

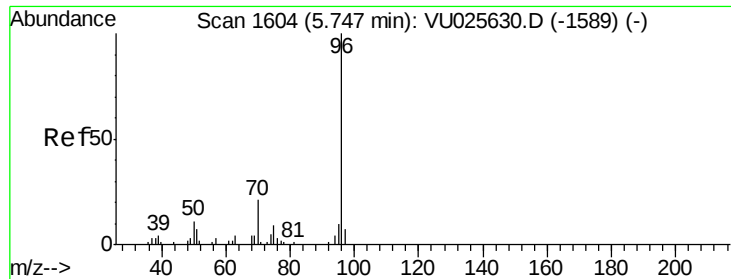
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU072518\
 Data File : VU025635.D
 Acq On : 25 Jul 2018 14:49
 Operator : MD/SY
 Sample : J4020-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 RR-RVOA-WS

Quant Time: Jul 26 03:38:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072518DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Jul 25 12:16:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	44233	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	15795	0.96	ug/l	0.00
Spiked Amount 1.000			Recovery	=	96.00%	
68) 1,2-Dichlorobenzene-d4	11.87	152	18153	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	
Target Compounds						Ovalue
4) Vinyl Chloride	1.41	62	470810	34.110	ug/l	100
9) 1,1-Dichloroethene	2.29	96	134767	13.820	ug/l	95
15) Methylene Chloride	2.70	84	44213	3.803	ug/l	98
16) trans-1,2-Dichloroethene	2.98	96	109167	9.984	ug/l	93
22) cis-1,2-Dichloroethene	4.23	96	191718	13.927	ug/l	83
28) 1,1,1-Trichloroethane	4.92	97	107226	4.989	ug/l	98
30) Carbon Tetrachloride	5.14	117	140264	7.186	ug/l	98
35) Benzene	5.39	78	283653	5.756	ug/l	99
36) 1,2-Dichloroethane	5.41	62	64444	4.260	ug/l	97
37) Trichloroethene	6.19	130	147535	10.163	ug/l	98
38) 1,2-Dichloropropane	6.44	63	69014	5.397	ug/l	99
49) Toluene	7.64	92	96221	3.195	ug/l	95
52) 1,1,2-Trichloroethane	8.07	97	103567	11.573	ug/l	94
58) Tetrachloroethene	8.23	164	129957	9.960	ug/l	98
59) Chlorobenzene	9.12	112	486330	14.043	ug/l	99
63) Ethyl Benzene	9.25	91	344264	5.976	ug/l	99
64) m/p-Xylenes	9.38	106	511522	22.591	ug/l	98
65) o-Xylene	9.78	106	247602	11.475	ug/l	98
66) Styrene	9.80	104	141697	3.867	ug/l #	81
83) 1,4-Dichlorobenzene	11.51	146	206870	6.813	ug/l	100
85) 1,2-Dichlorobenzene	11.88	146	306194	10.769	ug/l	100
87) 1,2,4-Trichlorobenzene	13.51	180	254784	12.870	ug/l	100
-----	-----	-----	-----	-----	-----	-----

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Instrument :

MSVOA_U

ClientSampleId :

RR-RVOA-WS

Tot Ion: 96 Resp: 44233

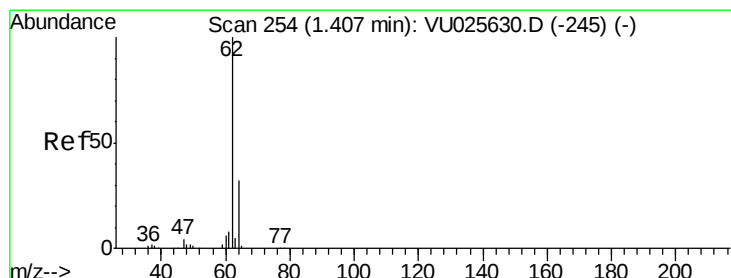
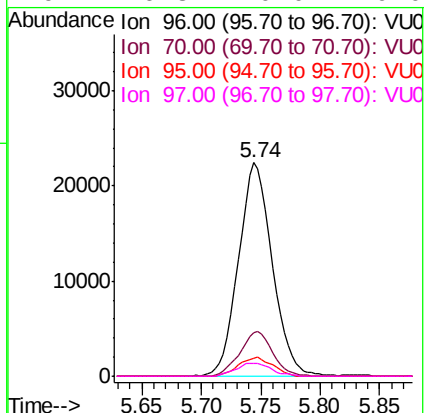
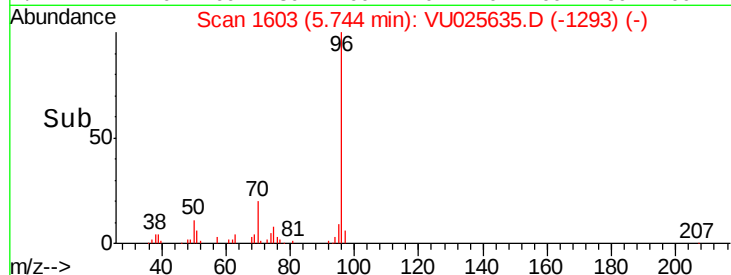
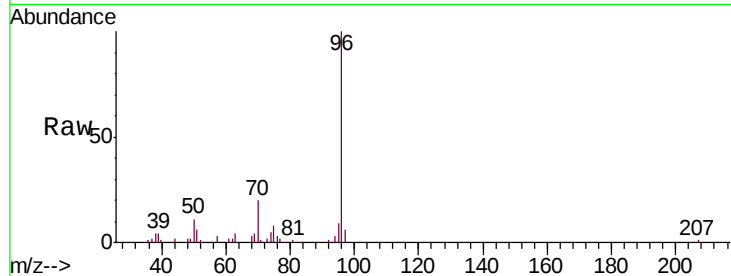
Ion Ratio Lower Upper

96 100

70 20.3 16.2 24.4

95 8.9 6.9 10.3

97 6.3 0.0 0.0#



#4

Vinyl Chloride

Concen: 34.110 ug/l

RT: 1.41 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU025635.D

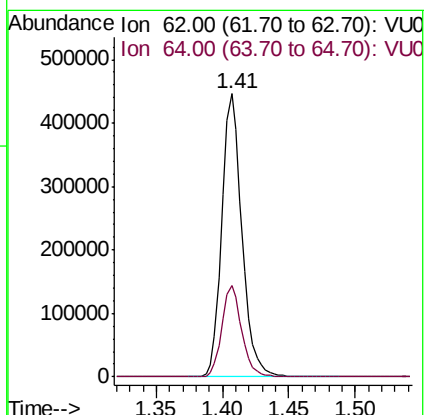
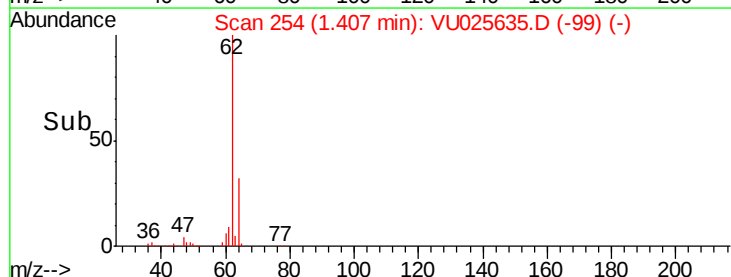
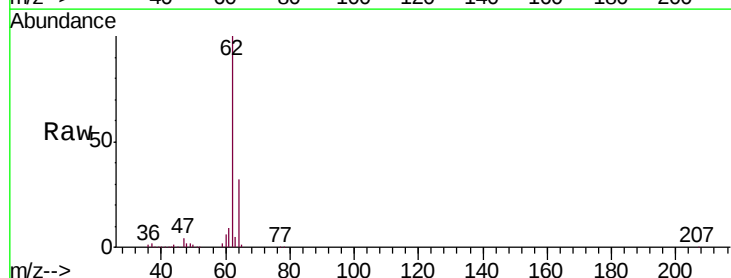
Acq: 25 Jul 2018 14:49

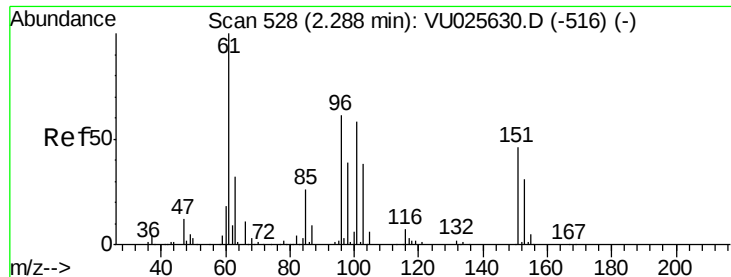
Tgt Ion: 62 Resp: 470810

Ion Ratio Lower Upper

62 100

64 32.2 25.8 38.8





#9

1,1-Dichloroethene

Concen: 13.820 ug/l

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Instrument :

MSVOA_U

ClientSampleId :

RR-RVOA-WS

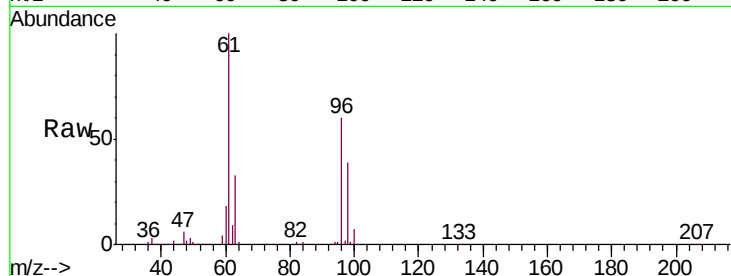
Tot Ion: 96 Resp: 134767

Ion Ratio Lower Upper

96 100

61 167.8 0.0 526.5

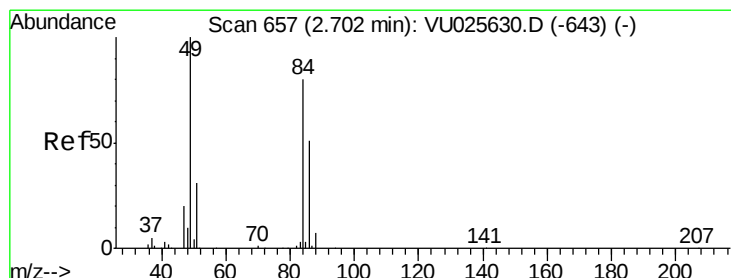
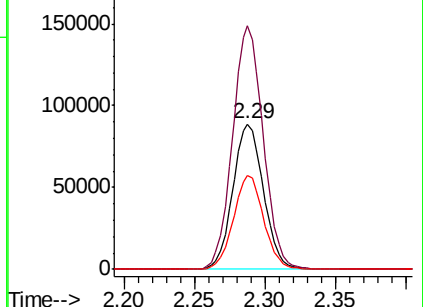
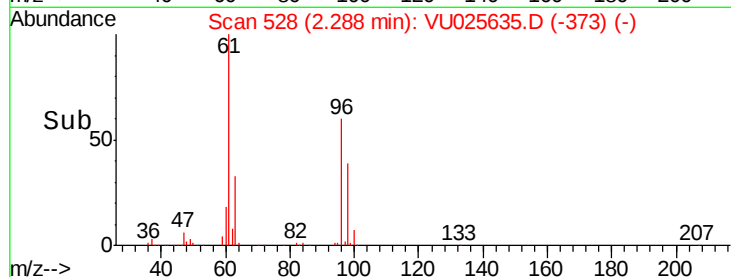
98 64.8 0.0 123.4



Abundance Ion 96.00 (95.70 to 96.70): VU025635.D (-502) (-)

Ion 61.00 (60.70 to 61.70): VU025635.D (-502) (-)

Ion 98.00 (97.70 to 98.70): VU025635.D (-502) (-)



#15

Methylene Chloride

Concen: 3.803 ug/l

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Tgt Ion: 84 Resp: 44213

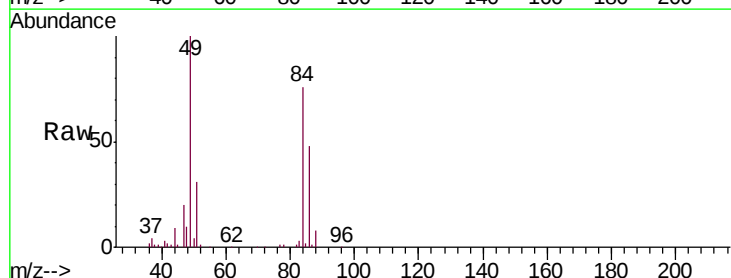
Ion Ratio Lower Upper

84 100

49 131.1 108.7 163.1

51 41.3 0.0 82.4

86 62.8 50.7 76.1

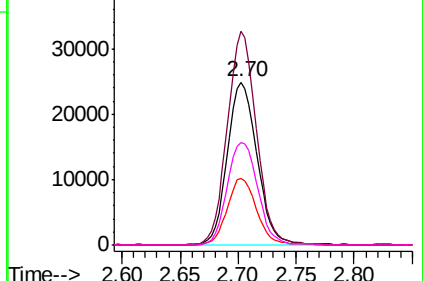
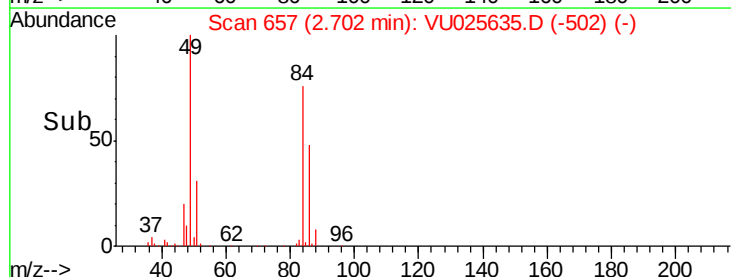


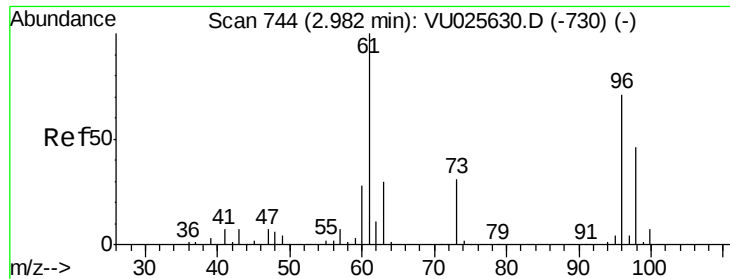
Abundance Ion 84.00 (83.70 to 84.70): VU025635.D (-502) (-)

Ion 49.00 (48.70 to 49.70): VU025635.D (-502) (-)

Ion 51.00 (50.70 to 51.70): VU025635.D (-502) (-)

Ion 86.00 (85.70 to 86.70): VU025635.D (-502) (-)





#16

trans-1,2-Dichloroethene

Concen: 9.984 ug/l

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Instrument :

MSVOA_U

ClientSampleId :

RR-RVOA-WS

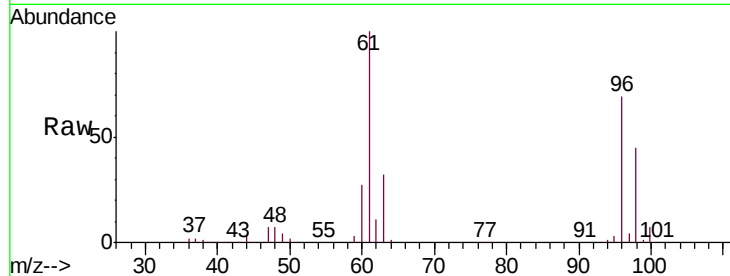
Tot Ion: 96 Resp: 109167

Ion Ratio Lower Upper

96 100

61 143.9 123.9 185.9

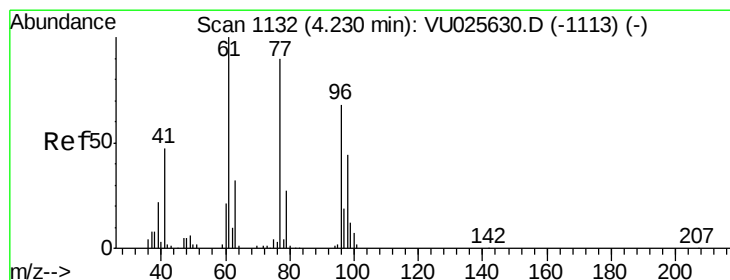
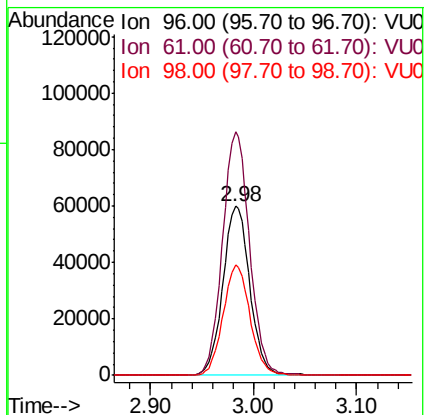
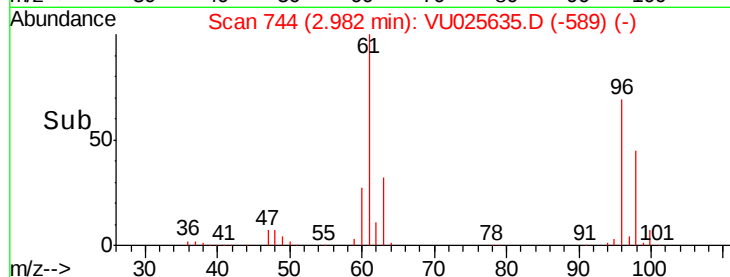
98 65.2 50.6 76.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#22

cis-1,2-Dichloroethene

Concen: 13.927 ug/l

RT: 4.23 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

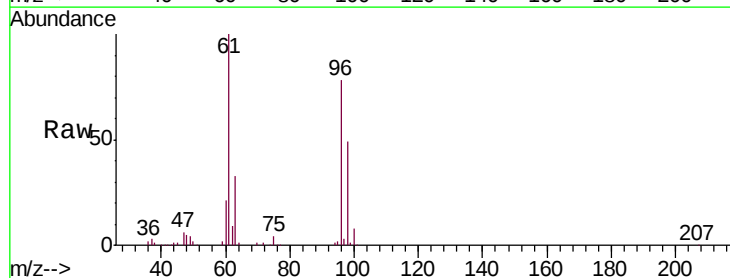
Tgt Ion: 96 Resp: 191718

Ion Ratio Lower Upper

96 100

61 129.4 0.0 400.5

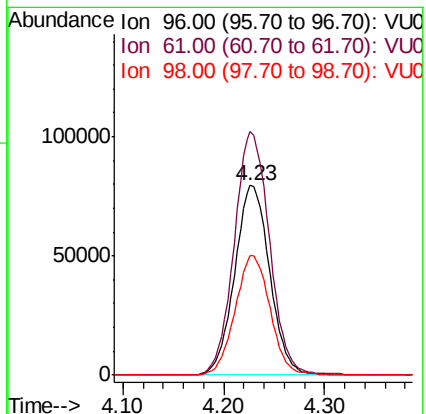
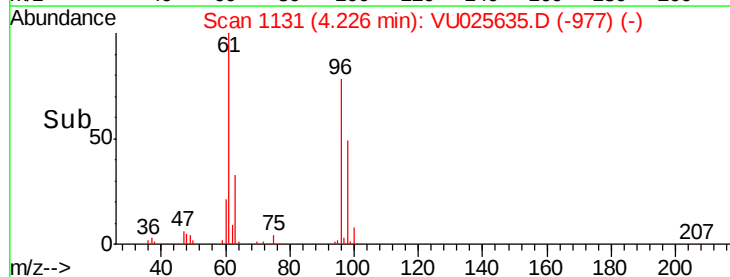
98 62.8 32.2 96.6

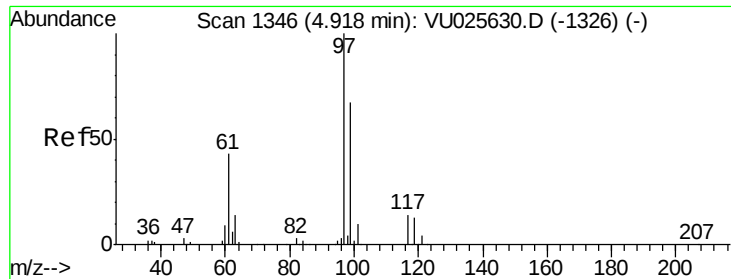


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

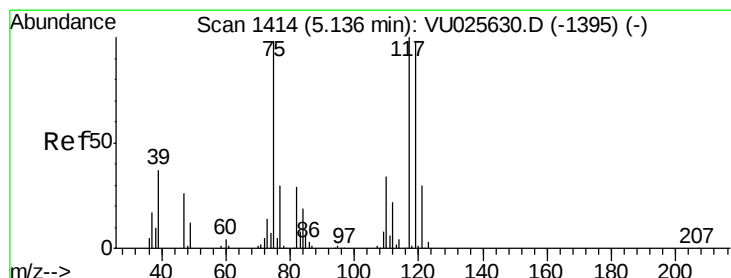
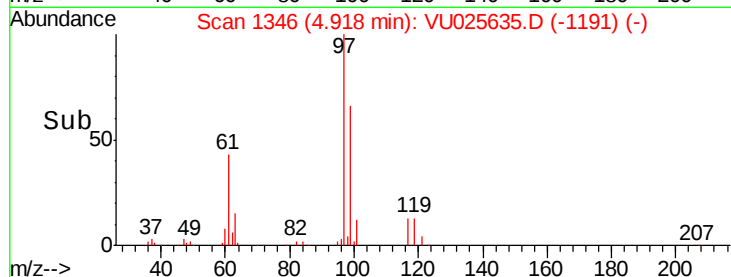
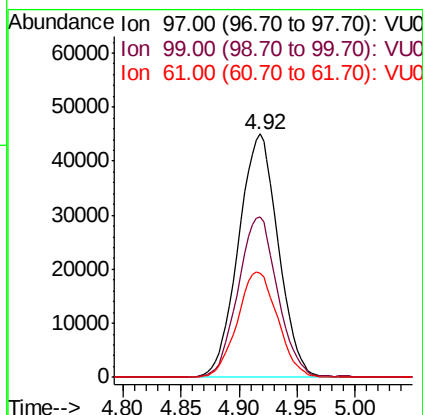
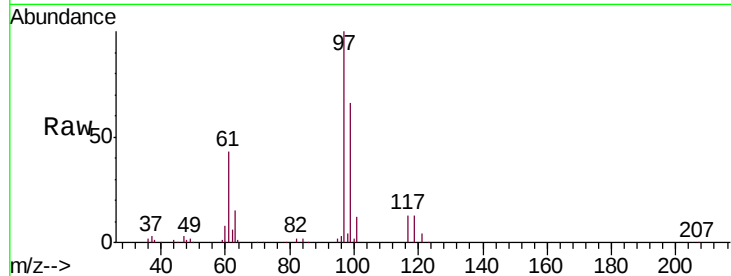




#28
 1,1,1-Trichloroethane
 Concen: 4.989 ug/l
 RT: 4.92 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VU025635.D
 Acq: 25 Jul 2018 14:49

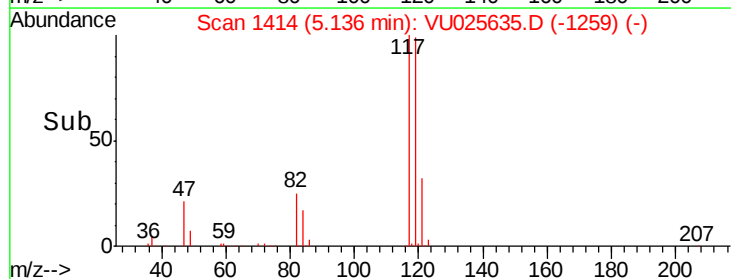
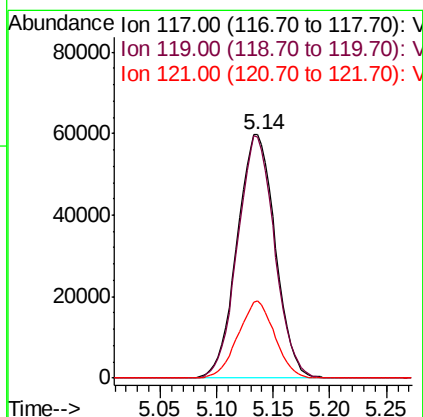
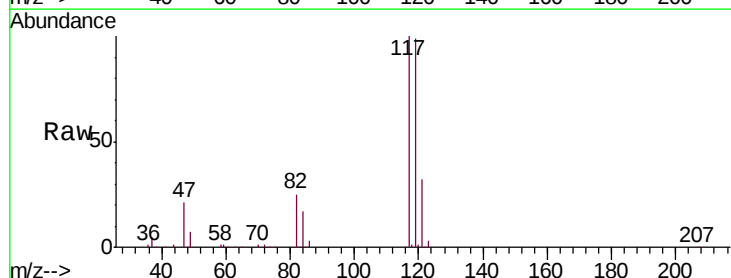
Instrument :
 MSVOA_U
 ClientSampleId :
 RR-RVOA-WS

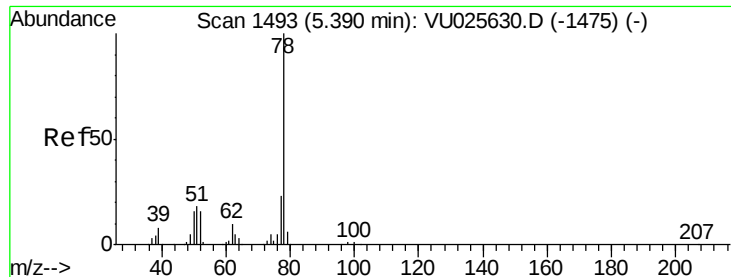
Tot Ion	97	Resp	107226
Ion	Ratio	Lower	Upper
97	100		
99	65.8	32.3	96.9
61	43.9	23.2	69.5



#30
 Carbon Tetrachloride
 Concen: 7.186 ug/l
 RT: 5.14 min Scan# 1414
 Delta R.T. -0.00 min
 Lab File: VU025635.D
 Acq: 25 Jul 2018 14:49

Tgt Ion	117	Resp	140264
Ion	Ratio	Lower	Upper
117	100		
119	99.0	77.3	115.9
121	31.7	24.5	36.7





#35

Benzene

Concen: 5.756 ug/l

RT: 5.39 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Instrument :

MSVOA_U

ClientSampleId :

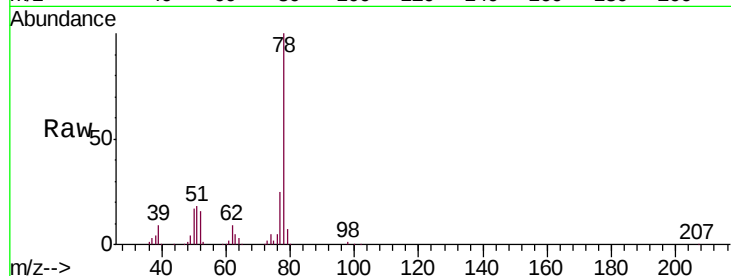
RR-RVOA-WS

Tot Ion: 78 Resp: 283653

Ion Ratio Lower Upper

78 100

77 24.5 19.1 28.7



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0

150000

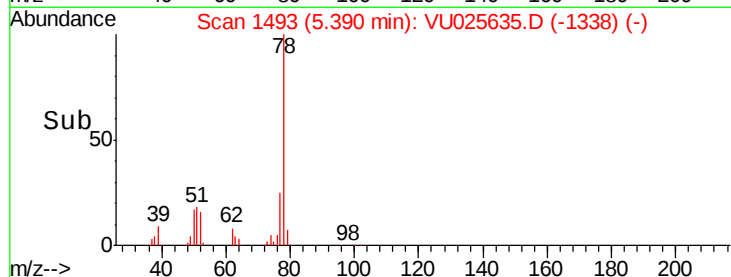
100000

50000

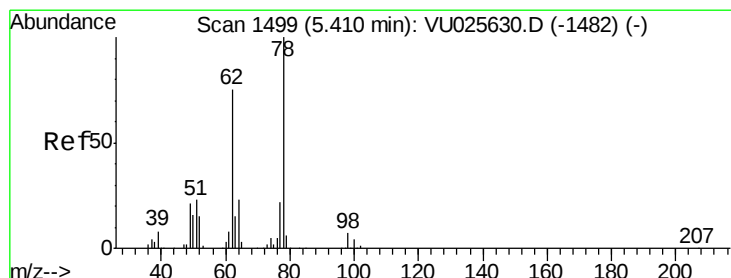
0

5.39

5.30 5.40 5.50



Time-->



#36

1,2-Dichloroethane

Concen: 4.260 ug/l

RT: 5.41 min Scan# 1499

Delta R.T. -0.00 min

Lab File: VU025635.D

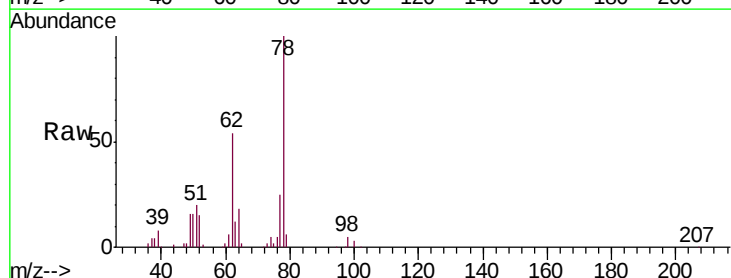
Acq: 25 Jul 2018 14:49

Tgt Ion: 62 Resp: 64444

Ion Ratio Lower Upper

62 100

98 8.0 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

30000

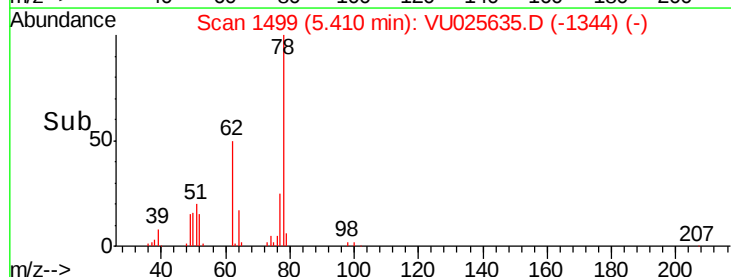
20000

10000

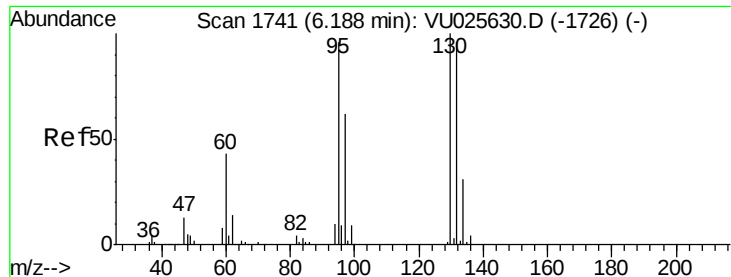
0

5.41

5.30 5.40 5.50



Time-->



#37

Trichloroethene

Concen: 10.163 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Instrument :

MSVOA_U

ClientSampleId :

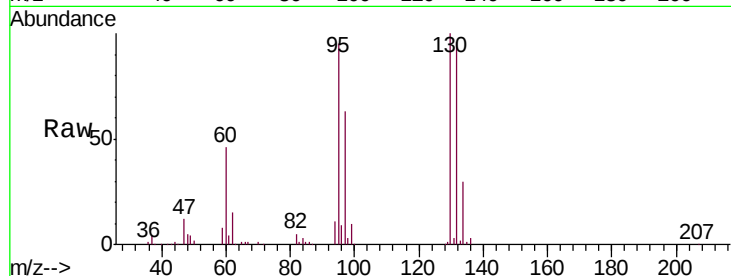
RR-RVOA-WS

Tot Ion:130 Resp: 147535

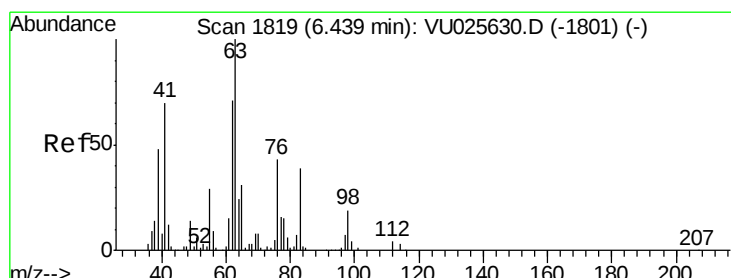
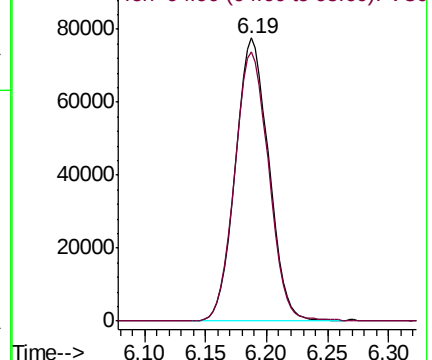
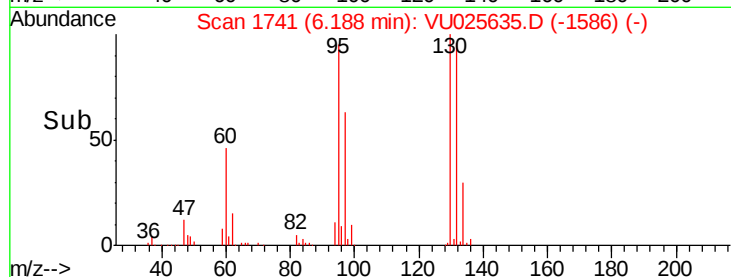
Ion Ratio Lower Upper

130 100

95 95.0 77.9 116.9



Abundance Ion 129.90 (129.60 to 130.60): VU025635.D (-1586) (-)



#38

1,2-Dichloropropane

Concen: 5.397 ug/l

RT: 6.44 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VU025635.D

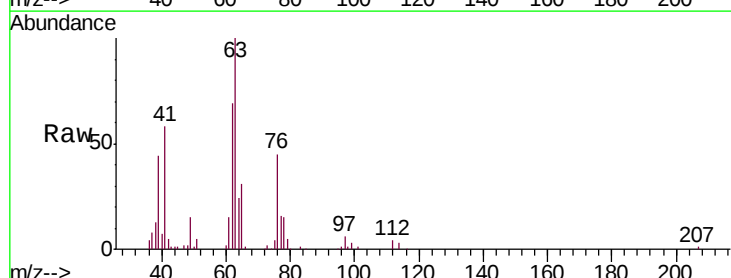
Acq: 25 Jul 2018 14:49

Tgt Ion: 63 Resp: 69014

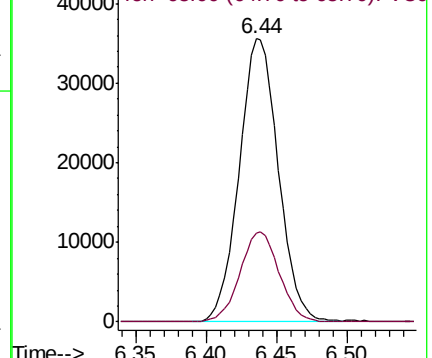
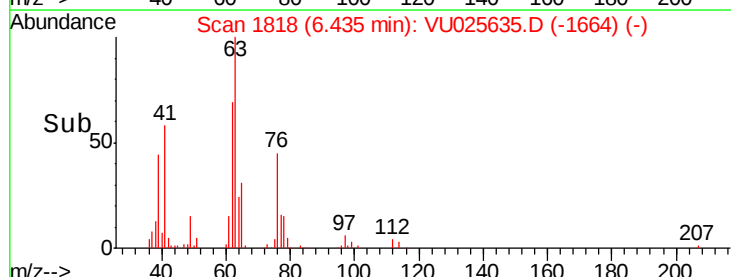
Ion Ratio Lower Upper

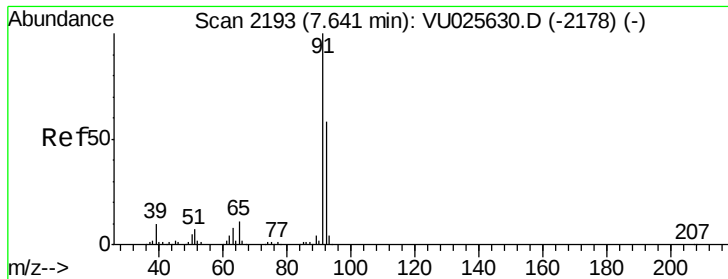
63 100

65 31.5 25.8 38.8



Abundance Ion 63.00 (62.70 to 63.70): VU025635.D (-1664) (-)





#49

Toluene

Concen: 3.195 ug/l

RT: 7.64 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Instrument :

MSVOA_U

ClientSampleId :

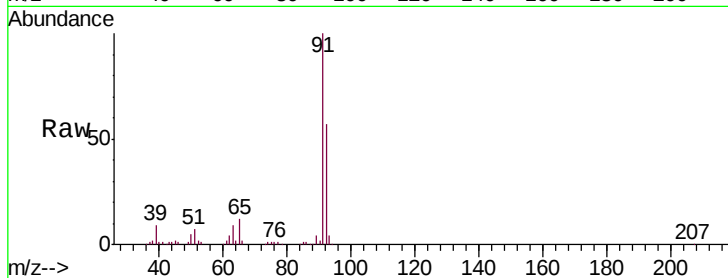
RR-RVOA-WS

Tot Ion: 92 Resp: 96221

Ion Ratio Lower Upper

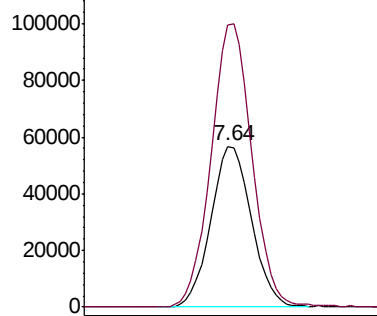
92 100

91 177.9 137.1 205.7

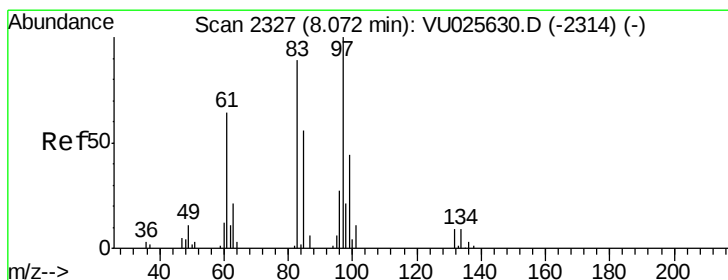
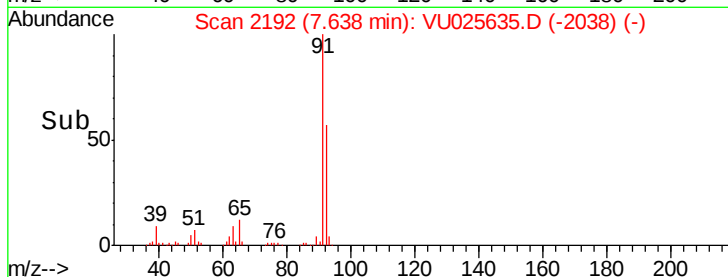


Abundance Ion 92.00 (91.70 to 92.70): VU0

Ion 91.00 (90.70 to 91.70): VU0



Time-->



#52

1,1,2-Trichloroethane

Concen: 11.573 ug/l

RT: 8.07 min Scan# 2327

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Tgt Ion: 97 Resp: 103567

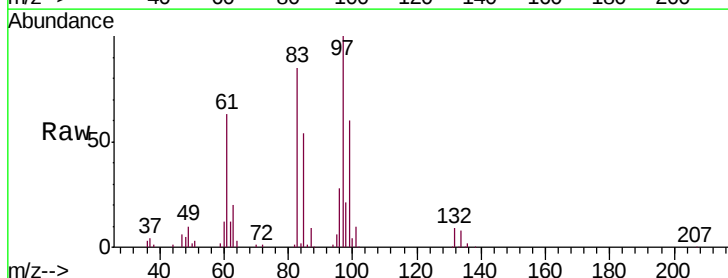
Ion Ratio Lower Upper

97 100

83 84.6 72.6 109.0

85 53.5 47.2 70.8

99 60.3 50.8 76.2

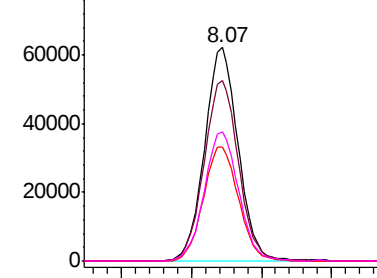


Abundance Ion 97.00 (96.70 to 97.70): VU0

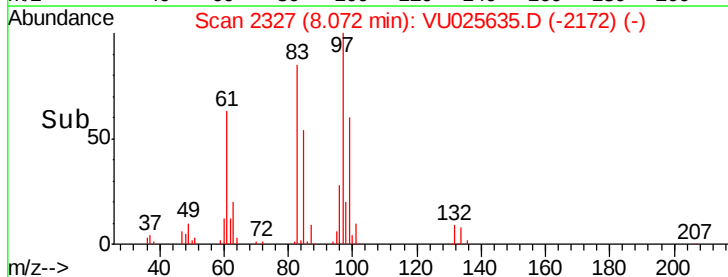
Ion 82.95 (82.65 to 83.65): VU0

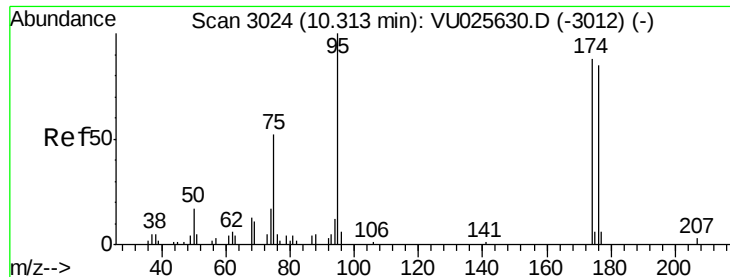
Ion 84.95 (84.65 to 85.65): VU0

Ion 98.95 (98.65 to 99.65): VU0



Time-->

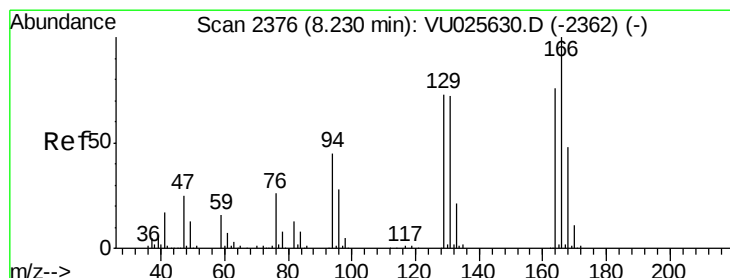
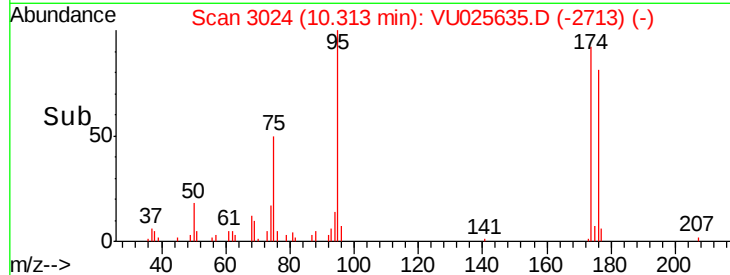
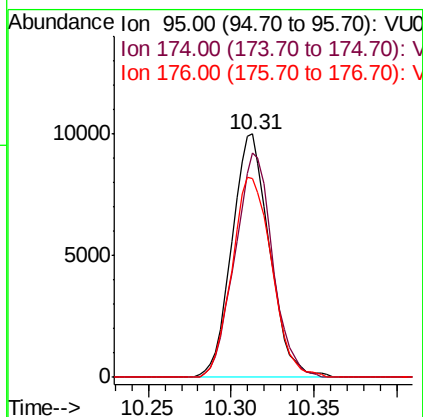
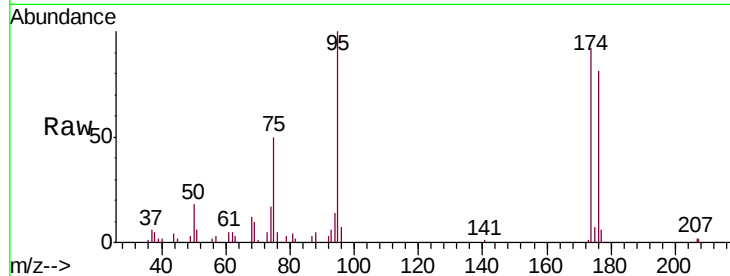




#57
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 10.31 min Scan# 3024
Delta R.T. -0.00 min
Lab File: VU025635.D
Acq: 25 Jul 2018 14:49

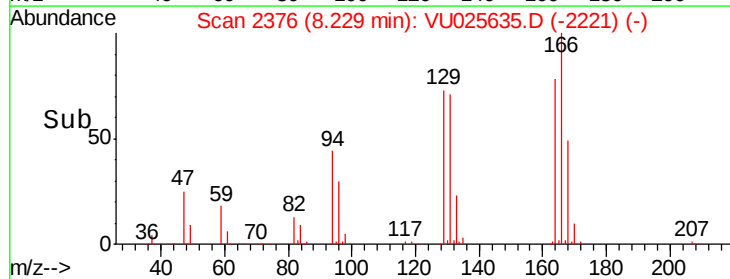
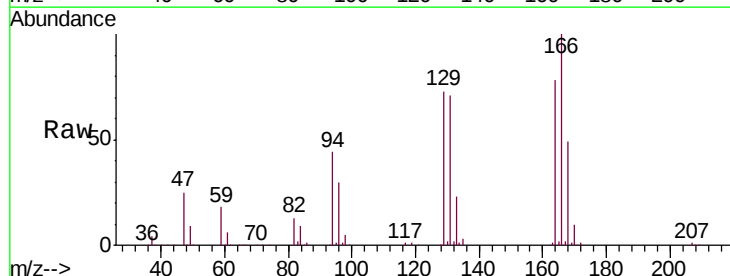
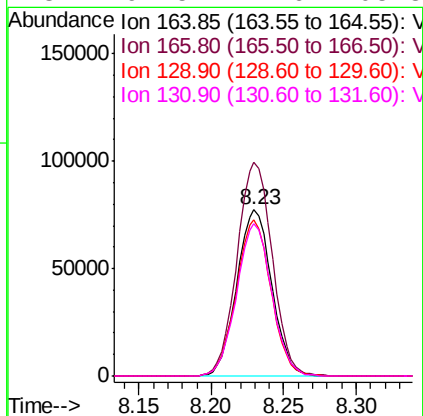
Instrument :
MSVOA_U
ClientSampleId :
RR-RVOA-WS

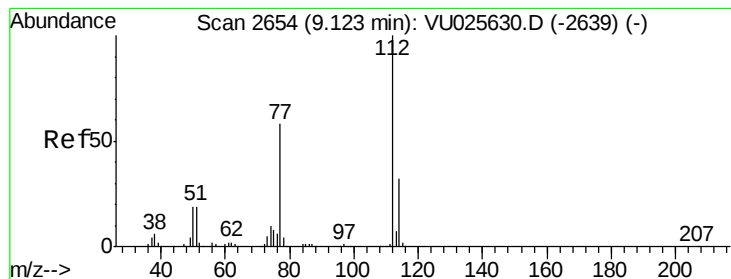
Tot Ion: 95 Resp: 15795
Ion Ratio Lower Upper
95 100
174 92.3 65.6 98.4
176 86.9 62.0 93.0



#58
Tetrachloroethene
Concen: 9.960 ug/l
RT: 8.23 min Scan# 2376
Delta R.T. -0.00 min
Lab File: VU025635.D
Acq: 25 Jul 2018 14:49

Tgt Ion: 164 Resp: 129957
Ion Ratio Lower Upper
164 100
166 128.4 104.1 156.1
129 93.6 76.8 115.2
131 91.5 72.6 108.8





#59

Chlorobenzene

Concen: 14.043 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Instrument :

MSVOA_U

ClientSampleId :

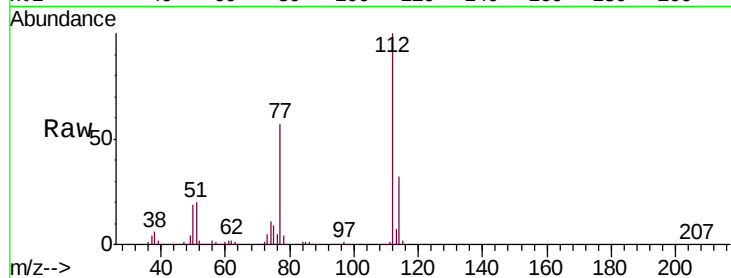
RR-RVOA-WS

Tot Ion:112 Resp: 486330

Ion Ratio Lower Upper

112 100

114 32.2 25.4 38.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

9.12

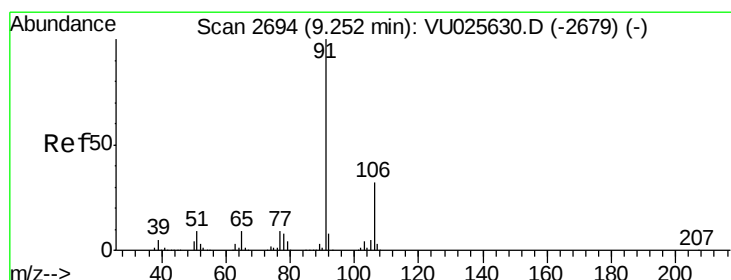
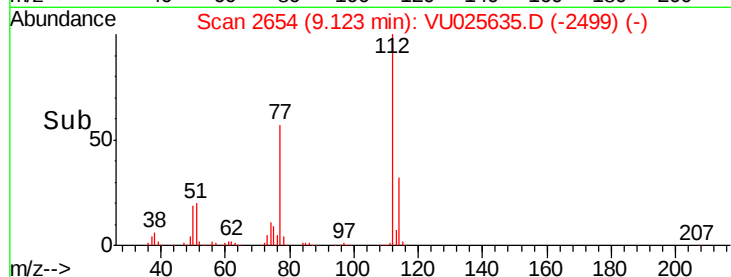
300000

200000

100000

0

Time-->



#63

Ethyl Benzene

Concen: 5.976 ug/l

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU025635.D

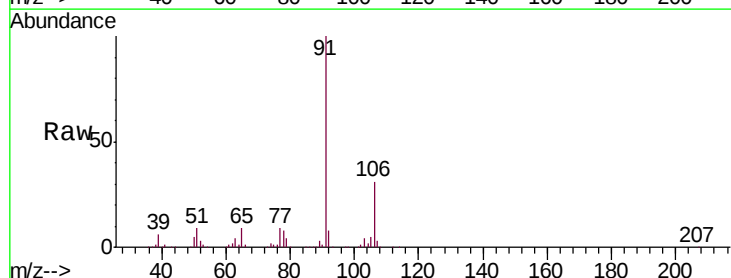
Acq: 25 Jul 2018 14:49

Tgt Ion: 91 Resp: 344264

Ion Ratio Lower Upper

91 100

106 31.3 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 106.00 (105.70 to 106.70): V

9.25

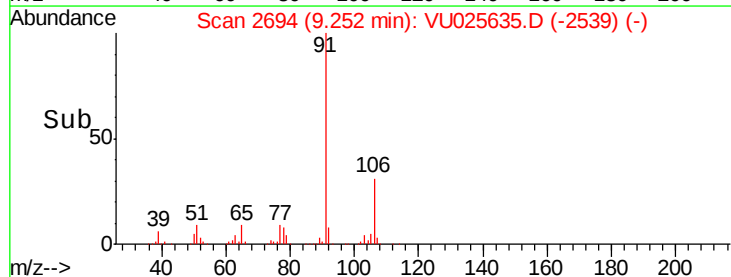
600000

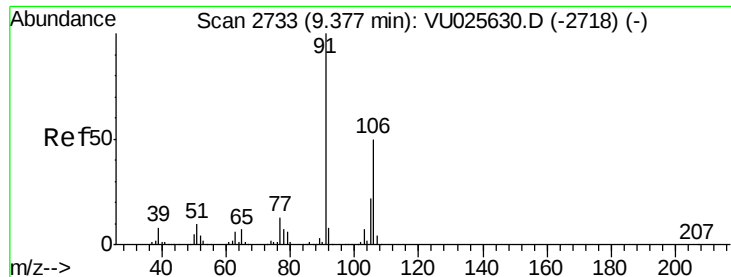
400000

200000

0

Time-->





#64

m/p-Xylenes

Concen: 22.591 ug/l

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU025635.D

Acq: 25 Jul 2018 14:49

Instrument :

MSVOA_U

ClientSampleId :

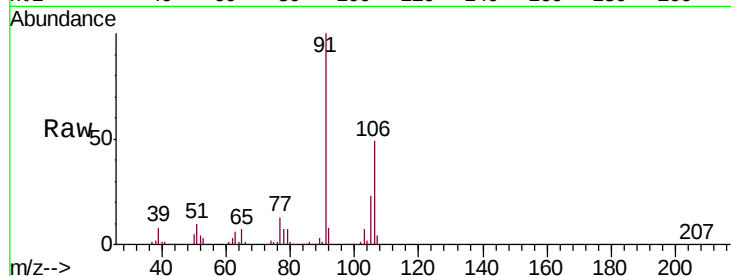
RR-RVOA-WS

Tot Ion:106 Resp: 511522

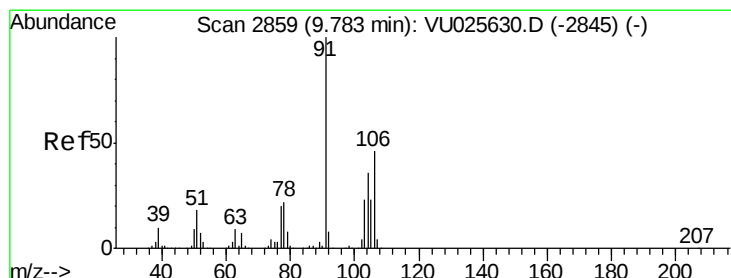
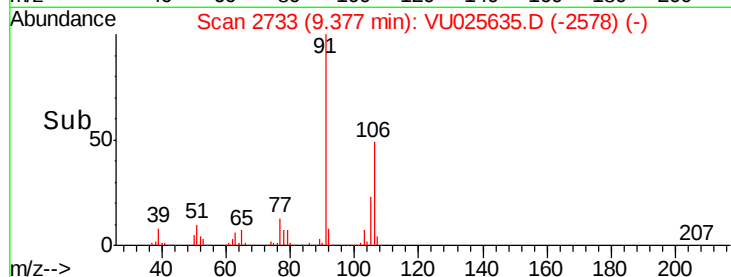
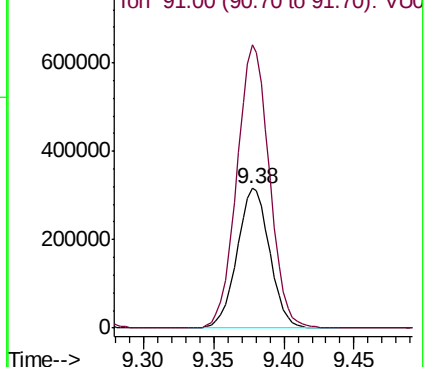
Ion Ratio Lower Upper

106 100

91 201.9 164.1 246.1



Abundance Ion 106.00 (105.70 to 106.70): V



#65

o-Xylene

Concen: 11.475 ug/l

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU025635.D

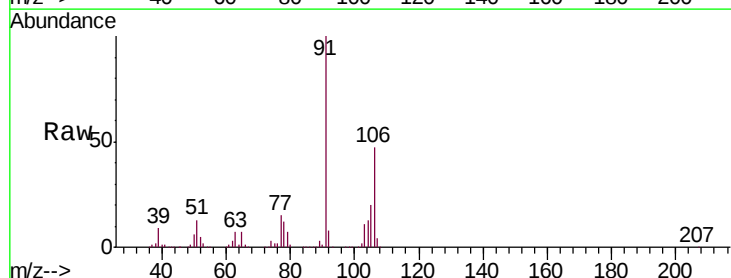
Acq: 25 Jul 2018 14:49

Tgt Ion:106 Resp: 247602

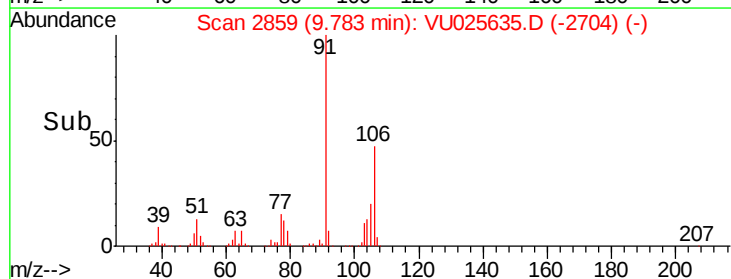
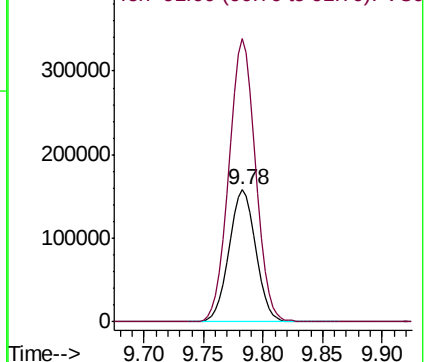
Ion Ratio Lower Upper

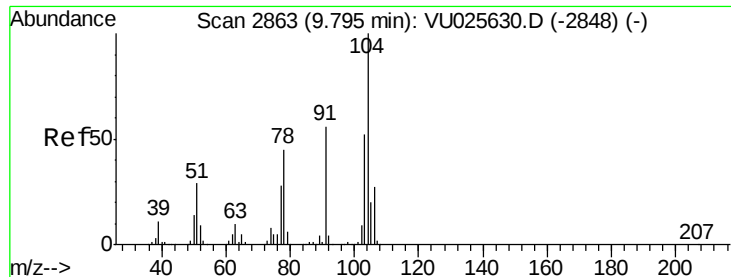
106 100

91 212.6 107.9 323.7



Abundance Ion 106.00 (105.70 to 106.70): V

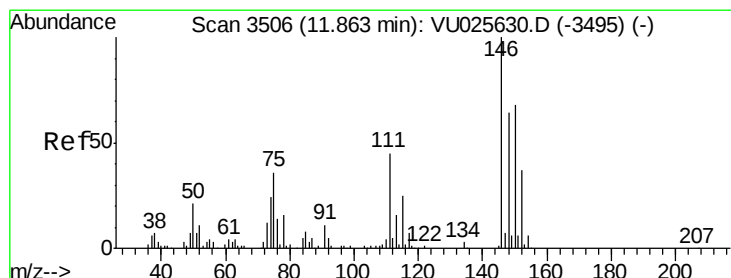
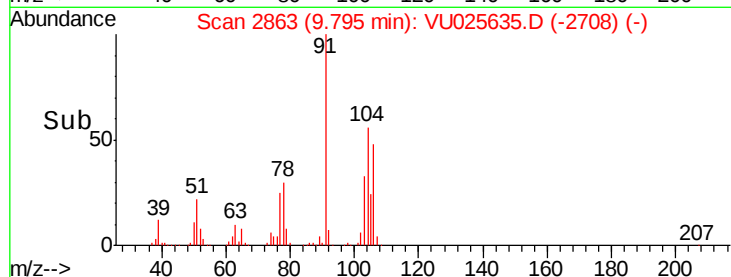
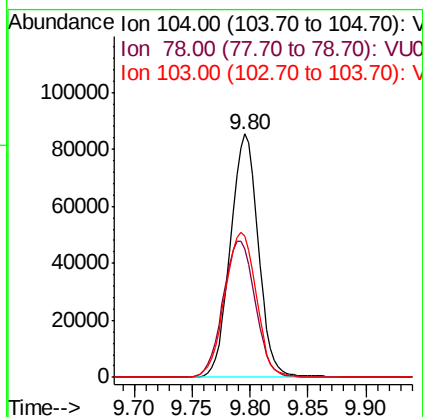
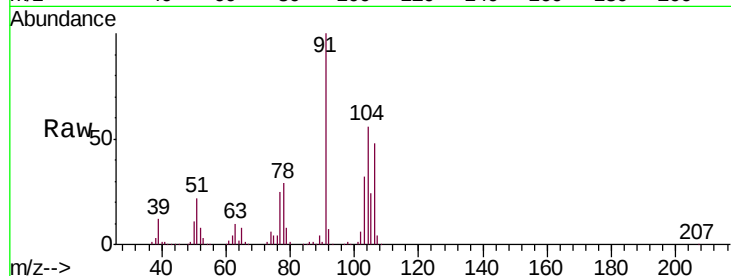




#66
Stvrene
Concen: 3.867 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. -0.00 min
Lab File: VU025635.D
Acq: 25 Jul 2018 14:49

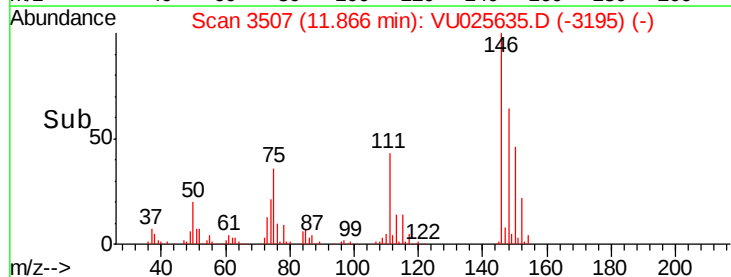
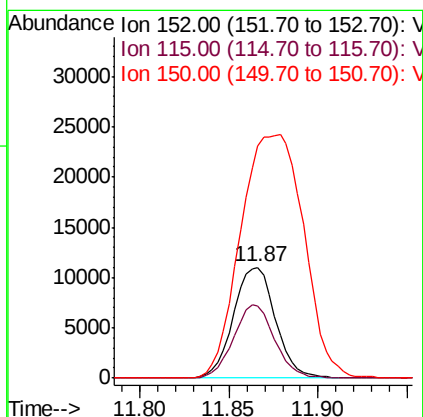
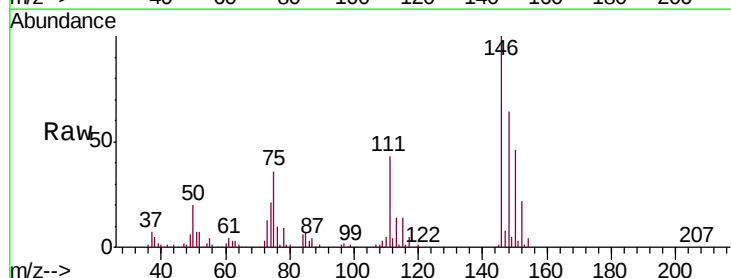
Instrument :
MSVOA_U
ClientSampleId :
RR-RVOA-WS

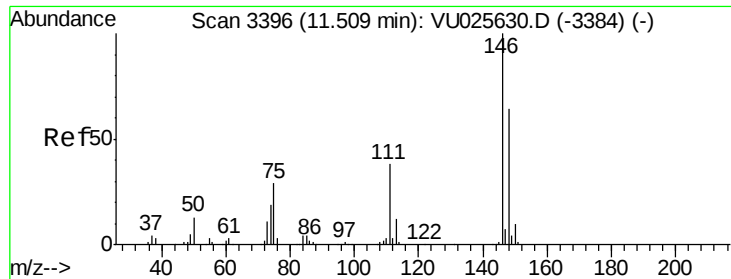
Tot Ion:104 Resp: 141697
Ion Ratio Lower Upper
104 100
78 65.4 40.2 60.2#
103 67.6 44.2 66.4#



#68
1,2-Dichlorobenzene-d4
Concen: N.D. ug/l
RT: 11.87 min Scan# 3507
Delta R.T. 0.00 min
Lab File: VU025635.D
Acq: 25 Jul 2018 14:49

Tgt Ion:152 Resp: 18153
Ion Ratio Lower Upper
152 100
115 64.6 0.0 118.8
150 329.2 0.0 0.0#

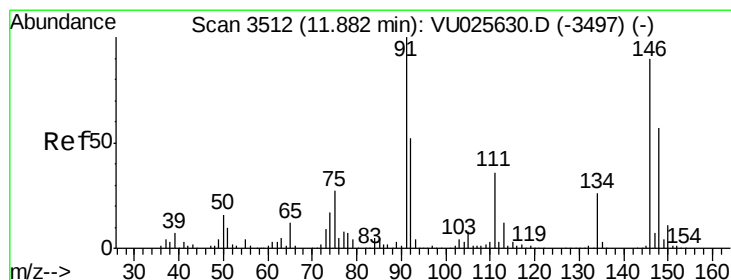
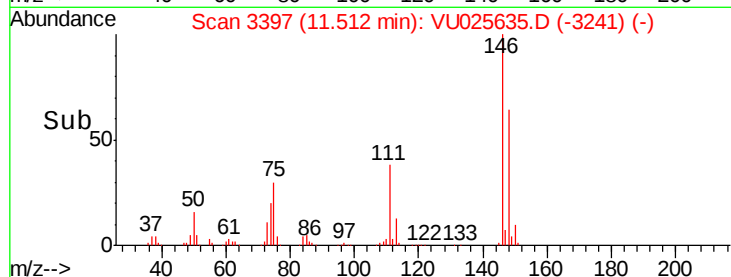
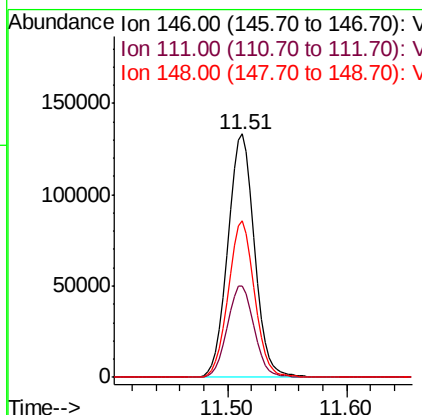
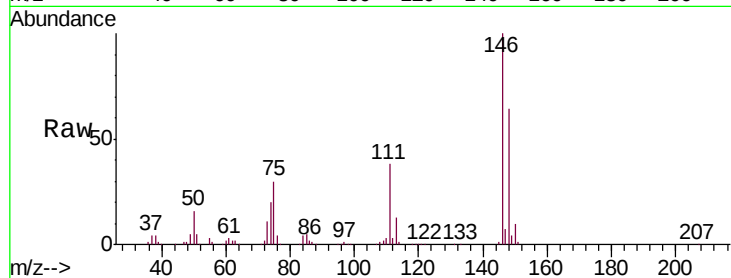




#83
 1,4-Dichlorobenzene
 Concen: 6.813 ug/l
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU025635.D
 Acq: 25 Jul 2018 14:49

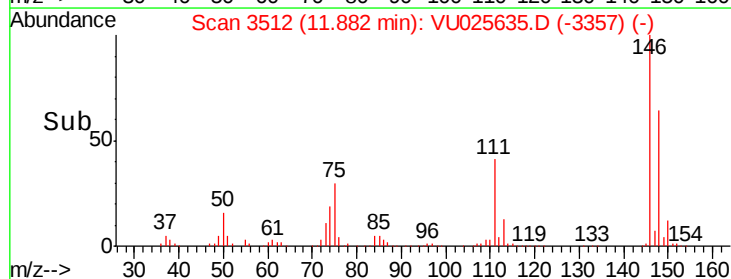
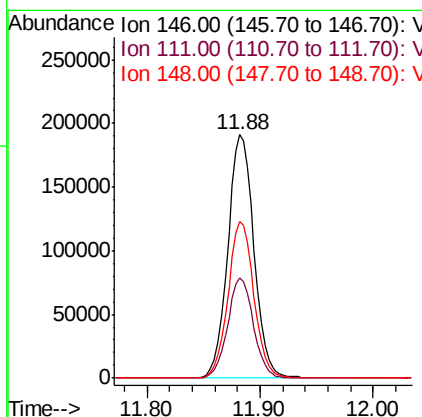
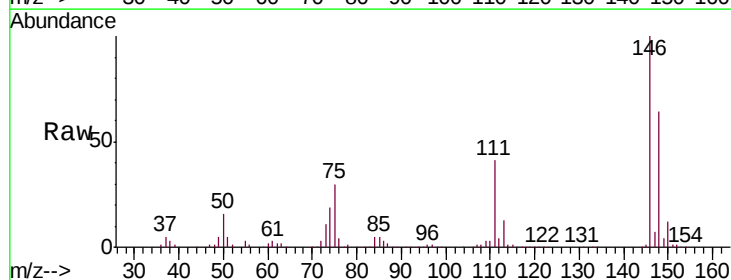
Instrument :
 MSVOA_U
 ClientSampleId :
 RR-RVOA-WS

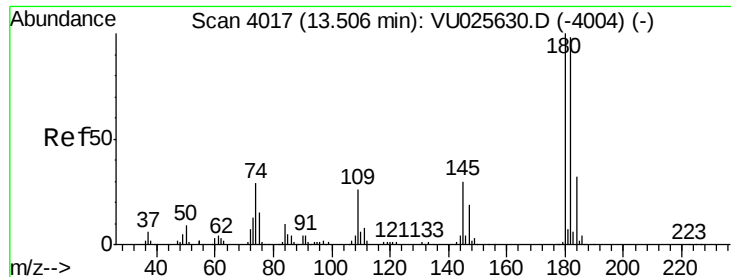
Tot Ion:146 Resp: 206870
 Ion Ratio Lower Upper
 146 100
 111 38.0 30.1 45.1
 148 63.6 50.6 76.0



#85
 1,2-Dichlorobenzene
 Concen: 10.769 ug/l
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU025635.D
 Acq: 25 Jul 2018 14:49

Tgt Ion:146 Resp: 306194
 Ion Ratio Lower Upper
 146 100
 111 40.8 20.7 62.1
 148 63.8 31.9 95.5





#87
 1,2,4-Trichlorobenzene
 Concen: 12.870 ug/l
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU025635.D
 Acq: 25 Jul 2018 14:49

Instrument :
 MSVOA_U
 ClientSampleId :
 RR-RVOA-WS

Tot Ion:180 Resp: 254784
 Ion Ratio Lower Upper
 180 100
 182 96.6 77.1 115.7
 145 29.9 23.3 34.9

