

# FCC TEST REPORT

## (Part 15, Subpart E)

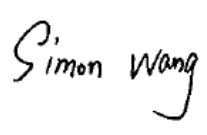

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	Redmi
Model Name:	23053RN02Y
FCC ID:	2AFZZRN02Y
Date of tests:	Mar. 06, 2023 ~ Mar. 29, 2023

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart E, Section 15.407**

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Mar. 29, 2023	 Date: Mar. 29, 2023

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## TABLE OF CONTENTS

<b>RELEASE CONTROL RECORD .....</b>	<b>4</b>
1 SUMMARY OF TEST RESULTS .....	5
1.1 MEASUREMENT UNCERTAINTY .....	6
2 GENERAL INFORMATION .....	7
2.1 GENERAL DESCRIPTION OF EUT .....	7
2.2 DESCRIPTION OF TEST MODES .....	9
2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL .....	12
2.3 DUTY CYCLE OF TEST SIGNAL .....	17
2.4 DESCRIPTION OF SUPPORT UNITS .....	18
2.4.1 CONFIGURATION OF SYSTEM UNDER TEST .....	19
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS .....	20
<b>3 TEST TYPES AND RESULTS .....</b>	<b>21</b>
3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT .....	21
3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT .....	21
3.1.2 LIMITS OF UNWANTED EMISSION .....	21
3.1.3 TEST INSTRUMENTS .....	22
3.1.4 TEST PROCEDURES .....	23
3.1.5 DEVIATION FROM TEST STANDARD .....	23
3.1.6 TEST SETUP .....	24
3.1.7 EUT OPERATING CONDITION .....	25
3.1.8 TEST RESULTS .....	26
3.2 CONDUCTED EMISSION MEASUREMENT .....	115
3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT .....	115
3.2.2 TEST INSTRUMENTS .....	115
3.2.3 TEST PROCEDURES .....	115
3.2.4 DEVIATION FROM TEST STANDARD .....	116
3.2.5 TEST SETUP .....	116
3.2.6 EUT OPERATING CONDITIONS .....	116
3.2.7 TEST RESULTS .....	117
3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT .....	119
3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT .....	119
3.3.2 TEST SETUP .....	120
3.3.3 TEST INSTRUMENTS .....	120

3.3.4	TEST PROCEDURE .....	121
3.3.5	DEVIATION FROM TEST STANDARD .....	123
3.3.6	EUT OPERATING CONDITIONS .....	123
3.3.7	TEST RESULTS .....	124
3.4	MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT .....	125
3.4.1	LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT .....	125
3.4.2	TEST SETUP .....	125
3.4.3	TEST INSTRUMENTS .....	125
3.4.4	TEST PROCEDURES .....	126
3.4.5	DEVIATION FROM TEST STANDARD .....	126
3.4.6	EUT OPERATING CONDITIONS .....	126
3.4.7	TEST RESULTS .....	127
3.5	AUTOMATICALLY DISCONTINUE TRANSMISSION .....	128
3.5.1	LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION .....	128
3.5.2	TEST INSTRUMENTS .....	128
3.5.3	TEST RESULT .....	128
3.6	ANTENNA REQUIREMENTS .....	129
3.6.1	STANDARD APPLICABLE .....	129
3.6.2	ANTENNA CONNECTED CONSTRUCTION .....	129
3.6.3	ANTENNA GAIN .....	129
<b>4</b>	<b>PHOTOGRAPHS OF THE TEST CONFIGURATION .....</b>	<b>130</b>
<b>5</b>	<b>MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB</b>	<b>131</b>
<b>6</b>	<b>APPENDIX: RLAN .....</b>	<b>132</b>

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23030004RF03	Original release	Mar. 29, 2023

# 1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E		
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT
15.407(b)(6)	AC Power Conducted Emission	Compliance
15.407(b) (1/2/3/4/5)	Radiated Emission & Band Edge Measurement	Compliance
15.407(a/1/2/3)	Maximum conducted output Power	Compliance
15.407(a/1/2/3)	Peak Power Spectral Density	Compliance
15.407(i)	26 dB Bandwidth	Compliance
15.407(e)	6 dB Bandwidth	Compliance
15.203	Antenna Requirement	Compliance

**NOTE:**

1. Except the data of RSE and Band Edge Measurement, other data please refer to the appendix.

## 1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .



## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Mobile Phone
<b>BRAND NAME</b>	Redmi
<b>MODEL NAME</b>	23053RN02Y
<b>NOMINAL VOLTAGE</b>	5V/9V/10V/12Vdc(adapter or host equipment) 3.8Vdc (Li-ion, battery)
<b>MODULATION</b>	OFDM
<b>TRANSFER RATE</b>	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps 802.11ac: up to 866.6Mbps
<b>OPERATING FREQUENCY</b>	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
<b>NUMBER OF CHANNEL</b>	5180 ~ 5240MHz: 4 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5720MHz: 11 for 802.11a, 802.11n, 802.11ac(20MHz) 5 for 802.11n, 802.11ac (40MHz) 2 for 802.11ac (80MHz) 5745 ~ 5825MHz: 4 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz)
<b>AVERAGE POWER</b>	55.59 mW for 5180 ~ 5240MHz 54.70 mW for 5260 ~ 5320MHz 53.95 mW for 5500 ~ 5720MHz 53.95 mW for 5745 ~ 5825MHz
<b>ANTENNA TYPE</b>	IFA Antenna
<b>ANTENNA GAIN</b>	-3.6dBi for 5180 ~ 5240MHz -3.9dBi for 5260 ~ 5320MHz -3.8dBi for 5500 ~ 5720MHz -4.3dBi for 5745 ~ 5825MHz
<b>HW VERSION</b>	P1.1
<b>SW VERSION</b>	MIUI14
<b>IMEI</b>	867457060032244 867457060047483 867457060047491
<b>I/O PORTS</b>	Refer to user's manual



<b>CABLE SUPPLIED</b>	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter
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**NOTE:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

<b>MODULATION MODE</b>	<b>TX FUNCTION</b>
<b>802.11a</b>	1TX/1RX
<b>802.11n/802.11ac (20MHz)</b>	1TX/1RX
<b>802.11n/802.11ac (40MHz)</b>	1TX/1RX
<b>802.11ac (80MHz)</b>	1TX/1RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

## 2.2 DESCRIPTION OF TEST MODES

### FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

### FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		

**FOR 5500 ~ 5720MHz**

12 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620MHz
104	5520 MHz	128	5640MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	138	5690 MHz
122	5610 MHz		

## FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
142	5710 MHz	159	5795 MHz
151	5755 MHz		

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY
155	5775 MHz

## 2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	-	Powered by Adapter with wifi(5G) link
B	-	-	-	√	Powered by Battery with wifi(5G) link
C	-	-	-	-	Powered by USB with wifi(5G) link

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz  
**PLC**: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

**NOTE:**

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

**NOTE:** "-" means no effect

### RADIATED EMISSION TEST (BELOW 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5745-5825	144 to 165	165	OFDM	MCS0



**RADIATED EMISSION TEST (ABOVE 1GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11an/ac (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11an/ac (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11an/ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11an/ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11an/ac (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144,149, 157,165	OFDM	6.0
A	802.11an/ac (20MHz)		144 to 165	144,149, 157,165	OFDM	MCS0
A	802.11an/ac (40MHz)		142 to 159	142,151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138 to 155	138,155	OFDM	MCS0

**POWER LINE CONDUCTED EMISSION TEST:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5745-5825	144 to 165	165	OFDM	MCS0

**BANDEGE MEASUREMENT:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11an/ac (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11an/ac (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11an/ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11an/ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11an/ac/ (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11an/ac (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11an/ac (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138,155	138, 155	OFDM	MCS0

**ANTENNA PORT CONDUCTED MEASUREMENT:**

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11an/ac (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11an/ac (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11an/ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11an/ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11an/ac (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11an/ac (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11an/ac (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138,155	138, 155	OFDM	MCS0

**TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5V/9V/10V/12V By Adapter	Jace Hu
RE≥1G	23deg. C, 70%RH	DC 5V/9V/10V/12V By Adapter	Jace Hu
PLC	25deg. C, 52%RH	DC 5V/9V/10V/12V By Adapter	James Fu
APCM	25deg. C, 60%RH	DC 3.8V By Battery	James Fu

## 2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix A Of this test report.

### WORST-CASE DATA:

Measured Duty Cycle		
Mode		Duty Cycle [%]
		ANT1
5GHZ	11a	97.22
	11n20	97.01
	11n40	94.20
	11ac20	97.04
	11ac40	94.29
	11ac80	89.19

Note:

Duty cycle of test signal is < 98%, duty factor shall be considered.

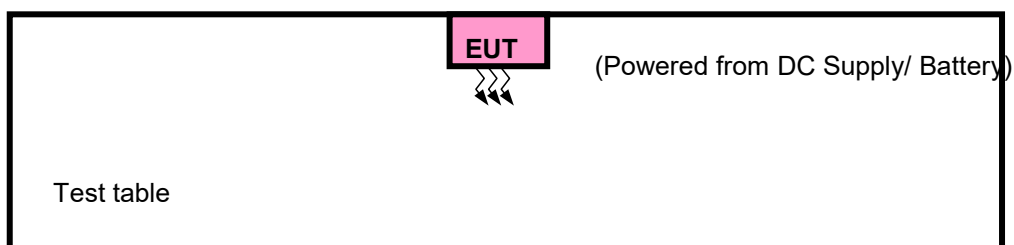
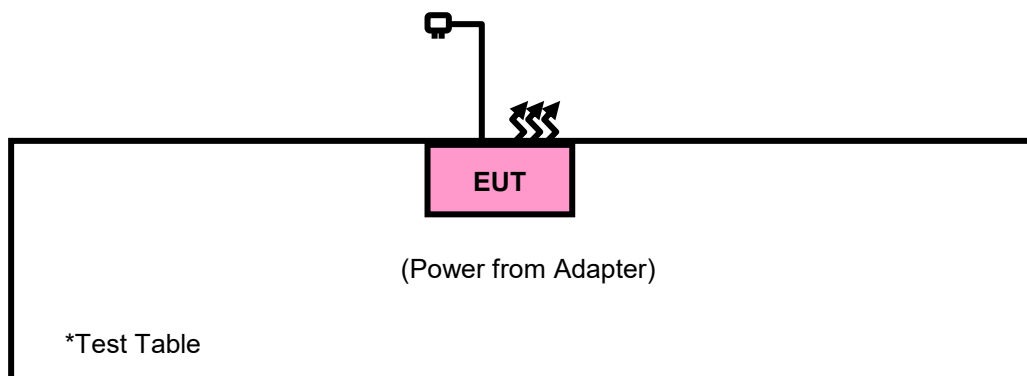
## 2.4 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	ThinkpadL440	R90FTFKN	N/A
4	DC source	Kikusui/JP	PMX18-5A	0000001	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m
4	DC Line: Unshielded, Detachable 1.0m

## 2.4.1 CONFIGURATION OF SYSTEM UNDER TEST



## 2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC Part 15, Subpart E (15.407)**

**KDB 789033 D02 General U-NII Test Procedures New Rules v02r01**

**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards.

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

### 3 TEST TYPES AND RESULTS

#### 3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

##### 3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

##### 3.1.2 LIMITS OF UNWANTED EMISSION

RESTRICTED BANDS	APPLICABLE TO	LIMIT	
	789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m (dBμV/m)	
		PK : 74	AV : 54
OUT OF THE RESTRICTED BANDS	APPLICABLE TO	EIRP LIMIT (dBm/MHz)	EQUIVALENT FIELD STRENGTH AT 3m (dBμV/m)
	15.407(b)(1)	PK : -27	PK : 68.2
	15.407(b)(2)		
	15.407(b)(3)		
	15.407(b)(4)	See note 2 (FCC 16-24)	

**NOTE:** The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

2. All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

### 3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,23	Mar. 04,24
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 05,23	Mar. 04,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.04, 22	Sep.03, 23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	N/A	May. 12,22	May. 11,23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 17,23	Feb. 16,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb. 16,24
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 12,22	Aug. 11,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,22	Sep.02,23

**NOTE:** 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.  
2. The test was performed in 3m Chamber.  
3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

### 3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

**NOTE:**

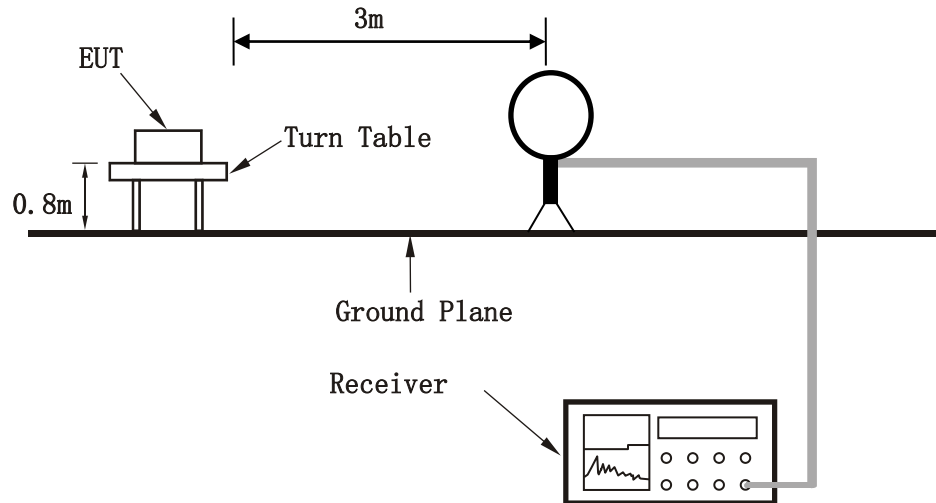
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ( $10 \log(1/\text{duty cycle})$ ).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

### 3.1.5 DEVIATION FROM TEST STANDARD

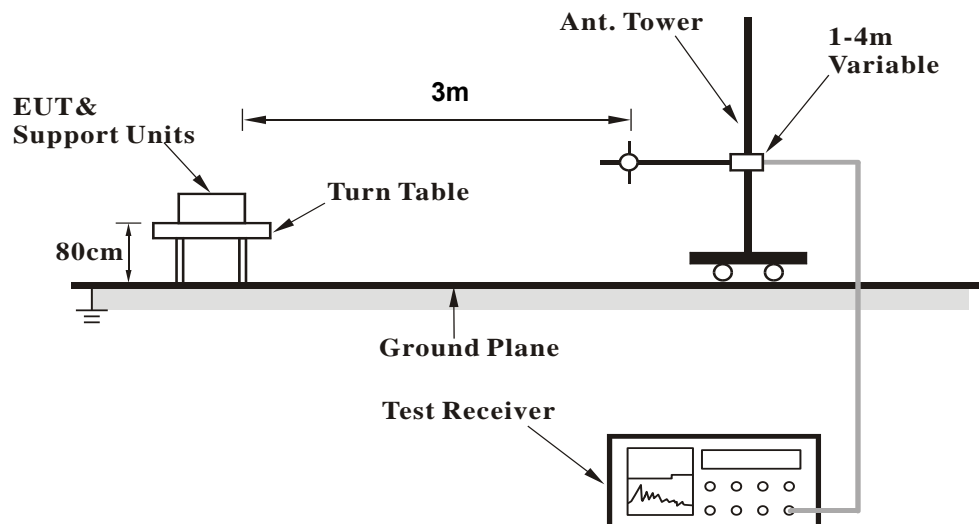
No deviation.

### 3.1.6 TEST SETUP

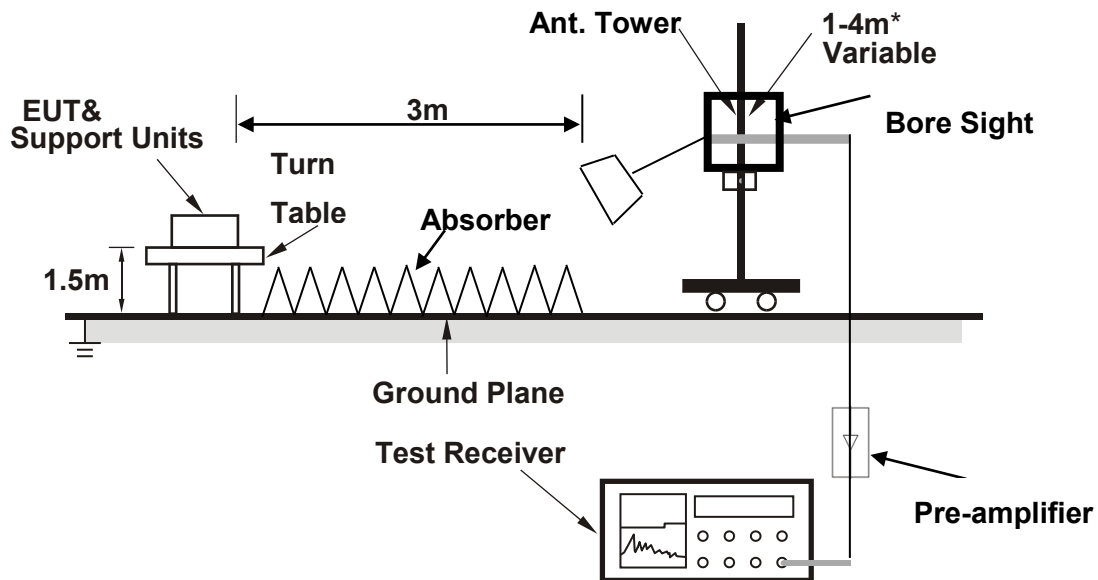
#### <Frequency Range 9KHz~30MHz >



#### < Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 3.1.7 EUT OPERATING CONDITION

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.



### 3.1.8 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

**30 MHz – 1GHz data:**

**Band 4**

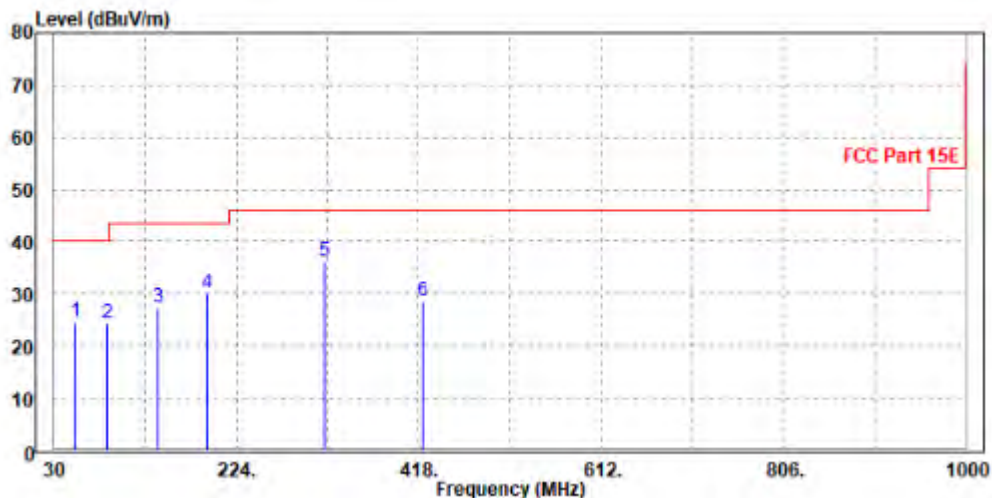
**802.11a:**

<b>CHANNEL</b>	TX Channel 165	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
52.31	24.62	51.23	40	-15.38	9.97	0.41	36.99	122	33	QP
86.26	24.35	52.34	40	-15.65	8.45	0.5	36.94	176	90	QP
140.58	27.3	54.14	43.5	-16.2	9.13	0.64	36.61	112	193	QP
192.96	30.07	54.34	43.5	-13.43	11.34	0.72	36.33	127	149	QP
317.12	36.23	57.2	46	-9.77	14.38	0.94	36.29	173	183	QP
422.85	28.59	47.32	46	-17.41	16.63	1.11	36.47	197	97	QP

#### REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





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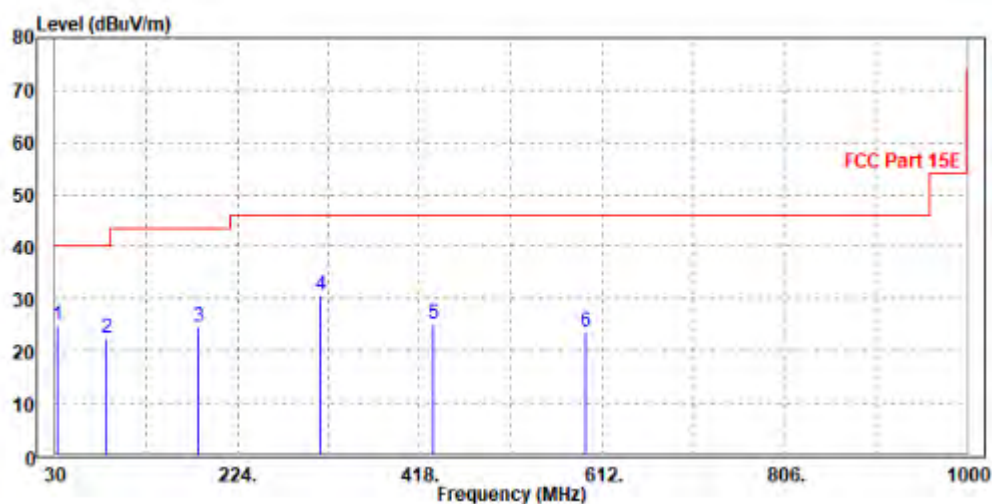
**Test Report No.: W7L-P23030004RF03**

<b>CHANNEL</b>	Channel 165	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
31.94	24.79	42.57	40	-15.21	19.33	0.32	37.43	139	38	QP
85.29	22.59	50.91	40	-17.41	8.13	0.5	36.95	187	107	QP
183.26	24.67	49.09	43.5	-18.83	11.25	0.71	36.38	132	8	QP
312.27	30.61	51.68	46	-15.39	14.28	0.93	36.28	196	170	QP
431.58	25.18	43.83	46	-20.82	16.71	1.12	36.48	113	206	QP
594.54	23.59	39.59	46	-22.41	19.49	1.35	36.84	168	95	QP

**REMARKS:**

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





Test Report No.: W7L-P23030004RF03

# ABOVE 1GHz WORST-CASE DATA:

**Note:** For higher frequency, the emission is too low to be detected.

**Band 1**

**802.11a**

<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	61.3	62.37	74	-12.7	34.52	9.92	45.51	200	325	Peak
5150	49.63	50.7	54	-4.37	34.52	9.92	45.51	200	325	Average
5180	108.04	109.1	/	/	34.54	9.91	45.51	200	325	Peak
5180	100.48	101.54	/	/	34.54	9.91	45.51	200	325	Average
5350	56.26	57.24	74	-17.74	34.68	9.85	45.51	200	325	Peak
5350	48.02	49	54	-5.98	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	58.07	59.06	74	-15.93	34.6	9.92	45.51	100	145	Peak
5150	47.95	48.94	54	-6.05	34.6	9.92	45.51	100	145	Average
5180	101.37	102.37	/	/	34.6	9.91	45.51	100	145	Peak
5180	93.32	94.32	/	/	34.6	9.91	45.51	100	145	Average
5350	56.69	57.75	74	-17.31	34.6	9.85	45.51	100	145	Peak
5350	47.67	48.73	54	-6.33	34.6	9.85	45.51	100	145	Average

## REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
- 5180MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 40	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.53	57.6	74	-17.47	34.52	9.92	45.51	200	325	Peak
5150	48.36	49.43	54	-5.64	34.52	9.92	45.51	200	325	Average
5200	108.31	109.36	/	/	34.56	9.9	45.51	200	325	Peak
5200	100.55	101.6	/	/	34.56	9.9	45.51	200	325	Average
5350	55.93	56.91	74	-18.07	34.68	9.85	45.51	200	325	Peak
5350	47.86	48.84	54	-6.14	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.11	56.1	74	-18.89	34.6	9.92	45.51	100	145	Peak
5150	47.98	48.97	54	-6.02	34.6	9.92	45.51	100	145	Average
5200	101.06	102.07	/	/	34.6	9.9	45.51	100	145	Peak
5200	93.25	94.26	/	/	34.6	9.9	45.51	100	145	Average
5350	55.92	56.98	74	-18.08	34.6	9.85	45.51	100	145	Peak
5350	47.88	48.94	54	-6.12	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 48	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.94	56.01	74	-19.06	34.52	9.92	45.51	200	325	Peak
5150	48.34	49.41	54	-5.66	34.52	9.92	45.51	200	325	Average
5240	107.15	108.18	/	/	34.59	9.89	45.51	200	325	Peak
5240	99.31	100.34	/	/	34.59	9.89	45.51	200	325	Average
5350	55.5	56.48	74	-18.5	34.68	9.85	45.51	200	325	Peak
5350	48.45	49.43	54	-5.55	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.46	56.45	74	-18.54	34.6	9.92	45.51	100	145	Peak
5150	48.11	49.1	54	-5.89	34.6	9.92	45.51	100	145	Average
5240	100.55	101.57	/	/	34.6	9.89	45.51	100	145	Peak
5240	93.06	94.08	/	/	34.6	9.89	45.51	100	145	Average
5350	55.85	56.91	74	-18.15	34.6	9.85	45.51	100	145	Peak
5350	47.51	48.57	54	-6.49	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



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**Test Report No.: W7L-P23030004RF03**

**802.11n (20MHz)**

<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	59.43	60.5	74	-14.57	34.52	9.92	45.51	200	325	Peak
5150	49.29	50.36	54	-4.71	34.52	9.92	45.51	200	325	Average
5180	107.6	108.66	/	/	34.54	9.91	45.51	200	325	Peak
5180	99.57	100.63	/	/	34.54	9.91	45.51	200	325	Average
5350	56.1	57.08	74	-17.9	34.68	9.85	45.51	200	325	Peak
5350	48.31	49.29	54	-5.69	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.49	56.48	74	-18.51	34.6	9.92	45.51	100	145	Peak
5150	47.74	48.73	54	-6.26	34.6	9.92	45.51	100	145	Average
5180	100.27	101.27	/	/	34.6	9.91	45.51	100	145	Peak
5180	92.15	93.15	/	/	34.6	9.91	45.51	100	145	Average
5350	56.08	57.14	74	-17.92	34.6	9.85	45.51	100	145	Peak
5350	47.49	48.55	54	-6.51	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 40	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	58.24	59.31	74	-15.76	34.52	9.92	45.51	200	325	Peak
5150	48.21	49.28	54	-5.79	34.52	9.92	45.51	200	325	Average
5200	107.22	108.27	/	/	34.56	9.9	45.51	200	325	Peak
5200	99.1	100.15	/	/	34.56	9.9	45.51	200	325	Average
5350	56.5	57.48	74	-17.5	34.68	9.85	45.51	200	325	Peak
5350	48.03	49.01	54	-5.97	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57	57.99	74	-17	34.6	9.92	45.51	100	145	Peak
5150	47.55	48.54	54	-6.45	34.6	9.92	45.51	100	145	Average
5200	99.84	100.85	/	/	34.6	9.9	45.51	100	145	Peak
5200	91.96	92.97	/	/	34.6	9.9	45.51	100	145	Average
5350	56.62	57.68	74	-17.38	34.6	9.85	45.51	100	145	Peak
5350	47.91	48.97	54	-6.09	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 48	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.54	56.61	74	-18.46	34.52	9.92	45.51	200	325	Peak
5150	47.99	49.06	54	-6.01	34.52	9.92	45.51	200	325	Average
5240	106.28	107.31	/	/	34.59	9.89	45.51	200	325	Peak
5240	98.47	99.5	/	/	34.59	9.89	45.51	200	325	Average
5350	56.63	57.61	74	-17.37	34.68	9.85	45.51	200	325	Peak
5350	47.57	48.55	54	-6.43	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.48	56.47	74	-18.52	34.6	9.92	45.51	100	150	Peak
5150	48.15	49.14	54	-5.85	34.6	9.92	45.51	100	150	Average
5240	100.19	101.21	/	/	34.6	9.89	45.51	100	150	Peak
5240	92.2	93.22	/	/	34.6	9.89	45.51	100	150	Average
5350	55.83	56.89	74	-18.17	34.6	9.85	45.51	100	150	Peak
5350	47.49	48.55	54	-6.51	34.6	9.85	45.51	100	150	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



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**Test Report No.: W7L-P23030004RF03**

**802.11n (40MHz)**

<b>CHANNEL</b>	TX Channel 38	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	59.06	60.13	74	-14.94	34.52	9.92	45.51	200	325	Peak
5150	49.84	50.91	54	-4.16	34.52	9.92	45.51	200	325	Average
5190	103.47	104.52	/	/	34.55	9.91	45.51	200	325	Peak
5190	95.44	96.49	/	/	34.55	9.91	45.51	200	325	Average
5350	56.19	57.17	74	-17.81	34.68	9.85	45.51	200	325	Peak
5350	47.89	48.87	54	-6.11	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.64	57.63	74	-17.36	34.6	9.92	45.51	100	145	Peak
5150	47.84	48.83	54	-6.16	34.6	9.92	45.51	100	145	Average
5190	95.92	96.92	/	/	34.6	9.91	45.51	100	145	Peak
5190	87.52	88.52	/	/	34.6	9.91	45.51	100	145	Average
5350	56.23	57.29	74	-17.77	34.6	9.85	45.51	100	145	Peak
5350	47.98	49.04	54	-6.02	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 46	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.61	58.68	74	-16.39	34.52	9.92	45.51	200	325	Peak
5150	47.94	49.01	54	-6.06	34.52	9.92	45.51	200	325	Average
5230	102.63	103.67	/	/	34.58	9.89	45.51	200	325	Peak
5230	94.97	96.01	/	/	34.58	9.89	45.51	200	325	Average
5350	55.48	56.46	74	-18.52	34.68	9.85	45.51	200	325	Peak
5350	48.42	49.4	54	-5.58	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.45	56.44	74	-18.55	34.6	9.92	45.51	100	145	Peak
5150	47.77	48.76	54	-6.23	34.6	9.92	45.51	100	145	Average
5230	96.32	97.34	/	/	34.6	9.89	45.51	100	145	Peak
5230	88.38	89.4	/	/	34.6	9.89	45.51	100	145	Average
5350	55.72	56.78	74	-18.28	34.6	9.85	45.51	100	145	Peak
5350	47.41	48.47	54	-6.59	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.



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**Test Report No.: W7L-P23030004RF03**

**802.11ac (20MHz)**

<b>CHANNEL</b>	TX Channel 36	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.94	59.01	74	-16.06	34.52	9.92	45.51	200	325	Peak
5150	49.59	50.66	54	-4.41	34.52	9.92	45.51	200	325	Average
5180	107.14	108.2	/	/	34.54	9.91	45.51	200	325	Peak
5180	99.46	100.52	/	/	34.54	9.91	45.51	200	325	Average
5350	56.67	57.65	74	-17.33	34.68	9.85	45.51	200	325	Peak
5350	47.78	48.76	54	-6.22	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.09	58.08	74	-16.91	34.6	9.92	45.51	100	145	Peak
5150	48.01	49	54	-5.99	34.6	9.92	45.51	100	145	Average
5180	100.58	101.58	/	/	34.6	9.91	45.51	100	145	Peak
5180	92.34	93.34	/	/	34.6	9.91	45.51	100	145	Average
5350	55.94	57	74	-18.06	34.6	9.85	45.51	100	145	Peak
5350	48.5	49.56	54	-5.5	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 40	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	59.36	60.43	74	-14.64	34.52	9.92	45.51	200	325	Peak
5150	48.55	49.62	54	-5.45	34.52	9.92	45.51	200	325	Average
5200	107.05	108.1	/	/	34.56	9.9	45.51	200	325	Peak
5200	99.39	100.44	/	/	34.56	9.9	45.51	200	325	Average
5350	55.92	56.9	74	-18.08	34.68	9.85	45.51	200	325	Peak
5350	47.76	48.74	54	-6.24	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.85	56.84	74	-18.15	34.6	9.92	45.51	100	145	Peak
5150	47.96	48.95	54	-6.04	34.6	9.92	45.51	100	145	Average
5200	100.71	101.72	/	/	34.6	9.9	45.51	100	145	Peak
5200	92.83	93.84	/	/	34.6	9.9	45.51	100	145	Average
5350	57.63	58.69	74	-16.37	34.6	9.85	45.51	100	145	Peak
5350	47.96	49.02	54	-6.04	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5200MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 48	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.37	58.44	74	-16.63	34.52	9.92	45.51	200	325	Peak
5150	47.88	48.95	54	-6.12	34.52	9.92	45.51	200	325	Average
5240	106.92	107.95	/	/	34.59	9.89	45.51	200	325	Peak
5240	98.5	99.53	/	/	34.59	9.89	45.51	200	325	Average
5350	55.88	56.86	74	-18.12	34.68	9.85	45.51	200	325	Peak
5350	48.16	49.14	54	-5.84	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.31	55.3	74	-19.69	34.6	9.92	45.51	100	145	Peak
5150	48.03	49.02	54	-5.97	34.6	9.92	45.51	100	145	Average
5240	100.36	101.38	/	/	34.6	9.89	45.51	100	145	Peak
5240	92.54	93.56	/	/	34.6	9.89	45.51	100	145	Average
5350	54.61	55.67	74	-19.39	34.6	9.85	45.51	100	145	Peak
5350	47.05	48.11	54	-6.95	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.



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**Test Report No.: W7L-P23030004RF03**

**802.11ac (40MHz)**

<b>CHANNEL</b>	TX Channel 38	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	59.17	60.24	74	-14.83	34.52	9.92	45.51	200	325	Peak
5150	50.29	51.36	54	-3.71	34.52	9.92	45.51	200	325	Average
5190	102.85	103.9	/	/	34.55	9.91	45.51	200	325	Peak
5190	95.84	96.89	/	/	34.55	9.91	45.51	200	325	Average
5350	55.81	56.79	74	-18.19	34.68	9.85	45.51	200	325	Peak
5350	48.68	49.66	54	-5.32	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.69	58.68	74	-16.31	34.6	9.92	45.51	100	145	Peak
5150	49.18	50.17	54	-4.82	34.6	9.92	45.51	100	145	Average
5190	96.37	97.37	/	/	34.6	9.91	45.51	100	145	Peak
5190	88.35	89.35	/	/	34.6	9.91	45.51	100	145	Average
5350	56.55	57.61	74	-17.45	34.6	9.85	45.51	100	145	Peak
5350	47.59	48.65	54	-6.41	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 46	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.18	57.25	74	-17.82	34.52	9.92	45.51	200	325	Peak
5150	48.86	49.93	54	-5.14	34.52	9.92	45.51	200	325	Average
5230	103.73	104.77	/	/	34.58	9.89	45.51	200	325	Peak
5230	95.18	96.22	/	/	34.58	9.89	45.51	200	325	Average
5350	57.56	58.54	74	-16.44	34.68	9.85	45.51	200	325	Peak
5350	47.87	48.85	54	-6.13	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.46	57.45	74	-17.54	34.6	9.92	45.51	100	145	Peak
5150	47.62	48.61	54	-6.38	34.6	9.92	45.51	100	145	Average
5230	96.29	97.31	/	/	34.6	9.89	45.51	100	145	Peak
5230	88.56	89.58	/	/	34.6	9.89	45.51	100	145	Average
5350	55.51	56.57	74	-18.49	34.6	9.85	45.51	100	145	Peak
5350	46.96	48.02	54	-7.04	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.



Test Report No.: W7L-P23030004RF03

802.11ac (80MHz)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	59.78	60.85	74	-14.22	34.52	9.92	45.51	200	325	Peak
5150	50.6	51.67	54	-3.4	34.52	9.92	45.51	200	325	Average
5210	99.51	100.55	/	/	34.57	9.9	45.51	200	325	Peak
5210	90.5	91.54	/	/	34.57	9.9	45.51	200	325	Average
5350	55.53	56.51	74	-18.47	34.68	9.85	45.51	200	325	Peak
5350	48.55	49.53	54	-5.45	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.87	56.86	74	-18.13	34.6	9.92	45.51	100	145	Peak
5150	48.54	49.53	54	-5.46	34.6	9.92	45.51	100	145	Average
5210	91.55	92.56	/	/	34.6	9.9	45.51	100	145	Peak
5210	84.65	85.66	/	/	34.6	9.9	45.51	100	145	Average
5350	56.3	57.36	74	-17.7	34.6	9.85	45.51	100	145	Peak
5350	47.51	48.57	54	-6.49	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.



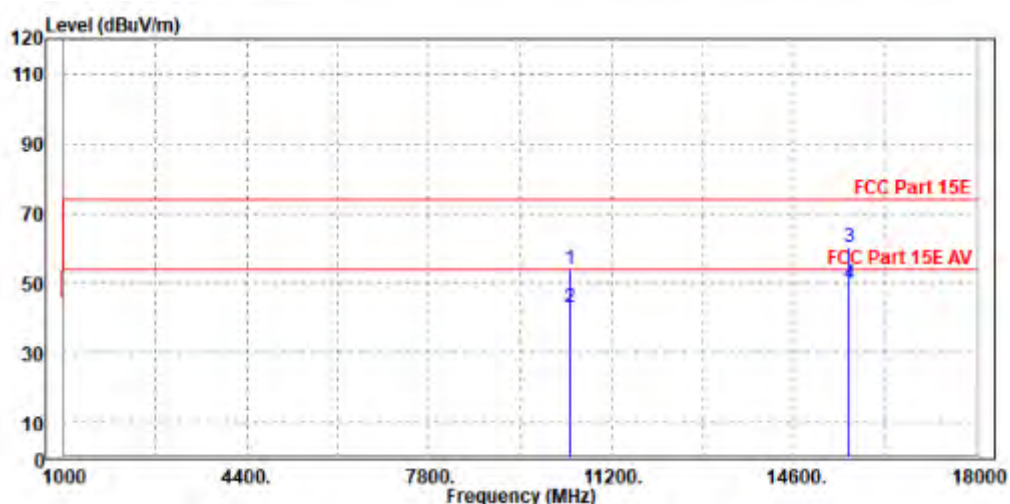
802.11ac (80MHz)

Worst case harmonic:

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

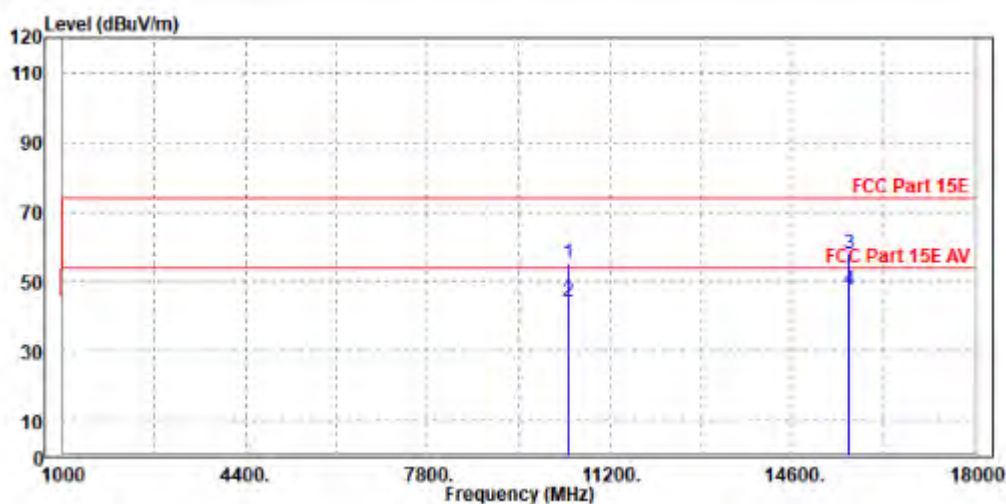
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read	Limit	Over			
	MHz	dBuV/m	Level	Line	Limit	Factor	Remark	Pol/Phase
			dBuV	dBuV/m	dB	dB/m		
1	10418.000	53.69	46.79	74.00	-20.31	6.90	Peak	Horizontal
2	10418.000	43.03	36.13	54.00	-10.97	6.90	Average	Horizontal
3	PK15630.000	60.29	47.19	74.00	-13.71	13.10	Peak	Horizontal
4	PP15630.000	49.74	36.64	54.00	-4.26	13.10	Average	Horizontal



**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10420.000	55.08	46.96	74.00	-18.92	8.12	Peak	Vertical
2	10420.000	44.09	35.97	54.00	-9.91	8.12	Average	Vertical
3	PK15637.000	57.81	45.77	74.00	-16.19	12.04	Peak	Vertical
4	PP15637.000	47.26	35.22	54.00	-6.74	12.04	Average	Vertical



**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



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**Test Report No.: W7L-P23030004RF03**

**Band 2**

**802.11a**

<b>CHANNEL</b>	TX Channel 52	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.25	56.32	74	-18.75	34.52	9.92	45.51	200	325	Peak
5150	47.77	48.84	54	-6.23	34.52	9.92	45.51	200	325	Average
5260	107.32	108.34	/	/	34.61	9.88	45.51	200	325	Peak
5260	99.33	100.35	/	/	34.61	9.88	45.51	200	325	Average
5350	55.05	56.03	74	-18.95	34.68	9.85	45.51	200	325	Peak
5350	47.89	48.87	54	-6.11	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.09	58.08	74	-16.91	34.6	9.92	45.51	100	145	Peak
5150	47.32	48.31	54	-6.68	34.6	9.92	45.51	100	145	Average
5260	102.95	103.98	/	/	34.6	9.88	45.51	100	145	Peak
5260	93.46	94.49	/	/	34.6	9.88	45.51	100	145	Average
5350	56.77	57.83	74	-17.23	34.6	9.85	45.51	100	145	Peak
5350	46.97	48.03	54	-7.03	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 60	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	58.68	59.75	74	-15.32	34.52	9.92	45.51	200	325	Peak
5150	47.08	48.15	54	-6.92	34.52	9.92	45.51	200	325	Average
5300	106.57	107.57	/	/	34.64	9.87	45.51	200	325	Peak
5300	99.55	100.55	/	/	34.64	9.87	45.51	200	325	Average
5350	55.39	56.37	74	-18.61	34.68	9.85	45.51	200	325	Peak
5350	48.01	48.99	54	-5.99	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.96	56.95	74	-18.04	34.6	9.92	45.51	100	145	Peak
5150	48.66	49.65	54	-5.34	34.6	9.92	45.51	100	145	Average
5300	99.66	100.7	/	/	34.6	9.87	45.51	100	145	Peak
5300	82.61	83.65	/	/	34.6	9.87	45.51	100	145	Average
5350	56.19	57.25	74	-17.81	34.6	9.85	45.51	100	145	Peak
5350	48.19	49.25	54	-5.81	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 64	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.04	57.11	74	-17.96	34.52	9.92	45.51	200	325	Peak
5150	47.55	48.62	54	-6.45	34.52	9.92	45.51	200	325	Average
5320	106.02	107.01	/	/	34.66	9.86	45.51	200	325	Peak
5320	98.06	99.05	/	/	34.66	9.86	45.51	200	325	Average
5350	60.38	61.36	74	-13.62	34.68	9.85	45.51	200	325	Peak
5350	48.86	49.84	54	-5.14	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.31	56.3	74	-18.69	34.6	9.92	45.51	100	145	Peak
5150	47.66	48.65	54	-6.34	34.6	9.92	45.51	100	145	Average
5320	101.05	102.1	/	/	34.6	9.86	45.51	100	145	Peak
5320	92.77	93.82	/	/	34.6	9.86	45.51	100	145	Average
5350	55.8	56.86	74	-18.2	34.6	9.85	45.51	100	145	Peak
5350	47.72	48.78	54	-6.28	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



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**Test Report No.: W7L-P23030004RF03**

**802.11n (20MHz)**

<b>CHANNEL</b>	TX Channel 52	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.16	57.23	74	-17.84	34.52	9.92	45.51	200	325	Peak
5150	47.45	48.52	54	-6.55	34.52	9.92	45.51	200	325	Average
5260	105.78	106.8	/	/	34.61	9.88	45.51	200	325	Peak
5260	98.84	99.86	/	/	34.61	9.88	45.51	200	325	Average
5350	55.83	56.81	74	-18.17	34.68	9.85	45.51	200	325	Peak
5350	48.11	49.09	54	-5.89	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.72	56.71	74	-18.28	34.6	9.92	45.51	100	145	Peak
5150	47.55	48.54	54	-6.45	34.6	9.92	45.51	100	145	Average
5260	100.59	101.62	/	/	34.6	9.88	45.51	100	145	Peak
5260	93.06	94.09	/	/	34.6	9.88	45.51	100	145	Average
5350	56.01	57.07	74	-17.99	34.6	9.85	45.51	100	145	Peak
5350	48.43	49.49	54	-5.57	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 60	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.41	56.48	74	-18.59	34.52	9.92	45.51	200	325	Peak
5150	47.2	48.27	54	-6.8	34.52	9.92	45.51	200	325	Average
5300	106.28	107.28	/	/	34.64	9.87	45.51	200	325	Peak
5300	98.5	99.5	/	/	34.64	9.87	45.51	200	325	Average
5350	55.54	56.52	74	-18.46	34.68	9.85	45.51	200	325	Peak
5350	48.23	49.21	54	-5.77	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.87	55.86	74	-19.13	34.6	9.92	45.51	100	145	Peak
5150	47.84	48.83	54	-6.16	34.6	9.92	45.51	100	145	Average
5300	99.81	100.85	/	/	34.6	9.87	45.51	100	145	Peak
5300	91.6	92.64	/	/	34.6	9.87	45.51	100	145	Average
5350	55.52	56.58	74	-18.48	34.6	9.85	45.51	100	145	Peak
5350	47.79	48.85	54	-6.21	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 64	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.86	57.93	74	-17.14	34.52	9.92	45.51	200	325	Peak
5150	47.91	48.98	54	-6.09	34.52	9.92	45.51	200	325	Average
5320	105.11	106.1	/	/	34.66	9.86	45.51	200	325	Peak
5320	98.02	99.01	/	/	34.66	9.86	45.51	200	325	Average
5350	60.21	61.19	74	-13.79	34.68	9.85	45.51	200	325	Peak
5350	48.69	49.67	54	-5.31	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.52	56.51	74	-18.48	34.6	9.92	45.51	100	145	Peak
5150	48.19	49.18	54	-5.81	34.6	9.92	45.51	100	145	Average
5320	99.75	100.8	/	/	34.6	9.86	45.51	100	145	Peak
5320	91.78	92.83	/	/	34.6	9.86	45.51	100	145	Average
5350	58.04	59.1	74	-15.96	34.6	9.85	45.51	100	145	Peak
5350	48.15	49.21	54	-5.85	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



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**Test Report No.: W7L-P23030004RF03**

**802.11n (40MHz)**

<b>CHANNEL</b>	TX Channel 54	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.14	57.21	74	-17.86	34.52	9.92	45.51	200	325	Peak
5150	47.73	48.8	54	-6.27	34.52	9.92	45.51	200	325	Average
5270	103.14	104.15	/	/	34.62	9.88	45.51	200	325	Peak
5270	95.13	96.14	/	/	34.62	9.88	45.51	200	325	Average
5350	59.43	60.41	74	-14.57	34.68	9.85	45.51	200	325	Peak
5350	48.26	49.24	54	-5.74	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.37	57.36	74	-17.63	34.6	9.92	45.51	100	145	Peak
5150	47.47	48.46	54	-6.53	34.6	9.92	45.51	100	145	Average
5270	95.78	96.81	/	/	34.6	9.88	45.51	100	145	Peak
5270	88.37	89.4	/	/	34.6	9.88	45.51	100	145	Average
5350	56.11	57.17	74	-17.89	34.6	9.85	45.51	100	145	Peak
5350	48.21	49.27	54	-5.79	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 62	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.82	56.89	74	-18.18	34.52	9.92	45.51	200	325	Peak
5150	47.39	48.46	54	-6.61	34.52	9.92	45.51	200	325	Average
5310	100.95	101.95	/	/	34.65	9.86	45.51	200	325	Peak
5310	94.18	95.18	/	/	34.65	9.86	45.51	200	325	Average
5350	60.14	61.12	74	-13.86	34.68	9.85	45.51	200	325	Peak
5350	49.35	50.33	54	-4.65	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.74	57.73	74	-17.26	34.6	9.92	45.51	100	145	Peak
5150	47.35	48.34	54	-6.65	34.6	9.92	45.51	100	145	Average
5310	96.08	97.13	/	/	34.6	9.86	45.51	100	145	Peak
5310	88.31	89.36	/	/	34.6	9.86	45.51	100	145	Average
5350	56.2	57.26	74	-17.8	34.6	9.85	45.51	100	145	Peak
5350	47.61	48.67	54	-6.39	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.



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**Test Report No.: W7L-P23030004RF03**

**802.11ac (20MHz)**

<b>CHANNEL</b>	TX Channel 52	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.93	57	74	-18.07	34.52	9.92	45.51	200	325	Peak
5150	48.11	49.18	54	-5.89	34.52	9.92	45.51	200	325	Average
5260	106.94	107.96	/	/	34.61	9.88	45.51	200	325	Peak
5260	99.06	100.08	/	/	34.61	9.88	45.51	200	325	Average
5350	57.3	58.28	74	-16.7	34.68	9.85	45.51	200	325	Peak
5350	48	48.98	54	-6	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.31	56.3	74	-18.69	34.6	9.92	45.51	100	145	Peak
5150	47.95	48.94	54	-6.05	34.6	9.92	45.51	100	145	Average
5260	99.98	101.01	/	/	34.6	9.88	45.51	100	145	Peak
5260	92.44	93.47	/	/	34.6	9.88	45.51	100	145	Average
5350	55.84	56.9	74	-18.16	34.6	9.85	45.51	100	145	Peak
5350	48.17	49.23	54	-5.83	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 60	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.23	58.3	74	-16.77	34.52	9.92	45.51	200	325	Peak
5150	48.12	49.19	54	-5.88	34.52	9.92	45.51	200	325	Average
5300	106.06	107.06	/	/	34.64	9.87	45.51	200	325	Peak
5300	98.87	99.87	/	/	34.64	9.87	45.51	200	325	Average
5350	56.34	57.32	74	-17.66	34.68	9.85	45.51	200	325	Peak
5350	48.57	49.55	54	-5.43	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.6	56.59	74	-18.4	34.6	9.92	45.51	100	145	Peak
5150	47.92	48.91	54	-6.08	34.6	9.92	45.51	100	145	Average
5300	99.15	100.19	/	/	34.6	9.87	45.51	100	145	Peak
5300	91.25	92.29	/	/	34.6	9.87	45.51	100	145	Average
5350	56.22	57.28	74	-17.78	34.6	9.85	45.51	100	145	Peak
5350	48.25	49.31	54	-5.75	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 64	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.08	58.15	74	-16.92	34.52	9.92	45.51	200	325	Peak
5150	47.64	48.71	54	-6.36	34.52	9.92	45.51	200	325	Average
5320	105.62	106.61	/	/	34.66	9.86	45.51	200	325	Peak
5320	97.78	98.77	/	/	34.66	9.86	45.51	200	325	Average
5350	57.94	58.92	74	-16.06	34.68	9.85	45.51	200	325	Peak
5350	48.83	49.81	54	-5.17	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.68	56.67	74	-18.32	34.6	9.92	45.51	100	145	Peak
5150	47.74	48.73	54	-6.26	34.6	9.92	45.51	100	145	Average
5320	100.33	101.38	/	/	34.6	9.86	45.51	100	145	Peak
5320	91.77	92.82	/	/	34.6	9.86	45.51	100	145	Average
5350	55.69	56.75	74	-18.31	34.6	9.85	45.51	100	145	Peak
5350	48.17	49.23	54	-5.83	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.



Test Report No.: W7L-P23030004RF03

# 802.11ac (40MHz)

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.74	56.81	74	-18.26	34.52	9.92	45.51	200	325	Peak
5150	47.74	48.81	54	-6.26	34.52	9.92	45.51	200	325	Average
5270	102.97	103.98	/	/	34.62	9.88	45.51	200	325	Peak
5270	94.84	95.85	/	/	34.62	9.88	45.51	200	325	Average
5350	55.57	56.55	74	-18.43	34.68	9.85	45.51	200	325	Peak
5350	47.96	48.94	54	-6.04	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.22	57.21	74	-17.78	34.6	9.92	45.51	100	145	Peak
5150	48.52	49.51	54	-5.48	34.6	9.92	45.51	100	145	Average
5270	96.3	97.33	/	/	34.6	9.88	45.51	100	145	Peak
5270	88.62	89.65	/	/	34.6	9.88	45.51	100	145	Average
5350	55.86	56.92	74	-18.14	34.6	9.85	45.51	100	145	Peak
5350	47.8	48.86	54	-6.2	34.6	9.85	45.51	100	145	Average

## REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

<b>CHANNEL</b>	TX Channel 62	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.54	56.61	74	-18.46	34.52	9.92	45.51	200	325	Peak
5150	47.71	48.78	54	-6.29	34.52	9.92	45.51	200	325	Average
5310	101.85	102.85	/	/	34.65	9.86	45.51	200	325	Peak
5310	94.28	95.28	/	/	34.65	9.86	45.51	200	325	Average
5350	60.68	61.66	74	-13.32	34.68	9.85	45.51	200	325	Peak
5350	49.14	50.12	54	-4.86	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.53	57.52	74	-17.47	34.6	9.92	45.51	100	145	Peak
5150	48.55	49.54	54	-5.45	34.6	9.92	45.51	100	145	Average
5310	95.99	97.04	/	/	34.6	9.86	45.51	100	145	Peak
5310	88.33	89.38	/	/	34.6	9.86	45.51	100	145	Average
5350	55.61	56.67	74	-18.39	34.6	9.85	45.51	100	145	Peak
5350	48.03	49.09	54	-5.97	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.



**BUREAU  
VERITAS**

**Test Report No.: W7L-P23030004RF03**

**802.11ac (80MHz)**

<b>CHANNEL</b>	TX Channel 58	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.91	56.98	74	-18.09	34.52	9.92	45.51	200	325	Peak
5150	47.88	48.95	54	-6.12	34.52	9.92	45.51	200	325	Average
5290	98.3	99.31	/	/	34.63	9.87	45.51	200	325	Peak
5290	90.39	91.4	/	/	34.63	9.87	45.51	200	325	Average
5350	56.89	57.87	74	-17.11	34.68	9.85	45.51	200	325	Peak
5350	49.28	50.26	54	-4.72	34.68	9.85	45.51	200	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.2	57.19	74	-17.8	34.6	9.92	45.51	100	145	Peak
5150	47.63	48.62	54	-6.37	34.6	9.92	45.51	100	145	Average
5290	91.47	92.51	/	/	34.6	9.87	45.51	100	145	Peak
5290	84	85.04	/	/	34.6	9.87	45.51	100	145	Average
5350	56.27	57.33	74	-17.73	34.6	9.85	45.51	100	145	Peak
5350	49.55	50.61	54	-4.45	34.6	9.85	45.51	100	145	Average

**REMARKS:**

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor  
Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.