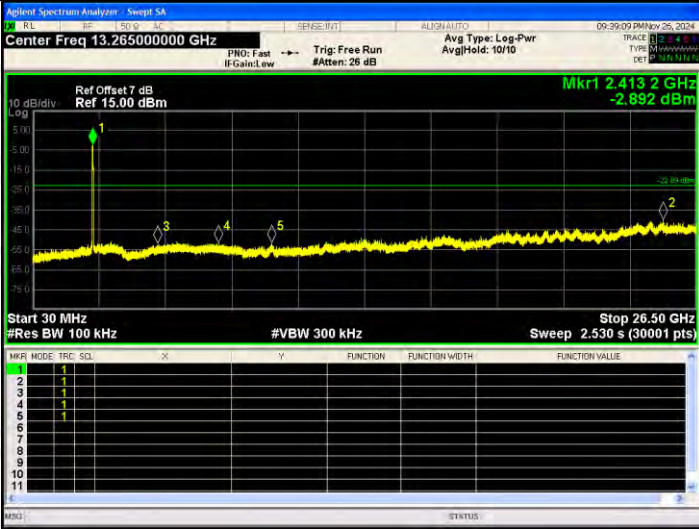
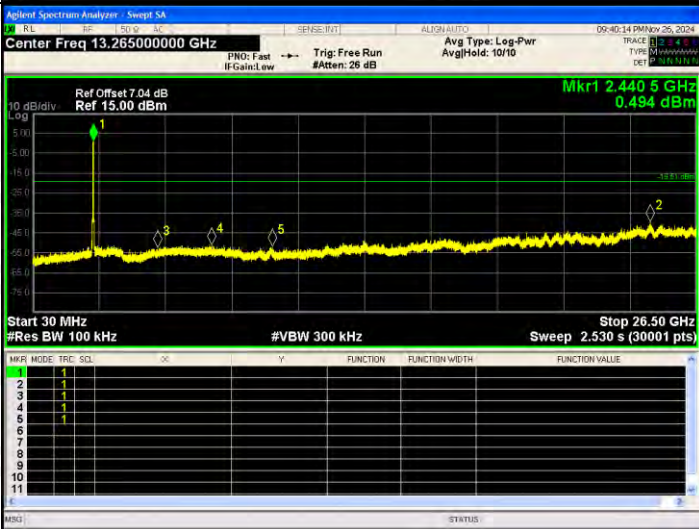
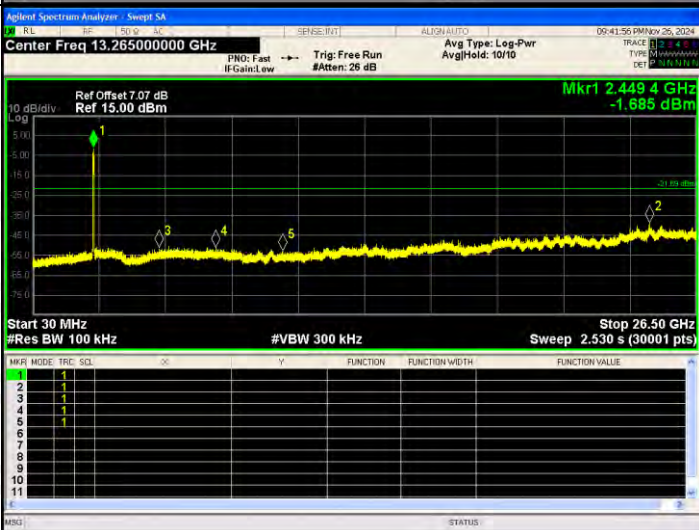
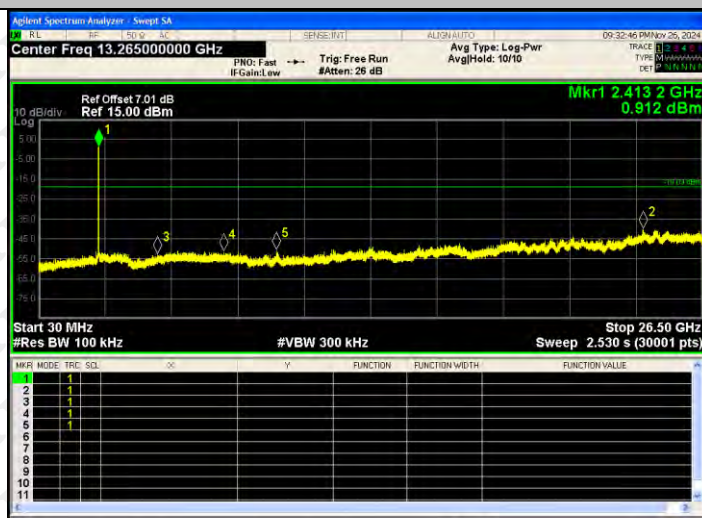


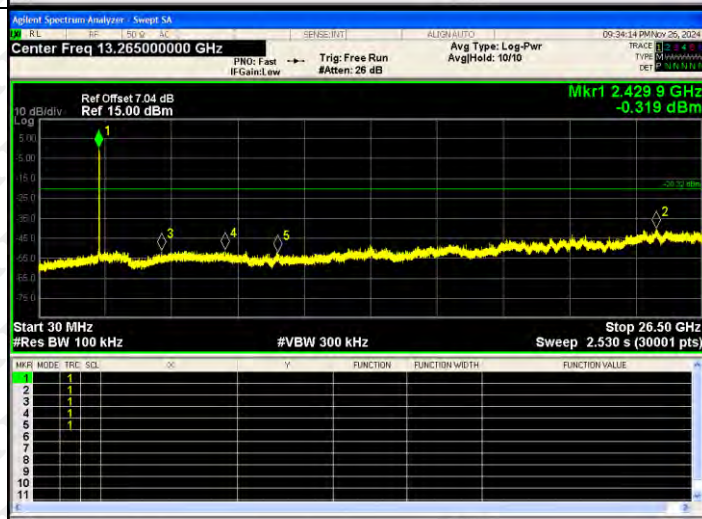
802.11n(HT40)/LCH	
802.11n(HT40)/MCH	
802.11n(HT40)/HCH	

RF Conducted Spurious Emissions Graphs

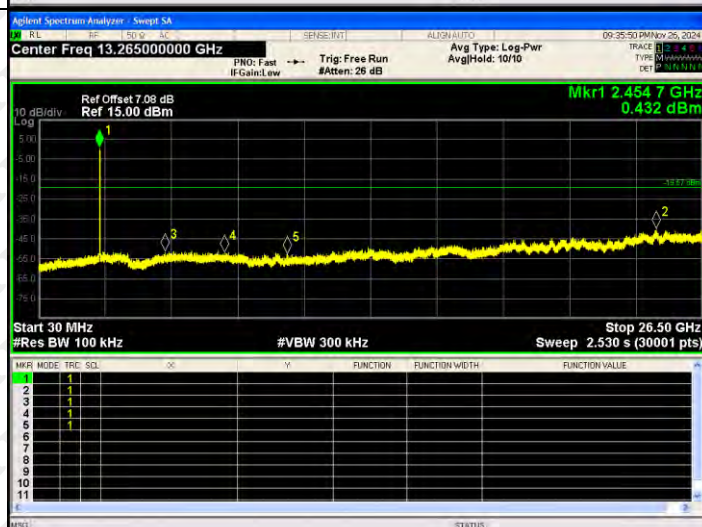
802.11ax(HT20)/LCH



802.11 ax(HT20)/MCH

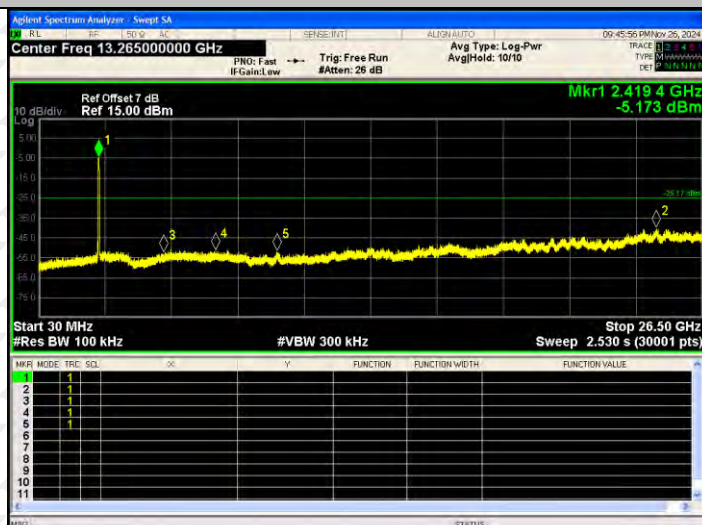


802.11 ax(HT20)/HCH

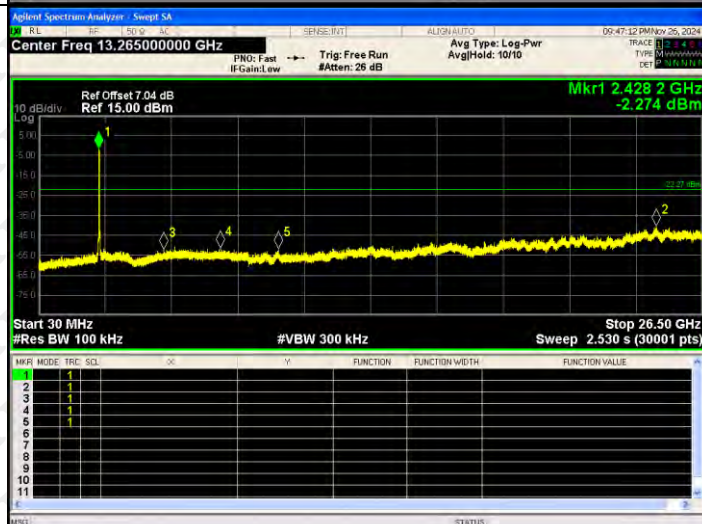


RF Conducted Spurious Emissions Graphs

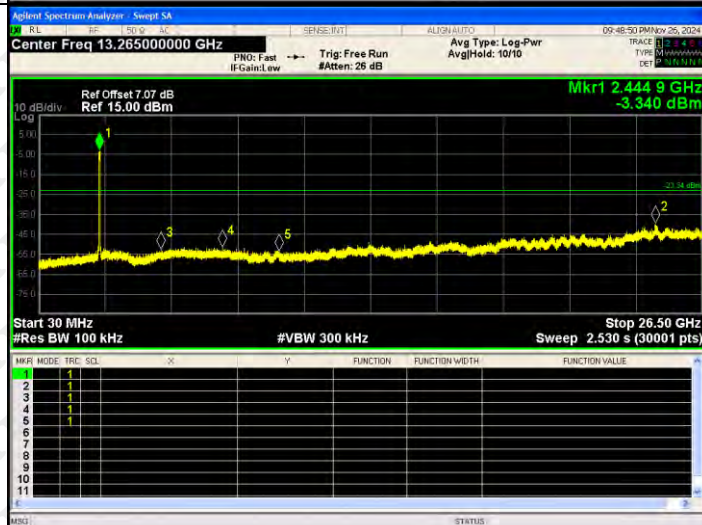
802.11ax(HT40)/LCH



802.11 ax(HT40)/MCH

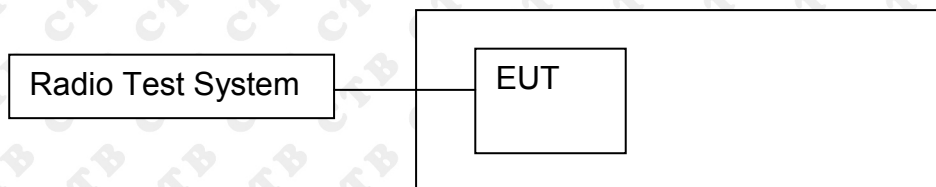


802.11 ax(HT40)/HCH



9. COUDUCTED OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

9.3 Test procedure

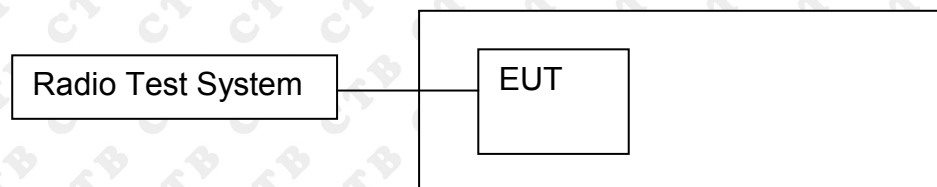
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak. Channel power function is used
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

9.4 Test Result

Mode	Channel.	Maximum Peak Power [dBm] ant 1	Maximum Peak Power [dBm] ant 2	Total Power Peak Output Power(dBm)	Limit[dBm]
802.11b	LCH	19.789	19.761	/	30
	MCH	20.101	20.016	/	30
	HCH	20.118	20.254	/	30
802.11g	LCH	20.964	20.968	/	30
	MCH	21.552	21.5	/	30
	HCH	20.175	20.101	/	30
802.11n(HT20)	LCH	21.007	20.938	23.983	30
	MCH	21.642	21.519	24.591	30
	HCH	20.409	19.936	23.189	30
802.11n(HT40)	LCH	17.666	17.785	20.736	30
	MCH	21.923	21.583	24.767	30
	HCH	18.31	19.439	21.921	30
802.11ax(HT20)	LCH	20.258	20.199	23.239	30
	MCH	20.445	20.699	23.584	30
	HCH	20.419	19.928	23.191	30
802.11ax(HT40)	LCH	17.799	17.471	20.648	30
	MCH	21.599	20.162	23.950	30
	HCH	20.099	19.2	22.683	30

10. 6DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

10.3 Test procedure

1. Rem1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
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 frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

ANT1:

Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.079	500	PASS
	MCH	10.314	500	PASS
	HCH	10.456	500	PASS
802.11g	LCH	15.499	500	PASS
	MCH	15.927	500	PASS
	HCH	15.148	500	PASS
802.11n(HT20)	LCH	16.92	500	PASS
	MCH	17.613	500	PASS
	HCH	16.114	500	PASS
802.11n(HT40)	LCH	34.56	500	PASS
	MCH	32.91	500	PASS
	HCH	35.089	500	PASS
802.11ax(HT20)	LCH	19.032	500	PASS
	MCH	19.031	500	PASS
	HCH	19.04	500	PASS
802.11ax(HT40)	LCH	32.655	500	PASS
	MCH	33.873	500	PASS
	HCH	33.875	500	PASS

ANT2:

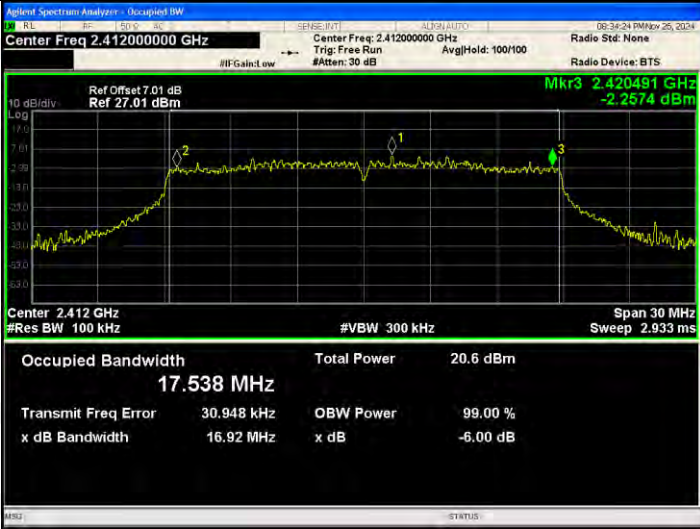
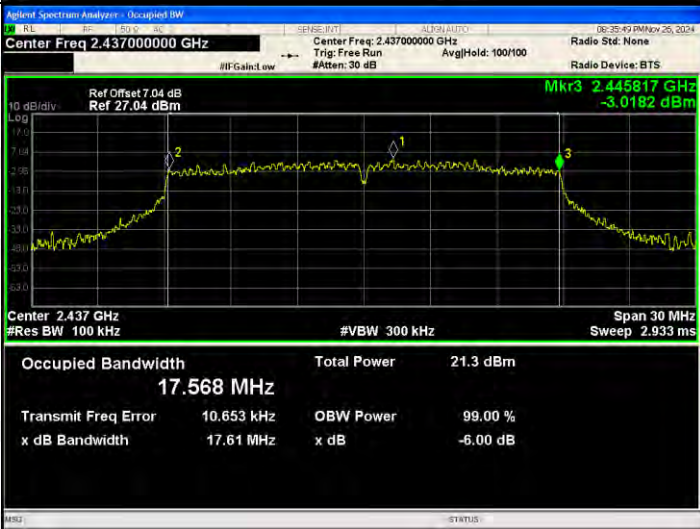
Test Mode	Frequency	6dB Bandwidth (MHz)	Limit(kHz)	Result
802.11b	LCH	10.325	500	PASS
	MCH	10.115	500	PASS
	HCH	10.346	500	PASS
802.11g	LCH	16.018	500	PASS
	MCH	15.674	500	PASS
	HCH	16.014	500	PASS
802.11n(HT20)	LCH	16.329	500	PASS
	MCH	15.992	500	PASS
	HCH	15.148	500	PASS
802.11n(HT40)	LCH	35.422	500	PASS
	MCH	35.145	500	PASS
	HCH	35.184	500	PASS
802.11ax(HT20)	LCH	18.869	500	PASS
	MCH	18.948	500	PASS
	HCH	19.022	500	PASS
802.11ax(HT40)	LCH	37.922	500	PASS
	MCH	37.898	500	PASS
	HCH	37.973	500	PASS

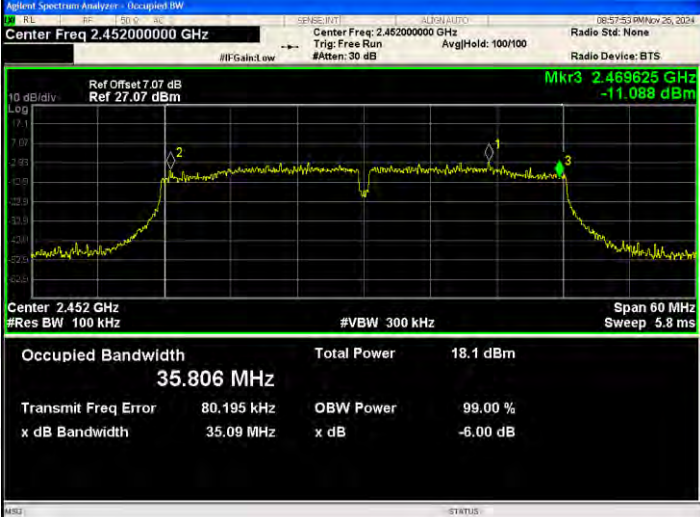
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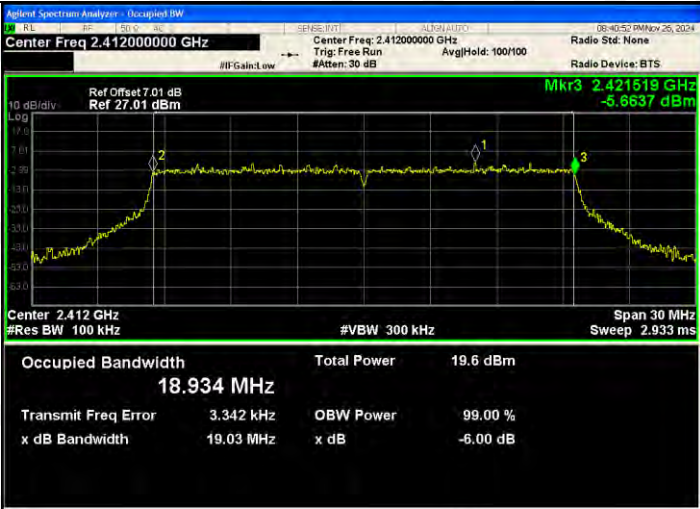
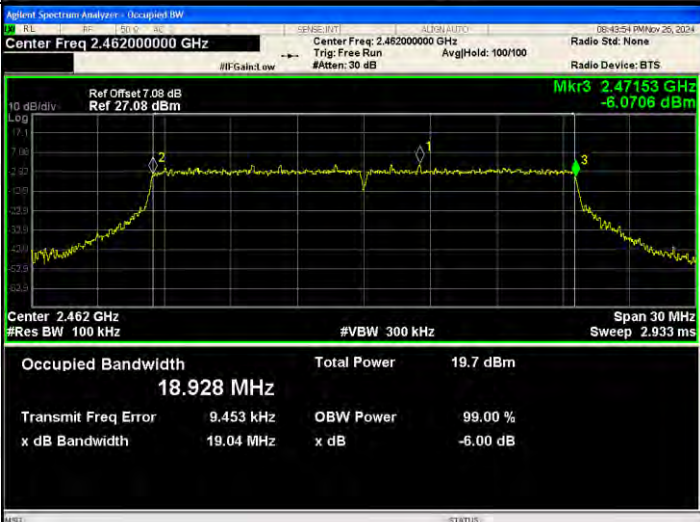
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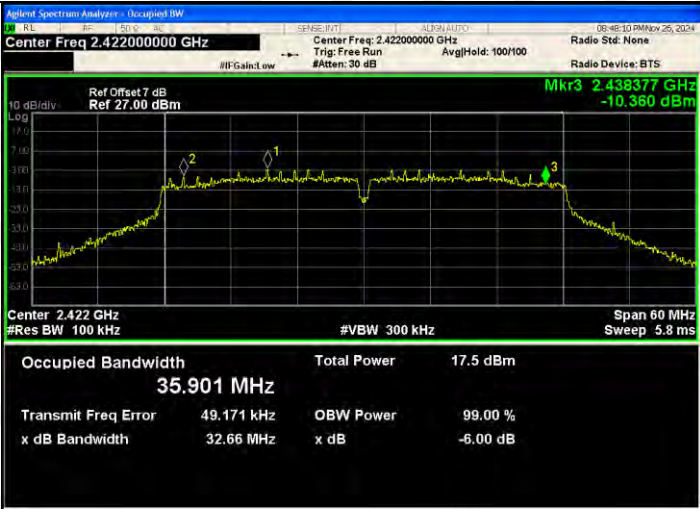


802.11g/LCH	
802.11g/MCH	
802.11g/HCH	

802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 7.01 dB Ref 27.01 dBm Occupied Bandwidth 17.538 MHz Total Power 20.6 dBm Transmit Freq Error 30.948 kHz x dB Bandwidth 16.92 MHz OBW Power 99.00 % 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 Occupied Bandwidth 17.568 MHz Total Power 21.3 dBm Transmit Freq Error 10.653 kHz x dB Bandwidth 17.61 MHz OBW Power 99.00 % 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 Occupied Bandwidth 17.576 MHz Total Power 20.0 dBm Transmit Freq Error 3.303 kHz x dB Bandwidth 16.11 MHz OBW Power 99.00 % x dB -6.00 dB

802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.422000000 GHz Ref Offset: 7 dB Ref: 27.00 dBm Occupied Bandwidth: 35.906 MHz Total Power: 17.6 dBm Transmit Freq Error: 17.514 kHz x dB Bandwidth: 34.56 MHz OBW Power: 99.00 % x dB: -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.437000000 GHz Ref Offset: 7.04 dB Ref: 27.04 dBm Occupied Bandwidth: 35.806 MHz Total Power: 21.9 dBm Transmit Freq Error: 21.432 kHz x dB Bandwidth: 32.91 MHz OBW Power: 99.00 % x dB: -6.00 dB
802.11n(HT40)/HC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.452000000 GHz Ref Offset: 7.07 dB Ref: 27.07 dBm Occupied Bandwidth: 35.806 MHz Total Power: 18.1 dBm Transmit Freq Error: 80.195 kHz x dB Bandwidth: 35.09 MHz OBW Power: 99.00 % x dB: -6.00 dB

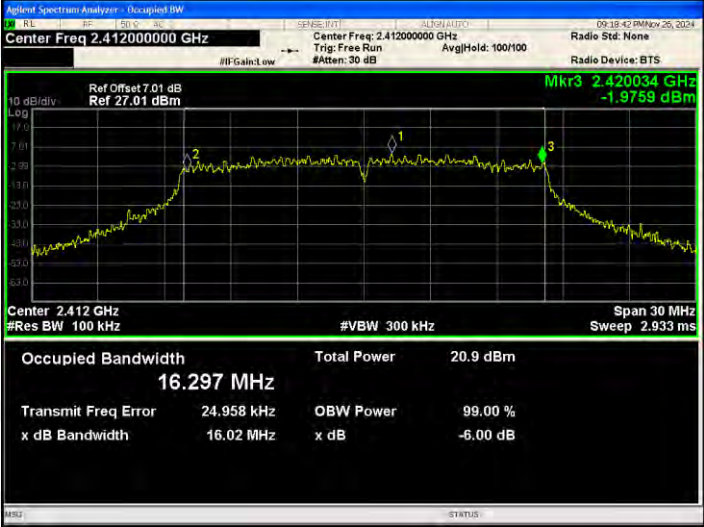
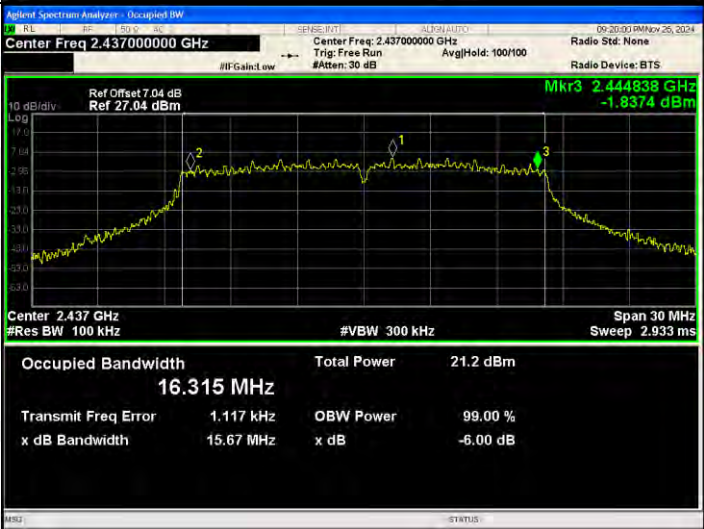
802.11ax(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 7.01 dB Ref 27.01 dBm Center 2.412 GHz #Res BW 100 kHz Occupied Bandwidth 18.934 MHz Total Power 19.6 dBm Transmit Freq Error 3.342 kHz OBW Power 99.00 % x dB Bandwidth 19.03 MHz x dB -6.00 dB
802.11ax(HT20)/M CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Center 2.437 GHz #Res BW 100 kHz Occupied Bandwidth 18.907 MHz Total Power 19.7 dBm Transmit Freq Error 17.485 kHz OBW Power 99.00 % x dB Bandwidth 19.03 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 Center 2.462 GHz #Res BW 100 kHz Occupied Bandwidth 18.928 MHz Total Power 19.7 dBm Transmit Freq Error 9.453 kHz OBW Power 99.00 % x dB Bandwidth 19.04 MHz x dB -6.00 dB

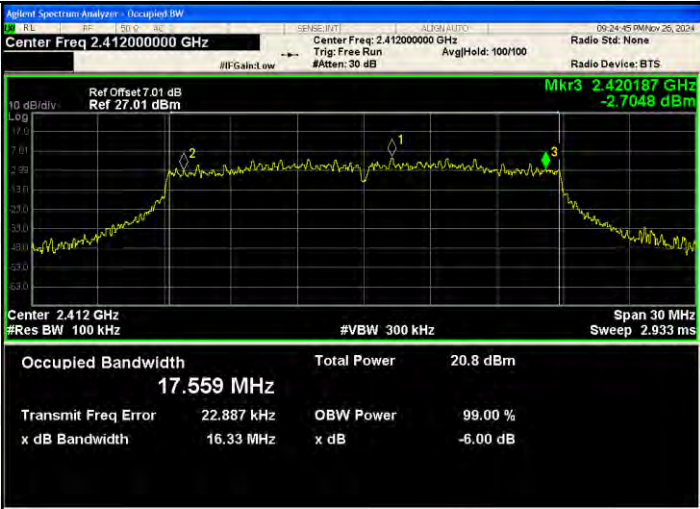
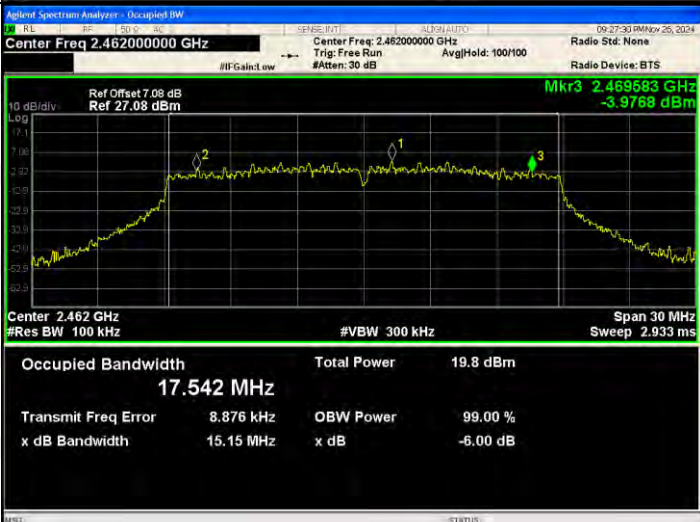
802.11ax(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 7 dB Ref 27.00 dBm Occupied Bandwidth 35.901 MHz Total Power 17.5 dBm Transmit Freq Error 49.171 kHz OBW Power 99.00 % x dB Bandwidth 32.66 MHz x dB -6.00 dB
802.11ax(HT40)/M CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Occupied Bandwidth 35.806 MHz Total Power 21.3 dBm Transmit Freq Error 4.810 kHz OBW Power 99.00 % x dB Bandwidth 33.87 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 35.828 MHz Total Power 19.8 dBm Transmit Freq Error 62.231 kHz OBW Power 99.00 % x dB Bandwidth 33.87 MHz x dB -6.00 dB

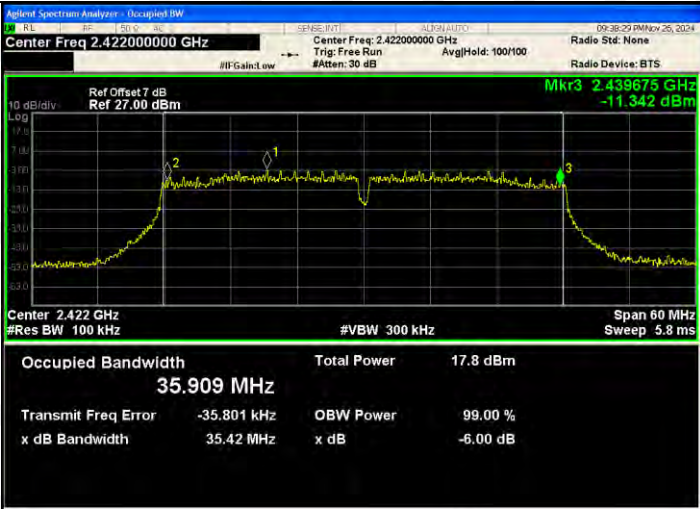
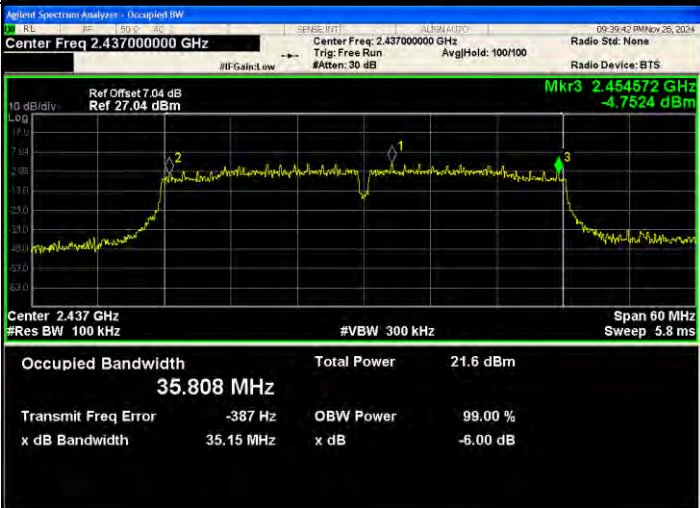
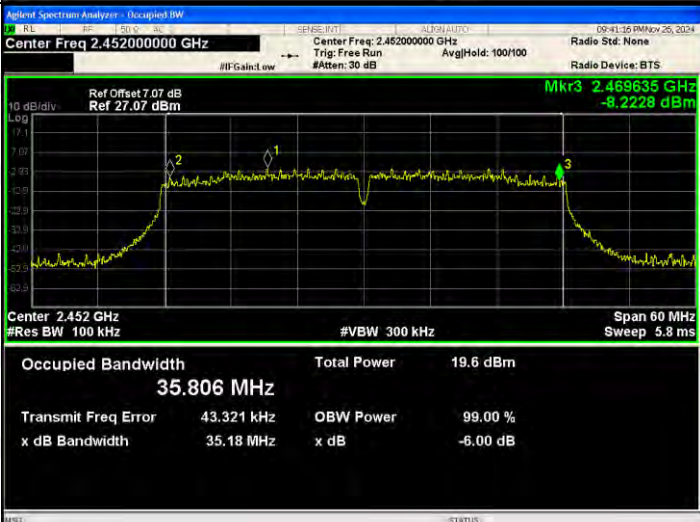
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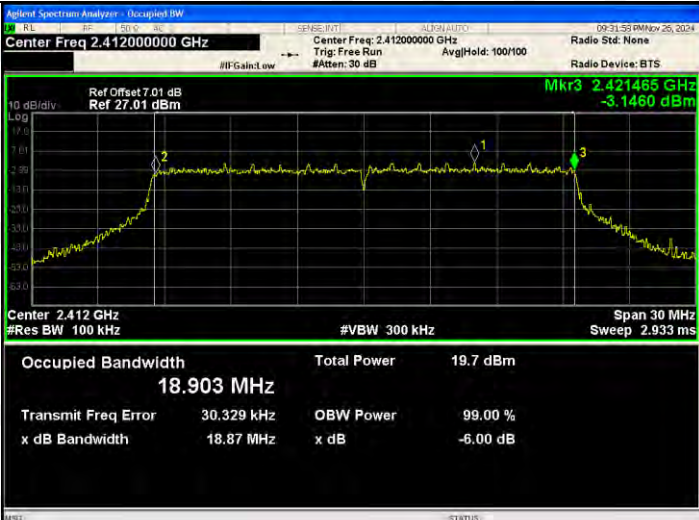
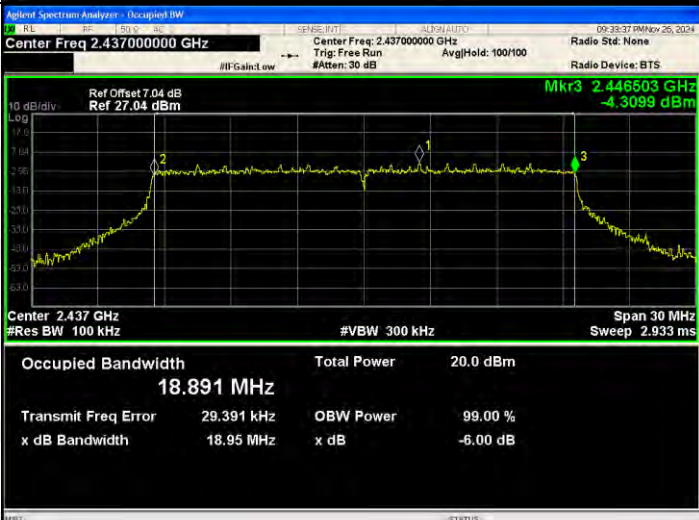
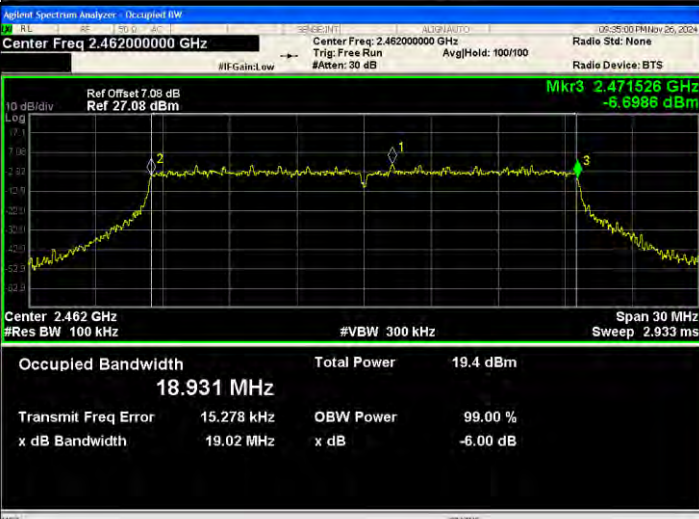
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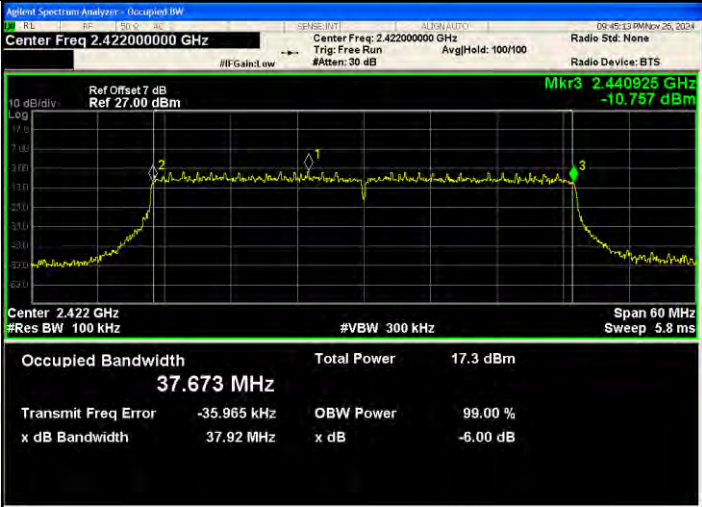
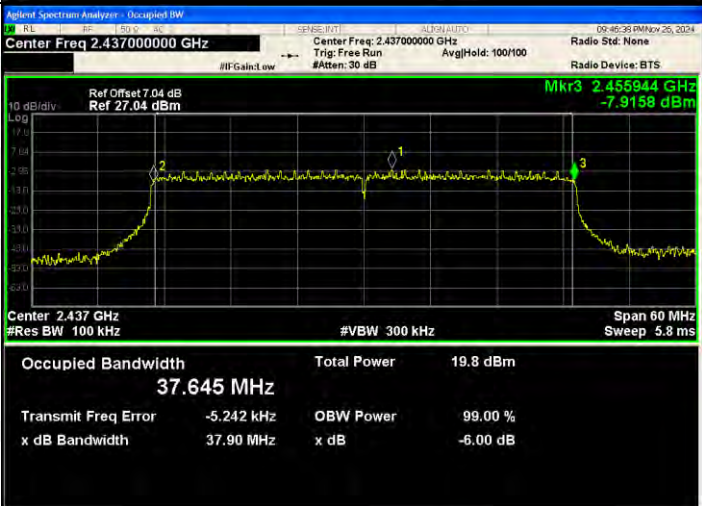
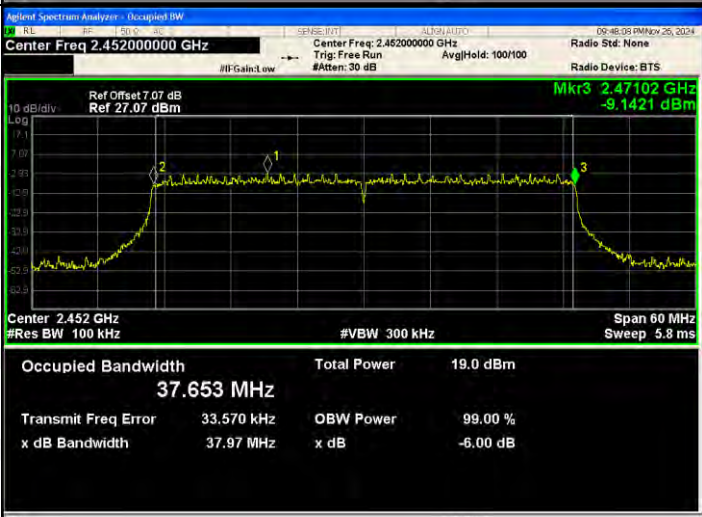


802.11g/LCH	
802.11g/MCH	
802.11g/HCH	

802.11n(HT20)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.412000000 GHz Ref Offset: 7.01 dB Ref: 27.01 dBm Occupied Bandwidth: 17.559 MHz Total Power: 20.8 dBm Transmit Freq Error: 22.887 kHz x dB Bandwidth: 16.33 MHz OBW Power: 99.00 % 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 Occupied Bandwidth: 17.536 MHz Total Power: 21.3 dBm Transmit Freq Error: 13.031 kHz x dB Bandwidth: 15.99 MHz OBW Power: 99.00 % 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 Occupied Bandwidth: 17.542 MHz Total Power: 19.8 dBm Transmit Freq Error: 8.876 kHz x dB Bandwidth: 15.15 MHz OBW Power: 99.00 % x dB: -6.00 dB

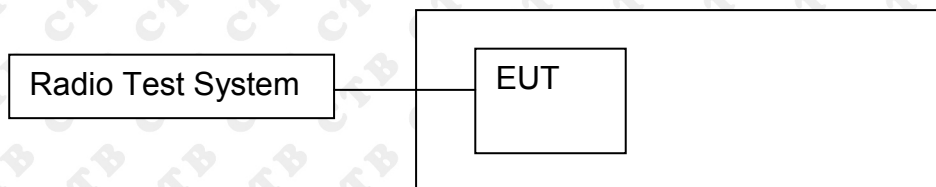
802.11n(HT40)/LC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.42200000 GHz Ref Offset 7 dB Ref 27.00 dBm Occupied Bandwidth 35.909 MHz Total Power 17.8 dBm Transmit Freq Error -35.801 kHz OBW Power 99.00 % x dB Bandwidth 35.42 MHz x dB -6.00 dB
802.11n(HT40)/MC H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 27.04 dBm Occupied Bandwidth 35.808 MHz Total Power 21.6 dBm Transmit Freq Error -387 Hz OBW Power 99.00 % x dB Bandwidth 35.15 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 35.806 MHz Total Power 19.6 dBm Transmit Freq Error 43.321 kHz OBW Power 99.00 % x dB Bandwidth 35.18 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 Occupied Bandwidth 18.903 MHz Total Power 19.7 dBm Transmit Freq Error 30.329 kHz OBW Power 99.00 % x dB Bandwidth 18.87 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 Occupied Bandwidth 18.891 MHz Total Power 20.0 dBm Transmit Freq Error 29.391 kHz OBW Power 99.00 % x dB Bandwidth 18.95 MHz x dB -6.00 dB
802.11ax(HT20)/H CH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 7.06 dB Ref 27.06 dBm Occupied Bandwidth 18.931 MHz Total Power 19.4 dBm Transmit Freq Error 15.278 kHz OBW Power 99.00 % x dB Bandwidth 19.02 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: 37.673 MHz Total Power: 17.3 dBm Transmit Freq Error: -35.965 kHz OBW Power: 99.00 % x dB Bandwidth: 37.92 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: 37.645 MHz Total Power: 19.8 dBm Transmit Freq Error: -5.242 kHz OBW Power: 99.00 % x dB Bandwidth: 37.90 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: 37.653 MHz Total Power: 19.0 dBm Transmit Freq Error: 33.570 kHz OBW Power: 99.00 % x dB Bandwidth: 37.97 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	-9.923	-10.46	/	8
	MCH	-9.419	-10.93	/	8
	HCH	-9.671	-10.635	/	8
802.11g	LCH	-11.431	-11.8	/	8
	MCH	-11.452	-10.777	/	8
	HCH	-12.622	-12.905	/	8
802.11n(H T20)	LCH	-11.321	-11.884	-8.583	8
	MCH	-10.426	-10.919	-7.655	8
	HCH	-10.292	-13.722	-8.667	8
802.11n(H T40)	LCH	-15.865	-18.427	-13.949	8
	MCH	-13.767	-14.433	-11.077	8
	HCH	-17.192	-17.045	-14.108	8
802.11ax(HT20)	LCH	-14.379	-15.1	-11.714	8
	MCH	-14.48	-14.156	-11.305	8
	HCH	-13.882	-14.899	-11.350	8
802.11ax(HT40)	LCH	-17.415	-20.24	-15.591	8
	MCH	-14.27	-17.414	-12.553	8
	HCH	-14.806	-17.811	-13.043	8

ANT1:
Test Graph

Graphs

802.11b /LCH

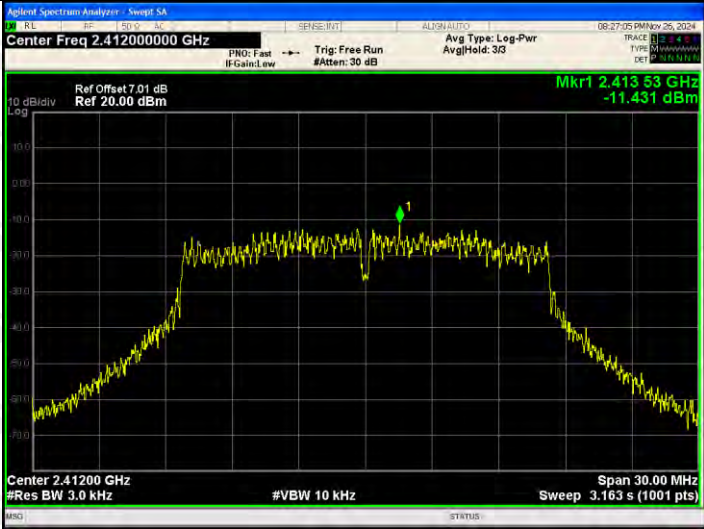


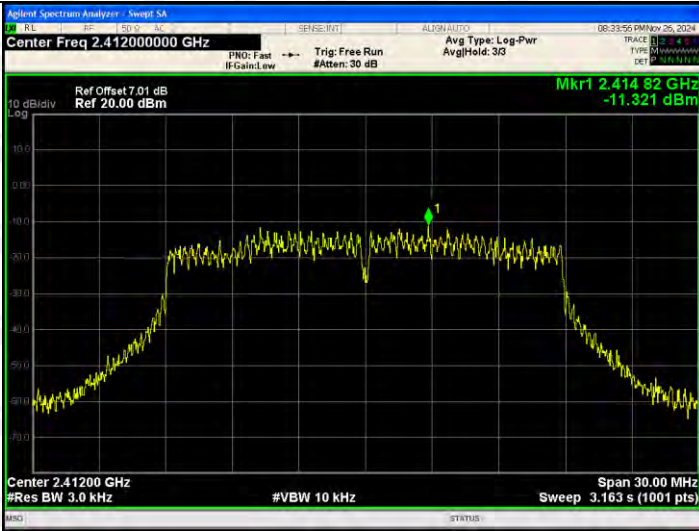
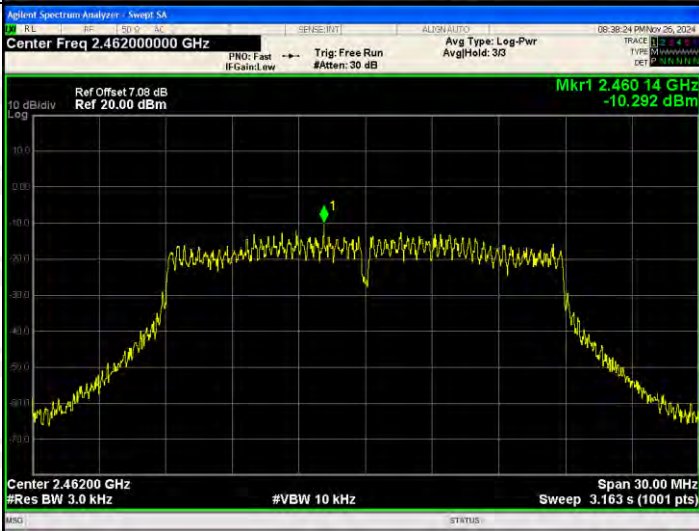
802.11b /MCH

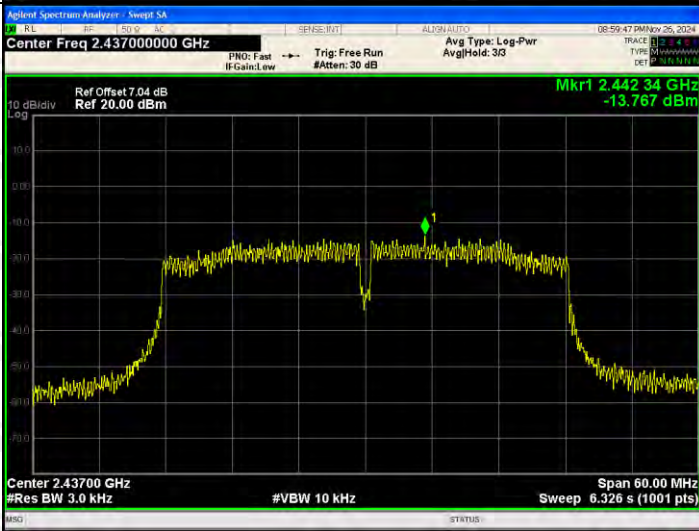
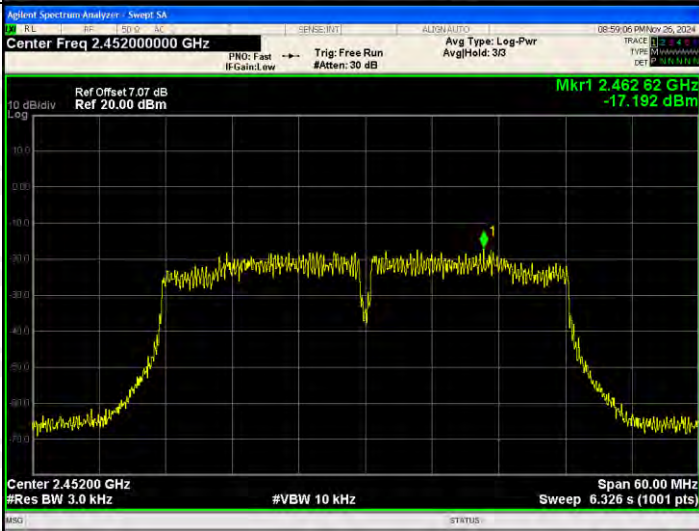


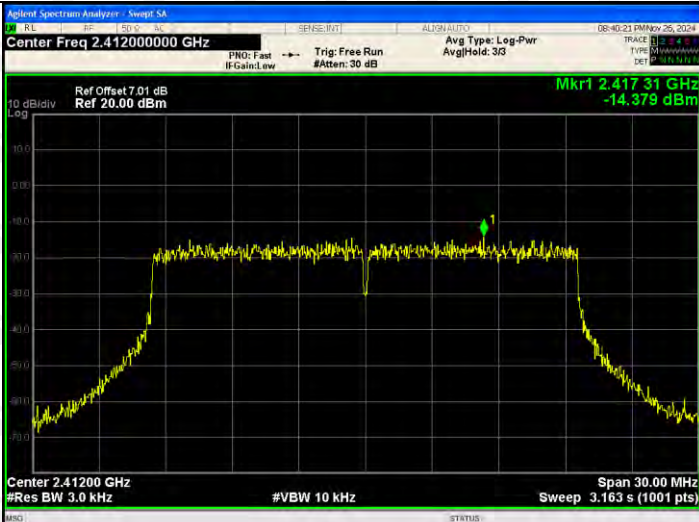
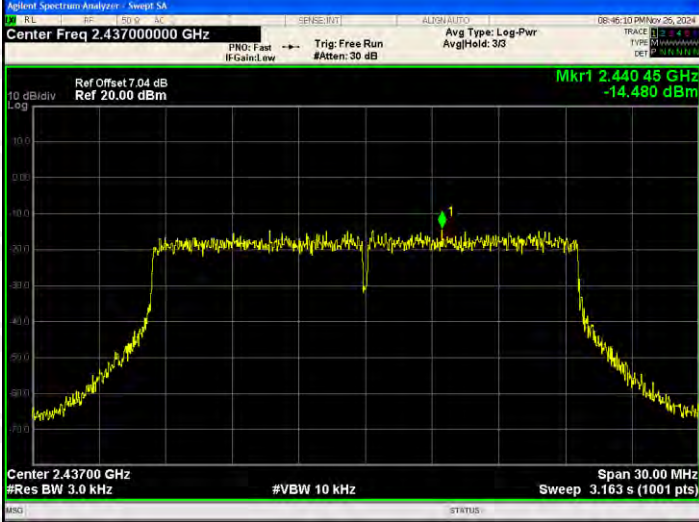
802.11b/HCH



802.11g/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.41353 GHz -11.431 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11g/MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 7.04 dB Ref 20.00 dBm Mkr1 2.44111 GHz -11.452 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)
802.11g/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 7.08 dB Ref 20.00 dBm Mkr1 2.46512 GHz -12.622 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(HT20)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.41482 GHz -11.321 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 2.43282 GHz -10.426 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 2.46014 GHz -10.292 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 dB Ref 20.00 dBm Mkr1 2.43454 GHz -15.865 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 2.44234 GHz -13.767 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 2.46262 GHz -17.192 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

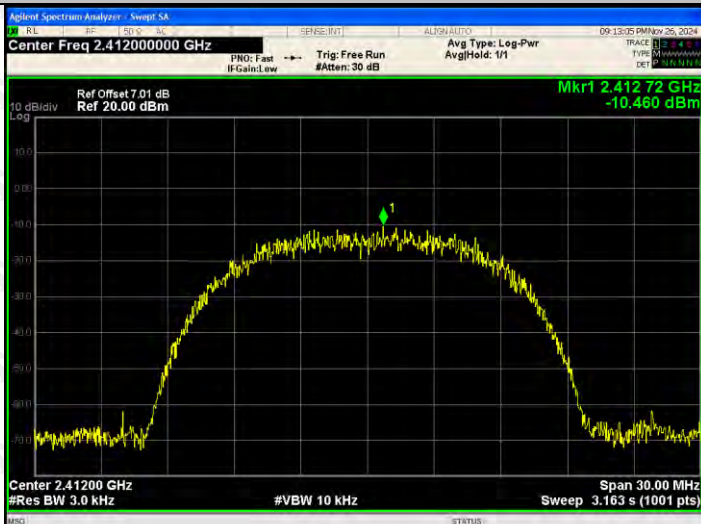
802.11ax(HT20)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) Mkr1 2.41731 GHz -14.379 dBm
802.11ax(HT20)/MC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 3.163 s (1001 pts) Mkr1 2.44045 GHz -14.480 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 2.45591 GHz -13.882 dBm

802.11ax(HT40)/LC H	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.42200000 GHz Ref Offset 7 dB Ref 20.00 dBm Mkr1 2.42482 GHz -17.415 dBm Center 2.4220 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 2.44132 GHz -14.270 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 2.45854 GHz -14.806 dBm Center 2.45200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)

ANT 2:
Test Graph

Graphs

802.11b /LCH



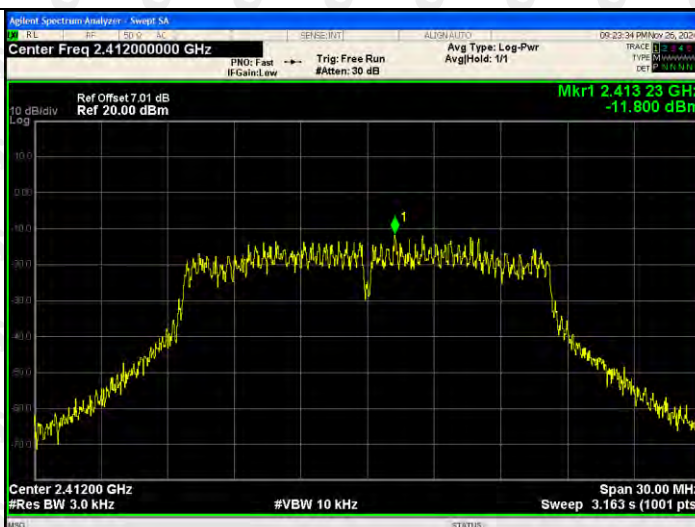
802.11b /MCH



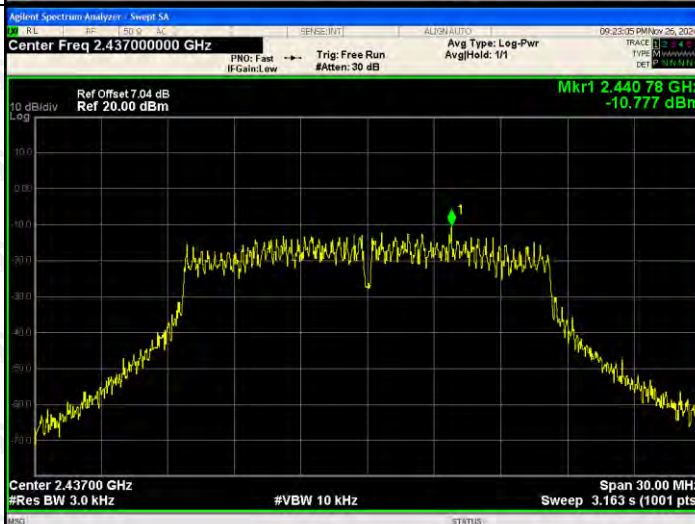
802.11b/HCH



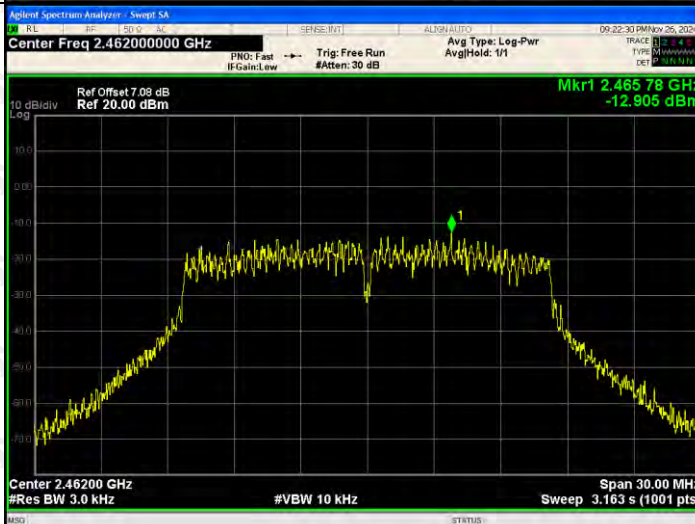
802.11g/LCH

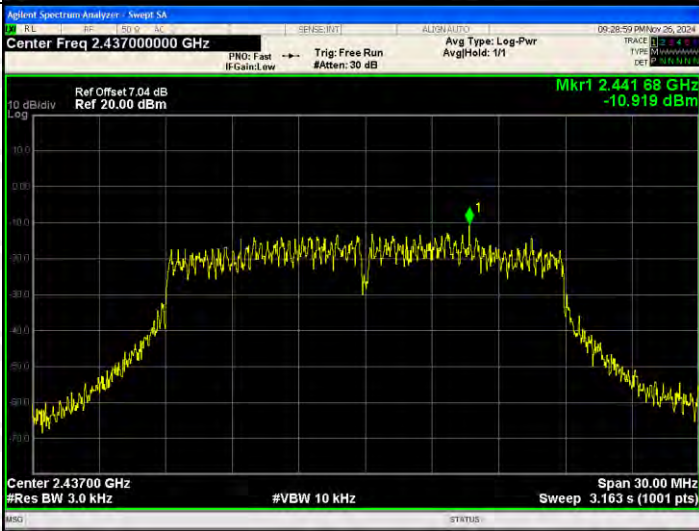


802.11g/MCH

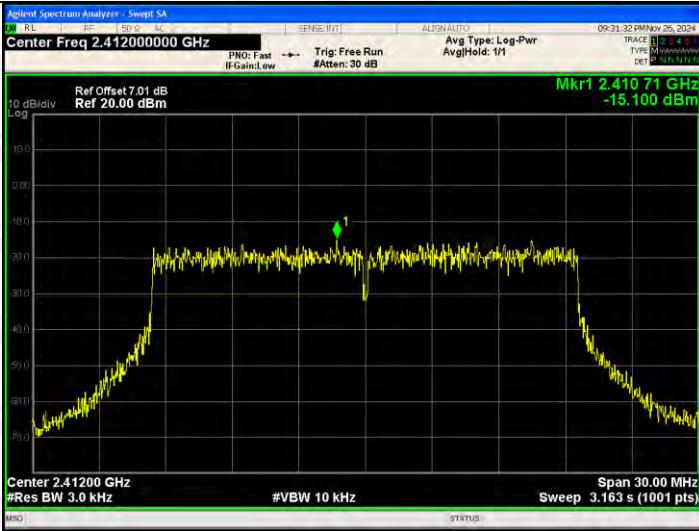


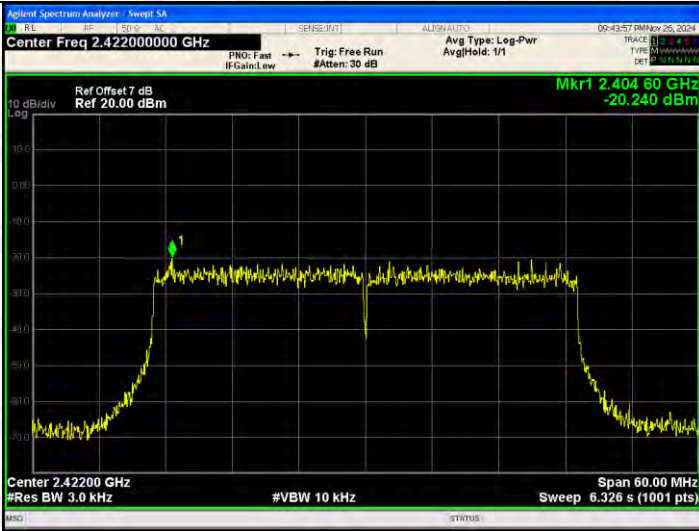
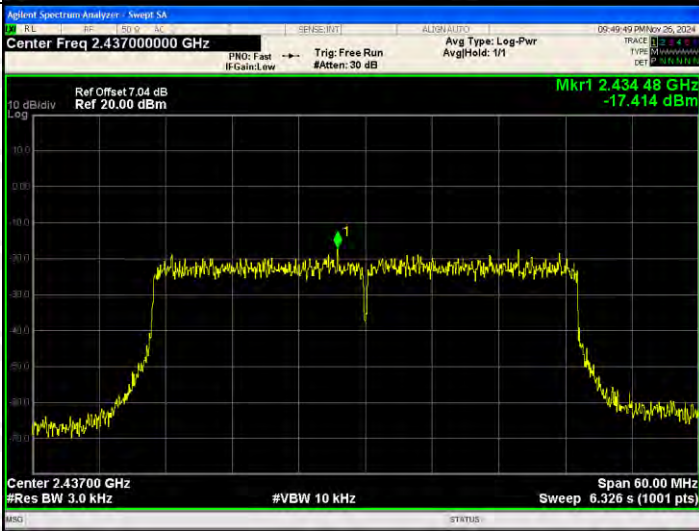
802.11g/HCH



802.11n(HT20)/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 7.01 dB Ref 20.00 dBm Mkr1 2.41638 GHz -11.884 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 2.44168 GHz -10.919 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 2.46074 GHz -13.722 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 dB Ref 20.00 dBm Mkr1 2.429 50 GHz -18.427 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 2.445 70 GHz -14.433 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 2.449 78 GHz -17.045 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 2.41071 GHz -15.100 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 2.44450 GHz -14.156 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 7.08 dB Ref 20.00 dBm Mkr1 2.45453 GHz -14.899 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 dB Ref 20.00 dBm Mkr1 2.404 60 GHz -20.240 dBm Center 2.4220 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 48 GHz -17.414 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 2.456 98 GHz -17.811 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.

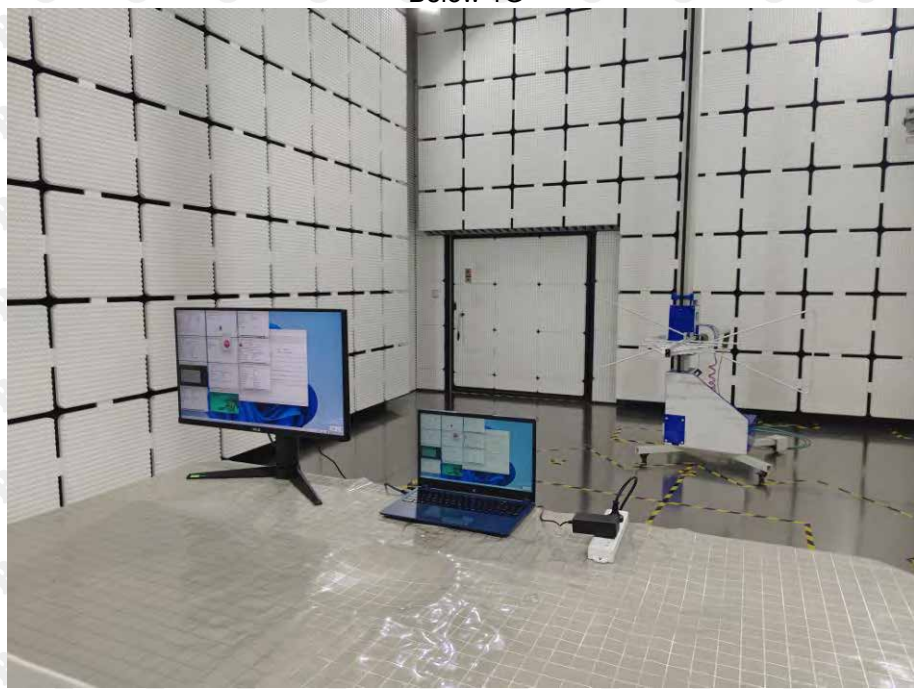
EUT Antenna:

The antenna is FPC antenna and no consideration of replacement. The best case gain of the antenna is ANT1: 1.62dBi, ANT2: 2.40dBi

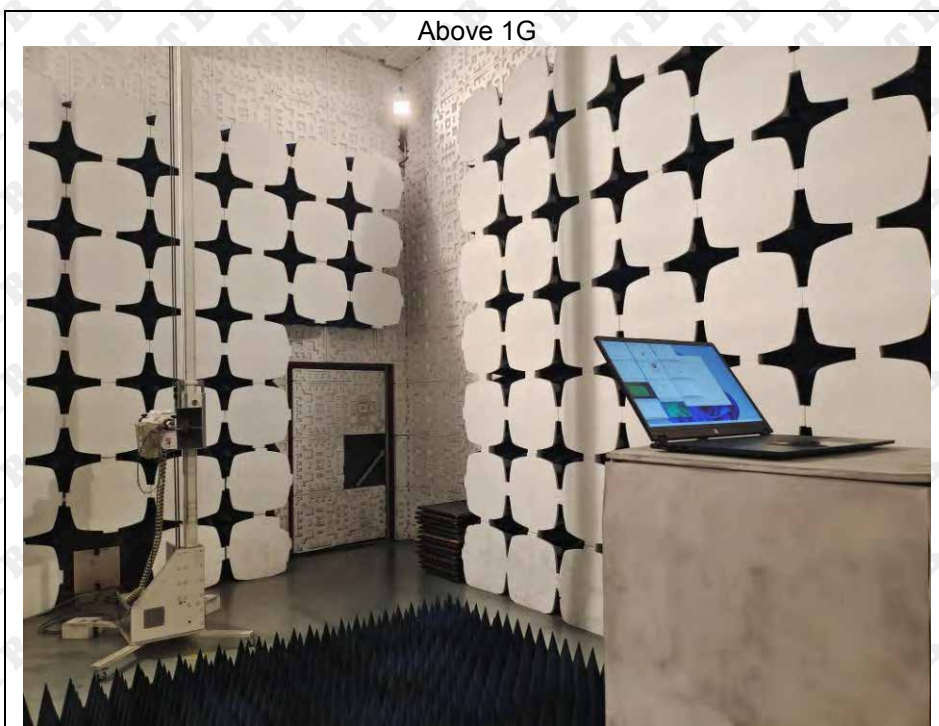
13. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

Below 1G



Above 1G



Conducted Emission



***** END OF REPORT *****