**Verification Form – GEMC 317**

|  |  |
| --- | --- |
| Equipment Number: GEMC 317 | Date: 2019-06-09 |
| Manufacturer: Teseq | Temperature: |
| Model: NSG 3060 | Humidity: |
| Auxiliary Equipment:   * GEMC 264 (Oscilloscope) * GEMC 204 (50Ω Load) * CANE 00176 (Differential Probe) | Pressure: |
| Next Cal Date: | Standard: IEC 61000-4-4/4-5/4-12 |

|  |  |
| --- | --- |
| Tester: Jadon Bull | Signature: |

**Diagram**:



**Results**:

|  |  |  |
| --- | --- | --- |
| **Visual Condition** | | |
| Pass | Fail | Comments |
| **✓** |  |  |

EFT (IEC 61000-4-4)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Verification of Function** | | | | |
| Item | Required | Tolerance | Measured | Results |
| Peak Voltage (kV) | 2 ± 10% | 1.8 – 2.2 | 2.0 | PASS |
| Rise Time (ns) | 5 ± 30% | 3.5 – 6.5 | 4.5 | PASS |
| Fall Time (ns) | 50 ± 30% | 35 – 65 | 45.0 | PASS |
| Burst Period (ms) | 15 ± 3 | 12 – 18 | 15.0 | PASS |
| Burst Duration (ms) | 300 ± 60 | 240 - 360 | 300.0 | PASS |

Surge (IEC 61000-4-5)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Verification of Function** | | | | |
| Item | Required | Tolerance | Measured | Results |
| Peak Voltage (kV) | 2 ± 10% | 1.8 – 22 |  | PASS |
| Front Time (μs) | 1.2 ± 30% | 0.84 – 1.56 |  | PASS |
| Fall Time (μs) | 50 ± 20% | 40 - 60 |  | PASS |

Ring Wave (IEC 61000-4-12)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Verification of Function** | | | | |
| Item | Required | Tolerance | Measured | Results |
| Peak Voltage (kV) | 2 ± 10% | 1.8 – 2.2 |  | PASS |
| Rise Time (μs) | 0.5 ± 30% | 0.35 – 0.65 |  | PASS |
| Oscillation Frequency (kHz) | 100 ± 10% | 90 – 110 |  | PASS |
| Decaying (Pk2/Pk1) | -- | 0.4 – 1.1 |  | PASS |
| Decaying (Pk3/Pk2) | -- | 0.4 – 0.8 |  | PASS |
| Decaying (Pk4/Pk3) | -- | 0.4 – 0.8 |  | PASS |

**Action:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Repaired: |  | Scrapped: |  | Continue Use: | **✓** |

**Comments:**

All measured values found within tolerance and meets standard requirements.

**Verification Setup Photo:**

