

Data Path : W:\HPCHEM1\MSVOA U\DATA\VU043018\
 Data File : VU023537.D
 Acq On : 30 Apr 2018 19:59
 Operator : MD/SY
 Sample : J2241-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 1220

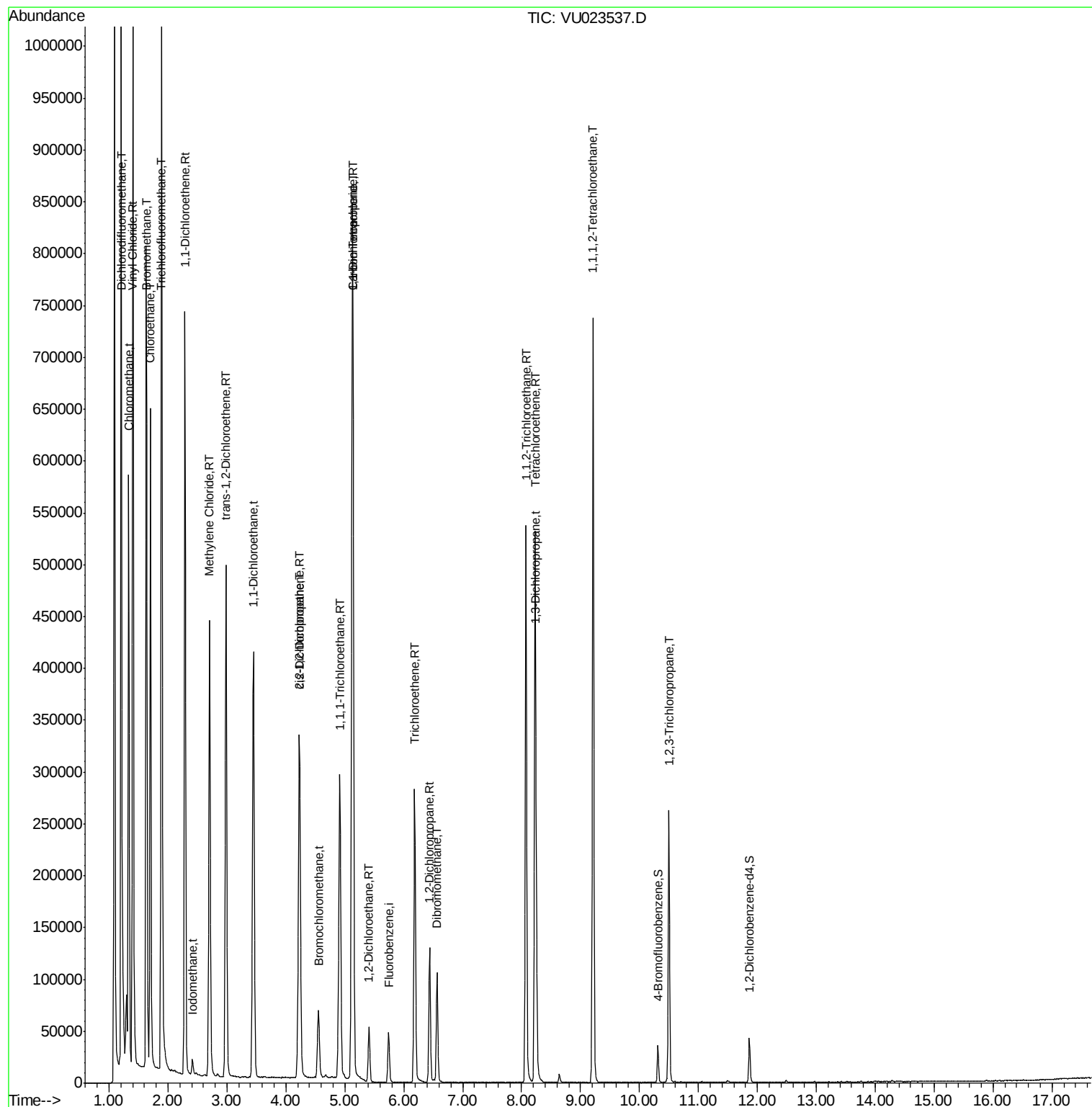
Quant Time: May 01 05:35:14 2018
 Quant Method : W:\HPCHEM1\MSVOA U\METHOD\524U043018DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue May 01 05:06:52 2018
 Response via : Initial Calibration

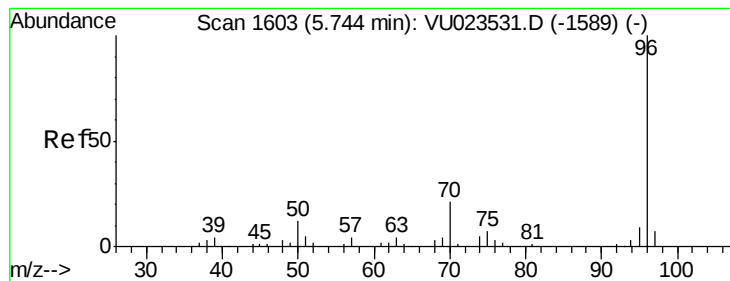
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	46908	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	12372	0.81	ug/l	0.00
Spiked Amount 1.000			Recovery	=	81.00%	
68) 1,2-Dichlorobenzene-d4	11.87	152	12494	0.84	ug/l	0.00
Spiked Amount 1.000			Recovery	=	84.00%	
Target Compounds						Ovalue
2) Dichlorodifluoromethane	1.21	85	754018	49.51	ug/l	100
3) Chloromethane	1.33	50	449415	25.47	ug/l	100
4) Vinyl Chloride	1.40	62	798539	47.17	ug/l	98
5) Bromomethane	1.63	94	363389	40.15	ug/l	100
6) Chloroethane	1.70	64	412579	43.78	ug/l	99
7) Trichlorofluoromethane	1.89	101	799117	41.12	ug/l	99
9) 1,1-Dichloroethene	2.29	96	229668	20.72	ug/l	99
10) Iodomethane	2.42	142	15314	1.16	ug/l	95
15) Methylene Chloride	2.70	84	193067	15.29	ug/l	99
16) trans-1,2-Dichloroethene	2.99	96	187314	15.77	ug/l	100
17) 1,1-Dichloroethane	3.45	63	453258	19.38	ug/l	100
21) 2,2-Dichloropropane	4.23	77	79559	4.29	ug/l	91
22) cis-1,2-Dichloroethene	4.23	96	127946	9.96	ug/l	95
26) Bromochloromethane	4.55	128	20787	4.09	ug/l	99
28) 1,1,1-Trichloroethane	4.91	97	223261	12.35	ug/l	99
29) 1,1-Dichloropropene	5.13	75	280551	15.82	ug/l	99
30) Carbon Tetrachloride	5.13	117	261919	17.23	ug/l	99
36) 1,2-Dichloroethane	5.41	62	46580	3.13	ug/l	99
37) Trichloroethene	6.19	130	99925	7.06	ug/l	99
38) 1,2-Dichloropropane	6.44	63	52677	3.64	ug/l	98
43) Dibromomethane	6.56	93	41858	6.73	ug/l	99
52) 1,1,2-Trichloroethane	8.07	97	168792	19.08	ug/l	98
53) 1,3-Dichloropropane	8.25	76	68743	4.37	ug/l	98
58) Tetrachloroethene	8.23	164	119575	9.27	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.21	131	200402	18.11	ug/l	100
71) 1,2,3-Trichloropropane	10.50	75	114447	16.04	ug/l #	97
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_U
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1220

Quant Time: May 01 05:35:14 2018
Quant Method : W:\HPCHEM1\MSVOA U\METHOD\524U043018DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue May 01 05:06:52 2018
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.00 ug/l

RT: 5.74 min Scan# 1602

Delta R.T. -0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

Instrument :
MSVOA_U
ClientSampleId :
1220

Tot Ion: 96 Resp: 46908

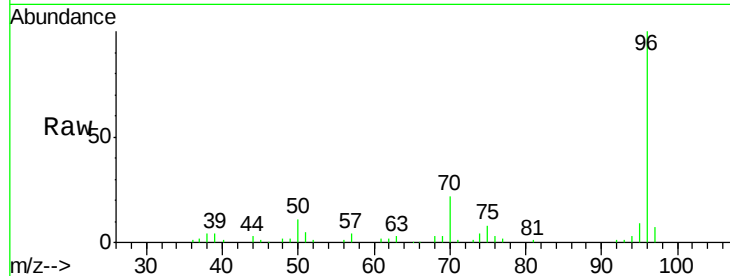
Ion Ratio Lower Upper

96 100

70 21.6 16.2 24.4

95 9.0 6.9 10.3

97 0.0 0.0 0.0

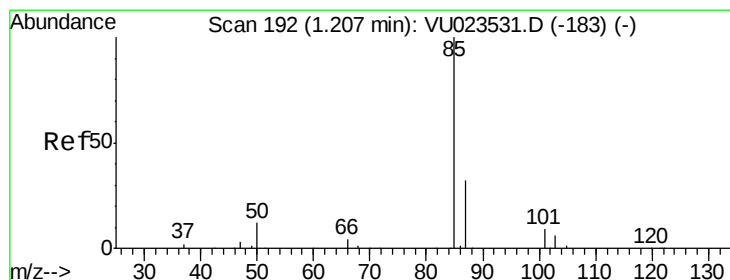
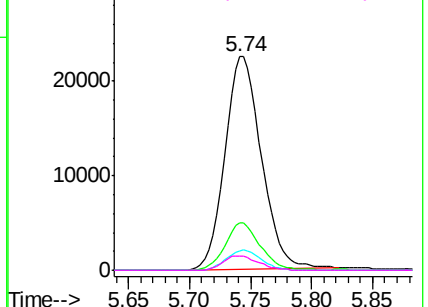
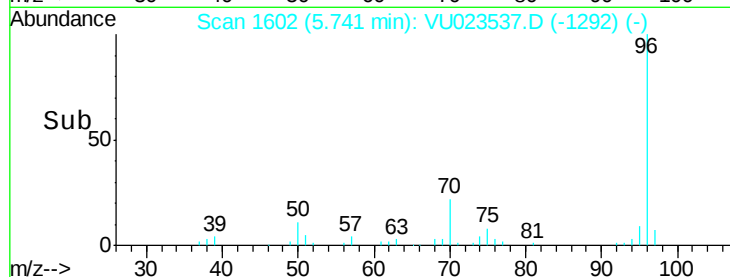


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0



#2

Dichlorodifluoromethane

Concen: 49.51 ug/l

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU023537.D

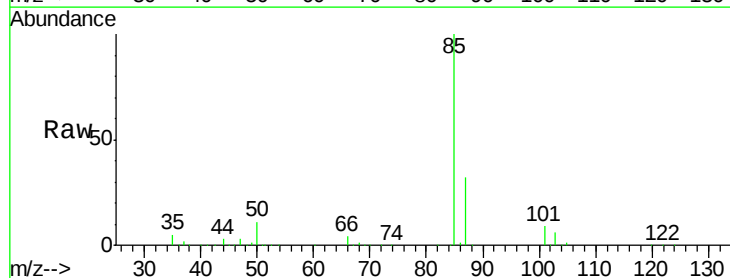
Acq: 30 Apr 2018 19:59

Tgt Ion: 85 Resp: 754018

Ion Ratio Lower Upper

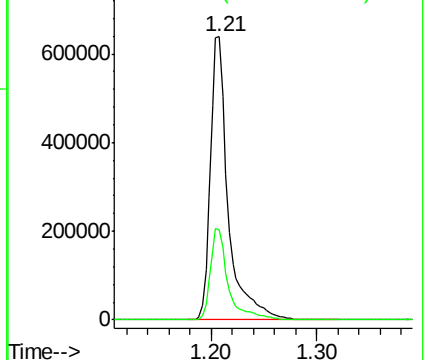
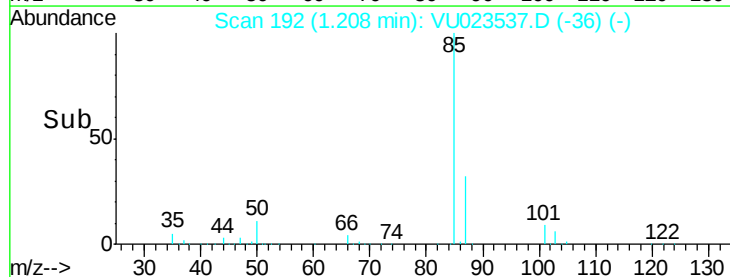
85 100

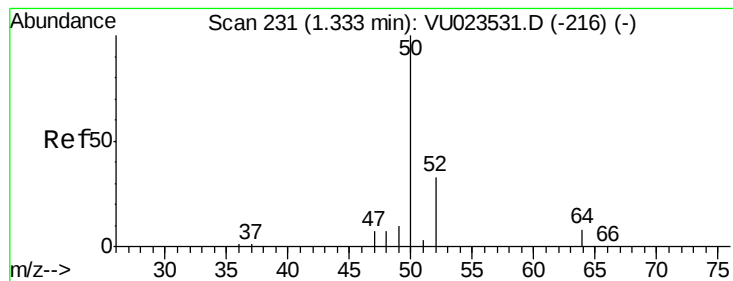
87 32.1 16.2 48.5



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#3

Chloromethane

Concen: 25.47 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

Instrument :

MSVOA_U

ClientSampleId :

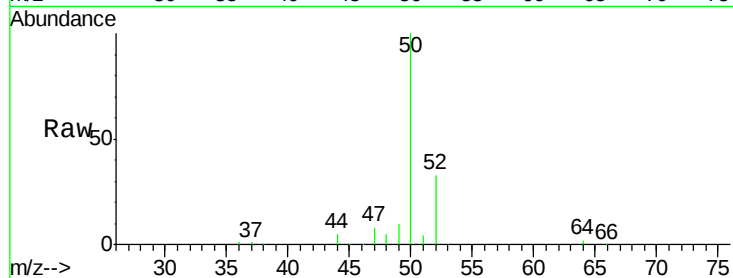
1220

Tot Ion: 50 Resp: 449415

Ion Ratio Lower Upper

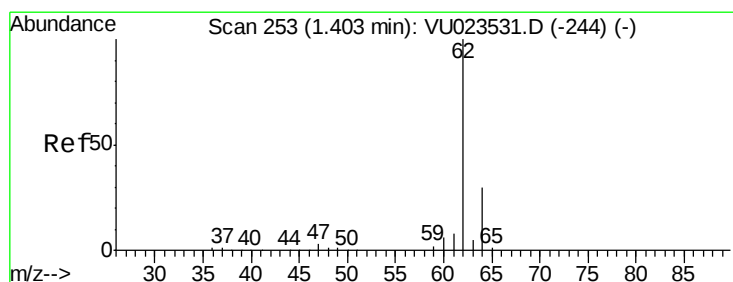
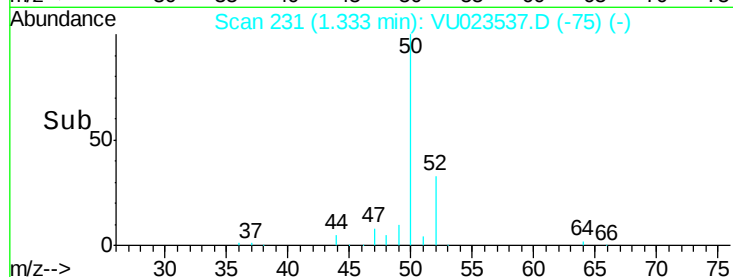
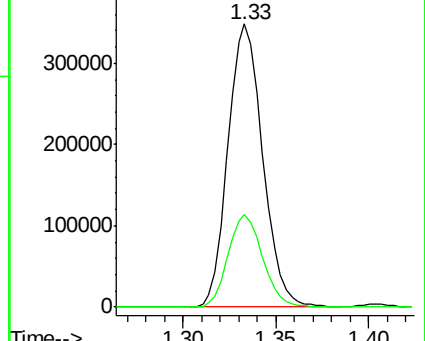
50 100

52 32.6 26.0 39.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0



#4

Vinyl Chloride

Concen: 47.17 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU023537.D

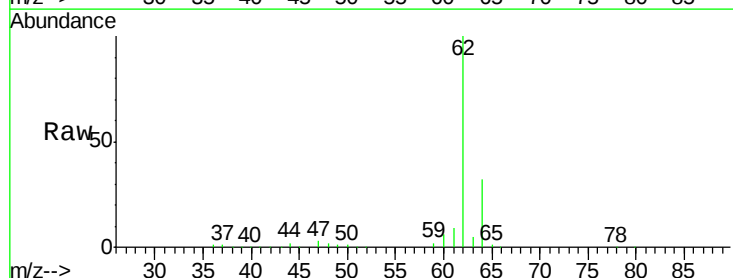
Acq: 30 Apr 2018 19:59

Tgt Ion: 62 Resp: 798539

Ion Ratio Lower Upper

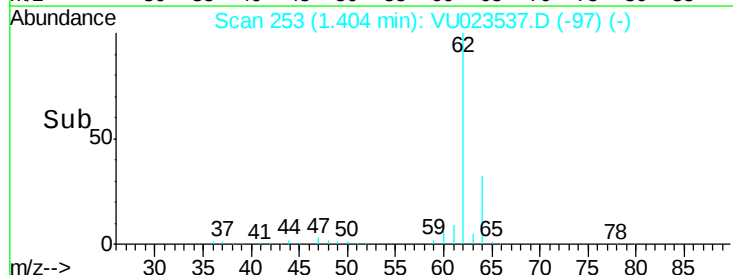
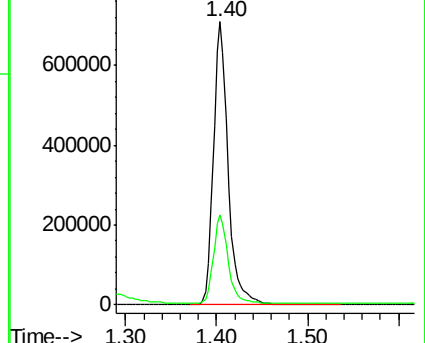
62 100

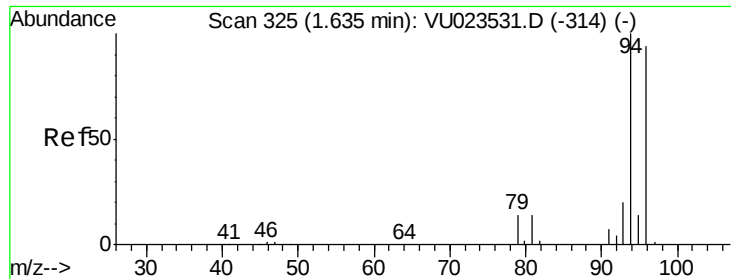
64 31.4 25.8 38.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#5

Bromomethane

Concen: 40.15 ug/l

RT: 1.63 min Scan# 324

Delta R.T. -0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

Instrument :

MSVOA_U

ClientSampleId :

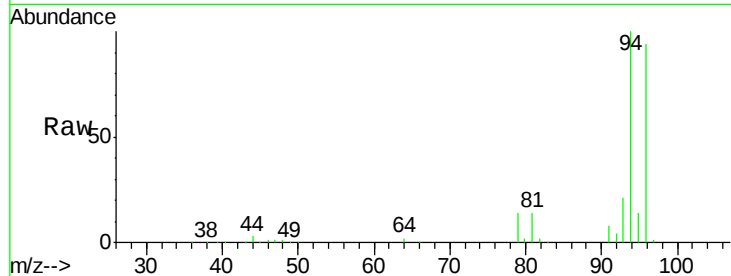
1220

Tot Ion: 94 Resp: 363389

Ion Ratio Lower Upper

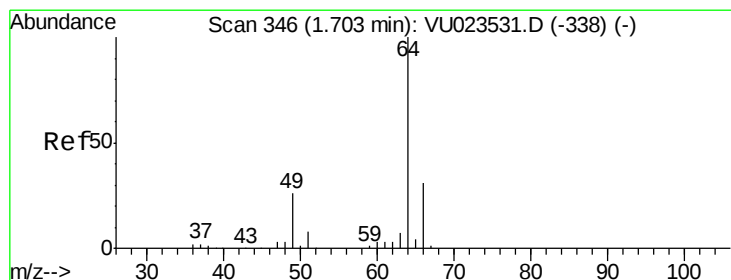
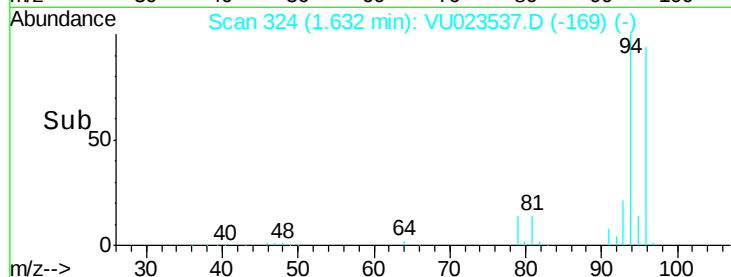
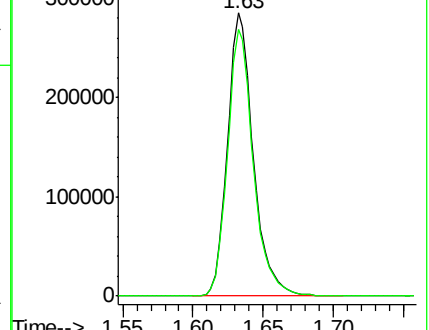
94 100

96 94.3 75.1 112.7



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0



#6

Chloroethane

Concen: 43.78 ug/l

RT: 1.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU023537.D

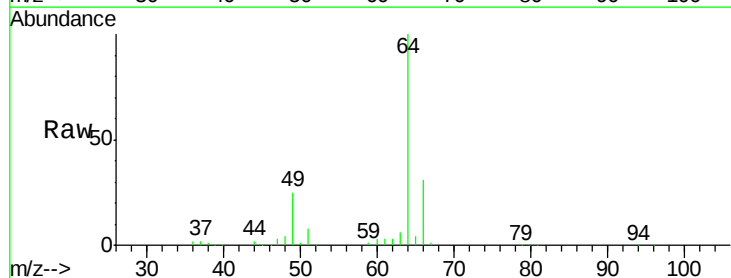
Acq: 30 Apr 2018 19:59

Tgt Ion: 64 Resp: 412579

Ion Ratio Lower Upper

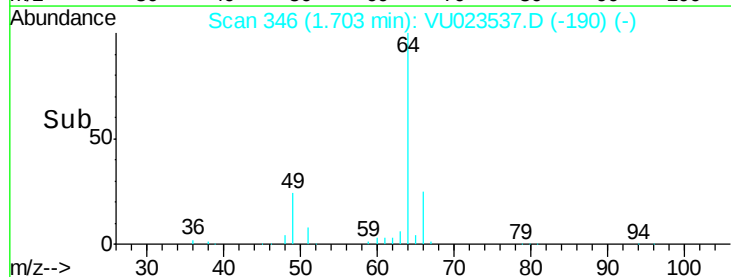
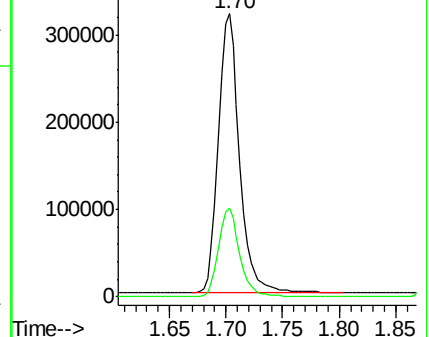
64 100

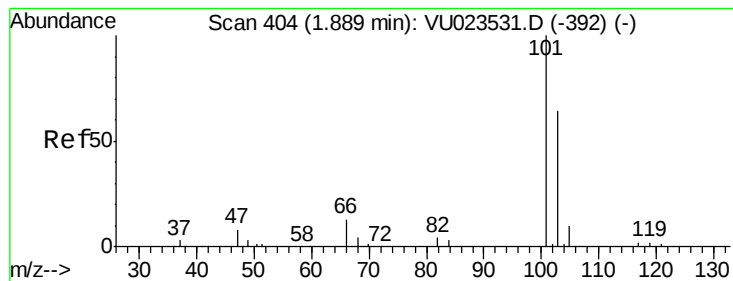
66 31.6 24.9 37.3



Abundance Ion 64.00 (63.70 to 64.70): VU0

Ion 66.00 (65.70 to 66.70): VU0



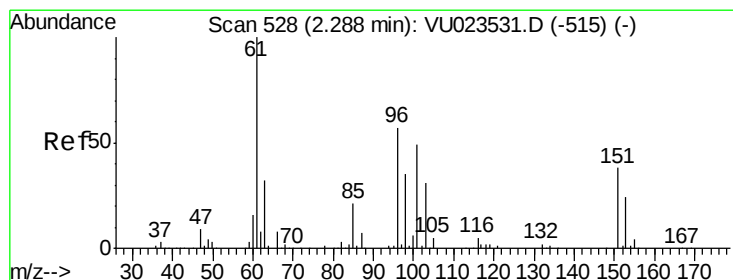
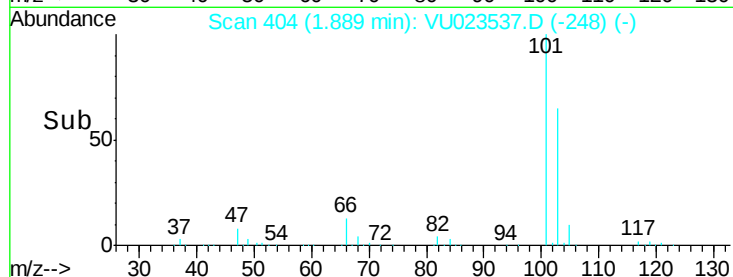
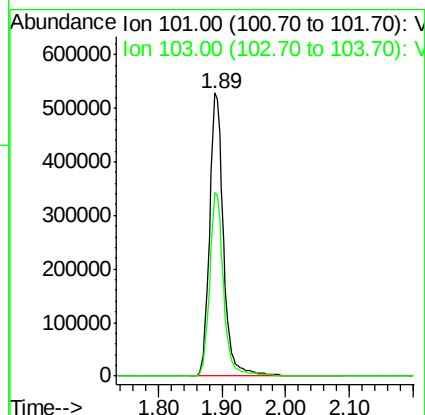
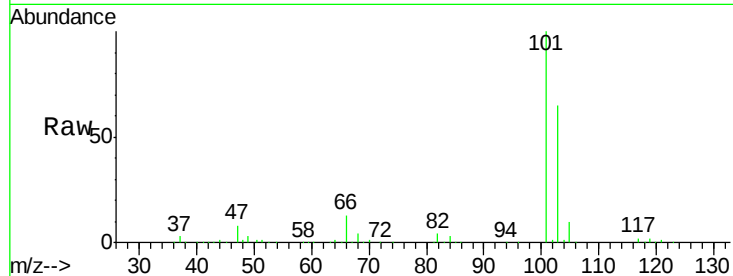


#7

Trichlorofluoromethane
 Concen: 41.12 ug/l
 RT: 1.89 min Scan# 404
 Delta R.T. 0.00 min
 Lab File: VU023537.D
 Acq: 30 Apr 2018 19:59

Instrument :
 MSVOA_U
 ClientSampled :
 1220

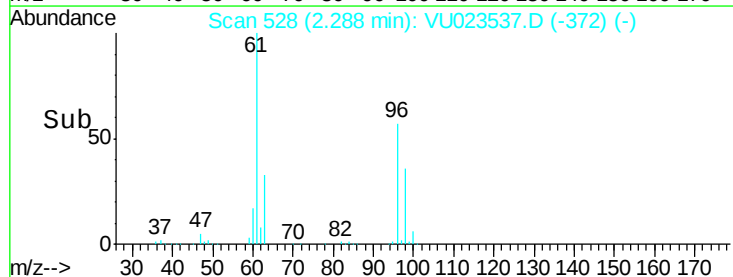
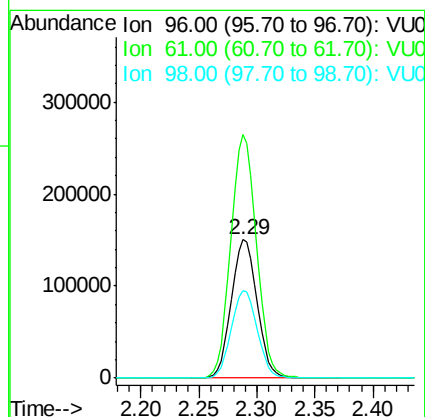
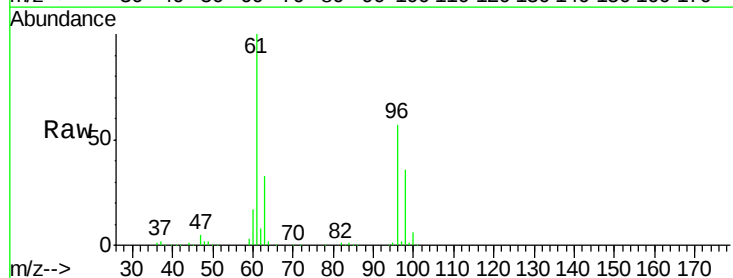
Tot Ion:101 Resp: 799117
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.4 77.0

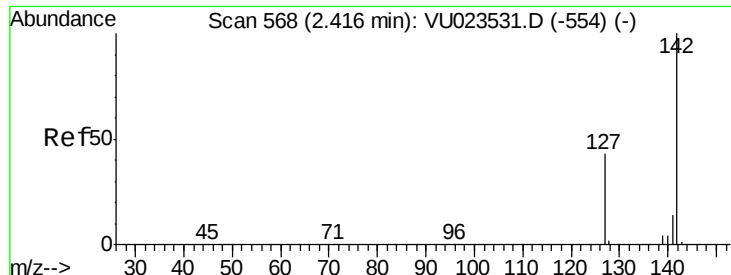


#9

1,1-Dichloroethene
 Concen: 20.72 ug/l
 RT: 2.29 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: VU023537.D
 Acq: 30 Apr 2018 19:59

Tgt Ion: 96 Resp: 229668
 Ion Ratio Lower Upper
 96 100
 61 175.8 0.0 526.5
 98 63.3 0.0 123.4





#10

Iodomethane

Concen: 1.16 ug/l

RT: 2.42 min Scan# 568

Delta R.T. 0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

Instrument :

MSVOA_U

ClientSampleId :

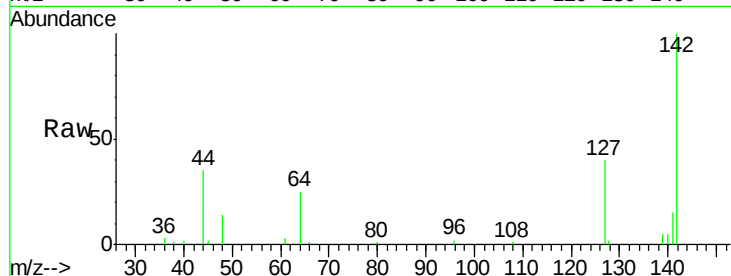
1220

Tot Ion:142 Resp: 15314

Ion Ratio Lower Upper

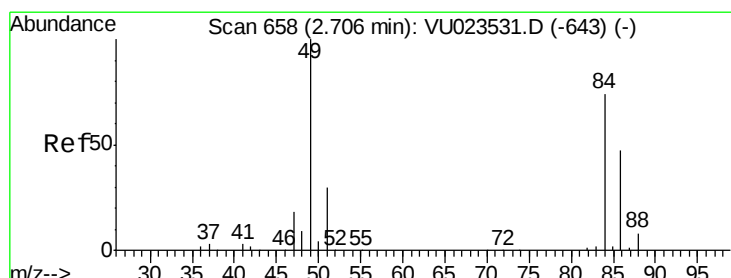
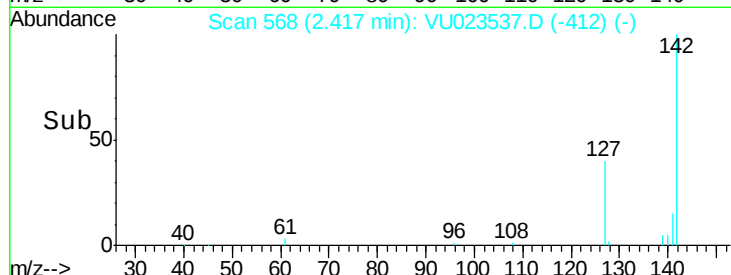
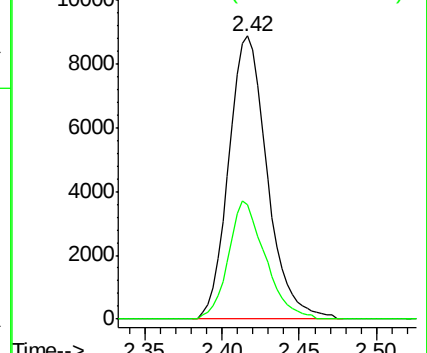
142 100

127 39.6 34.5 51.7



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V



#15

Methylene Chloride

Concen: 15.29 ug/l

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

Tgt Ion: 84 Resp: 193067

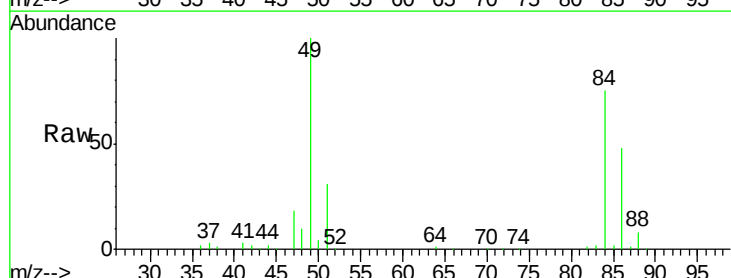
Ion Ratio Lower Upper

84 100

49 133.6 108.7 163.1

51 41.4 0.0 82.4

86 63.5 50.7 76.1

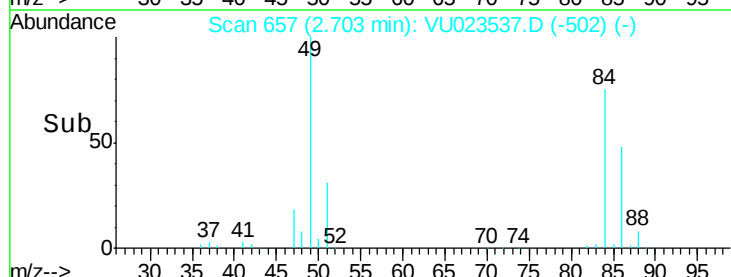
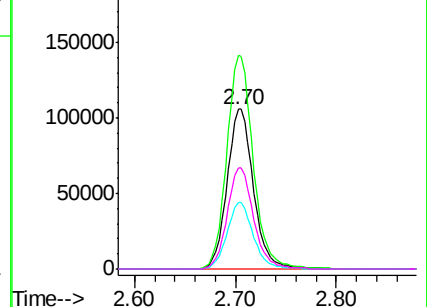


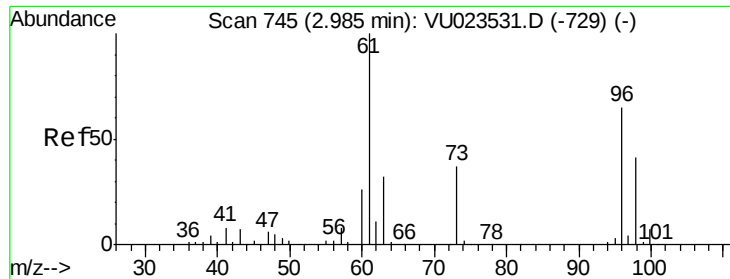
Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

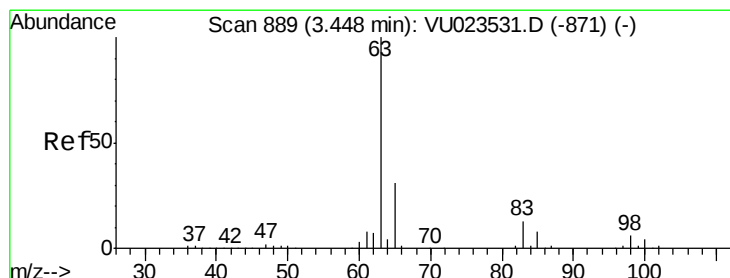
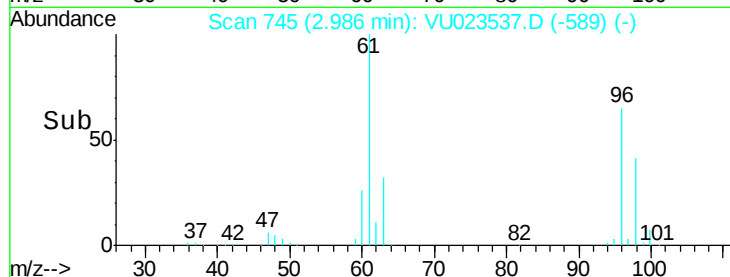
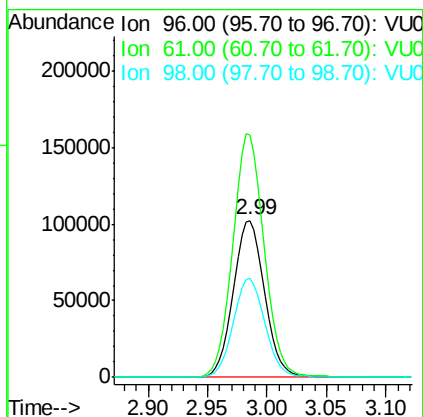
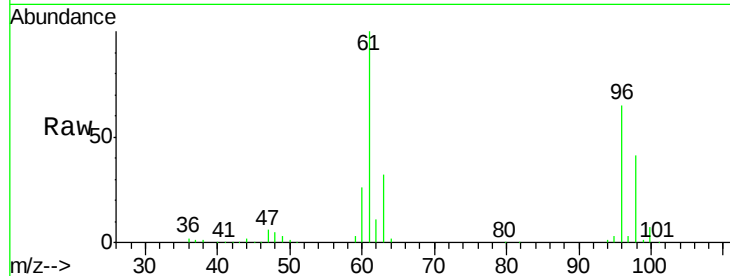




#16
trans-1,2-Dichloroethene
Concen: 15.77 ug/l
RT: 2.99 min Scan# 745
Delta R.T. 0.00 min
Lab File: VU023537.D
Acq: 30 Apr 2018 19:59

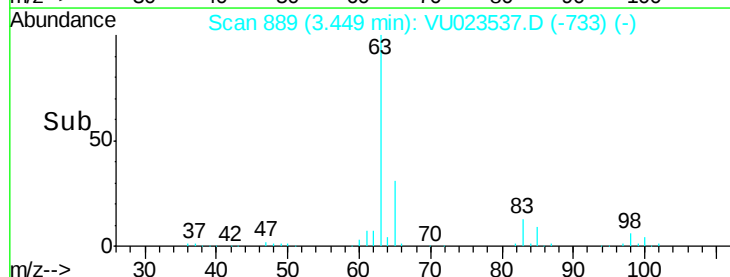
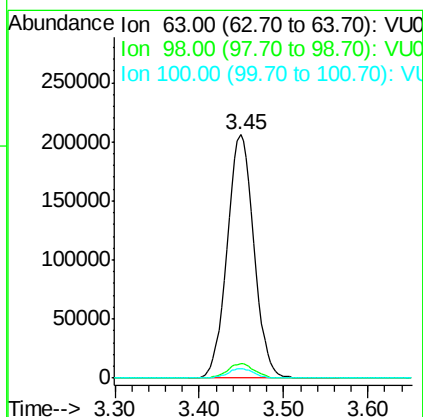
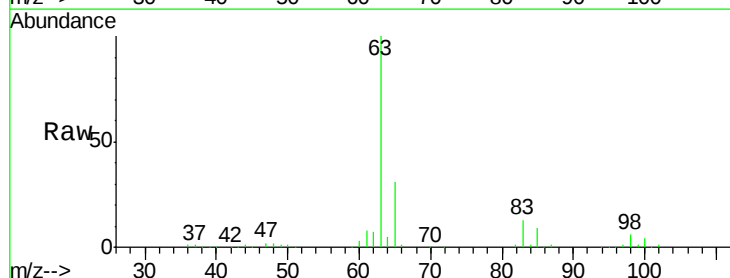
Instrument :
MSVOA_U
ClientSampleId :
1220

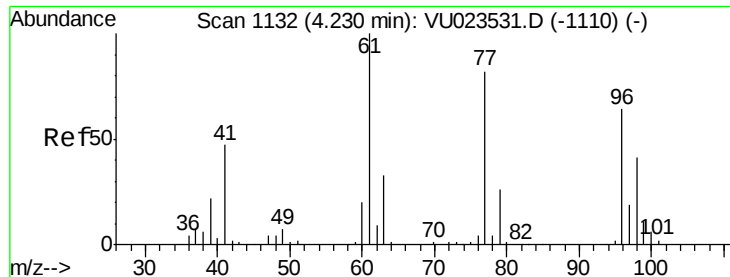
Tot Ion: 96 Resp: 187314
Ion Ratio Lower Upper
96 100
61 154.5 123.9 185.9
98 62.7 50.6 76.0



#17
1,1-Dichloroethane
Concen: 19.38 ug/l
RT: 3.45 min Scan# 889
Delta R.T. 0.00 min
Lab File: VU023537.D
Acq: 30 Apr 2018 19:59

Tgt Ion: 63 Resp: 453258
Ion Ratio Lower Upper
63 100
98 5.9 2.9 8.8
100 3.8 2.0 5.8

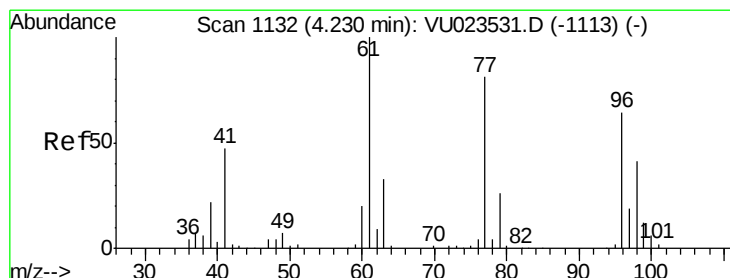
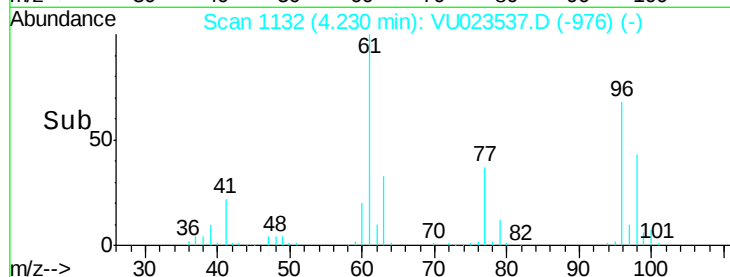
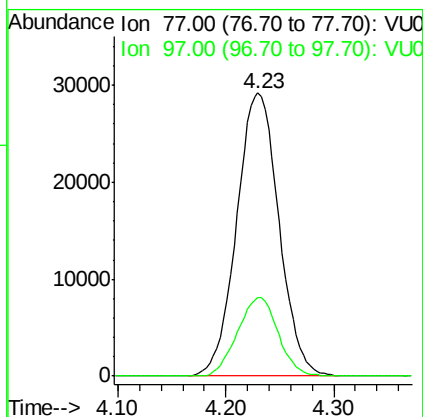
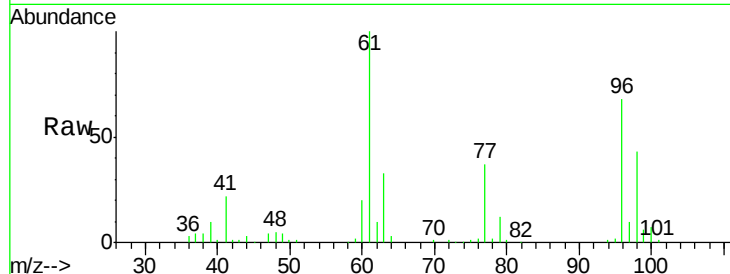




#21
 2,2-Dichloropropane
 Concen: 4.29 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU023537.D
 Acq: 30 Apr 2018 19:59

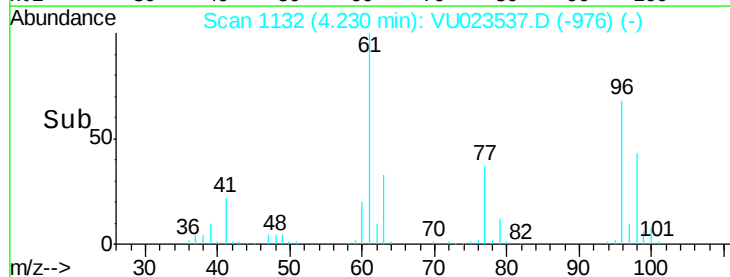
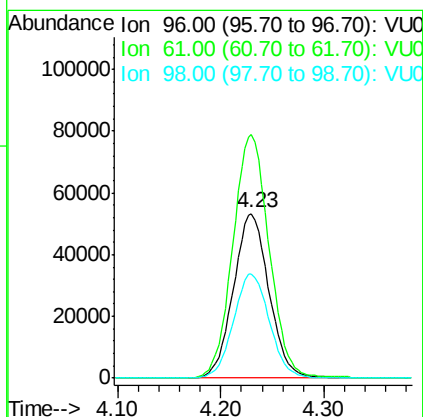
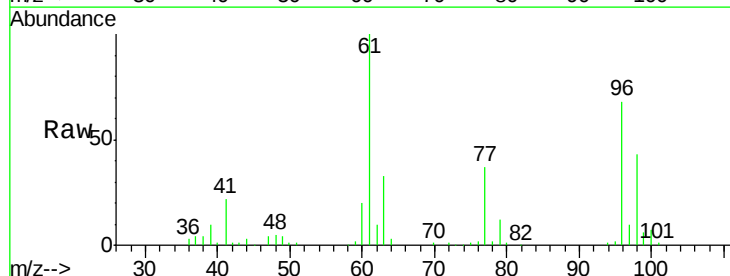
Instrument :
 MSVOA_U
 ClientSampleId :
 1220

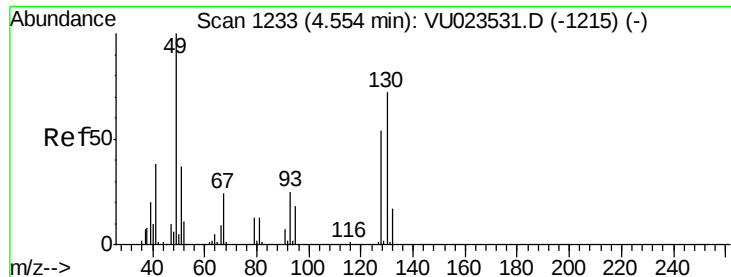
Tot Ion: 77 Resp: 79559
 Ion Ratio Lower Upper
 77 100
 97 26.7 17.9 26.9



#22
 cis-1,2-Dichloroethene
 Concen: 9.96 ug/l
 RT: 4.23 min Scan# 1132
 Delta R.T. 0.00 min
 Lab File: VU023537.D
 Acq: 30 Apr 2018 19:59

Tgt Ion: 96 Resp: 127946
 Ion Ratio Lower Upper
 96 100
 61 151.1 0.0 400.5
 98 64.2 32.2 96.6





#26

Bromochloromethane

Concen: 4.09 ug/l

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

Instrument :
MSVOA_U
ClientSampled :
1220

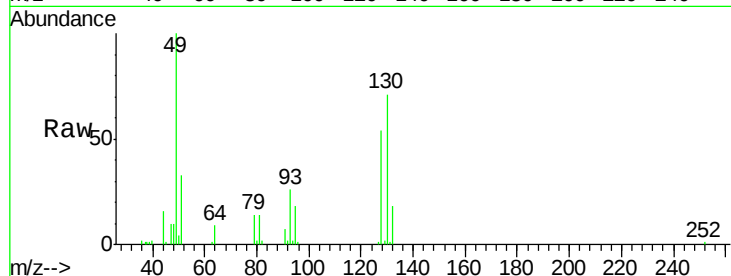
Tot Ion:128 Resp: 20787

Ion Ratio Lower Upper

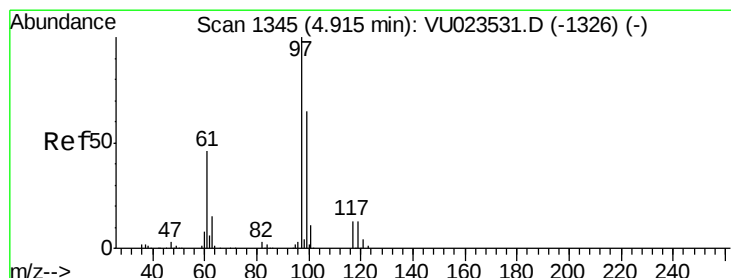
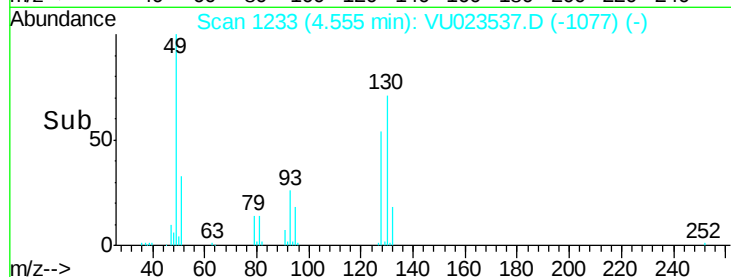
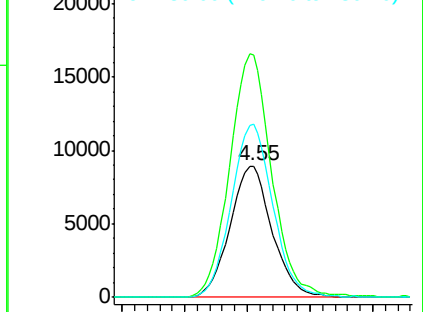
128 100

49 185.6 0.0 375.2

130 130.6 105.8 158.6



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VU
Ion 130.00 (129.70 to 130.70): V



#28

1,1,1-Trichloroethane

Concen: 12.35 ug/l

RT: 4.91 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

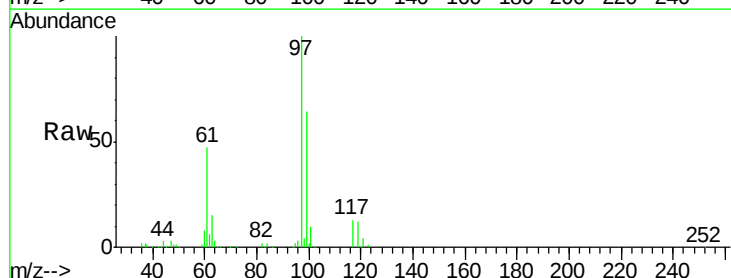
Tgt Ion: 97 Resp: 223261

Ion Ratio Lower Upper

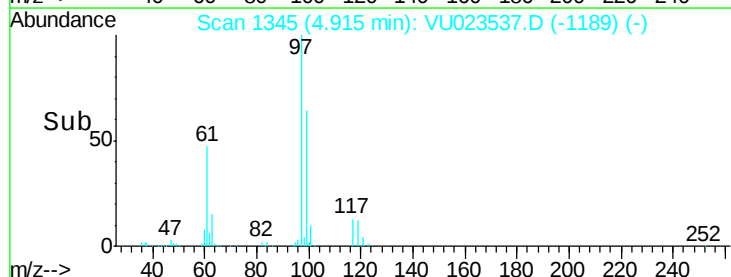
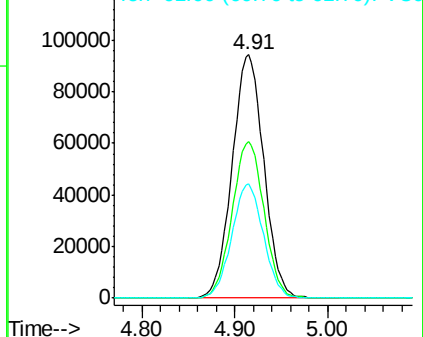
97 100

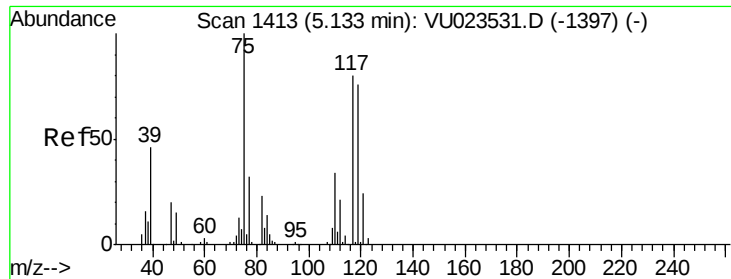
99 64.9 32.3 96.9

61 47.1 23.2 69.5



Abundance Ion 97.00 (96.70 to 97.70): VU
Ion 99.00 (98.70 to 99.70): VU
Ion 61.00 (60.70 to 61.70): VU





#29

1,1-Dichloropropene

Concen: 15.82 ug/l

RT: 5.13 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

Instrument :

MSVOA_U

ClientSampleId :

1220

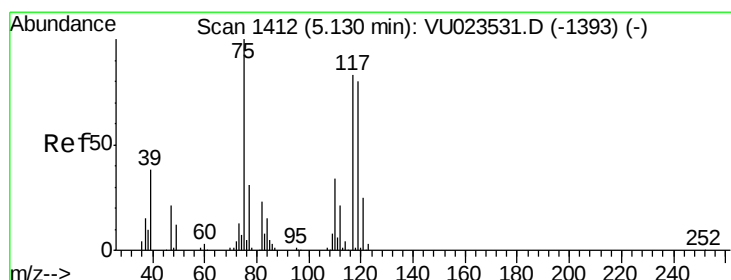
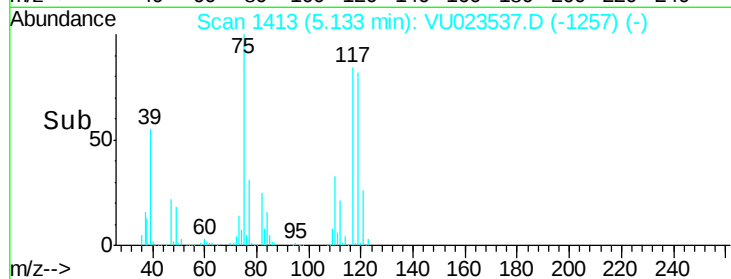
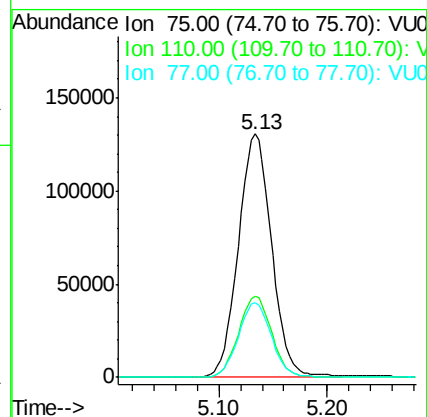
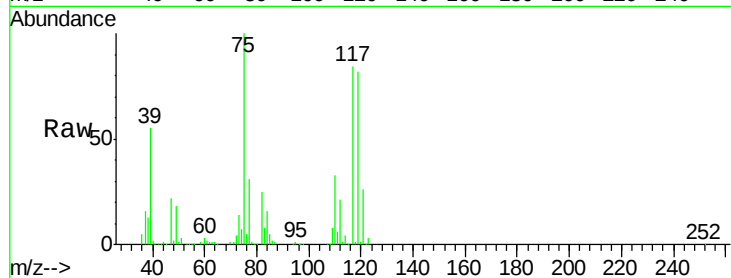
Tot Ion: 75 Resp: 280551

Ion Ratio Lower Upper

75 100

110 33.3 16.9 50.7

77 30.7 24.8 37.2



#30

Carbon Tetrachloride

Concen: 17.23 ug/l

RT: 5.13 min Scan# 1412

Delta R.T. 0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

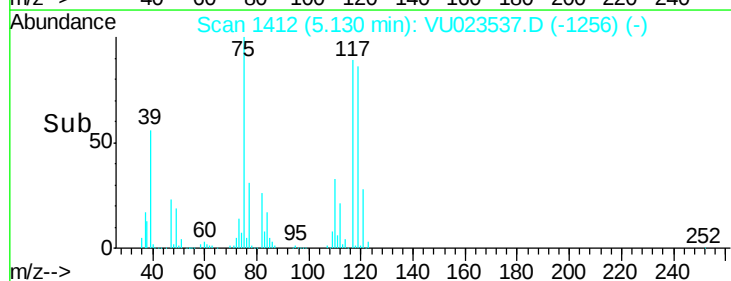
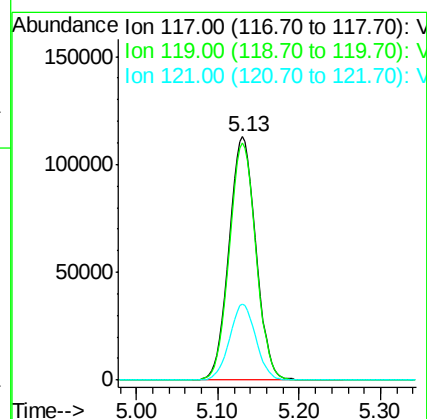
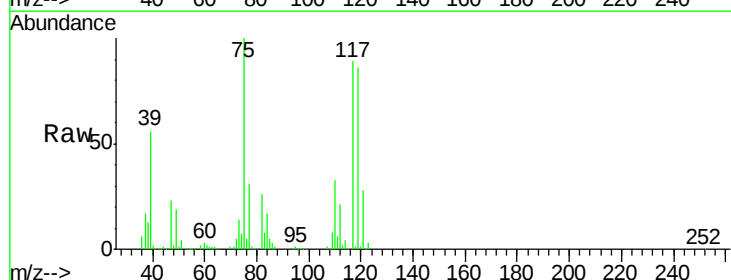
Tgt Ion: 117 Resp: 261919

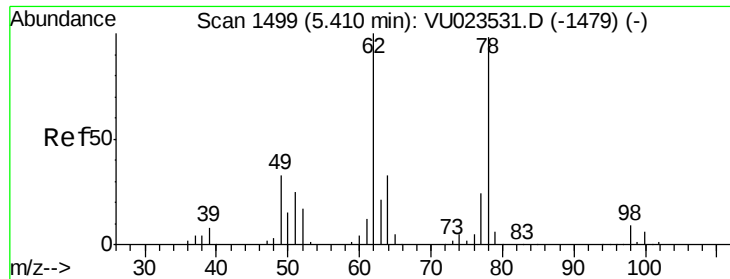
Ion Ratio Lower Upper

117 100

119 97.3 77.3 115.9

121 31.3 24.5 36.7

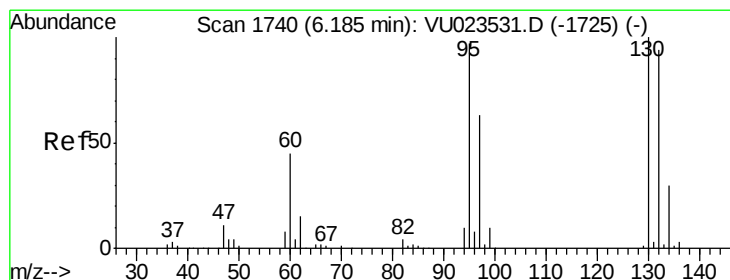
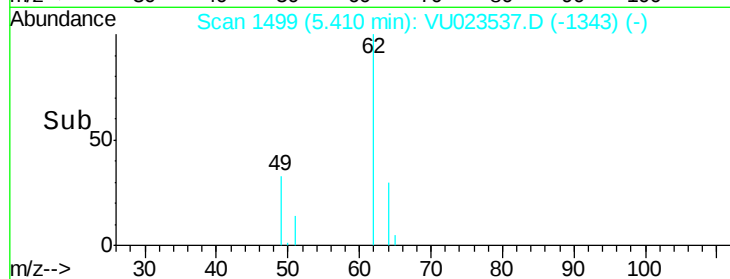
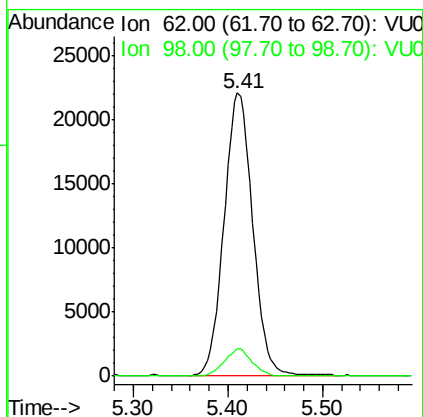
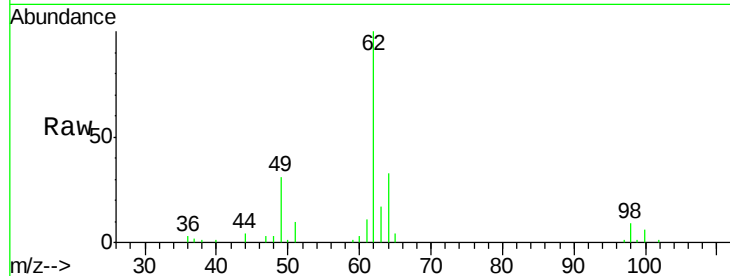




#36
 1,2-Dichloroethane
 Concen: 3.13 ug/l
 RT: 5.41 min Scan# 1499
 Delta R.T. 0.00 min
 Lab File: VU023537.D
 Acq: 30 Apr 2018 19:59

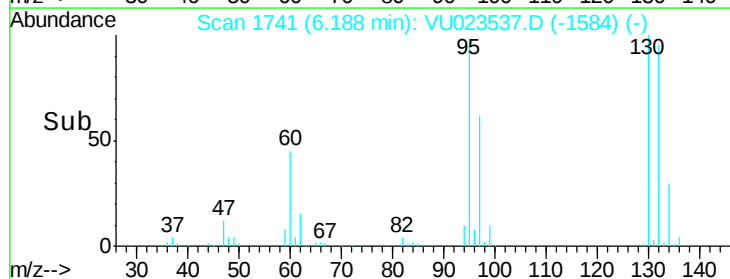
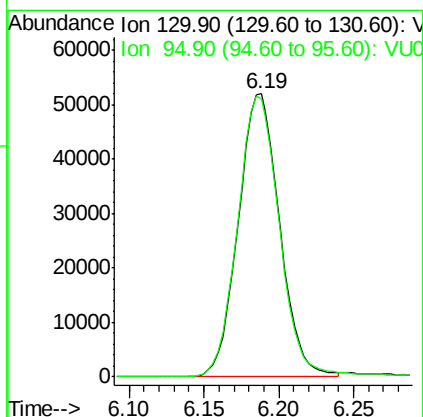
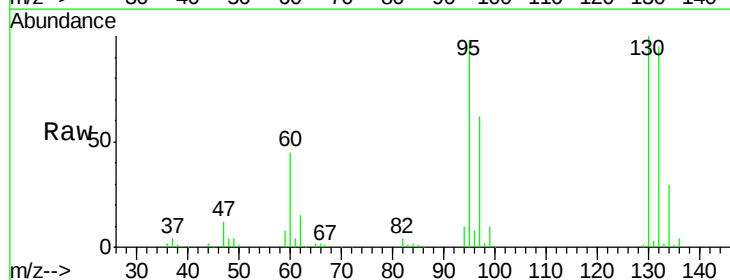
Instrument :
 MSVOA_U
 ClientSampleId :
 1220

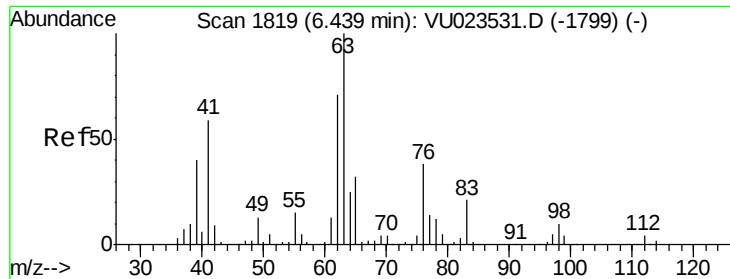
Tot Ion: 62 Resp: 46580
 Ion Ratio Lower Upper
 62 100
 98 9.2 7.2 10.8



#37
 Trichloroethene
 Concen: 7.06 ug/l
 RT: 6.19 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VU023537.D
 Acq: 30 Apr 2018 19:59

Tgt Ion:130 Resp: 99925
 Ion Ratio Lower Upper
 130 100
 95 98.5 77.9 116.9

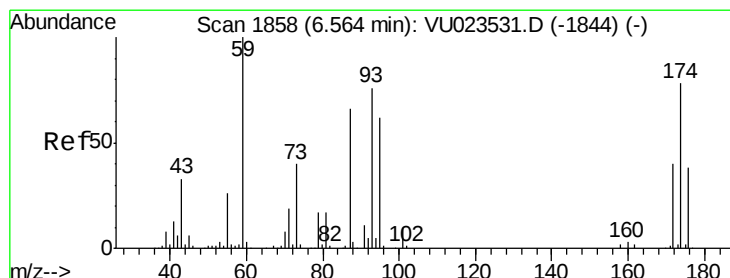
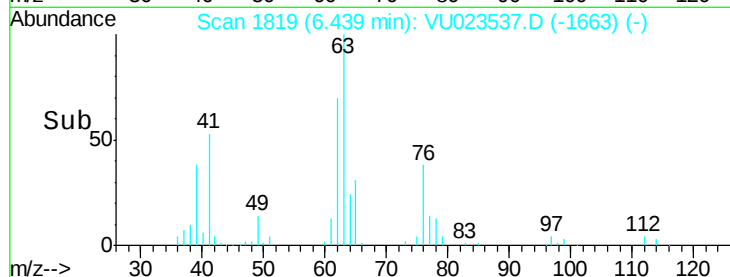
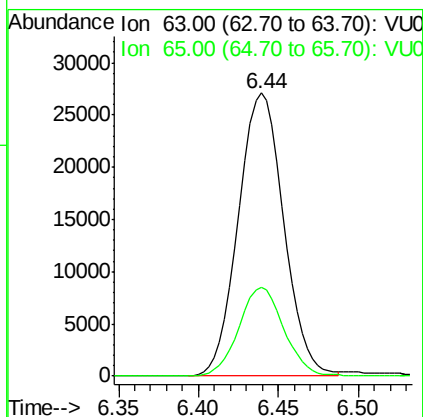
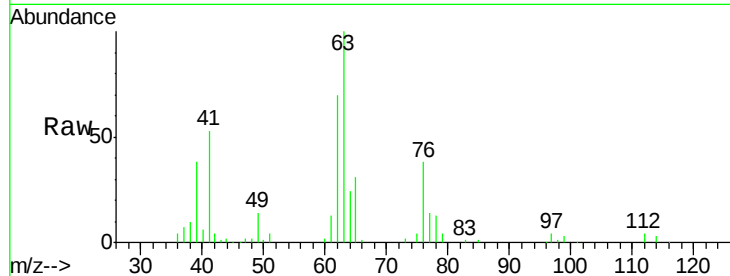




#38
 1,2-Dichloropropane
 Concen: 3.64 ug/l
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU023537.D
 Acq: 30 Apr 2018 19:59

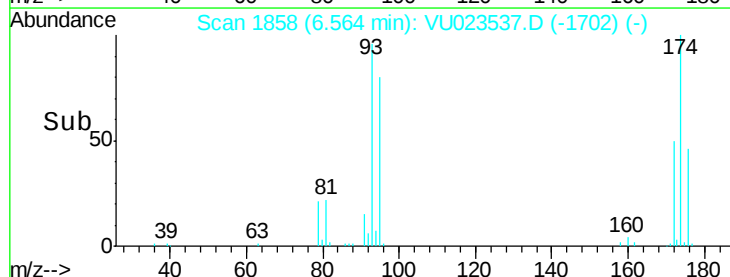
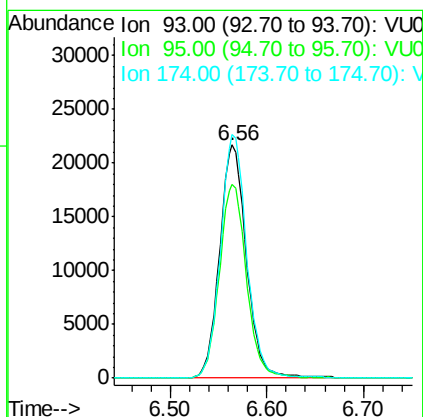
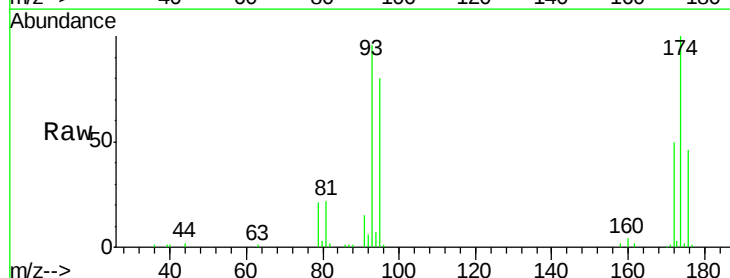
Instrument :
 MSVOA_U
 ClientSampled :
 1220

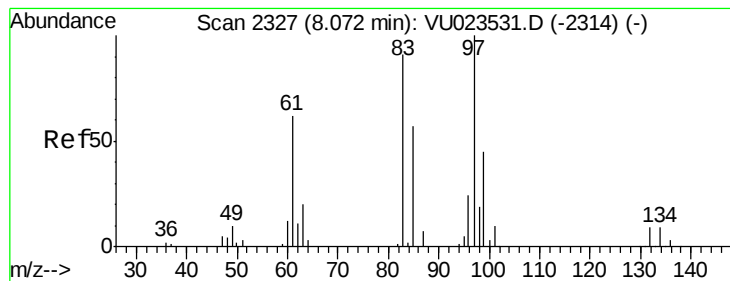
Tot Ion: 63 Resp: 52677
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.8 38.8



#43
 Dibromomethane
 Concen: 6.73 ug/l
 RT: 6.56 min Scan# 1858
 Delta R.T. 0.00 min
 Lab File: VU023537.D
 Acq: 30 Apr 2018 19:59

Tgt Ion: 93 Resp: 41858
 Ion Ratio Lower Upper
 93 100
 95 83.4 67.2 100.8
 174 101.4 82.8 124.2





#52

1,1,2-Trichloroethane

Concen: 19.08 ug/l

RT: 8.07 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

Instrument :

MSVOA_U

ClientSampleId :

1220

Tot Ion: 97 Resp: 168792

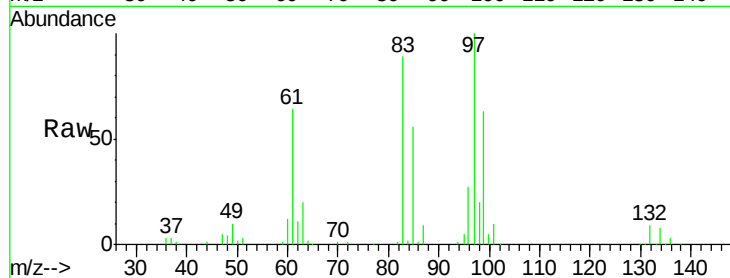
Ion Ratio Lower Upper

97 100

83 88.8 72.6 109.0

85 55.9 47.2 70.8

99 62.8 50.8 76.2

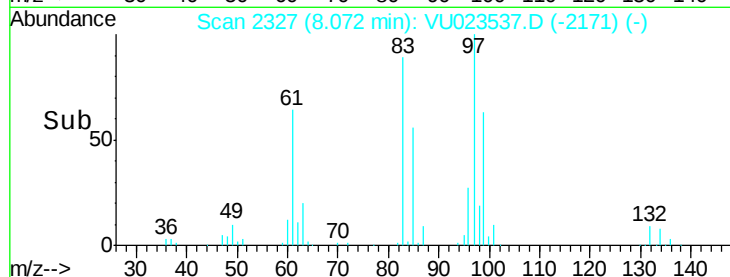


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 82.95 (82.65 to 83.65): VU0

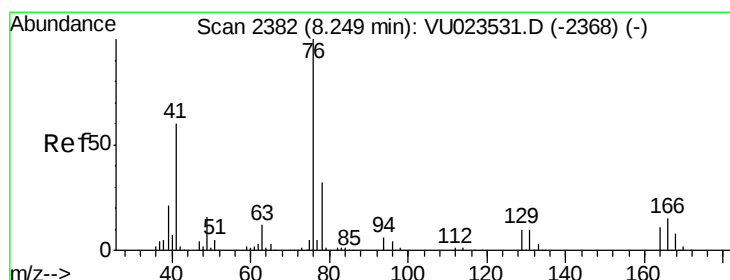
Ion 84.95 (84.65 to 85.65): VU0

Ion 98.95 (98.65 to 99.65): VU0



Time-->

8.07



#53

1,3-Dichloropropane

Concen: 4.37 ug/l

RT: 8.25 min Scan# 2382

Delta R.T. 0.00 min

Lab File: VU023537.D

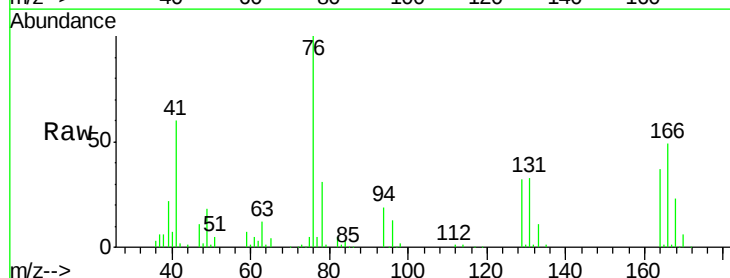
Acq: 30 Apr 2018 19:59

Tgt Ion: 76 Resp: 68743

Ion Ratio Lower Upper

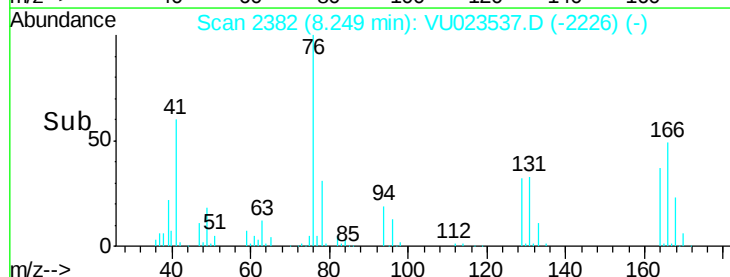
76 100

78 31.0 25.7 38.5



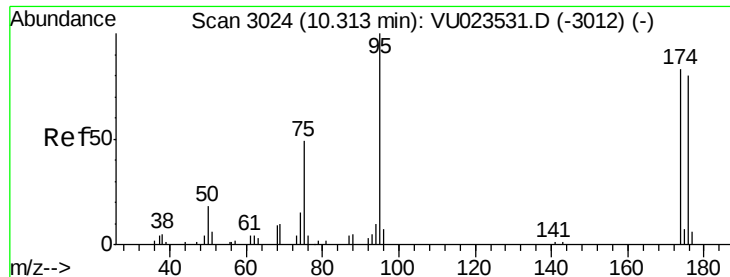
Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0



Time-->

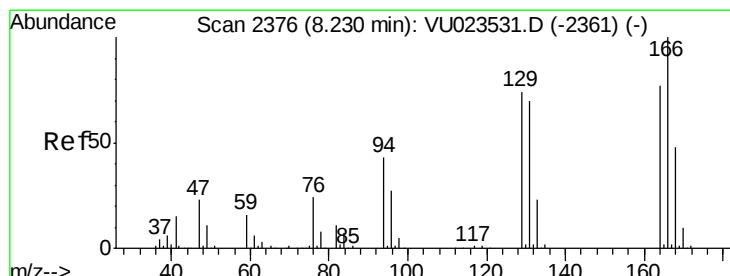
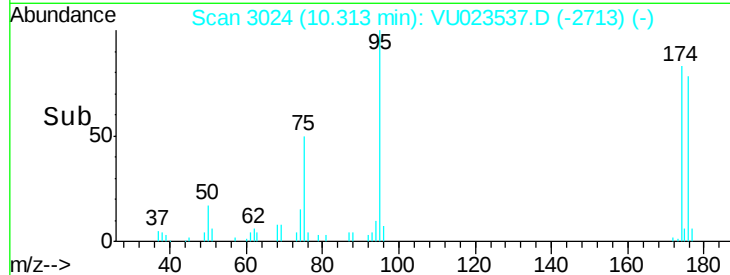
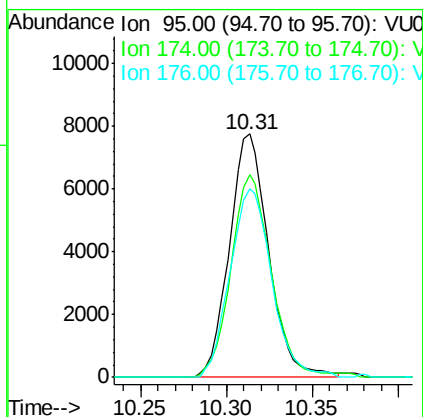
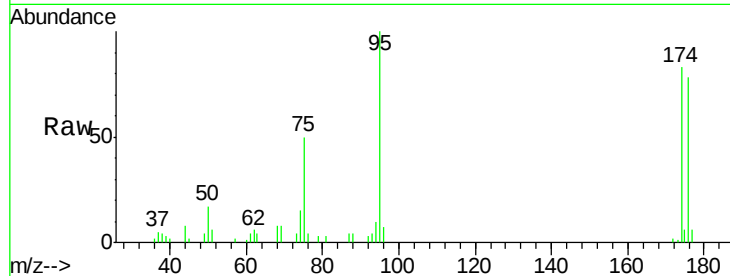
8.25



#57
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU023537.D
Acq: 30 Apr 2018 19:59

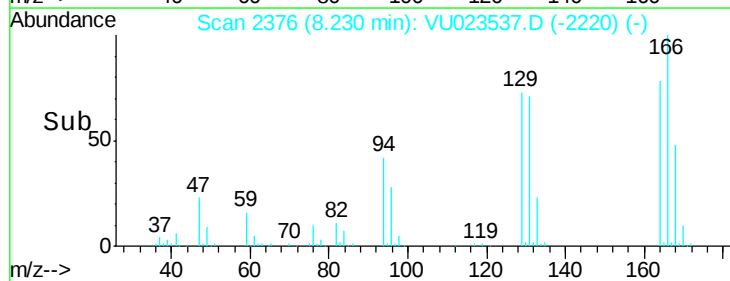
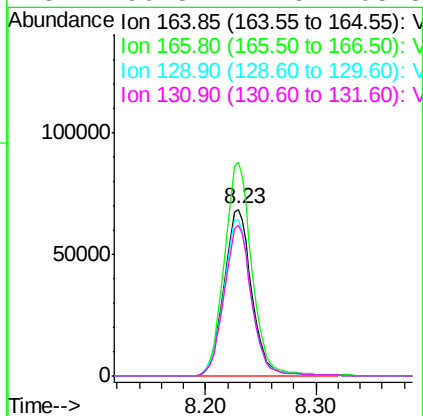
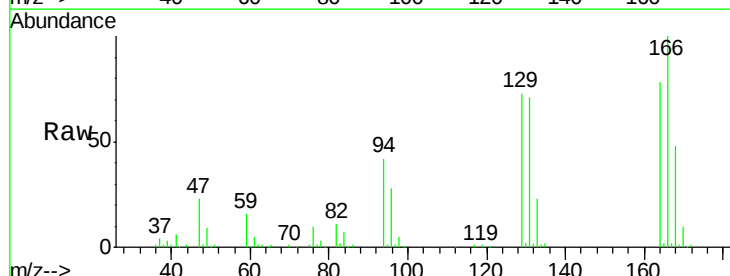
Instrument :
MSVOA_U
ClientSampleId :
1220

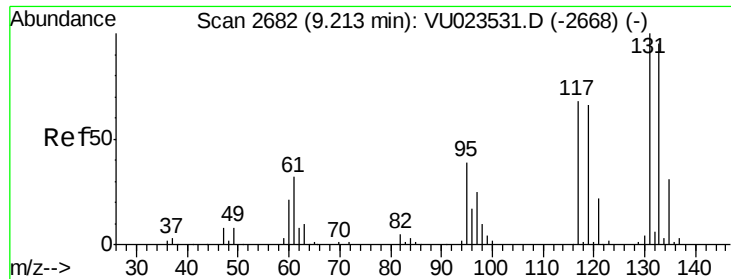
Tot Ion: 95 Resp: 12372
Ion Ratio Lower Upper
95 100
174 85.8 65.6 98.4
176 82.1 62.0 93.0



#58
Tetrachloroethene
Concen: 9.27 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. 0.00 min
Lab File: VU023537.D
Acq: 30 Apr 2018 19:59

Tgt Ion: 164 Resp: 119575
Ion Ratio Lower Upper
164 100
166 128.3 104.1 156.1
129 94.1 76.8 115.2
131 90.8 72.6 108.8





#60

1,1,1,2-Tetrachloroethane

Concen: 18.11 ug/l

RT: 9.21 min Scan# 2682

Delta R.T. 0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

Instrument :

MSVOA_U

ClientSampleId :

1220

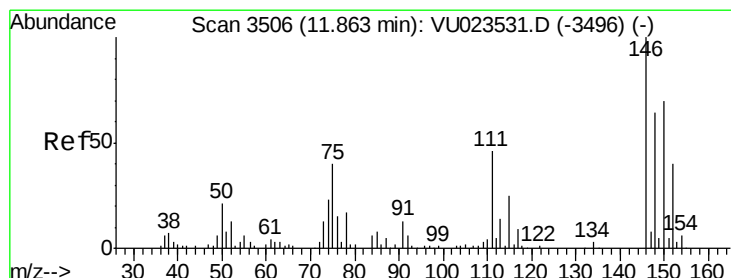
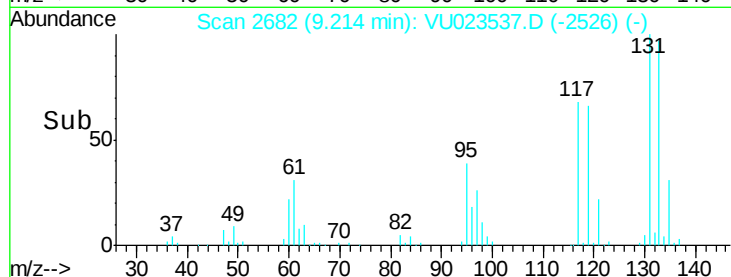
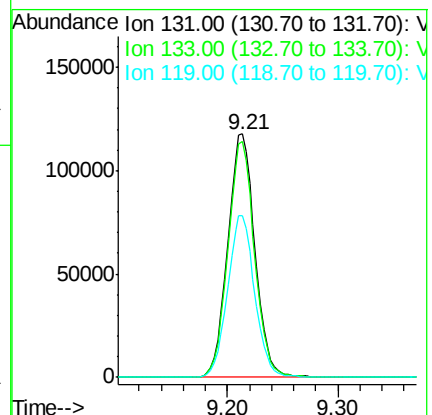
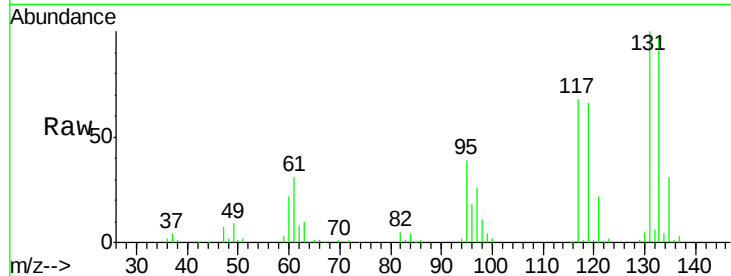
Tot Ion:131 Resp: 200402

Ion Ratio Lower Upper

131 100

133 95.3 75.8 113.8

119 66.3 53.0 79.6



#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.87 min Scan# 3507

Delta R.T. 0.00 min

Lab File: VU023537.D

Acq: 30 Apr 2018 19:59

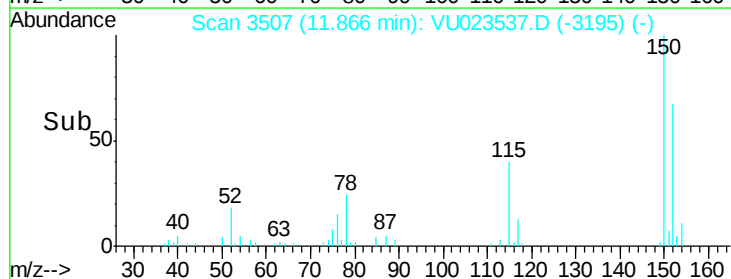
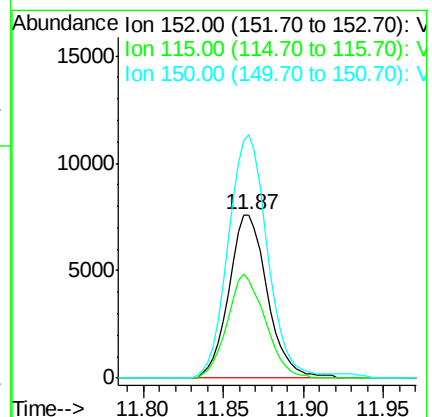
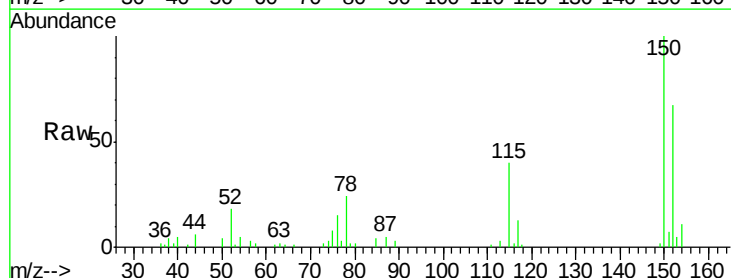
Tgt Ion:152 Resp: 12494

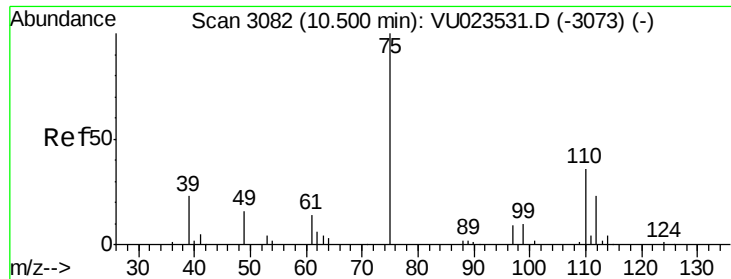
Ion Ratio Lower Upper

152 100

115 62.6 0.0 118.8

150 152.1 0.0 0.0#





#71
 1,2,3-Trichloropropane
 Concen: 16.04 ug/l
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU023537.D
 Acq: 30 Apr 2018 19:59

Instrument :
 MSVOA_U
 ClientSampleId :
 1220

Tot Ion: 75 Resp: 114447
 Ion Ratio Lower Upper
 75 100
 77 31.9 0.0 0.0#
 110 34.5 0.0 74.0
 97 19.1 0.0 39.6

