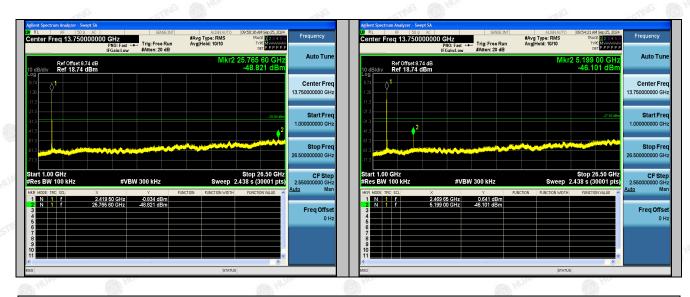
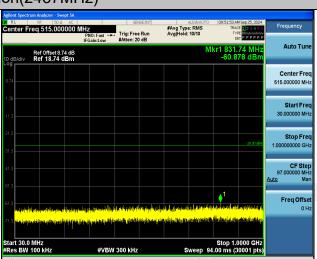


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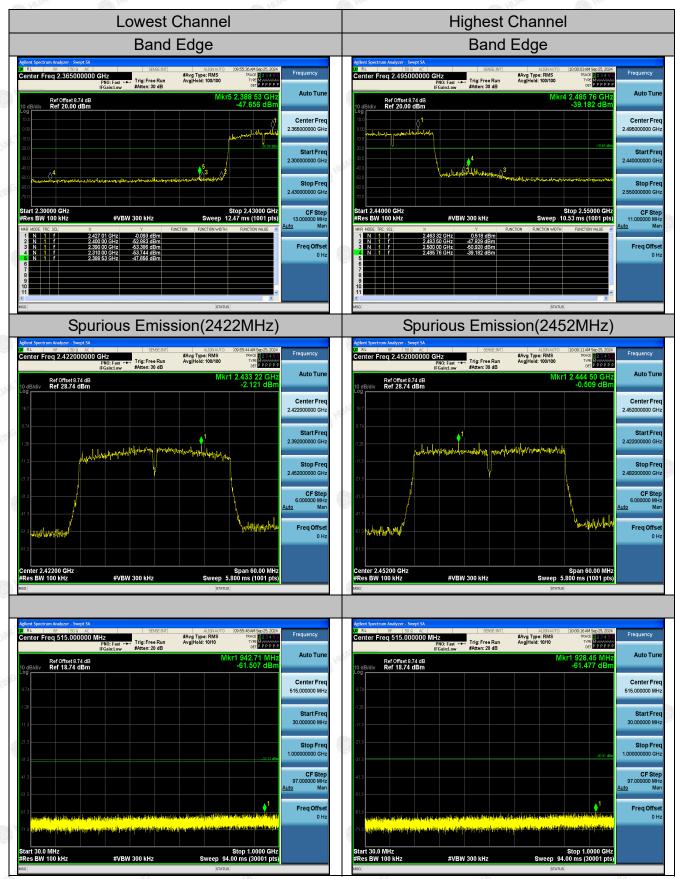
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HST FIF

802.11n (HT40) Modulation



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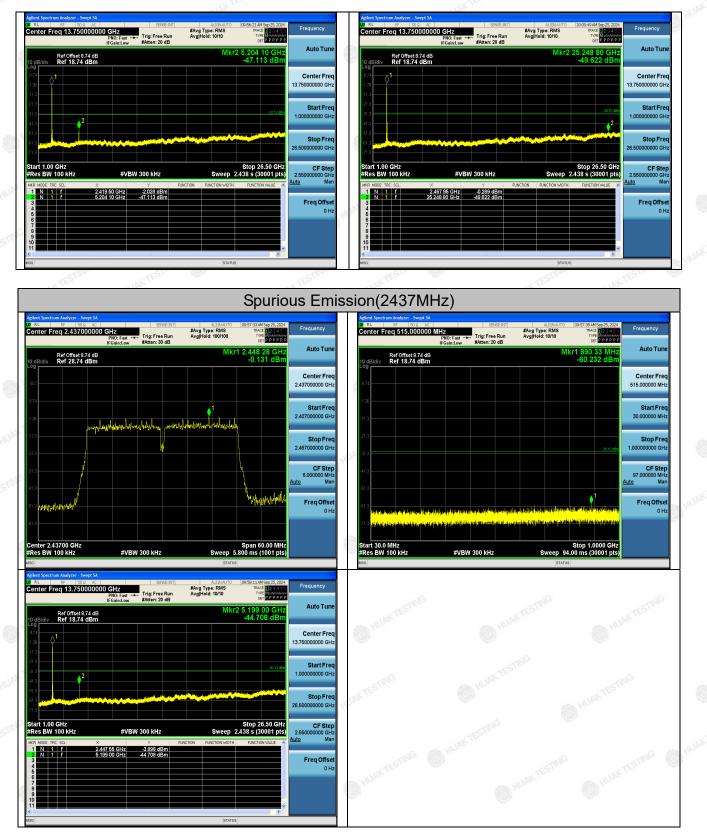
Page 63 of 119

Report No.: HK2409235493-1E

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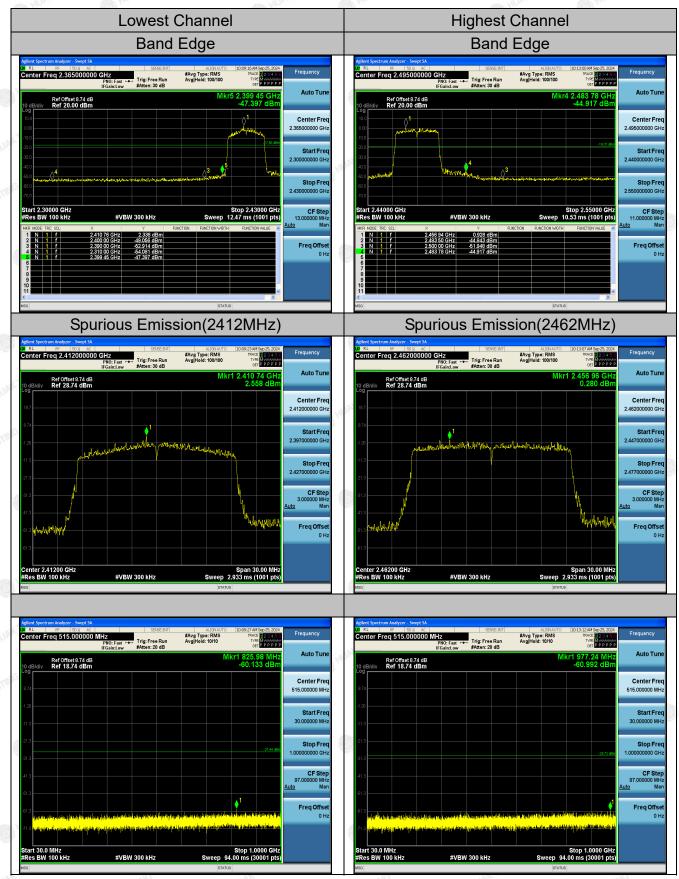
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J,

802.11ax (HT20) Modulation



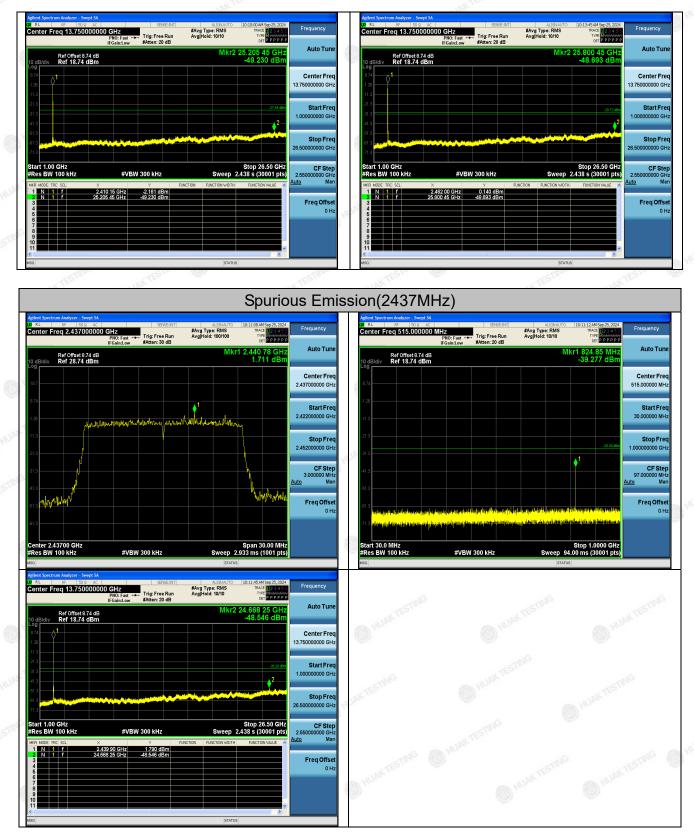
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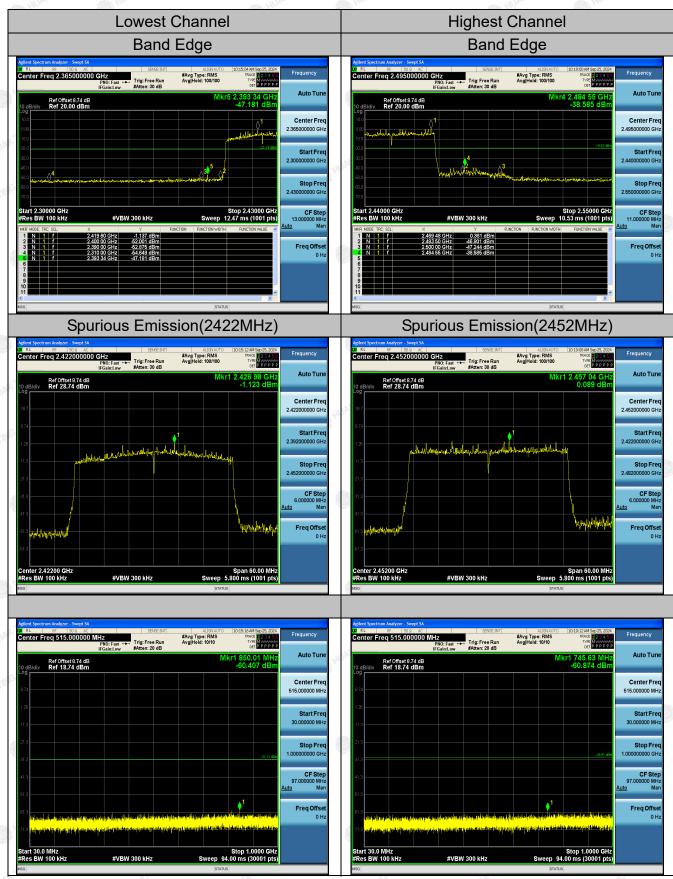
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FICATION

802.11ax (HT40) Modulation



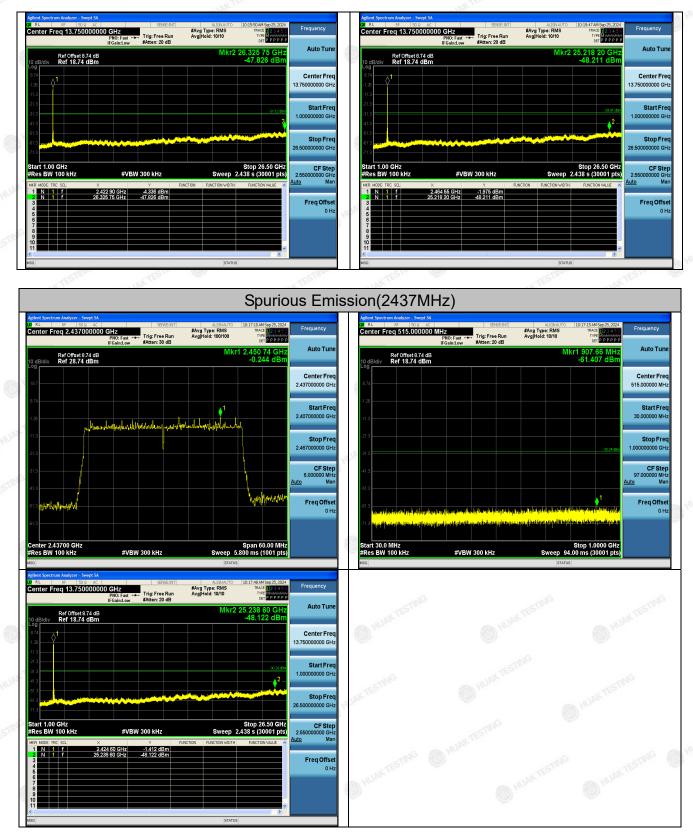
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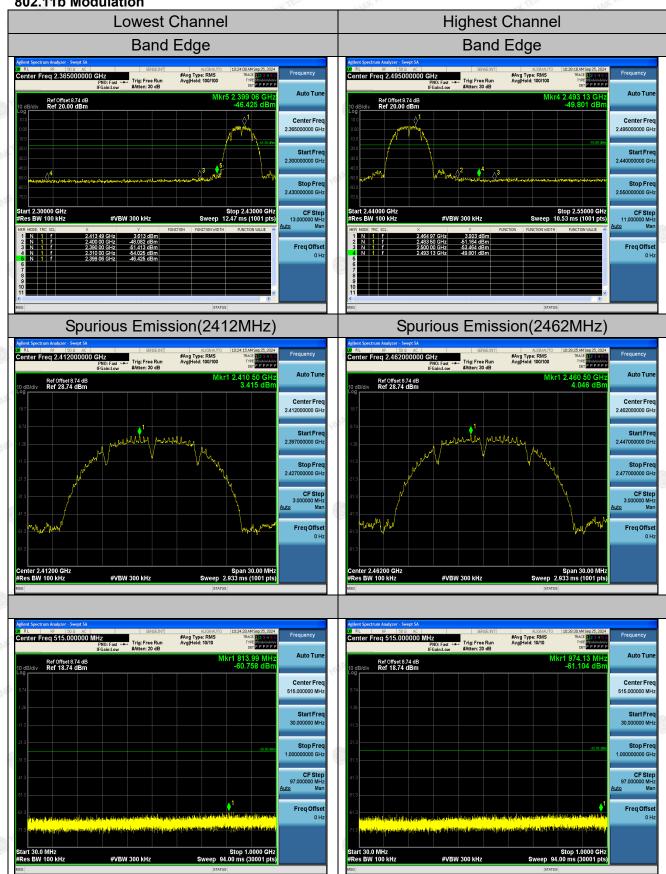


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Chain 2 802.11b Modulation



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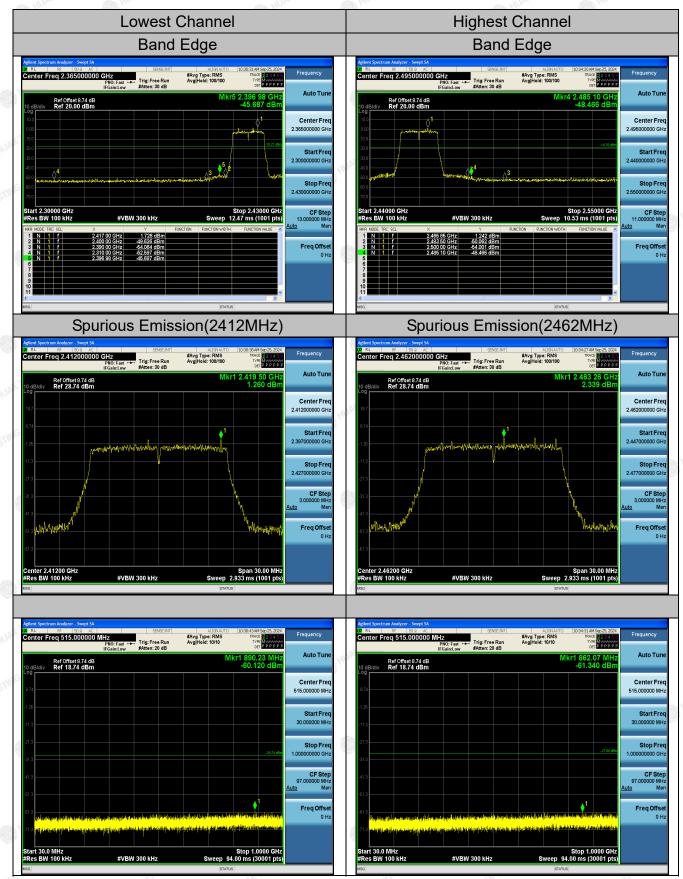
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J,

802.11g Modulation



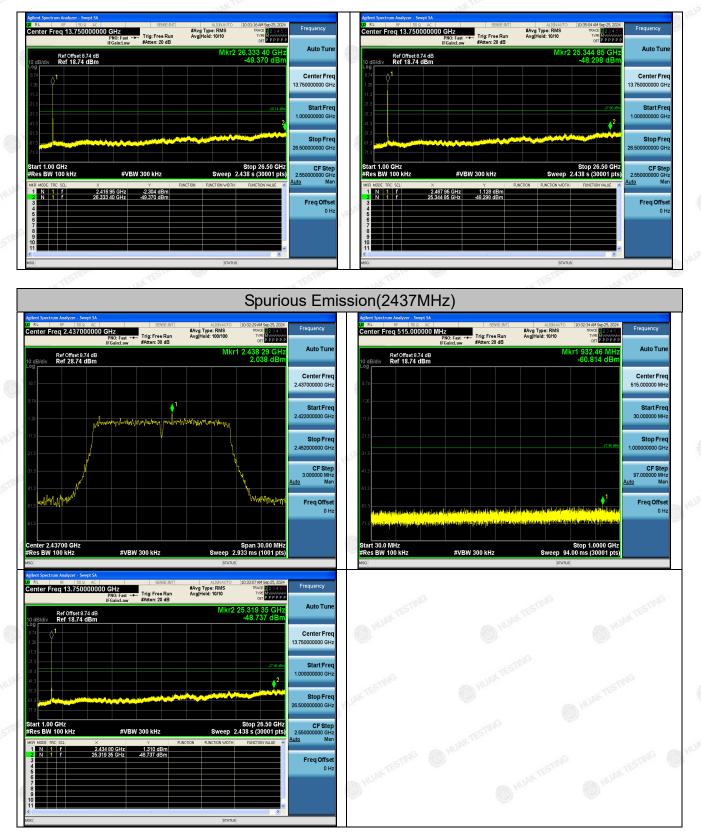
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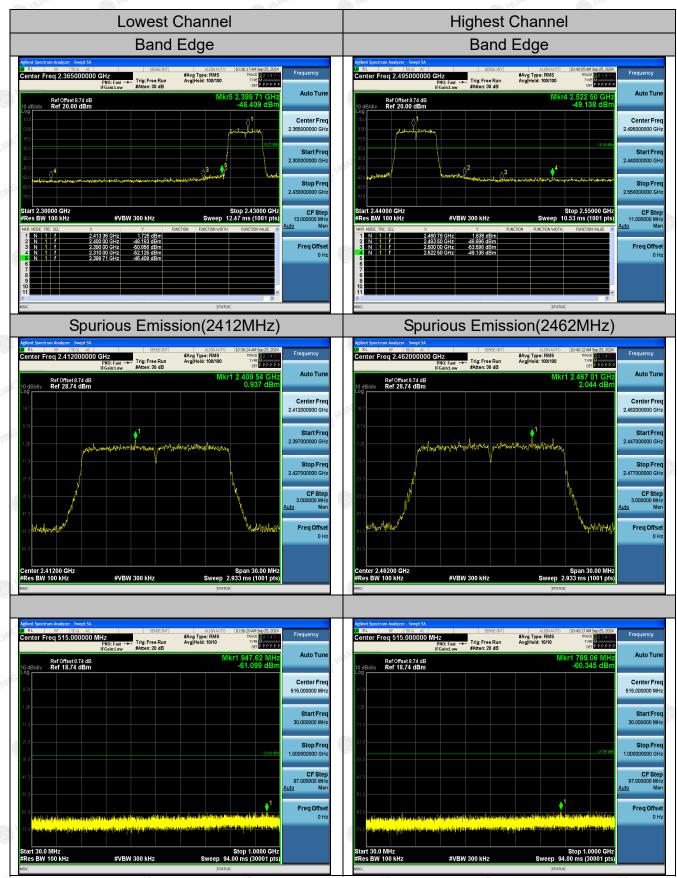
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FICATION

802.11n (HT20) Modulation



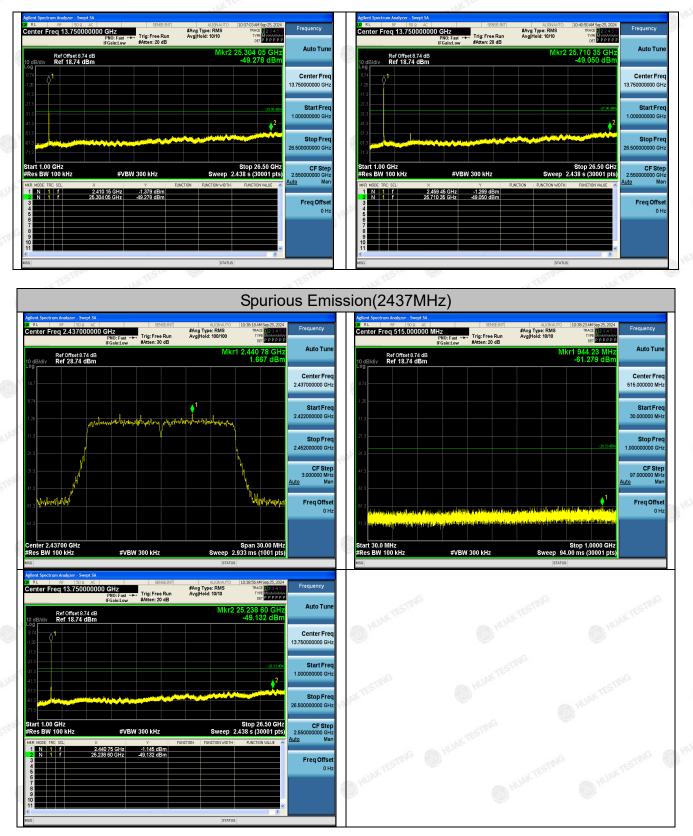
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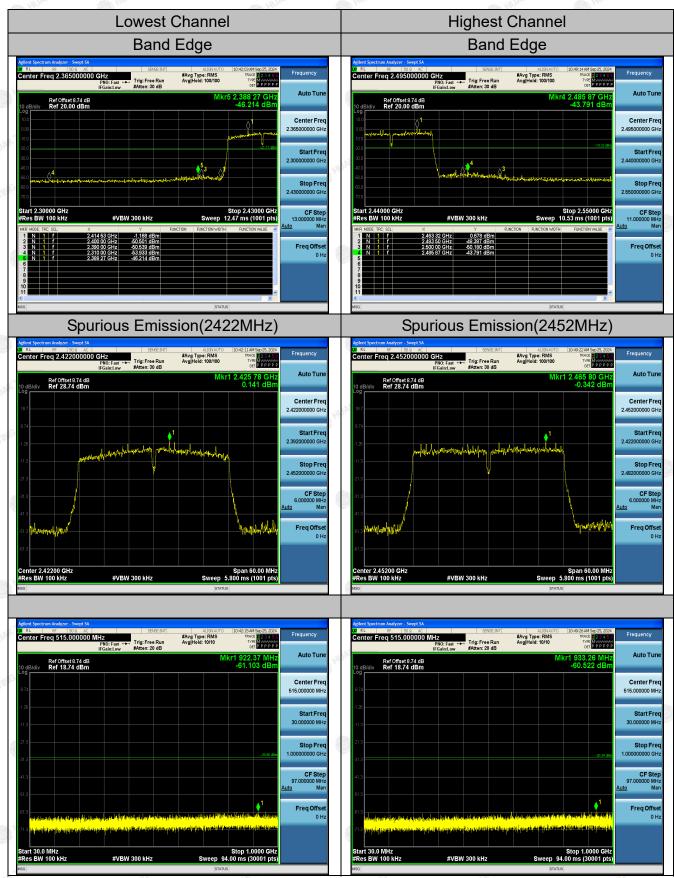
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HEAT ⊢

802.11n (HT40) Modulation



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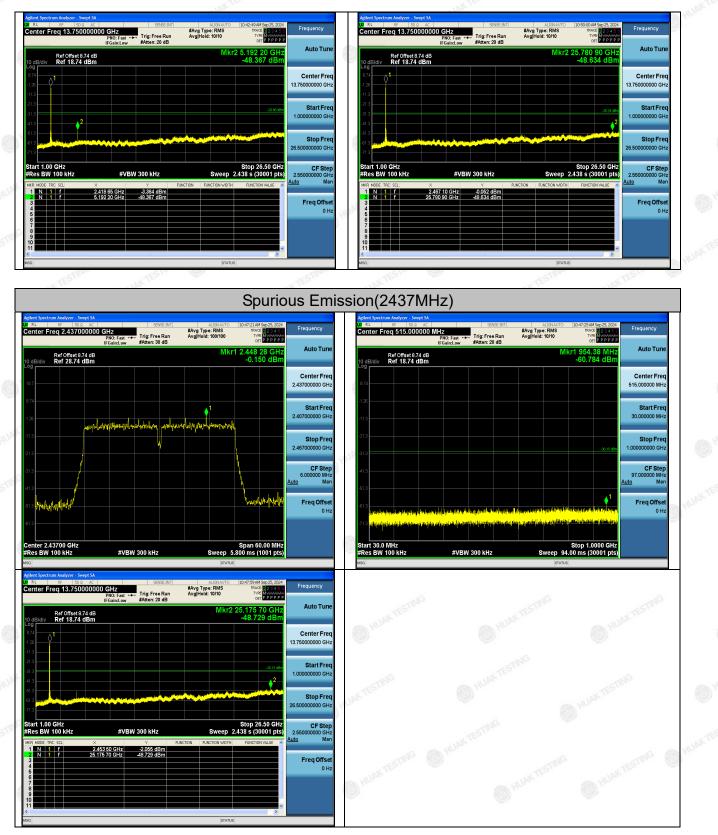
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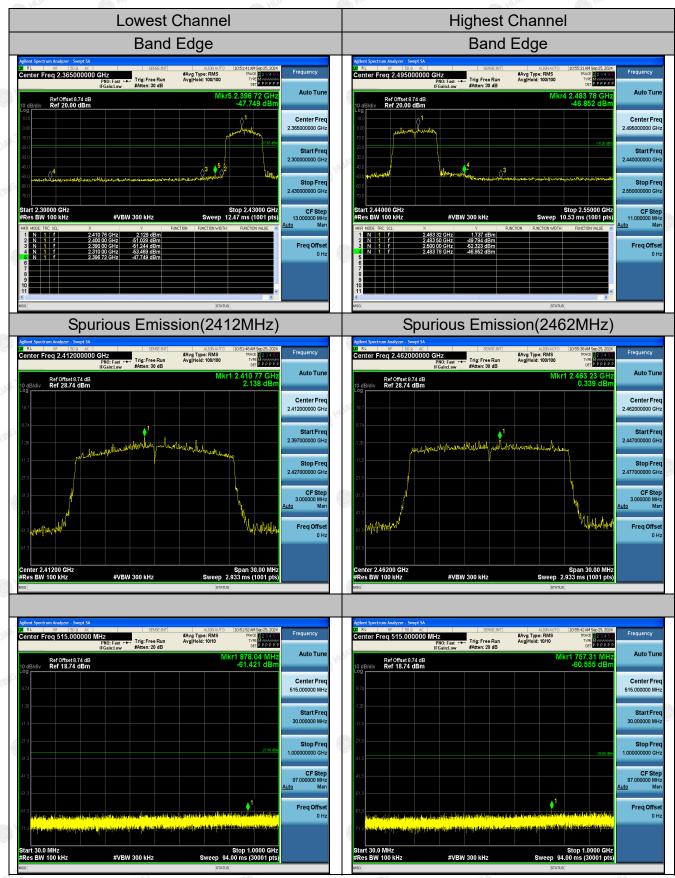
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J,

802.11ax (HT20) Modulation



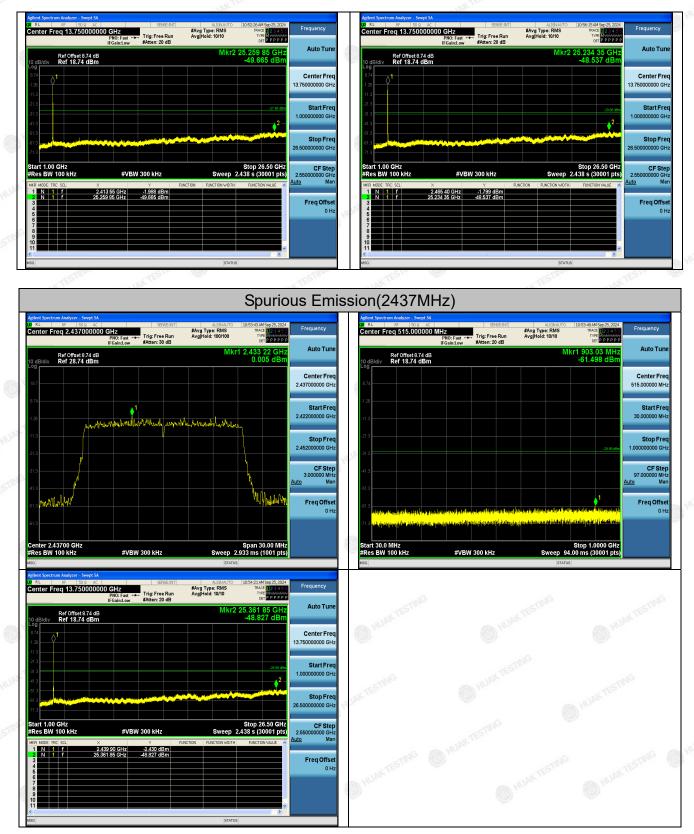
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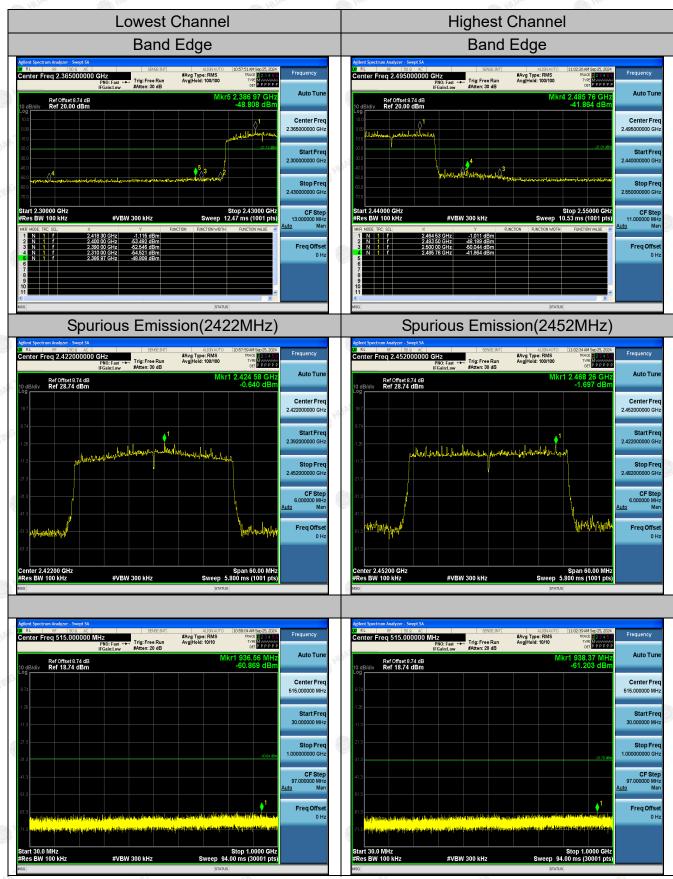
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FICATION

802.11ax (HT40) Modulation



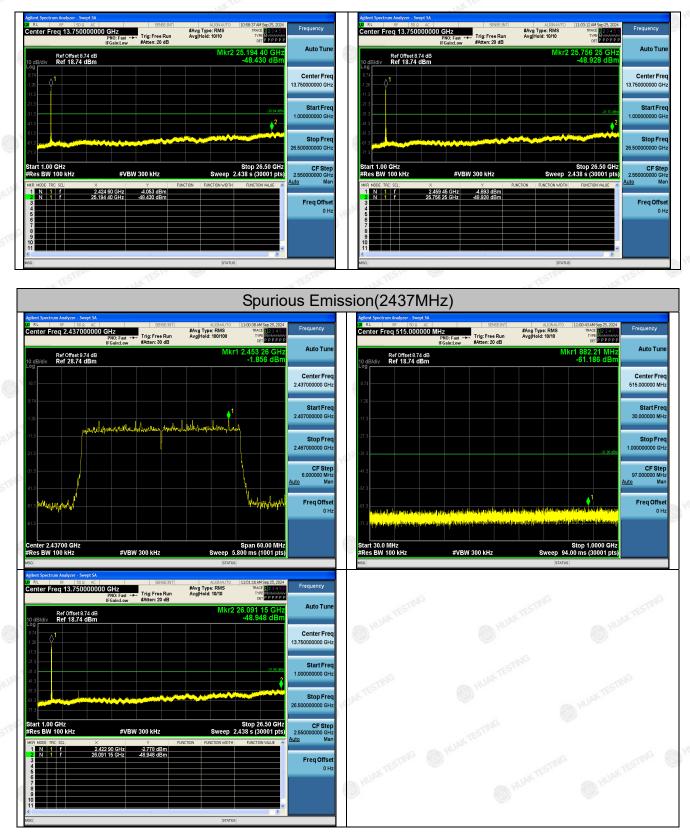
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HUAK TESTING

4.6. Radiated Spurious Emission Measurement

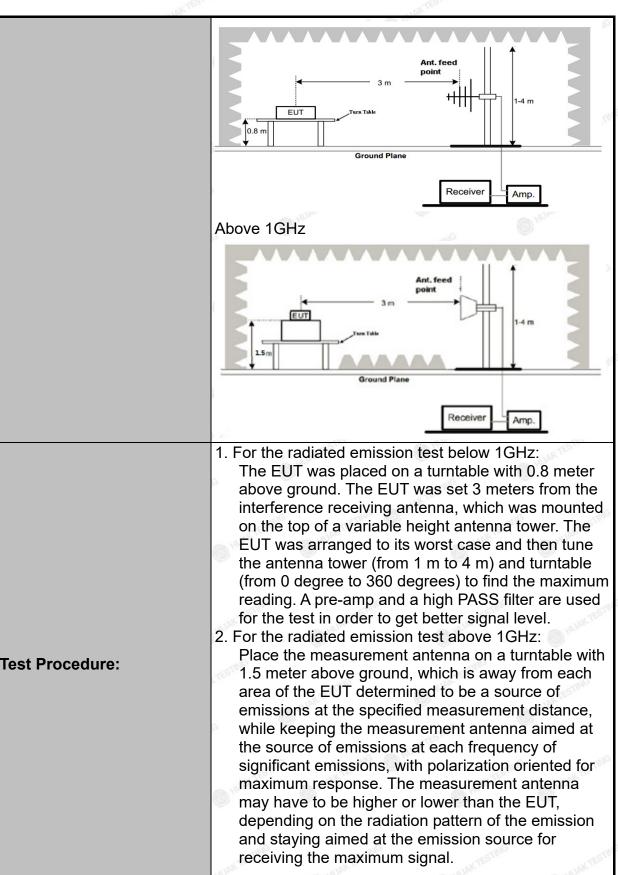
4.6.1. Test Specification

Test Requirement:	FCC Part15	C Sectio	n 1	5.209	TESTI	ſG	TES	
Test Method:	ANSI C63.10: 2013						O HUAN	
Frequency Range:	9 kHz to 25 GHz							
Measurement Distance:	3 m			A HU	HUAKTE		TESTING	
Antenna Polarization:	Horizontal & Vertical					0	HOUR .	
Operation mode:	Transmitting mode with modulation							
	Frequency	Detector		RBW	VBW	Remark		
	9kHz- 150kHz	Quasi-pea		200Hz	1kHz		i-peak Value	
Receiver Setup:	2 150kHz- 30MHz	Quasi-pe	ak	9kHz	30kHz	Quas	i-peak Value	
	30MHz-1GHz	Quasi-pe	ak	120KHz	300KHz	Quas	i-peak Value	
	Above 1GHz	Peak	TING	1MHz	3MHz	-	eak Value	
	Above IGH2	Peak		1MHz	10Hz	Ave	rage Value	
	Frequency			Field Strength		Measurement		
	SES In	-		(microvolts/meter)		Distance (meters)		
	0.009-0.490			2400/F(KHz)		300		
	0.490-1.705			24000/F(KHz) 30		30 30		
	30-88			100		9	3	
	88-216		-	150		3		
Limit:	216-960			200		STING	3 155	
	Above 960			500	HUAK		3	
	Frequency		Field Strength (microvolts/meter		Measure Distan (mete	се	Detector	
	Above 1GHz	A HUAK I	500		HUAK 3		Average	
			5000		3		Peak	
	For radiated	emissior	ns 3		0MHz RX Ante	:nna)↑		
Test setup:		Gr		Plane	Receive			
	30MHz to 10	GHz						

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	 The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured;
nula KTES	 (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement. 6. For average measurement: VBW = 10 Hz, when duty
°	cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test results:	PASS

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4.6.2. Test Instruments

Radiated Emission Test Site (966)										
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due					
Spectrum analyzer	Agilent	N9020A	HKE-025	Feb. 20, 2024	Feb. 19, 2025					
Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	Feb. 19, 2025					
Preamplifier	EMCI	EMC051845 S	HKE-006	Feb. 20, 2024	Feb. 19, 2025					
Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	Feb. 19, 2025					
Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	Feb. 19, 2025					
6dB Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	Feb. 19, 2025					
EMI Test Receiver	Rohde & () Schwarz	ESR-7	HKE-010	Feb. 20, 2024	Feb. 19, 2025					
Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	Feb. 20, 2026					
Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	Feb. 20, 2026					
Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	Feb. 20, 2026					
EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A					
RSE Test Software	Tonscend	JS36-RSE 5. 0.0	HKE-184	N/A	N/A					

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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4.6.3. Test Data

Please refer to following diagram for individual Below 1GHz

All the test modes completed for test. only the worst result of reported as below:



Sus	Suspected List									
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
NC). [MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	57.187187	-13.76	28.55	14.79	40.00	25.21	100	197	Horizontal	
2	123.21321	-16.28	35.80	19.52	43.50	23.98	100	295	Horizontal	
3	148.45845	-18.14	49.34	31.20	43.50	12.30	100	79	Horizontal	
4	210.60060	-14.88	49.41	34.53	43.50	8.97	100	208	Horizontal	
5	282.45245	-12.56	37.91	25.35	46.00	20.65	100	65	Horizontal	
6	459.16916	-8.94	38.82	29.88	46.00	16.12	100	253	Horizontal	

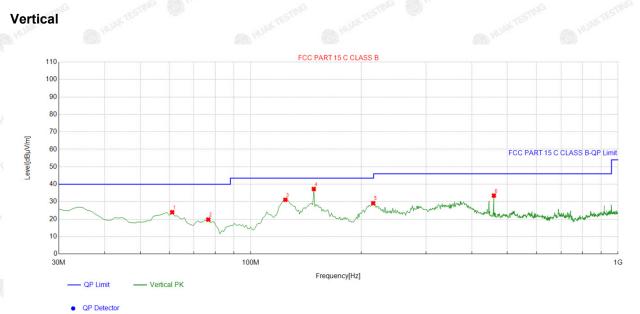
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

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EICATIO



Suspected List

	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	61.071071	-13.82	37.78	23.96	40.00	16.04	100	4	Vertical	
2	76.606607	-17.96	37.70	19.74	40.00	20.26	100	32	Vertical	
3	124.18418	-16.66	47.74	31.08	43.50	12.42	100	138	Vertical	
4	148.45845	-18.14	55.42	37.28	43.50	6.22	100	113	Vertical	
5	215.45545	-14.72	43.87	29.15	43.50	14.35	100	359	Vertical	
6	459.16916	-8.94	42.44	33.50	46.00	12.50	100	357	Vertical	

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

2	Frequency (MH	z)	Level@3m (dBµV/m)) Lim	Limit@3m (dBµV/m)			
	O HURANTES O		- WOAKTES	0				
			o 🔍 🛄 🛶	-0				
		NKTESIN		NK TESTIN				
	mG - string	HU	ING CIMG	(C) 1 ²	ING	STING		

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

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