

Data File : VX016712.D
Acq On : 11 Jun 2020 18:13
Operator : JC/SP
Sample : L2977-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
I-LGC-2

Quant Time: Jun 12 06:59:06 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	199952	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	329662	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	325587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	163635	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	120429	48.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.00%	
35) Dibromofluoromethane	5.46	113	99676	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	
50) Toluene-d8	8.70	98	396317	50.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.32%	
62) 4-Bromofluorobenzene	11.12	95	156573	51.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.58%	

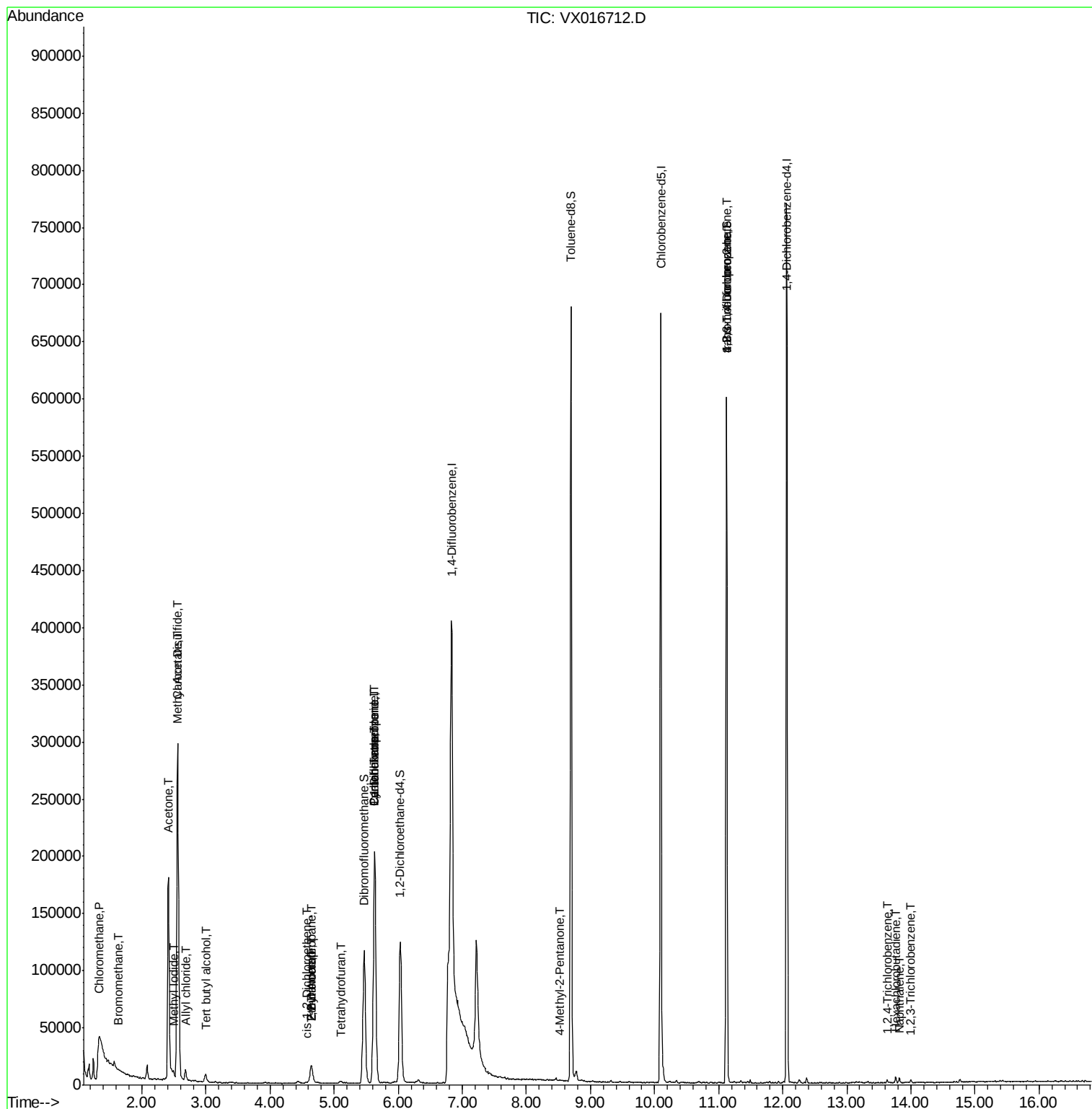
Target Compounds						Qvalue
3) Chloromethane	1.32	50	1229	0.517	ug/l #	56
5) Bromomethane	1.64	94	334	0.273	ug/l	87
10) Methyl Iodide	2.50	142	585	3.308	ug/l #	57
11) Tert butyl alcohol	3.00	59	4558	7.158	ug/l #	86
14) Allyl chloride	2.68	41	9882	2.793	ug/l #	47
16) Acetone	2.42	43	187582	172.422	ug/l	100
17) Carbon Disulfide	2.55	76	290397	50.827	ug/l	99
18) Methyl Acetate	2.57	43	32478	11.640	ug/l #	51
25) 2-Butanone	4.64	43	13036	7.072	ug/l	98
26) 2,2-Dichloropropane	4.65	77	802	0.255	ug/l #	53
27) cis-1,2-Dichloroethene	4.57	96	620	0.252	ug/l	89
29) Tetrahydrofuran	5.10	42	1411	1.185	ug/l #	82
31) Cyclohexane	5.63	56	3728	1.080	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	13628	4.366	ug/l #	51
37) Ethyl Acetate	4.64	43	13036	3.479	ug/l #	72
38) Carbon Tetrachloride	5.64	117	19338	5.895	ug/l #	17
51) 4-Methyl-2-Pentanone	8.52	43	981	0.270	ug/l	89
76) 1,2,3-Trichloropropane	11.12	75	76743	21.337	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	76743	52.485	ug/l #	14
93) 1,2,4-Trichlorobenzene	13.63	180	839	0.253	ug/l	92
94) Hexachlorobutadiene	13.77	225	973	0.748	ug/l	91
95) Naphthalene	13.82	128	2649	0.233	ug/l	96
96) 1,2,3-Trichlorobenzene	14.00	180	788	0.243	ug/l	96

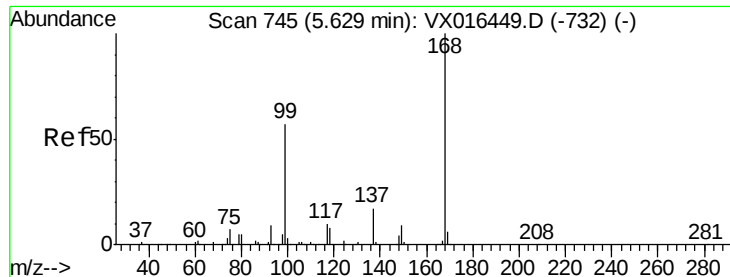
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

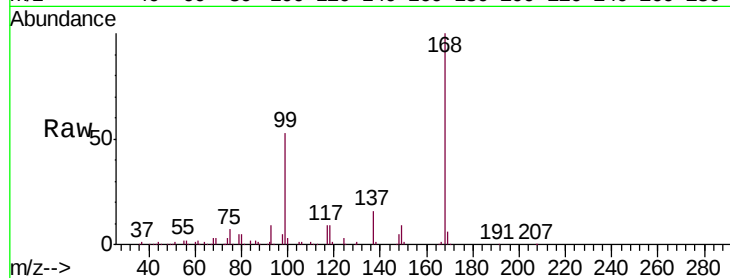
I-LGC-2

Tgt Ion:168 Resp: 199952

Ion Ratio Lower Upper

168 100

99 53.5 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

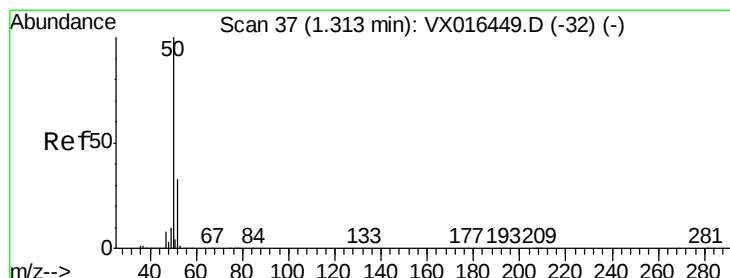
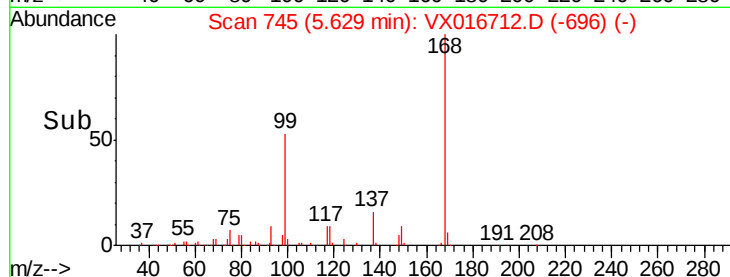
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.517 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016712.D

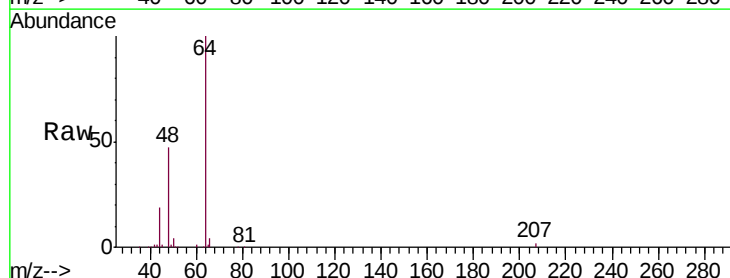
Acq: 11 Jun 2020 18:13

Tgt Ion: 50 Resp: 1229

Ion Ratio Lower Upper

50 100

52 7.9 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

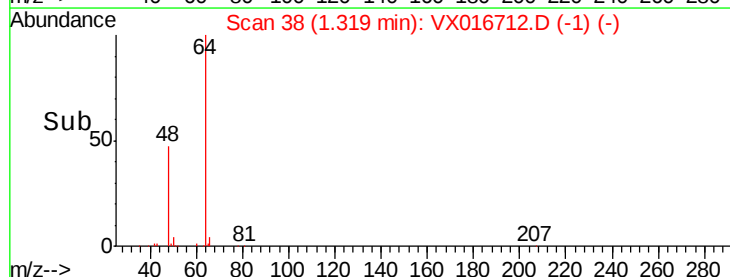
400

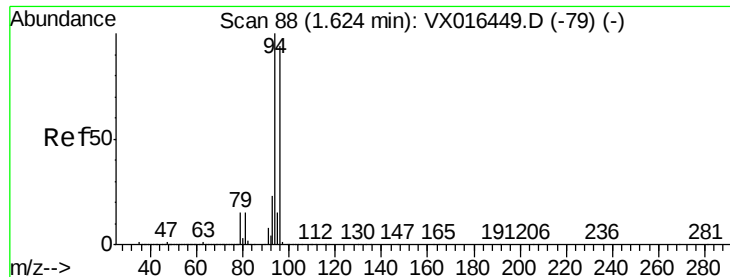
200

0

1.28 1.30 1.32 1.34

Time-->





#5

Bromomethane

Concen: 0.273 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampled :

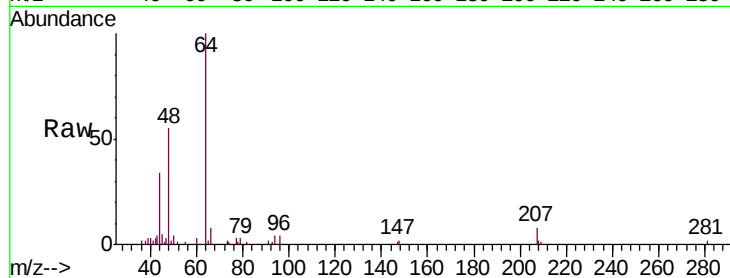
I-LGC-2

Tgt Ion: 94 Resp: 334

Ion Ratio Lower Upper

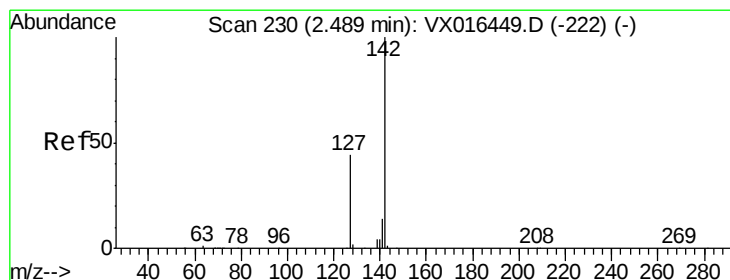
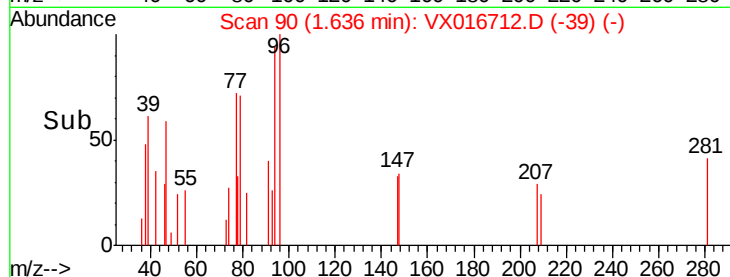
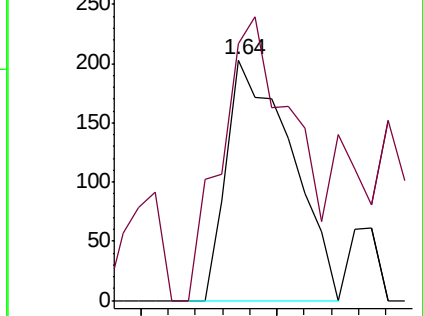
94 100

96 106.9 75.1 112.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 3.308 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

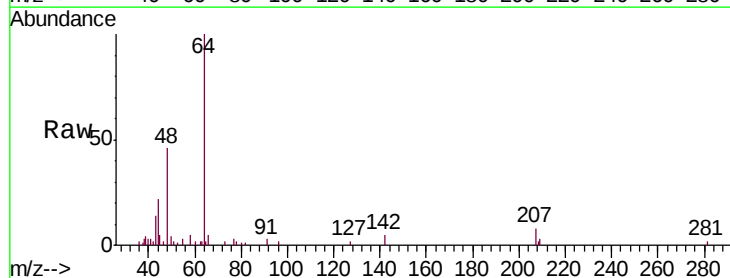
Tgt Ion: 142 Resp: 585

Ion Ratio Lower Upper

142 100

127 14.7 35.3 52.9#

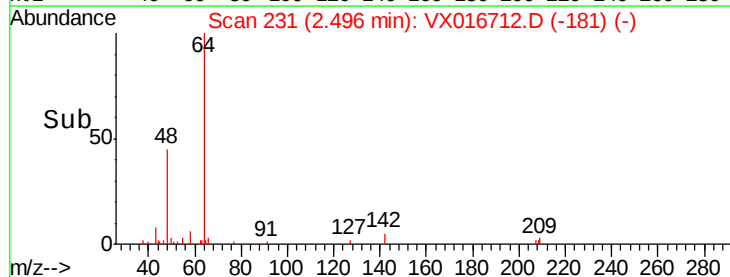
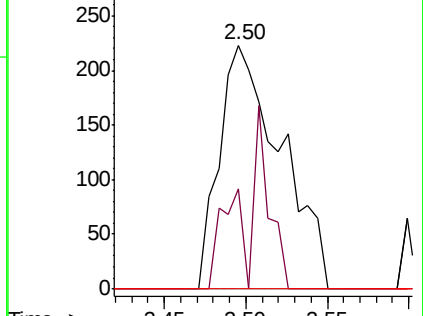
141 0.0 11.4 17.2#

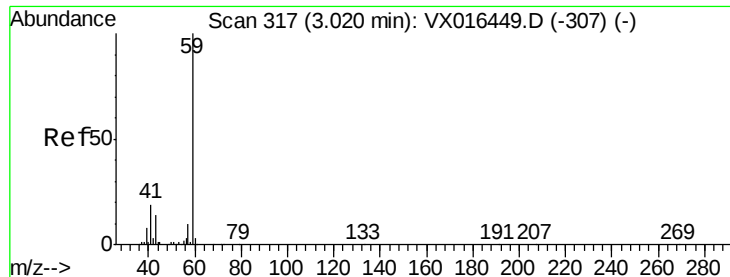


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



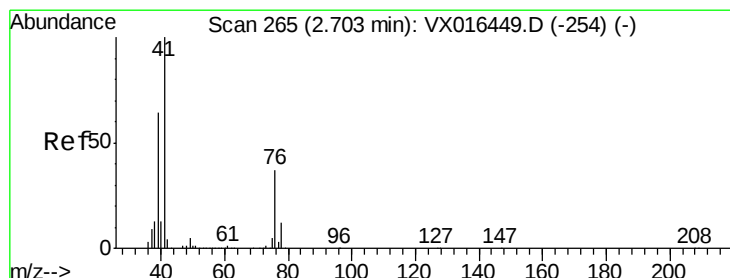
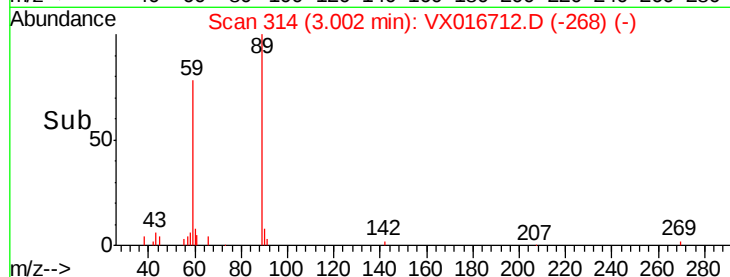
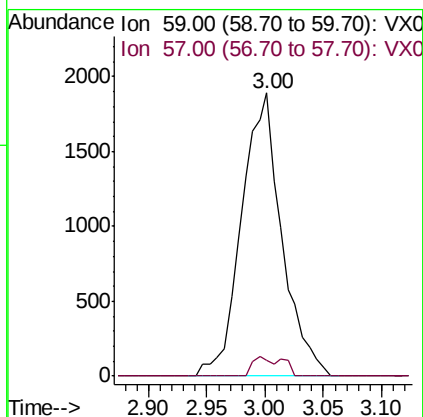
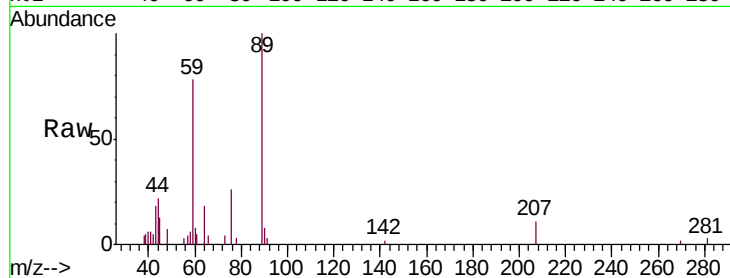


#11

Tert butyl alcohol
Concen: 7.158 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX016712.D
Acq: 11 Jun 2020 18:13

Instrument :
MSVOA_X
ClientSampleId :
I-LGC-2

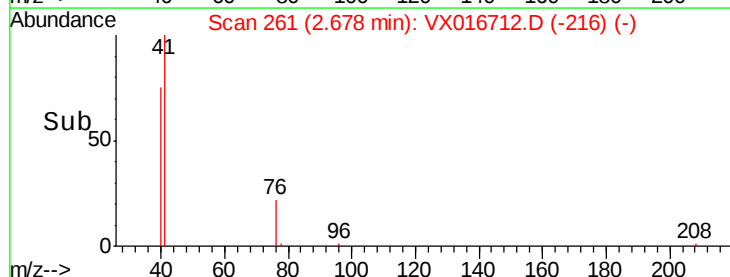
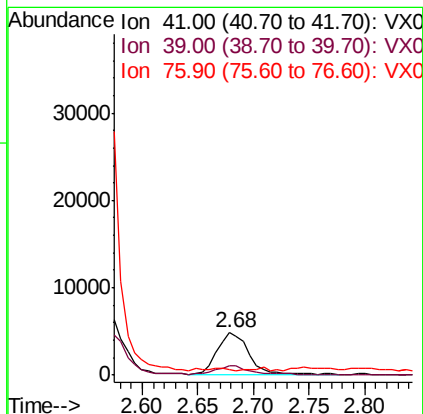
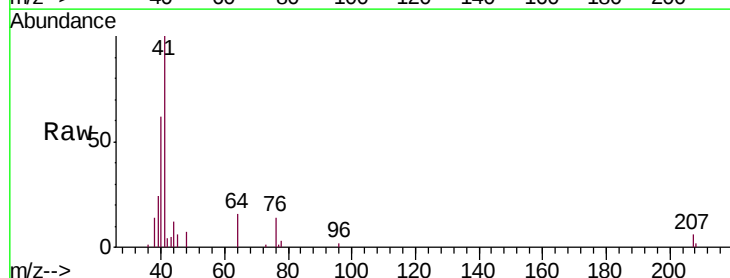
Tgt Ion: 59 Resp: 4558
Ion Ratio Lower Upper
59 100
57 5.1 8.2 12.4#

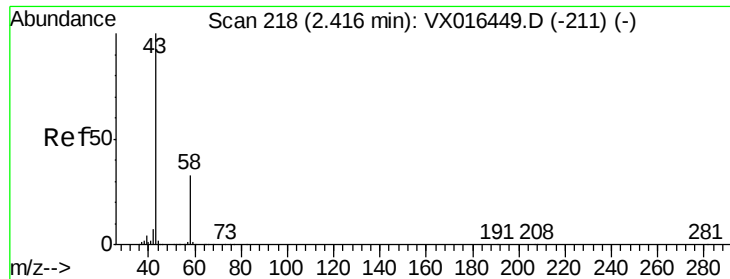


#14

Allyl chloride
Concen: 2.793 ug/l
RT: 2.68 min Scan# 261
Delta R.T. -0.02 min
Lab File: VX016712.D
Acq: 11 Jun 2020 18:13

Tgt Ion: 41 Resp: 9882
Ion Ratio Lower Upper
41 100
39 22.2 47.7 71.5#
76 0.0 26.6 40.0#





#16

Acetone

Concen: 172.422 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

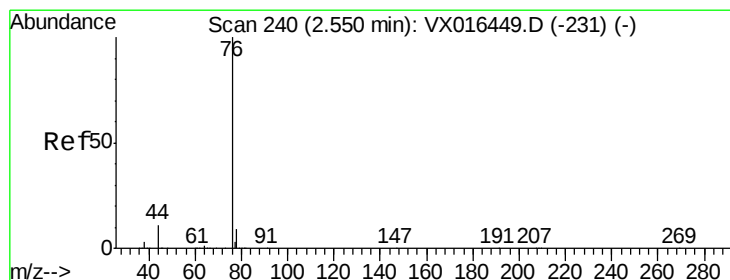
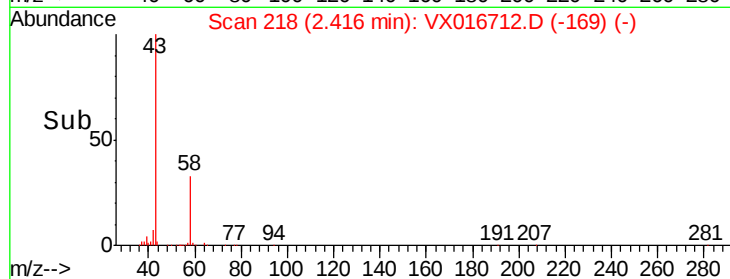
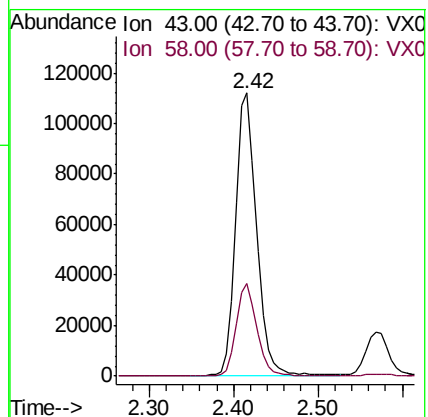
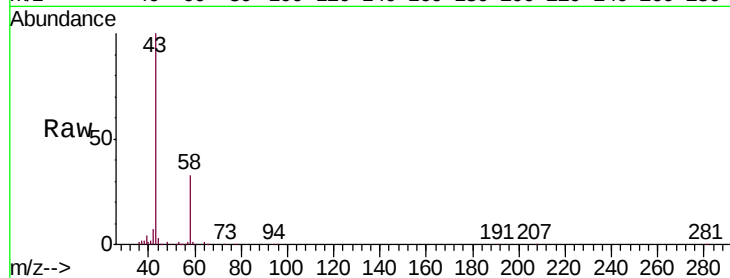
I-LGC-2

Tgt Ion: 43 Resp: 187582

Ion Ratio Lower Upper

43 100

58 32.7 26.1 39.1



#17

Carbon Disulfide

Concen: 50.827 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016712.D

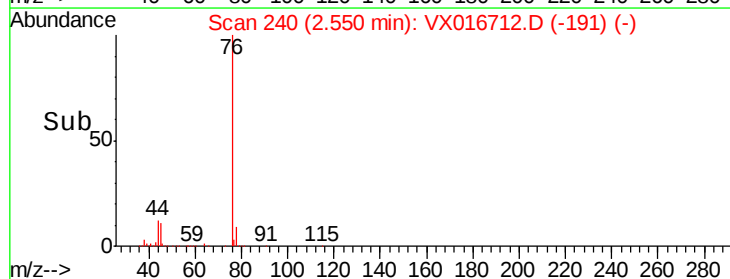
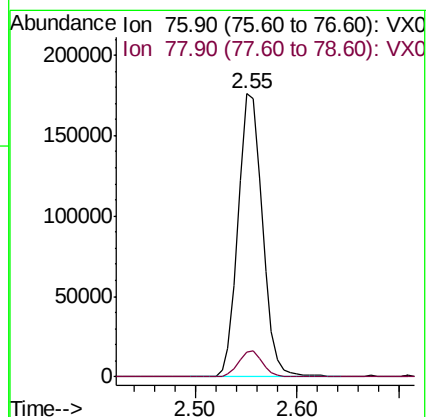
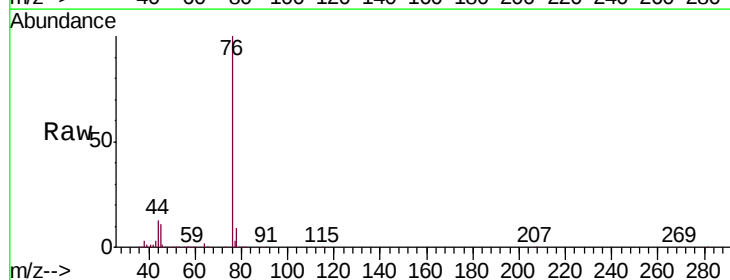
Acq: 11 Jun 2020 18:13

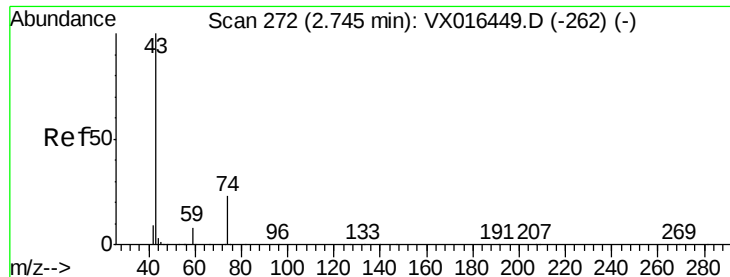
Tgt Ion: 76 Resp: 290397

Ion Ratio Lower Upper

76 100

78 8.7 7.4 11.0

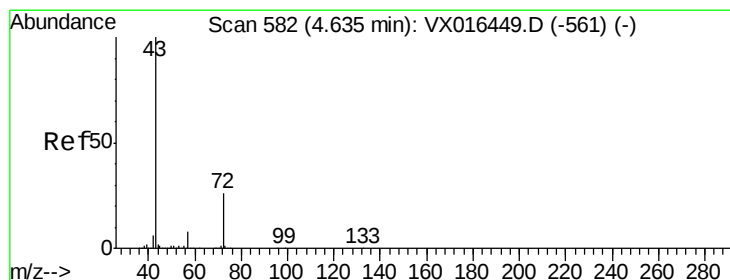
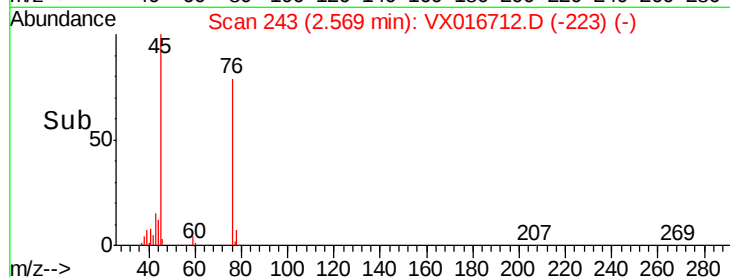
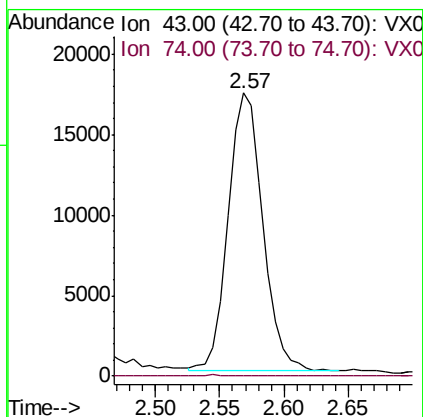
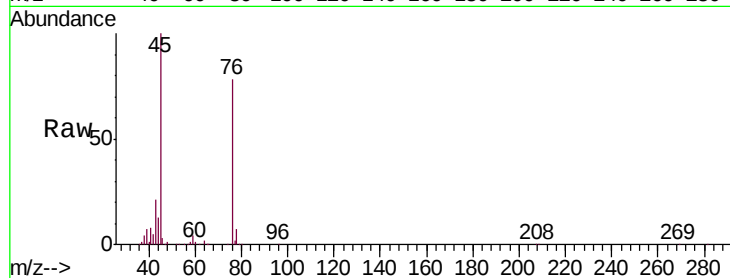




#18
Methyl Acetate
Concen: 11.640 ug/l
RT: 2.57 min Scan# 243
Delta R.T. -0.18 min
Lab File: VX016712.D
Acq: 11 Jun 2020 18:13

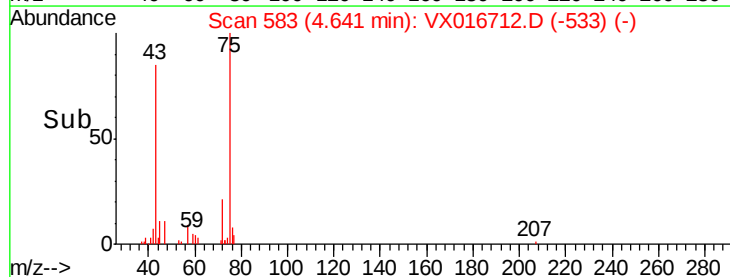
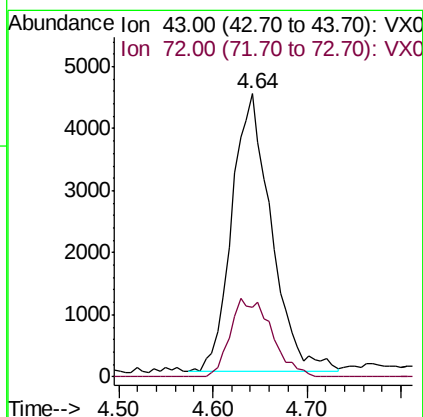
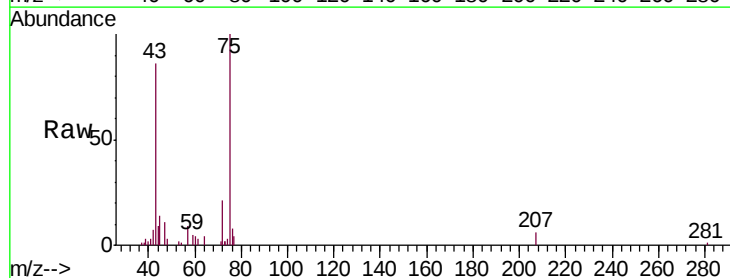
Instrument :
MSVOA_X
ClientSampleId :
I-LGC-2

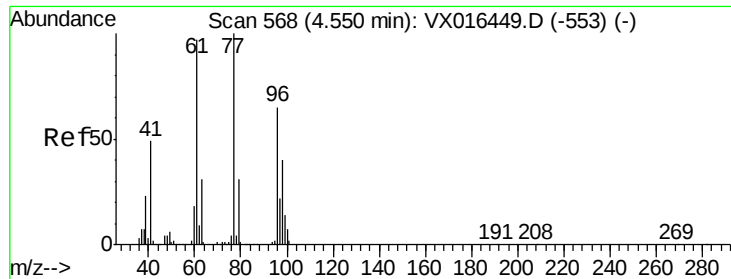
Tgt Ion: 43 Resp: 32478
Ion Ratio Lower Upper
43 100
74 0.1 19.7 29.5#



#25
2-Butanone
Concen: 7.072 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016712.D
Acq: 11 Jun 2020 18:13

Tgt Ion: 43 Resp: 13036
Ion Ratio Lower Upper
43 100
72 25.3 21.0 31.6

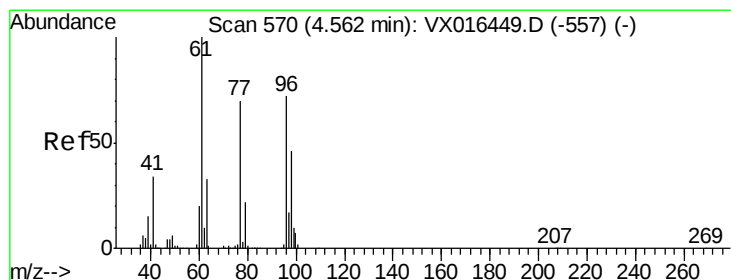
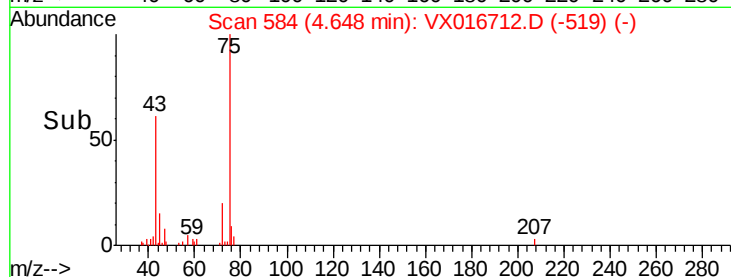
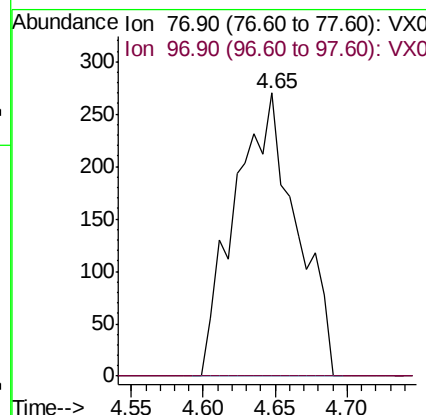
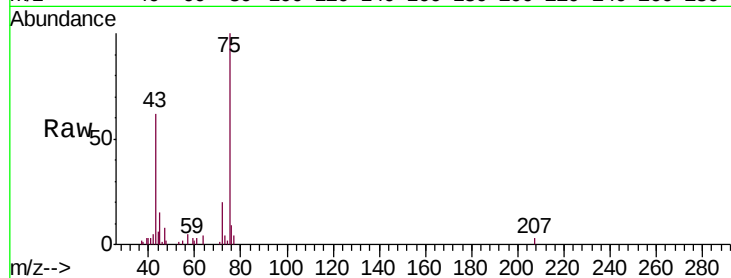




#26
 2,2-Dichloropropane
 Concen: 0.255 ug/l
 RT: 4.65 min Scan# 584
 Delta R.T. 0.10 min
 Lab File: VX016712.D
 Acq: 11 Jun 2020 18:13

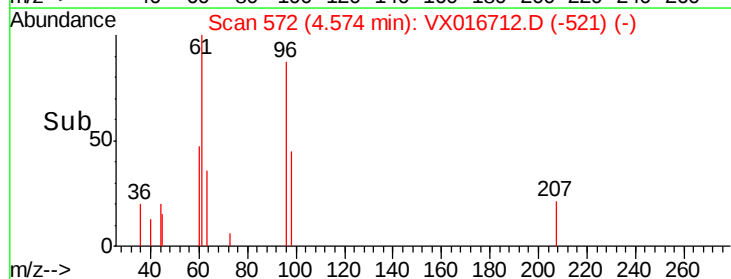
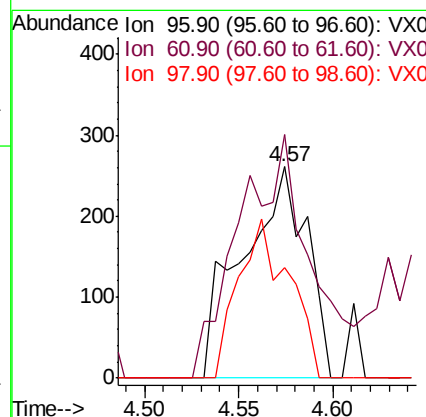
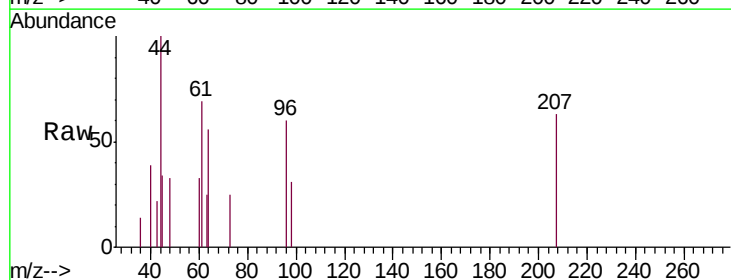
Instrument :
 MSVOA_X
 ClientSampled :
 I-LGC-2

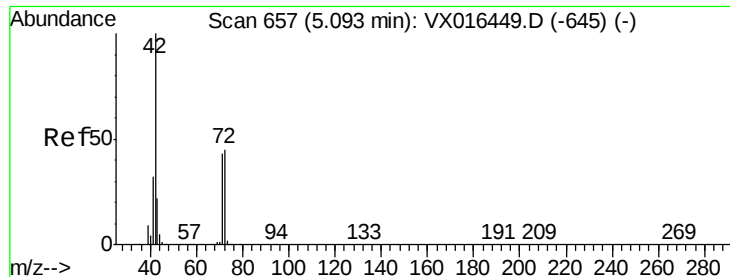
Tgt Ion: 77 Resp: 802
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.5 34.4#



#27
 cis-1,2-Dichloroethene
 Concen: 0.252 ug/l
 RT: 4.57 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VX016712.D
 Acq: 11 Jun 2020 18:13

Tgt Ion: 96 Resp: 620
 Ion Ratio Lower Upper
 96 100
 61 126.5 0.0 284.6
 98 58.9 0.0 127.2





#29

Tetrahydrofuran

Concen: 1.185 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampled :

I-LGC-2

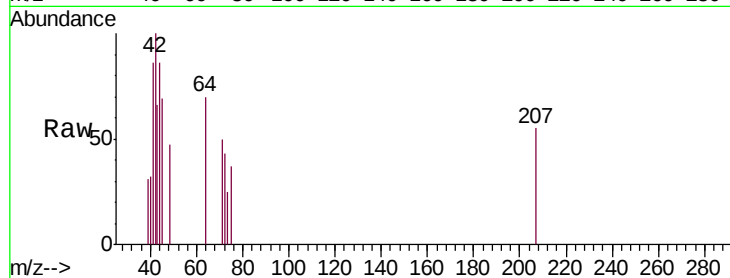
Tgt Ion: 42 Resp: 1411

Ion Ratio Lower Upper

42 100

72 34.0 37.0 55.4#

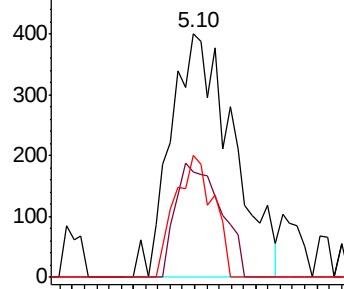
71 30.9 34.1 51.1#



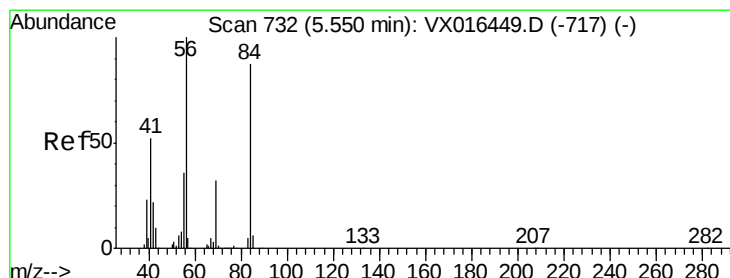
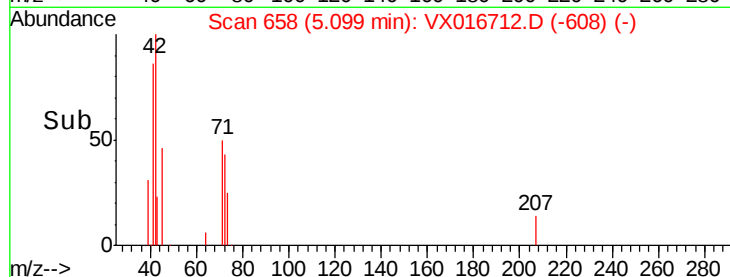
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->



#31

Cyclohexane

Concen: 1.080 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

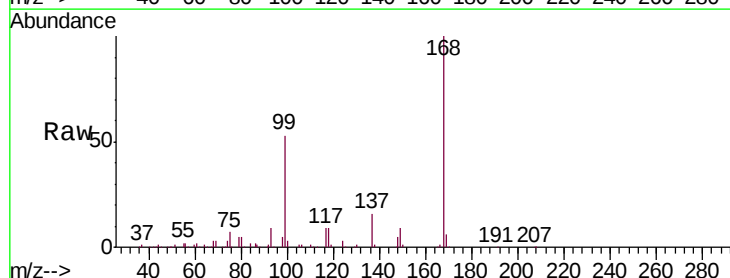
Tgt Ion: 56 Resp: 3728

Ion Ratio Lower Upper

56 100

69 201.8 25.7 38.5#

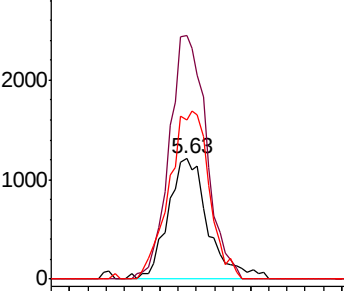
84 131.8 70.0 105.0#



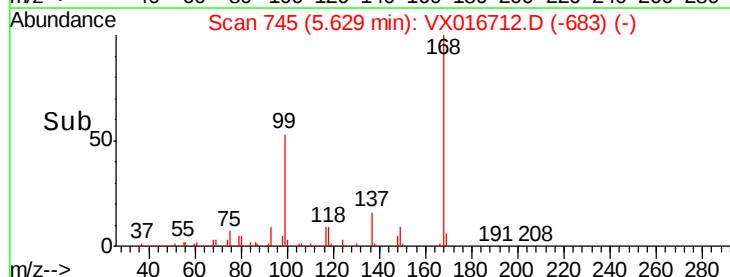
Abundance Ion 56.00 (55.70 to 56.70): VX0

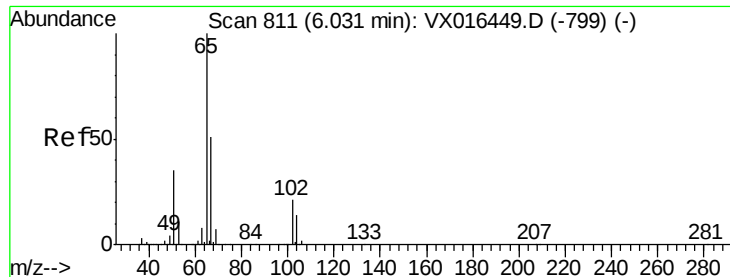
Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.499 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampled :

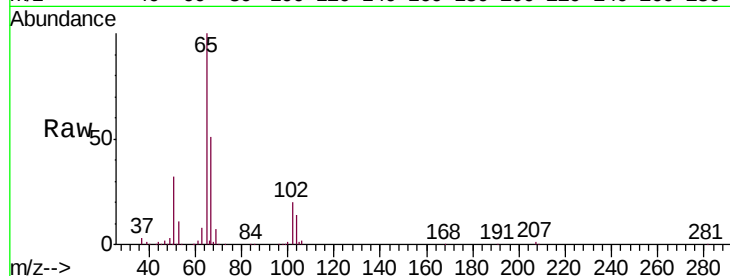
I-LGC-2

Tgt Ion: 65 Resp: 120429

Ion Ratio Lower Upper

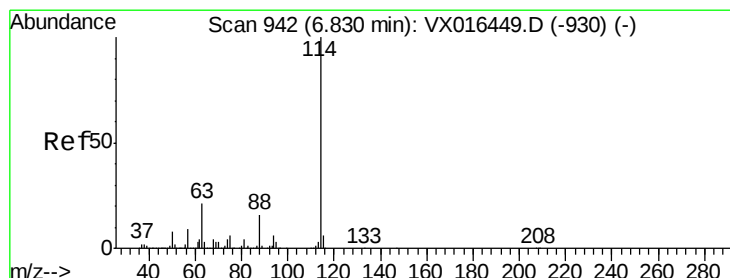
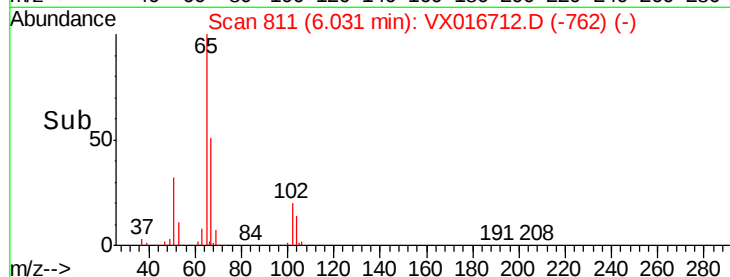
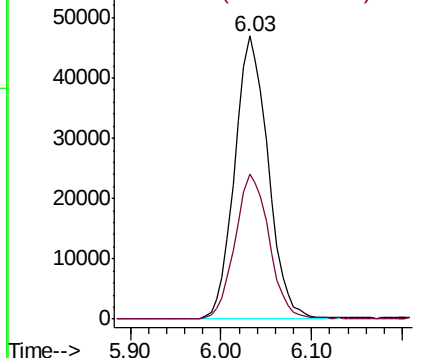
65 100

67 52.5 0.0 104.8



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: VX016712.D

Acq: 11 Jun 2020 18:13

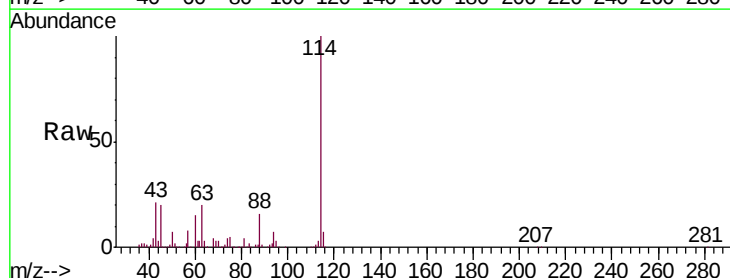
Tgt Ion: 114 Resp: 329662

Ion Ratio Lower Upper

114 100

63 19.6 0.0 42.6

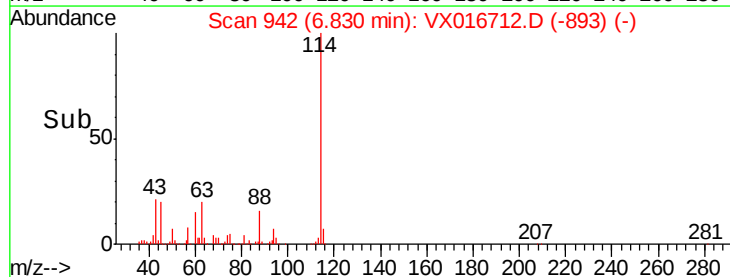
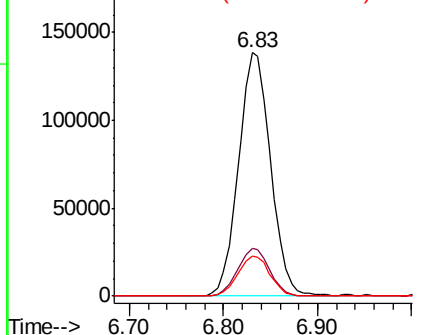
88 16.5 0.0 32.8

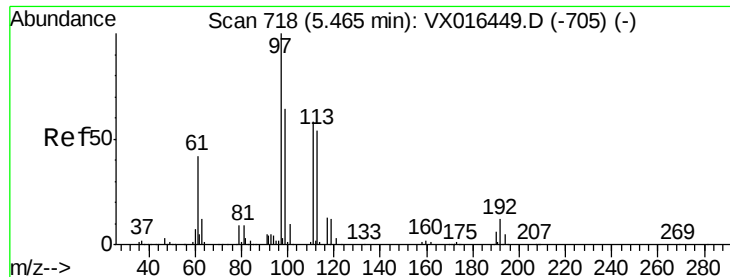


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

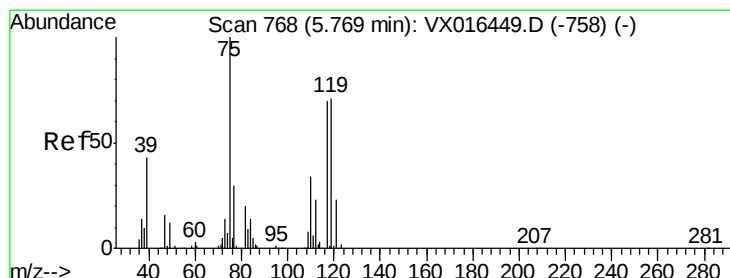
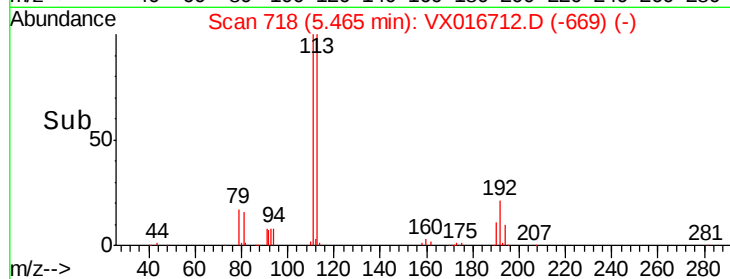
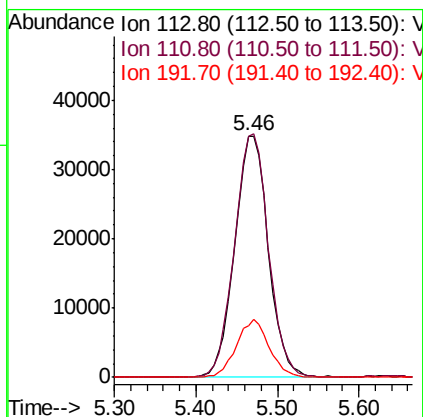
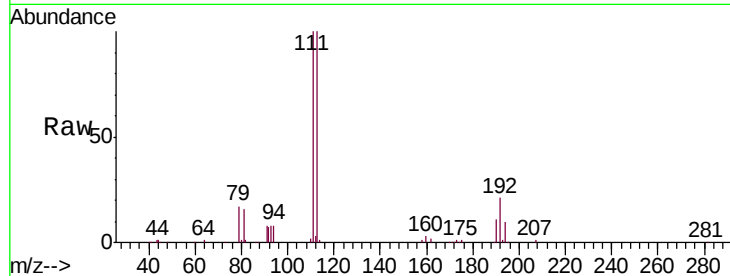




#35
 Dibromofluoromethane
 Concen: 49.104 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VX016712.D
 Acq: 11 Jun 2020 18:13

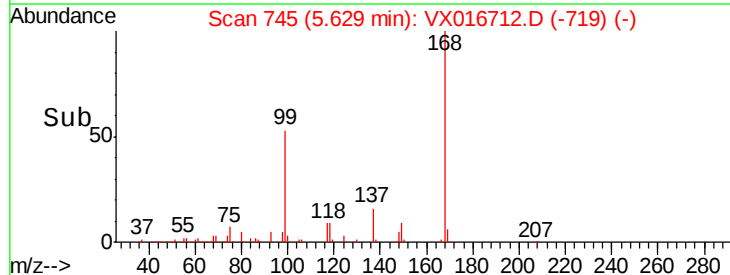
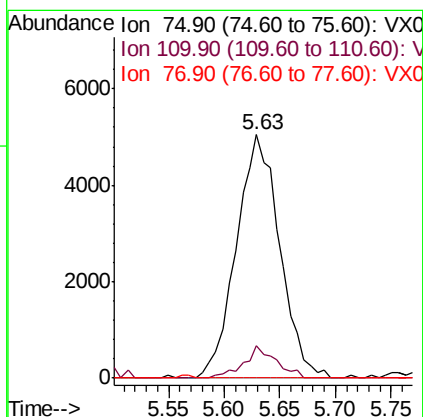
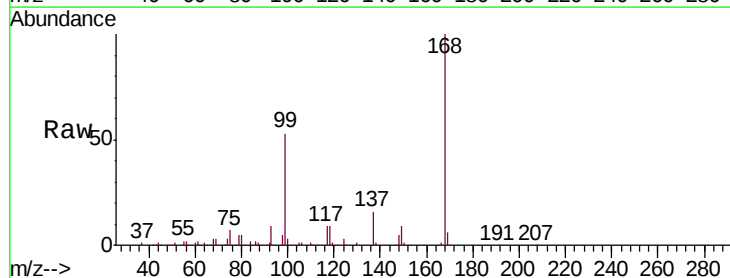
Instrument :
 MSVOA_X
 ClientSampleId :
 I-LGC-2

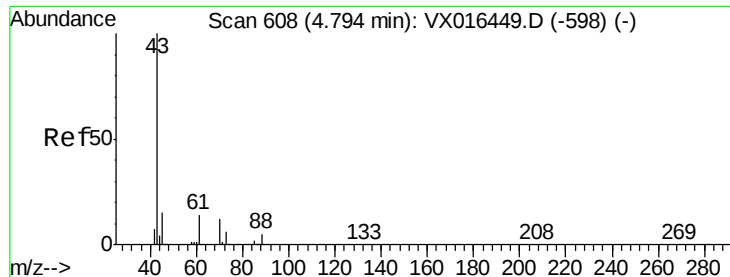
Tgt Ion:113 Resp: 99676
 Ion Ratio Lower Upper
 113 100
 111 101.8 83.0 124.6
 192 23.2 17.7 26.5



#36
 1,1-Dichloropropene
 Concen: 4.366 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016712.D
 Acq: 11 Jun 2020 18:13

Tgt Ion: 75 Resp: 13628
 Ion Ratio Lower Upper
 75 100
 110 9.8 17.4 52.3#
 77 0.0 24.2 36.4#

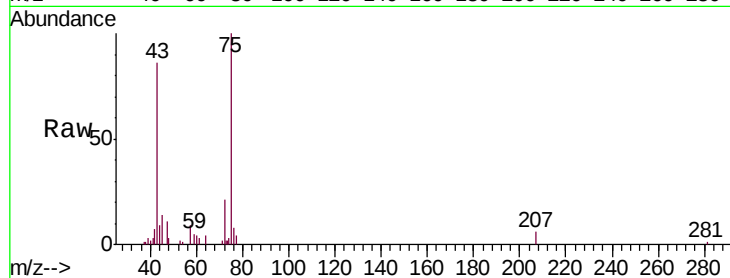




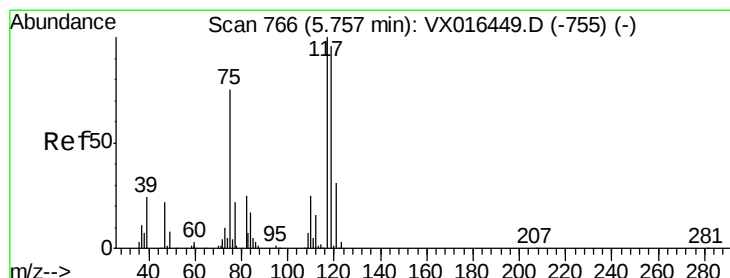
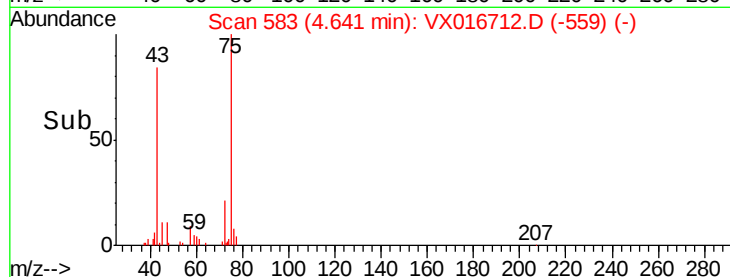
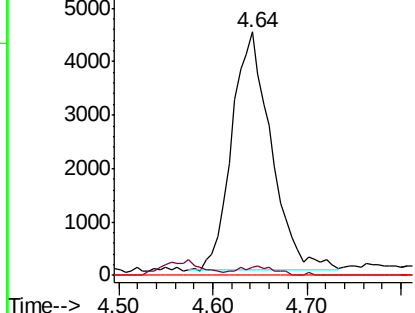
#37
Ethyl Acetate
Concen: 3.479 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.15 min
Lab File: VX016712.D
Acq: 11 Jun 2020 18:13

Instrument :
MSVOA_X
ClientSampleId :
I-LGC-2

Tgt Ion: 43 Resp: 13036
Ion Ratio Lower Upper
43 100
61 3.6 11.3 16.9#
70 0.0 9.3 13.9#

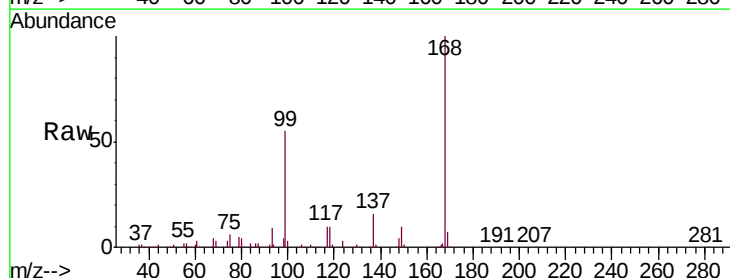


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

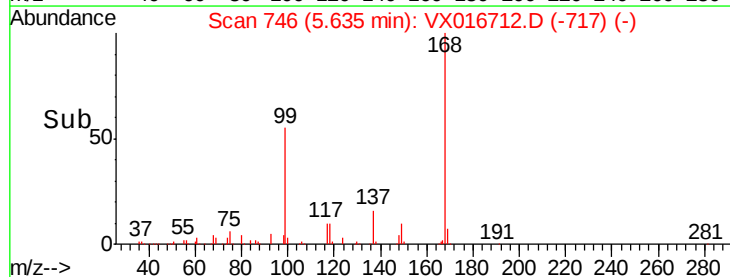
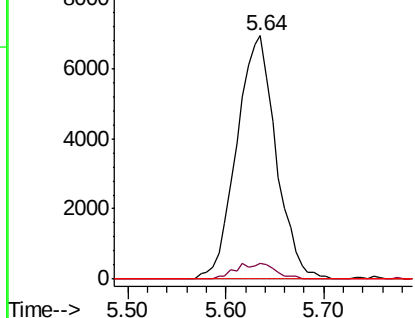


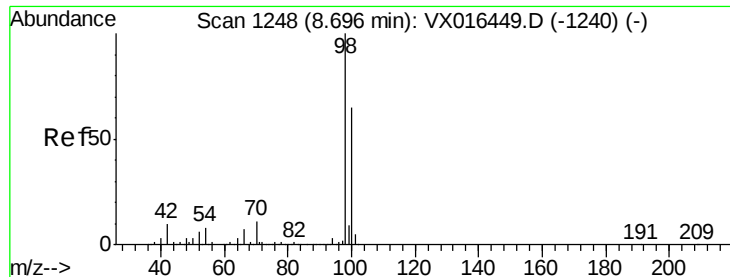
#38
Carbon Tetrachloride
Concen: 5.895 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.12 min
Lab File: VX016712.D
Acq: 11 Jun 2020 18:13

Tgt Ion: 117 Resp: 19338
Ion Ratio Lower Upper
117 100
119 6.7 76.3 114.5#
121 0.0 24.6 37.0#



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





#50

Toluene-d8

Concen: 50.162 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

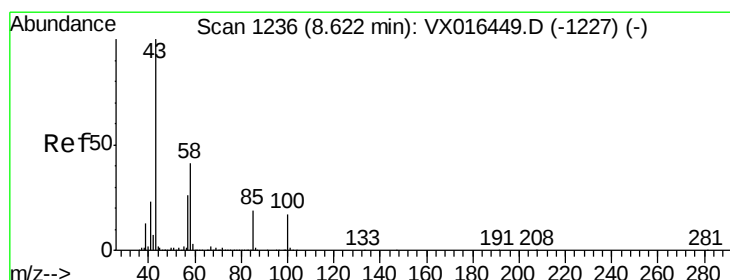
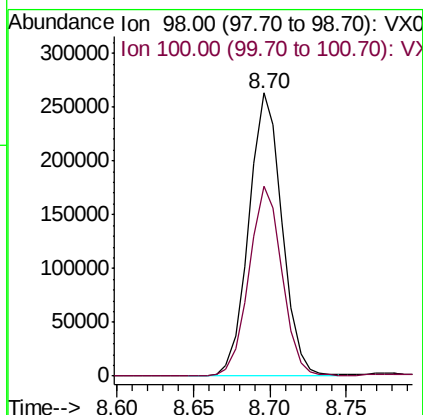
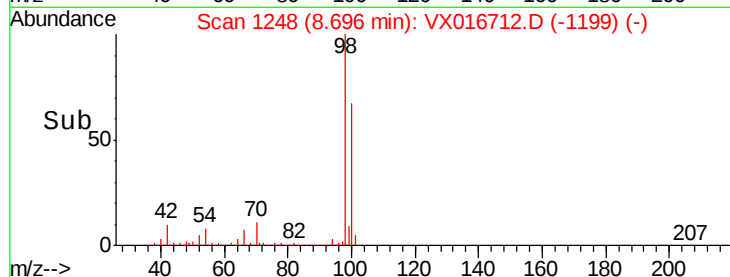
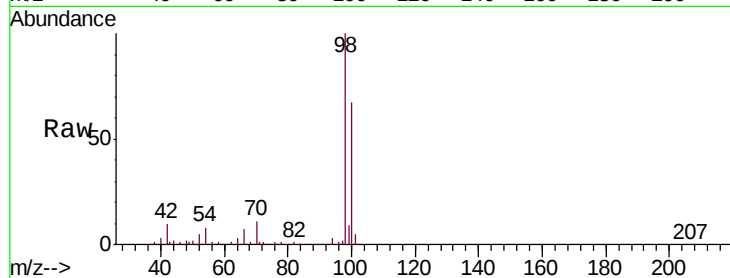
I-LGC-2

Tgt Ion: 98 Resp: 396317

Ion Ratio Lower Upper

98 100

100 66.8 53.8 80.6



#51

4-Methyl-2-Pentanone

Concen: 0.270 ug/l

RT: 8.52 min Scan# 1219

Delta R.T. -0.10 min

Lab File: VX016712.D

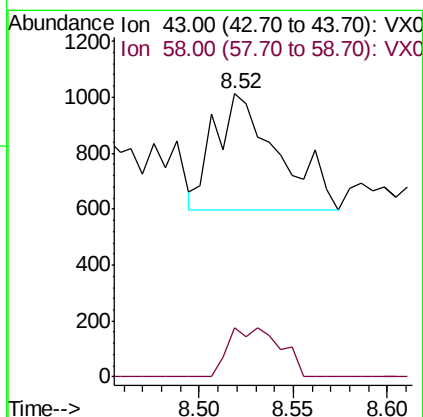
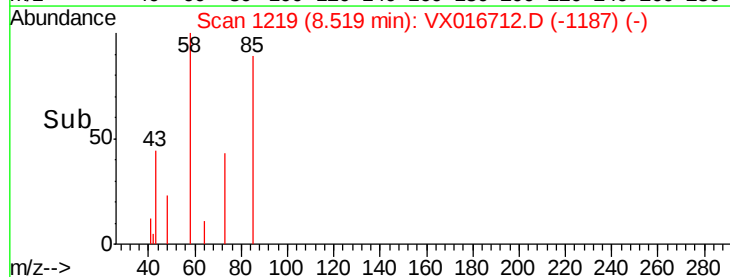
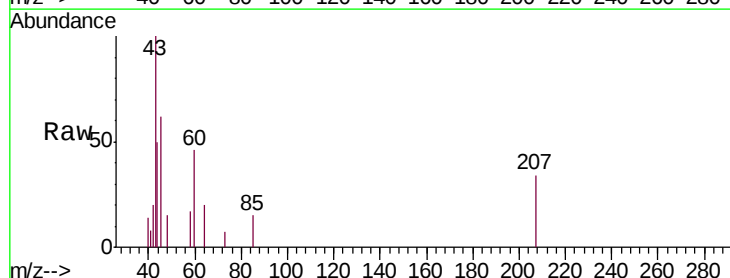
Acq: 11 Jun 2020 18:13

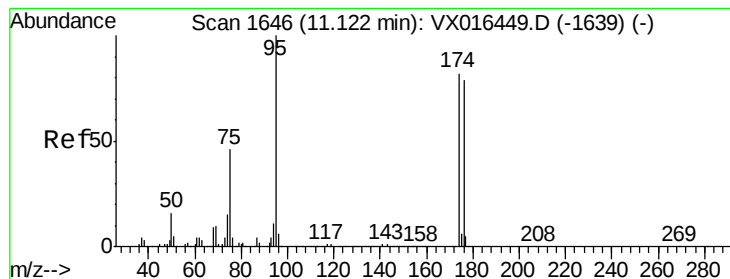
Tgt Ion: 43 Resp: 981

Ion Ratio Lower Upper

43 100

58 34.4 33.0 49.6





#62

4-Bromofluorobenzene

Concen: 51.288 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-2

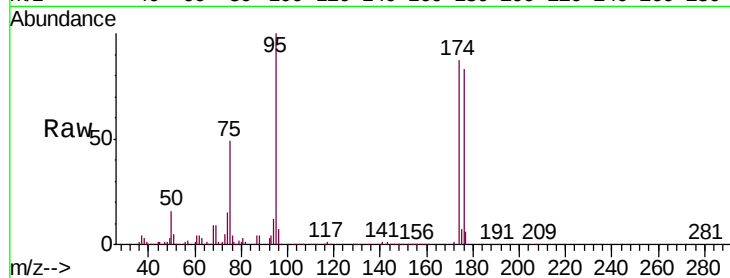
Tgt Ion: 95 Resp: 156573

Ion Ratio Lower Upper

95 100

174 86.7 0.0 163.0

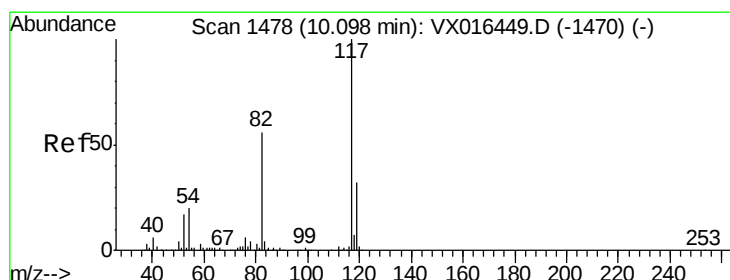
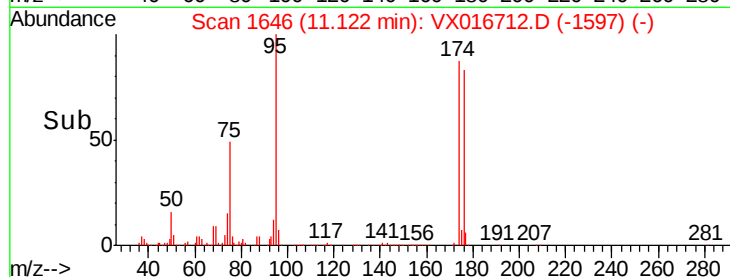
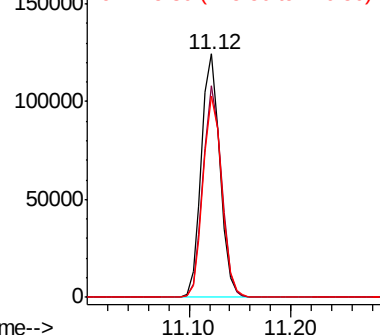
176 83.3 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

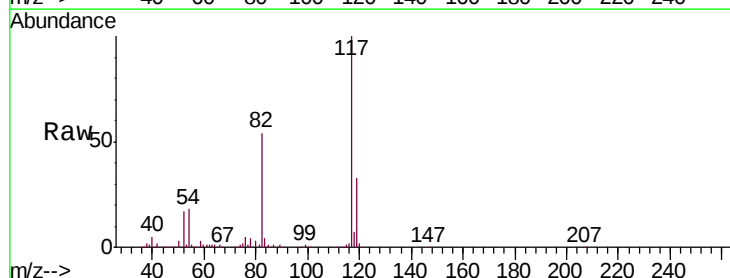
Tgt Ion: 117 Resp: 325587

Ion Ratio Lower Upper

117 100

82 54.1 45.0 67.6

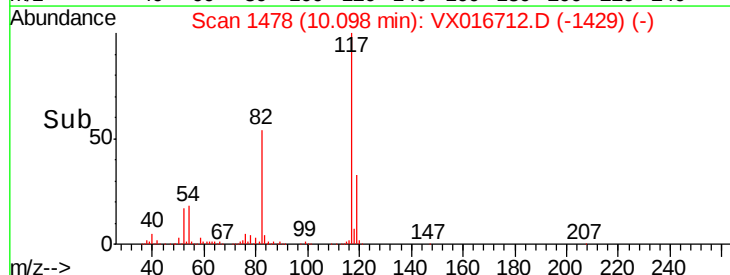
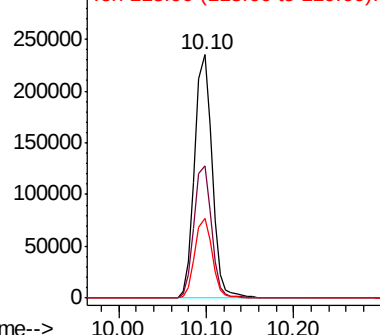
119 33.0 25.8 38.8

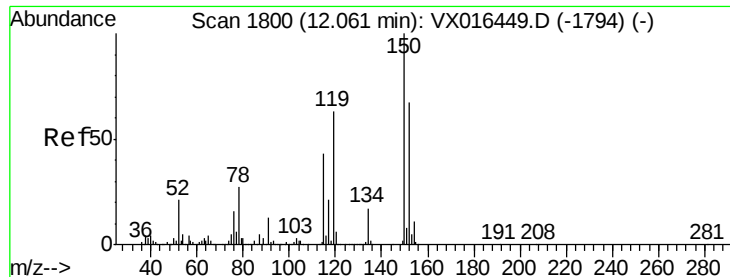


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampled :

I-LGC-2

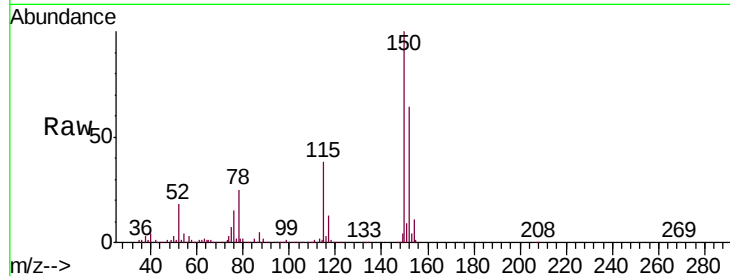
Tgt Ion:152 Resp: 163635

Ion Ratio Lower Upper

152 100

115 58.7 39.9 119.6

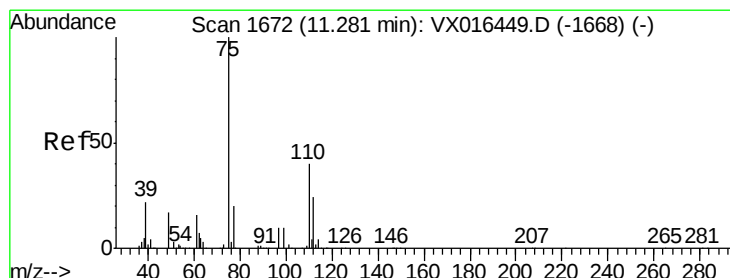
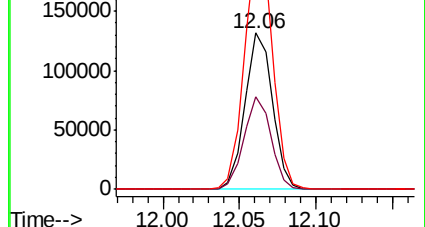
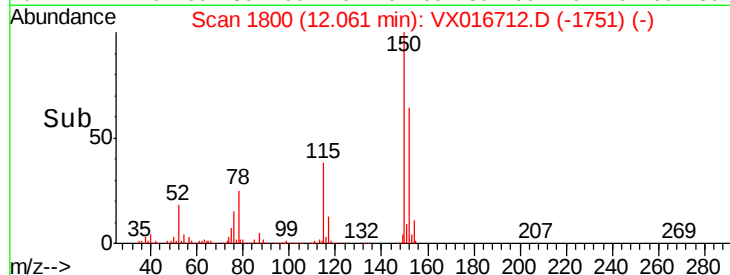
150 158.1 0.0 341.0



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: 21.337 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016712.D

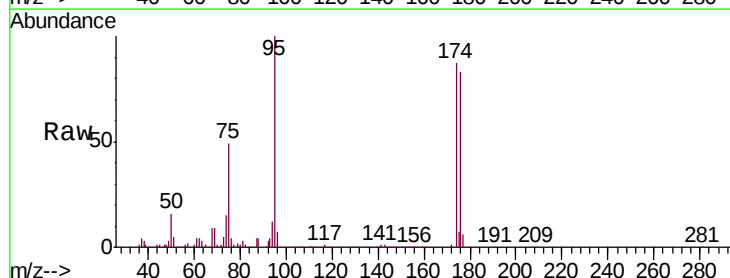
Acq: 11 Jun 2020 18:13

Tgt Ion: 75 Resp: 76743

Ion Ratio Lower Upper

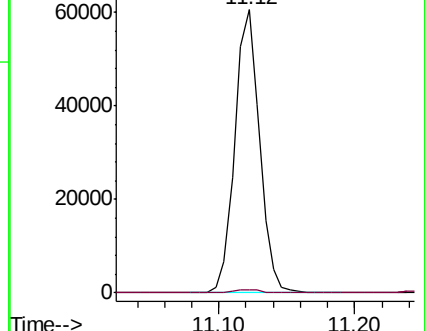
75 100

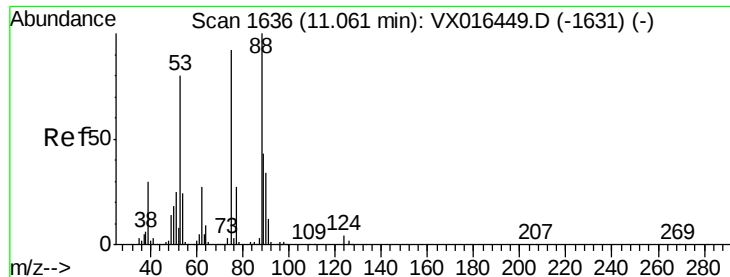
77 1.3 21.3 63.7#



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: 52.485 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-2

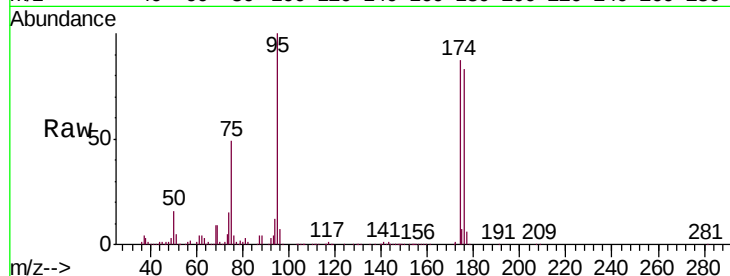
Tgt Ion: 75 Resp: 76743

Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

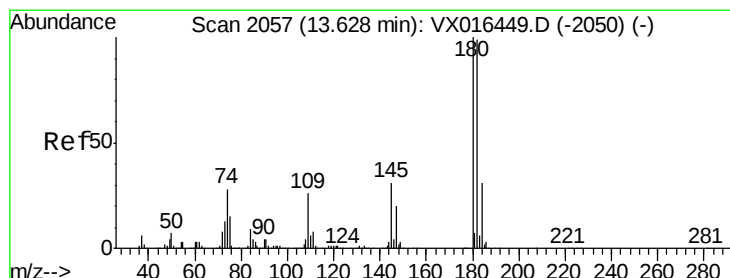
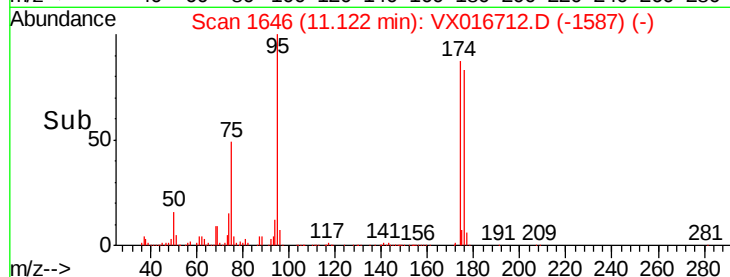
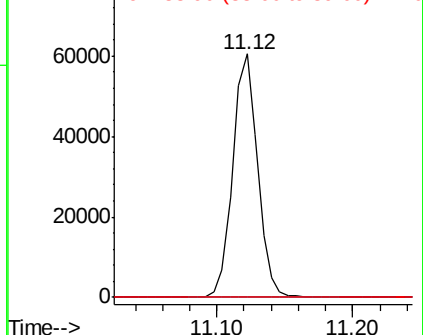
89 0.0 36.6 55.0#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.253 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

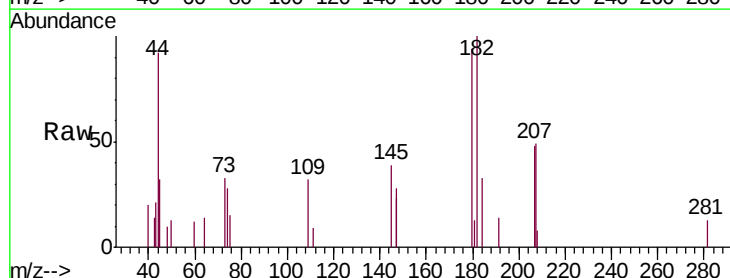
Tgt Ion: 180 Resp: 839

Ion Ratio Lower Upper

180 100

182 103.1 48.3 144.8

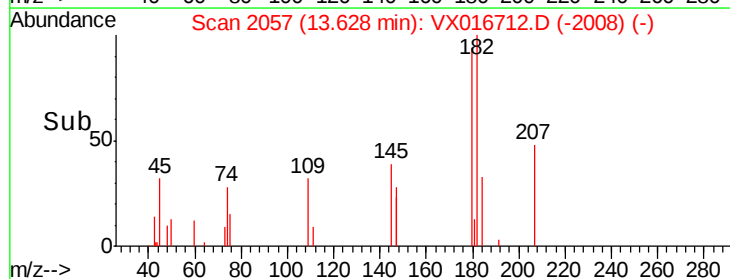
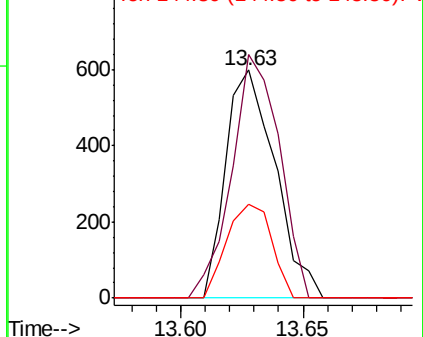
145 37.7 15.4 46.2

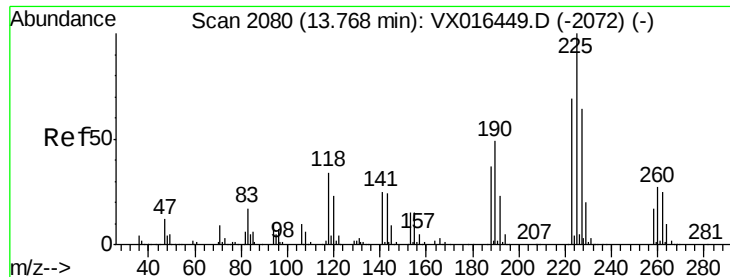


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.748 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

Instrument :

MSVOA_X

ClientSampleId :

I-LGC-2

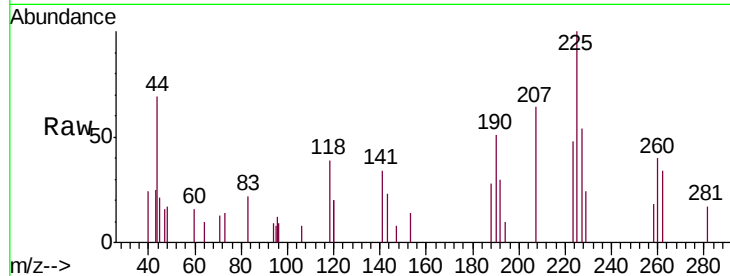
Tgt Ion: 225 Resp: 973

Ion Ratio Lower Upper

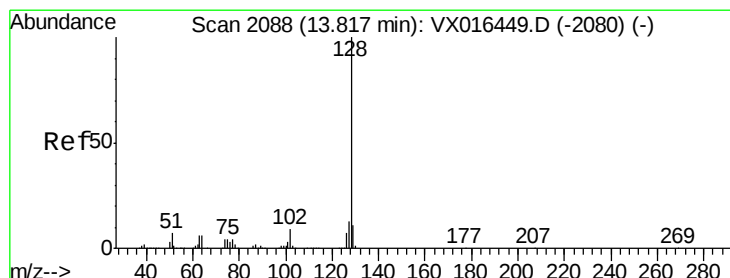
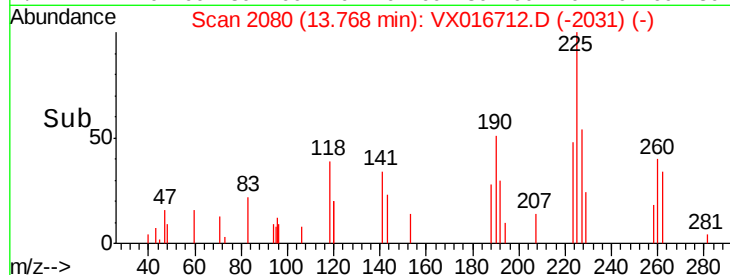
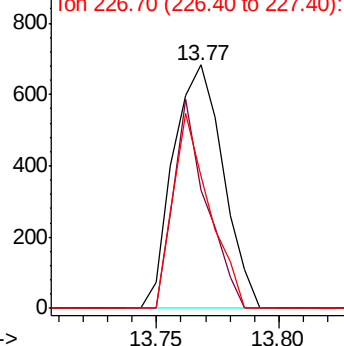
225 100

223 56.1 32.3 96.8

227 57.9 31.6 94.7



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: 0.233 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX016712.D

Acq: 11 Jun 2020 18:13

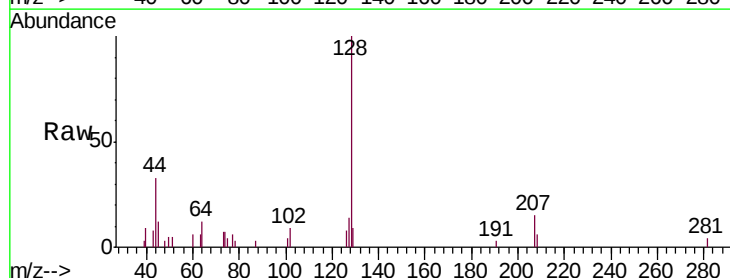
Tgt Ion: 128 Resp: 2649

Ion Ratio Lower Upper

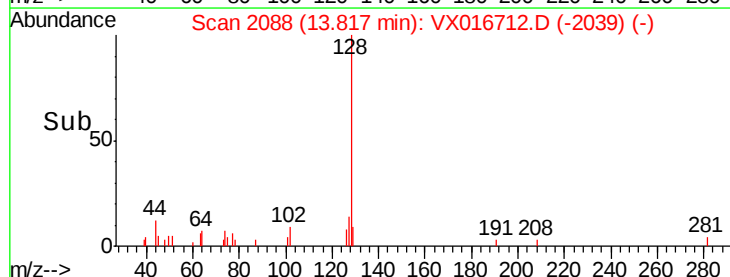
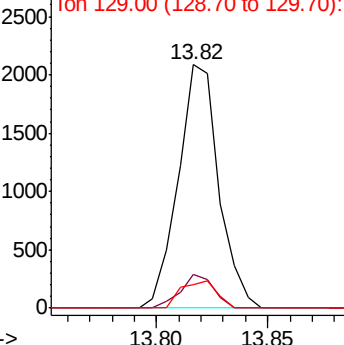
128 100

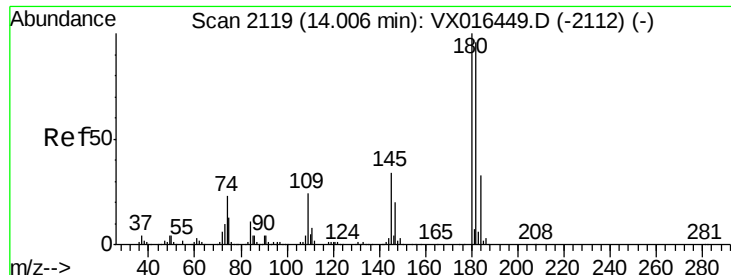
127 11.3 10.6 15.8

129 9.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

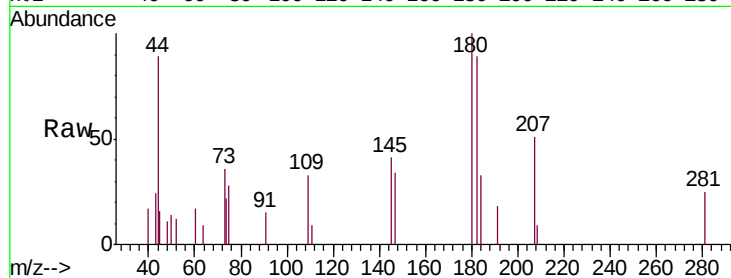




#96
 1,2,3-Trichlorobenzene
 Concen: 0.243 ug/l
 RT: 14.00 min Scan# 2118
 Delta R.T. -0.01 min
 Lab File: VX016712.D
 Acq: 11 Jun 2020 18:13

Instrument :
 MSVOA_X
 ClientSampleId :
 I-LGC-2

Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.1	48.6	145.8
145	31.6	16.6	49.8



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

