

Appendix A Conduction Data for 2.4GHz WIFI

A1.Maximum Peak conducted output power

Test Result

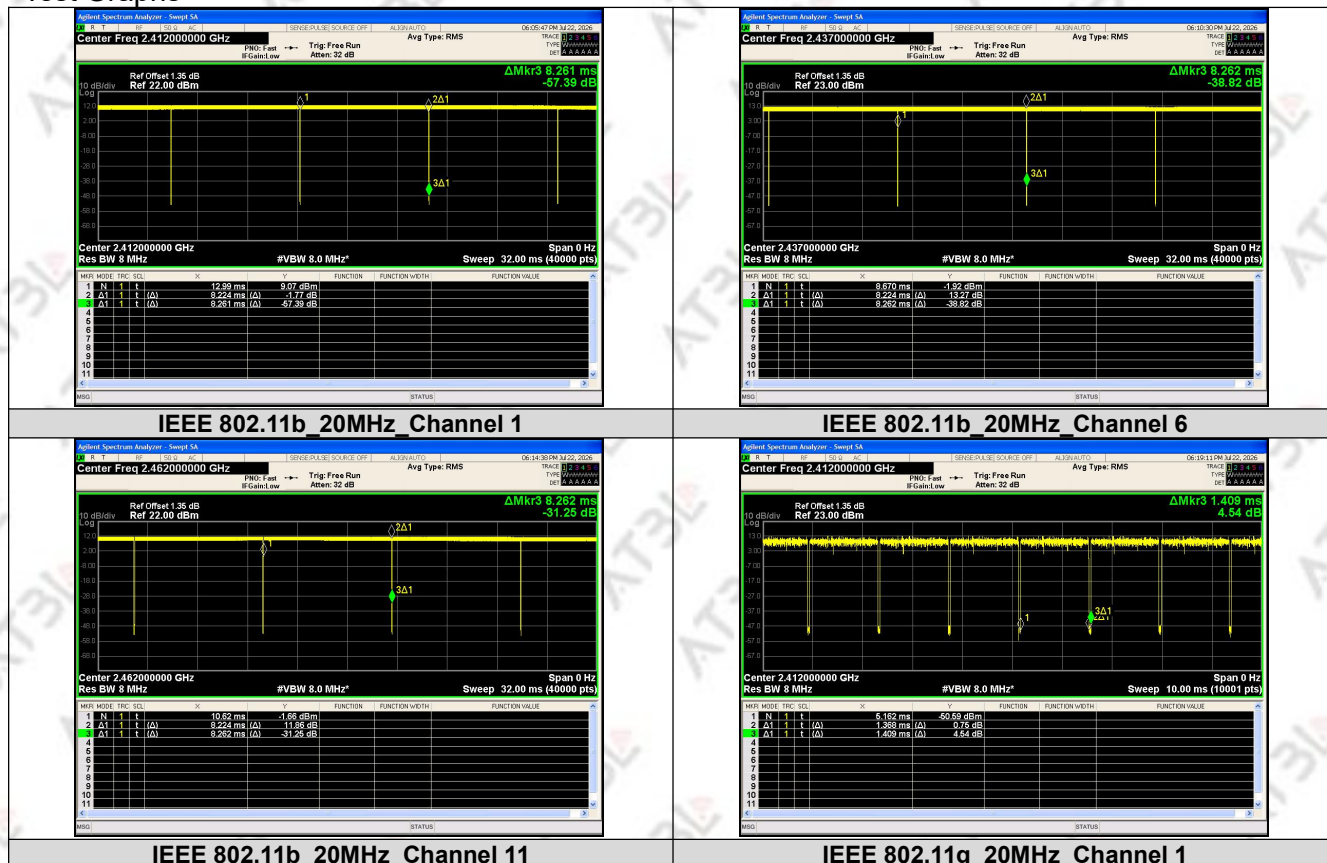
Mode	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	Result
IEEE 802.11b	1	15.34	≤30	PASS
	6	15.30	≤30	PASS
	11	14.86	≤30	PASS
IEEE 802.11g	1	16.00	≤30	PASS
	6	15.81	≤30	PASS
	11	16.04	≤30	PASS
IEEE 802.11n_20	1	15.78	≤30	PASS
	6	15.83	≤30	PASS
	11	15.82	≤30	PASS
IEEE 802.11n_40	3	15.72	≤30	PASS
	6	16.06	≤30	PASS
	9	16.17	≤30	PASS
IEEE 802.11ax_20	1	16.73	≤30	PASS
	6	16.70	≤30	PASS
	11	16.65	≤30	PASS
IEEE 802.11ax_40	3	18.02	≤30	PASS
	6	16.92	≤30	PASS
	9	15.97	≤30	PASS

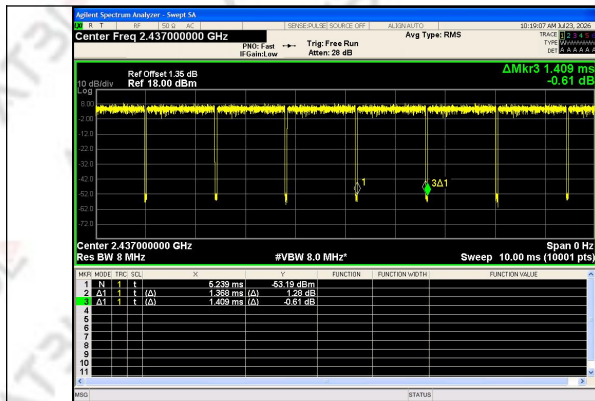
A2.Duty Cycle

Test Result:

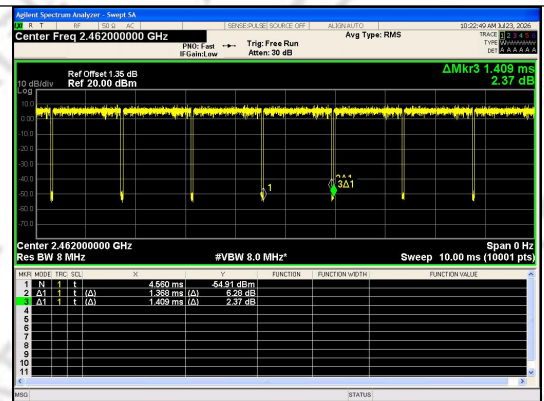
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	1	1	0	8.224	8.261	99.55	0.9955	0.0196
		6		8.224	8.262	99.54	0.9954	0.02
		11		8.224	8.262	99.54	0.9954	0.02
IEEE 802.11g	6	1		1.368	1.409	97.09	0.9709	0.1283
		6		1.368	1.409	97.09	0.9709	0.1283
		11		1.368	1.409	97.09	0.9709	0.1283
IEEE 802.11n_20		1		1.280	1.321	96.90	0.9690	0.1368
		6		1.280	1.321	96.90	0.9690	0.1368
		11		1.279	1.321	96.84	0.9684	0.1395
IEEE 802.11n_40	MCS 0	3		0.638	0.680	93.79	0.9379	0.2784
		6		0.638	0.680	93.79	0.9379	0.2784
		9		0.638	0.698	91.34	0.9134	0.3934
IEEE 802.11ax_20		1		0.999	1.041	95.98	0.9598	0.1782
		6		0.999	1.041	95.98	0.9598	0.1782
		11		0.999	1.041	95.98	0.9598	0.1782
IEEE 802.11ax_40		3		0.530	0.572	92.55	0.9255	0.3362
		6		0.529	0.572	92.49	0.9249	0.3391
		9		0.529	0.572	92.49	0.9249	0.3391

Test Graphs

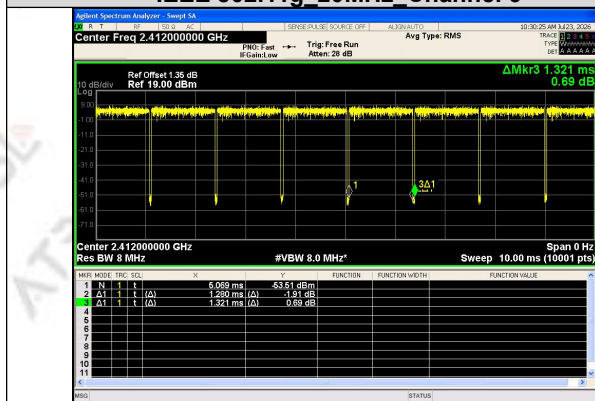




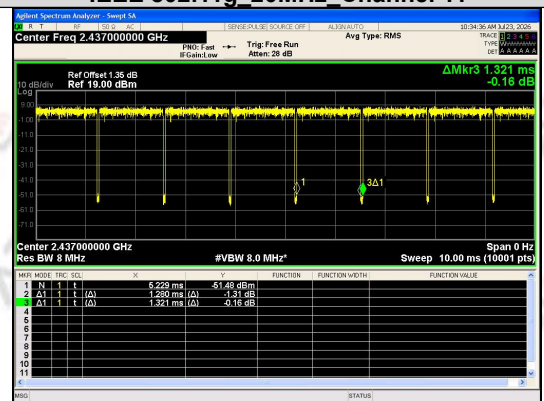
IEEE 802.11g 20MHz Channel 6



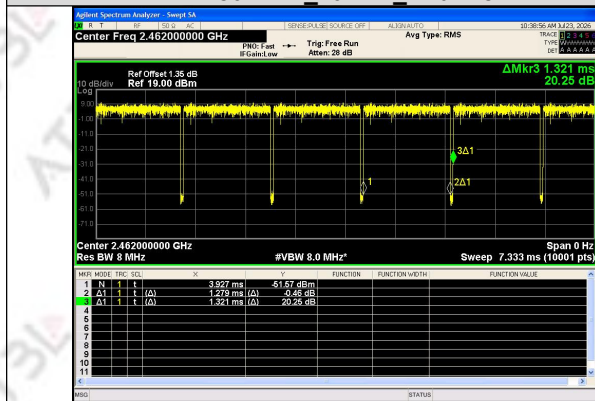
IEEE 802.11g 20MHz Channel 11



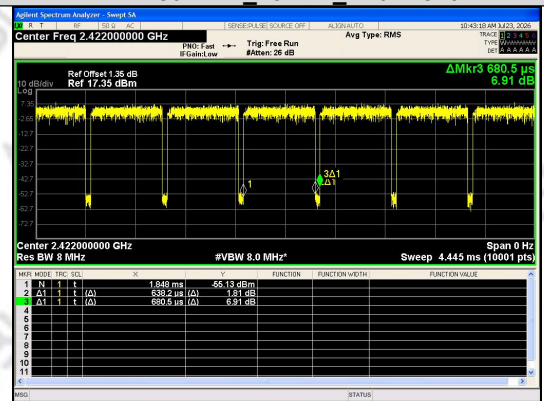
IEEE 802.11n 20MHz Channel 1



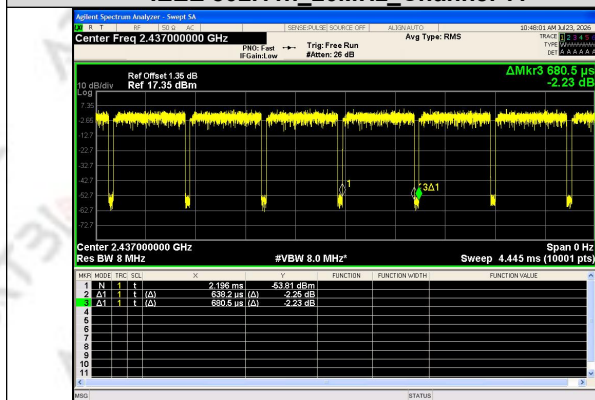
IEEE 802.11n 20MHz Channel 6



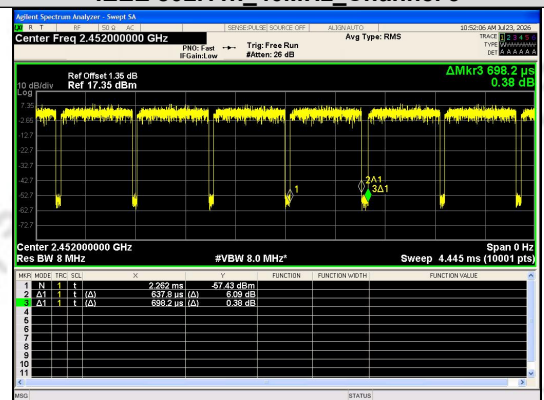
IEEE 802.11n 20MHz Channel 11



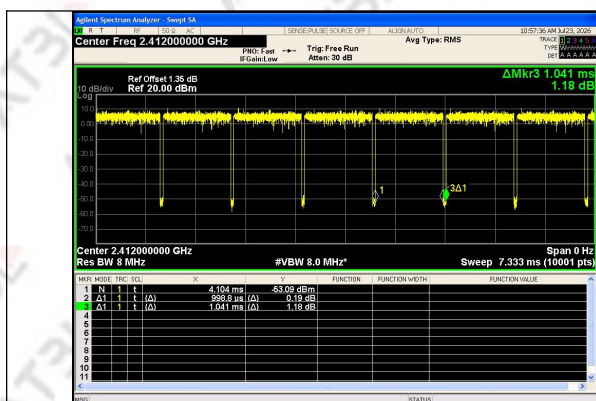
IEEE 802.11n 40MHz Channel 3



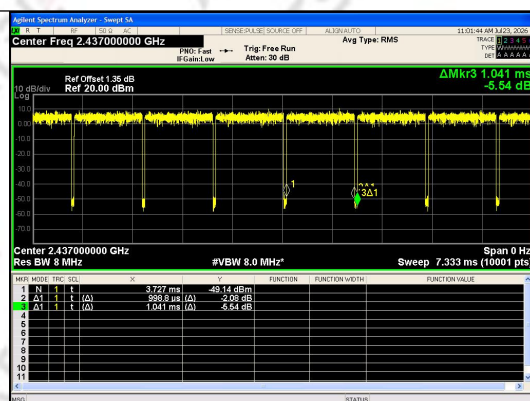
IEEE 802.11n 40MHz Channel 6



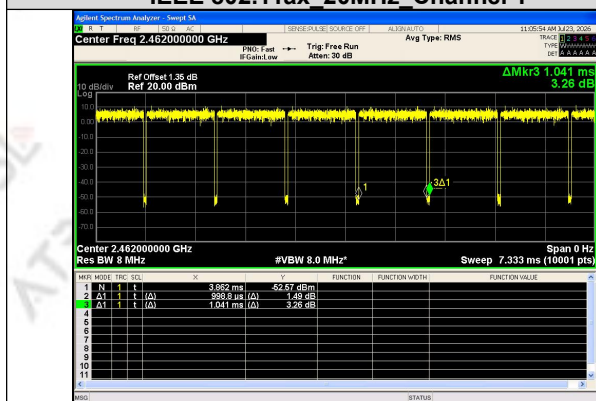
IEEE 802.11n 40MHz Channel 9



IEEE 802.11ax 20MHz Channel 1



IEEE 802.11ax 20MHz Channel 6



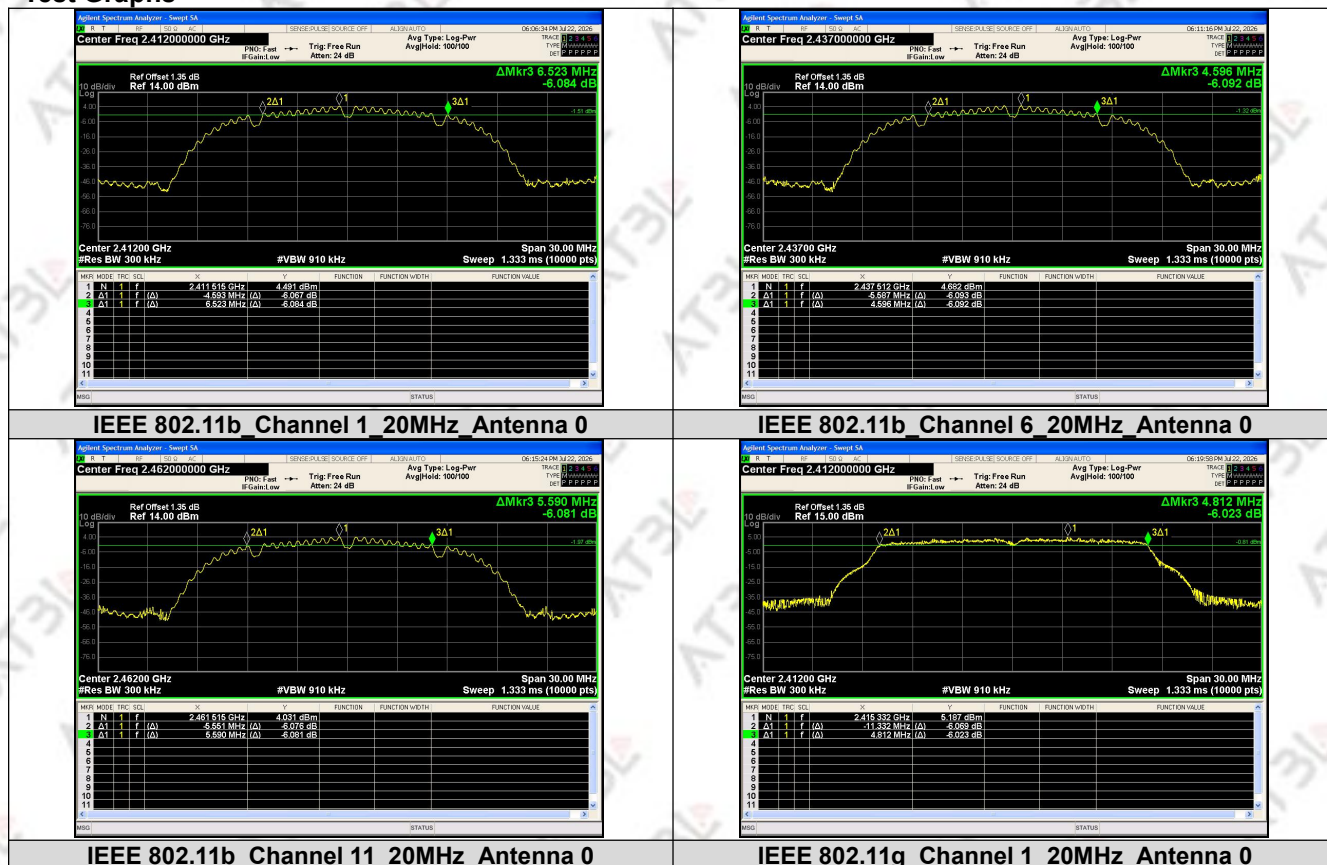
A3.6dB Bandwidth

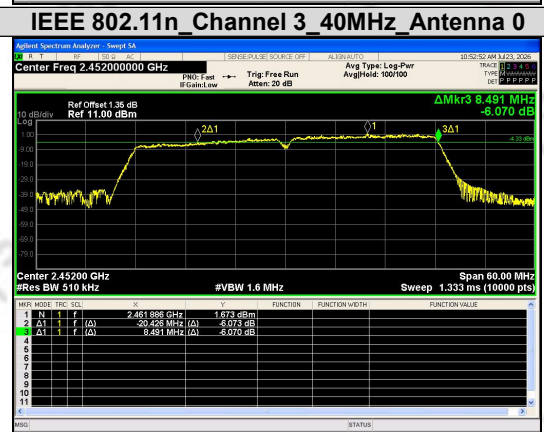
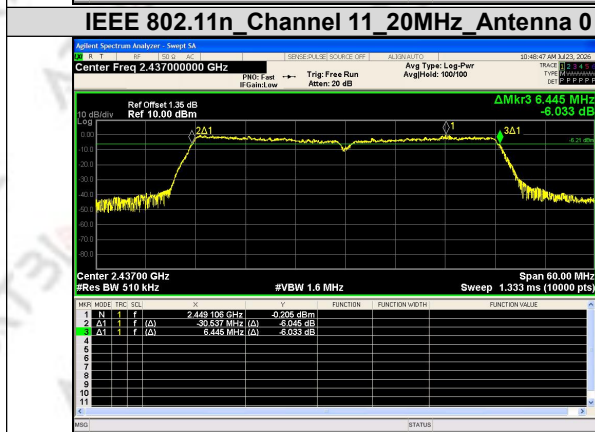
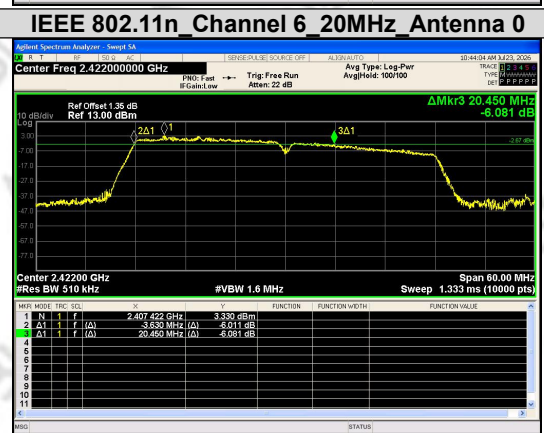
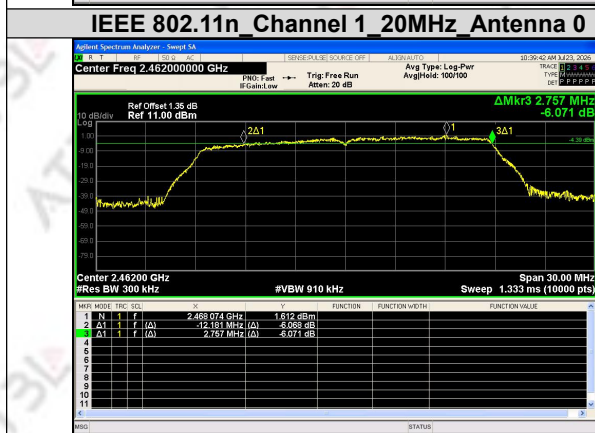
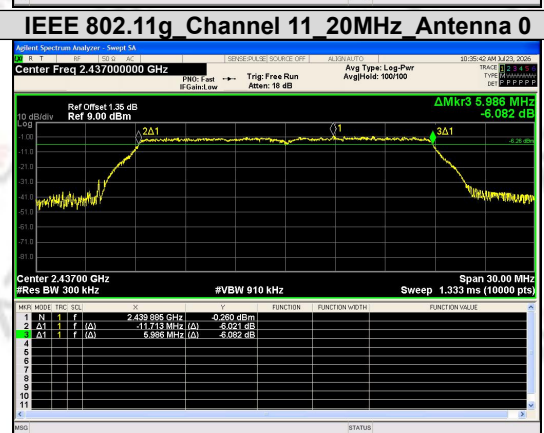
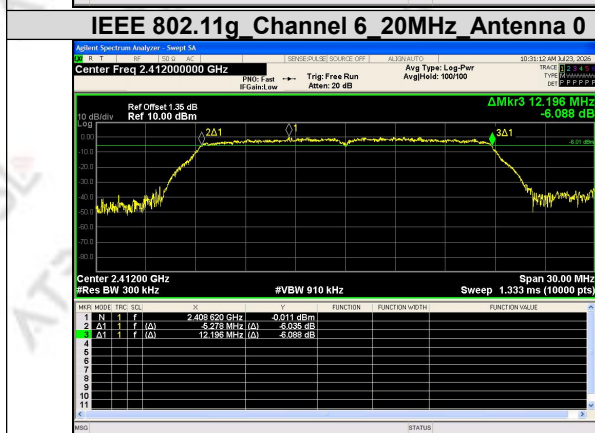
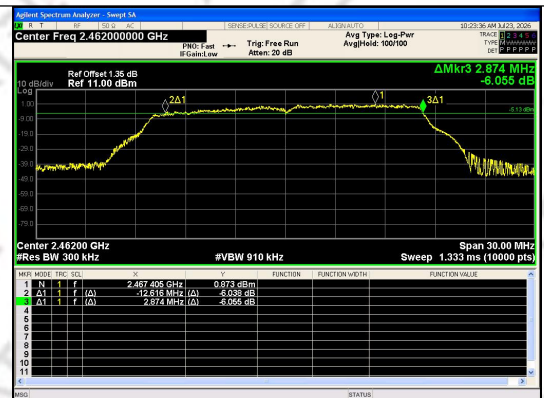
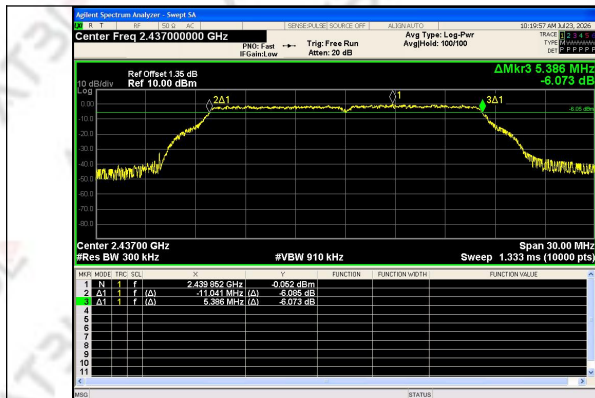
Test Result

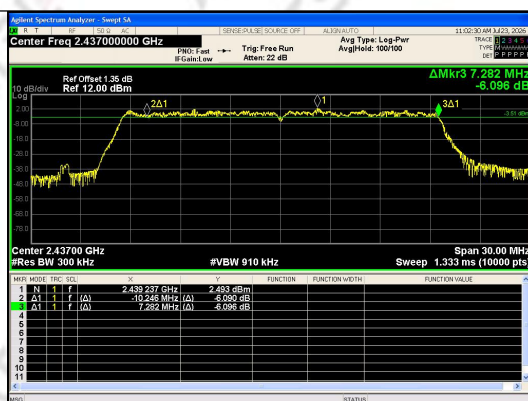
Note:

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	12.09	≥0.5	PASS
	6		2437	11.19		PASS
	11		2462	11.19		PASS
IEEE 802.11g	1		2412	16.38		PASS
	6		2437	16.17		PASS
	11		2462	15.13		PASS
IEEE 802.11n_20	1		2412	17.51		PASS
	6		2437	17.29		PASS
	11		2462	17.49		PASS
IEEE 802.11n_40	3		2422	32.26		PASS
	6		2437	35.75		PASS
	9		2452	36.15		PASS
IEEE 802.11ax_20	1		2412	17.06		PASS
	6		2437	18.85		PASS
	11		2462	18.89		PASS
IEEE 802.11ax_40	3		2422	37.67		PASS
	6		2437	37.53		PASS
	9		2452	37.95		PASS

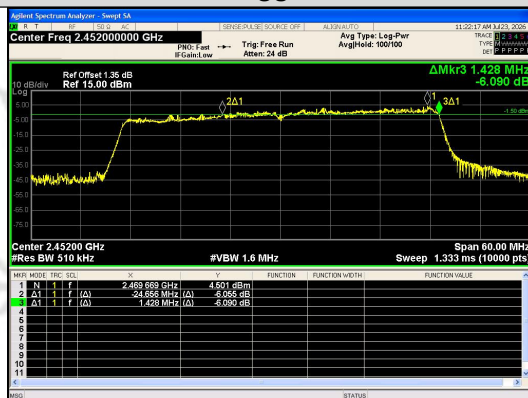
Test Graphs







IEEE 802.11ax_Channel 6_20MHz_Antenna 0_RU&Index
SU

IEEE 802.11ax_Channel 3_40MHz_Antenna 0_RU&Index
SUIEEE 802.11ax_Channel 9_40MHz_Antenna 0_RU&Index
SU