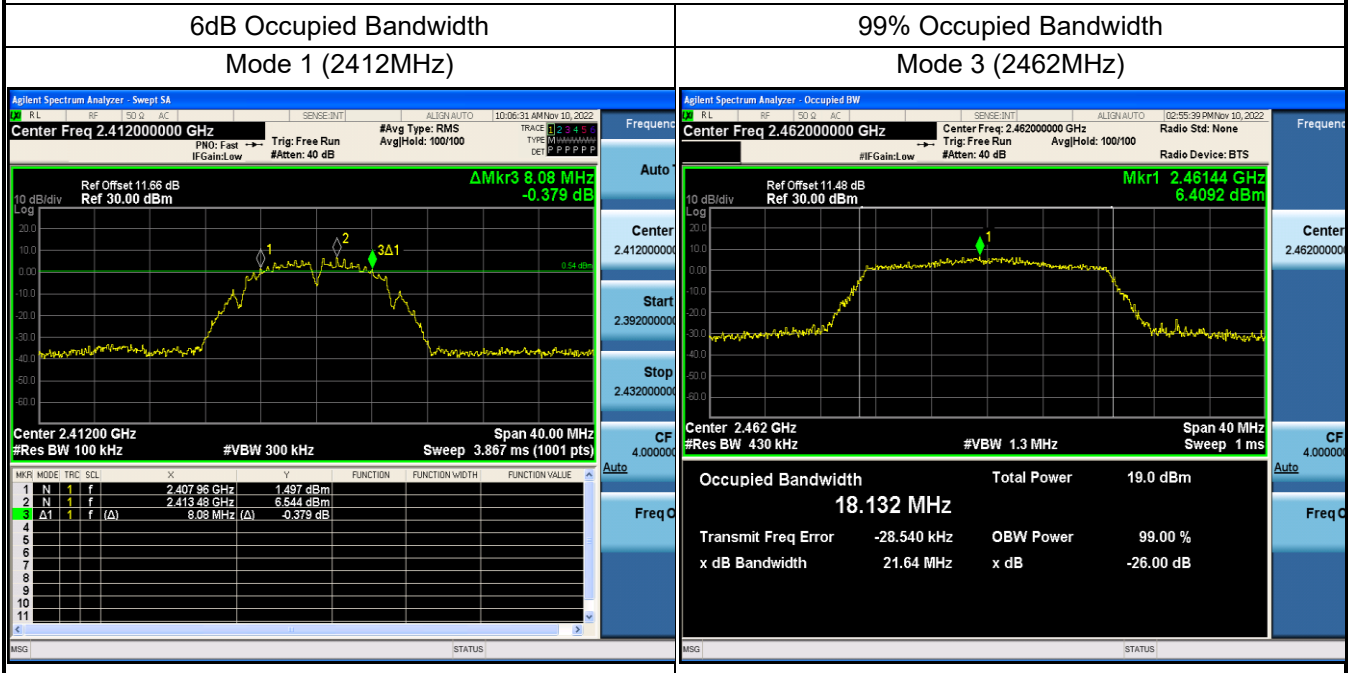


4.6.4 Test Data

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit For 6dB (kHz)	Result
1	1	2412	8.080	11.385	≥500	Pass
	6	2437	8.520	11.460	≥500	Pass
	11	2462	9.040	11.375	≥500	Pass
2	1	2412	16.320	17.092	≥500	Pass
	6	2437	16.000	17.365	≥500	Pass
	11	2462	15.840	17.099	≥500	Pass
3	1	2412	17.240	18.105	≥500	Pass
	6	2437	17.320	18.063	≥500	Pass
	11	2462	17.560	18.132	≥500	Pass

Note : The worst case of Occupied Bandwidth as below in below:



4.7 Fundamental emission output power	VERDICT: PASS
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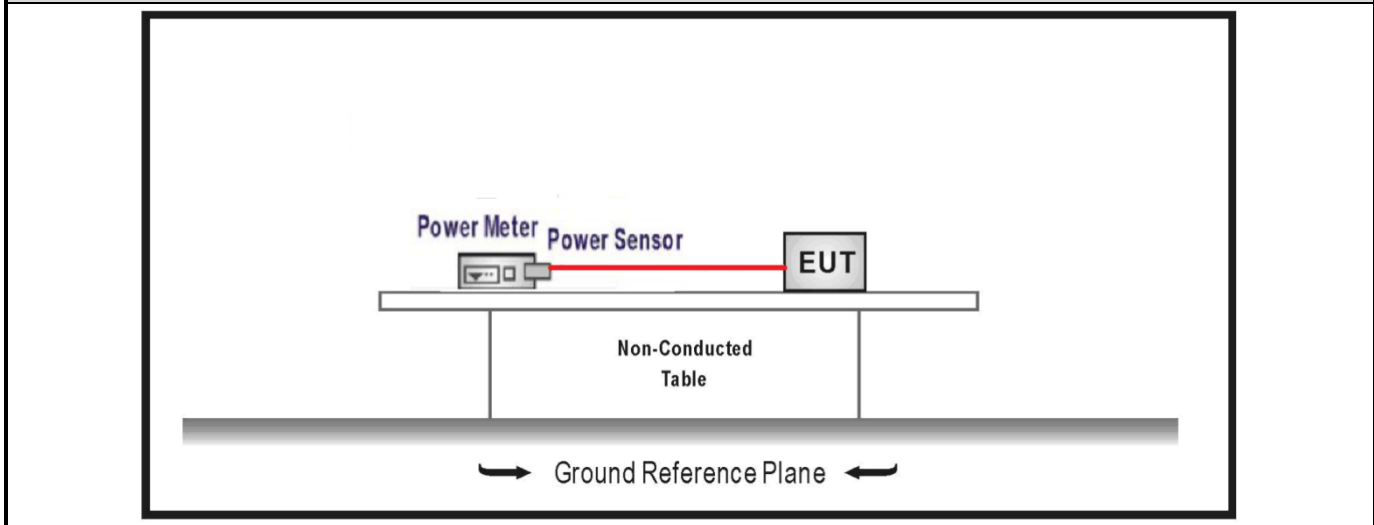
4.7.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247 (b)(3)	
<input checked="" type="checkbox"/> GTX < 6dBi		Pout≤30dBm
<input type="checkbox"/> GTX > 6dBi		
<input type="checkbox"/> Non-Fix point-point		Pout≤30-(GTX -6)
<input type="checkbox"/> Fix point-point		Pout≤30-[(GTX-6)]/3
<input type="checkbox"/> Point-to-multipoint		Pout≤30-(GTX-6)
<input type="checkbox"/> Overlap Beams		Pout≤30-[(GTX-6)]/3
<input type="checkbox"/> Avgregate power transmitted simultaneously on all beams		Pout≤30-[(GTX-6)]/3
<input type="checkbox"/> single directional beam		Pout≤30-[(GTX-6)]/3+8dB

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum conducted output power .

4.7.2 Test Setup



4.7.3 Test Procedure						
	References Rule		Chapter	Description		
<input checked="" type="checkbox"/>	ANSI C63.10		11.9	Fundamental emission output power		
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.1	Maximum peak conducted output power		
	<input type="checkbox"/>	ANSI C63.10	11.9.1.1	RBW ≥ DTS bandwidth		
		ANSI C63.10	11.9.1.2	Integrated band power method		
		ANSI C63.10	11.9.1.3	PKPM1 Peak power meter method		
	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2	Maximum conducted (average) output power		
	<input type="checkbox"/>	<input type="checkbox"/>	ANSI C63.10	11.9.2.2	Measurement using a spectrum analyzer (SA)	
		<input type="checkbox"/>	<input type="checkbox"/>	ANSI C63.10	11.9.2.2.2	Method AVGSA-1(Duty cycle≥98%)
			<input type="checkbox"/>	ANSI C63.10	11.9.2.2.3	Method AVGSA-1A(Duty cycle≥98%)
			<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-2(Duty cycle≤98%)
			<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-2A(Duty cycle≤98%)
			<input type="checkbox"/>	ANSI C63.10	11.9.2.2.4	Method AVGSA-3
			<input type="checkbox"/>	ANSI C63.10	11.9.2.2.5	Method AVGSA-3A
		<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2.3	Measurement using a power meter (PM)	
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ANSI C63.10	11.9.2.3.1	Method AVGPM	
<input type="checkbox"/>		ANSI C63.10	11.9.2.3.2	Method AVGPM-G		

4.7.4 Test Data

peak output power:

Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	16.80	12.72	≤30	≤36	Pass
	6	2437	17.25	13.17	≤30	≤36	Pass
	11	2462	17.57	13.49	≤30	≤36	Pass
Mode 2	1	2412	17.20	13.12	≤30	≤36	Pass
	6	2437	16.97	12.89	≤30	≤36	Pass
	11	2462	18.05	13.97	≤30	≤36	Pass
Mode 3	1	2412	14.60	10.52	≤30	≤36	Pass
	6	2437	14.55	10.47	≤30	≤36	Pass
	11	2462	14.73	10.65	≤30	≤36	Pass

average output power:

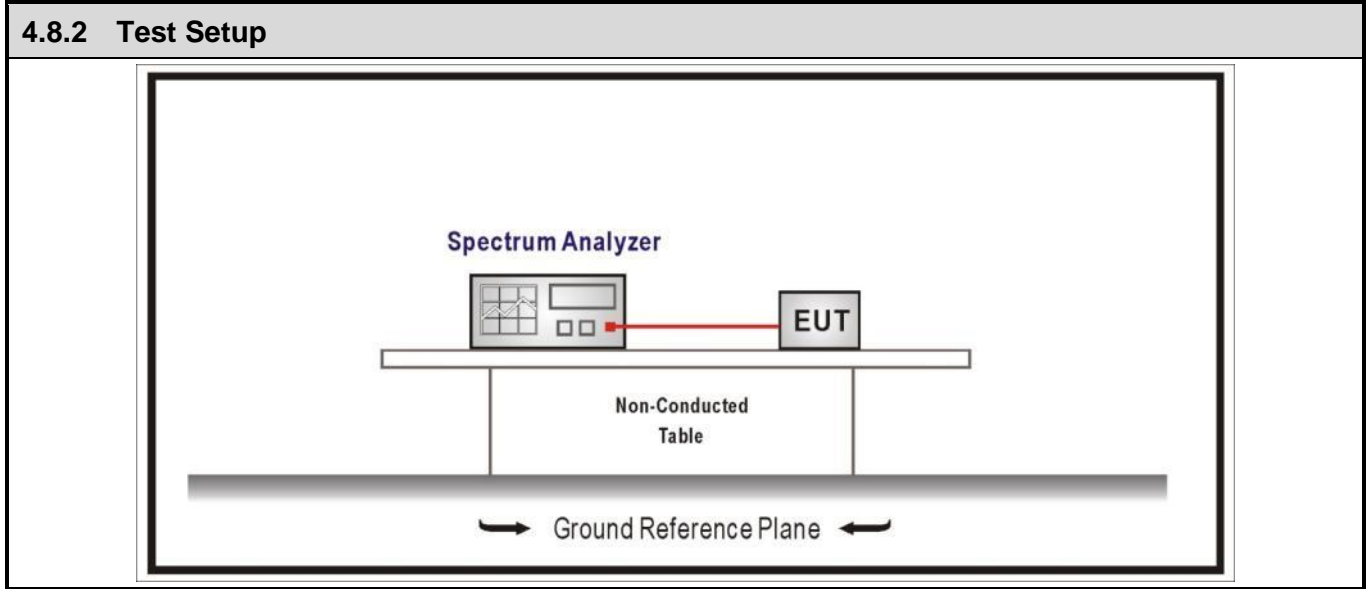
Mode	Channel	Test Frequency (MHz)	Conducted Power (dBm)	EIRP (dBm)	Conducted Power Limit (dBm)	EIRP Limit (dBm)	Result
Mode 1	1	2412	14.91	10.83	≤30	≤36	Pass
	6	2437	15.06	10.98	≤30	≤36	Pass
	11	2462	15.23	11.15	≤30	≤36	Pass
Mode 2	1	2412	14.97	10.89	≤30	≤36	Pass
	6	2437	15.03	10.95	≤30	≤36	Pass
	11	2462	15.22	11.14	≤30	≤36	Pass
Mode 3	1	2412	12.87	8.79	≤30	≤36	Pass
	6	2437	12.93	8.85	≤30	≤36	Pass
	11	2462	13.03	8.95	≤30	≤36	Pass

Power Setting:

Mode	Channel	Test Frequency (MHz)	Power Setting
Mode 1	1	2412	17
	6	2437	17
	11	2462	17
Mode 2	1	2412	17
	6	2437	17
	11	2462	17
Mode 3	1	2412	14
	6	2437	14
	11	2462	14

4.8 Power Density	VERDICT: PASS
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4.8.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.247 (e)
Power Spectral Density ≤ 8dBm/3kHz	

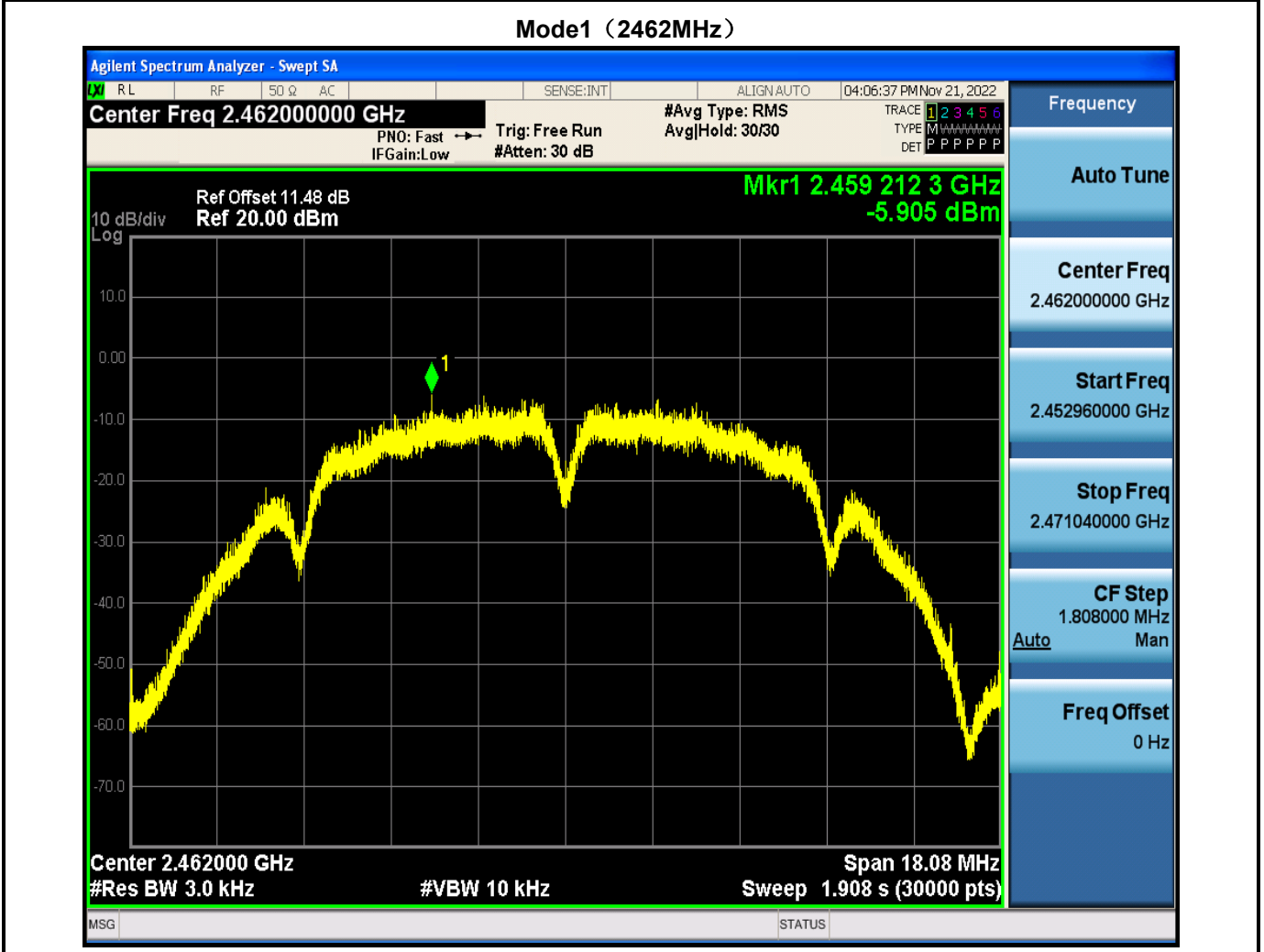


4.8.3 Test Procedure			
	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.10	Maximum power spectral density level in the fundamental emission
<input checked="" type="checkbox"/>	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
<input type="checkbox"/>	ANSI C63.10	11.10.3	Method AVGPSD-1(Duty cycle ≥ 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.4	Method AVGPSD-1A(Duty cycle ≥ 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.5	Method AVGPSD-2(Duty cycle < 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.6	Method AVGPSD-2A(Duty cycle < 98%)
<input type="checkbox"/>	ANSI C63.10	11.10.7	Method AVGPSD-3
<input type="checkbox"/>	ANSI C63.10	11.10.8	Method AVGPSD-3A

4.8.4 Test Data

Mode	Channel	Test Frequency (MHz)	Measurement PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
1	1	2412	-6.46	≤8	Pass
	6	2437	-6.68	≤8	Pass
	11	2462	-5.91	≤8	Pass
2	1	2412	-7.57	≤8	Pass
	6	2437	-7.57	≤8	Pass
	11	2462	-7.41	≤8	Pass
3	1	2412	-10.83	≤8	Pass
	6	2437	-10.24	≤8	Pass
	11	2462	-9.56	≤8	Pass

Note : The worst case of Power Density as below in below:



4.9 Antenna Requirement	VERDICT: PASS
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4.9.1 Limit:

Standard	FCC Part 15 Subpart C Paragraph 15.203
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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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.9.2 Antenna Connector Construction:

- The use of a permanently attached antenna
- The antenna use of a unique coupling to the intentional radiator
- The use of a nonstandard antenna jack or electrical connector

Please refer to the attached document "Internal Photograph" to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

_____ The End _____