

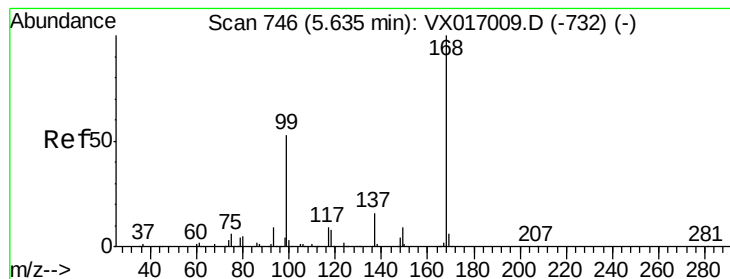
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071020\
 Data File : VX017340.D
 Acq On : 10 Jul 2020 17:04
 Operator : JC/SP
 Sample : L3247-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 11 01:03:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	257149	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	427576	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	462517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	240485	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	164448	51.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.74%	
35) Dibromofluoromethane	5.47	113	140538	51.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.92%	
50) Toluene-d8	8.70	98	530074	53.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.00%	
62) 4-Bromofluorobenzene	11.12	95	225471	57.67	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.34%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	716	0.485	ug/l #	32
8) Diethyl Ether	2.17	74	2221	1.951	ug/l	100
11) Tert butyl alcohol	3.03	59	750	1.240	ug/l #	94
13) Acrolein	2.26	56	273	0.755	ug/l #	76
16) Acetone	2.42	43	29350	24.749	ug/l	100
17) Carbon Disulfide	2.55	76	1642	0.254	ug/l #	83
18) Methyl Acetate	2.75	43	3991	1.289	ug/l	92
20) Methylene Chloride	2.84	84	48824	17.441	ug/l	100
25) 2-Butanone	4.65	43	3911	1.979	ug/l	94
29) Tetrahydrofuran	5.11	42	755	0.578	ug/l #	66
31) Cyclohexane	5.62	56	5074	1.186	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18209	4.506	ug/l #	46
38) Carbon Tetrachloride	5.64	117	24476	5.499	ug/l #	17
40) Benzene	6.12	78	4674	0.394	ug/l	92
43) Isopropyl Acetate	6.42	43	76239	11.190	ug/l	100
44) Trichloroethene	7.18	130	104	Below Cal		97
48) Methyl methacrylate	7.65	41	4590	1.418	ug/l #	15
49) 1,4-Dioxane	7.68	88	52	0.709	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	71843	17.689	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	32528	6.410	ug/l #	63
57) 1,3-Dichloropropane	9.52	76	5359	1.046	ug/l #	44
59) 2-Hexanone	9.42	43	86172	29.052	ug/l #	23
74) N-amyl acetate	10.81	43	3136	0.467	ug/l #	49
76) 1,2,3-Trichloropropane	11.12	75	112975	23.890	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	112975	61.866	ug/l #	13
88) 1,4-Dichlorobenzene	12.07	146	702	Below Cal	#	1
94) Hexachlorobutadiene	13.76	225	177	0.936	ug/l #	27

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017340.D

Acq: 10 Jul 2020 17:04

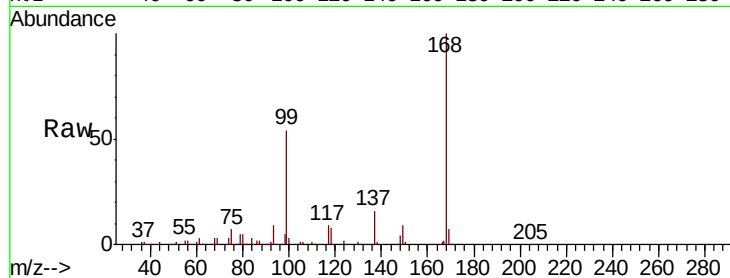
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 257149

Ion Ratio Lower Upper

168 100

99 53.9 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

100000

80000

60000

40000

20000

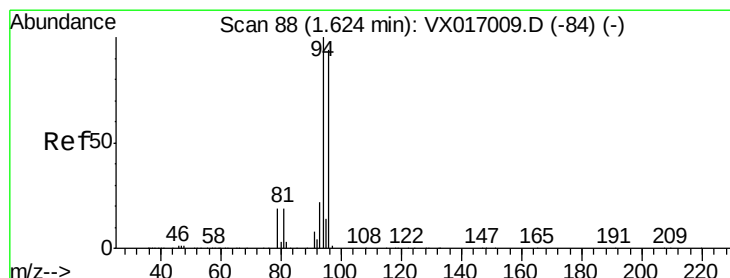
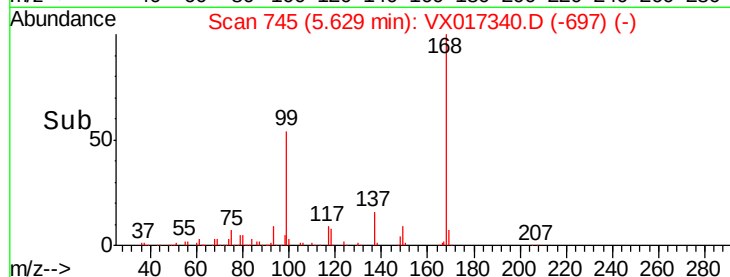
0

5.50

5.63

5.70

Time-->



#5

Bromomethane

Concen: 0.485 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017340.D

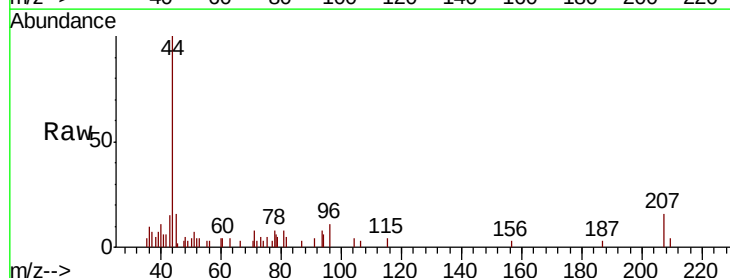
Acq: 10 Jul 2020 17:04

Tgt Ion: 94 Resp: 716

Ion Ratio Lower Upper

94 100

96 28.5 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

200

100

0

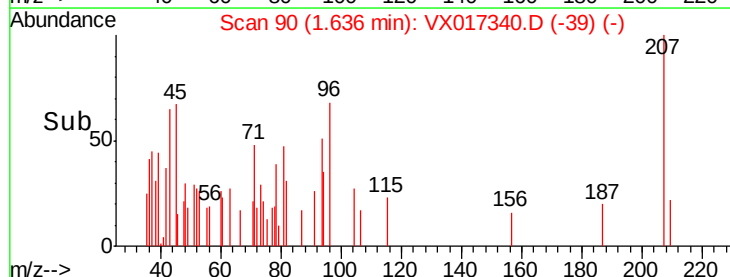
1.55

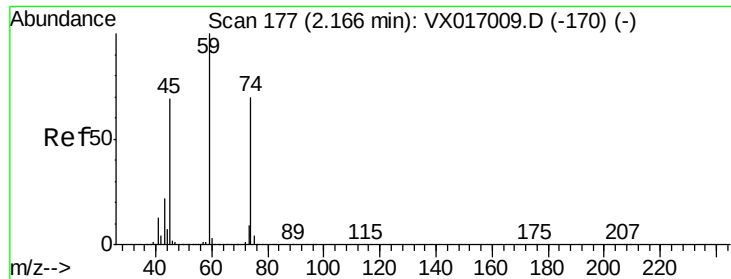
1.60

1.64

1.65

Time-->





#8

Diethyl Ether

Concen: 1.951 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017340.D

Acq: 10 Jul 2020 17:04

Instrument :

MSVOA_X

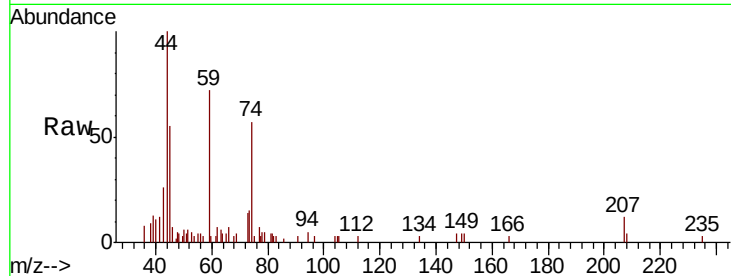
ClientSampled :

Tot Ion: 74 Resp: 2221

Ion Ratio Lower Upper

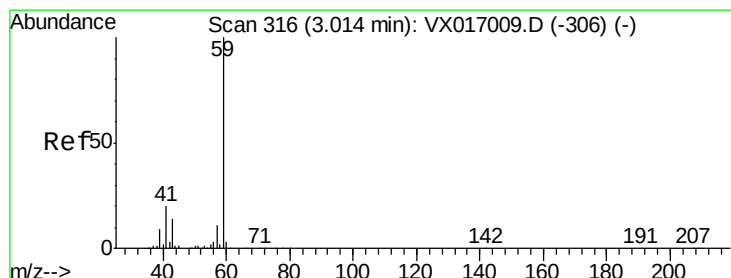
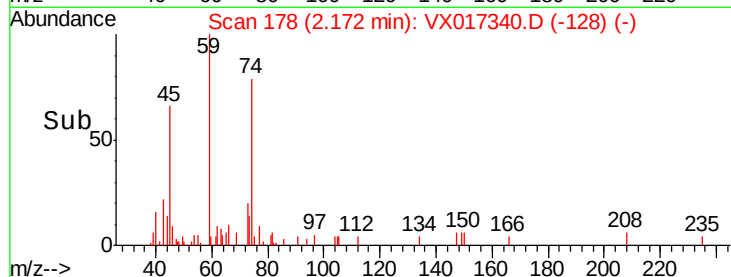
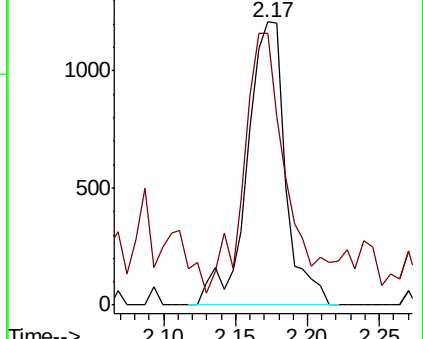
74 100

45 99.6 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 1.240 ug/l

RT: 3.03 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX017340.D

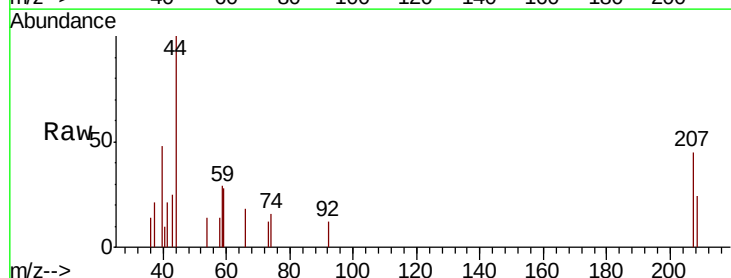
Acq: 10 Jul 2020 17:04

Tgt Ion: 59 Resp: 750

Ion Ratio Lower Upper

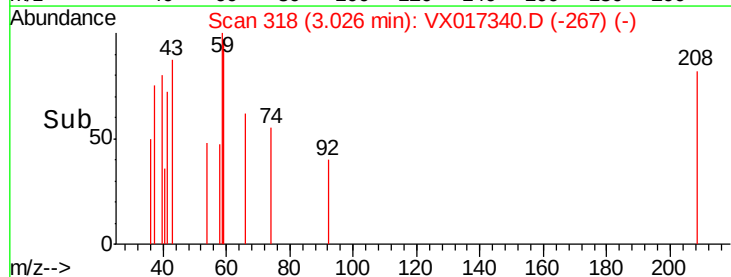
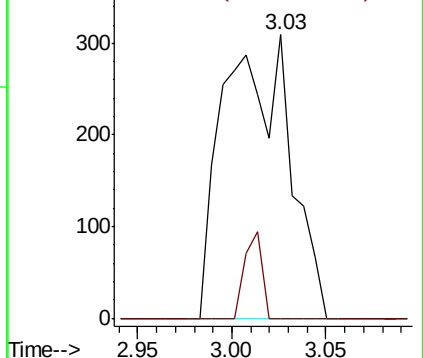
59 100

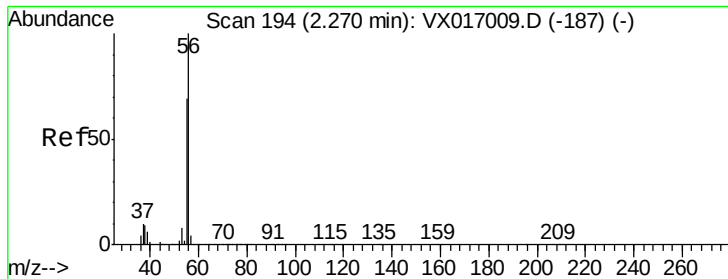
57 8.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.755 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.01 min

Lab File: VX017340.D

Acq: 10 Jul 2020 17:04

Instrument :

MSVOA_X

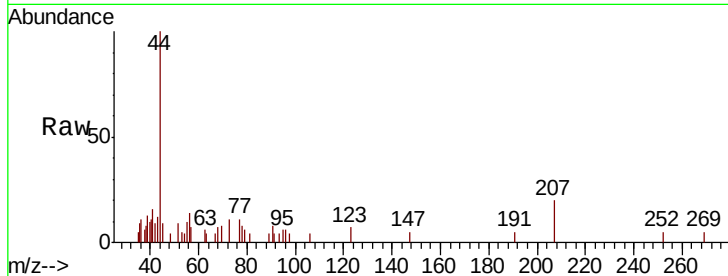
ClientSampleId :

Tot Ion: 56 Resp: 273

Ion Ratio Lower Upper

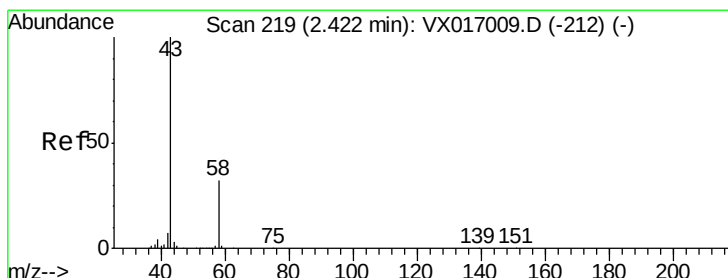
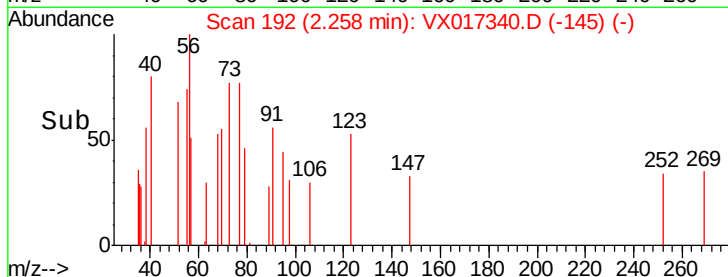
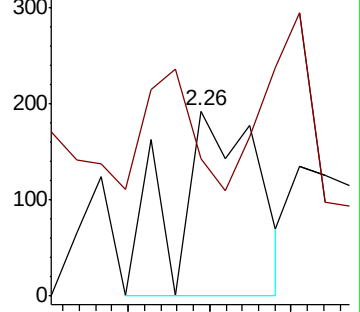
56 100

55 49.8 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 24.749 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017340.D

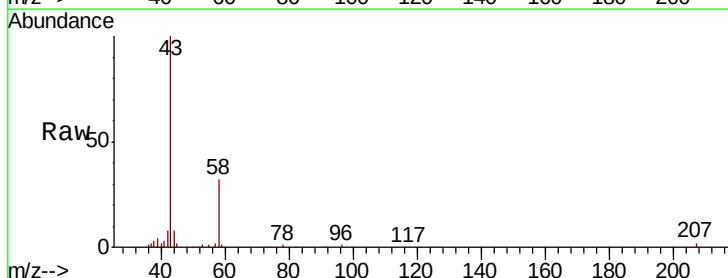
Acq: 10 Jul 2020 17:04

Tgt Ion: 43 Resp: 29350

Ion Ratio Lower Upper

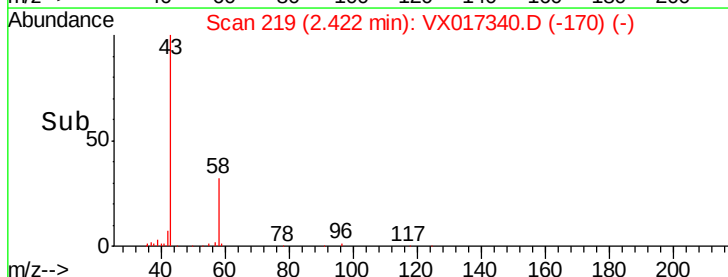
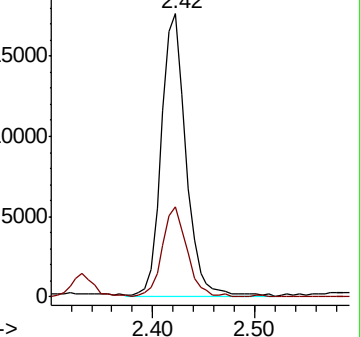
43 100

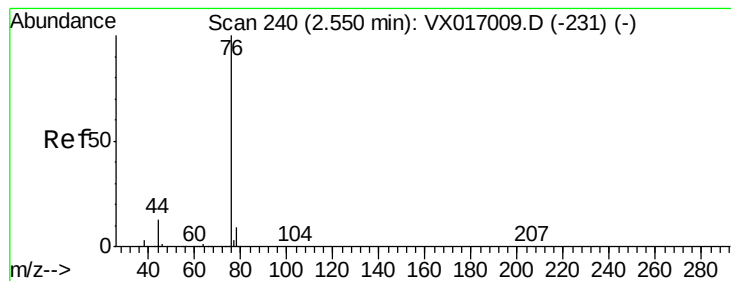
58 32.0 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.254 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017340.D

Acq: 10 Jul 2020 17:04

Instrument :

MSVOA_X

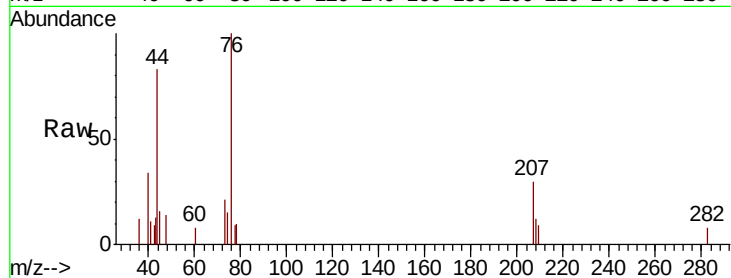
ClientSampleId :

Tot Ion: 76 Resp: 1642

Ion Ratio Lower Upper

76 100

78 3.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.55

800

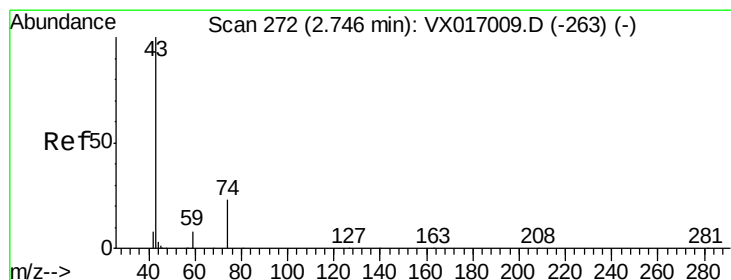
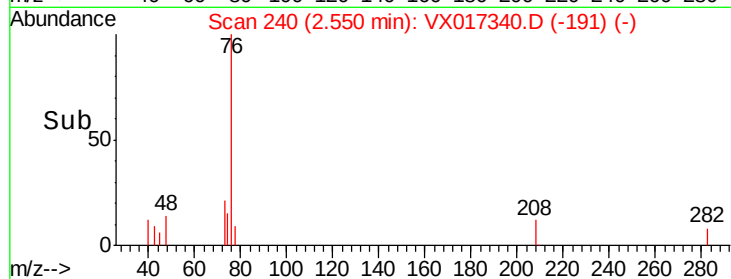
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: 1.289 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.00 min

Lab File: VX017340.D

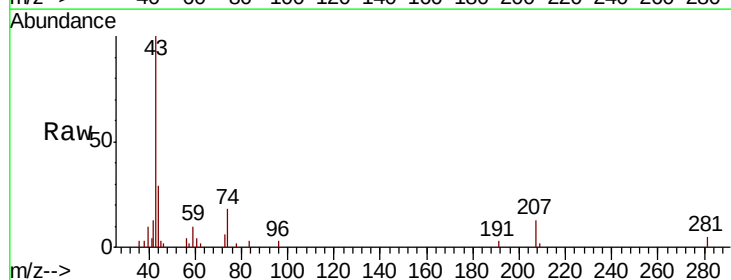
Acq: 10 Jul 2020 17:04

Tgt Ion: 43 Resp: 3991

Ion Ratio Lower Upper

43 100

74 19.9 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.75

2500

2000

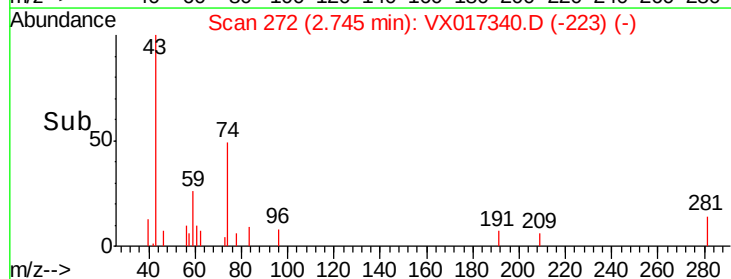
1500

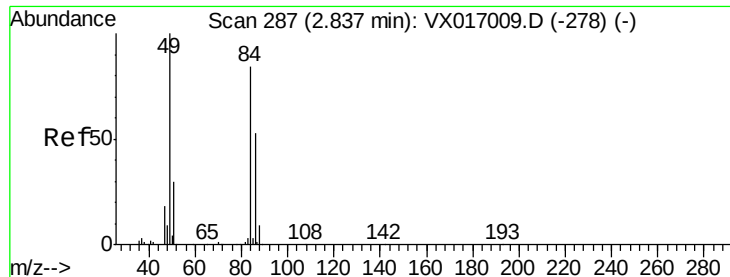
1000

500

0

Time-->

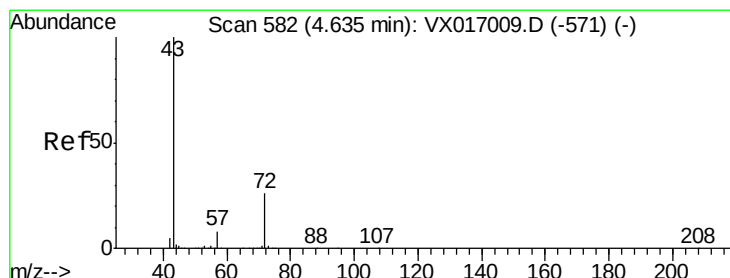
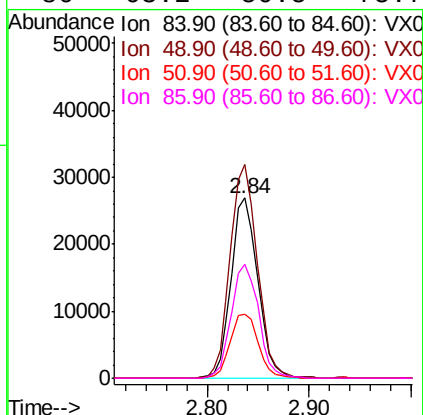
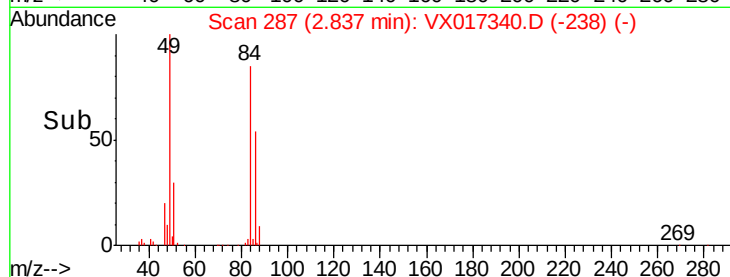
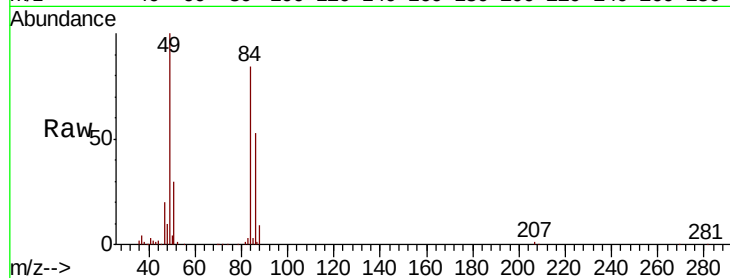




#20
Methvlene Chloride
Concen: 17.441 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

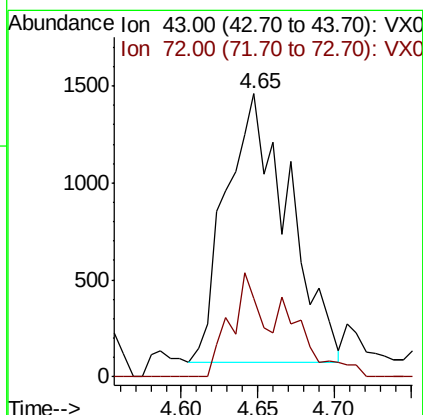
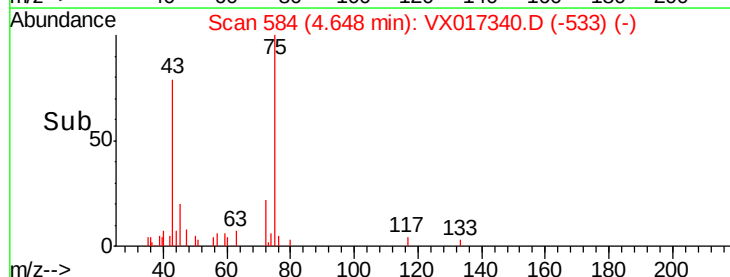
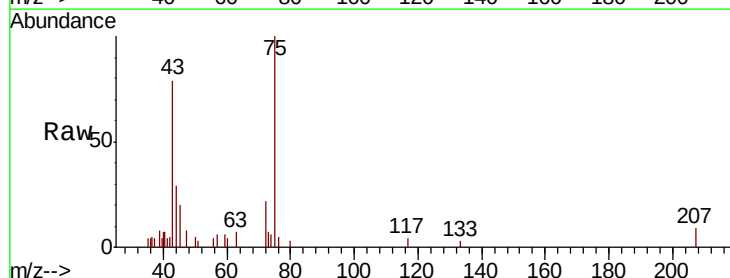
Instrument :
MSVOA_X
ClientSampleId :

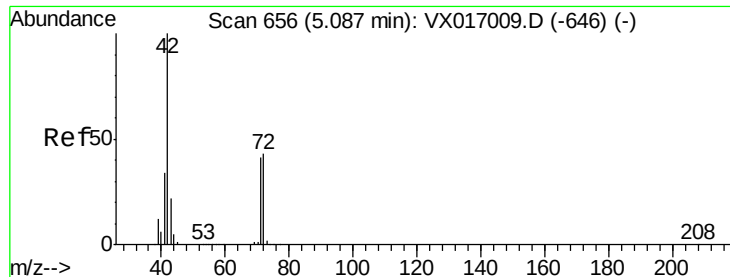
Tot Ion: 84 Resp: 48824
Ion Ratio Lower Upper
84 100
49 118.5 94.7 142.1
51 35.6 28.6 42.8
86 63.2 50.5 75.7



#25
2-Butanone
Concen: 1.979 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

Tgt Ion: 43 Resp: 3911
Ion Ratio Lower Upper
43 100
72 29.1 20.8 31.2

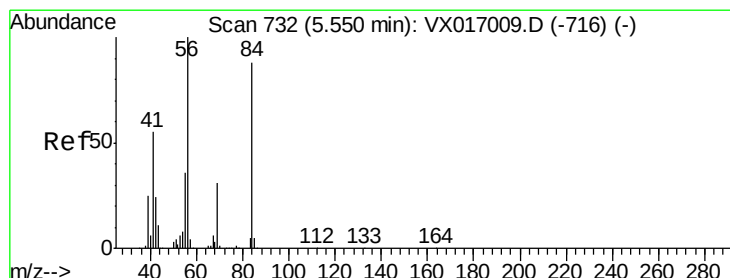
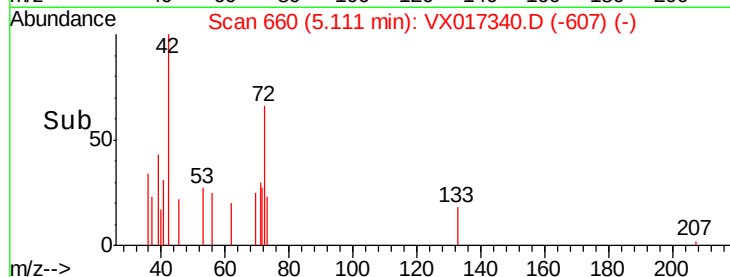
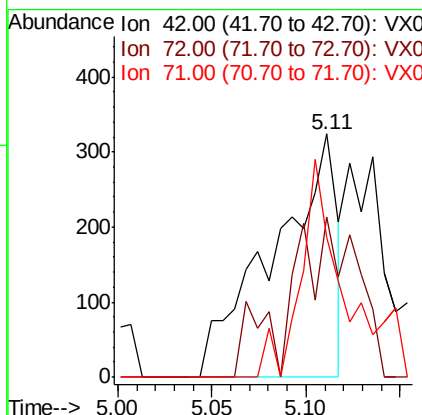
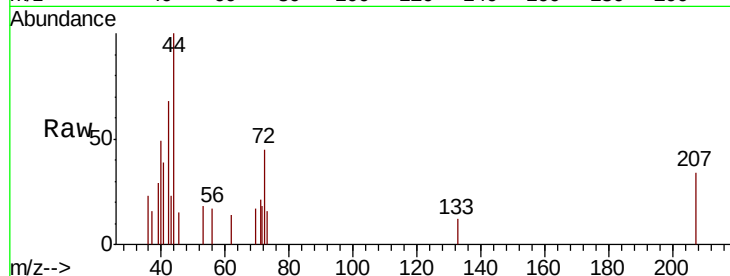




#29
Tetrahydrofuran
Concen: 0.578 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

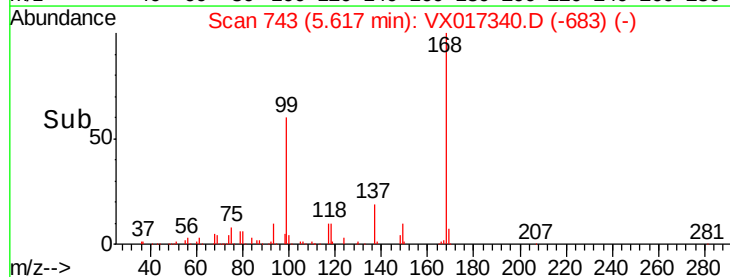
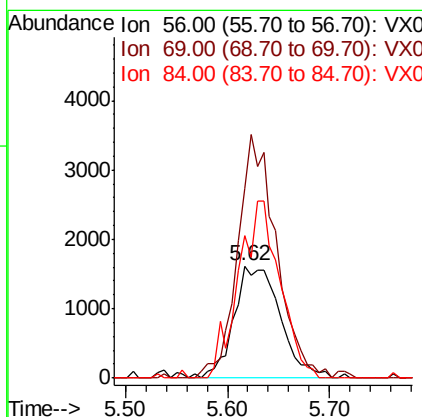
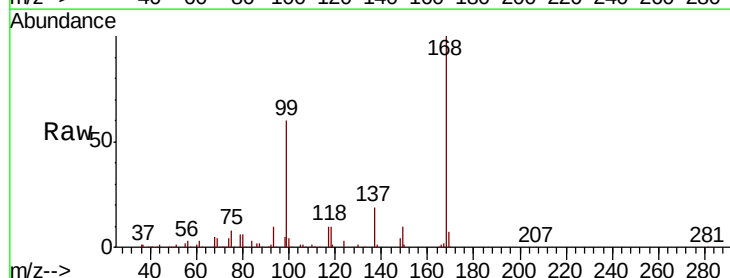
Instrument :
MSVOA_X
ClientSampleId :

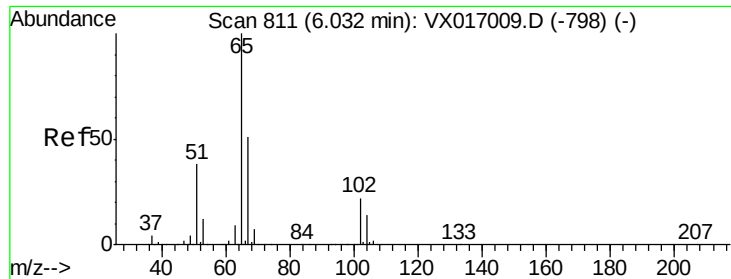
Tot Ion: 42 Resp: 755
Ion Ratio Lower Upper
42 100
72 21.6 35.3 52.9#
71 62.1 33.1 49.7#



#31
Cyclohexane
Concen: 1.186 ug/l
RT: 5.62 min Scan# 743
Delta R.T. 0.07 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

Tgt Ion: 56 Resp: 5074
Ion Ratio Lower Upper
56 100
69 169.3 25.0 37.4#
84 127.4 69.1 103.7#

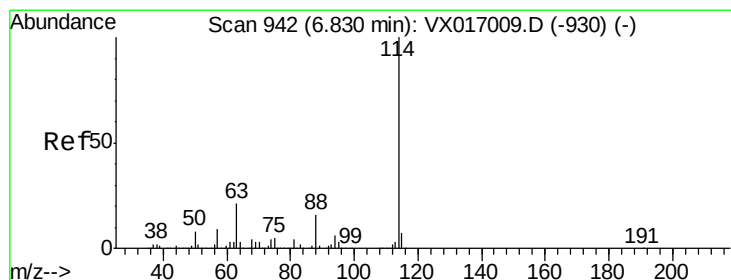
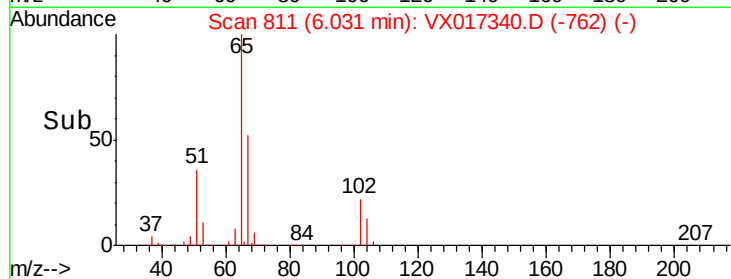
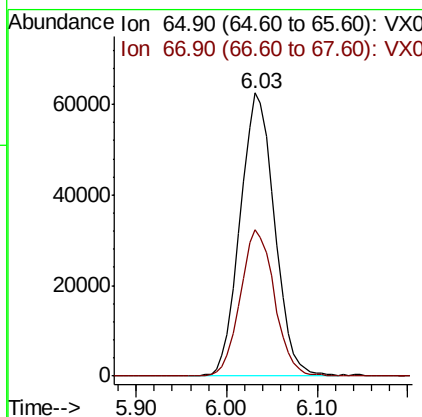
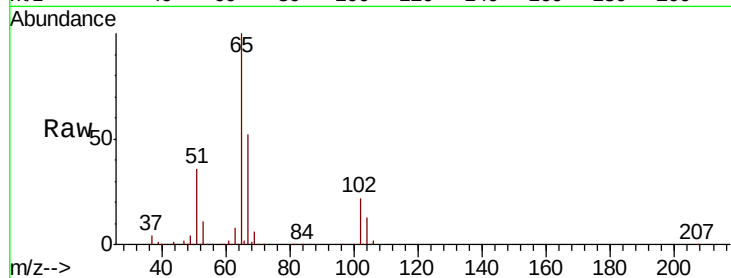




#33
 1,2-Dichloroethane-d4
 Concen: 51.874 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017340.D
 Acq: 10 Jul 2020 17:04

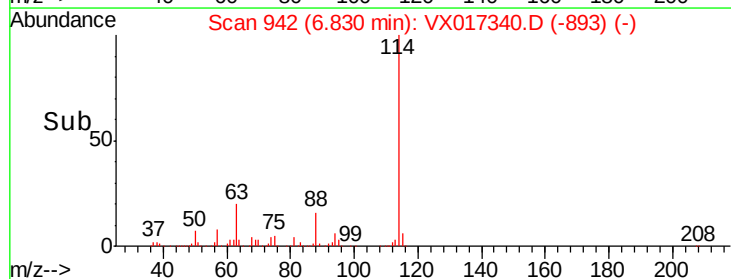
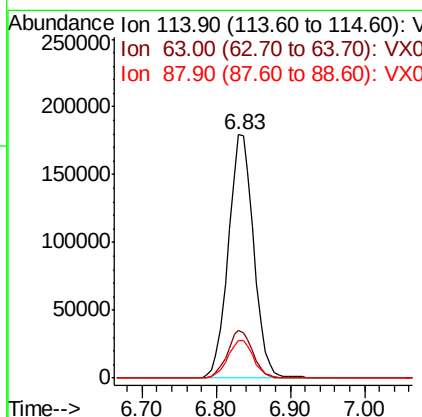
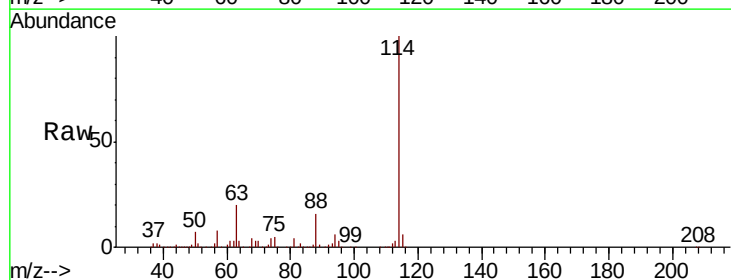
Instrument :
 MSVOA_X
 ClientSampleId :

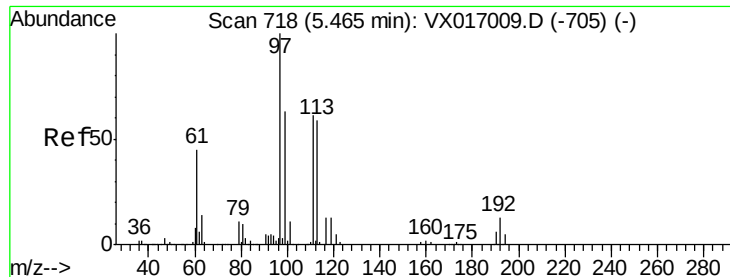
Tot Ion: 65 Resp: 164448
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017340.D
 Acq: 10 Jul 2020 17:04

Tgt Ion: 114 Resp: 427576
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.4
 88 15.5 0.0 32.4

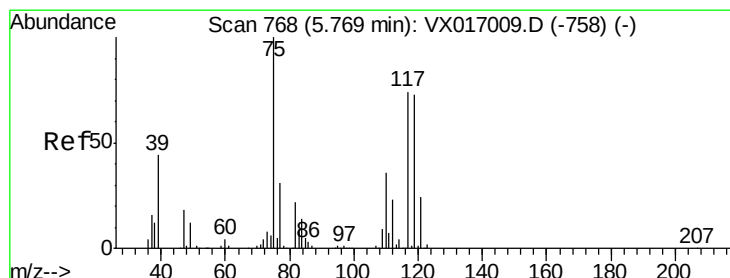
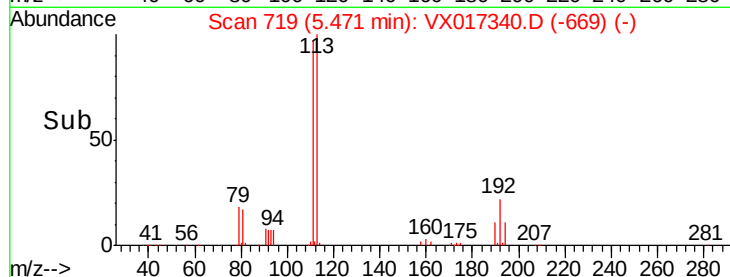
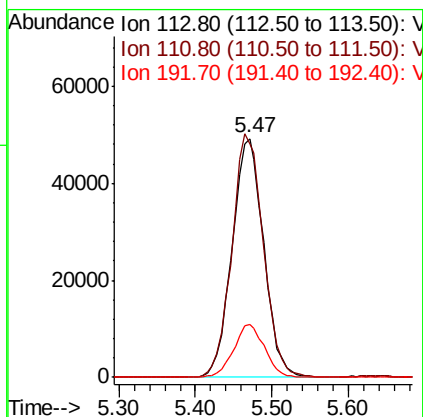
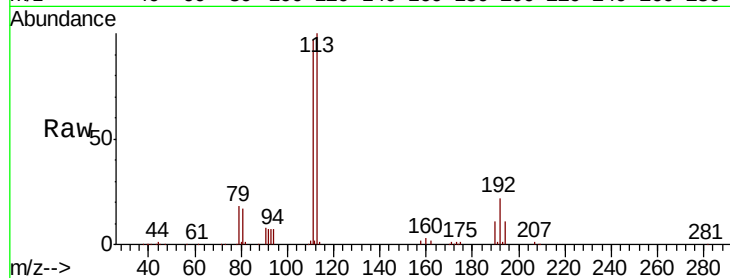




#35
 Dibromofluoromethane
 Concen: 51.960 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX017340.D
 Acq: 10 Jul 2020 17:04

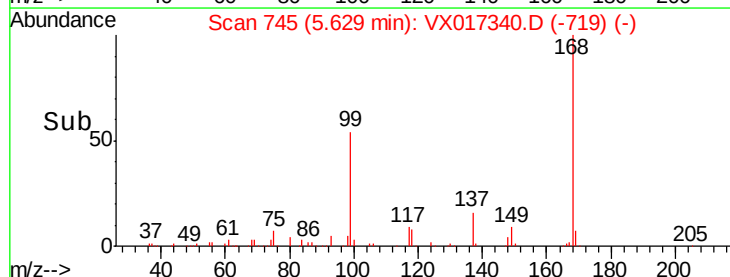
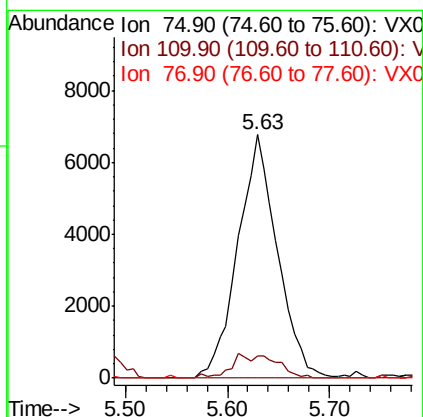
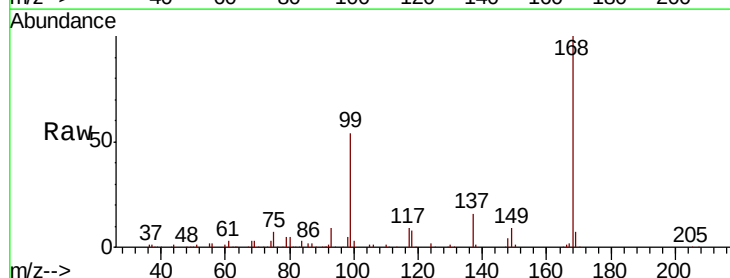
Instrument :
 MSVOA_X
 ClientSampleId :

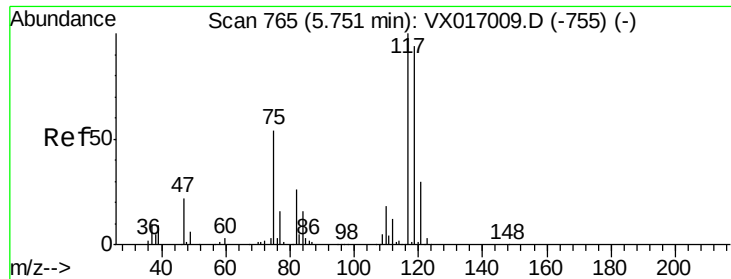
Tot Ion:113 Resp: 140538
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.9 122.9
 192 21.7 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 4.506 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017340.D
 Acq: 10 Jul 2020 17:04

Tgt Ion: 75 Resp: 18209
 Ion Ratio Lower Upper
 75 100
 110 5.1 18.1 54.1#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.499 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017340.D

Acq: 10 Jul 2020 17:04

Instrument :

MSVOA_X

ClientSampled :

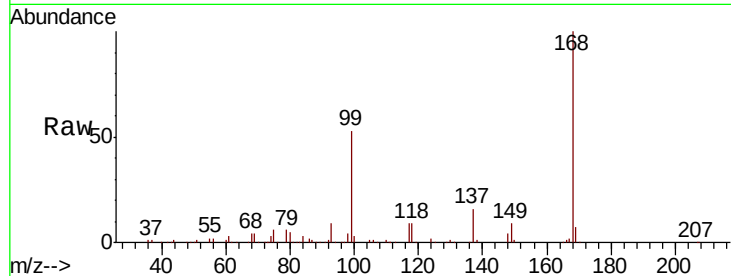
Tot Ion:117 Resp: 24476

Ion Ratio Lower Upper

117 100

119 5.3 75.4 113.0#

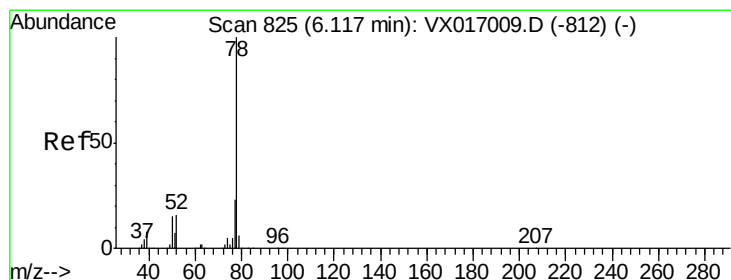
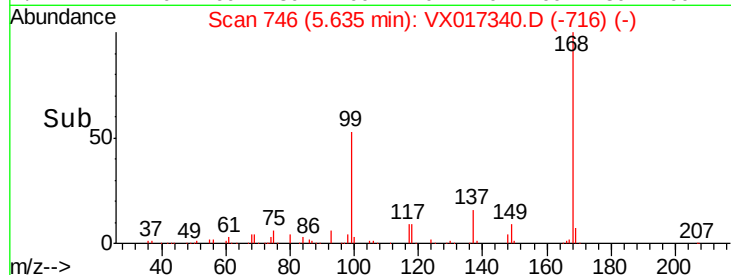
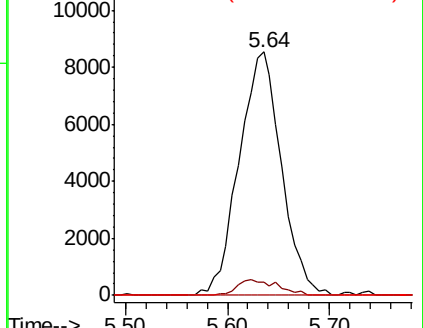
121 0.0 23.8 35.6#



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



#40

Benzene

Concen: 0.394 ug/l

RT: 6.12 min Scan# 825

Delta R.T. -0.00 min

Lab File: VX017340.D

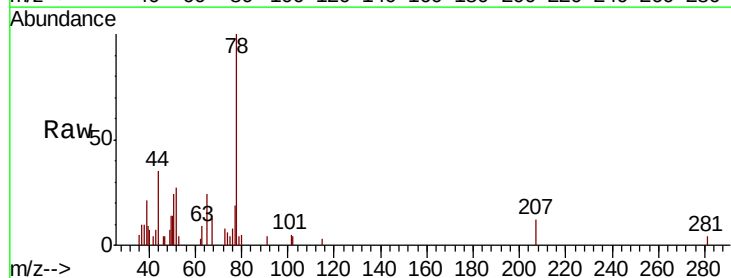
Acq: 10 Jul 2020 17:04

Tgt Ion: 78 Resp: 4674

Ion Ratio Lower Upper

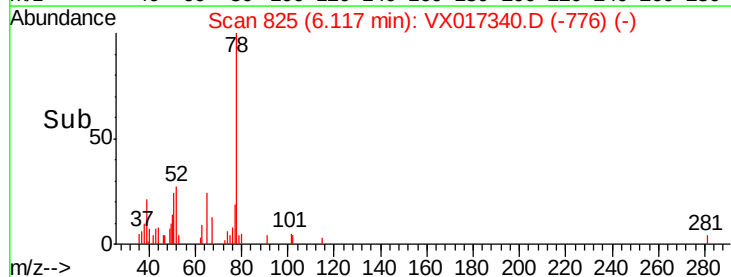
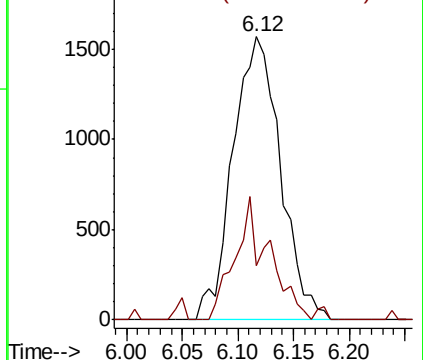
78 100

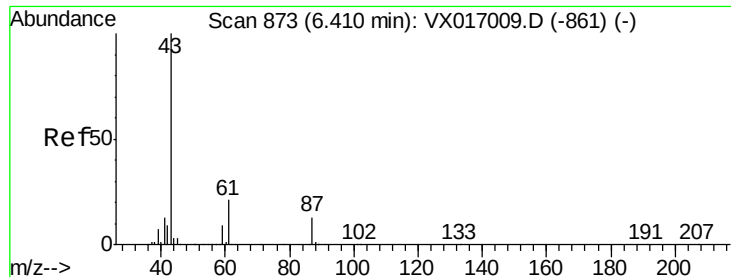
77 19.1 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



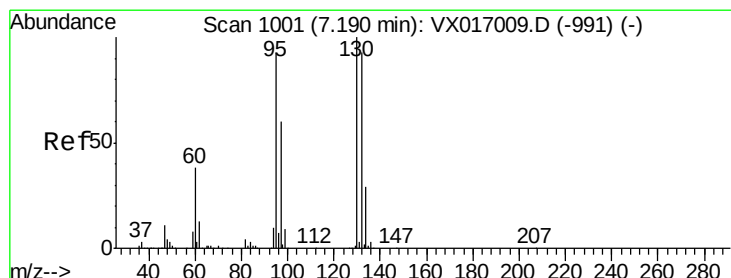
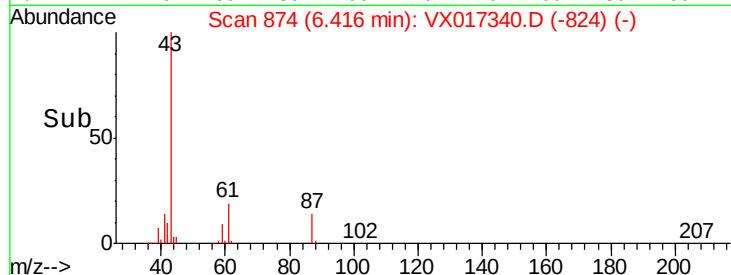
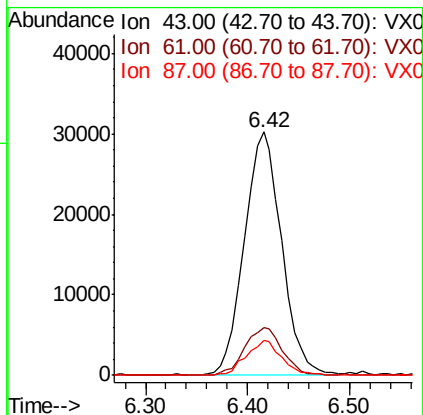
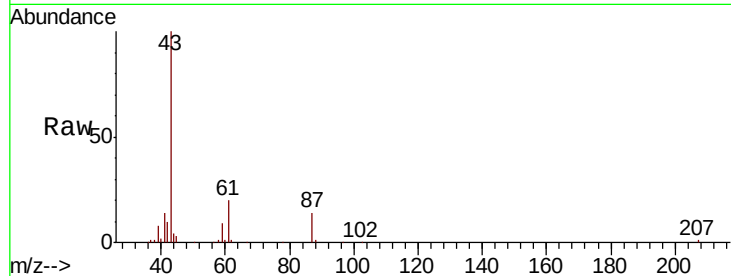


#43

Isopropyl Acetate
 Concen: 11.190 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. 0.01 min
 Lab File: VX017340.D
 Acq: 10 Jul 2020 17:04

Instrument :
 MSVOA_X
 ClientSampled :

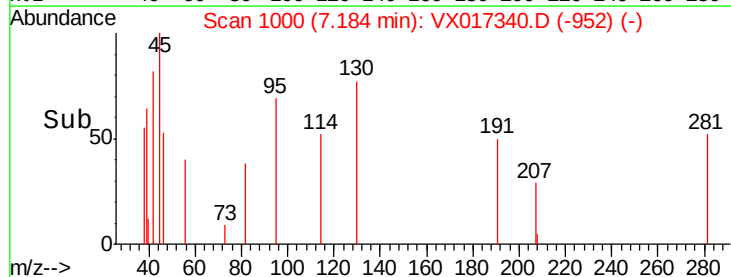
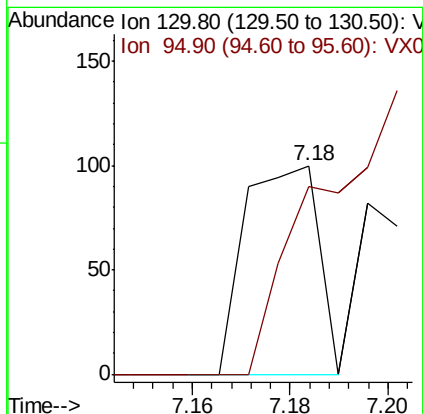
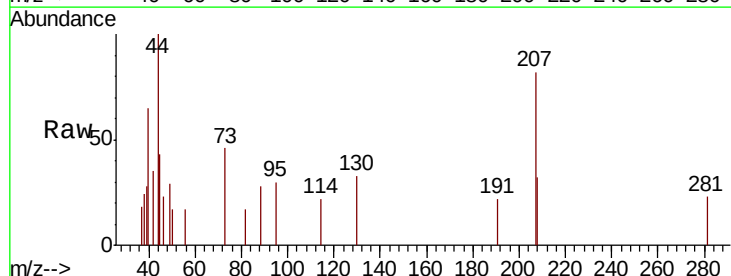
Tot Ion: 43 Resp: 76239
 Ion Ratio Lower Upper
 43 100
 61 20.1 16.2 24.2
 87 13.7 10.7 16.1

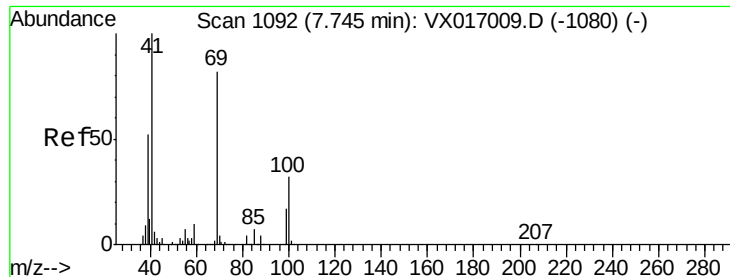


#44

Trichloroethene
 Concen: Below Cal
 RT: 7.18 min Scan# 1000
 Delta R.T. -0.01 min
 Lab File: VX017340.D
 Acq: 10 Jul 2020 17:04

Tgt Ion:130 Resp: 104
 Ion Ratio Lower Upper
 130 100
 95 90.0 0.0 185.0

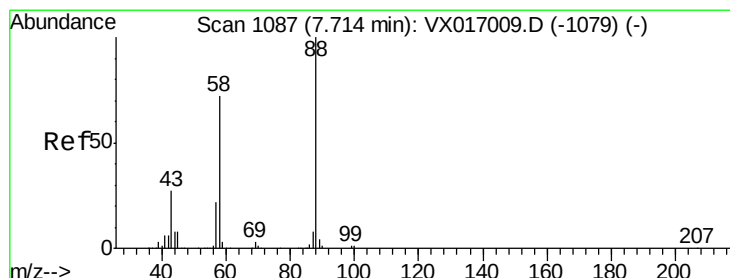
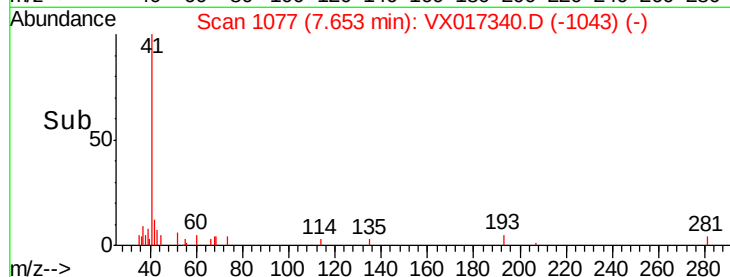
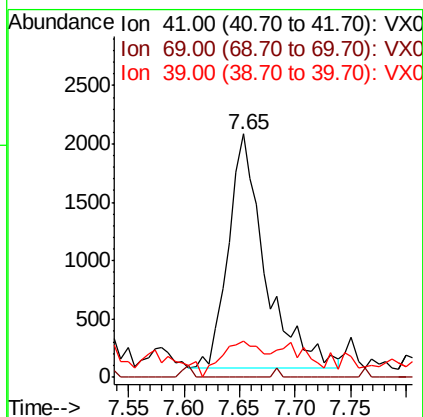
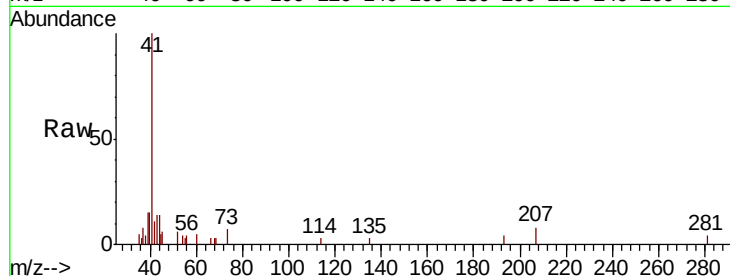




#48
Methvl methacrylate
Concen: 1.418 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

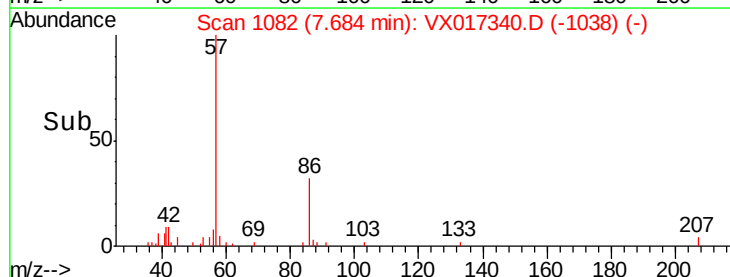
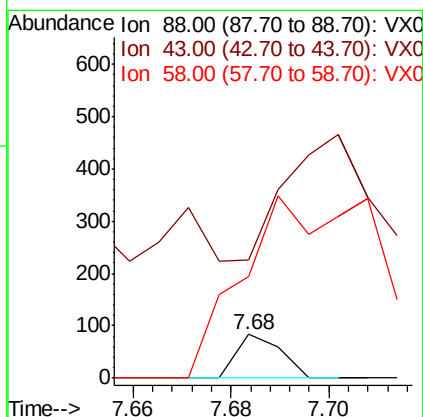
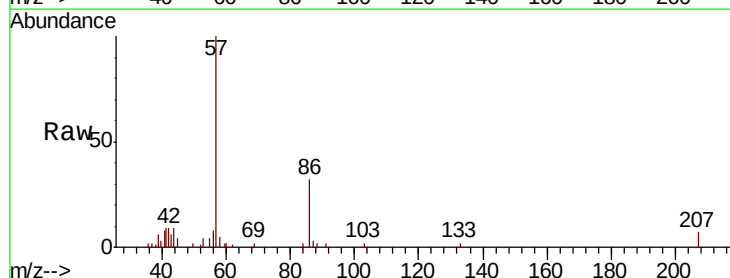
Instrument :
MSVOA_X
ClientSampled :

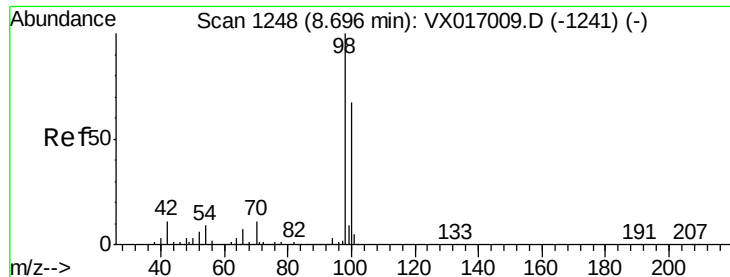
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	65.8	98.8#
39	0.0	42.5	63.7#



#49
1,4-Dioxane
Concen: 0.709 ug/l
RT: 7.68 min Scan# 1082
Delta R.T. -0.03 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	25.8	38.8#
58	1334.6	54.8	82.2#

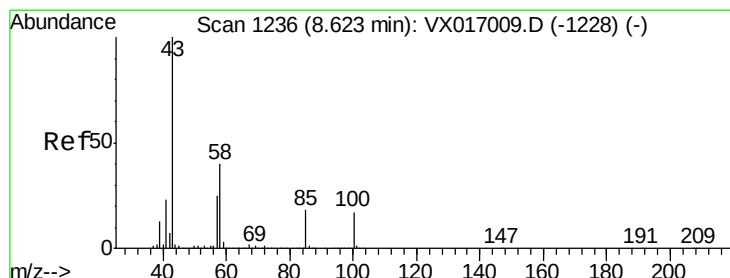
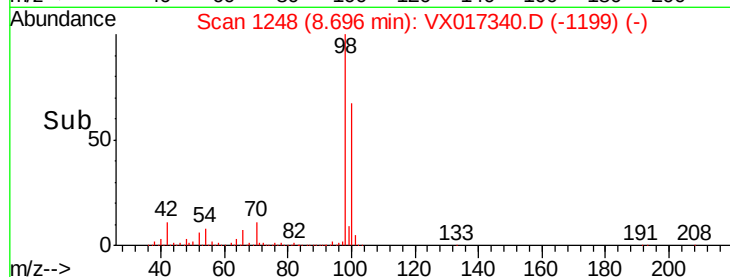
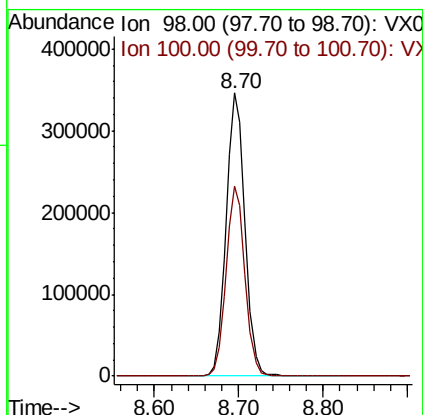
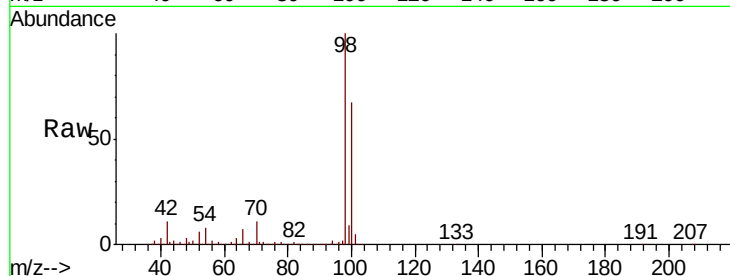




#50
Toluene-d8
Concen: 53.000 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

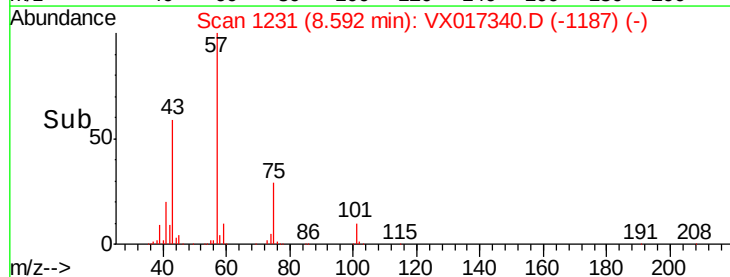
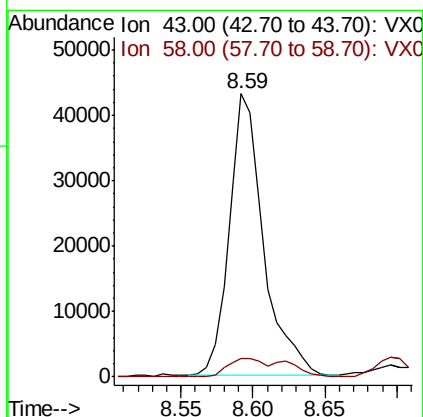
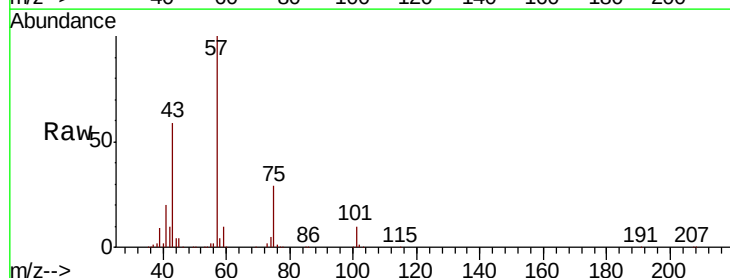
Instrument :
MSVOA_X
ClientSampleId :

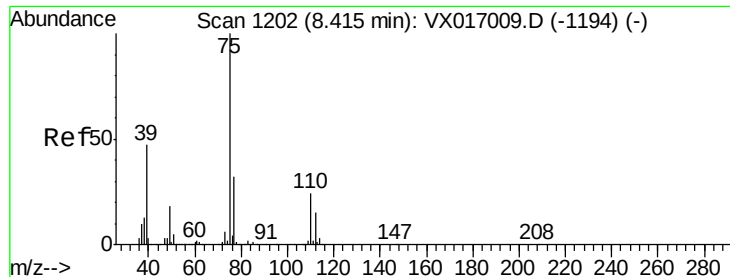
Tot Ion: 98 Resp: 530074
Ion Ratio Lower Upper
98 100
100 67.0 53.8 80.6



#51
4-Methyl-2-Pentanone
Concen: 17.689 ug/l
RT: 8.59 min Scan# 1231
Delta R.T. -0.03 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

Tgt Ion: 43 Resp: 71843
Ion Ratio Lower Upper
43 100
58 7.1 31.9 47.9#





#54

cis-1,3-Dichloropropene

Concen: 6.410 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017340.D

Acq: 10 Jul 2020 17:04

Instrument :
MSVOA_X
ClientSampleId :

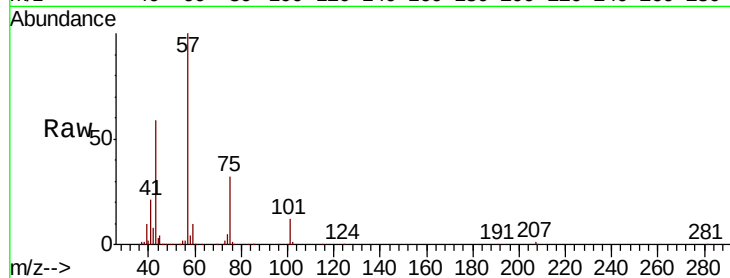
Tot Ion: 75 Resp: 32528

Ion Ratio Lower Upper

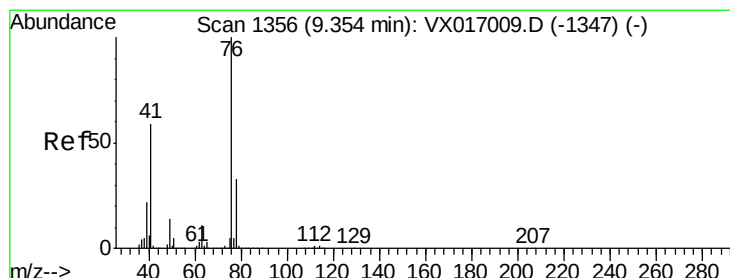
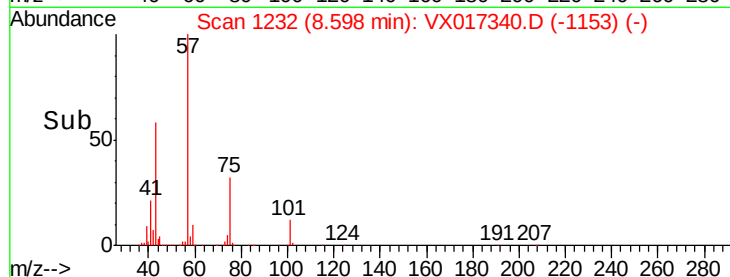
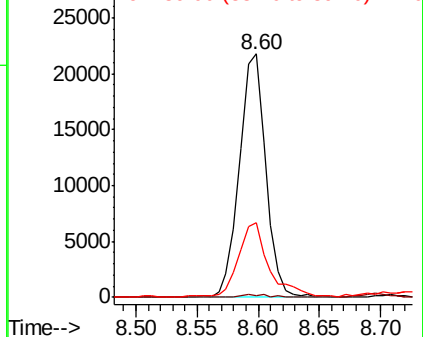
75 100

77 0.5 25.2 37.8#

39 30.6 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropene

Concen: 1.046 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX017340.D

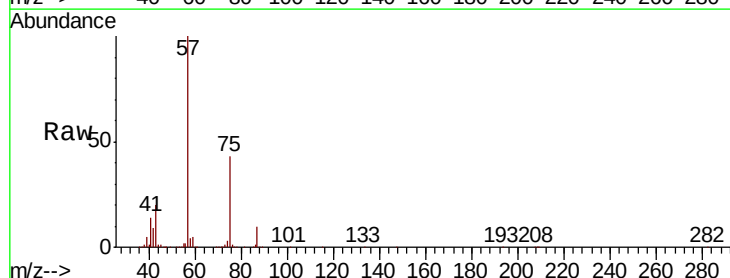
Acq: 10 Jul 2020 17:04

Tgt Ion: 76 Resp: 5359

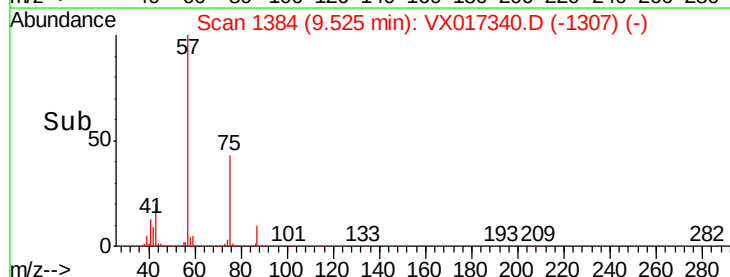
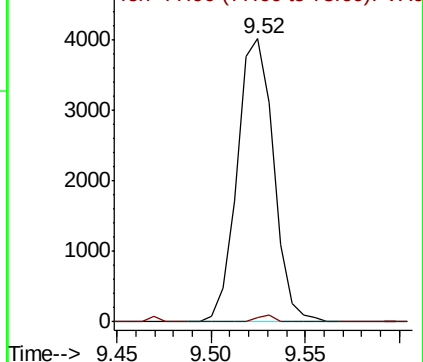
Ion Ratio Lower Upper

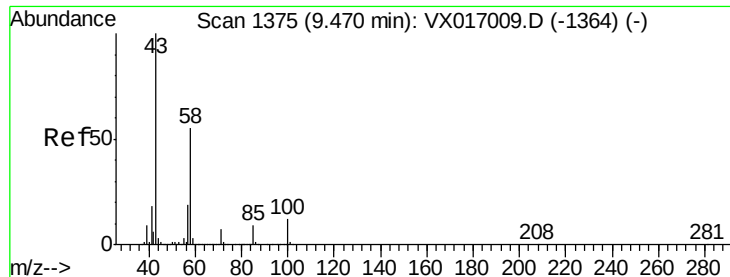
76 100

78 1.2 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0

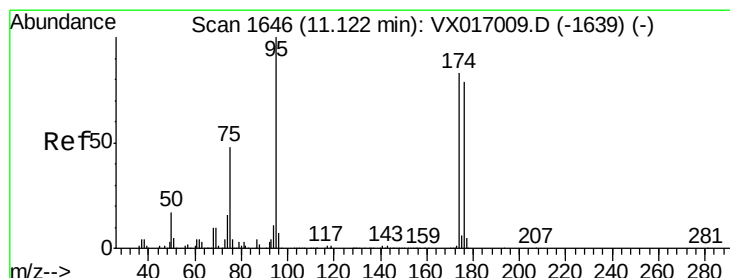
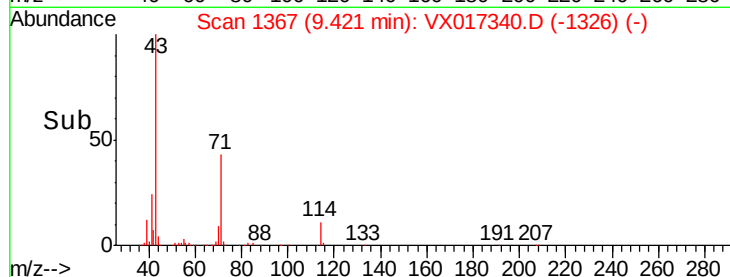
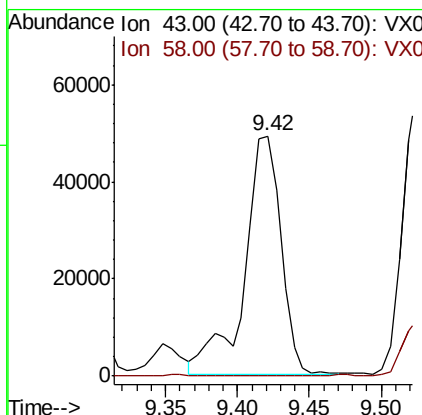
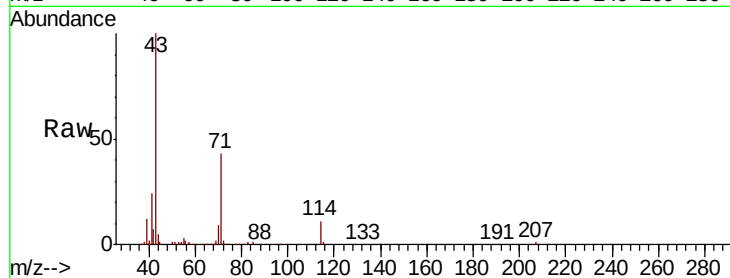




#59
2-Hexanone
Concen: 29.052 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

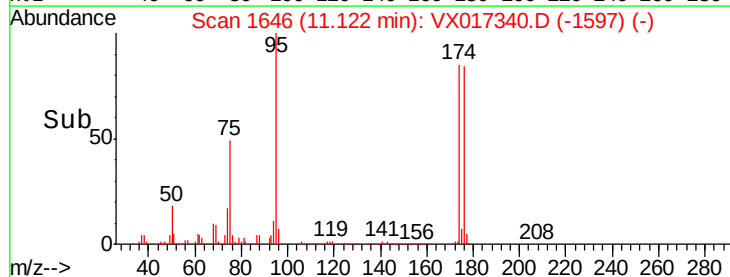
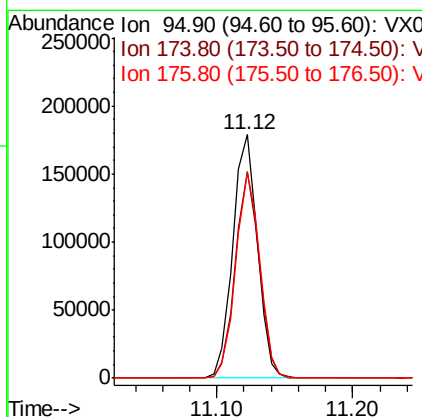
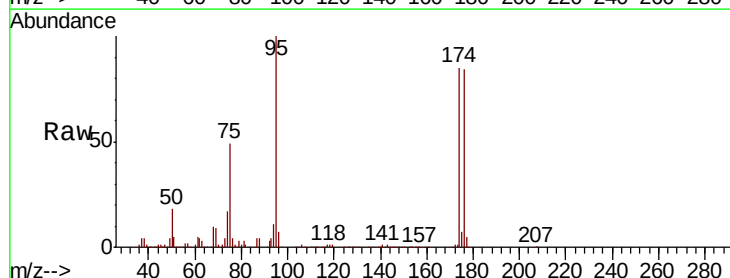
Instrument :
MSVOA_X
ClientSampleId :

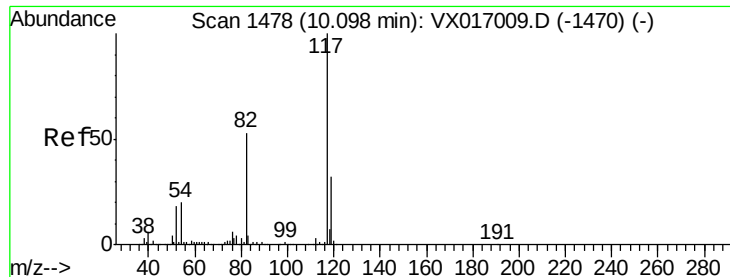
Tot Ion: 43 Resp: 86172
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 57.670 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

Tgt Ion: 95 Resp: 225471
Ion Ratio Lower Upper
95 100
174 83.1 0.0 164.0
176 82.8 0.0 157.6

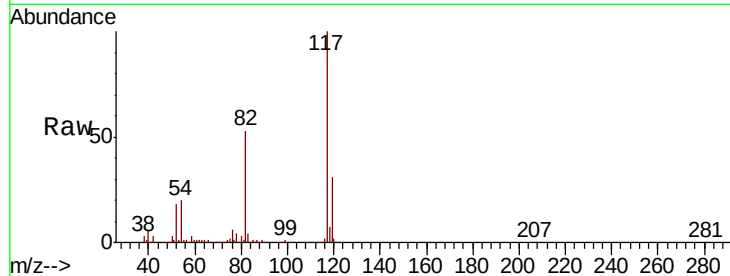




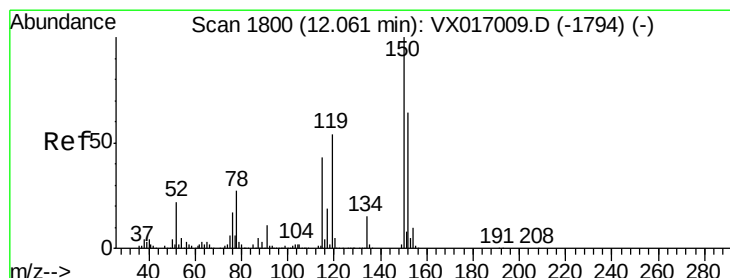
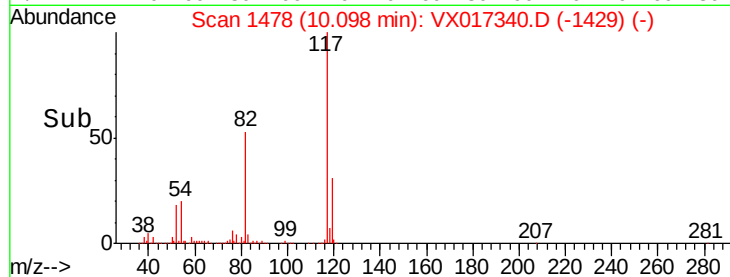
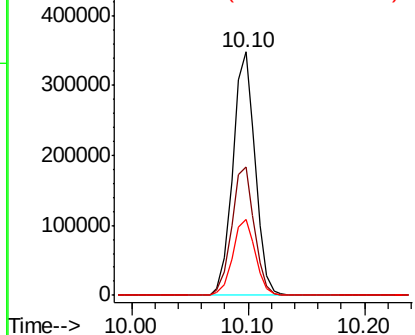
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 462517
Ion Ratio Lower Upper
117 100
82 52.7 42.6 63.8
119 31.0 25.4 38.2

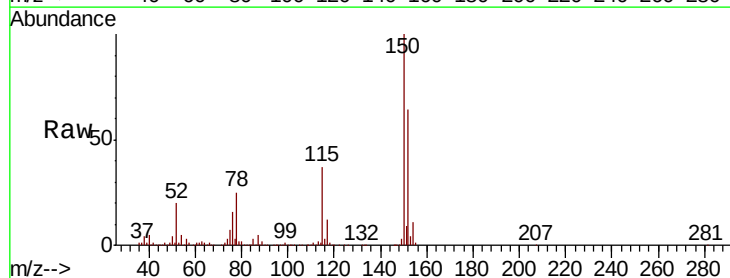


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

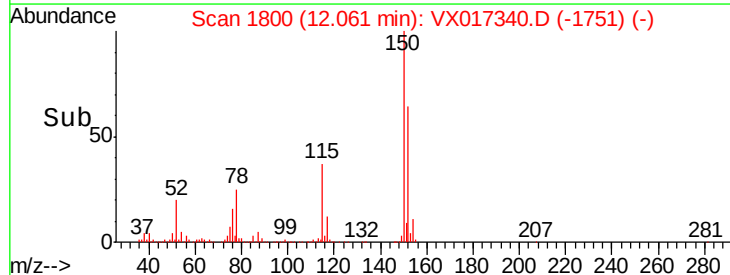
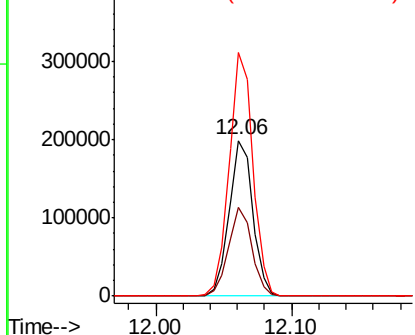


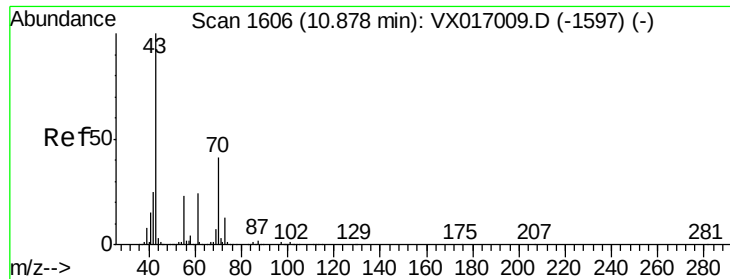
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017340.D
Acq: 10 Jul 2020 17:04

Tgt Ion:152 Resp: 240485
Ion Ratio Lower Upper
152 100
115 56.7 40.9 122.7
150 156.3 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.467 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX017340.D

Acq: 10 Jul 2020 17:04

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 3136

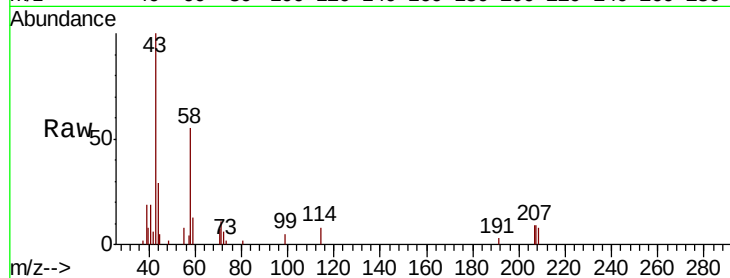
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.2#

55 12.8 19.2 28.8#

61 0.0 19.6 29.4#

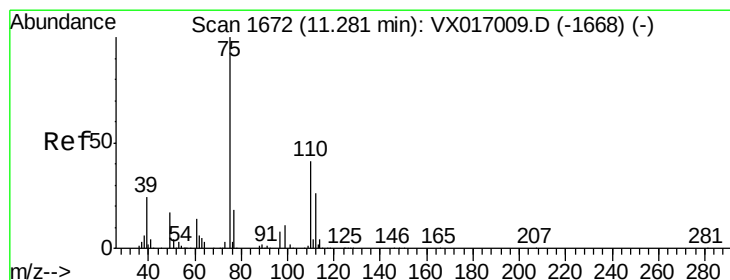
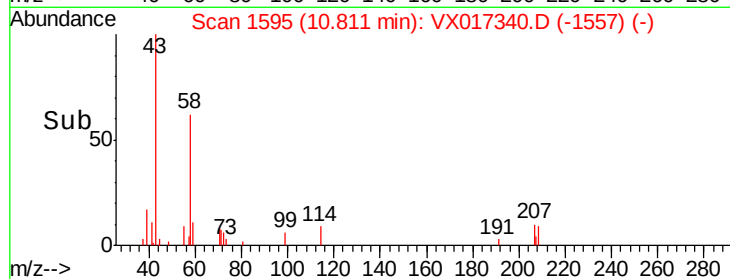
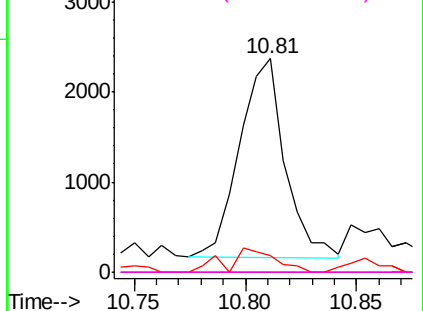


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.890 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017340.D

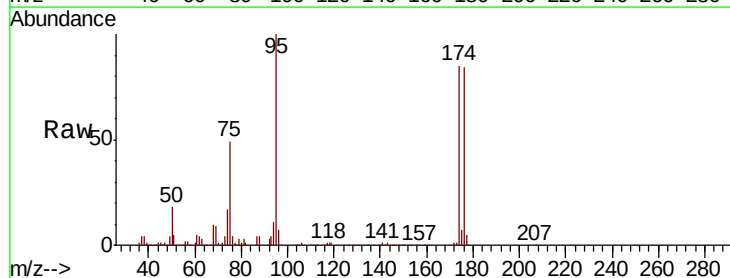
Acq: 10 Jul 2020 17:04

Tgt Ion: 75 Resp: 112975

Ion Ratio Lower Upper

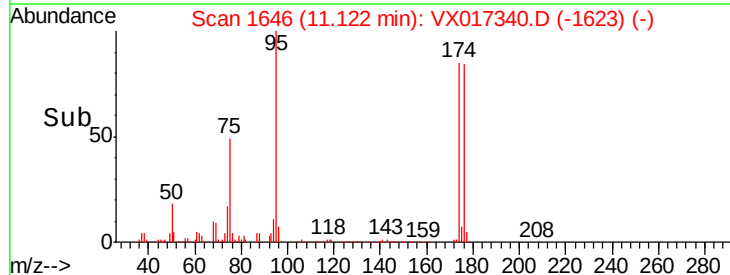
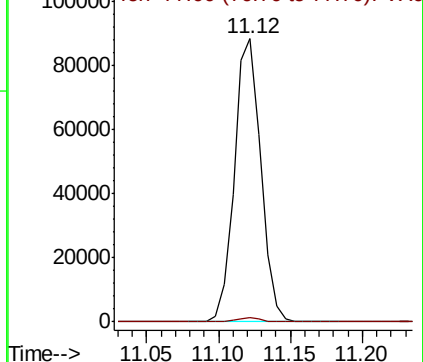
75 100

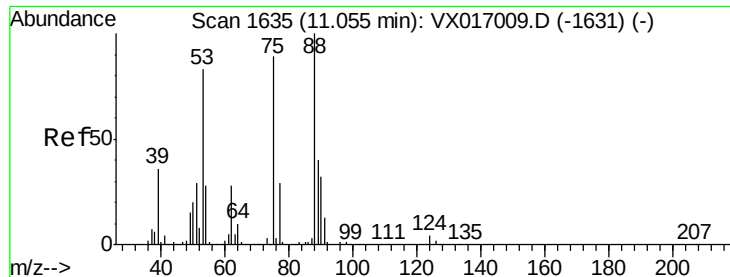
77 1.3 20.2 60.6#



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: 61.866 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017340.D

Acq: 10 Jul 2020 17:04

Instrument :

MSVOA_X

ClientSampled :

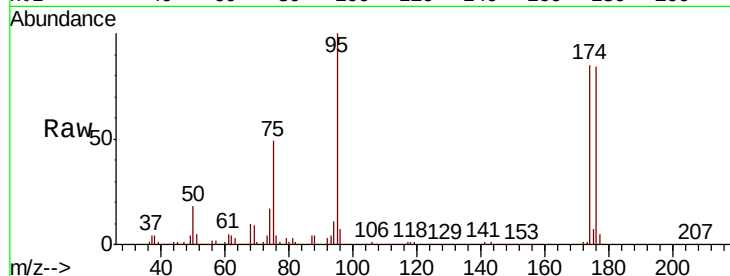
Tot Ion: 75 Resp: 112975

Ion Ratio Lower Upper

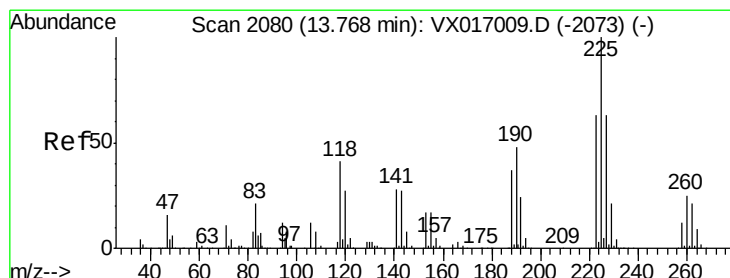
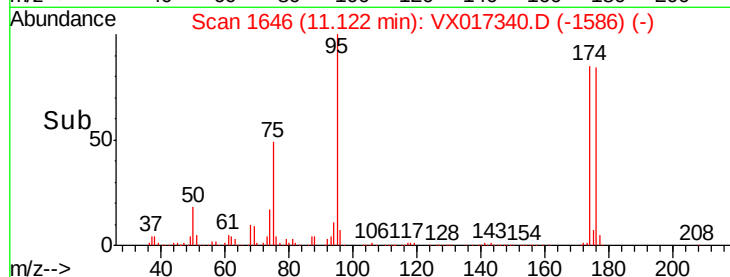
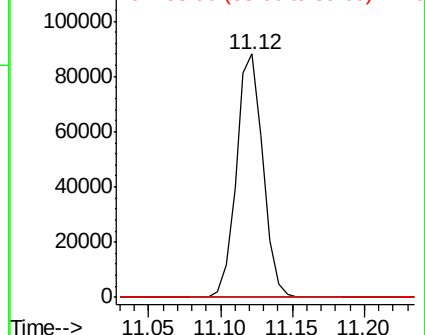
75 100

53 0.1 72.4 108.6#

89 0.0 37.0 55.4#



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



#94

Hexachlorobutadiene

Concen: 0.936 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017340.D

Acq: 10 Jul 2020 17:04

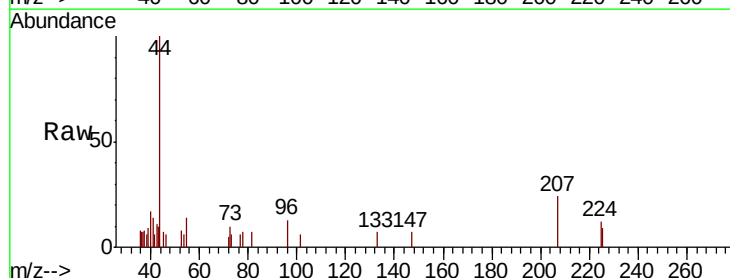
Tgt Ion: 225 Resp: 177

Ion Ratio Lower Upper

225 100

223 0.0 32.5 97.5#

227 14.7 33.1 99.2#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

