

4.6. Conducted Band Edge and Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 15.247 Meas Guidance v05r02
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	Spectrum Analyzer
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



HS HF

RF Test Room									
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due				
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025				
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 20, 2024	Feb. 19, 2025				
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 20, 2024	Feb. 19, 2025				
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 20, 2024	Feb. 19, 2025				
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A				

Test Instruments

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



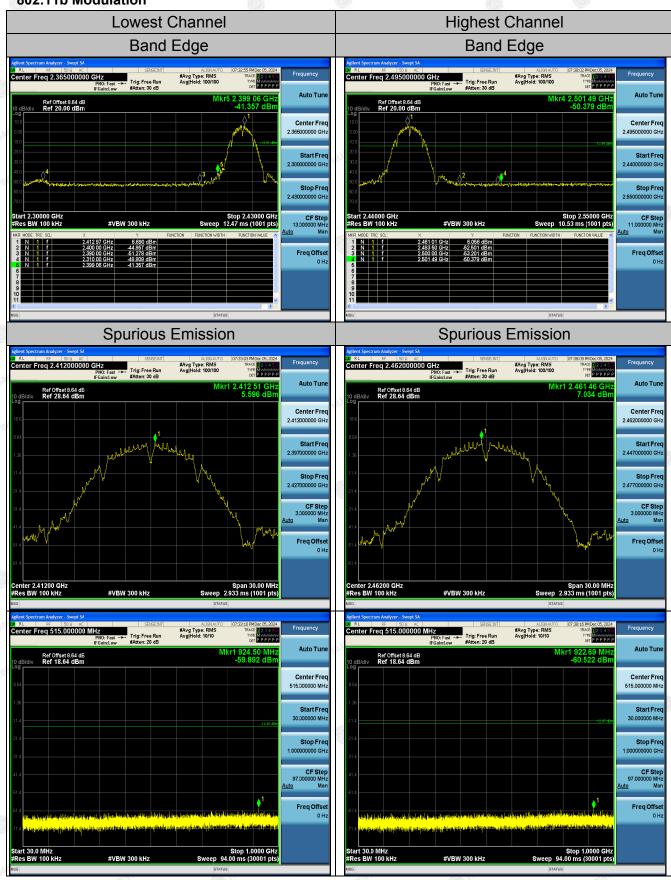
Page 35 of 72

NG

IE.

Test Data





The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

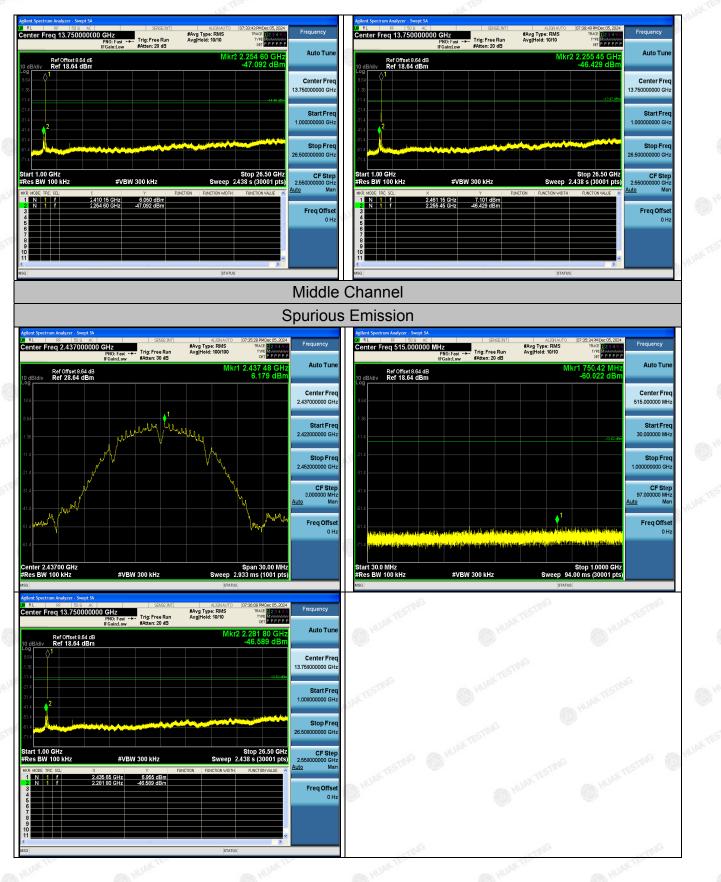
TEL:+86-755 2302 9901 FAX:+86-755 2302 9901 E-mail: service@cer-mark.com



Page 36 of 72

Report No.: HK2411056538-2E

J.

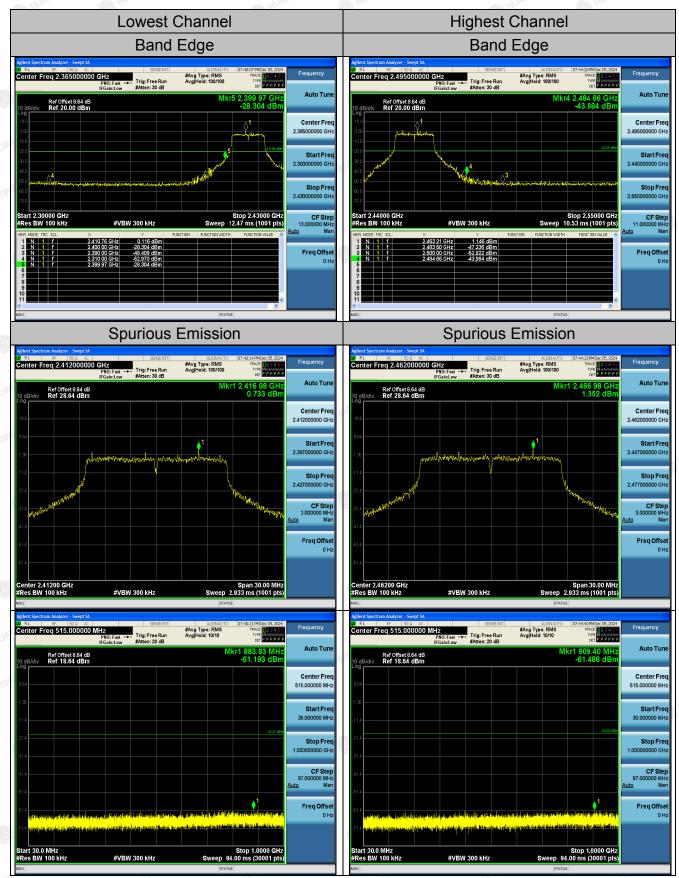


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



802.11g Modulation



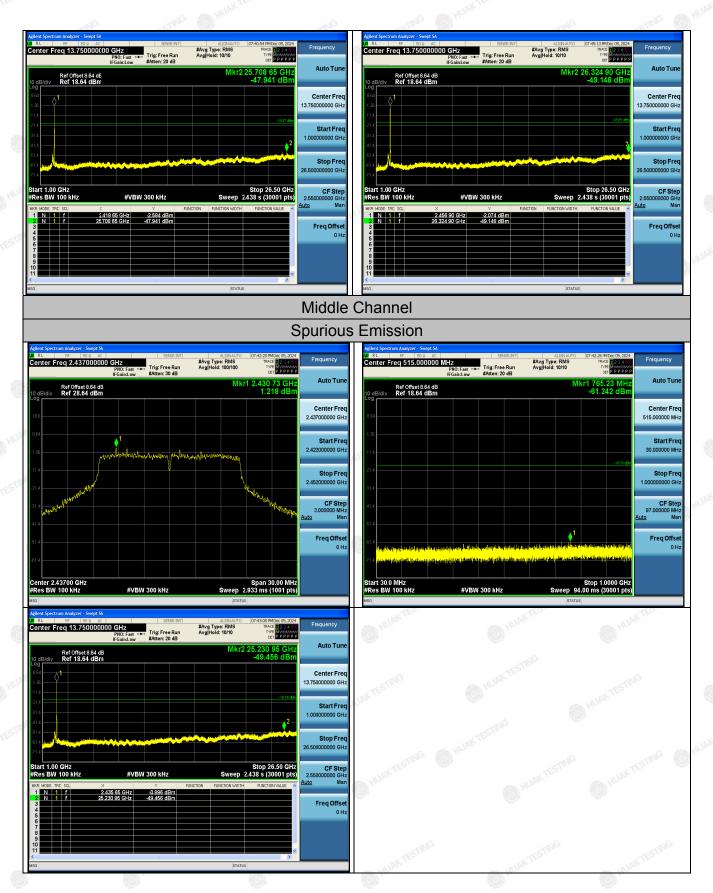
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 38 of 72

FICATION

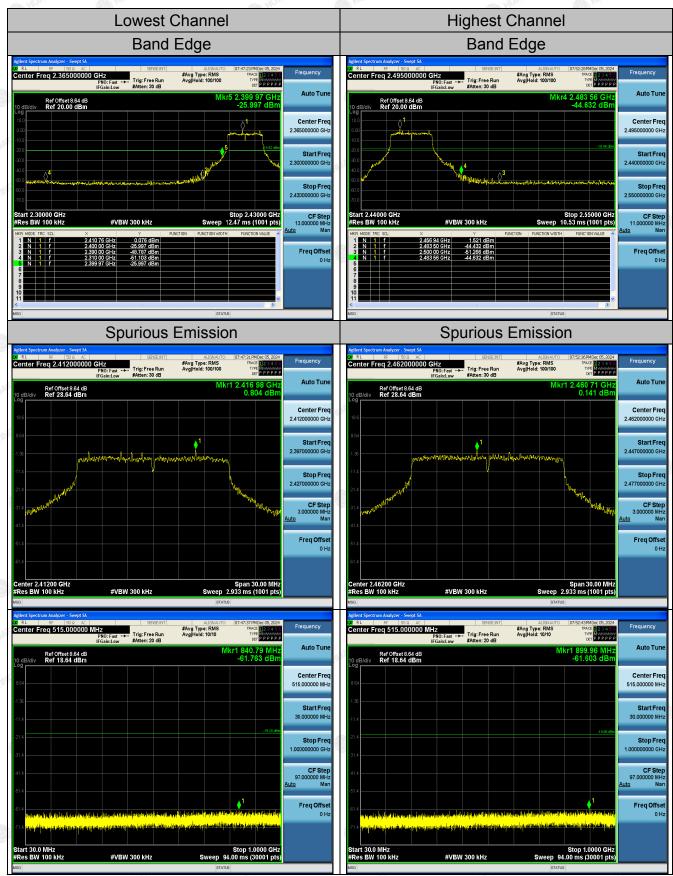


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



802.11n (HT20) Modulation



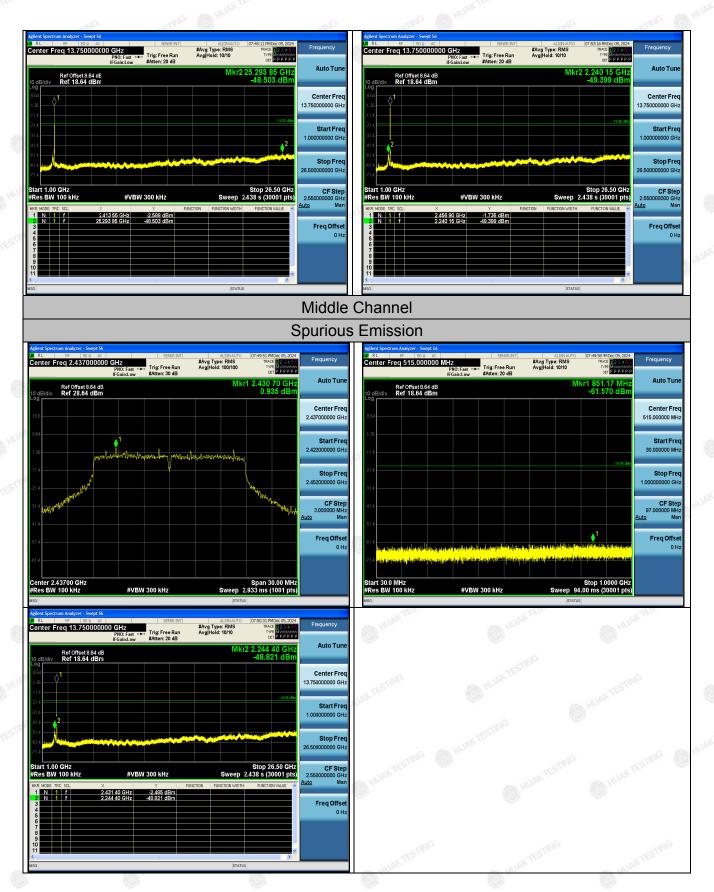
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 40 of 72

EST FIF



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

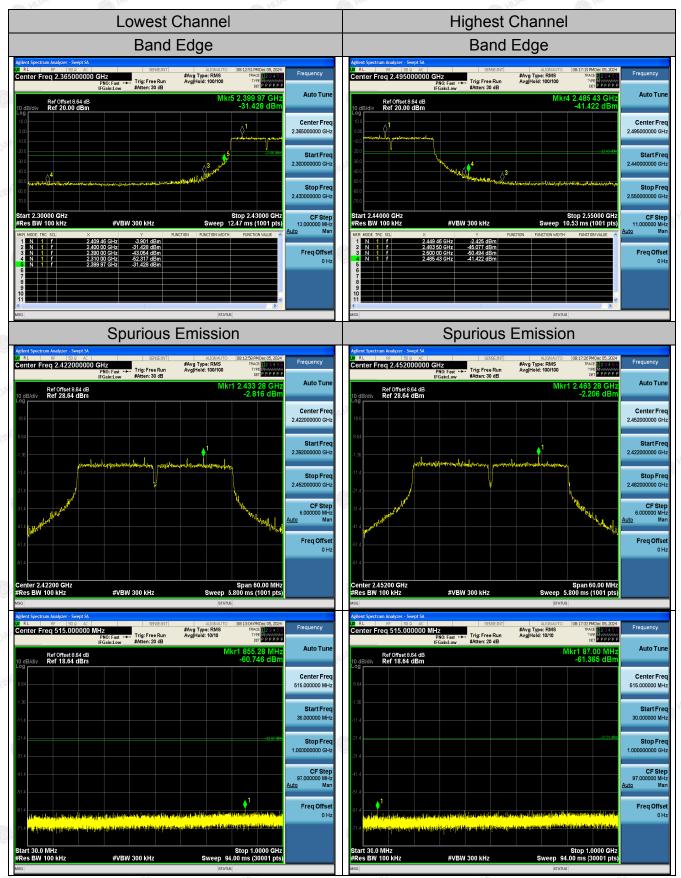


Page 41 of 72

NG

¦К

802.11n (HT40) Modulation



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

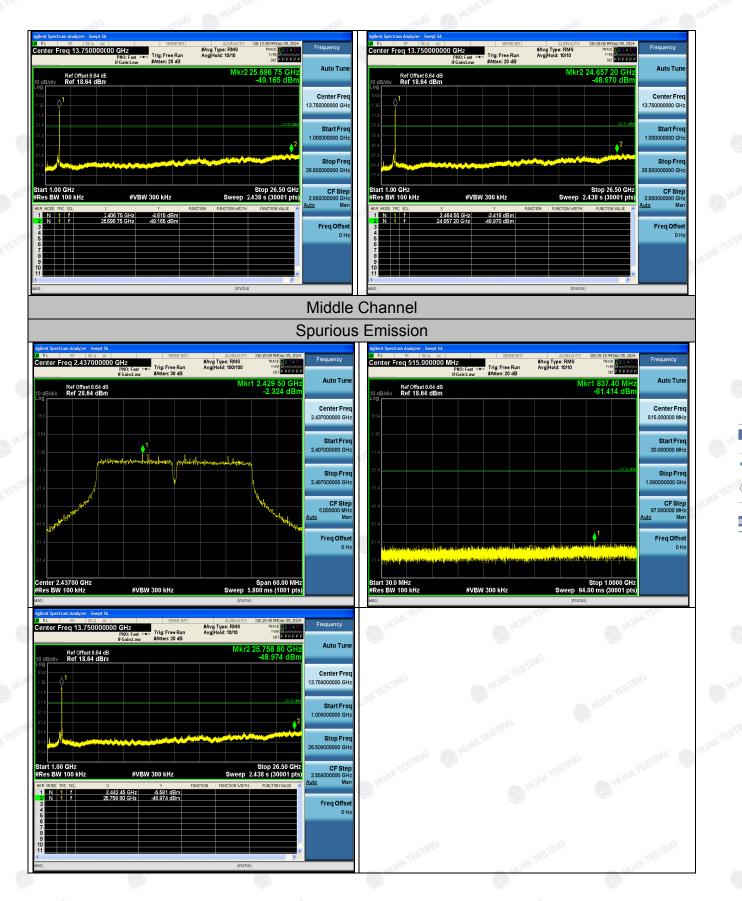
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 42 of 72

Report No.: HK2411056538-2E

J,



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



4.7. Radiated Spurious Emission Measurement

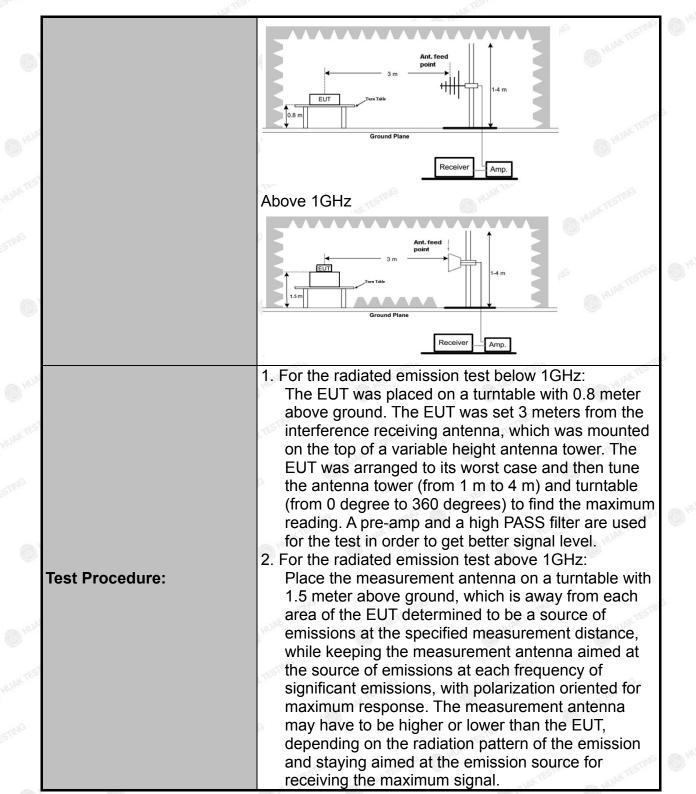
Test Specification

Test Requirement:	FCC Part15	C Section	15.209			
Test Method:	ANSI C63.10: 2013					C HUAN
Frequency Range:	9 kHz to 25 (GHz		CTING		
Measurement Distance:	3 m	TESTING	A HU	AKTES		TESTING
Antenna Polarization:	Horizontal &	Vertical	<u> </u>		0	HUAR
Operation mode:	Transmitting	mode with	modulati	ion		
	Frequency	Detector	RBW	VBW	STIME	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quas	si-peak Valu
Receiver Setup:	150kHz- 30MHz	Quasi-peak	9kHz	30kHz		si-peak Valu
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quas	si-peak Valu
	TING	Peak	1MHz	3MHz		eak Value
	Above 1GHz	Peak	1MHz	10Hz		erage Value
	Frequen	ю	Field Stre (microvolts/	-	Measurement Distance (meters)	
	0.009-0.4	490	2400/F(ł	(Hz)	300	
	0.490-1.7	705	24000/F(KHz)	30	
	1.705-3		30			30
	30-88		100	lar		3
	88-216		150			3
Limit:	216-96	200	1.54	STING	3 6	
	Above 9	500	HUAK		3	
	0	9		(U)		Ś
	Frequency		Strength olts/meter)	Measure Distan (meter	се	Detector
	ALL ALL ALL	WAY I	500		,	Average
	Above 1GHz	2 (O) [()	5000	3		Peak
Test setup:	For radiated	3 m Tura Tale Ground Plane				uni restric
	30MHz to 10	GHz 🚽				

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



CATION



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



	- 100
A	The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum
	emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
D HUP	 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
NY TES	4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission
ne -	measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings:
0	 (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥RBW;
	Sweep = auto; Detector function = peak; Trace = max hold;
2 mil	 (3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement.
AKTES	6.For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent.VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the
MG	minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test results:	PASS

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



HEST H

Test Instruments

	Rad	iated Emission	Test Site (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	Feb. 19, 2025
Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 20, 2024	Feb. 19, 2025
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 21, 2024	Feb. 20, 2026
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	EMCI	EMC051845S E	HKE-015	Feb. 20, 2024	Feb. 19, 2025
Preamplifier	Agilent	83051A	HKE-016	Feb. 20, 2024	Feb. 19, 2025
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 21, 2024	Feb. 20, 2026
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 21, 2024	Feb. 20, 2026
Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 20, 2024	Feb. 19, 2025
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Feb. 20, 2024	Feb. 19, 2025
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable	Times	9kHz-1GHz	HKE-117	Feb. 20, 2024	Feb. 19, 2025
RF cable	Times	1-40G	HKE-034	Feb. 20, 2024	Feb. 19, 2025
Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Feb. 21, 2024	Feb. 20, 2026
RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	NAX TESTING	man resing One

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

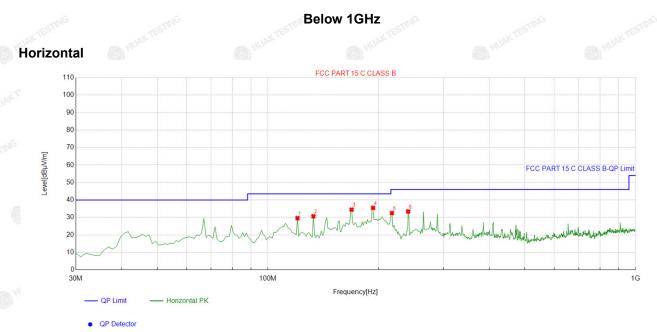
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Test Data

All the test modes completed for test. only the worst result of (802.11b at 2412MHz) was reported as below:



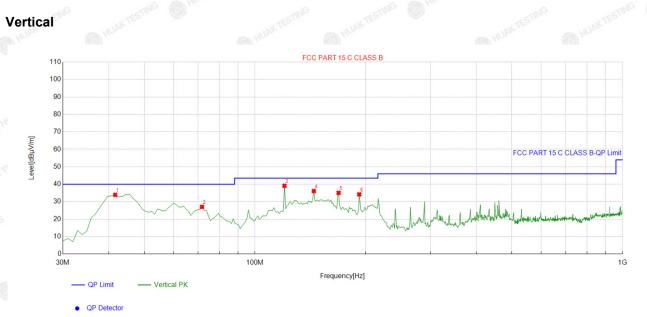
	Suspe	cted List								
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	120.3003	-16.19	45.81	29.62	43.50	13.88	100	277	Horizontal
8	2	132.92292	-17.24	47.94	30.70	43.50	12.80	100	146	Horizontal
	3	168.84884	-17.23	51.72	34.49	43.50	9.01	100	332	Horizontal
L	4	193.12312	-15.59	51.08	35.49	43.50	8.01	100	307	Horizontal
	5	217.39739	-14.66	47.18	32.52	46.00	13.48	100	208	Horizontal
	6	240.70070	-13.63	47.08	33.45	46.00	12.55	100	38	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com





Suspected List

	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polority
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
3-	1	41.651652	-13.41	47.32	33.91	40.00	6.09	100	98	Vertical
	2	71.751752	-17.38	44.40	27.02	40.00	12.98	100	109	Vertical
G	3	120.3003	-16.19	55.31	39.12	43.50	4.38	100	300	Vertical
	4	144.57457	-18.32	54.45	36.13	43.50	7.37	100	347	Vertical
	5	168.84884	-17.23	52.30	35.07	43.50	8.43	100	89	Vertical
	6	192.15215	-15.74	49.94	34.20	43.50	9.30	100	181	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

2	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
2	San G	LAKTES	- MAKTES
	- WANTES O	WING TO A	
	© [*]	· · · · · · · · · · · · · · · · · · ·	0 *
			WTESTING

Note:1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



-L

Above 1GHz

Radiated Emission Test

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	52.69	-3.64	49.05	74	-24.95	peak
4824	41.02	-3.64	37.38	54	-16.62	AVG
7236	51.81	-0.95	50.86	74	-23.14	peak
7236	37.93	-0.95	36.98	54	-17.02	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	50.39	-3.64	46.75	74	o -27.25	peak
4824	39.37	-3.64	35.73	54	-18.27	AVG
7236	48.13	-0.95	47.18	74	-26.82	peak
7236	39.98	-0.95	39.03	54	-14.97	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 50 of 72

FICATION

MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.05	-3.51	47.54	74	-26.46	peak
4874	43.06	-3.51	39.55	54	-14.45	AVG
7311	47.76	-0.82	46.94	74	-27.06	peak
7311	39.31	-0.82	38.49	54	-15.51	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.03	-3.51	47.52	74	-26.48	peak
4874	41.38	-3.51	37.87	54	-16.13	AVG
7311	49.46	-0.82	48.64	74	-25.36	peak
7311	38.85	-0.82	38.03	54	-15.97	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	53.65	-3.43	50.22	74	-23.78	peak
4924	40.73	-3.43	37.3	54	-16.7	AVG
7386	48.46	-0.75	47.71	74	-26.29	peak
7386	41.09	-0.75	40.34	54	-13.66	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	52.75	-3.43	49.32	74	-24.68	peak
4924	39.25	-3.43	35.82	54	-18.18	AVG
7386	50.97	-0.75	50.22	74	-23.78	peak
7386	38.64	-0.75	37.89	54	-16.11	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.

(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Page 52 of 72

E F

LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	50.44	-3.64	46.8	74	-27.2	peak
4824	42.93	-3.64	39.29	54	-14.71	AVG
7236	50.07	-0.95	49.12	74	-24.88	peak
7236	38.02	-0.95	37.07	54	-16.93	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	50.07	-3.64	46.43	74	-27.57	peak
4824	41.13	-3.64	37.49	54	-16.51	AVG
7236	48.44	-0.95	47.49	74	-26.51	peak
7236	39.37	-0.95	38.42	54	-15.58	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 53 of 72

NG

IK Per

MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	j Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	53.25	-3.51	49.74	74	-24.26	peak
4874	39.74	-3.51	36.23	54	-17.77	AVG
7311	47.93	-0.82	47.11	74	-26.89	peak
7311	38.05	-0.82	37.23	54	-16.77	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	52.13	-3.51	48.62	74	-25.38	peak
s ⁴⁸⁷⁴	42.68	-3.51	39.17	54	-14.83	AVG
7311	46.78	-0.82	45.96	74	-28.04	peak
7311	40.18	-0.82	39.36	54	-14.64	AVG
Remark: Factor Level-Limit.	r = Cable loss + Ant	enna factor + .	Attenuator – Pream	plifier; Level =	Reading + Fac	tor; Margin =

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	49.58	-3.43	46.15	74 👩	-27.85	peak
4924	41.52	-3.43	38.09	54	-15.91	AVG
7386	51.24	-0.75	50.49	74 m ¹⁴	-23.51	peak
7386	38.94	-0.75	38.19	54	-15.81	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	51.18	-3.43	47.75	74	-26.25	peak
4924	41.88	-3.43	38.45	54	-15.55	AVG
7386	50.81	-0.75	50.06	74	-23.94	peak
7386	41.37	-0.75	40.62	54	-13.38	AVG

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.

(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	^{∬©} (dBµV/m)	(dB)	Туре
4824	51.78	-3.64	48.14	74	-25.86	peak
4824	40.41	-3.64	36.77	54	-17.23	AVG
7236	51.96	-0.95	51.01	74	-22.99	peak
7236	39.58	-0.95	38.63	54	-15.37	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	[©] (dBµV/m)	(dB)	Туре
4824	50.16	-3.64	46.52	74	-27.48	peak
4824	38.57	-3.64	34.93	54	-19.07	AVG
7236	50.23	-0.95	49.28	74	-24.72	peak
7236	37.99	-0.95	37.04	54	-16.96	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 56 of 72

FICATION

MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	51.35	-3.51	47.84	74.00	-26.16	peak
4874	39.55	-3.51	36.04	54.00	-17.96	AVG
7311	47.79	-0.82	46.97	74.00	-27.03	peak
7311	39.73	-0.82	38.91	54.00	-15.09	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	📣 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	49.69	-3.51	46.18	74.00	-27.82	peak
4874	43.00	-3.51	39.49	54.00	-14.51	AVG
7311	50.07	-0.82	49.25	74.00	-24.75	peak
7311	37.45	-0.82	36.63	54.00	-17.37	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 57 of 72

HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Reading Result	Factor	Emission Level	Limits	Margin	Detector Tree
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
50.51	-3.43	47.08	74	-26.92	peak
39.71	-3.43	36.28	54	-17.72	AVG
51.92	-0.75	51.17	74	-22.83	peak
39.58	-0.75	38.83	54	-15.17	AVG
	(dBµV) 50.51 39.71 51.92	(dBµV) (dB) 50.51 -3.43 39.71 -3.43 51.92 -0.75	(dBµV) (dB) (dBµV/m) 50.51 -3.43 47.08 39.71 -3.43 36.28 51.92 -0.75 51.17	(dBµV) (dB) (dBµV/m) (dBµV/m) 50.51 -3.43 47.08 74 39.71 -3.43 36.28 54 51.92 -0.75 51.17 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 50.51 -3.43 47.08 74 -26.92 39.71 -3.43 36.28 54 -17.72 51.92 -0.75 51.17 74 -22.83

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	52.47	-3.43	49.04	74	-24.96	peak
4924	40.35	-3.43	36.92	54	-17.08	AVG
7386	49.89	-0.75	49.14	74	-24.86	peak
7386	37.72	-0.75	36.97	54	-17.03	AVG
Remark: Factor Level-Limit.	r = Cable loss + Ante	enna factor +	Attenuator – Pream	plifier; Level = I	Reading + Fac	ctor; Margin =

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 58 of 72

FIF

LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data atan Tung
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4844	51.73	-3.63	48.1	74	-25.9	peak
4844	42.01	-3.63	38.38	54	-15.62	AVG
7266	49.15	-0.94	48.21	74	-25.79	peak
7266	40.67	-0.94	39.73	54	-14.27	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4844	52.12	-3.63	48.49	74	-25.51	peak
4844	39.42	-3.63	35.79	54	-18.21	AVG
7266	49.32	-0.94	48.38	74	-25.62	peak
7266	39.00	-0.94	38.06	54	-15.94	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 59 of 72

NG

PB PB

MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Trace
p.K.T	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
-	4874	51.73	-3.51	48.22	74	-25.78	peak
2,1	4874	44.35	-3.51	40.84	54	-13.16	AVG
	7311	49.93	-0.82	49.11	74	-24.89	peak
	7311	38.97	-0.82	38.15	54	-15.85	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
4874	49.61	-3.51	46.1	74	-27.9	peak
4874	40.61	-3.51	37.1	54	-16.9	AVG
7311	47.32	-0.82	46.5	74	-27.5	peak
7311	38.85	-0.82	38.03	54	-15.97	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 60 of 72

HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data atau Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4904	50.66	-3.43	47.23	74	-26.77	peak
4904	38.75	-3.43	35.32	54	-18.68	AVG
7356	48.90	-0.75	48.15	74	-25.85	peak
7356	36.64	-0.75	35.89	54	-18.11	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Turne
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4904	52.25	-3.43	48.82	74	-25.18	peak
4904	42.76	-3.43	39.33	54	-14.67	AVG
7356	49.38	-0.75	48.63	74	-25.37	peak
7356	39.84	-0.75	39.09	54	-14.91	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.</p>

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Test Result of Radiated Spurious at Band edges

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	49.32	-5.81	43.51	74	-30.49	peak
2310.00	39.83	-5.81	34.02	54	-19.98	AVG
2390.00	48.13	-5.84	42.29	74	-31.71	peak
2390.00	38.79	-5.84	32.95	54	-21.05	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	HUAKTESTAL
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	49.67	-5.81	43.86	74	-30.14	peak
2310.00	41.29	-5.81	35.48	54	-18.52	AVG
2390.00	50.36	-5.84	44.52	74	-29.48	peak
2390.00	37.52	-5.84	31.68	si ⁶⁰ 54	-22.32	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



ICATION

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	52.42	-5.81	46.61	74	-27.39	peak
2483.50	41.58	-5.81	35.77	54	-18.23	AVG
2500.00	51.53	-6.06	45.47	74	-28.53	peak
2500.00	39.48	-6.06	33.42	54	-20.58	AVG

Vertical:

	and have a second	When a	All Inc.		UP.	AL II.
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Typ
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	STING
2483.50	53.92	-5.81	48.11	74	-25.89	peak
2483.50	42.31	-5.81	36.5	54	-17.5	AVG
2500.00	51.27	-6.06	45.21	74	-28.79	peak
2500.00	39.55	-6.06	33.49	54	-20.51	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	49.04	-5.81	43.23	74 MU ^M	-30.77	peak
2310.00	40.65	-5.81	34.84	54	-19.16	AVG
2390.00	47.32	-5.84	41.48	74	-32.52	peak
2390.00	40.16	-5.84	34.32	54	-19.68	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits 🔘	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	50.25	-5.81	44.44	74	-29.56	peak
2310.00	43.34	-5.81	37.53	54	-16.47	AVG
2390.00	52.11	-5.84	46.27	74	-27.73	peak
2390.00	38.37	-5.84	32.53	54	-21.47	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level-Limit.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 64 of 72

Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	🔎 Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	52.38	-5.65	46.73	74	-27.27	peak
2483.50	41.18	-5.65	35.53	54	-18.47	AVG
2500.00	47.97	-5.65	42.32	74	-31.68	peak
2500.00	38.59	-5.65	32.94	54	-21.06	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	51.08	-5.65	45.43	74 w ^M	-28.57	peak
2483.50	39.98	-5.65	34.33	54	-19.67	AVG
2500.00	50.33	-5.65	44.68	74	-29.32	peak
2500.00	39.37	-5.65	33.72	54	-20.28	AVG

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



IK PB

Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	50.97	-5.81	45.16	74	-28.84	peak
2310.00	42.21	-5.81	36.4	54	-17.6	AVG
2390.00	48.07	-5.84	42.23	74	-31.77	peak
2390.00	39.93	-5.84	34.09	54	-19.91	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	51.94	-5.81	46.13	74 NOM	-27.87	peak
2310.00	42.25	-5.81	36.44	54	-17.56	AVG
2390.00	49.21	-5.84	43.37	74	-30.63	peak
2390.00	38.83	-5.84	32.99	54	-21.01	AVG

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	54.22	-5.65	48.57	74 MUN	-25.43	peak
2483.50	40.65	-5.65	35	54	-19 🌑	AVG
2500.00	49.38	-5.65	43.73	74	-30.27	peak
2500.00	39.52	-5.65	33.87	54	-20.13	AVG

Vertical:

	- ulpr	" AAU	-nglm		MAR	n pr
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	TESTING
2483.50	52.16	-5.65	46.51	74	-27.49	peak
2483.50	40.46	-5.65	34.81	54	-19.19	AVG
2500.00	46.05	-5.65	40.4	74	-33.6	peak
2500.00	37.62	-5.65	31.97	54	-22.03	AVG

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	52.01	-5.81	46.2	74	-27.8	peak
2310.00	ESTIN /	-5.81	ANAL ESTIN	54	1	AVG
2390.00	51.17	-5.84	45.33	74	-28.67	peak
2390.00	AUA	-5.84	/	54	1	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	55.62	-5.81	49.81	74 MA	-24.19	peak
2310.00	/	-5.81	0 ^m /	54	1 🔘	AVG
2390.00	55.12	-5.84	49.28	74	-24.72	peak
2390.00	UAKTES /	-5.84	Star INANTES IN	54	MAX TSTIN	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = _evel-Limit.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Operation Mode: TX CH High (2452MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	52.16	-5.65	46.51	74	-27.49	peak
2483.50	1	-5.65	· /	54	/ 0	AVG
2500.00	50.92	-5.65	45.27	74	-28.73	peak
2500.00	plante /	-5.65	- AUANTIC	54	- HUAK TES	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	51.56	-5.65	45.91	74	-28.09	peak
2483.50	- mul O HUA	-5.65	NG /	54	1	AVG
2500.00	56.06	-5.65	50.41	74	-23.59	peak
2500.00	/	-5.65	1	54	1	AVG

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.

3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL:+86-755 2302 9901 FAX:+86-755 2302 9901 E-mail: service@cer-mark.com



4.8. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

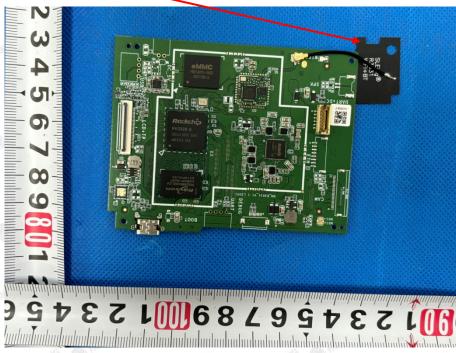
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is an Internal antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0.71dBi.

Antenna



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



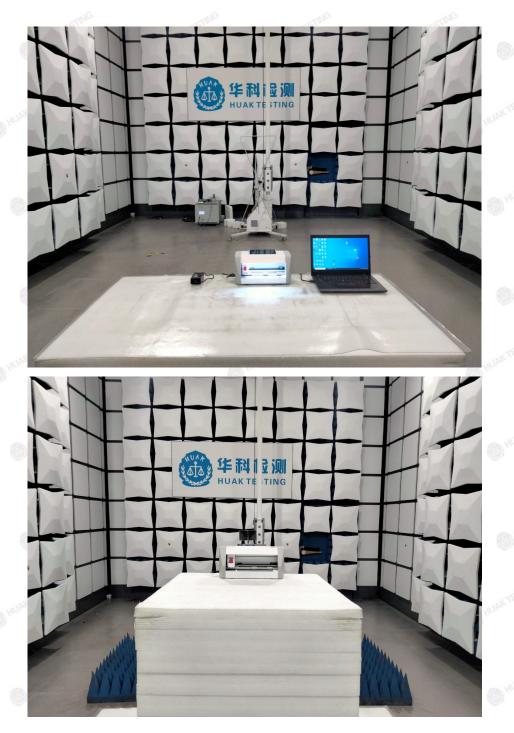
Page 70 of 72

TING

HK

5. Photograph of Test

Radiated Emissions



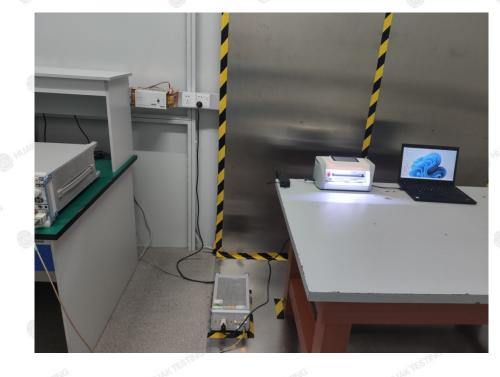
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 71 of 72

Conducted Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com/

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



IFICATION

6. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

----End of test report--

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com