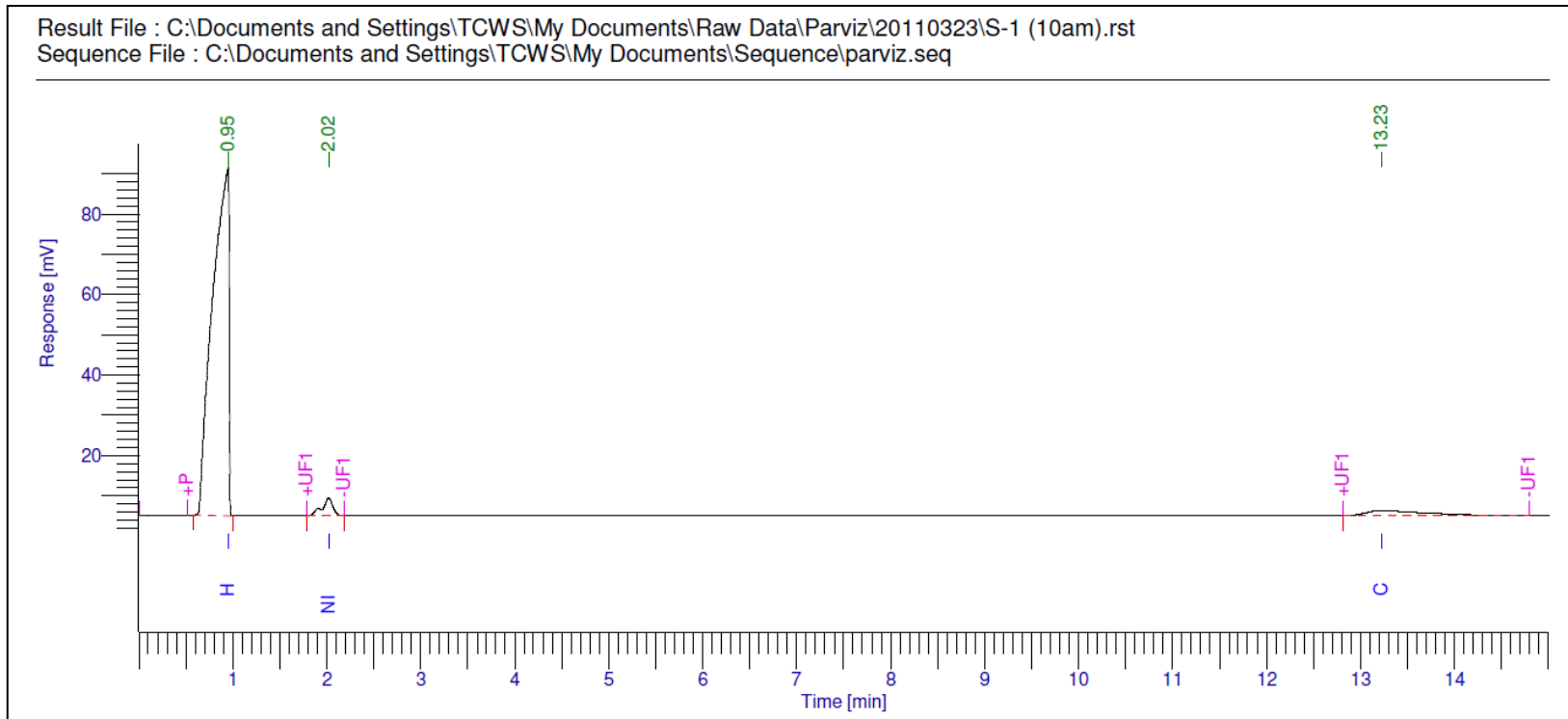


## **APPENDICES**

## APPENDIX A

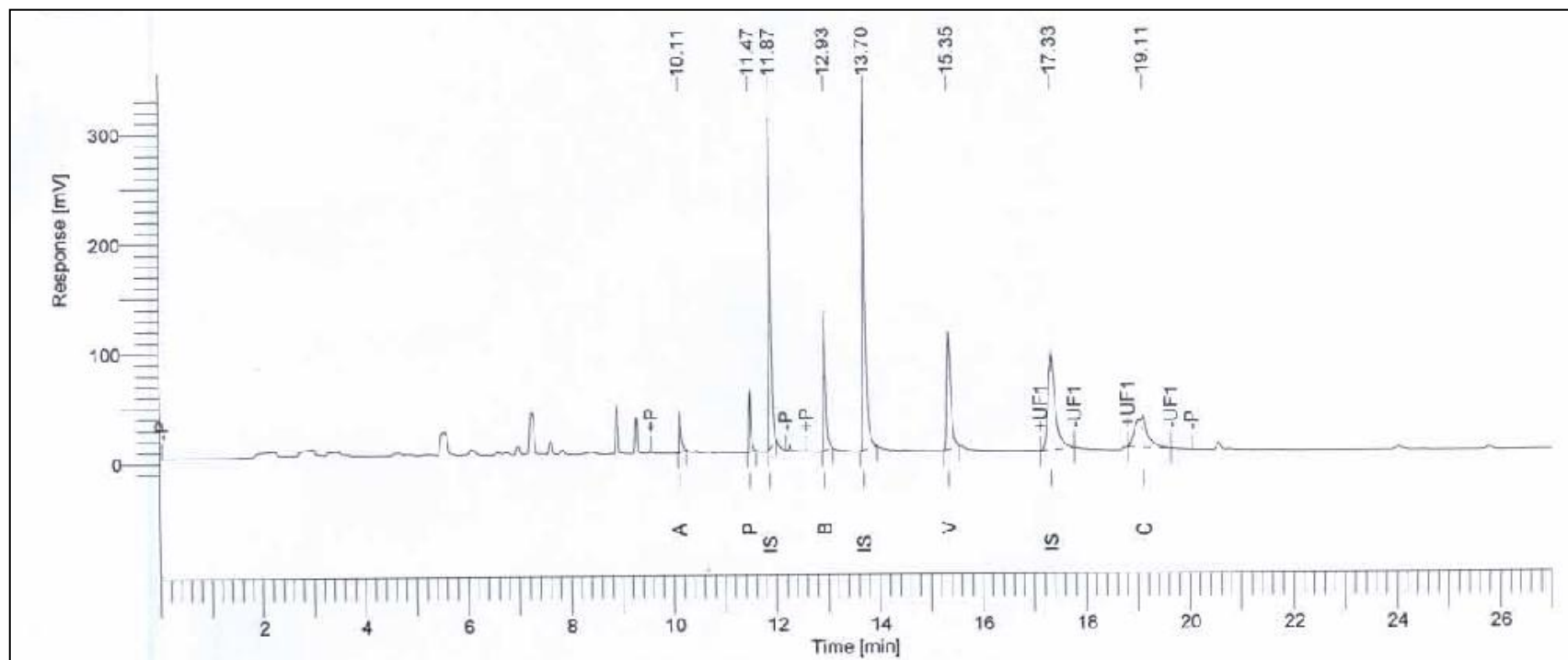
### Biogas Chromatograph



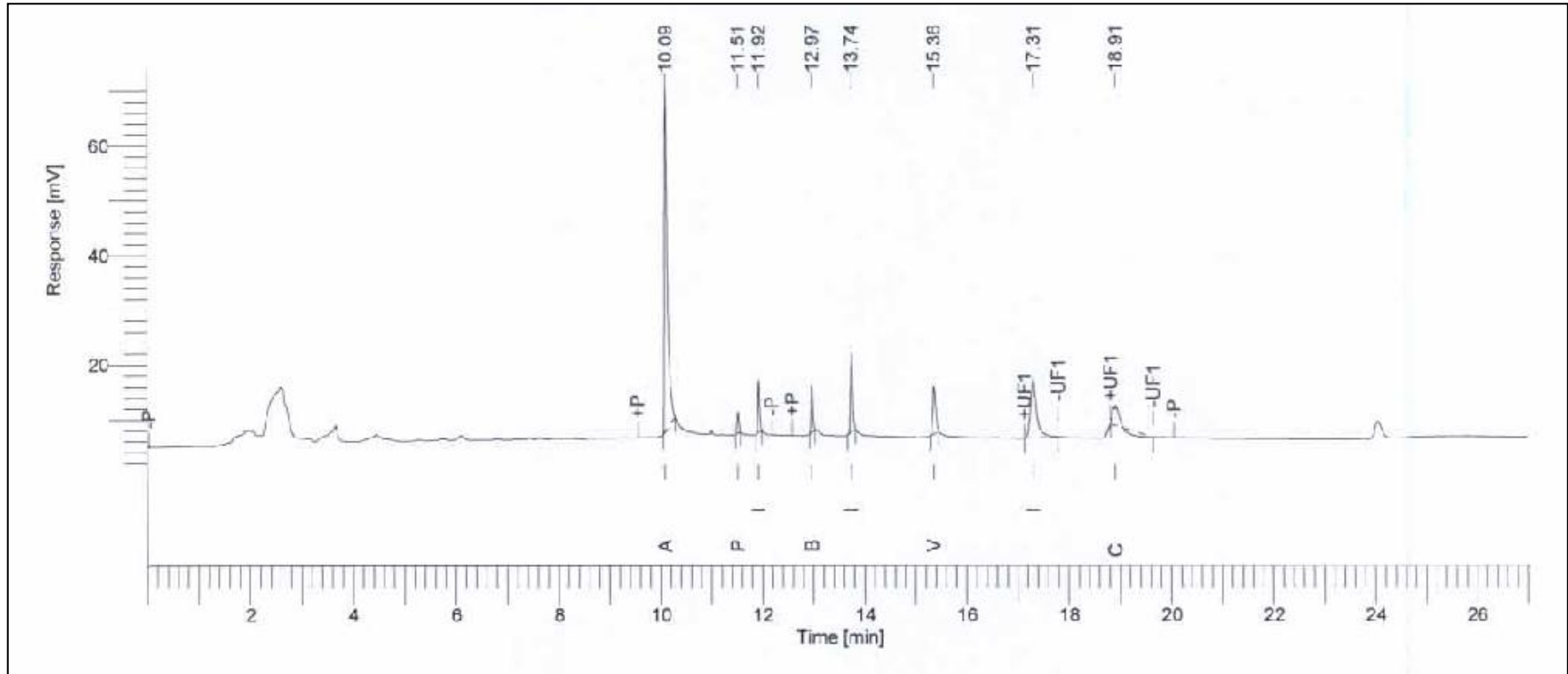
**Figure A.1.** Chromatograph of the biogas produced from the UASB-FF bioreactor

## APPENDIX B

### Volatile Fatty Acids (VFAs) Chromatograph



**Figure A.2.** Chromatogram of standard peak of VFAs solution (volatile free acid mix used as standard)



**Figure A.3.** Chromatograph of effluent VFAs obtained on fermentative hydrogen production from POME from the working UASB-FF bioreactor (volatile free acid mix used as standard)

## LIST OF PUBLICATIONS

1. **Parviz Mohammadi**, Shaliza Ibrahim, Mohamad Suffian Mohamad Annuar, Z.S. Law. Effect of different pre-treatment methods on anaerobic mixed microflora for hydrogen production and COD reduction from palm oil mill effluent. *Journal of Cleaner Production*, 19 (2011) 1654-58. (ISI)
2. **Parviz Mohammadi**, Shaliza Ibrahim, Mohamad Suffian Mohamad Annuar, Shahin Ghafari, S. Vikineswary, Aliakbar Zinatizadeh. Influences of environmental and operational factors on dark fermentative hydrogen production: A review". *Clean-Soil, Air, Water*, 40 (2012) 1297-1305. (ISI)
3. **Parviz Mohammadi**, S. Ibrahim, M.S. Mohamad Annuar. Comparative study on effect of various pretreatment methods on the enrichment of hydrogen producing bacteria in anaerobic granulated sludge from brewery wastewater. *The Korean Journal of Chemical Engineering*, 29 (2012) 1347-1351. (ISI)
4. **Parviz Mohammadi**, Shaliza Ibrahim, Mohamad Suffian Mohamad Annuar. Effects of biomass, COD and bicarbonate concentrations on fermentative hydrogen production from POME by granulated sludge". Submitted in *International Journal of Hydrogen Energy*, 37 (2012) 17801-17808. (ISI)
5. **Parviz Mohammadi**, Shaliza Ibrahim, Mohamad Suffian Mohamad Annuar. Optimization of biohydrogen production from palm oil mill effluent digestion in an up-flow anaerobic sludge fixed film bioreactor. Submitted in *Journal of Cleaner Production*, (2012), under revision, (ISI).