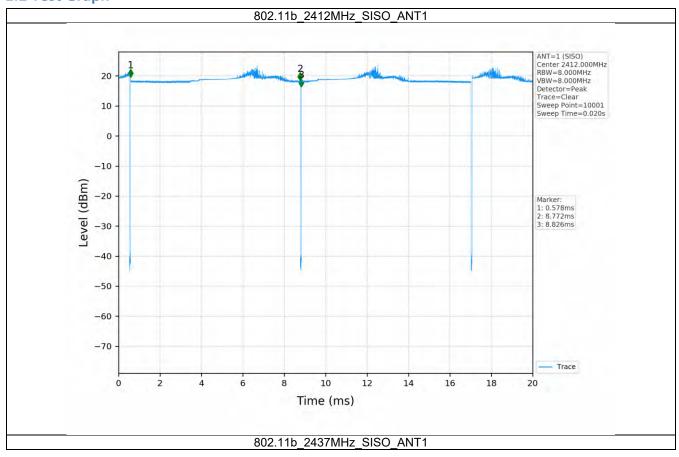
Appendix A SHEM190801594201

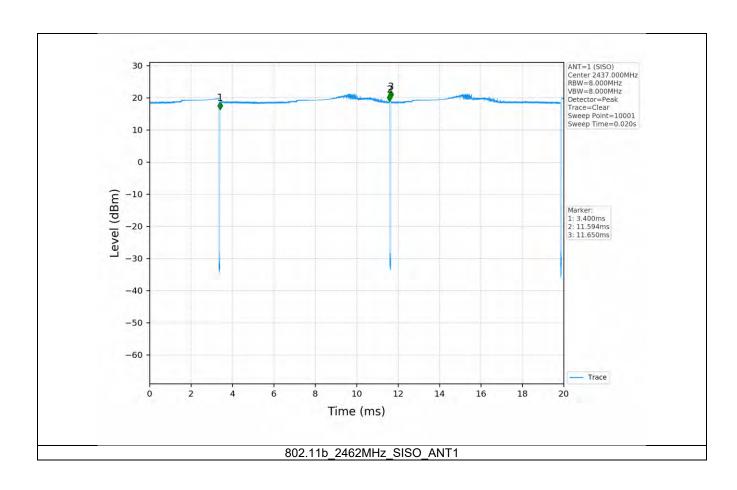
1. Duty Cycle

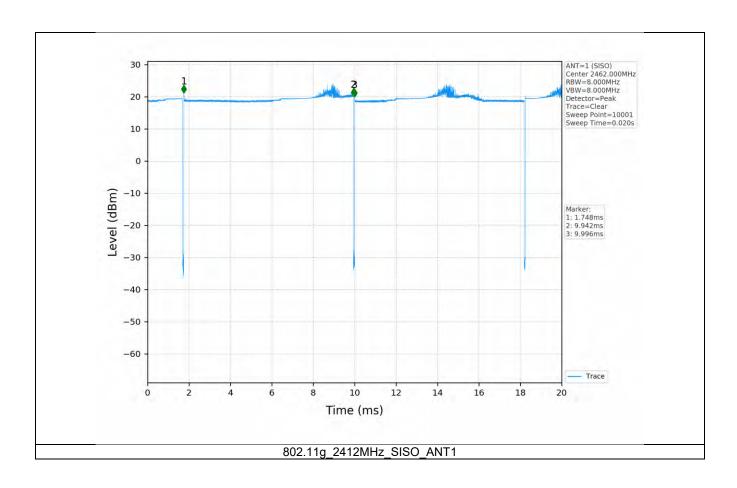
1.1 Test Result

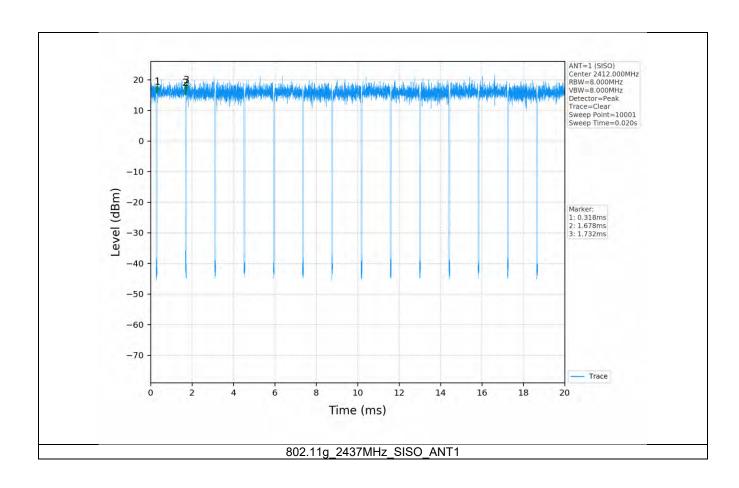
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.194	8.248	99.35	0.03
	2437	SISO	1	8.194	8.250	99.32	0.03
	2462	SISO	1	8.194	8.248	99.35	0.03
802.11g	2412	SISO	1	1.360	1.414	96.18	0.17
	2437	SISO	1	1.360	1.414	96.18	0.17
	2462	SISO	1	1.360	1.414	96.18	0.17
802.11n(HT20)	2412	SISO	1	1.272	1.326	95.93	0.18
	2437	SISO	1	1.272	1.326	95.93	0.18
	2462	SISO	1	1.272	1.326	95.93	0.18
802.11n(HT40)	2422	SISO	1	0.632	0.686	92.13	0.36
	2437	SISO	1	0.632	0.686	92.13	0.36
	2452	SISO	1	0.632	0.686	92.13	0.36

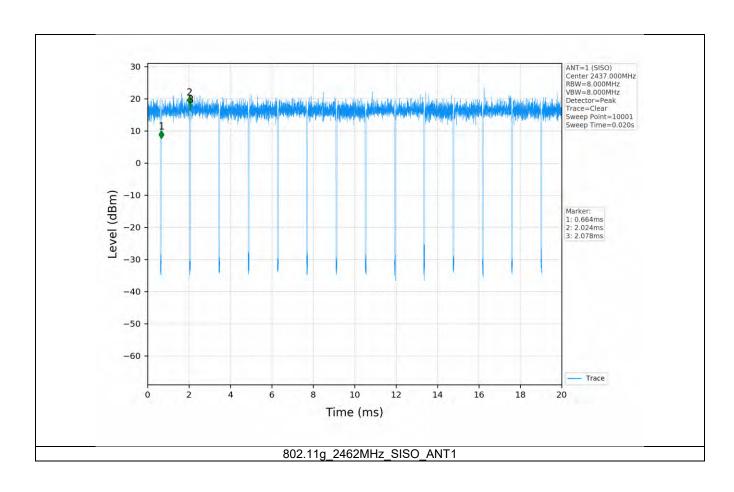
1.2 Test Graph

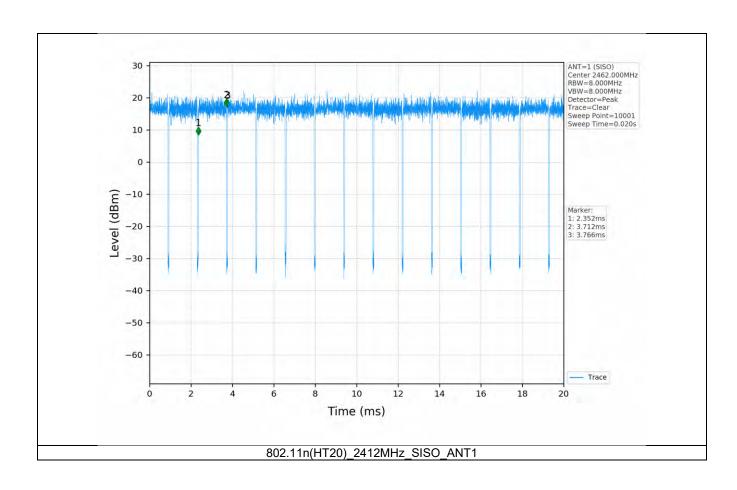


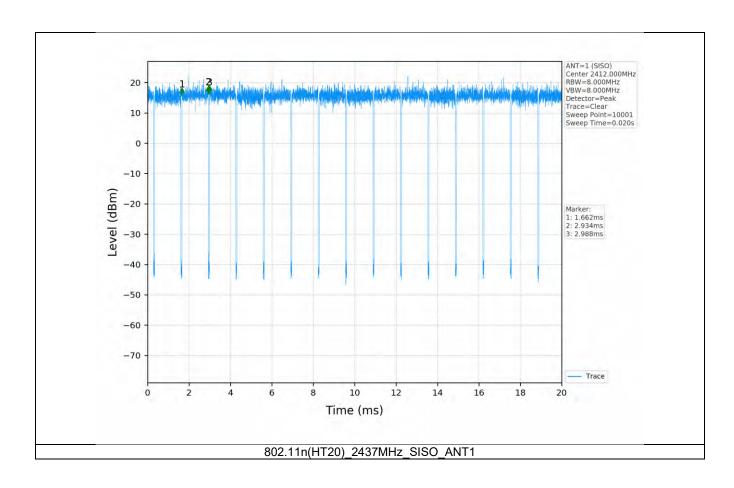


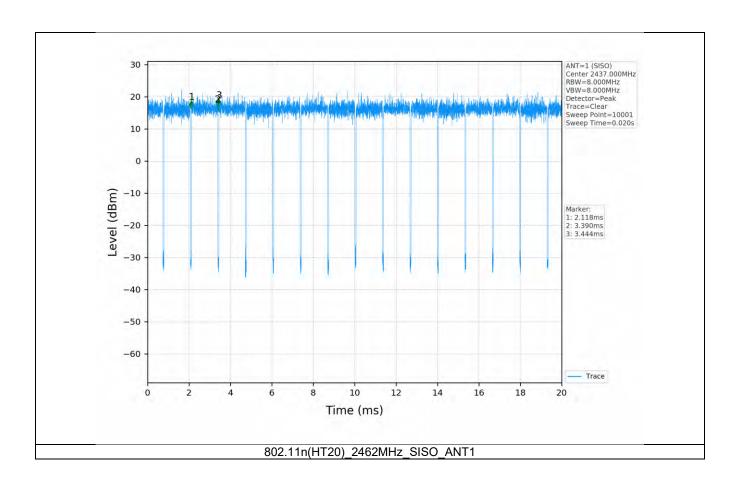


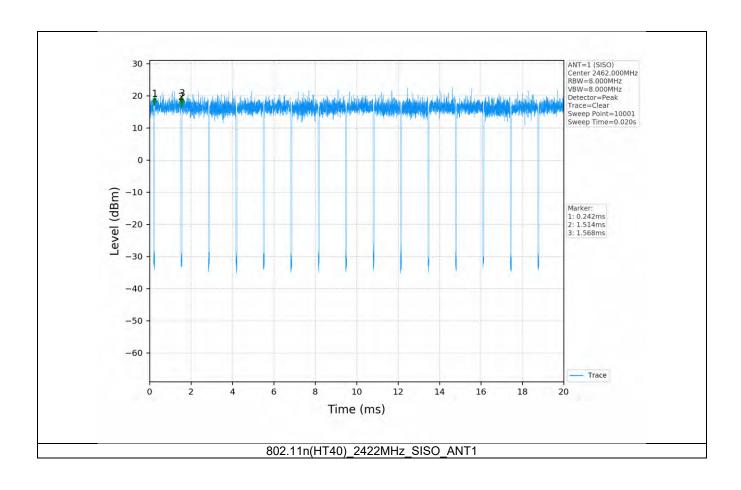


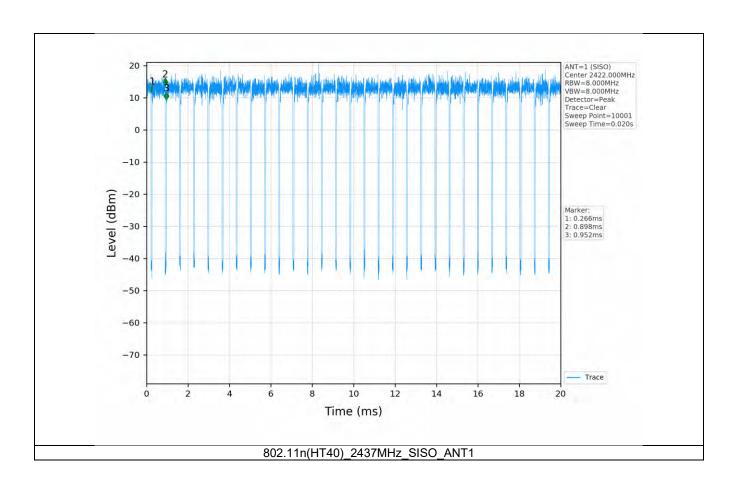


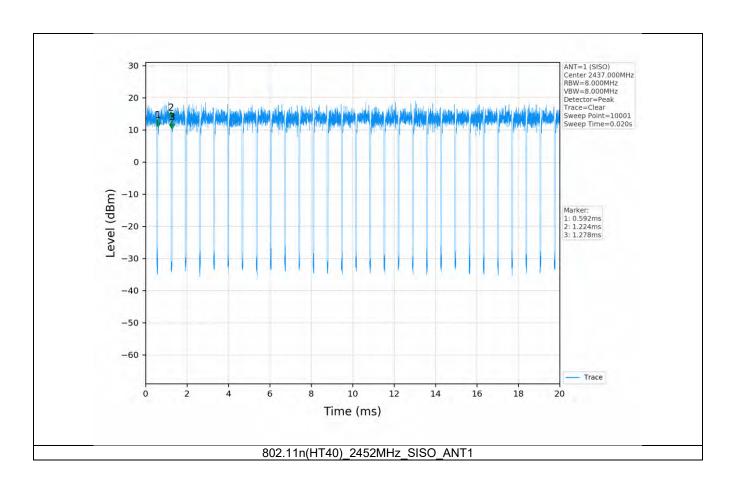


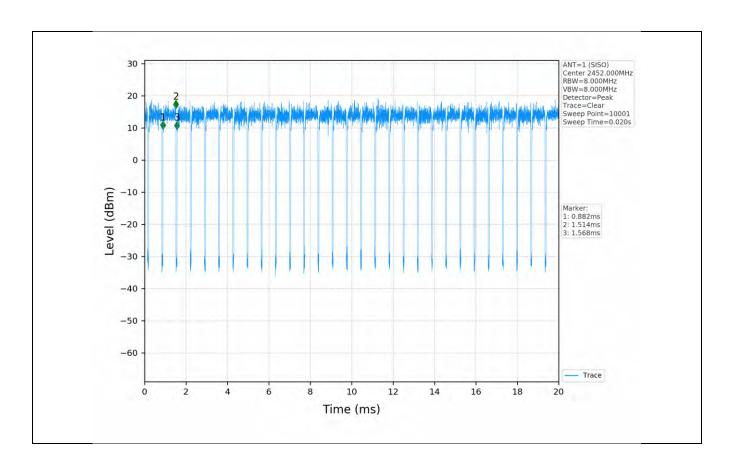












2. Bandwidth

2.1 Test Result

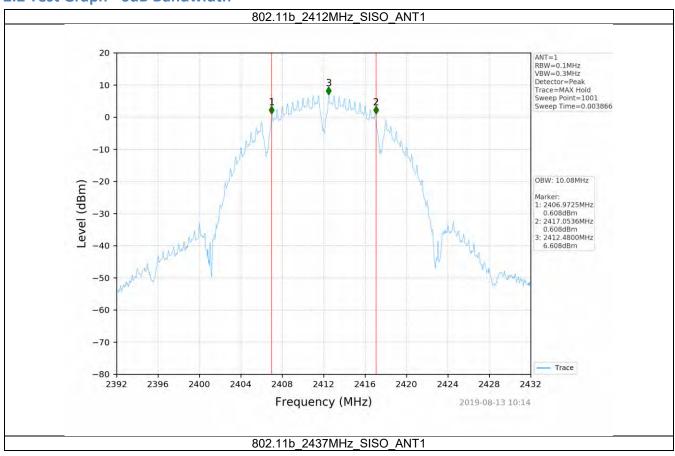
Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	6dB Bandwidth		Vardiat
i est Mode				Test Result (MHz)	Limits (MHz)	Verdict
802.11b	2412	SISO	1	10.080	≥0.5	PASS
	2437	SISO	1	9.620	≥0.5	PASS
	2462	SISO	1	9.600	≥0.5	PASS
802.11g	2412	SISO	1	16.390	≥0.5	PASS
	2437	SISO	1	16.390	≥0.5	PASS
	2462	SISO	1	16.370	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.580	≥0.5	PASS
	2437	SISO	1	17.370	≥0.5	PASS
	2462	SISO	1	17.570	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	35.160	≥0.5	PASS
	2437	SISO	1	35.190	≥0.5	PASS
	2452	SISO	1	35.200	≥0.5	PASS

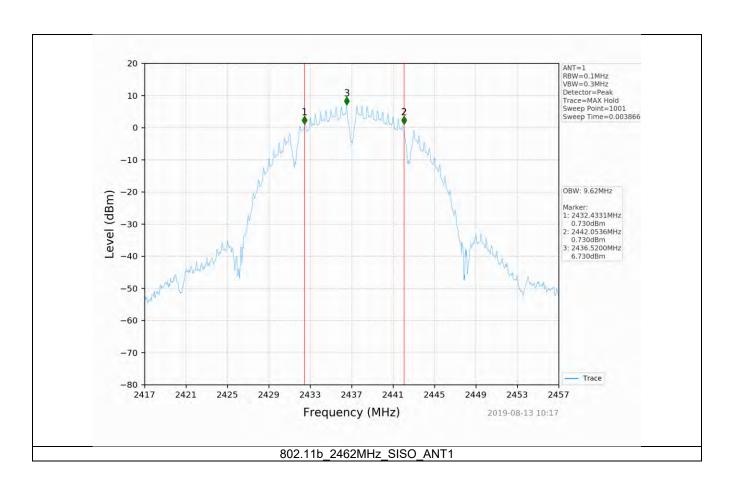
Test Mode	Frequency (MHz)	ТХ Туре	ANT No.	99% Occupied Bandwidth		
rest wode				Test Result (MHz)		
802.11b	2412	SISO	1	14.950	Only for Report Use	
	2437	SISO	1	14.950	Only for Report Use	

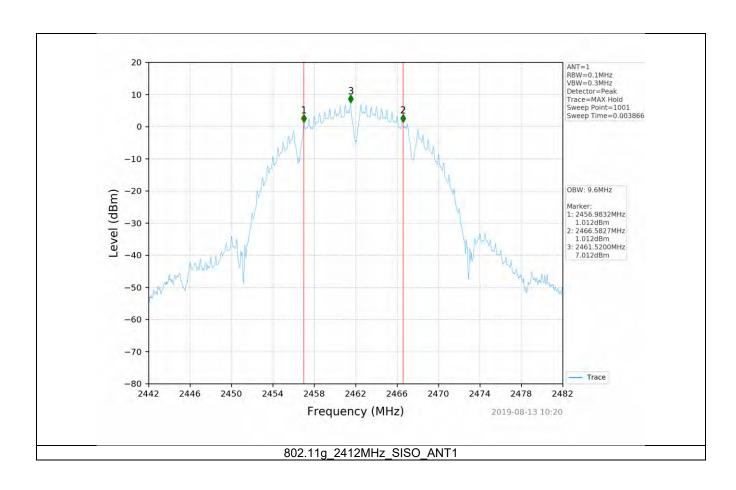


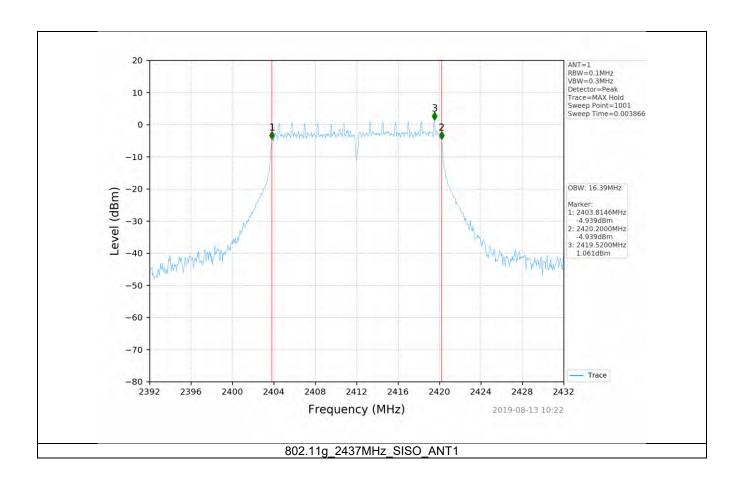
	0400	CICO	1	44.050	Only for Deport Hos
	2462	SISO	<u> </u>	14.950	Only for Report Use
802.11g	2412	SISO	1	16.850	Only for Report Use
	2437	SISO	1	16.910	Only for Report Use
	2462	SISO	1	16.980	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.910	Only for Report Use
	2437	SISO	1	17.950	Only for Report Use
	2462	SISO	1	17.960	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.190	Only for Report Use
	2437	SISO	1	36.120	Only for Report Use
	2452	SISO	1	36.410	Only for Report Use

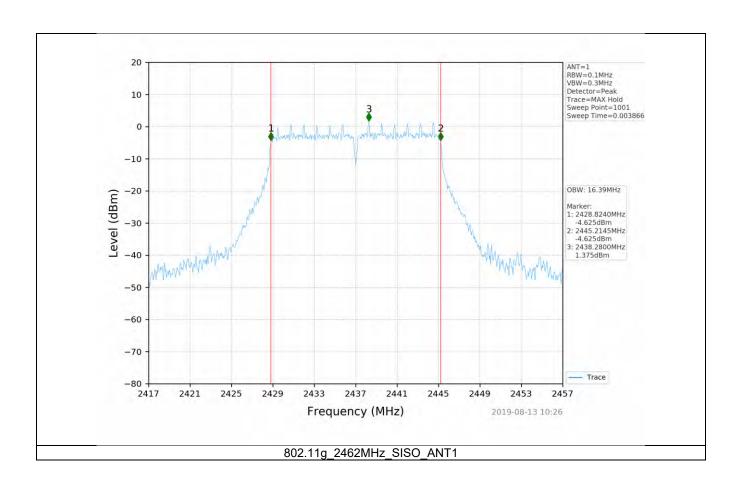
2.2 Test Graph - 6dB Bandwidth

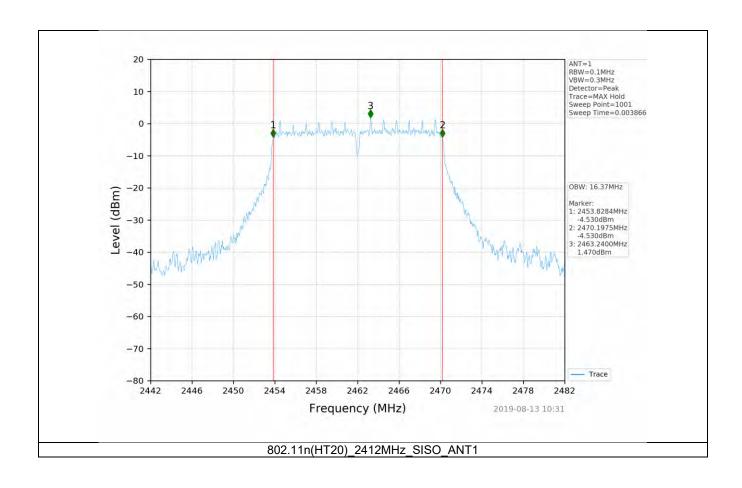


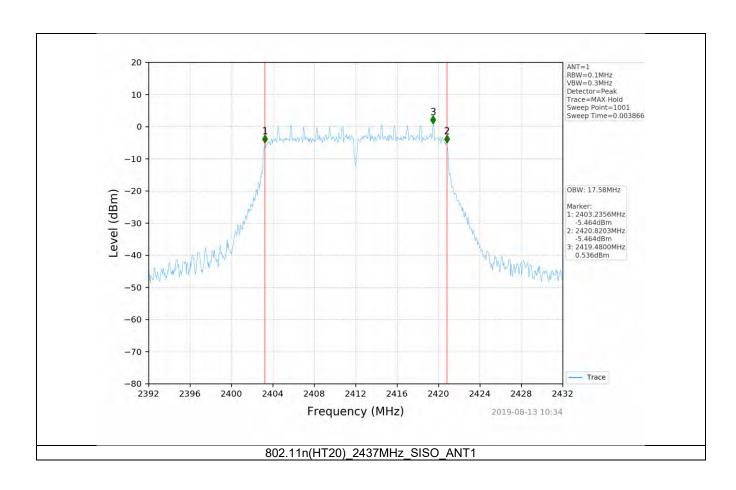


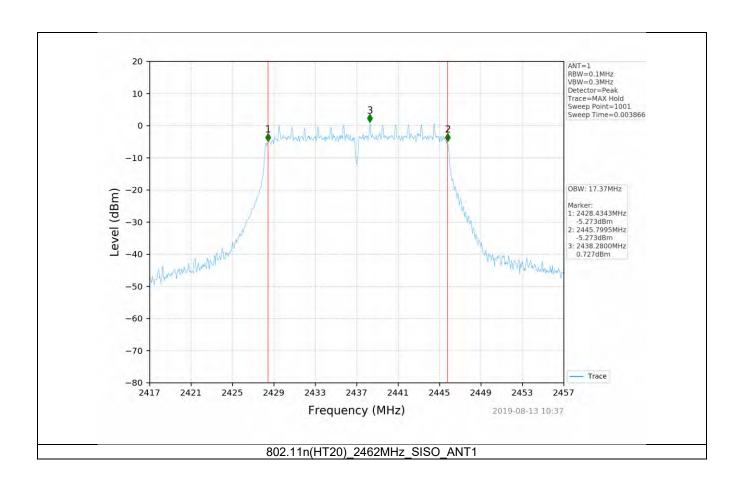


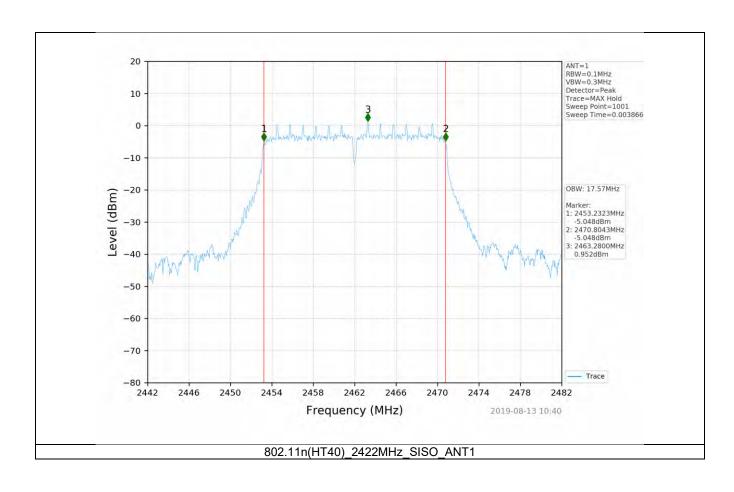


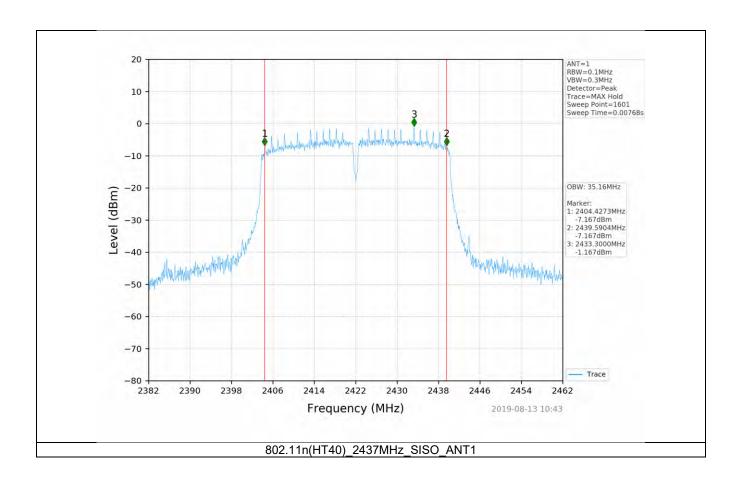


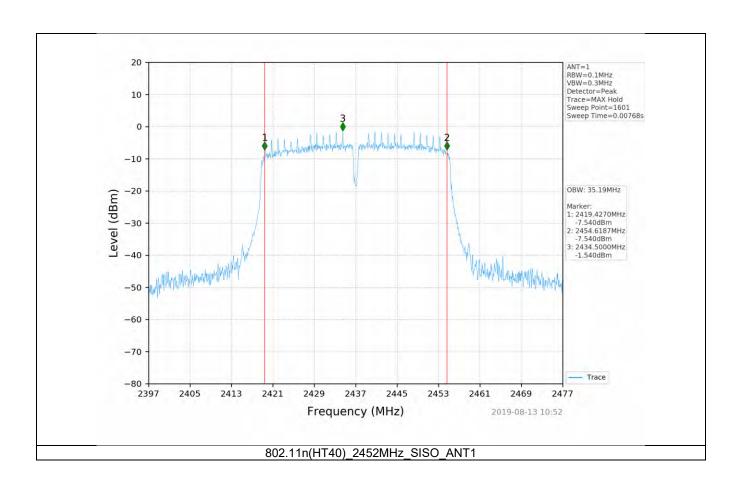






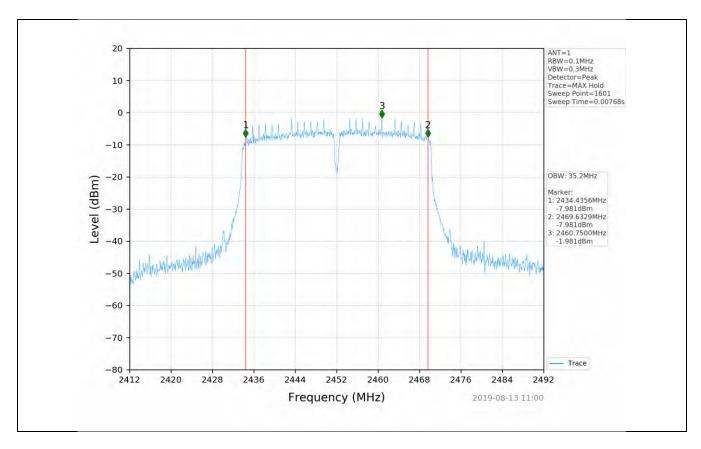






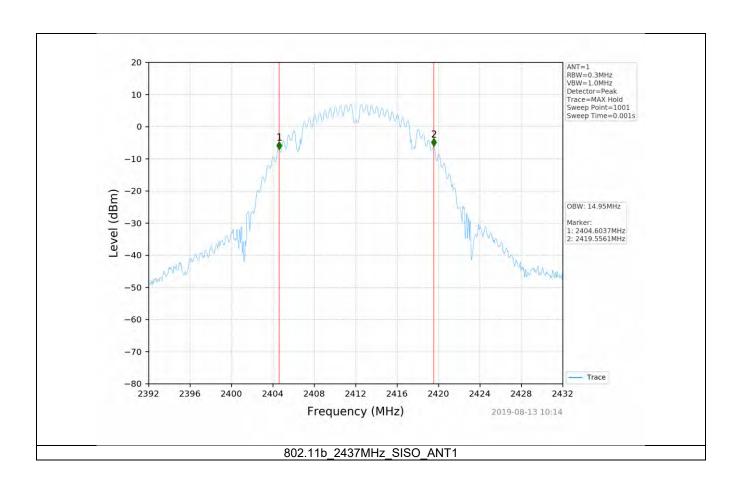


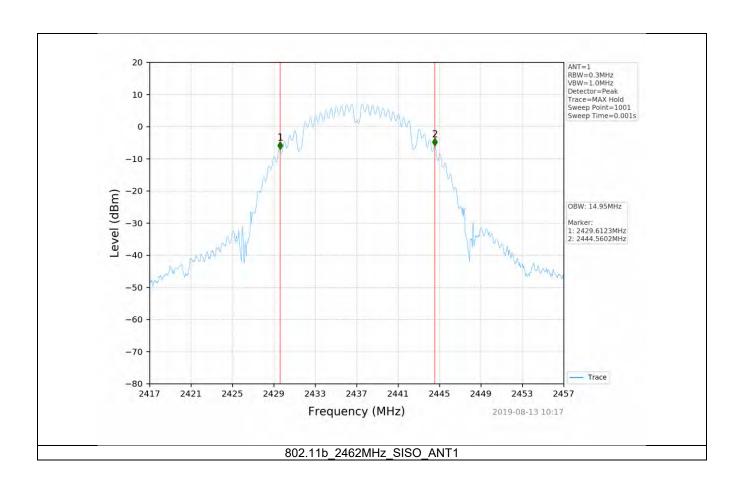
SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

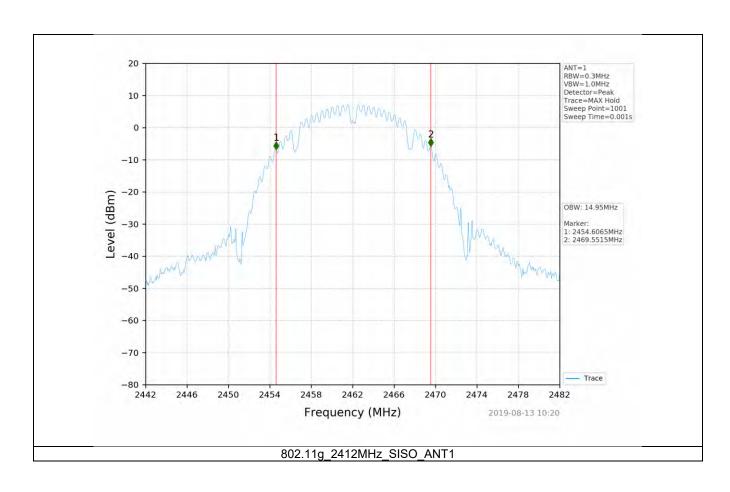


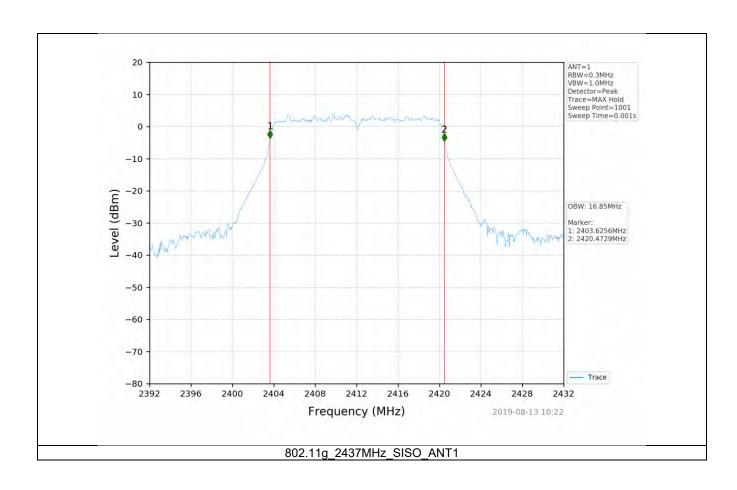
2.3 Test Graph - 99% Occupied Bandwidth

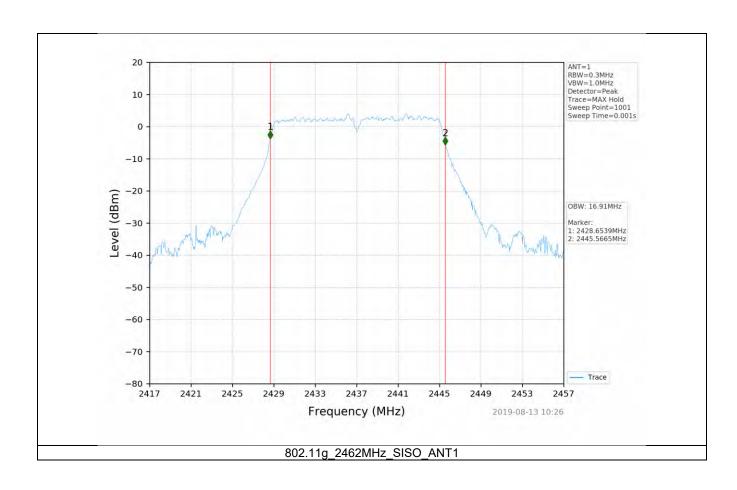
802.11b_2412MHz_SISO_ANT1

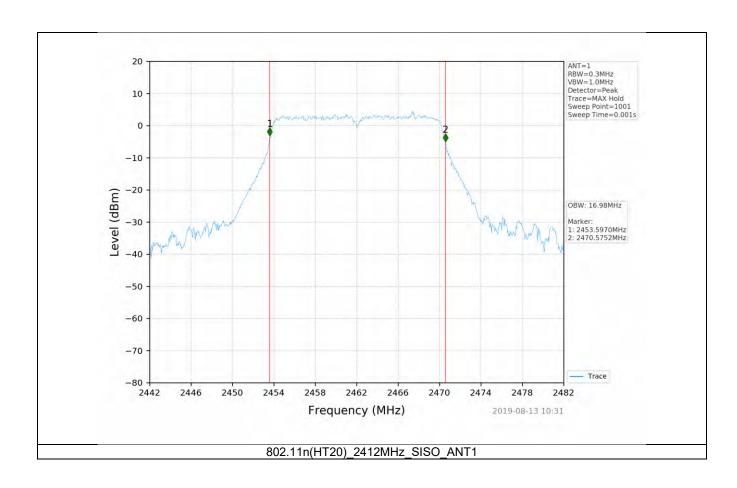


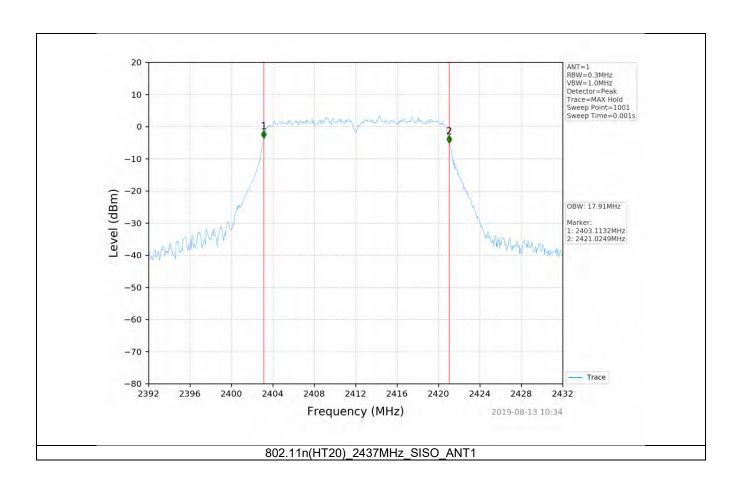


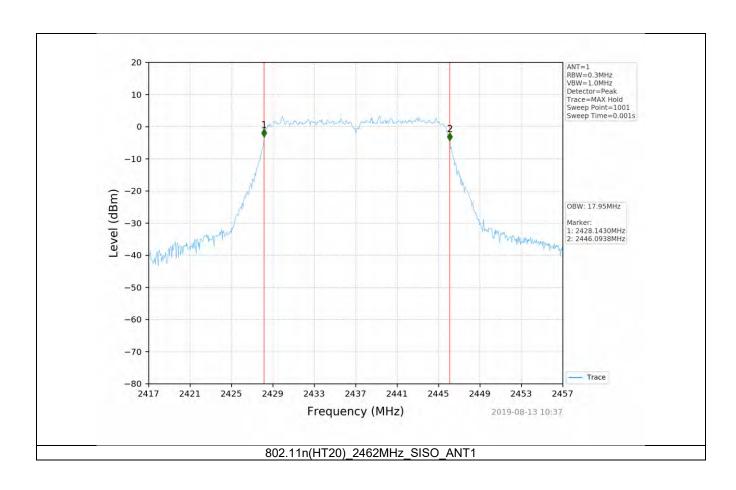


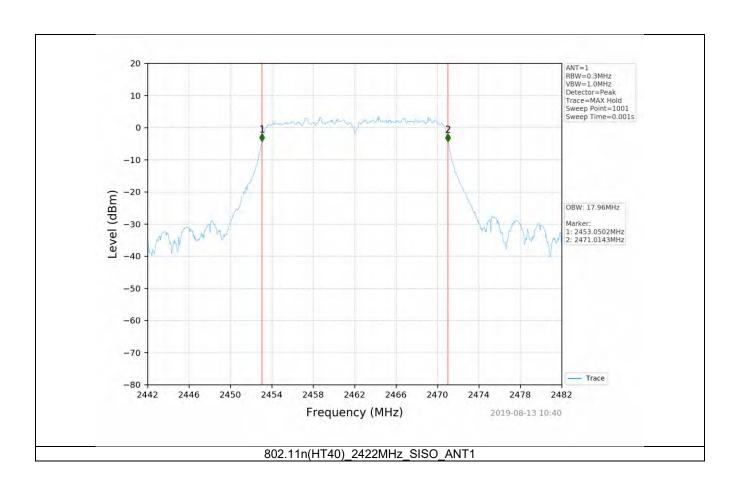


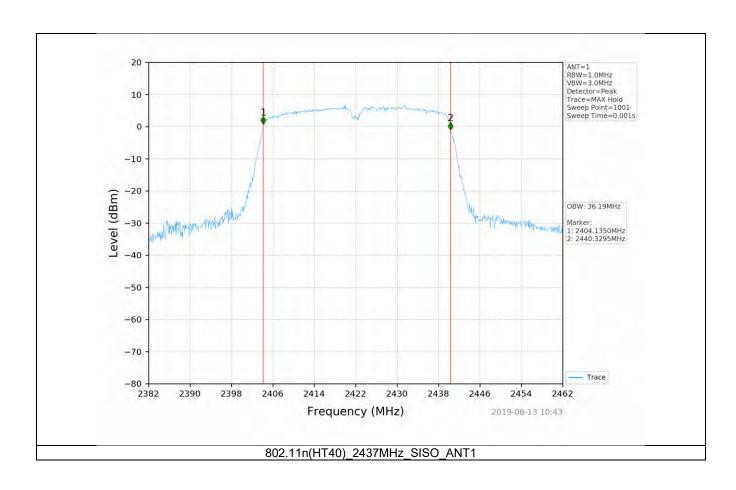


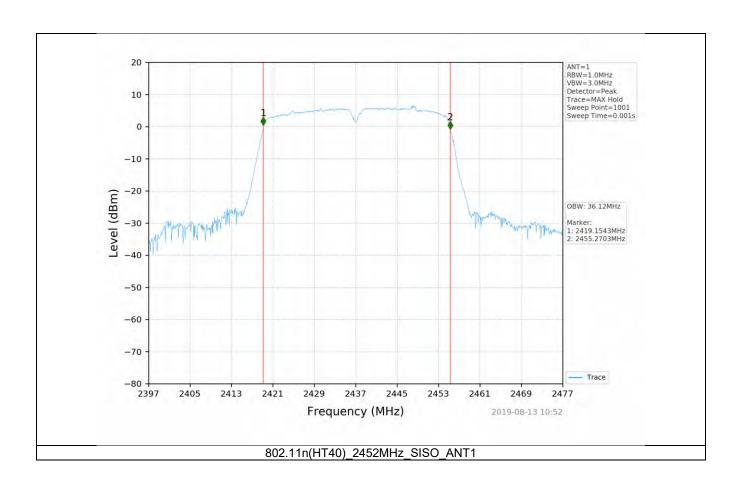


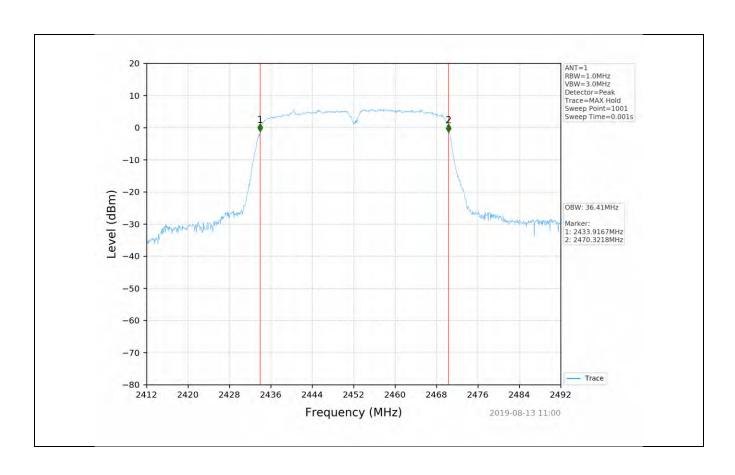










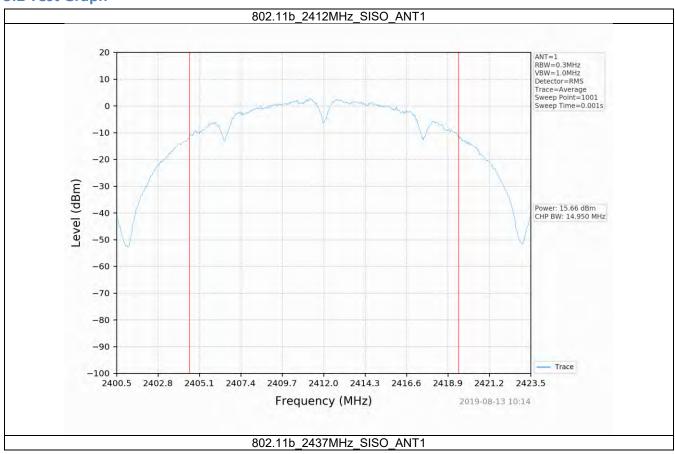


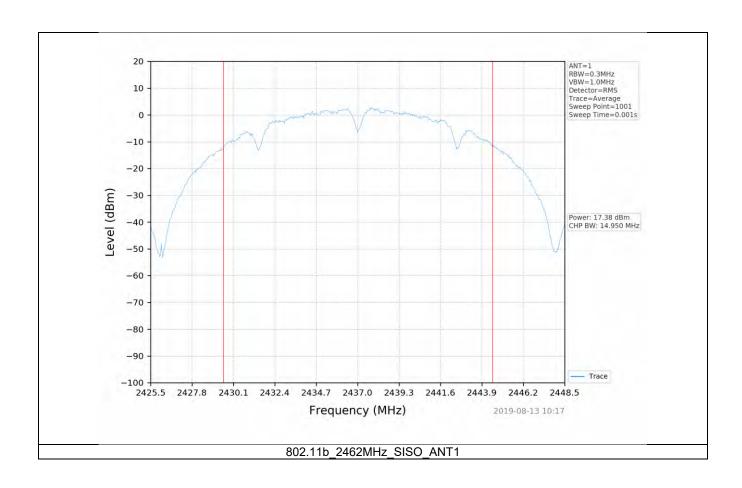
3. Maximum Conducted Output Power

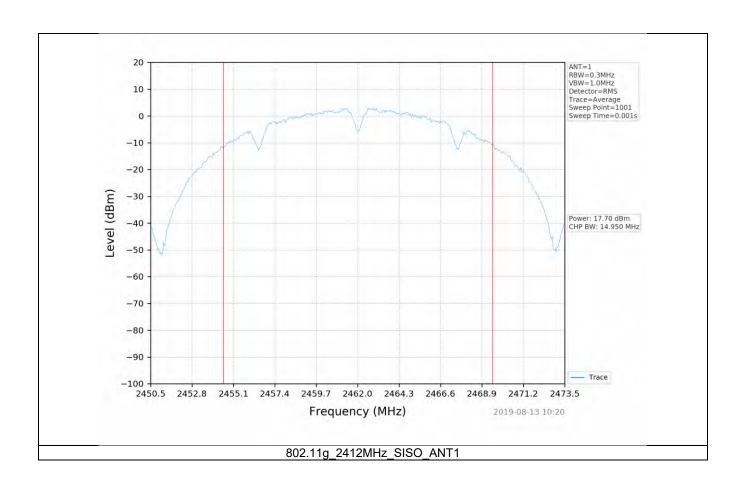
3.1 Test Result

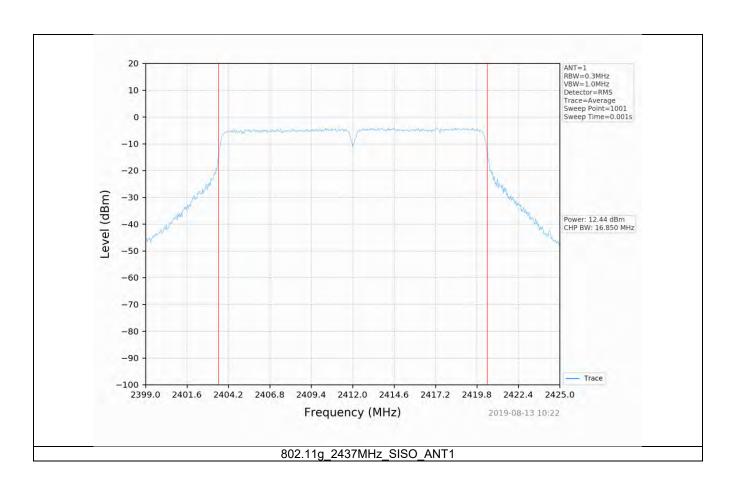
Test Mode	Frequency (MHz)	Тх Туре	Duty Cycle Correction Factor (dB)	Level (dBm)	Maximum Conducted Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1	Ant 1	Ant 1	d Limits	
	2412	SISO	0.03	15.66	15.69	≤30	PASS
802.11b	2437	SISO	0.03	17.38	17.41	≤30	PASS
	2462	SISO	0.03	17.70	17.73	≤30	PASS
802.11g	2412	SISO	0.17	12.44	12.61	≤30	PASS
	2437	SISO	0.17	12.43	12.60	≤30	PASS
	2462	SISO	0.17	12.63	12.80	≤30	PASS
802.11n(HT20)	2412	SISO	0.18	11.97	12.15	≤30	PASS
	2437	SISO	0.18	11.82	12.00	≤30	PASS
	2462	SISO	0.18	12.02	12.20	≤30	PASS
802.11n(HT40)	2422	SISO	0.36	13.30	13.66	≤30	PASS
	2437	SISO	0.36	18.42	18.78	≤30	PASS
	2452	SISO	0.36	12.21	12.57	≤30	PASS

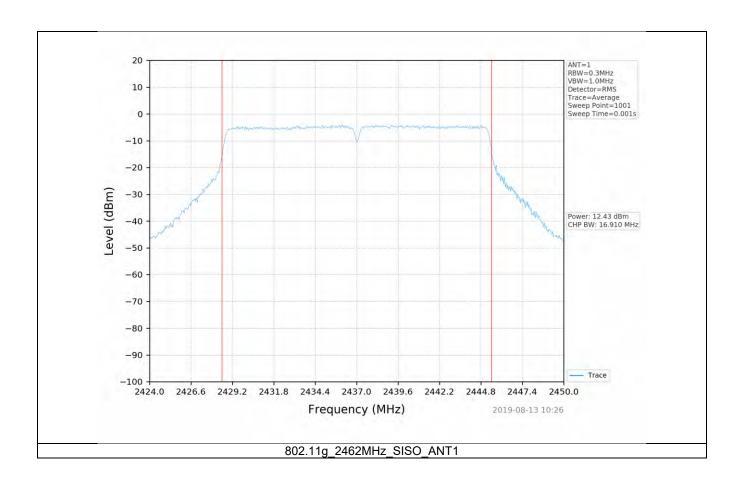
3.2 Test Graph

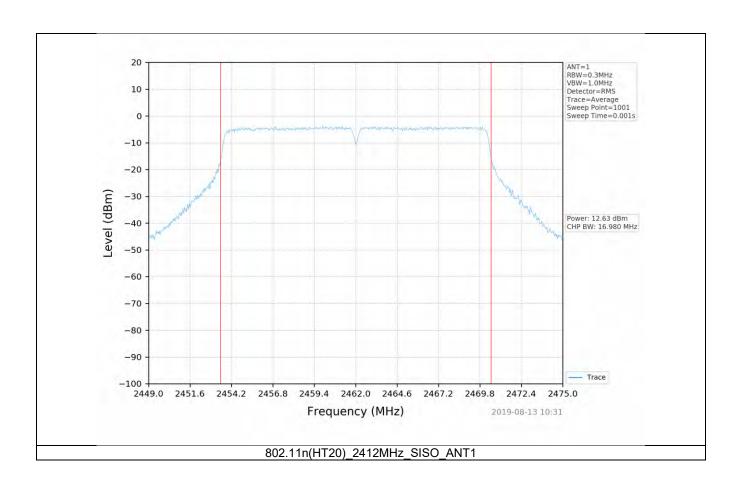


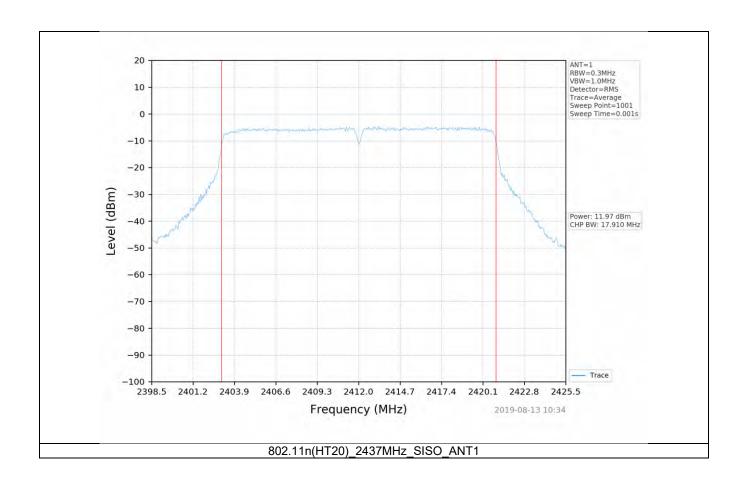


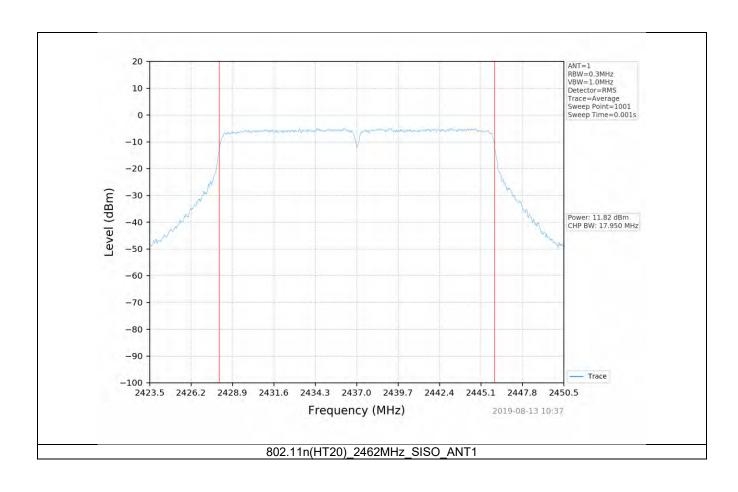


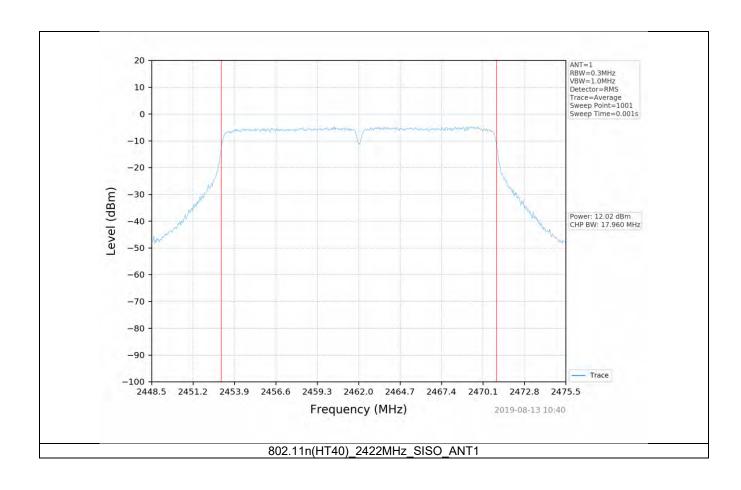


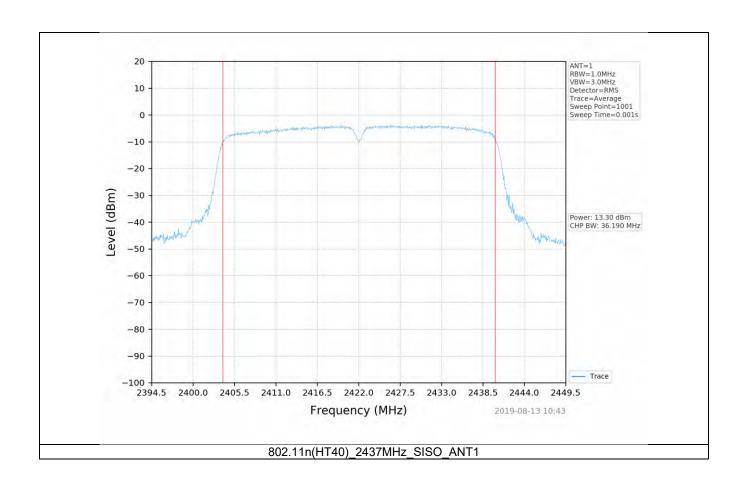


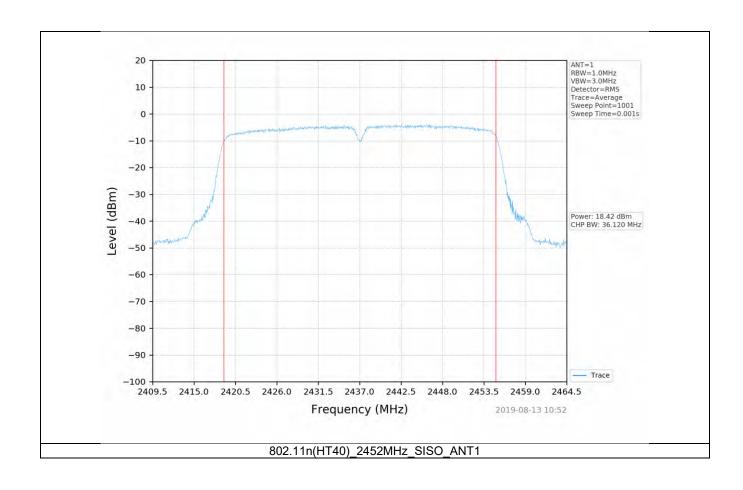


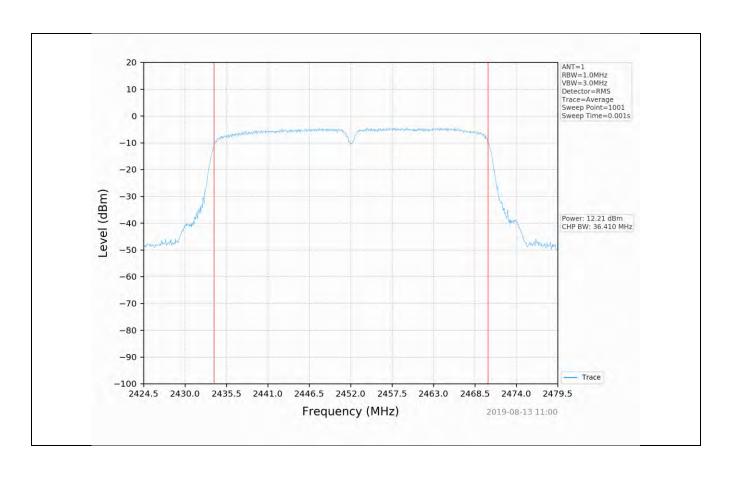












4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz) Tx Type	Duty Cycle Correction Factor (dB)	Level (dBm/3KH z)	Maximum Power Spectral Density (dBm/3KH z)	Limits (dBm/3kH z)	Verdict	
			Ant 1	Ant 1	Ant 1		
802.11b	2412	SISO	0.03	-12.907	-12.877	≤8	PASS
	2437	SISO	0.03	-13.007	-12.977	≤8	PASS
	2462	SISO	0.03	-14.039	-14.009	≤8	PASS
802.11g	2412	SISO	0.17	-17.653	-17.483	≤8	PASS
	2437	SISO	0.17	-16.466	-16.296	≤8	PASS
	2462	SISO	0.17	-16.970	-16.800	≤8	PASS
802.11n(HT20)	2412	SISO	0.18	-17.496	-17.316	≤8	PASS
	2437	SISO	0.18	-17.555	-17.375	≤8	PASS
	2462	SISO	0.18	-17.368	-17.188	≤8	PASS
802.11n(HT40)	2422	SISO	0.36	-21.779	-21.419	≤8	PASS
	2437	SISO	0.36	-22.233	-21.873	≤8	PASS
	2452	SISO	0.36	-22.051	-21.691	≤8	PASS

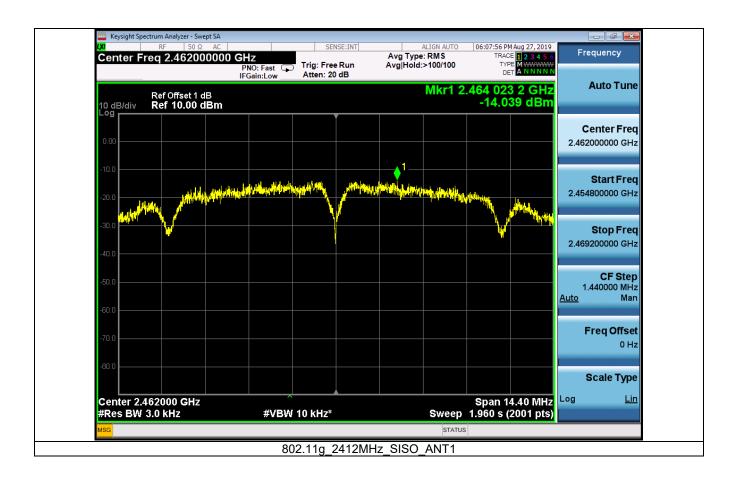
4.2 Test Graph



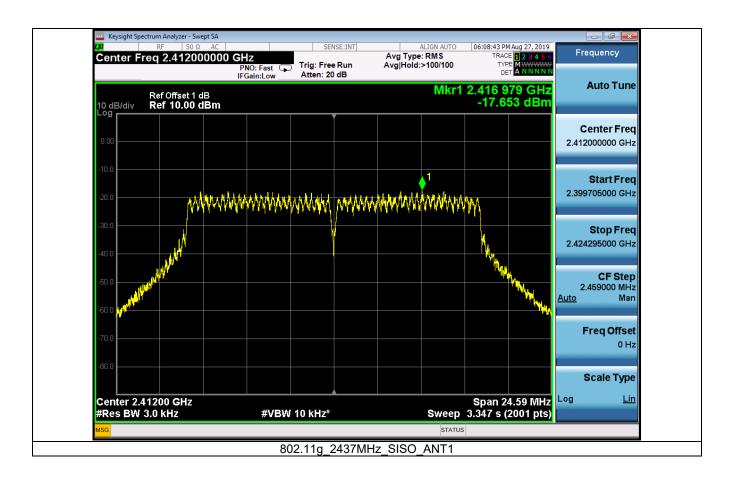




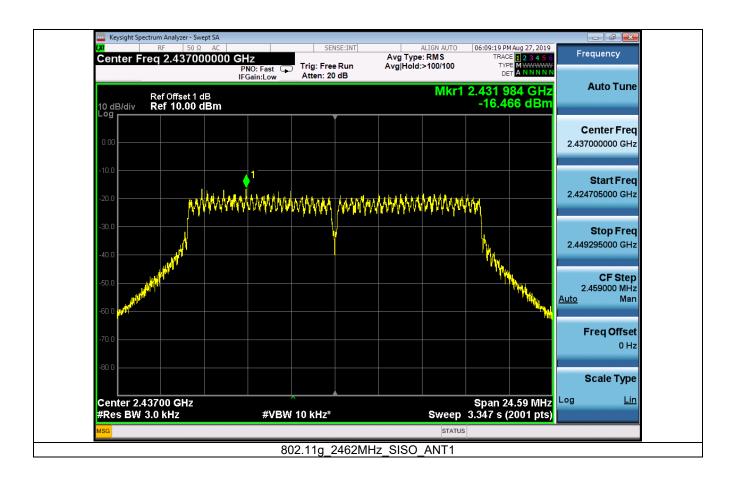




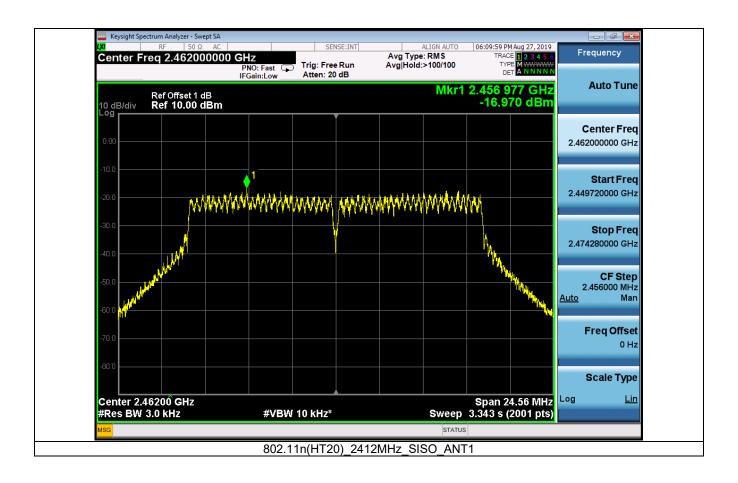


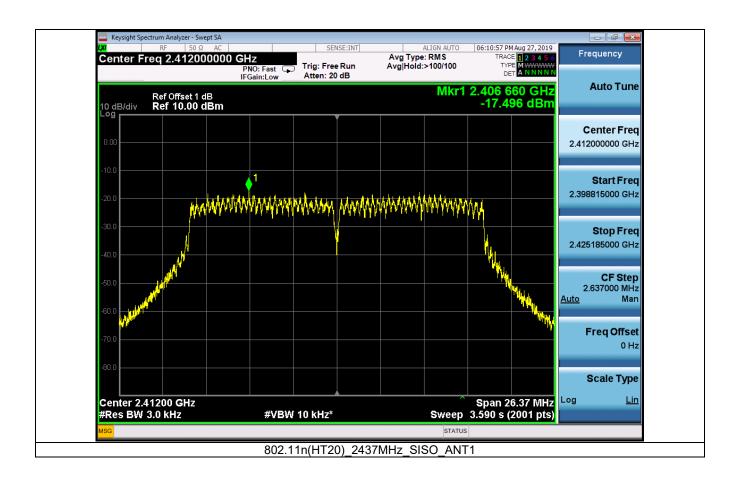


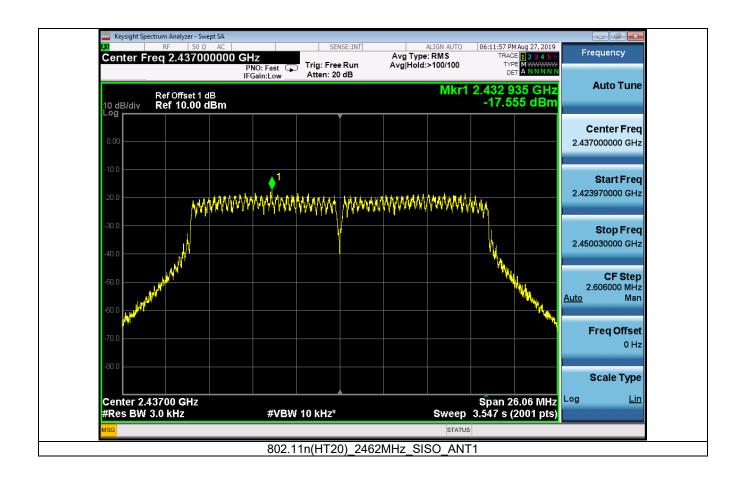


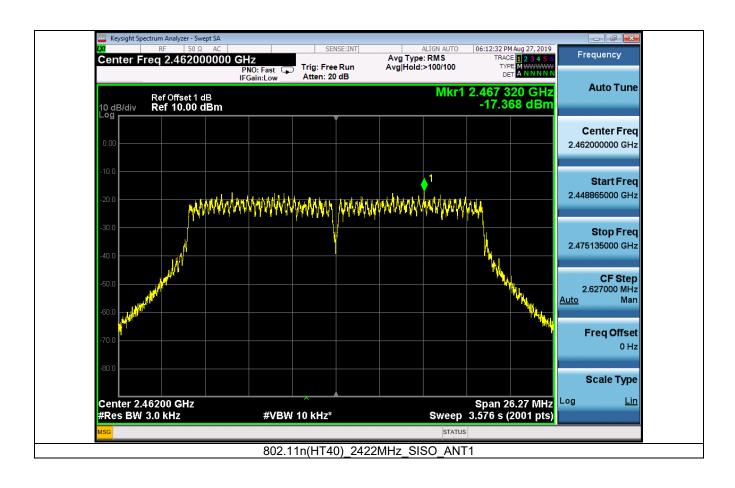




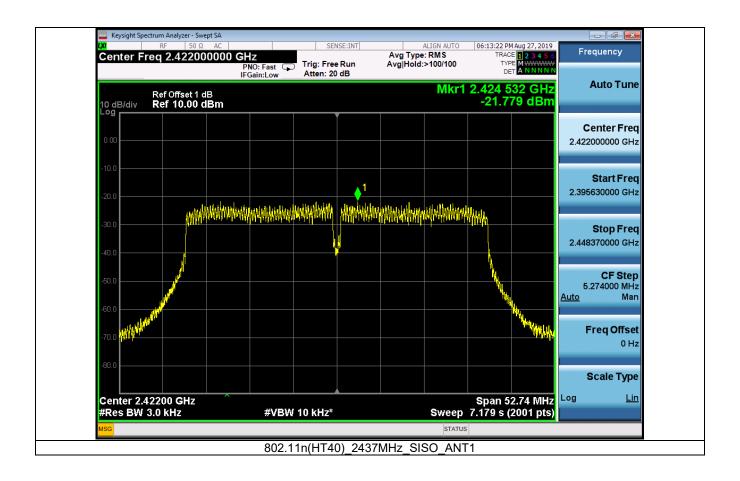


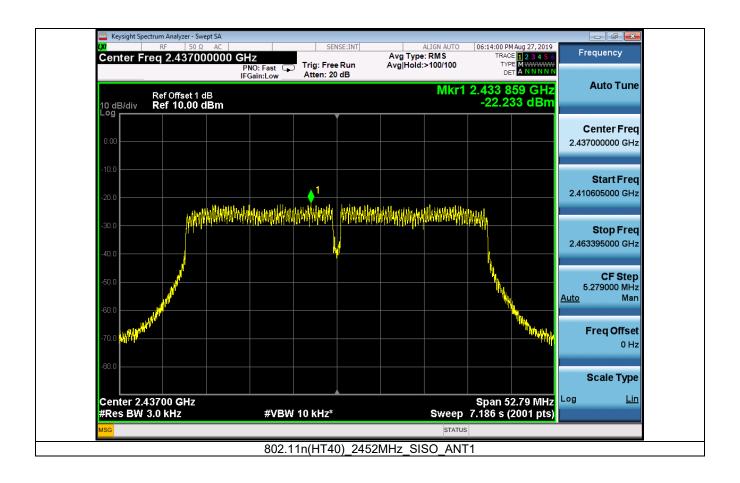




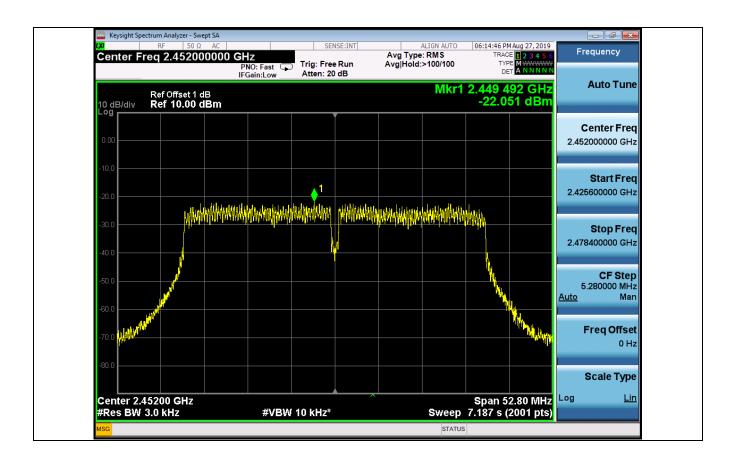












5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBc)	Limits (dBc)	Verdict
802.11b	2412	SISO	1	Refer to test graph	≤-30	PASS
	2437	SISO	1	Refer to test graph	≤-30	PASS
	2462	SISO	1	Refer to test graph	≤-30	PASS
802.11g	2412	SISO	1	Refer to test graph	≤-30	PASS
	2437	SISO	1	Refer to test graph	≤-30	PASS
	2462	SISO	1	Refer to test graph	≤-30	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	≤-30	PASS
	2437	SISO	1	Refer to test graph	≤-30	PASS
	2462	SISO	1	Refer to test graph	≤-30	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	≤-30	PASS
	2437	SISO	1	Refer to test graph	≤-30	PASS
	2452	SISO	1	Refer to test graph	≤-30	PASS

5.2 Test Graph

