## A.6 POWER SPECTRAL DENSITY

Test Date	2022/07/06~12	Temp./Hum.	23~25°C/42~56%	
Cable Loss	0.5dB	Tastad Dv	Vyman Hay	
Test Voltage	AC 120V 60Hz (Via AC Adapter)	Tested By	Kuper Hsu	

A.6.1 Power Spectral Density Result

Mode	Centre Frequency	Power Spectral	Density (dBm)	MAX. Power Spectral Density (dBm)	Limit	
	(MHz)	AUX	Main	Note 2		
	2412	-2.70	-2.45	-2.450		
802.11b	2442	-2.40	-2.26	-2.260		
	2462	-2.66	-2.41	-2.410		
	2472	-5.79	-6.88	-5.790	<8 dBm/3kHz	
802.11g	2412	-7.10	-5.79	-5.790	<0 UDIII/ 3KHZ	
	2442	-4.26	-3.79	-3.790		
	2462	-6.79	-5.88	-5.880		
	2472	-13.58	-12.74	-12.740		

Note: 1. All results have been included cable loss.

<sup>2.</sup> MAX. Power Spectral Density (dBm) = Max of each Power Spectral Density (dBm).

Mode	Centre Frequency	Power Spectral Density (dBm)		Total Power Spectral Density (dBm)	Limit	
	(MHz)	AUX	Main	Note 2		
	2412	-7.46	-8.30	-4.849		
802.11n-HT20	2442	-3.24	-4.05	-0.616		
802.11II-H120	2462	-9.11	-8.98	-6.034		
	2472	-17.43	-15.48	-13.336		
	2412	-12.51	-11.83	-9.146		
902 11 <sub>m</sub> HT40	2442	-11.41	-11.25	-8.319		
802.11n-HT40	2462	-12.12	-12.16	-9.130		
	2472	-18.53	-18.23	-15.367	<8 dBm/3kHz	
802.11ax-HE20	2412	-8.72	-8.36	-5.526		
	2442	-4.76	-5.00	-1.868		
	2462	-9.33	-9.41	-6.360		
	2472	-17.61	-17.32	-14.452		
802.11ax-HE40	2422	-13.85	-12.56	-10.147		
	2442	-12.20	-11.65	-8.906		
	2452	-13.16	-13.31	-10.224		
	2462	-19.65	-19.51	-16.569		

Note: 1. All results have been included cable loss.

File Number: C1M2207003 Report Number: EM-F220477

<sup>2.</sup> According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm) = Sum to individual Power Spectral Density (dBm)



Mode	RU Centre		Power Spectral Density (dBm)		Total Power	T touts
	Configuration	Frequency (MHz)	AUX	Main	Spectral Density (dBm) Note 2	Limit
802.11ax-HE20	26/0	2412	2.57	2.09	5.347	<8 dBm/3kHz
	52/37		0.41	0.57	3.501	
	106/53		-3.62	-3.12	-0.353	
	26/8	2472	-10.23	-9.14	-6.641	
	52/40		-12.87	-13.27	-10.055	
	106/54		-15.33	-14.74	-12.015	
802.11ax-HE40	242/61	2422	-9.25	-9.18	-6.205	
	242/62	2462	-18.21	-16.98	-14.541	

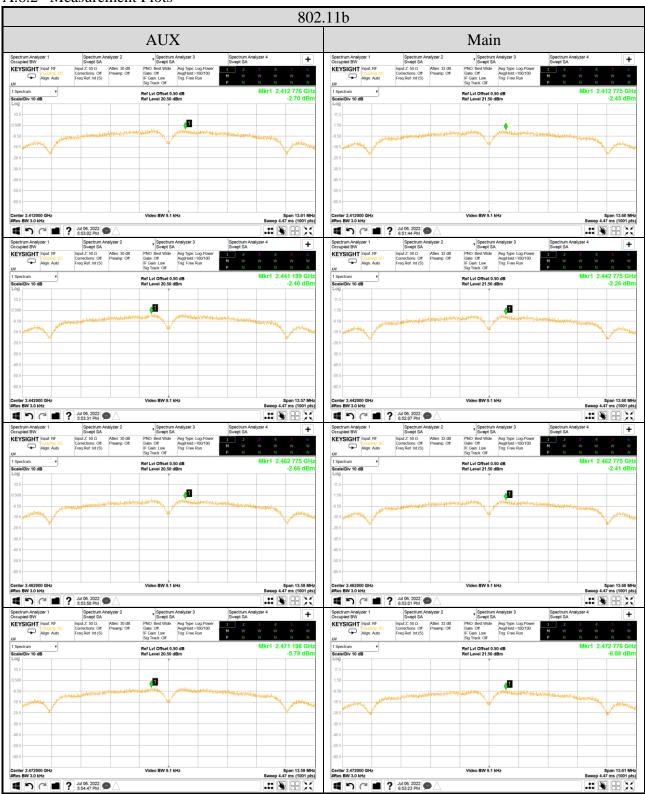
Note: 1. All results have been included cable loss.
2. According to KDB 662911 D01 E)2)a), Total Power Spectral Density (dBm) = Sum to individual Power Spectral Density (dBm).

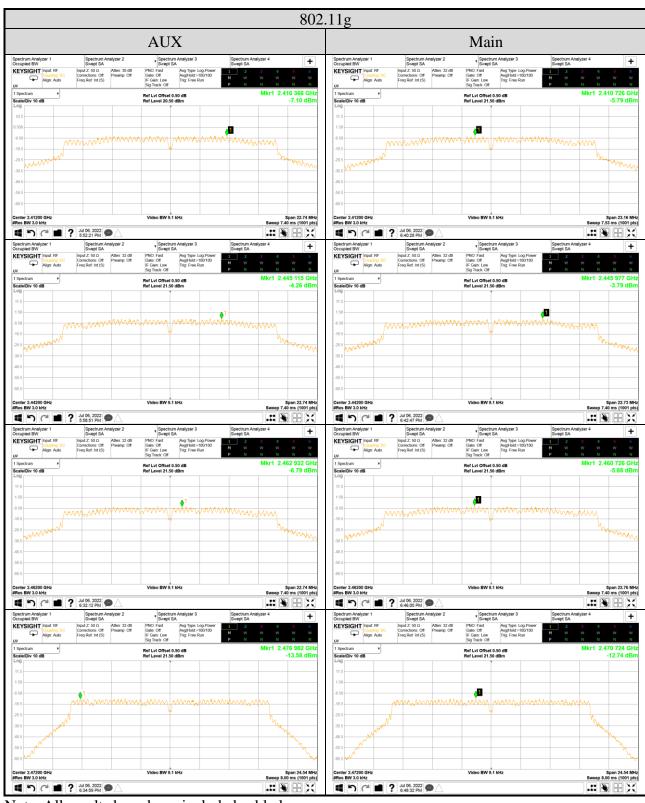
Mode	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
BLE	2402	-11.92	<8 dBm/3kHz
	2440	-11.74	
	2480	-10.93	

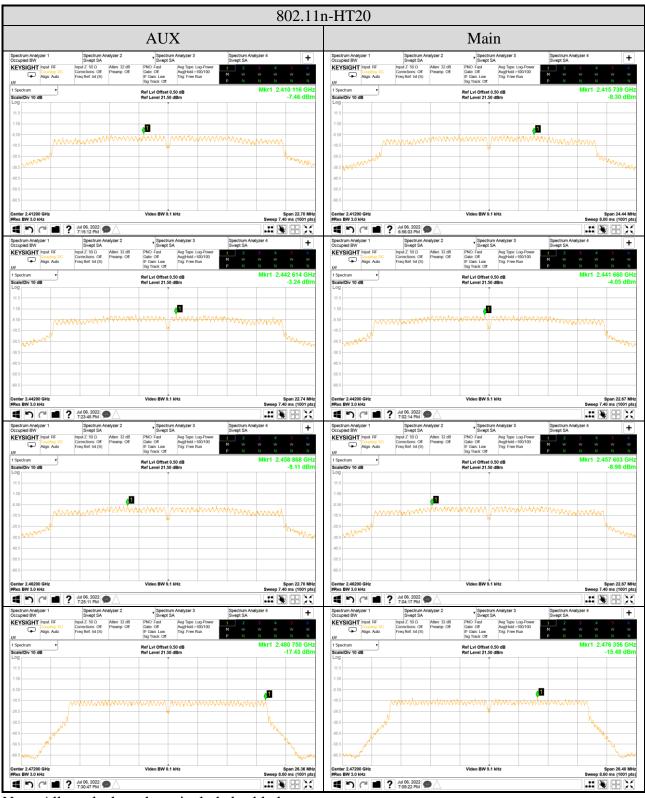
Note: All results have been included cable loss and Simultaneous Factor.

File Number: C1M2207003 Report Number: EM-F220477

## A.6.2 Measurement Plots







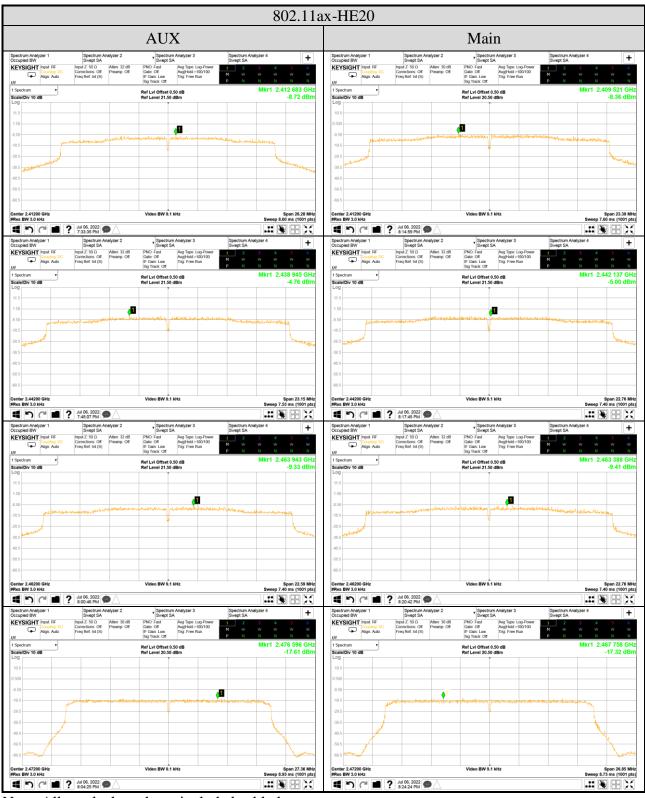
802.11n-HT40 **AUX** Main Spectrum Analyzer 2 Swept SA Input Z: 50 Q Corrections: Off Freq Ref: Int (S) PNO: Fast Cate: Off Program Analyzer 3 Swept SA
PNO: Fast Cate: Off Aug|Hold > 100/100 Trig. Free Run Spectrum Analyzer 1 Occupied BW

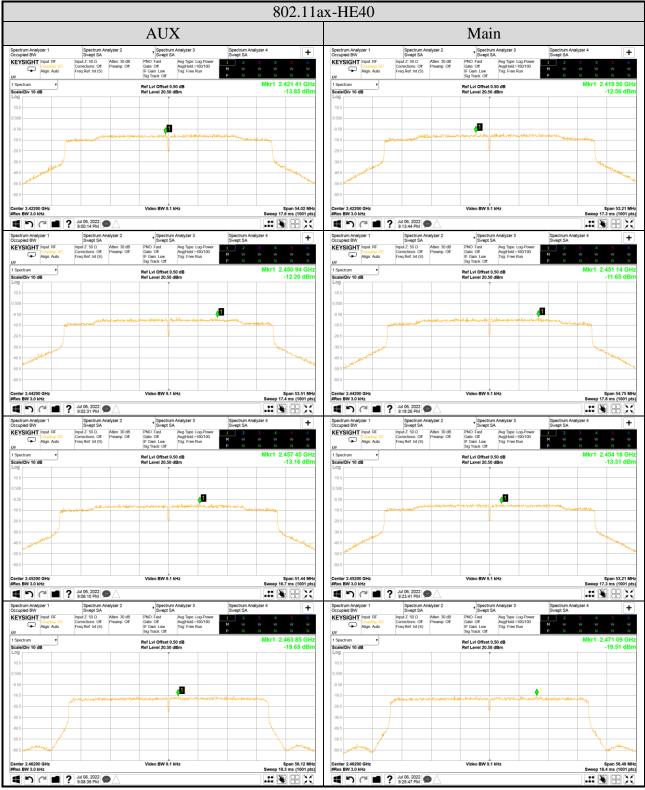
KEYSIGHT Input: RF
Couping De Align: Auto Spectrum Analyzer 2 Swept SA Input Z: 50 Q Corrections: Off Freq Ref: Int (S) Occupied BW

KEYSIGHT Input: RF

Coupling: D

Align: Auto Ref Lvi Offset 0.50 dB Ref Level 20.50 dBm Ref Lvi Offset 0.50 dB Ref Level 20.50 dBm ø **41** Span 52.70 MHz Sweep 17.1 ms (1001 pts) Video BW 9.1 kHz Span 52.67 MH Sweep 17.1 ms (1001 pts Video BW 9.1 kHz 1 9 Jul 06, 2022 9 8:41:40 PM 1 9 Jul 06, 2022 8:30:17 PM Spectrum Analyzer 3 Swept SA KEYSIGHT Input: RF
Coupling
Align: Aut KEYSIGHT Input: RF
Coupling
Align: Aut Ref Lvi Offset 0.50 dB Ref Level 20.50 dBm Ref Lvi Offset 0.50 dB Ref Level 20.50 dBm **41** ø Video BW 9.1 kHz Video BW 9.1 kHz 4 5 C . 3ul 06, 2022 9 ... 🖫 🖼 💢 1 9 C 1 ? Jul 06, 2022 9 PNO: Fast Aug Type: L Gate: Off Aug Type: L Gate: Coff Trig: Free R Spectrum Analyzer 2 Swept SA Input Z: 50 \( \Omega\) Atten: 30 dB Corrections: Off Freq Ref. Int (S) Spectrum Analys Swept SA Spectrum And Swept SA + KEYSIGHT Input: RF
Coupling: I
Align: Auto Ref Lvi Offset 0.50 dB Ref Level 20.50 dBm Ref Lvl Offset 0.50 dB Ref Level 20.50 dBm **4**1 Video BW 9.1 kHz Video BW 9.1 kHz Span 52.70 MHz Sweep 17.1 ms (1001 pts) 1 9 P 1 1 2 3ul 06, 2022 9 8:47:12 PM 1 5 C 2022 9 Jul 06, 2022 9 8:34:42 PM Spectrum Analyzer 2 Swept SA Input Z: 50 Q Corrections: Off Freq Ref: Int (S) Spectrum Analyzer 2 Swept SA Input Z: 50 Q Corrections: Off Freq Ref: Int (S) KEYSIGHT Input: RE Avg Type: Log-Pow Avg(Hold>100/100 Trig: Free Run KEYSIGHT Input: RE 1 Spectrum Scale/Div 10 dB 1 Spectrum Scale/Div 10 dB Ref Lvi Offset 0.50 dB Ref Level 20.50 dBm Ref Lvi Offset 0.50 dB Ref Level 20.50 dBm **41 4**1 Video RW 9.1 kHz Video RW 9.1 kHz 1 9 Jul 06, 2022 9 8:53:58 PM 4 9 C P ? Jul 06, 2022 





802.11ax-HE20 **AUX** Main 2412MHz 2412MHz RU Configuration: 26/0 RU Configuration: 26/0 Spectrum Analyzer 2 Occupied BW Input Z: 50 0 Atten: 32 dB Corrections: Off Freq Ref: Int (S) Spectrum Analyzer 2 Occupied BW Input Z: 50 0 Atten: 30 dB Corrections: Off Freq Ref: Int (S) Spectrum Analyzer 1 Occupied BW KEYSIGHT Input: Ri KEYSIGHT Input: RF
Coupling: I
Align: Auto 2.402 857 0 2.57 d Span 3.173 MHz Sweep 1.07 ms (1001 pts) Span 3.138 MHz Sweep 1.07 ms (1001 pts Video BW 9.1 kHz Center 2.403500 GHz #Res BW 3.0 kHz Video BW 9.1 kHz 1 5 C 2022 9 Jul 06, 2022 9 RU Configuration: 52/37 RU Configuration: 52/37 + Ref Lvi Offset 0.50 dB Ref Level 21.50 dBm Ref Lvi Offset 0.50 dB Ref Level 21.50 dBm May had been been been been been been 1 5 C 1 7 Jul 06, 2022 9 1 5 C 1 7 Jul 06, 2022 9:49:05 PM RU Configuration: 106/53 RU Configuration: 106/53 KEYSIGHT Input: RF
Coupling: D
Align: Auto KEYSIGHT Input: RF
Coupling t
Align: Auto Ref Lvi Offset 0.50 dB Ref Level 21.50 dBm Ref Lvl Offset 0.50 dB Ref Level 21.50 dBm nle/Div 10 dB -3.12 dE many with the Video BW 9.1 kHz Video BW 9.1 kHz Span 25.74 MHz p 8.40 ms (1001 pts) 1 9 Jul 06, 2022 10:08:56 PM 1 9 Jul 06, 2022 9:48:21 PM 

