

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072320\
 Data File : VX017492.D
 Acq On : 23 Jul 2020 15:13
 Operator : JC/SP
 Sample : L3416-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20200720

Quant Time: Jul 24 05:56:51 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	574367	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	958534	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1003388	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	532931	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	377116	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
35) Dibromofluoromethane	5.47	113	319997	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
50) Toluene-d8	8.70	98	1195779	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	11.12	95	519632	56.14	ug/l	0.00
Spiked Amount			Recovery	=	112.28%	

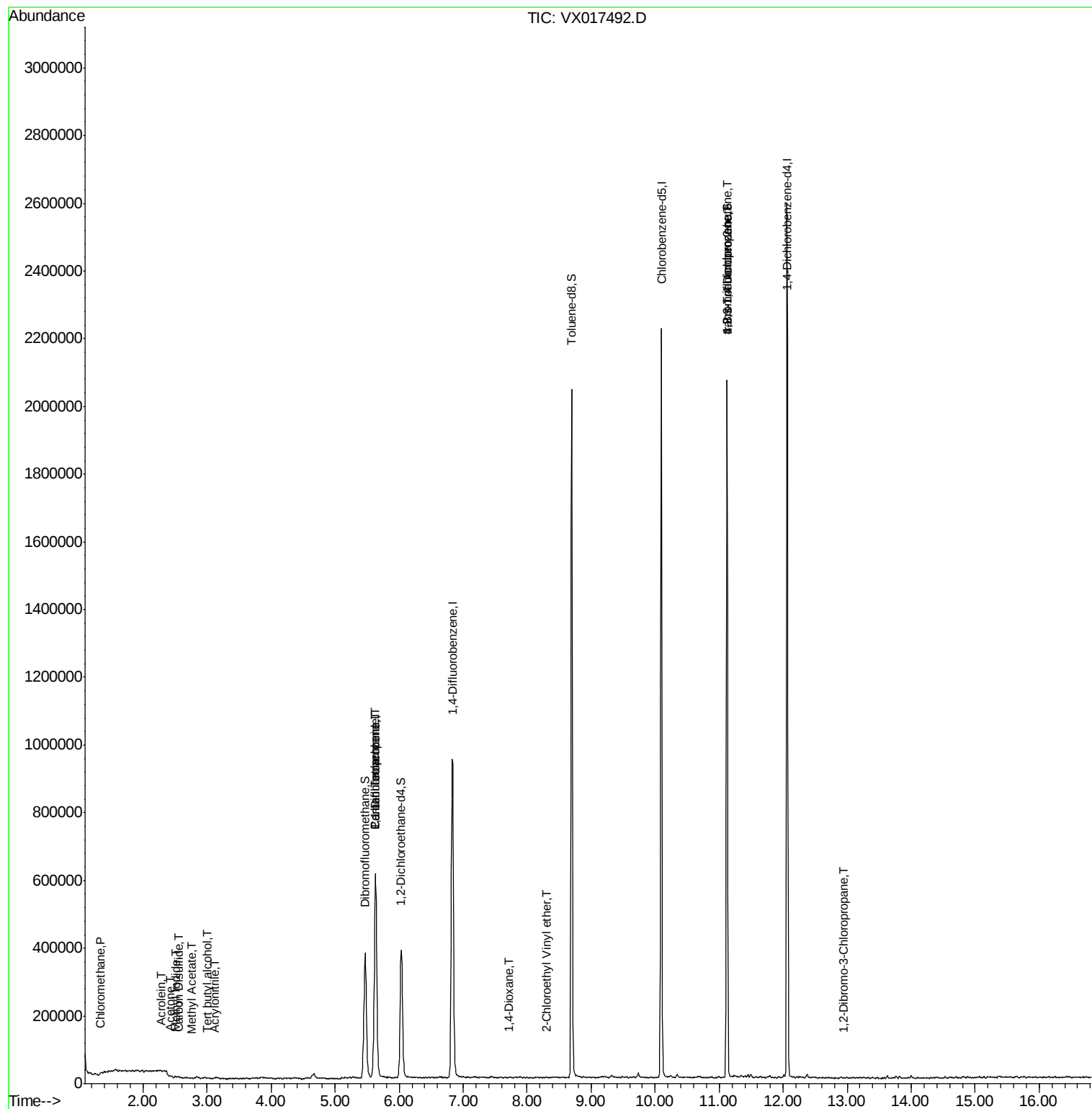
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	749	Below Cal		94
3) Chloromethane	1.32	50	1214	0.537 ug/l #		1
5) Bromomethane	1.64	94	1067	Below Cal #		40
6) Chloroethane	1.72	64	294	Below Cal #		31
8) Diethyl Ether	2.00	74	292	Below Cal		57
10) Methyl Iodide	2.51	142	1619	0.203 ug/l #		88
11) Tert butyl alcohol	3.00	59	574	0.369 ug/l #		21
13) Acrolein	2.28	56	951	4.936 ug/l		91
15) Acrylonitrile	3.13	53	1041	0.310 ug/l #		68
16) Acetone	2.42	43	1962	0.604 ug/l #		81
17) Carbon Disulfide	2.55	76	4902	0.272 ug/l		100
18) Methyl Acetate	2.75	43	1843	0.241 ug/l		93
20) Methylene Chloride	2.83	84	1627	Below Cal #		88
36) 1,1-Dichloropropene	5.64	75	41607	4.526 ug/l #		54
38) Carbon Tetrachloride	5.63	117	55472	4.969 ug/l #		19
49) 1,4-Dioxane	7.71	88	209	1.325 ug/l #		1
58) 2-Chloroethyl Vinyl ether	8.30	63	1208	0.216 ug/l		95
76) 1,2,3-Trichloropropane	11.12	75	260404	23.754 ug/l #		35
81) trans-1,4-Dichloro-2-buten	11.12	75	260404	59.854 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	12.94	75	53	2.592 ug/l		80

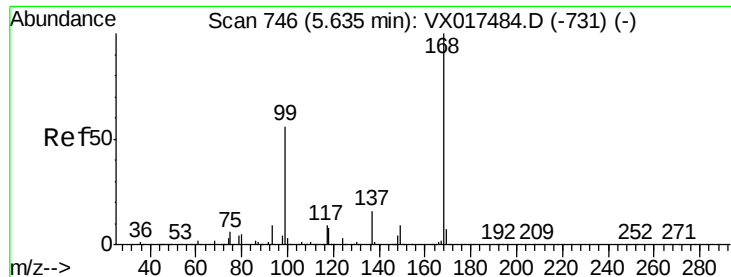
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072320\
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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: VX017492.D

Acq: 23 Jul 2020 15:13

Instrument :

MSVOA_X

ClientSampleId :

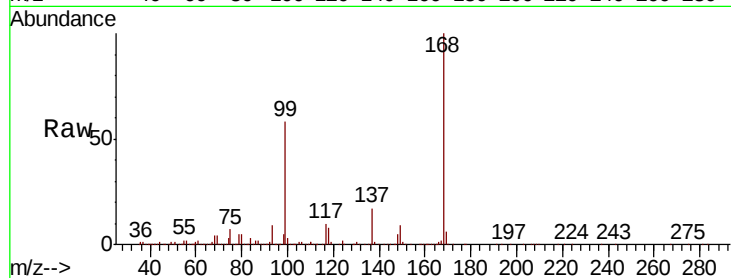
TB-20200720

Tot Ion:168 Resp: 574367

Ion Ratio Lower Upper

168 100

99 58.0 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

200000

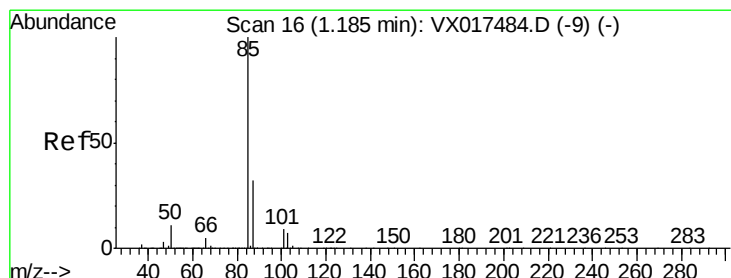
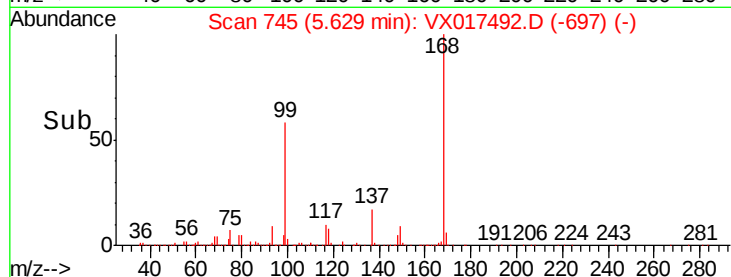
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017492.D

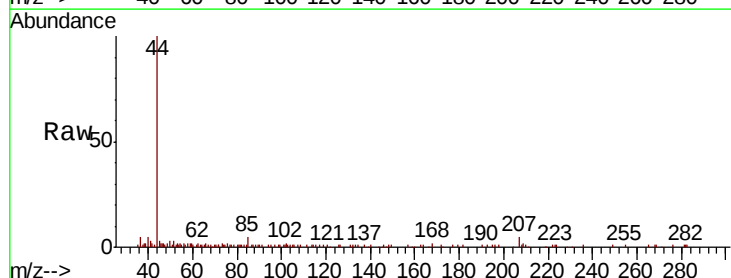
Acq: 23 Jul 2020 15:13

Tgt Ion: 85 Resp: 749

Ion Ratio Lower Upper

85 100

87 28.8 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

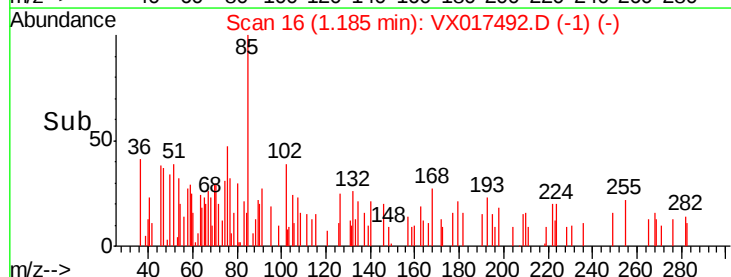
600

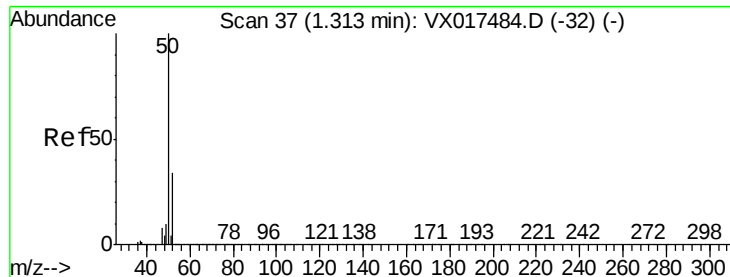
400

200

0

Time-->





#3

Chloromethane

Concen: 0.537 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

Instrument :

MSVOA_X

ClientSampled :

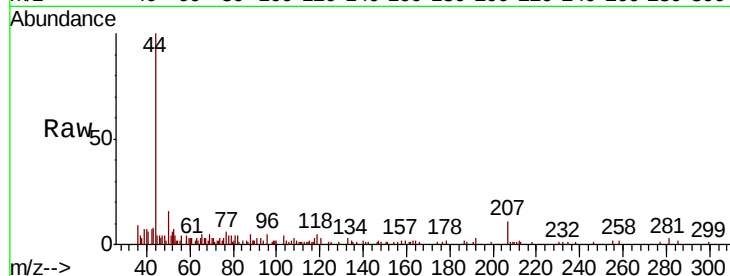
TB-20200720

Tot Ion: 50 Resp: 1214

Ion Ratio Lower Upper

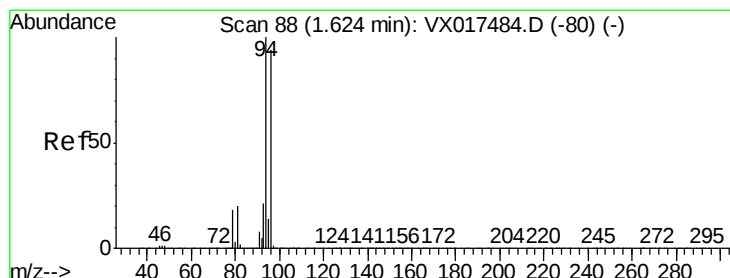
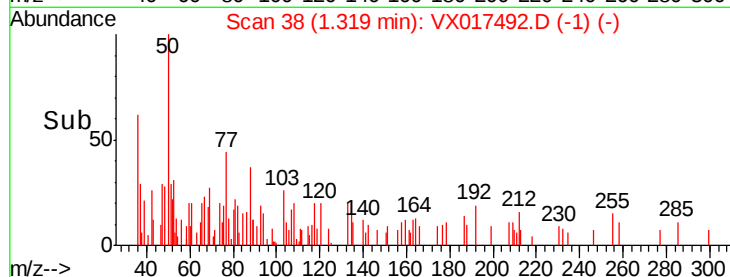
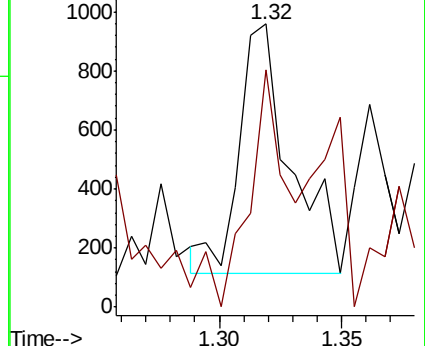
50 100

52 97.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017492.D

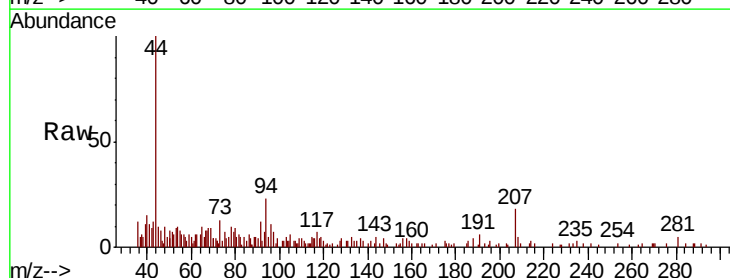
Acq: 23 Jul 2020 15:13

Tgt Ion: 94 Resp: 1067

Ion Ratio Lower Upper

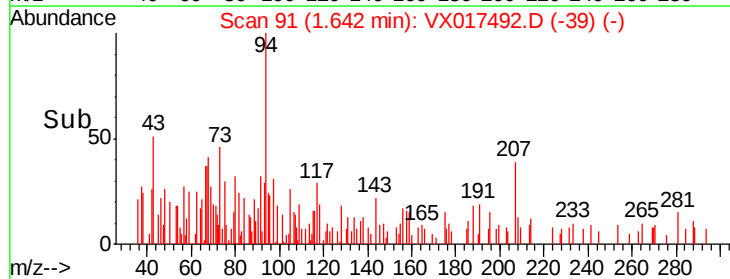
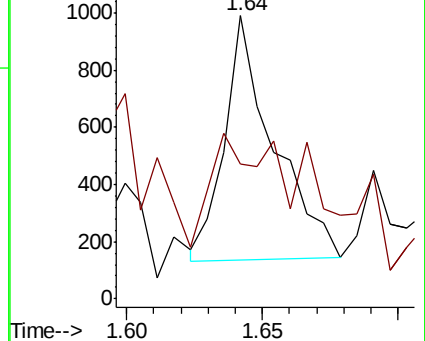
94 100

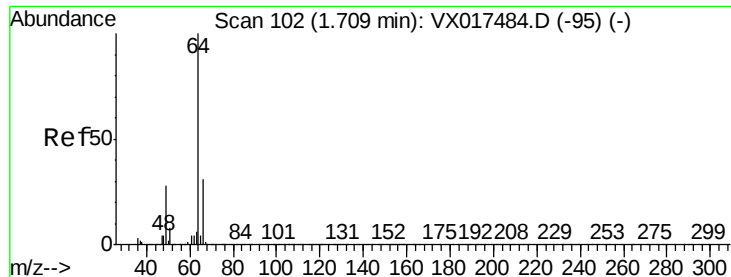
96 34.7 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

Instrument :

MSVOA_X

ClientSampled :

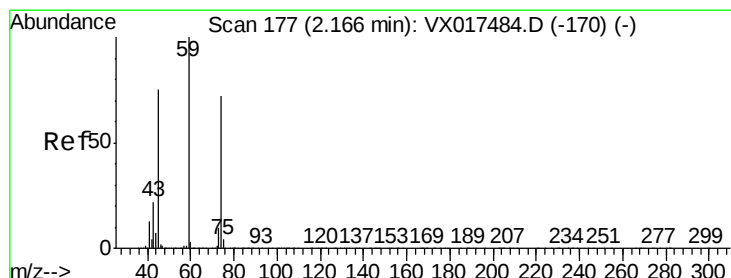
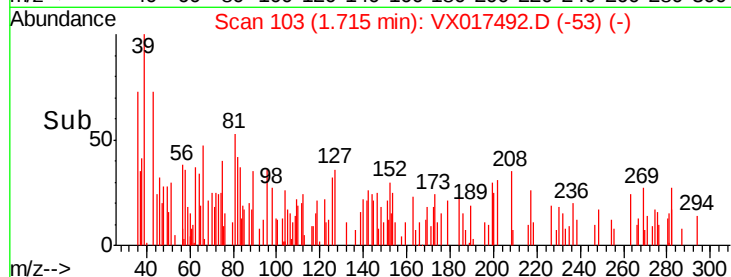
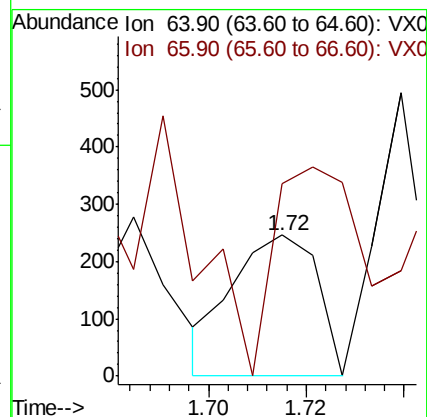
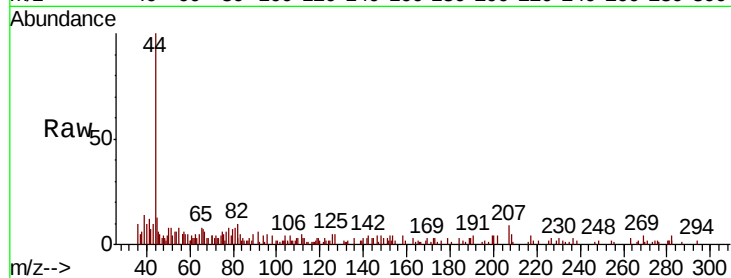
TB-20200720

Tot Ion: 64 Resp: 294

Ion Ratio Lower Upper

64 100

66 69.1 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.00 min Scan# 149

Delta R.T. -0.17 min

Lab File: VX017492.D

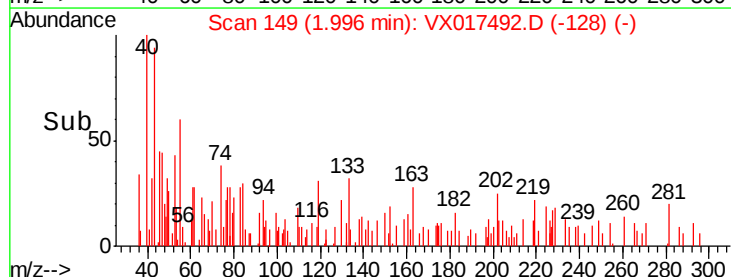
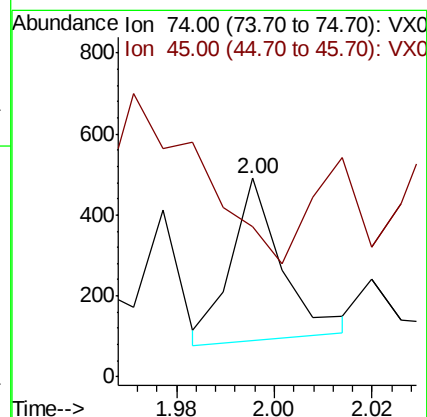
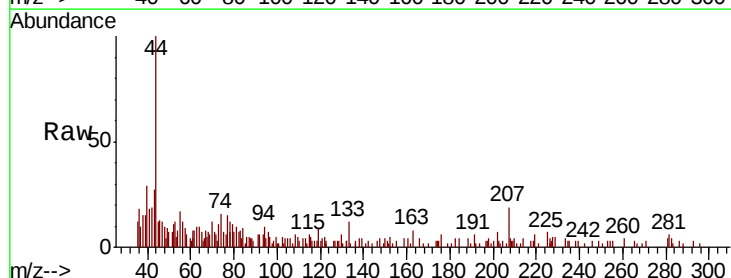
Acq: 23 Jul 2020 15:13

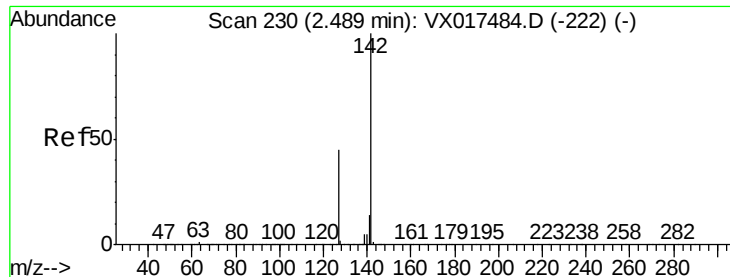
Tgt Ion: 74 Resp: 292

Ion Ratio Lower Upper

74 100

45 58.6 50.8 152.5

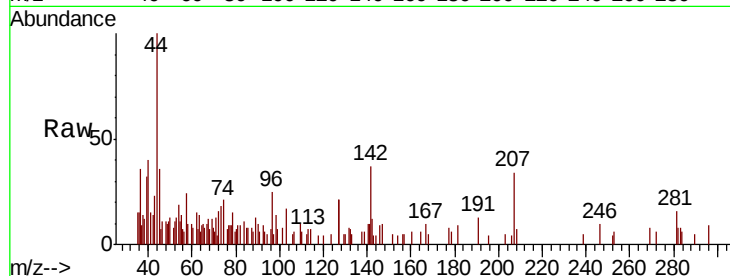




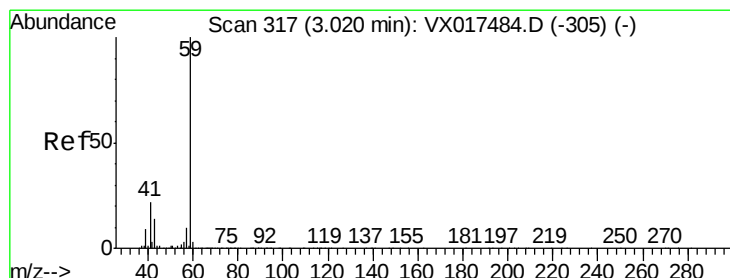
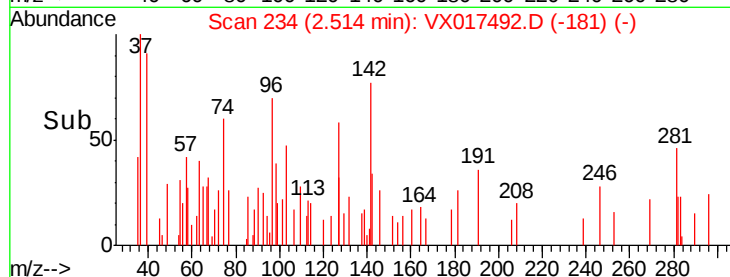
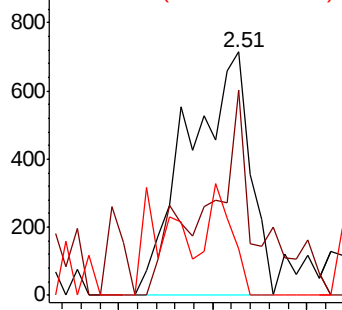
#10
Methyl Iodide
Concen: 0.203 ug/l
RT: 2.51 min Scan# 234
Delta R.T. 0.02 min
Lab File: VX017492.D
Acq: 23 Jul 2020 15:13

Instrument :
MSVOA_X
ClientSampled :
TB-20200720

Tot Ion:142 Resp: 1619
Ion Ratio Lower Upper
142 100
127 53.4 35.9 53.9
141 18.6 11.4 17.0#

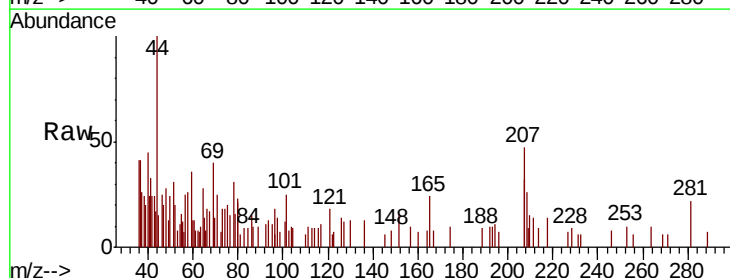


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

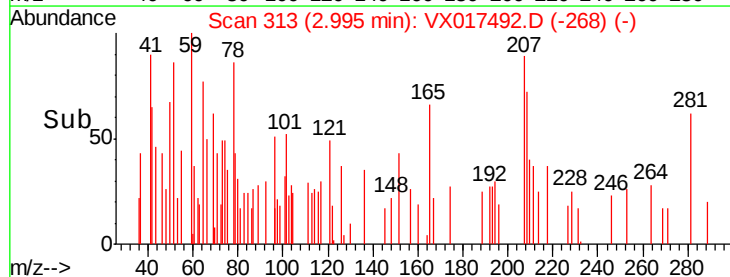
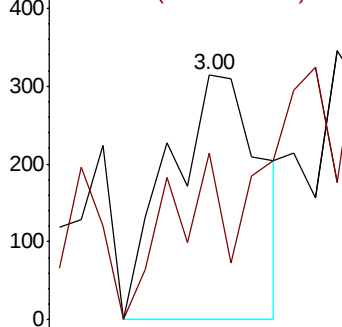


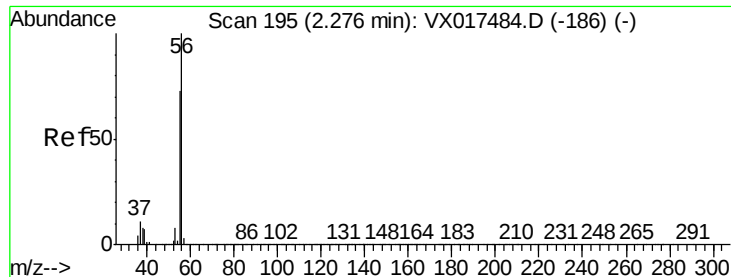
#11
Tert butyl alcohol
Concen: 0.369 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX017492.D
Acq: 23 Jul 2020 15:13

Tgt Ion: 59 Resp: 574
Ion Ratio Lower Upper
59 100
57 40.4 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 4.936 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

Instrument :

MSVOA_X

ClientSampled :

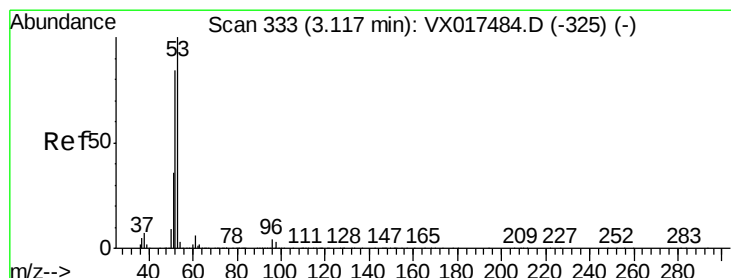
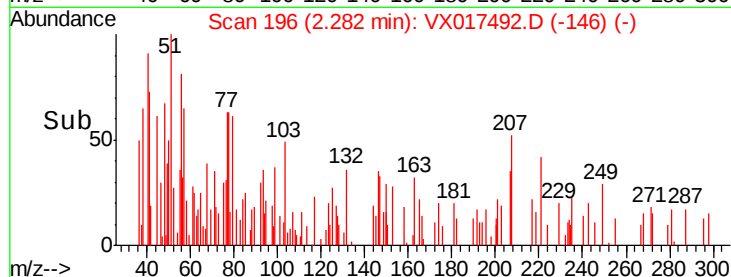
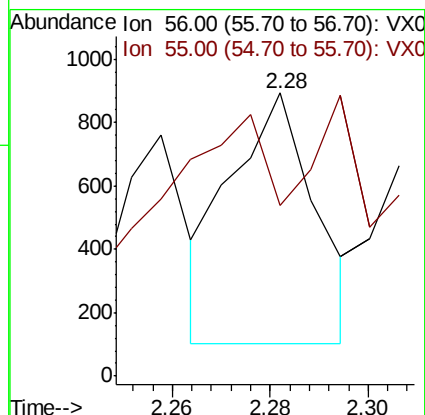
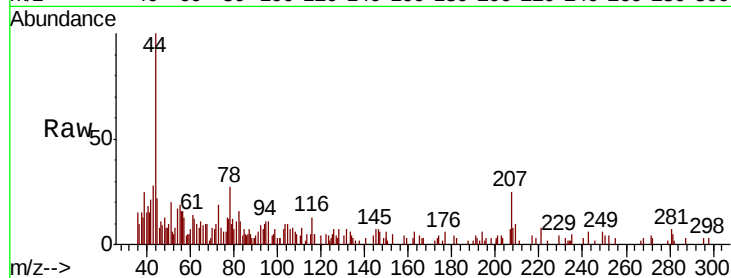
TB-20200720

Tot Ion: 56 Resp: 951

Ion Ratio Lower Upper

56 100

55 64.7 57.4 86.2



#15

Acrylonitrile

Concen: 0.310 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

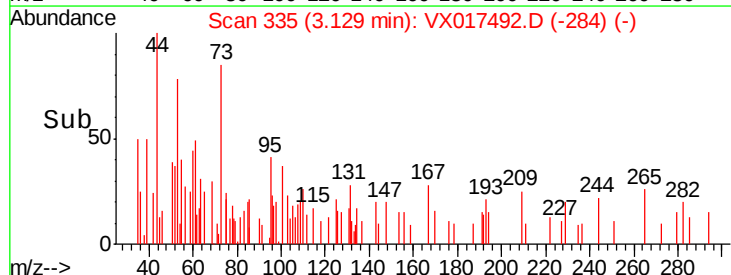
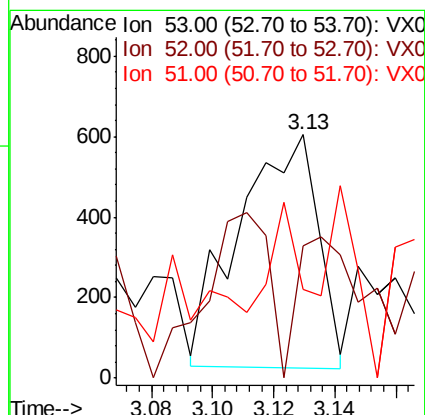
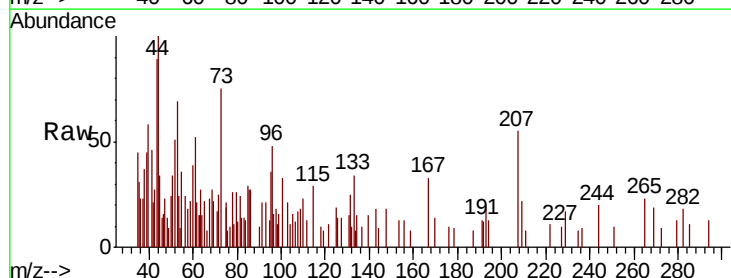
Tgt Ion: 53 Resp: 1041

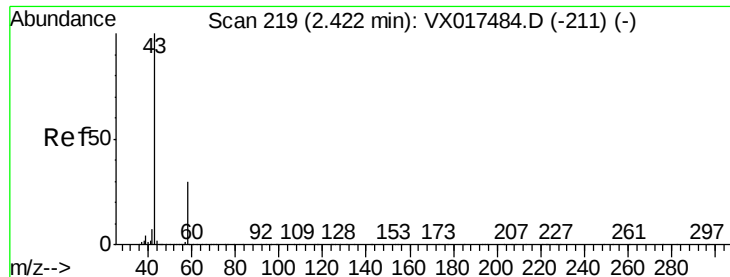
Ion Ratio Lower Upper

53 100

52 52.9 66.6 99.8#

51 20.0 29.4 44.2#

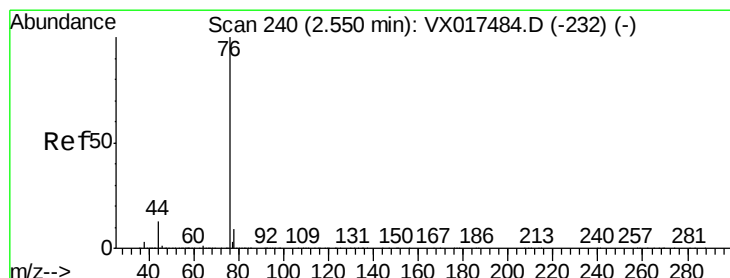
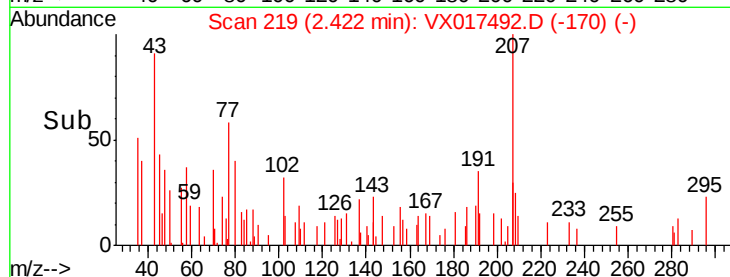
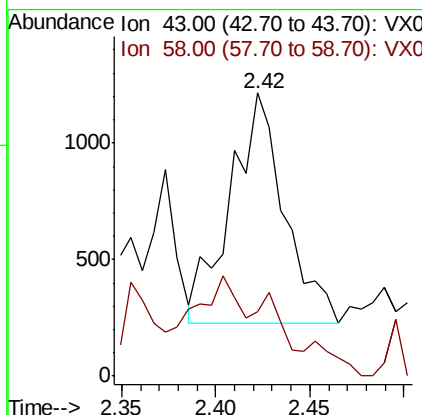
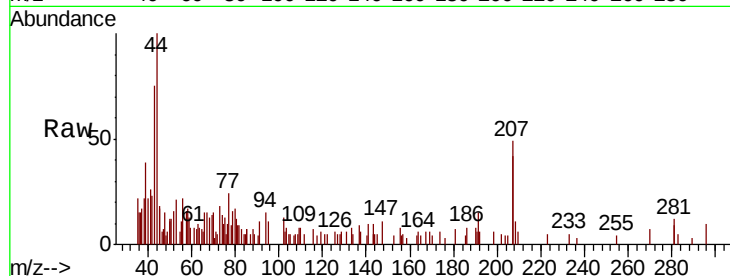




#16
Acetone
Concen: 0.604 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017492.D
Acq: 23 Jul 2020 15:13

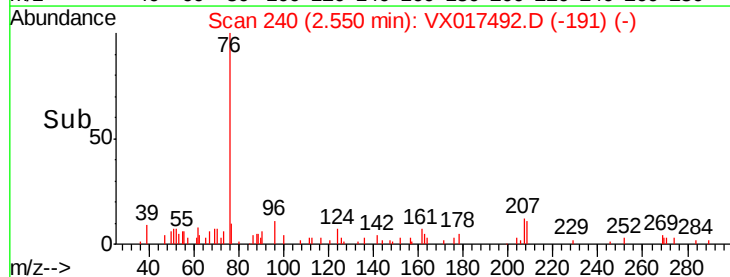
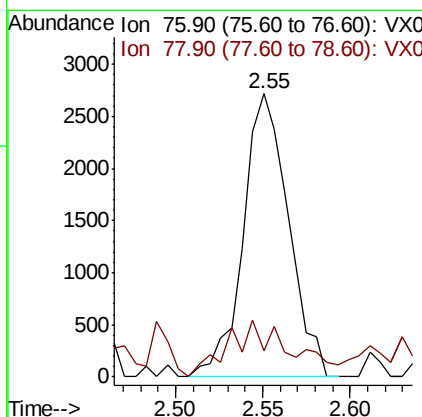
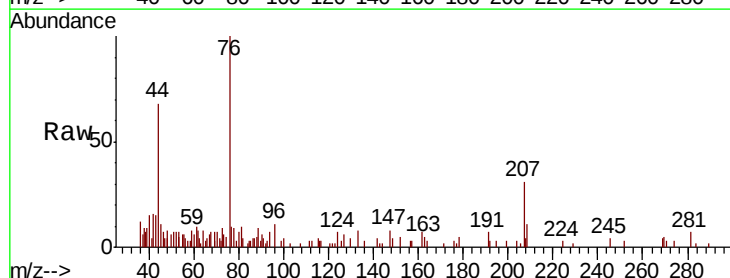
Instrument :
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ClientSampled :
TB-20200720

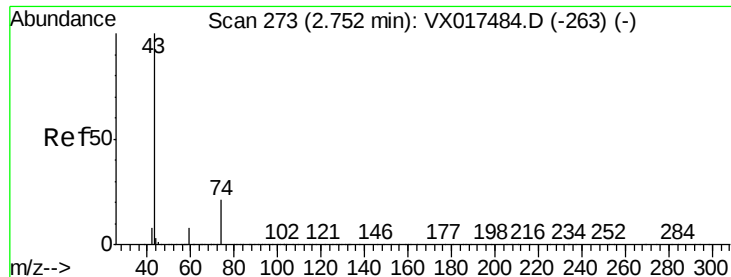
Tot Ion: 43 Resp: 1962
Ion Ratio Lower Upper
43 100
58 19.9 24.2 36.4#



#17
Carbon Disulfide
Concen: 0.272 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX017492.D
Acq: 23 Jul 2020 15:13

Tgt Ion: 76 Resp: 4902
Ion Ratio Lower Upper
76 100
78 9.4 7.5 11.3

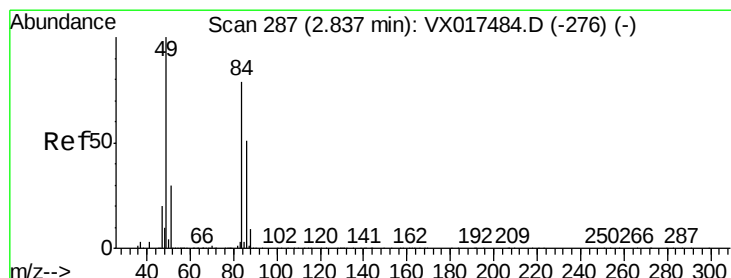
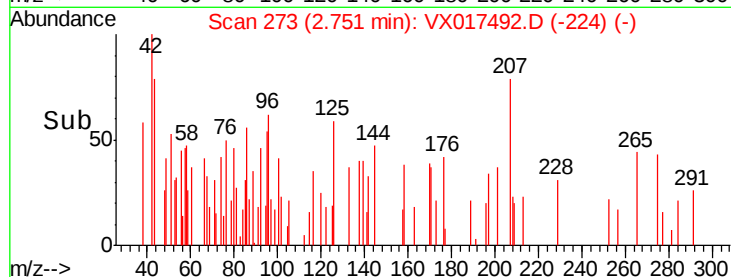
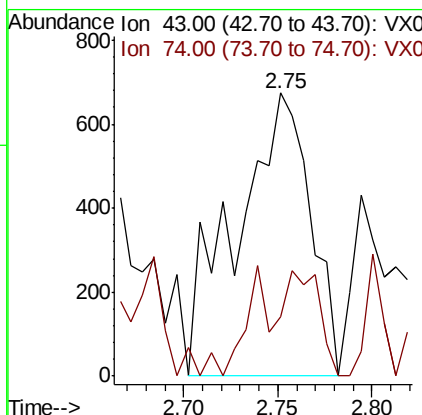
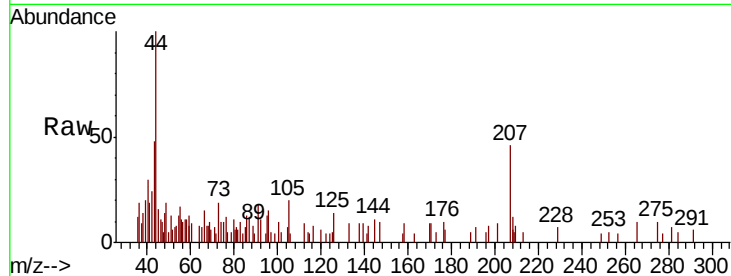




#18
Methyl Acetate
Concen: 0.241 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX017492.D
Acq: 23 Jul 2020 15:13

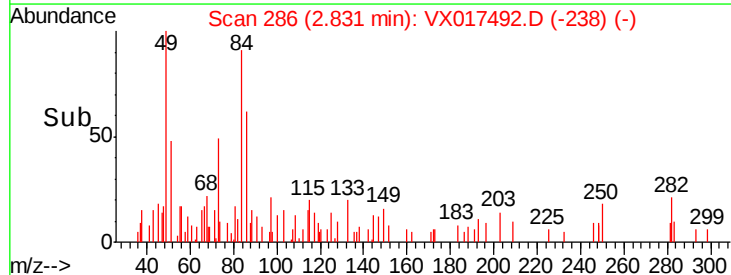
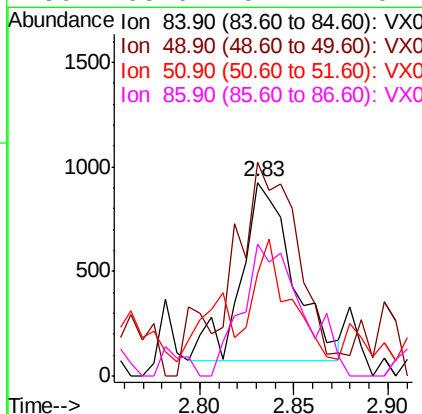
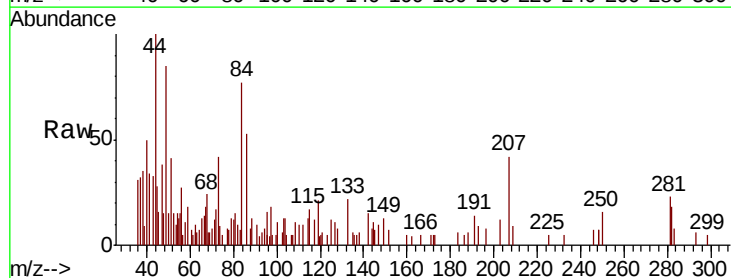
Instrument :
MSVOA_X
ClientSampled :
TB-20200720

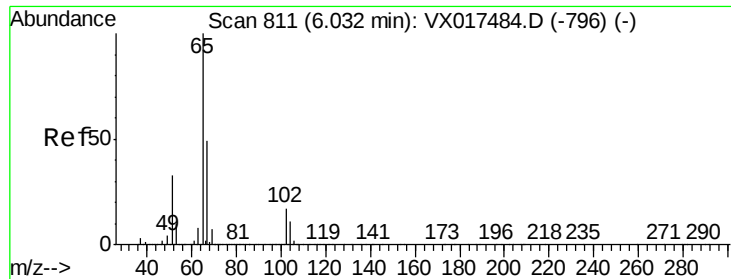
Tot Ion: 43 Resp: 1843
Ion Ratio Lower Upper
43 100
74 18.4 17.5 26.3



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017492.D
Acq: 23 Jul 2020 15:13

Tgt Ion: 84 Resp: 1627
Ion Ratio Lower Upper
84 100
49 107.4 100.3 150.5
51 48.4 30.5 45.7#
86 63.6 51.1 76.7

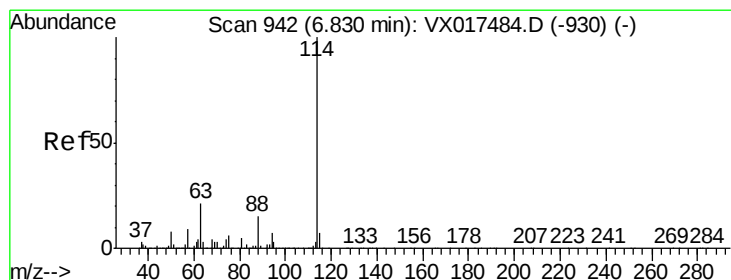
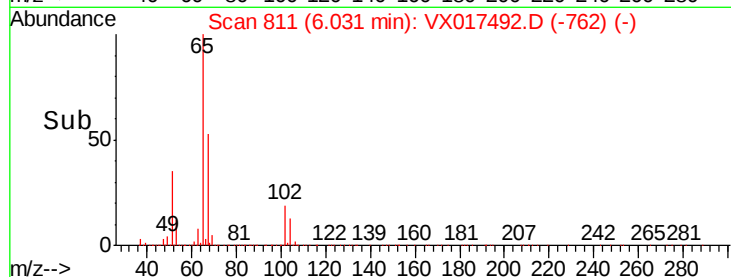
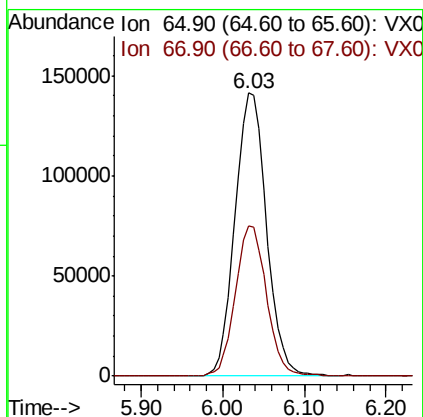
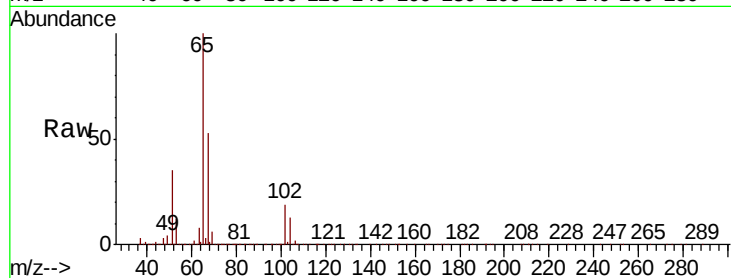




#33
 1,2-Dichloroethane-d4
 Concen: 51.114 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017492.D
 Acq: 23 Jul 2020 15:13

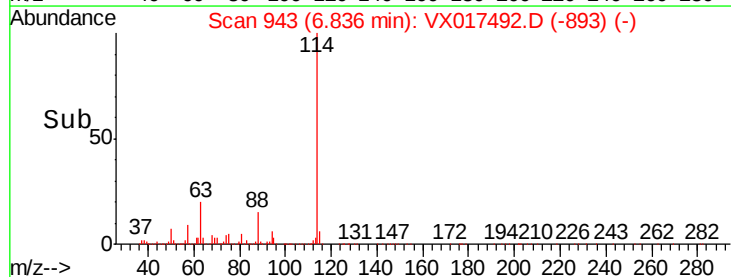
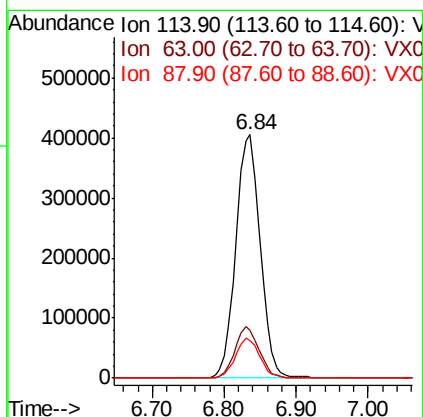
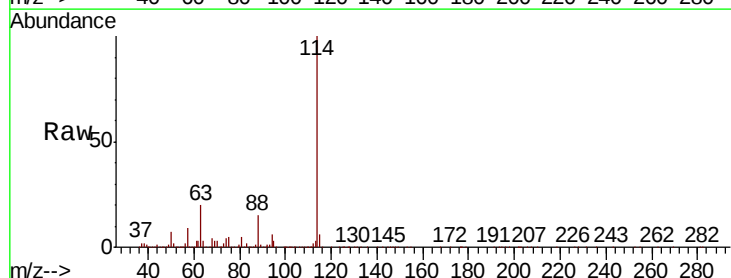
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20200720

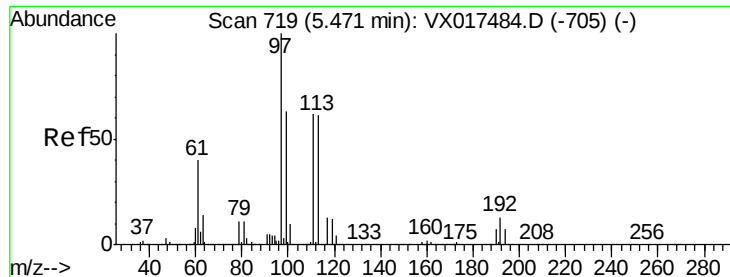
Tot Ion: 65 Resp: 377116
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017492.D
 Acq: 23 Jul 2020 15:13

Tgt Ion: 114 Resp: 958534
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.6
 88 15.4 0.0 33.4

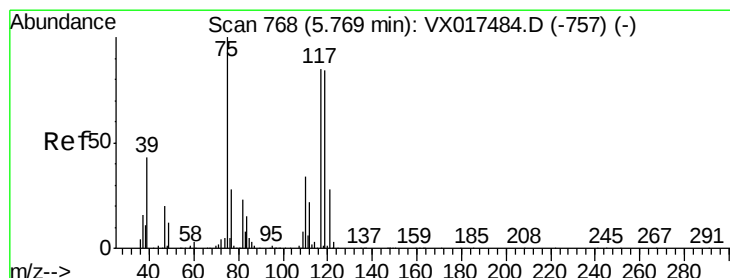
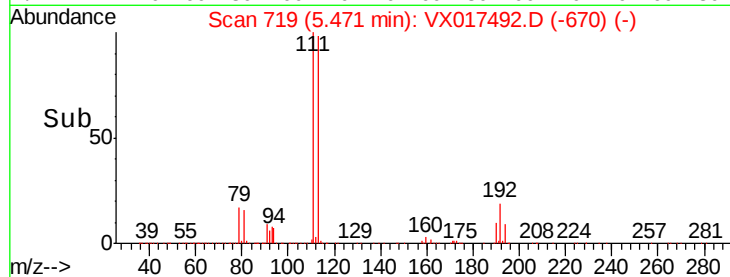
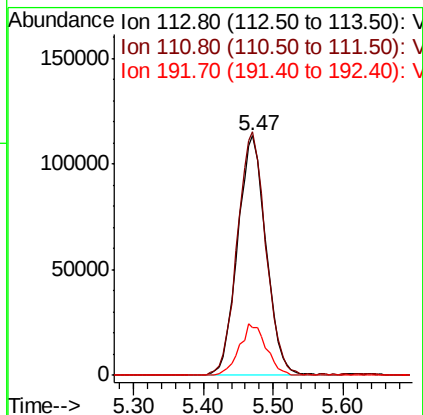
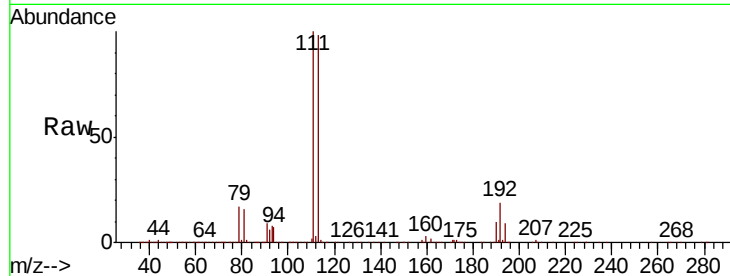




#35
 Dibromofluoromethane
 Concen: 49.916 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017492.D
 Acq: 23 Jul 2020 15:13

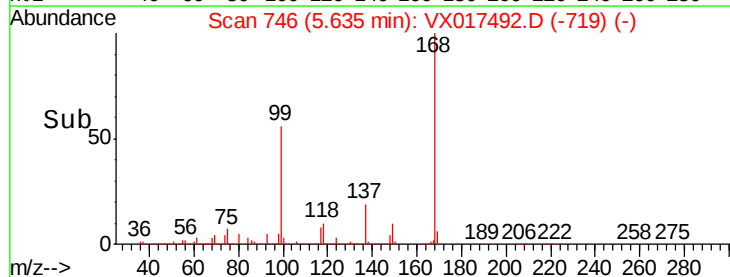
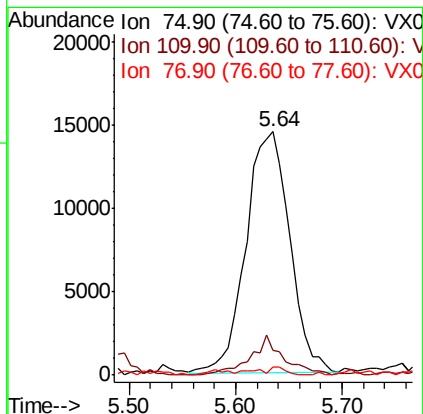
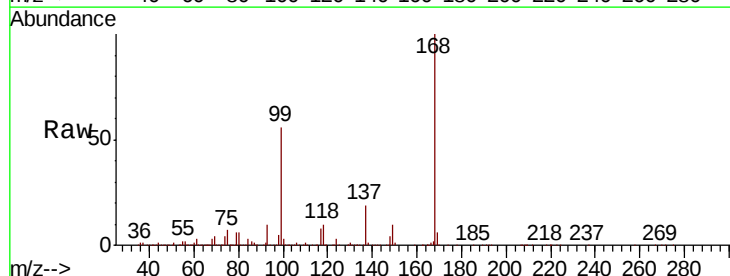
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-20200720

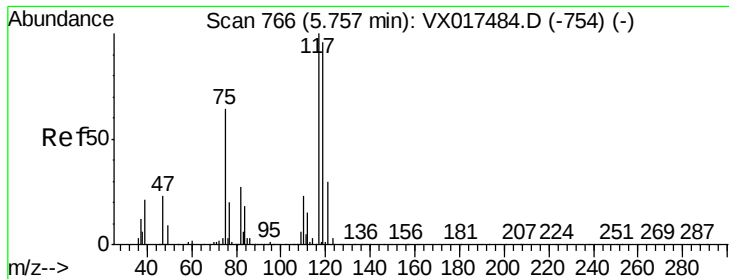
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	80.7	121.1
192	20.5	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 4.526 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017492.D
 Acq: 23 Jul 2020 15:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.6	18.1	54.3#
77	1.3	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 4.969 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

Instrument :

MSVOA_X

ClientSampled :

TB-20200720

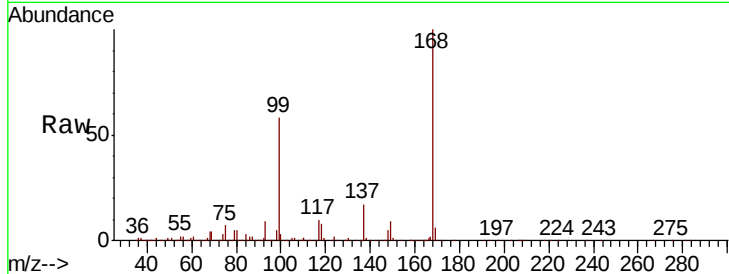
Tot Ion:117 Resp: 55472

Ion Ratio Lower Upper

117 100

119 8.6 75.4 113.0#

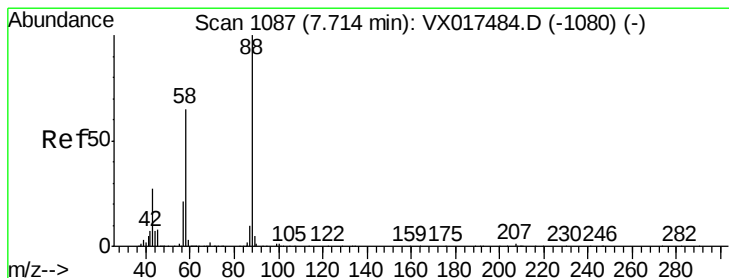
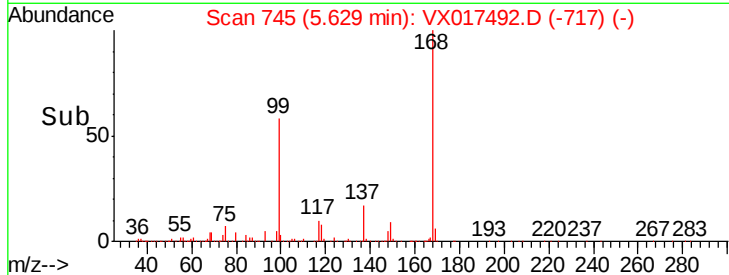
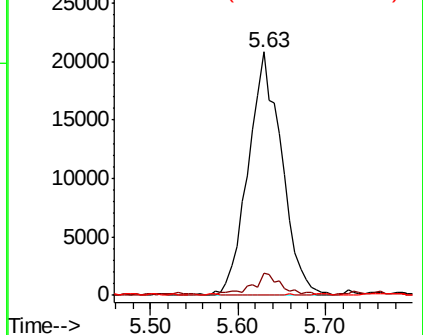
121 0.0 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 1.325 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

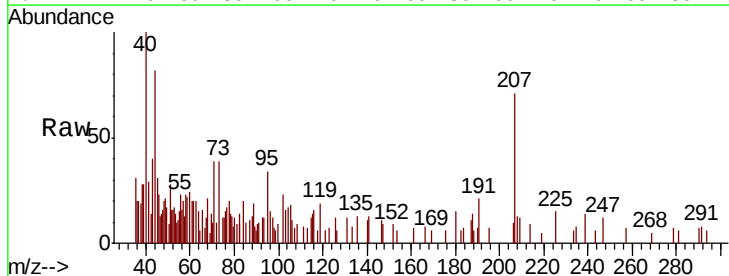
Tgt Ion: 88 Resp: 209

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

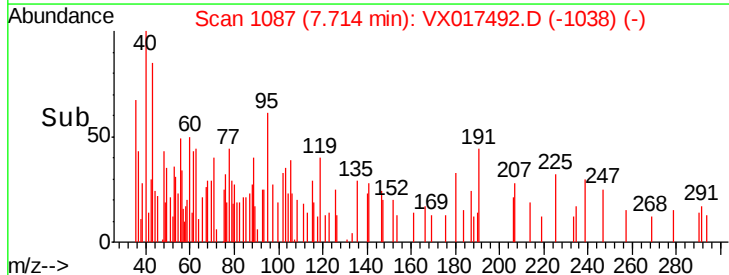
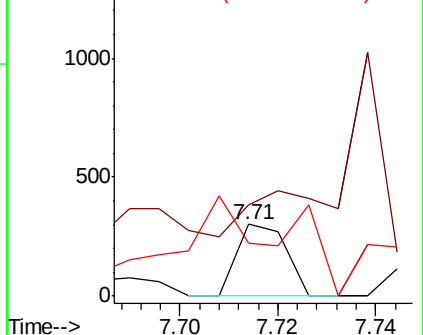
58 323.9 58.3 87.5#

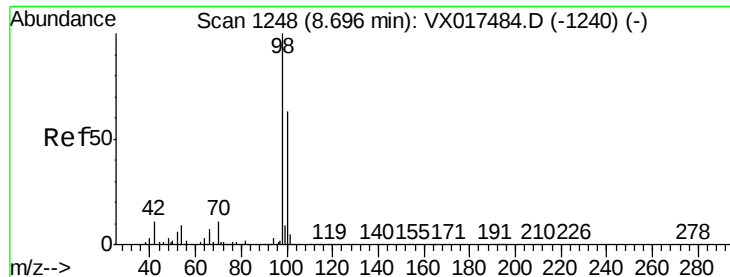


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.706 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

Instrument :

MSVOA_X

ClientSampleId :

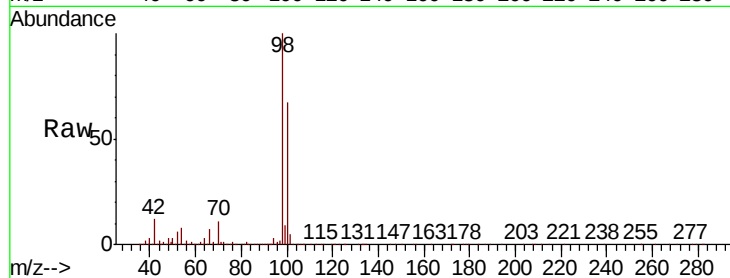
TB-20200720

Tot Ion: 98 Resp: 1195779

Ion Ratio Lower Upper

98 100

100 64.7 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

800000

600000

400000

200000

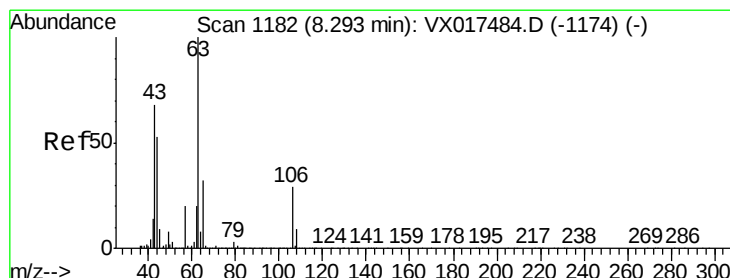
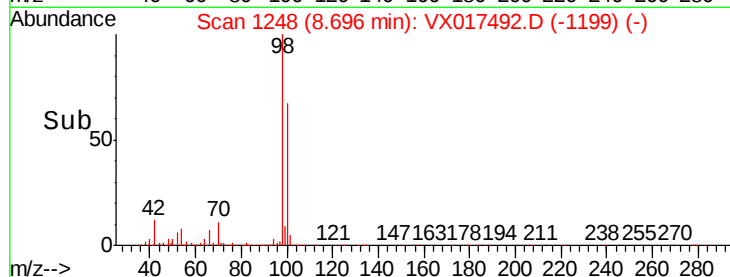
0

Time-->

8.60

8.70

8.80



#58

2-Chloroethyl Vinyl ether

Concen: 0.216 ug/l

RT: 8.30 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VX017492.D

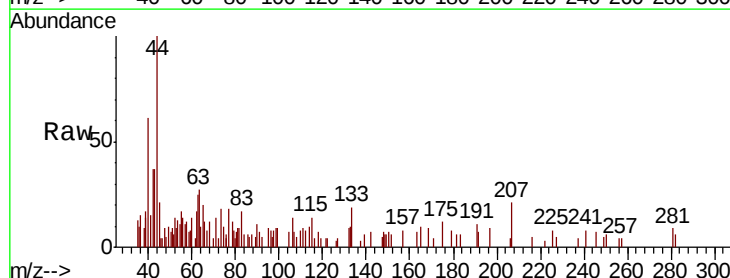
Acq: 23 Jul 2020 15:13

Tgt Ion: 63 Resp: 1208

Ion Ratio Lower Upper

63 100

106 30.9 22.6 34.0



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.30

800

600

400

200

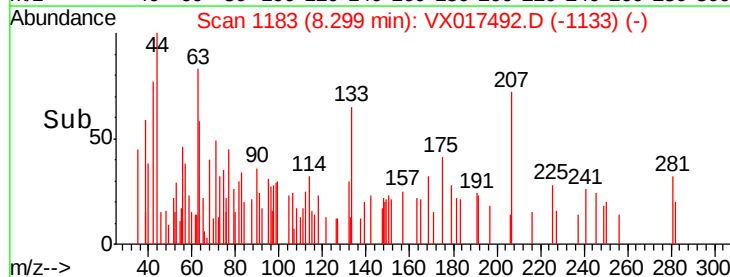
0

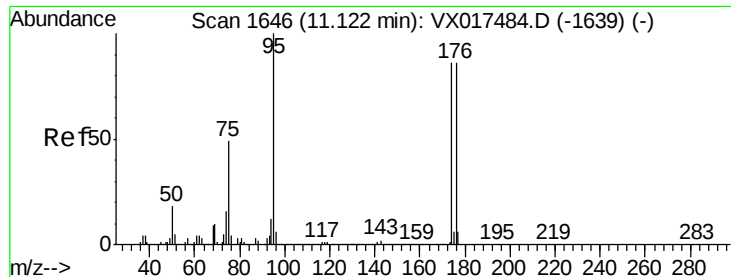
Time-->

8.25

8.30

8.35





#62

4-Bromofluorobenzene

Concen: 56.144 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

Instrument :

MSVOA_X

ClientSampled :

TB-20200720

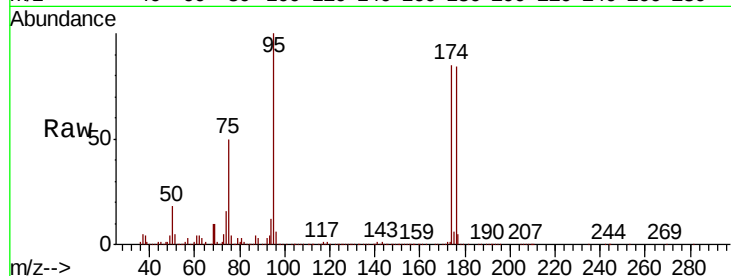
Tot Ion: 95 Resp: 519632

Ion Ratio Lower Upper

95 100

174 81.9 0.0 169.0

176 79.8 0.0 161.0



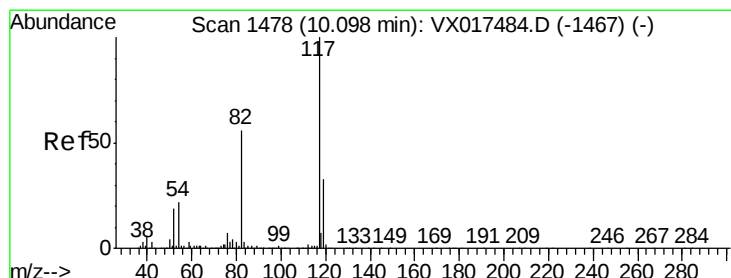
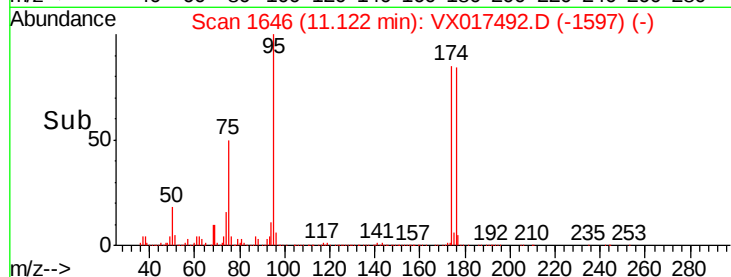
Abundance Ion 94.90 (94.60 to 95.60): VX017484.D (-1639) (-)

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

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

11.12

Time--> 11.00 11.10 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

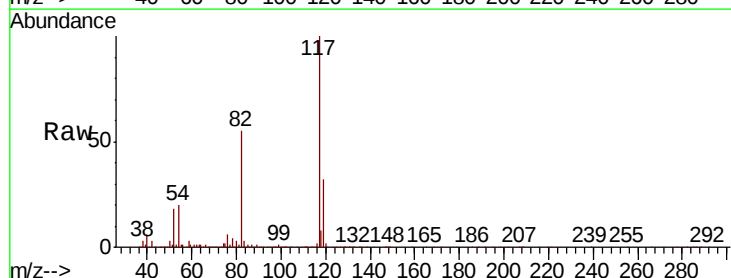
Tgt Ion: 117 Resp: 1003388

Ion Ratio Lower Upper

117 100

82 54.5 44.0 66.0

119 32.3 25.4 38.0



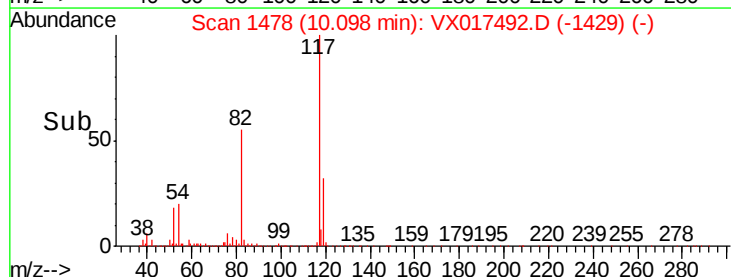
Abundance Ion 116.90 (116.60 to 117.60): VX017484.D (-1467) (-)

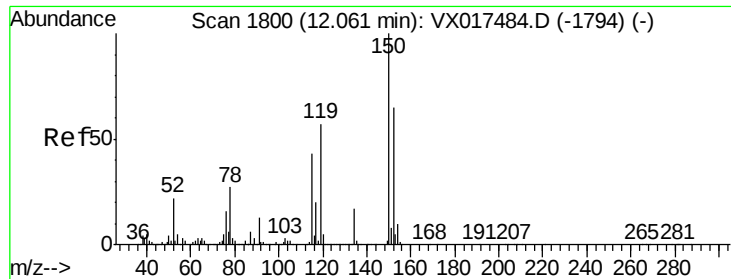
Ion 82.00 (81.70 to 82.70): VX017484.D (-1467) (-)

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

10.10

Time--> 10.00 10.10





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

Instrument :

MSVOA_X

ClientSampleId :

TB-20200720

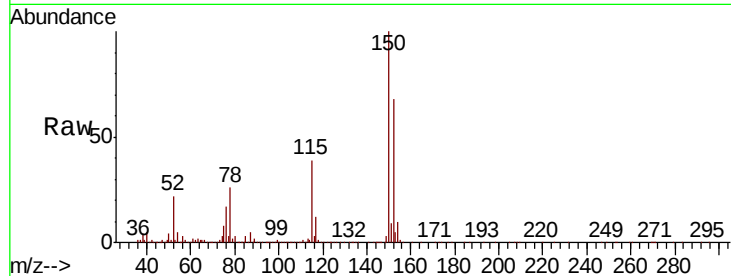
Tot Ion:152 Resp: 532931

Ion Ratio Lower Upper

152 100

115 58.2 65.5 196.6#

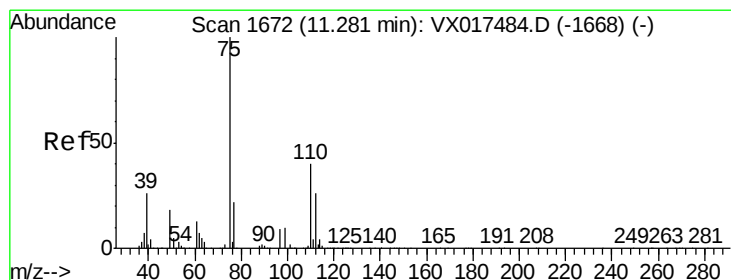
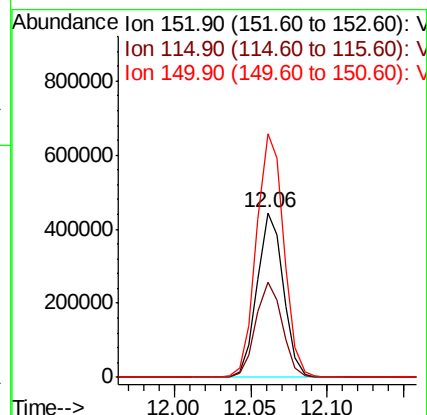
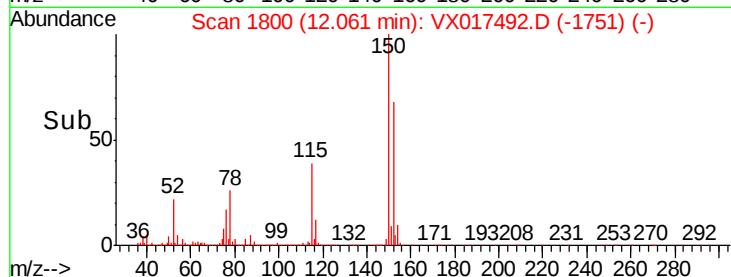
150 153.6 0.0 412.6



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: 23.754 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017492.D

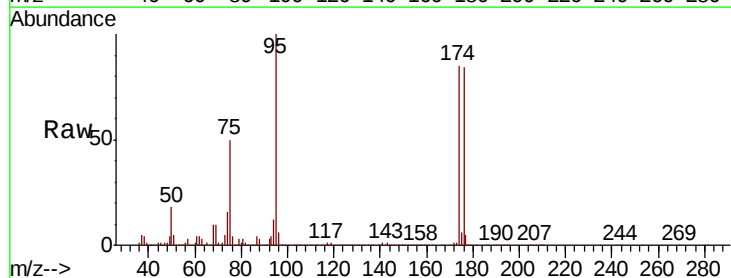
Acq: 23 Jul 2020 15:13

Tgt Ion: 75 Resp: 260404

Ion Ratio Lower Upper

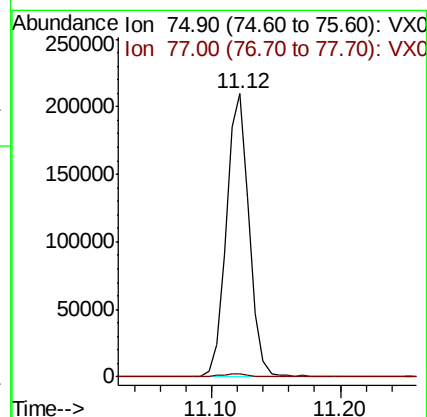
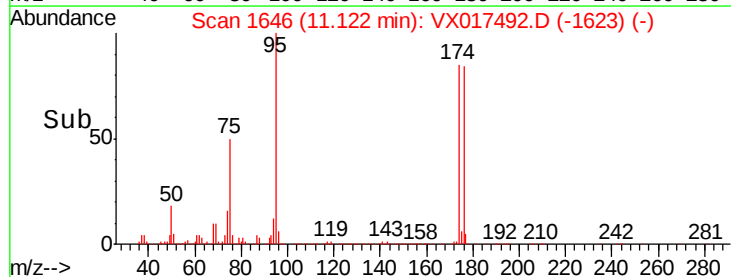
75 100

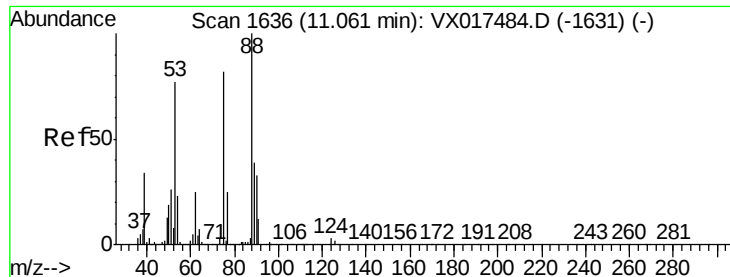
77 1.6 21.8 65.3#



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: 59.854 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

Instrument :

MSVOA_X

ClientSampled :

TB-20200720

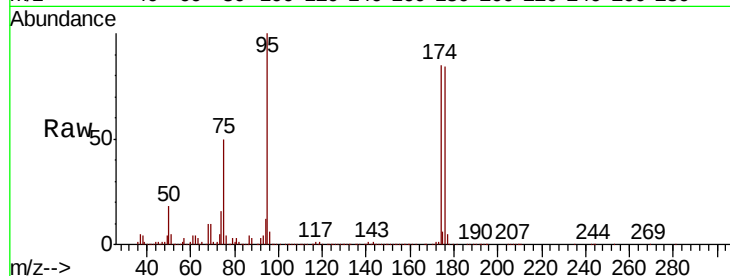
Tot Ion: 75 Resp: 260404

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

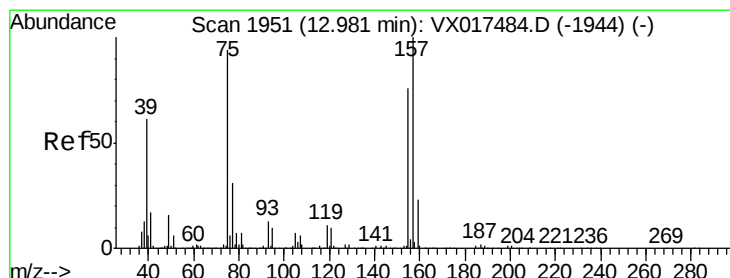
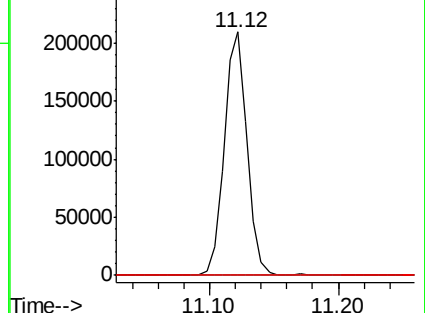
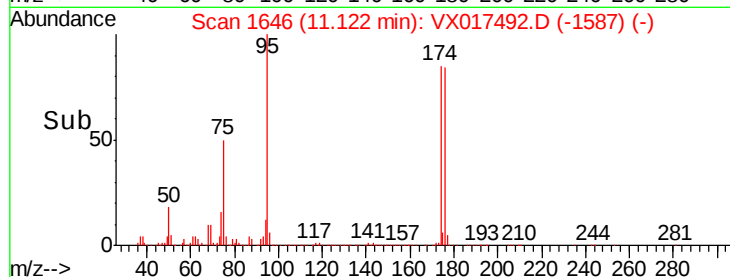
89 0.1 37.8 56.6#



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: 2.592 ug/l

RT: 12.94 min Scan# 1944

Delta R.T. -0.04 min

Lab File: VX017492.D

Acq: 23 Jul 2020 15:13

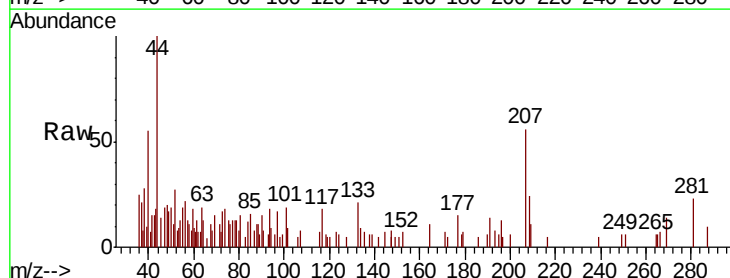
Tgt Ion: 75 Resp: 53

Ion Ratio Lower Upper

75 100

155 45.3 42.3 126.8

157 105.7 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

