

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100920\
 Data File : VX018865.D
 Acq On : 09 Oct 2020 19:16
 Operator : JC/SP
 Sample : L4317-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Field Sampling Hourly Rate

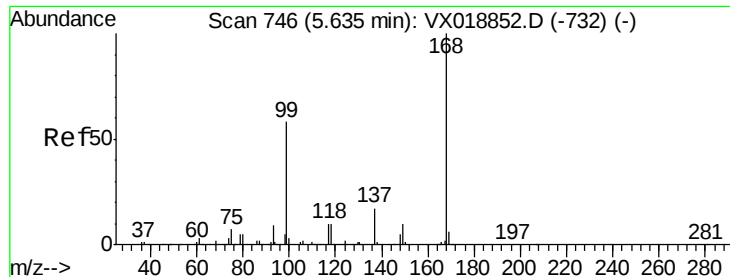
Quant Time: Oct 10 06:20:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100920W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 10 06:09:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	211941	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	342014	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	332777	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	168152	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	160689	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	
35) Dibromofluoromethane	5.46	113	117438	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
50) Toluene-d8	8.70	98	414380	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
62) 4-Bromofluorobenzene	11.12	95	160205	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.31	85	75	1.648	ug/l #	24
8) Diethyl Ether	2.18	74	942	1.786	ug/l	55
11) Tert butyl alcohol	2.99	59	1063	2.159	ug/l #	76
12) 1,1-Dichloroethene	2.39	96	43	0.727	ug/l #	42
13) Acrolein	2.24	56	362	0.884	ug/l #	26
16) Acetone	2.42	43	5199	Below Cal	#	88
20) Methylene Chloride	2.84	84	5692	3.031	ug/l	93
25) 2-Butanone	4.66	43	1516	0.895	ug/l #	39
28) Bromochloromethane	4.99	49	186	1.617	ug/l #	8
29) Tetrahydrofuran	5.10	42	1048	1.154	ug/l #	68
30) Chloroform	5.18	83	1445	0.307	ug/l #	72
31) Cyclohexane	5.63	56	4665	1.598	ug/l #	35
36) 1,1-Dichloropropene	5.63	75	16183	4.500	ug/l #	52
38) Carbon Tetrachloride	5.63	117	22463	5.040	ug/l #	20
49) 1,4-Dioxane	7.73	88	47	1.145	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	2224	0.660	ug/l #	87
56) Ethyl methacrylate	9.15	69	54	2.948	ug/l #	1
64) Tetrachloroethene	9.32	164	170	Below Cal	#	16
76) 1,2,3-Trichloropropane	11.12	75	87444	24.135	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	87444	68.397	ug/l #	8
95) Naphthalene	13.82	128	821	3.145	ug/l #	76

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX018865.D

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Instrument :

MSVOA_X

ClientSampleId :

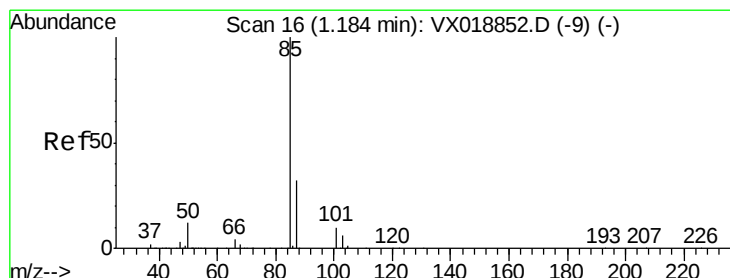
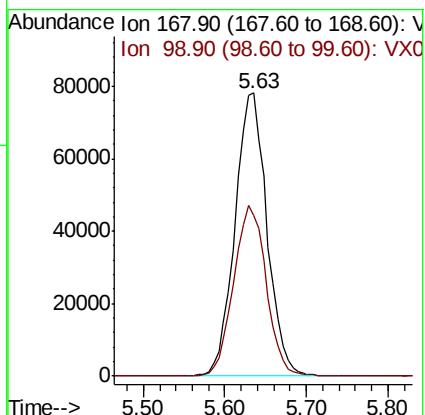
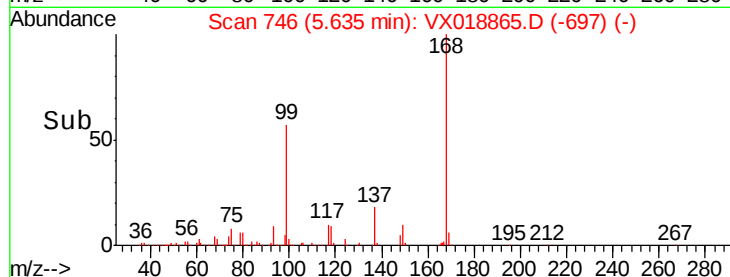
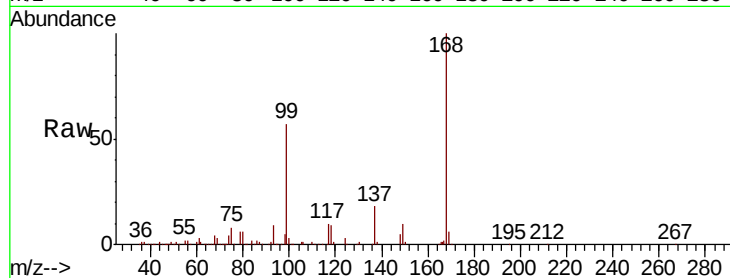
Field Sampling Hourly Rate

Tot Ion:168 Resp: 211941

Ion Ratio Lower Upper

168 100

99 56.6 46.1 69.1



#2

Dichlorodifluoromethane

Concen: 1.648 ug/l

RT: 1.31 min Scan# 36

Delta R.T. 0.12 min

Lab File: VX018865.D

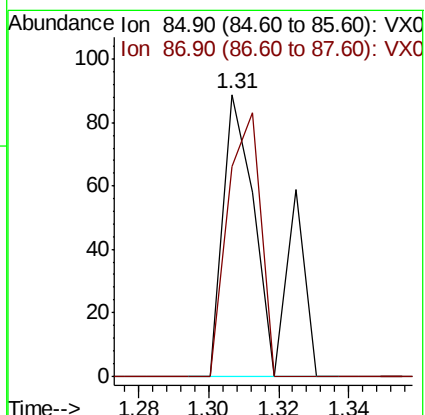
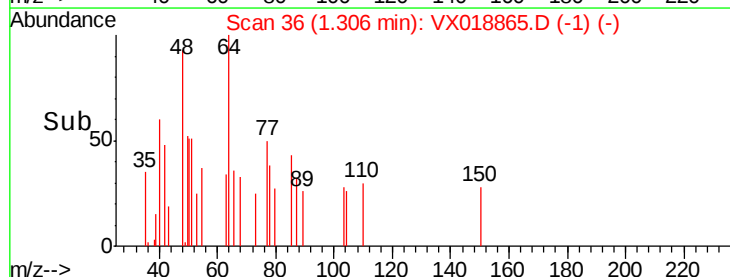
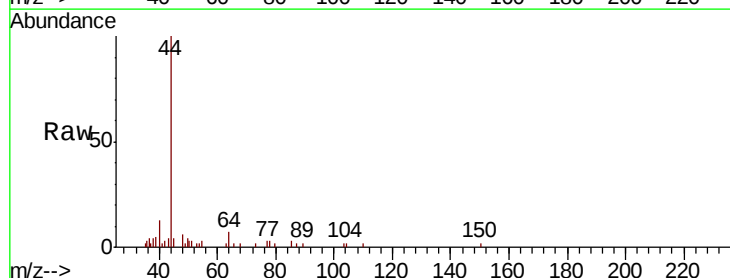
Acq: 09 Oct 2020 19:16

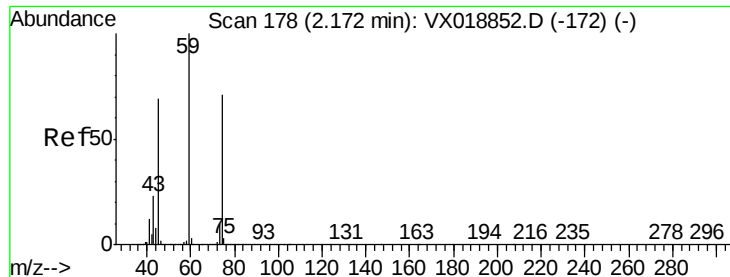
Tgt Ion: 85 Resp: 75

Ion Ratio Lower Upper

85 100

87 74.2 15.9 47.7#





#8

Diethyl Ether

Concen: 1.786 ug/l

RT: 2.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampled :

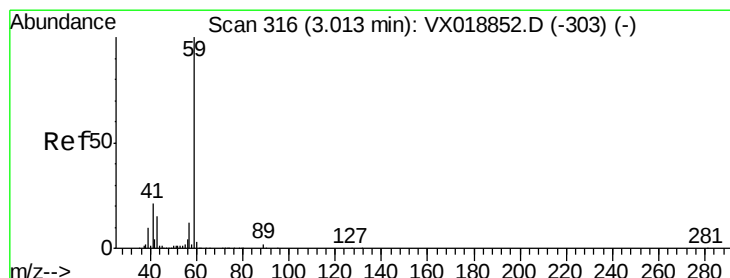
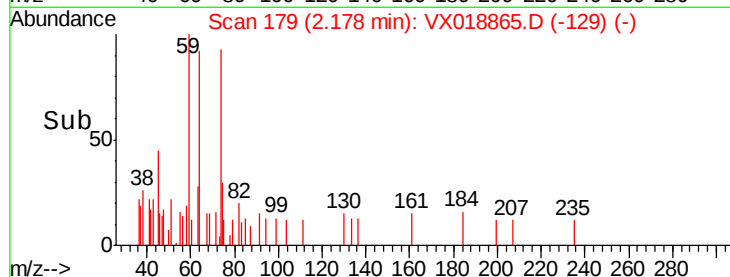
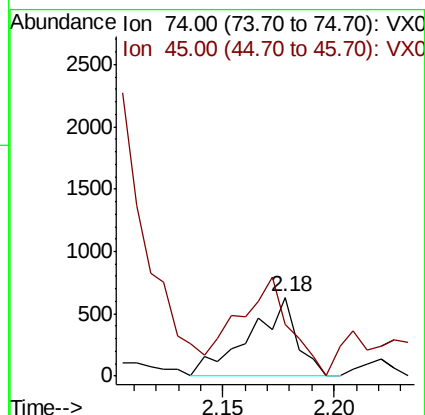
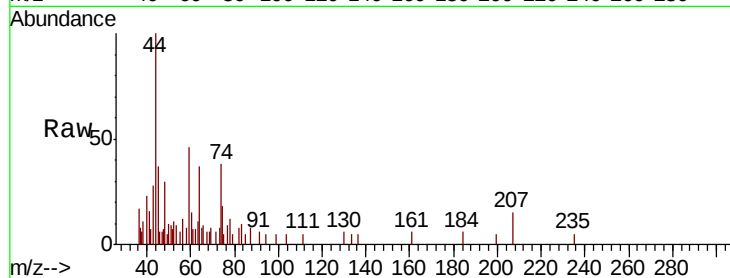
Field Sampling Hourly Rate

Tot Ion: 74 Resp: 942

Ion Ratio Lower Upper

74 100

45 137.7 47.0 141.2



#11

Tert butyl alcohol

Concen: 2.159 ug/l

RT: 2.99 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX018865.D

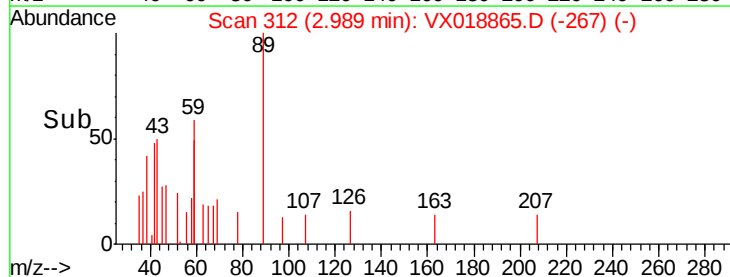
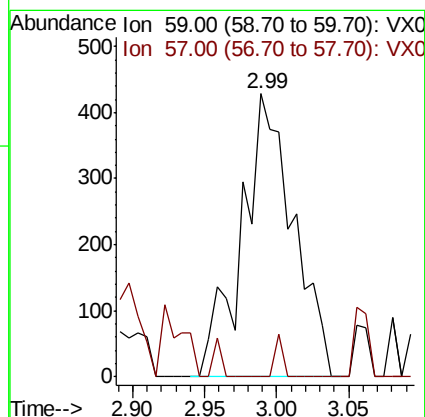
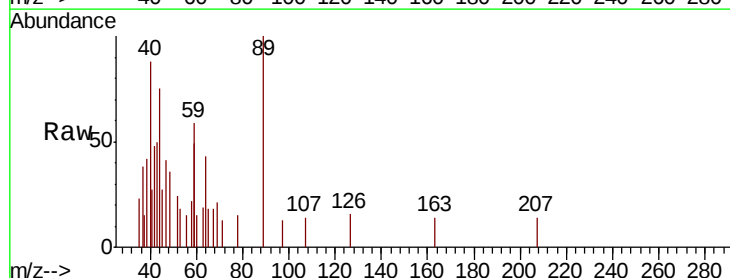
Acq: 09 Oct 2020 19:16

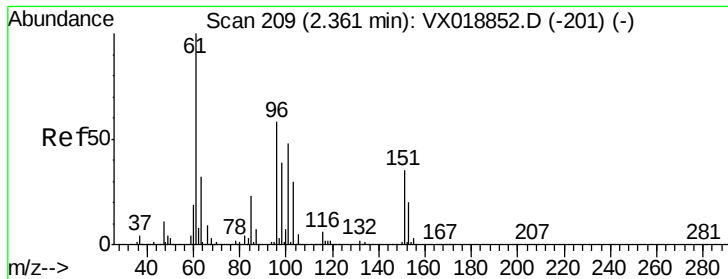
Tgt Ion: 59 Resp: 1063

Ion Ratio Lower Upper

59 100

57 2.3 9.0 13.6#





#12

1,1-Dichloroethene

Concen: 0.727 ug/l

RT: 2.39 min Scan# 214

Delta R.T. 0.03 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampleId :

Field Sampling Hourly Rate

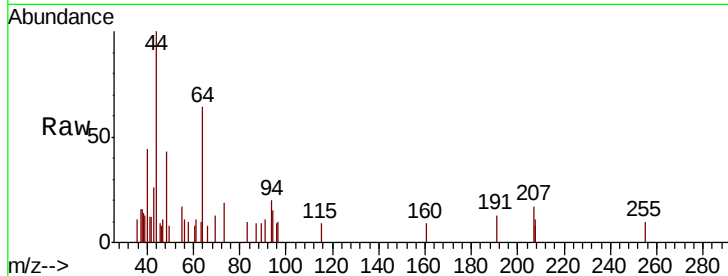
Tot Ion: 96 Resp: 43

Ion Ratio Lower Upper

96 100

61 105.1 137.0 205.6#

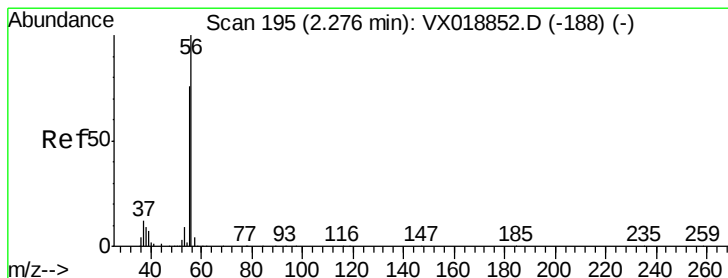
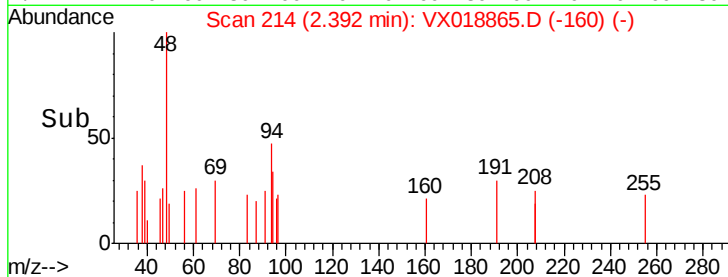
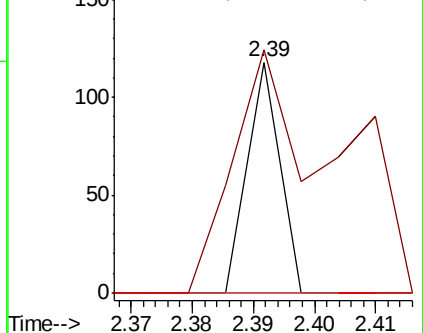
98 0.0 53.9 80.9#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.884 ug/l

RT: 2.24 min Scan# 189

Delta R.T. -0.04 min

Lab File: VX018865.D

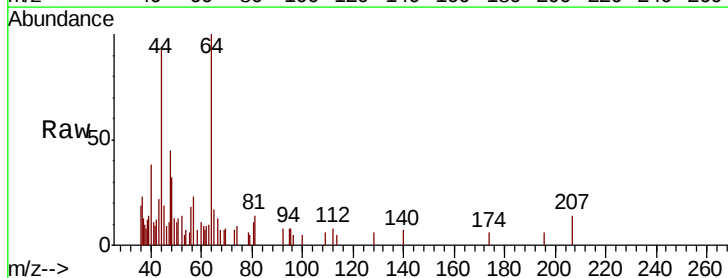
Acq: 09 Oct 2020 19:16

Tgt Ion: 56 Resp: 362

Ion Ratio Lower Upper

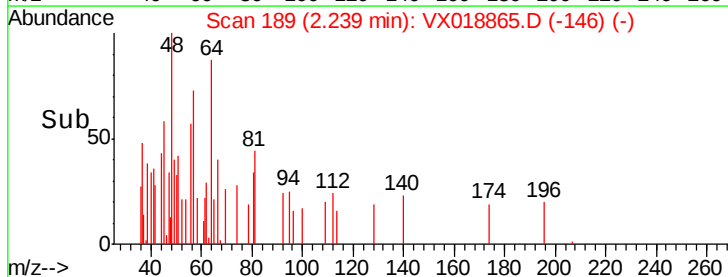
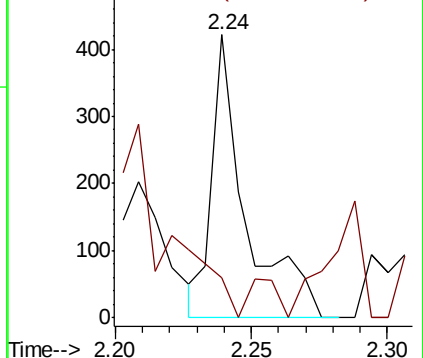
56 100

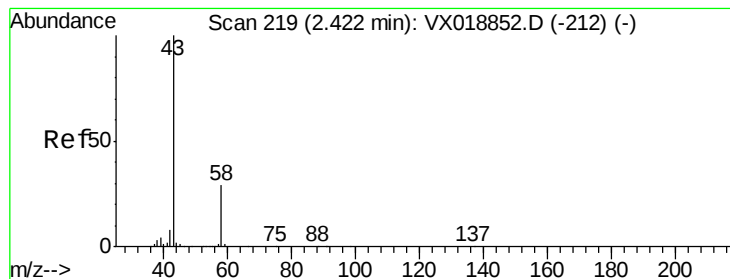
55 11.3 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampleId :

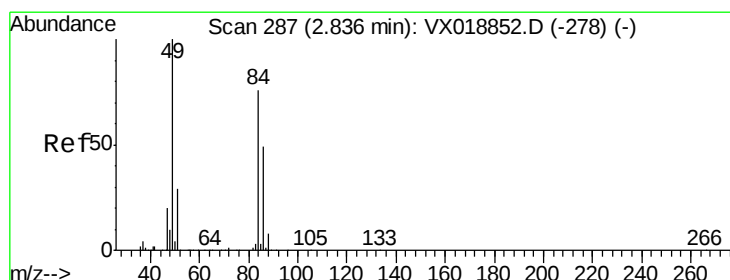
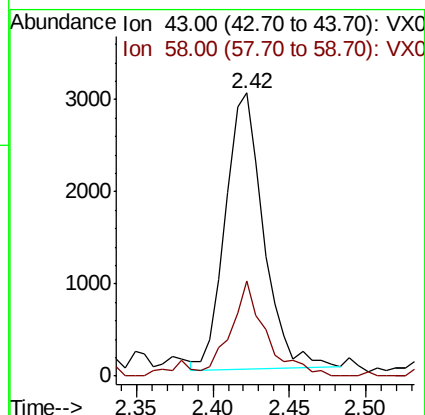
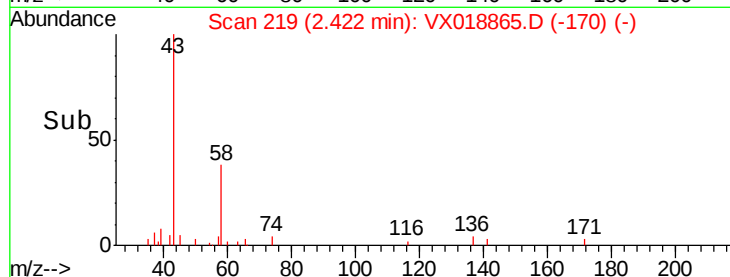
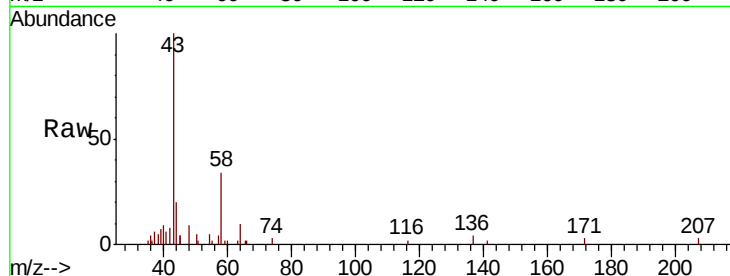
Field Sampling Hourly Rate

Tot Ion: 43 Resp: 5199

Ion Ratio Lower Upper

43 100

58 34.9 23.0 34.4#



#20

Methylene Chloride

Concen: 3.031 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Tgt Ion: 84 Resp: 5692

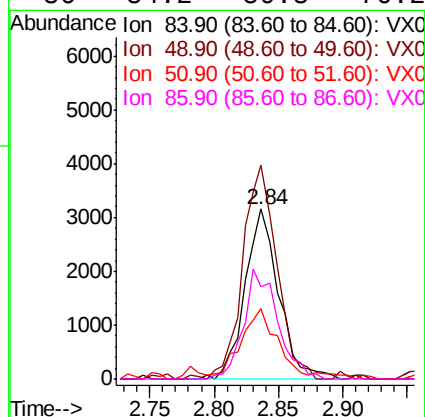
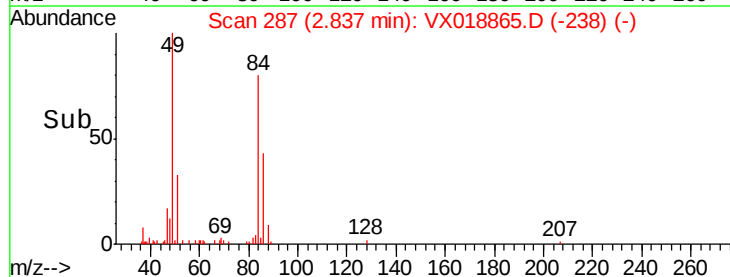
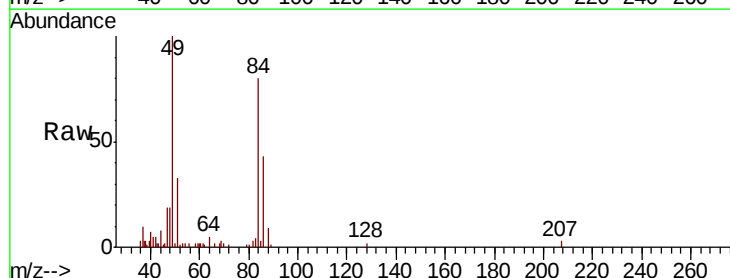
Ion Ratio Lower Upper

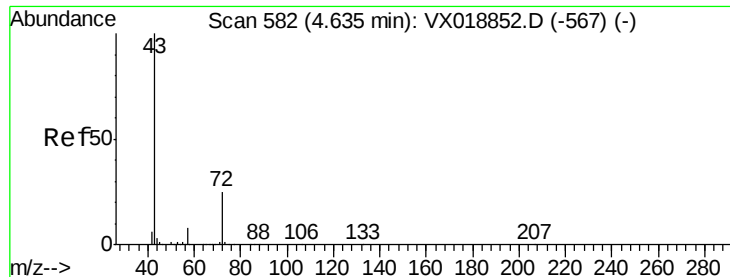
84 100

49 123.2 104.8 157.2

51 39.4 30.6 46.0

86 54.2 50.8 76.2





#25

2-Butanone

Concen: 0.895 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampleId :

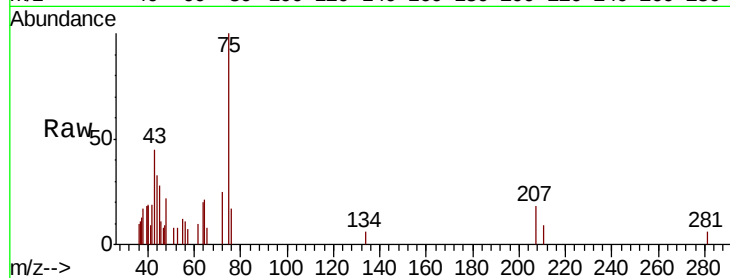
Field Sampling Hourly Rate

Tot Ion: 43 Resp: 1516

Ion Ratio Lower Upper

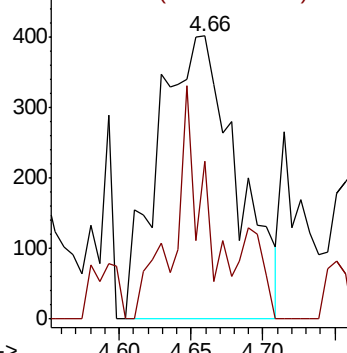
43 100

72 56.0 20.2 30.4#

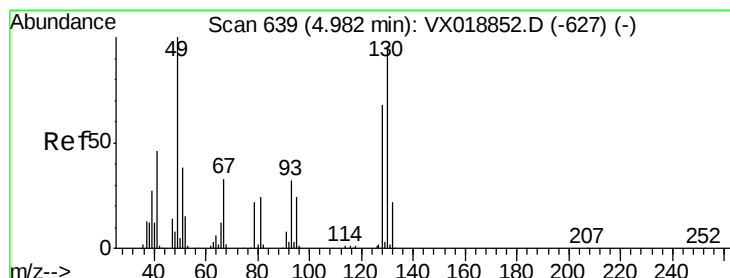
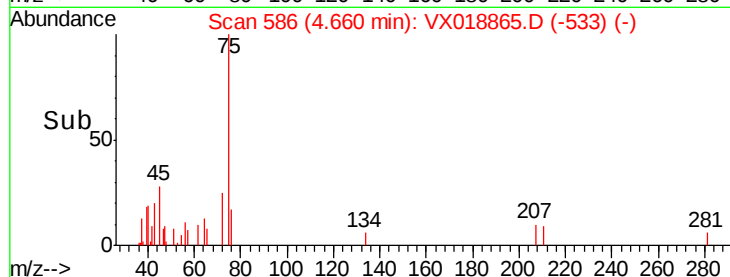


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#28

Bromochloromethane

Concen: 1.617 ug/l

RT: 4.99 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

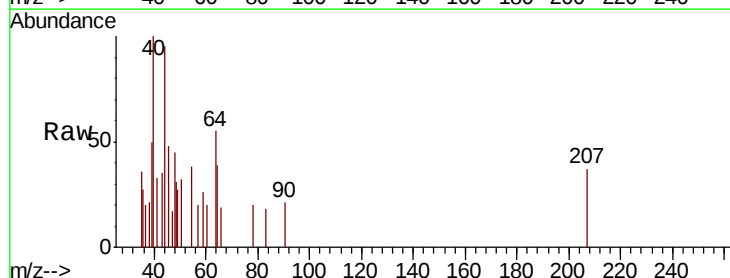
Tgt Ion: 49 Resp: 186

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

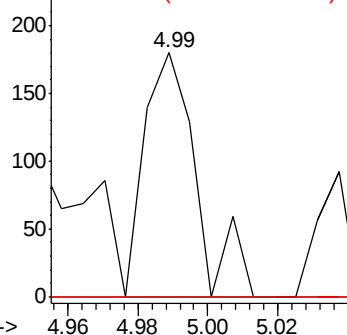
130 0.0 71.2 106.8#



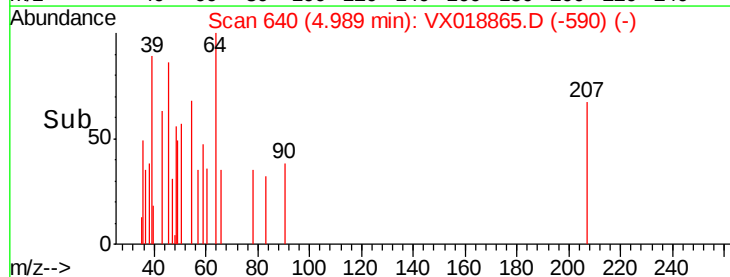
Abundance Ion 48.90 (48.60 to 49.60): VX0

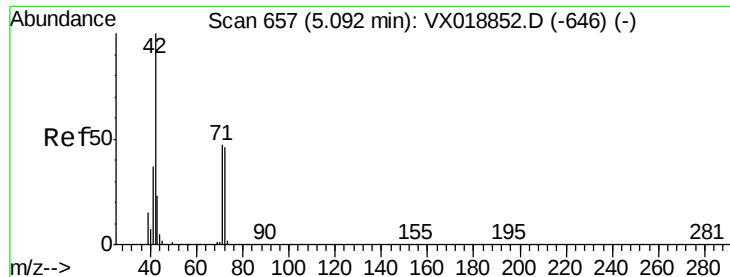
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->





#29

Tetrahydrofuran

Concen: 1.154 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampled :

Field Sampling Hourly Rate

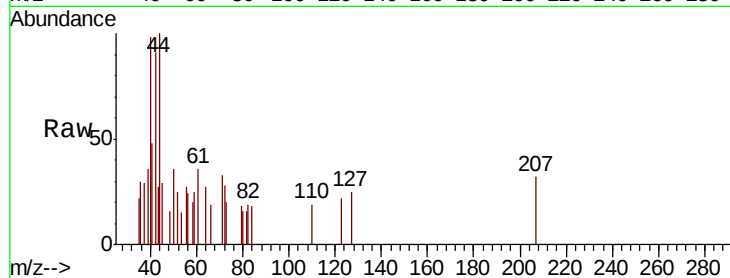
Tot Ion: 42 Resp: 1048

Ion Ratio Lower Upper

42 100

72 18.9 36.4 54.6#

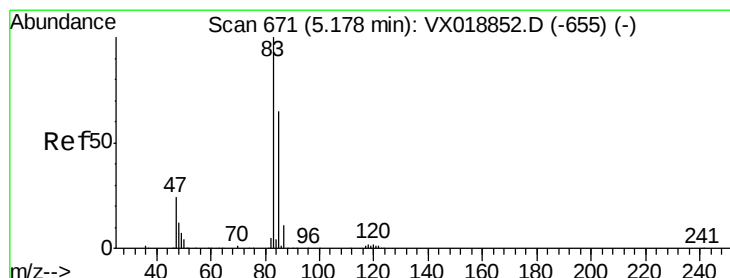
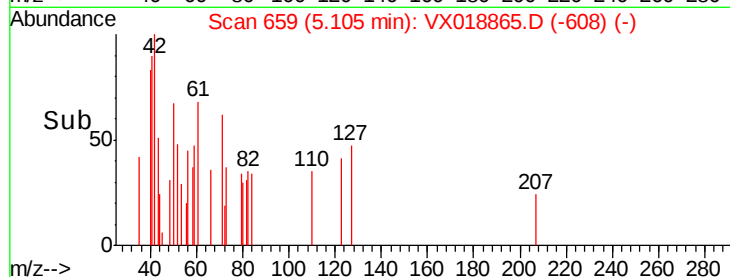
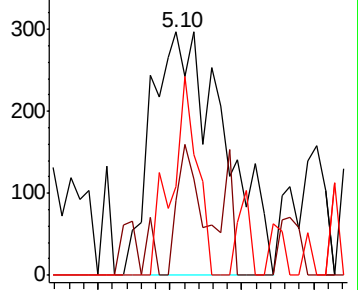
71 28.6 35.2 52.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.307 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.00 min

Lab File: VX018865.D

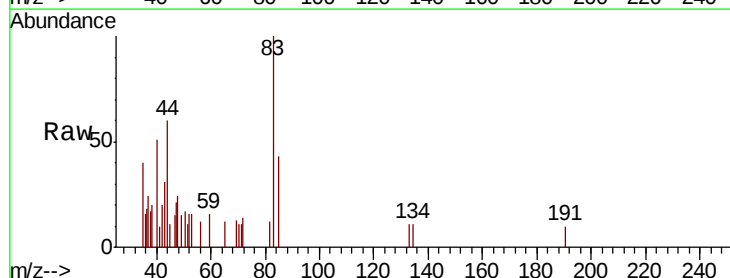
Acq: 09 Oct 2020 19:16

Tgt Ion: 83 Resp: 1445

Ion Ratio Lower Upper

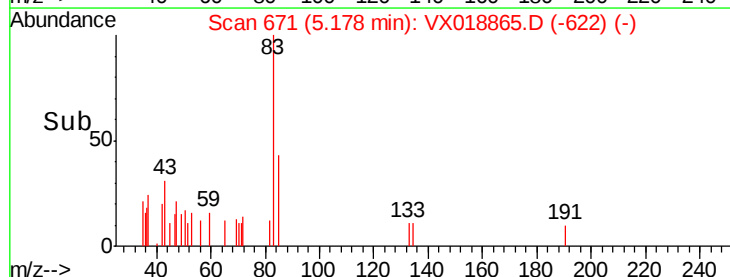
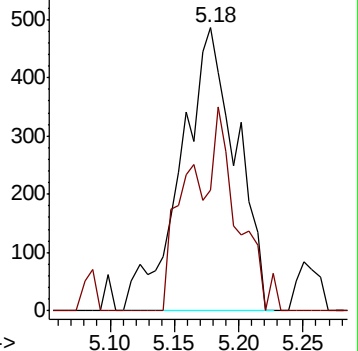
83 100

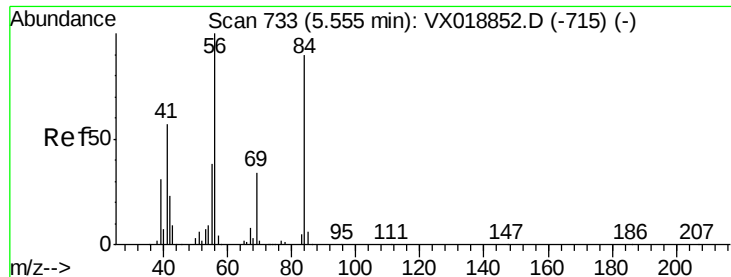
85 42.6 51.8 77.8#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

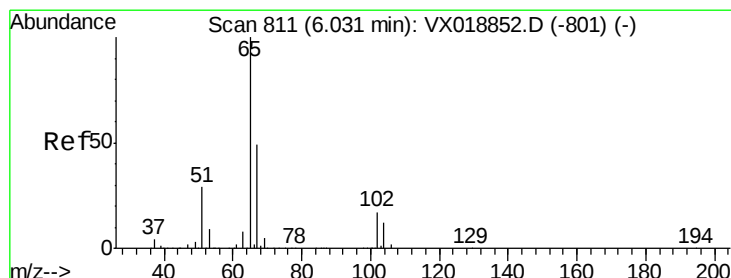
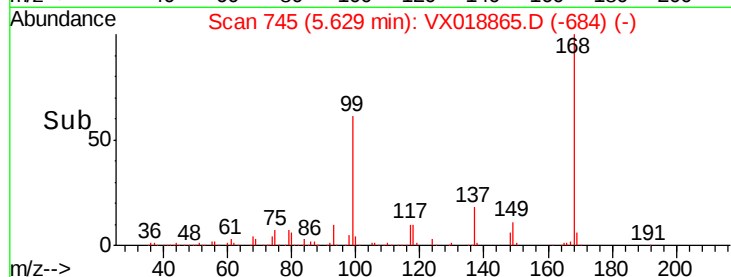
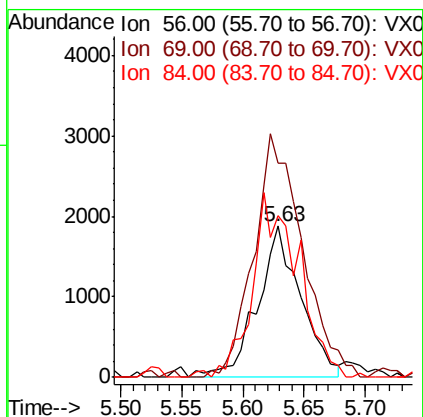
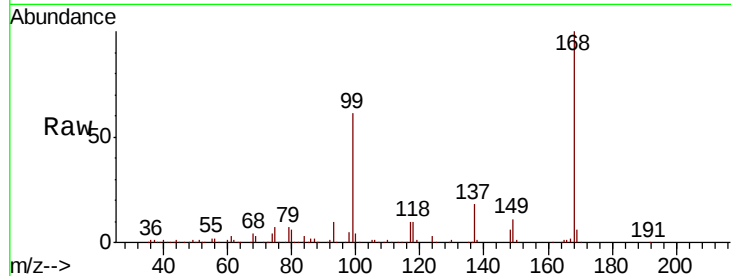




#31
Cyclohexane
Concen: 1.598 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.07 min
Lab File: VX018865.D
Acq: 09 Oct 2020 19:16

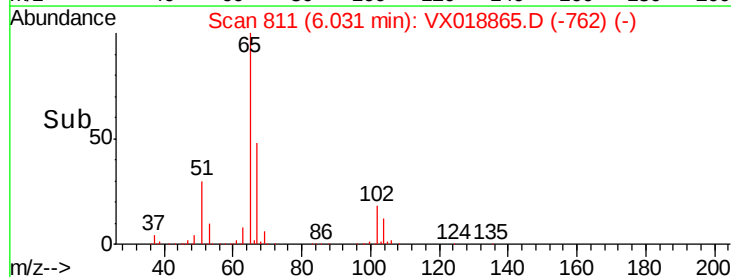
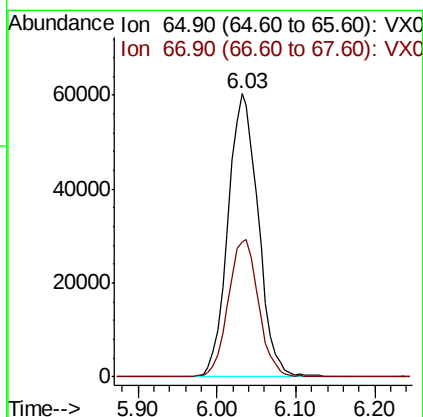
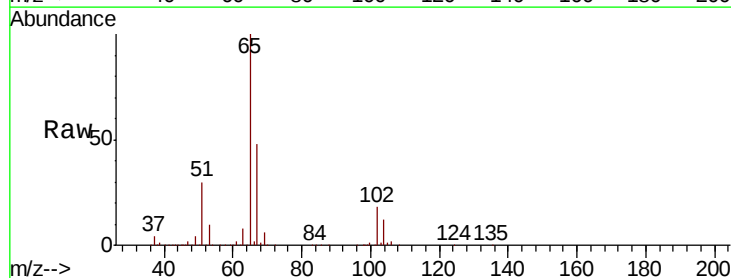
Instrument :
MSVOA_X
ClientSampleId :
Field Sampling Hourly Rate

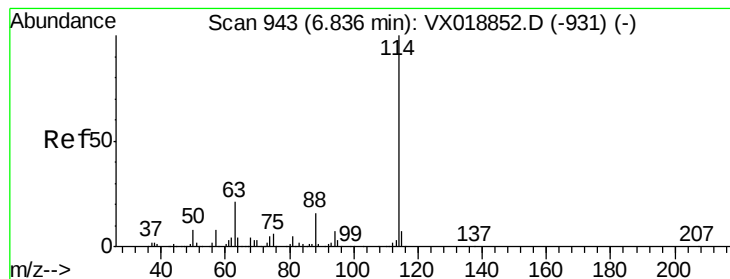
Tot Ion: 56 Resp: 4665
Ion Ratio Lower Upper
56 100
69 141.4 27.1 40.7#
84 106.8 71.7 107.5



#33
1,2-Dichloroethane-d4
Concen: 51.405 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX018865.D
Acq: 09 Oct 2020 19:16

Tgt Ion: 65 Resp: 160689
Ion Ratio Lower Upper
65 100
67 48.7 0.0 97.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampleId :

Field Sampling Hourly Rate

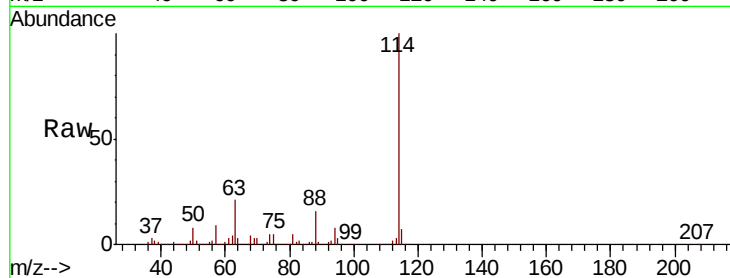
Tot Ion:114 Resp: 342014

Ion Ratio Lower Upper

114 100

63 21.1 0.0 42.4

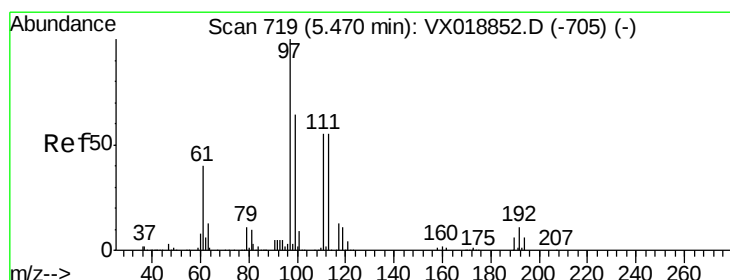
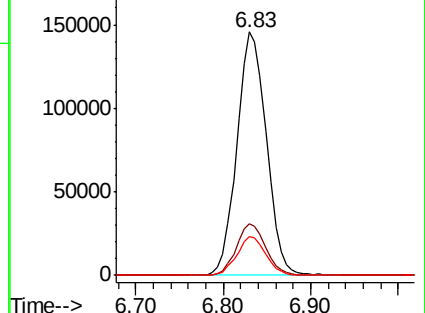
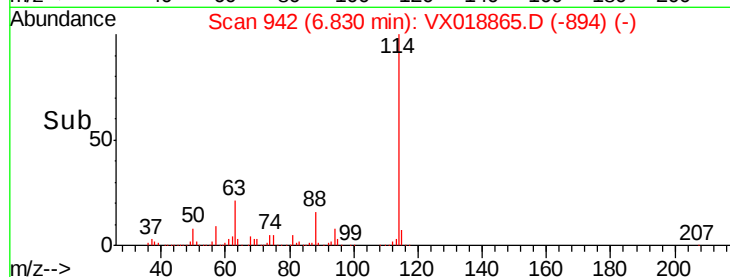
88 16.0 0.0 32.6



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: 48.182 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

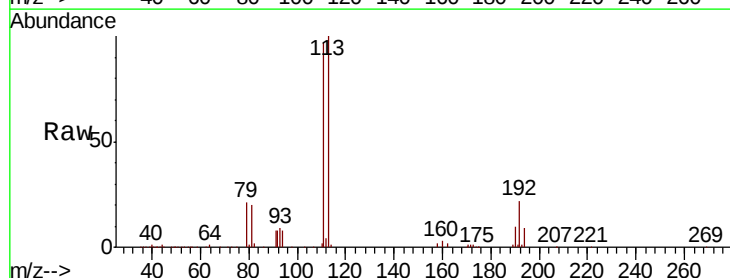
Tgt Ion:113 Resp: 117438

Ion Ratio Lower Upper

113 100

111 103.3 80.1 120.1

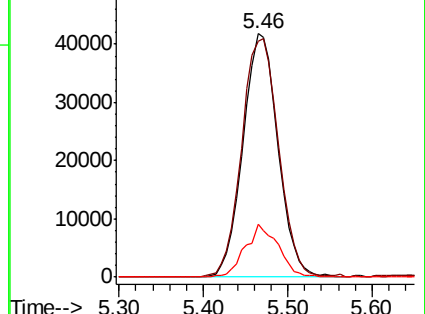
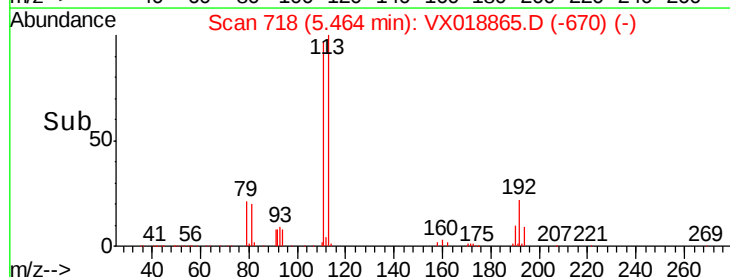
192 20.5 16.0 24.0

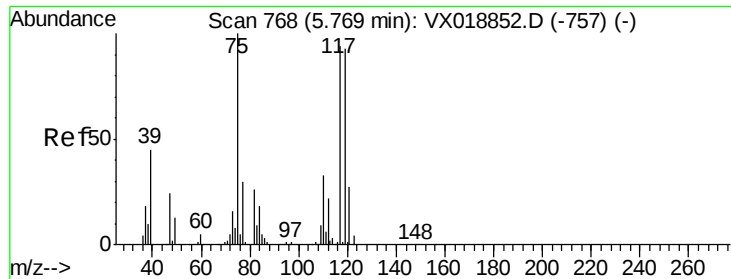


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.500 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampleId :

Field Sampling Hourly Rate

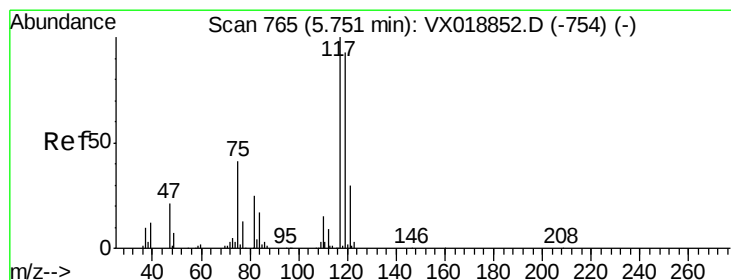
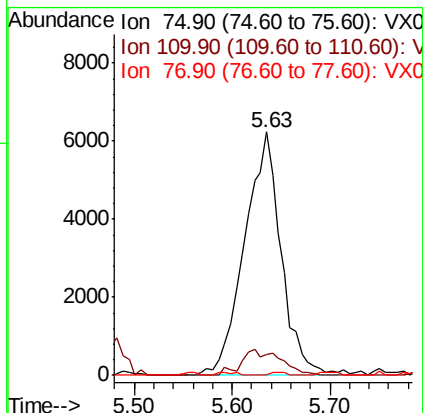
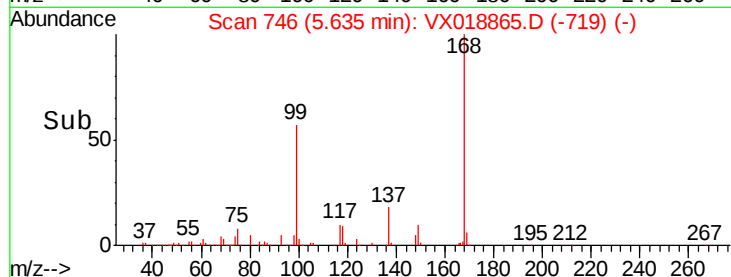
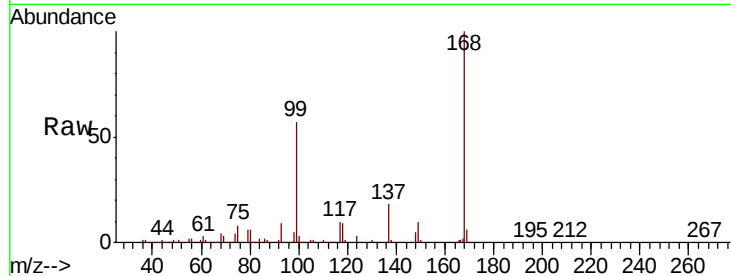
Tot Ion: 75 Resp: 16183

Ion Ratio Lower Upper

75 100

110 11.5 17.8 53.5#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 5.040 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

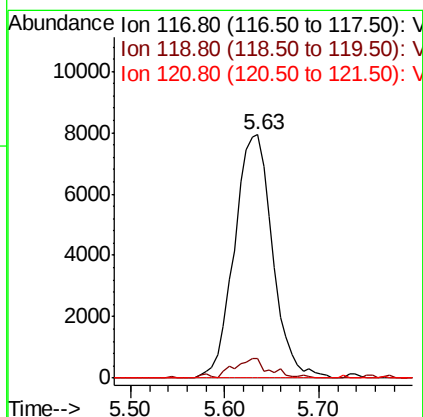
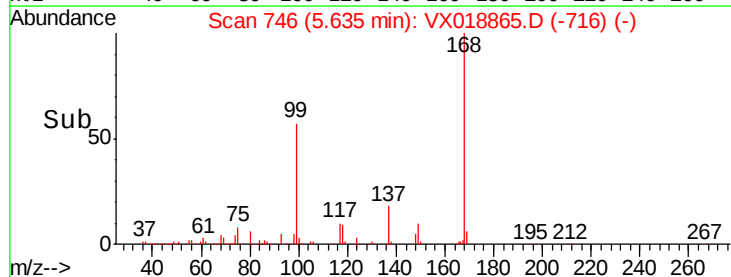
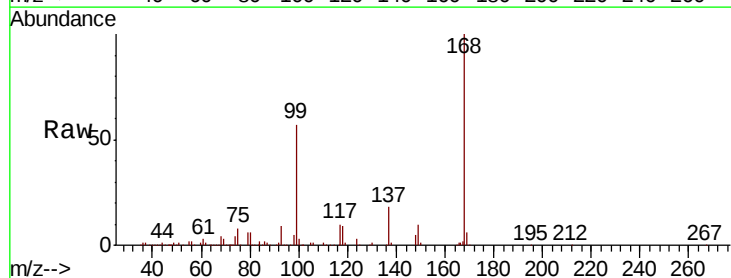
Tgt Ion: 117 Resp: 22463

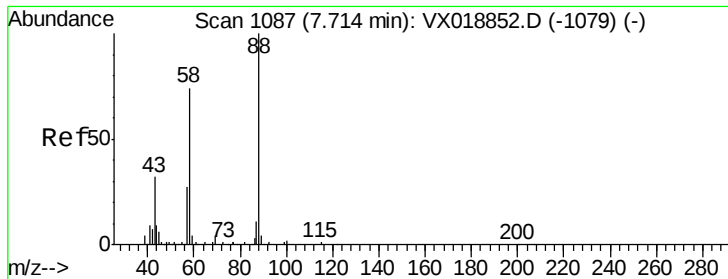
Ion Ratio Lower Upper

117 100

119 8.0 73.9 110.9#

121 0.0 23.6 35.4#





#49

1,4-Dioxane

Concen: 1.145 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampled :

Field Sampling Hourly Rate

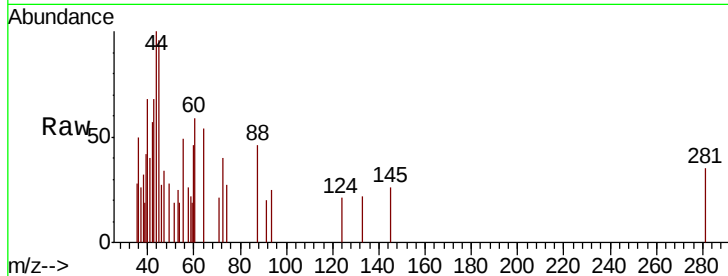
Tot Ion: 88 Resp: 47

Ion Ratio Lower Upper

88 100

43 421.3 31.0 46.6#

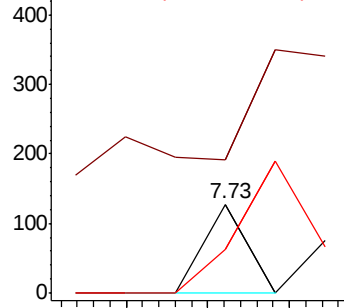
58 248.9 59.3 88.9#



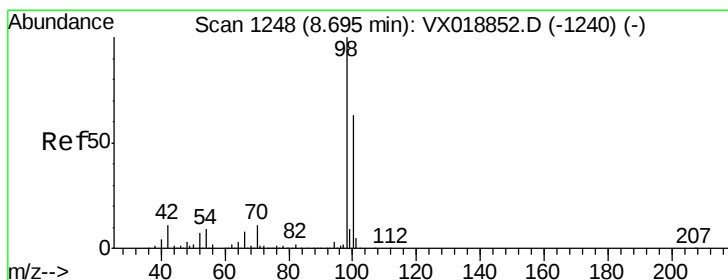
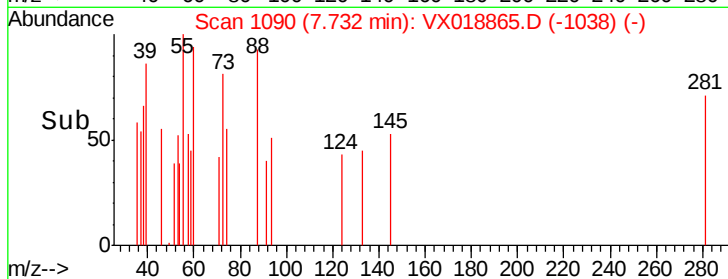
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 49.011 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018865.D

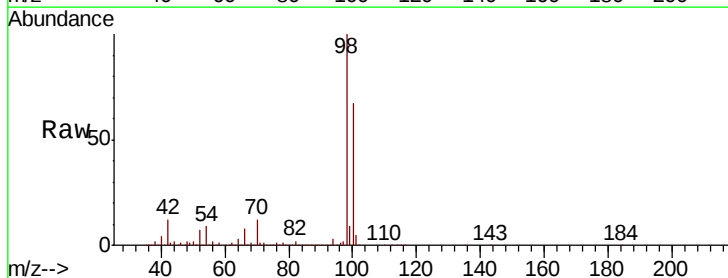
Acq: 09 Oct 2020 19:16

Tgt Ion: 98 Resp: 414380

Ion Ratio Lower Upper

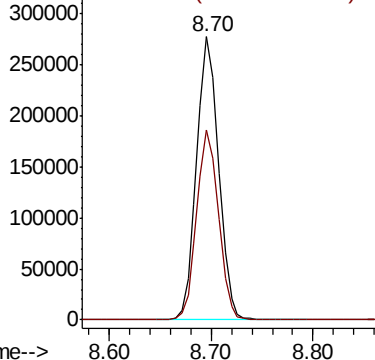
98 100

100 66.5 53.1 79.7

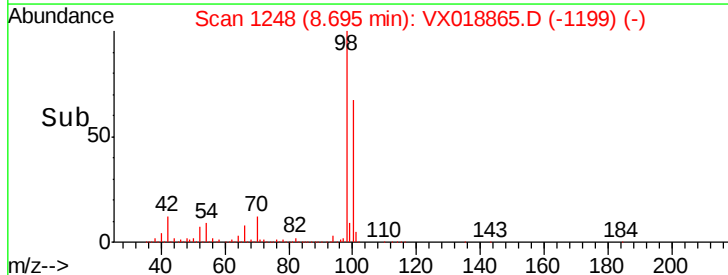


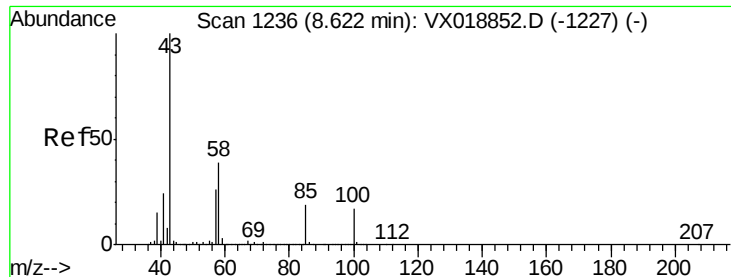
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.660 ug/l

RT: 8.62 min Scan# 1235

Delta R.T. -0.01 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampled :

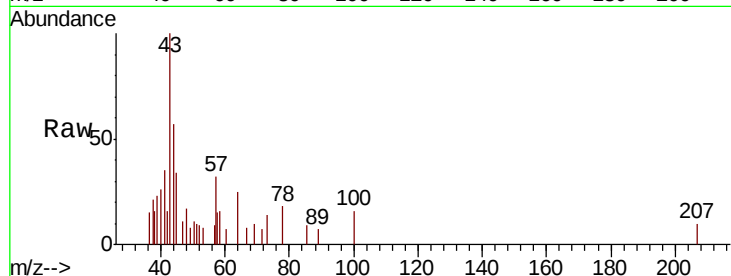
Field Sampling Hourly Rate

Tot Ion: 43 Resp: 2224

Ion Ratio Lower Upper

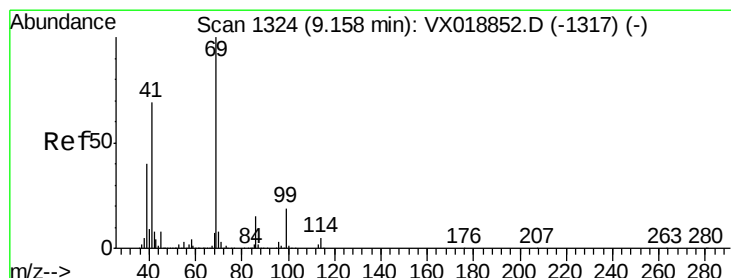
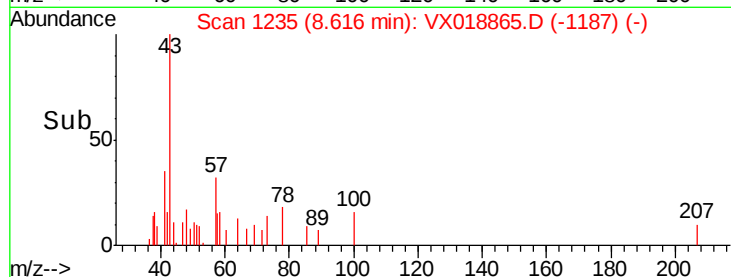
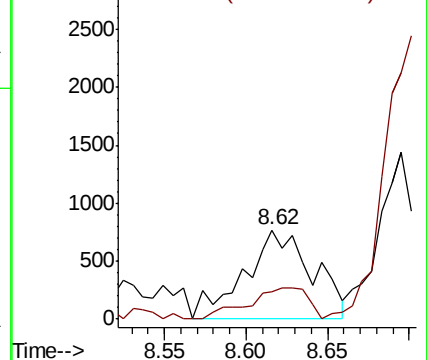
43 100

58 30.6 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#56

Ethyl methacrylate

Concen: 2.948 ug/l

RT: 9.15 min Scan# 1322

Delta R.T. -0.01 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

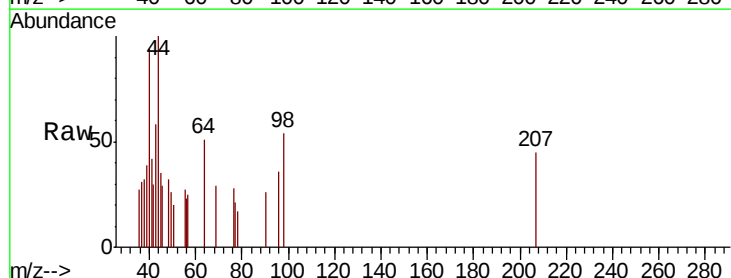
Tgt Ion: 69 Resp: 54

Ion Ratio Lower Upper

69 100

41 270.4 54.6 81.8#

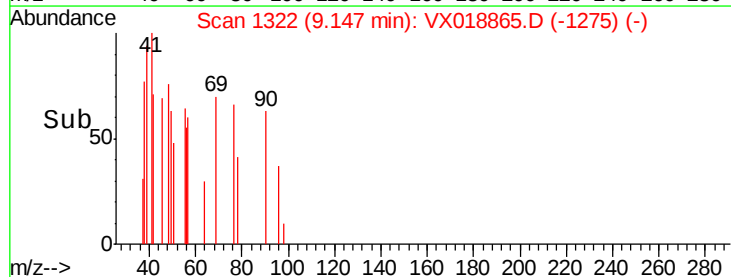
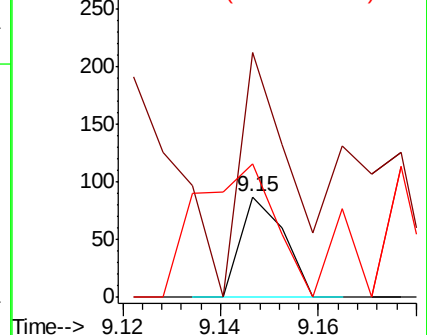
39 237.0 31.5 47.3#

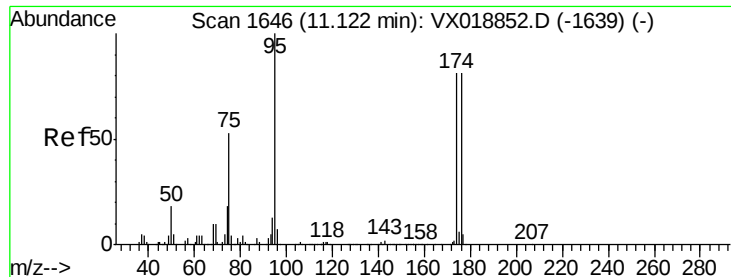


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#62

4-Bromofluorobenzene

Concen: 47.543 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampleId :

Field Sampling Hourly Rate

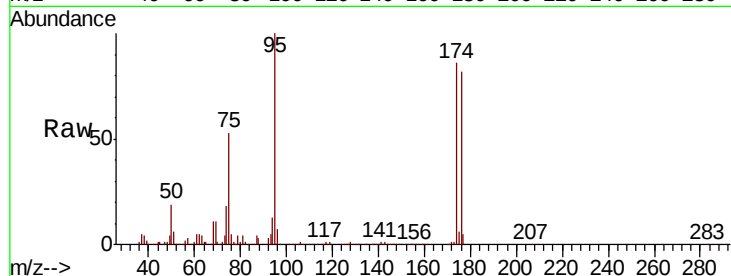
Tot Ion: 95 Resp: 160205

Ion Ratio Lower Upper

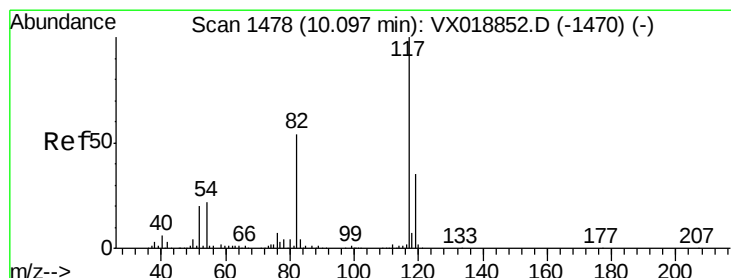
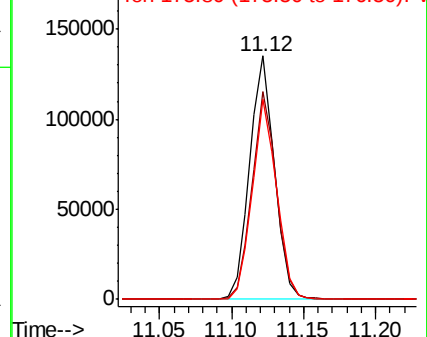
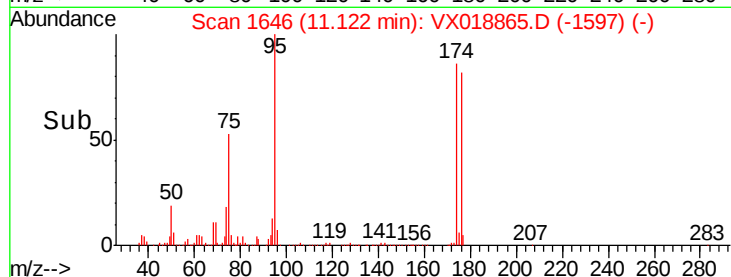
95 100

174 84.0 0.0 160.0

176 80.8 0.0 161.2



Abundance Ion 94.90 (94.60 to 95.60): VX018865.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

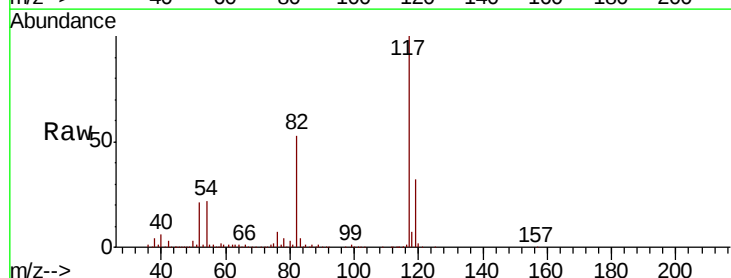
Tgt Ion: 117 Resp: 332777

Ion Ratio Lower Upper

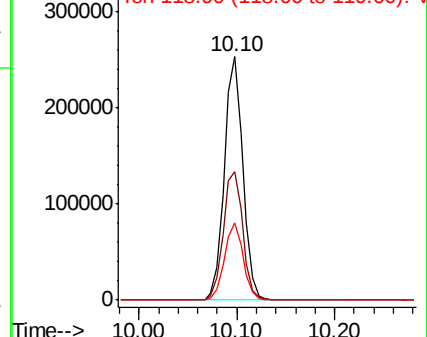
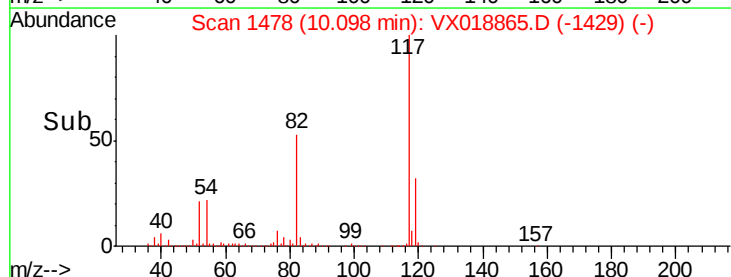
117 100

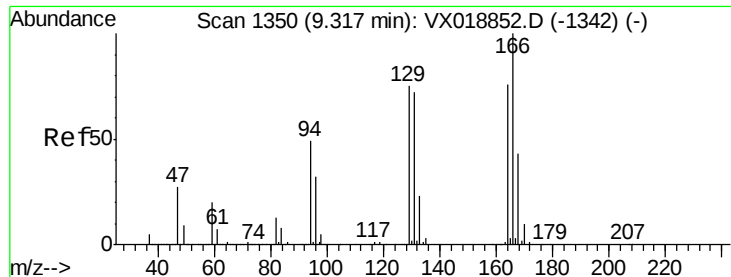
82 52.6 43.4 65.2

119 31.8 28.3 42.5



Abundance Ion 116.90 (116.60 to 117.60): VX018865.D (-1429) (-)

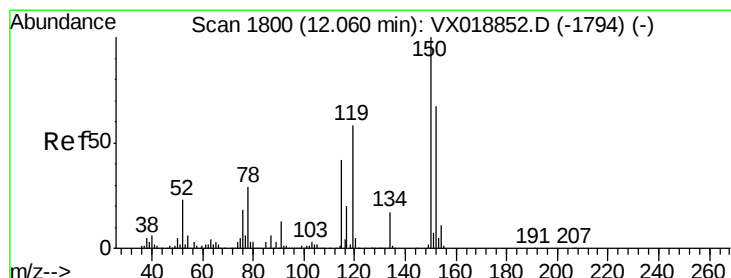
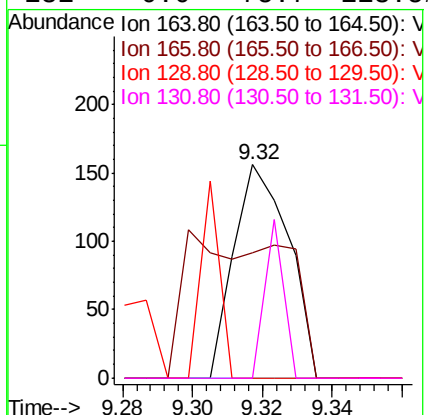
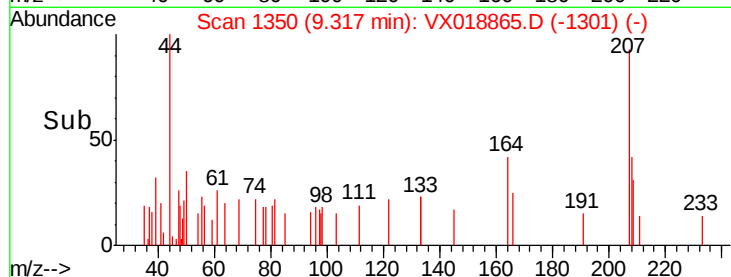
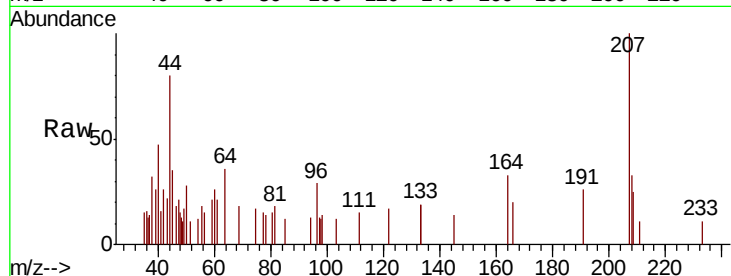




#64
Tetrachloroethene
Concen: Below Cal
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX018865.D
Acq: 09 Oct 2020 19:16

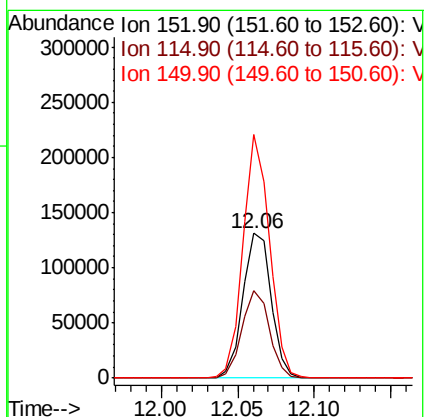
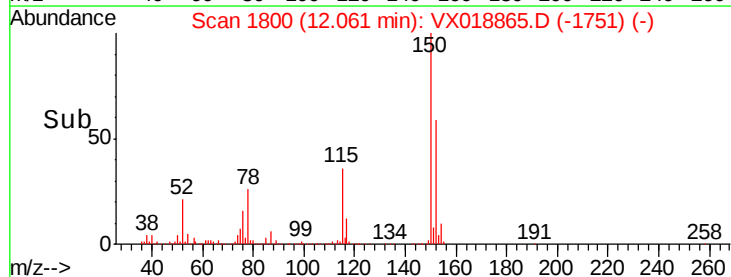
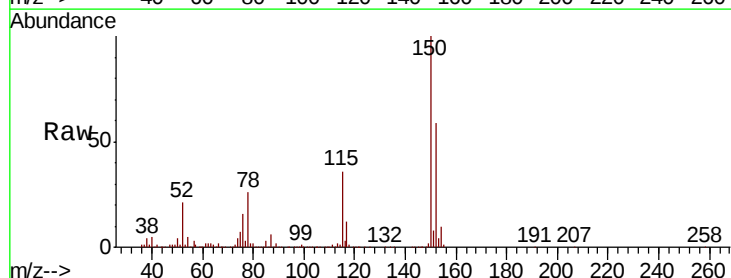
Instrument :
MSVOA_X
ClientSampleId :
Field Sampling Hourly Rate

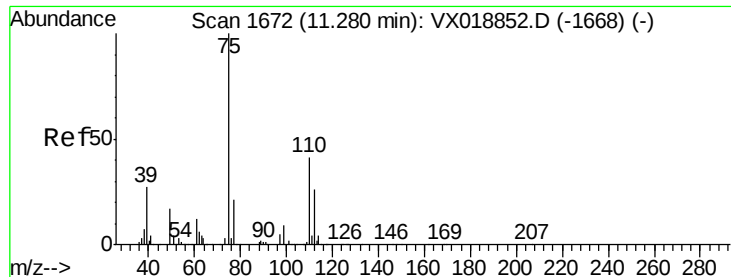
Tot Ion:164 Resp: 170
Ion Ratio Lower Upper
164 100
166 59.0 105.4 158.0#
129 0.0 79.0 118.6#
131 0.0 75.7 113.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX018865.D
Acq: 09 Oct 2020 19:16

Tgt Ion:152 Resp: 168152
Ion Ratio Lower Upper
152 100
115 59.2 41.8 125.4
150 157.9 0.0 347.6





#76

1,2,3-Trichloropropane

Concen: 24.135 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

Instrument :

MSVOA_X

ClientSampleId :

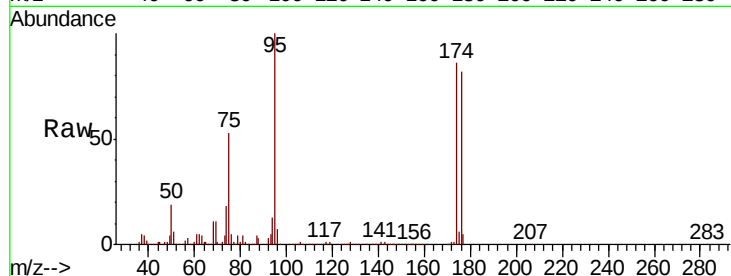
Field Sampling Hourly Rate

Tot Ion: 75 Resp: 87444

Ion Ratio Lower Upper

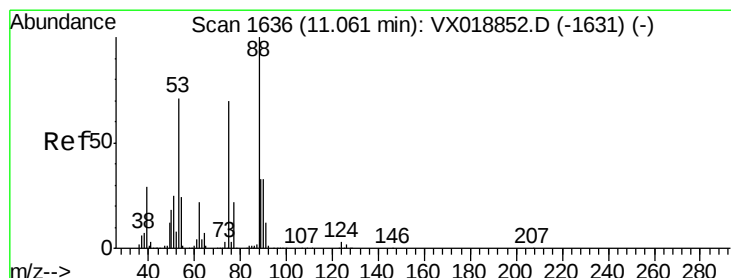
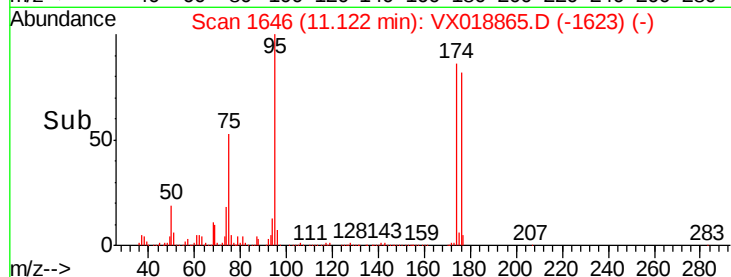
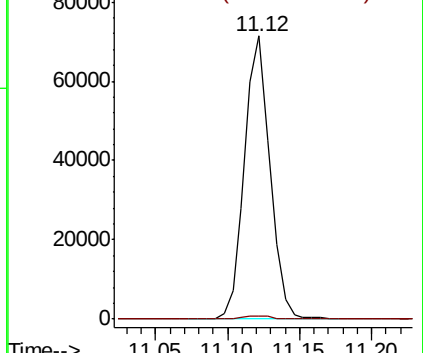
75 100

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: 68.397 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018865.D

Acq: 09 Oct 2020 19:16

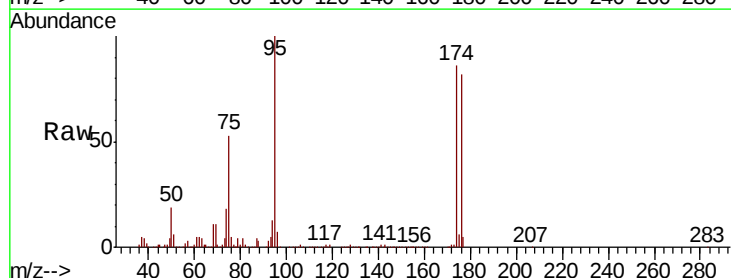
Tgt Ion: 75 Resp: 87444

Ion Ratio Lower Upper

75 100

53 0.6 85.0 127.4#

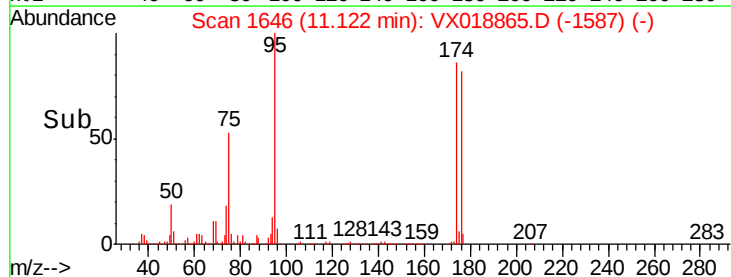
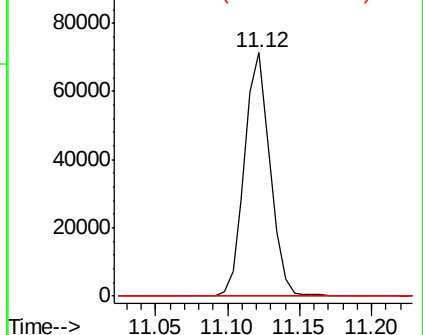
89 0.0 39.0 58.4#

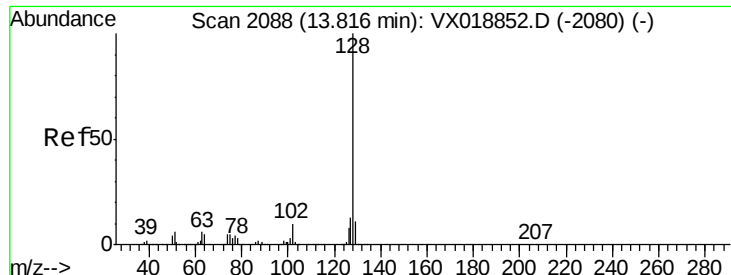


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

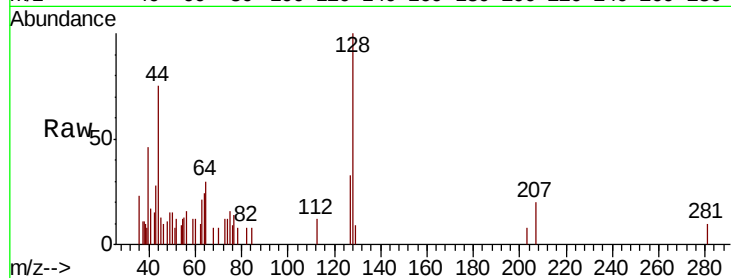




#95
Naphthalene
Concen: 3.145 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX018865.D
Acq: 09 Oct 2020 19:16

Instrument :
MSVOA_X
ClientSampleId :
Field Sampling Hourly Rate

Tot Ion	Ratio	Lower	Upper
128	100		
127	21.6	10.1	15.1#
129	20.1	8.6	13.0#



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

