

Data File : VX017238.D
Acq On : 08 Jul 2020 05:31
Operator : JC/SP
Sample : L3232-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 52 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
1005-MW-03A

Quant Time: Jul 08 06:14:07 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	250938	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	421887	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	439558	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	234400	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	167229	54.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.12%	
35) Dibromofluoromethane	5.47	113	145120	54.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.76%	
50) Toluene-d8	8.70	98	516311	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
62) 4-Bromofluorobenzene	11.12	95	211168	54.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.48%	

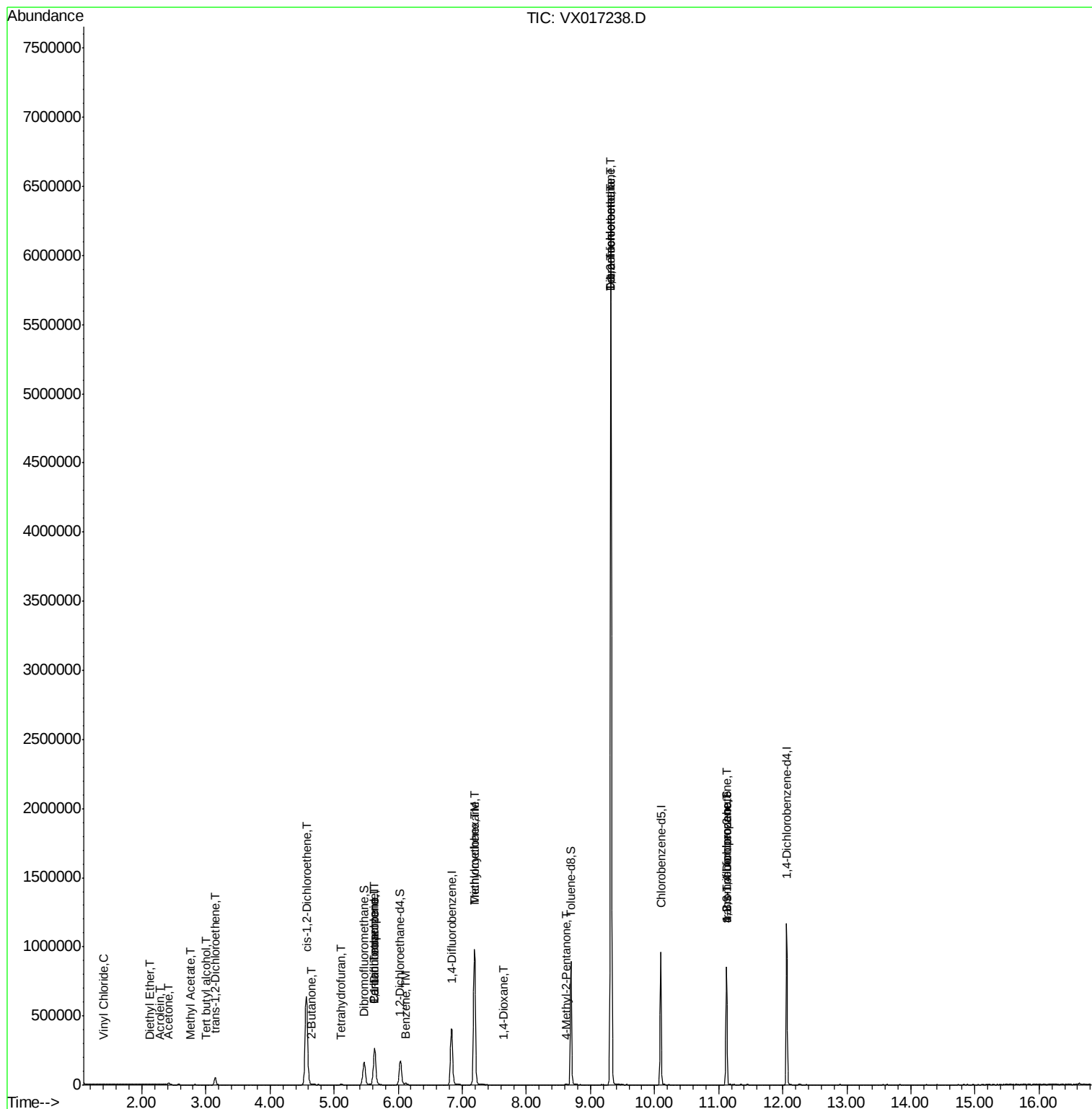
Target Compounds						Qvalue
4) Vinyl Chloride	1.39	62	780	0.286	ug/l #	58
8) Diethyl Ether	2.12	74	98	0.437	ug/l	80
11) Tert butyl alcohol	3.01	59	689	1.167	ug/l #	73
13) Acrolein	2.27	56	211	0.598	ug/l #	1
16) Acetone	2.42	43	13547	11.706	ug/l	93
18) Methyl Acetate	2.75	43	722	0.239	ug/l #	68
20) Methylene Chloride	2.83	84	528	Below Cal	#	76
21) trans-1,2-Dichloroethene	3.15	96	22549	8.184	ug/l	92
25) 2-Butanone	4.65	43	4319	2.240	ug/l #	55
27) cis-1,2-Dichloroethene	4.57	96	421724	135.092	ug/l	89
29) Tetrahydrofuran	5.11	42	2003	1.572	ug/l	91
36) 1,1-Dichloropropene	5.63	75	18786	4.711	ug/l #	51
38) Carbon Tetrachloride	5.64	117	25148	5.726	ug/l #	19
39) Methylcyclohexane	7.19	83	4580	1.032	ug/l #	1
40) Benzene	6.12	78	9814	0.838	ug/l	97
44) Trichloroethene	7.19	130	388665	120.660	ug/l	96
49) 1,4-Dioxane	7.64	88	19	0.263	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	3244	0.810	ug/l	92
55) 1,1,2-Trichloroethane	9.32	97	10615	3.552	ug/l #	1
60) Dibromochloromethane	9.32	129	1171660	337.555	ug/l #	11
64) Tetrachloroethene	9.32	164	1256271	354.127	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	105103	22.802	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	105103	59.049	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	473	Below Cal	#	1

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

Instrument :

MSVOA_X

ClientSampleId :

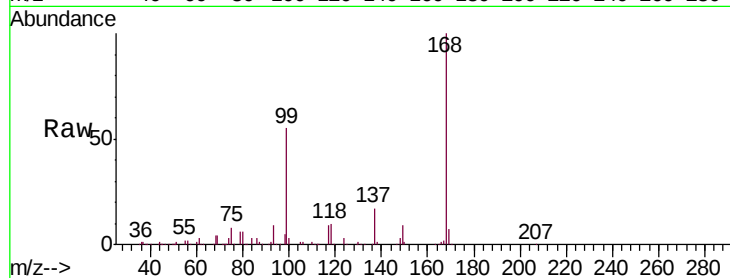
1005-MW-03A

Tgt Ion: 168 Resp: 250938

Ion Ratio Lower Upper

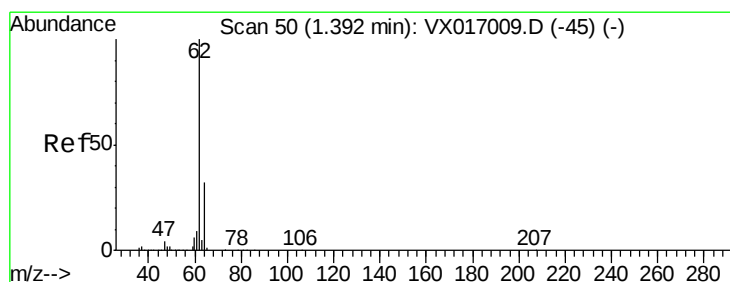
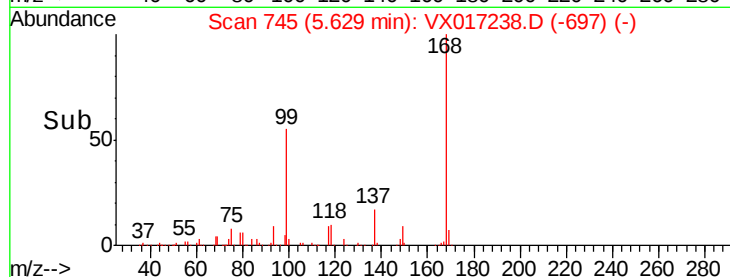
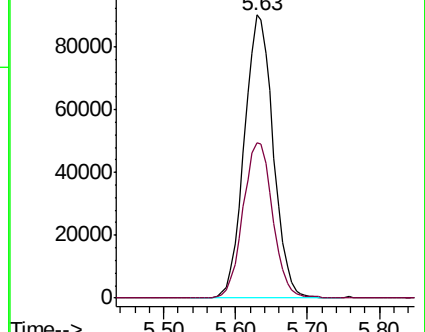
168 100

99 55.0 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.286 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX017238.D

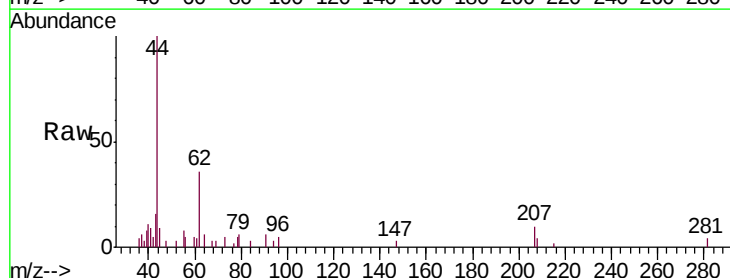
Acq: 08 Jul 2020 05:31

Tgt Ion: 62 Resp: 780

Ion Ratio Lower Upper

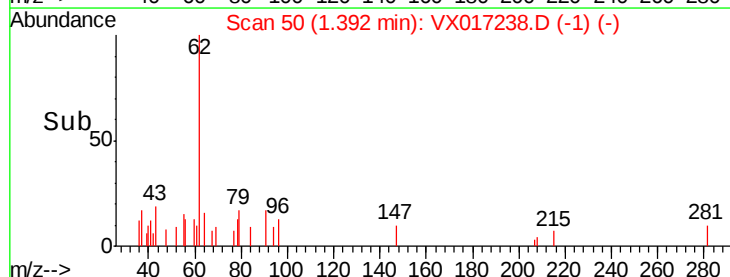
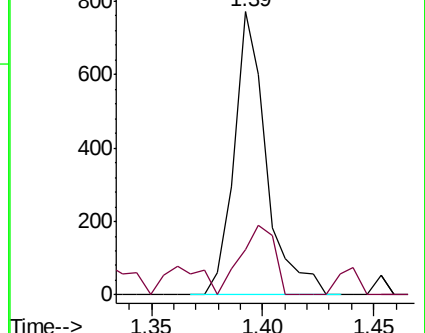
62 100

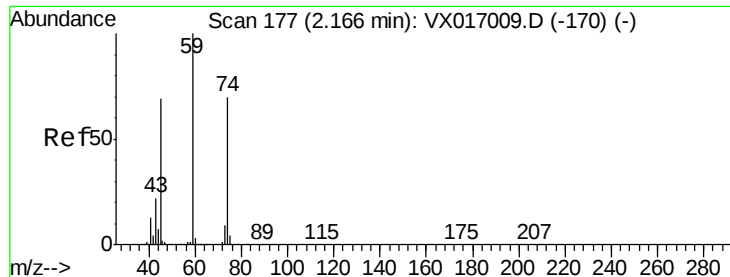
64 8.8 25.9 38.9#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#8

Diethyl Ether

Concen: 0.437 ug/l

RT: 2.12 min Scan# 169

Delta R.T. -0.05 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

Instrument :

MSVOA_X

ClientSampleId :

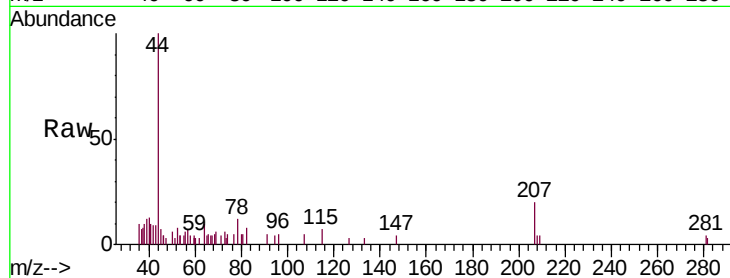
1005-MW-03A

Tgt Ion: 74 Resp: 98

Ion Ratio Lower Upper

74 100

45 79.6 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

300

200

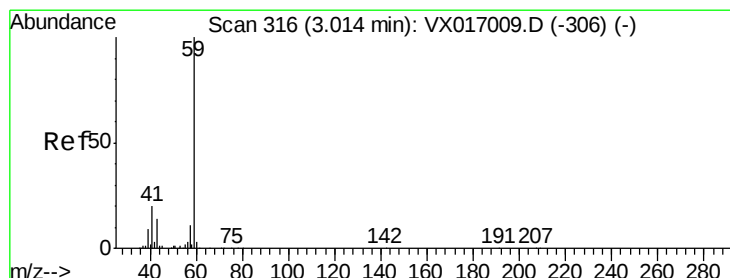
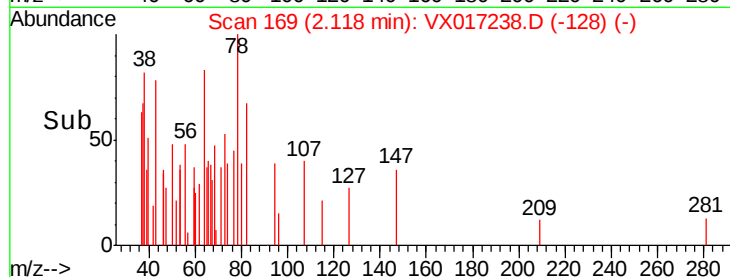
100

0

2.10 2.11 2.12 2.13 2.14

2.12

Time-->



#11

Tert butyl alcohol

Concen: 1.167 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX017238.D

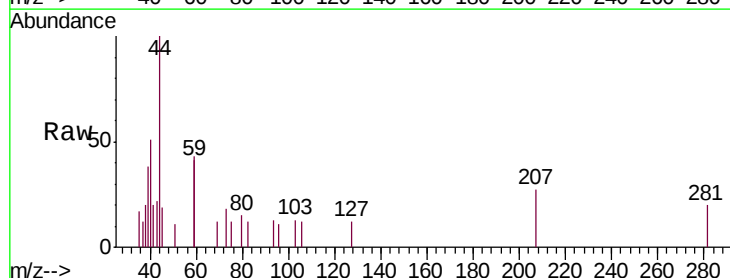
Acq: 08 Jul 2020 05:31

Tgt Ion: 59 Resp: 689

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

400

300

200

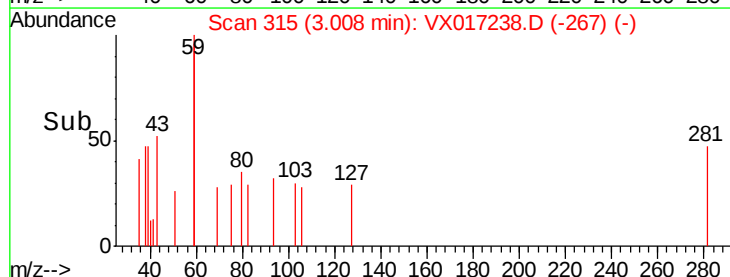
100

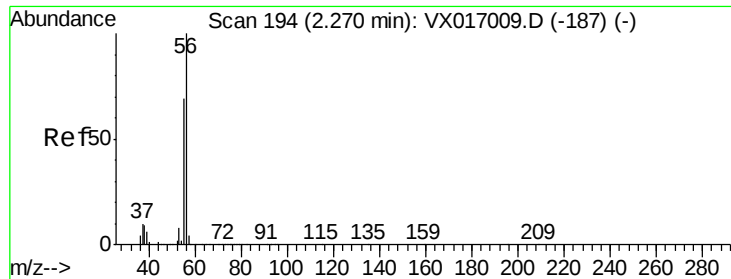
0

2.95 3.00 3.05

3.01

Time-->

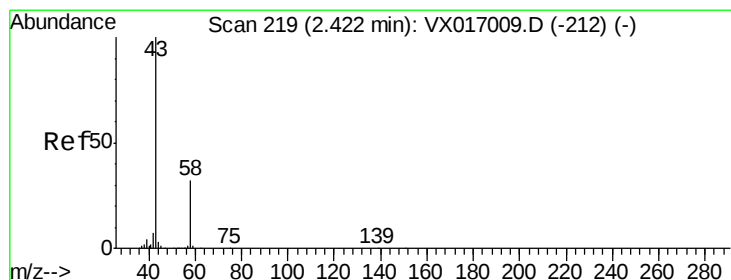
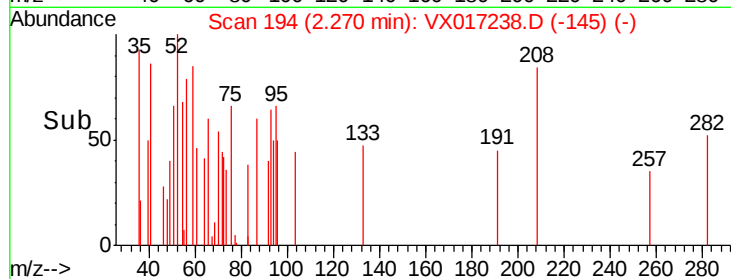
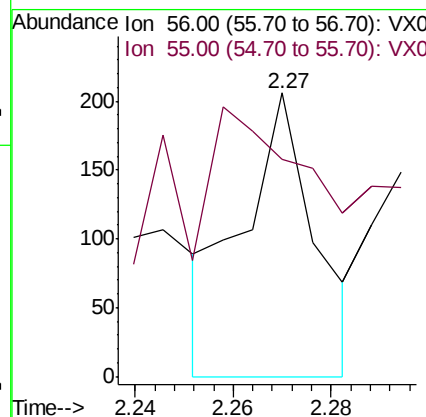
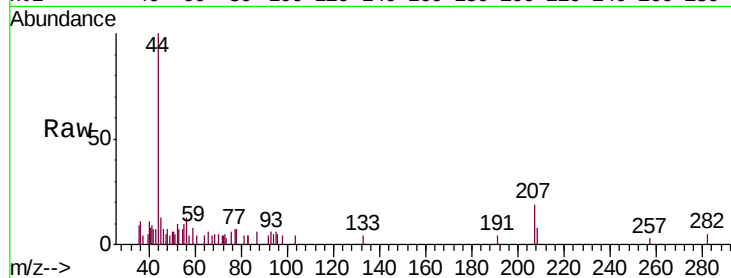




#13
Acrolein
Concen: 0.598 ug/l
RT: 2.27 min Scan# 194
Delta R.T. 0.00 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

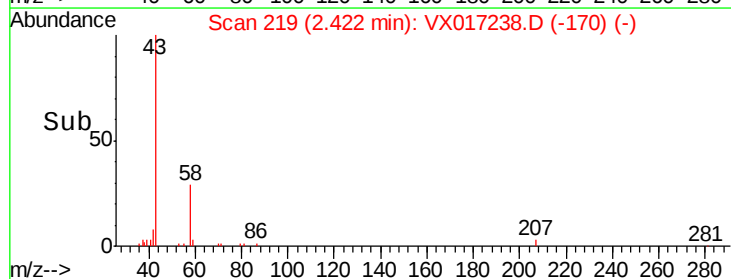
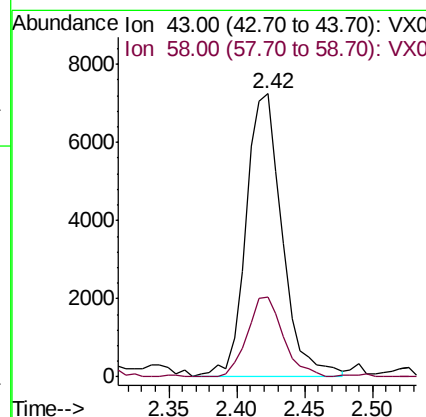
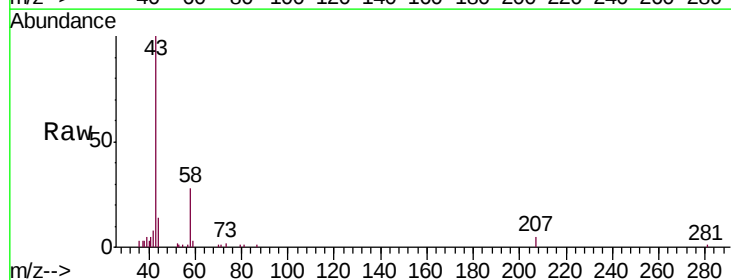
Instrument :
MSVOA_X
ClientSampleId :
1005-MW-03A

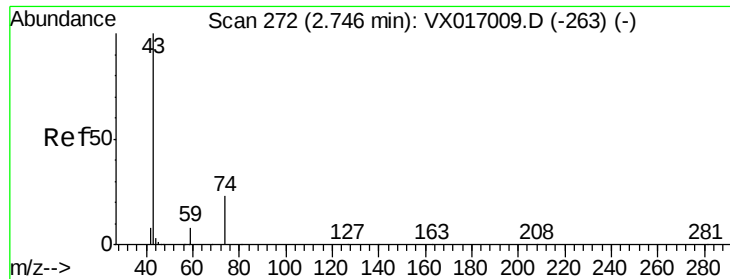
Tgt Ion: 56 Resp: 211
Ion Ratio Lower Upper
56 100
55 167.3 55.7 83.5#



#16
Acetone
Concen: 11.706 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.00 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

Tgt Ion: 43 Resp: 13547
Ion Ratio Lower Upper
43 100
58 28.0 25.7 38.5

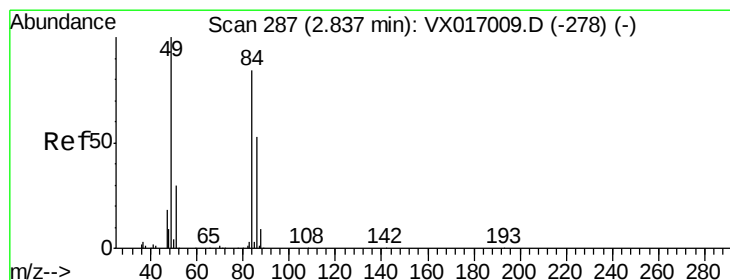
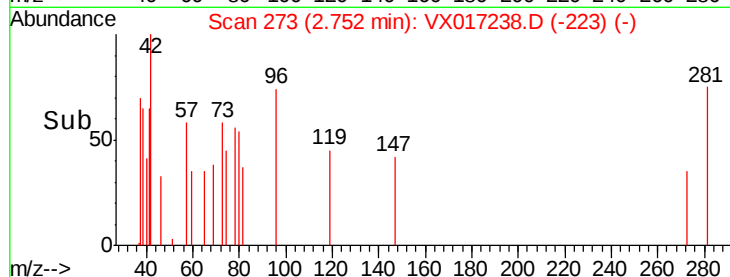
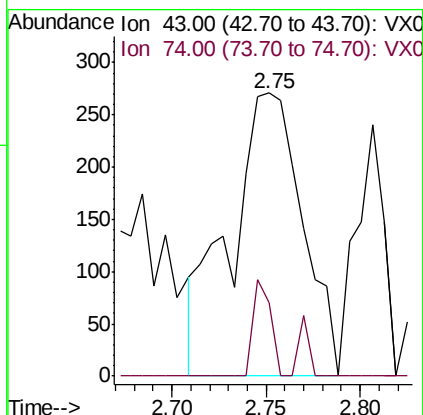
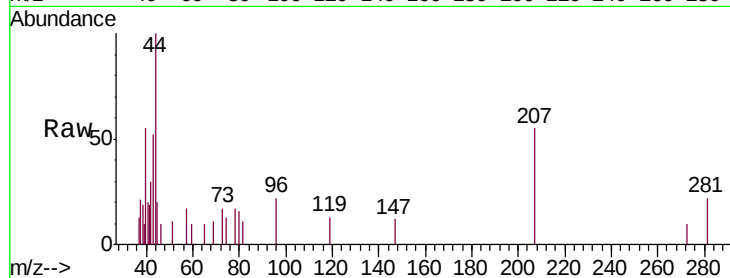




#18
Methyl Acetate
Concen: 0.239 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

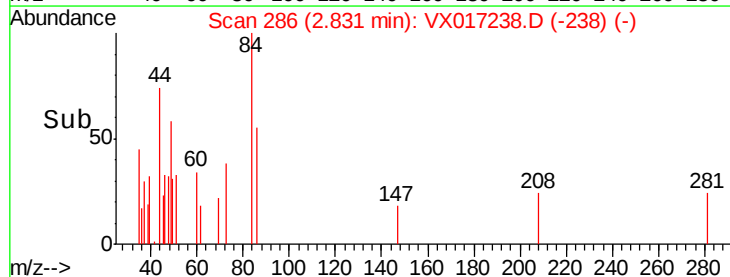
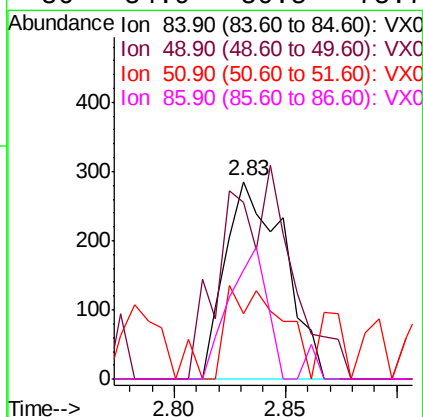
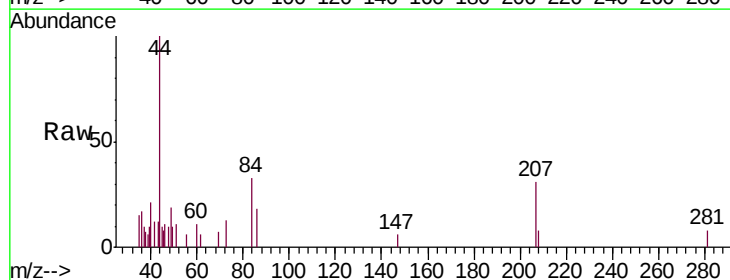
Instrument :
MSVOA_X
ClientSampleId :
1005-MW-03A

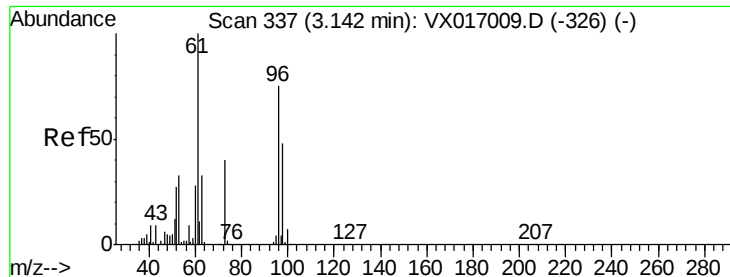
Tgt Ion: 43 Resp: 722
Ion Ratio Lower Upper
43 100
74 8.3 19.3 28.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

Tgt Ion: 84 Resp: 528
Ion Ratio Lower Upper
84 100
49 89.2 94.7 142.1#
51 12.6 28.6 42.8#
86 54.9 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 8.184 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

Instrument :

MSVOA_X

ClientSampleId :

1005-MW-03A

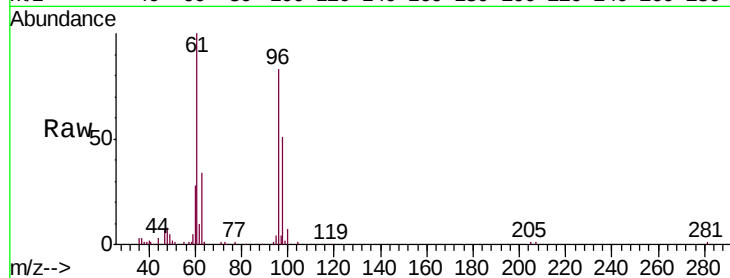
Tgt Ion: 96 Resp: 22549

Ion Ratio Lower Upper

96 100

61 121.1 107.0 160.6

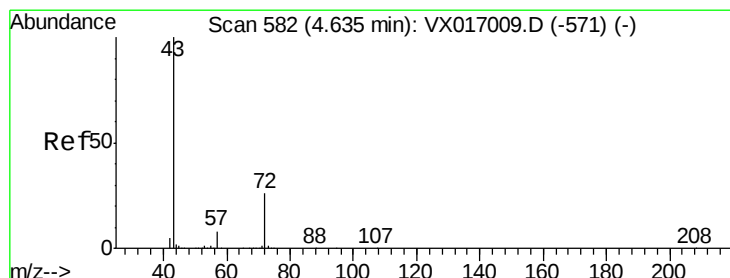
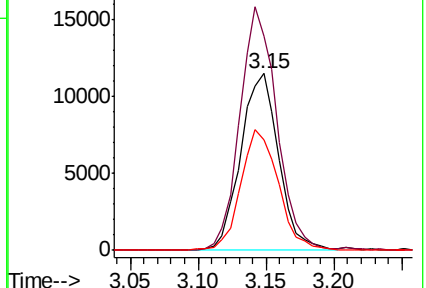
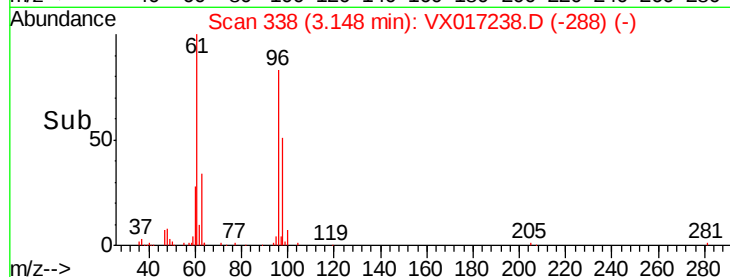
98 62.3 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 2.240 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017238.D

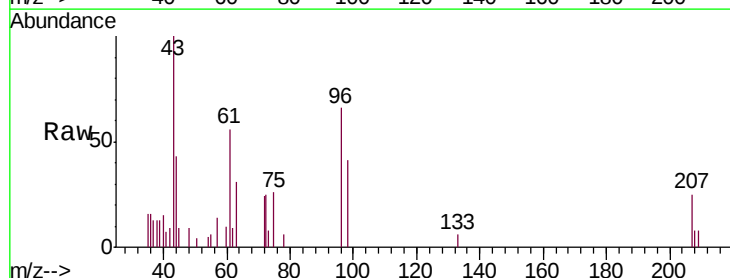
Acq: 08 Jul 2020 05:31

Tgt Ion: 43 Resp: 4319

Ion Ratio Lower Upper

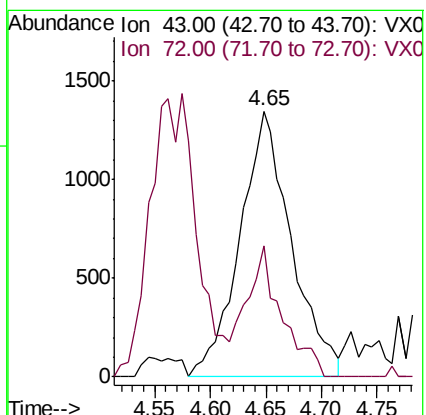
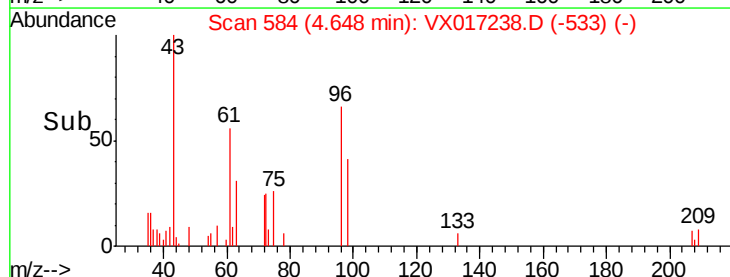
43 100

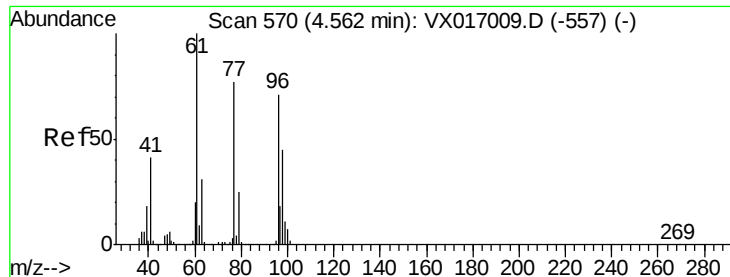
72 49.1 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



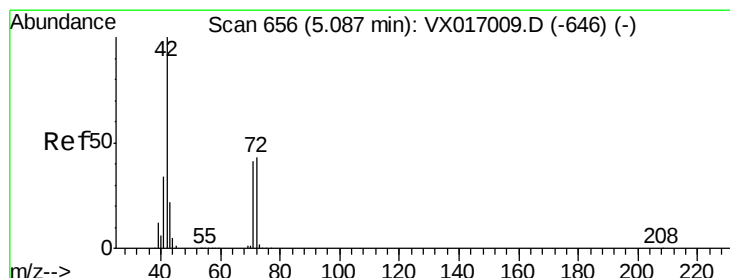
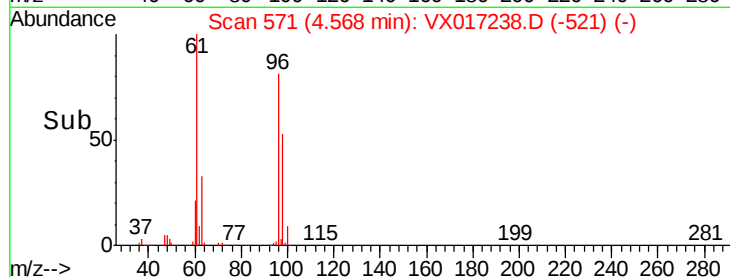
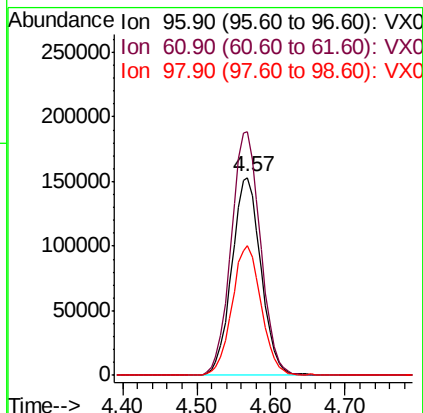
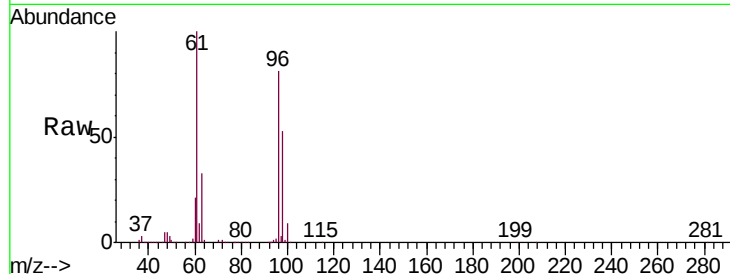


#27

cis-1,2-Dichloroethene
Concen: 135.092 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

Instrument :
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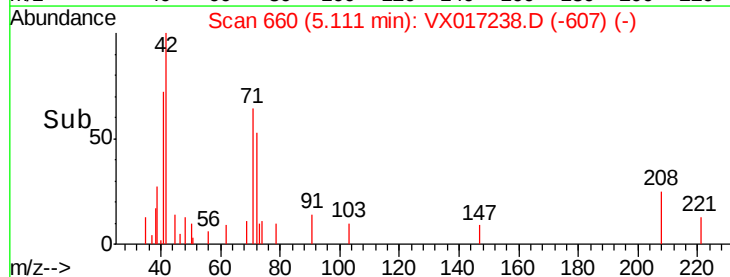
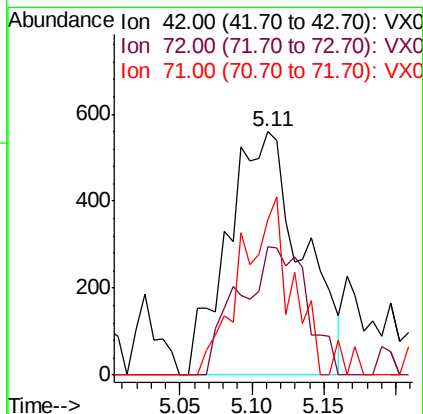
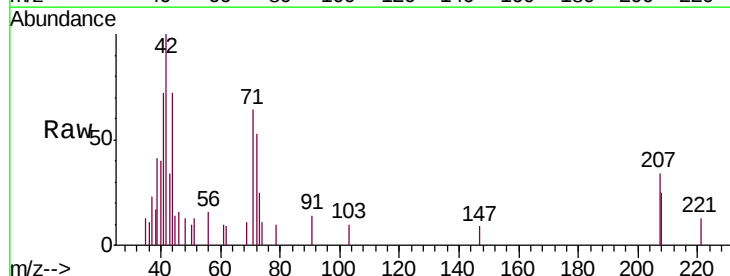
Tgt Ion	Ratio	Lower	Upper
96	100		
61	123.8	0.0	282.8
98	65.3	0.0	127.6

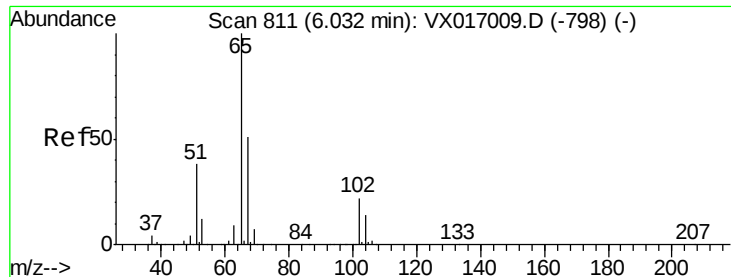


#29

Tetrahydrofuran
Concen: 1.572 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

Tgt Ion	Ratio	Lower	Upper
42	100		
72	48.3	35.3	52.9
71	49.2	33.1	49.7

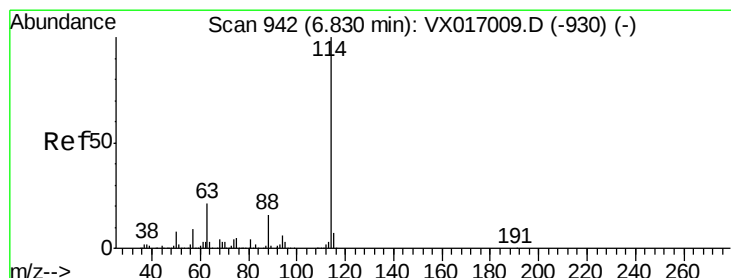
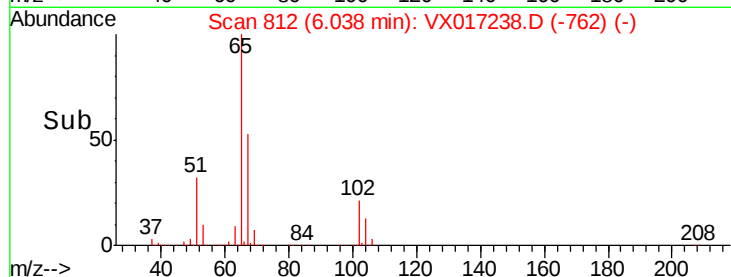
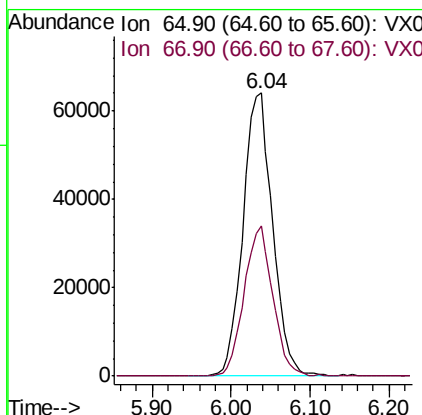
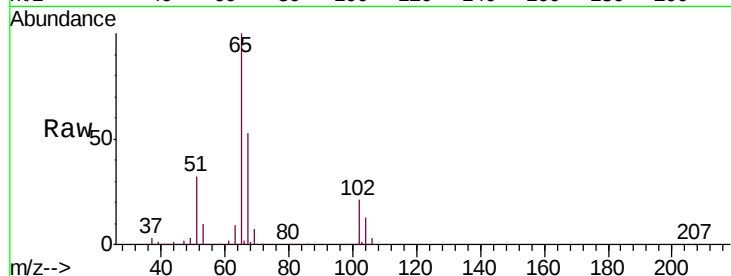




#33
 1,2-Dichloroethane-d4
 Concen: 54.057 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017238.D
 Acq: 08 Jul 2020 05:31

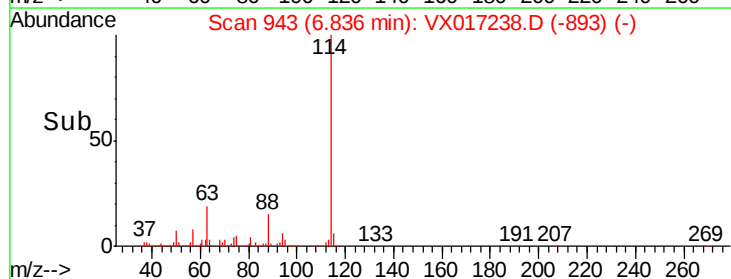
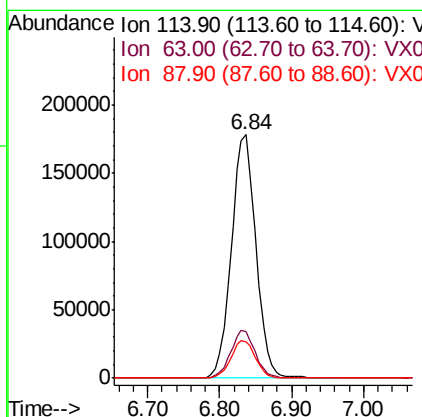
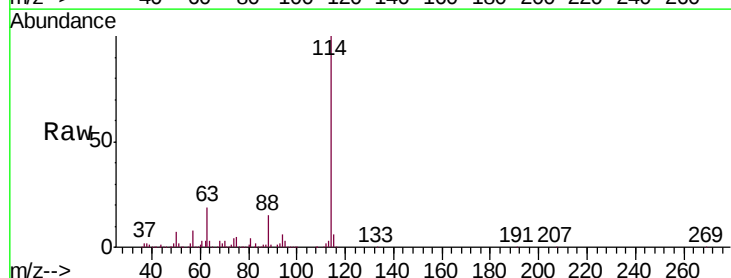
Instrument :
 MSVOA_X
 ClientSampleId :
 1005-MW-03A

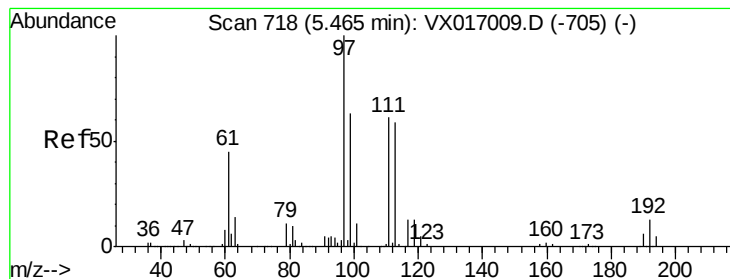
Tgt Ion: 65 Resp: 167229
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017238.D
 Acq: 08 Jul 2020 05:31

Tgt Ion: 114 Resp: 421887
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 41.4
 88 15.0 0.0 32.4





#35

Dibromofluoromethane

Concen: 54.378 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

Instrument :

MSVOA_X

ClientSampleId :

1005-MW-03A

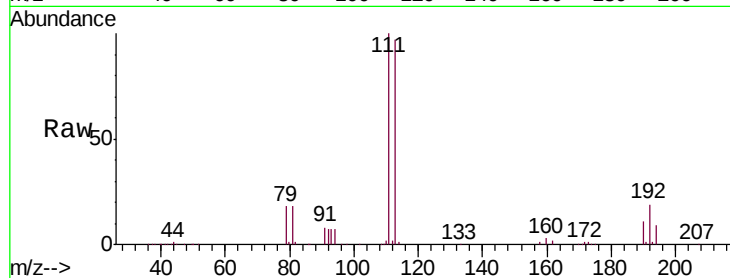
Tgt Ion:113 Resp: 145120

Ion Ratio Lower Upper

113 100

111 103.1 81.9 122.9

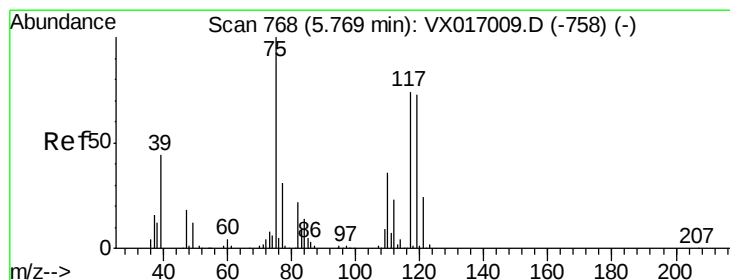
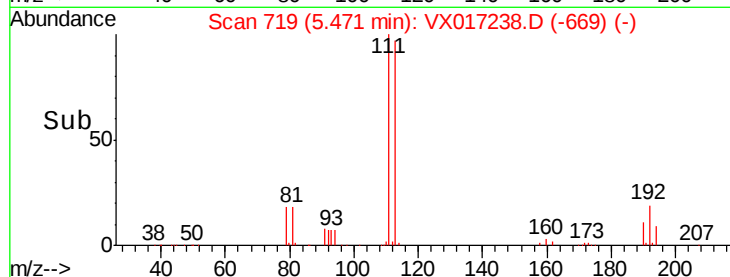
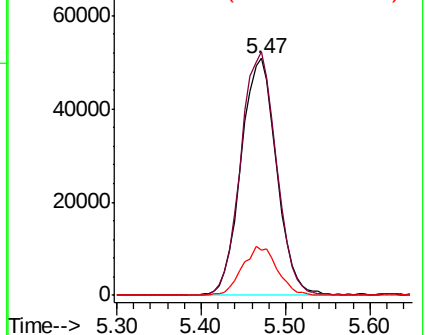
192 20.3 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.711 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

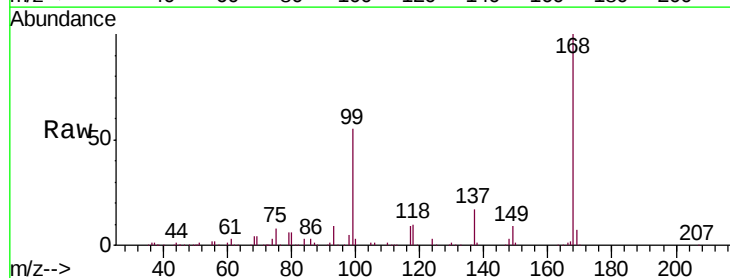
Tgt Ion: 75 Resp: 18786

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.1#

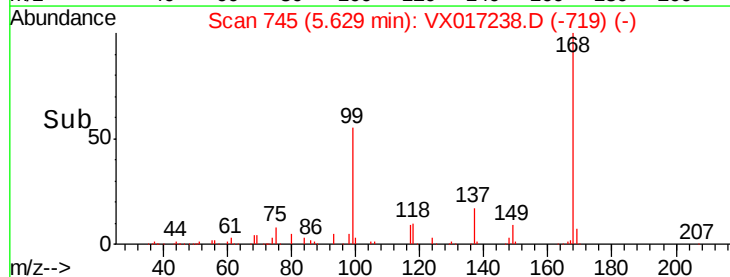
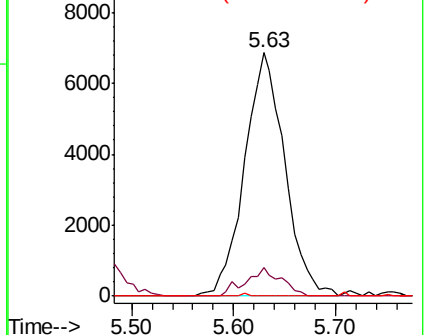
77 0.2 24.6 37.0#

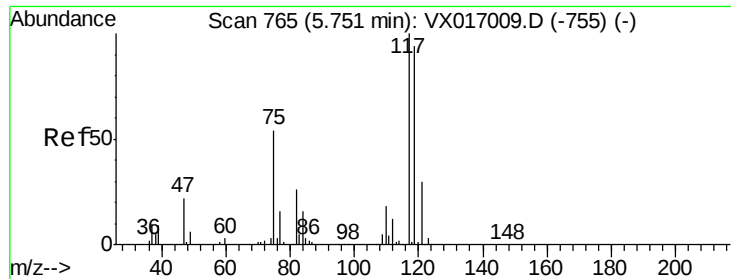


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.726 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

Instrument :

MSVOA_X

ClientSampleId :

1005-MW-03A

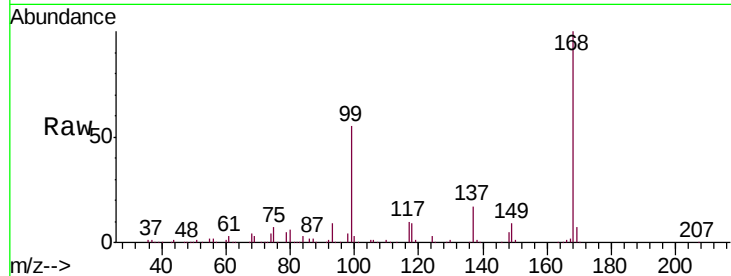
Tgt Ion:117 Resp: 25148

Ion Ratio Lower Upper

117 100

119 7.6 75.4 113.0#

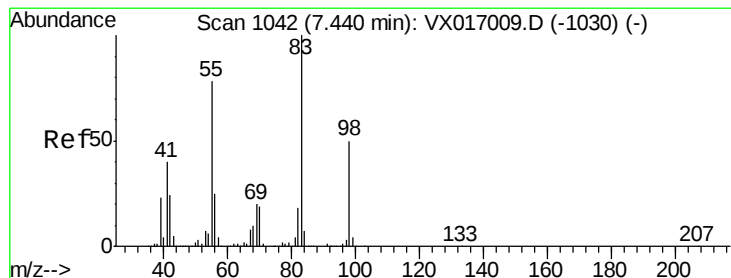
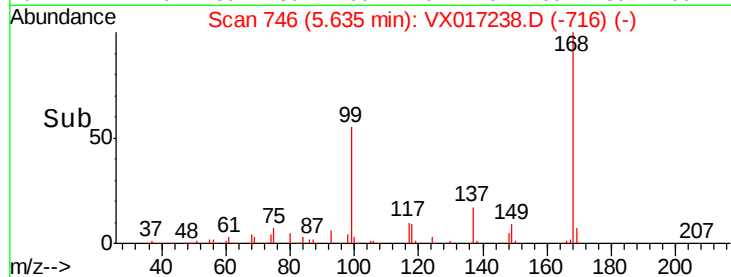
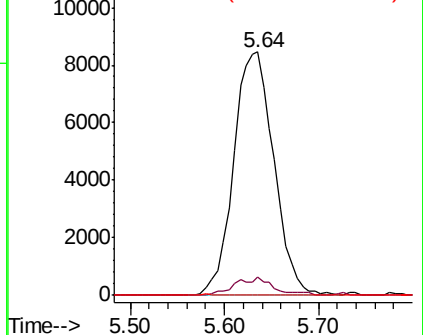
121 0.0 23.8 35.6#



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



#39

Methylcyclohexane

Concen: 1.032 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.25 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

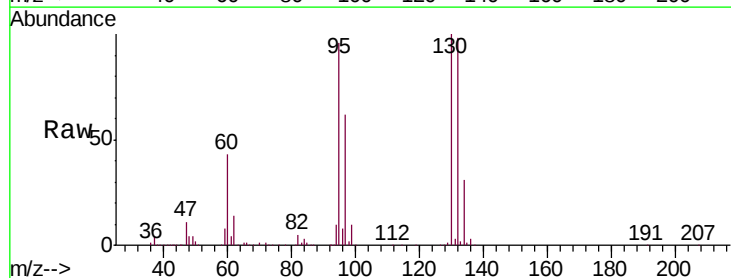
Tgt Ion: 83 Resp: 4580

Ion Ratio Lower Upper

83 100

55 0.0 62.5 93.7#

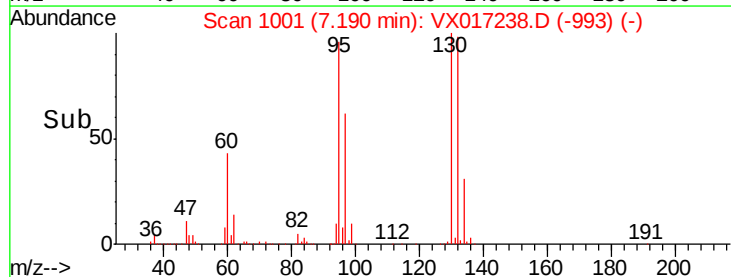
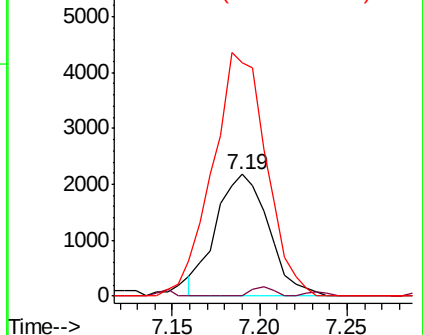
98 191.9 40.1 60.1#

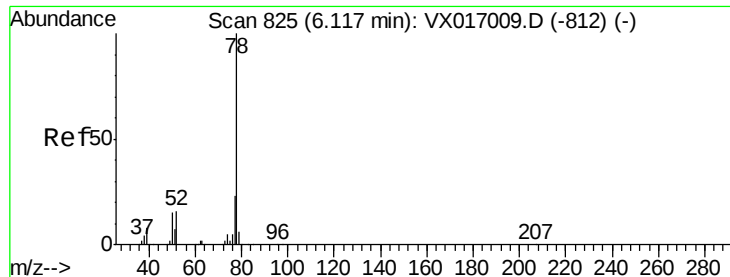


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 0.838 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.00 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

Instrument :

MSVOA_X

ClientSampleId :

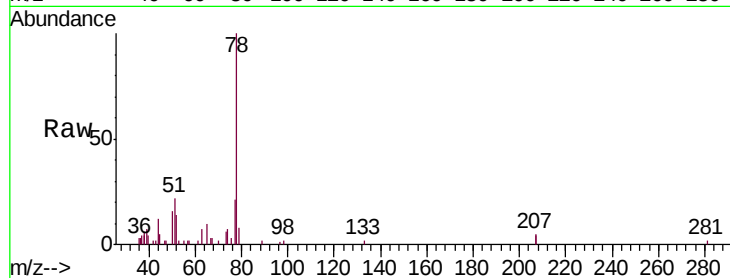
1005-MW-03A

Tgt Ion: 78 Resp: 9814

Ion Ratio Lower Upper

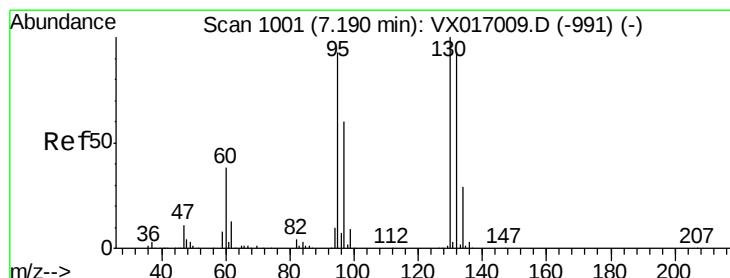
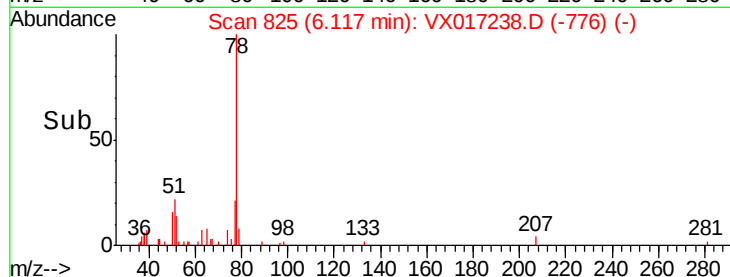
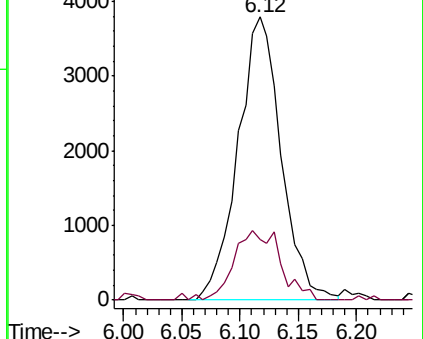
78 100

77 21.5 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: 120.660 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017238.D

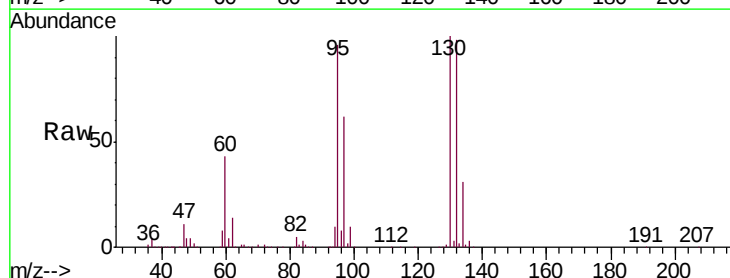
Acq: 08 Jul 2020 05:31

Tgt Ion: 130 Resp: 388665

Ion Ratio Lower Upper

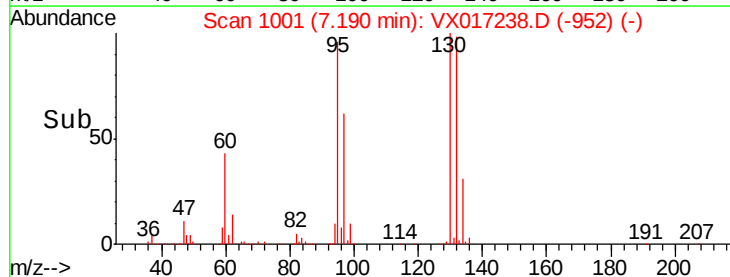
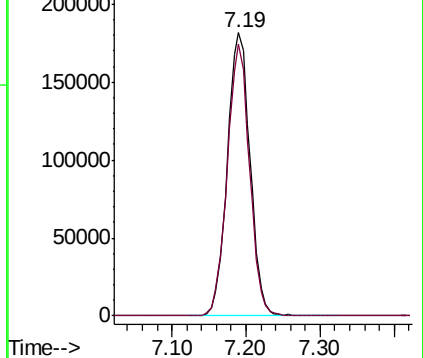
130 100

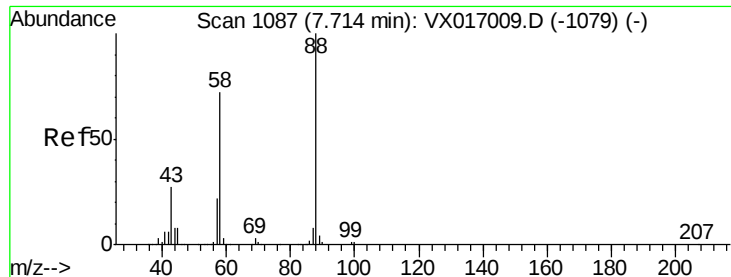
95 96.1 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

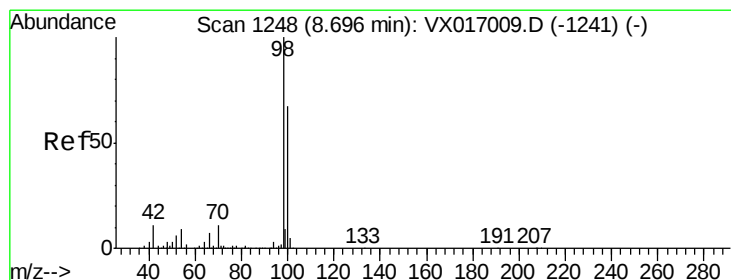
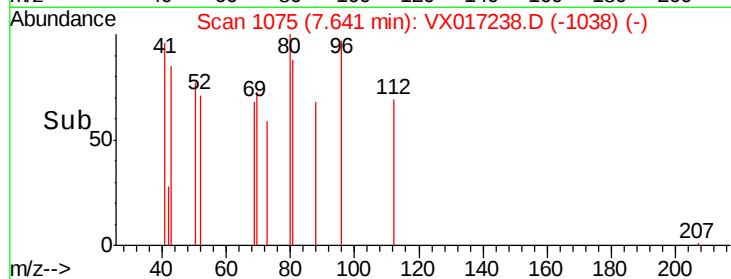
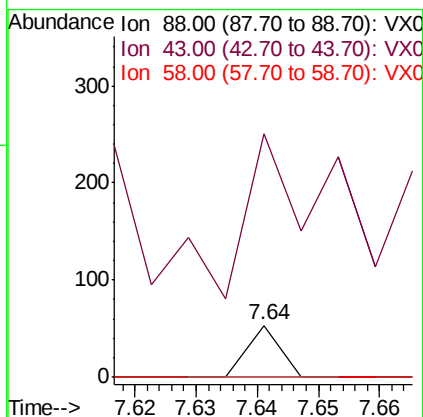
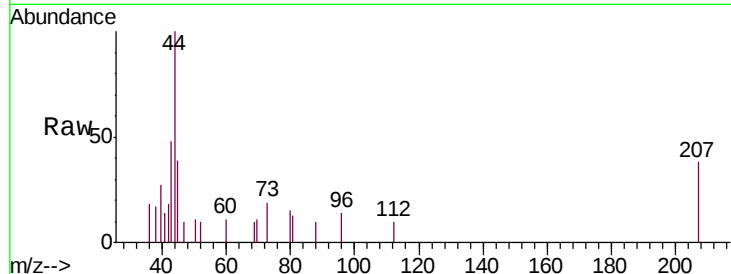




#49
1,4-Dioxane
Concen: 0.263 ug/l
RT: 7.64 min Scan# 1075
Delta R.T. -0.07 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

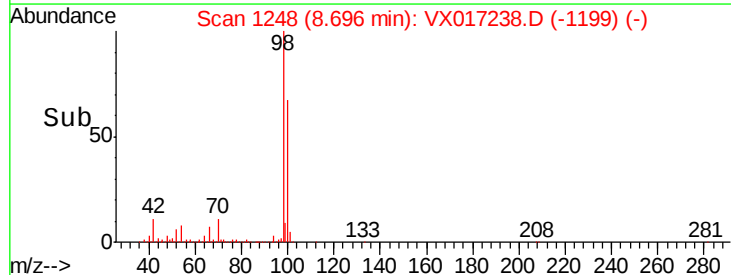
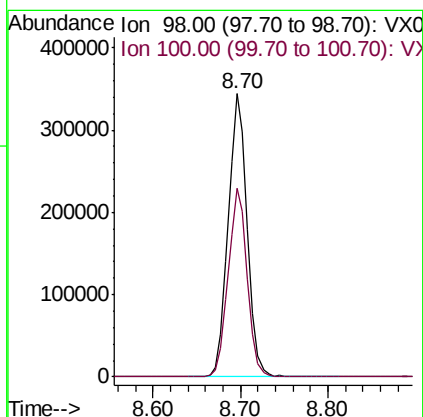
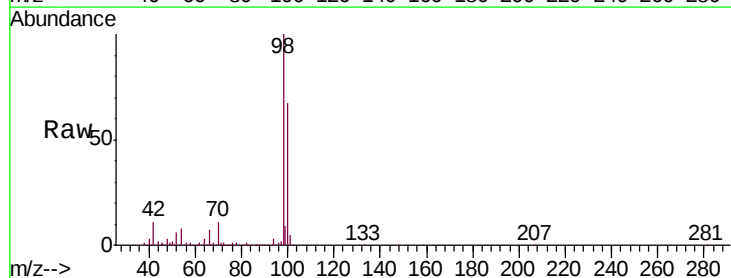
Instrument :
MSVOA_X
ClientSampleId :
1005-MW-03A

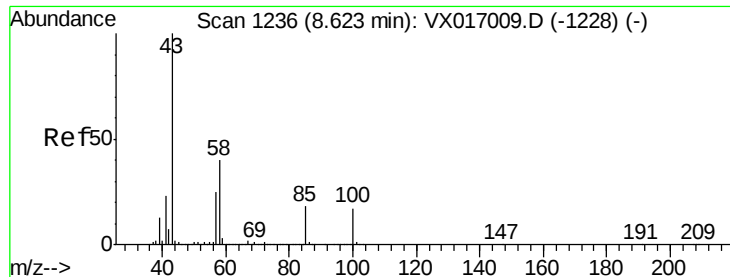
Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 810.5 25.8 38.8#
58 0.0 54.8 82.2#



#50
Toluene-d8
Concen: 52.320 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

Tgt Ion: 98 Resp: 516311
Ion Ratio Lower Upper
98 100
100 66.8 53.8 80.6

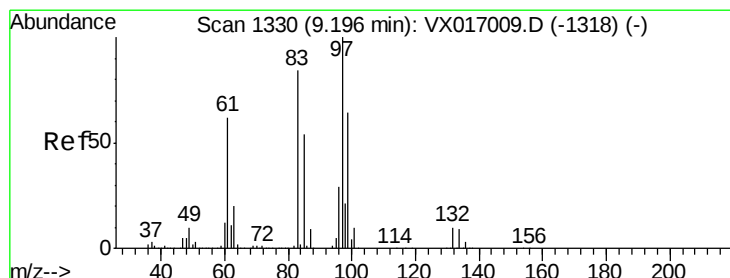
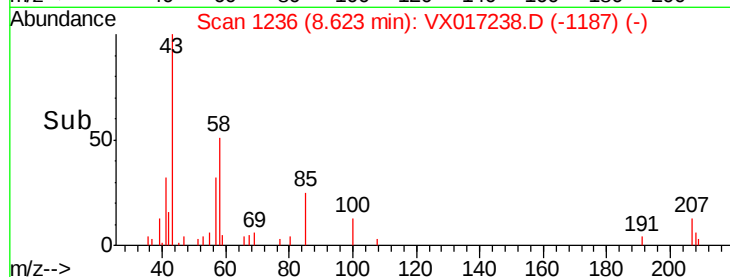
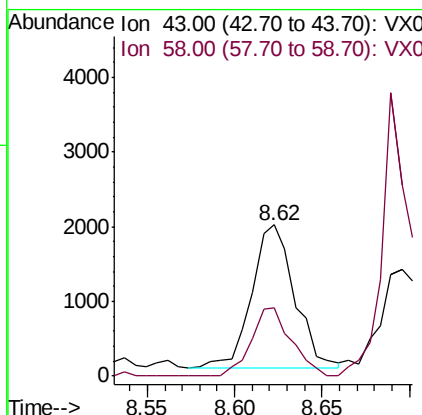
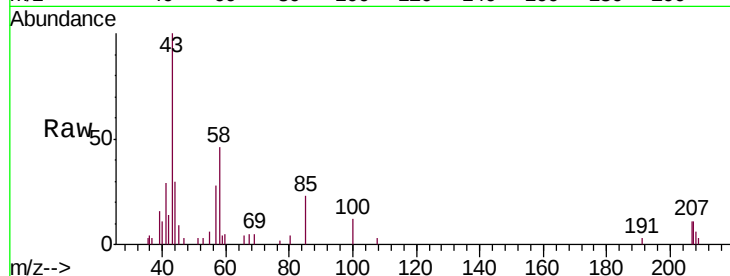




#51
 4-Methyl-2-Pentanone
 Concen: 0.810 ug/l
 RT: 8.62 min Scan# 1236
 Delta R.T. 0.00 min
 Lab File: VX017238.D
 Acq: 08 Jul 2020 05:31

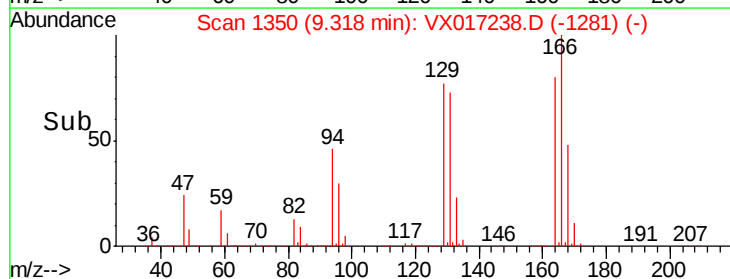
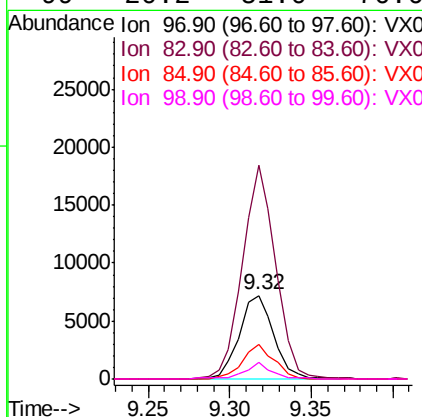
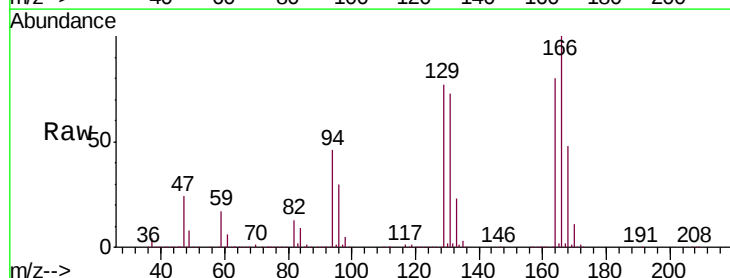
Instrument :
 MSVOA_X
 ClientSampleId :
 1005-MW-03A

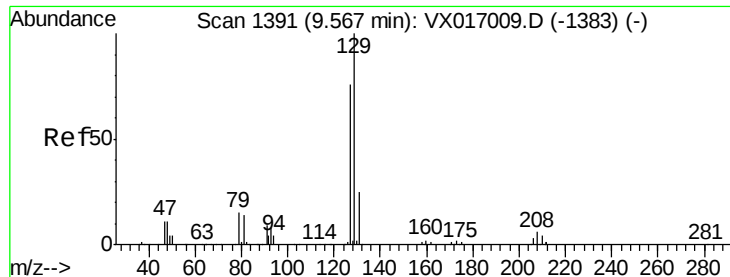
Tgt Ion: 43 Resp: 3244
 Ion Ratio Lower Upper
 43 100
 58 44.9 31.9 47.9



#55
 1,1,2-Trichloroethane
 Concen: 3.552 ug/l
 RT: 9.32 min Scan# 1350
 Delta R.T. 0.12 min
 Lab File: VX017238.D
 Acq: 08 Jul 2020 05:31

Tgt Ion: 97 Resp: 10615
 Ion Ratio Lower Upper
 97 100
 83 255.8 67.0 100.6#
 85 41.9 43.5 65.3#
 99 20.2 51.0 76.6#





#60

Dibromochloromethane

Concen: 337.555 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

Instrument :

MSVOA_X

ClientSampleId :

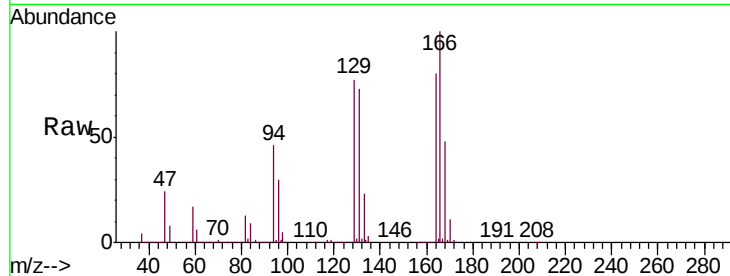
1005-MW-03A

Tgt Ion:129 Resp: 1171660

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

800000

600000

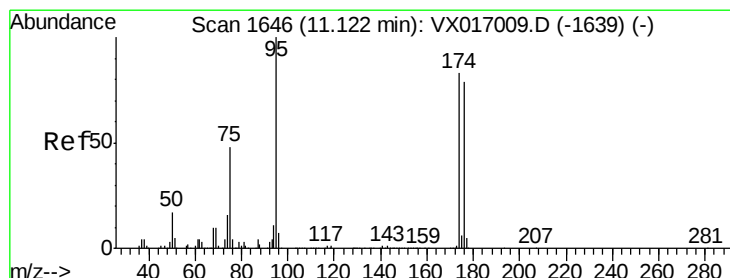
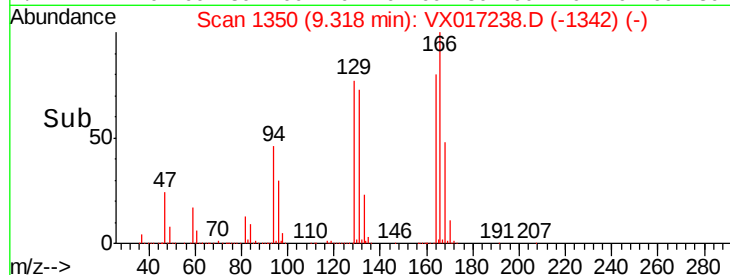
400000

200000

0

9.25 9.30 9.35 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 54.740 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

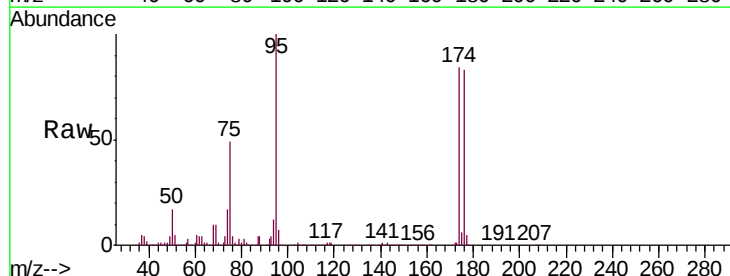
Tgt Ion: 95 Resp: 211168

Ion Ratio Lower Upper

95 100

174 85.2 0.0 164.0

176 81.4 0.0 157.6



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

200000

150000

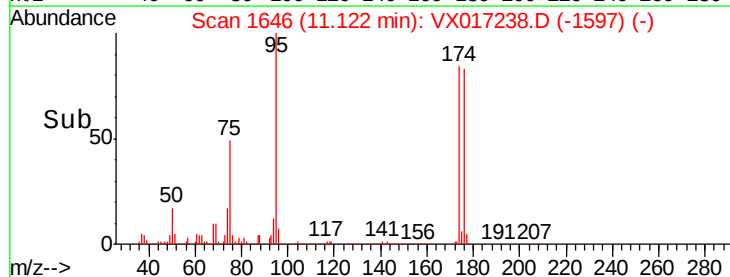
100000

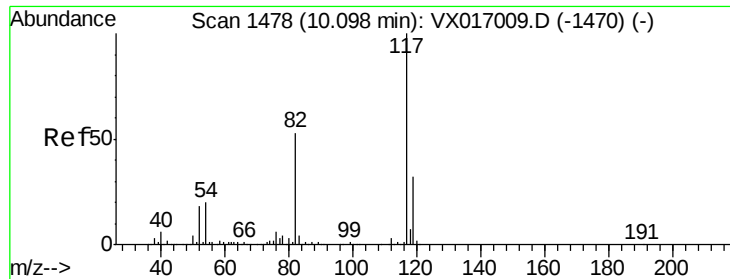
50000

0

11.10 11.12 11.20

Time-->

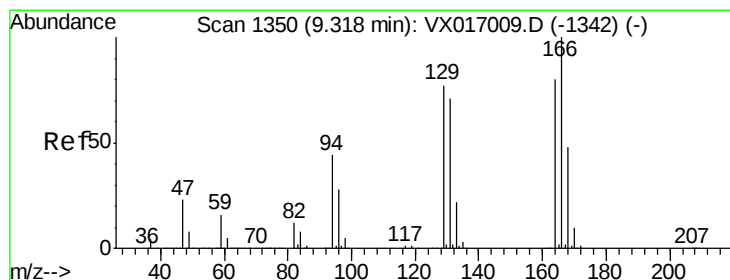
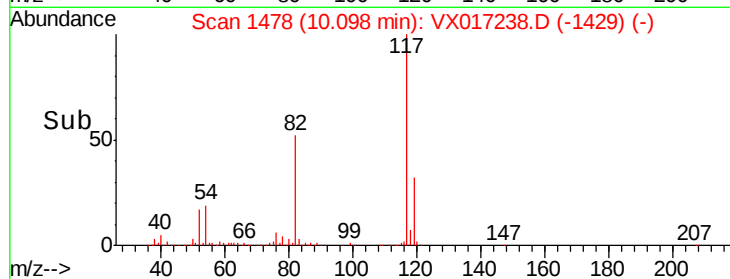
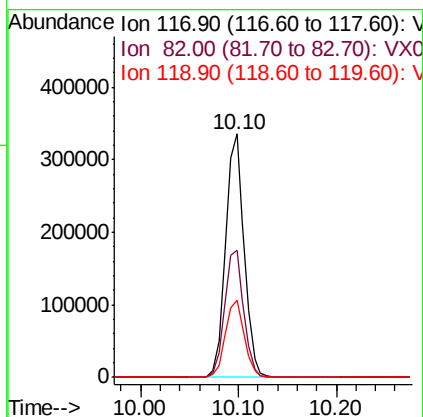
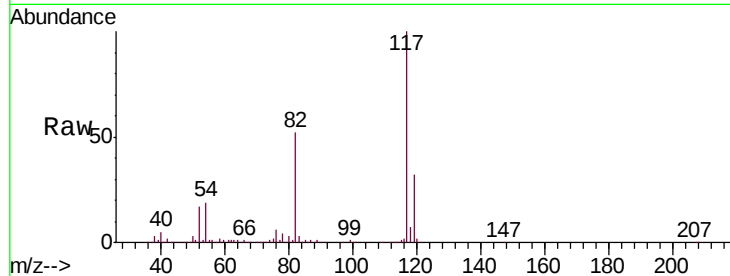




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

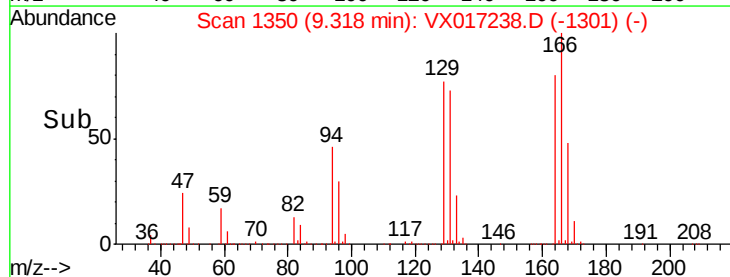
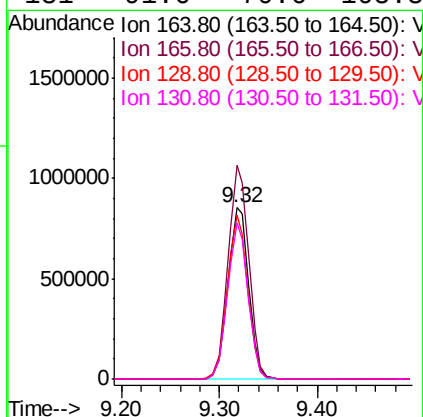
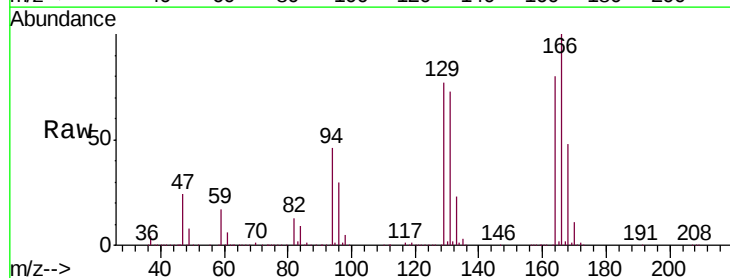
Instrument :
MSVOA_X
ClientSampleId :
1005-MW-03A

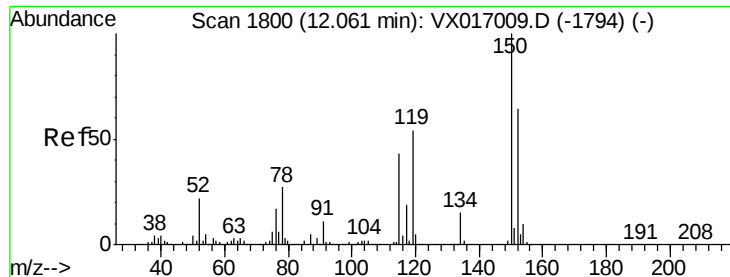
Tgt Ion:117 Resp: 439558
Ion Ratio Lower Upper
117 100
82 52.1 42.6 63.8
119 31.8 25.4 38.2



#64
Tetrachloroethene
Concen: 354.127 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX017238.D
Acq: 08 Jul 2020 05:31

Tgt Ion:164 Resp: 1256271
Ion Ratio Lower Upper
164 100
166 124.8 99.4 149.0
129 95.6 76.3 114.5
131 91.6 70.6 105.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017238.D

Acq: 08 Jul 2020 05:31

Instrument :

MSVOA_X

ClientSampleId :

1005-MW-03A

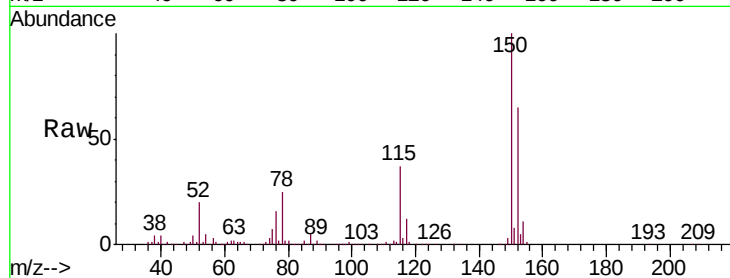
Tgt Ion:152 Resp: 234400

Ion Ratio Lower Upper

152 100

115 56.6 40.9 122.7

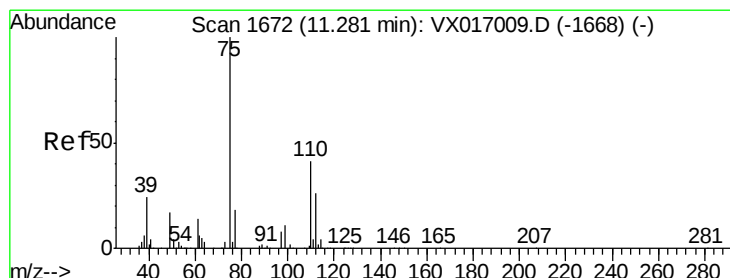
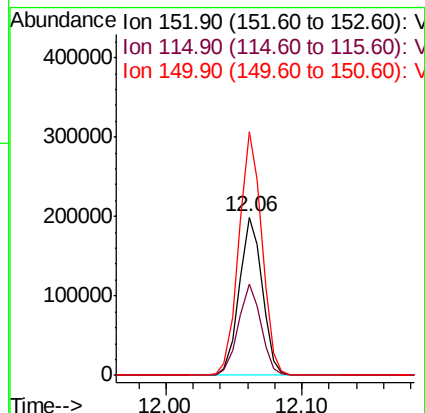
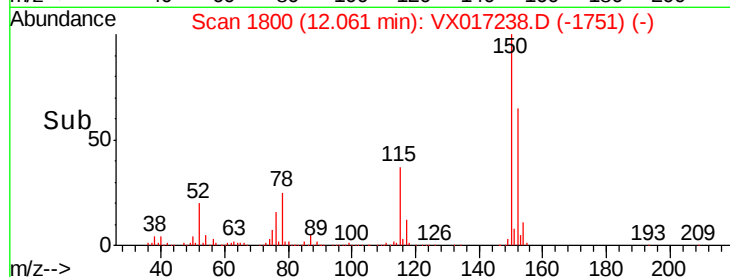
150 153.5 0.0 351.6



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: 22.802 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017238.D

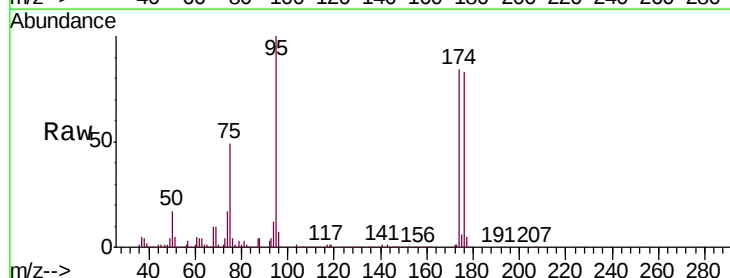
Acq: 08 Jul 2020 05:31

Tgt Ion: 75 Resp: 105103

Ion Ratio Lower Upper

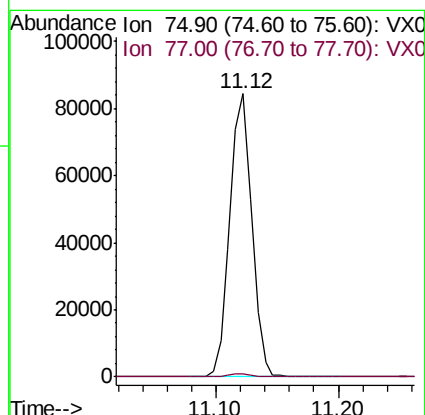
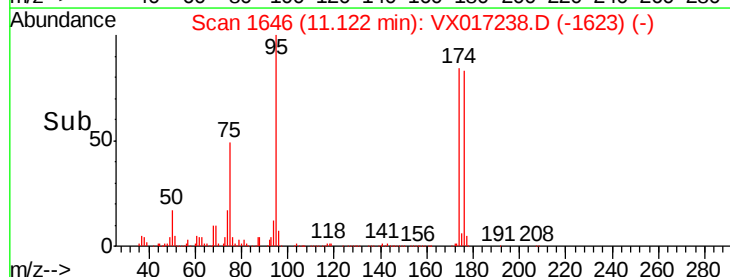
75 100

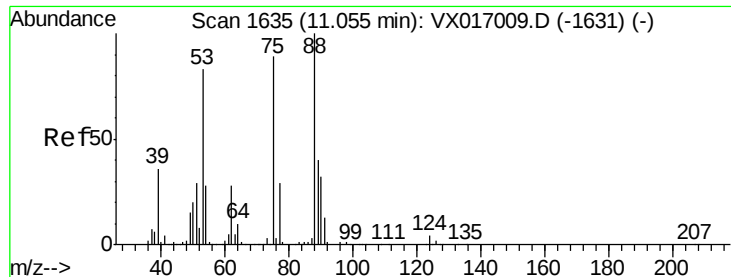
77 1.3 20.2 60.6#



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: 59.049 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX017238.D
 Acq: 08 Jul 2020 05:31

Instrument :
 MSVOA_X
 ClientSampleId :
 1005-MW-03A

Tgt Ion: 75 Resp: 105103
 Ion Ratio Lower Upper
 75 100
 53 0.3 72.4 108.6#
 89 0.1 37.0 55.4#

