

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012619\
 Data File : VX007238.D
 Acq On : 25 Jan 2019 19:21
 Operator : JC/SP
 Sample : PB116609ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 28 00:17:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	532098	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	820632	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	800654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	384985	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	284173	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
35) Dibromofluoromethane	5.50	113	256489	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	8.71	98	1006188	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	
62) 4-Bromofluorobenzene	11.13	95	351890	52.47	ug/l	0.00
Spiked Amount			Recovery	=	104.94%	

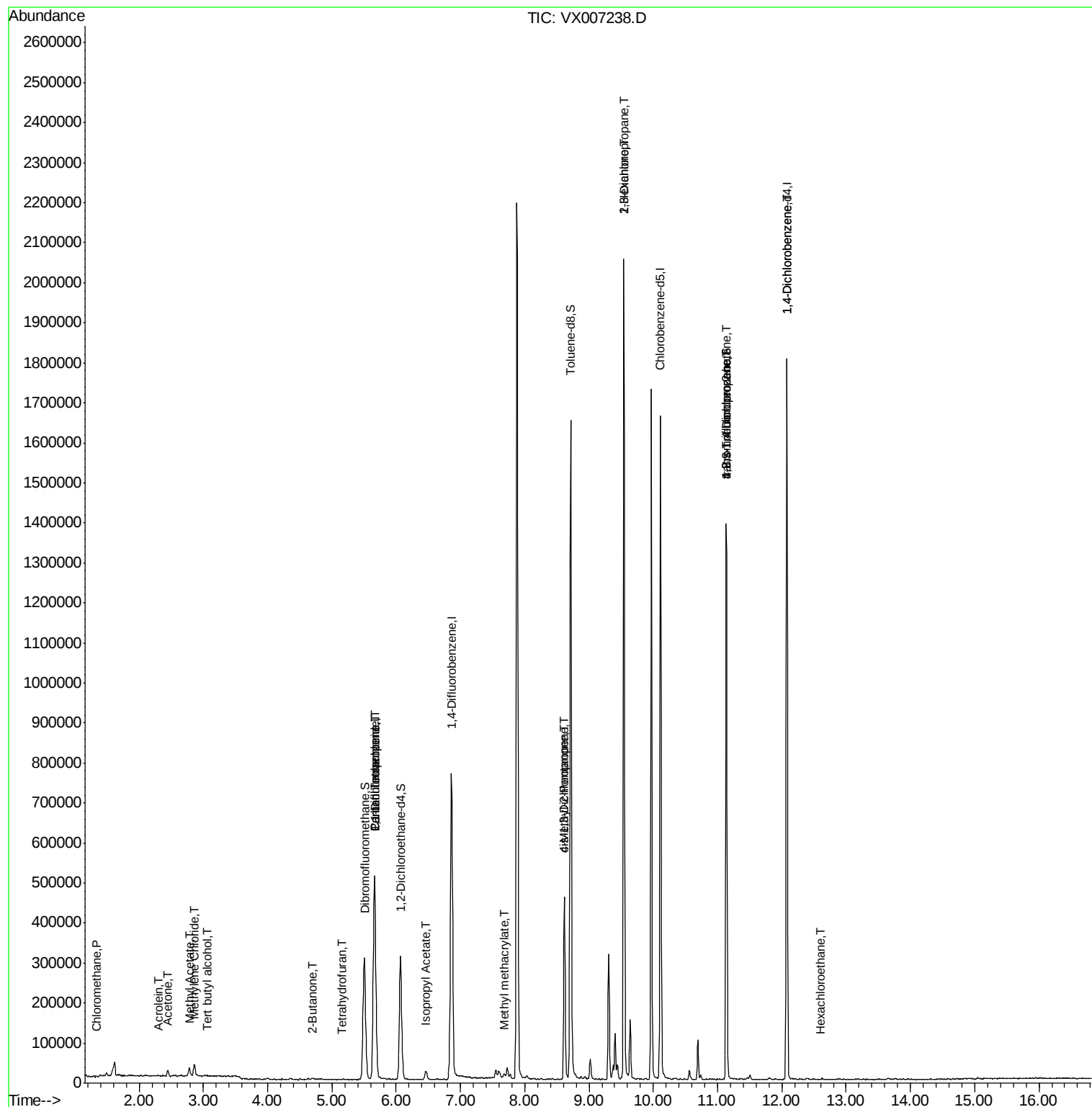
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1288	0.253	ug/l	90
11) Tert butyl alcohol	3.07	59	1230	0.938	ug/l #	51
13) Acrolein	2.30	56	312	3.629	ug/l #	67
16) Acetone	2.45	43	14884	5.414	ug/l #	87
18) Methyl Acetate	2.78	43	25636	3.220	ug/l	94
20) Methylene Chloride	2.86	84	13632	2.065	ug/l	96
25) 2-Butanone	4.70	43	5661	1.439	ug/l	99
29) Tetrahydrofuran	5.16	42	1733	0.678	ug/l #	72
36) 1,1-Dichloropropene	5.67	75	33373	4.678	ug/l #	48
38) Carbon Tetrachloride	5.67	117	47495	6.616	ug/l #	14
43) Isopropyl Acetate	6.46	43	27038	2.241	ug/l	98
48) Methyl methacrylate	7.68	41	13986	2.257	ug/l #	12
49) 1,4-Dioxane	7.77	88	83	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	146449	18.887	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	72963	9.100	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	16999	1.853	ug/l #	44
59) 2-Hexanone	9.54	43	225032	38.083	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	172719	22.139	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	172719	65.541	ug/l #	10
88) 1,4-Dichlorobenzene	12.08	146	962	0.220	ug/l #	1
90) Hexachloroethane	12.59	117	19	2.913	ug/l	79

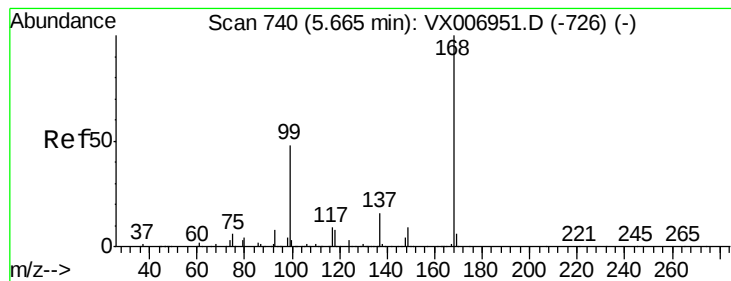
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
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: VX007238.D

Acq: 25 Jan 2019 19:21

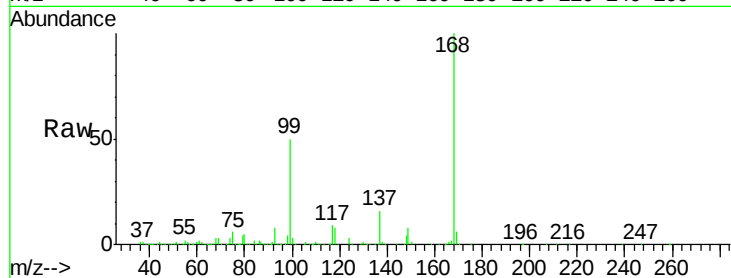
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 532098

Ion Ratio Lower Upper

168 100

99 50.1 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

200000

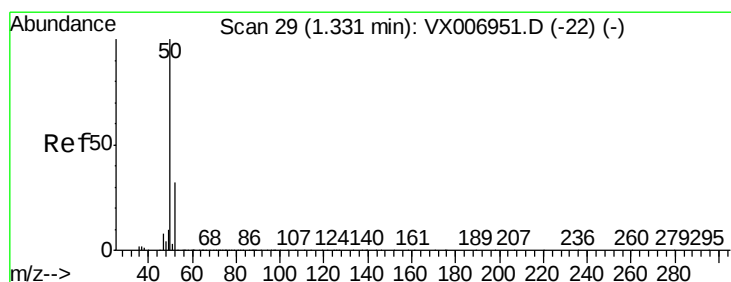
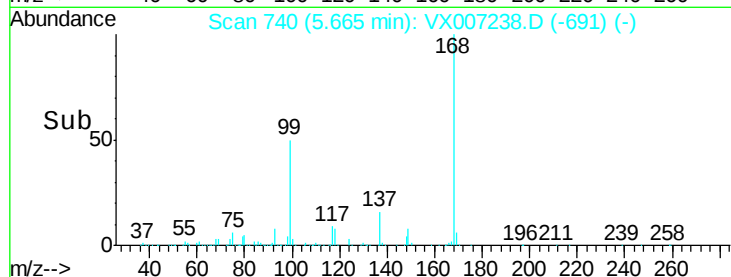
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.253 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007238.D

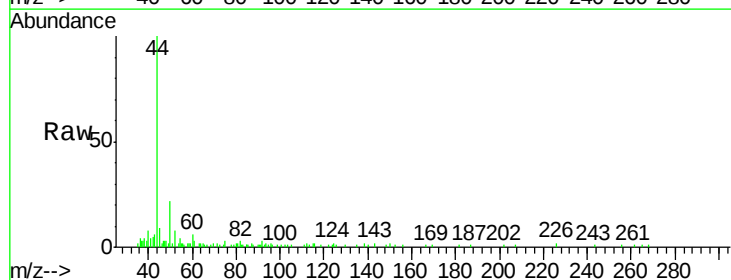
Acq: 25 Jan 2019 19:21

Tgt Ion: 50 Resp: 1288

Ion Ratio Lower Upper

50 100

52 26.2 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

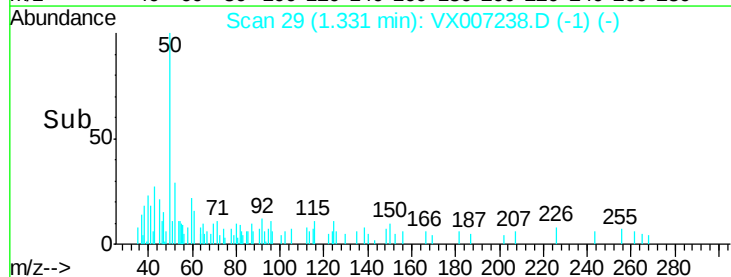
1.33

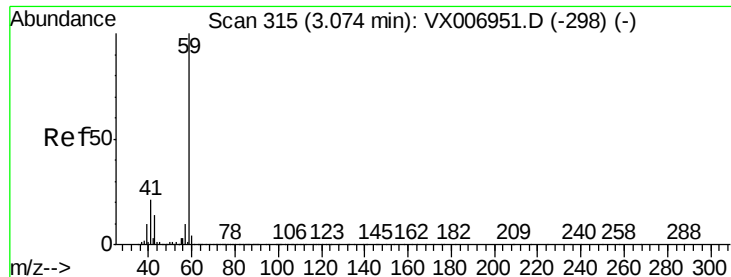
1000

500

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Time-->

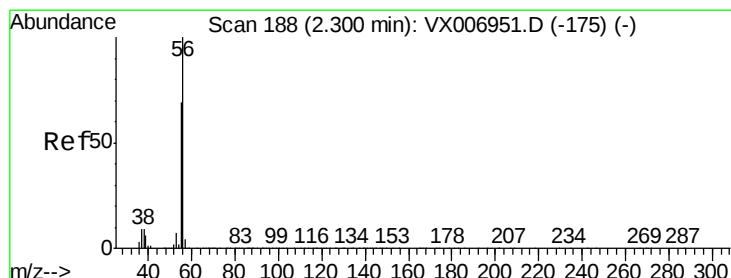
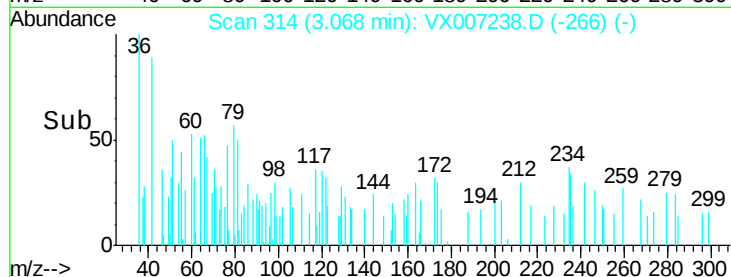
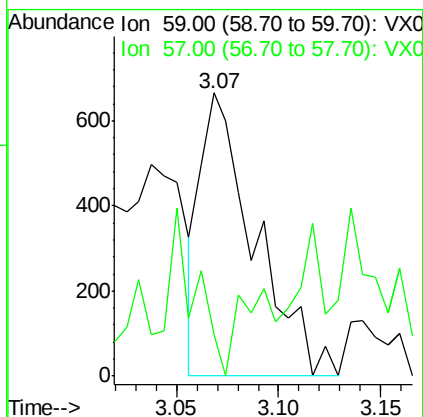
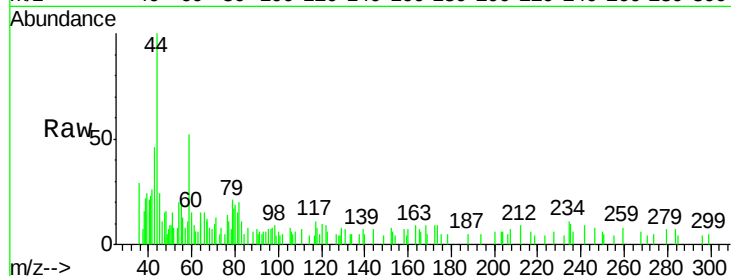




#11
Tert butvl alcohol
Concen: 0.938 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX007238.D
Acq: 25 Jan 2019 19:21

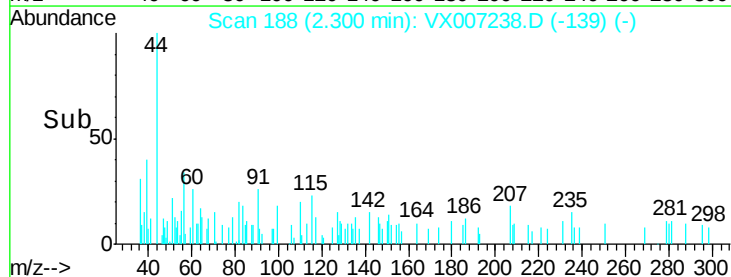
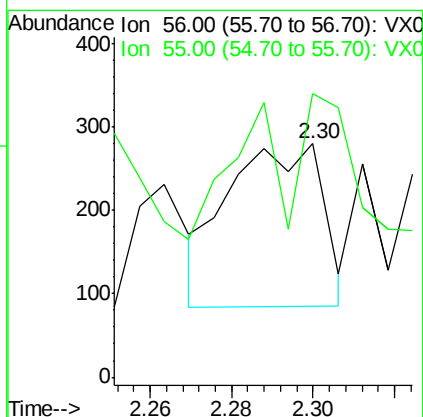
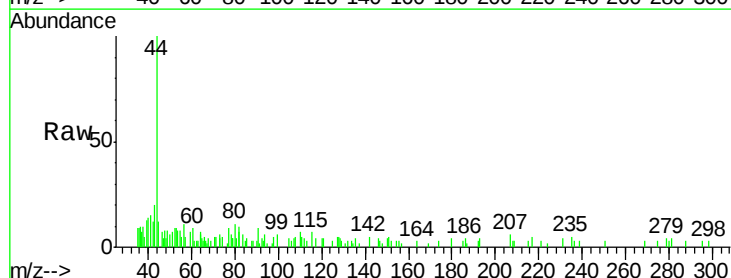
Instrument :
MSVOA_X
ClientSampled :

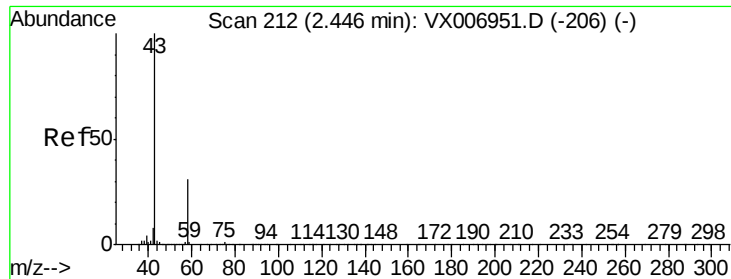
Tot Ion: 59 Resp: 1230
Ion Ratio Lower Upper
59 100
57 29.2 8.5 12.7#



#13
Acrolein
Concen: 3.629 ug/l
RT: 2.30 min Scan# 188
Delta R.T. -0.00 min
Lab File: VX007238.D
Acq: 25 Jan 2019 19:21

Tgt Ion: 56 Resp: 312
Ion Ratio Lower Upper
56 100
55 44.9 58.2 87.4#

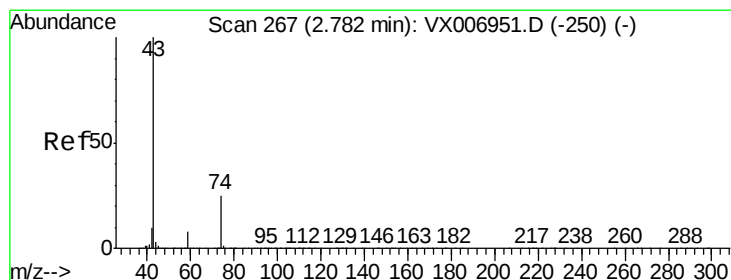
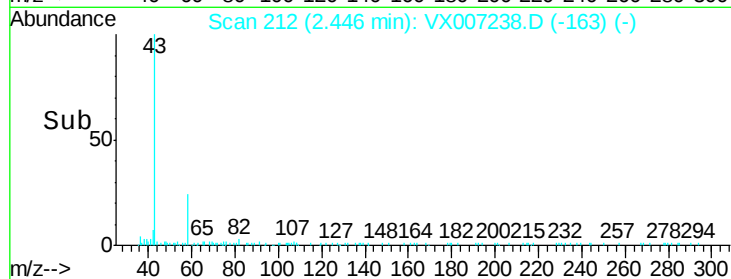
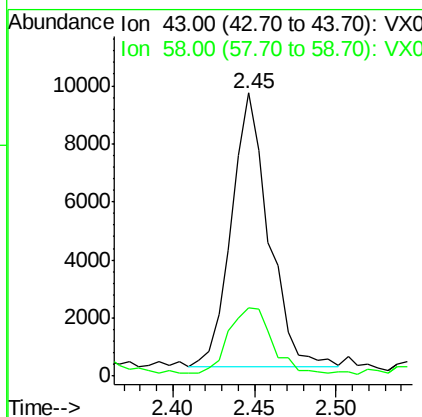
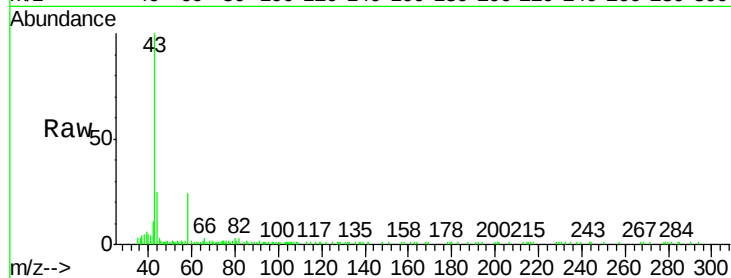




#16
Acetone
Concen: 5.414 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007238.D
Acq: 25 Jan 2019 19:21

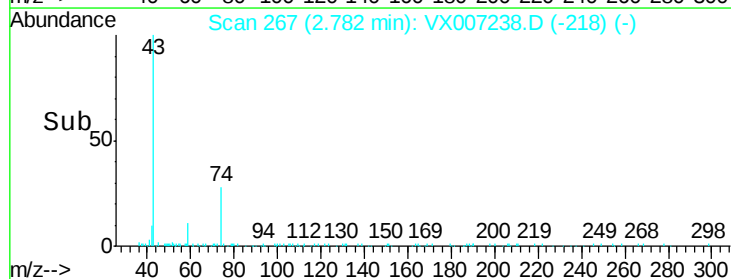
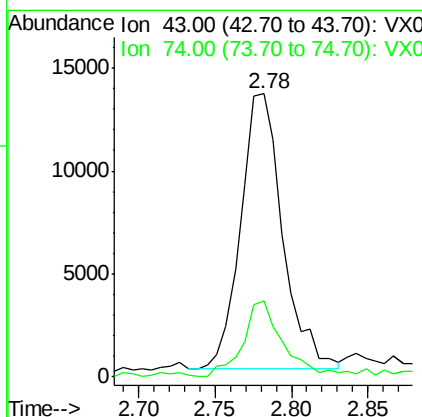
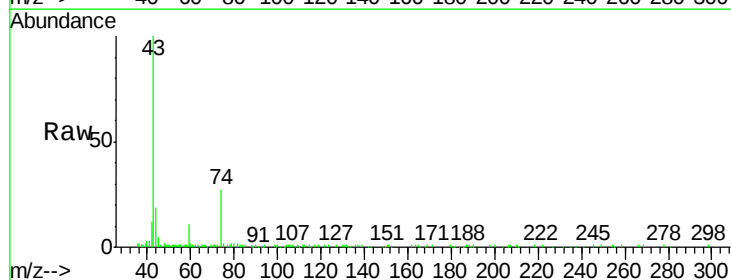
Instrument :
MSVOA_X
ClientSampleId :

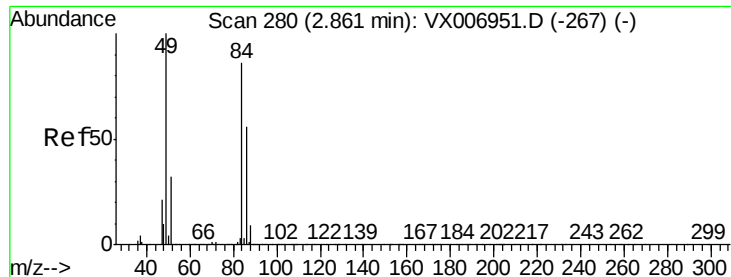
Tot Ion: 43 Resp: 14884
Ion Ratio Lower Upper
43 100
58 23.9 25.0 37.6#



#18
Methyl Acetate
Concen: 3.220 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007238.D
Acq: 25 Jan 2019 19:21

Tgt Ion: 43 Resp: 25636
Ion Ratio Lower Upper
43 100
74 26.1 18.6 28.0

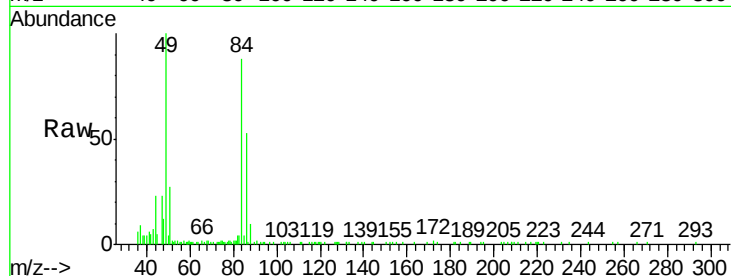




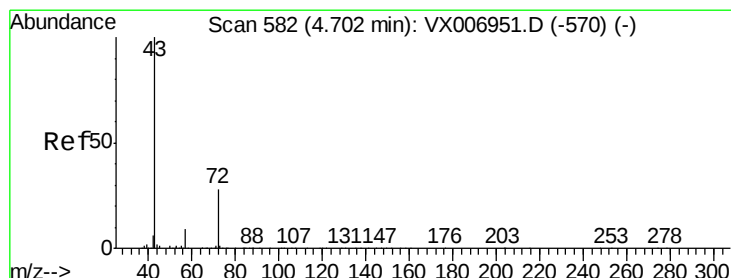
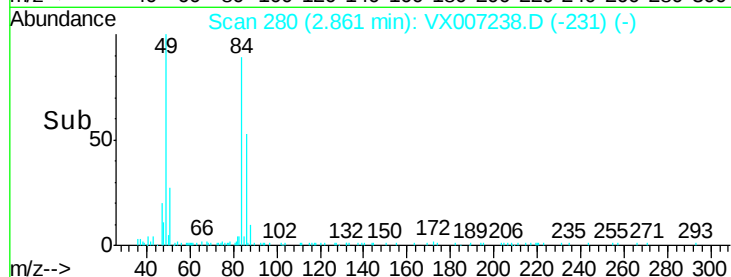
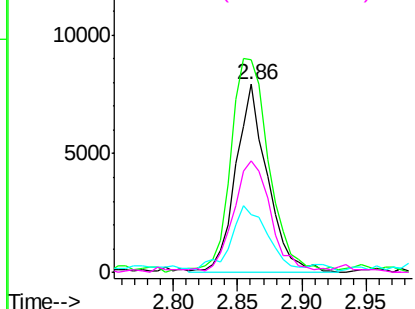
#20
Methvlene Chloride
Concen: 2.065 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007238.D
Acq: 25 Jan 2019 19:21

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	84	Resp:	13632
Ion	Ratio	Lower	Upper
84	100		
49	112.5	91.8	137.6
51	30.2	28.5	42.7
86	58.3	50.2	75.2

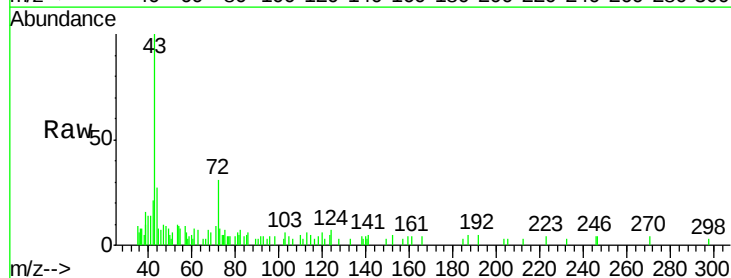


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

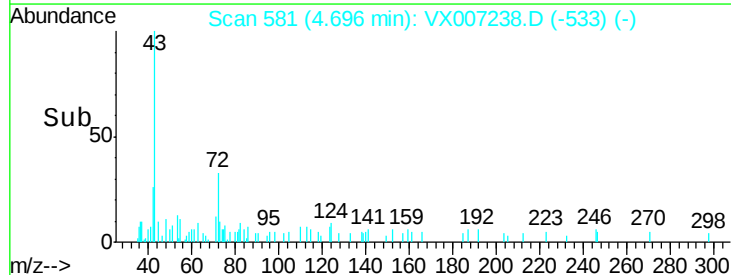
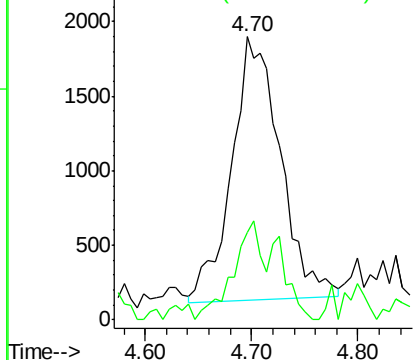


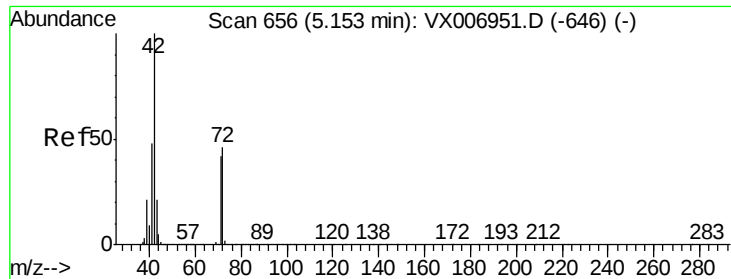
#25
2-Butanone
Concen: 1.439 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX007238.D
Acq: 25 Jan 2019 19:21

Tgt Ion:	43	Resp:	5661
Ion	Ratio	Lower	Upper
43	100		
72	27.3	22.4	33.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

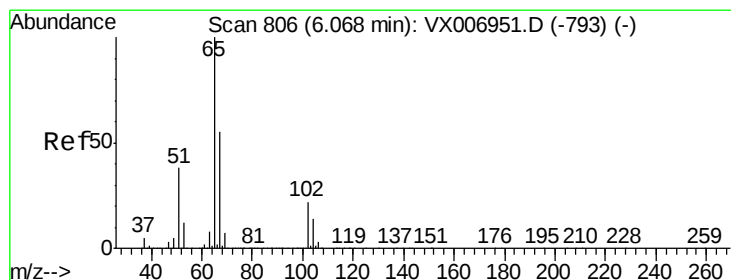
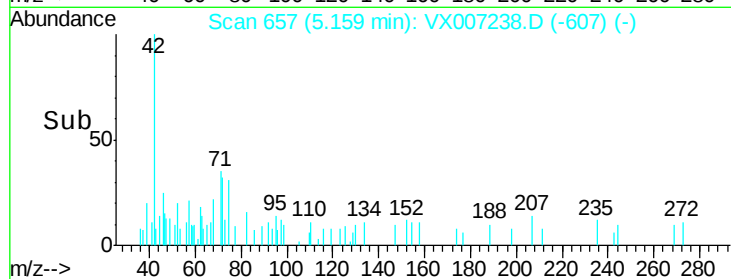
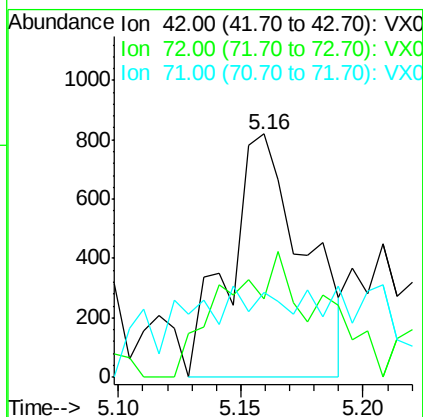
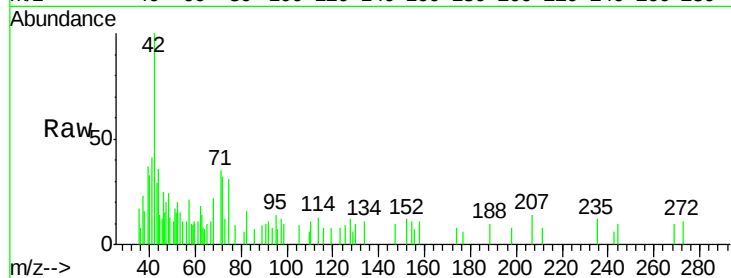




#29
Tetrahydrofuran
Concen: 0.678 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX007238.D
Acq: 25 Jan 2019 19:21

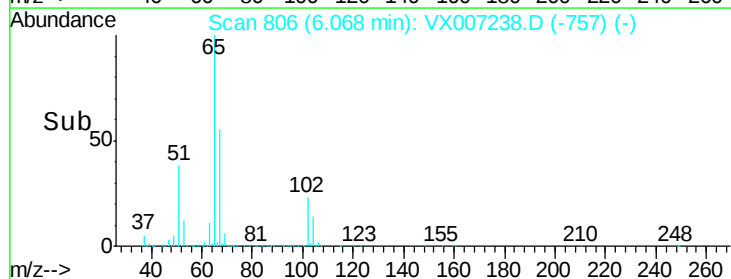
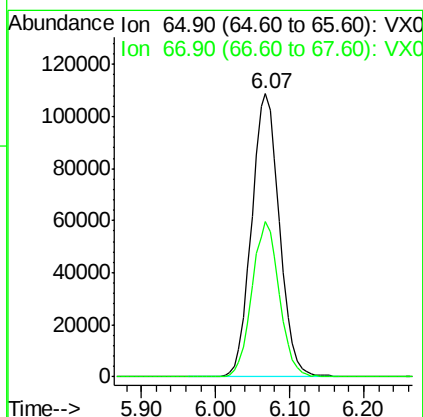
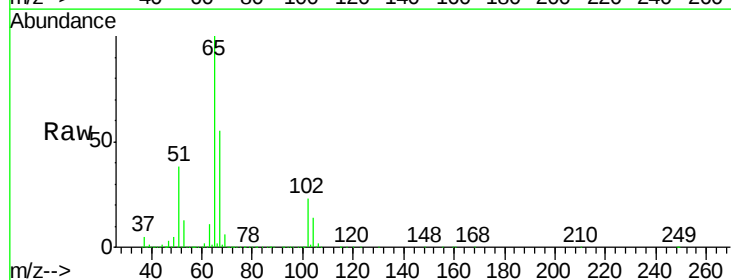
Instrument :
MSVOA_X
ClientSampleId :

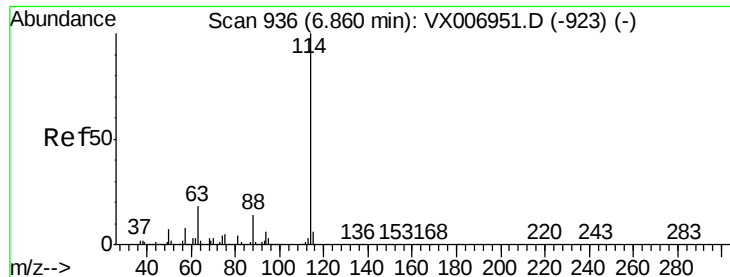
Tot Ion: 42 Resp: 1733
Ion Ratio Lower Upper
42 100
72 49.7 38.9 58.3
71 8.3 36.2 54.4#



#33
1,2-Dichloroethane-d4
Concen: 51.102 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007238.D
Acq: 25 Jan 2019 19:21

Tgt Ion: 65 Resp: 284173
Ion Ratio Lower Upper
65 100
67 54.2 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: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

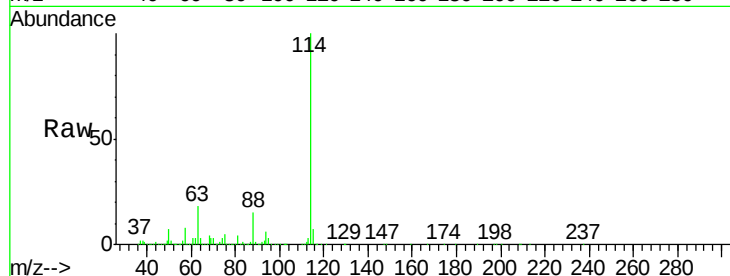
Tot Ion:114 Resp: 820632

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

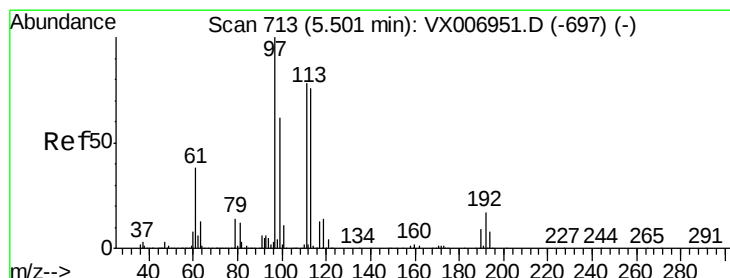
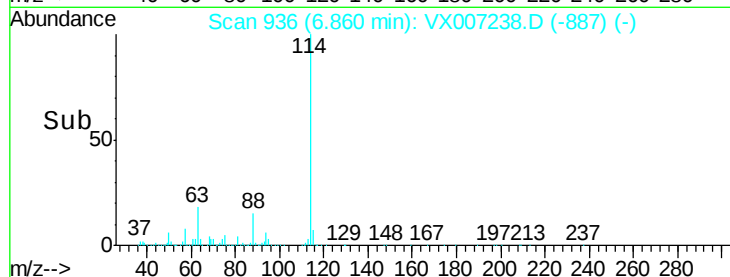
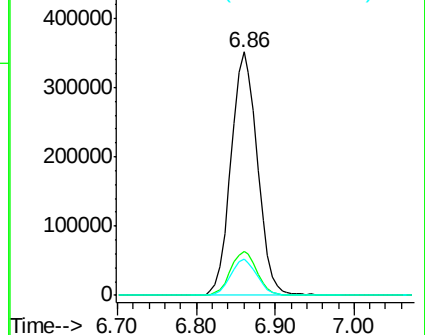
88 14.8 0.0 28.8



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: 48.806 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

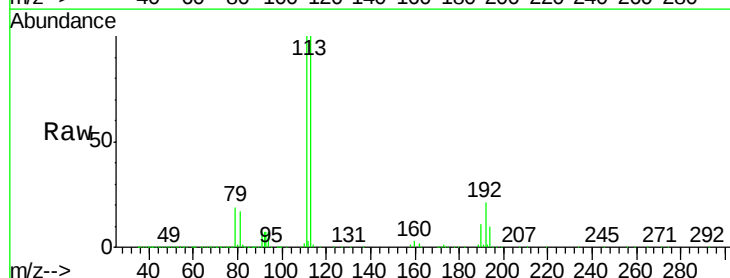
Tgt Ion:113 Resp: 256489

Ion Ratio Lower Upper

113 100

111 102.3 81.6 122.4

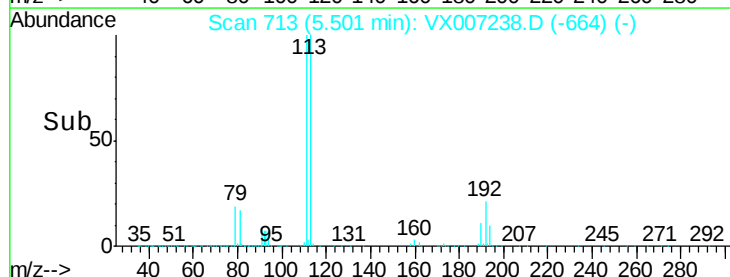
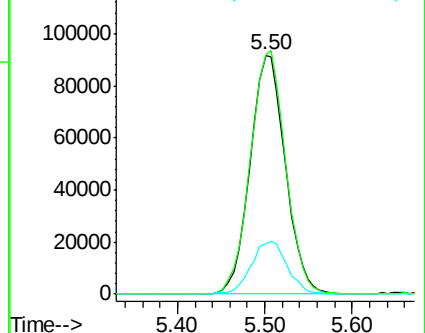
192 22.7 16.7 25.1

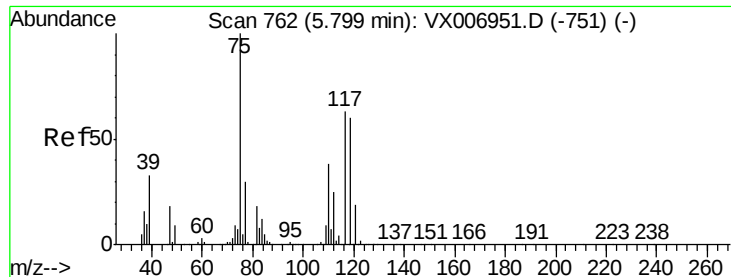


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.678 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

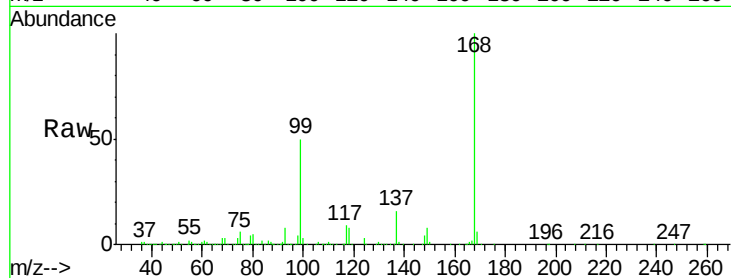
Tot Ion: 75 Resp: 33373

Ion Ratio Lower Upper

75 100

110 10.1 20.2 60.5#

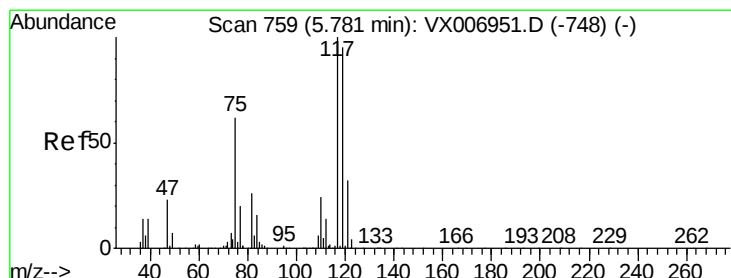
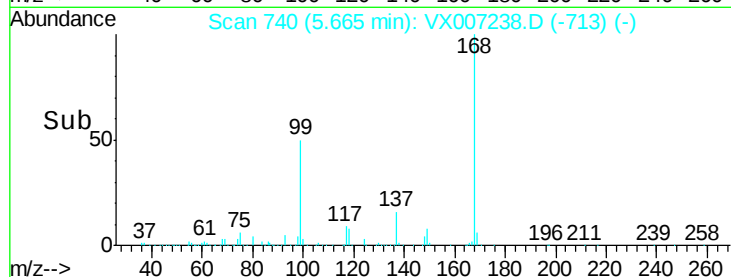
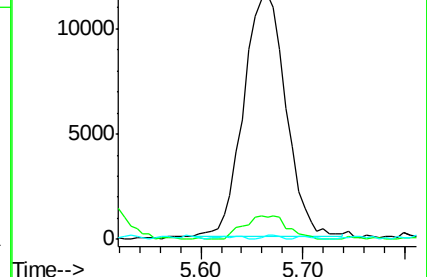
77 0.7 24.8 37.2#



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: 6.616 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

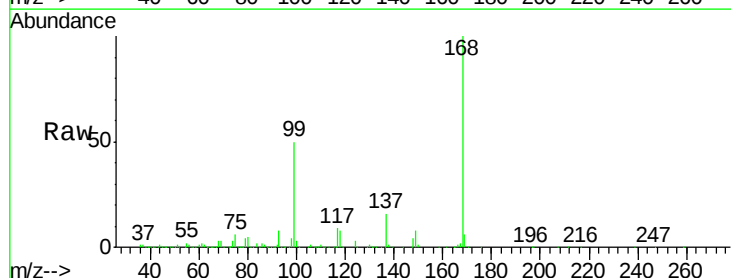
Tgt Ion: 117 Resp: 47495

Ion Ratio Lower Upper

117 100

119 4.3 79.4 119.2#

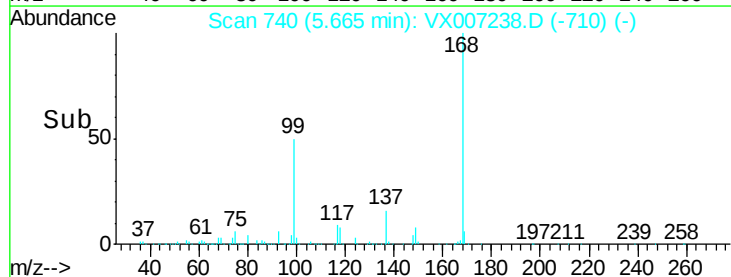
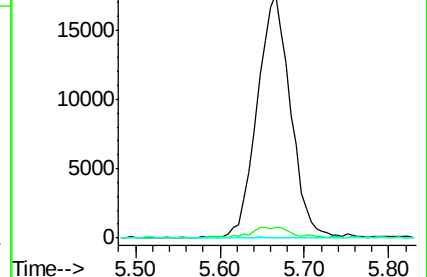
121 0.0 24.0 36.0#

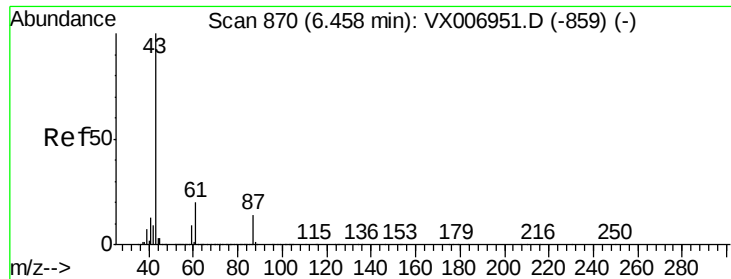


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.241 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

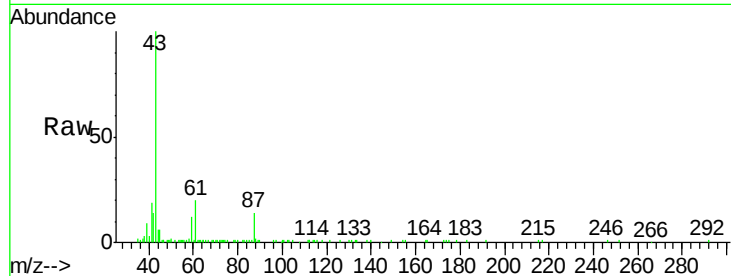
Tot Ion: 43 Resp: 27038

Ion Ratio Lower Upper

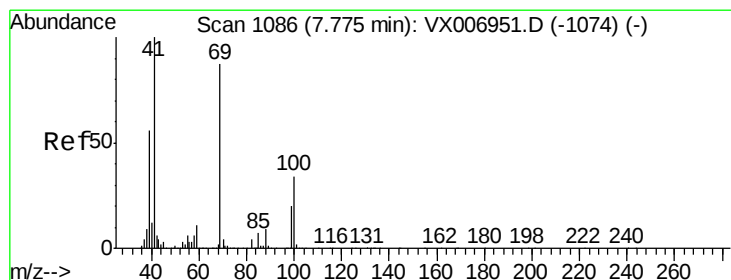
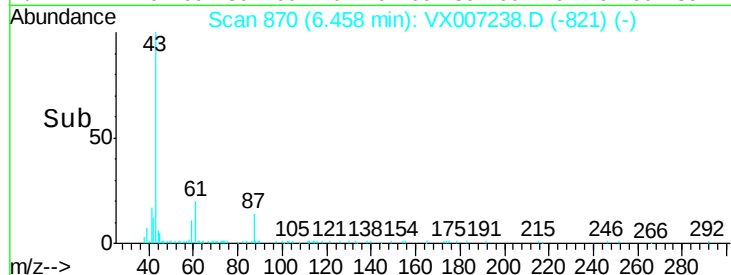
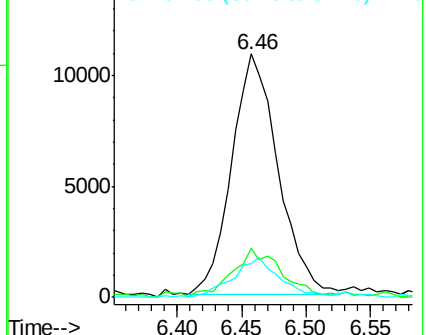
43 100

61 21.4 16.8 25.2

87 16.8 12.4 18.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.257 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

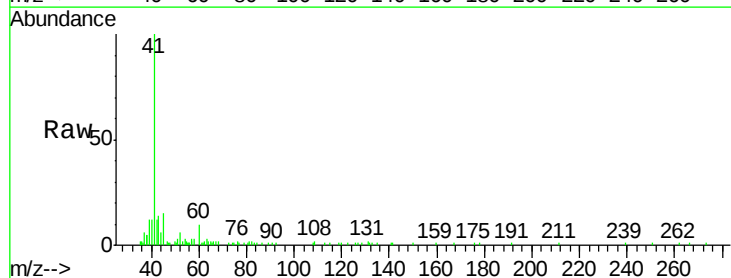
Tgt Ion: 41 Resp: 13986

Ion Ratio Lower Upper

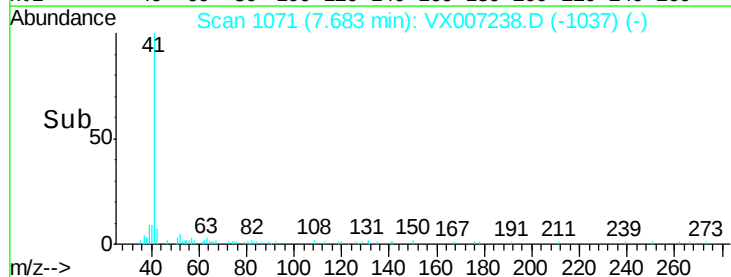
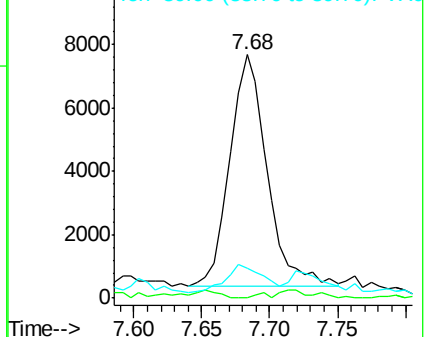
41 100

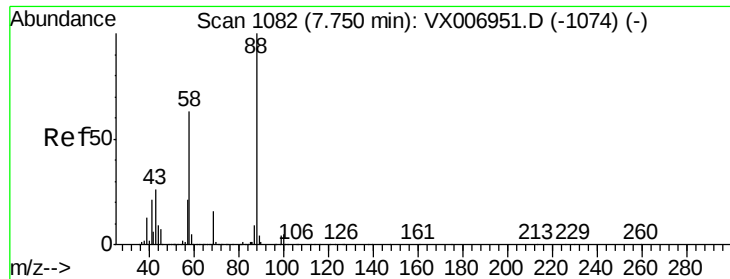
69 0.7 72.4 108.6#

39 0.0 45.8 68.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

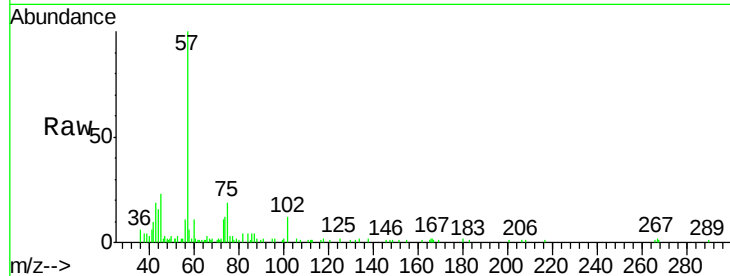
Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 83

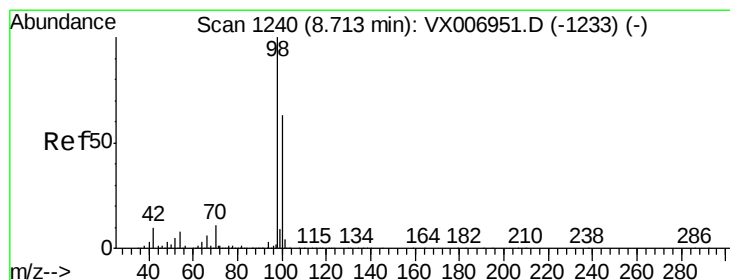
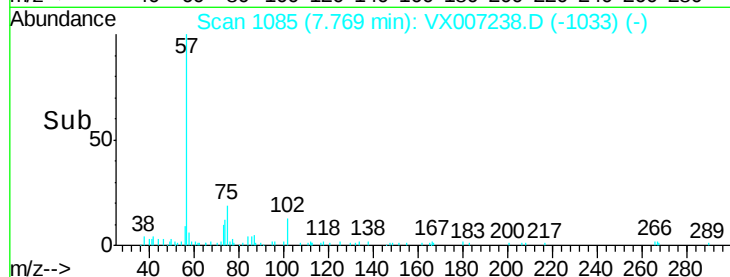
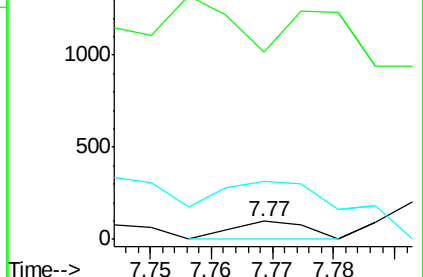
Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	548.2	51.0	76.4#



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: 52.308 ug/l

RT: 8.71 min Scan# 1240

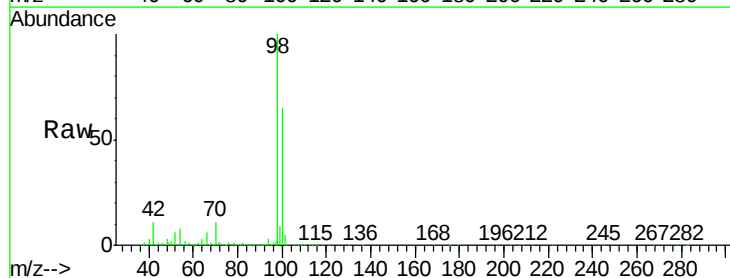
Delta R.T. -0.00 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

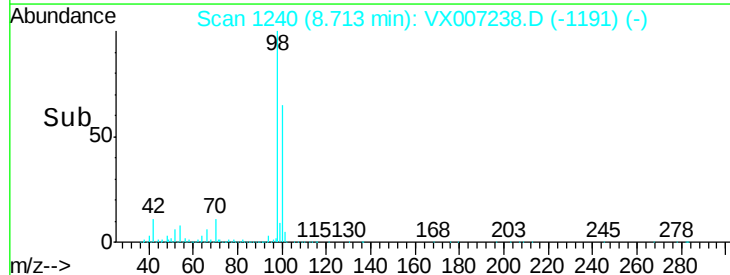
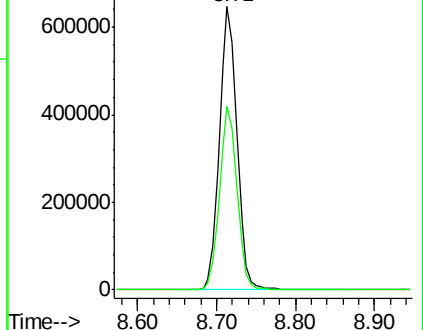
Tgt Ion: 98 Resp: 1006188

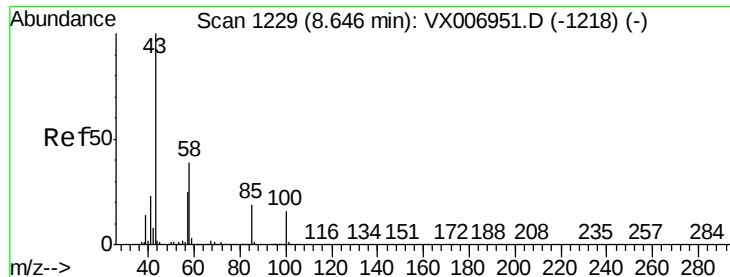
Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 18.887 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :

MSVOA_X

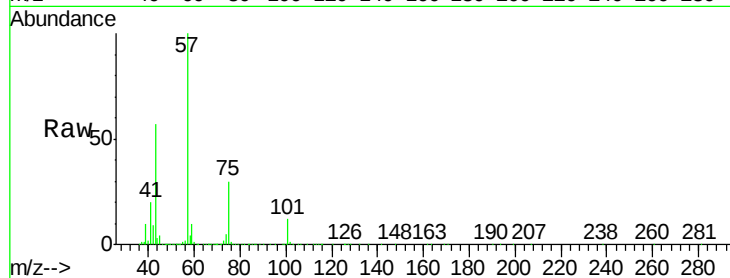
ClientSampleId :

Tot Ion: 43 Resp: 146449

Ion Ratio Lower Upper

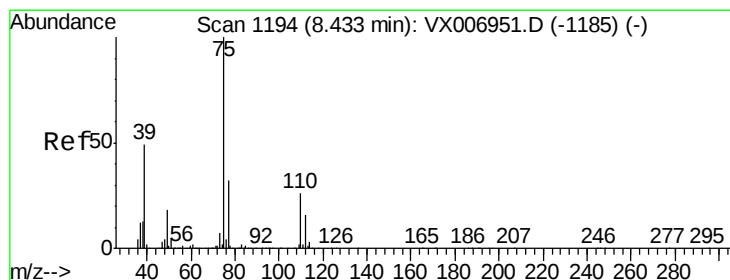
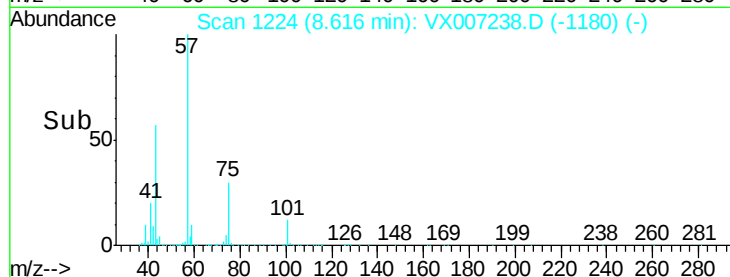
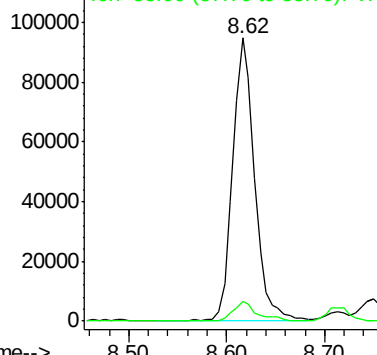
43 100

58 7.6 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 9.100 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

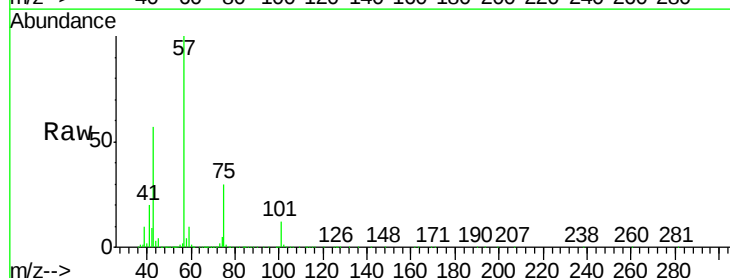
Tgt Ion: 75 Resp: 72963

Ion Ratio Lower Upper

75 100

77 0.3 26.2 39.2#

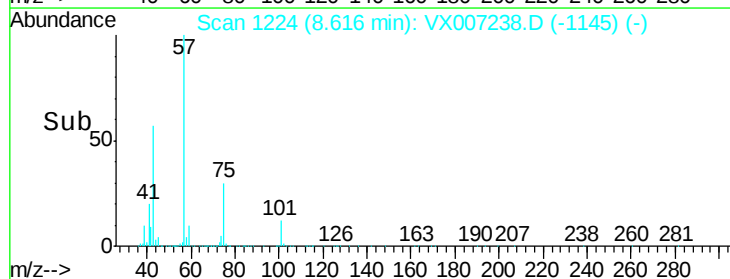
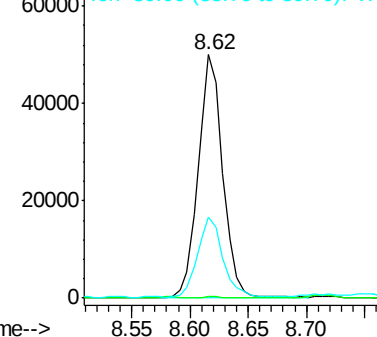
39 33.0 36.7 55.1#

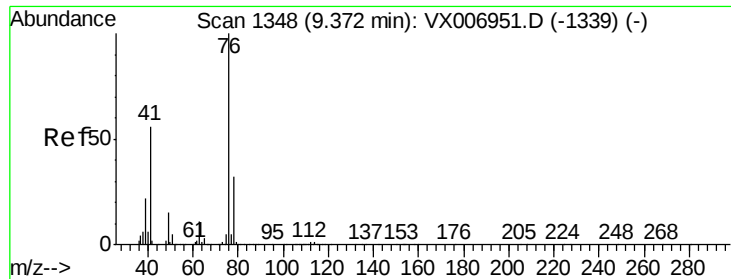


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.853 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :

MSVOA_X

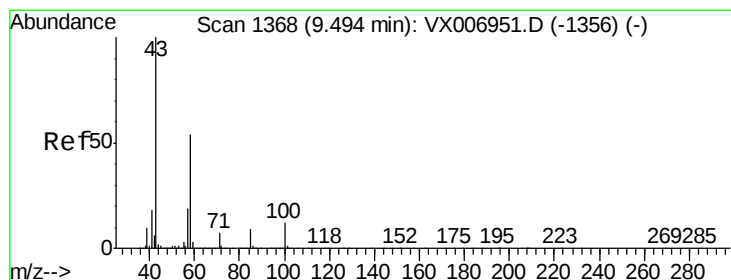
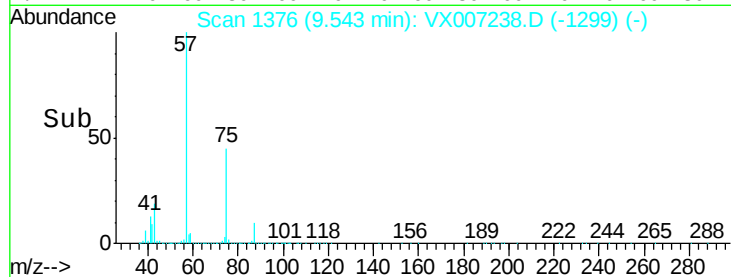
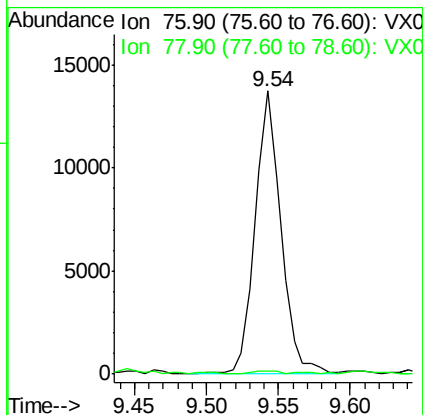
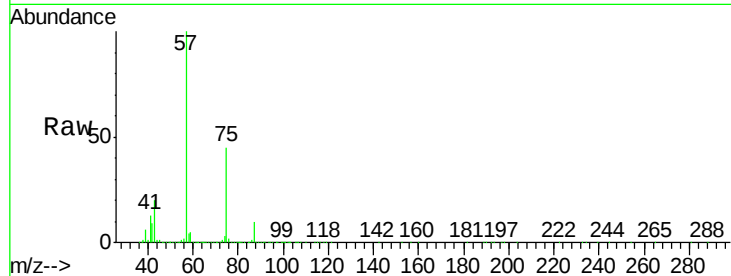
ClientSampleId :

Tot Ion: 76 Resp: 16999

Ion Ratio Lower Upper

76 100

78 1.1 26.0 39.0#



#59

2-Hexanone

Concen: 38.083 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007238.D

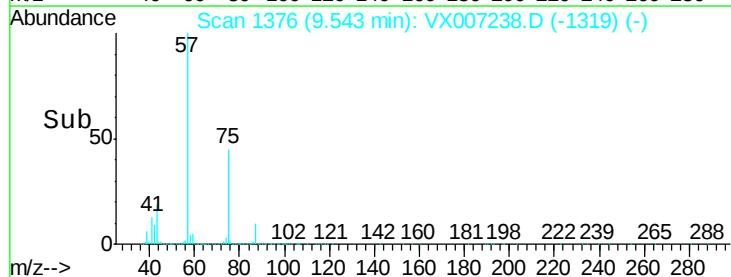
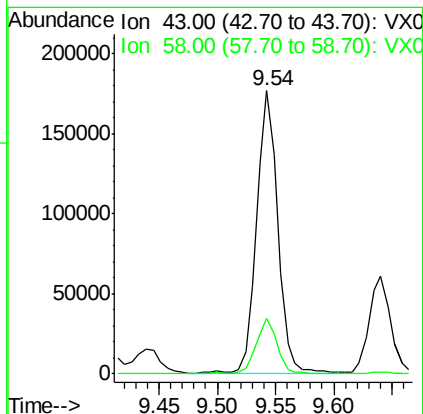
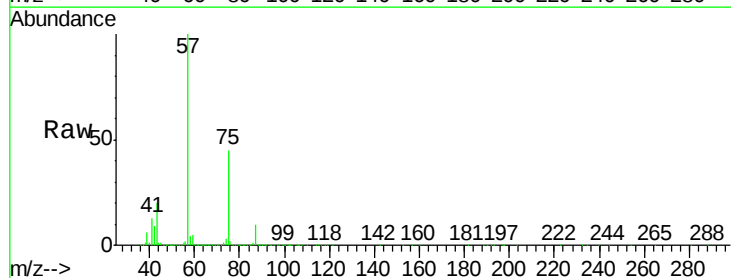
Acq: 25 Jan 2019 19:21

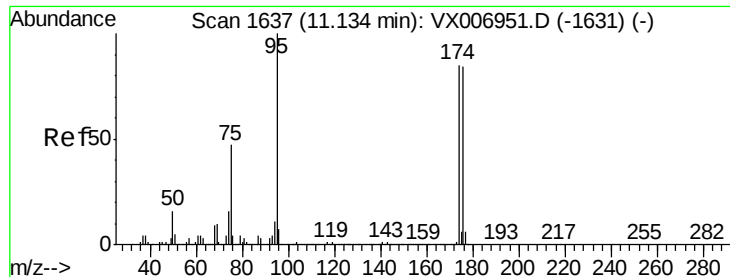
Tgt Ion: 43 Resp: 225032

Ion Ratio Lower Upper

43 100

58 19.2 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 52.473 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

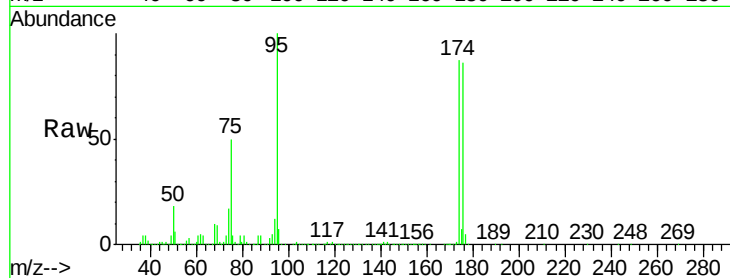
Tot Ion: 95 Resp: 351890

Ion Ratio Lower Upper

95 100

174 94.8 0.0 182.2

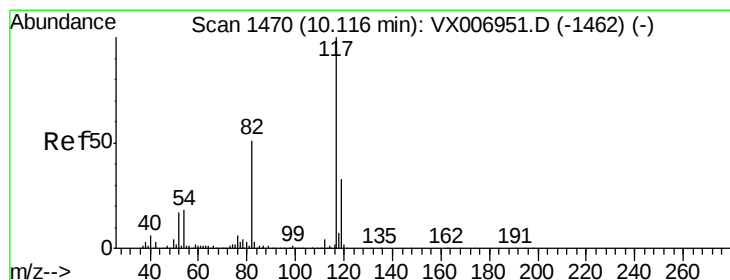
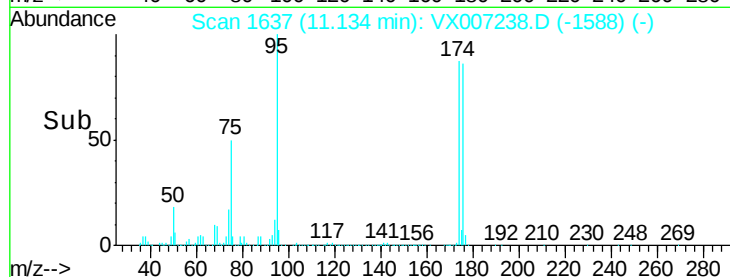
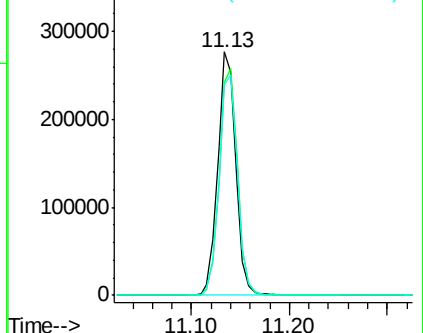
176 92.6 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006951.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006951.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006951.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

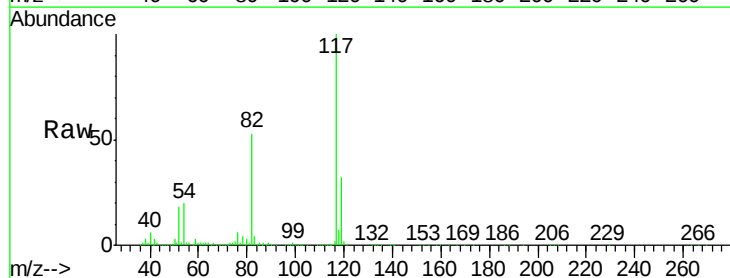
Tgt Ion: 117 Resp: 800654

Ion Ratio Lower Upper

117 100

82 53.4 41.0 61.6

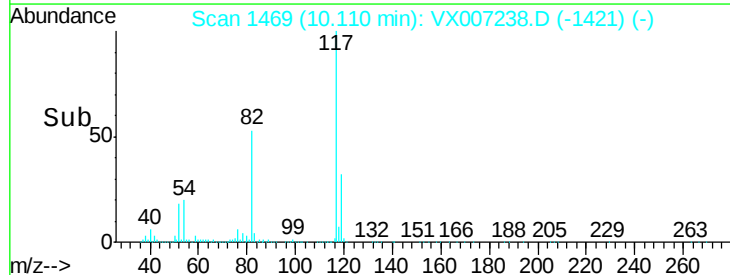
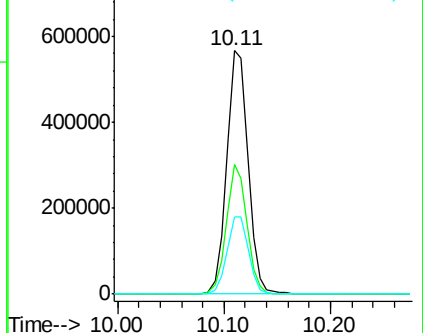
119 31.8 25.4 38.0

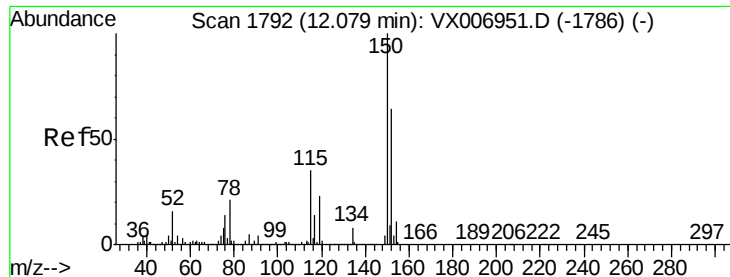


Abundance Ion 116.90 (116.60 to 117.60): VX006951.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006951.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006951.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

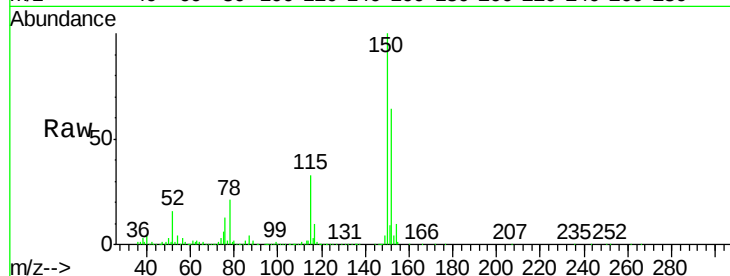
Tot Ion:152 Resp: 384985

Ion Ratio Lower Upper

152 100

115 54.3 39.1 117.2

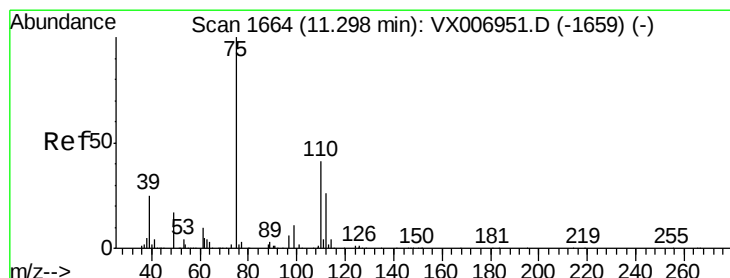
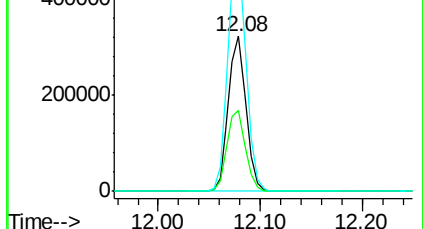
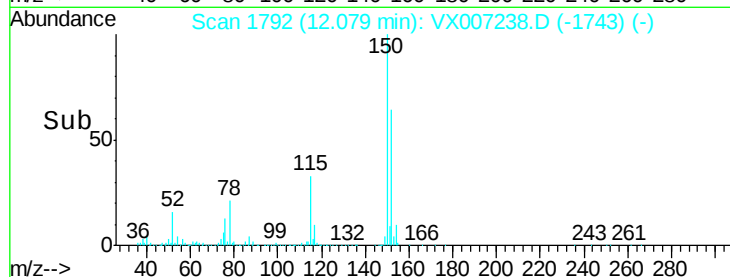
150 157.1 0.0 344.8



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: 22.139 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007238.D

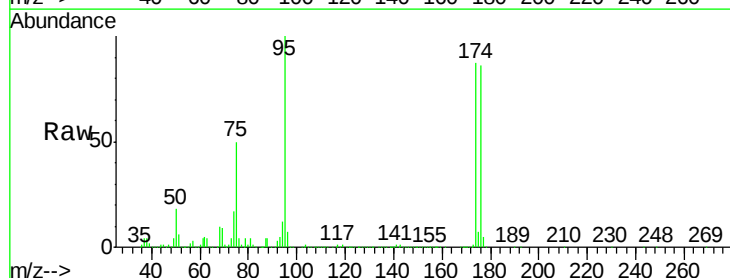
Acq: 25 Jan 2019 19:21

Tgt Ion: 75 Resp: 172719

Ion Ratio Lower Upper

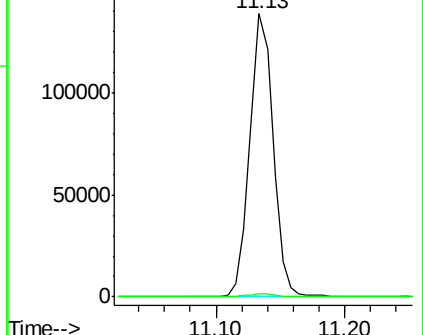
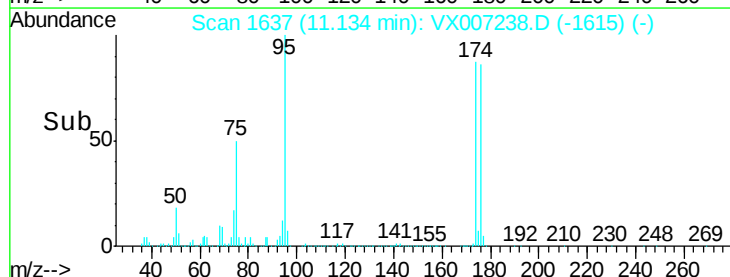
75 100

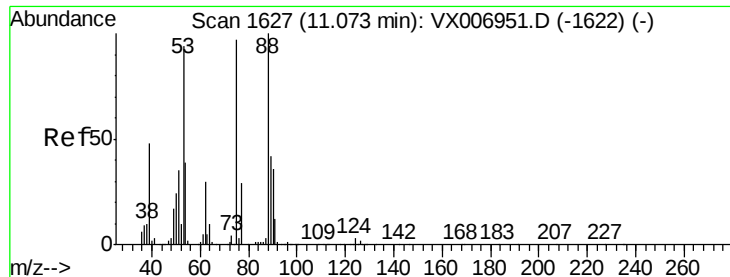
77 1.6 18.5 55.5#



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: 65.541 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

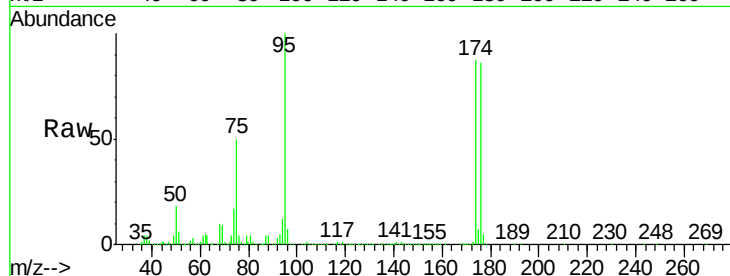
Tot Ion: 75 Resp: 172719

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

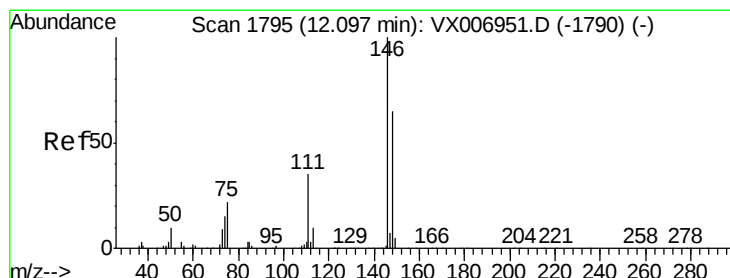
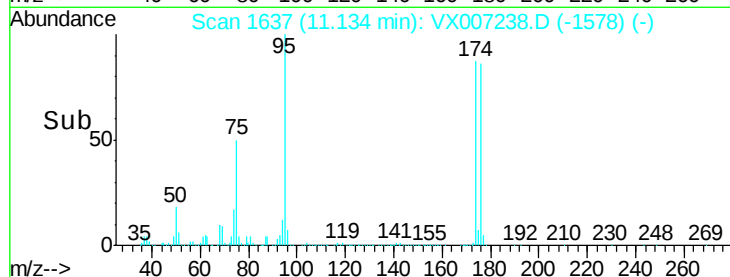
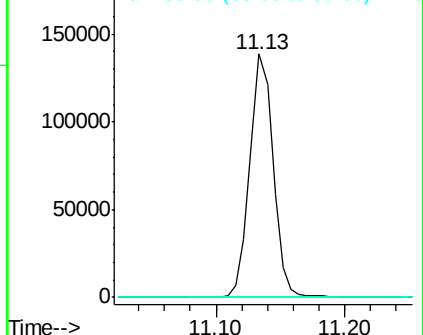
89 0.1 38.0 57.0#



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



#88

1,4-Dichlorobenzene

Concen: 0.220 ug/l

RT: 12.08 min Scan# 1793

Delta R.T. -0.01 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

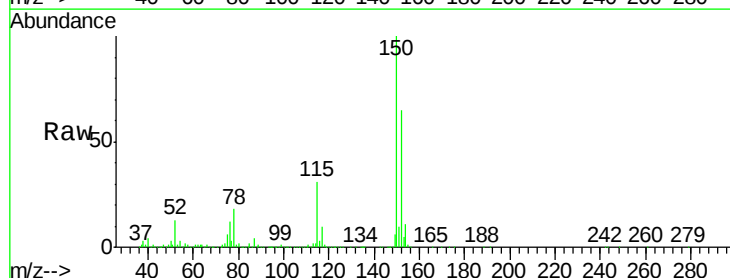
Tgt Ion:146 Resp: 962

Ion Ratio Lower Upper

146 100

111 490.2 18.1 54.1#

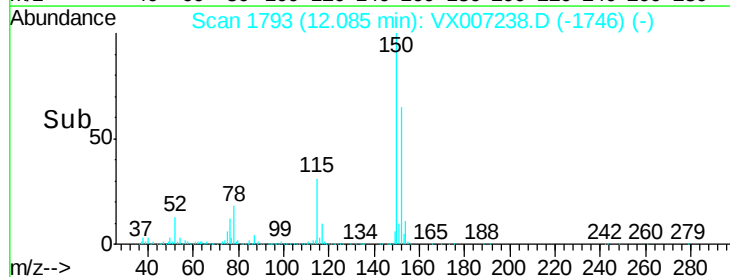
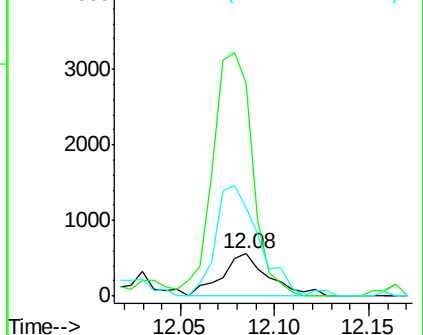
148 239.4 31.9 95.9#

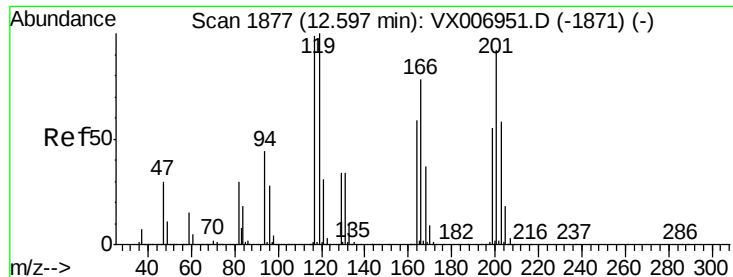


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#90

Hexachloroethane

Concen: 2.913 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX007238.D

Acq: 25 Jan 2019 19:21

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 19

Ion Ratio Lower Upper

117 100

201 105.3 42.9 128.7

