

# Test Report

Verified code: 872972

Report No.: E20230322442901-2

Customer: Shenzhen SDMC Technology Co.,Ltd.

Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,China

Sample Name: AX3000 Dual Band WiFi6 Mesh Router

Sample Model: NM3015

Receive Sample Date: Mar.23,2023

Test Date: Mar.28,2023 ~ Jun.13,2023

Reference Document: CFR 47, FCC Parts Subpart E Unlicensed National Information Infrastructure Devices

Test Result: Pass

Prepared by: Lu Wei  
Lu Wei

Reviewed by: Wu Haoting  
Wu Haoting

Approved by: Xiao Liang  
Xiao Liang



GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2023-06-30

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**REPORT ISSUED HISTORY**

<b>Report Version</b>	<b>Report No.</b>	<b>Description</b>	<b>Compile Date</b>
1.0	E20230322442901-2	Original Issue	2023-06-13

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**1. TEST RESULT SUMMARY**

Standard	Item	Limit / Severity	Result
CFR 47, FCC Part 15 Subpart E (§15.407) & FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 & FCC KDB 662911 D01 Multiple Transmitter Output v02r01	6dB Bandwidth & 26dB Bandwidth & 99% Occupied Bandwidth	15.407(a) 15.407(e)	PASS
	AC Power Line Conducted Emissions	15.207 15.407(b)(9)	PASS
	Unwanted Emissions and Band Edge	15.205 15.209 15.407(b)	PASS
	Output Power	15.407(a)	PASS
	Peak Power Spectral Density	15.407(a)	PASS
	Frequency Stability	15.407(g)	PASS
	Antenna Requirement	15.203	PASS <sup>1)</sup>

Note: <sup>1)</sup> The EUT have two antennas. The antenna is Built-in antenna. The max gain of antenna is 3.86dBi, which accordance 15.203 is considered sufficient to comply with the provisions of this section.

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## 2. GENERAL DESCRIPTION OF EUT

### 2.1. APPLICANT

Name: Shenzhen SDMC Technology Co.,Ltd.  
Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,China

### 2.2. MANUFACTURER

Name: Shenzhen SDMC Technology Co.,Ltd.  
Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,China

### 2.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: AX3000 Dual Band WiFi6 Mesh Router  
Adding Product Name: AX3000 Dual Band WiFi Mesh Router, Router Mesh Wi-Fi 6 de doble banda AX3000  
Product Model: NM3015  
Adding Model: NM3015B  
Model difference description: The above series models are consistent with the main model in terms of schematic diagram, circuit design, circuit layout, hardware version, software version and internal structure. The difference is mainly due to the inconsistency of model name and sales area.  
FCC ID: 2AW68-NM3015  
Trade Name: SDMC, D FIBRA  
Power Supply: DC 12.0V power supplied by adapter  
Adapter Specification: Adapter 1:  
MODE:SA12BV-120100U  
INPUT:100-240V~50/60Hz 0.4A  
OUTPUT:12V  $\overline{\text{---}}$  1A 12.0W  
Adapter 2:  
MODE:F12L33-120100SPAU  
INPUT:100-240V~50/60Hz 0.3A  
OUTPUT:12.0V  $\overline{\text{---}}$  1.0A 12.0W  
Frequency Band: U-NII-1: 5180 MHz~5240 MHz  
U-NII-2A: 5260 MHz~5320 MHz  
U-NII-2C: 5500 MHz~5720 MHz  
U-NII-3: 5745 MHz~5825 MHz  
Modulation Type: OFDM, OFDMA

Antenna Specification:	Built-in antenna U-NII-1: antenna 1 with 3.86dBi gain (Max.) antenna 2 with 3.86dBi gain (Max.) U-NII-2A: antenna 1 with 3.67dBi gain (Max.) antenna 2 with 3.67dBi gain (Max.) U-NII-2C: antenna 1 with 3.67dBi gain (Max.) antenna 2 with 3.67dBi gain (Max.) U-NII-3: antenna 1 with 2.56dBi gain (Max.) antenna 2 with 2.56dBi gain (Max.)
Number Of Channel	U-NII-1: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels IEEE 802.11ac VHT80 / ax HE80: 1 Channel IEEE 802.11ac VHT160 / ax HE160: 1 Channel U-NII-2A: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels IEEE 802.11ac VHT80 / ax HE80: 1 Channel IEEE 802.11ac VHT160 / ax HE160: 1 Channel U-NII-2C: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 12 Channels IEEE 802.11n HT40 / ac VHT40 / ax HE40: 6 Channels IEEE 802.11ac VHT80 / ax HE80: 3 Channel IEEE 802.11ac VHT160 / ax HE160: 1 Channel U-NII-3: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 5 Channels IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels IEEE 802.11ac VHT80 / ax HE80: 1 Channel
Channels Spacing:	IEEE 802.11a: 20MHz IEEE 802.11n HT20: 20MHz IEEE 802.11n HT40: 40MHz IEEE 802.11ac VHT20: 20MHz IEEE 802.11ac VHT40: 40MHz IEEE 802.11ac VHT80: 80MHz IEEE 802.11ac VHT160: 160MHz IEEE 802.11ax HE20: 20MHz IEEE 802.11ax HE40: 40MHz IEEE 802.11ax HE80: 80MHz IEEE 802.11ax HE160: 160MHz



Transmit Power:

U-NII-1:

- 20.42dBm for IEEE 802.11a
- 21.37dBm for IEEE 802.11n HT20
- 19.81dBm for IEEE 802.11ac VHT20
- 20.34dBm for IEEE 802.11ax HE20
- 21.21dBm for IEEE 802.11n HT40
- 20.62dBm for IEEE 802.11ac VHT40
- 19.46dBm for IEEE 802.11ax HE40
- 20.63dBm for IEEE 802.11ac VHT80
- 20.98dBm for IEEE 802.11ax HE80
- 18.94dBm for IEEE 802.11ac VHT160
- 18.93dBm for IEEE 802.11ax HE160

U-NII-2A:

- 19.74dBm for IEEE 802.11a
- 20.93dBm for IEEE 802.11n HT20
- 19.31dBm for IEEE 802.11ac VHT20
- 20.04dBm for IEEE 802.11ax HE20
- 20.04dBm for IEEE 802.11n HT40
- 22.20dBm for IEEE 802.11ac VHT40
- 21.10dBm for IEEE 802.11ax HE40
- 21.40dBm for IEEE 802.11ac VHT80
- 21.99dBm for IEEE 802.11ax HE80
- 18.50dBm for IEEE 802.11ac VHT160
- 18.01dBm for IEEE 802.11ax HE160

U-NII-2C:

- 23.18dBm for IEEE 802.11a
- 21.92dBm for IEEE 802.11n HT20
- 22.12dBm for IEEE 802.11ac VHT20
- 22.66dBm for IEEE 802.11ax HE20
- 20.70dBm for IEEE 802.11n HT40
- 22.26dBm for IEEE 802.11ac VHT40
- 22.35dBm for IEEE 802.11ax HE40
- 21.77dBm for IEEE 802.11ac VHT80
- 22.04dBm for IEEE 802.11ax HE80
- 19.43dBm for IEEE 802.11ac VHT160
- 19.54dBm for IEEE 802.11ax HE160

U-NII-3:

- 22.60dBm for IEEE 802.11a
- 21.40dBm for IEEE 802.11n HT20
- 21.32dBm for IEEE 802.11ac VHT20
- 21.85dBm for IEEE 802.11ax HE20
- 20.19dBm for IEEE 802.11n HT40
- 22.28dBm for IEEE 802.11ac VHT40
- 22.09dBm for IEEE 802.11ax HE40
- 21.40dBm for IEEE 802.11ac VHT80
- 21.91dBm for IEEE 802.11ax HE80

Temperature Range: 0 °C ~ +40 °C

Hardware Version: V2.0

Version:

Software Version: S09.09.01.002

Version:

Sample submitting way:  Provided by customer  Sampling

Sample No: E20230322442901-0002, E20230322442901-0003

Note: The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

**2.4. TEST OPERATION MODE**

Mode No.	Description of the modes
1	5G Wi-Fi TX mode

**2.5. CHANNEL LIST**

Mode	Band	Channel	Frequency (MHz)
IEEE 802.11a / IEEE 802.11n HT20/IEEE 802.11ac VHT20/ IEEE 802.11ax HE20	U-NII-1	36	5180
		40	5200
		44	5220
		48	5240
	U-NII-2A	52	5260
		56	5280
		60	5300
		64	5320
	U-NII-2C	100	5500
		104	5520
		108	5540
		112	5560
		116	5580
		120	5600
		124	5620
		128	5640
		132	5660
		136	5680
	U-NII-3	149	5745
		153	5765
157		5785	
161		5805	
165		5825	

Mode	Band	Channel	Frequency (MHz)
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IEEE 802.11 n HT40/ IEEE 802.11 ac VHT40/ IEEE 802.11ax HE40	U-NII-1	38	5190
		46	5230
	U-NII-2A	51	5270
		62	5310
		102	5510
	U-NII-2C	110	5550
		118	5590
		126	5630
		134	5670
		142	5710
U-NII-3	151	5755	
	159	5795	

Mode	Band	Channel	Frequency (MHz)
IEEE 802.11ac VHT80/ IEEE 802.11ax HE80	U-NII-1	42	5210
	U-NII-2A	58	5290
	U-NII-2C	106	5530
		122	5610
		138	5690
	U-NII-3	155	5775

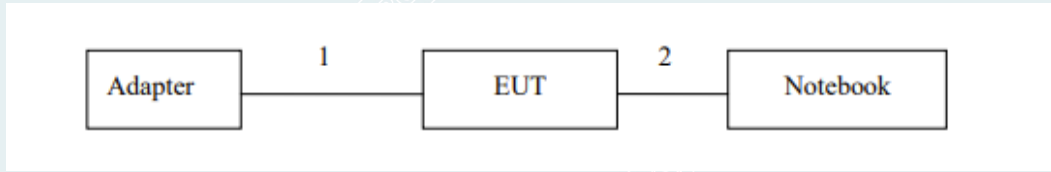
Mode	Band	Channel	Frequency (MHz)
IEEE 802.11ac VHT160/ IEEE 802.11ax HE160	U-NII-1&U-NII-2A	50	5250
	U-NII-2C	114	5570

## 2.6. LOCAL SUPPORTIVE INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Note
Notebook	DELL	Latitude3400	8RZFJW2	/

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	DC cable	1	No	0	1.2m
2	RJ45	1	No	0	1.2m

## 2.7. CONFIGURATION OF SYSTEM UNDER TEST



**Test software:**

Software version
accessMTool

----- The following blanks -----

Non Beamforming

SISO

Mode	Frequency (MHz)	Power Setting
IEEE 802.11a	5180	72
	5200	72
	5240	72
	5260	72
	5280	72
	5320	72
	5500	73
	5580	73
	5700	73
	5720	73
	5745	73
	5785	73
	5825	73

CDD

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11a	5180	68	IEEE 802.11n HT20	5180	70
	5200	68		5200	70
	5240	68		5240	70
	5260	68		5260	70
	5280	68		5280	70
	5320	68		5320	70
	5500	73		5500	65
	5580	73		5580	65
	5700	73		5700	65
	5720	73		5720	65
	5745	73		5745	65
	5785	73		5785	65
	5825	73		5825	65

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11 ac VHT20	5180	65	IEEE 802.11 ax HE20	5180	62
	5200	65		5200	62
	5240	65		5240	62
	5260	65		5260	62
	5300	65		5300	62
	5320	65		5320	62
	5500	68		5500	70
	5580	68		5580	70
	5700	68		5700	70
	5720	68		5720	70
	5745	68		5745	70
	5785	68		5785	70
	5825	68		5825	70

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT40	5190	70	IEEE 802.11ac VHT40	5190	70	IEEE 802.11ax HE40	5190	65
	5230	70		5230	70		5230	65
	5270	65		5270	70		5270	70
	5310	65		5310	70		5310	70
	5510	65		5510	70		5510	70
	5550	65		5550	70		5550	70
	5670	65		5670	70		5670	70
	5710	65		5710	70		5710	70
	5755	65		5755	70		5755	70
	5795	65		5795	70		5795	70

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT80	5210	70	IEEE 802.11ax HE80	5210	70
	5290	70		5290	70
	5530	70		5530	70
	5610	70		5610	70
	5690	70		5690	70
	5775	70		5775	70

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT160	5250	70	IEEE 802.11ax HE160	5250	70
	5570	70		5570	70

SDM

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT20	5180	70	IEEE 802.11ac VHT20	5180	65	IEEE 802.11ax HE20	5180	64
	5200	70		5200	65		5200	64
	5240	70		5240	65		5240	64
	5260	70		5260	65		5260	64
	5280	70		5300	65		5300	64
	5320	70		5320	65		5320	64
	5500	65		5500	68		5500	70
	5580	65		5580	68		5580	70
	5700	65		5700	68		5700	70
	5720	65		5720	68		5720	70
	5745	65		5745	68		5745	70
	5785	65		5785	68		5785	70
5825	65	5825	68	5825	70			

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT40	5190	70	IEEE 802.11ac VHT40	5190	70	IEEE 802.11ax HE40	5190	65
	5230	70		5230	70		5230	65
	5270	65		5270	70		5270	70
	5310	65		5310	70		5310	70
	5510	65		5510	70		5510	70
	5550	65		5550	70		5550	70
	5670	65		5670	70		5670	70
	5710	65		5710	70		5710	70
	5755	65		5755	70		5755	70
	5795	65		5795	70		5795	70

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT80	5210	70	IEEE 802.11ax HE80	5210	70
	5290	70		5290	70
	5530	70		5530	70
	5610	70		5610	70
	5690	70		5690	70
	5775	70		5775	70

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT160	5250	70	IEEE 802.11ax HE160	5250	70
	5570	70		5570	70

Beamforming

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT20	5180	68	IEEE 802.11ac VHT20	5180	63	IEEE 802.11ax HE20	5180	62
	5200	68		5200	63		5200	62
	5240	68		5240	63		5240	62
	5260	68		5260	63		5260	62
	5280	68		5300	63		5300	62
	5320	68		5320	63		5320	62
	5500	64		5500	65		5500	65
	5580	64		5580	65		5580	65
	5700	64		5700	65		5700	65
	5720	64		5720	65		5720	68
	5745	64		5745	65		5745	68
	5785	64		5785	65		5785	68
5825	64	5825	65	5825	68			

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT40	5190	68	IEEE 802.11ac VHT40	5190	70	IEEE 802.11ax HE40	5190	60
	5230	68		5230	70		5230	60
	5270	64		5270	65		5270	65
	5310	64		5310	65		5310	65
	5510	64		5510	65		5510	65
	5550	64		5550	65		5550	65
	5670	64		5670	65		5670	65
	5710	64		5710	65		5710	65
	5755	64		5755	65		5755	65
	5795	64		5795	65		5795	65

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT80	5210	65	IEEE 802.11ax HE80	5210	65
	5290	65		5290	65
	5530	65		5530	65
	5610	65		5610	65
	5690	65		5690	65
	5775	65		5775	65

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT160	5250	68	IEEE 802.11ax HE160	5250	68
	5570	68		5570	68



**2.8. DUTY CYCLE**

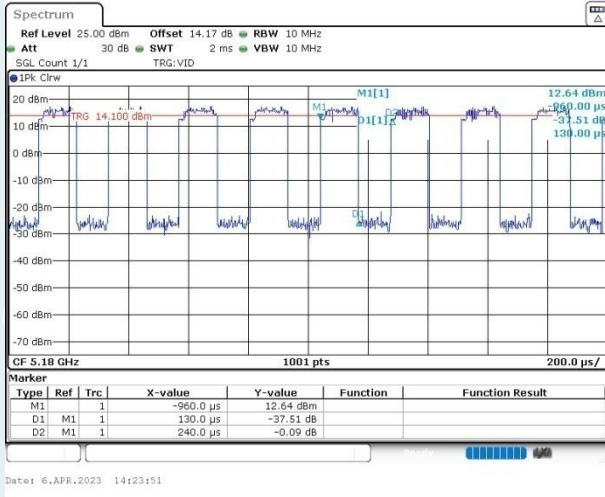
<b>EUT Name</b>	AX3000 Dual Band WiFi6 Mesh Router	<b>Model</b>	NM3015
<b>Environmental Conditions</b>	23.9°C/47%RH	<b>Test Voltage</b>	AC120V/60Hz
<b>Tested By</b>	Lu Wei	<b>Tested Date</b>	2023/04/06-2023/05/03

TestMode	Mode	ON Time(ms)	Total Time(ms)	Duty Cycle	T(s)	Duty Cycle Factor (dB)
duty cycle	802.11a	0.130	0.240	54.167%	0.00013	2.66
	802.11n HT20	0.120	0.220	54.545%	0.00012	2.63
	802.11n HT40	0.120	0.220	54.545%	0.00012	2.63
	802.11ac VHT20	0.140	0.170	82.353%	0.00014	0.84
	802.11ac VHT40	0.120	0.150	80.000%	0.00012	0.97
	802.11ac VHT80	0.120	0.150	80.000%	0.00012	0.97
	802.11ac VHT160	0.110	0.140	78.571%	0.00011	1.05
	802.11ax HE20	0.310	0.350	88.571%	0.00031	0.40
	802.11ax HE40	0.300	0.340	88.235%	0.00030	0.54
	802.11ax HE80	0.300	0.330	90.909%	0.00030	0.41
	802.11ax HE160	0.300	0.330	90.909%	0.00030	0.41

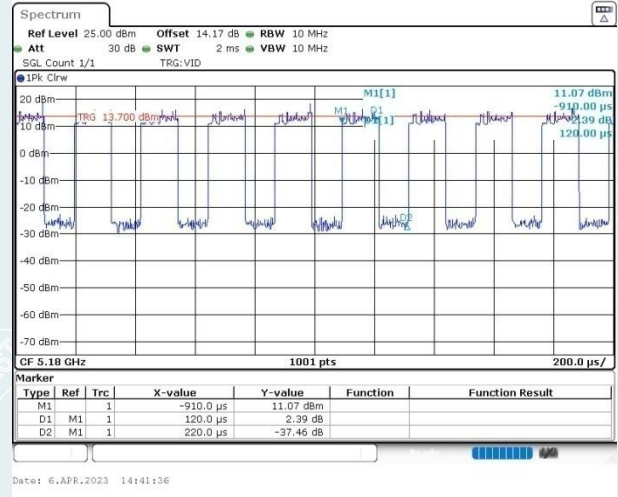
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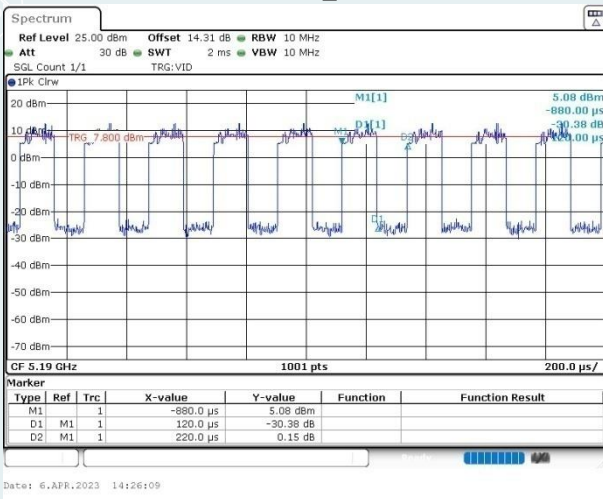
802.11a\_5180MHz



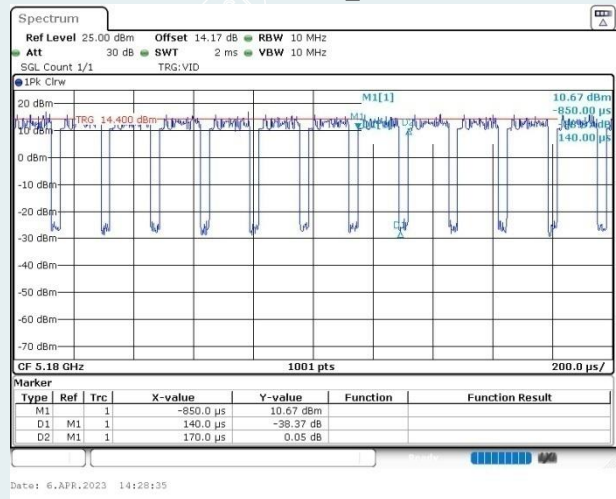
802.11n HT20\_5180MHz



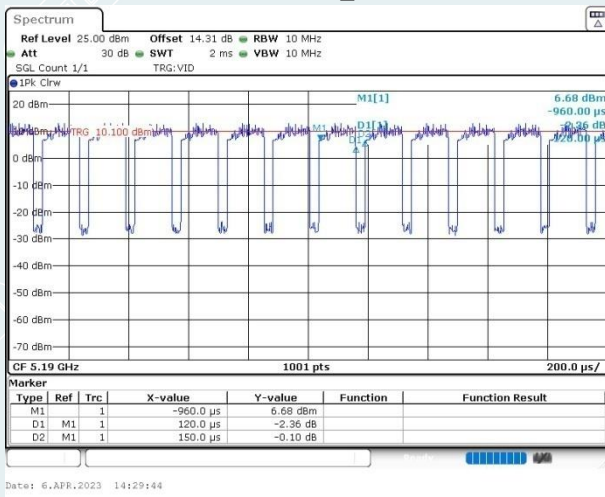
802.11n HT40\_5190MHz



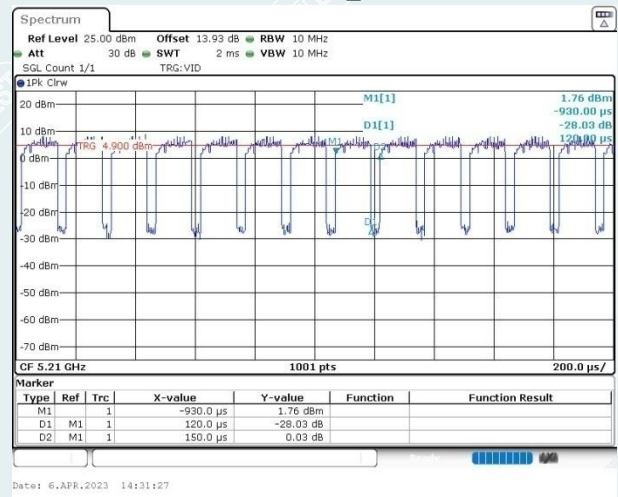
802.11ac VHT20\_5180MHz



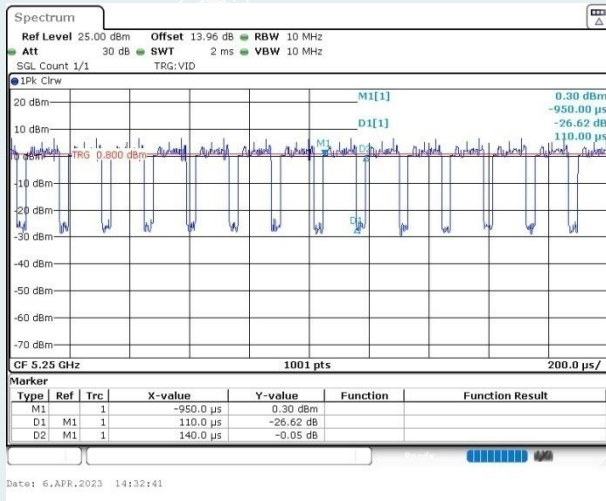
802.11ac VHT40\_5190MHz



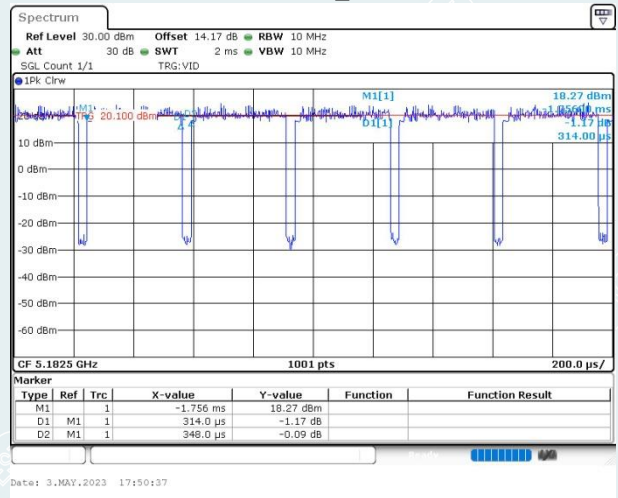
802.11ac VHT80\_5210MHz



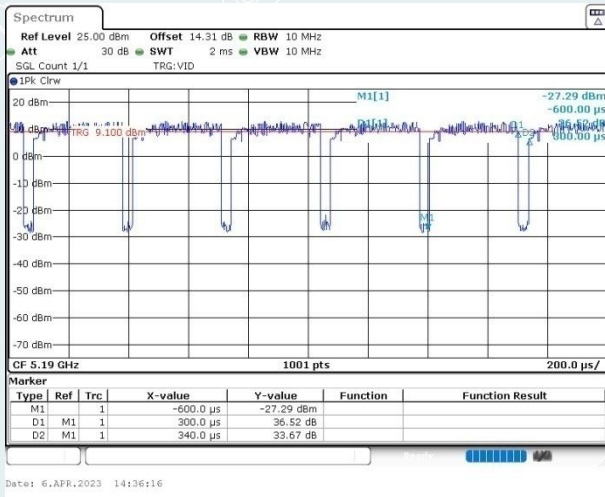
802.11ac VHT160\_5250MHz



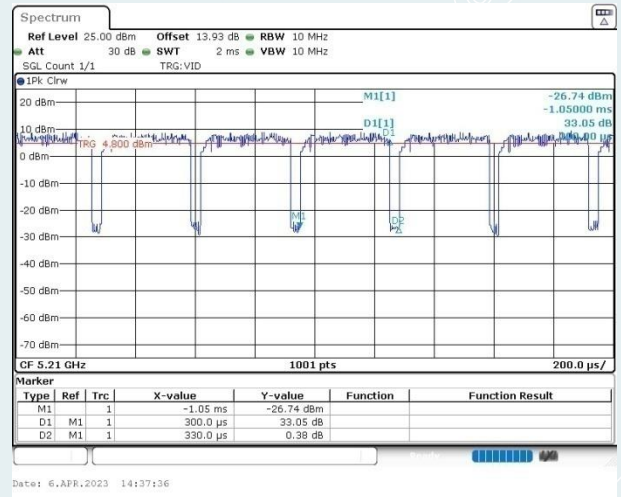
802.11ax HE20\_5180MHz



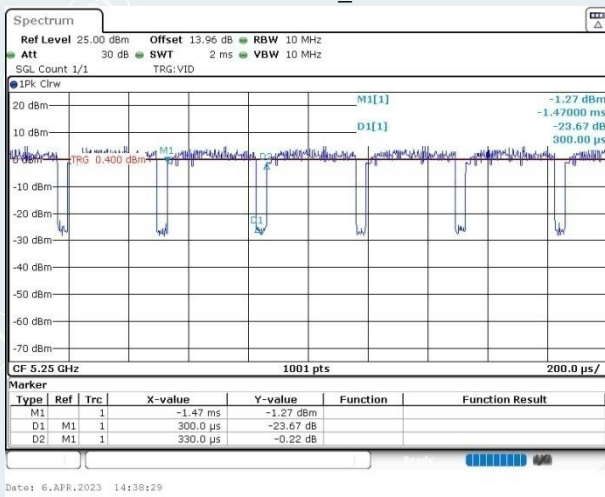
802.11ax HE40\_5190MHz



802.11ax HE80\_5210MHz



802.11ax HE160\_5250MHz



### 3. LABORATORY AND ACCREDITATIONS

#### 3.1. LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add.: No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District Shenzhen, 518110, People's Republic of China.

P.C.: 518110

Tel : 0755-61180008

Fax: 0755-61180008

#### 3.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

**USA** A2LA(Certificate #2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

**Canada** ISED (Company Number: 24897, CAB identifier:CN0069)

**USA** FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.grgtest.com>

#### 3.3. 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		Frequency	Uncertainty
Radiated Emission	Horizontal	9kHz~30MHz	4.46dB
		30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26GHz	3.65dB
		26GHz~40GHz	4.00dB
	Vertical	9kHz~30MHz	4.46dB
		30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26GHz	3.65dB
		26GHz~40GHz	4.00dB
Conduction Emission		9kHz~150kHz	2.80dB
		150kHz~10MHz	2.80dB
		10MHz~30MHz	2.20dB

Measurement	Uncertainty
RF frequency	$6.0 \times 10^{-6}$
RF power conducted	0.78 dB
Occupied channel bandwidth	0.4 dB
Unwanted emission, conducted	0.68 dB
Humidity	6 %
Temperature	2°C

This uncertainty represents an expanded uncertainty factor of  $k=2$ .

----- The following blanks -----

**4. LIST OF USED TEST EQUIPMENT AT GRGT**

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
<b>Conducted Emissions</b>				
TEST RECEIVER	R&S	ESCI	100783	2023-08-28
LISN(EUT)	R&S	ENV216	101543	2023-09-13
EZ-EMC	EZ	CCS-3A1-CE	/	/
<b>Radiated Spurious Emission &amp; Restricted bands of operation</b>				
Test S/W	EZ	CCS-2ANT	/	/
Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-56	2023-08-06
Test Receiver	R&S	ESR7	102444	2023-09-02
Preamplifier	EMEC	EM330	I00426	2024-02-06
Bi-log Antenna	TESEQ	CBL6143A	26039	2024-10-23
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2023-10-15
Test Receiver	R&S	ESR26	101758	2023-10-27
Spectrum Analyzer	R&S	FSW43	102072	2023-09-02
Board-Band	Schwarzbeck	BBHA 9170	BBHA 9170-497	2023-10-14
Amplifier	Tonscend	TAP01018048	AP20E8060075	2024-04-11
Amplifier	Tonscend	TAP184050	AP20E806071	2024-04-16
Amplifier	SHIRONG	DLNA-1G18G-G4	20200928005	2023-08-27
Test S/W	Tonscend	JS32-RE/2.5.2.4		
<b>6DB Bandwidth &amp; 26DB Bandwidth &amp; 99% Occupied bandwidth &amp; Power Spectral Density</b>				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power	TONSCEND	JS0806-2	21B8060365	2023-11-17
<b>Frequency Stability</b>				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Temperature & humidity	HOSON	HS01060SDF	201013401	2023-08-19
DC Source	Keysight	E36131A	MY59001139	2023-10-24
Automatic power	TONSCEND	JS0806-2	21B8060365	2023-11-17
<b>Output Power</b>				
Pulse power sensor	Anritsu	MA2411B	1126150	2024-02-12
Power Meter	Anritsu	NL2495A	1204003	2024-02-12

Note: The calibration interval of the above test instruments is 12 months.

## 5. CONDUCTED EMISSION MEASUREMENT

### 5.1. LIMITS

Frequency range	Limits (dB $\mu$ V)	
	Quasi-peak	Average
150kHz ~ 0.5MHz	66~56	56~46
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

### TEST PROCEDURES

#### Procedure of Preliminary Test

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

– Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

1) Place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

– All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

– The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

– Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

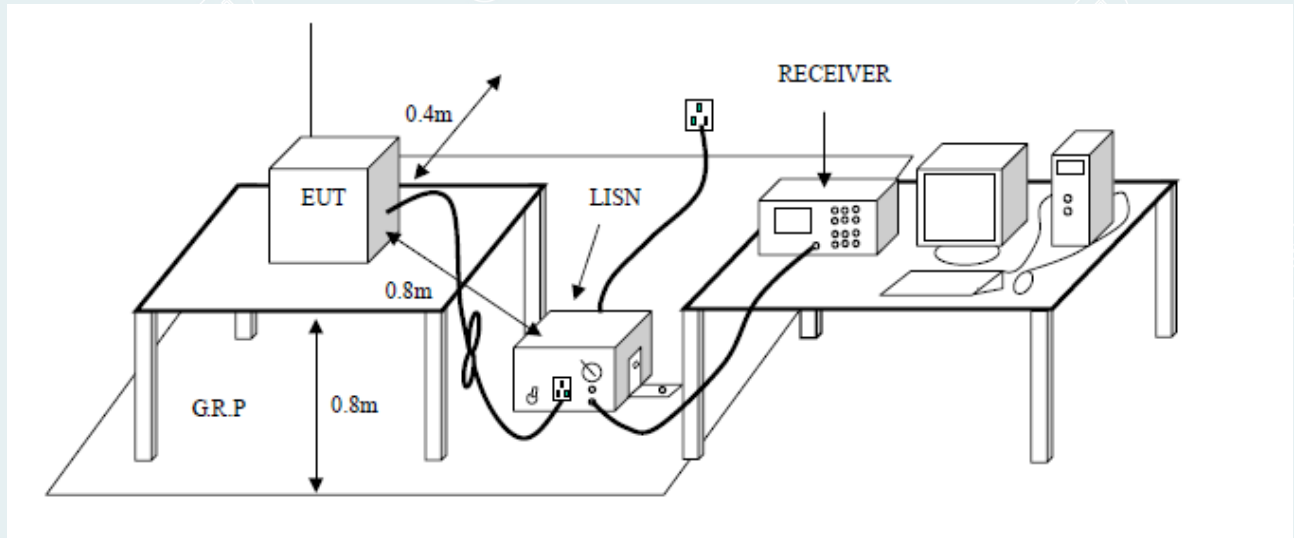
– I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

#### Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

**5.2. TEST SETUP**



**5.3. DATA SAMPLE**

Frequency (MHz)	QuasiPeak Reading (dBUV)	Average Reading (dBUV)	Correction Factor (dB)	QuasiPeak Result (dBUV)	Average Result (dBUV)	QuasiPeak Limit (dBUV)	Average Limit (dBUV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

- Factor = Insertion loss of LISN + Cable Loss
- Result = Quasi-peak Reading/ Average Reading + Factor
- Limit = Limit stated in standard
- Margin = Result (dBUV) – Limit (dBUV)

----- The following blanks -----

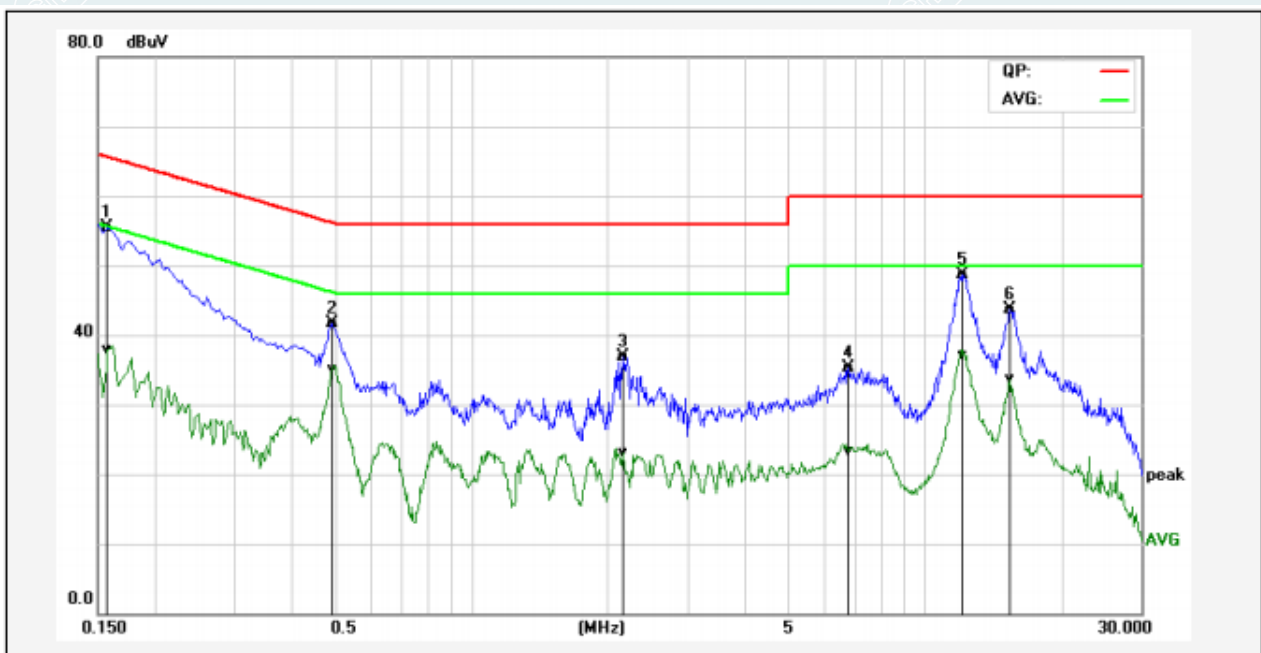


### 5.4. TEST RESULTS

All models were pretested and only the worst modes and channels were recorded in this report. (IEEE 802.11n HT20 5180MHz:CDD)

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	22.0°C/55%RH	Test Mode	Mode 1
Power supply	AC120V/60Hz(Adapter1)	Test Engineer	Chen Zexin
Test Date	2023/04/04	Sample No.	E20230322442901-0001

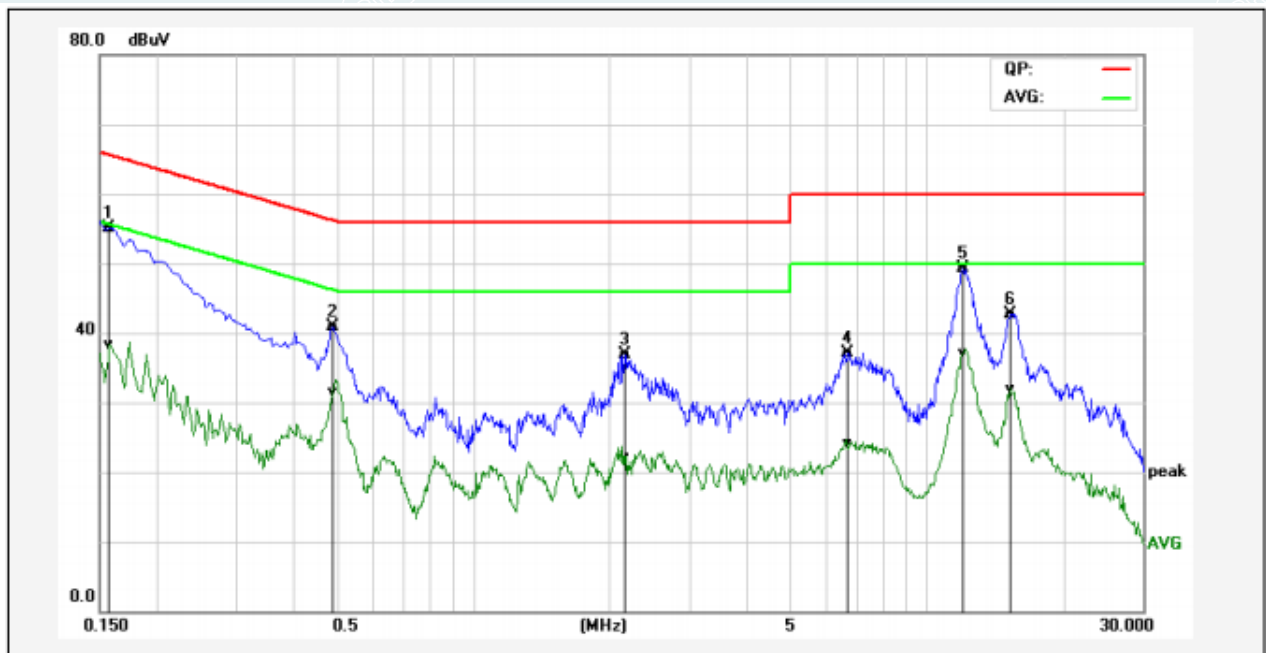
(The chart below shows the highest readings taken from the final data.)



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1580	45.81	28.22	9.61	55.42	37.83	65.56	55.57	-10.14	-17.74	Pass
2	0.4940	32.11	25.54	9.61	41.72	35.15	56.10	46.10	-14.38	-10.95	Pass
3	2.1619	27.31	13.44	9.65	36.96	23.09	56.00	46.00	-19.04	-22.91	Pass
4	6.7780	25.55	13.64	9.74	35.29	23.38	60.00	50.00	-24.71	-26.62	Pass
5	12.0740	38.85	27.41	9.78	48.63	37.19	60.00	50.00	-11.37	-12.81	Pass
6	15.4020	33.86	23.80	9.81	43.67	33.61	60.00	50.00	-16.33	-16.39	Pass

Note: L = Live Line

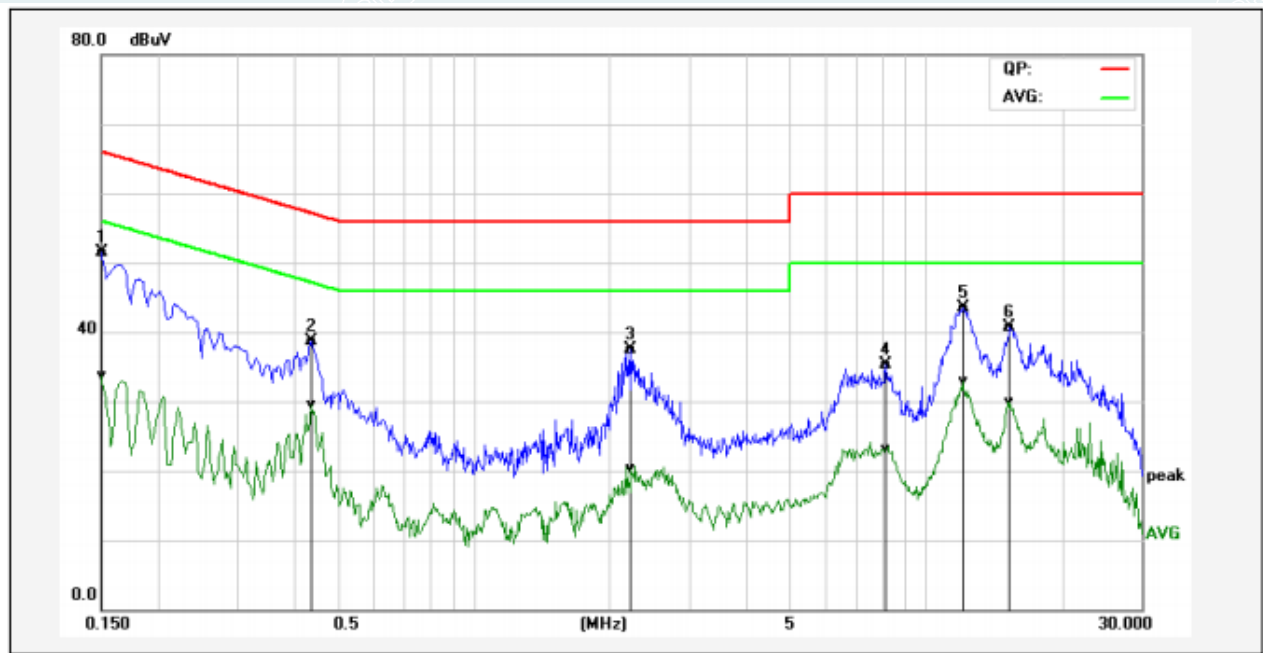
EUT Name	AX3000 Dual Band WiFi Mesh Router	Model	NM3015
Environmental Conditions	22.0°C/55%RH	Test Mode	Mode 1
Power supply	AC120V/60Hz(Adapter1)	Test Engineer	Chen Zexin
Test Date	2023/04/04	Sample No.	E20230322442901-0001



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1580	45.48	28.75	9.60	55.08	38.35	65.56	55.57	-10.48	-17.22	Pass
2	0.4900	31.27	21.87	9.60	40.87	31.47	56.17	46.17	-15.30	-14.70	Pass
3	2.1660	27.22	12.56	9.64	36.86	22.20	56.00	46.00	-19.14	-23.80	Pass
4	6.7100	27.42	14.42	9.75	37.17	24.17	60.00	50.00	-22.83	-25.83	Pass
5	12.0500	39.49	27.19	9.82	49.31	37.01	60.00	50.00	-10.69	-12.99	Pass
6	15.3180	32.83	22.03	9.87	42.70	31.90	60.00	50.00	-17.30	-18.10	Pass

Note: N = Neutral Line.

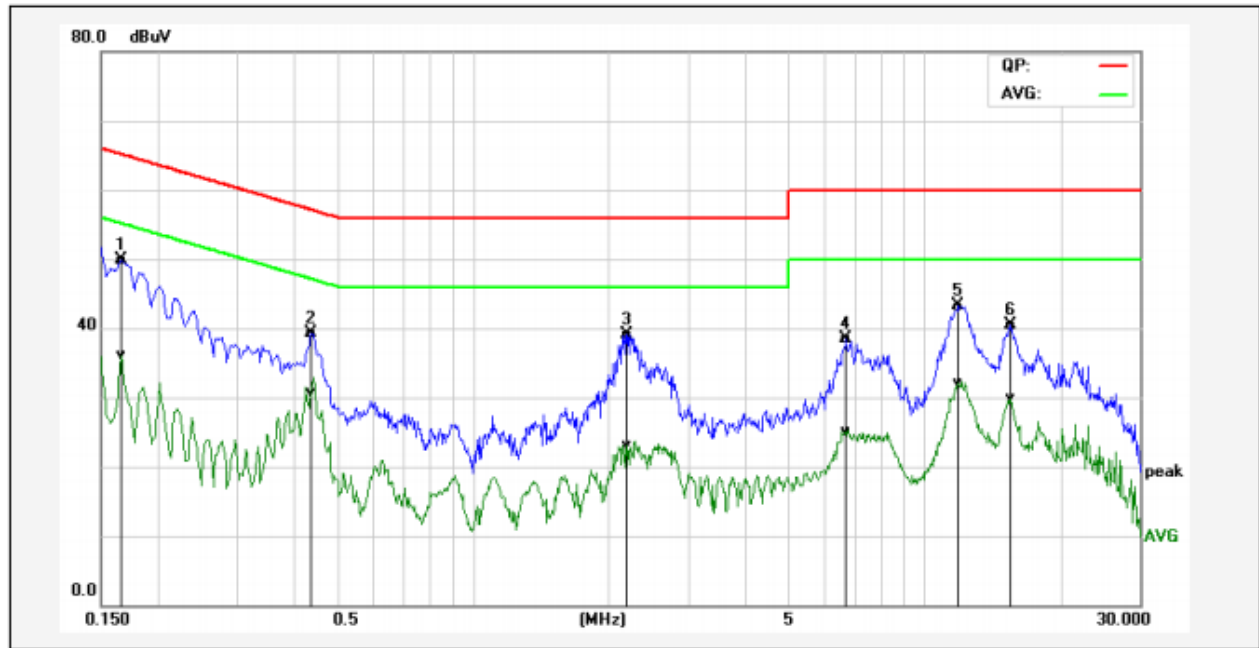
EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	22.0°C/55%RH	Test Mode	Mode 1
Power supply	AC120V/60Hz(Adapter2)	Test Engineer	Chen Zexin
Test Date	2023/04/04	Sample No.	E20230322442901-0001



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	41.92	24.12	9.61	51.53	33.73	65.99	56.00	-14.46	-22.27	Pass
2	0.4380	29.08	19.85	9.61	38.69	29.46	57.10	47.10	-18.41	-17.64	Pass
3	2.2340	27.91	10.62	9.65	37.56	20.27	56.00	46.00	-18.44	-25.73	Pass
4	8.1860	25.55	13.31	9.75	35.30	23.06	60.00	50.00	-24.70	-26.94	Pass
5	12.1180	33.63	23.09	9.78	43.41	32.87	60.00	50.00	-16.59	-17.13	Pass
6	15.3660	30.93	20.11	9.81	40.74	29.92	60.00	50.00	-19.26	-20.08	Pass

Note: L = Live Line

EUT Name	AX3000 Dual Band WiFi6 Mesh Router	Model	NM3015
Environmental Conditions	22.0°C/55%RH	Test Mode	Mode 1
Power supply	AC120V/60Hz(Adapter2)	Test Engineer	Chen Zexin
Test Date	2023/04/04	Sample No.	E20230322442901-0001



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1660	40.30	26.59	9.61	49.91	36.20	65.15	55.16	-15.24	-18.96	Pass
2	0.4380	29.62	21.06	9.61	39.23	30.67	57.10	47.10	-17.87	-16.43	Pass
3	2.1980	29.43	13.54	9.65	39.08	23.19	56.00	46.00	-16.92	-22.81	Pass
4	6.7100	28.78	15.38	9.74	38.52	25.12	60.00	50.00	-21.48	-24.88	Pass
5	11.9020	33.42	22.24	9.78	43.20	32.02	60.00	50.00	-16.80	-17.98	Pass
6	15.4860	30.66	20.07	9.81	40.47	29.88	60.00	50.00	-19.53	-20.12	Pass

Note: N = Neutral Line.

## 6. RADIATED SPURIOUS EMISSIONS

### 6.1. LIMITS

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: 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.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength( $\mu$ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

----- The following blanks -----

## 6.2. TEST PROCEDURES

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters please see the below table.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

For 9kHz-150kHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9kHz
Stop frequency	150kHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9kHz-90kHz&110kHz-150kHz,the detector is average,other frequency is CISPR QP detector.

For 150kHz-30MHz

Spectrum Parameters	Setting
RBW	9kHz
VBW	9kHz
Start frequency	150kHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150kHz-490kHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120kHz
VBW	300kHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle ≥ 98%, VBW = 10Hz Duty cycle < 98%, VBW ≥ 1/T Video bandwidth mode = RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note :

- (1) T is the on-time time of the duty cycle, when EUT transmit continuously with maximum output power, unit is seconds. reference section 2.8 for the on-time time.
- (2) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:  

$$E = \text{EIRP} - 20\log D + 104.8$$
 where:  
 E = electric field strength in dBμV/m,  
 EIRP = equivalent isotropic radiated power in dBm  
 D = specified measurement distance in meters.  
 So:  $E = -27 - 20\log 3 + 104.8 = 68.3 \text{ (dB}\mu\text{V/m)}$ .
- (3) The unwanted emissions which fall in Restricted bands shall not exceed the field strength ,Above 18G test distance is 1m, so the Peak Limit =  $74 + 20 * \log(3/1) = 83.54 \text{ (dB}\mu\text{V/m)}$ .  
 The Avg Limit =  $54 + 20 * \log(3/1) = 63.54 \text{ (dB}\mu\text{V/m)}$ .
- (4) The maximum emissions of the operation frequency bands ,Above 18G test distance is 1m, so the Peak Limit =  $68.3 + 20 * \log(3/1) = 77.84 \text{ (dB}\mu\text{V/m)}$ .

### 6.3. TEST SETUP

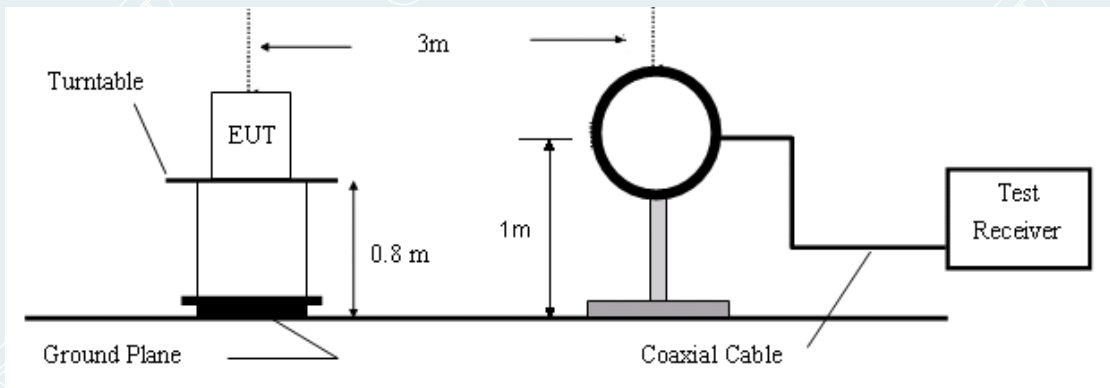


Figure 1. 9kHz to 30MHz radiated emissions test configuration

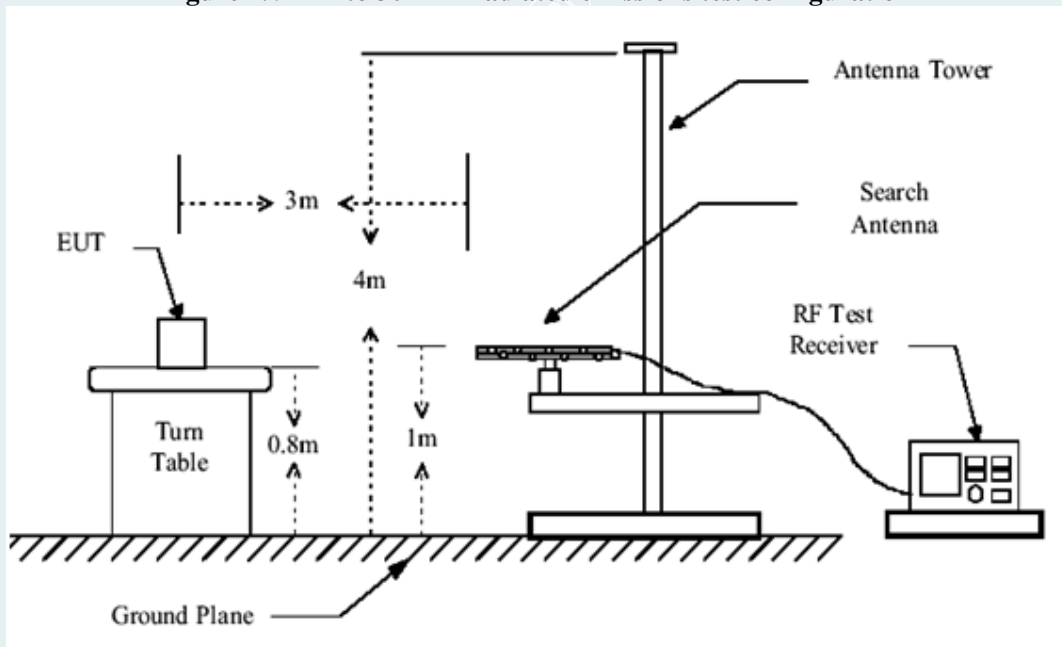


Figure 2. 30MHz to 1GHz radiated emissions test configuration

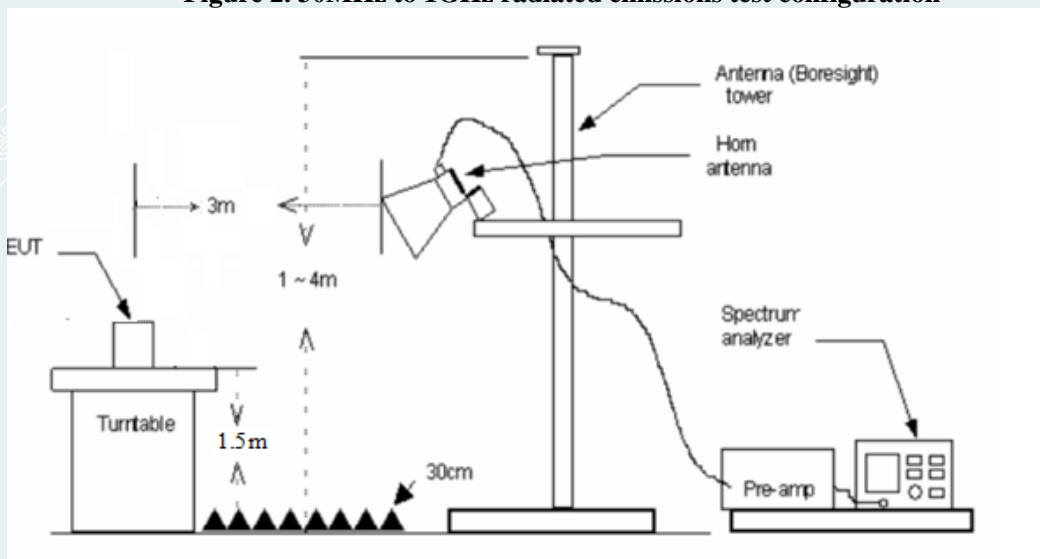


Figure 3. 1GHz-18GHz radiated emissions test configuration



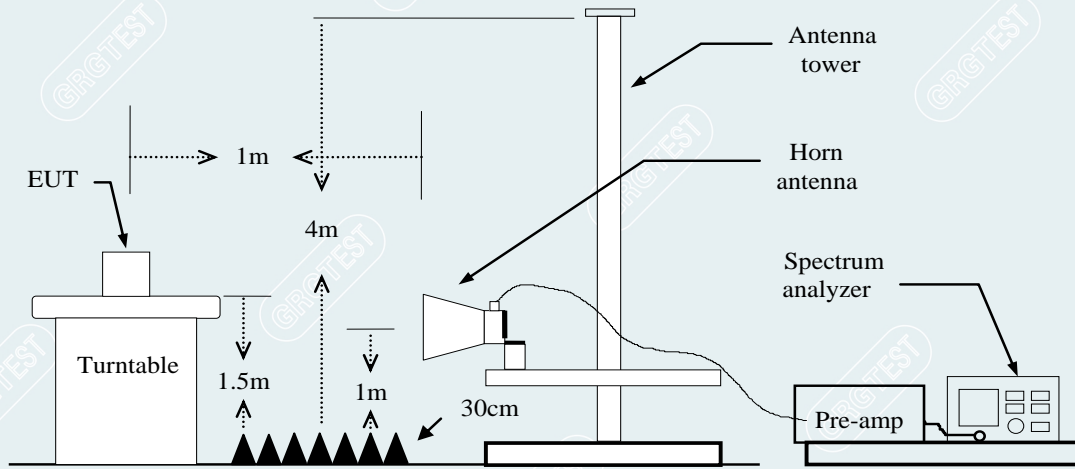


Figure 4. Above 18GHz radiated emissions test configuration

6.4. DATA SAMPLE

30MHz to 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
XXXX	63.53	-27.15	36.38	43.50	-7.12	0	100	QP

- Frequency (MHz) = Emission frequency in MHz
- Reading (dBuV) = Uncorrected Analyzer / Receiver reading
- Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
- Limit (dBuV/m) = Limit stated in standard
- Margin (dB) = Result (dBuV/m) – Limit(dBuV/m)
- QP = Quasi-peak Reading

----- The following blanks -----

**1GHz-18GHz**

No.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal	Peak
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal	AVG

**Above 18GHz**

No.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	54.49	42.38	-12.11	83.54	41.16	100	211	Vertical	Peak
xxx	xxxx	43.99	31.88	-12.11	63.54	31.66	100	211	Vertical	AVG

- Frequency (MHz) = Emission frequency in MHz
- Reading (dBuV/m) = Uncorrected Analyzer / Receiver reading
- Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
- Level (dBuV/m) = Reading (dBuV/m) + Factor (dB/m)
- Limit (dBuV/m) = Limit stated in standard
- Margin (dB) = Limit (dBuV/m) – Level (dBuV/m)
- Polarity = Antenna polarization
- Peak = Peak Reading
- AVG = Average Reading

----- The following blanks -----

### 6.5. TEST RESULTS

#### Below 1GHz

All models were pretested and only the worst modes and channels were recorded in this report. (IEEE 802.11n HT20 5180MHz:CDD)

Mode: Mode 1

Temp. /Hum.:21.3°C/49%RH

Test Engineer: Wang Xinyuan

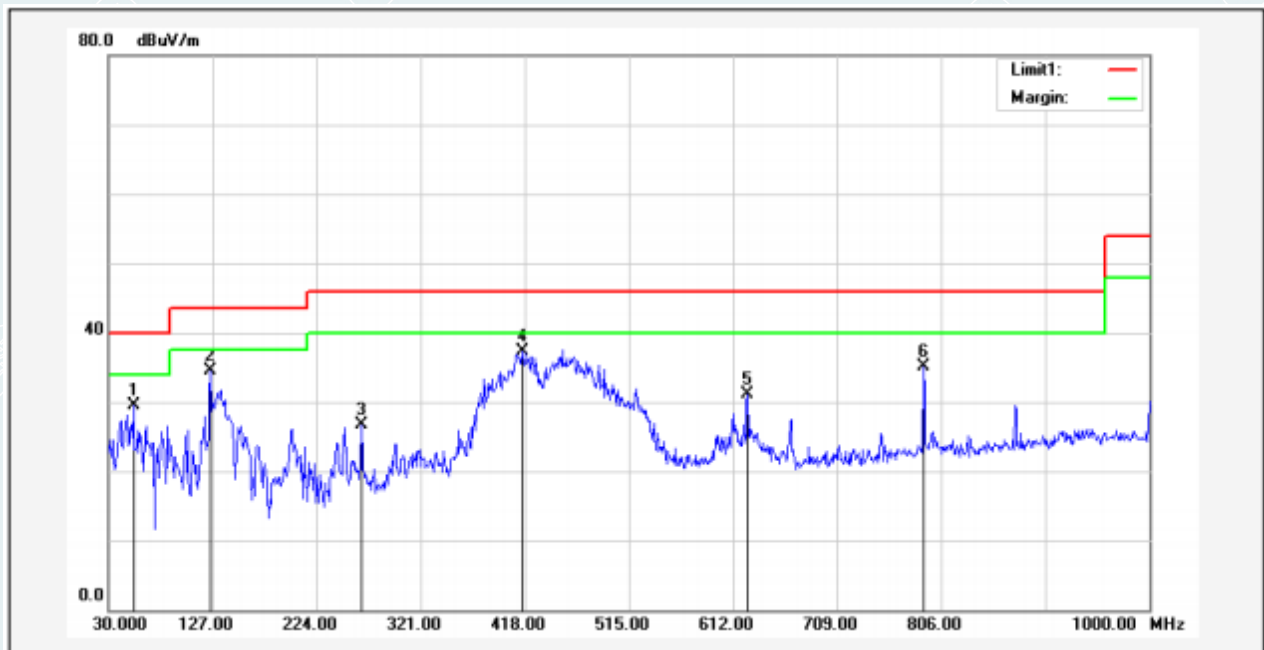
Polarity: Vertical

Channel :5180MHz

Power supply:AC120V/60Hz

Test Date: 2023-04-05

Note: Adapter 1



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	53.2800	56.46	-27.03	29.43	40.00	-10.57	215	100	QP
2	125.0600	60.48	-25.89	34.59	43.50	-8.91	159	100	QP
3	265.7100	51.04	-24.32	26.72	46.00	-19.28	137	100	QP
4*	416.0600	57.01	-19.68	37.33	46.00	-8.67	360	116	QP
5	625.5800	47.00	-15.97	31.03	46.00	-14.97	360	152	QP
6	789.5100	48.92	-13.85	35.07	46.00	-10.93	245	200	QP

Mode: Mode 1

Temp. /Hum.: 21.3°C/49%RH

Test Engineer: Wang Xinyuan

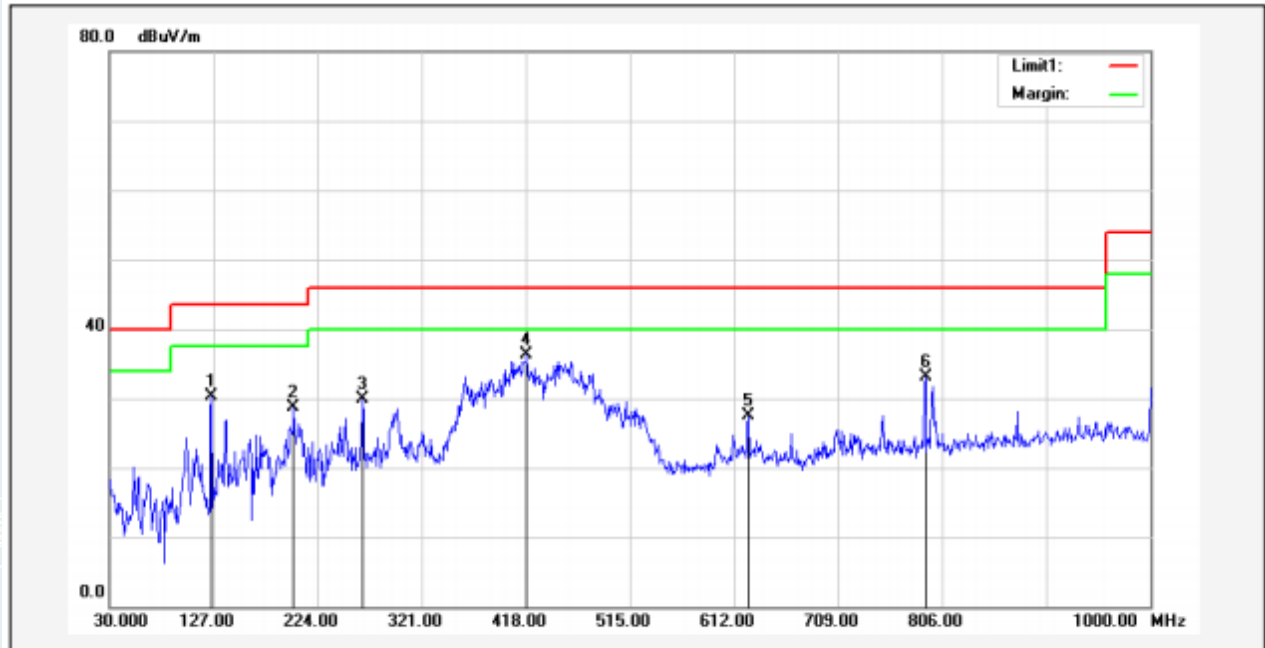
Polarity: Horizontal

Channel :5180MHz

Power supply:AC120V/60Hz

Test Date: 2023-04-05

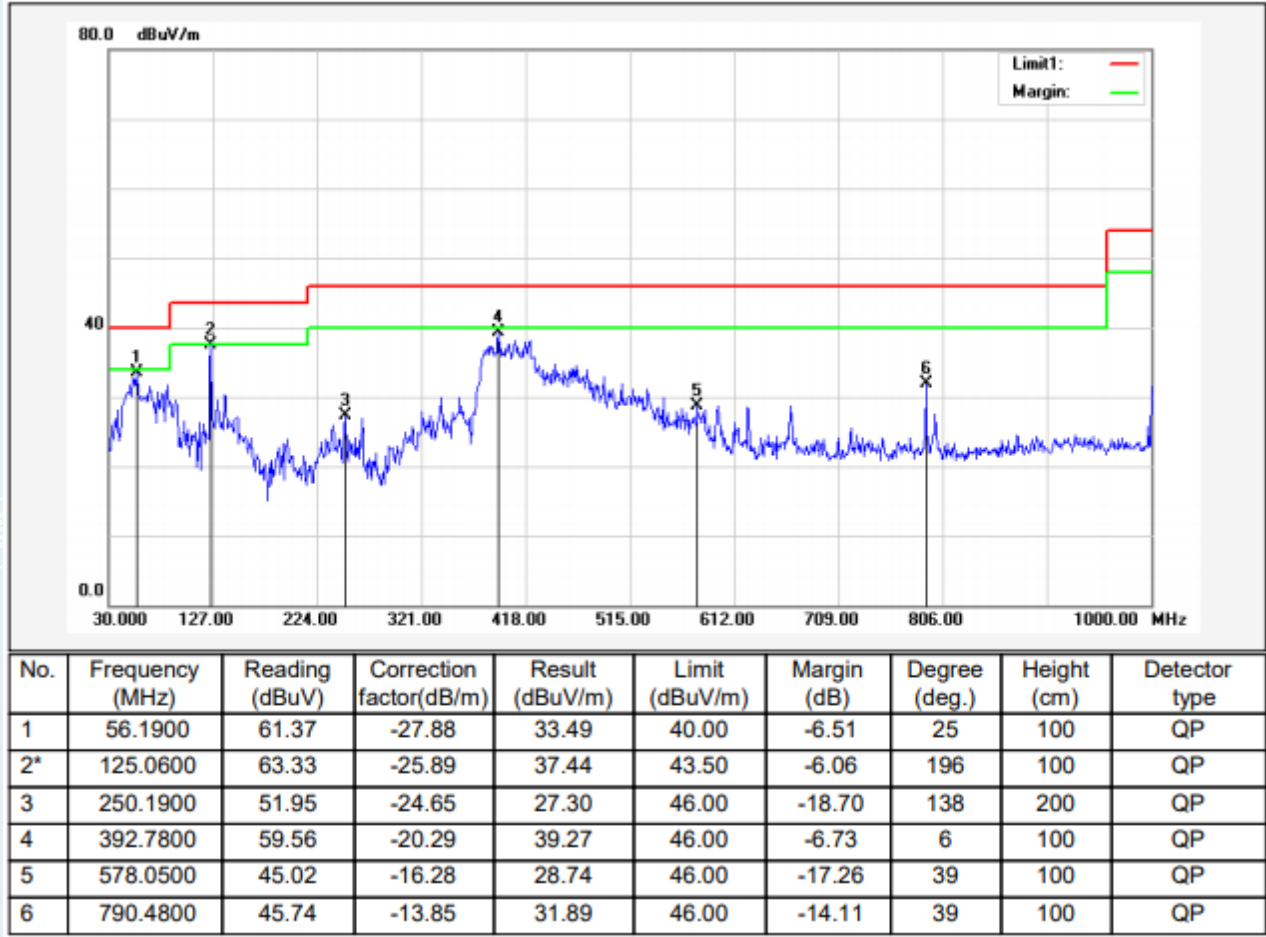
Note: Adapter 1



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	125.0600	56.16	-25.89	30.27	43.50	-13.23	337	200	QP
2	201.6900	55.33	-26.57	28.76	43.50	-14.74	179	100	QP
3	265.7100	54.21	-24.32	29.89	46.00	-16.11	229	100	QP
4*	418.9700	55.86	-19.64	36.22	46.00	-9.78	86	100	QP
5	625.5800	43.50	-15.97	27.53	46.00	-18.47	212	100	QP
6	790.4800	46.86	-13.85	33.01	46.00	-12.99	107	100	QP

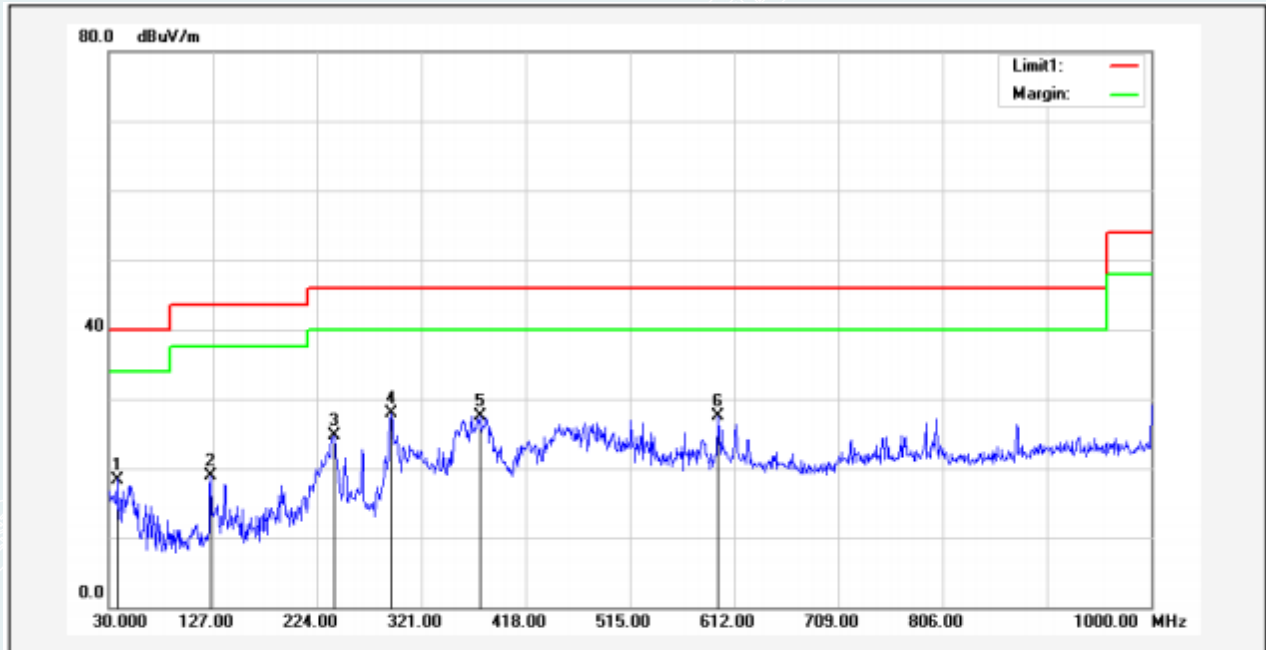
Mode: Mode 1  
 Temp./Hum.: 21.3°C/49%RH  
 Test Engineer: Wang Xinyuan  
 Polarity: Vertical

Channel :5180MHz  
 Power supply:AC120V/60Hz  
 Test Date: 2023-04-05  
 Note: Adapter 2



Mode: Mode 1  
 Temp. /Hum.: 21.3°C/49%RH  
 Test Engineer: Wang Xinyuan  
 Polarity: Horizontal

Channel :5180MHz  
 Power supply:AC120V/60Hz  
 Test Date: 2023-04-05  
 Note: Adapter 2



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	37.7600	38.81	-20.41	18.40	40.00	-21.60	358	100	QP
2	125.0600	44.84	-25.89	18.95	43.50	-24.55	360	130	QP
3	240.4900	49.65	-25.04	24.61	46.00	-21.39	360	142	QP
4*	292.8700	51.78	-23.78	28.00	46.00	-18.00	137	100	QP
5	375.3200	48.68	-21.15	27.53	46.00	-18.47	14	200	QP
6	597.4500	43.69	-16.14	27.55	46.00	-18.45	99	200	QP

**Remark:**

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.

**1GHz-18GHz**

Pre-scan all modes and recorded the worst case results in this report (20MHz, 40MHz, 80MHz, 160MHz for SISO, CDD, SDM mode).

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5180MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1055.632	61.98	37.95	-24.03	74.00	36.05	200	311	Horizontal
2	2230.1538	56.32	39.38	-16.94	74.00	34.62	100	195	Horizontal
3	4249.7812	65.19	53.63	-11.56	74.00	20.37	200	344	Horizontal
4	6469.5587	57.13	51.18	-5.95	68.30	17.12	200	201	Horizontal
5	10356.5446	55.54	60.39	4.85	68.30	7.91	100	222	Horizontal
6	17996.9996	44.15	54.67	10.52	74.00	19.33	200	68	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4249.7812	-11.56	50.32	38.76	54.00	15.24	200	344	Horizontal
2	17996.9996	10.52	30.21	40.73	54.00	13.27	200	68	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1064.383	63.49	41.69	-21.80	74.00	32.31	200	128	Vertical
2	2909.6137	62.52	46.65	-15.87	68.30	21.65	100	344	Vertical
3	5619.3274	60.16	53.50	-6.66	68.30	14.80	100	216	Vertical
4	6469.5587	58.01	51.90	-6.11	68.30	16.40	200	230	Vertical
5	10359.5449	59.90	65.14	5.24	68.30	3.16	200	338	Vertical
6	17998.4998	43.56	56.90	13.34	74.00	17.10	200	239	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10361.6472	5.24	45.04	50.28	NA	NA	198	343.5	Vertical
2	17998.4998	13.34	30.34	43.68	54.00	10.32	200	239	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5200MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1063.1329	61.80	37.76	-24.04	74.00	36.24	200	288	Horizontal
2	2250.1563	57.01	40.16	-16.85	74.00	33.84	100	324	Horizontal
3	2641.4552	58.58	41.51	-17.07	68.30	26.79	200	342	Horizontal
4	4227.2784	65.55	53.86	-11.69	74.00	20.14	200	0	Horizontal
5	10400.05	52.71	57.62	4.91	68.30	10.68	100	345	Horizontal
6	17996.9996	43.92	54.44	10.52	74.00	19.56	200	146	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4227.2784	-11.69	51.35	39.66	54.00	14.34	200	0	Horizontal
2	17996.9996	10.52	30.34	40.86	54.00	13.14	200	146	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1062.5078	63.45	41.60	-21.85	74.00	32.40	100	345	Vertical
2	1873.2342	60.68	39.11	-21.57	68.30	29.19	100	19	Vertical
3	3181.5227	66.03	50.71	-15.32	68.30	17.59	200	336	Vertical
4	5528.6911	61.00	54.15	-6.85	68.30	14.15	100	209	Vertical
5	10397.0496	59.41	65.08	5.67	68.30	3.22	200	238	Vertical
6	17996.9996	44.55	57.84	13.29	74.00	16.16	200	198	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10399.9044	5.67	41.09	46.76	NA	NA	200	233.6	Vertical
2	17996.9996	13.29	31.24	44.53	54.00	9.47	200	198	Vertical



Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5240MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1063.758	61.84	37.81	-24.03	74.00	36.19	200	305	Horizontal
2	1924.4906	64.69	45.19	-19.50	68.30	23.11	200	273	Horizontal
3	3999.75	60.09	47.67	-12.42	74.00	26.33	200	325	Horizontal
4	4248.5311	65.13	53.56	-11.57	74.00	20.44	200	4	Horizontal
5	10476.5596	54.47	59.34	4.87	68.30	8.96	100	344	Horizontal
6	18000	43.89	54.48	10.59	74.00	19.52	200	58	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4248.5311	-11.57	50.34	38.77	54.00	15.23	200	4	Horizontal
2	18000	10.59	30.21	40.80	54.00	13.20	200	58	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1062.5078	64.79	42.94	-21.85	74.00	31.06	200	10	Vertical
2	1873.2342	60.92	39.35	-21.57	68.30	28.95	100	6	Vertical
3	3189.0236	60.87	45.56	-15.31	68.30	22.74	200	335	Vertical
4	5616.8271	60.50	53.86	-6.64	68.30	14.44	100	229	Vertical
5	10479.5599	61.00	66.03	5.03	68.30	2.27	200	337	Vertical
6	17995.4994	44.66	57.90	13.24	74.00	16.10	100	340	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10481.0721	5.03	42.89	47.92	NA	NA	200	335.1	Vertical
2	17995.4994	13.24	31.27	44.51	54.00	9.49	100	340	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5260MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1065.0081	63.67	39.63	-24.04	74.00	34.37	100	317	Horizontal
2	2205.7757	56.75	39.69	-17.06	74.00	34.31	100	286	Horizontal
3	3115.2644	56.59	41.76	-14.83	68.30	26.54	100	236	Horizontal
4	4237.2797	65.66	54.03	-11.63	74.00	19.97	200	344	Horizontal
5	10520.065	56.31	61.23	4.92	68.30	7.07	100	345	Horizontal
6	17996.9996	43.89	54.41	10.52	74.00	19.59	200	196	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4237.2797	-11.63	50.37	38.74	54.00	15.26	200	344	Horizontal
2	17996.9996	10.52	30.24	40.76	54.00	13.24	200	196	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1062.5078	64.26	42.41	-21.85	74.00	31.59	200	31	Vertical
2	1874.4843	61.41	39.85	-21.56	68.30	28.45	200	10	Vertical
3	3172.7716	63.22	47.91	-15.31	68.30	20.39	200	10	Vertical
4	5679.96	60.84	54.02	-6.82	68.30	14.28	100	218	Vertical
5	10521.5652	62.24	66.91	4.67	68.30	1.39	200	337	Vertical
6	18000	43.69	57.08	13.39	74.00	16.92	100	324	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10520.1974	4.67	44.40	49.07	NA	NA	200	334.6	Vertical
2	18000	13.39	31.34	44.73	54.00	9.27	100	324	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5280MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1059.3824	63.24	39.21	-24.03	74.00	34.79	200	344	Horizontal
2	2251.4064	56.79	39.92	-16.87	74.00	34.08	200	344	Horizontal
3	3155.2694	56.60	42.07	-14.53	68.30	26.23	100	250	Horizontal
4	4237.9047	65.47	53.84	-11.63	74.00	20.16	200	344	Horizontal
5	10560.5701	55.38	59.67	4.29	68.30	8.63	100	339	Horizontal
6	17821.4777	44.52	54.57	10.05	74.00	19.43	200	166	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4237.9047	-11.63	50.24	38.61	54.00	15.39	200	344	Horizontal
2	17821.4777	10.05	30.21	40.26	54.00	13.74	200	166	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1064.383	63.74	41.94	-21.80	74.00	32.06	200	11	Vertical
2	2658.9574	64.02	47.58	-16.44	68.30	20.72	100	9	Vertical
3	4972.3715	60.70	52.34	-8.36	74.00	21.66	100	228	Vertical
4	5569.9462	60.44	53.71	-6.73	68.30	14.59	100	217	Vertical
5	10556.0695	61.75	65.57	3.82	68.30	2.73	200	332	Vertical
6	17998.4998	43.59	56.93	13.34	74.00	17.07	100	75	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4967.4786	-8.36	48.01	39.65	54.00	14.35	141	205.8	Vertical
2	10561.5692	3.82	42.16	45.98	NA	NA	200	332.3	Vertical
3	17998.305	13.34	32.10	45.44	54.00	8.56	186	103.9	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5320MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1055.632	61.56	37.53	-24.03	74.00	36.47	100	289	Horizontal
2	2270.1588	56.54	39.41	-17.13	74.00	34.59	100	301	Horizontal
3	3985.9982	56.95	44.43	-12.52	74.00	29.57	200	344	Horizontal
4	4241.6552	64.74	53.13	-11.61	74.00	20.87	200	344	Horizontal
5	10641.5802	55.72	60.53	4.81	74.00	13.47	100	345	Horizontal
6	17890.4863	44.78	54.36	9.58	74.00	19.64	100	14	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4235.4549	-11.61	44.76	33.15	54.00	20.85	200	320.2	Horizontal
2	10641.8923	4.81	42.38	47.19	54.00	6.81	109	342	Horizontal
3	17893.3339	9.58	32.31	41.89	54.00	12.11	195	306.2	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1405.6757	60.31	39.74	-20.57	74.00	34.26	200	0	Vertical
2	1874.4843	60.57	39.01	-21.56	68.30	29.29	100	0	Vertical
3	3987.2484	58.82	46.61	-12.21	74.00	27.39	100	187	Vertical
4	5666.2083	60.58	53.80	-6.78	68.30	14.50	100	216	Vertical
5	10637.0796	60.29	64.94	4.65	74.00	9.06	200	336	Vertical
6	18000	44.43	57.82	13.39	74.00	16.18	200	208	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10641.8542	4.65	43.36	48.01	54.00	5.99	108	328.3	Vertical
2	17880.04	13.39	32.50	45.89	54.00	8.11	174	210.9	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5500MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1056.257	64.71	38.97	-25.74	74.00	35.03	200	310	Horizontal
2	1250.0313	58.12	34.93	-23.19	68.30	33.37	200	354	Horizontal
3	2202.0253	56.59	37.17	-19.42	74.00	36.83	100	57	Horizontal
4	4263.5329	68.28	52.73	-15.55	74.00	21.27	200	15	Horizontal
5	10995.6245	53.59	57.36	3.77	74.00	16.64	100	344	Horizontal
6	18000	43.86	54.45	10.59	74.00	19.55	100	305	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4263.5329	-15.55	50.34	34.79	54.00	19.21	200	15	Horizontal
2	11001.1964	3.77	40.30	44.07	54.00	9.93	102	204.8	Horizontal
3	18000	10.59	31.24	41.83	54.00	12.17	100	305	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1056.8821	63.13	39.38	-23.75	74.00	34.62	200	15	Vertical
2	1874.4843	62.16	38.05	-24.11	68.30	30.25	100	354	Vertical
3	2906.4883	64.29	44.18	-20.11	68.30	24.12	100	314	Vertical
4	4122.2653	62.29	46.55	-15.74	74.00	27.45	100	145	Vertical
5	11000.125	60.57	65.12	4.55	74.00	8.88	100	326	Vertical
6	18000	44.15	57.54	13.39	74.00	16.46	200	170	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11001.7144	4.55	45.56	50.11	54.00	3.89	101	337.8	Vertical
2	18000	13.39	30.54	43.93	54.00	10.07	200	170	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5580MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1071.884	65.61	39.61	-26.00	74.00	34.39	200	291	Horizontal
2	2640.205	59.09	39.08	-20.01	68.30	29.22	200	258	Horizontal
3	3999.75	63.31	46.84	-16.47	74.00	27.16	200	344	Horizontal
4	4224.153	67.79	52.34	-15.45	74.00	21.66	200	344	Horizontal
5	11160.6451	50.34	53.41	3.07	74.00	20.59	100	337	Horizontal
6	17795.9745	44.30	54.33	10.03	74.00	19.67	200	357	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4224.153	-15.45	50.31	34.86	54.00	19.14	200	344	Horizontal
2	11161.6119	3.07	37.98	41.05	54.00	12.95	109	342.4	Horizontal
3	17795.9745	10.03	30.24	40.27	54.00	13.73	200	357	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1059.3824	65.42	41.71	-23.71	74.00	32.29	200	20	Vertical
2	2642.7053	62.56	43.05	-19.51	68.30	25.25	200	9	Vertical
3	4187.8985	60.59	45.30	-15.29	74.00	28.70	100	171	Vertical
4	5771.8465	58.66	50.16	-8.50	68.30	18.14	100	232	Vertical
5	11156.1445	56.95	59.82	2.87	74.00	14.18	100	336	Vertical
6	17993.9992	44.23	57.42	13.19	74.00	16.58	200	26	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11161.1538	2.87	41.77	44.64	54.00	9.36	155	327.7	Vertical
2	17993.9992	13.19	31.24	44.43	54.00	9.57	200	26	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5700MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1056.257	64.02	38.28	-25.74	74.00	35.72	200	0	Horizontal
2	1193.1491	61.99	37.32	-24.67	74.00	36.68	100	334	Horizontal
3	2652.0815	62.84	42.82	-20.02	68.30	25.48	200	225	Horizontal
4	4221.6527	67.75	52.33	-15.42	74.00	21.67	200	344	Horizontal
5	10466.0583	48.05	52.64	4.59	68.30	15.66	200	218	Horizontal
6	17996.9996	44.41	54.93	10.52	74.00	19.07	100	308	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4221.6527	-15.42	50.34	34.92	54.00	19.08	200	344	Horizontal
2	17996.9996	10.52	30.12	40.64	54.00	13.36	100	308	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1056.257	63.26	39.51	-23.75	74.00	34.49	200	19	Vertical
2	2479.5599	62.47	42.04	-20.43	68.30	26.26	100	74	Vertical
3	3174.0218	60.87	42.68	-18.19	68.30	25.62	200	335	Vertical
4	5771.2214	59.47	51.00	-8.47	68.30	17.30	100	228	Vertical
5	9876.4846	48.49	52.30	3.81	68.30	16.00	200	227	Vertical
6	18000	43.89	57.28	13.39	74.00	16.72	100	25	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18000	13.39	31.21	44.60	54.00	9.40	100	25	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5720MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1064.383	62.42	36.53	-25.89	74.00	37.47	200	313	Horizontal
2	3175.2719	58.54	40.66	-17.88	68.30	27.64	200	64	Horizontal
3	4000.375	63.68	47.79	-15.89	74.00	26.21	200	0	Horizontal
4	4221.6527	63.02	47.69	-15.33	74.00	26.31	200	0	Horizontal
5	9877.9847	48.53	52.82	4.29	68.30	15.48	100	354	Horizontal
6	17827.4784	43.80	53.82	10.02	74.00	20.18	100	272	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	17827.4784	10.02	30.21	40.23	54.00	13.77	100	272	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1064.383	63.43	39.78	-23.65	74.00	34.22	100	54	Vertical
2	1374.4218	60.73	37.99	-22.74	74.00	36.01	100	344	Vertical
3	3168.396	61.97	43.15	-18.82	68.30	25.15	200	32	Vertical
4	5646.2058	62.33	53.06	-9.27	68.30	15.24	100	131	Vertical
5	6000	61.47	53.15	-8.32	68.30	15.15	100	131	Vertical
6	18000	43.93	57.32	13.39	74.00	16.68	100	65	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	17879.26	13.39	32.34	45.73	54.00	8.27	108	20	Vertical



Mode: Mode 1/ IEEE 802.11a SISO ANT2

Temp. /Hum.:23.9°C/59%RH

Test Engineer: Zhang Zishan

Channel :5745MHz

Power supply:AC120V/60Hz

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1058.1323	64.10	38.31	-25.79	74.00	35.69	100	335	Horizontal
2	2218.2773	56.40	36.70	-19.70	74.00	37.30	200	334	Horizontal
3	4000.375	61.53	45.64	-15.89	74.00	28.36	200	291	Horizontal
4	4224.7781	66.78	51.41	-15.37	74.00	22.59	200	0	Horizontal
5	10467.5584	47.69	52.32	4.63	68.30	15.98	200	295	Horizontal
6	17651.9565	45.52	54.30	8.78	68.30	14.00	200	208	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4224.7781	-15.37	50.31	34.94	54.00	19.06	200	0	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1060.0075	67.70	43.98	-23.72	74.00	30.02	200	344	Vertical
2	1405.6757	61.20	38.59	-22.61	74.00	35.41	200	344	Vertical
3	2655.2069	65.87	46.50	-19.37	68.30	21.80	200	17	Vertical
4	5679.96	62.00	52.68	-9.32	68.30	15.62	100	224	Vertical
5	10403.0504	46.67	52.31	5.64	68.30	15.99	100	195	Vertical
6	17998.4998	43.38	56.72	13.34	74.00	17.28	200	65	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	17998.4998	13.34	30.21	43.55	54.00	10.45	200	65	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5785MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1063.1329	62.62	36.75	-25.87	74.00	37.25	200	306	Horizontal
2	2656.4571	61.37	41.36	-20.01	68.30	26.94	200	226	Horizontal
3	4000.375	63.59	47.70	-15.89	74.00	26.30	200	360	Horizontal
4	4221.6527	66.71	51.38	-15.33	74.00	22.62	200	317	Horizontal
5	10512.5641	47.00	52.13	5.13	68.30	16.17	200	0	Horizontal
6	17881.4852	44.96	54.62	9.66	74.00	19.38	100	91	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4221.6527	-15.33	50.34	35.01	54.00	18.99	200	317	Horizontal
2	17881.4852	9.66	31.22	40.88	54.00	13.12	100	91	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1060.0075	71.07	47.35	-23.72	74.00	26.65	100	15	Vertical
2	2928.9911	65.90	46.76	-19.14	68.30	21.54	100	15	Vertical
3	3177.7722	63.56	45.00	-18.56	68.30	23.30	100	329	Vertical
4	5681.8352	61.61	52.29	-9.32	68.30	16.01	100	226	Vertical
5	9784.9731	47.69	52.16	4.47	68.30	16.14	100	33	Vertical
6	18000	43.96	57.35	13.39	74.00	16.65	200	345	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18000	13.39	30.54	43.93	54.00	10.07	200	345	Vertical

Mode: Mode 1/ IEEE 802.11a SISO ANT2

Channel :5825MHz

Temp. /Hum.:23.9°C/59%RH

Power supply:AC120V/60Hz

Test Engineer: Zhang Zishan

Test Date: 2023-04-16

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1055.0069	63.33	37.60	-25.73	74.00	36.40	200	296	Horizontal
2	2258.2823	57.45	37.43	-20.02	74.00	36.57	200	338	Horizontal
3	4000.375	62.96	47.07	-15.89	74.00	26.93	200	296	Horizontal
4	4221.6527	67.92	52.59	-15.33	74.00	21.41	200	360	Horizontal
5	9856.9821	48.05	52.67	4.62	68.30	15.63	100	204	Horizontal
6	17986.4983	44.16	54.42	10.26	74.00	19.58	100	323	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4227.5174	-15.33	45.05	29.72	54.00	24.28	200	320.6	Horizontal
2	17885.855	10.26	32.49	42.75	54.00	11.25	168	150.8	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1061.2577	63.36	39.66	-23.70	74.00	34.34	200	37	Vertical
2	1406.3008	60.83	38.22	-22.61	74.00	35.78	200	14	Vertical
3	3169.0211	60.35	41.55	-18.80	68.30	26.75	200	14	Vertical
4	5608.076	60.34	51.33	-9.01	68.30	16.97	100	223	Vertical
5	5924.3655	60.33	51.92	-8.41	68.30	16.38	100	223	Vertical
6	17996.9996	43.42	56.71	13.29	74.00	17.29	200	345	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	17996.9996	13.29	31.24	44.53	54.00	9.47	200	345	Vertical

Mode: Mode 1/ IEEE 802.11a CDD  
 Temp. /Hum.:23.9°C/59%RH  
 Test Engineer: Zhang Zishan

Channel :5180MHz  
 Power supply:AC120V/60Hz  
 Test Date: 2023-04-30

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2253.4692	57.49	40.09	-17.40	74.00	33.91	100	198	Horizontal
2	3891.2989	59.68	46.02	-13.66	74.00	26.32	200	12	Horizontal
3	4935.7420	60.41	51.75	-8.66	74.00	22.25	100	179	Horizontal
4	6478.6848	55.37	52.40	-2.97	68.30	15.90	100	208	Horizontal
5	8072.8216	50.85	50.33	-0.52	74.00	23.67	100	83	Horizontal
6	10355.8570	60.38	65.23	4.85	68.30	3.07	200	35	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3891.2989	-13.66	58.64	44.98	54.00	9.02	200	12	Horizontal
2	4935.7420	-8.66	54.16	45.50	54.00	8.50	100	179	Horizontal
3	8072.8216	-0.52	43.72	43.20	54.00	10.80	100	83	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1769.4087	73.45	52.33	-21.12	68.30	15.97	100	266	Vertical
2	2663.9580	66.02	49.18	-16.84	68.30	19.12	200	345	Vertical
3	4897.9247	59.34	51.08	-8.26	74.00	19.36	200	286	Vertical
4	5618.5148	59.46	53.61	-5.85	68.30	13.34	200	227	Vertical
5	6471.8090	56.90	53.82	-3.08	68.30	14.48	100	236	Vertical
6	10355.8570	61.62	66.83	5.21	68.30	1.47	100	16	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4897.9247	-8.26	54.39	46.13	54.00	7.87	200	286	Vertical