

## EMI TEST REPORT

### FCC CERTIFICATION

**Applicant:****Franklin Technology Inc.**906 JEI Platz, 186, Gasan digital 1-ro, Geumcheon-gu,  
Seoul, 08502 South Korea**Date of Issue: December 27, 2018****Test Report No. HCT-EM-1812-FC031****Test Site: HCT CO., LTD.****MODEL:****F800HPVL**

Rule Part(s) / Standard(s) : FCC CFR 47 PART 15 Subpart B Class B  
ANSI C63.4-2014

FCC ID : XHG-F800HPVL

EUT Type : VoLTE Home Phone Connect


Manufacturer : Franklin Technology Inc.

Date of Test : December 24, 2018 to December 25, 2018

The device bearing the trade name and model specified above, has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. (See Test Report if any modifications were made for compliance)

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

HCT certifies that no party to application has been denied the FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C 862

**Tested By**

**Kyoung-Hee Yoon**  
Test Engineer  
EMC Team  
Certification Division

**Reviewed By**

**Jin-Pyo Hong**  
Technical Manager  
EMC Team  
Certification Division

This report only responds to the tested sample and may not be reproduced, except in full, without written approval of the HCT Co., Ltd.



## REVISION HISTORY

The revision history for this document is shown in table.

| Test Report No.   | Issue Date        | Description     |
|-------------------|-------------------|-----------------|
| HCT-EM-1812-FC031 | December 27, 2018 | Initial Release |



## TABLE OF CONTENTS

|   | PAGE |
|---|------|
| 1. GENERAL INFORMATION .....                            | 4    |
| 1.1 Description of EUT .....                            | 4    |
| 1.2 Tested System Details .....                         | 4    |
| 1.3 Cable Description .....                             | 4    |
| 1.4 Noise Suppression Parts on Cable. (I/O Cable) ..... | 4    |
| 1.5 Test Facility .....                                 | 5    |
| 1.6 Instrument Calibration .....                        | 5    |
| 1.7. Measurement Uncertainty .....                      | 5    |
| 2 LIST OF TEST EQUIPMENT .....                          | 6    |
| 3. DESCRIPTION OF TEST .....                            | 7    |
| 3.1 Measurement of Conducted Emission .....             | 7    |
| 3.2 Measurement of Radiated Emission .....              | 8    |
| 4. PRELIMINARY TEST .....                               | 10   |
| 4.1 Conducted Emission .....                            | 10   |
| 4.2 Radiated Emission .....                             | 10   |
| 5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY .....   | 11   |
| 5.1 Conducted Emission .....                            | 11   |
| 5.2 Radiated Emission .....                             | 24   |
| 6. CONCLUSION .....                                     | 30   |
| 7. APPENDIX A. TEST SETUP PHOTOGRAPHS .....             | 31   |



## 1. GENERAL INFORMATION

### 1.1 Description of EUT

The EUT is VoLTE Home Phone Connect

|               |  |   |
|---------------|--|---|
| Model         | F800HPVL   |   |
| EUT type      | VoLTE Home Phone Connect   |   |
| FCC ID        | XHG-F800HPVL   |   |
| TX Frequency  | LTE B4: 1710.7 MHz to 1 754.3 MHz<br>LTE B13: 779.5 MHz to 784.5 MHz |   |
| Power voltage | Switching adapter  | AC Input voltage: Minimum: 90 VAC,<br>Nominal: 100 to 240 VAC<br>Maximum: 264 VA<br>DC Output voltage: +5 V |
|               | Battery  | Rated capacity: 2 100 mAh,<br>Rated voltage: 3.8 V  |
| Manufacturer  | Franklin Technology Inc.   |   |

### 1.2 Tested System Details

All equipment descriptions used in the tested system (including inserted cards) are:

| Equipment         | Model No.               | Serial Number | Manufacturer        |
|-------------------|-------------------------|---------------|---------------------|
| EUT               | F800HPVL                | -             | Franklin Technology |
| Switching adapter | DSA-10PFV-05 FUS 050200 | -             | DVE                 |
| Telephone         | SP-F470                 | S2TB200938J   | SAMSUNG             |

### 1.3 Cable Description

| Product Name | Port      | Power Cord Shielded (Y/N) | I/O Cable Shielded (Y/N) | Length (m) |
|--------------|-----------|---------------------------|--------------------------|------------|
| EUT          | Micro USB | N                         | N/A                      | 1.2        |
|              | RJ 11     | N/A                       | N                        | 2.2        |
|              | RJ 11     | N/A                       | N                        | 2.2        |

### 1.4 Noise Suppression Parts on Cable. (I/O Cable)

| Product Name | Port      | Ferrite Bead (Y/N) | Location | Metal Hood (Y/N) | Location |
|--------------|-----------|--------------------|----------|------------------|----------|
| EUT          | Micro USB | N/A                | N/A      | Y                | Both end |
|              | RJ 11     | N/A                | N/A      | Y                | Both end |
|              | RJ 11     | N/A                | N/A      | Y                | Both end |



## 1.5 Test Facility

Test site is located at 74, SEOICHEON-RO, 578BEON-GIL, MAJANG-MYEON, ICHEON-SI, GYEONGGI-DO, SOUTH KOREA. Those measurement facilities are constructed in conformance with the requirements of ANSI C63.4-2014. The Normalized site attenuations (30 MHz to 1GHz) and Site validation (1 GHz to 18 GHz) were performed in accordance with the standard in ANSI C63.4-2014

| Measurement Facilities   | Registration Number |
|--|---------------------|
| Radiated Field strength measurement facility<br>3 m Semi Anechoic chamber  | 90661               |
| Radiated Field strength measurement facility<br>10 m Semi Anechoic chamber |                     |

## 1.6 Instrument Calibration

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturers recommendations for utilizing calibration equipment's, which is traceable to recognized national standards.

Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2006).

## 1.7. Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014.

All measurement uncertainty values are shown with a coverage factor of  $k = 2$  to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Parameter                                 | Expanded Uncertainty (dB) |
|---|---------------------------|
| Conducted Emission (0.15 MHz to 30 MHz)   | 1.82 dB                   |
| 3 m Radiated Emissions (30 MHz to 1 GHz)  | 5.20 dB                   |
| 3 m Radiated Emissions (1 GHz to 18 GHz)  | 5.24 dB                   |
| 3 m Radiated Emissions (18 GHz to 40 GHz) | 5.40 dB                   |



## 2 LIST OF TEST EQUIPMENT

| Type  | Manufacturer    | Model Name        | Serial Number              | Calibration Cycle | CAL Date   |
|---|-----------------|-------------------|----------------------------|-------------------|------------|
| <u>Conducted Emission</u>                                     |                 |                   |                            |                   |            |
| <input checked="" type="checkbox"/> EMI Test Receiver         | Rohde & Schwarz | ESCI              | 100584                     | 1 year            | 06.25.2018 |
| <input type="checkbox"/> EMI Test Receiver                    | Rohde & Schwarz | ESCI              | 100033                     | 1 year            | 06.27.2018 |
| <input checked="" type="checkbox"/> LISN                      | Rohde & Schwarz | ENV216            | 102245                     | 1 year            | 12.12.2018 |
| <input checked="" type="checkbox"/> LISN                      | Rohde & Schwarz | ENV216            | 100073                     | 1 year            | 05.03.2018 |
| <input checked="" type="checkbox"/> Software                  | Rohde & Schwarz | EMC32 VER8.54.0   | -                          | -                 | -          |
| <u>Radiated Emission</u>                                      |                 |                   |                            |                   |            |
| -For measurement below 1 GHz                                  |                 |                   |                            |                   |            |
| <input checked="" type="checkbox"/> EMI Test Receiver         | Rohde & Schwarz | ESU40             | 100524                     | 1 year            | 07.27.2018 |
| <input checked="" type="checkbox"/> Trilog Antenna            | Schwarzbeck     | VULB 9168         | 760                        | 2 year            | 04.06.2017 |
| <input checked="" type="checkbox"/> Antenna Master            | INNCO Systems   | MA4640-XP-ET      | -                          | N/A               | -          |
| <input checked="" type="checkbox"/> Antenna master controller | INNCO Systems   | CO 3000           | CO3000/870/<br>35990515/L  | N/A               | -          |
| <input checked="" type="checkbox"/> Turn Table                | INNCO Systems   | 1060-2M           | -                          | N/A               | -          |
| <input checked="" type="checkbox"/> Turn Table controller     | INNCO Systems   | CO2000            | CO2000/095/<br>5790304/L   | N/A               | -          |
| <input type="checkbox"/> Low Noise Amplifier                  | TESTEK          | TK-PA01S          | 160014-L                   | 1 year            | 01.24.2018 |
| <input type="checkbox"/> EMI Test Receiver                    | Rohde & Schwarz | ESU26             | 100241                     | 1 year            | 08.14.2018 |
| <input type="checkbox"/> Antenna master                       | INNCO Systems   | MA4000-EP         | MA4000/283                 | N/A               | -          |
| <input type="checkbox"/> Turn Table                           | INNCO Systems   | DT3000-3T         | DT3000/69                  | N/A               | -          |
| <input checked="" type="checkbox"/> Software                  | Rohde & Schwarz | EMC32 VER.9.20.00 | -                          | -                 | -          |
| -For measurement above 1 GHz                                  |                 |                   |                            |                   |            |
| <input checked="" type="checkbox"/> EMI Test Receiver         | Rohde & Schwarz | ESU40             | 100524                     | 1 year            | 07.27.2018 |
| <input checked="" type="checkbox"/> Antenna master            | INNCO Systems   | MA4640-XP-ET      | -                          | N/A               | -          |
| <input checked="" type="checkbox"/> Antenna master controller | INNCO Systems   | CO 3000           | CO 3000/870/<br>35990515/L | N/A               | -          |
| <input checked="" type="checkbox"/> Turn Table                | INNCO Systems   | 1060-2M           | -                          | N/A               | -          |
| <input checked="" type="checkbox"/> Turn Table controller     | INNCO Systems   | CO2000            | CO2000/095/<br>5790304/L   | N/A               | -          |
| <input checked="" type="checkbox"/> Horn Antenna              | Schwarzbeck     | BBHA 9120D        | 01836                      | 2 year            | 05.14.2018 |
| <input checked="" type="checkbox"/> Low Noise Amplifier       | TESTEK          | TK-PA18H          | 170034-L                   | 1 year            | 03.06.2018 |
| <input type="checkbox"/> Power Amplifier                      | TESTEK          | TK-PA1840H        | 170030-L                   | 1 year            | 12.17.2018 |
| <input type="checkbox"/> Antenna master                       | HD GmbH         | MA240             | 240/520                    | N/A               | -          |
| <input type="checkbox"/> EMI Test Receiver                    | Rohde & Schwarz | ESU26             | 100241                     | 1 year            | 08.14.2018 |
| <input type="checkbox"/> Turn Table                           | INNCO Systems   | DT3000-3T         | DT3000/69                  | N/A               | -          |
| <input checked="" type="checkbox"/> Software                  | Rohde & Schwarz | EMC32 VER8.40.0   | -                          | -                 | -          |



### 3. DESCRIPTION OF TEST

#### 3.1 Measurement of Conducted Emission

The test procedure was in accordance with ANSI C63.4-2014

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN).  
If the EUT is connected to the PC through USB, the AC power-line adapter of the PC is directly connected to a line impedance stabilization network (LISN).  
Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both conducted lines are measured in Quasi-Peak and Average mode, including the worst-case data points for each tested configuration.
- c. The frequency range from 150 kHz to 30 MHz was searched.

#### [ Conducted Emission Limit ]

| Frequency<br>(MHz) | Resolution<br>Bandwidth<br>(kHz) | Class A              |                   | Class B              |                   |
|--------------------|----------------------------------|----------------------|-------------------|----------------------|-------------------|
|                    |                                  | Quasi-Peak<br>(dBμV) | Average<br>(dBμV) | Quasi-Peak<br>(dBμV) | Average<br>(dBμV) |
| 0.15 to 0.5        | 9                                | 79                   | 66                | 66 to 56*            | 56 to 46*         |
| 0.5 to 5           | 9                                | 73                   | 60                | 56                   | 46                |
| 5 to 30            | 9                                | 73                   | 60                | 60                   | 50                |

*\*Decreases with the logarithm of the frequency.*



### 3.2 Measurement of Radiated Emission

The test procedure was in accordance with ANSI C63.4-2014

- The EUT was placed on the top of a turn table 0.8 meters above the ground at a semi anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 m away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 m to 4 m and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- The test-receiver system was set to Peak and Average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.(1 GHz to 40 GHz)

#### [ Radiated Emission Limits ]

| Frequency<br>(MHz) | Class A                    |  |                                     | Class B                       |  |                                     |
|--------------------|----------------------------|--|-------------------------------------|-------------------------------|--|-------------------------------------|
|                    | Antenna<br>Distance<br>(m) | Field<br>Strength<br>( $\mu\text{V/m}$ ) | Quasi-Peak<br>(dB $\mu\text{V/m}$ ) | Antenna<br>Distance<br>(m)    | Field<br>Strength<br>( $\mu\text{V/m}$ ) | Quasi-Peak<br>(dB $\mu\text{V/m}$ ) |
| 30 to 88           | 10                         | 90                                       | 39.0                                | 3                             | 100                                      | 40.0                                |
| 88 to 216          | 10                         | 150                                      | 43.5                                | 3                             | 150                                      | 43.5                                |
| 216 to 960         | 10                         | 210                                      | 46.4                                | 3                             | 200                                      | 46.0                                |
| Above 960          | 10                         | 300                                      | 49.5                                | 3                             | 500                                      | 54.0                                |
| Frequency<br>(MHz) | Antenna Distance<br>(m)    | Class A                                  |                                     | Class B                       |  |                                     |
|                    |                            | Peak<br>(dB $\mu\text{V/m}$ )            | Average<br>(dB $\mu\text{V/m}$ )    | Peak<br>(dB $\mu\text{V/m}$ ) | Average<br>(dB $\mu\text{V/m}$ )         |                                     |
| Above 1 000        | 3                          | 80                                       | 60                                  | 74                            | 54                                       |                                     |



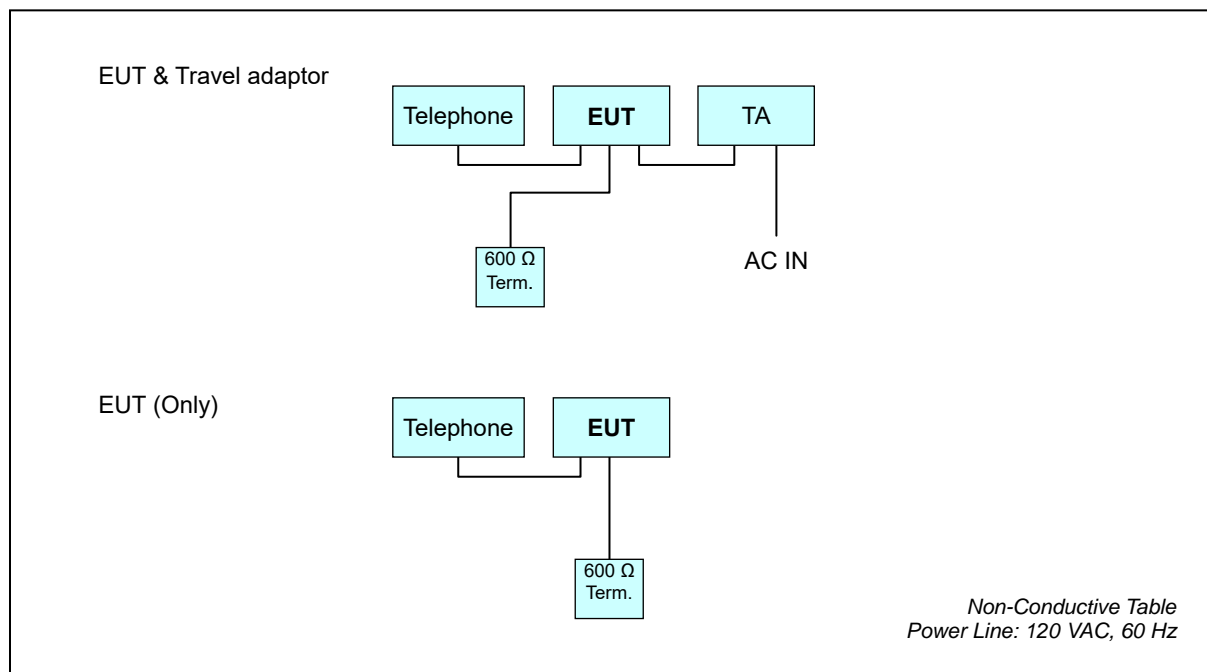


### 3.2.1 Frequency Range of Radiated Measurements

An unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a Radiated Emission limit is specified, up to the frequency shown in the following table

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz)                                      |
|--|---|
| Below 1.705  | 30  |
| 1.705 to 108   | 1 000   |
| 108 to 500   | 2 000   |
| 500 to 1 000   | 5 000   |
| Above 1 000  | 5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower |

### 3.3 Configuration of Tested System





## 4. PRELIMINARY TEST

### 4.1 Conducted Emission

During preliminary tests, the following operating mode was investigated:

**Operation Mode:** Charging & LTE B4 RX Receive mode  
Charging & LTE B13 RX Receive mode

### 4.2 Radiated Emission

During preliminary tests, the following operating mode was investigated:

**Operation Mode:** Charging & LTE B4 RX Receive mode  
Charging & LTE B13 RX Receive mode  
LTE B4 RX Receive mode  
LTE B13 RX Receive mode

#### NOTE.

The EUT is powered by an internal battery or a switching adapter and has only ports to connect the phone and can't be wired to the PC (IT equipment)



## 5. CONDUCTED AND RADIATED EMISSION TEST SUMMARY

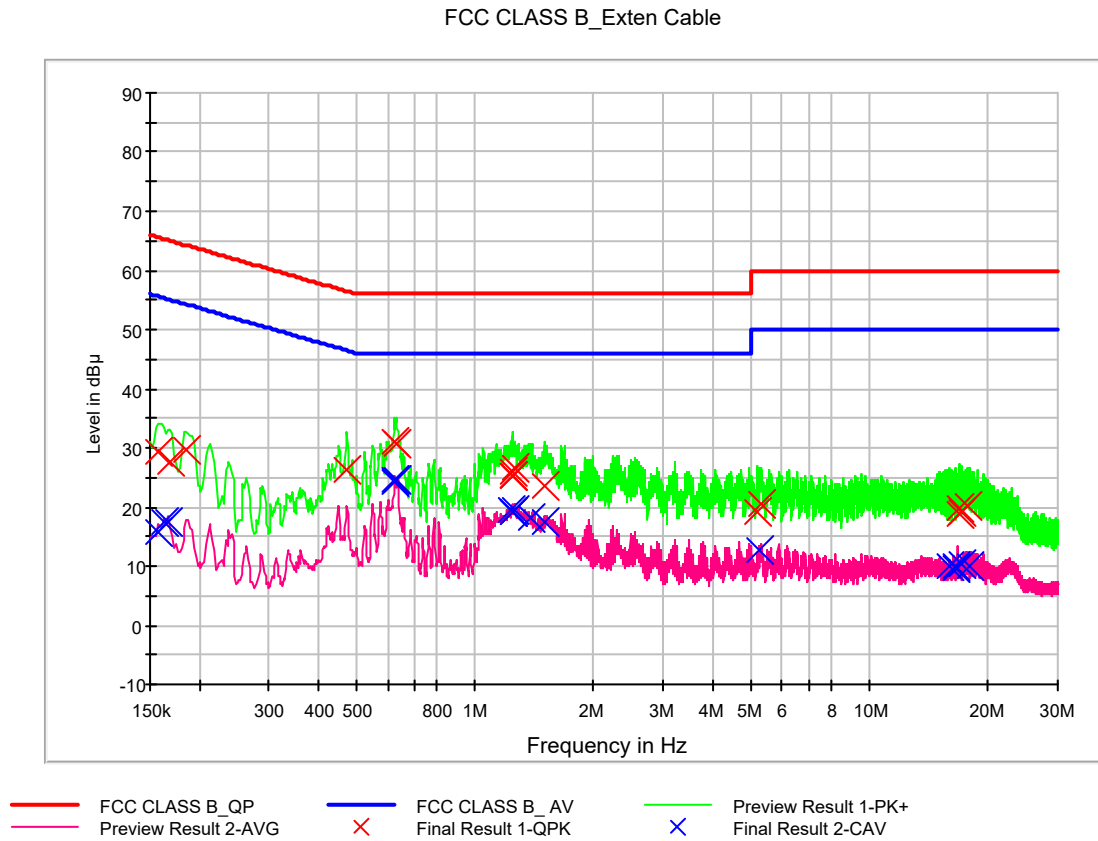
### 5.1 Conducted Emission

The test results of conducted emission at mains ports provide the following information:

|                      |                               |
|----------------------|-------------------------------|
| Rule Part / Standard | FCC PART 15 Subpart B Class B |
| Detector             | Quasi-Peak, CISPR-Average     |
| Bandwidth            | 9 kHz (6 dB)                  |
| Kind of Test Site    | EMI Shielded Room             |
| Temperature          | 21.1 °C                       |
| Relative Humidity    | 40.3 %                        |
| Test Date            | December 25, 2018             |

#### ***- Calculation Formula:***

1. Conductor L1 = Hot, Conductor N = Neutral
2. Corr. = LISN Factor + Cable Loss
3. QuasiPeak or CAverage= Receiver Reading + Corr.
4. Margin = Limit – QuasiPeak or CAverage

**Figure 1: Conducted Emission, Charging & LTE B4 RX Receive mode, Line (L1)**



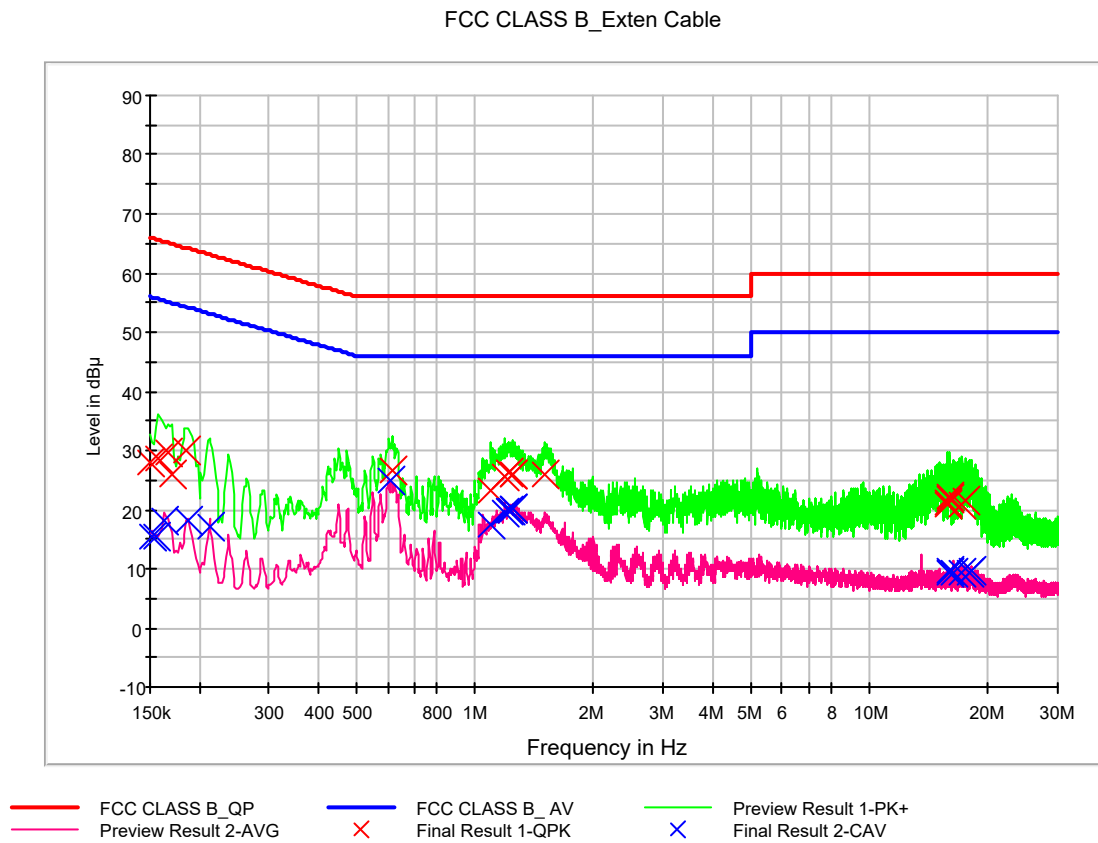
## QuasiPeak Final Result, Line (L1)

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.158000        | 29.2             | 9.000           | L1   | 9.7        | 36.4        | 65.6         |
| 0.168000        | 27.7             | 9.000           | L1   | 9.7        | 37.3        | 65.1         |
| 0.186000        | 29.6             | 9.000           | L1   | 9.7        | 34.7        | 64.2         |
| 0.474000        | 26.2             | 9.000           | L1   | 9.8        | 30.2        | 56.4         |
| 0.626000        | 30.9             | 9.000           | L1   | 9.8        | 25.1        | 56.0         |
| 0.632000        | 30.6             | 9.000           | L1   | 9.8        | 25.4        | 56.0         |
| 1.240000        | 25.8             | 9.000           | L1   | 9.9        | 30.2        | 56.0         |
| 1.244000        | 25.2             | 9.000           | L1   | 9.9        | 30.8        | 56.0         |
| 1.248000        | 25.3             | 9.000           | L1   | 9.9        | 30.7        | 56.0         |
| 1.252000        | 25.4             | 9.000           | L1   | 9.9        | 30.6        | 56.0         |
| 1.258000        | 26.6             | 9.000           | L1   | 9.9        | 29.4        | 56.0         |
| 1.506000        | 23.6             | 9.000           | L1   | 9.9        | 32.4        | 56.0         |
| 5.214000        | 19.0             | 9.000           | L1   | 10.0       | 41.0        | 60.0         |
| 5.298000        | 20.6             | 9.000           | L1   | 10.0       | 39.4        | 60.0         |
| 16.880000       | 18.7             | 9.000           | L1   | 10.5       | 41.3        | 60.0         |
| 16.926000       | 20.0             | 9.000           | L1   | 10.5       | 40.0        | 60.0         |
| 17.180000       | 19.0             | 9.000           | L1   | 10.5       | 41.0        | 60.0         |
| 17.626000       | 20.1             | 9.000           | L1   | 10.5       | 39.9        | 60.0         |



## CAverage Final Result, Line (L1)

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|------|------------|-------------|--------------|
| 0.158000        | 15.7            | 9.000           | L1   | 9.7        | 39.9        | 55.6         |
| 0.162000        | 17.6            | 9.000           | L1   | 9.7        | 37.7        | 55.4         |
| 0.166000        | 17.3            | 9.000           | L1   | 9.7        | 37.9        | 55.2         |
| 0.624000        | 24.5            | 9.000           | L1   | 9.8        | 21.5        | 46.0         |
| 0.628000        | 24.1            | 9.000           | L1   | 9.8        | 21.9        | 46.0         |
| 0.632000        | 24.5            | 9.000           | L1   | 9.8        | 21.5        | 46.0         |
| 1.236000        | 19.5            | 9.000           | L1   | 9.9        | 26.5        | 46.0         |
| 1.240000        | 19.3            | 9.000           | L1   | 9.9        | 26.7        | 46.0         |
| 1.244000        | 19.3            | 9.000           | L1   | 9.9        | 26.7        | 46.0         |
| 1.258000        | 19.7            | 9.000           | L1   | 9.9        | 26.3        | 46.0         |
| 1.390000        | 18.2            | 9.000           | L1   | 9.9        | 27.8        | 46.0         |
| 1.506000        | 17.6            | 9.000           | L1   | 9.9        | 28.4        | 46.0         |
| 5.230000        | 12.6            | 9.000           | L1   | 10.0       | 37.4        | 50.0         |
| 15.960000       | 9.9             | 9.000           | L1   | 10.4       | 40.1        | 50.0         |
| 16.598000       | 9.5             | 9.000           | L1   | 10.5       | 40.5        | 50.0         |
| 16.610000       | 9.9             | 9.000           | L1   | 10.5       | 40.1        | 50.0         |
| 17.180000       | 10.4            | 9.000           | L1   | 10.5       | 39.6        | 50.0         |
| 17.842000       | 10.0            | 9.000           | L1   | 10.5       | 40.0        | 50.0         |

**Figure 2: Conducted Emission, Charging & LTE B4 RX Receive mode, Line (N)**



## QuasiPeak Final Result, Line (N)

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.150000        | 27.9             | 9.000           | N    | 9.8        | 38.1        | 66.0         |
| 0.158000        | 28.6             | 9.000           | N    | 9.8        | 36.9        | 65.6         |
| 0.166000        | 29.7             | 9.000           | N    | 9.8        | 35.5        | 65.2         |
| 0.170000        | 26.1             | 9.000           | N    | 9.8        | 38.9        | 65.0         |
| 0.186000        | 29.9             | 9.000           | N    | 9.8        | 34.4        | 64.2         |
| 0.618000        | 26.6             | 9.000           | N    | 9.9        | 29.4        | 56.0         |
| 1.098000        | 23.2             | 9.000           | N    | 10.0       | 32.8        | 56.0         |
| 1.190000        | 25.5             | 9.000           | N    | 10.0       | 30.5        | 56.0         |
| 1.212000        | 26.4             | 9.000           | N    | 10.0       | 29.6        | 56.0         |
| 1.244000        | 26.0             | 9.000           | N    | 10.0       | 30.0        | 56.0         |
| 1.252000        | 25.9             | 9.000           | N    | 10.0       | 30.1        | 56.0         |
| 1.500000        | 25.9             | 9.000           | N    | 10.1       | 30.1        | 56.0         |
| 15.680000       | 21.3             | 9.000           | N    | 10.7       | 38.7        | 60.0         |
| 15.696000       | 21.0             | 9.000           | N    | 10.7       | 39.0        | 60.0         |
| 15.950000       | 21.9             | 9.000           | N    | 10.7       | 38.1        | 60.0         |
| 15.970000       | 22.0             | 9.000           | N    | 10.7       | 38.0        | 60.0         |
| 17.212000       | 21.0             | 9.000           | N    | 10.8       | 39.0        | 60.0         |
| 17.498000       | 21.4             | 9.000           | N    | 10.8       | 38.6        | 60.0         |



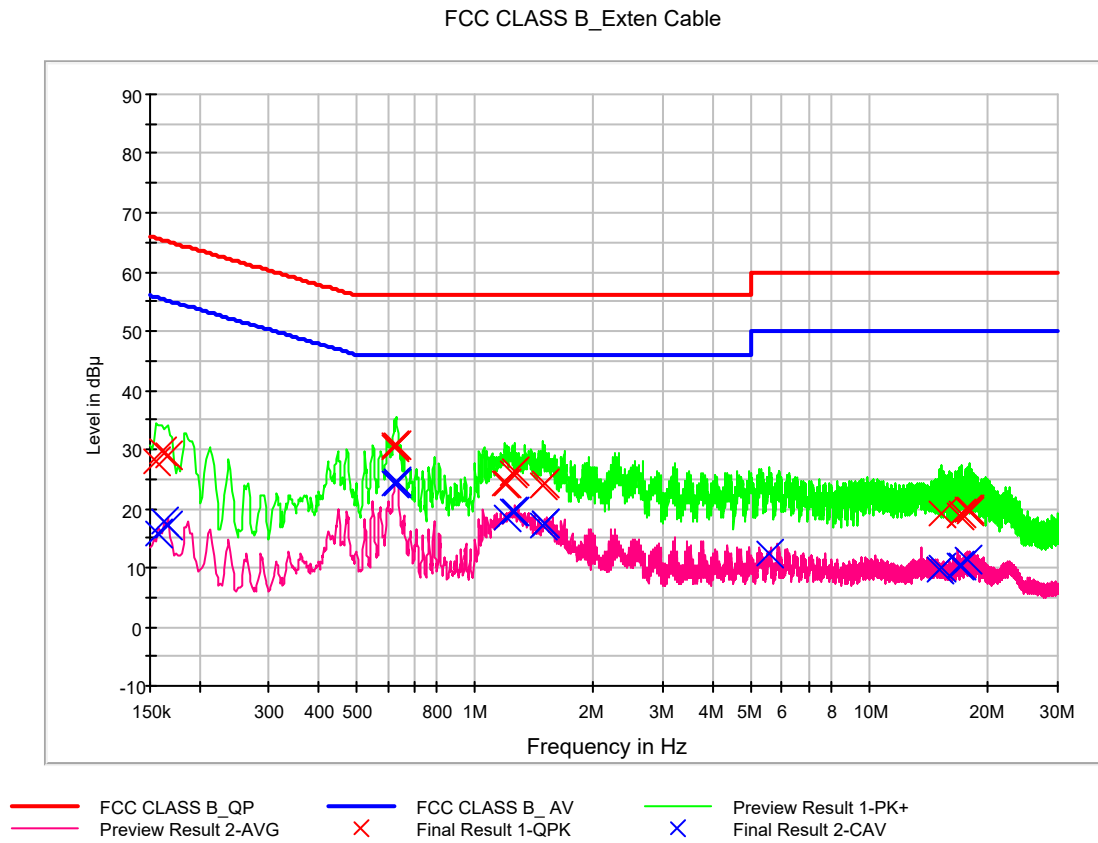


## CAverage Final Result, Line (N)

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|------|------------|-------------|--------------|
| 0.152000        | 15.5            | 9.000           | N    | 9.8        | 40.4        | 55.9         |
| 0.156000        | 15.5            | 9.000           | N    | 9.8        | 40.2        | 55.7         |
| 0.162000        | 18.3            | 9.000           | N    | 9.8        | 37.1        | 55.4         |
| 0.188000        | 18.3            | 9.000           | N    | 9.8        | 35.8        | 54.1         |
| 0.212000        | 17.0            | 9.000           | N    | 9.9        | 36.1        | 53.1         |
| 0.612000        | 24.8            | 9.000           | N    | 9.9        | 21.2        | 46.0         |
| 1.098000        | 17.5            | 9.000           | N    | 10.0       | 28.5        | 46.0         |
| 1.190000        | 19.5            | 9.000           | N    | 10.0       | 26.5        | 46.0         |
| 1.212000        | 19.8            | 9.000           | N    | 10.0       | 26.2        | 46.0         |
| 1.226000        | 20.0            | 9.000           | N    | 10.0       | 26.0        | 46.0         |
| 1.244000        | 20.2            | 9.000           | N    | 10.0       | 25.8        | 46.0         |
| 1.252000        | 20.3            | 9.000           | N    | 10.0       | 25.7        | 46.0         |
| 15.950000       | 9.3             | 9.000           | N    | 10.7       | 40.7        | 50.0         |
| 15.970000       | 9.5             | 9.000           | N    | 10.7       | 40.5        | 50.0         |
| 16.246000       | 9.2             | 9.000           | N    | 10.7       | 40.8        | 50.0         |
| 17.212000       | 9.4             | 9.000           | N    | 10.8       | 40.6        | 50.0         |
| 17.898000       | 9.2             | 9.000           | N    | 10.8       | 40.8        | 50.0         |
| 18.064000       | 9.5             | 9.000           | N    | 10.8       | 40.5        | 50.0         |



Figure 3: Conducted Emission, Charging &amp; LTE B13 RX Receive mode, Line (L1)





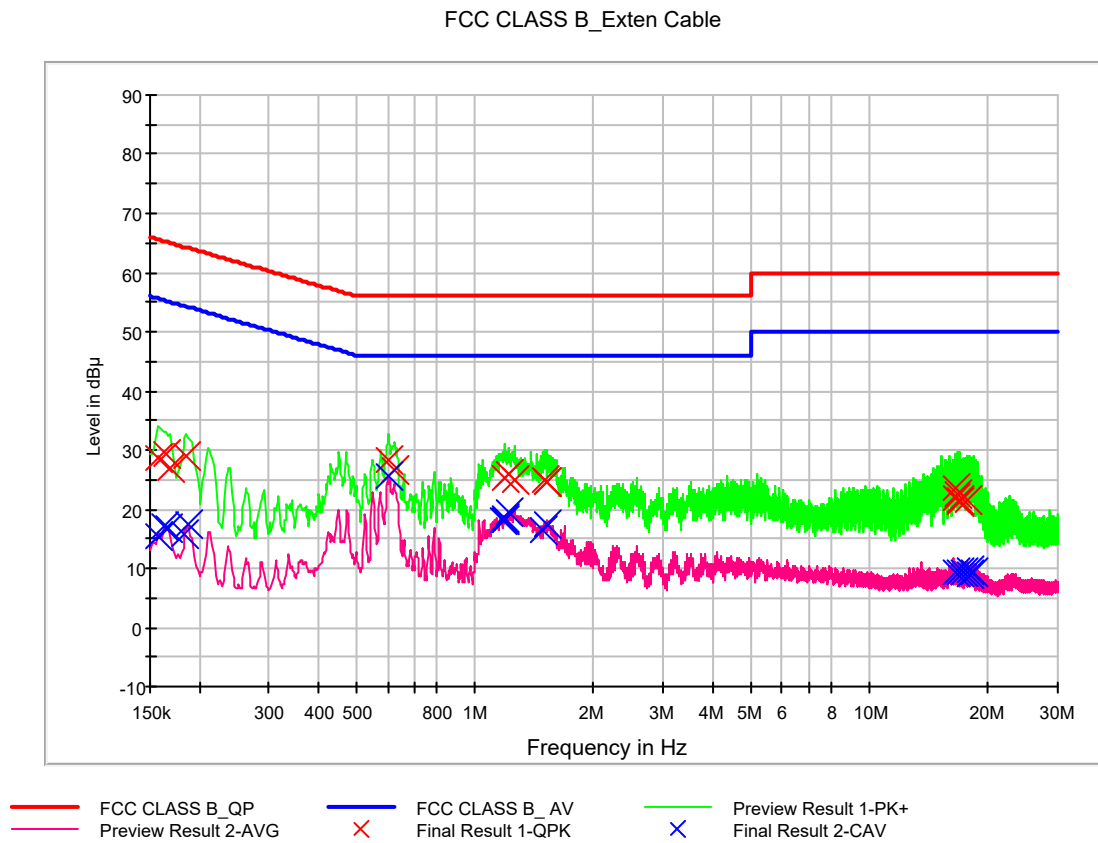
## QuasiPeak Final Result, Line (L1)

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.156000        | 27.9             | 9.000           | L1   | 9.7        | 37.8        | 65.7         |
| 0.160000        | 29.7             | 9.000           | L1   | 9.7        | 35.7        | 65.5         |
| 0.166000        | 28.9             | 9.000           | L1   | 9.7        | 36.2        | 65.2         |
| 0.624000        | 30.5             | 9.000           | L1   | 9.8        | 25.5        | 56.0         |
| 0.628000        | 30.5             | 9.000           | L1   | 9.8        | 25.5        | 56.0         |
| 0.632000        | 30.6             | 9.000           | L1   | 9.8        | 25.4        | 56.0         |
| 1.192000        | 24.3             | 9.000           | L1   | 9.8        | 31.7        | 56.0         |
| 1.196000        | 24.4             | 9.000           | L1   | 9.8        | 31.6        | 56.0         |
| 1.240000        | 26.0             | 9.000           | L1   | 9.9        | 30.0        | 56.0         |
| 1.264000        | 26.2             | 9.000           | L1   | 9.9        | 29.8        | 56.0         |
| 1.480000        | 23.8             | 9.000           | L1   | 9.9        | 32.2        | 56.0         |
| 1.498000        | 24.1             | 9.000           | L1   | 9.9        | 31.9        | 56.0         |
| 15.236000       | 19.1             | 9.000           | L1   | 10.4       | 40.9        | 60.0         |
| 16.902000       | 19.0             | 9.000           | L1   | 10.5       | 41.0        | 60.0         |
| 17.168000       | 19.0             | 9.000           | L1   | 10.5       | 41.0        | 60.0         |
| 17.736000       | 19.8             | 9.000           | L1   | 10.5       | 40.2        | 60.0         |
| 17.876000       | 19.6             | 9.000           | L1   | 10.5       | 40.4        | 60.0         |
| 17.882000       | 19.8             | 9.000           | L1   | 10.5       | 40.2        | 60.0         |



## CAverage Final Result, Line (L1)

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|------|------------|-------------|--------------|
| 0.158000        | 15.7            | 9.000           | L1   | 9.7        | 39.9        | 55.6         |
| 0.162000        | 17.7            | 9.000           | L1   | 9.7        | 37.6        | 55.4         |
| 0.166000        | 17.2            | 9.000           | L1   | 9.7        | 38.0        | 55.2         |
| 0.626000        | 24.4            | 9.000           | L1   | 9.8        | 21.6        | 46.0         |
| 0.630000        | 24.3            | 9.000           | L1   | 9.8        | 21.7        | 46.0         |
| 0.634000        | 24.5            | 9.000           | L1   | 9.8        | 21.5        | 46.0         |
| 1.196000        | 18.5            | 9.000           | L1   | 9.8        | 27.5        | 46.0         |
| 1.240000        | 19.6            | 9.000           | L1   | 9.9        | 26.4        | 46.0         |
| 1.264000        | 19.7            | 9.000           | L1   | 9.9        | 26.3        | 46.0         |
| 1.480000        | 17.0            | 9.000           | L1   | 9.9        | 29.0        | 46.0         |
| 1.498000        | 17.5            | 9.000           | L1   | 9.9        | 28.5        | 46.0         |
| 1.502000        | 17.4            | 9.000           | L1   | 9.9        | 28.6        | 46.0         |
| 5.578000        | 12.3            | 9.000           | L1   | 10.1       | 37.7        | 50.0         |
| 15.030000       | 9.6             | 9.000           | L1   | 10.4       | 40.4        | 50.0         |
| 15.236000       | 9.9             | 9.000           | L1   | 10.4       | 40.1        | 50.0         |
| 16.902000       | 10.5            | 9.000           | L1   | 10.5       | 39.5        | 50.0         |
| 17.168000       | 10.3            | 9.000           | L1   | 10.5       | 39.7        | 50.0         |
| 17.736000       | 11.2            | 9.000           | L1   | 10.5       | 38.8        | 50.0         |

**Figure 4: Conducted Emission, Charging & LTE B13 RX Receive mode, Line (N)**



## QuasiPeak Final Result, Line (N)

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|------|------------|-------------|--------------|
| 0.158000        | 28.7             | 9.000           | N    | 9.8        | 36.8        | 65.6         |
| 0.164000        | 29.3             | 9.000           | N    | 9.8        | 36.0        | 65.3         |
| 0.168000        | 27.0             | 9.000           | N    | 9.8        | 38.1        | 65.1         |
| 0.186000        | 29.1             | 9.000           | N    | 9.8        | 35.1        | 64.2         |
| 0.604000        | 28.2             | 9.000           | N    | 9.9        | 27.8        | 56.0         |
| 0.628000        | 26.7             | 9.000           | N    | 9.9        | 29.3        | 56.0         |
| 1.188000        | 25.2             | 9.000           | N    | 10.0       | 30.8        | 56.0         |
| 1.214000        | 25.8             | 9.000           | N    | 10.0       | 30.2        | 56.0         |
| 1.258000        | 25.0             | 9.000           | N    | 10.0       | 31.0        | 56.0         |
| 1.500000        | 25.0             | 9.000           | N    | 10.1       | 31.0        | 56.0         |
| 1.516000        | 24.5             | 9.000           | N    | 10.1       | 31.5        | 56.0         |
| 1.520000        | 24.4             | 9.000           | N    | 10.1       | 31.6        | 56.0         |
| 16.500000       | 23.5             | 9.000           | N    | 10.7       | 36.5        | 60.0         |
| 16.604000       | 21.9             | 9.000           | N    | 10.7       | 38.1        | 60.0         |
| 16.792000       | 22.6             | 9.000           | N    | 10.7       | 37.4        | 60.0         |
| 16.886000       | 21.2             | 9.000           | N    | 10.7       | 38.8        | 60.0         |
| 16.900000       | 21.4             | 9.000           | N    | 10.7       | 38.6        | 60.0         |
| 17.784000       | 21.6             | 9.000           | N    | 10.8       | 38.4        | 60.0         |



## CAverage Final Result, Line (N)

| Frequency<br>(MHz) | CAverage<br>(dBuV) | Bandwidth<br>(kHz) | Line | Corr.<br>(dB) | Margin<br>(dB) | Limit<br>(dBuV) |
|--------------------|--------------------|--------------------|------|---------------|----------------|-----------------|
| 0.158000           | 15.3               | 9.000              | N    | 9.8           | 40.2           | 55.6            |
| 0.162000           | 17.3               | 9.000              | N    | 9.8           | 38.1           | 55.4            |
| 0.166000           | 16.9               | 9.000              | N    | 9.8           | 38.3           | 55.2            |
| 0.184000           | 15.8               | 9.000              | N    | 9.8           | 38.5           | 54.3            |
| 0.188000           | 17.5               | 9.000              | N    | 9.8           | 36.7           | 54.1            |
| 0.600000           | 25.4               | 9.000              | N    | 10.0          | 20.6           | 46.0            |
| 1.176000           | 18.1               | 9.000              | N    | 10.0          | 27.9           | 46.0            |
| 1.188000           | 18.3               | 9.000              | N    | 10.0          | 27.7           | 46.0            |
| 1.194000           | 18.6               | 9.000              | N    | 10.0          | 27.4           | 46.0            |
| 1.214000           | 19.4               | 9.000              | N    | 10.0          | 26.6           | 46.0            |
| 1.488000           | 16.5               | 9.000              | N    | 10.1          | 29.5           | 46.0            |
| 1.516000           | 17.4               | 9.000              | N    | 10.1          | 28.6           | 46.0            |
| 16.604000          | 9.4                | 9.000              | N    | 10.7          | 40.6           | 50.0            |
| 16.900000          | 9.4                | 9.000              | N    | 10.7          | 40.6           | 50.0            |
| 17.340000          | 9.4                | 9.000              | N    | 10.8          | 40.6           | 50.0            |
| 17.894000          | 9.5                | 9.000              | N    | 10.8          | 40.5           | 50.0            |
| 18.010000          | 8.9                | 9.000              | N    | 10.8          | 41.1           | 50.0            |
| 18.454000          | 9.4                | 9.000              | N    | 10.8          | 40.6           | 50.0            |



## 5.2 Radiated Emission

The test results of radiated emission provide the following information:

### For Measurement Below 1 GHz

|                      |                               |
|----------------------|-------------------------------|
| Rule Part / Standard | FCC PART 15 Subpart B Class B |
| Detector             | Quasi-Peak                    |
| Bandwidth            | 120 kHz (6 dB)                |
| Kind of Test Site    | 3 m semi anechoic chamber     |
| Temperature          | 21.0 °C                       |
| Relative Humidity    | 41.1 %                        |
| Test Date            | December 25, 2018             |

### - Calculation Formula:

1. POL. H = Horizontal, POL. V = Vertical
2. QuasiPeak = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor + Cable Loss
4. Margin = Limit - QuasiPeak



**Charging & LTE B4 RX Receive mode**

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 32.224000       | 19.6                | 174.9               | V          | 308.0         | 18.9       | 20.4        | 40.0           |
| 54.613600       | 17.9                | 208.8               | V          | 57.0          | 20.0       | 22.1        | 40.0           |
| 64.635200       | 17.6                | 117.9               | V          | 53.0          | 18.9       | 22.4        | 40.0           |
| 276.972000      | 17.8                | 225.1               | V          | 0.0           | 19.8       | 28.2        | 46.0           |
| 697.065600      | 28.4                | 292.9               | V          | 64.0          | 28.7       | 17.6        | 46.0           |
| 959.064000      | 31.8                | 374.7               | V          | 271.0         | 31.7       | 14.2        | 46.0           |

**Charging & LTE B13 RX Receive mode**

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 32.151200       | 19.5                | 175.0               | V          | 37.0          | 18.9       | 20.5        | 40.0           |
| 58.149600       | 17.4                | 374.8               | V          | 128.0         | 19.9       | 22.6        | 40.0           |
| 64.753600       | 17.5                | 125.2               | V          | 158.0         | 18.9       | 22.5        | 40.0           |
| 250.005600      | 24.4                | 191.9               | V          | 1.0           | 18.8       | 21.6        | 46.0           |
| 492.358400      | 23.9                | 99.7                | V          | 200.0         | 25.0       | 22.1        | 46.0           |
| 653.059200      | 27.9                | 174.9               | V          | 82.0          | 28.1       | 18.1        | 46.0           |

**LTE B4 RX Receive mode**

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 32.415200       | 19.0                | 174.9               | V          | 348.0         | 18.9       | 21.0        | 40.0           |
| 52.328000       | 18.0                | 99.7                | V          | 216.0         | 20.2       | 22.0        | 40.0           |
| 70.527200       | 15.2                | 374.8               | V          | 318.0         | 17.9       | 24.8        | 40.0           |
| 155.742400      | 18.5                | 225.2               | V          | 79.0          | 20.1       | 25.0        | 43.5           |
| 250.009600      | 24.4                | 174.8               | V          | 1.0           | 18.8       | 21.6        | 46.0           |
| 630.552000      | 27.7                | 374.8               | V          | 340.0         | 27.8       | 18.3        | 46.0           |

**LTE B13 RX Receive mode**

| Frequency (MHz) | Quasi Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 34.229600       | 17.9                | 174.9               | V          | 223.0         | 19.1       | 22.1        | 40.0           |
| 48.140000       | 17.5                | 274.9               | V          | 109.0         | 20.2       | 22.5        | 40.0           |
| 168.407200      | 18.0                | 116.8               | V          | 334.0         | 19.6       | 25.5        | 43.5           |
| 249.987200      | 23.5                | 225.2               | V          | 27.0          | 18.8       | 22.5        | 46.0           |
| 476.758400      | 23.6                | 116.8               | V          | 45.0          | 24.7       | 22.4        | 46.0           |
| 697.177600      | 28.4                | 374.7               | V          | 130.0         | 28.7       | 17.6        | 46.0           |

**For Measurement Above 1 GHz**

|                             |   |
|-----------------------------|---|
| Rule Part / Standard        | FCC PART 15 Subpart B Class B   |
| Detector                    | Peak mode: Peak (RBW: 1 MHz, VBW: 3 MHz)<br>CISPR-Average mode: Peak (RBW: 1 MHz, VBW: 10 Hz) |
| Highest Operating Frequency | 1 754.3 MHz   |
| Tested Frequency Range      | 1 GHz to 18 GHz   |
| Kind of Test Site           | 3 m semi anechoic chamber   |
| Temperature                 | 21.0 °C   |
| Relative Humidity           | 41.1 %  |
| Test Date                   | December 24, 2018   |

**- Calculation Formula:**

1. POL. H = Horizontal, POL. V = Vertical
2. Peak or CAverage = Reading (Receiver Reading) + Corr.
3. Corr. (Correction Factor) = Antenna Factor+ Cable Loss –Amplifier Gain
4. Margin = Limit - Peak or CAverage



### Charging & LTE B4 RX Receive mode

| Frequency (MHz) | Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------|---------------------|------------|---------------|------------|-------------|----------------|
| 4265.035000     | 36.5          | 337.5               | V          | 45.0          | -20.2      | 37.5        | 74.0           |
| 6776.935000     | 33.7          | 99.7                | V          | 198.0         | -14.9      | 40.4        | 74.0           |
| 9723.095000     | 43.0          | 187.4               | H          | 46.0          | -9.7       | 31.0        | 74.0           |
| 11232.790000    | 46.0          | 150.0               | H          | 0.0           | -5.2       | 28.0        | 74.0           |
| 12794.775000    | 44.4          | 190.5               | V          | 63.0          | -4.9       | 29.6        | 74.0           |
| 14756.000000    | 43.4          | 189.6               | V          | 71.0          | -1.4       | 30.6        | 74.0           |

| Frequency (MHz) | CAverage (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|-------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 4265.035000     | 28.8              | 337.5               | V          | 45.0          | -20.2      | 25.2        | 54.0           |
| 6776.935000     | 15.7              | 99.7                | V          | 198.0         | -14.9      | 38.3        | 54.0           |
| 9723.095000     | 30.0              | 187.4               | H          | 46.0          | -9.7       | 24.0        | 54.0           |
| 11232.790000    | 32.7              | 150.0               | H          | 0.0           | -5.2       | 21.3        | 54.0           |
| 12794.775000    | 31.8              | 190.5               | V          | 63.0          | -4.9       | 22.2        | 54.0           |
| 14756.000000    | 30.3              | 189.6               | V          | 71.0          | -1.4       | 23.7        | 54.0           |

### Charging & LTE B13 RX Receive mode

| Frequency (MHz) | Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------|---------------------|------------|---------------|------------|-------------|----------------|
| 5136.875000     | 35.6          | 124.6               | V          | 50.0          | -18.4      | 38.4        | 74.0           |
| 7425.370000     | 41.0          | 126.6               | V          | 52.0          | -13.0      | 33.0        | 74.0           |
| 9853.080000     | 44.0          | 99.9                | V          | 120.0         | -9.5       | 30.0        | 74.0           |
| 11501.760000    | 44.9          | 335.5               | H          | 50.0          | -4.8       | 29.1        | 74.0           |
| 13414.080000    | 39.9          | 150.0               | H          | 149.0         | -3.9       | 34.1        | 74.0           |
| 14749.585000    | 43.6          | 249.4               | H          | 162.0         | -1.4       | 30.4        | 74.0           |

| Frequency (MHz) | CAverage (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|-------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 5136.875000     | 22.5              | 124.6               | V          | 50.0          | -18.4      | 31.5        | 54.0           |
| 7425.370000     | 27.5              | 126.6               | V          | 52.0          | -13.0      | 26.5        | 54.0           |
| 9853.080000     | 31.6              | 99.9                | V          | 120.0         | -9.5       | 22.4        | 54.0           |
| 11501.760000    | 32.2              | 335.5               | H          | 50.0          | -4.8       | 21.8        | 54.0           |
| 13414.080000    | 27.2              | 150.0               | H          | 149.0         | -3.9       | 26.8        | 54.0           |
| 14749.585000    | 30.8              | 249.4               | H          | 162.0         | -1.4       | 23.2        | 54.0           |



## LTE B4 RX Receive mode

| Frequency (MHz) | Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------|---------------------|------------|---------------|------------|-------------|----------------|
| 4253.765000     | 35.3          | 189.5               | V          | 50.0          | -20.2      | 38.7        | 74.0           |
| 7797.550000     | 41.7          | 291.5               | V          | 182.0         | -12.5      | 32.3        | 74.0           |
| 9513.810000     | 44.4          | 248.6               | H          | 199.0         | -10.0      | 29.6        | 74.0           |
| 10757.100000    | 45.1          | 204.6               | V          | 148.0         | -6.4       | 28.9        | 74.0           |
| 12819.155000    | 43.3          | 249.8               | V          | 29.0          | -4.8       | 30.7        | 74.0           |
| 14850.050000    | 47.3          | 190.5               | H          | 313.0         | -1.3       | 26.7        | 74.0           |

| Frequency (MHz) | CAverage (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|-------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 4253.765000     | 22.3              | 189.5               | V          | 50.0          | -20.2      | 31.7        | 54.0           |
| 7797.550000     | 28.9              | 291.5               | V          | 182.0         | -12.5      | 25.1        | 54.0           |
| 9513.810000     | 31.5              | 248.6               | H          | 199.0         | -10.0      | 22.5        | 54.0           |
| 10757.100000    | 32.4              | 204.6               | V          | 148.0         | -6.4       | 21.6        | 54.0           |
| 12819.155000    | 30.8              | 249.8               | V          | 29.0          | -4.8       | 23.2        | 54.0           |
| 14850.050000    | 33.7              | 190.5               | H          | 313.0         | -1.3       | 20.3        | 54.0           |

## LTE B13 RX Receive mode

| Frequency (MHz) | Peak (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|---------------|---------------------|------------|---------------|------------|-------------|----------------|
| 3014.515000     | 33.4          | 337.5               | V          | 29.0          | -22.8      | 40.6        | 74.0           |
| 5684.000000     | 36.8          | 350.1               | V          | 200.0         | -17.6      | 37.2        | 74.0           |
| 7462.415000     | 41.1          | 150.0               | H          | 164.0         | -12.8      | 32.9        | 74.0           |
| 10050.215000    | 43.7          | 244.4               | H          | 29.0          | -9.1       | 30.3        | 74.0           |
| 11009.540000    | 45.3          | 124.6               | H          | 54.0          | -5.6       | 28.7        | 74.0           |
| 14648.600000    | 46.8          | 199.4               | H          | 284.0         | -1.5       | 27.2        | 74.0           |

| Frequency (MHz) | CAverage (dBμV/m) | Antenna Height (cm) | POL. (H/V) | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|-------------------|---------------------|------------|---------------|------------|-------------|----------------|
| 3014.515000     | 20.9              | 337.5               | V          | 29.0          | -22.8      | 33.1        | 54.0           |
| 5684.000000     | 23.9              | 350.1               | V          | 200.0         | -17.6      | 30.1        | 54.0           |
| 7462.415000     | 28.3              | 150.0               | H          | 164.0         | -12.8      | 25.7        | 54.0           |
| 10050.215000    | 30.7              | 244.4               | H          | 29.0          | -9.1       | 23.3        | 54.0           |
| 11009.540000    | 32.6              | 124.6               | H          | 54.0          | -5.6       | 21.4        | 54.0           |
| 14648.600000    | 34.0              | 199.4               | H          | 284.0         | -1.5       | 20.0        | 54.0           |



## 6. CONCLUSION

The data collected shows that the **EUT Type: VoLTE Home Phone Connect, Model: F800HPVL** complies with §15.107 and §15.109 of the FCC rules.



## 7. APPENDIX A. TEST SETUP PHOTOGRAPHS

Please refer to Appendix A