

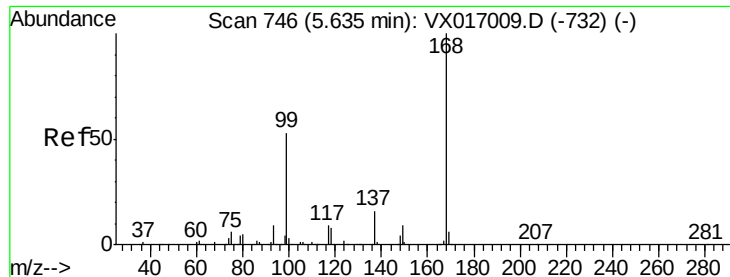
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071020\
 Data File : VX017341.D
 Acq On : 10 Jul 2020 17:27
 Operator : JC/SP
 Sample : L3203-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 11 01:03:46 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	5.64	168	248655	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	420217	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	452259	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	235677	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	160773	52.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.90%	
35) Dibromofluoromethane	5.47	113	138435	52.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.16%	
50) Toluene-d8	8.70	98	523287	53.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.48%	
62) 4-Bromofluorobenzene	11.12	95	223618	58.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.40%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.17	74	684	0.871	ug/l	90
11) Tert butyl alcohol	3.01	59	924	1.580	ug/l	100
13) Acrolein	2.28	56	310	0.887	ug/l #	15
16) Acetone	2.42	43	25354	22.110	ug/l	98
18) Methyl Acetate	2.76	43	4301	1.437	ug/l	91
20) Methylene Chloride	2.84	84	14770	4.910	ug/l	94
25) 2-Butanone	4.64	43	4549	2.381	ug/l	95
29) Tetrahydrofuran	5.10	42	887	0.703	ug/l #	86
31) Cyclohexane	5.64	56	4748	1.147	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	17656	4.446	ug/l #	52
38) Carbon Tetrachloride	5.63	117	24837	5.678	ug/l #	17
43) Isopropyl Acetate	6.42	43	73016	10.904	ug/l	98
44) Trichloroethene	7.20	130	200	Below Cal		3
48) Methyl methacrylate	7.65	41	3900	1.226	ug/l #	15
49) 1,4-Dioxane	7.85	88	121	1.679	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	68262	17.102	ug/l #	46
54) cis-1,3-Dichloropropene	8.59	75	30206	6.056	ug/l #	65
56) Ethyl methacrylate	9.29	69	1408	0.332	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	5455	1.083	ug/l #	42
59) 2-Hexanone	9.52	43	71973	24.690	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	110606	23.866	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	110606	61.804	ug/l #	13
88) 1,4-Dichlorobenzene	12.00	146	667	Below Cal		92
94) Hexachlorobutadiene	13.77	225	192	0.945	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017341.D

Acq: 10 Jul 2020 17:27

Instrument :

MSVOA_X

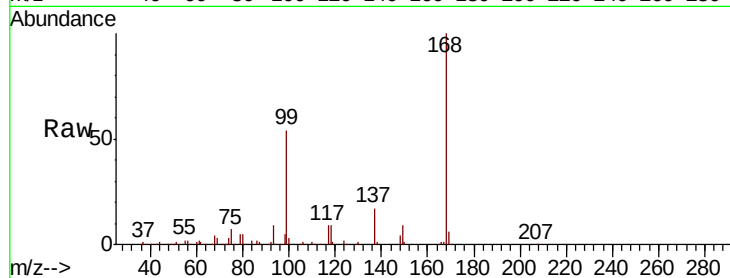
ClientSampleId :

Tot Ion:168 Resp: 248655

Ion Ratio Lower Upper

168 100

99 54.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

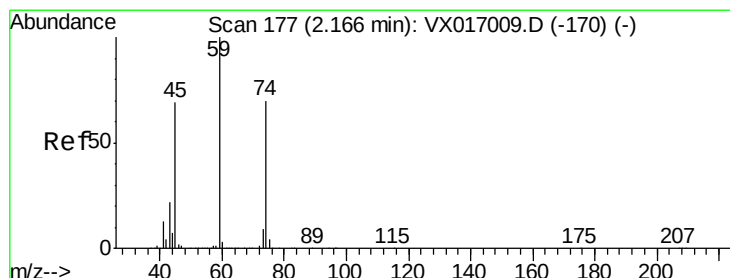
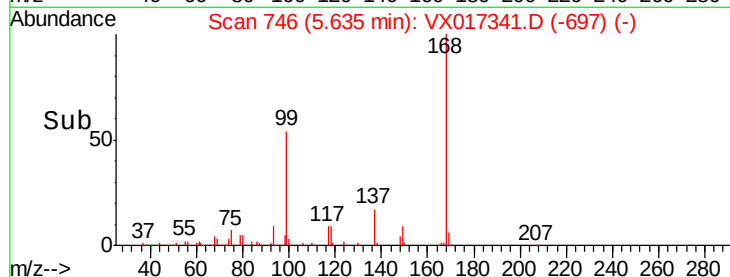
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 0.871 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017341.D

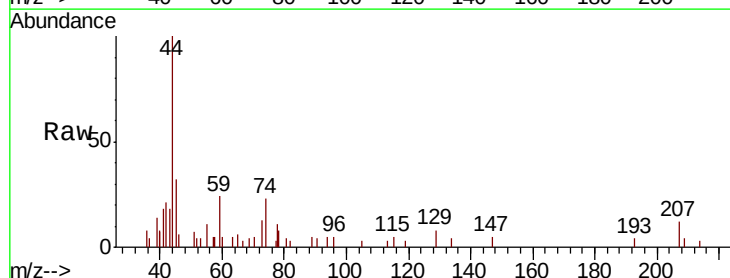
Acq: 10 Jul 2020 17:27

Tgt Ion: 74 Resp: 684

Ion Ratio Lower Upper

74 100

45 109.5 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

600

500

400

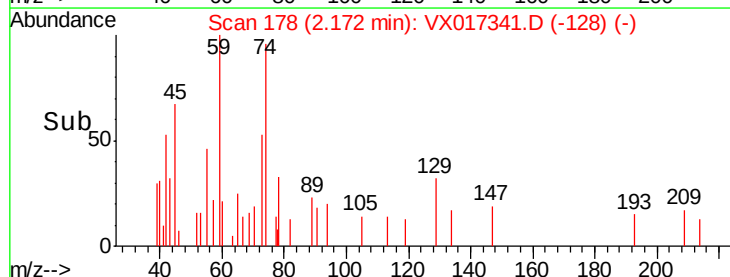
300

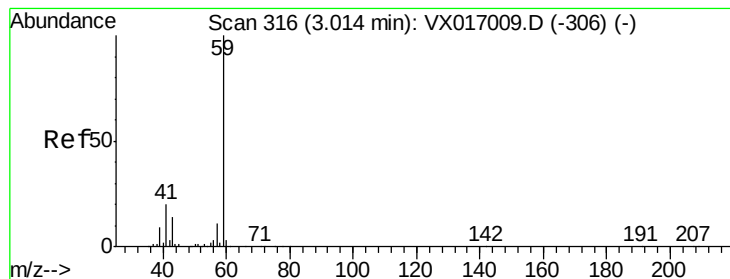
200

100

0

Time-->



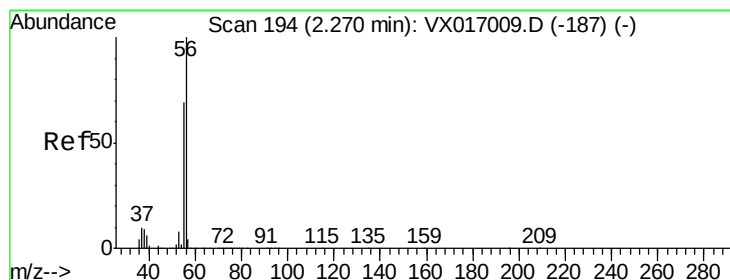
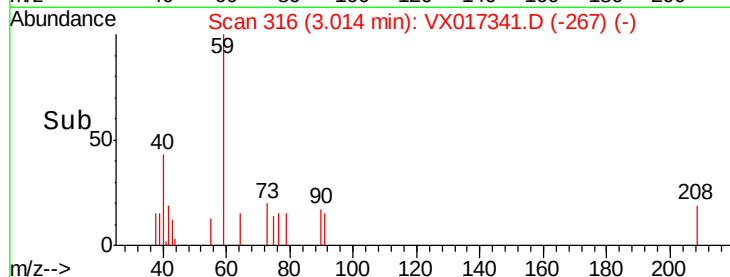
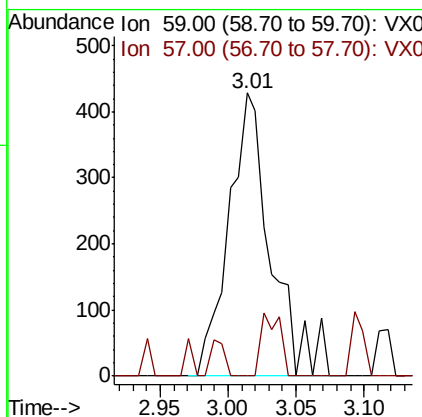
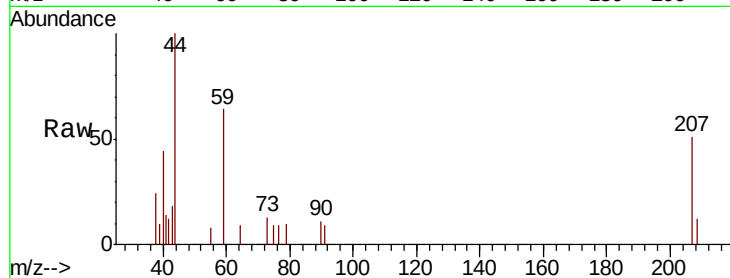


#11

Tert butyl alcohol
Concen: 1.580 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

Instrument :
MSVOA_X
ClientSampled :

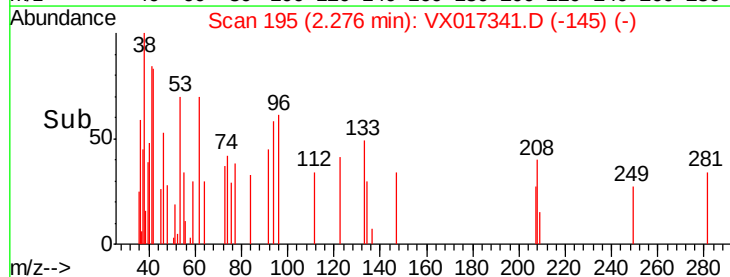
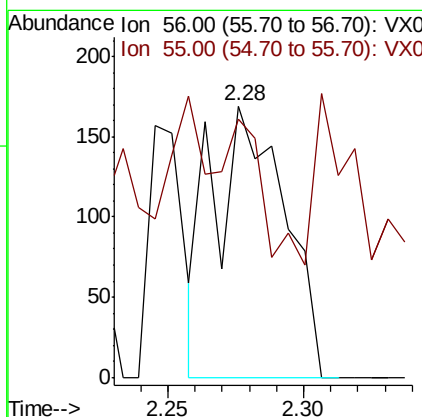
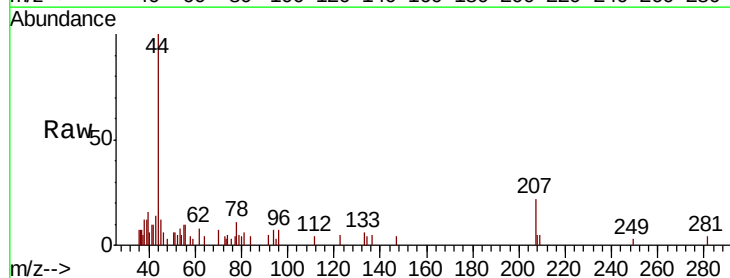
Tot Ion: 59 Resp: 924
Ion Ratio Lower Upper
59 100
57 10.2 8.2 12.2

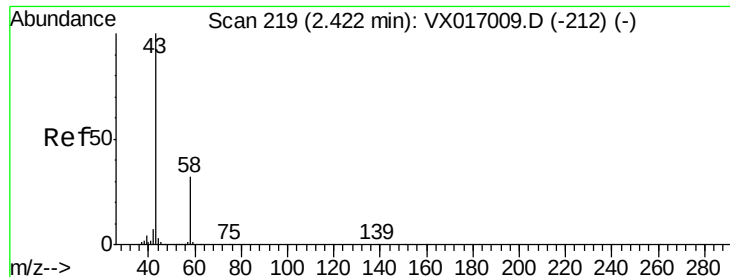


#13

Acrolein
Concen: 0.887 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

Tgt Ion: 56 Resp: 310
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#

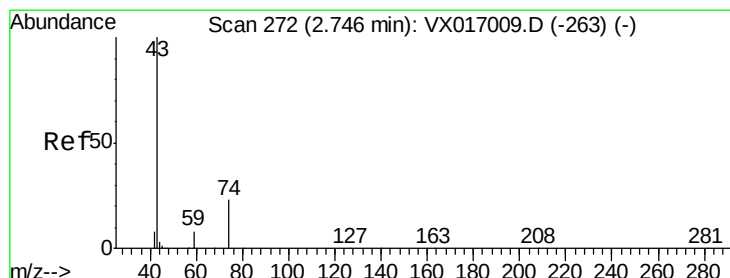
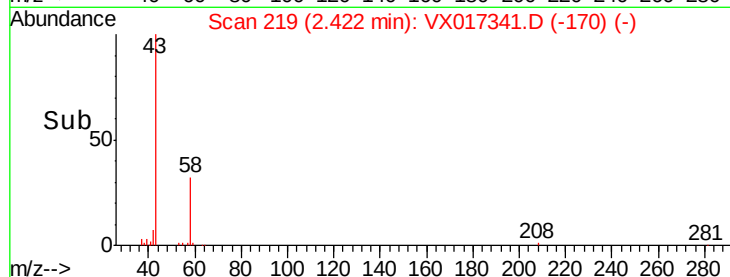
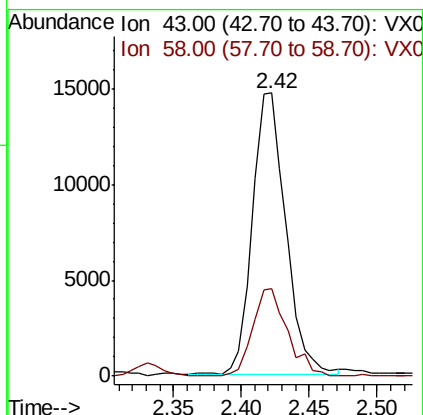
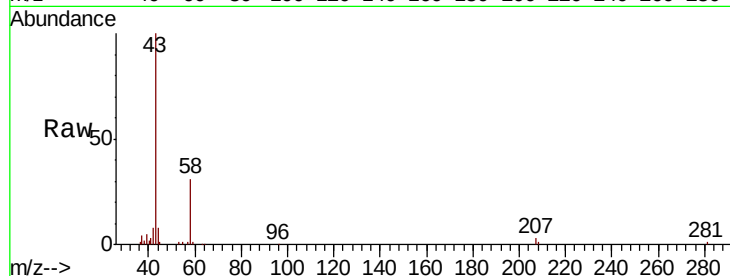




#16
Acetone
Concen: 22.110 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

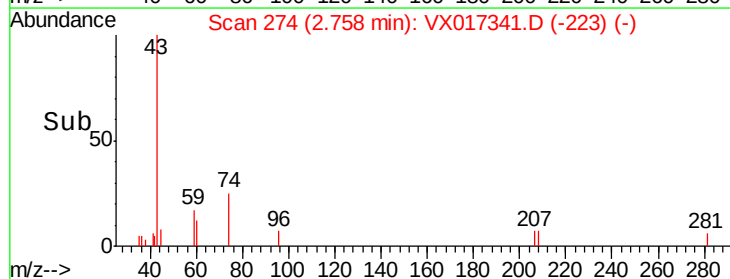
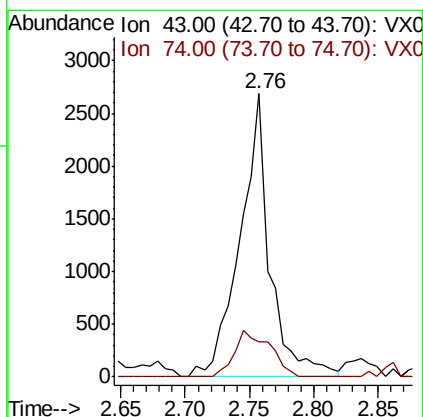
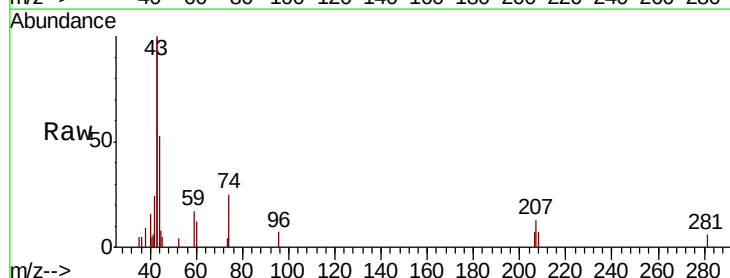
Instrument :
MSVOA_X
ClientSampleId :

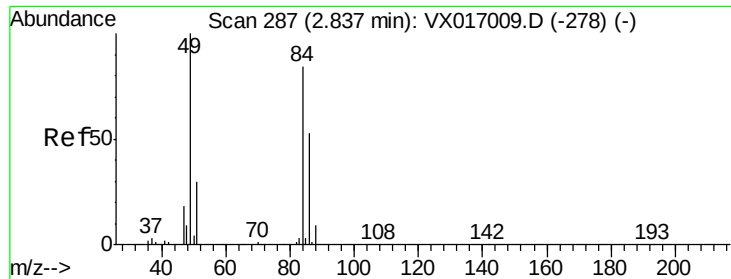
Tot Ion: 43 Resp: 25354
Ion Ratio Lower Upper
43 100
58 31.2 25.7 38.5



#18
Methyl Acetate
Concen: 1.437 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

Tgt Ion: 43 Resp: 4301
Ion Ratio Lower Upper
43 100
74 19.6 19.3 28.9

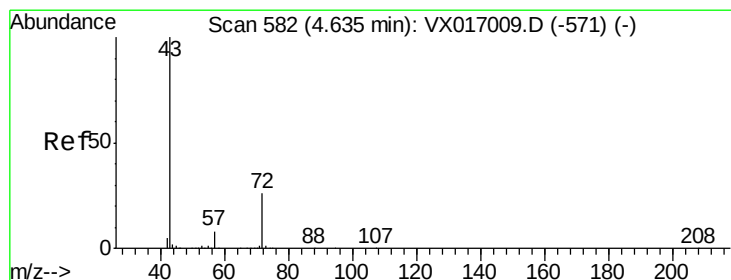
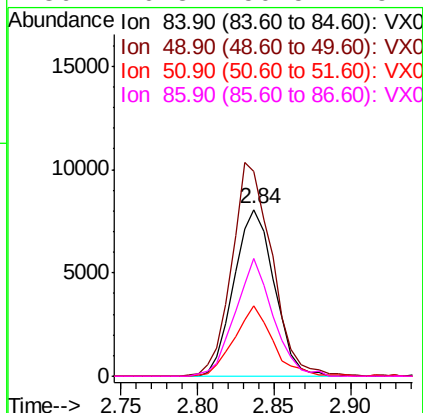
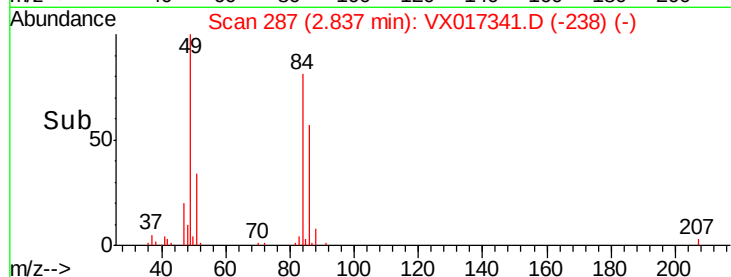
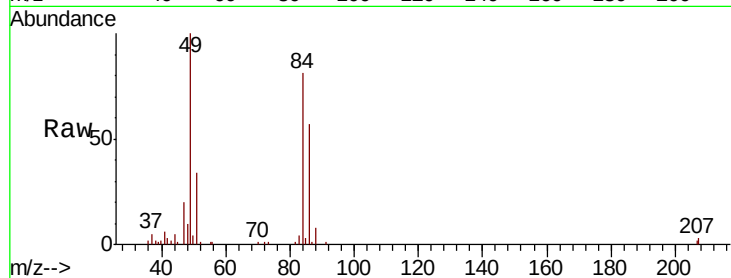




#20
Methvlene Chloride
Concen: 4.910 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

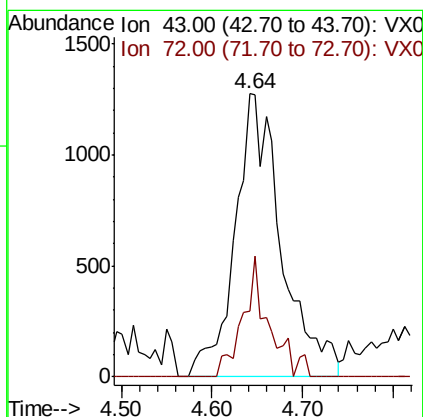
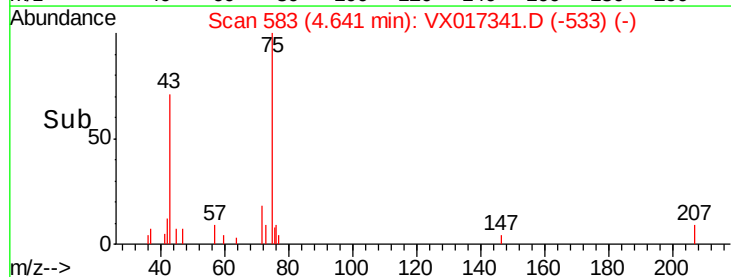
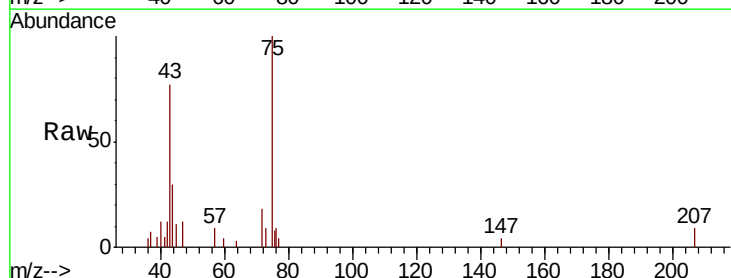
Instrument :
MSVOA_X
ClientSampled :

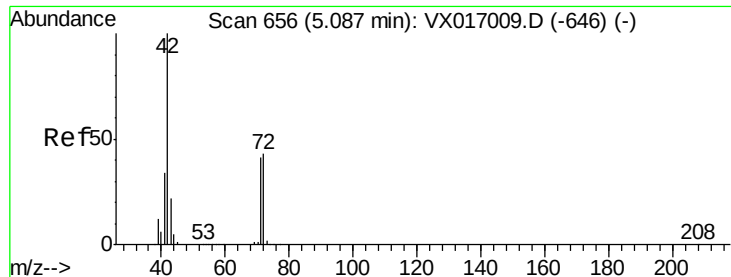
Tot Ion: 84 Resp: 14770
Ion Ratio Lower Upper
84 100
49 122.0 94.7 142.1
51 42.2 28.6 42.8
86 70.3 50.5 75.7



#25
2-Butanone
Concen: 2.381 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

Tgt Ion: 43 Resp: 4549
Ion Ratio Lower Upper
43 100
72 23.3 20.8 31.2

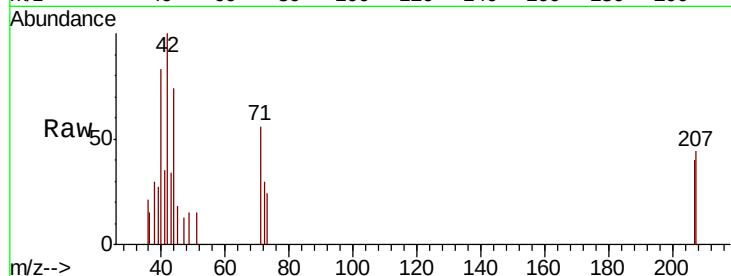




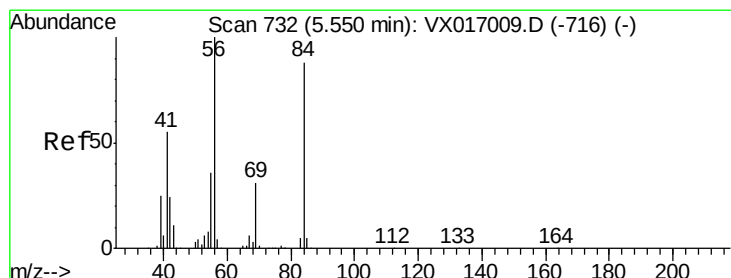
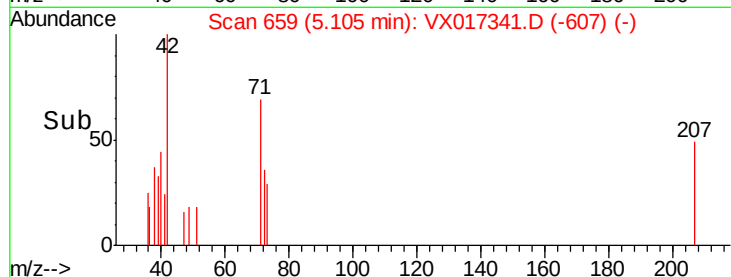
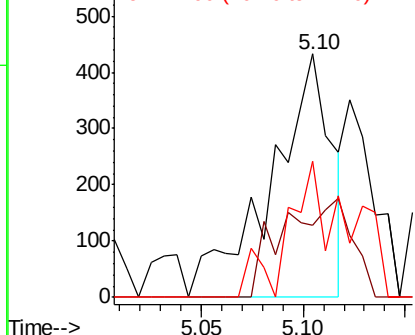
#29
Tetrahydrofuran
Concen: 0.703 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 42 Resp: 887
Ion Ratio Lower Upper
42 100
72 46.9 35.3 52.9
71 56.4 33.1 49.7#

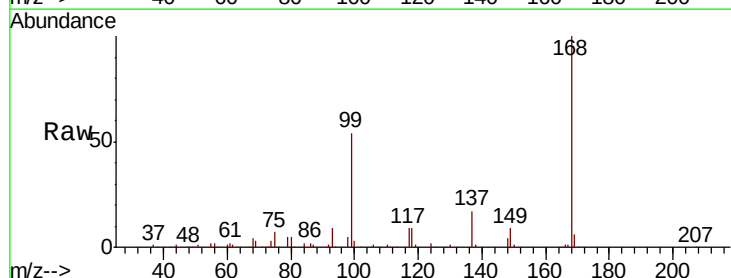


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

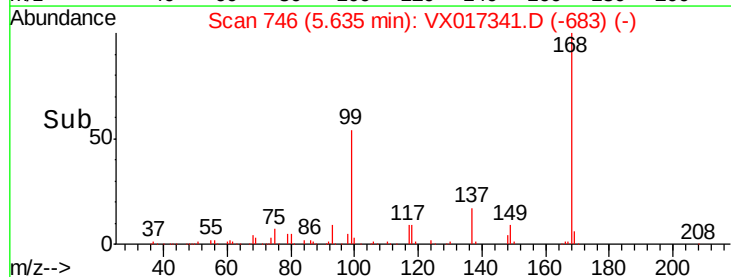
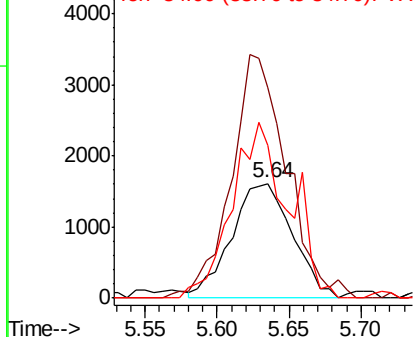


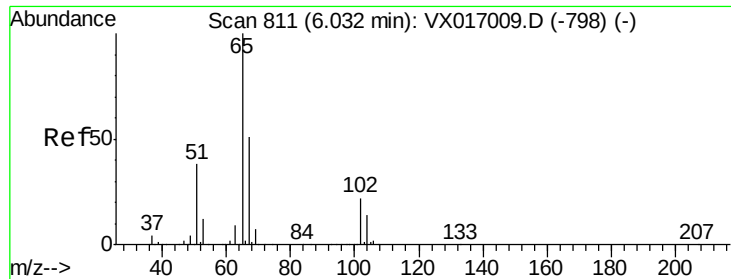
#31
Cyclohexane
Concen: 1.147 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

Tgt Ion: 56 Resp: 4748
Ion Ratio Lower Upper
56 100
69 177.4 25.0 37.4#
84 133.0 69.1 103.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

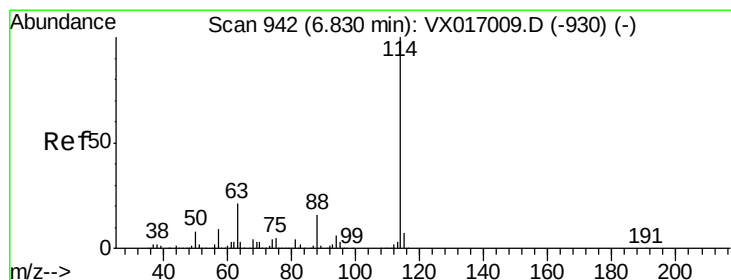
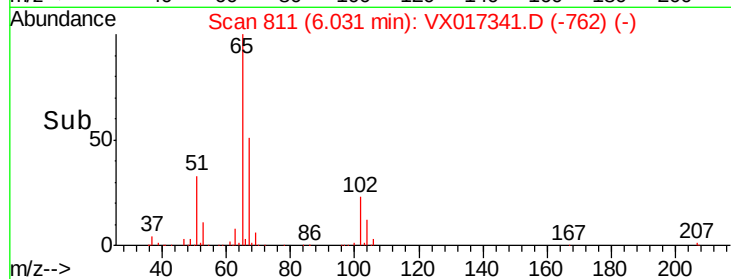
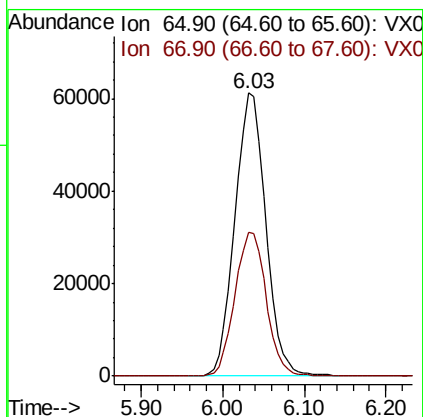
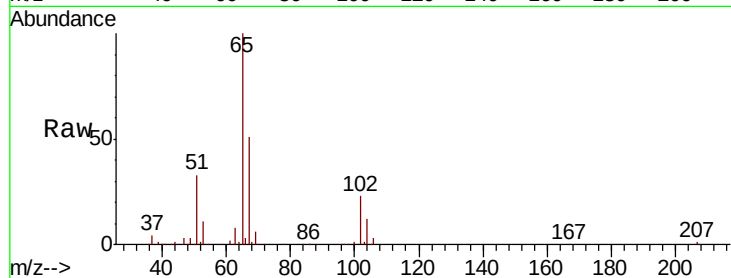




#33
 1,2-Dichloroethane-d4
 Concen: 52.447 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017341.D
 Acq: 10 Jul 2020 17:27

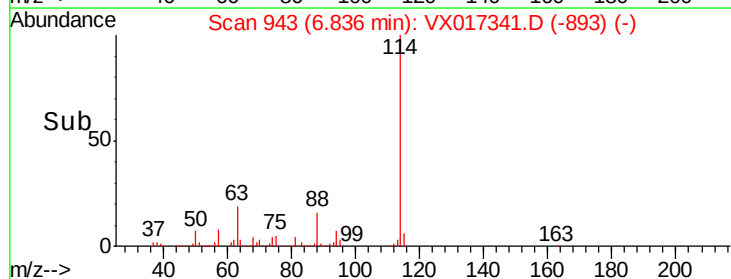
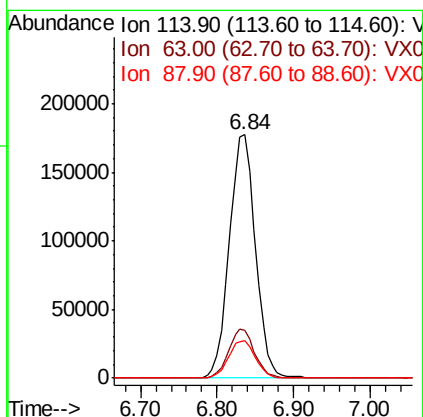
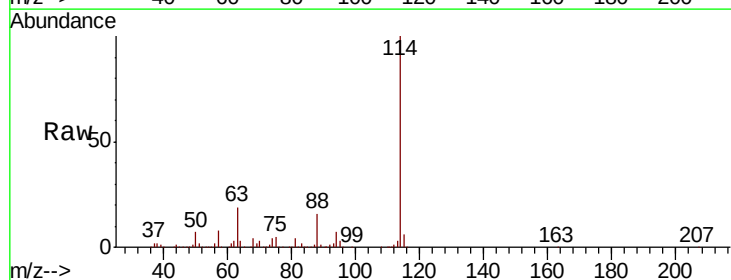
Instrument :
 MSVOA_X
 ClientSampleId :

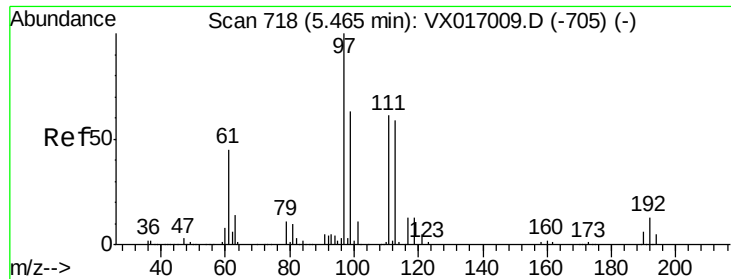
Tot Ion: 65 Resp: 160773
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017341.D
 Acq: 10 Jul 2020 17:27

Tgt Ion: 114 Resp: 420217
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 41.4
 88 15.5 0.0 32.4

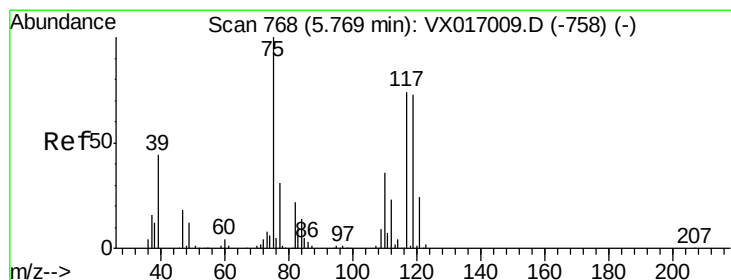
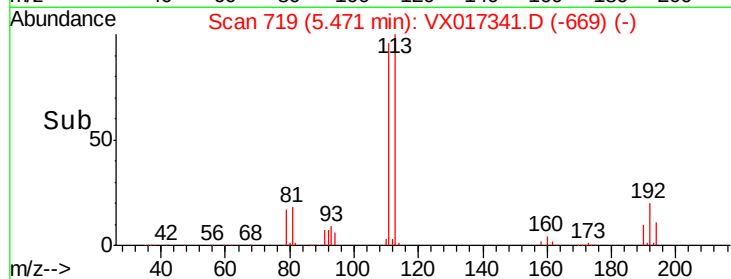
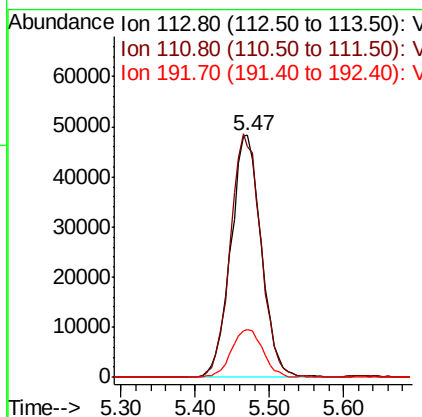
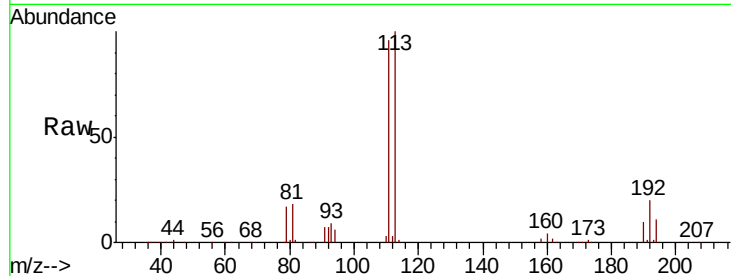




#35
 Dibromofluoromethane
 Concen: 52.079 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX017341.D
 Acq: 10 Jul 2020 17:27

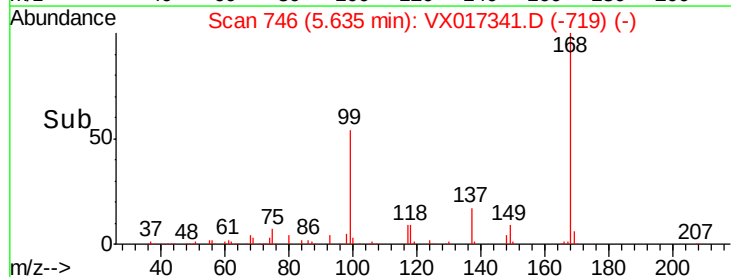
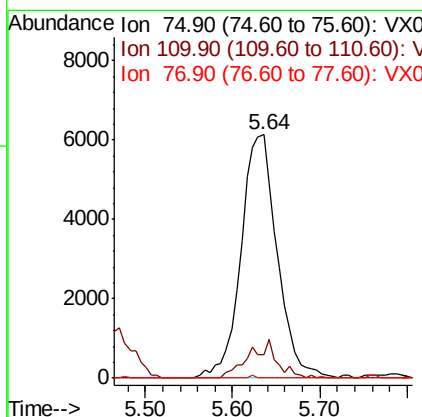
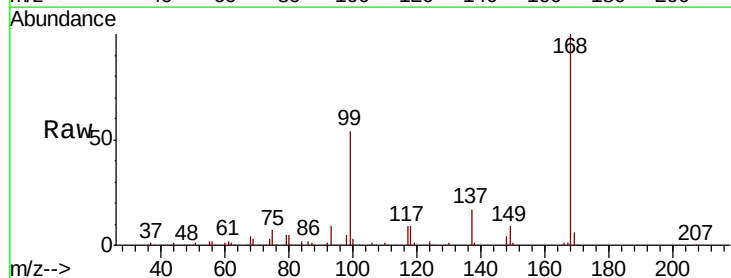
Instrument :
 MSVOA_X
 ClientSampleId :

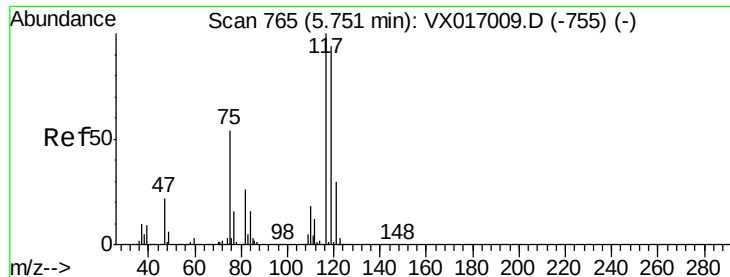
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.9	122.9
192	20.7	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 4.446 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017341.D
 Acq: 10 Jul 2020 17:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.3	18.1	54.1#
77	0.2	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.678 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017341.D

Acq: 10 Jul 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

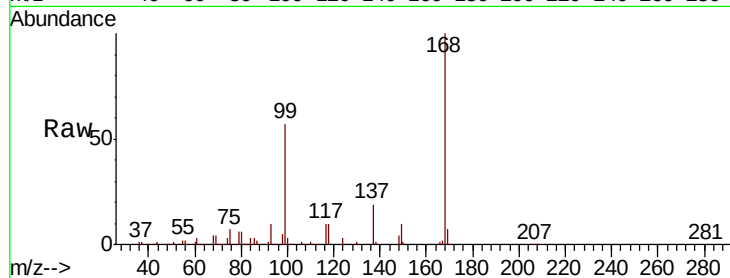
Tot Ion:117 Resp: 24837

Ion Ratio Lower Upper

117 100

119 5.0 75.4 113.0#

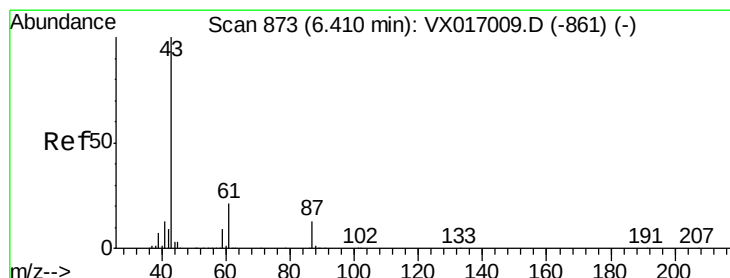
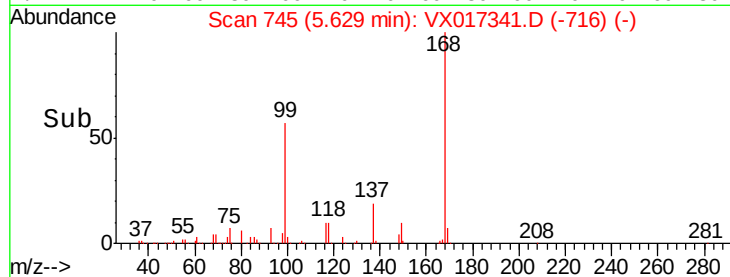
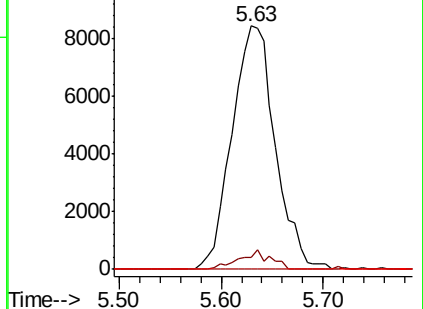
121 0.0 23.8 35.6#



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



#43

Isopropyl Acetate

Concen: 10.904 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.01 min

Lab File: VX017341.D

Acq: 10 Jul 2020 17:27

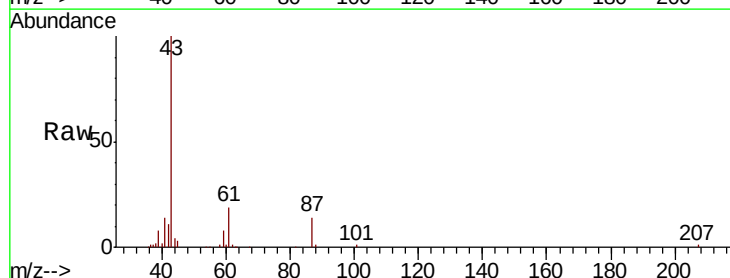
Tgt Ion: 43 Resp: 73016

Ion Ratio Lower Upper

43 100

61 20.7 16.2 24.2

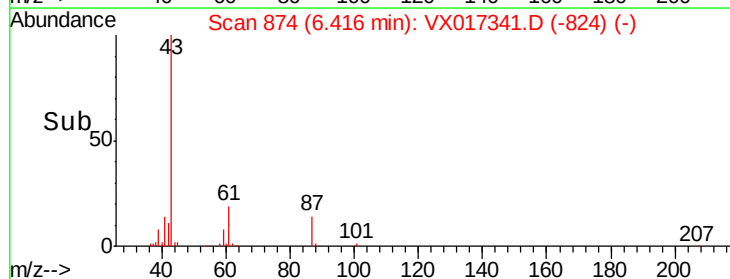
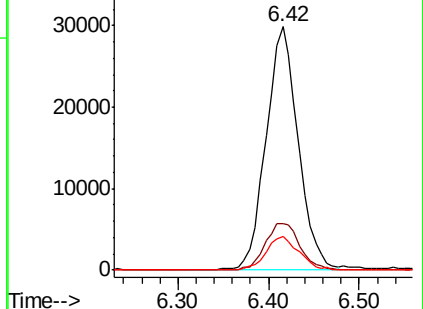
87 14.4 10.7 16.1

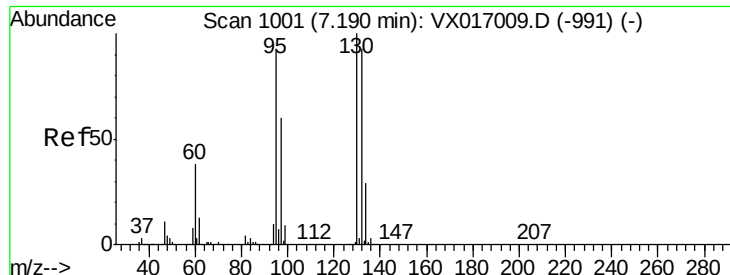


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: Below Cal

RT: 7.20 min Scan# 1003

Delta R.T. 0.01 min

Lab File: VX017341.D

Acq: 10 Jul 2020 17:27

Instrument :

MSVOA_X

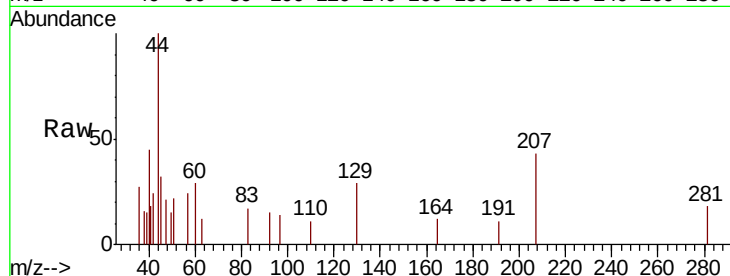
ClientSampled :

Tot Ion:130 Resp: 200

Ion Ratio Lower Upper

130 100

95 0.0 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

200

150

100

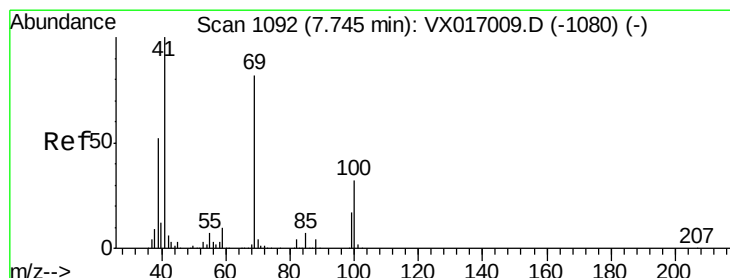
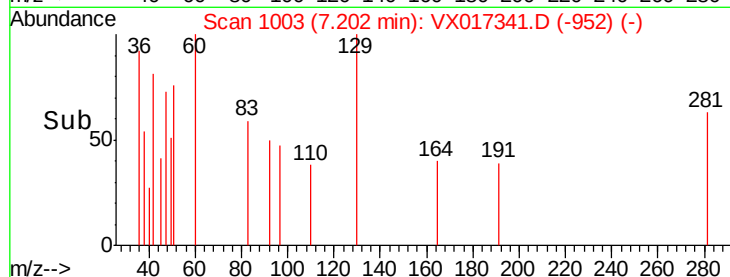
50

0

7.15

7.20

Time-->



#48

Methyl methacrylate

Concen: 1.226 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.09 min

Lab File: VX017341.D

Acq: 10 Jul 2020 17:27

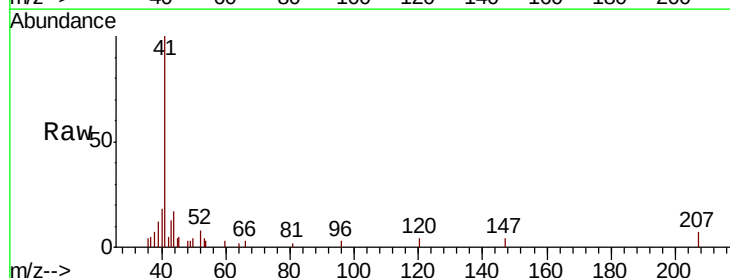
Tgt Ion: 41 Resp: 3900

Ion Ratio Lower Upper

41 100

69 0.0 65.8 98.8#

39 0.0 42.5 63.7#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

3000

2500

2000

1500

1000

500

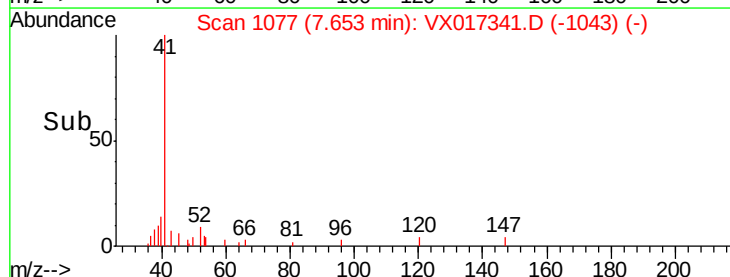
0

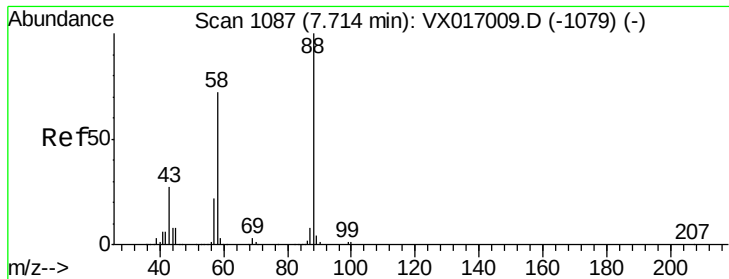
7.60

7.65

7.70

Time-->





#49

1,4-Dioxane

Concen: 1.679 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.13 min

Lab File: VX017341.D

Acq: 10 Jul 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

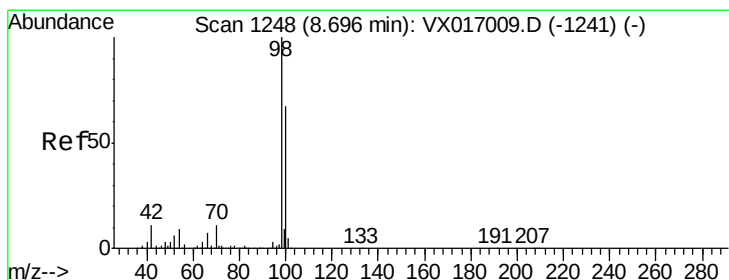
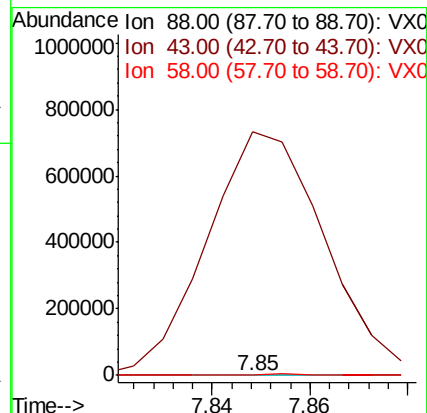
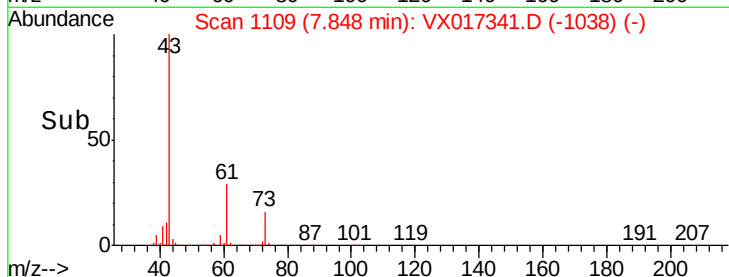
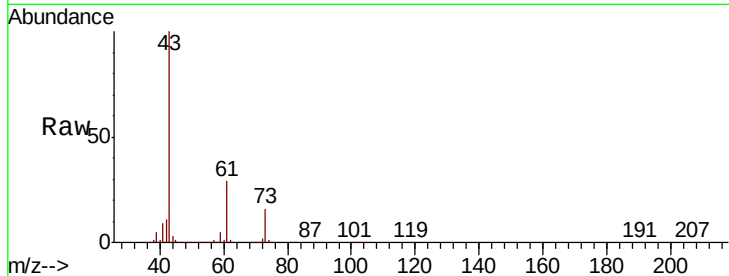
Tot Ion: 88 Resp: 121

Ion Ratio Lower Upper

88 100

43 1031940.5 25.8 38.8#

58 4967.8 54.8 82.2#



#50

Toluene-d8

Concen: 53.237 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017341.D

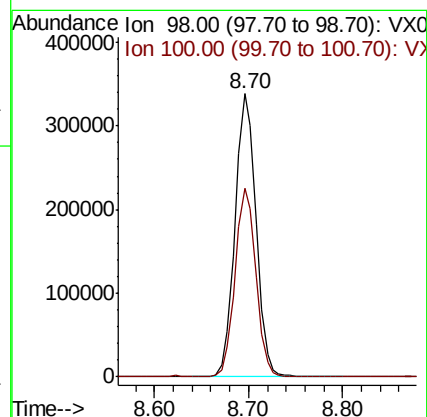
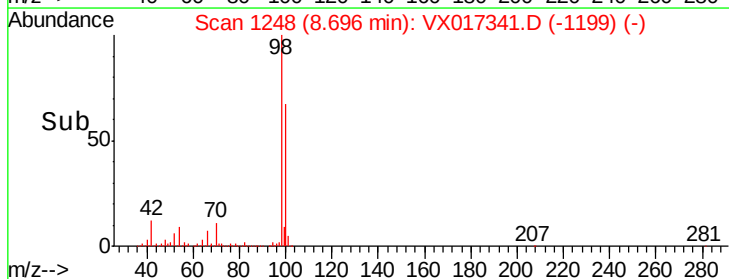
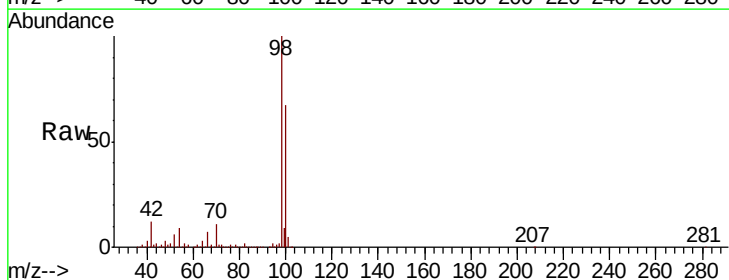
Acq: 10 Jul 2020 17:27

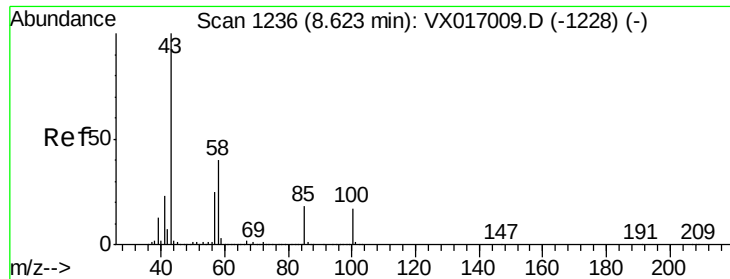
Tgt Ion: 98 Resp: 523287

Ion Ratio Lower Upper

98 100

100 66.4 53.8 80.6

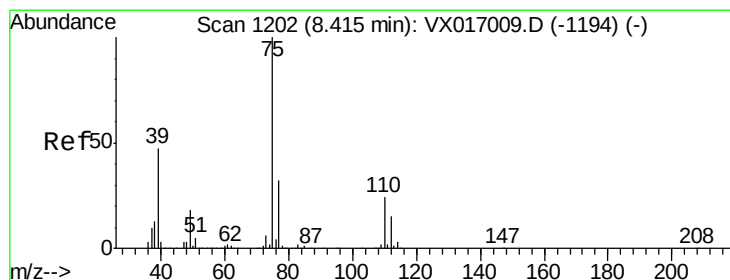
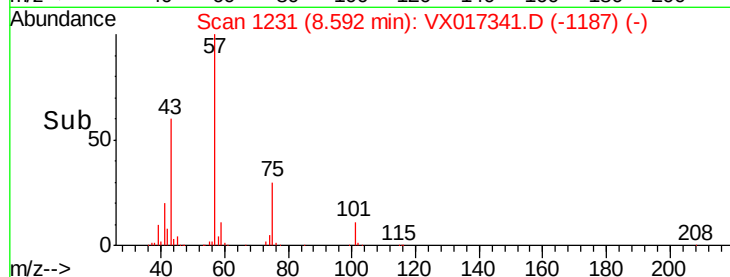
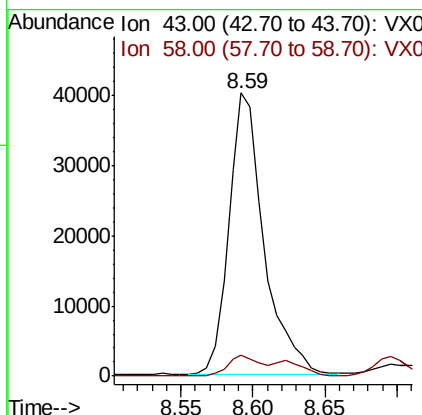
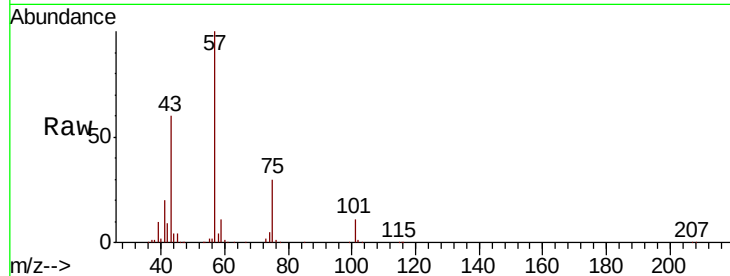




#51
 4-Methyl-2-Pentanone
 Concen: 17.102 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. -0.03 min
 Lab File: VX017341.D
 Acq: 10 Jul 2020 17:27

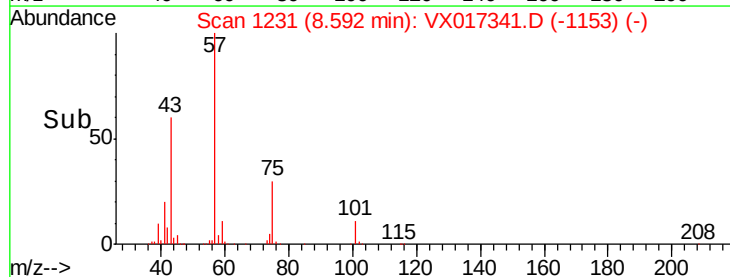
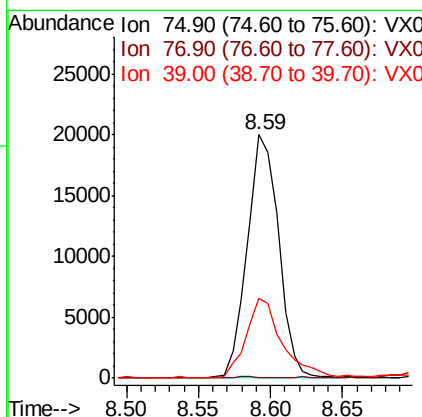
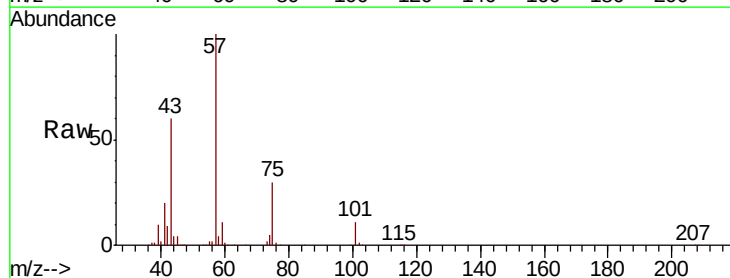
Instrument :
 MSVOA_X
 ClientSampleId :

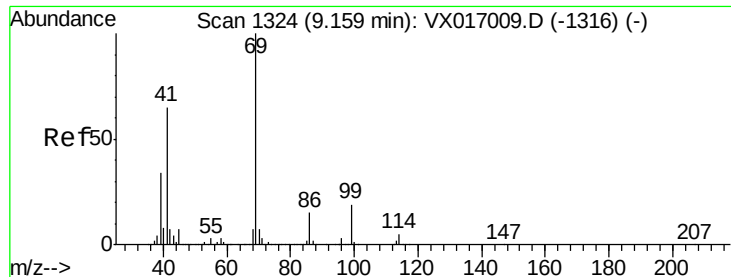
Tot Ion: 43 Resp: 68262
 Ion Ratio Lower Upper
 43 100
 58 6.7 31.9 47.9#



#54
 cis-1,3-Dichloropropene
 Concen: 6.056 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX017341.D
 Acq: 10 Jul 2020 17:27

Tgt Ion: 75 Resp: 30206
 Ion Ratio Lower Upper
 75 100
 77 0.3 25.2 37.8#
 39 32.8 37.4 56.2#





#56

Ethyl methacrylate

Concen: 0.332 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX017341.D

Acq: 10 Jul 2020 17:27

Instrument :

MSVOA_X

ClientSampled :

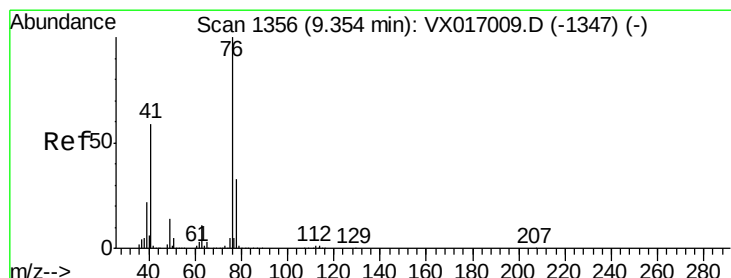
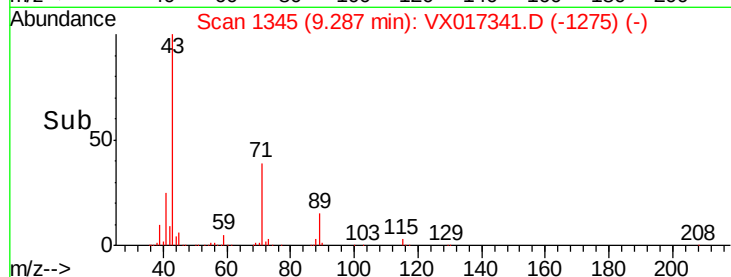
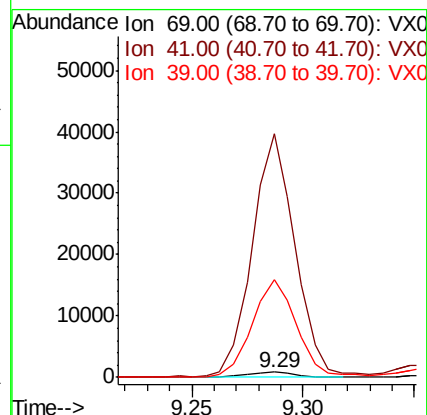
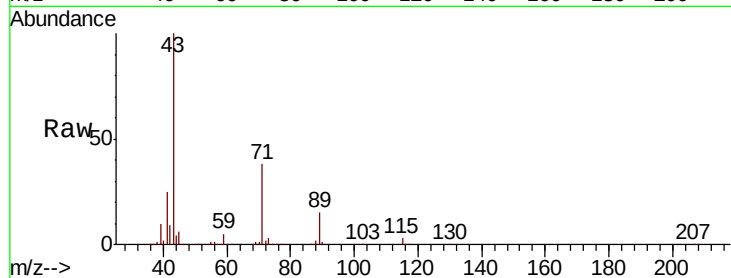
Tot Ion: 69 Resp: 1408

Ion Ratio Lower Upper

69 100

41 3794.0 53.6 80.4#

39 1585.5 28.2 42.2#



#57

1,3-Dichloropropane

Concen: 1.083 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX017341.D

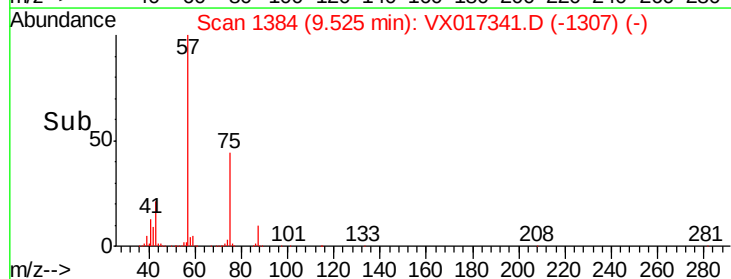
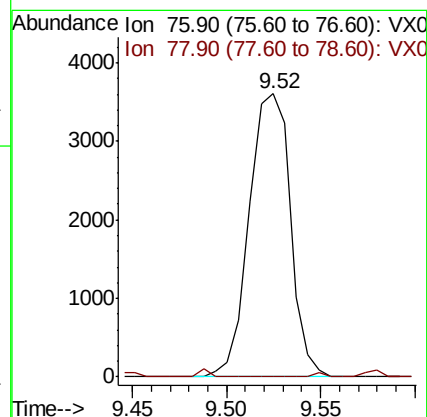
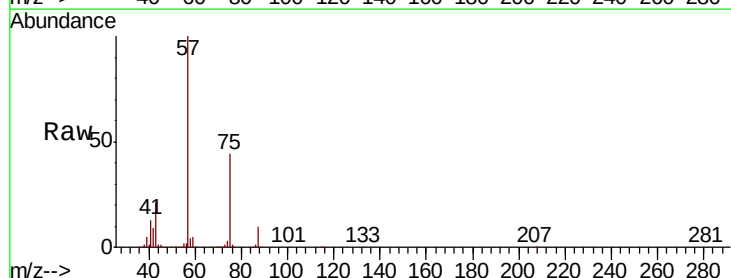
Acq: 10 Jul 2020 17:27

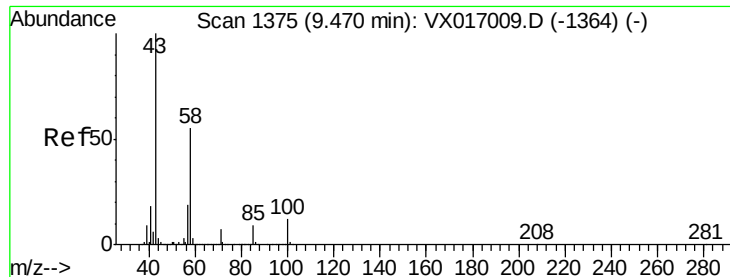
Tgt Ion: 76 Resp: 5455

Ion Ratio Lower Upper

76 100

78 0.0 25.9 38.9#

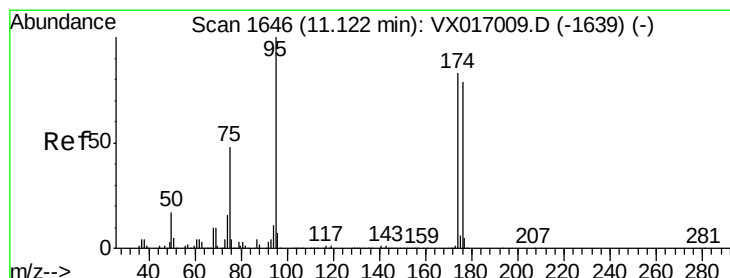
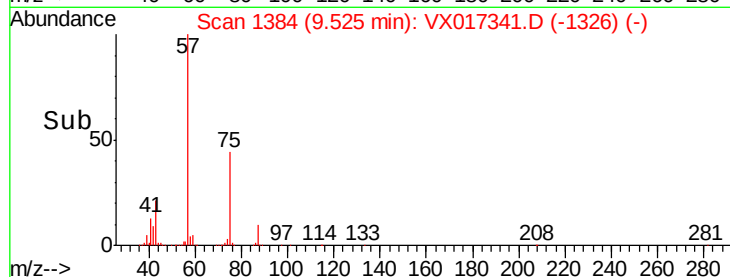
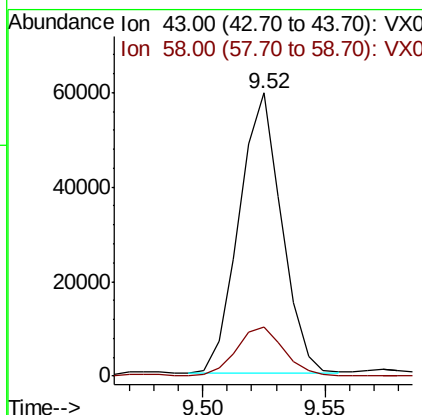
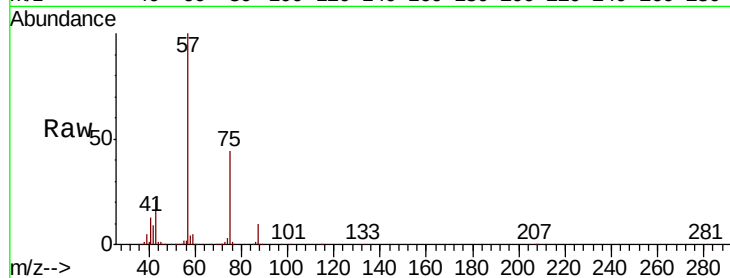




#59
2-Hexanone
Concen: 24.690 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

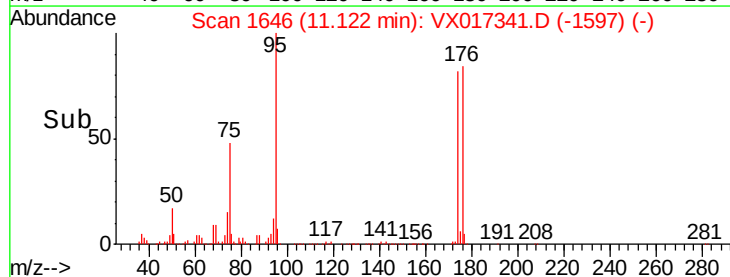
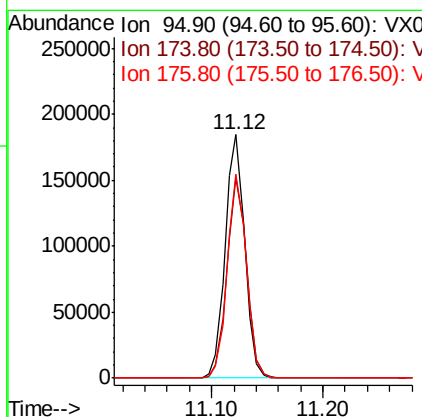
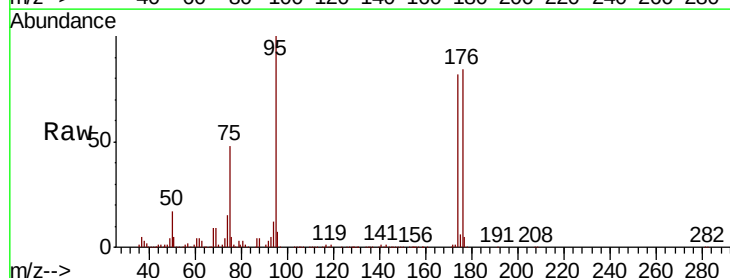
Instrument :
MSVOA_X
ClientSampleId :

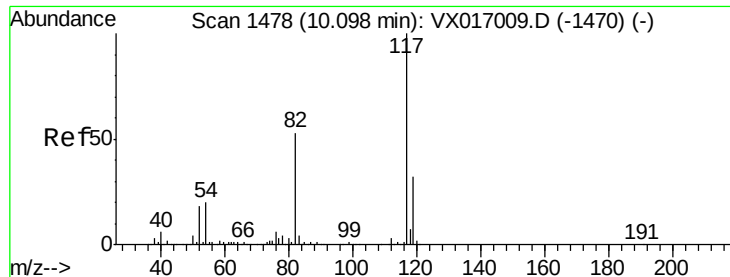
Tot Ion: 43 Resp: 71973
Ion Ratio Lower Upper
43 100
58 19.8 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 58.197 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017341.D
Acq: 10 Jul 2020 17:27

Tgt Ion: 95 Resp: 223618
Ion Ratio Lower Upper
95 100
174 82.9 0.0 164.0
176 82.1 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: VX017341.D

Acq: 10 Jul 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

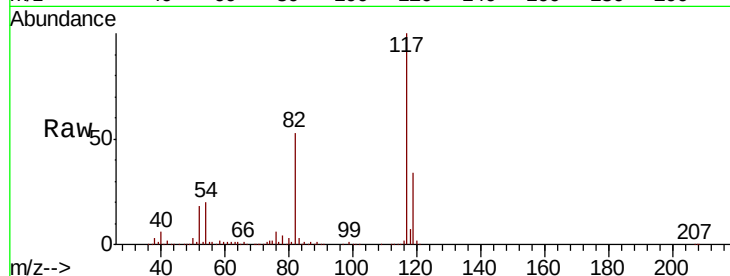
Tot Ion:117 Resp: 452259

Ion Ratio Lower Upper

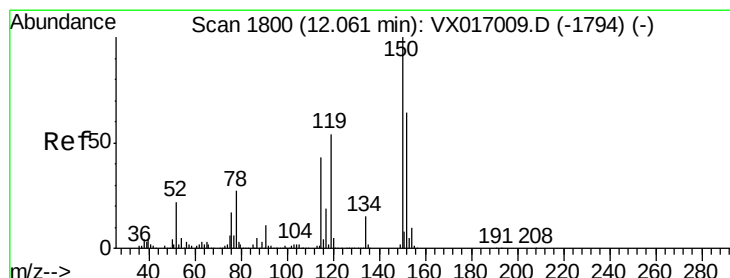
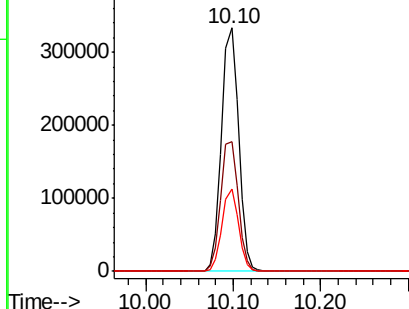
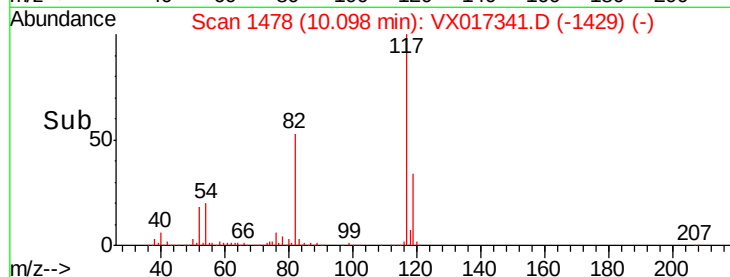
117 100

82 53.1 42.6 63.8

119 33.6 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: VX017341.D

Acq: 10 Jul 2020 17:27

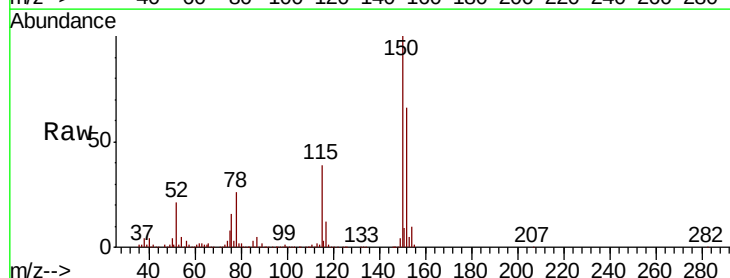
Tgt Ion:152 Resp: 235677

Ion Ratio Lower Upper

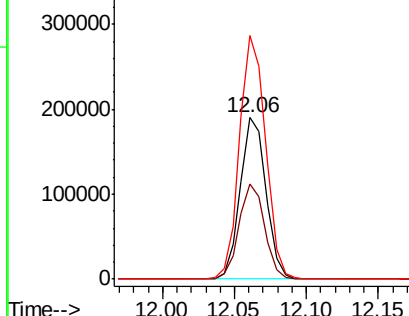
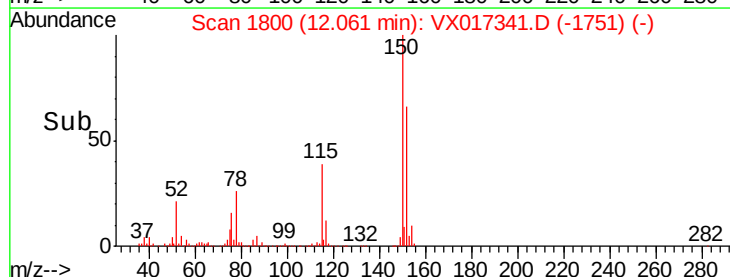
152 100

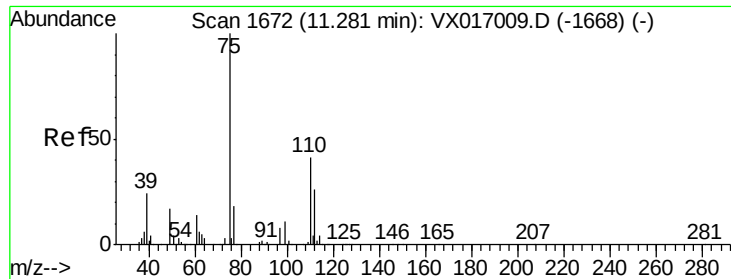
115 58.5 40.9 122.7

150 153.0 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





#76

1,2,3-Trichloropropane

Concen: 23.866 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017341.D

Acq: 10 Jul 2020 17:27

Instrument :

MSVOA_X

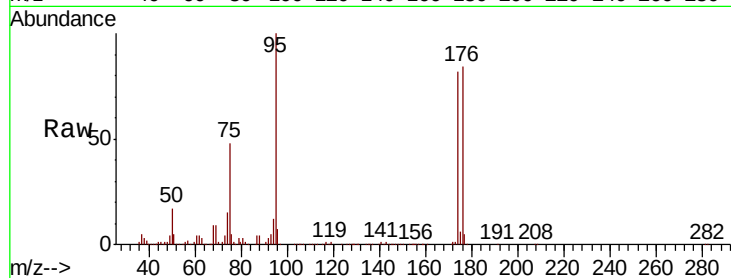
ClientSampleId :

Tot Ion: 75 Resp: 110606

Ion Ratio Lower Upper

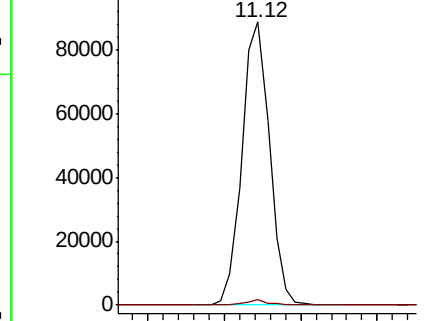
75 100

77 1.6 20.2 60.6#

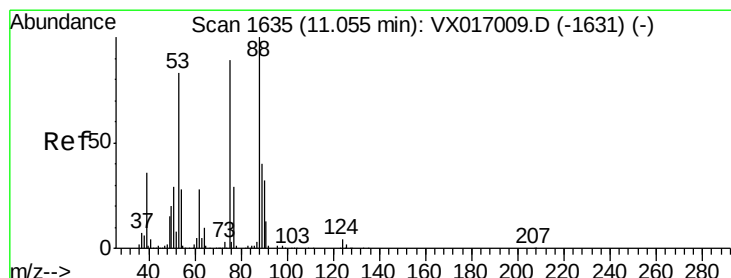
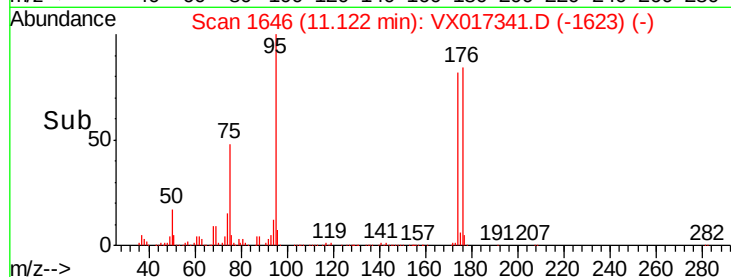


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.804 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017341.D

Acq: 10 Jul 2020 17:27

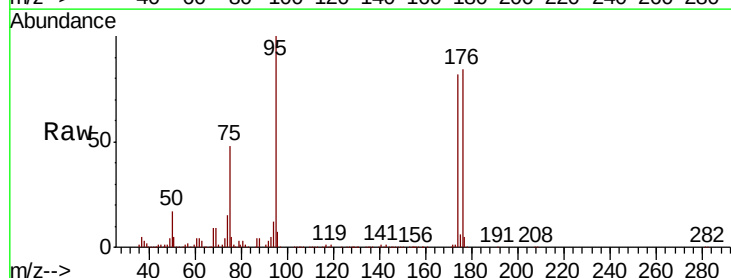
Tgt Ion: 75 Resp: 110606

Ion Ratio Lower Upper

75 100

53 0.1 72.4 108.6#

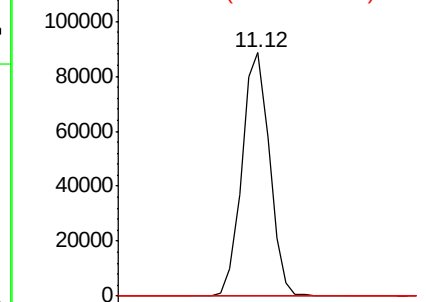
89 0.1 37.0 55.4#



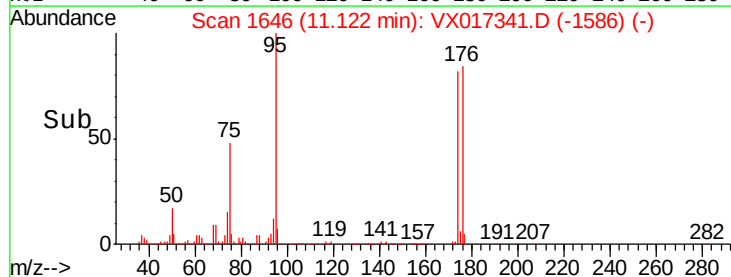
Abundance Ion 74.90 (74.60 to 75.60): VX0

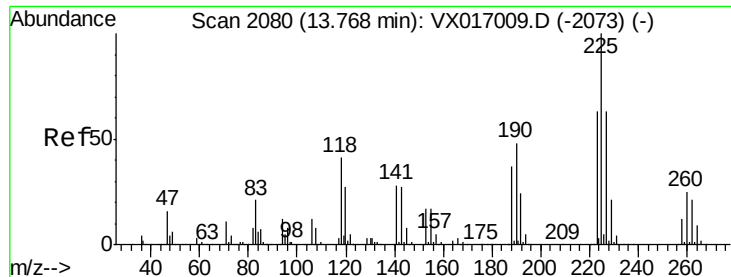
Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->





#94

Hexachlorobutadiene

Concen: 0.945 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX017341.D

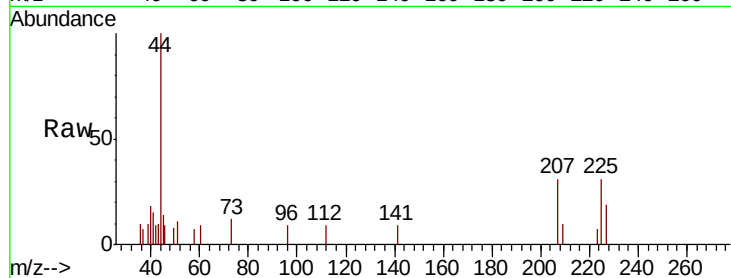
Acq: 10 Jul 2020 17:27

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	225	Resp:	192
Ion	Ratio	Lower	Upper
225	100		
223	72.4	32.5	97.5
227	61.5	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

