

ANT2:

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.12	500	PASS
	MCH	10.103	500	PASS
	HCH	10.119	500	PASS
802.11g	LCH	16.508	500	PASS
	MCH	16.505	500	PASS
	HCH	16.475	500	PASS
802.11n(HT20)	LCH	17.785	500	PASS
	MCH	17.758	500	PASS
	HCH	17.766	500	PASS
802.11n(HT40)	LCH	36.49	500	PASS
	MCH	36.463	500	PASS
	HCH	36.48	500	PASS
802.11ax(HT20)	LCH	17.758	500	PASS
	MCH	17.75	500	PASS
	HCH	17.742	500	PASS
802.11ax(HT40)	LCH	36.523	500	PASS
	MCH	36.485	500	PASS
	HCH	36.465	500	PASS

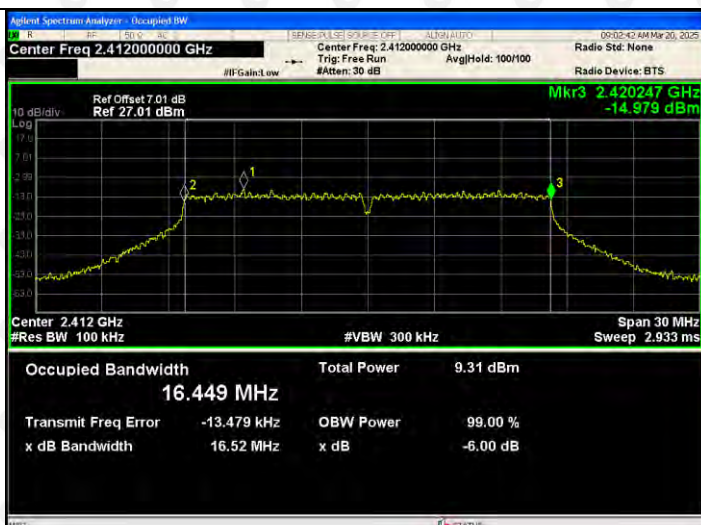
ANT3:

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.108	500	PASS
	MCH	10.123	500	PASS
	HCH	10.095	500	PASS
802.11g	LCH	16.511	500	PASS
	MCH	16.532	500	PASS
	HCH	16.488	500	PASS
802.11n(HT20)	LCH	17.767	500	PASS
	MCH	17.767	500	PASS
	HCH	17.79	500	PASS
802.11n(HT40)	LCH	36.451	500	PASS
	MCH	36.472	500	PASS
	HCH	36.489	500	PASS
802.11ax(HT20)	LCH	17.752	500	PASS
	MCH	17.747	500	PASS
	HCH	17.733	500	PASS
802.11ax(HT40)	LCH	36.531	500	PASS
	MCH	36.478	500	PASS
	HCH	36.415	500	PASS

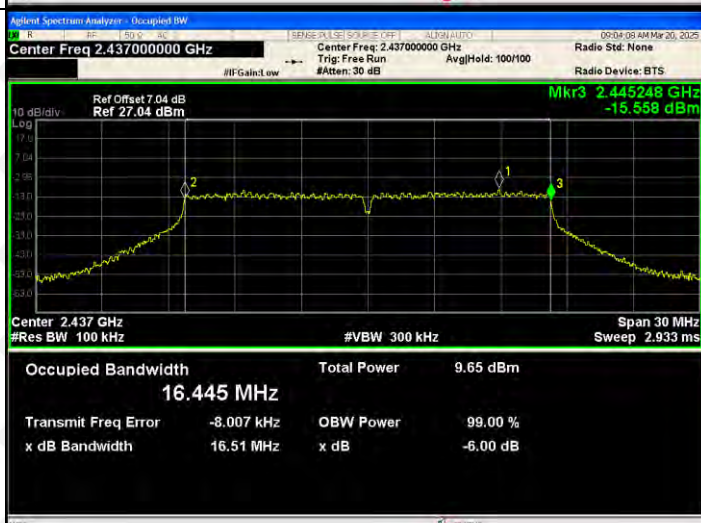
ANT1:
Test Graph:



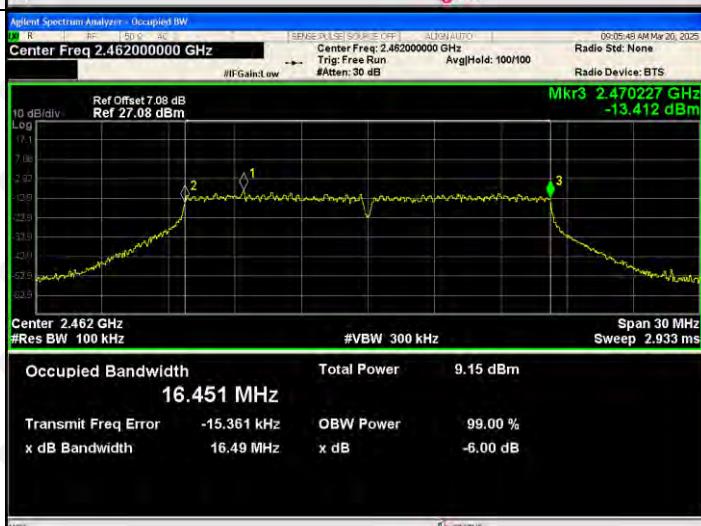
802.11g/LCH

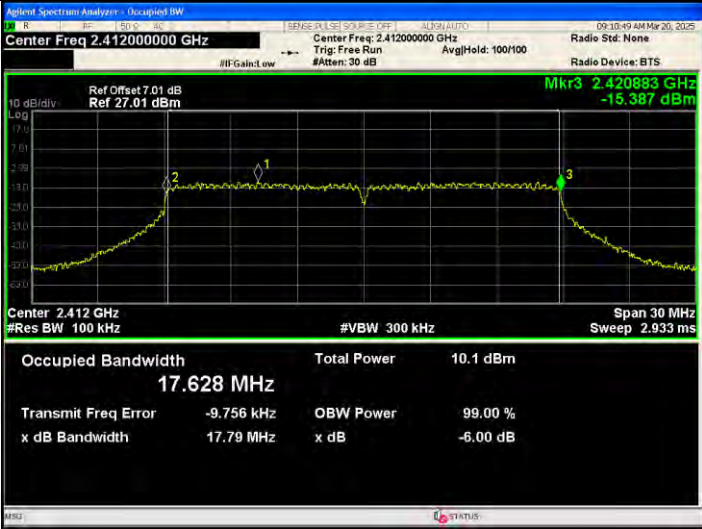
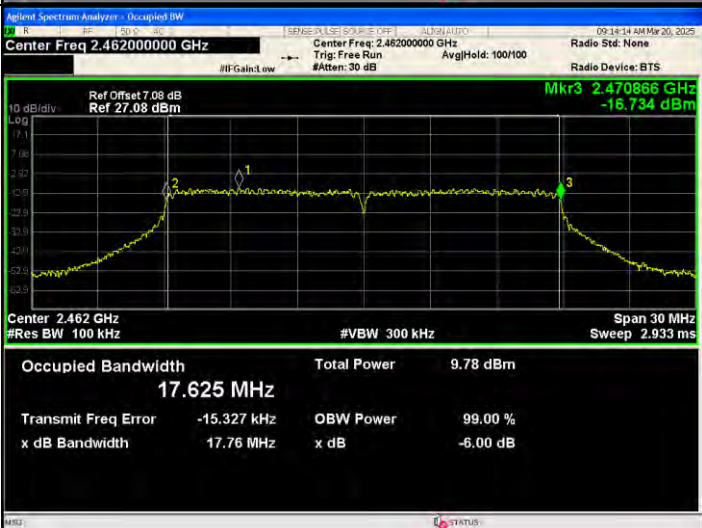


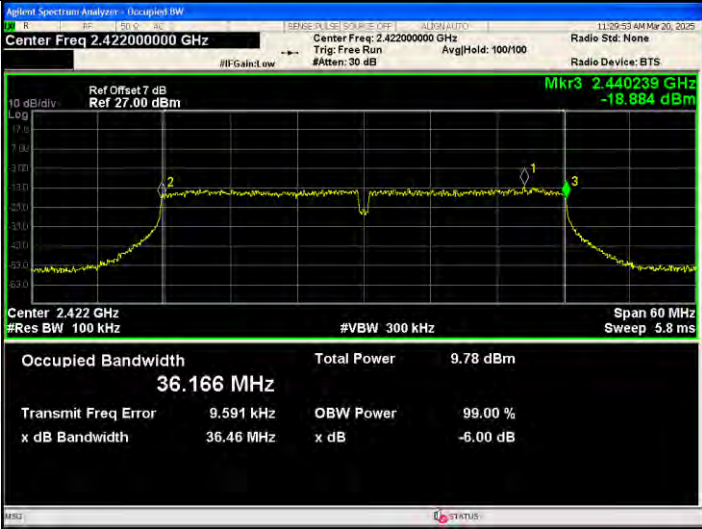
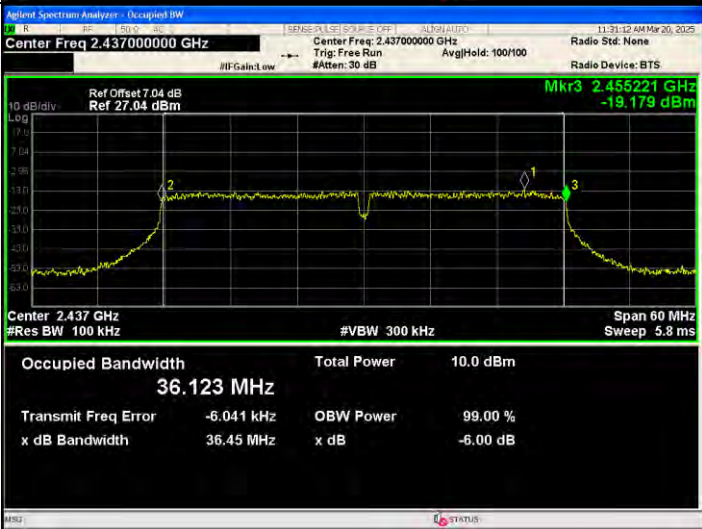
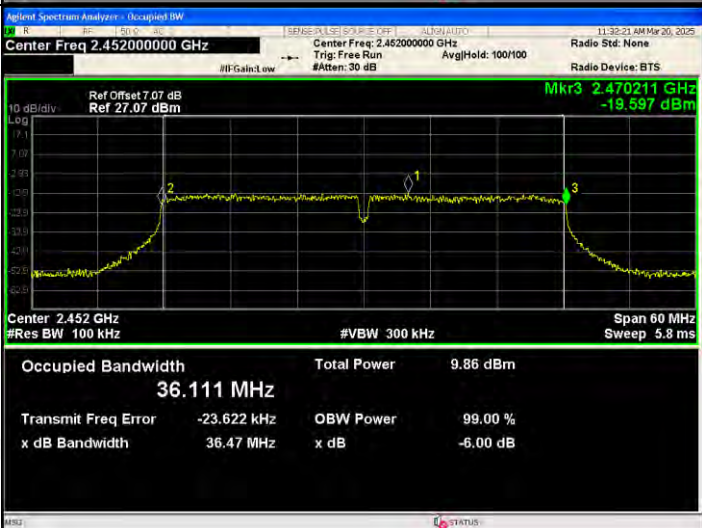
802.11g/MCH

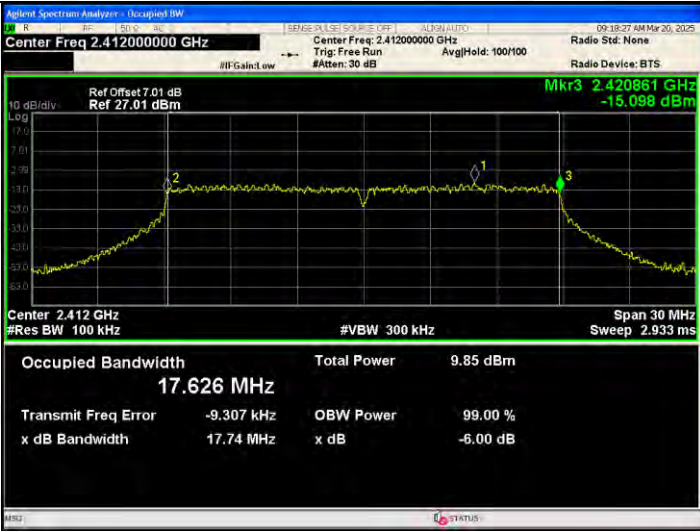
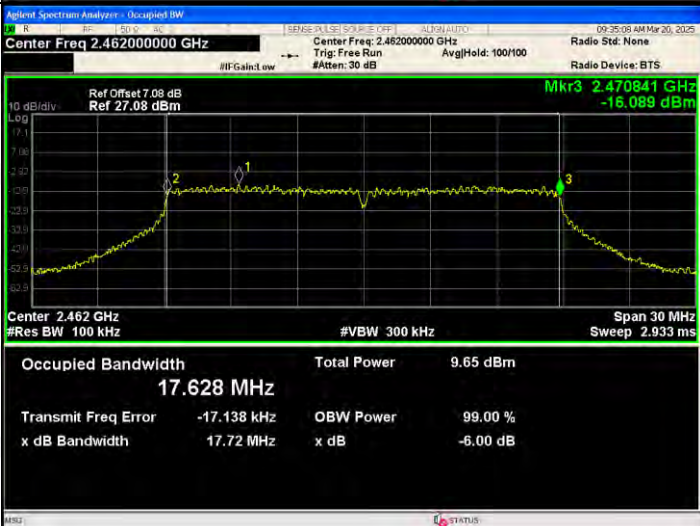


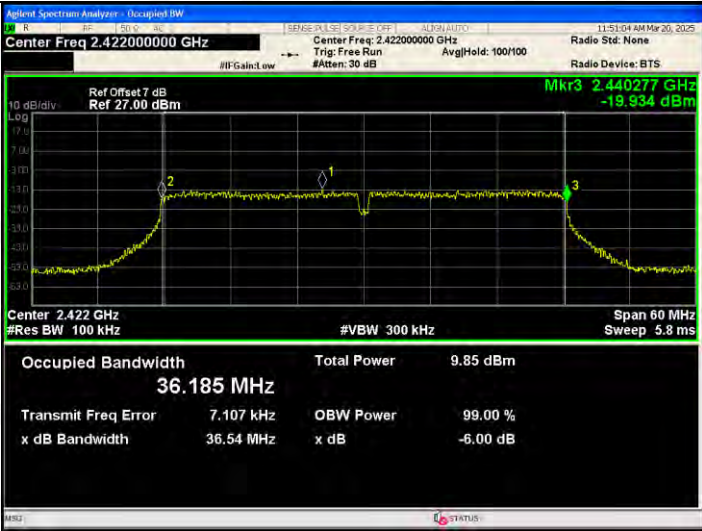
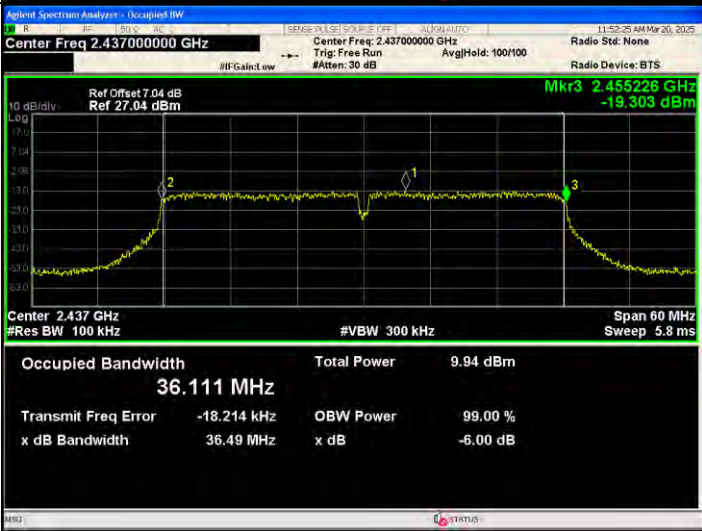
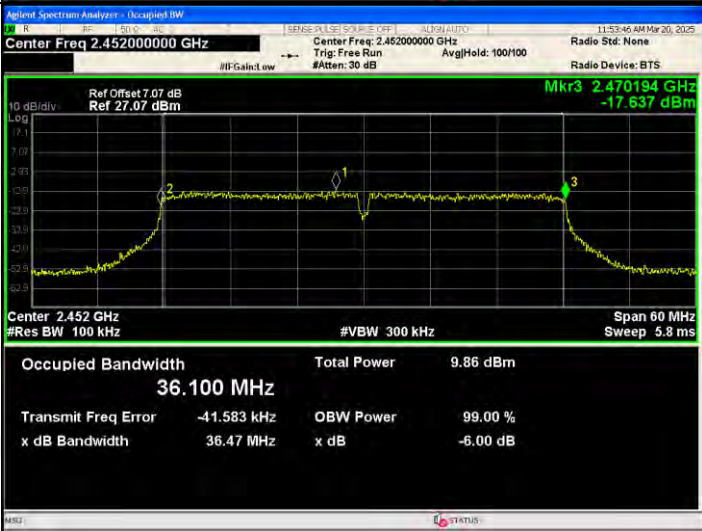
802.11g/HCH



802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 27.01 dBm Occupied Bandwidth 17.628 MHz Total Power 10.1 dBm Transmit Freq Error -9.756 kHz OBW Power 99.00 % x dB Bandwidth 17.79 MHz x dB -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Occupied Bandwidth 17.623 MHz Total Power 10.2 dBm Transmit Freq Error -13.562 kHz OBW Power 99.00 % x dB Bandwidth 17.74 MHz x dB -6.00 dB
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 27.08 dBm Occupied Bandwidth 17.625 MHz Total Power 9.78 dBm Transmit Freq Error -15.327 kHz OBW Power 99.00 % x dB Bandwidth 17.76 MHz x dB -6.00 dB

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 7 dB Ref 27.00 dBm Occupied Bandwidth 36.166 MHz Total Power 9.78 dBm Transmit Freq Error 9.591 kHz OBW Power 99.00 % x dB Bandwidth 36.46 MHz x dB -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Occupied Bandwidth 36.123 MHz Total Power 10.0 dBm Transmit Freq Error -6.041 kHz OBW Power 99.00 % x dB Bandwidth 36.45 MHz x dB -6.00 dB
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 27.07 dBm Occupied Bandwidth 36.111 MHz Total Power 9.86 dBm Transmit Freq Error -23.622 kHz OBW Power 99.00 % x dB Bandwidth 36.47 MHz x dB -6.00 dB

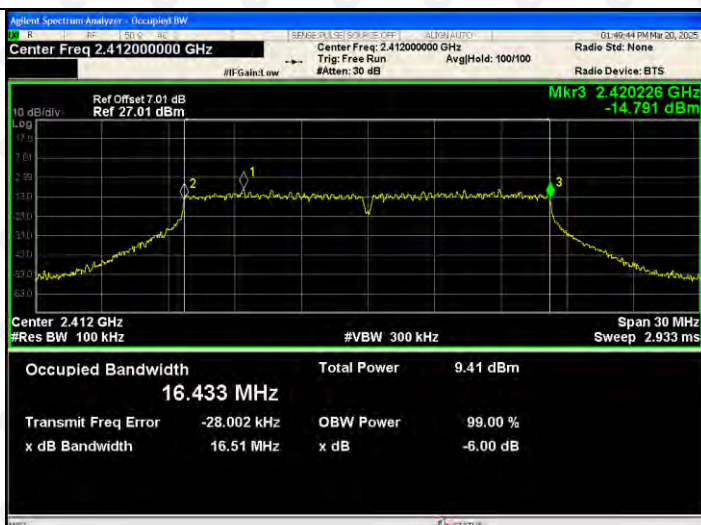
802.11ax(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 27.01 dBm Occupied Bandwidth 17.626 MHz Total Power 9.85 dBm Transmit Freq Error -9.307 kHz OBW Power 99.00 % x dB Bandwidth 17.74 MHz x dB -6.00 dB
802.11ax(HT20)/M CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Occupied Bandwidth 17.623 MHz Total Power 10.2 dBm Transmit Freq Error -3.216 kHz OBW Power 99.00 % x dB Bandwidth 17.73 MHz x dB -6.00 dB
802.11ax(HT20)/H CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 27.08 dBm Occupied Bandwidth 17.628 MHz Total Power 9.65 dBm Transmit Freq Error -17.138 kHz OBW Power 99.00 % x dB Bandwidth 17.72 MHz x dB -6.00 dB

802.11ax(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 7 dB Ref 27.00 dBm Occupied Bandwidth 36.185 MHz Total Power 9.85 dBm Transmit Freq Error 7.107 kHz OBW Power 99.00 % x dB Bandwidth 36.54 MHz x dB -6.00 dB
802.11ax(HT40)/M CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Occupied Bandwidth 36.111 MHz Total Power 9.94 dBm Transmit Freq Error -18.214 kHz OBW Power 99.00 % x dB Bandwidth 36.49 MHz x dB -6.00 dB
802.11ax(HT40)/H CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 27.07 dBm Occupied Bandwidth 36.100 MHz Total Power 9.86 dBm Transmit Freq Error -41.583 kHz OBW Power 99.00 % x dB Bandwidth 36.47 MHz x dB -6.00 dB

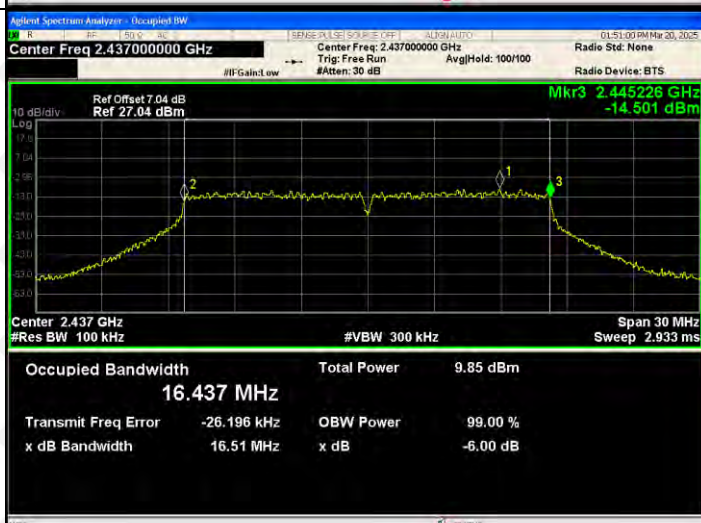
ANT2:
Test Graph:



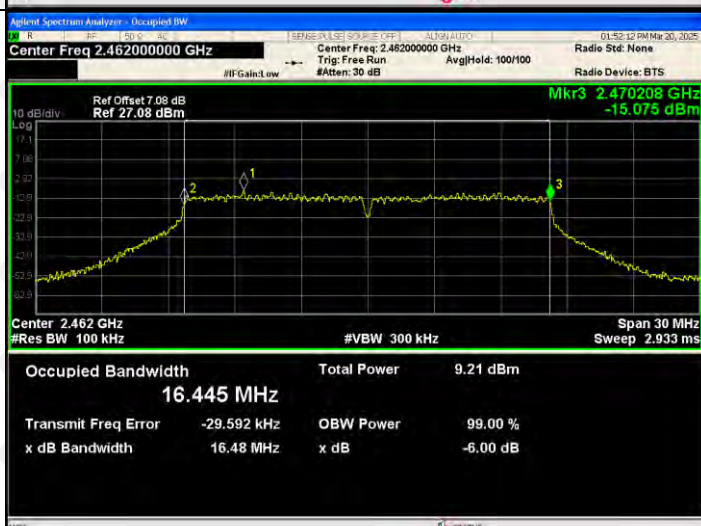
802.11g/LCH

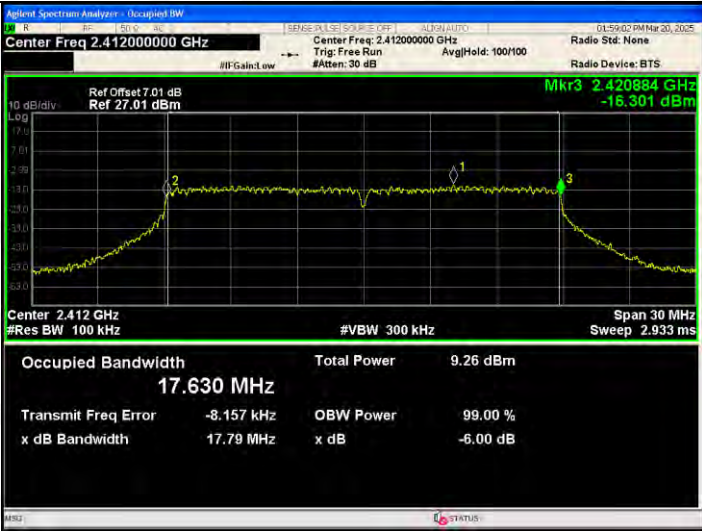
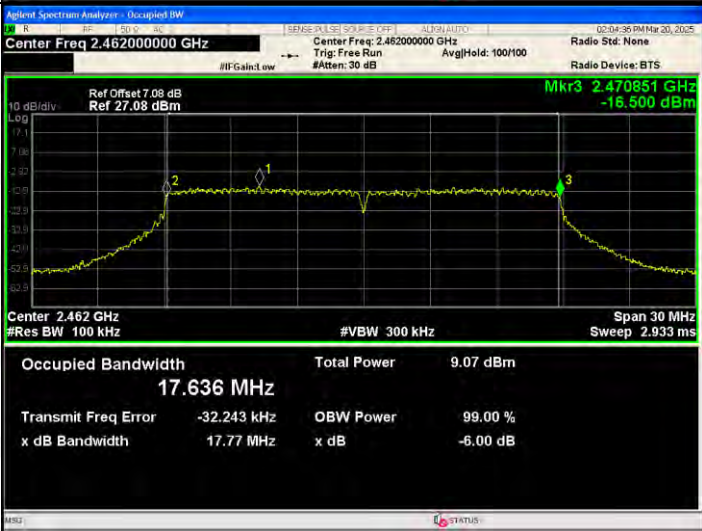


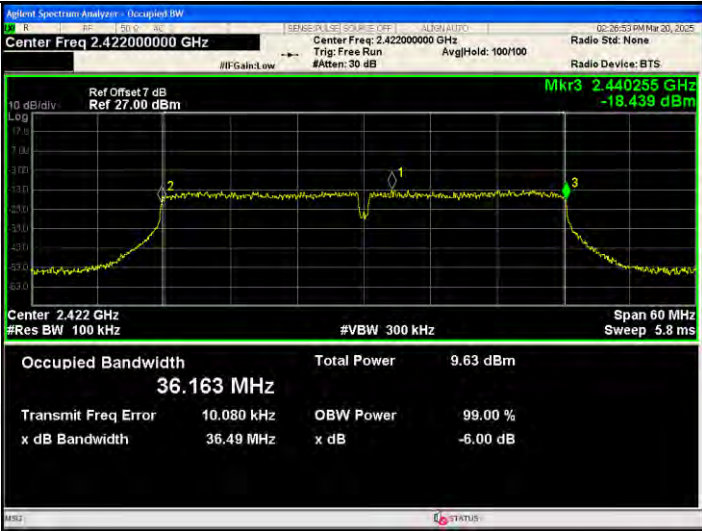
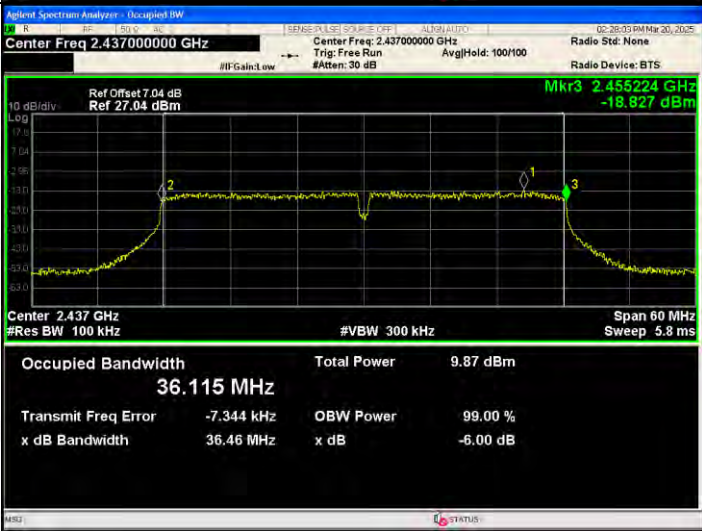
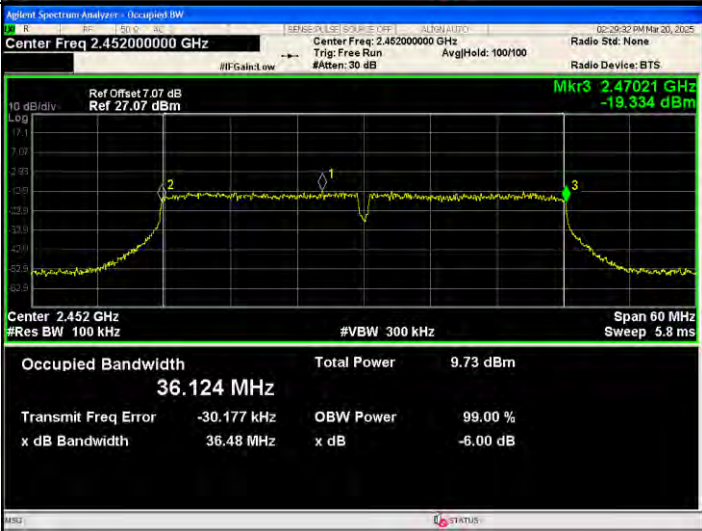
802.11g/MCH

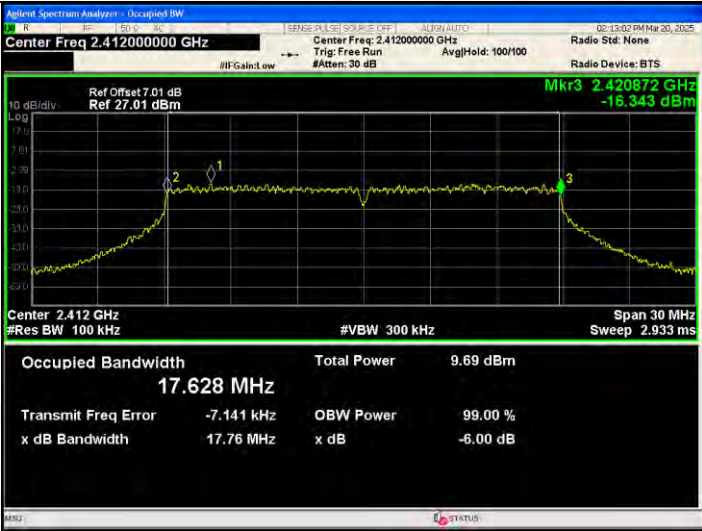
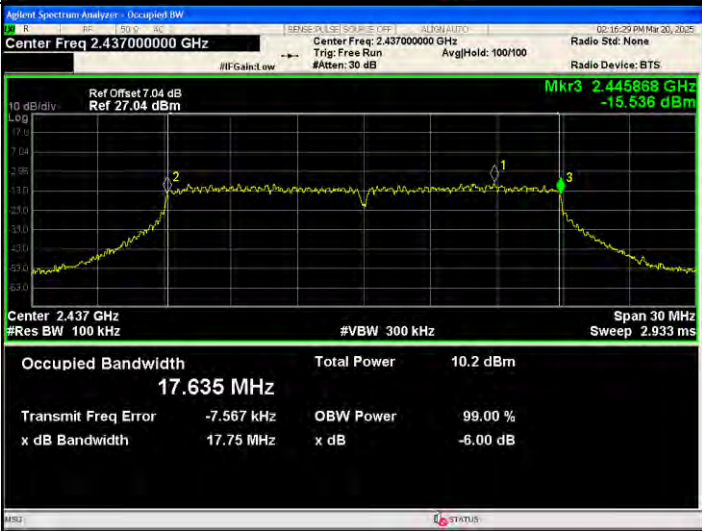
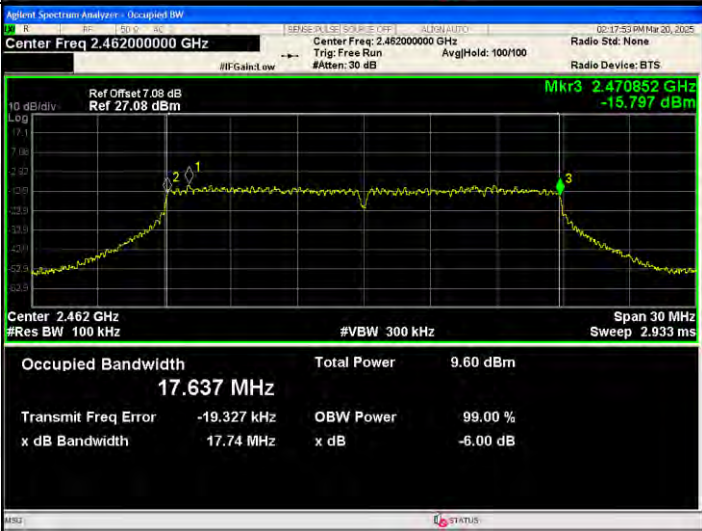


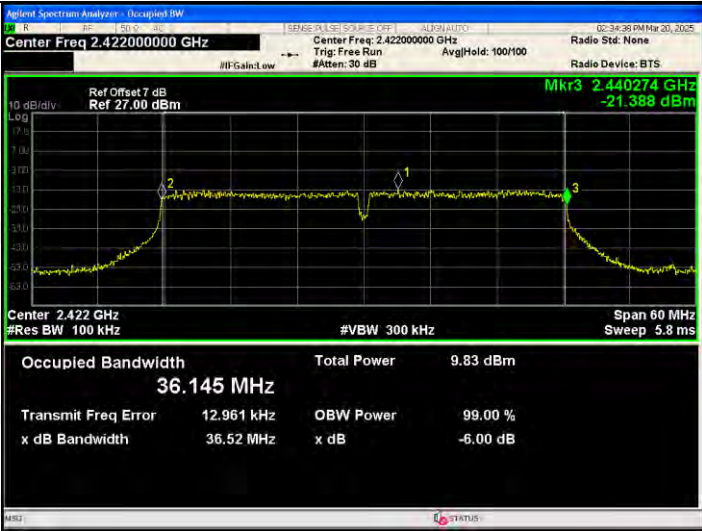
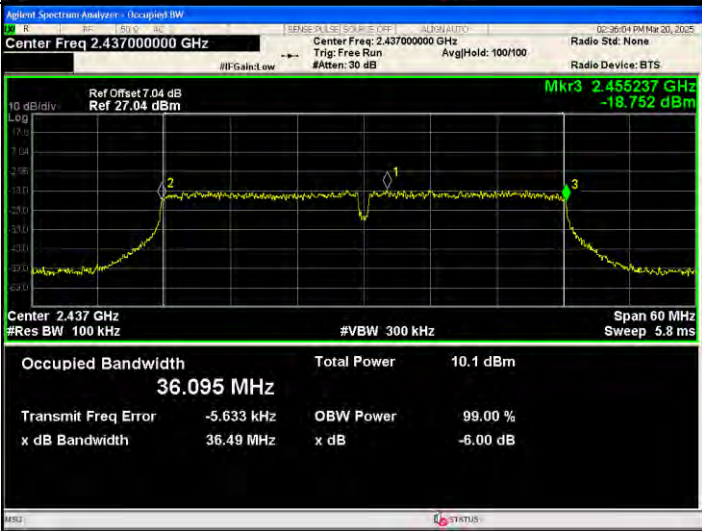
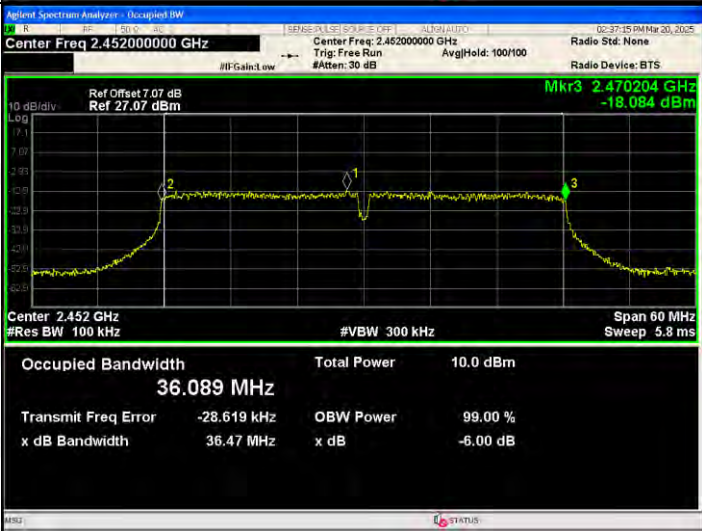
802.11g/HCH



802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 27.01 dBm Mkr3 2.420884 GHz -16.301 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.630 MHz Total Power 9.26 dBm Transmit Freq Error -8.157 kHz OBW Power 99.00 % x dB Bandwidth 17.79 MHz x dB -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Mkr3 2.445868 GHz -17.961 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.619 MHz Total Power 9.65 dBm Transmit Freq Error -11.044 kHz OBW Power 99.00 % x dB Bandwidth 17.76 MHz x dB -6.00 dB
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 27.08 dBm Mkr3 2.470851 GHz -16.500 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.636 MHz Total Power 9.07 dBm Transmit Freq Error -32.243 kHz OBW Power 99.00 % x dB Bandwidth 17.77 MHz x dB -6.00 dB

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 7 dB Ref 27.00 dBm Occupied Bandwidth 36.163 MHz Total Power 9.63 dBm Transmit Freq Error 10.080 kHz OBW Power 99.00 % x dB Bandwidth 36.49 MHz x dB -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Occupied Bandwidth 36.115 MHz Total Power 9.87 dBm Transmit Freq Error -7.344 kHz OBW Power 99.00 % x dB Bandwidth 36.46 MHz x dB -6.00 dB
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 27.07 dBm Occupied Bandwidth 36.124 MHz Total Power 9.73 dBm Transmit Freq Error -30.177 kHz OBW Power 99.00 % x dB Bandwidth 36.48 MHz x dB -6.00 dB

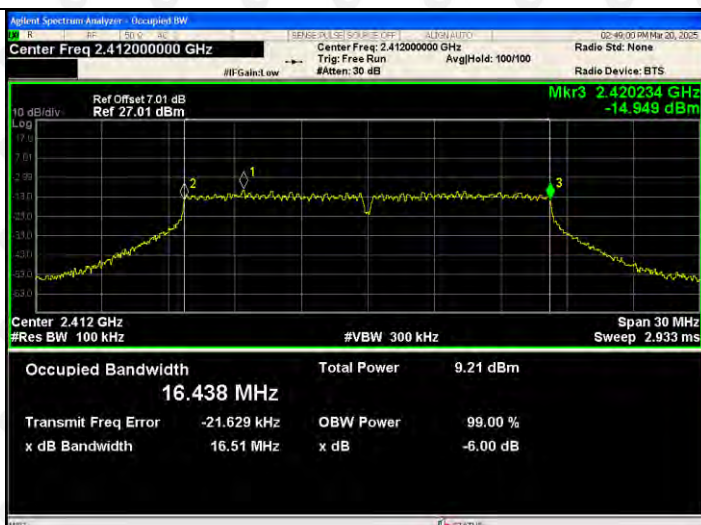
802.11ax(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset: 7.01 dB Ref 27.01 dBm Mkr3 2.420872 GHz -16.343 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.628 MHz Total Power 9.69 dBm Transmit Freq Error -7.141 kHz OBW Power 99.00 % x dB Bandwidth 17.76 MHz x dB -6.00 dB
802.11ax(HT20)/M CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset: 7.04 dB Ref 27.04 dBm Mkr3 2.445868 GHz -15.536 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.635 MHz Total Power 10.2 dBm Transmit Freq Error -7.567 kHz OBW Power 99.00 % x dB Bandwidth 17.75 MHz x dB -6.00 dB
802.11ax(HT20)/H CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset: 7.08 dB Ref 27.08 dBm Mkr3 2.470852 GHz -15.797 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.637 MHz Total Power 9.60 dBm Transmit Freq Error -19.327 kHz OBW Power 99.00 % x dB Bandwidth 17.74 MHz x dB -6.00 dB

802.11ax(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 7 dB Ref 27.00 dBm Mkr3 2.440274 GHz -21.388 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.145 MHz Total Power 9.83 dBm Transmit Freq Error 12.961 kHz OBW Power 99.00 % x dB Bandwidth 36.52 MHz x dB -6.00 dB
802.11ax(HT40)/M CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Mkr3 2.455237 GHz -18.752 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.095 MHz Total Power 10.1 dBm Transmit Freq Error -5.633 kHz OBW Power 99.00 % x dB Bandwidth 36.49 MHz x dB -6.00 dB
802.11ax(HT40)/H CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 27.07 dBm Mkr3 2.470204 GHz -18.084 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.089 MHz Total Power 10.0 dBm Transmit Freq Error -28.619 kHz OBW Power 99.00 % x dB Bandwidth 36.47 MHz x dB -6.00 dB

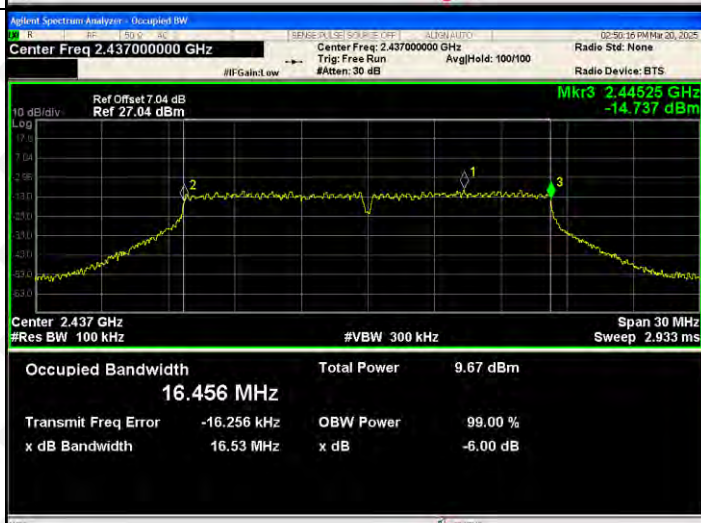
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Test Graph:



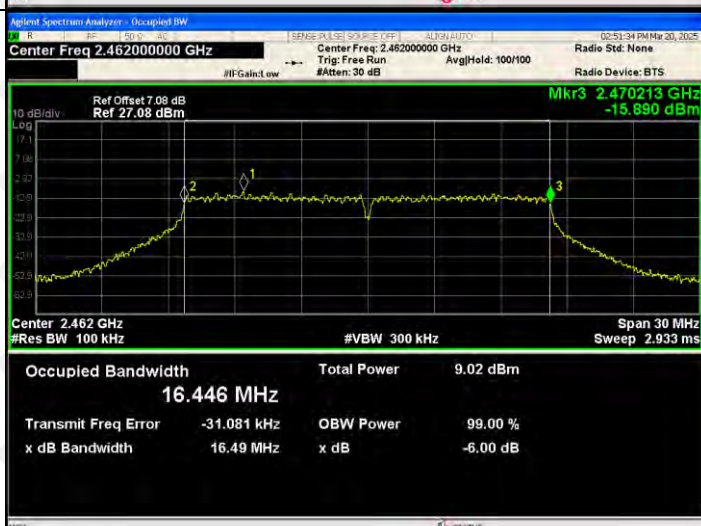
802.11g/LCH

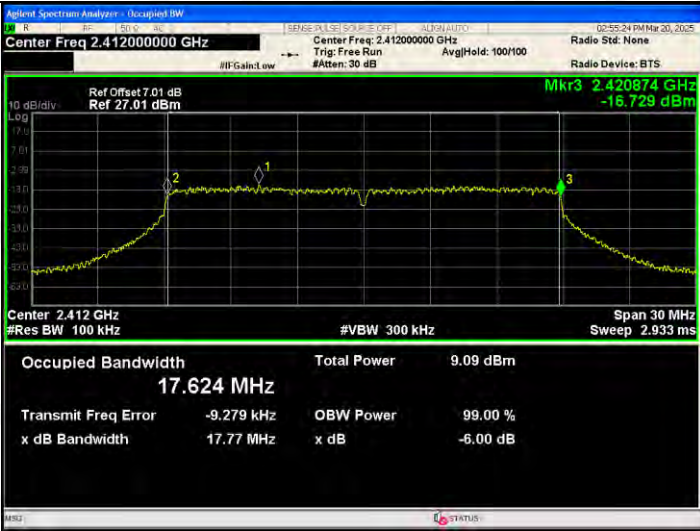


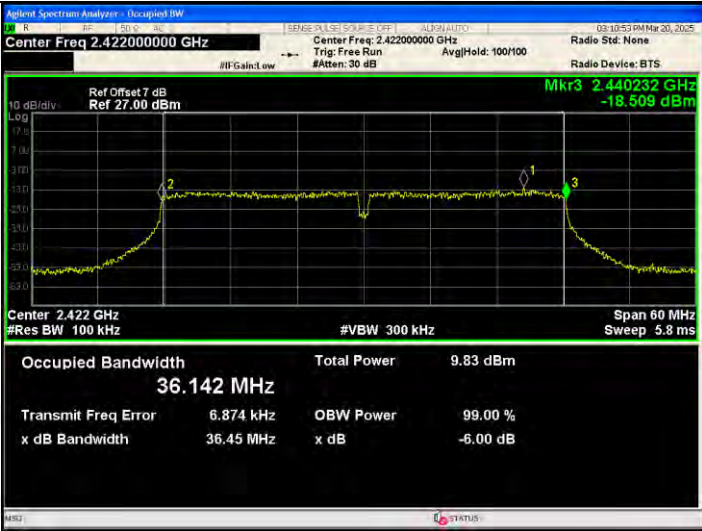
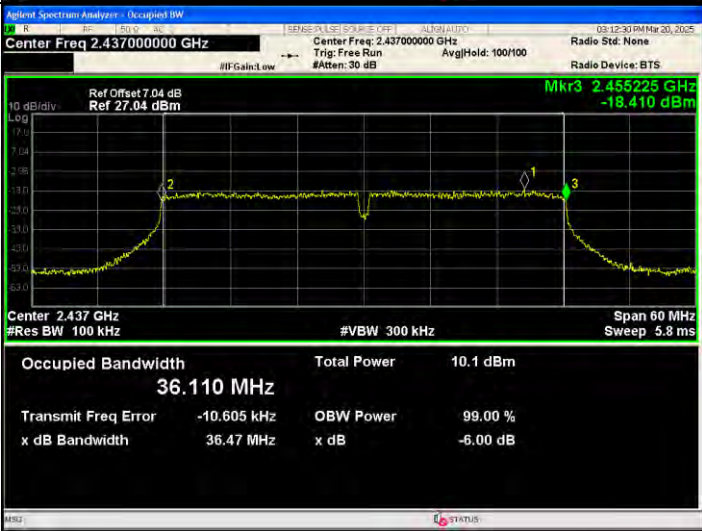
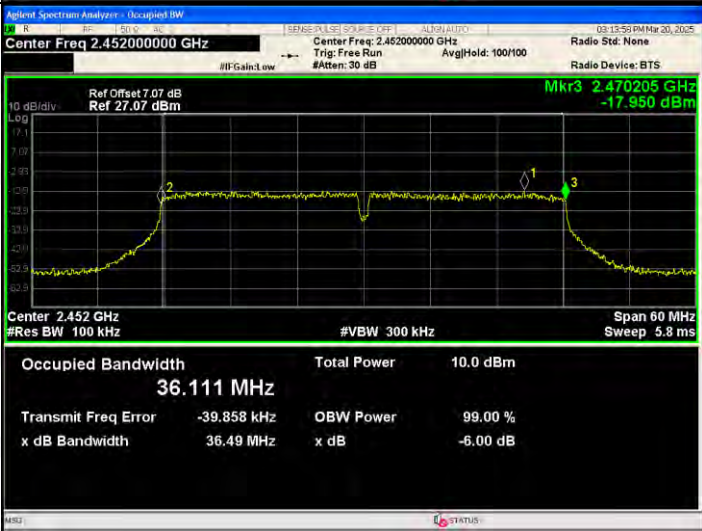
802.11g/MCH

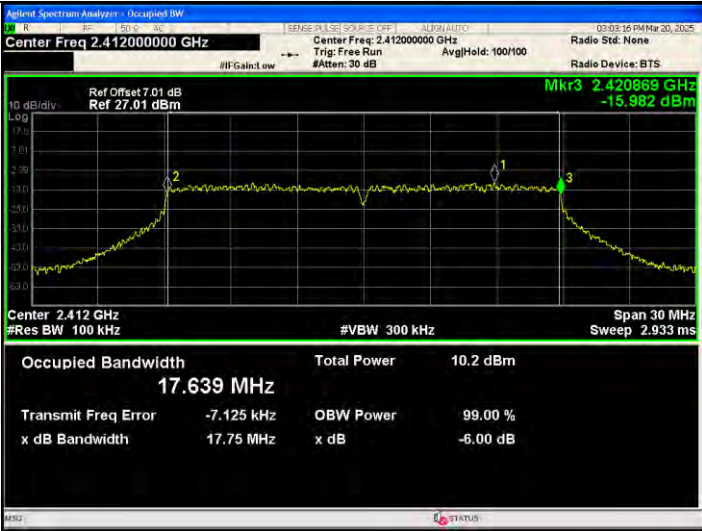
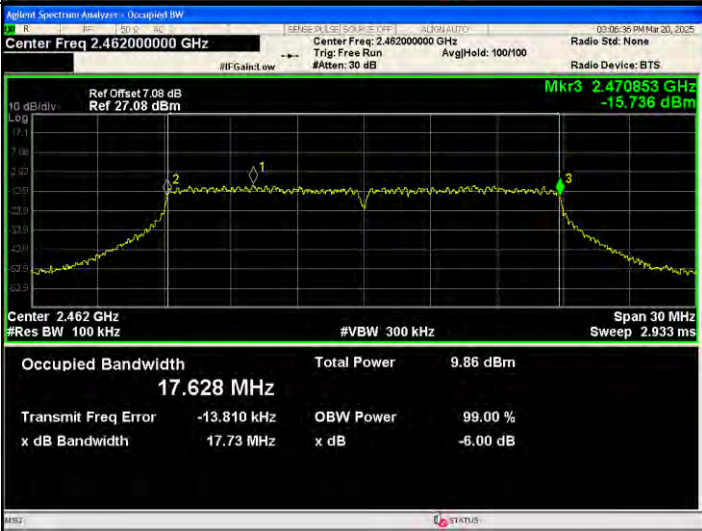


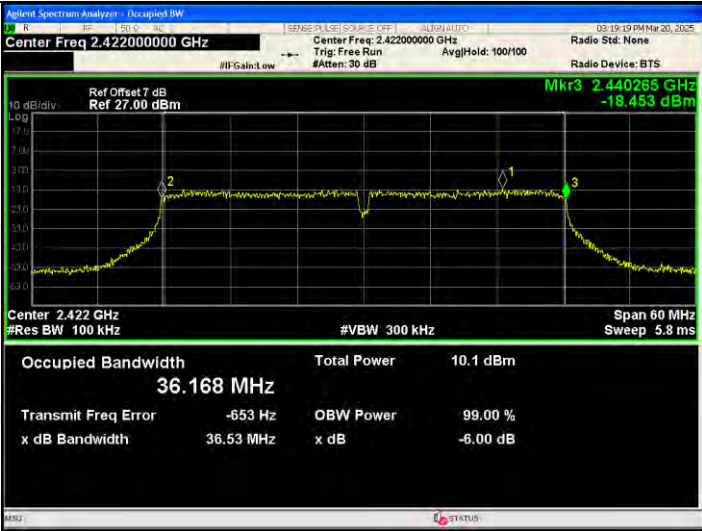
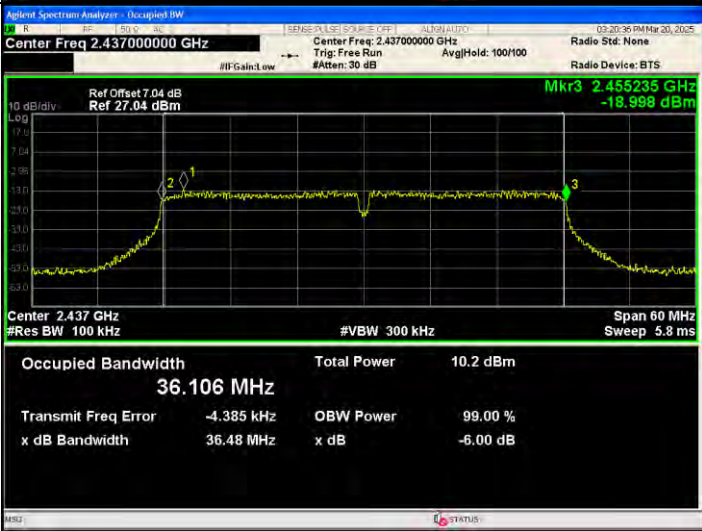
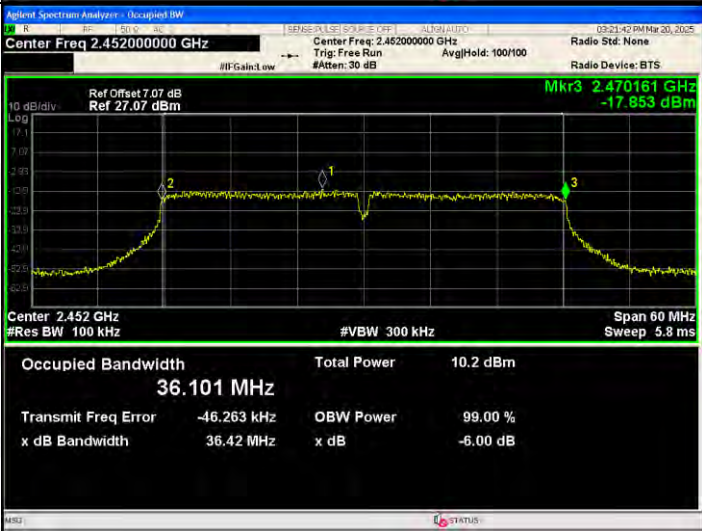
802.11g/HCH



802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset: 7.01 dB Ref 27.01 dBm Mkr3 2.420874 GHz -16.729 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.624 MHz Total Power 9.09 dBm Transmit Freq Error -9.279 kHz OBW Power 99.00 % x dB Bandwidth 17.77 MHz x dB -6.00 dB
802.11n(HT20)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset: 7.04 dB Ref 27.04 dBm Mkr3 2.445878 GHz -16.248 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.626 MHz Total Power 9.61 dBm Transmit Freq Error -5.174 kHz OBW Power 99.00 % x dB Bandwidth 17.77 MHz x dB -6.00 dB
802.11n(HT20)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset: 7.08 dB Ref 27.08 dBm Mkr3 2.470869 GHz -16.805 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.645 MHz Total Power 9.01 dBm Transmit Freq Error -26.074 kHz OBW Power 99.00 % x dB Bandwidth 17.79 MHz x dB -6.00 dB

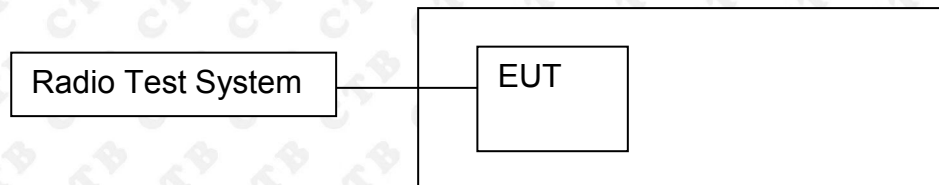
802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 7 dB Ref 27.00 dBm Mkr3 2.440232 GHz -18.509 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.142 MHz Total Power 9.83 dBm Transmit Freq Error 6.874 kHz OBW Power 99.00 % x dB Bandwidth 36.45 MHz x dB -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Mkr3 2.455225 GHz -18.410 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.110 MHz Total Power 10.1 dBm Transmit Freq Error -10.605 kHz OBW Power 99.00 % x dB Bandwidth 36.47 MHz x dB -6.00 dB
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 27.07 dBm Mkr3 2.470205 GHz -17.950 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 5.8 ms Occupied Bandwidth 36.111 MHz Total Power 10.0 dBm Transmit Freq Error -39.858 kHz OBW Power 99.00 % x dB Bandwidth 36.49 MHz x dB -6.00 dB

802.11ax(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 27.01 dBm Mkr3 2.420869 GHz -15.982 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.639 MHz Total Power 10.2 dBm Transmit Freq Error -7.125 kHz OBW Power 99.00 % x dB Bandwidth 17.75 MHz x dB -6.00 dB
802.11ax(HT20)/M CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Mkr3 2.445873 GHz -14.662 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.636 MHz Total Power 10.7 dBm Transmit Freq Error -345 Hz OBW Power 99.00 % x dB Bandwidth 17.75 MHz x dB -6.00 dB
802.11ax(HT20)/H CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 27.08 dBm Mkr3 2.470853 GHz -15.736 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 30 MHz Sweep 2.933 ms Occupied Bandwidth 17.628 MHz Total Power 9.86 dBm Transmit Freq Error -13.810 kHz OBW Power 99.00 % x dB Bandwidth 17.73 MHz x dB -6.00 dB

802.11ax(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 7 dB Ref 27.00 dBm Occupied Bandwidth 36.168 MHz Total Power 10.1 dBm Transmit Freq Error -653 Hz OBW Power 99.00 % x dB Bandwidth 36.53 MHz x dB -6.00 dB
802.11ax(HT40)/M CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Occupied Bandwidth 36.106 MHz Total Power 10.2 dBm Transmit Freq Error -4.385 kHz OBW Power 99.00 % x dB Bandwidth 36.48 MHz x dB -6.00 dB
802.11ax(HT40)/H CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 7.07 dB Ref 27.07 dBm Occupied Bandwidth 36.101 MHz Total Power 10.2 dBm Transmit Freq Error -46.263 kHz OBW Power 99.00 % x dB Bandwidth 36.42 MHz x dB -6.00 dB

11. POWER SPECTRAL DENSITY

11.1 Block Diagram Of Test Setup



11.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3kHz)	2400-2483.5	PASS

11.3 Test procedure

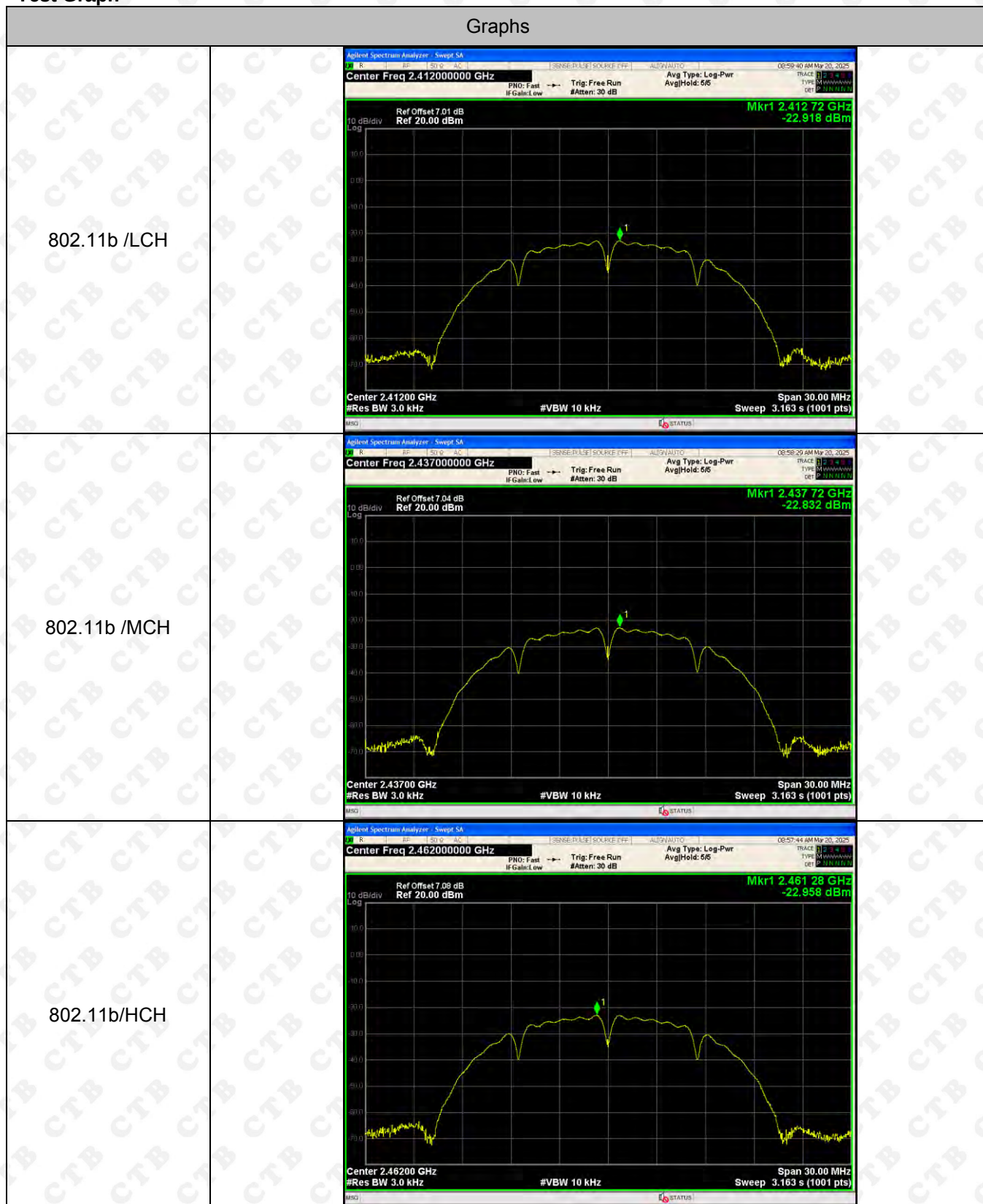
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = Peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

11.4 Test Result

Mode	Channel.	Power Spectral Density [dBm /3kHz] ANT 1	Power Spectral Density [dBm /3kHz] ANT 2	Power Spectral Density [dBm /3kHz] Total	Limit(dBm)
802.11b	LCH	-22.918	-22.792	/	8
	MCH	-22.832	-22.325	/	8
	HCH	-22.958	-22.947	/	8
802.11g	LCH	-23.65	-23.58	/	8
	MCH	-22.936	-22.851	/	8
	HCH	-23.797	-23.56	/	8
802.11n(H T20)	LCH	-23.76	-24.836	-21.254	8
	MCH	-23.517	-24.074	-20.776	8
	HCH	-23.43	-24.717	-21.016	8
802.11n(H T40)	LCH	-25.582	-24.129	-21.785	8
	MCH	-25.776	-25.457	-22.603	8
	HCH	-25.018	-25.589	-22.284	8
802.11ax(HT20)	LCH	-22.223	-21.651	-18.917	8
	MCH	-21.417	-21.918	-18.650	8
	HCH	-21.841	-22.081	-18.949	8
802.11ax(HT40)	LCH	-26.009	-25.802	-22.894	8
	MCH	-25.663	-24.33	-21.935	8
	HCH	-25.432	-25.415	-22.413	8

Mode	Channel.	Power Spectral Density [dBm /3kHz] ANT 3	Limit(dBm)
802.11b	LCH	-23.071	8
	MCH	-22.603	8
	HCH	-23.248	8
802.11g	LCH	-23.655	8
	MCH	-23.044	8
	HCH	-23.964	8
802.11n(HT20)	LCH	-23.067	8
	MCH	-23.678	8
	HCH	-24.042	8
802.11n(HT40)	LCH	-25.373	8
	MCH	-25.59	8
	HCH	-25.244	8
802.11ax(HT20)	LCH	-22.004	8
	MCH	-20.764	8
	HCH	-21.82	8
802.11ax(HT40)	LCH	-25.598	8
	MCH	-25.007	8
	HCH	-26.133	8

ANT1:
Test Graph



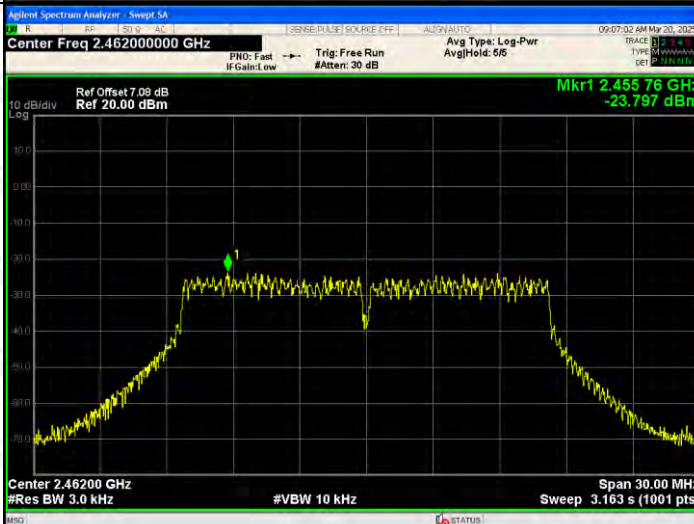
802.11g/LCH

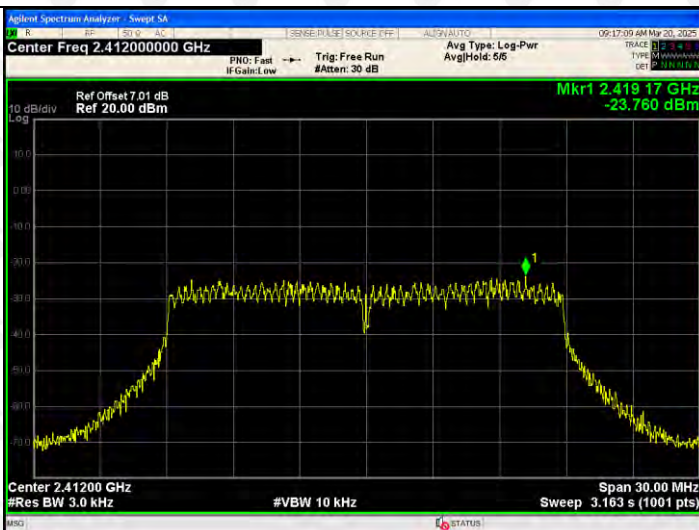
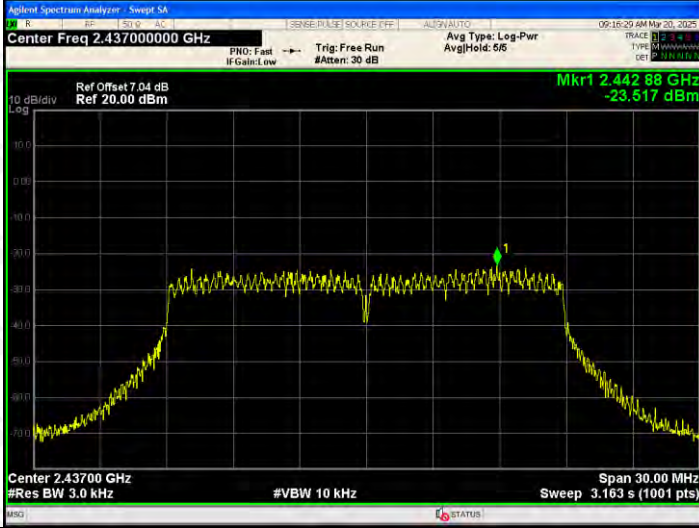


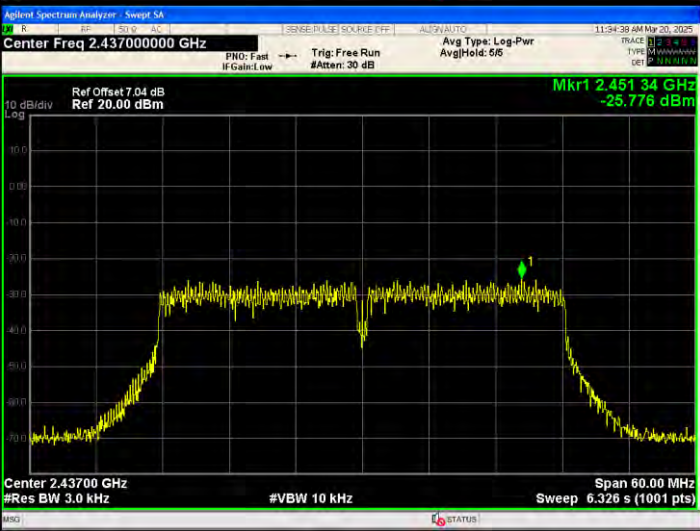
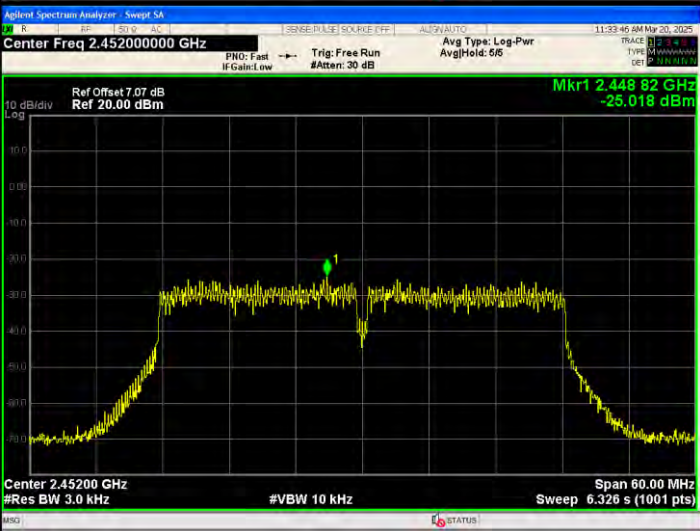
802.11g/MCH



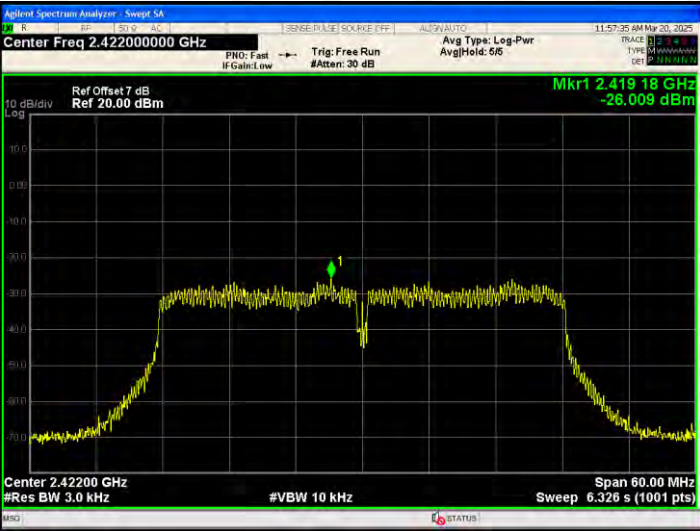
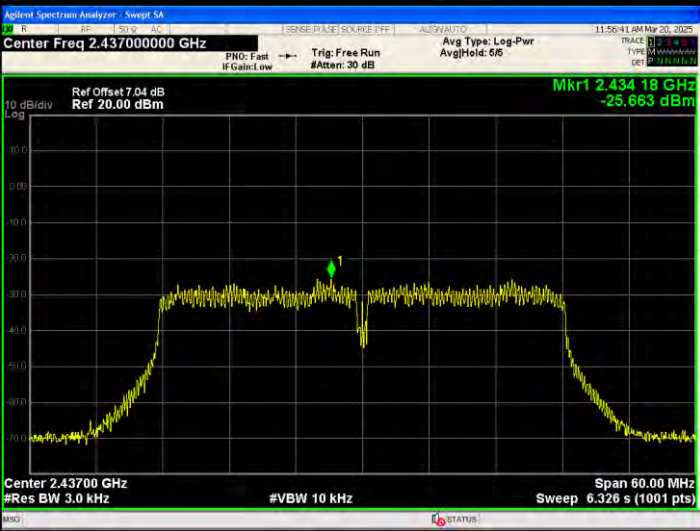
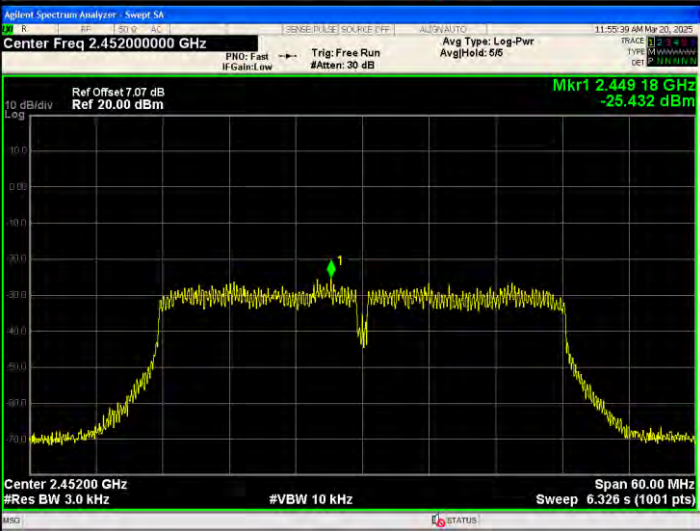
802.11g/HCH



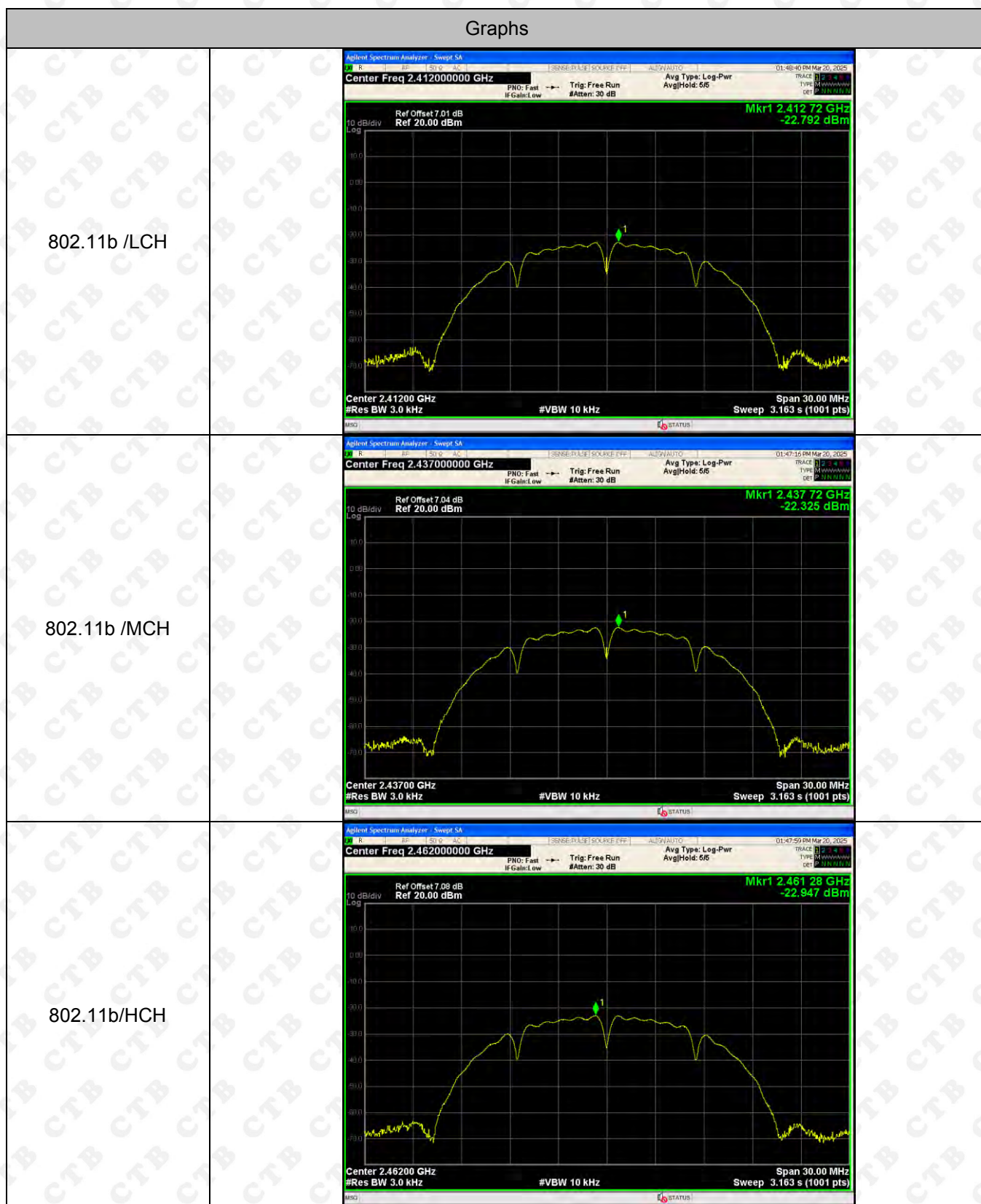
802.11n(HT20)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.41917 GHz -23.760 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.44288 GHz -23.517 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 20.00 dBm Mkr1 2.45540 GHz -23.430 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

802.11n(HT40)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 7.0 dB Ref 20.00 dBm Mkr1 2.43760 GHz -25.582 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.45134 GHz -25.776 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 20.00 dBm Mkr1 2.44882 GHz -25.018 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

802.11ax(HT20)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.417 28 GHz -22.223 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11ax(HT20)/MC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.442 64 GHz -21.417 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11ax(HT20)/HC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 7.09 dB Ref 20.00 dBm Mkr1 2.467 64 GHz -21.841 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

802.11ax(HT40)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 7.0 dB Ref 20.00 dBm Mkr1 2.419 18 GHz -26.009 dBm Span 60.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 6.326 s (1001 pts)
802.11ax(HT40)/MC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.434 18 GHz -25.663 dBm Span 60.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 6.326 s (1001 pts)
802.11ax(HT40)/HC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 20.00 dBm Mkr1 2.449 18 GHz -25.432 dBm Span 60.00 MHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 6.326 s (1001 pts)

ANT 2:
Test Graph



802.11g/LCH

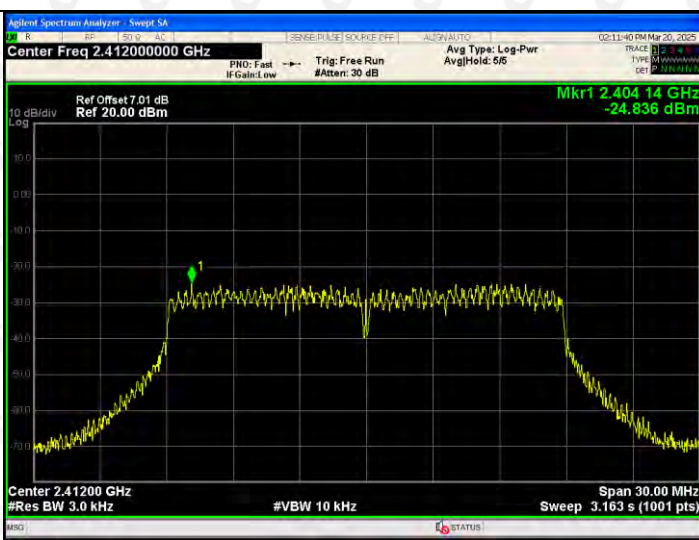


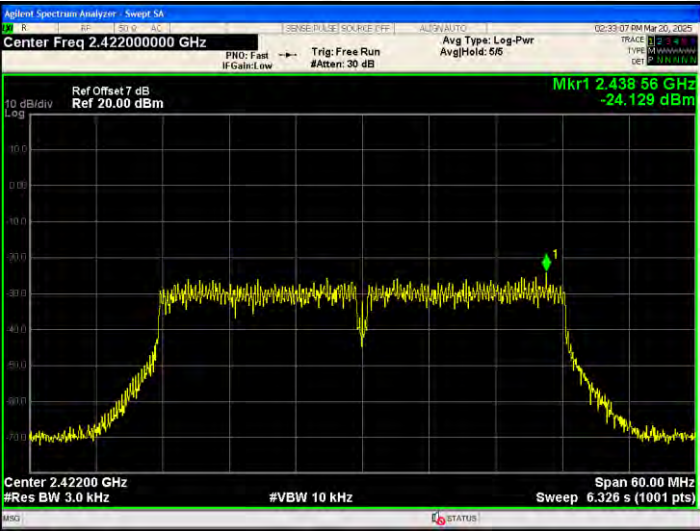
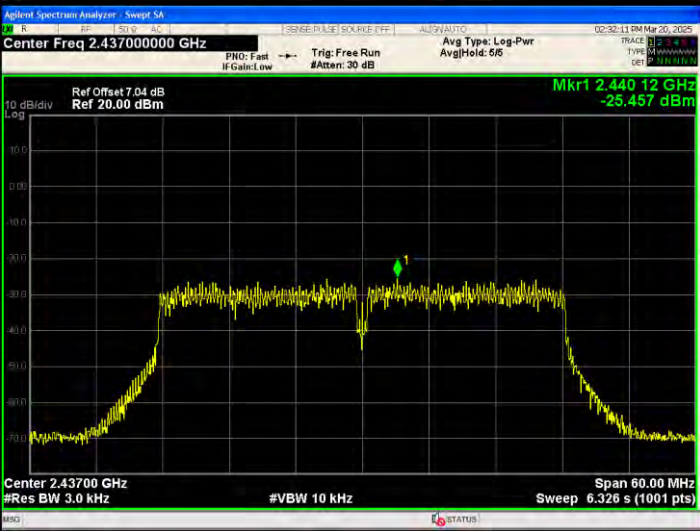
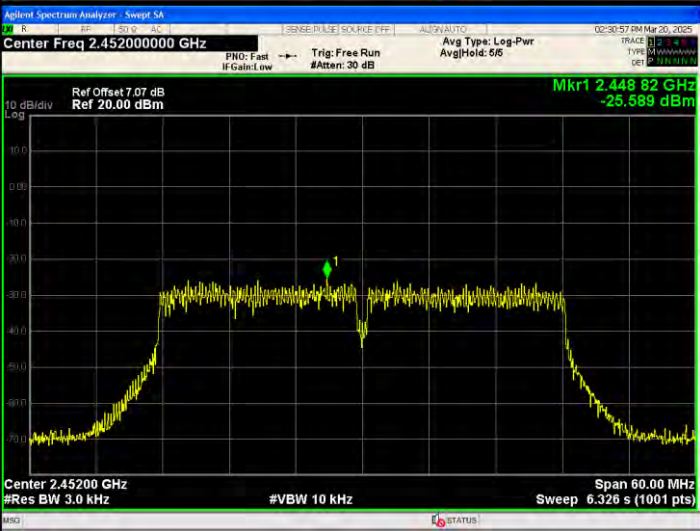
802.11g/MCH



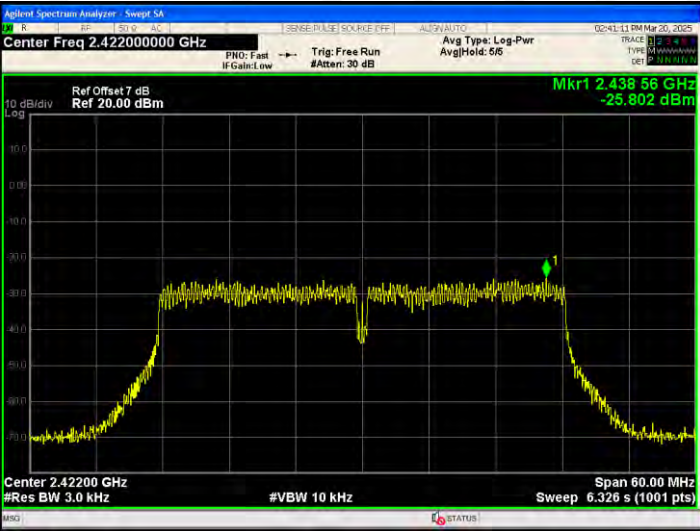
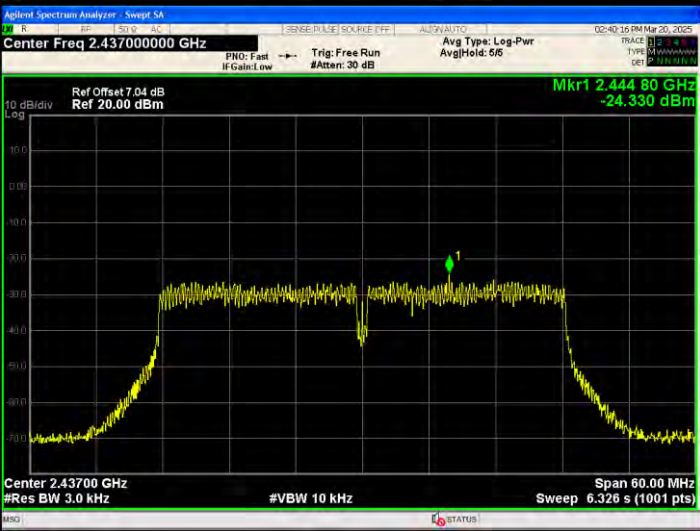
802.11g/HCH



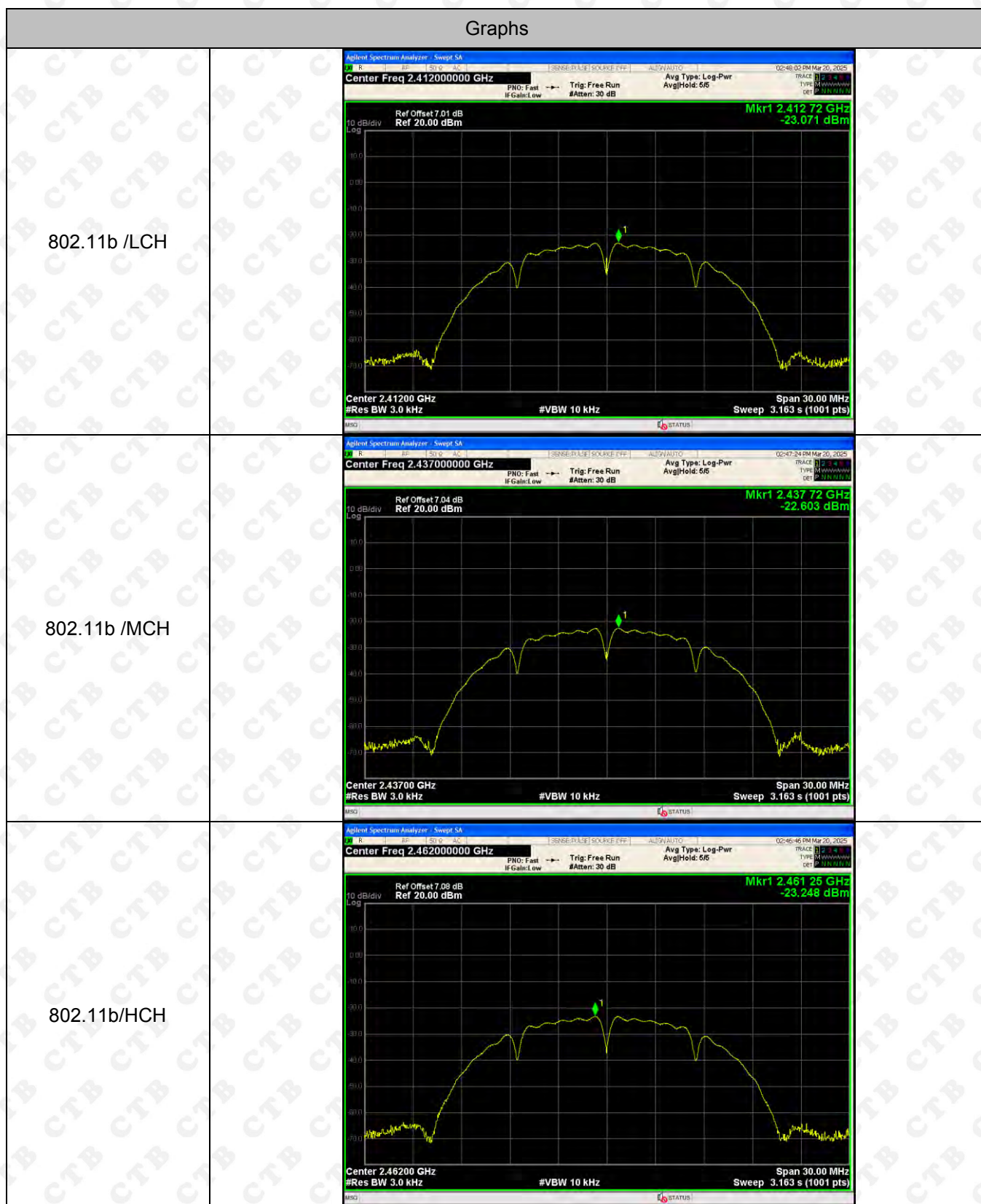
802.11n(HT20)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.404 14 GHz -24.836 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.442 88 GHz -24.074 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 7.09 dB Ref 20.00 dBm Mkr1 2.467 88 GHz -24.717 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

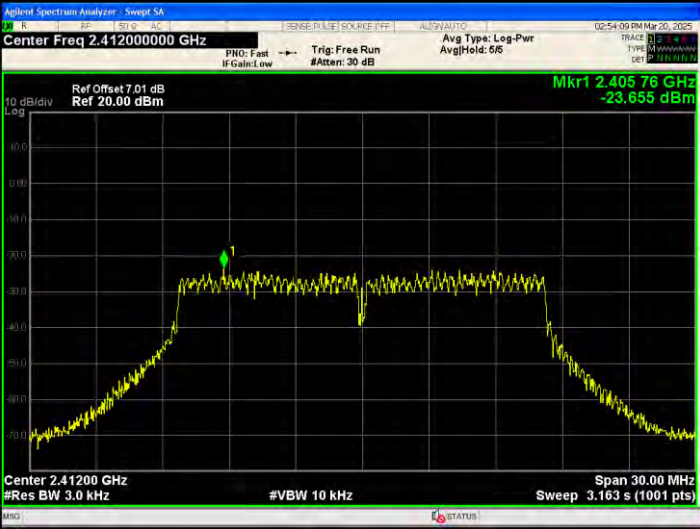
802.11n(HT40)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 7.0 dB Ref 20.00 dBm Mkr1 2.438 56 GHz -24.129 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.440 12 GHz -25.457 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 20.00 dBm Mkr1 2.448 82 GHz -25.589 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

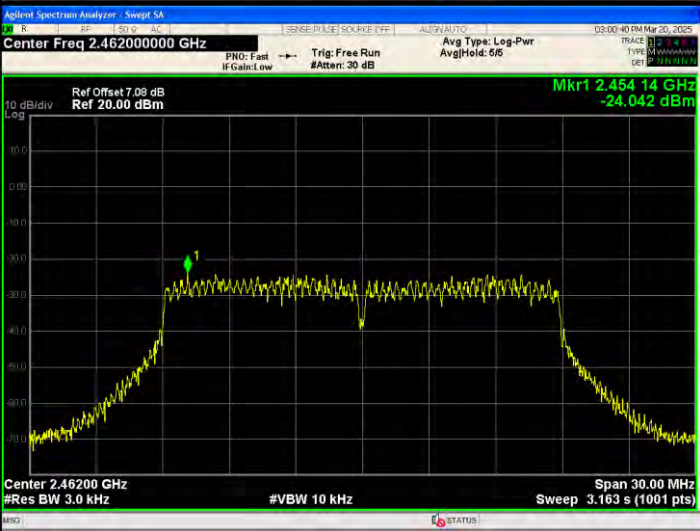
802.11ax(HT20)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) Mkr1 2.41764 GHz -21.651 dBm
802.11ax(HT20)/MC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) Mkr1 2.44264 GHz -21.918 dBm
802.11ax(HT20)/HC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) Mkr1 2.46764 GHz -22.081 dBm

802.11ax(HT40)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 7.0 dB Ref 20.00 dBm Mkr1 2.438 56 GHz -25.802 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11ax(HT40)/MC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.444 80 GHz -24.330 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11ax(HT40)/HC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 20.00 dBm Mkr1 2.438 86 GHz -25.415 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

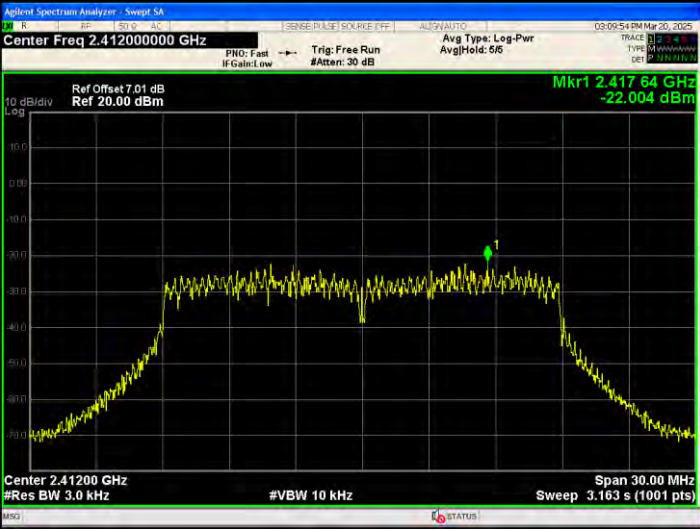
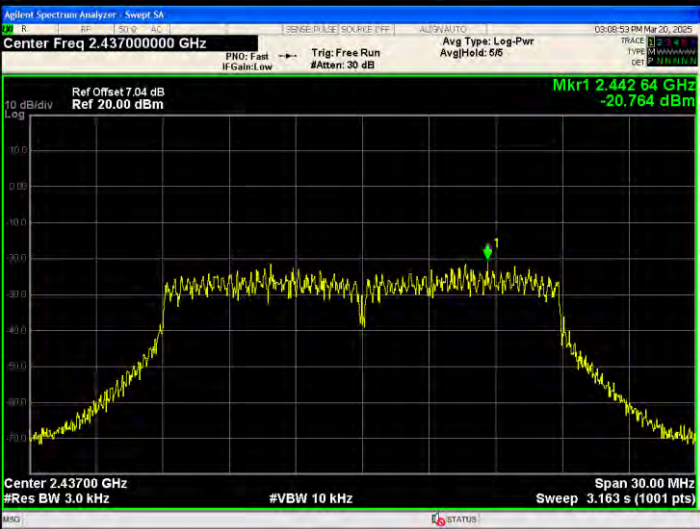
ANT 3:
Test Graph

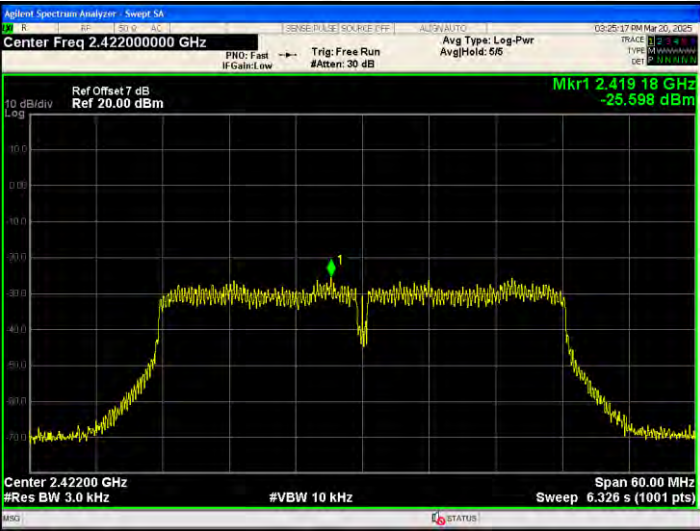
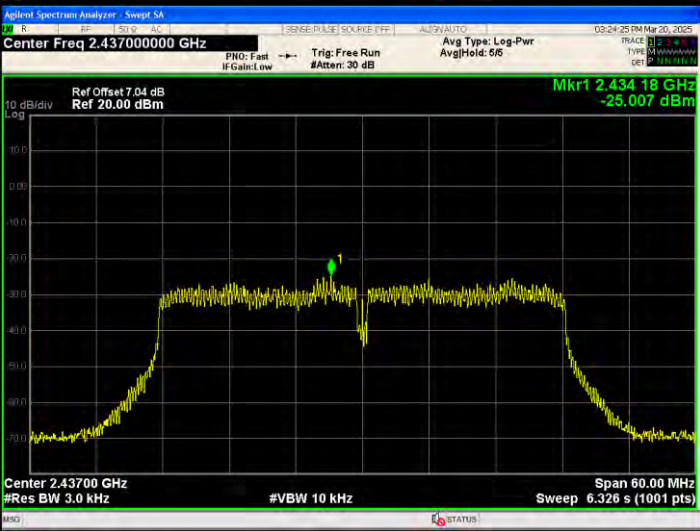
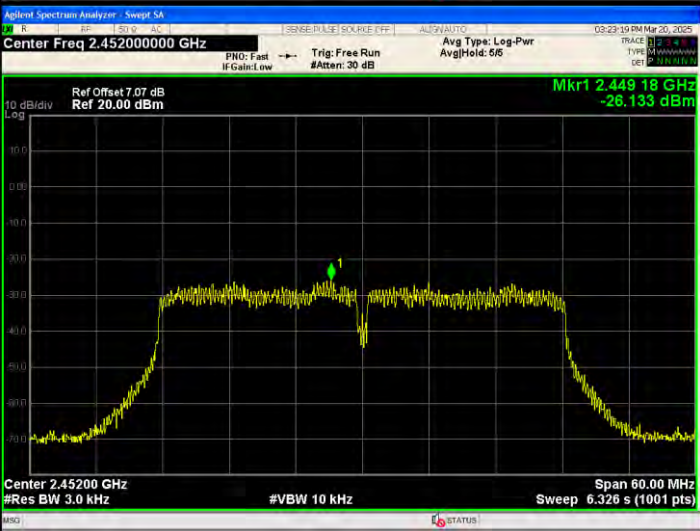


802.11g/LCH	
802.11g/MCH	
802.11g/HCH	

802.11n(HT20)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.41917 GHz -23.067 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.44264 GHz -23.678 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11n(HT20)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 7.09 dB Ref 20.00 dBm Mkr1 2.45414 GHz -24.042 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

802.11n(HT40)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 7.0 dB Ref 20.00 dBm Mkr1 2.43760 GHz -25.373 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.45134 GHz -25.590 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11n(HT40)/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 20.00 dBm Mkr1 2.44882 GHz -25.244 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

802.11ax(HT20)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.417 64 GHz -22.004 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11ax(HT20)/MC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.442 64 GHz -20.764 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11ax(HT20)/HC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 7.09 dB Ref 20.00 dBm Mkr1 2.467 64 GHz -21.820 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)

802.11ax(HT40)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 7.0 dB Ref 20.00 dBm Mkr1 2.419 18 GHz -25.598 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11ax(HT40)/MC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.434 18 GHz -25.007 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)
802.11ax(HT40)/HC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.45200000 GHz Ref Offset 7.07 dB Ref 20.00 dBm Mkr1 2.449 18 GHz -26.133 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

12. ANTENNA REQUIREMENT

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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

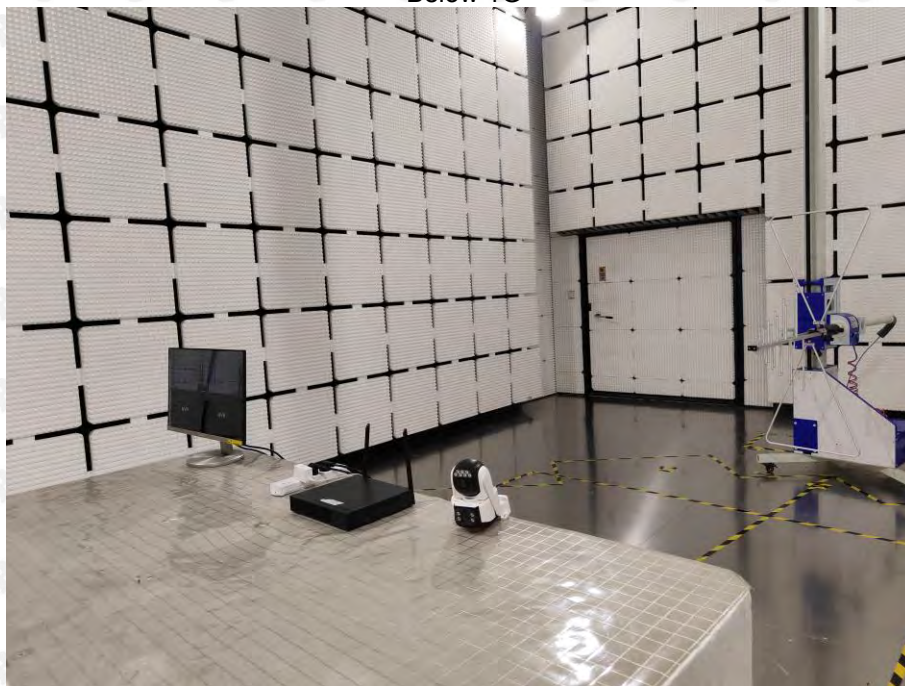
EUT Antenna:

The antenna is ANT1& ANT2: External antenna, ANT3: FPC antenna and no consideration of replacement. The best case gain of the antenna is Ant1: 2.92dBi, Ant2: 2.80dBi, Ant3: 4.00dBi.

13. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

Below 1G



Above 1G



Conducted Emission



※※※※※ END OF REPORT ※※※※※