

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017102.D
 Acq On : 01 Jul 2020 16:46
 Operator : JC/SP
 Sample : L3163-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 I-LGC-3

Quant Time: Jul 02 01:37:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

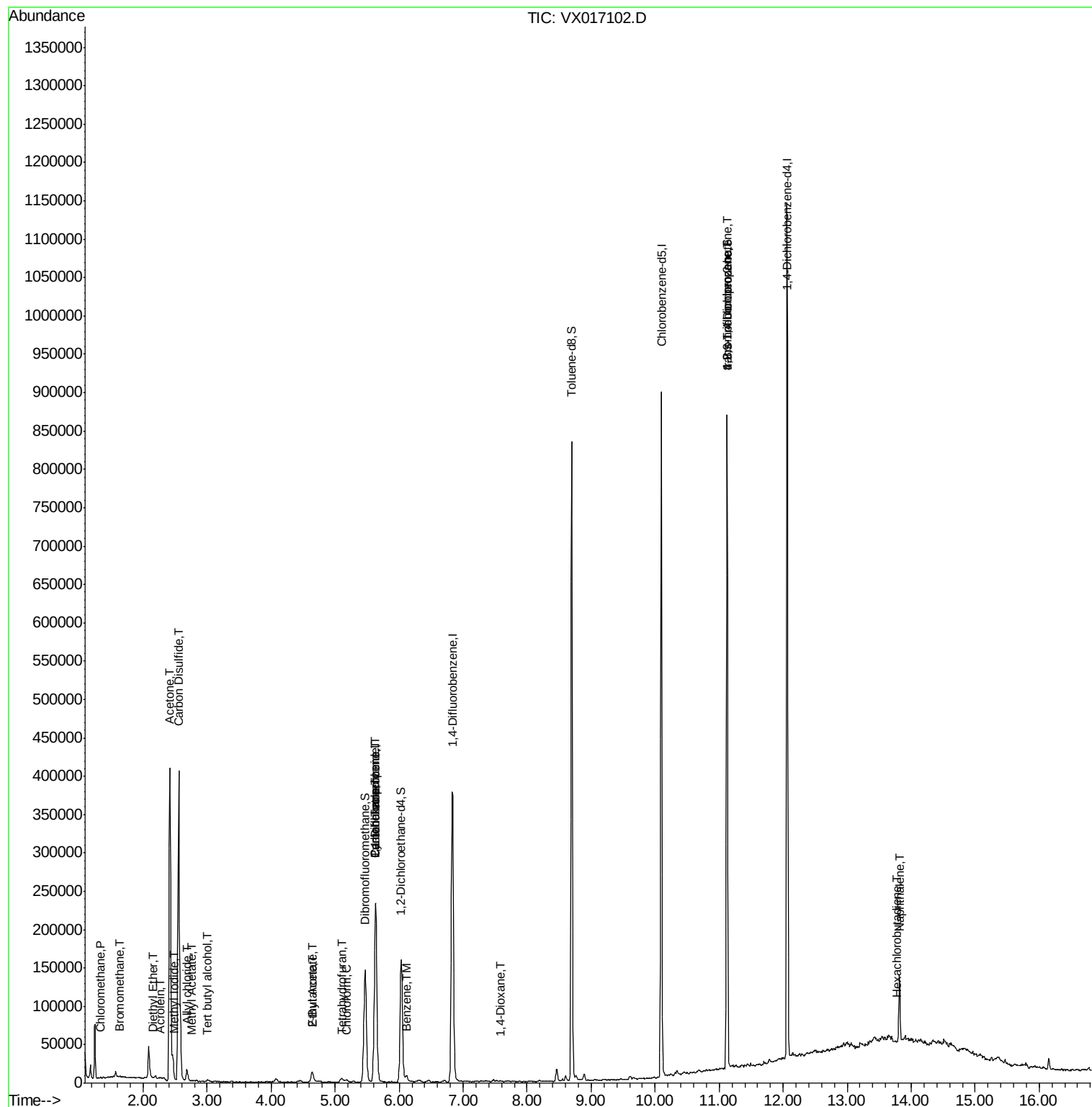
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	228566	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	389826	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	412010	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	230888	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	151950	53.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.86%	
35) Dibromofluoromethane	5.46	113	128184	51.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.96%	
50) Toluene-d8	8.70	98	474301	52.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.04%	
62) 4-Bromofluorobenzene	11.12	95	214691	60.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.46%	
Target Compounds				Qvalue		
3) Chloromethane	1.32	50	855	0.319	ug/l #	80
5) Bromomethane	1.64	94	628	0.479	ug/l #	62
8) Diethyl Ether	2.16	74	19	0.381	ug/l #	1
10) Methyl Iodide	2.50	142	798	0.281	ug/l	92
11) Tert butyl alcohol	3.00	59	2858	5.317	ug/l	96
13) Acrolein	2.27	56	426	1.326	ug/l	90
14) Allyl chloride	2.68	41	15564	3.724	ug/l #	46
16) Acetone	2.42	43	433377	411.135	ug/l	96
17) Carbon Disulfide	2.55	76	501719	79.494	ug/l	99
18) Methyl Acetate	2.75	43	1347	0.490	ug/l	96
20) Methylene Chloride	2.83	84	588	Below Cal	#	83
25) 2-Butanone	4.64	43	21378	12.171	ug/l #	89
29) Tetrahydrofuran	5.09	42	3249	2.800	ug/l #	67
30) Chloroform	5.19	83	2880	0.638	ug/l #	81
31) Cyclohexane	5.62	56	4262	1.120	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	16376	4.445	ug/l #	50
37) Ethyl Acetate	4.64	43	21378	5.719	ug/l #	69
38) Carbon Tetrachloride	5.63	117	22240	5.481	ug/l #	17
40) Benzene	6.12	78	8916	0.824	ug/l	98
44) Trichloroethene	7.18	130	134	Below Cal		40
49) 1,4-Dioxane	7.59	88	51	0.763	ug/l #	67
76) 1,2,3-Trichloropropane	11.12	75	106460	23.448	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	106460	60.722	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	505	Below Cal		86
94) Hexachlorobutadiene	13.77	225	57	0.875	ug/l #	51
95) Naphthalene	13.82	128	51245	3.500	ug/l #	95

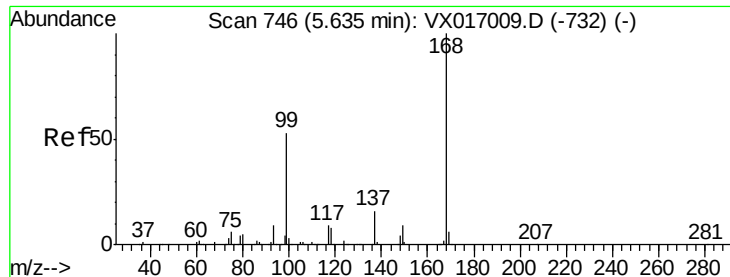
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

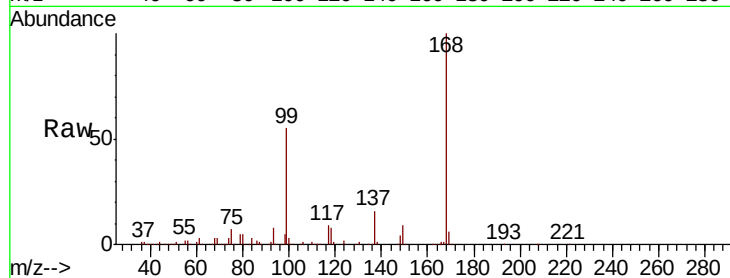
I-LGC-3

Tot Ion:168 Resp: 228566

Ion Ratio Lower Upper

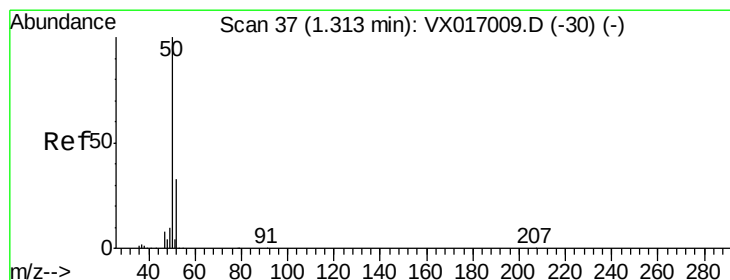
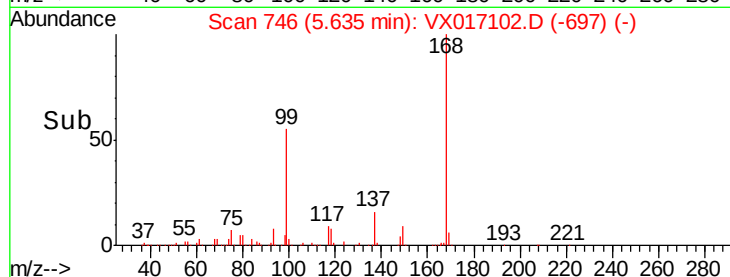
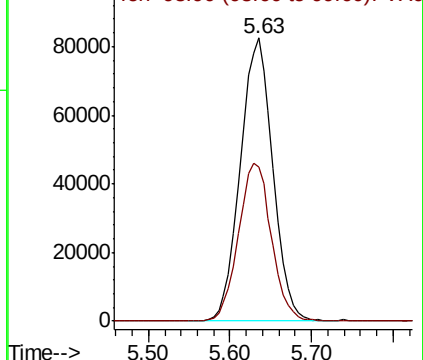
168 100

99 54.6 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.319 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017102.D

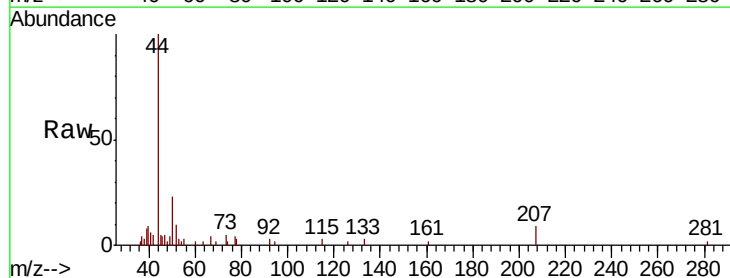
Acq: 01 Jul 2020 16:46

Tgt Ion: 50 Resp: 855

Ion Ratio Lower Upper

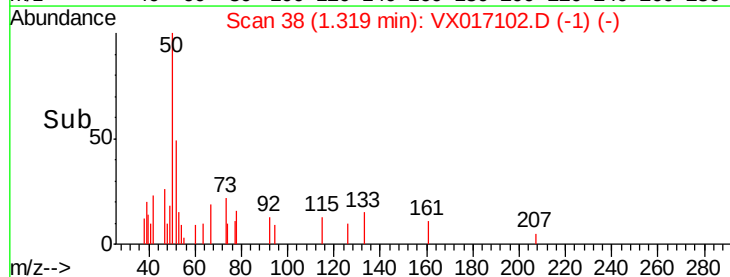
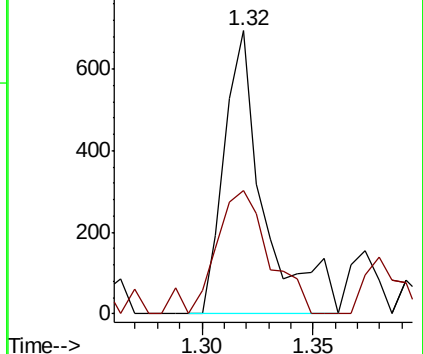
50 100

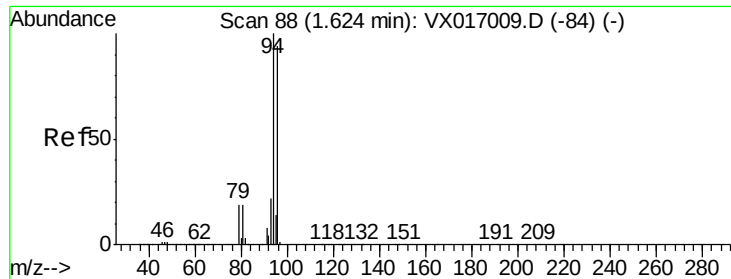
52 43.6 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.479 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampled :

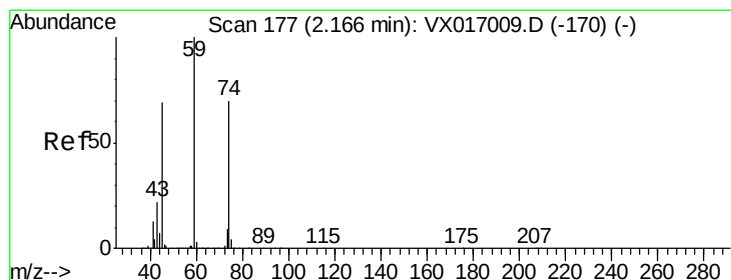
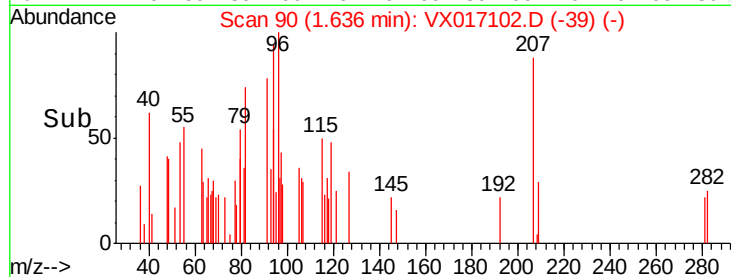
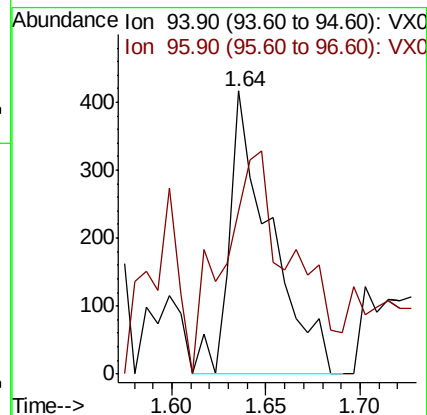
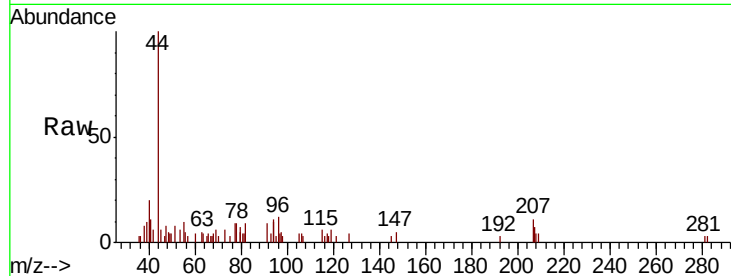
I-LGC-3

Tot Ion: 94 Resp: 628

Ion Ratio Lower Upper

94 100

96 57.6 75.0 112.4#



#8

Diethyl Ether

Concen: 0.381 ug/l

RT: 2.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VX017102.D

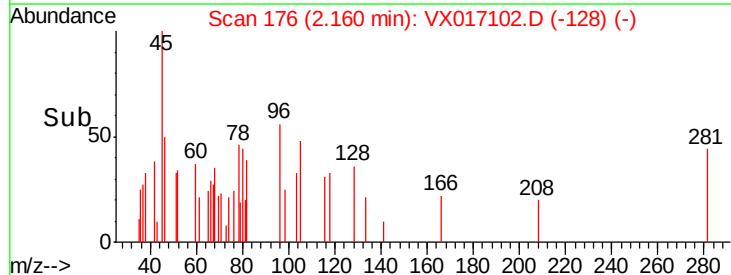
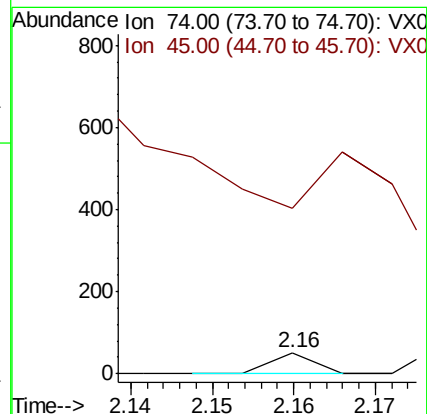
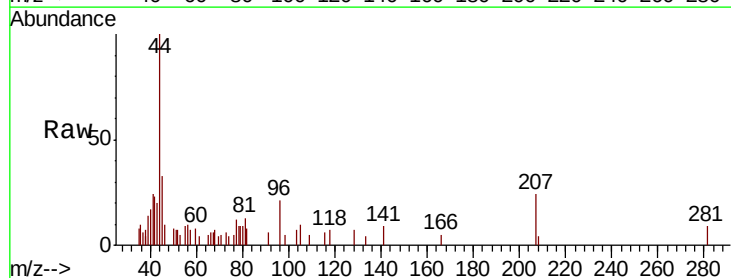
Acq: 01 Jul 2020 16:46

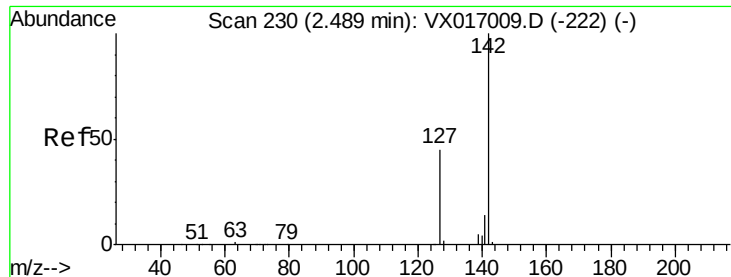
Tgt Ion: 74 Resp: 19

Ion Ratio Lower Upper

74 100

45 0.0 49.8 149.3#

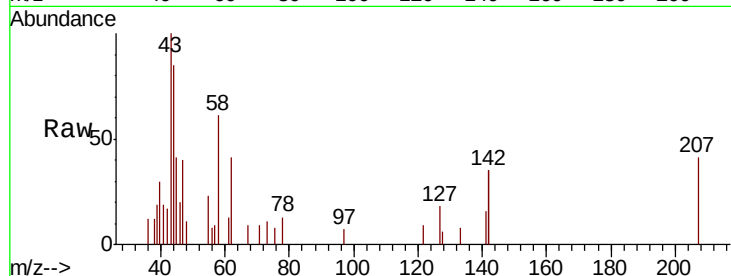




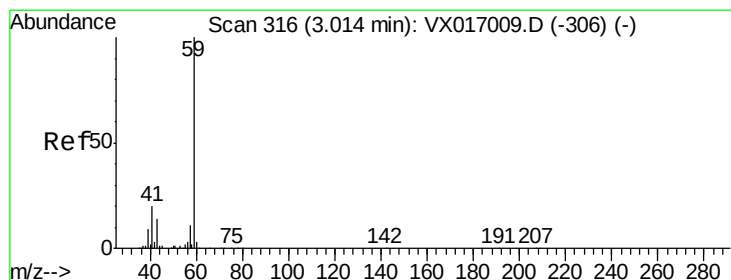
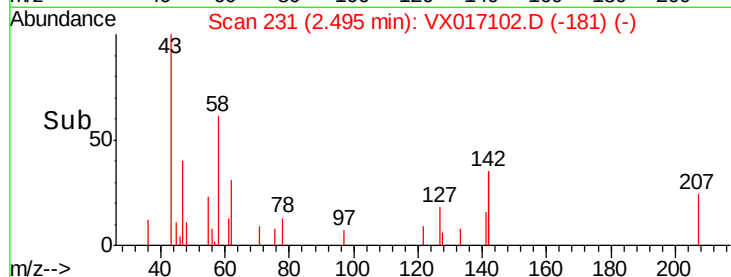
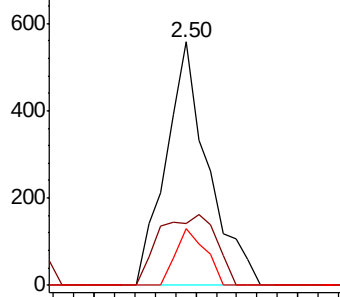
#10
Methyl Iodide
Concen: 0.281 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

Instrument :
MSVOA_X
ClientSampled :
I-LGC-3

Tot Ion: 142 Resp: 798
Ion Ratio Lower Upper
142 100
127 39.3 36.6 54.8
141 16.4 11.6 17.4

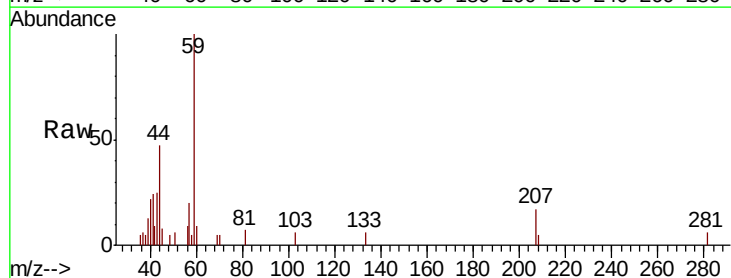


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

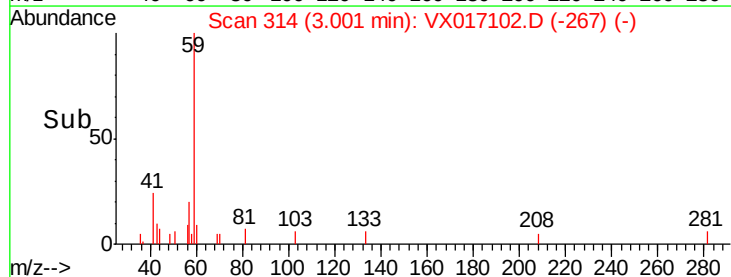
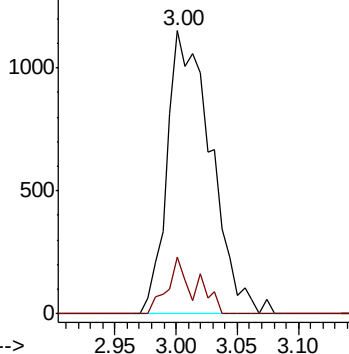


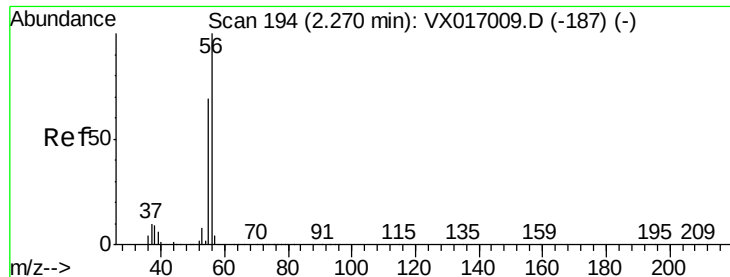
#11
Tert butyl alcohol
Concen: 5.317 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

Tgt Ion: 59 Resp: 2858
Ion Ratio Lower Upper
59 100
57 8.5 8.2 12.2



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





#13

Acrolein

Concen: 1.326 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

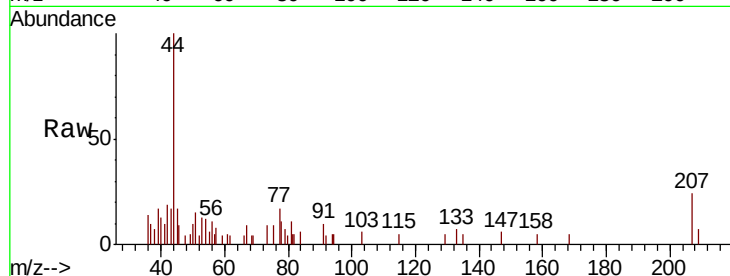
I-LGC-3

Tot Ion: 56 Resp: 426

Ion Ratio Lower Upper

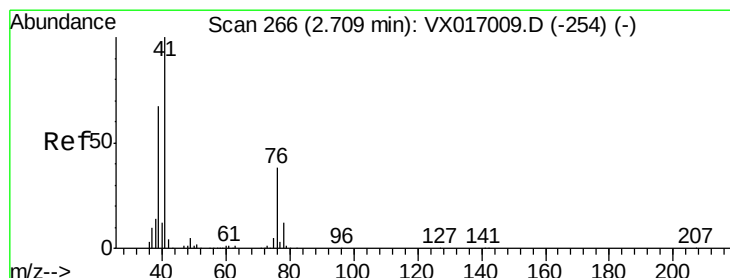
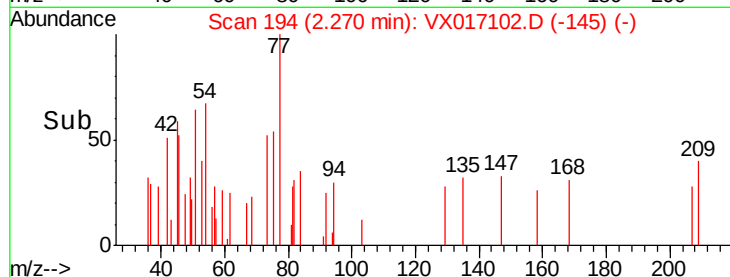
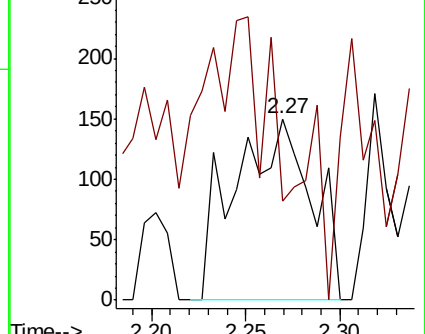
56 100

55 61.7 55.7 83.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 3.724 ug/l

RT: 2.68 min Scan# 262

Delta R.T. -0.02 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

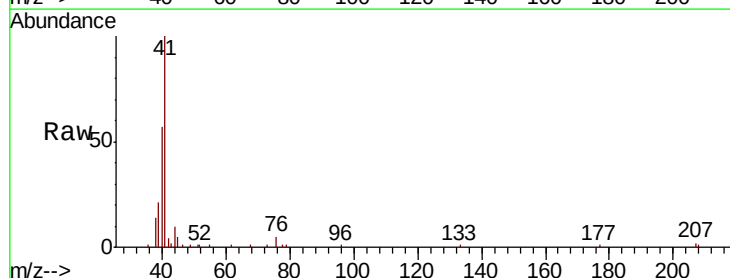
Tgt Ion: 41 Resp: 15564

Ion Ratio Lower Upper

41 100

39 22.6 49.4 74.2#

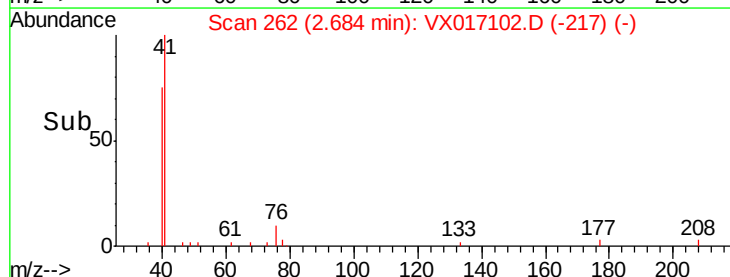
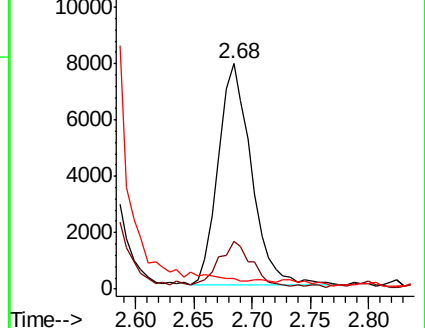
76 0.0 26.8 40.2#

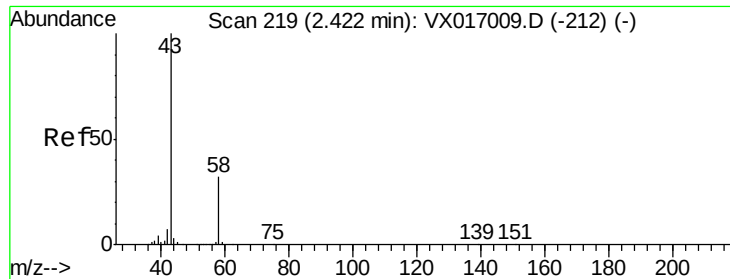


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 411.135 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampled :

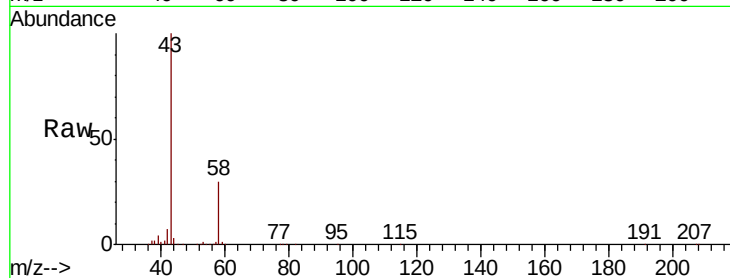
I-LGC-3

Tot Ion: 43 Resp: 433377

Ion Ratio Lower Upper

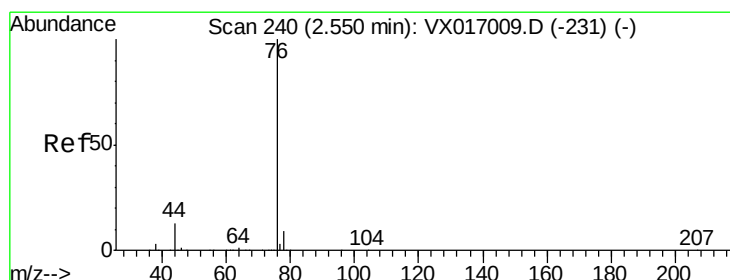
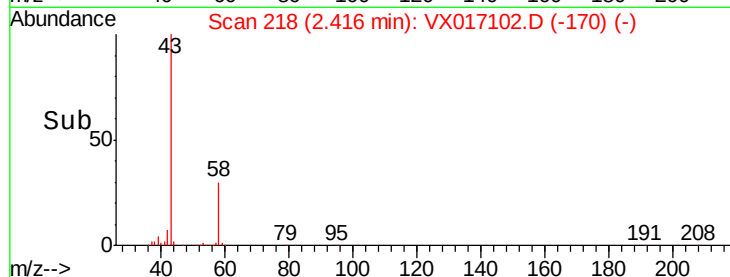
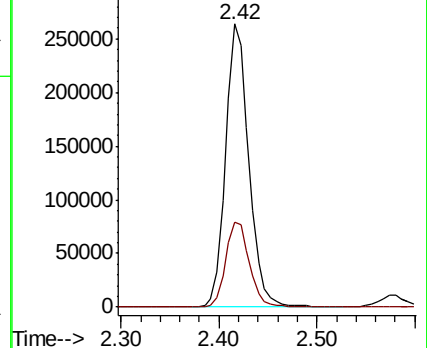
43 100

58 30.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 79.494 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX017102.D

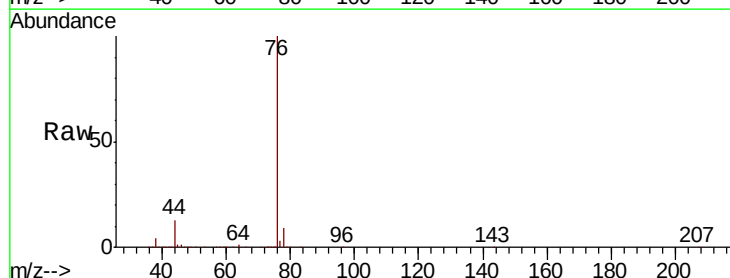
Acq: 01 Jul 2020 16:46

Tgt Ion: 76 Resp: 501719

Ion Ratio Lower Upper

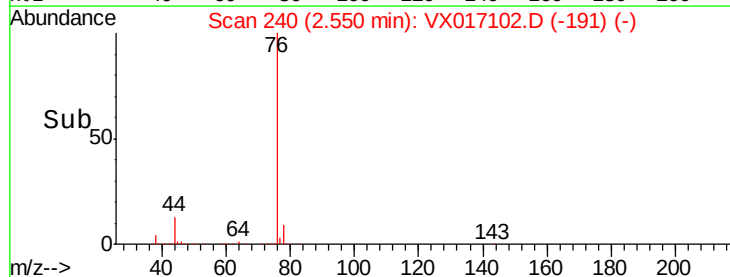
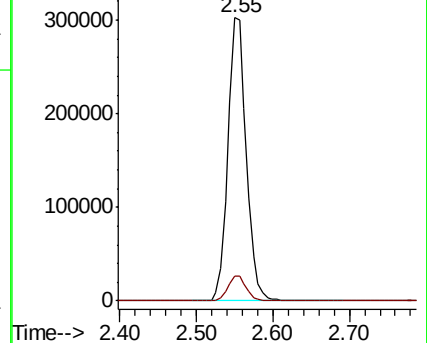
76 100

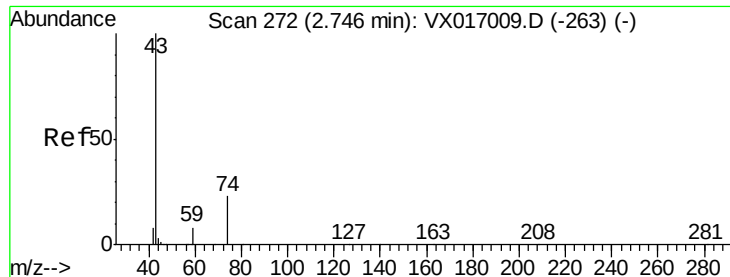
78 8.8 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

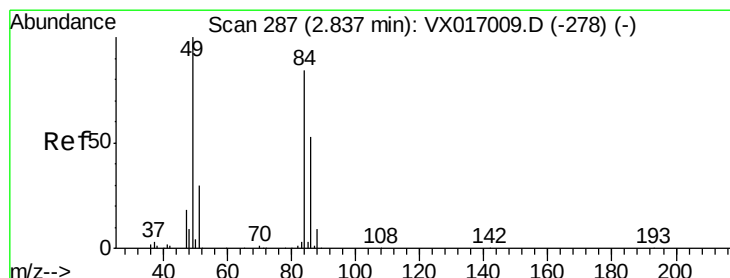
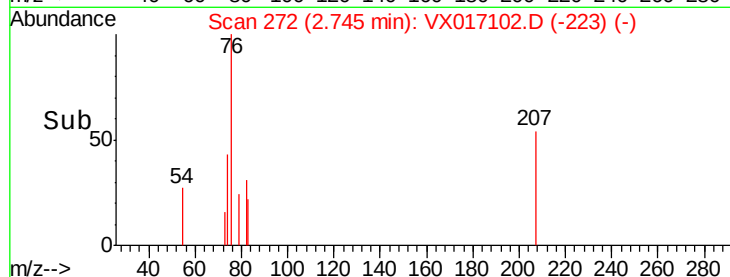
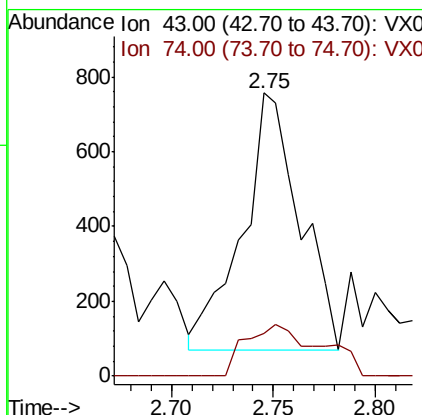
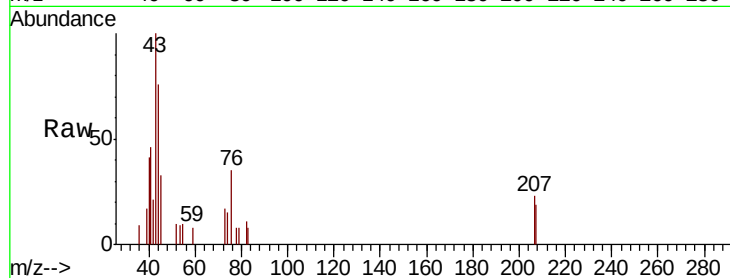




#18
Methvl Acetate
Concen: 0.490 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

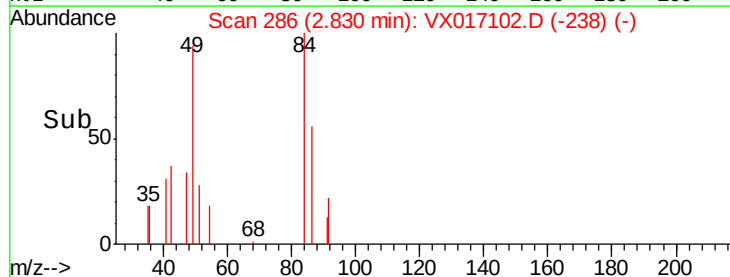
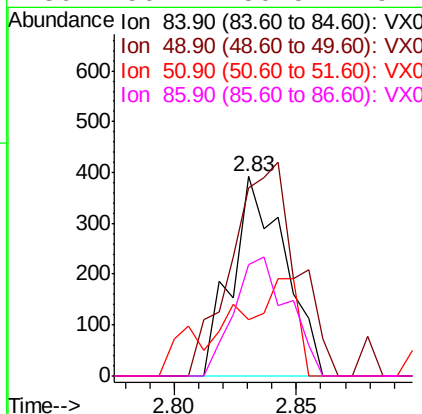
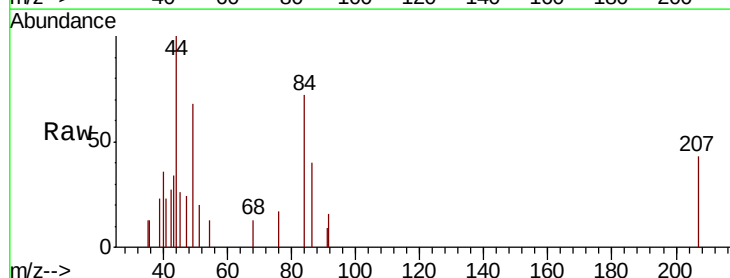
Instrument :
MSVOA_X
ClientSampled :
I-LGC-3

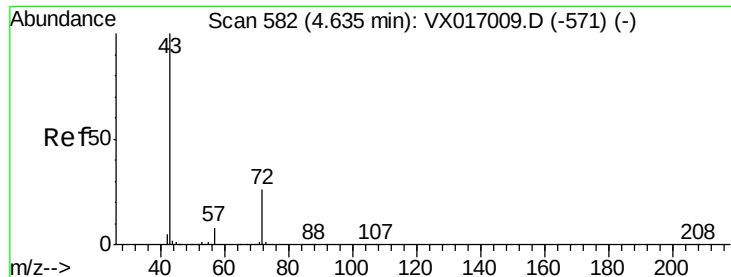
Tot Ion: 43 Resp: 1347
Ion Ratio Lower Upper
43 100
74 26.1 19.3 28.9



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

Tgt Ion: 84 Resp: 588
Ion Ratio Lower Upper
84 100
49 94.4 94.7 142.1#
51 28.3 28.6 42.8#
86 56.1 50.5 75.7





#25

2-Butanone

Concen: 12.171 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

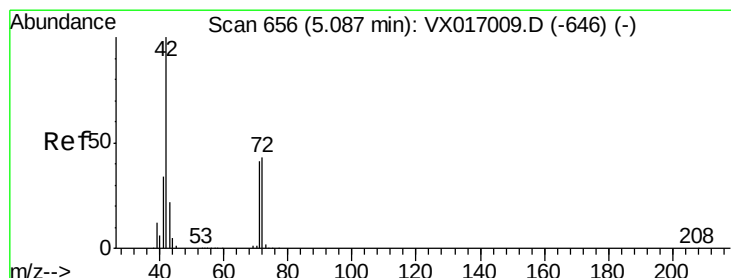
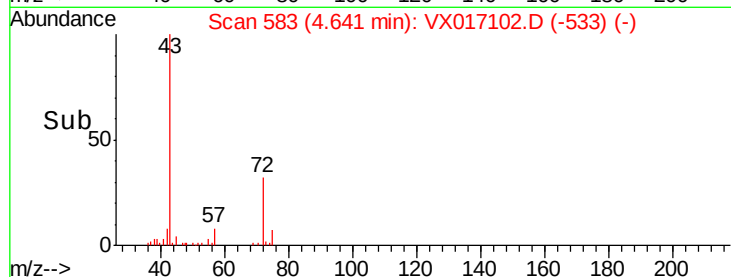
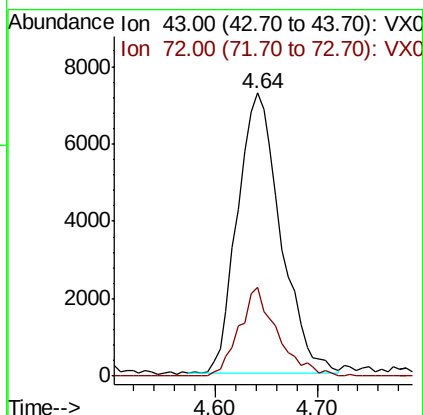
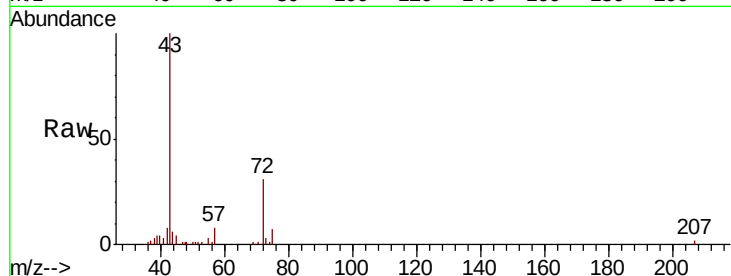
I-LGC-3

Tot Ion: 43 Resp: 21378

Ion Ratio Lower Upper

43 100

72 31.7 20.8 31.2#



#29

Tetrahydrofuran

Concen: 2.800 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

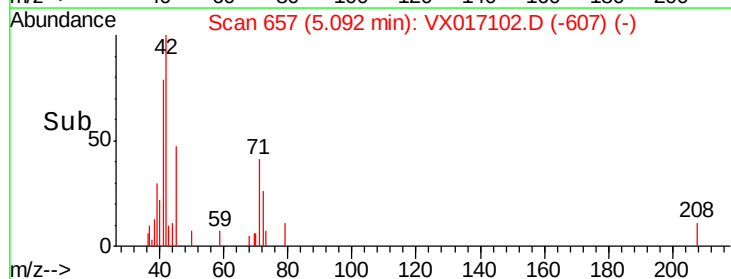
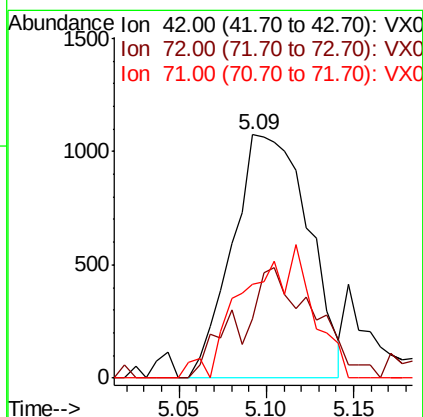
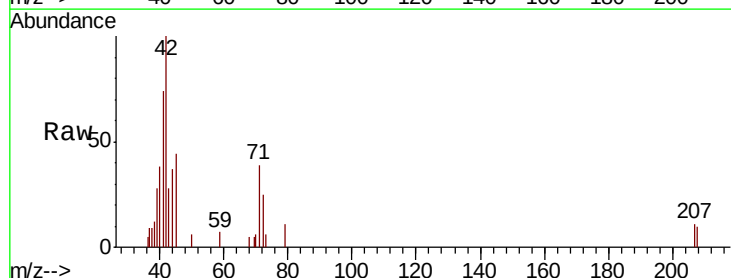
Tgt Ion: 42 Resp: 3249

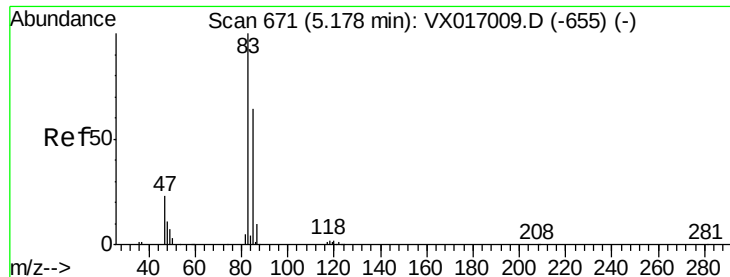
Ion Ratio Lower Upper

42 100

72 45.2 35.3 52.9

71 0.0 33.1 49.7#

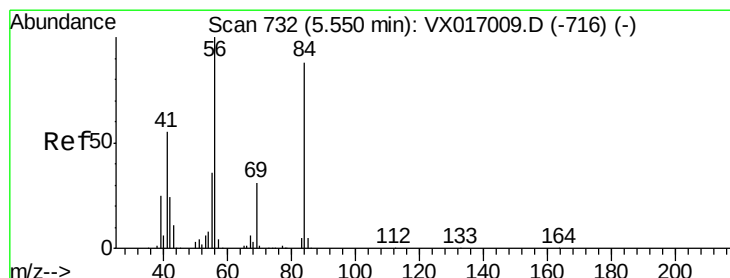
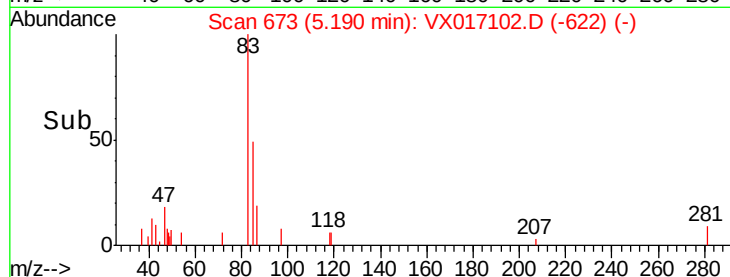
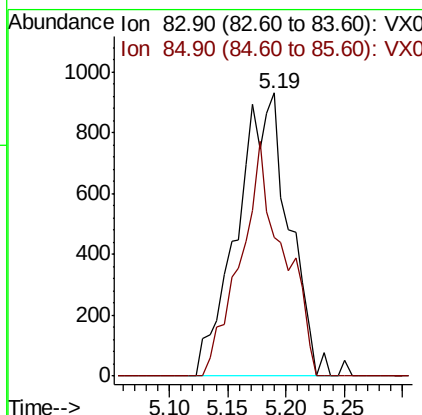
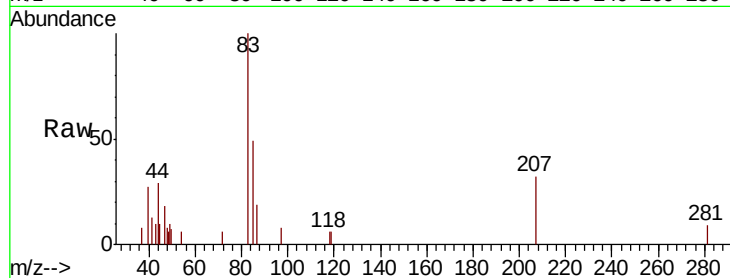




#30
Chloroform
Concen: 0.638 ug/l
RT: 5.19 min Scan# 673
Delta R.T. 0.01 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

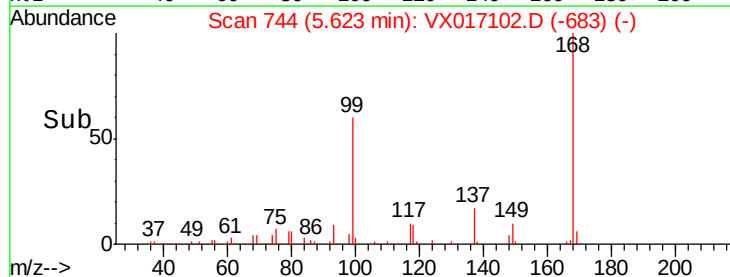
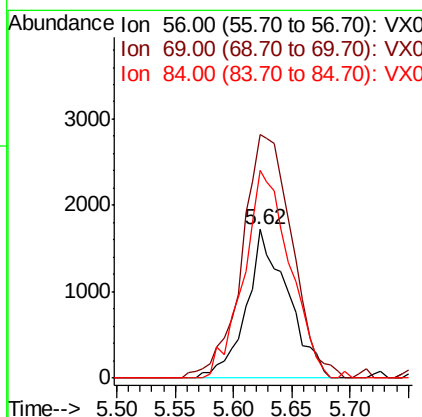
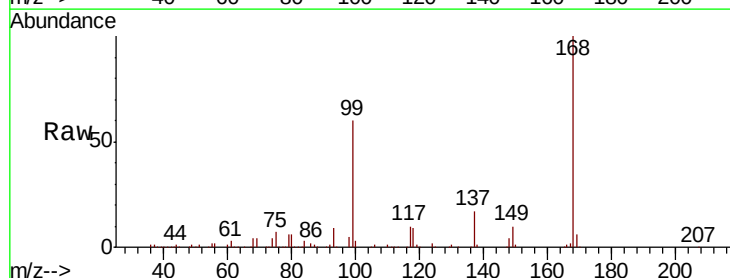
Instrument :
MSVOA_X
ClientSampled :
I-LGC-3

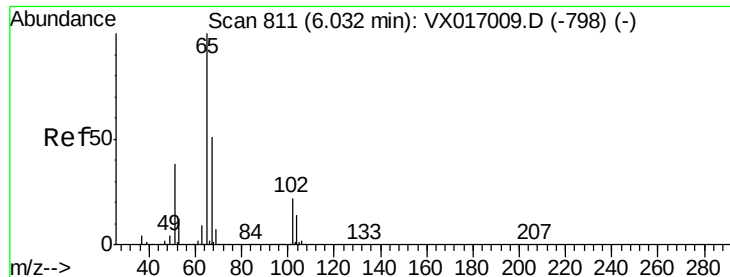
Tot Ion: 83 Resp: 2880
Ion Ratio Lower Upper
83 100
85 49.1 51.4 77.2#



#31
Cyclohexane
Concen: 1.120 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

Tgt Ion: 56 Resp: 4262
Ion Ratio Lower Upper
56 100
69 160.7 25.0 37.4#
84 139.8 69.1 103.7#

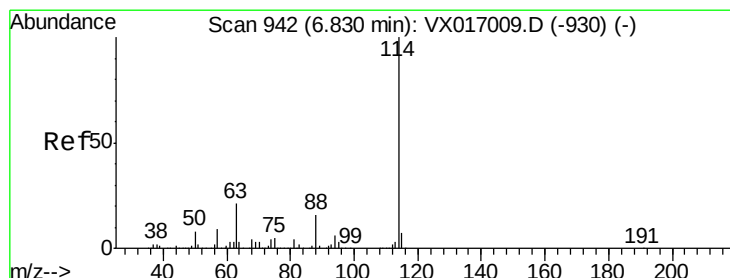
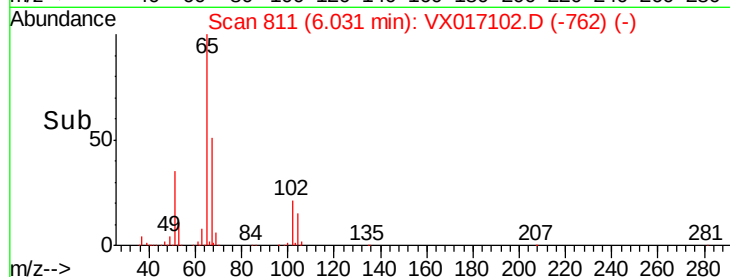
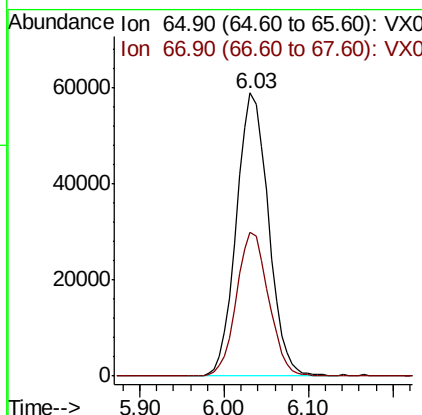
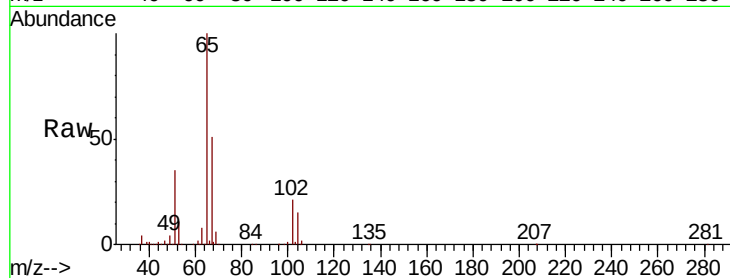




#33
 1,2-Dichloroethane-d4
 Concen: 53.926 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017102.D
 Acq: 01 Jul 2020 16:46

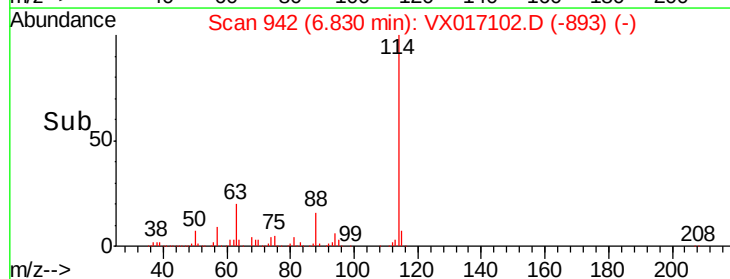
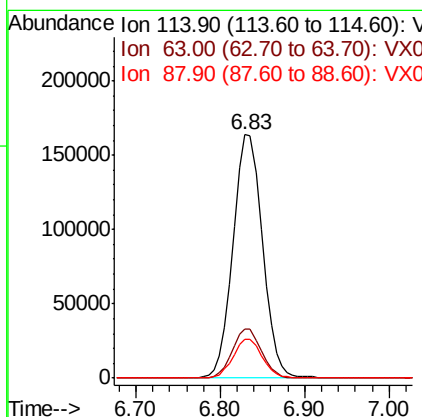
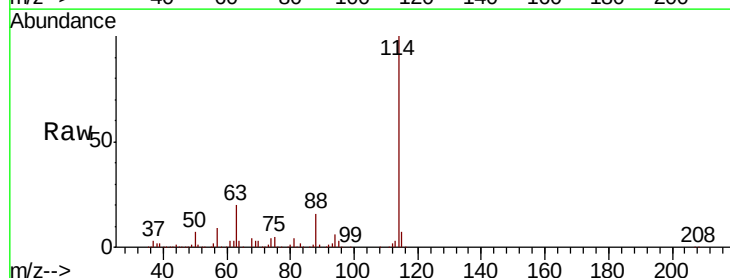
Instrument :
 MSVOA_X
 ClientSampleId :
 I-LGC-3

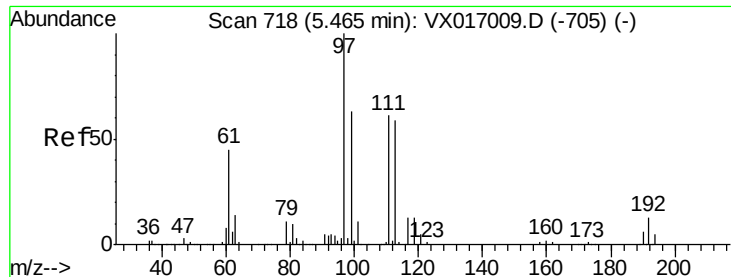
Tot Ion: 65 Resp: 151950
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017102.D
 Acq: 01 Jul 2020 16:46

Tgt Ion: 114 Resp: 389826
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.4
 88 16.1 0.0 32.4





#35

Dibromofluoromethane

Concen: 51.982 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-3

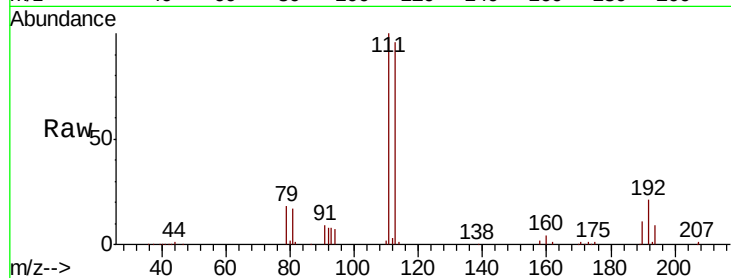
Tot Ion:113 Resp: 128184

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

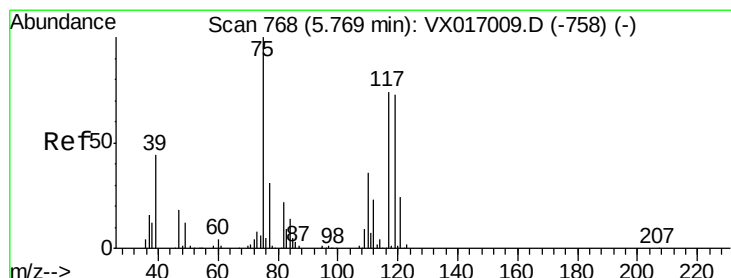
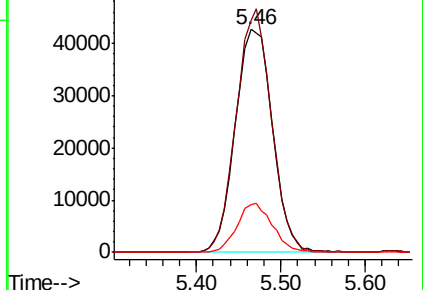
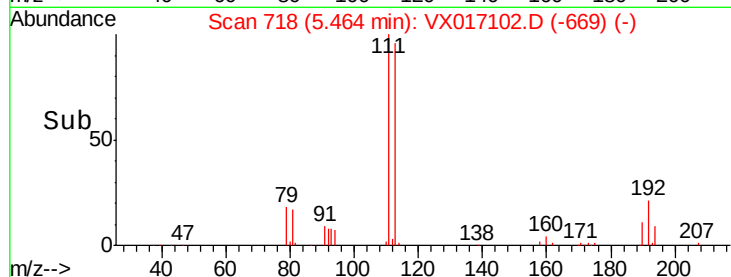
192 20.9 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.445 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

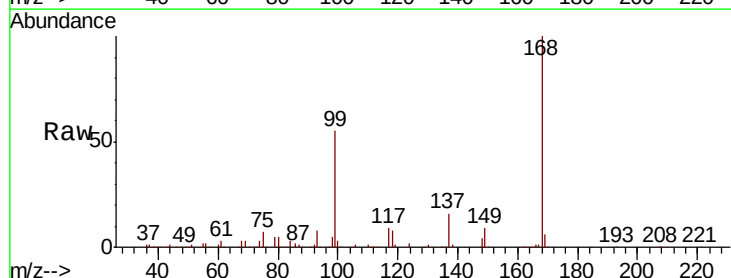
Tgt Ion: 75 Resp: 16376

Ion Ratio Lower Upper

75 100

110 9.7 18.1 54.1#

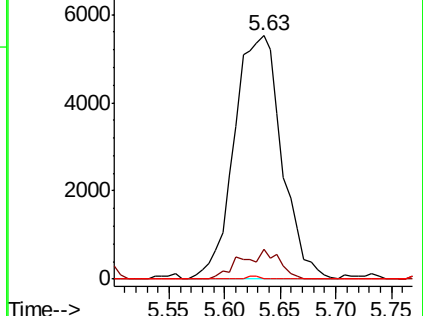
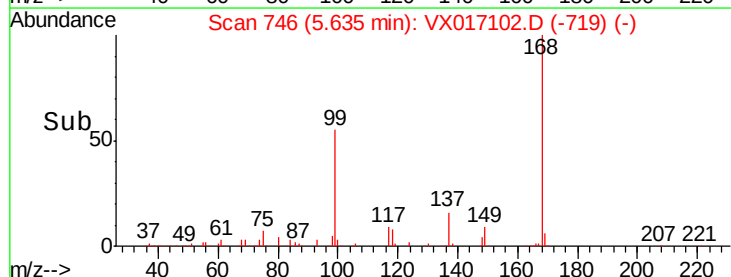
77 0.3 24.6 37.0#

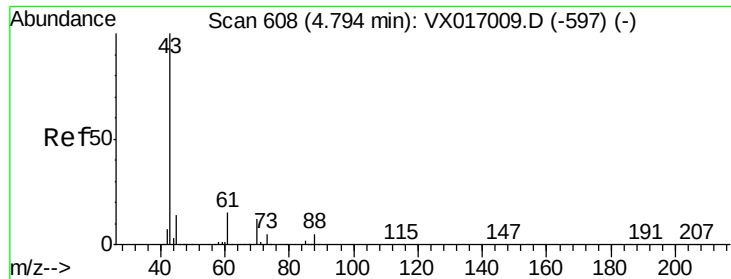


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

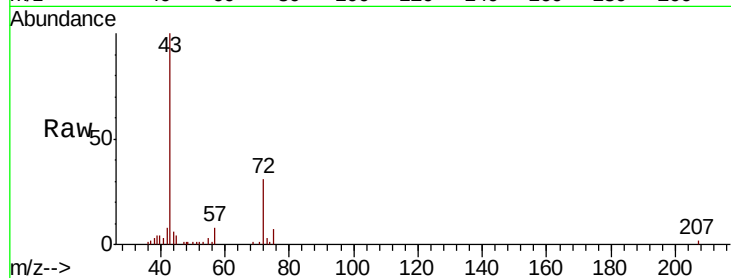




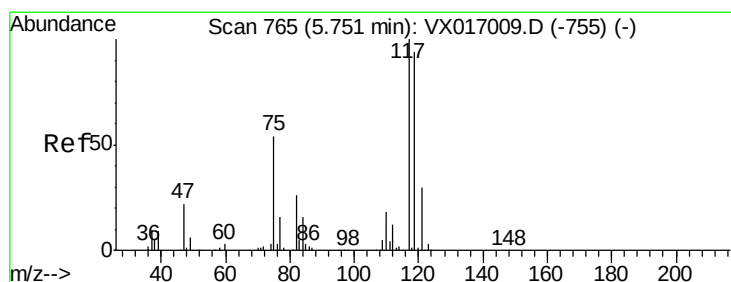
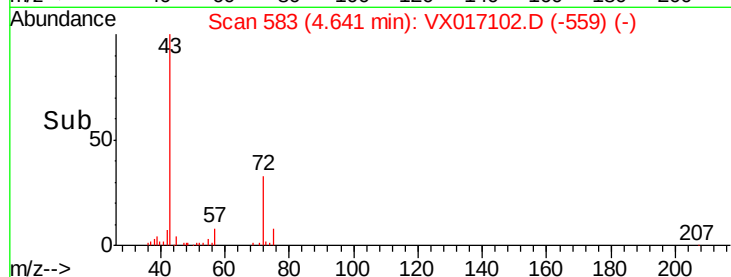
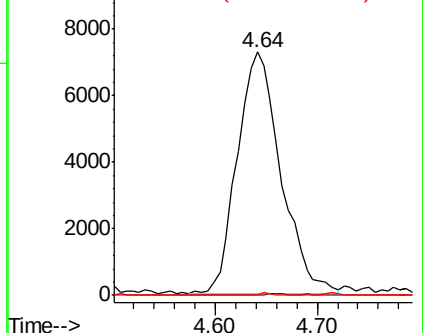
#37
Ethyl Acetate
Concen: 5.719 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.15 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

Instrument :
MSVOA_X
ClientSampleId :
I-LGC-3

Tot Ion: 43 Resp: 21378
Ion Ratio Lower Upper
43 100
61 0.3 11.0 16.4#
70 0.2 8.9 13.3#

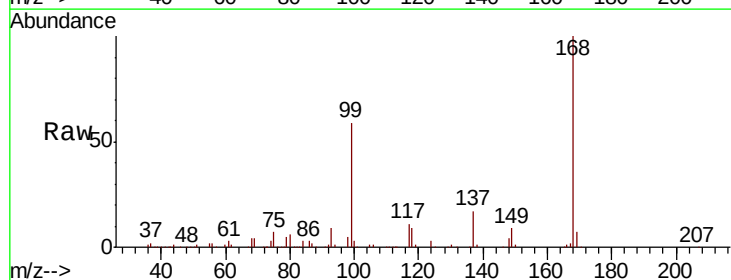


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

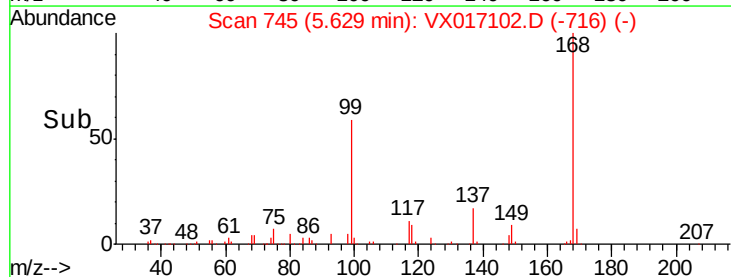
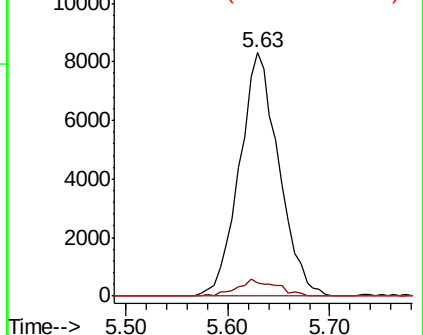


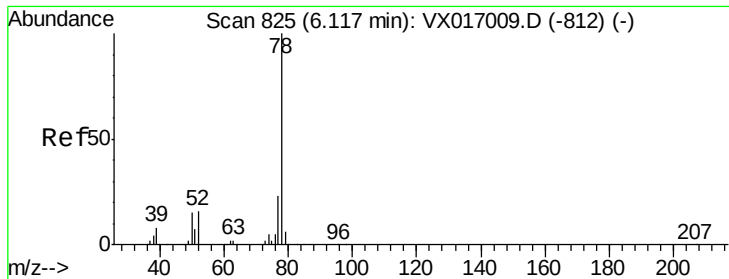
#38
Carbon Tetrachloride
Concen: 5.481 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

Tgt Ion: 117 Resp: 22240
Ion Ratio Lower Upper
117 100
119 5.3 75.4 113.0#
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.824 ug/l

RT: 6.12 min Scan# 825

Delta R.T. -0.00 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

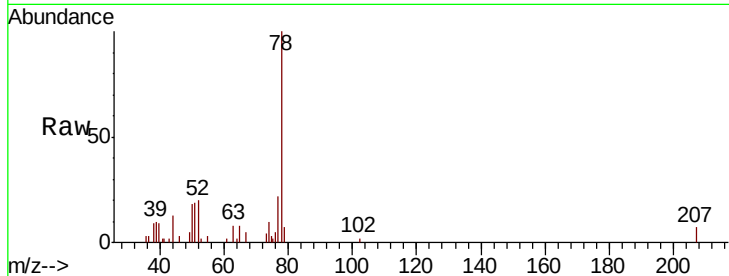
I-LGC-3

Tot Ion: 78 Resp: 8916

Ion Ratio Lower Upper

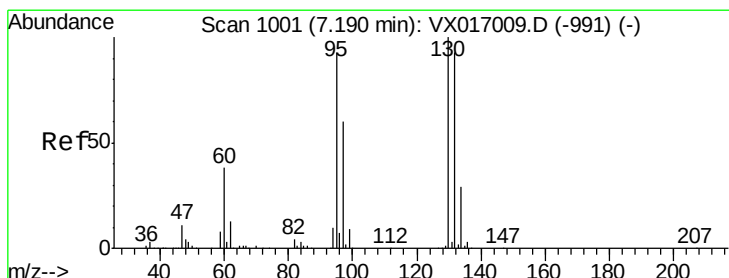
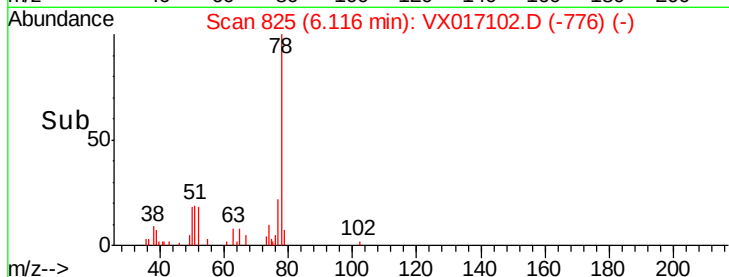
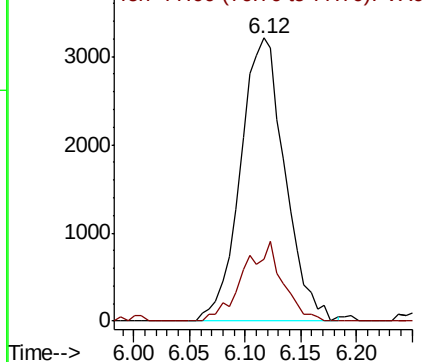
78 100

77 22.0 18.3 27.5



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: Below Cal

RT: 7.18 min Scan# 1000

Delta R.T. -0.01 min

Lab File: VX017102.D

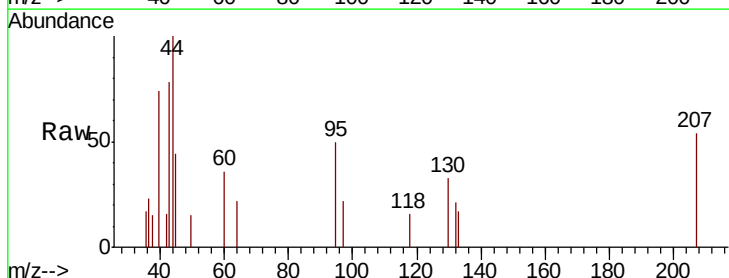
Acq: 01 Jul 2020 16:46

Tgt Ion:130 Resp: 134

Ion Ratio Lower Upper

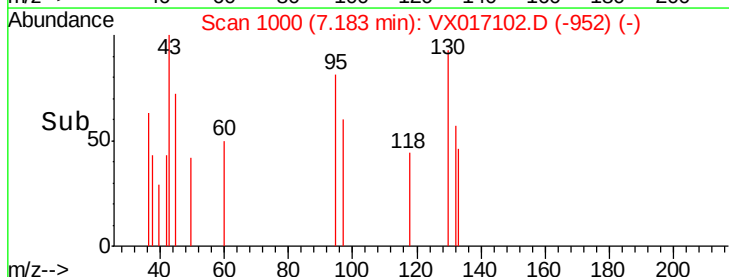
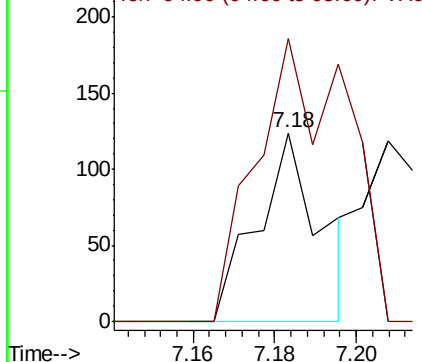
130 100

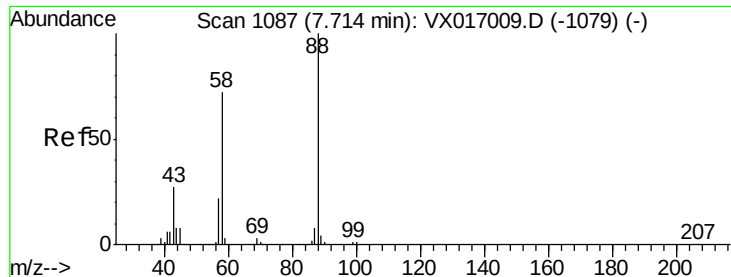
95 150.0 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

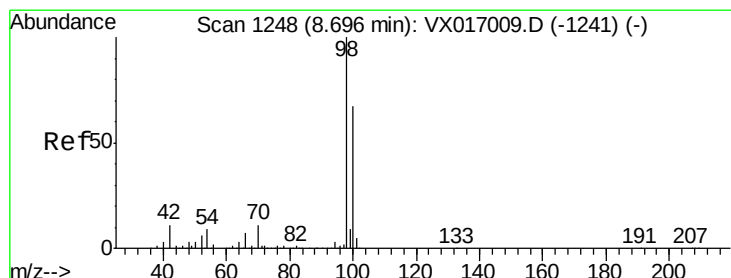
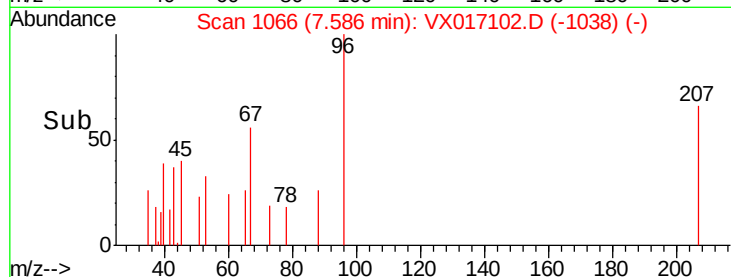
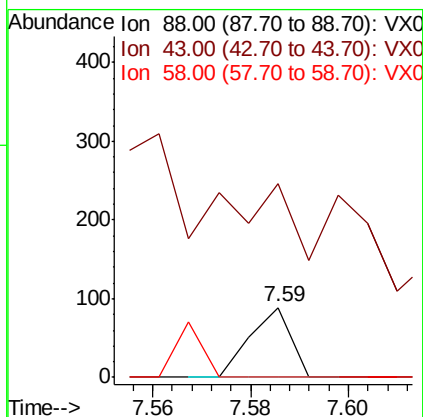
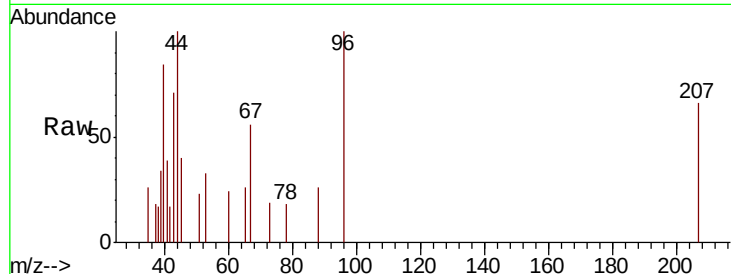




#49
1,4-Dioxane
Concen: 0.763 ug/l
RT: 7.59 min Scan# 1066
Delta R.T. -0.13 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

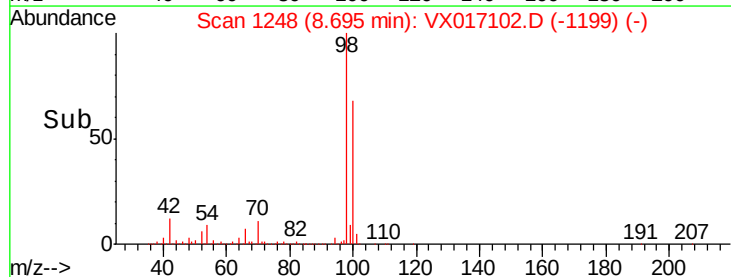
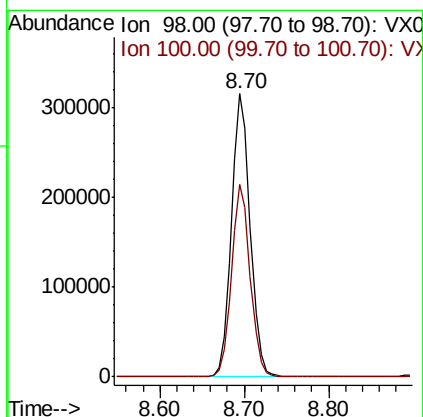
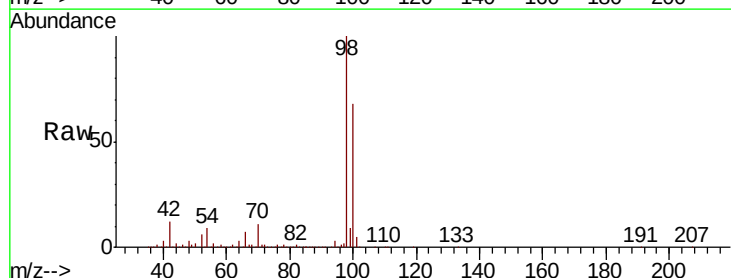
Instrument :
MSVOA_X
ClientSampled :
I-LGC-3

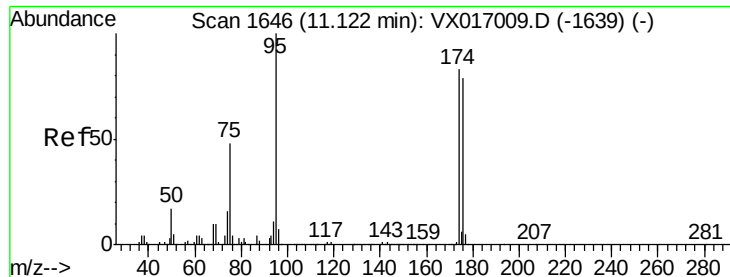
Tot Ion: 88 Resp: 51
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.8#
58 51.0 54.8 82.2#



#50
Toluene-d8
Concen: 52.015 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

Tgt Ion: 98 Resp: 474301
Ion Ratio Lower Upper
98 100
100 67.5 53.8 80.6

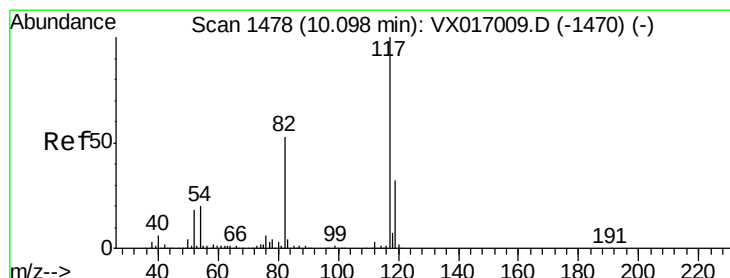
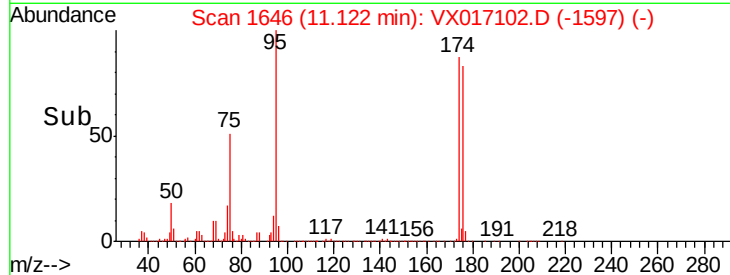
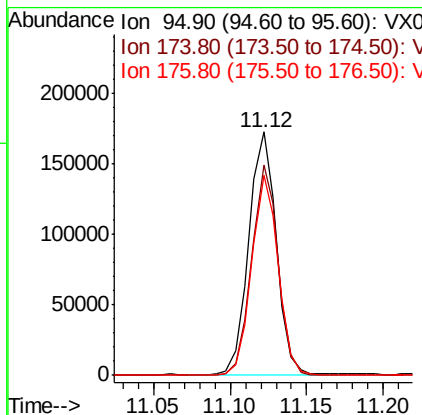
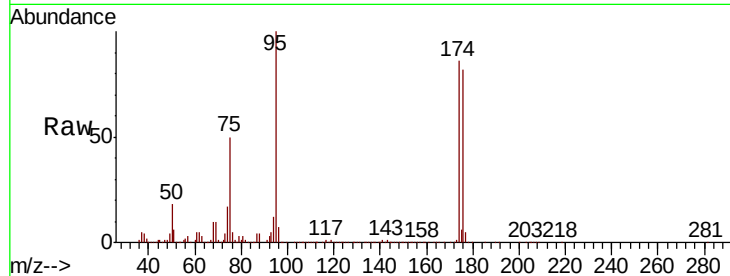




#62
4-Bromofluorobenzene
Concen: 60.230 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

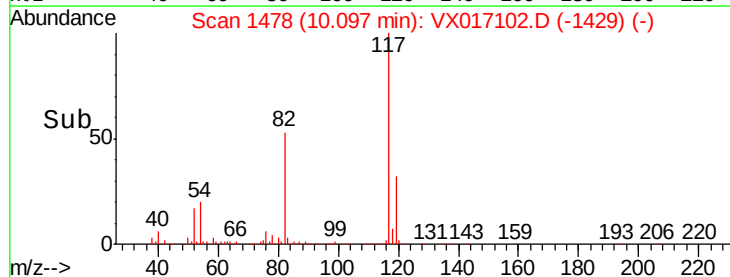
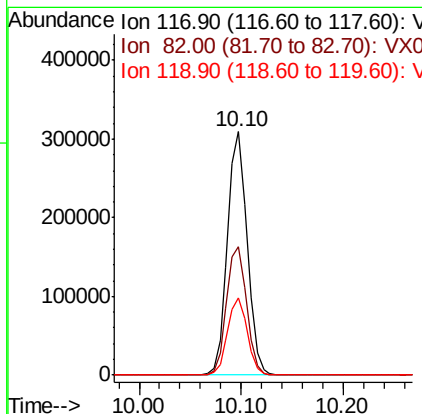
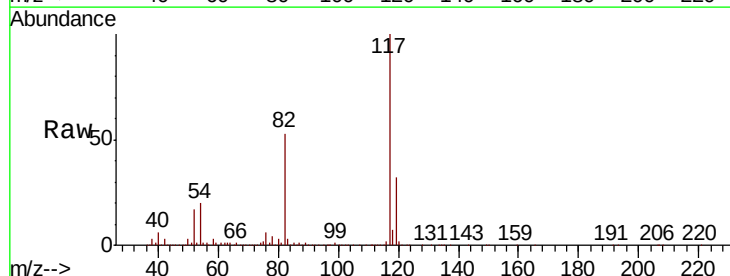
Instrument :
MSVOA_X
ClientSampleId :
I-LGC-3

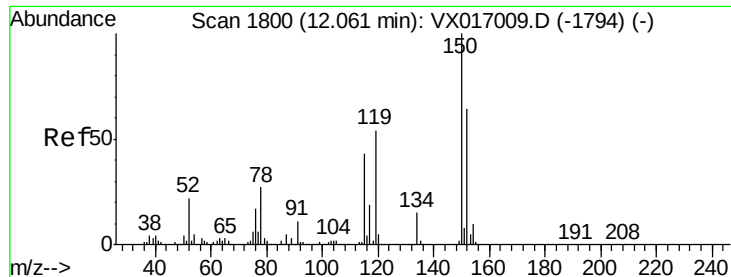
Tot Ion: 95 Resp: 214691
Ion Ratio Lower Upper
95 100
174 83.4 0.0 164.0
176 79.7 0.0 157.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

Tgt Ion: 117 Resp: 412010
Ion Ratio Lower Upper
117 100
82 53.0 42.6 63.8
119 31.8 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-3

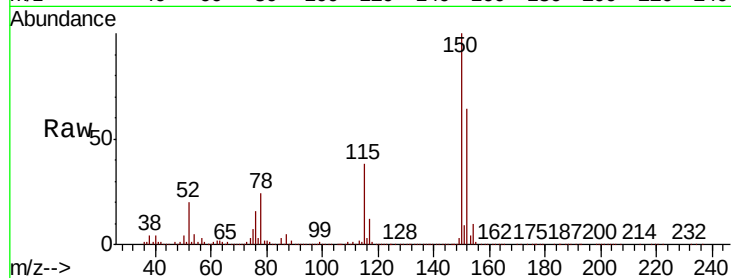
Tot Ion:152 Resp: 230888

Ion Ratio Lower Upper

152 100

115 57.5 40.9 122.7

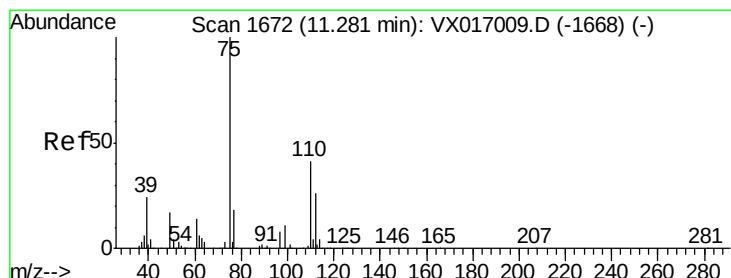
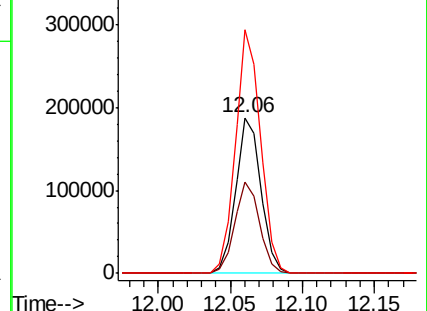
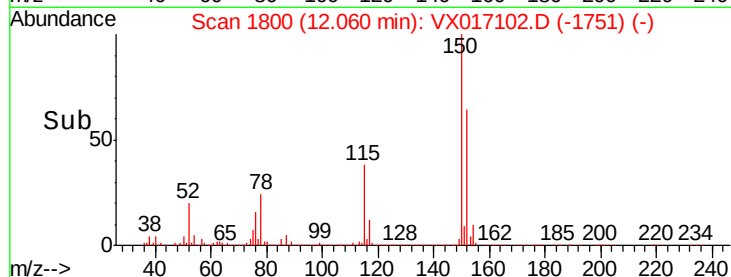
150 155.1 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.448 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017102.D

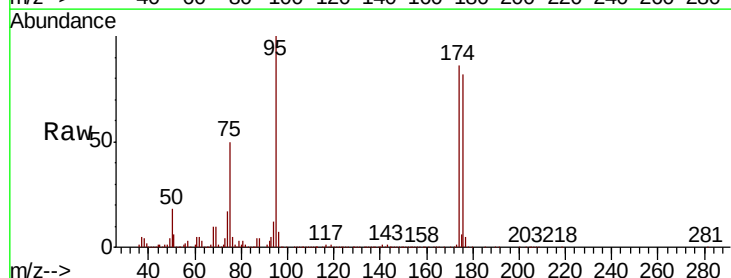
Acq: 01 Jul 2020 16:46

Tgt Ion: 75 Resp: 106460

Ion Ratio Lower Upper

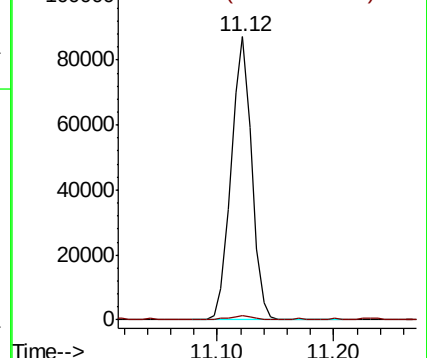
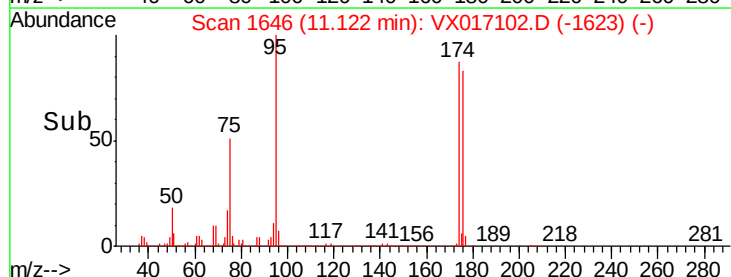
75 100

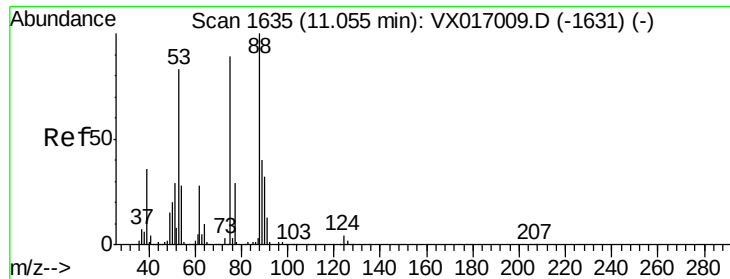
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.722 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-3

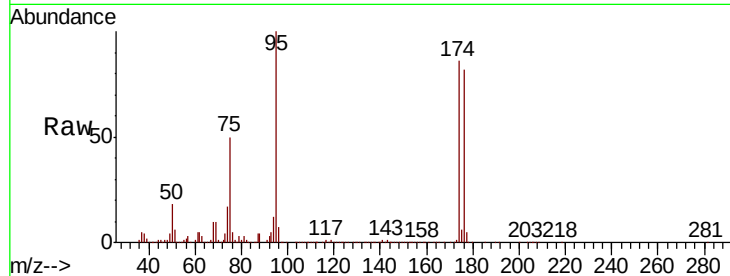
Tot Ion: 75 Resp: 106460

Ion Ratio Lower Upper

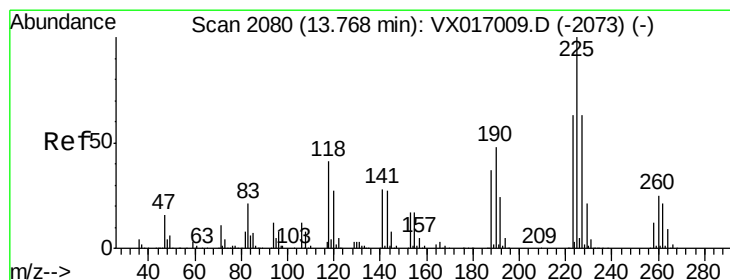
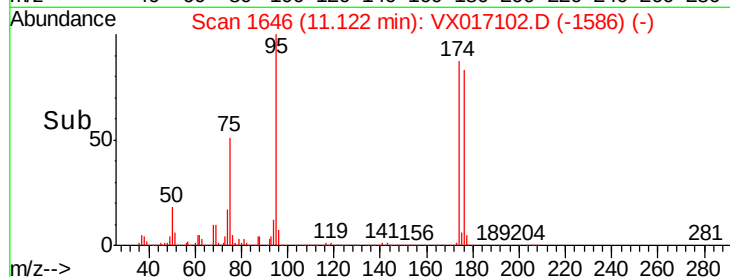
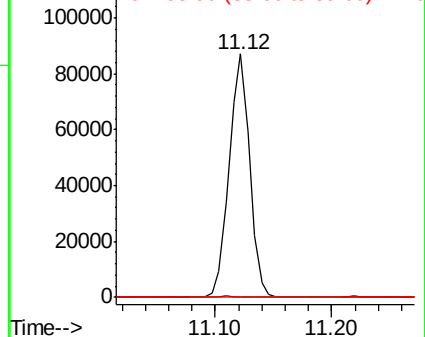
75 100

53 0.3 72.4 108.6#

89 0.0 37.0 55.4#



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



#94

Hexachlorobutadiene

Concen: 0.875 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX017102.D

Acq: 01 Jul 2020 16:46

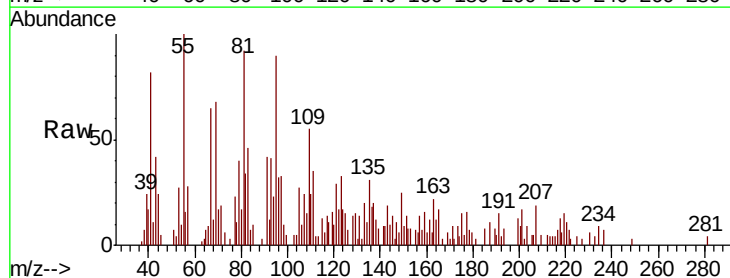
Tgt Ion: 225 Resp: 57

Ion Ratio Lower Upper

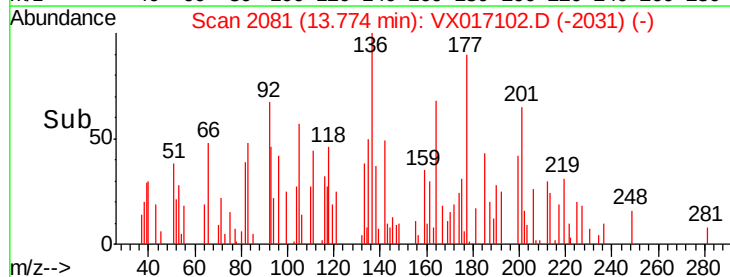
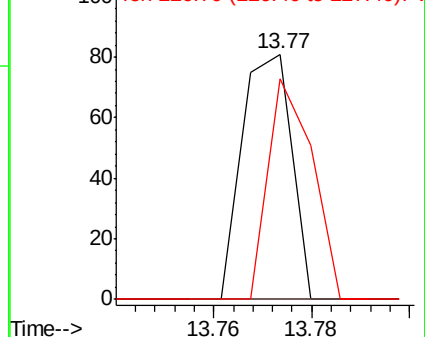
225 100

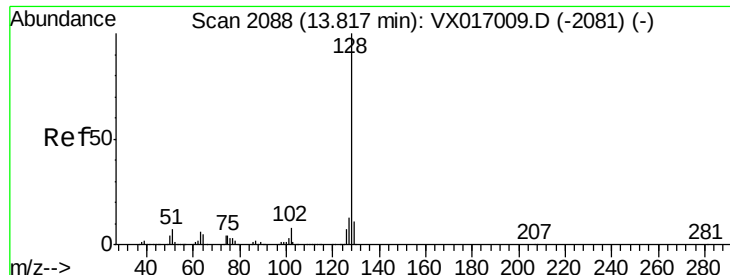
223 0.0 32.5 97.5#

227 78.9 33.1 99.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





#95
Naphthalene
Concen: 3.500 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX017102.D
Acq: 01 Jul 2020 16:46

Instrument :
MSVOA_X
ClientSampleId :
I-LGC-3

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.2	15.4
129	13.5	8.7	13.1

