Supplementary Material for

**Electrochemical and thermodynamic properties of 1-phenyl-3-(phenylamino)propan-1-one with Na2WO4 on N80 Steel**

This file includes raw data used for making figures (Figure 4, 5, 7 and 8). In addition, the file contains raw datum for measuring the structure characterization of synthetic product.

**Table and Legends**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Blank** | | **1mM** | | **3mM** | | **5mM** | | **10mM** | |
| Current | Potential (V) | Current | Potential (V) | Current | Potential (V) | Current | Potential (V) | Current | Potential (V) |
| 0.0086 | -0.50179 | 9.63E-04 | -0.49111 | 0.00145 | -0.51151 | 5.45E-04 | -0.45705 | 0.00229 | -0.52501 |
| 0.00847 | -0.50129 | 9.46E-04 | -0.4906 | 0.00143 | -0.51097 | 5.38E-04 | -0.45656 | 0.00225 | -0.5245 |
| 0.00836 | -0.50078 | 9.35E-04 | -0.49009 | 0.00141 | -0.51048 | 5.35E-04 | -0.45605 | 0.00222 | -0.52401 |
| 0.00824 | -0.50028 | 9.24E-04 | -0.48959 | 0.00138 | -0.50998 | 5.30E-04 | -0.45555 | 0.00218 | -0.52351 |
| 0.00813 | -0.49979 | 9.12E-04 | -0.48909 | 0.00136 | -0.50948 | 5.26E-04 | -0.45505 | 0.00215 | -0.52301 |
| 0.00802 | -0.49929 | 9.00E-04 | -0.48859 | 0.00135 | -0.50897 | 5.21E-04 | -0.45454 | 0.00212 | -0.5225 |
| 0.00791 | -0.49878 | 8.89E-04 | -0.4881 | 0.00133 | -0.50847 | 5.17E-04 | -0.45404 | 0.00209 | -0.522 |
| 0.0078 | -0.49828 | 8.79E-04 | -0.48761 | 0.00131 | -0.50797 | 5.14E-04 | -0.45354 | 0.00206 | -0.52151 |
| 0.0077 | -0.49779 | 8.70E-04 | -0.4871 | 0.00129 | -0.50748 | 5.11E-04 | -0.45304 | 0.00203 | -0.52101 |
| 0.00759 | -0.49729 | 8.60E-04 | -0.4866 | 0.00127 | -0.50698 | 5.08E-04 | -0.45254 | 0.002 | -0.5205 |
| 0.00749 | -0.49679 | 8.51E-04 | -0.4861 | 0.00126 | -0.50648 | 5.05E-04 | -0.45203 | 0.00197 | -0.52 |
| 0.0074 | -0.4963 | 8.42E-04 | -0.4856 | 0.00124 | -0.50598 | 5.02E-04 | -0.45153 | 0.00195 | -0.51949 |
| 0.0073 | -0.4958 | 8.34E-04 | -0.4851 | 0.00123 | -0.50547 | 4.98E-04 | -0.45103 | 0.00192 | -0.51899 |
| 0.00721 | -0.4953 | 8.26E-04 | -0.4846 | 0.00121 | -0.50499 | 4.94E-04 | -0.45052 | 0.00189 | -0.51849 |
| 0.00711 | -0.49479 | 8.19E-04 | -0.48409 | 0.0012 | -0.50449 | 4.92E-04 | -0.45002 | 0.00187 | -0.51799 |
| 0.00702 | -0.4943 | 8.11E-04 | -0.48359 | 0.00119 | -0.50398 | 4.89E-04 | -0.44952 | 0.00185 | -0.5175 |
| 0.00693 | -0.4938 | 8.03E-04 | -0.4831 | 0.00117 | -0.50348 | 4.85E-04 | -0.44903 | 0.00182 | -0.517 |
| 0.00684 | -0.49329 | 7.93E-04 | -0.48259 | 0.00116 | -0.50297 | 4.83E-04 | -0.44853 | 0.0018 | -0.5165 |
| 0.00675 | -0.49279 | 7.84E-04 | -0.4821 | 0.00115 | -0.50248 | 4.80E-04 | -0.44803 | 0.00178 | -0.51601 |
| 0.00666 | -0.49229 | 7.76E-04 | -0.48159 | 0.00114 | -0.50198 | 4.77E-04 | -0.44754 | 0.00176 | -0.51551 |
| 0.00657 | -0.49179 | 7.71E-04 | -0.48108 | 0.00113 | -0.50148 | 4.75E-04 | -0.44703 | 0.00173 | -0.51501 |
| 0.00649 | -0.49129 | 7.66E-04 | -0.48059 | 0.00111 | -0.50098 | 4.73E-04 | -0.44653 | 0.00171 | -0.5145 |
| 0.0064 | -0.49079 | 7.65E-04 | -0.48009 | 0.0011 | -0.50047 | 4.71E-04 | -0.44604 | 0.00169 | -0.514 |
| 0.00632 | -0.49029 | 7.61E-04 | -0.47959 | 0.00109 | -0.49996 | 4.69E-04 | -0.44553 | 0.00167 | -0.51349 |
| 0.00624 | -0.48978 | 7.57E-04 | -0.47908 | 0.00108 | -0.49947 | 4.66E-04 | -0.44502 | 0.00165 | -0.51299 |
| 0.00616 | -0.48927 | 7.52E-04 | -0.47858 | 0.00107 | -0.49896 | 4.63E-04 | -0.44453 | 0.00163 | -0.51249 |
| 0.00608 | -0.48878 | 7.46E-04 | -0.47809 | 0.00106 | -0.49846 | 4.61E-04 | -0.44403 | 0.00161 | -0.51199 |
| 0.006 | -0.48828 | 7.41E-04 | -0.4776 | 0.00105 | -0.49797 | 4.58E-04 | -0.44353 | 0.00159 | -0.51149 |
| 0.00592 | -0.48778 | 7.36E-04 | -0.47709 | 0.00104 | -0.49747 | 4.56E-04 | -0.44303 | 0.00157 | -0.51098 |
| 0.00584 | -0.48729 | 7.31E-04 | -0.4766 | 0.00103 | -0.49698 | 4.54E-04 | -0.44252 | 0.00156 | -0.51048 |
| 0.00577 | -0.48679 | 7.28E-04 | -0.47609 | 0.00102 | -0.49648 | 4.52E-04 | -0.44202 | 0.00154 | -0.50999 |
| 0.00569 | -0.48629 | 7.23E-04 | -0.47559 | 0.00101 | -0.49598 | 4.49E-04 | -0.44152 | 0.00152 | -0.50948 |
| 0.00562 | -0.48579 | 7.19E-04 | -0.47509 | 0.001 | -0.49548 | 4.47E-04 | -0.44102 | 0.0015 | -0.50897 |
| 0.00554 | -0.4853 | 7.14E-04 | -0.47459 | 9.92E-04 | -0.49498 | 4.46E-04 | -0.44052 | 0.00148 | -0.50847 |
| 0.00547 | -0.48479 | 7.09E-04 | -0.47408 | 9.83E-04 | -0.49447 | 4.44E-04 | -0.44002 | 0.00147 | -0.50797 |
| 0.0054 | -0.48429 | 7.05E-04 | -0.47358 | 9.73E-04 | -0.49397 | 4.42E-04 | -0.43952 | 0.00145 | -0.50748 |
| 0.00533 | -0.48378 | 7.00E-04 | -0.47308 | 9.65E-04 | -0.49347 | 4.41E-04 | -0.43903 | 0.00143 | -0.50698 |
| 0.00526 | -0.48328 | 6.96E-04 | -0.47258 | 9.56E-04 | -0.49296 | 4.39E-04 | -0.43853 | 0.00142 | -0.50648 |
| 0.00519 | -0.48279 | 6.91E-04 | -0.47208 | 9.48E-04 | -0.49247 | 4.36E-04 | -0.43803 | 0.0014 | -0.50598 |
| 0.00512 | -0.48229 | 6.86E-04 | -0.47157 | 9.39E-04 | -0.49196 | 4.34E-04 | -0.43753 | 0.00138 | -0.50547 |
| 0.00505 | -0.4818 | 6.81E-04 | -0.47108 | 9.31E-04 | -0.49146 | 4.32E-04 | -0.43703 | 0.00137 | -0.50499 |
| 0.00499 | -0.48129 | 6.76E-04 | -0.47057 | 9.23E-04 | -0.49096 | 4.30E-04 | -0.43653 | 0.00135 | -0.50449 |
| 0.00492 | -0.48079 | 6.72E-04 | -0.47006 | 9.14E-04 | -0.49046 | 4.28E-04 | -0.43603 | 0.00134 | -0.50398 |
| 0.00485 | -0.48029 | 6.70E-04 | -0.46956 | 9.07E-04 | -0.48996 | 4.26E-04 | -0.43553 | 0.00132 | -0.50348 |
| 0.00479 | -0.47979 | 6.67E-04 | -0.46906 | 8.99E-04 | -0.48945 | 4.23E-04 | -0.43502 | 0.00131 | -0.50298 |
| 0.00473 | -0.47928 | 6.66E-04 | -0.46857 | 8.91E-04 | -0.48894 | 4.21E-04 | -0.43452 | 0.0013 | -0.50248 |
| 0.00466 | -0.47878 | 6.63E-04 | -0.46807 | 8.83E-04 | -0.48845 | 4.19E-04 | -0.43401 | 0.00128 | -0.50198 |
| 0.0046 | -0.47828 | 6.59E-04 | -0.46757 | 8.75E-04 | -0.48796 | 4.17E-04 | -0.43352 | 0.00127 | -0.50148 |
| 0.00454 | -0.4778 | 6.56E-04 | -0.46707 | 8.67E-04 | -0.48746 | 4.15E-04 | -0.43302 | 0.00126 | -0.50098 |
| 0.00448 | -0.4773 | 6.53E-04 | -0.46657 | 8.59E-04 | -0.48697 | 4.14E-04 | -0.43251 | 0.00124 | -0.50048 |
| 0.00442 | -0.47679 | 6.49E-04 | -0.46608 | 8.52E-04 | -0.48646 | 4.13E-04 | -0.43201 | 0.00123 | -0.49997 |
| 0.00436 | -0.4763 | 6.45E-04 | -0.46558 | 8.44E-04 | -0.48596 | 4.11E-04 | -0.4315 | 0.00122 | -0.49948 |
| 0.00431 | -0.47579 | 6.42E-04 | -0.46508 | 8.37E-04 | -0.48546 | 4.10E-04 | -0.431 | 0.00121 | -0.49897 |
| 0.00425 | -0.4753 | 6.38E-04 | -0.46457 | 8.30E-04 | -0.48496 | 4.08E-04 | -0.4305 | 0.00119 | -0.49847 |
| 0.00419 | -0.4748 | 6.34E-04 | -0.46407 | 8.23E-04 | -0.48446 | 4.06E-04 | -0.43 | 0.00118 | -0.49798 |
| 0.00414 | -0.47429 | 6.30E-04 | -0.46357 | 8.16E-04 | -0.48395 | 4.04E-04 | -0.4295 | 0.00117 | -0.49748 |
| 0.00408 | -0.47379 | 6.26E-04 | -0.46307 | 8.10E-04 | -0.48345 | 4.02E-04 | -0.42901 | 0.00116 | -0.49698 |
| 0.00403 | -0.47328 | 6.22E-04 | -0.46258 | 8.03E-04 | -0.48295 | 4.00E-04 | -0.4285 | 0.00115 | -0.49649 |
| 0.00398 | -0.47278 | 6.19E-04 | -0.46207 | 7.97E-04 | -0.48245 | 3.99E-04 | -0.42801 | 0.00113 | -0.49599 |
| 0.00392 | -0.47228 | 6.15E-04 | -0.46156 | 7.89E-04 | -0.48195 | 3.97E-04 | -0.42751 | 0.00112 | -0.49549 |
| 0.00387 | -0.47179 | 6.12E-04 | -0.46107 | 7.82E-04 | -0.48145 | 3.95E-04 | -0.42701 | 0.00111 | -0.49498 |
| 0.00382 | -0.47128 | 6.09E-04 | -0.46057 | 7.75E-04 | -0.48095 | 3.93E-04 | -0.42652 | 0.0011 | -0.49448 |
| 0.00377 | -0.47078 | 6.06E-04 | -0.46007 | 7.68E-04 | -0.48044 | 3.92E-04 | -0.42601 | 0.00109 | -0.49398 |
| 0.00372 | -0.47027 | 6.02E-04 | -0.45956 | 7.61E-04 | -0.47995 | 3.90E-04 | -0.42551 | 0.00108 | -0.49348 |
| 0.00367 | -0.46976 | 5.99E-04 | -0.45906 | 7.54E-04 | -0.47944 | 3.87E-04 | -0.425 | 0.00107 | -0.49297 |
| 0.00362 | -0.46927 | 5.95E-04 | -0.45858 | 7.48E-04 | -0.47894 | 3.85E-04 | -0.42451 | 0.00106 | -0.49248 |
| 0.00358 | -0.46877 | 5.92E-04 | -0.45808 | 7.42E-04 | -0.47844 | 3.84E-04 | -0.42401 | 0.00105 | -0.49197 |
| 0.00353 | -0.46827 | 5.89E-04 | -0.45758 | 7.36E-04 | -0.47794 | 3.82E-04 | -0.42351 | 0.00104 | -0.49147 |
| 0.00349 | -0.46777 | 5.86E-04 | -0.45708 | 7.29E-04 | -0.47745 | 3.81E-04 | -0.423 | 0.00102 | -0.49097 |
| 0.00344 | -0.46728 | 5.83E-04 | -0.45658 | 7.22E-04 | -0.47695 | 3.79E-04 | -0.4225 | 0.00101 | -0.49047 |
| 0.0034 | -0.46678 | 5.78E-04 | -0.45608 | 7.16E-04 | -0.47645 | 3.78E-04 | -0.422 | 0.001 | -0.48996 |
| 0.00335 | -0.46628 | 5.74E-04 | -0.45558 | 7.09E-04 | -0.47595 | 3.76E-04 | -0.4215 | 9.90E-04 | -0.48946 |
| 0.00331 | -0.46578 | 5.70E-04 | -0.45508 | 7.03E-04 | -0.47544 | 3.75E-04 | -0.421 | 9.79E-04 | -0.48895 |
| 0.00327 | -0.46529 | 5.67E-04 | -0.45457 | 6.97E-04 | -0.47493 | 3.73E-04 | -0.4205 | 9.69E-04 | -0.48846 |
| 0.00323 | -0.46478 | 5.64E-04 | -0.45407 | 6.91E-04 | -0.47444 | 3.71E-04 | -0.42 | 9.60E-04 | -0.48797 |
| 0.00318 | -0.46428 | 5.61E-04 | -0.45356 | 6.86E-04 | -0.47394 | 3.68E-04 | -0.41951 | 9.50E-04 | -0.48747 |
| 0.00314 | -0.46378 | 5.58E-04 | -0.45307 | 6.79E-04 | -0.47343 | 3.66E-04 | -0.41902 | 9.40E-04 | -0.48698 |
| 0.0031 | -0.46329 | 5.55E-04 | -0.45257 | 6.73E-04 | -0.47293 | 3.65E-04 | -0.41852 | 9.30E-04 | -0.48647 |
| 0.00306 | -0.46279 | 5.52E-04 | -0.45206 | 6.68E-04 | -0.47243 | 3.63E-04 | -0.41801 | 9.21E-04 | -0.48597 |
| 0.00302 | -0.46229 | 5.48E-04 | -0.45157 | 6.62E-04 | -0.47193 | 3.61E-04 | -0.41751 | 9.11E-04 | -0.48548 |
| 0.00298 | -0.46178 | 5.47E-04 | -0.45106 | 6.56E-04 | -0.47143 | 3.59E-04 | -0.41701 | 9.01E-04 | -0.48498 |
| 0.00294 | -0.46128 | 5.45E-04 | -0.45056 | 6.51E-04 | -0.47092 | 3.57E-04 | -0.41652 | 8.92E-04 | -0.48447 |
| 0.00291 | -0.46078 | 5.45E-04 | -0.45006 | 6.45E-04 | -0.47042 | 3.56E-04 | -0.41601 | 8.83E-04 | -0.48397 |
| 0.00287 | -0.46028 | 5.41E-04 | -0.44956 | 6.39E-04 | -0.46991 | 3.54E-04 | -0.41551 | 8.74E-04 | -0.48346 |
| 0.00283 | -0.45979 | 5.37E-04 | -0.44906 | 6.33E-04 | -0.4694 | 3.52E-04 | -0.415 | 8.65E-04 | -0.48297 |
| 0.0028 | -0.45928 | 5.35E-04 | -0.44857 | 6.27E-04 | -0.46891 | 3.51E-04 | -0.4145 | 8.56E-04 | -0.48247 |
| 0.00276 | -0.45879 | 5.32E-04 | -0.44807 | 6.22E-04 | -0.46842 | 3.48E-04 | -0.41401 | 8.48E-04 | -0.48197 |
| 0.00273 | -0.4583 | 5.28E-04 | -0.44758 | 6.17E-04 | -0.46792 | 3.46E-04 | -0.41351 | 8.39E-04 | -0.48147 |
| 0.00269 | -0.4578 | 5.25E-04 | -0.44708 | 6.11E-04 | -0.46742 | 3.44E-04 | -0.413 | 8.30E-04 | -0.48096 |
| 0.00266 | -0.4573 | 5.21E-04 | -0.44658 | 6.06E-04 | -0.46692 | 3.43E-04 | -0.41249 | 8.21E-04 | -0.48046 |
| 0.00262 | -0.4568 | 5.16E-04 | -0.44608 | 6.01E-04 | -0.46642 | 3.42E-04 | -0.41199 | 8.13E-04 | -0.47996 |
| 0.00259 | -0.4563 | 5.10E-04 | -0.44557 | 5.95E-04 | -0.46592 | 3.40E-04 | -0.41149 | 8.04E-04 | -0.47946 |
| 0.00255 | -0.4558 | 5.05E-04 | -0.44507 | 5.90E-04 | -0.46543 | 3.37E-04 | -0.41098 | 7.96E-04 | -0.47895 |
| 0.00252 | -0.4553 | 5.02E-04 | -0.44457 | 5.85E-04 | -0.46493 | 3.35E-04 | -0.41048 | 7.88E-04 | -0.47845 |
| 0.00248 | -0.4548 | 4.99E-04 | -0.44407 | 5.80E-04 | -0.46442 | 3.33E-04 | -0.40999 | 7.79E-04 | -0.47796 |
| 0.00245 | -0.45429 | 4.97E-04 | -0.44357 | 5.75E-04 | -0.46391 | 3.31E-04 | -0.40949 | 7.71E-04 | -0.47746 |
| 0.00242 | -0.45379 | 4.94E-04 | -0.44307 | 5.70E-04 | -0.46342 | 3.29E-04 | -0.40899 | 7.63E-04 | -0.47696 |
| 0.00239 | -0.45329 | 4.91E-04 | -0.44256 | 5.65E-04 | -0.46292 | 3.27E-04 | -0.4085 | 7.55E-04 | -0.47646 |
| 0.00236 | -0.4528 | 4.88E-04 | -0.44206 | 5.59E-04 | -0.46242 | 3.25E-04 | -0.408 | 7.47E-04 | -0.47596 |
| 0.00233 | -0.4523 | 4.85E-04 | -0.44157 | 5.54E-04 | -0.46192 | 3.23E-04 | -0.4075 | 7.39E-04 | -0.47546 |
| 0.0023 | -0.45179 | 4.81E-04 | -0.44106 | 5.50E-04 | -0.46142 | 3.20E-04 | -0.407 | 7.31E-04 | -0.47495 |
| 0.00227 | -0.45129 | 4.78E-04 | -0.44056 | 5.45E-04 | -0.46092 | 3.18E-04 | -0.4065 | 7.24E-04 | -0.47445 |
| 0.00224 | -0.45079 | 4.74E-04 | -0.44005 | 5.40E-04 | -0.46042 | 3.16E-04 | -0.406 | 7.16E-04 | -0.47395 |
| 0.00221 | -0.45028 | 4.71E-04 | -0.43955 | 5.35E-04 | -0.45992 | 3.13E-04 | -0.40549 | 7.08E-04 | -0.47345 |
| 0.00218 | -0.44978 | 4.69E-04 | -0.43907 | 5.29E-04 | -0.45942 | 3.11E-04 | -0.40499 | 7.01E-04 | -0.47295 |
| 0.00215 | -0.44928 | 4.67E-04 | -0.43857 | 5.24E-04 | -0.45892 | 3.09E-04 | -0.4045 | 6.94E-04 | -0.47245 |
| 0.00212 | -0.44879 | 4.65E-04 | -0.43807 | 5.19E-04 | -0.45842 | 3.07E-04 | -0.404 | 6.87E-04 | -0.47194 |
| 0.00209 | -0.44829 | 4.62E-04 | -0.43757 | 5.14E-04 | -0.45793 | 3.04E-04 | -0.40349 | 6.80E-04 | -0.47144 |
| 0.00206 | -0.44779 | 4.59E-04 | -0.43706 | 5.10E-04 | -0.45743 | 3.02E-04 | -0.40299 | 6.73E-04 | -0.47093 |
| 0.00204 | -0.4473 | 4.55E-04 | -0.43657 | 5.05E-04 | -0.45693 | 3.00E-04 | -0.40249 | 6.66E-04 | -0.47043 |
| 0.00201 | -0.4468 | 4.52E-04 | -0.43607 | 5.00E-04 | -0.45643 | 2.97E-04 | -0.40199 | 6.58E-04 | -0.46993 |
| 0.00198 | -0.4463 | 4.48E-04 | -0.43556 | 4.95E-04 | -0.45593 | 2.95E-04 | -0.40148 | 6.50E-04 | -0.46942 |
| 0.00195 | -0.44581 | 4.45E-04 | -0.43506 | 4.89E-04 | -0.45543 | 2.92E-04 | -0.40098 | 6.43E-04 | -0.46893 |
| 0.00193 | -0.44531 | 4.42E-04 | -0.43455 | 4.84E-04 | -0.45493 | 2.90E-04 | -0.40048 | 6.36E-04 | -0.46843 |
| 0.0019 | -0.44481 | 4.39E-04 | -0.43405 | 4.79E-04 | -0.45442 | 2.87E-04 | -0.39999 | 6.29E-04 | -0.46794 |
| 0.00187 | -0.4443 | 4.36E-04 | -0.43356 | 4.75E-04 | -0.45392 | 2.85E-04 | -0.39949 | 6.23E-04 | -0.46744 |
| 0.00184 | -0.44381 | 4.33E-04 | -0.43306 | 4.70E-04 | -0.45342 | 2.82E-04 | -0.399 | 6.17E-04 | -0.46694 |
| 0.00182 | -0.44331 | 4.30E-04 | -0.43255 | 4.65E-04 | -0.45291 | 2.79E-04 | -0.39849 | 6.10E-04 | -0.46644 |
| 0.00179 | -0.4428 | 4.25E-04 | -0.43204 | 4.60E-04 | -0.45242 | 2.77E-04 | -0.39798 | 6.03E-04 | -0.46594 |
| 0.00177 | -0.4423 | 4.21E-04 | -0.43154 | 4.55E-04 | -0.45191 | 2.74E-04 | -0.3975 | 5.97E-04 | -0.46544 |
| 0.00174 | -0.4418 | 4.17E-04 | -0.43104 | 4.50E-04 | -0.45141 | 2.71E-04 | -0.397 | 5.90E-04 | -0.46495 |
| 0.00172 | -0.4413 | 4.13E-04 | -0.43053 | 4.44E-04 | -0.45091 | 2.69E-04 | -0.39649 | 5.83E-04 | -0.46444 |
| 0.00169 | -0.4408 | 4.09E-04 | -0.43003 | 4.39E-04 | -0.4504 | 2.66E-04 | -0.39598 | 5.76E-04 | -0.46393 |
| 0.00167 | -0.4403 | 4.05E-04 | -0.42954 | 4.34E-04 | -0.4499 | 2.63E-04 | -0.39548 | 5.70E-04 | -0.46344 |
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| 8.94E-04 | -0.38581 | 3.71E-04 | -0.37501 | 5.01E-04 | -0.39537 | 5.46E-04 | -0.34095 | 2.65E-04 | -0.40891 |
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| 9.56E-04 | -0.38481 | 3.98E-04 | -0.37401 | 5.32E-04 | -0.39437 | 5.76E-04 | -0.33994 | 2.86E-04 | -0.40792 |
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| 0.01039 | -0.3133 | 0.00611 | -0.30195 | 0.00792 | -0.32231 | 0.01128 | -0.26788 | 0.00388 | -0.33635 |
| 0.01051 | -0.31279 | 0.00618 | -0.30145 | 0.00802 | -0.32182 | 0.01148 | -0.26739 | 0.00394 | -0.33585 |
| 0.01064 | -0.31229 | 0.00627 | -0.30095 | 0.00815 | -0.32133 | 0.01165 | -0.26689 | 0.004 | -0.33535 |
| 0.01076 | -0.31181 | 0.00634 | -0.30045 | 0.00825 | -0.32083 | 0.01185 | -0.26639 | 0.00408 | -0.33485 |
| 0.01088 | -0.31132 | 0.00643 | -0.29995 | 0.00835 | -0.32032 | 0.01204 | -0.26589 | 0.00412 | -0.33434 |
| 0.01102 | -0.31081 | 0.00652 | -0.29946 | 0.00847 | -0.31982 | 0.01226 | -0.26539 | 0.0042 | -0.33383 |
| 0.01115 | -0.31032 | 0.00661 | -0.29896 | 0.00857 | -0.31933 | 0.01243 | -0.26488 | 0.00424 | -0.33333 |
| 0.01131 | -0.30981 | 0.0067 | -0.29845 | 0.00868 | -0.31883 | 0.01263 | -0.26438 | 0.00432 | -0.33283 |
| 0.01147 | -0.30931 | 0.00679 | -0.29795 | 0.0088 | -0.31832 | 0.01287 | -0.26388 | 0.0044 | -0.33233 |
| 0.01162 | -0.30882 | 0.00688 | -0.29745 | 0.0089 | -0.31781 | 0.01307 | -0.26339 | 0.00444 | -0.33184 |
| 0.01177 | -0.30832 | 0.00697 | -0.29695 | 0.00903 | -0.3173 | 0.01326 | -0.26289 | 0.00452 | -0.33134 |
| 0.01191 | -0.30781 | 0.00706 | -0.29646 | 0.00912 | -0.31681 | 0.01346 | -0.26239 | 0.0046 | -0.33084 |
| 0.01205 | -0.30731 | 0.00714 | -0.29594 | 0.00925 | -0.31631 | 0.01367 | -0.2619 | 0.00464 | -0.33035 |
| 0.01219 | -0.30681 | 0.00723 | -0.29544 | 0.00937 | -0.31581 | 0.01387 | -0.2614 | 0.00472 | -0.32985 |
| 0.01234 | -0.30632 | 0.00732 | -0.29495 | 0.00948 | -0.3153 | 0.01411 | -0.26089 | 0.0048 | -0.32934 |
| 0.01249 | -0.30582 | 0.00741 | -0.29444 | 0.0096 | -0.3148 | 0.01433 | -0.2604 | 0.00488 | -0.32884 |
| 0.01263 | -0.30531 | 0.00751 | -0.29394 | 0.00972 | -0.31429 | 0.01457 | -0.25989 | 0.00496 | -0.32834 |
| 0.01278 | -0.30482 | 0.00761 | -0.29343 | 0.00983 | -0.3138 | 0.01478 | -0.25939 | 0.005 | -0.32784 |
| 0.01293 | -0.30431 | 0.00771 | -0.29293 | 0.00995 | -0.31329 | 0.015 | -0.25889 | 0.00508 | -0.32734 |
| 0.01309 | -0.30381 | 0.00781 | -0.29243 | 0.01008 | -0.31277 | 0.01524 | -0.25839 | 0.00516 | -0.32684 |
| 0.01325 | -0.30332 | 0.00789 | -0.29197 | 0.0102 | -0.31229 | 0.01543 | -0.2579 | 0.00524 | -0.32635 |
| 0.01341 | -0.30281 | 0.00789 | -0.29197 | 0.0102 | -0.31229 | 0.01533 | -0.2562 | 0.00532 | -0.32585 |

**Table 1**: The test results of Potentiodynamic polarization, which were used for plotting the Figure 4(a).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Blank** | | **1mM** | | **3mM** | | **5mM** | | **10mM** | |
| Current | Potential (V) | Current | Potential (V) | Current | Potential (V) | Current | Potential (V) | Current | Potential (V) |
| 0.02886 | -0.69159 | 0.0065 | -0.77124 | 0.00467 | -0.61102 | 0.0034 | -0.62445 | 0.00395 | -0.62018 |
| 0.02777 | -0.68659 | 0.00631 | -0.76624 | 0.00426 | -0.60602 | 0.00305 | -0.61945 | 0.00353 | -0.61518 |
| 0.02678 | -0.68159 | 0.00605 | -0.76124 | 0.00389 | -0.60102 | 0.00278 | -0.61445 | 0.00321 | -0.61018 |
| 0.02581 | -0.67659 | 0.00578 | -0.75624 | 0.00357 | -0.59602 | 0.00254 | -0.60945 | 0.00294 | -0.60518 |
| 0.02506 | -0.67159 | 0.00552 | -0.75124 | 0.00329 | -0.59102 | 0.00233 | -0.60445 | 0.0027 | -0.60018 |
| 0.02413 | -0.66659 | 0.00526 | -0.74624 | 0.00305 | -0.58602 | 0.00215 | -0.59945 | 0.00249 | -0.59518 |
| 0.02322 | -0.66159 | 0.005 | -0.74124 | 0.00281 | -0.58102 | 0.00198 | -0.59445 | 0.00229 | -0.59018 |
| 0.02226 | -0.65659 | 0.00475 | -0.73624 | 0.00259 | -0.57602 | 0.00183 | -0.58945 | 0.00211 | -0.58518 |
| 0.02137 | -0.65159 | 0.0045 | -0.73124 | 0.00238 | -0.57102 | 0.00168 | -0.58445 | 0.00194 | -0.58018 |
| 0.02053 | -0.64659 | 0.00426 | -0.72624 | 0.00219 | -0.56602 | 0.00155 | -0.57945 | 0.00178 | -0.57518 |
| 0.0197 | -0.64159 | 0.00403 | -0.72124 | 0.00201 | -0.56102 | 0.00142 | -0.57445 | 0.00163 | -0.57018 |
| 0.01885 | -0.63659 | 0.00381 | -0.71624 | 0.00184 | -0.55602 | 0.00132 | -0.56945 | 0.0015 | -0.56518 |
| 0.01803 | -0.63159 | 0.00358 | -0.71124 | 0.0017 | -0.55102 | 0.00121 | -0.56445 | 0.00137 | -0.56018 |
| 0.01717 | -0.62659 | 0.00337 | -0.70624 | 0.00155 | -0.54602 | 0.00111 | -0.55945 | 0.00125 | -0.55518 |
| 0.01643 | -0.62159 | 0.00317 | -0.70124 | 0.00142 | -0.54102 | 0.00101 | -0.55445 | 0.00114 | -0.55018 |
| 0.01564 | -0.61659 | 0.00297 | -0.69624 | 0.00129 | -0.53602 | 9.27E-04 | -0.54945 | 0.00104 | -0.54518 |
| 0.01484 | -0.61159 | 0.00279 | -0.69124 | 0.00118 | -0.53102 | 8.55E-04 | -0.54445 | 9.45E-04 | -0.54018 |
| 0.0141 | -0.60659 | 0.00261 | -0.68624 | 0.00109 | -0.52602 | 7.82E-04 | -0.53945 | 8.65E-04 | -0.53518 |
| 0.01333 | -0.60159 | 0.00244 | -0.68124 | 9.88E-04 | -0.52102 | 7.16E-04 | -0.53445 | 7.85E-04 | -0.53018 |
| 0.01262 | -0.59659 | 0.00228 | -0.67624 | 9.02E-04 | -0.51602 | 6.54E-04 | -0.52945 | 7.12E-04 | -0.52518 |
| 0.01189 | -0.59159 | 0.00212 | -0.67124 | 8.19E-04 | -0.51102 | 5.97E-04 | -0.52445 | 6.44E-04 | -0.52018 |
| 0.01119 | -0.58659 | 0.00198 | -0.66624 | 7.43E-04 | -0.50602 | 5.46E-04 | -0.51945 | 5.82E-04 | -0.51518 |
| 0.01052 | -0.58159 | 0.00185 | -0.66124 | 6.75E-04 | -0.50102 | 4.96E-04 | -0.51445 | 5.26E-04 | -0.51018 |
| 0.00985 | -0.57659 | 0.00171 | -0.65624 | 6.14E-04 | -0.49602 | 4.51E-04 | -0.50945 | 4.78E-04 | -0.50518 |
| 0.00921 | -0.57159 | 0.00158 | -0.65124 | 5.64E-04 | -0.49102 | 4.12E-04 | -0.50445 | 4.31E-04 | -0.50018 |
| 0.0086 | -0.56659 | 0.00147 | -0.64624 | 5.17E-04 | -0.48602 | 3.74E-04 | -0.49945 | 3.89E-04 | -0.49518 |
| 0.008 | -0.56159 | 0.00135 | -0.64124 | 4.68E-04 | -0.48102 | 3.39E-04 | -0.49445 | 3.52E-04 | -0.49018 |
| 0.00742 | -0.55659 | 0.00125 | -0.63624 | 4.25E-04 | -0.47602 | 3.07E-04 | -0.48945 | 3.17E-04 | -0.48518 |
| 0.00687 | -0.55159 | 0.00116 | -0.63124 | 3.85E-04 | -0.47102 | 2.78E-04 | -0.48445 | 2.84E-04 | -0.48018 |
| 0.00634 | -0.54659 | 0.00106 | -0.62624 | 3.50E-04 | -0.46602 | 2.52E-04 | -0.47945 | 2.56E-04 | -0.47518 |
| 0.00583 | -0.54159 | 9.73E-04 | -0.62124 | 3.17E-04 | -0.46102 | 2.52E-04 | -0.47445 | 2.30E-04 | -0.47018 |
| 0.00534 | -0.53659 | 8.95E-04 | -0.61624 | 2.87E-04 | -0.45602 | 2.24E-04 | -0.46945 | 2.07E-04 | -0.46518 |
| 0.00489 | -0.53159 | 8.18E-04 | -0.61124 | 2.61E-04 | -0.45102 | 2.02E-04 | -0.46445 | 1.85E-04 | -0.46018 |
| 0.00445 | -0.52659 | 7.46E-04 | -0.60624 | 2.38E-04 | -0.44602 | 1.83E-04 | -0.45945 | 1.66E-04 | -0.45518 |
| 0.00404 | -0.52159 | 6.85E-04 | -0.60124 | 2.15E-04 | -0.44102 | 1.66E-04 | -0.45445 | 1.47E-04 | -0.45018 |
| 0.00365 | -0.51659 | 6.22E-04 | -0.59624 | 1.95E-04 | -0.43602 | 1.51E-04 | -0.44945 | 1.32E-04 | -0.44518 |
| 0.00329 | -0.51159 | 5.60E-04 | -0.59124 | 1.75E-04 | -0.43102 | 1.38E-04 | -0.44445 | 1.17E-04 | -0.44018 |
| 0.00295 | -0.50659 | 5.04E-04 | -0.58624 | 1.56E-04 | -0.42602 | 1.25E-04 | -0.43945 | 1.03E-04 | -0.43518 |
| 0.00264 | -0.50159 | 4.51E-04 | -0.58124 | 1.40E-04 | -0.42102 | 1.14E-04 | -0.43445 | 9.10E-05 | -0.43018 |
| 0.00234 | -0.49659 | 4.04E-04 | -0.57624 | 1.25E-04 | -0.41602 | 1.03E-04 | -0.42945 | 7.90E-05 | -0.42518 |
| 0.00207 | -0.49159 | 3.60E-04 | -0.57124 | 1.11E-04 | -0.41102 | 9.26E-05 | -0.42445 | 6.76E-05 | -0.42018 |
| 0.00181 | -0.48659 | 3.27E-04 | -0.56624 | 9.64E-05 | -0.40602 | 8.30E-05 | -0.41945 | 5.79E-05 | -0.41518 |
| 0.00158 | -0.48159 | 2.85E-04 | -0.56124 | 8.49E-05 | -0.40102 | 7.24E-05 | -0.41445 | 4.86E-05 | -0.41018 |
| 0.00136 | -0.47659 | 2.47E-04 | -0.55624 | 7.23E-05 | -0.39602 | 6.26E-05 | -0.40945 | 3.90E-05 | -0.40518 |
| 0.00116 | -0.47159 | 2.13E-04 | -0.55124 | 5.92E-05 | -0.39102 | 5.31E-05 | -0.40445 | 2.99E-05 | -0.40018 |
| 9.79E-04 | -0.46659 | 1.80E-04 | -0.54624 | 4.66E-05 | -0.38602 | 4.26E-05 | -0.39945 | 2.06E-05 | -0.39518 |
| 8.14E-04 | -0.46159 | 1.50E-04 | -0.54124 | 3.36E-05 | -0.38102 | 3.25E-05 | -0.39445 | 1.08E-05 | -0.39018 |
| 6.55E-04 | -0.45659 | 1.22E-04 | -0.53624 | 2.03E-05 | -0.37602 | 2.24E-05 | -0.38945 | 1.16E-06 | -0.38518 |
| 5.07E-04 | -0.45159 | 9.62E-05 | -0.53124 | 7.14E-06 | -0.37102 | 1.25E-05 | -0.38445 | 1.89E-05 | -0.37518 |
| 3.67E-04 | -0.44659 | 7.16E-05 | -0.52624 | 6.52E-06 | -0.36602 | 1.36E-06 | -0.37945 | 2.90E-05 | -0.37018 |
| 2.39E-04 | -0.44159 | 4.71E-05 | -0.52124 | 3.42E-05 | -0.35602 | 8.98E-06 | -0.37445 | 4.02E-05 | -0.36518 |
| 1.14E-04 | -0.43659 | 2.50E-05 | -0.51624 | 4.82E-05 | -0.35102 | 3.08E-05 | -0.36445 | 5.06E-05 | -0.36018 |
| 6.22E-06 | -0.43159 | 6.27E-06 | -0.51124 | 6.35E-05 | -0.34602 | 4.24E-05 | -0.35945 | 6.19E-05 | -0.35518 |
| 1.28E-04 | -0.42659 | 1.60E-05 | -0.50624 | 7.57E-05 | -0.34102 | 5.48E-05 | -0.35445 | 7.51E-05 | -0.35018 |
| 3.81E-04 | -0.41659 | 5.80E-05 | -0.49624 | 9.49E-05 | -0.33602 | 6.81E-05 | -0.34945 | 8.80E-05 | -0.34518 |
| 5.23E-04 | -0.41159 | 7.68E-05 | -0.49124 | 1.14E-04 | -0.33102 | 8.16E-05 | -0.34445 | 1.02E-04 | -0.34018 |
| 6.85E-04 | -0.40659 | 9.67E-05 | -0.48624 | 1.32E-04 | -0.32602 | 9.55E-05 | -0.33945 | 1.15E-04 | -0.33518 |
| 8.81E-04 | -0.40159 | 1.10E-04 | -0.48124 | 1.52E-04 | -0.32102 | 1.10E-04 | -0.33445 | 1.29E-04 | -0.33018 |
| 0.00112 | -0.39659 | 1.31E-04 | -0.47624 | 1.74E-04 | -0.31602 | 1.26E-04 | -0.32945 | 1.45E-04 | -0.32518 |
| 0.00143 | -0.39159 | 1.51E-04 | -0.47124 | 1.95E-04 | -0.31102 | 1.43E-04 | -0.32445 | 1.61E-04 | -0.32018 |
| 0.00182 | -0.38659 | 1.70E-04 | -0.46624 | 2.18E-04 | -0.30602 | 1.61E-04 | -0.31945 | 1.79E-04 | -0.31518 |
| 0.0023 | -0.38159 | 1.90E-04 | -0.46124 | 2.42E-04 | -0.30102 | 1.82E-04 | -0.31445 | 1.98E-04 | -0.31018 |
| 0.00292 | -0.37659 | 2.10E-04 | -0.45624 | 2.71E-04 | -0.29602 | 2.04E-04 | -0.30945 | 2.18E-04 | -0.30518 |
| 0.00366 | -0.37159 | 2.28E-04 | -0.45124 | 2.98E-04 | -0.29102 | 2.28E-04 | -0.30445 | 2.40E-04 | -0.30018 |
| 0.00452 | -0.36659 | 2.46E-04 | -0.44624 | 3.34E-04 | -0.28602 | 2.56E-04 | -0.29945 | 2.64E-04 | -0.29518 |
| 0.00549 | -0.36159 | 2.68E-04 | -0.44124 | 3.68E-04 | -0.28102 | 2.87E-04 | -0.29445 | 2.91E-04 | -0.29018 |
| 0.00655 | -0.35659 | 2.91E-04 | -0.43624 | 4.08E-04 | -0.27602 | 3.22E-04 | -0.28945 | 3.21E-04 | -0.28518 |
| 0.00768 | -0.35159 | 3.16E-04 | -0.43124 | 4.48E-04 | -0.27102 | 3.62E-04 | -0.28445 | 3.55E-04 | -0.28018 |
| 0.00886 | -0.34659 | 3.39E-04 | -0.42624 | 4.88E-04 | -0.26602 | 4.08E-04 | -0.27945 | 3.93E-04 | -0.27518 |
| 0.0101 | -0.34159 | 3.64E-04 | -0.42124 | 5.57E-04 | -0.26102 | 4.63E-04 | -0.27445 | 4.36E-04 | -0.27018 |
| 0.01132 | -0.33659 | 3.91E-04 | -0.41624 | 6.26E-04 | -0.25602 | 5.28E-04 | -0.26945 | 4.85E-04 | -0.26518 |
| 0.01255 | -0.33159 | 4.18E-04 | -0.41124 | 6.98E-04 | -0.25102 | 6.14E-04 | -0.26445 | 5.39E-04 | -0.26018 |
| 0.01378 | -0.32659 | 4.48E-04 | -0.40624 | 7.96E-04 | -0.24602 | 7.24E-04 | -0.25945 | 6.00E-04 | -0.25518 |
| 0.015 | -0.32159 | 4.82E-04 | -0.40124 | 9.23E-04 | -0.24102 | 8.68E-04 | -0.25445 | 6.72E-04 | -0.25018 |
| 0.01621 | -0.31659 | 5.13E-04 | -0.39624 | 0.0011 | -0.23602 | 0.00108 | -0.24945 | 7.55E-04 | -0.24518 |
| 0.01744 | -0.31159 | 5.57E-04 | -0.39124 | 0.00135 | -0.23102 | 0.00134 | -0.24445 | 8.56E-04 | -0.24018 |
| 0.01863 | -0.30659 | 6.08E-04 | -0.38624 | 0.00171 | -0.22602 | 0.00166 | -0.23945 | 9.83E-04 | -0.23518 |
| 0.01981 | -0.30159 | 6.72E-04 | -0.38124 | 0.0022 | -0.22102 | 0.00204 | -0.23445 | 0.00115 | -0.23018 |
| 0.02098 | -0.29659 | 7.66E-04 | -0.37624 | 0.00281 | -0.21602 | 0.00251 | -0.22945 | 0.00139 | -0.22518 |
| 0.02214 | -0.29159 | 9.31E-04 | -0.37124 | 0.00351 | -0.21102 | 0.00297 | -0.22445 | 0.00172 | -0.22018 |
| 0.02328 | -0.28659 | 0.00126 | -0.36624 | 0.00427 | -0.20602 | 0.00347 | -0.21945 | 0.00215 | -0.21518 |
| 0.02442 | -0.28159 | 0.00189 | -0.36124 | 0.00519 | -0.20102 | 0.00388 | -0.21445 | 0.00269 | -0.21018 |
| 0.02556 | -0.27659 | 0.00283 | -0.35624 | 0.00568 | -0.19602 | 0.0045 | -0.20945 | 0.00332 | -0.20518 |
| 0.02669 | -0.27159 | 0.00395 | -0.35124 | 0.00626 | -0.19102 | 0.0049 | -0.20445 | 0.00398 | -0.20018 |
| 0.02784 | -0.26659 | 0.00512 | -0.34624 | 0.00672 | -0.18602 | 0.00538 | -0.19945 | 0.00465 | -0.19518 |
| 0.02896 | -0.26159 | 0.00627 | -0.34124 | 0.00708 | -0.18102 | 0.00566 | -0.19445 | 0.00528 | -0.19018 |
| 0.03009 | -0.25659 | 0.00739 | -0.33624 | 0.00737 | -0.17602 | 0.0061 | -0.18945 | 0.00587 | -0.18518 |
| 0.0312 | -0.25159 | 0.00851 | -0.33124 | 0.00761 | -0.17102 | 0.00633 | -0.18445 | 0.00639 | -0.18018 |
| 0.03231 | -0.24659 | 0.0096 | -0.32624 | 0.0078 | -0.16602 | 0.00673 | -0.17945 | 0.00684 | -0.17518 |
| 0.03343 | -0.24159 | 0.01066 | -0.32124 | 0.00796 | -0.16102 | 0.00675 | -0.17445 | 0.00723 | -0.17018 |
| 0.03455 | -0.23659 | 0.01171 | -0.31624 | 0.00804 | -0.15602 | 0.00693 | -0.16945 | 0.00759 | -0.16518 |
| 0.03566 | -0.23159 | 0.01274 | -0.31124 | 0.0081 | -0.15102 | 0.00692 | -0.16445 | 0.00793 | -0.16018 |
| 0.03678 | -0.22659 | 0.01374 | -0.30624 | 0.00814 | -0.14602 | 0.0069 | -0.15945 | 0.00825 | -0.15518 |
| 0.03789 | -0.22159 | 0.01474 | -0.30124 | 0.00816 | -0.14102 | 0.007 | -0.15445 | 0.00852 | -0.15018 |
| 0.039 | -0.21659 | 0.01576 | -0.29624 | 0.00821 | -0.13602 | 0.00716 | -0.14945 | 0.00876 | -0.14518 |
| 0.04011 | -0.21159 | 0.01672 | -0.29124 | 0.00818 | -0.13102 | 0.00722 | -0.14445 | 0.0089 | -0.14018 |
| 0.04122 | -0.20659 | 0.01772 | -0.28624 | 0.00814 | -0.12602 | 0.00733 | -0.13945 | 0.00901 | -0.13518 |
| 0.04233 | -0.20159 | 0.01866 | -0.28124 | 0.00809 | -0.12102 | 0.0074 | -0.13445 | 0.00906 | -0.13018 |
| 0.04344 | -0.19659 | 0.01959 | -0.27624 | 0.00804 | -0.11602 | 0.0075 | -0.12945 | 0.00907 | -0.12518 |
| 0.04457 | -0.19159 | 0.02053 | -0.27124 | 0.00806 | -0.11102 | 0.00766 | -0.12445 | 0.00902 | -0.12018 |

**Table 2**: The test results of Potentiodynamic polarization, which were used for plotting the Figure 4(b).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Blank** | | | **1 mM** | | | **3 mM** | | | **5 mM** | | | **10 mM** | | |
| Freq(Hz) | Zr\_msd | Zi\_msd | Freq(Hz) | Zr\_msd | Zi\_msd | Freq(Hz) | Zr\_msd | Zi\_msd | Freq(Hz) | Zr\_msd | Zi\_msd | Freq(Hz) | Zr\_msd | Zi\_msd |
| 100000 | 3.438 | 0.063 | 100000 | 4.948 | 0.266 | 100000 | 6.569 | -0.431 | 100000 | 6.783 | -0.452 | 100000 | 6.412 | 0.734 |
| 76094.97 | 3.444 | 0.078 | 76094.97 | 4.953 | 0.255 | 76094.97 | 6.279 | -0.277 | 76094.97 | 6.414 | -0.221 | 76094.97 | 6.668 | -0.211 |
| 57904.44 | 3.451 | 0.096 | 57904.44 | 4.969 | 0.249 | 57904.44 | 6.136 | -0.186 | 57904.44 | 6.237 | -0.120 | 57904.44 | 6.558 | -0.079 |
| 44062.36 | 3.460 | 0.118 | 44062.36 | 4.999 | 0.257 | 44062.36 | 6.081 | -0.054 | 44062.36 | 6.103 | 0.126 | 44062.36 | 6.493 | 0.081 |
| 33529.24 | 3.470 | 0.146 | 33529.24 | 5.010 | 0.243 | 33529.24 | 6.044 | 0.066 | 33529.24 | 6.088 | 0.184 | 33529.24 | 6.472 | 0.148 |
| 25514.06 | 3.483 | 0.180 | 25514.06 | 5.042 | 0.248 | 25514.06 | 6.055 | 0.108 | 25514.06 | 6.083 | 0.256 | 25514.06 | 6.456 | 0.307 |
| 19414.92 | 3.500 | 0.222 | 19414.92 | 5.077 | 0.254 | 19414.92 | 6.057 | 0.164 | 19414.92 | 6.091 | 0.356 | 19414.92 | 6.486 | 0.392 |
| 14773.78 | 3.520 | 0.274 | 14773.78 | 5.087 | 0.271 | 14773.78 | 6.065 | 0.235 | 14773.78 | 6.112 | 0.466 | 14773.78 | 6.523 | 0.525 |
| 11242.1 | 3.544 | 0.337 | 11242.1 | 5.134 | 0.283 | 11242.1 | 6.086 | 0.308 | 11242.1 | 6.145 | 0.601 | 11242.1 | 6.578 | 0.648 |
| 8554.673 | 3.575 | 0.416 | 8554.673 | 5.131 | 0.314 | 8554.673 | 6.126 | 0.379 | 8554.673 | 6.194 | 0.762 | 8554.673 | 6.653 | 0.813 |
| 6509.675 | 3.613 | 0.512 | 6509.675 | 5.175 | 0.342 | 6509.675 | 6.161 | 0.492 | 6509.675 | 6.253 | 0.977 | 6509.675 | 6.746 | 1.019 |
| 4953.535 | 3.660 | 0.631 | 4953.535 | 5.209 | 0.379 | 4953.535 | 6.222 | 0.604 | 4953.535 | 6.325 | 1.226 | 4953.535 | 6.864 | 1.253 |
| 3769.391 | 3.719 | 0.778 | 3769.391 | 5.230 | 0.424 | 3769.391 | 6.274 | 0.767 | 3769.391 | 6.423 | 1.554 | 3769.391 | 7.013 | 1.534 |
| 2868.317 | 3.792 | 0.958 | 2868.317 | 5.286 | 0.482 | 2868.317 | 6.363 | 0.967 | 2868.317 | 6.554 | 1.960 | 2868.317 | 7.208 | 1.874 |
| 2182.645 | 3.883 | 1.180 | 2182.645 | 5.345 | 0.560 | 2182.645 | 6.451 | 1.166 | 2182.645 | 6.704 | 2.415 | 2182.645 | 7.427 | 2.234 |
| 1660.883 | 3.997 | 1.451 | 1660.883 | 5.371 | 0.639 | 1660.883 | 6.585 | 1.449 | 1660.883 | 6.920 | 3.057 | 1660.883 | 7.732 | 2.699 |
| 1263.848 | 4.141 | 1.785 | 1263.848 | 5.434 | 0.723 | 1263.848 | 6.744 | 1.726 | 1263.848 | 7.178 | 3.710 | 1263.848 | 8.059 | 3.157 |
| 961.7249 | 4.321 | 2.192 | 961.7249 | 5.508 | 0.841 | 961.7249 | 6.944 | 2.081 | 961.7249 | 7.513 | 4.602 | 961.7249 | 8.475 | 3.725 |
| 731.8242 | 4.549 | 2.690 | 731.8242 | 5.550 | 0.963 | 731.8242 | 7.195 | 2.553 | 731.8242 | 7.949 | 5.772 | 731.8242 | 8.975 | 4.458 |
| 556.8814 | 4.839 | 3.295 | 556.8814 | 5.636 | 1.134 | 556.8814 | 7.511 | 3.114 | 556.8814 | 8.500 | 7.220 | 556.8814 | 9.568 | 5.321 |
| 423.7587 | 5.209 | 4.028 | 423.7587 | 5.750 | 1.342 | 423.7587 | 7.848 | 3.699 | 423.7587 | 9.103 | 8.792 | 423.7587 | 10.166 | 6.210 |
| 322.459 | 5.681 | 4.911 | 322.459 | 5.842 | 1.595 | 322.459 | 8.299 | 4.486 | 322.459 | 9.975 | 10.993 | 322.459 | 10.958 | 7.421 |
| 245.3751 | 6.287 | 5.969 | 245.3751 | 5.993 | 1.865 | 245.3751 | 8.807 | 5.385 | 245.3751 | 11.000 | 13.575 | 245.3751 | 11.855 | 8.803 |
| 186.7181 | 7.065 | 7.222 | 186.7181 | 6.120 | 2.180 | 186.7181 | 9.458 | 6.525 | 186.7181 | 12.434 | 16.923 | 186.7181 | 12.946 | 10.583 |
| 142.0831 | 8.066 | 8.690 | 142.0831 | 6.300 | 2.594 | 142.0831 | 10.105 | 7.703 | 142.0831 | 14.009 | 20.483 | 142.0831 | 14.052 | 12.395 |
| 108.1181 | 9.349 | 10.384 | 108.1181 | 6.510 | 3.081 | 108.1181 | 10.968 | 9.175 | 108.1181 | 16.095 | 24.941 | 108.1181 | 15.455 | 14.690 |
| 82.27241 | 10.981 | 12.299 | 82.27241 | 6.748 | 3.632 | 82.27241 | 12.098 | 11.226 | 82.27241 | 19.258 | 31.250 | 82.27241 | 17.395 | 17.834 |
| 62.60517 | 13.037 | 14.411 | 62.60517 | 7.059 | 4.350 | 62.60517 | 13.218 | 13.322 | 62.60517 | 22.487 | 37.525 | 62.60517 | 19.227 | 20.996 |
| 47.63938 | 15.584 | 16.666 | 47.63938 | 7.436 | 5.145 | 47.63938 | 14.812 | 16.018 | 47.63938 | 27.234 | 46.018 | 47.63938 | 21.939 | 25.181 |
| 36.25117 | 18.669 | 18.987 | 36.25117 | 7.882 | 6.110 | 36.25117 | 16.648 | 19.342 | 36.25117 | 34.111 | 56.157 | 36.25117 | 25.024 | 30.081 |
| 27.58532 | 22.306 | 21.277 | 27.58532 | 8.458 | 7.278 | 27.58532 | 19.277 | 23.617 | 27.58532 | 43.146 | 67.671 | 27.58532 | 29.083 | 36.375 |
| 20.99104 | 26.465 | 23.444 | 20.99104 | 9.151 | 8.590 | 20.99104 | 22.203 | 28.229 | 20.99104 | 54.158 | 80.372 | 20.99104 | 33.742 | 43.135 |
| 15.97312 | 31.089 | 25.425 | 15.97312 | 9.982 | 10.080 | 15.97312 | 26.154 | 34.077 | 15.97312 | 70.097 | 93.848 | 15.97312 | 39.846 | 51.743 |
| 12.15474 | 36.119 | 27.201 | 12.15474 | 10.790 | 11.870 | 12.15474 | 30.938 | 40.605 | 12.15474 | 88.683 | 107.657 | 12.15474 | 46.976 | 61.349 |
| 9.249147 | 41.549 | 28.775 | 9.249147 | 12.580 | 14.290 | 9.249147 | 37.481 | 48.621 | 9.249147 | 114.225 | 120.688 | 9.249147 | 56.625 | 73.354 |
| 7.038136 | 47.440 | 30.105 | 7.038136 | 14.140 | 16.440 | 7.038136 | 45.346 | 56.860 | 7.038136 | 141.595 | 129.351 | 7.038136 | 68.170 | 85.691 |
| 5.355667 | 53.873 | 31.016 | 5.355667 | 16.120 | 19.020 | 5.355667 | 55.513 | 65.879 | 5.355667 | 172.491 | 133.375 | 5.355667 | 83.010 | 99.486 |
| 4.075393 | 60.808 | 31.173 | 4.075393 | 18.580 | 21.840 | 4.075393 | 68.831 | 75.321 | 4.075393 | 204.933 | 131.108 | 4.075393 | 102.595 | 114.112 |
| 3.101169 | 67.922 | 30.214 | 3.101169 | 21.750 | 25.230 | 3.101169 | 84.858 | 83.998 | 3.101169 | 235.597 | 125.506 | 3.101169 | 126.535 | 128.377 |
| 2.359834 | 74.640 | 28.010 | 2.359834 | 25.510 | 28.540 | 2.359834 | 104.101 | 91.744 | 2.359834 | 260.428 | 110.554 | 2.359834 | 155.728 | 141.008 |
| 1.795715 | 80.389 | 24.816 | 1.795715 | 29.710 | 31.770 | 1.795715 | 125.357 | 96.339 | 1.795715 | 284.830 | 98.672 | 1.795715 | 187.985 | 149.508 |
| 1.366448 | 84.873 | 21.139 | 1.366448 | 34.820 | 35.070 | 1.366448 | 149.074 | 97.508 | 1.366448 | 298.664 | 80.927 | 1.366448 | 223.648 | 152.821 |
| 1.039798 | 88.129 | 17.479 | 1.039798 | 40.760 | 38.210 | 1.039798 | 170.818 | 94.076 | 1.039798 | 311.301 | 67.531 | 1.039798 | 259.461 | 149.829 |
| 0.791234 | 90.385 | 14.160 | 0.791234 | 47.520 | 41.060 | 0.791234 | 191.490 | 86.127 | 0.791234 | 317.024 | 56.087 | 0.791234 | 291.354 | 140.969 |
| 0.60209 | 91.911 | 11.322 | 0.60209 | 55.240 | 43.460 | 0.60209 | 208.757 | 76.848 | 0.60209 | 328.148 | 44.204 | 0.60209 | 321.003 | 127.260 |
| 0.45816 | 92.937 | 8.981 | 0.45816 | 62.850 | 44.930 | 0.45816 | 222.875 | 65.059 | 0.45816 | 327.714 | 31.817 | 0.45816 | 344.393 | 111.672 |
| 0.348637 | 93.631 | 7.091 | 0.348637 | 71.270 | 45.690 | 0.348637 | 233.158 | 53.500 | 0.348637 | 331.743 | 22.806 | 0.348637 | 362.592 | 94.374 |
| 0.265295 | 94.108 | 5.584 | 0.265295 | 79.420 | 45.560 | 0.265295 | 237.765 | 44.251 | 0.265295 | 331.477 | 22.766 | 0.265295 | 374.484 | 79.551 |
| 0.201876 | 94.441 | 4.393 | 0.201876 | 87.710 | 44.680 | 0.201876 | 242.000 | 35.860 | 0.201876 | 333.405 | 17.909 | 0.201876 | 385.008 | 65.296 |
| 0.153618 | 94.679 | 3.453 | 0.153618 | 95.390 | 43.040 | 0.153618 | 244.826 | 30.646 | 0.153618 | 332.219 | 3.223 | 0.153618 | 390.781 | 57.090 |
| 0.116895 | 94.853 | 2.715 | 0.116895 | 103.100 | 40.580 | 0.116895 | 246.349 | 25.171 | 0.116895 | 339.273 | 2.735 | 0.116895 | 394.761 | 48.725 |
| 0.088951 | 94.982 | 2.135 | 0.088951 | 109.900 | 37.580 | 0.088951 | 248.001 | 23.270 | 0.088951 | 330.341 | 7.507 | 0.088951 | 399.574 | 45.262 |
| 0.067688 | 95.079 | 1.680 | 0.067688 | 116.000 | 34.260 | 0.067688 | 249.071 | 22.149 | 0.067688 | 334.646 | 12.397 | 0.067688 | 404.924 | 43.068 |
| 0.051507 | 95.154 | 1.323 | 0.051507 | 121.400 | 30.540 | 0.051507 | 250.312 | 19.893 | 0.051507 | 337.041 | 11.359 | 0.051507 | 407.598 | 39.479 |
| 0.039194 | 95.213 | 1.042 | 0.039194 | 126.100 | 26.510 | 0.039194 | 253.178 | 19.170 | 0.039194 | 332.537 | 7.013 | 0.039194 | 403.001 | 28.278 |
| 0.029825 | 95.213 | 1.031 | 0.029825 | 129.400 | 21.990 | 0.029825 | 250.191 | 17.001 | 0.029825 | 330.493 | 8.140 | 0.029825 | 407.047 | 73.172 |
| 0.022695 | 95.213 | 1.016 | 0.022695 | 132.300 | 17.800 | 0.022695 | 257.497 | 22.160 | 0.022695 | 330.290 | 7.614 | 0.022695 | 395.818 | 90.949 |
| 0.01727 | 95.213 | 1.001 | 0.01727 | 134.500 | 13.730 | 0.01727 | 260.619 | 23.648 | 0.01727 | 330.054 | 4.957 | 0.01727 | 431.475 | 86.914 |
| 0.013141 | 95.213 | 0.854 | 0.013141 | 136.200 | 9.882 | 0.013141 | 260.718 | 18.660 | 0.013141 | 330.160 | 18.692 | 0.013141 | 447.748 | -1.025 |
| 0.01 | 95.213 | 0.952 | 0.01 | 136.900 | 6.391 | 0.01 | 263.245 | 13.474 | 0.01 | 330.004 | 22.765 | 0.01 | 450.119 | 38.287 |

**Table 3**: The test results of electrochemical impedance spectroscopy, which were used for plotting the Figure

5(a).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Blank** | | | **1 mM** | | | **3 mM** | | | **5 mM** | | | **10 mM** | | |
| Freq(Hz) | Zr\_msd | Zi\_msd | Freq(Hz) | Zr\_msd | Zi\_msd | Freq(Hz) | Zr\_msd | Zi\_msd | Freq(Hz) | Zr\_msd | Zi\_msd | Freq(Hz) | Zr\_msd | Zi\_msd |
| 100000 | 3.438 | 0.063 | 100000 | 10.171 | -0.491 | 100000 | 9.285 | 0.094 | 100000 | 9.308 | 0.115 | 100000 | 0.181 | 0.028 |
| 76094.97 | 3.444 | 0.078 | 76094.97 | 9.892 | -0.308 | 76094.97 | 9.290 | 0.120 | 76094.97 | 9.312 | 0.148 | 76094.97 | 0.452 | 0.041 |
| 57904.44 | 3.451 | 0.096 | 57904.44 | 9.728 | -0.279 | 57904.44 | 9.296 | 0.153 | 57904.44 | 9.318 | 0.191 | 57904.44 | 0.416 | 0.126 |
| 44062.36 | 3.460 | 0.118 | 44062.36 | 9.640 | -0.080 | 44062.36 | 9.304 | 0.195 | 44062.36 | 9.325 | 0.246 | 44062.36 | 0.695 | 0.255 |
| 33529.24 | 3.470 | 0.146 | 33529.24 | 9.599 | 0.041 | 33529.24 | 9.313 | 0.248 | 33529.24 | 9.335 | 0.317 | 33529.24 | 0.673 | 0.195 |
| 25514.06 | 3.483 | 0.180 | 25514.06 | 9.578 | 0.079 | 25514.06 | 9.326 | 0.316 | 25514.06 | 9.350 | 0.409 | 25514.06 | 0.621 | 0.088 |
| 19414.92 | 3.500 | 0.222 | 19414.92 | 9.592 | 0.129 | 19414.92 | 9.342 | 0.403 | 19414.92 | 9.370 | 0.527 | 19414.92 | 0.512 | 0.046 |
| 14773.78 | 3.520 | 0.274 | 14773.78 | 9.588 | 0.168 | 14773.78 | 9.362 | 0.513 | 14773.78 | 9.398 | 0.677 | 14773.78 | 0.275 | 0.490 |
| 11242.1 | 3.544 | 0.337 | 11242.1 | 9.603 | 0.242 | 11242.1 | 9.389 | 0.654 | 11242.1 | 9.439 | 0.869 | 11242.1 | -0.213 | 0.901 |
| 8554.673 | 3.575 | 0.416 | 8554.673 | 9.645 | 0.277 | 8554.673 | 9.424 | 0.833 | 8554.673 | 9.499 | 1.112 | 8554.673 | -1.065 | 2.123 |
| 6509.675 | 3.613 | 0.512 | 6509.675 | 9.677 | 0.361 | 6509.675 | 9.470 | 1.061 | 6509.675 | 9.586 | 1.417 | 6509.675 | -2.743 | 4.929 |
| 4953.535 | 3.660 | 0.631 | 4953.535 | 9.717 | 0.447 | 4953.535 | 9.530 | 1.350 | 4953.535 | 9.711 | 1.796 | 4953.535 | -5.098 | 12.856 |
| 3769.391 | 3.719 | 0.778 | 3769.391 | 9.763 | 0.572 | 3769.391 | 9.609 | 1.718 | 3769.391 | 9.888 | 2.260 | 3769.391 | -4.171 | 8.942 |
| 2868.317 | 3.792 | 0.958 | 2868.317 | 9.820 | 0.707 | 2868.317 | 9.715 | 2.185 | 2868.317 | 10.135 | 2.817 | 2868.317 | -4.037 | 26.937 |
| 2182.645 | 3.883 | 1.180 | 2182.645 | 9.900 | 0.859 | 2182.645 | 9.857 | 2.775 | 2182.645 | 10.466 | 3.474 | 2182.645 | -4.631 | 16.363 |
| 1660.883 | 3.997 | 1.451 | 1660.883 | 10.007 | 1.060 | 1660.883 | 10.049 | 3.521 | 1660.883 | 10.891 | 4.235 | 1660.883 | -1.159 | 34.148 |
| 1263.848 | 4.141 | 1.785 | 1263.848 | 10.125 | 1.246 | 1263.848 | 10.310 | 4.459 | 1263.848 | 11.413 | 5.109 | 1263.848 | 0.932 | 40.865 |
| 961.7249 | 4.321 | 2.192 | 961.7249 | 10.282 | 1.483 | 961.7249 | 10.668 | 5.632 | 961.7249 | 12.026 | 6.119 | 961.7249 | 1.392 | 41.569 |
| 731.8242 | 4.549 | 2.690 | 731.8242 | 10.466 | 1.815 | 731.8242 | 11.159 | 7.089 | 731.8242 | 12.723 | 7.303 | 731.8242 | 3.447 | 47.611 |
| 556.8814 | 4.839 | 3.295 | 556.8814 | 10.693 | 2.197 | 556.8814 | 11.831 | 8.881 | 556.8814 | 13.501 | 8.728 | 556.8814 | 9.914 | 59.933 |
| 423.7587 | 5.209 | 4.028 | 423.7587 | 10.937 | 2.597 | 423.7587 | 12.741 | 11.059 | 423.7587 | 14.374 | 10.475 | 423.7587 | 16.411 | 74.460 |
| 322.459 | 5.681 | 4.911 | 322.459 | 11.264 | 3.146 | 322.459 | 13.948 | 13.669 | 322.459 | 15.371 | 12.650 | 322.459 | 28.033 | 93.025 |
| 245.3751 | 6.287 | 5.969 | 245.3751 | 11.638 | 3.750 | 245.3751 | 15.505 | 16.763 | 245.3751 | 16.540 | 15.373 | 245.3751 | 37.294 | 110.576 |
| 186.7181 | 7.065 | 7.222 | 186.7181 | 12.097 | 4.560 | 186.7181 | 17.450 | 20.412 | 186.7181 | 17.952 | 18.787 | 186.7181 | 49.742 | 129.867 |
| 142.0831 | 8.066 | 8.690 | 142.0831 | 12.598 | 5.350 | 142.0831 | 19.815 | 24.738 | 142.0831 | 19.700 | 23.055 | 142.0831 | 61.658 | 146.853 |
| 108.1181 | 9.349 | 10.384 | 108.1181 | 13.155 | 6.359 | 108.1181 | 22.663 | 29.941 | 108.1181 | 21.916 | 28.371 | 108.1181 | 75.943 | 165.853 |
| 82.27241 | 10.981 | 12.299 | 82.27241 | 13.944 | 7.776 | 82.27241 | 26.154 | 36.294 | 82.27241 | 24.775 | 34.955 | 82.27241 | 88.754 | 179.945 |
| 62.60517 | 13.037 | 14.411 | 62.60517 | 14.716 | 9.171 | 62.60517 | 30.601 | 44.099 | 62.60517 | 28.516 | 43.055 | 62.60517 | 105.077 | 195.829 |
| 47.63938 | 15.584 | 16.666 | 47.63938 | 15.682 | 11.107 | 47.63938 | 36.512 | 53.605 | 47.63938 | 33.468 | 52.932 | 47.63938 | 106.873 | 199.579 |
| 36.25117 | 18.669 | 18.987 | 36.25117 | 16.979 | 13.340 | 36.25117 | 44.601 | 64.903 | 36.25117 | 40.075 | 64.843 | 36.25117 | 122.217 | 213.036 |
| 27.58532 | 22.306 | 21.277 | 27.58532 | 18.693 | 16.239 | 27.58532 | 55.762 | 77.785 | 27.58532 | 48.926 | 78.992 | 27.58532 | 134.716 | 226.876 |
| 20.99104 | 26.465 | 23.444 | 20.99104 | 20.587 | 19.527 | 20.99104 | 70.951 | 91.565 | 20.99104 | 60.780 | 95.457 | 20.99104 | 161.229 | 241.274 |
| 15.97312 | 31.089 | 25.425 | 15.97312 | 23.156 | 23.534 | 15.97312 | 90.915 | 104.935 | 15.97312 | 76.562 | 114.077 | 15.97312 | 189.300 | 257.160 |
| 12.15474 | 36.119 | 27.201 | 12.15474 | 26.100 | 28.258 | 12.15474 | 115.758 | 115.997 | 12.15474 | 97.295 | 134.309 | 12.15474 | 216.564 | 273.042 |
| 9.249147 | 41.549 | 28.775 | 9.249147 | 30.151 | 34.255 | 9.249147 | 144.499 | 122.672 | 9.249147 | 123.942 | 155.072 | 9.249147 | 239.266 | 286.136 |
| 7.038136 | 47.440 | 30.105 | 7.038136 | 35.071 | 40.571 | 7.038136 | 174.991 | 123.456 | 7.038136 | 157.099 | 174.673 | 7.038136 | 273.531 | 291.353 |
| 5.355667 | 53.873 | 31.016 | 5.355667 | 41.520 | 47.921 | 5.355667 | 204.485 | 118.131 | 5.355667 | 196.610 | 190.924 | 5.355667 | 299.810 | 297.530 |
| 4.075393 | 60.808 | 31.173 | 4.075393 | 50.011 | 56.038 | 4.075393 | 230.574 | 107.870 | 4.075393 | 241.228 | 201.549 | 4.075393 | 366.302 | 309.899 |
| 3.101169 | 67.922 | 30.214 | 3.101169 | 60.982 | 64.604 | 3.101169 | 251.919 | 94.655 | 3.101169 | 288.590 | 204.836 | 3.101169 | 401.340 | 303.707 |
| 2.359834 | 74.640 | 28.010 | 2.359834 | 74.683 | 73.516 | 2.359834 | 268.332 | 80.477 | 2.359834 | 335.652 | 200.239 | 2.359834 | 433.980 | 297.530 |
| 1.795715 | 80.389 | 24.816 | 1.795715 | 91.009 | 80.804 | 1.795715 | 280.397 | 66.818 | 1.795715 | 379.465 | 188.589 | 1.795715 | 461.083 | 290.250 |
| 1.366448 | 84.873 | 21.139 | 1.366448 | 109.831 | 86.110 | 1.366448 | 289.007 | 54.533 | 1.366448 | 417.896 | 171.766 | 1.366448 | 484.953 | 283.880 |
| 1.039798 | 88.129 | 17.479 | 1.039798 | 131.246 | 87.773 | 1.039798 | 295.049 | 43.969 | 1.039798 | 449.953 | 152.046 | 1.039798 | 515.438 | 265.762 |
| 0.7912343 | 90.385 | 14.160 | 0.7912343 | 150.657 | 84.943 | 0.7912343 | 299.260 | 35.153 | 0.7912343 | 475.658 | 131.507 | 0.7912343 | 533.560 | 255.830 |
| 0.6020895 | 91.911 | 11.322 | 0.6020895 | 170.435 | 80.680 | 0.6020895 | 302.194 | 27.939 | 0.6020895 | 495.689 | 111.693 | 0.6020895 | 553.471 | 244.804 |
| 0.4581598 | 92.937 | 8.981 | 0.4581598 | 183.883 | 66.927 | 0.4581598 | 304.250 | 22.114 | 0.4581598 | 511.008 | 93.554 | 0.4581598 | 577.442 | 231.819 |
| 0.3486365 | 93.631 | 7.091 | 0.3486365 | 198.377 | 59.249 | 0.3486365 | 305.702 | 17.453 | 0.3486365 | 522.599 | 77.544 | 0.3486365 | 604.240 | 200.900 |
| 0.2652949 | 94.108 | 5.584 | 0.2652949 | 213.214 | 51.165 | 0.2652949 | 306.738 | 13.746 | 0.2652949 | 531.331 | 63.774 | 0.2652949 | 628.034 | 170.314 |
| 0.201876 | 94.441 | 4.393 | 0.201876 | 220.283 | 44.673 | 0.201876 | 307.486 | 10.811 | 0.201876 | 537.909 | 52.147 | 0.201876 | 644.064 | 139.573 |
| 0.1536175 | 94.679 | 3.453 | 0.1536175 | 221.768 | 31.502 | 0.1536175 | 308.031 | 8.493 | 0.1536175 | 542.883 | 42.457 | 0.1536175 | 655.394 | 117.521 |
| 0.1168952 | 94.853 | 2.715 | 0.1168952 | 224.360 | 28.810 | 0.1168952 | 308.434 | 6.667 | 0.1168952 | 546.662 | 34.459 | 0.1168952 | 666.753 | 91.922 |
| 0.08895135 | 94.982 | 2.135 | 0.08895135 | 224.824 | 23.692 | 0.08895135 | 308.734 | 5.231 | 0.08895135 | 549.552 | 27.902 | 0.0889514 | 673.273 | 76.962 |
| 0.0676875 | 95.079 | 1.680 | 0.0676875 | 227.281 | 20.852 | 0.0676875 | 308.959 | 4.102 | 0.0676875 | 551.777 | 22.554 | 0.0676875 | 679.485 | 66.110 |
| 0.05150678 | 95.154 | 1.323 | 0.05150678 | 229.036 | 18.792 | 0.05150678 | 309.129 | 3.216 | 0.05150678 | 553.501 | 18.208 | 0.0515068 | 685.796 | 54.515 |
| 0.03919407 | 95.213 | 1.042 | 0.03919407 | 228.536 | 17.215 | 0.03919407 | 309.259 | 2.521 | 0.03919407 | 554.846 | 14.686 | 0.0391941 | 687.259 | 35.989 |
| 0.02982471 | 95.213 | 1.031 | 0.02982471 | 230.881 | 14.967 | 0.02982471 | 309.359 | 1.975 | 0.02982471 | 555.900 | 11.837 | 0.0298247 | 687.646 | 44.049 |
| 0.02269511 | 95.213 | 1.016 | 0.02269511 | 229.296 | 15.693 | 0.02269511 | 309.435 | 1.548 | 0.02269511 | 556.731 | 9.536 | 0.0226951 | 690.006 | 22.033 |
| 0.01726983 | 95.213 | 1.001 | 0.01726983 | 227.990 | 16.044 | 0.01726983 | 309.494 | 1.213 | 0.01726983 | 557.388 | 7.680 | 0.0172698 | 693.542 | 5.083 |
| 0.01314147 | 95.213 | 0.854 | 0.01314147 | 226.925 | 11.395 | 0.01314147 | 309.540 | 0.950 | 0.01314147 | 557.910 | 6.184 | 0.0131415 | 693.033 | 2.499 |
| 0.01 | 95.213 | 0.952 | 0.01 | 228.818 | 11.423 | 0.01 | 309.576 | 0.744 | 0.01 | 558.326 | 4.979 | 0.01 | 695.808 | 3.602 |

**Table 4**: The test results of electrochemical impedance spectroscopy, which were used for plotting the Figure

5(b).

|  |  |
| --- | --- |
| **Concentration of PPAPO** | **c/θ** |
| 0.001 | 0.00176 |
| 0.003 | 0.00505 |
| 0.005 | 0.00601 |
| 0.01 | 0.01153 |

**Table 5**: Surface coverage (θ) calculated by EIS results. Figure 7 was based on the datum above.

|  |  |
| --- | --- |
| **T-1/ K-1** | **ln(θ/(1-θ))** |
| 0.00300 | 1.90096 |
| 0.00310 | 1.54332 |
| 0.00319 | 1.39125 |
| 0.00336 | 0.82629 |

**Table 6**: ln(θ/(1-θ)) at different temperatures. The datum was used for graphing Figure 8.

|  |  |
| --- | --- |
| **Wavenumber (cm-1)** | **Absorbance** |
| 3996.39041 | 0.97908 |
| 3994.46165 | 0.97936 |
| 3992.53289 | 0.97971 |
| 3990.60413 | 0.97996 |
| 3988.67537 | 0.98019 |
| 3986.74661 | 0.98059 |
| 3984.81785 | 0.98094 |
| 3982.88909 | 0.98103 |
| 3980.96033 | 0.98116 |
| 3979.03157 | 0.98154 |
| 3977.10281 | 0.98194 |
| 3975.17405 | 0.98216 |
| 3973.24529 | 0.98245 |
| 3971.31653 | 0.9829 |
| 3969.38777 | 0.98327 |
| 3967.45901 | 0.98356 |
| 3965.53025 | 0.9839 |
| 3963.60149 | 0.9841 |
| 3961.67273 | 0.98403 |
| 3959.74397 | 0.98414 |
| 3957.81521 | 0.98453 |
| 3955.88645 | 0.98495 |
| 3953.95769 | 0.98542 |
| 3952.02893 | 0.98573 |
| 3950.10017 | 0.98544 |
| 3948.17141 | 0.98511 |
| 3946.24265 | 0.98581 |
| 3944.31389 | 0.9865 |
| 3942.38513 | 0.98602 |
| 3940.45637 | 0.98596 |
| 3938.52761 | 0.98691 |
| 3936.59885 | 0.98794 |
| 3934.67009 | 0.98847 |
| 3932.74133 | 0.98776 |
| 3930.81257 | 0.98668 |
| 3928.88381 | 0.98725 |
| 3926.95506 | 0.98855 |
| 3925.0263 | 0.98859 |
| 3923.09754 | 0.9884 |
| 3921.16878 | 0.98931 |
| 3919.24002 | 0.98974 |
| 3917.31126 | 0.98882 |
| 3915.3825 | 0.98843 |
| 3913.45374 | 0.98951 |
| 3911.52498 | 0.99079 |
| 3909.59622 | 0.99191 |
| 3907.66746 | 0.99318 |
| 3905.7387 | 0.99303 |
| 3903.80994 | 0.99059 |
| 3901.88118 | 0.98844 |
| 3899.95242 | 0.98762 |
| 3898.02366 | 0.98832 |
| 3896.0949 | 0.99106 |
| 3894.16614 | 0.99339 |
| 3892.23738 | 0.99226 |
| 3890.30862 | 0.99093 |
| 3888.37986 | 0.99287 |
| 3886.4511 | 0.99335 |
| 3884.52234 | 0.99155 |
| 3882.59358 | 0.9918 |
| 3880.66482 | 0.99145 |
| 3878.73606 | 0.99136 |
| 3876.8073 | 0.99388 |
| 3874.87854 | 0.99513 |
| 3872.94978 | 0.99453 |
| 3871.02102 | 0.99298 |
| 3869.09226 | 0.99099 |
| 3867.1635 | 0.99211 |
| 3865.23474 | 0.99325 |
| 3863.30598 | 0.99184 |
| 3861.37722 | 0.99212 |
| 3859.44846 | 0.99501 |
| 3857.5197 | 0.99866 |
| 3855.59094 | 1 |
| 3853.66218 | 0.99256 |
| 3851.73342 | 0.98597 |
| 3849.80466 | 0.98925 |
| 3847.8759 | 0.99426 |
| 3845.94714 | 0.99722 |
| 3844.01838 | 0.99769 |
| 3842.08962 | 0.99692 |
| 3840.16086 | 0.99538 |
| 3838.2321 | 0.99216 |
| 3836.30334 | 0.99055 |
| 3834.37458 | 0.99199 |
| 3832.44582 | 0.99339 |
| 3830.51706 | 0.99424 |
| 3828.5883 | 0.99516 |
| 3826.65954 | 0.99548 |
| 3824.73078 | 0.99669 |
| 3822.80202 | 0.99706 |
| 3820.87326 | 0.99277 |
| 3818.9445 | 0.99125 |
| 3817.01574 | 0.99213 |
| 3815.08698 | 0.99089 |
| 3813.15822 | 0.99236 |
| 3811.22946 | 0.99624 |
| 3809.3007 | 0.99831 |
| 3807.37194 | 0.99606 |
| 3805.44318 | 0.99415 |
| 3803.51442 | 0.99472 |
| 3801.58566 | 0.99162 |
| 3799.6569 | 0.98906 |
| 3797.72815 | 0.99041 |
| 3795.79939 | 0.99097 |
| 3793.87063 | 0.99186 |
| 3791.94187 | 0.99358 |
| 3790.01311 | 0.99439 |
| 3788.08435 | 0.99459 |
| 3786.15559 | 0.9939 |
| 3784.22683 | 0.99284 |
| 3782.29807 | 0.99305 |
| 3780.36931 | 0.99221 |
| 3778.44055 | 0.98971 |
| 3776.51179 | 0.98956 |
| 3774.58303 | 0.99148 |
| 3772.65427 | 0.99262 |
| 3770.72551 | 0.99092 |
| 3768.79675 | 0.98802 |
| 3766.86799 | 0.98684 |
| 3764.93923 | 0.98646 |
| 3763.01047 | 0.98741 |
| 3761.08171 | 0.98821 |
| 3759.15295 | 0.98567 |
| 3757.22419 | 0.9839 |
| 3755.29543 | 0.98599 |
| 3753.36667 | 0.98744 |
| 3751.43791 | 0.98183 |
| 3749.50915 | 0.975 |
| 3747.58039 | 0.97675 |
| 3745.65163 | 0.97706 |
| 3743.72287 | 0.97035 |
| 3741.79411 | 0.96869 |
| 3739.86535 | 0.97228 |
| 3737.93659 | 0.97325 |
| 3736.00783 | 0.96727 |
| 3734.07907 | 0.9588 |
| 3732.15031 | 0.95548 |
| 3730.22155 | 0.95702 |
| 3728.29279 | 0.9592 |
| 3726.36403 | 0.95855 |
| 3724.43527 | 0.95607 |
| 3722.50651 | 0.95456 |
| 3720.57775 | 0.95431 |
| 3718.64899 | 0.95562 |
| 3716.72023 | 0.95858 |
| 3714.79147 | 0.96119 |
| 3712.86271 | 0.95774 |
| 3710.93395 | 0.94603 |
| 3709.00519 | 0.93872 |
| 3707.07643 | 0.93919 |
| 3705.14767 | 0.94136 |
| 3703.21891 | 0.94013 |
| 3701.29015 | 0.93461 |
| 3699.36139 | 0.93098 |
| 3697.43263 | 0.93018 |
| 3695.50387 | 0.92974 |
| 3693.57511 | 0.92955 |
| 3691.64635 | 0.92682 |
| 3689.71759 | 0.91656 |
| 3687.78883 | 0.90603 |
| 3685.86007 | 0.90421 |
| 3683.93131 | 0.90571 |
| 3682.00255 | 0.90543 |
| 3680.07379 | 0.9038 |
| 3678.14503 | 0.90136 |
| 3676.21627 | 0.88943 |
| 3674.28751 | 0.87447 |
| 3672.35875 | 0.87235 |
| 3670.42999 | 0.86597 |
| 3668.50124 | 0.85314 |
| 3666.57248 | 0.84963 |
| 3664.64372 | 0.84916 |
| 3662.71496 | 0.84527 |
| 3660.7862 | 0.8404 |
| 3658.85744 | 0.83597 |
| 3656.92868 | 0.82668 |
| 3654.99992 | 0.81774 |
| 3653.07116 | 0.81852 |
| 3651.1424 | 0.81625 |
| 3649.21364 | 0.79378 |
| 3647.28488 | 0.77245 |
| 3645.35612 | 0.76981 |
| 3643.42736 | 0.77194 |
| 3641.4986 | 0.77008 |
| 3639.56984 | 0.76486 |
| 3637.64108 | 0.75981 |
| 3635.71232 | 0.75494 |
| 3633.78356 | 0.75106 |
| 3631.8548 | 0.75046 |
| 3629.92604 | 0.7415 |
| 3627.99728 | 0.71875 |
| 3626.06852 | 0.71162 |
| 3624.13976 | 0.7177 |
| 3622.211 | 0.72268 |
| 3620.28224 | 0.71856 |
| 3618.35348 | 0.70691 |
| 3616.42472 | 0.70243 |
| 3614.49596 | 0.70219 |
| 3612.5672 | 0.69886 |
| 3610.63844 | 0.69534 |
| 3608.70968 | 0.68882 |
| 3606.78092 | 0.68053 |
| 3604.85216 | 0.67944 |
| 3602.9234 | 0.68116 |
| 3600.99464 | 0.67808 |
| 3599.06588 | 0.67342 |
| 3597.13712 | 0.6709 |
| 3595.20836 | 0.66647 |
| 3593.2796 | 0.6621 |
| 3591.35084 | 0.66446 |
| 3589.42208 | 0.66623 |
| 3587.49332 | 0.65541 |
| 3585.56456 | 0.64449 |
| 3583.6358 | 0.64508 |
| 3581.70704 | 0.64768 |
| 3579.77828 | 0.64681 |
| 3577.84952 | 0.64424 |
| 3575.92076 | 0.64149 |
| 3573.992 | 0.63937 |
| 3572.06324 | 0.64048 |
| 3570.13448 | 0.64381 |
| 3568.20572 | 0.63912 |
| 3566.27696 | 0.62391 |
| 3564.3482 | 0.61688 |
| 3562.41944 | 0.61882 |
| 3560.49068 | 0.6195 |
| 3558.56192 | 0.61821 |
| 3556.63316 | 0.61809 |
| 3554.7044 | 0.61778 |
| 3552.77564 | 0.61417 |
| 3550.84688 | 0.61081 |
| 3548.91812 | 0.61094 |
| 3546.98936 | 0.60862 |
| 3545.0606 | 0.60192 |
| 3543.13184 | 0.59794 |
| 3541.20309 | 0.59855 |
| 3539.27433 | 0.59975 |
| 3537.34557 | 0.59824 |
| 3535.41681 | 0.59513 |
| 3533.48805 | 0.59409 |
| 3531.55929 | 0.59456 |
| 3529.63053 | 0.59309 |
| 3527.70177 | 0.58962 |
| 3525.77301 | 0.58667 |
| 3523.84425 | 0.58394 |
| 3521.91549 | 0.58151 |
| 3519.98673 | 0.58077 |
| 3518.05797 | 0.58049 |
| 3516.12921 | 0.57968 |
| 3514.20045 | 0.5793 |
| 3512.27169 | 0.57895 |
| 3510.34293 | 0.57683 |
| 3508.41417 | 0.57427 |
| 3506.48541 | 0.57424 |
| 3504.55665 | 0.57366 |
| 3502.62789 | 0.56977 |
| 3500.69913 | 0.56735 |
| 3498.77037 | 0.56793 |
| 3496.84161 | 0.5678 |
| 3494.91285 | 0.56633 |
| 3492.98409 | 0.56561 |
| 3491.05533 | 0.56567 |
| 3489.12657 | 0.56484 |
| 3487.19781 | 0.56328 |
| 3485.26905 | 0.56282 |
| 3483.34029 | 0.56245 |
| 3481.41153 | 0.56031 |
| 3479.48277 | 0.55867 |
| 3477.55401 | 0.55896 |
| 3475.62525 | 0.55897 |
| 3473.69649 | 0.55808 |
| 3471.76773 | 0.55745 |
| 3469.83897 | 0.5571 |
| 3467.91021 | 0.5565 |
| 3465.98145 | 0.55605 |
| 3464.05269 | 0.5559 |
| 3462.12393 | 0.55518 |
| 3460.19517 | 0.55424 |
| 3458.26641 | 0.554 |
| 3456.33765 | 0.55409 |
| 3454.40889 | 0.55405 |
| 3452.48013 | 0.55423 |
| 3450.55137 | 0.55495 |
| 3448.62261 | 0.55469 |
| 3446.69385 | 0.55264 |
| 3444.76509 | 0.55152 |
| 3442.83633 | 0.55178 |
| 3440.90757 | 0.55167 |
| 3438.97881 | 0.55151 |
| 3437.05005 | 0.55157 |
| 3435.12129 | 0.5517 |
| 3433.19253 | 0.55183 |
| 3431.26377 | 0.55173 |
| 3429.33501 | 0.55164 |
| 3427.40625 | 0.55185 |
| 3425.47749 | 0.55249 |
| 3423.54873 | 0.55315 |
| 3421.61997 | 0.5528 |
| 3419.69121 | 0.55183 |
| 3417.76245 | 0.55189 |
| 3415.83369 | 0.55271 |
| 3413.90493 | 0.55312 |
| 3411.97618 | 0.55328 |
| 3410.04742 | 0.55356 |
| 3408.11866 | 0.55395 |
| 3406.1899 | 0.5544 |
| 3404.26114 | 0.55475 |
| 3402.33238 | 0.55498 |
| 3400.40362 | 0.55543 |
| 3398.47486 | 0.55596 |
| 3396.5461 | 0.55649 |
| 3394.61734 | 0.55714 |
| 3392.68858 | 0.55741 |
| 3390.75982 | 0.55772 |
| 3388.83106 | 0.55891 |
| 3386.9023 | 0.56013 |
| 3384.97354 | 0.56063 |
| 3383.04478 | 0.56098 |
| 3381.11602 | 0.56173 |
| 3379.18726 | 0.56263 |
| 3377.2585 | 0.56351 |
| 3375.32974 | 0.56443 |
| 3373.40098 | 0.56537 |
| 3371.47222 | 0.56639 |
| 3369.54346 | 0.56746 |
| 3367.6147 | 0.56838 |
| 3365.68594 | 0.56917 |
| 3363.75718 | 0.57008 |
| 3361.82842 | 0.57115 |
| 3359.89966 | 0.57226 |
| 3357.9709 | 0.57351 |
| 3356.04214 | 0.57473 |
| 3354.11338 | 0.57592 |
| 3352.18462 | 0.57727 |
| 3350.25586 | 0.57867 |
| 3348.3271 | 0.58005 |
| 3346.39834 | 0.58151 |
| 3344.46958 | 0.58305 |
| 3342.54082 | 0.58457 |
| 3340.61206 | 0.58613 |
| 3338.6833 | 0.58765 |
| 3336.75454 | 0.58891 |
| 3334.82578 | 0.5902 |
| 3332.89702 | 0.59191 |
| 3330.96826 | 0.5939 |
| 3329.0395 | 0.5958 |
| 3327.11074 | 0.59741 |
| 3325.18198 | 0.59886 |
| 3323.25322 | 0.60046 |
| 3321.32446 | 0.60226 |
| 3319.3957 | 0.60407 |
| 3317.46694 | 0.60589 |
| 3315.53818 | 0.6077 |
| 3313.60942 | 0.60943 |
| 3311.68066 | 0.6111 |
| 3309.7519 | 0.61267 |
| 3307.82314 | 0.61414 |
| 3305.89438 | 0.61586 |
| 3303.96562 | 0.61776 |
| 3302.03686 | 0.61956 |
| 3300.1081 | 0.62132 |
| 3298.17934 | 0.62293 |
| 3296.25058 | 0.62446 |
| 3294.32182 | 0.62607 |
| 3292.39306 | 0.62753 |
| 3290.4643 | 0.62885 |
| 3288.53554 | 0.63036 |
| 3286.60678 | 0.63211 |
| 3284.67802 | 0.63382 |
| 3282.74927 | 0.63531 |
| 3280.82051 | 0.63675 |
| 3278.89175 | 0.63828 |
| 3276.96299 | 0.6397 |
| 3275.03423 | 0.64079 |
| 3273.10547 | 0.64181 |
| 3271.17671 | 0.64312 |
| 3269.24795 | 0.64464 |
| 3267.31919 | 0.64609 |
| 3265.39043 | 0.64738 |
| 3263.46167 | 0.64859 |
| 3261.53291 | 0.64982 |
| 3259.60415 | 0.65104 |
| 3257.67539 | 0.65229 |
| 3255.74663 | 0.65344 |
| 3253.81787 | 0.65439 |
| 3251.88911 | 0.65547 |
| 3249.96035 | 0.65686 |
| 3248.03159 | 0.65825 |
| 3246.10283 | 0.65928 |
| 3244.17407 | 0.66009 |
| 3242.24531 | 0.66125 |
| 3240.31655 | 0.66273 |
| 3238.38779 | 0.66409 |
| 3236.45903 | 0.66526 |
| 3234.53027 | 0.66642 |
| 3232.60151 | 0.6677 |
| 3230.67275 | 0.66903 |
| 3228.74399 | 0.67032 |
| 3226.81523 | 0.67167 |
| 3224.88647 | 0.6732 |
| 3222.95771 | 0.67484 |
| 3221.02895 | 0.67626 |
| 3219.10019 | 0.67748 |
| 3217.17143 | 0.67898 |
| 3215.24267 | 0.6806 |
| 3213.31391 | 0.68207 |
| 3211.38515 | 0.68367 |
| 3209.45639 | 0.68538 |
| 3207.52763 | 0.68712 |
| 3205.59887 | 0.68896 |
| 3203.67011 | 0.6908 |
| 3201.74135 | 0.69266 |
| 3199.81259 | 0.69448 |
| 3197.88383 | 0.69602 |
| 3195.95507 | 0.69753 |
| 3194.02631 | 0.6994 |
| 3192.09755 | 0.70147 |
| 3190.16879 | 0.7035 |
| 3188.24003 | 0.70555 |
| 3186.31127 | 0.70753 |
| 3184.38251 | 0.70938 |
| 3182.45375 | 0.71131 |
| 3180.52499 | 0.71331 |
| 3178.59623 | 0.71504 |
| 3176.66747 | 0.71669 |
| 3174.73871 | 0.71867 |
| 3172.80995 | 0.72075 |
| 3170.88119 | 0.72263 |
| 3168.95243 | 0.72433 |
| 3167.02367 | 0.726 |
| 3165.09491 | 0.72775 |
| 3163.16615 | 0.72948 |
| 3161.23739 | 0.73112 |
| 3159.30863 | 0.7328 |
| 3157.37987 | 0.73454 |
| 3155.45111 | 0.73618 |
| 3153.52236 | 0.73767 |
| 3151.5936 | 0.73915 |
| 3149.66484 | 0.74068 |
| 3147.73608 | 0.74219 |
| 3145.80732 | 0.74361 |
| 3143.87856 | 0.74498 |
| 3141.9498 | 0.74632 |
| 3140.02104 | 0.74753 |
| 3138.09228 | 0.74873 |
| 3136.16352 | 0.75012 |
| 3134.23476 | 0.75133 |
| 3132.306 | 0.7522 |
| 3130.37724 | 0.75323 |
| 3128.44848 | 0.75451 |
| 3126.51972 | 0.75563 |
| 3124.59096 | 0.7565 |
| 3122.6622 | 0.75717 |
| 3120.73344 | 0.75792 |
| 3118.80468 | 0.75885 |
| 3116.87592 | 0.75964 |
| 3114.94716 | 0.76024 |
| 3113.0184 | 0.76085 |
| 3111.08964 | 0.76142 |
| 3109.16088 | 0.7618 |
| 3107.23212 | 0.76202 |
| 3105.30336 | 0.76226 |
| 3103.3746 | 0.76239 |
| 3101.44584 | 0.76232 |
| 3099.51708 | 0.76238 |
| 3097.58832 | 0.76269 |
| 3095.65956 | 0.76271 |
| 3093.7308 | 0.7624 |
| 3091.80204 | 0.76221 |
| 3089.87328 | 0.76208 |
| 3087.94452 | 0.76186 |
| 3086.01576 | 0.76174 |
| 3084.087 | 0.76185 |
| 3082.15824 | 0.76198 |
| 3080.22948 | 0.76179 |
| 3078.30072 | 0.76124 |
| 3076.37196 | 0.76052 |
| 3074.4432 | 0.75974 |
| 3072.51444 | 0.75885 |
| 3070.58568 | 0.75785 |
| 3068.65692 | 0.75673 |
| 3066.72816 | 0.75553 |
| 3064.7994 | 0.7545 |
| 3062.87064 | 0.75393 |
| 3060.94188 | 0.75387 |
| 3059.01312 | 0.75402 |
| 3057.08436 | 0.75405 |
| 3055.1556 | 0.75405 |
| 3053.22684 | 0.7543 |
| 3051.29808 | 0.75463 |
| 3049.36932 | 0.75469 |
| 3047.44056 | 0.75459 |
| 3045.5118 | 0.75453 |
| 3043.58304 | 0.75442 |
| 3041.65428 | 0.75422 |
| 3039.72552 | 0.75405 |
| 3037.79676 | 0.75395 |
| 3035.868 | 0.75382 |
| 3033.93924 | 0.7535 |
| 3032.01048 | 0.75286 |
| 3030.08172 | 0.75222 |
| 3028.15296 | 0.75198 |
| 3026.2242 | 0.7519 |
| 3024.29545 | 0.75177 |
| 3022.36669 | 0.75172 |
| 3020.43793 | 0.75175 |
| 3018.50917 | 0.75158 |
| 3016.58041 | 0.75107 |
| 3014.65165 | 0.75043 |
| 3012.72289 | 0.74977 |
| 3010.79413 | 0.74906 |
| 3008.86537 | 0.7485 |
| 3006.93661 | 0.7482 |
| 3005.00785 | 0.74788 |
| 3003.07909 | 0.74742 |
| 3001.15033 | 0.74703 |
| 2999.22157 | 0.74679 |
| 2997.29281 | 0.74659 |
| 2995.36405 | 0.74617 |
| 2993.43529 | 0.74556 |
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| 2952.93133 | 0.7284 |
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| 2922.07117 | 0.71619 |
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| 2906.64109 | 0.71569 |
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| 2891.21102 | 0.71846 |
| 2889.28226 | 0.71905 |
| 2887.3535 | 0.71956 |
| 2885.42474 | 0.71992 |
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| 1878.61209 | 1.00094 |
| 1876.68333 | 1.00112 |
| 1874.75457 | 1.0013 |
| 1872.82581 | 1.00135 |
| 1870.89705 | 1.00097 |
| 1868.96829 | 0.99984 |
| 1867.03954 | 0.99947 |
| 1865.11078 | 1.00042 |
| 1863.18202 | 1.0013 |
| 1861.25326 | 1.00148 |
| 1859.3245 | 1.00136 |
| 1857.39574 | 1.00125 |
| 1855.46698 | 1.00123 |
| 1853.53822 | 1.00123 |
| 1851.60946 | 1.00124 |
| 1849.6807 | 1.00114 |
| 1847.75194 | 1.00084 |
| 1845.82318 | 1.00009 |
| 1843.89442 | 0.99902 |
| 1841.96566 | 0.99906 |
| 1840.0369 | 0.99982 |
| 1838.10814 | 1 |
| 1836.17938 | 0.99986 |
| 1834.25062 | 0.99989 |
| 1832.32186 | 0.99961 |
| 1830.3931 | 0.99838 |
| 1828.46434 | 0.99751 |
| 1826.53558 | 0.99771 |
| 1824.60682 | 0.99782 |
| 1822.67806 | 0.99797 |
| 1820.7493 | 0.99838 |
| 1818.82054 | 0.99842 |
| 1816.89178 | 0.9982 |
| 1814.96302 | 0.99809 |
| 1813.03426 | 0.99782 |
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| 1809.17674 | 0.99684 |
| 1807.24798 | 0.99719 |
| 1805.31922 | 0.99765 |
| 1803.39046 | 0.99765 |
| 1801.4617 | 0.99696 |
| 1799.53294 | 0.99629 |
| 1797.60418 | 0.99637 |
| 1795.67542 | 0.99655 |
| 1793.74666 | 0.99569 |
| 1791.8179 | 0.99393 |
| 1789.88914 | 0.99365 |
| 1787.96038 | 0.9945 |
| 1786.03162 | 0.99458 |
| 1784.10286 | 0.99387 |
| 1782.1741 | 0.99303 |
| 1780.24534 | 0.99215 |
| 1778.31658 | 0.99166 |
| 1776.38782 | 0.99156 |
| 1774.45906 | 0.99059 |
| 1772.5303 | 0.98807 |
| 1770.60154 | 0.98653 |
| 1768.67278 | 0.98693 |
| 1766.74402 | 0.98757 |
| 1764.81526 | 0.98785 |
| 1762.8865 | 0.987 |
| 1760.95774 | 0.98537 |
| 1759.02898 | 0.98464 |
| 1757.10022 | 0.984 |
| 1755.17146 | 0.98341 |
| 1753.2427 | 0.98309 |
| 1751.31394 | 0.98108 |
| 1749.38518 | 0.97767 |
| 1747.45642 | 0.97599 |
| 1745.52766 | 0.97572 |
| 1743.5989 | 0.97527 |
| 1741.67014 | 0.97391 |
| 1739.74138 | 0.97187 |
| 1737.81263 | 0.97085 |
| 1735.88387 | 0.96982 |
| 1733.95511 | 0.96532 |
| 1732.02635 | 0.96167 |
| 1730.09759 | 0.96142 |
| 1728.16883 | 0.96116 |
| 1726.24007 | 0.96024 |
| 1724.31131 | 0.95827 |
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| 1718.52503 | 0.94944 |
| 1716.59627 | 0.94082 |
| 1714.66751 | 0.93603 |
| 1712.73875 | 0.9347 |
| 1710.80999 | 0.93303 |
| 1708.88123 | 0.9301 |
| 1706.95247 | 0.92442 |
| 1705.02371 | 0.91715 |
| 1703.09495 | 0.91204 |
| 1701.16619 | 0.90323 |
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| 1697.30867 | 0.8693 |
| 1695.37991 | 0.84805 |
| 1693.45115 | 0.82993 |
| 1691.52239 | 0.81599 |
| 1689.59363 | 0.79949 |
| 1687.66487 | 0.78569 |
| 1685.73611 | 0.77206 |
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| 1681.87859 | 0.73208 |
| 1679.94983 | 0.73125 |
| 1678.02107 | 0.73228 |
| 1676.09231 | 0.72987 |
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| 1672.23479 | 0.72334 |
| 1670.30603 | 0.71991 |
| 1668.37727 | 0.7143 |
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| 1654.87595 | 0.73708 |
| 1652.94719 | 0.72786 |
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| 1649.08967 | 0.73096 |
| 1647.16091 | 0.72911 |
| 1645.23215 | 0.72309 |
| 1643.30339 | 0.72417 |
| 1641.37463 | 0.72694 |
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| 1637.51711 | 0.72683 |
| 1635.58835 | 0.71673 |
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| 1631.73083 | 0.71465 |
| 1629.80207 | 0.71781 |
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| 1624.01579 | 0.71851 |
| 1622.08703 | 0.71906 |
| 1620.15827 | 0.72373 |
| 1618.22951 | 0.72836 |
| 1616.30075 | 0.72858 |
| 1614.37199 | 0.73131 |
| 1612.44323 | 0.73799 |
| 1610.51447 | 0.74331 |
| 1608.58572 | 0.74586 |
| 1606.65696 | 0.74706 |
| 1604.7282 | 0.74642 |
| 1602.79944 | 0.74205 |
| 1600.87068 | 0.73637 |
| 1598.94192 | 0.7368 |
| 1597.01316 | 0.74667 |
| 1595.0844 | 0.76239 |
| 1593.15564 | 0.77817 |
| 1591.22688 | 0.79101 |
| 1589.29812 | 0.80058 |
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| 1568.08176 | 0.85914 |
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| 1552.65168 | 0.88859 |
| 1550.72292 | 0.89072 |
| 1548.79416 | 0.89216 |
| 1546.8654 | 0.89372 |
| 1544.93664 | 0.89426 |
| 1543.00788 | 0.89271 |
| 1541.07912 | 0.88872 |
| 1539.15036 | 0.88656 |
| 1537.2216 | 0.89142 |
| 1535.29284 | 0.89696 |
| 1533.36408 | 0.89986 |
| 1531.43532 | 0.9026 |
| 1529.50656 | 0.90624 |
| 1527.5778 | 0.90792 |
| 1525.64904 | 0.90678 |
| 1523.72028 | 0.90212 |
| 1521.79152 | 0.88639 |
| 1519.86276 | 0.86015 |
| 1517.934 | 0.82658 |
| 1516.00524 | 0.78576 |
| 1514.07648 | 0.7579 |
| 1512.14772 | 0.74826 |
| 1510.21896 | 0.74822 |
| 1508.2902 | 0.75187 |
| 1506.36144 | 0.75745 |
| 1504.43268 | 0.77127 |
| 1502.50392 | 0.78951 |
| 1500.57516 | 0.80967 |
| 1498.6464 | 0.83203 |
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| 1477.43005 | 0.9648 |
| 1475.50129 | 0.96648 |
| 1473.57253 | 0.968 |
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| 1458.14245 | 0.97265 |
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| 1454.28493 | 0.94863 |
| 1452.35617 | 0.93645 |
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| 1446.56989 | 0.92107 |
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| 1442.71237 | 0.93654 |
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| 1404.13717 | 0.99496 |
| 1402.20841 | 0.99565 |
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| 1392.56461 | 0.98706 |
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| 1382.92081 | 0.97703 |
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| 1375.20577 | 0.97718 |
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| 1361.70445 | 0.88607 |
| 1359.77569 | 0.88709 |
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| 1355.91817 | 0.91829 |
| 1353.98941 | 0.93779 |
| 1352.06066 | 0.95357 |
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| 1321.2005 | 0.98381 |
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| 1313.48546 | 0.96451 |
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| 1309.62794 | 0.96157 |
| 1307.69918 | 0.95985 |
| 1305.77042 | 0.95795 |
| 1303.84166 | 0.95804 |
| 1301.9129 | 0.96136 |
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| 1298.05538 | 0.97234 |
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| 1294.19786 | 0.9786 |
| 1292.2691 | 0.97897 |
| 1290.34034 | 0.9774 |
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| 1286.48282 | 0.96685 |
| 1284.55406 | 0.95615 |
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| 1271.05274 | 0.82429 |
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| 773.4327 | 0.89617 |
| 771.50394 | 0.88312 |
| 769.57518 | 0.86874 |
| 767.64642 | 0.85486 |
| 765.71766 | 0.84373 |
| 763.7889 | 0.83734 |
| 761.86014 | 0.83688 |
| 759.93138 | 0.84263 |
| 758.00262 | 0.85371 |
| 756.07386 | 0.8678 |
| 754.1451 | 0.88167 |
| 752.21634 | 0.89294 |
| 750.28758 | 0.90114 |
| 748.35882 | 0.90698 |
| 746.43006 | 0.91124 |
| 744.5013 | 0.91438 |
| 742.57254 | 0.91659 |
| 740.64378 | 0.91799 |
| 738.71502 | 0.91874 |
| 736.78626 | 0.91896 |
| 734.8575 | 0.91881 |
| 732.92874 | 0.91856 |
| 730.99998 | 0.91844 |
| 729.07122 | 0.91871 |
| 727.14246 | 0.91927 |
| 725.2137 | 0.91957 |
| 723.28494 | 0.91864 |
| 721.35618 | 0.91654 |
| 719.42742 | 0.91549 |
| 717.49866 | 0.9161 |
| 715.5699 | 0.91587 |
| 713.64114 | 0.91358 |
| 711.71238 | 0.91008 |
| 709.78362 | 0.90615 |
| 707.85487 | 0.902 |
| 705.92611 | 0.89769 |
| 703.99735 | 0.89321 |
| 702.06859 | 0.88821 |
| 700.13983 | 0.88161 |
| 698.21107 | 0.87217 |
| 696.28231 | 0.85971 |
| 694.35355 | 0.84632 |
| 692.42479 | 0.83612 |
| 690.49603 | 0.83343 |
| 688.56727 | 0.83971 |
| 686.63851 | 0.85163 |
| 684.70975 | 0.86349 |
| 682.78099 | 0.87189 |
| 680.85223 | 0.87681 |
| 678.92347 | 0.87969 |
| 676.99471 | 0.88196 |
| 675.06595 | 0.88424 |
| 673.13719 | 0.88529 |
| 671.20843 | 0.88152 |
| 669.27967 | 0.87355 |
| 667.35091 | 0.87765 |
| 665.42215 | 0.89069 |
| 663.49339 | 0.89634 |
| 661.56463 | 0.89583 |
| 659.63587 | 0.89382 |
| 657.70711 | 0.89228 |
| 655.77835 | 0.89135 |
| 653.84959 | 0.89108 |
| 651.92083 | 0.89105 |
| 649.99207 | 0.89095 |
| 648.06331 | 0.89149 |
| 646.13455 | 0.89279 |
| 644.20579 | 0.89379 |
| 642.27703 | 0.89464 |
| 640.34827 | 0.8964 |
| 638.41951 | 0.89904 |
| 636.49075 | 0.90164 |
| 634.56199 | 0.90361 |
| 632.63323 | 0.90504 |
| 630.70447 | 0.90615 |
| 628.77571 | 0.9069 |
| 626.84695 | 0.90712 |
| 624.91819 | 0.90698 |
| 622.98943 | 0.90668 |
| 621.06067 | 0.90543 |
| 619.13191 | 0.90274 |
| 617.20315 | 0.90088 |
| 615.27439 | 0.90182 |
| 613.34563 | 0.90356 |
| 611.41687 | 0.90415 |
| 609.48811 | 0.90374 |
| 607.55935 | 0.90269 |
| 605.63059 | 0.90093 |
| 603.70183 | 0.89817 |
| 601.77307 | 0.89377 |
| 599.84431 | 0.88725 |
| 597.91555 | 0.87911 |
| 595.98679 | 0.871 |
| 594.05803 | 0.86453 |
| 592.12927 | 0.86023 |
| 590.20051 | 0.85847 |
| 588.27175 | 0.86112 |
| 586.34299 | 0.86927 |
| 584.41423 | 0.88016 |
| 582.48547 | 0.88936 |
| 580.55671 | 0.89529 |
| 578.62796 | 0.89852 |
| 576.6992 | 0.89968 |
| 574.77044 | 0.89996 |
| 572.84168 | 0.90078 |
| 570.91292 | 0.90222 |
| 568.98416 | 0.90376 |
| 567.0554 | 0.90522 |
| 565.12664 | 0.90646 |
| 563.19788 | 0.9074 |
| 561.26912 | 0.90811 |
| 559.34036 | 0.90855 |
| 557.4116 | 0.90893 |
| 555.48284 | 0.90967 |
| 553.55408 | 0.91061 |
| 551.62532 | 0.91138 |
| 549.69656 | 0.91198 |
| 547.7678 | 0.91249 |
| 545.83904 | 0.91309 |
| 543.91028 | 0.91392 |
| 541.98152 | 0.91465 |
| 540.05276 | 0.9151 |
| 538.124 | 0.91565 |
| 536.19524 | 0.91633 |
| 534.26648 | 0.9168 |
| 532.33772 | 0.91708 |
| 530.40896 | 0.91762 |
| 528.4802 | 0.91837 |
| 526.55144 | 0.91866 |
| 524.62268 | 0.91861 |
| 522.69392 | 0.91912 |
| 520.76516 | 0.91989 |
| 518.8364 | 0.92033 |
| 516.90764 | 0.92076 |
| 514.97888 | 0.92146 |
| 513.05012 | 0.92222 |
| 511.12136 | 0.92274 |
| 509.1926 | 0.92274 |
| 507.26384 | 0.92221 |
| 505.33508 | 0.92152 |
| 503.40632 | 0.92038 |
| 501.47756 | 0.91842 |
| 499.5488 | 0.91662 |
| 497.62004 | 0.91542 |
| 495.69128 | 0.91445 |
| 493.76252 | 0.91369 |
| 491.83376 | 0.91313 |
| 489.905 | 0.91304 |
| 487.97624 | 0.91346 |
| 486.04748 | 0.91399 |
| 484.11872 | 0.91475 |
| 482.18996 | 0.91631 |
| 480.2612 | 0.91841 |
| 478.33244 | 0.92041 |
| 476.40368 | 0.92232 |
| 474.47492 | 0.92418 |
| 472.54616 | 0.92604 |
| 470.6174 | 0.92862 |
| 468.68864 | 0.93165 |
| 466.75988 | 0.93431 |
| 464.83112 | 0.93674 |
| 462.90236 | 0.9391 |
| 460.9736 | 0.94139 |
| 459.04484 | 0.94379 |
| 457.11608 | 0.94612 |
| 455.18732 | 0.94854 |
| 453.25856 | 0.95086 |
| 451.3298 | 0.95258 |
| 449.40105 | 0.9542 |
| 447.47229 | 0.9561 |
| 445.54353 | 0.95769 |
| 443.61477 | 0.9586 |
| 441.68601 | 0.9596 |
| 439.75725 | 0.96135 |
| 437.82849 | 0.9634 |
| 435.89973 | 0.96525 |
| 433.97097 | 0.96704 |
| 432.04221 | 0.96929 |
| 430.11345 | 0.97175 |
| 428.18469 | 0.9735 |
| 426.25593 | 0.97413 |
| 424.32717 | 0.97426 |
| 422.39841 | 0.97497 |
| 420.46965 | 0.97606 |
| 418.54089 | 0.9769 |
| 416.61213 | 0.97828 |
| 414.68337 | 0.98045 |
| 412.75461 | 0.98292 |
| 410.82585 | 0.98563 |
| 408.89709 | 0.9883 |
| 406.96833 | 0.99004 |
| 405.03957 | 0.99087 |
| 403.11081 | 0.99204 |
| 401.18205 | 0.9949 |
| 399.25329 | 1 |

**Table 7**: The test results of FTIR spectra of PPAPO, which were used for plotting the Figure 2.