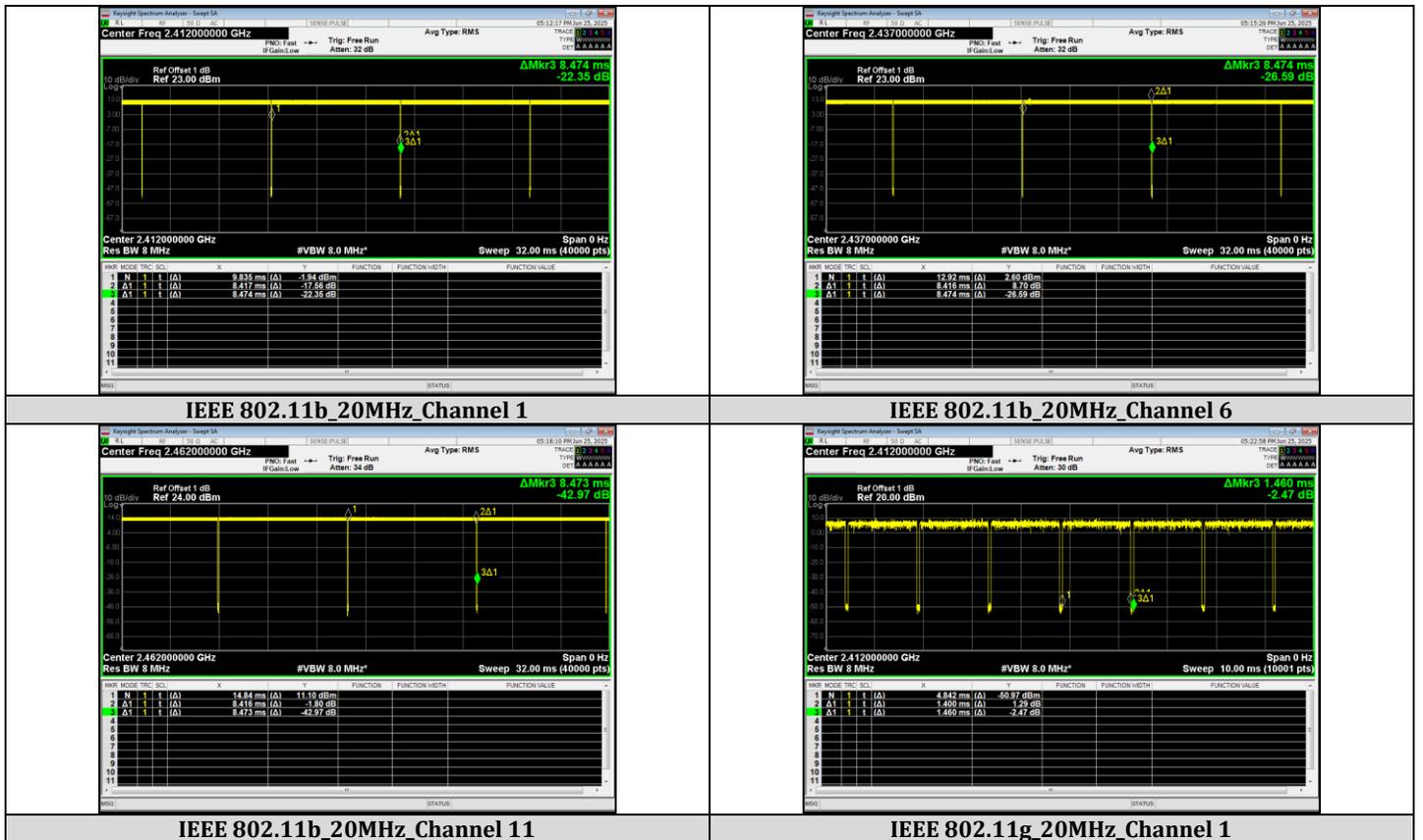


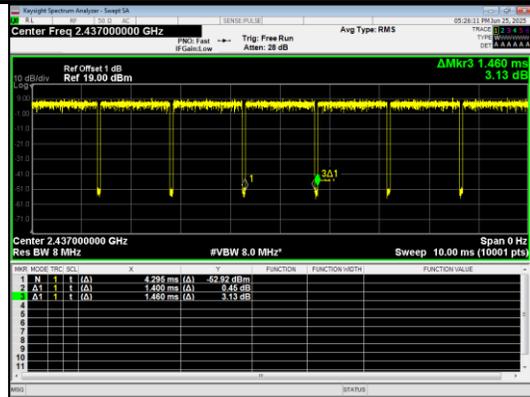


### Duty Cycle Test Result

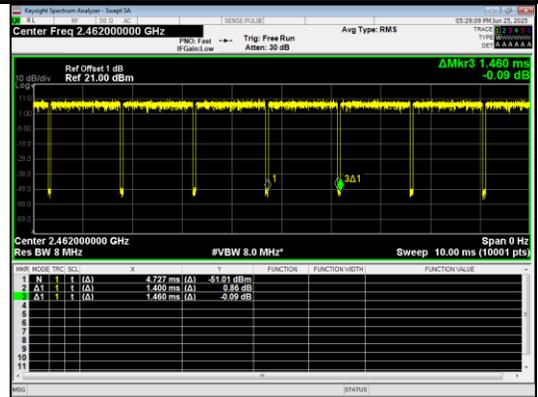
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11b	1	1	1	8.417	8.474	99.33	0.9933	0.0292	0.1188
		6		8.416	8.474	99.32	0.9932	0.0296	0.1188
		11		8.416	8.473	99.33	0.9933	0.0292	0.1188
IEEE 802.11g		1		1.400	1.460	95.89	0.9589	0.1823	0.7143
		6		1.400	1.460	95.89	0.9589	0.1823	0.7143
		11		1.400	1.460	95.89	0.9589	0.1823	0.7143
IEEE 802.11n_20	MCS 0	1		1.184	1.244	95.11	0.9511	0.2177	0.8446
		6		1.184	1.244	95.11	0.9511	0.2177	0.8446
		11		1.184	1.244	95.11	0.9511	0.2177	0.8446
IEEE 802.11n_40		3		0.589	0.649	90.69	0.9069	0.4244	1.6978
		6		0.589	0.650	90.63	0.9063	0.4273	1.6978
		9		0.589	0.650	90.63	0.9063	0.4273	1.6978

### Test Graphs

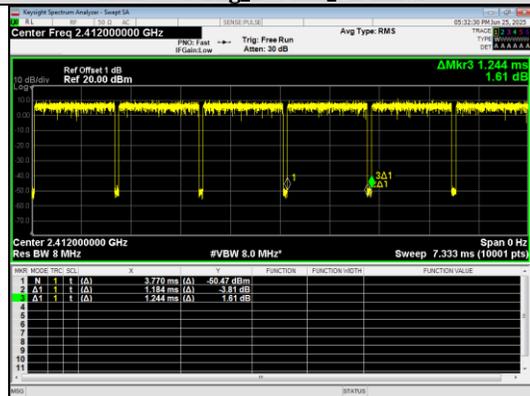




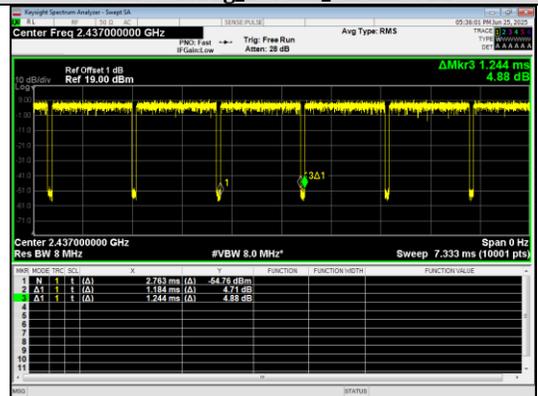
IEEE 802.11g 20MHz\_Channel 6



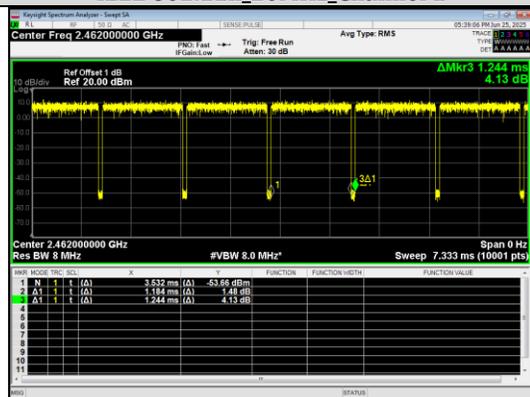
IEEE 802.11g 20MHz\_Channel 11



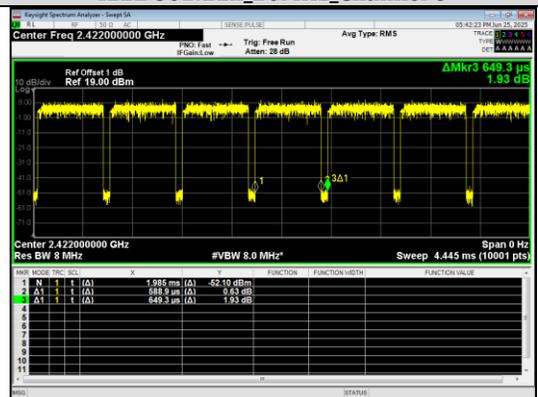
IEEE 802.11n 20MHz\_Channel 6



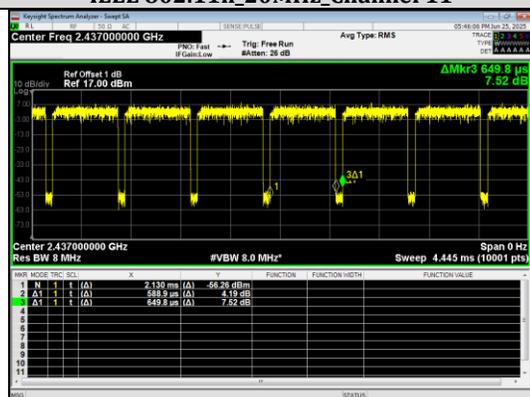
IEEE 802.11n 20MHz\_Channel 11



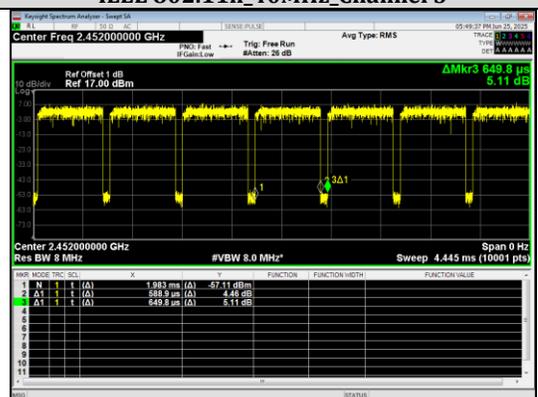
IEEE 802.11n 20MHz\_Channel 1



IEEE 802.11n 20MHz\_Channel 6



IEEE 802.11n 40MHz\_Channel 11



IEEE 802.11n 40MHz\_Channel 3

IEEE 802.11n 40MHz\_Channel 6

IEEE 802.11n 40MHz\_Channel 9



### Conducted Output Power

#### Test Result

#### Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	15.14	≤30	PASS
	6	15.24	≤30	PASS
	11	16.57	≤30	PASS
IEEE 802.11g	1	16.30	≤30	PASS
	6	15.99	≤30	PASS
	11	17.40	≤30	PASS
IEEE 802.11n_20	1	16.76	≤30	PASS
	6	16.32	≤30	PASS
	11	17.84	≤30	PASS
IEEE 802.11n_40	3	17.46	≤30	PASS
	6	17.05	≤30	PASS
	9	17.11	≤30	PASS

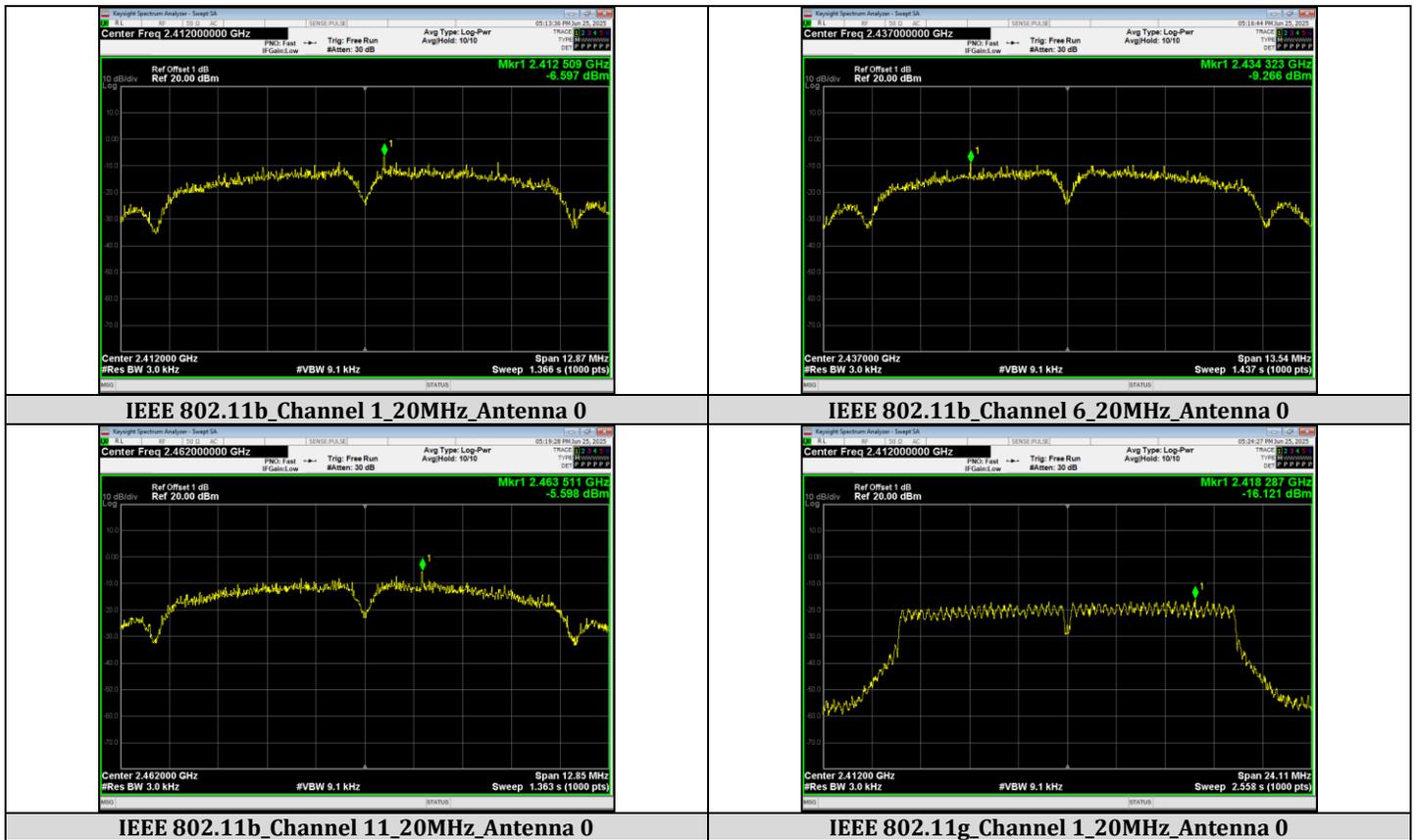


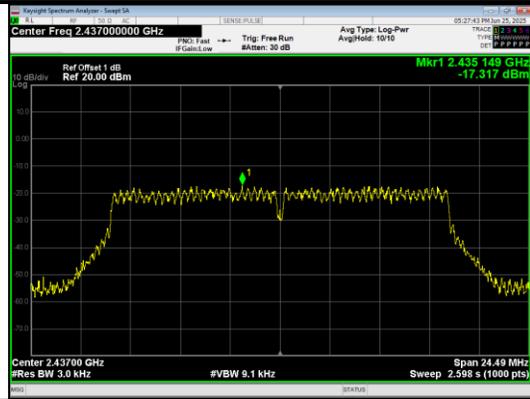
# Power Spectral Density

## Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-6.597	≤8	PASS
	6	-9.266		PASS
	11	-5.598		PASS
IEEE 802.11g	1	-16.121		PASS
	6	-17.317		PASS
	11	-14.834		PASS
IEEE 802.11n_20	1	-15.257		PASS
	6	-15.710		PASS
	11	-14.596		PASS
IEEE 802.11n_40	3	-17.183		PASS
	6	-17.604		PASS
	9	-17.429		PASS

## Test Graphs





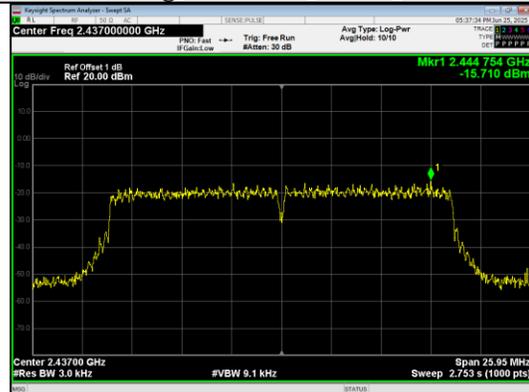
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



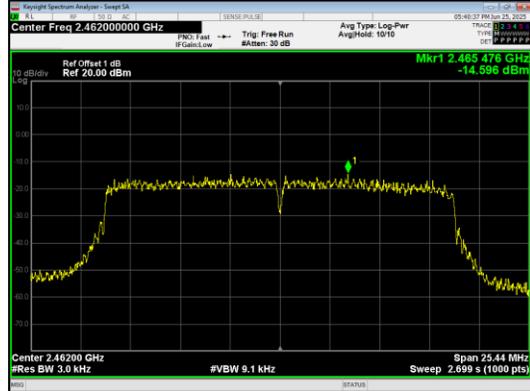
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



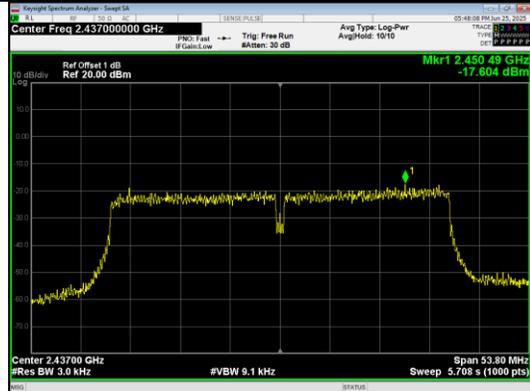
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



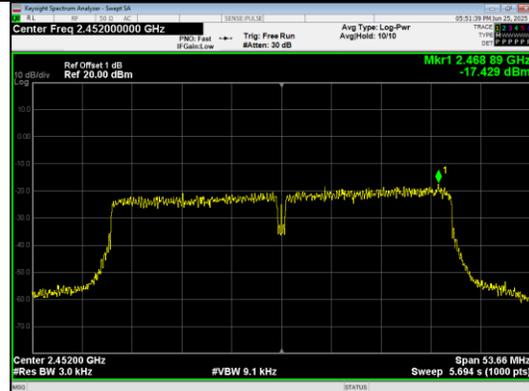
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



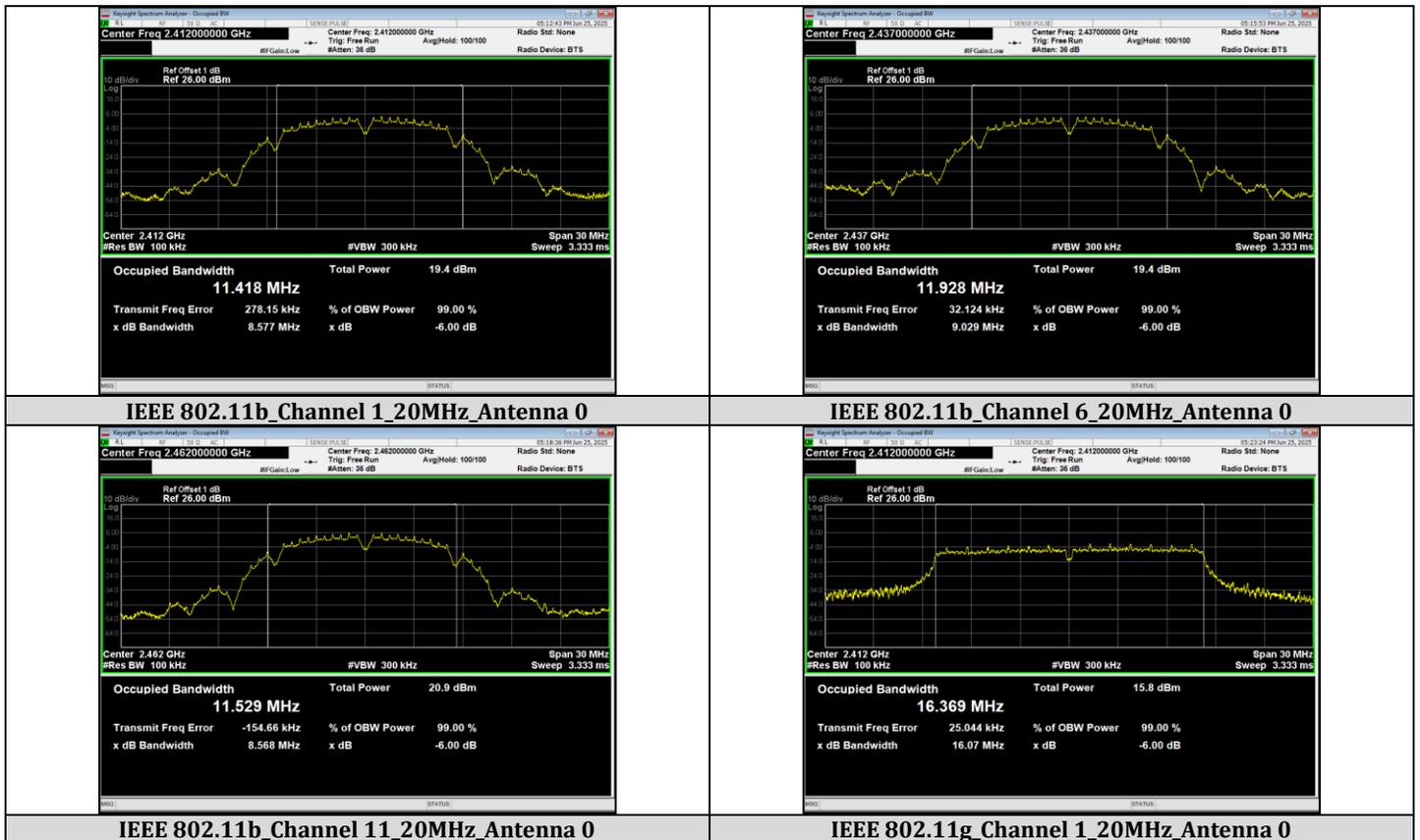
IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0

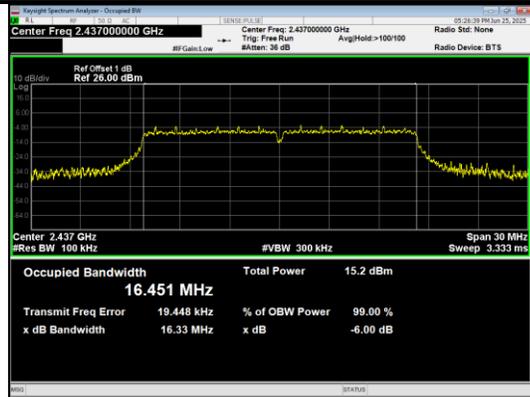
### 6dB Bandwidth

#### Test Result

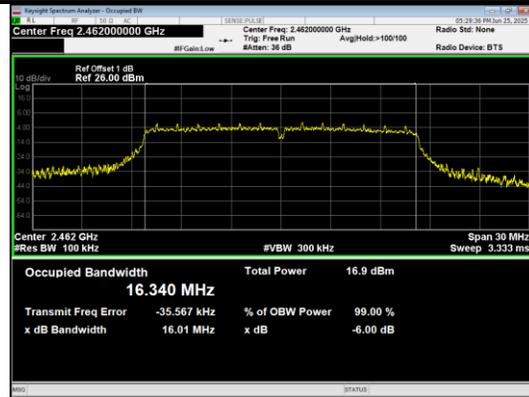
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	8.577	≥0.5	PASS
	6		2437	9.029		PASS
	11		2462	8.568		PASS
IEEE 802.11g	1		2412	16.07		PASS
	6		2437	16.33		PASS
	11		2462	16.01		PASS
IEEE 802.11n_20	1		2412	16.69		PASS
	6		2437	17.30		PASS
	11		2462	16.96		PASS
IEEE 802.11n_40	3		2422	31.30		PASS
	6		2437	35.87		PASS
	9		2452	35.77		PASS

#### Test Graphs





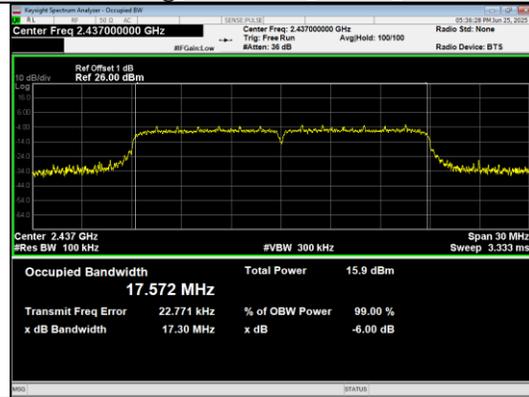
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



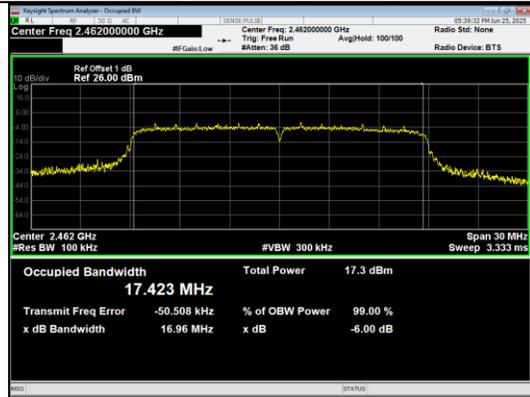
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



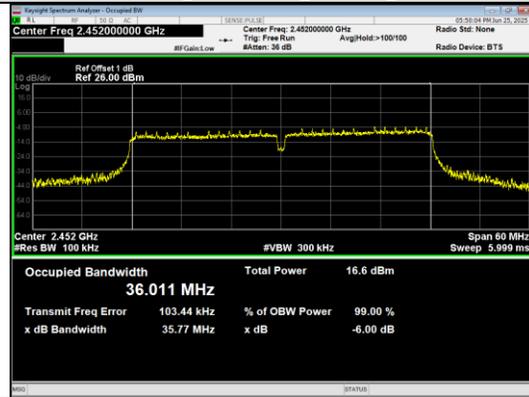
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



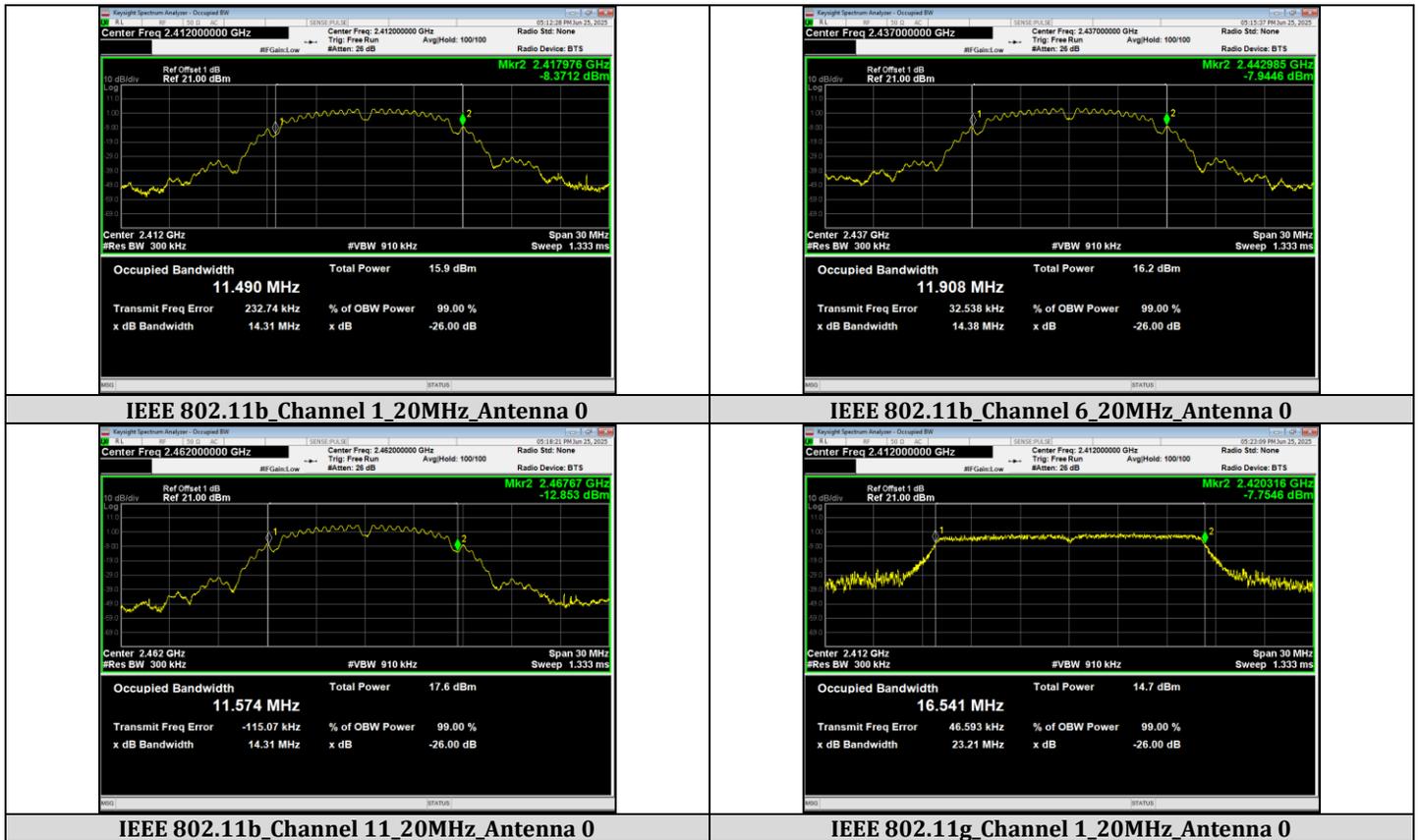
IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0



**99% Bandwidth  
Test Result**

Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	11.490
	6		2437	11.908
	11		2462	11.574
IEEE 802.11g	1		2412	16.541
	6		2437	16.675
	11		2462	16.506
IEEE 802.11n_20	1		2412	17.574
	6		2437	17.678
	11		2462	17.499
IEEE 802.11n_40	3		2422	35.627
	6		2437	36.290
	9		2452	36.280

**Test Graphs**





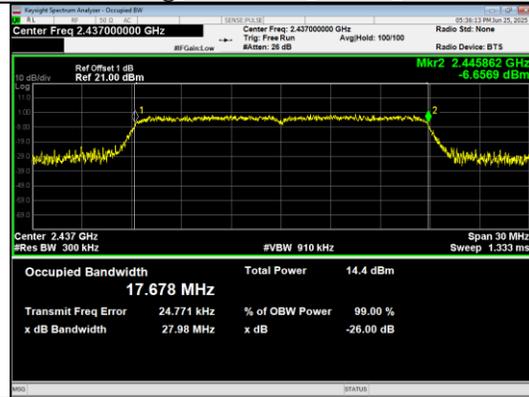
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



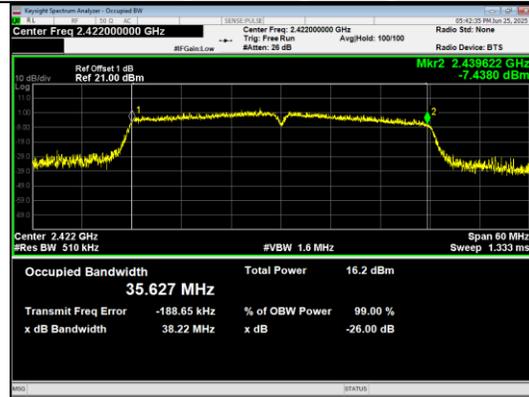
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



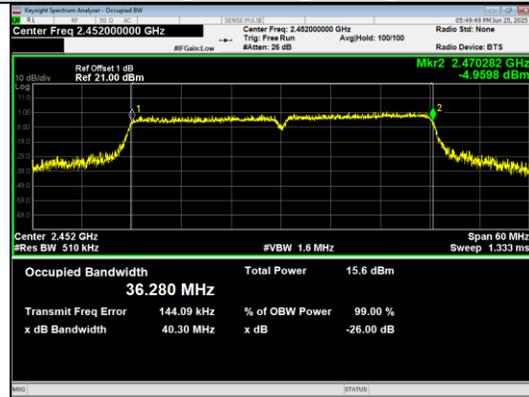
IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0



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IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0

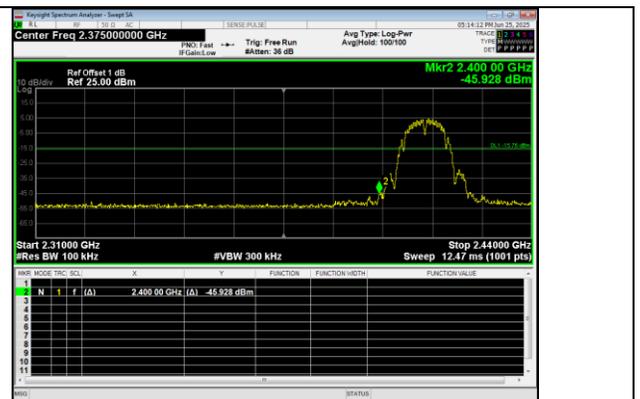
### Conducted Out Of Band Emission Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2400.00	-45.928	-15.76	-30.168	PASS
			24995.0	-40.108	-15.76	-24.349	PASS
	6		24405.1	-39.851	-15.9	-23.951	PASS
	11		2483.50	-52.927	-14.26	-38.667	PASS
			24287.7	-39.799	-14.26	-25.539	PASS
IEEE 802.11g	1		2397.88	-33.209	-21.58	-11.629	PASS
			2400.00	-34.280	-21.58	-12.700	PASS
	6		24973.8	-39.477	-21.58	-17.897	PASS
	11		24976.3	-39.721	-22.23	-17.491	PASS
			2483.50	-50.334	-20.52	-29.814	PASS
IEEE 802.11n_20	1	24910.1	-39.671	-20.52	-19.151	PASS	
		2398.79	-31.981	-21.55	-10.431	PASS	
	6	2400.00	-33.999	-21.55	-12.449	PASS	
	11	24919.5	-39.840	-21.55	-18.290	PASS	
		24948.8	-39.325	-22.41	-16.915	PASS	
IEEE 802.11n_40	3	2483.50	-48.966	-20.48	-28.486	PASS	
		24872.6	-39.657	-20.48	-19.177	PASS	
	6	2396.97	-34.386	-22.13	-12.256	PASS	
	9	2400.00	-36.085	-22.13	-13.955	PASS	
		24432.5	-40.185	-22.13	-18.055	PASS	
			24943.8	-38.286	-23.75	-14.536	PASS
			2483.50	-44.908	-23.42	-21.488	PASS
			24343.9	-40.201	-23.42	-16.781	PASS

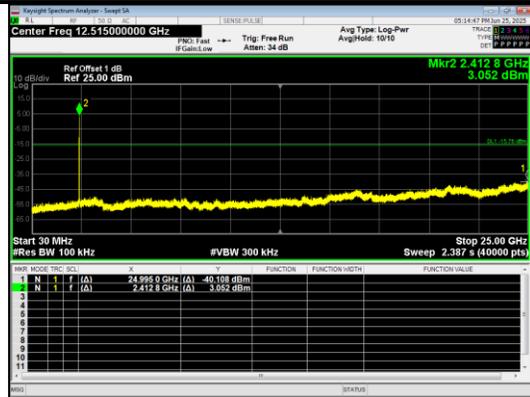
### Test Graphs



**In-Band Reference Level**  
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0



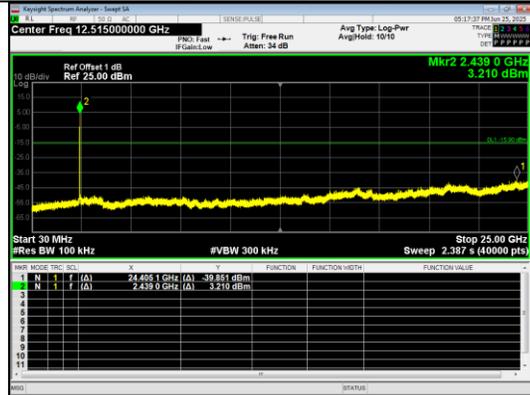
**Out of Band Emission**  
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0



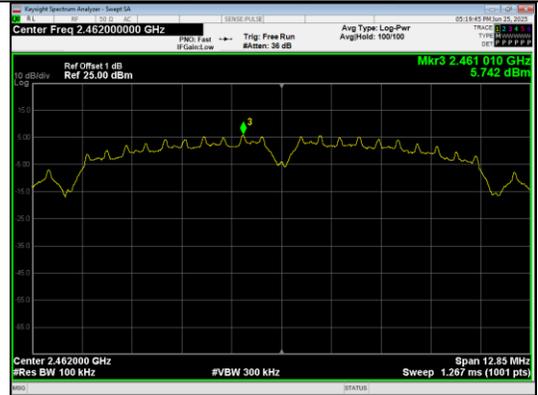
30.0 MHz - 25000.0 MHz  
 IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0



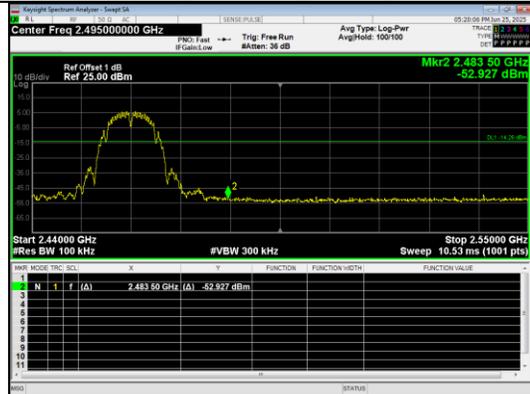
In-Band Reference Level  
 IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0



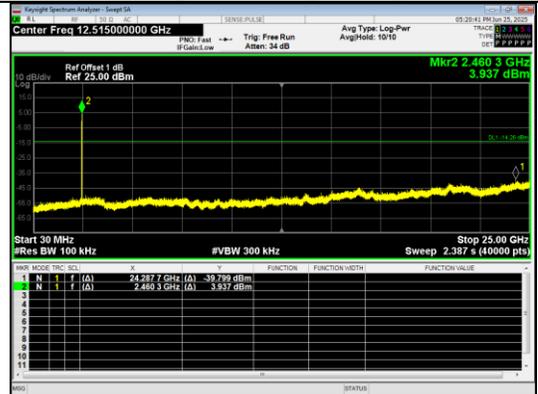
30.0 MHz - 25000.0 MHz  
 IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0



In-Band Reference Level  
 IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



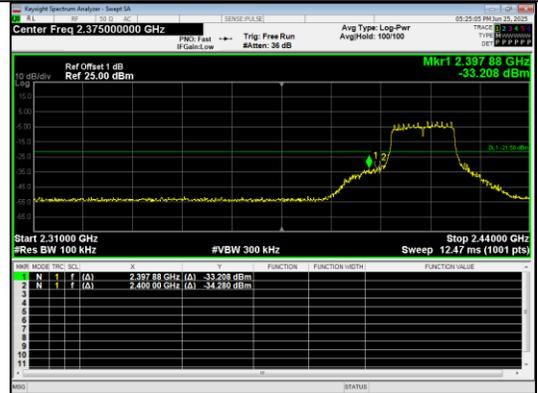
Out Of Band Emission  
 IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



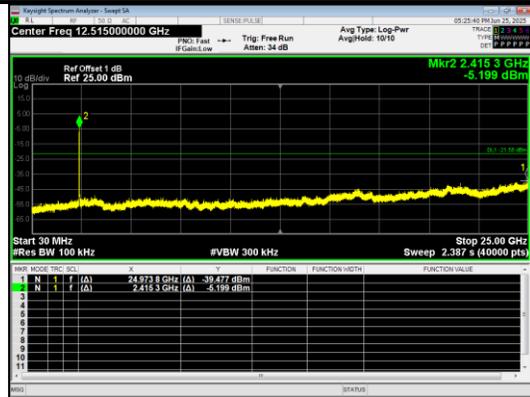
30.0 MHz - 25000.0 MHz  
 IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



In-Band Reference Level  
 IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0

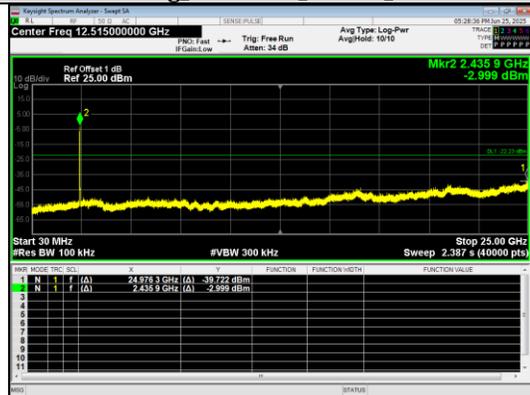


Out Of Band Emission  
 IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0



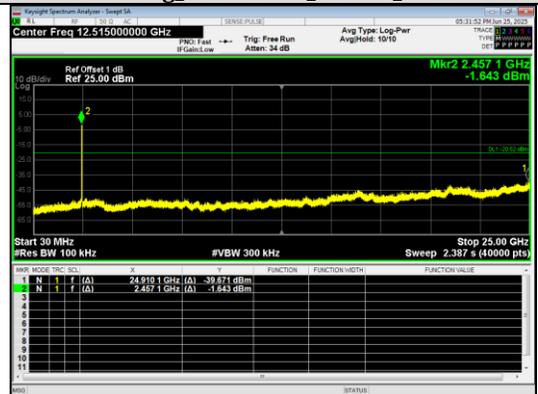
30.0 MHz - 25000.0 MHz  
IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0

In-Band Reference Level  
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0



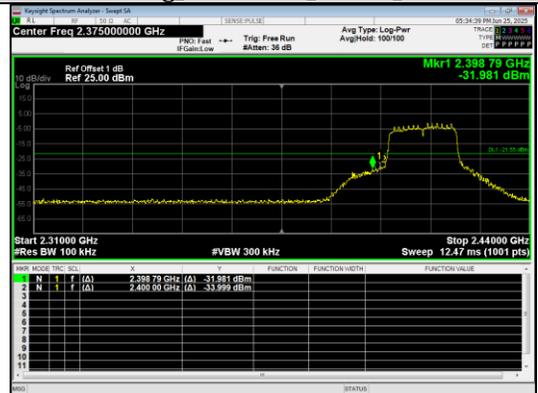
30.0 MHz - 25000.0 MHz  
IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0

In-Band Reference Level  
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0



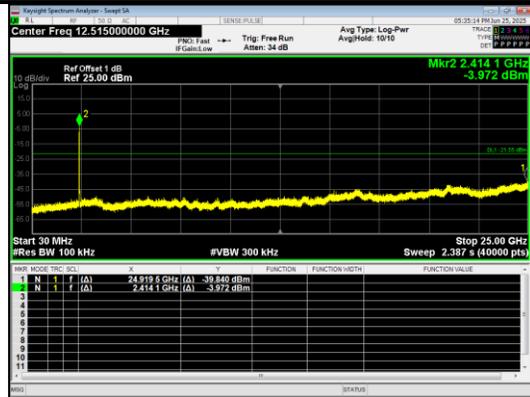
Out Of Band Emission  
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0

30.0 MHz - 25000.0 MHz  
IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0

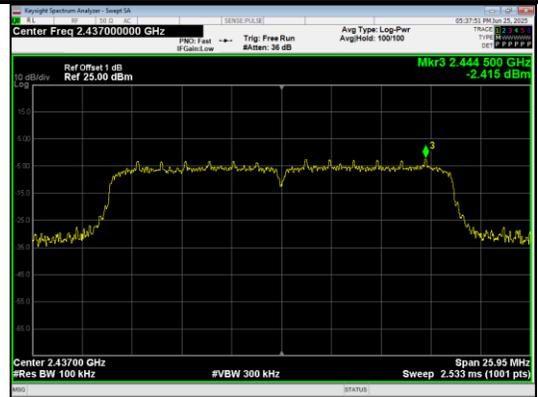


In-Band Reference Level  
IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0

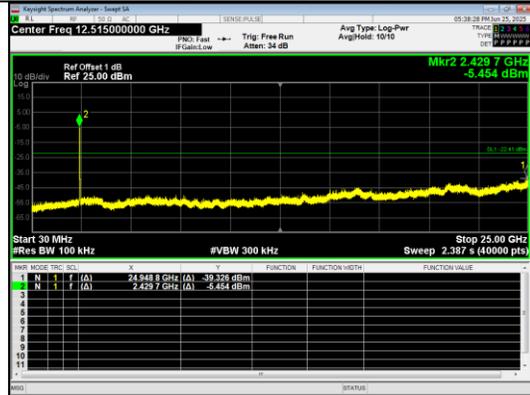
Out Of Band Emission  
IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



**30.0 MHz - 25000.0 MHz  
IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0**



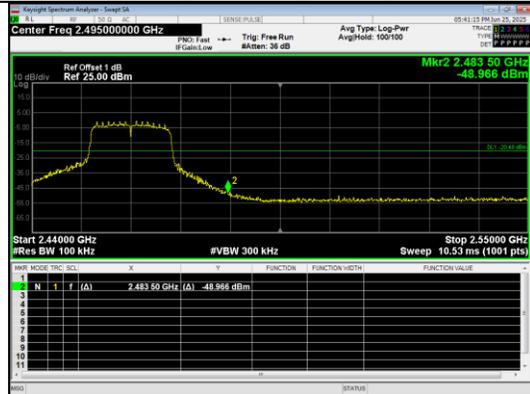
**In-Band Reference Level  
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0**



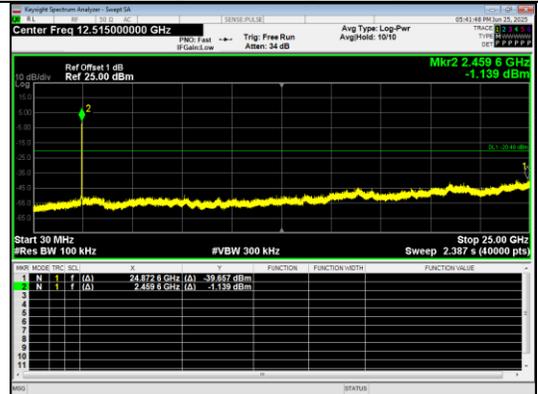
**30.0 MHz - 25000.0 MHz  
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0**



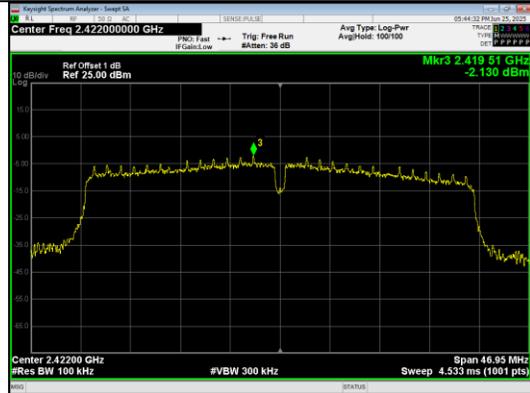
**In-Band Reference Level  
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0**



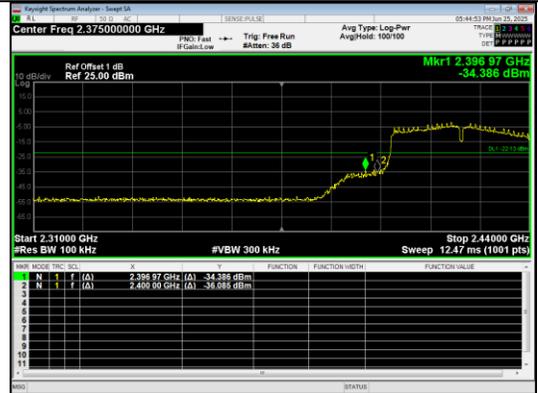
**Out Of Band Emission  
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0**



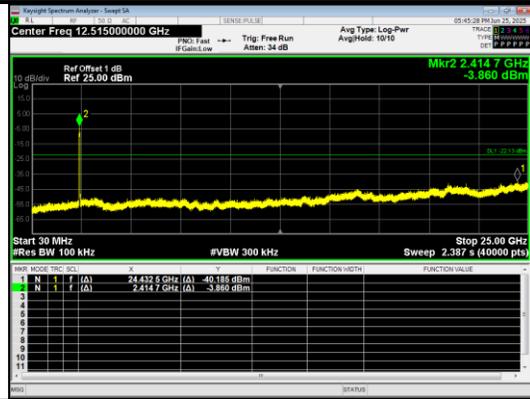
**30.0 MHz - 25000.0 MHz  
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0**



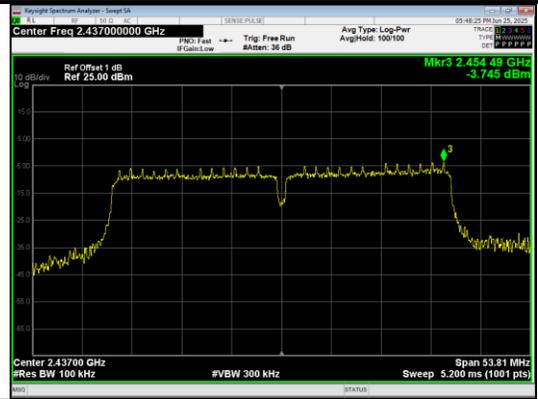
**In-Band Reference Level  
IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0**



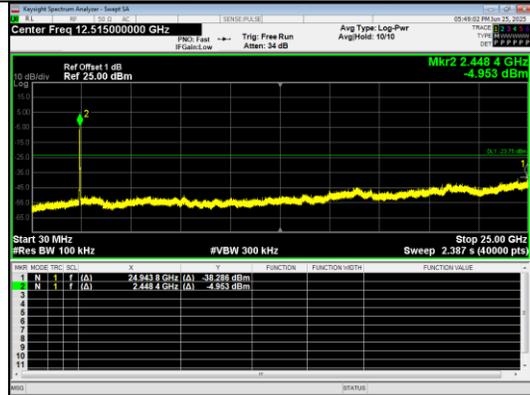
**Out Of Band Emission  
IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0**



30.0 MHz - 25000.0 MHz  
IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0



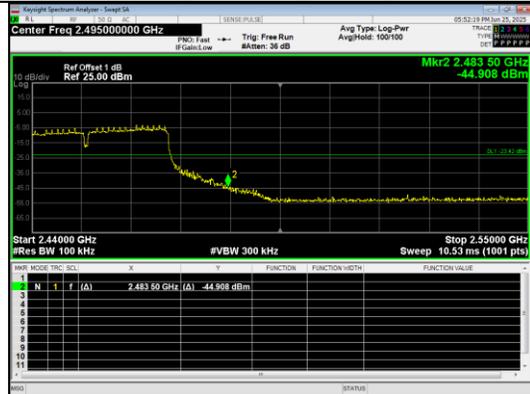
In-Band Reference Level  
IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



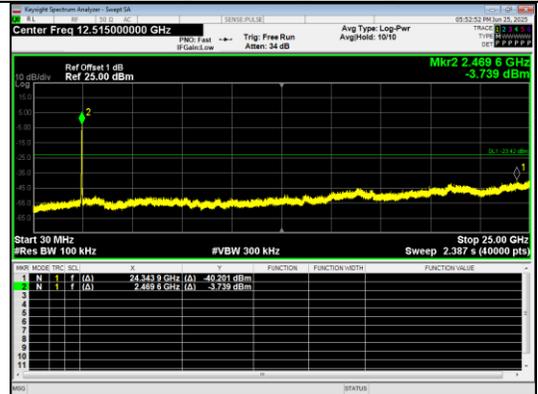
30.0 MHz - 25000.0 MHz  
IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0



In-Band Reference Level  
IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



Out Of Band Emission  
IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0



30.0 MHz - 25000.0 MHz  
IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0

\*\*\*\*\* End of Report \*\*\*\*\*