

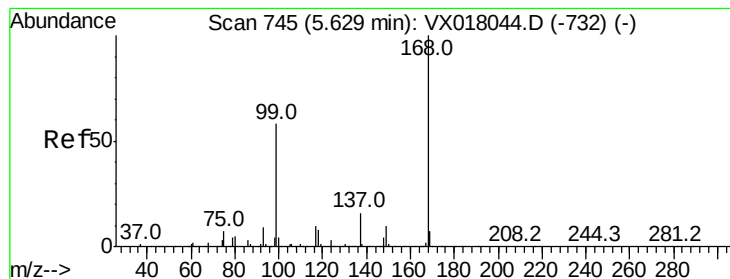
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091420\
 Data File : VX018394.D
 Acq On : 14 Sep 2020 19:15
 Operator : JC/SP
 Sample : L3869-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 15 05:12:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	437121	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	720029	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	716970	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	337416	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	321397	52.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.92%	
35) Dibromofluoromethane	5.46	113	253149	51.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.24%	
50) Toluene-d8	8.70	98	906398	49.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.26%	
62) 4-Bromofluorobenzene	11.12	95	342417	47.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.30%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.50	142	423	5.372	ug/l	99
11) Tert butyl alcohol	3.00	59	4421	3.747	ug/l #	77
13) Acrolein	2.28	56	539	1.102	ug/l #	14
16) Acetone	2.42	43	24720	10.454	ug/l	94
18) Methyl Acetate	2.75	43	8769	1.537	ug/l	97
20) Methylene Chloride	2.84	84	12945	1.546	ug/l	94
25) 2-Butanone	4.65	43	6570	1.691	ug/l #	76
29) Tetrahydrofuran	5.09	42	801	0.324	ug/l #	27
36) 1,1-Dichloropropene	5.63	75	33546	5.051	ug/l #	53
38) Carbon Tetrachloride	5.63	117	46577	6.223	ug/l #	16
40) Benzene	6.11	78	4792	0.246	ug/l	99
42) 1,2-Dichloroethane	6.17	62	1526	0.204	ug/l	97
43) Isopropyl Acetate	6.42	43	117412	9.424	ug/l	99
48) Methyl methacrylate	7.65	41	6374	1.028	ug/l #	16
49) 1,4-Dioxane	7.70	88	185	1.647	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	118739	15.429	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	50178	5.787	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	8063	0.926	ug/l #	50
59) 2-Hexanone	9.52	43	107816	18.425	ug/l #	51
74) N-amyl acetate	10.85	43	2549	0.241	ug/l #	55
76) 1,2,3-Trichloropropane	11.12	75	182760	24.349	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	182760	65.762	ug/l #	12

(#) = 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. -0.00 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

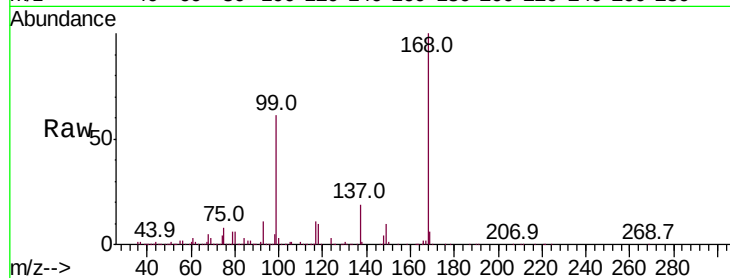
ClientSampleId :

Tot Ion:168 Resp: 437121

Ion Ratio Lower Upper

168 100

99 61.2 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

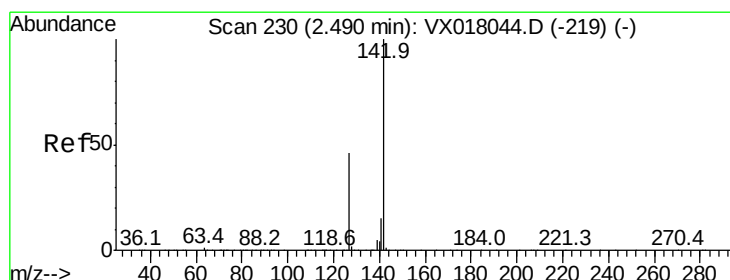
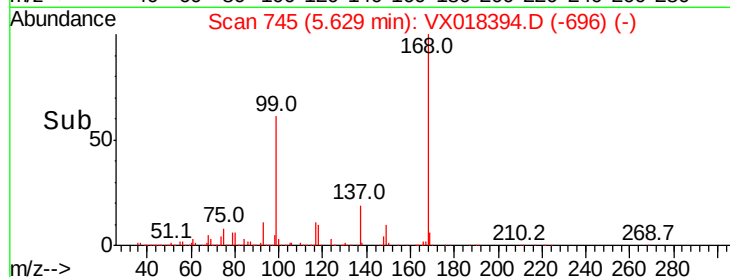
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 5.372 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

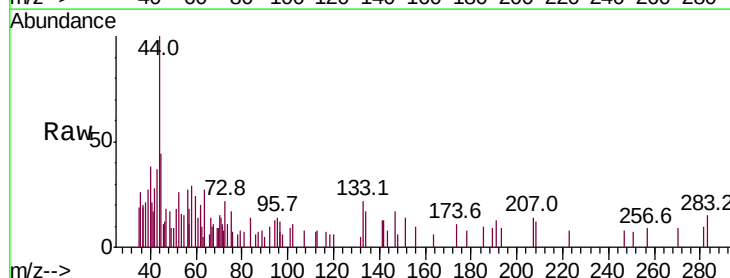
Tgt Ion:142 Resp: 423

Ion Ratio Lower Upper

142 100

127 45.9 37.0 55.6

141 14.9 11.5 17.3



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.50

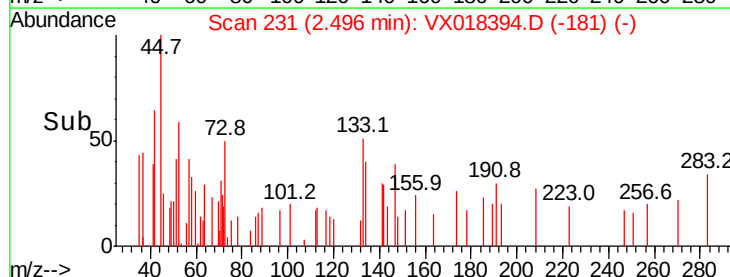
300

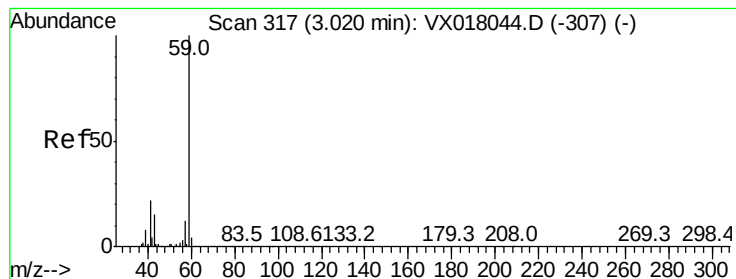
200

100

0

Time-->



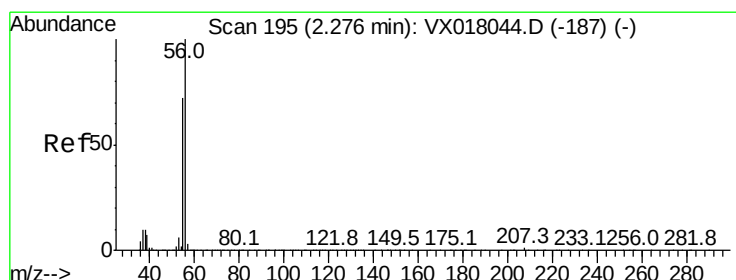
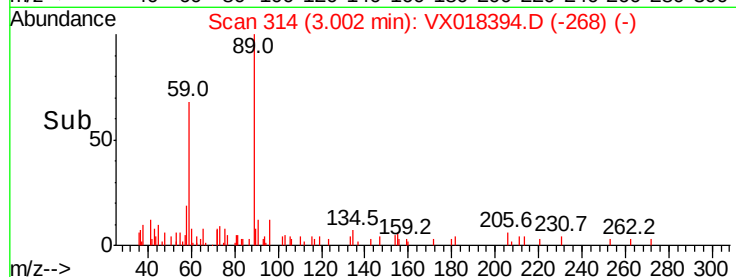
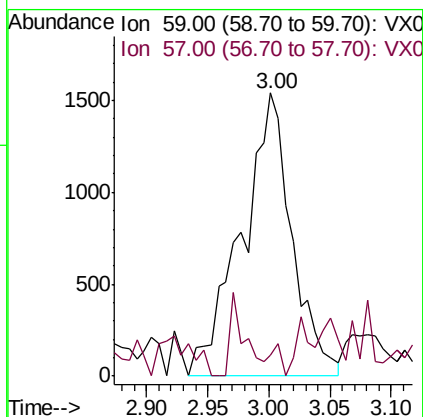
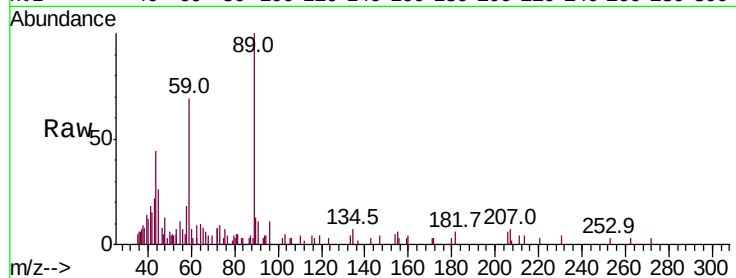


#11

Tert butyl alcohol
Concen: 3.747 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX018394.D
Acq: 14 Sep 2020 19:15

Instrument :
MSVOA_X
ClientSampleId :

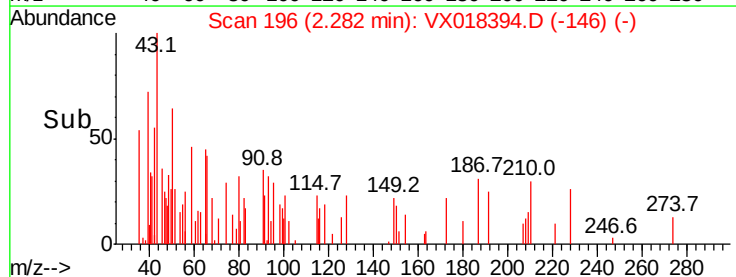
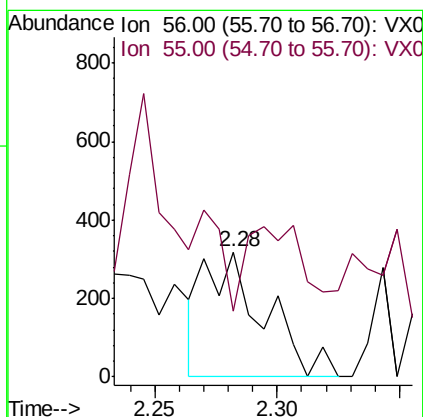
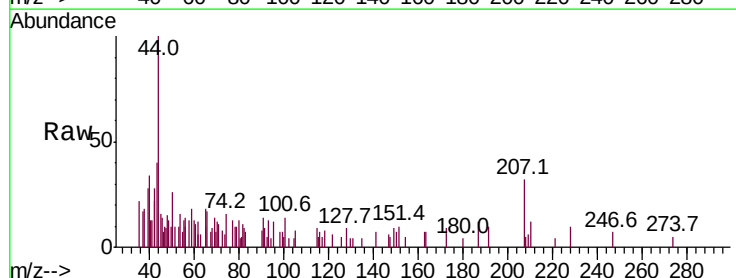
Tot Ion: 59 Resp: 4421
Ion Ratio Lower Upper
59 100
57 2.4 8.9 13.3#

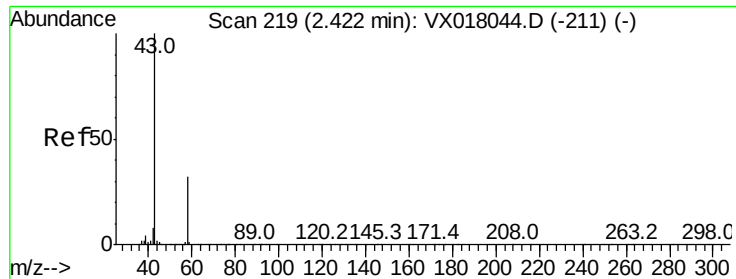


#13

Acrolein
Concen: 1.102 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX018394.D
Acq: 14 Sep 2020 19:15

Tgt Ion: 56 Resp: 539
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.6#

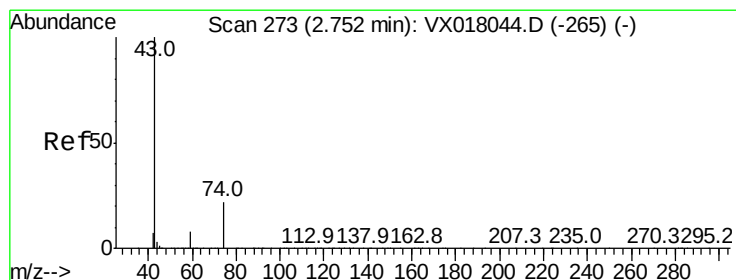
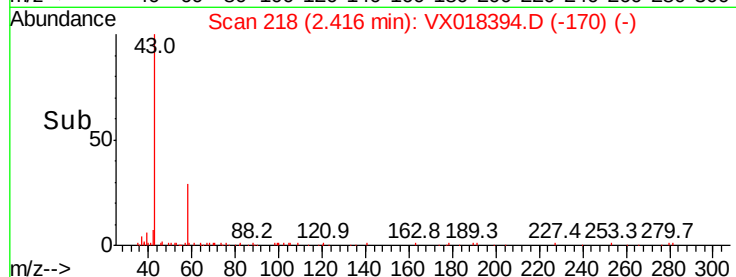
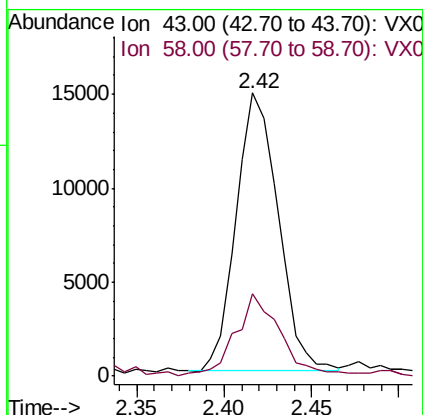
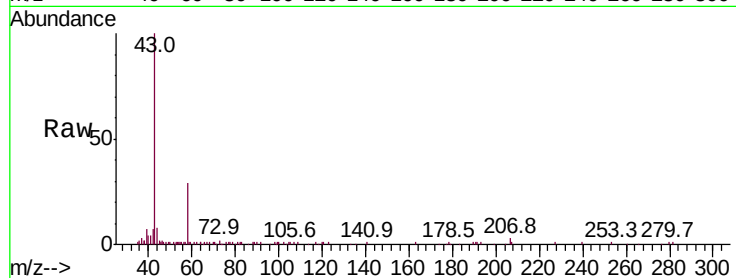




#16
Acetone
Concen: 10.454 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX018394.D
Acq: 14 Sep 2020 19:15

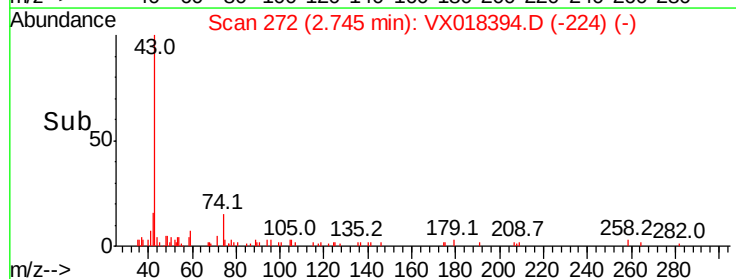
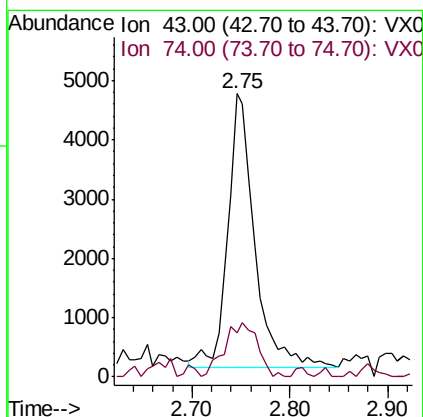
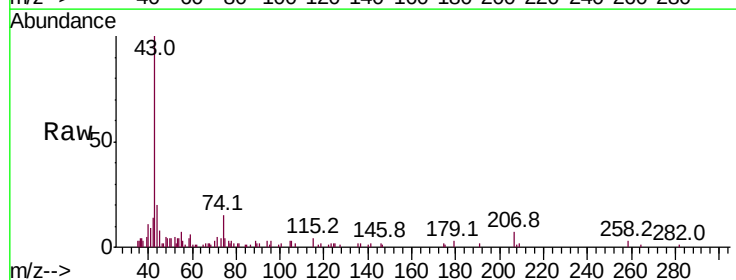
Instrument :
MSVOA_X
ClientSampleId :

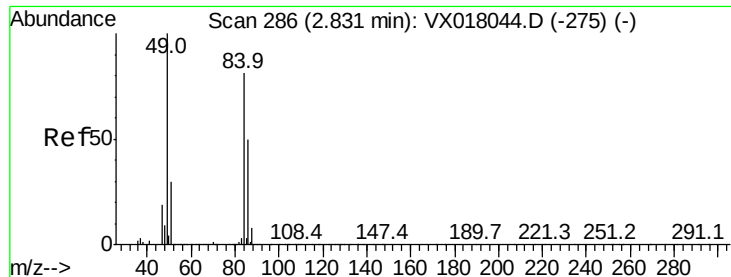
Tot Ion: 43 Resp: 24720
Ion Ratio Lower Upper
43 100
58 28.6 25.5 38.3



#18
Methyl Acetate
Concen: 1.537 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX018394.D
Acq: 14 Sep 2020 19:15

Tgt Ion: 43 Resp: 8769
Ion Ratio Lower Upper
43 100
74 24.2 18.2 27.4

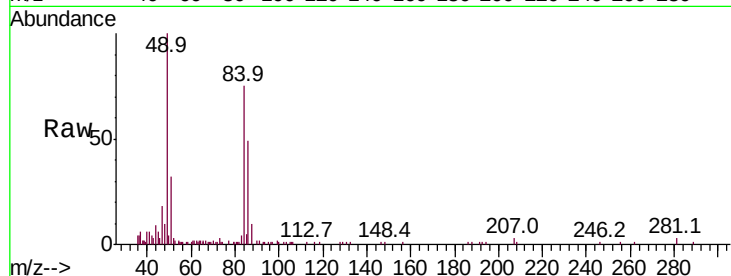




#20
Methvlene Chloride
Concen: 1.546 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018394.D
Acq: 14 Sep 2020 19:15

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	84	Resp	12945
Ion Ratio	Lower	Upper	
84	100		
49	129.9	98.6	148.0
51	42.4	29.6	44.4
86	65.3	49.8	74.6



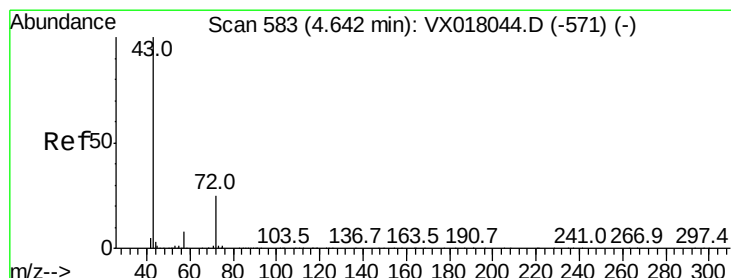
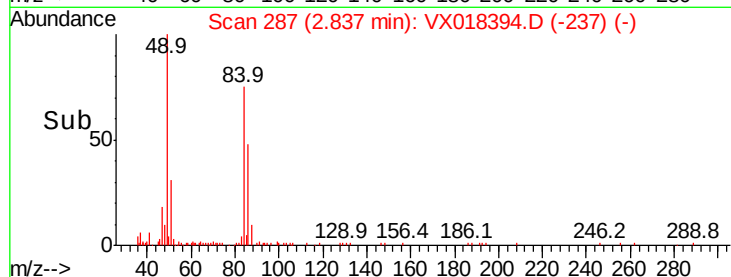
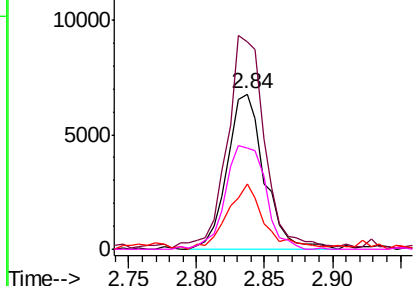
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

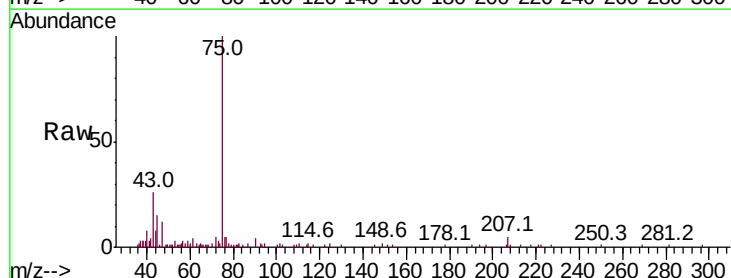
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25
2-Butanone
Concen: 1.691 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX018394.D
Acq: 14 Sep 2020 19:15

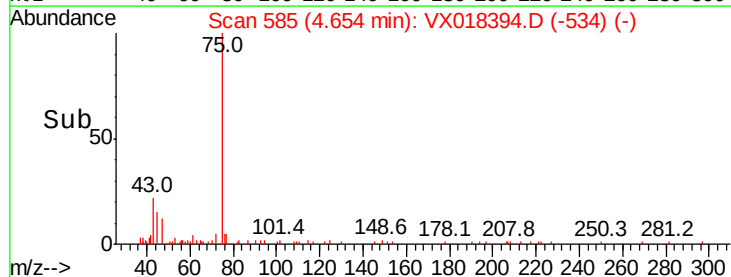
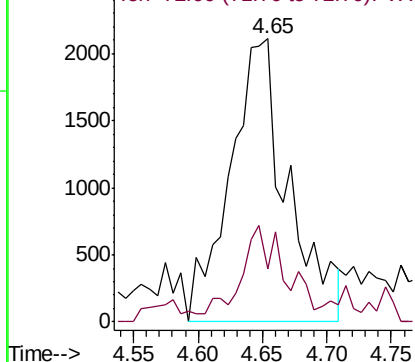
Tgt Ion	43	Resp	6570
Ion Ratio	Lower	Upper	
43	100		
72	12.5	19.8	29.6#

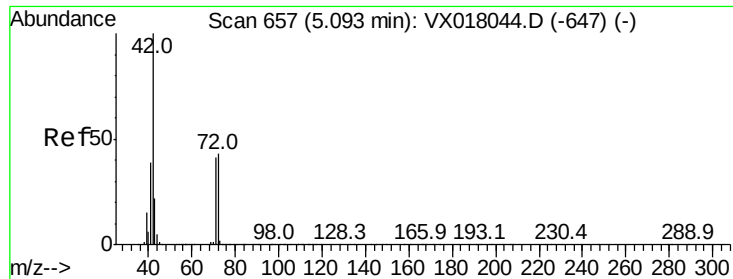


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

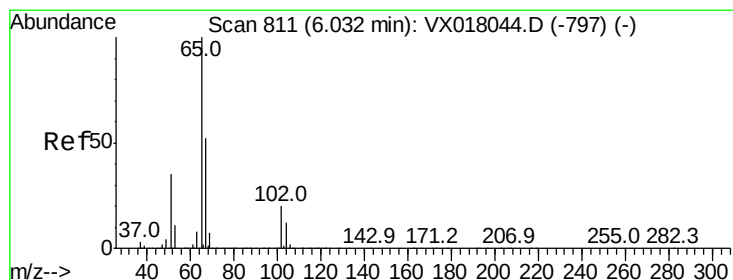
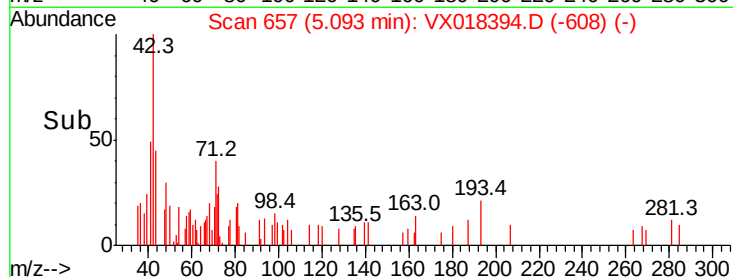
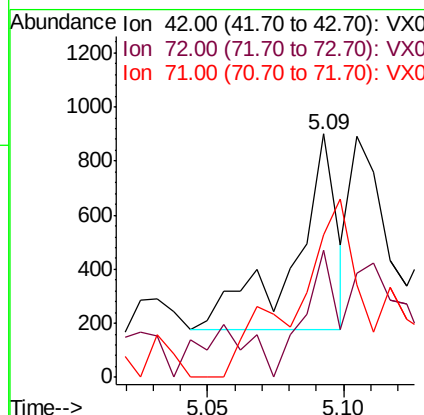
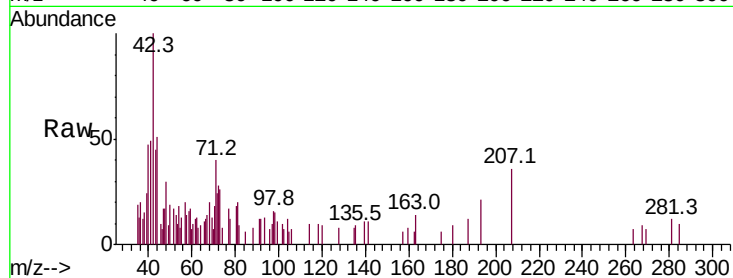




#29
Tetrahydrofuran
Concen: 0.324 ug/l
RT: 5.09 min Scan# 657
Delta R.T. -0.00 min
Lab File: VX018394.D
Acq: 14 Sep 2020 19:15

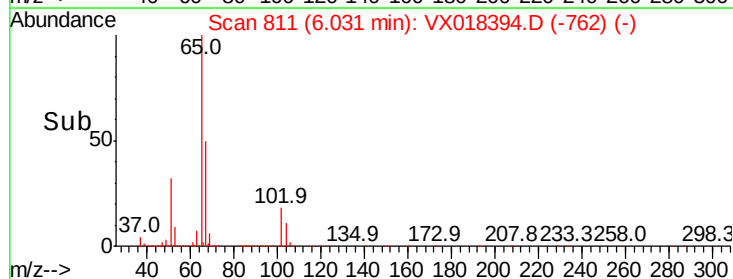
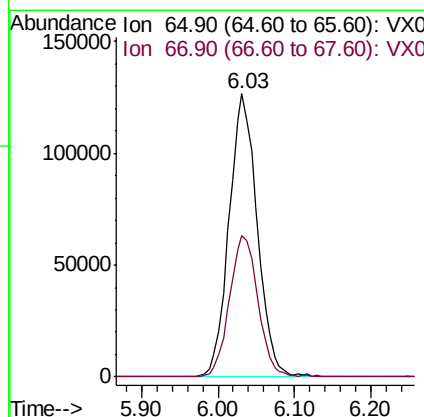
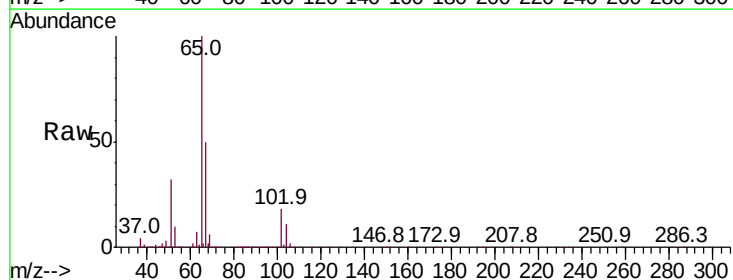
Instrument :
MSVOA_X
ClientSampled :

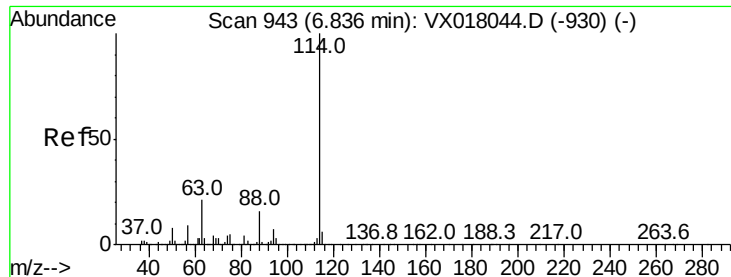
Tot Ion: 42 Resp: 801
Ion Ratio Lower Upper
42 100
72 47.3 34.2 51.4
71 129.2 32.1 48.1#



#33
1,2-Dichloroethane-d4
Concen: 52.963 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX018394.D
Acq: 14 Sep 2020 19:15

Tgt Ion: 65 Resp: 321397
Ion Ratio Lower Upper
65 100
67 50.3 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

ClientSampleId :

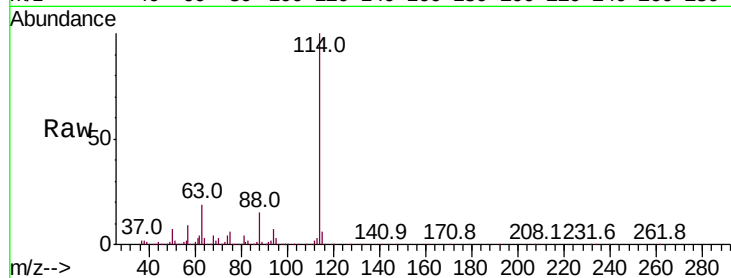
Tot Ion:114 Resp: 720029

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.6

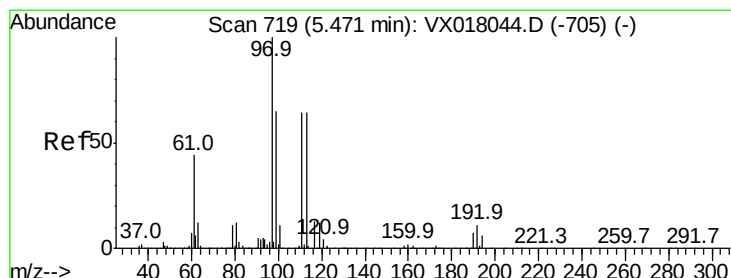
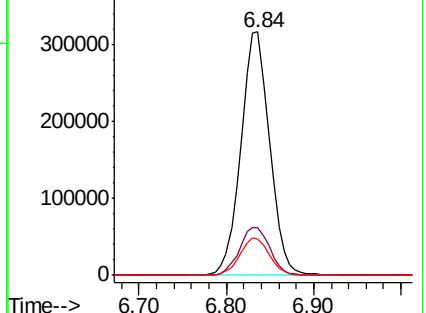
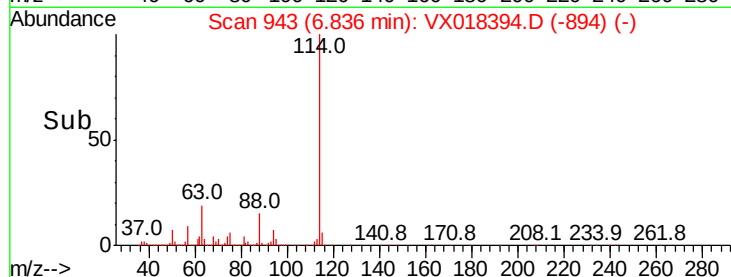
88 15.1 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 51.624 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

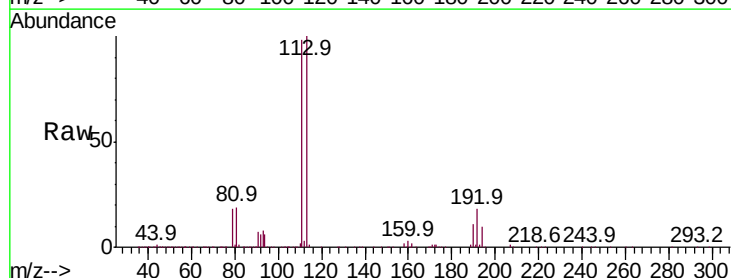
Tgt Ion:113 Resp: 253149

Ion Ratio Lower Upper

113 100

111 100.7 81.6 122.4

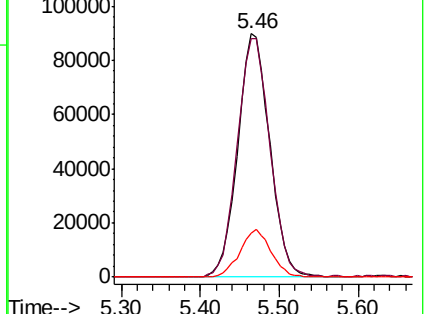
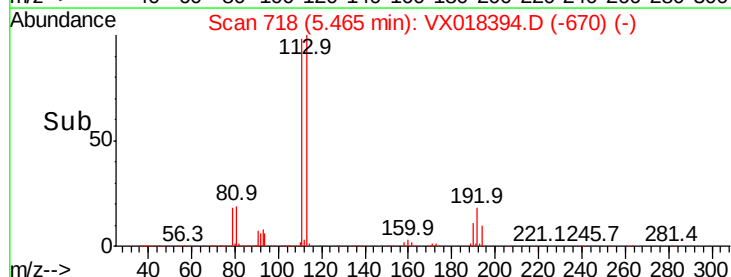
192 19.1 15.8 23.8

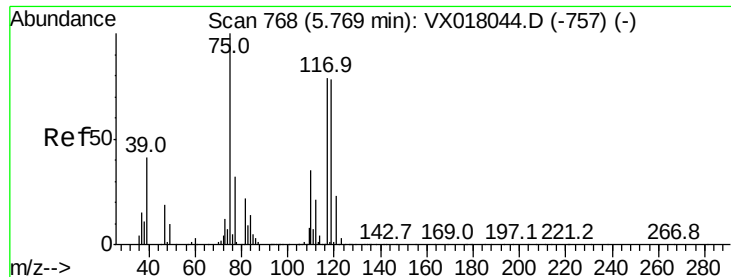


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.051 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

ClientSampleId :

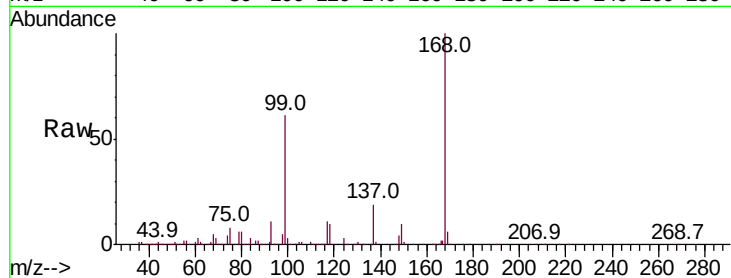
Tot Ion: 75 Resp: 33546

Ion Ratio Lower Upper

75 100

110 12.5 18.0 54.0#

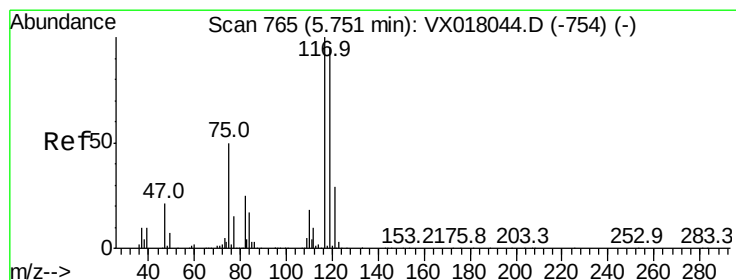
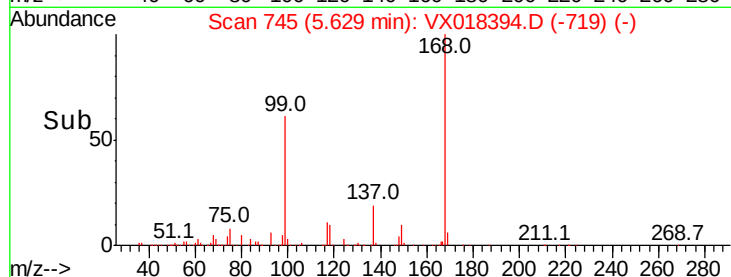
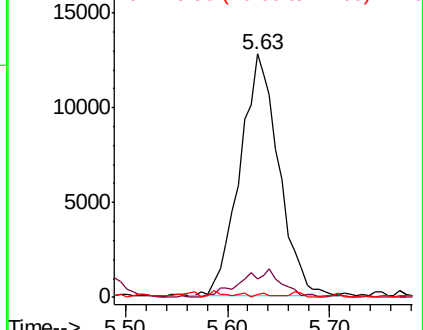
77 0.7 24.4 36.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.223 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

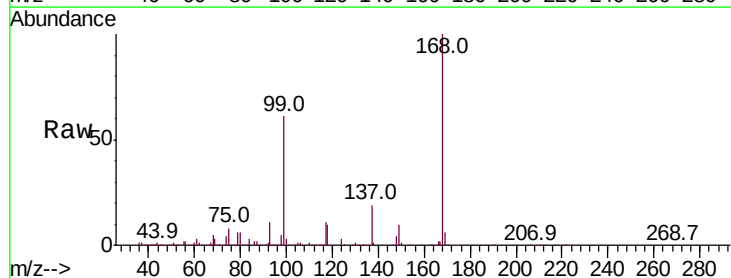
Tgt Ion: 117 Resp: 46577

Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.6#

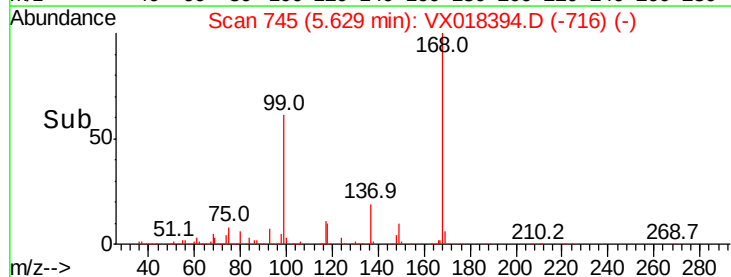
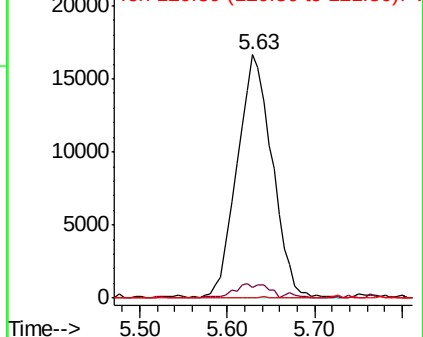
121 0.0 23.4 35.0#

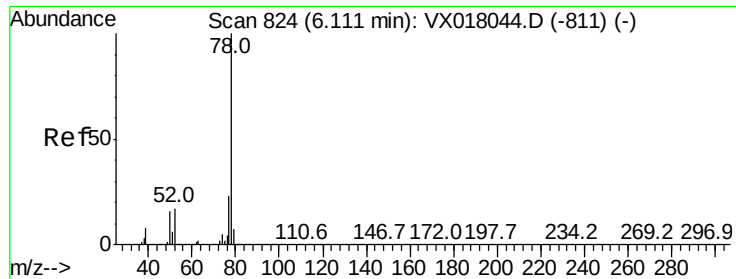


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.246 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.00 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

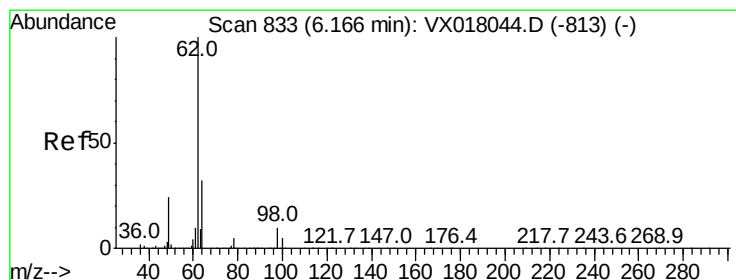
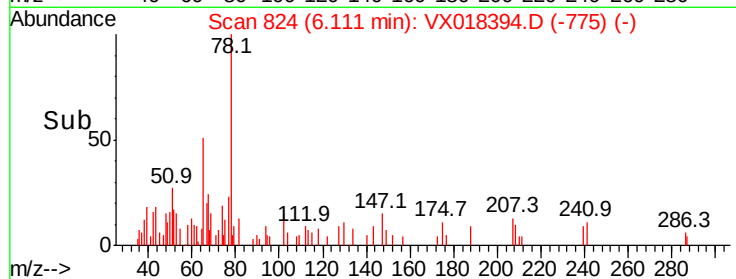
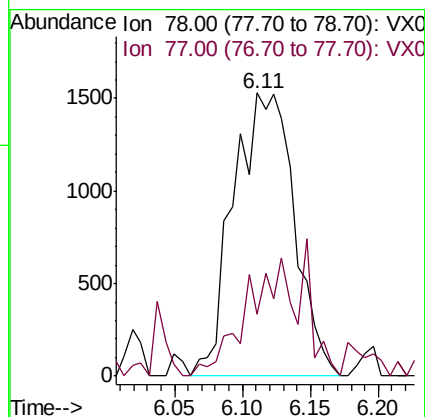
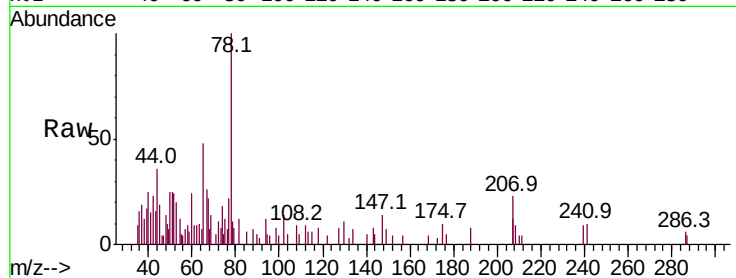
ClientSampled :

Tot Ion: 78 Resp: 4792

Ion Ratio Lower Upper

78 100

77 22.0 18.2 27.2



#42

1,2-Dichloroethane

Concen: 0.204 ug/l

RT: 6.17 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX018394.D

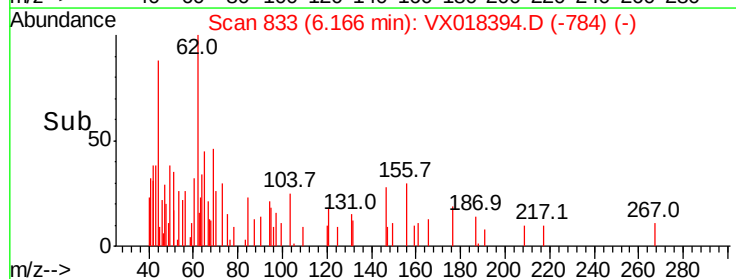
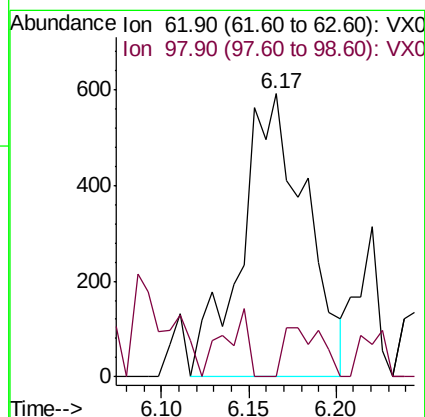
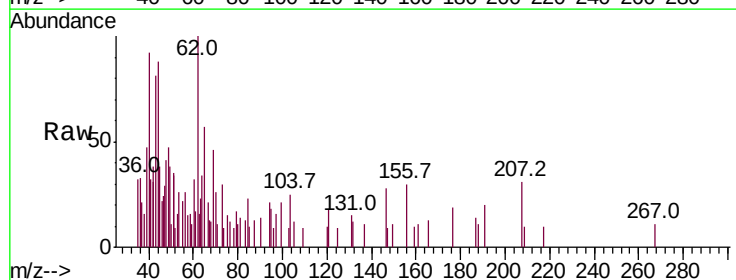
Acq: 14 Sep 2020 19:15

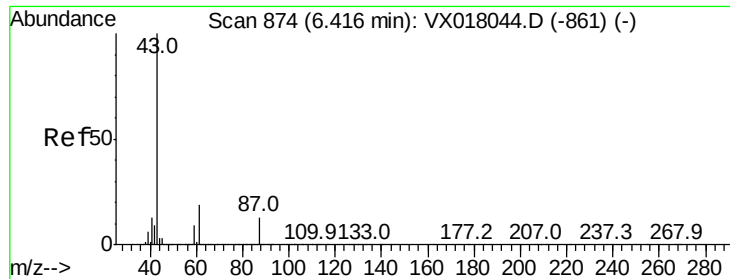
Tgt Ion: 62 Resp: 1526

Ion Ratio Lower Upper

62 100

98 10.3 0.0 18.2





#43

Isopropyl Acetate

Concen: 9.424 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

ClientSampleId :

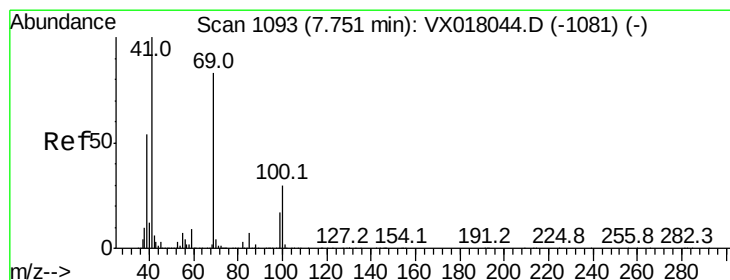
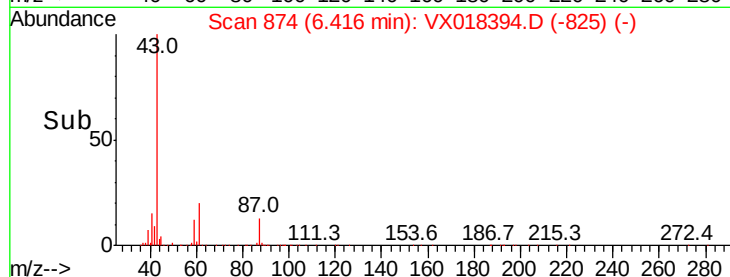
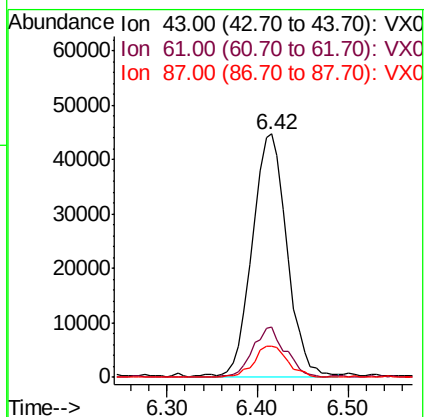
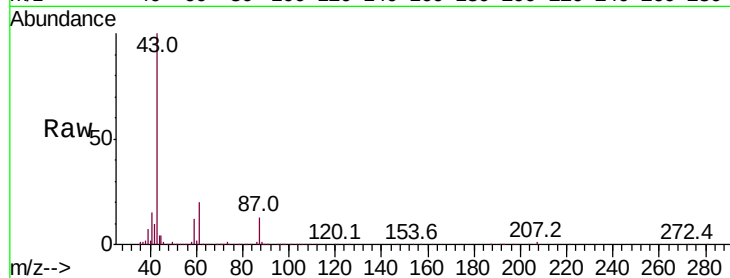
Tot Ion: 43 Resp: 117412

Ion Ratio Lower Upper

43 100

61 19.3 15.7 23.5

87 12.7 10.3 15.5



#48

Methyl methacrylate

Concen: 1.028 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.10 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

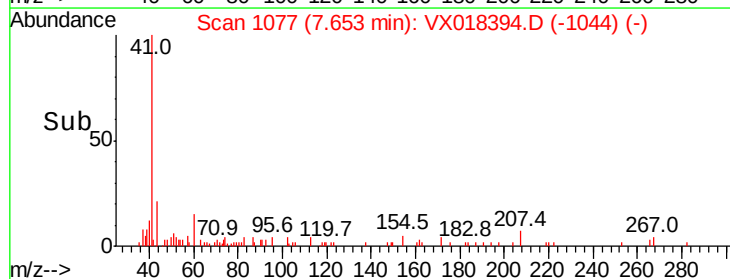
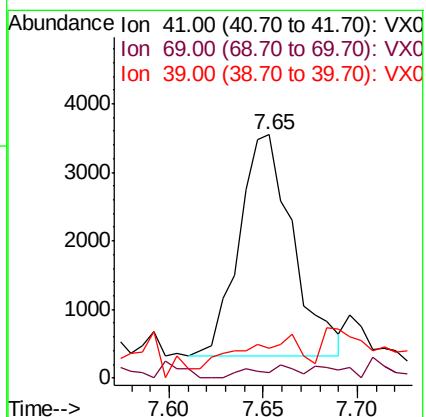
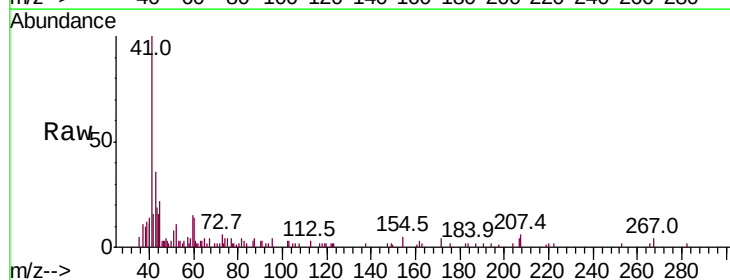
Tgt Ion: 41 Resp: 6374

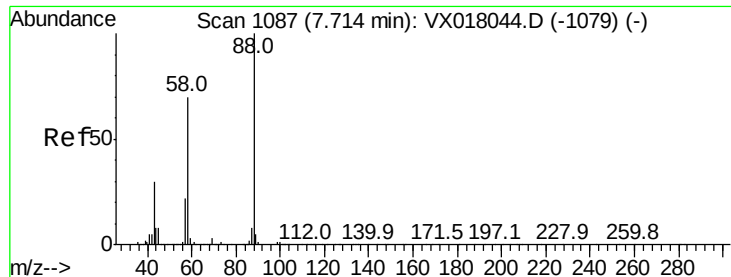
Ion Ratio Lower Upper

41 100

69 1.8 65.5 98.3#

39 0.0 44.5 66.7#





#49

1,4-Dioxane

Concen: 1.647 ug/l

RT: 7.70 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

ClientSampleId :

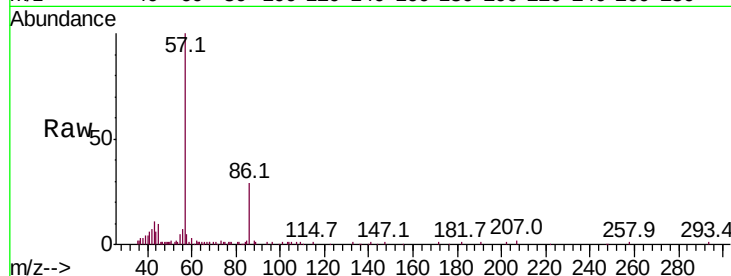
Tot Ion: 88 Resp: 185

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

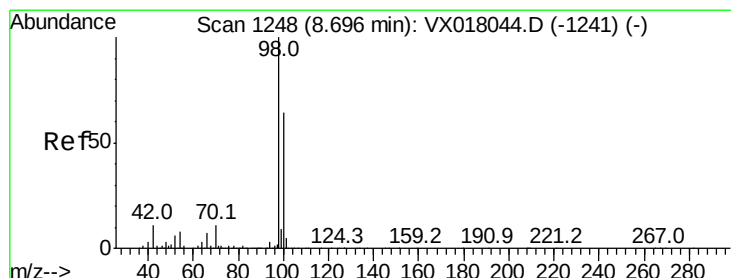
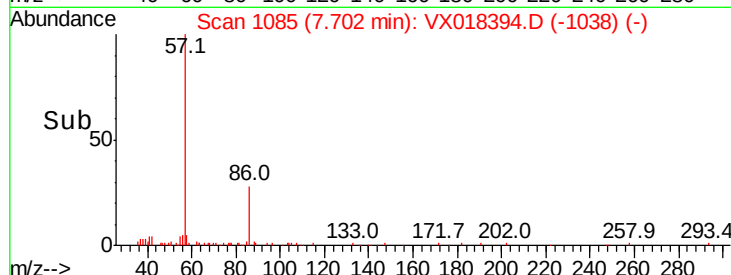
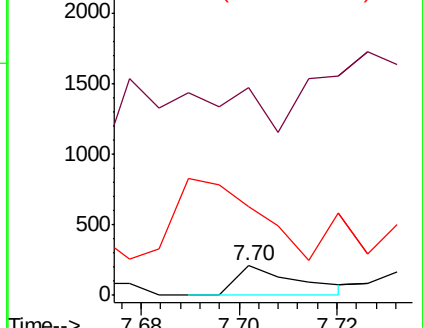
58 687.6 56.4 84.6#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.627 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018394.D

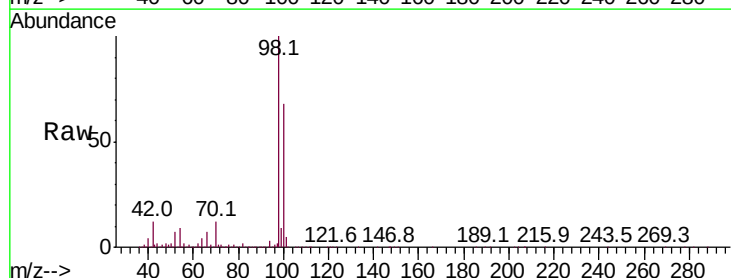
Acq: 14 Sep 2020 19:15

Tgt Ion: 98 Resp: 906398

Ion Ratio Lower Upper

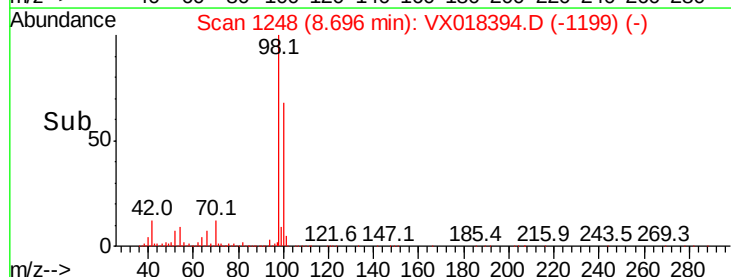
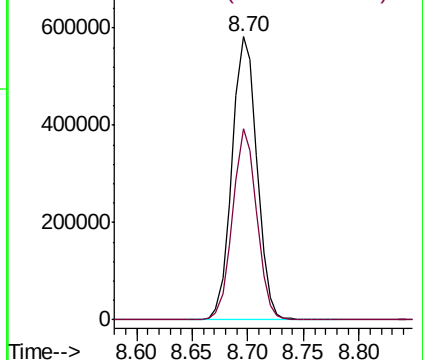
98 100

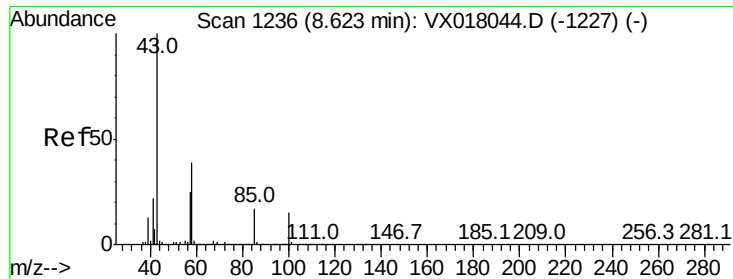
100 65.1 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 15.429 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

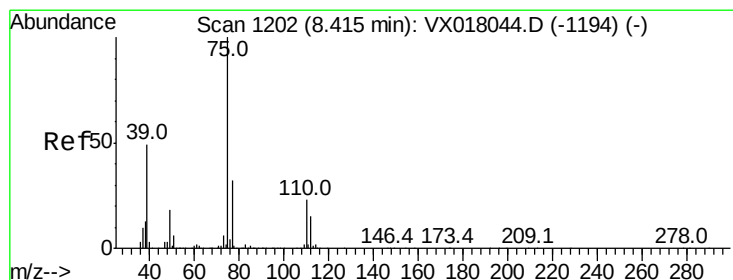
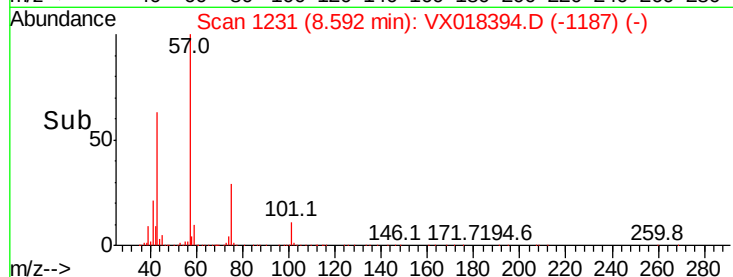
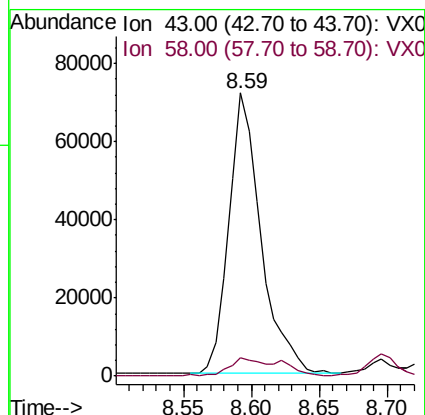
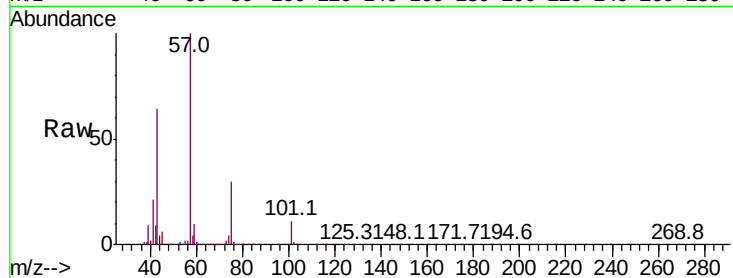
Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 118739

Ion	Ratio	Lower	Upper
43	100		
58	6.7	30.7	46.1#



#54

cis-1,3-Dichloropropene

Concen: 5.787 ug/l

RT: 8.59 min Scan# 1231

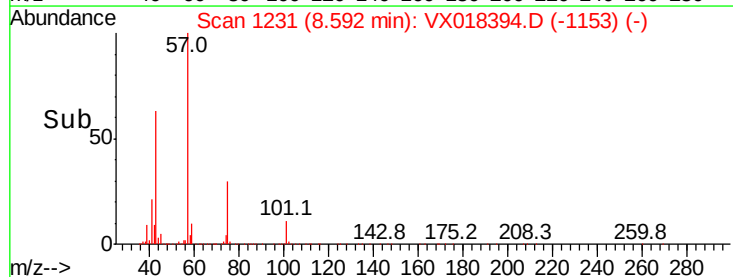
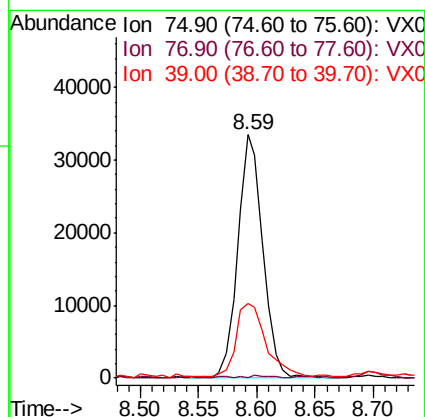
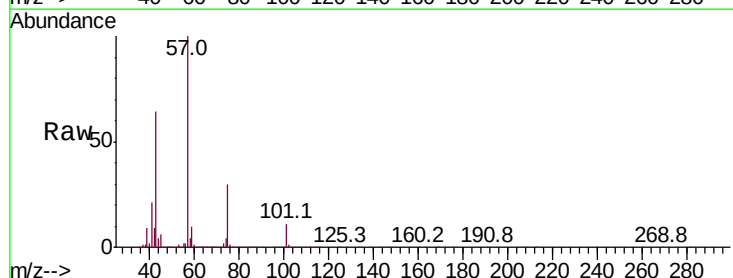
Delta R.T. 0.18 min

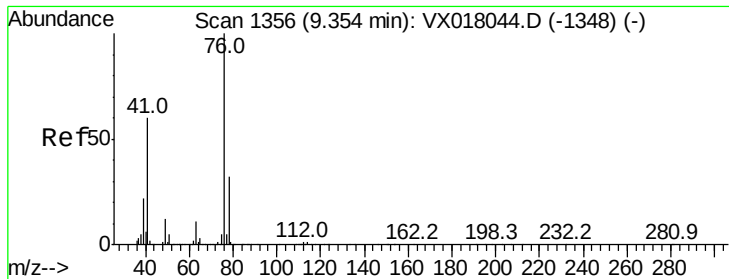
Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Tgt Ion: 75 Resp: 50178

Ion	Ratio	Lower	Upper
75	100		
77	0.1	25.8	38.8#
39	30.1	38.8	58.2#





#57

1,3-Dichloropropane

Concen: 0.926 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

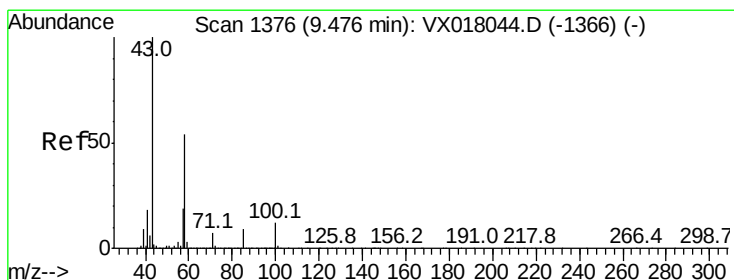
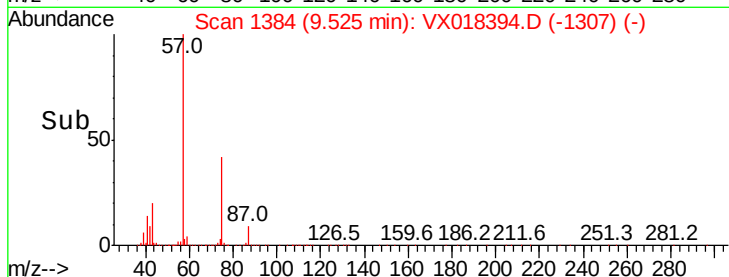
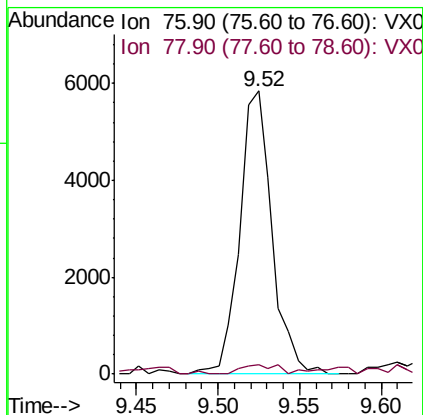
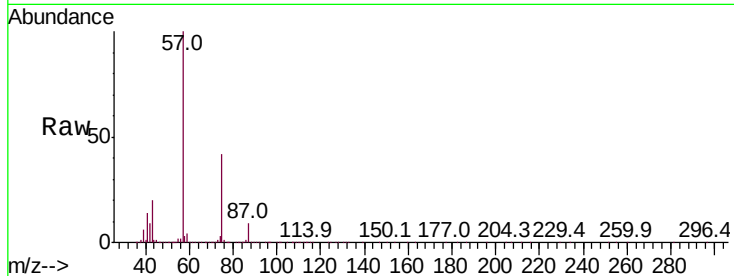
ClientSampleId :

Tot Ion: 76 Resp: 8063

Ion Ratio Lower Upper

76 100

78 4.3 25.8 38.6#



#59

2-Hexanone

Concen: 18.425 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018394.D

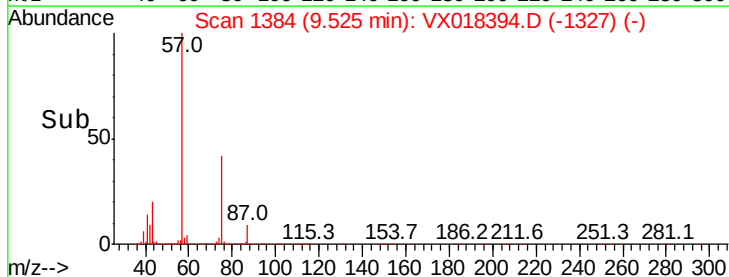
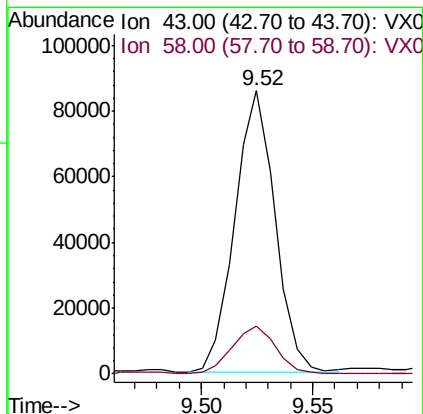
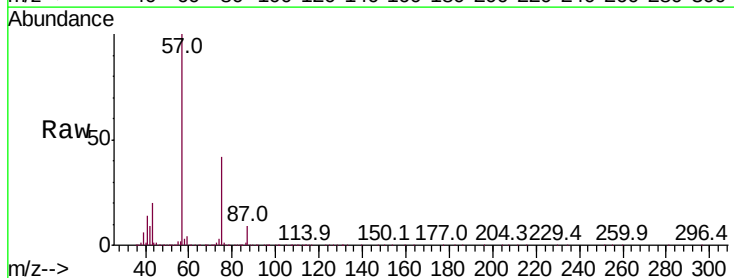
Acq: 14 Sep 2020 19:15

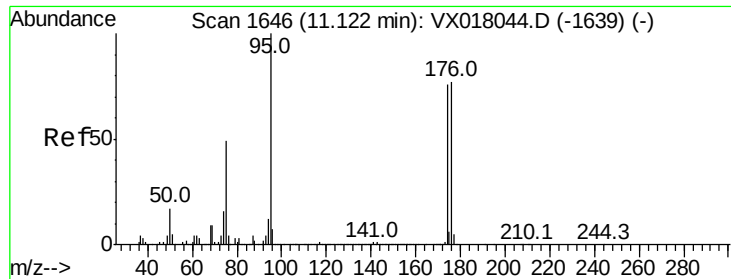
Tgt Ion: 43 Resp: 107816

Ion Ratio Lower Upper

43 100

58 18.3 26.6 79.7#





#62

4-Bromofluorobenzene

Concen: 47.651 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

ClientSampleId :

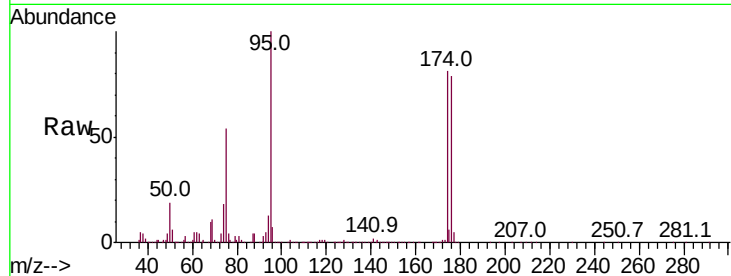
Tot Ion: 95 Resp: 342417

Ion Ratio Lower Upper

95 100

174 81.0 0.0 160.2

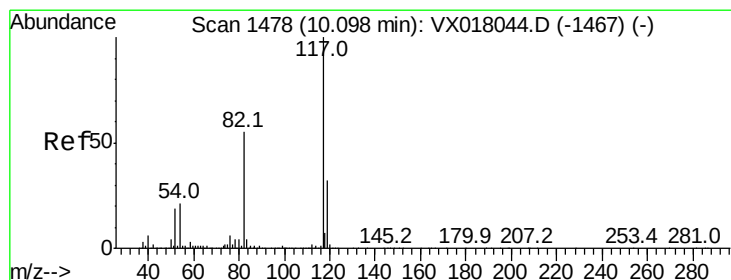
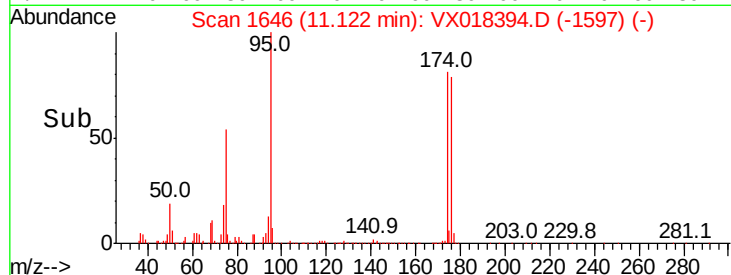
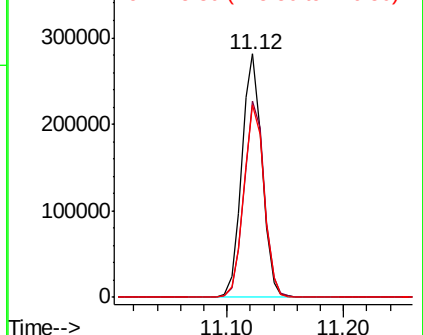
176 79.8 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

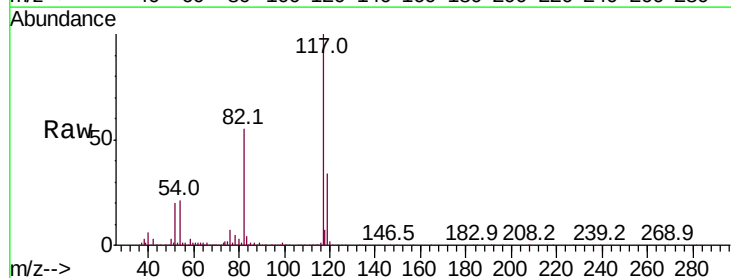
Tgt Ion: 117 Resp: 716970

Ion Ratio Lower Upper

117 100

82 54.8 44.2 66.2

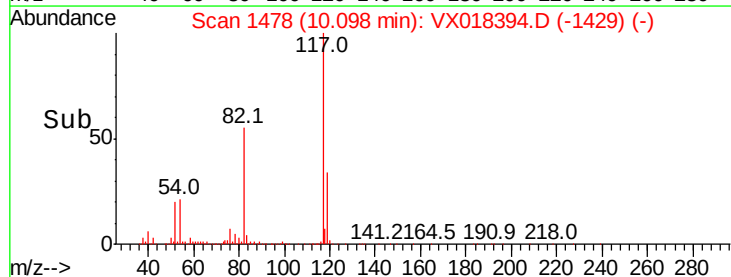
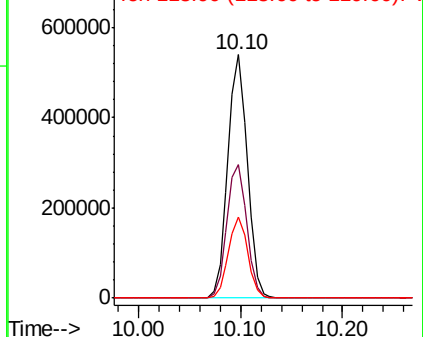
119 33.6 25.7 38.5

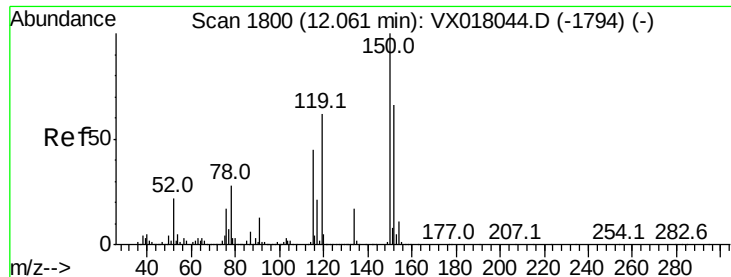


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

ClientSampleId :

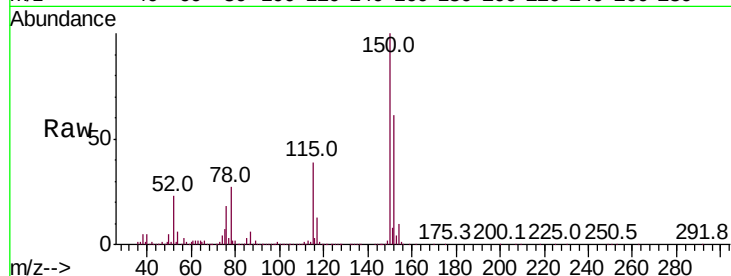
Tot Ion:152 Resp: 337416

Ion Ratio Lower Upper

152 100

115 61.2 41.5 124.5

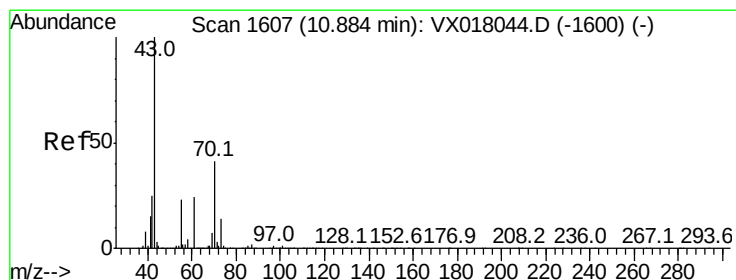
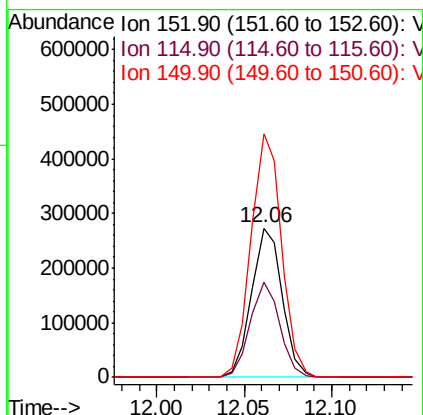
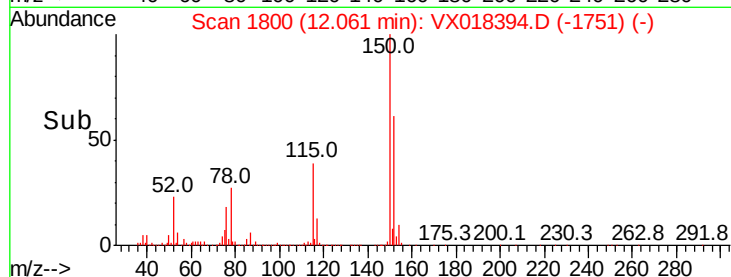
150 162.1 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.241 ug/l

RT: 10.85 min Scan# 1602

Delta R.T. -0.03 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Tgt Ion: 43 Resp: 2549

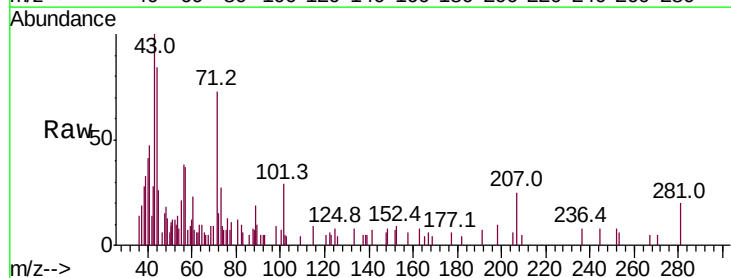
Ion Ratio Lower Upper

43 100

70 5.9 32.3 48.5#

55 12.4 18.2 27.2#

61 0.0 18.9 28.3#

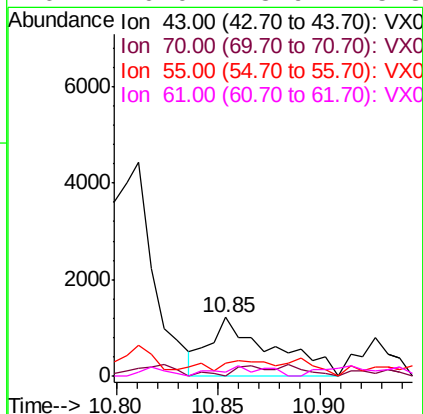
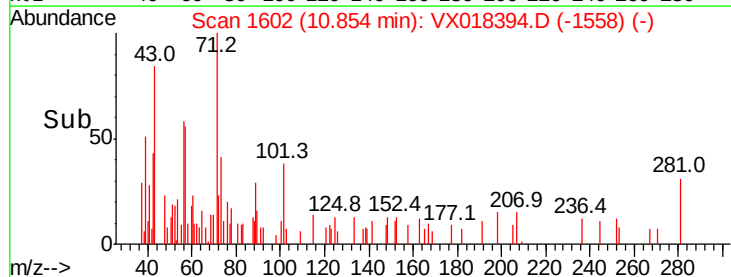


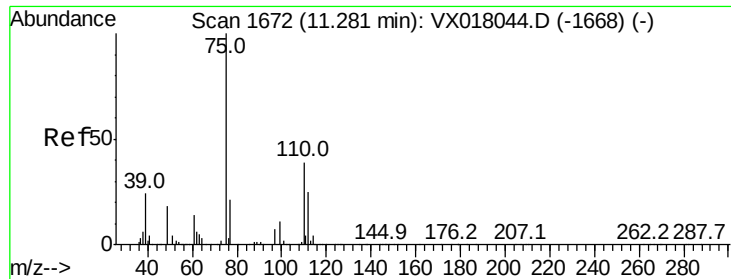
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.349 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Instrument :

MSVOA_X

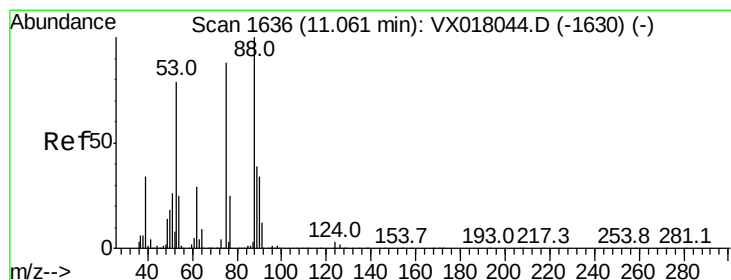
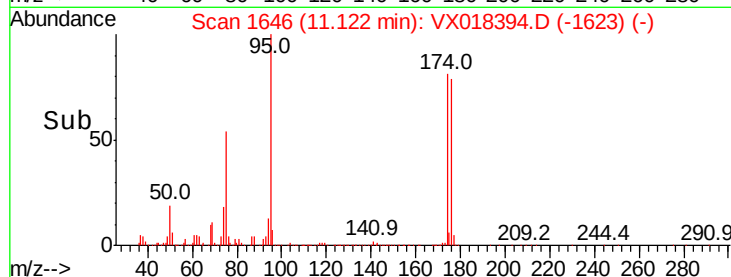
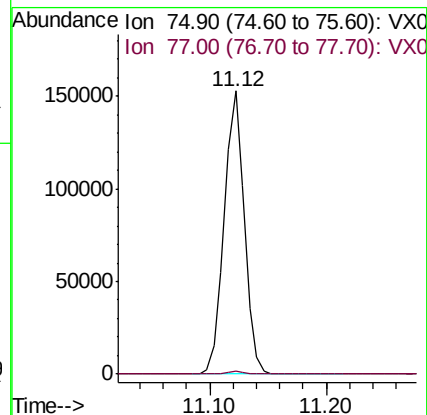
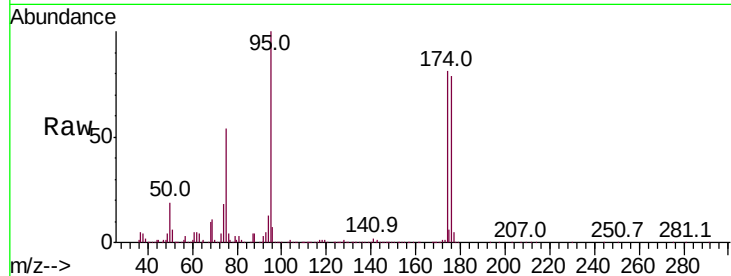
ClientSampleId :

Tot Ion: 75 Resp: 182760

Ion Ratio Lower Upper

75 100

77 1.2 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.762 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018394.D

Acq: 14 Sep 2020 19:15

Tgt Ion: 75 Resp: 182760

Ion Ratio Lower Upper

75 100

53 0.6 74.7 112.1#

89 0.0 36.6 54.8#

