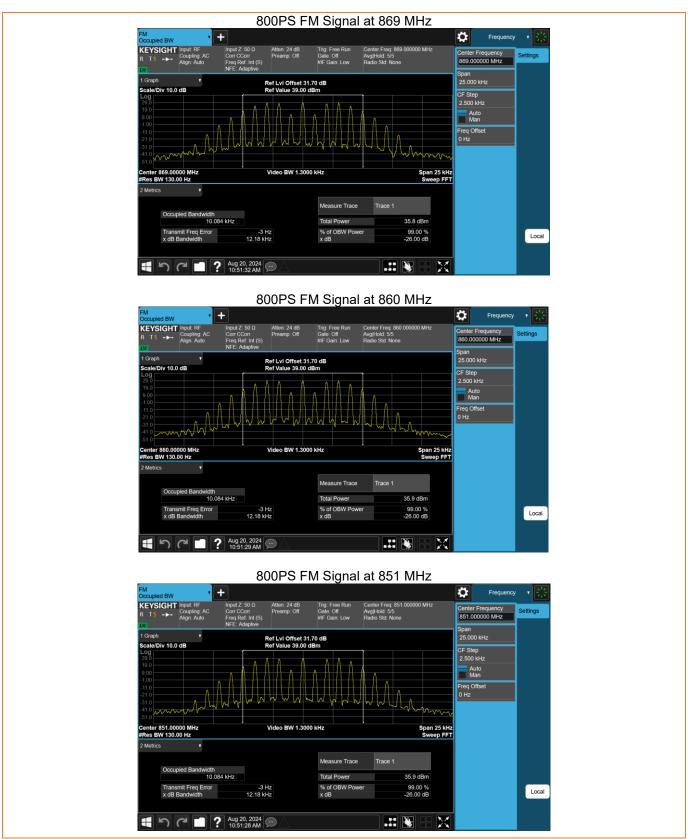
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Local



? Aug 20, 2024 10:51:34 AM Date Issued: July 15, 2025 Project No.: 22327A



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3.3 Out of Band Rejection

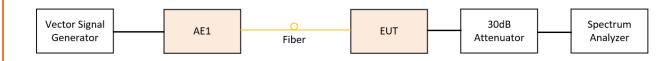
Governing Doc	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90			Room Tempe	erature (°C)	20.5					
Test Procedure	ANSI C63.26-2015, Section 7.2.3.2 KDB 935210 D05, v 3.3, 4.3		Relative Humidity (%)		38.6						
Test Location	Bench top, Richmond Lab			Barometric Pi	ressure	101.8					
Test Engineer	Zara Vali			Date		August 20, 2024					
EUT Voltage											
Test Equipment Used	Manufacturer	Model	Se	erial Number	Calibration date		Calibration due				
Signal Generator	Keysight	N5172B- 506	M	Y53050270	Dec 12, 2	023	Dec 12, 2026				
Spectrum Analyzer	Keysight	N9020B- 526	M	Y62153079	Aug 1, 2023		Aug 1, 2025				
Frequency Range:	⊠ Product Passband ± 250%										
Detector:	⊠ Peak										
RBW/VBW:	$oxtimes$ 1 to 5% of the EUT passband / \geq 3 X RBW										
Type of Facility:	⊠ Tabletop										
Distance:	⊠ Direct										
Compliant ⊠	Non-Compliant □ Not Applicable □										

Test setup

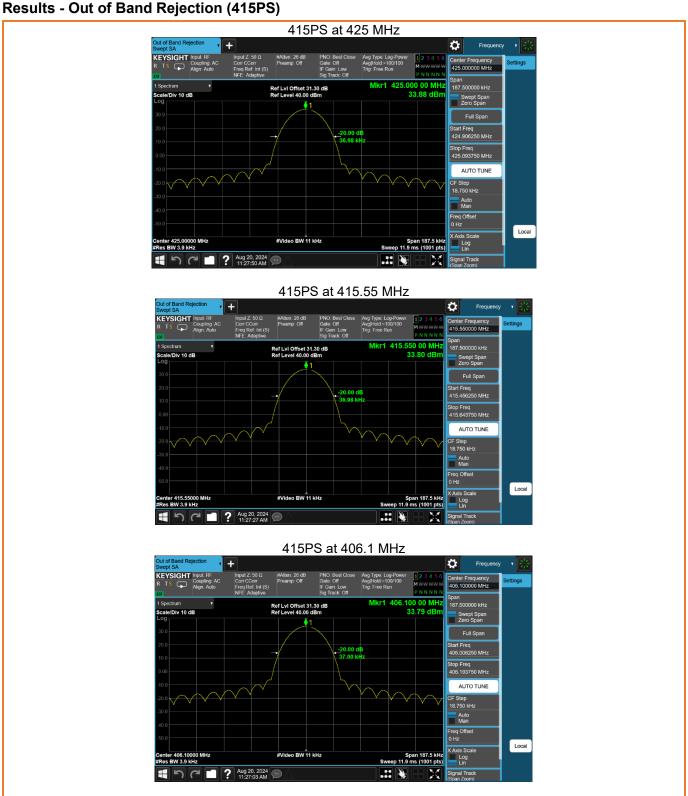
The procedure used was ANSI C63.26-2015. The signal booster was set to maximum gain. A swept CW signal was set to the range of ±250 % of the product pass band. The CW amplitude was set to 3 dB below the AGC threshold so that the ALC should not activate throughout the test.

After the max-hold sweep trace was completed, a marker was set to the peak amplitude, and a 20dB bandwidth was measured between two additional markers fall 20 dB from the peak.

The EUT was set to Operation Mode #1 with configuration Mode #1.



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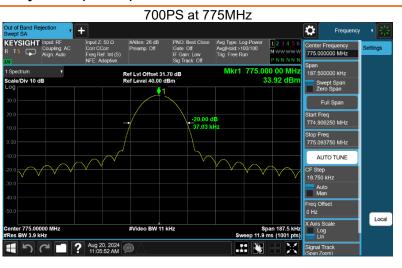
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Results - Out of Band Rejection (465 PS)

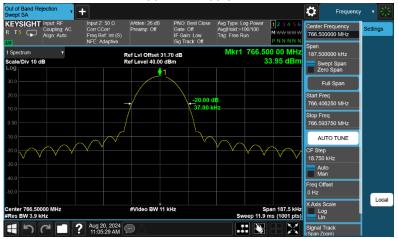


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Results - Out of Band Rejection (700PS)



700PS at 766.5MHz



700PS at 758 MHz



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3.4 Input-Versus-Output Signal Comparison

•												
Governing Doc	RSS-119, Issue 12 2015, Amendment (April 1, 2022) RSS-Gen, Issue 5 2018 FCC Part 90			Room Temperature (°C)			20.5					
Test Procedure	ANSI C63.26-2015, Section 7.2.3.3 KDB 935210 D05, v01r04, Clause 3.4, 4.4			Relative Humidity (%)			38.6					
Test Location	Bench top, Richmond Lab			Barometric Pressure (kPa)		101.8						
Test Engineer	Zara Vali			Date		August 20, 2024						
EUT Voltage	⊠ +48VDC □			120VAC @ 60Hz								
Test Equipment Used	Manufacturer	Model	Serial Number		Calibration date		Calibration due					
Signal Generator	Keysight	N5172B-506	MY53050270		Dec 12, 2023		Dec 12, 2026					
Spectrum Analyzer	Keysight	N9020B-526	MY62153079		Aug 1, 2023		Aug 1, 2025					
Detector:	⊠ Peak											
RBW/VBW:	⊠100 Hz											
Type of Facility:	⊠ Testbench											
Distance:	⊠ direct connect											
Arrangement of EUT: ⊠ Table-top only □ Floor-standing only □ Rack Mounted												
Signal of all types of modulation is contained within the emission mask.												
Compliant ⊠ Non-Compliant □ Not Applicable □												

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Test setup

Spectrum Emission Mask is measured by connecting a Spectrum Analyzer to the RF output connector. The input power was adjusted to produce maximum output power on the antenna port. The reference level was measured with integrated BW of the designated channel BW. The emission was measured with RBW 100 Hz.

Mask types according to FCC § 90.210 Emission masks were applied to all measurements. The mask applied is specified in the title of each plot.

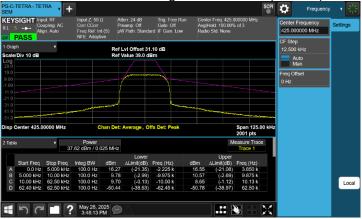
The EUT was set to Operation Mode #1 with configuration Mode #1.



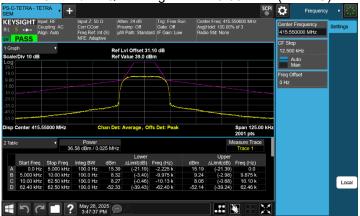
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Results - Spectrum Emission Mask (415PS)

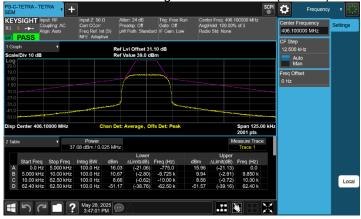
415PS π/4 DQPSK Signal at 425 MHz (Mask C)



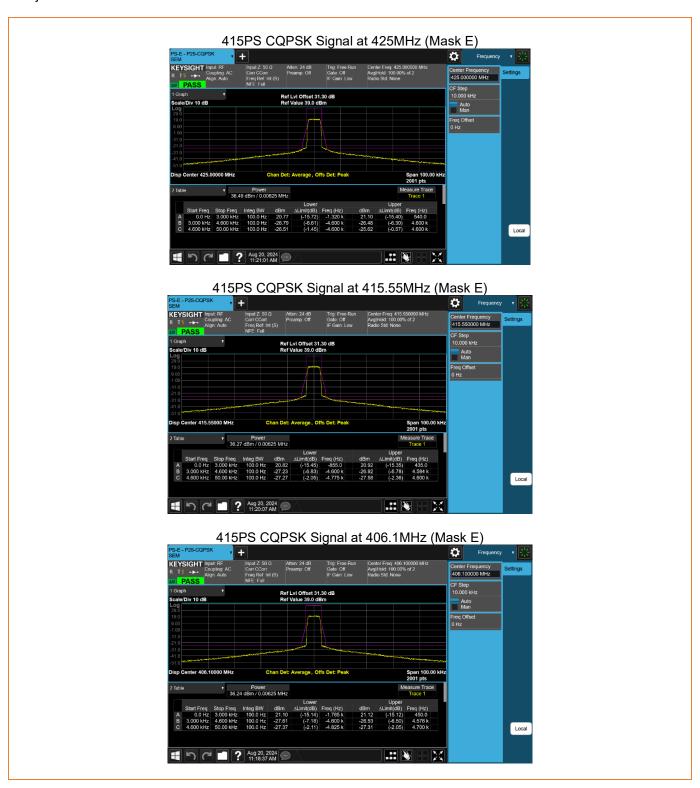
415PS π/4 DQPSK Signal at 415.55 MHz (Mask C)



415PS π/4 DQPSK Signal at 406.1 MHz (Mask C)



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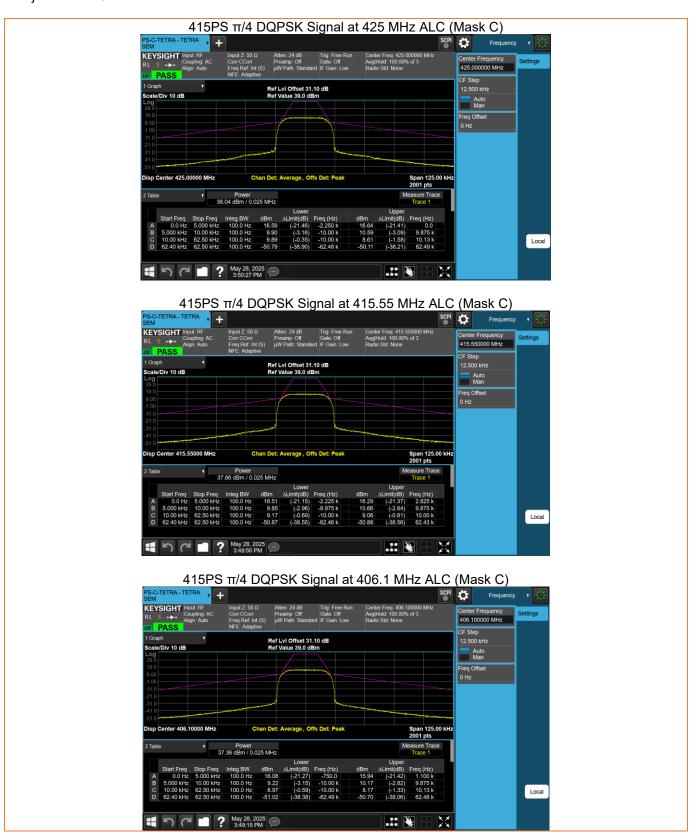
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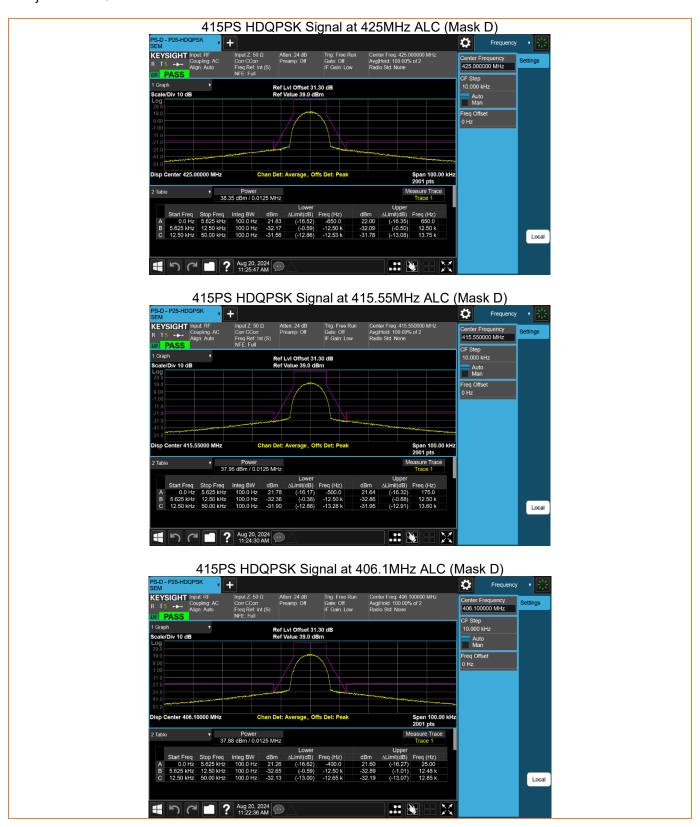
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Results - Spectrum Emission Mask (465 PS)



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