

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072820\
 Data File : VX017649.D
 Acq On : 28 Jul 2020 13:37
 Operator : JC/SP
 Sample : L3371-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 29 02:26:38 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	5.64	168	525319	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	878906	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	931413	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	497873	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	362268	53.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.38%	
35) Dibromofluoromethane	5.47	113	297309	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
50) Toluene-d8	8.70	98	1095778	51.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.34%	
62) 4-Bromofluorobenzene	11.12	95	470408	55.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.86%	

Target Compounds

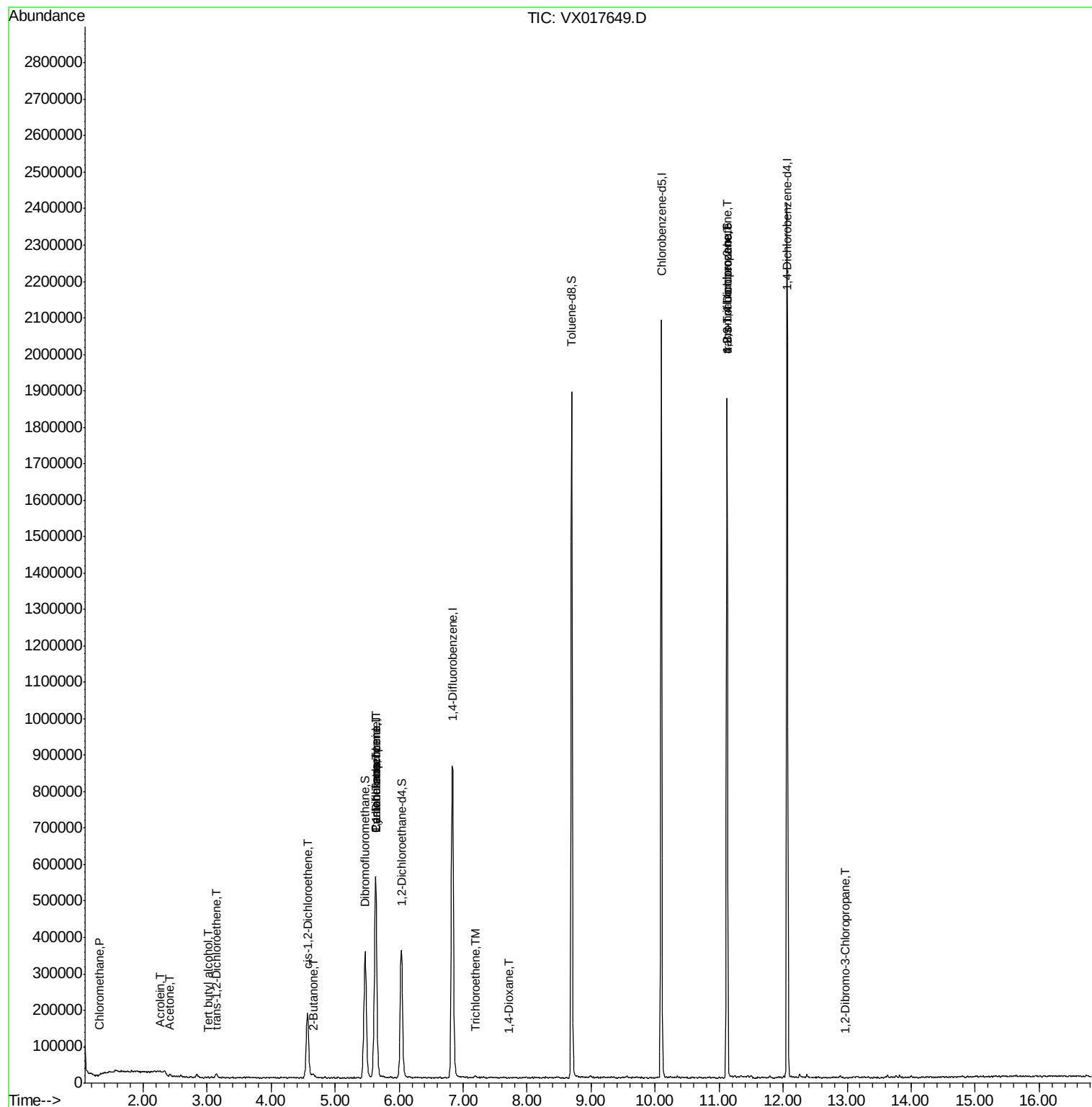
						Qvalue
2) Dichlorodifluoromethane	1.19	85	613	Below Cal		87
3) Chloromethane	1.31	50	1486	0.594 ug/l #		22
5) Bromomethane	1.61	94	281	Below Cal #		12
6) Chloroethane	1.71	64	527	Below Cal #		44
8) Diethyl Ether	2.17	74	562	Below Cal		75
11) Tert butyl alcohol	3.01	59	1485	1.044 ug/l		99
13) Acrolein	2.27	56	717	4.798 ug/l #		1
16) Acetone	2.42	43	6435	2.167 ug/l		90
20) Methylene Chloride	2.84	84	3926	Below Cal #		78
21) trans-1,2-Dichloroethene	3.15	96	5268	0.906 ug/l #		63
25) 2-Butanone	4.67	43	2020	0.479 ug/l #		81
27) cis-1,2-Dichloroethene	4.57	96	111575	17.672 ug/l		90
31) Cyclohexane	5.63	56	11000	1.322 ug/l #		21
36) 1,1-Dichloropropene	5.63	75	38076	4.517 ug/l #		52
38) Carbon Tetrachloride	5.64	117	53286	5.206 ug/l #		18
44) Trichloroethene	7.18	130	1719	0.243 ug/l		54
49) 1,4-Dioxane	7.71	88	496	3.430 ug/l #		62
76) 1,2,3-Trichloropropane	11.12	75	239730	23.408 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	239730	58.982 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	235	2.651 ug/l #		36

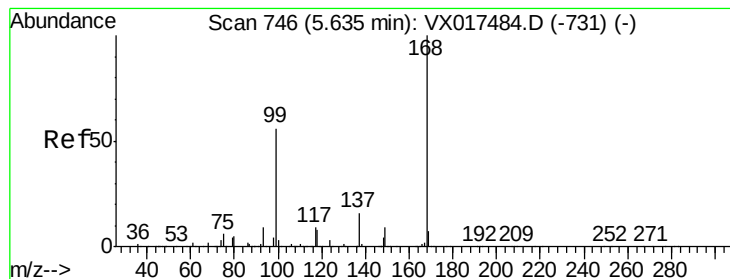
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017649.D

Acq: 28 Jul 2020 13:37

Instrument :

MSVOA_X

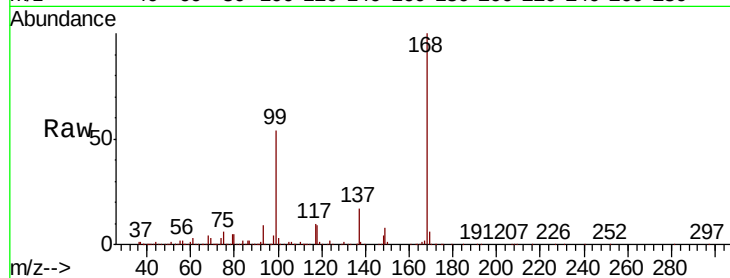
ClientSampled :

Tot Ion:168 Resp: 525319

Ion Ratio Lower Upper

168 100

99 54.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

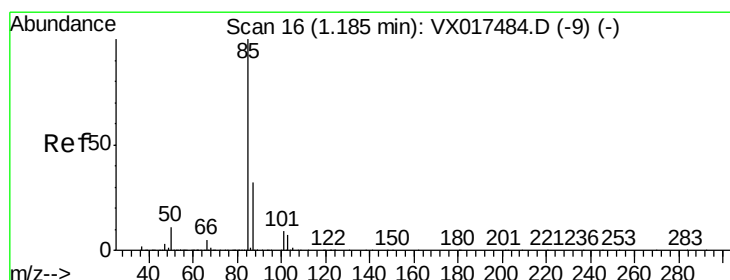
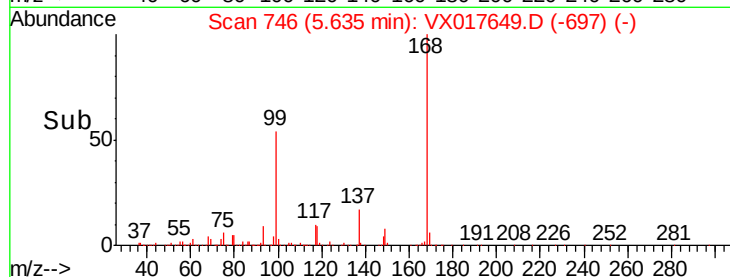
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017649.D

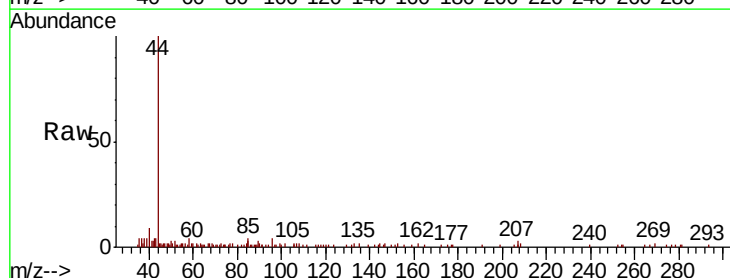
Acq: 28 Jul 2020 13:37

Tgt Ion: 85 Resp: 613

Ion Ratio Lower Upper

85 100

87 39.6 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

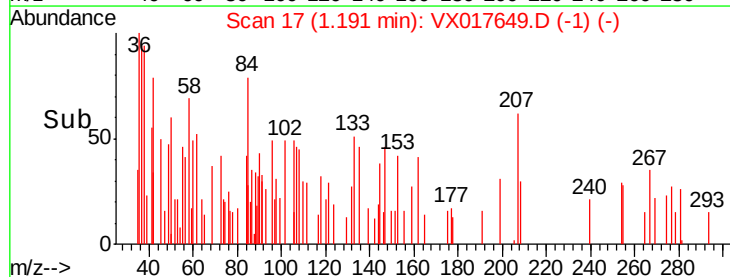
600

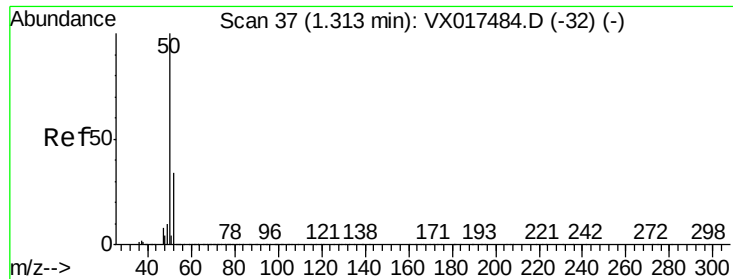
400

200

0

Time-->





#3

Chloromethane

Concen: 0.594 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017649.D

Acq: 28 Jul 2020 13:37

Instrument :

MSVOA_X

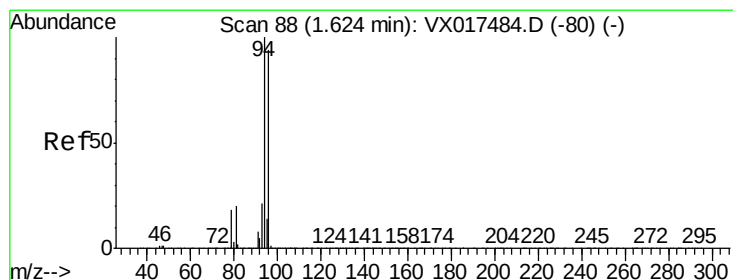
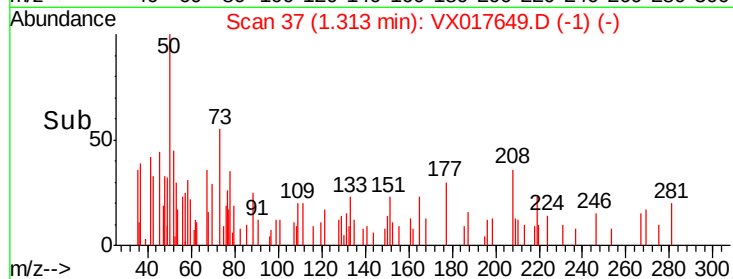
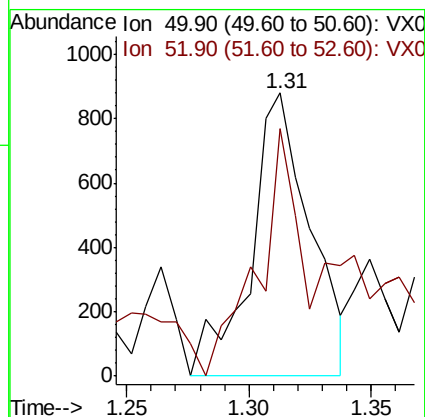
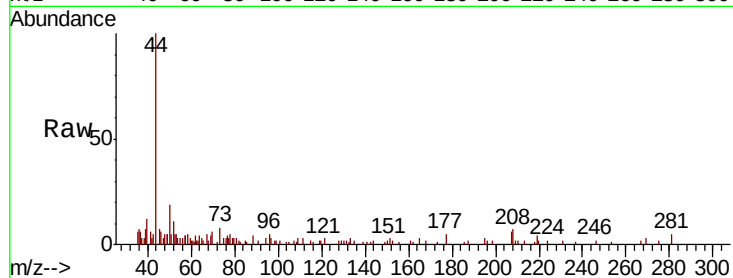
ClientSampleId :

Tot Ion: 50 Resp: 1486

Ion Ratio Lower Upper

50 100

52 76.2 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 86

Delta R.T. -0.01 min

Lab File: VX017649.D

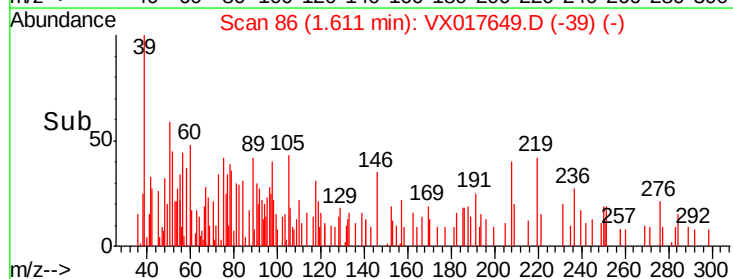
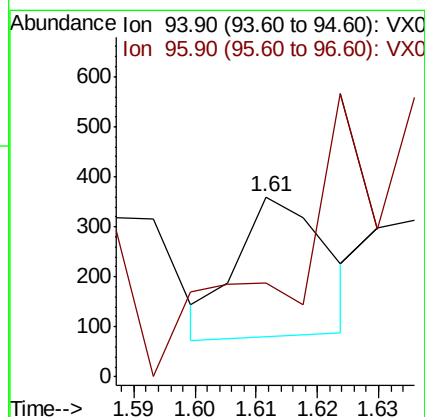
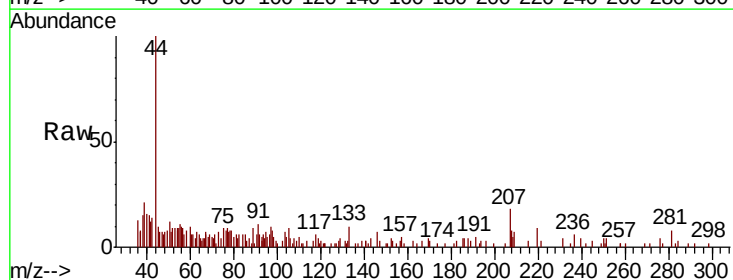
Acq: 28 Jul 2020 13:37

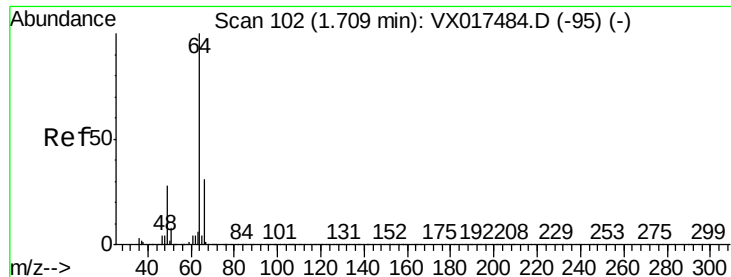
Tgt Ion: 94 Resp: 281

Ion Ratio Lower Upper

94 100

96 8.4 74.1 111.1#

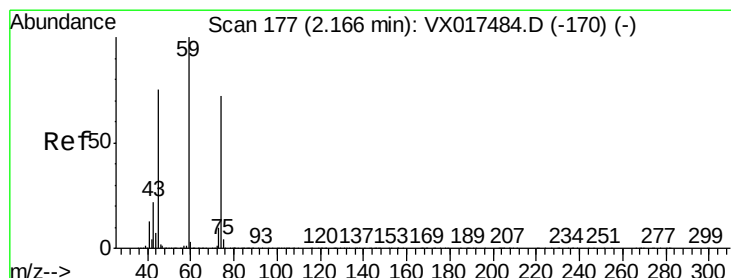
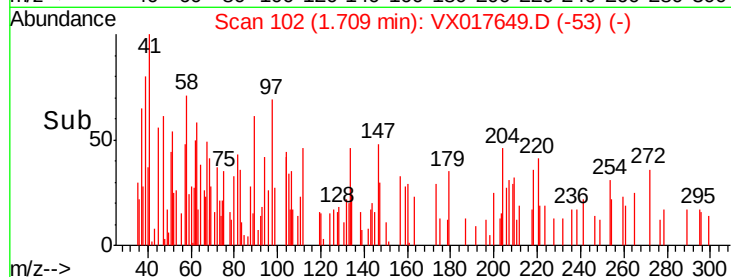
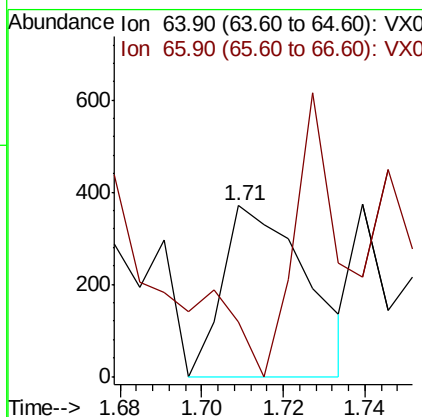
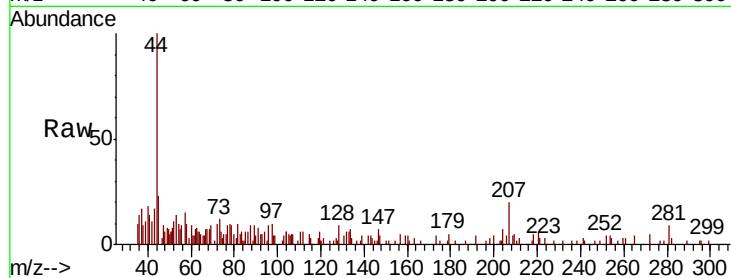




#6
Chloroethane
Concen: Below Cal
RT: 1.71 min Scan# 102
Delta R.T. 0.00 min
Lab File: VX017649.D
Acq: 28 Jul 2020 13:37

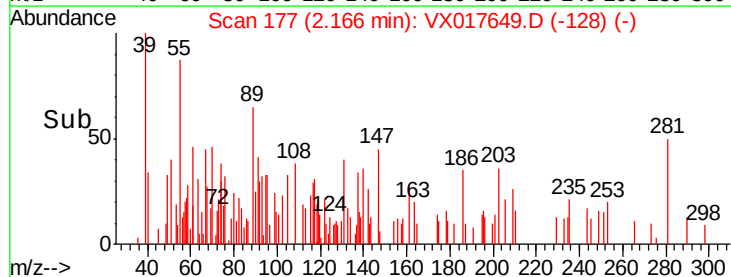
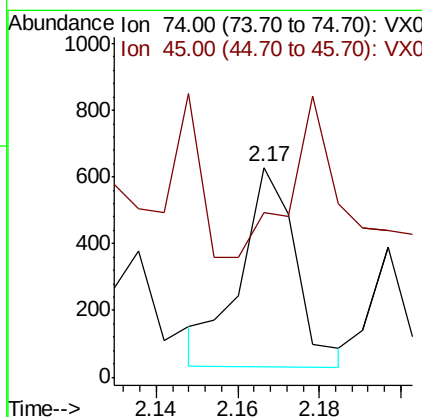
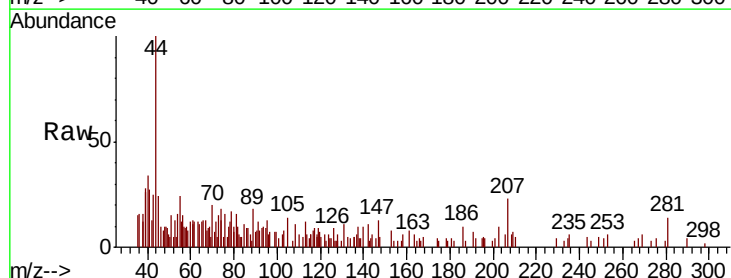
Instrument :
MSVOA_X
ClientSampled :

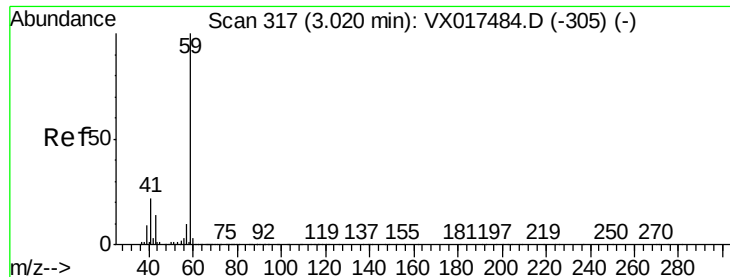
Tot Ion: 64 Resp: 527
Ion Ratio Lower Upper
64 100
66 0.0 24.9 37.3#



#8
Diethyl Ether
Concen: Below Cal
RT: 2.17 min Scan# 177
Delta R.T. 0.00 min
Lab File: VX017649.D
Acq: 28 Jul 2020 13:37

Tgt Ion: 74 Resp: 562
Ion Ratio Lower Upper
74 100
45 76.7 50.8 152.5



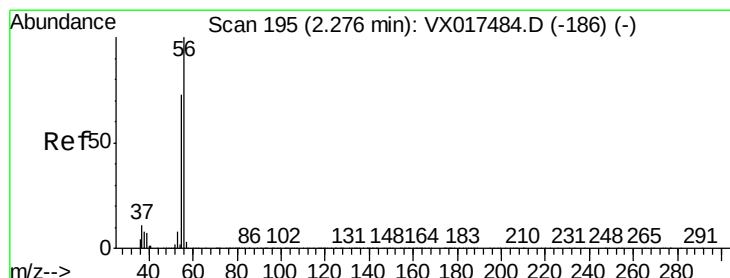
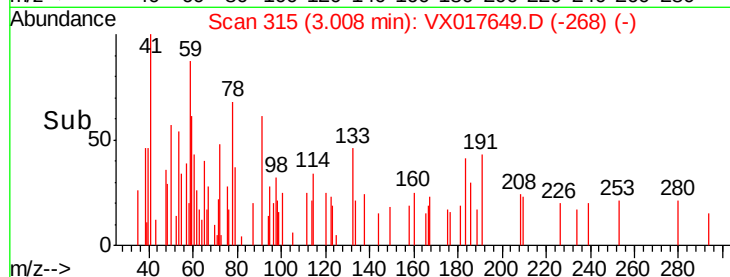
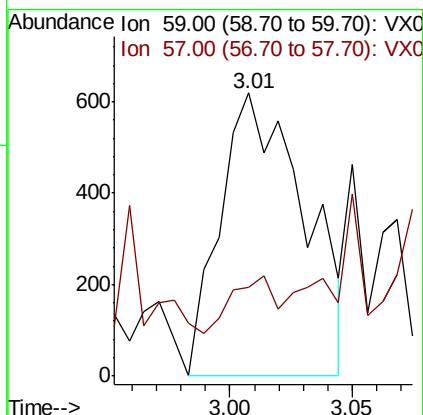
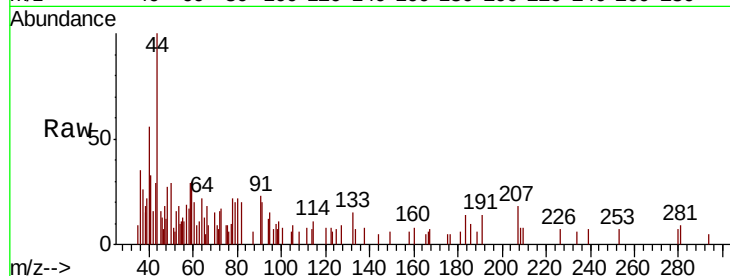


#11

Tert butyl alcohol
Concen: 1.044 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017649.D
Acq: 28 Jul 2020 13:37

Instrument :
MSVOA_X
ClientSampled :

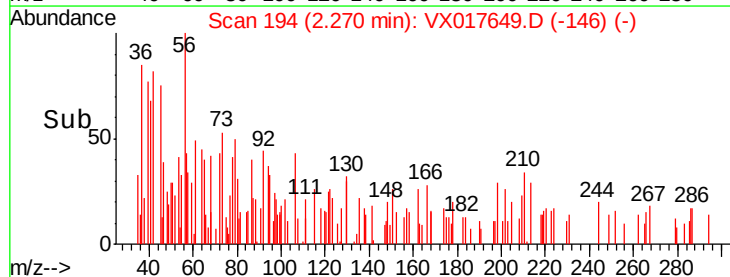
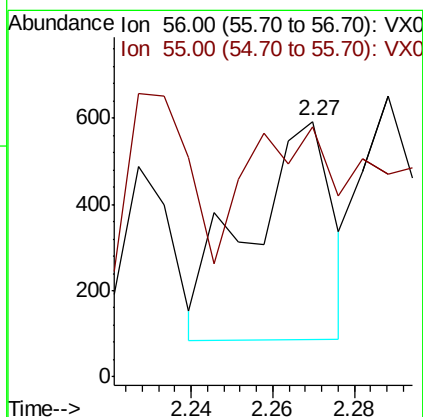
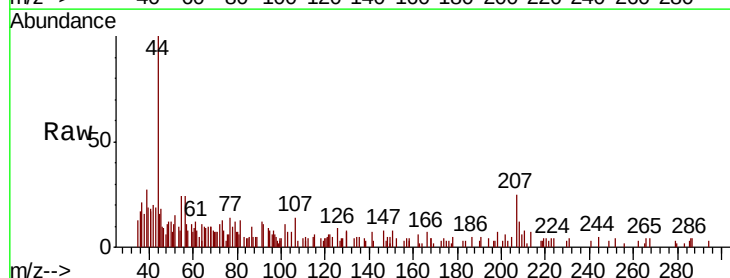
Tot Ion: 59 Resp: 1485
Ion Ratio Lower Upper
59 100
57 10.2 8.6 12.8

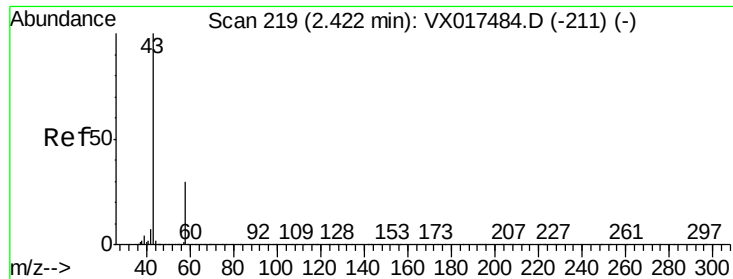


#13

Acrolein
Concen: 4.798 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017649.D
Acq: 28 Jul 2020 13:37

Tgt Ion: 56 Resp: 717
Ion Ratio Lower Upper
56 100
55 232.1 57.4 86.2#

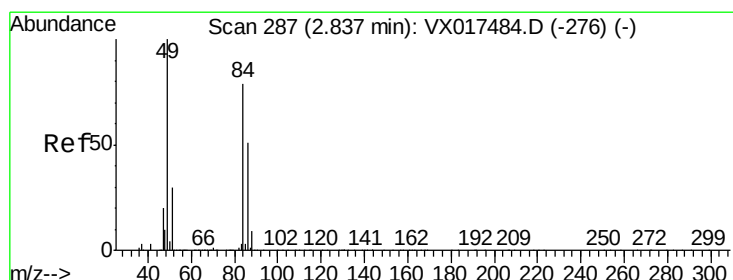
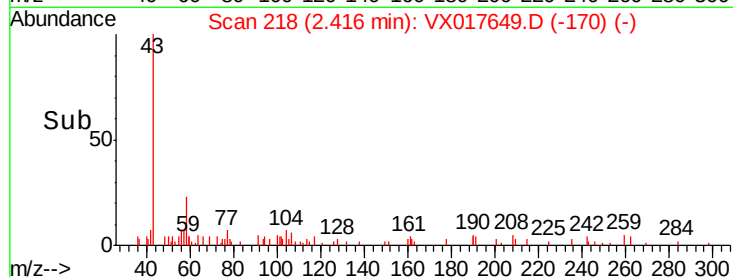
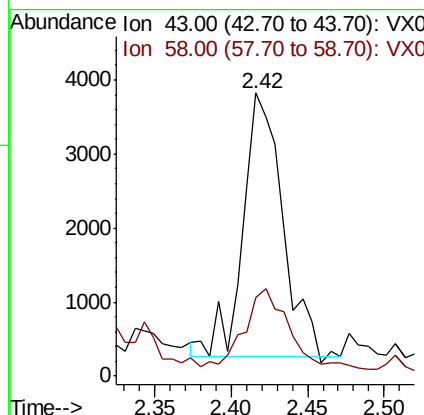
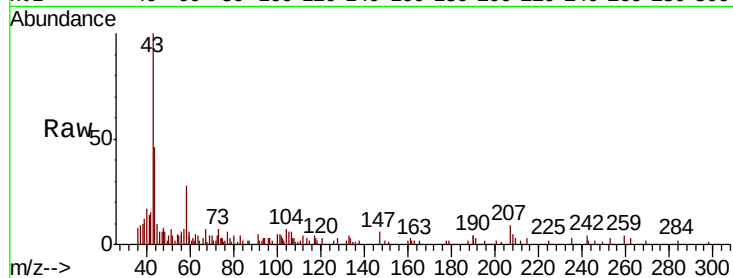




#16
Acetone
Concen: 2.167 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017649.D
Acq: 28 Jul 2020 13:37

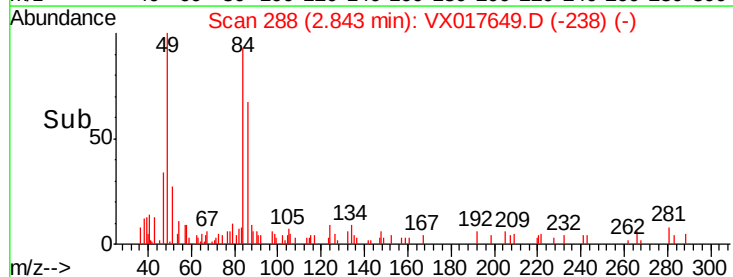
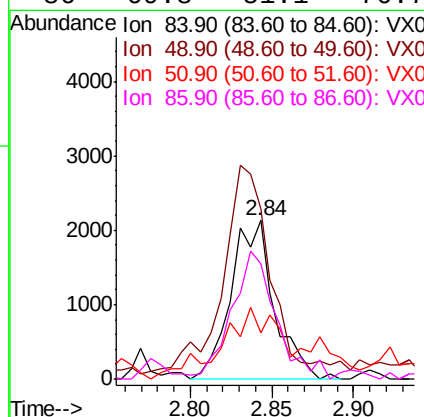
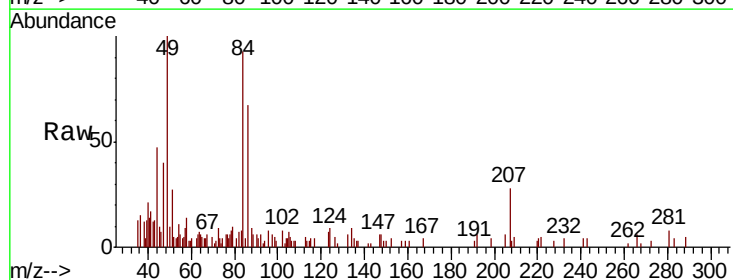
Instrument :
MSVOA_X
ClientSampleId :

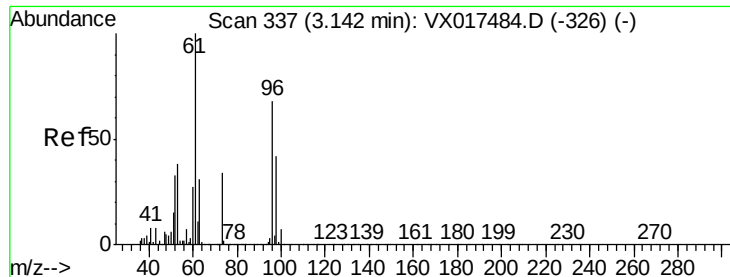
Tot Ion: 43 Resp: 6435
Ion Ratio Lower Upper
43 100
58 25.1 24.2 36.4



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX017649.D
Acq: 28 Jul 2020 13:37

Tgt Ion: 84 Resp: 3926
Ion Ratio Lower Upper
84 100
49 96.1 100.3 150.5#
51 15.9 30.5 45.7#
86 69.8 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: 0.906 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX017649.D

Acq: 28 Jul 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

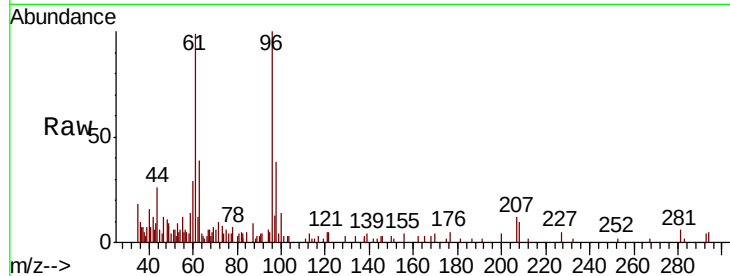
Tot Ion: 96 Resp: 5268

Ion Ratio Lower Upper

96 100

61 94.2 113.0 169.4#

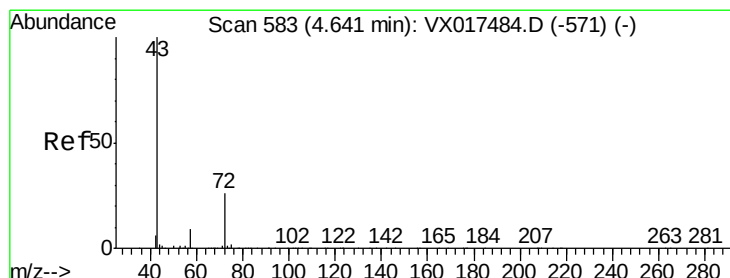
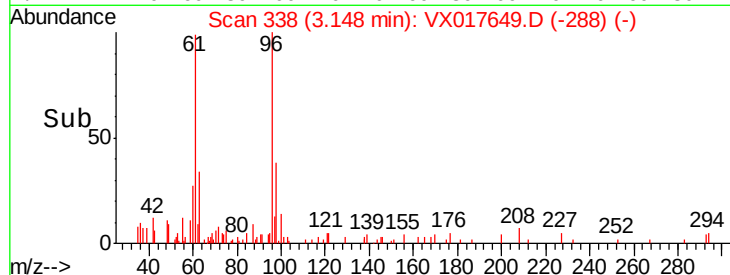
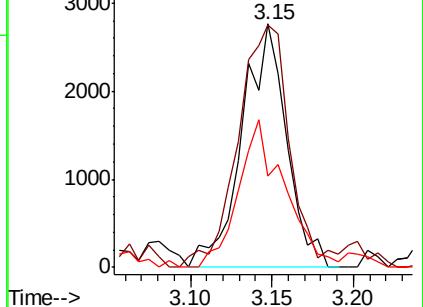
98 37.7 51.8 77.8#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.479 ug/l

RT: 4.67 min Scan# 587

Delta R.T. 0.02 min

Lab File: VX017649.D

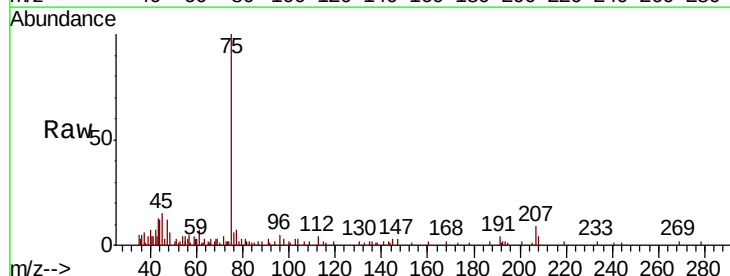
Acq: 28 Jul 2020 13:37

Tgt Ion: 43 Resp: 2020

Ion Ratio Lower Upper

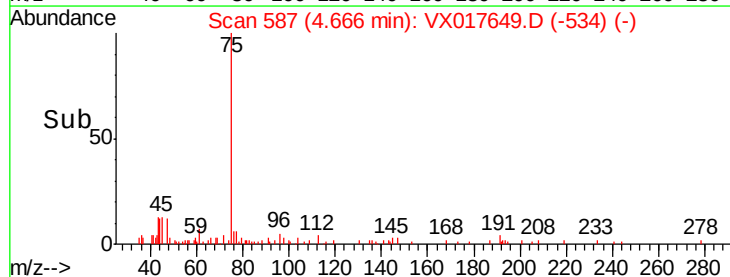
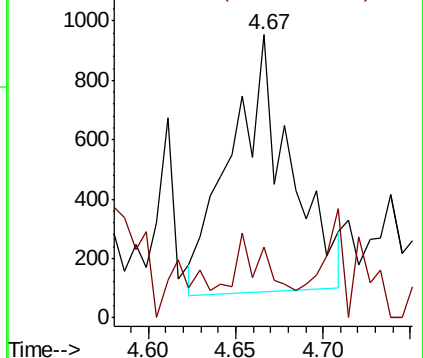
43 100

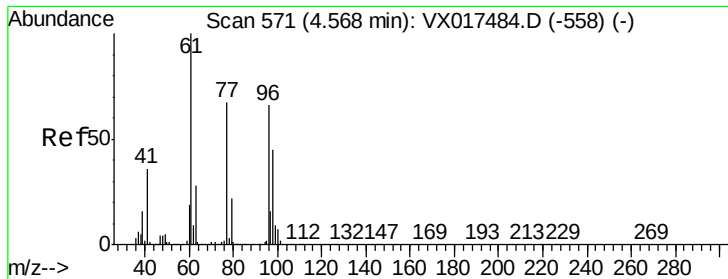
72 32.9 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



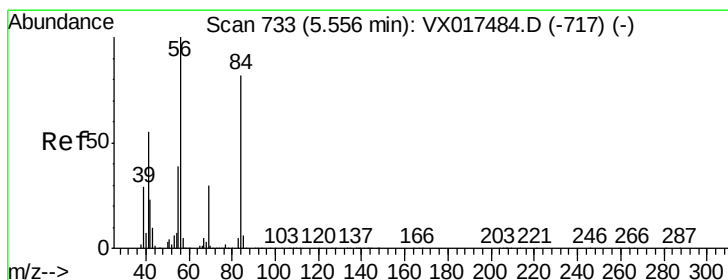
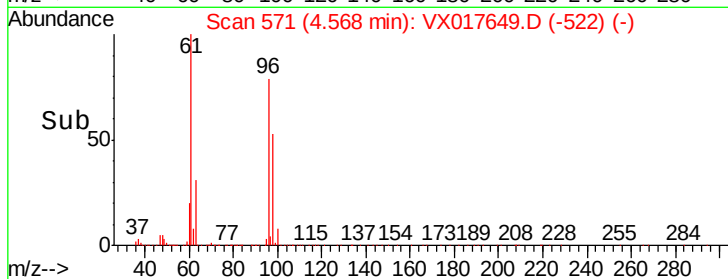
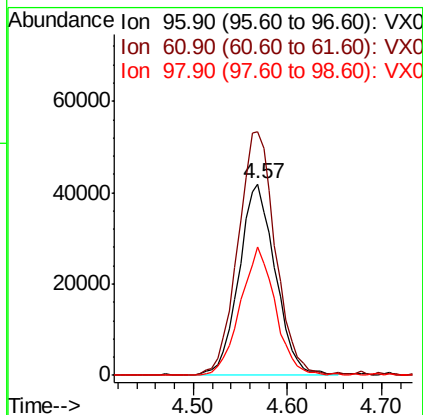
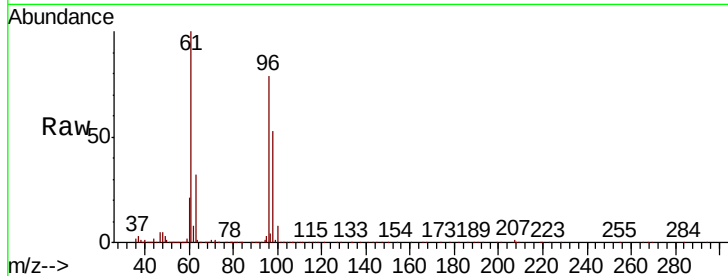


#27

cis-1,2-Dichloroethene
 Concen: 17.672 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX017649.D
 Acq: 28 Jul 2020 13:37

Instrument :
 MSVOA_X
 ClientSampleId :

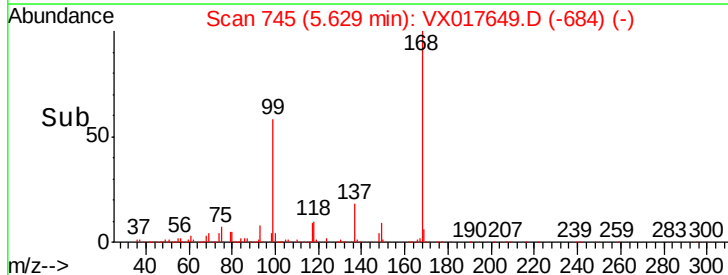
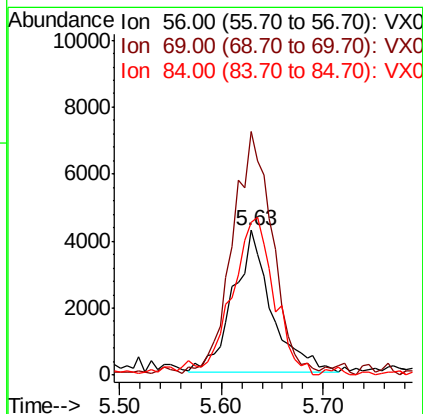
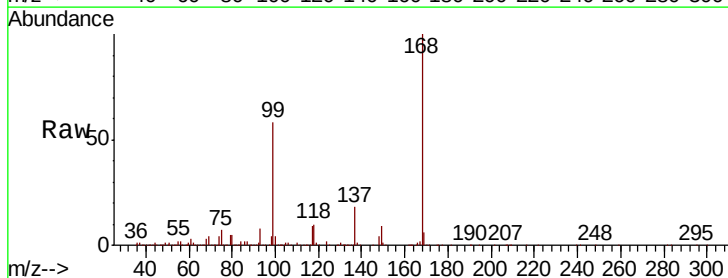
Tot Ion	Ratio	Lower	Upper
96	100		
61	132.1	0.0	301.2
98	65.7	0.0	130.0

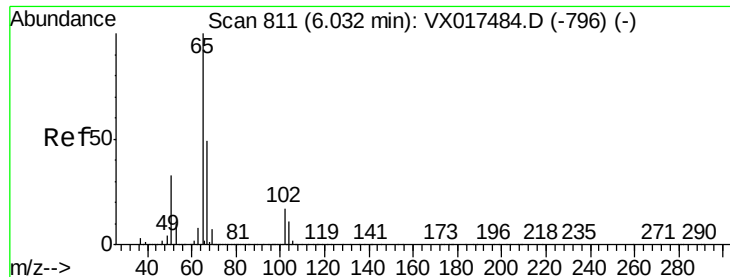


#31

Cyclohexane
 Concen: 1.322 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. 0.07 min
 Lab File: VX017649.D
 Acq: 28 Jul 2020 13:37

Tgt Ion	Ratio	Lower	Upper
56	100		
69	168.0	24.2	36.4#
84	102.9	69.0	103.6

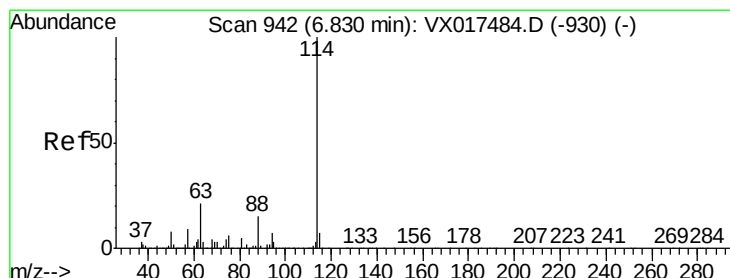
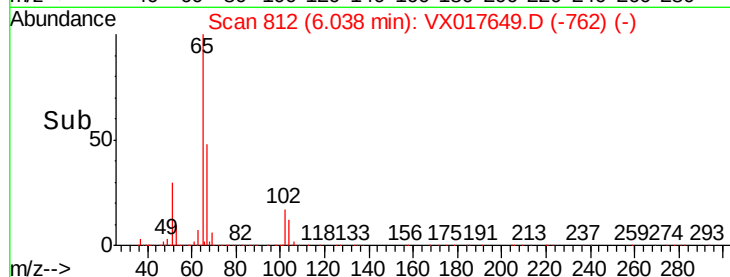
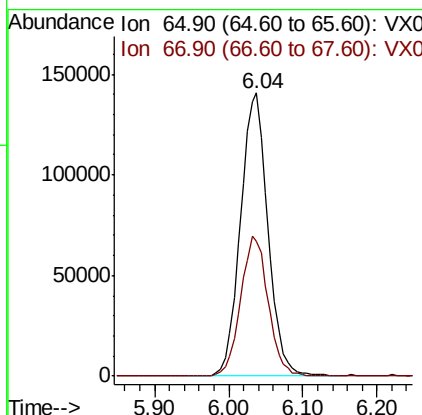
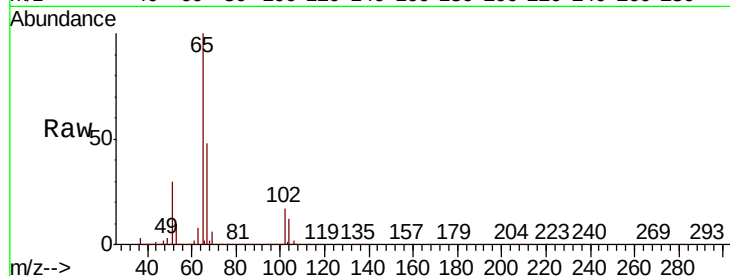




#33
 1,2-Dichloroethane-d4
 Concen: 53.686 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017649.D
 Acq: 28 Jul 2020 13:37

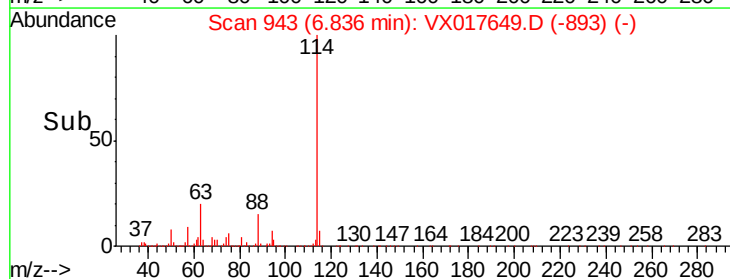
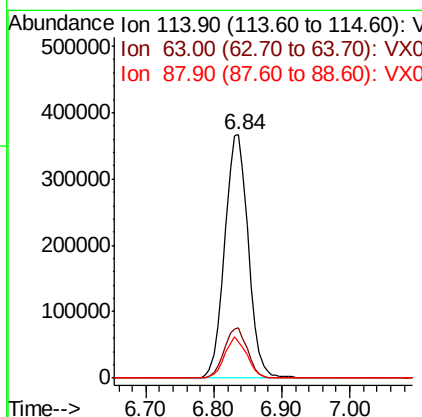
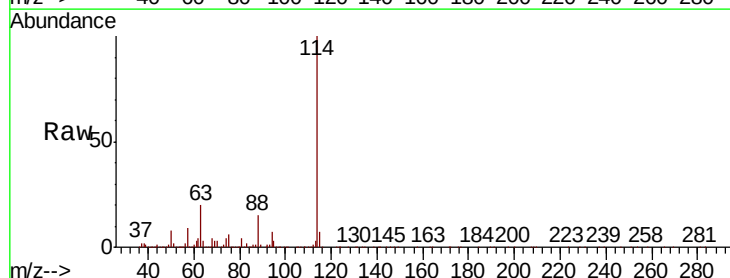
Instrument :
 MSVOA_X
 ClientSampleId :

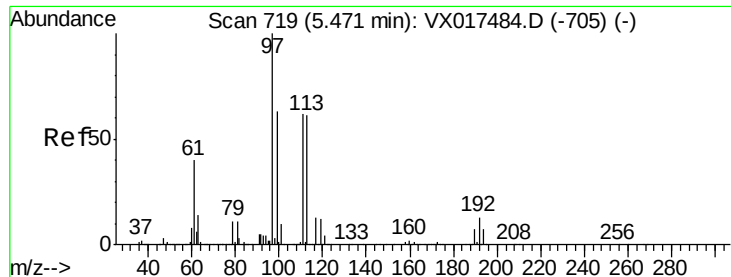
Tot Ion: 65 Resp: 362268
 Ion Ratio Lower Upper
 65 100
 67 49.7 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017649.D
 Acq: 28 Jul 2020 13:37

Tgt Ion: 114 Resp: 878906
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.6
 88 15.2 0.0 33.4

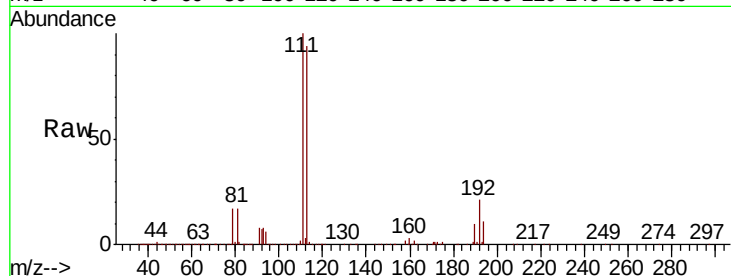




#35
 Dibromofluoromethane
 Concen: 50.578 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017649.D
 Acq: 28 Jul 2020 13:37

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	80.7	121.1
192	21.0	16.9	25.3

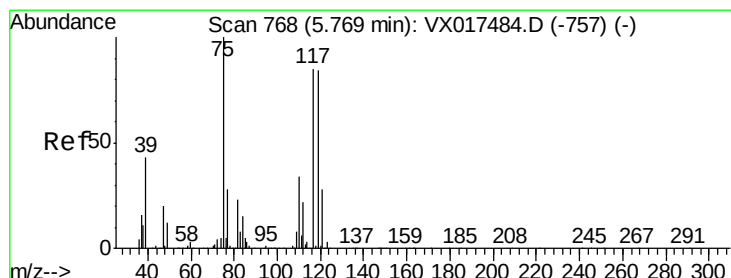
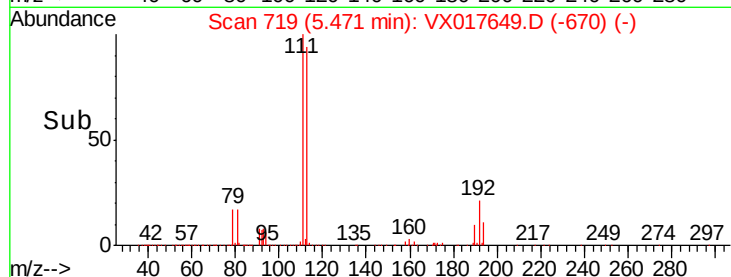
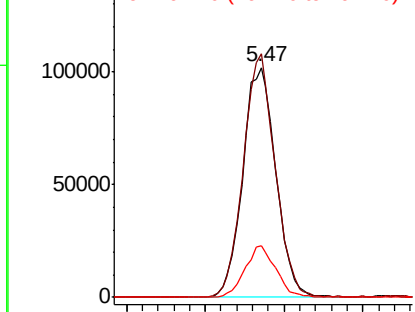


Abundance

Ion 112.80 (112.50 to 113.50): V

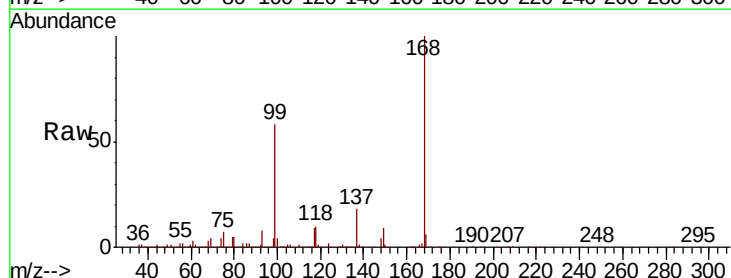
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.517 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017649.D
 Acq: 28 Jul 2020 13:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.7	18.1	54.3#
77	0.4	24.6	37.0#

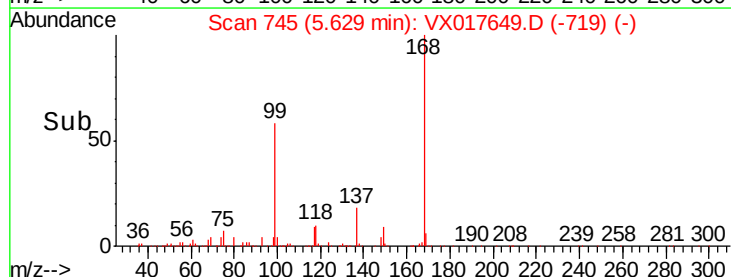
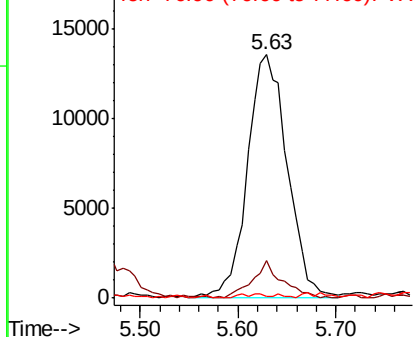


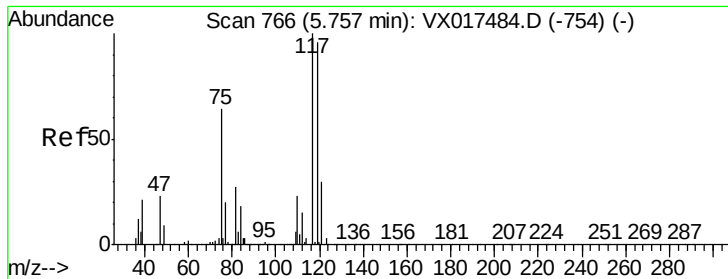
Abundance

Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.206 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017649.D

Acq: 28 Jul 2020 13:37

Instrument :

MSVOA_X

ClientSampled :

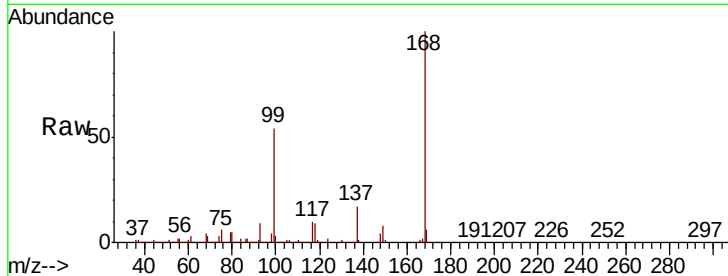
Tot Ion:117 Resp: 53286

Ion Ratio Lower Upper

117 100

119 7.2 75.4 113.0#

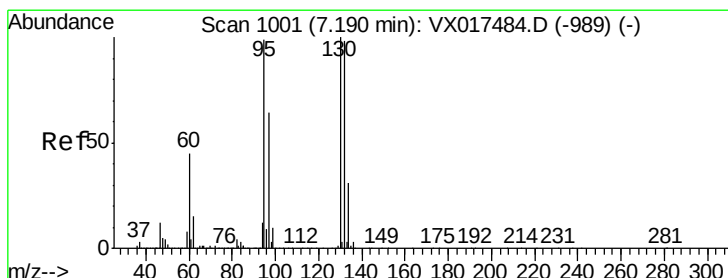
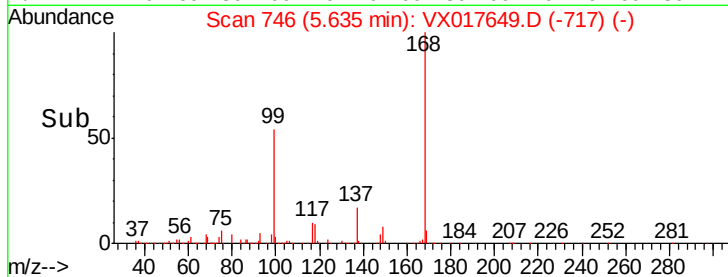
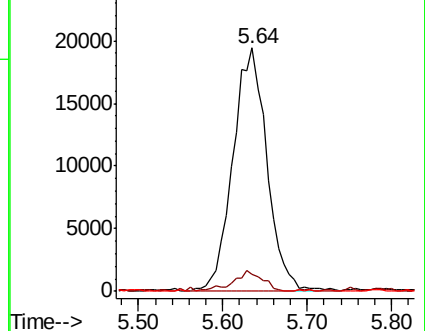
121 0.0 24.3 36.5#



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



#44

Trichloroethene

Concen: 0.243 ug/l

RT: 7.18 min Scan# 1000

Delta R.T. -0.01 min

Lab File: VX017649.D

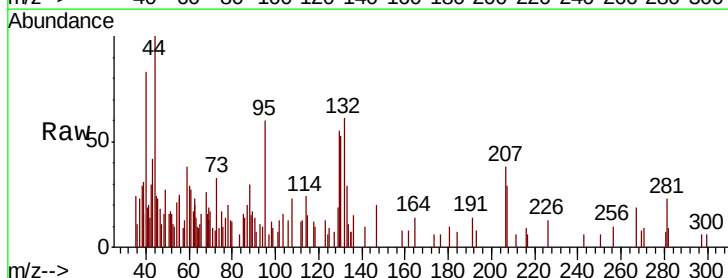
Acq: 28 Jul 2020 13:37

Tgt Ion:130 Resp: 1719

Ion Ratio Lower Upper

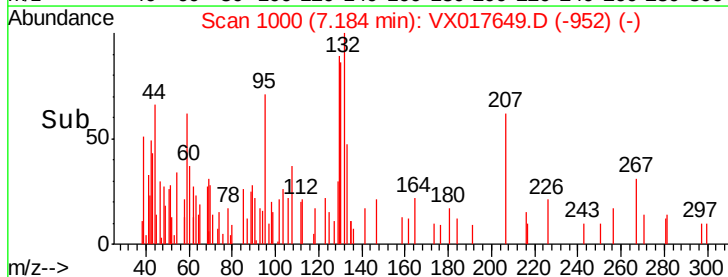
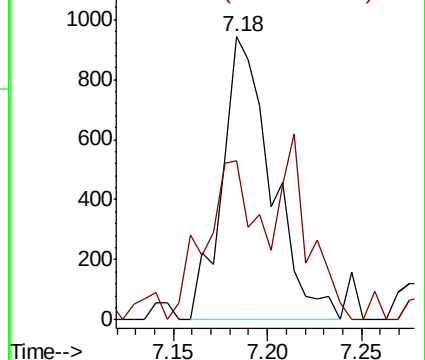
130 100

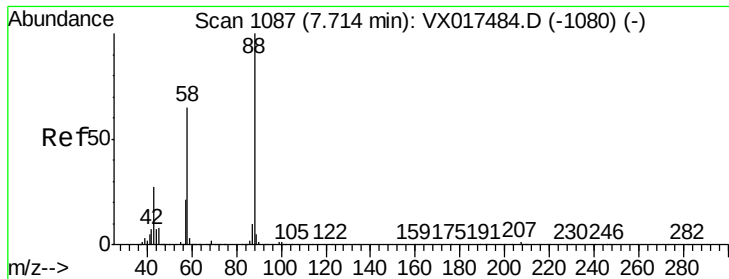
95 50.4 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 3.430 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

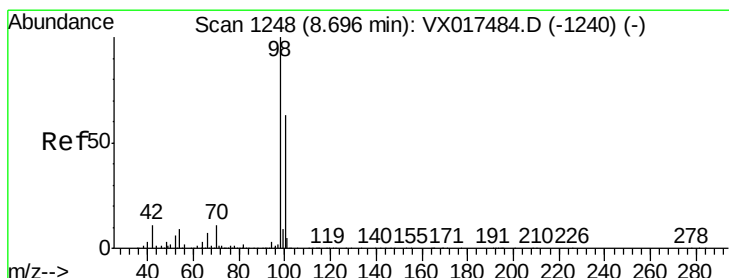
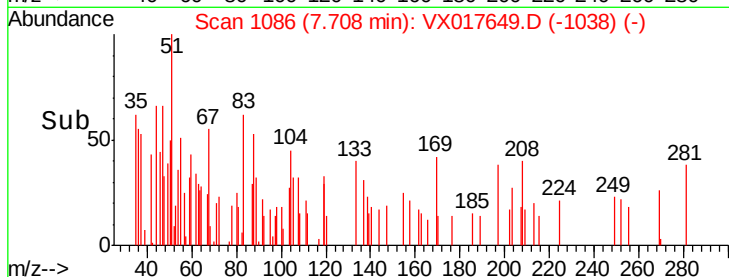
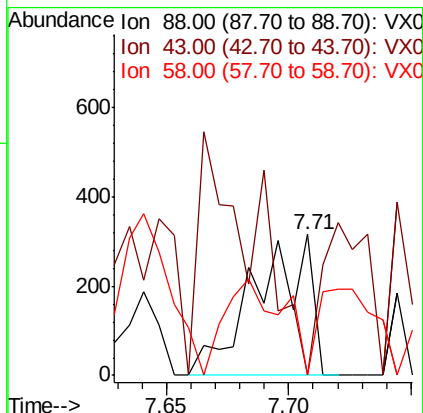
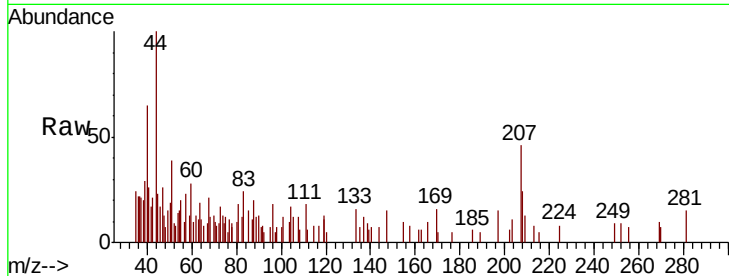
Lab File: VX017649.D

Acq: 28 Jul 2020 13:37

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 496

Ion	Ratio	Lower	Upper
88	100		
43	87.5	27.8	41.6#
58	62.1	58.3	87.5



#50

Toluene-d8

Concen: 51.675 ug/l

RT: 8.70 min Scan# 1248

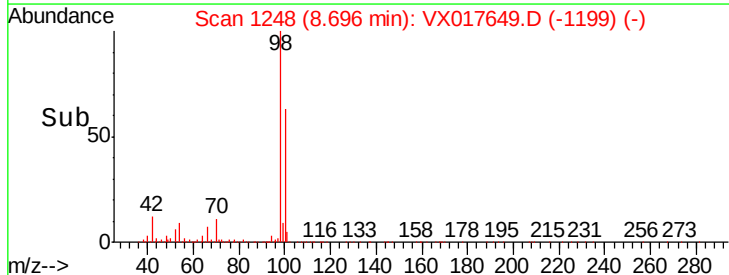
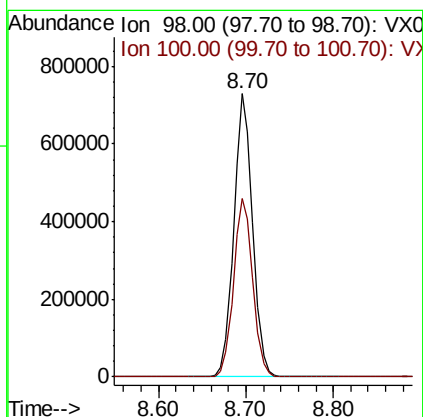
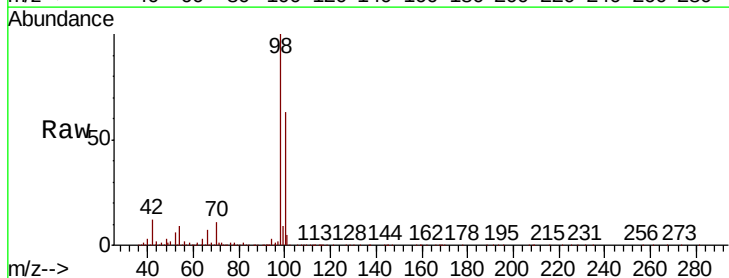
Delta R.T. -0.00 min

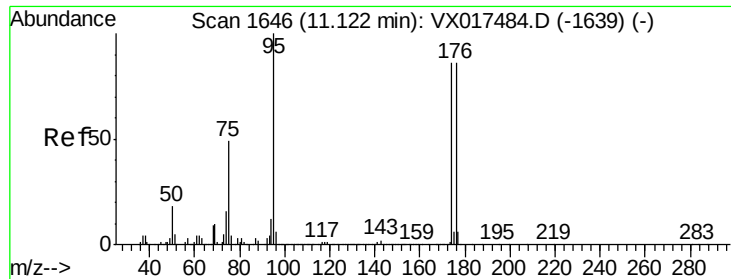
Lab File: VX017649.D

Acq: 28 Jul 2020 13:37

Tgt Ion: 98 Resp: 1095778

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.3	78.5

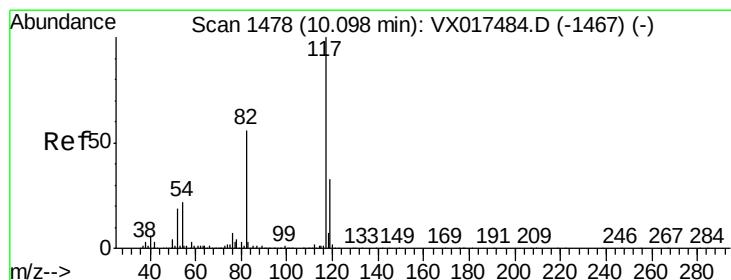
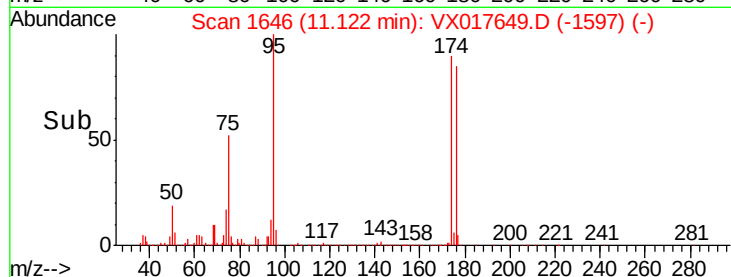
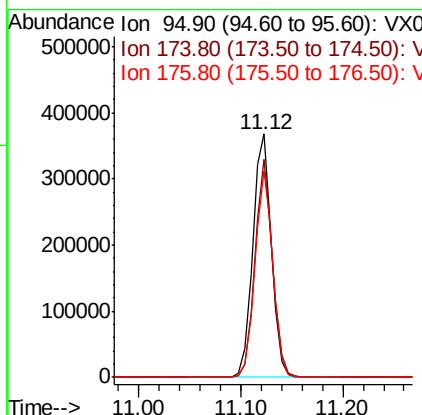
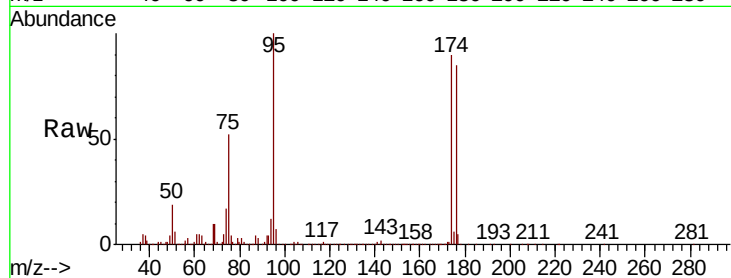




#62
4-Bromofluorobenzene
Concen: 55.431 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017649.D
Acq: 28 Jul 2020 13:37

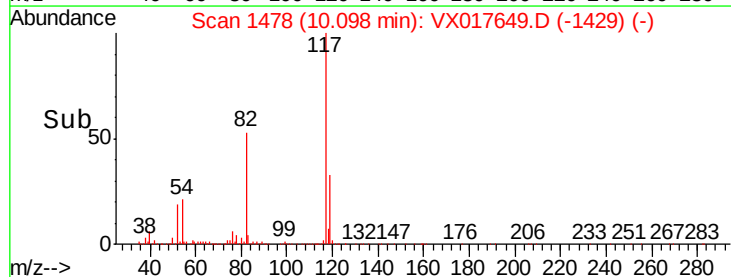
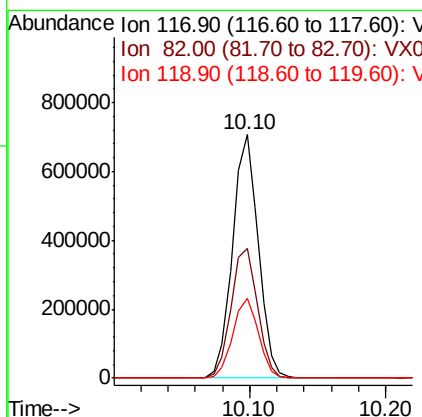
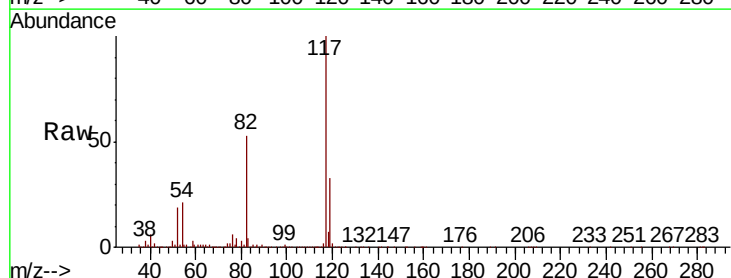
Instrument :
MSVOA_X
ClientSampleId :

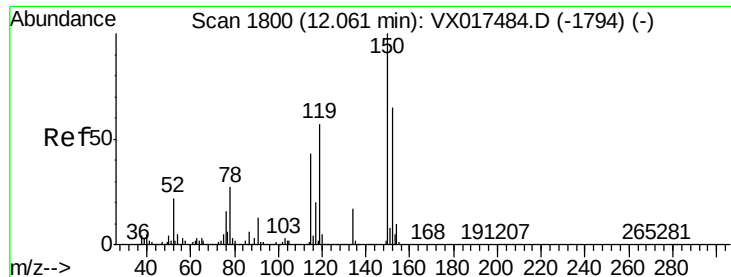
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.4	0.0	169.0
176	81.9	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017649.D
Acq: 28 Jul 2020 13:37

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.3	44.0	66.0
119	32.9	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017649.D

Acq: 28 Jul 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

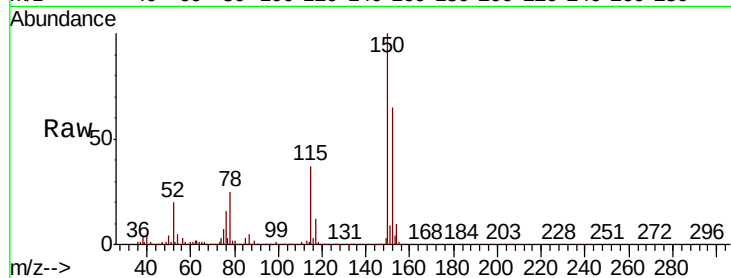
Tot Ion:152 Resp: 497873

Ion Ratio Lower Upper

152 100

115 57.7 65.5 196.6#

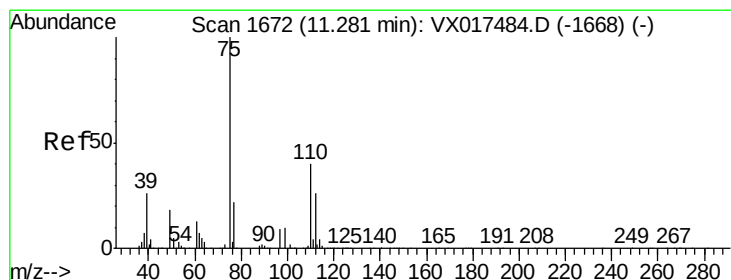
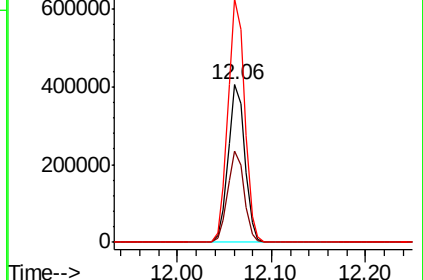
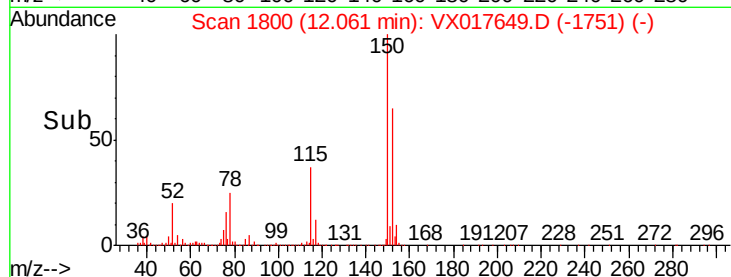
150 154.9 0.0 412.6



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: 23.408 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017649.D

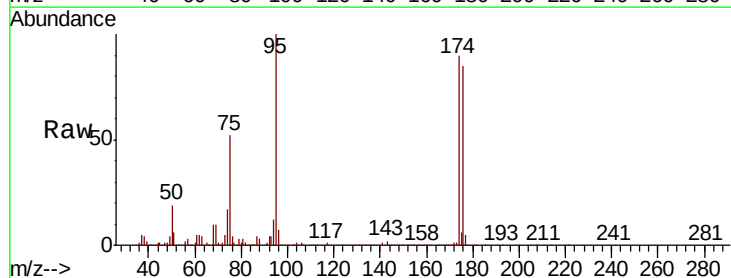
Acq: 28 Jul 2020 13:37

Tgt Ion: 75 Resp: 239730

Ion Ratio Lower Upper

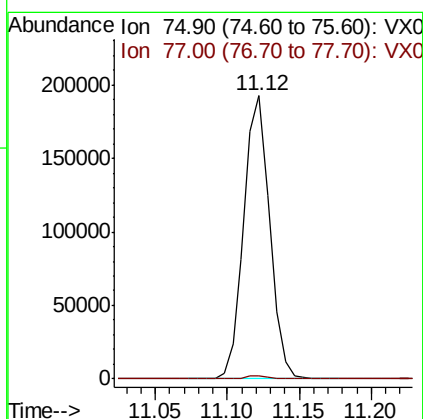
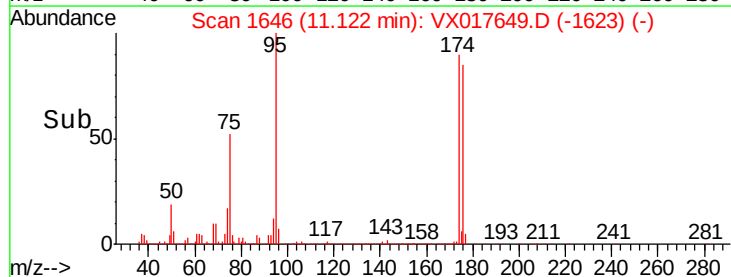
75 100

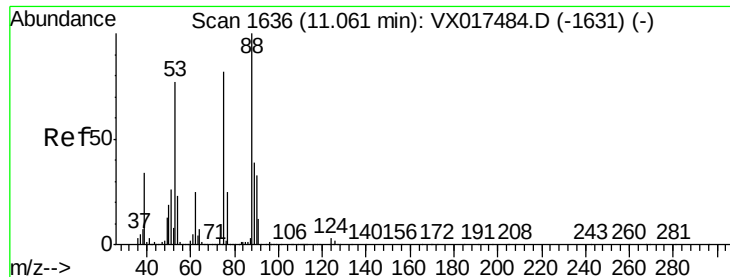
77 1.2 21.8 65.3#



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: 58.982 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017649.D

Acq: 28 Jul 2020 13:37

Instrument :

MSVOA_X

ClientSampled :

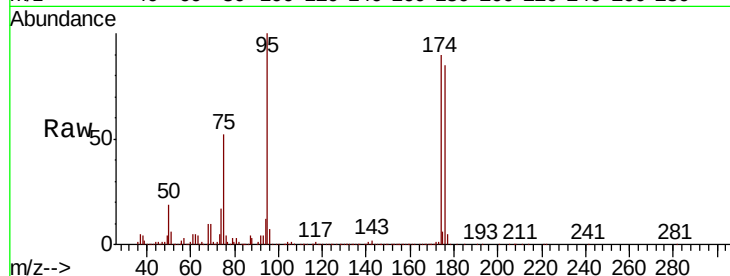
Tot Ion: 75 Resp: 239730

Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

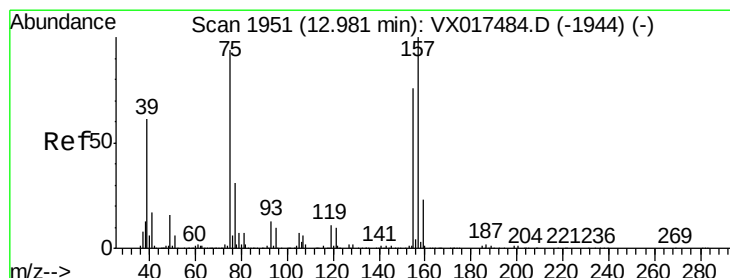
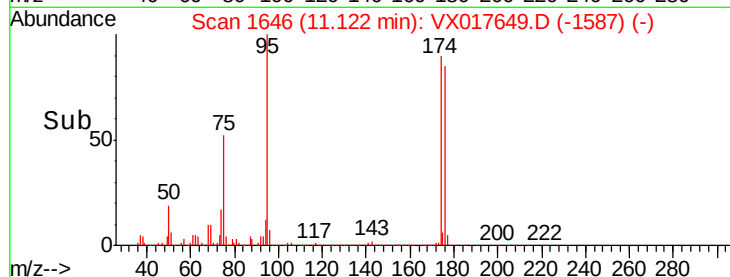
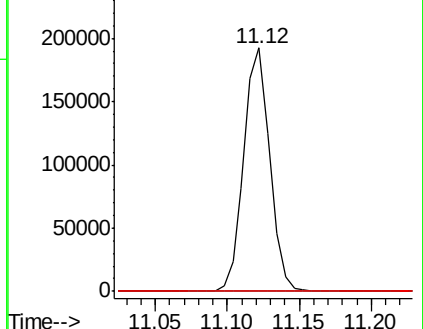
89 0.0 37.8 56.6#



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: 2.651 ug/l

RT: 12.98 min Scan# 1950

Delta R.T. -0.01 min

Lab File: VX017649.D

Acq: 28 Jul 2020 13:37

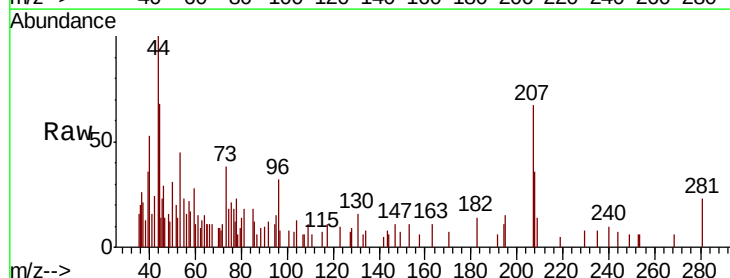
Tgt Ion: 75 Resp: 235

Ion Ratio Lower Upper

75 100

155 39.1 42.3 126.8#

157 29.4 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

