

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017096.D
 Acq On : 01 Jul 2020 14:29
 Operator : JC/SP
 Sample : L3163-02 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 I-LGC-3

Quant Time: Jul 02 01:36:09 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

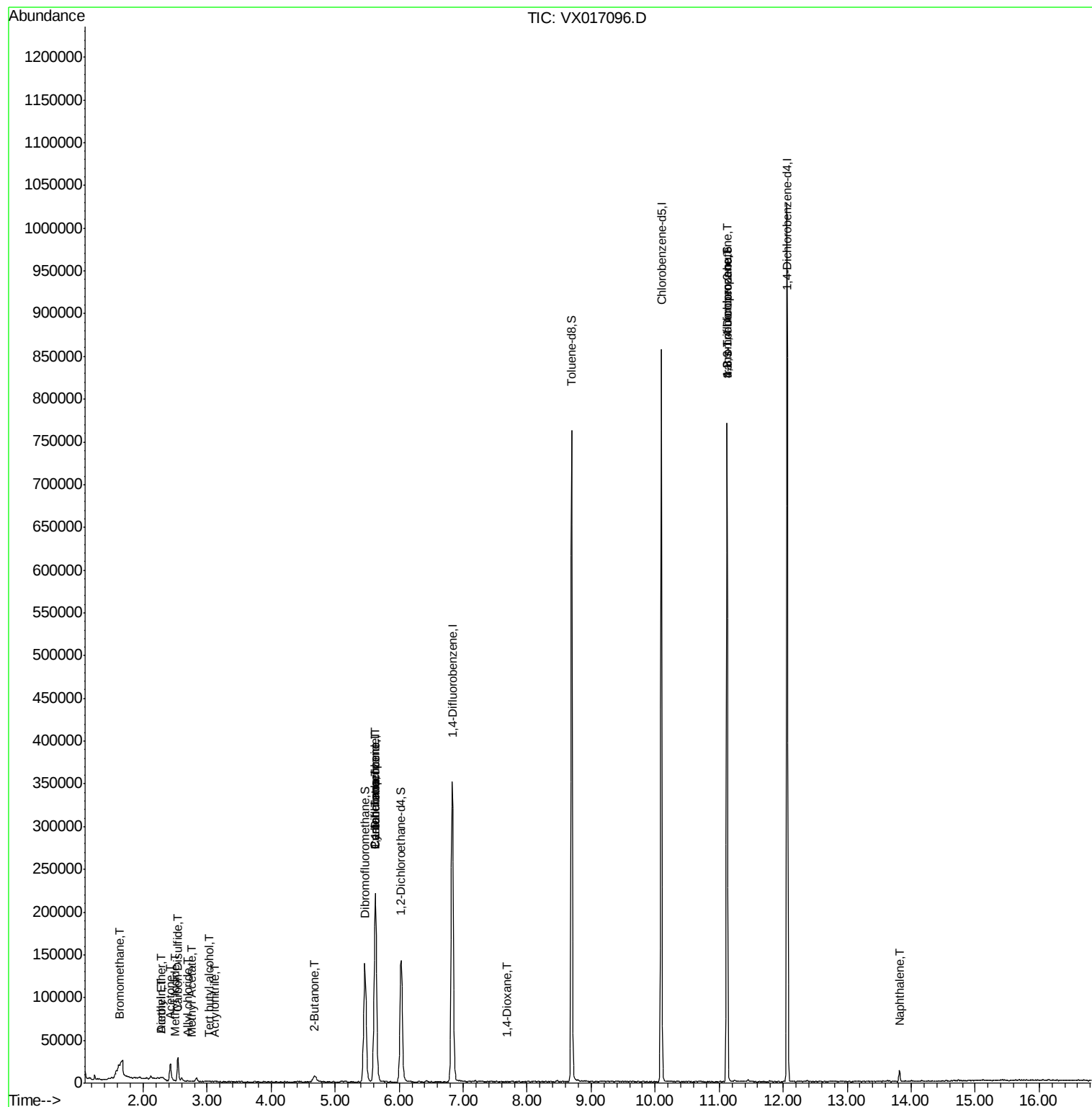
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	212579	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	351437	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	387743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	209335	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	139682	53.30	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.60%	
35) Dibromofluoromethane	5.46	113	119692	53.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.68%	
50) Toluene-d8	8.70	98	438643	53.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.72%	
62) 4-Bromofluorobenzene	11.12	95	193130	60.10	ug/l	0.00
Spiked Amount 50.000			Recovery	=	120.20%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.62	94	811	0.665	ug/l	99
8) Diethyl Ether	2.28	74	78	0.433	ug/l	85
10) Methyl Iodide	2.49	142	645	0.244	ug/l #	92
11) Tert butyl alcohol	3.03	59	388	0.776	ug/l #	73
13) Acrolein	2.27	56	460	1.539	ug/l	88
14) Allyl chloride	2.69	41	1104	0.284	ug/l #	38
15) Acrylonitrile	3.12	53	258	0.215	ug/l	93
16) Acetone	2.43	43	21950	22.390	ug/l	99
17) Carbon Disulfide	2.54	76	35393	6.051	ug/l	100
18) Methyl Acetate	2.76	43	944	0.369	ug/l #	72
25) 2-Butanone	4.67	43	2124	1.300	ug/l #	89
31) Cyclohexane	5.64	56	4135	1.169	ug/l #	19
36) 1,1-Dichloropropene	5.63	75	16061	4.835	ug/l #	51
38) Carbon Tetrachloride	5.63	117	20839	5.696	ug/l #	17
44) Trichloroethene	7.18	130	329	Below Cal		88
49) 1,4-Dioxane	7.70	88	35	0.581	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	96603	23.468	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	96603	60.773	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	574	Below Cal	#	1
95) Naphthalene	13.82	128	7326	0.552	ug/l #	96

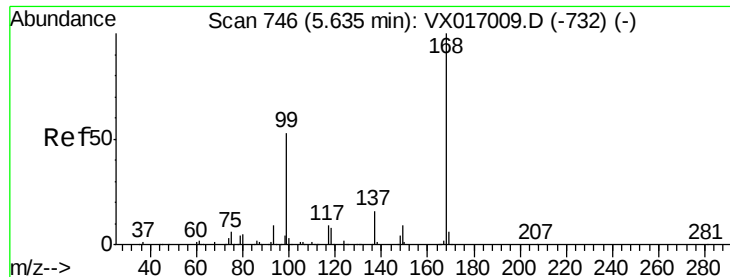
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 02 01:36:09 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampled :

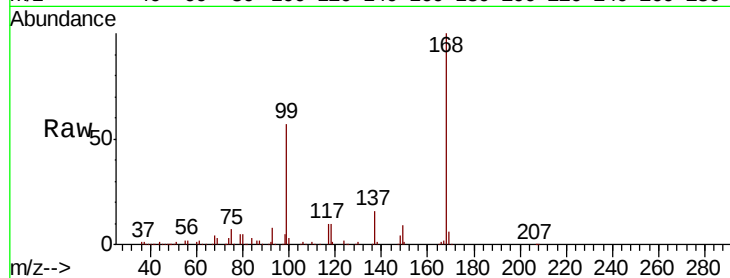
I-LGC-3

Tot Ion:168 Resp: 212579

Ion Ratio Lower Upper

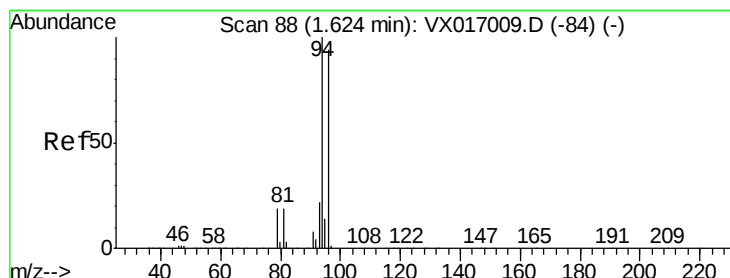
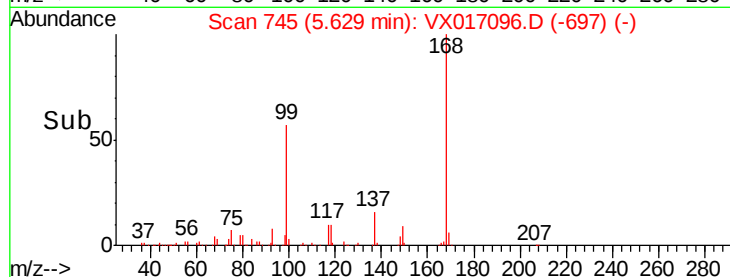
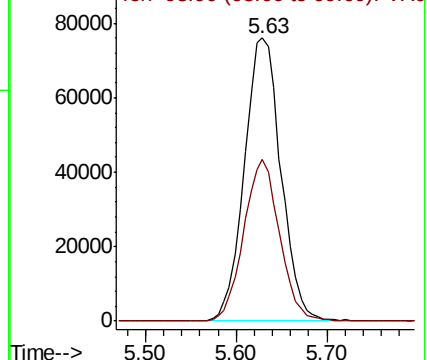
168 100

99 57.0 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.665 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX017096.D

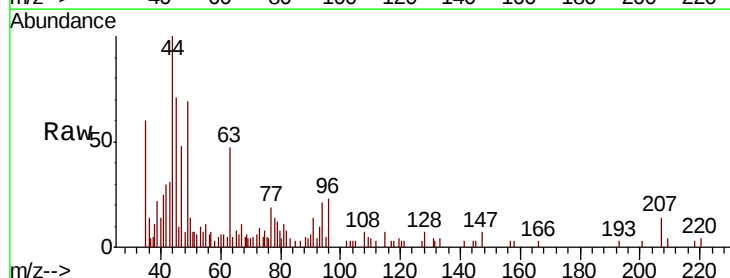
Acq: 01 Jul 2020 14:29

Tgt Ion: 94 Resp: 811

Ion Ratio Lower Upper

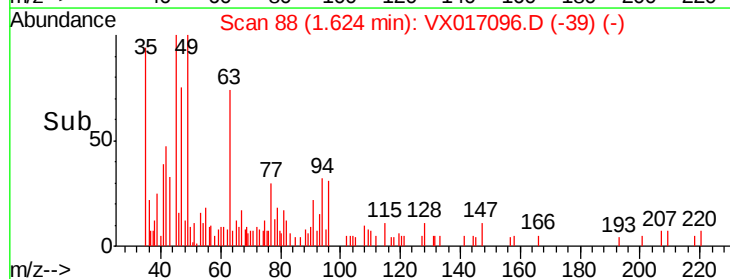
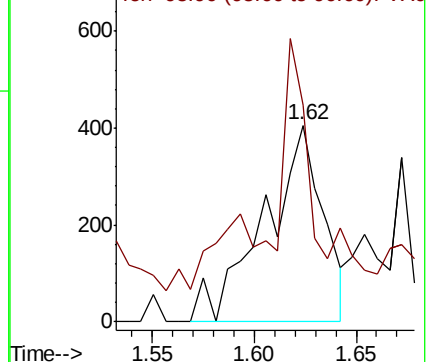
94 100

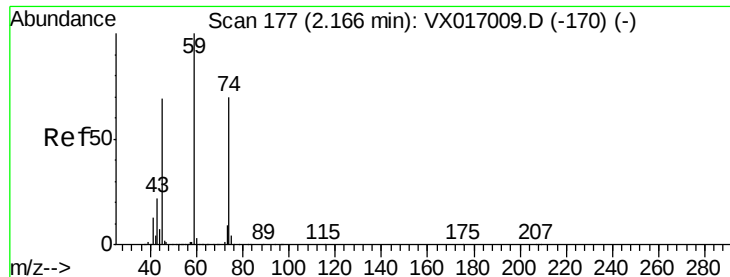
96 94.3 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.433 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.12 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampleId :

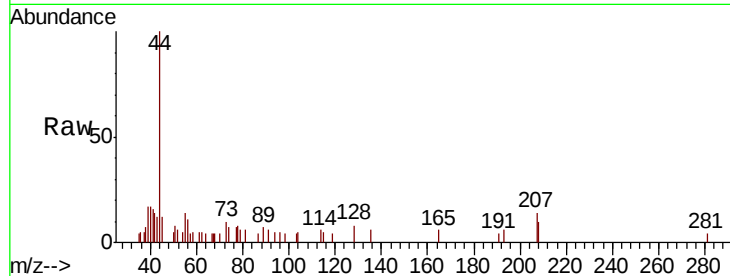
I-LGC-3

Tot Ion: 74 Resp: 78

Ion Ratio Lower Upper

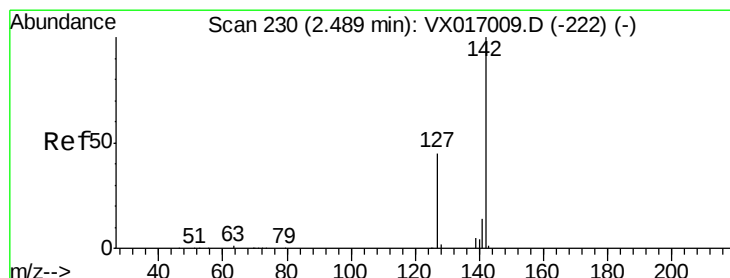
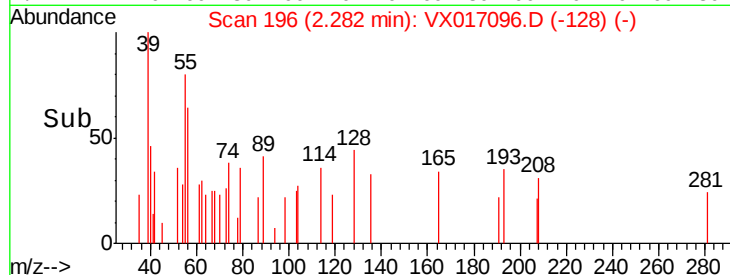
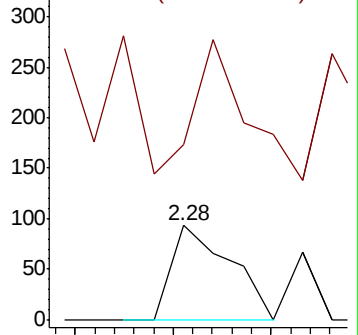
74 100

45 114.1 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.244 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

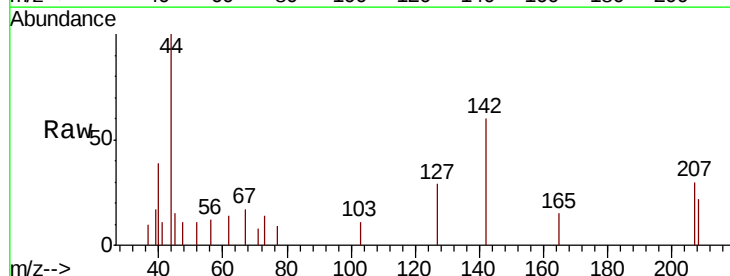
Tgt Ion: 142 Resp: 645

Ion Ratio Lower Upper

142 100

127 48.8 36.6 54.8

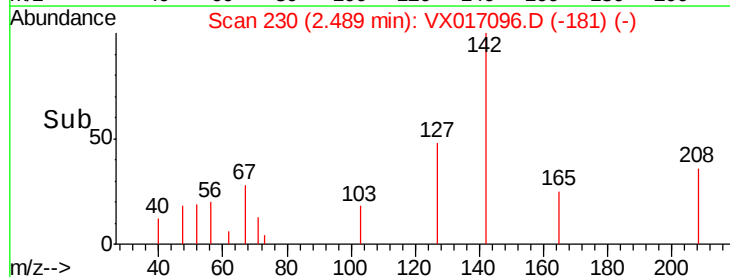
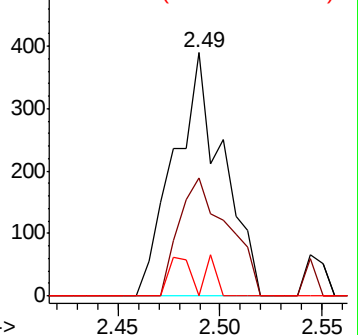
141 6.8 11.6 17.4#

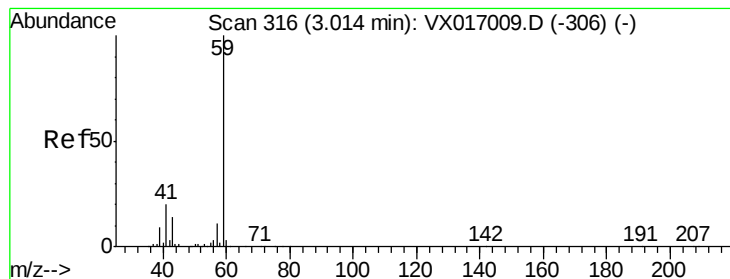


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 0.776 ug/l

RT: 3.03 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampled :

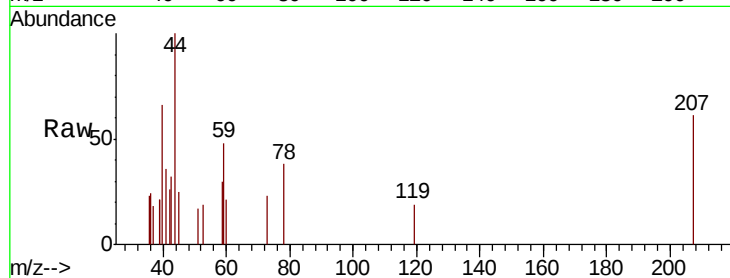
I-LGC-3

Tot Ion: 59 Resp: 388

Ion Ratio Lower Upper

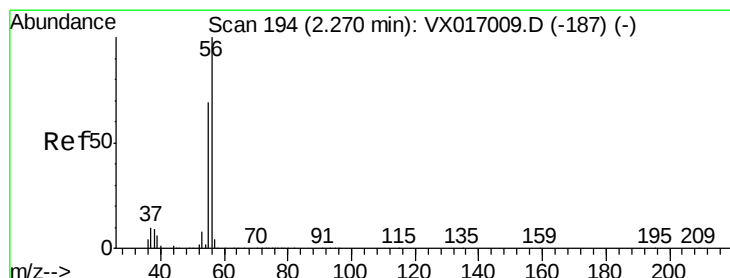
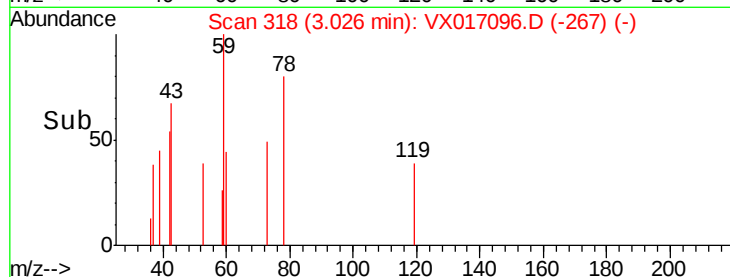
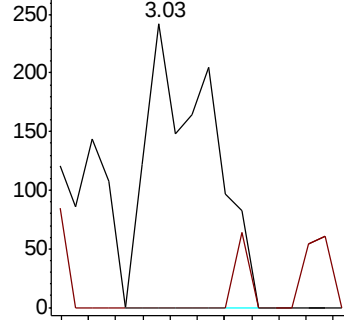
59 100

57 0.0 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: 1.539 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX017096.D

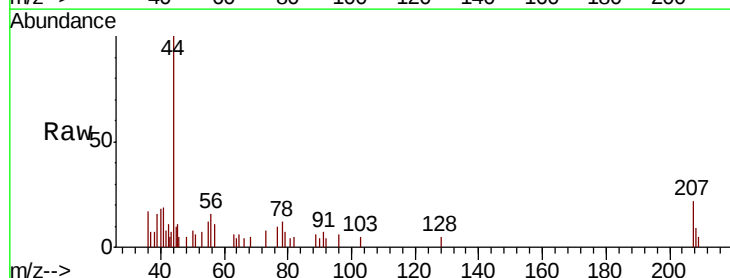
Acq: 01 Jul 2020 14:29

Tgt Ion: 56 Resp: 460

Ion Ratio Lower Upper

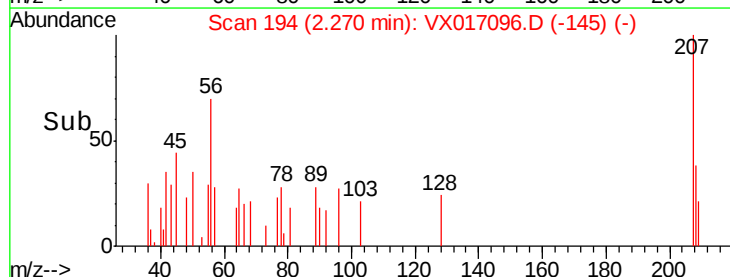
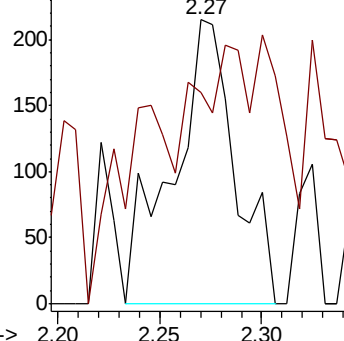
56 100

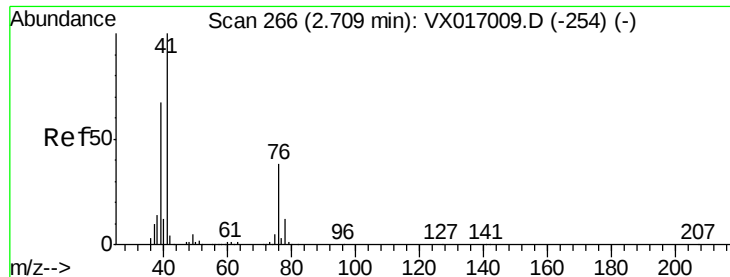
55 79.8 55.7 83.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#14

Allvl chloride

Concen: 0.284 ug/l

RT: 2.69 min Scan# 263

Delta R.T. -0.02 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampled :

I-LGC-3

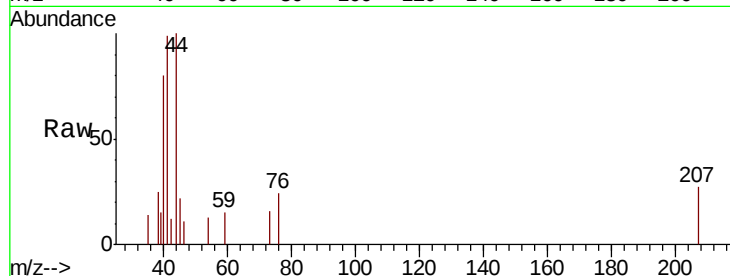
Tot Ion: 41 Resp: 1104

Ion Ratio Lower Upper

41 100

39 13.0 49.4 74.2#

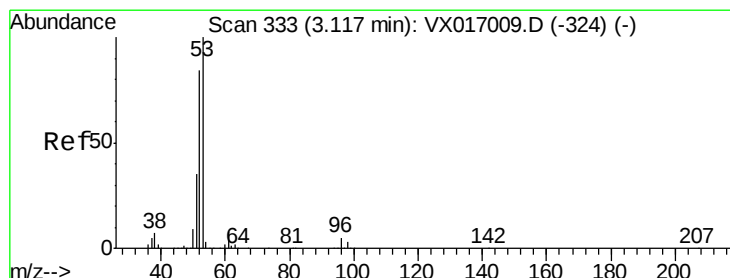
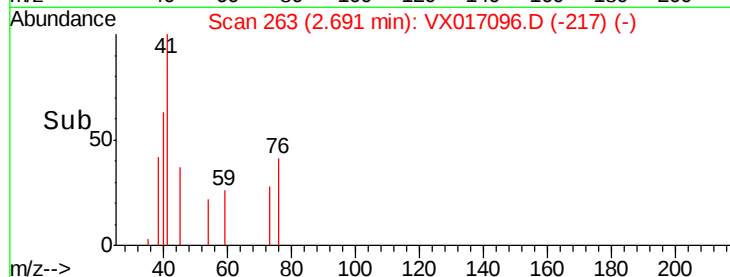
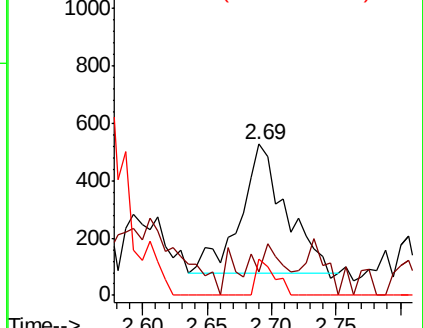
76 0.0 26.8 40.2#



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



#15

Acrylonitrile

Concen: 0.215 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

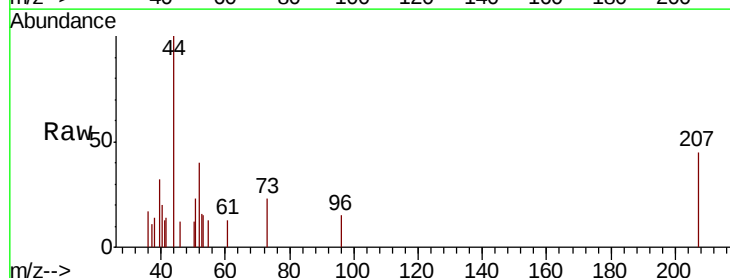
Tgt Ion: 53 Resp: 258

Ion Ratio Lower Upper

53 100

52 88.8 65.6 98.4

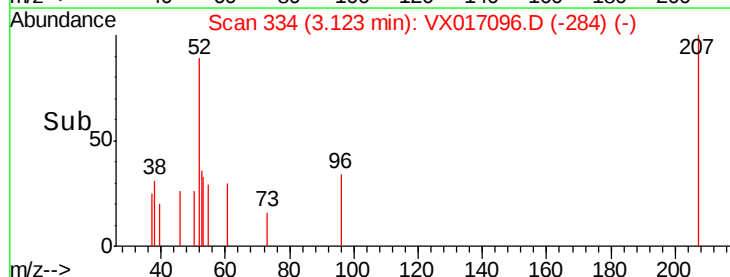
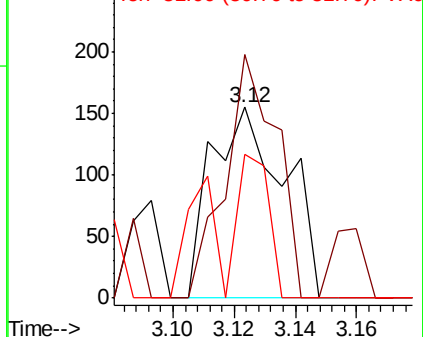
51 31.8 28.3 42.5

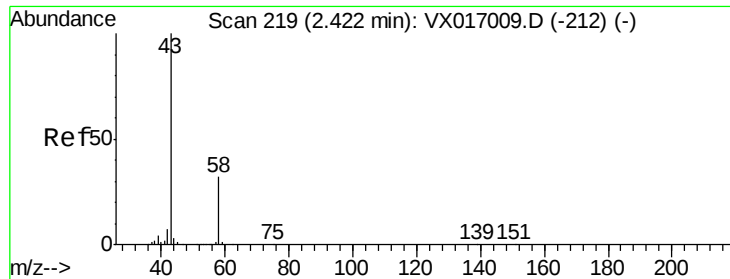


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 22.390 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampleId :

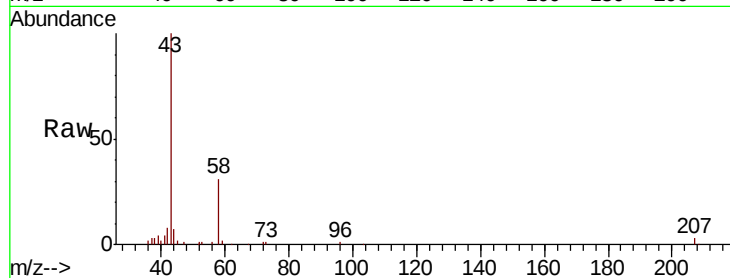
I-LGC-3

Tot Ion: 43 Resp: 21950

Ion Ratio Lower Upper

43 100

58 31.3 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

15000

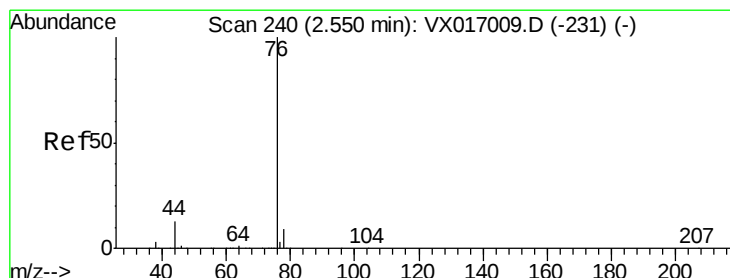
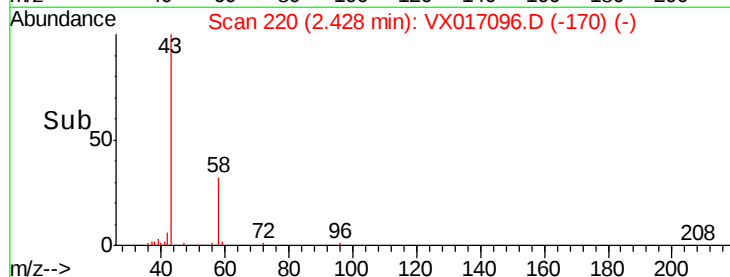
10000

5000

0

Time-->

2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 6.051 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX017096.D

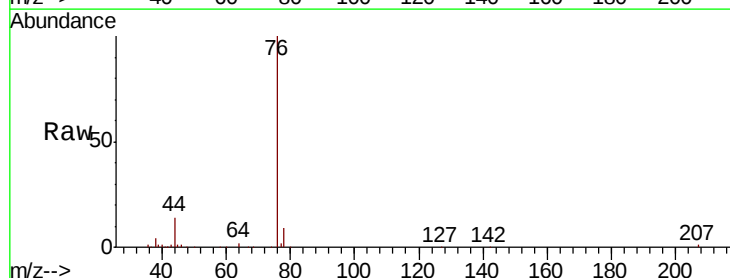
Acq: 01 Jul 2020 14:29

Tgt Ion: 76 Resp: 35393

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

25000

20000

15000

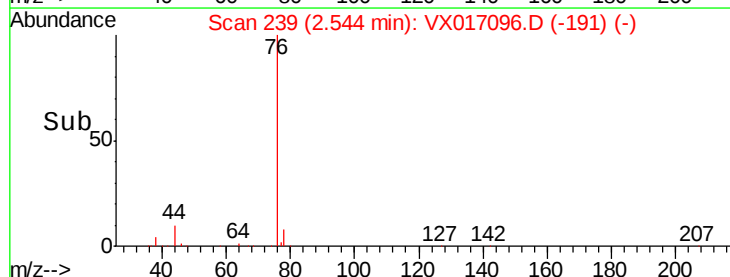
10000

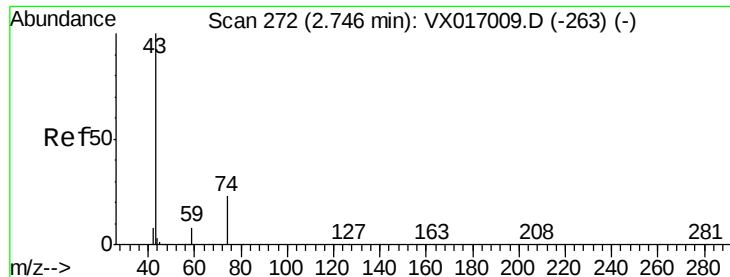
5000

0

Time-->

2.45 2.50 2.55 2.60 2.65

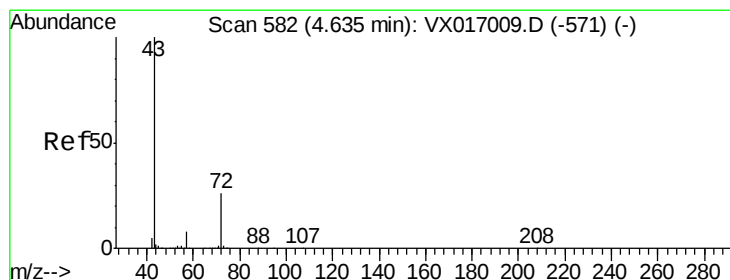
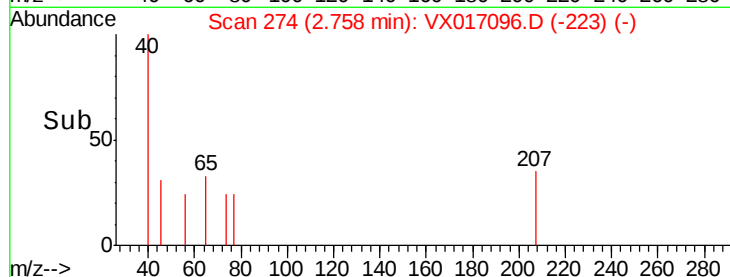
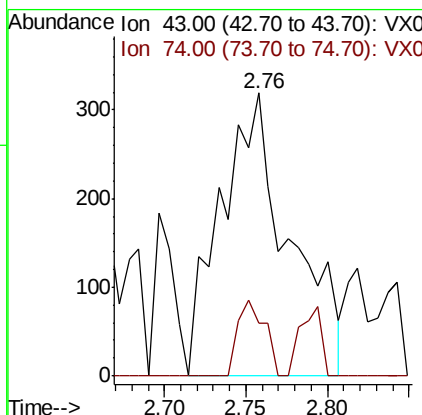
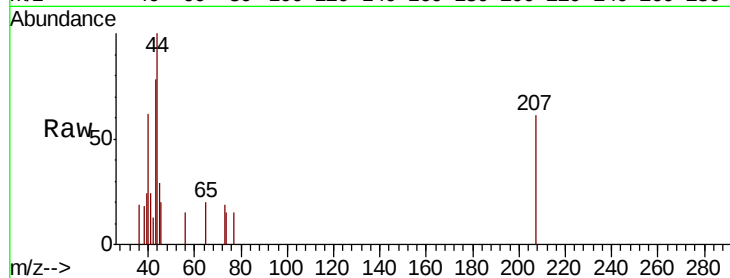




#18
Methvl Acetate
Concen: 0.369 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX017096.D
Acq: 01 Jul 2020 14:29

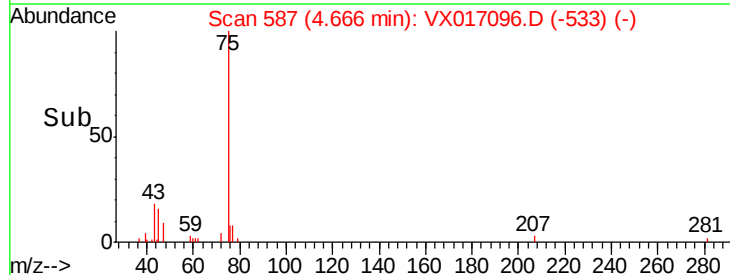
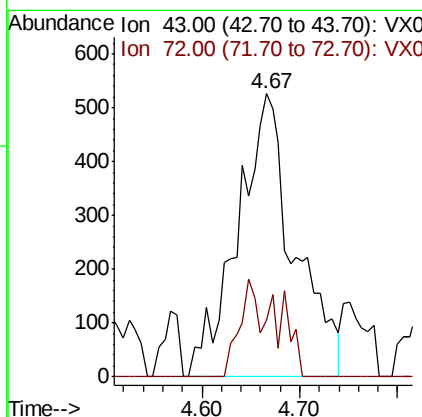
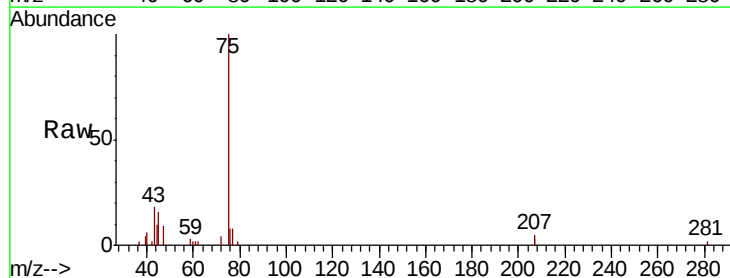
Instrument :
MSVOA_X
ClientSampleId :
I-LGC-3

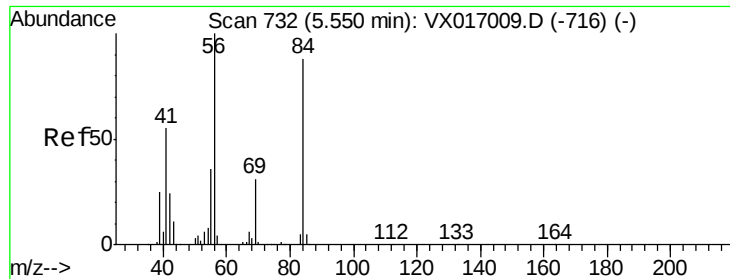
Tot Ion: 43 Resp: 944
Ion Ratio Lower Upper
43 100
74 10.4 19.3 28.9#



#25
2-Butanone
Concen: 1.300 ug/l
RT: 4.67 min Scan# 587
Delta R.T. 0.03 min
Lab File: VX017096.D
Acq: 01 Jul 2020 14:29

Tgt Ion: 43 Resp: 2124
Ion Ratio Lower Upper
43 100
72 20.2 20.8 31.2#

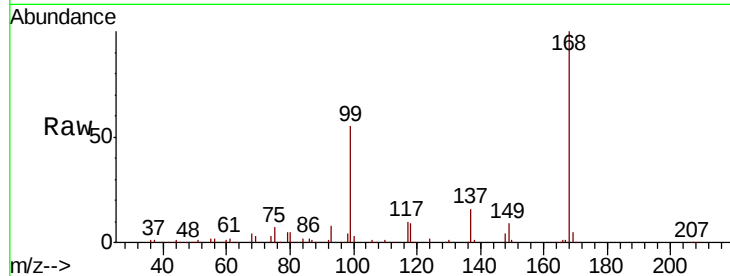




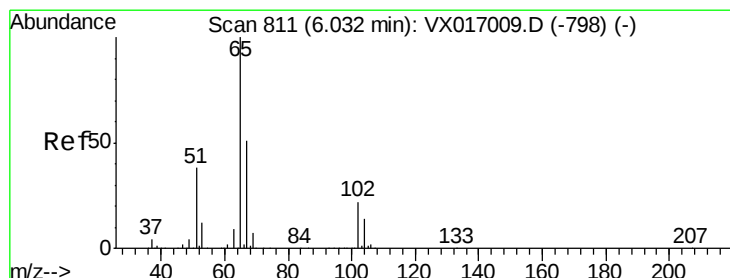
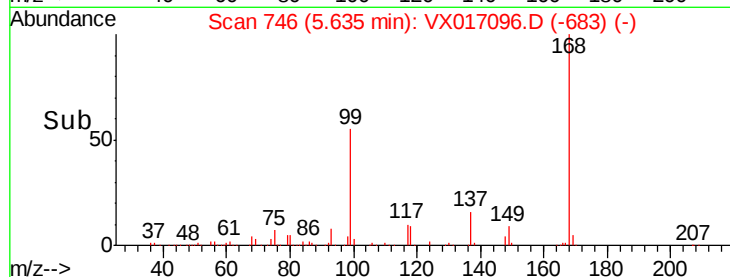
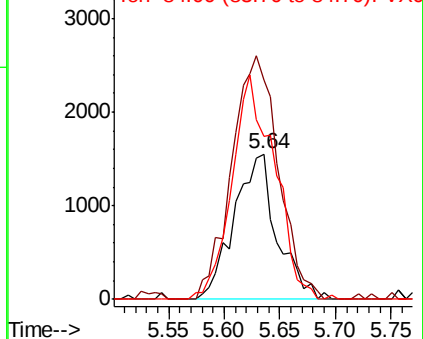
#31
Cyclohexane
Concen: 1.169 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX017096.D
Acq: 01 Jul 2020 14:29

Instrument :
MSVOA_X
ClientSampled :
I-LGC-3

Tot Ion: 56 Resp: 4135
Ion Ratio Lower Upper
56 100
69 150.7 25.0 37.4#
84 116.2 69.1 103.7#

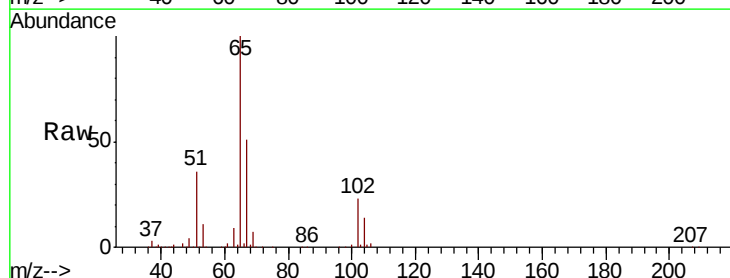


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

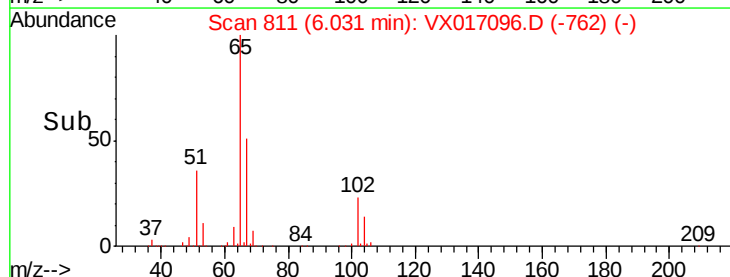
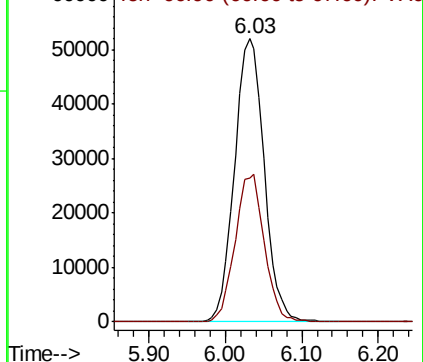


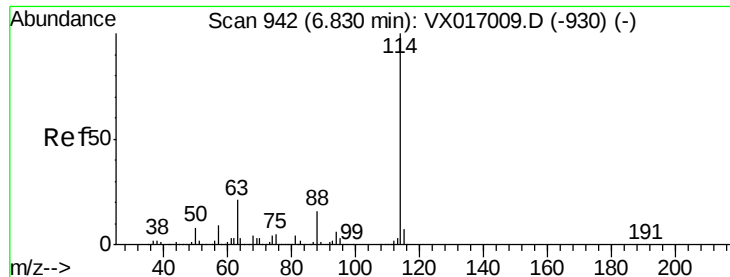
#33
1,2-Dichloroethane-d4
Concen: 53.300 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017096.D
Acq: 01 Jul 2020 14:29

Tgt Ion: 65 Resp: 139682
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-3

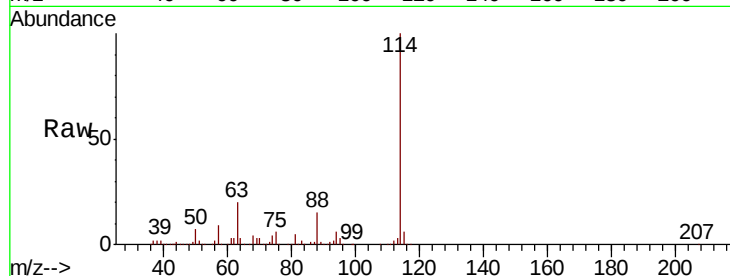
Tot Ion:114 Resp: 351437

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

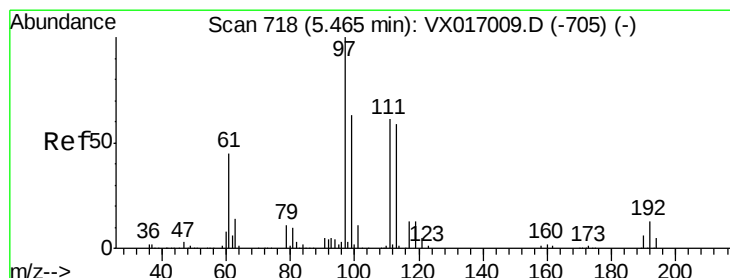
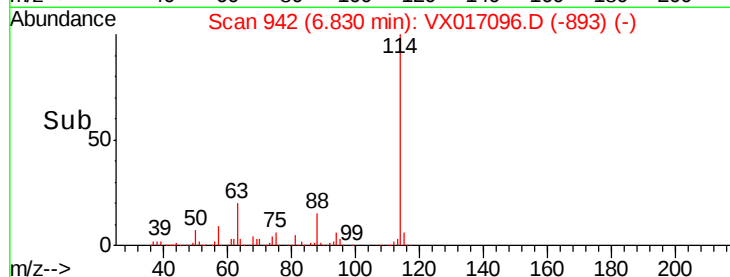
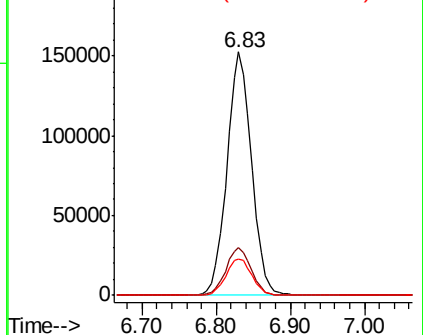
88 15.1 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 53.841 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

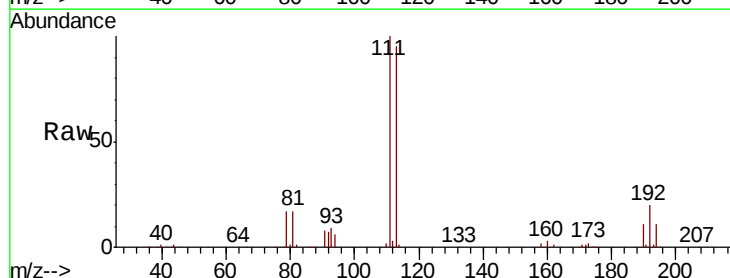
Tgt Ion:113 Resp: 119692

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

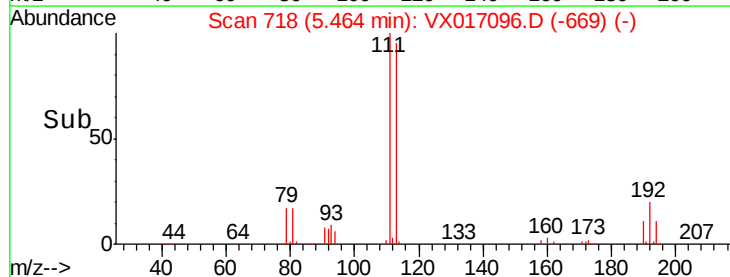
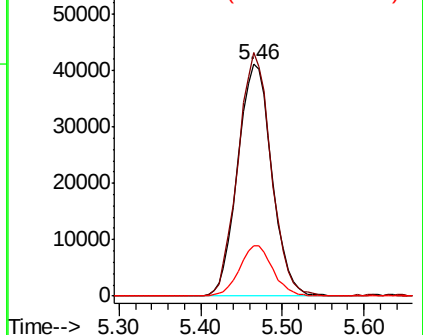
192 21.2 16.7 25.1

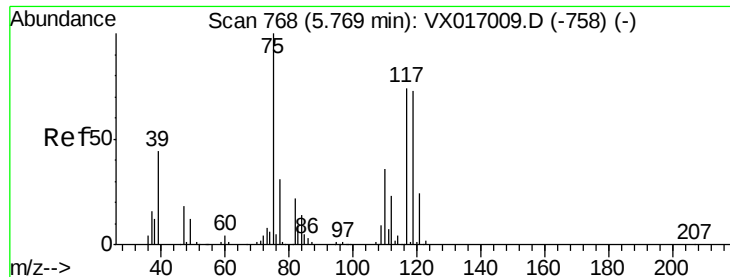


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

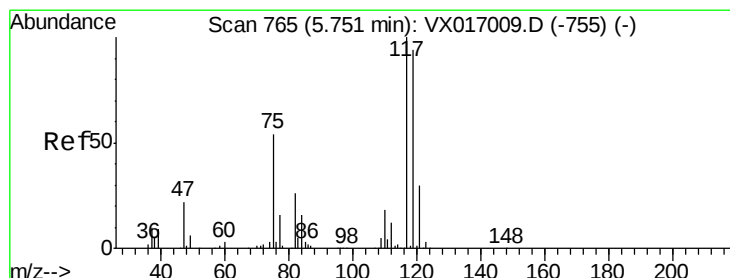
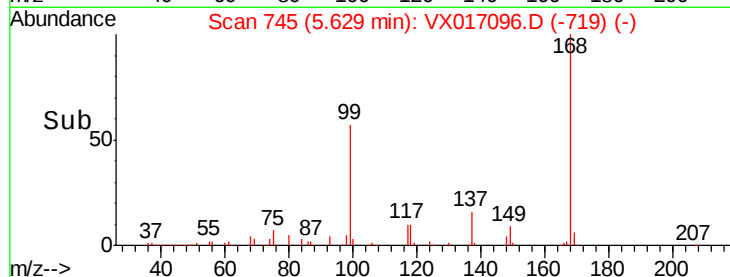
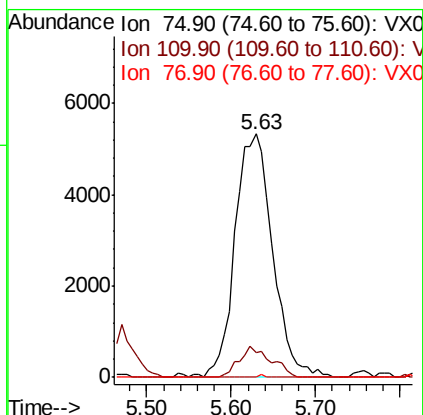
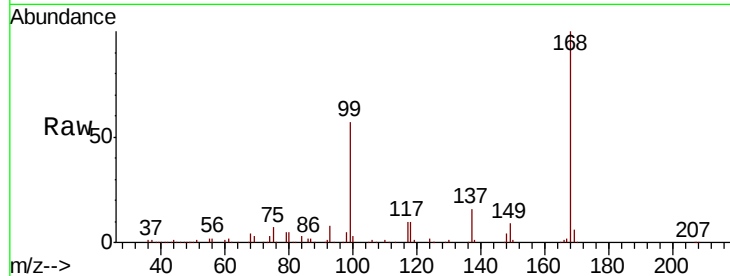




#36
 1,1-Dichloropropene
 Concen: 4.835 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017096.D
 Acq: 01 Jul 2020 14:29

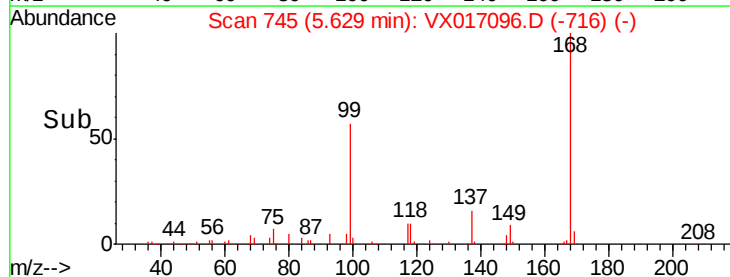
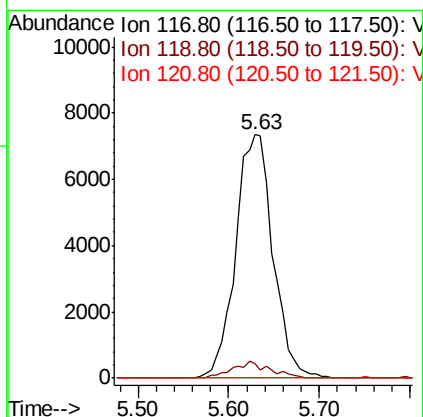
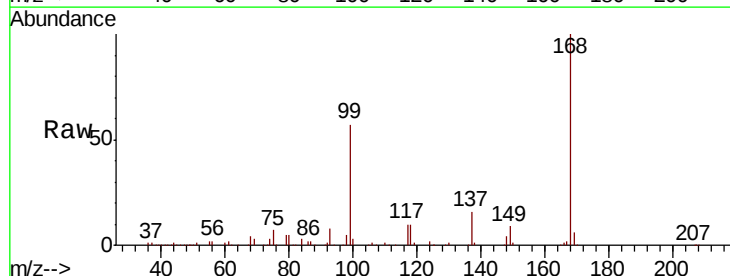
Instrument :
 MSVOA_X
 ClientSampleId :
 I-LGC-3

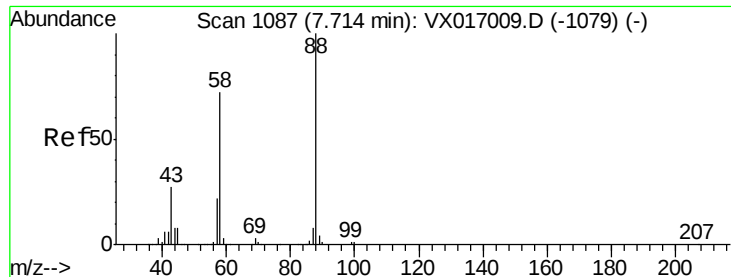
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.1	54.1#
77	0.1	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.696 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017096.D
 Acq: 01 Jul 2020 14:29

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	75.4	113.0#
121	0.0	23.8	35.6#

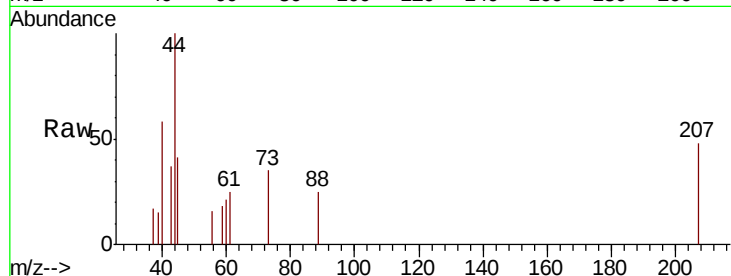




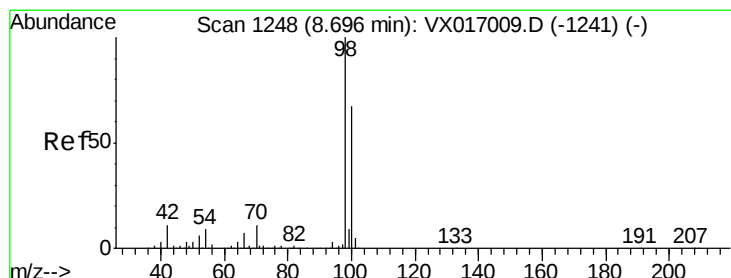
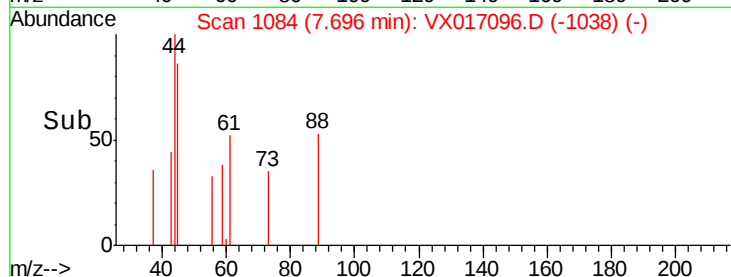
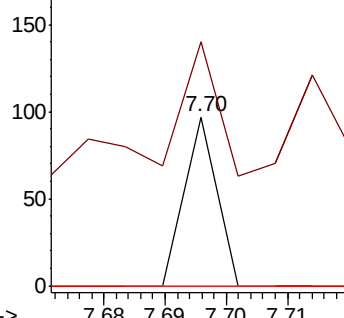
#49
1,4-Dioxane
Concen: 0.581 ug/l
RT: 7.70 min Scan# 1084
Delta R.T. -0.02 min
Lab File: VX017096.D
Acq: 01 Jul 2020 14:29

Instrument :
MSVOA_X
ClientSampled :
I-LGC-3

Tot Ion: 88 Resp: 35
Ion Ratio Lower Upper
88 100
43 597.1 25.8 38.8#
58 0.0 54.8 82.2#

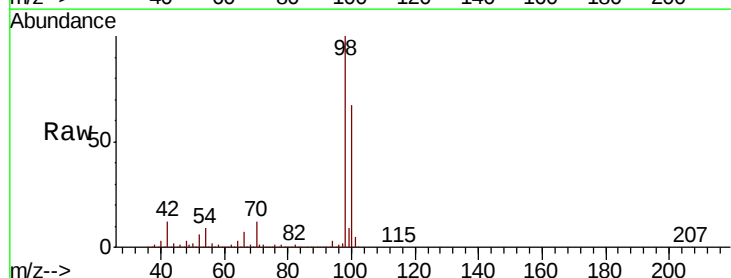


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

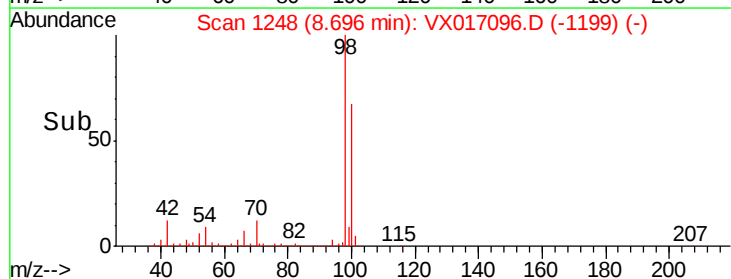
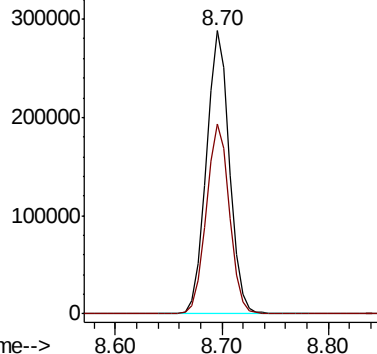


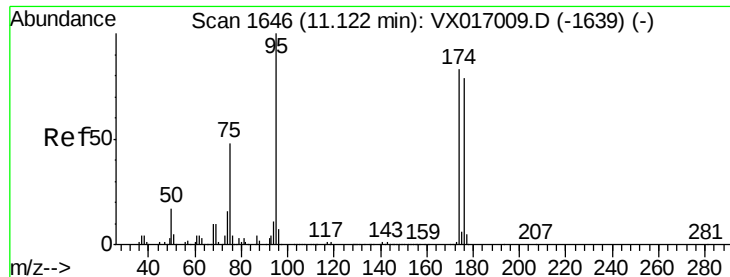
#50
Toluene-d8
Concen: 53.360 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017096.D
Acq: 01 Jul 2020 14:29

Tgt Ion: 98 Resp: 438643
Ion Ratio Lower Upper
98 100
100 67.3 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 60.100 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampled :

I-LGC-3

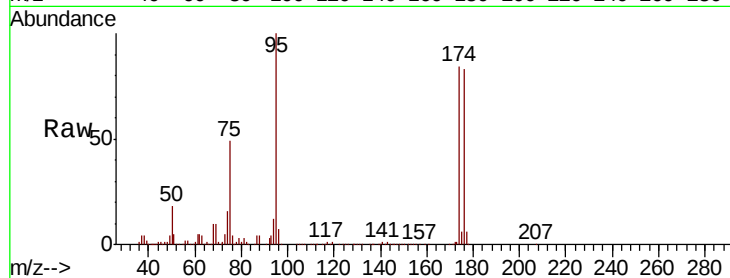
Tot Ion: 95 Resp: 193130

Ion Ratio Lower Upper

95 100

174 83.9 0.0 164.0

176 81.6 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX017009.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017009.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017009.D (-1639) (-)

11.12

150000

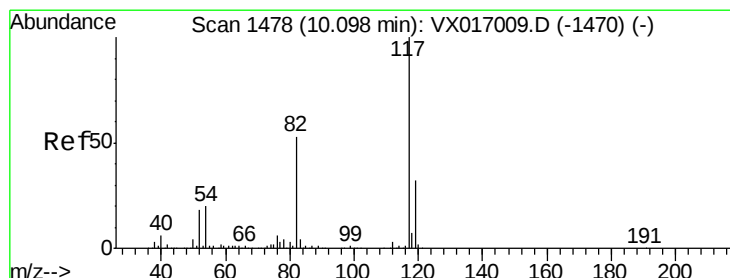
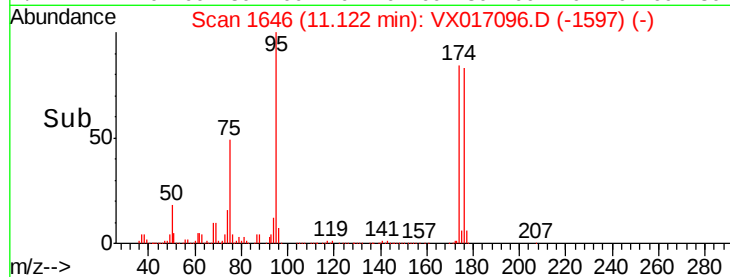
100000

50000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

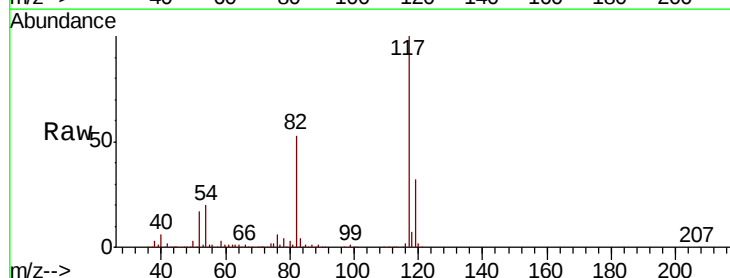
Tgt Ion: 117 Resp: 387743

Ion Ratio Lower Upper

117 100

82 52.6 42.6 63.8

119 31.9 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VX017009.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX017009.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX017009.D (-1470) (-)

10.10

400000

300000

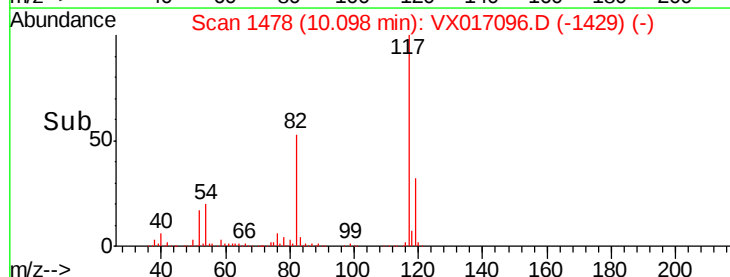
200000

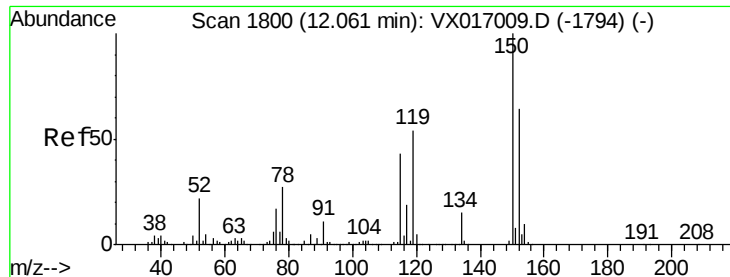
100000

0

10.00 10.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017096.D

Acq: 01 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-3

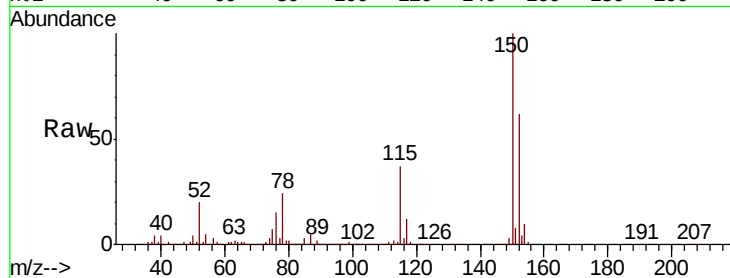
Tot Ion:152 Resp: 209335

Ion Ratio Lower Upper

152 100

115 58.1 40.9 122.7

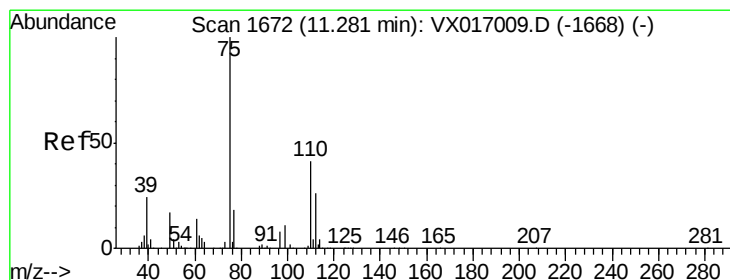
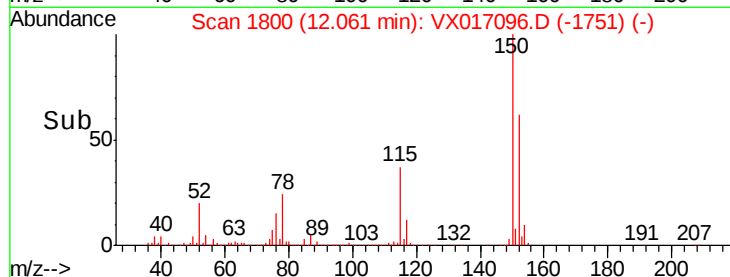
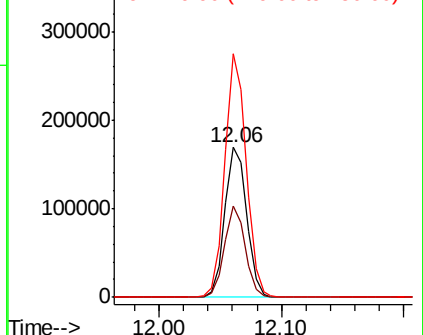
150 157.2 0.0 351.6



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: 23.468 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017096.D

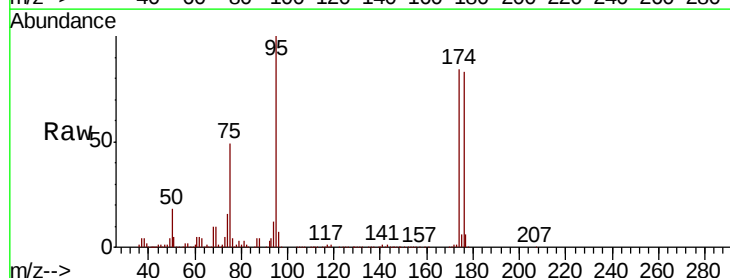
Acq: 01 Jul 2020 14:29

Tgt Ion: 75 Resp: 96603

Ion Ratio Lower Upper

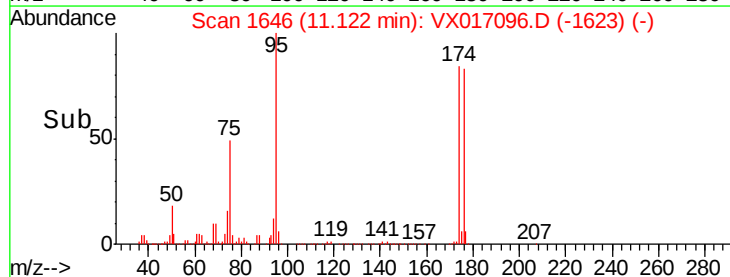
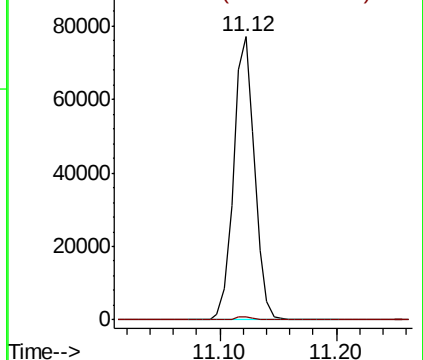
75 100

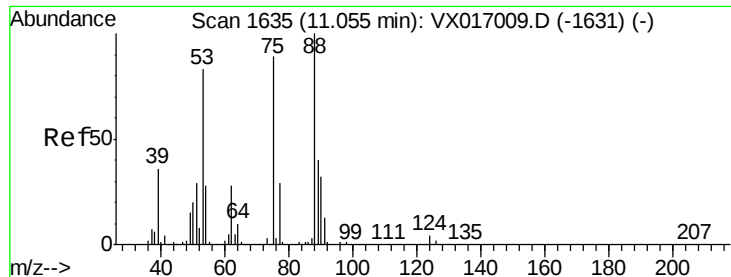
77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

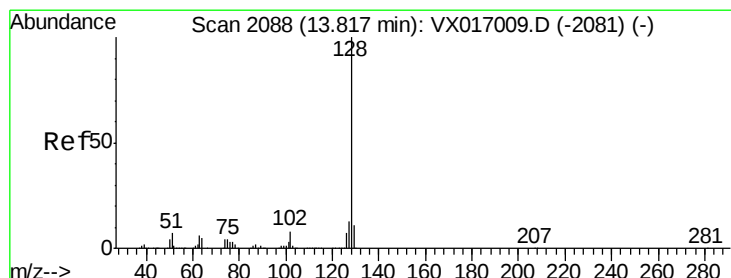
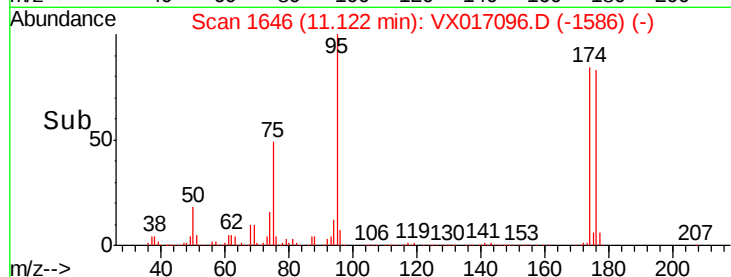
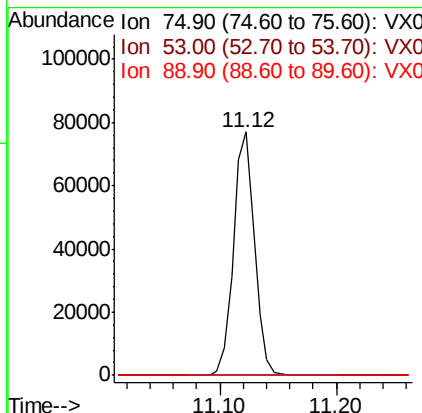
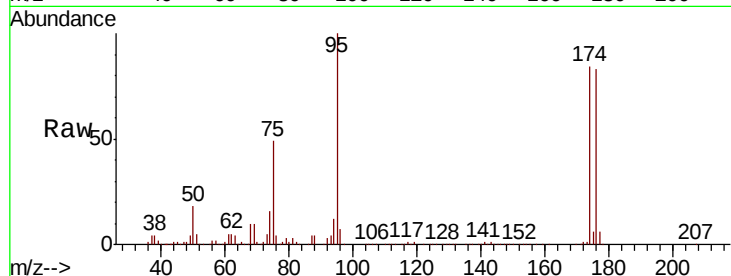




#81
trans-1,4-Dichloro-2-butene
Concen: 60.773 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX017096.D
Acq: 01 Jul 2020 14:29

Instrument :
MSVOA_X
ClientSampled :
I-LGC-3

Tot Ion: 75 Resp: 96603
Ion Ratio Lower Upper
75 100
53 0.2 72.4 108.6#
89 0.0 37.0 55.4#



#95
Naphthalene
Concen: 0.552 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. -0.00 min
Lab File: VX017096.D
Acq: 01 Jul 2020 14:29

Tgt Ion: 128 Resp: 7326
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.4
129 13.9 8.7 13.1#

