

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091120\
 Data File : VU040105.D
 Acq On : 11 Sep 2020 15:27
 Operator : SY/MD
 Sample : L3938-01
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

Quant Time: Sep 12 05:14:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U091120DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Sep 11 13:27:06 2020
 Response via : Initial Calibration

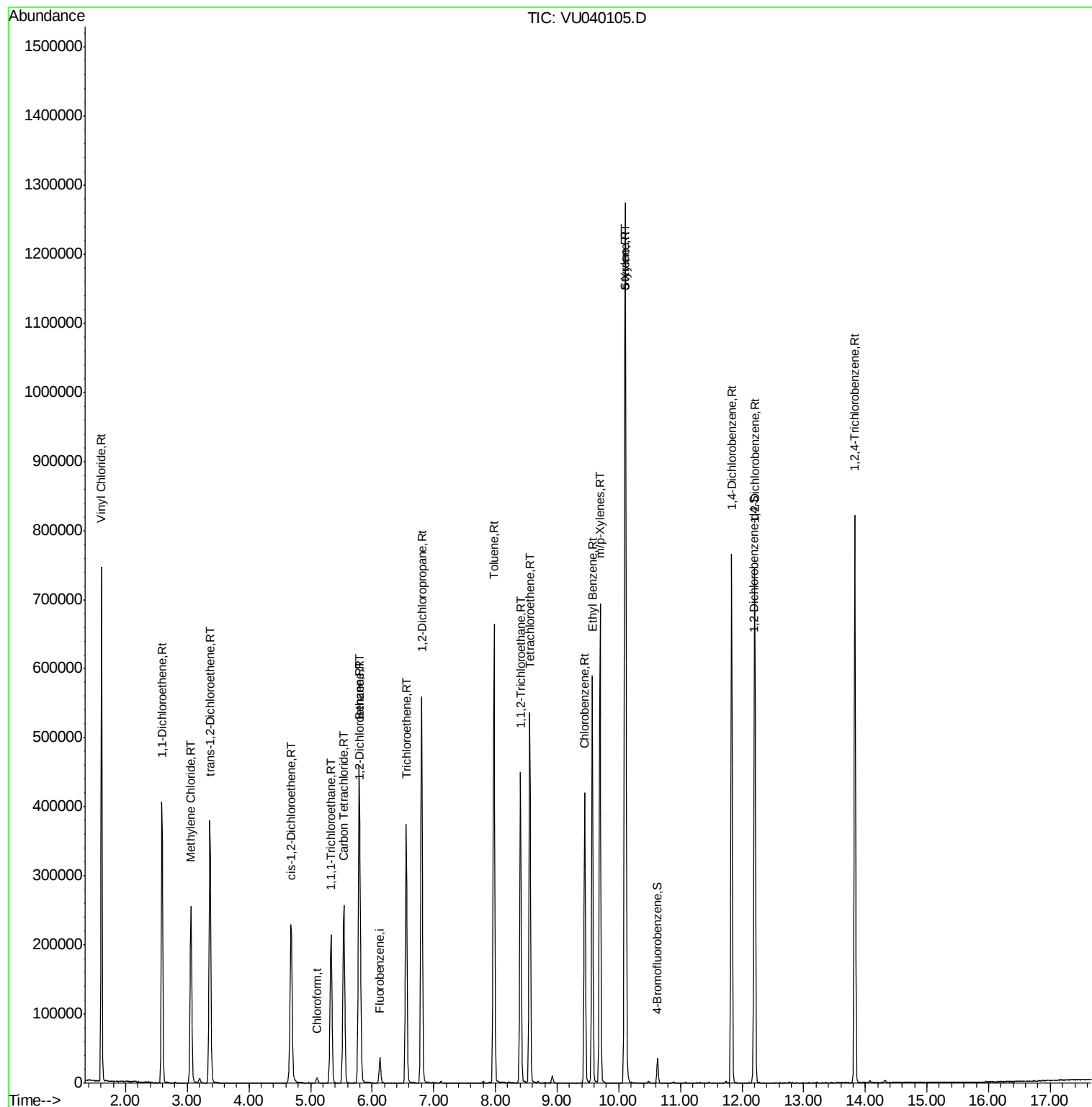
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.13	96	30165	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.63	95	11508	0.92	ug/l	0.00
Spiked Amount 1.000			Recovery	=	92.00%	
68) 1,2-Dichlorobenzene-d4	12.19	152	11250	1.00	ug/l	0.00
Spiked Amount 1.000			Recovery	=	100.00%	
Target Compounds						Ovalue
4) Vinyl Chloride	1.61	62	471555	39.119	ug/l	99
9) 1,1-Dichloroethene	2.59	96	125722	21.608	ug/l	98
15) Methylene Chloride	3.06	84	112743	11.531	ug/l	98
16) trans-1,2-Dichloroethene	3.37	96	147120	23.525	ug/l	97
22) cis-1,2-Dichloroethene	4.68	96	106284	13.482	ug/l	85
27) Chloroform	5.10	83	6351	0.378	ug/l	98
28) 1,1,1-Trichloroethane	5.33	97	150584	10.668	ug/l	98
30) Carbon Tetrachloride	5.54	117	166548	14.364	ug/l	98
35) Benzene	5.79	78	371591	12.331	ug/l	98
36) 1,2-Dichloroethane	5.81	62	95253	7.865	ug/l	99
37) Trichloroethene	6.55	130	114017	14.730	ug/l	98
38) 1,2-Dichloropropane	6.80	63	191873	20.572	ug/l	97
49) Toluene	7.98	92	259691	13.588	ug/l	99
52) 1,1,2-Trichloroethane	8.40	97	131312	17.722	ug/l	98
58) Tetrachloroethene	8.56	164	100793	17.517	ug/l	99
59) Chlorobenzene	9.45	112	204449	9.097	ug/l	99
63) Ethyl Benzene	9.57	91	392188	10.510	ug/l	99
64) m/p-Xylenes	9.70	106	179438	25.317	ug/l	98
65) o-Xylene	10.10	106	226882	16.683	ug/l	99
66) Styrene	10.11	104	287019	11.824	ug/l	94
83) 1,4-Dichlorobenzene	11.83	146	275849	14.858	ug/l	100
85) 1,2-Dichlorobenzene	12.21	146	262013	14.806	ug/l	100
87) 1,2,4-Trichlorobenzene	13.83	180	207467	20.399	ug/l	99
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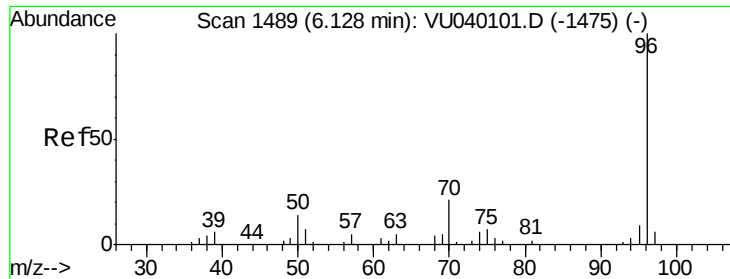
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 11 13:27:06 2020
Response via : Initial Calibration





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.13 min Scan# 1489

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

38022-103019

Tot Ion: 96 Resp: 30165

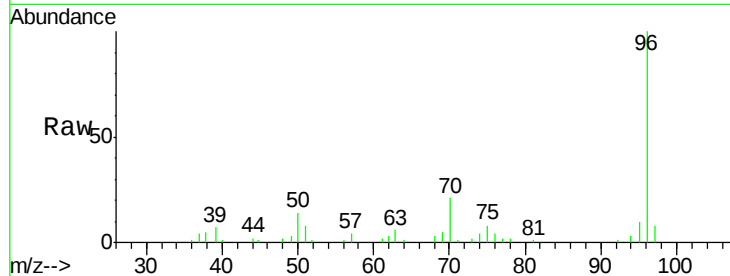
Ion Ratio Lower Upper

96 100

70 22.0 17.1 25.7

95 9.5 7.6 11.4

97 0.0 0.0 0.0

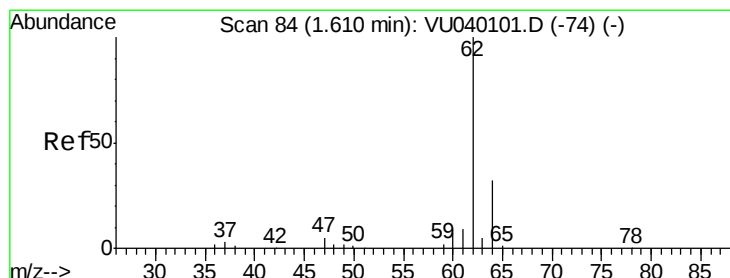
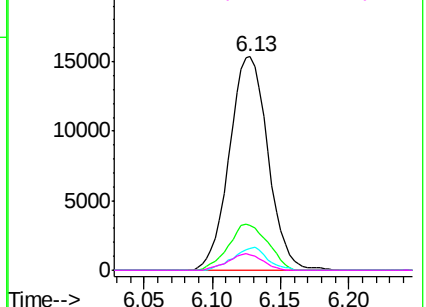
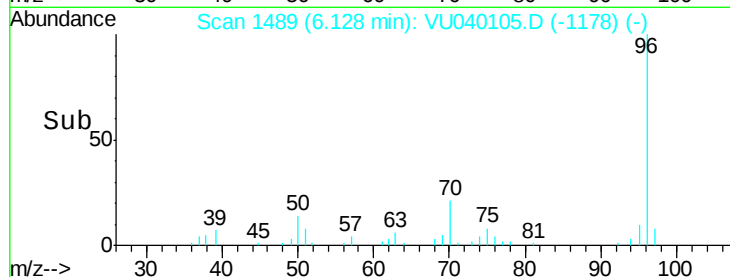


Abundance Ion 96.00 (95.70 to 96.70): VU0

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



#4

Vinyl Chloride

Concen: 39.119 ug/l

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040105.D

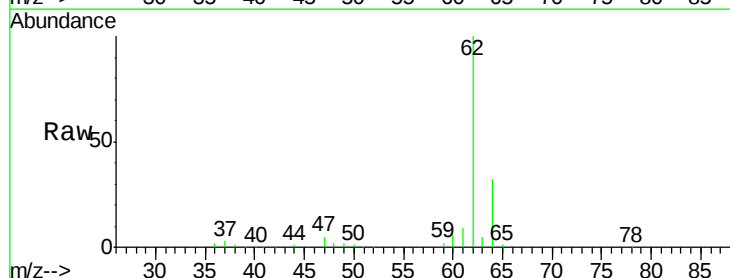
Acq: 11 Sep 2020 15:27

Tgt Ion: 62 Resp: 471555

Ion Ratio Lower Upper

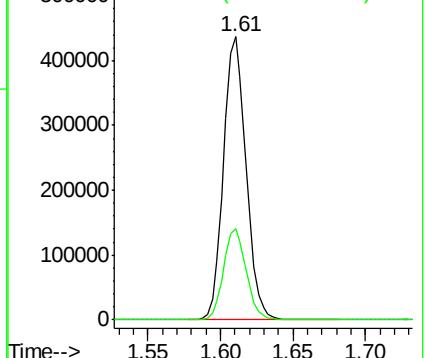
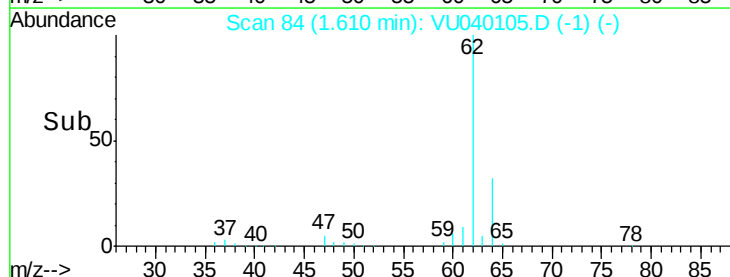
62 100

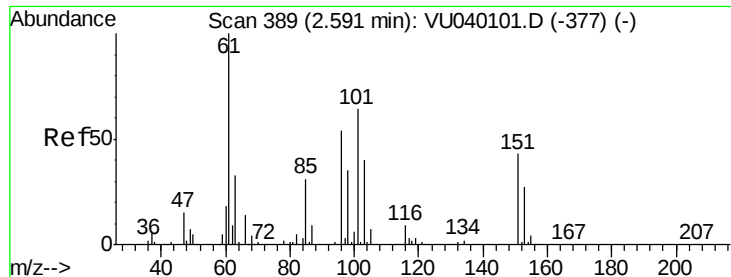
64 32.4 25.4 38.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0





#9

1,1-Dichloroethene

Concen: 21.608 ug/l

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

38022-103019

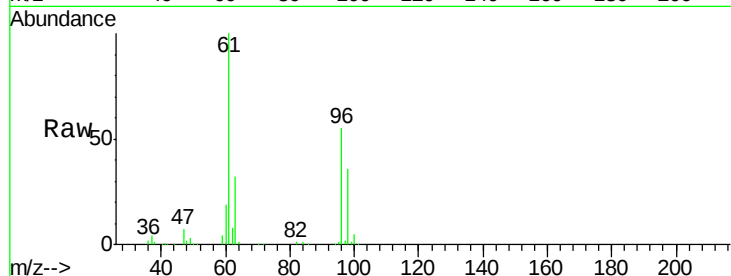
Tot Ion: 96 Resp: 125722

Ion Ratio Lower Upper

96 100

61 183.0 0.0 557.1

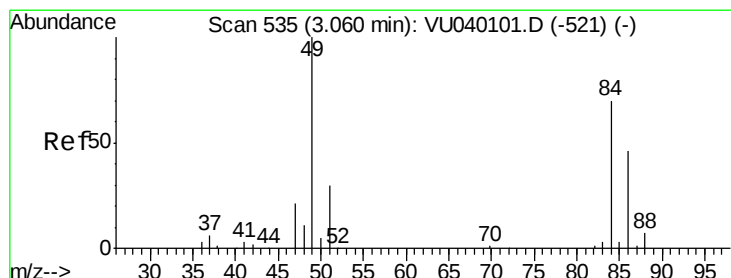
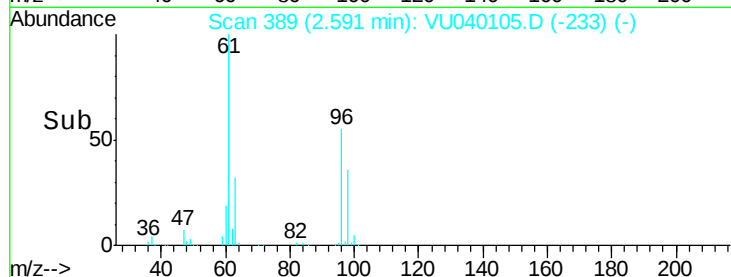
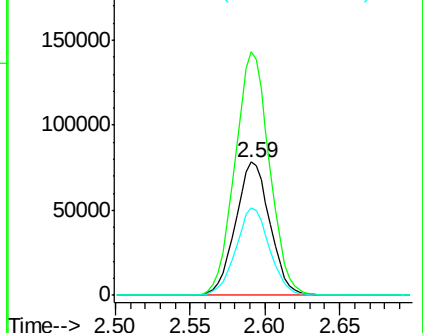
98 65.4 0.0 125.6



Abundance Ion 96.00 (95.70 to 96.70): VU040105.D (-377) (-)

Ion 61.00 (60.70 to 61.70): VU040105.D (-377) (-)

Ion 98.00 (97.70 to 98.70): VU040105.D (-377) (-)



#15

Methylene Chloride

Concen: 11.531 ug/l

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Tgt Ion: 84 Resp: 112743

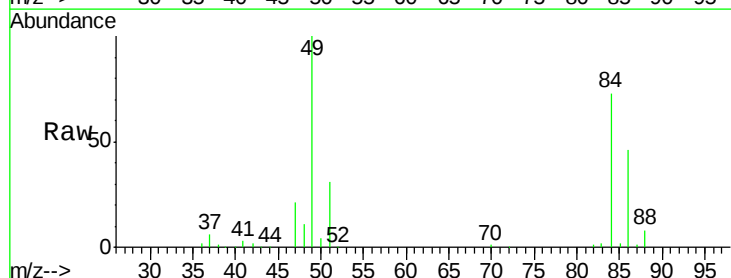
Ion Ratio Lower Upper

84 100

49 137.9 114.3 171.5

51 42.7 0.0 84.6

86 63.2 50.6 76.0

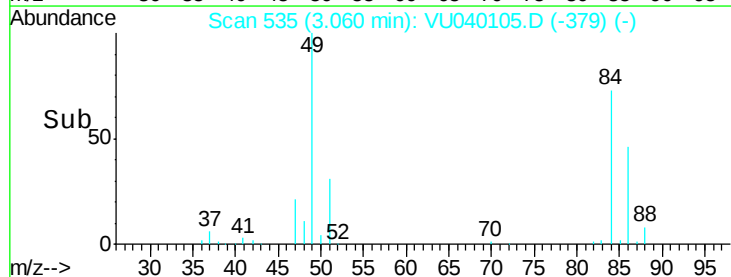
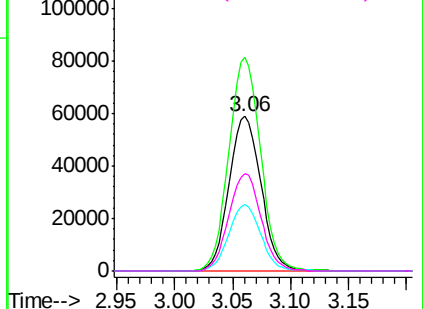


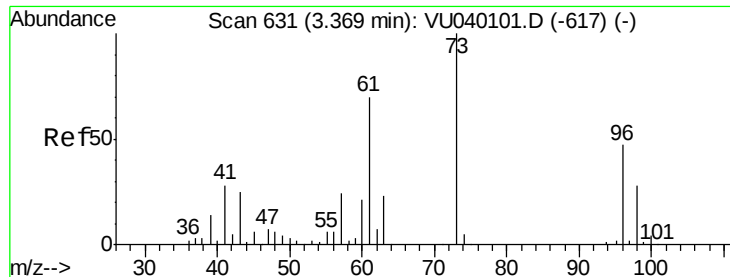
Abundance Ion 84.00 (83.70 to 84.70): VU040105.D (-379) (-)

Ion 49.00 (48.70 to 49.70): VU040105.D (-379) (-)

Ion 51.00 (50.70 to 51.70): VU040105.D (-379) (-)

Ion 86.00 (85.70 to 86.70): VU040105.D (-379) (-)

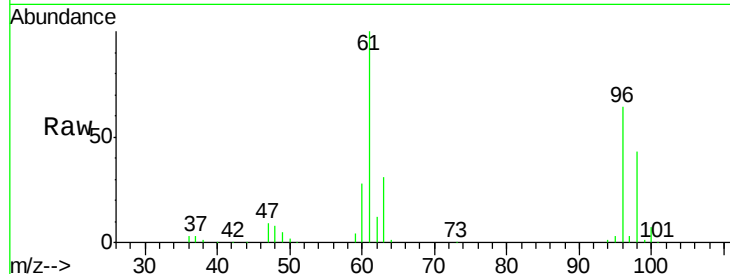




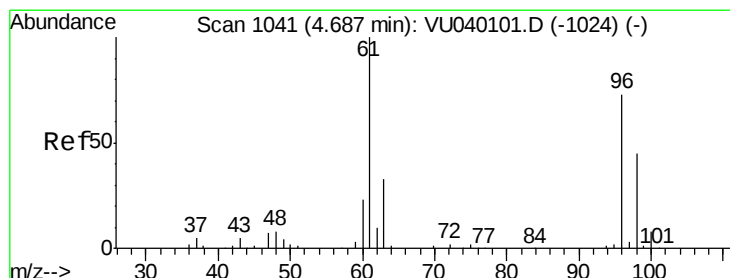
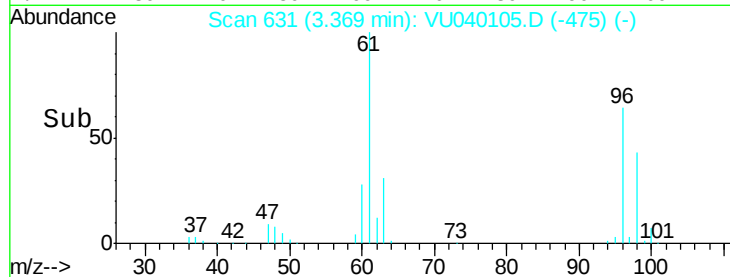
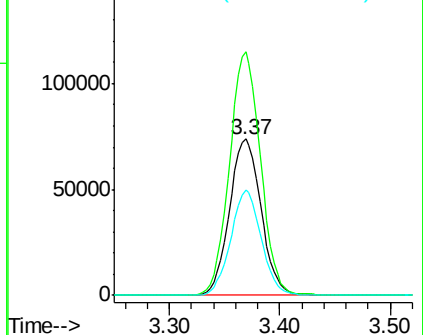
#16
 trans-1,2-Dichloroethene
 Concen: 23.525 ug/l
 RT: 3.37 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

Tot Ion: 96 Resp: 147120
 Ion Ratio Lower Upper
 96 100
 61 156.1 121.4 182.0
 98 67.2 51.9 77.9

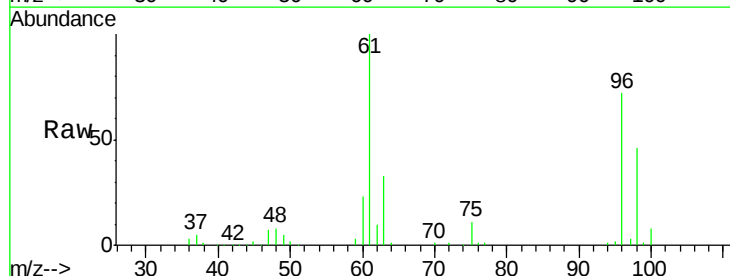


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

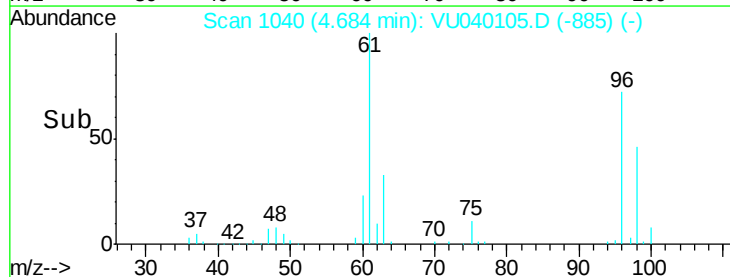
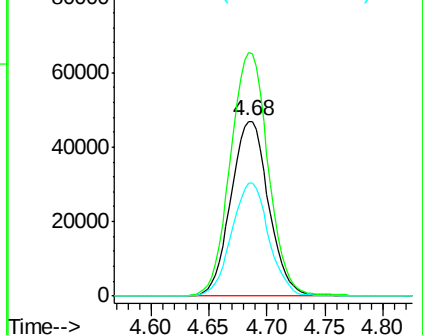


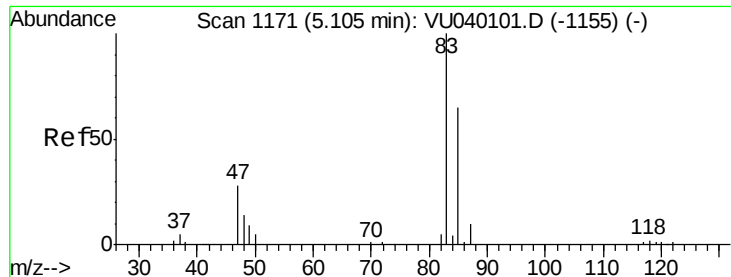
#22
 cis-1,2-Dichloroethene
 Concen: 13.482 ug/l
 RT: 4.68 min Scan# 1040
 Delta R.T. -0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Tgt Ion: 96 Resp: 106284
 Ion Ratio Lower Upper
 96 100
 61 139.7 0.0 420.0
 98 63.6 31.8 95.3



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

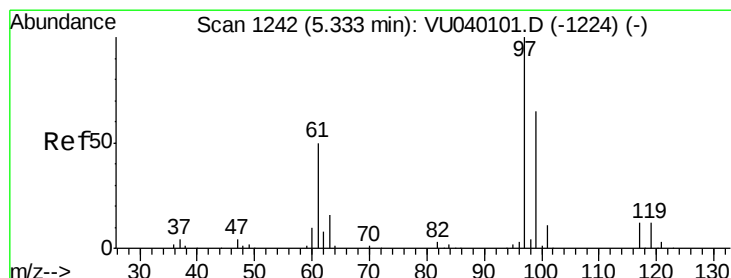
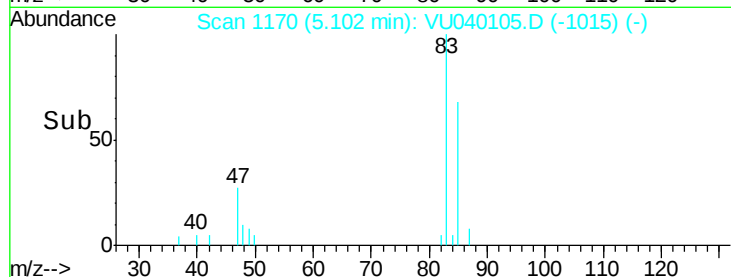
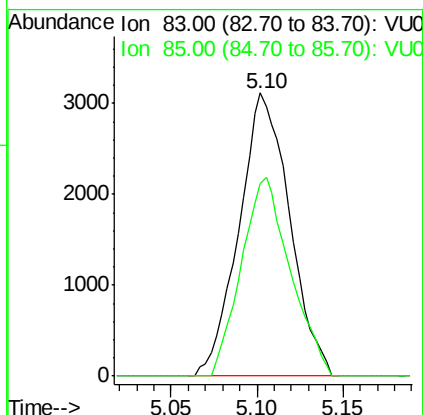
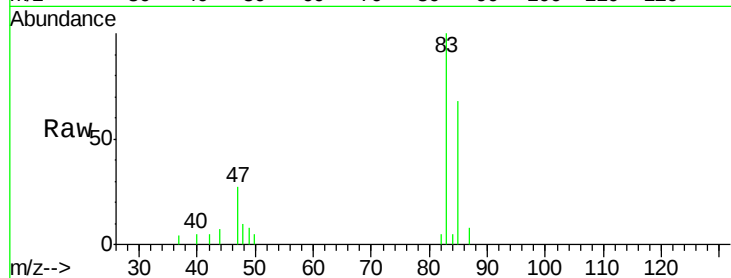




#27
 Chloroform
 Concen: 0.378 ug/l
 RT: 5.10 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

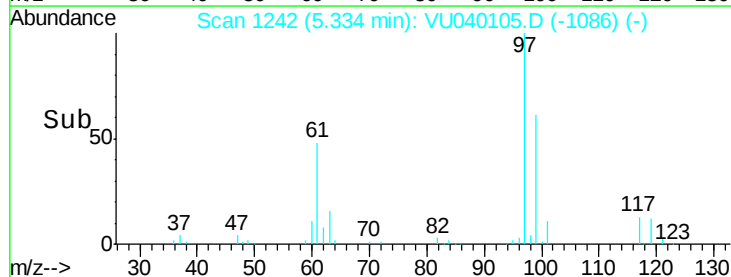
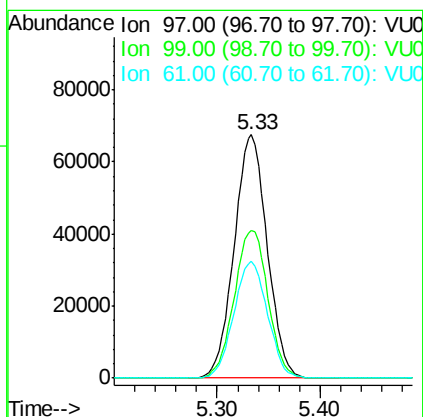
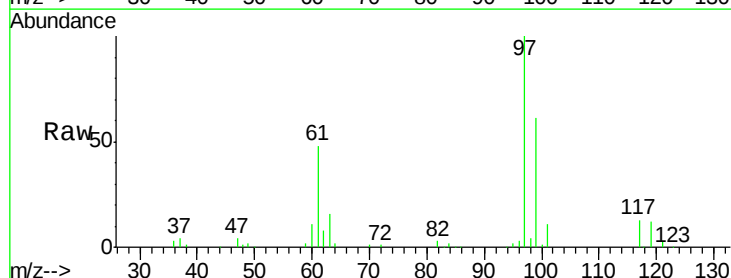
Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

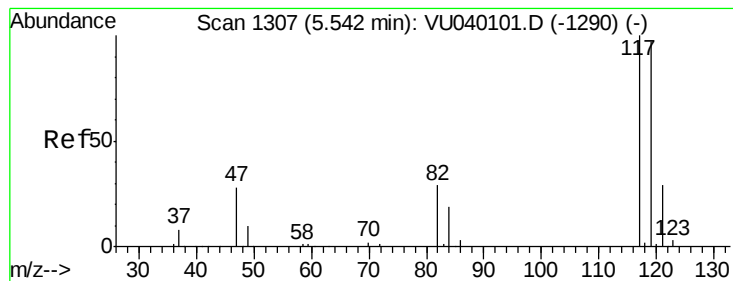
Tot Ion: 83 Resp: 6351
 Ion Ratio Lower Upper
 83 100
 85 68.0 0.0 132.4



#28
 1,1,1-Trichloroethane
 Concen: 10.668 ug/l
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Tgt Ion: 97 Resp: 150584
 Ion Ratio Lower Upper
 97 100
 99 62.2 31.8 95.4
 61 48.8 25.1 75.2





#30

Carbon Tetrachloride

Concen: 14.364 ug/l

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

38022-103019

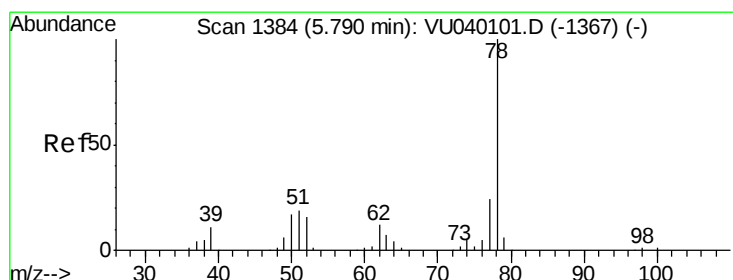
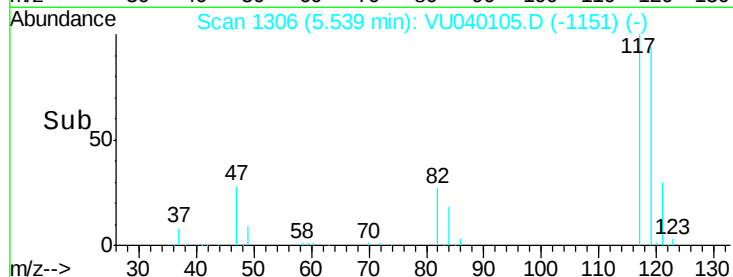
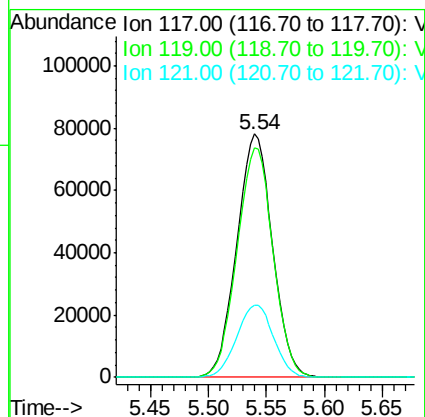
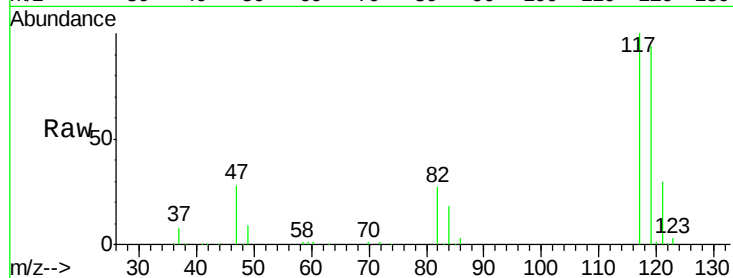
Tot Ion:117 Resp: 166548

Ion Ratio Lower Upper

117 100

119 94.1 77.0 115.4

121 29.7 24.2 36.4



#35

Benzene

Concen: 12.331 ug/l

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU040105.D

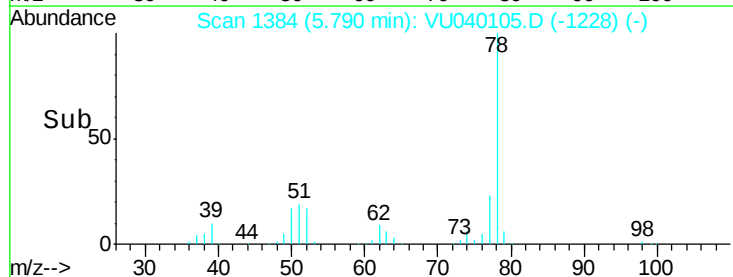
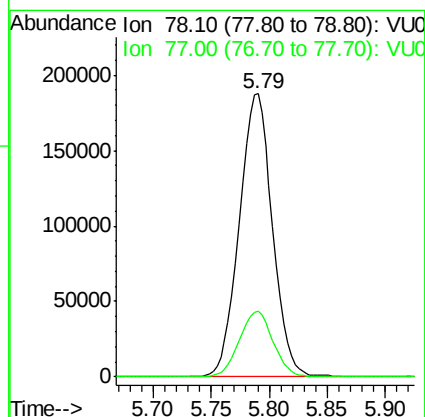
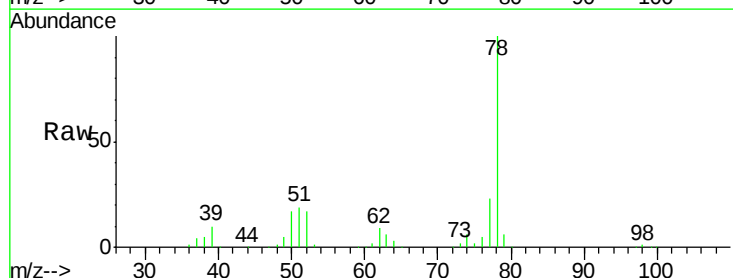
Acq: 11 Sep 2020 15:27

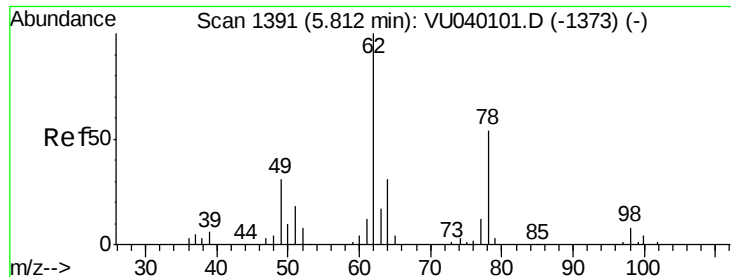
Tgt Ion: 78 Resp: 371591

Ion Ratio Lower Upper

78 100

77 23.1 19.1 28.7





#36

1,2-Dichloroethane

Concen: 7.865 ug/l

RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

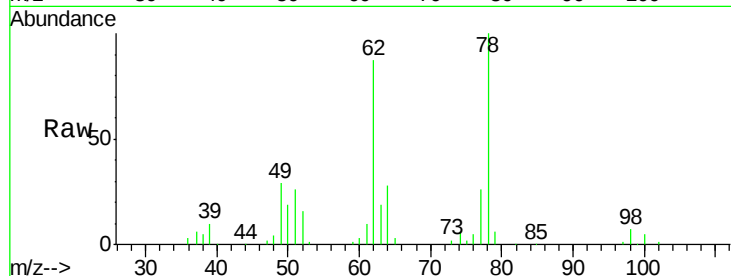
38022-103019

Tot Ion: 62 Resp: 95253

Ion Ratio Lower Upper

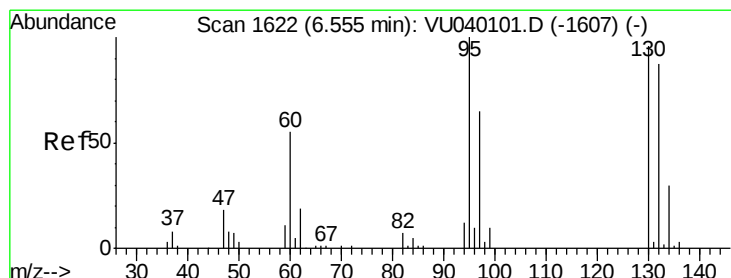
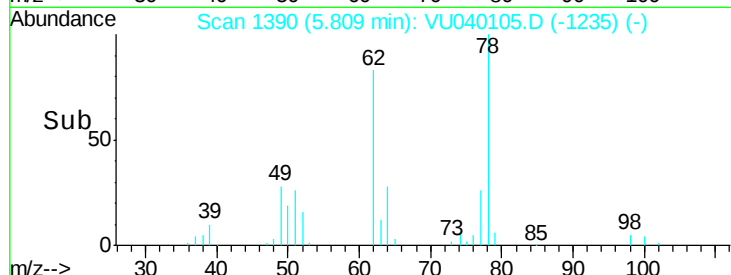
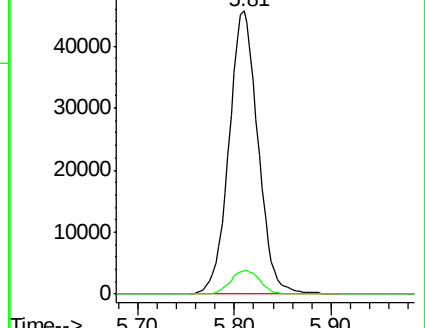
62 100

98 8.4 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU040101.D (-1373) (-)

Ion 98.00 (97.70 to 98.70): VU040101.D (-1373) (-)



#37

Trichloroethene

Concen: 14.730 ug/l

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU040105.D

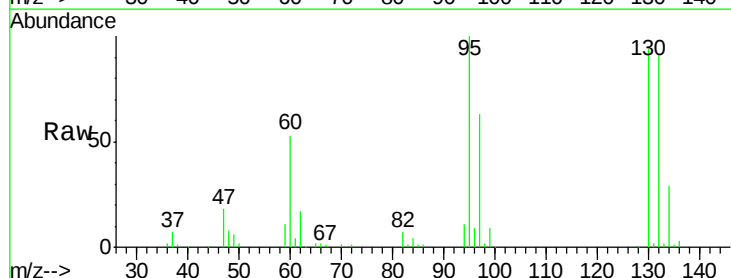
Acq: 11 Sep 2020 15:27

Tgt Ion:130 Resp: 114017

Ion Ratio Lower Upper

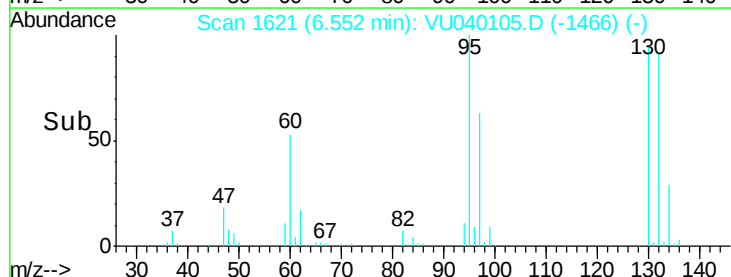
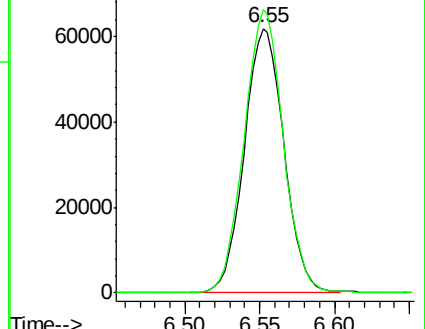
130 100

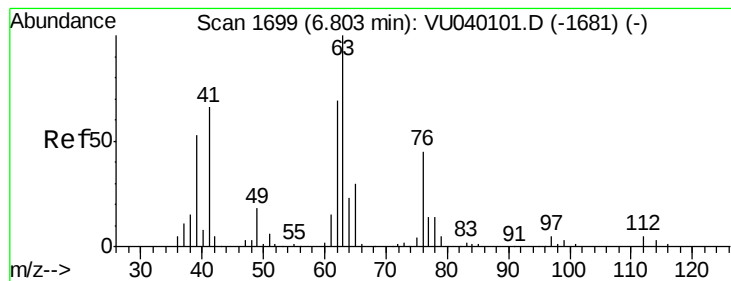
95 106.9 84.2 126.2



Abundance Ion 129.90 (129.60 to 130.60): VU040101.D (-1607) (-)

Ion 94.90 (94.60 to 95.60): VU040101.D (-1607) (-)





#38

1,2-Dichloropropane

Concen: 20.572 ug/l

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

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ClientSampleId :

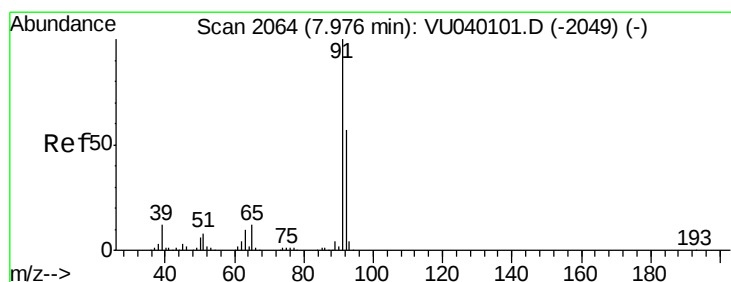
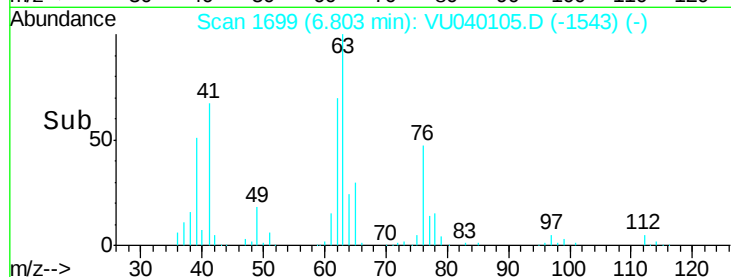
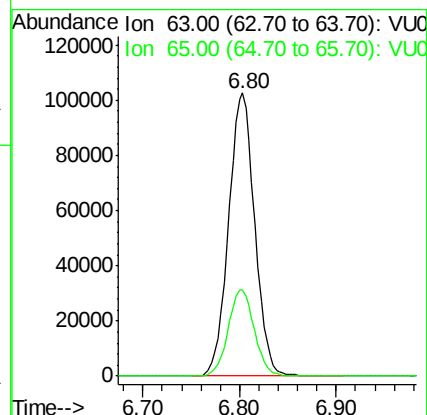
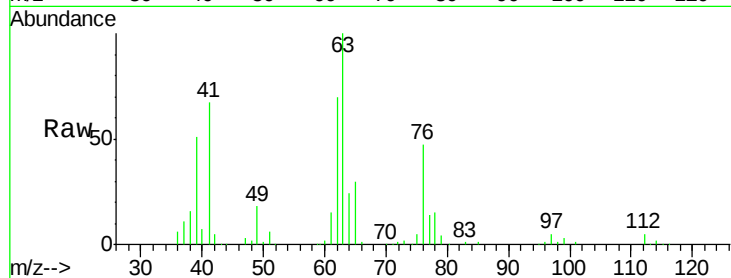
38022-103019

Tot Ion: 63 Resp: 191873

Ion Ratio Lower Upper

63 100

65 30.3 23.0 34.6



#49

Toluene

Concen: 13.588 ug/l

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040105.D

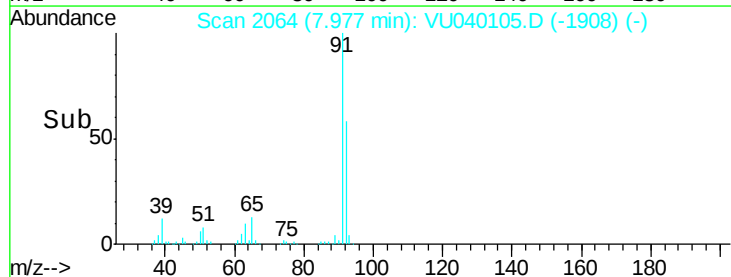
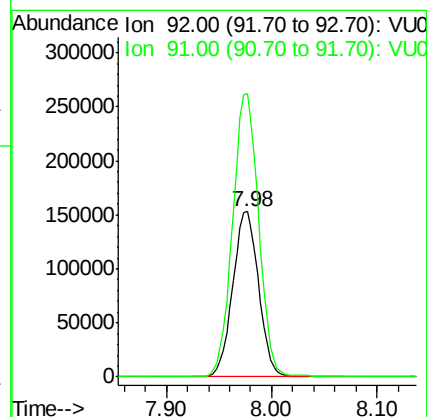
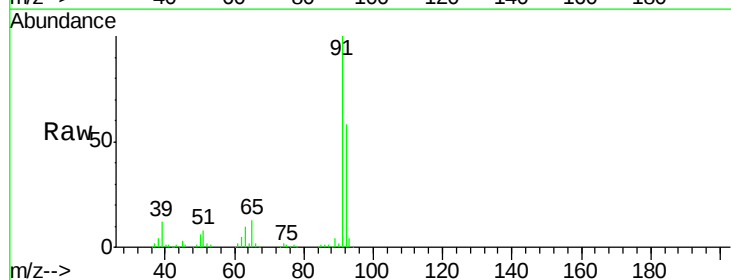
Acq: 11 Sep 2020 15:27

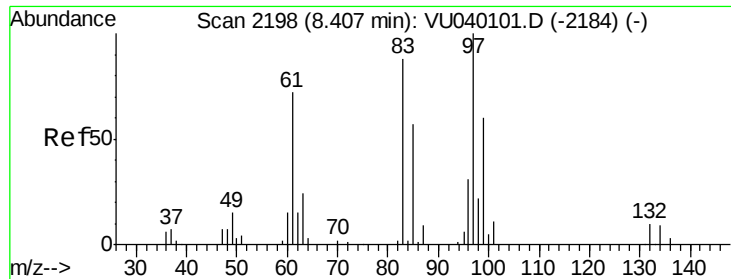
Tgt Ion: 92 Resp: 259691

Ion Ratio Lower Upper

92 100

91 172.4 138.6 207.8

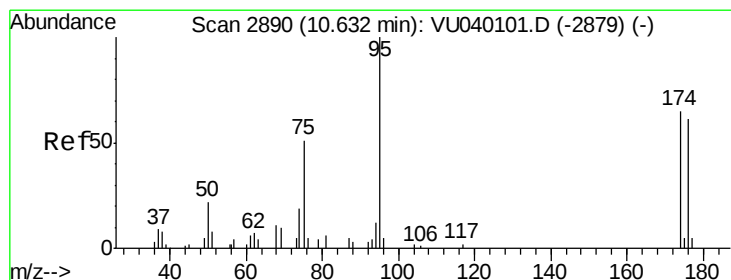
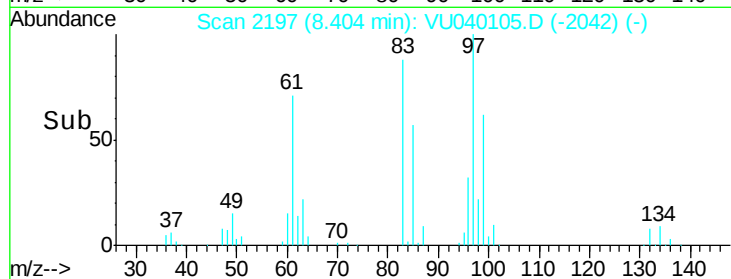
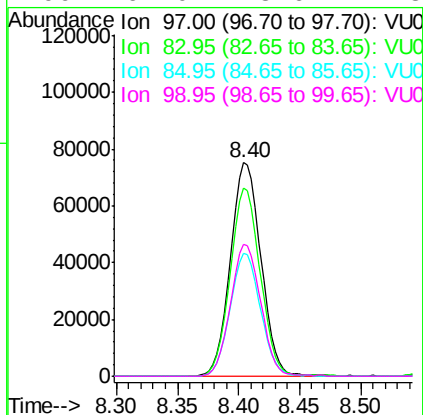
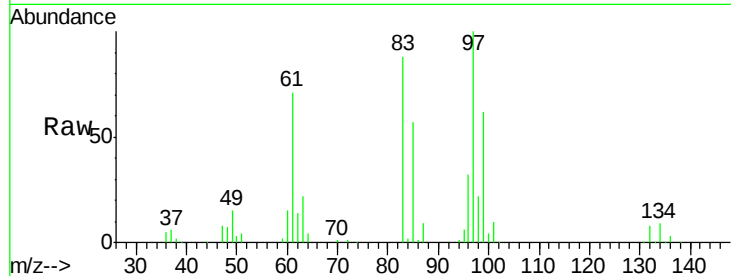




#52
 1,1,2-Trichloroethane
 Concen: 17.722 ug/l
 RT: 8.40 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

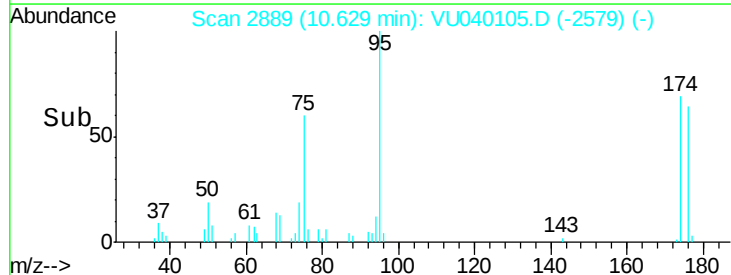
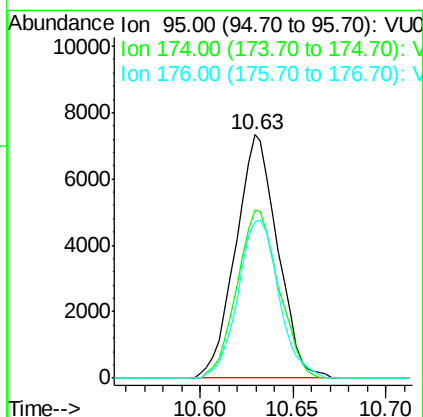
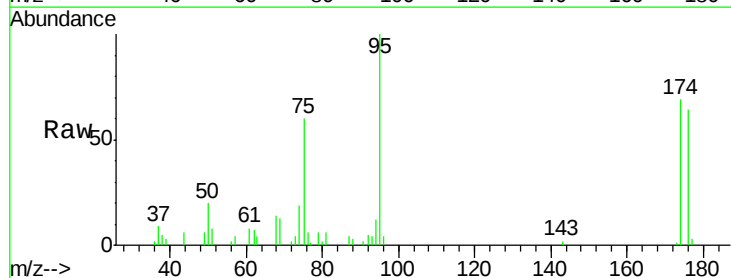
Instrument :
 MSVOA_U
 ClientSampleId :
 38022-103019

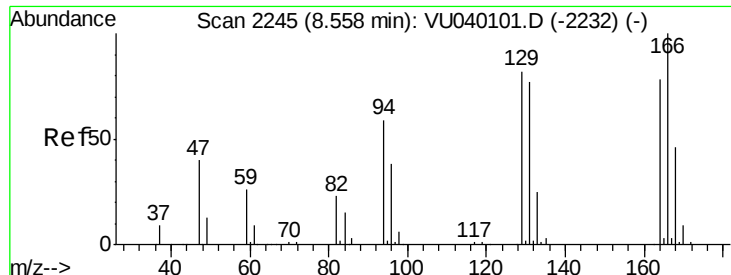
Tot Ion:	97	Resp:	131312
Ion	Ratio	Lower	Upper
97	100		
83	88.2	68.7	103.1
85	57.3	46.7	70.1
99	62.0	48.6	72.8



#57
 4-Bromofluorobenzene
 Concen: 0.918 ug/l
 RT: 10.63 min Scan# 2889
 Delta R.T. -0.00 min
 Lab File: VU040105.D
 Acq: 11 Sep 2020 15:27

Tgt Ion:	95	Resp:	11508
Ion	Ratio	Lower	Upper
95	100		
174	68.8	49.4	74.0
176	63.4	50.1	75.1





#58

Tetrachloroethene

Concen: 17.517 ug/l

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

38022-103019

Tot Ion:164 Resp: 100793

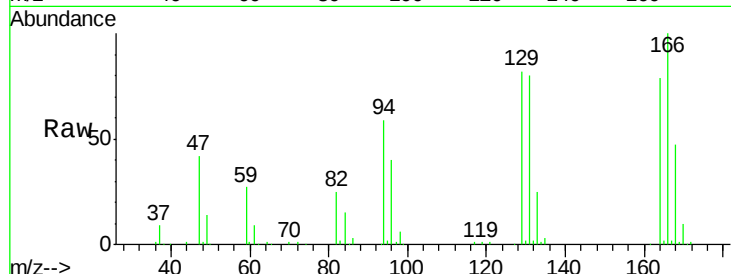
Ion Ratio Lower Upper

164 100

166 125.9 101.3 151.9

129 103.6 84.8 127.2

131 100.8 81.8 122.6

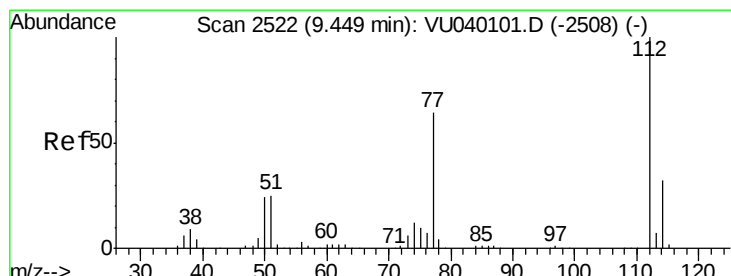
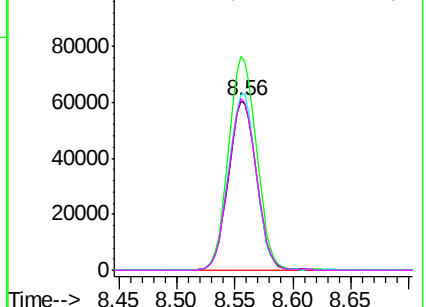
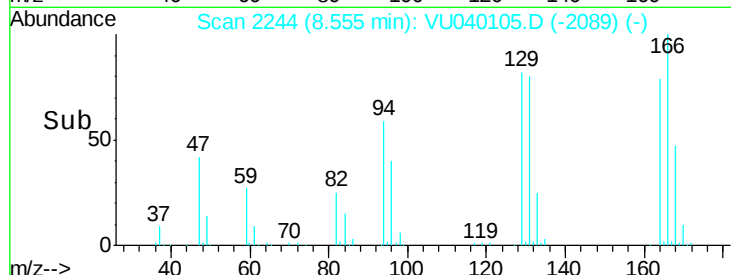


Abundance Ion 163.85 (163.55 to 164.55): V

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



#59

Chlorobenzene

Concen: 9.097 ug/l

RT: 9.45 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VU040105.D

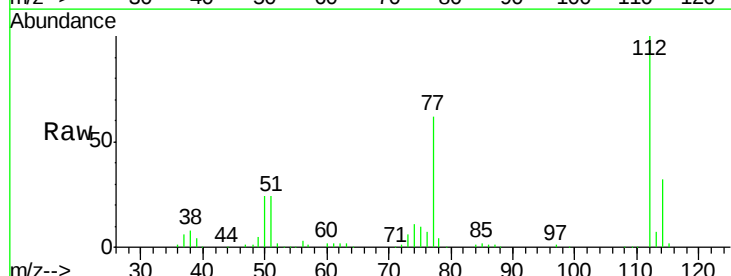
Acq: 11 Sep 2020 15:27

Tgt Ion:112 Resp: 204449

Ion Ratio Lower Upper

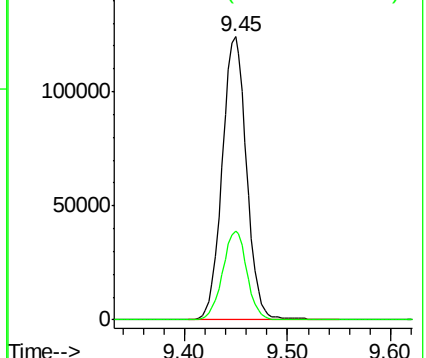
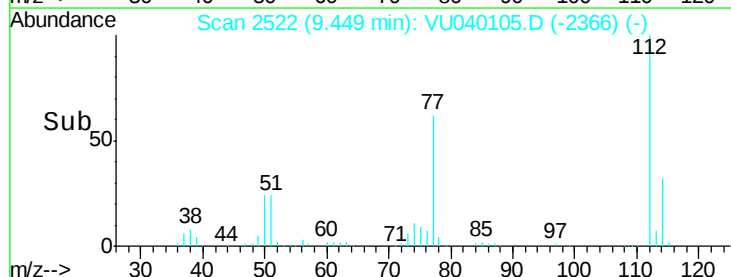
112 100

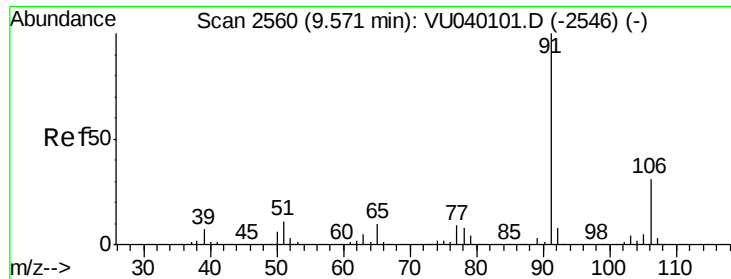
114 31.5 24.8 37.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

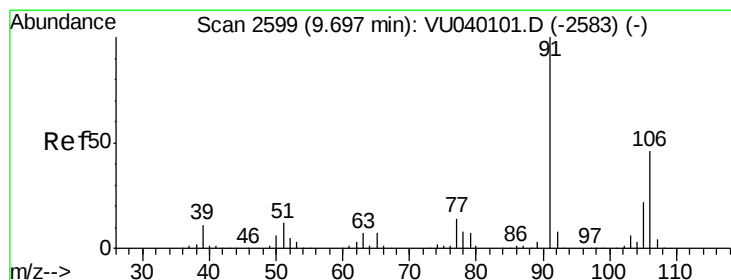
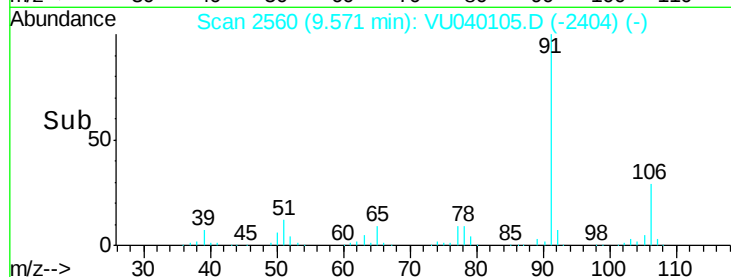
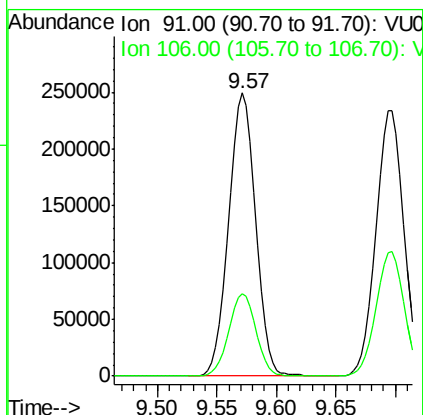
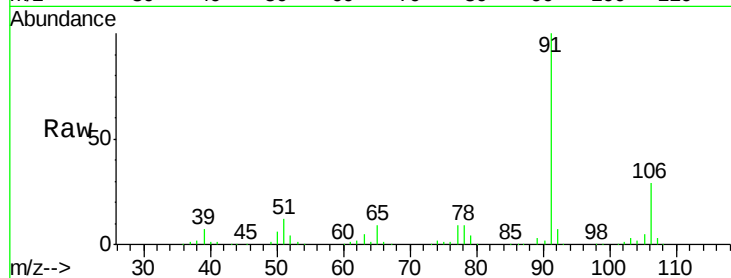




#63
Ethyl Benzene
Concen: 10.510 ug/l
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

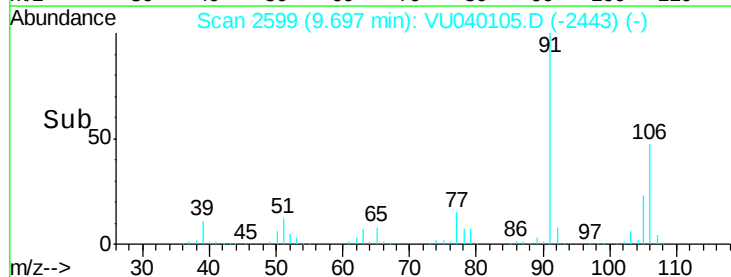
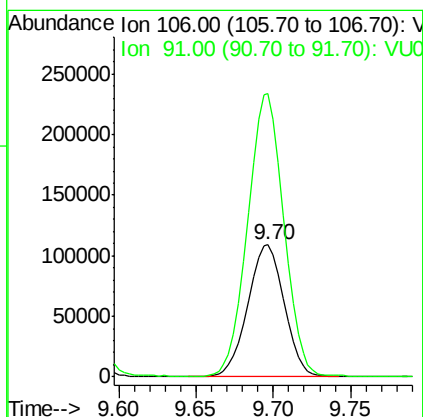
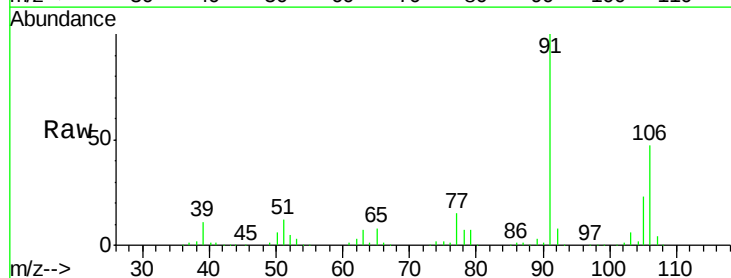
Instrument :
MSVOA_U
ClientSampleId :
38022-103019

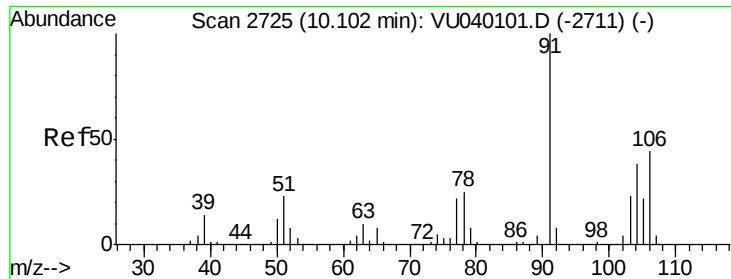
Tot Ion: 91 Resp: 392188
Ion Ratio Lower Upper
91 100
106 29.3 23.8 35.8



#64
m/p-Xylenes
Concen: 25.317 ug/l
RT: 9.70 min Scan# 2599
Delta R.T. 0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

Tgt Ion: 106 Resp: 179438
Ion Ratio Lower Upper
106 100
91 211.7 171.4 257.2

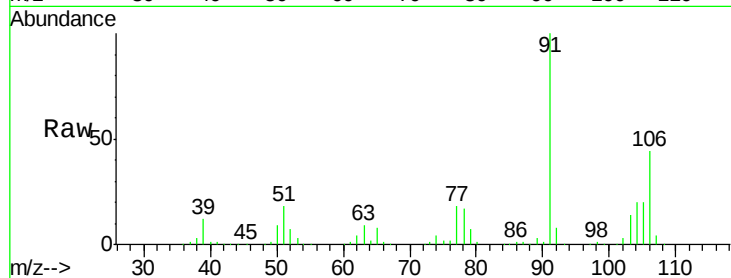




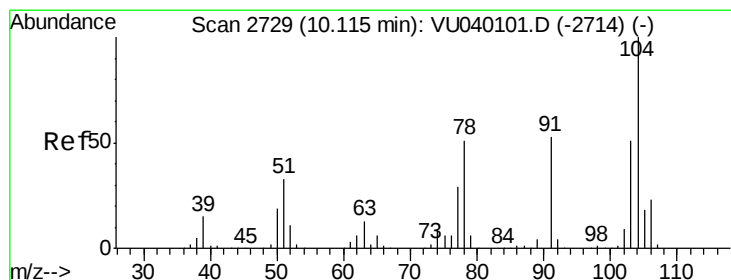
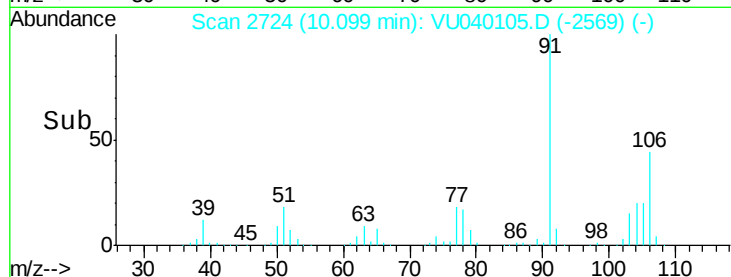
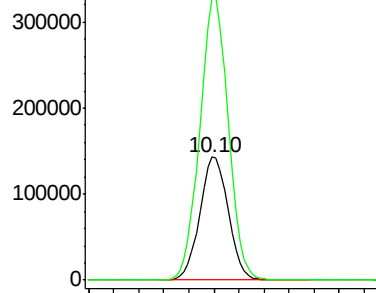
#65
o-Xylene
Concen: 16.683 ug/l
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

Instrument :
MSVOA_U
ClientSampleId :
38022-103019

Tot Ion:106 Resp: 226882
Ion Ratio Lower Upper
106 100
91 230.0 114.2 342.6

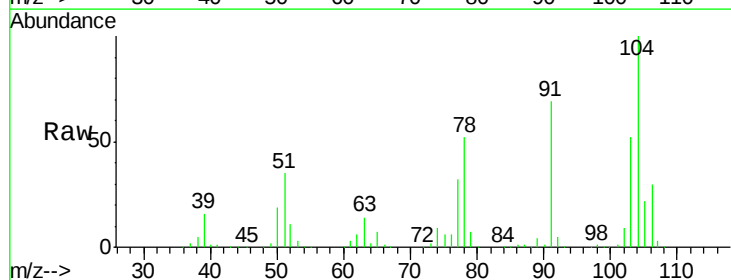


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

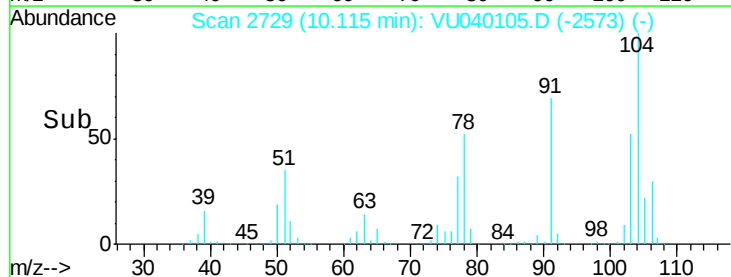
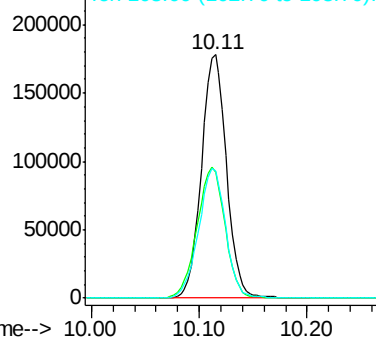


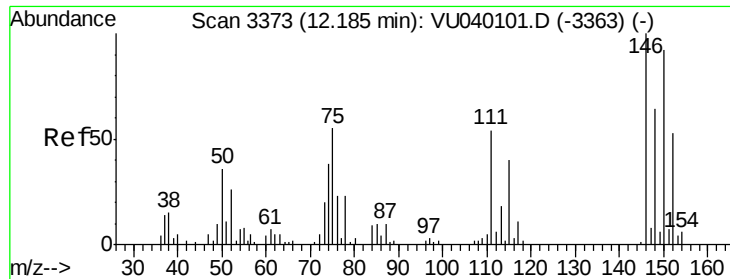
#66
Styrene
Concen: 11.824 ug/l
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU040105.D
Acq: 11 Sep 2020 15:27

Tgt Ion:104 Resp: 287019
Ion Ratio Lower Upper
104 100
78 60.2 43.9 65.9
103 57.5 43.7 65.5



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: 0.999 ug/l

RT: 12.19 min Scan# 3374

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

38022-103019

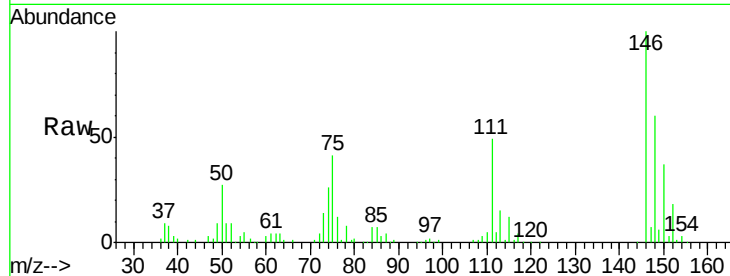
Tot Ion:152 Resp: 11250

Ion Ratio Lower Upper

152 100

115 71.1 0.0 309.0

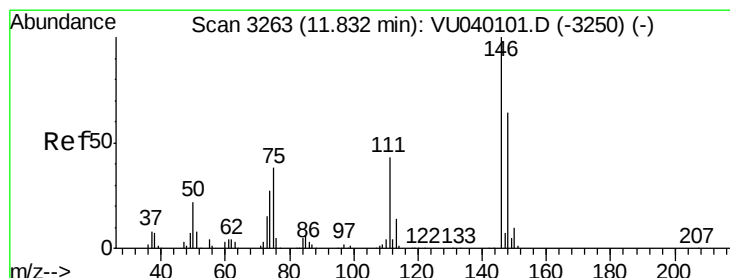
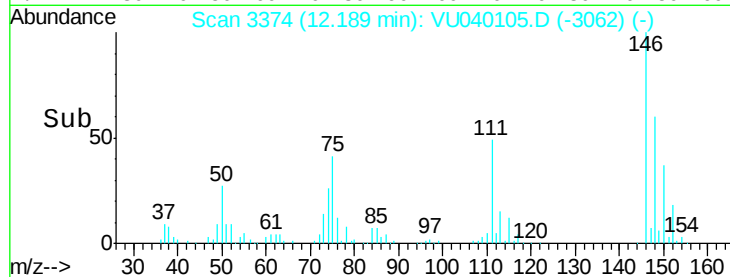
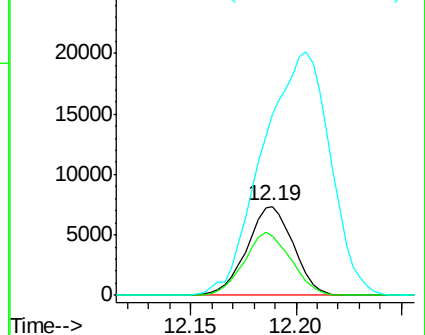
150 397.3 0.0 658.2



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



#83

1,4-Dichlorobenzene

Concen: 14.858 ug/l

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

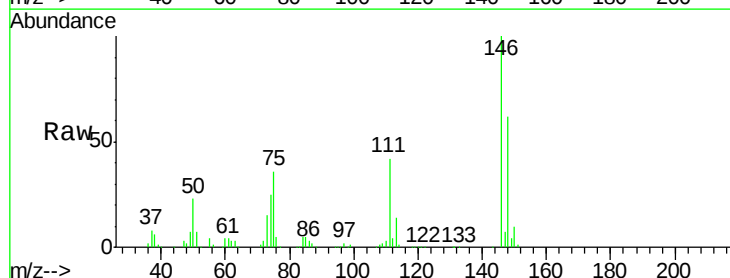
Tgt Ion:146 Resp: 275849

Ion Ratio Lower Upper

146 100

111 42.7 34.2 51.2

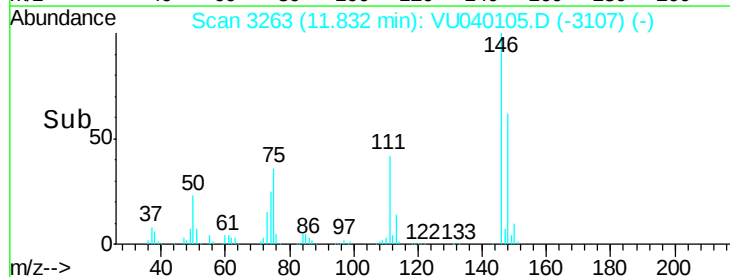
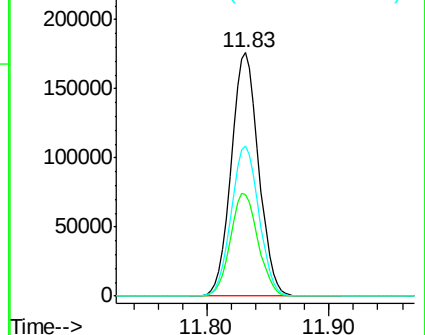
148 62.5 50.2 75.2

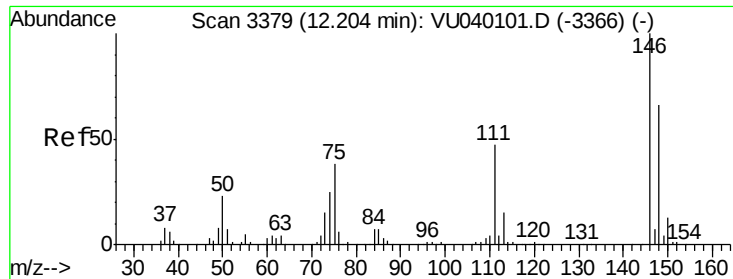


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#85

1,2-Dichlorobenzene

Concen: 14.806 ug/l

RT: 12.21 min Scan# 3380

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

Instrument :

MSVOA_U

ClientSampleId :

38022-103019

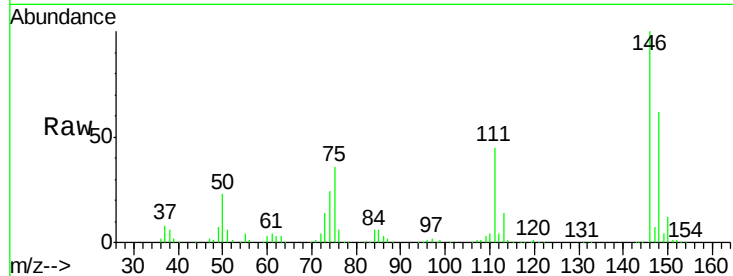
Tot Ion:146 Resp: 262013

Ion Ratio Lower Upper

146 100

111 45.3 22.9 68.7

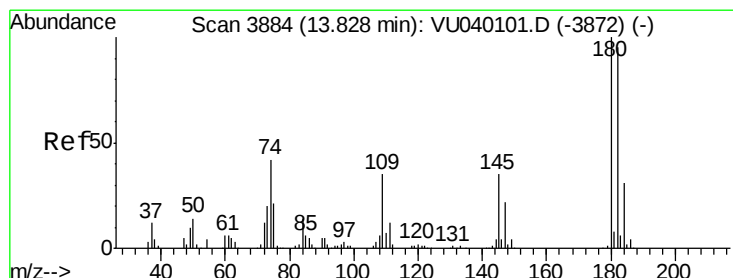
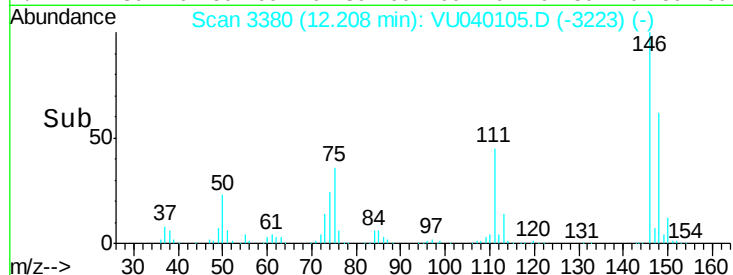
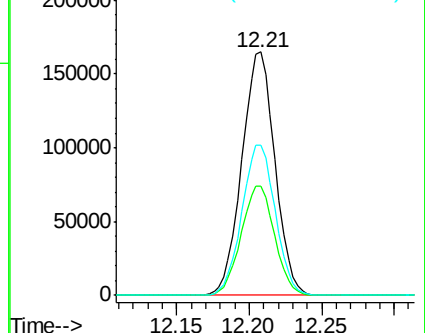
148 62.3 31.1 93.2



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: 20.399 ug/l

RT: 13.83 min Scan# 3885

Delta R.T. 0.00 min

Lab File: VU040105.D

Acq: 11 Sep 2020 15:27

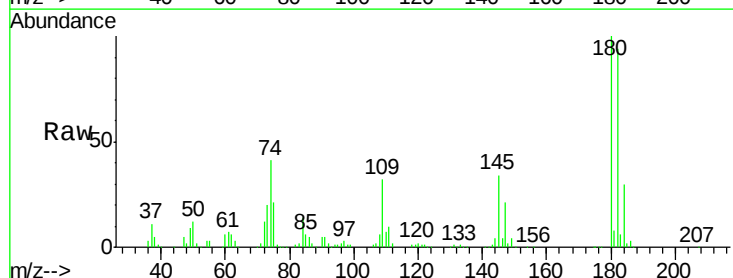
Tgt Ion:180 Resp: 207467

Ion Ratio Lower Upper

180 100

182 94.6 75.0 112.4

145 34.7 27.7 41.5



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

