

6. CHANNEL BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10: 2013

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.249) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.249(c)	Bandwidth	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = 30kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TSET RESULTS

Temperature :	26℃	Relative Humidity :	54%
Test Mode :	GFSK, $\pi/4$ -DQPSK, 8-DPSK	Test Voltage :	AC 120V/60Hz

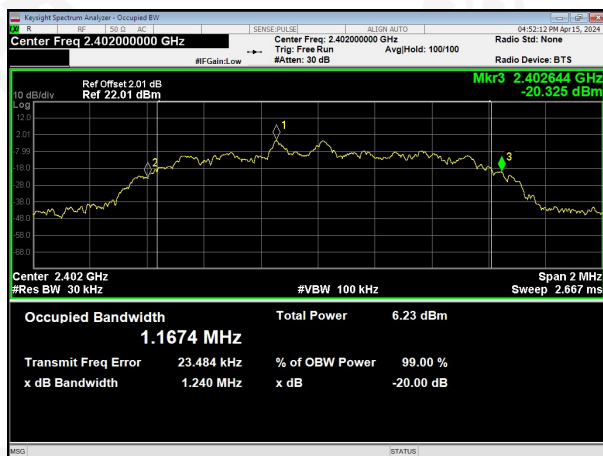
Left ear			
Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
GFSK	Lowest	0.92	Pass
	Middle	0.864	
	Highest	0.866	
$\pi/4$ -DQPSK	Lowest	1.24	Pass
	Middle	1.29	
	Highest	1.249	
8-DPSK	Lowest	1.22	Pass
	Middle	1.219	
	Highest	1.241	

Right ear			
Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
GFSK	Lowest	0.936	Pass
	Middle	1.03	
	Highest	1.03	
$\pi/4$ -DQPSK	Lowest	1.244	Pass
	Middle	1.243	
	Highest	1.257	
8-DPSK	Lowest	1.286	Pass
	Middle	1.279	
	Highest	1.278	

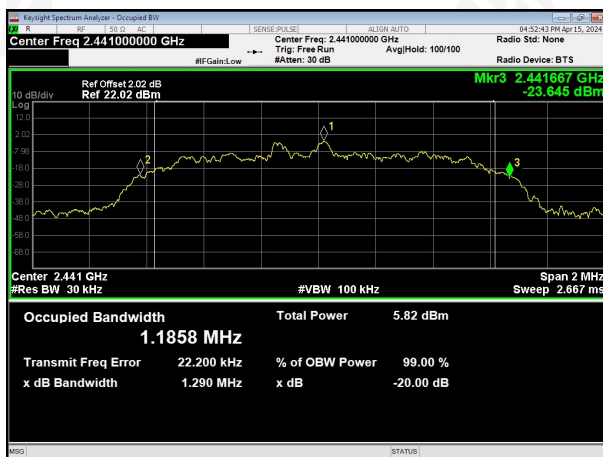
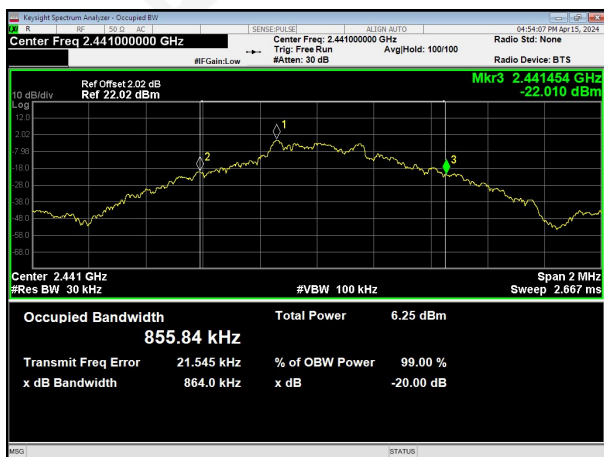
Test plots-Left ear

GFSK

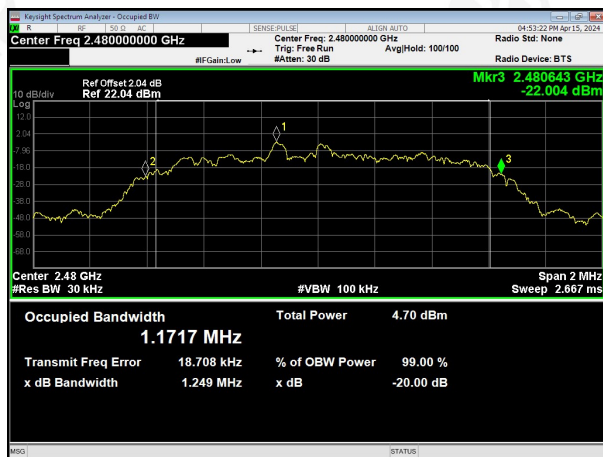
$\pi/4$ -DQPSK



Lowest channel

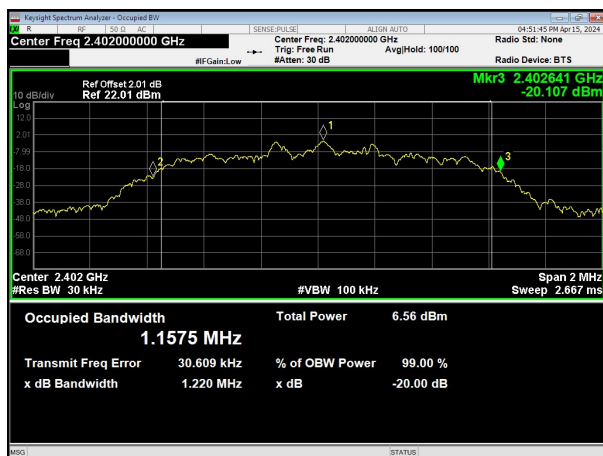


Middle channel

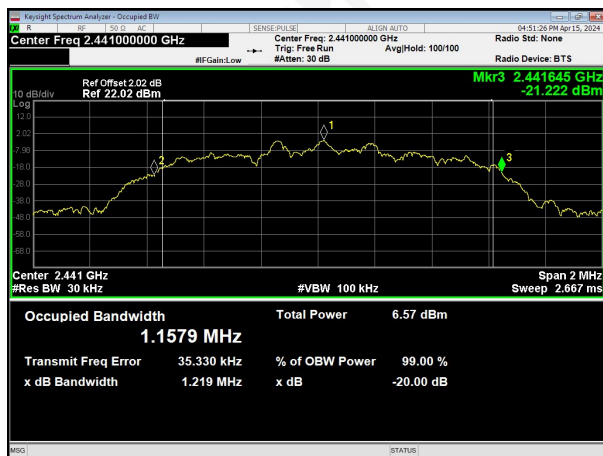


Highest channel

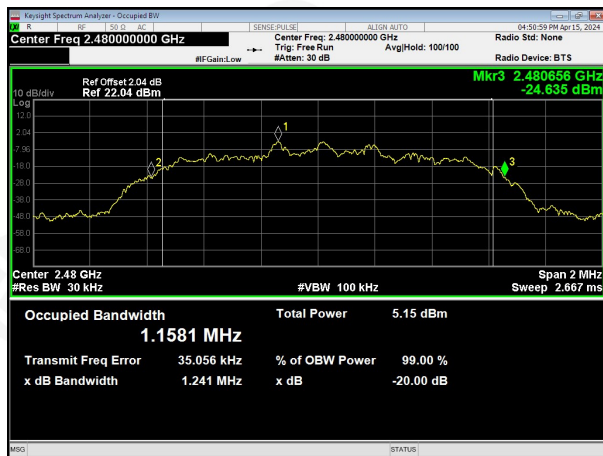
8-DPSK



Lowest channel



Middle channel



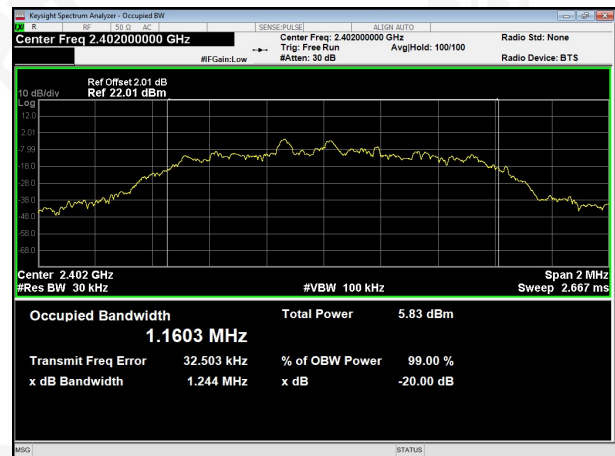
Highest channel

Test plots-Right ear

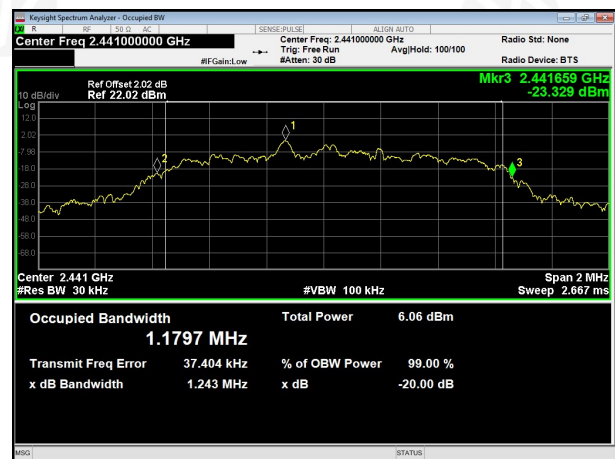
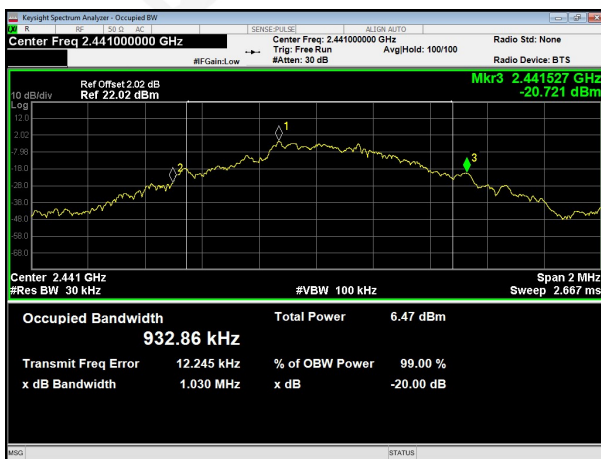
GFSK



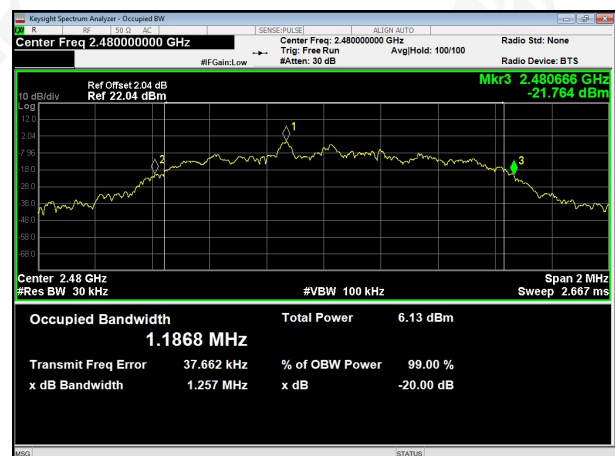
$\pi/4$ -DQPSK



Lowest channel

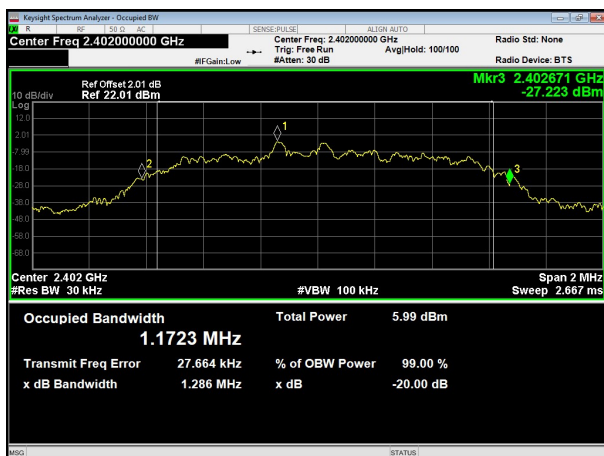


Middle channel

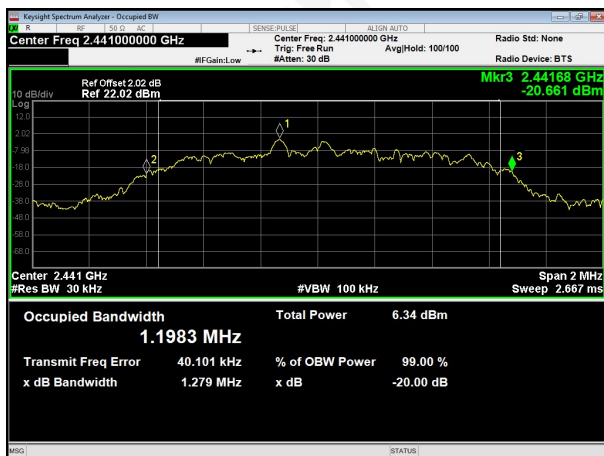


Highest channel

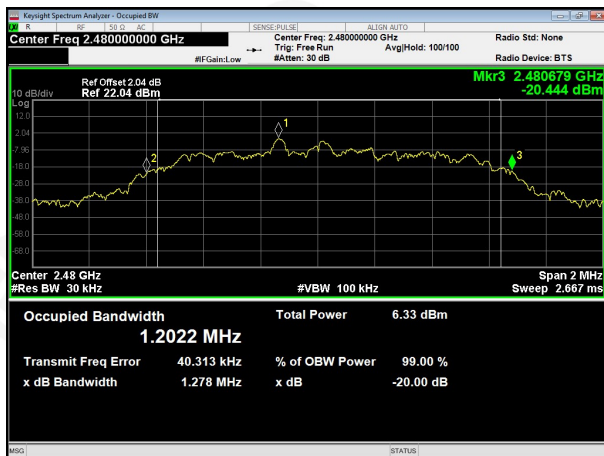
8-DPSK



Lowest channel



Middle channel



Highest channel

7.ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: 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, 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.	
EUT Antenna:	
The antennas are Chip Antenna, the best case gain of the antennas are 2.25dBi, reference to the appendix II for details	

8. TEST SETUP PHOTO

Reference to the appendix I for details.

9. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

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