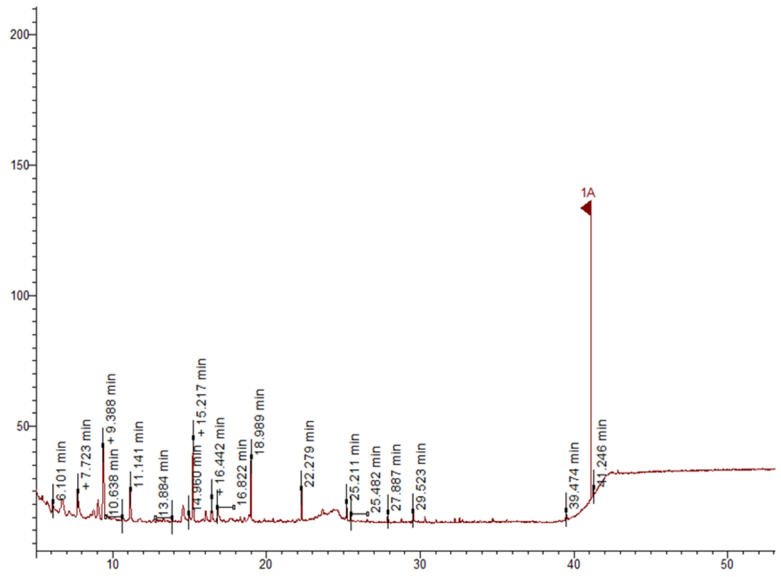

Figure S1 GC-MS/MS chromatogram of water extract of flower of safflower (*Carthamus tinctorius* L.) with the corresponding mass spectrum for peak at retention time of safflower discussed in this study are: 4H-Pyran-4-one, 2,3-dihydro-3,5-dihydroxy-6-methyl- (7.72 min), Benzofuran, 2,3-dihydro- (9.38 min), Cyclohexasiloxane, dodecamethyl- (11.14 min), 3-Isopropoxy-1,1,1,7,7,7-hexamethyl-3,5,5-tris(trimethylsiloxy)tetrasiloxane (15.22 min), 3,4-Dihydroxyphenylglycol, 4TMS derivative (18.99 min).

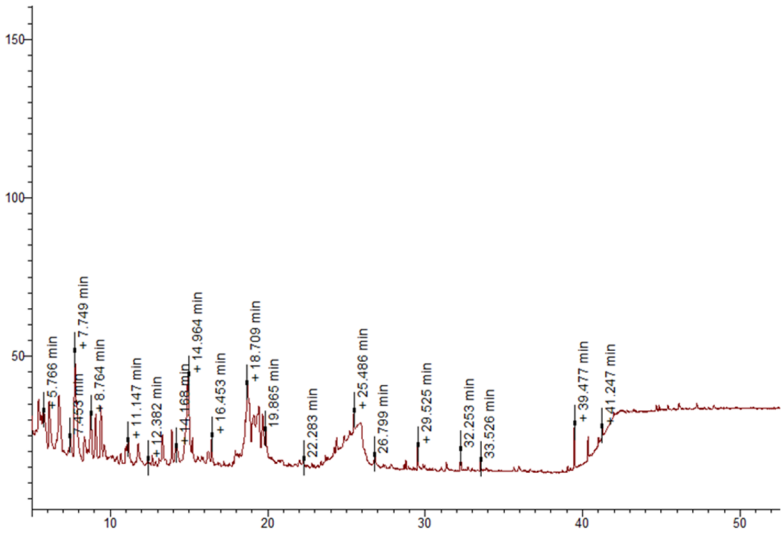

Figure S2 GC-MS/MS chromatogram of ethanolic extract of flower of safflower (*Carthamus tinctorius* L.) with the corresponding mass spectrum for peak at retention time of safflower discussed in this research are: 3-Deoxy-d-mannonic acid (19.44 min), 4H-Pyran-4-one, 2,3-

dihydro-3,5-dihydroxy-6-methyl- (7.75 min), Cyclopentanol (6.74 min), Guanosine (14.97 min), l-Pyrrolid-2-one, N-carboxyhydrazide (14.89 min).

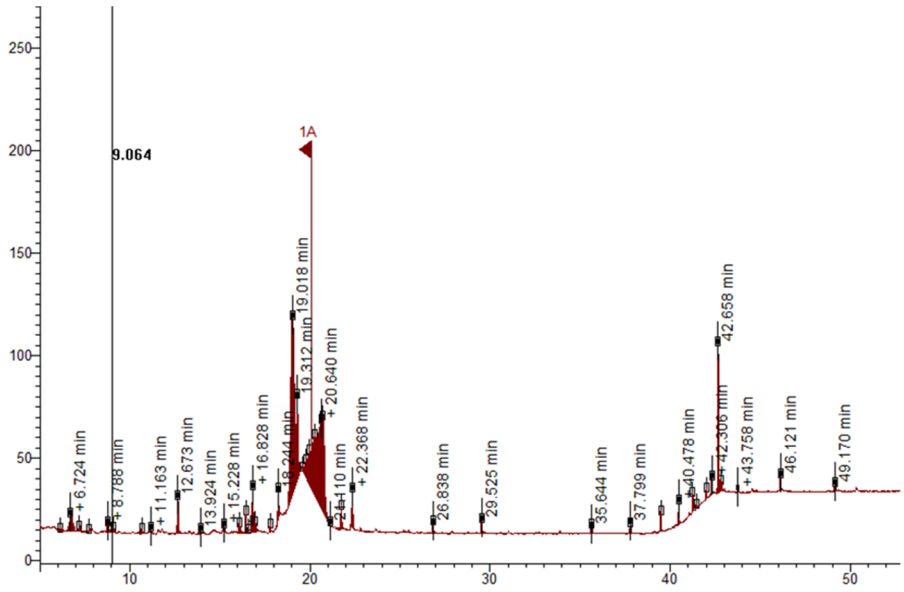

Figure S3. GC-MS/MS chromatogram of water extract of heartwood of yellow vine (*Coscinium fenestratum* (Goetgh.) with the corresponding mass spectrum for peak at retention time of safflower discussed in this research are: Tetraacetyl-d-xylonic nitrile (19.02 min), Inositol, 1-deoxy- (20.64 min), d-Gala-l-ido-octonic amide (19.63 min), Thieno[2,3-b]pyridine,3-amino-2-(3,3-dimethyl-3,4-dihydroisoquinolin-1-yl)-4,6-dimethyl- (42.66 min), Megastigmatrienone (17.81 min).

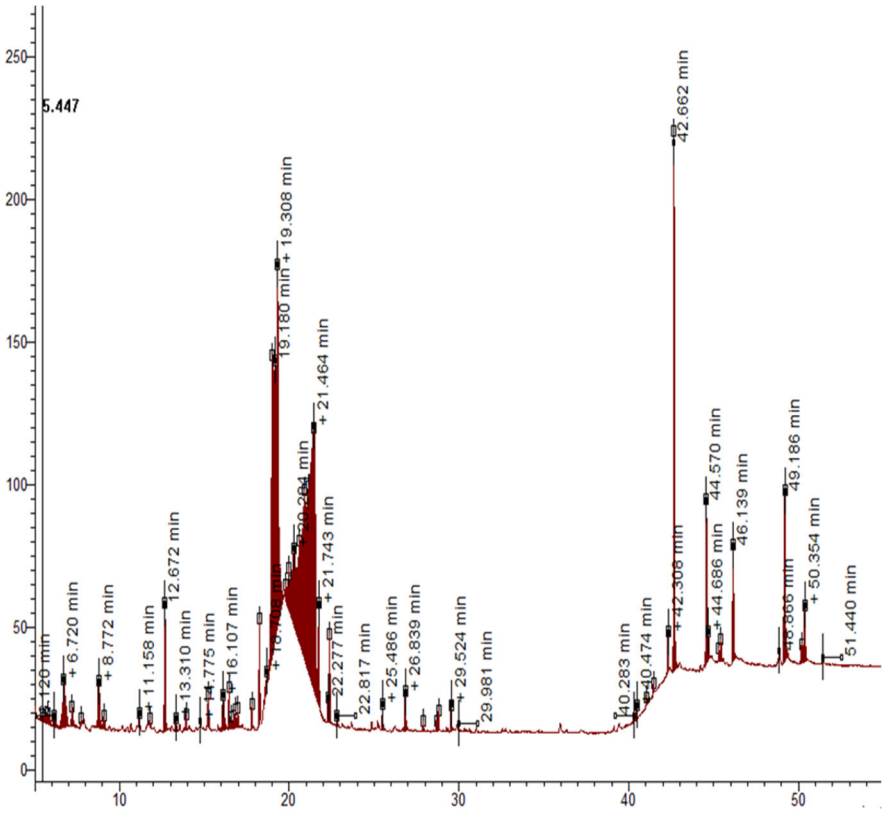

Figure S4. GC-MS/MS chromatogram of ethanolic extract of heartwood of yellow vine (*Coscinium fenestratum* (Goetgh.) with the corresponding mass spectrum for peak at retention time of safflower discussed in this research are: Inositol, 1-deoxy (21.13 min), Megastigmatrienone (19.32 min), Tetraacetyl-d-xylonic nitrile (19.18 min), (E)-2,6-Dimethoxy-4-(prop-1-en-1-yl)phenol (20.90 min), d-Gala-l-ido-octonic amide (20.28 min).

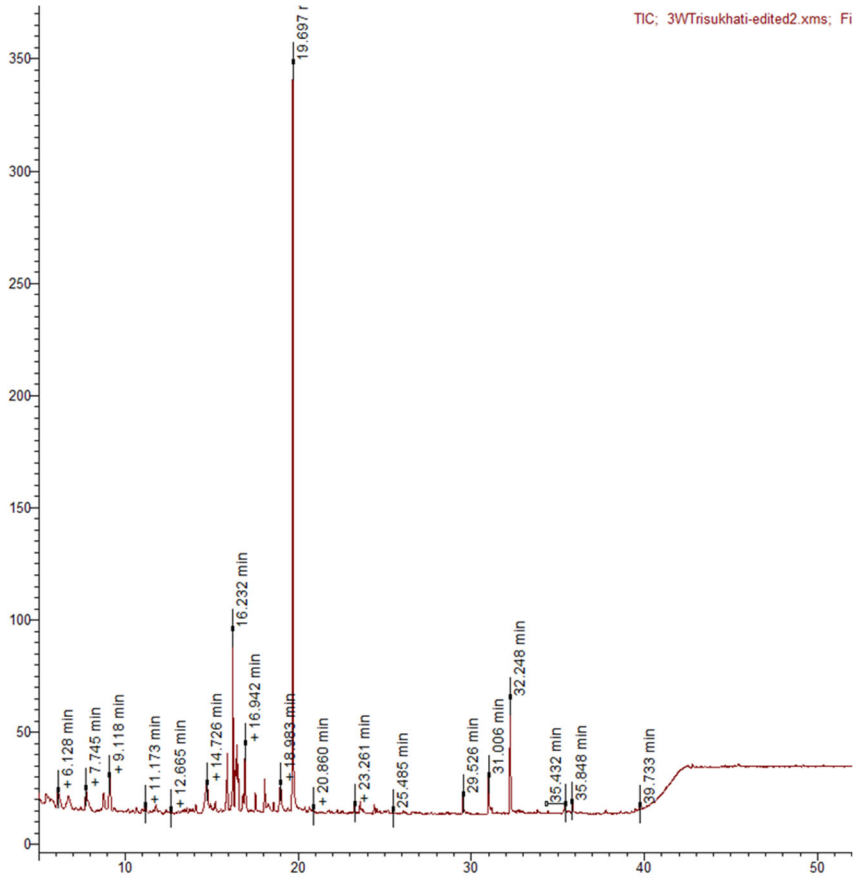

Figure S5. GC-MS/MS chromatogram of water extract of rhizome of ginger (*Zingiber officinale* Roscoe.) with the corresponding mass spectrum for peak at retention time of safflower discussed in this research are: 2-Butanone, 4-(4-hydroxy-3-methoxyphenyl)- (19.70 min), (1S,5S)-2-Methyl-5-((R)-6-methylhept-5-en-2-yl)bicyclo[3.1.0]hex-2-ene (16.24 min), 1-(4-Hydroxy-3-methoxyphenyl)dec-4-en-3-one (32.25 min), 2-Formyl-9-[.beta.-d-ribofuranosyl]hypoxanthine (14.72 min), (1S,5S)-4-Methylene-1-((R)-6-methylhept-5-en-2-yl)bicyclo[3.1.0]hexane (16.95 min).

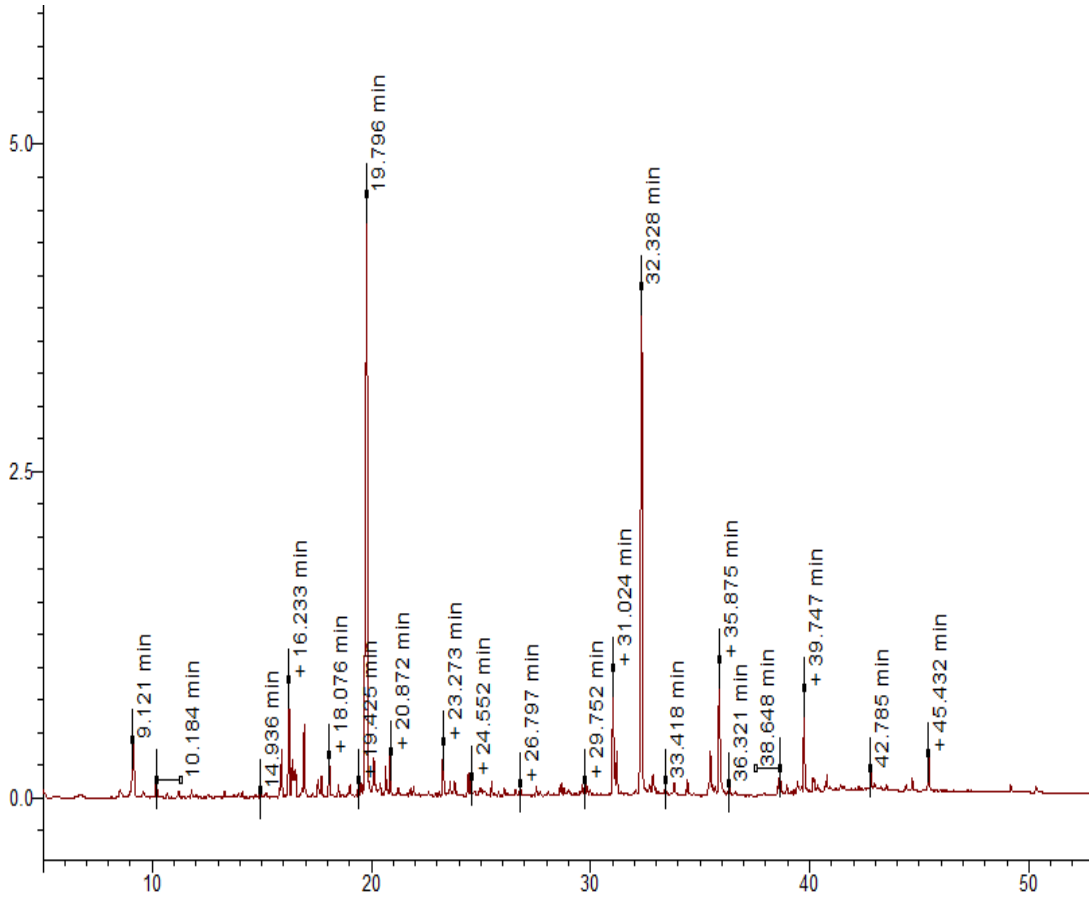

Figure S6. GC-MS/MS chromatogram of ethanolic extract of rhizome of ginger (*Zingiber officinale* Roscoe.) with the corresponding mass spectrum for peak at retention time of safflower discussed in this research are: Butan-2-one, 4-(3-hydroxy-2-methoxyphenyl)- (19.80 min), 1-(4-Hydroxy-3-methoxyphenyl)dec-4-en-3-one (32.33 min), 1-(4-Hydroxy-3-methoxyphenyl)dodec-4-en-3-one (35.87 min), (E)-1-(4-Hydroxy-3-methoxyphenyl)dec-3-en-5-one (31.02 min), 1-(4-Hydroxy-3-methoxyphenyl)tetradec-4-en-3-one (39.74 min).