

Table 5. Accuracy zero-order test: comparison of exact equilibrium distances and frequencies obtained by *Mathematica* with that obtained by complex*32 FORTRAN

r_1	0.1231504701683934345387032565803868486594916 - 0.3536800460814981642626966453433357184356536 I, (0.12315047016839343453870325658036835, <u>-0.35368004608149816426269664534333264</u>)
r_2	0.1862499468104559603672577100882530996652251 - 0.0009568679683040946358665744706961229505364 I, (0.18624994681045596036725771008824791, <u>-0.95686796830409463586657447070101734E-03</u>)
r_3	0.1512344311073536845504236335705461591210482 - 0.2401445972468157831474340774589792446818607 I (0.15123443110735368455042363357052987, <u>-0.24014459724681578314743407745897438</u>)
V_0	-2.654083787724441952762201612791288151281689 - 0.529224254511295065217308699415878574556542 I
ω_3^2	197.5930860461841266329421929151182841972067 - 122.8558183610179037095637242060526336683516 I, (197.59308604618412663294219291515503, <u>-122.85581836101790370956372420603861</u>)
ω_2^2	106.0056121564825247366153569333717317767272 + 135.5626032358547573517825328947537232163496 I, (106.00561215648252473661535693336922, <u>135.56260323585475735178253289477744</u>)
ω_1^2	-13.23310197243430077133889398703338476991733 + 19.39193190490776659923236751007257169513257 I (-13.233101972434300771338893987032114, <u>19.391931904907766599232367510075789</u>)