

5. CONDUCTED SPURIOUS EMISSIONS

5.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Analyzer	Rohde & Schwarz	FSV40	101608	Nov.09,22	1 Year
2.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.02,23	1 Year

5.2.Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. 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 30dB instead of 20dB.

5.3.Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions with peak detector.

5.4.Test result

PASS (The testing data was attached in the next pages.)

EUT: Room Booking Panel		
M/N: IAD-18010H		
Test date: 2023-09-25	Pressure: 102.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Jerry	Test site: RF site	Temperature:22.4±0.1℃







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ter Freq 0.03 NFE PNO: Wide Trig: Free Rur IFGain:Low Atten: 20 dB	AvgType: Log-Pwr TR Avg[Hold:>100/100 1	DANSED 25,2023 Units TYPE MUNININ DET PNNININ	Marker 1 3.63700000000 GHz NFE PNO: Fast (IFGain:Low	Trig: Free Run Avg Atten: 20 dB	Type: Log-Pwr Hold:>100/100 Type PNNNNNN DET PNNNNN	Peak Search
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6. BAND EDGE COMPLIANCE TEST

6.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Analyzer	Rohde & Schwarz	FSV40	101608	Nov.09,22	1 Year
2.	Amplifier	Agilent	8449B	3008A00863	Nov.09,22	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Aug.23,23	1 Year
4.	RF Cable	HUBER+SUHN ER	SUCOFLEX-106	505238/6	Apr.02,23	1 Year

6.2.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3.Test Procedure

- 1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
- (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO(b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4.Test Results

Pass (The testing data was attached in the next pages.)





















limit are not reported.































limit are not reported.





















limit are not reported.





limit are not reported.

















7. 6dB & 99% Bandwidth Test

7.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	RF Cable	HUBER+SUHNER	SUCOFLE X-106	505238/6	Apr.06,22	1 Year

7.2.Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3.Test Procedure

Use the test method descried in ANSI C63.10 Section 11.8:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW \ge 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \ge 6 dB.

Use the test method descried in ANSI C63.10 Section 6.9.2:

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



7.4.Test Results

EUT: Room Booking Panel					
M/N: IAD-18010H					
Test date: 2023-01-11	Pressure: 102.5±1.0 kpa	Humidity: 53.6±3.0%			
Tested by: Carl	Test site: RF site	Temperature:22.4±0.6 °C			

Test Mode	СН	6dB bandwidth (MHz)	Limit (kHz)
	CH1	7.137	≥ 500
11b	CH6	7.569	≥ 500
	CH11	7.123	≥ 500
	CH1	15.24	≥ 500
11g	CH6	15.46	≥ 500
	CH11	15.22	≥ 500
	CH1	15.24	≥ 500
11n HT20	CH6	15.24	≥ 500
	CH11	15.22	≥ 500
Conclusion : PA	ASS		







EUT: Room Booking Panel		
M/N: IAD-18010H		
Test date: 2023-01-11	Pressure: 102.5±1.0 kpa	Humidity: 53.6±3.0%
Tested by: Carl	Test site: RF site	Temperature:22.4±0.6 °C

Test Mode	СН	99%Bandwidth (MHz)	Limit (MHz)
	CH1	10.232	
11b	CH6	10.266	N/A
	CH11	10.360	
	CH1	16.455	
11g	CH6	16.455	N/A
	CH11	16.348	
11	CH1	17.623	
	CH6	17.629	N/A
11120	CH11	17.503	
Conclusion:Pass			







8. OUTPUT POWER TEST

8.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Analyzer	Rohde & Schwarz	FSV40	101608	Nov.09,22	1 Year
2.	Power meter	HP	436A	3103U06658	Apr.02,23	1 Year
3.	Power Sensor	Agilent	8482B	MY41090514	Apr.02,23	1 Year
4.	Attenuator	Agilent	8491B	MY39269201	Oct.09,22	1 Year
5.	RF Cable	HUBER+SUH NER	SUCOFLEX-106	505238/6	Apr.02,23	1 Year

8.2.Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm), As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level.

8.3.Test Procedure

1, Connected the EUT's antenna port to measure device by 20dB attenuator.

- 2, Use the test method descried in ANSI C63.10-2013 clause 11.9.2.2.2 Method AVGSA-1.
 - 1) Set span to at least 1.5 times the OBW.
 - 2) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
 - 3) Set VBW \geq [3 × RBW].
 - 4) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
 - 5) Sweep time = auto.
 - 6) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
 - 7) If transmit duty cycle < 98%, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle \geq 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
 - 8) Trace average at least 100 traces in power averaging (rms) mode.
 - 9) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.



8.4.Test Results

EUT: Room Booking Panel		
M/N: IAD-18010H		
Test date: 2023-09-19	Pressure: 102.6±1.0 kpa	Humidity: 52.2±3.0%
Tested by: Jerry	Test site: RF site	Temperature:23.7±0.6 °C

Test Mode	СН	Power Setting	Output Power (dBm)	Limit (dBm)
	CH1	Default	10.11	
11b	CH6	Default	10.24	30
	CH11	Default	11.03	
	CH1	Default	10.65	
11g	CH6	Default	11.04	30
	CH11	Default	11.64	
11	CH1	Default	11.27	
HT20	CH6	Default	11.72	30
	CH11	Default	12.44	
Conclusion: PASS				







9. POWER SPECTRAL DENSITY TEST

9.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	RF Cable	Mini-Circults	CBL-1M-SMSM+	No.7	Oct.10,22	1 Year

9.2.Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3.Test Procedure

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5 DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.
- d) Set the VBW \geq [3 × RBW].
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.



9.4.Test Results

EUT: Room Booking I	Panel				
M/N: IAD-18010H					
Test date: 2023-01-12		Pressure: 102.6±1.0 kpa		Humidity: 52.2±3.0%	
Tested by: Carl		Test site: RF site		Temperature: 23.7±0.6℃	
Test Mode		СН	Power Dens (dBm/3kH	sity z)	Limit (dBm/3kHz)
11b		CH1 CH6 CH11	-9.066 -10.205 -10.126		8
11g		CH1 CH6 CH11	-10.983 -10.981 -10.492		8
11n HT20		CH1 CH6 CH11	-10.635 -9.482 -9.079		8
Conclusion: PASS					







10. ANTENNA REQUIREMENT

10.1. 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 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. Antenna Connected Construction

The antennas used for this product are FPC antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 2.3dBi.



11. DEVIATION TO TEST SPECIFICATIONS

[NONE]

THE END

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