instrument :

MSVOA_X

ClientSampleId :

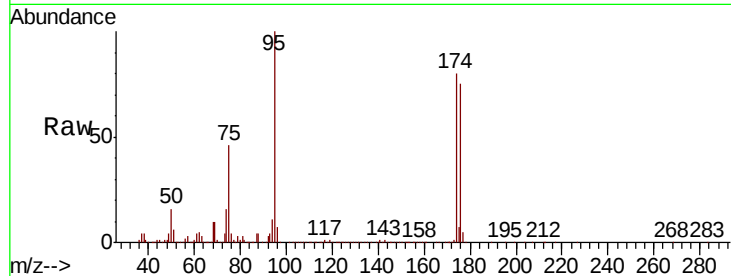
Tot Ion: 75 Resp: 202158

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

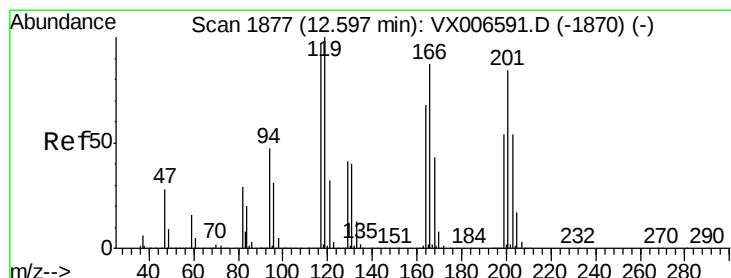
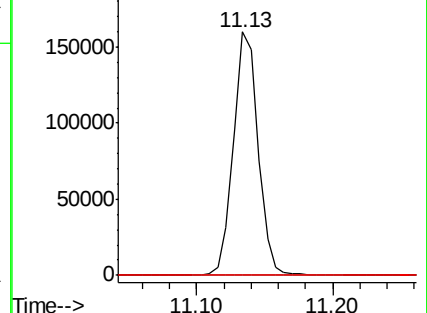
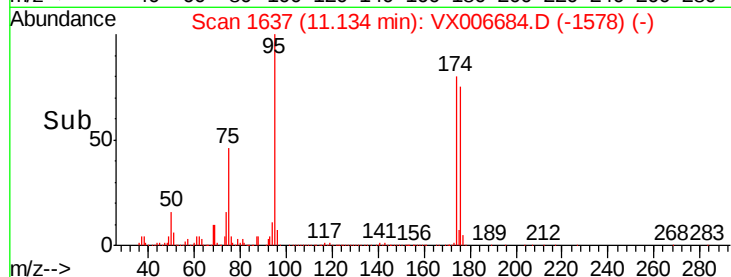
89 0.2 38.0 57.0#



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



#90

Hexachloroethane

Concen: 3.308 ug/l

RT: 12.58 min Scan# 1874

Delta R.T. -0.02 min

Lab File: VX006684.D

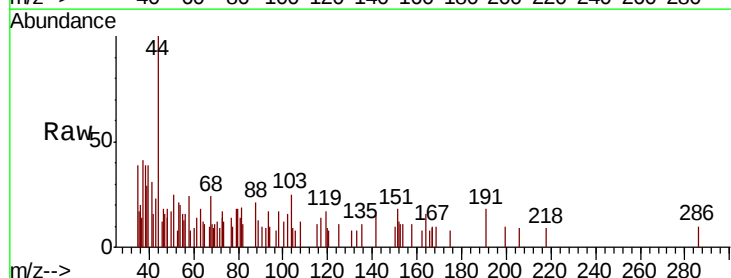
Acq: 20 Dec 2018 18:54

Tgt Ion: 117 Resp: 67

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

