

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102318\
 Data File : VU027761.D
 Acq On : 23 Oct 2018 13:33
 Operator : MD/SY
 Sample : J5026-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 1720

Quant Time: Oct 24 05:49:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U0102318DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Oct 23 09:12:15 2018
 Response via : Initial Calibration

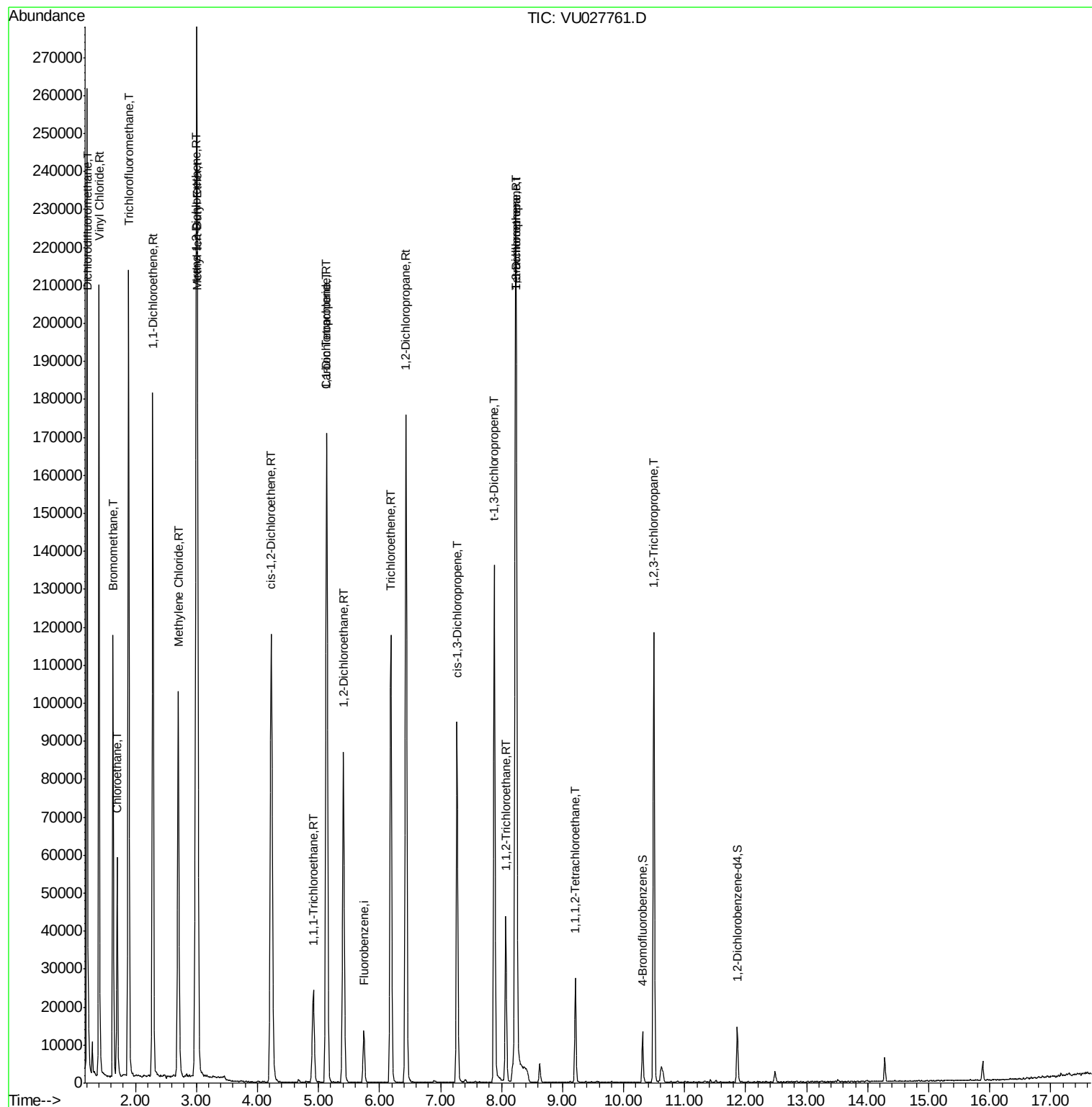
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	12625	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	4677	0.98	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	3987	0.88	ug/l	0.00
Spiked Amount 1.000			Recovery	=	88.00%	
Target Compounds						Ovalue
2) Dichlorodifluoromethane	1.21	85	157917	31.501	ug/l	100
4) Vinyl Chloride	1.40	62	136284	27.237	ug/l	96
5) Bromomethane	1.63	94	48386	18.383	ug/l	100
6) Chloroethane	1.70	64	34499	12.716	ug/l	96
7) Trichlorofluoromethane	1.89	101	133433	21.882	ug/l	99
9) 1,1-Dichloroethene	2.29	96	51456	18.274	ug/l	99
15) Methylene Chloride	2.70	84	40648	11.455	ug/l	99
16) trans-1,2-Dichloroethene	2.98	96	10050	3.206	ug/l	95
22) cis-1,2-Dichloroethene	4.23	96	60238	16.052	ug/l	87
25) Methyl tert-Butyl Ether	3.01	73	302561	33.745	ug/l	100
28) 1,1,1-Trichloroethane	4.92	97	18672	3.114	ug/l	97
29) 1,1-Dichloropropene	5.13	75	77083	14.722	ug/l	99
30) Carbon Tetrachloride	5.13	117	20416	3.811	ug/l	96
36) 1,2-Dichloroethane	5.41	62	78556	16.132	ug/l	99
37) Trichloroethene	6.19	130	38309	10.613	ug/l	93
38) 1,2-Dichloropropane	6.43	63	67497	16.427	ug/l	99
50) t-1,3-Dichloropropene	7.88	75	72624	14.371	ug/l	98
51) cis-1,3-Dichloropropene	7.27	75	51683	8.681	ug/l	98
52) 1,1,2-Trichloroethane	8.07	97	12968	5.139	ug/l	96
53) 1,3-Dichloropropane	8.24	76	65514	13.515	ug/l	100
58) Tetrachloroethene	8.23	164	38316	11.254	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.21	131	7619	2.253	ug/l	95
71) 1,2,3-Trichloropropane	10.49	75	48777	18.716	ug/l #	99
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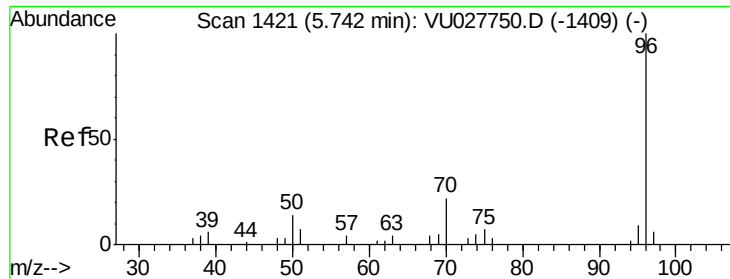
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1421

Delta R.T. 0.00 min

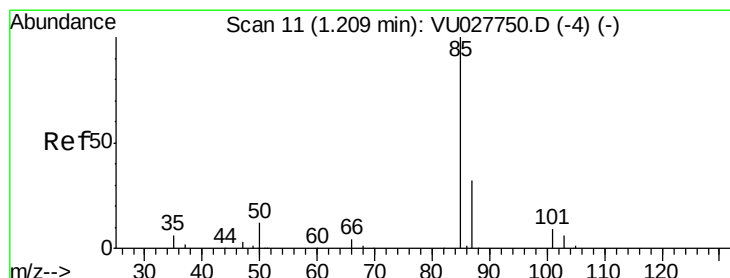
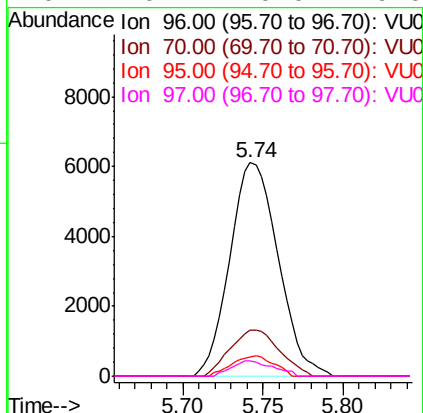
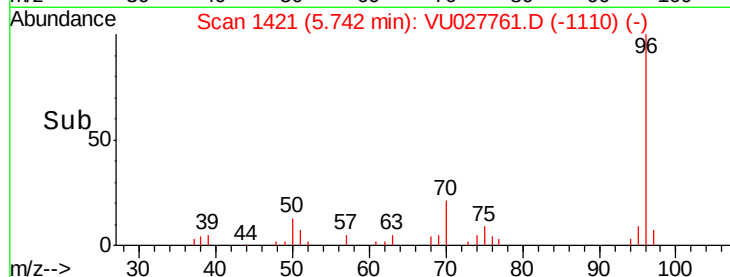
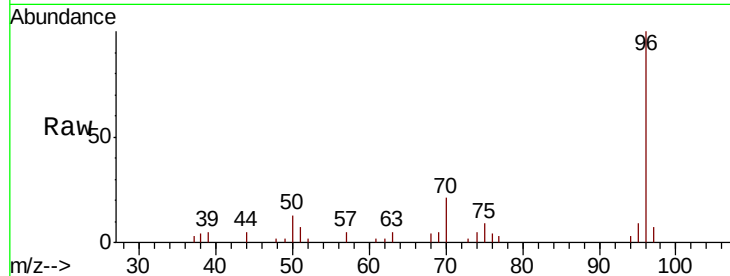
Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :
MSVOA_U
ClientSampleId :
1720

Tot Ion: 96 Resp: 12625

Ion	Ratio	Lower	Upper
96	100		
70	22.0	17.7	26.5
95	8.2	7.0	10.6
97	6.1	0.0	0.0#



#2

Dichlorodifluoromethane

Concen: 31.501 ug/l

RT: 1.21 min Scan# 10

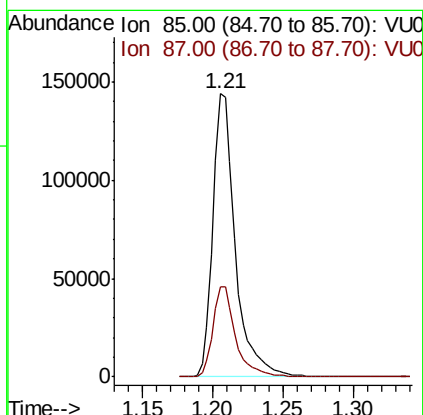
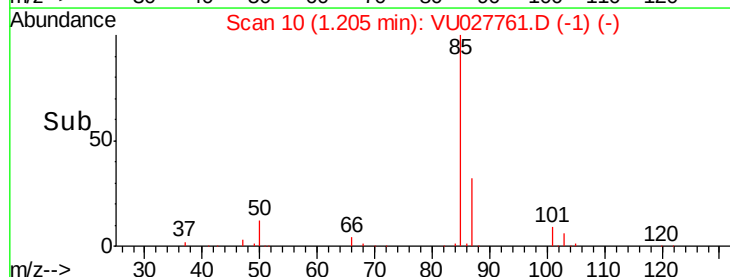
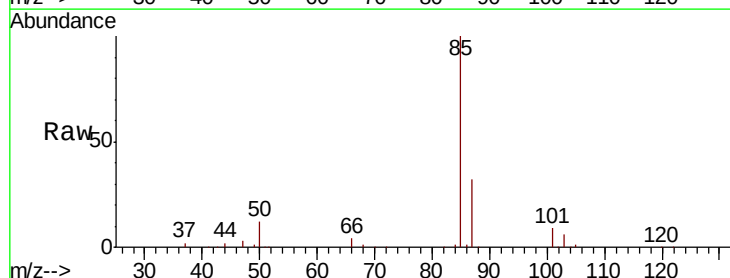
Delta R.T. -0.00 min

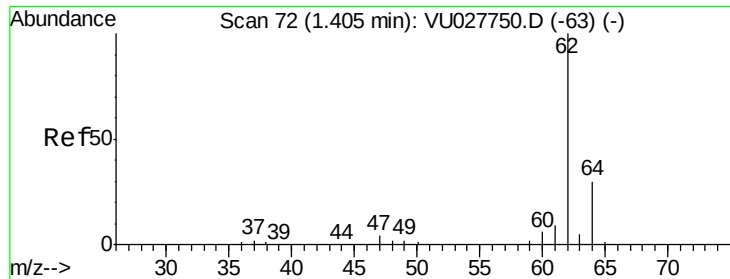
Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Tgt Ion: 85 Resp: 157917

Ion	Ratio	Lower	Upper
85	100		
87	31.8	15.9	47.6





#4

Vinyl Chloride

Concen: 27.237 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :

MSVOA_U

ClientSampled :

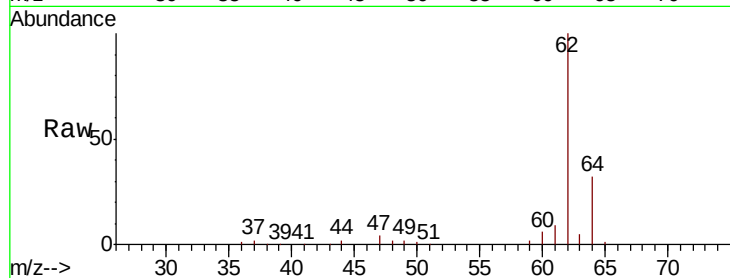
1720

Tot Ion: 62 Resp: 136284

Ion Ratio Lower Upper

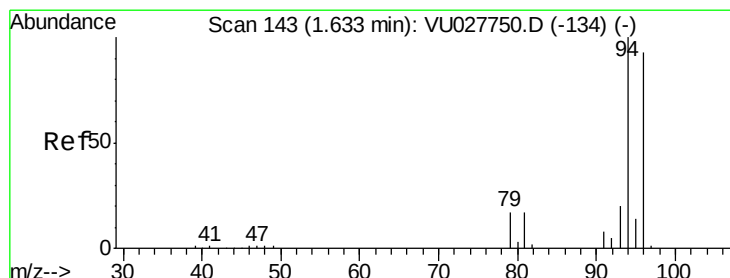
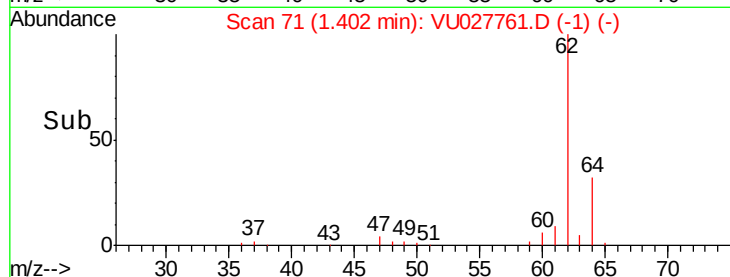
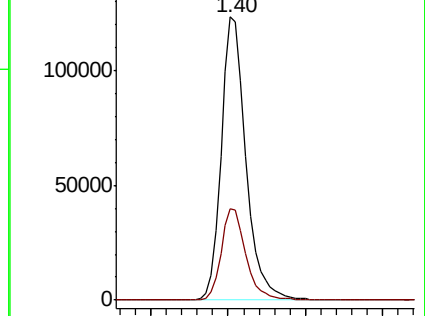
62 100

64 32.5 24.3 36.5



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#5

Bromomethane

Concen: 18.383 ug/l

RT: 1.63 min Scan# 143

Delta R.T. 0.00 min

Lab File: VU027761.D

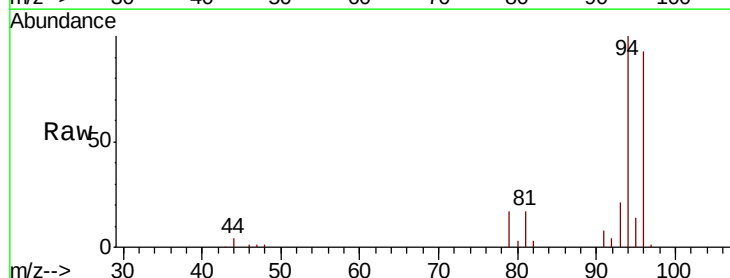
Acq: 23 Oct 2018 13:33

Tgt Ion: 94 Resp: 48386

Ion Ratio Lower Upper

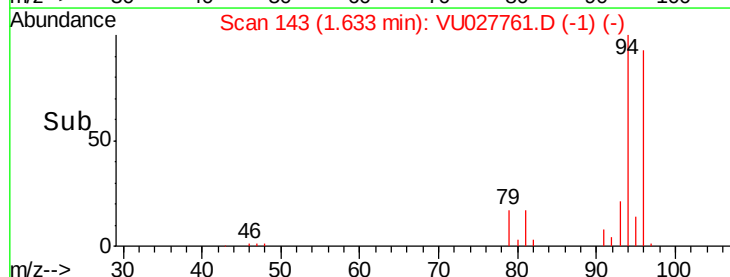
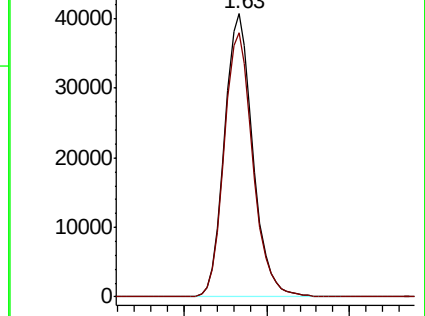
94 100

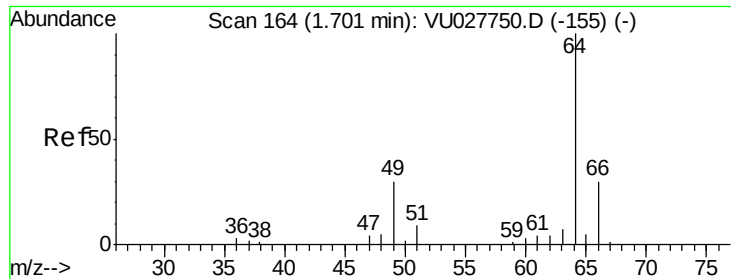
96 93.1 74.2 111.4



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#6

Chloroethane

Concen: 12.716 ug/l

RT: 1.70 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

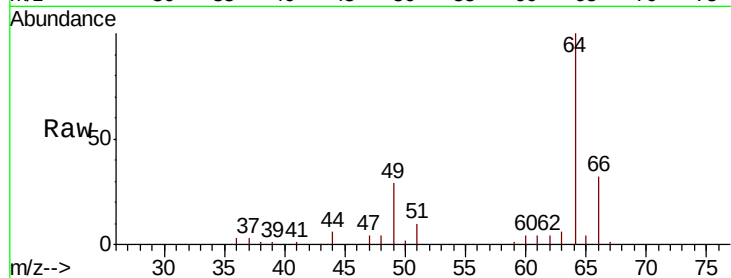
1720

Tot Ion: 64 Resp: 34499

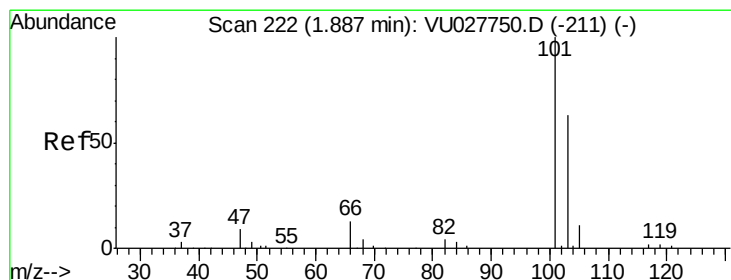
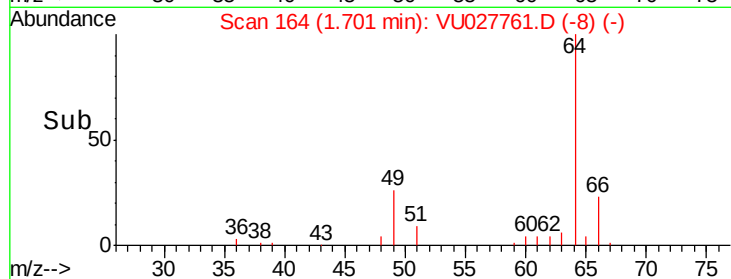
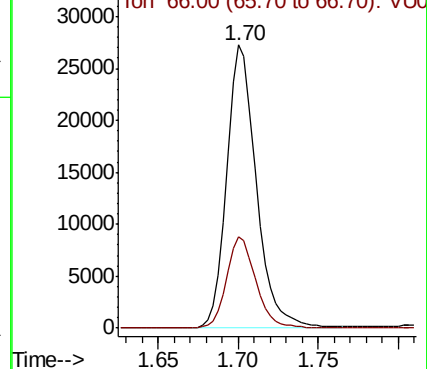
Ion Ratio Lower Upper

64 100

66 32.5 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VU027761.D (-8) (-)



#7

Trichlorofluoromethane

Concen: 21.882 ug/l

RT: 1.89 min Scan# 222

Delta R.T. 0.00 min

Lab File: VU027761.D

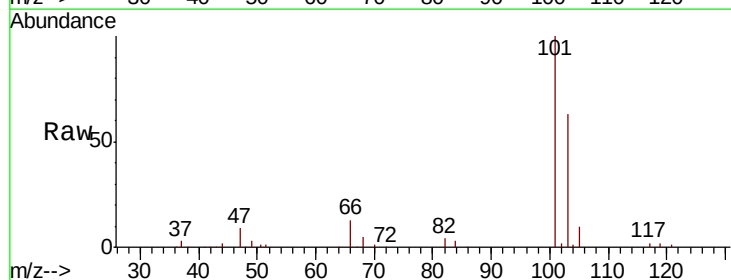
Acq: 23 Oct 2018 13:33

Tgt Ion: 101 Resp: 133433

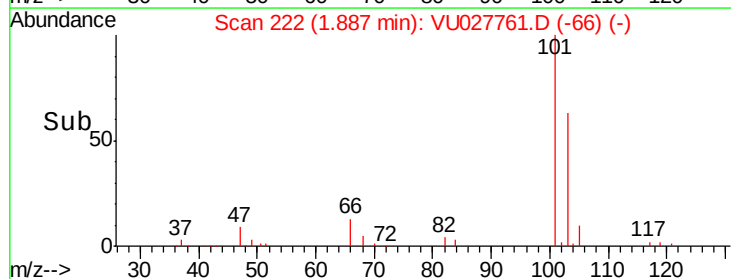
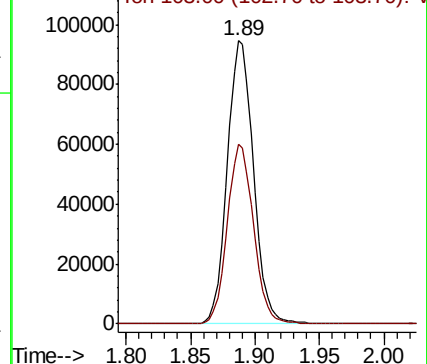
Ion Ratio Lower Upper

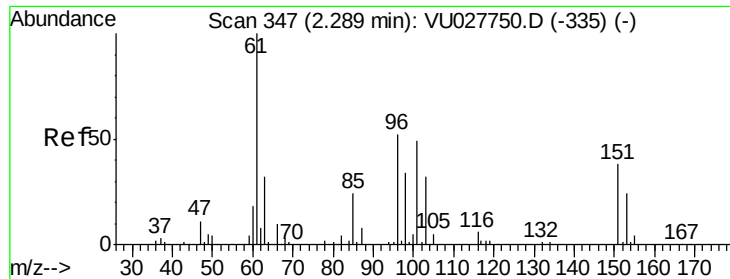
101 100

103 63.5 50.2 75.2



Abundance Ion 101.00 (100.70 to 101.70): VU027761.D (-66) (-)





#9

1,1-Dichloroethene

Concen: 18.274 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

1720

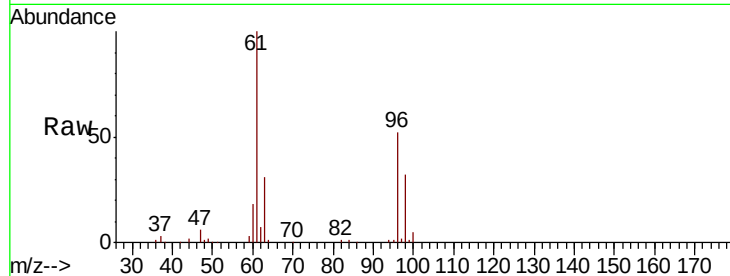
Tot Ion: 96 Resp: 51456

Ion Ratio Lower Upper

96 100

61 193.2 0.0 581.4

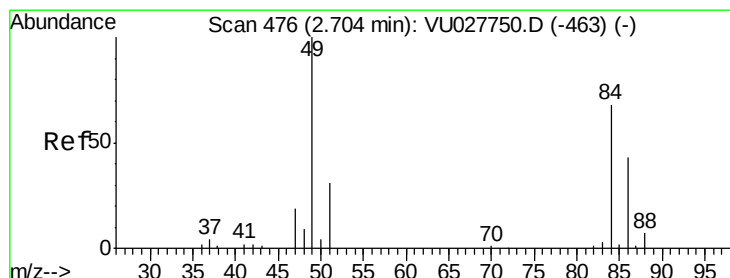
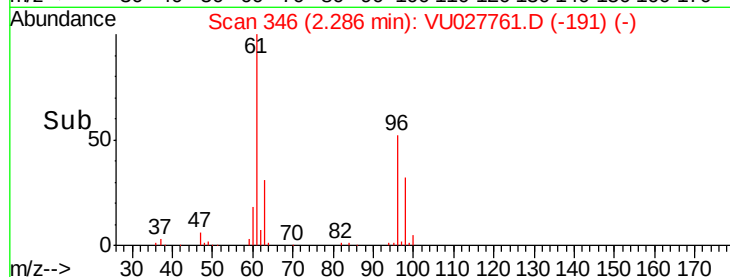
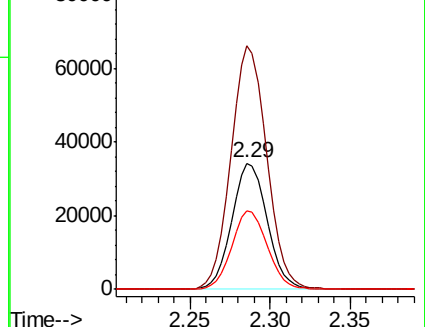
98 62.1 0.0 131.2



Abundance Ion 96.00 (95.70 to 96.70): VU027750.D (-335) (-)

Ion 61.00 (60.70 to 61.70): VU027750.D (-335) (-)

Ion 98.00 (97.70 to 98.70): VU027750.D (-335) (-)



#15

Methylene Chloride

Concen: 11.455 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Tgt Ion: 84 Resp: 40648

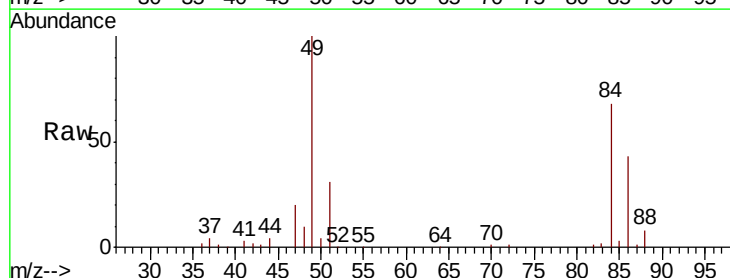
Ion Ratio Lower Upper

84 100

49 146.3 118.5 177.7

51 45.2 0.0 91.0

86 62.9 50.7 76.1

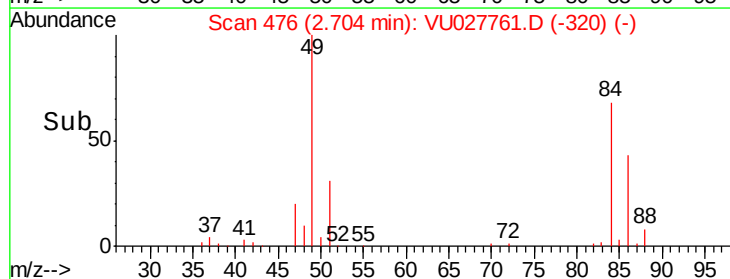
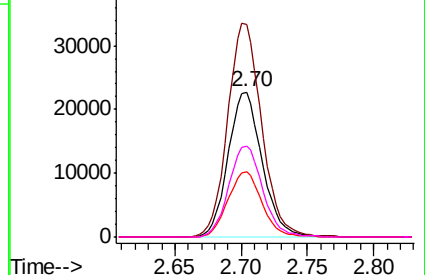


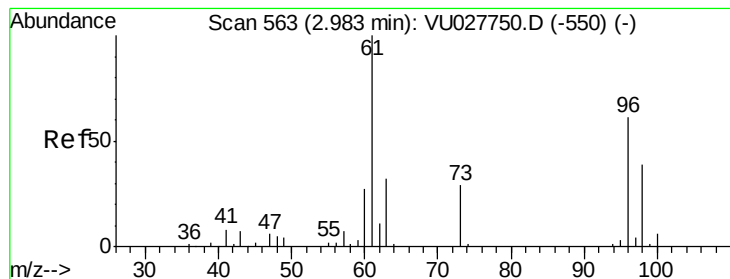
Abundance Ion 84.00 (83.70 to 84.70): VU027750.D (-463) (-)

Ion 49.00 (48.70 to 49.70): VU027750.D (-463) (-)

Ion 51.00 (50.70 to 51.70): VU027750.D (-463) (-)

Ion 86.00 (85.70 to 86.70): VU027750.D (-463) (-)





#16

trans-1,2-Dichloroethene

Concen: 3.206 ug/l

RT: 2.98 min Scan# 563

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

1720

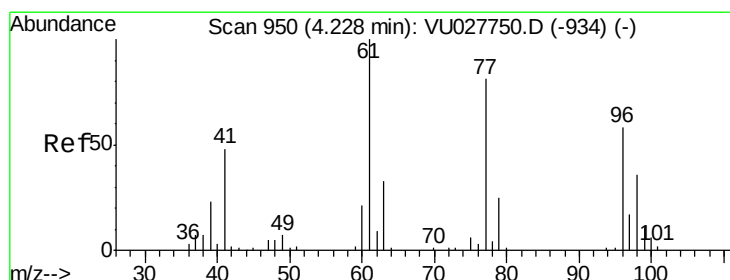
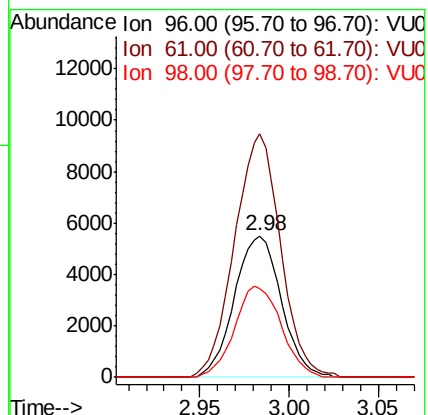
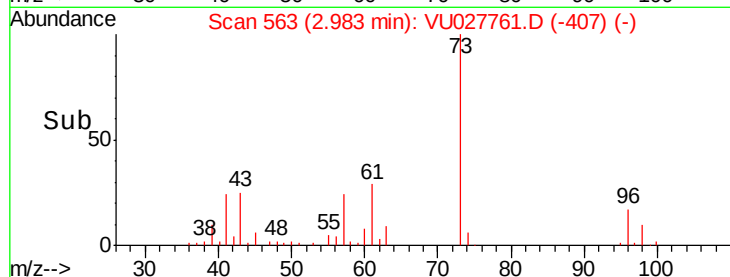
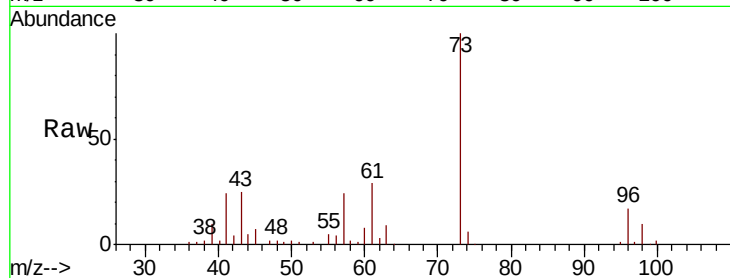
Tot Ion: 96 Resp: 10050

Ion Ratio Lower Upper

96 100

61 172.0 131.8 197.6

98 62.3 51.2 76.8



#22

cis-1,2-Dichloroethene

Concen: 16.052 ug/l

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

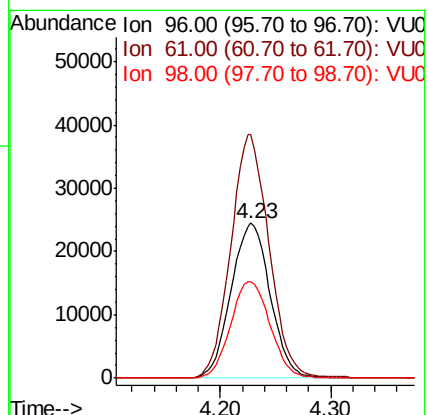
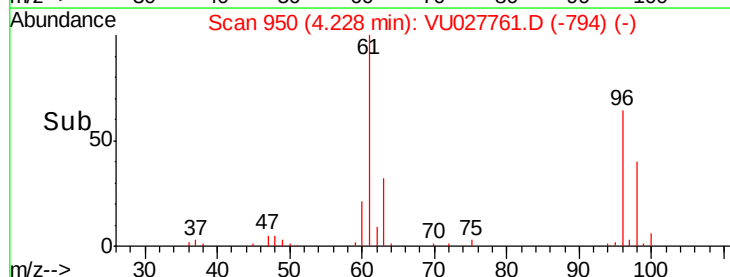
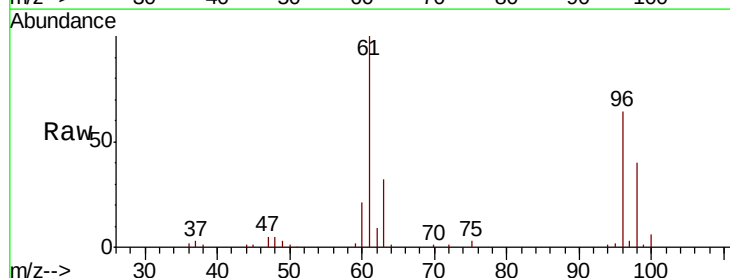
Tgt Ion: 96 Resp: 60238

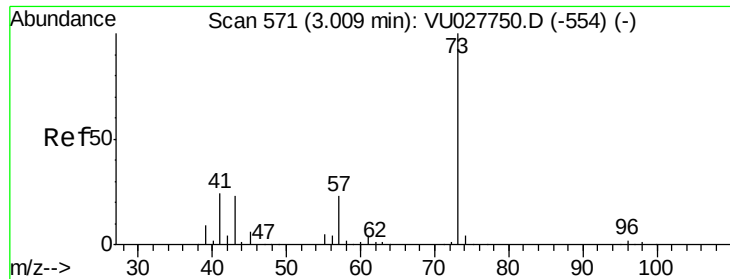
Ion Ratio Lower Upper

96 100

61 153.0 0.0 444.0

98 62.9 31.9 95.5



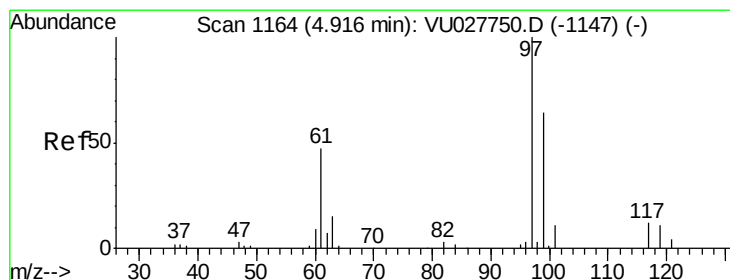
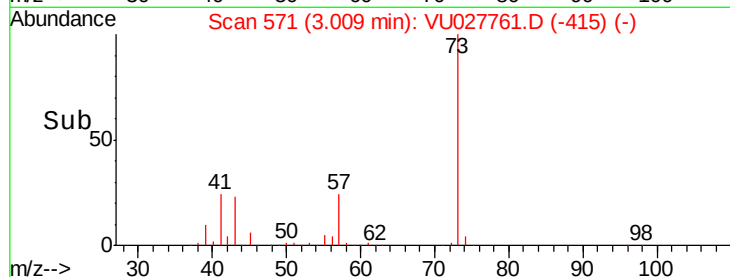
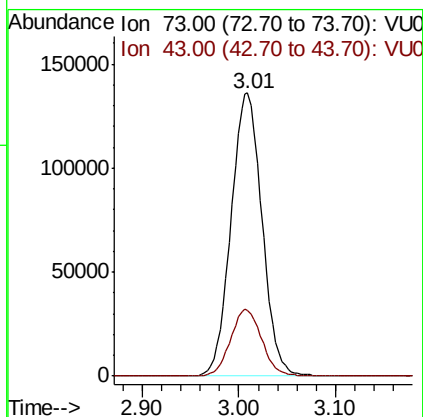
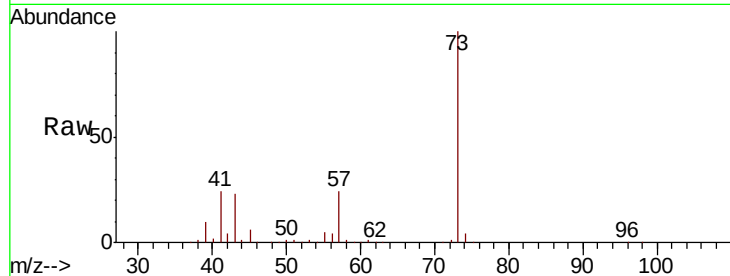


#25

Methyl tert-Butyl Ether
 Concen: 33.745 ug/l
 RT: 3.01 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: VU027761.D
 Acq: 23 Oct 2018 13:33

Instrument :
 MSVOA_U
 ClientSampleID :
 1720

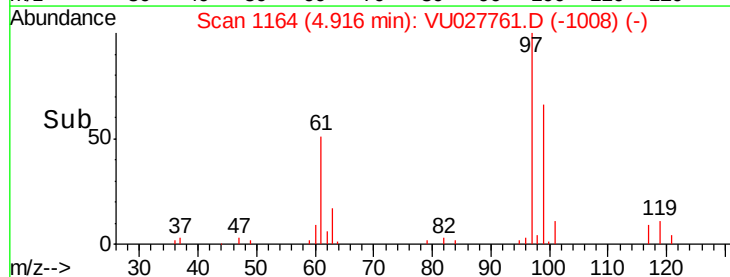
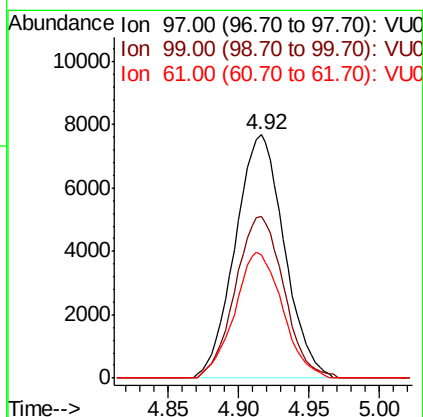
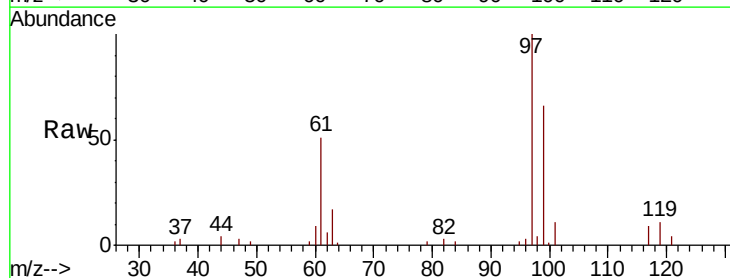
Tot Ion: 73 Resp: 302561
 Ion Ratio Lower Upper
 73 100
 43 23.3 18.6 27.8

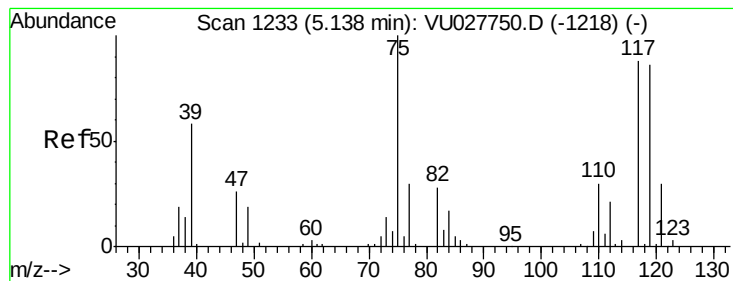


#28

1,1,1-Trichloroethane
 Concen: 3.114 ug/l
 RT: 4.92 min Scan# 1164
 Delta R.T. 0.00 min
 Lab File: VU027761.D
 Acq: 23 Oct 2018 13:33

Tgt Ion: 97 Resp: 18672
 Ion Ratio Lower Upper
 97 100
 99 65.5 31.8 95.4
 61 50.4 23.6 70.8





#29

1,1-Dichloropropene

Concen: 14.722 ug/l

RT: 5.13 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

1720

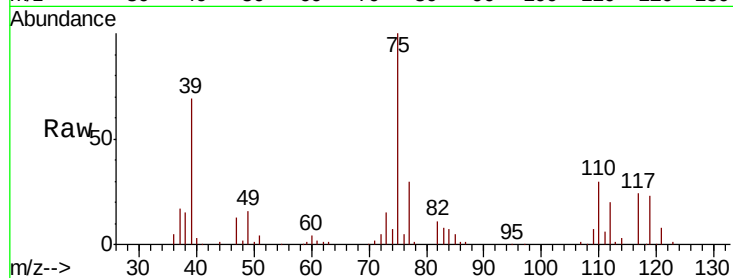
Tot Ion: 75 Resp: 77083

Ion Ratio Lower Upper

75 100

110 31.3 15.6 46.8

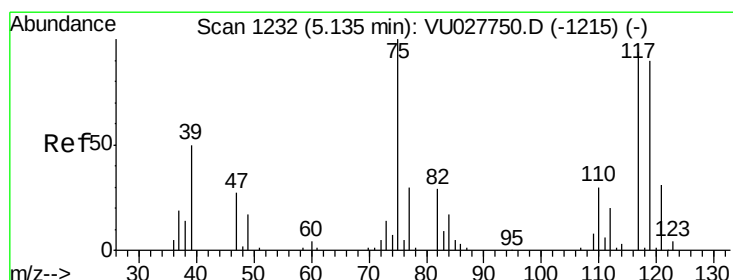
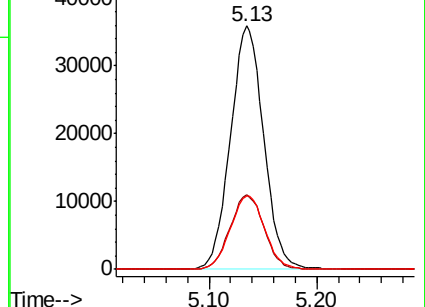
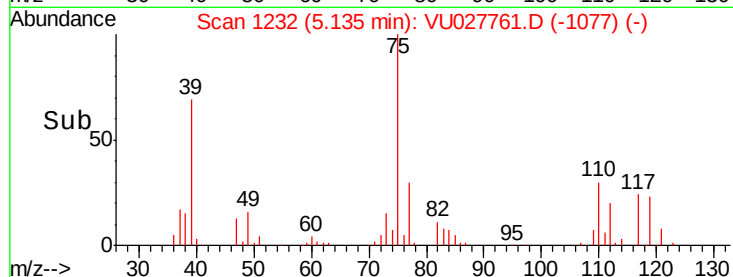
77 31.3 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VU027750.D (-1218) (-)

Ion 110.00 (109.70 to 110.70): VU027750.D (-1218) (-)

Ion 77.00 (76.70 to 77.70): VU027750.D (-1218) (-)



#30

Carbon Tetrachloride

Concen: 3.811 ug/l

RT: 5.13 min Scan# 1231

Delta R.T. -0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

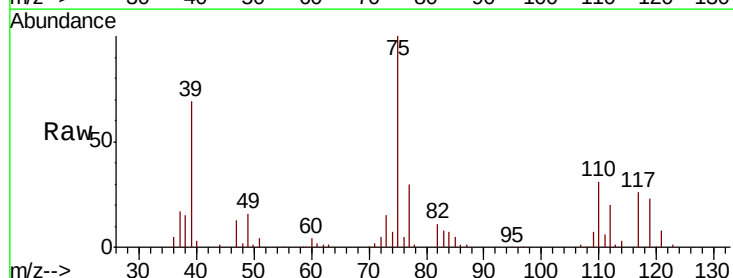
Tgt Ion: 117 Resp: 20416

Ion Ratio Lower Upper

117 100

119 91.4 76.2 114.4

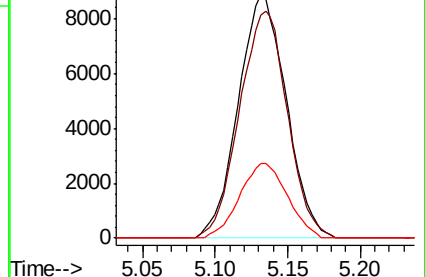
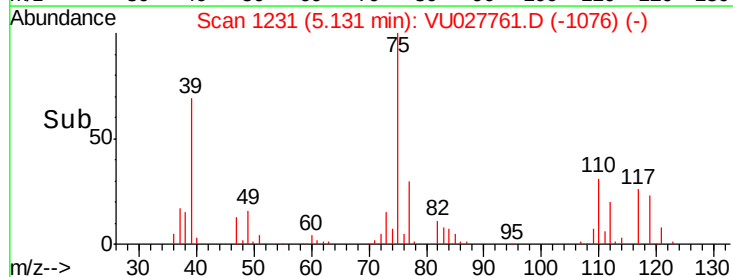
121 30.5 26.4 39.6

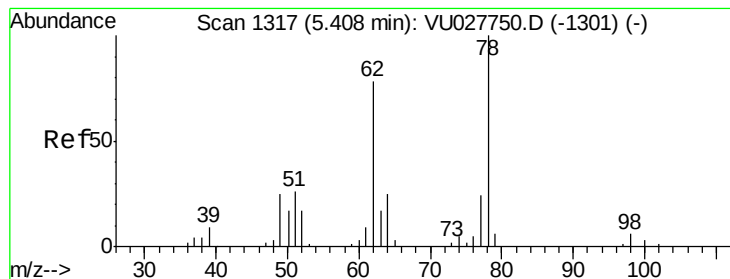


Abundance Ion 117.00 (116.70 to 117.70): VU027750.D (-1215) (-)

Ion 119.00 (118.70 to 119.70): VU027750.D (-1215) (-)

Ion 121.00 (120.70 to 121.70): VU027750.D (-1215) (-)





#36

1,2-Dichloroethane

Concen: 16.132 ug/l

RT: 5.41 min Scan# 1317

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

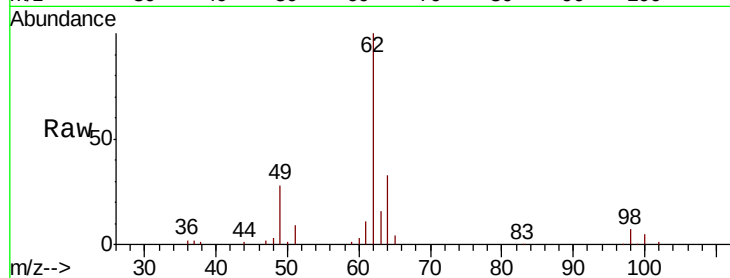
1720

Tot Ion: 62 Resp: 78556

Ion Ratio Lower Upper

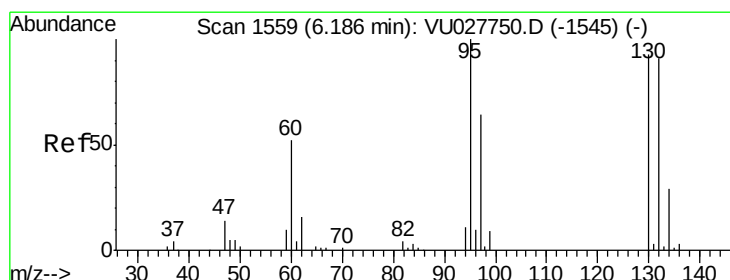
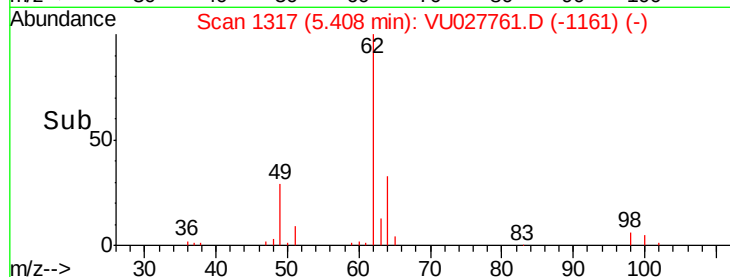
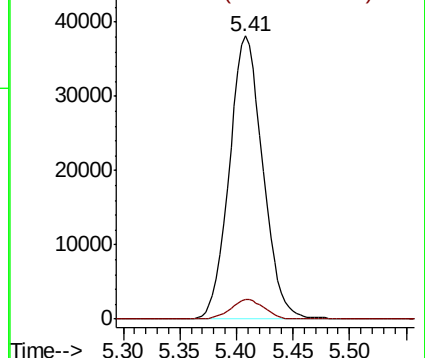
62 100

98 6.9 5.8 8.6



Abundance Ion 62.00 (61.70 to 62.70): VU027750.D (-1301) (-)

Ion 98.00 (97.70 to 98.70): VU027750.D (-1301) (-)



#37

Trichloroethene

Concen: 10.613 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU027761.D

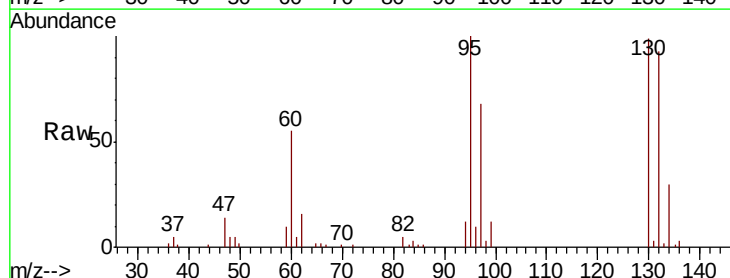
Acq: 23 Oct 2018 13:33

Tgt Ion:130 Resp: 38309

Ion Ratio Lower Upper

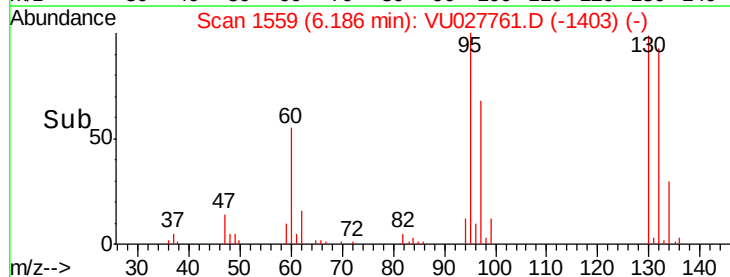
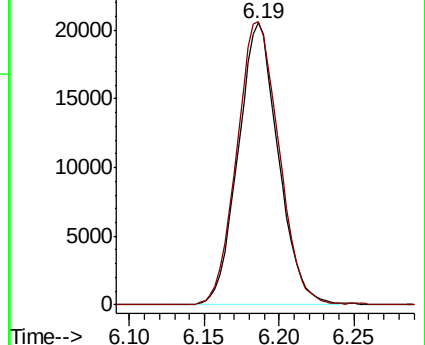
130 100

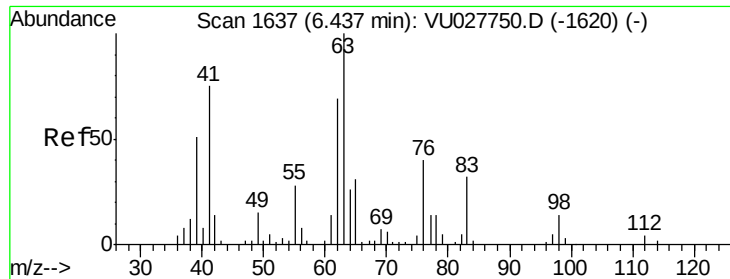
95 100.5 86.4 129.6



Abundance Ion 129.90 (129.60 to 130.60): VU027750.D (-1545) (-)

Ion 94.90 (94.60 to 95.60): VU027750.D (-1545) (-)

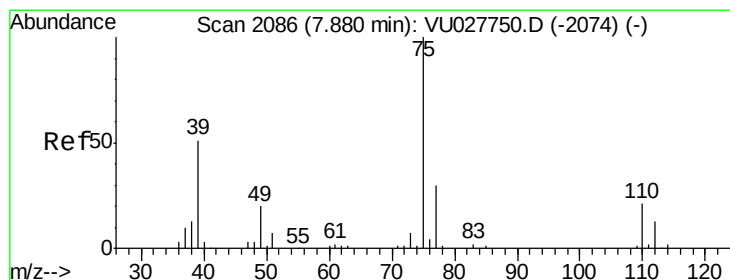
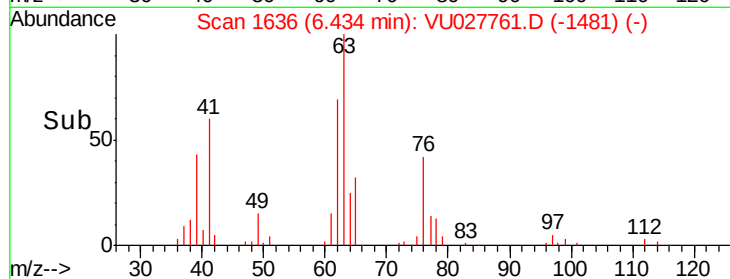
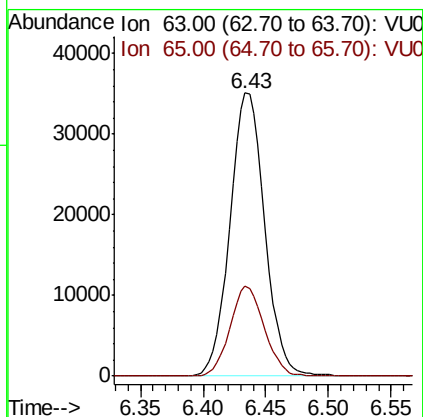
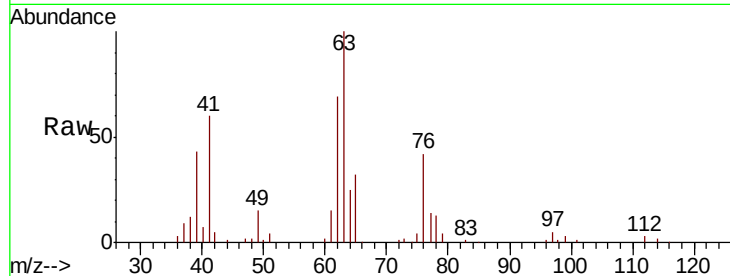




#38
 1,2-Dichloropropane
 Concen: 16.427 ug/l
 RT: 6.43 min Scan# 1636
 Delta R.T. -0.00 min
 Lab File: VU027761.D
 Acq: 23 Oct 2018 13:33

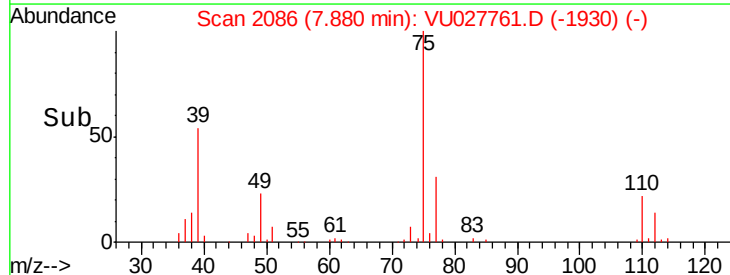
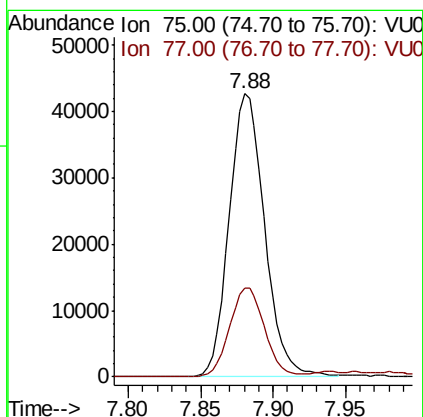
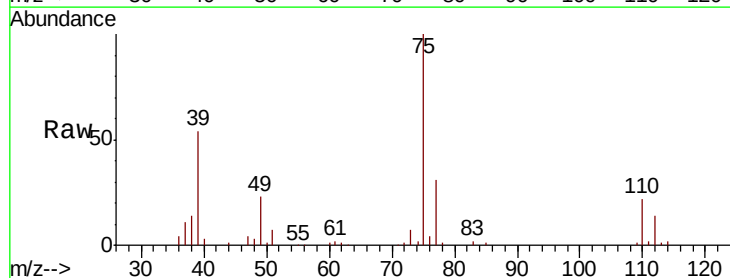
Instrument :
 MSVOA_U
 ClientSampleId :
 1720

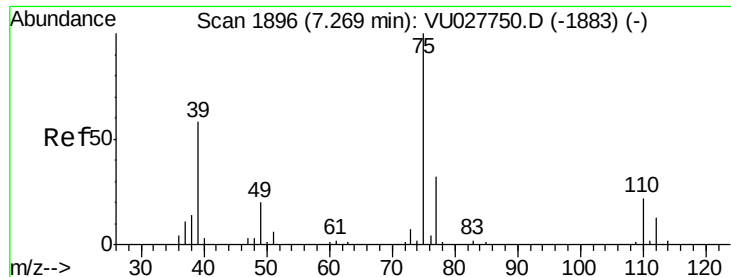
Tot Ion: 63 Resp: 67497
 Ion Ratio Lower Upper
 63 100
 65 31.9 24.9 37.3



#50
 t-1,3-Dichloropropene
 Concen: 14.371 ug/l
 RT: 7.88 min Scan# 2086
 Delta R.T. 0.00 min
 Lab File: VU027761.D
 Acq: 23 Oct 2018 13:33

Tgt Ion: 75 Resp: 72624
 Ion Ratio Lower Upper
 75 100
 77 31.3 24.1 36.1



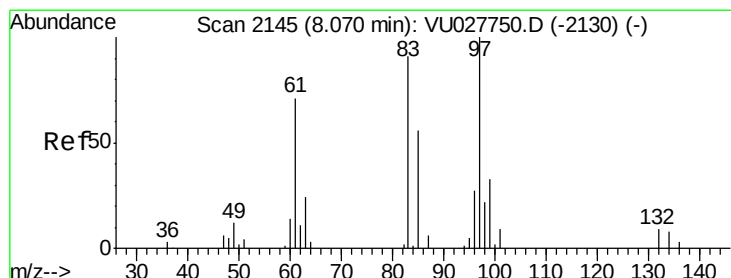
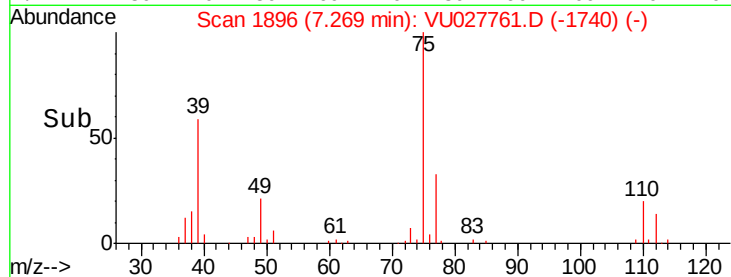
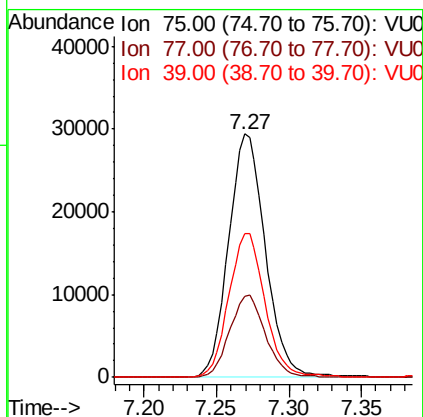
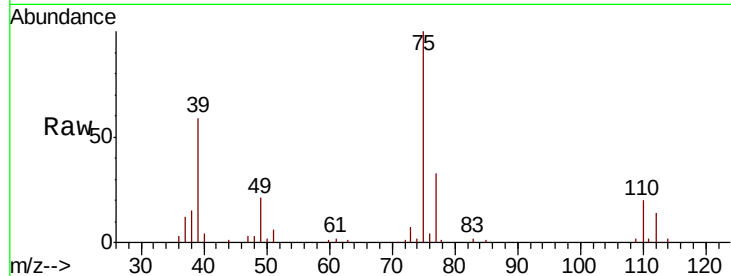


#51

cis-1,3-Dichloropropene
Concen: 8.681 ug/l
RT: 7.27 min Scan# 1896
Delta R.T. 0.00 min
Lab File: VU027761.D
Acq: 23 Oct 2018 13:33

Instrument :
MSVOA_U
ClientSampleId :
1720

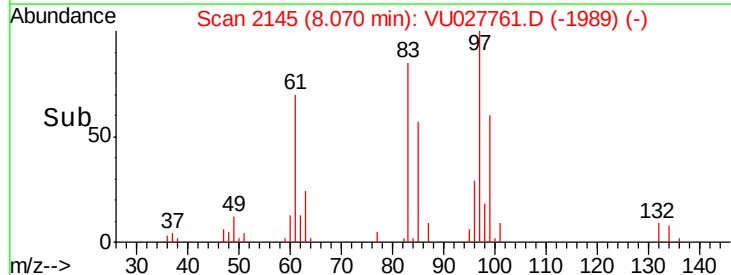
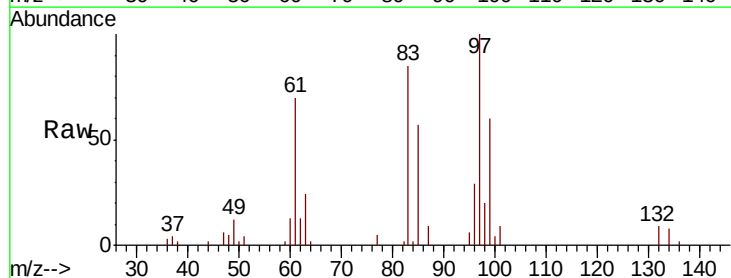
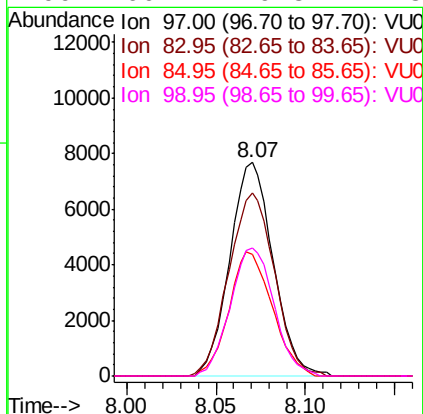
Tot Ion	75	Resp	51683
Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.3	37.9
39	59.0	46.4	69.6

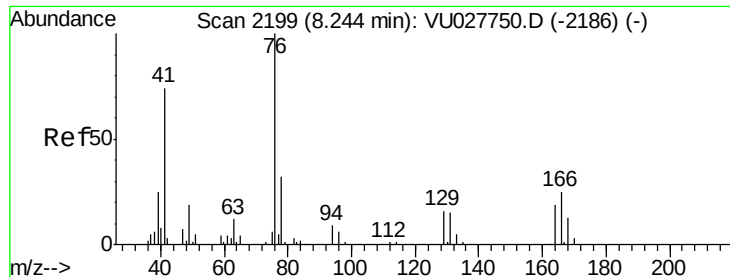


#52

1,1,2-Trichloroethane
Concen: 5.139 ug/l
RT: 8.07 min Scan# 2145
Delta R.T. 0.00 min
Lab File: VU027761.D
Acq: 23 Oct 2018 13:33

Tgt Ion	97	Resp	12968
Ion	Ratio	Lower	Upper
97	100		
83	85.4	73.0	109.6
85	56.9	46.5	69.7
99	60.2	49.8	74.8





#53

1,3-Dichloropropane

Concen: 13.515 ug/l

RT: 8.24 min Scan# 2199

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

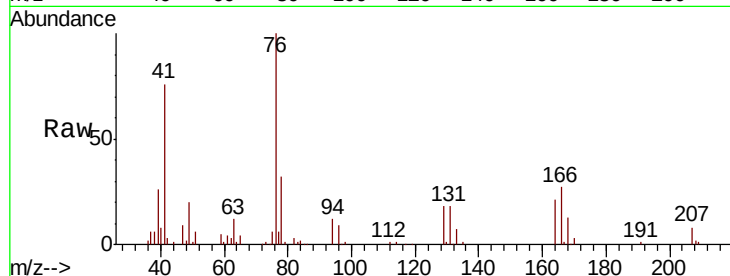
1720

Tot Ion: 76 Resp: 65514

Ion Ratio Lower Upper

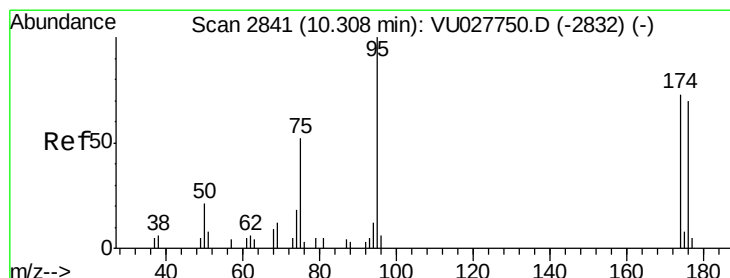
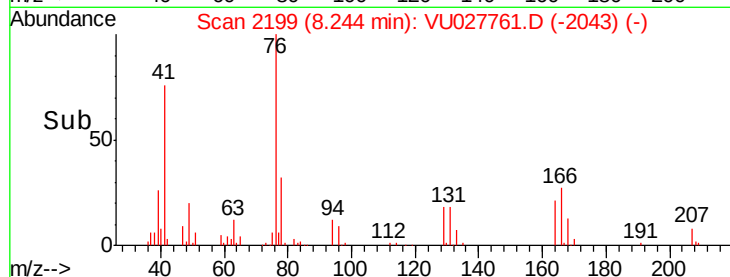
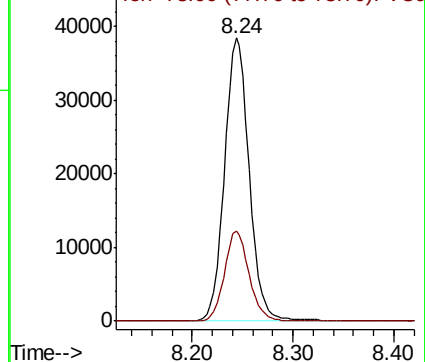
76 100

78 31.7 25.4 38.0



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0



#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 2842

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

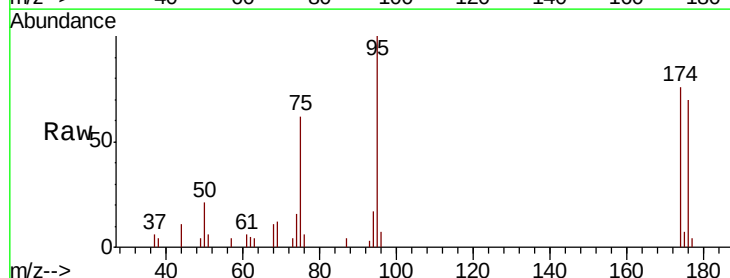
Tgt Ion: 95 Resp: 4677

Ion Ratio Lower Upper

95 100

174 74.0 64.5 96.7

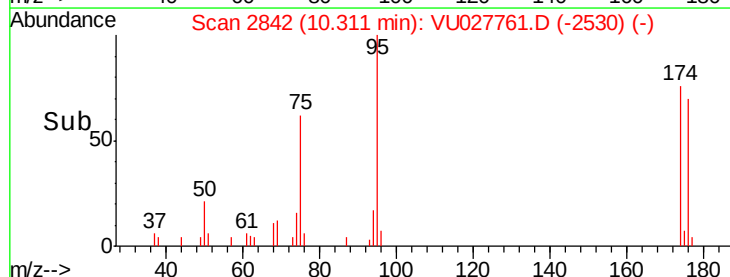
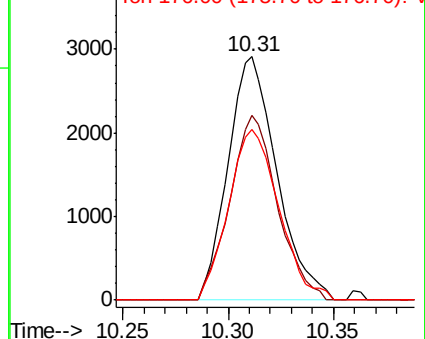
176 72.2 58.3 87.5

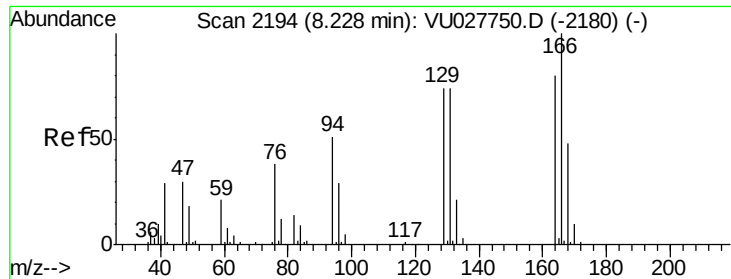


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#58

Tetrachloroethene

Concen: 11.254 ug/l

RT: 8.23 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

1720

Tot Ion:164 Resp: 38316

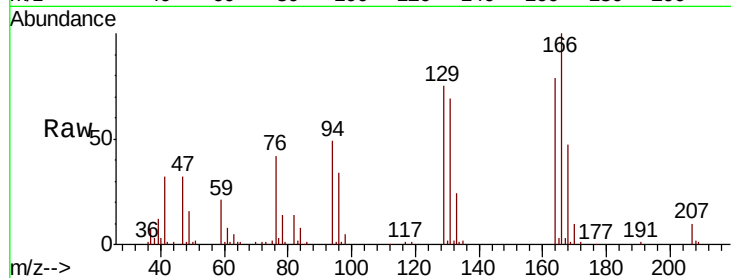
Ion Ratio Lower Upper

164 100

166 127.2 100.2 150.4

129 94.8 73.7 110.5

131 88.1 73.8 110.6

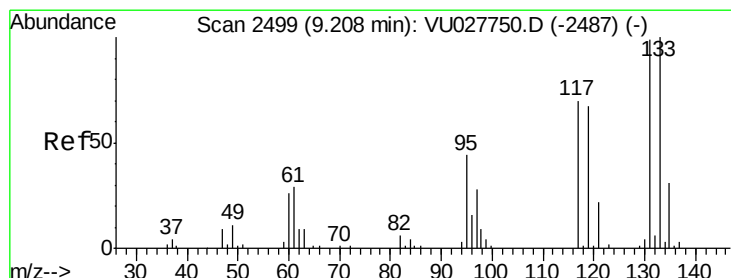
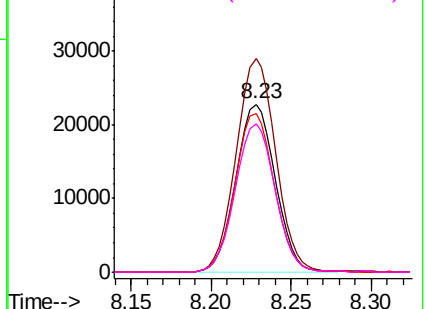
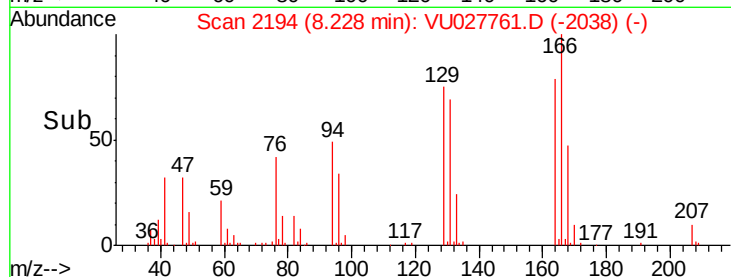


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#60

1,1,1,2-Tetrachloroethane

Concen: 2.253 ug/l

RT: 9.21 min Scan# 2499

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

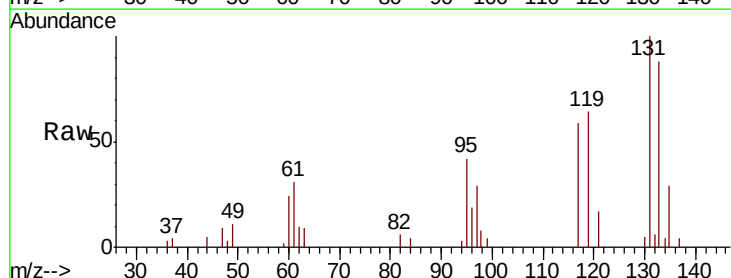
Tgt Ion:131 Resp: 7619

Ion Ratio Lower Upper

131 100

133 90.9 77.5 116.3

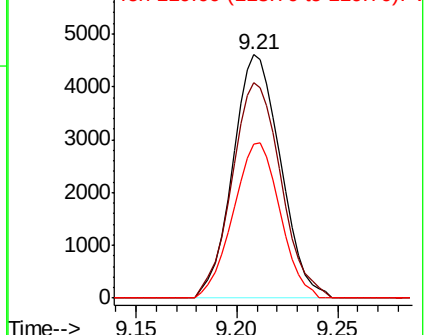
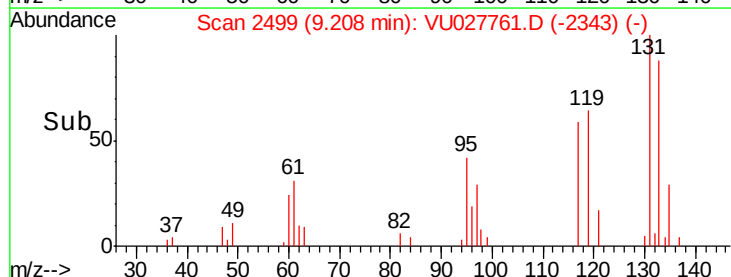
119 62.6 52.0 78.0

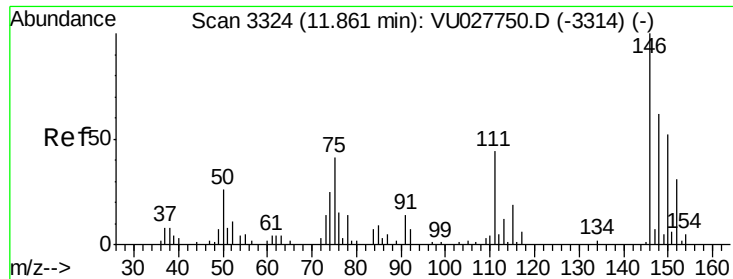


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3324

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Instrument :

MSVOA_U

ClientSampleId :

1720

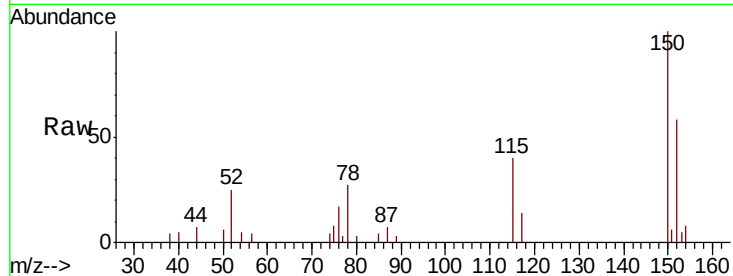
Tot Ion:152 Resp: 3987

Ion Ratio Lower Upper

152 100

115 66.8 0.0 130.2

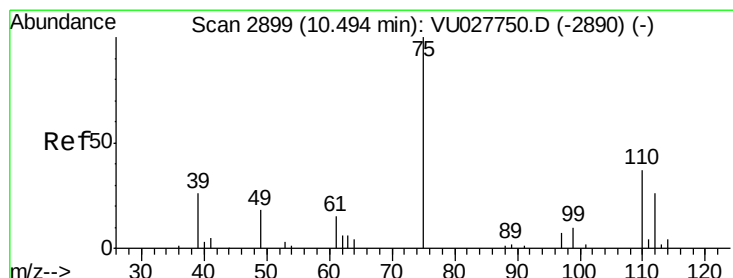
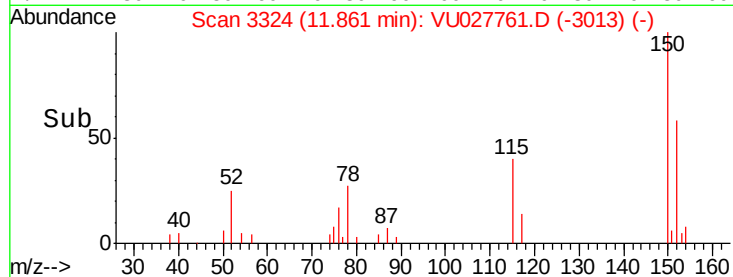
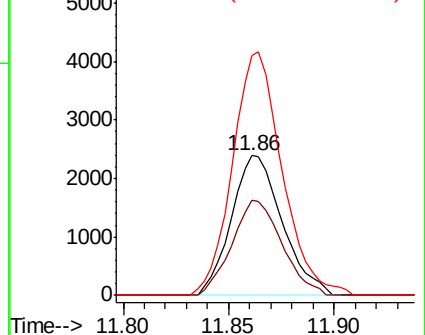
150 170.1 0.0 650.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#71

1,2,3-Trichloropropane

Concen: 18.716 ug/l

RT: 10.49 min Scan# 2899

Delta R.T. 0.00 min

Lab File: VU027761.D

Acq: 23 Oct 2018 13:33

Tgt Ion: 75 Resp: 48777

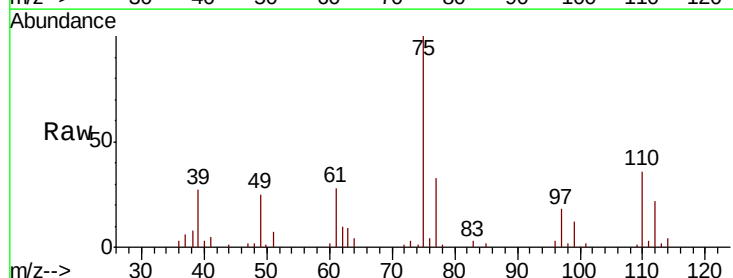
Ion Ratio Lower Upper

75 100

77 33.1 0.0 0.0#

110 35.1 0.0 68.2

97 18.1 0.0 35.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

Ion 110.00 (109.70 to 110.70): V

Ion 97.00 (96.70 to 97.70): VU0

