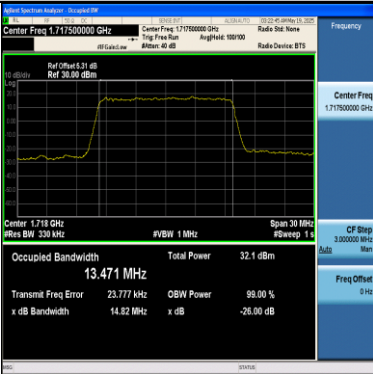
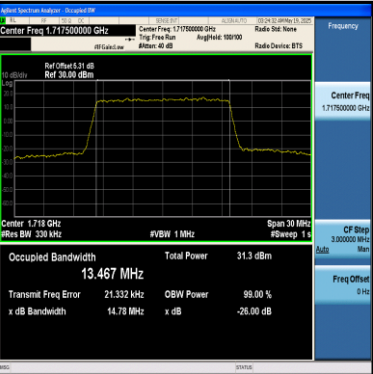
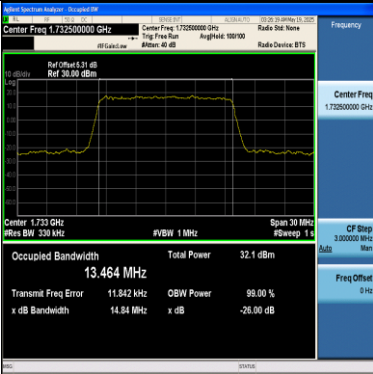
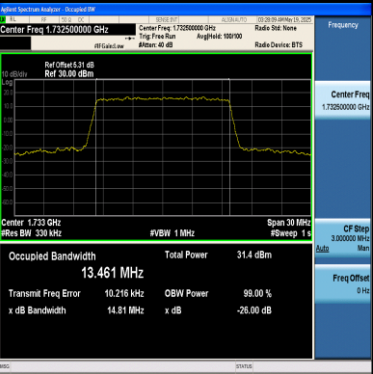
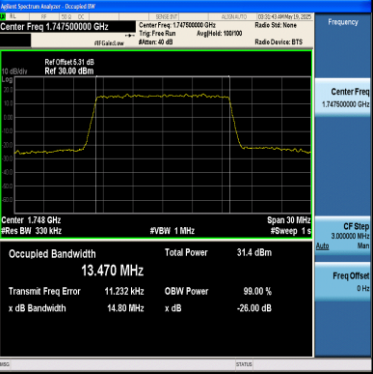
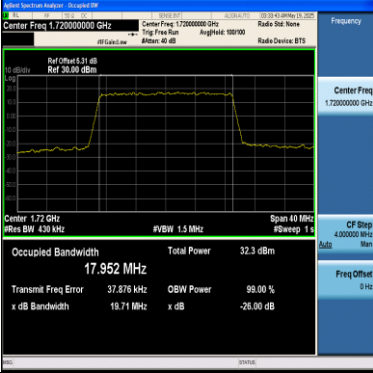
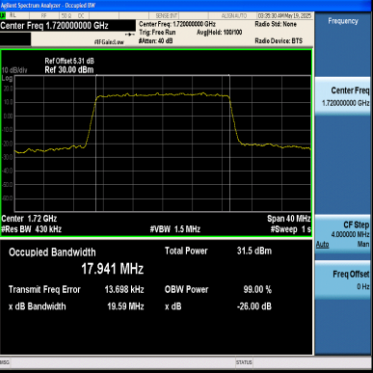
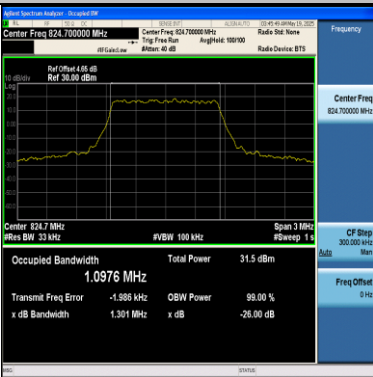
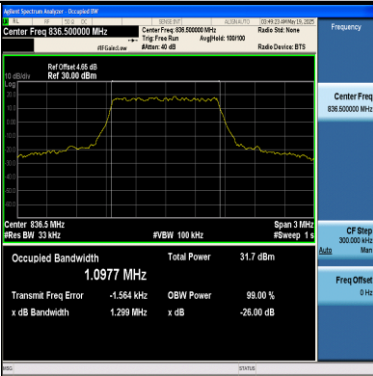
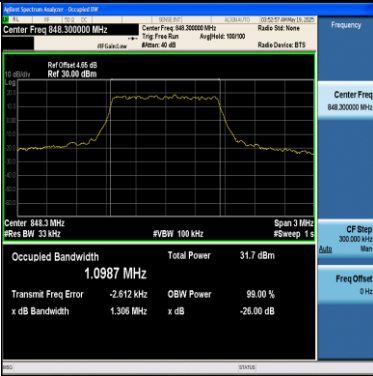
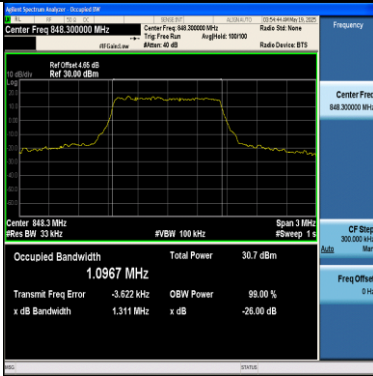
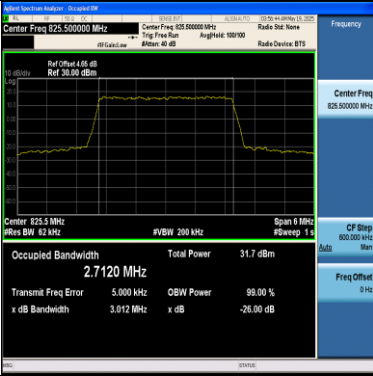
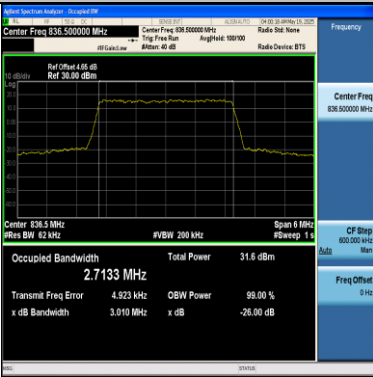
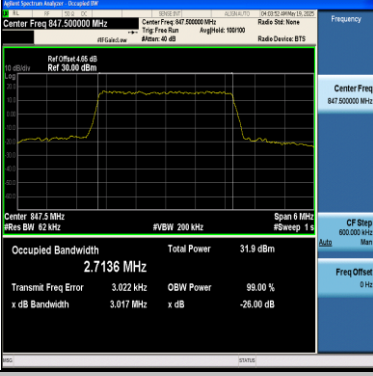
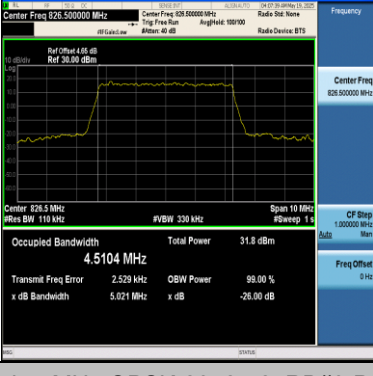
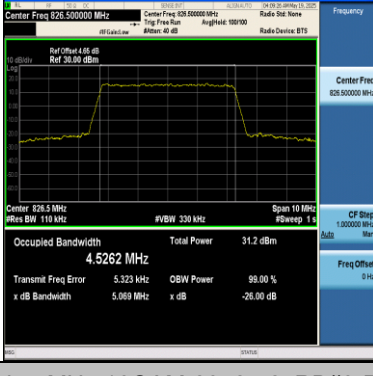
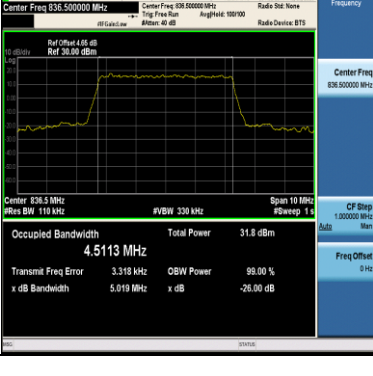
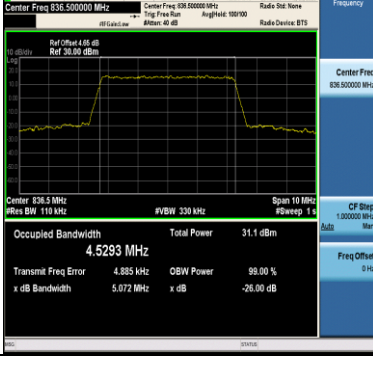


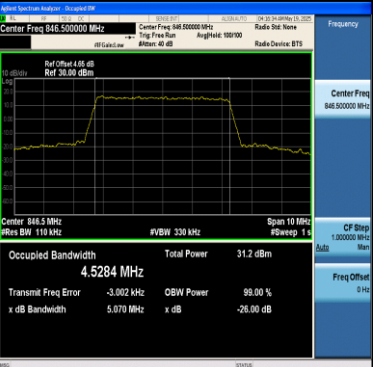
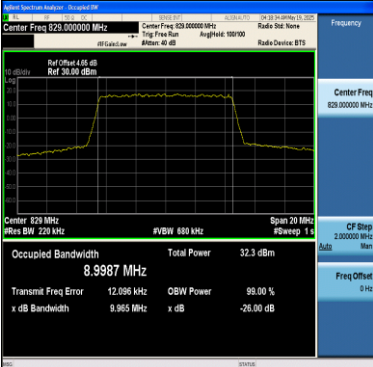
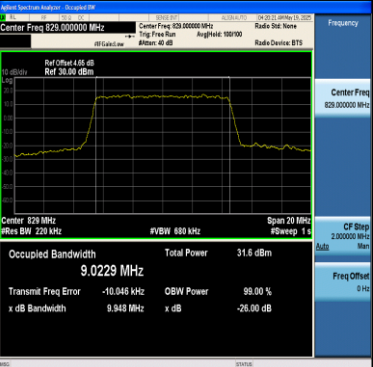
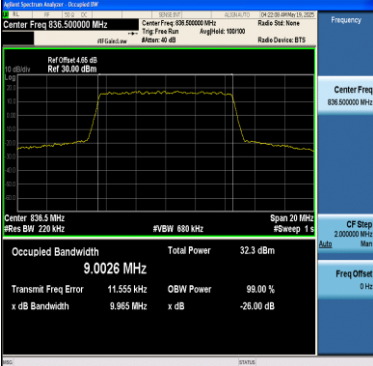
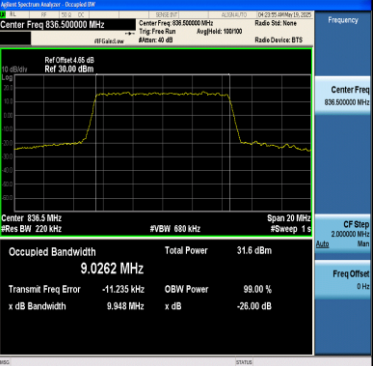
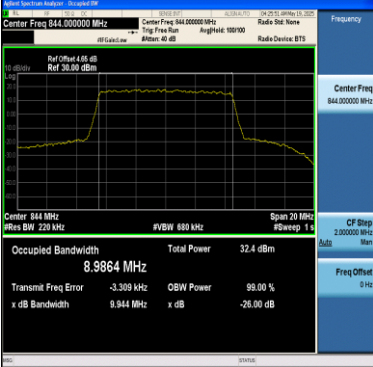
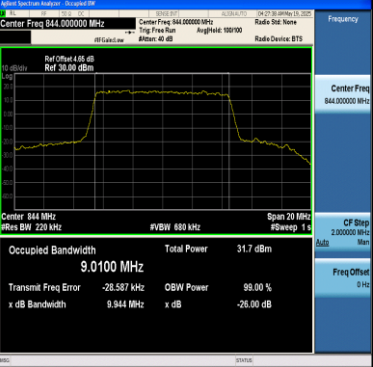
Band4-15MHz-QPSK-20025-75RB#0-PASS	Band4-15MHz-16QAM-20025-75RB#0-PASS
 Center Freq 1.71750000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Occupied Bandwidth 13.471 MHz Total Power 32.1 dBm Transmit Freq Error 23.777 kHz OBW Power 99.00 % x dB Bandwidth 14.82 MHz x dB -26.00 dB	 Center Freq 1.71750000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Occupied Bandwidth 13.467 MHz Total Power 31.3 dBm Transmit Freq Error 21.332 kHz OBW Power 99.00 % x dB Bandwidth 14.78 MHz x dB -26.00 dB
Band4-15MHz-QPSK-20175-75RB#0-PASS	Band4-15MHz-16QAM-20175-75RB#0-PASS
 Center Freq 1.73250000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Occupied Bandwidth 13.464 MHz Total Power 32.1 dBm Transmit Freq Error 11.842 kHz OBW Power 99.00 % x dB Bandwidth 14.84 MHz x dB -26.00 dB	 Center Freq 1.73250000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Occupied Bandwidth 13.461 MHz Total Power 31.4 dBm Transmit Freq Error 10.216 kHz OBW Power 99.00 % x dB Bandwidth 14.81 MHz x dB -26.00 dB
Band4-15MHz-QPSK-20325-75RB#0-PASS	Band4-15MHz-16QAM-20325-75RB#0-PASS
 Center Freq 1.74750000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Occupied Bandwidth 13.474 MHz Total Power 32.2 dBm Transmit Freq Error 14.971 kHz OBW Power 99.00 % x dB Bandwidth 14.83 MHz x dB -26.00 dB	 Center Freq 1.74750000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Occupied Bandwidth 13.470 MHz Total Power 31.4 dBm Transmit Freq Error 11.232 kHz OBW Power 99.00 % x dB Bandwidth 14.80 MHz x dB -26.00 dB
Band4-20MHz-QPSK-20050-100RB#0-PASS	Band4-20MHz-16QAM-20050-100RB#0-PASS
 Center Freq 1.72000000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Occupied Bandwidth 17.952 MHz Total Power 32.3 dBm Transmit Freq Error 37.876 kHz OBW Power 99.00 % x dB Bandwidth 19.71 MHz x dB -26.00 dB	 Center Freq 1.72000000 GHz Ref Offset 5.31 dB Ref 38.00 dBm Occupied Bandwidth 17.941 MHz Total Power 31.5 dBm Transmit Freq Error 13.688 kHz OBW Power 99.00 % x dB Bandwidth 19.59 MHz x dB -26.00 dB



LTE Band 5 Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0-PASS		Band5-1.4MHz-16QAM-20407-6RB#0-PASS	
			
Band5-1.4MHz-QPSK-20525-6RB#0-PASS		Band5-1.4MHz-16QAM-20525-6RB#0-PASS	
			
Band5-1.4MHz-QPSK-20643-6RB#0-PASS		Band5-1.4MHz-16QAM-20643-6RB#0-PASS	
			
Band5-3MHz-QPSK-20415-15RB#0-PASS		Band5-3MHz-16QAM-20415-15RB#0-PASS	
			

Band5-3MHz-QPSK-20525-15RB#0-PASS		Band5-3MHz-16QAM-20525-15RB#0-PASS	
 Center Freq 836.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 836.5 MHz Ref BW 62 kHz Span 6 MHz VBW 200 kHz Sweep 1 s Occupied Bandwidth 2.7133 MHz Total Power 31.6 dBm Transmit Freq Error 4.923 kHz x dB Bandwidth 3.010 MHz x dB Power -26.00 dB		 Center Freq 836.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 836.5 MHz Ref BW 62 kHz Span 6 MHz VBW 200 kHz Sweep 1 s Occupied Bandwidth 2.6958 MHz Total Power 31.3 dBm Transmit Freq Error 470 Hz x dB Bandwidth 2.990 MHz x dB Power -26.00 dB	
Band5-3MHz-QPSK-20635-15RB#0-PASS		Band5-3MHz-16QAM-20635-15RB#0-PASS	
 Center Freq 847.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 847.5 MHz Ref BW 62 kHz Span 6 MHz VBW 200 kHz Sweep 1 s Occupied Bandwidth 2.7136 MHz Total Power 31.9 dBm Transmit Freq Error 3.022 kHz x dB Bandwidth 3.017 MHz x dB Power -26.00 dB		 Center Freq 847.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 847.5 MHz Ref BW 62 kHz Span 6 MHz VBW 200 kHz Sweep 1 s Occupied Bandwidth 2.6958 MHz Total Power 31.4 dBm Transmit Freq Error -2.536 kHz x dB Bandwidth 2.997 MHz x dB Power -26.00 dB	
Band5-5MHz-QPSK-20425-25RB#0-PASS		Band5-5MHz-16QAM-20425-25RB#0-PASS	
 Center Freq 826.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 826.5 MHz Ref BW 110 kHz Span 10 MHz VBW 330 kHz Sweep 1 s Occupied Bandwidth 4.5104 MHz Total Power 31.8 dBm Transmit Freq Error 2.529 kHz x dB Bandwidth 5.021 MHz x dB Power -26.00 dB		 Center Freq 826.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 826.5 MHz Ref BW 110 kHz Span 10 MHz VBW 330 kHz Sweep 1 s Occupied Bandwidth 4.5262 MHz Total Power 31.2 dBm Transmit Freq Error 5.323 kHz x dB Bandwidth 5.069 MHz x dB Power -26.00 dB	
Band5-5MHz-QPSK-20525-25RB#0-PASS		Band5-5MHz-16QAM-20525-25RB#0-PASS	
 Center Freq 836.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 836.5 MHz Ref BW 110 kHz Span 10 MHz VBW 330 kHz Sweep 1 s Occupied Bandwidth 4.5113 MHz Total Power 31.8 dBm Transmit Freq Error 3.318 kHz x dB Bandwidth 5.019 MHz x dB Power -26.00 dB		 Center Freq 836.500000 MHz Ref Offset 4.05 dB Ref 30.00 dBm Center Freq 836.5 MHz Ref BW 110 kHz Span 10 MHz VBW 330 kHz Sweep 1 s Occupied Bandwidth 4.5293 MHz Total Power 31.1 dBm Transmit Freq Error 4.885 kHz x dB Bandwidth 5.072 MHz x dB Power -26.00 dB	

Band5-5MHz-QPSK-20625-25RB#0-PASS  Center Freq 846.500000 MHz Span 10 MHz Occupied Bandwidth 4.5116 MHz Total Power 32.0 dBm Transmit Freq Error -3.833 kHz OBW Power 99.00 %	Band5-5MHz-16QAM-20625-25RB#0-PASS  Center Freq 846.500000 MHz Span 10 MHz Occupied Bandwidth 4.5284 MHz Total Power 31.2 dBm Transmit Freq Error -3.802 kHz OBW Power 99.00 %
Band5-10MHz-QPSK-20450-50RB#0-PASS  Center Freq 829.000000 MHz Span 20 MHz Occupied Bandwidth 8.9887 MHz Total Power 32.3 dBm Transmit Freq Error 12.096 kHz OBW Power 99.00 %	Band5-10MHz-16QAM-20450-50RB#0-PASS  Center Freq 829.000000 MHz Span 20 MHz Occupied Bandwidth 9.0229 MHz Total Power 31.6 dBm Transmit Freq Error -10.048 kHz OBW Power 99.00 %
Band5-10MHz-QPSK-20525-50RB#0-PASS  Center Freq 836.500000 MHz Span 20 MHz Occupied Bandwidth 9.0026 MHz Total Power 32.3 dBm Transmit Freq Error 11.555 kHz OBW Power 99.00 %	Band5-10MHz-16QAM-20525-50RB#0-PASS  Center Freq 836.500000 MHz Span 20 MHz Occupied Bandwidth 9.0262 MHz Total Power 31.6 dBm Transmit Freq Error -11.235 kHz OBW Power 99.00 %
Band5-10MHz-QPSK-20600-50RB#0-PASS  Center Freq 844.000000 MHz Span 20 MHz Occupied Bandwidth 8.9864 MHz Total Power 32.4 dBm Transmit Freq Error -3.309 kHz OBW Power 99.00 %	Band5-10MHz-16QAM-20600-50RB#0-PASS  Center Freq 844.000000 MHz Span 20 MHz Occupied Bandwidth 9.0100 MHz Total Power 31.7 dBm Transmit Freq Error -28.587 kHz OBW Power 99.00 %

The figure displays eight screenshots of a Vector Signal Analyzer (VSA) interface, arranged in a 4x2 grid. Each screenshot shows the results of a spectral analysis for a specific signal configuration. The top half of each plot shows a frequency spectrum graph with a yellow trace representing the signal power across a range of frequencies. The bottom half contains a table of key performance indicators (KPIs) and a frequency offset graph.

Row 1: Band 7-5MHz-QPSK-20775-25RB#0-PASS

- Left Plot:** Center Freq: 2.543 GHz, Span: 10 MHz, Res BW: 110 kHz, PVBW: 330 kHz. Occupied Bandwidth: 4.5095 MHz, Total Power: 30.8 dBm, Transmit Freq Error: 1.834 kHz, OBW Power: 99.00%, x dB Bandwidth: 5.020 MHz, x dB: -26.00 dB.
- Right Plot:** Center Freq: 2.502500000 GHz, Span: 10 MHz, Res BW: 110 kHz, PVBW: 330 kHz. Occupied Bandwidth: 4.5265 MHz, Total Power: 30.1 dBm, Transmit Freq Error: 3.859 kHz, OBW Power: 99.00%, x dB Bandwidth: 5.067 MHz, x dB: -26.00 dB.

Row 2: Band 7-5MHz-QPSK-21100-25RB#0-PASS

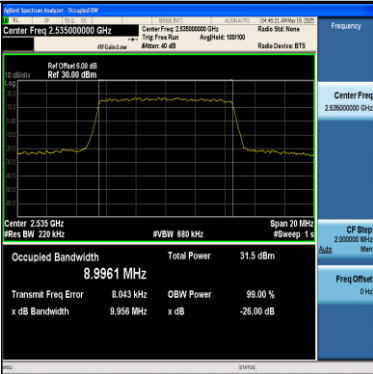
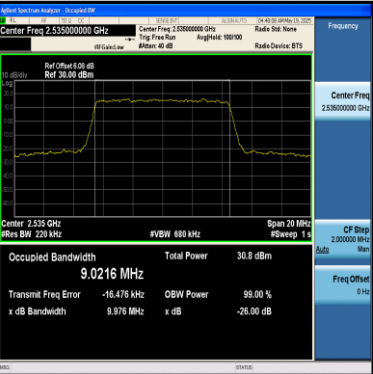
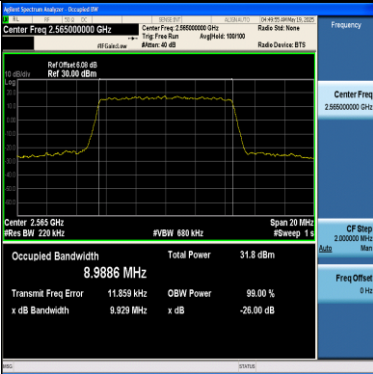
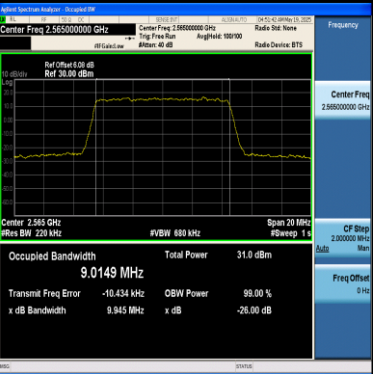
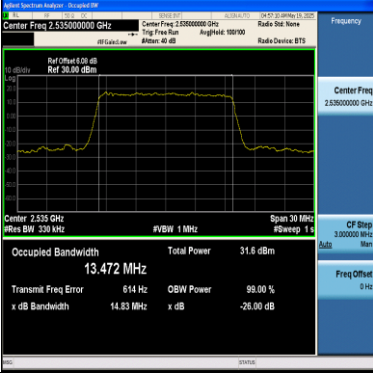
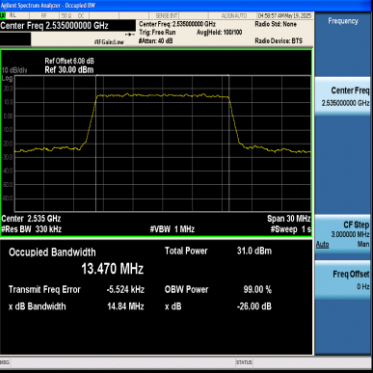
- Left Plot:** Center Freq: 2.535 GHz, Span: 10 MHz, Res BW: 110 kHz, PVBW: 330 kHz. Occupied Bandwidth: 4.5087 MHz, Total Power: 31.1 dBm, Transmit Freq Error: 954 Hz, OBW Power: 99.00%, x dB Bandwidth: 5.026 MHz, x dB: -26.00 dB.
- Right Plot:** Center Freq: 2.535 GHz, Span: 10 MHz, Res BW: 110 kHz, PVBW: 330 kHz. Occupied Bandwidth: 4.5259 MHz, Total Power: 30.4 dBm, Transmit Freq Error: 3.154 kHz, OBW Power: 99.00%, x dB Bandwidth: 5.063 MHz, x dB: -26.00 dB.

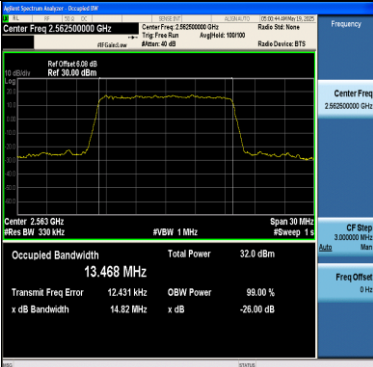
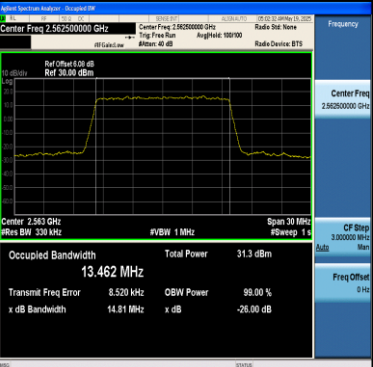
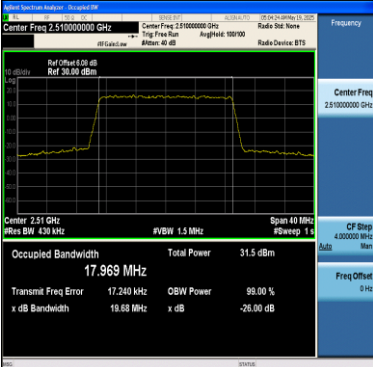
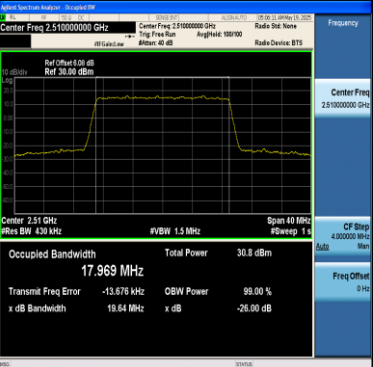
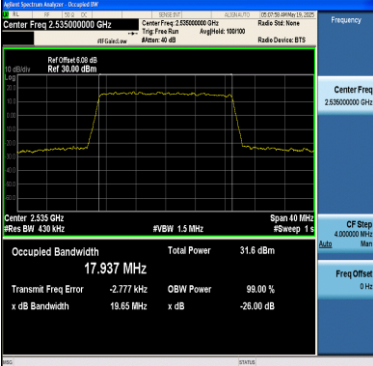
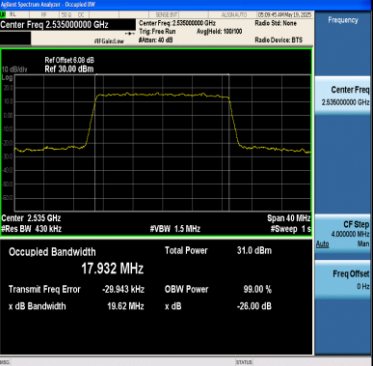
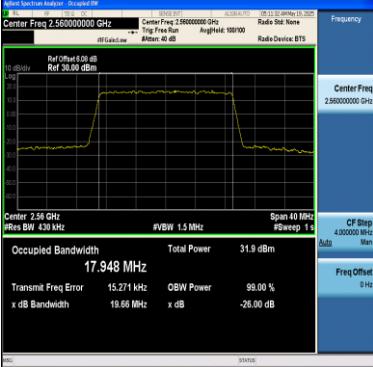
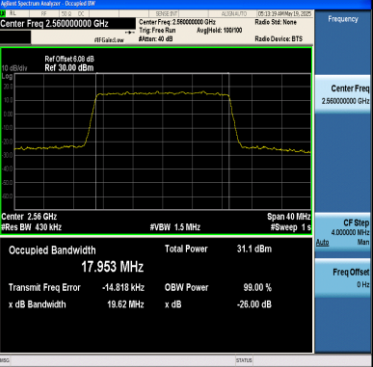
Row 3: Band 7-5MHz-QPSK-21425-25RB#0-PASS

- Left Plot:** Center Freq: 2.567500000 GHz, Span: 10 MHz, Res BW: 110 kHz, PVBW: 330 kHz. Occupied Bandwidth: 4.5076 MHz, Total Power: 31.4 dBm, Transmit Freq Error: 1.386 kHz, OBW Power: 99.00%, x dB Bandwidth: 5.024 MHz, x dB: -26.00 dB.
- Right Plot:** Center Freq: 2.567500000 GHz, Span: 10 MHz, Res BW: 110 kHz, PVBW: 330 kHz. Occupied Bandwidth: 4.5250 MHz, Total Power: 30.7 dBm, Transmit Freq Error: 2.775 kHz, OBW Power: 99.00%, x dB Bandwidth: 5.062 MHz, x dB: -26.00 dB.

Row 4: Band 7-10MHz-QPSK-20800-50RB#0-PASS

- Left Plot:** Center Freq: 2.505000000 GHz, Span: 20 MHz, Res BW: 220 kHz, PVBW: 660 kHz. Occupied Bandwidth: 8.9987 MHz, Total Power: 31.1 dBm, Transmit Freq Error: 9.921 kHz, OBW Power: 99.00%, x dB Bandwidth: 9.946 MHz, x dB: -26.00 dB.
- Right Plot:** Center Freq: 2.505000000 GHz, Span: 20 MHz, Res BW: 220 kHz, PVBW: 660 kHz. Occupied Bandwidth: 9.0224 MHz, Total Power: 30.6 dBm, Transmit Freq Error: -12.236 kHz, OBW Power: 99.00%, x dB Bandwidth: 9.959 MHz, x dB: -26.00 dB.

Band7-10MHz-QPSK-21100-50RB#0-PASS	Band7-10MHz-16QAM-21100-50RB#0-PASS
 Center Freq 2.53500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 8.9961 MHz Total Power 31.5 dBm Transmit Freq Error 8.043 kHz OBW Power 99.00 % x dB Bandwidth 9.956 MHz x dB -26.00 dB	 Center Freq 2.53500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 9.0216 MHz Total Power 30.8 dBm Transmit Freq Error -16.476 kHz OBW Power 99.00 % x dB Bandwidth 9.976 MHz x dB -26.00 dB
Band7-10MHz-QPSK-21400-50RB#0-PASS	Band7-10MHz-16QAM-21400-50RB#0-PASS
 Center Freq 2.56500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 8.9886 MHz Total Power 31.8 dBm Transmit Freq Error 11.859 kHz OBW Power 99.00 % x dB Bandwidth 9.929 MHz x dB -26.00 dB	 Center Freq 2.56500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 9.0149 MHz Total Power 31.0 dBm Transmit Freq Error -10.434 kHz OBW Power 99.00 % x dB Bandwidth 9.945 MHz x dB -26.00 dB
Band7-15MHz-QPSK-20825-75RB#0-PASS	Band7-15MHz-16QAM-20825-75RB#0-PASS
 Center Freq 2.56800000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 13.493 MHz Total Power 31.4 dBm Transmit Freq Error 5.538 kHz OBW Power 99.00 % x dB Bandwidth 14.84 MHz x dB -26.00 dB	 Center Freq 2.56800000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 13.477 MHz Total Power 30.9 dBm Transmit Freq Error 369 Hz OBW Power 99.00 % x dB Bandwidth 14.83 MHz x dB -26.00 dB
Band7-15MHz-QPSK-21100-75RB#0-PASS	Band7-15MHz-16QAM-21100-75RB#0-PASS
 Center Freq 2.53500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 13.472 MHz Total Power 31.6 dBm Transmit Freq Error 614 Hz OBW Power 99.00 % x dB Bandwidth 14.83 MHz x dB -26.00 dB	 Center Freq 2.53500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Occupied Bandwidth 13.470 MHz Total Power 31.0 dBm Transmit Freq Error -5.524 kHz OBW Power 99.00 % x dB Bandwidth 14.84 MHz x dB -26.00 dB

Band7-15MHz-QPSK-21375-75RB#0-PASS  Center Freq 2.56250000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Center 2.563 GHz Span 30 MHz Occupied Bandwidth 13.468 MHz Total Power 32.0 dBm Transmit Freq Error 12.431 kHz OBW Power 99.00 % x dB Bandwidth 14.82 MHz x dB -26.00 dB	Band7-15MHz-16QAM-21375-75RB#0-PASS  Center Freq 2.56250000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Center 2.563 GHz Span 30 MHz Occupied Bandwidth 13.462 MHz Total Power 31.3 dBm Transmit Freq Error 8.520 kHz OBW Power 99.00 % x dB Bandwidth 14.81 MHz x dB -26.00 dB
Band7-20MHz-QPSK-20850-100RB#0-PASS  Center Freq 2.51000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Center 2.51 GHz Span 40 MHz Occupied Bandwidth 17.969 MHz Total Power 31.5 dBm Transmit Freq Error 17.240 kHz OBW Power 99.00 % x dB Bandwidth 19.68 MHz x dB -26.00 dB	Band7-20MHz-16QAM-20850-100RB#0-PASS  Center Freq 2.51000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Center 2.51 GHz Span 40 MHz Occupied Bandwidth 17.969 MHz Total Power 30.8 dBm Transmit Freq Error -13.676 kHz OBW Power 99.00 % x dB Bandwidth 19.64 MHz x dB -26.00 dB
Band7-20MHz-QPSK-21100-100RB#0-PASS  Center Freq 2.53500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Center 2.535 GHz Span 40 MHz Occupied Bandwidth 17.937 MHz Total Power 31.6 dBm Transmit Freq Error -2.777 kHz OBW Power 99.00 % x dB Bandwidth 19.65 MHz x dB -26.00 dB	Band7-20MHz-16QAM-21100-100RB#0-PASS  Center Freq 2.53500000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Center 2.535 GHz Span 40 MHz Occupied Bandwidth 17.932 MHz Total Power 31.0 dBm Transmit Freq Error -29.943 kHz OBW Power 99.00 % x dB Bandwidth 19.62 MHz x dB -26.00 dB
Band7-20MHz-QPSK-21350-100RB#0-PASS  Center Freq 2.56000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Center 2.56 GHz Span 40 MHz Occupied Bandwidth 17.948 MHz Total Power 31.9 dBm Transmit Freq Error 15.271 kHz OBW Power 99.00 % x dB Bandwidth 19.66 MHz x dB -26.00 dB	Band7-20MHz-16QAM-21350-100RB#0-PASS  Center Freq 2.56000000 GHz Ref Offset 0.00 dB Ref 30.00 dBm Center 2.56 GHz Span 40 MHz Occupied Bandwidth 17.953 MHz Total Power 31.1 dBm Transmit Freq Error -14.818 kHz OBW Power 99.00 % x dB Bandwidth 19.62 MHz x dB -26.00 dB