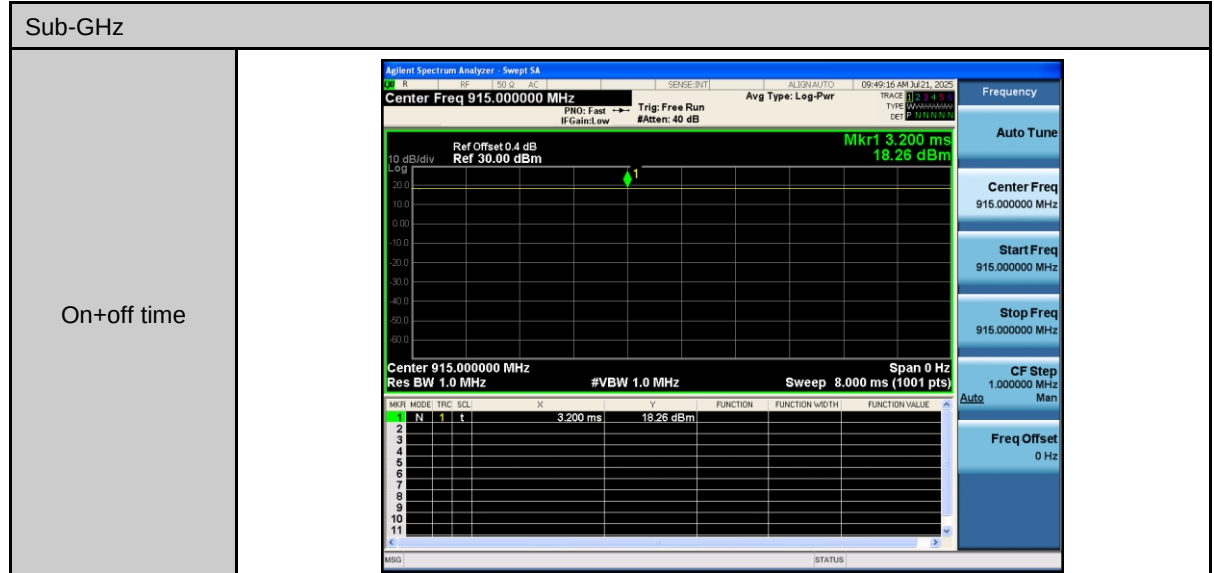


Appendix B. Test Plots

Duty cycle



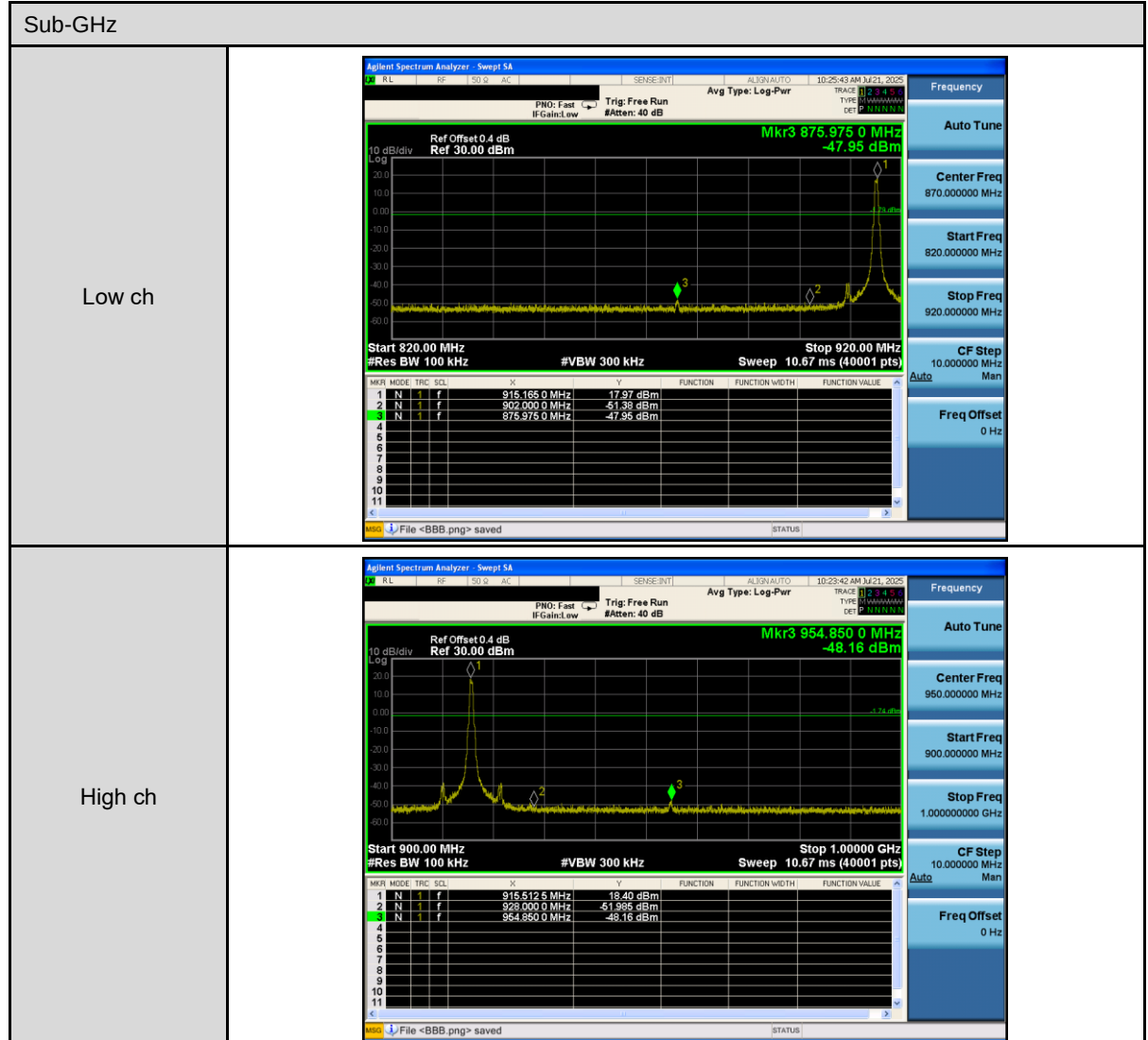
Out of Band Conducted Spurious Emission

Sub-GHz																																																																																																													
Low ch	Agilent Spectrum Analyzer - Sweep 1A RL RF 50 Ω AC SENSE:INT ALIGN:Auto 10:17:50 AM Jul 21, 2025 PRF: Fast IF Gain: 1.00 Trig: Free Run Avg Type: Log-Pwr TYPE: E-WWWWWWW DET: P-MINMAX Ref Offset 0.4 dB Ref 30.00 dBm Mkr2 24.169 7 GHz -38.32 dBm 10 dB/div Log 20.0 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 1 2 Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.387 s (40001 pts) Stop 25.00 GHz <table><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>914.6 MHz</td><td>17.08 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.169 7 GHz</td><td>-38.32 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> File <BBB.png> saved STATUS Frequency Auto Tune Center Freq 12.515000000 GHz Start Freq 30.0000000 MHz Stop Freq 25.000000000 GHz CF Step 2.497000000 GHz Auto Man Freq Offset 0 Hz	MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	914.6 MHz	17.08 dBm				2	N	1	f	24.169 7 GHz	-38.32 dBm				3									4									5									6									7									8									9									10									11								
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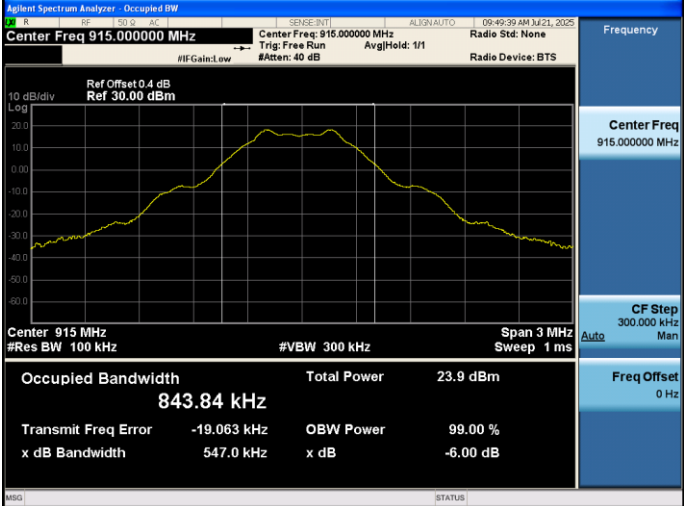
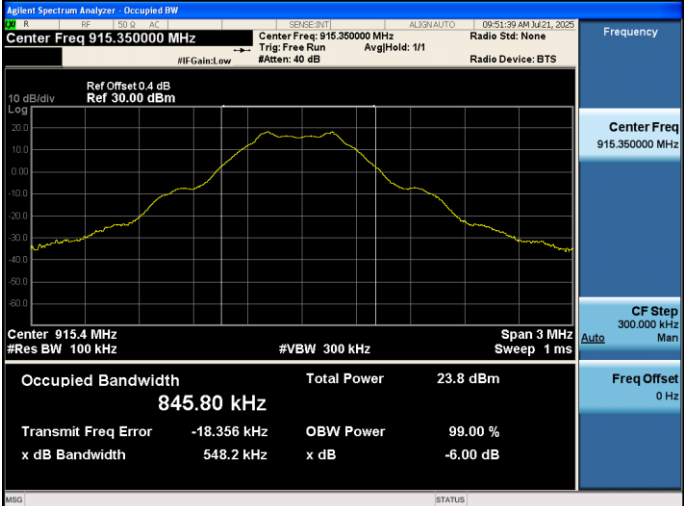
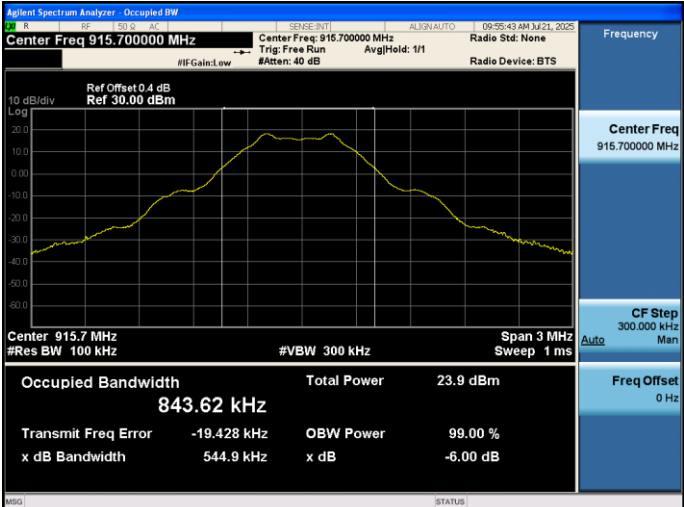
Reference level

Sub-GHz	
Low ch	 Agilent Spectrum Analyzer - Swept SA Center Freq 915.000000 MHz Ref Offset 0.4 dB Ref 30.00 dBm Mkr1 915.152 6 MHz 18.21 dBm Span 820.5 kHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)
Mid ch	 Agilent Spectrum Analyzer - Swept SA Center Freq 915.350000 MHz Ref Offset 0.4 dB Ref 30.00 dBm Mkr1 915.506 2 MHz 18.26 dBm Span 822.3 kHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)
High ch	 Agilent Spectrum Analyzer - Swept SA Center Freq 915.700000 MHz Ref Offset 0.4 dB Ref 30.00 dBm Mkr1 915.504 7 MHz 18.26 dBm Span 817.3 kHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)

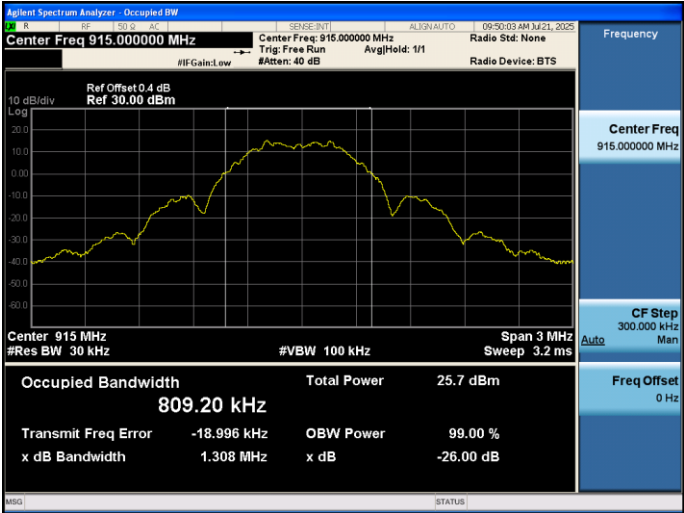
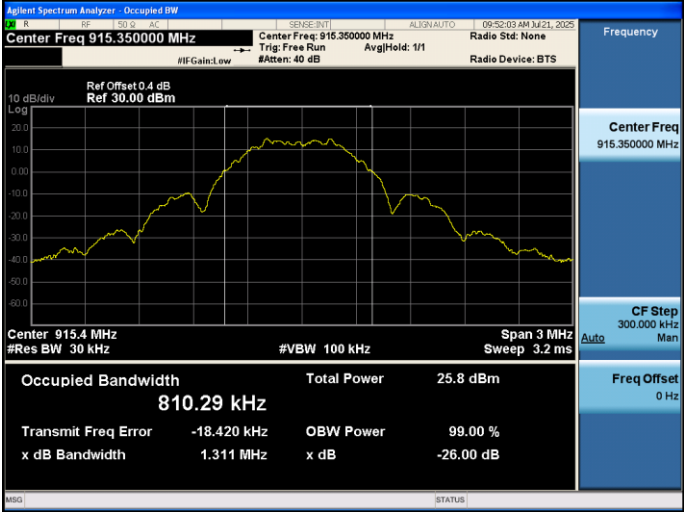
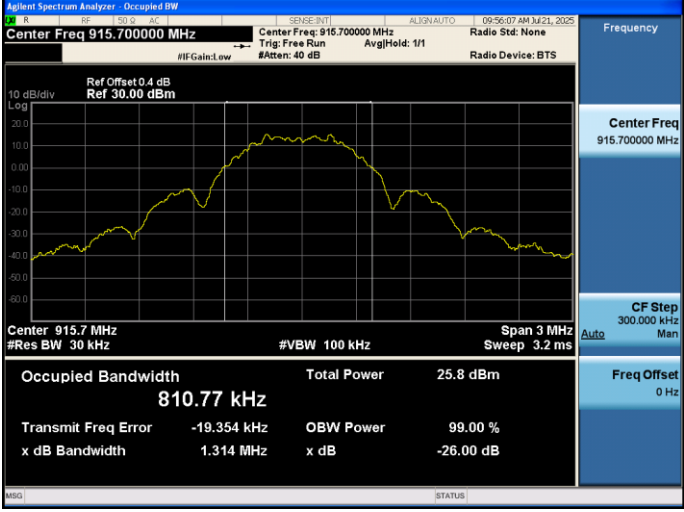
Conducted Band Edge



6 dB Bandwidth

Sub-GHz	
Low ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 915.000000 MHz Ref Offset: 0.4 dB, Ref: 30.00 dBm Occupied Bandwidth: 843.84 kHz Total Power: 23.9 dBm Transmit Freq Error: -19.063 kHz x dB Bandwidth: 547.0 kHz
Mid ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 915.350000 MHz Ref Offset: 0.4 dB, Ref: 30.00 dBm Occupied Bandwidth: 845.80 kHz Total Power: 23.8 dBm Transmit Freq Error: -18.356 kHz x dB Bandwidth: 548.2 kHz
High ch	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 915.700000 MHz Ref Offset: 0.4 dB, Ref: 30.00 dBm Occupied Bandwidth: 843.62 kHz Total Power: 23.9 dBm Transmit Freq Error: -19.428 kHz x dB Bandwidth: 544.9 kHz

99 % Occupied Bandwidth

Sub-GHz	
Low ch	
Mid ch	
High ch	

Power Density

Sub-GHz	
Low ch	Agilent Spectrum Analyzer - Swept SA Center Freq 915.00000 MHz Ref Offset 0.4 dB Ref 30.00 dBm Mkr1 915.1567 MHz 6.74 dBm Center 915.0000 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 86.53 ms (1001 pts)
Mid ch	Agilent Spectrum Analyzer - Swept SA Center Freq 915.35000 MHz Ref Offset 0.4 dB Ref 30.00 dBm Mkr1 915.5071 MHz 6.50 dBm Center 915.3500 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 86.73 ms (1001 pts)
High ch	Agilent Spectrum Analyzer - Swept SA Center Freq 915.70000 MHz Ref Offset 0.4 dB Ref 30.00 dBm Mkr1 915.5047 MHz 6.41 dBm Center 915.7000 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 86.20 ms (1001 pts)