

Test Report

Verified code: 083972

Report No.: E202409184352-7

Customer: Huizhou Foryou General Electronics Co., Ltd.
Address: No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)
Sample Name: Intelligent cabin controller
Sample Model: HS7024
Receive Sample Date: Sep.18,2024
Test Date: Sep.25,2024 ~ Oct.02,2024
Reference Document: 47 CFR, FCC Parts 15 Subpart E Unlicensed National Information Infrastructure Devices
Test Result: Pass

Prepared by: Wen Wenwen
Wen Wenwen

Reviewed by: Peng Huarui
Peng Huarui

Approved by: Zhao Zhenan
Zhao Zhenan



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Issued Date: 2024-10-21

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E202409184352-7	Original Issue	2024-10-15

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1. TEST RESULT SUMMARY

Standard	Item	Limit / Severity	Result
47 CFR, FCC Parts 15 Subpart E (§15.407)	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)	N/A ²⁾
	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 ¹⁾

Note:¹⁾ The antenna is Internal antenna. The EUT have two antennas, the antenna 1 max gain is 5.45dBi, the antenna 2 max gain is 7.26dBi, which accordance 15.203 is considered sufficient to comply with the provisions of this section.

²⁾ Test is not applicable to this Equipment. This EUT is no AC mains power ports.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Huizhou Foryou General Electronics Co., Ltd.
Address: No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)

2.2 MANUFACTURER

Name: Huizhou Foryou General Electronics Co., Ltd.
Address: No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)

2.3 FACTORY

Name : Huizhou Foryou General Electronics Co., Ltd.
Address : No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Intelligent cabin controller
Model No.: HS7024
Trade Mark: ADAYO
FCC ID: 2AEIN-HS7024
Power Supply: DC 12V
Battery: Ni-MH BATTERY AA1000mAh, LTT-HS7012A, LTT-AAP1000X3 3.6V
Frequency Band: U-NII-3: 5745MHz~5825MHz
Modulation Type: IEEE 802.11a: OFDM
IEEE 802.11n: OFDM
IEEE 802.11ac: OFDM
Antenna Specification: U-NII-3: Internal antenna 1 with 5.45dBi antenna gain(max),
Internal antenna 2 with 7.26dBi antenna gain(max)
Channels Spacing: IEEE 802.11a: 20MHz
IEEE 802.11n HT20: 20MHz
IEEE 802.11n HT40: 40MHz
IEEE 802.11acVHT20: 20MHz
IEEE 802.11acVHT40: 40MHz
IEEE 802.11acVHT80: 80MHz
Transmit Power: Refer to page 89
Temperature Range: -40°C~75°C
Voltage Range: 9V~16V

Hardware Version: B.0.1

Software Version: SWC.0007

Sample submitting way: Provided by customer Sampling

Sample No: E202409184352-0001, E202409184352-0002

1. 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. This EUT (Intelligent cabin controller) the model name HS7024 with High, Low two configuration. The two configuration have the same technical construction including circuit diagram, PCB LAYOUT, hardware version, software, except the High configuration with full function but the Low configuration without some functions as below table. These difference which are not affect the RF performance. So only tested the high configuration of HS7024.

Note:

HS7024 Function	Configuration	
	High	Low
4MIC port	Y	N
DMS port	Y	N
Ethernet port	Y	N
Support PTZ camera port	Y	N
Integrated projection headlights port	Y	N

2.5 CHANNEL LIST AND POWER SETTING

Mode	Frequency (MHz)	Power Setting
IEEE 802.11a	5745	Antenna 1: 7, antenna 2: 8
	5785	Antenna 1: 7, antenna 2: 8
	5825	Antenna 1: 7, antenna 2: 8

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT20	5745	5	IEEE 802.11ac VHT20	5745	5
	5785	5		5785	5
	5825	5		5825	5

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT40	5755	5	IEEE 802.11ac VHT40	5755	5
	5795	5		5795	5

Mode	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT80	5775	5

Test software
adb

2.6 TEST OPERATION MODE

Mode No.	Description of the modes
1	5GHz Wi-Fi fixed frequency transmitting

2.7 LOCAL SUPPORTIVE INSTRUMENTS

No.	Name of Equipment	Manufacturer	Model	Serial Number
A	Notebook	DELL	Latitude3400	8RZFJW2
B	DC source	KEYSIGHT	E36131A	MY59001135

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	DC cable	1	No	0	0.8m
2	Serial cable	1	No	0	2.0m

2.8 CONFIGURATION OF SYSTEM UNDER TEST



2.9 DUTY CYCLE

Environment: 24.5°C/65%RH 101.0kPa

Voltage:DC 12V

Tested By: Zhu rongting

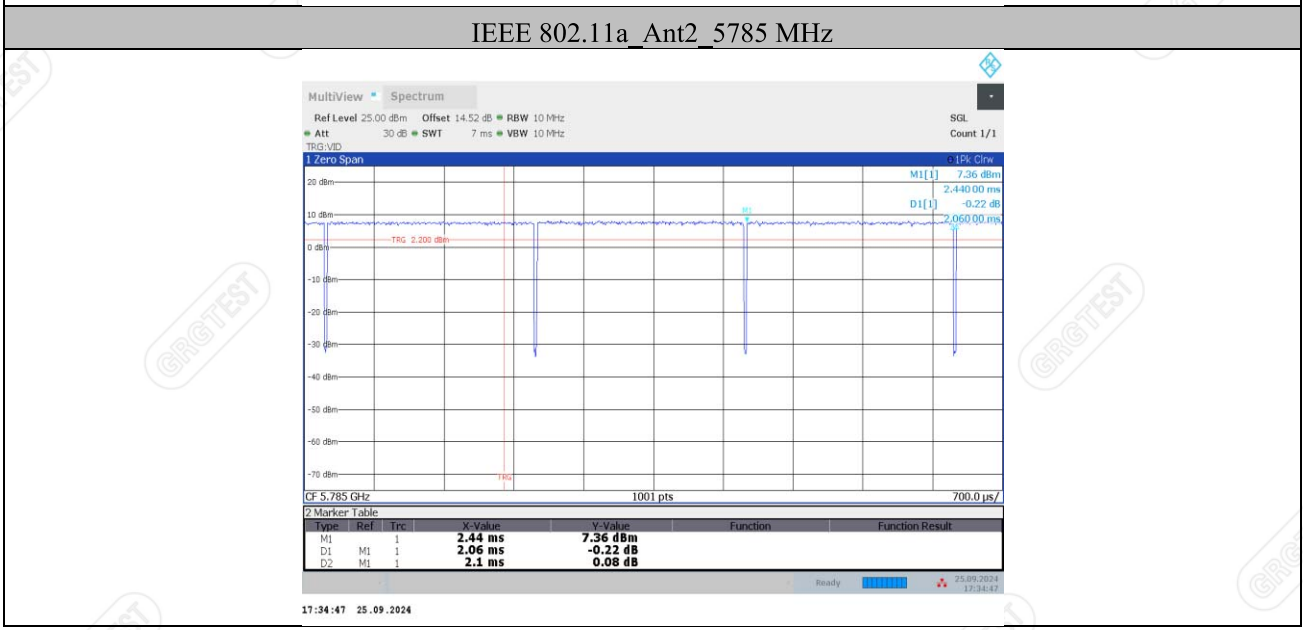
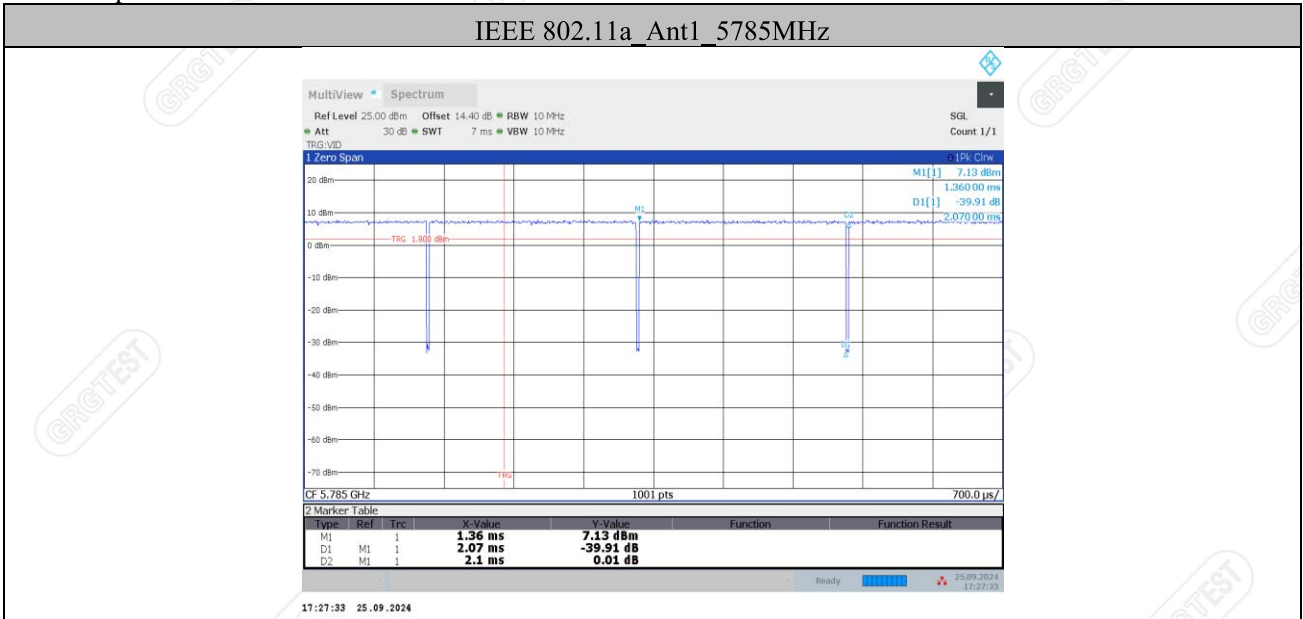
Date: 2024-09-25

Test Mode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Factor	T(s)
IEEE 802.11a	Ant1	5785	2.07	2.10	98.57	0.06	0.00207
	Ant2	5785	2.06	2.10	98.10	0.08	0.00206
IEEE 802.11n HT20	Ant1	5785	0.98	1.02	96.08	0.17	0.00098
	Ant2	5785	0.99	1.02	97.06	0.13	0.00099
IEEE 802.11n HT40	Ant1	5795	0.50	0.54	92.59	0.33	0.0005
	Ant2	5795	0.49	0.53	92.45	0.34	0.00049
IEEE 802.11ac VHT20	Ant1	5785	1.00	1.03	97.09	0.13	0.001
	Ant2	5785	1.00	1.03	97.09	0.13	0.001
IEEE 802.11ac VHT40	Ant1	5795	0.50	0.53	94.34	0.25	0.0005
	Ant2	5795	0.50	0.54	92.59	0.33	0.0005
IEEE 802.11ac VHT80	Ant1	5775	0.26	0.30	86.67	0.62	0.00026
	Ant2	5775	0.26	0.30	86.67	0.62	0.00026

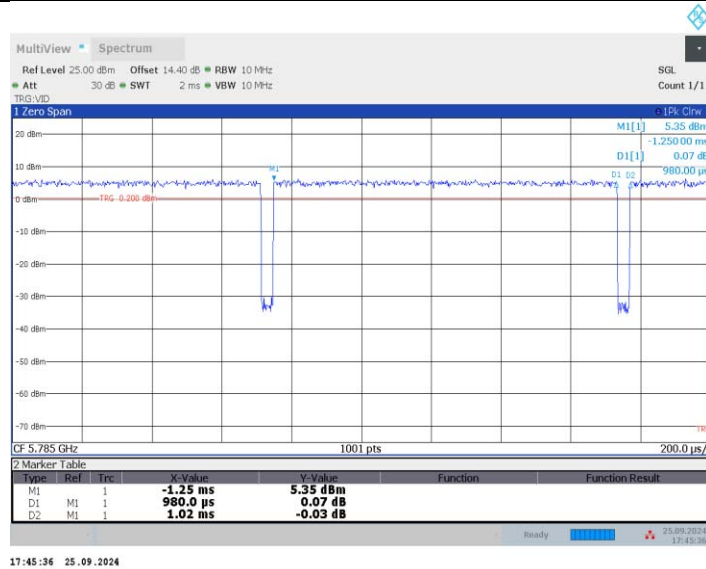
Note: Duty Factor= $10\log(1/\text{Duty Cycle})$.

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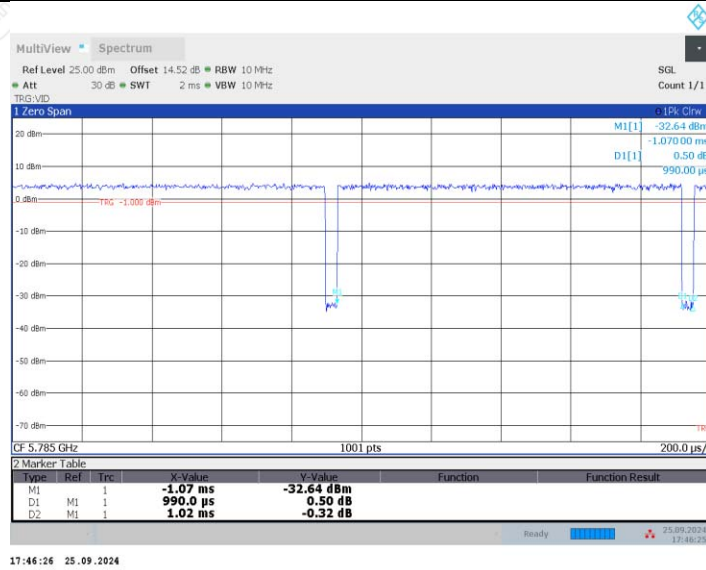
Test Graphs



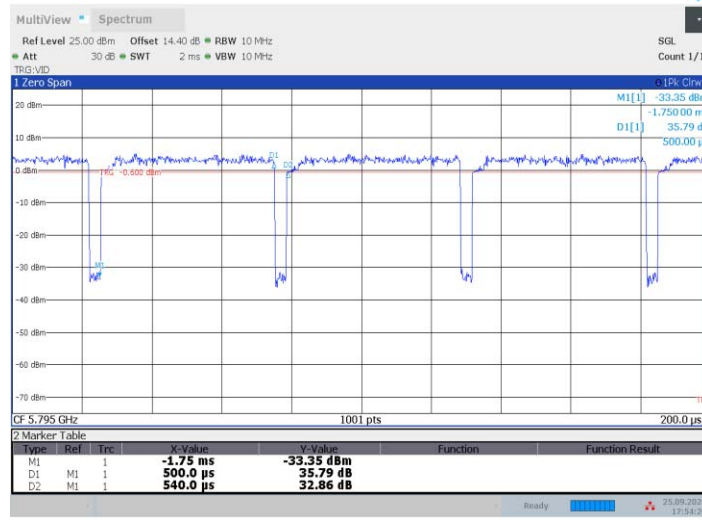
IEEE 802.11n HT20_Ant1_5785 MHz



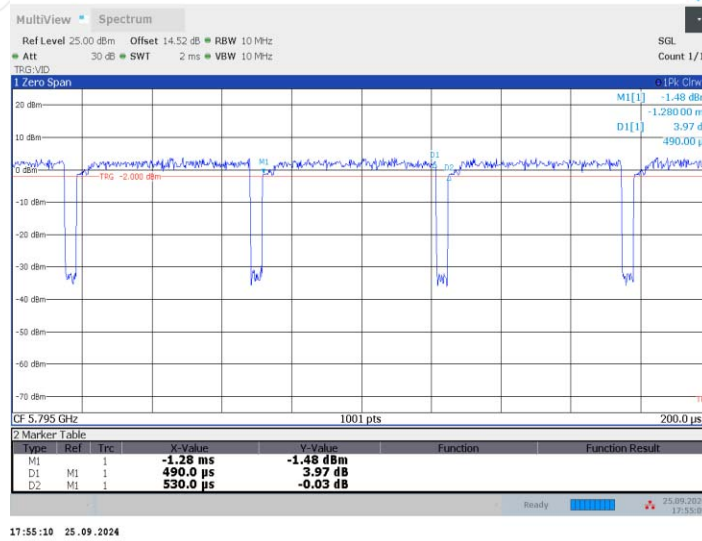
IEEE 802.11n HT20_Ant2_5785 MHz



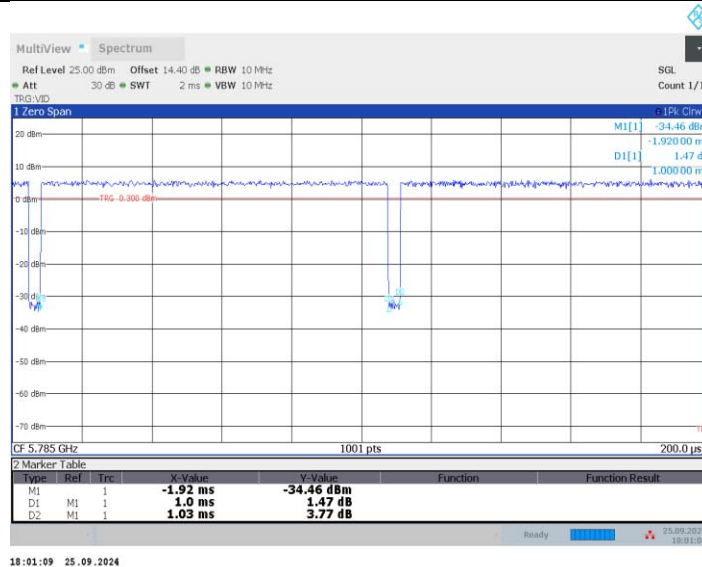
IEEE 802.11n HT40_Ant1_5795 MHz



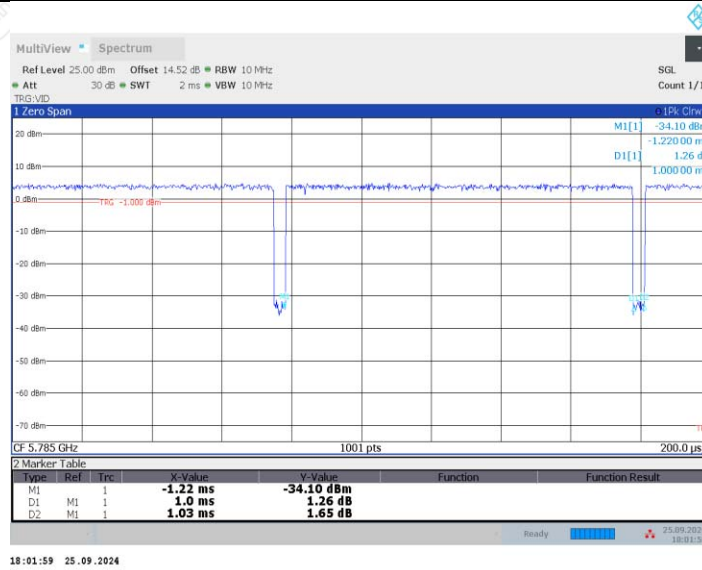
IEEE 802.11n HT40_Ant2_5795 MHz



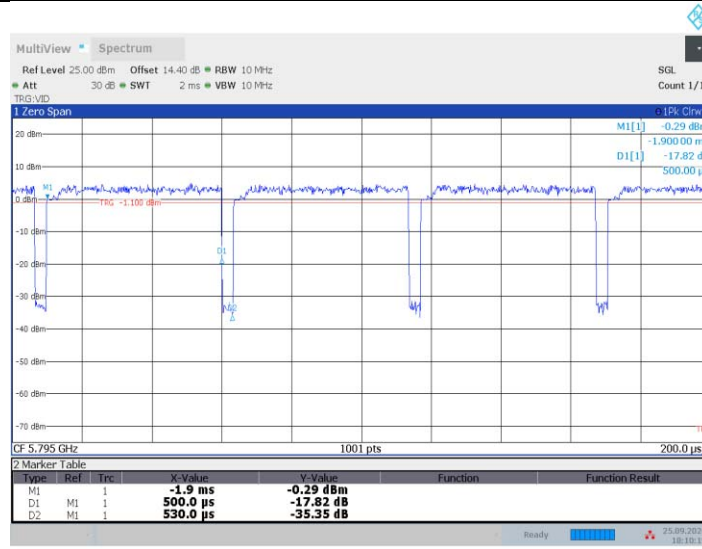
IEEE 802.11ac VHT20_Ant1_5785 MHz



IEEE 802.11ac VHT20_Ant2_5785 MHz

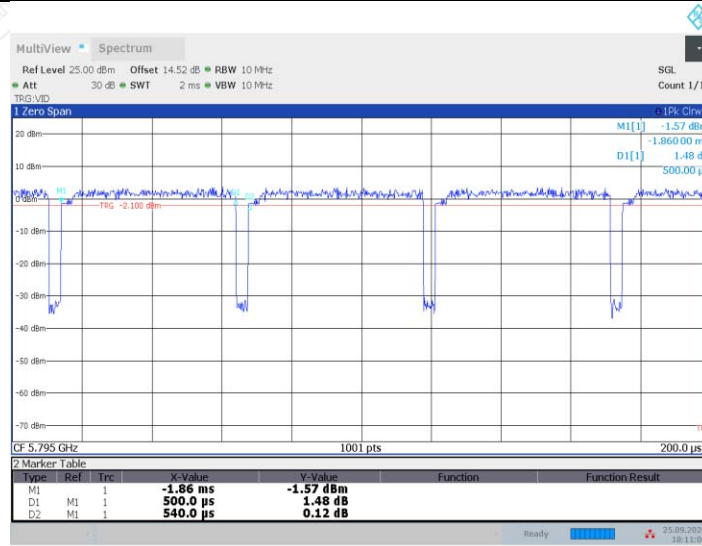


IEEE 802.11ac VHT40 Ant1_5795 MHz



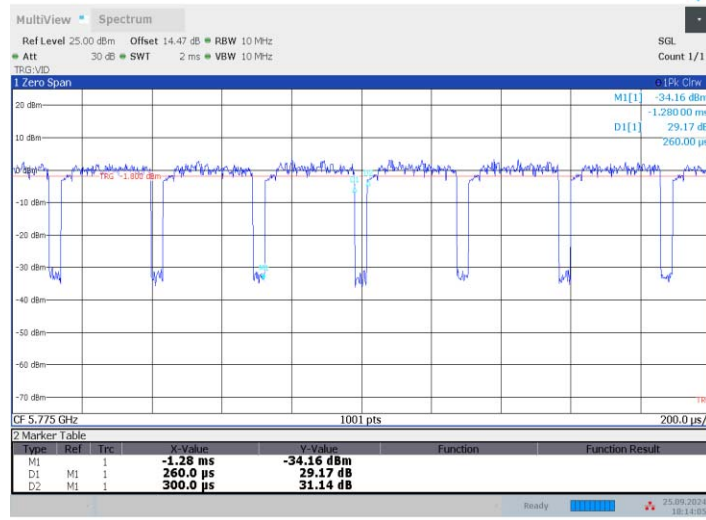
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IEEE 802.11ac VHT40 Ant2_5795 MHz



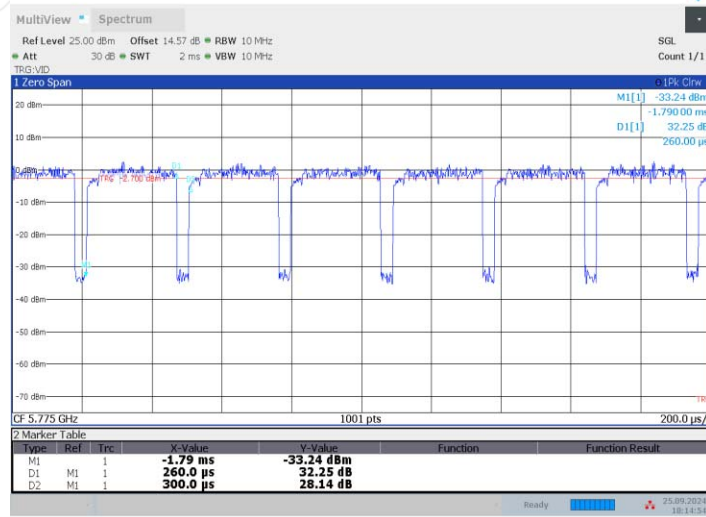
18:11:08 25.09.2024

IEEE 802.11ac VHT80_Ant1_5775 MHz



18:14:06 25.09.2024

IEEE 802.11ac VHT80_Ant2_5775 MHz



18:14:54 25.09.2024

3. LABORATORY AND ACCREDITATIONS AND MEASUREMENT UNCERTAINTY

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 Guangang 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 17025:2017.

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	X	9kHz~30MHz	4.4dB ¹⁾	
	Y	9kHz~30MHz	4.4dB ¹⁾	
	Z	9kHz~30MHz	4.4dB ¹⁾	
	Horizontal		30MHz~200MHz	4.6dB ¹⁾
			200MHz~1000MHz	4.8dB ¹⁾
			1GHz~18GHz	5.0dB ¹⁾
			18GHz~40GHz	5.2dB ¹⁾
	Vertical		30MHz~200MHz	4.7dB ¹⁾
			200MHz~1000MHz	4.7dB ¹⁾
			1GHz~18GHz	5.1dB ¹⁾
		18GHz~40GHz	5.4dB ¹⁾	

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.78dB
Power spectral density	0.78dB
Occupied channel bandwidth	0.4dB
Unwanted emission, conducted	0.68dB
Humidity	6.0%
Temperature	2.0°C

Note:

¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95%.

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

4. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Unwanted Emissions & Band Edge				
Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-56	2025-05-07
Preamplifier	SHIRONG ELECTRONIC	DLNA-30M1G-G40	20200928001	2025-01-30
Bi-log Antenna	Schwarzbeck	VULB9160	VULB9160-3402	2025-09-24
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2025-06-15
Test Receiver	R&S	ESR26	101758	2025-09-10
Spectrum Analyzer	Agilent	N9010A	MY52221469	2025-04-19
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2025-08-24
Amplifier	Tonscend	TAP01018048	AP20E8060075	2025-03-01
Amplifier	Tonscend	TAP184050	AP20E806071	2025-03-01
Amplifier	SHIRONG	DLNA-1G18G-G40	20200928005	2025-07-19
Test S/W	Tonscend	JS36-RE/2.5.1.5		
99% Bandwidth & 6 dB Bandwidth & 26dB Bandwidth & Peak power spectral density & Duty cycle				
Spectrum Analyzer	R&S	FSV30	1321.3008K30 -104381-rH	2025-09-22
Automatic control unit	TONSCEND	JS0806-2	2018060317	2025-07-20
BT/WIFI System	Tonscend	JS1120-3		
Output Power				
Pulse power sensor	Anristu	MA2411B	1126150	2025-01-11
Power meter	Anristu	ML2495A	1204003	2025-01-11
Frequency Stability				
Spectrum Analyzer	R&S	FSV30	1321.3008K30 -104381-rH	2025-09-22
Automatic control unit	TONSCEND	JS0806-2	2018060317	2025-07-20
DC source	KEYSIGHT	E36131A	MY59001135	2025-09-08

High and low temperature humid heat test chamber	FC	FPHC-23AW-40	FD202306015	2025-08-26
BT/WIFI System	TONSCEND	JS1120-3		

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

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5. UNWANTED EMISSIONS

5.1 LIMITS

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

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(μ 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

5.2 TEST PROCEDURES

- 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.
- EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- Set the EUT transmit continuously with maximum output power.
- The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- 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.
- Spectrum analyzer setting parameters please see the below table.
- Repeat above procedures until all channels were measured.
- 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 Duty cycle \geq 98%,VBW=10Hz Duty cycle $<$ 98%,VBW \geq 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 2.9 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 dB μ V/m,
 EIRP = equivalent isotropic radiated power in dBm
 D = specified measurement distance in meters.
 So: $E = -27 - 20\log 3 + 104.8 = 68.3$ (dB μ 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= $74 + 20 * \log(3/1) = 83.54$ (dB μ V/m).
 The Avg Limit= $54 + 20 * \log(3/1) = 63.54$ (dB μ V/m).
- (4) The maximum emissions of the operation frequency bands ,Above 18G test distance is 1m, so the Peak Limit= $68.3 + 20 * \log(3/1) = 77.84$ (dB μ V/m).

5.3 TEST SETUP

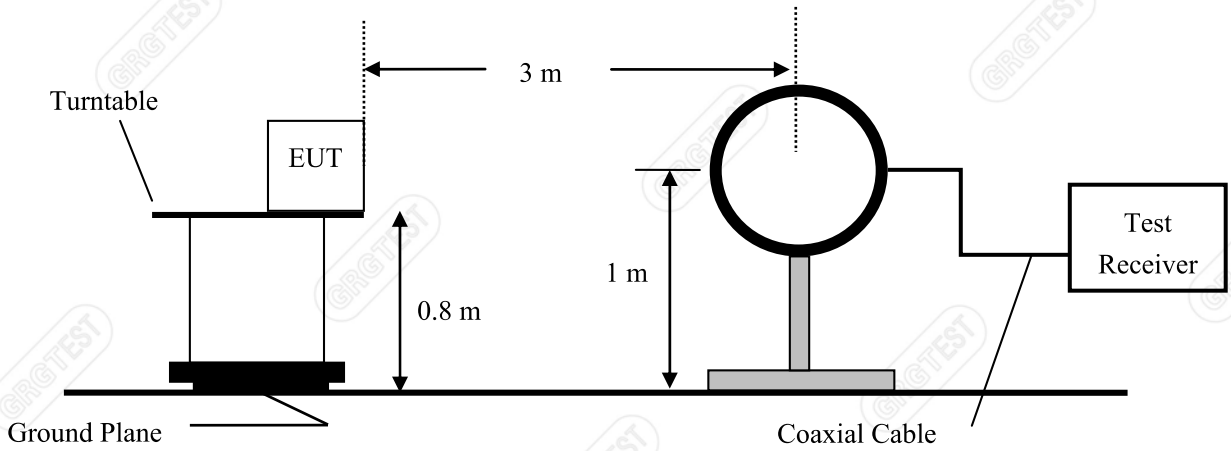


Figure 1. 9kHz to 30MHz radiated emissions test configuration

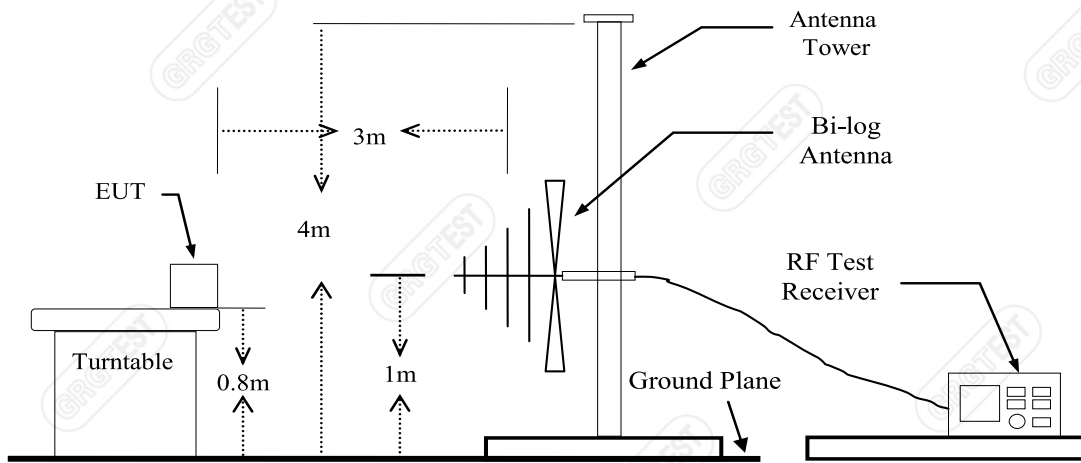


Figure 2. 30MHz to 1GHz radiated emissions test configuration

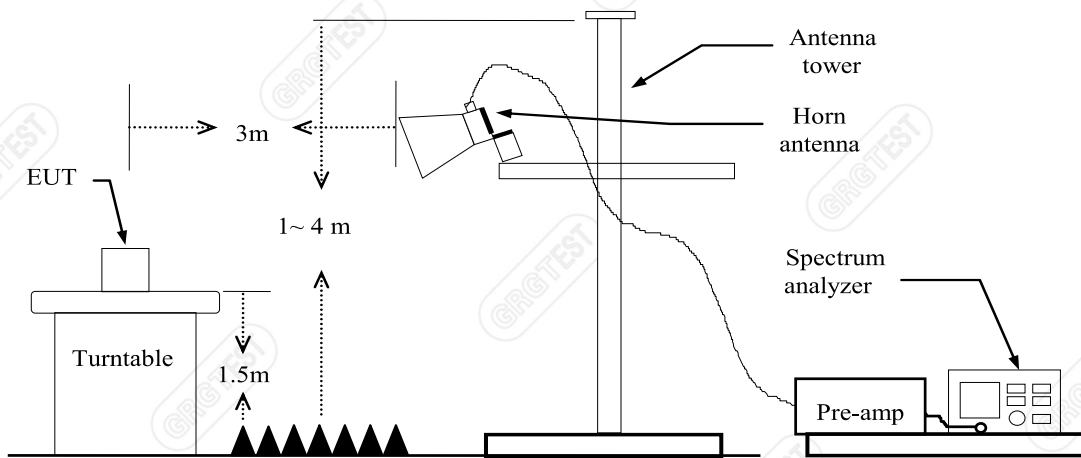


Figure 3. 1GHz to 18GHz radiated emissions test configuration

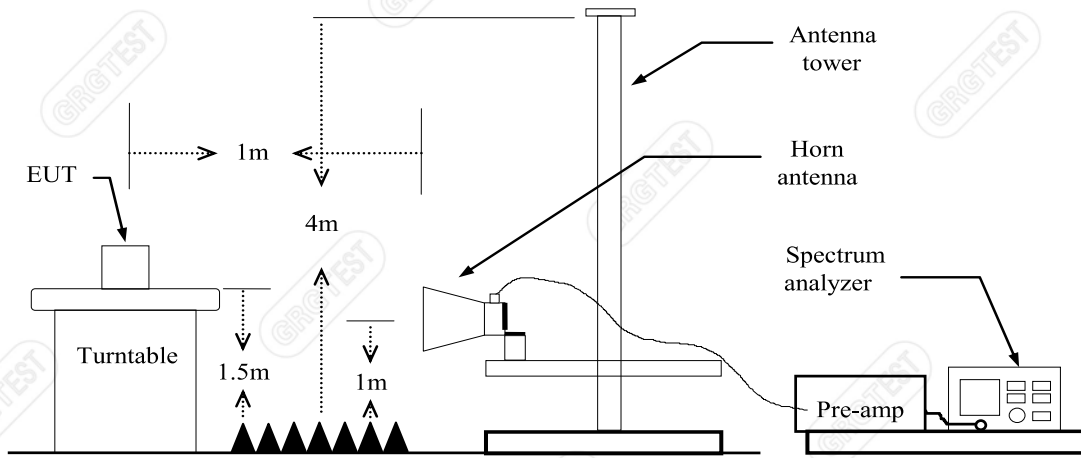


Figure 4. Above 18GHz radiated emissions test configuration

5.4 DATA SAMPLE

30MHz to 1GHz

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
xxx	xxx	56.35	27.07	-29.28	40.00	12.93	QP	100	20	Horizontal	PASS

- Frequency (MHz) = Emission frequency in MHz
- Reading (dBμV/m) = Uncorrected Analyzer / Receiver reading
- Factor (dB) = Antenna factor + Cable loss – Amplifier gain
- Level (dBμV/m) = Reading (dBμV/m) + Factor (dB)
- Limit (dBμV/m) = Limit stated in standard
- Margin (dB) = Limit (dBμV/m) - Level (dBμV/m)
- QP = Quasi-peak Reading

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

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	54.49	42.38	32.84	-12.11	74.00	41.16	100	211	Horizontal	Peak
xxx	xxxx	43.99	31.88	22.34	-12.11	54.00	31.66	100	211	Horizontal	AVG

- Frequency (MHz) = Emission frequency in MHz
- Reading (dBμV/m) = Uncorrected Analyzer / Receiver reading

Factor (dB)	= Antenna factor + Cable loss – Amplifier gain
Level for 1m (dBuV/m)	= Reading (dBuV/m) + Factor (dB)
Level for 3m (dBuV/m)	= Level for 1m (dBuV/m) + 20*log(1/3)
Limit (dBuV/m)	= Limit stated in standard
Margin (dB)	= Limit (dBuV/m) – Level (dBuV/m)
Polarity	= Antenna polarization
Peak	= Peak Reading
AVG	= Average Reading

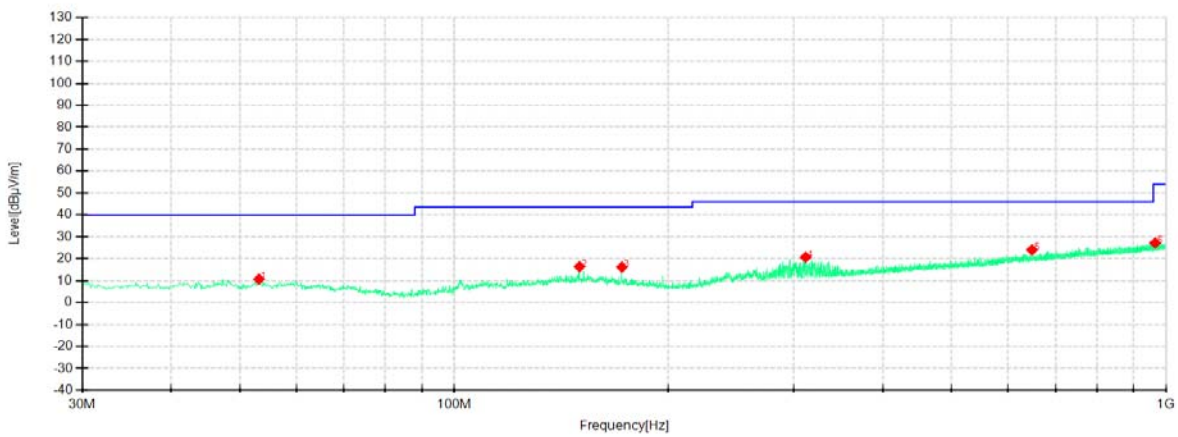
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5.5 TEST RESULTS

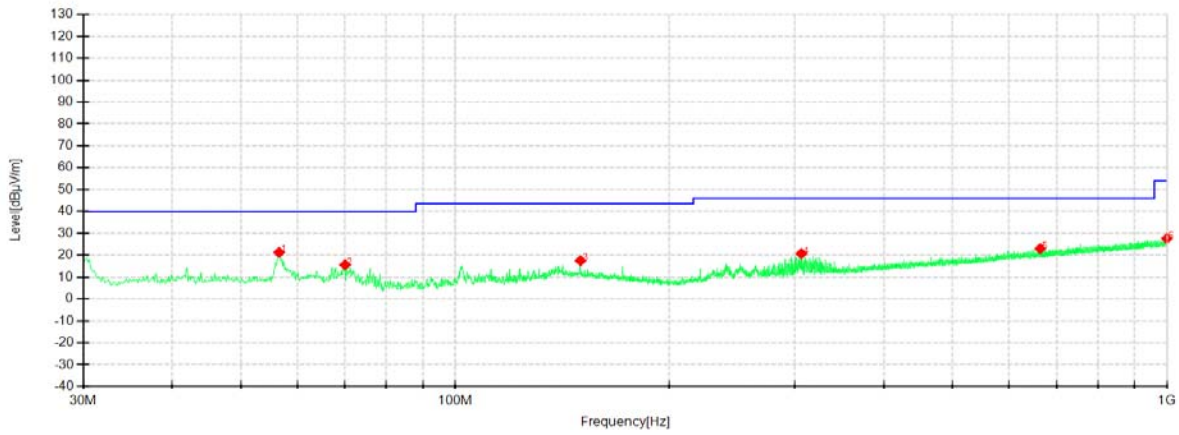
Below 1GHz

Note: Pre-scan all modes, only the worst case(IEEE 802.11a 5825MHz-antenna 1) is recorded in this report.

Power supply:	DC 12V	Environmental Conditions:	24.8°C/62%RH/101.0kPa
Test Engineer:	Zhao yaru	Test Date:	2024-09-29



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	53.1616	39.77	10.72	-29.05	40.00	29.28	QP	100	122	Horizontal	PASS
2	149.9312	44.56	16.40	-28.16	43.50	27.10	QP	100	20	Horizontal	PASS
3	172.0015	45.37	16.20	-29.17	43.50	27.30	QP	200	139	Horizontal	PASS
4	311.5777	47.86	20.70	-27.16	46.00	25.30	QP	100	199	Horizontal	PASS
5	648.0885	42.80	24.02	-18.78	46.00	21.98	QP	100	20	Horizontal	PASS
6	965.3182	41.78	27.20	-14.58	54.00	26.80	QP	100	46	Horizontal	PASS



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	56.5571	50.58	21.30	-29.28	40.00	18.70	QP	100	71	Vertical	PASS
2	70.0175	46.66	15.63	-31.03	40.00	24.37	QP	100	71	Vertical	PASS
3	149.9312	45.70	17.54	-28.16	43.50	25.96	QP	100	84	Vertical	PASS
4	306.3633	48.03	20.71	-27.32	46.00	25.29	QP	100	84	Vertical	PASS
5	663.6105	41.53	22.98	-18.55	46.00	23.02	QP	100	287	Vertical	PASS
6	999.3937	41.67	27.62	-14.05	54.00	26.38	QP	100	98	Vertical	PASS

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 120kHz.
- 5 If the margin of the pre test results is greater than 6db, it meets the requirements of quasipeak or average values, and final testing is no longer required.

1GHz-18GHz:

Note: Pre-scan all test modes and recorded the worst case IEEE 802.11a test results in the report.

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

For antenna 1

Mode: IEEE 802.11a

Lowest Frequency (5745MHz)

Environment: 25.2°C/59%RH/101.0kPa

Tested By: Zhao yaru

Voltage:DC 12V

Date: 2024-09-30

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3142.2500	60.37	49.04	-11.33	68.30	19.26	100	127	Horizontal
2	4997.9500	48.60	50.06	1.46	74.00	23.94	200	243	Horizontal
3	5957.7000	49.96	50.54	0.58	68.30	17.76	200	204	Horizontal
4	9893.6500	40.29	49.54	9.25	68.30	18.76	200	156	Horizontal
5	14606.3500	36.33	52.88	16.55	68.30	15.42	200	234	Horizontal
6	17713.6500	37.35	53.10	15.75	74.00	20.90	200	194	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	2043.9000	58.05	41.07	-16.98	68.30	27.23	100	166	Vertical
2	3132.3500	53.79	42.03	-11.76	68.30	26.27	100	44	Vertical
3	5051.3000	47.28	48.99	1.71	74.00	25.01	200	313	Vertical
4	5955.5000	47.44	48.20	0.76	68.30	20.10	100	233	Vertical
5	10083.4000	38.99	49.44	10.45	68.30	18.86	200	180	Vertical
6	16853.4500	37.32	52.63	15.31	68.30	15.67	200	234	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	5045.8538	1.71	35.64	37.35	54.00	16.65	108	305.5	Vertical
2	5962.6533	0.76	36.25	37.01	53.54	16.53	100	235.5	Vertical
3	10107.6965	10.45	26.95	37.40	53.89	16.49	200	153.8	Vertical
4	16868.5764	15.31	25.63	40.94	53.89	12.95	108	213.9	Vertical

Mode: IEEE 802.11a
 Lowest Frequency (5785MHz)
 Environment: 25.2°C/59%RH/101.0kPa
 Tested By: Zhao yaru

Voltage:DC 12V
 Date: 2024-09-30

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3142.2500	59.62	48.29	-11.33	68.30	20.01	100	128	Horizontal
2	3889.7000	50.51	43.46	-7.05	74.00	30.54	100	112	Horizontal
3	5044.1500	48.37	49.97	1.60	74.00	24.03	200	244	Horizontal
4	6749.5500	49.69	49.17	-0.52	68.30	19.13	200	169	Horizontal
5	14248.7000	36.03	52.04	16.01	68.30	16.26	100	258	Horizontal
6	16993.7500	36.86	52.45	15.59	68.30	15.85	200	90	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	5044.9166	1.60	36.74	38.34	54.00	15.66	200	245.9	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	2005.9500	57.94	41.04	-16.90	68.30	27.26	200	167	Vertical
2	3142.2500	55.82	44.16	-11.66	68.30	24.14	100	327	Vertical
3	4268.6500	50.82	45.80	-5.02	74.00	28.20	100	141	Vertical
4	5043.6000	48.35	50.07	1.72	74.00	23.93	100	360	Vertical
5	6749.5500	46.81	46.49	-0.32	68.30	21.81	200	141	Vertical
6	16868.4000	37.61	52.89	15.28	68.30	15.41	100	0	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	5047.1040	1.72	36.04	37.76	54.00	16.24	100	317	Vertical

Mode: IEEE 802.11a
 Lowest Frequency (5825MHz)
 Environment: 25.2°C/59%RH/101.0kPa
 Tested By: Zhao yaru

Voltage:DC 12V
 Date: 2024-09-30

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3142.2500	59.69	48.36	-11.33	68.30	19.94	100	110	Horizontal
2	4077.8000	49.98	43.09	-6.89	74.00	30.91	200	208	Horizontal
3	5001.2500	47.58	49.10	1.52	74.00	24.90	200	23	Horizontal
4	6749.5500	48.72	48.20	-0.52	68.30	20.10	200	178	Horizontal
5	14196.9500	34.12	51.03	16.91	68.30	17.27	100	219	Horizontal
6	17996.5500	38.15	54.50	16.35	74.00	19.50	200	98	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	4995.0979	1.52	36.02	37.54	54.00	16.46	200	246.6	Horizontal
2	17998.5073	16.35	26.56	42.91	54.00	11.09	189	33.3	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	1986.1500	57.36	40.12	-17.24	68.30	28.18	100	152	Vertical
2	3142.2500	54.67	43.01	-11.66	68.30	25.29	100	311	Vertical
3	3790.1500	52.12	43.57	-8.55	74.00	30.43	100	125	Vertical
4	5051.8500	47.22	48.93	1.71	74.00	25.07	200	313	Vertical
5	14124.5000	35.12	51.25	16.13	68.30	17.05	100	46	Vertical
6	16818.9500	37.32	52.62	15.30	68.30	15.68	200	21	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	5043.1134	1.71	35.50	37.21	54.00	16.79	200	297.2	Vertical