

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010719\
 Data File : VX006930.D
 Acq On : 07 Jan 2019 12:48
 Operator : JC/MD
 Sample : K1057-01DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 08 06:32:20 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	622676	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	940675	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	872836	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	432008	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	323918	48.27	ug/l	0.00
Spiked Amount			Recovery	=	96.54%	
35) Dibromofluoromethane	5.50	113	292284	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	8.71	98	1115574	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
62) 4-Bromofluorobenzene	11.13	95	404225	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	

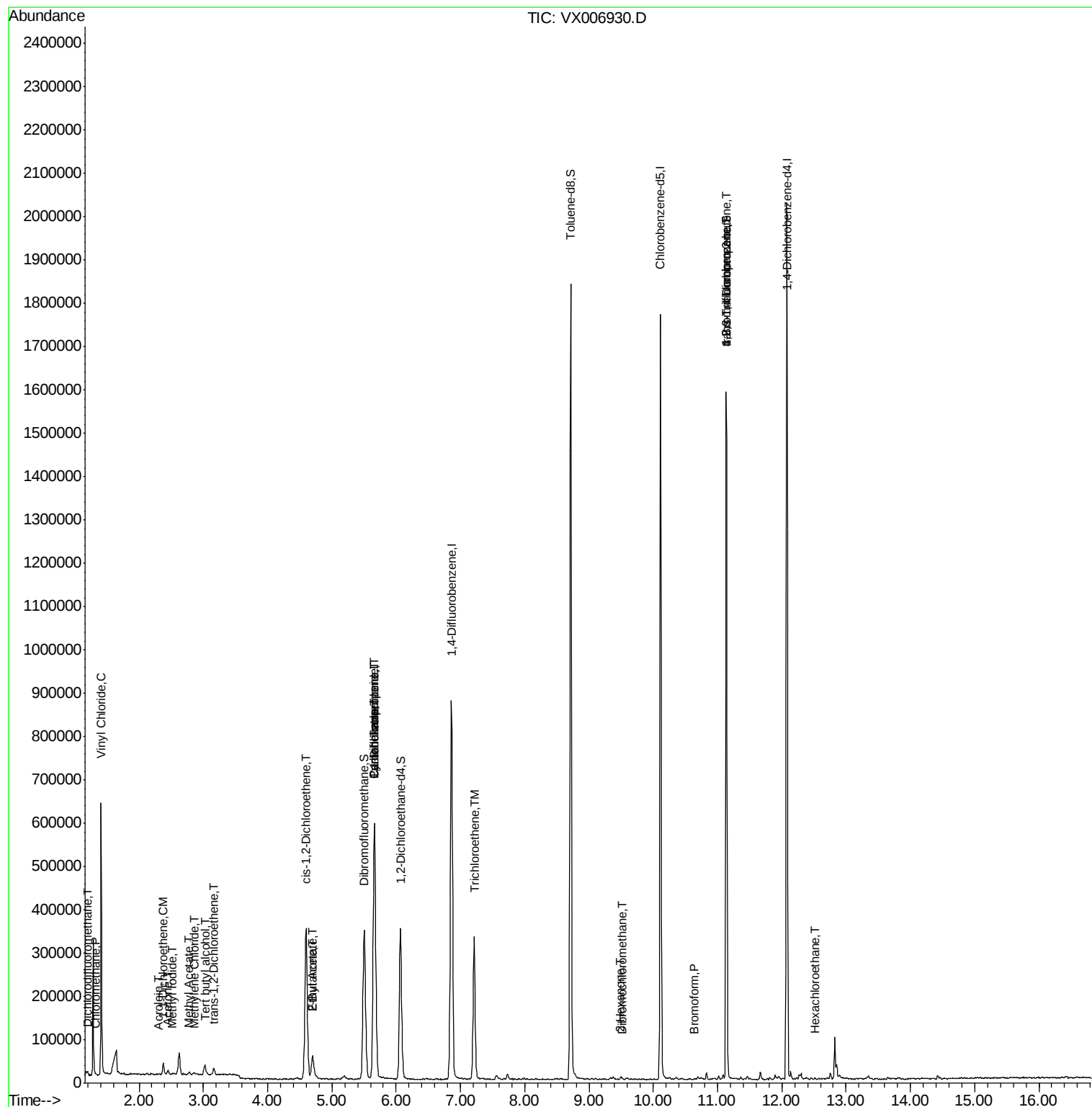
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	5264	0.924	ug/l	97
3) Chloromethane	1.33	50	1634	0.266	ug/l #	49
4) Vinyl Chloride	1.41	62	380468	59.360	ug/l	99
5) Bromomethane	1.64	94	3308	Below Cal		94
10) Methyl Iodide	2.52	142	1919	0.228	ug/l #	71
11) Tert butyl alcohol	3.03	59	13066	8.724	ug/l #	81
12) 1,1-Dichloroethene	2.37	96	8966	1.612	ug/l	96
13) Acrolein	2.31	56	579	0.573	ug/l #	38
16) Acetone	2.45	43	10002	3.244	ug/l #	84
18) Methyl Acetate	2.78	43	5046	0.557	ug/l #	84
20) Methylene Chloride	2.85	84	2426	0.381	ug/l #	79
21) trans-1,2-Dichloroethene	3.17	96	6768	1.098	ug/l	96
25) 2-Butanone	4.70	43	93121	21.472	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	234994	34.552	ug/l	92
28) Bromochloromethane	5.03	49	128	Below Cal	#	24
31) Cyclohexane	5.65	56	10548	1.135	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	37837	4.857	ug/l #	50
37) Ethyl Acetate	4.70	43	93121	11.484	ug/l #	67
38) Carbon Tetrachloride	5.67	117	54934	7.255	ug/l #	17
44) Trichloroethene	7.21	130	133816	18.669	ug/l	97
49) 1,4-Dioxane	7.77	88	145	Below Cal	#	27
59) 2-Hexanone	9.49	43	3943	0.656	ug/l	86
60) Dibromochloromethane	9.52	129	105	2.339	ug/l	90
71) Bromoform	10.63	173	153	4.487	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	191598	23.865	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	191598	70.712	ug/l #	10
90) Hexachloroethane	12.52	117	196	3.338	ug/l #	6

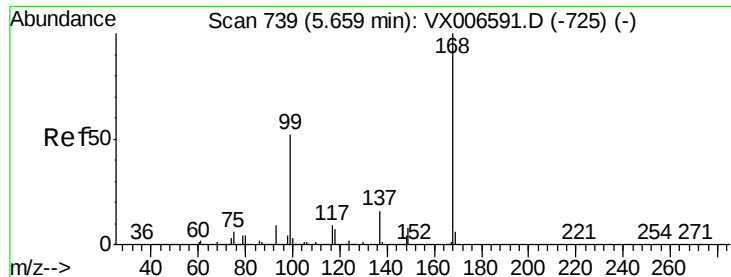
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010719\
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Acq On : 07 Jan 2019 12:48
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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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

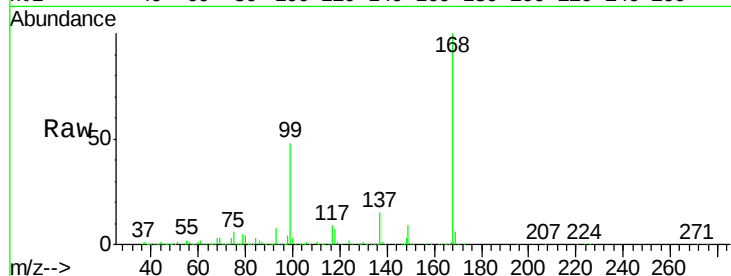
ClientSampleId :

Tot Ion:168 Resp: 622676

Ion Ratio Lower Upper

168 100

99 47.6 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

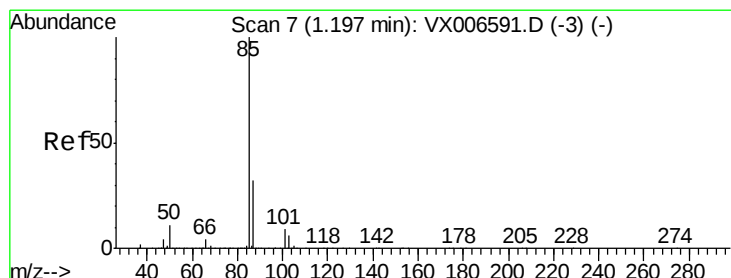
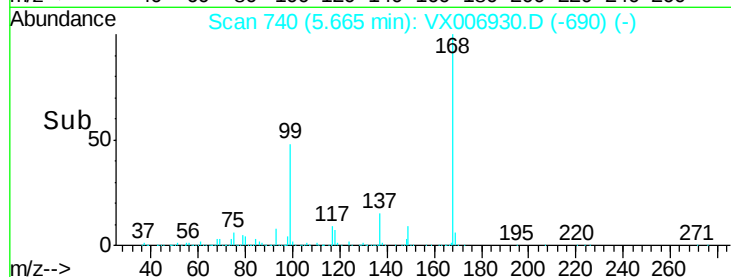
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.924 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX006930.D

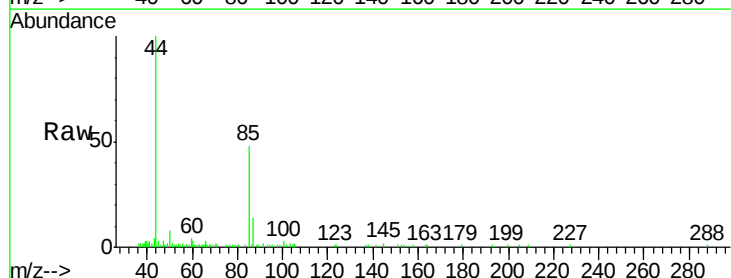
Acq: 07 Jan 2019 12:48

Tgt Ion: 85 Resp: 5264

Ion Ratio Lower Upper

85 100

87 30.2 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

5000

4000

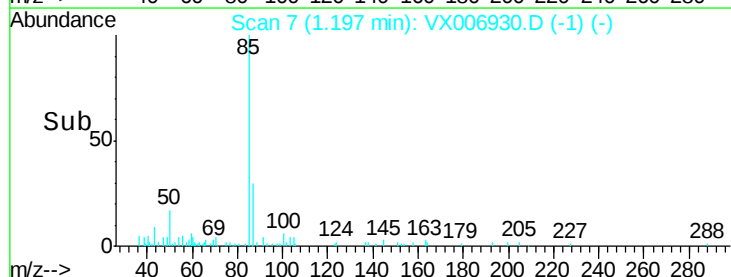
3000

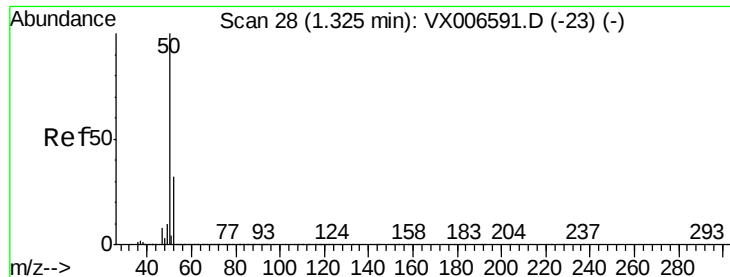
2000

1000

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 0.266 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

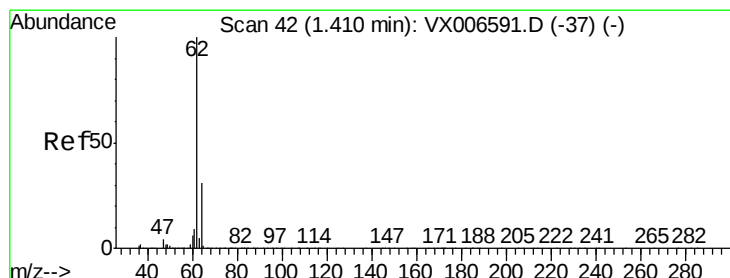
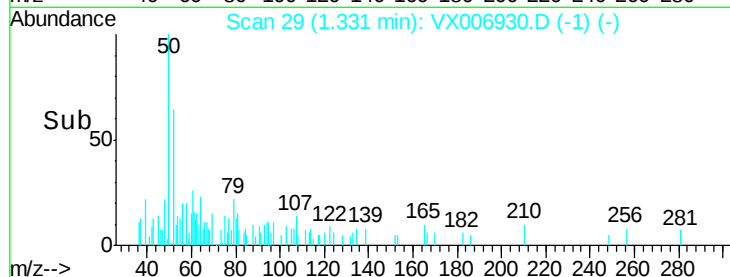
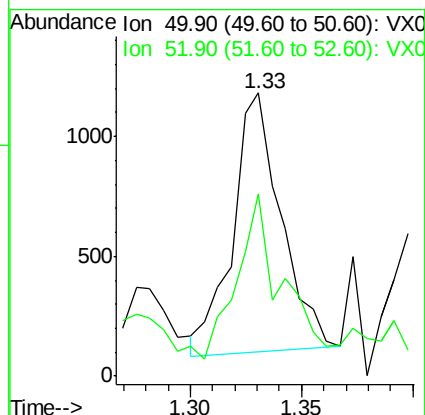
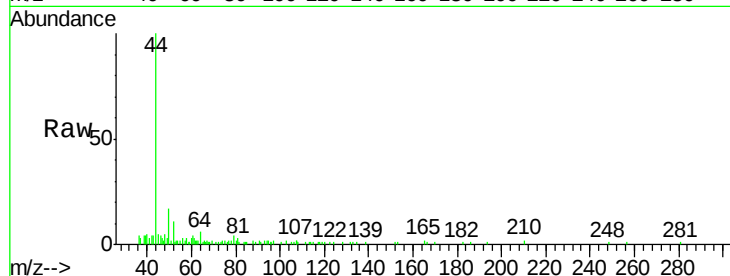
ClientSampleId :

Tot Ion: 50 Resp: 1634

Ion Ratio Lower Upper

50 100

52 60.2 25.4 38.2#



#4

Vinyl Chloride

Concen: 59.360 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX006930.D

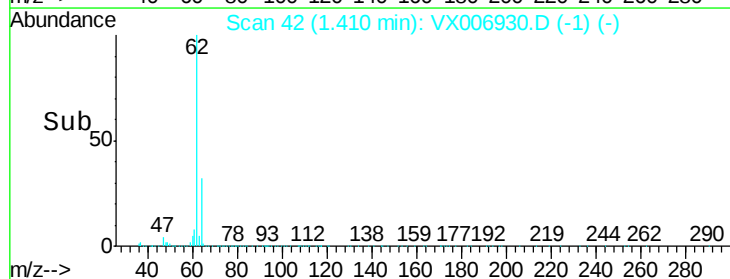
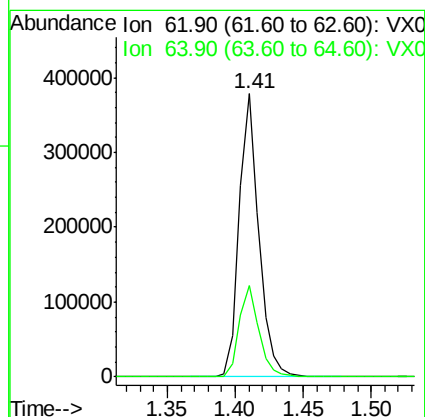
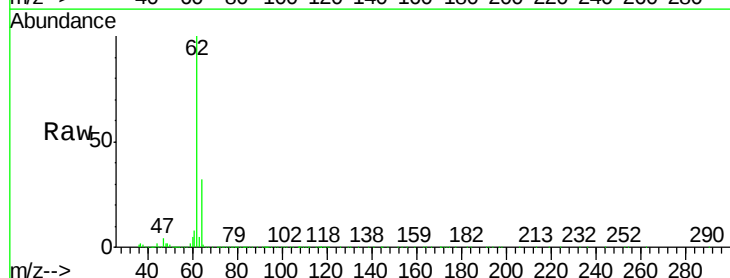
Acq: 07 Jan 2019 12:48

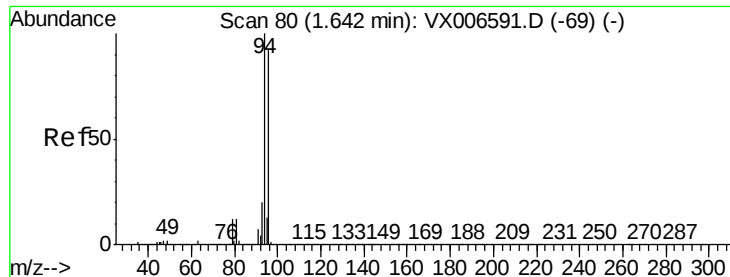
Tgt Ion: 62 Resp: 380468

Ion Ratio Lower Upper

62 100

64 32.2 25.1 37.7





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

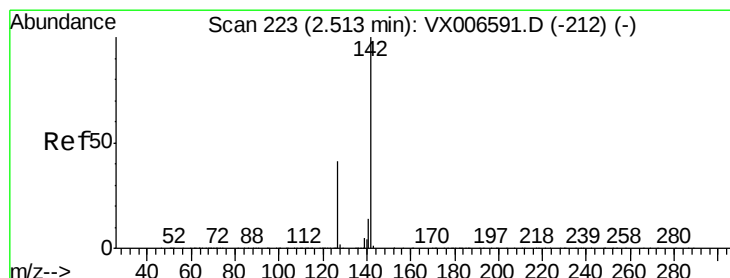
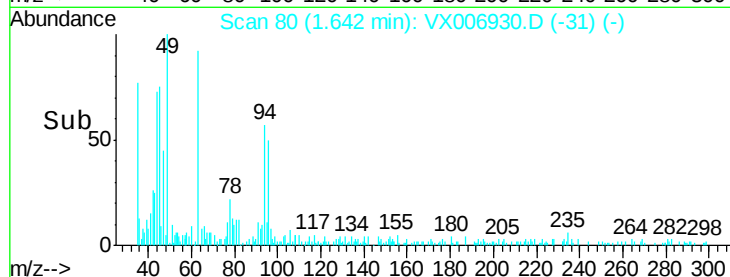
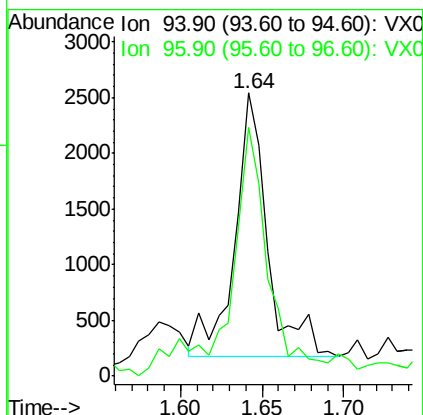
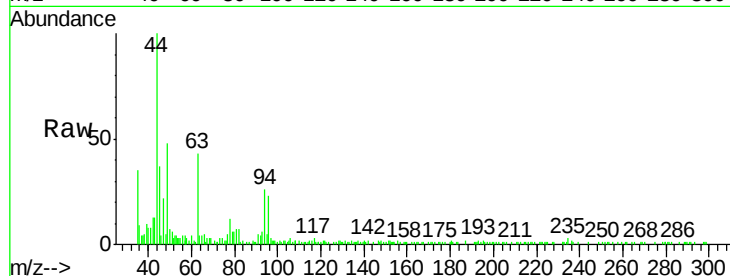
ClientSampled :

Tot Ion: 94 Resp: 3308

Ion Ratio Lower Upper

94 100

96 86.1 73.4 110.2



#10

Methyl Iodide

Concen: 0.228 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

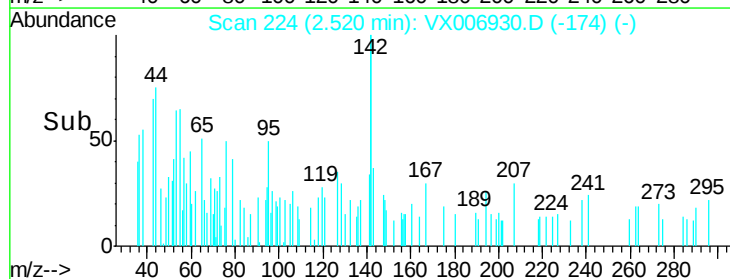
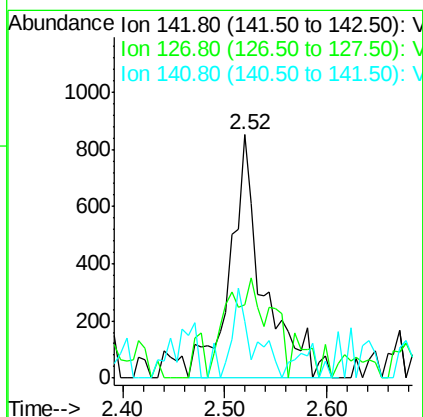
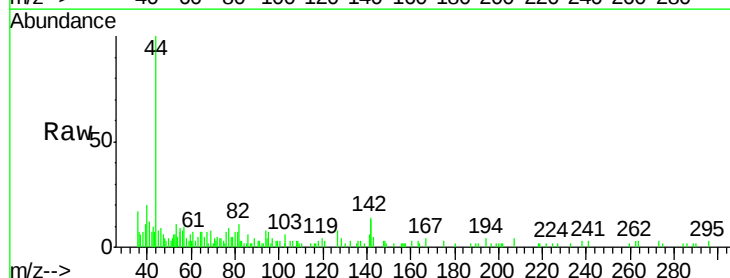
Tgt Ion: 142 Resp: 1919

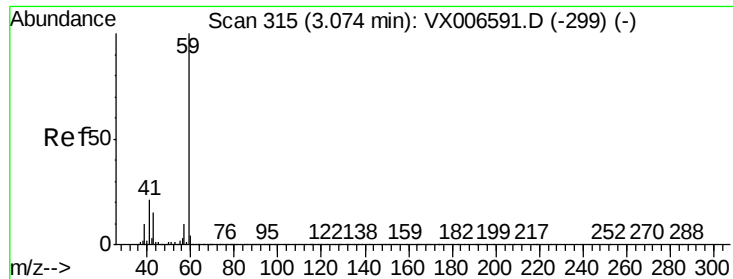
Ion Ratio Lower Upper

142 100

127 20.4 33.9 50.9#

141 19.1 11.4 17.0#



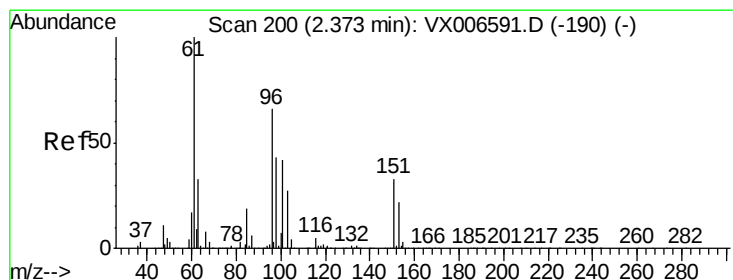
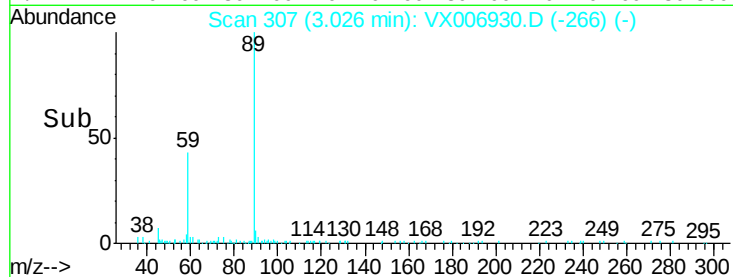
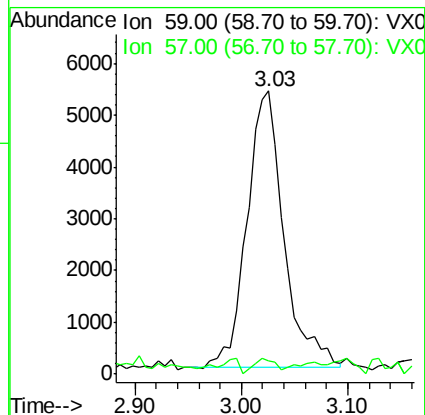
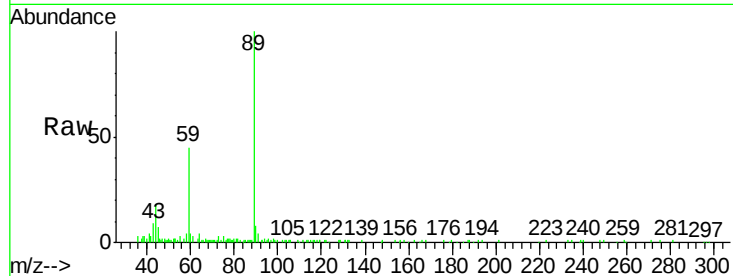


#11

Tert butyl alcohol
Concen: 8.724 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

Instrument :
MSVOA_X
ClientSampleId :

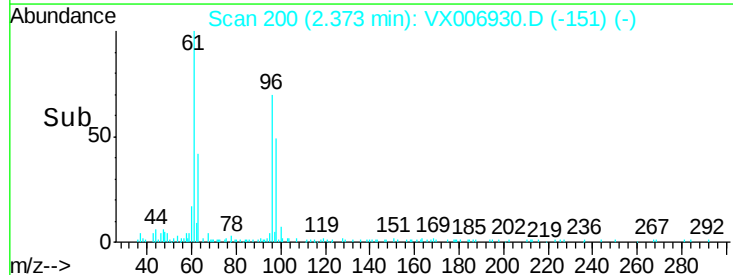
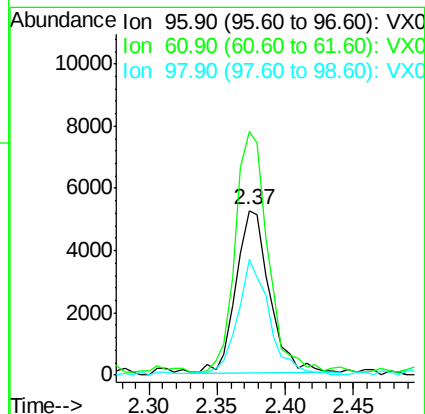
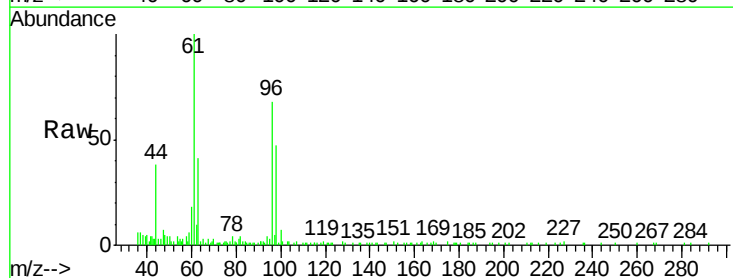
Tot Ion: 59 Resp: 13066
Ion Ratio Lower Upper
59 100
57 3.4 8.5 12.7#

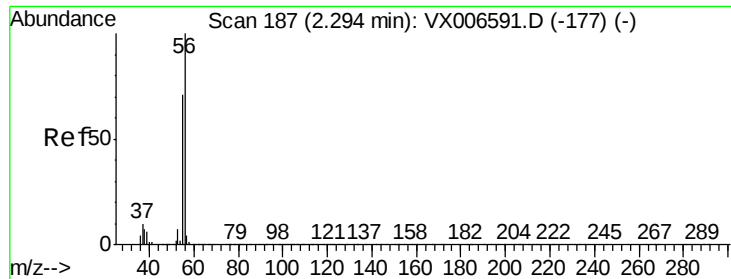


#12

1,1-Dichloroethene
Concen: 1.612 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

Tgt Ion: 96 Resp: 8966
Ion Ratio Lower Upper
96 100
61 148.7 121.4 182.2
98 71.3 51.9 77.9





#13

Acrolein

Concen: 0.573 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

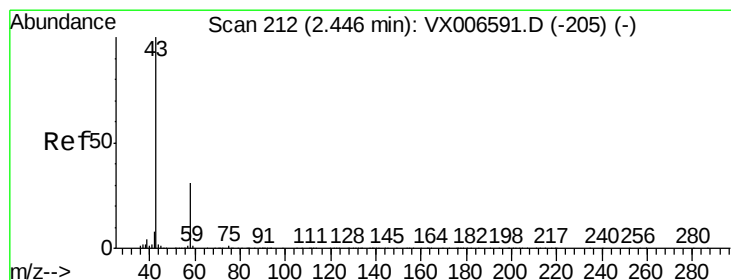
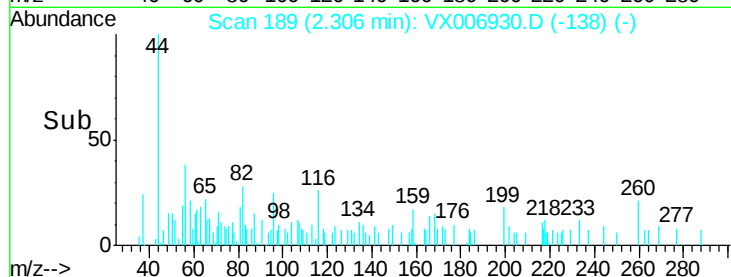
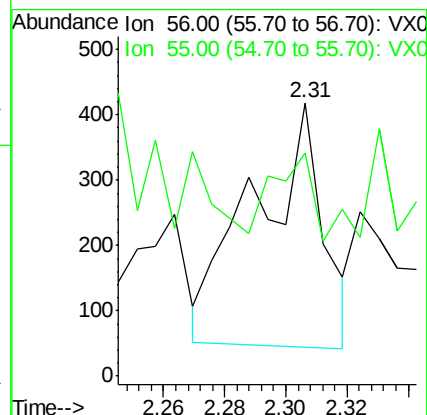
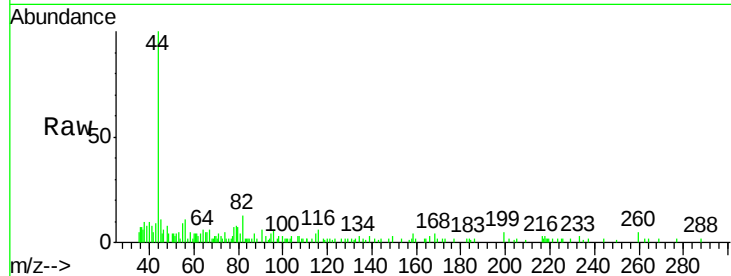
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 579

Ion Ratio Lower Upper

56 100

55 20.6 58.2 87.4#



#16

Acetone

Concen: 3.244 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX006930.D

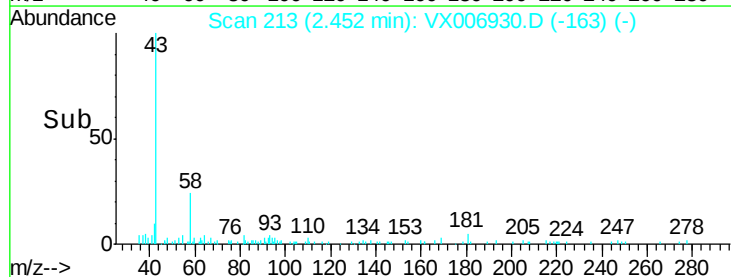
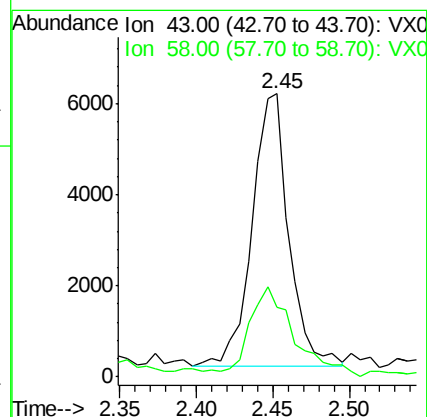
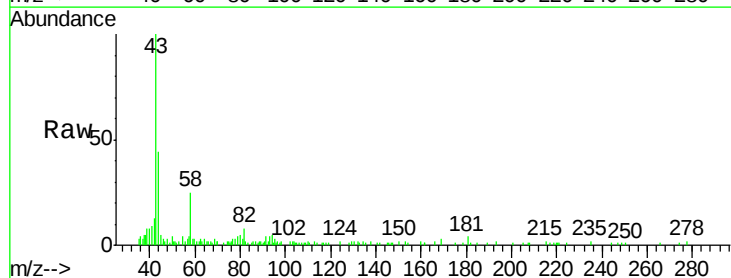
Acq: 07 Jan 2019 12:48

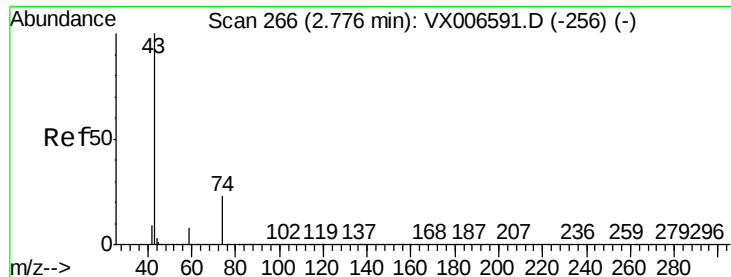
Tgt Ion: 43 Resp: 10002

Ion Ratio Lower Upper

43 100

58 22.7 25.0 37.6#

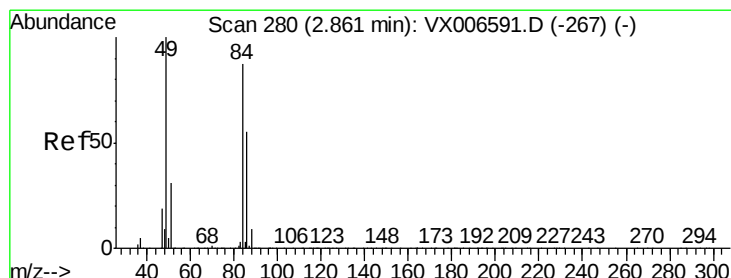
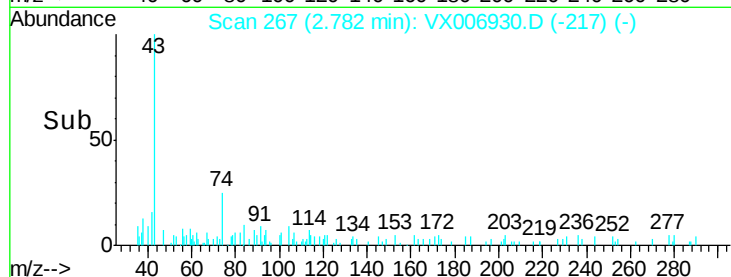
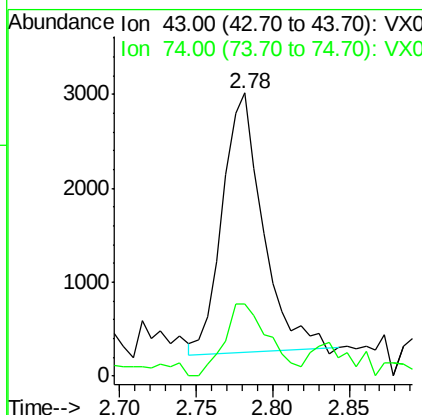
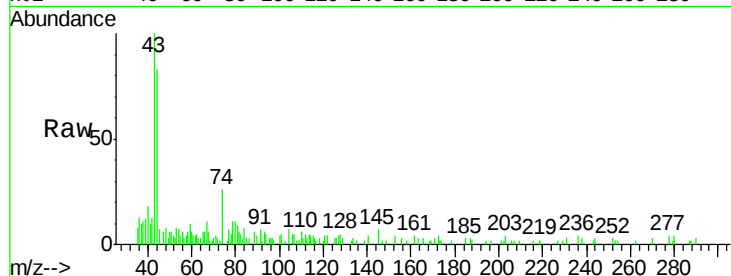




#18
Methyl Acetate
Concen: 0.557 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

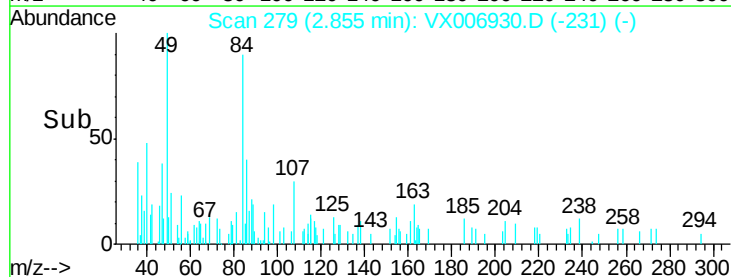
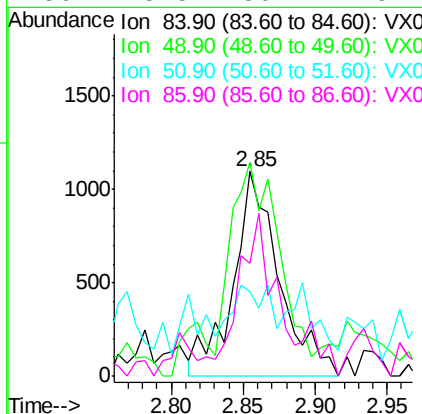
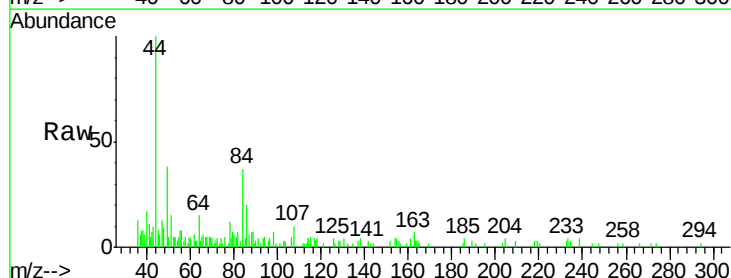
Instrument :
MSVOA_X
ClientSampleId :

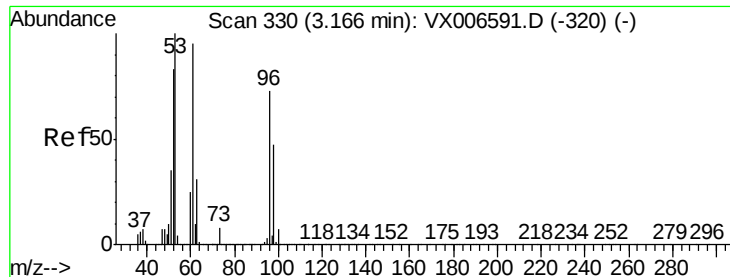
Tot Ion: 43 Resp: 5046
Ion Ratio Lower Upper
43 100
74 31.1 18.6 28.0#



#20
Methylene Chloride
Concen: 0.381 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

Tgt Ion: 84 Resp: 2426
Ion Ratio Lower Upper
84 100
49 90.1 91.8 137.6#
51 29.0 28.5 42.7
86 43.5 50.2 75.2#





#21

trans-1,2-Dichloroethene

Concen: 1.098 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

ClientSampled :

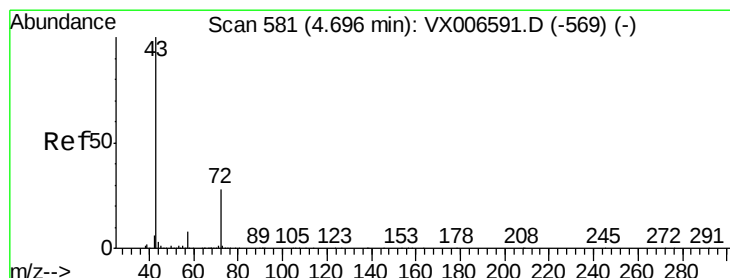
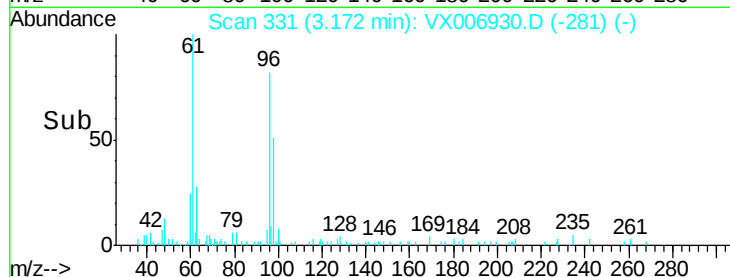
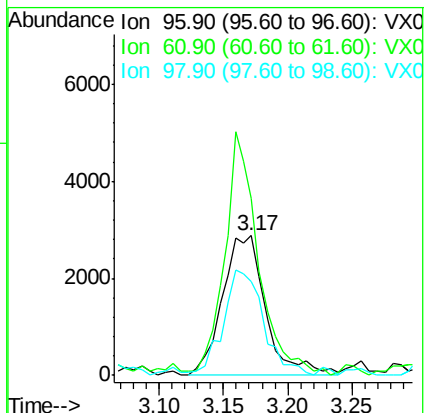
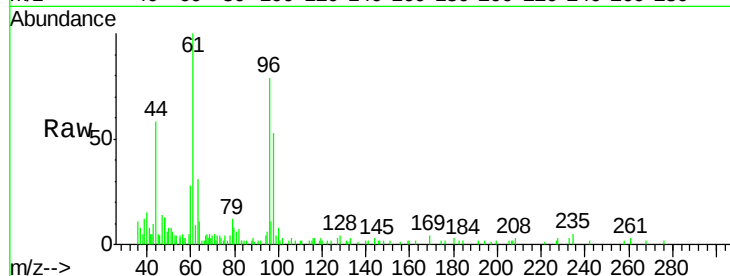
Tot Ion: 96 Resp: 6768

Ion Ratio Lower Upper

96 100

61 124.6 103.7 155.5

98 66.7 51.0 76.6



#25

2-Butanone

Concen: 21.472 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.00 min

Lab File: VX006930.D

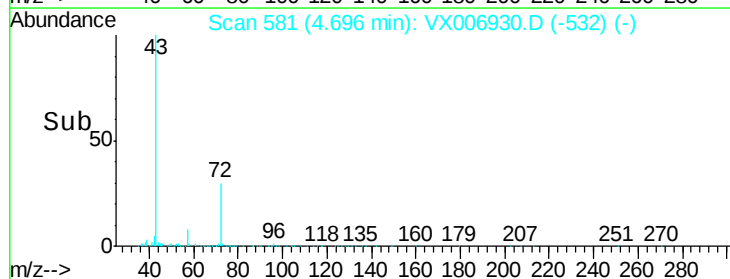
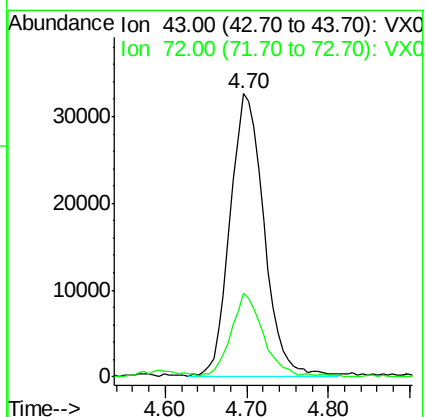
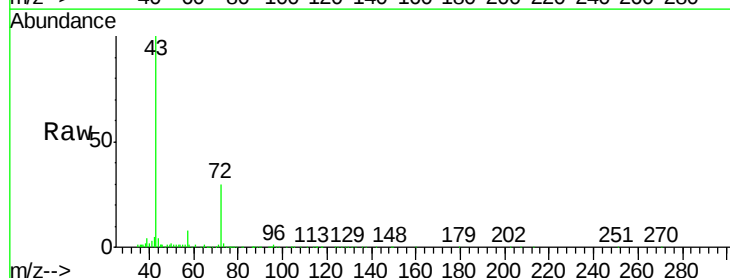
Acq: 07 Jan 2019 12:48

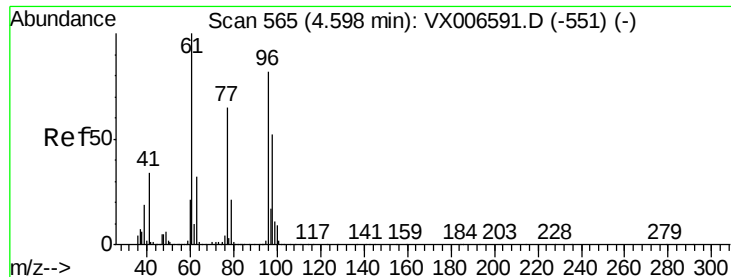
Tgt Ion: 43 Resp: 93121

Ion Ratio Lower Upper

43 100

72 29.4 22.4 33.6



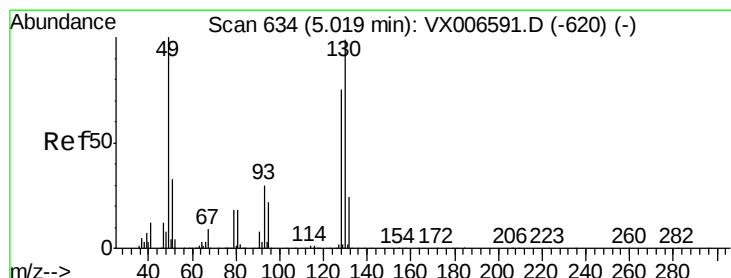
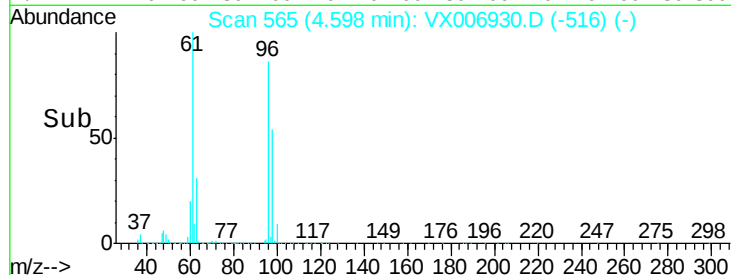
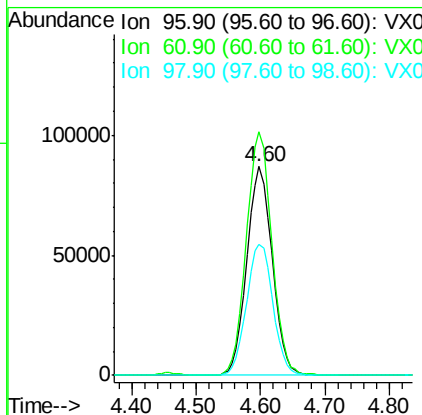
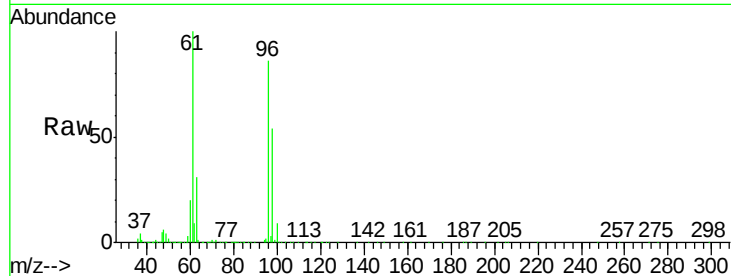


#27

cis-1,2-Dichloroethene
Concen: 34.552 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

Instrument :
MSVOA_X
ClientSampleId :

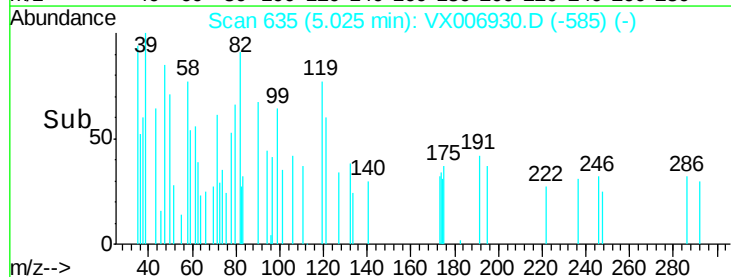
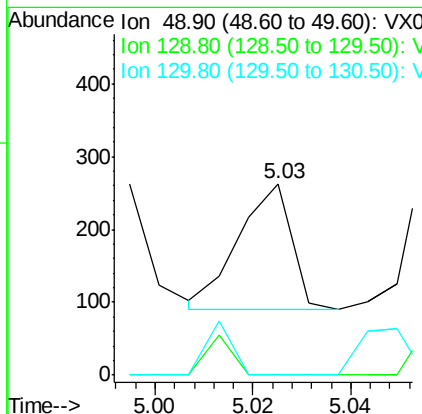
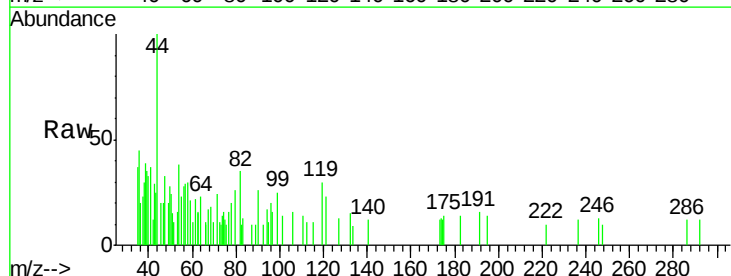
Tot Ion	Ratio	Lower	Upper
96	100		
61	116.0	0.0	258.6
98	65.2	0.0	132.0

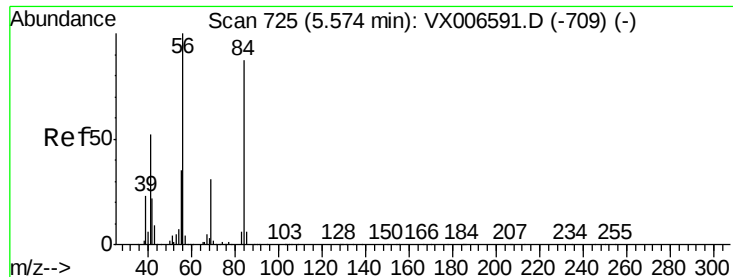


#28

Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

Tgt Ion	Ratio	Lower	Upper
49	100		
129	15.6	0.0	5.4#
130	21.1	77.7	116.5#

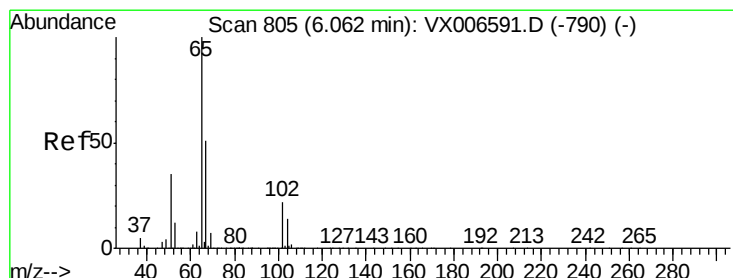
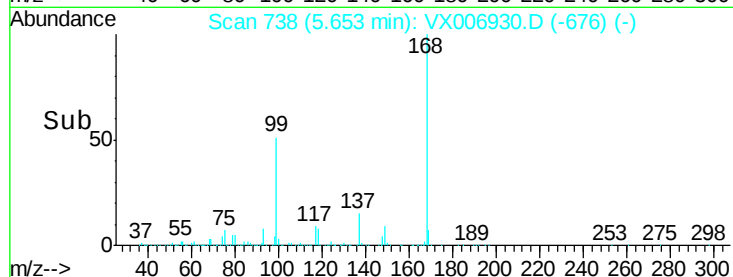
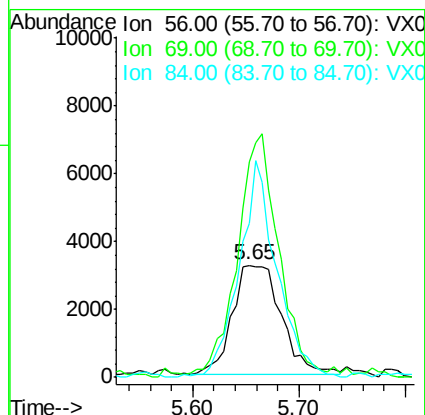
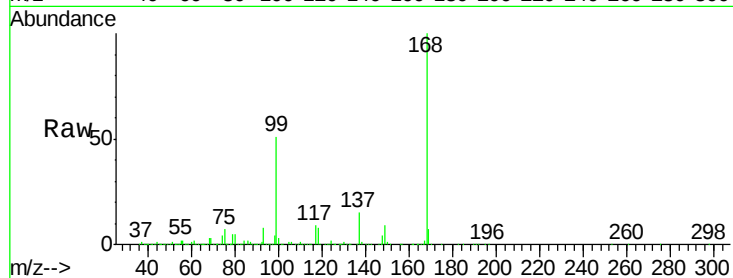




#31
Cyclohexane
Concen: 1.135 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

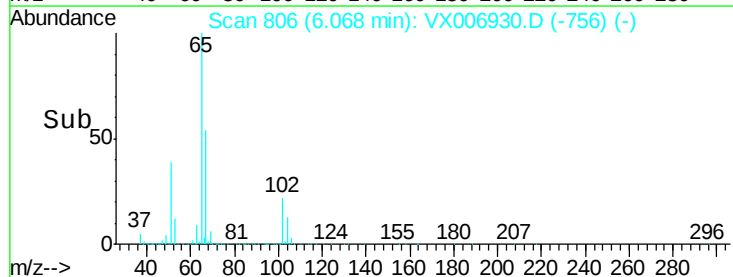
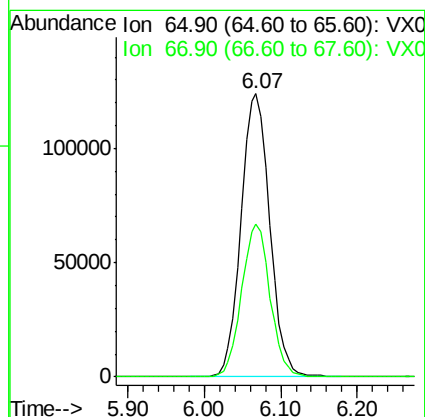
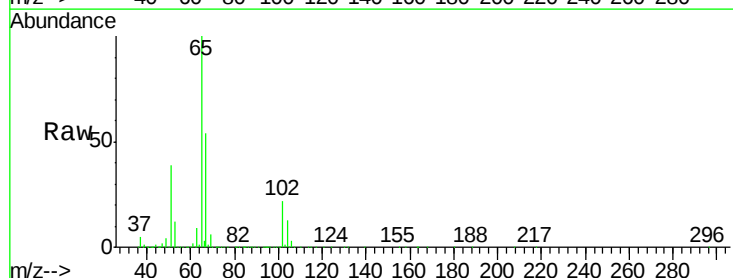
Instrument :
MSVOA_X
ClientSampled :

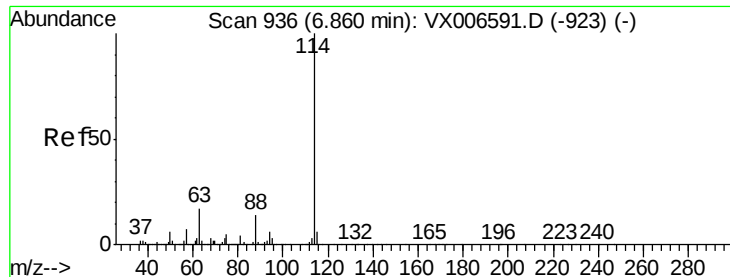
Tot Ion: 56 Resp: 10548
Ion Ratio Lower Upper
56 100
69 191.9 24.4 36.6#
84 140.5 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 48.267 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

Tgt Ion: 65 Resp: 323918
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: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

ClientSampleId :

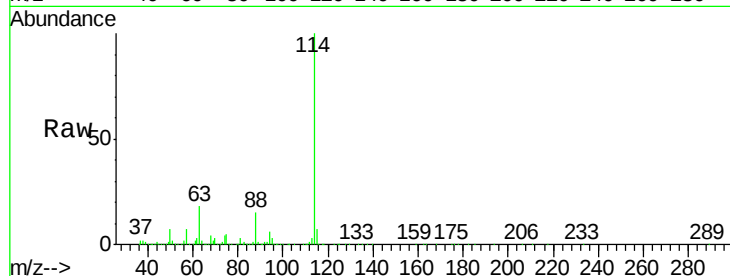
Tot Ion:114 Resp: 940675

Ion Ratio Lower Upper

114 100

63 18.3 0.0 34.8

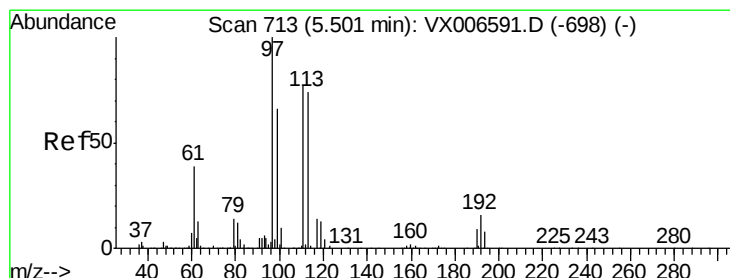
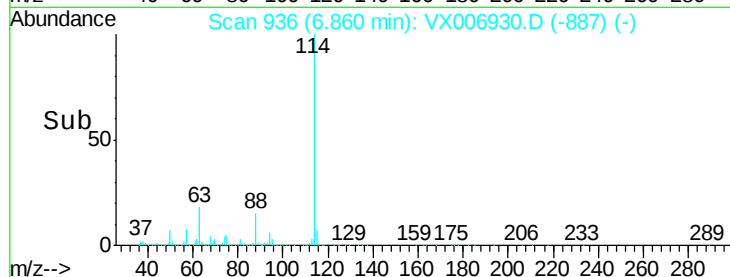
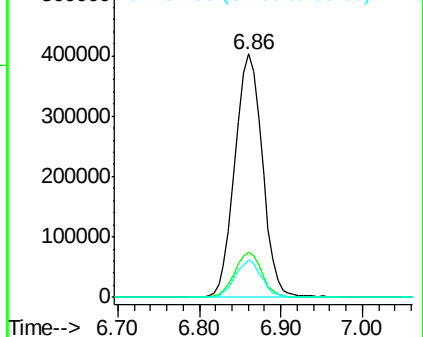
88 15.3 0.0 28.8



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: 49.134 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

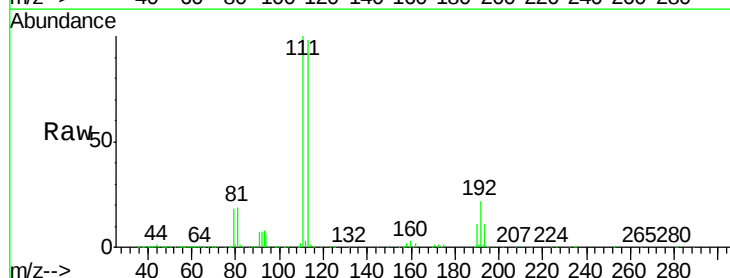
Tgt Ion:113 Resp: 292284

Ion Ratio Lower Upper

113 100

111 100.9 81.6 122.4

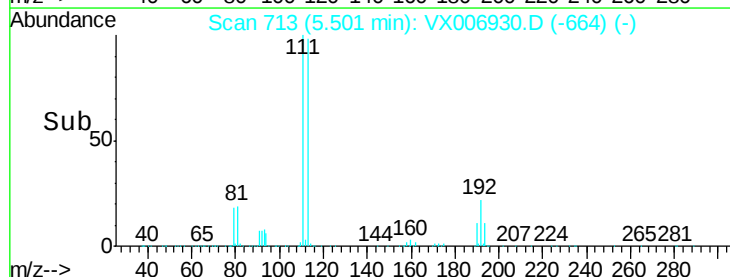
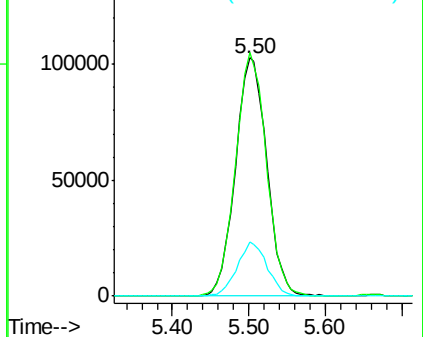
192 21.9 16.7 25.1

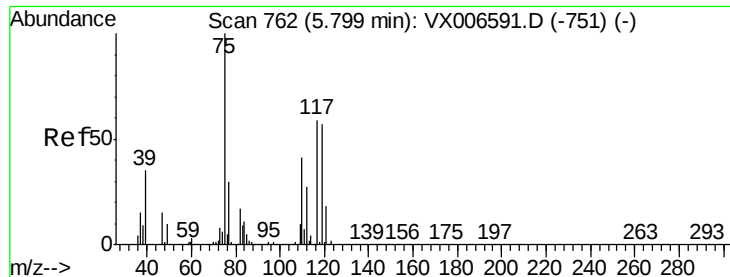


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

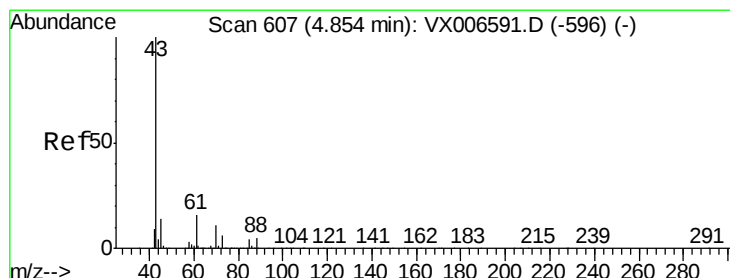
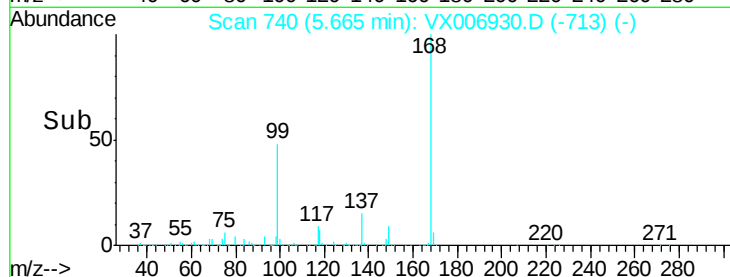
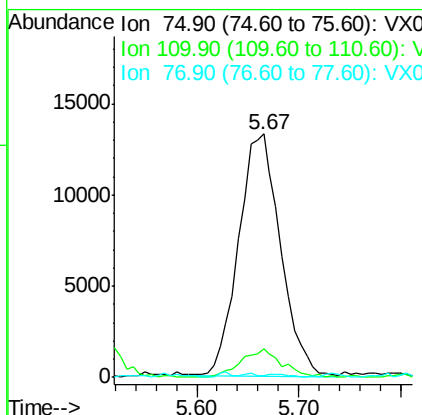
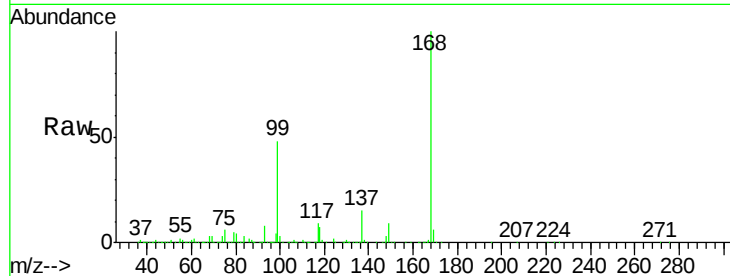




#36
 1,1-Dichloropropene
 Concen: 4.857 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006930.D
 Acq: 07 Jan 2019 12:48

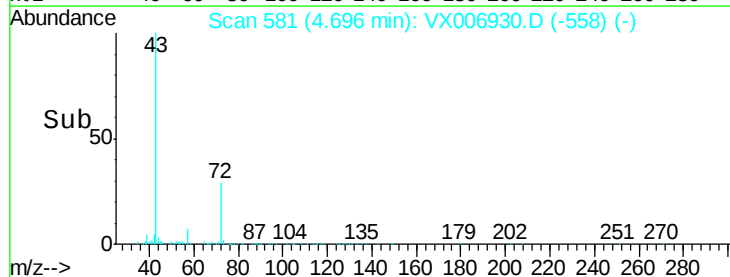
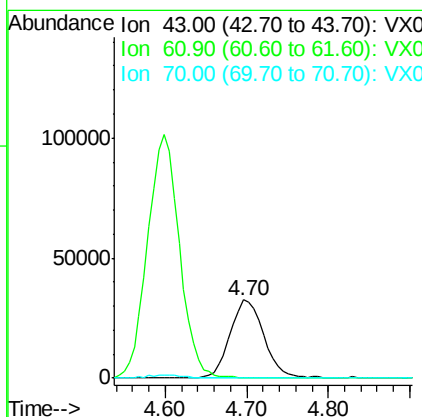
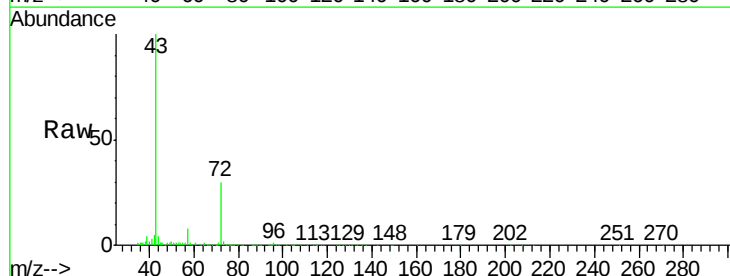
Instrument :
 MSVOA_X
 ClientSampleId :

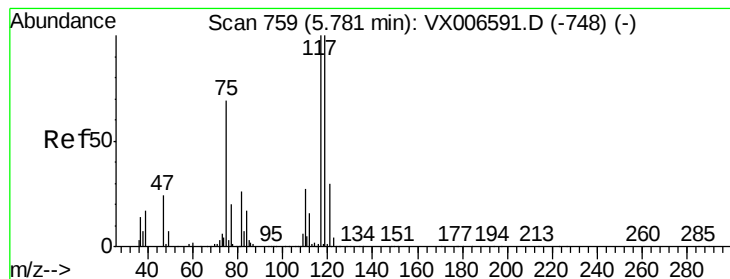
Tot Ion: 75 Resp: 37837
 Ion Ratio Lower Upper
 75 100
 110 11.6 20.2 60.5#
 77 0.7 24.8 37.2#



#37
 Ethyl Acetate
 Concen: 11.484 ug/l
 RT: 4.70 min Scan# 581
 Delta R.T. -0.16 min
 Lab File: VX006930.D
 Acq: 07 Jan 2019 12:48

Tgt Ion: 43 Resp: 93121
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.9 17.9#
 70 0.5 9.7 14.5#





#38

Carbon Tetrachloride

Concen: 7.255 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

ClientSampleId :

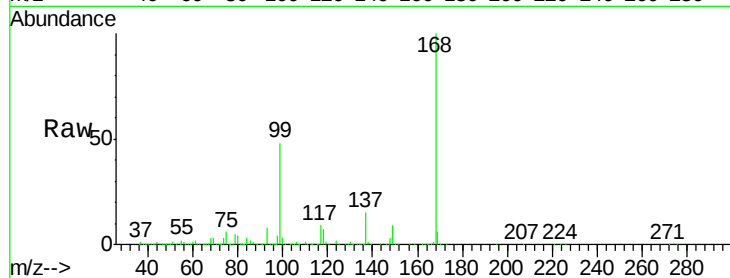
Tot Ion:117 Resp: 54934

Ion Ratio Lower Upper

117 100

119 7.8 79.4 119.2#

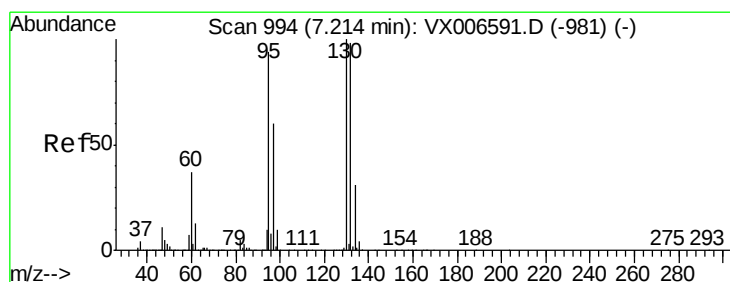
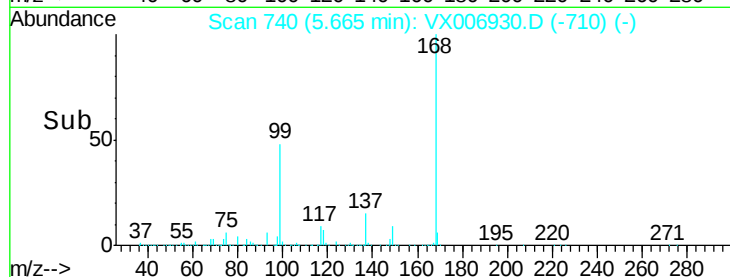
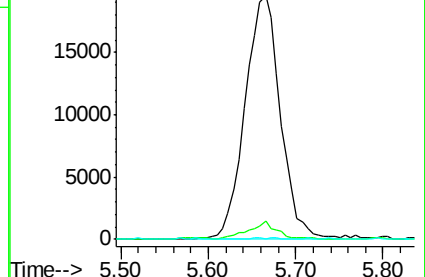
121 0.0 24.0 36.0#



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: 18.669 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006930.D

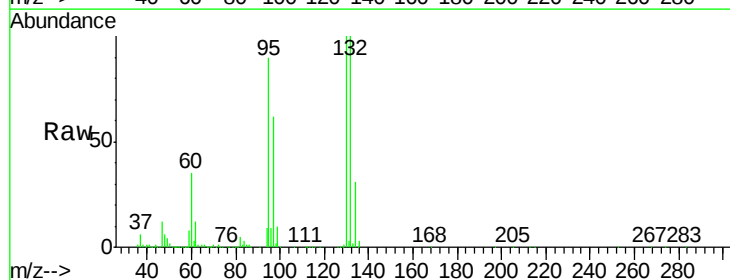
Acq: 07 Jan 2019 12:48

Tgt Ion:130 Resp: 133816

Ion Ratio Lower Upper

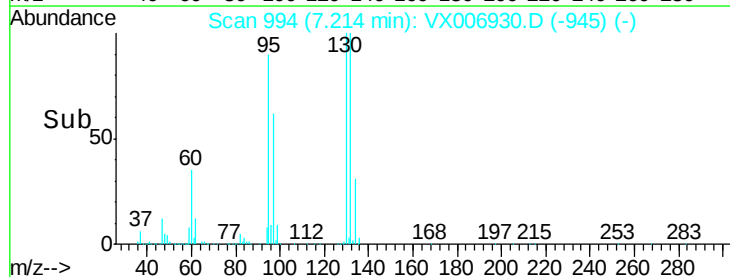
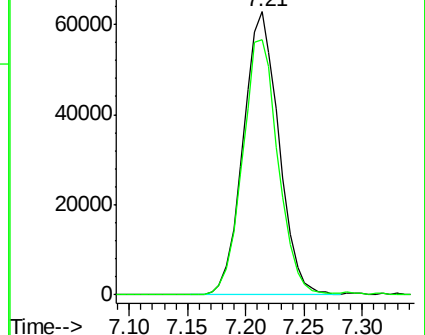
130 100

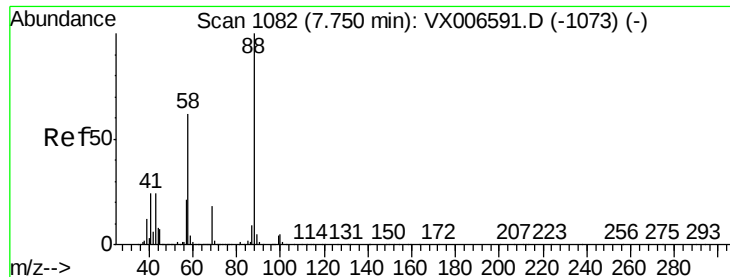
95 90.4 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

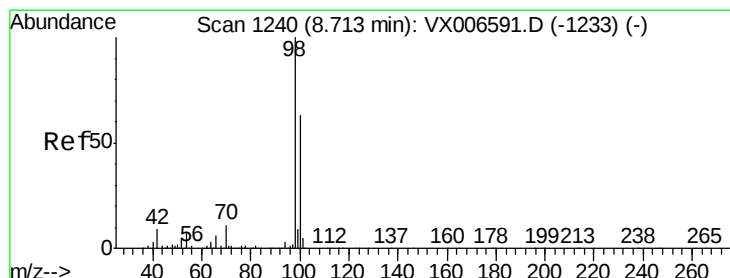
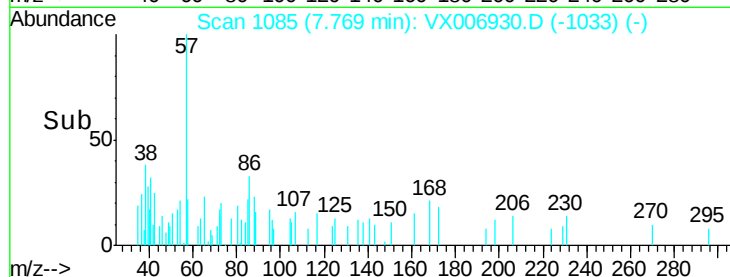
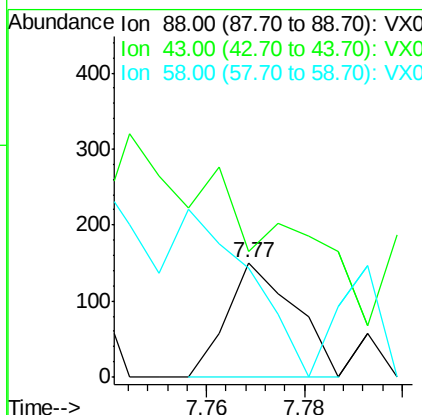
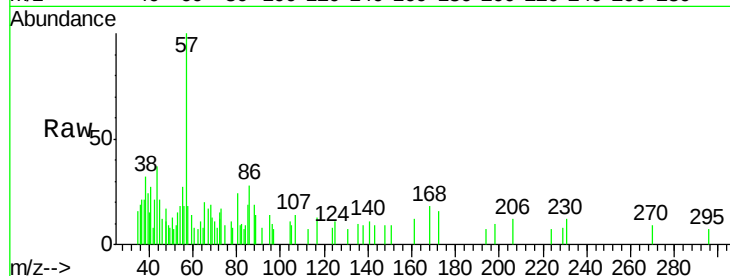
Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 145

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



#50

Toluene-d8

Concen: 49.743 ug/l

RT: 8.71 min Scan# 1240

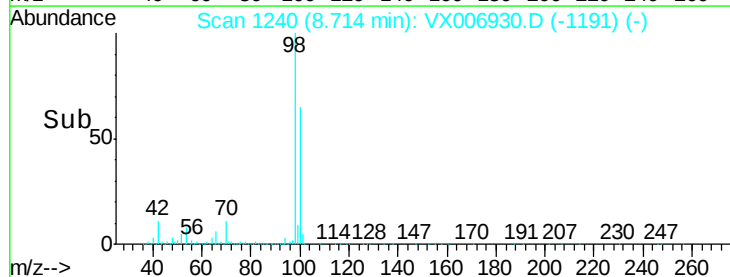
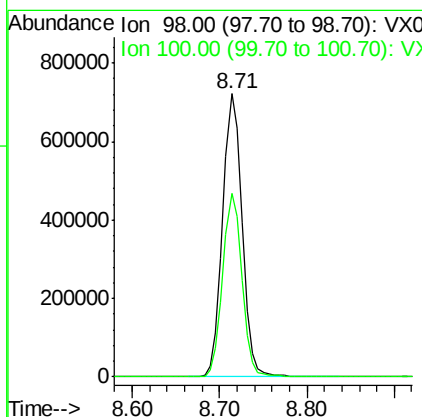
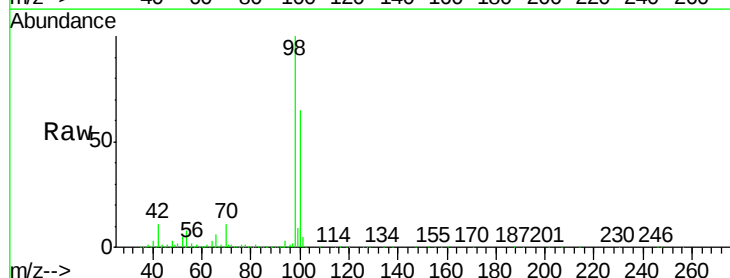
Delta R.T. 0.00 min

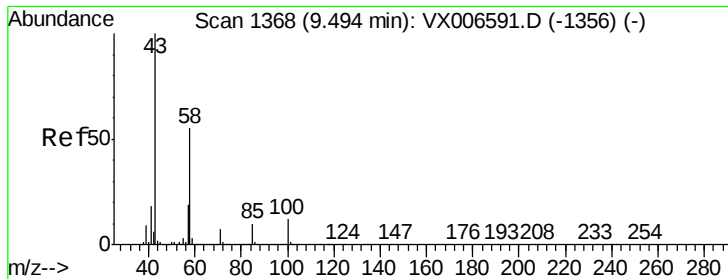
Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Tgt Ion: 98 Resp: 1115574

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.0	78.0

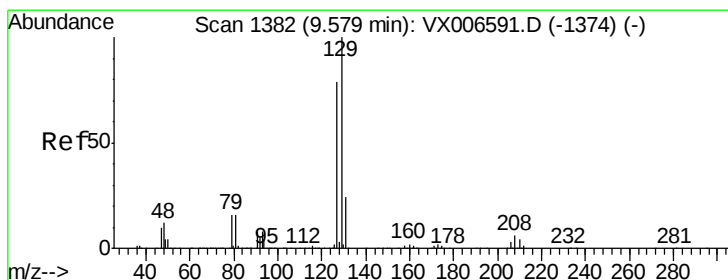
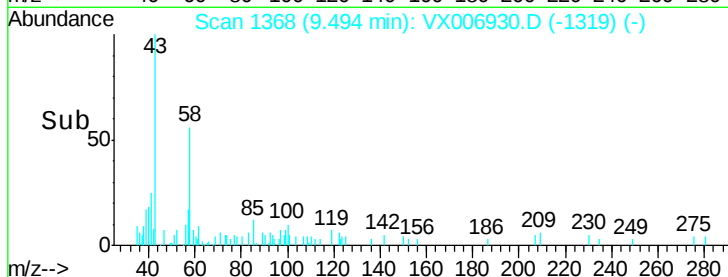
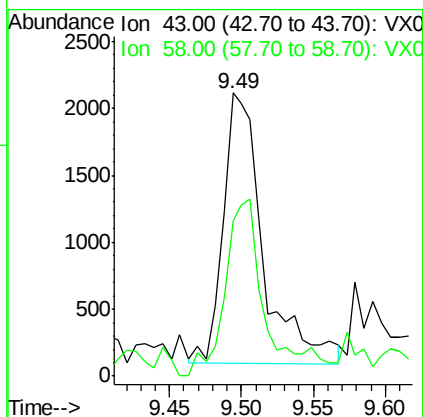
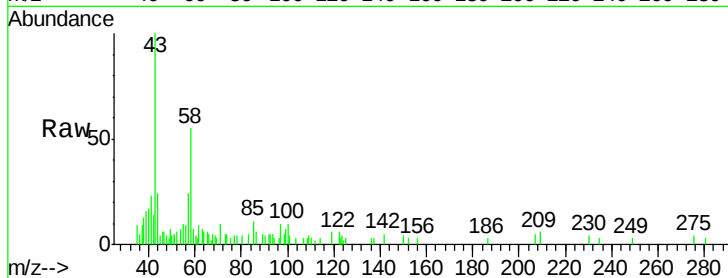




#59
2-Hexanone
Concen: 0.656 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

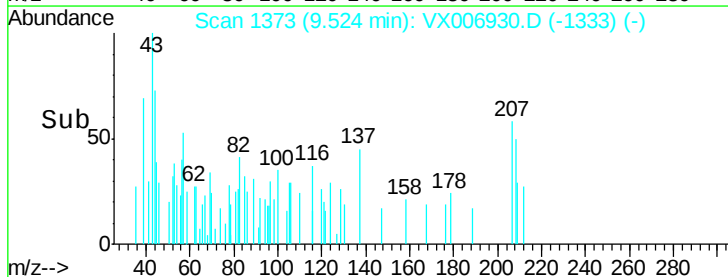
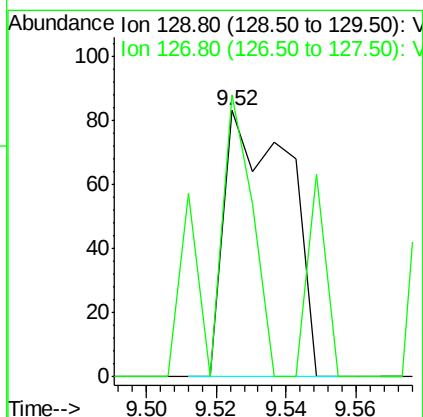
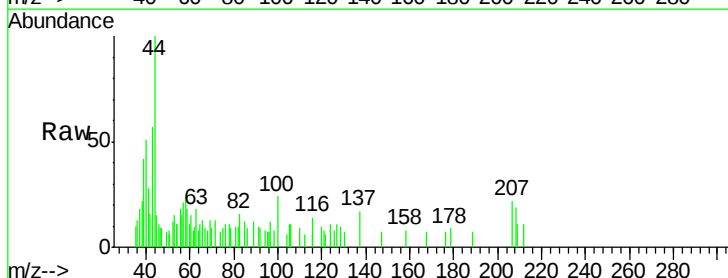
Instrument :
MSVOA_X
ClientSampled :

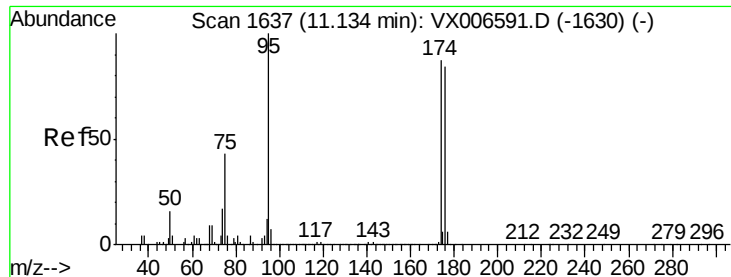
Tot Ion: 43 Resp: 3943
Ion Ratio Lower Upper
43 100
58 65.3 27.7 83.1



#60
Dibromochloromethane
Concen: 2.339 ug/l
RT: 9.52 min Scan# 1373
Delta R.T. -0.05 min
Lab File: VX006930.D
Acq: 07 Jan 2019 12:48

Tgt Ion: 129 Resp: 105
Ion Ratio Lower Upper
129 100
127 69.5 39.3 117.8





#62

4-Bromofluorobenzene

Concen: 49.214 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

ClientSampleId :

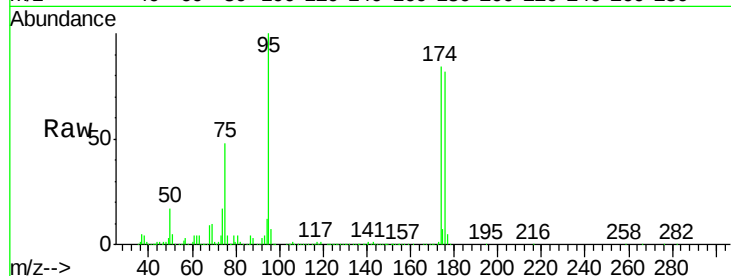
Tot Ion: 95 Resp: 404225

Ion Ratio Lower Upper

95 100

174 92.2 0.0 182.2

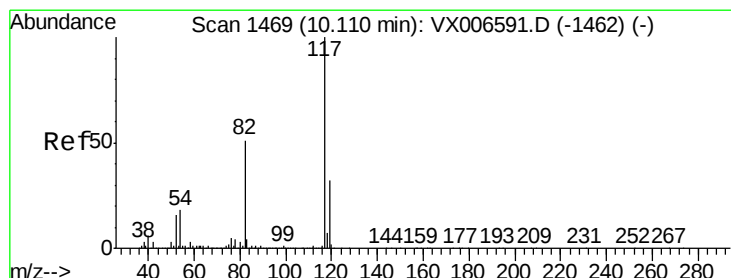
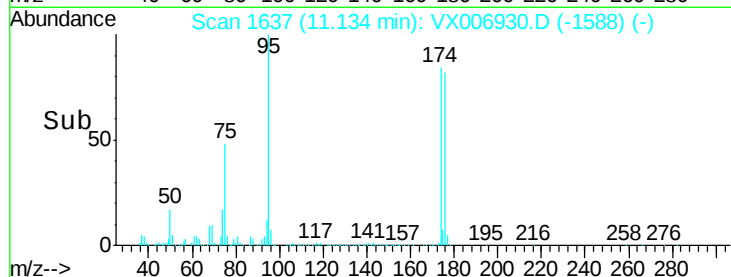
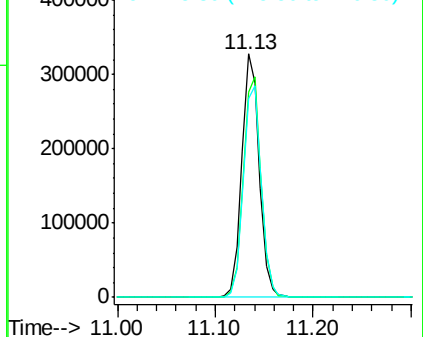
176 90.0 0.0 178.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

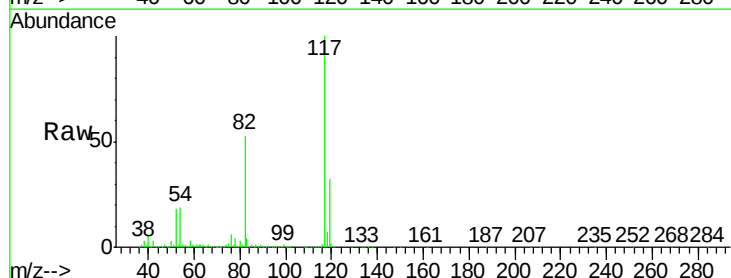
Tgt Ion: 117 Resp: 872836

Ion Ratio Lower Upper

117 100

82 53.2 41.0 61.6

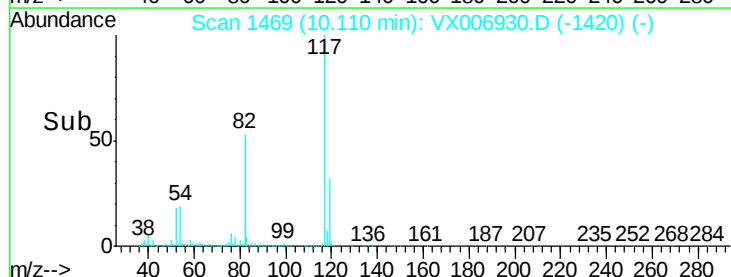
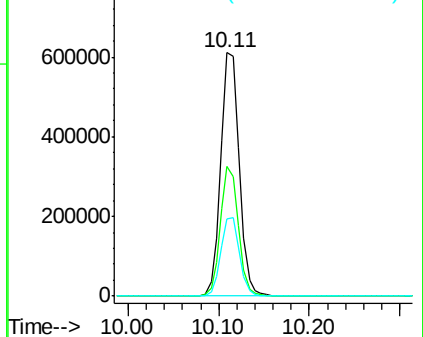
119 31.7 25.4 38.0

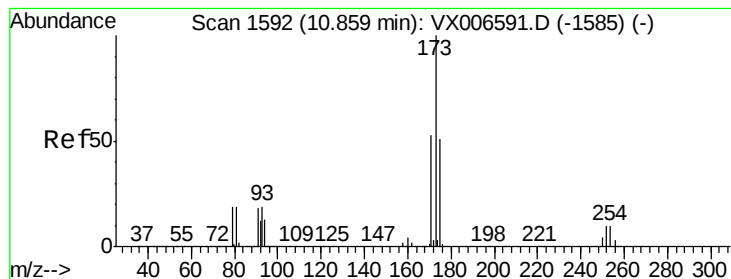


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 4.487 ug/l

RT: 10.63 min Scan# 1555

Delta R.T. -0.23 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

ClientSampleId :

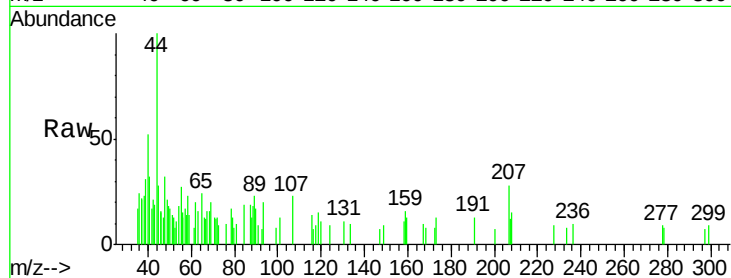
Tot Ion:173 Resp: 153

Ion Ratio Lower Upper

173 100

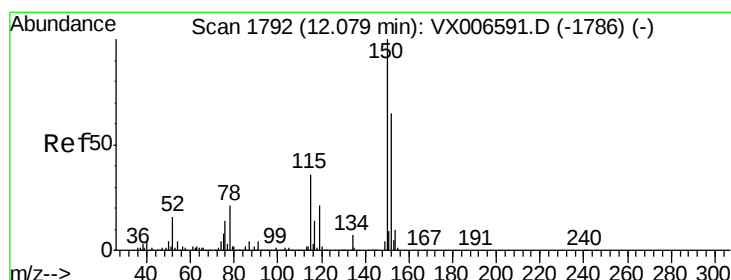
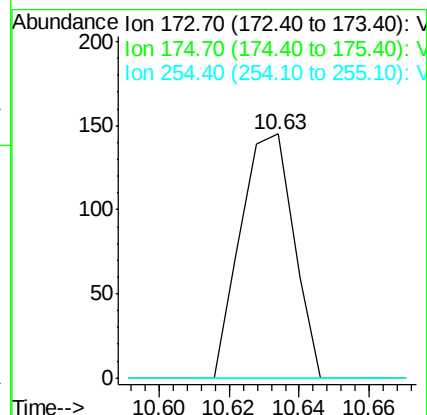
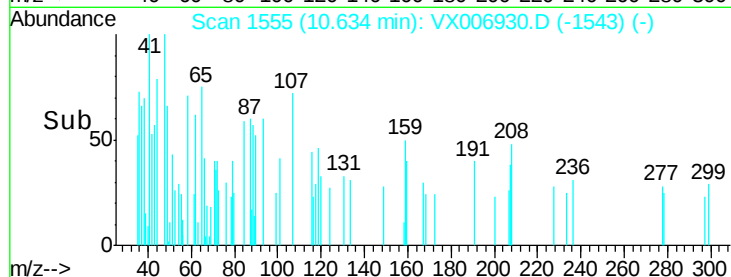
175 0.0 24.7 74.1#

254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

10.63



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

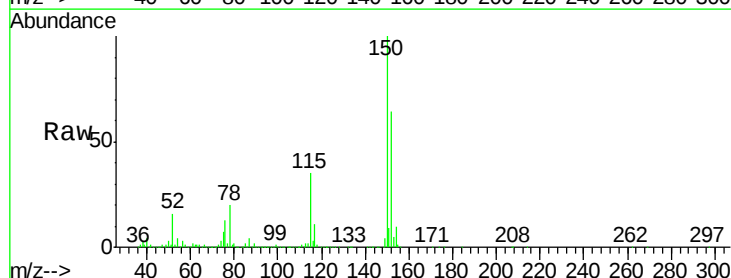
Tgt Ion:152 Resp: 432008

Ion Ratio Lower Upper

152 100

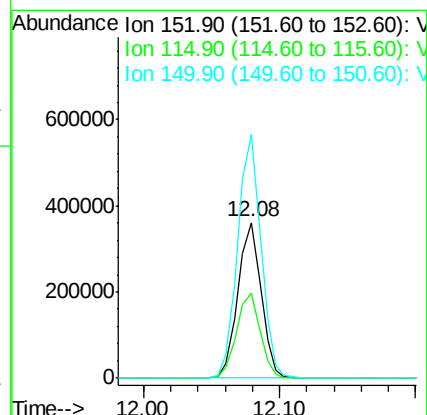
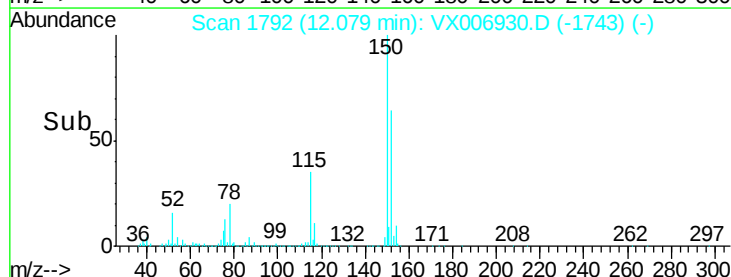
115 55.4 39.1 117.2

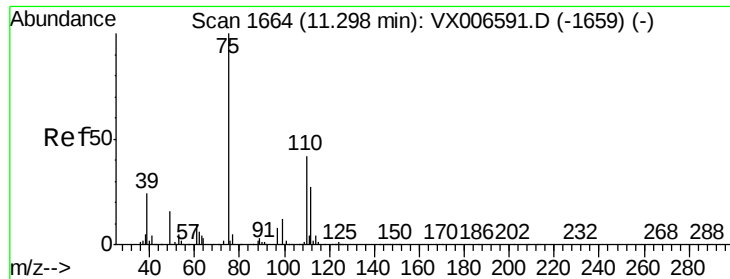
150 156.7 0.0 344.8



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

12.08





#76

1,2,3-Trichloropropane

Concen: 23.865 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

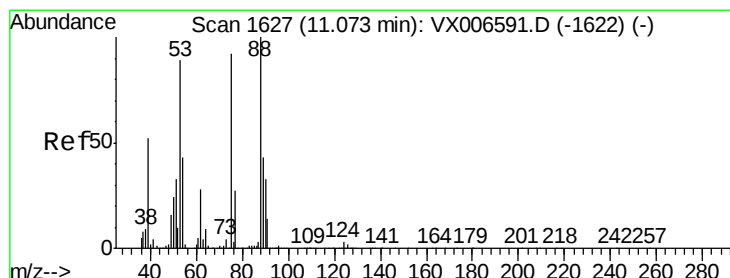
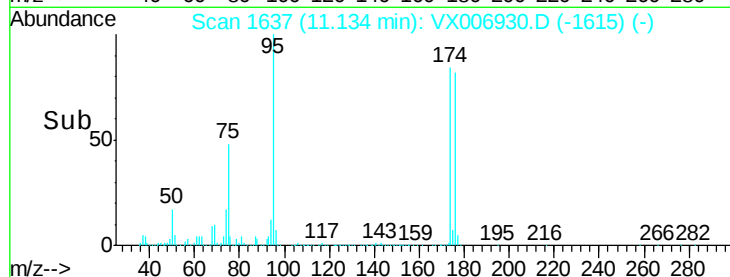
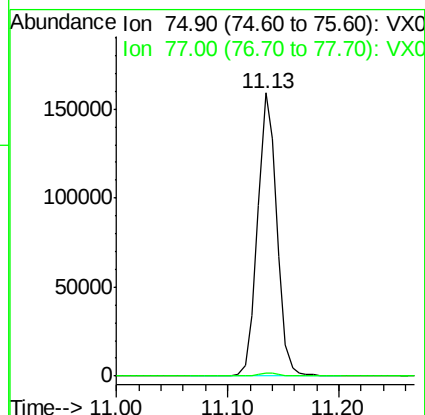
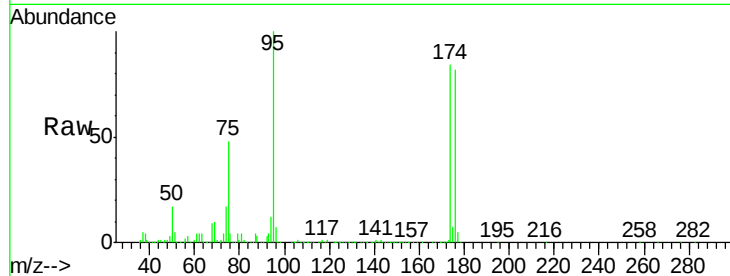
ClientSampleId :

Tot Ion: 75 Resp: 191598

Ion Ratio Lower Upper

75 100

77 1.4 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.712 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

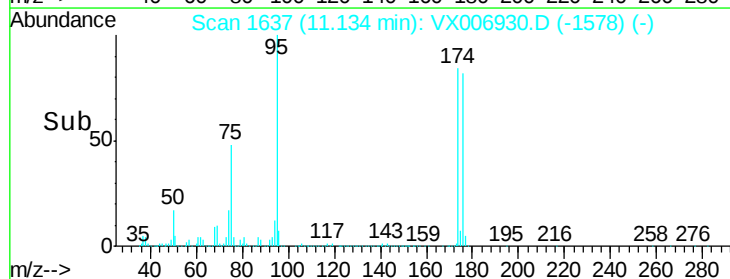
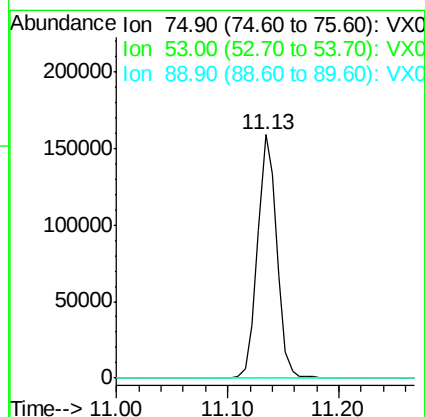
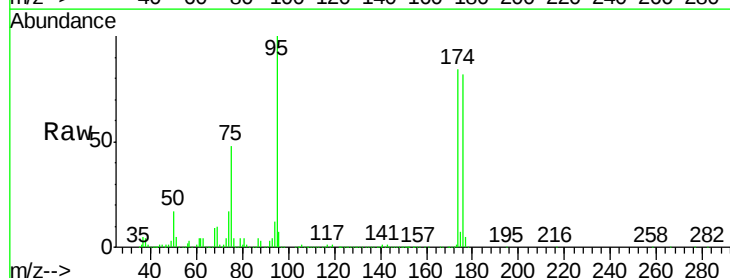
Tgt Ion: 75 Resp: 191598

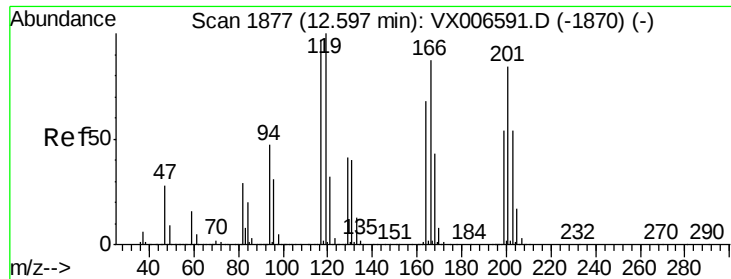
Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.0 38.0 57.0#





#90

Hexachloroethane

Concen: 3.338 ug/l

RT: 12.52 min Scan# 1865

Delta R.T. -0.07 min

Lab File: VX006930.D

Acq: 07 Jan 2019 12:48

Instrument :

MSVOA_X

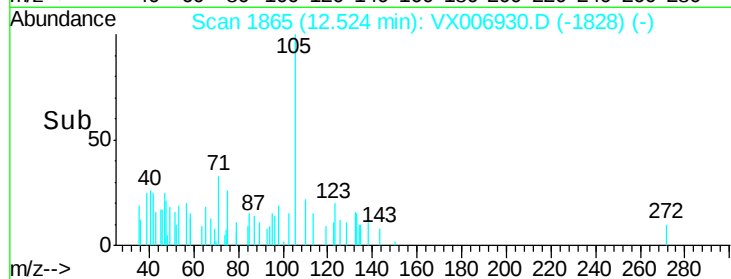
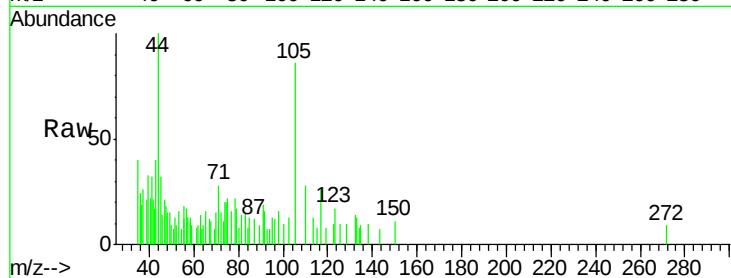
ClientSampleId :

Tot Ion:117 Resp: 196

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

