| | | | | |
|---|---|---|---|---|
| **Prüfbericht-Nr.:** *Test report No.:* | **50084596 004** | **Auftrags-Nr.:** *Order No.:* | 164088664 | Seite 1 von 22 *Page 1 of 22* |
| **Kunden-Referenz-Nr.:** *Client reference No.:* | N/A | **Auftragsdatum:** *Order date.:* | 22.03.2017 | |
| **Auftraggeber:** *Client:* | **Lightcomm Technology Co., Ltd.** RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PUI WAN STREET, FO TAN SHATIN NEW TERRITORIES HONG KONG | | | |
| **Prüfgegenstand:** *Test item:* | Tablet PC | | | |
| **Bezeichnung / Typ-Nr.:** *Identification / Type No.:* | MID7006-L, DL7006, MID7006A-L, DL7006-KB, DL7006KB, DL70XXXXXX (X can be 0~9, A~Z) (DIGILAND) | | | |
| **Auftrags-Inhalt:** *Order content:* | FCC approval | | | |
| **Prüfgrundlage:** *Test specification:* | CFR47 FCC Part 15: Subpart E Section 15.407<br>CFR47 FCC Part 15: Subpart C Section 15.207<br>CFR47 FCC Part 15: Subpart C Section 15.209 | | | |

| | | |
|---|---|---|
| **Wareneingangsdatum:** *Date of receipt:* | 03.04.2017 | Please refer to photo documents |
| **Prüfmuster-Nr.:** *Test sample No.:* | A000520683-002<br>A000520683-003 | |
| **Prüfzeitraum:** *Testing period:* | 07.04.2017 - 18.05.2017 | |
| **Ort der Prüfung:** *Place of testing:* | SHENZHEN ALPHA PRODUCT TESTING CO., LTD. | |
| **Prüflaboratorium:** *Testing laboratory:* | TÜV Rheinland (Shenzhen) Co., Ltd. | |
| **Prüfergebnis*:** *Test result*:* | Pass | |

**geprüft von** / *tested by:*

01.06.2017 — Andy Yan / Project Manager

| **Datum** *Date* | **Name/Stellung** *Name/Position* | **Unterschrift** *Signature* |
|---|---|---|

**kontrolliert von** / *reviewed by:*

01.06.2017 — Owen Tian / Technical Certifier

| **Datum** *Date* | **Name/Stellung** *Name/Position* | **Unterschrift** *Signature* |
|---|---|---|

**Sonstiges** / *Other:*

Only the 5GHz Wi-Fi 802.11 a function is reported in this test report.
FCC ID: XMF-MID7006
For model difference information refer to clause 3.1

| | |
|---|---|
| **Zustand des Prüfgegenstandes bei Anlieferung:** *Condition of the test item at delivery:* | Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged:* |

| | | | | | |
|---|---|---|---|---|---|
| * Legende: | 1 = sehr gut | 2 = gut | 3 = befriedigend | 4 = ausreichend | 5 = mangelhaft |
| | P(ass) = entspricht o.g. Prüfgrundlage(n) | | F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | N/A = nicht anwendbar | N/T = nicht getestet |
| Legend: | 1 = very good | 2 = good | 3 = satisfactory | 4 = sufficient | 5 = poor |
| | P(ass) = passed a.m. test specifications(s) | | F(ail) = failed a.m. test specifications(s) | N/A = not applicable | N/T = not tested |

# TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT**
*RESULT: Pass*

**5.1.2 PEAK OUTPUT POWER**
*RESULT: Pass*

**5.1.3 26DB BANDWIDTH**
*RESULT: Pass*

**5.1.4 99% BANDWIDTH**
*RESULT: Pass*

**5.1.5 6DB BANDWIDTH**
*RESULT: Pass*

**5.1.6 POWER SPECTRAL DENSITY**
*RESULT: Pass*

**5.1.7 SPURIOUS EMISSION**
*RESULT: Pass*

**5.1.8 CONDUCTED EMISSIONS**
*RESULT: Pass*

# CONTENTS

# 1. General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Wi-Fi 802.11a of Conducted Testing

Appendix B: Test Results of Wi-Fi 802.11a of AC Conducted and Radiated Emission

# 2. Test Sites

## 2.1 Test Facilities

SHENZHEN ALPHA PRODUCT TESTING CO., LTD.

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China

FCC Registration No.: 203110

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

| **Radio Spectrum Test** | | | | |
|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Cal. Until** |
| Signal Analyzer | Agilent | N9020A | MY499100060 | 2017.09.28 |
| | | | | |
| **Spurious Emission** | | | | |
| **Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Cal. Until** |
| Loop Antenna | SCHWARZBECK | FMZB 1519B | 00005 | 2018.09.28 |
| Bilog Antenna | SCHWARZBECK | VULB 9168 | 9168#627 | 2018.09.29 |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA 9120 D(1201) | 2018.09.29 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA 9170 D(1432) | 2019.01.20 |
| PreAmplifier | Agilent | 8449B | 3008A02664 | 2017.09.28 |
| Test Receiver | ROHDE&SCHWARZ | ESR | 1316.3003K03-102082-Wa | 2017.09.28 |
| Spectrum analyzer | Agilent | E4407B | MY49510055 | 2017.09.28 |
| | | | | |
| **Conducted Emission on AC Mains** | | | | |
| **Equipment** | **Manufacturer** | **Model No.** | **Serial No.** | **Cal. Until** |
| Test Receiver | ROHDE&SCHWARZ | ESCI | 101165 | 2017.09.28 |
| L.I.S.N. | SCHWARZBECK | NSLK8126 | 8126-466 | 2017.09.28 |
| L.I.S.N. | ROHDE&SCHWARZ | ENV216 | 101043 | 2017.09.28 |
| Pulse Limiter | SCHWARZBECK | 9516F | 9618 | 2017.09.28 |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

## 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty**

| **Item** | | **Extended Uncertainty** |
|---|---|---|
| Conducted Emission | | ± 2.74 dB |
| Radiated Emission (Up to 1GHz) | Field strength (dBµV/m) | ± 3.80 dB |
| Radiated Emission (above 1000MHz) | Field strength (dBµV/m) | ± 4.16dB |
| Occupied Channel Bandwidth | | ±3.68% |
| RF Output Power, Conducted | | ± 0.37dB |
| Power Spectral Density, Conducted | | ± 0.56 dB |
| Unwanted Emission, Conducted | | ± 3.0dB |
| Radio Frequency | | ± 5.4*10-8GHz |

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The SHENZHEN ALPHA PRODUCT TESTING CO., LTD. Test facility located at Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen City, Guangdong Province, P.R. China and Shenzhen Academy of Metrology& Quality Inspection Test facility located at No.4 Tongfa Rd, Xili, Shenzhen,Guangdong,china are listed on the US Federal Communications Commission list of facilities approved to perform measurements.

# 3. General Product Information

## 3.1 Product Function and Intended Use

The EUT is a Tabet PC device. It supports Wi-Fi 802.11a/ b/g/n and Bluetooth 4.2 (Dual mode) technology. This report is only for NII with Wi-Fi function.

Model difference description:
All the models in this reports are identical in the PCBA, Drivers, Enclosure etc. electronic aspects, the detail as below.

| Model No. | Detail |
|---|---|
| MID7006A-L, DL7006-KB | Excepting with Micro USB Port to connect the keyboard, with DC jack. All other electronic aspects are identical with the models. |
| MID7006-L, DL7006, DL70XXXXXX | Excepting without Micro USB Port to connect the keyboard, without DC jack. All other electronic aspects are identical with the other models. |

For details refer to the User Manual, Technical Description and Circuit Diagram.

## 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

| Technical Specification | Value |
|---|---|
| Kind of Equipment | Tablet PC |
| Type Designation | MID7006A-L, DL7006-KB, MID7006-L, DL7006, DL70XXXXXX |
| FCC ID | XMF-MID7006 |
| Equipment Type | Client |
| Operating Frequency band | 5150-5250MHz, 5745-5825MHz |
| Extreme Temperature Range | 0 °C ~ +40 °C |
| Operating Voltage | DC 3.7V 2100mAh via internal rechargeable Li-Poly battery<br>DC 5.0V 1.5A via AC/DC adapter for charging |
| Testing Voltage | Fully charged DC 3.7V internal rechargeable Li-Poly battery<br>DC 5.0V 1.5A via AC/DC adapter with 120V/60Hz input |
| Antenna Type | Integral Antenna |
| Antenna Gain | 3.94 dBi for U-NII-1 and 4.27dBi for U-NII-3 |

**Table 4: Technical Specification of 5GHz, 802.11a**

| | |
|---|---|
| Operating mode(s) / WiFi: | IEEE 802.11a |
| Test modulation | OFDM (BPSK, QPSK, 16-QAM, 64-QAM) |
| Transmit Frequency Range (MHz): | 5180 – 5240, 5745 - 5825 |
| Channel Number | 9 |
| Data Rate (Mbps) used for testing | 6, 9, 12, 18, 24, 36, 48, 54 |
| Maximum tune-up average output power (dBm): | 13.5 |
| Reported Max. Power data rate(Mbps) | 6 |

**Table 5: List of WLAN Channel of 5GHz 802.11a**

| 802.11a | | | | | |
|---|---|---|---|---|---|
| Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) |
| 36 | 5180 | 48 | 5240 | 157 | 5785 |
| 40 | 5200 | 149 | 5745 | 161 | 5805 |
| 44 | 5220 | 153 | 5765 | 165 | 5825 |

## 3.3 Independent Operation Modes

The basic operation modes are:

A. On, Wi-Fi mode (Band U-NII-1)
   1. Transmitting
      a. Low Channel
      b. Middle Channel
      c. High Channel

B. On, Wi-Fi mode (Band U-NII-3)
   1. Transmitting
      a. Low Channel
      b. Middle Channel
      c. High Channel

C. Normal Operation (WiFi Link within 5GHz band)

## 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

## 3.5 Submitted Documents

- Application Form
- Block Diagram
- Schematics
- Technical Description
- FCC/IC Label and Location Info
- Photo Document
- User Manual

# 4. Test Set-up and Operation Modes

## 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

## 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

## 4.3 Special Accessories and Auxiliary Equipment

**List of Accessories and Auxiliary Equipment**

| Description | Manufacturer | Model | Rating |
|---|---|---|---|
| Adapter | TEKA | TEKA006-0501500UKC | Input: AC100~240V 50/60Hz 0.3A, Output: DC 5V/1.5A |

## 4.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

**Diagram of Measurement Configuration for Radiation Test of below 1GHz**

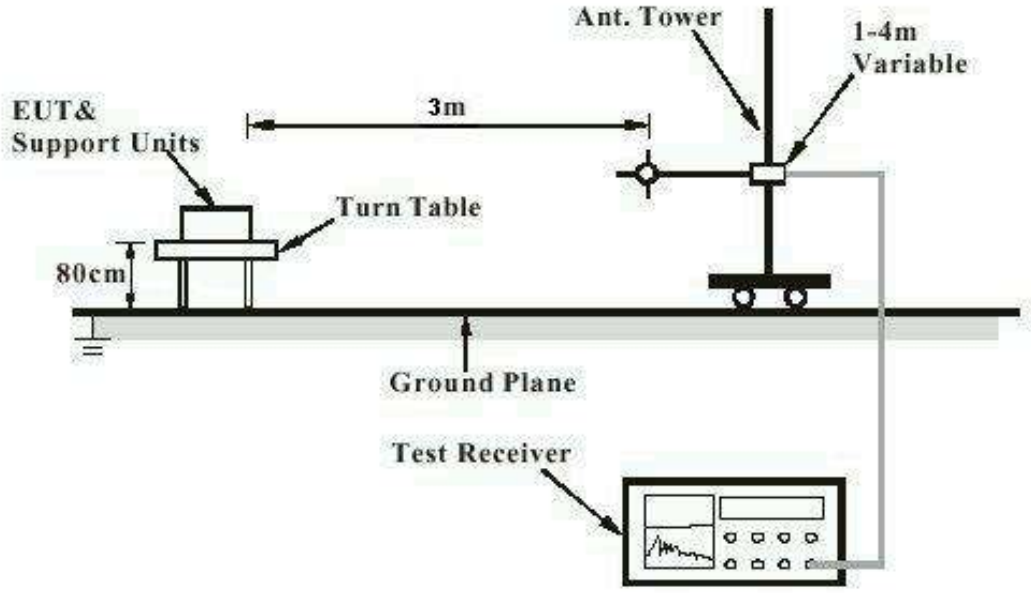



**Diagram of Measurement Configuration for Radiation Test of above 1GHz**

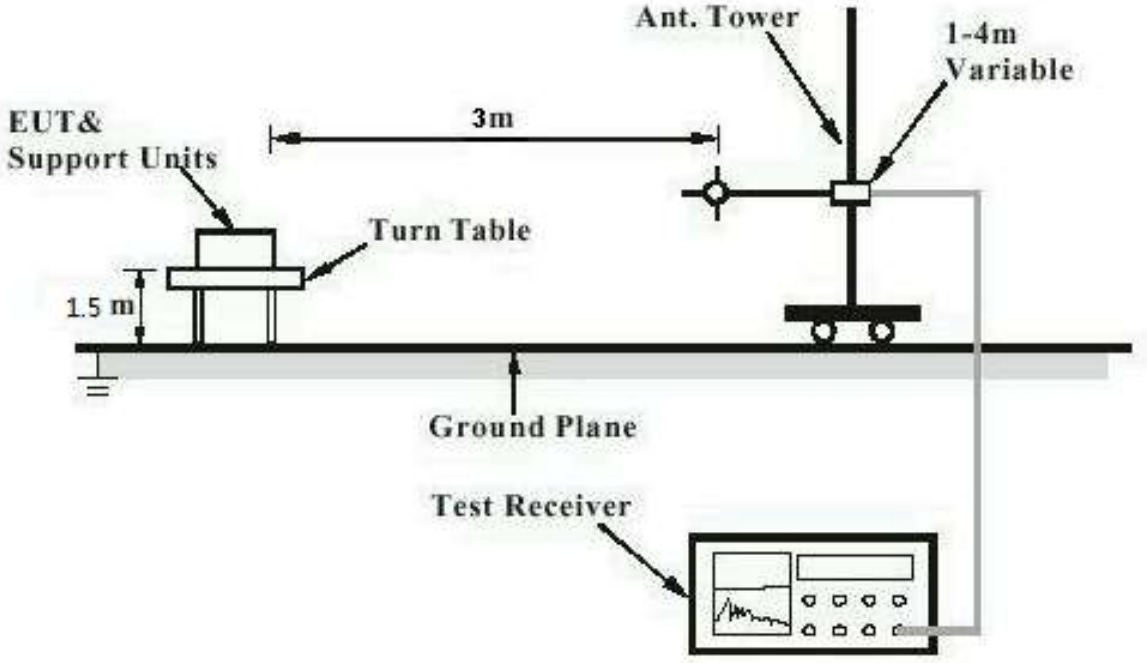


**Diagram of Measurement Equipment Configuration for Conduction Measurement**

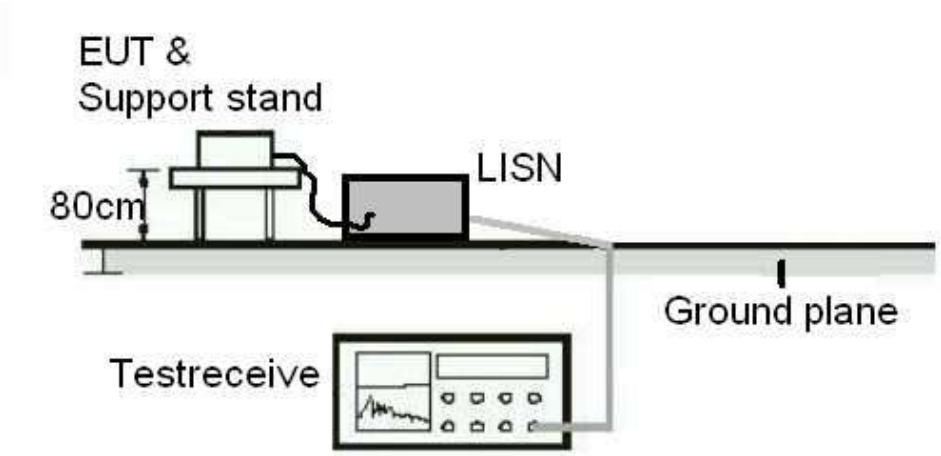
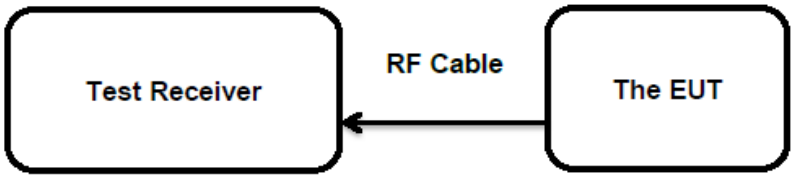



**Diagram of Measurement Equipment Configuration for Transmitter Measurement**



# 5. Test Results

## 5.1 Transmitter Requirement & Test Suites

### 5.1.1 Antenna Requirement

**RESULT:** **Pass**

| | | |
|---|---|---|
| Test standard | : | FCC Part 15.203<br>RSS-Gen Clause 8.3 |
| Limit | | The use of antennas with directional gains that do not exceed 6dBi |

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 3.94 dBi for U-NII-1 and 4.27dBi for U-NII-3, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

## 5.1.2 Peak Output Power

**RESULT:** **Pass**

| | | |
|---|---|---|
| Test date | : | 18.05.2017 |
| Test standard | : | FCC Part 15.407(a)(1)(iv)<br>FCC Part 15.407(a)(3) |
| Basic standard | : | ANSI C63.10: 2013 |
| Limit | : | 24dBm for FCC,<br>30dBm (Band U-NII-3) |
| Kind of test site | : | Shielded room |

**Test setup**

| | | |
|---|---|---|
| Test Channel | : | All channel |
| Operation Mode | : | A.1, B.1 |
| Ambient temperature | : | 25℃ |
| Relative humidity | : | 56% |
| Atmospheric pressure | : | 101kPa |

**Table 6: Test result of Peak Output Power of Band U-NII-1**

| Mode | Channel Frequency (MHz) | Max. Conducted output power (dBm) | Limit (dBm) |
|---|---|---|---|
| 802.11a | 5180 | 12.9 | 24 |
| | 5200 | 12.2 | 24 |
| | 5240 | 12.2 | 24 |

Note: Antenna Gain = 0.0dBi
Max_EIRP = Max. Conducted TX Power + Antenna Gain = 12.9+3.94 = 16.84dBm Less than 22.2dBm (10 + 10 log10B).

**Table 7: Test result of Peak Output Power of Band U-NII-3**

| Mode | Channel Frequency (MHz) | Conducted output power (dBm) | Limit (dBm) |
|---|---|---|---|
| 802.11a | 5745 | 11.9 | 30 |
| | 5785 | 12.1 | 30 |
| | 5825 | 12.9 | 30 |

Note: Antenna Gain = 0.0dBi
Max_EIRP = Max. Conducted TX Power + Ant. Gain = 12.9+ 4.27 = 17.17dBm < 36dBm.

## 5.1.3 26dB Bandwidth

**RESULT:** **Pass**

| | | |
|---|---|---|
| Date of testing | : | 13.04.2017 |
| Test standard | : | FCC Part 15.407(a)(5) |
| Basic standard | : | ANSI C63.10: 2013 |
| Kind of test site | : | Shielded room |

**Test setup**

| | | |
|---|---|---|
| Test Channel | : | All channel |
| Operation Mode | : | A.1, B.1 |
| Ambient temperature | : | 25℃ |
| Relative humidity | : | 56% |
| Atmospheric pressure | : | 101kPa |

**Table 8: Test result of 26dB Bandwidth Band U-NII-1**

| Mode | Channel Frequency (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) |
|---|---|---|---|
| 802.11a | 5180 | 23.2 | -- |
| | 5200 | 21.4 | |
| | 5240 | 24.2 | |

Note: 99% Occupied Bandwidth within the U-NII-1 band and 26dB Emission Bandwidth for reference.

For details refer to the test plots in Appendix A.

## 5.1.4 99% Bandwidth

**RESULT:** **Pass**

| | | |
|---|---|---|
| Date of testing | : | 13.04.2017 |
| Test standard | : | RSS-Gen clause 6.6 |
| Basic standard | : | ANSI C63.10: 2013 |
| Kind of test site | : | Shielded room |

**Test setup**

| | | |
|---|---|---|
| Test Channel | : | All channel |
| Operation Mode | : | A.1, B.1 |
| Ambient temperature | : | 25℃ |
| Relative humidity | : | 56% |
| Atmospheric pressure | : | 101kPa |

**Table 9: Test result of 99% Bandwidth Band U-NII-1**

| Mode | Channel Frequency (MHz) | 99% Bandwidth (MHz) | Limit (MHz) |
|---|---|---|---|
| 802.11a | 5180 | 16.6 | Within the Frequency band 5150-5250MHz |
| | 5200 | 16.6 | |
| | 5240 | 16.6 | |

**Note:** The frequency stability of 99% emission bandwidth is maintained within the U-NII-1 band of operation under all conditions (0~+40℃) of normal operation.

**Table 10: Test result of 99% Bandwidth of Band U-NII-3**

| Mode | Channel Frequency (MHz) | 99% Bandwidth (MHz) | Limit (MHz) |
|---|---|---|---|
| 802.11a | 5745 | 16.5 | Within the frequency band 5725-5850MHz |
| | 5785 | 16.4 | |
| | 5825 | 16.4 | |

**Note:** The frequency stability of 99% emission bandwidth is maintained within the U-NII-3 band of operation under all conditions (0~+40℃) of normal operation.

For details refer to the test plots in Appendix A.

## 5.1.5 6dB Bandwidth

**RESULT:** **Pass**

| | | |
|---|---|---|
| Date of testing | : | 13.04.2017 |
| Test standard | : | FCC Part 15.407(e)<br>RSS-247 clause 6.2.4(1) |
| Basic standard | : | ANSI C63.10: 2013 |
| Limit | : | 500kHz for 6dB bandwidth |
| Kind of test site | : | Shielded room |

**Test setup**

| | | |
|---|---|---|
| Test Channel | : | All channel |
| Operation Mode | : | A.1, B.1 |
| Ambient temperature | : | 25℃ |
| Relative humidity | : | 56% |
| Atmospheric pressure | : | 101kPa |

**Table 11: Test result of 6dB Bandwidth of Band U-NII-3**

| Mode | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) |
|---|---|---|---|
| 802.11a | 5745 | 15.2 | ≥0.5 |
| | 5785 | 15.1 | ≥0.5 |
| | 5825 | 16.1 | ≥0.5 |

For details refer to the test plots in Appendix A.

## 5.1.6 Power spectral density

**RESULT:** **Pass**

| | | |
|---|---|---|
| Date of testing | : | 2016-07-31 ~ 2016-09-02 |
| Test standard | : | FCC Part 15.407(a)(1)(iv)<br>FCC Part 15.407(a)(3)<br>RSS-247 clause 6.2.1(1)<br>RSS-247 clause 6.2.4(1) |
| Basic standard | : | ANSI C63.10: 2013 |
| Limit | : | 11dBm/MHz for FCC, 10dBm/MHz for IC (Band U-NII-1)<br>30dBm/500kHz (Band U-NII-3) |
| Kind of test site | : | Shield room |

**Test setup**

| | | |
|---|---|---|
| Test Channel | : | All channel |
| Operation mode | : | A.1, B.1 |
| Ambient temperature | : | 23.6℃ |
| Relative humidity | : | 53.4% |
| Atmospheric pressure | : | 102.8kPa |

**Table 12: Test result of power spectral density of Band U-NII-1**

| Mode | Channel Frequency (MHz) | Result (dBm/MHz) | Limit (dBm/MHz) |
|---|---|---|---|
| | | Conducted power spectral density | |
| 802.11a | 5180 | 6.73 | 11 |
| | 5200 | 6.17 | 11 |
| | 5240 | 6.96 | 11 |

Note: Antenna Gain = 4.5dBi

**Table 13: Test result of power spectral density of Band U-NII-3**

| Mode | Channel Frequency (MHz) | Result (dBm/500kHz) | Limit (dBm/500kHz) |
|---|---|---|---|
| 802.11a | 5745 | 2.15 | 30 |
| | 5785 | 2.29 | 30 |
| | 5825 | 2.21 | 30 |

For details refer to the test plots in Appendix A.

## 5.1.7 Spurious Emission

**RESULT:** **Pass**

| | | |
|---|---|---|
| Date of testing | : | 13.04.2017 – 09.05.2017 |
| Test standard | : | FCC part 15.407(b)<br>RSS-247 clause 6.2.1(2)<br>RSS-247 clause 6.2.4(2) |
| Basic standard | : | ANSI C63.10: 2013 |
| Limits | : | FCC part 15.209(a) |
| Kind of test site | : | 3m Semi-Anechoic Chamber & Anechoic Chamber |

**Test setup**

| | | |
|---|---|---|
| Test Channel | : | All channel |
| Operation mode | : | A.1, B.1 |
| Ambient temperature | : | 23.5℃ |
| Relative humidity | : | 51% |
| Atmospheric pressure | : | 101.6kPa |

The frequency range of testing is 9KHz to 40GHz, and no any emissions were found from 9KHz to 30MHz and 18GHz to 40GHz, hence the radiated emission from 9KHz to 30MHz and 18GHz to 40GHz were not reported. All the out of band e.i.r.p. emission for 5150-5350MHz and 5725-5850MHz are below the limit.

For details refer to the test plots in Appendix B.

## 5.1.8 Conducted emissions

**RESULT:** **Pass**

| | | |
|---|---|---|
| Date of testing | : | 07.04.2017 |
| Test standard | : | FCC Part 15.207<br>FCC part 15.407(b)(6)<br>RSS-Gen Clause 8.8 |
| Basic standard | : | ANSI C63.10: 2013 |
| Frequency range | : | 0.15 – 30MHz |
| Limits | : | FCC Part 15.207 |
| Kind of test site | : | Shield room |

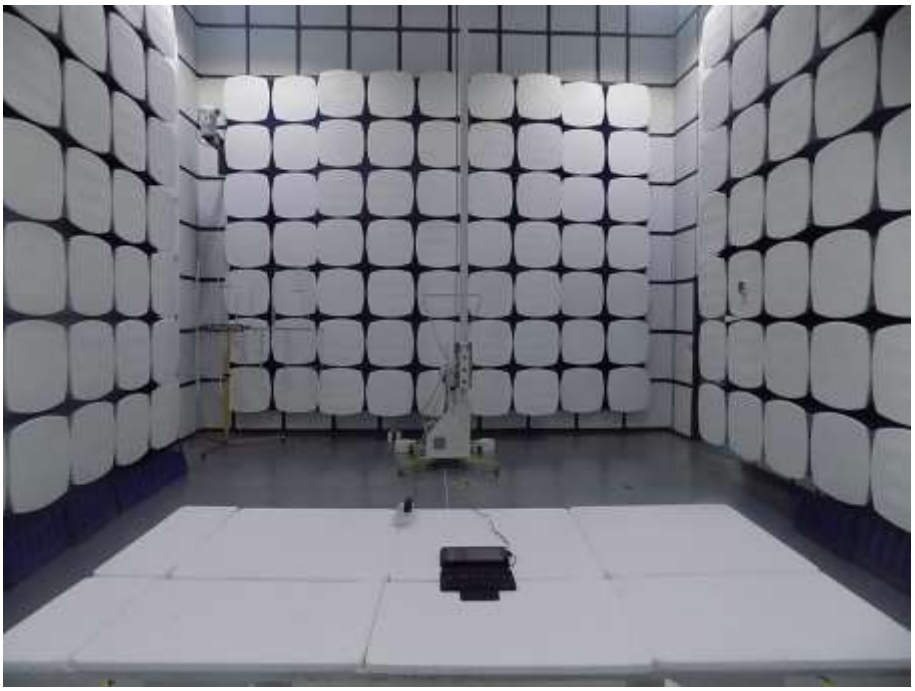
**Test setup**

| | | |
|---|---|---|
| Input Voltage | : | AC 120V, 60Hz |
| Operation Mode | : | A.1, B.1 |
| Earthing | : | Not Connected |
| Ambient temperature | : | 23.6℃ |
| Relative humidity | : | 54% |
| Atmospheric pressure | : | 101.6kPa |

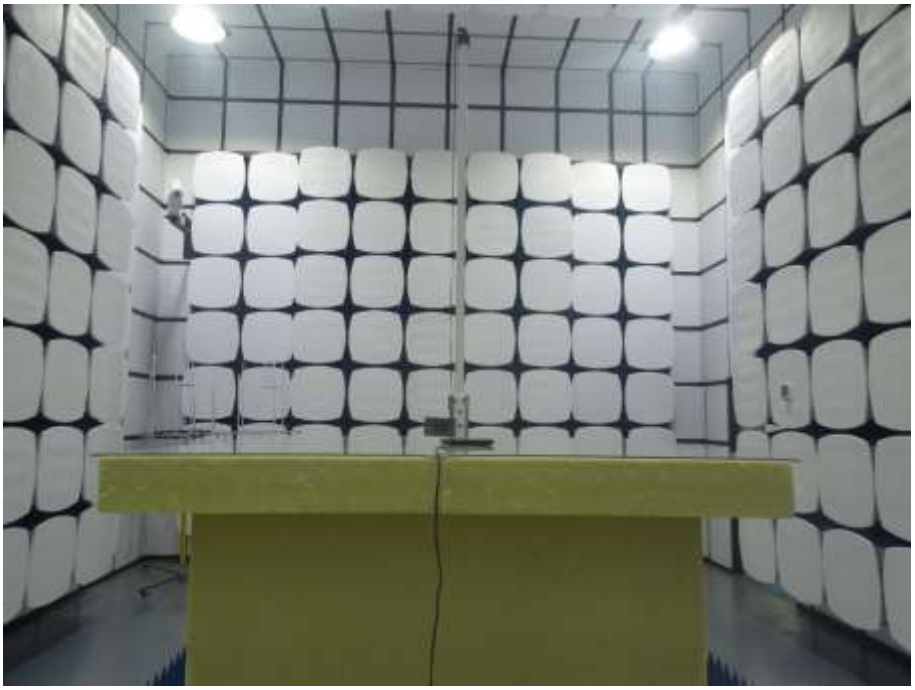
For details refer to the test plots in Appendix B.

# 6. Photographs of the Test Set-Up

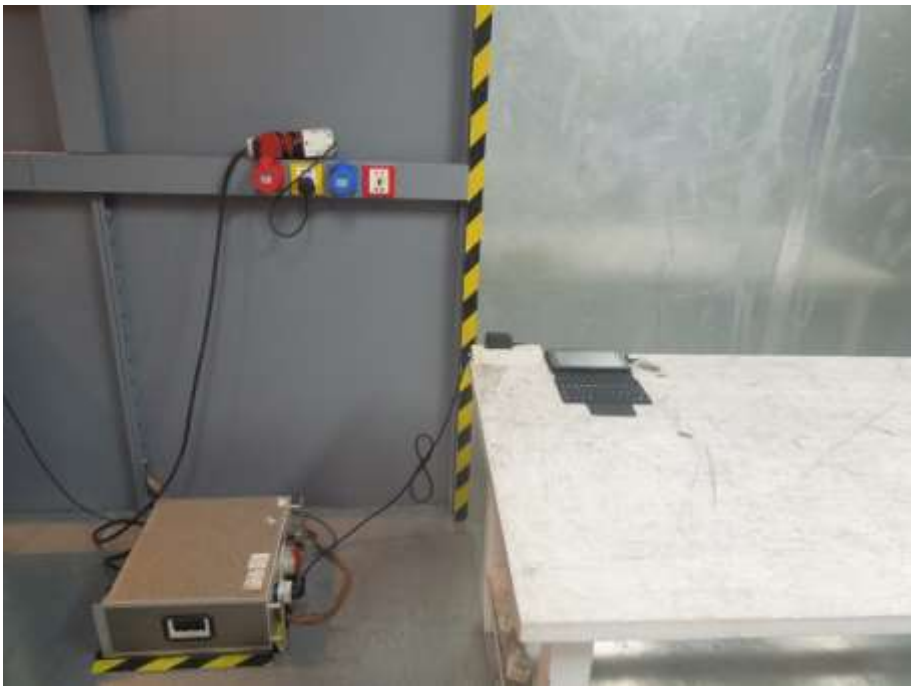
**Photograph 1: Set-up for Radiated Spurious Emission (Up to 1GHz)**



**Photograph 2: Set-up for Radiated Spurious Emission (Above 1GHz)**



**Photograph 3: Set-up for Conducted Emission on AC Mains**



# 7. List of Tables



# 8. List of Photographs

# Appendix A

## Test Results of Wi-Fi 802.11a of Conducted Testing

## Appendix A.1: Conducted Power Spectral Density

**Wi-Fi 802.11 a mode**



Agilent Spectrum Analyzer - Swept SA
Marker 1 5.241640000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 50/100
07:44:52 PM Apr 10, 2017
Mkr1 5.241 64 GHz
6.955 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 40.00 MHz
Sweep 1.000 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

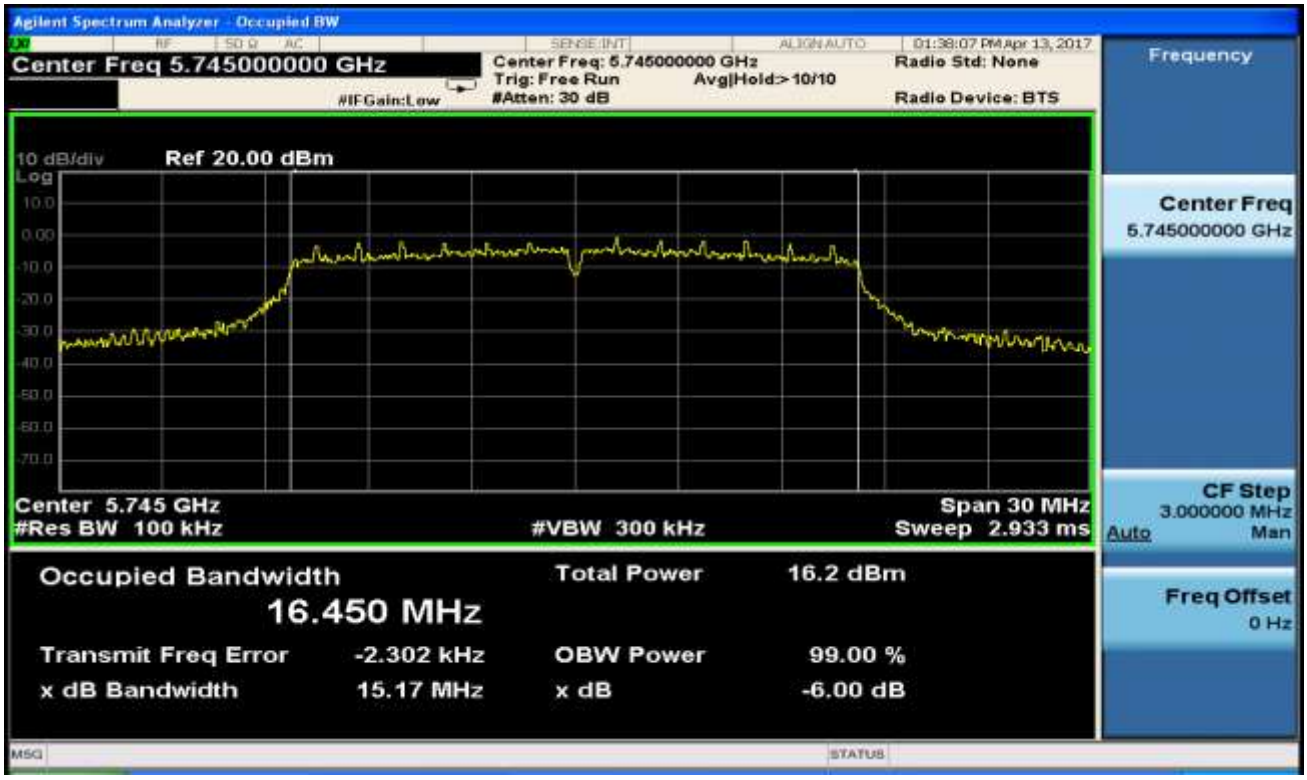

Agilent Spectrum Analyzer - Swept SA
Marker 1 5.743720000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:47:59 PM Apr 10, 2017
Mkr1 5.743 72 GHz
2.150 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 5.74500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40.00 MHz
Sweep 1.000 ms (1001 pts)
Theme
3D Color
3D Monochrome
Flat Color
Flat Monochrome

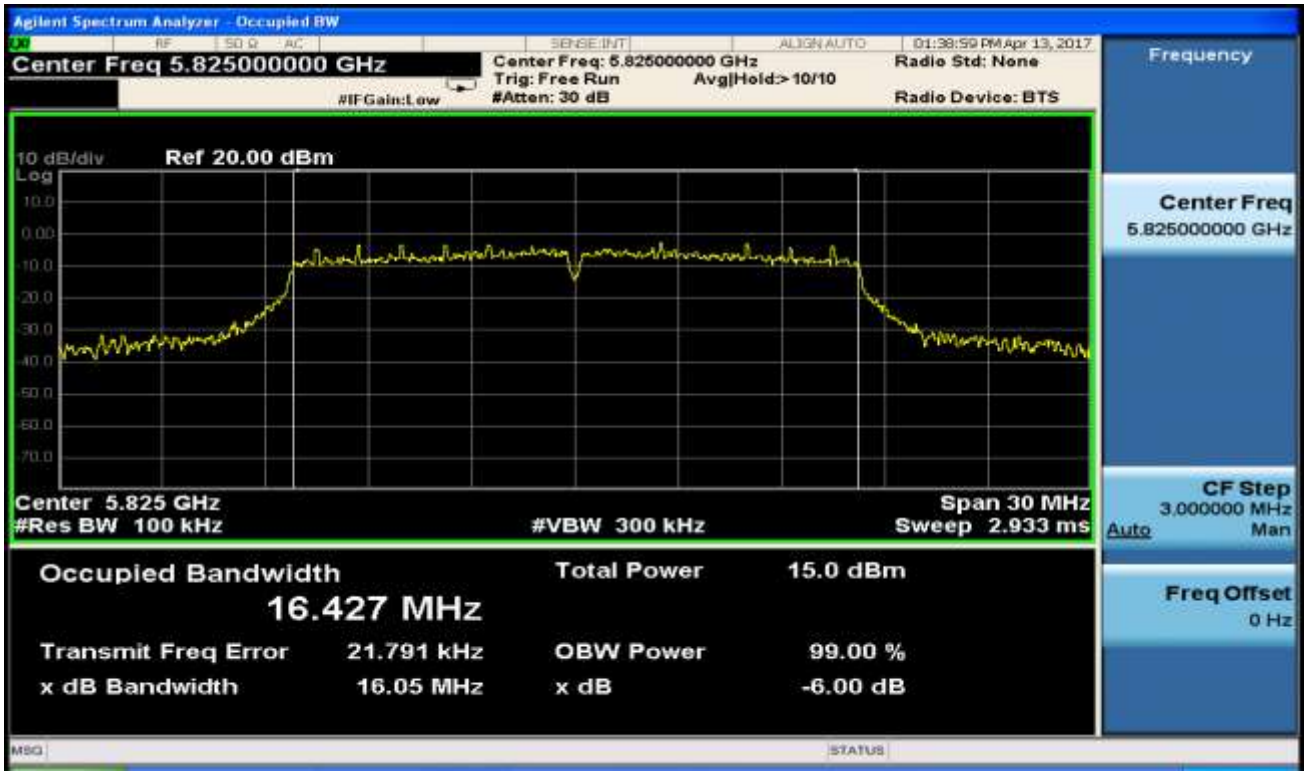

Agilent Spectrum Analyzer - Swept SA
Marker 1 5.785640000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:48:24 PM Apr 10, 2017
Mkr1 5.785 64 GHz
2.291 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 5.78500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40.00 MHz
Sweep 1.000 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

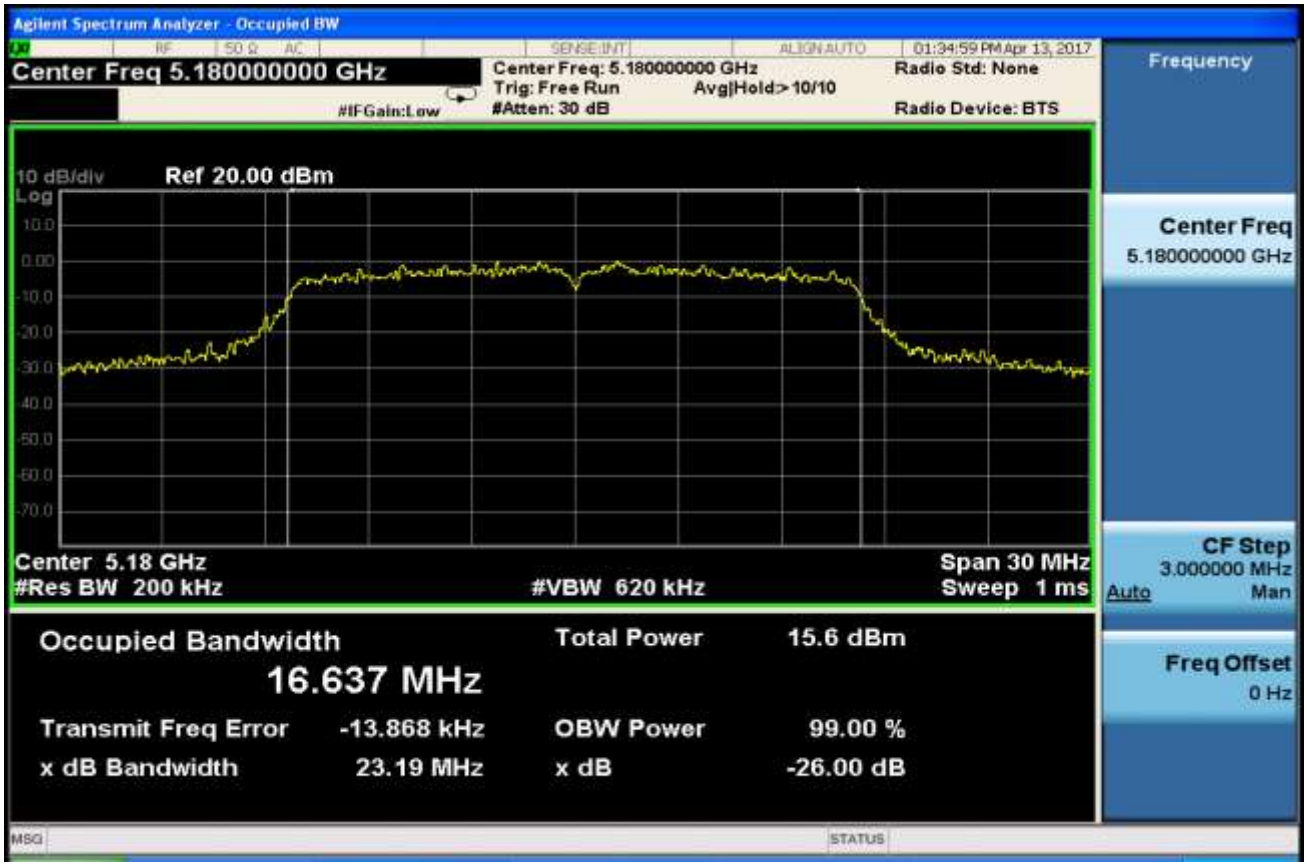

Agilent Spectrum Analyzer - Swept SA
Marker 1 5.825800000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:48:43 PM Apr 10, 2017
Mkr1 5.825 80 GHz
2.210 dBm
10 dB/div
Log
Ref 20.00 dBm
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40.00 MHz
Sweep 1.000 ms (1001 pts)
Peak Search
Next Peak
Next Pk Right
Next Pk Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

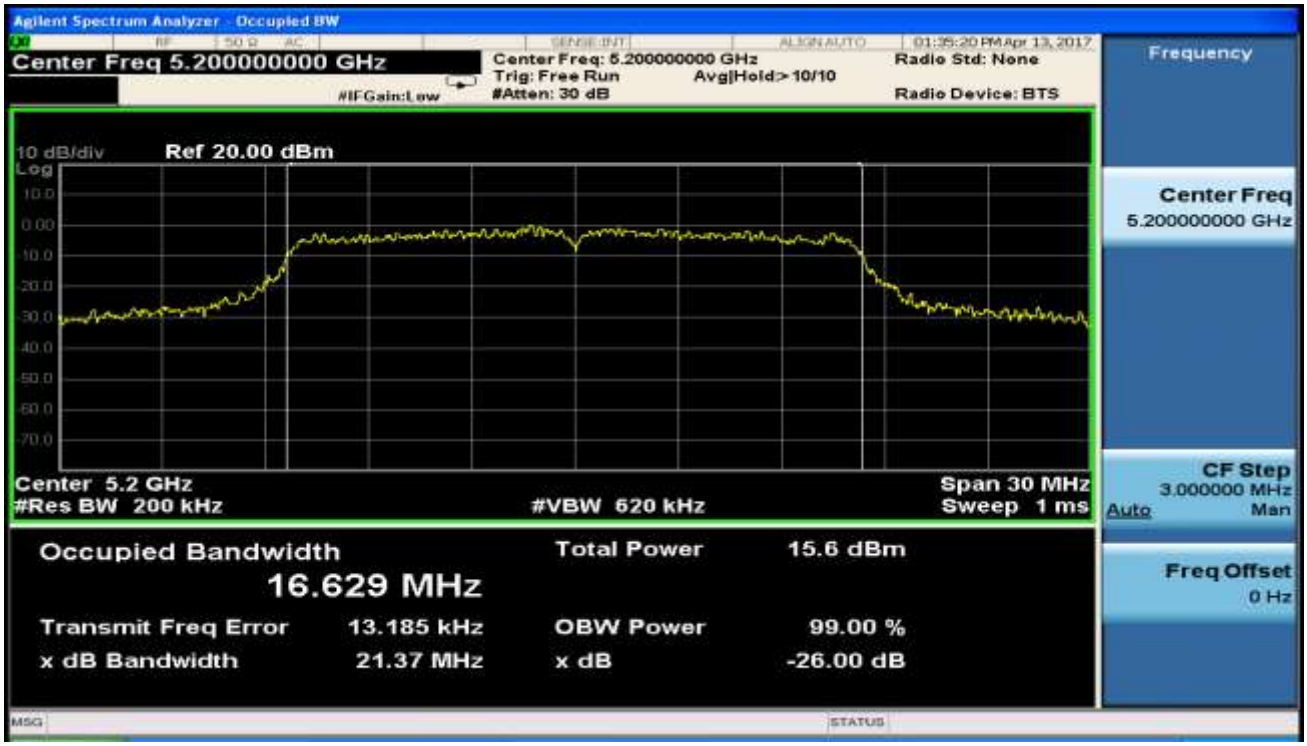
## Appendix A.2: Bandwidth

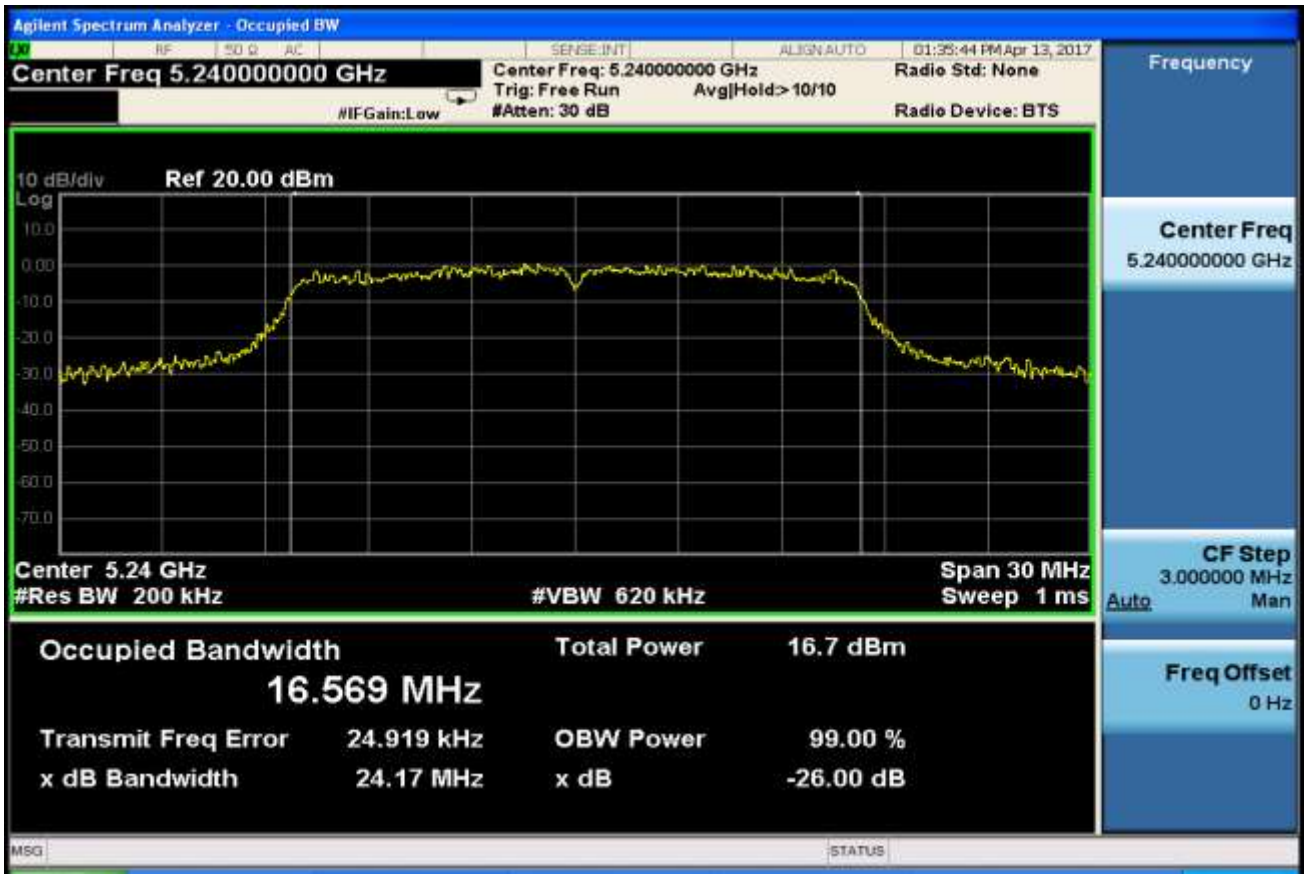
**Wi-Fi 802.11 a mode**





Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.825000000 GHz
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
01:38:59 PM Apr 13, 2017
Frequency
10 dB/div
Log
Ref 20.00 dBm
Center Freq
5.825000000 GHz
Center 5.825 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30 MHz
Sweep 2.933 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
16.427 MHz
Total Power
15.0 dBm
Transmit Freq Error
21.791 kHz
OBW Power
99.00 %
x dB Bandwidth
16.05 MHz
x dB
-6.00 dB
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.180000000 GHz
Center Freq: 5.180000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
01:34:59 PM Apr 13, 2017
Frequency
10 dB/div
Log
Ref 20.00 dBm
Center Freq
5.180000000 GHz
Center 5.18 GHz
#Res BW 200 kHz
#VBW 620 kHz
Span 30 MHz
Sweep 1 ms
CF Step
3.000000 MHz
Auto
Man
Occupied Bandwidth
16.637 MHz
Total Power
15.6 dBm
Transmit Freq Error
-13.868 kHz
OBW Power
99.00 %
x dB Bandwidth
23.19 MHz
x dB
-26.00 dB
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.200000000 GHz
Center Freq: 5.200000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
01:35:20 PM Apr 13, 2017
Frequency
10 dB/div
Log
Ref 20.00 dBm
Center 5.2 GHz
#Res BW 200 kHz
#VBW 620 kHz
Span 30 MHz
Sweep 1 ms
Occupied Bandwidth
16.629 MHz
Total Power
15.6 dBm
Transmit Freq Error
13.185 kHz
OBW Power
99.00 %
x dB Bandwidth
21.37 MHz
x dB
-26.00 dB
Center Freq
5.200000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS


Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.240000000 GHz
Center Freq: 5.240000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
01:35:44 PM Apr 13, 2017
Frequency
10 dB/div
Log
Ref 20.00 dBm
Center 5.24 GHz
#Res BW 200 kHz
#VBW 620 kHz
Span 30 MHz
Sweep 1 ms
Occupied Bandwidth
16.569 MHz
Total Power
16.7 dBm
Transmit Freq Error
24.919 kHz
OBW Power
99.00 %
x dB Bandwidth
24.17 MHz
x dB
-26.00 dB
Center Freq
5.240000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

# Appendix B

## Test Results of Wi-Fi 802.11a of Radiated Emission and Conducted Emission Testing

Note: The measurements of radiated spurious emission from 9KHz~30MHz and 18-40GHz were greater than 20dB below the limit, so Radiated Spurious Emissions from 9kHz – 30MHz and 18-40GHz tests were not reported. Only the worst case mode reported.

## Appendix B.1: Radiated Spurious Emissions

**Wi-Fi 802.11 a mode, 6 Mbps**
**30MHz - 1GHz**
**U-NII-1**

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

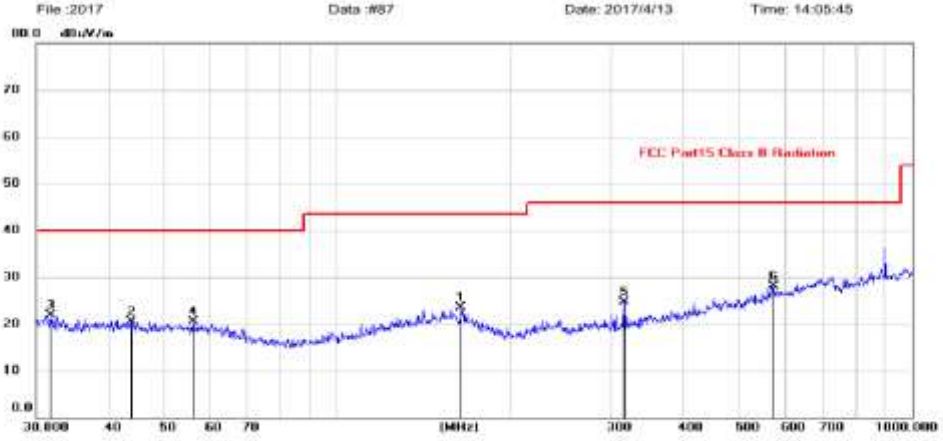
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5180
Note:

Polarization: *Horizontal*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#87 Date: 2017/4/13 Time: 14:05:45




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 164.3301 | 9.19 | 14.22 | 23.41 | 43.50 | -20.09 | peak | | | |
| 2 | | 43.8119 | 6.59 | 13.89 | 20.48 | 40.00 | -19.52 | peak | | | |
| 3 | | 31.7313 | 8.56 | 13.38 | 21.94 | 40.00 | -18.06 | peak | | | |
| 4 | | 56.1974 | 7.29 | 13.20 | 20.49 | 40.00 | -19.51 | peak | | | |
| 5 | | 316.5889 | 10.93 | 13.79 | 24.72 | 46.00 | -21.28 | peak | | | |
| 6 | * | 574.6258 | 8.98 | 19.04 | 28.02 | 46.00 | -17.98 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

F:\法检测试软件数据\2017\REPORT DATA-201 Page: 1 Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

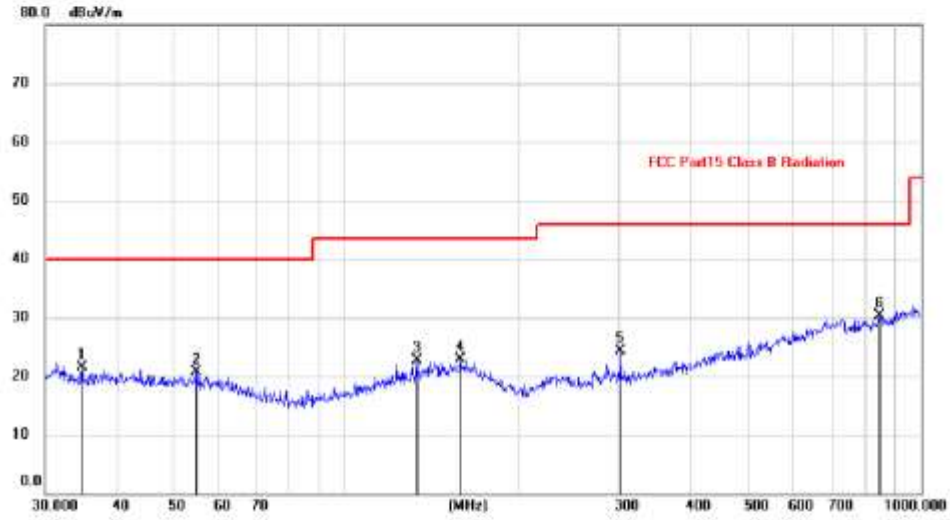
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5180
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#88 Date: 2017/4/13 Time: 14:06:22




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 34.8822 | 8.03 | 13.51 | 21.54 | 40.00 | -18.46 | peak | | | |
| 2 | | 55.0274 | 7.55 | 13.25 | 20.80 | 40.00 | -19.20 | peak | | | |
| 3 | | 132.6850 | 9.23 | 13.39 | 22.62 | 43.50 | -20.88 | peak | | | |
| 4 | | 158.1123 | 8.34 | 14.57 | 22.91 | 43.50 | -20.59 | peak | | | |
| 5 | | 301.4223 | 10.72 | 13.51 | 24.23 | 46.00 | -21.77 | peak | | | |
| 6 | * | 848.0563 | 7.71 | 22.68 | 30.39 | 46.00 | -15.61 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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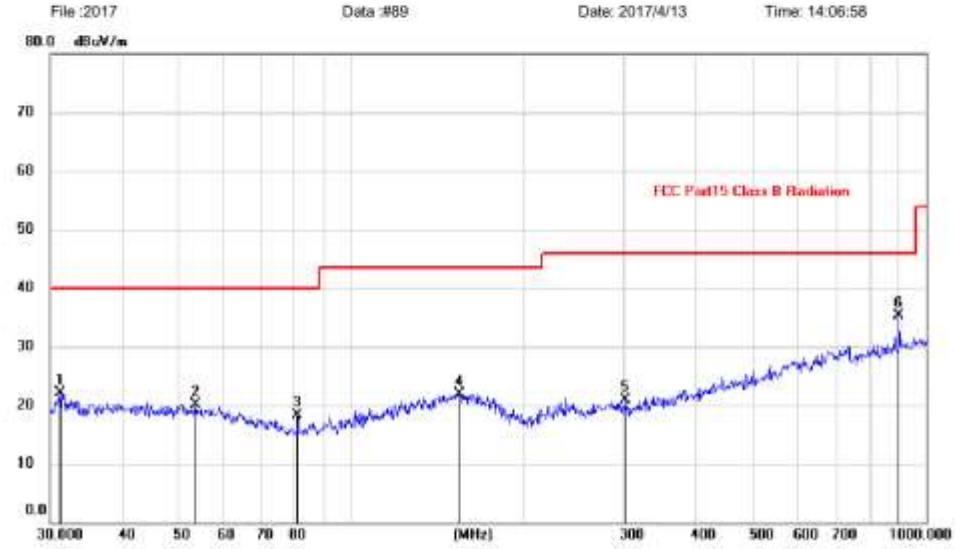
Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5200
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 31.2892 | 8.68 | 13.36 | 22.04 | 40.00 | -17.96 | peak | | | |
| 2 | | 53.8817 | 6.61 | 13.43 | 20.04 | 40.00 | -19.96 | peak | | | |
| 3 | | 80.9274 | 8.80 | 9.49 | 18.29 | 40.00 | -21.71 | peak | | | |
| 4 | | 154.2786 | 7.30 | 14.56 | 21.86 | 43.50 | -21.64 | peak | | | |
| 5 | | 301.4223 | 7.36 | 13.51 | 20.87 | 46.00 | -25.13 | peak | | | |
| 6 | * | 896.9965 | 12.50 | 22.90 | 35.40 | 46.00 | -10.60 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

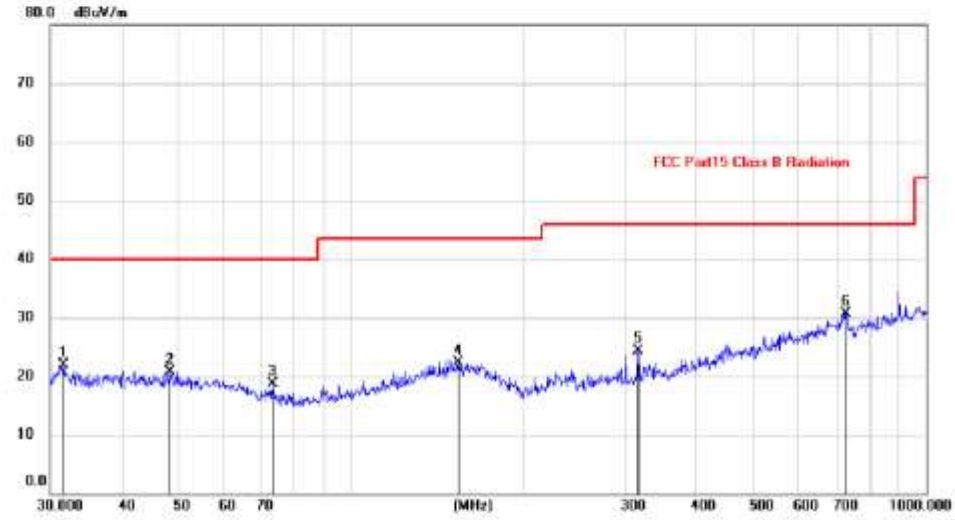
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5200
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#80 Date: 2017/4/13 Time: 14:07:38




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 31.7312 | 8.55 | 13.38 | 21.93 | 40.00 | -18.07 | peak | | | |
| 2 | | 48.5016 | 7.03 | 13.66 | 20.69 | 40.00 | -19.31 | peak | | | |
| 3 | | 73.1025 | 8.23 | 10.42 | 18.65 | 40.00 | -21.35 | peak | | | |
| 4 | | 153.7385 | 7.68 | 14.56 | 22.24 | 43.50 | -21.26 | peak | | | |
| 5 | | 316.5889 | 10.53 | 13.79 | 24.32 | 46.00 | -21.68 | peak | | | |
| 6 | * | 726.8052 | 9.36 | 21.33 | 30.69 | 46.00 | -15.31 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

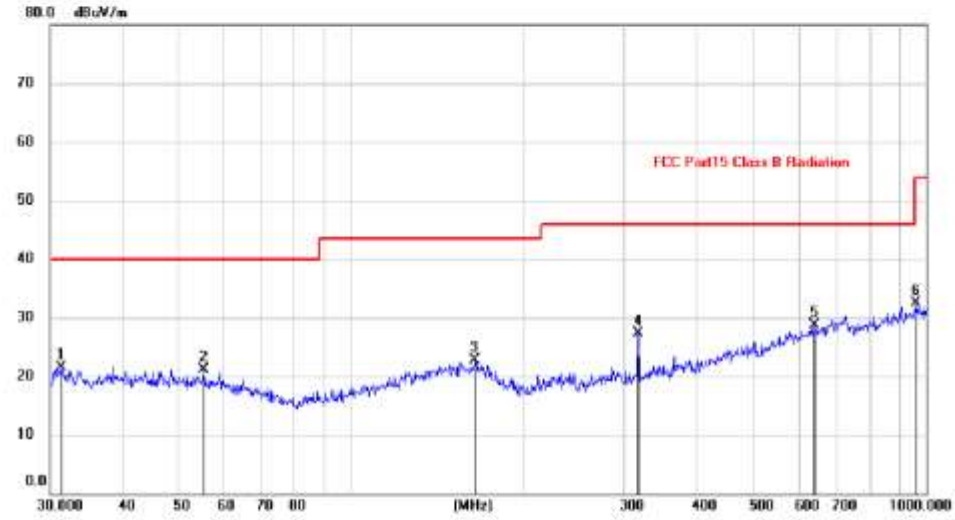
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5240
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#91 Date: 2017/4/13 Time: 14:08:13




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 31.3992 | 8.08 | 13.37 | 21.45 | 40.00 | -18.55 | peak | | | |
| 2 | | 55.4147 | 7.77 | 13.24 | 21.01 | 40.00 | -18.99 | peak | | | |
| 3 | | 163.7549 | 8.41 | 14.28 | 22.69 | 43.50 | -20.81 | peak | | | |
| 4 | | 316.5889 | 13.55 | 13.79 | 27.34 | 46.00 | -18.66 | peak | | | |
| 5 | * | 640.6110 | 8.64 | 20.07 | 28.71 | 46.00 | -17.29 | peak | | | |
| 6 | | 965.5420 | 8.58 | 23.88 | 32.46 | 54.00 | -21.54 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

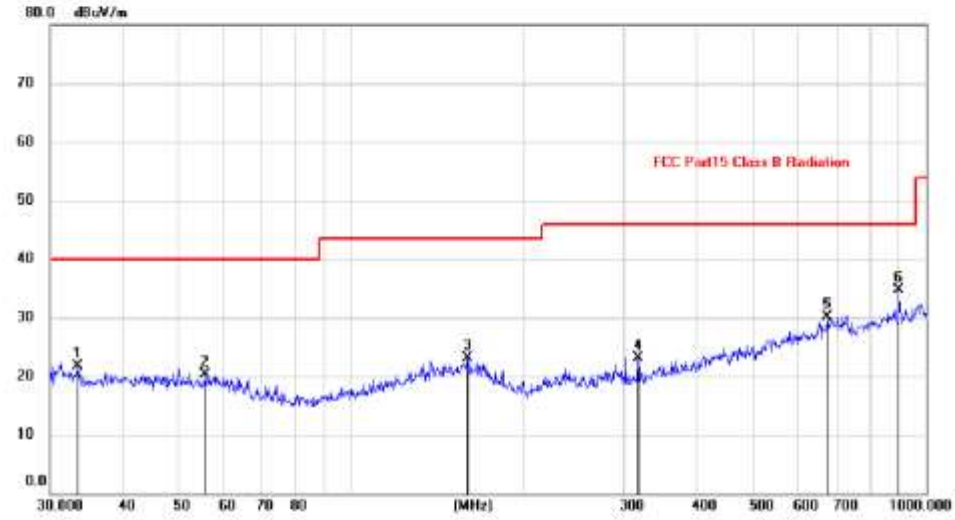
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5240
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#92 Date: 2017/4/13 Time: 14:08:48




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 33.4449 | 8.28 | 13.44 | 21.72 | 40.00 | -18.28 | peak | | | |
| 2 | | 55.6094 | 7.03 | 13.24 | 20.27 | 40.00 | -19.73 | peak | | | |
| 3 | | 159.2251 | 8.44 | 14.58 | 23.02 | 43.50 | -20.48 | peak | | | |
| 4 | | 316.5889 | 9.41 | 13.79 | 23.20 | 46.00 | -22.80 | peak | | | |
| 5 | | 672.8444 | 9.53 | 20.66 | 30.19 | 46.00 | -15.81 | peak | | | |
| 6 | * | 896.9965 | 11.71 | 22.90 | 34.61 | 46.00 | -11.39 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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**U-NII-3**

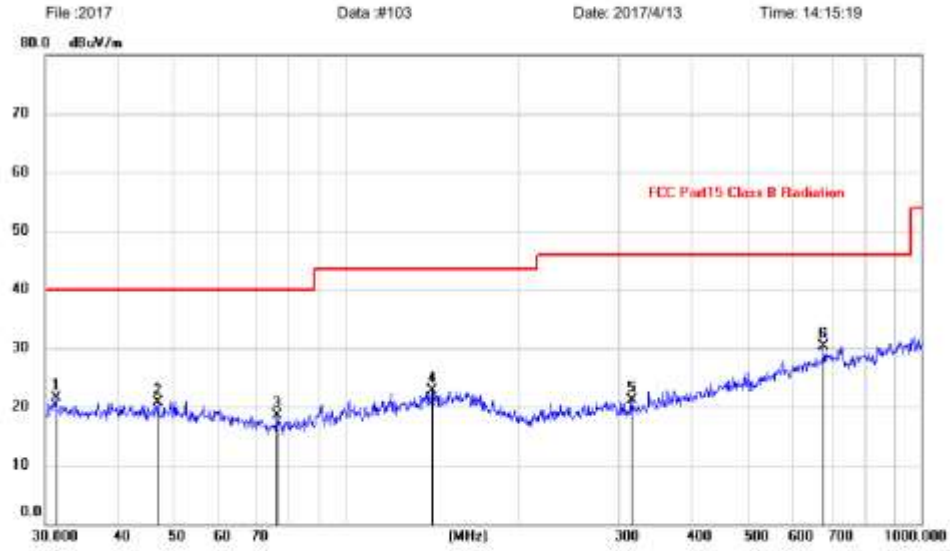
Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5745
Note:

Polarization: *Horizontal*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 31.2893 | 8.24 | 13.36 | 21.60 | 40.00 | -18.40 | peak | | | |
| 2 | | 47.1600 | 6.94 | 13.68 | 20.62 | 40.00 | -19.38 | peak | | | |
| 3 | | 75.9773 | 8.41 | 10.15 | 18.56 | 40.00 | -21.44 | peak | | | |
| 4 | | 141.3298 | 8.84 | 13.93 | 22.77 | 43.50 | -20.73 | peak | | | |
| 5 | | 315.4806 | 7.36 | 13.77 | 21.13 | 46.00 | -24.87 | peak | | | |
| 6 | * | 677.5798 | 9.36 | 20.97 | 30.33 | 46.00 | -15.67 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

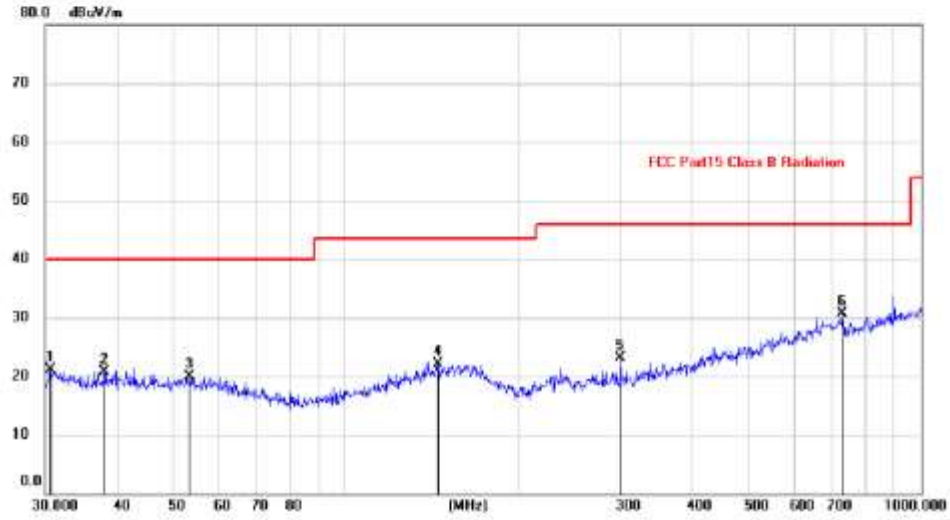
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5745
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#104 Date: 2017/4/13 Time: 14:15:48




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 30.7454 | 7.69 | 13.32 | 21.01 | 40.00 | -18.99 | peak | | | |
| 2 | | 38.0782 | 6.82 | 13.84 | 20.66 | 40.00 | -19.34 | peak | | | |
| 3 | | 53.5052 | 6.57 | 13.43 | 20.00 | 40.00 | -20.00 | peak | | | |
| 4 | | 144.8417 | 8.03 | 14.17 | 22.20 | 43.50 | -21.30 | peak | | | |
| 5 | | 301.4223 | 9.67 | 13.51 | 23.18 | 46.00 | -22.82 | peak | | | |
| 6 | * | 731.9202 | 9.35 | 21.37 | 30.72 | 46.00 | -15.28 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

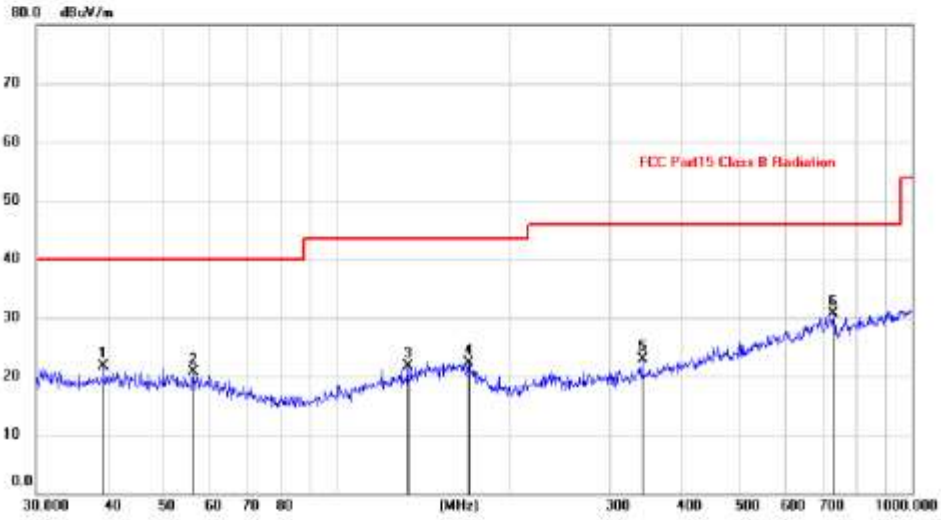
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5785
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#105 Date: 2017/4/13 Time: 14:16:18




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 39.2991 | 7.54 | 14.21 | 21.75 | 40.00 | -18.25 | peak | | | |
| 2 | | 56.1974 | 7.48 | 13.20 | 20.68 | 40.00 | -19.32 | peak | | | |
| 3 | | 132.6850 | 8.34 | 13.39 | 21.73 | 43.50 | -21.77 | peak | | | |
| 4 | | 169.5990 | 8.50 | 13.80 | 22.30 | 43.50 | -21.20 | peak | | | |
| 5 | | 340.7816 | 8.39 | 14.43 | 22.82 | 46.00 | -23.18 | peak | | | |
| 6 | * | 731.9202 | 9.27 | 21.37 | 30.64 | 46.00 | -15.36 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

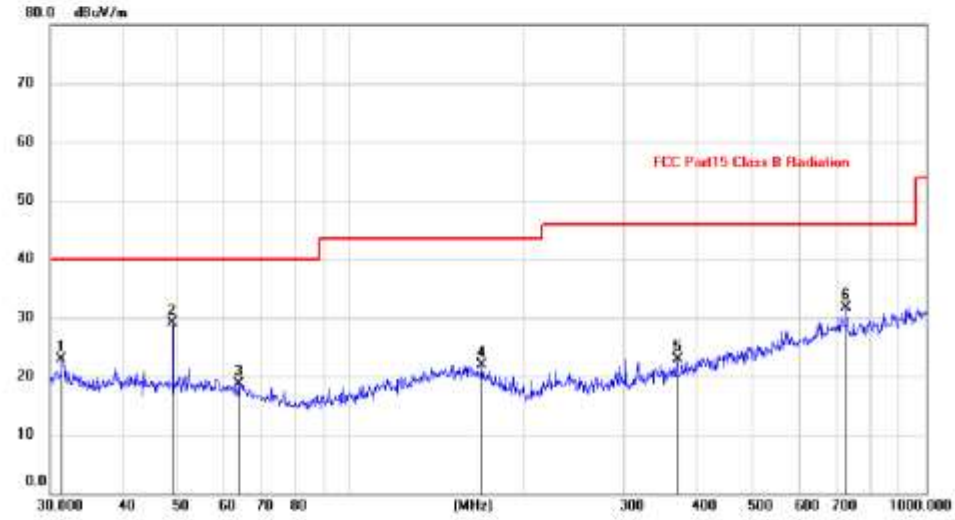
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5785
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#106 Date: 2017/4/13 Time: 14:16:37




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 31.3992 | 9.61 | 13.37 | 22.98 | 40.00 | -17.02 | peak | | | |
| 2 | * | 49.0144 | 15.43 | 13.64 | 29.07 | 40.00 | -10.93 | peak | | | |
| 3 | | 63.7588 | 6.57 | 12.21 | 18.78 | 40.00 | -21.22 | peak | | | |
| 4 | | 169.0054 | 8.13 | 13.85 | 21.98 | 43.50 | -21.52 | peak | | | |
| 5 | | 369.4047 | 7.82 | 15.15 | 22.97 | 46.00 | -23.03 | peak | | | |
| 6 | | 726.8052 | 10.32 | 21.33 | 31.65 | 46.00 | -14.35 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

F:\法拉测试软件数据\2017\REPORT DATA-201 Page: 1 Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

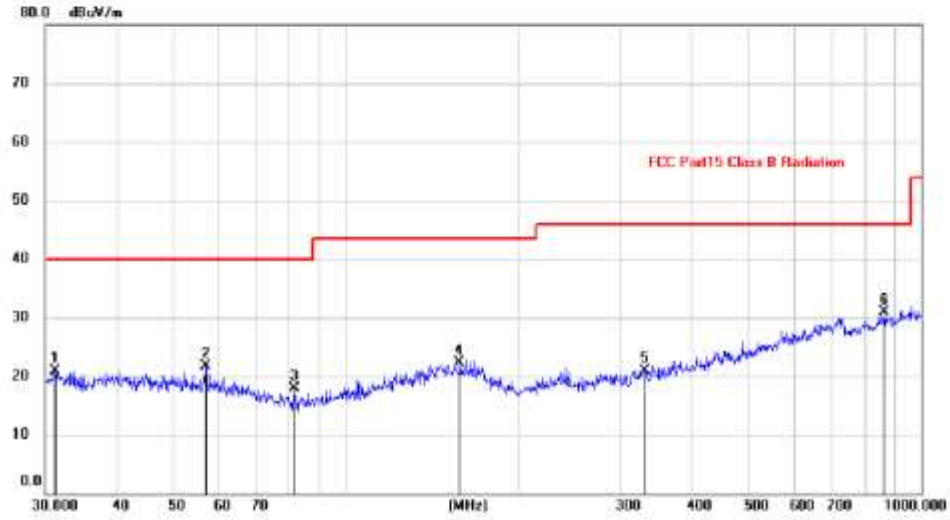
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5825
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#107 Date: 2017/4/13 Time: 14:17:01




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 31.2892 | 7.62 | 13.36 | 20.98 | 40.00 | -19.02 | peak | | | |
| 2 | | 56.9912 | 8.65 | 13.05 | 21.70 | 40.00 | -18.30 | peak | | | |
| 3 | | 81.4970 | 8.41 | 9.50 | 17.91 | 40.00 | -22.09 | peak | | | |
| 4 | | 157.5588 | 7.76 | 14.57 | 22.33 | 43.50 | -21.17 | peak | | | |
| 5 | | 330.1949 | 6.66 | 14.28 | 20.94 | 46.00 | -25.06 | peak | | | |
| 6 | * | 863.0562 | 8.38 | 22.53 | 30.91 | 46.00 | -15.09 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

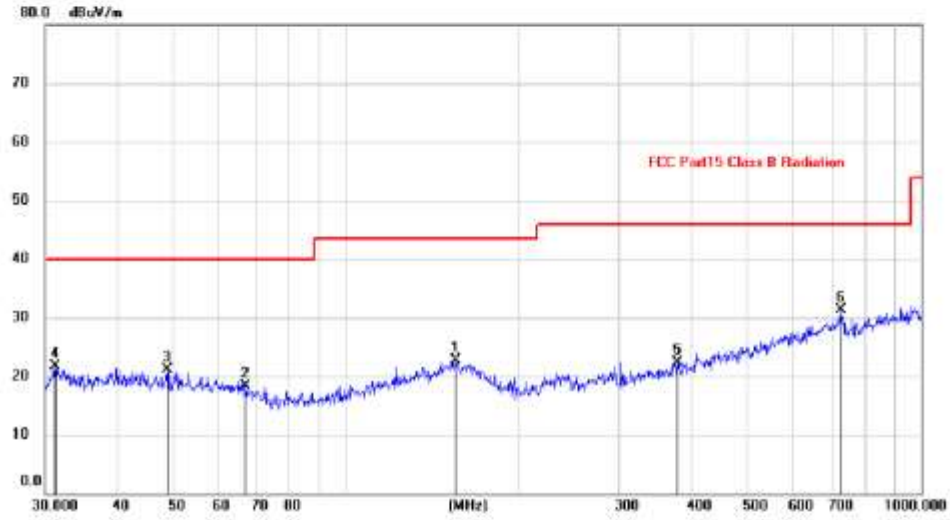
Site LAB
Limit: FCC Part15 Class B Radiation
EUT:
M/N:
Mode:a 5825
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#108 Date: 2017/4/13 Time: 14:17:29




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 154.8204 | 8.18 | 14.56 | 22.74 | 43.50 | -20.76 | peak | | | |
| 2 | | 66.9669 | 6.89 | 11.50 | 18.39 | 40.00 | -21.61 | peak | | | |
| 3 | | 49.0144 | 7.43 | 13.64 | 21.07 | 40.00 | -18.93 | peak | | | |
| 4 | | 31.2892 | 8.33 | 13.36 | 21.69 | 40.00 | -18.31 | peak | | | |
| 5 | | 378.5842 | 7.00 | 15.36 | 22.36 | 46.00 | -23.64 | peak | | | |
| 6 | * | 724.2611 | 10.11 | 21.25 | 31.36 | 46.00 | -14.64 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

**1GHz - 18GHz**
**U-NII-1**

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5180
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#279 Date: 2017/5/8 Time: 14:21:32


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 1393.484 | 47.53 | -7.02 | 40.51 | 74.00 | -33.49 | peak | | | |
| 2 | * | 2189.740 | 46.69 | -3.42 | 43.27 | 74.00 | -30.73 | peak | | | |
| 3 | | 3447.163 | 48.55 | -6.74 | 41.81 | 74.00 | -32.19 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5180
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#280 Date: 2017/5/8 Time: 14:23:33


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 2174.086 | 46.55 | -3.54 | 43.01 | 74.00 | -30.99 | peak | | | |
| 2 | | 3134.574 | 42.89 | -2.09 | 40.80 | 74.00 | -33.20 | peak | | | |
| 3 | | 3440.986 | 48.08 | -6.78 | 41.30 | 74.00 | -32.70 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5180
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#281 Date: 2017/5/8 Time: 14:24:02


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 7502.413 | 36.92 | 3.29 | 40.21 | 74.00 | -33.79 | peak | | | |
| 2 | | 10360.00 | 30.16 | 5.00 | 35.16 | 74.00 | -38.84 | peak | | | |
| 3 | | 15293.85 | 33.24 | 6.48 | 39.72 | 74.00 | -34.28 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

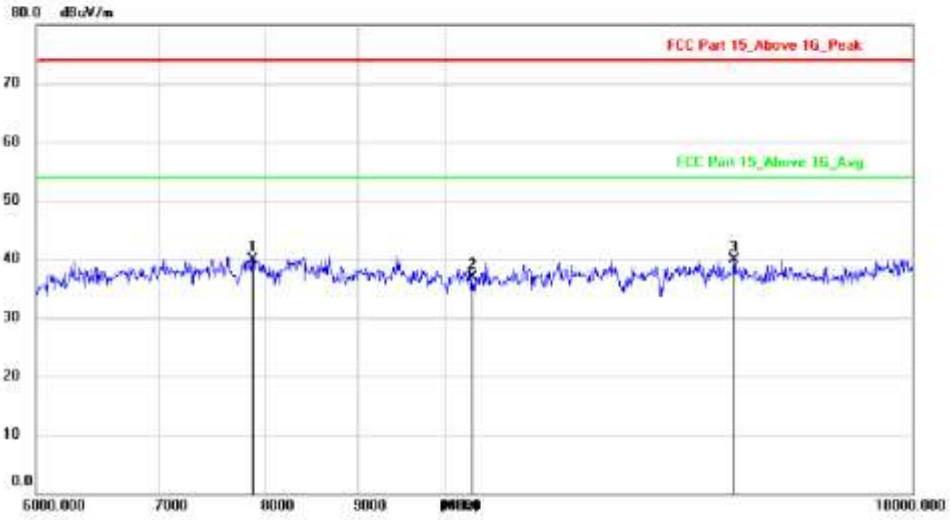
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5180
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#282 Date: 2017/5/8 Time: 14:24:13




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 7883.416 | 36.42 | 3.45 | 39.87 | 74.00 | -34.13 | peak | | | |
| 2 | | 10360.00 | 31.84 | 5.00 | 36.84 | 74.00 | -37.16 | peak | | | |
| 3 | | 14395.36 | 32.44 | 7.41 | 39.85 | 74.00 | -34.15 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

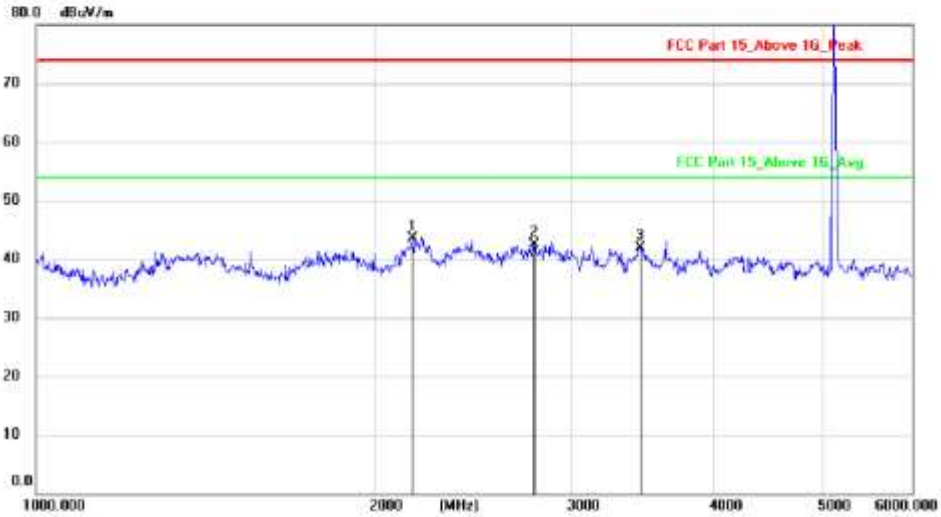
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5200
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#285 Date: 2017/5/8 Time: 14:27:33




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 2158.545 | 47.23 | -3.67 | 43.56 | 74.00 | -30.44 | peak | | | |
| 2 | | 2774.669 | 45.34 | -2.85 | 42.49 | 74.00 | -31.51 | peak | | | |
| 3 | | 3440.986 | 48.70 | -6.78 | 41.92 | 74.00 | -32.08 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

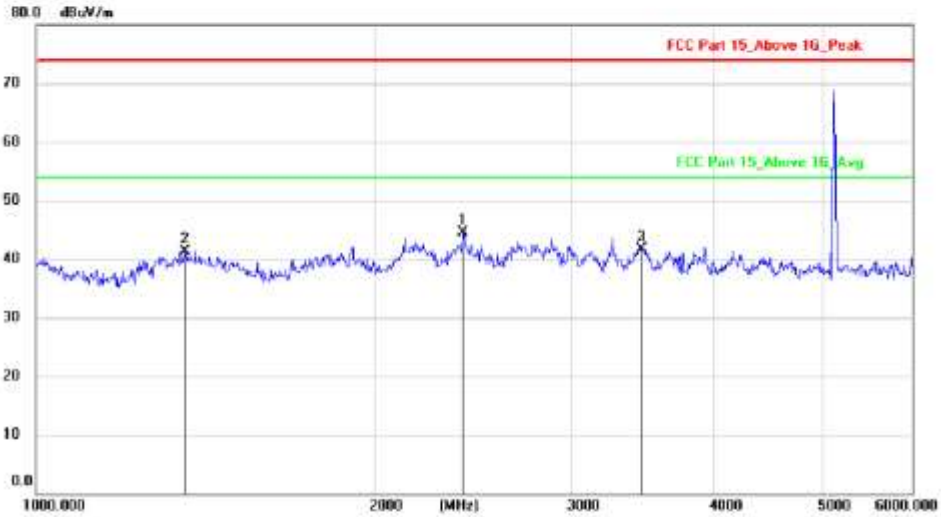
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5200
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#286 Date: 2017/5/8 Time: 14:28:48




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 2399.484 | 47.88 | -3.41 | 44.47 | 74.00 | -29.53 | peak | | | |
| 2 | | 1356.495 | 48.39 | -7.14 | 41.25 | 74.00 | -32.75 | peak | | | |
| 3 | | 3459.550 | 48.43 | -6.66 | 41.77 | 74.00 | -32.23 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

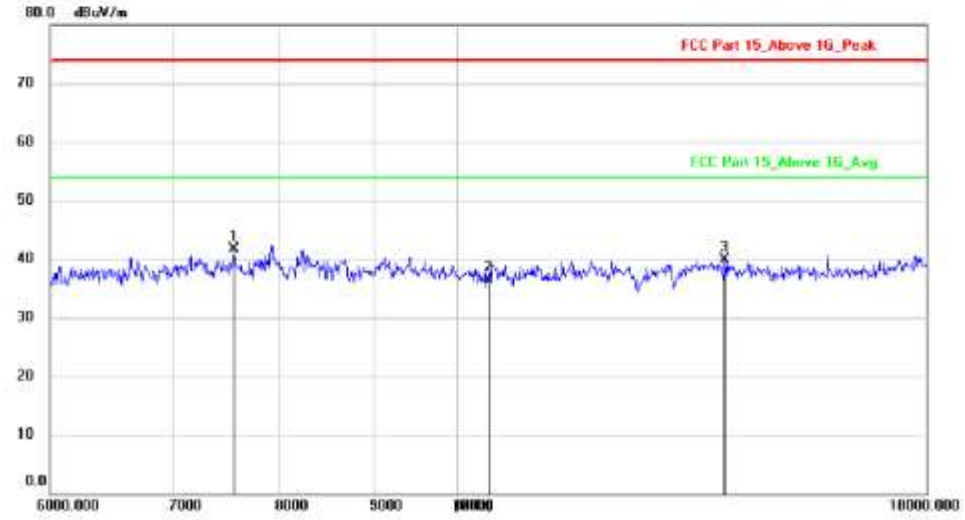
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5200
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#283 Date: 2017/5/8 Time: 14:25:30




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 7560.448 | 38.50 | 3.20 | 41.70 | 74.00 | -32.30 | peak | | | |
| 2 | | 10400.00 | 31.50 | 5.06 | 36.56 | 74.00 | -37.44 | peak | | | |
| 3 | | 13989.19 | 32.93 | 6.99 | 39.92 | 74.00 | -34.08 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

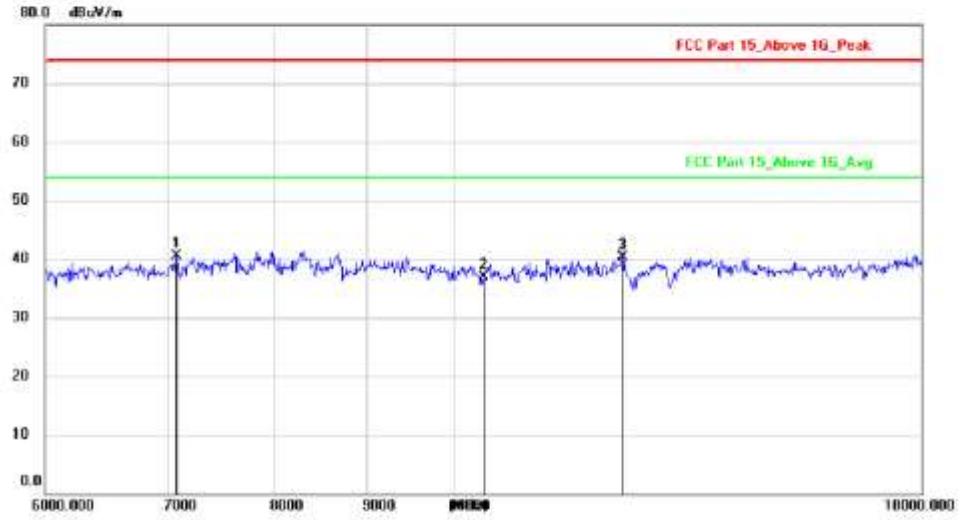
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5200
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#284 Date: 2017/5/8 Time: 14:25:54




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 7077.223 | 37.62 | 2.87 | 40.49 | 74.00 | -33.51 | peak | | | |
| 2 | | 10400.00 | 31.86 | 5.06 | 36.92 | 74.00 | -37.08 | peak | | | |
| 3 | | 12380.15 | 34.79 | 5.45 | 40.24 | 74.00 | -33.76 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5240
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 2166.302 | 46.95 | -3.60 | 43.35 | 74.00 | -30.65 | peak | | | |
| 2 | | 3128.957 | 44.68 | -2.08 | 42.60 | 74.00 | -31.40 | peak | | | |
| 3 | | 3852.614 | 46.30 | -5.54 | 40.76 | 74.00 | -33.24 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

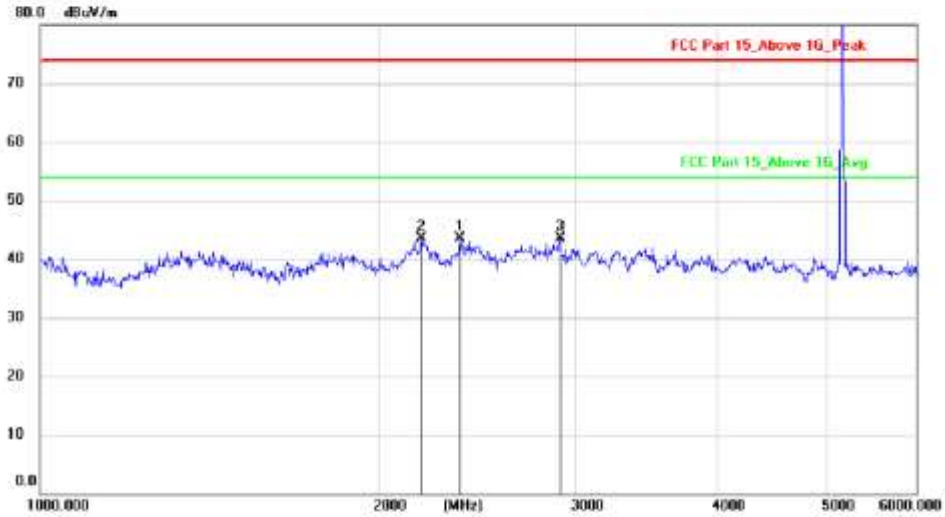
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5240
Note:

Polarization: *Horizontal*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#288 Date: 2017/5/8 Time: 14:31:53




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 2365.301 | 46.81 | -3.38 | 43.43 | 74.00 | -30.57 | peak | | | |
| 2 | * | 2185.816 | 46.89 | -3.45 | 43.44 | 74.00 | -30.56 | peak | | | |
| 3 | | 2896.714 | 46.05 | -2.61 | 43.44 | 74.00 | -30.56 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

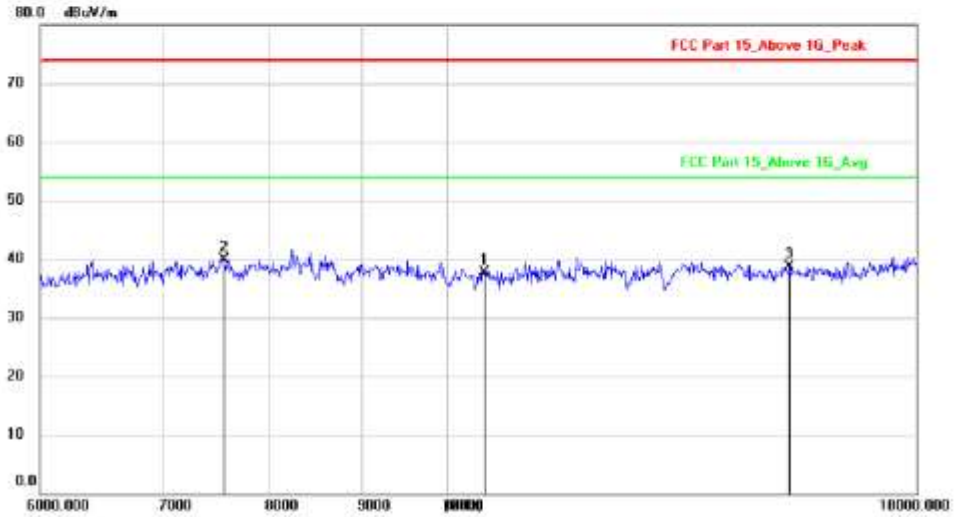
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5240
Note:

Polarization: *Horizontal*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#289 Date: 2017/5/8 Time: 14:32:20




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 10480.00 | 32.61 | 5.16 | 37.77 | 74.00 | -36.23 | peak | | | |
| 2 | * | 7560.448 | 36.64 | 3.20 | 39.84 | 74.00 | -34.16 | peak | | | |
| 3 | | 15378.26 | 32.74 | 6.04 | 38.78 | 74.00 | -35.22 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

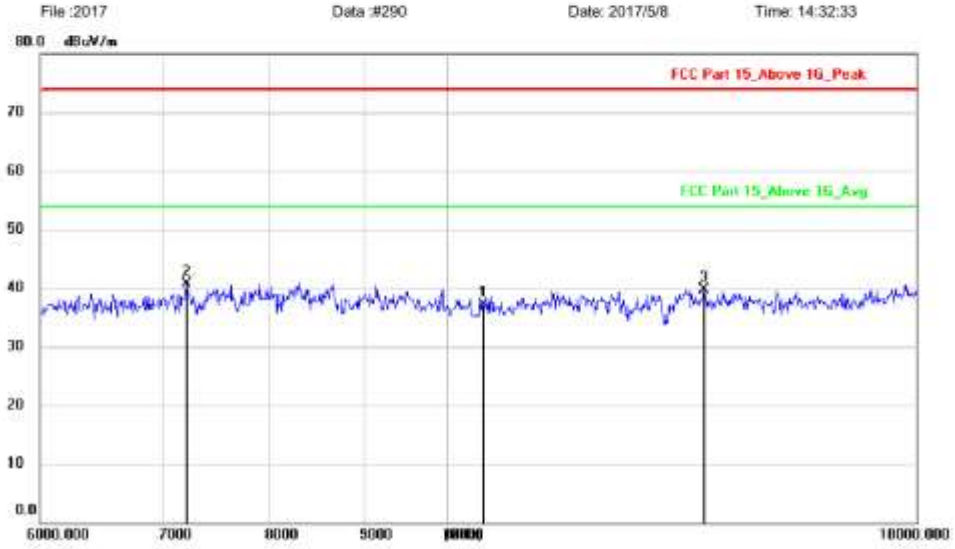
Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5240
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 10480.00 | 31.97 | 5.16 | 37.13 | 74.00 | -36.87 | peak | | | |
| 2 | * | 7210.912 | 37.20 | 3.46 | 40.66 | 74.00 | -33.34 | peak | | | |
| 3 | | 13805.61 | 33.00 | 6.66 | 39.66 | 74.00 | -34.34 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

**U-NII-3**

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5745
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#311 Date: 2017/5/8 Time: 14:56:06


| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 1390.987 | 49.04 | -7.03 | 42.01 | 74.00 | -31.99 | peak | | | |
| 2 | * | 2166.302 | 46.62 | -3.60 | 43.02 | 74.00 | -30.98 | peak | | | |
| 3 | | 3440.986 | 49.03 | -6.78 | 42.25 | 74.00 | -31.75 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

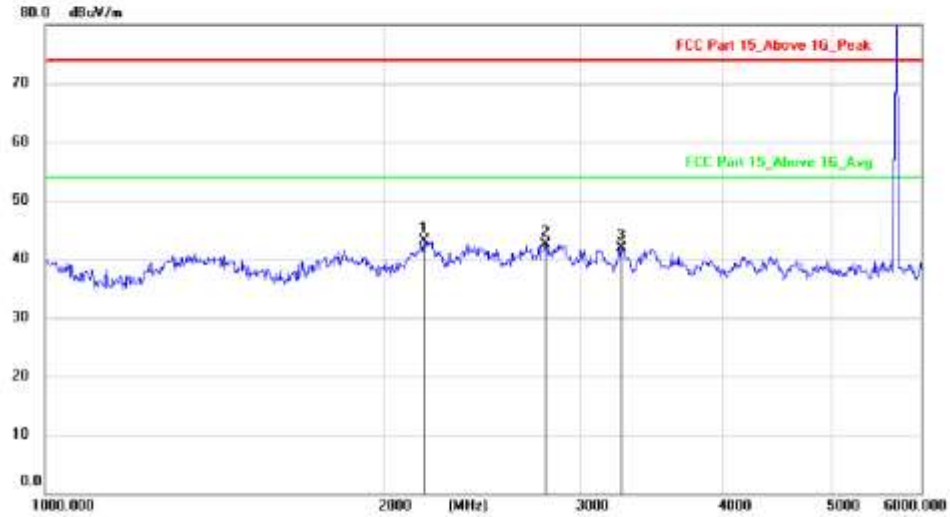
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5745
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#312 Date: 2017/5/8 Time: 14:57:16




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 2170.190 | 46.66 | -3.58 | 43.08 | 74.00 | -30.92 | peak | | | |
| 2 | | 2789.639 | 45.30 | -2.83 | 42.47 | 74.00 | -31.53 | peak | | | |
| 3 | | 3254.888 | 44.19 | -2.31 | 41.88 | 74.00 | -32.12 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

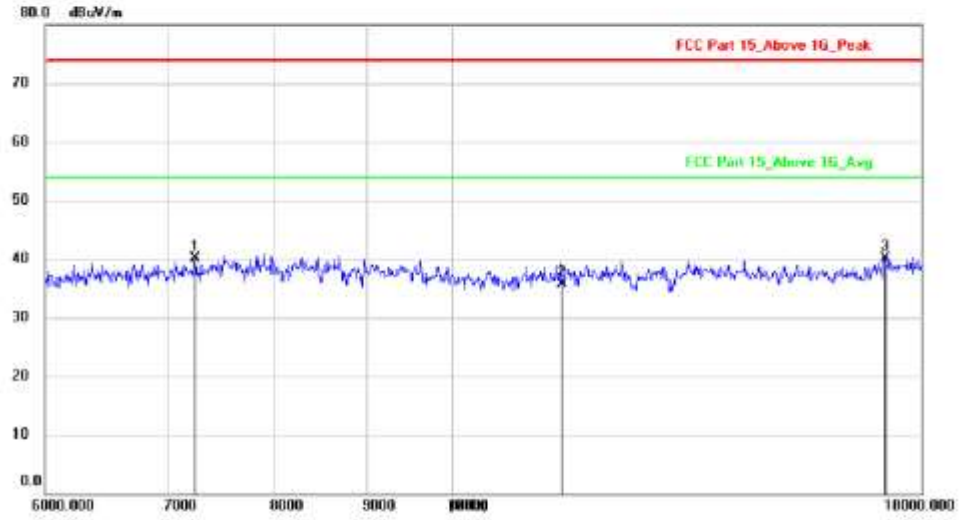
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5745
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#313 Date: 2017/5/8 Time: 14:57:40




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 7250.710 | 36.58 | 3.46 | 40.04 | 74.00 | -33.96 | peak | | | |
| 2 | | 11490.00 | 30.00 | 5.72 | 35.72 | 74.00 | -38.28 | peak | | | |
| 3 | * | 17205.66 | 32.12 | 7.95 | 40.07 | 74.00 | -33.93 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

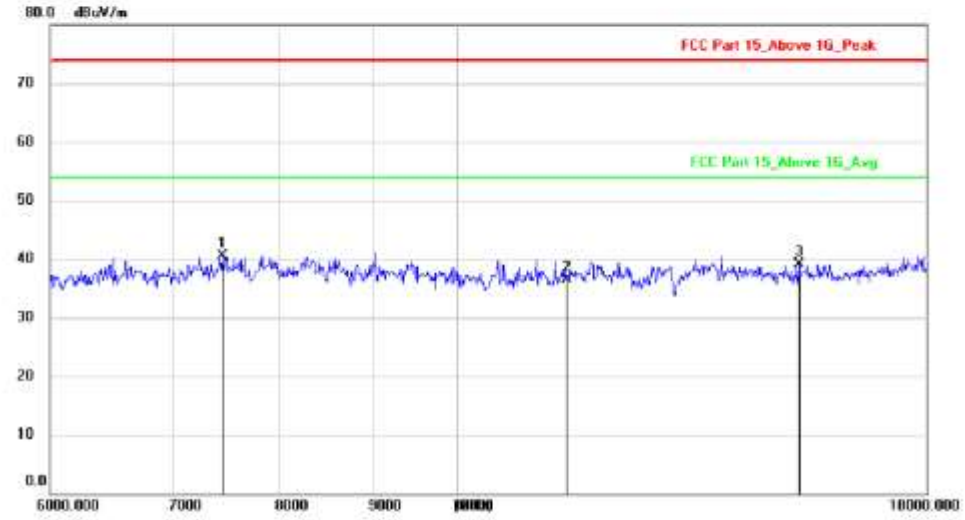
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5745
Note:

Polarization: *Vertical*
Power: DC 5V
Distance:

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#314 Date: 2017/5/8 Time: 14:57:52




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 7453.024 | 37.05 | 3.36 | 40.41 | 74.00 | -33.59 | peak | | | |
| 2 | | 11490.00 | 30.71 | 5.72 | 36.43 | 74.00 | -37.57 | peak | | | |
| 3 | | 15361.34 | 33.07 | 6.13 | 39.20 | 74.00 | -34.80 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

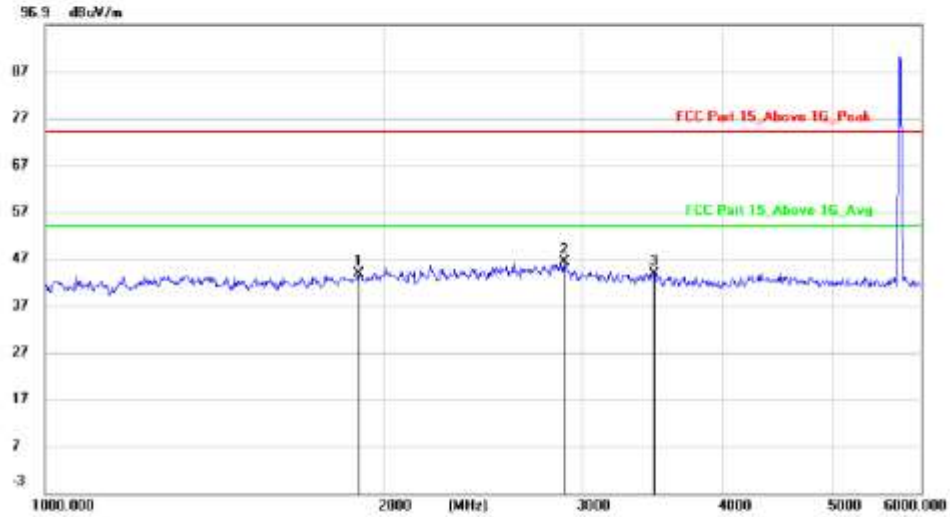
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5785
Note:

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#315 Date: 2017/5/8 Time: 20:11:22




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 1897.047 | 49.92 | -6.03 | 43.89 | 74.00 | -30.11 | peak | | | |
| 2 | * | 2891.523 | 48.97 | -2.63 | 46.34 | 74.00 | -27.66 | peak | | | |
| 3 | | 3478.215 | 50.44 | -6.54 | 43.90 | 74.00 | -30.10 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

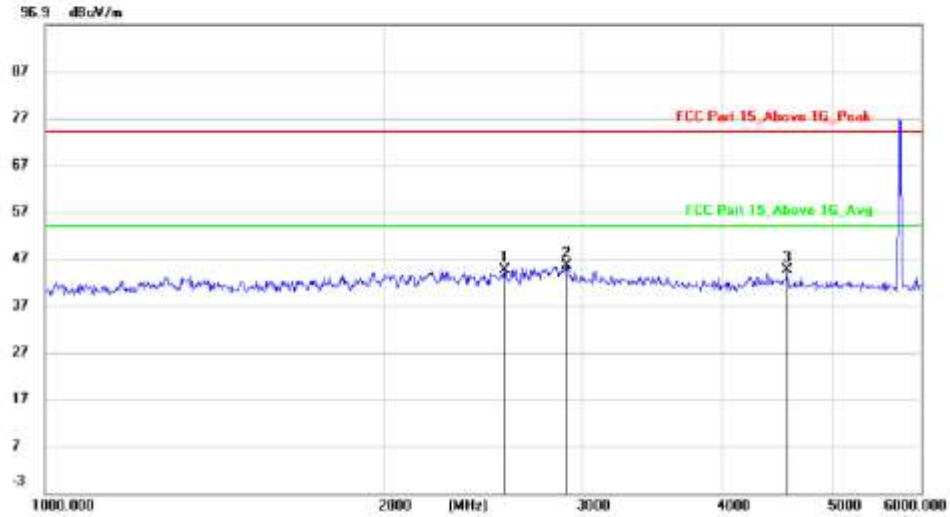
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5785
Note:

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#316 Date: 2017/5/8 Time: 20:13:28




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 2564.120 | 47.74 | -3.22 | 44.52 | 74.00 | -29.48 | peak | | | |
| 2 | * | 2912.342 | 48.11 | -2.57 | 45.54 | 74.00 | -28.46 | peak | | | |
| 3 | | 4560.106 | 48.10 | -3.68 | 44.42 | 74.00 | -29.58 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

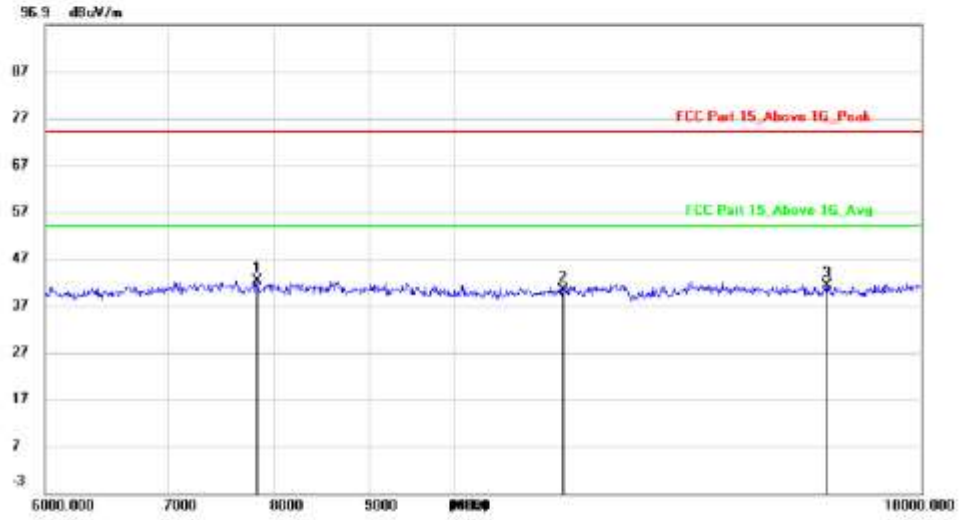
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5785
Note:

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#317 Date: 2017/5/8 Time: 20:15:24




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 7831.519 | 38.95 | 3.36 | 42.31 | 74.00 | -31.69 | peak | | | |
| 2 | | 11490.00 | 34.66 | 5.72 | 40.38 | 74.00 | -33.62 | peak | | | |
| 3 | | 15999.93 | 38.39 | 2.78 | 41.17 | 74.00 | -32.83 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

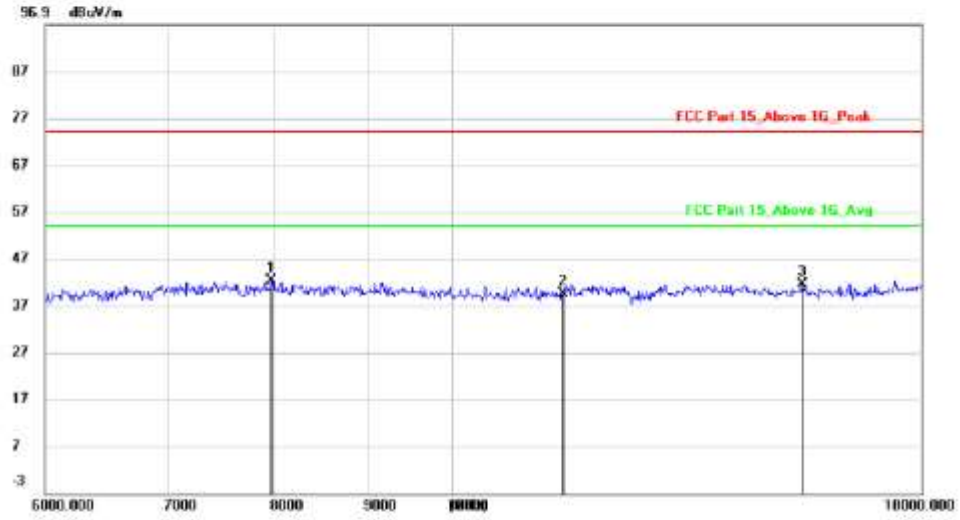
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5785
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#318 Date: 2017/5/8 Time: 20:16:26




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 7979.456 | 38.67 | 3.62 | 42.29 | 74.00 | -31.71 | peak | | | |
| 2 | | 11490.00 | 33.69 | 5.72 | 39.41 | 74.00 | -34.59 | peak | | | |
| 3 | | 15514.29 | 36.12 | 5.32 | 41.44 | 74.00 | -32.56 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

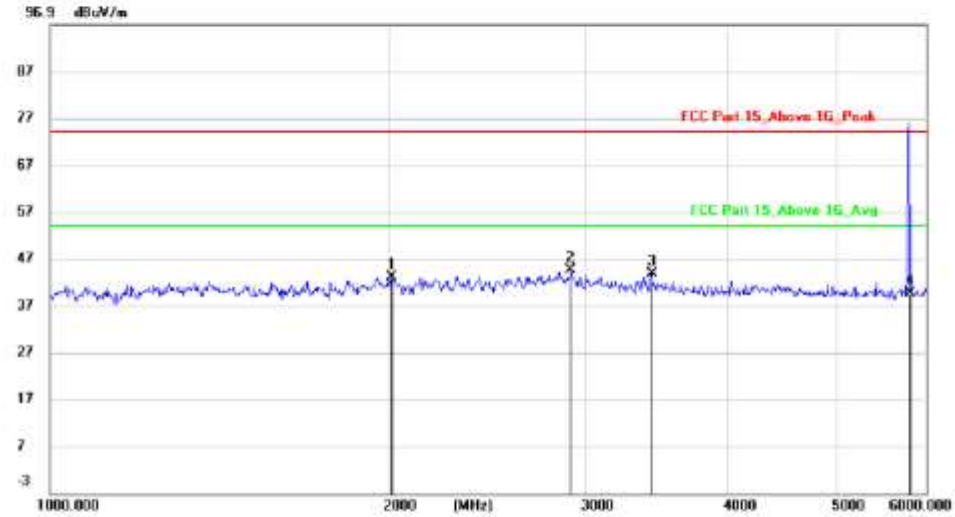
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5825
Note:

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#321 Date: 2017/5/8 Time: 20:21:26




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 2012.717 | 48.38 | -5.27 | 43.11 | 74.00 | -30.89 | peak | | | |
| 2 | * | 2901.914 | 47.18 | -2.61 | 44.57 | 74.00 | -29.43 | peak | | | |
| 3 | | 3422.521 | 50.57 | -6.89 | 43.68 | 74.00 | -30.32 | peak | | | |
| 4 | | 5825.000 | 40.79 | -1.18 | 39.61 | 74.00 | -34.39 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

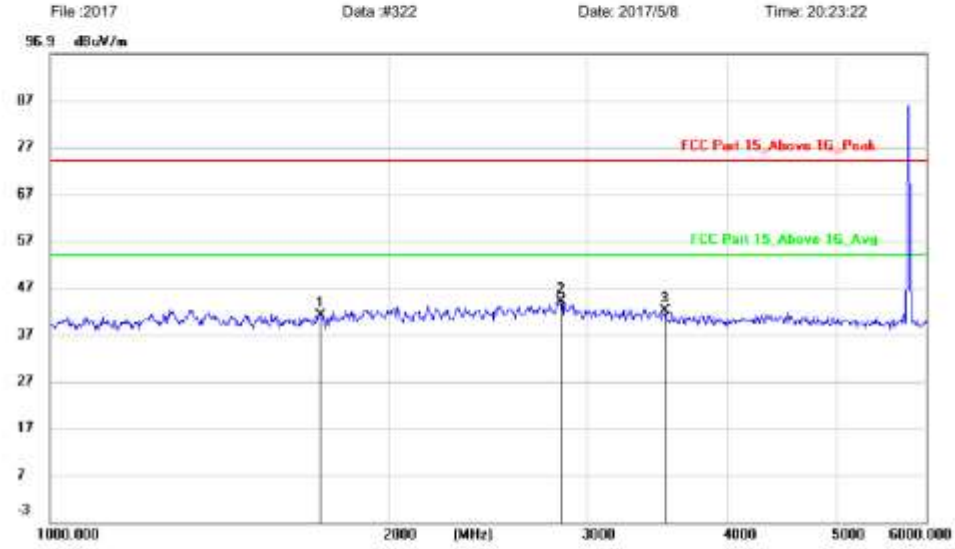
Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5825
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 1737.443 | 47.71 | -6.71 | 41.00 | 74.00 | -33.00 | peak | | | |
| 2 | * | 2845.223 | 46.71 | -2.73 | 43.98 | 74.00 | -30.02 | peak | | | |
| 3 | | 3515.848 | 48.27 | -6.36 | 41.91 | 74.00 | -32.09 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

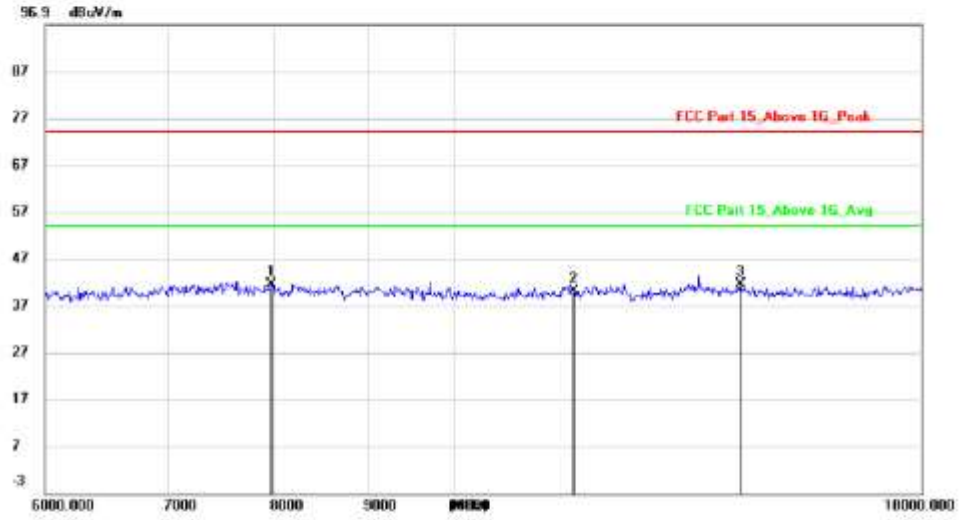
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5825
Note:

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#319 Date: 2017/5/8 Time: 20:18:41




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 7979.456 | 37.88 | 3.62 | 41.50 | 74.00 | -32.50 | peak | | | |
| 2 | | 11650.00 | 34.35 | 5.69 | 40.04 | 74.00 | -33.96 | peak | | | |
| 3 | * | 14363.71 | 34.18 | 7.38 | 41.56 | 74.00 | -32.44 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

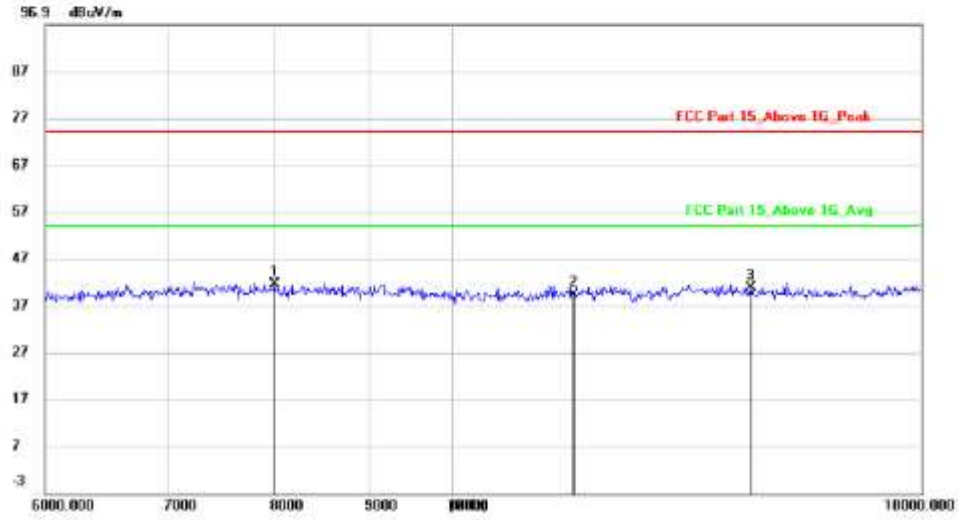
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5825
Note:

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#320 Date: 2017/5/8 Time: 20:19:27




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 7997.043 | 37.84 | 3.64 | 41.48 | 74.00 | -32.52 | peak | | | |
| 2 | | 11650.00 | 33.68 | 5.69 | 39.37 | 74.00 | -34.63 | peak | | | |
| 3 | | 14554.71 | 33.13 | 7.57 | 40.70 | 74.00 | -33.30 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

## Appendix B.2: Radiated Emissions near the Band Edge

**Wi-Fi 802.11 a mode, 6 Mbps**

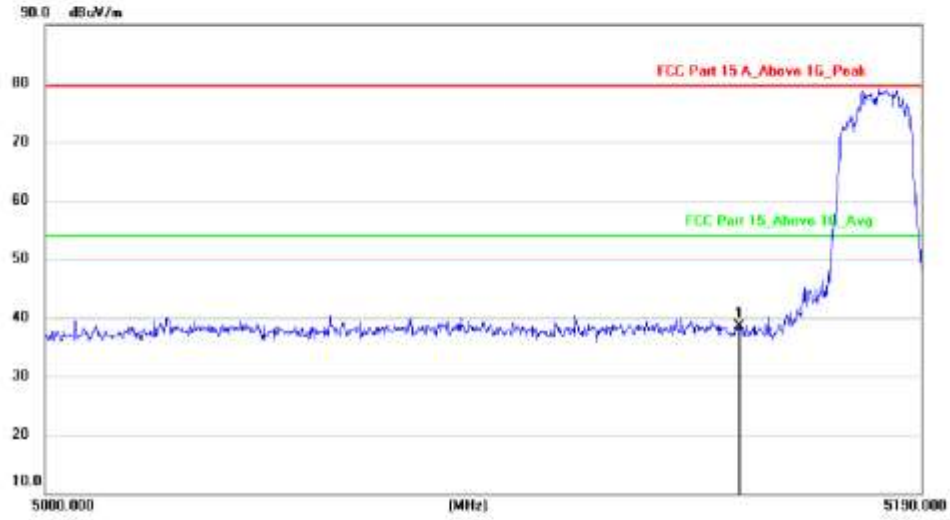
**U-NII-1**

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

| | | |
|---|---|---|
| Site LAB | Polarization: *Vertical* | Temperature: 23.5 |
| Limit: FCC Part 15 A_Above 1G_Peak | Power: DC 5V | Humidity: 51 % |
| EUT: | Distance: 3m | |
| M/N: | | |
| Mode:WIFI a 5190 | | |
| Note: | | |

**Radiated Emission Measurement**

File :2017 Data :#425 Date: 2017/5/9 Time: 15:43:00




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 5150.000 | 40.67 | -2.25 | 38.42 | 79.50 | -41.08 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

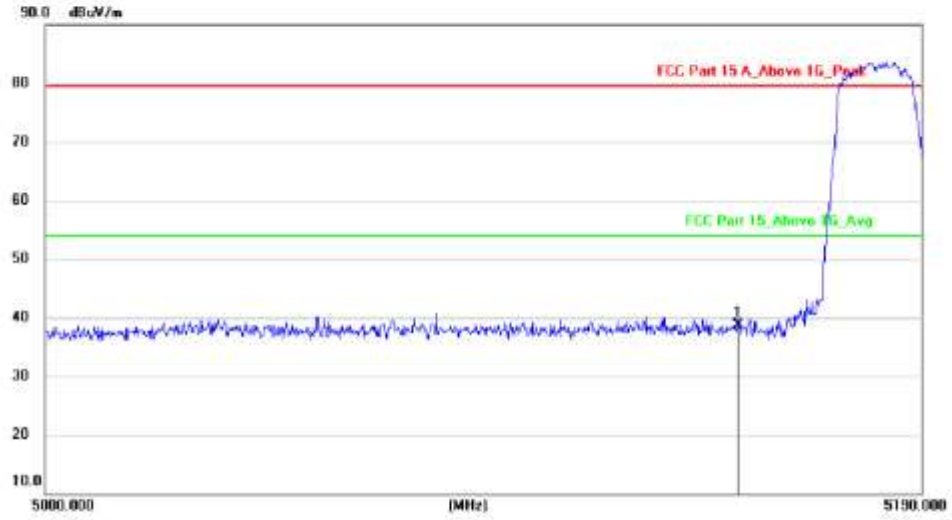
Site LAB
Limit: FCC Part 15 A_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5190
Note:

Polarization: ***Horizontal***
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#426 Date: 2017/5/9 Time: 15:44:36




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 5150.000 | 40.96 | -2.25 | 38.71 | 79.50 | -40.79 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

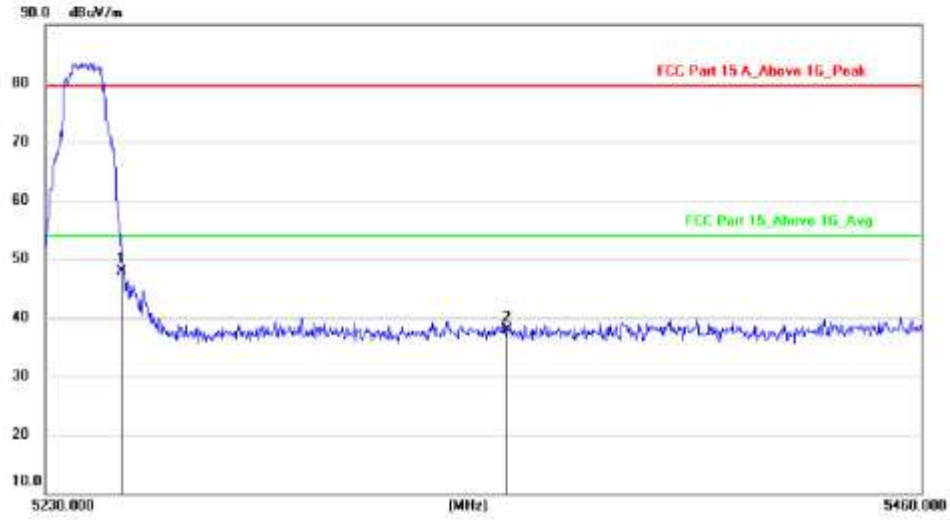
Site LAB
Limit: FCC Part 15 A_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5240
Note:

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#423 Date: 2017/5/9 Time: 15:39:17




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 5250.000 | 50.00 | -2.13 | 47.87 | 79.50 | -31.63 | peak | | | |
| 2 | | 5350.000 | 40.01 | -2.01 | 38.00 | 79.50 | -41.50 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

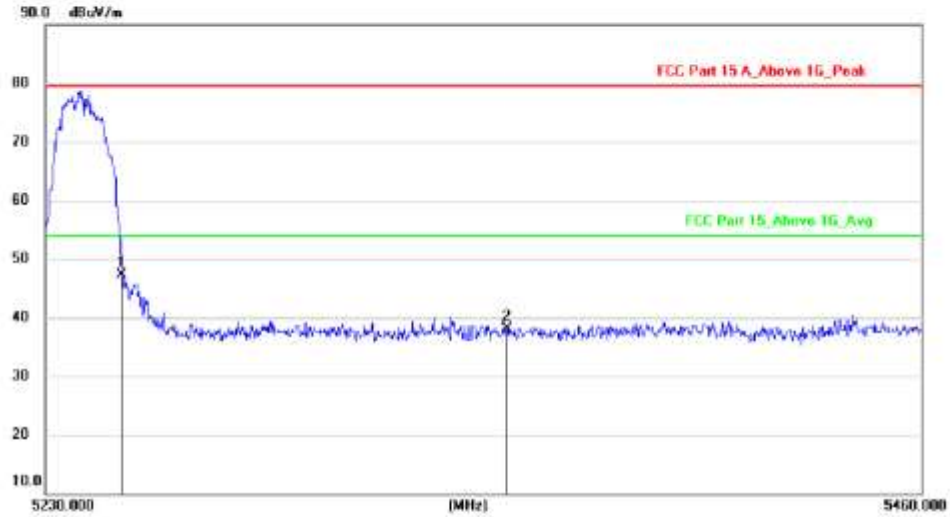
Site LAB
Limit: FCC Part 15 A_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5240
Note:

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#424 Date: 2017/5/9 Time: 15:40:23




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 5250.000 | 49.49 | -2.13 | 47.36 | 79.50 | -32.14 | peak | | | |
| 2 | | 5350.000 | 40.20 | -2.01 | 38.19 | 79.50 | -41.31 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

**U-NII-3**

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

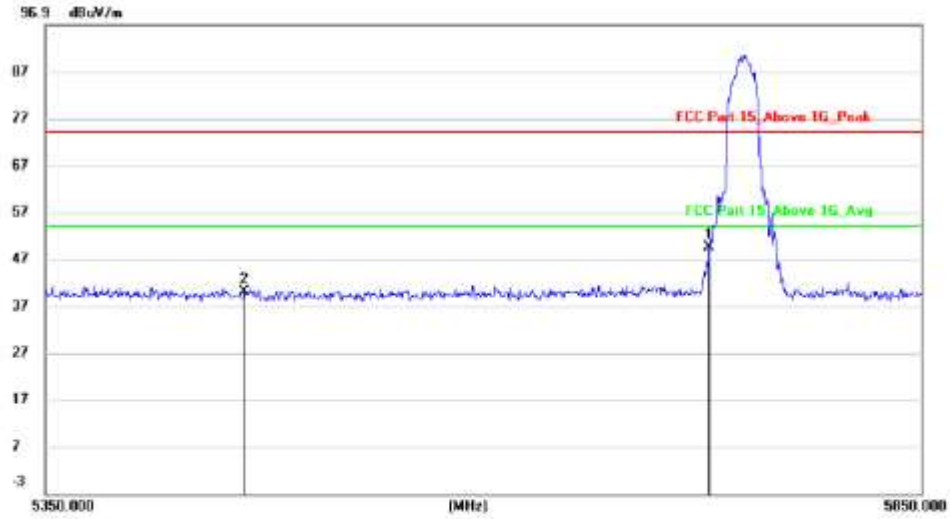
Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5745
Note:

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**

File :2017 Data :#382 Date: 2017/5/8 Time: 21:36:07




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 5725.000 | 50.87 | -1.32 | 49.55 | 74.00 | -24.45 | peak | | | |
| 2 | | 5460.000 | 41.96 | -1.81 | 40.15 | 74.00 | -33.85 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

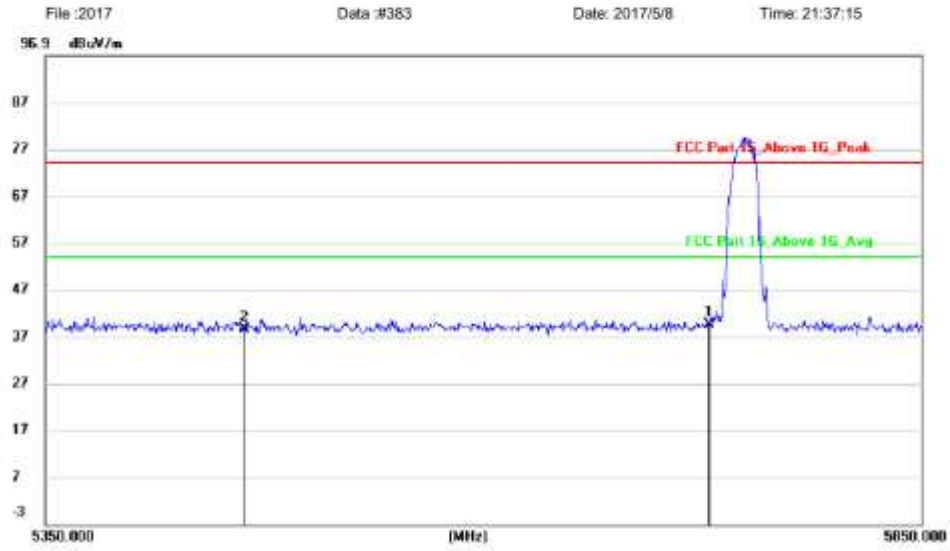
Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5745
Note:

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 5725.000 | 40.90 | -1.32 | 39.58 | 74.00 | -34.42 | peak | | | |
| 2 | | 5460.000 | 40.35 | -1.81 | 38.54 | 74.00 | -35.46 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

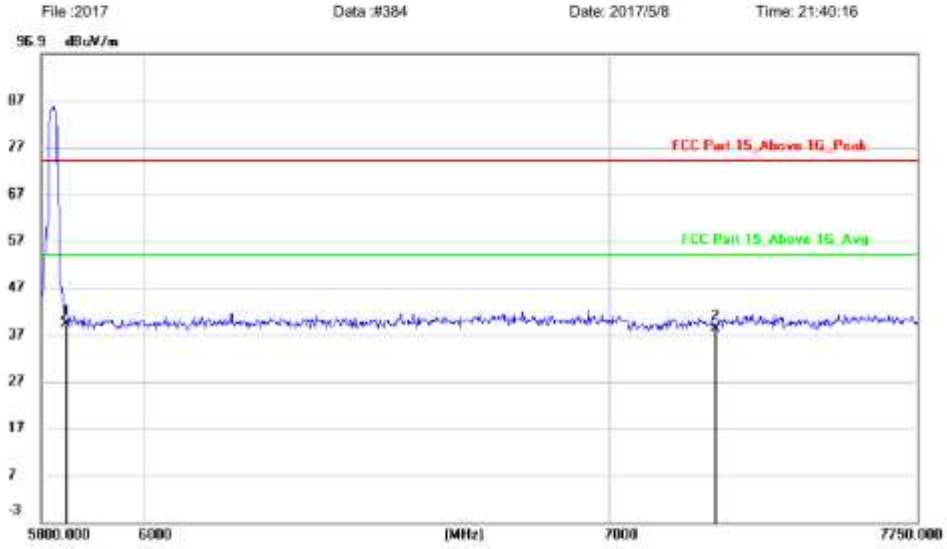
Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5825
Note:

Polarization: *Horizontal*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 5850.000 | 40.48 | -1.15 | 39.33 | 74.00 | -34.67 | peak | | | |
| 2 | | 7250.000 | 34.93 | 3.46 | 38.39 | 74.00 | -35.61 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

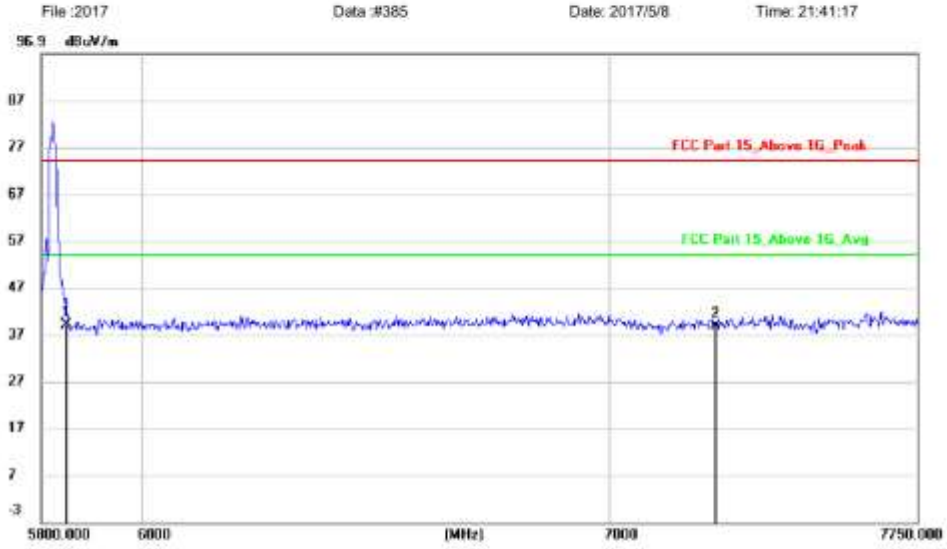
Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB
Limit: FCC Part 15_Above 1G_Peak
EUT:
M/N:
Mode:WIFI a 5825
Note:

Polarization: *Vertical*
Power: DC 5V
Distance: 3m

Temperature: 23.5
Humidity: 51 %

**Radiated Emission Measurement**




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 5850.000 | 40.21 | -1.15 | 39.06 | 74.00 | -34.94 | peak | | | |
| 2 | | 7250.000 | 35.37 | 3.46 | 38.83 | 74.00 | -35.17 | peak | | | |

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

*F:\法拉测试软件数据\2017\REPORT DATA-201* *Page: 1* Engineer Signature:

## Appendix B.3: Conducted Emission

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

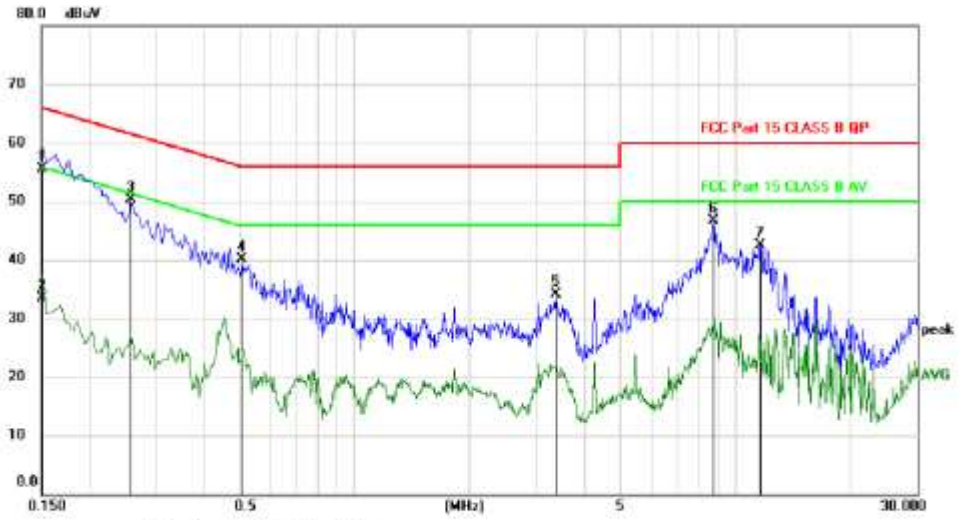
Site LAB
Limit: FCC Part 15 CLASS B QP
EUT: MID
M/N:
Mode: 802.11 a 5180MHz
Note:

Phase: L1
Power: AC 120V/60Hz

Temperature: 23.6
Humidity: 54 %

**Conducted Emission Measurement**

File :2017 Data :#1 Date: 2017-4-7 Time: 17:35:16




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1500 | 45.71 | 9.73 | 55.44 | 66.00 | -10.56 | QP | |
| 2 | | 0.1500 | 23.73 | 9.73 | 33.46 | 56.00 | -22.54 | AVG | |
| 3 | | 0.2580 | 40.62 | 9.76 | 50.38 | 61.50 | -11.12 | peak | |
| 4 | | 0.5055 | 30.36 | 9.78 | 40.14 | 56.00 | -15.86 | peak | |
| 5 | | 3.3675 | 24.12 | 10.07 | 34.19 | 56.00 | -21.81 | peak | |
| 6 | | 8.7450 | 36.39 | 10.31 | 46.70 | 60.00 | -13.30 | peak | |
| 7 | | 11.5890 | 32.14 | 10.35 | 42.49 | 60.00 | -17.51 | peak | |

*:Maximum data x:Over limit !:over margin (Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

E:\EZ-EMC\Test Report\H\Hengchen\2017.d Page: 1 Engineer Signature:

Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

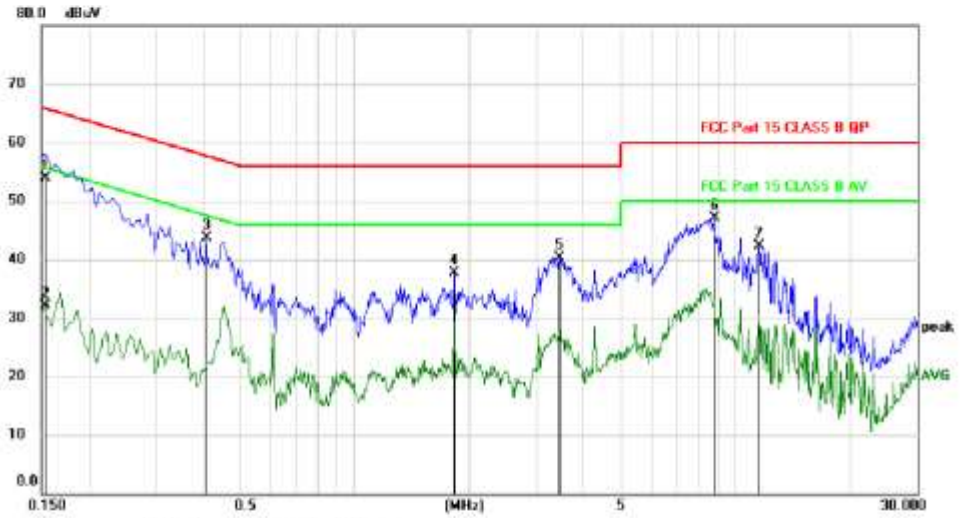
Site LAB
Limit: FCC Part 15 CLASS B QP
EUT: MID
M/N:
Mode: 802.11 a 5180MHz
Note:

Phase: N
Power: AC 120V/60Hz

Temperature: 23.6
Humidity: 54 %

**Conducted Emission Measurement**

File :2017 Data :#2 Date: 2017-4-7 Time: 17:37:50




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Margin | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1545 | 44.17 | 9.73 | 53.90 | 65.75 | -11.85 | QP | |
| 2 | | 0.1545 | 22.30 | 9.73 | 32.03 | 55.75 | -23.72 | AVG | |
| 3 | | 0.4065 | 34.00 | 9.77 | 43.77 | 57.72 | -13.95 | peak | |
| 4 | | 1.8240 | 27.81 | 9.91 | 37.72 | 56.00 | -18.28 | peak | |
| 5 | | 3.4395 | 30.32 | 10.08 | 40.40 | 56.00 | -15.60 | peak | |
| 6 | | 8.8035 | 36.76 | 10.31 | 47.07 | 60.00 | -12.93 | peak | |
| 7 | | 11.5440 | 31.99 | 10.35 | 42.34 | 60.00 | -17.66 | peak | |

*:Maximum data x:Over limit !:over margin (Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

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