

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072420\
 Data File : VX017596.D
 Acq On : 25 Jul 2020 15:15
 Operator : JC/SP
 Sample : L3382-23
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 70 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:14:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	411526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	702761	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	729316	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	381362	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	285381	53.99	ug/l	0.00
Spiked Amount			Recovery	=	107.98%	
35) Dibromofluoromethane	5.47	113	234666	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
50) Toluene-d8	8.70	98	890277	52.51	ug/l	0.00
Spiked Amount			Recovery	=	105.02%	
62) 4-Bromofluorobenzene	11.12	95	385908	56.87	ug/l	0.00
Spiked Amount			Recovery	=	113.74%	

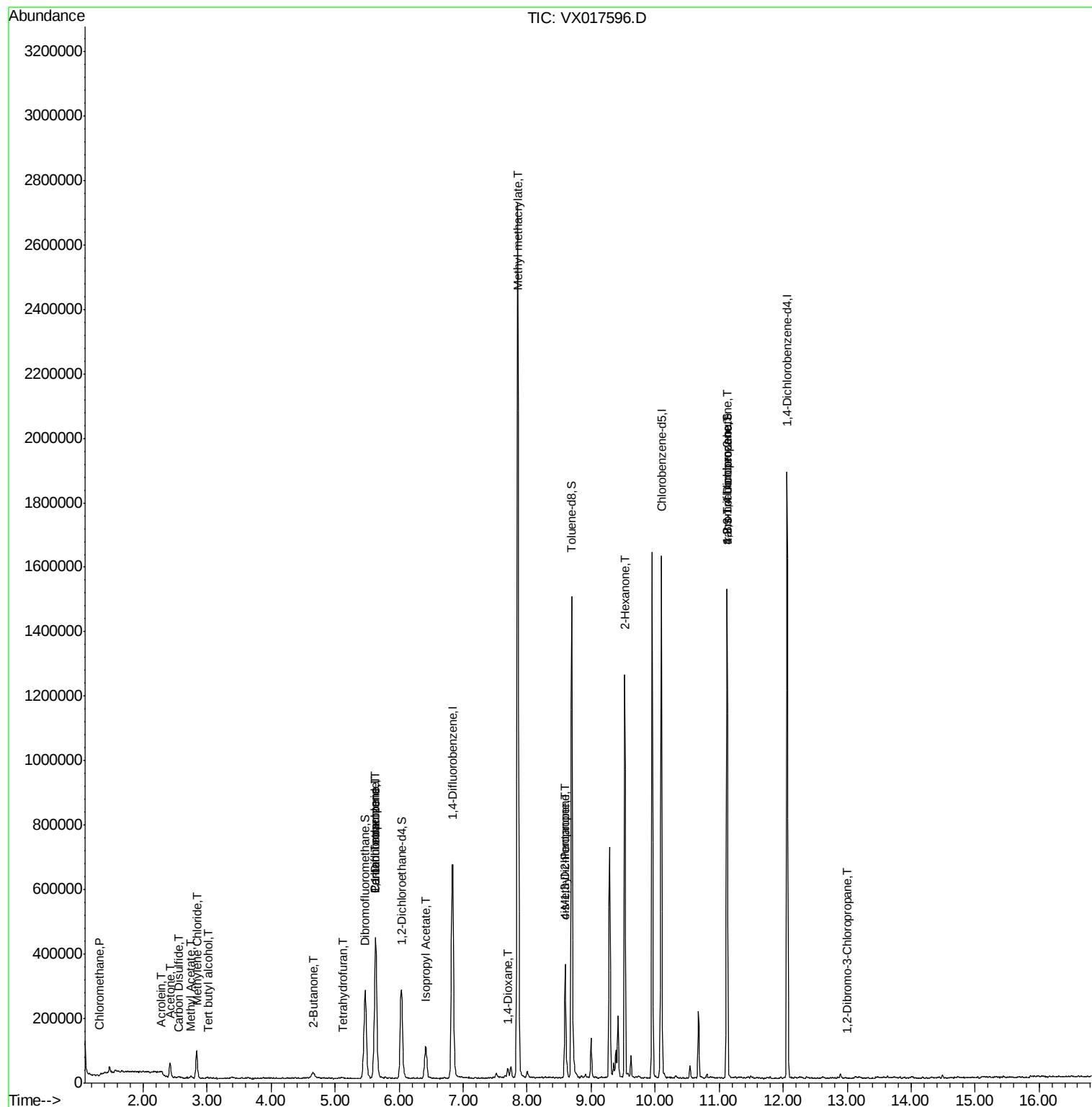
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	317	Below Cal		99
3) Chloromethane	1.31	50	1479	0.655 ug/l #		66
5) Bromomethane	1.60	94	334	Below Cal		82
6) Chloroethane	1.70	64	622	Below Cal #		44
8) Diethyl Ether	2.16	74	1719	Below Cal		70
11) Tert butyl alcohol	3.01	59	1762	1.582 ug/l #		88
13) Acrolein	2.28	56	1459	5.835 ug/l #		78
16) Acetone	2.42	43	49926	21.458 ug/l		94
17) Carbon Disulfide	2.55	76	2615	0.202 ug/l #		92
18) Methyl Acetate	2.75	43	7983	1.457 ug/l #		82
20) Methylene Chloride	2.84	84	40334	8.129 ug/l		99
25) 2-Butanone	4.65	43	11612	3.513 ug/l #		83
29) Tetrahydrofuran	5.11	42	2789	1.362 ug/l #		88
36) 1,1-Dichloropropene	5.63	75	31249	4.636 ug/l #		51
38) Carbon Tetrachloride	5.63	117	41891	5.118 ug/l #		15
43) Isopropyl Acetate	6.42	43	139906	11.498 ug/l		99
48) Methyl methacrylate	7.85	41	234432	38.868 ug/l #		46
49) 1,4-Dioxane	7.70	88	137	1.185 ug/l #		1
51) 4-Methyl-2-Pentanone	8.60	43	132767	18.287 ug/l #		53
54) cis-1,3-Dichloropropene	8.60	75	56071	6.447 ug/l #		59
59) 2-Hexanone	9.52	43	146794	26.856 ug/l #		50
76) 1,2,3-Trichloropropane	11.12	75	195753	24.953 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	195753	62.877 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	191	2.655 ug/l #		13

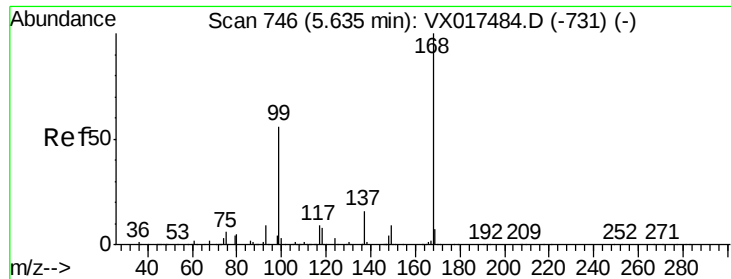
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

Instrument :

MSVOA_X

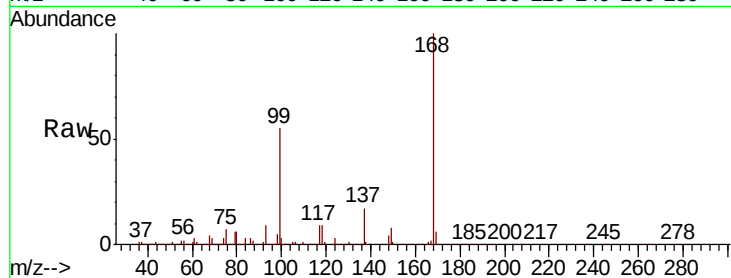
ClientSampleId :

Tot Ion:168 Resp: 411526

Ion Ratio Lower Upper

168 100

99 54.6 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

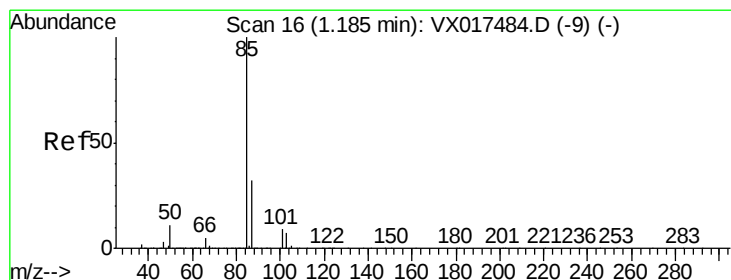
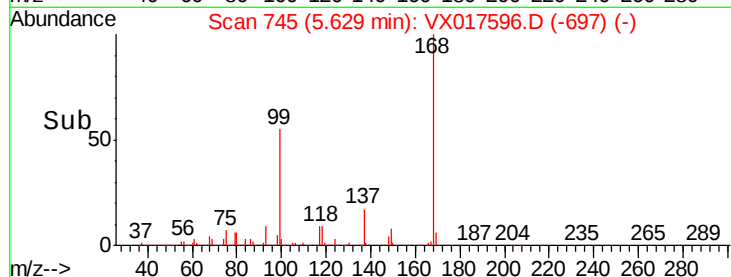
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017596.D

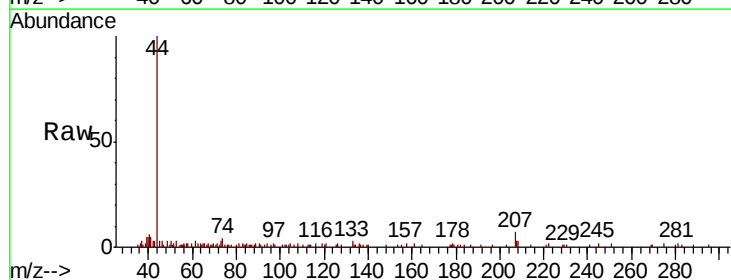
Acq: 25 Jul 2020 15:15

Tgt Ion: 85 Resp: 317

Ion Ratio Lower Upper

85 100

87 32.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

250

200

150

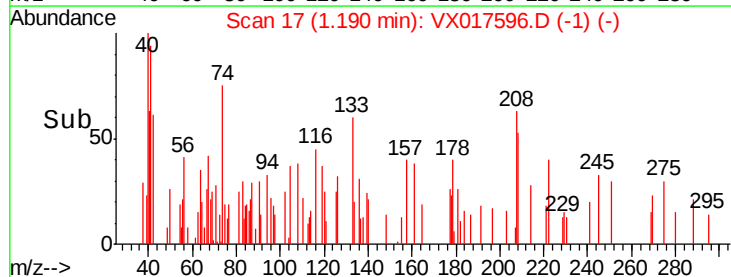
100

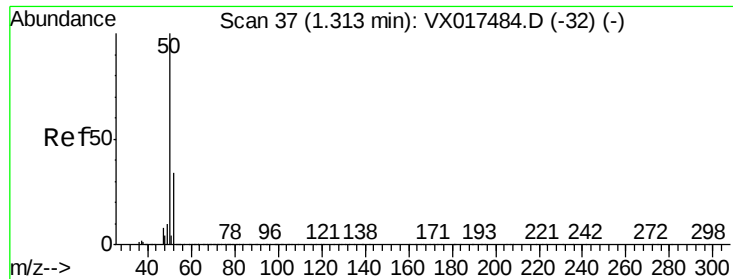
50

0

Time-->

1.16 1.18 1.20 1.22

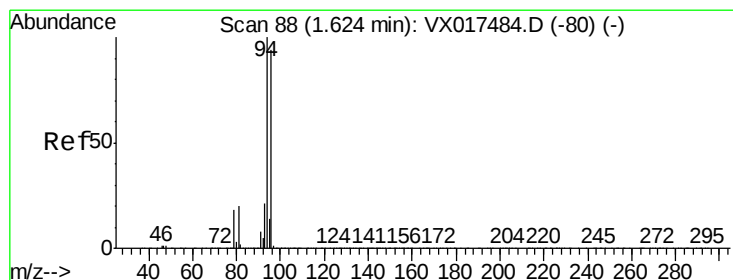
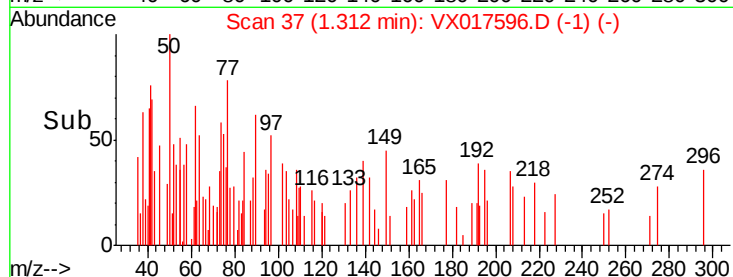
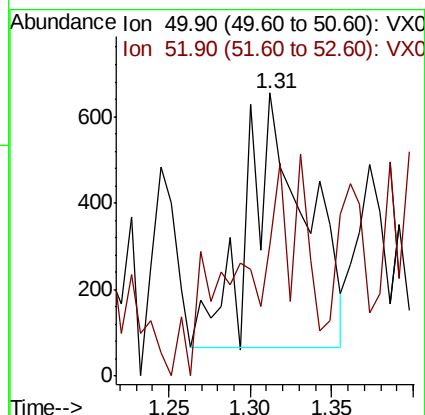
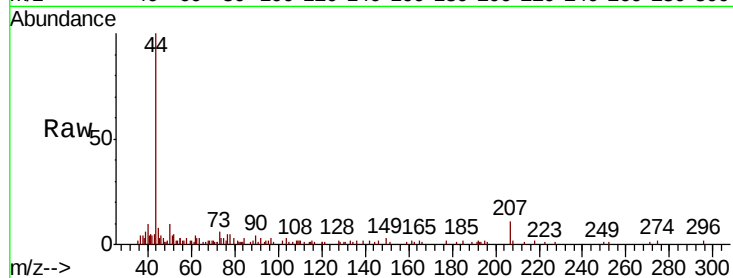




#3
Chloromethane
Concen: 0.655 ug/l
RT: 1.31 min Scan# 37
Delta R.T. 0.00 min
Lab File: VX017596.D
Acq: 25 Jul 2020 15:15

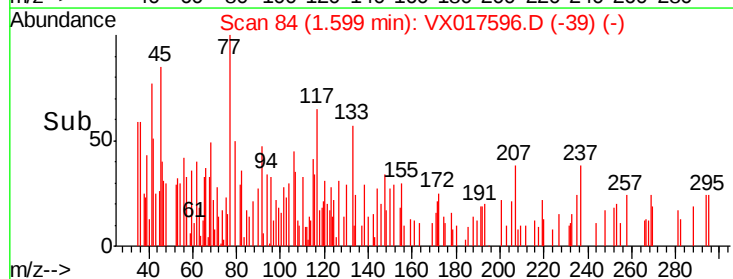
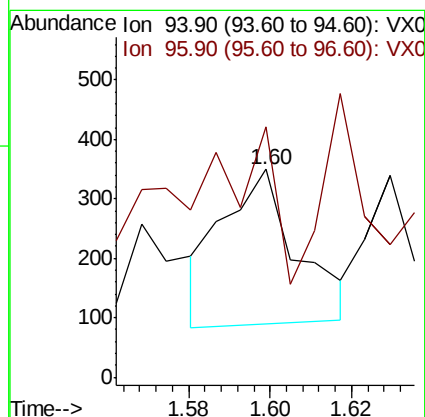
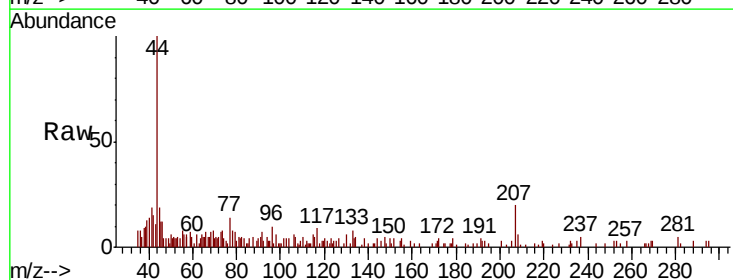
Instrument :
MSVOA_X
ClientSampled :

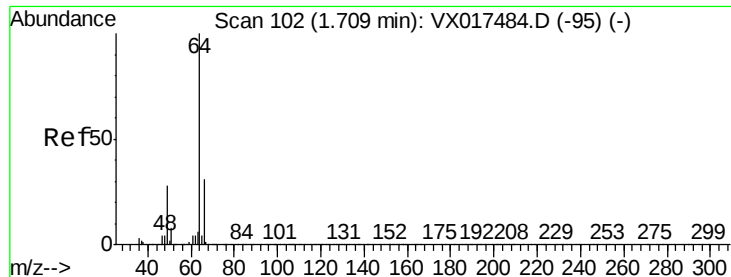
Tot Ion: 50 Resp: 1479
Ion Ratio Lower Upper
50 100
52 51.5 25.9 38.9#



#5
Bromomethane
Concen: Below Cal
RT: 1.60 min Scan# 84
Delta R.T. -0.02 min
Lab File: VX017596.D
Acq: 25 Jul 2020 15:15

Tgt Ion: 94 Resp: 334
Ion Ratio Lower Upper
94 100
96 75.0 74.1 111.1





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 101

Delta R.T. -0.01 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

Instrument :

MSVOA_X

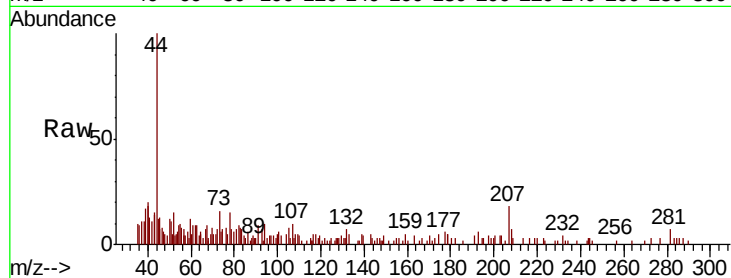
ClientSampled :

Tot Ion: 64 Resp: 622

Ion Ratio Lower Upper

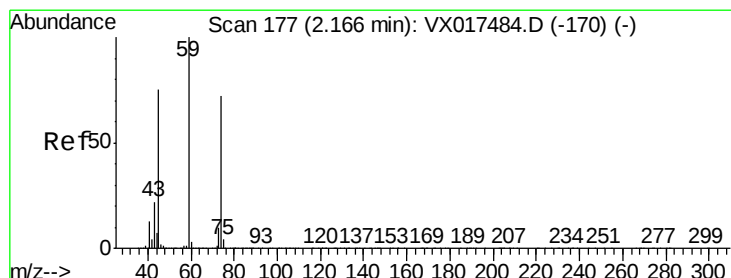
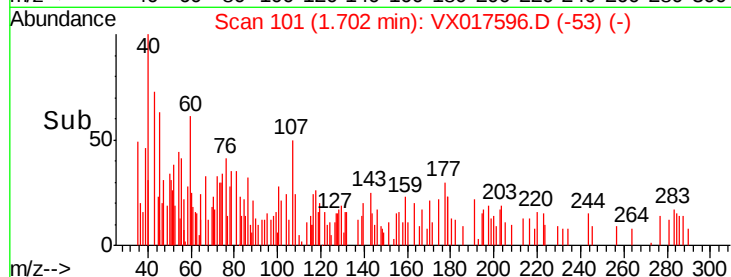
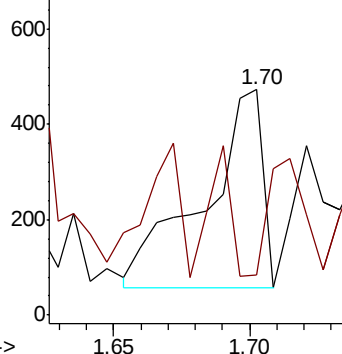
64 100

66 0.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VX017596.D

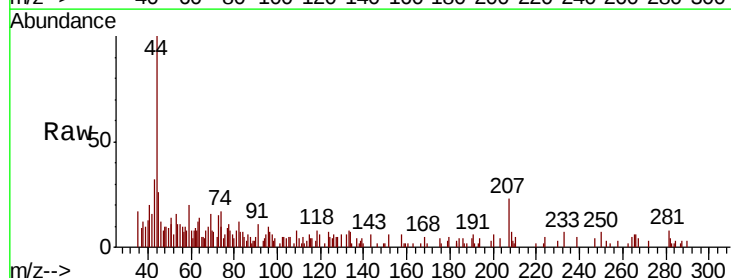
Acq: 25 Jul 2020 15:15

Tgt Ion: 74 Resp: 1719

Ion Ratio Lower Upper

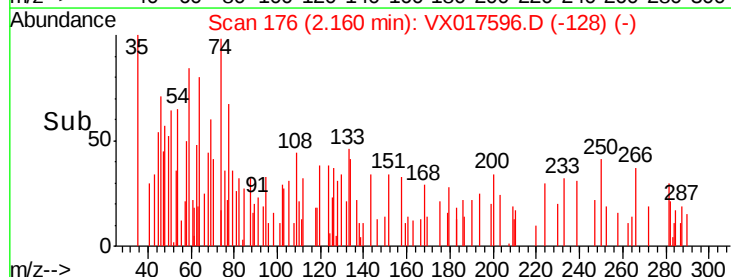
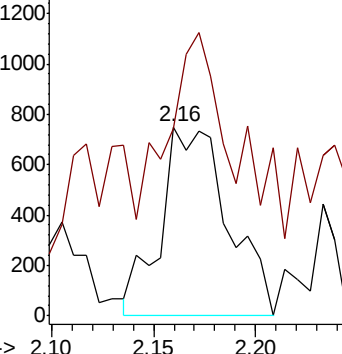
74 100

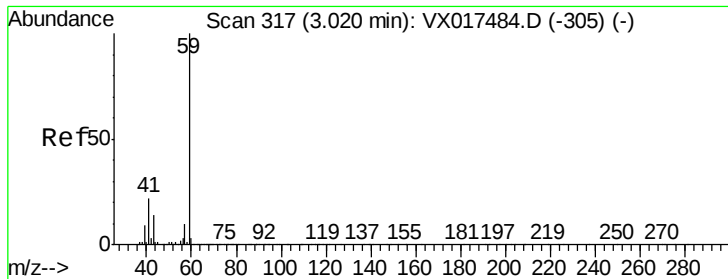
45 71.4 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



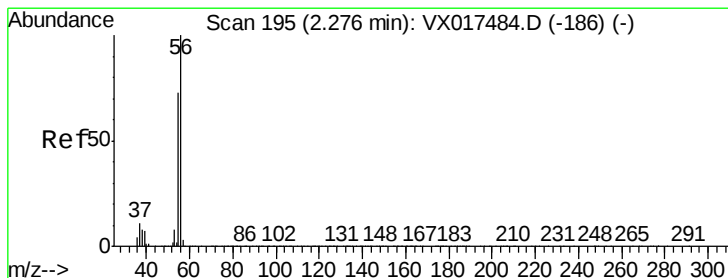
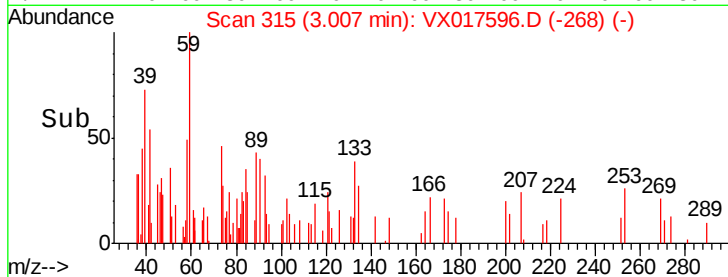
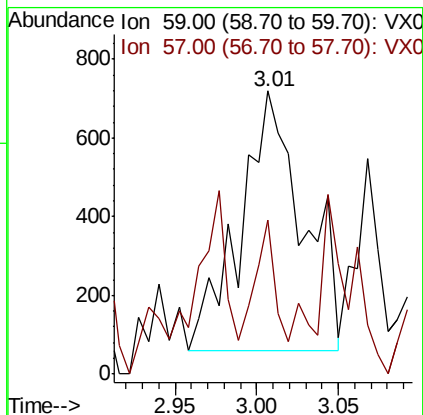
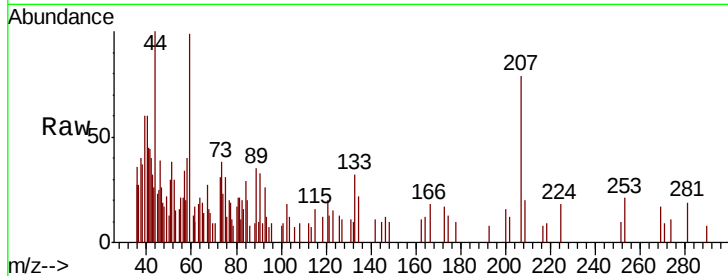


#11

Tert butyl alcohol
 Concen: 1.582 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX017596.D
 Acq: 25 Jul 2020 15:15

Instrument :
 MSVOA_X
 ClientSampleId :

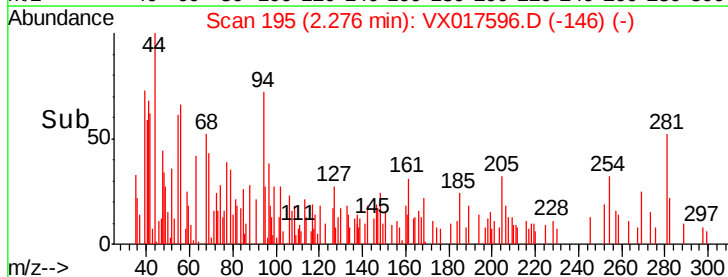
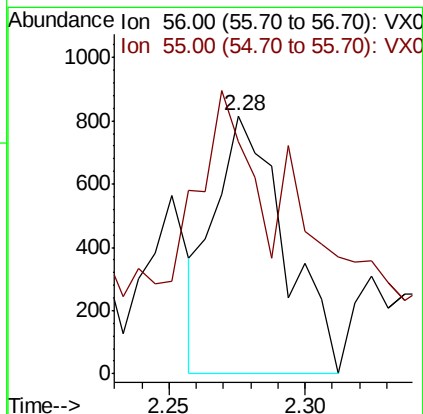
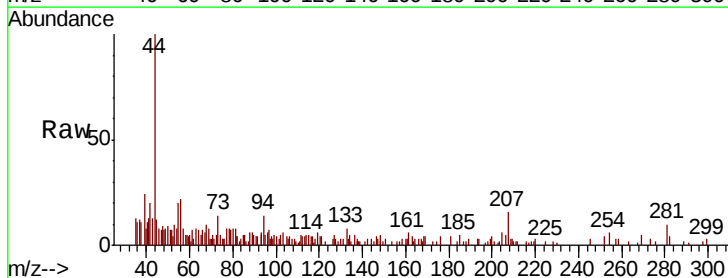
Tot Ion: 59 Resp: 1762
 Ion Ratio Lower Upper
 59 100
 57 15.2 8.6 12.8#

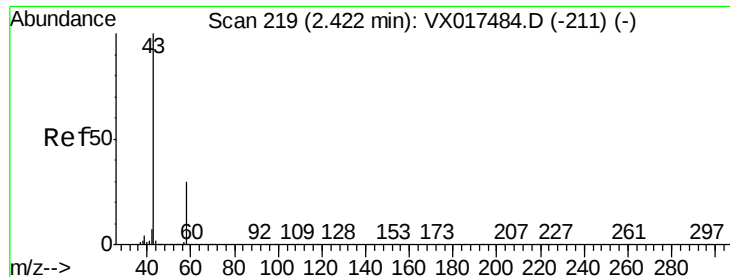


#13

Acrolein
 Concen: 5.835 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. -0.00 min
 Lab File: VX017596.D
 Acq: 25 Jul 2020 15:15

Tgt Ion: 56 Resp: 1459
 Ion Ratio Lower Upper
 56 100
 55 53.6 57.4 86.2#

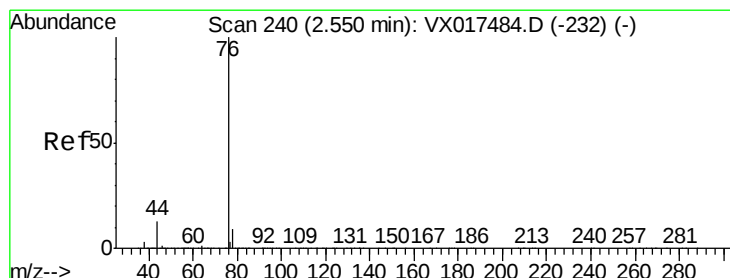
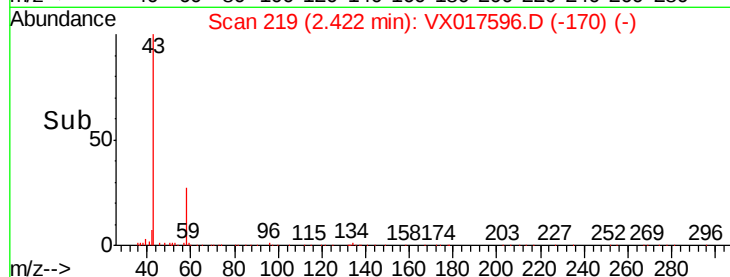
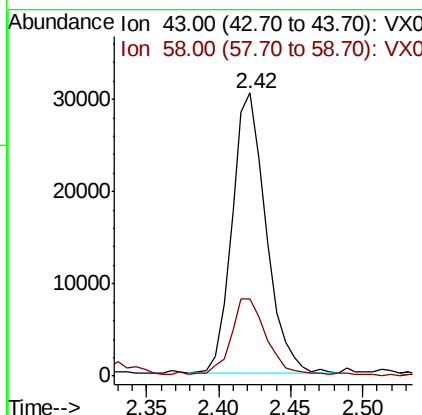
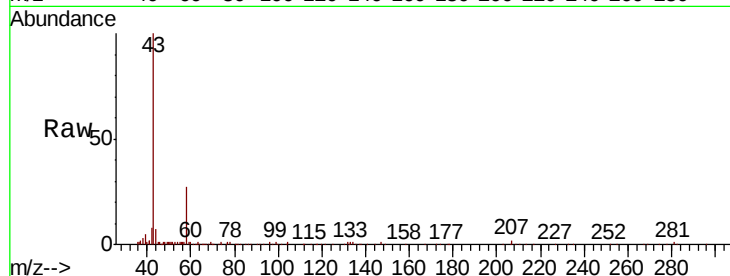




#16
Acetone
Concen: 21.458 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017596.D
Acq: 25 Jul 2020 15:15

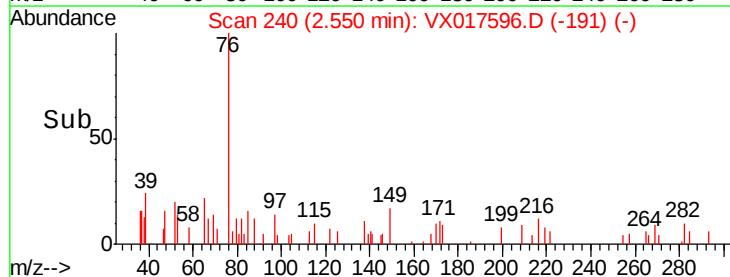
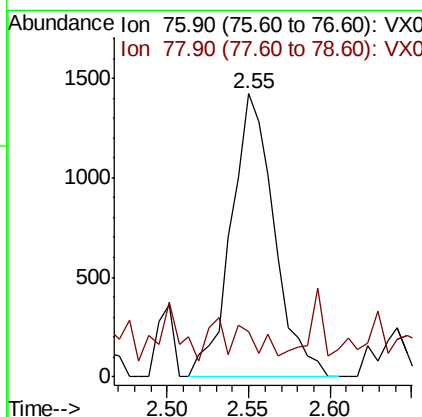
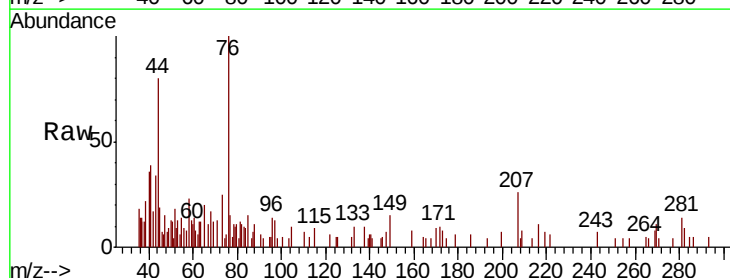
Instrument :
MSVOA_X
ClientSampleId :

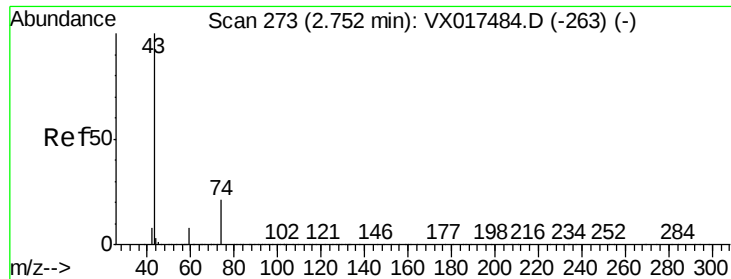
Tot Ion: 43 Resp: 49926
Ion Ratio Lower Upper
43 100
58 26.8 24.2 36.4



#17
Carbon Disulfide
Concen: 0.202 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX017596.D
Acq: 25 Jul 2020 15:15

Tgt Ion: 76 Resp: 2615
Ion Ratio Lower Upper
76 100
78 6.4 7.5 11.3#

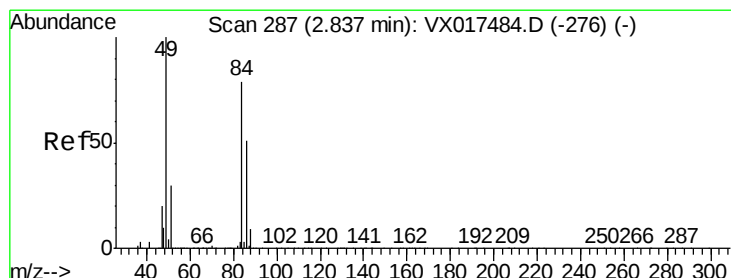
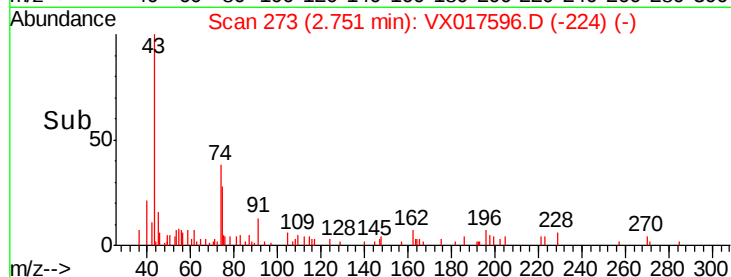
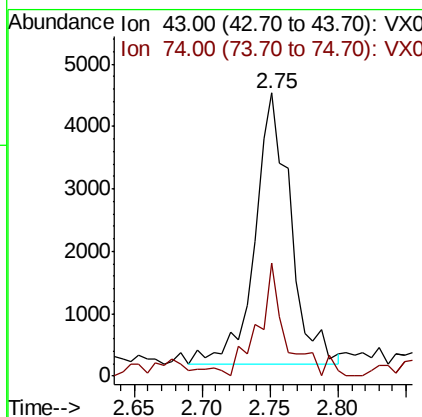
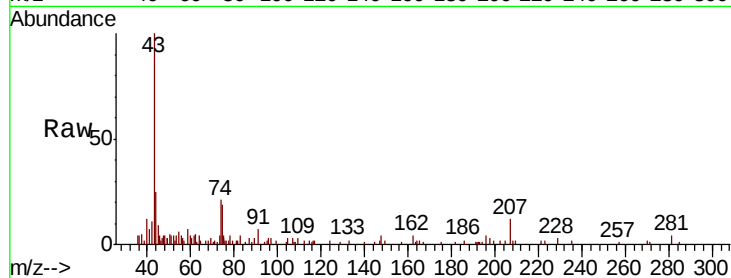




#18
Methyl Acetate
Concen: 1.457 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017596.D
Acq: 25 Jul 2020 15:15

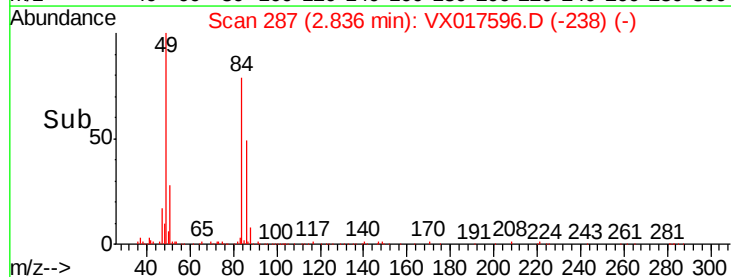
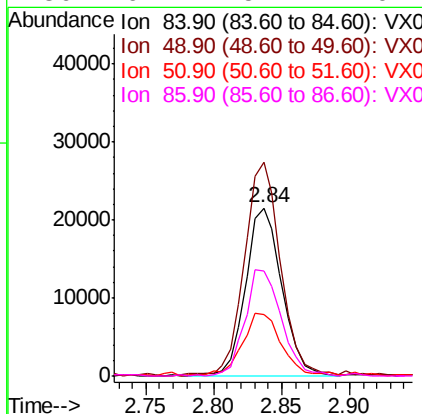
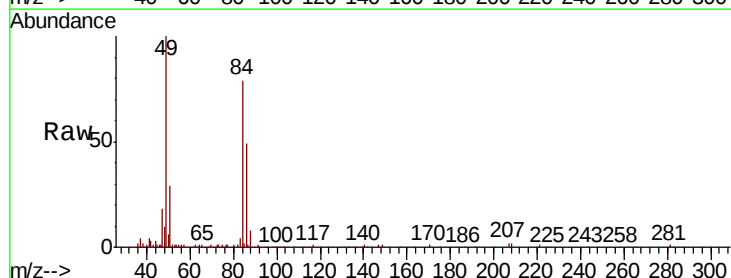
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MSVOA_X
ClientSampled :

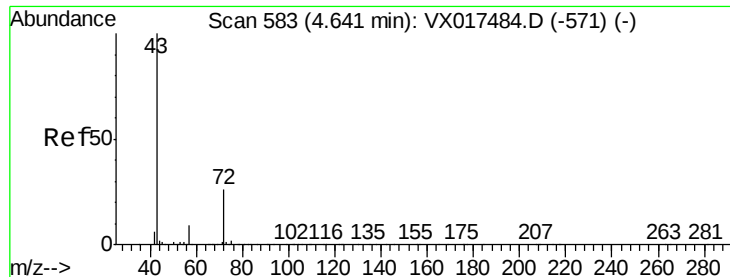
Tot Ion: 43 Resp: 7983
Ion Ratio Lower Upper
43 100
74 30.3 17.5 26.3#



#20
Methylene Chloride
Concen: 8.129 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017596.D
Acq: 25 Jul 2020 15:15

Tgt Ion: 84 Resp: 40334
Ion Ratio Lower Upper
84 100
49 126.0 100.3 150.5
51 36.4 30.5 45.7
86 62.4 51.1 76.7





#25

2-Butanone

Concen: 3.513 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

Instrument :

MSVOA_X

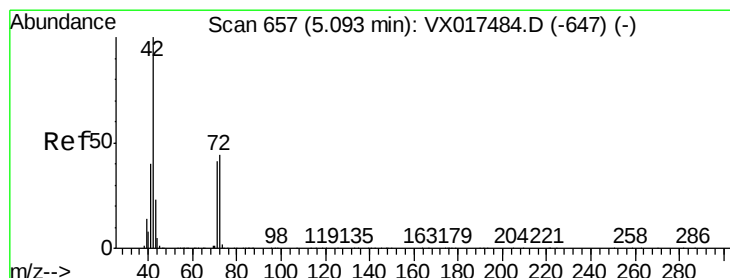
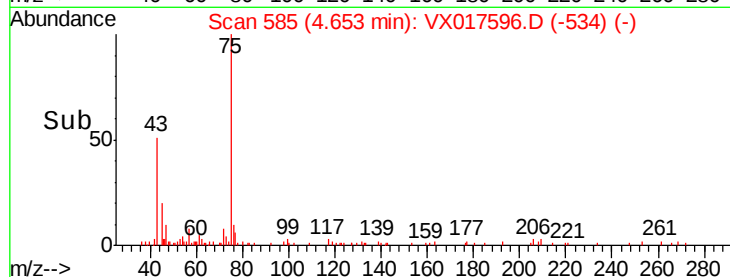
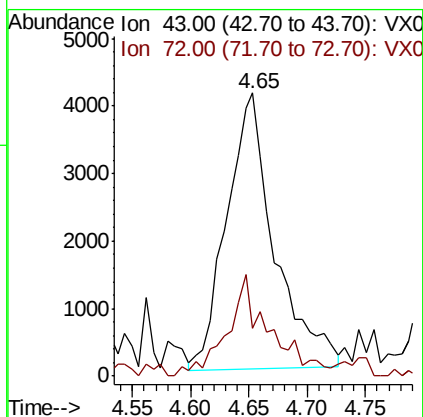
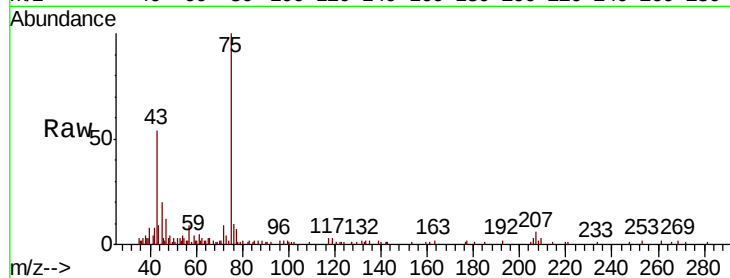
ClientSampled :

Tot Ion: 43 Resp: 11612

Ion Ratio Lower Upper

43 100

72 15.5 19.0 28.4#



#29

Tetrahydrofuran

Concen: 1.362 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

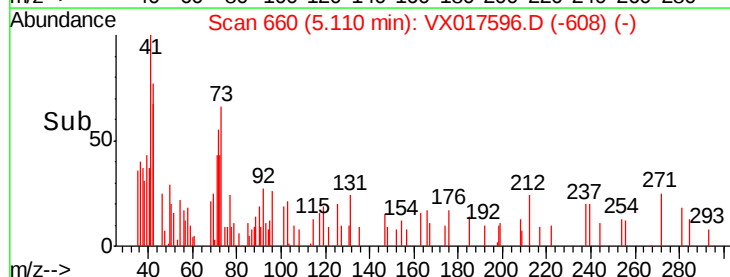
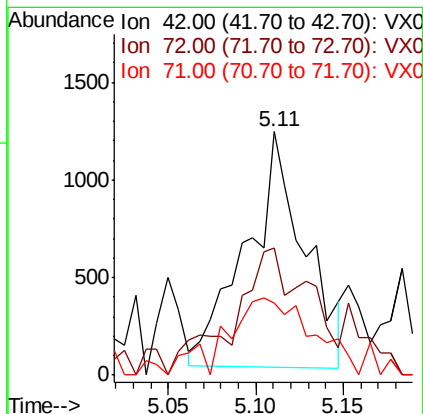
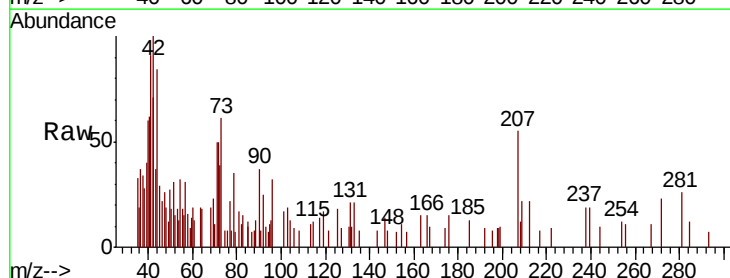
Tgt Ion: 42 Resp: 2789

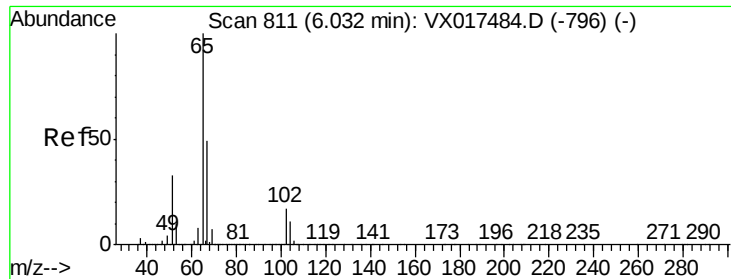
Ion Ratio Lower Upper

42 100

72 56.4 35.5 53.3#

71 44.4 33.0 49.4

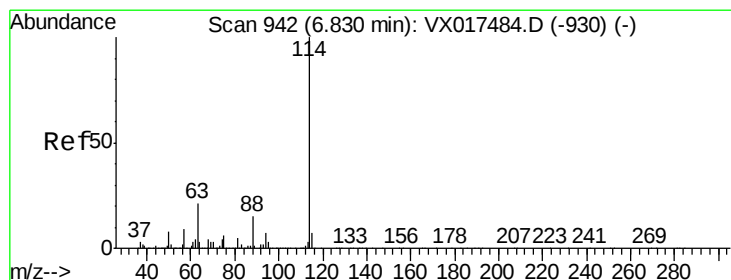
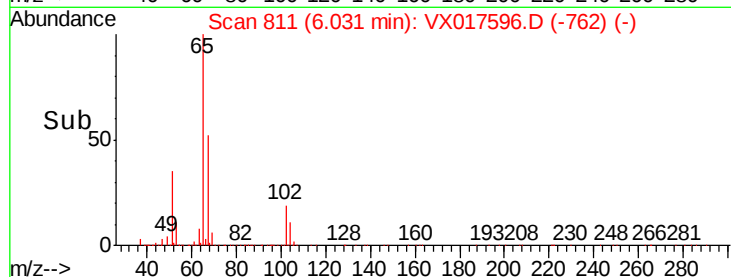
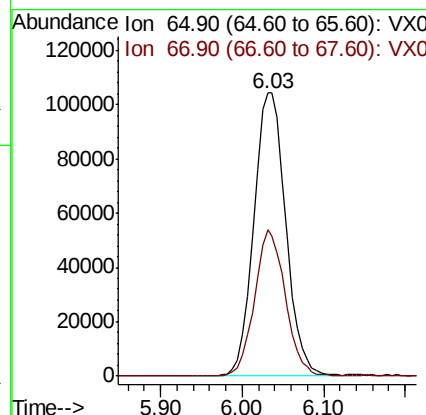
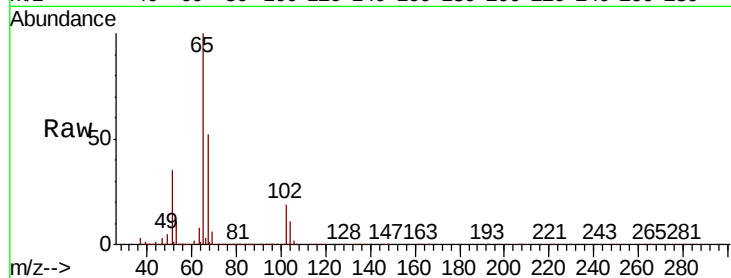




#33
 1,2-Dichloroethane-d4
 Concen: 53.986 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017596.D
 Acq: 25 Jul 2020 15:15

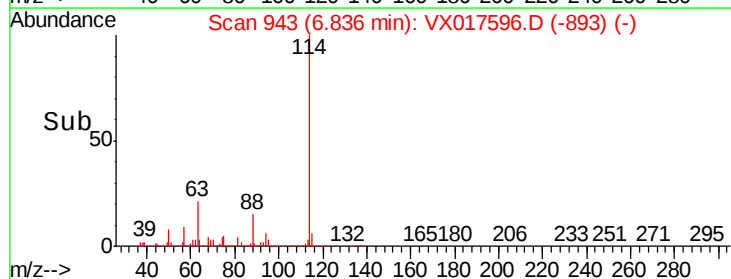
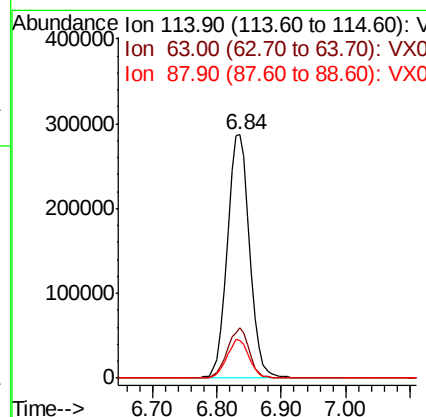
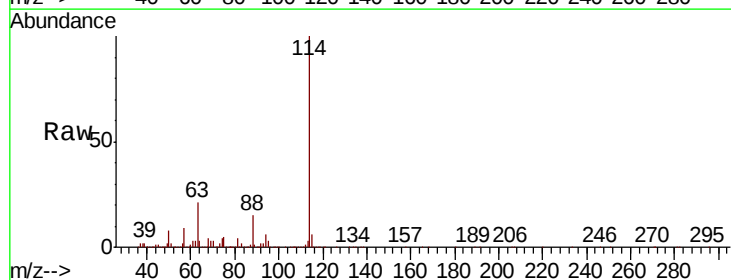
Instrument :
 MSVOA_X
 ClientSampleId :

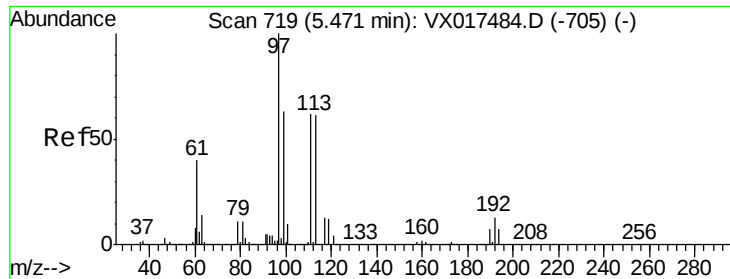
Tot Ion: 65 Resp: 285381
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017596.D
 Acq: 25 Jul 2020 15:15

Tgt Ion: 114 Resp: 702761
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.6
 88 15.3 0.0 33.4

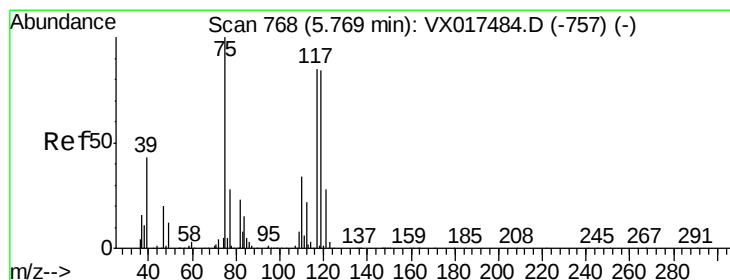
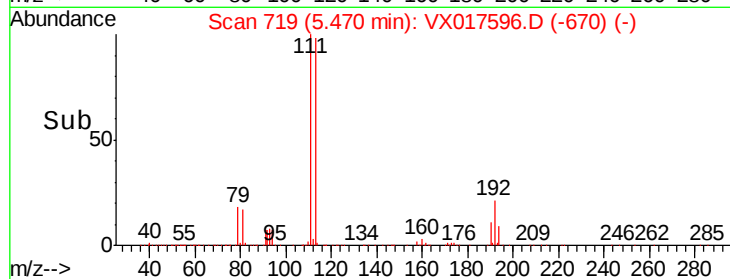
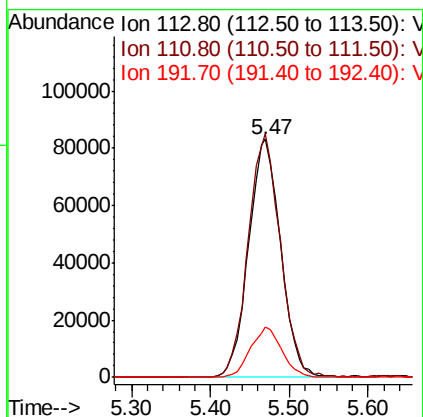
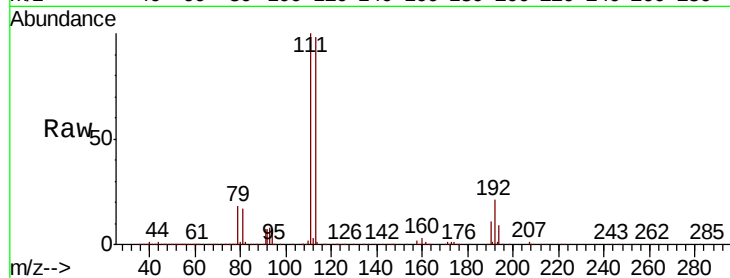




#35
 Dibromofluoromethane
 Concen: 49.928 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017596.D
 Acq: 25 Jul 2020 15:15

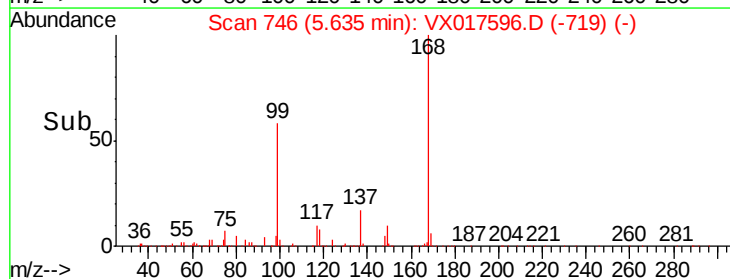
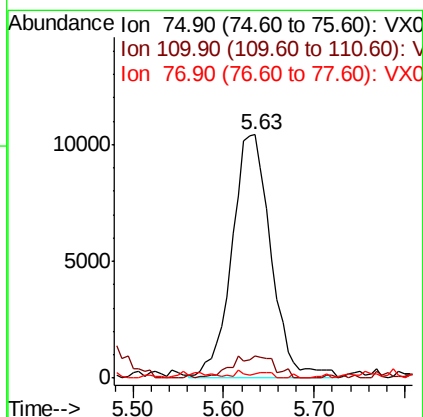
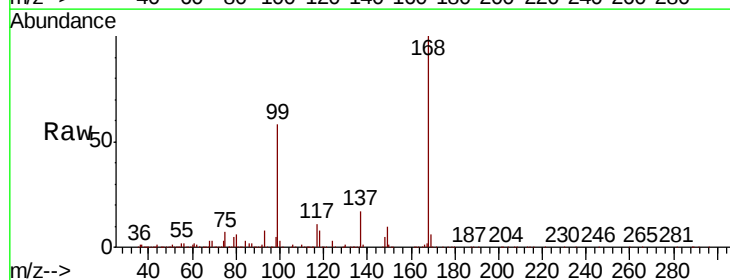
Instrument :
 MSVOA_X
 ClientSampleId :

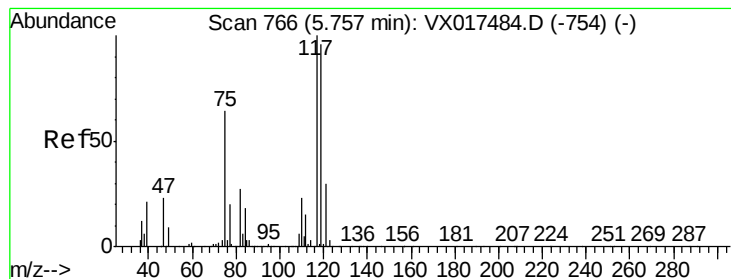
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.7	121.1
192	20.8	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 4.636 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017596.D
 Acq: 25 Jul 2020 15:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.1	54.3#
77	0.6	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.118 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

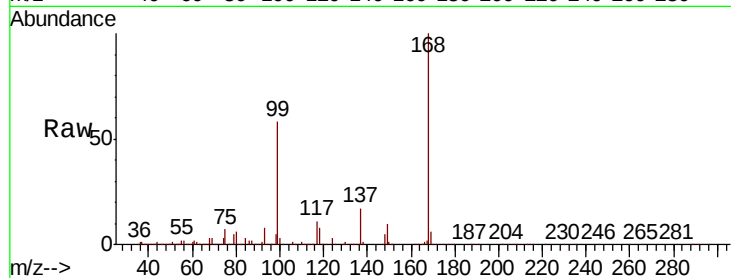
Tot Ion:117 Resp: 41891

Ion Ratio Lower Upper

117 100

119 2.5 75.4 113.0#

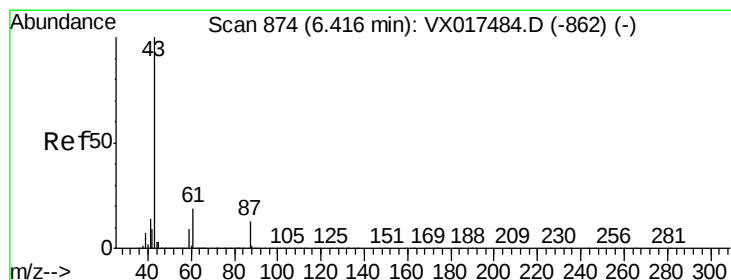
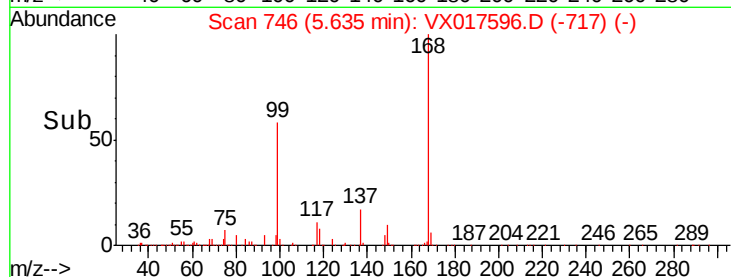
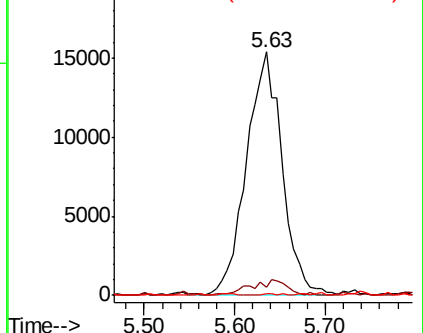
121 0.4 24.3 36.5#



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: 11.498 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

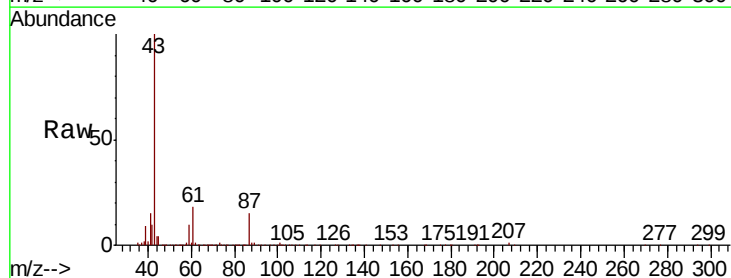
Tgt Ion: 43 Resp: 139906

Ion Ratio Lower Upper

43 100

61 20.1 15.5 23.3

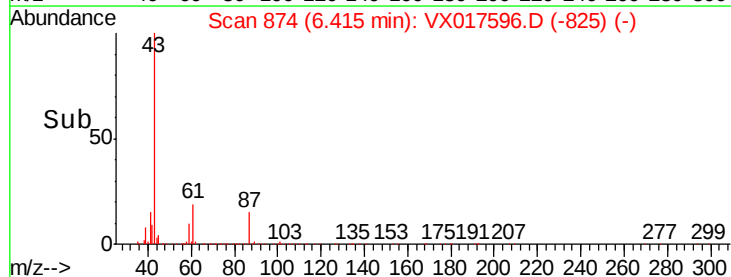
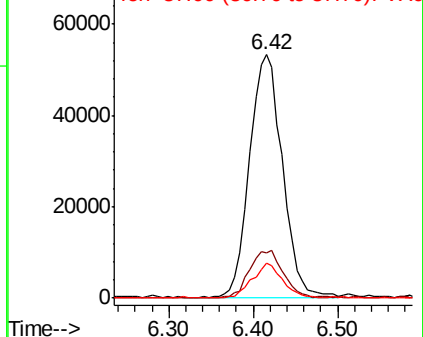
87 13.5 10.5 15.7

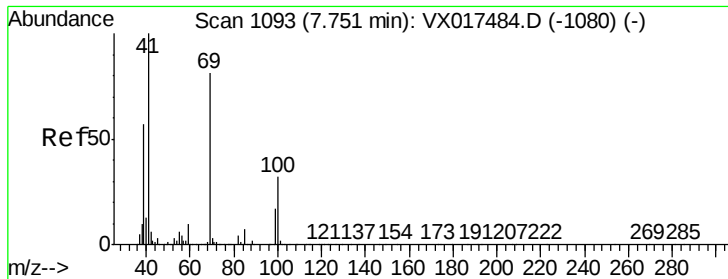


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

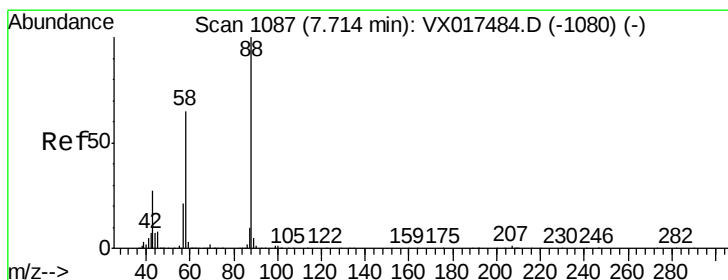
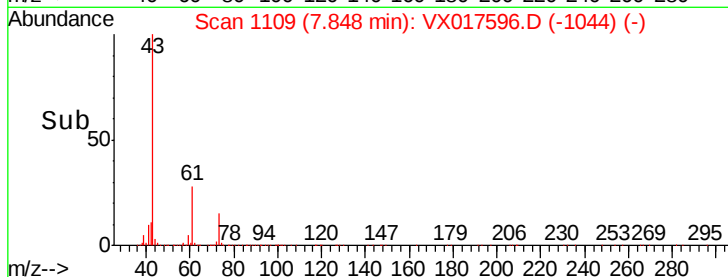
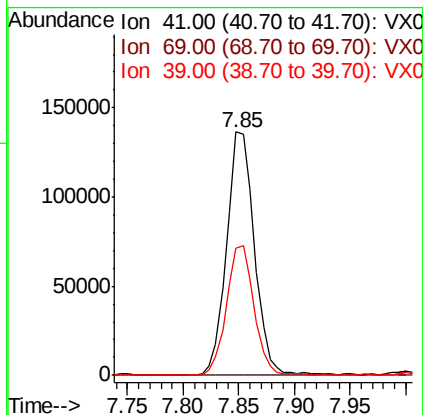
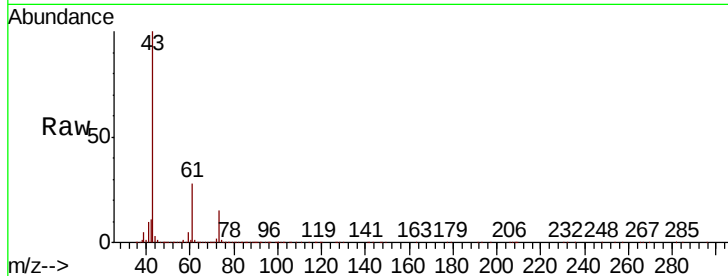




#48
Methyl methacrylate
Concen: 38.868 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.10 min
Lab File: VX017596.D
Acq: 25 Jul 2020 15:15

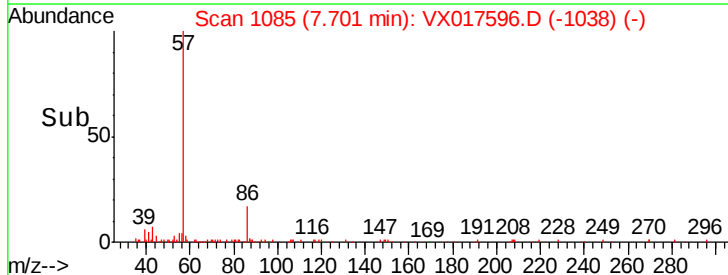
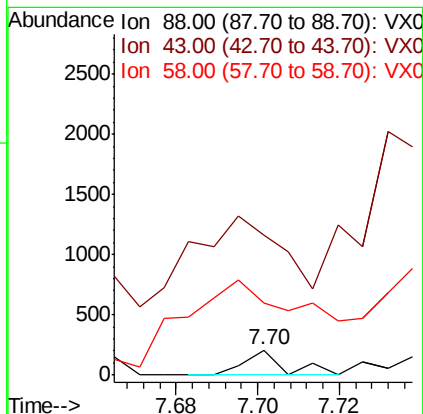
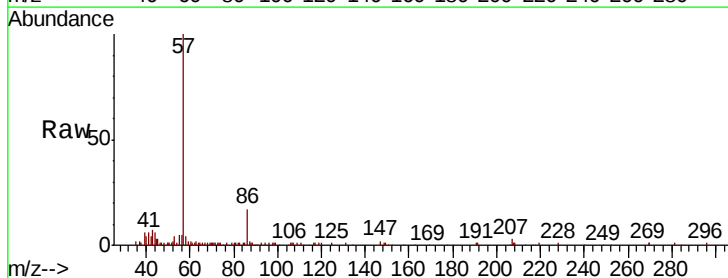
Instrument :
MSVOA_X
ClientSampleId :

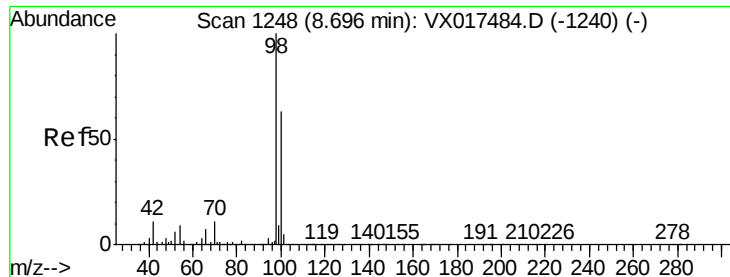
Tot Ion: 41 Resp: 234432
Ion Ratio Lower Upper
41 100
69 0.3 63.1 94.7#
39 52.7 45.1 67.7



#49
1,4-Dioxane
Concen: 1.185 ug/l
RT: 7.70 min Scan# 1085
Delta R.T. -0.01 min
Lab File: VX017596.D
Acq: 25 Jul 2020 15:15

Tgt Ion: 88 Resp: 137
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.6#
58 1065.0 58.3 87.5#





#50

Toluene-d8

Concen: 52.507 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

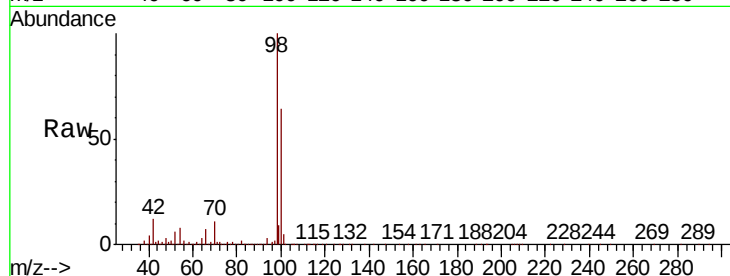
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 890277

Ion Ratio Lower Upper

98 100

100 64.8 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

600000

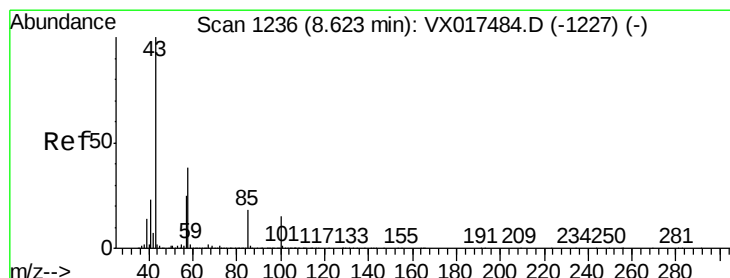
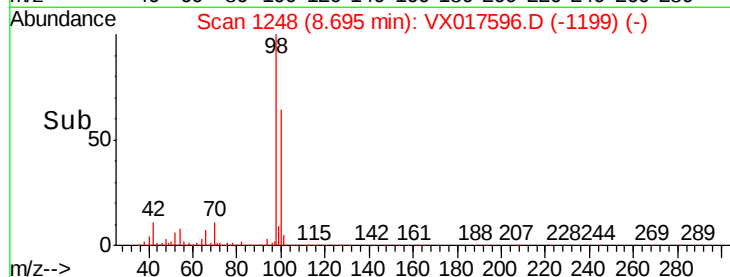
400000

200000

0

Time-->

8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 18.287 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX017596.D

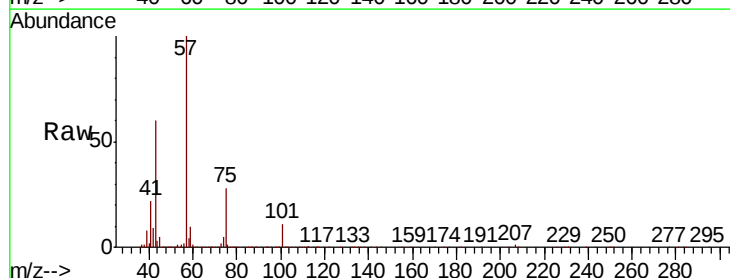
Acq: 25 Jul 2020 15:15

Tgt Ion: 43 Resp: 132767

Ion Ratio Lower Upper

43 100

58 10.3 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.60

80000

60000

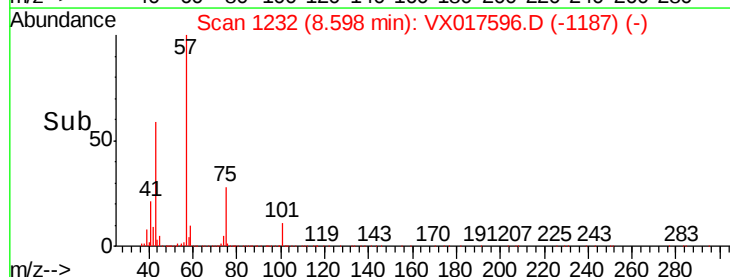
40000

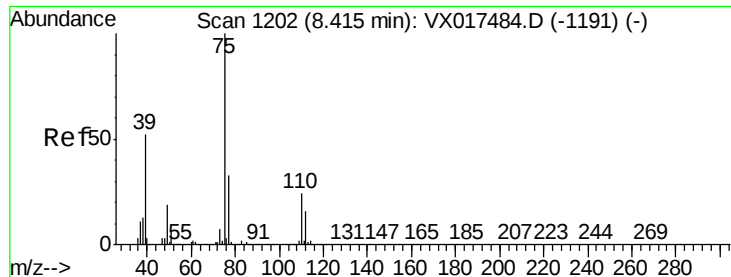
20000

0

Time-->

8.50 8.55 8.60 8.65 8.70





#54

cis-1,3-Dichloropropene

Concen: 6.447 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

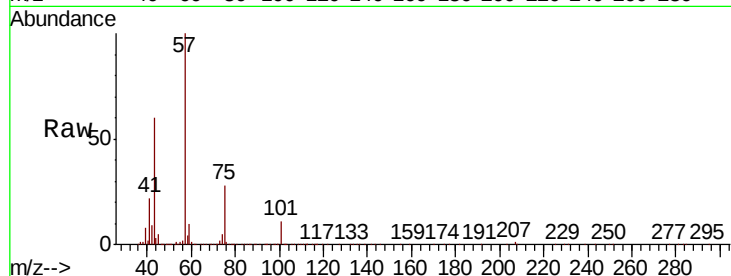
Tot Ion: 75 Resp: 56071

Ion Ratio Lower Upper

75 100

77 0.8 25.5 38.3#

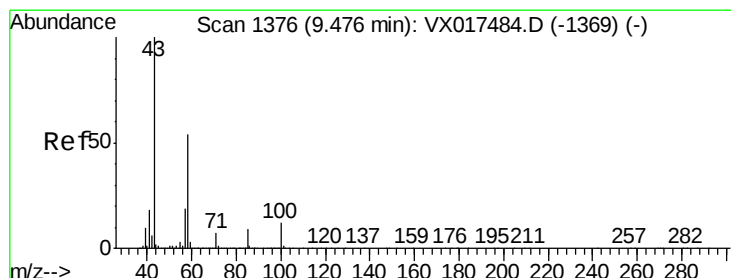
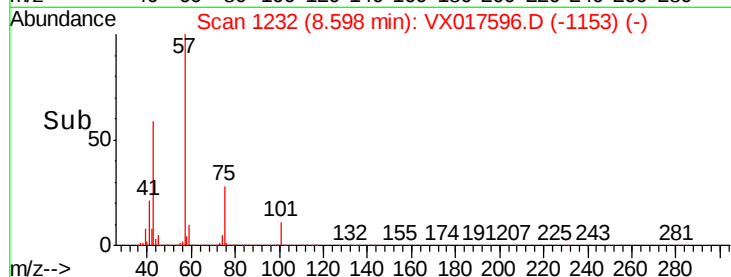
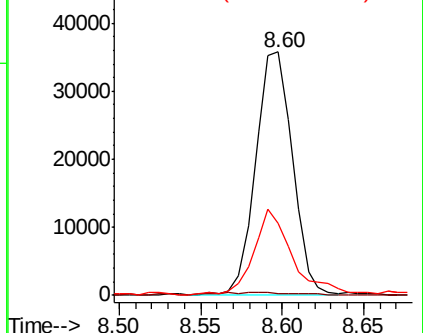
39 29.6 41.8 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 26.856 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX017596.D

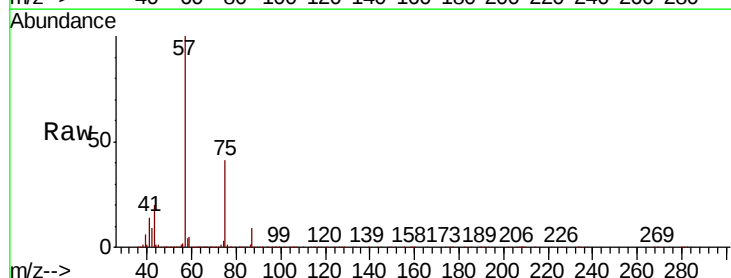
Acq: 25 Jul 2020 15:15

Tgt Ion: 43 Resp: 146794

Ion Ratio Lower Upper

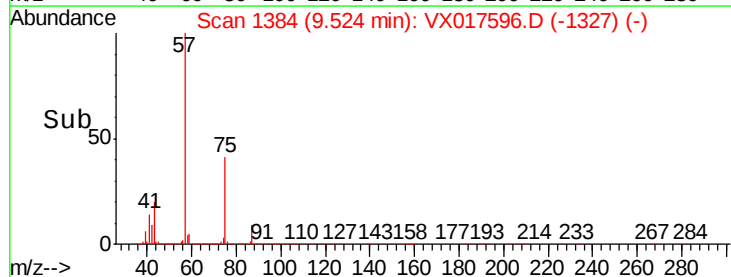
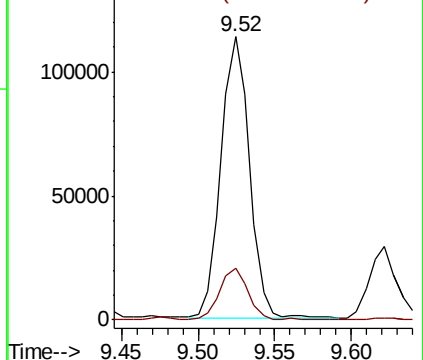
43 100

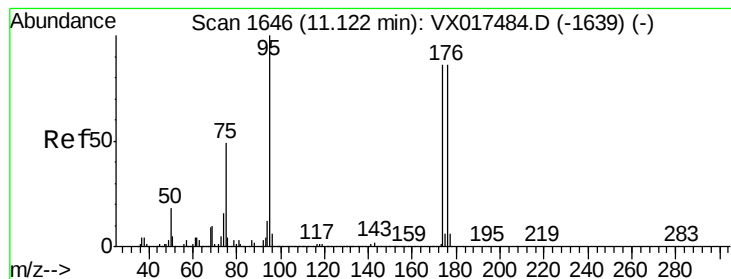
58 17.8 26.6 79.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 56.871 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

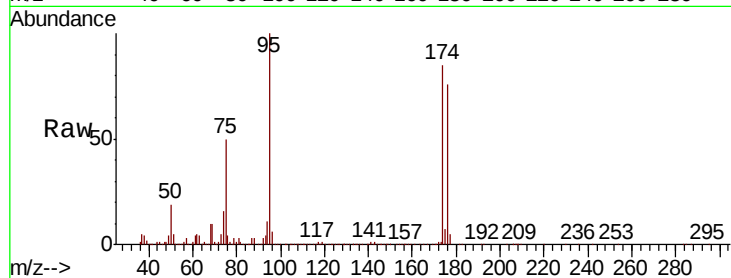
Tot Ion: 95 Resp: 385908

Ion Ratio Lower Upper

95 100

174 86.0 0.0 169.0

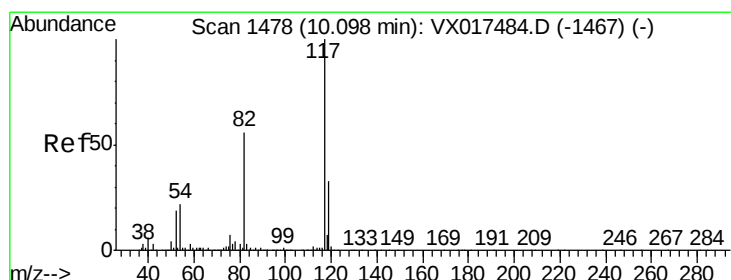
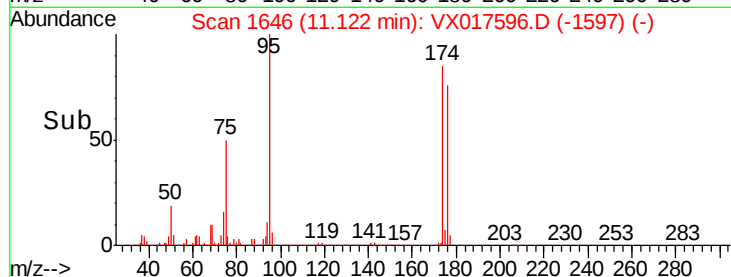
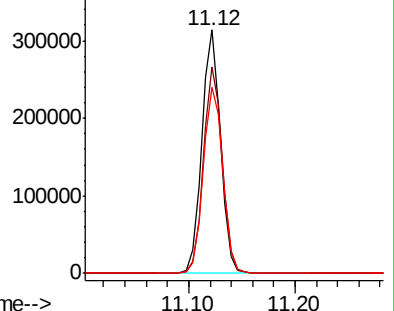
176 80.2 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX017484.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017484.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017484.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

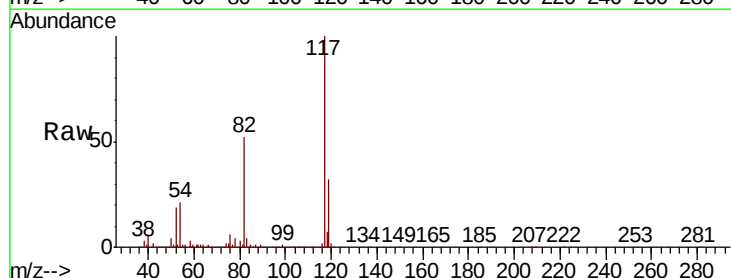
Tgt Ion: 117 Resp: 729316

Ion Ratio Lower Upper

117 100

82 51.7 44.0 66.0

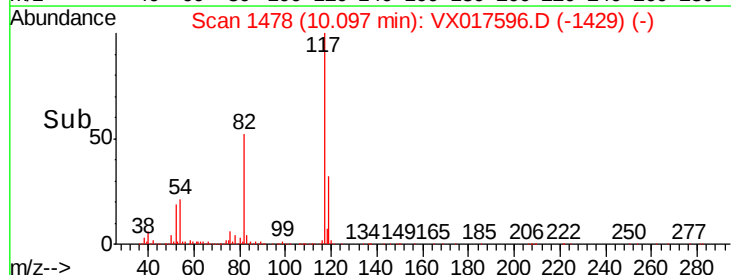
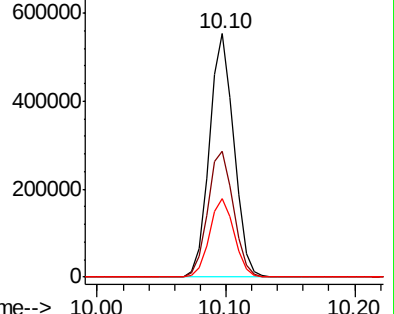
119 32.2 25.4 38.0

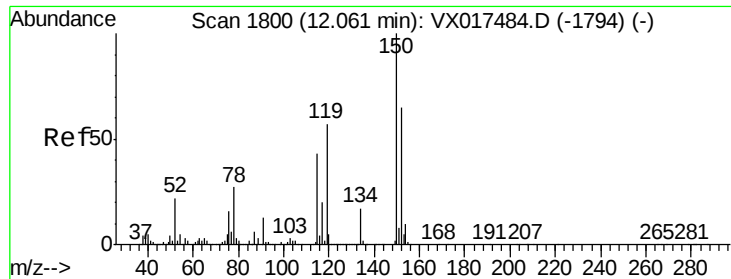


Abundance Ion 116.90 (116.60 to 117.60): VX017484.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX017484.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX017484.D (-1467) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

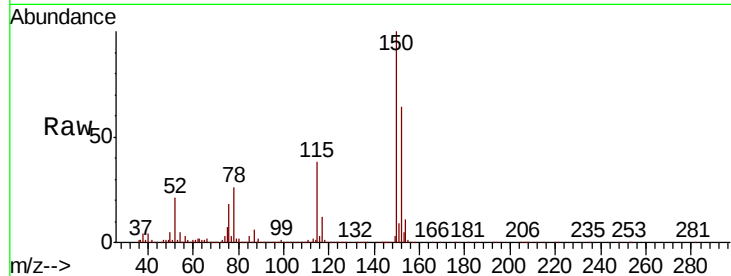
Tot Ion:152 Resp: 381362

Ion Ratio Lower Upper

152 100

115 58.5 65.5 196.6#

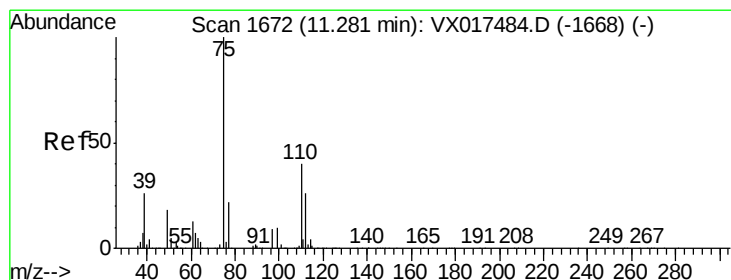
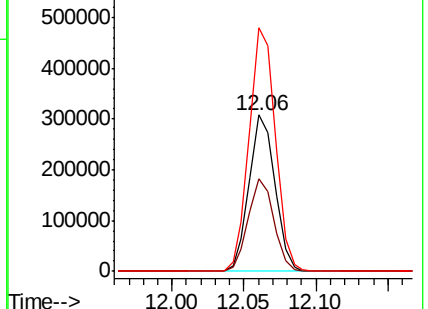
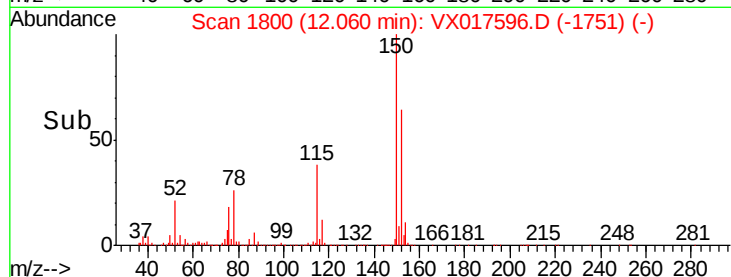
150 157.5 0.0 412.6



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: 24.953 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017596.D

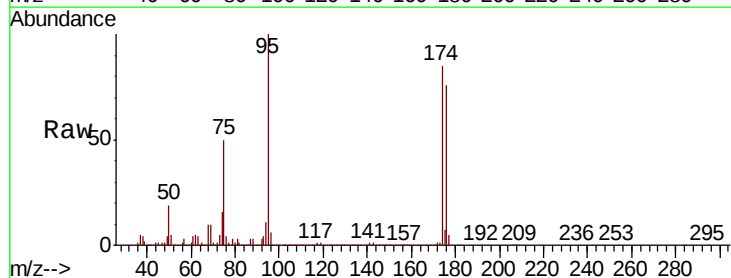
Acq: 25 Jul 2020 15:15

Tgt Ion: 75 Resp: 195753

Ion Ratio Lower Upper

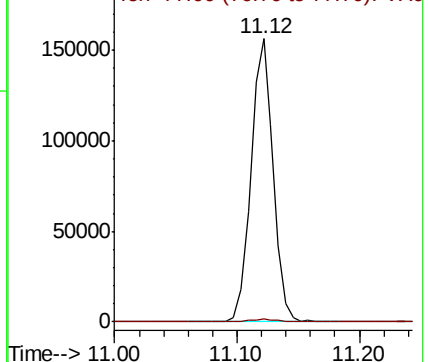
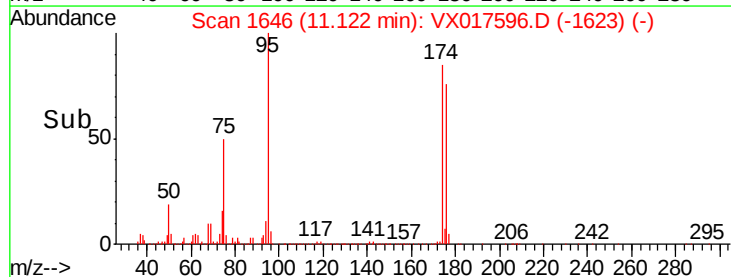
75 100

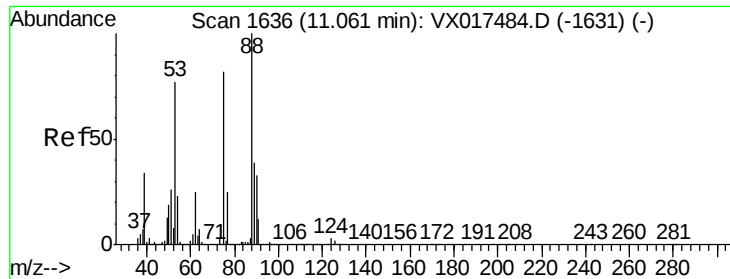
77 1.3 21.8 65.3#



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: 62.877 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

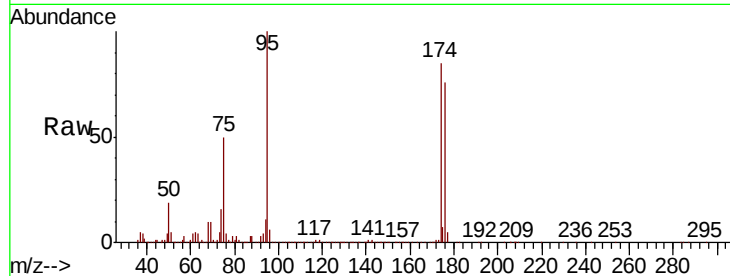
Tot Ion: 75 Resp: 195753

Ion Ratio Lower Upper

75 100

53 0.0 75.9 113.9#

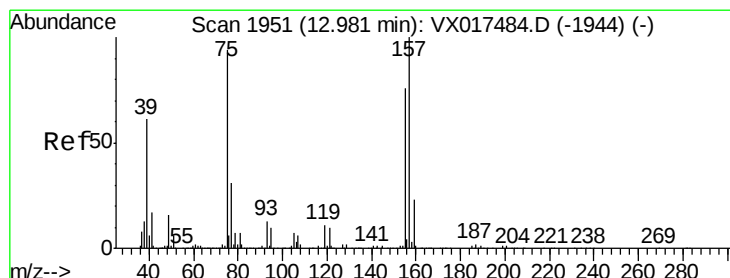
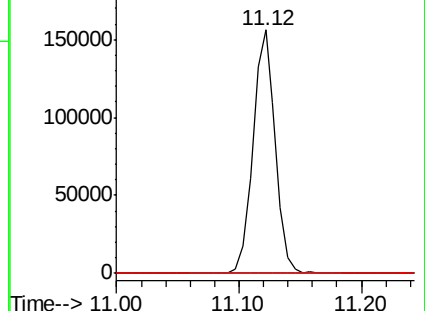
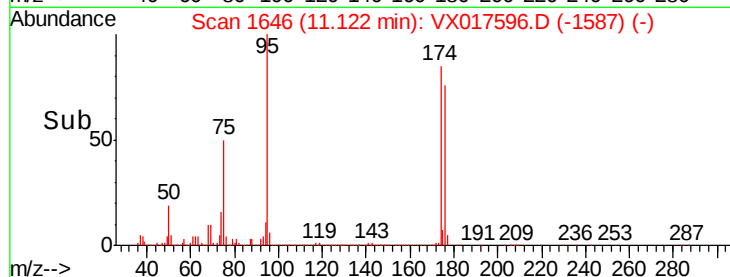
89 0.1 37.8 56.6#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.655 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017596.D

Acq: 25 Jul 2020 15:15

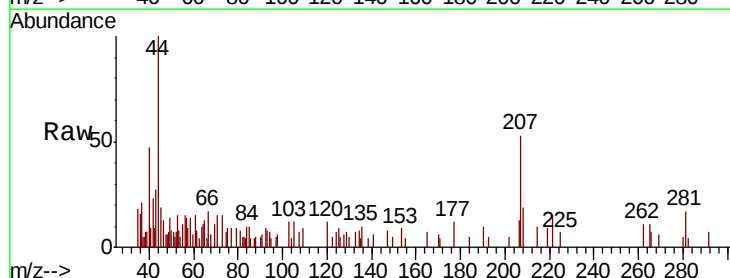
Tgt Ion: 75 Resp: 191

Ion Ratio Lower Upper

75 100

155 25.7 42.3 126.8#

157 0.0 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

