TEST REPORT

REPORT NUMBER: B19W50225-WLAN Rev4

ON

Type of Equipment: LTE Tracker

Model Name:

Micron Electronics LLC. Manufacturer

AT Plus 4E

ACCORDING TO

FCC Part 15, Subpart C, 2015: 15.205 Restricted bands of operation, 15.209 Radiated emission limits; general requirements,
15.247 Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz ANSI C63.10-2013:American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Chongqing Academy of Information and Communications Technology

Month date, year Sep, 30, 2019

Signature

Zhang Yan

Director

Chongqing Academy of Information and Communications Technology

Report No.:B19W50225-WLAN_Rev4

FCC ID: ZKQ-ATP4E 2019-09-30 Report Date:

Chongqing Academy of Information and Test Firm Name:

Communications Technology

FCC Registration Number: CN1239

Statement

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C. The sample tested was found to comply with the requirements defined in the applied rules.

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The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.

| | Revision Version | | | | |
|----------------|------------------|------------|------|--|--|
| Report Number | Revision | Date | Memo | | |
| B19W50225-WLAN | V0.0 | 2019-08-07 | - | | |
| B19W50225-WLAN | V1.0 | 2019-09-17 | - | | |
| B19W50225-WLAN | V2.0 | 2019-09-27 | - | | |
| B19W50225-WLAN | V3.0 | 2019-09-30 | - | | |
| B19W50225-WLAN | V4.0 | 2019-09-30 | | | |

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1 General Information

1.1 Notes

All reported tests were carried out on a sample equipment to demonstrate limited compliance with FCC Parts 15, subpart C and ANSI C63.10-2013 and FCC DA 00.705

The test results of this test report relate exclusively to the item(s) tested as specified in section 2.

The following deviation from, additions to, or exclusions from the test specifications have been made. See Annex B.

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1.2 Testers

Name: Li Xu
Position: Engineer

Department: Department of RF test
Date: 2019-07-02 to 2019-09-27

Signature:

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Editor of this test report:

Name: Chen Wen
Position: Engineer

Department: Department of RF test

Date: 2019-09-30

Signature:

Technical responsibility for area of testing:

Name: Zhang Yan

Position: Manager

Department: Director of the laboratory

Date: 2019-09-30

Signature:

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1.3.1 Location

Name: Chongqing Academy of Information and Communications

Technology

Address: Building B, Technology Innovation Center, No.8, Yuma

Road, Chayuan New Area, Nan'an District, Chongqing,

People's Republic of China, 401336

Tel: +86-23-88069965
Fax: +86-23-88608777
Email: liqiao@caict.ac.cn

1.3 Testing Laboratory information

 $1.3.2\ \mathrm{Test}$ location, where different from section 1.3.1

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1.4 Details of applicant or manufacturer

1.4.1 Applicant

Name: Micron Electronics LLC.

Address: 1001 Yamato Road, Suite 400, Boca Raton, FL 33431, USA

Country: USA

Telephone: +18885383489
Fax: +18885501805
Contact: Ping Cheng

Email: pcheng@micron-electronics.com

1.4.2 Manufacturer (if different from applicant in section 1.4.1)

Address: -Country: -Telephone: -Fax: -Contact: --

Email:

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2 Test Item

Low Voltages

Receipt date of test item:

2.1 General Information

Manufacturer: Micron Electronics LLC.

Type of Equipment: LTE Tracker

Model Name: AT Plus 4E

Production Status: Product

Hardware Version: A502_V1_PCB

Software Version: P51MAV01.01B01.103

Normal Voltages 3.80 V

High Voltages 4.20 V

3.40 V

2019-06-11

2.2 Outline of Equipment under Test

The AT Plus 4E, referred to as "EUT" hereafter, is a a multi-Band wireless modem operating on the GSM/CAT-M1/NB-IoT/Wi-Fi networks. The table below shows the supported bands for the EUT.

| Technology | Freq.(MHz) | Note |
|------------|-------------|------|
| 2.4G WLAN | 2400-2483.5 | |

2.3 Modifications Incorporated in EUT

The EUT has not been modified from what is described by the brand name and unique type identification stated above.

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3 Summary of Test Results

A brief summary of the tests carried out is shown as following.

| FCC Rules | Name of Test | Result |
|-------------------------------|--------------------------------------------|--------|
| 15.247(b) | Maximum Peak Output Power | Pass |
| 15.247(e) | Peak Power Spectral Density | Pass |
| 15.247(a) | 6dB Occupied Bandwidth | Pass |
| 15.247(d) | Band Edges Compliance | Pass |
| 15.247 (d) | Transmitter Spurious Emission-Conducted | Pass |
| 15.247, 15.205, 15.209 | Transmitter Spurious Emission-Radiated | Pass |
| ANSI C63.4 voltage mains test | Power line Conducted Emissions | Pass |
| Note: | | |

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2.4 Equipment Configuration

Equipment configuration list:

| Item | Generic Description | Manufacturer | Type | Serial No. | Remarks |
|------|---------------------------------------|--------------------------------------------------|----------------------|---------------------|----------------------------------------------------------------------------------|
| A | Modules | Micron Electronics LLC. | AT Plus 4E | 3530810903084 07 | None |
| В | Modules | Micron Electronics LLC. | AT Plus 4E | 3530810903082 82 | None |
| С | Adapter | Shenzhen Linksooner Technology Co.,Ltd. | YXT917-05 01000EU | | Input Voltage: 100-240V~50/60Hz, 0.20A Max Output Voltage: 4-5V ===0.1-1A |
| D | Data line | | | | |
| Е | Rechargeable Li-polymer Battery | | | | Nominal capacity: 2600mAh Nominal Voltage: +3.7V Maximum Charging Voltage: +4.2V |

2.5 Other Information

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4 Test Equipments and Ancillaries Used For Tests

The test equipments and ancillaries used are as follows.

| No. | Equipment | Model | SN | Manufacture | Cal. Due Date |
|-----|-----------------------------------------|---------------------|-------------|-------------|---------------|
| 1 | EMI Test Receiver | ESU26 | 100367 | R&S | 2020-03-01 |
| 2 | Trilog super broad band test antenna | VULB 9163 | 9163-544 | R&S | 2019-11-24 |
| 3 | Double-Ridged Horn Antenna | HF907 | 100357 | R&S | 2021-06-22 |
| 4 | Fully-Anechoic Chamber | 11.8m×6.5 m×6.3m | | ETS | 2019-10-23 |
| 5 | Universal Radio Communication Tester | SP8315 | SP8315-1249 | StarPoint | 2020-03-01 |
| 6 | Signal Generator | SMU200A | 104517 | R&S | 2020-03-01 |
| 7 | Spectrum analyzer | FSQ 26 | 201137/026 | R&S | 2020-03-01 |
| 8 | spectrum analyzer | N9020A | MY50200376 | Agilent | 2020-03-01 |
| 9 | DC Power Supply | N6705B | MY50000919 | Agilent | 2019-12-05 |
| 10 | Climate chamber | SH-241 | 92010759 | ESPEC | 2020-03-01 |

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5 Test Results

5.1 Maximum Peak Output Power

| Specifications: | FCC Part 15.247(b) |
|--------------------|---------------------------------------------------------------------------------|
| DUT Serial Number: | 353081090308407 |
| Test conditions: | Ambient Temperature:15 ℃-35 ℃ Relative Humidity:30%-60% Air pressure: 86-106kPa |
| Test Results: | Pass |

Limit Level Construction:

The maximum peak output power of the intentional radiator shall not exceed the following: 1. For systems using digital modulation in the bands of 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz: 1 watt.

 $2.\ Except\ as\ shown\ in\ paragraphs\ (b)(3)\ (i),\ (ii)\ and\ (iii)\ of\ this\ section,\ if\ transmitting\ antennas\ of$ directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Measurement Uncertainty:

| , , , , , , , , , , , , , , , , , , , | |
|---------------------------------------|--------|
| Measurement Uncertainty | ±1.0dB |

Test Method:

- The measurement is according to ANSI C63.10 clause 11.2 1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.

 2. Enable EUT transmitter maximum power continuously.
- Set RBW \geq OBW, Set the appropriate VBW
- 4. Detector : Peak.
- 5. Trace mode: Max Hold

Note: --

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Measurement Results:

| Mode | Data | Teat Result(dBm) | | | Conclusion |
|---------|------------|------------------|-------|-------|------------|
| Mode | Rate(Mbps) | Ch1 | Ch6 | Ch11 | Conclusion |
| | 1 | 16.83 | 17.06 | 17.09 | Pass |
| 002 111 | 2 | 16.87 | 17.10 | 17.18 | Pass |
| 802.11b | 5.5 | 16.76 | 16.95 | 17.11 | Pass |
| | 11 | 16.76 | 16.96 | 17.09 | Pass |
| | 6 | 17.09 | 16.94 | 16.36 | Pass |
| | 9 | 16.25 | 17.01 | 16.91 | Pass |
| | 12 | 16.85 | 17.00 | 16.23 | Pass |
| 002.11 | 18 | 16.19 | 16.83 | 15.84 | Pass |
| 802.11g | 24 | 16.40 | 17.14 | 15.76 | Pass |
| | 36 | 16.07 | 17.00 | 15.72 | Pass |
| | 48 | 16.26 | 16.92 | 16.08 | Pass |
| | 54 | 16.26 | 17.08 | 15.70 | Pass |

802.11n mode

| Mode | Data | Teat Result(dBm) | | | Conclusion |
|---------|------------|------------------|-------|-------|------------|
| Mode | Rate(Mbps) | Ch1 | Ch6 | Ch11 | Conclusion |
| | MCS0 | 15.56 | 17.04 | 17.04 | Pass |
| | MCS1 | 15.87 | 16.86 | 16.72 | Pass |
| | MCS2 | 16.65 | 17.27 | 16.96 | Pass |
| 802.11n | MCS3 | 16.84 | 17.04 | 16.93 | Pass |
| (20MHz) | MCS4 | 17.48 | 17.13 | 16.95 | Pass |
| | MCS5 | 17.22 | 17.19 | 16.84 | Pass |
| | MCS6 | 17.37 | 17.18 | 16.79 | Pass |
| | MCS7 | 17.15 | 16.96 | 17.04 | Pass |
| | MCS0 | 16.71 | 16.32 | 17.14 | Pass |
| | MCS1 | 16.41 | 15.97 | 16.91 | Pass |
| | MCS2 | 16.04 | 15.97 | 16.79 | Pass |
| 802.11n | MCS3 | 16.07 | 15.81 | 17.16 | Pass |
| (40MHz) | MCS4 | 16.27 | 16.36 | 16.94 | Pass |
| | MCS5 | 16.50 | 16.08 | 16.91 | Pass |
| | MCS6 | 16.46 | 16.09 | 16.80 | Pass |
| | MCS7 | 16.40 | 16.02 | 16.97 | Pass |

Conclusion: PASS

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Test figure as below:



Fig.1 Peak Conducted Output Power CH1, 11b, Rate1

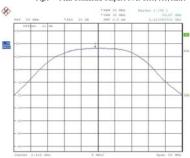


Fig.2 Peak Conducted Output Power CH1, 11b, Rate2

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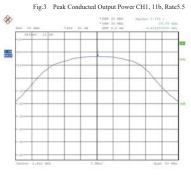
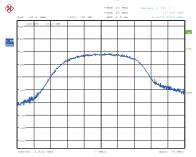


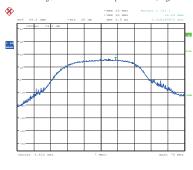
Fig.4 Peak Conducted Output Power CH1, 11b, Ratel1

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Date: 27 SED 2019 08-49-31

Fig.5 Peak Conducted Output Power CH1, 11g, Rate6



Date: 27.SEP.2019 08:53:19

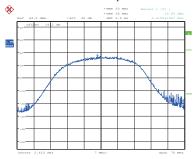
Fig.6 Peak Conducted Output Power CH1, 11g, Rate9

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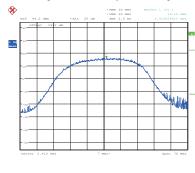
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Date: 27.SEP.2019 08:54:08

Fig.7 Peak Conducted Output Power CH1, 11g, Rate12



Date: 27.SEP.2019 08:54:24

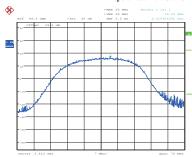
Fig.8 Peak Conducted Output Power CH1, 11g, Rate18

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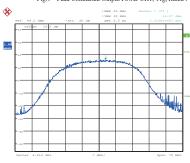
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Date: 27.SEP.2019 08:54:37

Fig.9 Peak Conducted Output Power CH1, 11g, Rate24

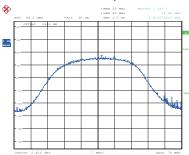


te: 27.SEP.2019 08:55:04

Fig.10 Peak Conducted Output Power CH1, 11g, Rate36

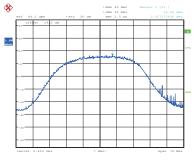
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Date: 27.SEP.2019 08:55:

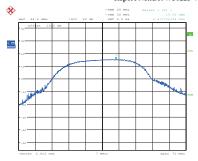
Fig.11 Peak Conducted Output Power CH1, 11g, Rate48



Date: 27.SEP.2019 08:55:36

Fig.12 Peak Conducted Output Power CH1, 11g, Rate54

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Date: 27.SEP.2019 09:06:51

Fig.13 Conducted Output Power CH1, 11n, Rate MCS0

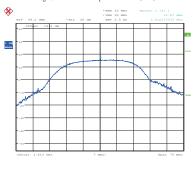


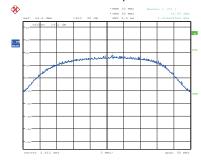
Fig.14 Conducted Output Power CH1, 11n, Rate MCS1

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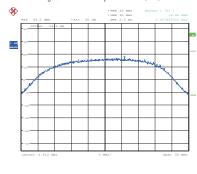
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Fig.15 Conducted Output Power CH1, 11n, Rate MCS2



7.5EF.2019 09:21:47

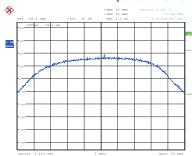
Fig.16 Conducted Output Power CH1, 11n, Rate MCS3

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Date: 27.SEP.2019 09:21:57

Fig.17 Conducted Output Power CH1, 11n, Rate MCS4

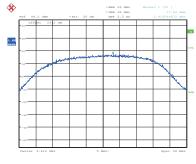
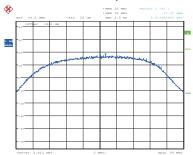


Fig.18 Conducted Output Power CH1, 11n, Rate MCS5

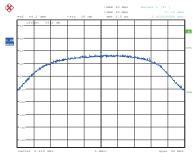
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Date: 27.SEP.2019 09:22:14

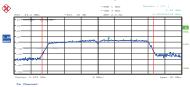
Fig.19 Conducted Output Power CH1, 11n, Rate MCS6



Date: 27.SEP.2019 09:22:30

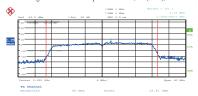
Fig.20 Conducted Output Power CH1, 11n, Rate MCS7

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Date: 27.SEP.2019 09:34:5

Fig.21 Conducted Output Power CH1, 11n(40M), Rate MCS0



Date: 27.SEP.2019 09:35:05

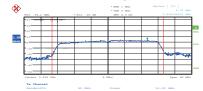
Fig.22 Conducted Output Power CH1, 11n(40M), Rate MCS1

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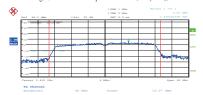
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Report No.:B19W50225-WLAN_Rev4



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Fig.23 Conducted Output Power CH1, 11n(40M), Rate MCS2



Date: 27.5EP.2019 09:36:15

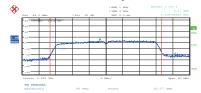
Fig.24 Conducted Output Power CH1, 11n(40M), Rate MCS3

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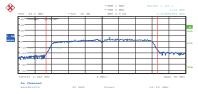
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Date: 27.SEP.2019 09:36:3

Fig.25 Conducted Output Power CH1, 11n(40M), Rate MCS4

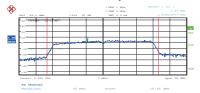


Date: 27.SEP.2019 09:36:5

Fig.26 Conducted Output Power CH1, 11n(40M), Rate MCS5

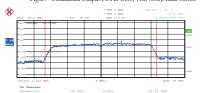
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Date: 27.SEP.2019 09:37:0

Fig.27 Conducted Output Power CH1, 11n(40M), Rate MCS6



Date: 27.SEP.2019 09:37:24

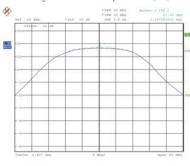
Fig.28 Conducted Output Power CH1, 11n(40M), Rate MCS7

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Fig.29 Peak Conducted Output Power CH6, 11b, Rate1



Date: 5.375.2019 20:22:47

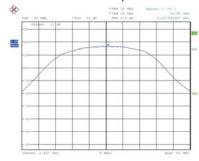
Fig.30 Peak Conducted Output Power CH6, 11b, Rate2

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Fig.31 Peak Conducted Output Power CH6, 11b, Rate5.5



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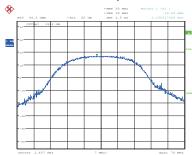
Fig.32 Peak Conducted Output Power CH6, 11b, Rate11

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Tel: 0086-23-88069965 FAX: 0086-23-88608777

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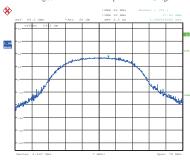
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Date: 27.SEP.2019 08:58:44

Fig.33 Peak Conducted Output Power CH6, 11g, Rate6

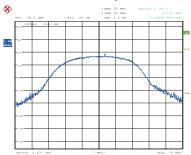


Date: 27 SED 2019 08-58-58

Fig. 34 Conducted Output Power CH6, 11g, Rate9

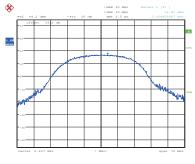
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Date: 27.SEP.2019 08:59:09

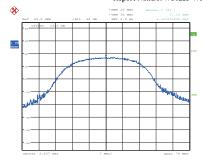
Fig.35 Conducted Output Power CH6, 11g, Rate12



Date: 27.SEP.2019 08:59:19

Fig.36 Conducted Output Power CH6, 11g, Rate18

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Date: 27.SEP.2019 08:59:29

Fig.37 Conducted Output Power CH6, 11g, Rate24

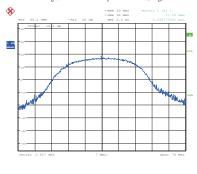


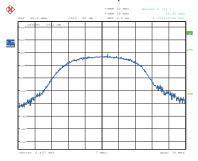
Fig.38 Conducted Output Power CH6, 11g, Rate36

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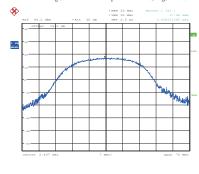
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te: 27.5EP.2019 08:59:51

Fig.39 Conducted Output Power CH6, 11g, Rate48



7.SEP.2019 09:00:03

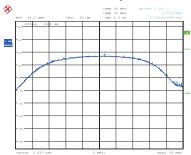
Fig. 40 Conducted Output Power CH6, 11g, Rate54

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Date: 27.5EP.2019 09:23:08

Fig.41 Conducted Output Power CH6, 11n, Rate MCS0

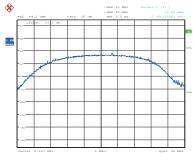
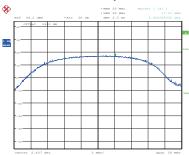


Fig.42 Conducted Output Power CH6, 11n, Rate MCS1

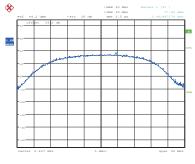
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Date: 27.5EP.2019 09:23:38

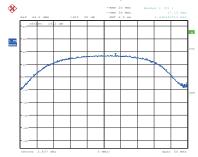
Fig.43 Conducted Output Power CH6, 11n, Rate MCS2



Date: 27.SEP.2019 09:23:46

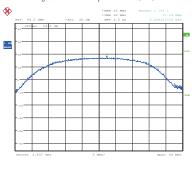
Fig.44 Conducted Output Power CH6, 11n, Rate MCS3

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Fig.45 Conducted Output Power CH6, 11n, Rate MCS4



7.SEP.2019 09:24:18

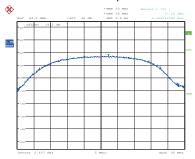
Fig.46 Conducted Output Power CH6, 11n, Rate MCS5

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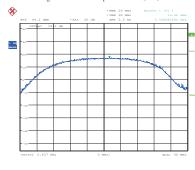
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Date: 27 SED 2019 09-24-30

Fig.47 Conducted Output Power CH6, 11n, Rate MCS6



Date: 27.SEP.2019 09:24:39

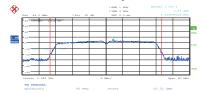
Fig.48 Conducted Output Power CH6, 11n, Rate MCS7

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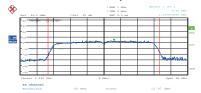
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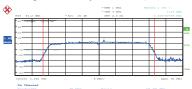
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Date: 27.SEP.2019 09:39:09

Fig.49 Conducted Output Power CH6, 11n(40M), Rate MCS0



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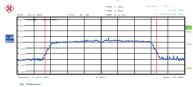
Fig.52 Conducted Output Power CH6, 11n(40M), Rate MCS3

Fig.51 Conducted Output Power CH6, 11n(40M), Rate MCS2

ste: 27.SEP.2019 09:39:22

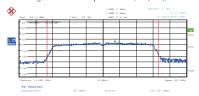
Fig.50 Conducted Output Power CH6, 11n(40M), Rate MCS1

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Date: 27.SEP.2019 09:40:5

Fig.53 Conducted Output Power CH6, 11n(40M), Rate MCS4



Date: 27.SEP.2019 09:41:11

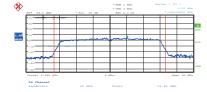
Fig.54 Conducted Output Power CH6, 11n(40M), Rate MCS5

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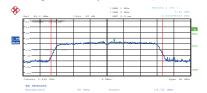
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Date: 27.SEP.2019 09:41:2

Fig.55 Conducted Output Power CH6, 11n(40M), Rate MCS6



Date: 27.5EP.2019 09:41:46

Fig.56 Conducted Output Power CH6, 11n(40M), Rate MCS7

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Fig.57 Conducted Output Power CH11, 11b, Rate1



Fig.58 Conducted Output Power CH11, 11b, Rate2

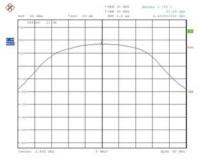
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Date: 5.37112019 20:24:10

Fig.59 Conducted Output Power CH11, 11b, Rate5.5



Date: 5-30512019 20123151

Fig.60 Conducted Output Power CH11, 11b, Rate11

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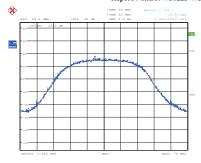


Fig.61 Conducted Output Power CH11, 11g, Rate6

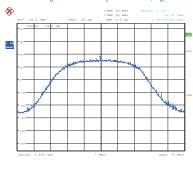


Fig.62 Conducted Output Power CH11, 11g, Rate9

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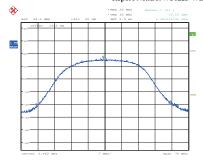




Fig.64 Conducted Output Power CH11, 11g, Rate18

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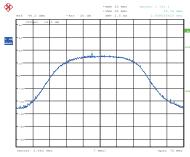


Fig.65 Conducted Output Power CH11, 11g, Rate24

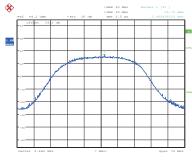


Fig.66 Conducted Output Power CH11, 11g, Rate36

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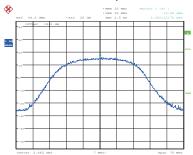


Fig.67 Conducted Output Power CH11, 11g, Rate48

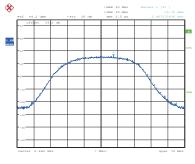
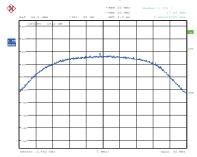


Fig.68 Conducted Output Power CH11, 11g, Rate54

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Fig.69 Conducted Output Power CH11, 11n, Rate MCS0

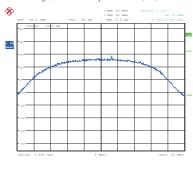


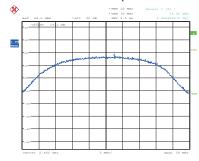
Fig.70 Conducted Output Power CH11, 11n, Rate MCS1

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Date: 27.SEP.2019 09:26:35

Fig.71 Conducted Output Power CH11, 11n, Rate MCS2

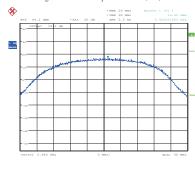


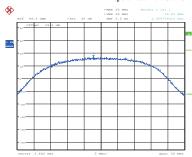
Fig.72 Conducted Output Power CH11, 11n, Rate MCS3

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Date: 27.SEP.2019 09:26:58

Fig.73 Conducted Output Power CH11, 11n, Rate MCS4

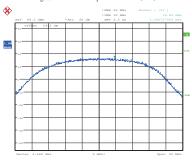
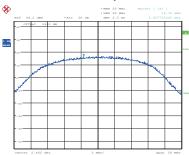


Fig.74 Conducted Output Power CH11, 11n, Rate MCS5

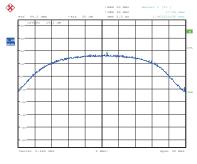
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Date: 27.5EP.2019 09:27:20

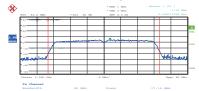
Fig.75 Conducted Output Power CH11, 11n, Rate MCS6



Date: 27.SEP.2019 09:27:39

Fig.76 Conducted Output Power CH11, 11n, Rate MCS7

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Date: 27 SED 2019 09-42-1

Fig.77 Conducted Output Power CH11, 11n(40M), Rate MCS0



Date: 27.SEP.2019 09:42:26

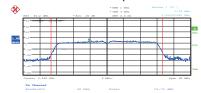
Fig.78 Conducted Output Power CH11, 11n(40M), Rate MCS1

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Fig.79 Conducted Output Power CH11, 11n(40M), Rate MCS2



Date: 27.SEP.2019 09:42:59

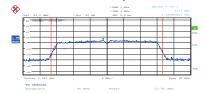
Fig.80 Conducted Output Power CH11, 11n(40M), Rate MCS3

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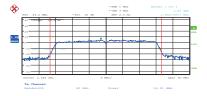
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Date: 27.SEP.2019 09:43:1

Fig.81 Conducted Output Power CH11, 11n(40M), Rate MCS4

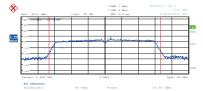


Date: 27.SEP.2019 09:43:27

Fig.82 Conducted Output Power CH11, 11n(40M), Rate MCS5

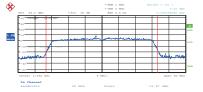
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Date: 27.SEP.2019 09:43:40

Fig.83 Conducted Output Power CH11, 11n(40M), Rate MCS6



Date: 27.SEP.2019 09:43:56

Fig.84 Conducted Output Power CH11, 11n(40M), Rate MCS7

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5.2 Peak Power Spectral Density

| Specifications: | FCC CFR Part 15.247(e) |
|------------------------------------|-----------------------------------------------------------------------------------|
| DUT Serial Number: 353081090308407 | |
| Test conditions: | Ambient Temperature:15 °C-35 °C Relative Humidity:30%-60% Air pressure: 86-106kPa |
| Test Results: | |

Limit Level Construction:

| Standard | Limit |
|------------------------|--------------|
| FCC CFR Part 15.247(e) | < 8dBm/3 KHz |

| Measurement Uncertainty: | | | |
|--------------------------|-------------------------|--------------|--|
| | Measurement Uncertainty | ±0.82dBm/KHz | |

Test procedure:

The measurement is according to ANSI C63.10 clause 11.10.

- The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- Enable EUT transmitter maximum power continuously.

 Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to 3 kHz \leq RBW \leq 100 kHz.
- Set the VBW \geq [3 × RBW].
- Detector = peak.

 Sweep time = auto couple.
- Trace mode = max hold.

- 10. Allow trace to fully stabilize.11. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 12. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

Note: --

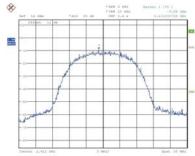
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Date: 27.SEP.2019 15:21:

Fig.85 Power spectral density: CH1,11b

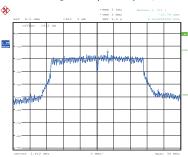


Fig.86 Power spectral density: CH1,11g

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Ch1

-9.08

-17.80

-19.82

Power Spectral Density(dBm/3kHz)

Ch6

-9.68

-15.77

-16.87

-19.23

Test Results:

Mode

802.11b

802.11g

802.11n(20MHz)

802.11n(40MHz)

Conclusion: PASS

802.11b/g/n mode

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Ch11

-9.79

-16.88

-16.95

-19.98

Conclusion

Pass

Pass

Pass

Pass

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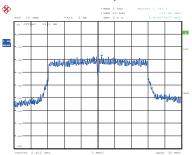


Fig.87 Power spectral density: CH1,11n

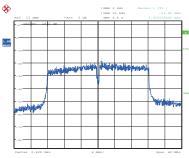
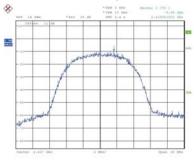


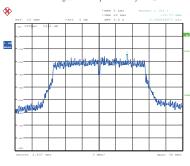
Fig. 88 Power spectral density: CH1,11n(40M)

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Fig.89 Power spectral density: CH6,11b



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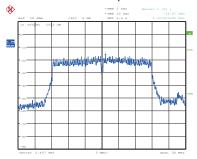
Fig.90 Fig.66 Power spectral density: CH6,11g

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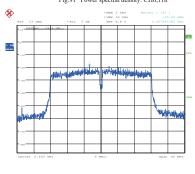
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n-a-- 22 ppn 2010 12-42-51

Fig.91 Power spectral density: CH6,11n



Date: 27.SEP.2019 13:45:46

Fig.92 Power spectral density: CH6,11n(40M)

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Date: 5.JULINIS ISTRACI

Fig.93 Power spectral density: CH11,11b

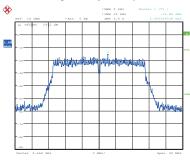
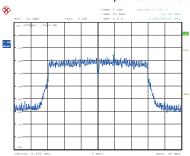


Fig.94 Power spectral density: CH11,11g

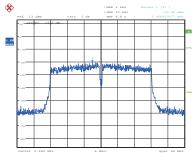
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Date: 27.SEP.2019 13:44:21

Fig.95 Power spectral density: CH11,11n



Date: 27.SEP.2019 13:46:11

Fig.96 Power spectral density: CH11,11n(40M)

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5.3 6dB Occupied Bandwidth

| Specifications: | Specifications: FCC 47 CFR Part 15.247(a) | |
|------------------------------------|-------------------------------------------|--|
| DUT Serial Number: 353081090308407 | | |
| | Ambient Temperature:15℃-35℃ | |
| Test conditions: | Relative Humidity:30%-60% | |
| | Air pressure: 86-106kPa | |
| Test Results: | == | |

Limit Level Construction:

| Standard | Limit(KHz) |
|---------------------------|------------|
| FCC 47 CFR Part 15.247(a) | ≥500 |

Measurement Uncertainty:

| easurement oncertainty. | | |
|-------------------------|---------|--|
| Measurement Uncertainty | ±1.1KHz | |

Test Procedure

The measurement is according to ANSI C63.10 clause 11.8.

- The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- Enable EUT transmitter maximum power continuously. Set RBW = 100 kHz.
- Set the VBW \geq [3 × RBW].
- Detector = peak.

 Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: --

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Ch1

9.295

4.247

4.086

17,468

Occupied 6dB Bandwidth(MHz)

Ch6

9,455

5.529

5.529

11.378

Test Result:

802.11b/g/n mode

Mode

802.11b

802.11g

802.11n(20MHz)

802.11n(40MHz)

Conclusion: PASS

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Ch11

8.574

7.452

5.583

15.224

Conclusion

Pass

Pass

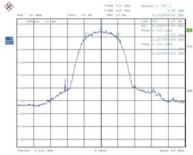
Pass

Pass

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Test figure as below



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Fig.97 6dB Bandwidth: Ch1,11b

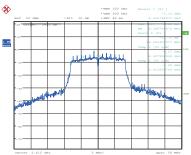


Fig.98 6dB Bandwidth: Ch1,11g

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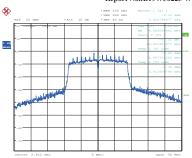


Fig.99 6dB Bandwidth: Ch1,11n

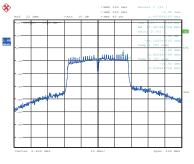


Fig.100 6dB Bandwidth: Ch1,11n(40M)

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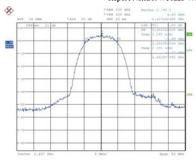
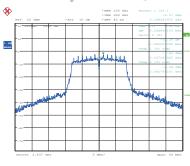


Fig.101 6dB Bandwidth: Ch6,11b



ate: 27.SEP.2019 13:51:33

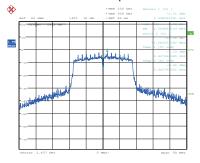
Fig.102 6dB Bandwidth: Ch6,11g

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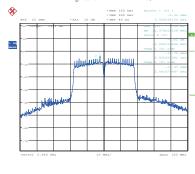
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Date: 27.SEP.2019 13:52:28

Fig.103 6dB Bandwidth: Ch6,11n



9 13:53:30

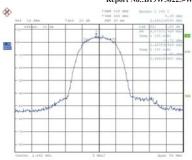
Fig.104 6dB Bandwidth: Ch6,11n(40M)

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Fig.105 6dB Bandwidth: Ch11,11b

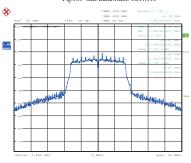
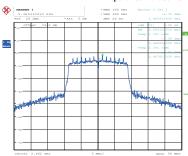


Fig.106 6dB Bandwidth: Ch11,11g

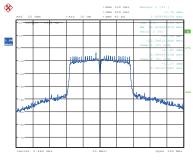
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ate: 27.SEP.2019 15:32:25

Fig.107 6dB Bandwidth: Ch11,11n



Date: 27.SEP.2019 13:53:44

Fig.108 6dB Bandwidth: Ch11,11n(40M)

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5.4 Band Edges Compliance

| Specifications: FCC 47 CFR Part 15.247(d) | |
|-------------------------------------------|-----------------------------------------------------------------------------------|
| DUT Serial Number: 353081090308282 | |
| Test conditions: | Ambient Temperature:15 °C-35 °C Relative Humidity:30%-60% Air pressure: 86-106kPa |
| Test Results: | |

Limit Level Construction:

| Standard | Limited(dl | BuV/m) |
|---------------------------|------------|--------|
| FCC 47 CFR Part 15.247(d) | Peak | 74 |
| FCC 47 CFR Fant 15.247(d) | Average | 54 |

Measurement Uncertainty:

| Frequency Range | Uncertainty | |
|-----------------|-------------|--|
| 1 GHz to 6 GHz | 4.68 | |

Test Procedure

- The measurement is according to ANSI C63.10 clause11.13.

 1. Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band
- 2. Reference level offset: Corrected for gains and losses of test antenna factor, preamp gain and cable loss, so as to indicate field strength, in units of $dB\mu V/m$ at 3 m, directly on the instrument display. Alternatively, the reference level offset may be set to zer and calculations shall be provided showing the conversion of raw measured data to thefield strength in dBµV/m at 3 m.
- Reference level: As required to keep the signal from exceeding the maximum spectrum analyzer input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2..
- Attenuation: Auto (at least 10 dB preferred).
- Sweep time: Coupled.
- Resolution bandwidth: Above 1 GHz: 1 MHz
- Video bandwidth: VBW for Peak, Quasi-peak, or Average Detector Function: 3×RBW
- Detector (unless specified otherwise): Peak and average above I GHz
 Trace: Max hold for final measurement; a combination of two traces, clear-write and max hold, is recommended for maximizing the emission.

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Test Result:

| mode | Channel | Test Results(dBuV/m) | | | Conclusion |
|---------|---------|----------------------|-------------|--------|------------|
| | 1 | Peak | 2390.000MHz | 43.216 | Pass |
| | | Average | 2390.000MHz | 31.600 | |
| 802.11b | | Fig.109 | | | |
| 802.116 | | Peak | 2483.500MHz | 44.704 | Pass |
| | 11 | Average | 2483.500MHz | 33.678 | |
| | | Fig.110 | | | |
| | 1 | Peak | 2390.000MHz | 45.865 | Pass |
| | | Average | 2390.000MHz | 33.385 | |
| 802.11g | | | Fig.111 | | |
| 802.11g | 11 | Peak | 2483.500MHz | 43.889 | |
| | | Average | 2483.500MHz | 32.638 | Pass |
| | | | Fig.112 | | |

802.11n mode

| mode | Channel | Test Results(dBuV/m) | | Conclusion | |
|---------|---------|----------------------|-------------|------------|------|
| | | Peak | 2390.000MHz | 47.269 | |
| | 3 | Average | 2390.000MHz | 33.702 | Pass |
| 802.11n | | | Fig.113 | | |
| (20MHz) | | Peak | 2483.500MHz | 45.420 | |
| | 11 | Average | 2483.500MHz | 34.594 | Pass |
| | | Fig.114 | | | |
| | 3 | Peak | 2380.000MHz | 43.693 | |
| | | Average | 2380.000MHz | 33.303 | Pass |
| 802.11n | | Fig.115 | | | |
| (40MHz) | | Peak | 2485.200MHz | 50.455 | |
| | 9 | Average | 2483.500MHz | 35.874 | Pass |
| | | | Fig.116 | | |

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Conclusion: PASS

Test figure as below

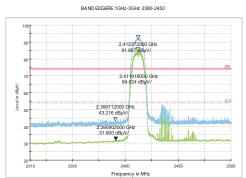


Fig.109 Frequency Band Edge: Ch1,11b BAND EDGERE 1GHz-3GHz 2483.5-2500

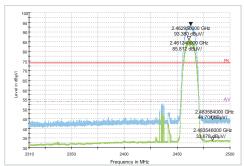


Fig.110 Frequency Band Edge: Ch11,11b

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BAND EDGERE 1GHz-3GHz 2380-2450

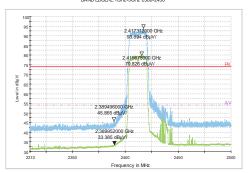


Fig.111 Frequency Band Edge: Ch1,11g BAND EDGERE 1GHz-3GHz 2483.5-2500

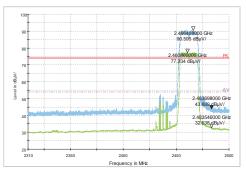


Fig.112 Frequency Band Edge: Ch11,11g

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BAND EDGERE 1GHz-3GHz 2380-2450

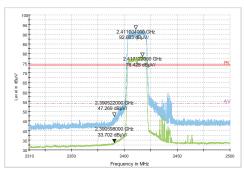


Fig.113 Frequency Band Edge: Ch1,11n(20M) BAND EDGERE 1GHz-3GHz 2483.5-2500



Fig.114 Frequency Band Edge: Ch11,11n(20M)

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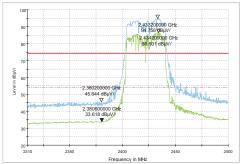


Fig.115 Frequency Band Edge: Ch3,11n(40M) RE 1GHz-3GHz

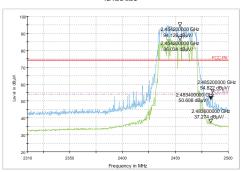


Fig.116 Frequency Band Edge: Ch9,11n(40M)

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5.5 Transmitter Spurious Emission-Conducted

| Specifications: FCC 47 CFR Part15.247 (d) | |
|-------------------------------------------|-----------------------------------------------------------------------------------|
| DUT Serial Number: 353081090308407 | |
| Test conditions: | Ambient Temperature:15 °C-35 °C Relative Humidity:30%-60% Air pressure: 86-106kPa |
| Test Results: | |

Limit

| Standard | Limit |
|---------------------------|-----------------------------------------------------|
| FCC 47 CFR Part15.247 (d) | 20dB below peak output power in 100KHz bandwidth |

Measurement Uncertainty:

| Frequency Range | Uncertainty |
|-----------------------------|-------------|
| $30 MHz \leq f \leq 26 GHz$ | ±2.7 |

Test Procedure

- This measurement is according to ANSI C63.10 clause 11.11.

 1. The output power of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- Enable EUT transmitter maximum power continuously.

Reference level measurement

- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth. Set the RBW = 100 kHz.
- Set the VBW \geq [3 \times RBW].
- Detector = peak.

 Sweep time = auto couple.

 Trace mode = max hold.
- 10. Allow trace to fully stabilize.
- 11. Use the peak marker function to determine the maximum PSD level.

Emission level measurement

- 12. Set the center frequency and span to encompass frequency range to be measured.
- 13. Set the RBW = 100 kHz.
 14. Set the VBW ≥ [3 × RBW].
- 15. Detector = peak.
 16. Sweep time = auto couple.
 17. Trace mode = max hold.
- 18. Allow trace to fully stabilize
- 19. Use the peak marker function to determine the maximum amplitude level.

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Test Result:

| Mode | Channel | Frequency Range | Test Results | Conclusion |
|---------|---------|-----------------|--------------|------------|
| | | 2.412GHz | Fig.117 | Pass |
| | 1 | 30MHz~26GHz | Fig.118 | Pass |
| 802.11b | 6 | 2.437GHz | Fig.119 | Pass |
| 802.116 | 0 | 30MHz~26GHz | Fig.120 | Pass |
| | 11 | 2.462GHz | Fig.121 | Pass |
| | | 30MHz~26GHz | Fig.122 | Pass |
| | 1 | 2.412GHz | Fig.123 | Pass |
| | | 30MHz~26GHz | Fig.124 | Pass |
| 002.11 | 6 | 2.437GHz | Fig.125 | Pass |
| 802.11g | 11 | 30MHz~26GHz | Fig.126 | Pass |
| | | 2.462GHz | Fig.127 | Pass |
| | | 30MHz~26GHz | Fig.128 | Pass |

802.11n mode

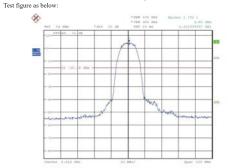
| Mode | Channel | Frequency Range | Test Results | Conclusion |
|---------|----------------------|-----------------|--------------|------------|
| | , | 2.412GHz | Fig.129 | Pass |
| | 6 | 30MHz~26GHz | Fig.130 | Pass |
| 802.11n | | 2.437GHz | Fig.131 | Pass |
| (20MHz) | | 30MHz~26GHz | Fig.132 | Pass |
| | | 2.462GHz | Fig.133 | Pass |
| | | 30MHz~26GHz | Fig.134 | Pass |
| | 802.11n (40MHz) 6 | 2.422GHz | Fig.135 | Pass |
| | | 30MHz~26GHz | Fig.136 | Pass |
| 802.11n | | 2.442GHz | Fig.137 | Pass |
| (40MHz) | | 30MHz~26GHz | Fig.138 | Pass |
| | 11 | 2.462GHz | Fig.139 | Pass |
| | 11 | 30MHz~26GHz | Fig.140 | Pass |

Conclusion: PASS

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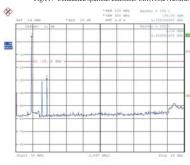
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Date: 5.375.2019 20103139

Fig.117 Conducted spurious emission: Ch1,11b,2412MHz



te: 5.375.2019 29:04:20

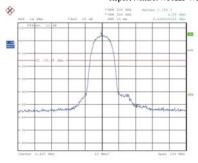
Fig.118 Conducted spurious emission: Ch1,11b,30MHz~26GHz

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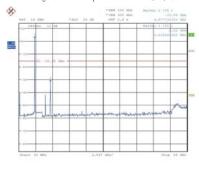
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Date: 5.375.2719 20105145

Fig. 119 Conducted spurious emission: Ch6.11b.2437MHz



Dates 5_375_2713 2010410

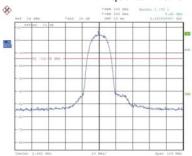
Fig.120 Conducted spurious emission: Ch6,11b,30MHz~26GHz

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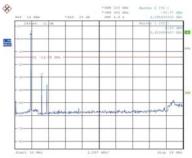
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Dates S.JULISIS INCOME.

Fig.121 Conducted spurious emission: Ch11,11b,2462MHz

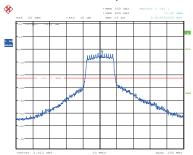


Date: %_DULLEUS ID-DB:II

Fig.122 Conducted spurious emission: Ch11,11b,30MHz~26GHz

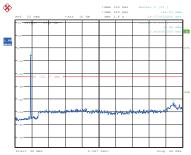
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Date: 27.SEP.2019 14:11:4

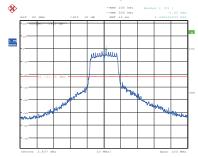
Fig.123 Conducted spurious emission: Ch1,11g,2412MHz



Date: 27.SEP.2019 14:12:10

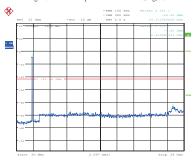
Fig.124 Conducted spurious emission: Ch1,11g,30MHz~26GHz

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Date: 27 PPR 2010 14-12-10

Fig. 125 Conducted spurious emission: Ch6.11g.2437MF



e: 27.SEP.2019 14:13:40

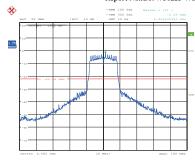
Fig.126 Conducted spurious emission: Ch6,11g,30MHz~26GHz

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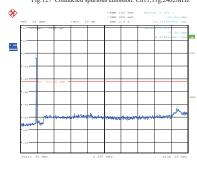
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Report No.:B19W50225-WLAN_Rev4



Date: 27.SEP.2019 14:14:27

Fig.127 Conducted spurious emission: Ch11,11g,2462MHz



Date: 27.SEP.2019 14:14:53

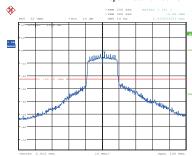
Fig.128 Conducted spurious emission: Ch11,11g,30MHz~26GHz

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Date: 27.SEP.2019 14:18:00

Fig.129 Conducted spurious emission: Ch1,11n,2412MHz

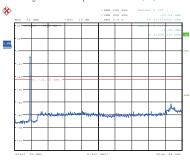
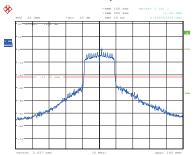


Fig.130 Conducted spurious emission: Ch1,11n,30MHz~26GHz

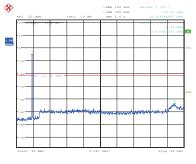
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Date: 27.5EP.2019 14:19:3

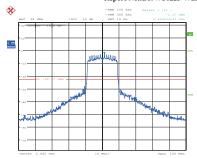
Fig.131 Conducted spurious emission: Ch6,11n,2437MHz



Date: 27.SEP.2019 14:19:55

 $Fig. 132\ \ Conducted\ spurious\ emission: Ch6, 11n, 30MHz\sim 26GHz$

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Date: 27.SEP.2019 14:20:47

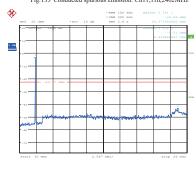


Fig.134 Conducted spurious emission: Ch11,11n,30MHz~26GHz

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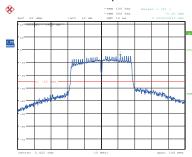
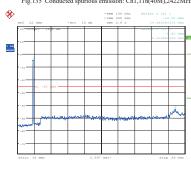


Fig.135 Conducted spurious emission: Ch1,11n(40M),2422MHz



Date: 27.SEP.2019 14:22:48

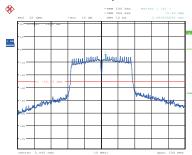
Fig.136 Conducted spurious emission: Ch1,11n(40M),30MHz~26GHz

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Date: 27.SEP.2019 14:23:35

Fig.137 Conducted spurious emission: Ch6,11n(40M),2442MHz

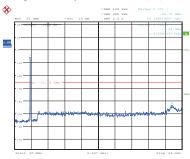
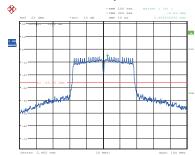


Fig.138 Conducted spurious emission: Ch6,11n(40M),30MHz~26GHz

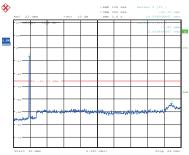
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Date: 27.SEP.2019 14:24:36

Fig.139 Conducted spurious emission: Ch11,11n(40M),2462MHz



Date: 27.SEP.2019 14:24:59

 $Fig. 140\ \ Conducted\ spurious\ emission:\ Ch11, 11n(40M), 30MHz\sim 26GHz$

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5.6 Transmitter Spurious Emission-Radiated

| Specifications: | FCC 47 CFR Part 15.247, 15.205, 15.209 |
|------------------------------------|------------------------------------------------------------------------------------|
| DUT Serial Number: 353081090308282 | |
| Test conditions: | Ambient Temperature:15 °C -35 °C Relative Humidity:30%-60% Air pressure: 86-106kPa |
| Test Results: | |

Limi

| Limit | |
|----------------------------------------|------------------------------|
| Standard | Limit |
| FCC 47 CFR Part 15.247, 15.205, 15.209 | 20dB below peak output power |

In addition, radiated emissions which fall in the restricted bands, as defined in 15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see 15.205(c)).

Measurement Uncertainty:

| Frequency Range | Uncertainty |
|--------------------------|-------------|
| $30 MHz \le f \le 2 GHz$ | ±1.13 |
| 2GHz ≤ f ≤3.6GHz | ±1.16 |
| 3.6GHz ≤ f ≤8GHz | ±2.45 |
| 8GHz ≤ f ≤12.75GHz | ±2.99 |

Limit in restricted band:

| Frequency of emission (MHz) | Field strength (uV/m) | Field strength (dBuV/m) |
|-----------------------------|-----------------------|-------------------------|
| 30~88 | 100 | 40 |
| 88~216 | 150 | 43.5 |
| 216~960 | 200 | 46 |
| Above 960 | 500 | 54 |

Test Procedure

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m, but it may be larger or smaller to accommodate various sized EUTs.

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3GHz-18GHz

18GHz-26GHz

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Pass

Fig.146

Fig.150

| Channel | Frequency Range | Test Results | Conclusion |
|---------|-----------------|--------------|------------|
| | 30MH-1GHz | Fig.147 | Pass |
| Ch11 | 1GHz-3GHz | Fig.148 | Pass |
| | 3GHz-18GHz | Fig.149 | Pass |

Note: all the test data shown was peak detected

Conclusion: PASS

All channels

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For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization

| Frequency of emission (MHz) | RBW/VBW | Sweep Time (s) |
|--------------------------------|---------------|----------------|
| 30~1000 | 100KHz/300KHz | 5 |
| 1000~4000 | 1MHz/1MHz | 15 |
| 4000~18000 | 1MHz/1MHz | 40 |
| 18000~26500 | 1MHz/1MHz | 20 |

process was repeated with the EUT positioned in each of its three orthogonal orientations.

Test Result:

 $A\ "reference\ path\ loss"\ is\ established\ and\ ARpi\ is\ the\ attenuation\ of\ "reference\ path\ loss",\ and\ including\ the\ gain\ of\ receive\ antenna\ ,\ the\ gain\ of\ the\ preamplifier,\ the\ cable\ loss.$

The measurement results are obtained as described below:

ARpi= Cable loss + Antenna Gain-Preamplifier gain

| Result=PMea + ARp |
|-------------------|
|-------------------|

| Channel | Frequency Range | Test Results | Conclusion |
|---------|-----------------|--------------|------------|
| | 30MH-1GHz | Fig.141 | Pass |
| Chl | 1GHz-3GHz | Fig.142 | Pass |
| | 3GHz-18GHz | Fig.143 | Pass |

| Channel | Frequency Range | Test Results | Conclusion |
|---------|-----------------|--------------|------------|
| Cl | 30MH-1GHz | Fig.144 | Pass |
| Ch6 | 1GHz-3GHz | Fig.145 | Pass |

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Test graphs as below:



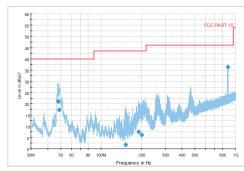


Fig.141 Radiated emission: Ch1, 30MHz-1GHz

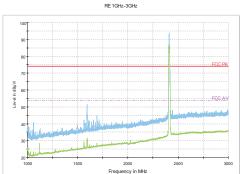


Fig.142 Radiated emission: Ch1, 1GHz-3GHz

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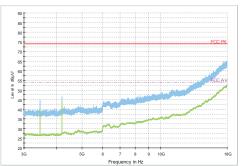


Fig.143 Radiated emission: Ch1, 3GHz-18GHz

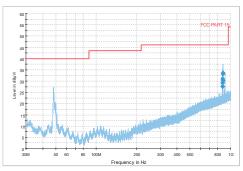


Fig.144 Radiated emission:Ch6, 30MHz-1GHz

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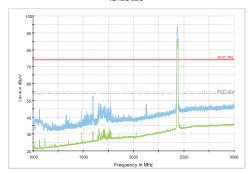


Fig.145 Radiated emission: Ch6, 1GHz-3GHz

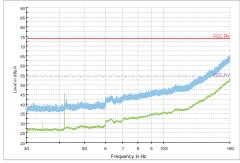


Fig.146 Radiated emission: Ch6, 3GHz-18GHz

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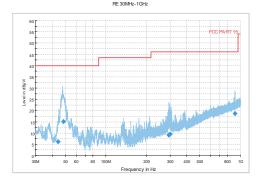


Fig.147 Radiated emission: Ch11, 30MHz-1GHz

RE 1GHz-3GHz

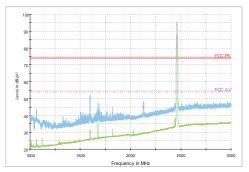


Fig.148 Radiated emission: Ch11, 1GHz-3GHz

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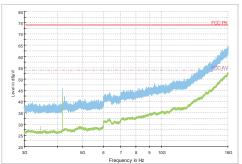


Fig.149 Radiated emission: Ch11, 3GHz-18GHz

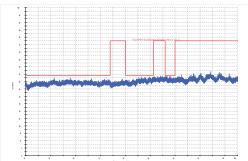


Fig.150 Radiated emission: 18 GHz - 26 GHz

See the Pic1- Pic 2 in document" AT Plus 4E $_Wifi_BT_Test$ Setup Photos".

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5.7 Power line Conducted Emissions

| Specifications: | ANSI C63.4 voltage mains test |
|------------------------------------|-----------------------------------------------------------------------------------|
| DUT Serial Number: 353081090308282 | |
| Test conditions: | Ambient Temperature:15 °C-35 °C Relative Humidity:30%-60% Air pressure: 86-106kPa |
| Test Results: | |

Limit

The EUT meets the requirement of having a peak to average ratio of less than 13dB. For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows: Measurement Uncertainty:

| Frequency Range | Uncertainty | |
|-------------------|-------------|--|
| 150 kHz to 30 MHz | 1.83 | |

Limits of the conducted disturbance at the AC mains ports:

| Frequency range | Limit(Quasi-peak) | Limit(Average) | | | |
|---------------------------------------------------------------------------------------------|-------------------|----------------|--|--|--|
| 0.15 MHz to 0.5 MHz 66 dB μ V – 56 dB μ V 56 dB μ V – 46 dB μ V | | | | | |
| >0.5 MHz to 5MHz | 56 dBμV | 46 dBμV | | | |
| >5 MHz to 30 MHz 60 dBuV 50 dBuV | | | | | |
| NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MH | | | | | |

to 0.50 MHz. Compliance with this provision shall be based on the measurement of the radio frequency voltage

between each power line (LINE and NEUTRAL) and ground at the power terminals

The EUT was placed in a shielding room. The WLAN TESTER was used to set the TX channel and power level. The ac adapter output is connected to Receiver through an AMN (Artificial

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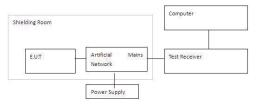
| Line N | | | | | | |
|------------------|--------------------|-----------------|-----------------|------|-----|--|
| Detector (QP) | Frequency (MHz) | Level (dBµV) | Limit (dBµV) | Line | PE | |
| QP | 0.481156 | 50.3 | 56.3 | N | FLC | |
| QP | 0.888938 | 42.0 | 56.0 | N | FLC | |
| QP | 2.117294 | 39.0 | 56.0 | N | FLC | |
| QP | 3.494631 | 36.5 | 56.0 | N | FLC | |
| QP | 3.515769 | 37.0 | 56.0 | N | FLC | |
| QP | 3.739281 | 38.0 | 56.0 | N | FLC | |

| Line N | | | | | |
|----------|-----------|--------|--------|------|-----|
| Detector | Frequency | Level | Limit | Line | PE |
| (AV) | (MHz) | (dBµV) | (dBµV) | | - |
| AV | 0.477156 | 34.3 | 46.4 | N | FLO |
| AV | 0.858312 | 29.0 | 46.0 | N | FLO |
| AV | 0.920938 | 30.4 | 46.0 | N | FLO |
| AV | 2.053294 | 25.7 | 46.0 | N | FLO |
| AV | 2.642025 | 24.4 | 46.0 | N | FLO |
| AV | 3.739281 | 24.0 | 46.0 | N | FLO |

Conclusion: PASS

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Test Procedure

- 1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
- 2. The EUT is connected via LISN to a test power supply.
- 3. The measurement results are obtained as described below:
- 4. Detectors Quasi Peak and Average Detector.

The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.4-2014.

Test Result:

Line L

| Line L | | | | | |
|------------------|--------------------|-----------------|-----------------|------|-----|
| Detector (QP) | Frequency (MHz) | Level (dBµV) | Limit (dBµV) | Line | PE |
| QP | 0.488112 | 33.6 | 56.2 | Ll | FLO |
| QP | 0.491544 | 31.8 | 56.1 | L1 | FLO |
| QP | 1.674381 | 29.6 | 56.0 | L1 | FLO |
| QP | 2.349975 | 27.8 | 56.0 | Ll | FLO |
| QP | 2.385644 | 27.8 | 56.0 | Ll | FLO |
| QP | 3.673462 | 37.8 | 56.0 | Ll | FLO |

| Line L | | | | | | |
|------------------|--------------------|-----------------|-----------------|------|-----|--|
| Detector (AV) | Frequency (MHz) | Level (dBµV) | Limit (dBµV) | Line | PE | |
| AV | 0.388144 | 33.8 | 48.1 | Ll | FLO | |
| AV | 0.515544 | 36.2 | 46.0 | Ll | FLO | |
| AV | 1.039262 | 29.5 | 46.0 | Ll | FLO | |
| AV | 2.429975 | 28.6 | 46.0 | Ll | FLO | |
| AV | 3.789162 | 25.8 | 46.0 | L1 | FLO | |
| AV | 4.478431 | 24.5 | 46.0 | Ll | FLO | |

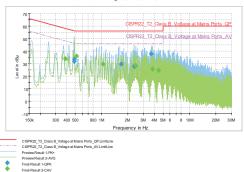
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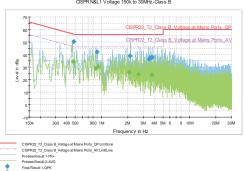
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CISPR N&L1 Voltage 150k to 30MHz-Class B



Line L

CISPR N&L1 Voltage 150k to 30MHz-Class B



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Test photo

See the Pic3 in document" AT Plus 4E _Wifi_BT_Test Setup Photos".

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Annex A EUT Photos

See the document" AT Plus 4E -External Photos". See the document" AT Plus 4E -Internal Photos".

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

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