

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 EUT							
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							

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Test Instruments

	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						

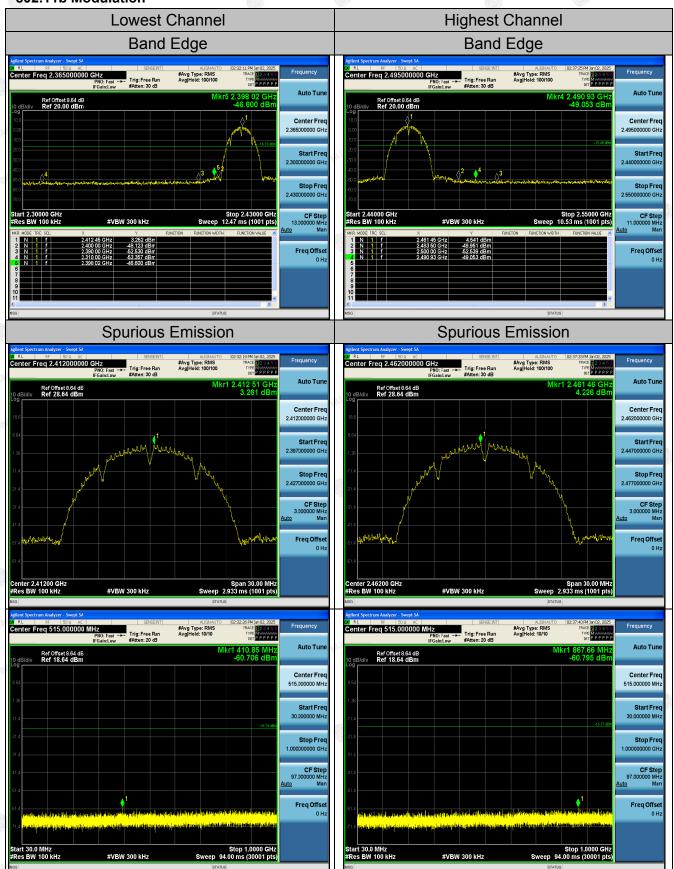
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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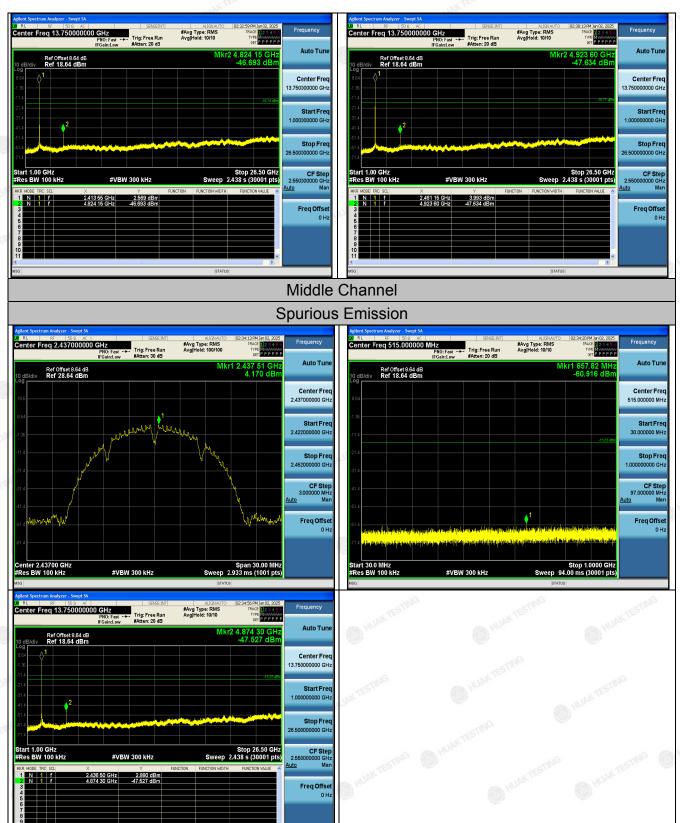


Test Data

802.11b Modulation

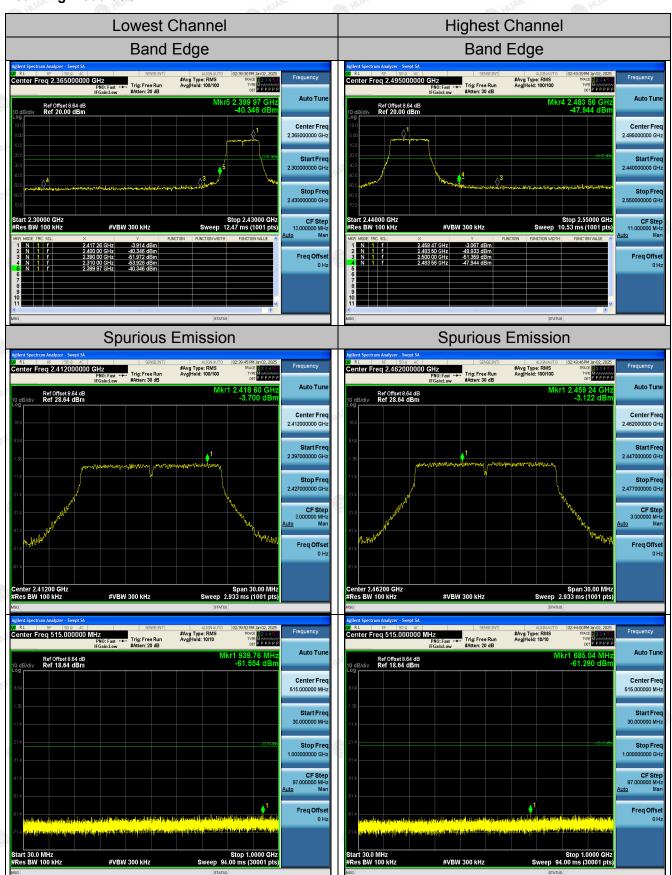


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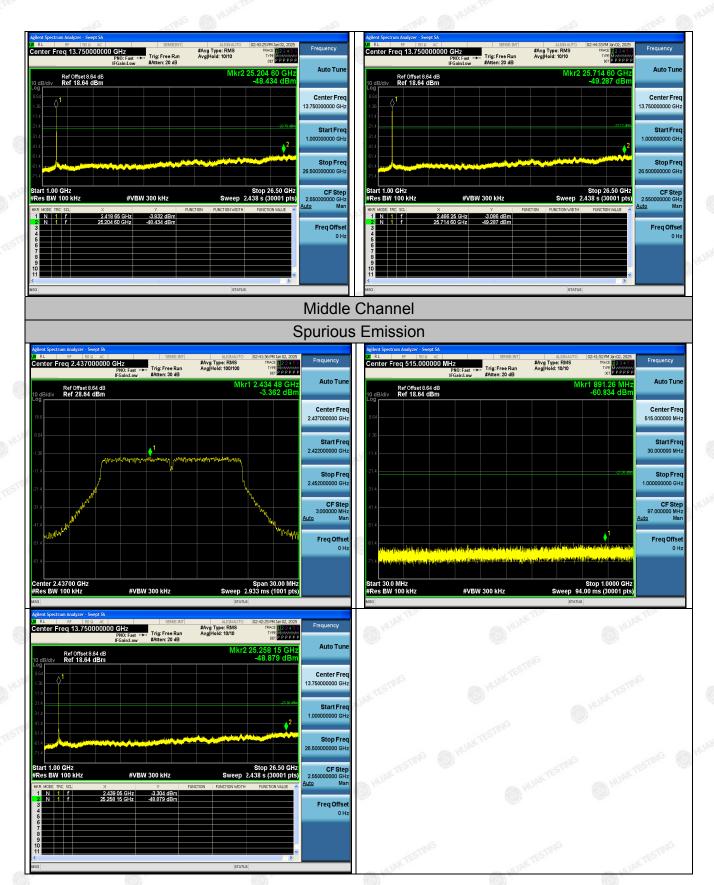


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802.11g Modulation

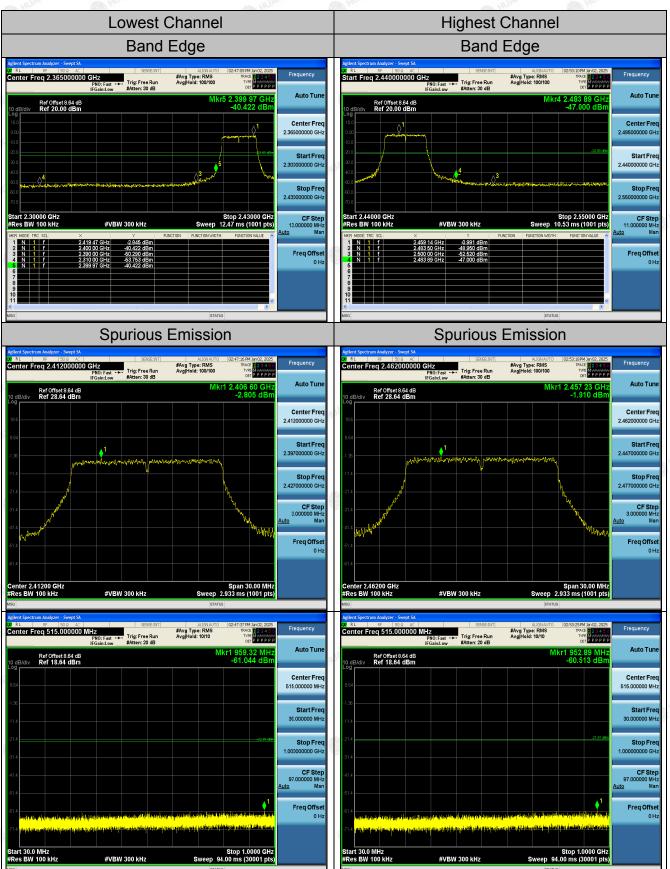


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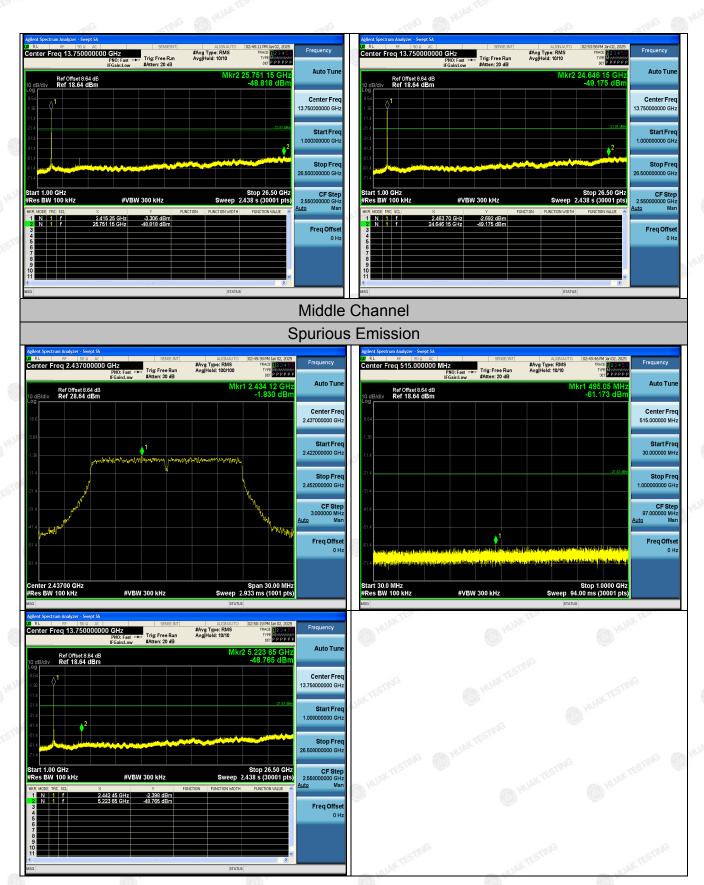
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802.11n (HT20) Modulation



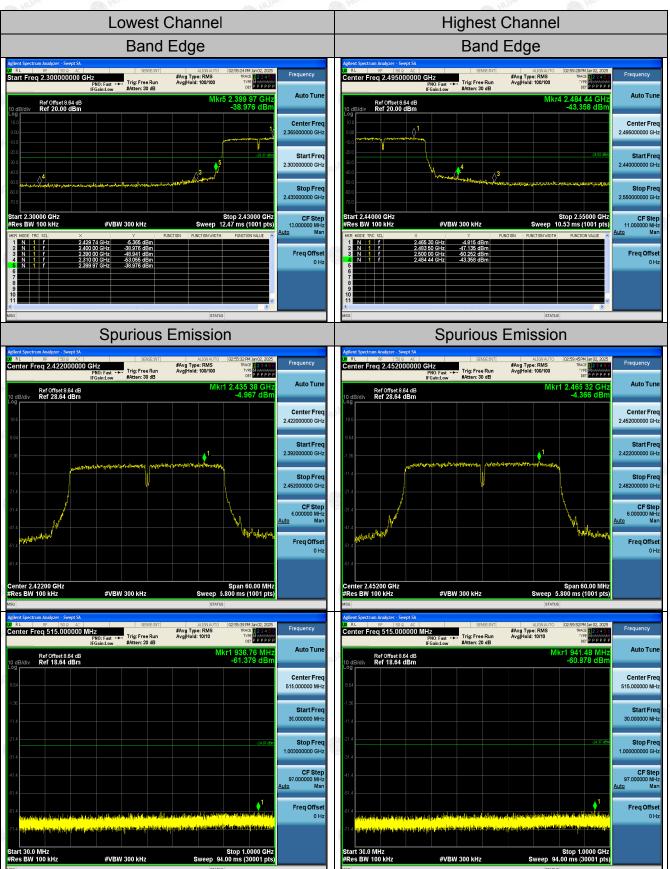
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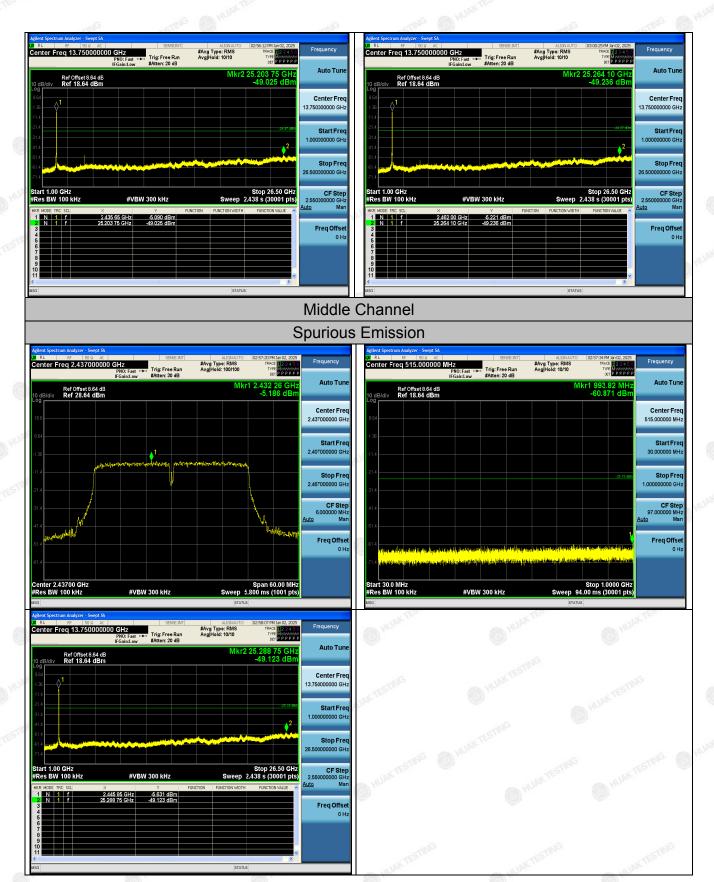
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802.11n (HT40) Modulation



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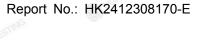


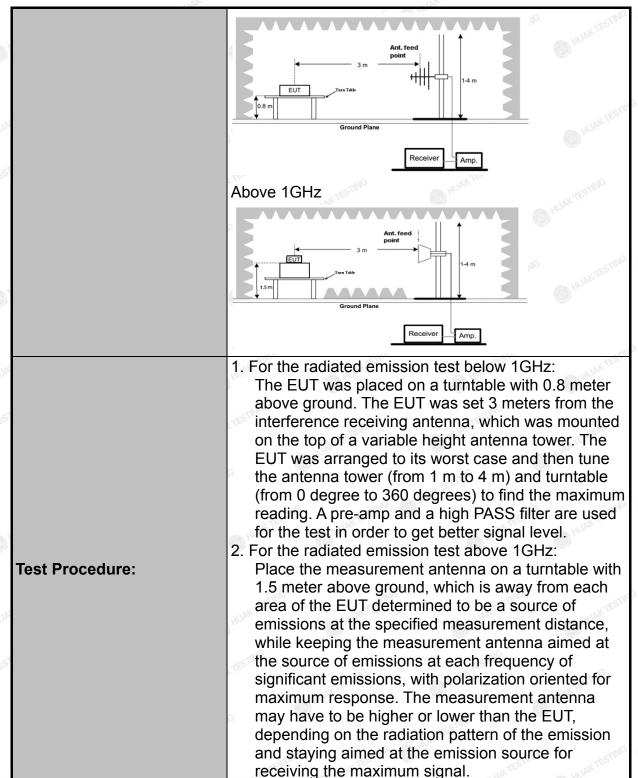
4.7. Radiated Spurious Emission Measurement

Test Specification

Test Requirement:	FCC Part15	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10	ANSI C63.10: 2013							
Frequency Range:	9 kHz to 25 (9 kHz to 25 GHz							
Measurement Distance:	3 m	3 m							
Antenna Polarization:	Horizontal &	Vertical				0	HUAR		
Operation mode:	Transmitting	mode w	vith	modulati	on				
	Frequency 9kHz- 150kHz	Detector Quasi-pe	ak	RBW 200Hz	VBW 1kHz	Quas	Remark si-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-pe		9kHz 120KHz	30kHz 300KHz		si-peak Value		
	30MHz-1GHz Above 1GHz	Quasi-pe Peak Peak	45.4	1MHz 1MHz	3MHz 10Hz	Р	si-peak Value eak Value erage Value		
	Frequen	(33)		Field Stre	ngth	Measurement Distance (meters)			
	0.009-0.490 0.490-1.705			2400/F(KHz) 24000/F(KHz)		300 30			
	1.705-3			30			30		
	30-88 88-216			100 150			3		
Limit:	216-96		W.C.	200			3		
	1/1/4	Above 960			500 3				
	Frequency		Field Strength (microvolts/meter)		Measure Distan (mete	се	Detector		
	Above 1GHz	O FURN TE	500 5000		3 3		Average Peak		
Test setup:	For radiated	Turn Table Ground	ns	below 30	-NG		JAK TESTING		
	30MHz to 10	SHz	STING		TESTI	JG	TESTI		

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"IAK"	JACA .
	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. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 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 measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (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; (3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement. 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 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:	IPASS (A)

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Test Instruments

lu.	Rad	iated Emission	Test Site (966	3)	MAN CONTRACTOR
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	J ISTING	HUANTESTING MILIAM

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

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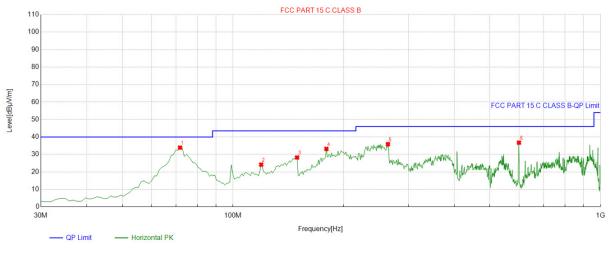


Test Data

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

Below 1GHz

Horizontal

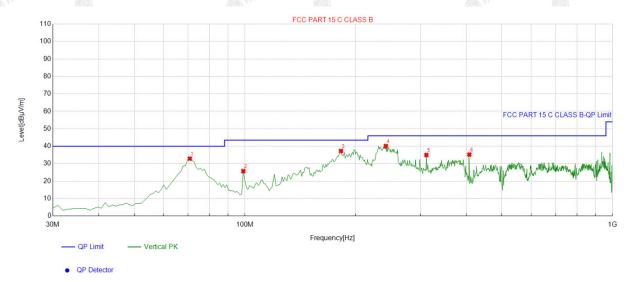


Suspe	cted List								
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	71.751752	-17.38	51.29	33.91	40.00	6.09	100	0	Horizontal
2	119.32932	-15.94	40.13	24.19	43.50	19.31	100	331	Horizontal
3	149.42942	-18.08	46.36	28.28	43.50	15.22	100	33	Horizontal
4	179.52953	-16.59	49.79	33.20	43.50	10.30	100	121	Horizontal
5	264.00400	-13.15	49.04	35.89	46.00	10.11	100	149	Horizontal
6	599.95996	-5.33	42.09	36.76	46.00	9.24	100	246	Horizontal

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

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Vertical



Suspe	ected List								
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	70.780781	-16.89	49.77	32.88	40.00	7.12	100	8	Vertical
2	98.938939	-14.83	40.59	25.76	43.50	17.74	100	252	Vertical
3	182.44244	-15.91	53.19	37.28	43.50	6.22	100	149	Vertical
4	241.67167	-13.52	53.66	40.14	46.00	5.86	100	144	Vertical
5	311.58158	-11.70	46.68	34.98	46.00	11.02	100	144	Vertical
6	407.70770	-9.71	44.94	35.23	46.00	10.77	100	1	Vertical

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

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

3	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)		
	CITY G	AKTEC	- WAYTE -		
	HUAKTE	THE WALL	HUANTE		
	<u> </u>	W	(W)		
	JAKTE		AKTES!"		

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.

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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	51.66	-3.64	48.02	74	-25.98	peak
4824	39.93	-3.64	36.29	54	-17.71	AVG
7236	50.72	-0.95	49.77	74	-24.23	peak
7236	37.57	-0.95	36.62	54	-17.38	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	51.18	-3.64	47.54	74	-26.46	peak
4824	40.14	-3.64	36.5	54	-17.5	AVG
7236	49.67	-0.95	48.72	74	-25.28	peak
7236	40.09	-0.95	39.14	54	-14.86	AVG

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

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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	50.83	-3.51	47.32	74	-26.68	peak
4874	42.31	-3.51	38.8	54	-15.2	AVG
7311	48.52	-0.82	47.7	74	-26.3	peak
7311	38.93	-0.82	38.11	54	-15.89	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)	Type
4874	52.27	-3.51	48.76	74	-25.24	peak
4874	41.01	-3.51	37.5	54	-16.5	AVG
7311	49.79	-0.82	48.97	74	-25.03	peak
7311	37.88	-0.82	37.06	54	-16.94	AVG

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

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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	52.93	-3.43	49.5	74	-24.5	peak
₆ 4924	40.02	-3.43	36.59	54	-17.41	AVG
7386	49.68	-0.75	48.93	74	-25.07	peak
7386	40.27	-0.75	39.52	54	-14.48	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)	Type
1	4924	52.41	-3.43	48.98	74	-25.02	peak
	4924	39.46	-3.43	36.03	54	-17.97	AVG
5	7386	51.27	-0.75	50.52	74	-23.48	peak
	7386	37.98	-0.75	37.23	54	-16.77	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.

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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	50.61	-3.64	46.97	74	-27.03	peak
4824	43.48	-3.64	39.84	54	-14.16	AVG
7236	49.58	-0.95	48.63	74	-25.37	peak
7236	37.96	-0.95	37.01	54 TEST	-16.99	AVG

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

Vertical:

45.5	-45/3		-15.0	1.15.5	-15.5	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	51.35	-3.64	47.71	74	-26.29	peak
4824	40.86	-3.64	37.22	54	-16.78	AVG
7236	48.72	-0.95	47.77	74	-26.23	peak
7236	39.19	-0.95	38.24	54	-15.76	AVG

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

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MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	53.27	-3.51	49.76	74	-24.24	peak
4874	40.12	-3.51	36.61	54	-17.39	AVG
7311	48.27	-0.82	47.45	74	-26.55	peak
7311	37.43	-0.82	36.61	54	-17.39	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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4874	52.15	-3.51	48.64	74	-25.36	peak
4874	43.01	-3.51	39.5	54	-14.5	AVG
7311	48.07	-0.82	47.25	74	-26.75	peak
7311	38.91	-0.82	38.09	54	-15.91	AVG

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

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HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4924	50.12	-3.43	46.69	74	-27.31	peak
4924	41.12	-3.43	37.69	54	-16.31	AVG
7386	50.55	-0.75	49.8	74 HUA	-24.2	peak
7386	40.35	-0.75	39.6	54	-14.4	AVG

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

Vertical:

		0.00			000	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	51.04	-3.43	47.61	74	-26.39	peak
4924	42.08	-3.43	38.65	54	-15.35	AVG
7386	49.24	-0.75	48.49	74	-25.51	peak
7386	41.21	-0.75	40.46	54	-13.54	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.

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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	52.06	-3.64	48.42	74	-25.58	peak
4824	42.16	-3.64	38.52	54	-15.48	AVG
7236	50.48	-0.95	49.53	74	-24.47	peak
7236	38.45	-0.95	37.5	54	-16.5	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	50.51	-3.64	46.87	74	-27.13	peak
4824	39.72	-3.64	36.08	54	-17.92	AVG
7236	48.38	-0.95	47.43	74	-26.57	peak
7236	37.31	-0.95	36.36	54	-17.64	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = I evel-I imit

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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	51.87	-3.51	48.36	74.00	-25.64	peak
4874	39.49	-3.51	35.98	54.00	-18.02	AVG
7311	47.38	-0.82	46.56	74.00	-27.44	peak
7311	39.21	-0.82	38.39	54.00	-15.61	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	50.41	-3.51	46.90	74.00	-27.10	peak
4874	43.73	-3.51	40.22	54.00	-13.78	AVG
7311	49.86	-0.82	49.04	74.00	-24.96	peak
7311	37.79	-0.82	36.97	54.00	-17.03	AVG

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

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HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	51.21	-3.43	47.78	74	-26.22	peak
4924	40.11	-3.43	36.68	54	-17.32	AVG
7386	51.81	-0.75	51.06	74	-22.94	peak
7386	39.57	-0.75	38.82	54	-15.18	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 Tune
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	53.48	-3.43	50.05	74	-23.95	peak
4924	40.89	-3.43	37.46	54	-16.54	AVG
7386	50.48	-0.75	49.73	74	-24.27	peak
7386	37.97	-0.75	37.22	54	-16.78	AVG

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

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LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	51.35	-3.63	47.72	74	-26.28	peak
4844	41.43	-3.63	37.8	54	-16.2	AVG
7266	50.28	-0.94	49.34	74	-24.66	peak
7266	40.88	-0.94	39.94	54	-14.06	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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	53.30	-3.63	49.67	74	-24.33	peak
4844	39.89	-3.63	36.26	54	-17.74	AVG
7266	49.00	-0.94	48.06	74	-25.94	peak
7266	40.02	-0.94	39.08	54	-14.92	AVG

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

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MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	51.67	-3.51	48.16	74	-25.84	peak
4874	43.98	-3.51	40.47	54	-13.53	AVG
7311	48.93	-0.82	48.11	74	-25.89	peak
7311	37.87	-0.82	37.05	54	-16.95	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data atau Tima
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	49.32	-3.51	45.81	74	-28.19	peak
4874	39.76	-3.51	36.25	54	-17.75	AVG
7311	46.58	-0.82	45.76	74	-28.24	peak
7311	39.13	-0.82	38.31	54	-15.69	AVG

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

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HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Frequency Meter Reading	Factor Emission Level	Limits	Margin	Data star Tura	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	51.08	-3.43	47.65	74	-26.35	peak
4904	38.25	-3.43	34.82	54	-19.18	AVG
7356	48.35	-0.75	47.6	74	-26.4	peak
7356	36.51	-0.75	35.76	54 TEST	-18.24	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detectal Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	50.54	-3.43	47.11	74	-26.89	peak
4904	41.83	-3.43	38.4	54	-15.6	AVG
7356	50.48	-0.75	49.73	74	-24.27	peak
7356	40.64	-0.75	39.89	54	-14.11	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 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.

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Test Result of Radiated Spurious at Band edges

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

	Deading Deadt	HUAK TES	Freieniam Fillia	HUAY	Manain	-STING
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	49.24	-5.81	43.43	74	-30.57	peak
2310.00	40.15	-5.81	34.34	54	-19.66	AVG
2390.00	49.45	-5.84	43.61	74	-30.39	peak
2390.00	38.57	-5.84	32.73	54	-21.27	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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	,,,,
2310.00	50.72	-5.81	44.91	74	-29.09	peak
2310.00	41.91	-5.81	36.1	54	-17.9	AVG
2390.00	49.86	-5.84	44.02	74	-29.98	peak
2390.00	36.78	-5.84	30.94	⁽¹⁾⁽⁵⁾ 54	-23.06	AVG

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

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	HUNKTESTA
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	_ Detector Type
2483.50	52.67	-5.81	46.86	74	-27.14	peak
2483.50	41.52	-5.81	35.71	54	-18.29	AVG
2500.00	51.31	-6.06	45.25	74	-28.75	peak
2500.00	40.14	-6.06	34.08	54	-19.92	AVG

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

Vertical:

	11/3	- 1/1	- 1111		1137	- 1//)
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	STING
2483.50	54.35	-5.81	48.54	74	-25.46	peak
2483.50	42.56	-5.81	36.75	54	-17.25	AVG
2500.00	50.45	-6.06	44.39	74	-29.61	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.



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

Horizontal

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Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	,,,
2310.00	48.68	-5.81	42.87	74 HUAY	-31.13	peak
2310.00	42.37	-5.81	36.56	54	-17.44	AVG
2390.00	46.36	-5.84	40.52	74	-33.48	peak
2390.00	40.09	-5.84	34.25	54	-19.75	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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	50.09	-5.81	44.28	74	-29.72	peak
2310.00	44.38	-5.81	38.57	54	-15.43	AVG
2390.00	51.87	-5.84	46.03	74	-27.97	peak
2390.00	38.44	-5.84	32.6	54	-21.4	AVG

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

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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)	_ Detector Type
2483.50	52.49	-5.65	46.84	74	-27.16	peak
2483.50	41.46	-5.65	35.81	54	-18.19	AVG
2500.00	47.74	-5.65	42.09	74	-31.91	peak
2500.00	37.63	-5.65	31.98	54	-22.02	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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	,
2483.50	51.28	-5.65	45.63	74 HUAY	-28.37	peak
2483.50	39.59	-5.65	33.94	54	-20.06	AVG
2500.00	50.44	-5.65	44.79	74	-29.21	peak
2500.00	39.69	-5.65	34.04	54	-19.96	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.

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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	50.73	-5.81	44.92	74	-29.08	peak
2310.00	41.87	-5.81	36.06	54	-17.94	AVG
2390.00	47.88	-5.84	42.04	74	-31.96	peak
2390.00	40.67	-5.84	34.83	54	-19.17	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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	51.27	-5.81	45.46	74	-28.54	peak
2310.00	41.58	-5.81	35.77	54	-18.23	AVG
2390.00	48.11	-5.84	42.27	74	-31.73	peak
2390.00	40.43	-5.84	34.59	54	-19.41	AVG

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

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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	53.96	-5.65	48.31	74	-25.69	peak
2483.50	39.95	-5.65	34.3	54	-19.7	AVG
2500.00	48.45	-5.65	42.8	74	-31.2	peak
2500.00	39.34	-5.65	33.69	54	-20.31	AVG

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

Vertical:

200	- 100	ALL PARTY OF THE P	ALTER 1777	A1200	(1)	ACCESS AND TO
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	V TESTING
2483.50	51.98	-5.65	46.33	74	-27.67	peak
2483.50	39.39	-5.65	33.74	54	-20.26	AVG
2500.00	46.55	-5.65	40.9	74	-33.1	peak
2500.00	38.36	-5.65	32.71	54	-21.29	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.

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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	53.16	-5.81	47.35	74	-26.65	peak
2310.00	STILL (-5.81	- JUAY/ESTING	54	1	AVG
2390.00	52.32	-5.84	46.48	74	-27.52	peak
2390.00	AUD HUDE	-5.84	1	54	1	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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)] "
2310.00	54.53	-5.81	48.72	74	-25.28	peak
2310.00	1	-5.81	O ** /	54	1 🔘	AVG
2390.00	55.84	-5.84	50	74	-24	peak
2390.00	UAK TES /	-5.84	HUAKTES	54	WAK TSTILL	AVG

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

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Operation Mode: TX CH High (2452MHz)

Horizontal

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Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	52.15	-5.65	46.5	74	-27.5	peak
2483.50	1	-5.65	· /	54	1	AVG
2500.00	50.91	-5.65	45.26	74	-28.74	peak
2500.00	JAKTE	-5.65	AUAKTE	54	AHAK TES	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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	MAKTESTING J
2483.50	53.09	-5.65	47.44	74	-26.56	peak
2483.50	TIME WHILE	-5.65	1 CTM	54	1	AVG
2500.00	57.27	-5.65	51.62	74	-22.38	peak
2500.00	1	-5.65	1	54	1	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.

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.



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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.

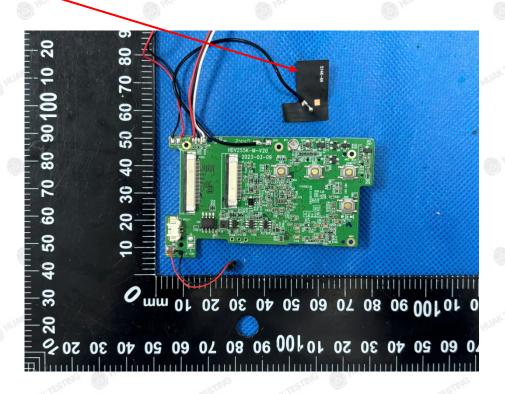
Refer to statement below for compliance.

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 1.36dBi.

Antenna

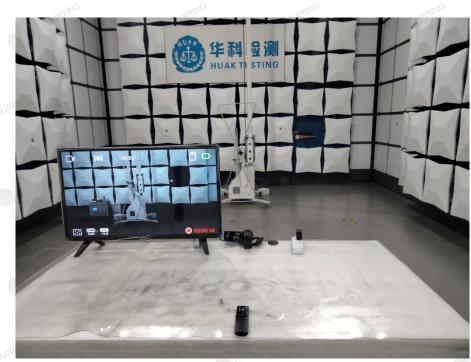


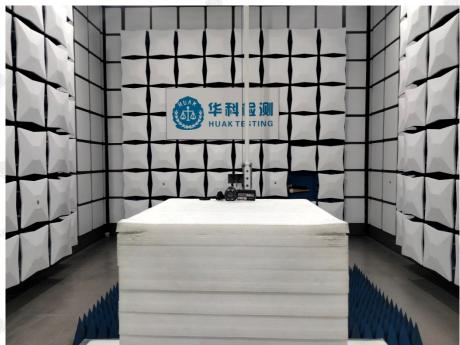
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5. Photograph of Test

Radiated Emissions





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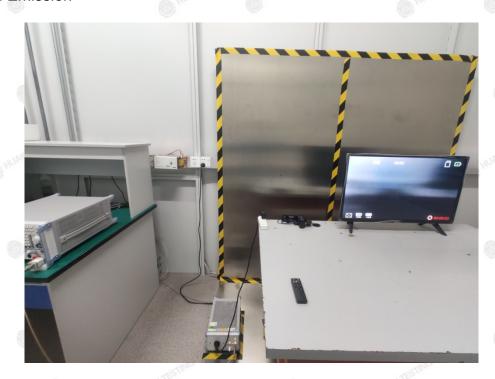
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





Conducted Emission



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6. Photos of the EUT

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

-----End of test report-----

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