# TEST REPORT

FCC ID: 2AIZN-X6720B

Product: Mobile Phone

Model No.: X6720B

Trade Mark: Infinix

Report No.: WSCT-ANAB-R&E240700032A-Wi-Fi2

Issued Date: 12 August 2024

Issued for:

INFINIX MOBILITY LIMITED
FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET
FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co., Ltd.
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# 1 Test Certification

| | |
|---|---|
| **Product:** | Mobile Phone |
| **Model No.:** | X6720B |
| **Additional Model:** | Infinix |
| **Applicant:** | **INFINIX MOBILITY LIMITED**<br>FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| **Manufacturer:** | **INFINIX MOBILITY LIMITED**<br>FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG |
| **Date of receipt:** | 16 June 2024 |
| **Date of Test:** | 17 June 2024 to 09 August 2024 |
| **Applicable Standards:** | FCC CFR Title 47 FCC Part 15 Subpart E |

*The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.*

**Tested By:** Wang Xiang **(Wang Xiang)**

**Checked By:** Qin Shuiquan **( Qin Shuiquan)**

**Approved By:** Liu Fuxin **( Liu Fuxin)**

**Date:** 12 August 2024

# 2 EUT Description

| | |
|---|---|
| **Product:** | Mobile Phone |
| **Model No.:** | X6720B |
| **Trade Mark:** | Infinix |
| **Software version:** | X6720-H353RS-U-OP-240531V276 |
| **Hardware version:** | V1.2 |
| **Operation Frequency:** | Band 1: 5180-5240 MHz<br>Band 2: 5260-5320 MHz<br>Band 3: 5500-5700 MHz<br>Band 4: 5745-5825 MHz |
| **Modulation type:** | IEEE 802.11a/n/ac: OFDM/OFDMA<br>(BPSK/QPSK/16QAM/64QAM/256QAM) |
| **Antenna Type:** | FIPA Antenna |
| **Antenna Gain** | -3.73dBi |
| **Operating Voltage:** | Adapter: U180XSA<br>Input: 100-240V~50/60Hz 0.6A<br>Output: 5.0V⎓2.4A or 7.5V⎓2.4A 18.0W MAX<br>Rechargeable Li-ion Polymer Battery Model: BL-5ABX<br>Rated Voltage: 3.87V<br>Rated Capacity: 4900mAh/18.97Wh<br>Typical Capacity: 5000mAh/19.35Wh<br>Limited Charge Voltage: 4.45V |
| **Remark:** | N/A. |

Note: 1. N/A stands for no applicable.
2. Antenna gain provided by the customer.

# 3 TEST DESCRIPTION

## 3.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y ± 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 | Conducted Emission Test | ±3.2dB |
| 2 | RF power, conducted | ±0.16dB |
| 3 | Spurious emissions, conducted | ±0.21dB |
| 4 | All emissions, radiated(<1GHz) | ±4.7dB |
| 5 | All emissions, radiated(>1GHz) | ±4.7dB |
| 6 | Temperature | ±0.5°C |
| 7 | Humidity | ±2% |
| 8 | Receiver Spurious Emissions | ±2.5% |
| 9 | Transmitter Unwanted Emissions in the Spurious Domain | ±2.5% |
| 10 | Transmitter Unwanted Emission in the out-of Band | ±1.3% |
| 11 | Occupied Channel Bandwidth | ±2.4% |

## 3.2 TEST ENVIRONMENT AND MODE

| | |
|---|---|
| **Operating Environment:** | |
| Temperature: | 25.0 °C |
| Humidity: | 56 % RH |
| Atmospheric Pressure: | 1010 mbar |
| **Test Mode:** | |
| Engineering mode: | Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) |

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

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.

| Test Mode | Description |
|---|---|
| Mode 1 | 802.11a |
| Mode 2 | 802.11n20 |
| Mode 3 | 802.11n40 |
| Mode 4 | 802.11ac20 |
| Mode 5 | 802.11ac40 |
| Mode 6 | 802.11ac80 |

Note:

*(1) The measurements are performed at the highest, lowest available channels.*

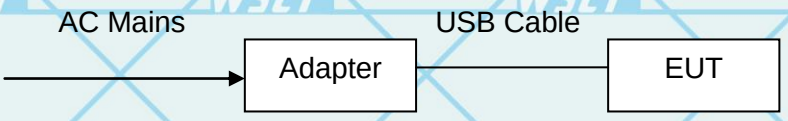
*(2) The EUT use new battery.*

*(3) Record the worst case of each test item in this report.*

### 3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

| Test program | *#*#3646633#*#* | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mode | Test Frequency (MHz) | | | | | | | |
| | NCB: 20MHz | | | | | | | |
| 802.11a | 5180 | 5240 | 5260 | 5320 | 5500 | 5700 | 5745 | 5825 |
| 802.11n | 5180 | 5240 | 5260 | 5320 | 5500 | 5700 | 5745 | 5825 |
| 802.11ac | 5180 | 5240 | 5260 | 5320 | 5500 | 5700 | 5745 | 5825 |
| | NCB: 40MHz | | | | | | | |
| 802.11n | 5190 | 5230 | 5270 | 5310 | 5510 | 5670 | 5755 | 5795 |
| 802.11ac | 5190 | 5230 | 5270 | 5310 | 5510 | 5670 | 5755 | 5795 |
| | NCB: 80MHz | | | | | | | |
| 802.11ac | 5210 | 5290 | 5530 | 5610 | 5775 | | | |

CONFIGURATION OF SYSTEM UNDER TEST




(EUT: Mobile Phone)

### 3.4 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 |
|---|---|---|---|---|---|
| 1 | Adapter | / | U180XSA | / | / |
| 2 | Earphone | / | N/A | / | / |

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”.
(4) The adapter supply by the applicant.

# 4 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15 Subpart C&E | | | |
|---|---|---|---|
| Standard Section | Test Item | Judgment | Remark |
| 2.1049<br>15.403(i) | 26dB & 99% Bandwidth | PASS | Complies |
| 15.407(e) | 6dB Spectrum Bandwidth | PASS | Complies |
| 15.407(a) | Maximum Conducted Output Power | PASS | Complies |
| 15.407(a) | Power Spectral Density | PASS | Complies |
| 15.407(b) | Unwanted Emissions | PASS | Complies |
| 15.207 | AC Conducted Emission | PASS | Complies |
| 15.407(g) | Frequency Stability | PASS | Complies |
| 15.407(c) | Automatically Discontinue Transmission | PASS | Complies |
| 15.203 &<br>15.407(a) | Antenna Requirement | PASS | Complies |
| 15.407(h) | Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS) | PASS | Complies |

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

# 5 MEASUREMENT INSTRUMENTS

| NAME OF EQUIPMENT | MANUFACTURER | MODEL | SERIAL NUMBER | Calibration Date | Calibration Due. |
|---|---|---|---|---|---|
| Test software | -- | EZ-EMC | CON-03A | - | - |
| Test software | -- | MTS8310 | - | - | - |
| EMI Test Receiver | R&S | ESCI | 100005 | 11/05/2023 | 11/04/2024 |
| LISN | AFJ | LS16 | 16010222119 | 11/05/2023 | 11/04/2024 |
| LISN(EUT) | Mestec | AN3016 | 04/10040 | 11/05/2023 | 11/04/2024 |
| Universal Radio Communication Tester | R&S | CMU 200 | 1100.0008.02 | 11/05/2023 | 11/04/2024 |
| Coaxial cable | Megalon | LMR400 | N/A | 11/05/2023 | 11/04/2024 |
| GPIB cable | Megalon | GPIB | N/A | 11/05/2023 | 11/04/2024 |
| Spectrum Analyzer | R&S | FSU | 100114 | 11/05/2023 | 11/04/2024 |
| Pre Amplifier | H.P. | HP8447E | 2945A02715 | 11/05/2023 | 11/04/2024 |
| Pre-Amplifier | CDSI | PAP-1G18-38 | -- | 11/05/2023 | 11/04/2024 |
| Bi-log Antenna | SCHWARZBECK | VULB9168 | 01488 | 7/29/2024 | 7/28/2025 |
| 9*6*6 Anechoic | -- | -- | -- | 11/05/2023 | 11/04/2024 |
| Horn Antenna | COMPLIANCE ENGINEERING | CE18000 | -- | 11/05/2023 | 11/04/2024 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-631 | 11/05/2023 | 11/04/2024 |
| Cable | TIME MICROWAVE | LMR-400 | N-TYPE04 | 11/05/2023 | 11/04/2024 |
| System-Controller | CCS | N/A | N/A | N.C.R | N.C.R |
| Turn Table | CCS | N/A | N/A | N.C.R | N.C.R |
| Antenna Tower | CCS | N/A | N/A | N.C.R | N.C.R |
| RF cable | Murata | MXHQ87WA3000 | - | 11/05/2023 | 11/04/2024 |
| Loop Antenna | EMCO | 6502 | 00042960 | 11/05/2023 | 11/04/2024 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | 1123 | 11/05/2023 | 11/04/2024 |
| Power meter | Anritsu | ML2487A | 6K00003613 | 11/05/2023 | 11/04/2024 |
| Power sensor | Anritsu | MX248XD | -- | 11/05/2023 | 11/04/2024 |
| Spectrum Analyzer | Keysight | N9010B | MY60241089 | 11/05/2023 | 11/04/2024 |

# 6 Facilities and Accreditations

## 6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at **Building A-B, Baoli'an Industrial Park, No. 58 Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.**

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, “Radio Interference Measuring Apparatus and Measurement Methods.”

## 6.2 ACCREDITATIONS

**CNAS - Registration Number: L3732**

China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

**FCC - Designation Number: CN1303**

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

**ANAB - Certificate Number: AT-3951**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB).Certification Number: AT-3951

# 7 Test Results and Measurement Data

## 7.1 CONDUCTED EMISSION MEASUREMENT

**POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)**

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | | Standard |
|---|---|---|---|---|---|
| | Quasi-peak | Average | Quasi-peak | Average | |
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 | FCC |

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---|---|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

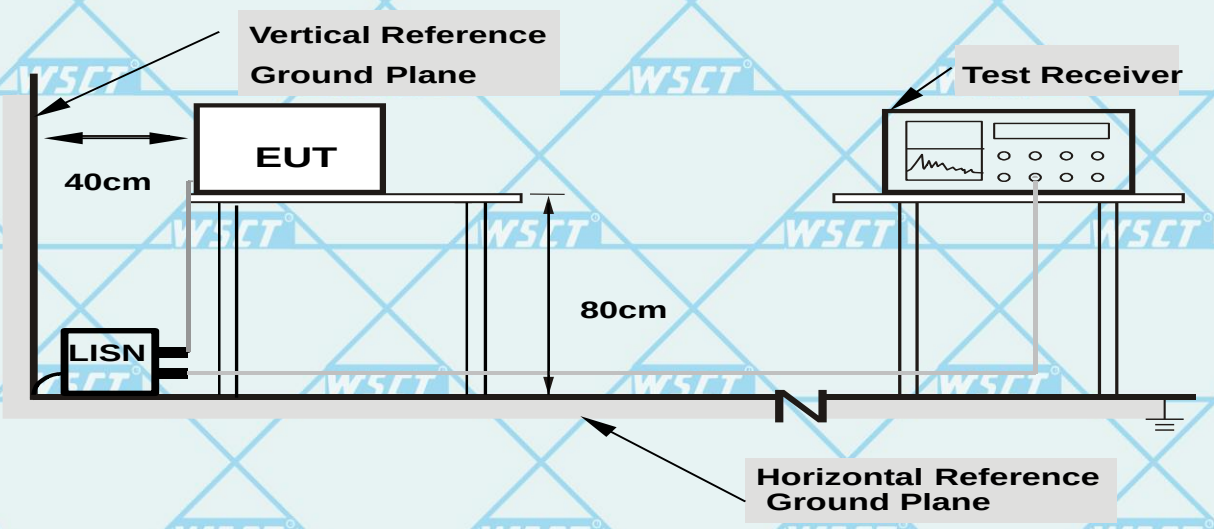
### 7.1.1 TEST PROCEDURE

a. The EUT was placed 0.4 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.

## 7.2 DEVIATION FROM TEST STANDARD

No deviation

**TEST SETUP**



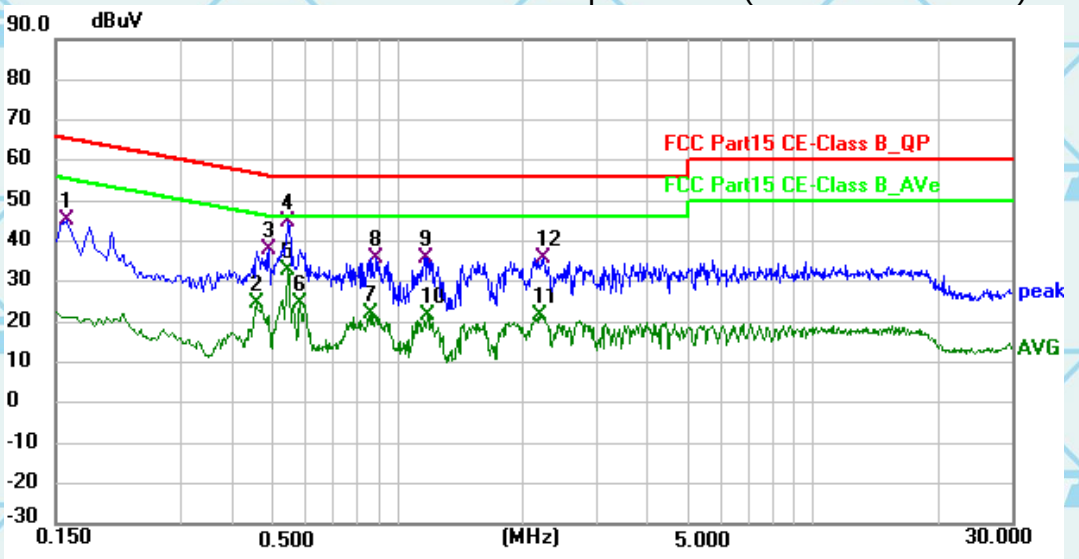

**Note: 1.Support units were connected to second LISN.**
**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

### 7.2.1 EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.
Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

### 7.2.2 TEST RESULTS

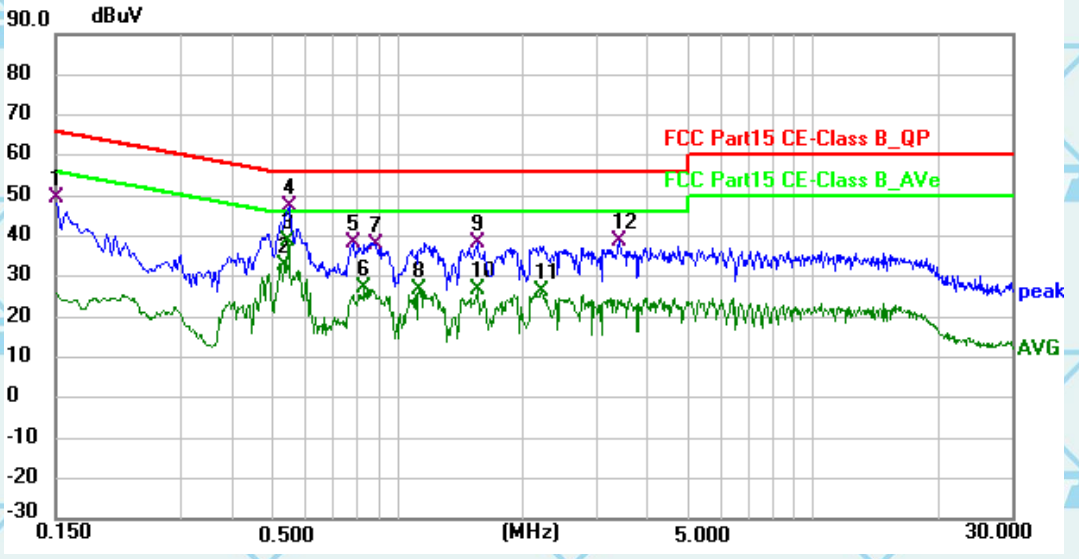
Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)-worst




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 0.1590 | 24.33 | 20.72 | 45.05 | 65.52 | -20.47 | QP |
| 2 | 0.4560 | 4.07 | 20.54 | 24.61 | 46.77 | -22.16 | AVG |
| 3 | 0.4875 | 17.61 | 20.52 | 38.13 | 56.21 | -18.08 | QP |
| 4 * | 0.5415 | 24.22 | 20.52 | 44.74 | 56.00 | -11.26 | QP |
| 5 | 0.5415 | 12.25 | 20.52 | 32.77 | 46.00 | -13.23 | AVG |
| 6 | 0.5820 | 3.93 | 20.52 | 24.45 | 46.00 | -21.55 | AVG |
| 7 | 0.8655 | 1.47 | 20.61 | 22.08 | 46.00 | -23.92 | AVG |
| 8 | 0.8880 | 15.13 | 20.62 | 35.75 | 56.00 | -20.25 | QP |
| 9 | 1.1715 | 15.20 | 20.66 | 35.86 | 56.00 | -20.14 | QP |
| 10 | 1.1805 | 1.14 | 20.66 | 21.80 | 46.00 | -24.20 | AVG |
| 11 | 2.2065 | 1.18 | 20.61 | 21.79 | 46.00 | -24.21 | AVG |
| 12 | 2.2470 | 15.03 | 20.61 | 35.64 | 56.00 | -20.36 | QP |

Remark: All the modes have been investigated, and only worst mode is presented in this report.

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 0.1500 | 28.78 | 20.73 | 49.51 | 66.00 | -16.49 | QP |
| 2 | 0.5325 | 12.35 | 20.51 | 32.86 | 46.00 | -13.14 | AVG |
| 3 * | 0.5415 | 18.33 | 20.52 | 38.85 | 46.00 | -7.15 | AVG |
| 4 | 0.5460 | 26.76 | 20.52 | 47.28 | 56.00 | -8.72 | QP |
| 5 | 0.7799 | 17.80 | 20.57 | 38.37 | 56.00 | -17.63 | QP |
| 6 | 0.8340 | 6.56 | 20.60 | 27.16 | 46.00 | -18.84 | AVG |
| 7 | 0.8835 | 17.22 | 20.62 | 37.84 | 56.00 | -18.16 | QP |
| 8 | 1.1265 | 6.24 | 20.66 | 26.90 | 46.00 | -19.10 | AVG |
| 9 | 1.5540 | 17.70 | 20.64 | 38.34 | 56.00 | -17.66 | QP |
| 10 | 1.5540 | 6.31 | 20.64 | 26.95 | 46.00 | -19.05 | AVG |
| 11 | 2.2290 | 5.75 | 20.61 | 26.36 | 46.00 | -19.64 | AVG |
| 12 | 3.4170 | 18.21 | 20.59 | 38.80 | 56.00 | -17.20 | QP |

***Note1:***

*Freq. = Emission frequency in MHz*

*Reading level (dBμV) = Receiver reading*

*Corr. Factor (dB) = Antenna factor + Cable loss*

*Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)*

*Limit (dBμV) = Limit stated in standard*

*Margin (dB) = Measurement (dBμV) – Limits (dBμV)*

*Q.P. =Quasi-Peak AVG =average*

** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

## 7.3 RADIATED EMISSION MEASUREMENT

**Radiated Emission Limits (Frequency Range 9kHz-1000MHz)**

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| FREQUENCY (MHz) | Limit (dBuV/m) (at 3M) | |
|---|---|---|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average |

| Receiver Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

### 7.3.1 TEST PROCEDURE

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

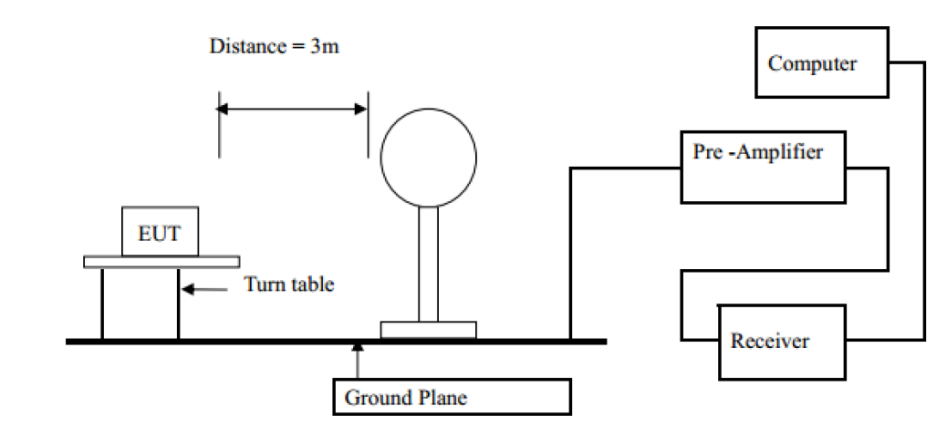
***Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported***

### 7.3.2 DEVIATION FROM TEST STANDARD

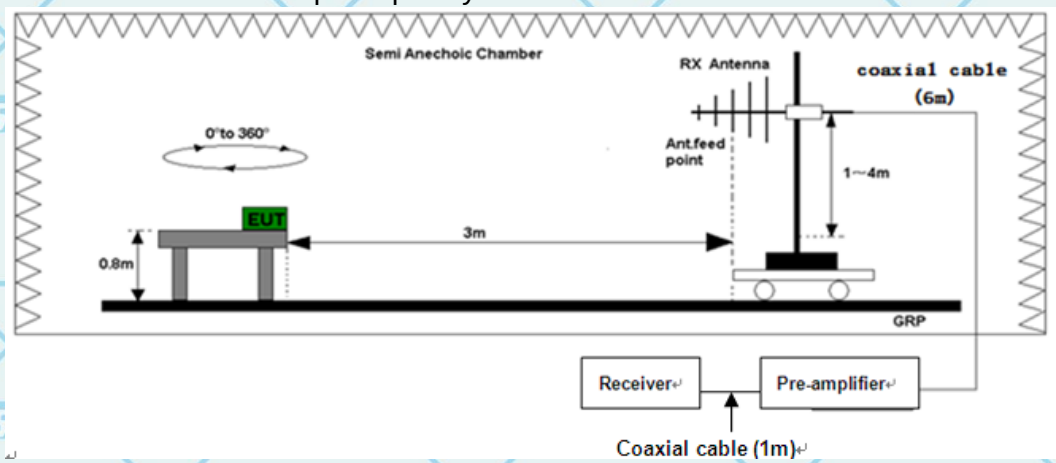
No deviation

### 7.3.3 TEST SETUP

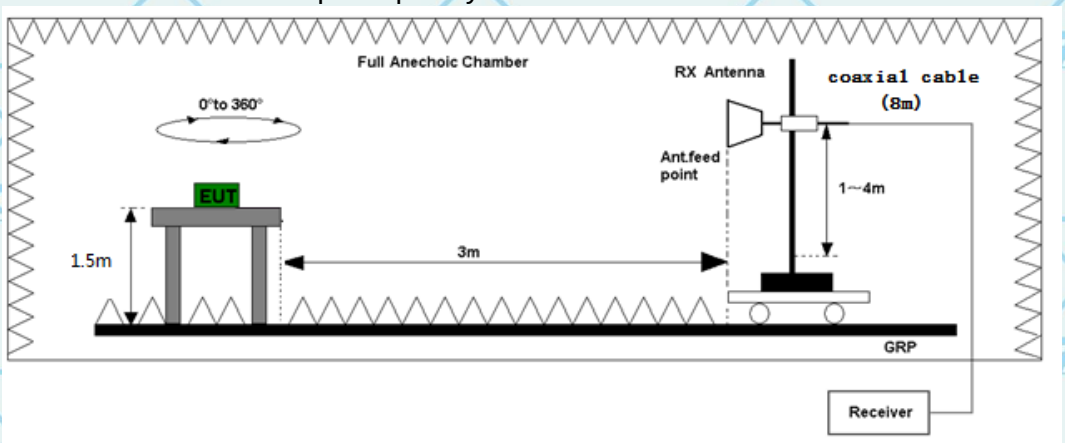
（A）Radiated Emission Test-Up Frequency Below 30MHz




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




（C）Radiated Emission Test-Up Frequency Above 1GHz



### 7.3.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

### 7.3.5 RESULTS (BELOW 30 MHZ)

| Freq. | Reading | Limit | Margin | State |
|---|---|---|---|---|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| -- | -- | -- | -- | P |
| -- | -- | -- | -- | P |

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz，According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

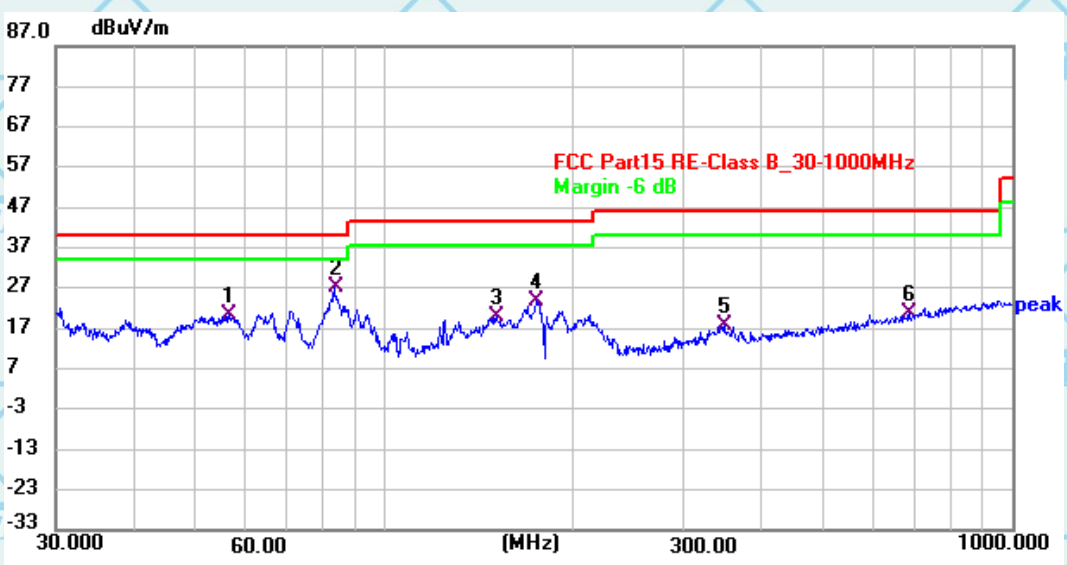
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

### 7.3.6 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

**Please refer to following diagram for individual**

**Below 1GHz**

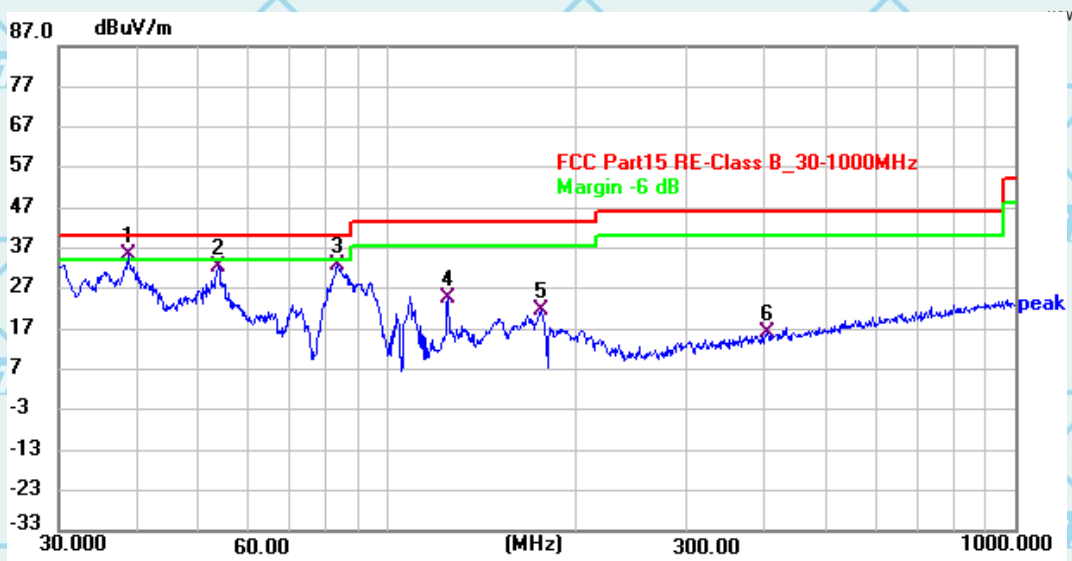
Horizontal:




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 56.8166 | 40.51 | -19.95 | 20.56 | 40.00 | -19.44 | QP |
| 2 * | 83.5222 | 50.98 | -23.94 | 27.04 | 40.00 | -12.96 | QP |
| 3 | 151.1991 | 39.25 | -19.48 | 19.77 | 43.50 | -23.73 | QP |
| 4 | 175.4977 | 45.56 | -21.58 | 23.98 | 43.50 | -19.52 | QP |
| 5 | 348.9439 | 36.95 | -19.05 | 17.90 | 46.00 | -28.10 | QP |
| 6 | 686.8495 | 33.35 | -12.58 | 20.77 | 46.00 | -25.23 | QP |

Remark: All the modes have been investigated, and only worst mode is presented in this report.

Vertical:



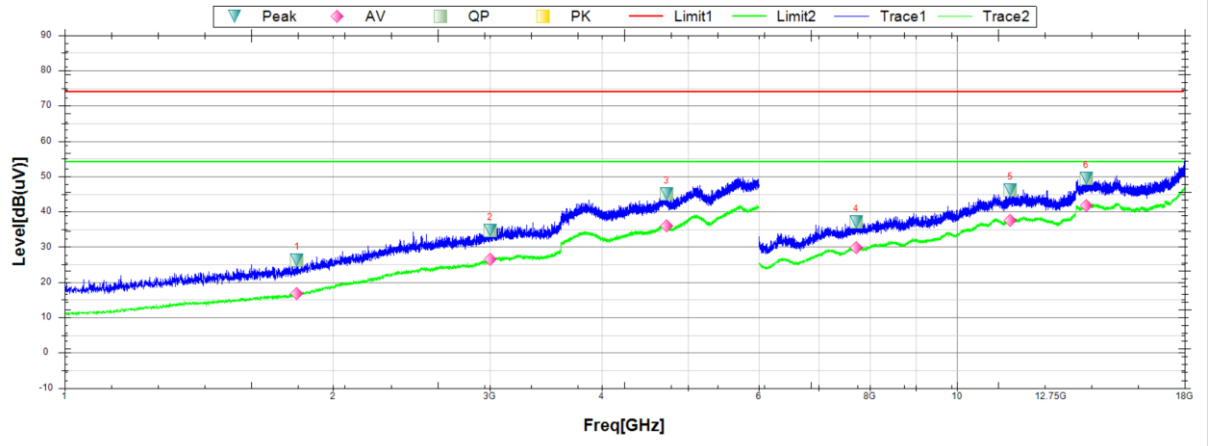

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 * | 38.8198 | 54.57 | -19.18 | 35.39 | 40.00 | -4.61 | QP |
| 2 | 53.9527 | 51.52 | -19.23 | 32.29 | 40.00 | -7.71 | QP |
| 3 | 83.5588 | 56.73 | -23.93 | 32.80 | 40.00 | -7.20 | QP |
| 4 | 125.0066 | 45.83 | -20.98 | 24.85 | 43.50 | -18.65 | QP |
| 5 | 176.1914 | 43.37 | -21.80 | 21.57 | 43.50 | -21.93 | QP |
| 6 | 403.7805 | 33.41 | -17.46 | 15.95 | 46.00 | -30.05 | QP |

Note1:
Freq. = Emission frequency in MHz
Reading level (dBµV) = Receiver reading
Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.
Measurement (dBµV) = Reading level (dBµV) + Corr. Factor (dB)
Limit (dBµV) = Limit stated in standard
Margin (dB) = Measurement (dBµV) – Limits (dBµV)

### 7.3.7 TEST RESULTS (ABOVE 1GHZ)

Note: 1.The spurious above 18G is noise only, do not show on the report.
2. Report and only recorded the worst-case scenario 802.11a.

11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT H




**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1822.5000 | 26.19 | 0.94 | 25.25 | 74 | -47.81 | 221 | Horizontal | PK | Pass |
| 2 | 3000.6250 | 34.63 | 7.97 | 26.66 | 74 | -39.37 | -0.1 | Horizontal | PK | Pass |
| 3 | 4731.2500 | 44.95 | 14.83 | 30.12 | 74 | -29.05 | 45.4 | Horizontal | PK | Pass |
| 4 | 7714.5000 | 36.99 | 36.57 | 0.42 | 74 | -37.01 | 351.2 | Horizontal | PK | Pass |
| 5 | 11487.0000 | 46.04 | 39.06 | 6.98 | 74 | -27.96 | 304.6 | Horizontal | PK | Pass |
| 6 | 13963.5000 | 49.4 | 41.41 | 7.99 | 74 | -24.6 | 26 | Horizontal | PK | Pass |

**Final Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB (uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1822.5000 | 16.66 | 0.94 | 15.72 | 54 | -37.34 | 221 | Horizontal | AV | Pass |
| 2 | 3000.6250 | 26.49 | 7.97 | 18.52 | 54 | -27.51 | -0.1 | Horizontal | AV | Pass |
| 3 | 4731.2500 | 35.87 | 14.83 | 21.04 | 54 | -18.13 | 45.4 | Horizontal | AV | Pass |
| 4 | 7714.5000 | 29.73 | 36.57 | -6.84 | 54 | -24.27 | 351.2 | Horizontal | AV | Pass |
| 5 | 11487.0000 | 37.42 | 39.06 | -1.64 | 54 | -16.58 | 304.6 | Horizontal | AV | Pass |
| 6 | 13963.5000 | 41.81 | 41.41 | 0.4 | 54 | -12.19 | 26 | Horizontal | AV | Pass |

11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT V


**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1953.1250 | 27.39 | 2.09 | 25.3 | 74 | -46.61 | 115.1 | Vertical | PK | Pass |
| 2 | 3142.5000 | 36.5 | 8.01 | 28.49 | 74 | -37.5 | 36.2 | Vertical | PK | Pass |
| 3 | 4710.0000 | 44.7 | 14.79 | 29.91 | 74 | -29.3 | 326.7 | Vertical | PK | Pass |
| 4 | 8289.0000 | 38.1 | 37.12 | 0.98 | 74 | -35.9 | 75 | Vertical | PK | Pass |
| 5 | 10995.0000 | 44.29 | 39.49 | 4.8 | 74 | -29.71 | 89.4 | Vertical | PK | Pass |
| 6 | 14044.5000 | 49.79 | 41.44 | 8.35 | 74 | -24.21 | 106.2 | Vertical | PK | Pass |

**Final Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB (uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1953.1250 | 18.68 | 2.09 | 16.59 | 54 | -35.32 | 115.1 | Vertical | AV | Pass |
| 2 | 3142.5000 | 26.9 | 8.01 | 18.89 | 54 | -27.1 | 36.2 | Vertical | AV | Pass |
| 3 | 4710.0000 | 36.1 | 14.79 | 21.31 | 54 | -17.9 | 326.7 | Vertical | AV | Pass |
| 4 | 8289.0000 | 30.71 | 37.12 | -6.41 | 54 | -23.29 | 75 | Vertical | AV | Pass |
| 5 | 10995.0000 | 37.42 | 39.49 | -2.07 | 54 | -16.58 | 89.4 | Vertical | AV | Pass |
| 6 | 14044.5000 | 41.62 | 41.44 | 0.18 | 54 | -12.38 | 106.2 | Vertical | AV | Pass |

11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT H

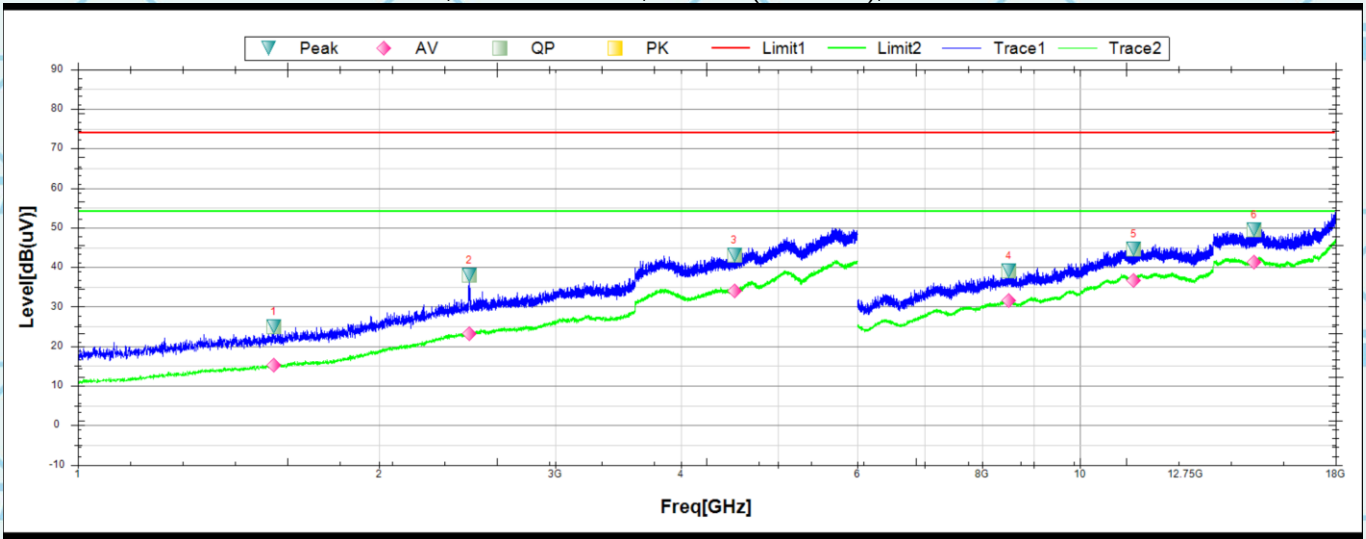

**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1775.6250 | 25.49 | 0.64 | 24.85 | 74 | -48.51 | 166.6 | Horizontal | PK | Pass |
| 2 | 2568.1250 | 38.75 | 5.87 | 32.88 | 74 | -35.25 | 250.3 | Horizontal | PK | Pass |
| 3 | 4349.3750 | 42.83 | 13.34 | 29.49 | 74 | -31.17 | 0.5 | Horizontal | PK | Pass |
| 4 | 8442.0000 | 38.52 | 37.18 | 1.34 | 74 | -35.48 | 15.3 | Horizontal | PK | Pass |
| 5 | 11799.0000 | 45.32 | 38.78 | 6.54 | 74 | -28.68 | 13 | Horizontal | PK | Pass |
| 6 | 14412.0000 | 49.85 | 40.96 | 8.89 | 74 | -24.15 | 304.6 | Horizontal | PK | Pass |

**Final Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB (uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1775.6250 | 15.72 | 0.64 | 15.08 | 54 | -38.28 | 166.6 | Horizontal | AV | Pass |
| 2 | 2568.1250 | 23.41 | 5.87 | 17.54 | 54 | -30.59 | 250.3 | Horizontal | AV | Pass |
| 3 | 4349.3750 | 34 | 13.34 | 20.66 | 54 | -20 | 0.5 | Horizontal | AV | Pass |
| 4 | 8442.0000 | 30.97 | 37.18 | -6.21 | 54 | -23.03 | 15.3 | Horizontal | AV | Pass |
| 5 | 11799.0000 | 38.13 | 38.78 | -0.65 | 54 | -15.87 | 13 | Horizontal | AV | Pass |
| 6 | 14412.0000 | 41.46 | 40.96 | 0.5 | 54 | -12.54 | 304.6 | Horizontal | AV | Pass |

11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT V



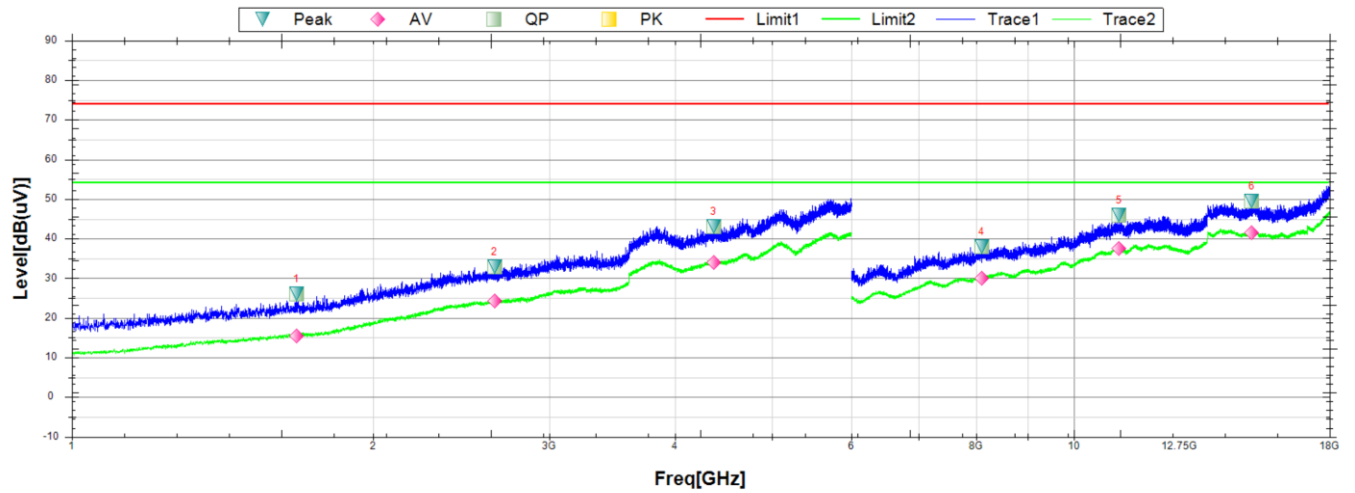

**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1568.7500 | 24.87 | -0.06 | 24.93 | 74 | -49.13 | 110.5 | Vertical | PK | Pass |
| 2 | 2460.0000 | 38.03 | 5.42 | 32.61 | 74 | -35.97 | 185.8 | Vertical | PK | Pass |
| 3 | 4522.5000 | 42.95 | 13.74 | 29.21 | 74 | -31.05 | 316.1 | Vertical | PK | Pass |
| 4 | 8500.5000 | 38.98 | 37.2 | 1.78 | 74 | -35.02 | 357.8 | Vertical | PK | Pass |
| 5 | 11328.0000 | 44.57 | 39.2 | 5.37 | 74 | -29.43 | -0.1 | Vertical | PK | Pass |
| 6 | 14935.5000 | 49.42 | 40.28 | 9.14 | 74 | -24.58 | 359.6 | Vertical | PK | Pass |

**Final Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB (uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1568.7500 | 15.18 | -0.06 | 15.24 | 54 | -38.82 | 110.5 | Vertical | AV | Pass |
| 2 | 2460.0000 | 23.25 | 5.42 | 17.83 | 54 | -30.75 | 185.8 | Vertical | AV | Pass |
| 3 | 4522.5000 | 33.94 | 13.74 | 20.2 | 54 | -20.06 | 316.1 | Vertical | AV | Pass |
| 4 | 8500.5000 | 31.5 | 37.2 | -5.7 | 54 | -22.5 | 357.8 | Vertical | AV | Pass |
| 5 | 11328.0000 | 36.59 | 39.2 | -2.61 | 54 | -17.41 | -0.1 | Vertical | AV | Pass |
| 6 | 14935.5000 | 41.25 | 40.28 | 0.97 | 54 | -12.75 | 359.6 | Vertical | AV | Pass |

11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT H



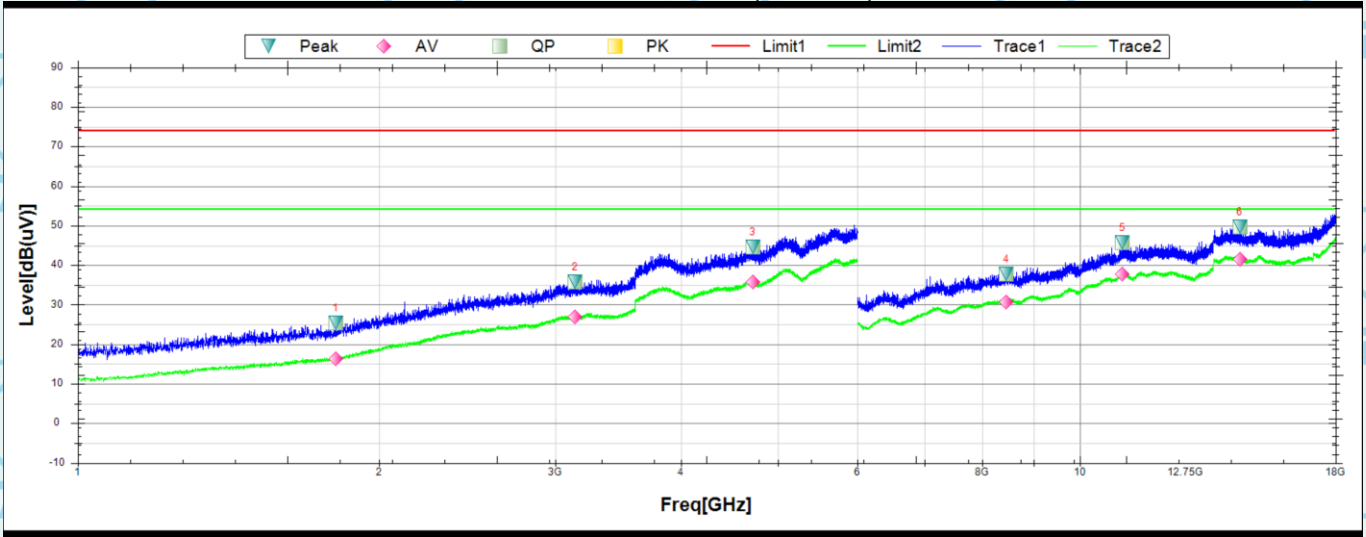

**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1676.2500 | 25.98 | 0.23 | 25.75 | 74 | -48.02 | 360 | Horizontal | PK | Pass |
| 2 | 2642.5000 | 32.85 | 6.1 | 26.75 | 74 | -41.15 | 357.4 | Horizontal | PK | Pass |
| 3 | 4372.5000 | 43.04 | 13.41 | 29.63 | 74 | -30.96 | 50.6 | Horizontal | PK | Pass |
| 4 | 8094.0000 | 37.86 | 37.04 | 0.82 | 74 | -36.14 | 231.6 | Horizontal | PK | Pass |
| 5 | 11103.0000 | 45.89 | 39.41 | 6.48 | 74 | -28.11 | 52.2 | Horizontal | PK | Pass |
| 6 | 15058.5000 | 49.42 | 40.02 | 9.4 | 74 | -24.58 | 23.7 | Horizontal | PK | Pass |

**Final Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB (uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1676.2500 | 15.47 | 0.23 | 15.24 | 54 | -38.53 | 360 | Horizontal | AV | Pass |
| 2 | 2642.5000 | 24.25 | 6.1 | 18.15 | 54 | -29.75 | 357.4 | Horizontal | AV | Pass |
| 3 | 4372.5000 | 33.94 | 13.41 | 20.53 | 54 | -20.06 | 50.6 | Horizontal | AV | Pass |
| 4 | 8094.0000 | 30.08 | 37.04 | -6.96 | 54 | -23.92 | 231.6 | Horizontal | AV | Pass |
| 5 | 11103.0000 | 37.4 | 39.41 | -2.01 | 54 | -16.6 | 52.2 | Horizontal | AV | Pass |
| 6 | 15058.5000 | 41.47 | 40.02 | 1.45 | 54 | -12.53 | 23.7 | Horizontal | AV | Pass |

11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT V



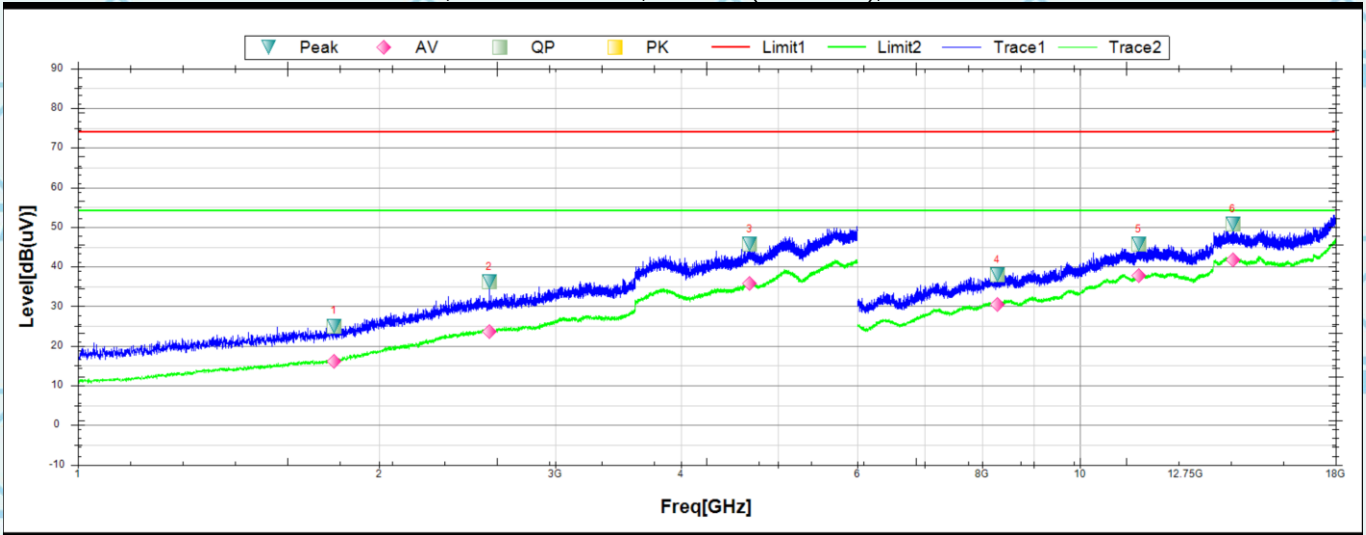

**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1809.3750 | 25.35 | 0.85 | 24.5 | 74 | -48.65 | 353 | Vertical | PK | Pass |
| 2 | 3138.1250 | 35.77 | 7.99 | 27.78 | 74 | -38.23 | 287.4 | Vertical | PK | Pass |
| 3 | 4719.3750 | 44.62 | 14.81 | 29.81 | 74 | -29.38 | 24.5 | Vertical | PK | Pass |
| 4 | 8452.5000 | 37.79 | 37.18 | 0.61 | 74 | -36.21 | 0 | Vertical | PK | Pass |
| 5 | 11037.0000 | 45.6 | 39.47 | 6.13 | 74 | -28.4 | 4.9 | Vertical | PK | Pass |
| 6 | 14443.5000 | 49.6 | 40.92 | 8.68 | 74 | -24.4 | 319 | Vertical | PK | Pass |

**Final Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB (uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1809.3750 | 16.27 | 0.85 | 15.42 | 54 | -37.73 | 353 | Vertical | AV | Pass |
| 2 | 3138.1250 | 27.01 | 7.99 | 19.02 | 54 | -26.99 | 287.4 | Vertical | AV | Pass |
| 3 | 4719.3750 | 35.77 | 14.81 | 20.96 | 54 | -18.23 | 24.5 | Vertical | AV | Pass |
| 4 | 8452.5000 | 30.74 | 37.18 | -6.44 | 54 | -23.26 | 0 | Vertical | AV | Pass |
| 5 | 11037.0000 | 37.63 | 39.47 | -1.84 | 54 | -16.37 | 4.9 | Vertical | AV | Pass |
| 6 | 14443.5000 | 41.38 | 40.92 | 0.46 | 54 | -12.62 | 319 | Vertical | AV | Pass |

11a, 1 GHz to 18 GHz, Channel (5320 MHz), ANT H



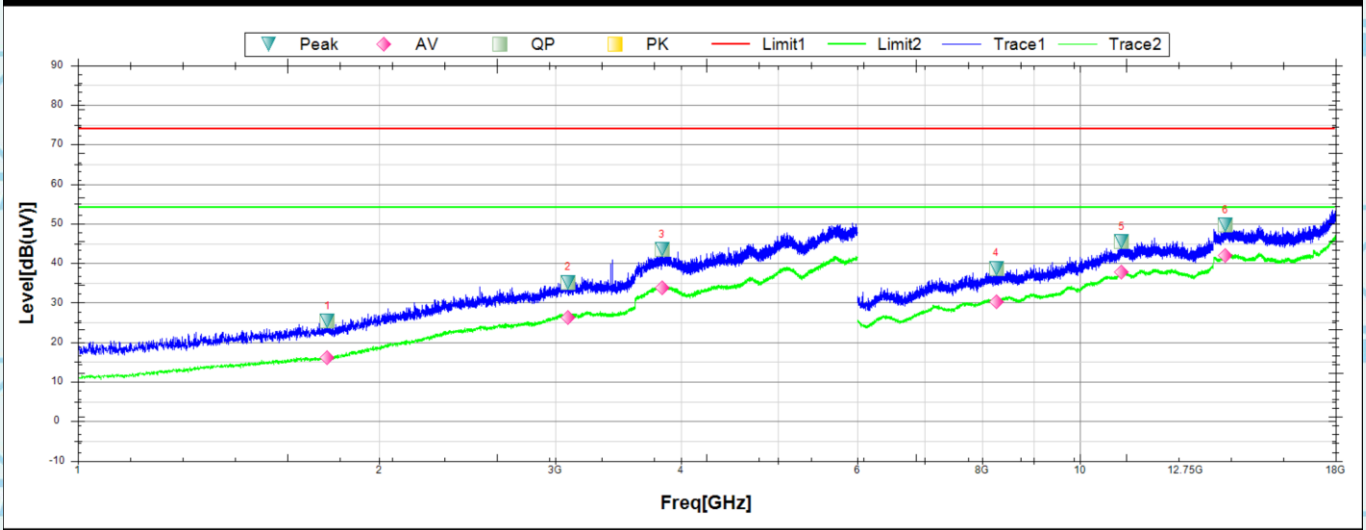

**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1801.2500 | 25.01 | 0.78 | 24.23 | 74 | -48.99 | 340 | Horizontal | PK | Pass |
| 2 | 2574.3750 | 36.12 | 5.87 | 30.25 | 74 | -37.88 | 65 | Horizontal | PK | Pass |
| 3 | 4686.2500 | 45.67 | 14.75 | 30.92 | 74 | -28.33 | 246.8 | Horizontal | PK | Pass |
| 4 | 8274.0000 | 37.95 | 37.11 | 0.84 | 74 | -36.05 | 310.5 | Horizontal | PK | Pass |
| 5 | 11448.0000 | 45.63 | 39.1 | 6.53 | 74 | -28.37 | 359.5 | Horizontal | PK | Pass |
| 6 | 14215.5000 | 50.79 | 41.22 | 9.57 | 74 | -23.21 | -0.1 | Horizontal | PK | Pass |

**Final Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB (uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1801.2500 | 16.03 | 0.78 | 15.25 | 54 | -37.97 | 340 | Horizontal | AV | Pass |
| 2 | 2574.3750 | 23.67 | 5.87 | 17.8 | 54 | -30.33 | 65 | Horizontal | AV | Pass |
| 3 | 4686.2500 | 35.81 | 14.75 | 21.06 | 54 | -18.19 | 246.8 | Horizontal | AV | Pass |
| 4 | 8274.0000 | 30.34 | 37.11 | -6.77 | 54 | -23.66 | 310.5 | Horizontal | AV | Pass |
| 5 | 11448.0000 | 37.73 | 39.1 | -1.37 | 54 | -16.27 | 359.5 | Horizontal | AV | Pass |
| 6 | 14215.5000 | 41.77 | 41.22 | 0.55 | 54 | -12.23 | -0.1 | Horizontal | AV | Pass |

11a, 1 GHz to 18 GHz, Channel (5320 MHz), ANT V



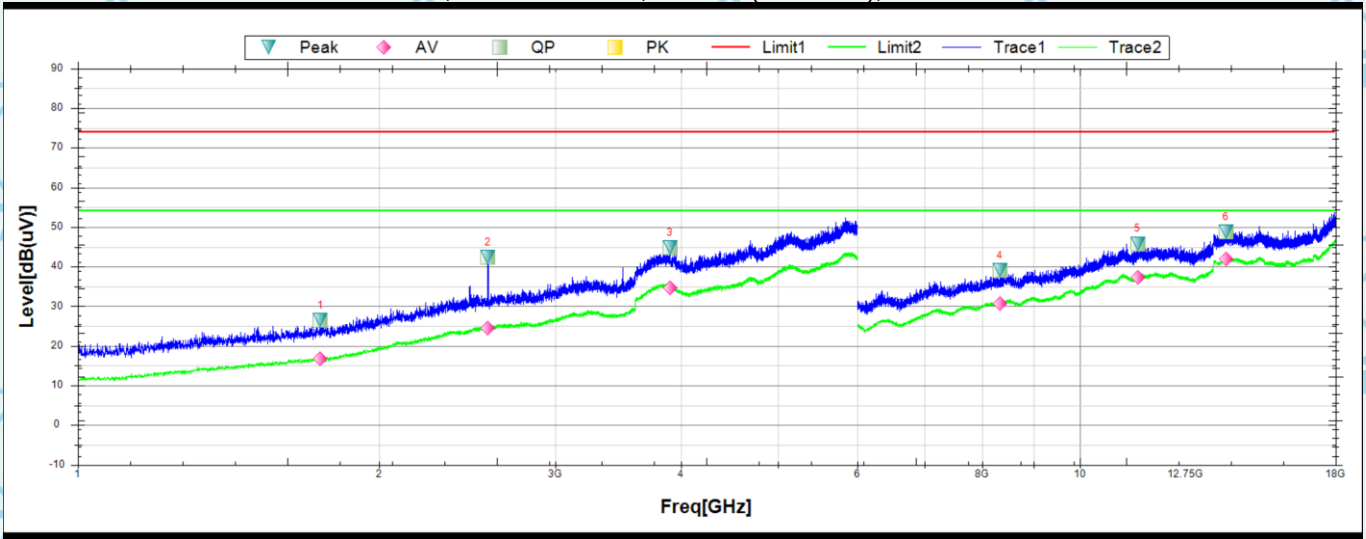

**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1775.6250 | 25.35 | 0.64 | 24.71 | 74 | -48.65 | 81.8 | Vertical | PK | Pass |
| 2 | 3086.8750 | 35.17 | 7.9 | 27.27 | 74 | -38.83 | 1.9 | Vertical | PK | Pass |
| 3 | 3830.6250 | 43.38 | 10.87 | 32.51 | 74 | -30.62 | 20.1 | Vertical | PK | Pass |
| 4 | 8254.5000 | 38.72 | 37.1 | 1.62 | 74 | -35.28 | 58.2 | Vertical | PK | Pass |
| 5 | 11016.0000 | 45.36 | 39.49 | 5.87 | 74 | -28.64 | 185 | Vertical | PK | Pass |
| 6 | 13980.0000 | 49.55 | 41.45 | 8.1 | 74 | -24.45 | 213.6 | Vertical | PK | Pass |

**Final Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB (uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1775.6250 | 16.01 | 0.64 | 15.37 | 54 | -37.99 | 81.8 | Vertical | AV | Pass |
| 2 | 3086.8750 | 26.17 | 7.9 | 18.27 | 54 | -27.83 | 1.9 | Vertical | AV | Pass |
| 3 | 3830.6250 | 33.86 | 10.87 | 22.99 | 54 | -20.14 | 20.1 | Vertical | AV | Pass |
| 4 | 8254.5000 | 30.31 | 37.1 | -6.79 | 54 | -23.69 | 58.2 | Vertical | AV | Pass |
| 5 | 11016.0000 | 37.83 | 39.49 | -1.66 | 54 | -16.17 | 185 | Vertical | AV | Pass |
| 6 | 13980.0000 | 41.9 | 41.45 | 0.45 | 54 | -12.1 | 213.6 | Vertical | AV | Pass |

11a, 1 GHz to 18 GHz, Channel (5500 MHz), ANT H




**Susputed Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB(uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1747.5000 | 26.44 | 0.5 | 25.94 | 74 | -47.56 | 20.1 | Horizontal | PK | Pass |
| 2 | 2568.1250 | 42.45 | 5.87 | 36.58 | 74 | -31.55 | 360.1 | Horizontal | PK | Pass |
| 3 | 3901.8750 | 44.73 | 11.25 | 33.48 | 74 | -29.27 | 6.6 | Horizontal | PK | Pass |
| 4 | 8326.5000 | 38.95 | 37.13 | 1.82 | 74 | -35.05 | 359.1 | Horizontal | PK | Pass |
| 5 | 11422.5000 | 45.78 | 39.12 | 6.66 | 74 | -28.22 | 330.8 | Horizontal | PK | Pass |
| 6 | 13990.5000 | 48.86 | 41.48 | 7.38 | 74 | -25.14 | 61.8 | Horizontal | PK | Pass |

**Final Data List**

| NO. | Freq. [MHz] | Reading [dB(uV)] | Factor [dB] | Level [dB (uV)] | Limit [dB] | Margin [dB] | Deg [°] | Polarity | Trace | Verdict |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1747.5000 | 16.76 | 0.5 | 16.26 | 54 | -37.24 | 20.1 | Horizontal | AV | Pass |
| 2 | 2568.1250 | 24.37 | 5.87 | 18.5 | 54 | -29.63 | 360.1 | Horizontal | AV | Pass |
| 3 | 3901.8750 | 34.7 | 11.25 | 23.45 | 54 | -19.3 | 6.6 | Horizontal | AV | Pass |
| 4 | 8326.5000 | 30.62 | 37.13 | -6.51 | 54 | -23.38 | 359.1 | Horizontal | AV | Pass |
| 5 | 11422.5000 | 37.29 | 39.12 | -1.83 | 54 | -16.71 | 330.8 | Horizontal | AV | Pass |
| 6 | 13990.5000 | 41.9 | 41.48 | 0.42 | 54 | -12.1 | 61.8 | Horizontal | AV | Pass |