**Automotive Qualification Results Summary of 14x14 TQFP\_EP Package Using G631HQ/3230 at Amkor Philippines**

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| QUALIFICATION PLAN / STATUS | | | |
| **Test** | **Specification** | **Sample Size** | **RESULTS** |
| Temperature Cycle (TC)\* | JEDEC*JESD22-A104* | 3 x 77 | Pass |
| Unbiased HAST (uHAST)\* | JEDEC *JESD22-A118* | 3 x 77 | Pass |
| Highly Accelerated Stress Test (HAST)\* | JEDEC *JESD22-A110* | 3 x 77 | Pass |
| Solder Heat Resistance  (SHR)\* | JEDEC/IPC *J-STD-020* | 3 x 11 | Pass |
| High Temperature Storage Life  (HTSL) | JEDEC *JESD22-A103* | 1 x 45 | Pass |
| Electrostatic Discharge  *Field-Induced Charged*  *Device Model* | JEDEC *JESD22-C101* | 3/Voltage | Pass 1000V |

\* These samples will be subjected to preconditioning (per J-STD-020 Level 3) prior to the start of the stress test. Level 3 preconditioning consists of the following: 1. Bake – 24 hours at 125ºC; 2. Soak – unbiased soak for 192 hours at 30ºC, 60%RH; 3. Reflow – three passes through a reflow oven with a peak temperature of 260ºC. TC samples will be subjected to wire-pull test after 500 cycles