

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090518\
 Data File : VX004362.D
 Acq On : 05 Sep 2018 10:53
 Operator : JC/MD
 Sample : VX0905WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 05 14:06:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	339519	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	531940	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	485921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	283698	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	226722	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
35) Dibromofluoromethane	5.50	113	200940	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
50) Toluene-d8	8.71	98	744734	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
62) 4-Bromofluorobenzene	11.14	95	270877	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	

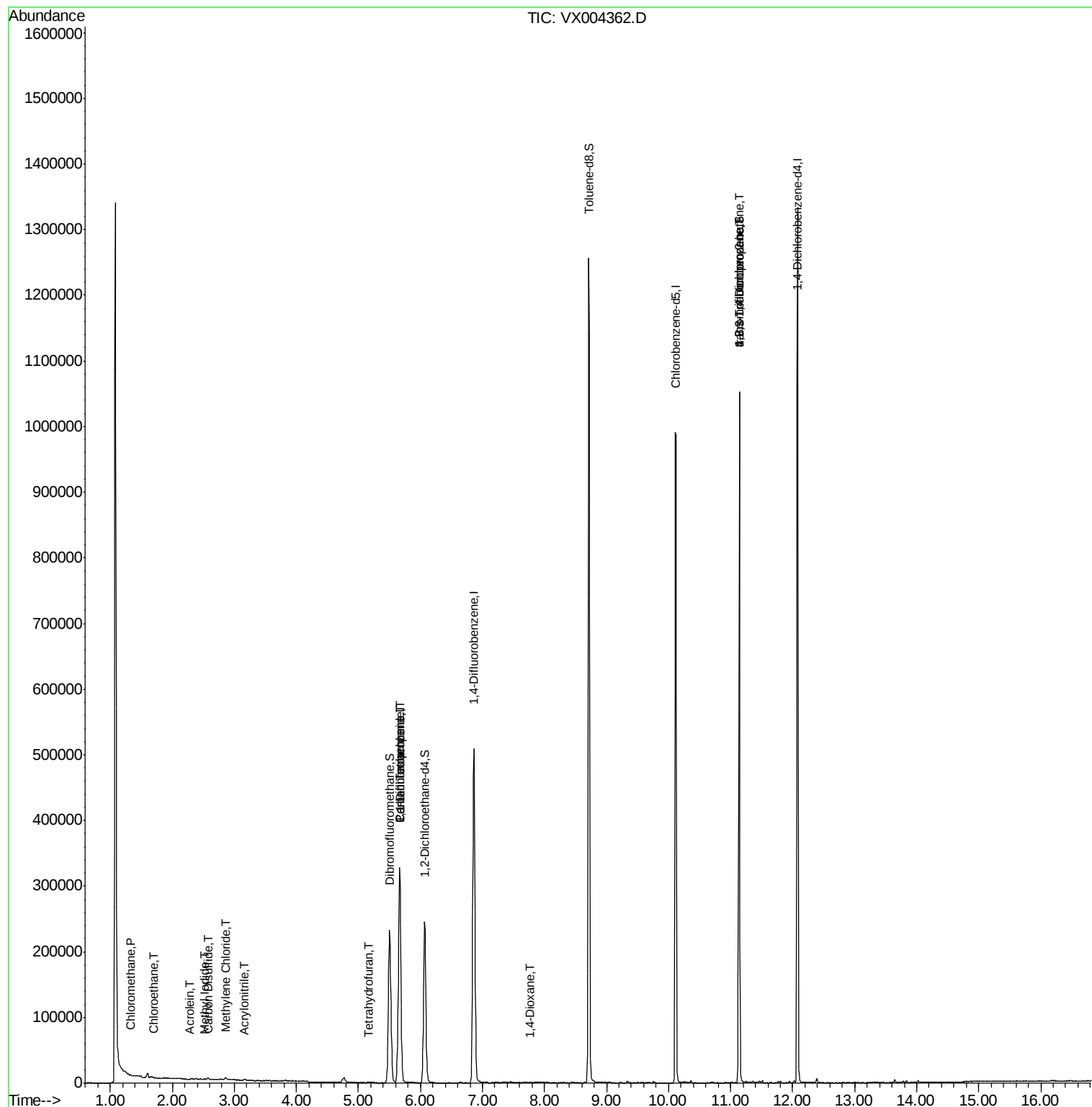
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1051	0.53	ug/l	89
5) Bromomethane	1.65	94	812	Below Cal		85
6) Chloroethane	1.70	64	776	1.19	ug/l #	47
10) Methyl Iodide	2.52	142	550	4.38	ug/l #	87
13) Acrolein	2.29	56	226	0.99	ug/l #	52
15) Acrylonitrile	3.15	53	650	0.28	ug/l #	57
16) Acetone	2.45	43	1201	Below Cal		91
17) Carbon Disulfide	2.57	76	2526	1.05	ug/l	99
20) Methylene Chloride	2.86	84	1771	0.42	ug/l #	94
25) 2-Butanone	4.71	43	876	Below Cal	#	47
29) Tetrahydrofuran	5.17	42	1278	0.67	ug/l #	57
36) 1,1-Dichloropropene	5.66	75	22063	3.69	ug/l #	50
38) Carbon Tetrachloride	5.66	117	29781	5.29	ug/l #	15
49) 1,4-Dioxane	7.76	88	43	0.39	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	125162	21.69	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	125162	70.38	ug/l #	10

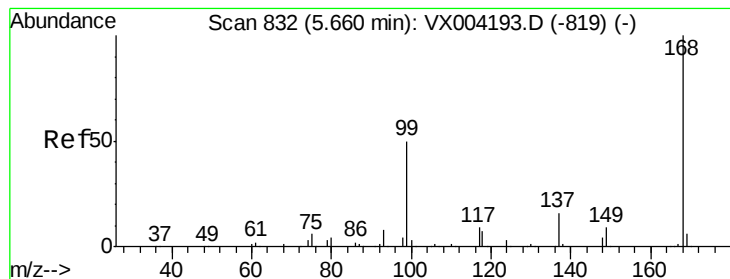
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

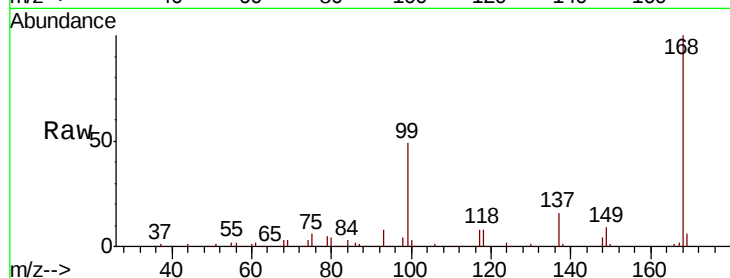
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 339519

Ion Ratio Lower Upper

168 100

99 49.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

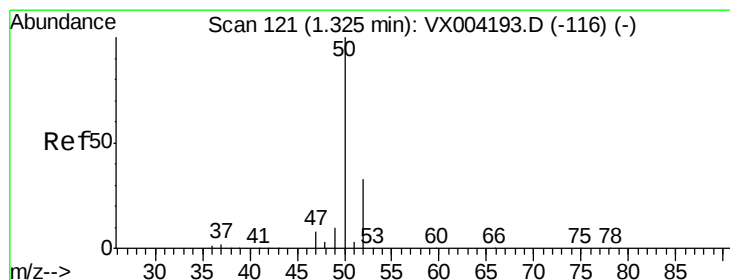
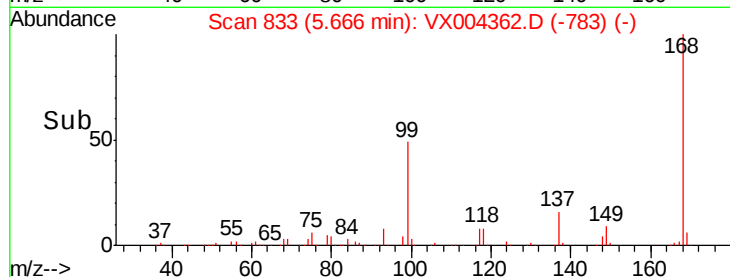
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.53 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004362.D

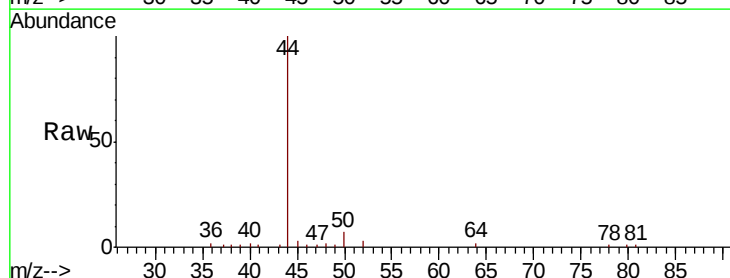
Acq: 05 Sep 2018 10:53

Tgt Ion: 50 Resp: 1051

Ion Ratio Lower Upper

50 100

52 38.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

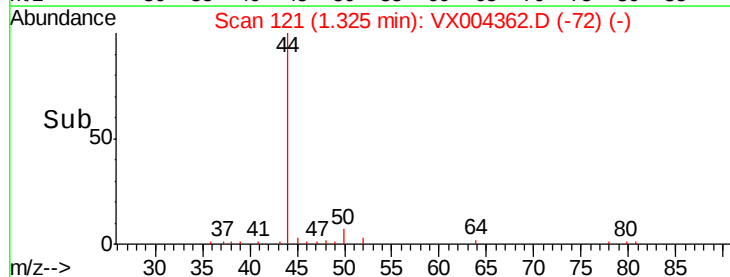
600

400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

Instrument :

MSVOA_X

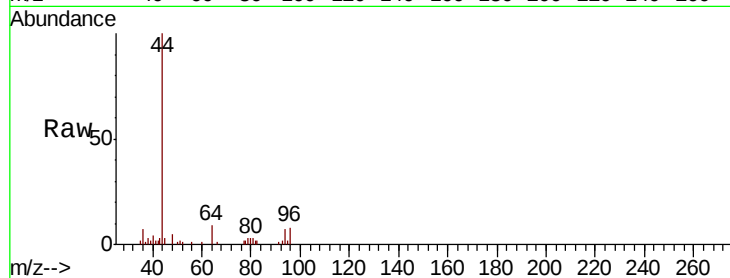
ClientSampled :

Tot Ion: 94 Resp: 812

Ion Ratio Lower Upper

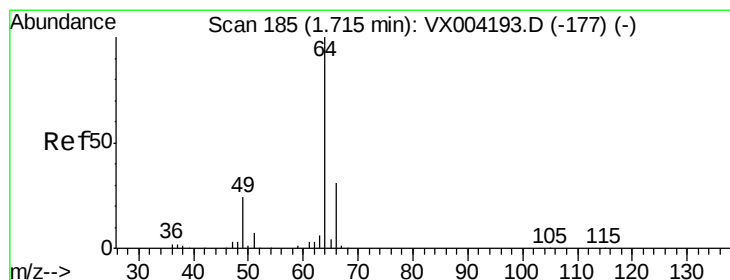
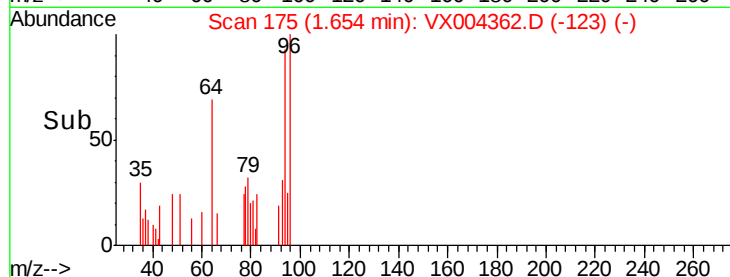
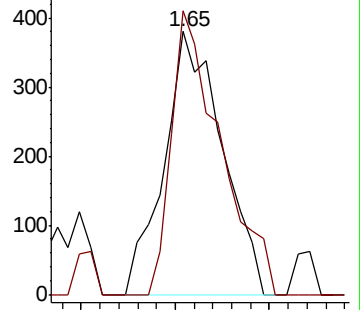
94 100

96 107.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.19 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.01 min

Lab File: VX004362.D

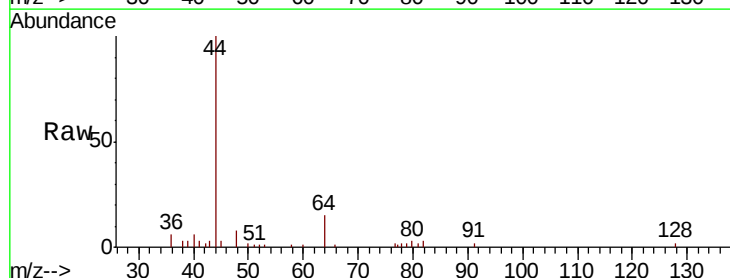
Acq: 05 Sep 2018 10:53

Tgt Ion: 64 Resp: 776

Ion Ratio Lower Upper

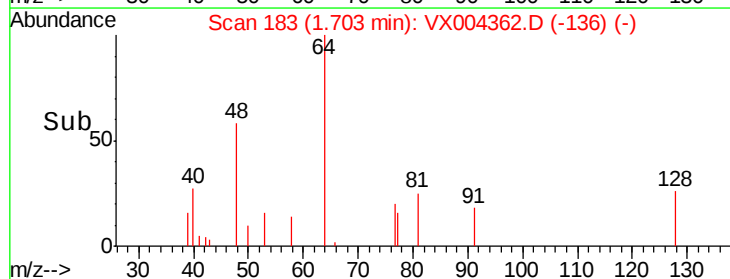
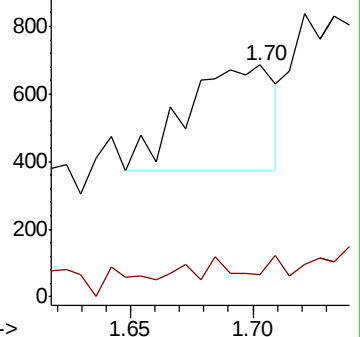
64 100

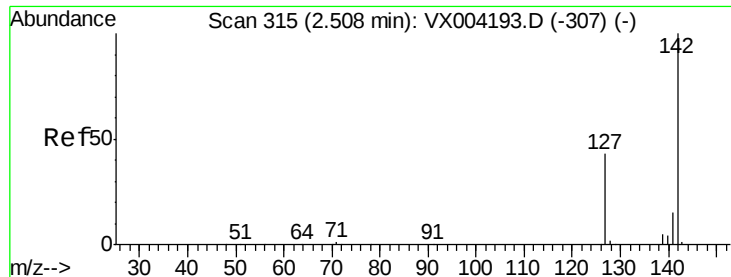
66 1.9 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

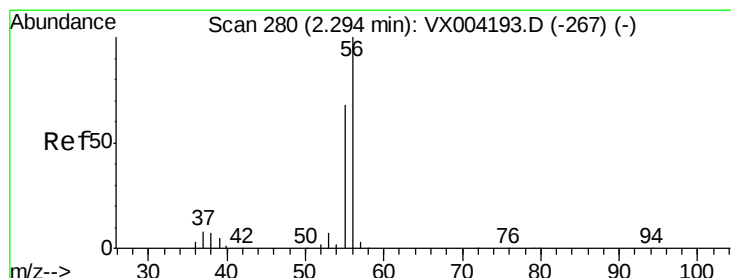
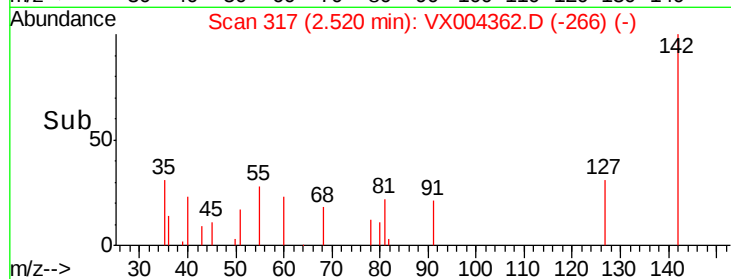
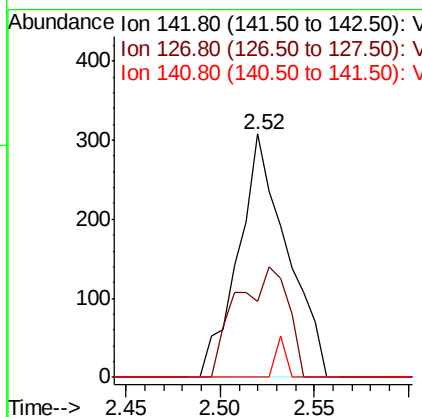
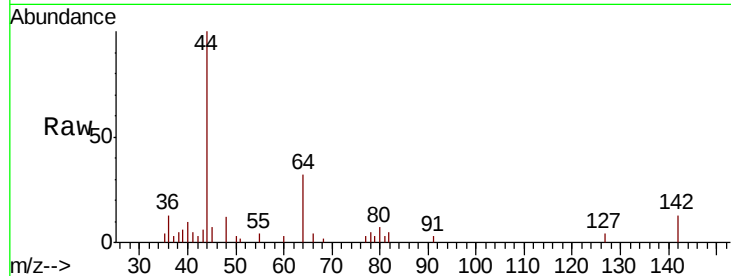




#10
Methvl Iodide
Concen: 4.38 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX004362.D
Acq: 05 Sep 2018 10:53

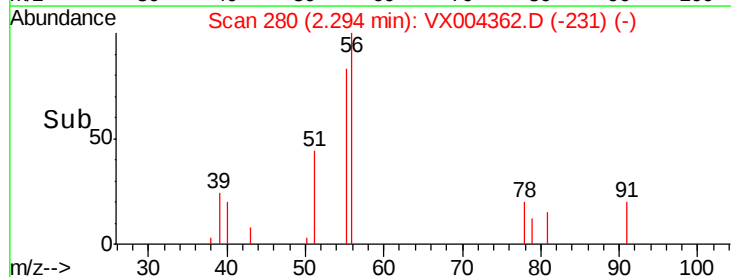
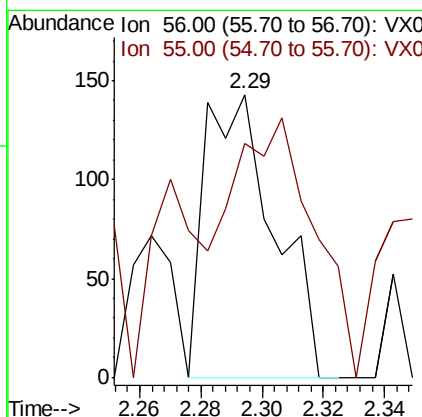
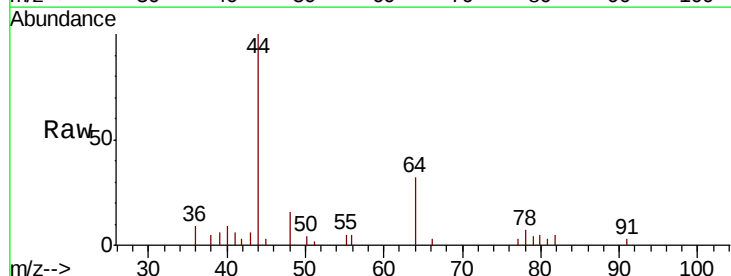
Instrument :
MSVOA_X
ClientSampleId :

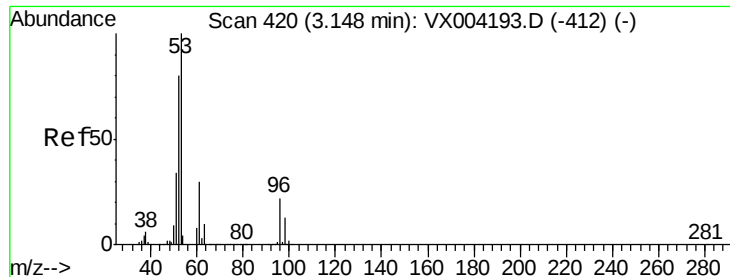
Tot Ion:142 Resp: 550
Ion Ratio Lower Upper
142 100
127 48.0 33.8 50.6
141 3.5 11.4 17.0#



#13
Acrolein
Concen: 0.99 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX004362.D
Acq: 05 Sep 2018 10:53

Tgt Ion: 56 Resp: 226
Ion Ratio Lower Upper
56 100
55 107.1 54.7 82.1#





#15

Acrylonitrile

Concen: 0.28 ug/l

RT: 3.15 min Scan# 420

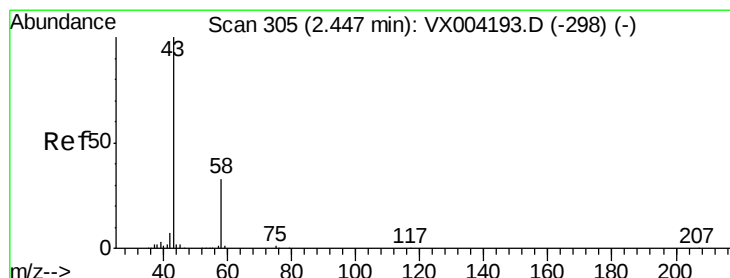
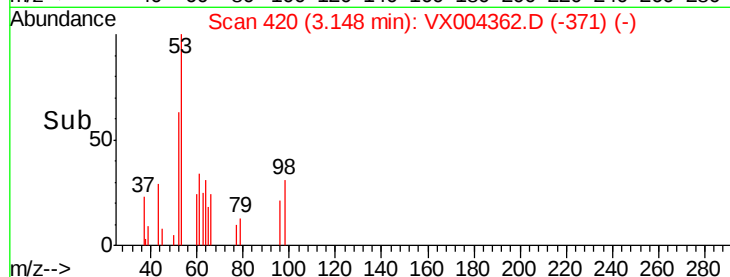
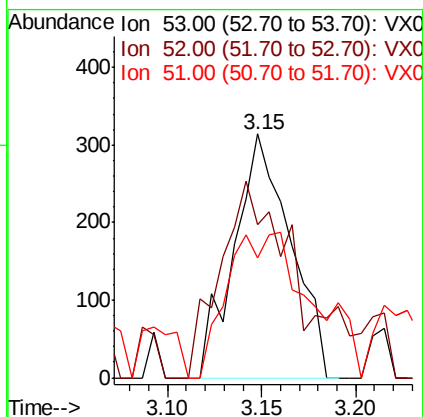
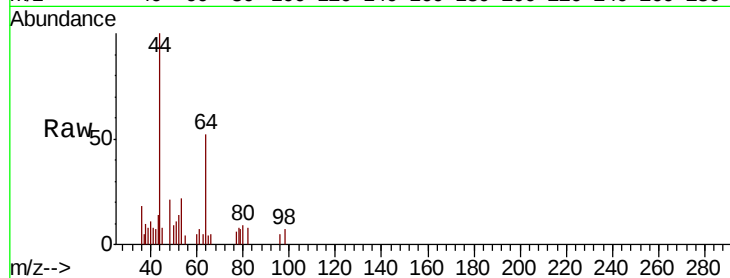
Delta R.T. 0.00 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	53	Resp:	650
Ion	Ratio	Lower	Upper
53	100		
52	100.0	65.2	97.8#
51	89.4	28.2	42.2#



#16

Acetone

Concen: Below Cal

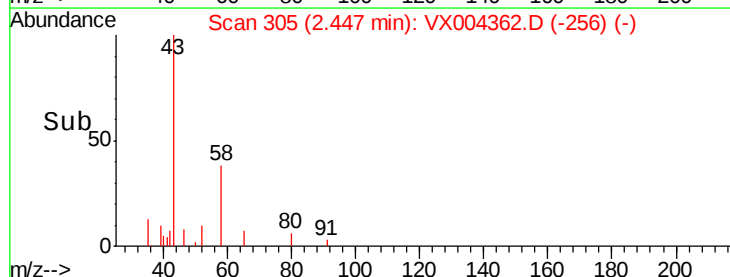
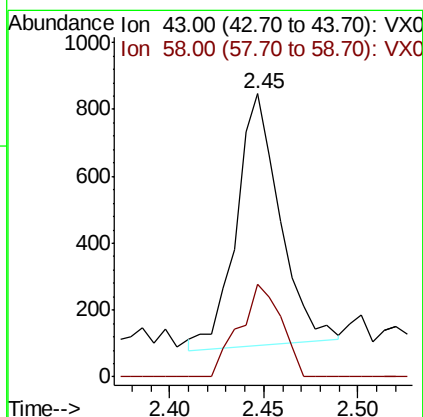
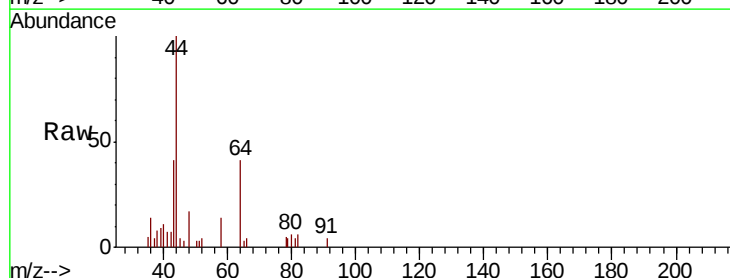
RT: 2.45 min Scan# 305

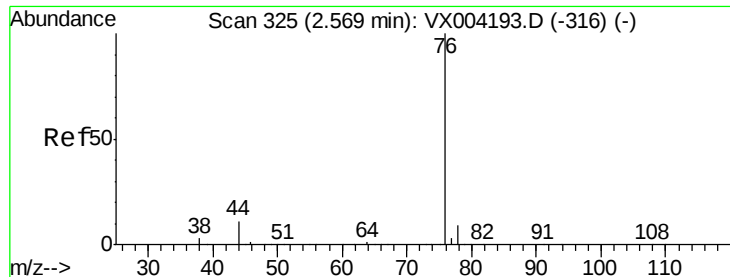
Delta R.T. 0.00 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

Tgt Ion:	43	Resp:	1201
Ion	Ratio	Lower	Upper
43	100		
58	38.1	26.2	39.4





#17

Carbon Disulfide

Concen: 1.05 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

Instrument :

MSVOA_X

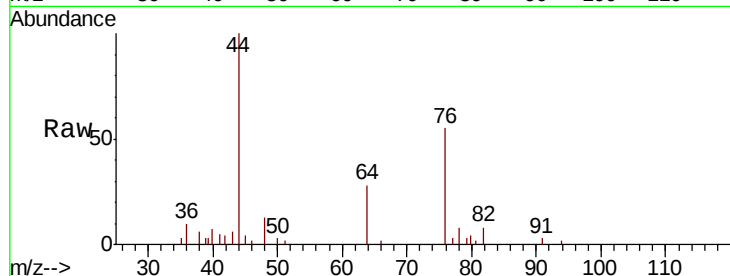
ClientSampled :

Tot Ion: 76 Resp: 2526

Ion Ratio Lower Upper

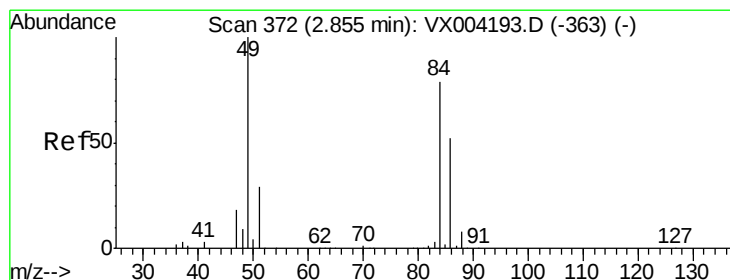
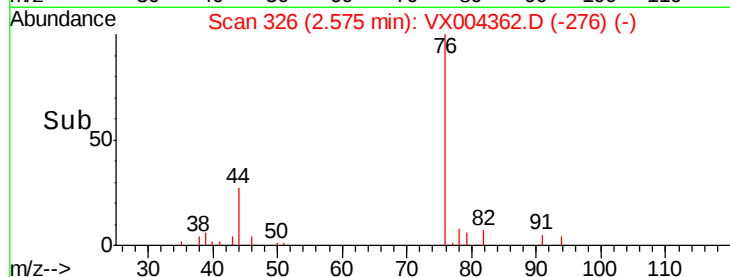
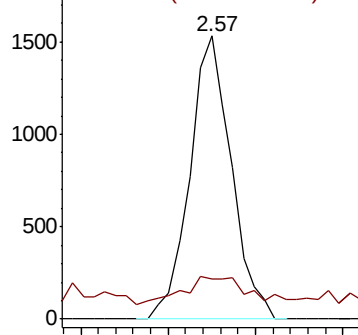
76 100

78 9.2 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.42 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

Tgt Ion: 84 Resp: 1771

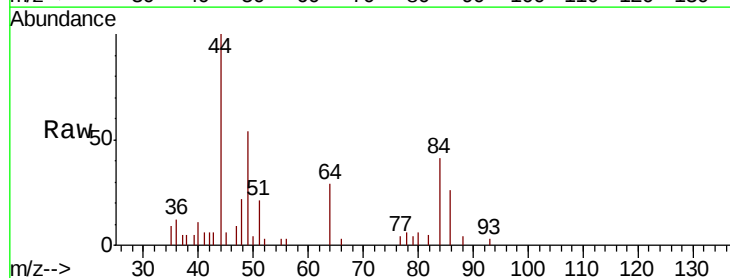
Ion Ratio Lower Upper

84 100

49 133.6 101.2 151.8

51 44.4 29.5 44.3#

86 63.2 52.3 78.5

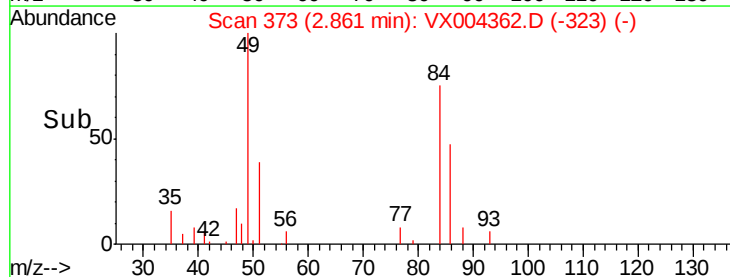
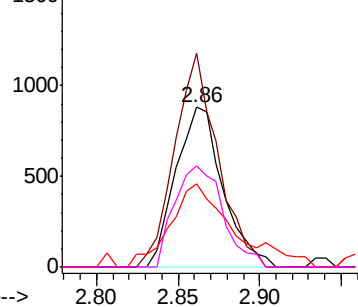


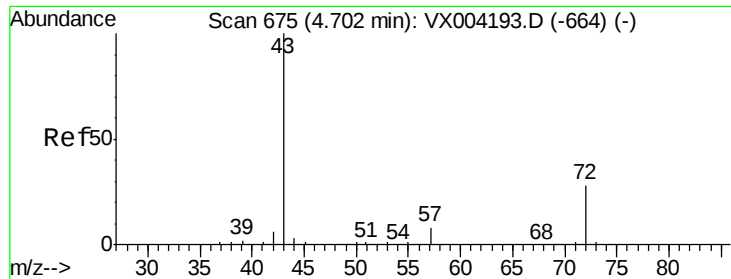
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: Below Cal

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

Instrument :

MSVOA_X

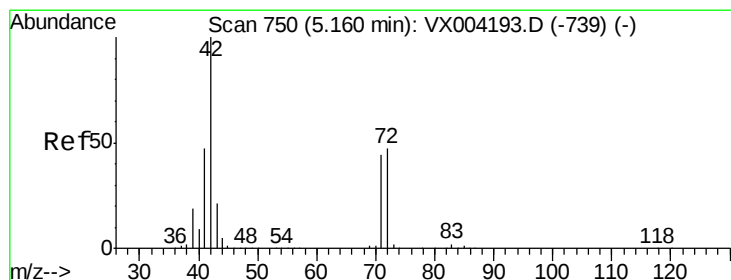
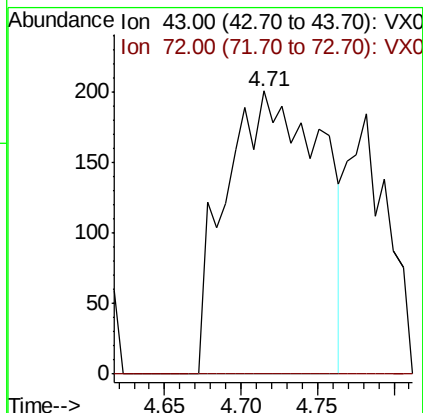
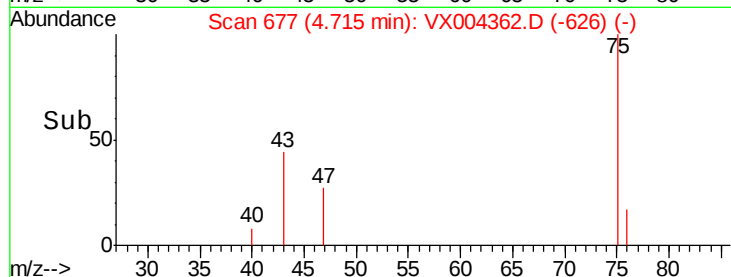
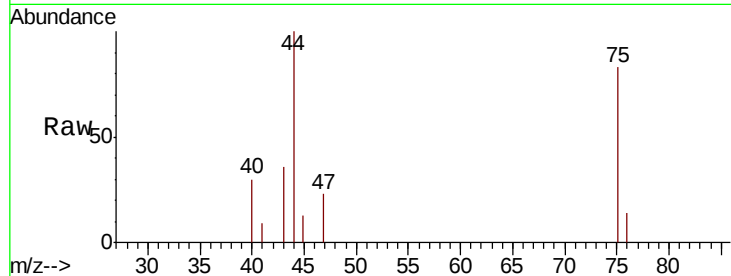
ClientSampleId :

Tot Ion: 43 Resp: 876

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.67 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

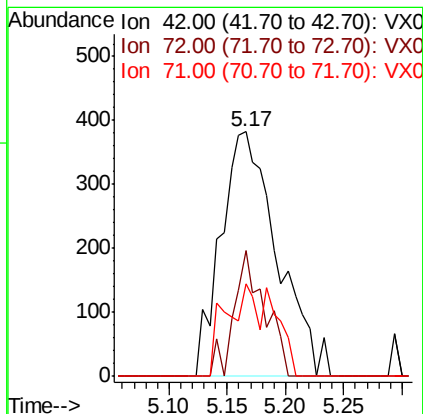
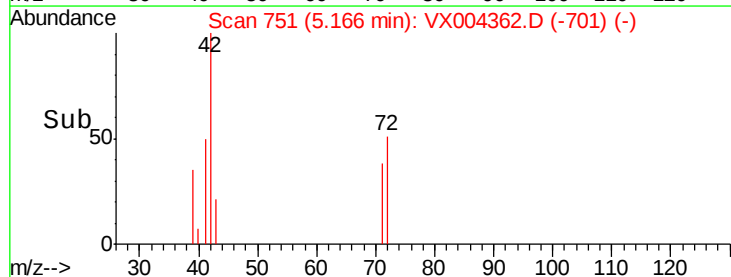
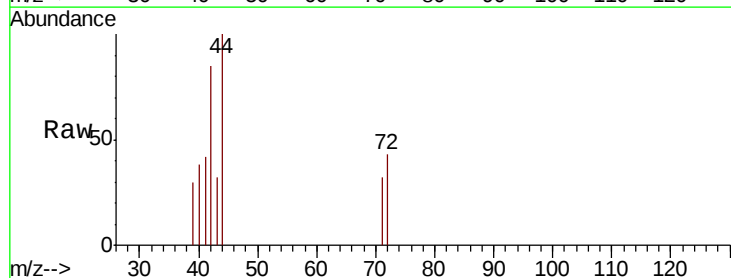
Tgt Ion: 42 Resp: 1278

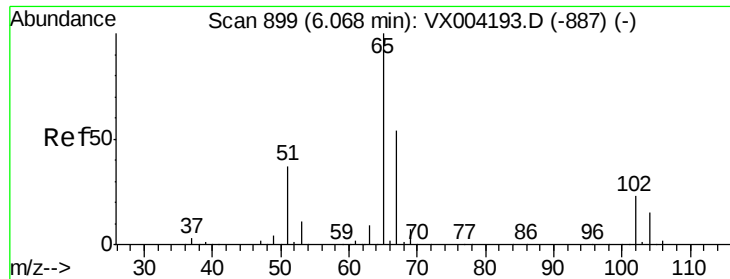
Ion Ratio Lower Upper

42 100

72 27.9 37.4 56.0#

71 4.8 34.5 51.7#

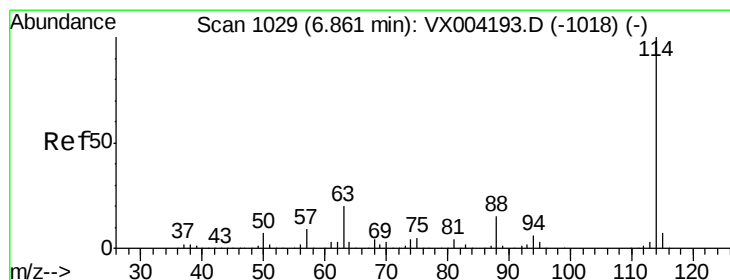
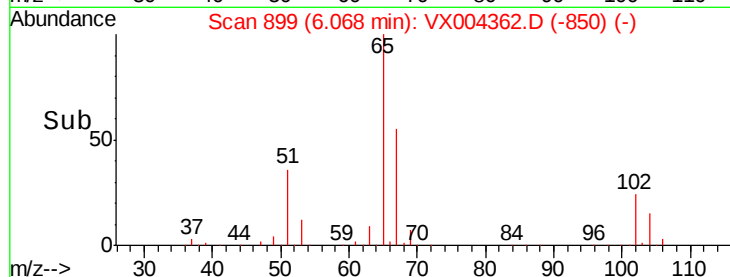
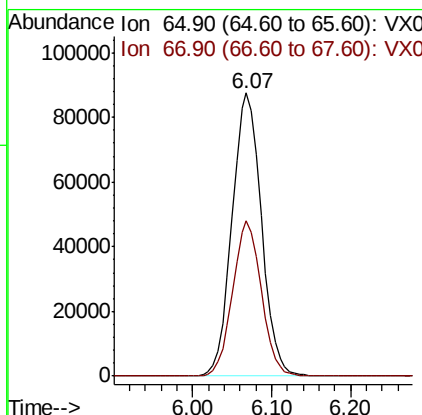
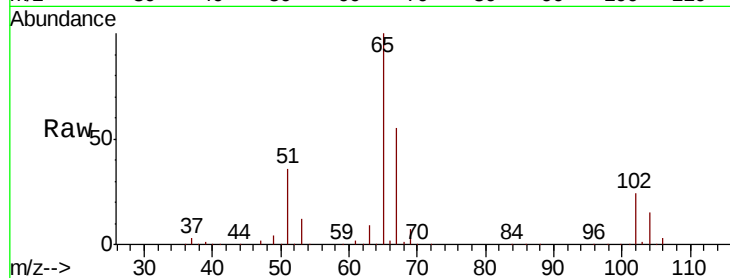




#33
 1,2-Dichloroethane-d4
 Concen: 51.23 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. 0.00 min
 Lab File: VX004362.D
 Acq: 05 Sep 2018 10:53

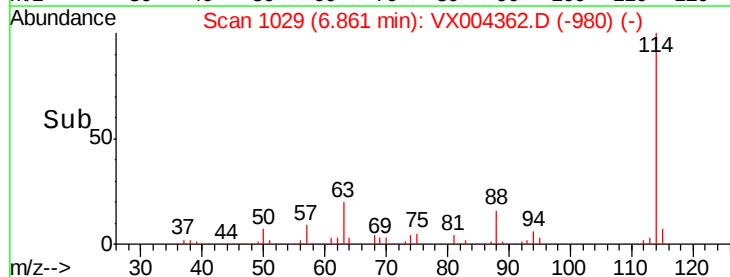
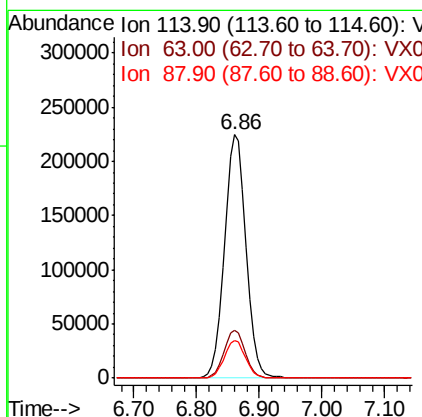
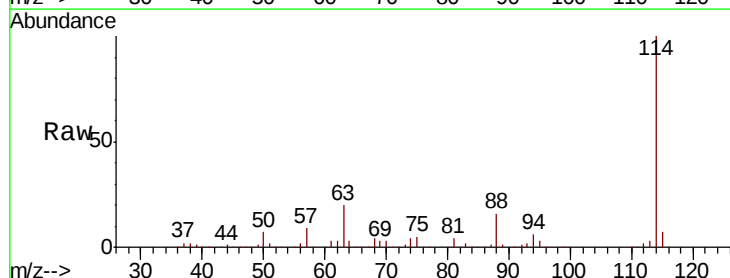
Instrument :
 MSVOA_X
 ClientSampleId :

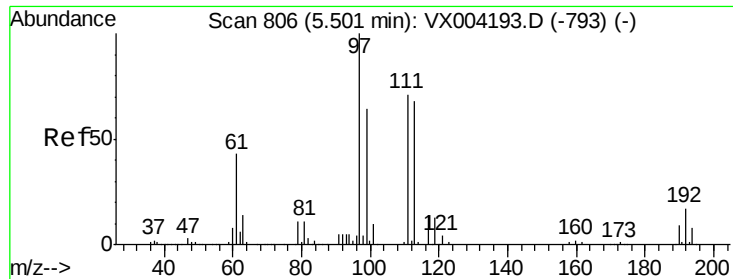
Tot Ion: 65 Resp: 226722
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. 0.00 min
 Lab File: VX004362.D
 Acq: 05 Sep 2018 10:53

Tgt Ion: 114 Resp: 531940
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.0
 88 15.6 0.0 30.4

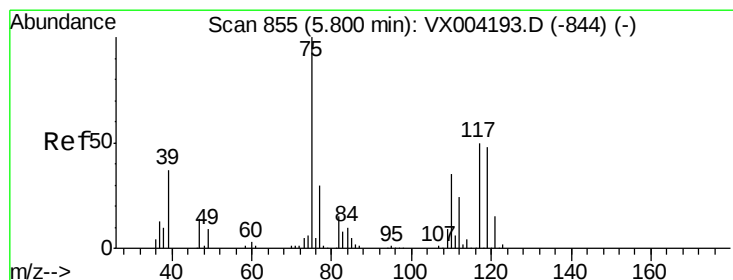
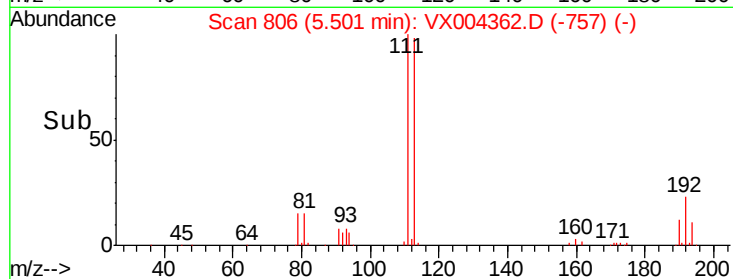
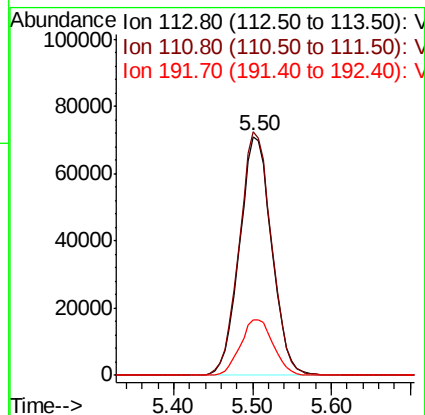
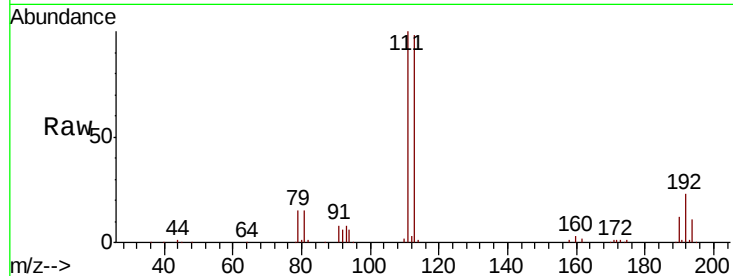




#35
 Dibromofluoromethane
 Concen: 50.78 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004362.D
 Acq: 05 Sep 2018 10:53

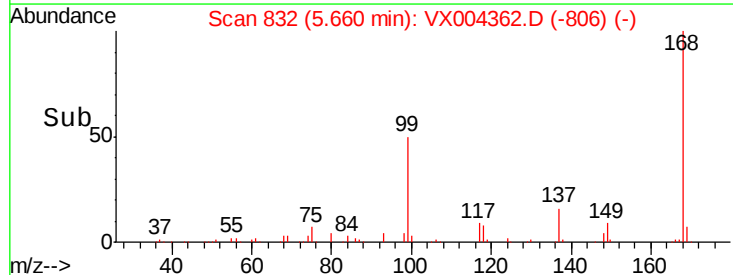
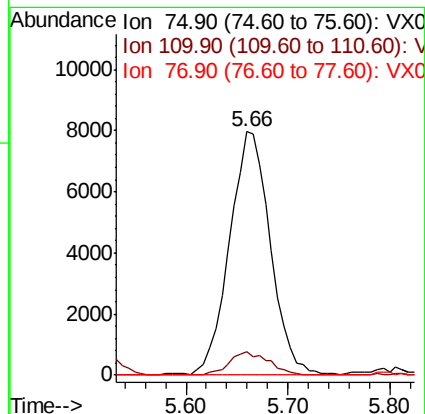
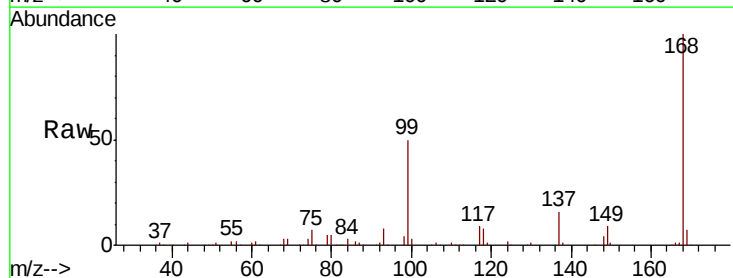
Instrument :
 MSVOA_X
 ClientSampleId :

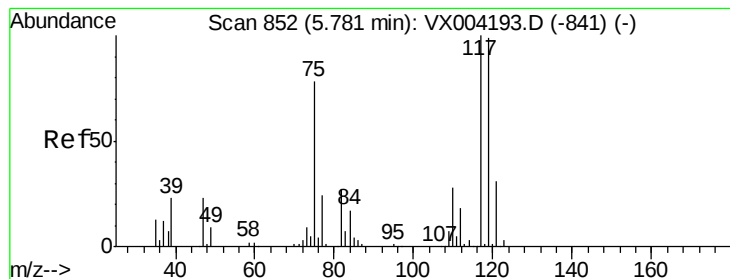
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.4	123.6
192	24.0	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.69 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004362.D
 Acq: 05 Sep 2018 10:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	18.0	54.0#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.29 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

Instrument :

MSVOA_X

ClientSampled :

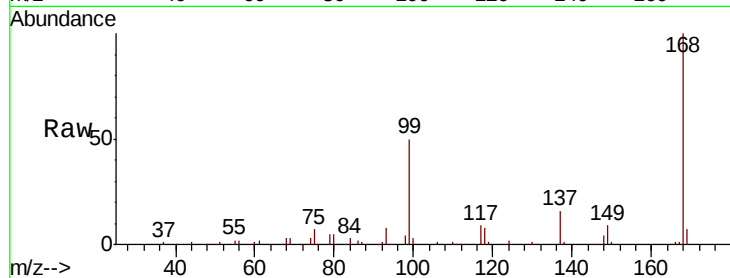
Tot Ion:117 Resp: 29781

Ion Ratio Lower Upper

117 100

119 5.9 78.8 118.2#

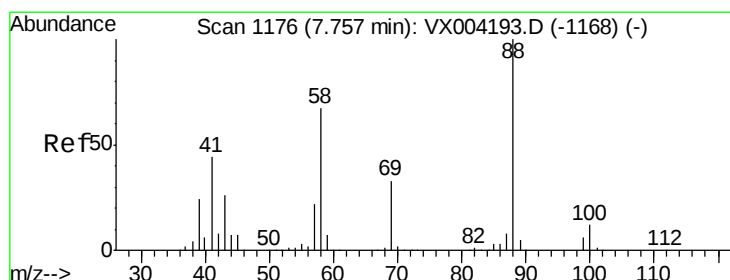
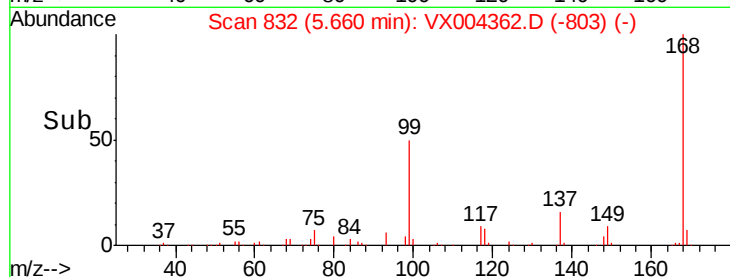
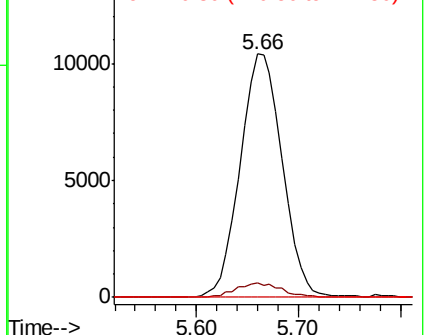
121 0.0 24.9 37.3#



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



#49

1,4-Dioxane

Concen: 0.39 ug/l

RT: 7.76 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

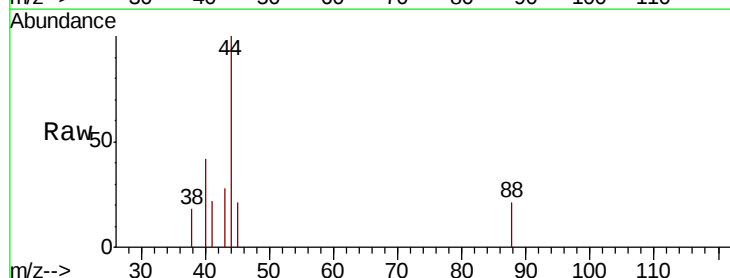
Tgt Ion: 88 Resp: 43

Ion Ratio Lower Upper

88 100

43 248.8 24.7 37.1#

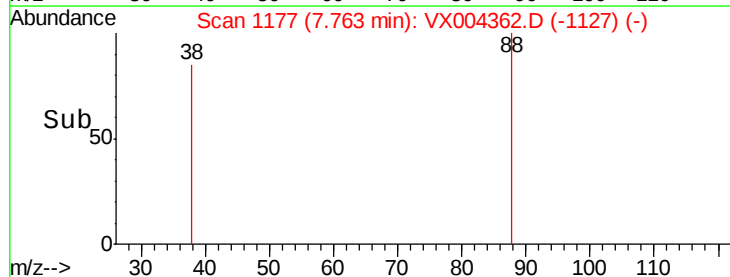
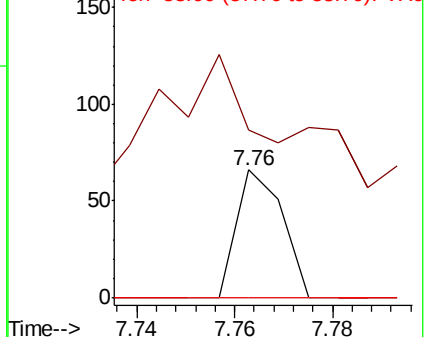
58 0.0 55.3 82.9#

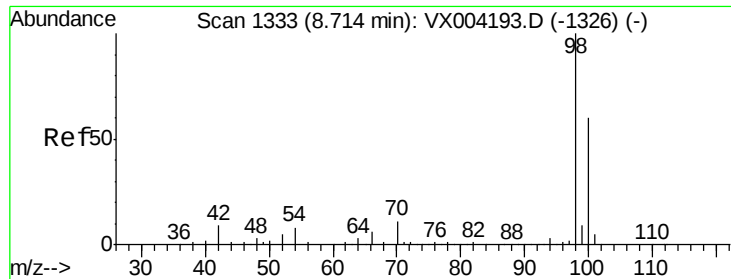


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

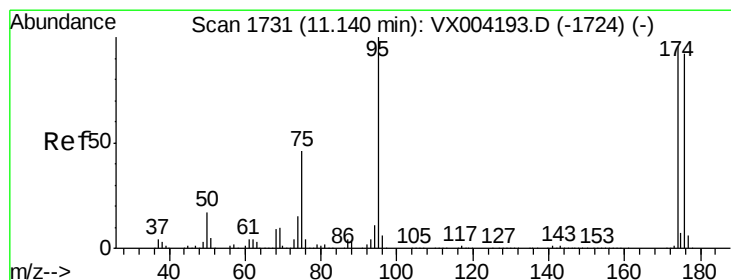
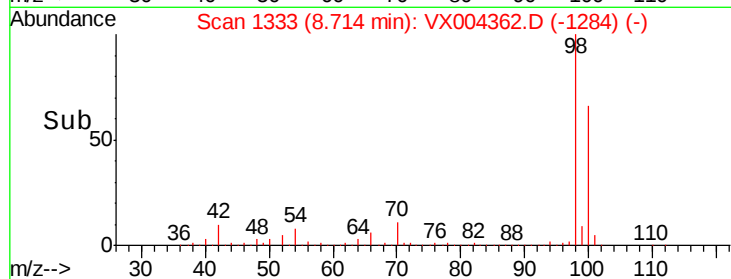
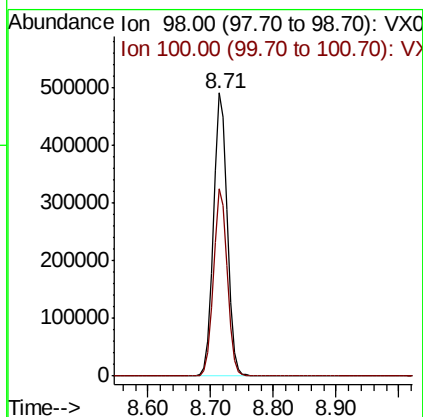
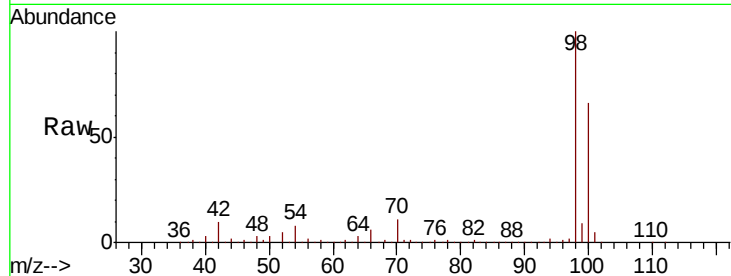




#50
Toluene-d8
Concen: 49.86 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. 0.00 min
Lab File: VX004362.D
Acq: 05 Sep 2018 10:53

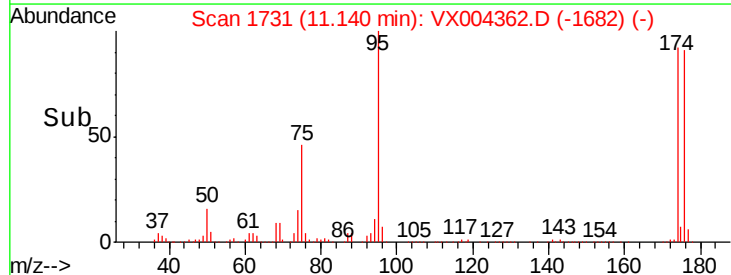
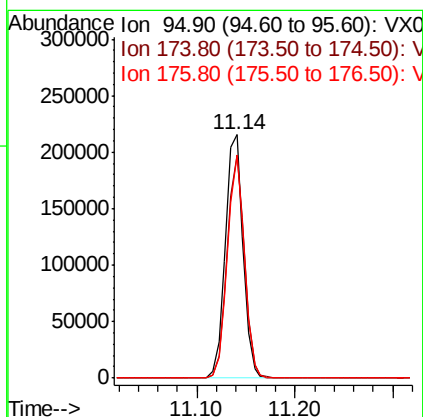
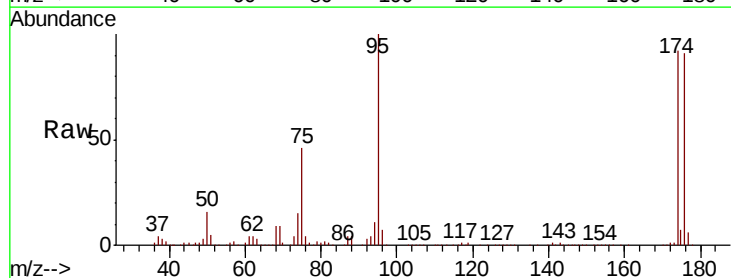
Instrument :
MSVOA_X
ClientSampleId :

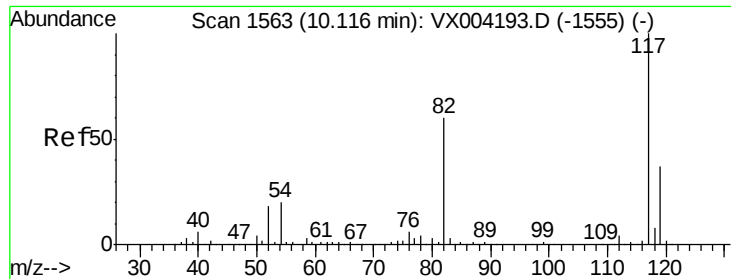
Tot Ion: 98 Resp: 744734
Ion Ratio Lower Upper
98 100
100 65.8 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 48.60 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX004362.D
Acq: 05 Sep 2018 10:53

Tgt Ion: 95 Resp: 270877
Ion Ratio Lower Upper
95 100
174 90.1 0.0 185.2
176 88.1 0.0 178.6





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

Instrument :

MSVOA_X

ClientSampled :

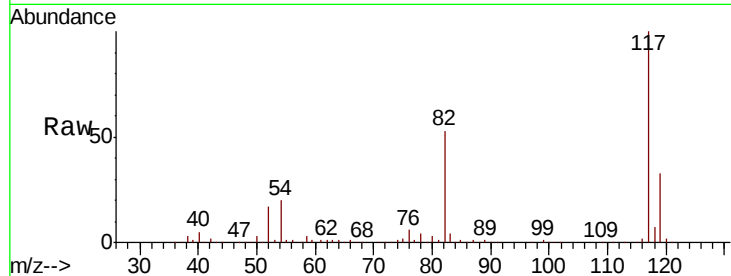
Tot Ion:117 Resp: 485921

Ion Ratio Lower Upper

117 100

82 53.2 47.8 71.6

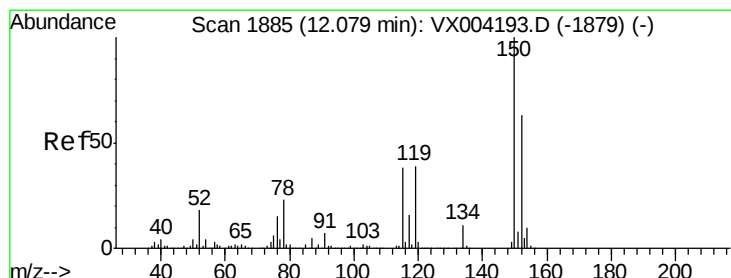
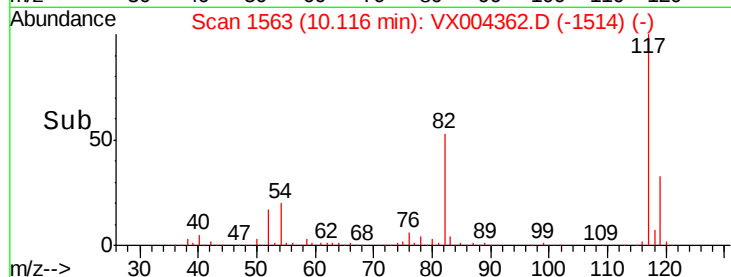
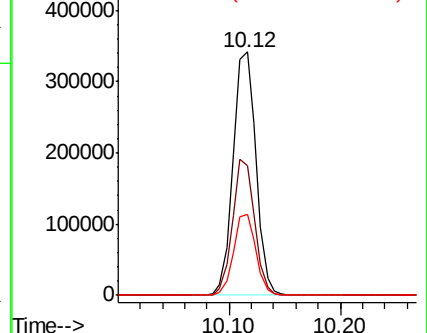
119 33.3 29.3 43.9



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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

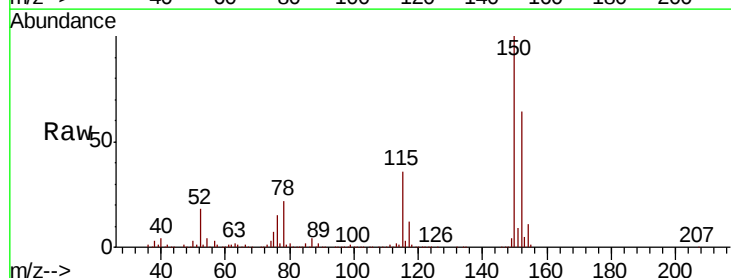
Tgt Ion:152 Resp: 283698

Ion Ratio Lower Upper

152 100

115 55.3 39.0 117.0

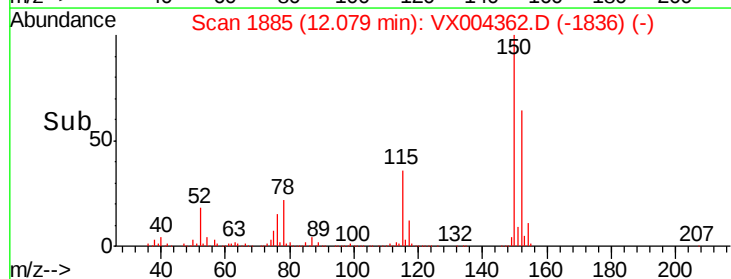
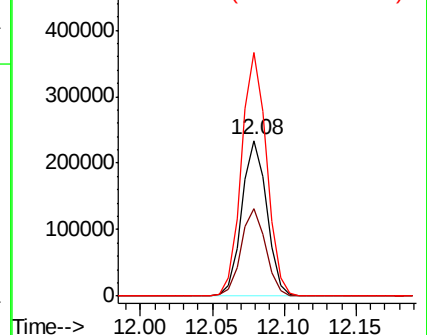
150 157.7 0.0 351.0

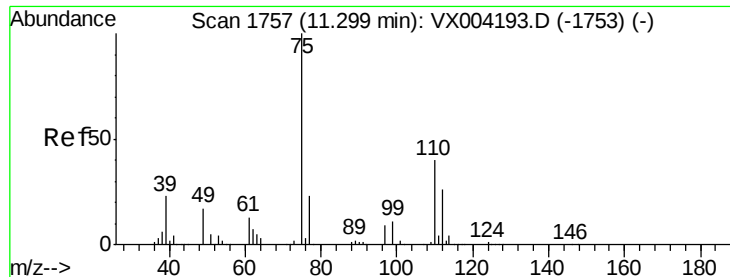


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.69 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

Instrument :

MSVOA_X

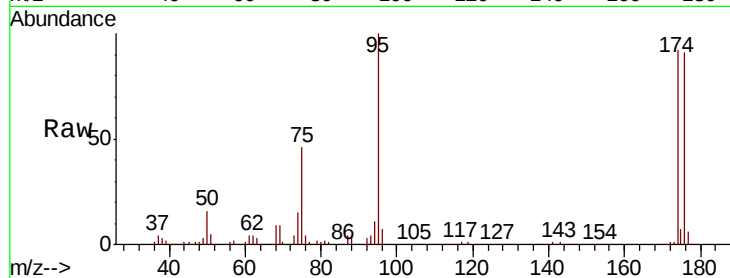
ClientSampled :

Tot Ion: 75 Resp: 125162

Ion Ratio Lower Upper

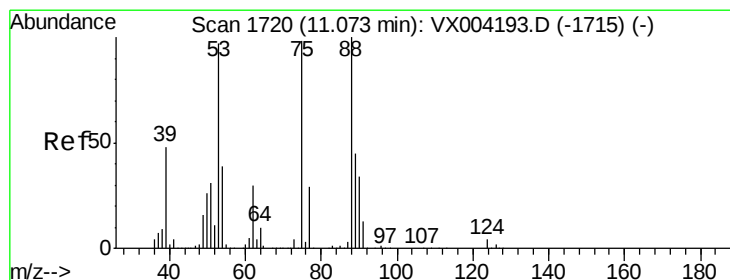
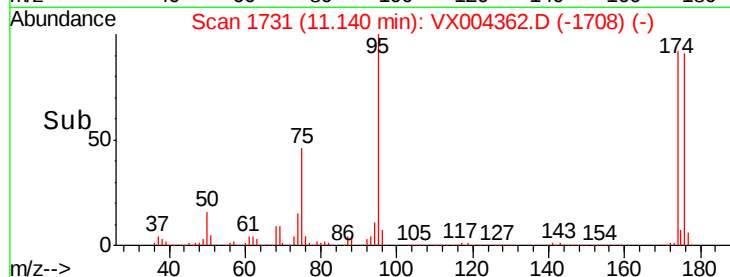
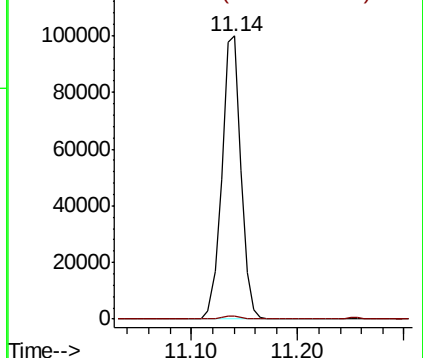
75 100

77 1.4 20.2 60.6#



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: 70.38 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004362.D

Acq: 05 Sep 2018 10:53

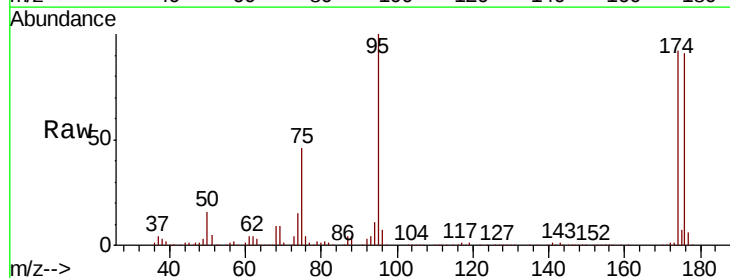
Tgt Ion: 75 Resp: 125162

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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

