

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). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 					
Test Result:	PASS					

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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).

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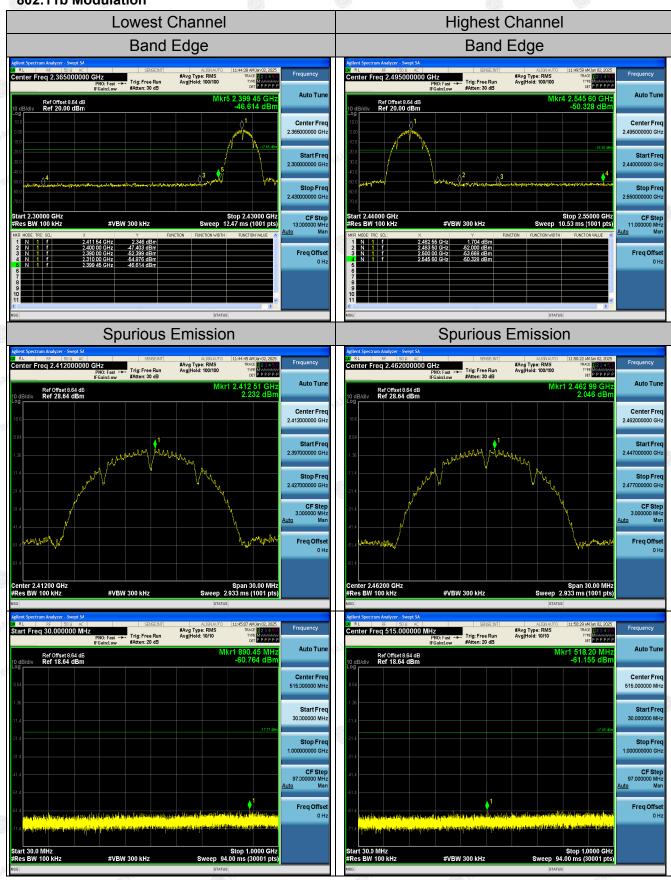
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Test Data





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Report No.: HK2412308171-E

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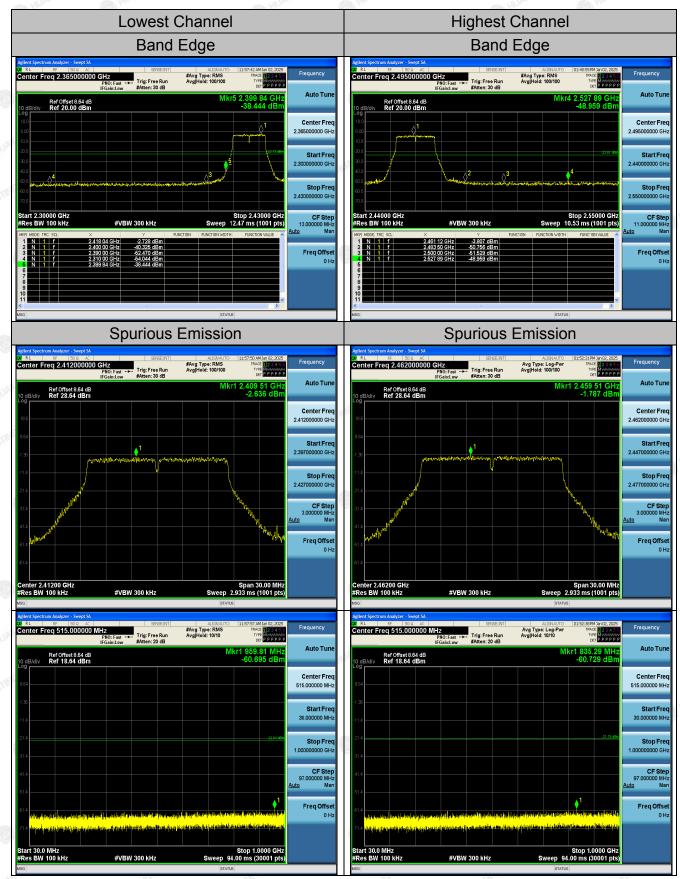
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802.11g Modulation



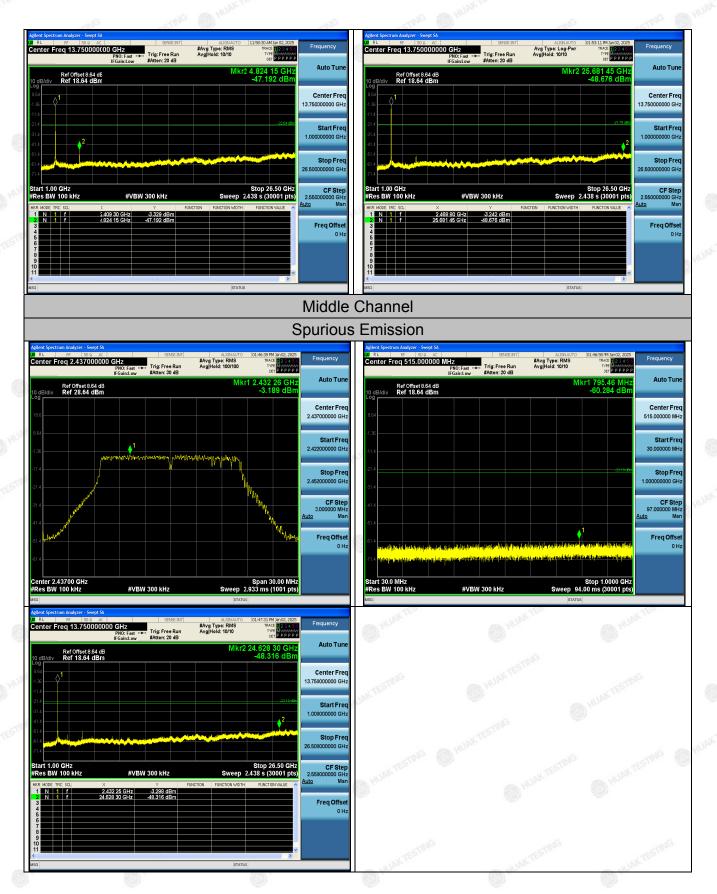
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802.11n (HT20) Modulation



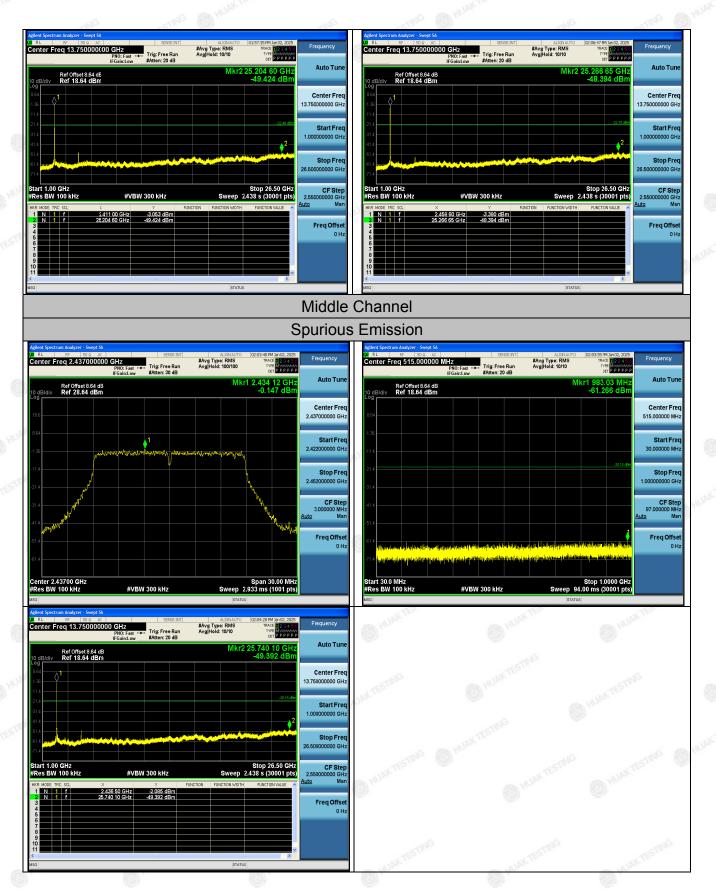
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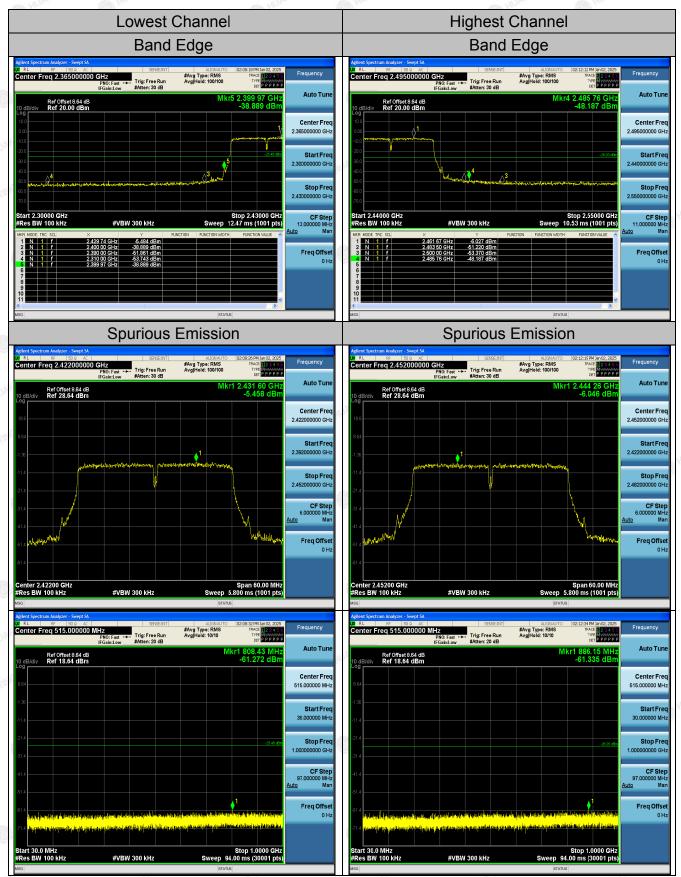


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802.11n (HT40) Modulation



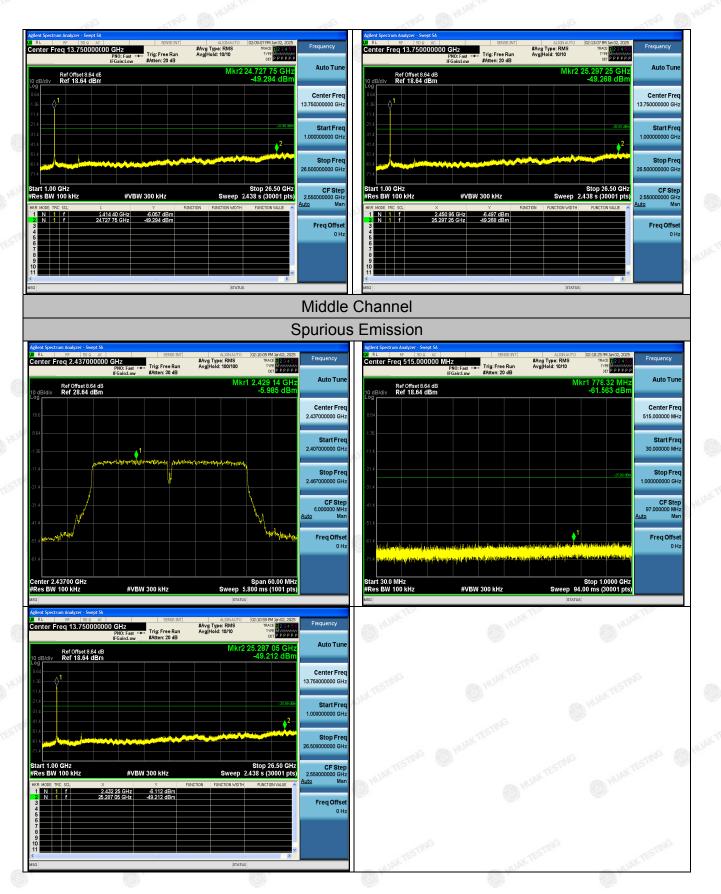
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4.7. Radiated Spurious Emission Measurement

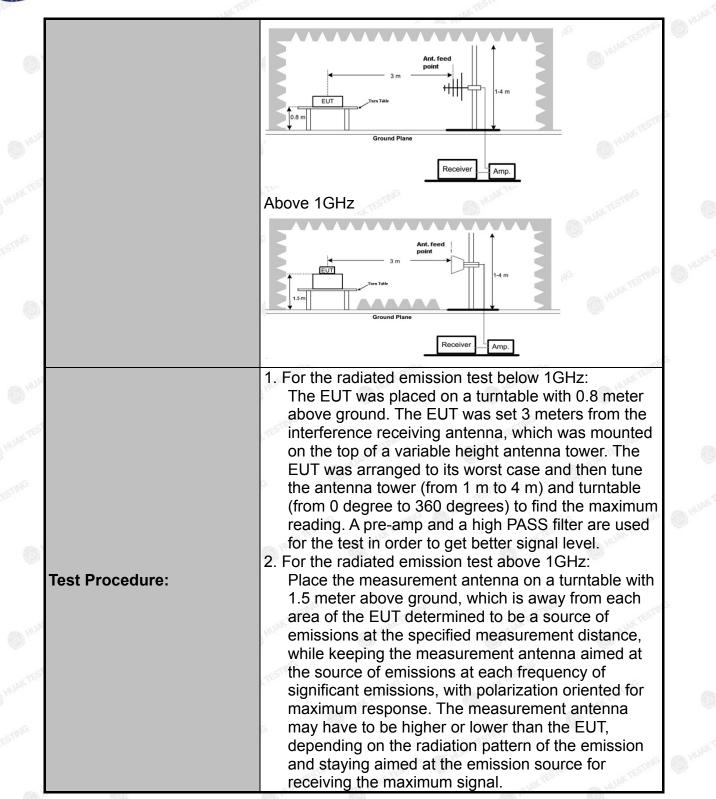
Test Specification

FCC Part15	C Section	n 15.209	TEST	G	TES	
ANSI C63.10	ANSI C63.10: 2013					
9 kHz to 25 (GHz		STING			
3 m	TESTING	(A) HU	AKTE		TESTING	
Horizontal &	Vertical		.0	0	HOME	
Transmitting	mode wi	th modulat	ion			
Frequency	Detector	RBW	VBW	SUME	Remark	
9kHz- 150kHz	Quasi-pea	k 200Hz	1kHz	Quas	si-peak Valu	
150kHz- 30MHz	Quasi-pea	ık 9kHz	30kHz	Quas	i-peak Valu	
	Quasi-pea	k 120KHz	300KHz	Quas	si-peak Valu	
TING				-	eak Value	
Above 1GHz					erage Value	
45 ¹¹		(microvolts	/meter)	Measurement Distance (meters) 300		
			30			
	,	- (i i _)	30			
7	100			3		
				3		
10.0			STING	3 15		
			HUAK .		3	
Frequency		-	Distan	се	Detector	
Above 1CH	NUAK 1	500	3		Average	
		5000	3		Peak	
For radiated	3 m	RX 			una resting	
30MHz to 10	SHz 🚽					
	ANSI C63.10 9 kHz to 25 0 3 m Horizontal & Transmitting Frequency 9kHz-150kHz 150kHz- 30MHz 30MHz-1GHz Above 1GHz Frequency 0.009-0.4 0.490-1.5 1.705-3 30-88 88-210 216-96 Above 9 Frequency Above 1GHz	ANSI C63.10: 2013 9 kHz to 25 GHz 3 m Horizontal & Vertical Transmitting mode wi	9 kHz to 25 GHz 3 m Horizontal & Vertical Transmitting mode with modulat Frequency Detector RBW 9kHz-150kHz Quasi-peak 200Hz 150kHz- Quasi-peak 9kHz 30MHz Quasi-peak 120KHz 30MHz Quasi-peak 120KHz 30MHz Quasi-peak 120KHz Above 1GHz Peak 1MHz Frequency Field Strength 0.009-0.490 2400/F(theta) 0.009-0.490 2400/F(theta) 0.4bove 1GHz 1500 216-960 200 Above 1GHz 500 Above 1GHz 500 Above 1GHz 500 Above 1GHz 500 For radiated emissions below 30 500 For radiated emissions below 30 100 Image: Colstance 3m Image: Colstance 3m Image: Colstance 3m Image: Colstance 3m Image: Colstance 500 Image: Colstance	ANSI C63.10: 2013 9 kHz to 25 GHz 3 m Horizontal & Vertical Transmitting mode with modulation	ANSI C63.10: 2013 9 kHz to 25 GHz 3 m Horizontal & Vertical Transmitting mode with modulation	

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	- 10 ²
	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 ^{wun}	3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
JAN TEST	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;
D ¹¹¹⁰	 (3) Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for peak measurement.
JAN TES	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
TRIG	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

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Test Instruments

	Rad	iated Emission	Test Site (966	5)	
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	/ restrus	what the string the string

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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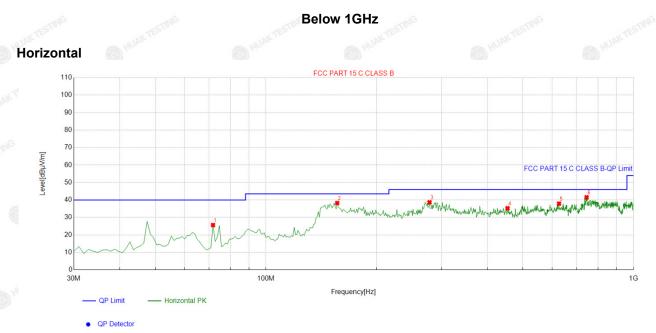
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Test Data

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



Sus	pected 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	43.06	25.68	40.00	14.32	100	185	Horizontal
2	156.22622	-17.78	56.04	38.26	43.50	5.24	100	1	Horizontal
3	278.56856	-12.65	51.30	38.65	46.00	7.35	100	13	Horizontal
4	454.31431	-8.83	44.10	35.27	46.00	10.73	100	297	Horizontal
5	627.14714	-5.25	43.18	37.93	46.00	8.07	100	55	Horizontal
6	745.60560	-3.47	45.01	41.54	46.00	4.46	100	67	Horizontal

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

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Suspected List

5		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
12-	1	47.477477	-13.86	39.83	25.97	40.00	14.03	100	192	Vertical
	2	71.751752	-17.38	39.78	22.40	40.00	17.60	100	217	Vertical
G	3	145.54554	-18.27	52.76	34.49	43.50	9.01	100	359	Vertical
	4	197.00700	-14.97	50.95	35.98	43.50	7.52	100	50	Vertical
	5	286.33633	-12.36	49.61	37.25	46.00	8.75	100	25	Vertical
	6	449.45945	-8.78	40.41	31.63	46.00	14.37	100	117	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – 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)			
2	200	AKTES	WIAKTES			
	WAXTES	WINK TES				
	©``	<u> </u>	0 **			
			-KTESTIN			

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:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
51.16	-3.64	47.52	74	<u> </u>	peak
38.55	-3.64	34.91	54	-19.09	AVG
50.29	-0.95	49.34	74	-24.66	peak
36.91	-0.95	35.96	54	-18.04	AVG
	(dBµV) 51.16 38.55 50.29	(dBµV) (dB) 51.16 -3.64 38.55 -3.64 50.29 -0.95	(dBµV) (dB) (dBµV/m) 51.16 -3.64 47.52 38.55 -3.64 34.91 50.29 -0.95 49.34	(dBµV) (dB) (dBµV/m) (dBµV/m) 51.16 -3.64 47.52 74 38.55 -3.64 34.91 54 50.29 -0.95 49.34 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 51.16 -3.64 47.52 74 -26.48 38.55 -3.64 34.91 54 -19.09 50.29 -0.95 49.34 74 -24.66

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	51.26	-3.64	47.62	74	-26.38	peak
4824	40.62	-3.64	36.98	54	-17.02	AVG
7236	50.04	-0.95	49.09	74	-24.91	peak
7236	39.23	-0.95	38.28	54	-15.72	AVG

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

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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	50.48	-3.51	46.97	74	-27.03	peak
4874	42.62	-3.51	39.11	54	-14.89	AVG
7311	48.75	-0.82	47.93	74	-26.07	peak
7311	37.78	-0.82	36.96	54	-17.04	AVG
Remark: Factor	r = Cable loss + An	tenna factor +	Attenuator – Prean	nplifier; Level =	Reading + Fac	tor; Margin =

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	51.47	-3.51	47.96	74	-26.04	peak
4874	41.08	-3.51	37.57	54	-16.43	AVG
7311	49.15	-0.82	48.33	74	-25.67	peak
7311	38.18	-0.82	37.36	54		AVG

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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	52.21	-3.43	48.78	74	-25.22	peak
so 4924	38.99	-3.43	35.56	54	-18.44	AVG
7386	49.34	-0.75	48.59	74	-25.41	peak
7386	40.25	-0.75	39.5	54	-14.5	AVG

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

Vertical:

		- 100 State 2			80215F1	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4924	52.58	-3.43	49.15	74	-24.85	peak
4924	39.81	-3.43	36.38	54	-17.62	AVG
7386	50.04	-0.75	49.29	74	-24.71	peak
7386	37.18	-0.75	36.43	54	-17.57	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	50.88	-3.64	47.24	74	-26.76	peak
4824	42.79	-3.64	39.15	54	-14.85	AVG
7236	48.68	-0.95	47.73	74	-26.27	peak
7236	37.66	-0.95	36.71	54	-17.29	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	51.37	-3.64	47.73	74	-26.27	peak
4824	41.08	-3.64	37.44	54	-16.56	AVG
7236	48.04	-0.95	47.09	74	-26.91	peak
7236	39.02	-0.95	38.07	54	-15.93	AVG

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NG

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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	52.37	-3.51	48.86	74	-25.14	peak
4874	38.74	-3.51	35.23	54	-18.77	AVG
7311	47.17	-0.82	46.35	74	-27.65	peak
7311	37.73	-0.82	36.91	54	-17.09	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	52.63	-3.51	49.12	74	-24.88	peak
4874	41.93	-3.51	38.42	54	-15.58	AVG
7311	48.37	-0.82	47.55	74	-26.45	peak
7311	39.24	-0.82	38.42	54	-15.58	AVG

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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	50.35	-3.43	46.92	74	-27.08	peak
4924	41.17	-3.43	37.74	54	-16.26	AVG
7386	49.14	-0.75	48.39	74	-25.61	peak
7386	40.66	-0.75	39.91	54	-14.09	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
4924	49.82	-3.43	46.39	74	-27.61	peak
4924	40.95	-3.43	37.52	54	-16.48	AVG
7386	48.24	-0.75	47.49	74	-26.51	peak
7386	40.09	-0.75	39.34	54	-14.66	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.

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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	52.44	-3.64	48.8	74	-25.2	peak
4824	41.69	-3.64	38.05	54	-15.95	AVG
7236	49.12	-0.95	48.17	74	-25.83	peak
7236	37.18	-0.95	36.23	54	-17.77	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	49.48	-3.64	45.84	74	-28.16	peak
4824	39.42	-3.64	35.78	54	18.22- ^{مرو}	AVG
7236	47.15	-0.95	46.2	74	-27.8	peak
7236	37.04	-0.95	36.09	54	-17.91	AVG

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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	52.00	-3.51	48.49	74.00	-25.51	peak
4874	39.98	-3.51	36.47	54.00	-17.53	AVG
7311	47.70	-0.82	46.88	74.00	-27.12	peak
7311	38.94	-0.82	38.12	54.00	-15.88	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	49.89	-3.51	46.38	74.00	-27.62	peak
4874	42.34	-3.51	38.83	54.00	-15.17	AVG
7311	49.02	-0.82	48.20	74.00	-25.80	peak
7311	37.39	-0.82	36.57	54.00	-17.43	AVG

Level-Limit.

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HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Turc
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4924	50.62	-3.43	47.19	74	-26.81	peak
4924	39.32	-3.43	35.89	54	-18.11	AVG
7386	50.83	-0.75	50.08	74	-23.92	peak
7386	39.56	-0.75	38.81	54	-15.19	AVG

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

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data star Tur
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	52.06	-3.43	48.63	74	-25.37	peak
4924	40.18	-3.43	36.75	54	-17.25	AVG
7386	49.03	-0.75	48.28	74	-25.72	peak
7386	36.74	-0.75	35.99	54	-18.01	AVG
Remark: Factor Level-Limit.	r = Cable loss + Ant	enna factor +	Attenuator – Pream	plifier; Level = I	Reading + Fac	ctor; Margin =

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LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data atas Tursa
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4844	51.81	-3.63	48.18	74	-25.82	peak
4844	41.72	-3.63	38.09	54	-15.91	AVG
7266	49.44	-0.94	48.5	74	-25.5	peak
7266	40.78	-0.94	39.84	54	-14.16	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
4844	52.91	-3.63	49.28	74	-24.72	peak
4844	39.23	-3.63	35.6	54	-18.4	AVG
7266	49.27	-0.94	48.33	74	-25.67	peak
7266	39.77	-0.94	38.83	54	-15.17	AVG

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MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Trace
N'A	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
	4874	51.13	-3.51	47.62	74	-26.38	peak
2	4874	43.67	-3.51	40.16	54	-13.84	AVG
	7311	47.96	-0.82	47.14	74	-26.86	peak
	7311	37.79	-0.82	36.97	54	-17.03	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	🔊 Limits	Margin	D. I. I. TSIN
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	49.25	-3.51	45.74	74	-28.26	peak
4874	39.56	-3.51	36.05	54	-17.95	AVG
7311	46.69	-0.82	45.87	74	-28.13	peak
7311	37.83	-0.82	37.01	54	-16.99	AVG

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HIGH CH9 (802.11n/H40 Mode)/2452

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data atas Tras
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Detector Type
4904	51.52	-3.43	48.09	74	-25.91	peak
4904	37.26	-3.43	33.83	54	-20.17	AVG
7356	47.42	-0.75	46.67	74	-27.33	peak
7356	35.22	-0.75	34.47	54	-19.53	AVG

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

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detection
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Detector Type
4904	49.19	-3.43	45.76	74	-28.24	peak
4904	42.19	-3.43	38.76	54	-15.24	AVG
7356	49.08	-0.75	48.33	74	-25.67	peak
7356	40.24	-0.75	39.49	54	-14.51	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>

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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	48.87	-5.81	43.06	74	-30.94	peak
2310.00	39.55	-5.81	33.74	54	-20.26	AVG
2390.00	48.49	-5.84	42.65	74	-31.35	peak
2390.00	37.44	-5.84	31.6	54	-22.4	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	NJAK TESTING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310.00	51.13	-5.81	45.32	74	-28.68	peak
2310.00	41.25	-5.81	35.44	54	-18.56	AVG
2390.00	50.29	-5.84	44.45	74	-29.55	peak
2390.00	36.35	-5.84	30.51	54	-23.49	AVG

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ACATION

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	52.43	-5.81	46.62	74	-27.38	peak
2483.50	40.46	-5.81	34.65	54	-19.35	AVG
2500.00	50.57	-6.06	44.51	74	-29.49	peak
2500.00	39.98	-6.06	33.92	54	-20.08	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	53.22	-5.81	47.41	74	-26.59	peak
2483.50	41.59	-5.81	35.78	54	-18.22	AVG
2500.00	49.98	-6.06	43.92	74	-30.08	peak
2500.00	39.17	-6.06	33.11	54	-20.89	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

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	48.39	-5.81	42.58	74 www	-31.42	peak
2310.00	41.87	-5.81	36.06	54	-17.94	AVG
2390.00	45.45	-5.84	39.61	74	-34.39	peak
2390.00	38.61	-5.84	32.77	54	-21.23	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits 🔘	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	49.11	-5.81	43.3	74	-30.7	peak
2310.00	44.05	-5.81	38.24	54	-15.76	AVG
2390.00	52.24	-5.84	46.4	74	-27.6	peak
2390.00	37.31	-5.84	31.47	54	-22.53	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)	
2483.50	51.82	-5.65	46.17	74	-27.83	peak
2483.50	40.36	-5.65	34.71	54	-19.29	AVG
2500.00	47.88	-5.65	42.23	74	-31.77	peak
2500.00	37.72	-5.65	32.07	54	-21.93	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	50.63	-5.65	44.98	74 HUA	-29.02	peak
2483.50	38.56	-5.65	32.91	54	-21.09	AVG
2500.00	50.19	-5.65	44.54	74	-29.46	peak
2500.00	39.45	-5.65	33.8	54	-20.2	AVG

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

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IΕ

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	41.91	-5.81	36.1	54	-17.9	AVG
2390.00	46.48	-5.84	40.64	74	-33.36	peak
2390.00	40.44	-5.84	34.6	54	-19.4	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	51.03	-5.81	45.22	74	-28.78	peak
2310.00	41.63	-5.81	35.82	54	-18.18	AVG
2390.00	47.88	-5.84	42.04	74	-31.96	peak
2390.00	40.53	-5.84	34.69	54	-19.31	AVG

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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	52.86	-5.65	47.21	74	-26.79	peak
2483.50	39.95	-5.65	34.3	54	-19.7	AVG
2500.00	47.93	-5.65	42.28	74	-31.72	peak
2500.00	37.86	-5.65	32.21	54	-21.79	AVG

Vertical:

	- JUM	- White	m ullh		JUM	- UVM
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	TESTING
2483.50	51.25	-5.65	45.6	74	-28.4	peak
2483.50	38.03	-5.65	32.38	54	-21.62	AVG
2500.00	45.18	-5.65	39.53	74	-34.47	peak
2500.00	38.73	-5.65	33.08	54	-20.92	AVG
emark: Factor evel-Limit.	r = Cable loss + Ant	enna factor +	Attenuator – Pream	nplifier; Level = F	Reading + Fac	ctor; Margin =

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	52.74	-5.81	46.93	74	-27.07	peak
2310.00	ESTING /	-5.81	- WAV EST	54	/	AVG
2390.00	52.71	-5.84	46.87	74	-27.13	peak
2390.00	AUA	-5.84	/	54	1	AVG

Vertical:

Level-Limit.

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2310.00	53.18	-5.81	47.37	74	-26.63	peak
2310.00	/	-5.81	I	54	1 🔍	AVG
2390.00	56.24	-5.84	50.4	74	-23.6	peak
2390.00	JAK TEST	-5.84	- LUAK TED	54	JAK TSTA	AVG

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CATIO

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	52.19	-5.65	46.54	74	-27.46	peak
2483.50	1	-5.65	· · · · · · · · · · · · · · · · · · ·	54	/ 🤍	AVG
2500.00	49.85	-5.65	44.2	74	-29.8	peak
2500.00	HUAK IL	-5.65	- Augurte	54	A HUAK TES	AVG

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	53.36	-5.65	47.71	74	-26.29	peak
2483.50	STAN OHUA	-5.65	NG /	54	1	AVG
2500.00	57.14	-5.65	51.49	74	-22.51	peak
2500.00	/	-5.65	/	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.

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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.

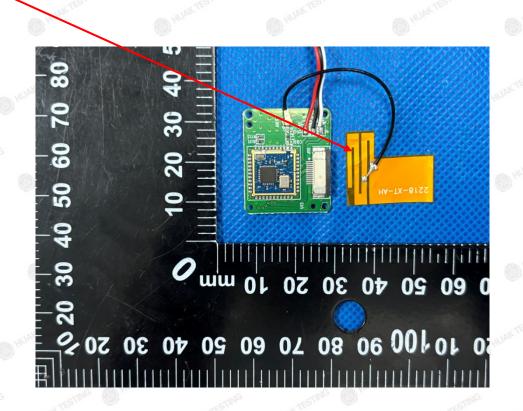
Refer to statement below for compliance.

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 1.42dBi.

Antenna



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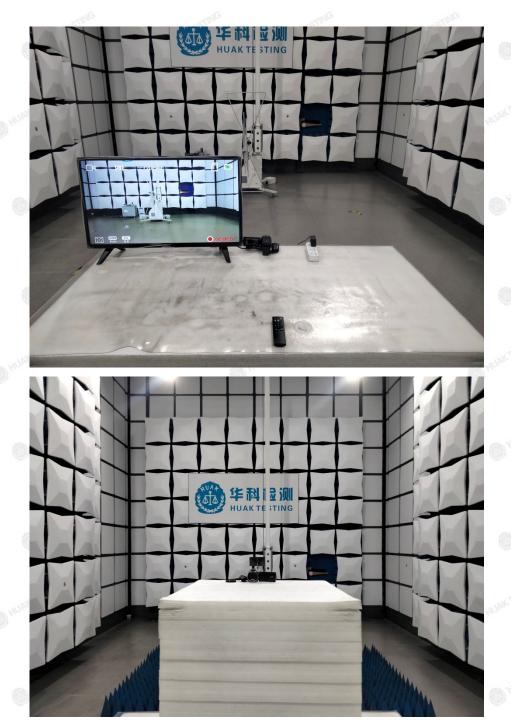
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TING

HK Beer

5. Photograph of Test

Radiated Emissions



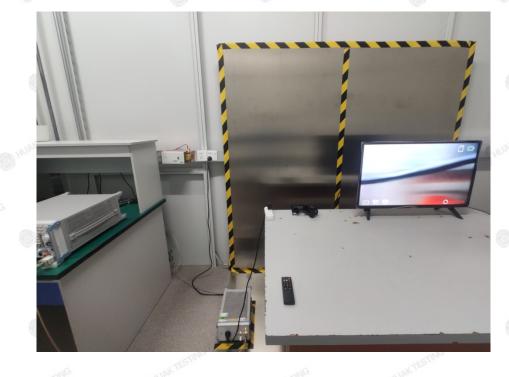
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Conducted Emission



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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--

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