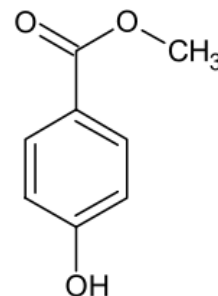
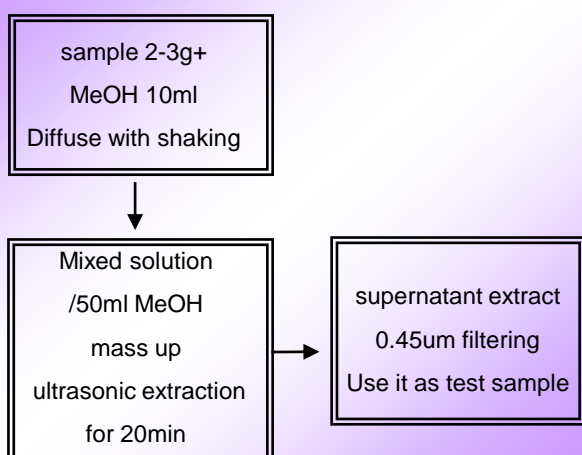


Phenoxy ethanol & Methyl paraben Analysis by PDA(Photodiode Array)

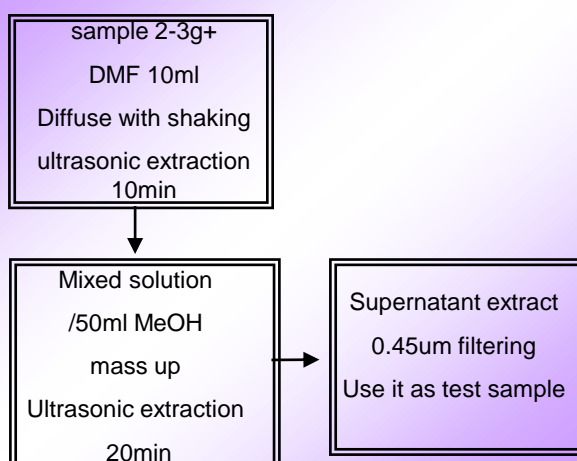


<Preconditioning for Sample>

A species of Skin toner or Lotion



A species of Cream or Sunblock



YL 9100 HPLC

Mobile phase : A-ultra pure water 0.1% Acetic acid, B-MeOH

<Gradient Program>

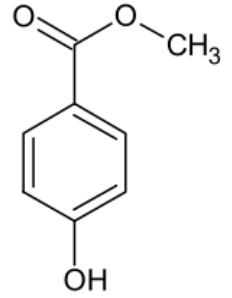
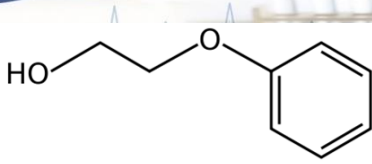
Column Oven : 35°C

Detector : PDA (257nm)

Column : C18
(4.6*250mm, 5um)

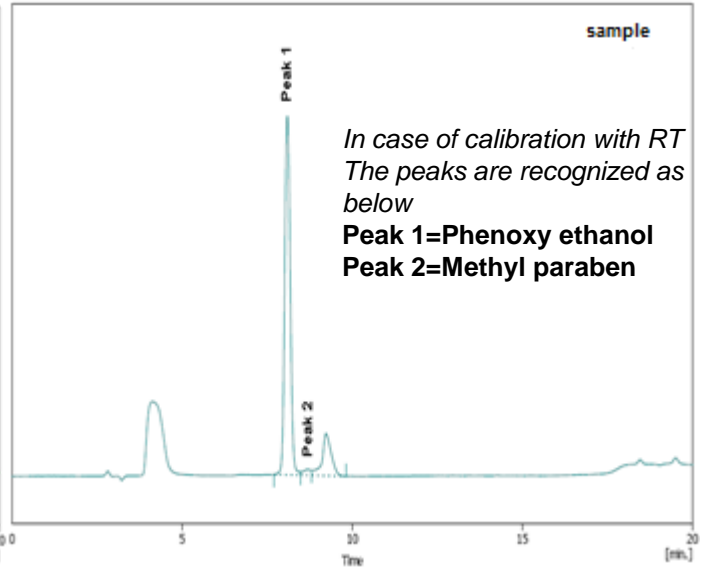
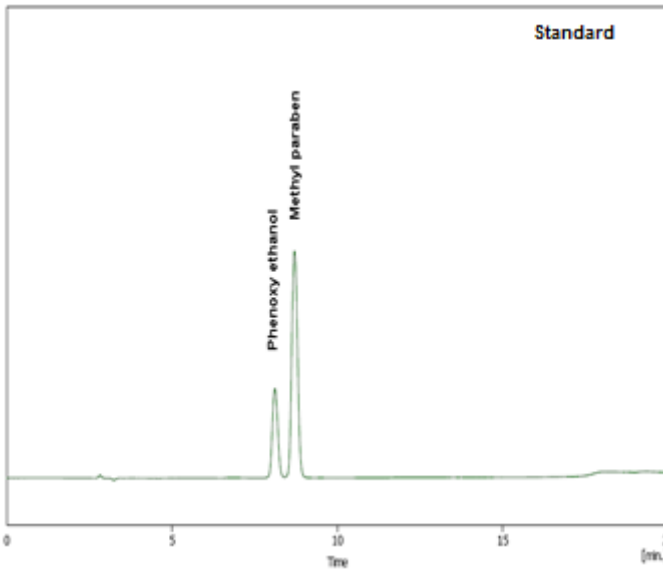
Injection Volumn :
20ul sample loop

Time(min)	(ml/min)	A	B
0	1	55	45
5	1	50	50
8	1	40	60
12	1	30	70
19	1	0	100
22	1	0	100
23	1	55	45

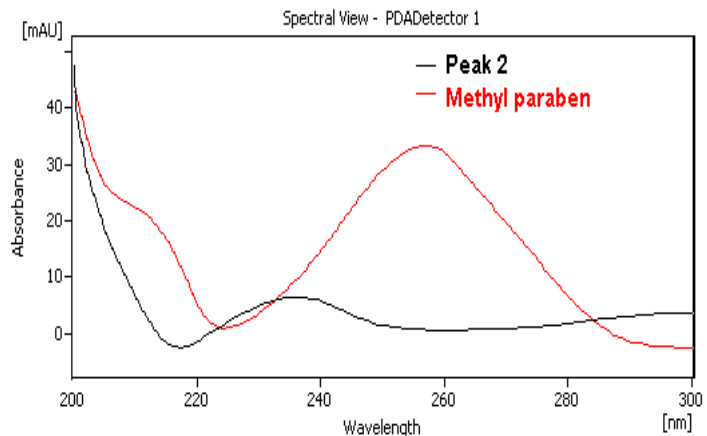
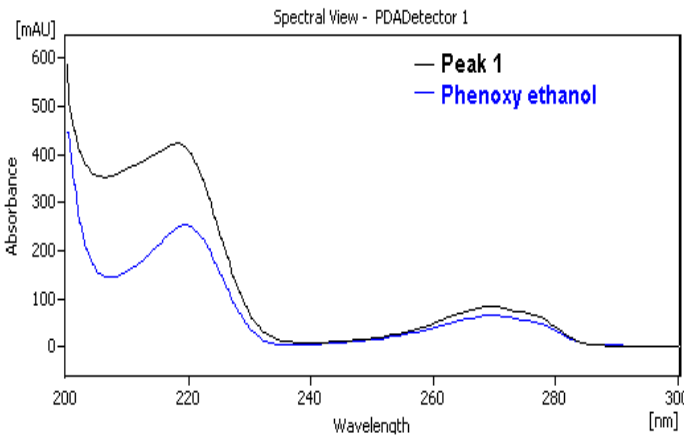


Phenoxy ethanol & Methyl paraben Analysis by PDA(Photodiode Array)

<Chromatogram>



<Comparison to each components by PDA spectrums>



Peak 1 and Phenoxy ethanol are same **spectrum pattern** each so it can be recognized as same components, **Peak 2** and Methyl paraben are different spectrum pattern each and **same RT but it could be judged as different impurities.**