

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082018\
 Data File : VU026212.D
 Acq On : 20 Aug 2018 16:46
 Operator : MD/SY
 Sample : J4045-07DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 21 07:41:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U082018DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Mon Aug 20 13:35:41 2018
 Response via : Initial Calibration

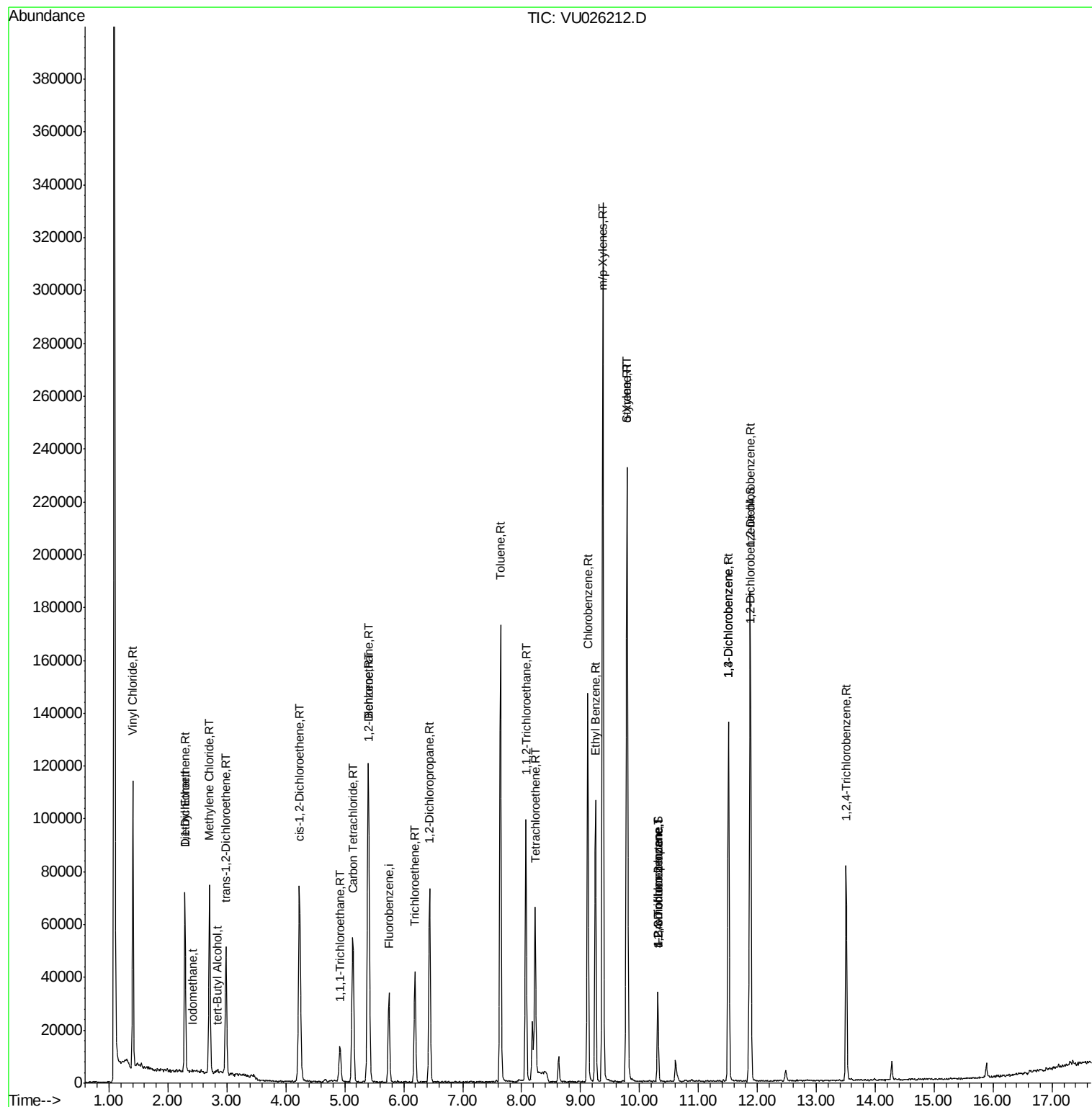
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.75	96	31815	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	10456	0.92	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	11941	0.90	ug/l	0.00
Spiked Amount 1.000			Recovery	=	90.00%	
Target Compounds					Ovalue	
4) Vinyl Chloride	1.40	62	64901	6.144	ug/l	97
9) 1,1-Dichloroethene	2.29	96	20760	2.809	ug/l	94
10) Iodomethane	2.41	142	151	0.247	ug/l #	78
13) Acetone	2.32	43	1100	Below Cal	#	88
15) Methylene Chloride	2.70	84	29195	3.487	ug/l	93
16) trans-1,2-Dichloroethene	2.98	96	18492	2.163	ug/l	94
22) cis-1,2-Dichloroethene	4.23	96	37234	3.589	ug/l	83
23) Diethyl Ether	2.29	59	1380	0.244	ug/l #	17
24) tert-Butyl Alcohol	2.84	59	464	0.801	ug/l #	87
28) 1,1,1-Trichloroethane	4.92	97	10806	0.672	ug/l	97
30) Carbon Tetrachloride	5.14	117	40126	2.646	ug/l	99
35) Benzene	5.39	78	92912	2.534	ug/l	98
36) 1,2-Dichloroethane	5.41	62	45753	4.026	ug/l	99
37) Trichloroethene	6.19	130	15295	1.483	ug/l	95
38) 1,2-Dichloropropane	6.44	63	27878	2.936	ug/l	99
46) t-1,4-Dichloro-2-butene	10.31	75	6033	2.771	ug/l #	12
49) Toluene	7.64	92	70515	3.369	ug/l	93
52) 1,1,2-Trichloroethane	8.07	97	30893	4.515	ug/l	94
58) Tetrachloroethene	8.23	164	14142	1.450	ug/l	94
59) Chlorobenzene	9.12	112	80353	3.314	ug/l	99
63) Ethyl Benzene	9.25	91	69765	1.813	ug/l	100
64) m/p-Xylenes	9.38	106	91644	5.967	ug/l	96
65) o-Xylene	9.78	106	43389	2.963	ug/l	99
66) Styrene	9.80	104	56622	2.259	ug/l	96
71) 1,2,3-Trichloropropane	10.31	75	6033	0.982	ug/l #	44
82) 1,3-Dichlorobenzene	11.51	146	57068	2.501	ug/l	98
83) 1,4-Dichlorobenzene	11.51	146	57068	2.505	ug/l	99
85) 1,2-Dichlorobenzene	11.88	146	73375	3.502	ug/l	99
87) 1,2,4-Trichlorobenzene	13.51	180	26147	1.774	ug/l	98
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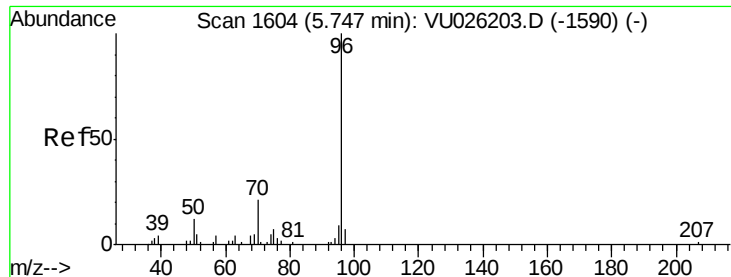
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU082018\
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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Aug 20 13:35:41 2018
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.75 min Scan# 1604

Delta R.T. -0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 96 Resp: 31815

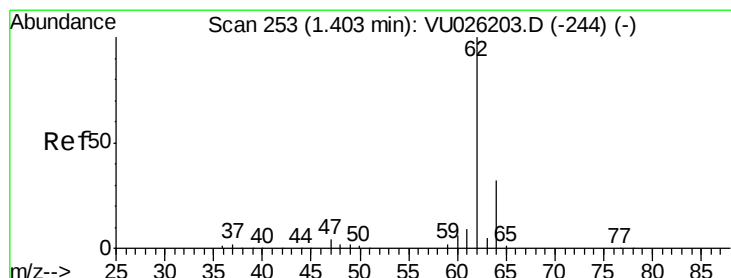
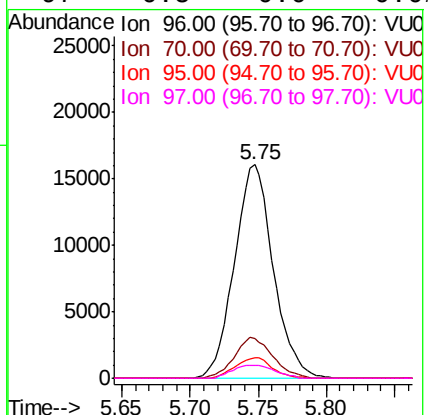
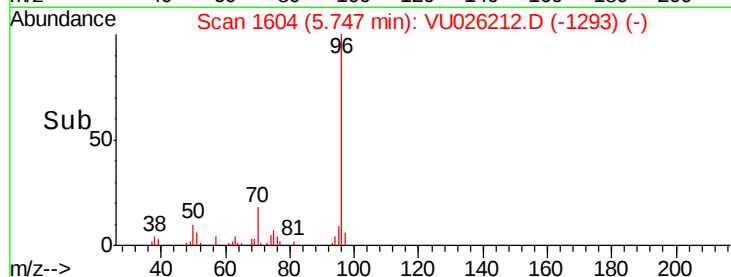
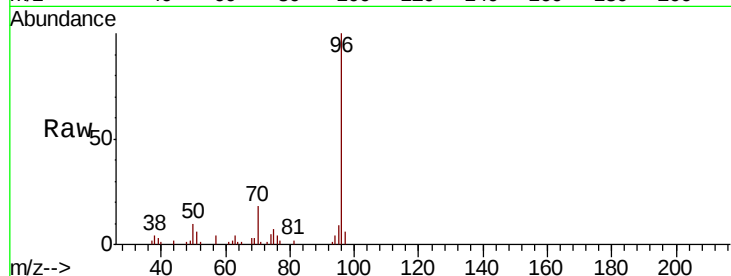
Ion Ratio Lower Upper

96 100

70 18.9 16.2 24.4

95 9.1 6.9 10.3

97 6.5 0.0 0.0#



#4

Vinyl Chloride

Concen: 6.144 ug/l

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026212.D

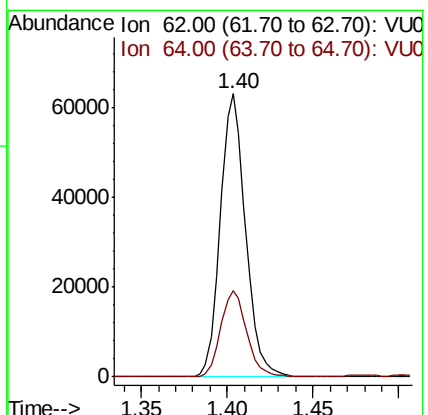
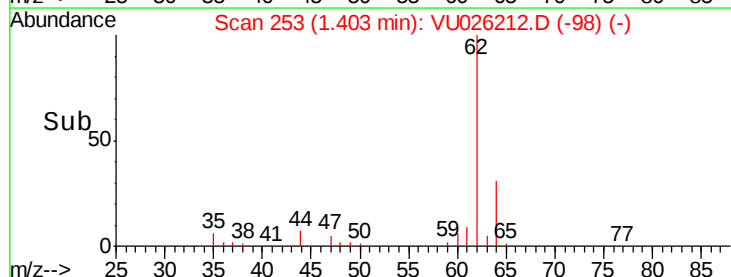
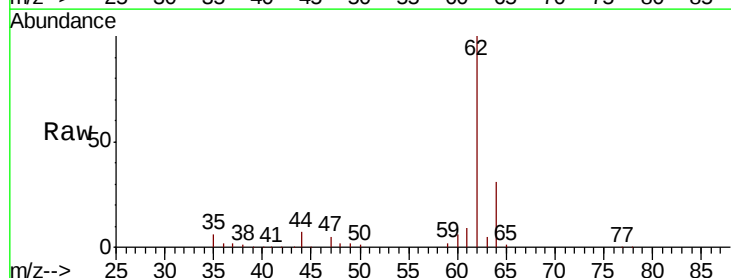
Acq: 20 Aug 2018 16:46

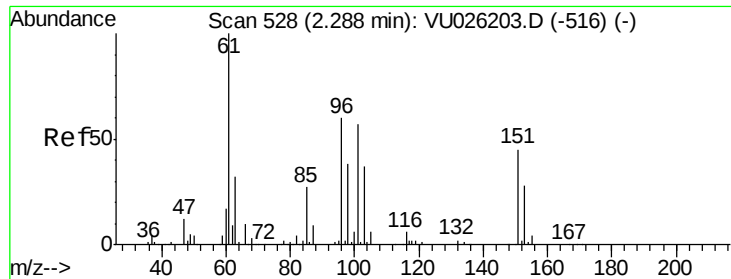
Tgt Ion: 62 Resp: 64901

Ion Ratio Lower Upper

62 100

64 30.7 25.8 38.8

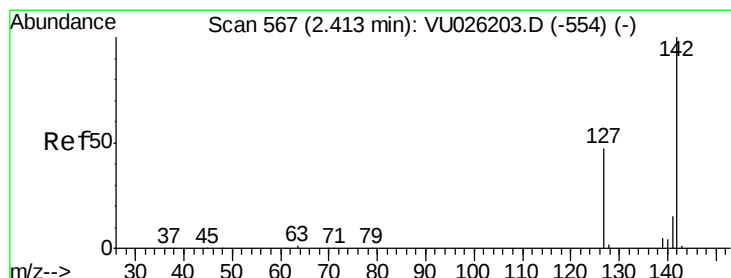
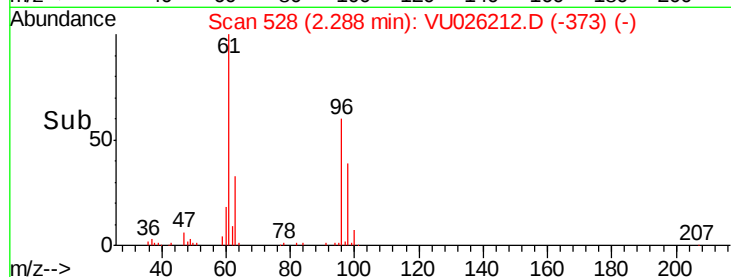
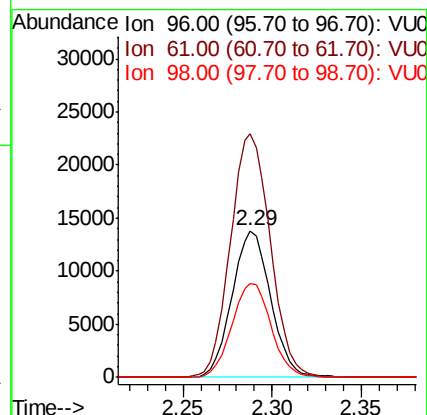
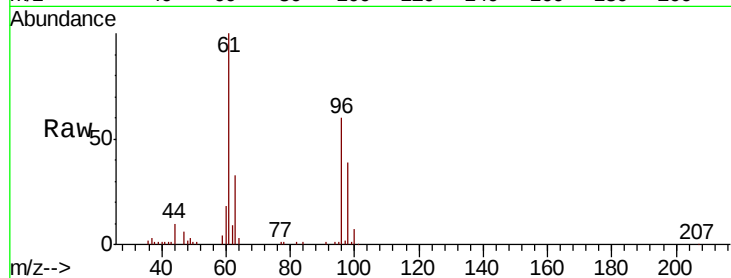




#9
 1,1-Dichloroethene
 Concen: 2.809 ug/l
 RT: 2.29 min Scan# 528
 Delta R.T. -0.00 min
 Lab File: VU026212.D
 Acq: 20 Aug 2018 16:46

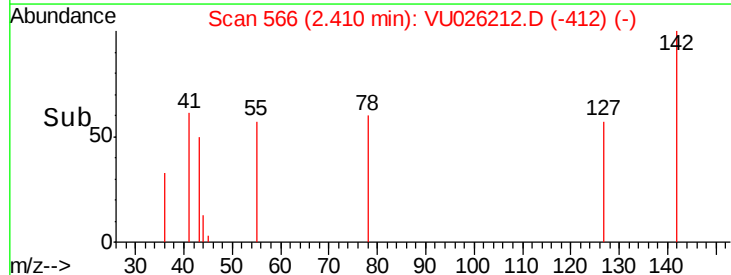
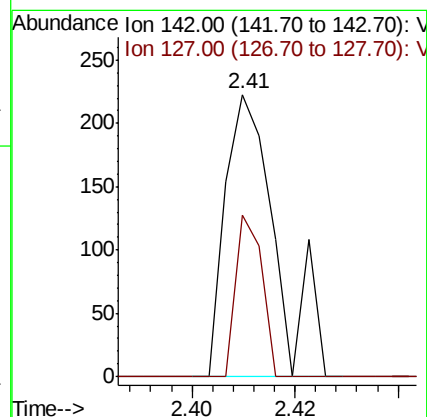
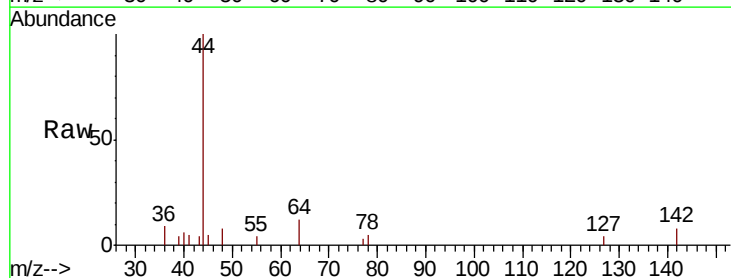
Instrument :
 MSVOA_U
 ClientSampleId :

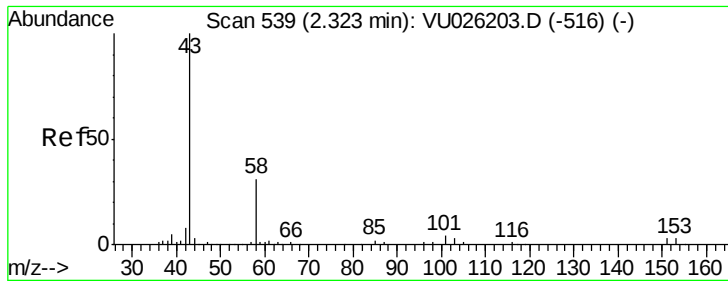
Tot Ion	Ratio	Lower	Upper
96	100		
61	165.7	0.0	526.5
98	64.1	0.0	123.4



#10
 Iodomethane
 Concen: 0.247 ug/l
 RT: 2.41 min Scan# 566
 Delta R.T. -0.00 min
 Lab File: VU026212.D
 Acq: 20 Aug 2018 16:46

Tgt Ion	Ratio	Lower	Upper
142	100		
127	29.1	34.5	51.7#





#13

Acetone

Concen: Below Cal

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Instrument :

MSVOA_U

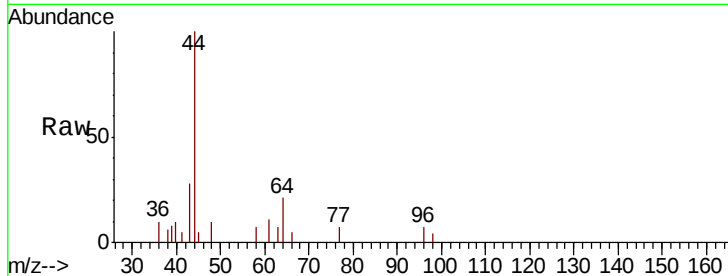
ClientSampleId :

Tot Ion: 43 Resp: 1100

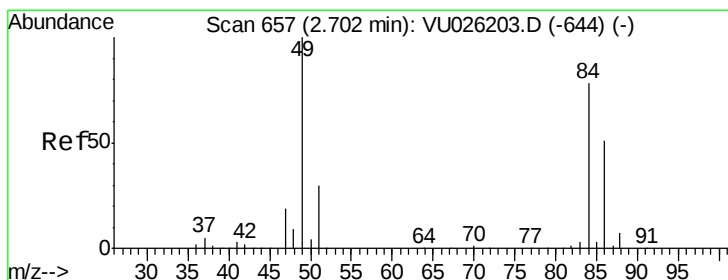
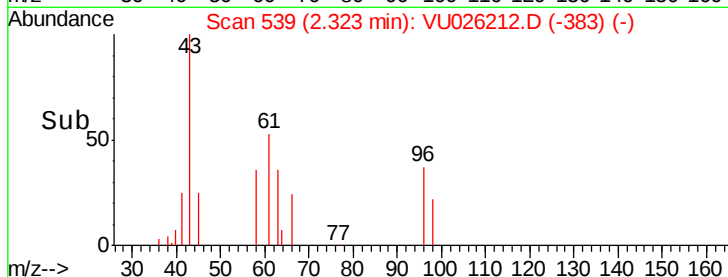
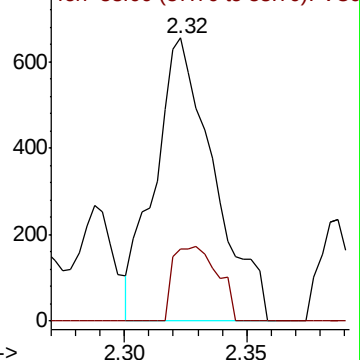
Ion Ratio Lower Upper

43 100

58 25.6 26.0 39.0#



Abundance Ion 43.00 (42.70 to 43.70): VU026212.D (-516) (-)



#15

Methylene Chloride

Concen: 3.487 ug/l

RT: 2.70 min Scan# 657

Delta R.T. 0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Tgt Ion: 84 Resp: 29195

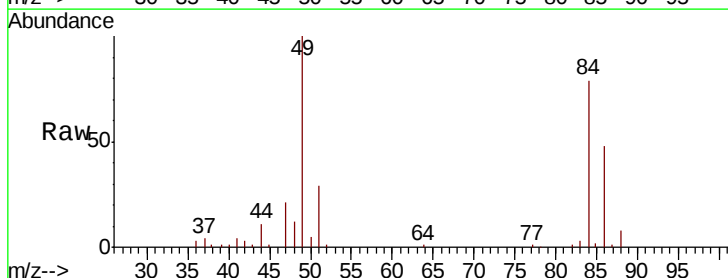
Ion Ratio Lower Upper

84 100

49 126.3 108.7 163.1

51 36.6 0.0 82.4

86 60.3 50.7 76.1

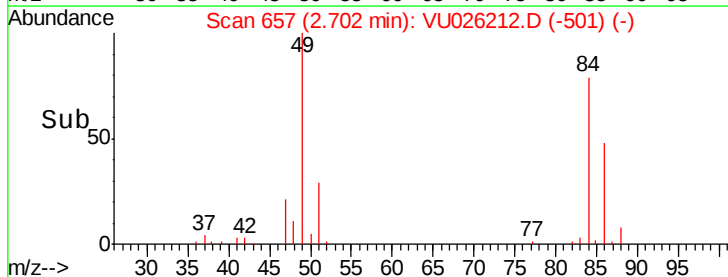
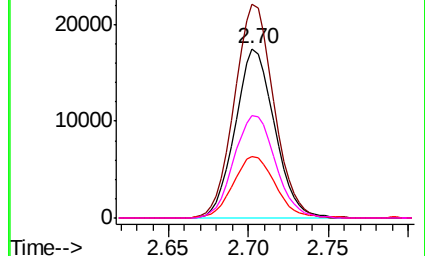


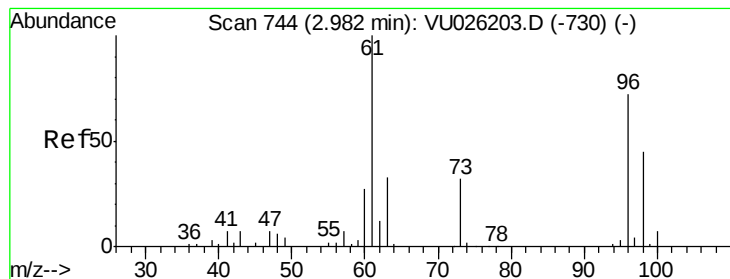
Abundance Ion 84.00 (83.70 to 84.70): VU026212.D (-644) (-)

Ion 49.00 (48.70 to 49.70): VU026212.D (-644) (-)

Ion 51.00 (50.70 to 51.70): VU026212.D (-644) (-)

Ion 86.00 (85.70 to 86.70): VU026212.D (-644) (-)





#16

trans-1,2-Dichloroethene

Concen: 2.163 ug/l

RT: 2.98 min Scan# 744

Delta R.T. -0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

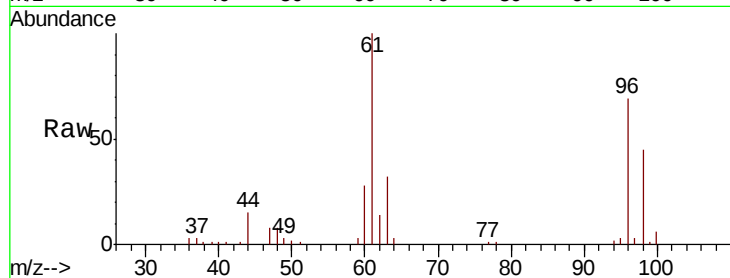
Tot Ion: 96 Resp: 18492

Ion Ratio Lower Upper

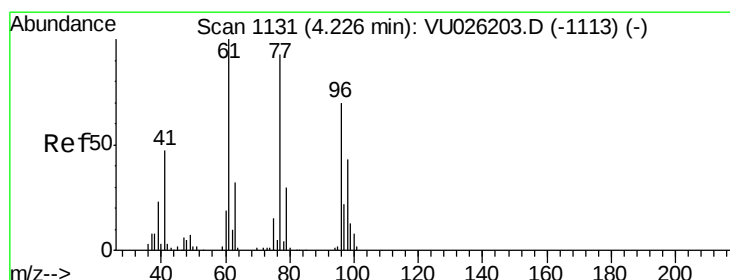
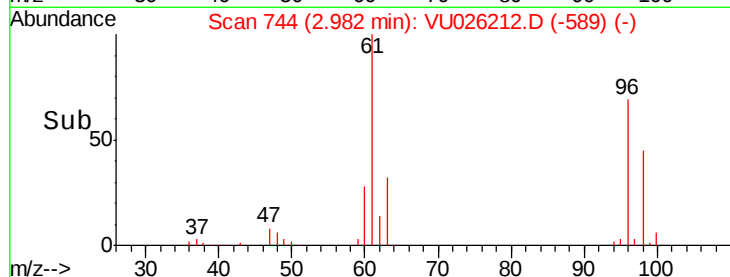
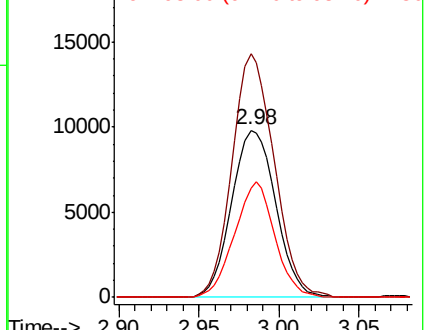
96 100

61 145.9 123.9 185.9

98 65.7 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: 3.589 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

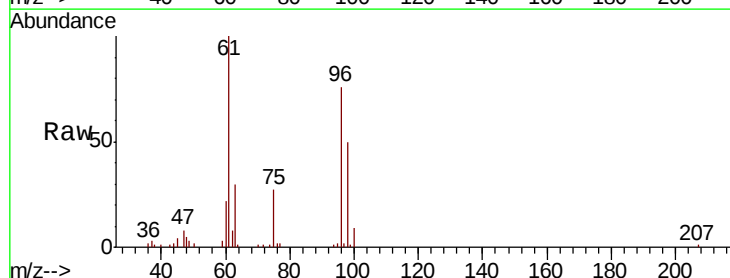
Tgt Ion: 96 Resp: 37234

Ion Ratio Lower Upper

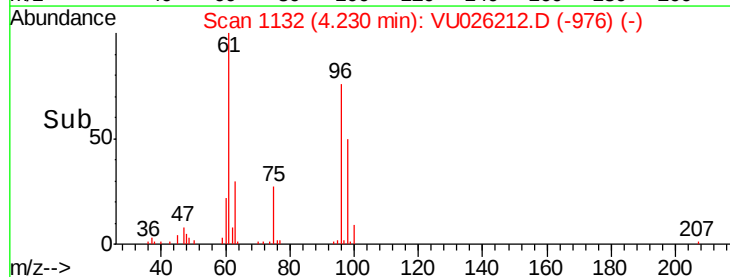
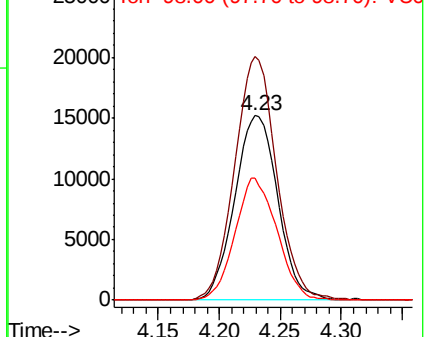
96 100

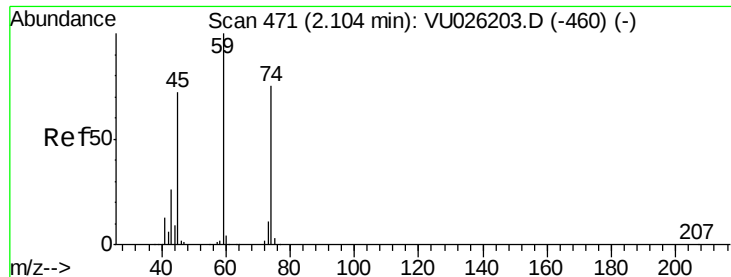
61 128.1 0.0 400.5

98 64.4 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

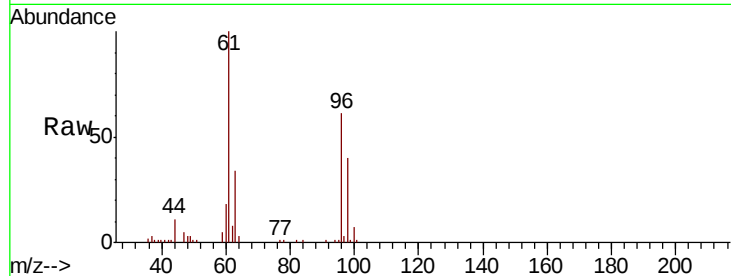




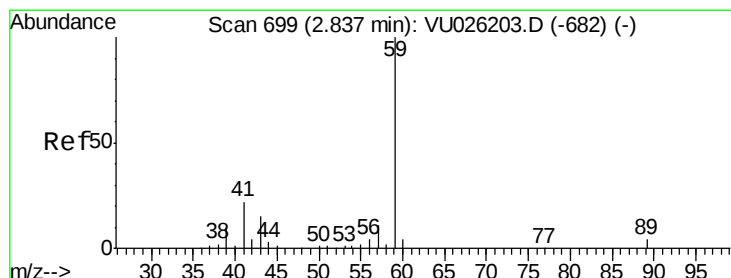
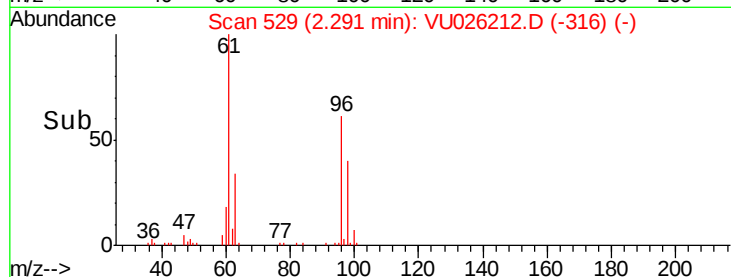
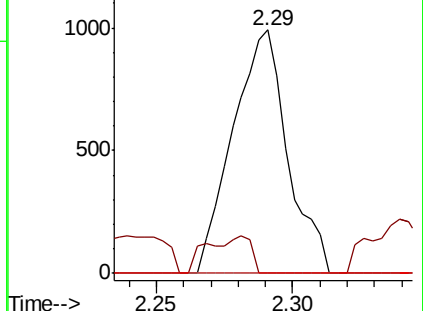
#23
Diethyl Ether
Concen: 0.244 ug/l
RT: 2.29 min Scan# 529
Delta R.T. 0.19 min
Lab File: VU026212.D
Acq: 20 Aug 2018 16:46

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	59	Resp	1380
Ion	Ratio	Lower	Upper
59	100		
45	5.9	60.0	90.0#
74	0.0	56.5	84.7#

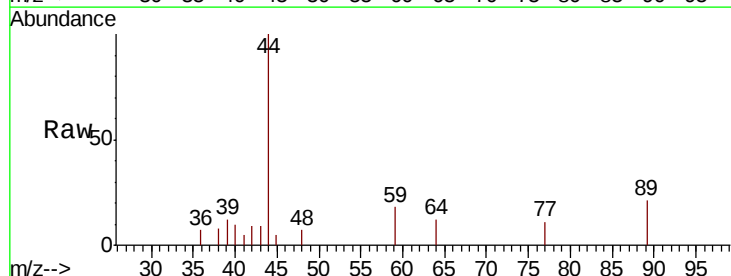


Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 45.00 (44.70 to 45.70): VU0
Ion 74.00 (73.70 to 74.70): VU0

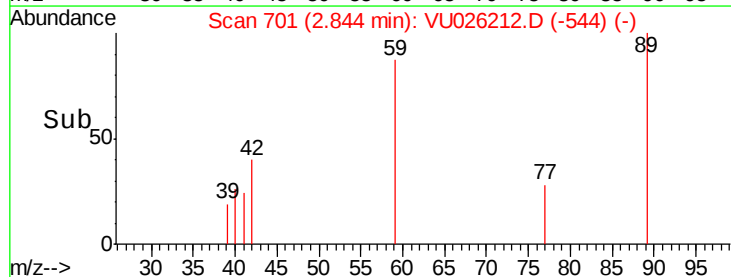
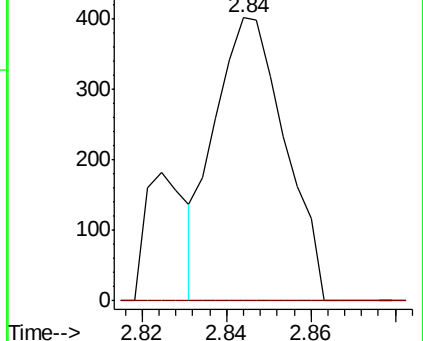


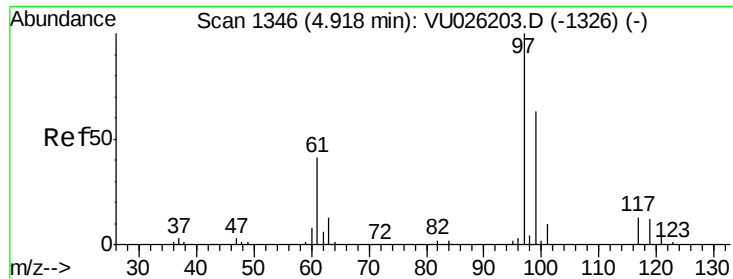
#24
tert-Butyl Alcohol
Concen: 0.801 ug/l
RT: 2.84 min Scan# 701
Delta R.T. 0.01 min
Lab File: VU026212.D
Acq: 20 Aug 2018 16:46

Tgt Ion	59	Resp	464
Ion	Ratio	Lower	Upper
59	100		
57	0.0	3.4	5.2#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

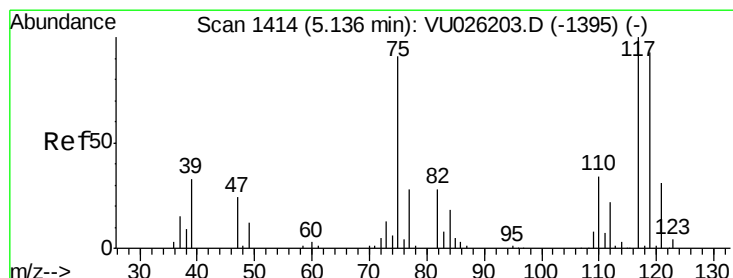
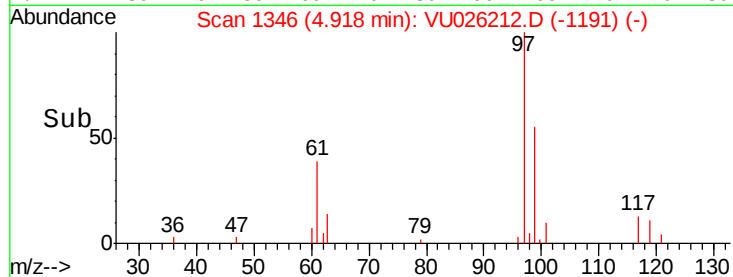
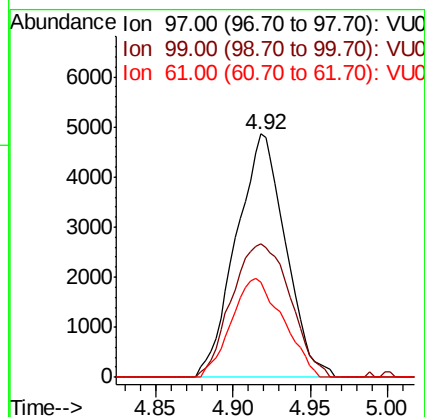
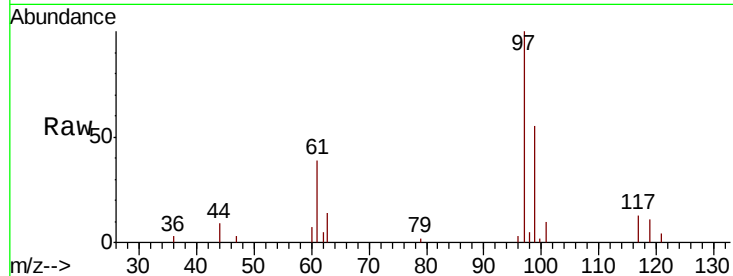




#28
 1,1,1-Trichloroethane
 Concen: 0.672 ug/l
 RT: 4.92 min Scan# 1346
 Delta R.T. -0.00 min
 Lab File: VU026212.D
 Acq: 20 Aug 2018 16:46

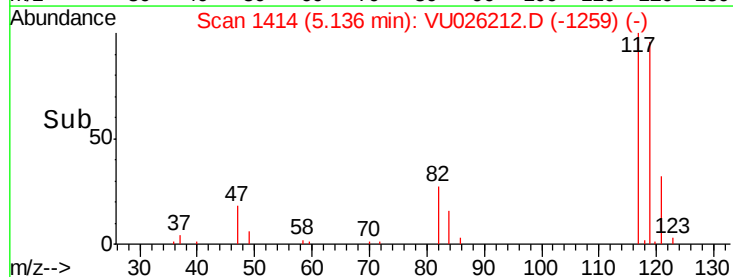
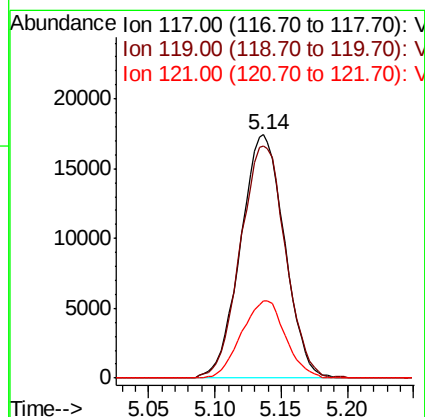
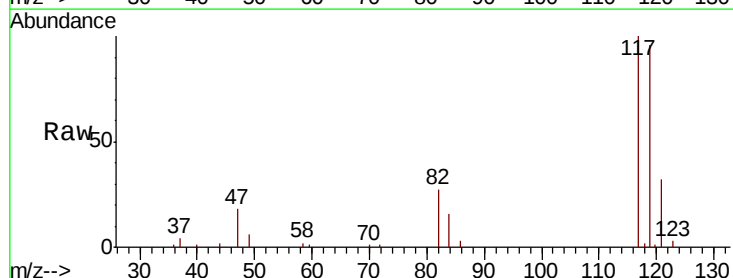
Instrument :
 MSVOA_U
 ClientSampleId :

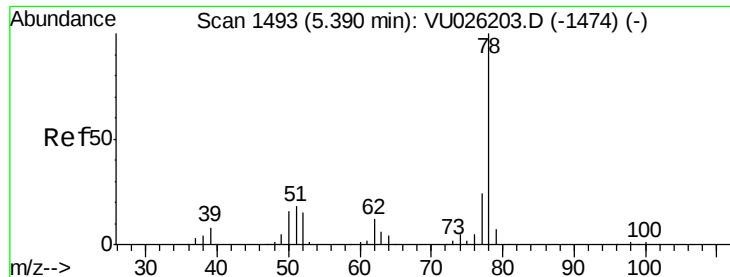
Tot Ion: 97 Resp: 10806
 Ion Ratio Lower Upper
 97 100
 99 64.9 32.3 96.9
 61 42.3 23.2 69.5



#30
 Carbon Tetrachloride
 Concen: 2.646 ug/l
 RT: 5.14 min Scan# 1414
 Delta R.T. -0.00 min
 Lab File: VU026212.D
 Acq: 20 Aug 2018 16:46

Tgt Ion: 117 Resp: 40126
 Ion Ratio Lower Upper
 117 100
 119 95.6 77.3 115.9
 121 31.8 24.5 36.7





#35

Benzene

Concen: 2.534 ug/l

RT: 5.39 min Scan# 1494

Delta R.T. 0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

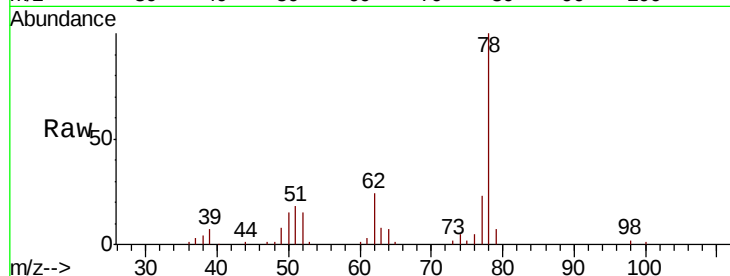
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 78 Resp: 92912

Ion Ratio Lower Upper

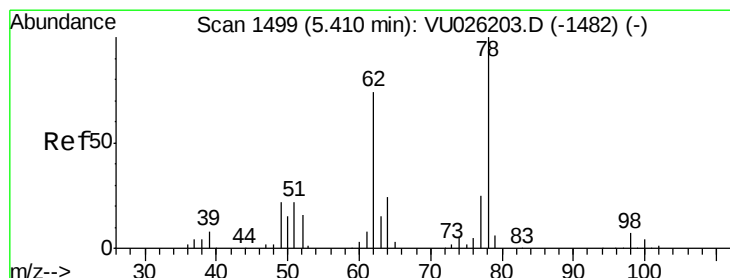
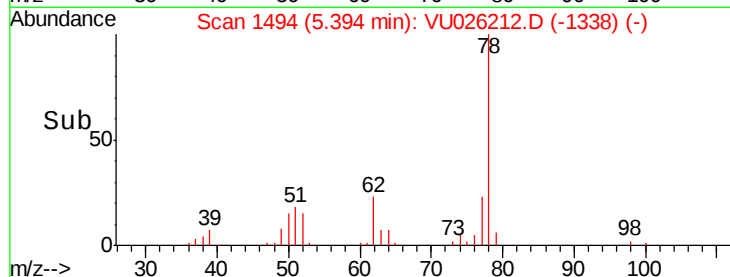
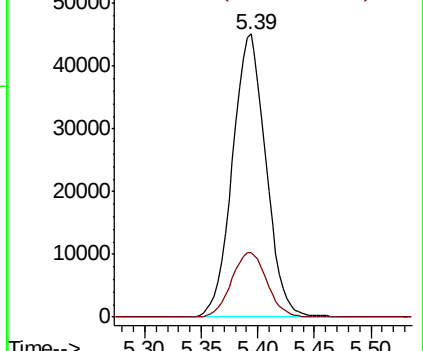
78 100

77 22.7 19.1 28.7



Abundance Ion 78.10 (77.80 to 78.80): VU0

Ion 77.00 (76.70 to 77.70): VU0



#36

1,2-Dichloroethane

Concen: 4.026 ug/l

RT: 5.41 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VU026212.D

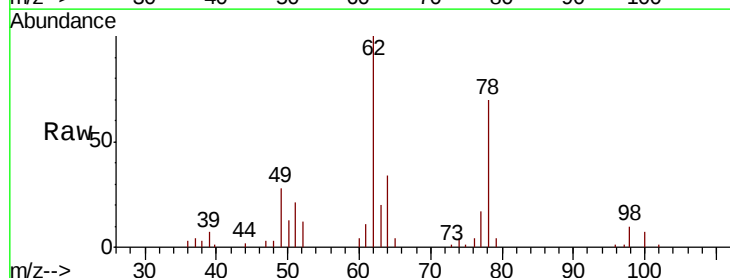
Acq: 20 Aug 2018 16:46

Tgt Ion: 62 Resp: 45753

Ion Ratio Lower Upper

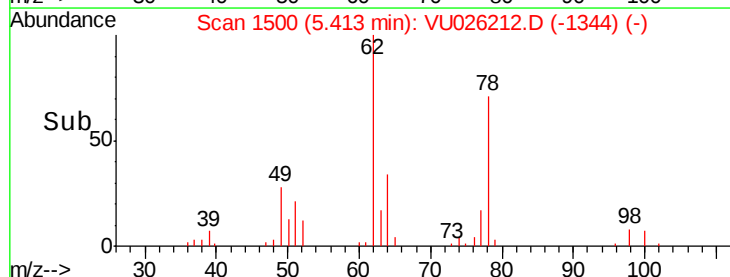
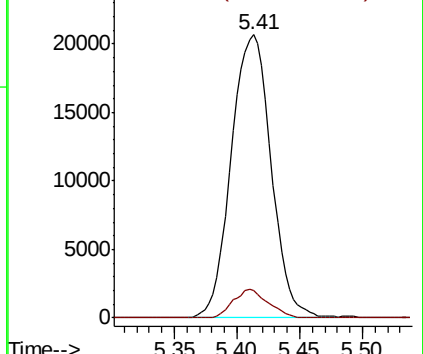
62 100

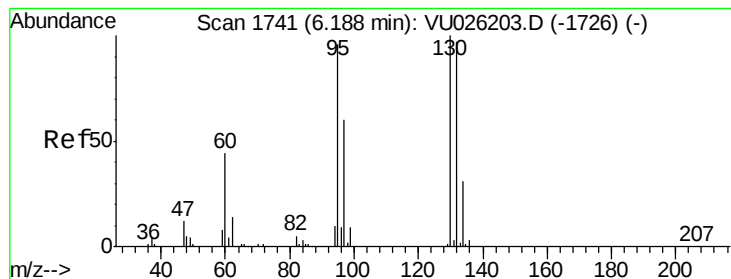
98 8.7 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

Trichloroethene

Concen: 1.483 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Instrument :

MSVOA_U

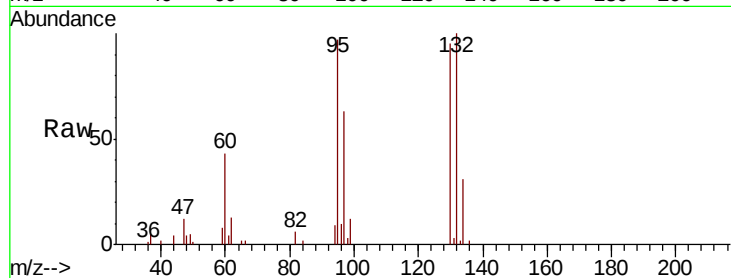
ClientSampleId :

Tot Ion:130 Resp: 15295

Ion Ratio Lower Upper

130 100

95 102.2 77.9 116.9



Abundance Ion 129.90 (129.60 to 130.60): VU026212.D (-1586) (-)

Ion 94.90 (94.60 to 95.60): VU026212.D (-1586) (-)

6.19

8000

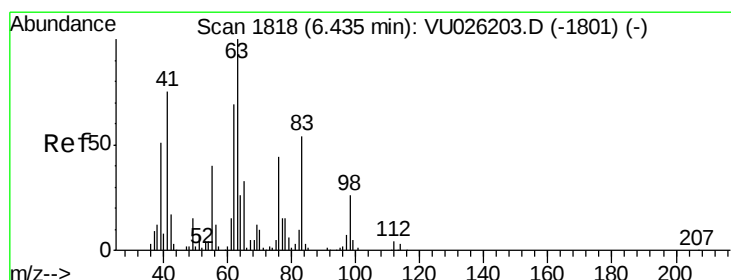
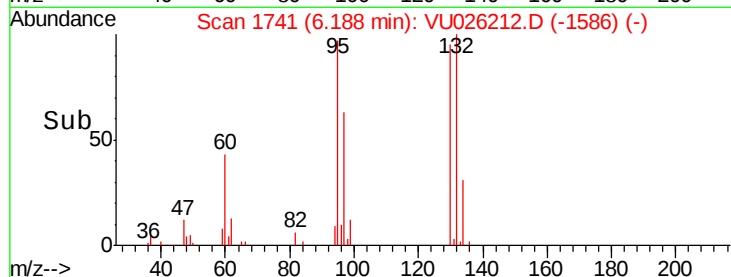
6000

4000

2000

0

Time-->



#38

1,2-Dichloropropane

Concen: 2.936 ug/l

RT: 6.44 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VU026212.D

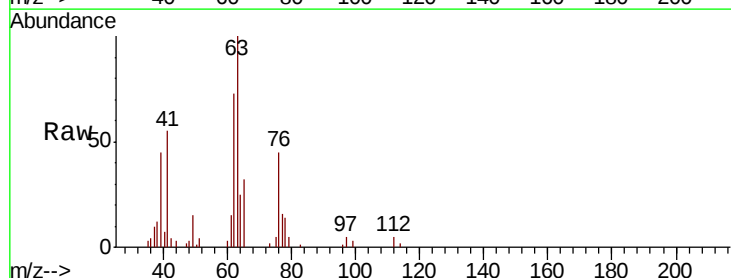
Acq: 20 Aug 2018 16:46

Tgt Ion: 63 Resp: 27878

Ion Ratio Lower Upper

63 100

65 31.9 25.8 38.8



Abundance Ion 63.00 (62.70 to 63.70): VU026212.D (-1663) (-)

Ion 65.00 (64.70 to 65.70): VU026212.D (-1663) (-)

6.44

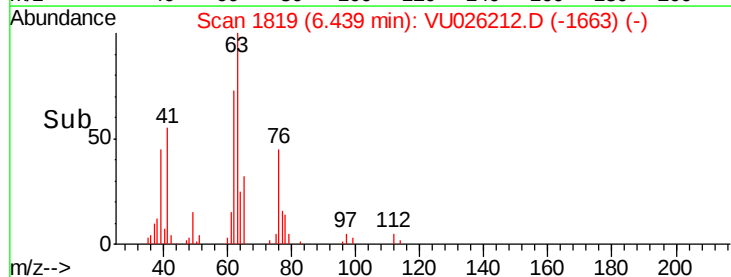
15000

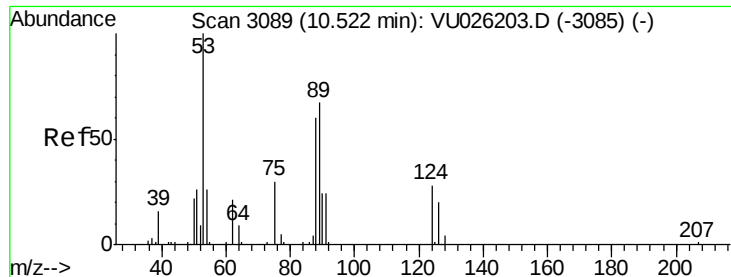
10000

5000

0

Time-->

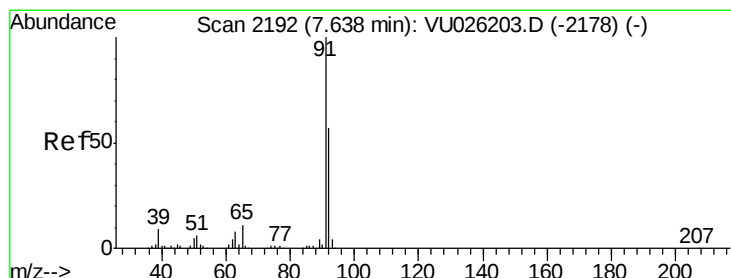
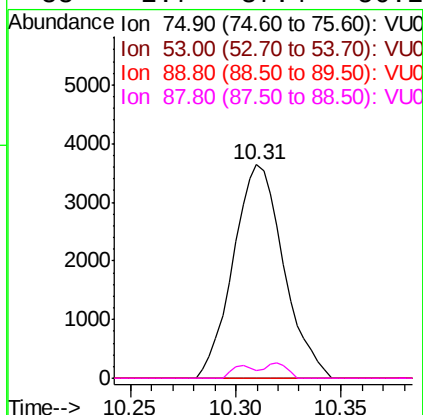
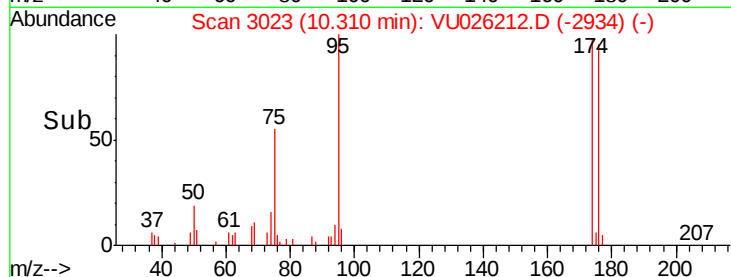
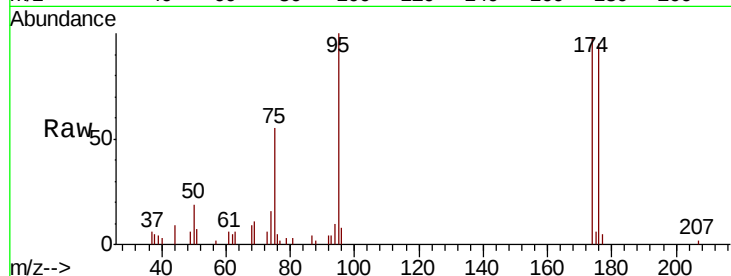




#46
t-1,4-Dichloro-2-butene
Concen: 2.771 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.21 min
Lab File: VU026212.D
Acq: 20 Aug 2018 16:46

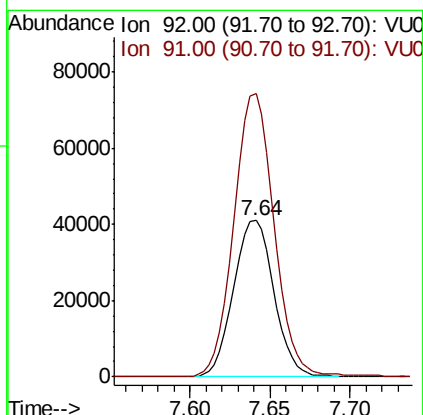
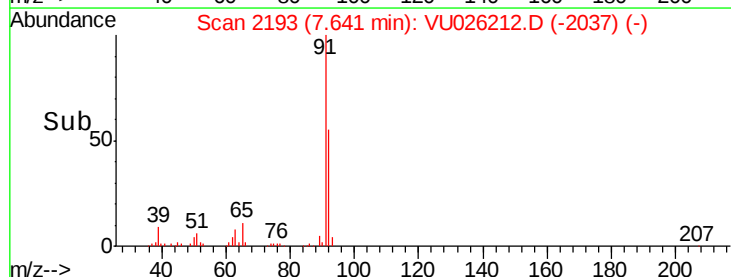
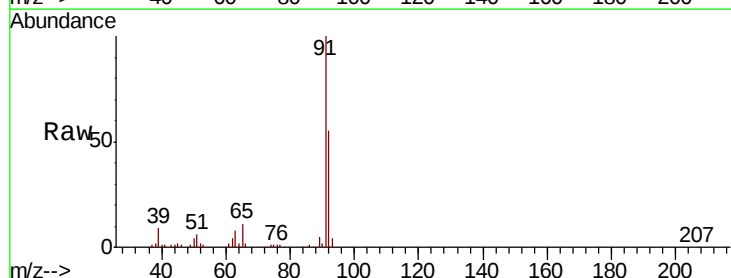
Instrument :
MSVOA_U
ClientSampleId :

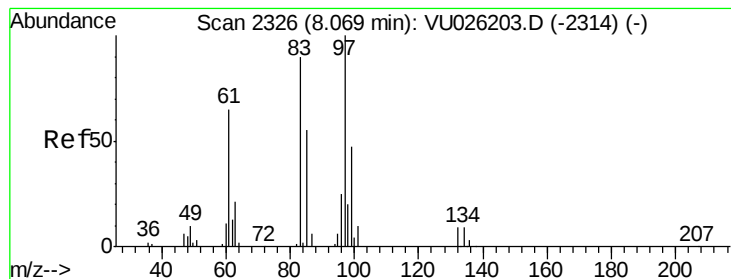
Tot Ion: 75 Resp: 6033
Ion Ratio Lower Upper
75 100
53 0.0 82.2 123.4#
89 0.0 51.3 76.9#
88 2.7 37.4 56.2#



#49
Toluene
Concen: 3.369 ug/l
RT: 7.64 min Scan# 2193
Delta R.T. 0.00 min
Lab File: VU026212.D
Acq: 20 Aug 2018 16:46

Tgt Ion: 92 Resp: 70515
Ion Ratio Lower Upper
92 100
91 181.1 137.1 205.7





#52

1,1,2-Trichloroethane

Concen: 4.515 ug/l

RT: 8.07 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 30893

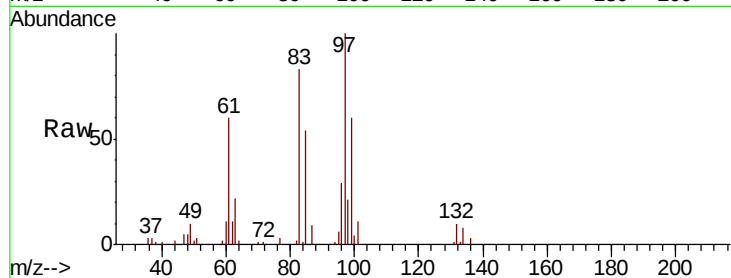
Ion Ratio Lower Upper

97 100

83 83.4 72.6 109.0

85 53.7 47.2 70.8

99 60.3 50.8 76.2

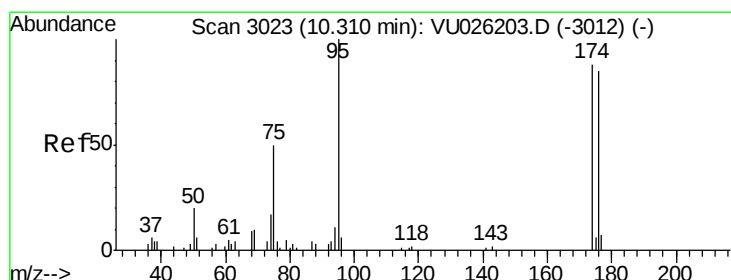
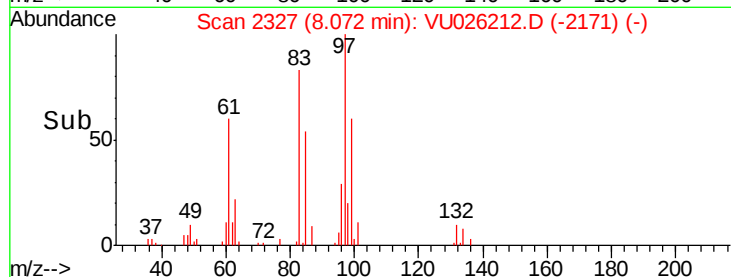
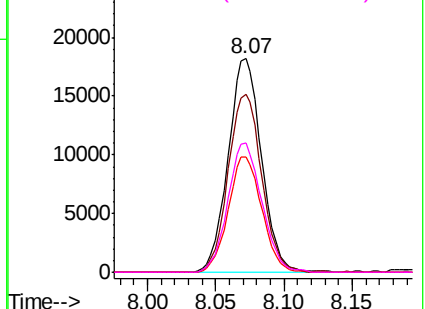


Abundance Ion 97.00 (96.70 to 97.70): VU0

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



#57

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

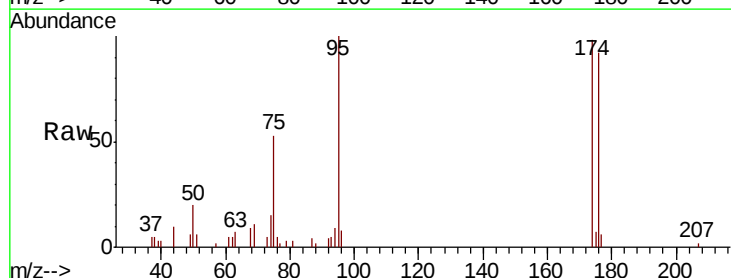
Tgt Ion: 95 Resp: 10456

Ion Ratio Lower Upper

95 100

174 100.4 65.6 98.4#

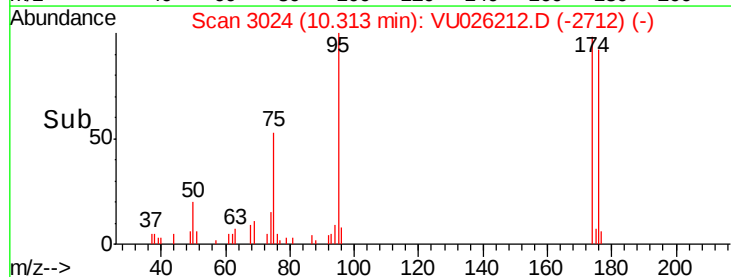
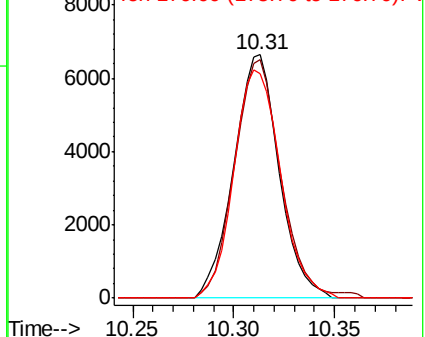
176 96.8 62.0 93.0#

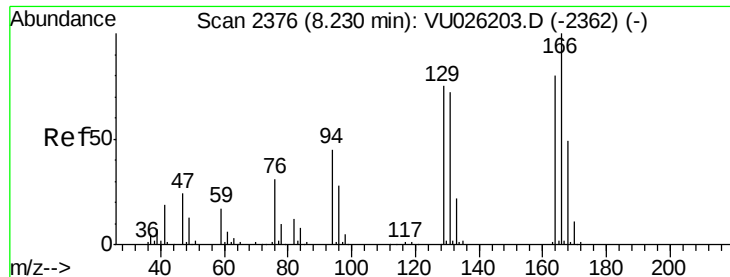


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#58

Tetrachloroethene

Concen: 1.450 ug/l

RT: 8.23 min Scan# 2375

Delta R.T. -0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:164 Resp: 14142

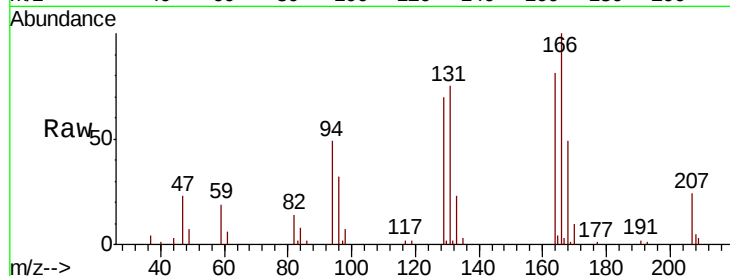
Ion Ratio Lower Upper

164 100

166 123.6 104.1 156.1

129 86.6 76.8 115.2

131 93.3 72.6 108.8



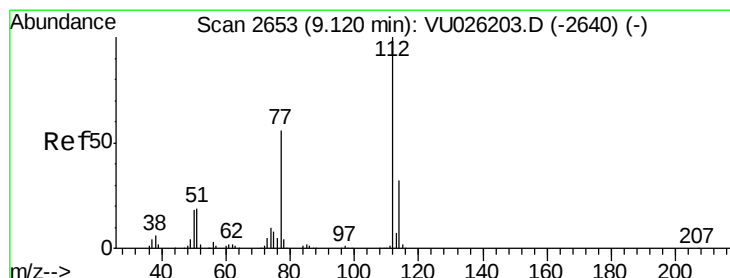
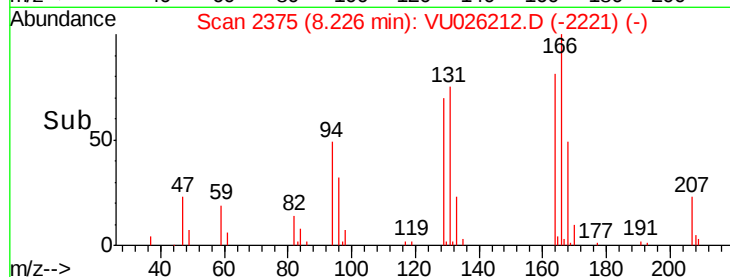
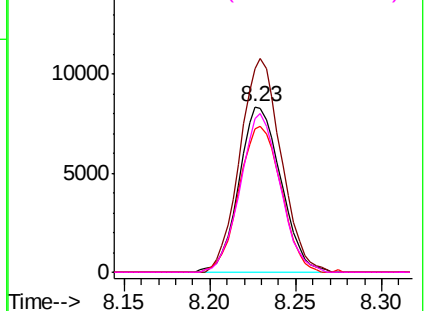
Abundance

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



#59

Chlorobenzene

Concen: 3.314 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU026212.D

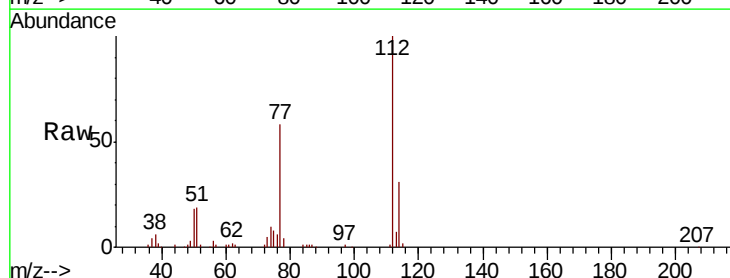
Acq: 20 Aug 2018 16:46

Tgt Ion:112 Resp: 80353

Ion Ratio Lower Upper

112 100

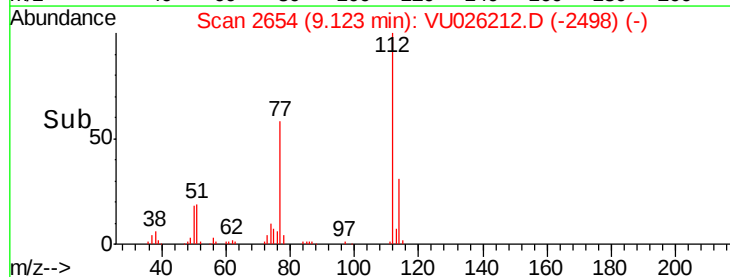
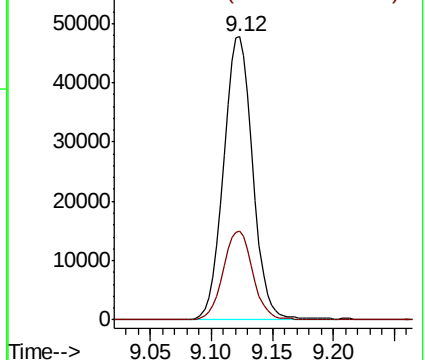
114 31.5 25.4 38.2

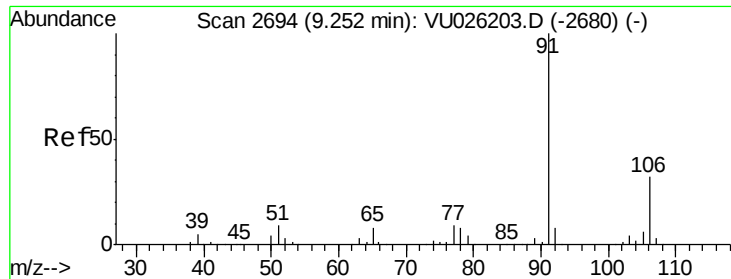


Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

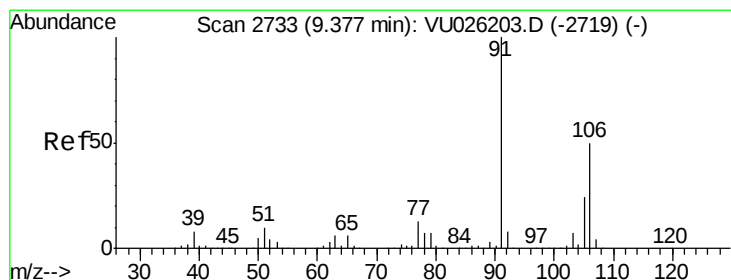
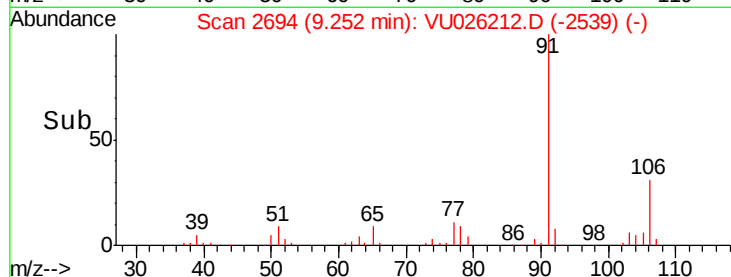
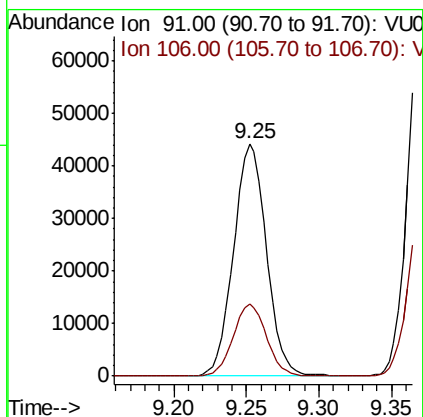
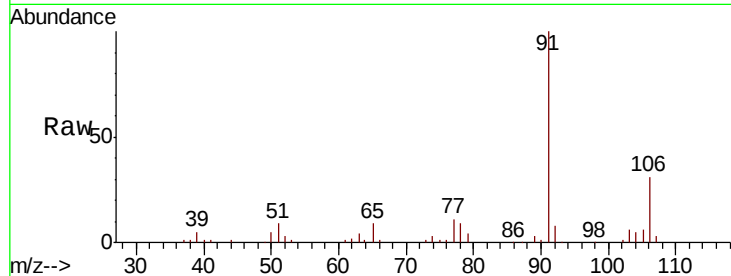




#63
Ethyl Benzene
Concen: 1.813 ug/l
RT: 9.25 min Scan# 2694
Delta R.T. -0.00 min
Lab File: VU026212.D
Acq: 20 Aug 2018 16:46

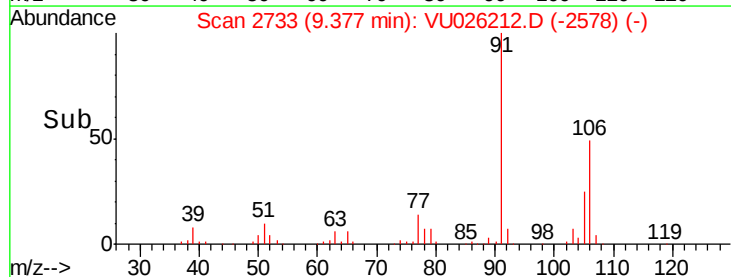
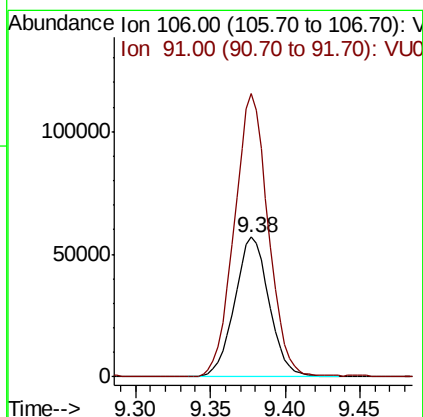
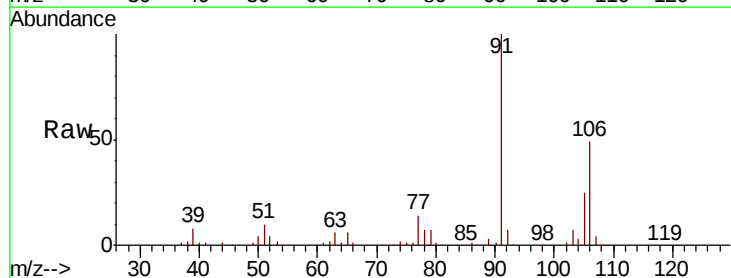
Instrument :
MSVOA_U
ClientSampled :

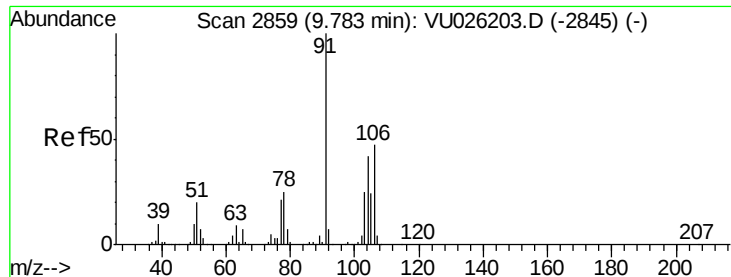
Tot Ion: 91 Resp: 69765
Ion Ratio Lower Upper
91 100
106 30.8 24.7 37.1



#64
m/p-Xylenes
Concen: 5.967 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU026212.D
Acq: 20 Aug 2018 16:46

Tgt Ion: 106 Resp: 91644
Ion Ratio Lower Upper
106 100
91 199.4 164.1 246.1

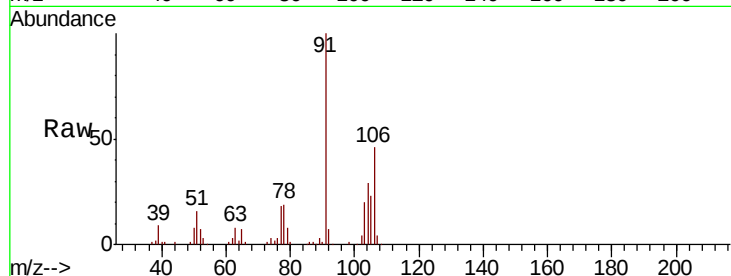




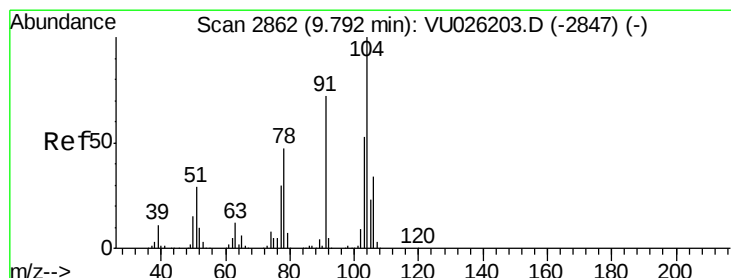
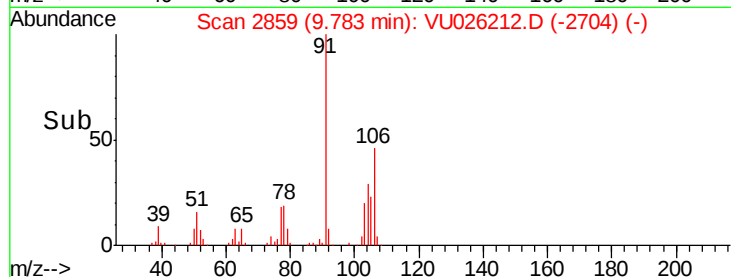
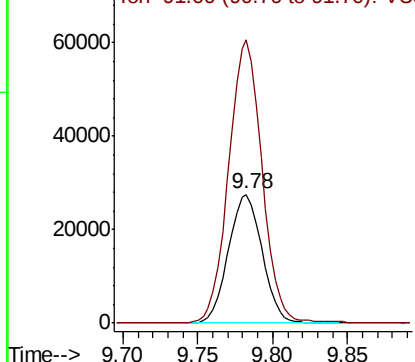
#65
o-Xylene
Concen: 2.963 ug/l
RT: 9.78 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VU026212.D
Acq: 20 Aug 2018 16:46

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:106 Resp: 43389
Ion Ratio Lower Upper
106 100
91 216.8 107.9 323.7

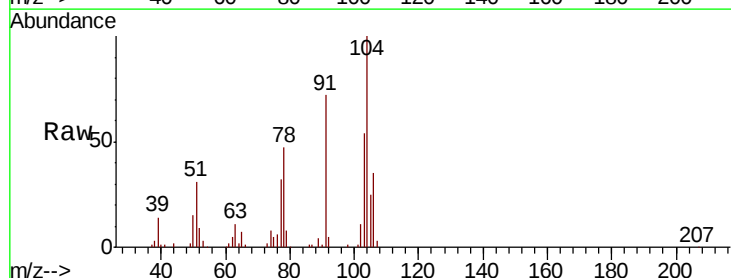


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

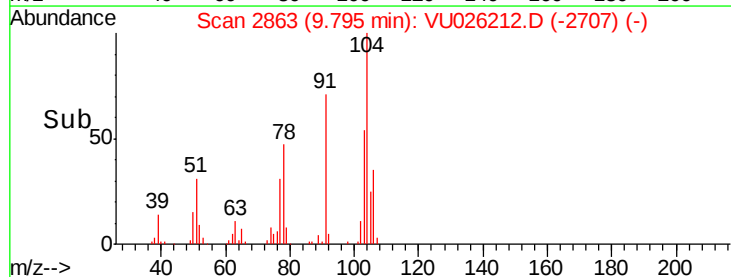
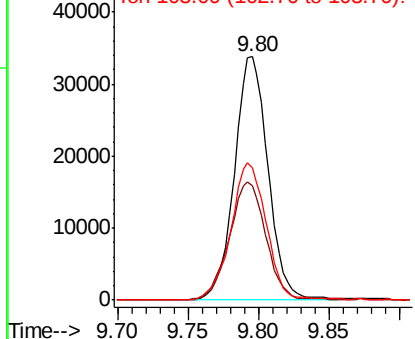


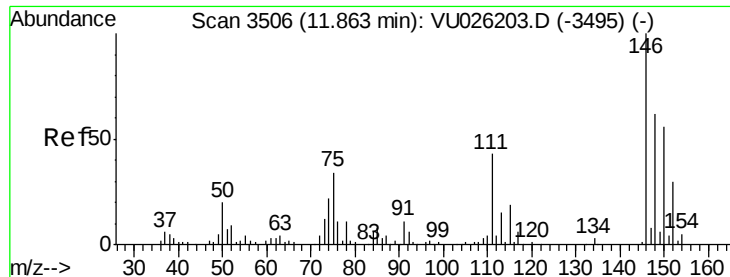
#66
Styrene
Concen: 2.259 ug/l
RT: 9.80 min Scan# 2863
Delta R.T. 0.00 min
Lab File: VU026212.D
Acq: 20 Aug 2018 16:46

Tgt Ion:104 Resp: 56622
Ion Ratio Lower Upper
104 100
78 52.7 40.2 60.2
103 58.9 44.2 66.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#68

1,2-Dichlorobenzene-d4

Concen: N.D. ug/l

RT: 11.86 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

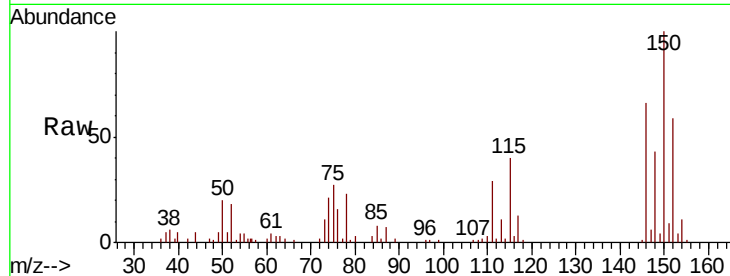
Tot Ion:152 Resp: 11941

Ion Ratio Lower Upper

152 100

115 66.9 0.0 118.8

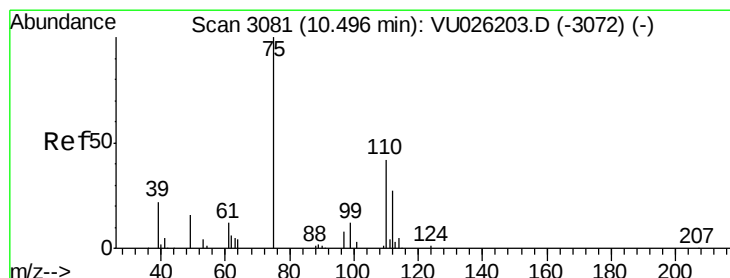
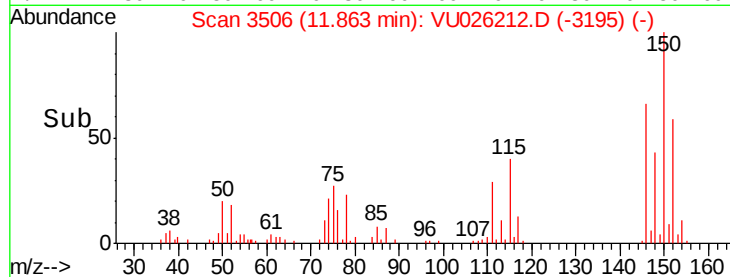
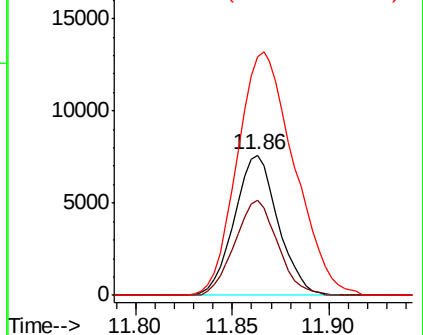
150 226.2 0.0 0.0#



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: 0.982 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Tgt Ion: 75 Resp: 6033

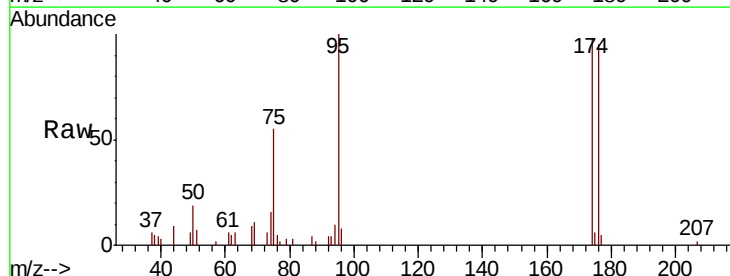
Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#

110 0.0 0.0 74.0

97 0.0 0.0 39.6

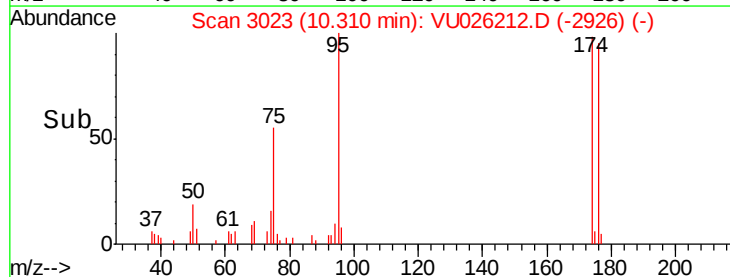
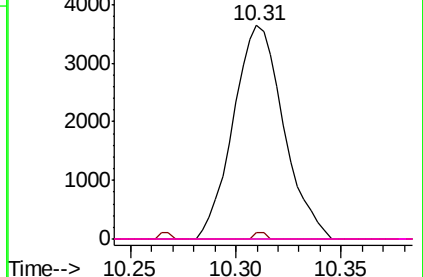


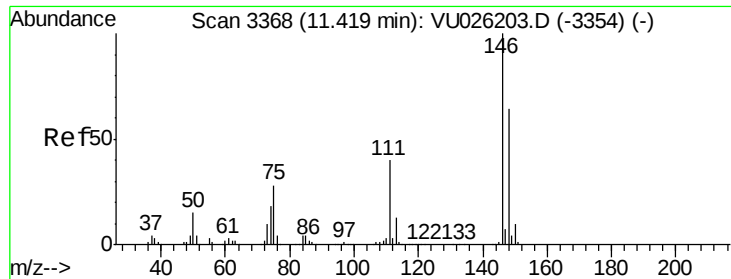
Abundance Ion 75.00 (74.70 to 75.70): VU0

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





#82

1,3-Dichlorobenzene

Concen: 2.501 ug/l

RT: 11.51 min Scan# 3396

Delta R.T. 0.09 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

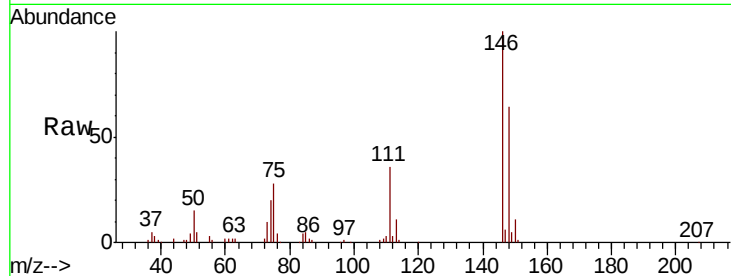
Tot Ion:146 Resp: 57068

Ion Ratio Lower Upper

146 100

111 36.8 31.8 47.6

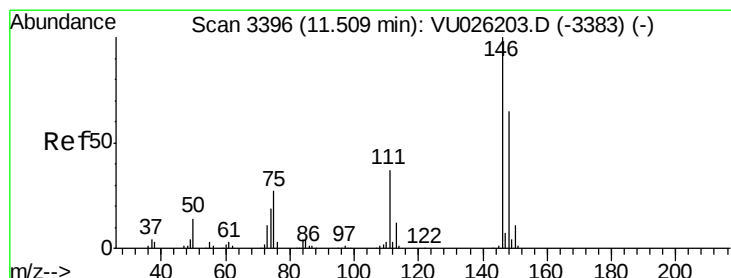
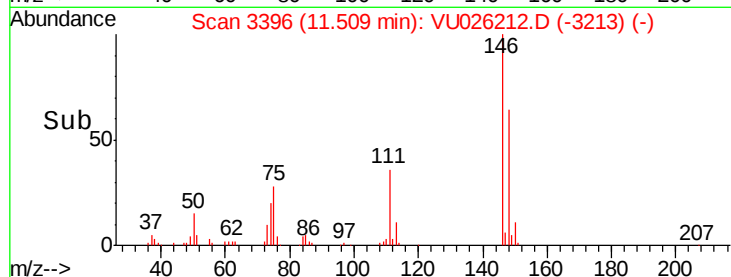
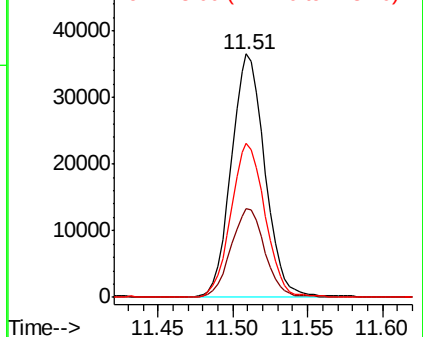
148 64.3 51.0 76.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#83

1,4-Dichlorobenzene

Concen: 2.505 ug/l

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

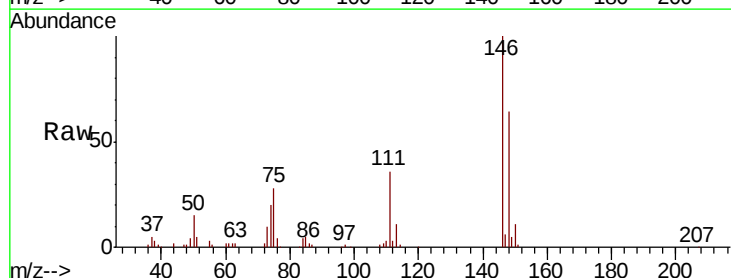
Tgt Ion:146 Resp: 57068

Ion Ratio Lower Upper

146 100

111 36.8 30.1 45.1

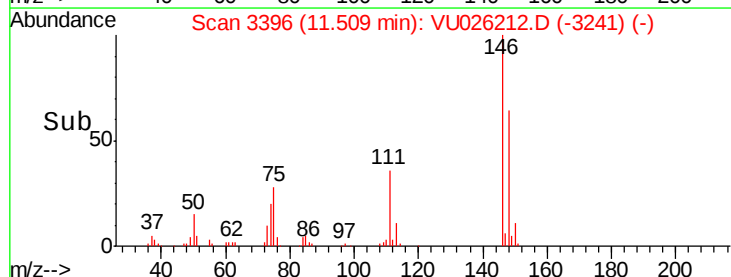
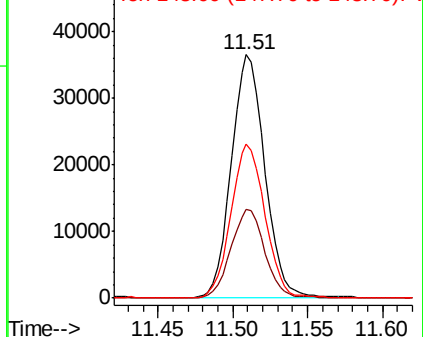
148 64.3 50.6 76.0

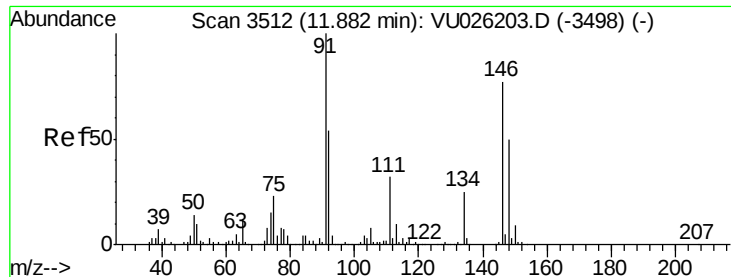


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#85

1,2-Dichlorobenzene

Concen: 3.502 ug/l

RT: 11.88 min Scan# 3512

Delta R.T. -0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

Instrument :

MSVOA_U

ClientSampleId :

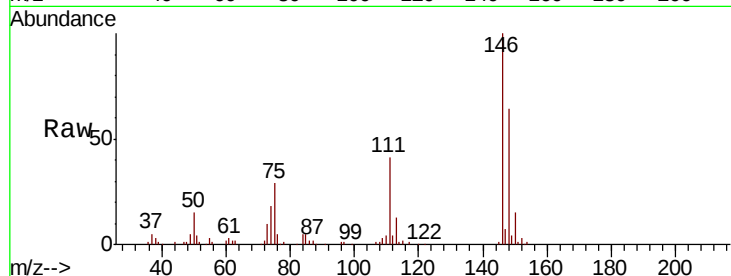
Tot Ion:146 Resp: 73375

Ion Ratio Lower Upper

146 100

111 40.4 20.7 62.1

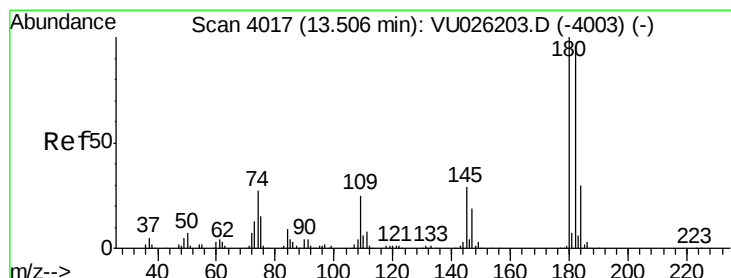
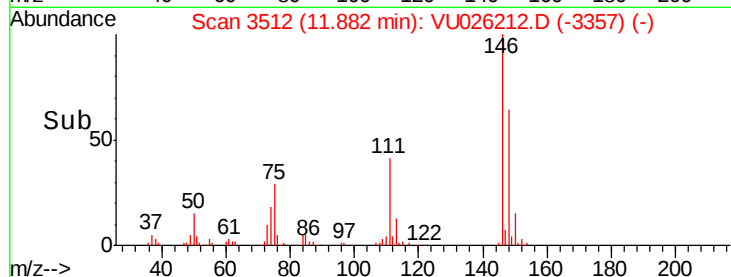
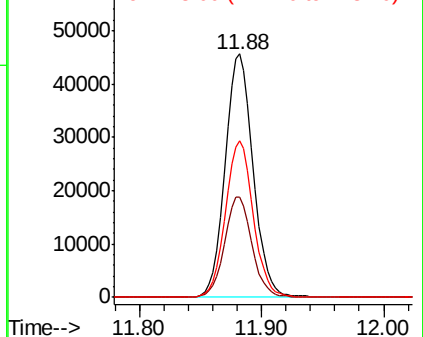
148 63.9 31.9 95.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#87

1,2,4-Trichlorobenzene

Concen: 1.774 ug/l

RT: 13.51 min Scan# 4017

Delta R.T. -0.00 min

Lab File: VU026212.D

Acq: 20 Aug 2018 16:46

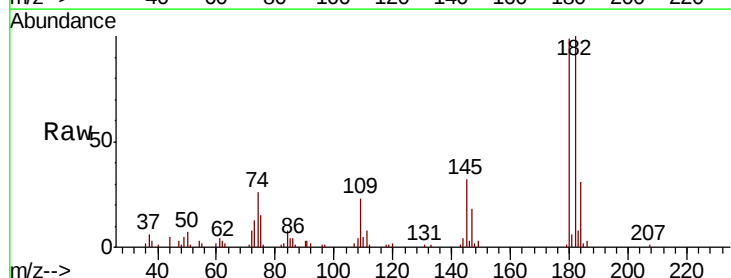
Tgt Ion:180 Resp: 26147

Ion Ratio Lower Upper

180 100

182 98.3 77.1 115.7

145 31.0 23.3 34.9



Abundance Ion 179.70 (179.40 to 180.40): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

