

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073120\
 Data File : VX017738.D
 Acq On : 01 Aug 2020 06:19
 Operator : JC/SP
 Sample : L3518-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-4

Quant Time: Aug 01 07:11:25 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	448012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	771831	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	841488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	464920	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	323029	56.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.26%	
35) Dibromofluoromethane	5.47	113	272257	52.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.48%	
50) Toluene-d8	8.70	98	980893	52.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.34%	
62) 4-Bromofluorobenzene	11.12	95	433845	58.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.42%	

Target Compounds

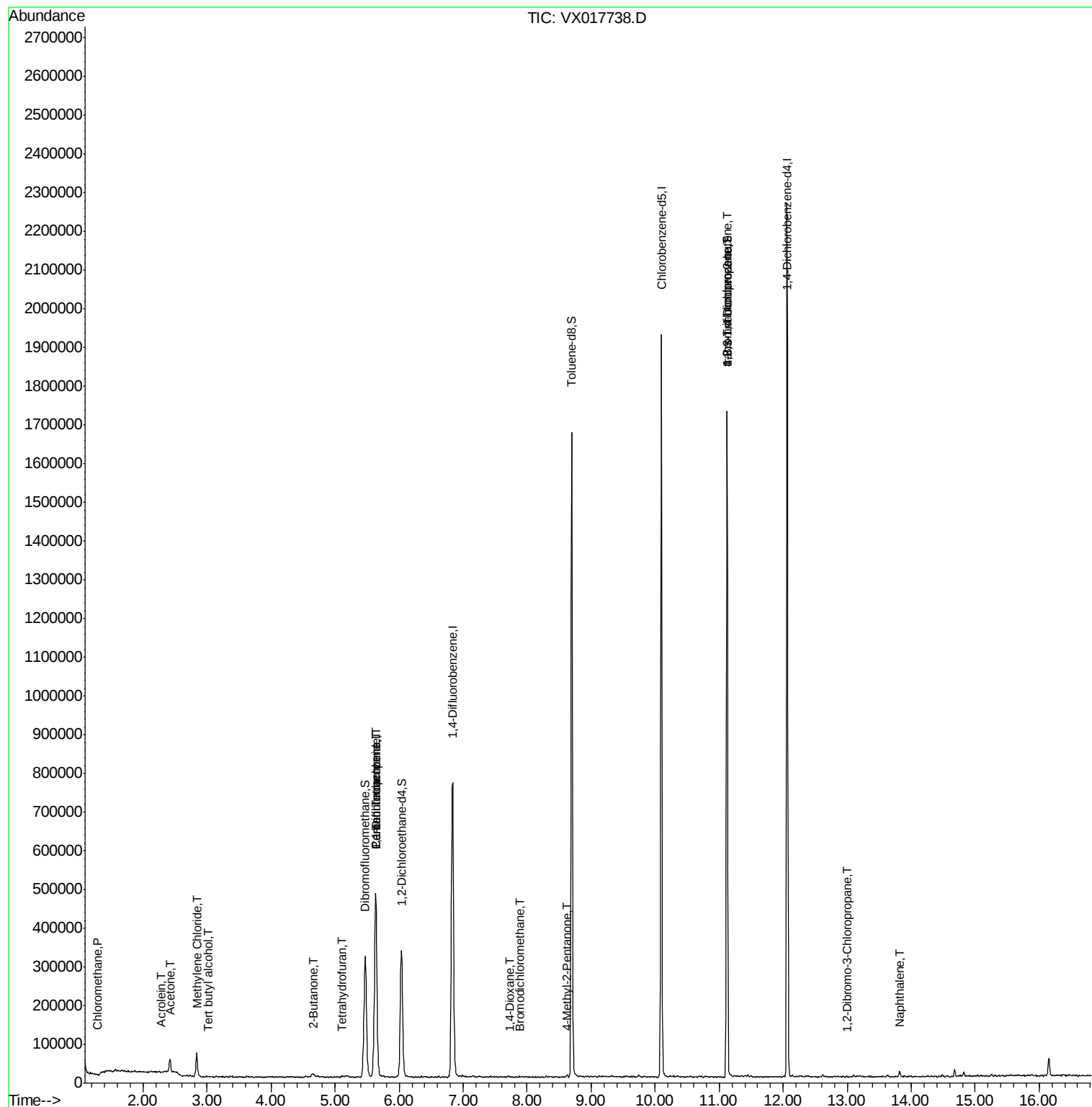
					Qvalue
2) Dichlorodifluoromethane	1.18	85	89	Below Cal	# 14
3) Chloromethane	1.29	50	386	0.436	ug/l 99
5) Bromomethane	1.61	94	412	Below Cal	# 78
6) Chloroethane	1.71	64	343	Below Cal	92
8) Diethyl Ether	2.16	74	1081	Below Cal	83
11) Tert butyl alcohol	3.01	59	440	0.363	ug/l # 72
13) Acrolein	2.28	56	121	4.277	ug/l # 1
16) Acetone	2.42	43	36060	14.236	ug/l 99
20) Methylene Chloride	2.84	84	27376	4.572	ug/l 94
25) 2-Butanone	4.66	43	8554	2.377	ug/l # 88
29) Tetrahydrofuran	5.12	42	2083	0.935	ug/l # 73
36) 1,1-Dichloropropene	5.63	75	34031	4.597	ug/l # 48
38) Carbon Tetrachloride	5.63	117	46698	5.195	ug/l # 17
47) Bromodichloromethane	7.88	83	1768	0.211	ug/l # 85
49) 1,4-Dioxane	7.72	88	290	2.283	ug/l # 25
51) 4-Methyl-2-Pentanone	8.62	43	3334	0.418	ug/l # 81
76) 1,2,3-Trichloropropane	11.12	75	219302	22.931	ug/l # 34
81) trans-1,4-Dichloro-2-buten	11.12	75	219302	57.781	ug/l # 12
92) 1,2-Dibromo-3-Chloropropan	13.01	75	79	2.603	ug/l 76
95) Naphthalene	13.82	128	8498	0.277	ug/l # 91

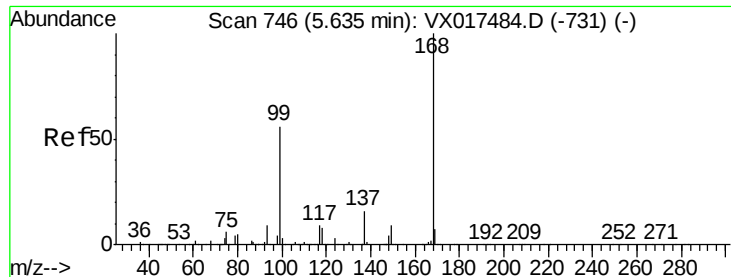
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampled :
TP-4

Quant Time: Aug 01 07:11:25 2020
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# 746

Delta R.T. -0.00 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

Instrument :

MSVOA_X

ClientSampled :

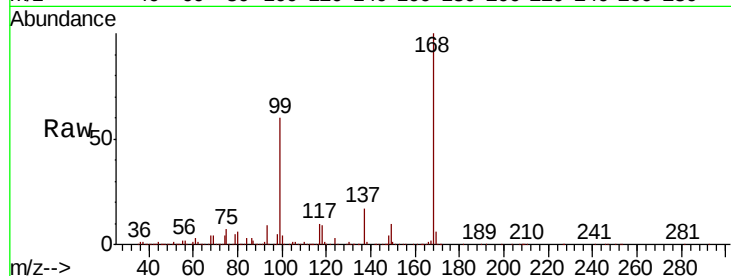
TP-4

Tot Ion:168 Resp: 448012

Ion Ratio Lower Upper

168 100

99 60.1 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

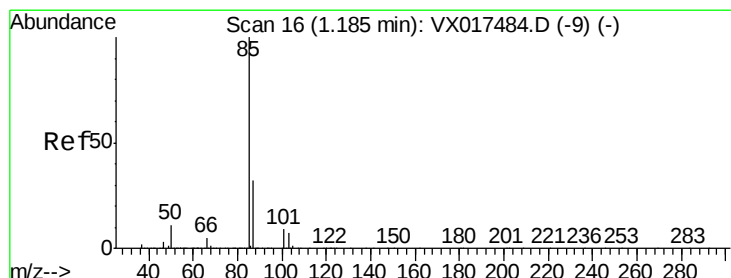
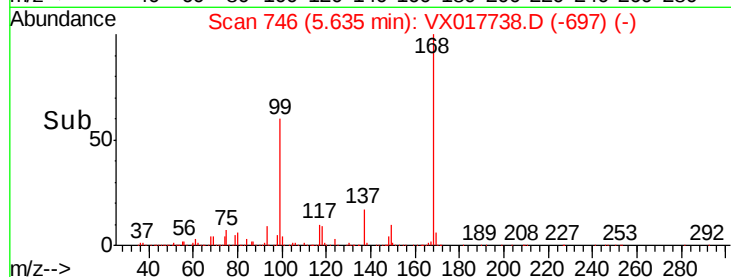
100000

50000

0

Time-->

5.50 5.60 5.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017738.D

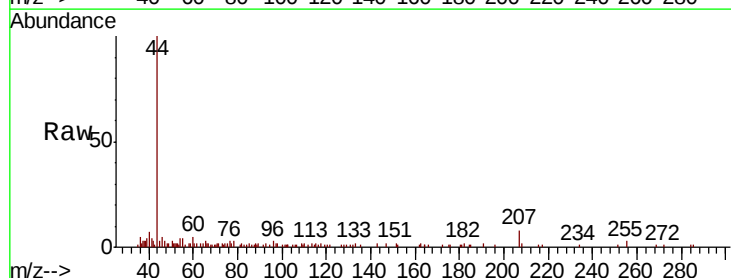
Acq: 01 Aug 2020 06:19

Tgt Ion: 85 Resp: 89

Ion Ratio Lower Upper

85 100

87 80.5 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

200

150

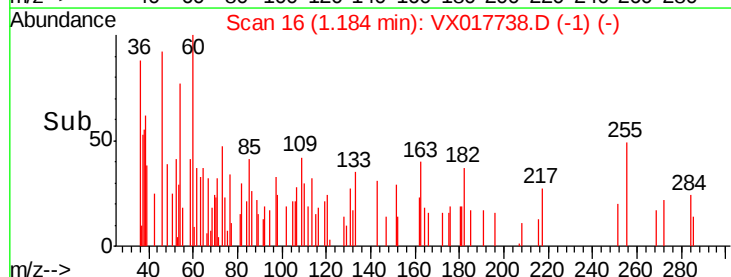
100

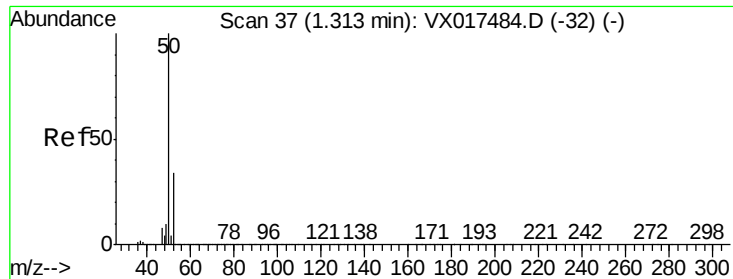
50

0

Time-->

1.16 1.17 1.18 1.19 1.20

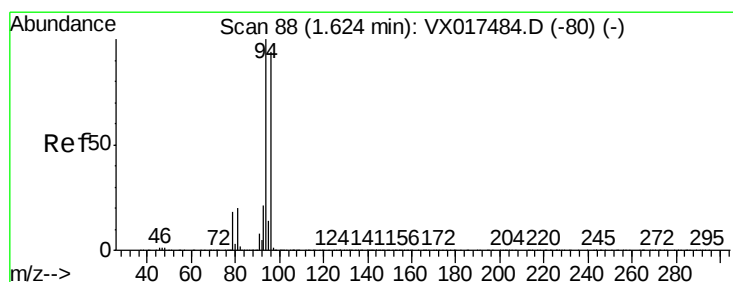
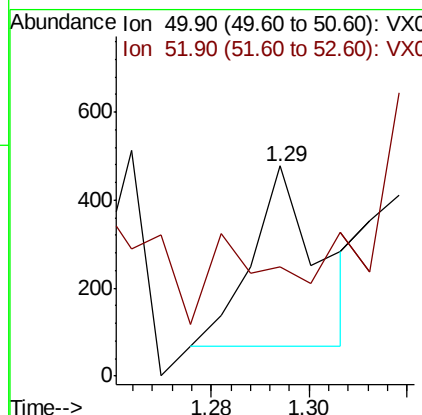
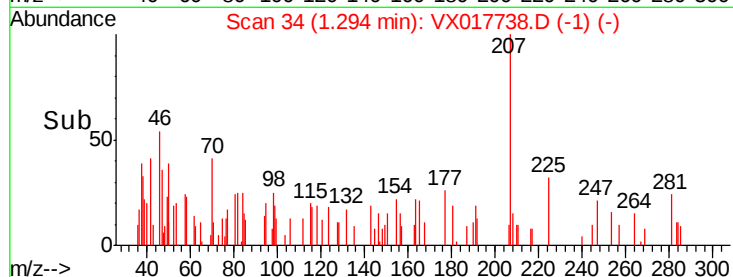
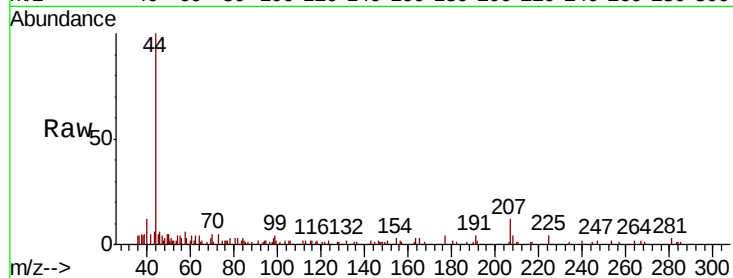




#3
Chloromethane
Concen: 0.436 ug/l
RT: 1.29 min Scan# 34
Delta R.T. -0.02 min
Lab File: VX017738.D
Acq: 01 Aug 2020 06:19

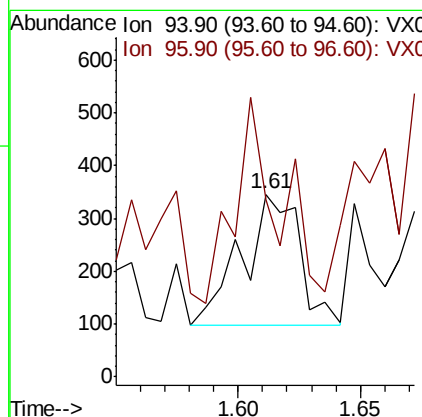
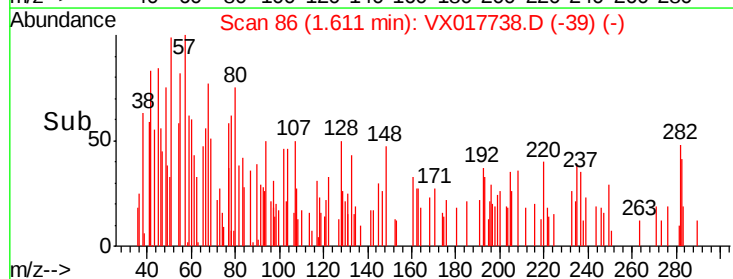
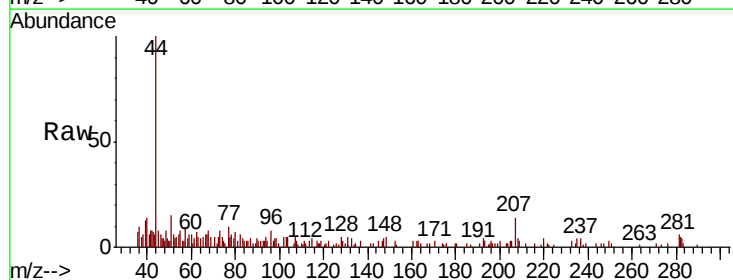
Instrument :
MSVOA_X
ClientSampled :
TP-4

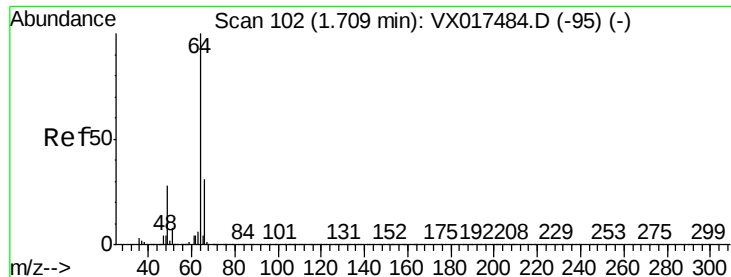
Tot Ion: 50 Resp: 386
Ion Ratio Lower Upper
50 100
52 32.1 25.9 38.9



#5
Bromomethane
Concen: Below Cal
RT: 1.61 min Scan# 86
Delta R.T. -0.01 min
Lab File: VX017738.D
Acq: 01 Aug 2020 06:19

Tgt Ion: 94 Resp: 412
Ion Ratio Lower Upper
94 100
96 71.8 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

Instrument :

MSVOA_X

ClientSampled :

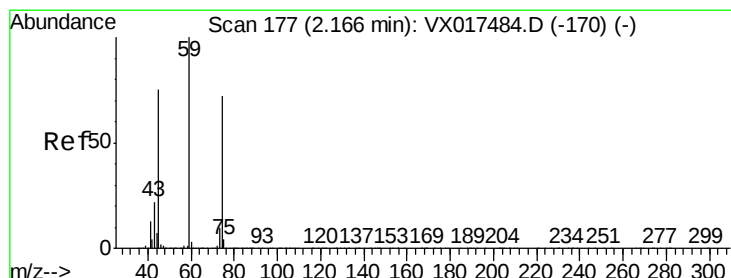
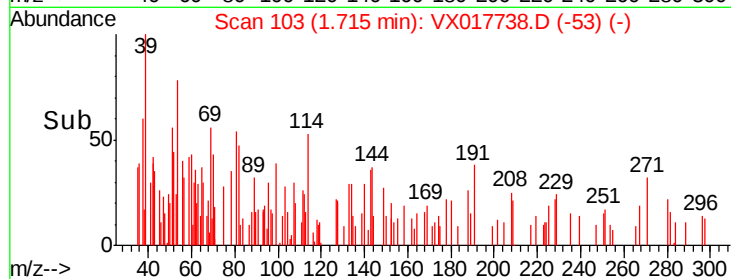
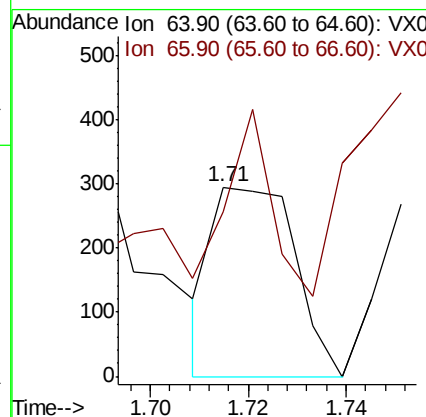
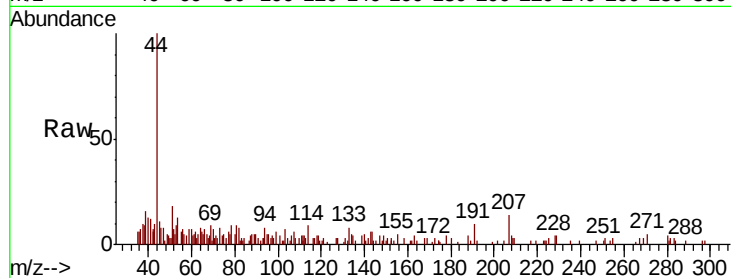
TP-4

Tot Ion: 64 Resp: 343

Ion Ratio Lower Upper

64 100

66 35.4 24.9 37.3



#8

Diethyl Ether

Concen: Below Cal

RT: 2.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VX017738.D

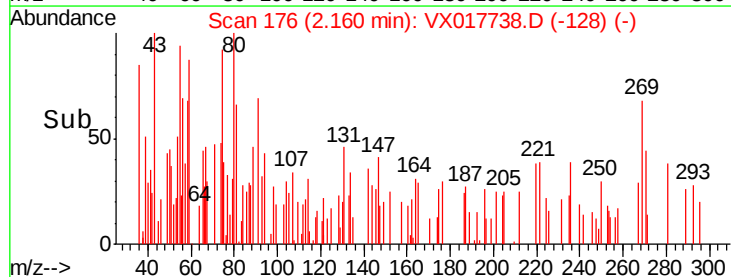
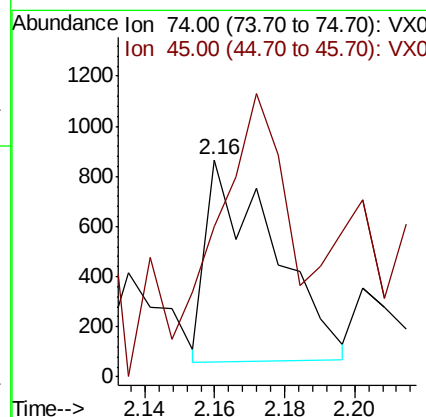
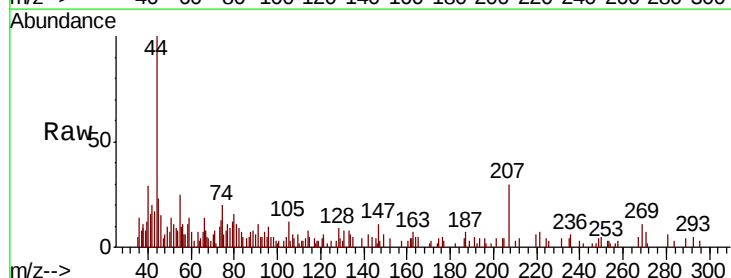
Acq: 01 Aug 2020 06:19

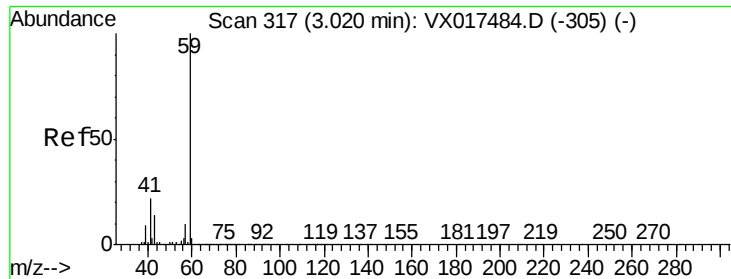
Tgt Ion: 74 Resp: 1081

Ion Ratio Lower Upper

74 100

45 119.2 50.8 152.5

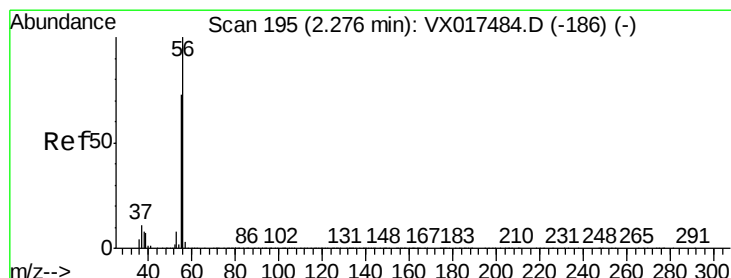
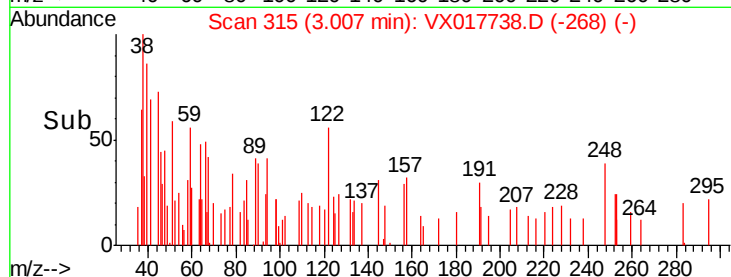
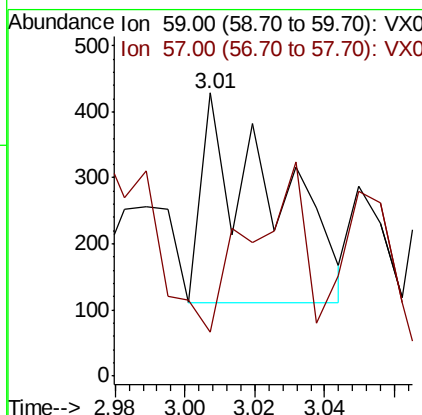
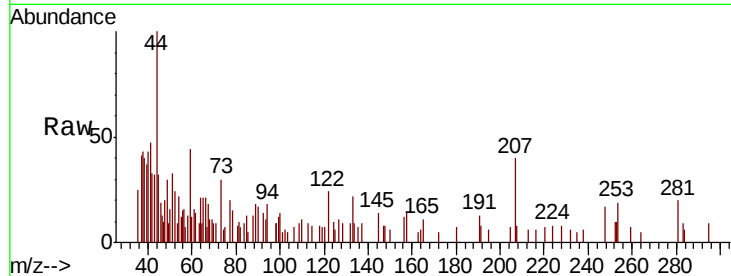




#11
Tert butyl alcohol
Concen: 0.363 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017738.D
Acq: 01 Aug 2020 06:19

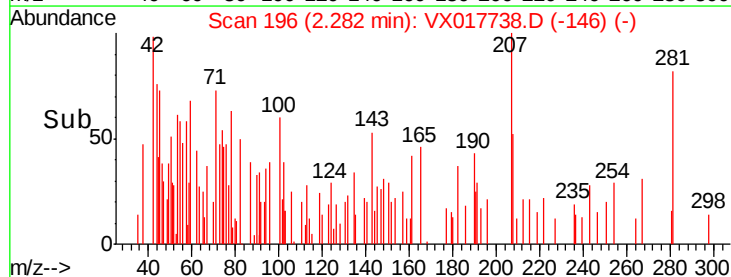
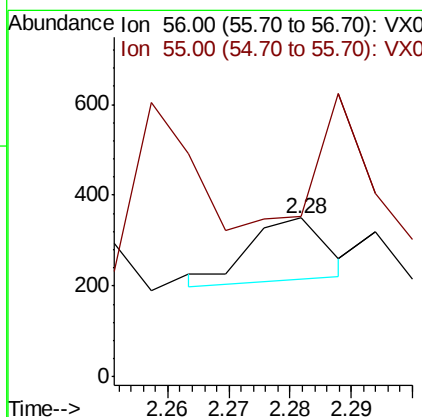
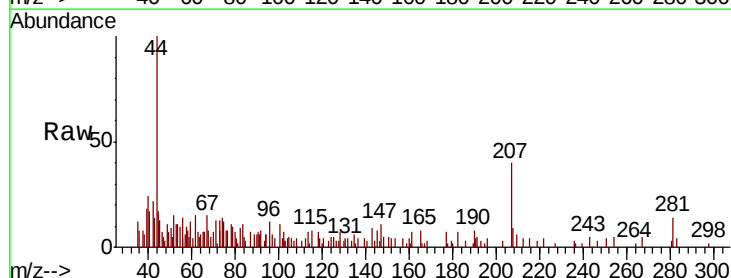
Instrument :
MSVOA_X
ClientSampled :
TP-4

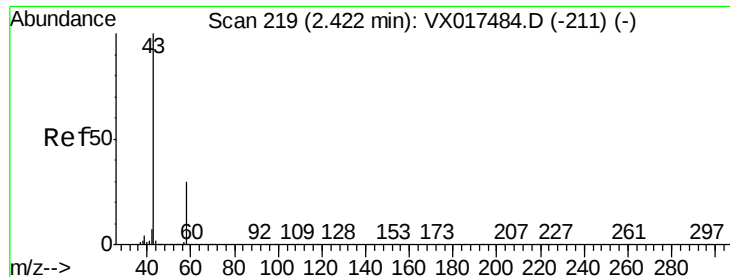
Tot Ion: 59 Resp: 440
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 4.277 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX017738.D
Acq: 01 Aug 2020 06:19

Tgt Ion: 56 Resp: 121
Ion Ratio Lower Upper
56 100
55 233.9 57.4 86.2#





#16

Acetone

Concen: 14.236 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

Instrument :

MSVOA_X

ClientSampleId :

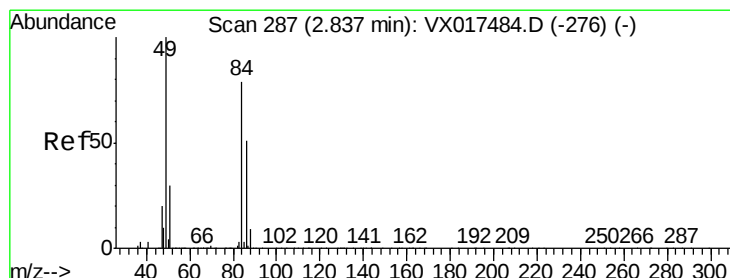
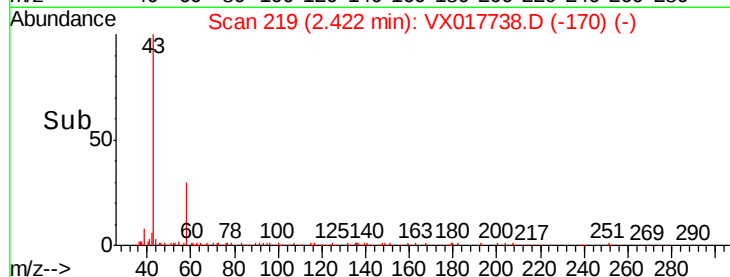
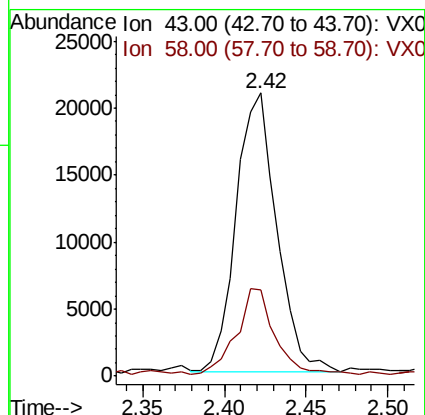
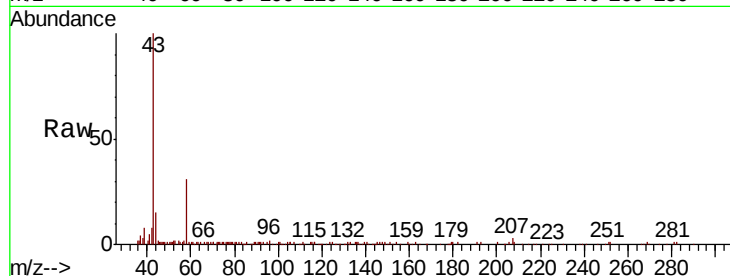
TP-4

Tot Ion: 43 Resp: 36060

Ion Ratio Lower Upper

43 100

58 29.7 24.2 36.4



#20

Methylene Chloride

Concen: 4.572 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

Tgt Ion: 84 Resp: 27376

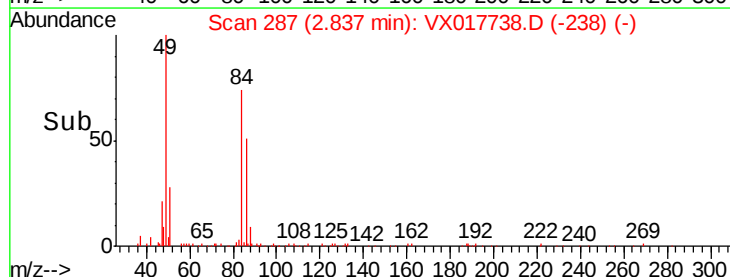
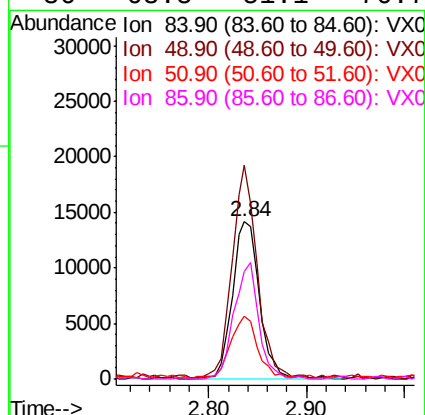
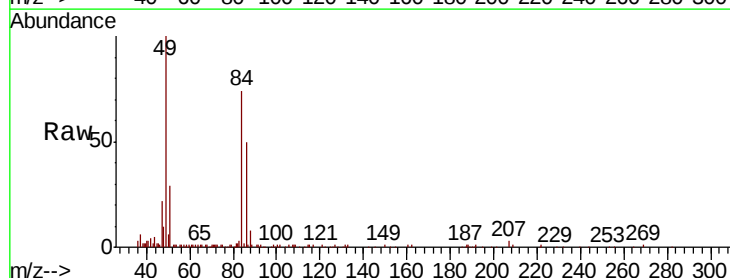
Ion Ratio Lower Upper

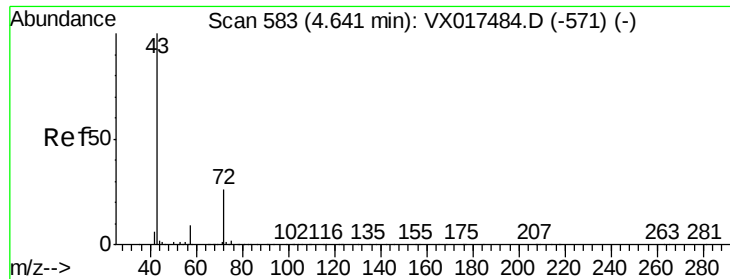
84 100

49 135.1 100.3 150.5

51 38.2 30.5 45.7

86 68.5 51.1 76.7





#25

2-Butanone

Concen: 2.377 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.02 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

Instrument :

MSVOA_X

ClientSampled :

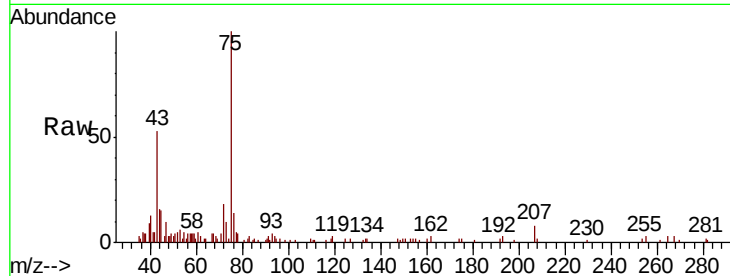
TP-4

Tot Ion: 43 Resp: 8554

Ion Ratio Lower Upper

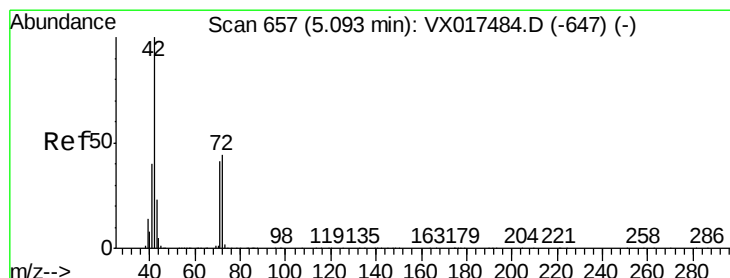
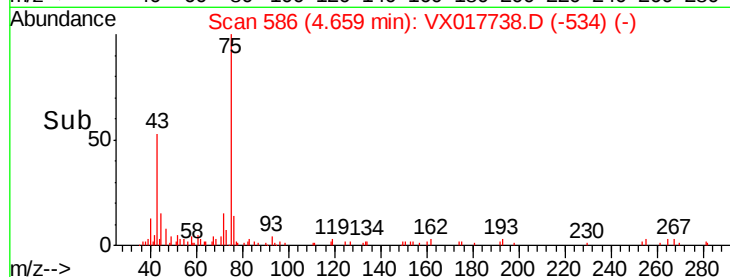
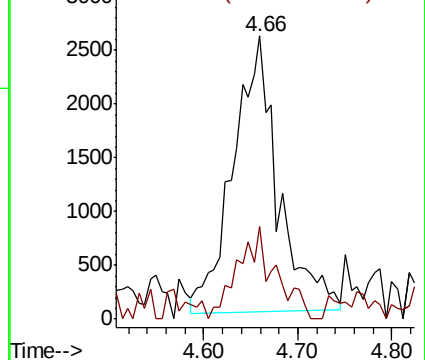
43 100

72 29.5 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.935 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

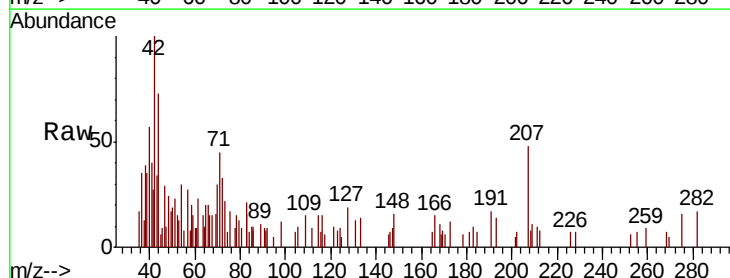
Tgt Ion: 42 Resp: 2083

Ion Ratio Lower Upper

42 100

72 41.4 35.5 53.3

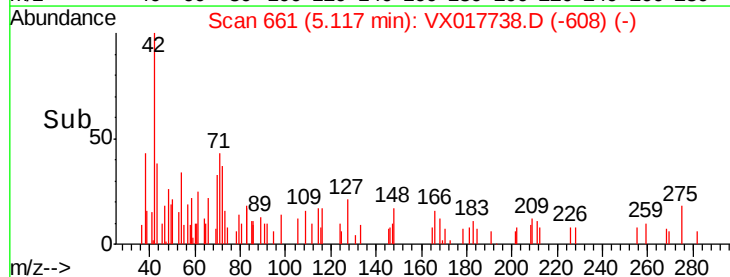
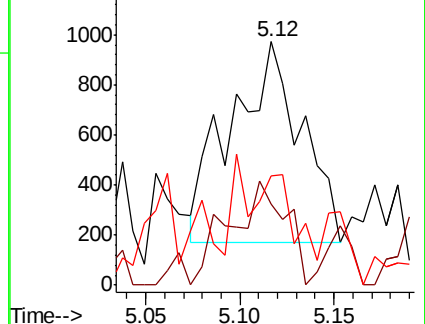
71 9.8 33.0 49.4#

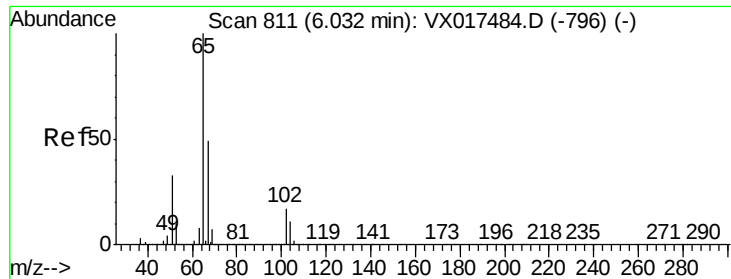


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

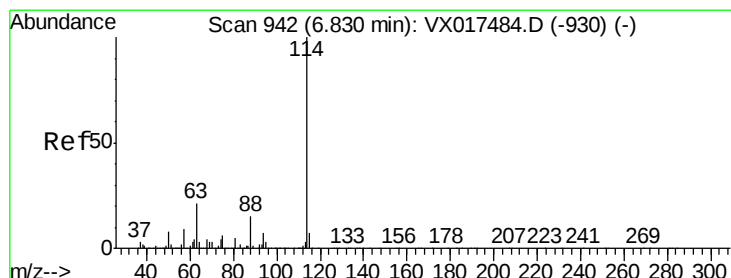
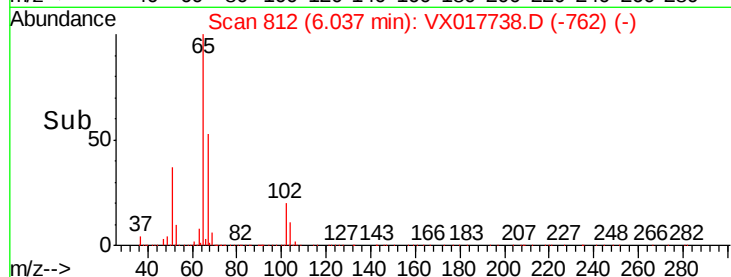
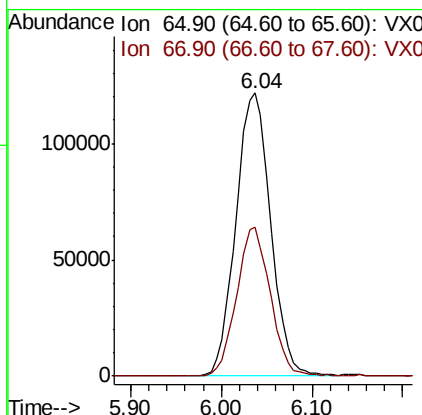
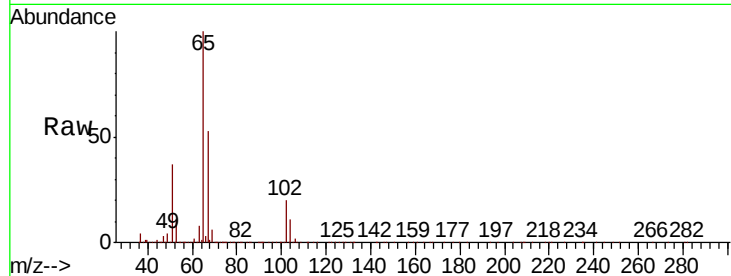




#33
 1,2-Dichloroethane-d4
 Concen: 56.131 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017738.D
 Acq: 01 Aug 2020 06:19

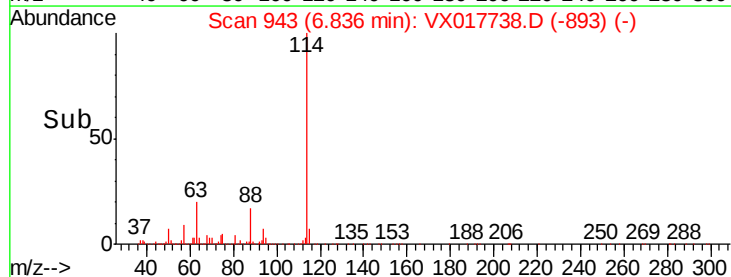
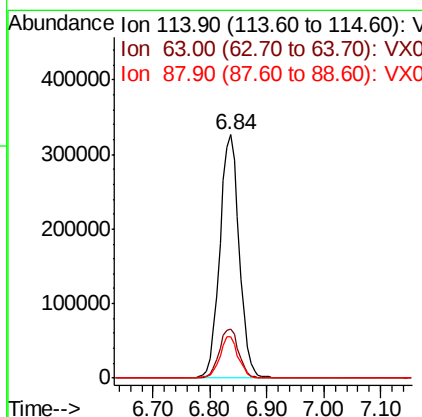
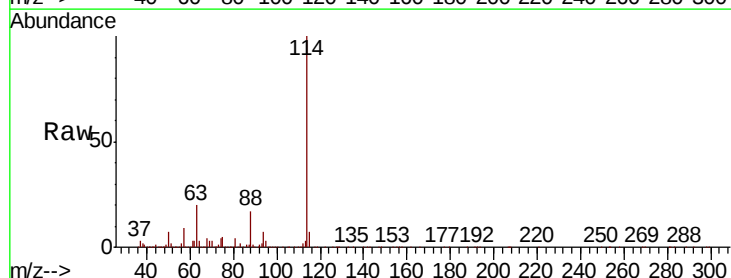
Instrument :
 MSVOA_X
 ClientSampled :
 TP-4

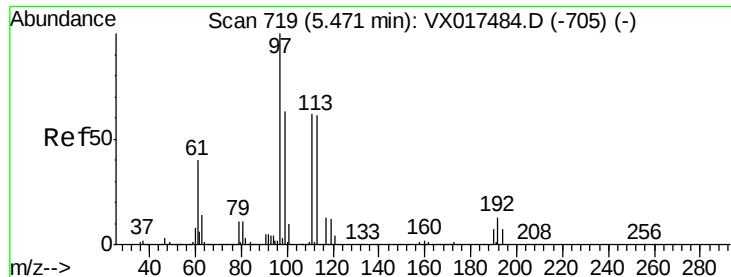
Tot Ion: 65 Resp: 323029
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017738.D
 Acq: 01 Aug 2020 06:19

Tgt Ion: 114 Resp: 771831
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.6
 88 17.2 0.0 33.4

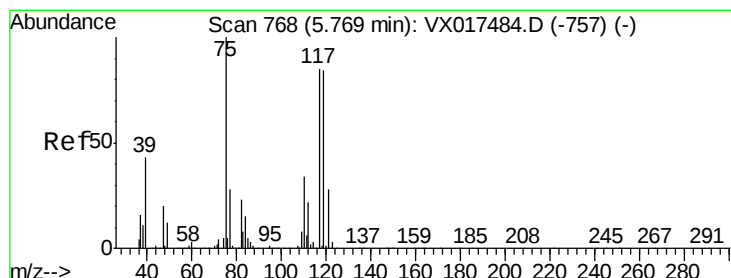
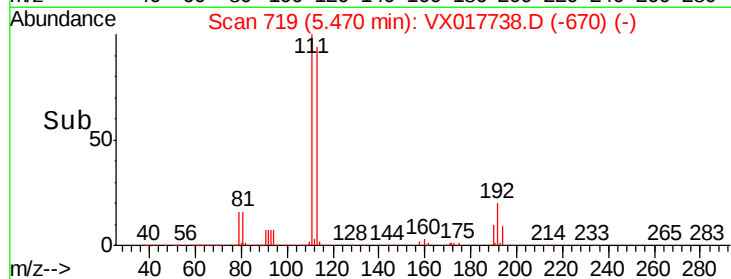
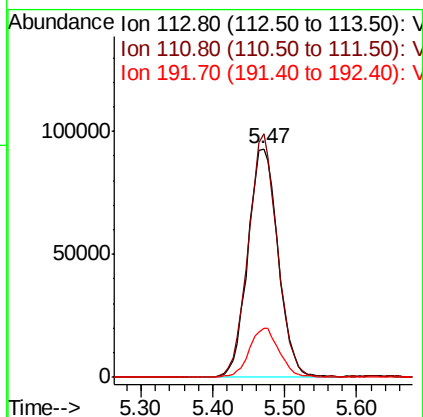
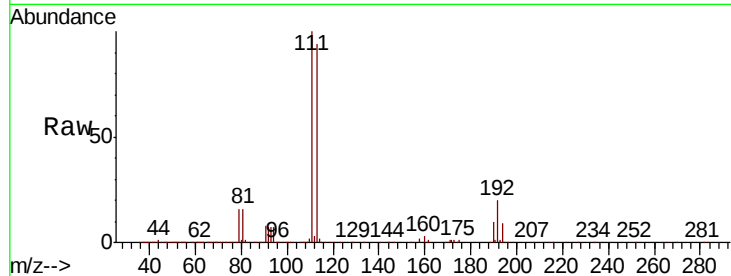




#35
 Dibromofluoromethane
 Concen: 52.742 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017738.D
 Acq: 01 Aug 2020 06:19

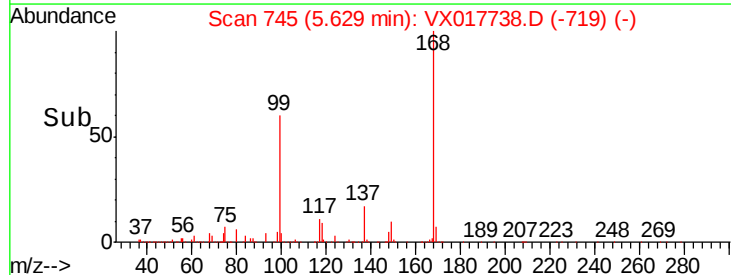
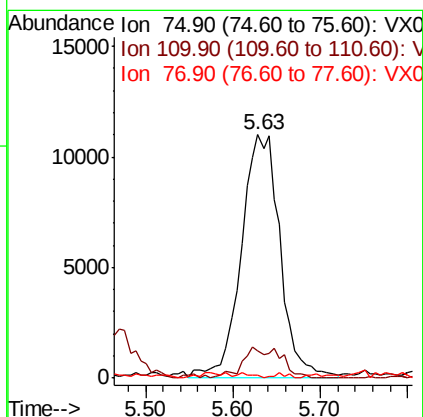
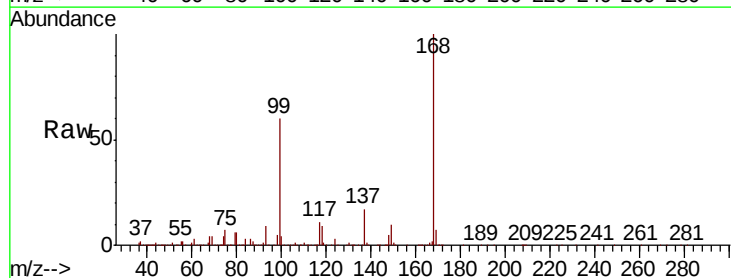
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-4

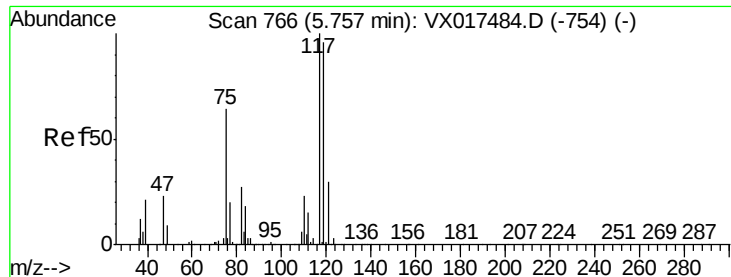
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.7	121.1
192	21.2	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 4.597 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017738.D
 Acq: 01 Aug 2020 06:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.9	18.1	54.3#
77	0.9	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.195 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

Instrument :

MSVOA_X

ClientSampleId :

TP-4

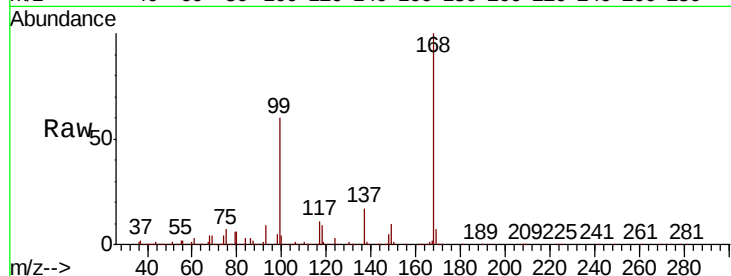
Tot Ion:117 Resp: 46698

Ion Ratio Lower Upper

117 100

119 6.1 75.4 113.0#

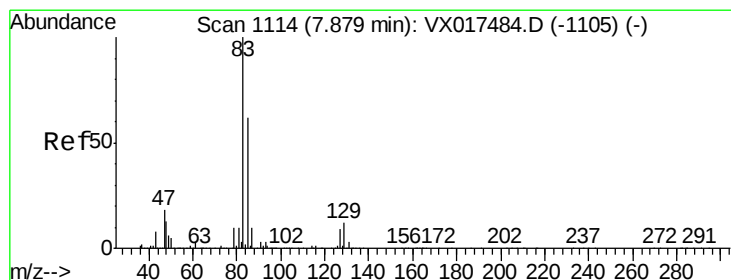
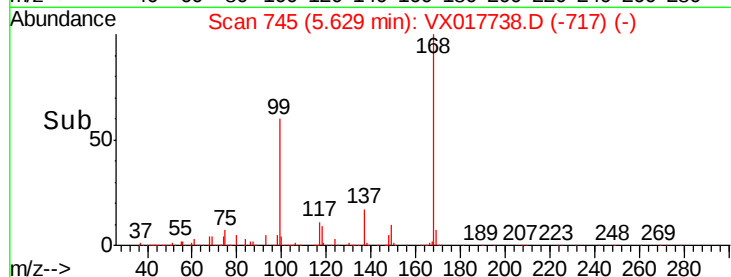
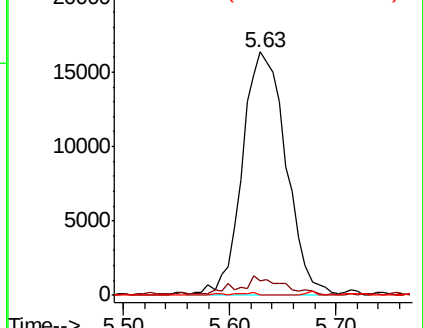
121 0.0 24.3 36.5#



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



#47

Bromodichloromethane

Concen: 0.211 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

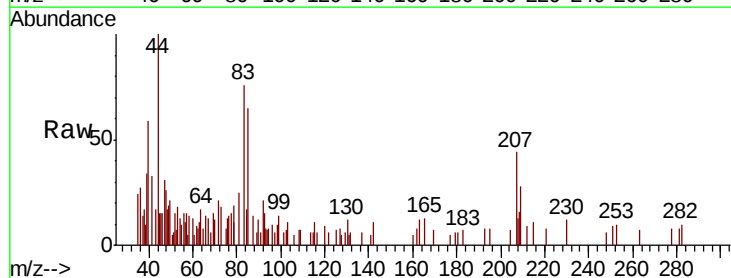
Tgt Ion: 83 Resp: 1768

Ion Ratio Lower Upper

83 100

85 76.2 51.8 77.8

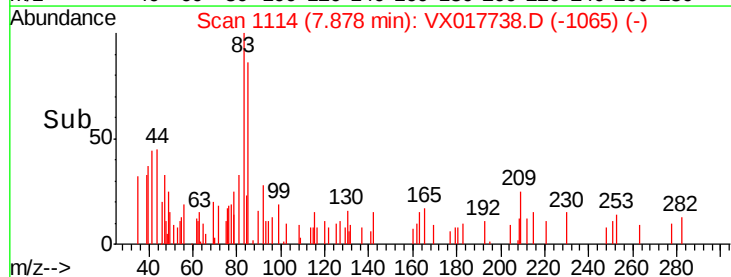
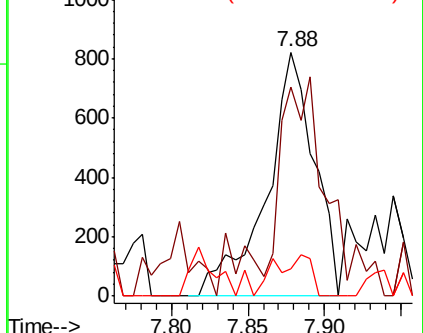
127 2.8 7.4 11.2#

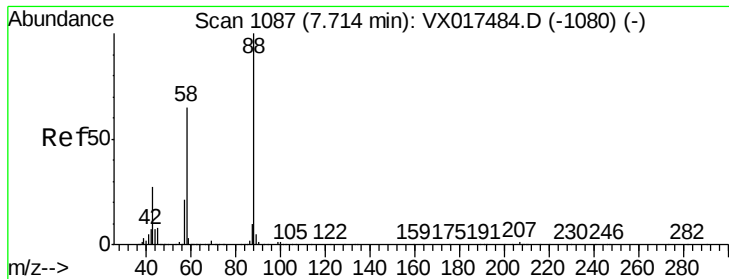


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

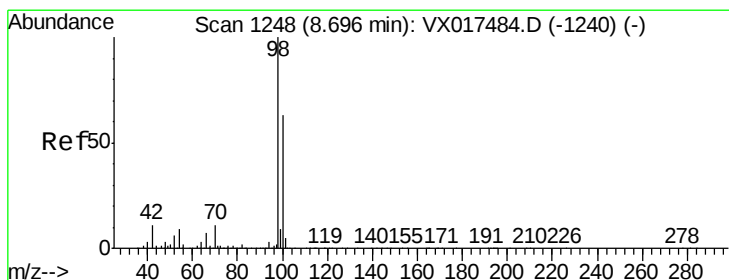
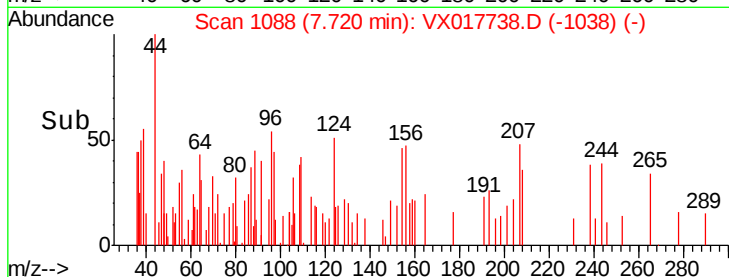
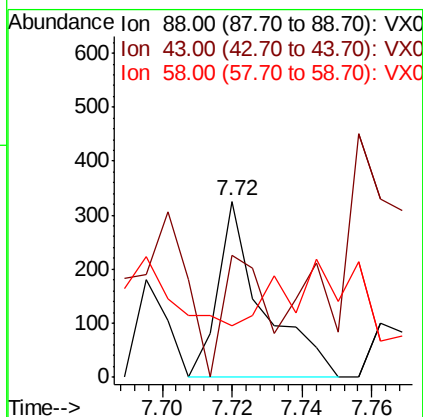
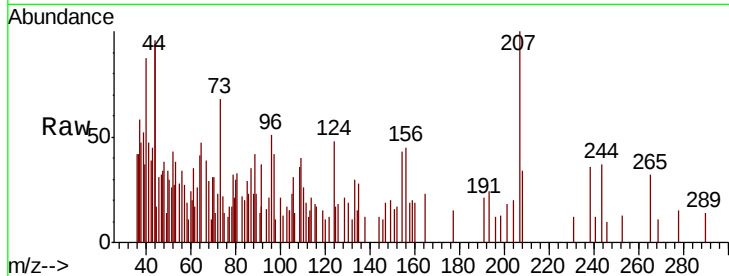




#49
1,4-Dioxane
Concen: 2.283 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX017738.D
Acq: 01 Aug 2020 06:19

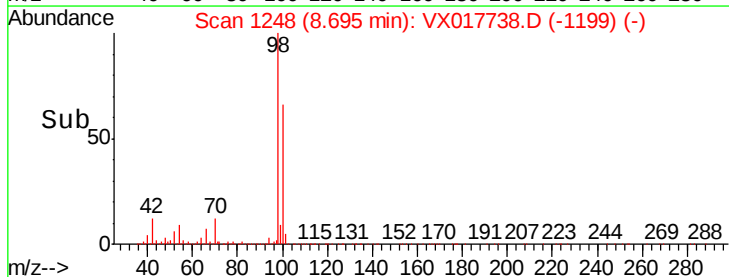
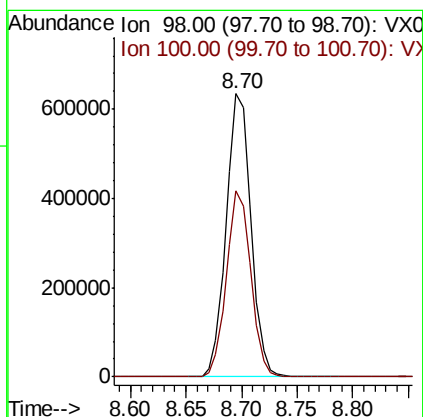
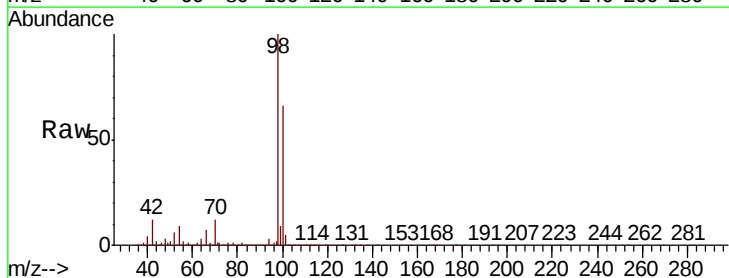
Instrument :
MSVOA_X
ClientSampled :
TP-4

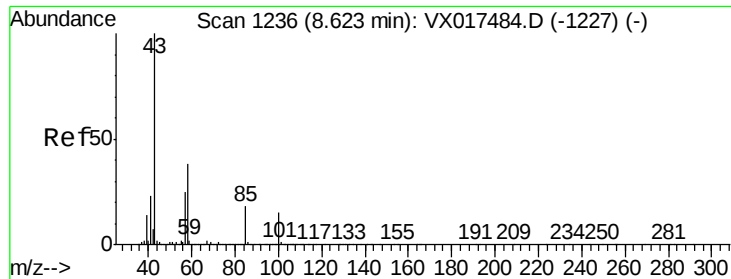
Tot Ion: 88 Resp: 290
Ion Ratio Lower Upper
88 100
43 64.1 27.8 41.6#
58 0.0 58.3 87.5#



#50
Toluene-d8
Concen: 52.674 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017738.D
Acq: 01 Aug 2020 06:19

Tgt Ion: 98 Resp: 980893
Ion Ratio Lower Upper
98 100
100 64.6 52.3 78.5

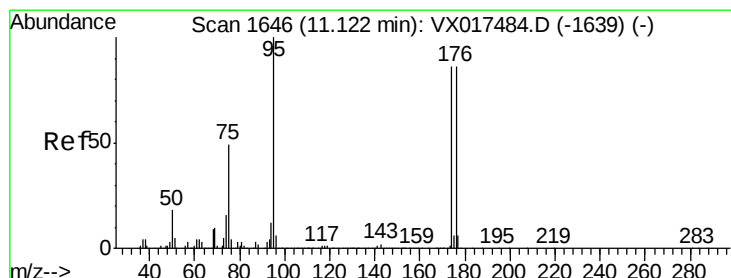
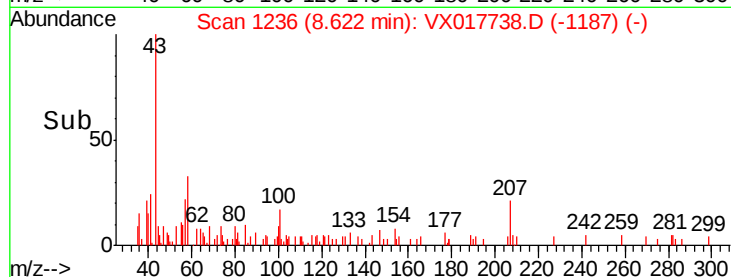
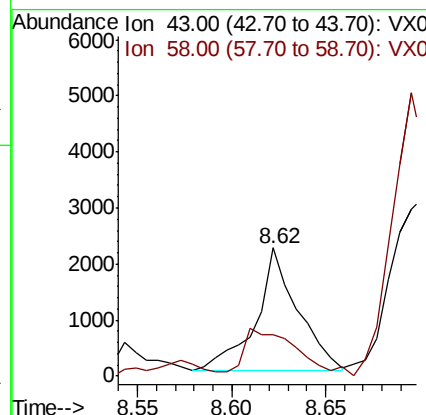
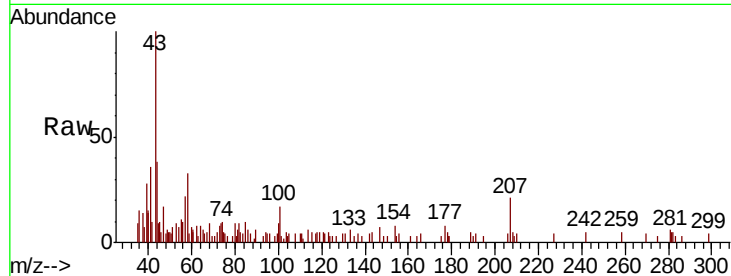




#51
4-Methyl-2-Pentanone
Concen: 0.418 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX017738.D
Acq: 01 Aug 2020 06:19

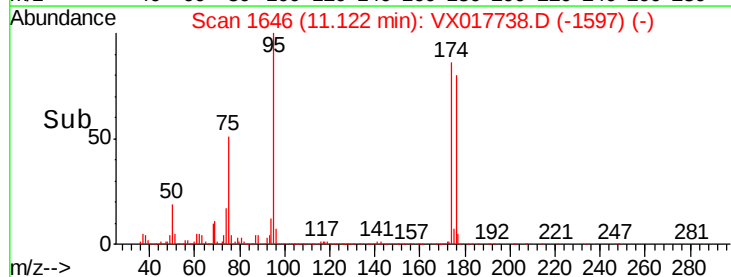
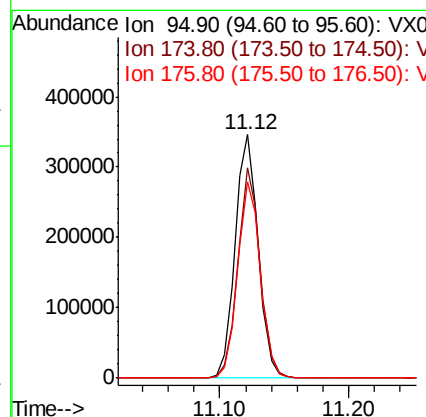
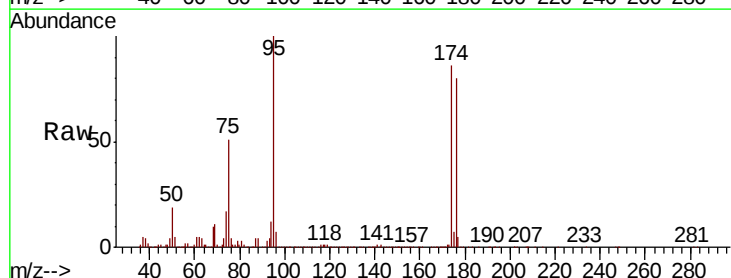
Instrument :
MSVOA_X
ClientSampled :
TP-4

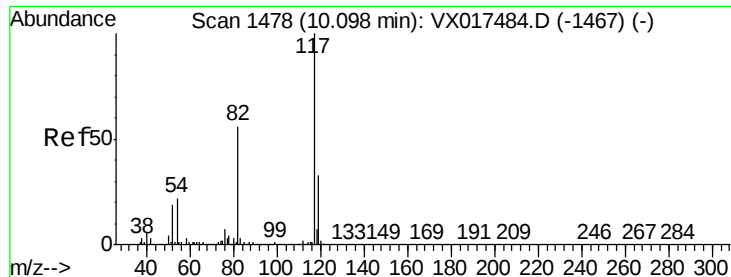
Tot Ion: 43 Resp: 3334
Ion Ratio Lower Upper
43 100
58 50.2 31.0 46.4#



#62
4-Bromofluorobenzene
Concen: 58.214 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017738.D
Acq: 01 Aug 2020 06:19

Tgt Ion: 95 Resp: 433845
Ion Ratio Lower Upper
95 100
174 83.5 0.0 169.0
176 79.6 0.0 161.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

Instrument :

MSVOA_X

ClientSampleId :

TP-4

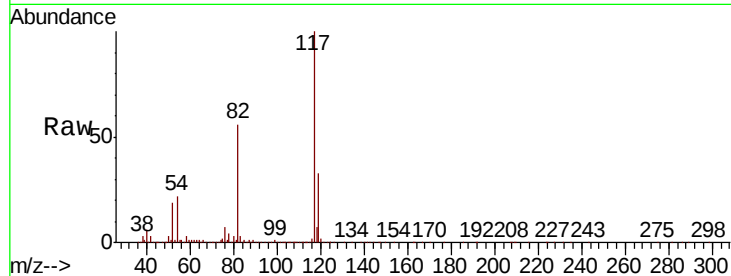
Tot Ion:117 Resp: 841488

Ion Ratio Lower Upper

117 100

82 55.8 44.0 66.0

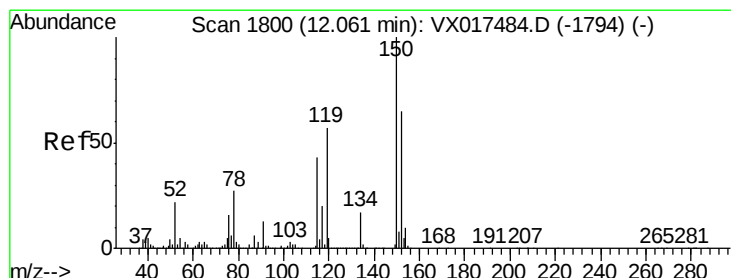
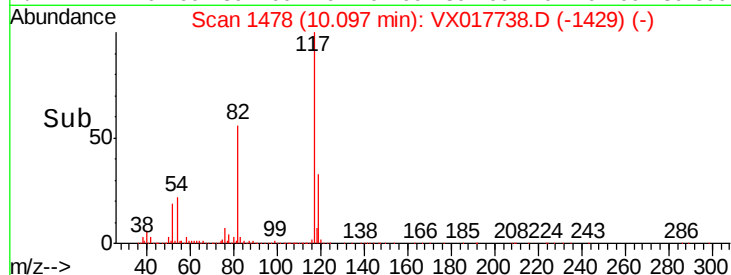
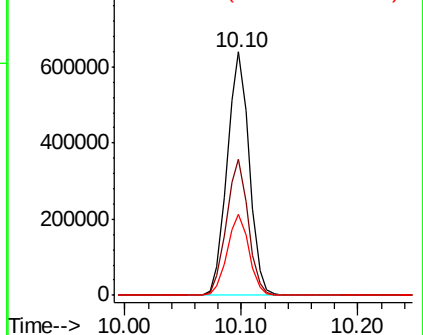
119 33.0 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

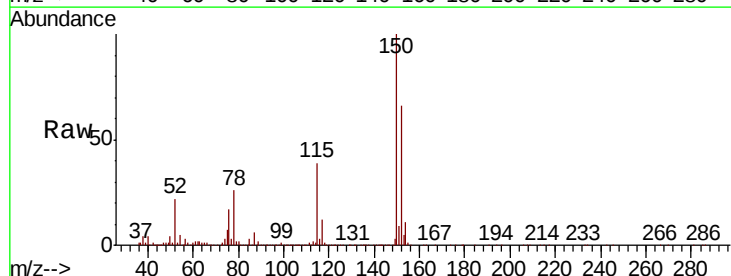
Tgt Ion:152 Resp: 464920

Ion Ratio Lower Upper

152 100

115 57.8 65.5 196.6#

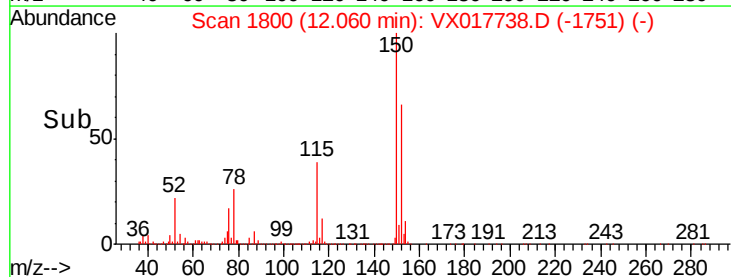
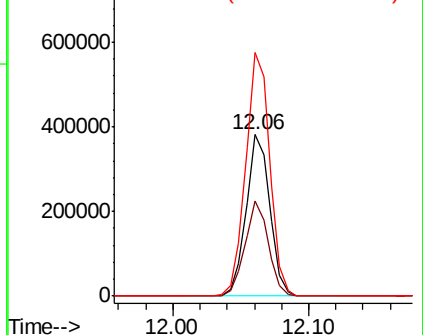
150 153.4 0.0 412.6

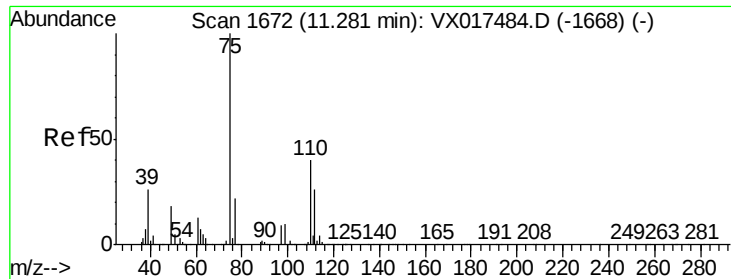


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.931 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

Instrument :

MSVOA_X

ClientSampleId :

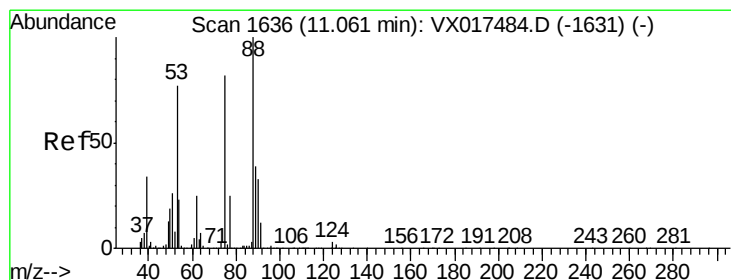
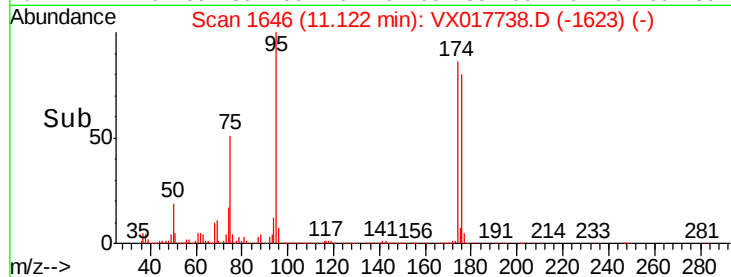
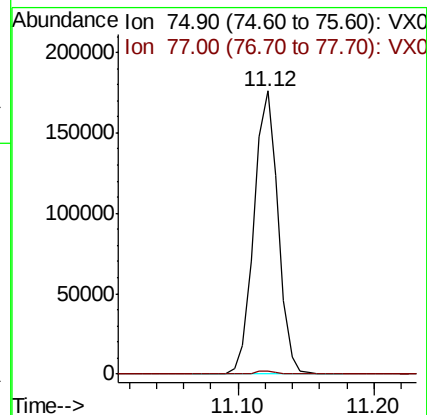
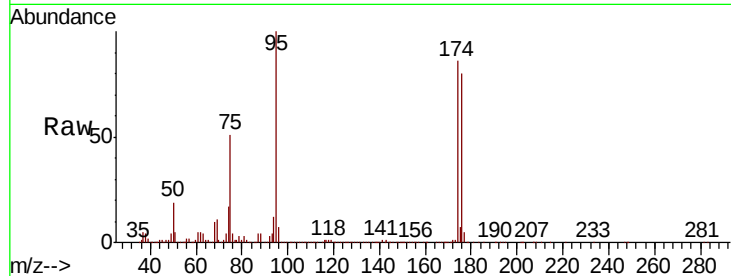
TP-4

Tot Ion: 75 Resp: 219302

Ion Ratio Lower Upper

75 100

77 1.2 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.781 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

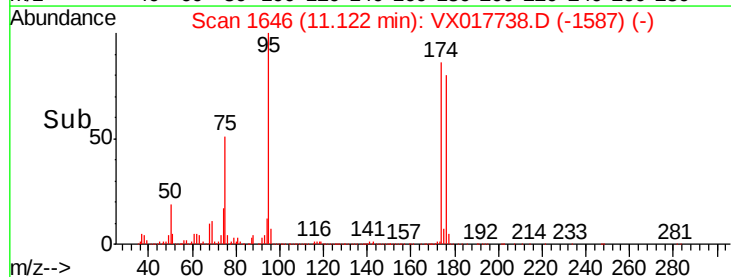
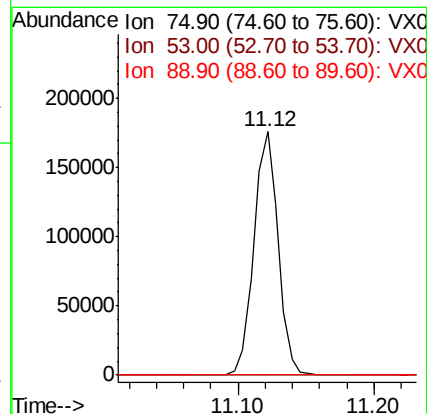
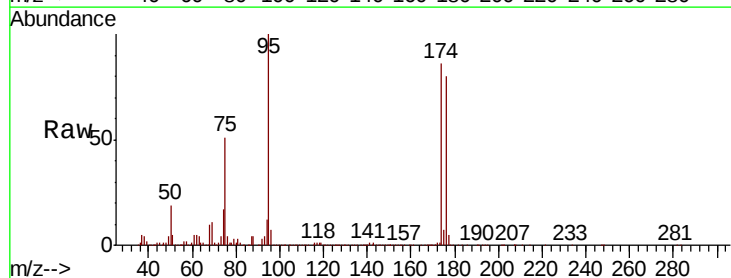
Tgt Ion: 75 Resp: 219302

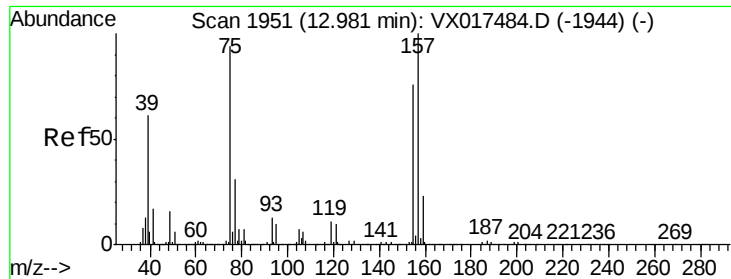
Ion Ratio Lower Upper

75 100

53 0.6 75.9 113.9#

89 0.2 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.603 ug/l

RT: 13.01 min Scan# 1956

Delta R.T. 0.03 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

Instrument :

MSVOA_X

ClientSampleId :

TP-4

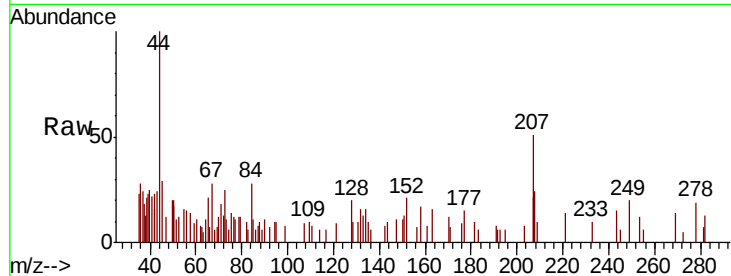
Tot Ion: 75 Resp: 79

Ion Ratio Lower Upper

75 100

155 55.7 42.3 126.8

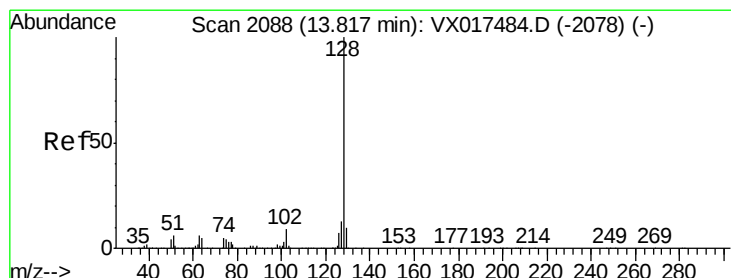
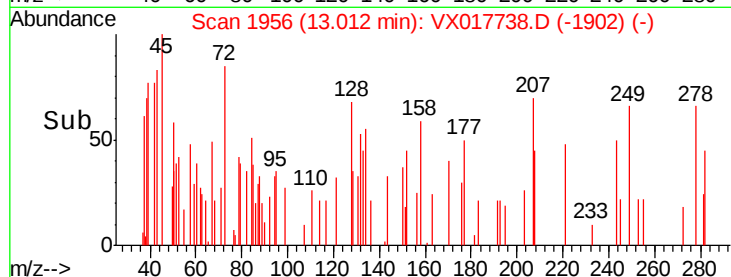
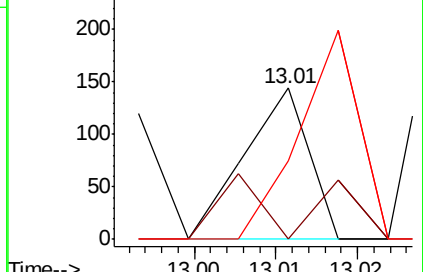
157 126.6 54.3 162.9



Abundance Ion 74.90 (74.60 to 75.60): VX017484.D (-1944) (-)

Ion 154.80 (154.50 to 155.50): VX017484.D (-1944) (-)

Ion 156.80 (156.50 to 157.50): VX017484.D (-1944) (-)



#95

Naphthalene

Concen: 0.277 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017738.D

Acq: 01 Aug 2020 06:19

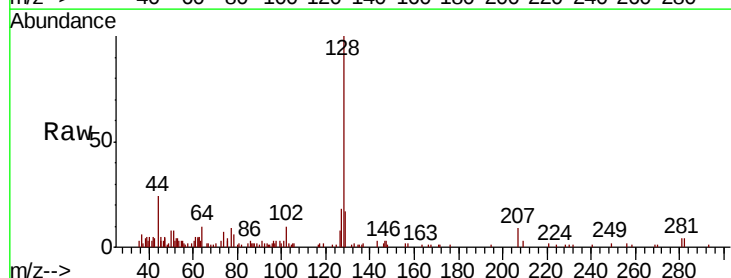
Tgt Ion: 128 Resp: 8498

Ion Ratio Lower Upper

128 100

127 16.6 10.4 15.6#

129 14.5 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): VX017484.D (-2078) (-)

Ion 127.00 (126.70 to 127.70): VX017484.D (-2078) (-)

Ion 129.00 (128.70 to 129.70): VX017484.D (-2078) (-)

