

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010719\
 Data File : VX006931.D
 Acq On : 07 Jan 2019 13:15
 Operator : JC/MD
 Sample : PB116189ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 08 06:32:37 2019
 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	648420	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	996611	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	937977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	457234	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	337066	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
35) Dibromofluoromethane	5.50	113	304080	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
50) Toluene-d8	8.71	98	1204534	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
62) 4-Bromofluorobenzene	11.13	95	428863	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	

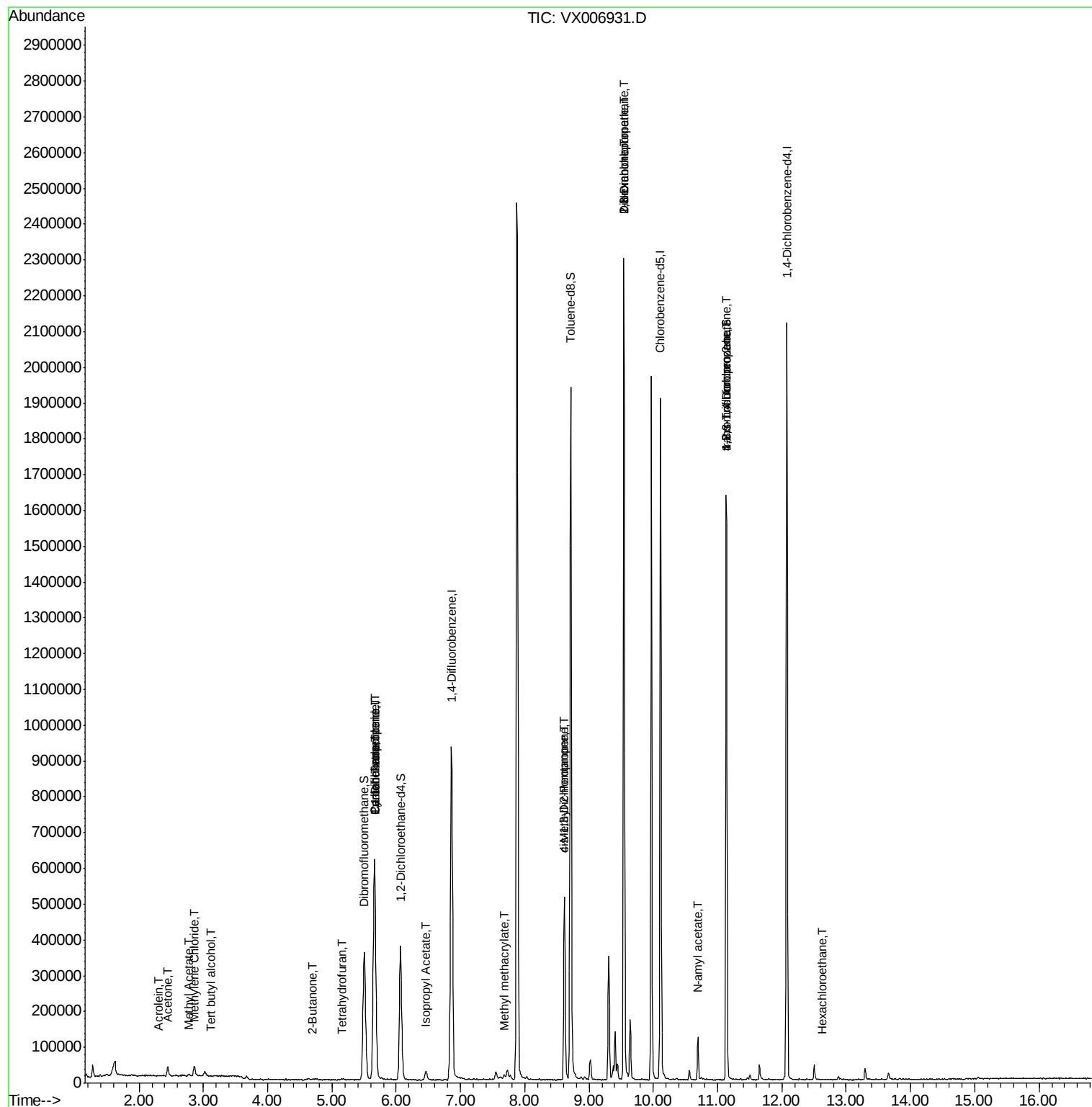
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1740	Below Cal	#	75
11) Tert butyl alcohol	3.12	59	350	0.224	ug/l #	1
13) Acrolein	2.30	56	282	0.268	ug/l #	13
16) Acetone	2.45	43	28305	8.816	ug/l	99
18) Methyl Acetate	2.78	43	3440	0.364	ug/l #	88
20) Methylene Chloride	2.86	84	13346	2.010	ug/l	94
25) 2-Butanone	4.70	43	4553	1.008	ug/l #	80
28) Bromochloromethane	5.03	49	96	Below Cal	#	4
29) Tetrahydrofuran	5.16	42	2964	0.996	ug/l #	91
31) Cyclohexane	5.67	56	11371	1.175	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	41829	5.068	ug/l #	49
38) Carbon Tetrachloride	5.67	117	58244	7.261	ug/l #	14
43) Isopropyl Acetate	6.46	43	31393	2.402	ug/l	98
48) Methyl methacrylate	7.68	41	15215	2.289	ug/l #	12
49) 1,4-Dioxane	7.76	88	200	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	167904	20.188	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	84111	9.586	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	19739	1.849	ug/l #	45
59) 2-Hexanone	9.54	43	252780	39.722	ug/l #	51
60) Dibromochloromethane	9.54	129	53	2.331	ug/l	66
74) N-amyl acetate	10.69	43	25111	2.243	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	203300	23.925	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	203300	70.880	ug/l #	10
90) Hexachloroethane	12.64	117	59	3.306	ug/l	99

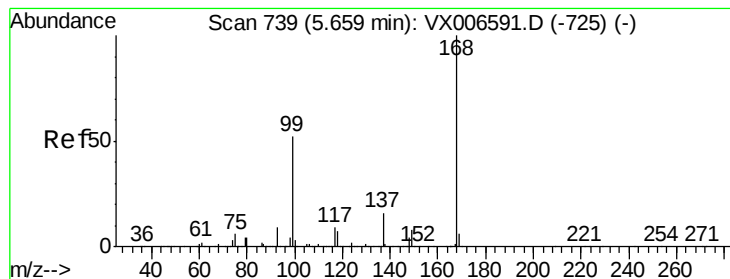
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

Instrument :

MSVOA_X

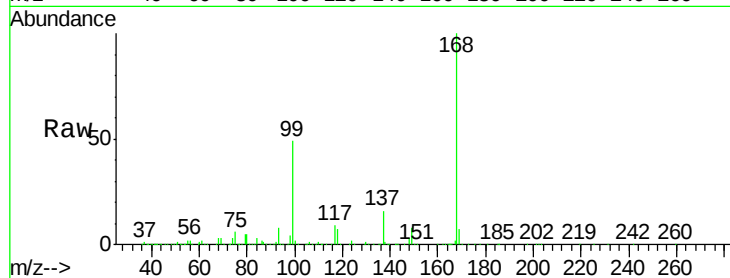
ClientSampleId :

Tot Ion:168 Resp: 648420

Ion Ratio Lower Upper

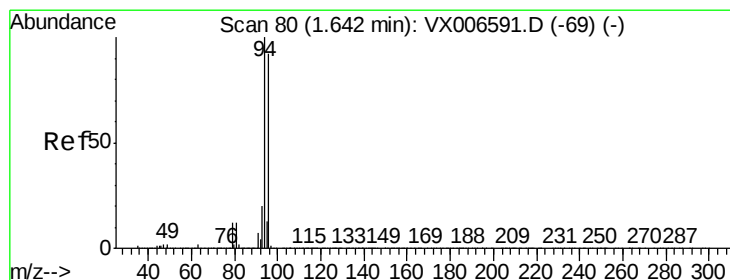
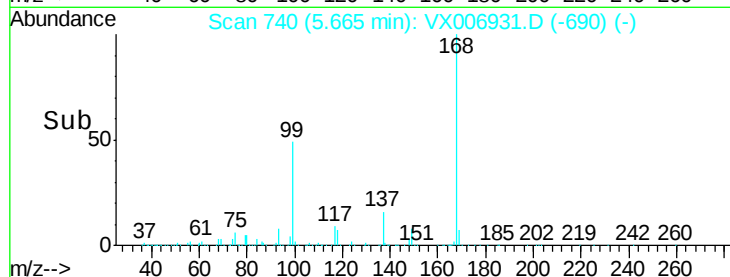
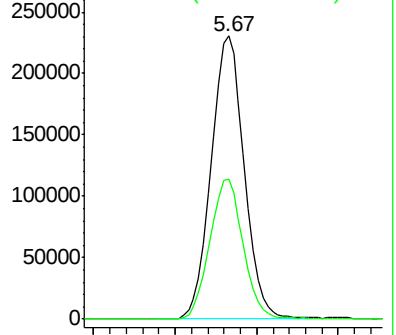
168 100

99 49.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006931.D

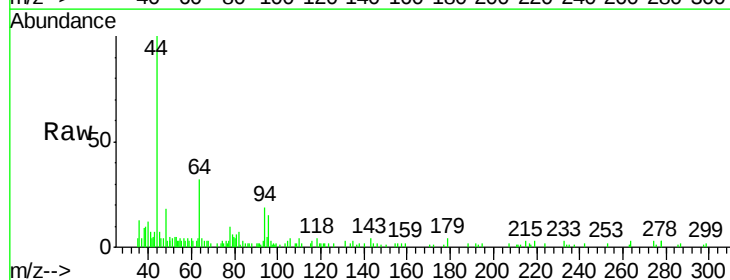
Acq: 07 Jan 2019 13:15

Tgt Ion: 94 Resp: 1740

Ion Ratio Lower Upper

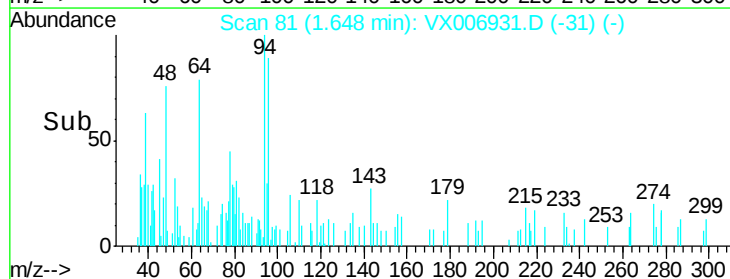
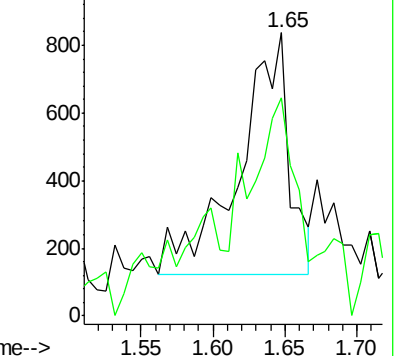
94 100

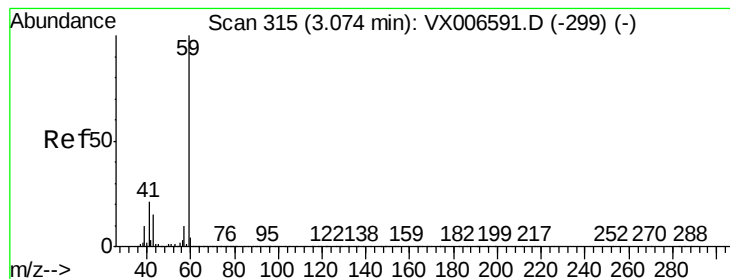
96 68.2 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



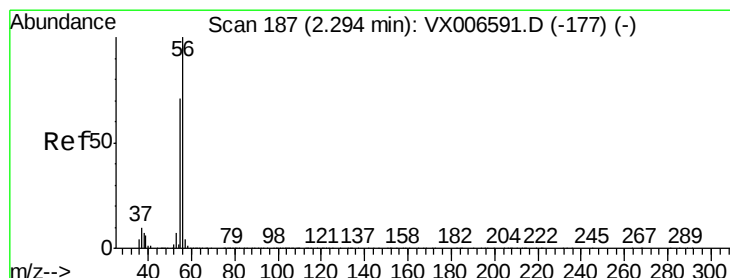
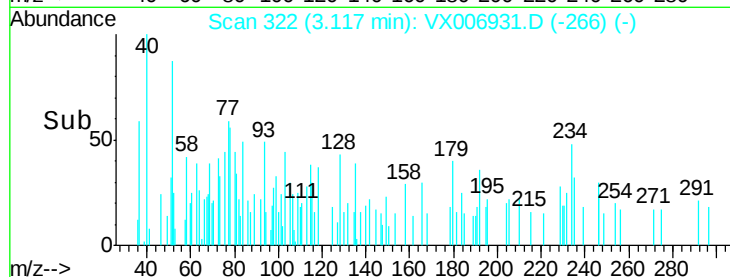
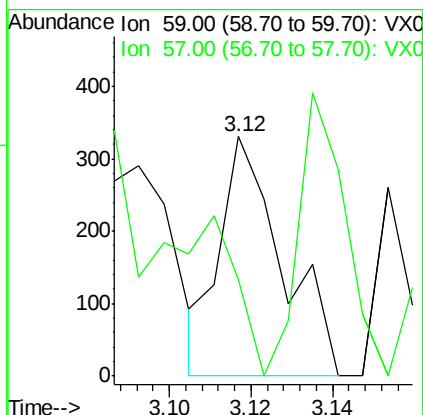
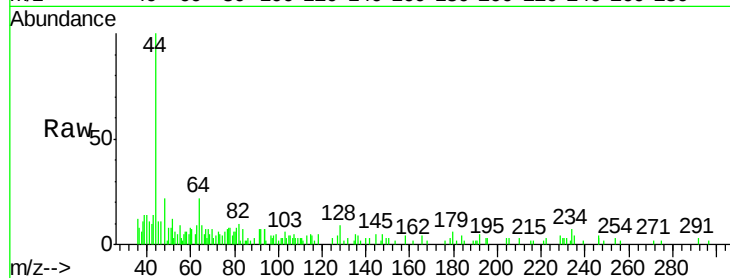


#11

Tert butyl alcohol
Concen: 0.224 ug/l
RT: 3.12 min Scan# 322
Delta R.T. 0.04 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

Instrument :
MSVOA_X
ClientSampled :

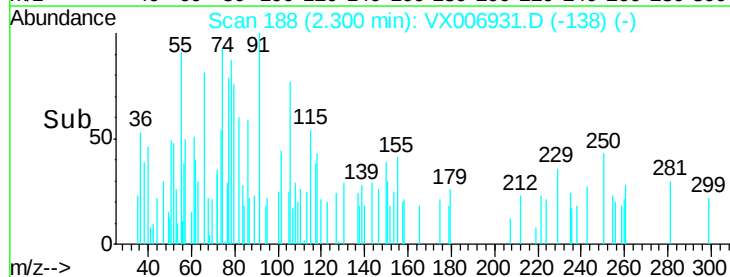
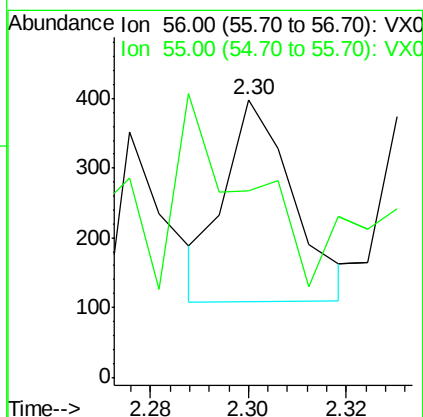
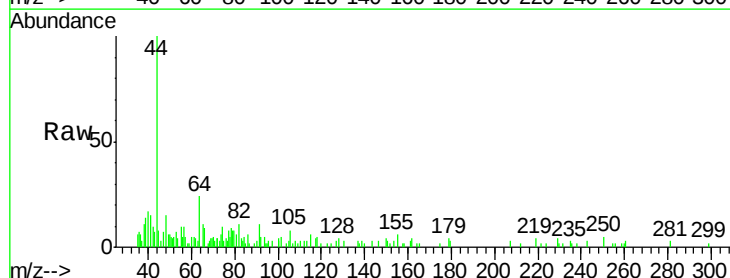
Tot Ion: 59 Resp: 350
Ion Ratio Lower Upper
59 100
57 87.7 8.5 12.7#

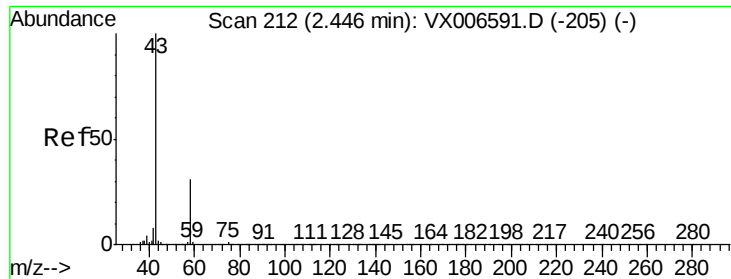


#13

Acrolein
Concen: 0.268 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

Tgt Ion: 56 Resp: 282
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.4#





#16

Acetone

Concen: 8.816 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

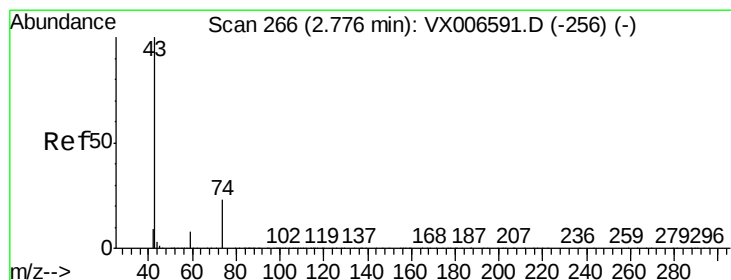
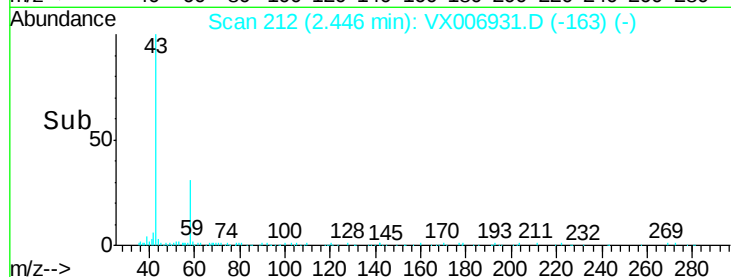
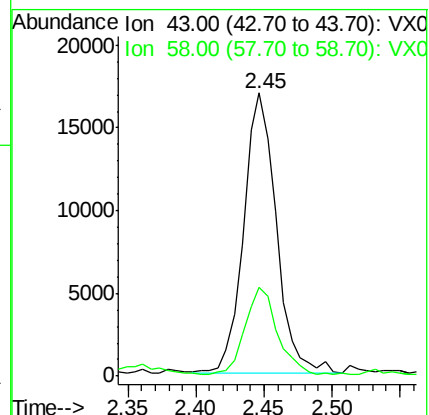
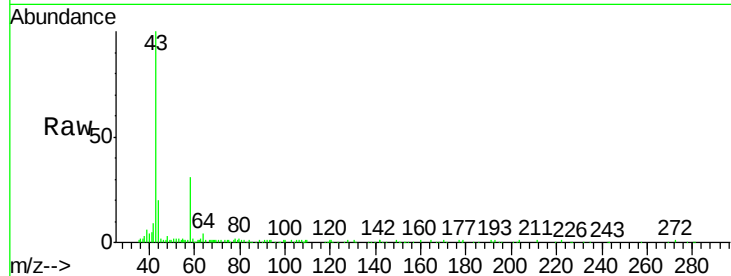
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 28305

Ion Ratio Lower Upper

43 100

58 30.6 25.0 37.6



#18

Methyl Acetate

Concen: 0.364 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX006931.D

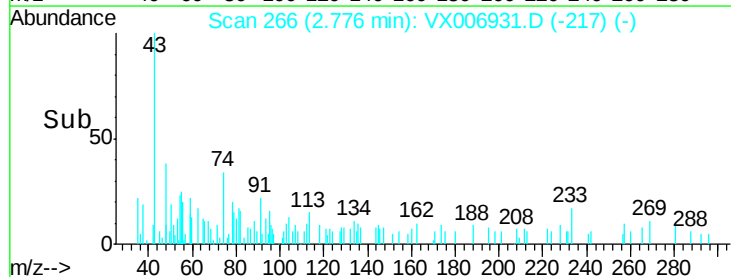
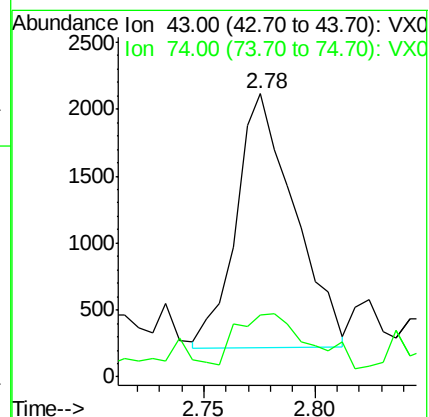
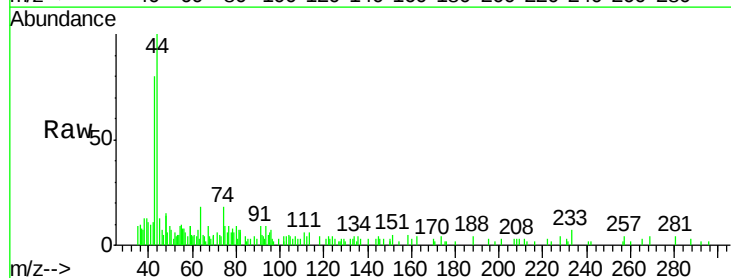
Acq: 07 Jan 2019 13:15

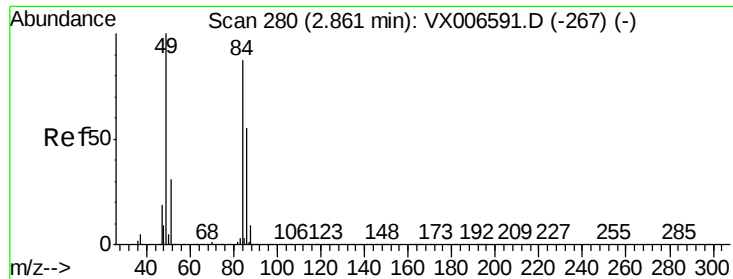
Tgt Ion: 43 Resp: 3440

Ion Ratio Lower Upper

43 100

74 28.9 18.6 28.0#

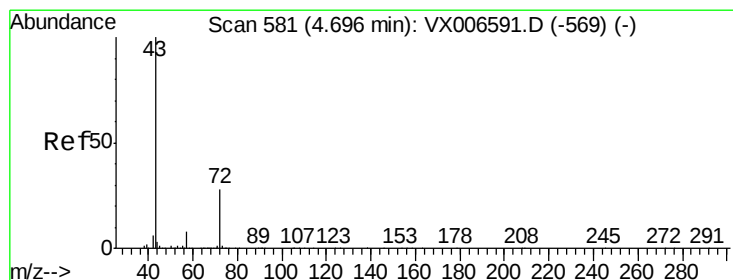
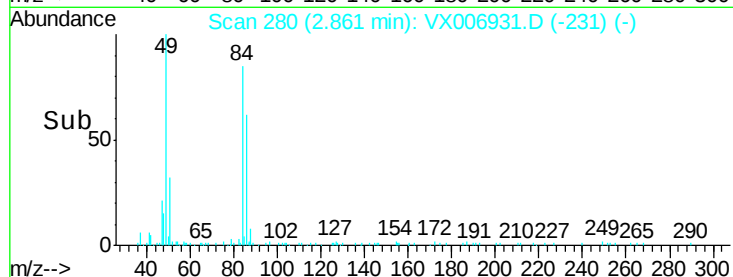
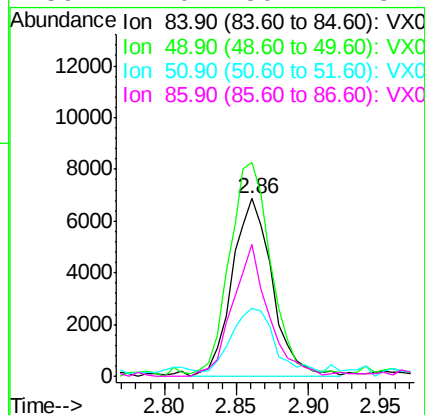
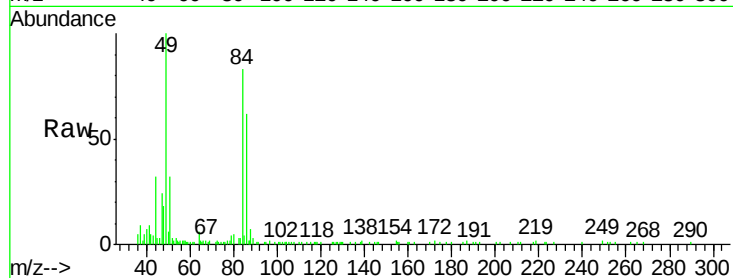




#20
Methvlene Chloride
Concen: 2.010 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

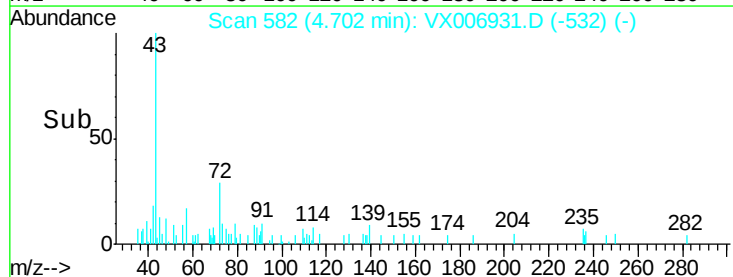
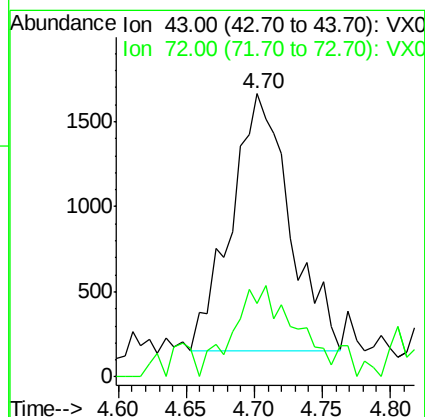
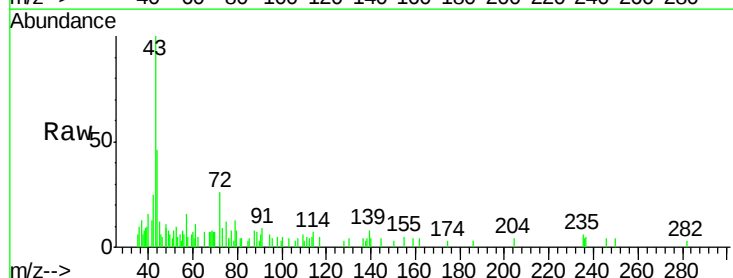
Instrument :
MSVOA_X
ClientSampleId :

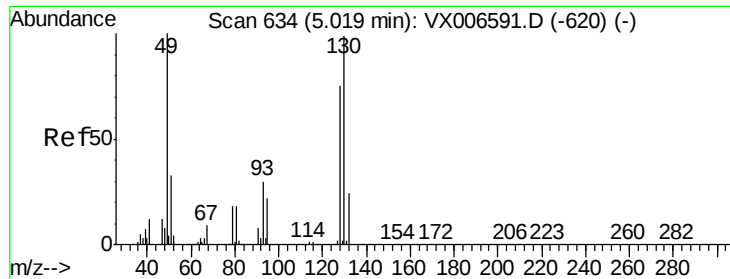
Tot Ion:	84	Resp:	13346
Ion	Ratio	Lower	Upper
84	100		
49	118.6	91.8	137.6
51	34.7	28.5	42.7
86	74.0	50.2	75.2



#25
2-Butanone
Concen: 1.008 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

Tgt Ion:	43	Resp:	4553
Ion	Ratio	Lower	Upper
43	100		
72	17.6	22.4	33.6#

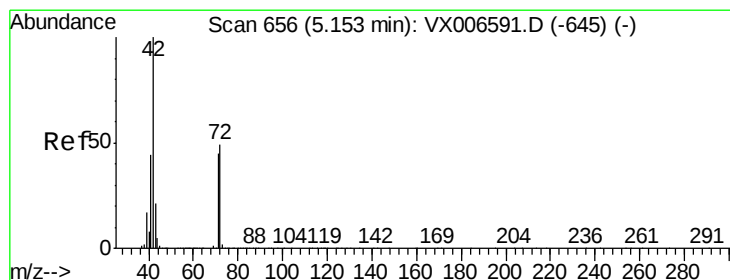
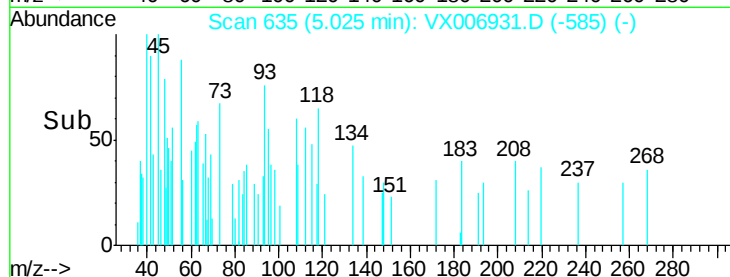
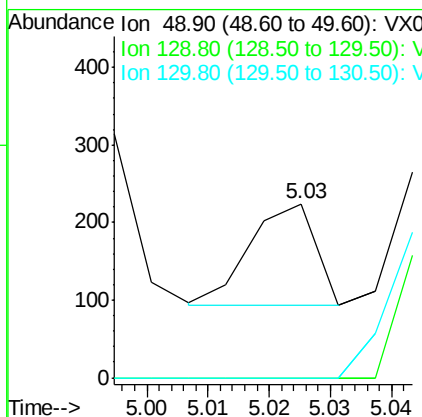
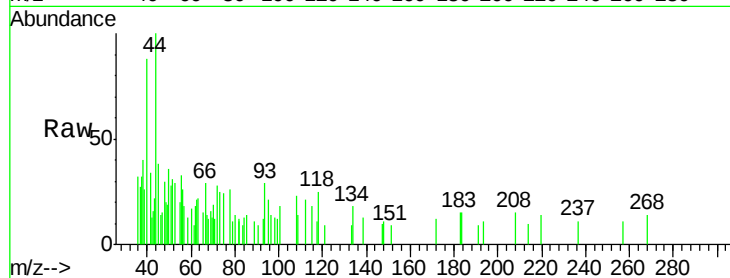




#28
Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

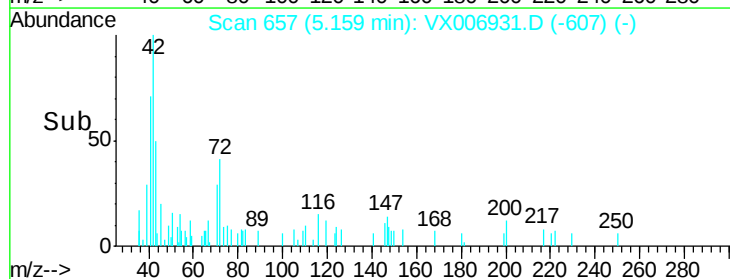
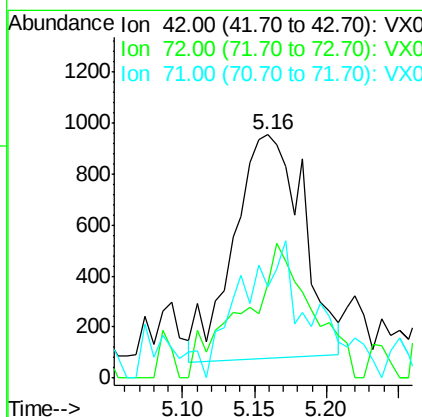
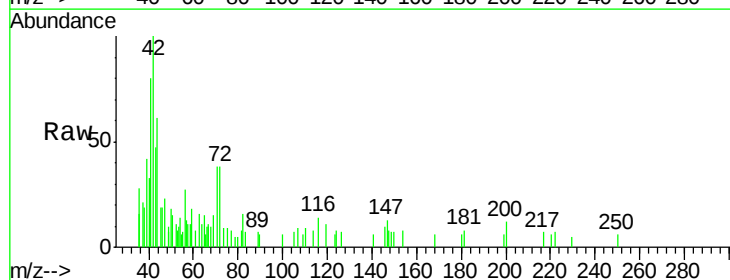
Instrument :
MSVOA_X
ClientSampleId :

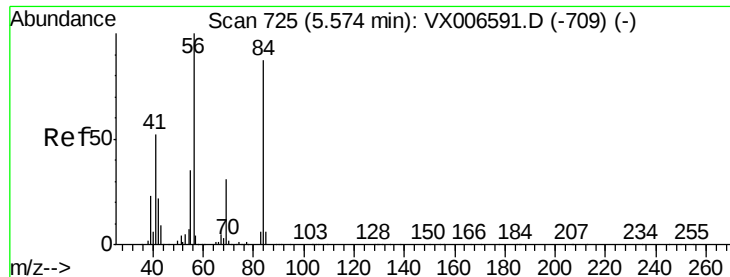
Tot Ion: 49 Resp: 96
Ion Ratio Lower Upper
49 100
129 0.0 0.0 5.4
130 0.0 77.7 116.5#



#29
Tetrahydrofuran
Concen: 0.996 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

Tgt Ion: 42 Resp: 2964
Ion Ratio Lower Upper
42 100
72 59.2 38.9 58.3#
71 47.2 36.2 54.4





#31

Cyclohexane

Concen: 1.175 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

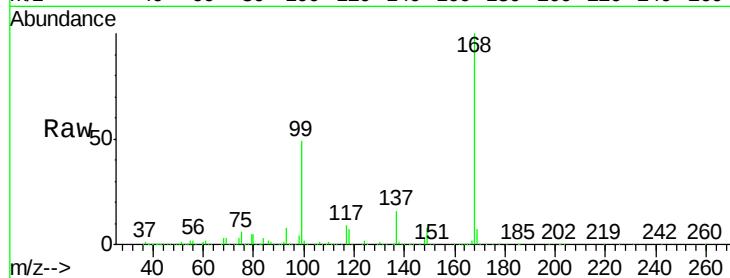
Tot Ion: 56 Resp: 11371

Ion Ratio Lower Upper

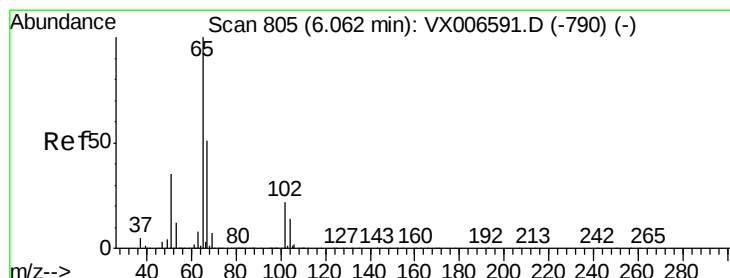
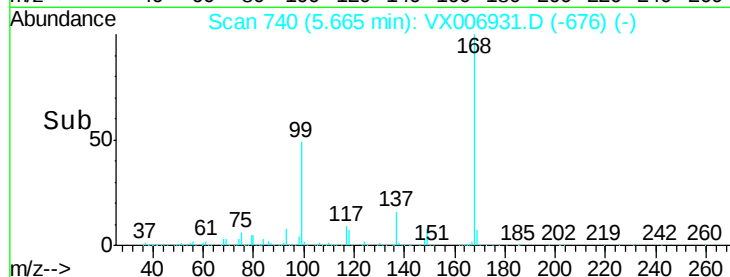
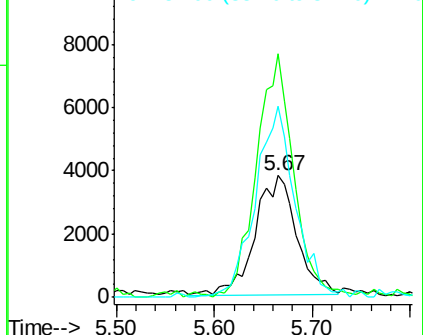
56 100

69 202.3 24.4 36.6#

84 160.8 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



#33

1,2-Dichloroethane-d4

Concen: 48.232 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006931.D

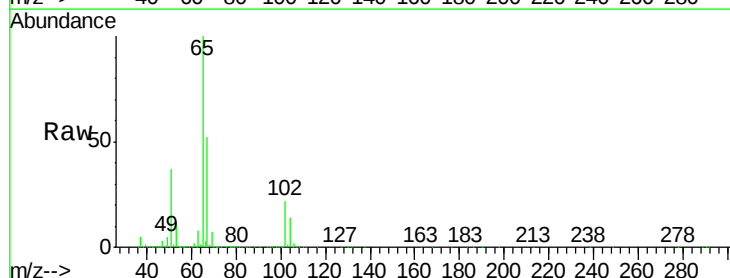
Acq: 07 Jan 2019 13:15

Tgt Ion: 65 Resp: 337066

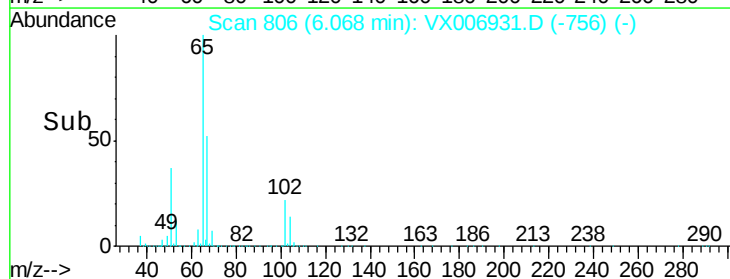
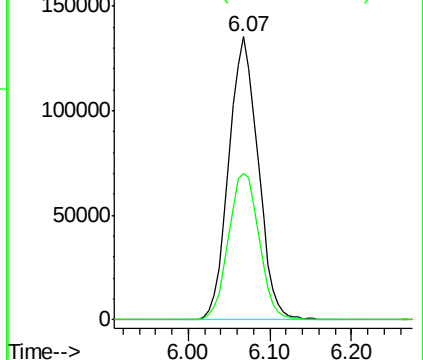
Ion Ratio Lower Upper

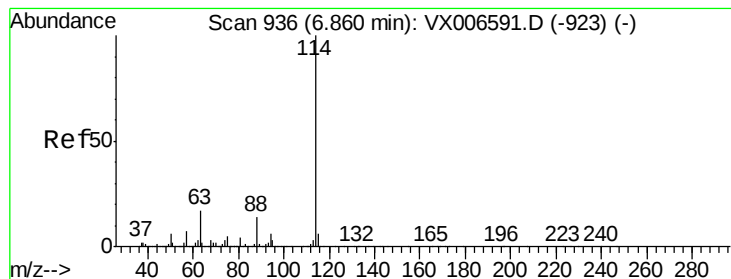
65 100

67 54.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

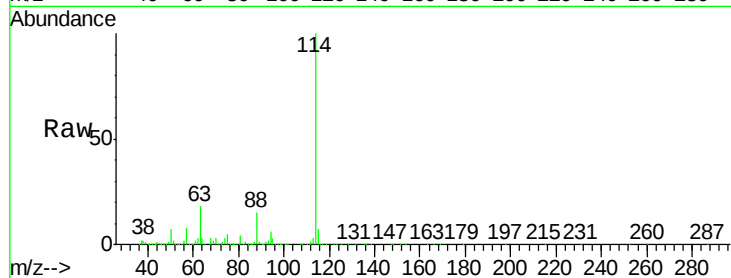
Tot Ion:114 Resp: 996611

Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.8

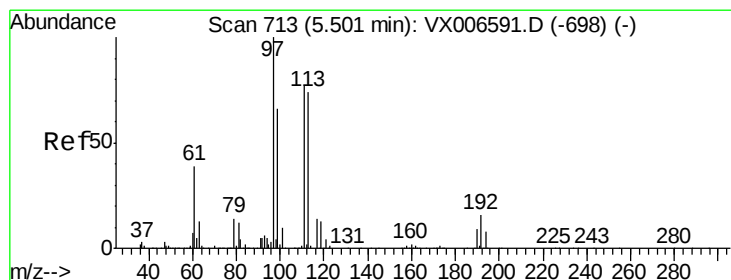
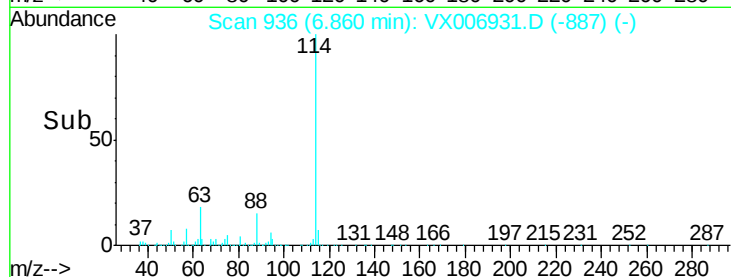
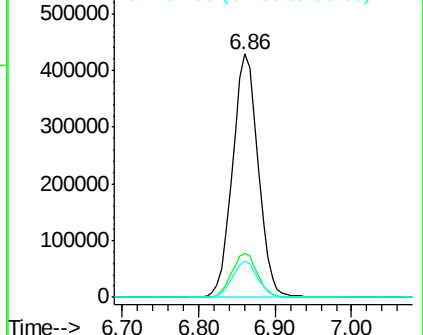
88 14.9 0.0 28.8



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: 48.248 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

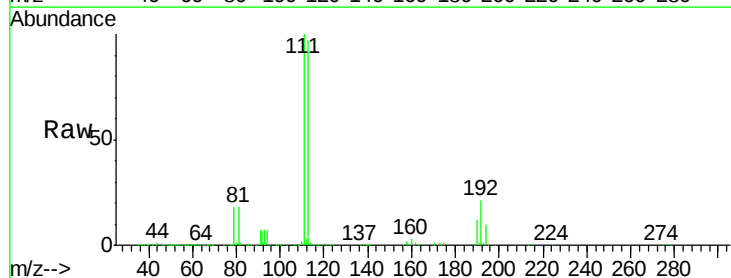
Tgt Ion:113 Resp: 304080

Ion Ratio Lower Upper

113 100

111 102.1 81.6 122.4

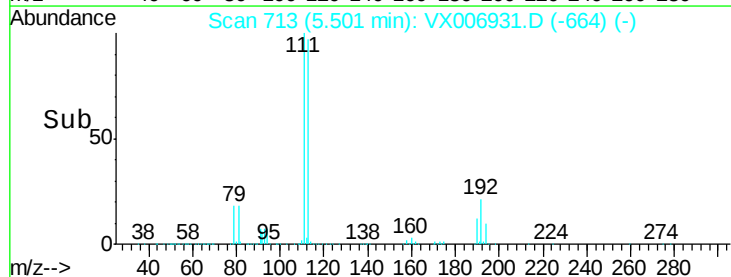
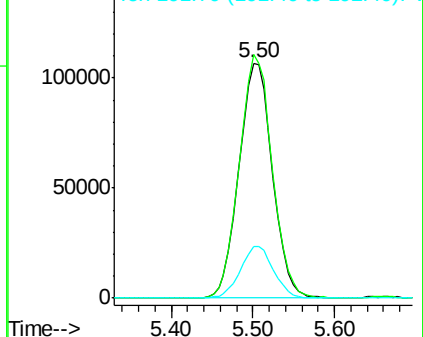
192 21.8 16.7 25.1

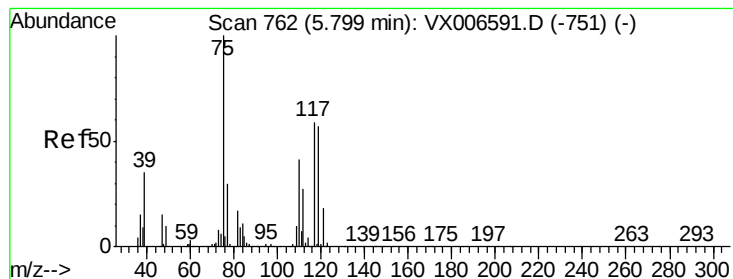


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.068 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

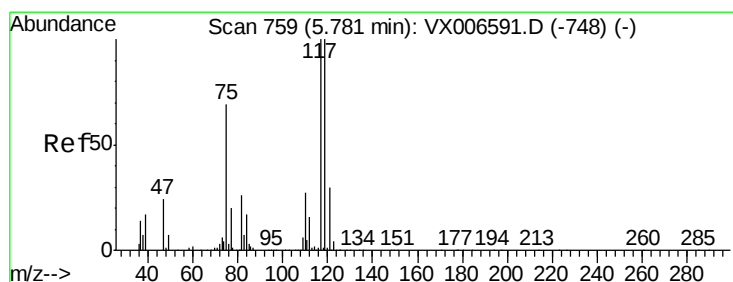
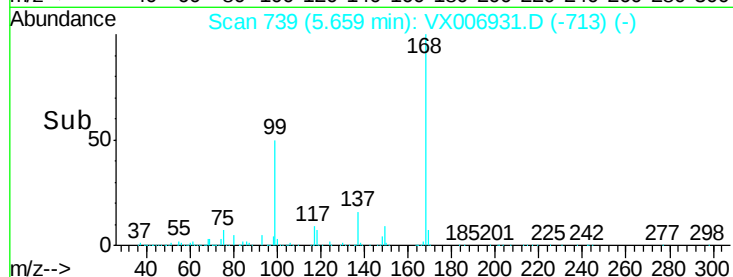
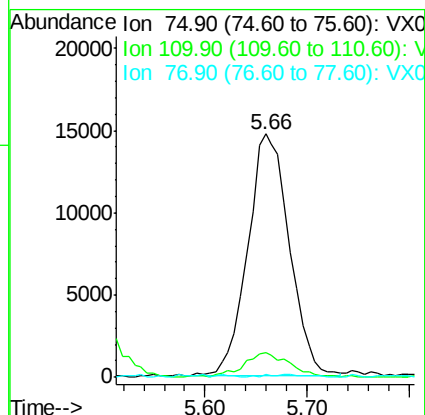
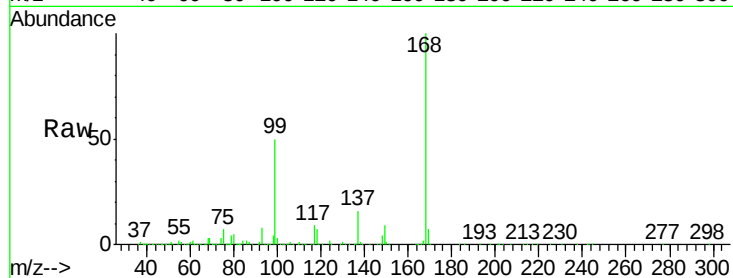
Tot Ion: 75 Resp: 41829

Ion Ratio Lower Upper

75 100

110 11.6 20.2 60.5#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.261 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

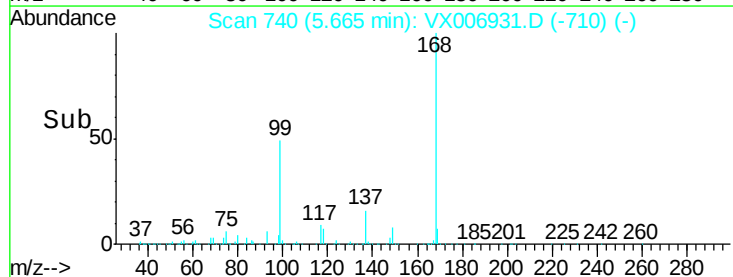
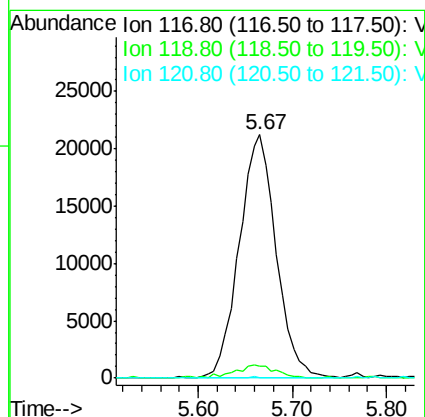
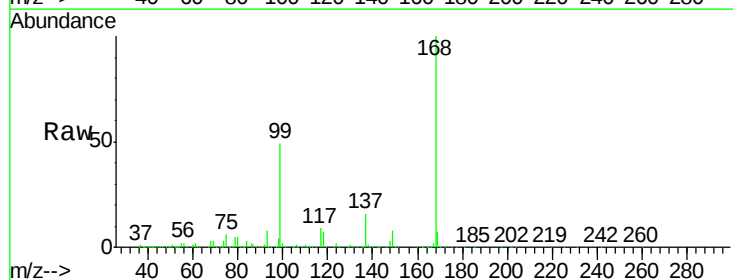
Tgt Ion: 117 Resp: 58244

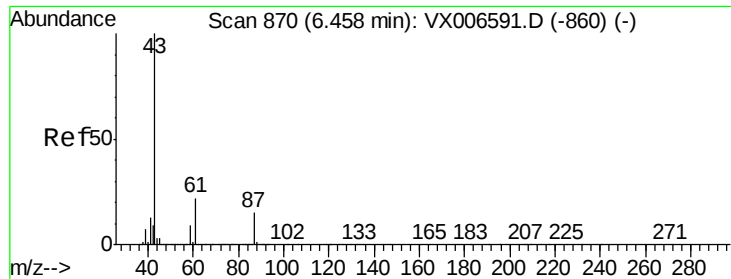
Ion Ratio Lower Upper

117 100

119 4.7 79.4 119.2#

121 0.0 24.0 36.0#



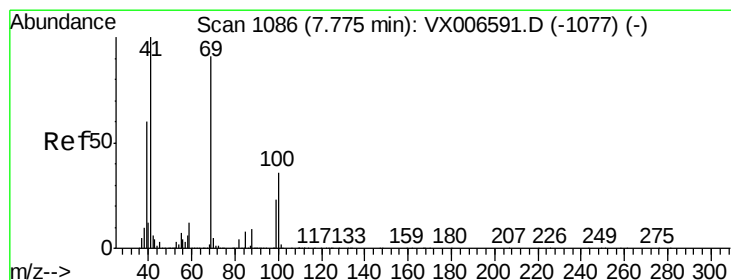
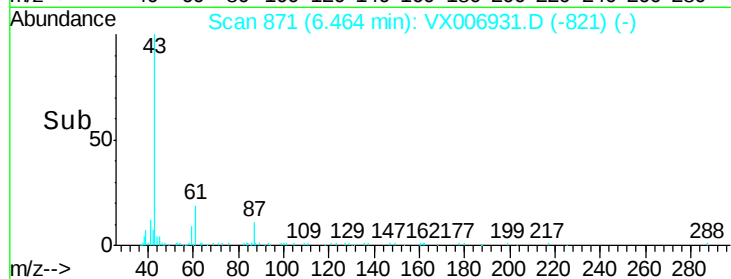
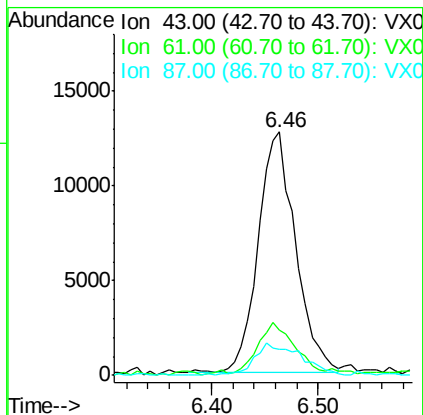
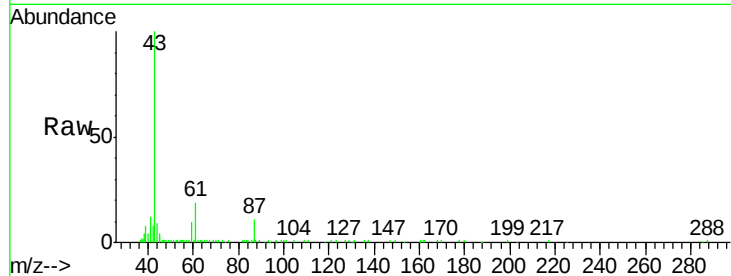


#43

Isopropyl Acetate
 Concen: 2.402 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX006931.D
 Acq: 07 Jan 2019 13:15

Instrument :
 MSVOA_X
 ClientSampleId :

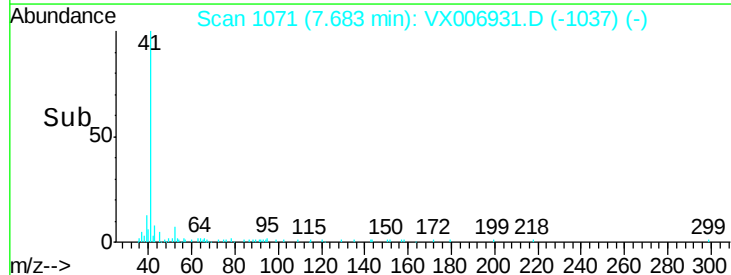
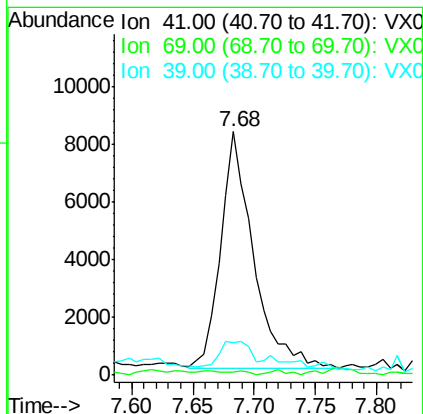
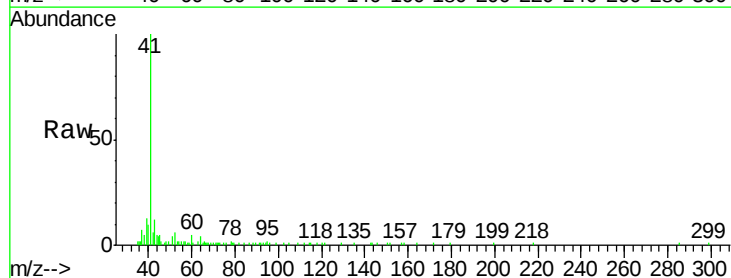
Tot Ion	Ratio	Lower	Upper
43	100		
61	19.8	16.8	25.2
87	16.4	12.4	18.6

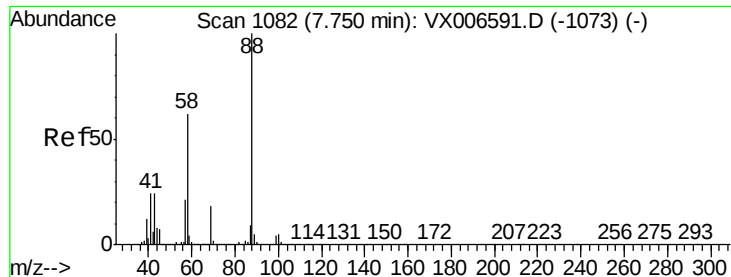


#48

Methyl methacrylate
 Concen: 2.289 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX006931.D
 Acq: 07 Jan 2019 13:15

Tgt Ion	Ratio	Lower	Upper
41	100		
69	0.6	72.4	108.6#
39	0.0	45.8	68.8#

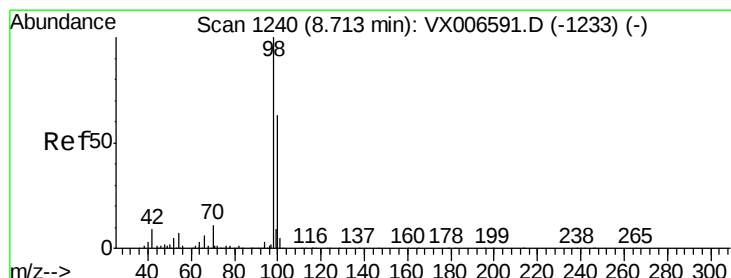
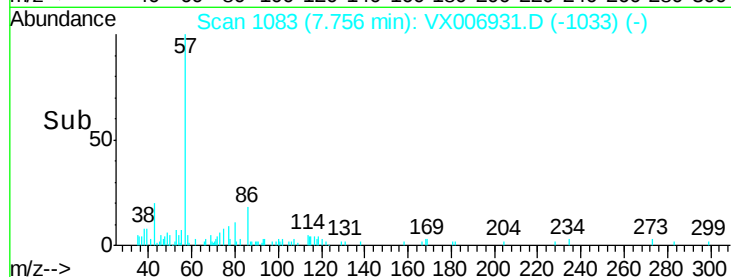
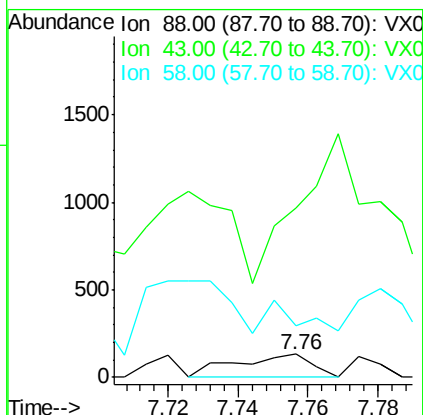
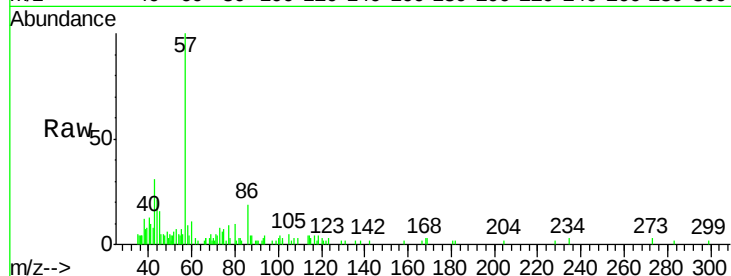




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

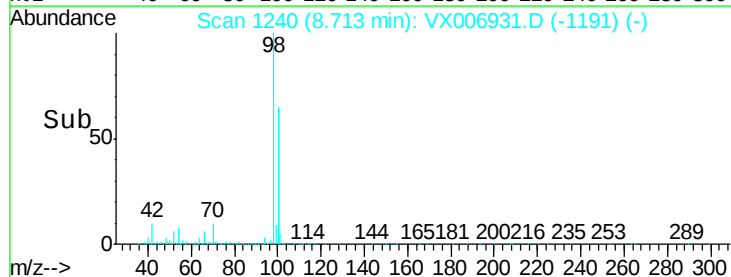
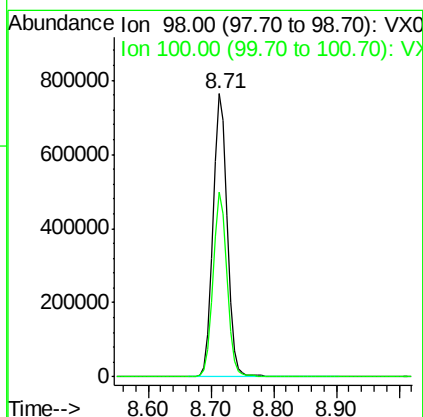
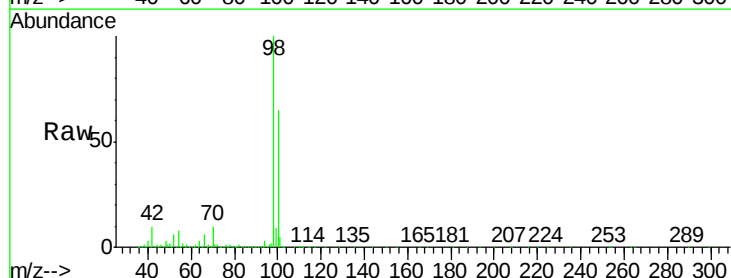
Instrument :
MSVOA_X
ClientSampleId :

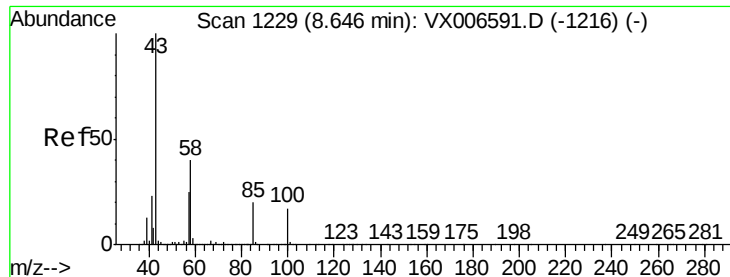
Tot Ion: 88 Resp: 200
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 0.0 51.0 76.4#



#50
Toluene-d8
Concen: 50.695 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

Tgt Ion: 98 Resp: 1204534
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 20.188 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

Instrument :

MSVOA_X

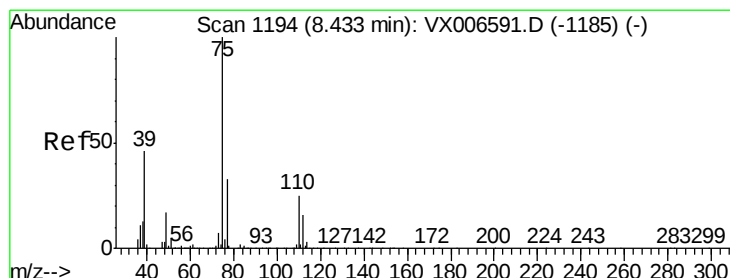
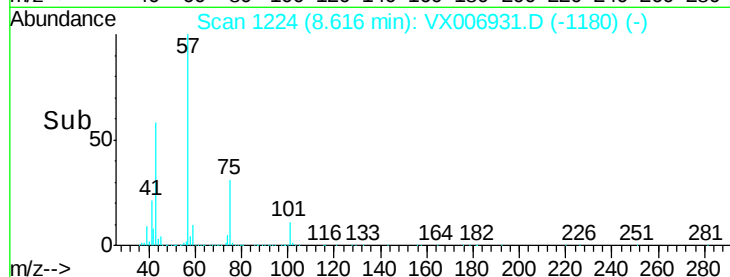
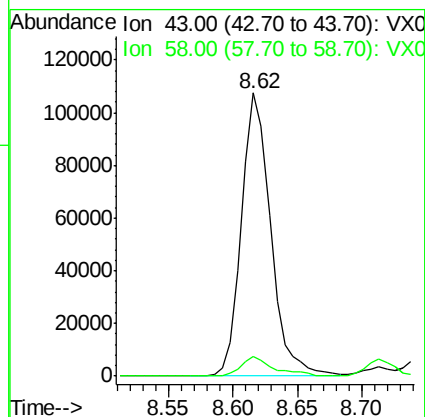
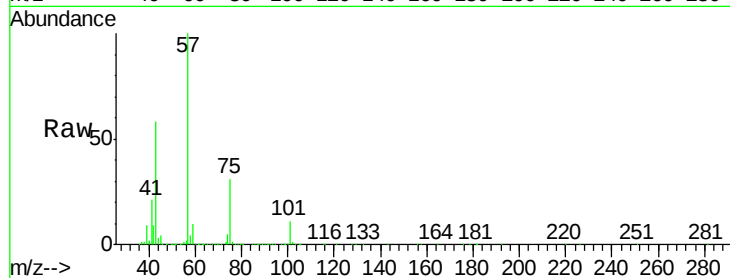
ClientSampleId :

Tot Ion: 43 Resp: 167904

Ion Ratio Lower Upper

43 100

58 7.8 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 9.586 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

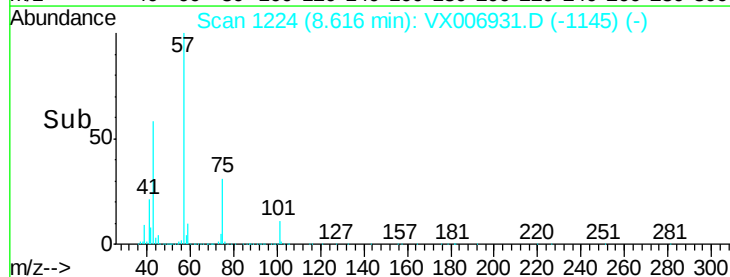
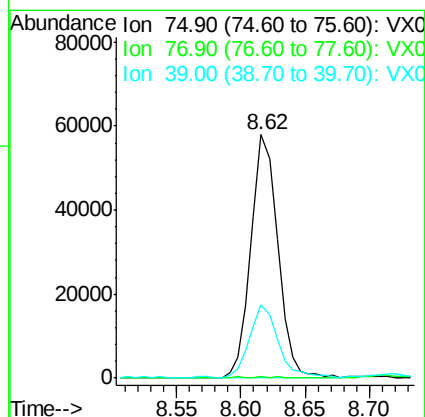
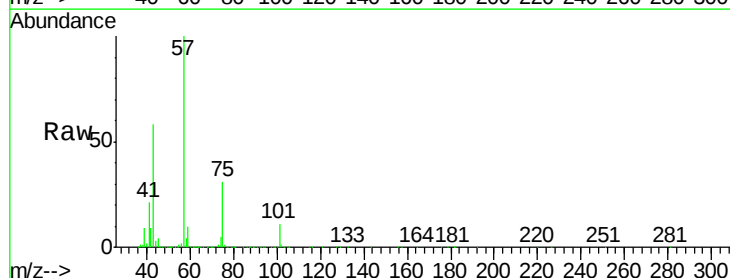
Tgt Ion: 75 Resp: 84111

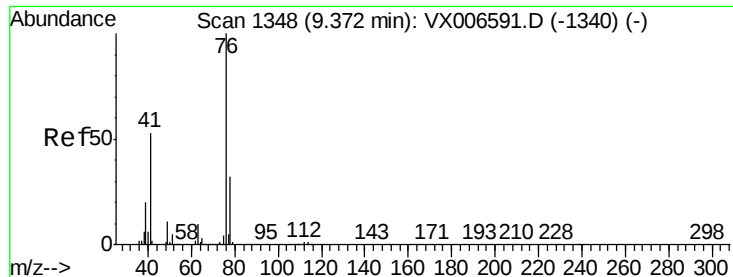
Ion Ratio Lower Upper

75 100

77 0.9 26.2 39.2#

39 30.0 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.849 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

Instrument :

MSVOA_X

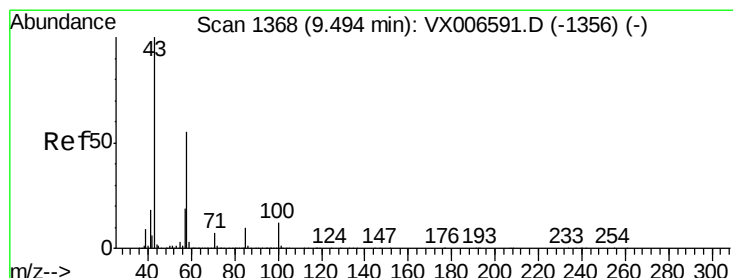
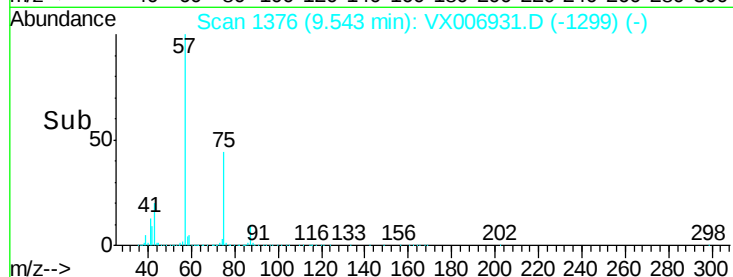
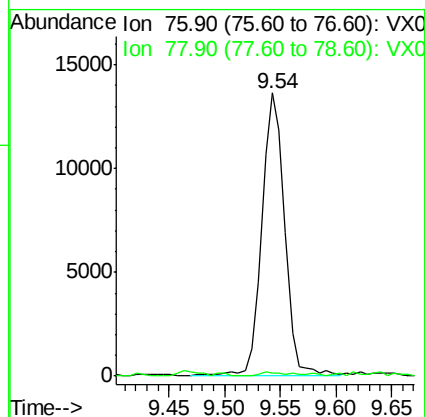
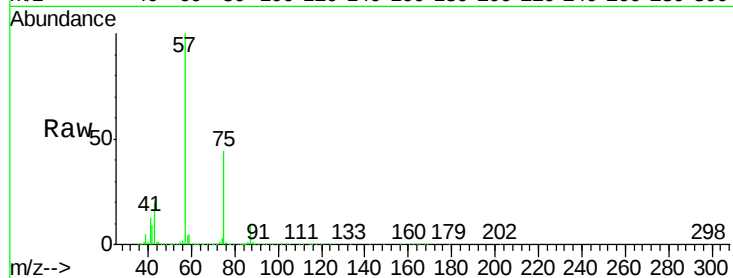
ClientSampleId :

Tot Ion: 76 Resp: 19739

Ion Ratio Lower Upper

76 100

78 1.7 26.0 39.0#



#59

2-Hexanone

Concen: 39.722 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006931.D

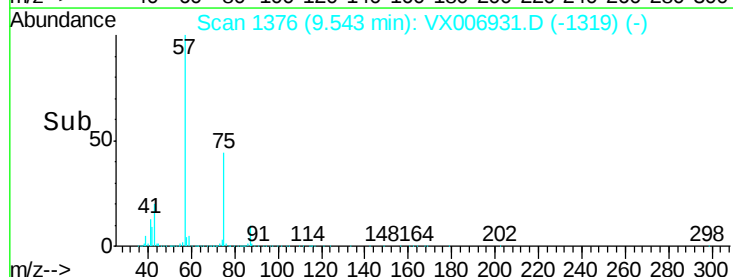
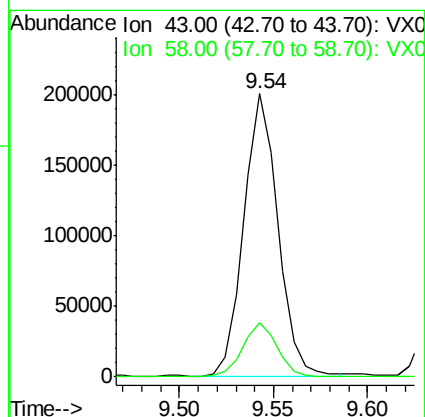
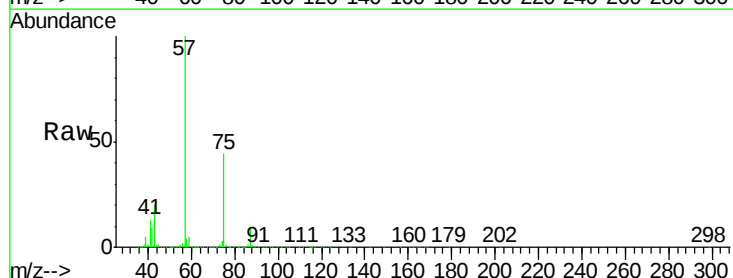
Acq: 07 Jan 2019 13:15

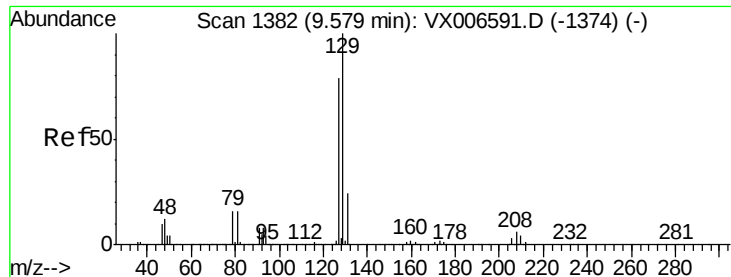
Tgt Ion: 43 Resp: 252780

Ion Ratio Lower Upper

43 100

58 19.5 27.7 83.1#





#60

Dibromochloromethane

Concen: 2.331 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. -0.04 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

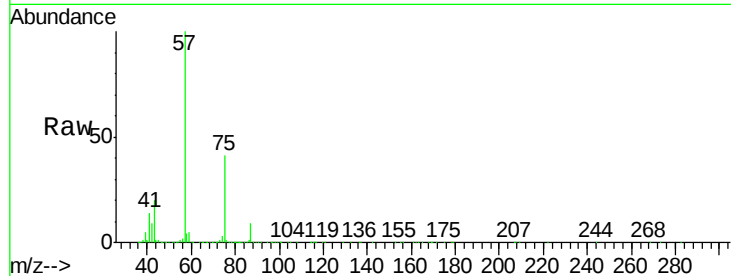
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 53

Ion Ratio Lower Upper

129 100

127 49.1 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

150

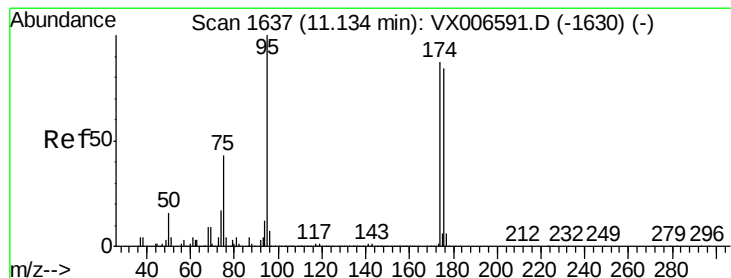
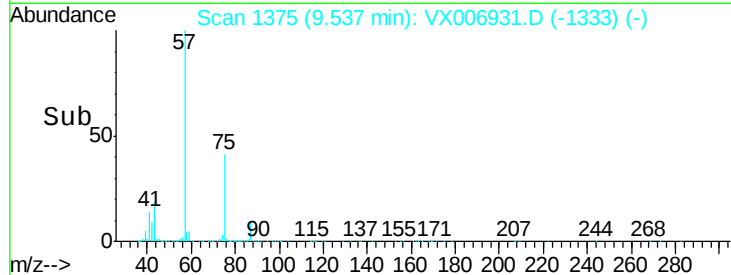
100

50

0

9.52 9.54

Time-->



#62

4-Bromofluorobenzene

Concen: 49.283 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

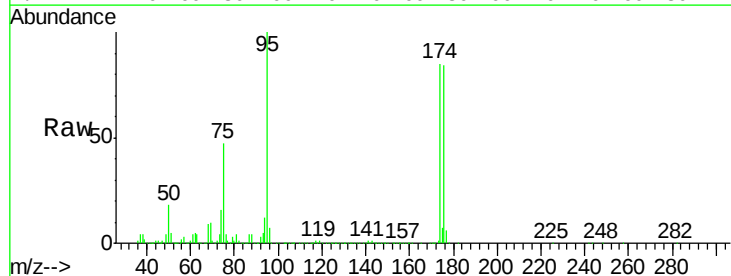
Tgt Ion: 95 Resp: 428863

Ion Ratio Lower Upper

95 100

174 92.8 0.0 182.2

176 89.6 0.0 178.8



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

400000

300000

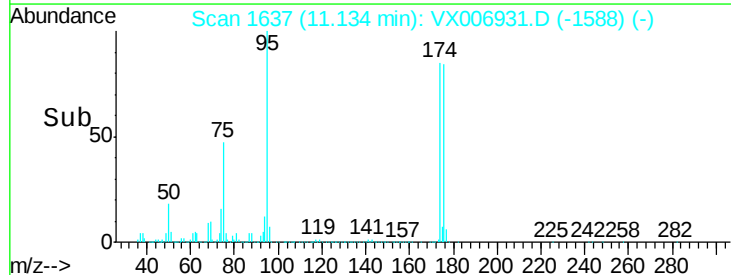
200000

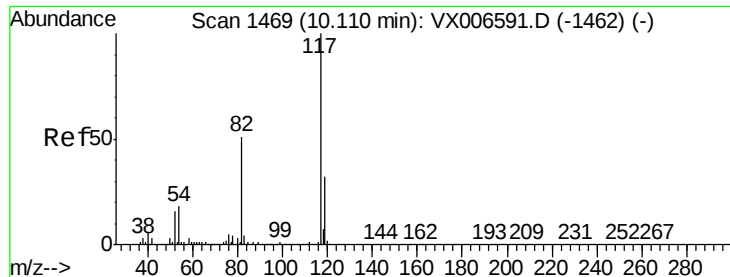
100000

0

11.10 11.20

Time-->

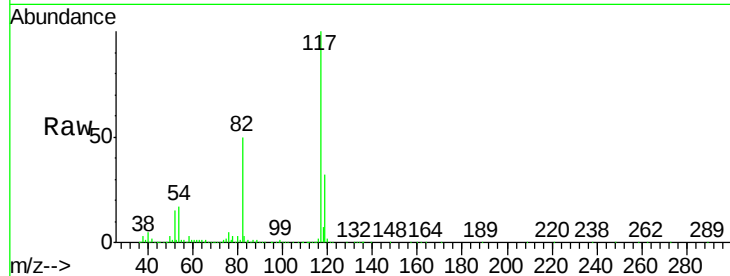




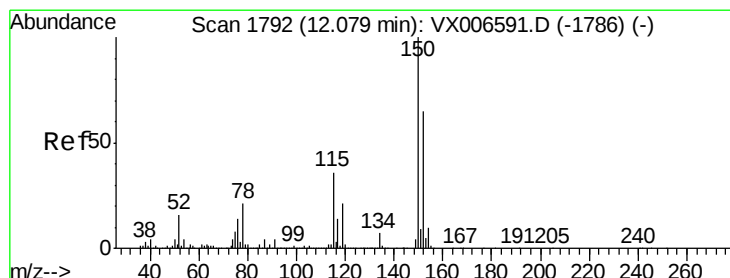
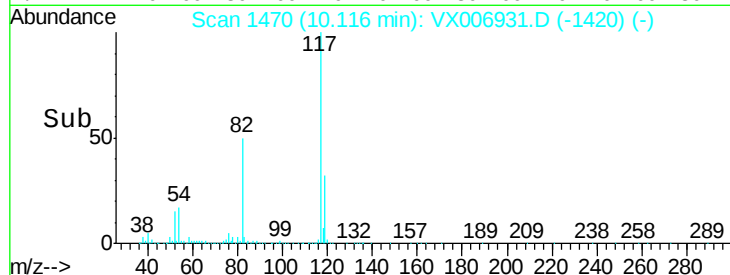
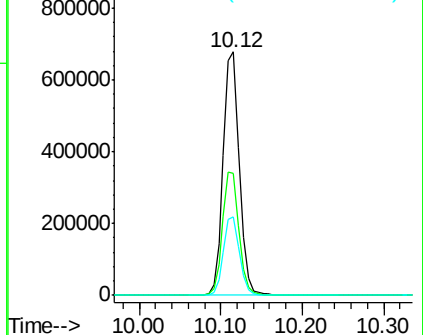
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 937977
Ion Ratio Lower Upper
117 100
82 50.2 41.0 61.6
119 32.3 25.4 38.0

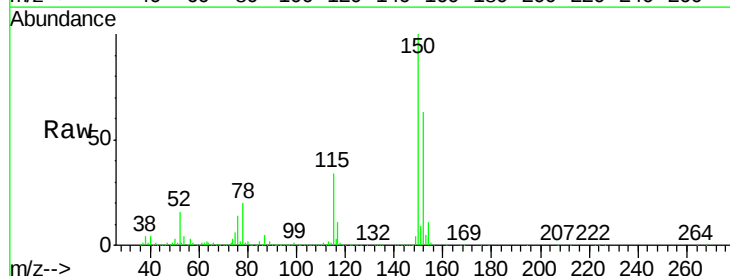


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

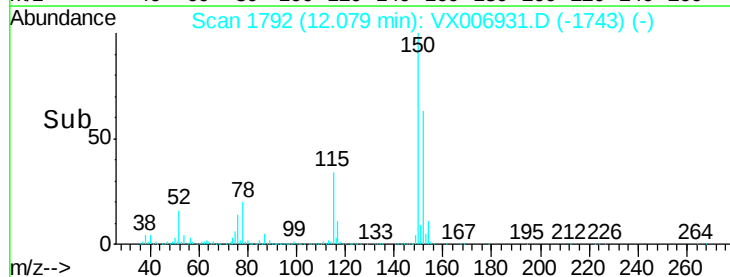
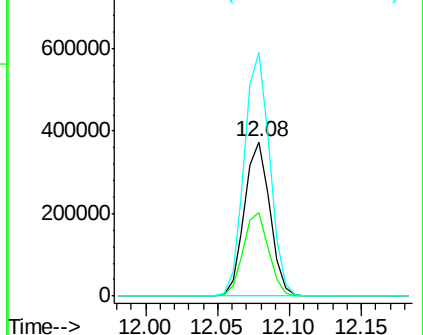


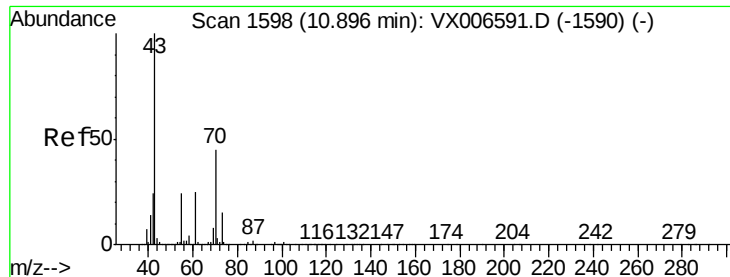
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006931.D
Acq: 07 Jan 2019 13:15

Tgt Ion:152 Resp: 457234
Ion Ratio Lower Upper
152 100
115 54.4 39.1 117.2
150 158.2 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





#74

N-amvl acetate

Concen: 2.243 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX006931.D

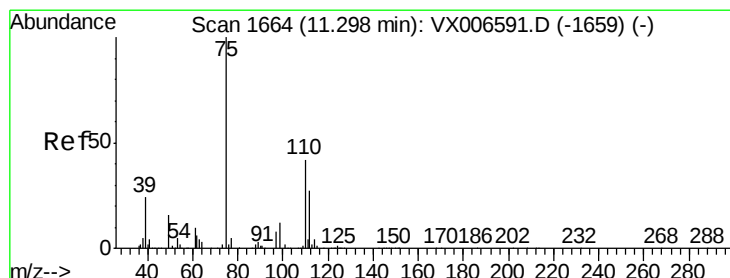
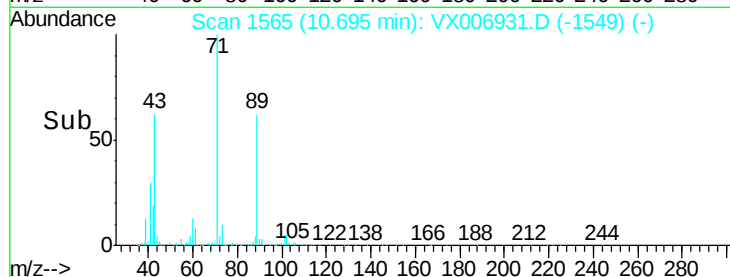
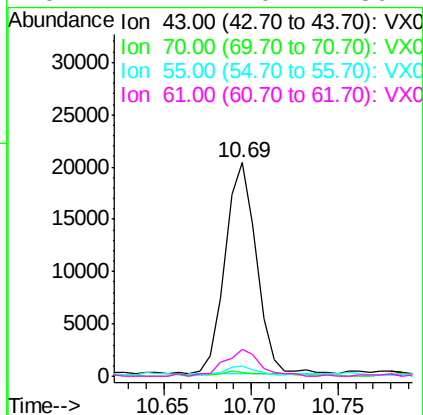
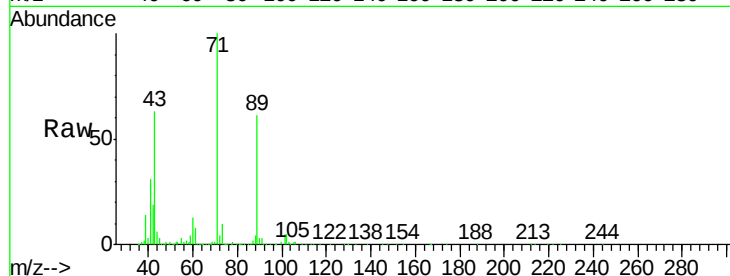
Acq: 07 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	43	Resp:	25111
Ion	Ratio	Lower	Upper
43	100		
70	3.6	35.8	53.8#
55	5.9	19.4	29.0#
61	14.7	20.1	30.1#



#76

1,2,3-Trichloropropane

Concen: 23.925 ug/l

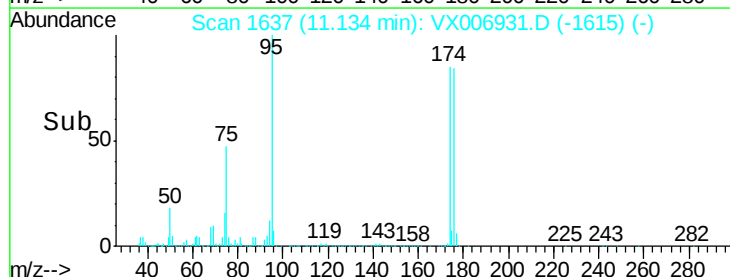
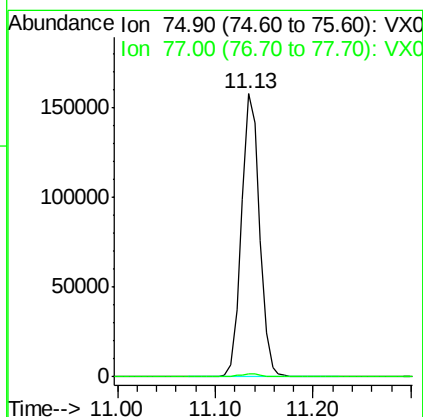
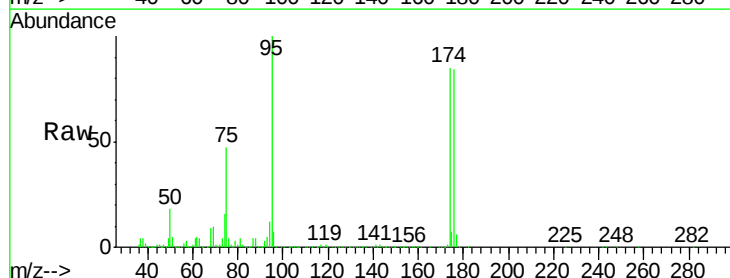
RT: 11.13 min Scan# 1637

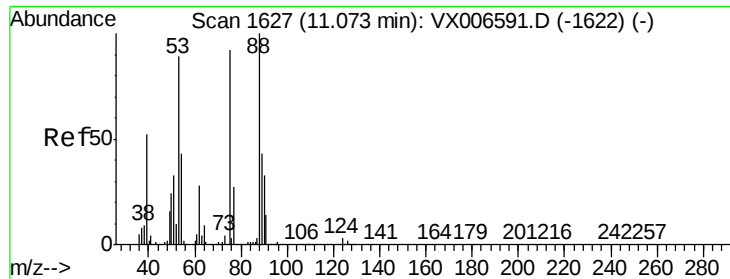
Delta R.T. -0.16 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

Tgt Ion:	75	Resp:	203300
Ion	Ratio	Lower	Upper
75	100		
77	1.4	18.5	55.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 70.880 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006931.D

Acq: 07 Jan 2019 13:15

Instrument :

MSVOA_X

ClientSampleId :

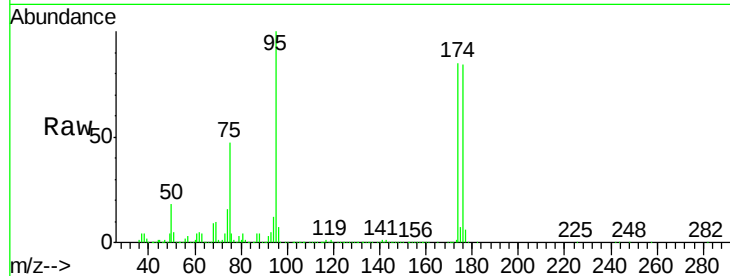
Tot Ion: 75 Resp: 203300

Ion Ratio Lower Upper

75 100

53 0.5 79.7 119.5#

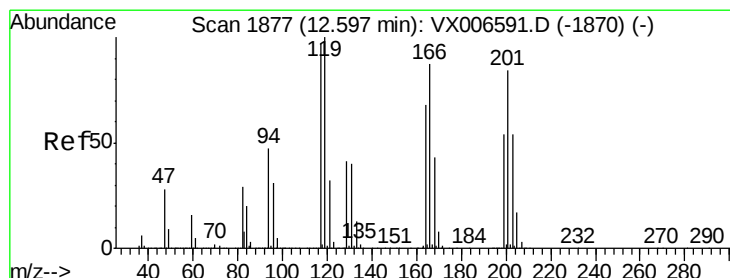
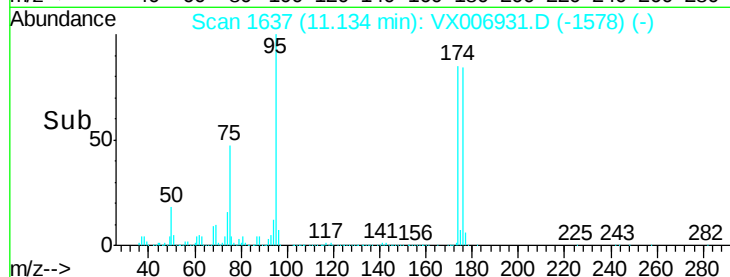
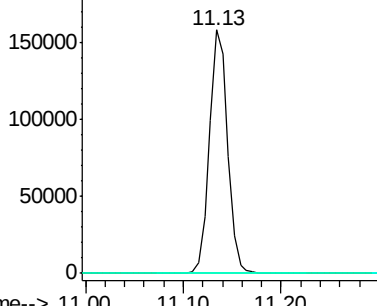
89 0.1 38.0 57.0#



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



#90

Hexachloroethane

Concen: 3.306 ug/l

RT: 12.64 min Scan# 1884

Delta R.T. 0.04 min

Lab File: VX006931.D

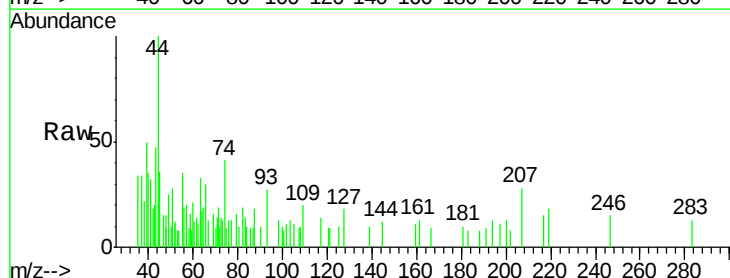
Acq: 07 Jan 2019 13:15

Tgt Ion: 117 Resp: 59

Ion Ratio Lower Upper

117 100

201 86.4 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

