

# 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:	<ol> <li>The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02.</li> <li>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.</li> <li>Set to the maximum power setting and enable the EUT transmit continuously.</li> <li>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).</li> <li>Measure and record the results in the test report.</li> <li>The RF fundamental frequency should be excluded against the limit line in the operating frequency band.</li> </ol>
Test Result:	PASS



### **Test Instruments**

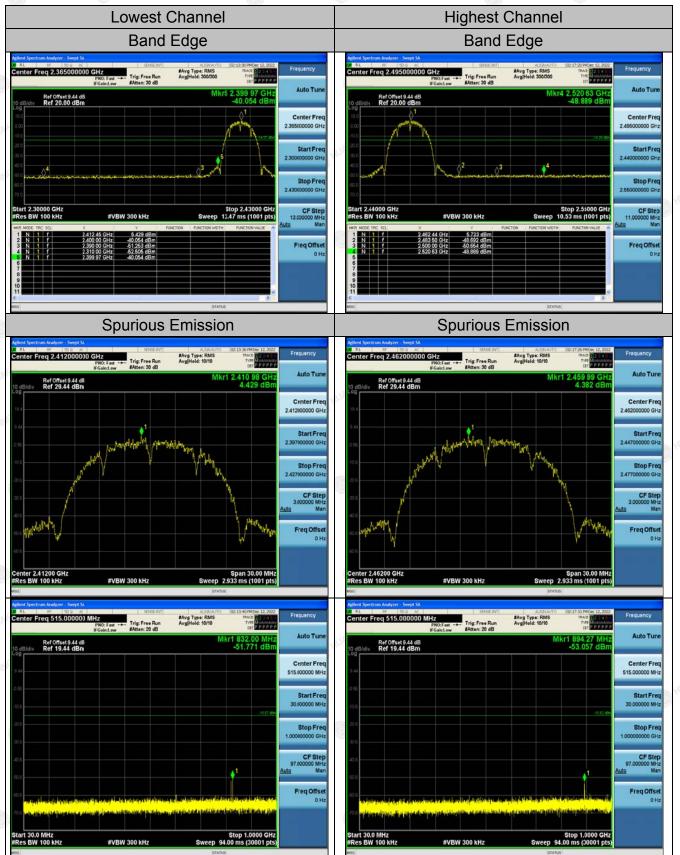
	RF Test Room									
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due					
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023					
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 18, 2022	Feb. 17, 2023					
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 18, 2022	Feb. 17, 2023					
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	Feb. 17, 2023					
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).

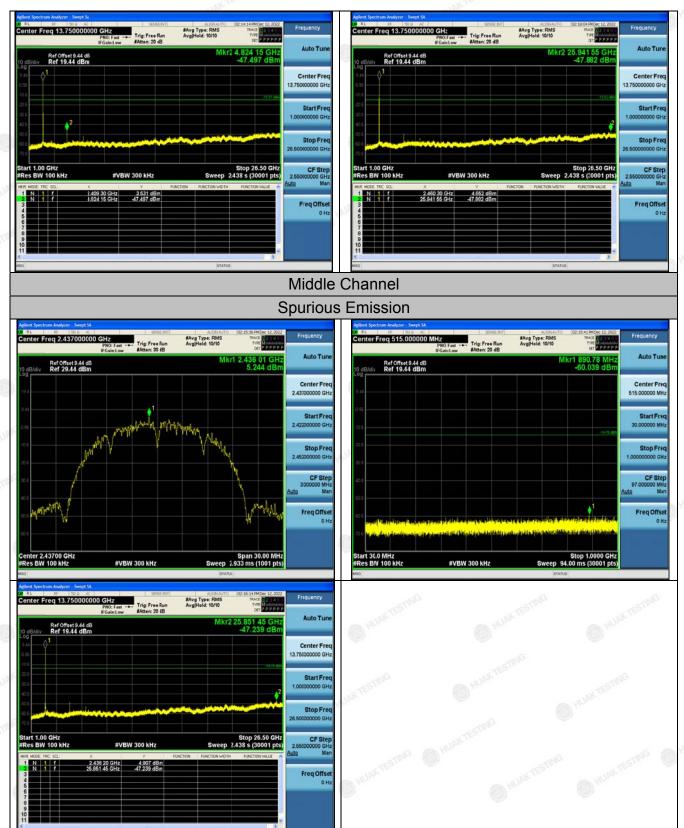


#### **Test Data**

#### 802.11b Modulation

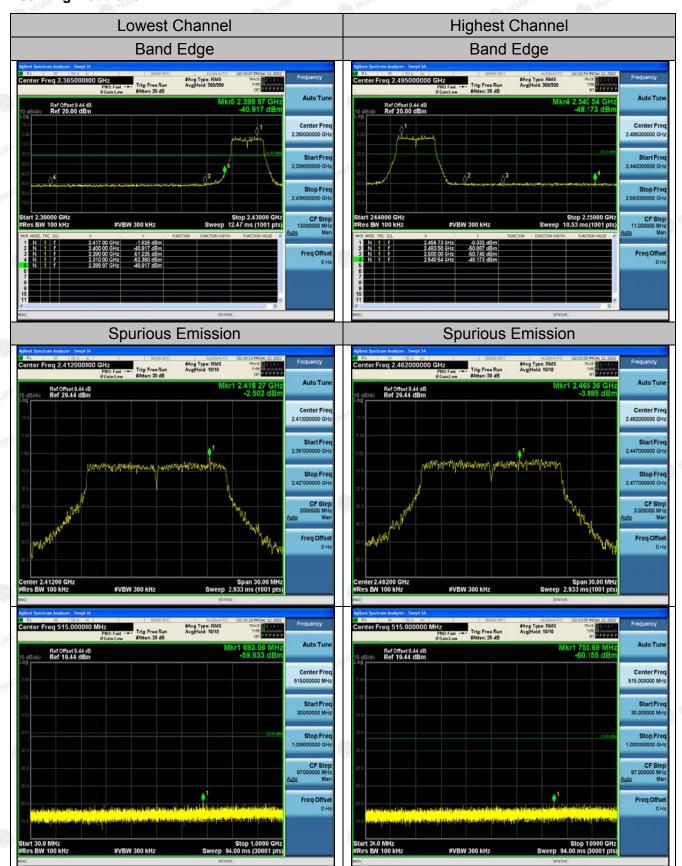




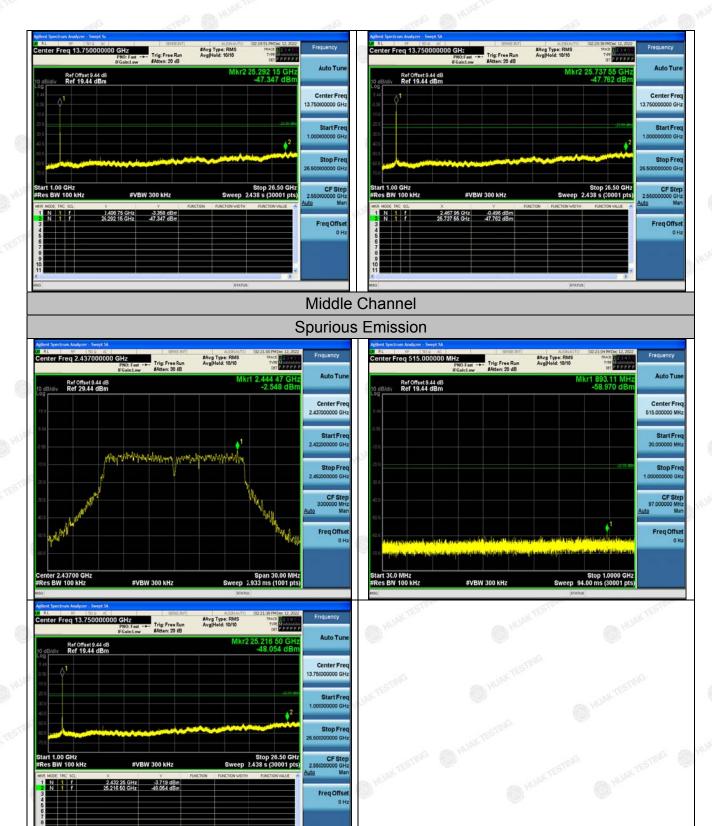




### 802.11g Modulation

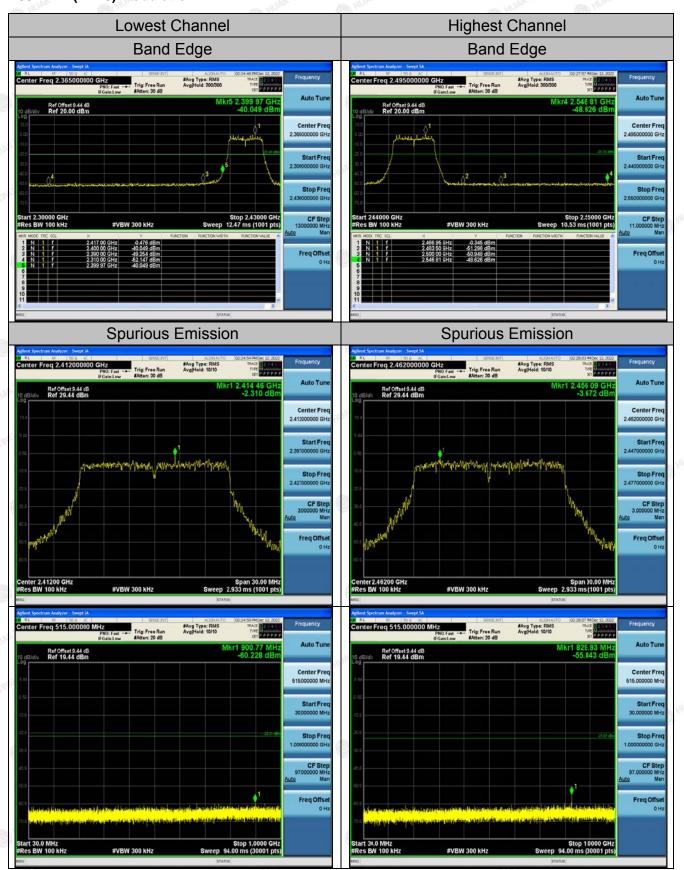


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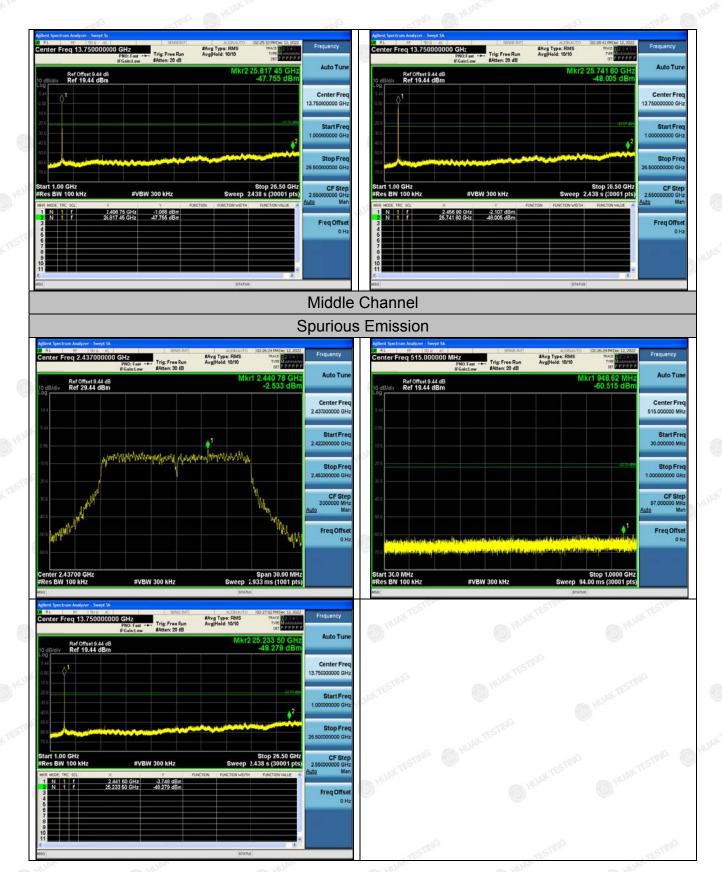




### 802.11n (HT20) Modulation

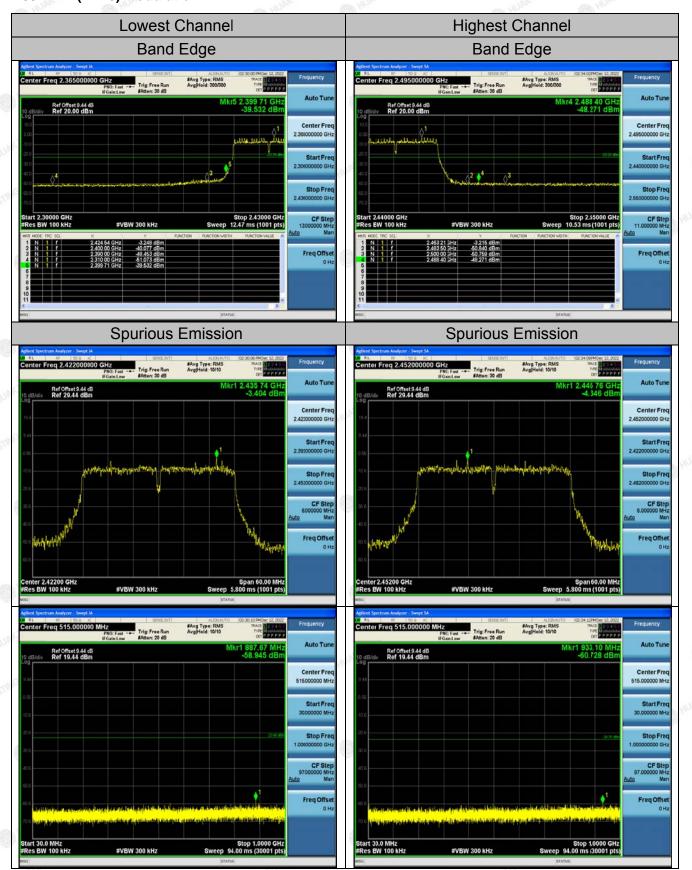




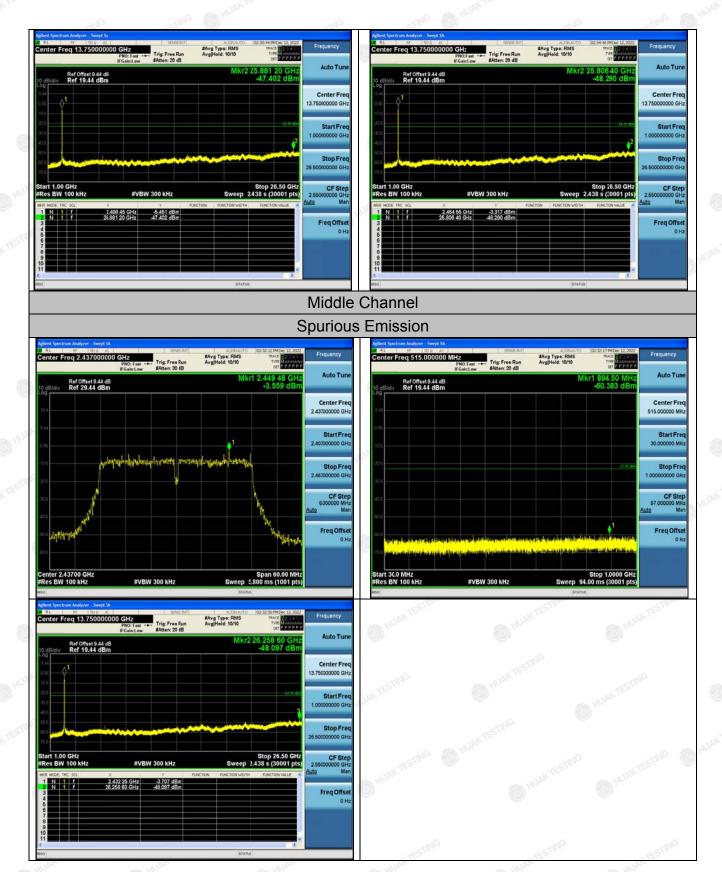




### 802.11n (HT40) Modulation







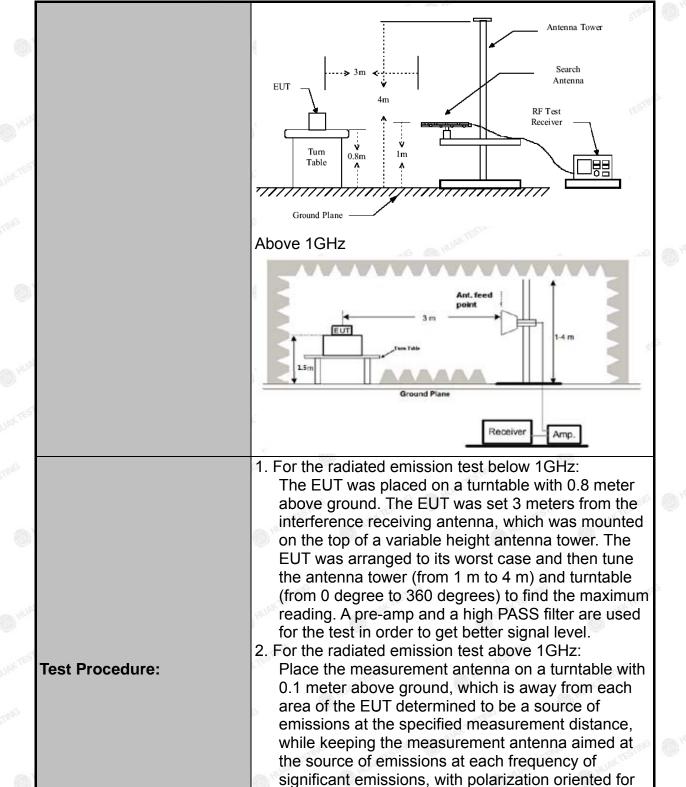


## 4.7. RADIATED SPURIOUS EMISSION MEASUREMENT

### **Test Specification**

(microvolts/meter) (meters)	Test Requirement:	FCC Part15	C Section	on 1	15.209	ESTI	NG.	TSTIN
Measurement Distance: 3 m   Horizontal & Vertical	Test Method:	ANSI C63.10	0: 2013		(	HUAN		HUAKTE
Antenna Polarization:   Horizontal & Vertical	Frequency Range:	9 kHz to 25 (	GHz			TING		
Transmitting mode with modulation	Measurement Distance:	3 m	TESTING		M HU	AK TES		TESTING
Frequency	Antenna Polarization:	Horizontal &	Vertical			_	0	HURR
SkHz-150kHz	Operation mode:	Transmitting	mode w	/ith	modulati	ion		
Receiver Setup:   30MHz   30MHz   300KHz   Quasi-peak Value   Above 1GHz   Peak   1MHz   3MHz   Peak Value   Above 1GHz   Peak   1MHz   30MHz   Peak Value   Above 1GHz   Peak   1MHz   10Hz   Average Value   Average Value   Peak   10Hz   Average Value   Average Value   Peak   10Hz   Average Value   Average Value   Peak   10Hz   2400/F(KHz)   300   30   300   30   300   30   300   30   300			. 100			- 4.7		. 5 5 6 7
Above 1GHz	Receiver Setup:		Quasi-pe	ak	9kHz	30kHz	Quas	si-peak Value
Peak		30MHz-1GHz		ak				
Frequency		Above 1GHz	1/37	TIME		11/4		11 1/2
Compact   Comp		ALU PIL	Peak		1MHz	10Hz	Ave	erage Value
D.490-1.705   24000/F(KHz)   30		Frequen	ісу					
1.705-30   30   30   30   30   30   30   30		0.009-0.490			2400/F(k	(Hz)	300	
Section   Sect		ATTACA TO THE REAL PROPERTY OF			` '			
B8-216 150 3 216-960 200 3 Above 960 500 0  Frequency Field Strength (microvolts/meter) Distance (meters) Above 1GHz 500 3 Average 5000 3 Peak  For radiated emissions below 30MHz  Test setup:  RX Antenna  Ground Plane								
Prequency   Field Strength (microvolts/meter)   Detector (meters)								
Frequency  Field Strength (microvolts/meter)  Above 1GHz  For radiated emissions below 30MHz  For radiated emissions below 30MHz  For radiated emissions below 30MHz	l imit:			G	2010.01			245.55
Frequency  Field Strength (microvolts/meter)  Above 1GHz  For radiated emissions below 30MHz  For radiated emissions below 30MHz  For radiated emissions below 30MHz	Lillit.		1.00		- 17		9	1000
Frequency   Field Strength (microvolts/meter)   Distance (meters)    Above 1GHz   500   3   Average    500   3   Peak    For radiated emissions below 30MHz    For radiated emissions below 30MHz			9			0	l.	
For radiated emissions below 30MHz  Test setup:  RX Antenna  Ground Plane		Frequency				Distar	nce	Detector
For radiated emissions below 30MHz  Test setup:  RX Antenna  Ground Plane		Alana 4011a	W HUAK TO	5	500	,	,	Average
Test setup:		Above 1GHz	Z	5	000	3		
Test setup:		For radiated	emissio	ns	below 30	MHz		STING
30MHz to 1GHz	Test setup:	0.8 m	C	n Table				ALLAN STR

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receiving the maximum signal.

maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission

and staying aimed at the emission source for





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 3dB 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 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:	- Lak	· Alay
Test results: PASS		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 3dB 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 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:	PASS



### **Test Instruments**

	Rad	iated Emission	Test Site (966	5)		
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Receiver	R&S	ESCI-7	HKE-010	Feb. 18, 2022	Feb. 17, 2023	
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	Feb. 17, 2023	
Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 18, 2022	Feb. 17, 2023	
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 18, 2022	Feb. 17, 2023	
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 18, 2022	Feb. 17, 2023	
Preamplifier	EMCI	EMC051845S E	HKE-015	Feb. 18, 2022	Feb. 17, 2023	
Preamplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	Feb. 17, 2023	
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	Feb. 17, 2023	
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 18, 2022	Feb. 17, 2023	
Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 18, 2022	Feb. 17, 2023	
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 18, 2022	Feb. 17, 2023	
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A	
Position controller	Taiwan MF	MF7802	HKE-011	Feb. 18, 2022	Feb. 17, 2023	
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A	
RF cable	Times	9kHz-1GHz	HKE-117	Feb. 18, 2022	Feb. 17, 2023	
RF cable	Times	1-40G	HKE-034	Feb. 18, 2022	Feb. 17, 2023	
Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Feb. 18, 2022	Feb. 17, 2023	

**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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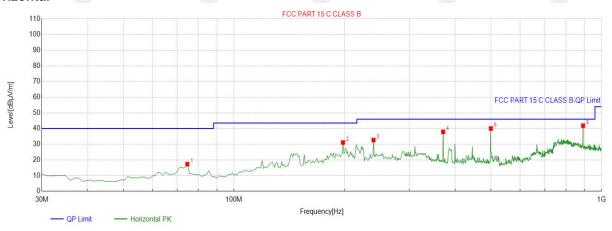


#### **Test Data**

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

#### **Below 1GHz**

#### Horizontal



QP Detector

Suspe	cted List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	74.6647	-16.61	33.89	17.28	40.00	22.72	100	88	Horizontal
2	197.9780	-15.96	47.09	31.13	43.50	12.37	100	221	Horizontal
3	239.7297	-13.31	45.96	32.65	46.00	13.35	100	358	Horizontal
4	370.8108	-11.01	48.92	37.91	46.00	8.09	100	128	Horizontal
5	499.9500	-7.07	47.10	40.03	46.00	5.97	100	1	Horizontal
6	891.2513	-0.67	42.50	41.83	46.00	4.17	100	317	Horizontal

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



#### Vertical



Suspe	cted List								
10	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevitor
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	33.8839	-16.38	37.99	21.61	40.00	18.39	100	6	Vertical
2	72.7227	-16.35	37.37	21.02	40.00	18.98	100	134	Vertical
3	149.4294	-18.78	45.58	26.80	43.50	16.70	100	152	Vertical
4	399.9399	-9.45	36.48	27.03	46.00	18.97	100	144	Vertical
5	519.3694	-7.09	36.99	29.90	46.00	16.10	100	211	Vertical
6	788.3283	-2.19	34.90	32.71	46.00	13.29	100	14	Vertical

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

## **Harmonics and Spurious Emissions**

#### Frequency Range (9kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
<b>*</b>		
NG	-mig	TING
TRIG	WAKTED THIS	- MAKTES
TAX TEE	- Tak Tes	- HAKTED

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.



### **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	60.24	-3.64	56.6	74	· -17.4	peak
4824	45.94	-3.64	42.3	54	-11.7	AVG
7236	51.41	-0.95	50.46	74	-23.54	peak
7236	42.36	-0.95	41.41	54	-12.59	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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	61.81	-3.64	58.17	74	-15.83	peak
4824	43.29	-3.64	39.65	54	-14.35	AVG
7236	50.34	-0.95	49.39	74	-24.61	peak
7236	38.49	-0.95	37.54	54	-16.46	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-

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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	59.73	-3.51	56.22	74	-17.78	peak
4874	40.99	-3.51	37.48	54	-16.52	AVG
7311	53.98	-0.82	53.16	74	-20.84	peak
7311	37.94	-0.82	37.12	54	-16.88	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Levelimit

### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	57.06	-3.51	53.55	74	-20.45	peak
4874	41.26	-3.51	37.75	54	-16.25	AVG
7311	50.95	-0.82	50.13	74	-23.87	peak
7311	38.39	-0.82	37.57	54	-16.43	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.





#### 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	57.98	-3.43	54.55	74	-19.45	peak
4924	45.31	-3.43	41.88	54	-12.12	AVG
7386	51.39	-0.75	50.64	74	-23.36	peak
7386	36.45	-0.75	35.7	54	-18.3	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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	60.56	-3.43	57.13	74	-16.87	peak
4924	40.19	-3.43	36.76	54	-17.24	AVG
7386	54.94	-0.75	54.19	74	-19.81	peak
7386	39.78	-0.75	39.03	54	-14.97	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-

#### 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.



### 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	57.03	-3.64	53.39	74	-20.61	peak
4824	40.06	-3.64	36.42	54	-17.58	AVG
7236	50.47	-0.95	49.52	74	-24.48	peak
7236	38.41	-0.95	37.46	54	-16.54	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4824	52.95	-3.64	49.31	74	-24.69	peak
4824	40.77	-3.64	37.13	54	-16.87	AVG
7236	50.07	-0.95	49.12	74	-24.88	peak
7236	38.31	-0.95	37.36	54	-16.64	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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	59.92	-3.51	56.41	74	-17.59	peak
4874	41.95	-3.51	38.44	54	-15.56	AVG
7311	51.17	-0.82	50.35	74	-23.65	peak
7311	38.74	-0.82	37.92	54	-16.08	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	58.69	-3.51	55.18	74	-18.82	peak
4874	43.22	-3.51	39.71	54	-14.29	AVG
7311	51.07	-0.82	50.25	74	-23.75	peak
7311	38.44	-0.82	37.62	54	-16.38	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-

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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)	Туре
4924	60.25	-3.43	56.82	74	-17.18	peak
4924	42.41	-3.43	38.98	54	-15.02	AVG
7386	52.84	-0.75	52.09	74	-21.91	peak
7386	38.79	-0.75	38.04	54	-15.96	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	51.57	-3.43	48.14	74	-25.86	peak
4924	43.05	-3.43	39.62	54	-14.38	AVG
7386	48.87	-0.75	48.12	74 HUA	-25.88	peak
7386	39.16	-0.75	38.41	54	-15.59	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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.



#### 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)	Type
4824	53.38	-3.64	49.74	74	-24.26	peak
4824	41.92	-3.64	38.28	54	-15.72	AVG
7236	50.88	-0.95	49.93	74	-24.07	peak
7236	43.49	-0.95	42.54	54	-11.46	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	55.74	-3.64	52.1	74	-21.9	peak
4824	41.92	-3.64	38.28	54	-15.72	AVG
7236	51.83	-0.95	50.88	74	-23.12	peak
7236	40.25	-0.95	39.3	54	-14.7	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



#### 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)	Type
4874	52.67	-3.51	49.16	74.00	-24.84	peak
4874	41.08	-3.51	37.57	54.00	-16.43	AVG
7311	51.43	-0.82	50.61	74.00	-23.39	peak
7311	40.47	-0.82	39.65	54.00	-14.35	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874	53.69	-3.51	50.18	74.00	-23.82	peak
4874	43.77	-3.51	40.26	54.00	-13.74	AVG
7311	51.29	-0.82	50.47	74.00	-23.53	peak
7311	40.22	-0.82	39.40	54.00	-14.60	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit AFICATION.



### HIGH CH11 (802.11n/H20 Mode)/2462

#### Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data aton Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
4924	55.61	-3.43	52.18	74	-21.82	peak
4924	39.16	-3.43	35.73	54	-18.27	AVG
7386	48.38	-0.75	47.63	74	-26.37	peak
7386	37.02	-0.75	36.27	54	· -17.73	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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	56.36	-3.43	52.93	74	-21.07	peak
4924	42.51	-3.43	39.08	54	-14.92	AVG
7386	51.15	-0.75	50.4	74	-23.6	peak
7386	36.57	-0.75	35.82	54	-18.18	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

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### LOW CH3 (802.11n/H40 Mode)/2422

#### Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	60.21	-3.63	56.58	74	-17.42	peak
4844	41.89	-3.63	38.26	54	-15.74	AVG
7266	56.29	-0.94	55.35	74	-18.65	peak
7266	34.41	-0.94	33.47	54	-20.53	AVG

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	53.92	-3.63	50.29	74	-23.71	peak
4844	42.35	-3.63	38.72	54	-15.28	AVG
7266	52.76	-0.94	51.82	74	-22.18	peak
7266	34.61	-0.94	33.67	54	-20.33	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

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### MID CH6 (802.11n/H40 Mode)/2437

#### Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data atau Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	60.33	-3.51	56.82	74	-17.18	peak
4874	46.54	-3.51	43.03	54	-10.97	AVG
7311	57.86	-0.82	57.04	74	-16.96	peak
7311	38.65	-0.82	37.83	54	-16.17	AVG

### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	51.93	-3.51	48.42	74	-25.58	peak
4874	40.32	-3.51	36.81	54	-17.19	AVG
7311	51.49	-0.82	50.67	74	-23.33	peak
7311	36.31	-0.82	35.49	54	-18.51	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



#### HIGH CH9 (802.11n/H40 Mode)/2452

#### Horizontal:

Frequency Reading Result	Factor	Emission Level	Limits	Margin	Data atau Tura	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	57.86	-3.43	54.43	74	-19.57	peak
4904	44.21	-3.43	40.78	54	-13.22	AVG
7356	53.04	-0.75	52.29	74	-21.71	peak
7356	40.57	-0.75	39.82	54	· -14.18	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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)	Detector Type
4904	54.22	-3.43	50.79	74	-23.21	peak
4904	42.13	-3.43	38.7	54	-15.3	AVG
7356	51.16	-0.75	50.41	74	-23.59	peak
7356	40.34	-0.75	39.59	54	-14.41	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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.



### 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 W	Margin	Data star Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	53.76	-5.81	47.95	74	-26.05	peak
2310.00	46.92	-5.81	41.11	54	-12.89	AVG
2390.00	50.56	-5.84	44.72	74	-29.28	peak
2390.00	40.82	-5.84	34.98	54	-19.02	AVG

### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Deffe the Tune
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	53.82	-5.81	48.01	74	-25.99	peak
2310.00	41.49	-5.81	35.68	54	-18.32	AVG
2390.00	52.51	-5.84	46.67	74	-27.33	peak
2390.00	38.22	-5.84	32.38	54	-21.62	AVG
2			-	0		

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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	54.94	-5.81	49.13	74	-24.87	peak
2483.50	40.17	-5.81	34.36	54	-19.64	AVG
2500.00	52.09	-6.06	46.03	74	-27.97	peak
2500.00	37.82	-6.06	31.76	54	-22.24	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	HUAKTES
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.63	-5.81	48.82	74 HUA	-25.18	peak
2483.50	45.25	-5.81	39.44	54	-14.56	AVG
2500.00	52.46	-6.06	46.4	74	-27.6	peak
2500.00	40.92	-6.06	34.86	54	-19.14	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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

(MHz)     (dBμV)     (dB)     (dBμV/m)     (dBμV/m)     (dB)       2310.00     55.86     -5.81     50.05     74     -23.95     peak       2310.00     42.56     -5.81     36.75     54     -17.25     AVG       2390.00     51.94     -5.84     46.1     74     -27.9     peak	Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
2310.00 42.56 -5.81 36.75 54 -17.25 AVG 2390.00 51.94 -5.84 46.1 74 -27.9 peak	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2390.00 51.94 -5.84 46.1 74 -27.9 peak	2310.00	55.86	-5.81	50.05	74	-23.95	peak
TEST DIAPTEST	2310.00	42.56	-5.81	36.75	54	-17.25	AVG
2200.00 20.19 5.4 22.24 54 20.66 0.40	2390.00	51.94	-5.84	46.1	74	-27.9	peak
2590.00	2390.00	39.18	-5.84	33.34	54	-20.66	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

#### Vertical:

Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
51.53	-5.81	45.72	74	-28.28	peak
41.67	-5.81	35.86	54	-18.14	AVG
50.74	-5.84	44.9	74	-29.1	peak
40.67	-5.84	34.83	54	-19.17	AVG
	(dBµV) 51.53 41.67 50.74	(dBµV) (dB) 51.53 -5.81 41.67 -5.81 50.74 -5.84	(dBμV)     (dB)     (dBμV/m)       51.53     -5.81     45.72       41.67     -5.81     35.86       50.74     -5.84     44.9	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)       51.53     -5.81     45.72     74       41.67     -5.81     35.86     54       50.74     -5.84     44.9     74	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)     (dBμV/m)       51.53     -5.81     45.72     74     -28.28       41.67     -5.81     35.86     54     -18.14       50.74     -5.84     44.9     74     -29.1

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.



Operation Mode: TX CH High (2462MHz)

#### Horizontal

Reading Result	Factor	Emission Level	w Limits	Margin	Data ata Timo
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
52.85	-5.65	47.2	74	-26.8	peak
41.93	-5.65	36.28	54	-17.72	AVG
50.05	-5.65	44.4	74	-29.6	peak
41.14	-5.65	35.49	54	-18.51	AVG
	(dBµV) 52.85 41.93 50.05	(dBµV) (dB) 52.85 -5.65 41.93 -5.65 50.05 -5.65	(dBμV)     (dB)     (dBμV/m)       52.85     -5.65     47.2       41.93     -5.65     36.28       50.05     -5.65     44.4	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)       52.85     -5.65     47.2     74       41.93     -5.65     36.28     54       50.05     -5.65     44.4     74	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)     (dBμV/m)       52.85     -5.65     47.2     74     -26.8       41.93     -5.65     36.28     54     -17.72       50.05     -5.65     44.4     74     -29.6

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; 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)	Detector Type
2483.50	52.93	-5.65	47.28	74	-26.72	peak
2483.50	42.22	-5.65	36.57	54	-17.43	AVG
2500.00	49.19	-5.65	43.54	74	-30.46	peak
2500.00	39.41	-5.65	33.76	54	-20.24	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; 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	Data at a Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	53.19	-5.81	47.38	74	-26.62	peak
2310.00	42.88	-5.81	37.07	54	-16.93	AVG
2390.00	50.58	-5.84	44.74	74	-29.26	peak
2390.00	39.69	-5.84	33.85	54	-20.15	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

#### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	53.88	-5.81	48.07	74	-25.93	peak
2310.00	41.23	-5.81	35.42	54	-18.58	AVG
2390.00	52.28	-5.84	46.44	74	-27.56	peak
2390.00	37.78	-5.84	31.94	54	-22.06	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; 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	53.27	-5.65	47.62	74	-26.38	peak
2483.50	42.68	-5.65	37.03	54	-16.97	AVG
2500.00	50.71	-5.65	45.06	74	-28.94	peak
2500.00	38.84	-5.65	33.19	54	-20.81	AVG
N. S.	11/03	180	1/2/		180	7 152

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

### Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	HUAKTES
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	53.97	-5.65	48.32	74	-25.68	peak
2483.50	40.56	-5.65	34.91	54	-19.09	AVG
2500.00	51.67	-5.65	46.02	74	-27.98	peak
2500.00	38.38	-5.65	32.73	54	-21.27	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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.



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

#### Horizontal

	Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Time
7 774	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	2310.00	54.52	-5.81	48.71	74	-25.29	peak
	2310.00	ESTING /	-5.81	TESTING	54	1	AVG
	2390.00	53.19	-5.84	47.35	74	-26.65	peak
	2390.00	1	-5.84	1	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

#### Vertical:

	Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Datastar Tyra
) N	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
. 65	2310.00	55.15	-5.81	49.34	74	-24.66	peak
Ī	2310.00	ESTING /	-5.81	I TESTING	54	1	AVG
ľ	2390.00	52.49	-5.84	46.65	74	-27.35	peak
ľ	2390.00	MC HUR	-5.84	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level-Limit.

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Operation Mode: TX CH High (2452MHz)

#### Horizontal

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Date of a Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.34	-5.65	50.69	74 HUM	-23.31	peak
2483.50	1	-5.65	O HUAN	54	1	AVG
2500.00	52.47	-5.65	46.82	74	-27.18	peak
2500.00	LAK TESTING	-5.65	ING LAKTESTIN	54	WISTING	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; 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)	Detector Type
2483.50	54.69	-5.65	49.04	74	-24.96	peak
2483.50	1	-5.65	1	54	1	AVG
2500.00	53.52	-5.65	47.87	74	-26.13	peak
2500.00	PJAK 1	-5.65	/UNK T	54	HUAK TES	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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.

FICATION



### 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.

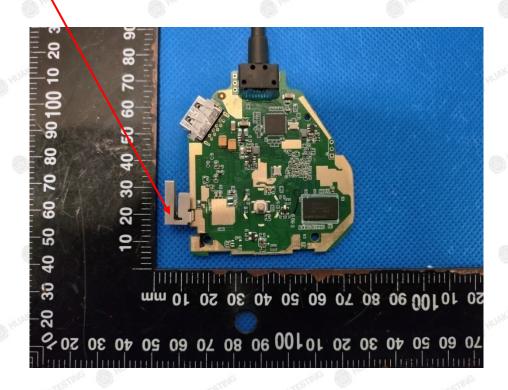
#### Refer to statement below for compliance.

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 Internal Antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 3.56dBi.

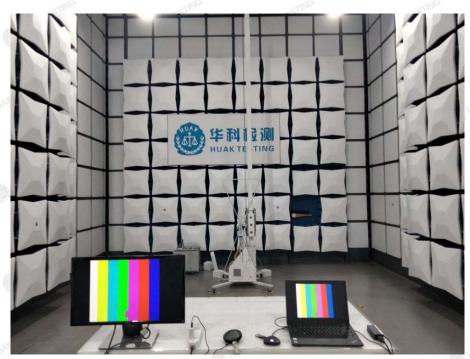
### **WIFI ANTENNA**





## 5. PHOTOGRAPH OF TEST

#### **Radiated Emissions**





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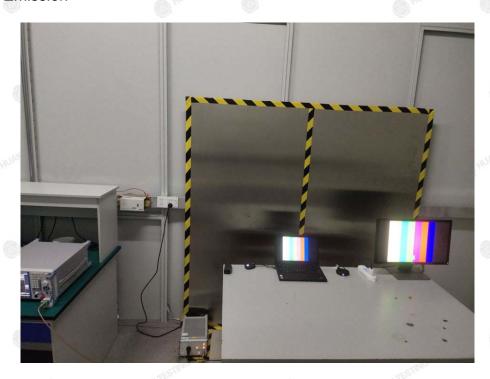
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

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-----