Test Report

Verified code: 784213

Report No.: E20230512370501-3

Customer:	Wuxi Auto-Link World Information Technology Co., Ltd.
Address:	No. 8, Huayun road, Wuxi city, Jiangsu Province, P.R.China
Sample Name:	BYD Di5.0F
Sample Model:	MTCA05
Receive Sample Date:	May.16,2023
Test Date:	May.19,2023 ~ Jun.06,2023
Reference Document:	CFR 47, FCC Part 15 Subpart C RADIO FREQUENCY DEVICES:Subpart C—Intentional Radiators
Test Result:	Pass

Prepared by: Lu Wei Reviewed by: Jiang Tao Approved by: Xiao Liang

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2023-06-27

GRG METROLOGY & TEST GROUP CO., LTD
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Statement

1. The report is invalid without "special seal for inspection and testing"; some copies are invalid; The report is invalid if it is altered or missing; The report is invalid without the signature of the person who prepared, reviewed and approved it.

2. The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.

3. When there are reports in both Chinese and English, the Chinese version will prevail when the language problems are inconsistent.

4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.

5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20230512370501-3	Original Issue	2023-06-09

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1. TEST RESULT SUMMARY

Standard	Item	Limit / Severity	Result
CFR 47, FCC Part 15 Subpart C (§15.247), ANSI C63.10-2013, KDB 558074 D01 15.247 measurement guidance v05r02	Antenna Requirement	§15.203	PASS[1)]
	Conducted Emissions	§15.207 (a)	NA[2)]
	Radiated Spurious Emission	§15.247(d) §15.205 §15.209	PASS
	6 dB Bandwidth	§15.247 (a)(2)	PASS
	Maximum Peak Output Power	§15.247(b)(3)	PASS
	Power Spectral Density	§15.247(e)	PASS
	Conducted band edges and Spurious Emission	§15.247(d)	PASS
	Restricted bands of operation	§15.205 §15.209 §15.247(d)	PASS

Note:

1. The EUT antenna is PCB antenna. The max gain of Antenna is 3.16dBi which accordance 15.203 is considered sufficient to comply with the provisions of this section.
2. The EUT is power by DC source, not applicable.
3. 802.11ax HE20, 802.11ax HE40 Resource Unit (RU) is full RU.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name:	Wuxi Auto-Link World Information Technology Co., Ltd.
Address:	No. 8, Huayun road, Wuxi city, Jiangsu Province, P.R.China

2.2 MANUFACTURER

Name:	Wuxi Auto-Link World Information Technology Co., Ltd.
Address:	No. 8, Huayun road, Wuxi city, Jiangsu Province, P.R.China

2.3 FACTORY

Name:	Wuxi Auto-Link World Information Technology Co., Ltd.
Address:	No. 8, Huayun road, Wuxi city, Jiangsu Province, P.R.China

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name:	BYD Di5.0F
Product Model:	MTCA05
Adding Model:	/
Trade Name:	BYD
FCC ID:	2BBDI20003502MTCA05
Power Supply:	DC 12.0V,2.88A（Max）
Frequency Band:	2412MHz-2462MHz for 802.11b/g/n HT20/ax HE20 2422 MHz-2452MHz for 802.11n HT40/ax HE40
Modulation Type:	DSSS for 802.11b mode; OFDM for 802.11g/n mode OFDM, OFDMA for 802.11ax mode
Antenna Specification:	PCB antenna with 3.16dBi gain (Max)
Temperature Range:	-30℃~70℃
Hardware Version:	0.0.6
Software Version:	4.00.3
Sample submitting way:	■Provided by customer □Sampling
Sample No:	E20230512370501-0001, E20230512370501-0002
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.

2.5 CHANNEL LIST

CH01 - CH11 for IEEE 802.11b, IEEE 802.11g, IEEE 802.11n HT20, IEEE 802.11ax HE20 CH03 – CH9 for IEEE 802.11n HT40, IEEE 802.11ax HE40							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

2.6 TEST OPERATION MODE

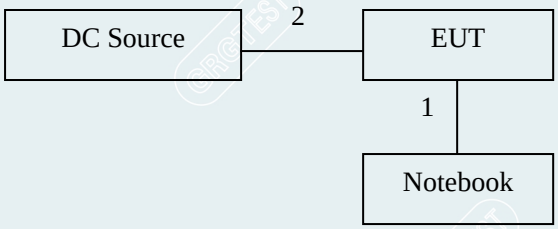
Mode No.	Description of the modes
1	2.4G Wi-Fi TX mode

2.7 LOCAL SUPPORTIVE INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Note
Notebook	LENOVO	TianYi 310-14ISK	MP18DLC6	/
DC Source	Keysight	E36131A	/	/

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	USB to USB cable	1	No	0	1.0m
2	DC cable	1	No	0	1.2m

2.8 CONFIGURATION OF SYSTEM UNDER TEST



Test software:

Software version
QRCT.win.4.0

Power Setting:

Mode	Date Rate	Frequency (MHz)	Power Setting (antenna1 & antenna2)
802.11b	1M	2412	21
		2437	21
		2462	21
802.11g	6M	2412	22
		2437	22
		2462	22
802.11n HT20	MCS8	2412	19.5
		2437	19.5
		2462	19.5
802.11n HT40	MCS8	2422	19
		2437	19
		2452	19
802.11ax HE20	MCS0	2412	19
		2437	19
		2462	19
802.11ax HE40	MCS0	2422	19
		2437	19
		2452	19

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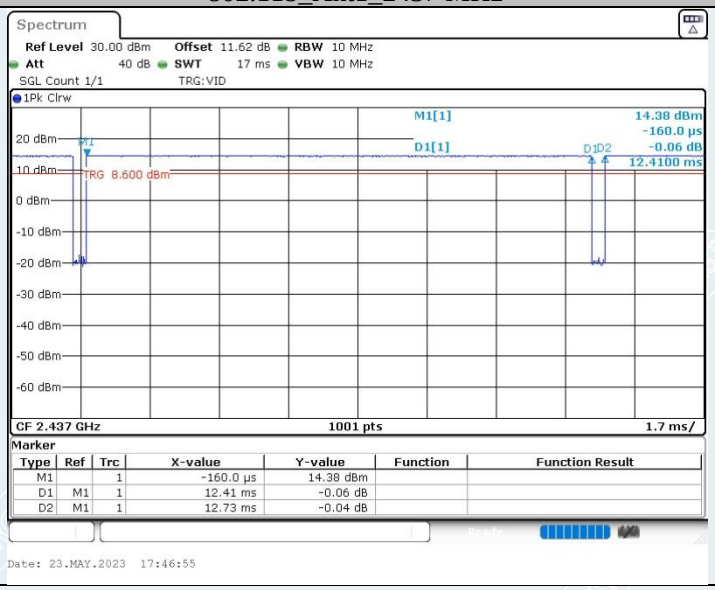
2.9 DUTY CYCLE

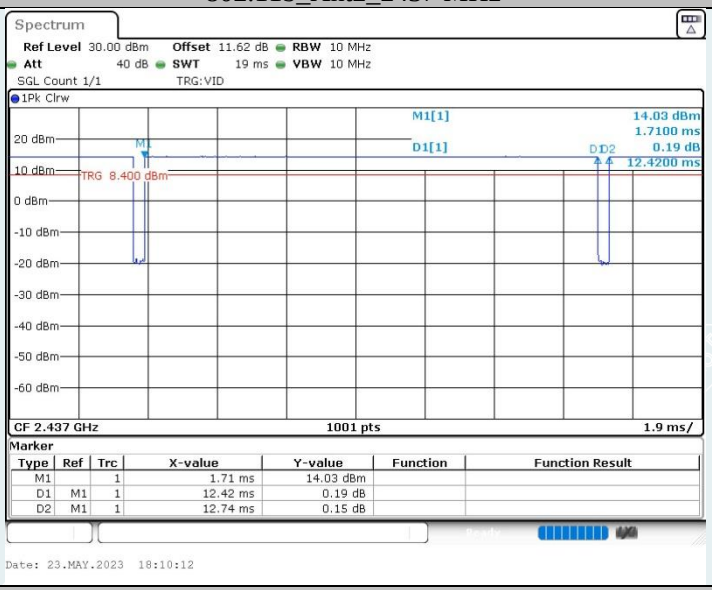
EUT Name	BYD Di5.0F	Model	MTCA05
Environmental Conditions	25.8℃/62%RH/101.0kPa	Test Voltage	DC 12V
Tested By	Qing Tingting	Tested Date	2023-05-23~2023-05-25

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	T(s)
802.11b	Ant1	2437	12.41	12.73	97.49	0.01241
	Ant2	2437	12.42	12.74	97.49	0.01242
802.11g	Ant1	2437	1.98	2.30	86.09	0.00198
	Ant2	2437	1.97	2.40	82.08	0.00197
802.11n HT20	Ant1	2437	5.43	5.76	94.27	0.00543
	Ant2	2437	5.43	5.88	92.35	0.00543
802.11n HT40	Ant1	2437	5.43	5.78	93.94	0.00543
	Ant2	2437	5.43	5.77	94.11	0.00543
802.11ax HE20	Ant1	2437	5.44	5.78	94.12	0.00544
	Ant2	2437	5.45	5.79	94.13	0.00545
802.11ax HE40	Ant1	2437	5.44	5.78	94.12	0.00544
	Ant2	2437	5.44	5.78	94.12	0.00544

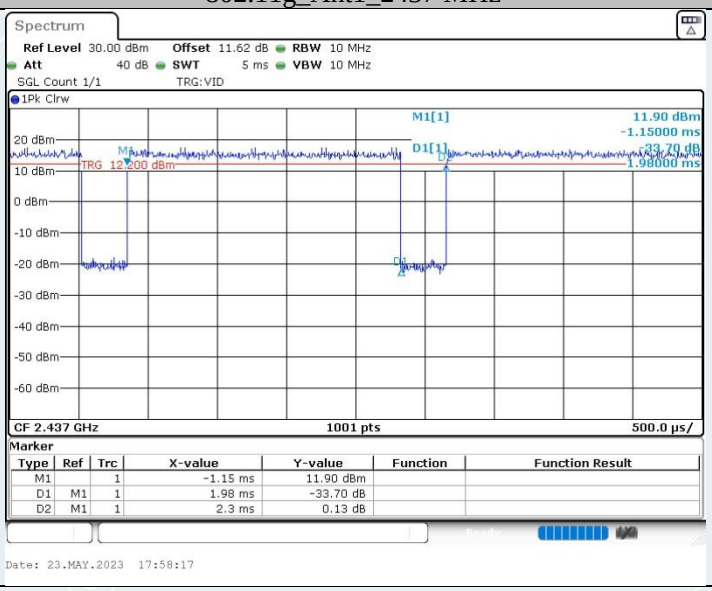
802.11b_Ant1_2437 MHz



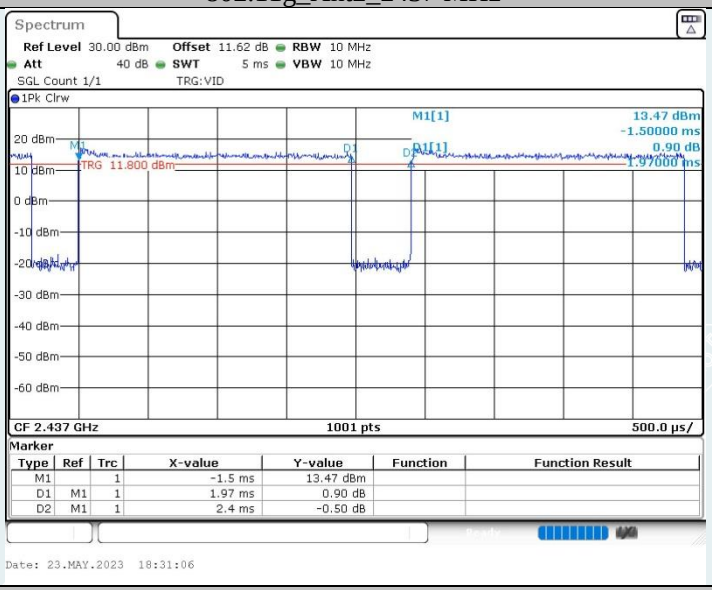
802.11b_Ant2_2437 MHz



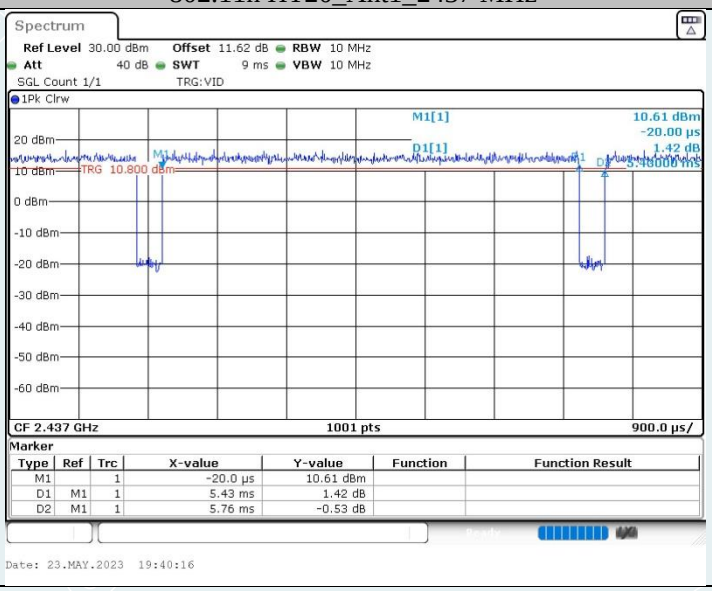
802.11g_Ant1_2437 MHz



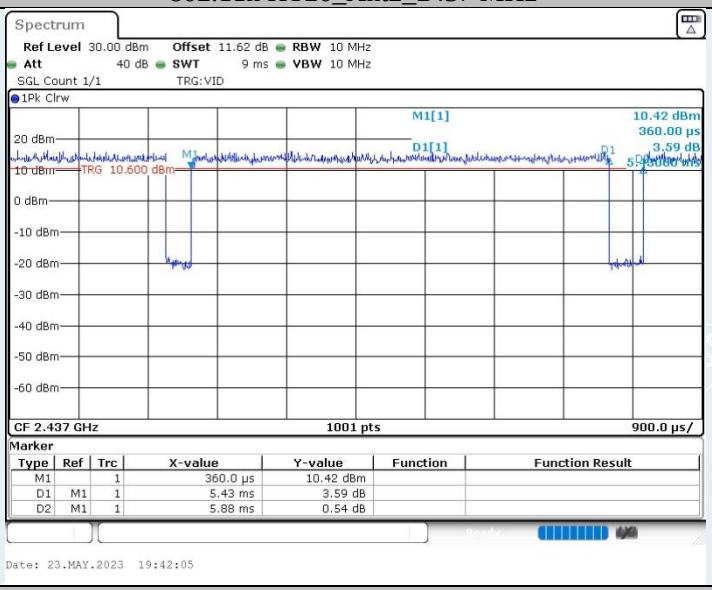
802.11g_Ant2_2437 MHz



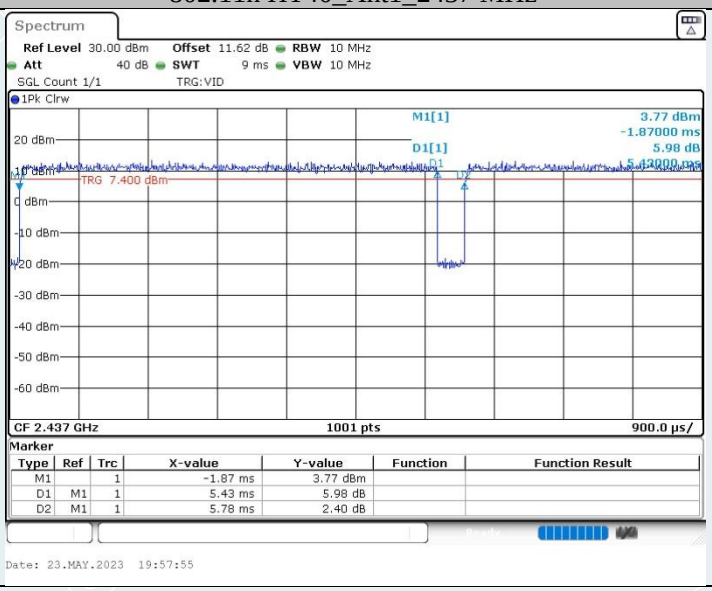
802.11n HT20_Ant1_2437 MHz



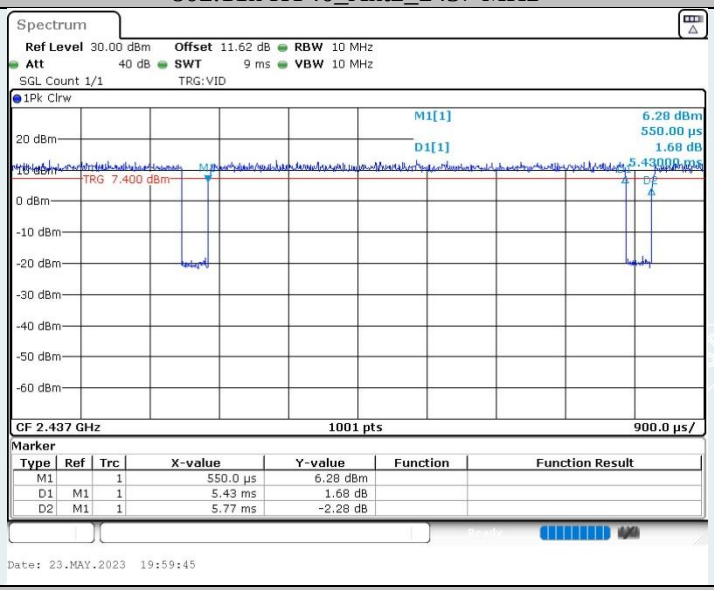
802.11n HT20_Ant2_2437 MHz



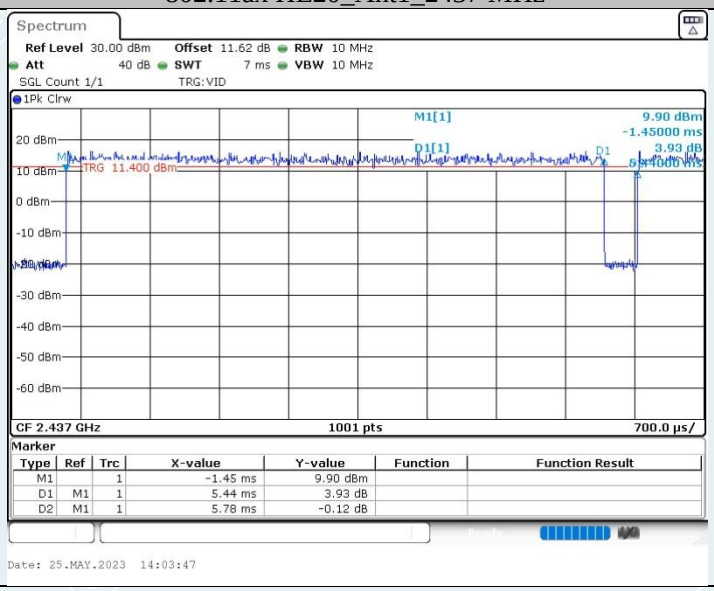
802.11n HT40_Ant1_2437 MHz



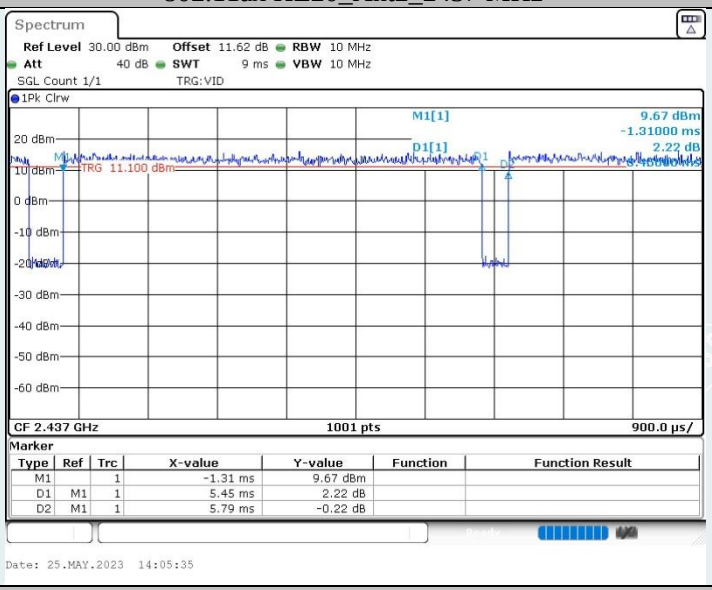
802.11n HT40_Ant2_2437 MHz



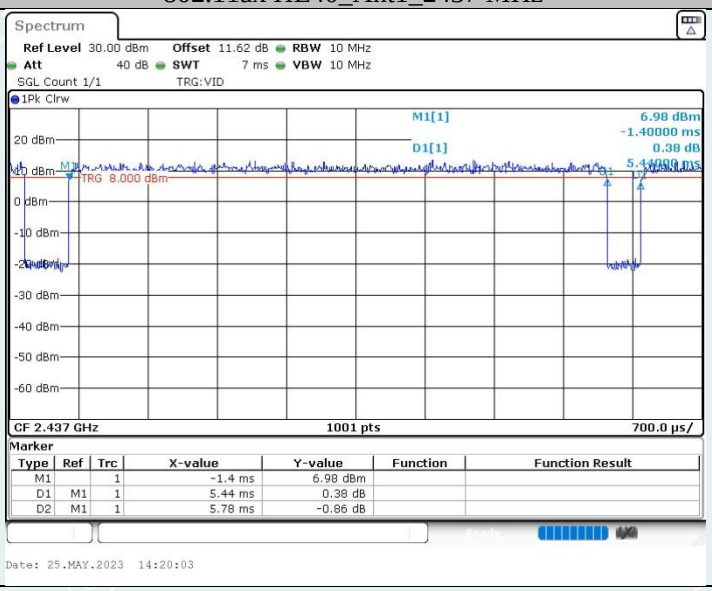
802.11ax HE20_Ant1_2437 MHz



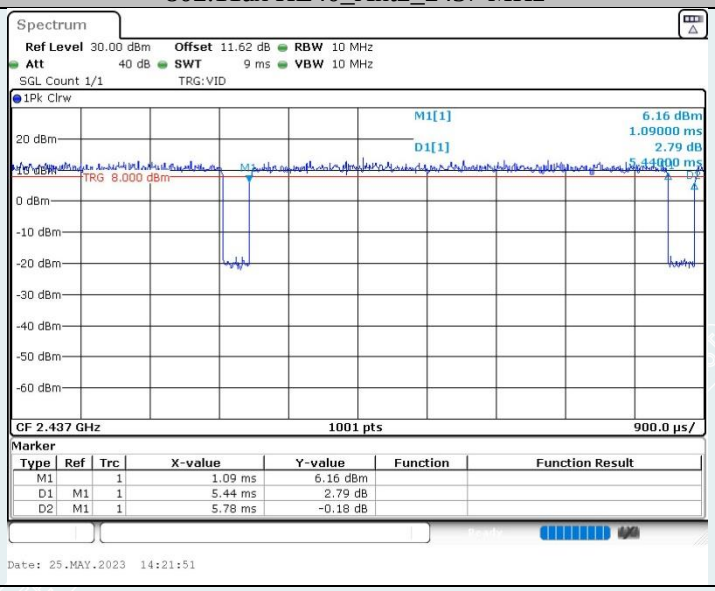
802.11ax HE20_Ant2_2437 MHz



802.11ax HE40_Ant1_2437 MHz



802.11ax HE40_Ant2_2437 MHz



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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

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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～200MHz	4.30dB
		200MHz~1000MHz	5.60dB
		1GHz～18GHz	3.65dB
		18GHz～26.5GHz	4.00dB
	Vertical	9kHz～30MHz	4.46dB
		30MHz～200MHz	4.30dB
		200MHz~1000MHz	5.60dB
		1GHz～18GHz	3.65dB
		18GHz～26.5GHz	4.00dB

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.78 dB
Power spectral density	0.78 dB
Occupied channel bandwidth	0.4 dB
Unwanted emission, conducted	0.68 dB
Humidity	6 %
Temperature	2℃

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

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4. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Radiated Spurious Emission&Restricted bands of operation				
Test S/W	EZ	CCS-2ANT	/	/
Loop Antenna	TESEQ	HLA6121	52599	2024-02-03
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
Board-Band Horn Antenna	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 ELECTRONIC	DLNA-1G18G-G40	20200928005	2023-08-27
Test S/W	Tonscend	JS32-RE/2.5.2.4		
6 dB Bandwidth				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Simultaneous sampling DAQ	TONSCEND	JS0806-2	186060020	2023-07-24
Output Power				
Pulse power sensor	Anritsu	MA2411B	1126150	2024-02-12
Power meter	Anritsu	ML2495A	1204003	2024-02-12
Conducted band edges and Spurious Emission				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Simultaneous sampling DAQ	TONSCEND	JS0806-2	186060020	2023-07-24
Power Spectral Density				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Simultaneous sampling DAQ	TONSCEND	JS0806-2	186060020	2023-07-24

Note: The calibration interval of the above test instruments is 12 months except Bi-log Antenna, The calibration interval of the Bi-log Antenna is 24 months.

5. RADIATED SPURIOUS EMISSIONS

5.1 LIMITS

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required.

Frequency (MHz)	Quasi-peak(μV/m)	Measurement distance(m)	Quasi-peak(dBμV/m)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30~88	100	3	40
88~216	150	3	43.5
216~960	200	3	46
Above 960	500	3	54

NOTE:

(1) The emission limits for the ranges 9-90kHz and 110-490kHz are based on measurements employing a linear average detector.

(2) The lower limit shall apply at the transition frequencies.

(3) Above 18GHz test distance is 1m, so the Peak Limit=74+20*log(3/1)=83.54 (dBμV/m).
The Avg Limit=54+20*log(3/1)=63.54 (dBμV/m).

5.2 TEST PROCEDURES

1) Sequence of testing 9kHz to 30MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.

--- The EUT is placed on a desktop position in the center of the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0 °to 360 °.

--- The antenna height is 1.0 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0 °to 360 °) and by rotating the elevation axes (0 °to 360 °).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QP detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30MHz to 1GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.

--- The EUT is placed on a desktop position in the center of the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0 °to 360 °.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 4 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1GHz to 18GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.

--- The EUT is placed on a desktop position in the center of the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0 °to 360 °.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 4 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18GHz
Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Use serial board or connecting line to make EUT and notebook to communicate, according to the actual need to make EUT send constant frequency signal continuously.

--- The EUT is placed on a desktop position in the center of the turntable.

--- The measurement distance is 1 meter.

--- The EUT was set into operation.

Pre measurement:

--- The pre measurement distance is 1 meter.

--- The turntable rotates from 0 °to 360 °.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 4 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak detector.

--- The final measurement distance is 3 meter.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

NOTE:

(a).The frequency from 9kHz to 150kHz, Set RBW=300Hz(for Peak&AVG), RBW=300Hz(for Peak&AVG).

the frequency from 150kHz to 30MHz, Set RBW=9kHz, RBW=9kHz,(for QP Detector).

(b).The frequency from 30MHz to 1GHz, Set RBW=120kHz, RBW=300kHz,(for QP Detector).

(c).The frequency above 1GHz, for Peak detector: Set RBW=1MHz, RBW=3MHz.

(d).The frequency above 1GHz, for Avg detector: Set RBW=1MHz, if the EUT is configured to transmit with duty cycle ≥98%，set VBW≤RBW/100 (i.e.,10kHz) but not less than 10Hz. if the EUT duty cycle is ＜98%，set VBW≥1/T, Where T is defined in section 2.9.

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5.3 TEST SETUP

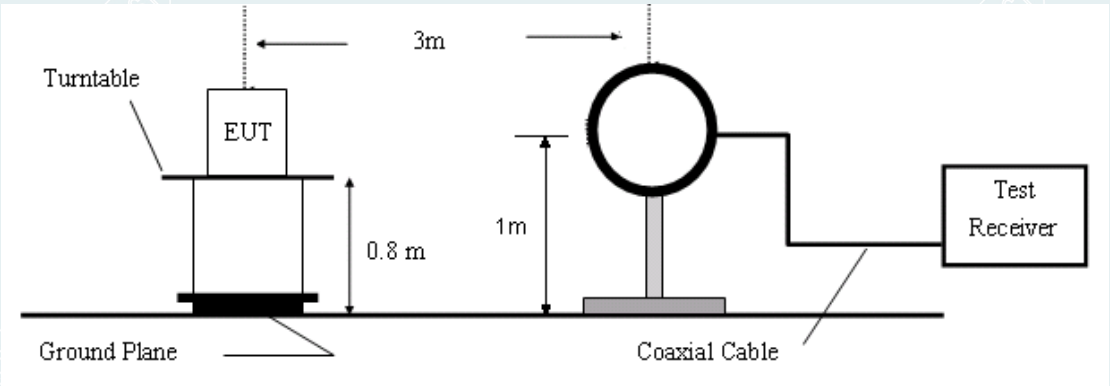


Figure 1. 9kHz to 30MHz radiated emissions test configuration

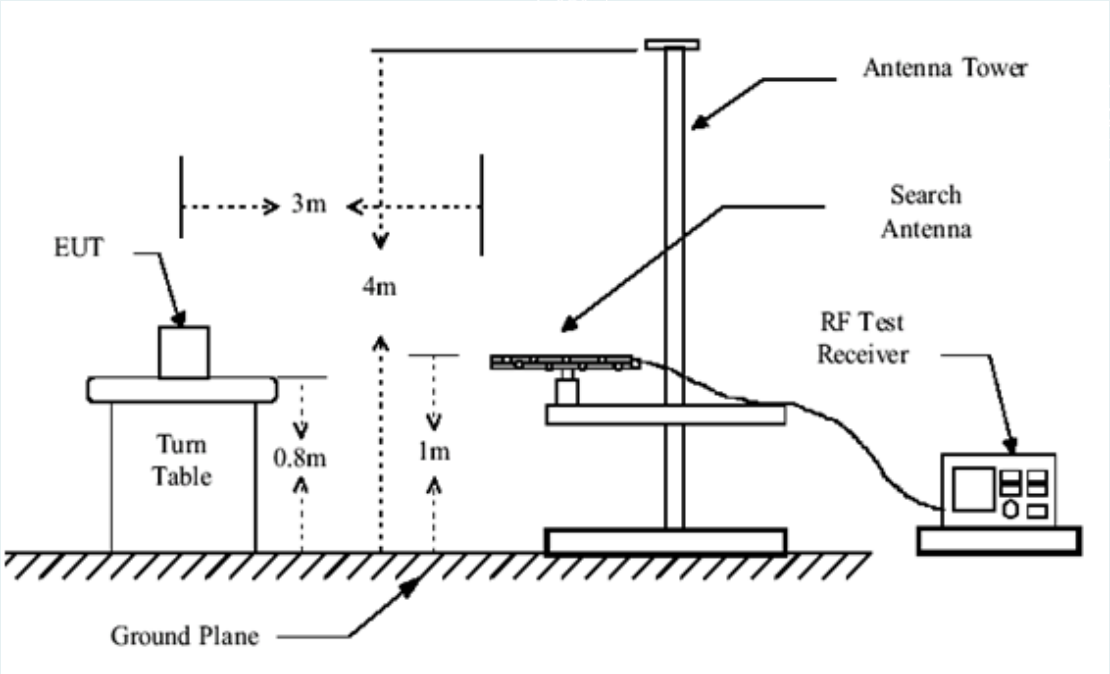


Figure 2. 30MHz to 1GHz radiated emissions test configuration

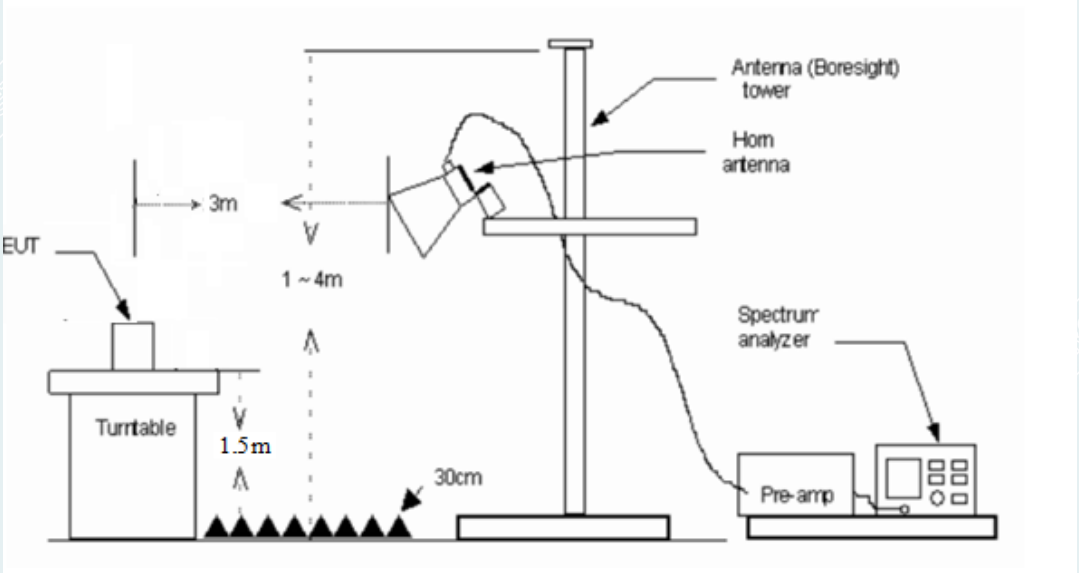


Figure 3. 1GHz to 18GHz radiated emissions test configuration

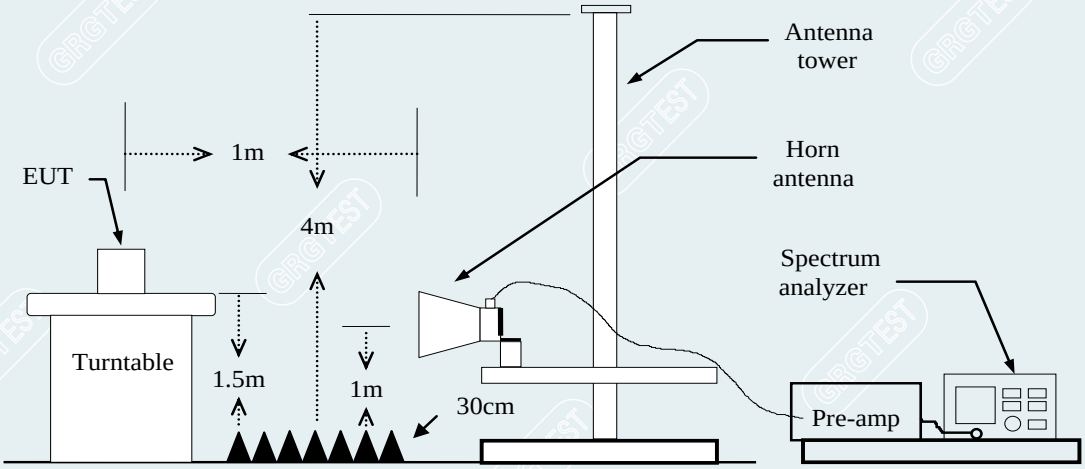


Figure 4.18GHz to 26.5GHz radiated emissions test configuration

5.4 DATA SAMPLE

30MHz to 1GHz

No.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
xxx	XXXX	63.53	36.38	-27.15	43.50	7.12	0	100	Horizontal

Frequency (MHz) = Emission frequency in MHz

Reading (dBuV/m) = Uncorrected Analyzer / Receiver reading

Level (dBuV/m) = Reading (dBuV) + Factor (dB)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Limit(dBuV/m) – Level (dBuV/m)

Polarity = Antenna polarization

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) = Antenna factor + Cable loss – Amplifier gain

Level (dBuV/m) = Reading (dBuV/m) + Factor (dB)

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 ----------

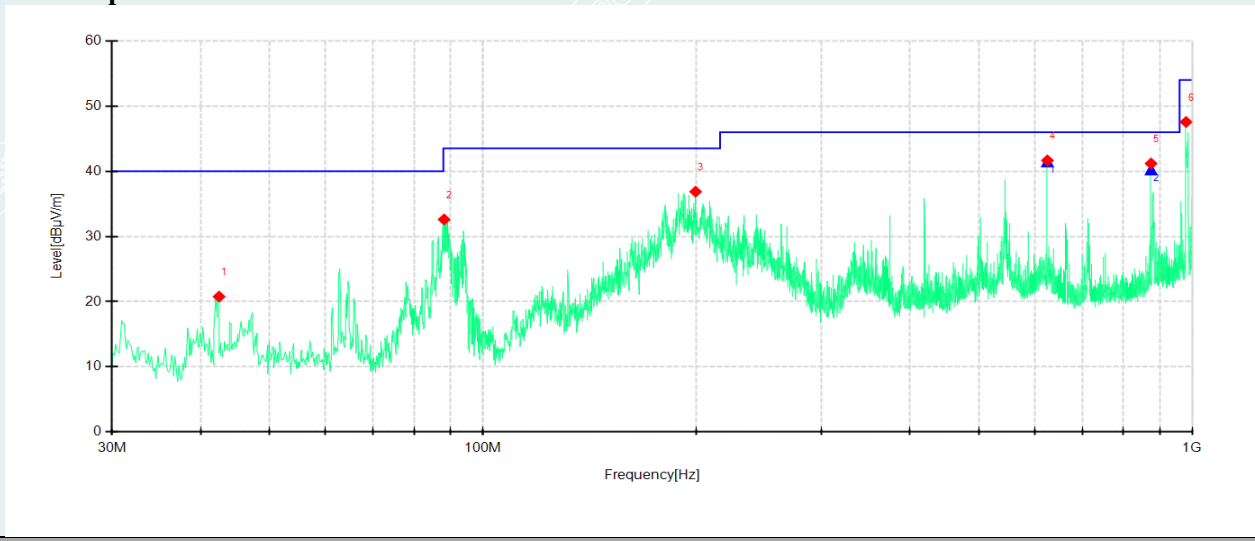
5.5 TEST RESULTS

Below 1GHz

All models were pretested and only the worst modes and channels were recorded in this report. (IEEE 802.11b 2412MHz Ant 1)

EUT Name	BYD Di5.0F	**Model**	MTCA05
Environmental Conditions	22.6℃/65%RH/101.0kPa	**Test Voltage**	DC 12V
Test Mode	IEEE 802.11b Frequency (2412MHz)	**Polarity**	Horizontal
Tested By	Zhang Zishan	**Tested Date**	2023-05-26

Test Graph

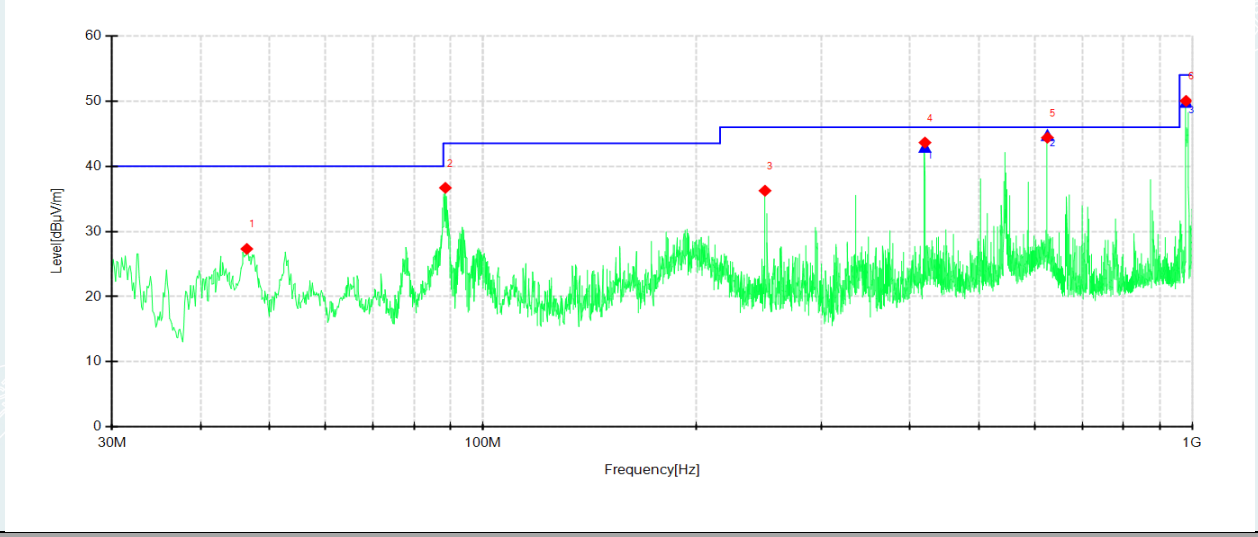


Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.490	51.47	20.77	-30.70	40.00	19.23	200	106	Horizontal
2	88.207	68.36	32.60	-35.76	43.50	10.90	200	16	Horizontal
3	199.528	71.07	36.87	-34.20	43.50	6.63	100	142	Horizontal
4	625.048	63.65	41.66	-21.99	46.00	4.34	100	13	Horizontal
5	875.096	59.98	41.18	-18.80	46.00	4.82	100	253	Horizontal
6	875.096	54.85	36.05	-18.80	46.00	9.95	100	140	Horizontal

Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	625.011	-21.99	63.47	41.48	46.00	4.52	108	17.2	Horizontal
2	875.0204	-18.80	59.04	40.24	46.00	5.76	164	258	Horizontal

EUT Name	BYD Di5.0F	Model	MTCA05
Environmental Conditions	22.6℃/65%RH/101.0kPa	Test Voltage	DC 12V
Test Mode	IEEE 802.11b Frequency (2412MHz)	Polarity	Horizontal
Tested By	Zhang Zishan	Tested Date	2023-05-26

Test Graph



Suspected Data List

NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.492	58.01	27.32	-30.69	40.00	12.68	100	55	Vertical
2	88.571	72.45	36.69	-35.76	43.50	6.81	100	124	Vertical
3	249.974	68.32	36.25	-32.07	46.00	9.75	100	254	Vertical
4	420.110	70.24	43.63	-26.61	46.00	2.37	100	64	Vertical
5	625.048	66.37	44.38	-21.99	46.00	1.62	100	215	Vertical
6	980.233	68.18	50.02	-18.16	54.00	3.98	100	15	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBµV/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	419.9884	-26.61	69.55	42.94	46.00	3.06	101	60.8	Vertical
2	625.020	-21.99	66.74	44.75	46.00	1.25	100	212.4	Vertical
3	980.162	-18.16	68.02	49.86	54.00	4.14	113	5.4	Vertical

Remark:

1 No emission found between lowest internal used/generated frequency to 30MHz.

2 Radiated emissions measured in frequency range from 9 kHz 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:

Mode: IEEE 802.11b ANT1
Lowest Frequency (2412MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-19
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1198.8	74.48	51.70	-22.78	74.00	22.30	200	167	Horizontal
2	2410.4	65.38	47.98	-17.40	74.00	26.02	100	206	Horizontal
3	3321	62.82	46.56	-16.26	74.00	27.44	100	134	Horizontal
4	4999.5	63.53	52.96	-10.57	74.00	21.04	200	160	Horizontal
5	9858	48.49	48.89	0.40	74.00	25.11	200	49	Horizontal
6	15598.5	43.60	52.05	8.45	74.00	21.95	100	254	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	1199.962	-22.78	55.93	33.15	54.00	20.85	111	208.3	Horizontal
2	4999.9345	-10.57	52.71	42.14	54.00	11.86	200	188.7	Horizontal
3	15598.5	8.45	34.51	42.96	54.00	11.04	100	254	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	1195.6	75.01	52.13	-22.88	74.00	21.87	200	360	Vertical
2	1663.8	69.43	47.03	-22.40	74.00	26.97	200	218	Vertical
3	2409.2	65.45	48.55	-16.90	74.00	25.45	100	210	Vertical
4	3327	64.01	48.23	-15.78	74.00	25.77	100	131	Vertical
5	4999.5	63.61	52.84	-10.77	74.00	21.16	200	160	Vertical
6	14539.5	45.85	52.23	6.38	74.00	21.77	100	29	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	1199.285	-22.88	62.78	39.90	54.00	14.10	200	0	Vertical
2	5000.2235	-10.77	61.11	50.34	54.00	3.66	145	163	Vertical
3	14539.5	6.38	36.25	42.63	54.00	11.37	100	29	Vertical

Mode: IEEE 802.11b ANT1
Middle Frequency (2437MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-19
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1197.6	71.04	48.26	-22.78	74.00	25.74	100	175	Horizontal
2	1664.8	68.16	46.55	-21.61	74.00	27.45	200	77	Horizontal
3	2434.8	67.67	50.68	-16.99	74.00	23.32	100	347	Horizontal
4	4999.5	58.89	48.32	-10.57	74.00	25.68	200	202	Horizontal
5	6000	55.69	47.38	-8.31	74.00	26.62	200	152	Horizontal
6	15700.5	44.92	51.84	6.92	74.00	22.16	200	121	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	2434.765	-16.99	63.51	46.52	54.00	7.48	142	17	Horizontal
2	15700.5	6.92	35.25	42.17	54.00	11.83	200	121	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	1194.4	71.90	49.00	-22.90	74.00	25.00	200	16	Vertical
2	1664.4	69.48	47.08	-22.40	74.00	26.92	100	178	Vertical
3	2434.4	67.02	50.60	-16.42	74.00	23.40	200	86	Vertical
4	3322.5	62.03	46.19	-15.84	74.00	27.81	100	120	Vertical
5	4999.5	63.07	52.30	-10.77	74.00	21.70	200	162	Vertical
6	15069	44.32	51.19	6.87	74.00	22.81	100	283	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	1197.632	-22.90	58.00	35.10	54.00	18.90	165	15.8	Vertical
2	2434.717	-16.42	63.68	47.26	54.00	6.74	165	86.6	Vertical
3	5000.1515	-10.77	59.16	48.39	54.00	5.61	138	164.6	Vertical
4	15069	6.87	35.69	42.56	54.00	11.44	100	283	Vertical

Mode: IEEE 802.11b ANT1
Highest Frequency (2462MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-19
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1199.4	71.54	48.76	-22.78	74.00	25.24	200	279	Horizontal
2	1660.4	67.71	46.09	-21.62	74.00	27.91	100	55	Horizontal
3	2305	62.88	45.57	-17.31	74.00	28.43	100	105	Horizontal
4	4999.5	57.50	46.93	-10.57	74.00	27.07	200	194	Horizontal
5	6000	54.88	46.57	-8.31	74.00	27.43	200	93	Horizontal
6	15652.5	44.65	52.54	7.89	74.00	21.46	200	164	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	1199.4	-22.78	60.36	37.58	54.00	16.42	200	279	Horizontal
2	15652.5	7.89	33.69	41.58	54.00	12.42	200	164	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	1199.4	76.33	53.54	-22.79	74.00	20.46	200	14	Vertical
2	1666.2	71.22	48.82	-22.40	74.00	25.18	200	230	Vertical
3	3330	61.70	45.97	-15.73	74.00	28.03	100	130	Vertical
4	4999.5	63.67	52.90	-10.77	74.00	21.10	200	161	Vertical
5	10425	48.77	50.30	1.53	74.00	23.70	200	2	Vertical
6	13849.5	44.67	51.11	6.44	74.00	22.89	100	151	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	1196.987	-22.79	58.44	35.65	54.00	18.35	159	16.4	Vertical
2	5000.0065	-10.77	56.89	46.12	54.00	7.88	180	132.5	Vertical
3	13849.5	6.44	35.26	41.70	54.00	12.30	100	151	Vertical

Mode: IEEE 802.11b ANT2
Lowest Frequency (2412MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-19
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1195	71.85	49.08	-22.77	74.00	24.92	100	36	Horizontal
2	1664.4	69.24	47.63	-21.61	74.00	26.37	200	76	Horizontal
3	2409.4	64.62	47.21	-17.41	74.00	26.79	100	221	Horizontal
4	4999.5	59.18	48.61	-10.57	74.00	25.39	200	194	Horizontal
5	10501.5	48.12	49.35	1.23	74.00	24.65	200	325	Horizontal
6	15631.5	43.99	52.13	8.14	74.00	21.87	200	133	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	1195	-22.77	60.24	37.47	54.00	16.53	100	36	Horizontal
2	4999.5	-10.57	55.24	44.67	54.00	9.33	200	194	Horizontal
3	15631.5	8.14	36.32	44.46	54.00	9.54	200	133	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	1196	71.42	48.55	-22.87	74.00	25.45	200	351	Vertical
2	1664	69.53	47.13	-22.40	74.00	26.87	200	240	Vertical
3	2409.4	65.70	48.81	-16.89	74.00	25.19	200	219	Vertical
4	4999.5	63.06	52.29	-10.77	74.00	21.71	200	162	Vertical
5	10557	47.84	49.98	2.14	74.00	24.02	100	20	Vertical
6	13864.5	44.95	51.33	6.38	74.00	22.67	200	111	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	1196	-22.87	61.47	38.60	54.00	15.40	200	351	Vertical
2	5000.2235	-10.77	59.69	48.92	54.00	5.08	146	163.4	Vertical
3	13864.5	6.38	36.21	42.59	54.00	11.41	200	111	Vertical

Mode: IEEE 802.11b ANT2
Middle Frequency (2437MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-19
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1197.6	70.77	47.99	-22.78	74.00	26.01	200	269	Horizontal
2	1663.6	69.03	47.42	-21.61	74.00	26.58	200	76	Horizontal
3	2435	65.03	48.05	-16.98	74.00	25.95	200	208	Horizontal
4	4999.5	58.60	48.03	-10.57	74.00	25.97	100	181	Horizontal
5	9696	48.47	48.24	-0.23	74.00	25.76	100	131	Horizontal
6	15624	43.85	52.07	8.22	74.00	21.93	100	304	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	4999.5	-10.57	55.26	44.69	54.00	9.31	100	181	Horizontal
2	15624	8.22	36.24	44.46	54.00	9.54	100	304	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	1199.2	75.99	53.19	-22.80	74.00	20.81	200	16	Vertical
2	1660.2	70.12	47.74	-22.38	74.00	26.26	200	218	Vertical
3	2655	63.86	46.35	-17.51	74.00	27.65	100	106	Vertical
4	3328.5	62.15	46.40	-15.75	74.00	27.60	100	122	Vertical
5	4999.5	62.70	51.93	-10.77	74.00	22.07	200	151	Vertical
6	15070.5	44.62	51.53	6.91	74.00	22.47	100	172	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	1197.812	-22.80	57.54	34.74	54.00	19.26	173	16.2	Vertical
2	5000.0785	-10.77	58.20	47.43	54.00	6.57	159	169.7	Vertical
3	15070.5	6.91	36.24	43.15	54.00	10.85	100	172	Vertical

Mode: IEEE 802.11b ANT2
Highest Frequency (2462MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-19
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1196.2	68.90	46.13	-22.77	74.00	27.87	100	88	Horizontal
2	1661.8	68.37	46.75	-21.62	74.00	27.25	200	76	Horizontal
3	2312.4	65.53	48.07	-17.46	74.00	25.93	100	107	Horizontal
4	4999.5	58.82	48.25	-10.57	74.00	25.75	200	192	Horizontal
5	11208	47.79	49.65	1.86	74.00	24.35	200	152	Horizontal
6	15618	43.90	52.18	8.28	74.00	21.82	200	61	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	4999.5	-10.57	56.36	45.79	54.00	8.21	200	192	Horizontal
2	15618	8.28	37.41	45.69	54.00	8.31	200	61	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	1164.6	71.20	47.65	-23.55	74.00	26.35	200	15	Vertical
2	1660.2	71.08	48.70	-22.38	74.00	25.30	200	227	Vertical
3	2654.2	64.01	46.51	-17.50	74.00	27.49	100	107	Vertical
4	3331.5	62.54	46.83	-15.71	74.00	27.17	100	121	Vertical
5	4999.5	63.04	52.27	-10.77	74.00	21.73	200	162	Vertical
6	13893	45.03	51.31	6.28	74.00	22.69	100	20	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	5000.0785	-10.77	58.94	48.17	54.00	5.83	138	164.3	Vertical
2	13893	6.28	36.39	42.67	54.00	11.33	100	20	Vertical

Mode: IEEE 802.11g ANT1
Lowest Frequency (2412MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1199	72.66	49.88	-22.78	74.00	24.12	100	136	Horizontal
2	1666.8	69.41	47.80	-21.61	74.00	26.20	200	77	Horizontal
3	2987.2	60.80	45.05	-15.75	74.00	28.95	200	137	Horizontal
4	4999.5	57.77	47.20	-10.57	74.00	26.80	200	192	Horizontal
5	6000	55.23	46.92	-8.31	74.00	27.08	200	234	Horizontal
6	16725	45.77	52.59	6.82	74.00	21.41	100	0	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	1199	-22.78	55.24	32.46	54.00	21.54	100	136	Horizontal
2	16725	6.82	35.24	42.06	54.00	11.94	100	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	1200	75.12	52.34	-22.78	74.00	21.66	200	359	Vertical
2	1663	70.31	47.92	-22.39	74.00	26.08	200	230	Vertical
3	2002	70.65	49.75	-20.90	74.00	24.25	200	109	Vertical
4	2659.8	63.62	46.11	-17.51	74.00	27.89	100	105	Vertical
5	4999.5	64.07	53.30	-10.77	74.00	20.70	200	152	Vertical
6	13852.5	45.34	51.77	6.43	74.00	22.23	200	60	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	1200	-22.78	54.25	31.47	54.00	22.53	200	359	Vertical
2	1998.263	-20.90	49.04	28.14	54.00	25.86	199	89	Vertical
3	5000.0065	-10.77	58.60	47.83	54.00	6.17	100	170.6	Vertical
4	13852.5	6.43	36.54	42.97	54.00	11.03	200	60	Vertical

Mode: IEEE 802.11g ANT1
Middle Frequency (2437MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1196.4	72.27	49.50	-22.77	74.00	24.50	100	45	Horizontal
2	1660.8	69.14	47.52	-21.62	74.00	26.48	200	75	Horizontal
3	2383.6	71.89	54.11	-17.78	74.00	19.89	200	86	Horizontal
4	4999.5	58.27	47.70	-10.57	74.00	26.30	200	193	Horizontal
5	8170.5	50.67	47.22	-3.45	74.00	26.78	200	193	Horizontal
6	13896	45.48	51.35	5.87	74.00	22.65	200	92	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	1196.4	-22.77	54.87	32.10	54.00	21.90	100	45	Horizontal
2	2384.221	-17.78	58.51	40.73	54.00	13.27	124	82.6	Horizontal
3	13896	5.87	34.57	40.44	54.00	13.56	200	92	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	1165.2	71.53	47.99	-23.54	74.00	26.01	200	17	Vertical
2	1665.6	70.09	47.69	-22.40	74.00	26.31	200	227	Vertical
3	3331.5	59.70	43.99	-15.71	74.00	30.01	100	12	Vertical
4	3991.5	58.23	43.34	-14.89	74.00	30.66	100	184	Vertical
5	4999.5	63.05	52.28	-10.77	74.00	21.72	100	174	Vertical
6	13450.5	43.72	50.68	6.96	74.00	23.32	200	314	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	5000.0785	-10.77	58.20	47.43	54.00	6.57	134	169.4	Vertical
2	13450.5	6.96	35.24	42.20	54.00	11.80	200	314	Vertical

Mode: IEEE 802.11g ANT1
Highest Frequency (2462MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1166	69.21	46.51	-22.70	74.00	27.49	100	46	Horizontal
2	1658.6	68.77	47.15	-21.62	74.00	26.85	200	76	Horizontal
3	2499	63.78	48.75	-15.03	74.00	25.25	100	36	Horizontal
4	4999.5	57.93	47.36	-10.57	74.00	26.64	200	201	Horizontal
5	6000	55.15	46.84	-8.31	74.00	27.16	200	150	Horizontal
6	15598.5	43.79	52.24	8.45	74.00	21.76	100	109	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	2499	-15.03	54.27	39.24	54.00	14.76	100	36	Horizontal
2	15598.5	8.45	35.55	44.00	54.00	10.00	100	109	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	1196	75.30	52.43	-22.87	74.00	21.57	200	15	Vertical
2	1660.8	70.34	47.96	-22.38	74.00	26.04	200	228	Vertical
3	1989.8	68.48	47.56	-20.92	74.00	26.44	200	97	Vertical
4	3330	61.30	45.57	-15.73	74.00	28.43	100	133	Vertical
5	4999.5	62.91	52.14	-10.77	74.00	21.86	200	160	Vertical
6	13848	45.28	51.69	6.41	74.00	22.31	200	344	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	1197.281	-22.87	58.22	35.35	54.00	18.65	167	17.2	Vertical
2	5000.0785	-10.77	59.42	48.65	54.00	5.35	144	162.6	Vertical
3	13848	6.41	34.27	40.68	54.00	13.32	200	344	Vertical

Mode: IEEE 802.11g ANT2
Lowest Frequency (2412MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1198.2	71.93	49.15	-22.78	74.00	24.85	100	107	Horizontal
2	1660.2	68.19	46.57	-21.62	74.00	27.43	100	57	Horizontal
3	2319.4	63.00	45.40	-17.60	74.00	28.60	100	127	Horizontal
4	2657.8	62.41	44.96	-17.45	74.00	29.04	200	289	Horizontal
5	4999.5	58.45	47.88	-10.57	74.00	26.12	200	192	Horizontal
6	13245	44.18	50.40	6.22	74.00	23.60	100	314	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	1198.2	-22.78	55.24	32.46	54.00	21.54	100	107	Horizontal
2	13245	6.22	34.21	40.43	54.00	13.57	100	314	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	1199.6	74.83	52.04	-22.79	74.00	21.96	200	359	Vertical
2	1663.2	70.04	47.65	-22.39	74.00	26.35	200	218	Vertical
3	3321	61.68	45.82	-15.86	74.00	28.18	100	120	Vertical
4	3982.5	60.78	46.01	-14.77	74.00	27.99	100	110	Vertical
5	4999.5	62.64	51.87	-10.77	74.00	22.13	200	151	Vertical
6	13473	44.79	51.25	6.46	74.00	22.75	100	223	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	1199.6	-22.79	61.25	38.46	54.00	15.54	200	359	Vertical
2	5000.1515	-10.77	58.05	47.28	54.00	6.72	100	170	Vertical
3	13473	6.46	36.32	42.78	54.00	11.22	100	223	Vertical

Mode: IEEE 802.11g ANT2
Middle Frequency (2437MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1198.8	71.09	48.31	-22.78	74.00	25.69	100	87	Horizontal
2	1660.8	68.55	46.93	-21.62	74.00	27.07	100	56	Horizontal
3	4314	56.26	42.81	-13.45	74.00	31.19	100	40	Horizontal
4	4999.5	58.17	47.60	-10.57	74.00	26.40	100	162	Horizontal
5	7926	51.64	47.82	-3.82	74.00	26.18	200	27	Horizontal
6	15613.5	43.71	52.04	8.33	74.00	21.96	200	69	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	1198.661	-22.78	55.38	32.60	54.00	21.40	162	45.7	Horizontal
2	15613.5	8.33	35.54	43.87	54.00	10.13	200	69	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	1197.4	75.46	52.62	-22.84	74.00	21.38	200	15	Vertical
2	1327.6	67.92	45.84	-22.08	74.00	28.16	200	146	Vertical
3	1663.4	69.14	46.75	-22.39	74.00	27.25	200	238	Vertical
4	2996.8	63.09	46.94	-16.15	74.00	27.06	100	188	Vertical
5	4999.5	63.25	52.48	-10.77	74.00	21.52	200	162	Vertical
6	15058.5	44.61	51.24	6.63	74.00	22.76	200	255	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	1197.469	-22.84	57.20	34.36	54.00	19.64	159	17.2	Vertical
2	5000.1515	-10.77	59.12	48.35	54.00	5.65	138	164.7	Vertical
3	15058.5	6.63	35.27	41.90	54.00	12.10	200	255	Vertical

Mode: IEEE 802.11g ANT2
Highest Frequency (2462MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Qiang

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1165	68.70	46.00	-22.70	74.00	28.00	200	46	Horizontal
2	1659.2	68.42	46.80	-21.62	74.00	27.20	100	139	Horizontal
3	1999.2	63.98	44.32	-19.66	74.00	29.68	100	117	Horizontal
4	2316.8	67.28	49.73	-17.55	74.00	24.27	100	117	Horizontal
5	4999.5	58.52	47.95	-10.57	74.00	26.05	100	174	Horizontal
6	15574.5	44.14	52.09	7.95	74.00	21.91	100	204	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	2315.627	-17.55	50.86	33.31	54.00	20.69	100	129.3	Horizontal
2	15574.5	7.95	34.47	42.42	54.00	11.58	100	204	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	1166.6	71.87	48.37	-23.50	74.00	25.63	200	16	Vertical
2	1664	69.51	47.11	-22.40	74.00	26.89	200	228	Vertical
3	1990.2	67.95	47.03	-20.92	74.00	26.97	200	107	Vertical
4	4999.5	63.25	52.48	-10.77	74.00	21.52	100	172	Vertical
5	6000	57.76	49.45	-8.31	74.00	24.55	100	252	Vertical
6	15036	45.70	51.95	6.25	74.00	22.05	100	50	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	1165.266	-23.50	54.45	30.95	54.00	23.05	200	16.6	Vertical
2	5000.0785	-10.77	58.78	48.01	54.00	5.99	122	174.5	Vertical
3	6000	-8.31	49.72	41.41	54.00	12.59	100	246.5	Vertical
4	15036	6.25	35.24	41.49	54.00	12.51	100	50	Vertical

Mode: IEEE 802.11n HT20
Lowest Frequency (2412MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1194.8	69.64	46.87	-22.77	74.00	27.13	200	148	Horizontal
2	1665	67.83	46.22	-21.61	74.00	27.78	200	76	Horizontal
3	2307	65.72	48.37	-17.35	74.00	25.63	100	118	Horizontal
4	4999.5	58.43	47.86	-10.57	74.00	26.14	100	182	Horizontal
5	6000	56.38	48.07	-8.31	74.00	25.93	200	233	Horizontal
6	15672	44.37	51.87	7.50	74.00	22.13	200	161	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	2313.644	-17.35	51.43	34.08	54.00	19.92	134	139.5	Horizontal
2	6000.087	-8.31	51.61	43.30	54.00	10.70	199	235.3	Horizontal
3	15675.4	7.50	32.85	40.35	54.00	13.65	159	151.8	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	1198.4	71.70	48.88	-22.82	74.00	25.12	200	25	Vertical
2	1665.4	70.02	47.62	-22.40	74.00	26.38	200	228	Vertical
3	2093.6	65.61	46.23	-19.38	74.00	27.77	100	319	Vertical
4	4999.5	62.82	52.05	-10.77	74.00	21.95	200	161	Vertical
5	6000	57.32	49.01	-8.31	74.00	24.99	100	243	Vertical
6	15607.5	44.22	51.49	7.27	74.00	22.51	200	172	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	1199.024	-22.82	56.70	33.88	54.00	20.12	192	169.5	Vertical
2	5000.1515	-10.77	59.09	48.32	54.00	5.68	159	158.8	Vertical
3	6000	-8.31	52.86	44.55	54.00	9.45	100	277.9	Vertical
4	15607.5	7.27	35.54	42.81	54.00	11.19	200	172	Vertical

Mode: IEEE 802.11n HT20
Middle Frequency (2437MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1196.2	71.75	48.98	-22.77	74.00	25.02	100	97	Horizontal
2	1665.4	68.89	47.28	-21.61	74.00	26.72	200	76	Horizontal
3	2308	65.71	48.34	-17.37	74.00	25.66	100	118	Horizontal
4	4999.5	57.99	47.42	-10.57	74.00	26.58	200	203	Horizontal
5	6000	57.30	48.99	-8.31	74.00	25.01	200	234	Horizontal
6	15610.5	44.20	52.57	8.37	74.00	21.43	200	132	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	1199.247	-22.77	56.18	33.41	54.00	20.59	101	100.2	Horizontal
2	2304.961	-17.37	50.96	33.59	54.00	20.41	162	153	Horizontal
3	6000.087	-8.31	50.41	42.10	54.00	11.90	200	236.5	Horizontal
4	15672.3975	8.37	32.85	41.22	54.00	12.78	166	112.7	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	1196.6	71.98	49.13	-22.85	74.00	24.87	100	178	Vertical
2	1659.4	71.37	48.99	-22.38	74.00	25.01	200	228	Vertical
3	1997.4	69.76	48.82	-20.94	74.00	25.18	200	137	Vertical
4	3322.5	60.98	45.14	-15.84	74.00	28.86	100	123	Vertical
5	4999.5	63.00	52.23	-10.77	74.00	21.77	200	152	Vertical
6	13879.5	45.40	51.73	6.33	74.00	22.27	200	50	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	1196.029	-22.85	53.85	31.00	54.00	23.00	100	179.9	Vertical
2	1663.122	-22.38	54.76	32.38	54.00	21.62	200	231	Vertical
3	1995.261	-20.94	49.50	28.56	54.00	25.44	106	166.5	Vertical
4	5000.2235	-10.77	58.37	47.60	54.00	6.40	145	155.8	Vertical
5	13854.1925	6.33	32.70	39.03	54.00	14.97	173	69.5	Vertical

Mode: IEEE 802.11n HT20
Highest Frequency (2462MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1195.2	68.83	46.06	-22.77	74.00	27.94	100	218	Horizontal
2	1661.2	68.50	46.88	-21.62	74.00	27.12	100	136	Horizontal
3	2503.8	62.50	47.36	-15.14	74.00	26.64	100	36	Horizontal
4	4999.5	58.55	47.98	-10.57	74.00	26.02	100	152	Horizontal
5	6000	55.72	47.41	-8.31	74.00	26.59	100	214	Horizontal
6	15597	43.75	52.17	8.42	74.00	21.83	100	224	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	15672.385	8.42	32.90	41.32	54.00	12.68	100	258.7	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	1163.6	72.35	48.78	-23.57	74.00	25.22	200	15	Vertical
2	1196.8	71.93	49.08	-22.85	74.00	24.92	100	167	Vertical
3	1659.6	70.10	47.72	-22.38	74.00	26.28	200	228	Vertical
4	2094	66.98	47.60	-19.38	74.00	26.40	100	308	Vertical
5	4999.5	63.28	52.51	-10.77	74.00	21.49	200	162	Vertical
6	13971	45.00	51.13	6.13	74.00	22.87	100	8	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	1163.28	-23.57	55.32	31.75	54.00	22.25	200	16.3	Vertical
2	1198.393	-22.85	56.96	34.11	54.00	19.89	115	162	Vertical
3	5000.0785	-10.77	59.34	48.57	54.00	5.43	139	164.8	Vertical
4	13959.075	6.13	32.44	38.57	54.00	15.43	100	105.9	Vertical

Mode: IEEE 802.11n HT40
Lowest Frequency (2422MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1199	71.04	48.26	-22.78	74.00	25.74	200	96	Horizontal
2	1663	68.13	46.52	-21.61	74.00	27.48	200	76	Horizontal
3	2379	71.35	53.51	-17.84	74.00	20.49	100	26	Horizontal
4	4999.5	58.37	47.80	-10.57	74.00	26.20	200	194	Horizontal
5	6000	56.22	47.91	-8.31	74.00	26.09	200	232	Horizontal
6	12850.5	46.53	51.88	5.35	74.00	22.12	100	345	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	1197.109	-22.78	52.70	29.92	54.00	24.08	193	124.3	Horizontal
2	1663.939	-21.61	53.18	31.57	54.00	22.43	186	73.6	Horizontal
3	2379	-17.84	59.08	41.24	54.00	12.76	112	30.7	Horizontal
4	12851.4275	5.35	32.90	38.25	54.00	15.75	121	349.6	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	1164.4	70.97	47.42	-23.55	74.00	26.58	200	16	Vertical
2	1199	72.60	49.80	-22.80	74.00	24.20	100	177	Vertical
3	1663.4	71.37	48.98	-22.39	74.00	25.02	200	231	Vertical
4	2384.6	66.62	49.23	-17.39	74.00	24.77	100	188	Vertical
5	4999.5	63.01	52.24	-10.77	74.00	21.76	200	164	Vertical
6	13858.5	45.18	51.59	6.41	74.00	22.41	100	1	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	1198.271	-22.80	58.13	35.33	54.00	18.67	200	172.2	Vertical
2	1663.448	-22.39	54.79	32.40	54.00	21.60	200	224.4	Vertical
3	2383.254	-17.39	54.34	36.95	54.00	17.05	120	193.6	Vertical
4	5000.1515	-10.77	58.84	48.07	54.00	5.93	145	161.7	Vertical
5	13858.0975	6.41	32.81	39.22	54.00	14.78	100	281.7	Vertical

Mode: IEEE 802.11n HT40
Middle Frequency (2437MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162	69.00	46.31	-22.69	74.00	27.69	100	44	Horizontal
2	1198.2	69.71	46.93	-22.78	74.00	27.07	100	116	Horizontal
3	1661.4	69.08	47.46	-21.62	74.00	26.54	200	77	Horizontal
4	2498	64.38	49.32	-15.06	74.00	24.68	100	35	Horizontal
5	4999.5	57.56	46.99	-10.57	74.00	27.01	200	203	Horizontal
6	15717	45.88	52.65	6.77	74.00	21.35	100	1	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	2498.94	-15.06	52.25	37.19	54.00	16.81	155	36	Horizontal
2	15675.835	6.77	32.89	39.66	54.00	14.34	141	148.5	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	1162.2	71.84	48.24	-23.60	74.00	25.76	200	16	Vertical
2	1195.8	74.78	51.91	-22.87	74.00	22.09	200	16	Vertical
3	1666	71.09	48.69	-22.40	74.00	25.31	200	229	Vertical
4	1997.8	70.29	49.34	-20.95	74.00	24.66	100	108	Vertical
5	4999.5	63.35	52.58	-10.77	74.00	21.42	100	171	Vertical
6	13972.5	45.56	51.68	6.12	74.00	22.32	100	242	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	1164.757	-23.60	54.56	30.96	54.00	23.04	200	15.7	Vertical
2	1196.7	-22.87	61.23	38.36	54.00	15.64	167	16.8	Vertical
3	1662.793	-22.40	54.38	31.98	54.00	22.02	200	233.5	Vertical
4	1991.642	-20.95	50.02	29.07	54.00	24.93	168	136	Vertical
5	5000.0065	-10.77	58.88	48.11	54.00	5.89	123	172.6	Vertical
6	13954.0975	6.12	32.17	38.29	54.00	15.71	135	244.7	Vertical

Mode: IEEE 802.11n HT40
Highest Frequency (2452MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1200	70.32	47.54	-22.78	74.00	26.46	200	132	Horizontal
2	1660.6	68.87	47.25	-21.62	74.00	26.75	200	71	Horizontal
3	2496.6	71.07	55.96	-15.11	74.00	18.04	100	40	Horizontal
4	4999.5	59.63	49.06	-10.57	74.00	24.94	100	179	Horizontal
5	6000	57.48	49.17	-8.31	74.00	24.83	200	158	Horizontal
6	15582	43.59	51.70	8.11	74.00	22.30	200	148	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	2497.07	-15.11	59.32	44.21	54.00	9.79	156	34.9	Horizontal
2	5000.1515	-10.57	53.75	43.18	54.00	10.82	121	181.9	Horizontal
3	5999.913	-8.31	47.62	39.31	54.00	14.69	186	156.2	Horizontal
4	15658.67	8.11	32.24	40.35	54.00	13.65	185	106.6	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	1199	73.07	50.27	-22.80	74.00	23.73	100	172	Vertical
2	1659.4	69.53	47.15	-22.38	74.00	26.85	200	233	Vertical
3	1987	69.19	48.28	-20.91	74.00	25.72	100	111	Vertical
4	2499.8	64.38	49.19	-15.19	74.00	24.81	100	223	Vertical
5	4999.5	62.97	52.20	-10.77	74.00	21.80	100	167	Vertical
6	13851	44.78	51.21	6.43	74.00	22.79	200	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	1198.237	-22.80	55.26	32.46	54.00	21.54	140	177.5	Vertical
2	1992.205	-20.91	49.04	28.13	54.00	25.87	108	140	Vertical
3	2495.097	-15.19	49.67	34.48	54.00	19.52	101	225.5	Vertical
4	5000.0785	-10.77	59.47	48.70	54.00	5.30	141	165.4	Vertical
5	13854.205	6.43	32.68	39.11	54.00	14.89	125	247.1	Vertical

Mode: IEEE 802.11ax HE20
Lowest Frequency (2412MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1162.4	69.25	46.56	-22.69	74.00	27.44	200	143	Horizontal
2	1661.2	68.41	46.79	-21.62	74.00	27.21	200	83	Horizontal
3	1979	63.38	43.41	-19.97	74.00	30.59	100	263	Horizontal
4	2999	59.96	44.32	-15.64	74.00	29.68	100	90	Horizontal
5	4999.5	57.99	47.42	-10.57	74.00	26.58	200	197	Horizontal
6	15604.5	44.43	52.86	8.43	74.00	21.14	200	238	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	15678.7975	8.43	32.72	41.15	54.00	12.85	125	266.3	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	1197.2	74.21	51.37	-22.84	74.00	22.63	200	0	Vertical
2	2093.6	68.15	48.77	-19.38	74.00	25.23	100	333	Vertical
3	2657	64.30	46.79	-17.51	74.00	27.21	200	214	Vertical
4	3319.5	59.75	43.87	-15.88	74.00	30.13	100	129	Vertical
5	4999.5	63.76	52.99	-10.77	74.00	21.01	100	168	Vertical
6	14455.5	43.94	51.25	7.31	74.00	22.75	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	1196.316	-22.84	55.99	33.15	54.00	20.85	199	4.7	Vertical
2	2092.994	-19.38	55.19	35.81	54.00	18.19	101	316.9	Vertical
3	5000.0785	-10.77	59.41	48.64	54.00	5.36	142	163.4	Vertical
4	14522.4425	7.31	31.87	39.18	54.00	14.82	120	240.1	Vertical

Mode: IEEE 802.11ax HE20
Middle Frequency (2437MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1166	69.36	46.66	-22.70	74.00	27.34	100	45	Horizontal
2	1664.2	69.45	47.84	-21.61	74.00	26.16	200	76	Horizontal
3	2316.4	66.25	48.71	-17.54	74.00	25.29	100	126	Horizontal
4	2662.6	62.53	45.04	-17.49	74.00	28.96	200	338	Horizontal
5	4999.5	58.62	48.05	-10.57	74.00	25.95	100	182	Horizontal
6	15624	43.60	51.82	8.22	74.00	22.18	200	172	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	2315.73	-17.54	57.16	39.62	54.00	14.38	140	143.5	Horizontal
2	4999.9345	-10.57	52.56	41.99	54.00	12.01	113	183.8	Horizontal
3	15675.55	8.22	32.88	41.10	54.00	12.90	166	200.8	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	1198.4	72.03	49.21	-22.82	74.00	24.79	100	167	Vertical
2	1663.8	70.78	48.38	-22.40	74.00	25.62	200	228	Vertical
3	2093.6	66.86	47.48	-19.38	74.00	26.52	200	300	Vertical
4	4999.5	63.05	52.28	-10.77	74.00	21.72	200	164	Vertical
5	6000	56.81	48.50	-8.31	74.00	25.50	100	244	Vertical
6	13450.5	44.47	51.43	6.96	74.00	22.57	200	112	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	1195.642	-22.82	55.03	32.21	54.00	21.79	134	177.4	Vertical
2	1661.874	-22.40	54.98	32.58	54.00	21.42	200	229.5	Vertical
3	5000.1515	-10.77	59.26	48.49	54.00	5.51	145	162.4	Vertical
4	6000.087	-8.31	52.48	44.17	54.00	9.83	100	278.2	Vertical
5	13413.3175	6.96	32.51	39.47	54.00	14.53	186	85.7	Vertical

Mode: IEEE 802.11802.11ax HE20
Highest Frequency (2462MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1198	71.38	48.60	-22.78	74.00	25.40	100	131	Horizontal
2	1665.8	69.40	47.79	-21.61	74.00	26.21	200	71	Horizontal
3	2499	61.83	46.80	-15.03	74.00	27.20	100	20	Horizontal
4	4999.5	58.28	47.71	-10.57	74.00	26.29	200	197	Horizontal
5	6000	56.16	47.85	-8.31	74.00	26.15	200	239	Horizontal
6	15603	44.50	52.95	8.45	74.00	21.05	100	17	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	1196.908	-22.78	50.96	28.18	54.00	25.82	107	158.1	Horizontal
2	15676.615	8.45	32.92	41.37	54.00	12.63	121	16	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	1198	74.46	51.64	-22.82	74.00	22.36	200	161	Vertical
2	1664.4	71.63	49.23	-22.40	74.00	24.77	200	224	Vertical
3	1996.8	72.62	51.68	-20.94	74.00	22.32	100	101	Vertical
4	2092.8	67.89	48.50	-19.39	74.00	25.50	100	344	Vertical
5	4999.5	63.63	52.86	-10.77	74.00	21.14	100	167	Vertical
6	13852.5	45.05	51.48	6.43	74.00	22.52	100	126	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	1198.745	-22.82	56.46	33.64	54.00	20.36	126	178.5	Vertical
2	1662.401	-22.40	55.34	32.94	54.00	21.06	200	225.7	Vertical
3	1991.627	-20.94	51.04	30.10	54.00	23.90	148	130.8	Vertical
4	2092.951	-19.39	54.80	35.41	54.00	18.59	100	316.1	Vertical
5	5000.0785	-10.77	57.28	46.51	54.00	7.49	114	179.9	Vertical
6	13857.9175	6.43	32.71	39.14	54.00	14.86	100	139.8	Vertical

Mode: IEEE 802.11ax40
Lowest Frequency (2422MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1200	71.93	49.15	-22.78	74.00	24.85	100	30	Horizontal
2	1663.2	68.74	47.13	-21.61	74.00	26.87	200	315	Horizontal
3	2093	65.70	46.79	-18.91	74.00	27.21	100	191	Horizontal
4	2374.6	74.08	56.18	-17.90	74.00	17.82	200	21	Horizontal
5	4999.5	58.04	47.47	-10.57	74.00	26.53	100	178	Horizontal
6	15609	43.59	51.98	8.39	74.00	22.02	200	228	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	1195.971	-22.78	53.55	30.77	54.00	23.23	161	109.5	Horizontal
2	2378.827	-17.90	58.48	40.58	54.00	13.42	145	16.8	Horizontal
3	15675.635	8.39	32.98	41.37	54.00	12.63	104	198.9	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	1162.8	70.77	47.18	-23.59	74.00	26.82	200	1	Vertical
2	1664.2	71.13	48.73	-22.40	74.00	25.27	200	223	Vertical
3	2377.2	67.75	50.21	-17.54	74.00	23.79	100	221	Vertical
4	3325.5	62.09	46.29	-15.80	74.00	27.71	100	137	Vertical
5	4999.5	63.09	52.32	-10.77	74.00	21.68	100	158	Vertical
6	15678	45.53	51.49	5.96	74.00	22.51	200	149	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	1663.285	-22.40	53.92	31.52	54.00	22.48	200	219.9	Vertical
2	2383.53	-17.54	51.65	34.11	54.00	19.89	101	231	Vertical
3	5000.1515	-10.77	58.99	48.22	54.00	5.78	122	162.7	Vertical
4	15677.55	5.96	32.89	38.85	54.00	15.15	118	176.5	Vertical

Mode: IEEE 802.11ax40
Middle Frequency (2437MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1197.4	70.10	47.33	-22.77	74.00	26.67	100	110	Horizontal
2	2385	67.27	49.51	-17.76	74.00	24.49	100	29	Horizontal
3	2500.6	65.68	50.66	-15.02	74.00	23.34	100	38	Horizontal
4	3321	59.24	42.98	-16.26	74.00	31.02	100	87	Horizontal
5	4999.5	57.86	47.29	-10.57	74.00	26.71	100	179	Horizontal
6	15682.5	44.44	51.73	7.29	74.00	22.27	200	258	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	2383.55	-17.76	53.02	35.26	54.00	18.74	100	30.4	Horizontal
2	2501.034	-15.02	50.53	35.51	54.00	18.49	155	40.3	Horizontal
3	15676.5975	7.29	32.95	40.24	54.00	13.76	159	229.7	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	1194.4	74.51	51.61	-22.90	74.00	22.39	200	170	Vertical
2	1661.6	70.59	48.20	-22.39	74.00	25.80	200	232	Vertical
3	2092	67.93	48.53	-19.40	74.00	25.47	100	344	Vertical
4	3325.5	61.03	45.23	-15.80	74.00	28.77	100	139	Vertical
5	4999.5	63.62	52.85	-10.77	74.00	21.15	100	168	Vertical
6	15606	43.80	51.09	7.29	74.00	22.91	200	87	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	1197.425	-22.90	55.70	32.80	54.00	21.20	200	167.1	Vertical
2	1663.596	-22.39	55.07	32.68	54.00	21.32	200	227	Vertical
3	2092.727	-19.40	54.29	34.89	54.00	19.11	100	319	Vertical
4	5000.1515	-10.77	59.58	48.81	54.00	5.19	142	165	Vertical
5	15675.56	7.29	32.86	40.15	54.00	13.85	160	68.2	Vertical

Mode: IEEE 802.11ax40
Highest Frequency (2452MHz)
Environment: 21.5℃/65%RH/101.0kPa
Tested By:Zhang Zishan

Date: 2023-05-20
Voltage:DC 12V

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1195.4	68.99	46.22	-22.77	74.00	27.78	100	112	Horizontal
2	1665.8	68.98	47.37	-21.61	74.00	26.63	200	71	Horizontal
3	2307.8	63.68	46.31	-17.37	74.00	27.69	100	132	Horizontal
4	2495.8	72.83	57.69	-15.14	74.00	16.31	200	30	Horizontal
5	4999.5	58.73	48.16	-10.57	74.00	25.84	200	198	Horizontal
6	15676.5	44.38	51.79	7.41	74.00	22.21	100	249	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	2496.956	-15.14	60.07	44.93	54.00	9.07	138	27.8	Horizontal
2	5000.0065	-10.57	52.47	41.90	54.00	12.10	200	192.2	Horizontal
3	15674.2275	7.41	32.88	40.29	54.00	13.71	200	221.6	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	1198.2	74.60	51.78	-22.82	74.00	22.22	200	345	Vertical
2	1663.6	70.67	48.28	-22.39	74.00	25.72	200	224	Vertical
3	2503.4	67.27	51.92	-15.35	74.00	22.08	100	140	Vertical
4	4999.5	63.66	52.89	-10.77	74.00	21.11	100	157	Vertical
5	6000	56.98	48.67	-8.31	74.00	25.33	100	228	Vertical
6	13902	45.35	51.59	6.24	74.00	22.41	100	298	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	1196.709	-22.82	53.46	30.64	54.00	23.36	116	344	Vertical
2	1661.048	-22.39	54.09	31.70	54.00	22.30	199	221.2	Vertical
3	2496.227	-15.35	52.87	37.52	54.00	16.48	101	130.2	Vertical
4	5000.0785	-10.77	58.14	47.37	54.00	6.63	122	175.7	Vertical
5	5999.913	-8.31	47.16	38.85	54.00	15.15	162	254.6	Vertical
6	13859.95	6.24	32.67	38.91	54.00	15.09	120	268.4	Vertical

18GHz-26.5GHz:

Pre-scan all modes and recorded the worst case results in this report (IEEE 802.11g)
The peak test results is less than the average limits, so the average test results had not reported.

Mode: IEEE 802.11g ANT1
Lowest Frequency (2412MHz) Date: 2023-05-20
Environment:21.5℃/65%RH/101.0kPa Voltage:DC 12V
Tested By:Zhang Zishan

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18914.175	52.41	35.34	-17.07	83.54	48.20	200	250	Horizontal
2	20091.425	52.93	36.42	-16.51	83.54	47.12	200	123	Horizontal
3	22034.525	49.10	33.39	-15.71	83.54	50.15	200	218	Horizontal
4	23347.775	51.47	36.55	-14.92	83.54	46.99	200	28	Horizontal
5	24000.15	47.06	32.83	-14.23	83.54	50.71	100	123	Horizontal
6	25111.95	46.73	32.83	-13.90	83.54	50.71	200	14	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	18959.225	51.52	34.45	-17.07	83.54	49.09	100	298	Vertical
2	20594.2	50.95	34.37	-16.58	83.54	49.17	100	329	Vertical
3	21163.275	50.03	33.94	-16.09	83.54	49.60	100	359	Vertical
4	23348.2	52.38	37.50	-14.88	83.54	46.04	100	32	Vertical
5	24737.525	47.60	33.61	-13.99	83.54	49.93	100	110	Vertical
6	26138.325	47.14	32.76	-14.38	83.54	50.78	200	63	Vertical

Note: The pre measurement result margin is greater than 20dB, and final measurement is not required

Mode: IEEE 802.11g ANT1
Middle Frequency (2437MHz) Date: 2023-05-20
Environment:21.5℃/65%RH/101.0kPa Voltage:DC 12V
Tested By:Zhang Zishan

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18828.75	51.92	34.73	-17.19	83.54	48.81	100	236	Horizontal
2	19813.475	51.79	35.13	-16.66	83.54	48.41	100	174	Horizontal
3	20191.3	51.09	34.54	-16.55	83.54	49.00	100	330	Horizontal
4	22178.6	48.83	33.21	-15.62	83.54	50.33	200	188	Horizontal
5	23348.625	50.73	35.81	-14.92	83.54	47.73	100	31	Horizontal
6	25329.55	46.50	32.44	-14.06	83.54	51.10	200	126	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	18957.95	52.34	35.27	-17.07	83.54	48.27	100	172	Vertical
2	20056.15	51.13	34.37	-16.76	83.54	49.17	100	156	Vertical
3	21572.125	49.41	33.54	-15.87	83.54	50.00	200	298	Vertical
4	22927.025	48.84	33.98	-14.86	83.54	49.56	100	219	Vertical
5	23347.775	50.20	35.32	-14.88	83.54	48.22	100	45	Vertical
6	25685.7	47.33	33.18	-14.15	83.54	50.36	100	251	Vertical

Note: The pre measurement result margin is greater than 20dB, and final measurement is not required

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