



## Appendix A for Emission and Immunity test results

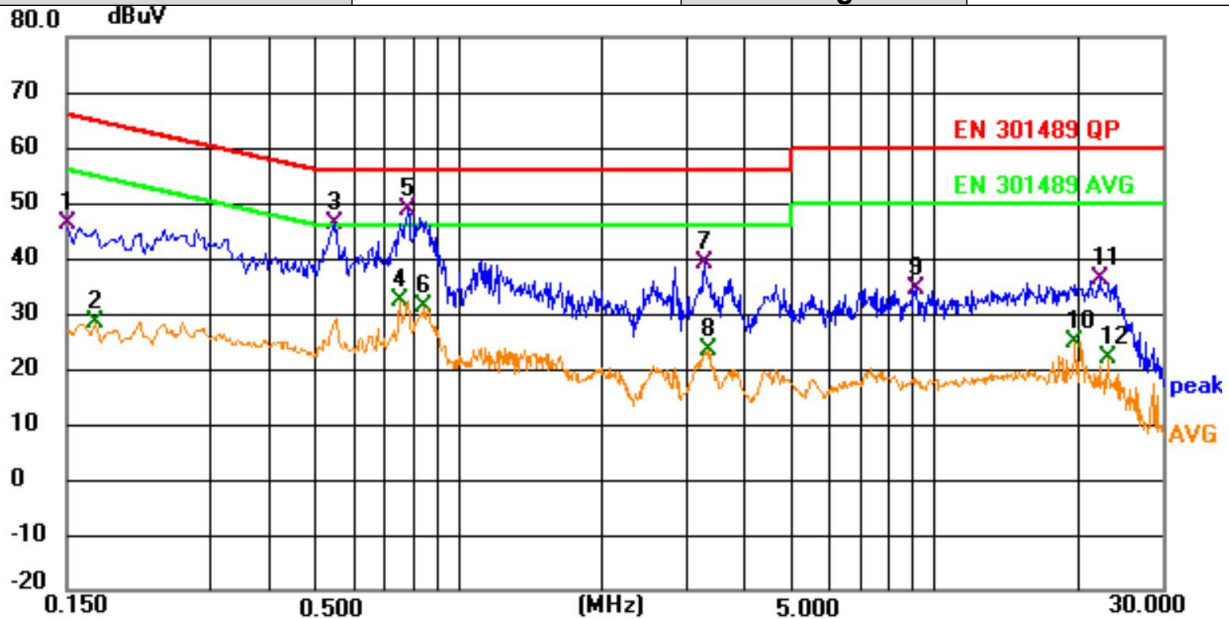
Product Name: Smartphone

Test Model: KINGKONG ES

### A.1 Line Conducted Emission

Adapter1 Model: HJ-0502000W2-EU

|                          |                  |               |              |
|--------------------------|------------------|---------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode     | TM1          |
| Environmental Conditions | 22.5°C, 53.7% RH | Test Engineer | Paddi Chen   |
| Pol.                     | Line             | Test Voltage  | AC 230V/50Hz |



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit | Margin |          |         |
|-----|-----|--------|---------------|----------------|--------------|-------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV         | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.150  | 26.32         | 19.89          | 46.21        | 66.00 | -19.79 | QP       |         |
| 2   |     | 0.172  | 8.44          | 19.79          | 28.23        | 54.86 | -26.63 | AVG      |         |
| 3   |     | 0.546  | 26.70         | 19.70          | 46.40        | 56.00 | -9.60  | QP       |         |
| 4   |     | 0.753  | 13.26         | 19.15          | 32.41        | 46.00 | -13.59 | AVG      |         |
| 5   | *   | 0.784  | 29.80         | 19.11          | 48.91        | 56.00 | -7.09  | QP       |         |
| 6   |     | 0.848  | 12.08         | 19.03          | 31.11        | 46.00 | -14.89 | AVG      |         |
| 7   |     | 3.282  | 19.95         | 19.21          | 39.16        | 56.00 | -16.84 | QP       |         |
| 8   |     | 3.332  | 4.03          | 19.22          | 23.25        | 46.00 | -22.75 | AVG      |         |
| 9   |     | 9.204  | 14.84         | 19.55          | 34.39        | 60.00 | -25.61 | QP       |         |
| 10  |     | 19.712 | 5.60          | 19.12          | 24.72        | 50.00 | -25.28 | AVG      |         |
| 11  |     | 22.213 | 17.18         | 18.90          | 36.08        | 60.00 | -23.92 | QP       |         |
| 12  |     | 23.131 | 3.14          | 18.84          | 21.98        | 50.00 | -28.02 | AVG      |         |



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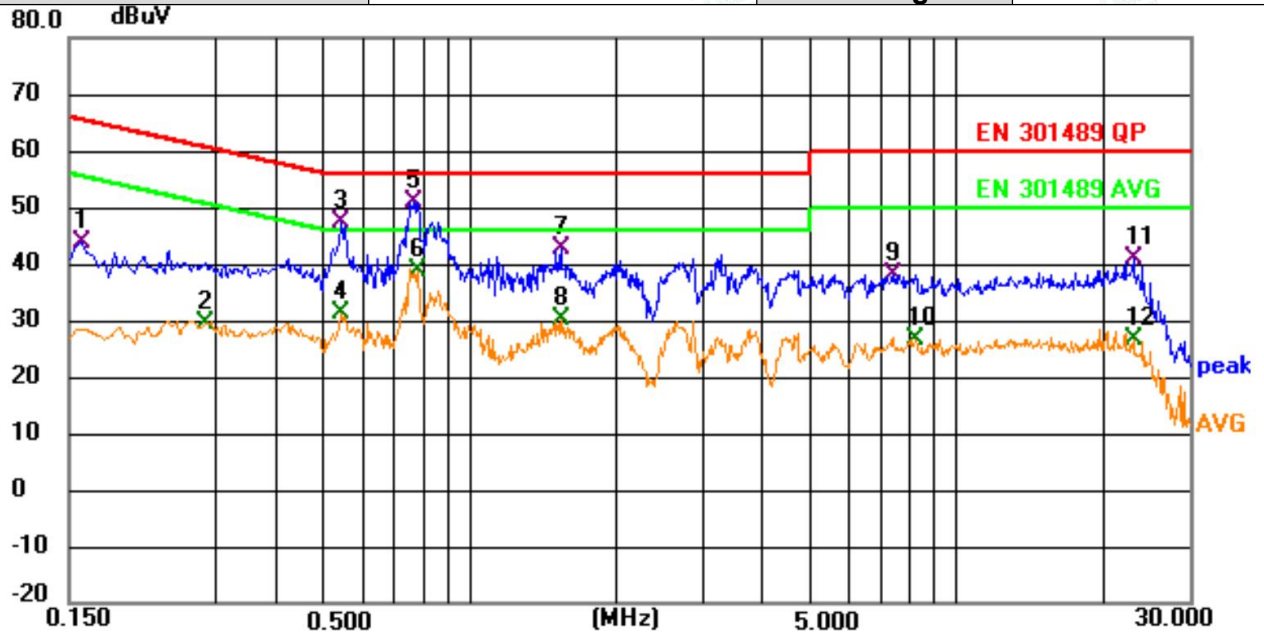
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|                          |                  |               |              |
|--------------------------|------------------|---------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode     | TM1          |
| Environmental Conditions | 22.5°C, 53.7% RH | Test Engineer | Paddi Chen   |
| Pol.                     | Neutral          | Test Voltage  | AC 230V/50Hz |



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.159  | 24.19         | 19.62          | 43.81       | 65.52 | -21.71 | QP       |         |
| 2   |     | 0.285  | 9.71          | 19.78          | 29.49       | 50.67 | -21.18 | AVG      |         |
| 3   |     | 0.541  | 27.79         | 19.41          | 47.20       | 56.00 | -8.80  | QP       |         |
| 4   |     | 0.541  | 11.77         | 19.41          | 31.18       | 46.00 | -14.82 | AVG      |         |
| 5   | *   | 0.766  | 31.69         | 19.30          | 50.99       | 56.00 | -5.01  | QP       |         |
| 6   |     | 0.780  | 19.61         | 19.25          | 38.86       | 46.00 | -7.14  | AVG      |         |
| 7   |     | 1.540  | 23.74         | 18.98          | 42.72       | 56.00 | -13.28 | QP       |         |
| 8   |     | 1.540  | 11.31         | 18.98          | 30.29       | 46.00 | -15.71 | AVG      |         |
| 9   |     | 7.372  | 18.36         | 19.73          | 38.09       | 60.00 | -21.91 | QP       |         |
| 10  |     | 8.268  | 6.67          | 19.89          | 26.56       | 50.00 | -23.44 | AVG      |         |
| 11  |     | 23.127 | 21.67         | 19.24          | 40.91       | 60.00 | -19.09 | QP       |         |
| 12  |     | 23.127 | 7.40          | 19.24          | 26.64       | 50.00 | -23.36 | AVG      |         |

Note: For conducted emission and radiated emission test, a power supply of 230VAC and 120VAC was used for testing respectively, and only recorded the worst case of 230VAC.

Margin= Reading Level + Correct Factor – Limit

Correct Factor=Lisn Factor+Cable Factor



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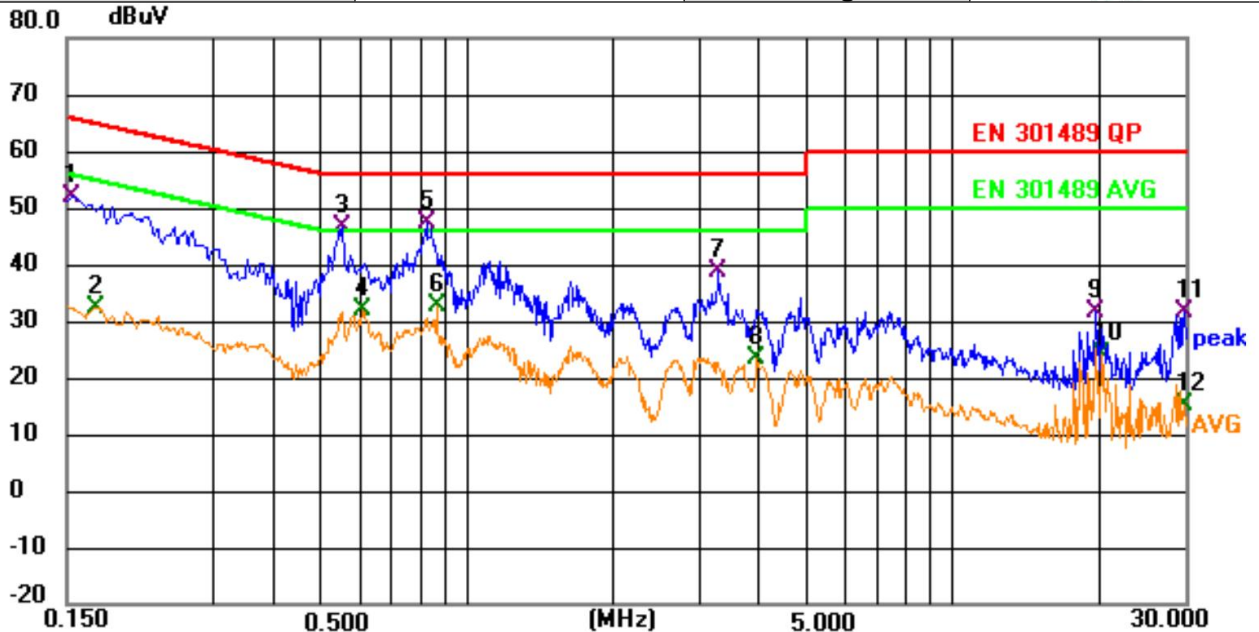
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Adapter2 Model: QZ-01001EA00

|                          |                  |               |              |
|--------------------------|------------------|---------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode     | TM1          |
| Environmental Conditions | 22.5°C, 53.7% RH | Test Engineer | Paddi Chen   |
| Pol.                     | Line             | Test Voltage  | AC 230V/50Hz |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Margin<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|--------------|----------|---------|
| 1   |     | 0.154        | 32.26                    | 19.87                   | 52.13                    | 65.79         | -13.66       | QP       |         |
| 2   |     | 0.172        | 12.67                    | 19.79                   | 32.46                    | 54.86         | -22.40       | AVG      |         |
| 3   |     | 0.555        | 27.06                    | 19.67                   | 46.73                    | 56.00         | -9.27        | QP       |         |
| 4   |     | 0.609        | 12.39                    | 19.50                   | 31.89                    | 46.00         | -14.11       | AVG      |         |
| 5   | *   | 0.830        | 28.25                    | 19.06                   | 47.31                    | 56.00         | -8.69        | QP       |         |
| 6   |     | 0.870        | 13.72                    | 19.05                   | 32.77                    | 46.00         | -13.23       | AVG      |         |
| 7   |     | 3.296        | 19.40                    | 19.21                   | 38.61                    | 56.00         | -17.39       | QP       |         |
| 8   |     | 3.948        | 4.30                     | 19.17                   | 23.47                    | 46.00         | -22.53       | AVG      |         |
| 9   |     | 19.712       | 12.32                    | 19.12                   | 31.44                    | 60.00         | -28.56       | QP       |         |
| 10  |     | 20.261       | 4.89                     | 19.04                   | 23.93                    | 50.00         | -26.07       | AVG      |         |
| 11  |     | 29.909       | 12.40                    | 19.15                   | 31.55                    | 60.00         | -28.45       | QP       |         |
| 12  |     | 29.909       | -4.04                    | 19.15                   | 15.11                    | 50.00         | -34.89       | AVG      |         |



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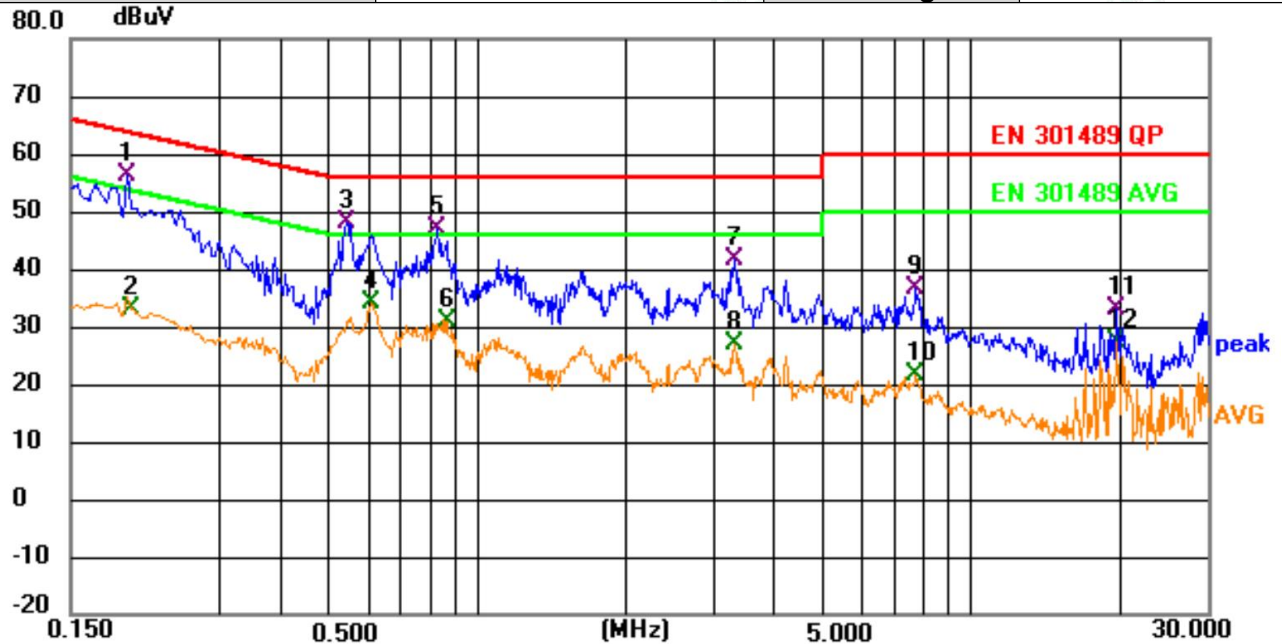
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|                          |                  |               |              |
|--------------------------|------------------|---------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode     | TM1          |
| Environmental Conditions | 22.5°C, 53.7% RH | Test Engineer | Paddi Chen   |
| Pol.                     | Neutral          | Test Voltage  | AC 230V/50Hz |



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Margin |          |         |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   | *   | 0.195  | 36.55         | 19.75          | 56.30       | 63.83 | -7.53  | QP       |         |
| 2   |     | 0.200  | 13.34         | 19.78          | 33.12       | 53.61 | -20.49 | AVG      |         |
| 3   |     | 0.541  | 28.58         | 19.41          | 47.99       | 56.00 | -8.01  | QP       |         |
| 4   |     | 0.609  | 14.58         | 19.45          | 34.03       | 46.00 | -11.97 | AVG      |         |
| 5   |     | 0.834  | 27.98         | 19.06          | 47.04       | 56.00 | -8.96  | QP       |         |
| 6   |     | 0.870  | 11.90         | 18.98          | 30.88       | 46.00 | -15.12 | AVG      |         |
| 7   |     | 3.313  | 22.49         | 18.99          | 41.48       | 56.00 | -14.52 | QP       |         |
| 8   |     | 3.313  | 7.80          | 18.99          | 26.79       | 46.00 | -19.21 | AVG      |         |
| 9   |     | 7.710  | 16.90         | 19.84          | 36.74       | 60.00 | -23.26 | QP       |         |
| 10  |     | 7.710  | 1.84          | 19.84          | 21.68       | 50.00 | -28.32 | AVG      |         |
| 11  |     | 19.712 | 14.09         | 19.09          | 33.18       | 60.00 | -26.82 | QP       |         |
| 12  |     | 19.712 | 8.36          | 19.09          | 27.45       | 50.00 | -22.55 | AVG      |         |

Note: For conducted emission and radiated emission test, a power supply of 230VAC and 120VAC was used for testing respectively, and only recorded the worst case of 230VAC.

Margin= Reading Level + Correct Factor – Limit

Correct Factor=Lish Factor+Cable Factor



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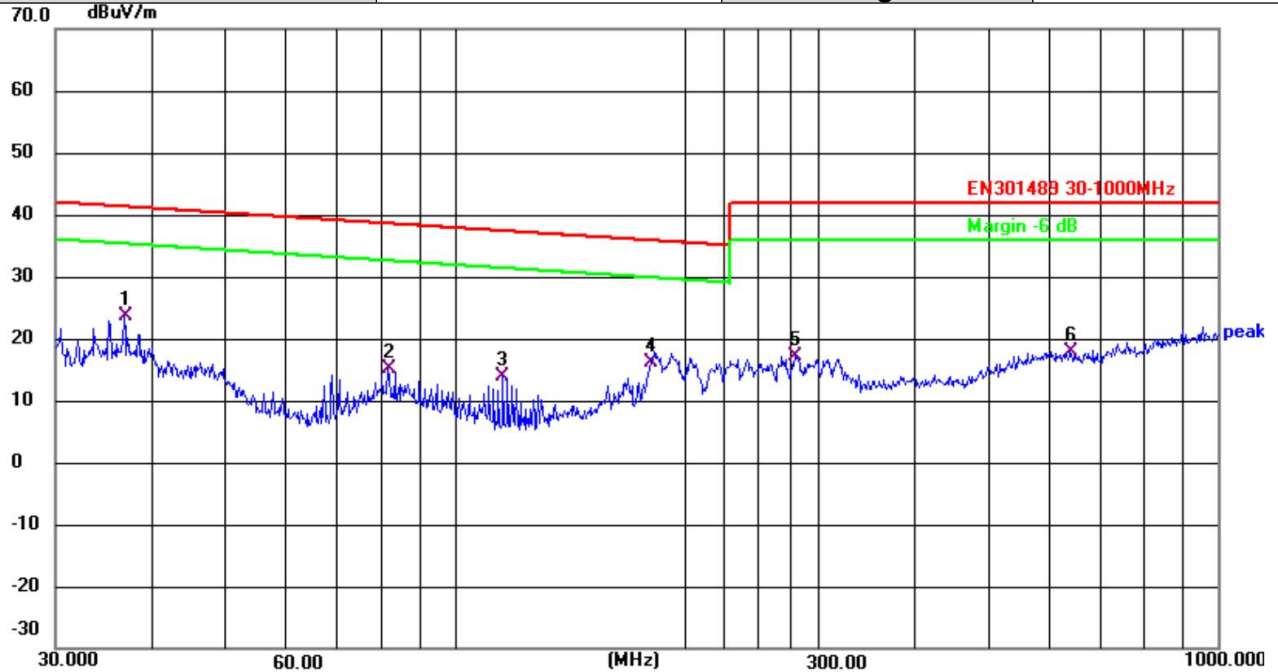




### A.3 Radiated Disturbance

Adapter1 Model: HJ-0502000W2-EU

|                          |                  |                   |              |
|--------------------------|------------------|-------------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode         | TM1          |
| Environmental Conditions | 23.8°C, 52.1% RH | Test Engineer     | Paddi Chen   |
| Pol.                     | Vertical         | Detector Function | Quasi-peak   |
| Distance                 | 3m               | Test Voltage      | AC 230V/50Hz |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 36.8953         | 41.29          | -17.69        | 23.60          | 41.29          | -17.69      | QP       |
| 2   | 81.7832         | 34.72          | -19.70        | 15.02          | 38.55          | -23.53      | QP       |
| 3   | 115.7256        | 33.53          | -19.57        | 13.96          | 37.36          | -23.40      | QP       |
| 4   | 180.6488        | 34.76          | -18.66        | 16.10          | 35.83          | -19.73      | QP       |
| 5   | 280.0237        | 32.64          | -15.41        | 17.23          | 42.00          | -24.77      | QP       |
| 6   | 640.6110        | 29.04          | -11.05        | 17.99          | 42.00          | -24.01      | QP       |



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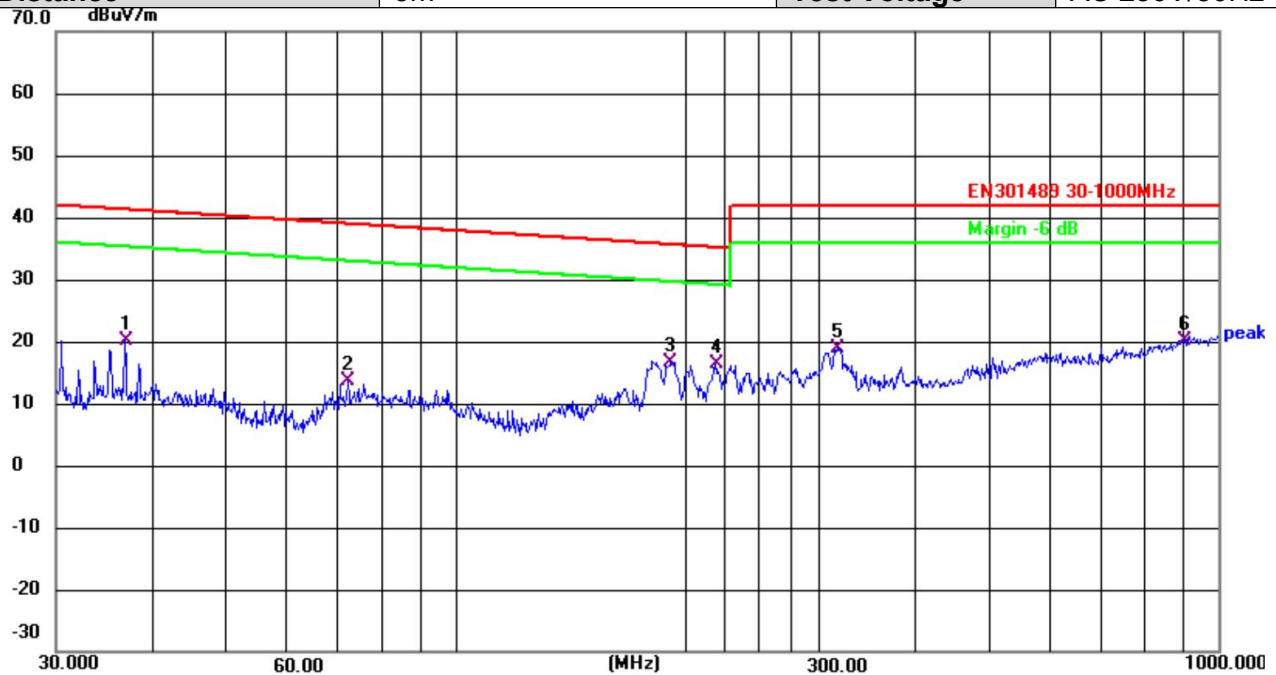
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|                          |                  |                   |              |
|--------------------------|------------------|-------------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode         | TM1          |
| Environmental Conditions | 23.8°C, 52.1% RH | Test Engineer     | Paddi Chen   |
| Pol.                     | Horizontal       | Detector Function | Quasi-peak   |
| Distance                 | 3m               | Test Voltage      | AC 230V/50Hz |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 36.8953         | 37.76          | -17.69        | 20.07          | 41.29          | -21.22      | QP       |
| 2   | 72.3375         | 33.14          | -19.56        | 13.58          | 38.98          | -25.40      | QP       |
| 3   | 191.7450        | 34.03          | -17.35        | 16.68          | 35.63          | -18.95      | QP       |
| 4   | 219.0753        | 33.25          | -16.90        | 16.35          | 35.17          | -18.82      | QP       |
| 5   | 316.5889        | 33.64          | -14.66        | 18.98          | 42.00          | -23.02      | QP       |
| 6   | 900.1474        | 28.43          | -8.30         | 20.13          | 42.00          | -21.87      | QP       |

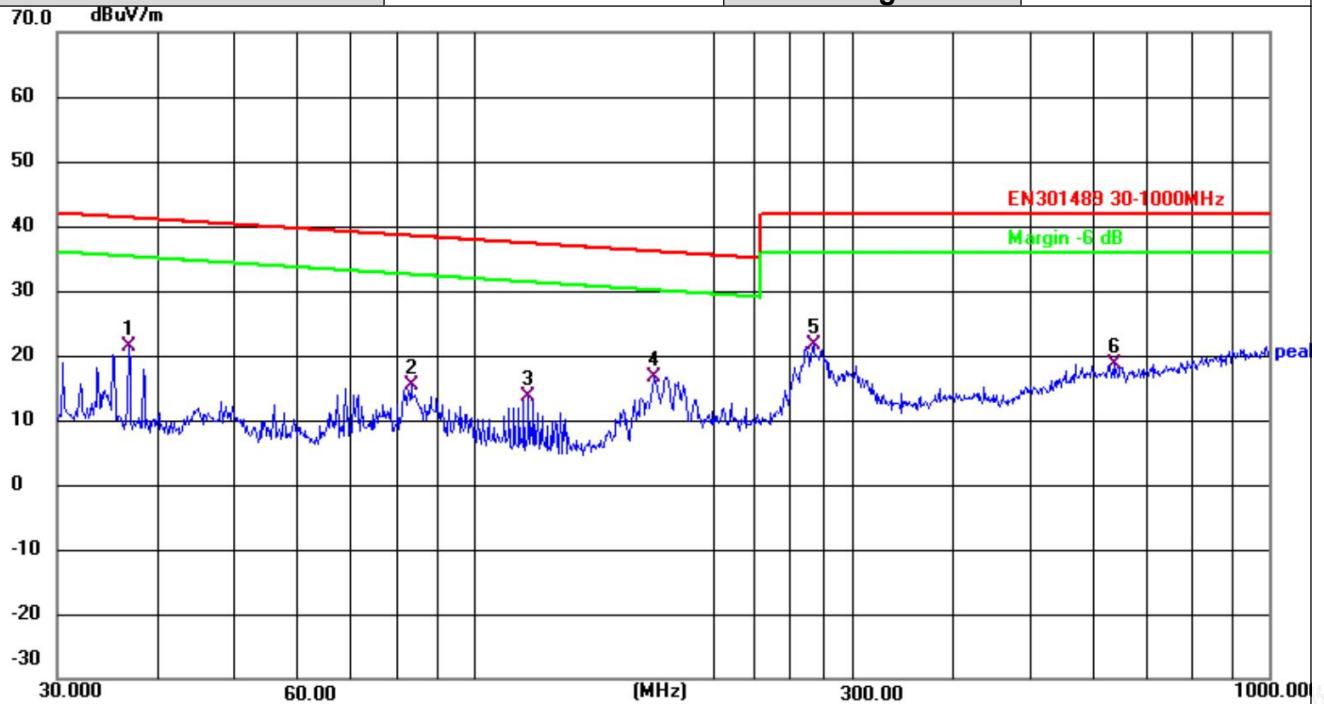
Note: Margin= Reading Level + Correct Factor – Limit  
Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor





Adapter2 Model: QZ-01001EA00

|                          |                  |                   |              |
|--------------------------|------------------|-------------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode         | TM1          |
| Environmental Conditions | 23.8°C, 52.1% RH | Test Engineer     | Paddi Chen   |
| Pol.                     | Vertical         | Detector Function | Quasi-peak   |
| Distance                 | 3m               | Test Voltage      | AC 230V/50Hz |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 36.8952         | 39.11          | -17.70        | 21.41          | 41.29          | -19.88      | QP       |
| 2   | 83.5220         | 34.99          | -19.53        | 15.46          | 38.48          | -23.02      | QP       |
| 3   | 117.3602        | 33.35          | -19.71        | 13.64          | 37.31          | -23.67      | QP       |
| 4   | 169.0053        | 36.29          | -19.54        | 16.75          | 36.06          | -19.31      | QP       |
| 5   | 267.5453        | 37.11          | -15.43        | 21.68          | 42.00          | -20.32      | QP       |
| 6   | 638.3686        | 29.68          | -11.05        | 18.63          | 42.00          | -23.37      | QP       |



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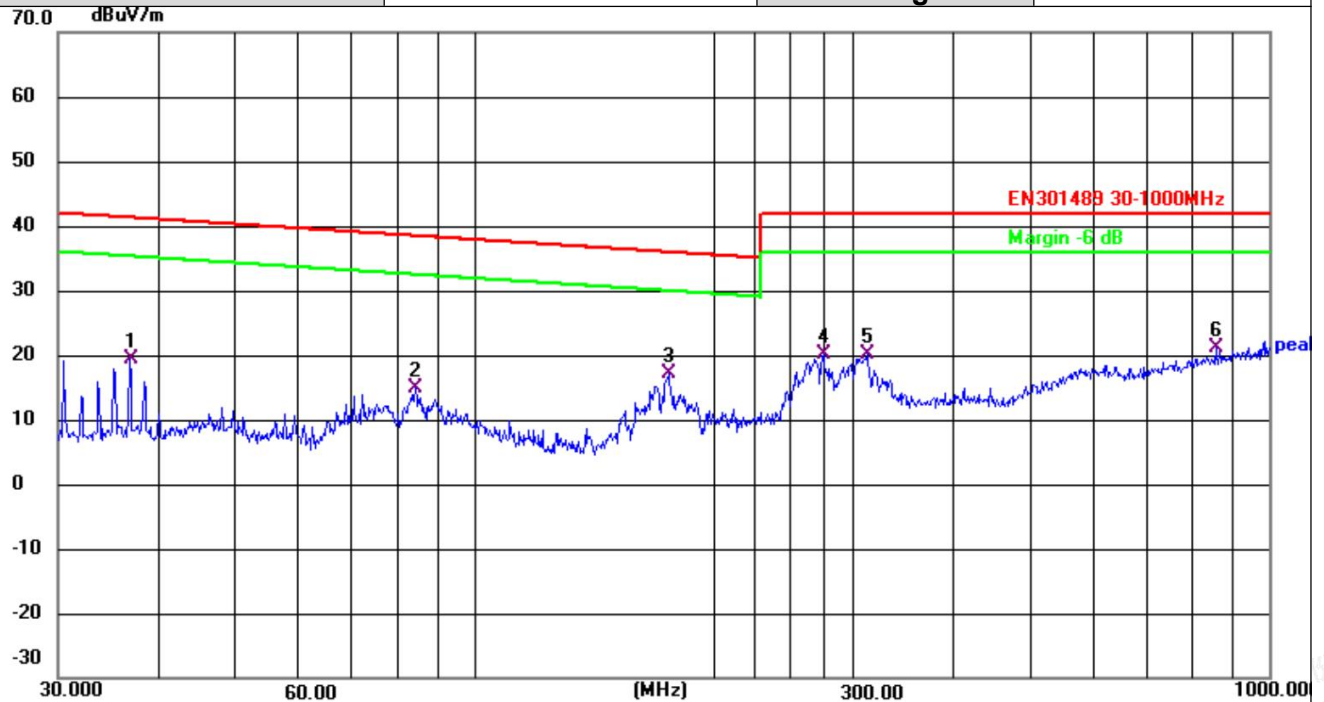
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|                          |                  |                   |              |
|--------------------------|------------------|-------------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode         | TM1          |
| Environmental Conditions | 23.8°C, 52.1% RH | Test Engineer     | Paddi Chen   |
| Pol.                     | Horizontal       | Detector Function | Quasi-peak   |
| Distance                 | 3m               | Test Voltage      | AC 230V/50Hz |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 36.8953         | 37.05          | -17.69        | 19.36          | 41.29          | -21.93      | QP       |
| 2   | 84.4054         | 34.29          | -19.44        | 14.85          | 38.45          | -23.60      | QP       |
| 3   | 175.6516        | 36.25          | -19.05        | 17.20          | 35.93          | -18.73      | QP       |
| 4   | 275.1570        | 35.55          | -15.36        | 20.19          | 42.00          | -21.81      | QP       |
| 5   | 312.1794        | 35.01          | -14.92        | 20.09          | 42.00          | -21.91      | QP       |
| 6   | 857.0246        | 30.05          | -8.90         | 21.15          | 42.00          | -20.85      | QP       |

Note: Margin= Reading Level + Correct Factor – Limit

Correct Factor=Antenna Factor+Cable Factor – Pre-Amplifier Factor



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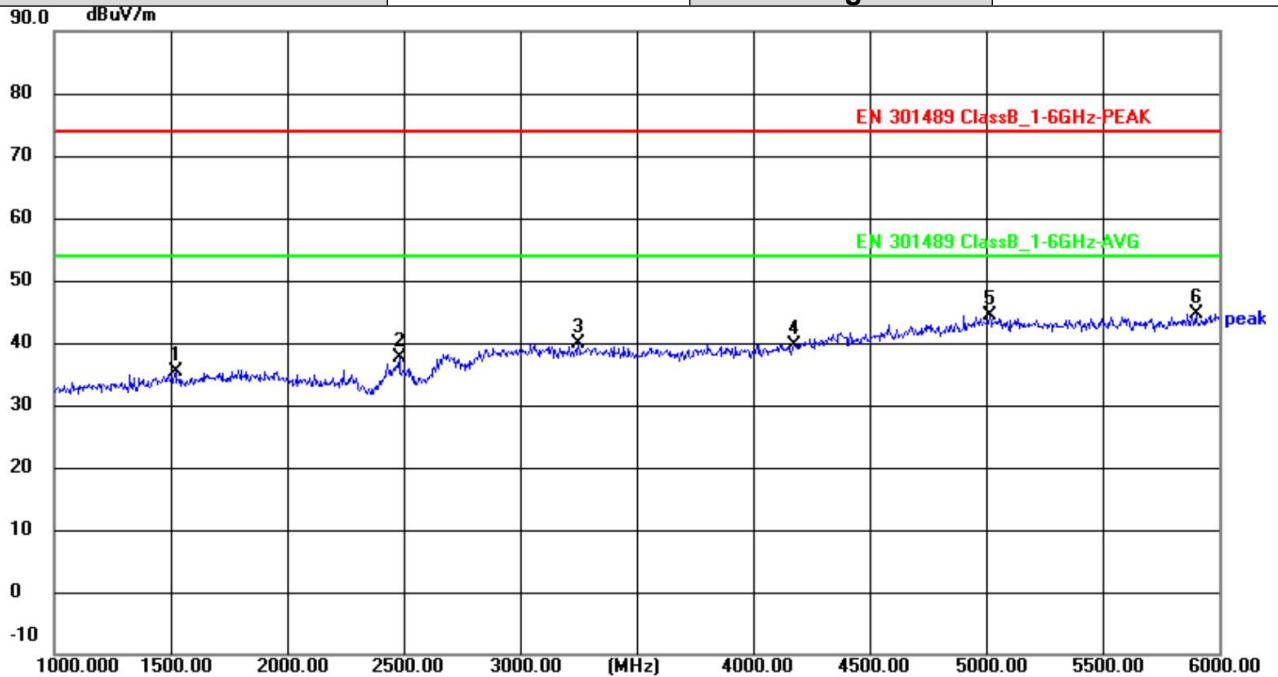
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Adapter1 Model: HJ-0502000W2-EU

|                          |                 |                   |                 |
|--------------------------|-----------------|-------------------|-----------------|
| Test Model               | KINGKONG ES     | Test Mode         | TM1(Above 1GHz) |
| Environmental Conditions | 23.9℃, 52.1% RH | Test Engineer     | Paddi Chen      |
| Pol.                     | Vertical        | Detector Function | Peak + AV       |
| Distance                 | 3m              | Test Voltage      | AC 230V/50Hz    |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 1520.000        | 50.24          | -14.87        | 35.37          | 74.00          | -38.63      | peak     |
| 2   | 2480.000        | 49.10          | -11.42        | 37.68          | 74.00          | -36.32      | peak     |
| 3   | 3250.000        | 49.42          | -9.50         | 39.92          | 74.00          | -34.08      | peak     |
| 4   | 4175.000        | 47.54          | -7.86         | 39.68          | 74.00          | -34.32      | peak     |
| 5   | 5015.000        | 48.52          | -4.09         | 44.43          | 74.00          | -29.57      | peak     |
| 6   | 5900.000        | 48.21          | -3.59         | 44.62          | 74.00          | -29.38      | peak     |



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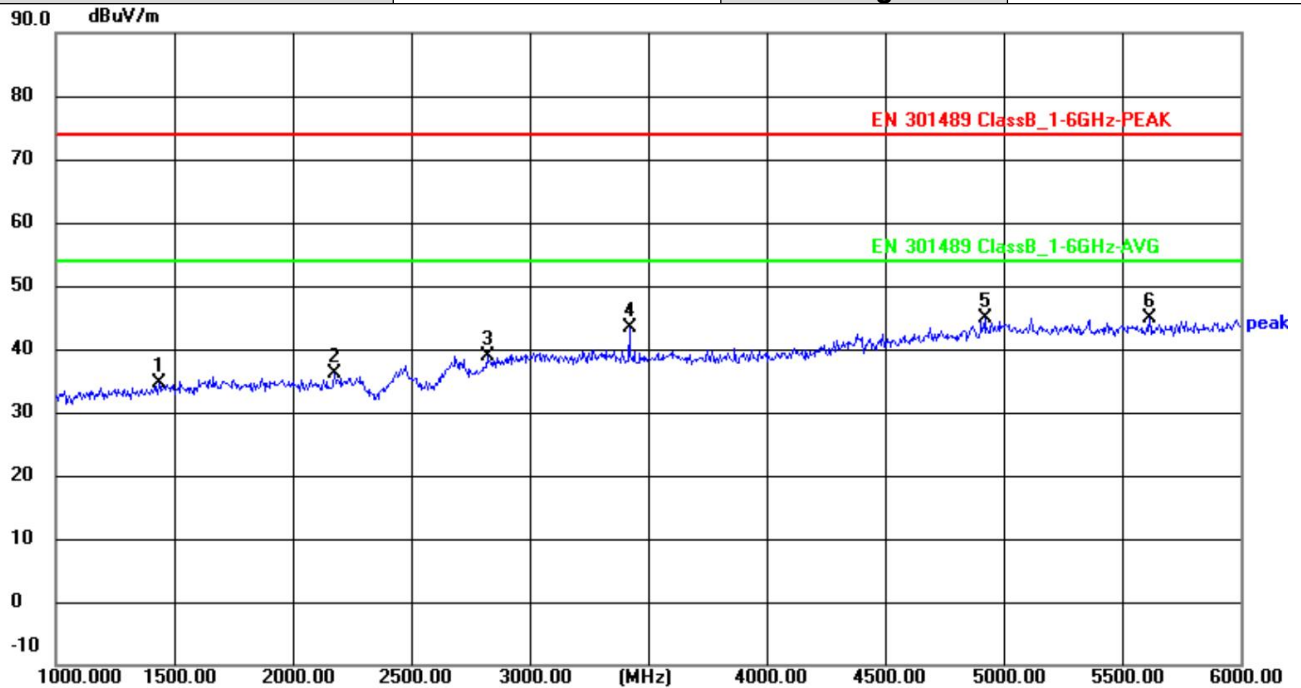
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|                          |                  |                   |                 |
|--------------------------|------------------|-------------------|-----------------|
| Test Model               | KINGKONG ES      | Test Mode         | TM1(Above 1GHz) |
| Environmental Conditions | 23.9°C, 52.1% RH | Test Engineer     | Paddi Chen      |
| Pol.                     | Horizontal       | Detector Function | Peak + AV       |
| Distance                 | 3m               | Test Voltage      | AC 230V/50Hz    |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 1435.000        | 49.69          | -15.14        | 34.55          | 74.00          | -39.45      | peak     |
| 2   | 2175.000        | 48.60          | -12.49        | 36.11          | 74.00          | -37.89      | peak     |
| 3   | 2820.000        | 49.13          | -10.22        | 38.91          | 74.00          | -35.09      | peak     |
| 4   | 3420.000        | 52.71          | -9.44         | 43.27          | 74.00          | -30.73      | peak     |
| 5   | 4920.000        | 49.40          | -4.51         | 44.89          | 74.00          | -29.11      | peak     |
| 6   | 5615.000        | 48.24          | -3.32         | 44.92          | 74.00          | -29.08      | peak     |

Note:

- Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- Measurements above show only up to 6 maximum emissions noted.
- Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Factor = Antenna Factor + Cable Loss + Amplifier Factor  
Emission Level = Reading level + Factor  
Margin = Emission Level - Limit



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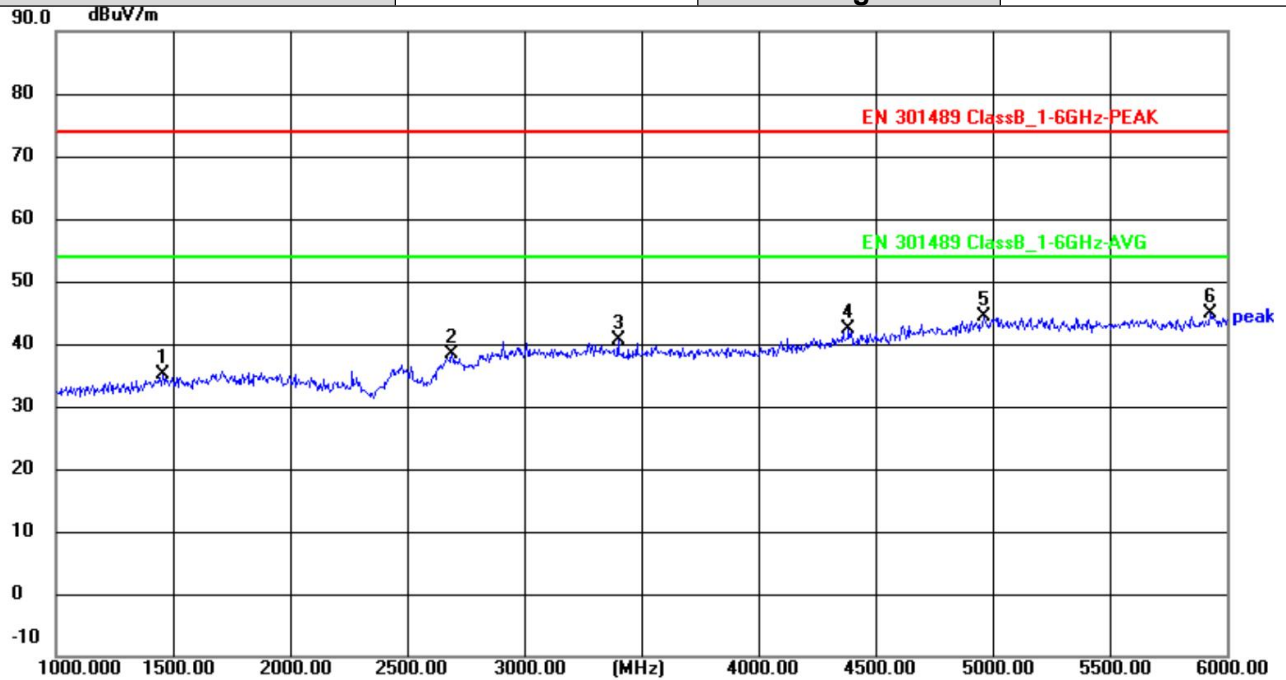
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Adapter2 Model: QZ-01001EA00

|                          |                 |                   |                 |
|--------------------------|-----------------|-------------------|-----------------|
| Test Model               | KINGKONG ES     | Test Mode         | TM1(Above 1GHz) |
| Environmental Conditions | 23.9℃, 52.1% RH | Test Engineer     | Paddi Chen      |
| Pol.                     | Vertical        | Detector Function | Peak + AV       |
| Distance                 | 3m              | Test Voltage      | AC 230V/50Hz    |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 1455.000        | 50.12          | -15.08        | 35.04          | 74.00          | -38.96      | peak     |
| 2   | 2690.000        | 49.06          | -10.68        | 38.38          | 74.00          | -35.62      | peak     |
| 3   | 3400.000        | 49.98          | -9.45         | 40.53          | 74.00          | -33.47      | peak     |
| 4   | 4385.000        | 49.40          | -7.03         | 42.37          | 74.00          | -31.63      | peak     |
| 5   | 4960.000        | 48.82          | -4.32         | 44.50          | 74.00          | -29.50      | peak     |
| 6   | 5930.000        | 48.62          | -3.62         | 45.00          | 74.00          | -29.00      | peak     |



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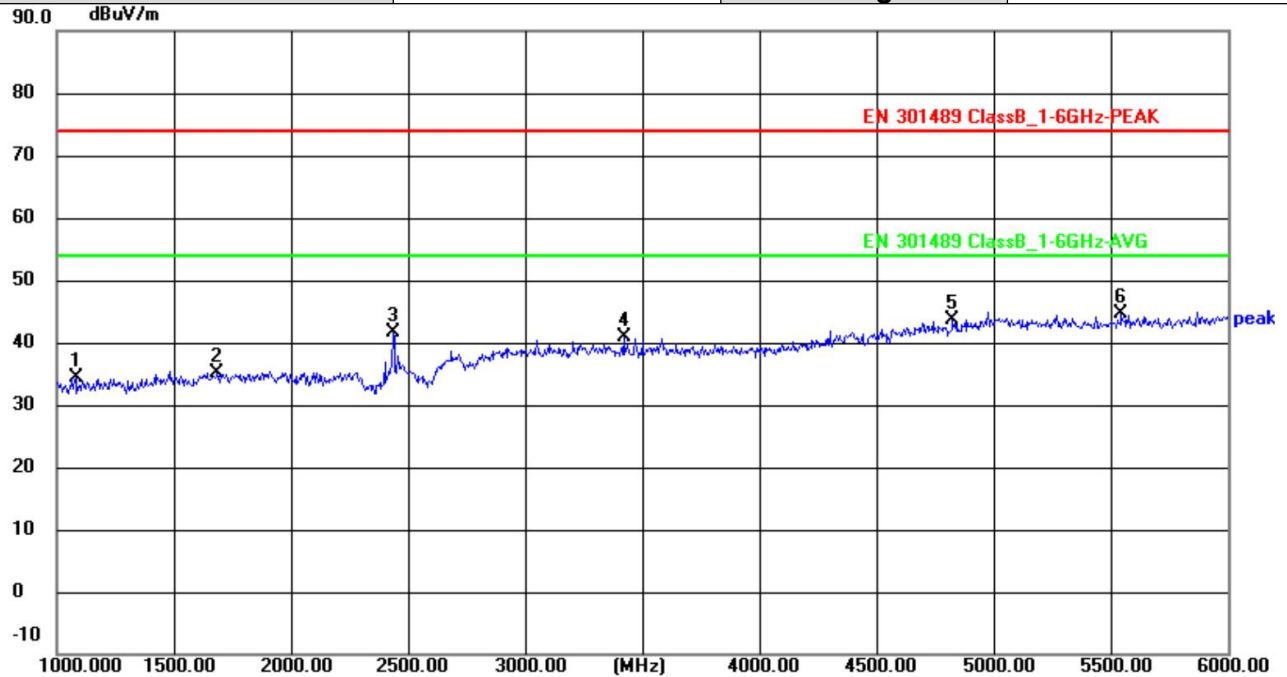
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|                          |                  |                   |                 |
|--------------------------|------------------|-------------------|-----------------|
| Test Model               | KINGKONG ES      | Test Mode         | TM1(Above 1GHz) |
| Environmental Conditions | 23.9°C, 52.1% RH | Test Engineer     | Paddi Chen      |
| Pol.                     | Horizontal       | Detector Function | Peak + AV       |
| Distance                 | 3m               | Test Voltage      | AC 230V/50Hz    |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1   | 1080.000        | 49.69          | -15.36        | 34.33          | 74.00          | -39.67      | peak     |
| 2   | 1685.000        | 49.52          | -14.41        | 35.11          | 74.00          | -38.89      | peak     |
| 3   | 2435.000        | 53.26          | -11.58        | 41.68          | 74.00          | -32.32      | peak     |
| 4   | 3420.000        | 50.38          | -9.44         | 40.94          | 74.00          | -33.06      | peak     |
| 5   | 4825.000        | 48.61          | -4.98         | 43.63          | 74.00          | -30.37      | peak     |
| 6   | 5545.000        | 47.91          | -3.25         | 44.66          | 74.00          | -29.34      | peak     |

Note:

- Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- Measurements above show only up to 6 maximum emissions noted.
- Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Factor = Antenna Factor + Cable Loss + Amplifier Factor  
Emission Level = Reading level + Factor  
Margin = Emission Level - Limit



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## A.4 Harmonic Current Emissions

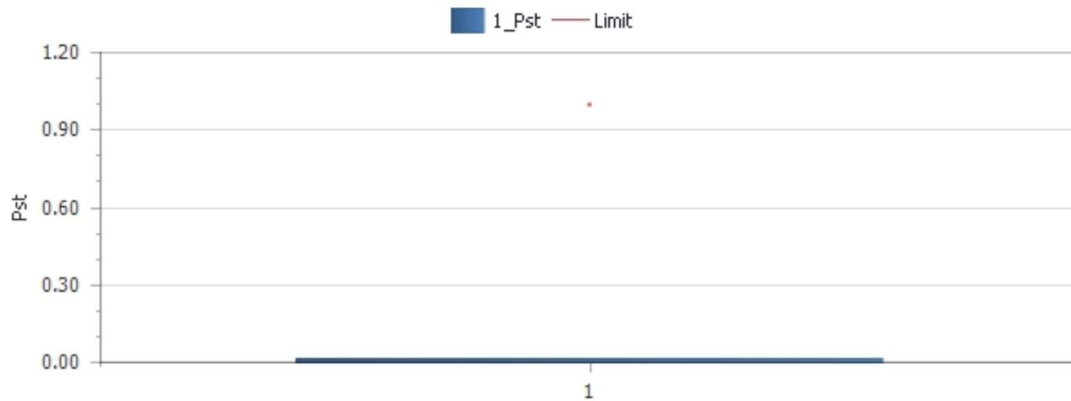
Because power of EUT less than 75W, according to standard EN 61000-3-2, Harmonic current unnecessary to test.

## A.5 Voltage Fluctuation and Flicker

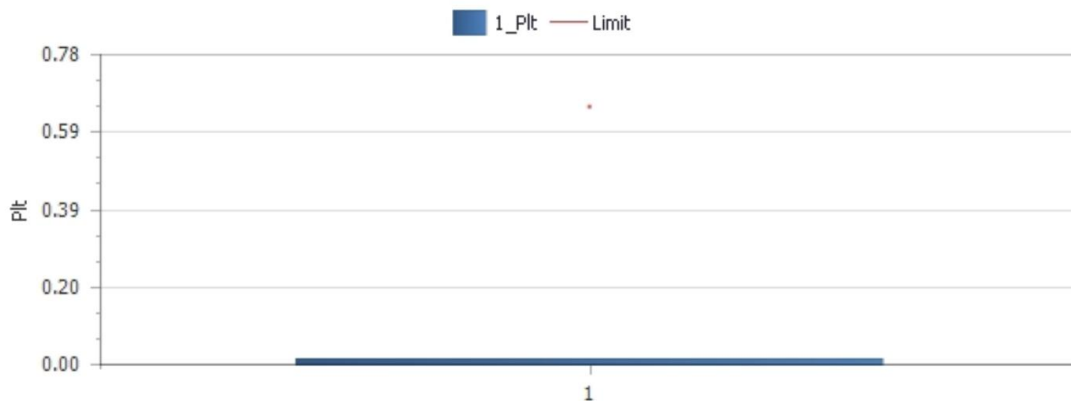
Adapter1 Model: HJ-0502000W2-EU

|                          |                  |              |              |
|--------------------------|------------------|--------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode    | TM1          |
| Test Engineer            | Paddi Chen       | Test Voltage | AC 230V/50Hz |
| Environmental Conditions | 24.5°C, 55.7% RH |              |              |

Pst and Limit



Plt and Limit



Relevant Parameter and Judgement During Test Period

|                            |        |                |       |      |
|----------------------------|--------|----------------|-------|------|
| Vrms at the end of test(V) | 230.05 |                |       |      |
| Error Max(%)               |        | Test Limit(%)  |       |      |
| T-max(ms)                  | 0.00   | Test Limit(ms) | 500   | Pass |
| dc (%)                     | 0.00   | Test Limit(%)  | 3.30  | Pass |
| dmax (%)                   | 0.00   | Test Limit(%)  | 4.00  | Pass |
| Pst                        | 0.015  | Test Limit     | 1.000 | Pass |
| Plt                        | 0.015  | Test Limit     | 0.650 | Pass |



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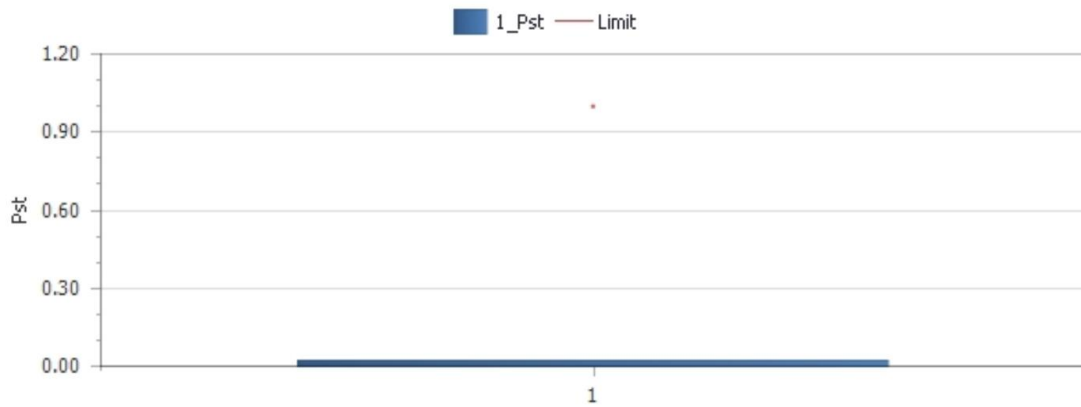
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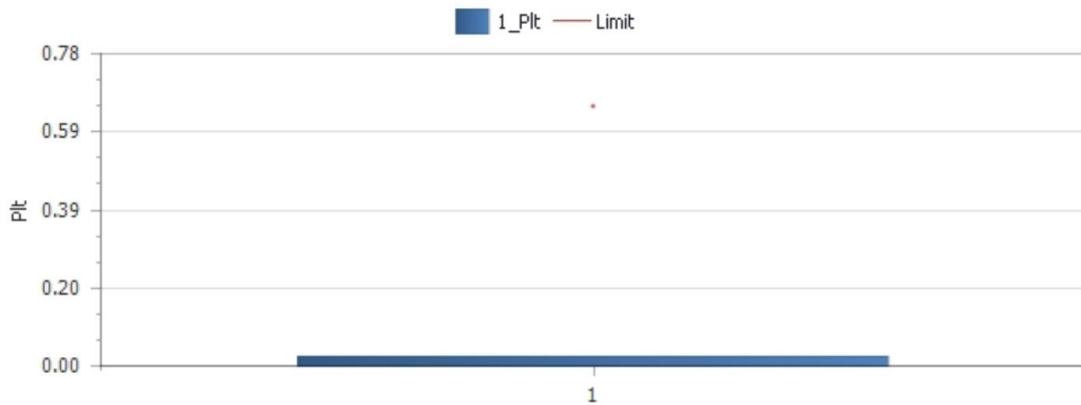
Adapter2 Model: QZ-01001EA00

|                          |                  |              |              |
|--------------------------|------------------|--------------|--------------|
| Test Model               | KINGKONG ES      | Test Mode    | TM1          |
| Test Engineer            | Paddi Chen       | Test Voltage | AC 230V/50Hz |
| Environmental Conditions | 24.5°C, 55.7% RH |              |              |

Pst and Limit



Plt and Limit



## Relevant Parameter and Judgement During Test Period

|                            |        |                |       |      |
|----------------------------|--------|----------------|-------|------|
| Wrms at the end of test(V) | 230.03 |                |       |      |
| Error Max(%)               |        | Test Limit(%)  |       |      |
| T-max(ms)                  | 0.00   | Test Limit(ms) | 500   | Pass |
| dc (%)                     | 0.00   | Test Limit(%)  | 3.30  | Pass |
| dmax (%)                   | 0.00   | Test Limit(%)  | 4.00  | Pass |
| Pst                        | 0.024  | Test Limit     | 1.000 | Pass |
| Plt                        | 0.024  | Test Limit     | 0.650 | Pass |



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**A.6 RF Electromagnetic Field (80 MHz - 6000 MHz)**

|                                 |                  |                      |              |
|---------------------------------|------------------|----------------------|--------------|
| <b>Test Model</b>               | KINGKONG ES      | <b>Test Engineer</b> | Paddi Chen   |
| <b>Environmental Conditions</b> | 23.5°C, 52.4% RH | <b>Test Voltage</b>  | AC 230V/50Hz |

**TM1-TM18 Test Result:**

| EUT Working Mode                               | Antenna Polarity | Frequency (MHz) | Fielded Strength (V/m) | Observation | Position                              | Conclusion |
|--|------------------|-----------------|------------------------|-------------|---------------------------------------|------------|
| GSM/GPRS/EGPRS<br>900 MHz, Traffic             | Vertical         | 80-6000         | 3                      | CT, CR      | Front, Right, Left, Back, Top, Bottom | Pass       |
|  | Horizontal       | 80-6000         | 3                      | CT, CR      | Front, Right, Left, Back, Top, Bottom | Pass       |
| GSM/GPRS/EGPRS<br>900 MHz, Idle                | Vertical         | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
|  | Horizontal       | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
| DCS/GPRS/EGPRS<br>1800 MHz, Traffic            | Vertical         | 80-6000         | 3                      | CT,CR       | Front, Right, Left, Back, Top, Bottom | Pass       |
|  | Horizontal       | 80-6000         | 3                      | CT,CR       | Front, Right, Left, Back, Top, Bottom | Pass       |
| DCS/GPRS/EGPRS<br>1800 MHz, Idle               | Vertical         | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
|  | Horizontal       | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
| WCDMA/HSDPA/HSUPA Band I<br>2100 MHz, Traffic  | Vertical         | 80-6000         | 3                      | CT,CR       | Front, Right, Left, Back, Top, Bottom | Pass       |
|  | Horizontal       | 80-6000         | 3                      | CT,CR       | Front, Right, Left, Back, Top, Bottom | Pass       |
| WCDMA/HSDPA/HSUPA Band I<br>2100MHz, Idle      | Vertical         | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
|  | Horizontal       | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
| WCDMA/HSDPA/HSUPA Band VIII<br>900MHz, Traffic | Vertical         | 80-6000         | 3                      | CT,CR       | Front, Right, Left, Back, Top, Bottom | Pass       |
|  | Horizontal       | 80-6000         | 3                      | CT,CR       | Front, Right, Left, Back, Top, Bottom | Pass       |
| WCDMA/HSDPA/HSUPA Band VIII<br>900MHz, Idle    | Vertical         | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
|  | Horizontal       | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
| E-UTRA Band 1 Traffic                          | Vertical         | 80-6000         | 3                      | CT, CR      | Front, Right, Left, Back, Top, Bottom | Pass       |
|  | Horizontal       | 80-6000         | 3                      | CT, CR      | Front, Right, Left, Back, Top, Bottom | Pass       |



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|                        |            |         |   |          |                                       |      |
|------------------------|------------|---------|---|----------|---------------------------------------|------|
|                        |            |         |   |          | Left, Back, Top, Bottom               |      |
| E-UTRA Band 1 Idle     | Vertical   | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
| E-UTRA Band 3 Traffic  | Vertical   | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |
| E-UTRA Band 3 Idle     | Vertical   | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
| E-UTRA Band 7 Traffic  | Vertical   | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |
| E-UTRA Band 7 Idle     | Vertical   | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
| E-UTRA Band 8 Traffic  | Vertical   | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |
| E-UTRA Band 8 Idle     | Vertical   | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
| E-UTRA Band 20 Traffic | Vertical   | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |
| E-UTRA Band 20 Idle    | Vertical   | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
| E-UTRA Band 28 Traffic | Vertical   | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |
|                        | Horizontal | 80-6000 | 3 | CT,CR    | Front, Right, Left, Back, Top, Bottom | Pass |



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|                     |            |         |   |          |                                       |      |
|---------------------|------------|---------|---|----------|---------------------------------------|------|
|                     |            |         |   |          | Left, Back, Top, Bottom               |      |
| E-UTRA Band 28 Idle | Vertical   | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |
|                     | Horizontal | 80-6000 | 3 | See Note | Front, Right, Left, Back, Top, Bottom | Pass |

**TM19-TM94 Test Result:**

| EUT Working Mode | Antenna Polarity | Frequency (MHz) | Fielded Strength (V/m) | Observation | Position                              | Conclusion |
|------------------|------------------|-----------------|------------------------|-------------|---------------------------------------|------------|
| Operating Mode   | Vertical         | 80-6000         | 3                      | CT, CR      | Front, Right, Left, Back, Top, Bottom | Pass       |
|                  | Horizontal       | 80-6000         | 3                      | CT, CR      | Front, Right, Left, Back, Top, Bottom | Pass       |

**TM95-TM97 Test Result:**

| EUT Working Mode | Antenna Polarity | Frequency (MHz)   | Fielded Strength (V/m) | Observation | Position                              | Conclusion |
|------------------|------------------|---|------------------------|-------------|---------------------------------------|------------|
| Operating Mode   | Vertical         | 80-6000   | 3                      | CR          | Front, Right, Left, Back, Top, Bottom | Pass       |
|                  | Horizontal       | 80-6000   | 3                      | CR          | Front, Right, Left, Back, Top, Bottom | Pass       |
|                  | Vertical         | 80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test) | 3                      | CR          | Front, Right, Left, Back, Top, Bottom | Pass       |
|                  | Horizontal       | 80MHz;104MHz;136MHz;165MHz;200MHz;260MHz;330MHz;430MHz;560MHz;715MHz ± 1MHz;920MHz ± 1MHz (spot test) | 3                      | CR          | Front, Right, Left, Back, Top, Bottom | Pass       |



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**TM98-TM103 Test Result:**

| EUT Working Mode | Antenna Polarity | Frequency (MHz) | Fielded Strength (V/m) | Observation | Position                              | Conclusion |
|------------------|------------------|-----------------|------------------------|-------------|---------------------------------------|------------|
| Operating Mode   | Vertical         | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
|                  | Horizontal       | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
| Idle             | Vertical         | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |
|                  | Horizontal       | 80-6000         | 3                      | See Note    | Front, Right, Left, Back, Top, Bottom | Pass       |

**Special conditions for EMC immunity tests**

| EUT Operating Mode                 |            | Polarity | Conclusion |
|------------------------------------|------------|----------|------------|
| GSM 900                            | Uplink     | H        | Pass       |
|                                    |            | V        | Pass       |
|                                    | Downlink   | H        | Pass       |
|                                    |            | V        | Pass       |
|                                    | RX Quality | H        | Pass       |
|                                    |            | V        | Pass       |
| DCS 1800                           | Uplink     | H        | Pass       |
|                                    |            | V        | Pass       |
|                                    | Downlink   | H        | Pass       |
|                                    |            | V        | Pass       |
|                                    | RX Quality | H        | Pass       |
|                                    |            | V        | Pass       |
| WCDMA HSDPA/HSUPA Band I 2100MHz   | Uplink     | H        | Pass       |
|                                    |            | V        | Pass       |
|                                    | Downlink   | H        | Pass       |
|                                    |            | V        | Pass       |
|                                    | BER        | H        | Pass       |
|                                    |            | V        | Pass       |
| WCDMA HSDPA/HSUPA Band VIII 900MHz | Uplink     | H        | Pass       |
|                                    |            | V        | Pass       |
|                                    | Downlink   | H        | Pass       |
|                                    |            | V        | Pass       |
|                                    | BER        | H        | Pass       |
|                                    |            | V        | Pass       |



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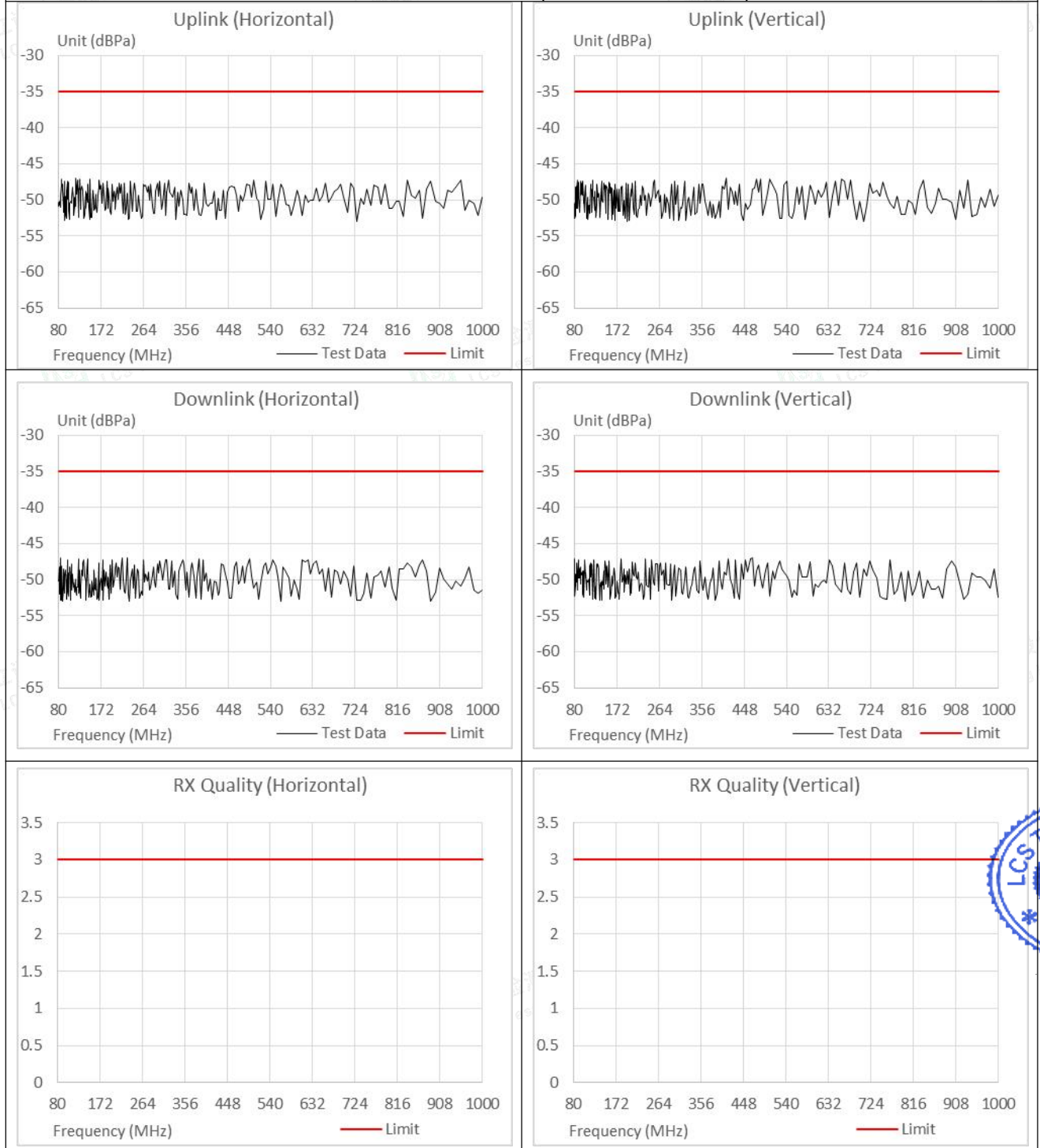
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## Test Plots for GSM 900 (80MHz ~ 1000MHz)



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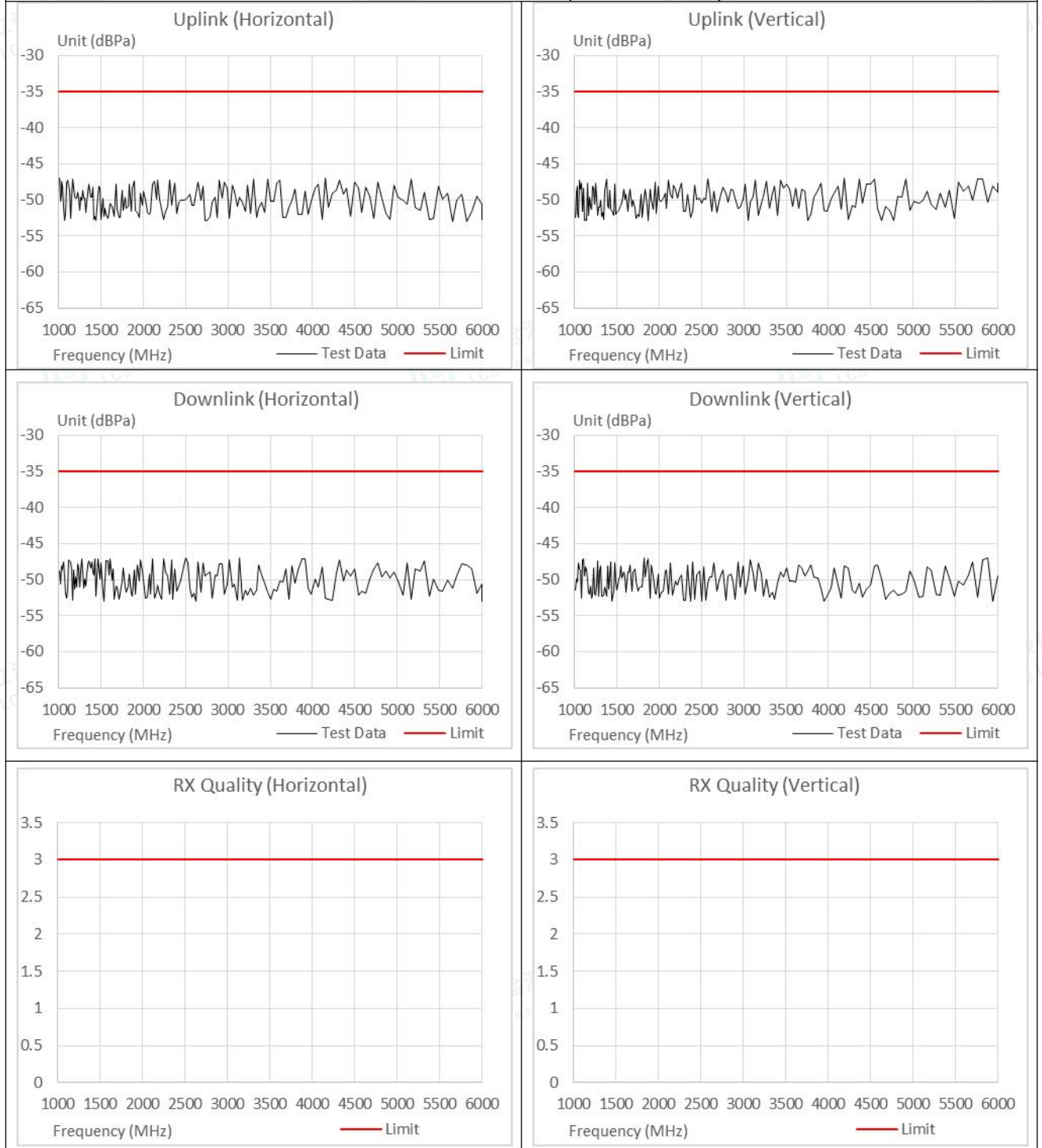
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## Test Plots for GSM 900 (1GHz ~ 6GHz)



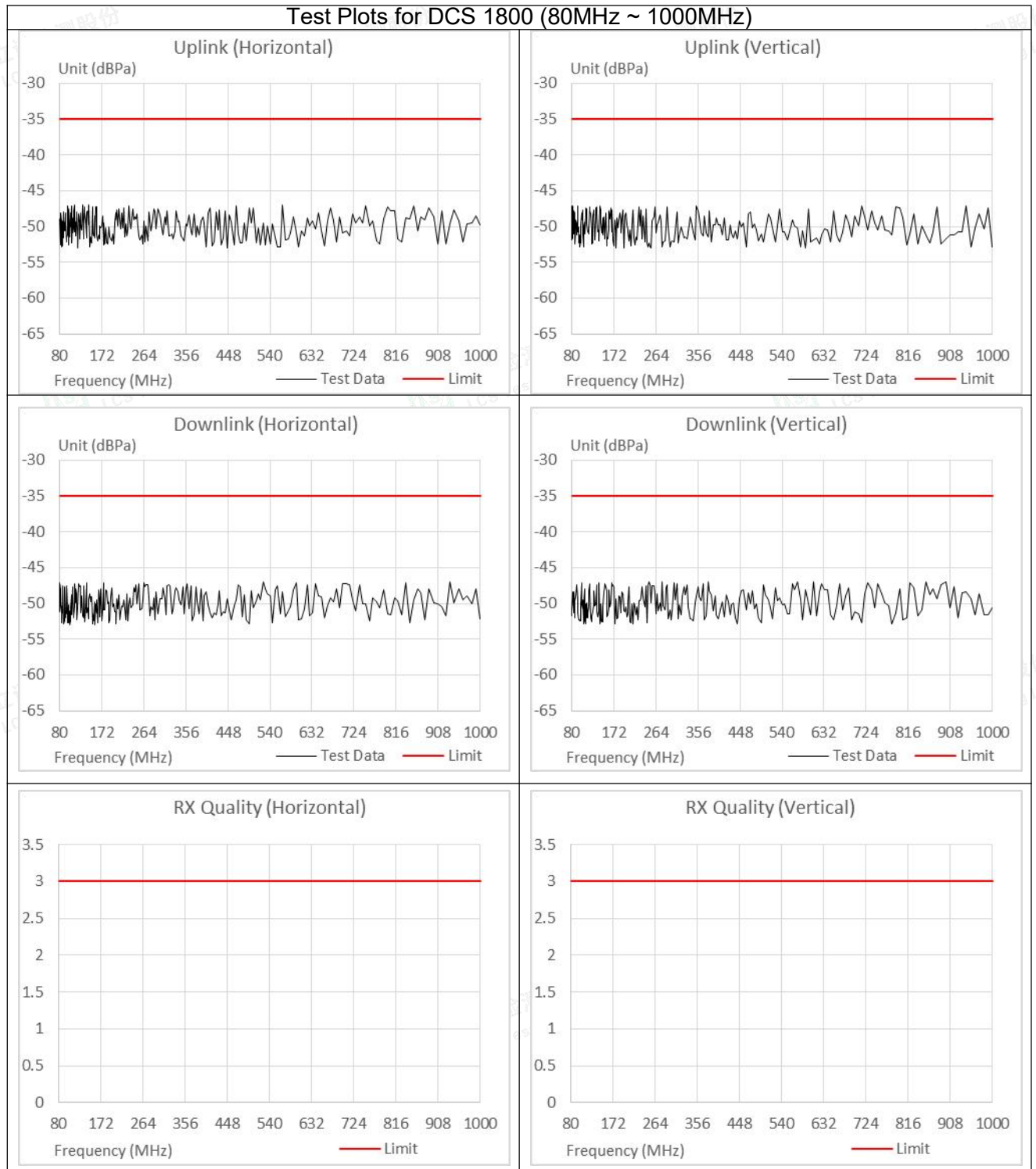
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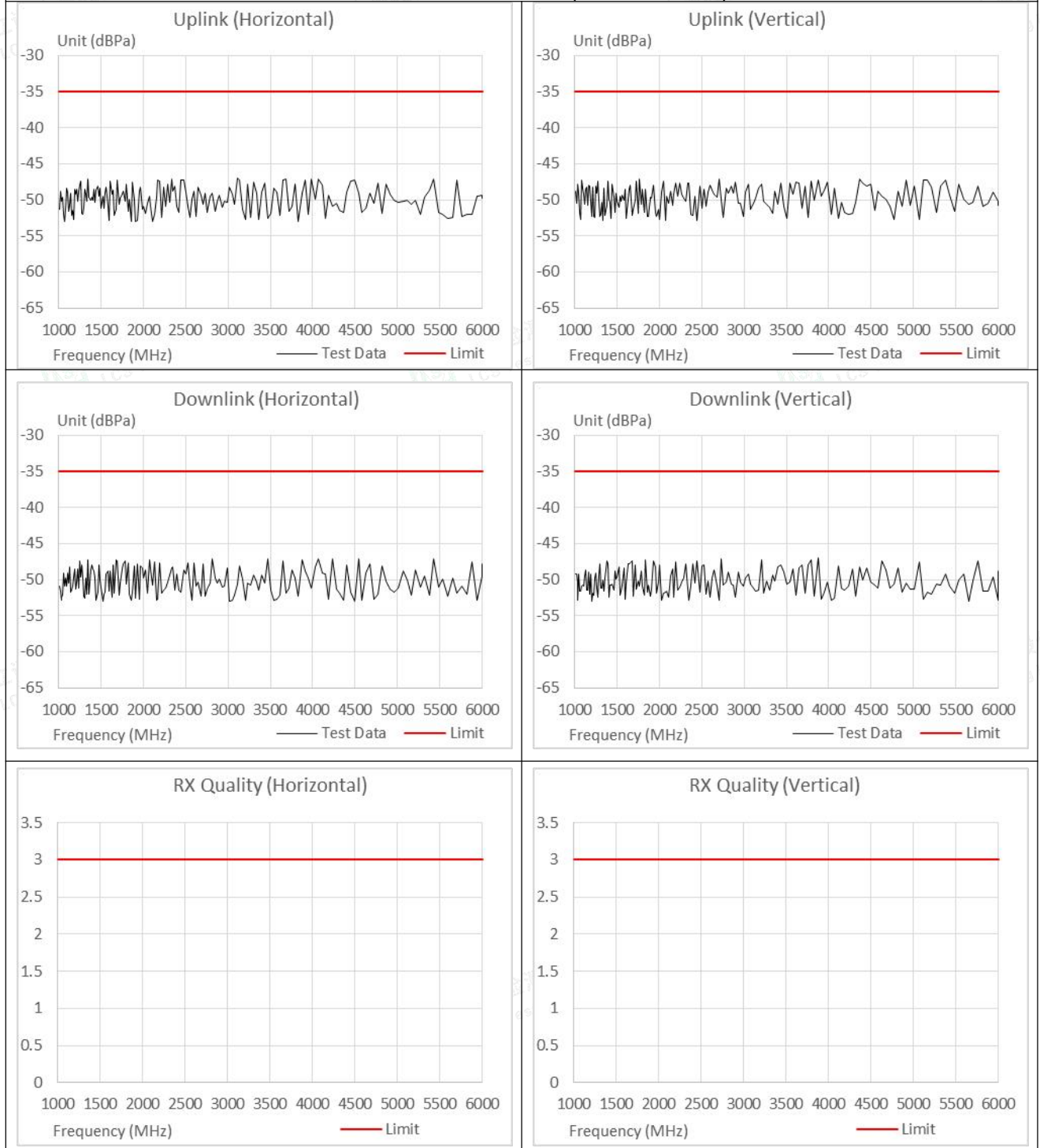
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## Test Plots for DCS 1800 (1GHz ~ 6GHz)

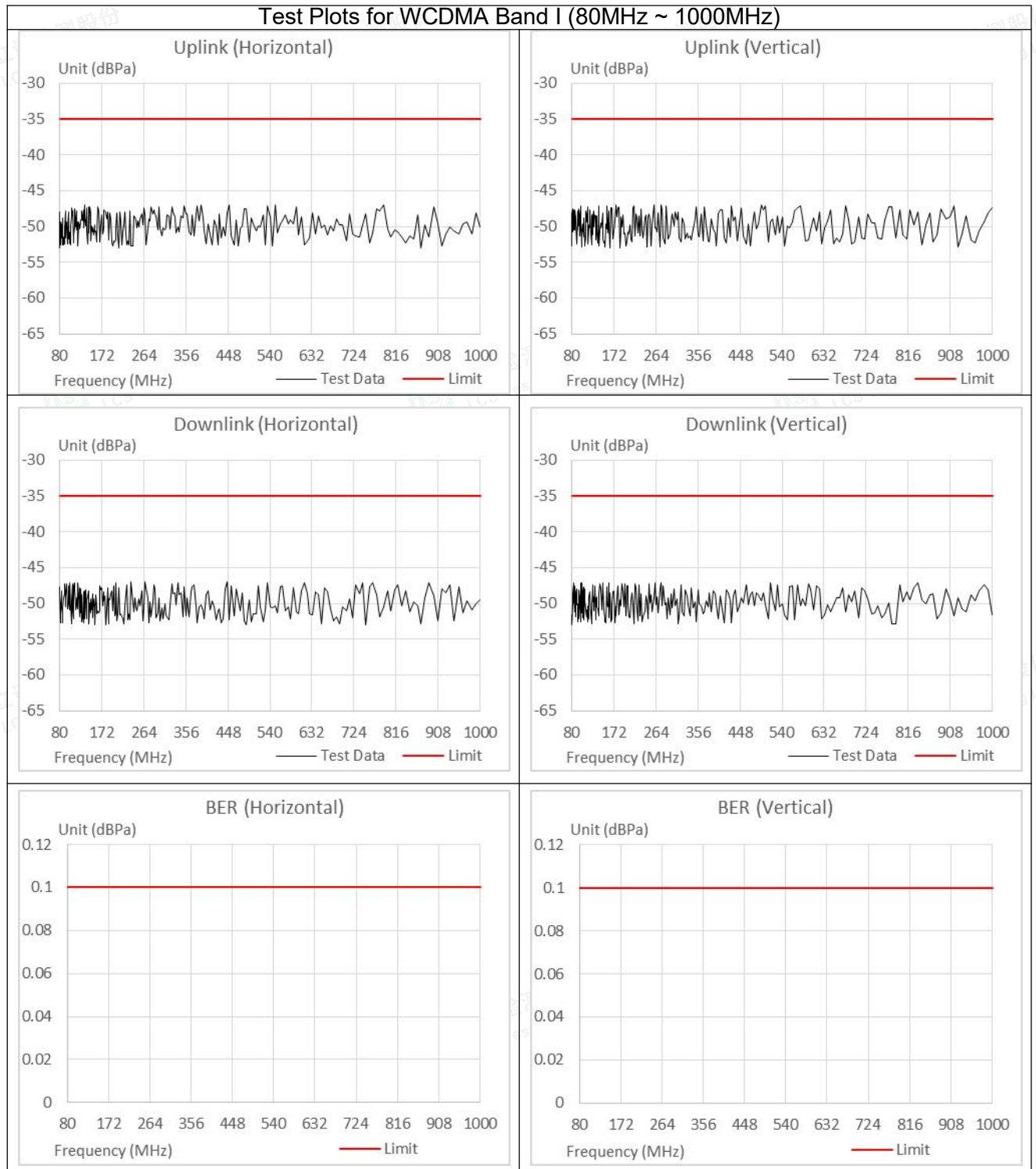


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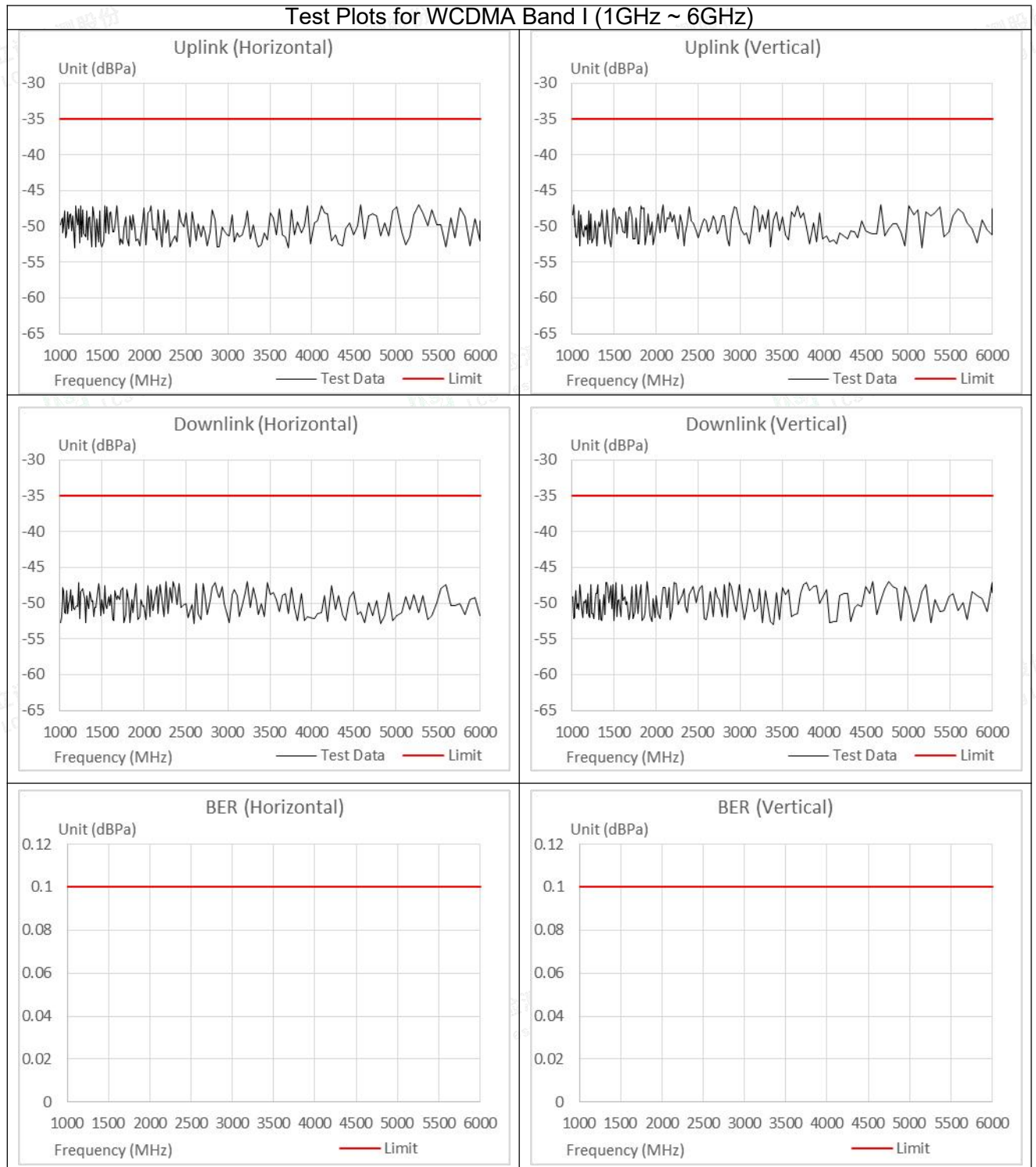


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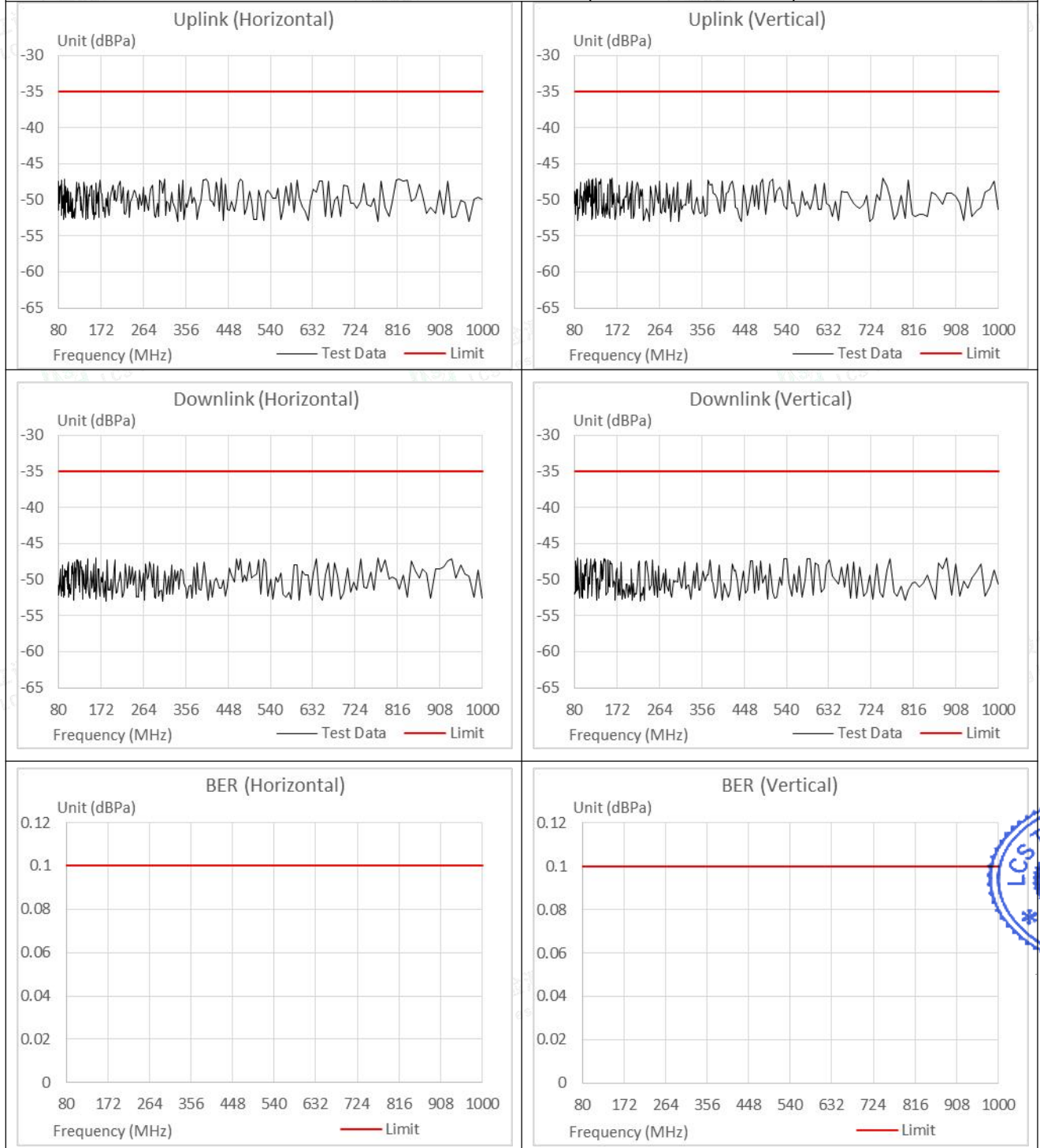
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## Test Plots for WCDMA Band VIII (80MHz ~ 1000MHz)

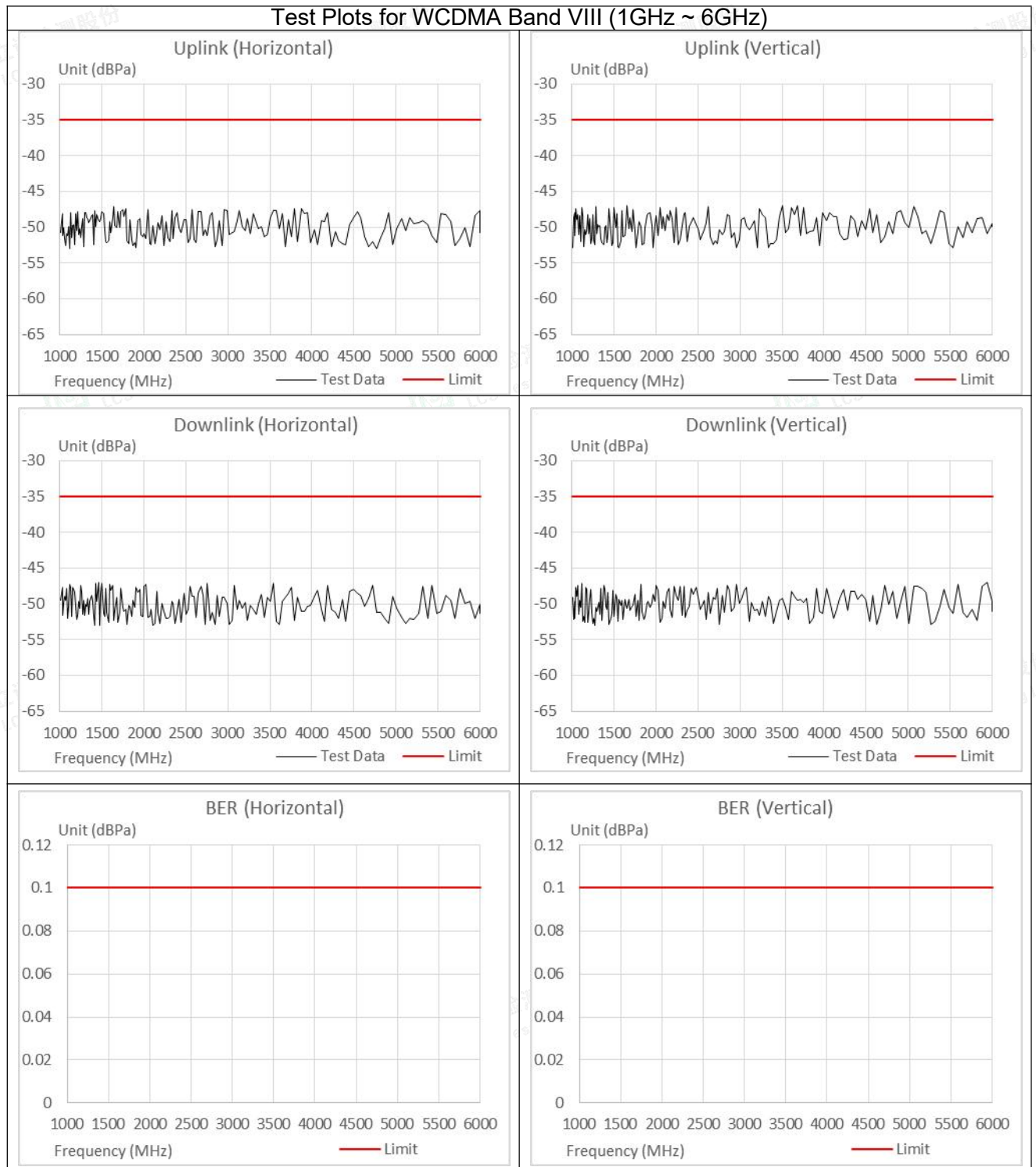


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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

During the test, the Maximum Bit Error Ratio was less than 0.001

During the test, the Maximum Block Error Ratio was less than 0.01

For E-UTRA Band 1/3/7/8/20/28 (In the data transfer mode), the throughput is  $\geq 95\%$  of the maximum throughput of the reference measurement channel as specified in annex C in TS 136 101 [13] with parameters specified in tables 7.3.1-1 and 7.3.1-2 in TS 136 101 [13] during the test sequence.

For equipment that supports a PER or FER, the minimum performance level shall be PER or FER less than or equal to 10%.



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**A.7 Electrostatic Discharge****Electrostatic Discharge Test Results**

|  |   |                    |                    |
|--|---|--------------------|--------------------|
| Standard   | <input type="checkbox"/> IEC 61000-4-2 <input checked="" type="checkbox"/> EN 61000-4-2 |                    |                    |
| Applicant  | Shenzhen Huafurui Technology Co., Ltd.  |                    |                    |
| EUT  | Smartphone  | Temperature        | 22.8℃              |
| M/N  | KINGKONG ES   | Humidity           | 53.4%              |
| Criterion  | B   | Pressure           | 1021mbar           |
| Test Mode  | TM1-TM103   | Test Engineer      | Paddi Chen         |
|  |   |                    |                    |
| TEST RESULT OF TM1-TM94  |   |                    |                    |
| Test Voltage   | Coupling  | Observation        | Result (Pass/Fail) |
| ±2KV, ±4kV   | Contact Discharge   | TT, TR             | Pass               |
| ±2KV, ±4kV, ±8kV   | Air Discharge   | TT, TR             | Pass               |
| ±2KV, ±4kV   | Indirect Discharge HCP  | TT, TR             | Pass               |
| ±2KV, ±4kV   | Indirect Discharge VCP  | TT, TR             | Pass               |
|  |   |                    |                    |
| TEST RESULT OF TM95-TM97   |   |                    |                    |
| Test Voltage   | Coupling  | Observation        | Result (Pass/Fail) |
| ±2KV, ±4kV   | Contact Discharge   | TR                 | Pass               |
| ±2KV, ±4kV, ±8kV   | Air Discharge   | TR                 | Pass               |
| ±2KV, ±4kV   | Indirect Discharge HCP  | TR                 | Pass               |
| ±2KV, ±4kV   | Indirect Discharge VCP  | TR                 | Pass               |
|  |   |                    |                    |
| TEST RESULT OF TM98-TM103  |   |                    |                    |
| Test Voltage   | Coupling  | Result (Pass/Fail) |                    |
| ±2KV, ±4kV   | Contact Discharge   | Pass               |                    |
| ±2KV, ±4kV, ±8kV   | Air Discharge   | Pass               |                    |
| ±2KV, ±4kV   | Indirect Discharge HCP  | Pass               |                    |
| ±2KV, ±4kV   | Indirect Discharge VCP  | Pass               |                    |
| Note: The EUT performance complied with performance criteria for TT&TR to MS Function and there is no any degradation of performance and function. |   |                    |                    |



Shenzhen LCS Compliance Testing Laboratory Ltd.

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## A.8 Electrical Fast Transient Immunity

### Electrical Fast Transient/Burst Test Results

|               |   |             |       |
|---------------|---|-------------|-------|
| Standard      | <input type="checkbox"/> IEC 61000-4-4 <input checked="" type="checkbox"/> EN 61000-4-4 |             |       |
| Applicant     | Shenzhen Huafurui Technology Co., Ltd.  |             |       |
| EUT           | Smartphone  | Temperature | 22.4℃ |
| M/N           | KINGKONG ES   | Humidity    | 52.3% |
| Test Mode     | TM1-TM103   | Criterion   | B     |
| Test Engineer | Paddi Chen  |             |       |

#### TEST RESULT OF TM1-TM94

| Line | Test Voltage | Polarity | Observation | Result (Pass/Fail) |
|------|--------------|----------|-------------|--------------------|
| L    | 1KV          | +/-      | TT, TR      | Pass               |
| N    | 1KV          | +/-      | TT, TR      | Pass               |
| L-N  | 1KV          | +/-      | TT, TR      | Pass               |

#### TEST RESULT OF TM95-TM97

| Line | Test Voltage | Polarity | Observation | Result (Pass/Fail) |
|------|--------------|----------|-------------|--------------------|
| L    | 1KV          | +/-      | TR          | Pass               |
| N    | 1KV          | +/-      | TR          | Pass               |
| L-N  | 1KV          | +/-      | TR          | Pass               |

#### TEST RESULT OF TM98-TM103

| Line | Test Voltage | Polarity | Result (Pass/Fail) |
|------|--------------|----------|--------------------|
| L    | 1KV          | +/-      | Pass               |
| N    | 1KV          | +/-      | Pass               |
| L-N  | 1KV          | +/-      | Pass               |



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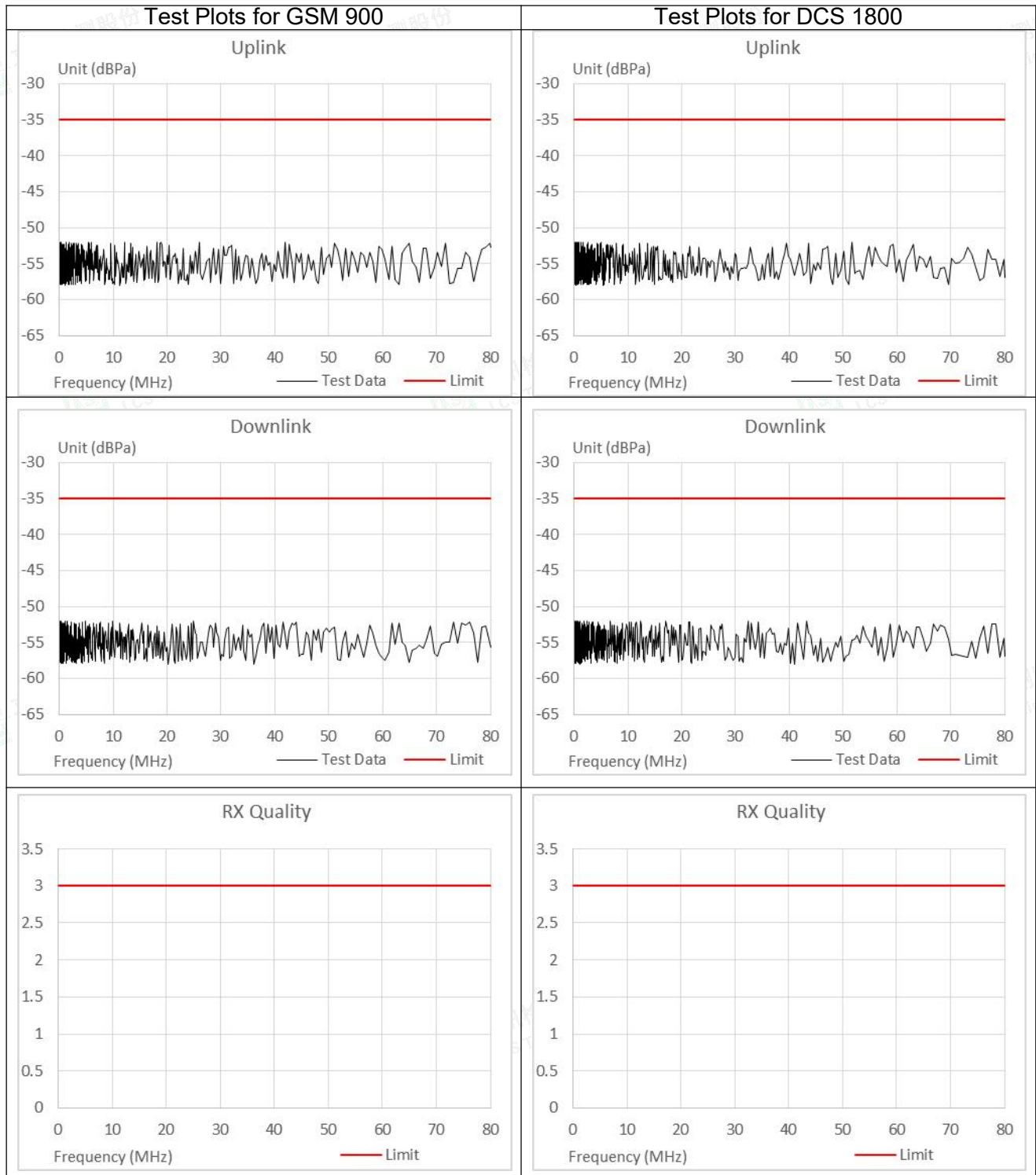


**A.9 RF Common Mode**

| Injected Currents Susceptibility Test Results |   |             |        |
|---|---|-------------|--------|
| Standard                                      | <input type="checkbox"/> IEC 61000-4-6 <input checked="" type="checkbox"/> EN 61000-4-6 |             |        |
| Applicant                                     | Shenzhen Huafului Technology Co., Ltd.  |             |        |
| EUT   | Smartphone  | Temperature | 24.8°C |
| M/N   | KINGKONG ES   | Humidity    | 53.9%  |
| Test Mode                                     | TM1-TM103   | Criterion   | A      |
| Test Engineer                                 | Paddi Chen  |             |        |

| TEST RESULT OF TM1-TM94          |                        |                   |                    |                    |
|----------------------------------|------------------------|-------------------|--------------------|--------------------|
| Frequency Range (MHz)            | Strength (Unmodulated) | Injected Position | Observation        | Result (Pass/Fail) |
| 0.15 ~ 80                        | 3V                     | AC Mains          | CT, CR             | Pass               |
|                                  |                        |                   |                    |                    |
|                                  |                        |                   |                    |                    |
| TEST RESULT OF TM95-TM97         |                        |                   |                    |                    |
| Frequency Range (MHz)            | Strength (Unmodulated) | Injected Position | Observation        | Result (Pass/Fail) |
| 0.15 ~ 80                        | 3V                     | AC Mains          | CR                 | Pass               |
|                                  |                        |                   |                    |                    |
| TEST RESULT OF TM98-TM103        |                        |                   |                    |                    |
| Frequency Range (MHz)            | Strength (Unmodulated) | Injected Position | Result (Pass/Fail) |                    |
| 0.15 ~ 80                        | 3V                     | AC Mains          | Pass               |                    |
| Remark:                          |                        |                   |                    |                    |
| 1. Modulation Signal:1kHz 80% AM |                        |                   |                    |                    |



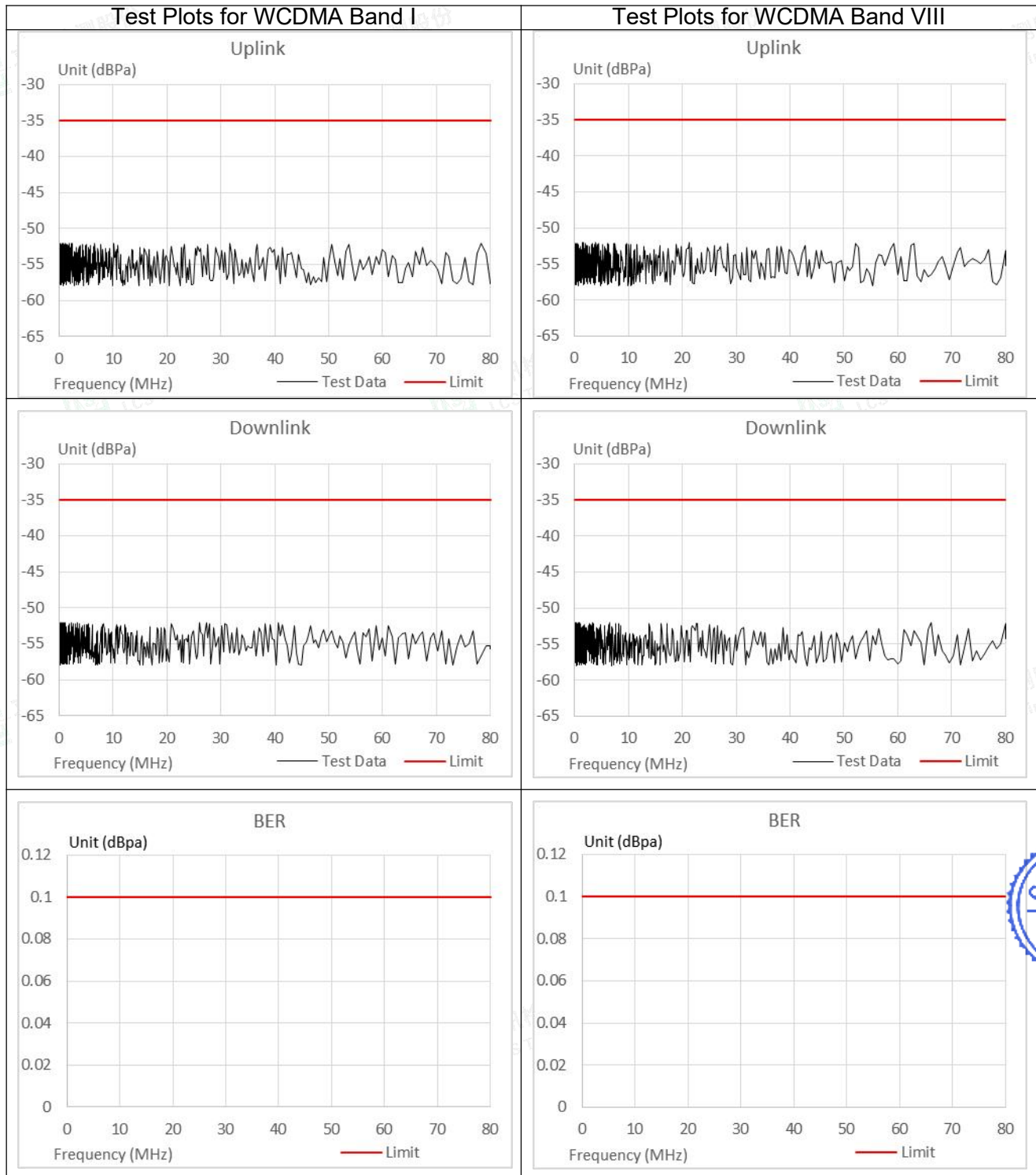


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Note: The EUT performance complied with performance criteria for CT&CR to MS Function and there is no any degradation of performance and function.

During the test, the Maximum Bit Error Ratio was less than 0.001

During the test, the Maximum Block Error Ratio was less than 0.01

For E-UTRA Band 1/3/7/8/20/28(In the data transfer mode), the throughput is  $\geq 95\%$  of the maximum throughput of the reference measurement channel as specified in annex C in TS 136 101 [13] with parameters specified in tables 7.3.1-1 and 7.3.1-2 in TS 136 101 [13] during the test sequence.

For equipment that supports a PER or FER, the minimum performance level shall be PER or FER less than or equal to 10%.



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**A.10 Surges, Line to Line and Line to Ground**

| Surge Immunity Test Result |   |             |       |
|----------------------------|---|-------------|-------|
| Standard                   | <input type="checkbox"/> IEC 61000-4-5 <input checked="" type="checkbox"/> EN 61000-4-5 |             |       |
| Applicant                  | Shenzhen Huafului Technology Co., Ltd.  |             |       |
| EUT                        | Smartphone  | Temperature | 24.6℃ |
| M/N                        | KINGKONG ES   | Humidity    | 52.5% |
| Test Mode                  | TM1-TM103   | Criterion   | B     |
| Test Engineer              | Paddi Chen  |             |       |

| TEST RESULT OF TM1-TM94  |          |                     |                 |                    |                    |                    |
|--|----------|---------------------|-----------------|--------------------|--------------------|--------------------|
| Location   | Polarity | Phase Angle         | Number of Pulse | Pulse Voltage (KV) | Observation        | Result (Pass/Fail) |
| L-N  | +        | 0°, 90°, 180°, 270° | 5               | 1.0                | TT, TR             | Pass               |
|  | -        | 0°, 90°, 180°, 270° | 5               | 1.0                | TT, TR             | Pass               |
|  |          |                     |                 |                    |                    |                    |
|  |          |                     |                 |                    |                    |                    |
|  |          |                     |                 |                    |                    |                    |
| TEST RESULT OF TM95-TM97   |          |                     |                 |                    |                    |                    |
| Location   | Polarity | Phase Angle         | Number of Pulse | Pulse Voltage (KV) | Observation        | Result (Pass/Fail) |
| L-N  | +        | 0°, 90°, 180°, 270° | 5               | 1.0                | TR                 | Pass               |
|  | -        | 0°, 90°, 180°, 270° | 5               | 1.0                | TR                 | Pass               |
|  |          |                     |                 |                    |                    |                    |
|  |          |                     |                 |                    |                    |                    |
|  |          |                     |                 |                    |                    |                    |
| TEST RESULT OF TM98-TM103  |          |                     |                 |                    |                    |                    |
| Location   | Polarity | Phase Angle         | Number of Pulse | Pulse Voltage (KV) | Result (Pass/Fail) |                    |
| L-N  | +        | 0°, 90°, 180°, 270° | 5               | 1.0                | Pass               |                    |
|  | -        | 0°, 90°, 180°, 270° | 5               | 1.0                | Pass               |                    |
|  |          |                     |                 |                    |                    |                    |
|  |          |                     |                 |                    |                    |                    |
| Note: Verification shall be performed on the generators and coupling/decoupling network prior to the test. |          |                     |                 |                    |                    |                    |







## A.11 Voltage Dips/Interruptions Immunity Test

| Voltage Dips And Interruptions Test Results |   |             |        |
|---|---|-------------|--------|
| Standard                                    | <input type="checkbox"/> IEC 61000-4-11 <input checked="" type="checkbox"/> EN 61000-4-11 |             |        |
| Applicant                                   | Shenzhen Huafului Technology Co., Ltd.  |             |        |
| EUT   | Smartphone  | Temperature | 23.6°C |
| M/N   | KINGKONG ES   | Humidity    | 54.8%  |
| Test Mode                                   | TM1-TM103   | Criterion   | B&C    |
| Test Engineer                               | Paddi Chen  |             |        |

| TEST RESULT OF TM1-TM94        |  |                          |             |                    |
|--------------------------------|--|--------------------------|-------------|--------------------|
| Test Level<br>% U <sub>T</sub> | Voltage Dips &<br>Short Interruptions % U <sub>T</sub> | Duration<br>(in periods) | Observation | Result (Pass/Fail) |
| 0                              | 100  | 0.5P                     | TT, TR      | Pass               |
| 0                              | 100  | 1P                       | TT, TR      | Pass               |
| 70                             | 30   | 25P                      | TT, TR      | Pass               |
| 0                              | 100  | 250P                     | TT, TR      | Pass               |

| TEST RESULT OF TM95-TM97       |  |                          |             |                    |
|--------------------------------|--|--------------------------|-------------|--------------------|
| Test Level<br>% U <sub>T</sub> | Voltage Dips &<br>Short Interruptions % U <sub>T</sub> | Duration<br>(in periods) | Observation | Result (Pass/Fail) |
| 0                              | 100  | 0.5P                     | TR          | Pass               |
| 0                              | 100  | 1P                       | TR          | Pass               |
| 70                             | 30   | 25P                      | TR          | Pass               |
| 0                              | 100  | 250P                     | TR          | Pass               |

| TEST RESULT OF TM98-TM103      |  |                          |                    |
|--------------------------------|--|--------------------------|--------------------|
| Test Level<br>% U <sub>T</sub> | Voltage Dips &<br>Short Interruptions % U <sub>T</sub> | Duration<br>(in periods) | Result (Pass/Fail) |
| 0                              | 100  | 0.5P                     | Pass               |
| 0                              | 100  | 1P                       | Pass               |
| 70                             | 30   | 25P                      | Pass               |
| 0                              | 100  | 250P                     | Pass               |



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