



FCC TEST REPORT

FCC ID:2BH8E-OC21

Applicant: Shenzhen Ouchao Technology Co., Ltd
Address: 303, Building 34, Longzhu Garden, Xixiang Street, Bao'an District, ShenZhen China
Manufacturer: Shenzhen Ouchao Technology Co., Ltd
Address: 303, Building 34, Longzhu Garden, Xixiang Street, Bao'an District, ShenZhen China
EUT: Four in one wireless charging
Trade Mark: N/A
Model Number: OC21
Date of Receipt: Jun. 21, 2025
Test Date: Jun. 21, 2025 to Jul. 09, 2025
Date of Report: Jul. 09, 2025

Prepared By: Shenzhen DL Testing Technology Co., Ltd.
Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Roa Baolong Industrial Zone, Baolong Street, Longgang Shenzhen, Guangdong, China
Applicable Standards: FCC CFR Title 47 Part 15 Subpart C
Test Result: Pass
Report Number: DLE-250709010R

Prepared (Test Engineer): Dimon Tan

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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1. VERSION

| Report No. | Version | Description | Approved |
|----------------|---------|-------------------------|---------------|
| DLE-250709010R | Rev.01 | Initial issue of report | Jul. 09, 2025 |
| | | | |



2. TEST SUMMARY

| Test Item | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement | 15.203 | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Spurious Emission | 15.209(a)(f) | Pass |
| 20dB Bandwidth | 15.215 | Pass |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen DL Testing Technology Co., Ltd.

Add. : 101-201, Building C, Shuanghuan, No.8, Baoqing Roa Baolong Industrial Zone, Baolong Street Longgang Shenzhen, Guangdong, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB identifier: CN0118

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty |
|-----|--|------------------------|
| 1 | 3m camber Radiated spurious emission (9KHz-30MHz) | $U=4.5\text{dB}$ |
| 2 | 3m camber Radiated spurious emission (30MHz-1GHz) | $U=4.8\text{dB}$ |
| 3 | 3m chamber Radiated spurious emission (1GHz-6GHz) | $U=4.9\text{dB}$ |
| 4 | 3m chamber Radiated spurious emission (6GHz-40GHz) | $U=5.0\text{dB}$ |
| 5 | Conducted Disturbance | $U=3.2\text{dB}$ |
| 6 | RF Conducted Spurious Emission | $U=2.2\text{dB}$ |
| 7 | RF Occupied Bandwidth | $U=1.8\text{MHz}$ |
| 8 | Humidity Uncertainty | $U=5.3\%$ |
| 9 | Temperature Uncertainty | $U=0.59^\circ\text{C}$ |



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|----------------------|---|
| Product Name: | Four in one wireless charging |
| Model No.: | OC21 |
| Serial No.: | N/A |
| Model Difference: | N/A |
| Hardware Version: | V 1.0 |
| Software Version: | V 1.1 |
| Operation Frequency: | ANT 1&2&3: 110kHz ~ 205kHz ANT 4: 320kHz ~ 360kHz |
| Modulation Type: | ASK |
| Antenna Type: | Loop Coil Antenna |
| Antenna Gain: | 0dBi |
| Ratings: | Input: 5V---3A, 9V---2A, 9V---3A Phone Output 1: 15W/10W/7.5W/5W Phone Output 2: 15W/10W/7.5W/5W Earphone Output: 3W Watch Output: 2.5W |
| Transmitting Mode: | Keep the EUT in continuously wireless charging mode |



3.2 TEST MODE

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The EUT is divided into two open modes. Mode a is the non-fold mode, in which the EUT can output wirelessly to both the phone and the headset at the same time; mode b is the fold mode, in which the EUT can only output wirelessly to the phone.

Note: Since the EUT operates in the same mode before and after folding, the report only reflects the test data before folding.



a. EUT mode of operation before folding:

| Test Modes: | Test Coil: | Description: |
|-------------|------------|---|
| Mode 1a | ANT 1 | AC/DC Adapter (9V/3A) + EUT + Phone1 (Battery Status: <1%) |
| Mode 2a | | AC/DC Adapter (9V/3A) + EUT + Phone1 (Battery Status: 50%) |
| Mode 3a | | AC/DC Adapter (9V/3A) + EUT + Phone1 (Battery Status: >98%) |
| Mode 1b | | AC/DC Adapter (9V/2A) + EUT + Phone1 (Battery Status: <1%) |
| Mode 2b | | AC/DC Adapter (9V/2A) + EUT + Phone1 (Battery Status: 50%) |
| Mode 3b | | AC/DC Adapter (9V/2A) + EUT + Phone1 (Battery Status: >98%) |
| Mode 1c | | AC/DC Adapter (5V/3A) + EUT + Phone1 (Battery Status: <1%) |
| Mode 2c | | AC/DC Adapter (5V/3A) + EUT + Phone1 (Battery Status: 50%) |
| Mode 3c | | AC/DC Adapter (5V/3A) + EUT + Phone1 (Battery Status: >98%) |
| Mode 4a | ANT 2 | AC/DC Adapter (9V/3A) + EUT + Phone2 (Battery Status: <1%) |
| Mode 5a | | AC/DC Adapter (9V/3A) + EUT + Phone2 (Battery Status: 50%) |
| Mode 6a | | AC/DC Adapter (9V/3A) + EUT + Phone2 (Battery Status: >98%) |
| Mode 4b | | AC/DC Adapter (9V/2A) + EUT + Phone2 (Battery Status: <1%) |
| Mode 5b | | AC/DC Adapter (9V/2A) + EUT + Phone2 (Battery Status: 50%) |
| Mode 6b | | AC/DC Adapter (9V/2A) + EUT + Phone2 (Battery Status: >98%) |
| Mode 4c | | AC/DC Adapter (5V/3A) + EUT + Phone2 (Battery Status: <1%) |
| Mode 5c | | AC/DC Adapter (5V/3A) + EUT + Phone2 (Battery Status: 50%) |
| Mode 6c | | AC/DC Adapter (5V/3A) + EUT + Phone2 (Battery Status: >98%) |
| Mode 7a | ANT 3 | AC/DC Adapter (9V/3A) + EUT + Earphone (Battery Status: <1%) |
| Mode 8a | | AC/DC Adapter (9V/3A) + EUT + Earphone (Battery Status: 50%) |
| Mode 9a | | AC/DC Adapter (9V/3A) + EUT + Earphone (Battery Status: >98%) |
| Mode 7b | | AC/DC Adapter (9V/2A) + EUT + Earphone (Battery Status: <1%) |
| Mode 8b | | AC/DC Adapter (9V/2A) + EUT + Earphone (Battery Status: 50%) |
| Mode 9b | | AC/DC Adapter (9V/2A) + EUT + Earphone (Battery Status: >98%) |
| Mode 7c | | AC/DC Adapter (5V/3A) + EUT + Earphone (Battery Status: <1%) |
| Mode 8c | | AC/DC Adapter (5V/3A) + EUT + Earphone (Battery Status: 50%) |
| Mode 9c | | AC/DC Adapter (5V/3A) + EUT + Earphone (Battery Status: >98%) |
| Mode 10a | ANT 4 | AC/DC Adapter (9V/3A) + EUT + Watch (Battery Status: <1%) |
| Mode 11a | | AC/DC Adapter (9V/3A) + EUT + Watch (Battery Status: 50%) |
| Mode 12a | | AC/DC Adapter (9V/3A) + EUT + Watch (Battery Status: >98%) |
| Mode 10b | | AC/DC Adapter (9V/2A) + EUT + Watch (Battery Status: <1%) |
| Mode 11b | | AC/DC Adapter (9V/2A) + EUT + Watch (Battery Status: 50%) |
| Mode 12b | | AC/DC Adapter (9V/2A) + EUT + Watch (Battery Status: >98%) |
| Mode 10c | | AC/DC Adapter (5V/3A) + EUT + Watch (Battery Status: <1%) |
| Mode 11c | | AC/DC Adapter (5V/3A) + EUT + Watch (Battery Status: 50%) |
| Mode 12c | | AC/DC Adapter (5V/3A) + EUT + Watch (Battery Status: >98%) |



| Test Modes: | Test Coil: | Description: |
|-------------|---------------------|--|
| Mode 13a | ANT 1 + ANT 2 | AC/DC Adapter (9V/3A) + EUT + Phone1 + Phone2 (Battery Status: <1%) |
| Mode 14a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Phone2 (Battery Status: 50%) |
| Mode 15a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Phone2 (Battery Status: >98%) |
| Mode 13b | ANT 1 + ANT 2 | AC/DC Adapter (9V/2A) + EUT + Phone1 + Phone2 (Battery Status: <1%) |
| Mode 14b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Phone2 (Battery Status: 50%) |
| Mode 15b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Phone2 (Battery Status: >98%) |
| Mode 13c | ANT 1 + ANT 2 | AC/DC Adapter (5V/3A) + EUT + Phone1 + Phone2 (Battery Status: <1%) |
| Mode 14c | | AC/DC Adapter (5V/3A) + EUT + Phone1 + Phone2 (Battery Status: 50%) |
| Mode 15c | | AC/DC Adapter (5V/3A) + EUT + Phone1 + Phone2 (Battery Status: >98%) |
| Mode 16a | ANT 1 + ANT 3 | AC/DC Adapter (9V/3A) + EUT + Phone1 + Earphone (Battery Status: <1%) |
| Mode 17a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Earphone (Battery Status: 50%) |
| Mode 18a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Earphone (Battery Status: >98%) |
| Mode 16b | ANT 1 + ANT 3 | AC/DC Adapter (9V/2A) + EUT + Phone1 + Earphone (Battery Status: <1%) |
| Mode 17b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Earphone (Battery Status: 50%) |
| Mode 18b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Earphone (Battery Status: >98%) |
| Mode 16c | ANT 1 + ANT 3 | AC/DC Adapter (5V/3A) + EUT + Phone1 + Earphone (Battery Status: <1%) |
| Mode 17c | | AC/DC Adapter (5V/3A) + EUT + Phone1 + Earphone (Battery Status: 50%) |
| Mode 18c | | AC/DC Adapter (5V/3A) + EUT + Phone1 + Earphone (Battery Status: >98%) |
| Mode 19a | ANT 1 + ANT 4 | AC/DC Adapter (9V/3A) + EUT + Phone1 + Watch (Battery Status: <1%) |
| Mode 20a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Watch (Battery Status: 50%) |
| Mode 21a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Watch (Battery Status: >98%) |
| Mode 19b | ANT 1 + ANT 4 | AC/DC Adapter (9V/2A) + EUT + Phone1 + Watch (Battery Status: <1%) |
| Mode 20b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Watch (Battery Status: 50%) |
| Mode 21b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Watch (Battery Status: >98%) |
| Mode 19c | ANT 1 + ANT 4 | AC/DC Adapter (5V/3A) + EUT + Phone1 + Watch (Battery Status: <1%) |
| Mode 20c | | AC/DC Adapter (5V/3A) + EUT + Phone1 + Watch (Battery Status: 50%) |
| Mode 21c | | AC/DC Adapter (5V/3A) + EUT + Phone1 + Watch (Battery Status: >98%) |
| Mode 22a | ANT 2 + ANT 3 | AC/DC Adapter (9V/3A) + EUT + Phone2 + Earphone (Battery Status: <1%) |
| Mode 23a | | AC/DC Adapter (9V/3A) + EUT + Phone2 + Earphone (Battery Status: 50%) |
| Mode 24a | | AC/DC Adapter (9V/3A) + EUT + Phone2 + Earphone (Battery Status: >98%) |
| Mode 22b | ANT 2 + ANT 3 | AC/DC Adapter (9V/2A) + EUT + Phone2 + Earphone (Battery Status: <1%) |
| Mode 23b | | AC/DC Adapter (9V/2A) + EUT + Phone2 + Earphone (Battery Status: 50%) |
| Mode 24b | | AC/DC Adapter (9V/2A) + EUT + Phone2 + Earphone (Battery Status: >98%) |
| Mode 22c | ANT 2 + ANT 3 | AC/DC Adapter (5V/3A) + EUT + Phone2 + Earphone (Battery Status: <1%) |
| Mode 23c | | AC/DC Adapter (5V/3A) + EUT + Phone2 + Earphone (Battery Status: 50%) |
| Mode 24c | | AC/DC Adapter (5V/3A) + EUT + Phone2 + Earphone (Battery Status: >98%) |



| Test Modes: | Test Coil: | Description: |
|-------------|---|--|
| Mode 25a | ANT 3 + ANT 4 | AC/DC Adapter (9V/3A) + EUT + Phone2 + Watch (Battery Status: <1%) |
| Mode 26a | | AC/DC Adapter (9V/3A) + EUT + Phone2 + Watch (Battery Status: 50%) |
| Mode 27a | | AC/DC Adapter (9V/3A) + EUT + Phone2 + Watch (Battery Status: >98%) |
| Mode 25b | ANT 3 + ANT 4 | AC/DC Adapter (9V/2A) + EUT + Phone2 + Watch (Battery Status: <1%) |
| Mode 26b | | AC/DC Adapter (9V/2A) + EUT + Phone2 + Watch (Battery Status: 50%) |
| Mode 27b | | AC/DC Adapter (9V/2A) + EUT + Phone2 + Watch (Battery Status: >98%) |
| Mode 25c | ANT 3 + ANT 4 | AC/DC Adapter (5V/3A) + EUT + Phone2 + Watch (Battery Status: <1%) |
| Mode 26c | | AC/DC Adapter (5V/3A) + EUT + Phone2 + Watch (Battery Status: 50%) |
| Mode 27c | | AC/DC Adapter (5V/3A) + EUT + Phone2 + Watch (Battery Status: >98%) |
| Mode 28a | ANT 3 + ANT 4 | AC/DC Adapter (9V/3A) + EUT + Earphone + Watch (Battery Status: <1%) |
| Mode 29a | | AC/DC Adapter (9V/3A) + EUT + Earphone + Watch (Battery Status: 50%) |
| Mode 30a | | AC/DC Adapter (9V/3A) + EUT + Earphone + Watch (Battery Status: >98%) |
| Mode 28b | ANT 3 + ANT 4 | AC/DC Adapter (9V/2A) + EUT + Earphone + Watch (Battery Status: <1%) |
| Mode 29b | | AC/DC Adapter (9V/2A) + EUT + Earphone + Watch (Battery Status: 50%) |
| Mode 30b | | AC/DC Adapter (9V/2A) + EUT + Earphone + Watch (Battery Status: >98%) |
| Mode 28c | ANT 3 + ANT 4 | AC/DC Adapter (5V/3A) + EUT + Earphone + Watch (Battery Status: <1%) |
| Mode 29c | | AC/DC Adapter (5V/3A) + EUT + Earphone + Watch (Battery Status: 50%) |
| Mode 30c | | AC/DC Adapter (5V/3A) + EUT + Earphone + Watch (Battery Status: >98%) |
| Mode 31a | ANT 1 + ANT 2 + ANT 3 + ANT 4 | AC/DC Adapter (9V/3A) + EUT + Phone1 + Phone2 + Earphone + Watch (Battery Status: <1%) |
| Mode 32a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Phone2 + Earphone + Watch (Battery Status: 50%) |
| Mode 33a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Phone2 + Earphone + Watch (Battery Status: >98%) |
| Mode 31ab | ANT 1 + ANT 2 + ANT 3 + ANT 4 | AC/DC Adapter (9V/2A) + EUT + Phone1 + Phone2 + Earphone + Watch (Battery Status: <1%) |
| Mode 32b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Phone2 + Earphone + Watch (Battery Status: 50%) |
| Mode 33b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Phone2 + Earphone + Watch (Battery Status: >98%) |



b.EUT works in folded mode:

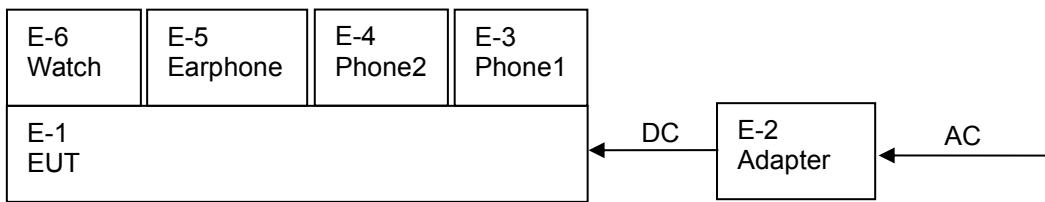
| Test Modes: | Test Coil: | Description: |
|-------------|---------------------|--|
| Mode 34a | ANT 1 | AC/DC Adapter (9V/3A) + EUT + Phone1 (Battery Status: <1%) |
| Mode 35a | | AC/DC Adapter (9V/3A) + EUT + Phone1 (Battery Status: 50%) |
| Mode 36a | | AC/DC Adapter (9V/3A) + EUT + Phone1 (Battery Status: >98%) |
| Mode 34b | | AC/DC Adapter (9V/2A) + EUT + Phone1 (Battery Status: <1%) |
| Mode 35b | | AC/DC Adapter (9V/2A) + EUT + Phone1 (Battery Status: 50%) |
| Mode 36b | | AC/DC Adapter (9V/2A) + EUT + Phone1 (Battery Status: >98%) |
| Mode 34c | | AC/DC Adapter (5V/3A) + EUT + Phone1 (Battery Status: <1%) |
| Mode 35c | | AC/DC Adapter (5V/3A) + EUT + Phone1 (Battery Status: 50%) |
| Mode 36c | | AC/DC Adapter (5V/3A) + EUT + Phone1 (Battery Status: >98%) |
| Mode 37a | ANT 2 | AC/DC Adapter (9V/3A) + EUT + Phone2 (Battery Status: <1%) |
| Mode 38a | | AC/DC Adapter (9V/3A) + EUT + Phone2 (Battery Status: 50%) |
| Mode 39a | | AC/DC Adapter (9V/3A) + EUT + Phone2 (Battery Status: >98%) |
| Mode 37b | | AC/DC Adapter (9V/2A) + EUT + Phone2 (Battery Status: <1%) |
| Mode 38b | | AC/DC Adapter (9V/2A) + EUT + Phone2 (Battery Status: 50%) |
| Mode 39b | | AC/DC Adapter (9V/2A) + EUT + Phone2 (Battery Status: >98%) |
| Mode 37c | | AC/DC Adapter (5V/3A) + EUT + Phone2 (Battery Status: <1%) |
| Mode 38c | | AC/DC Adapter (5V/3A) + EUT + Phone2 (Battery Status: 50%) |
| Mode 39c | | AC/DC Adapter (5V/3A) + EUT + Phone2 (Battery Status: >98%) |
| Mode 40a | ANT 1 + ANT 2 | AC/DC Adapter (9V/3A) + EUT + Phone1 + Phone2 (Battery Status: <1%) |
| Mode 41a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Phone2 (Battery Status: 50%) |
| Mode 42a | | AC/DC Adapter (9V/3A) + EUT + Phone1 + Phone2 (Battery Status: >98%) |
| Mode 40b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Phone2 (Battery Status: <1%) |
| Mode 41b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Phone2 (Battery Status: 50%) |
| Mode 42b | | AC/DC Adapter (9V/2A) + EUT + Phone1 + Phone2 (Battery Status: >98%) |
| Mode 40c | | AC/DC Adapter (5V/3A) + EUT + Phone1 + Phone2 (Battery Status: <1%) |
| Mode 41c | | AC/DC Adapter (5V/3A) + EUT + Phone1 + Phone2 (Battery Status: 50%) |
| Mode 42c | | AC/DC Adapter (5V/3A) + EUT + Phone1 + Phone2 (Battery Status: >98%) |



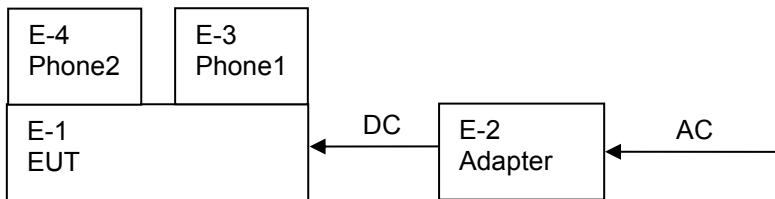
3.3 BLOCK DIAGRAM OF EUT CONFIGURATION

Conducted Emission

a. EUT mode of operation before folding:

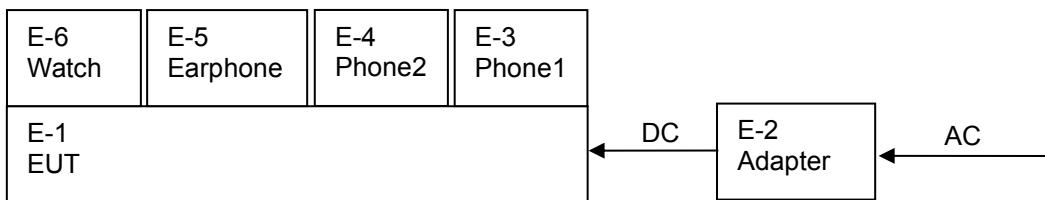


b. EUT works in folded mode:

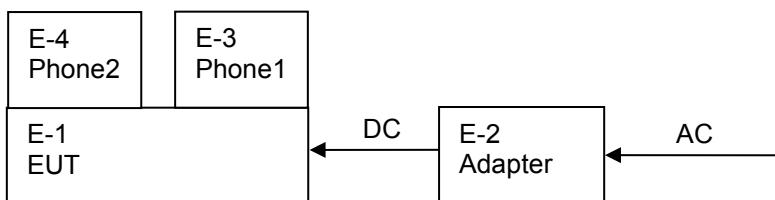


Radiated Emission

a. EUT mode of operation before folding:



b. EUT works in folded mode:





3.4 TEST CONDITIONS

Temperature: 23~26°C

Relative Humidity: 54~63 %

3.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-------------------------------|-----------|----------------|------------|-----------|
| E-1 | Four in one wireless charging | N/A | OC21 | N/A | EUT |
| E-2 | AC/DC Adapter | SAMSUNG | EP-T4510 | N/A | Auxiliary |
| E-3 | Phone1 | Apple | iPhone 16 Pro | N/A | Auxiliary |
| E-4 | Phone2 | Apple | iPhone 13 Pro | N/A | Auxiliary |
| E-5 | Earphone | Apple | Airpods 2 | N/A | Auxiliary |
| E-6 | Watch | Apple | iWatch S2 | N/A | Auxiliary |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|---------------------|
| C1 | NO | NO | 0.8M | DC cable unshielded |
| | | | | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



3.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation test, Band-edge test and 6db bandwidth test equipment

| Item | Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|----------------------------------|-----------------|-----------|------------|------------------|------------------|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | Agilent | E4408B | MY50140780 | Nov. 01, 2024 | Oct. 31, 2025 |
| 2 | Test Receiver (9kHz-7GHz) | R&S | ESRP7 | 101393 | Nov. 01, 2024 | Oct. 31, 2025 |
| 3 | Bilog Antenna (30MHz-1GHz) | R&S | VULB9162 | 00306 | Nov. 01, 2024 | Oct. 31, 2025 |
| 4 | Horn Antenna (1GHz-18GHz) | Schwarzbeck | BBHA9120D | 02139 | Nov. 01, 2024 | Oct. 31, 2025 |
| 5 | Horn Antenna (18GHz-40GHz) | A.H. Systems | SAS-574 | 588 | Nov. 01, 2024 | Oct. 31, 2025 |
| 6 | Amplifier (9kHz-6GHz) | Schwarzbeck | BBV9743B | 00153 | Nov. 01, 2024 | Oct. 31, 2025 |
| 7 | Amplifier (1GHz-18GHz) | EMEC | EM01G8GA | 00270 | Nov. 01, 2024 | Oct. 31, 2025 |
| 8 | Amplifier (18GHz-40GHz) | Quanjuda | DLE-161 | 97 | Nov. 01, 2024 | Oct. 31, 2025 |
| 9 | Loop Antenna (9kHz-30MHz) | Schwarzbeck | FMZB1519B | 00014 | Nov. 01, 2024 | Oct. 31, 2025 |
| 10 | RF cables1 (9kHz-1GHz) | ChengYu | 966 | 004 | Nov. 01, 2024 | Oct. 31, 2025 |
| 11 | RF cables2 (1GHz-40GHz) | ChengYu | 966 | 003 | Nov. 01, 2024 | Oct. 31, 2025 |
| 12 | Antenna connector | Florida RF Labs | N/A | RF 01# | Nov. 01, 2024 | Oct. 31, 2025 |
| 13 | Power probe | KEYSIGHT | U2021XA | MY55210018 | Nov. 01, 2024 | Oct. 31, 2025 |
| 14 | Signal Analyzer 9kHz-26.5GHz | Agilent | N9020A | MY55370280 | Nov. 01, 2024 | Oct. 31, 2025 |
| 15 | Test Receiver 20kHz-40GHz | R&S | ESU 40 | 100376 | Nov. 01, 2024 | Oct. 31, 2025 |
| 16 | D.C. Power Supply | LongWei | PS-305D | 010964729 | Nov. 01, 2024 | Oct. 31, 2025 |

Conduction Test equipment

| Item | Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|------------------|
| 1 | 843 Shielded Room | YIHENG | 843 Room | 843 | Nov. 05, 2023 | Nov. 04, 2026 |
| 2 | EMI Receiver | R&S | ESR | 101421 | Nov. 01, 2024 | Oct. 31, 2025 |
| 3 | LISN | R&S | ENV216 | 102417 | Nov. 01, 2024 | Oct. 31, 2025 |
| 4 | 843 Cable 1# | ChengYu | CE Cable | 001 | Nov. 01, 2024 | Oct. 31, 2025 |

Other

| Item | Name | Manufacturer | Model | Software version |
|------|------------------------------|--------------|---------|------------------|
| 1 | EMC Conduction Test System | FALA | EZ_EMC | EMC-CON 3A1.1 |
| 2 | EMC radiation test system | FALA | EZ_EMC | FA-03A2 |
| 3 | RF test system | MAIWEI | MTS8310 | 2.0.0.0 |
| 4 | RF communication test system | MAIWEI | MTS8200 | 2.0.0.0 |



4. CONDUCTED EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

| | |
|-----------------------|--------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.207 |
| Test Method: | ANSI C63.10:2013 |
| Test Frequency Range: | 150KHz to 30MHz |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto |

4.1.1 POWER LINE CONDUCTED EMISSION Limits

| FREQUENCY (MHz) | Limit (dBuV) | | Standard |
|-----------------|--------------|-----------|----------|
| | Quas-peak | Average | |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 60.00 | 50.00 | FCC |

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

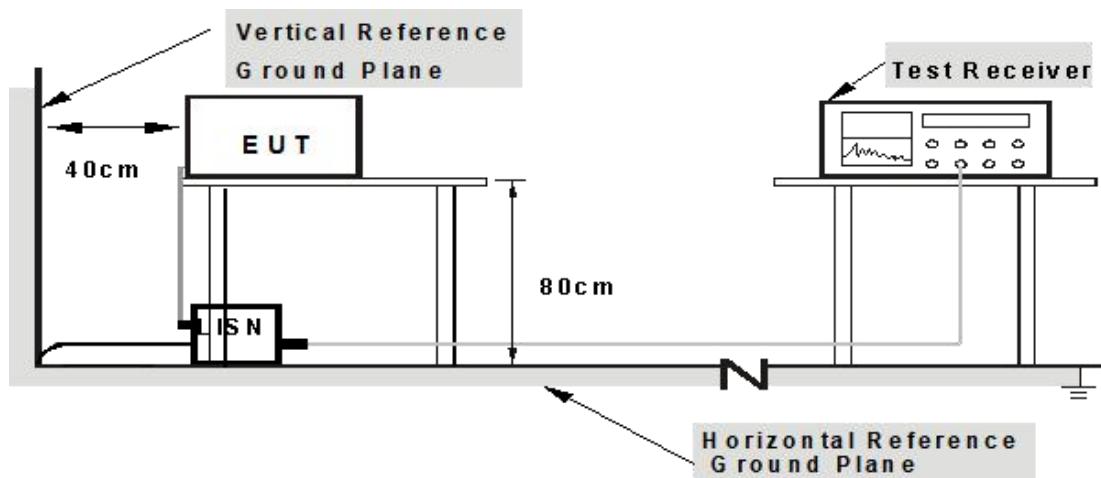
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

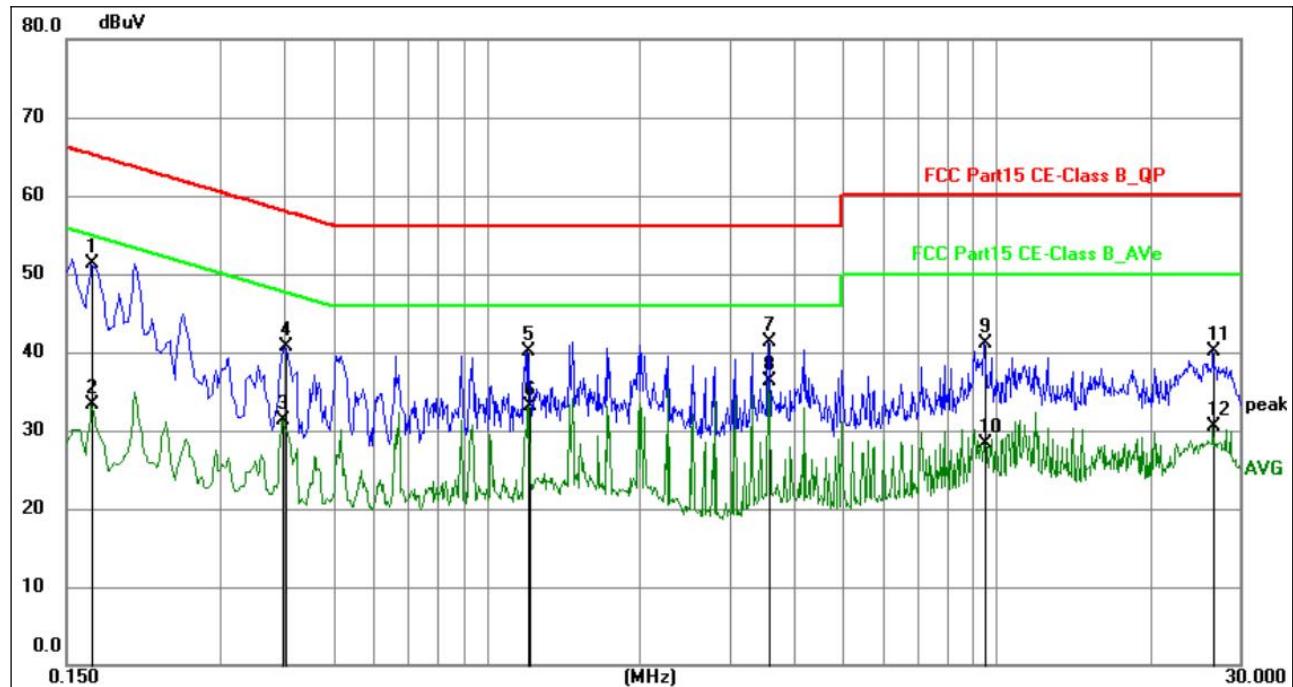
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



4.1.6 TEST RESULT

| | | | |
|----------------|--------------|---------------------|-----------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101kPa | Phase : | L |
| Test Voltage : | AC 120V/60Hz | Test Mode : | Mode 31aa |



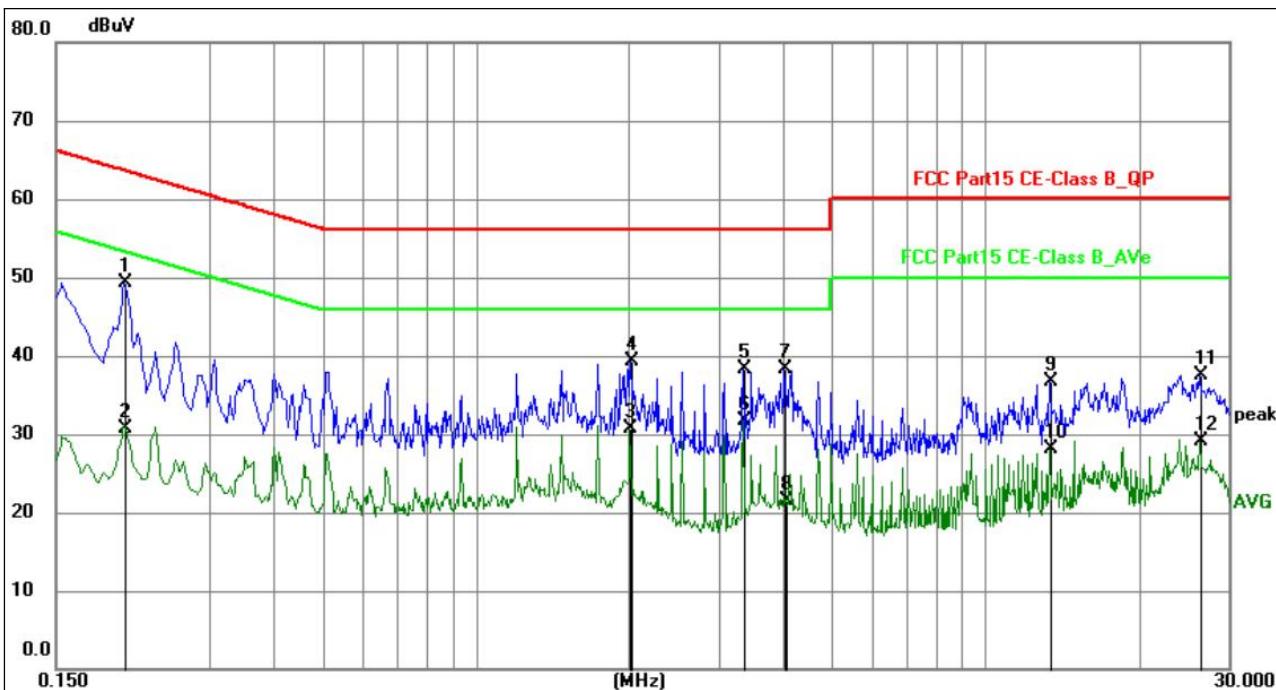
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 | 0.1680 | 31.05 | 20.25 | 51.30 | 65.06 | -13.76 | QP | P | |
| 2 | 0.1680 | 13.15 | 20.25 | 33.40 | 55.06 | -21.66 | AVG | P | |
| 3 | 0.3975 | 10.92 | 20.32 | 31.24 | 47.91 | -16.67 | AVG | P | |
| 4 | 0.4020 | 20.40 | 20.32 | 40.72 | 57.81 | -17.09 | QP | P | |
| 5 | 1.2074 | 19.75 | 20.30 | 40.05 | 56.00 | -15.95 | QP | P | |
| 6 | 1.2119 | 12.83 | 20.30 | 33.13 | 46.00 | -12.87 | AVG | P | |
| 7 | 3.5790 | 21.02 | 20.34 | 41.36 | 56.00 | -14.64 | QP | P | |
| 8 | 3.5790 | 15.91 | 20.34 | 36.25 | 46.00 | -9.75 | AVG | P | |
| 9 | 9.4515 | 20.76 | 20.44 | 41.20 | 60.00 | -18.80 | QP | P | |
| 10 | 9.4515 | 7.94 | 20.44 | 28.38 | 50.00 | -21.62 | AVG | P | |
| 11 | 26.6640 | 19.48 | 20.67 | 40.15 | 60.00 | -19.85 | QP | P | |
| 12 | 26.6640 | 9.76 | 20.67 | 30.43 | 50.00 | -19.57 | AVG | P | |

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi - Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Final Level = Reading level + Correct Factor.
- 4.Correct Factor = Lsfn factor+ Cable loss factor + limiter factor.
- 5.Margin = Measurement Level-Limit.
- 6.All test modes were tested, with only the worst Mode 31a recorded.



| | | | |
|----------------|--------------|---------------------|----------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101kPa | Phase : | N |
| Test Voltage : | AC 120V/60Hz | Test Mode : | Mode 31a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|--------|
| 1 | 0.2040 | 28.93 | 20.37 | 49.30 | 63.45 | -14.15 | QP | P | |
| 2 | 0.2050 | 10.40 | 20.37 | 30.77 | 53.41 | -22.64 | AVG | P | |
| 3 | 2.0084 | 10.36 | 20.31 | 30.67 | 46.00 | -15.33 | AVG | P | |
| 4 | 2.0129 | 18.94 | 20.31 | 39.25 | 56.00 | -16.75 | QP | P | |
| 5 | 3.3495 | 18.06 | 20.32 | 38.38 | 56.00 | -17.62 | QP | P | |
| 6 | 3.3495 | 11.44 | 20.32 | 31.76 | 46.00 | -14.24 | AVG | P | |
| 7 | 4.0380 | 17.88 | 20.33 | 38.21 | 56.00 | -17.79 | QP | P | |
| 8 | 4.0695 | 1.08 | 20.34 | 21.42 | 46.00 | -24.58 | AVG | P | |
| 9 | 13.3980 | 16.27 | 20.49 | 36.76 | 60.00 | -23.24 | QP | P | |
| 10 | 13.3980 | 7.65 | 20.49 | 28.14 | 50.00 | -21.86 | AVG | P | |
| 11 | 26.2950 | 16.91 | 20.69 | 37.60 | 60.00 | -22.40 | QP | P | |
| 12 | 26.2950 | 8.33 | 20.69 | 29.02 | 50.00 | -20.98 | AVG | P | |

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi - Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Line factor + Cable loss factor + limiter factor.
5. Margin = Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 31a recorded.



5. RADIATED EMISSION MEASUREMENT

| Test Requirement: | FCC Part15 C Section 15.209 | | | | |
|-----------------------|-----------------------------|------------|--------|--------|------------|
| Test Method: | ANSI C63.10:2013 | | | | |
| Test Frequency Range: | 9kHz to 1GHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| | 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | | Peak | 1MHz | 10Hz | Average |

5.1 RADIATED EMISSION LIMITS

Limits for frequency below 30MHz

| Frequency | Limit (uV/m) | Measurement Distance(m) | Remark |
|-------------|--------------|-------------------------|------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 | Quasi-peak Value |
| 0.490-1.705 | 24000/F(kHz) | 30 | Quasi-peak Value |
| 1.705-30 | 30 | 30 | Quasi-peak Value |

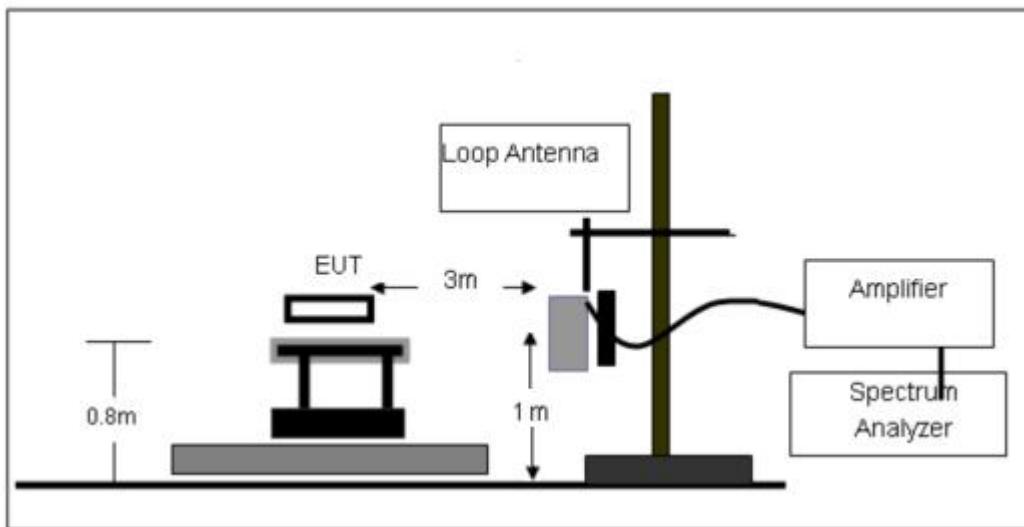
Limits for frequency Above 30MHz

| Frequency | Limit (dBuV/m @3m) | Remark |
|---------------|--------------------|------------------|
| 30MHz-88MHz | 40.00 | Quasi-peak Value |
| 88MHz-216MHz | 43.50 | Quasi-peak Value |
| 216MHz-960MHz | 46.00 | Quasi-peak Value |
| 960MHz-1GHz | 54.00 | Quasi-peak Value |
| Above 1GHz | 54.00 | Average Value |
| | 74.00 | Peak Value |

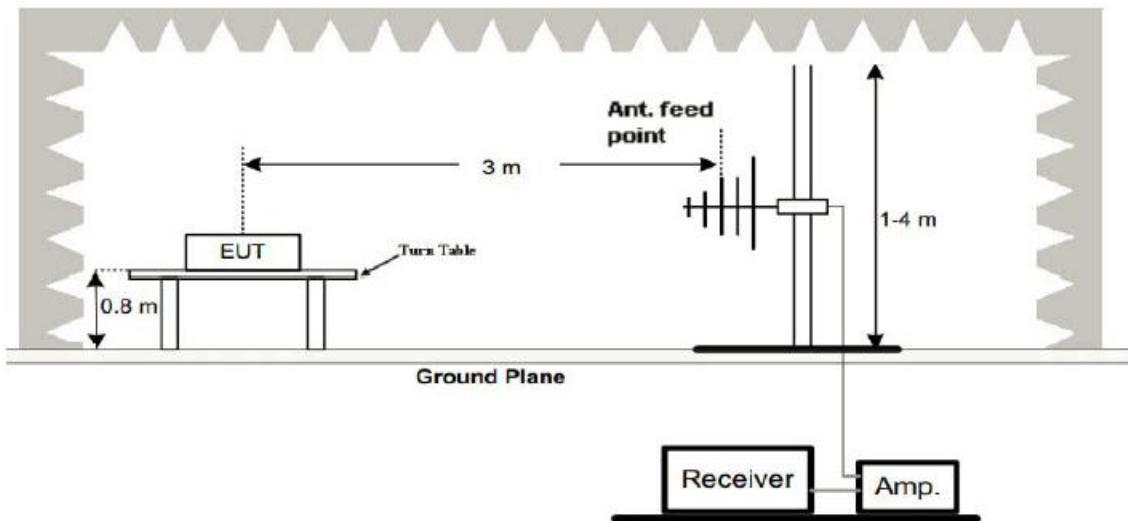


5.2 ANECHOIC CHAMBER TEST SETUP DIAGRAM

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.



5.3 TEST PROCEDURE

Below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meterssemi-anechoic chamber. The table was rotated 360 degrees to determine the position of thehighest radiation.
- b. The EUT was set 3 meters away from the interference-receiving loop antenna and in thecenter of a loop antenna, which was mounted on the top of a variable-height antenna tower.
- c. For each suspected emission, the EUT was arranged to its worst case, the height ofinterference-receiving loop antenna centre is 1 meter above the ground, and the rotatable tablewas turned from 0 degrees to 360 degrees to find the maximum reading.
- d. Both coaxial (loop plane perpendicular to the ground plane and to the measurement axis) andcoplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis)polarizations of the antenna are set to make the measurement.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth withmaximum hold mode when the test frequency is below 1 GHz.

30MHz-1GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meterssemi-anechoic chamber. The table was rotated 360 degrees to determine the position of thehighest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mountedon the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four metersabove the ground to determine the maximum value of the field strength. Both horizontal andvertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antennawas tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth withmaximum hold mode when the test frequency is below 1 GHz.

5.4 DEVIATION FROM TEST STANDARD

No deviation

5.5 TEST RESULT

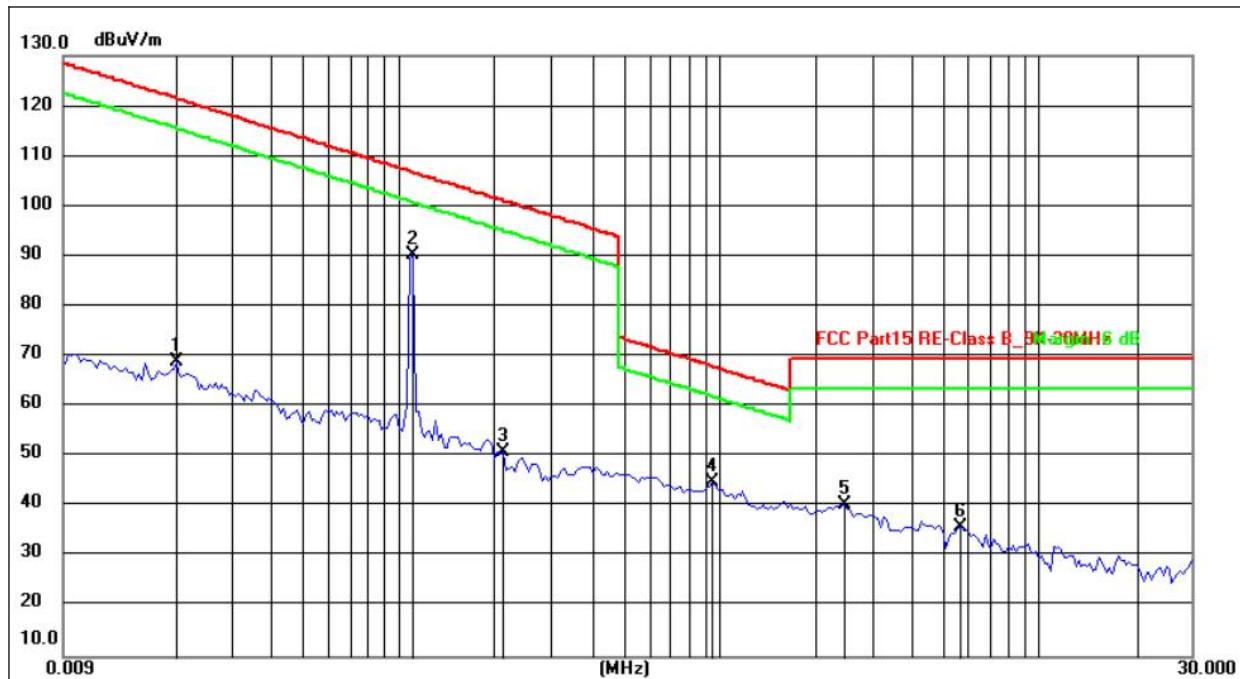
Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80
Limit dBuV/m @3m = Limit dBuV/m @30m + 40



ANT-1 - 9 kHz~30 MHz

| | | | |
|----------------|---------------------------------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | coaxial |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 1a |



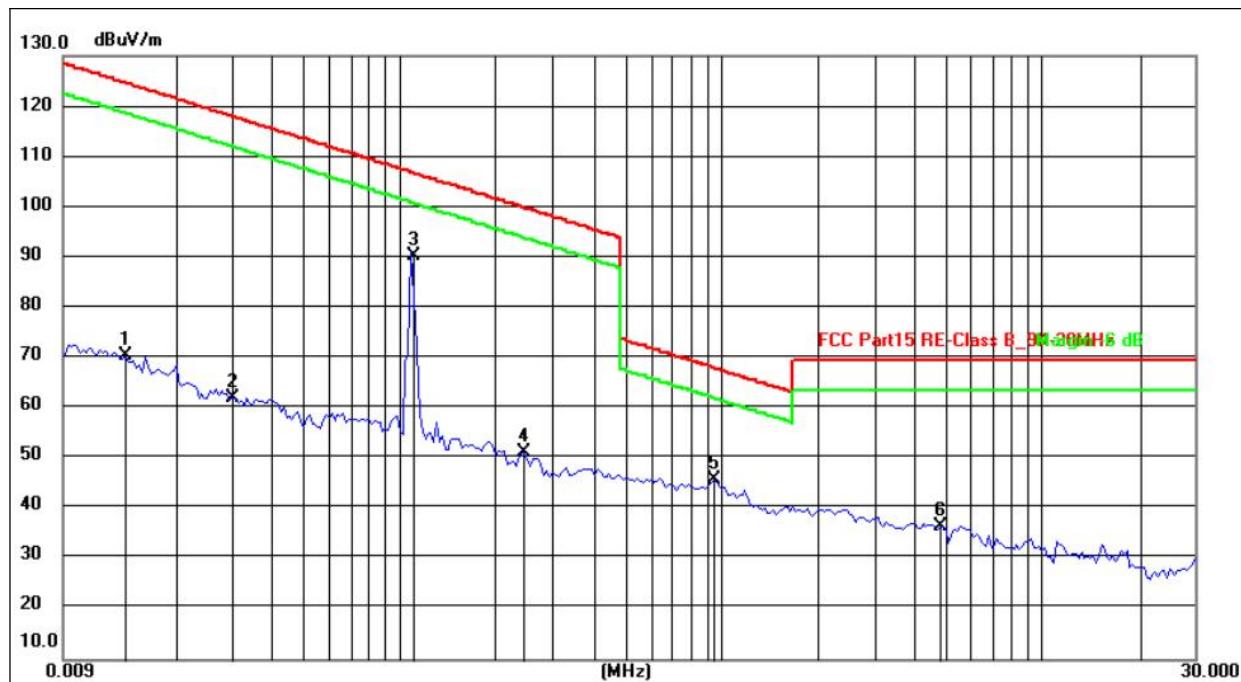
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0200 | 48.56 | 20.45 | 69.01 | 121.58 | -52.57 | peak |
| 2 | 0.1110 | 70.35 | 19.82 | 90.17 | 106.78 | -16.61 | peak |
| 3 | 0.2127 | 30.91 | 20.09 | 51.00 | 101.05 | -50.05 | peak |
| 4 | 0.9546 | 24.86 | 20.04 | 44.90 | 68.01 | -23.11 | peak |
| 5 | 2.4763 | 20.69 | 19.73 | 40.42 | 69.54 | -29.12 | peak |
| 6 | 5.6875 | 16.42 | 19.41 | 35.83 | 69.54 | -33.71 | peak |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 1a recorded.



| | | | |
|----------------|---------------------------------|---------------------|----------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | Coplanar |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 1a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0140 | 49.85 | 20.51 | 70.36 | 124.68 | -54.32 | peak |
| 2 | 0.0303 | 41.81 | 20.21 | 62.02 | 117.98 | -55.96 | peak |
| 3 | 0.1110 | 70.39 | 19.82 | 90.21 | 106.78 | -16.57 | peak |
| 4 | 0.2452 | 31.20 | 20.10 | 51.30 | 99.81 | -48.51 | peak |
| 5 | 0.9546 | 25.86 | 20.04 | 45.90 | 68.01 | -22.11 | peak |
| 6 | 4.8357 | 17.14 | 19.49 | 36.63 | 69.54 | -32.91 | peak |

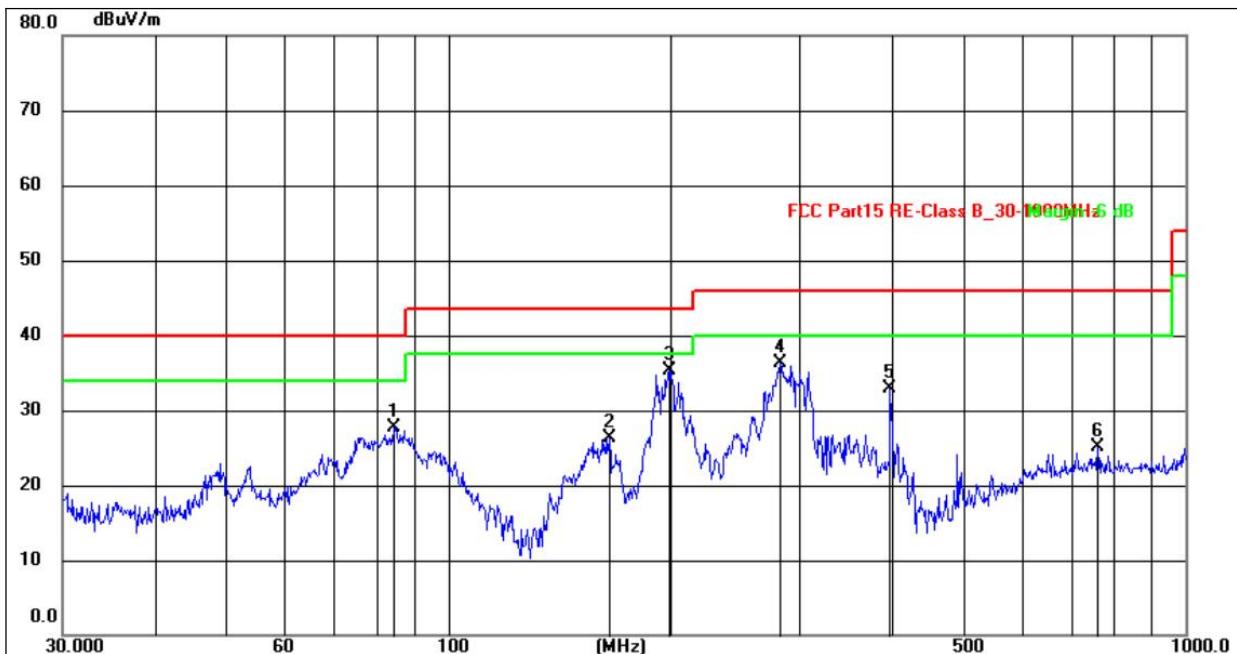
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 1a recorded.



ANT-1 - 30MHz-1GHz

| | | | |
|---------------|---------------------------------|--------------------|------------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | Horizontal |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 1a |



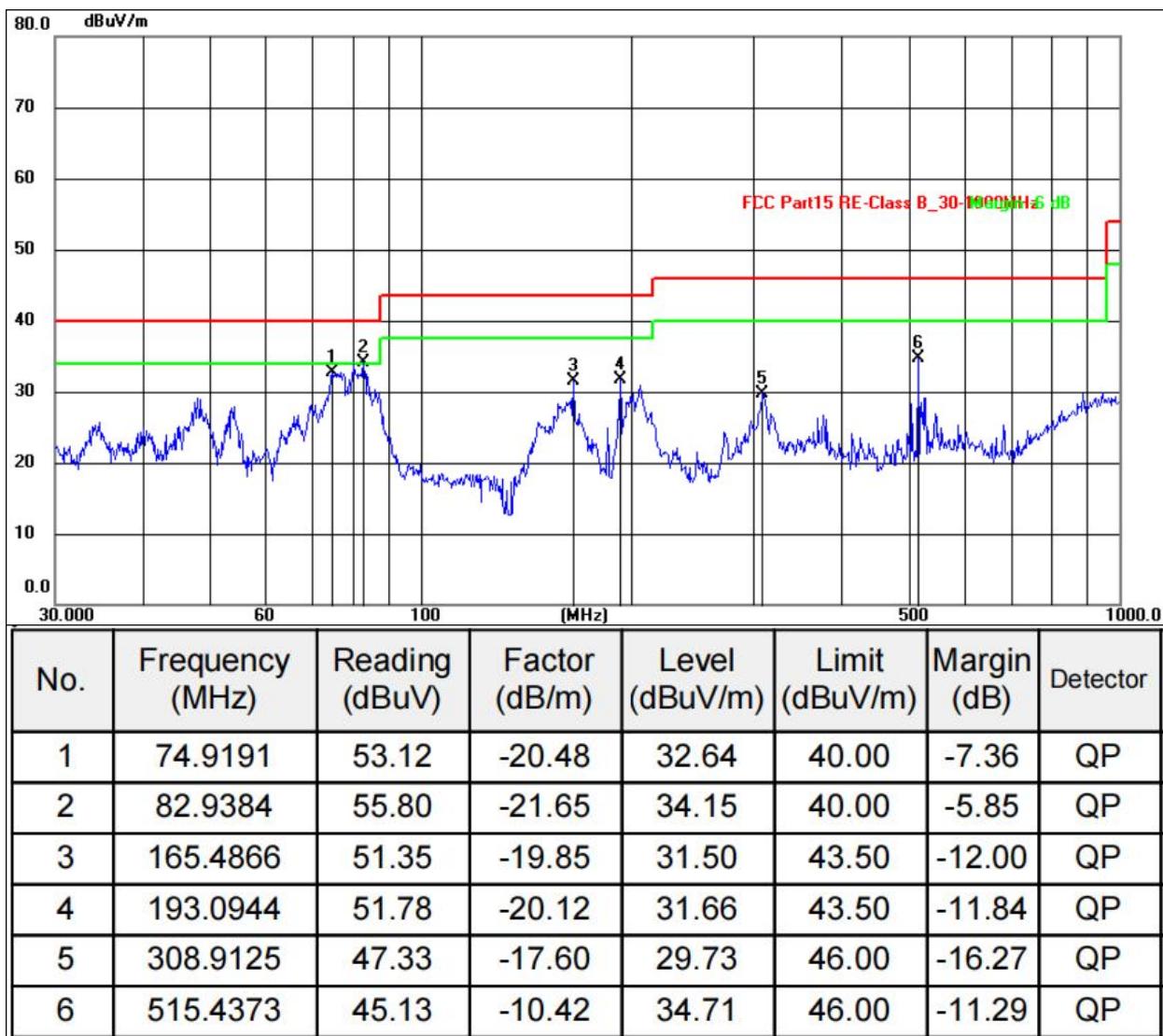
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 84.4054 | 47.37 | -19.67 | 27.70 | 40.00 | -12.30 | QP |
| 2 | 165.4866 | 42.70 | -16.40 | 26.30 | 43.50 | -17.20 | QP |
| 3 | 199.2855 | 53.82 | -18.46 | 35.36 | 43.50 | -8.14 | QP |
| 4 | 281.9945 | 50.45 | -14.20 | 36.25 | 46.00 | -9.75 | QP |
| 5 | 397.6333 | 48.92 | -16.07 | 32.85 | 46.00 | -13.15 | QP |
| 6 | 760.7033 | 31.68 | -6.57 | 25.11 | 46.00 | -20.89 | QP |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 1a recorded.



| | | | |
|---------------|---------------------------------|--------------------|----------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101kPa | Polarization: | Vertical |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 1a |



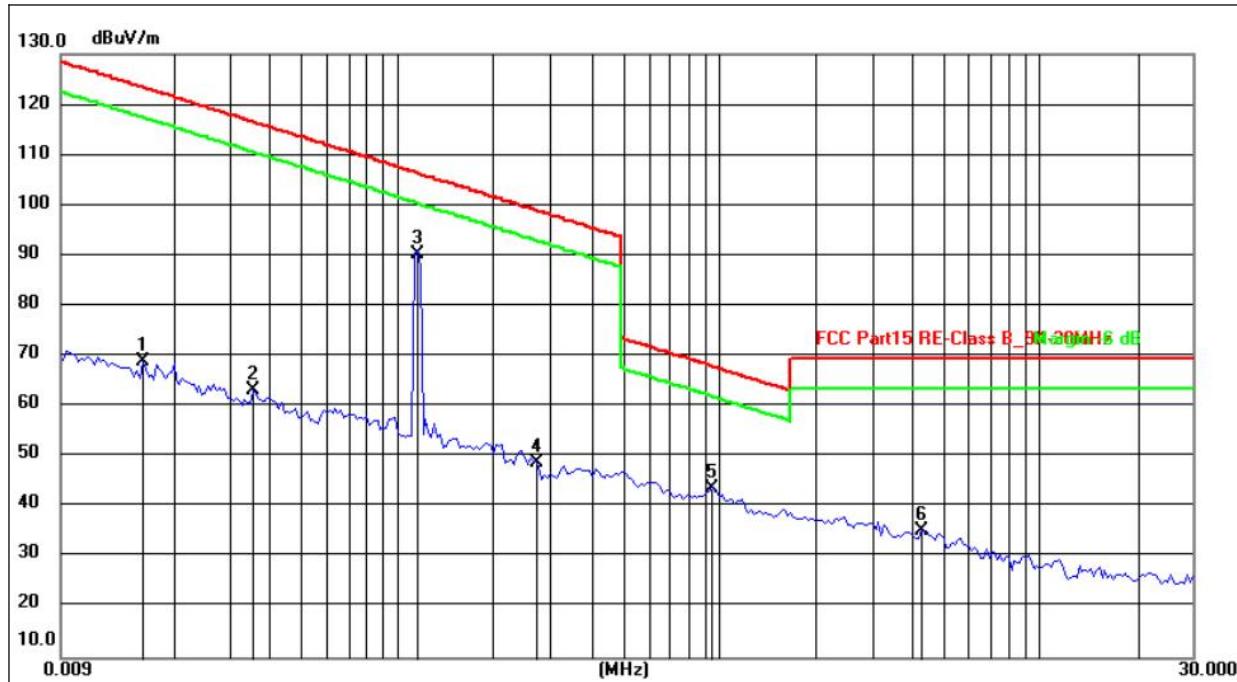
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 1a recorded.



ANT-2 - 9 kHz~30 MHz

| | | | |
|----------------|---------------------------------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | coaxial |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 4a |



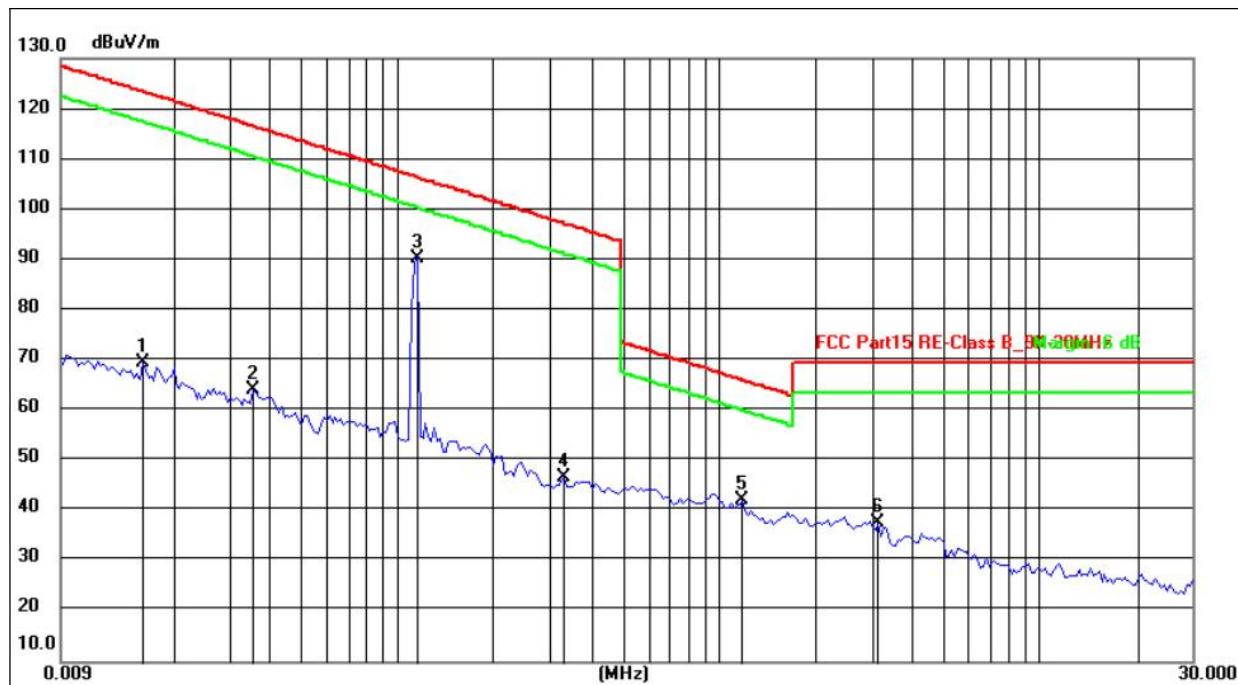
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0160 | 48.57 | 20.49 | 69.06 | 123.52 | -54.46 | peak |
| 2 | 0.0357 | 43.11 | 20.08 | 63.19 | 116.55 | -53.36 | peak |
| 3 | 0.1150 | 70.51 | 19.85 | 90.36 | 106.39 | -16.03 | peak |
| 4 | 0.2714 | 28.59 | 20.11 | 48.70 | 98.93 | -50.23 | peak |
| 5 | 0.9546 | 23.86 | 20.04 | 43.90 | 68.01 | -24.11 | peak |
| 6 | 4.2816 | 15.96 | 19.54 | 35.50 | 69.54 | -34.04 | peak |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 4a recorded.



| | | | |
|----------------|---------------------------------|---------------------|----------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | Coplanar |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 4a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0160 | 49.07 | 20.49 | 69.56 | 123.52 | -53.96 | peak |
| 2 | 0.0357 | 44.11 | 20.08 | 64.19 | 116.55 | -52.36 | peak |
| 3 | 0.1150 | 70.46 | 19.85 | 90.31 | 106.39 | -16.08 | peak |
| 4 | 0.3326 | 26.59 | 20.13 | 46.72 | 97.17 | -50.45 | peak |
| 5 | 1.1933 | 22.36 | 19.92 | 42.28 | 66.07 | -23.79 | peak |
| 6 | 3.1587 | 18.01 | 19.64 | 37.65 | 69.54 | -31.89 | peak |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 4a recorded.



ANT-2 - 30MHz-1GHz

| | | | |
|---------------|---------------------------------|--------------------|------------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | Horizontal |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 4a |



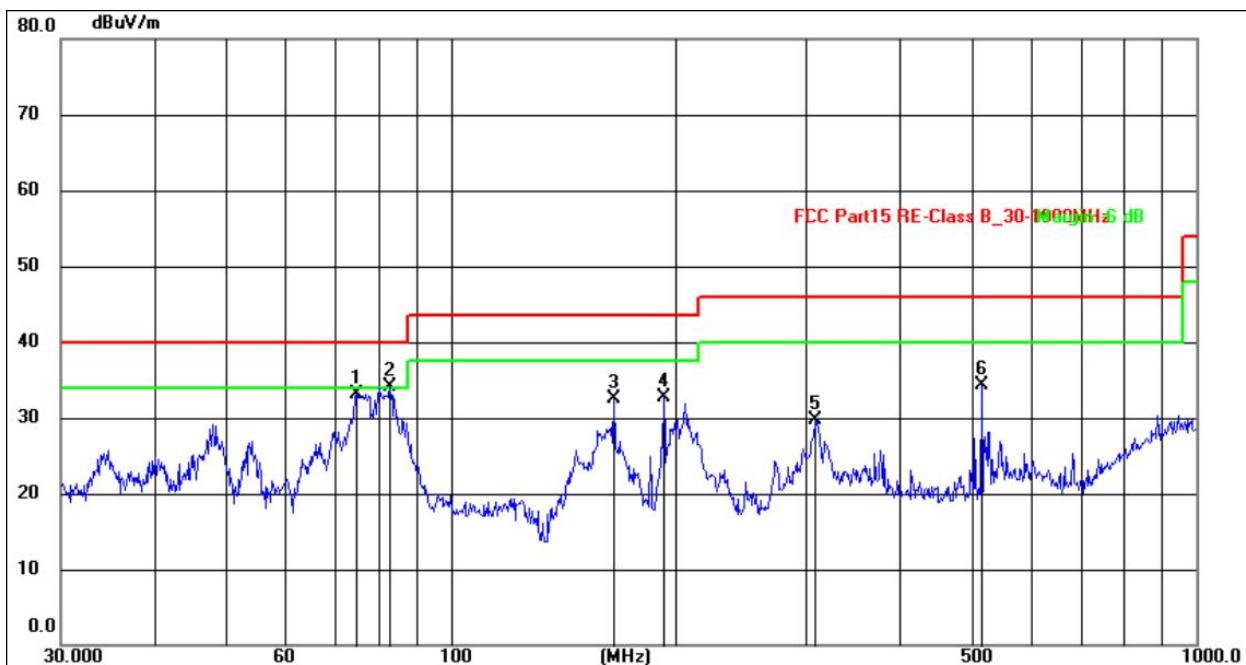
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 84.4054 | 48.37 | -19.67 | 28.70 | 40.00 | -11.30 | QP |
| 2 | 165.4866 | 43.70 | -16.40 | 27.30 | 43.50 | -16.20 | QP |
| 3 | 199.2855 | 54.32 | -18.46 | 35.86 | 43.50 | -7.64 | QP |
| 4 | 281.9945 | 50.95 | -14.20 | 36.75 | 46.00 | -9.25 | QP |
| 5 | 397.6333 | 48.92 | -16.07 | 32.85 | 46.00 | -13.15 | QP |
| 6 | 760.7033 | 31.68 | -6.57 | 25.11 | 46.00 | -20.89 | QP |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 4a recorded.



| | | | |
|---------------|---------------------------------|--------------------|----------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101kPa | Polarization: | Vertical |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 4a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 74.9191 | 53.62 | -20.48 | 33.14 | 40.00 | -6.86 | QP |
| 2 | 82.9384 | 55.80 | -21.65 | 34.15 | 40.00 | -5.85 | QP |
| 3 | 165.4866 | 52.35 | -19.85 | 32.50 | 43.50 | -11.00 | QP |
| 4 | 193.0944 | 52.78 | -20.12 | 32.66 | 43.50 | -10.84 | QP |
| 5 | 308.9125 | 47.33 | -17.60 | 29.73 | 46.00 | -16.27 | QP |
| 6 | 515.4373 | 44.63 | -10.42 | 34.21 | 46.00 | -11.79 | QP |

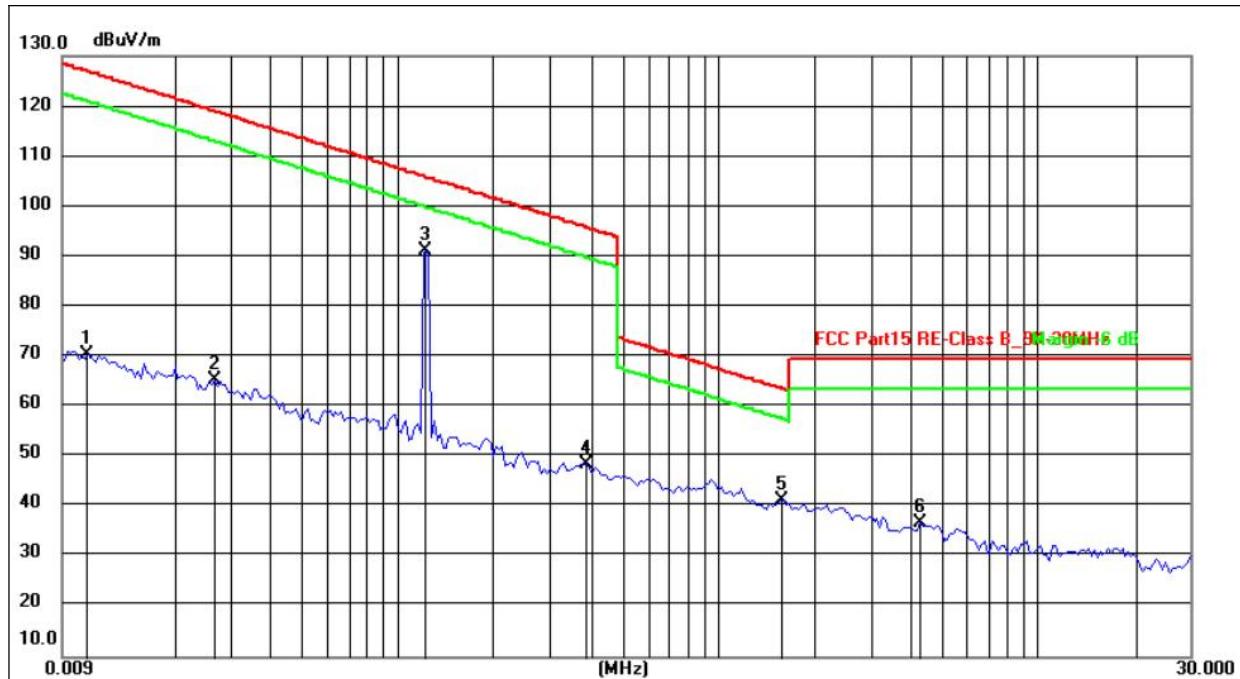
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 4a recorded.



ANT3 - 9 kHz~30 MHz

| | | | |
|----------------|---------------------------------|---------------------|---------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | coaxial |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 7a |



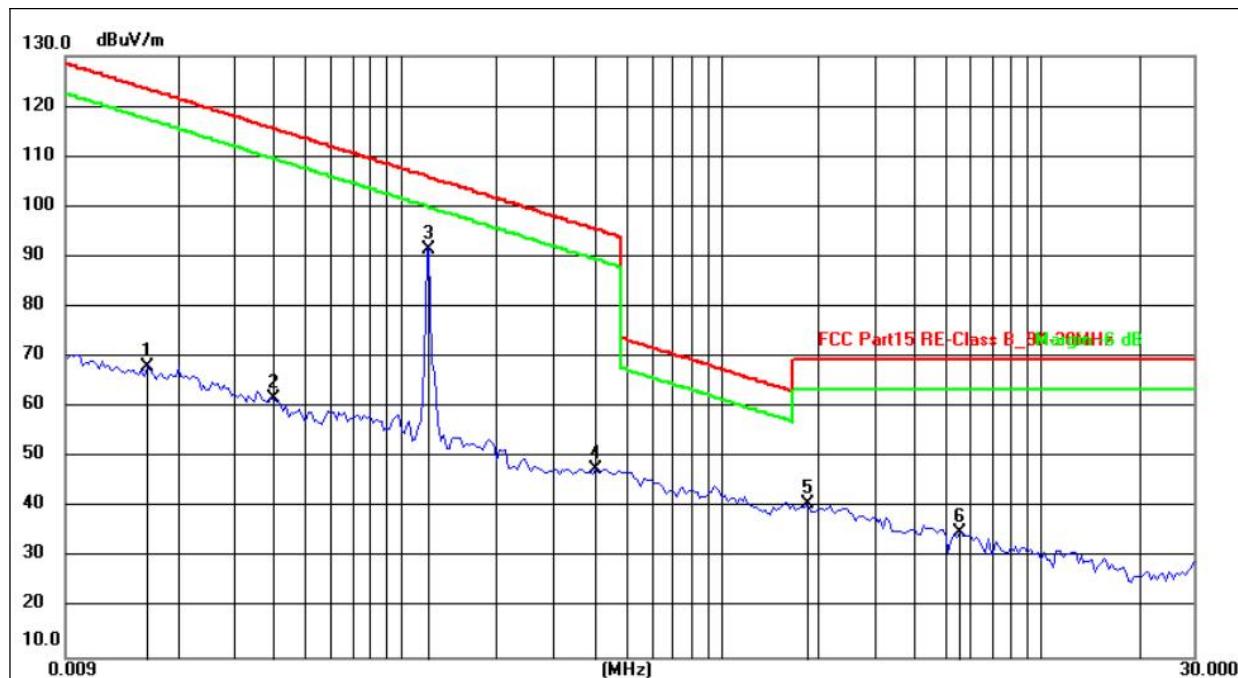
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0108 | 49.84 | 20.54 | 70.38 | 126.94 | -56.56 | peak |
| 2 | 0.0269 | 45.05 | 20.29 | 65.34 | 119.01 | -53.67 | peak |
| 3 | 0.1220 | 71.34 | 19.89 | 91.23 | 105.88 | -14.65 | peak |
| 4 | 0.3911 | 28.29 | 20.16 | 48.45 | 95.76 | -47.31 | peak |
| 5 | 1.5846 | 21.56 | 19.86 | 41.42 | 63.61 | -22.19 | peak |
| 6 | 4.2816 | 17.46 | 19.54 | 37.00 | 69.54 | -32.54 | peak |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 7a recorded.



| | | | |
|----------------|---------------------------------|---------------------|----------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | Coplanar |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 7a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0160 | 47.57 | 20.49 | 68.06 | 123.52 | -55.46 | peak |
| 2 | 0.0403 | 41.81 | 19.98 | 61.79 | 115.50 | -53.71 | peak |
| 3 | 0.1220 | 71.42 | 19.89 | 91.31 | 105.88 | -14.57 | peak |
| 4 | 0.4072 | 27.60 | 20.16 | 47.76 | 95.41 | -47.65 | peak |
| 5 | 1.8643 | 20.79 | 19.82 | 40.61 | 69.54 | -28.93 | peak |
| 6 | 5.5734 | 15.61 | 19.41 | 35.02 | 69.54 | -34.52 | peak |

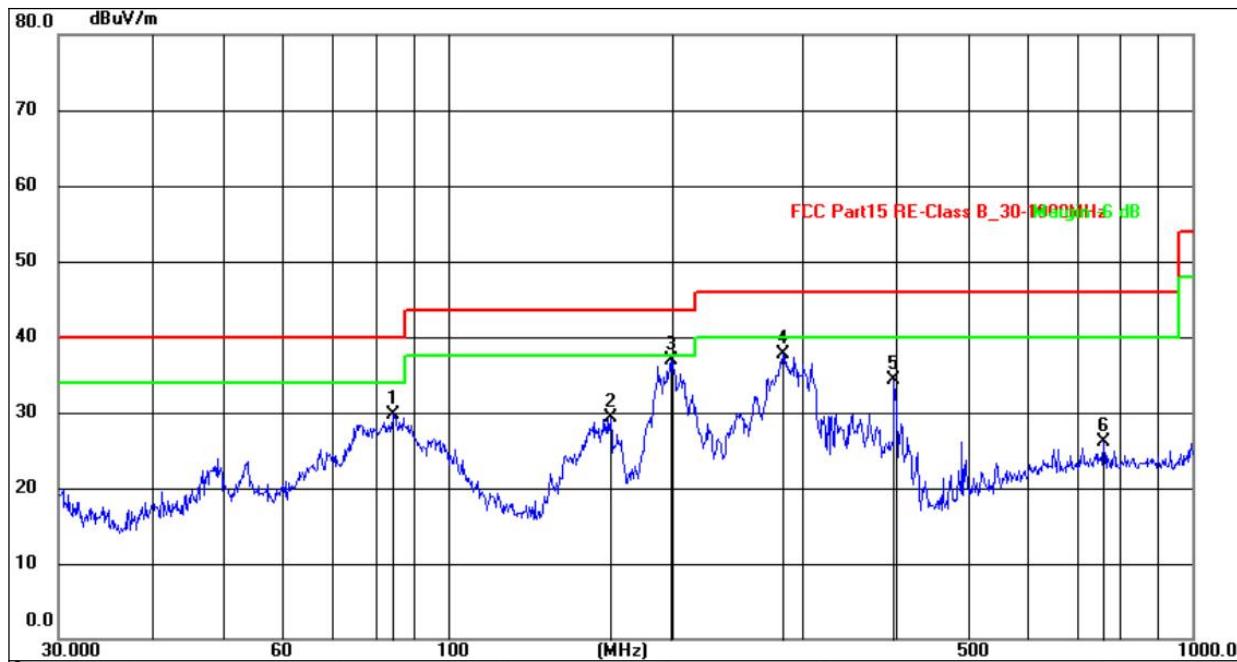
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 7a recorded.



ANT-3 - 30MHz-1GHz

| | | | |
|---------------|---------------------------------|--------------------|------------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | Horizontal |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 7a |



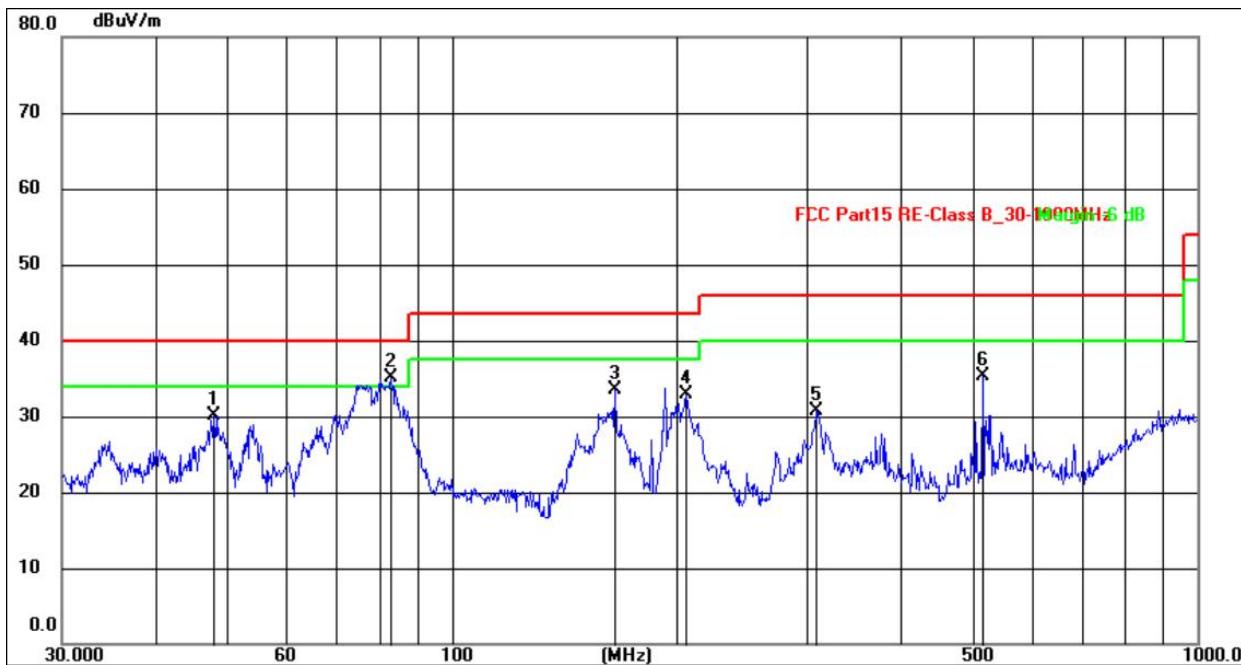
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 84.4054 | 49.37 | -19.67 | 29.70 | 40.00 | -10.30 | QP |
| 2 | 165.4866 | 45.70 | -16.40 | 29.30 | 43.50 | -14.20 | QP |
| 3 | 199.2855 | 55.32 | -18.46 | 36.86 | 43.50 | -6.64 | QP |
| 4 | 281.9945 | 51.95 | -14.20 | 37.75 | 46.00 | -8.25 | QP |
| 5 | 397.6333 | 50.42 | -16.07 | 34.35 | 46.00 | -11.65 | QP |
| 6 | 760.7033 | 32.68 | -6.57 | 26.11 | 46.00 | -19.89 | QP |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 7a recorded.



| | | | |
|---------------|---------------------------------|--------------------|----------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101kPa | Polarization: | Vertical |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 7a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 47.9938 | 47.18 | -17.09 | 30.09 | 40.00 | -9.91 | QP |
| 2 | 82.9384 | 56.80 | -21.65 | 35.15 | 40.00 | -4.85 | QP |
| 3 | 165.4866 | 53.35 | -19.85 | 33.50 | 43.50 | -10.00 | QP |
| 4 | 206.3975 | 53.28 | -20.29 | 32.99 | 43.50 | -10.51 | QP |
| 5 | 308.9125 | 48.33 | -17.60 | 30.73 | 46.00 | -15.27 | QP |
| 6 | 515.4373 | 45.63 | -10.42 | 35.21 | 46.00 | -10.79 | QP |

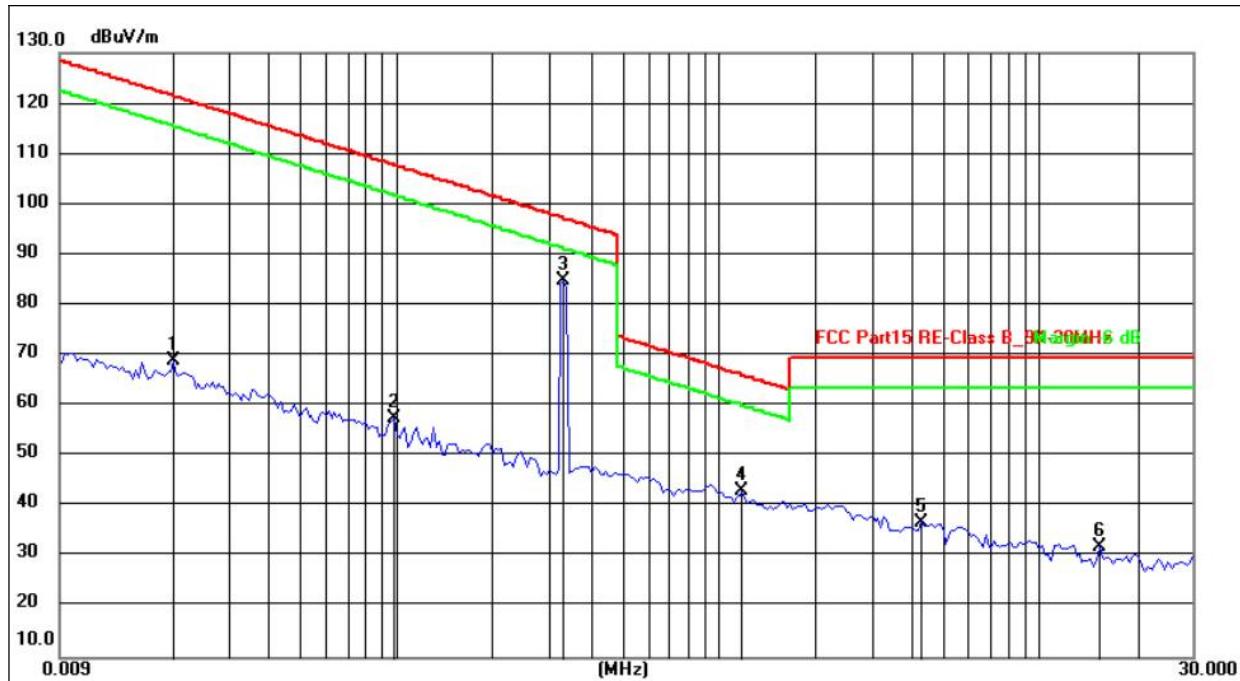
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 7a recorded.



ANT4 - 9 kHz~30 MHz

| | | | |
|----------------|---------------------------------|---------------------|----------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | coaxial |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 10a |



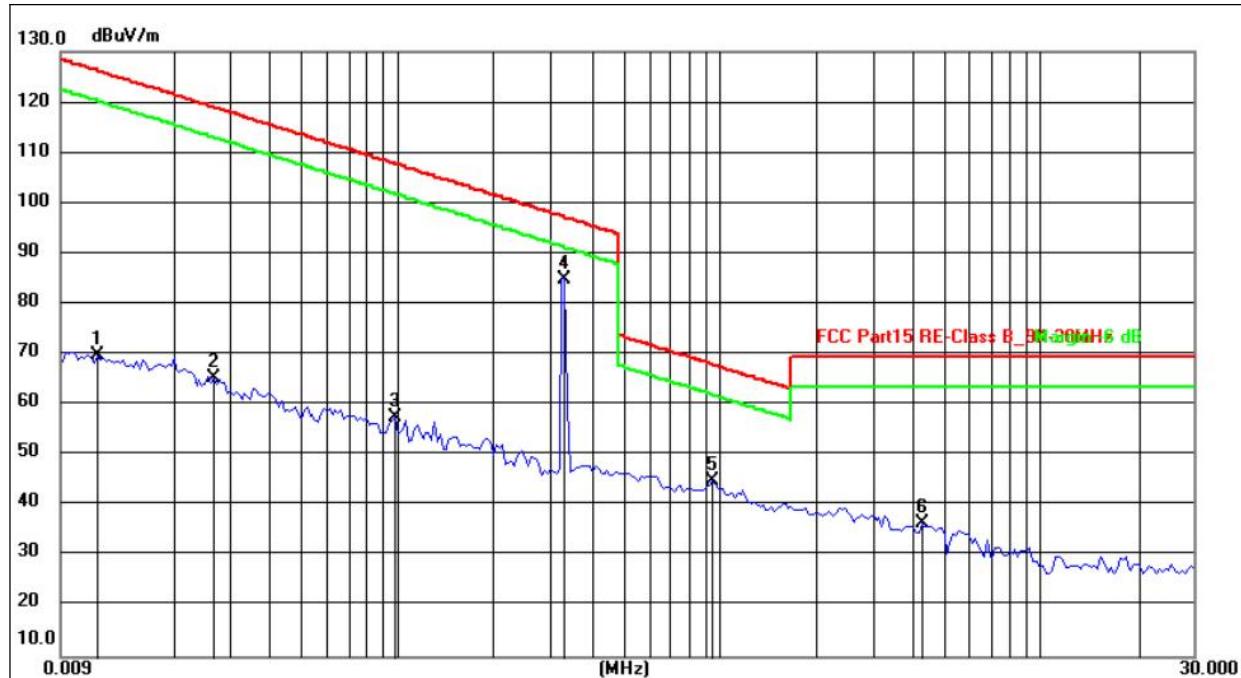
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0200 | 48.56 | 20.45 | 69.01 | 121.58 | -52.57 | peak |
| 2 | 0.0985 | 37.72 | 19.77 | 57.49 | 107.74 | -50.25 | peak |
| 3 | 0.3270 | 64.59 | 20.13 | 84.72 | 97.31 | -12.59 | peak |
| 4 | 1.1933 | 23.36 | 19.92 | 43.28 | 66.07 | -22.79 | peak |
| 5 | 4.2816 | 17.46 | 19.54 | 37.00 | 69.54 | -32.54 | peak |
| 6 | 15.3632 | 13.20 | 18.89 | 32.09 | 69.54 | -37.45 | peak |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 10a recorded.



| | | | |
|----------------|---------------------------------|---------------------|----------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | Coplanar |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 10a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0117 | 49.23 | 20.53 | 69.76 | 126.24 | -56.48 | peak |
| 2 | 0.0269 | 45.05 | 20.29 | 65.34 | 119.01 | -53.67 | peak |
| 3 | 0.0985 | 37.72 | 19.77 | 57.49 | 107.74 | -50.25 | peak |
| 4 | 0.3270 | 64.68 | 20.13 | 84.81 | 97.31 | -12.50 | peak |
| 5 | 0.9546 | 24.86 | 20.04 | 44.90 | 68.01 | -23.11 | peak |
| 6 | 4.2816 | 16.96 | 19.54 | 36.50 | 69.54 | -33.04 | peak |

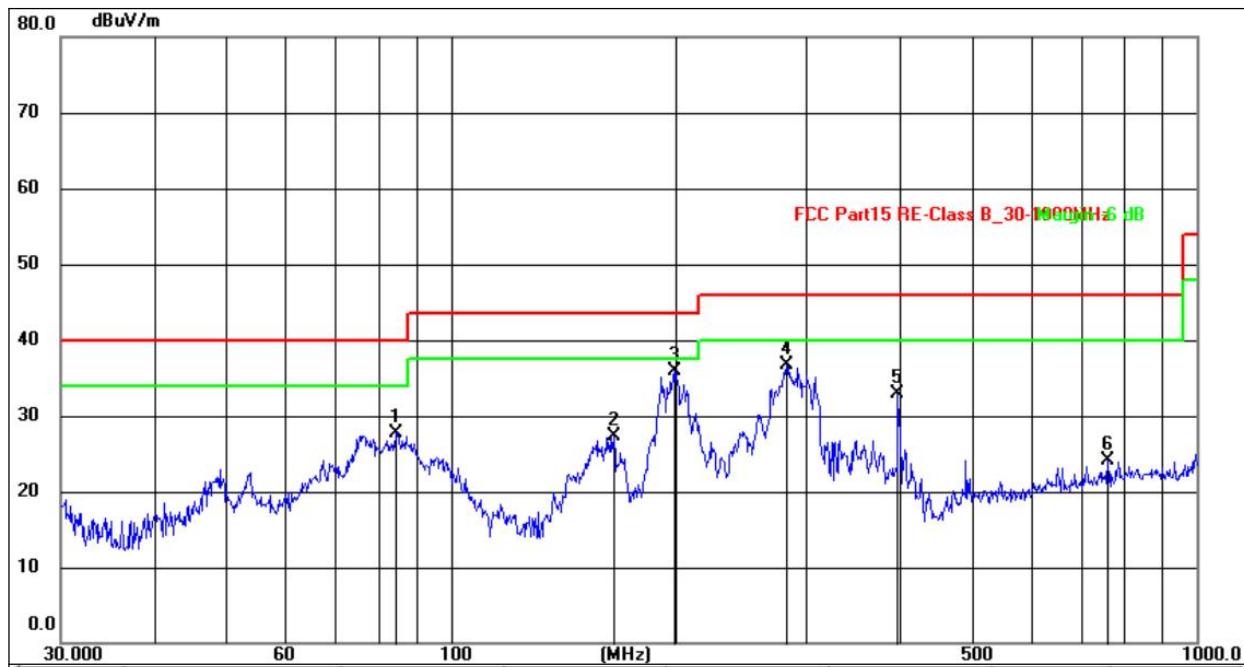
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 10a recorded.



ANT-4 - 30MHz-1GHz

| | | | |
|---------------|---------------------------------|--------------------|------------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | Horizontal |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 10a |



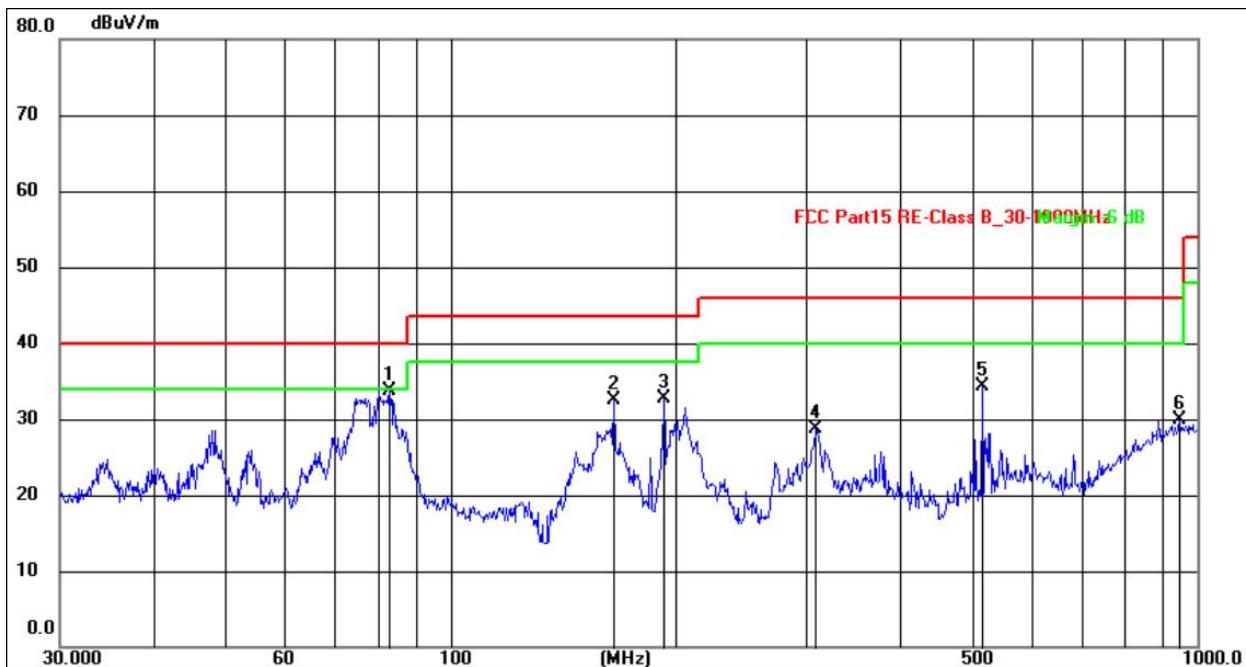
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 84.4054 | 47.37 | -19.67 | 27.70 | 40.00 | -12.30 | QP |
| 2 | 165.4866 | 43.70 | -16.40 | 27.30 | 43.50 | -16.20 | QP |
| 3 | 199.2855 | 54.32 | -18.46 | 35.86 | 43.50 | -7.64 | QP |
| 4 | 281.9945 | 50.95 | -14.20 | 36.75 | 46.00 | -9.25 | QP |
| 5 | 397.6333 | 48.92 | -16.07 | 32.85 | 46.00 | -13.15 | QP |
| 6 | 760.7033 | 30.68 | -6.57 | 24.11 | 46.00 | -21.89 | QP |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 10a recorded.



| | | | |
|---------------|---------------------------------|--------------------|----------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101kPa | Polarization: | Vertical |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 10a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 82.9384 | 55.30 | -21.65 | 33.65 | 40.00 | -6.35 | QP |
| 2 | 165.4866 | 52.35 | -19.85 | 32.50 | 43.50 | -11.00 | QP |
| 3 | 193.0944 | 52.78 | -20.12 | 32.66 | 43.50 | -10.84 | QP |
| 4 | 308.9125 | 46.33 | -17.60 | 28.73 | 46.00 | -17.27 | QP |
| 5 | 515.4373 | 44.63 | -10.42 | 34.21 | 46.00 | -11.79 | QP |
| 6 | 945.4400 | 30.05 | -0.19 | 29.86 | 46.00 | -16.14 | QP |

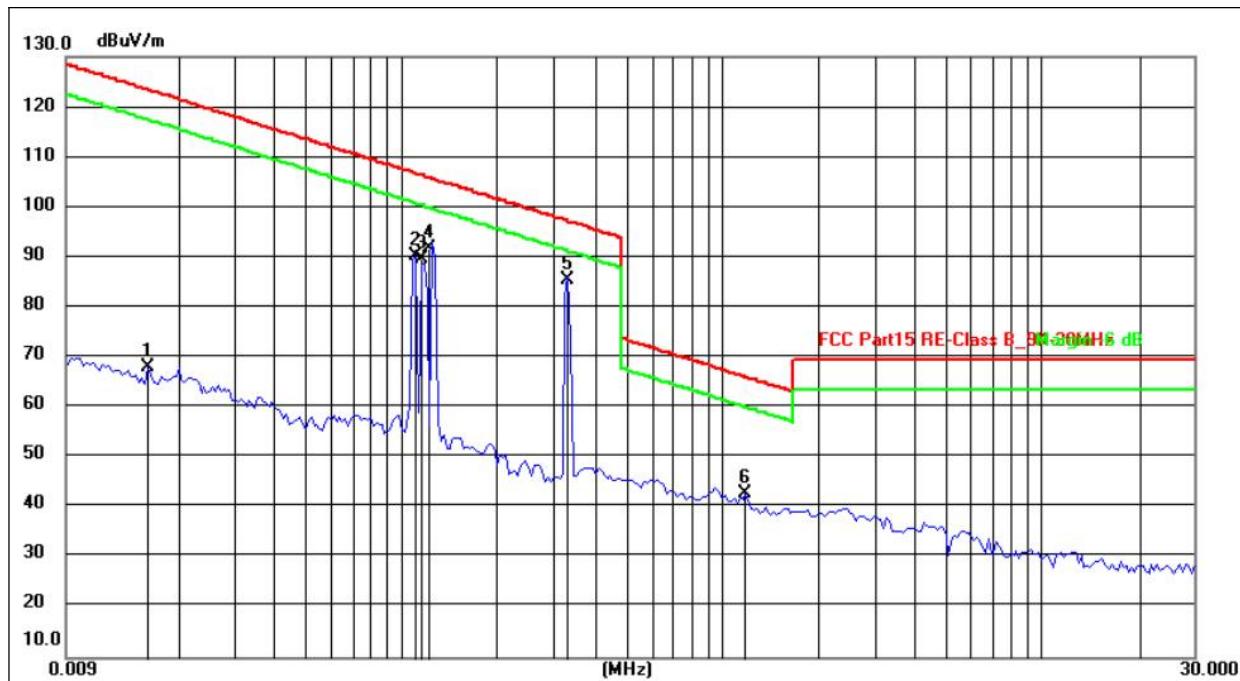
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 10a recorded.



ANT1+2+3+4 - 9 kHz~30 MHz

| | | | |
|----------------|---------------------------------|---------------------|----------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | coaxial |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 31a |



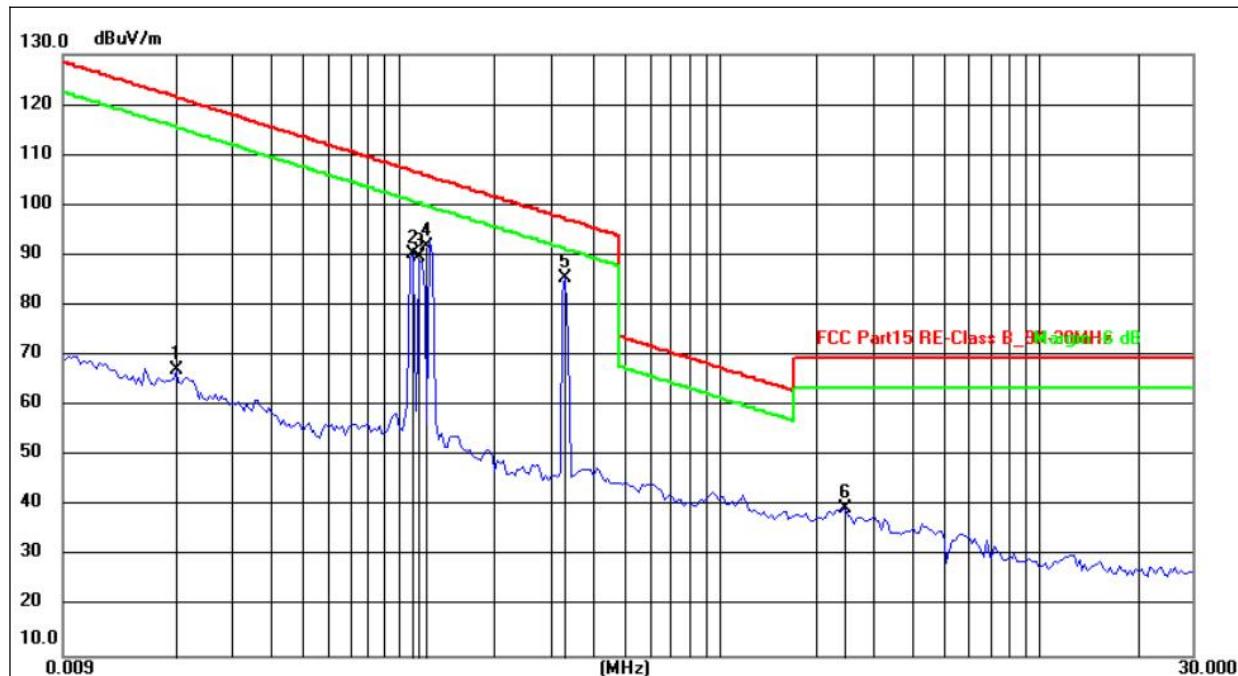
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0160 | 47.57 | 20.49 | 68.06 | 123.52 | -55.46 | peak |
| 2 | 0.1110 | 70.35 | 19.82 | 90.17 | 106.78 | -16.61 | peak |
| 3 | 0.1150 | 69.87 | 19.85 | 89.72 | 106.39 | -16.67 | peak |
| 4 | 0.1220 | 71.87 | 19.89 | 91.76 | 105.88 | -14.12 | peak |
| 5 | 0.3270 | 65.30 | 20.13 | 85.43 | 97.31 | -11.88 | peak |
| 6 | 1.1933 | 22.86 | 19.92 | 42.78 | 66.07 | -23.29 | peak |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 31a recorded.



| | | | |
|----------------|---------------------------------|---------------------|----------|
| Temperature : | 26°C | Relative Humidity : | 54% |
| Pressure : | 101 kPa | Polarization : | Coplanar |
| Test Voltage : | DC 9V From Adapter AC 120V/60Hz | Test Mode : | Mode 31a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 0.0200 | 46.56 | 20.45 | 67.01 | 121.58 | -54.57 | peak |
| 2 | 0.1110 | 70.39 | 19.82 | 90.21 | 106.78 | -16.57 | peak |
| 3 | 0.1150 | 69.89 | 19.85 | 89.74 | 106.39 | -16.65 | peak |
| 4 | 0.1220 | 71.78 | 19.89 | 91.67 | 105.88 | -14.21 | peak |
| 5 | 0.3270 | 65.36 | 20.13 | 85.49 | 97.31 | -11.82 | peak |
| 6 | 2.4763 | 19.69 | 19.73 | 39.42 | 69.54 | -30.12 | peak |

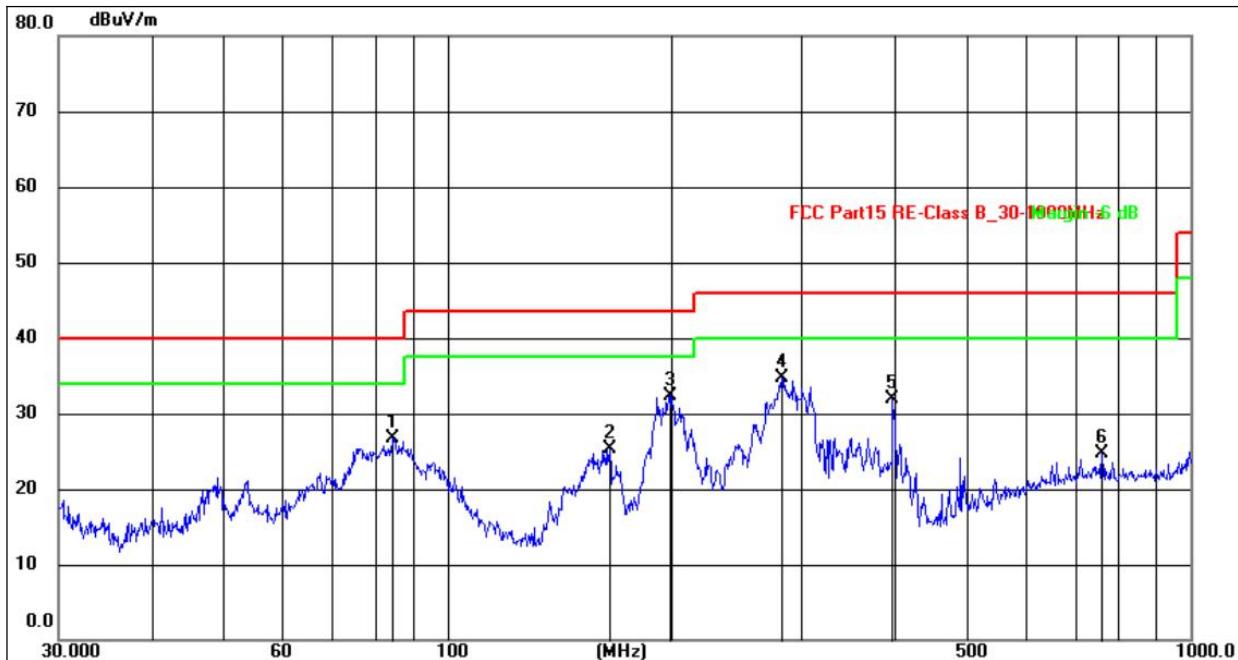
Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor + Cable loss factor - Amplifier factor.
5. Margin = Measurement Level - Limit.
6. All test modes were tested, with only the worst Mode 31a recorded.



ANT1+2+3+4 - 30MHz-1GHz

| | | | |
|---------------|---------------------------------|--------------------|------------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | Horizontal |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 31a |



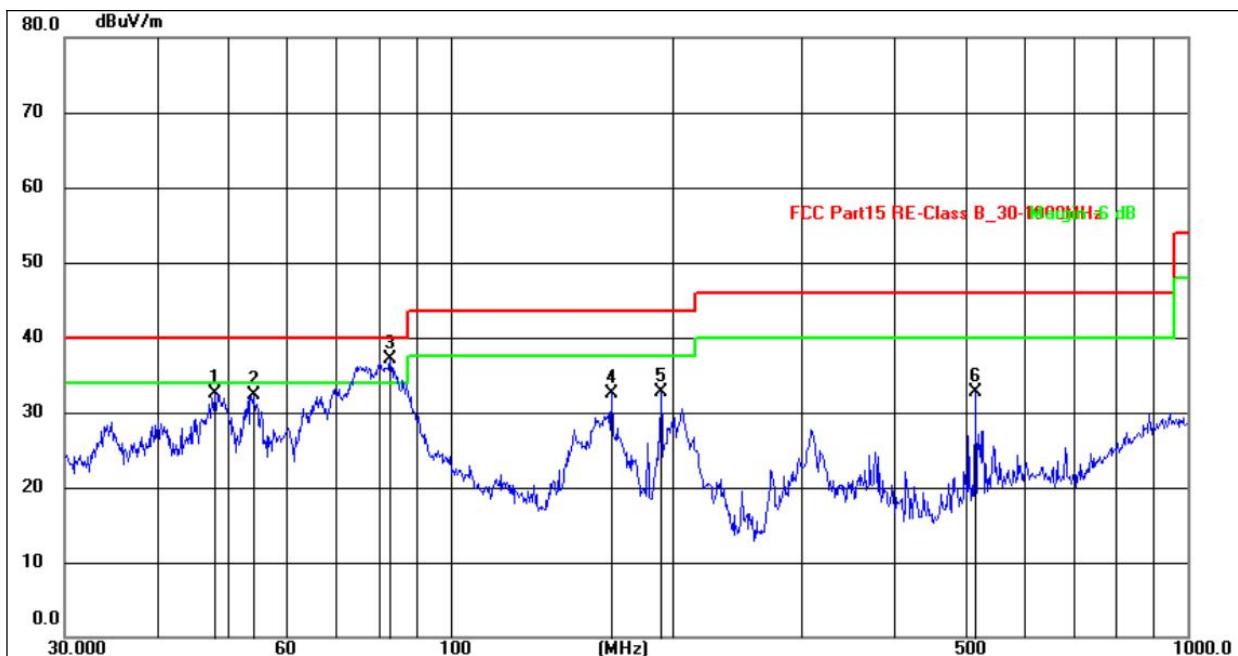
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 84.4054 | 46.37 | -19.67 | 26.70 | 40.00 | -13.30 | QP |
| 2 | 165.4866 | 41.70 | -16.40 | 25.30 | 43.50 | -18.20 | QP |
| 3 | 199.2855 | 50.82 | -18.46 | 32.36 | 43.50 | -11.14 | QP |
| 4 | 281.9945 | 48.95 | -14.20 | 34.75 | 46.00 | -11.25 | QP |
| 5 | 397.6333 | 47.92 | -16.07 | 31.85 | 46.00 | -14.15 | QP |
| 6 | 760.7034 | 31.18 | -6.57 | 24.61 | 46.00 | -21.39 | QP |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 31a recorded.



| | | | |
|---------------|---------------------------------|--------------------|----------|
| Temperature: | 26°C | Relative Humidity: | 54% |
| Pressure: | 101kPa | Polarization: | Vertical |
| Test Voltage: | DC 9V From Adapter AC 120V/60Hz | Test Mode: | Mode 31a |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 47.9939 | 49.68 | -17.09 | 32.59 | 40.00 | -7.41 | QP |
| 2 | 54.0709 | 49.97 | -17.61 | 32.36 | 40.00 | -7.64 | QP |
| 3 | 82.9384 | 58.80 | -21.65 | 37.15 | 40.00 | -2.85 | QP |
| 4 | 165.4866 | 52.35 | -19.85 | 32.50 | 43.50 | -11.00 | QP |
| 5 | 193.0944 | 52.78 | -20.12 | 32.66 | 43.50 | -10.84 | QP |
| 6 | 515.4373 | 43.13 | -10.42 | 32.71 | 46.00 | -13.29 | QP |

Remarks:

1. An initial pre-scan was performed on the peak detector.
2. Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Reading level + Correct Factor.
4. Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
5. Margin= Measurement Level-Limit.
6. All test modes were tested, with only the worst Mode 31a recorded.



6. 20DB BANDWIDTH TEST

6.1 TEST PROCEDURE

1. Se span = 1.5 ~ 5 times OBW.
2. Set RBW = 1%~5% OBW.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

6.2 LIMIT

N/A

6.3 TEST SETUP



6.4 DEVIATION FROM STANDARD

No deviation.

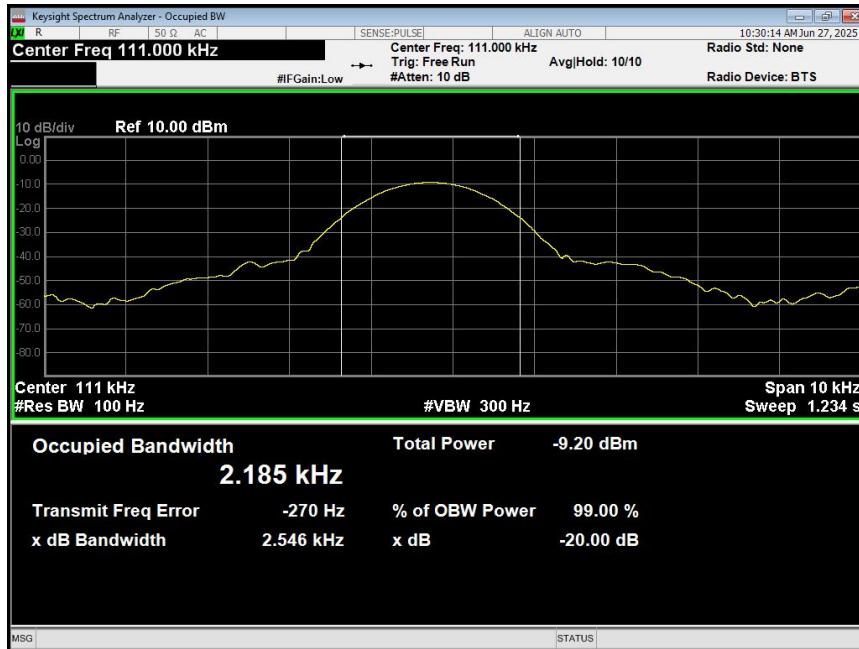


6.5 TEST RESULT

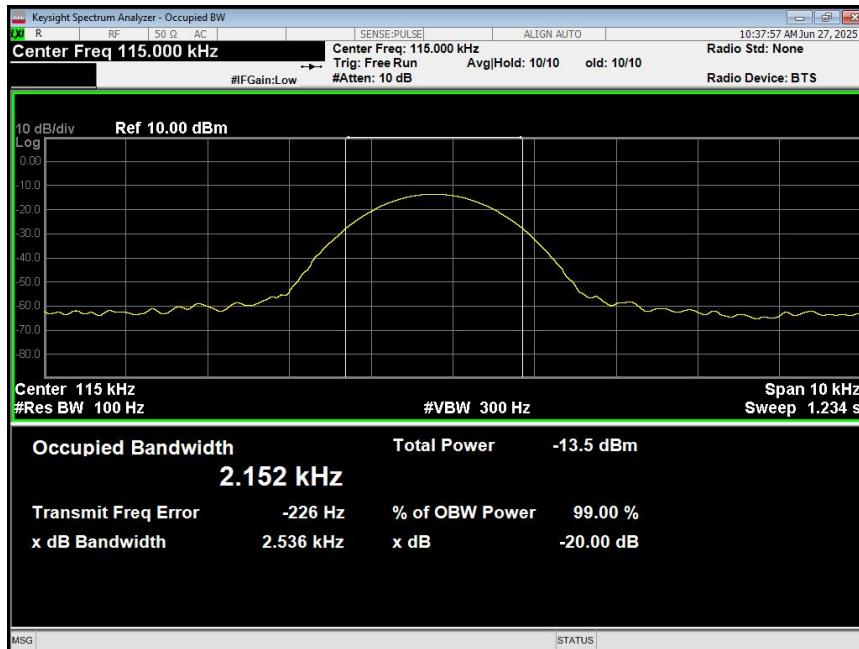
| | | | |
|--------------|--------|--------------------|---------------------------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 101kPa | Test Voltage: | DC 9V From Adapter AC 120V/60Hz |

| Test Coil | Frequency (kHz) | 20dB Bandwidth (kHz) | Result |
|-----------|-----------------|----------------------|--------|
| ANT 1 | 111.00 | 2.546 | Pass |
| ANT 2 | 115.60 | 2.536 | Pass |
| ANT 3 | 122.30 | 2.522 | Pass |
| ANT 4 | 327.00 | 2.530 | Pass |

ANT1:

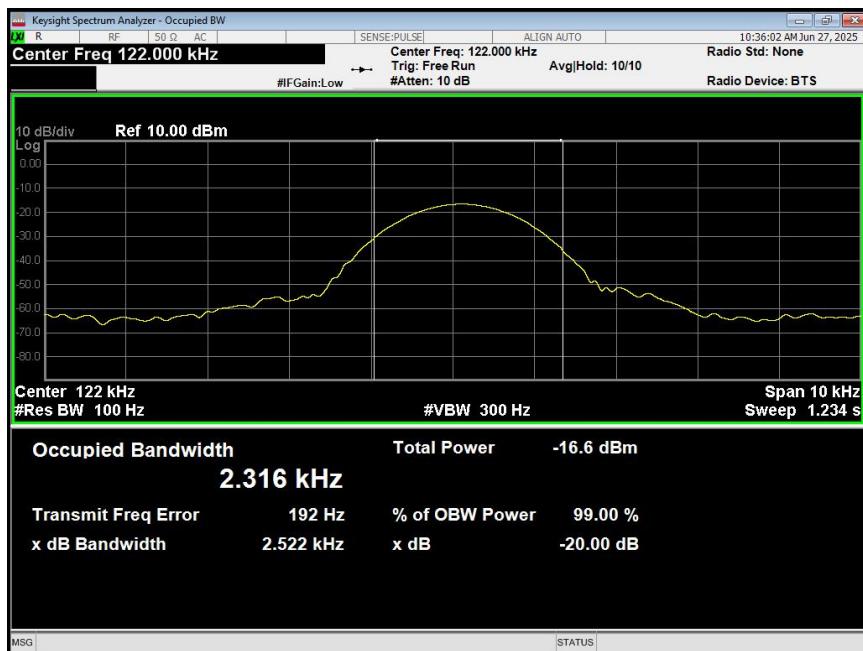


ANT2:

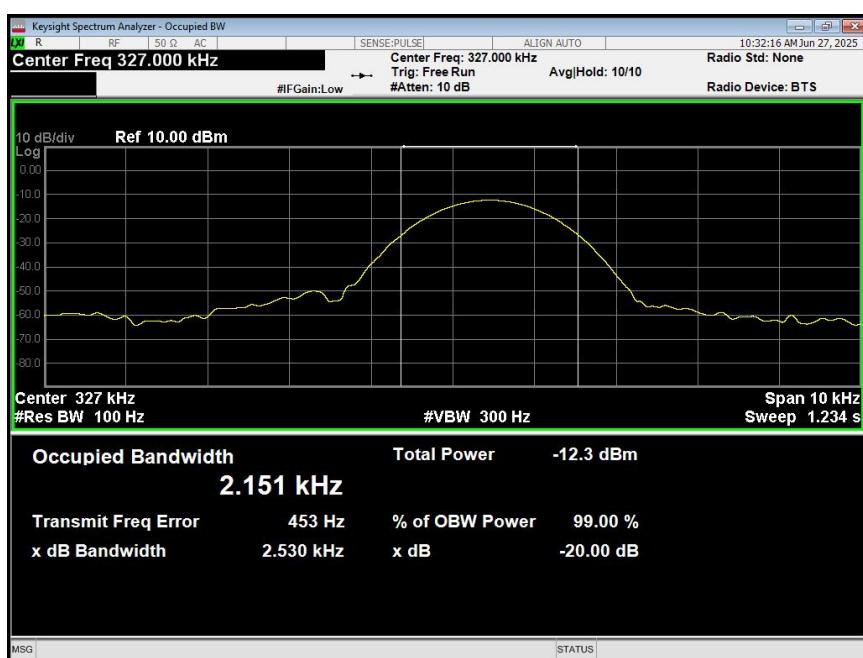




ANT3:



ANT4:





7. ANTENNA REQUIREMENT

| | |
|---|-----------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 |
| 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. | |
| EUT Antenna: | |
| The antenna is Loop Coil antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details. | |



8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****