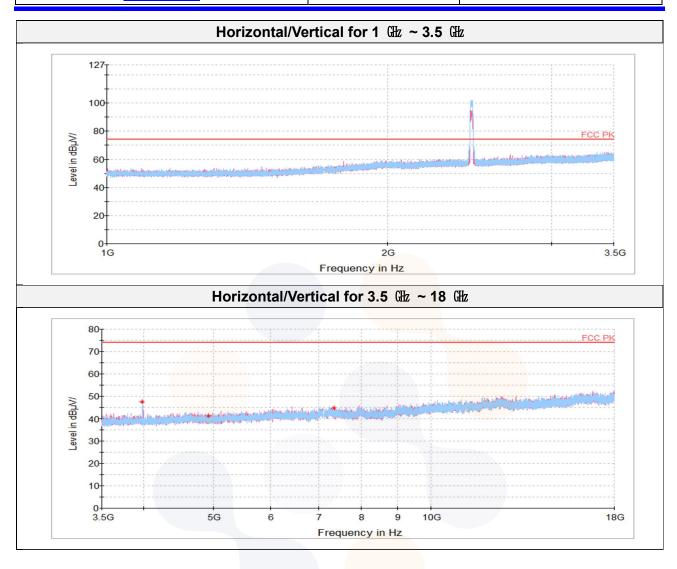
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Report No.: KR25-SRF0080-A Page (46) of (54)





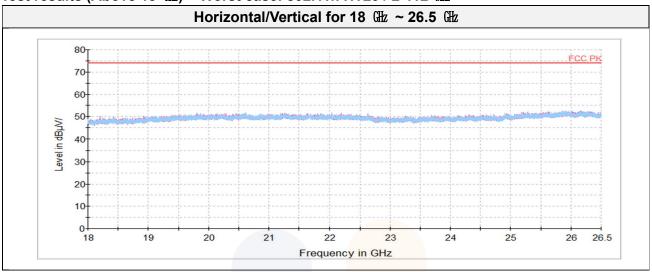
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Report No.: KR25-SRF0080-A Page (47) of (54)



Test results (Above 18 (址) - Worst case: 802.11n HT20 / 2 412 址



Note: The Worst case was based on the lowest margin condition considering Harmonic and Spurious Emission

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Report No.: KR25-SRF0080-A Page (48) of (54)



7.5. Conducted Spurious Emission

<u>rest setup</u>	 	
EUT	Attenuator	Spectrum analyzer

Limit

According to §15.247(d) and RSS-247(5.5), In any 100 km bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operation, the radio frequency power that is produced by the intentional radiator shall be at least 20 dm below that in the 100 km bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation specified in §15.209(a) is not required. In addition, radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limit: 20 dBc

Test procedure

ANSI C63.10 - Section 11.11.3, 14.3.3 KDB 558074 D01 v05 - Section 8.5 KDB 662911 D01 v02r01 - section (E)(3)(b)

Test settings

Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW \geq [3 x RBW]
- 4) Detector = peak
- 5) Sweep time = auto couple
- 6) Trace mode = max hold
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

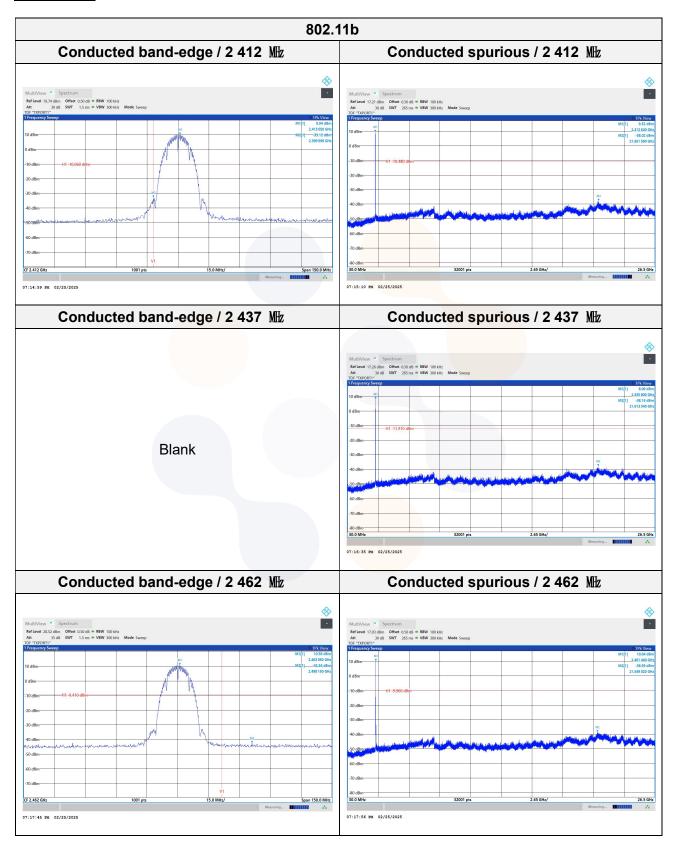
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Report No.: KR25-SRF0080-A Page (49) of (54)



Test results

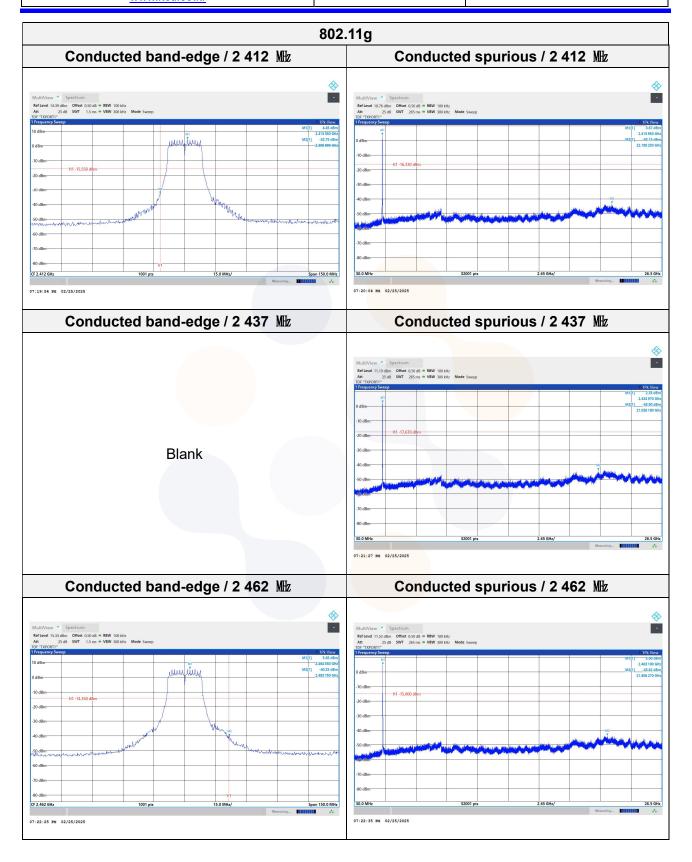


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Report No.: KR25-SRF0080-A Page (50) of (54)



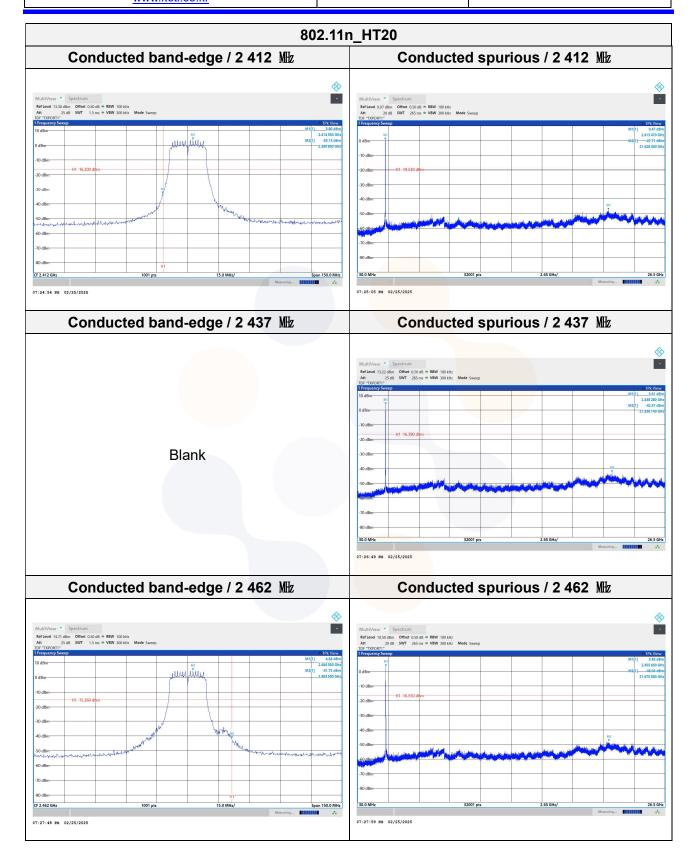


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Report No.: KR25-SRF0080-A Page (51) of (54)





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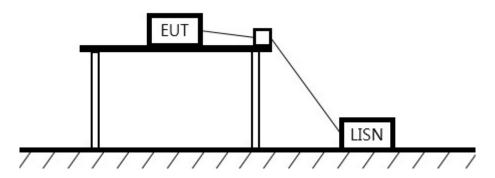
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Report No.: KR25-SRF0080-A Page (52) of (54)



7.6. AC Conducted emission

Test setup



Limit

According to 15.207(a) and RSS-Gen(8.8), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

Fraguency of Emission (ML)	Conducted limit (dBµV/m)			
Frequency of Emission (艦)	Quasi-peak	Average		
0.15 – 0.50	66 - 56*	56 - 46*		
0.50 - 5.00	56	46		
5.00 – 30.0	60	50		

Measurement procedure

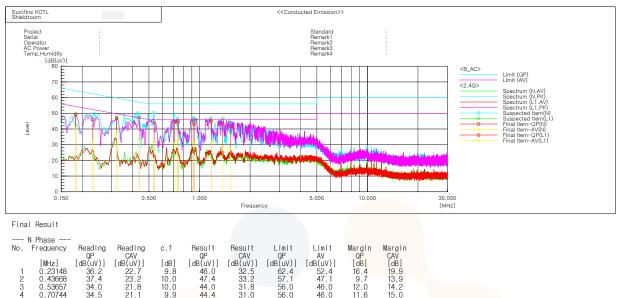
- 1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
- 2. Each current-carrying conductor of the EUT power cord was individually connected through a $50\Omega/50\mu H$ LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
- 3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
- 4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
- 5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 kHz or to quasi-peak and average within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

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Report No.: KR25-SRF0080-A Page (53) of (54)





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Report No.: KR25-SRF0080-A Page (54) of (54)



8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV3044	101421	25.07.26
DC Power Supply	AGILENT	E3632A	MY40000265	25.04.24
Attenuator	Weinschel ENGINEERING	56-10	51395	26.01.21
Power Sensor	R&S	NRP-Z81	1137.9009.02- 106223-bB	25.04.24
Attenuator	HP	8491A	29738	25.10.10
Vector Signal Generator	R&S	SMBV100A	257566	25.07.01
Signal Generator	R&S	SMB100A	176206	26.01.17
Antenna Mast	Innco Systems	MA4640-XP-ET	MA4000/396/3081 0213/L	-
Controller	Innco Systems	CO3000	1175/45850319/P	-
Spectrum Analyzer	R&S	FSV40	100989	25.10.10
Horn antenna	ETS.lindgren	3117	00251528	26.01.21
Horn antenna	ETS.lindgren	3116	00086635	26.01.21
AMPLIFIER	B&Z Technologies	BZRT-00504000- 481055-382525	26299-27735	25.06.24
AMPLIFIER	B&Z Technologies	BZR-0050400- 551028-252525	27736	25.06.24
Attenuator	API Inmet	40AH2W-10	12	25.04.30
High pass Filter	WT	WT-A1698-HS	WT160411001	25.04.25
High pass Filter	WT	WT-A1699-HS	WT160411002	25.04.25
Signal Generator	R&S	SMB100A	176206	26.01.17
Controller	INNCO SYSTEMS	CO3000	1441/54370322/P	-
Antenna Mast	INNCO SYSTEMS	MA4640-XP-ET	-	-
Turn Device	INNCO SYSTEMS	DS1200-S-1t	-	-
Spectrum Analyzer	R&S	FSVA40	101575	25.04.24
Spectrum Analyzer	R&S	FSV40	100988	25.05.27
Amplifier	SONOMA INSTRUMENT	310N	421821	25.10.11
Bilog Antenna	Teseq GmbH	CBL 6112D	63756	26.12.11
Loop Antenna	R&S	HFH2-Z2	100355	26.06.25
DC Power Supply	POWERCOM	DCP-50100A	20220610-02	26.01.16
TWO-LINE V - NETWORK	R&S	ENV216	101358	25.09.27
EMI TEST RECEIVER	R&S	ESCI3	100001	25.08.18

End of test report