

Applicant: <u>PGST CO.,LTD</u>	
Case No. : <u>SZNTT26038363E1-2</u>	
EUT: <u>Smart Security Alarm System</u>	
M/N: <u>PG-A06</u>	
Standard: <u>FCC PART 15 C 15.247</u>	
Test Power Supply: <u>DC 3.3V</u>	
Ambient Condition: <u>24.6</u> °C, <u>52</u> %RH, <u>101.325</u> kPa	
Test Date: <u>2026.10.17</u>	Test Engineer: <u>Gary Lu</u>

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.160	2407.400	2416.560	0.5	PASS
		2437	9.120	2432.400	2441.520	0.5	PASS
		2462	9.120	2457.400	2466.520	0.5	PASS
11G	Ant1	2412	13.560	2403.320	2416.880	0.5	PASS
		2437	15.840	2428.240	2444.080	0.5	PASS
		2462	13.640	2453.200	2466.840	0.5	PASS
11N20SISO	Ant1	2412	15.000	2404.320	2419.320	0.5	PASS
		2437	15.080	2429.240	2444.320	0.5	PASS
		2462	15.040	2454.240	2469.280	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix B: Occupied Channel Bandwidth

Test Result

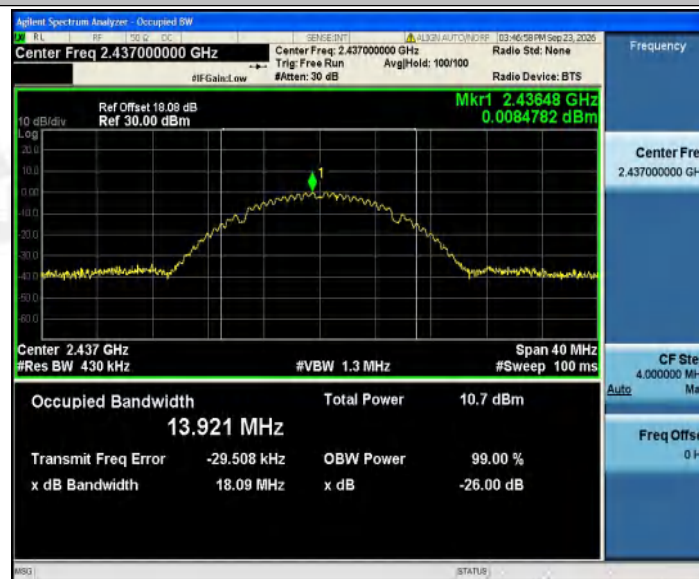
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.060	2404.9933	2419.0533	---	---
		2437	13.921	2430.0100	2443.9310	---	---
		2462	13.828	2455.0427	2468.8707	---	---
11G	Ant1	2412	17.147	2403.3492	2420.4962	---	---
		2437	17.443	2428.2100	2445.6530	---	---
		2462	17.161	2453.3254	2470.4864	---	---
11N20SISO	Ant1	2412	17.688	2403.2503	2420.9383	---	---
		2437	17.775	2428.1521	2445.9271	---	---
		2462	17.733	2453.1743	2470.9073	---	---

Test Graphs

11B_Ant1_2412



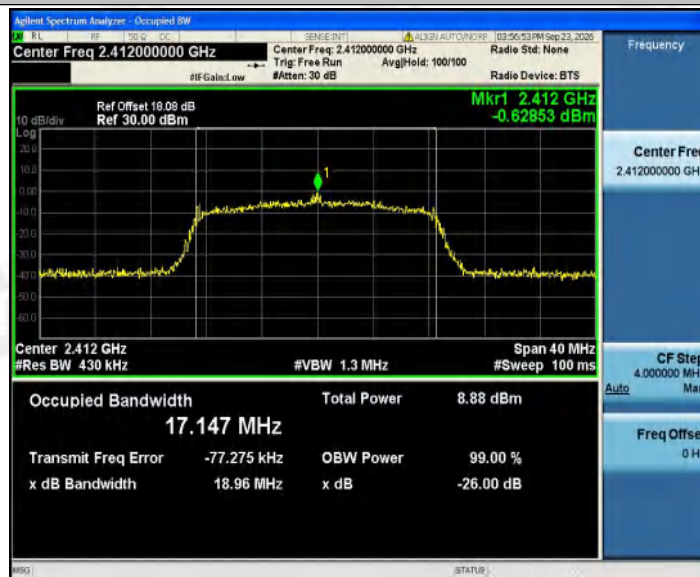
11B_Ant1_2437



11B_Ant1_2462



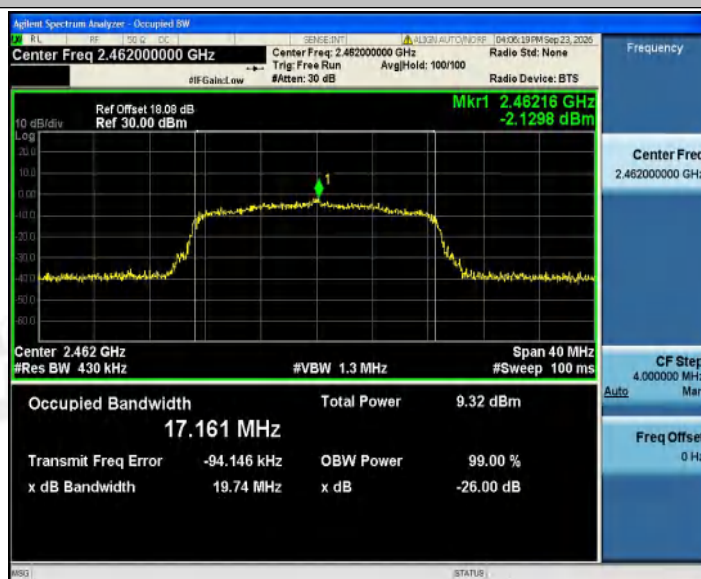
11G_Ant1_2412



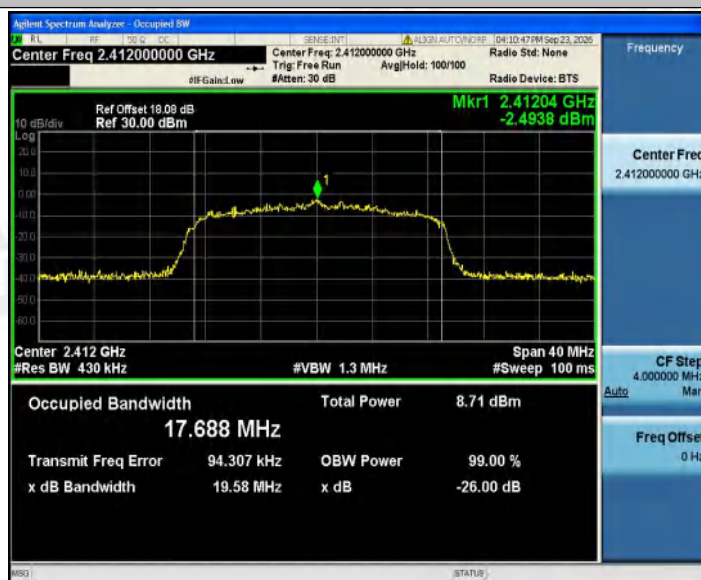
11G_Ant1_2437



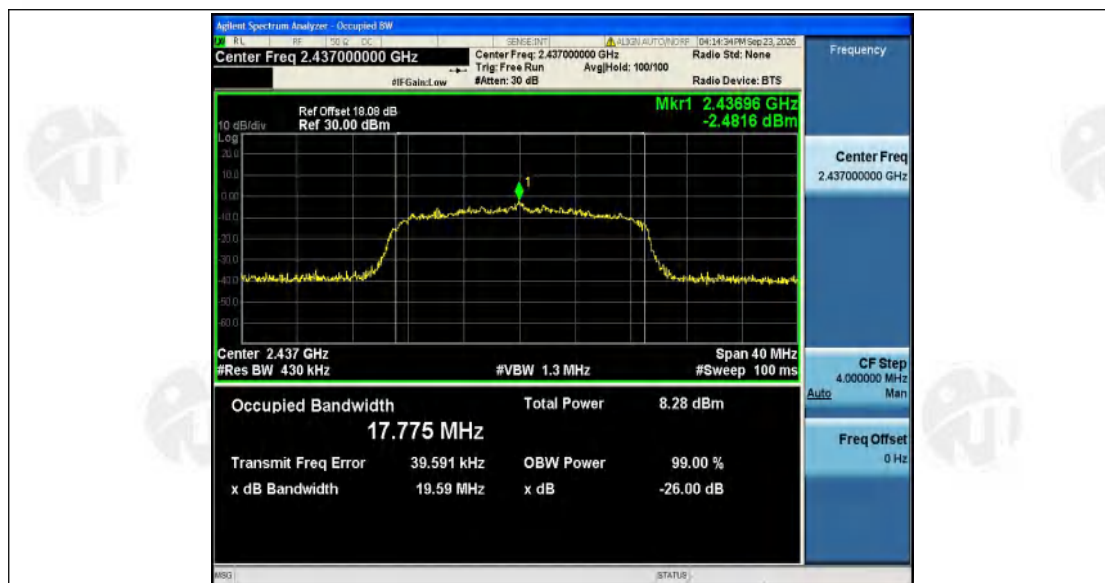
11G_Ant1_2462



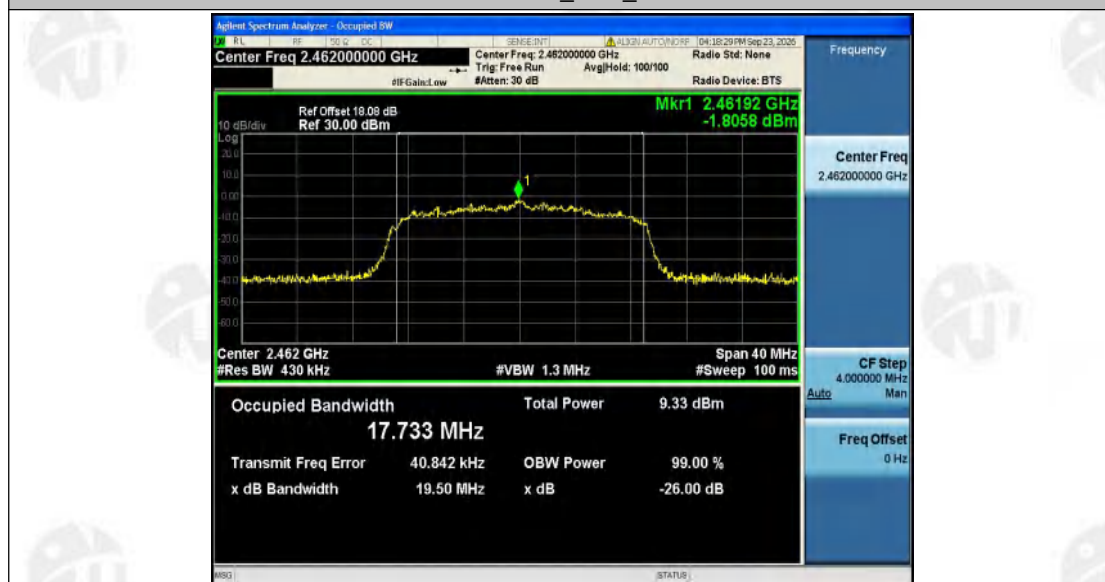
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

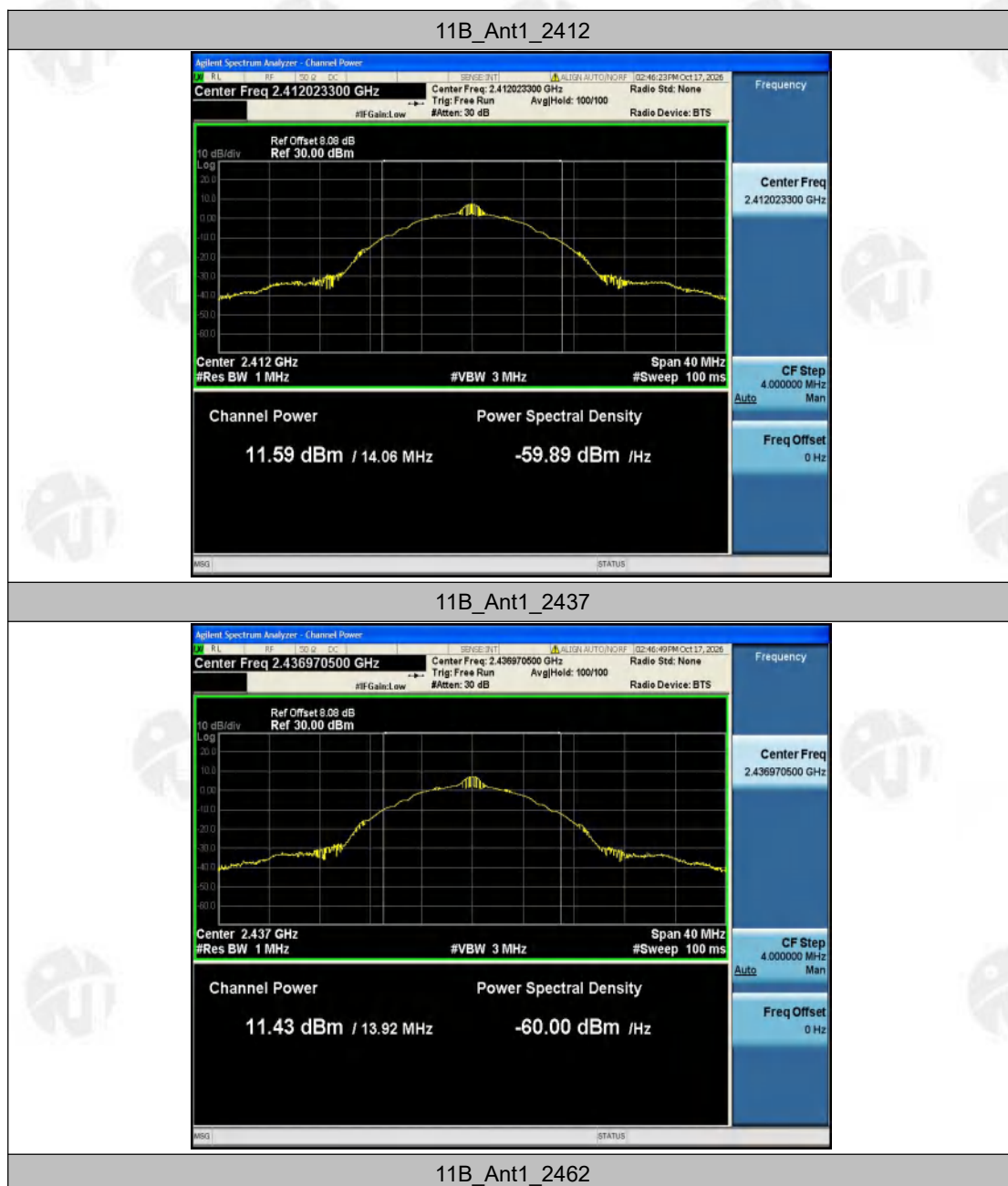


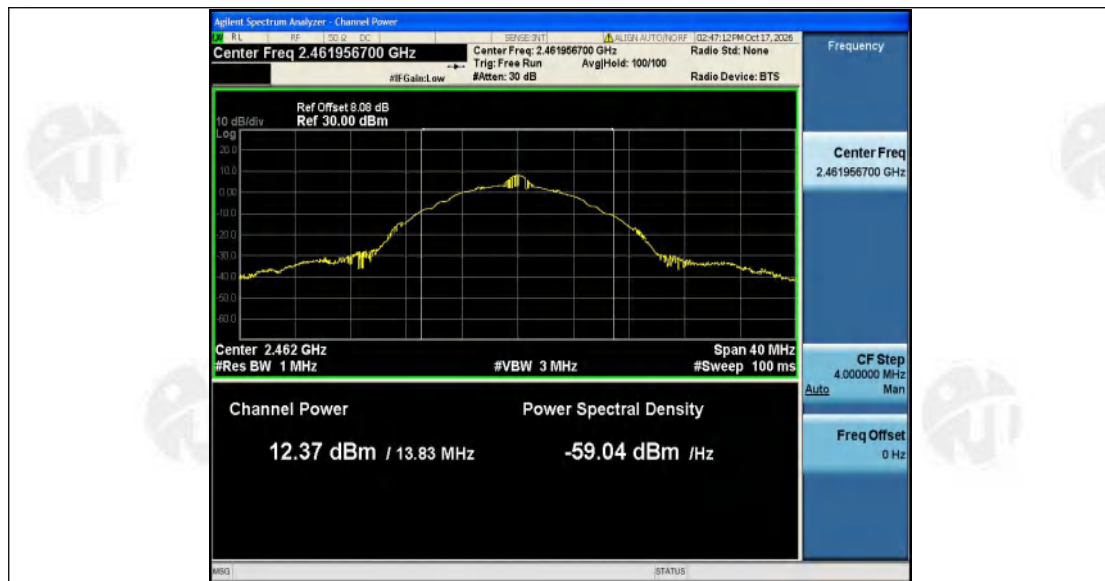
Appendix C: Maximum conducted output power

Test Result Peak

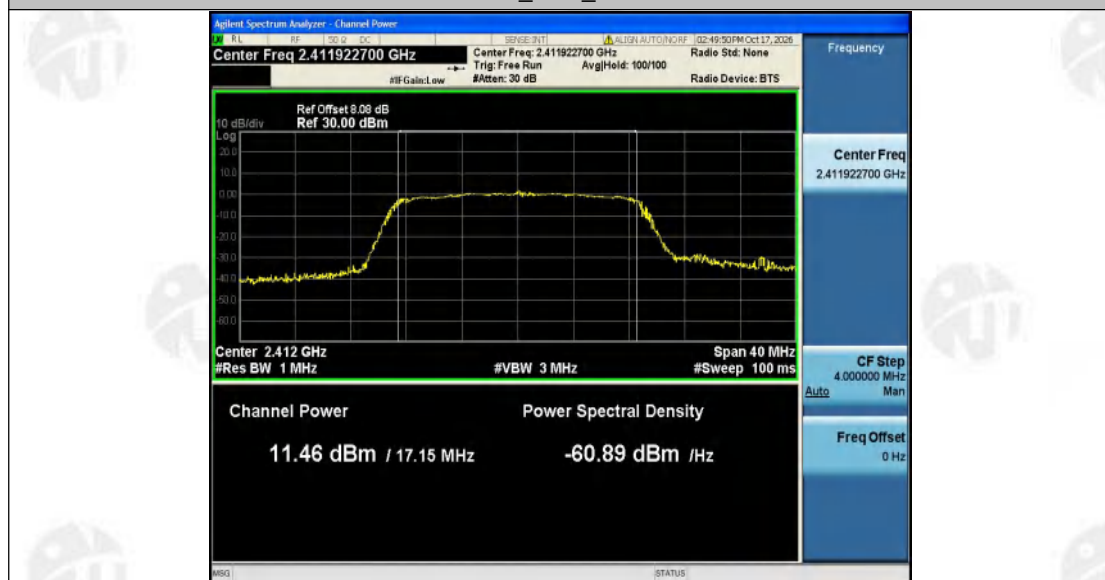
TestMode	Antenna	Channel	Set Power	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	---	11.59	≤30.00
		2437	---	11.43	≤30.00
		2462	---	12.37	≤30.00
11G	Ant1	2412	---	11.46	≤30.00
		2437	---	11.68	≤30.00
		2462	---	12.51	≤30.00
11N20SIS O	Ant1	2412	---	11.88	≤30.00
		2437	---	11.82	≤30.00
		2462	---	12.66	≤30.00

Test Graphs Peak

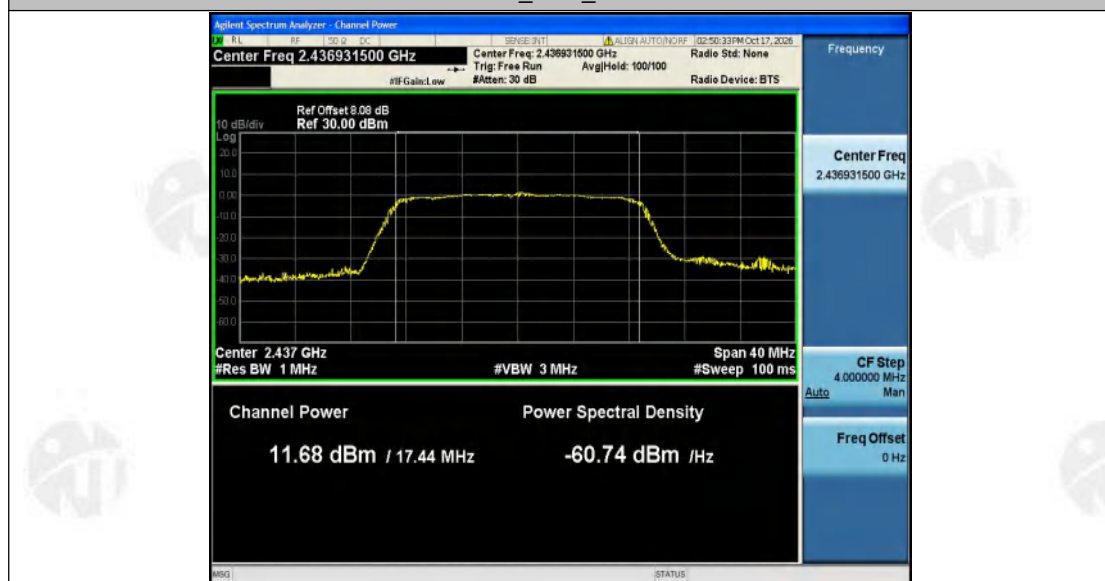




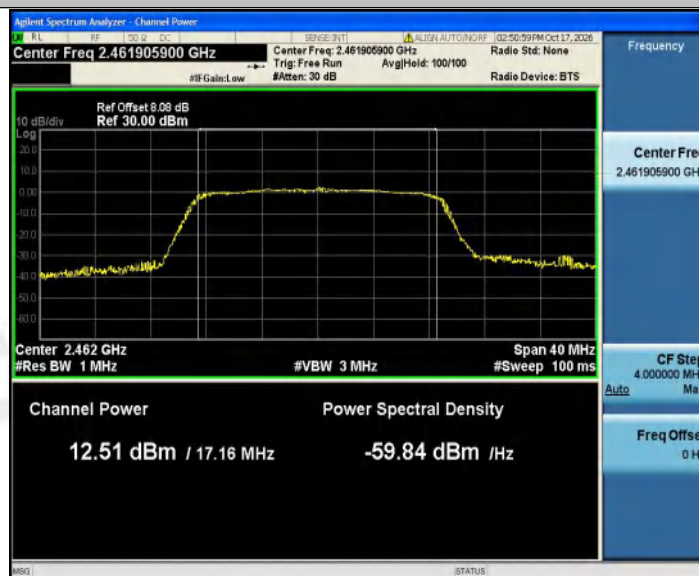
11G_Ant1_2412



11G_Ant1_2437



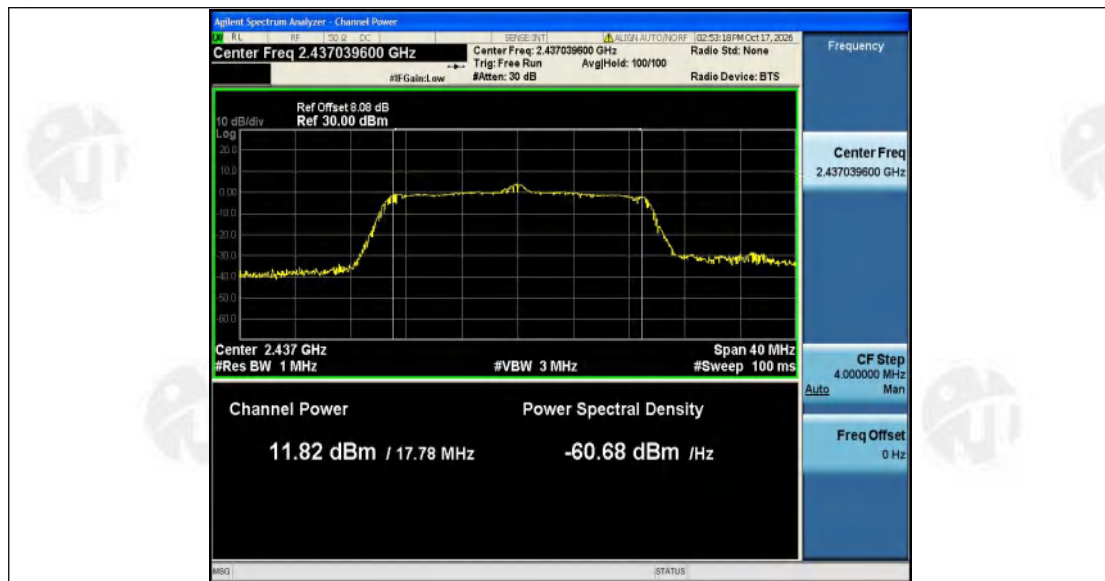
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	8.75	≤8.00	PASS
		2437	6.52	≤8.00	PASS
		2462	6.61	≤8.00	PASS
11G	Ant1	2412	3.90	≤8.00	PASS
		2437	2.79	≤8.00	PASS
		2462	4.01	≤8.00	PASS
11N20SISO	Ant1	2412	2.77	≤8.00	PASS
		2437	2.91	≤8.00	PASS
		2462	2.53	≤8.00	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462



11G_Ant1_2412



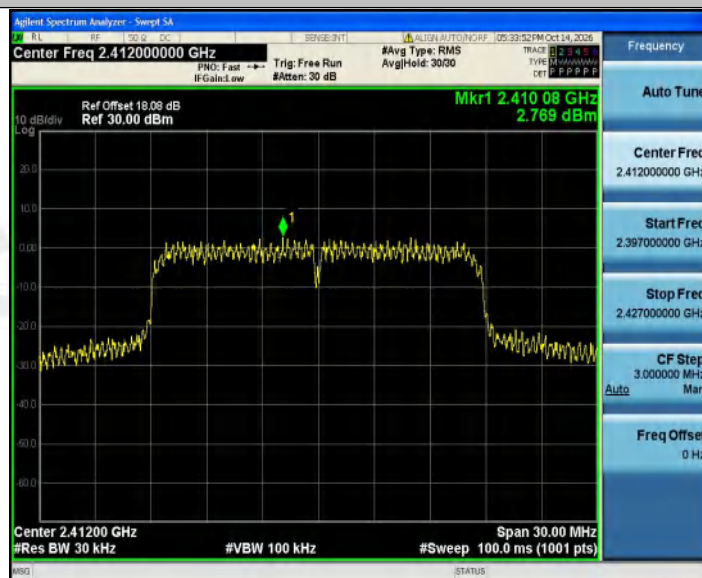
11G_Ant1_2437



11G_Ant1_2462



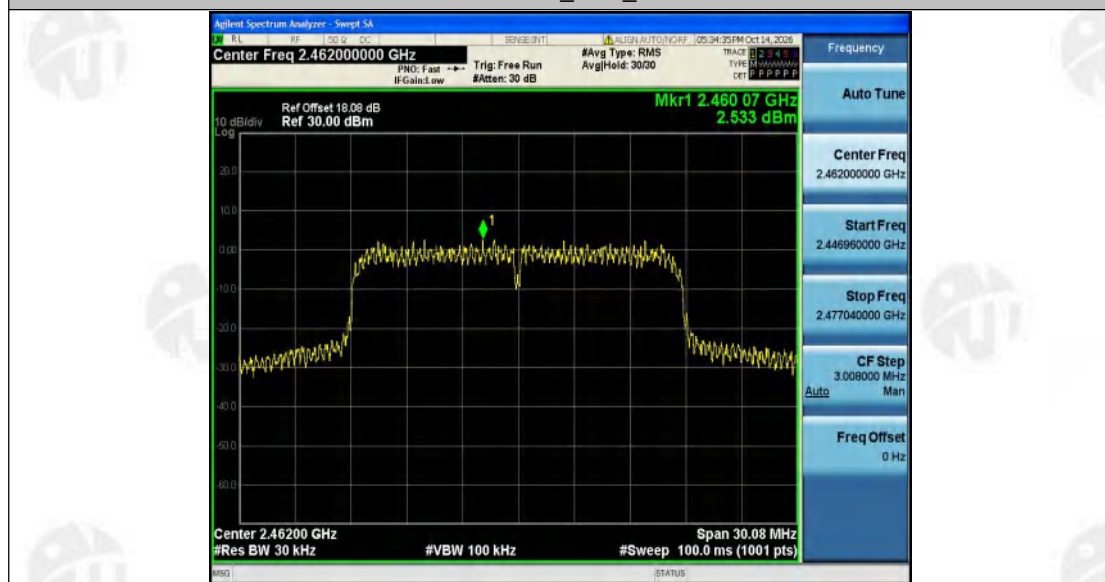
11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



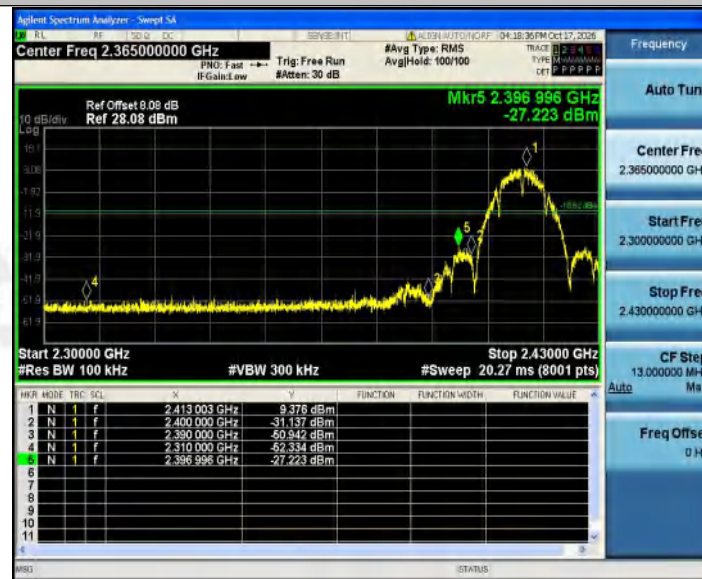
Appendix E: Band edge measurements

Test Result

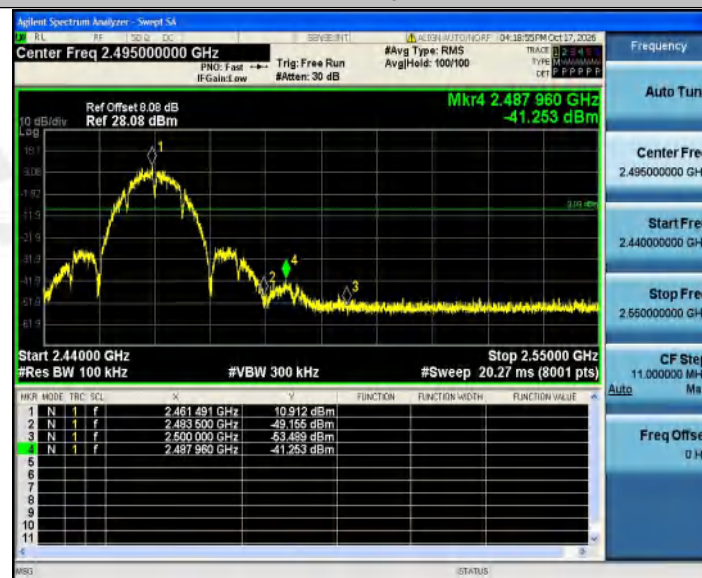
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	9.38	-27.22	≤ -10.62	PASS
		High	2462	10.91	-41.25	≤ -9.09	PASS
11G	Ant1	Low	2412	3.33	-36.44	≤ -16.67	PASS
		High	2462	3.06	-37.33	≤ -16.94	PASS
11N20SISO	Ant1	Low	2412	4.59	-32.93	≤ -15.41	PASS
		High	2462	7.20	-31.16	≤ -12.8	PASS

Test Graphs

11B_Ant1_Low_2412



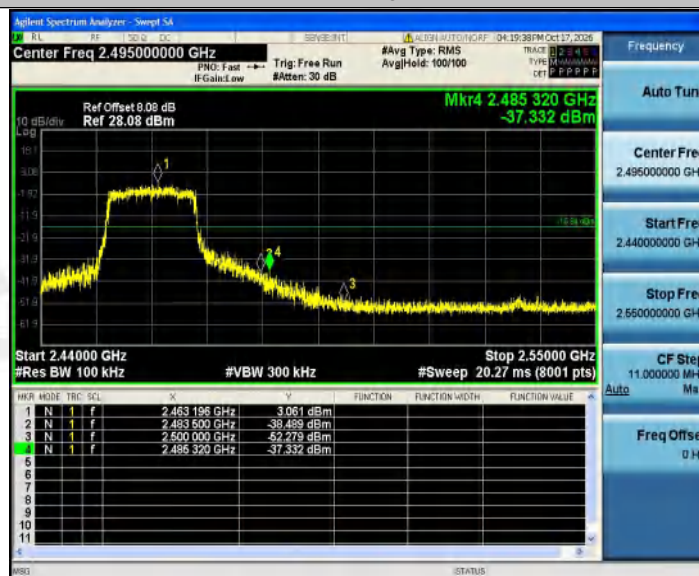
11B_Ant1_High_2462



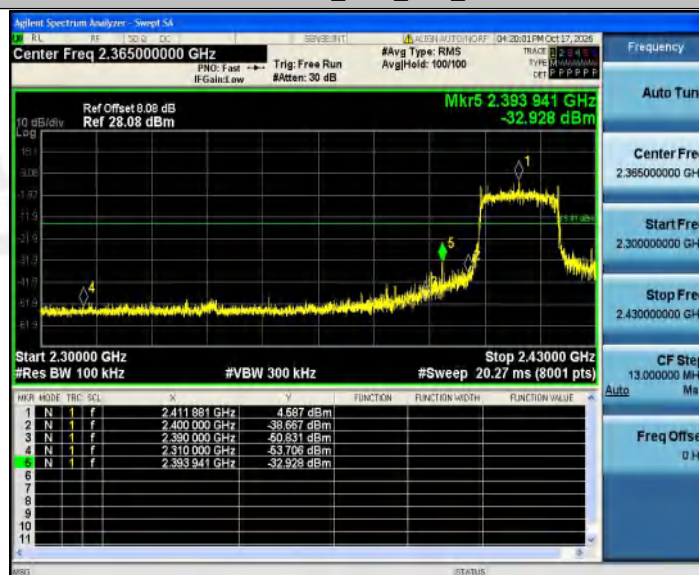
11G_Ant1_Low_2412

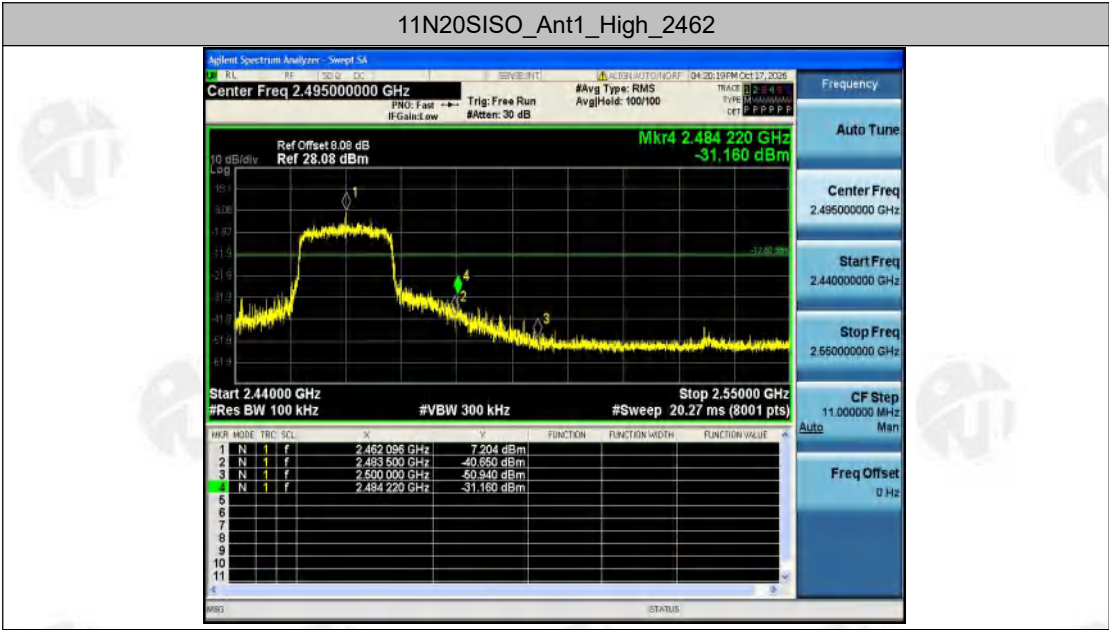


11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412





Appendix F: Conducted Spurious Emission

Test Result

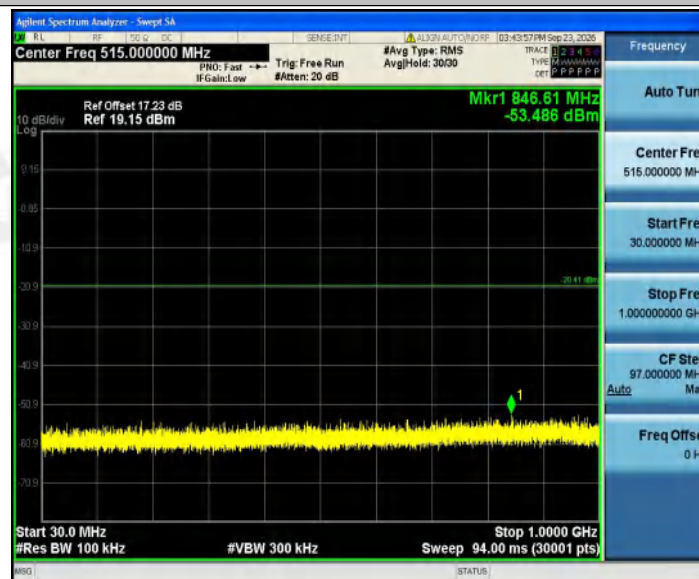
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-53.49	≤-20.41	PASS
			1000~26500	-0.41	-39.21	≤-20.41	PASS
		2437	Reference	-2.88	-2.88	---	PASS
			30~1000	-2.88	-53.77	≤-22.88	PASS
			1000~26500	-2.88	-38.87	≤-22.88	PASS
		2462	Reference	-1.62	-1.62	---	PASS
			30~1000	-1.62	-53.45	≤-21.62	PASS
			1000~26500	-1.62	-39.62	≤-21.62	PASS
11G	Ant1	2412	Reference	-7.18	-7.18	---	PASS
			30~1000	-7.18	-52.86	≤-27.18	PASS
			1000~26500	-7.18	-37.92	≤-27.18	PASS
		2437	Reference	-7.72	-7.72	---	PASS
			30~1000	-7.72	-54.29	≤-27.72	PASS
			1000~26500	-7.72	-39.34	≤-27.72	PASS
		2462	Reference	-7.32	-7.32	---	PASS
			30~1000	-7.32	-52.88	≤-27.32	PASS
			1000~26500	-7.32	-38.89	≤-27.32	PASS
11N20SISO	Ant1	2412	Reference	-7.14	-7.14	---	PASS
			30~1000	-7.14	-52.88	≤-27.14	PASS
			1000~26500	-7.14	-39.6	≤-27.14	PASS
		2437	Reference	-9.18	-9.18	---	PASS
			30~1000	-9.18	-53.17	≤-29.18	PASS
			1000~26500	-9.18	-38.84	≤-29.18	PASS
		2462	Reference	-7.41	-7.41	---	PASS
			30~1000	-7.41	-53.44	≤-27.41	PASS
			1000~26500	-7.41	-39.89	≤-27.41	PASS

Test Graphs

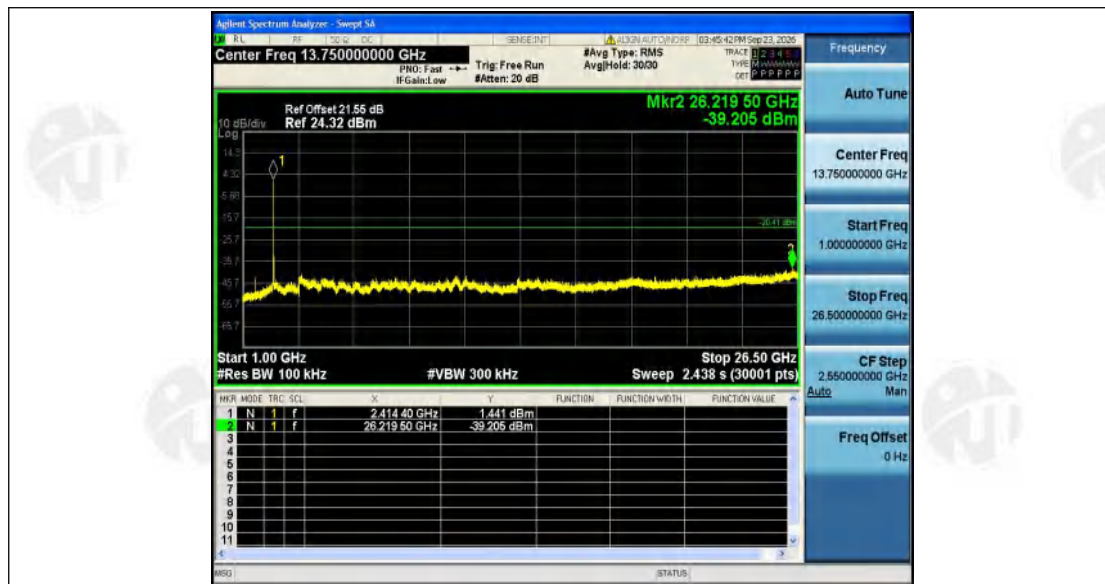
11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



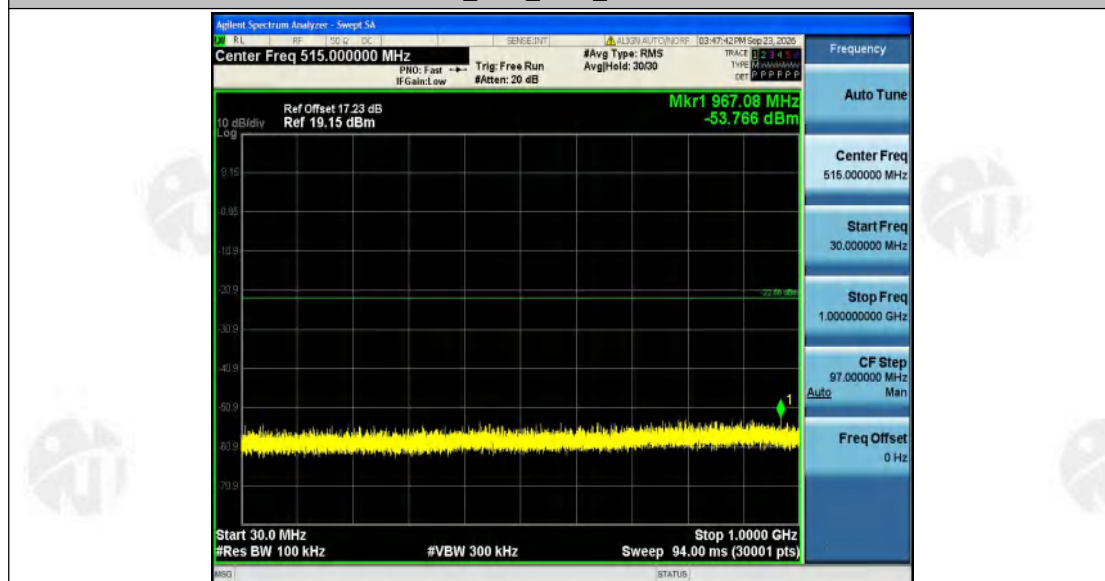
11B_Ant1_2412_1000~26500



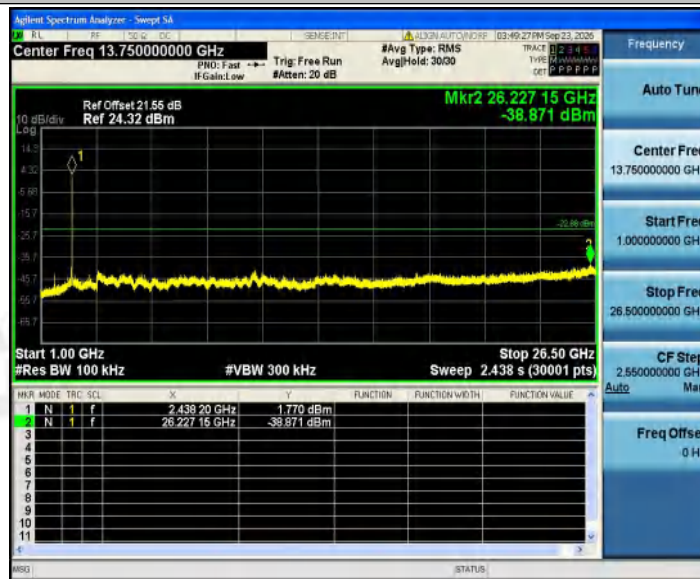
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



11B_Ant1_2437_1000~26500



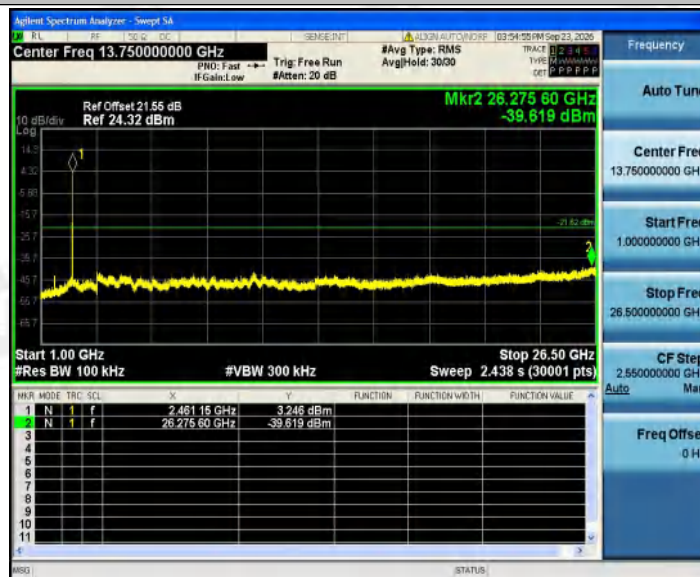
11B_Ant1_2462_0~Reference



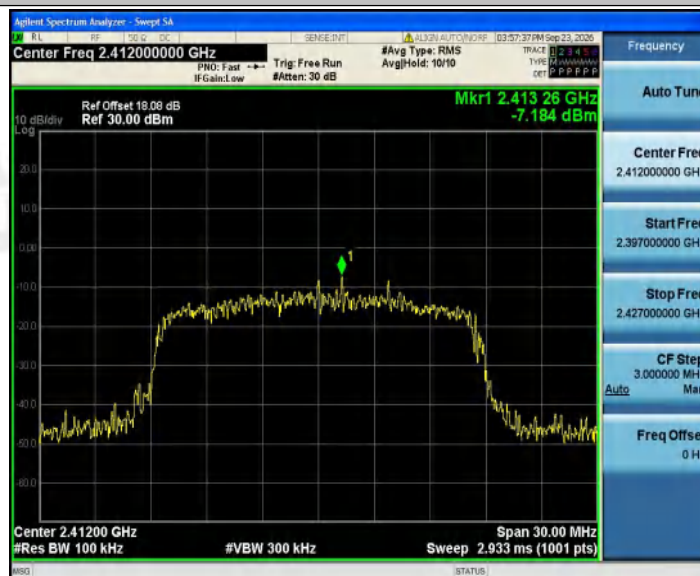
11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500



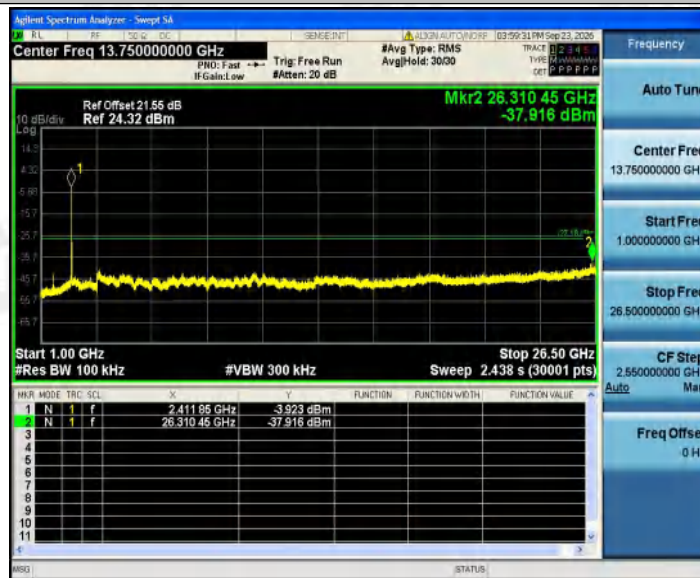
11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



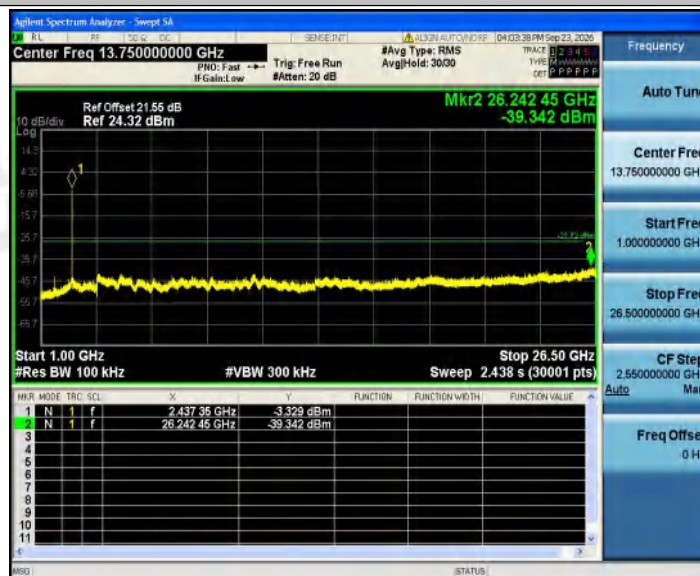
11G_Ant1_2437_0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



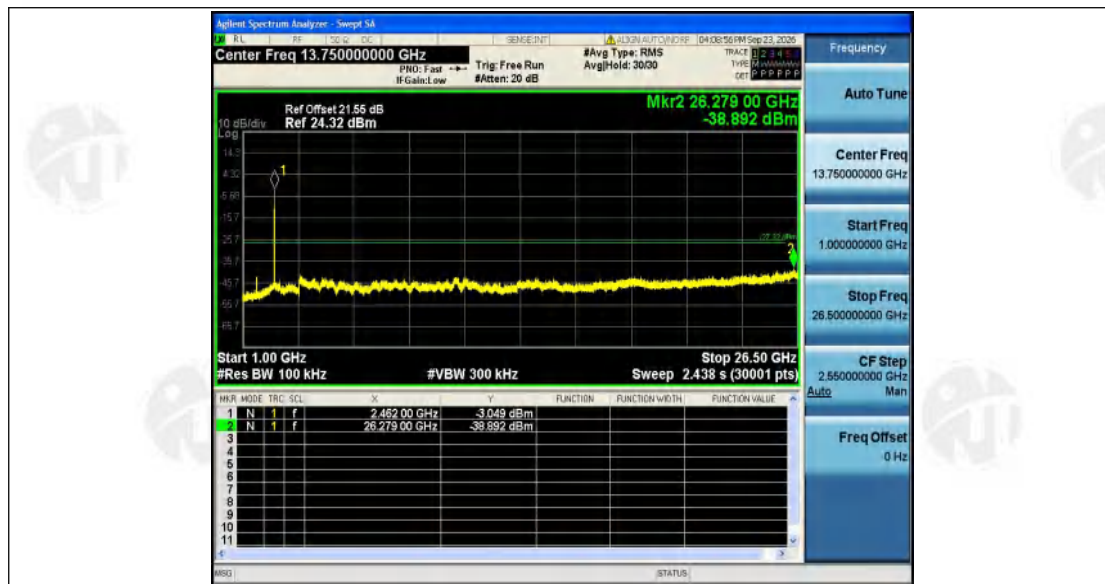
11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500



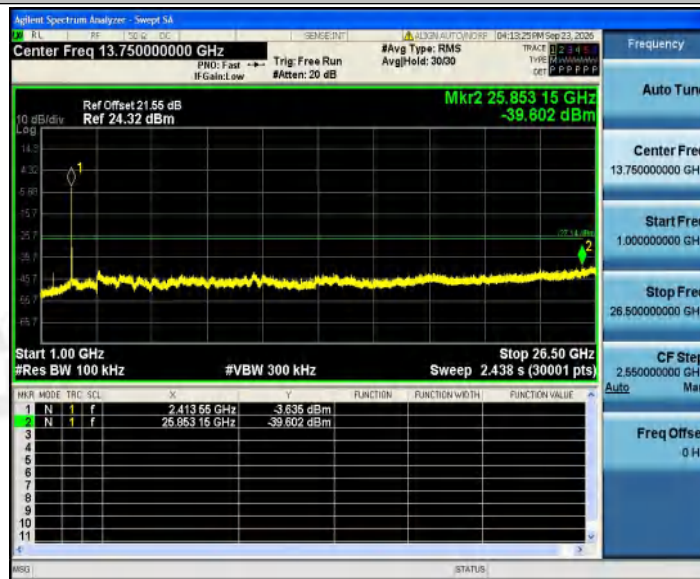
11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



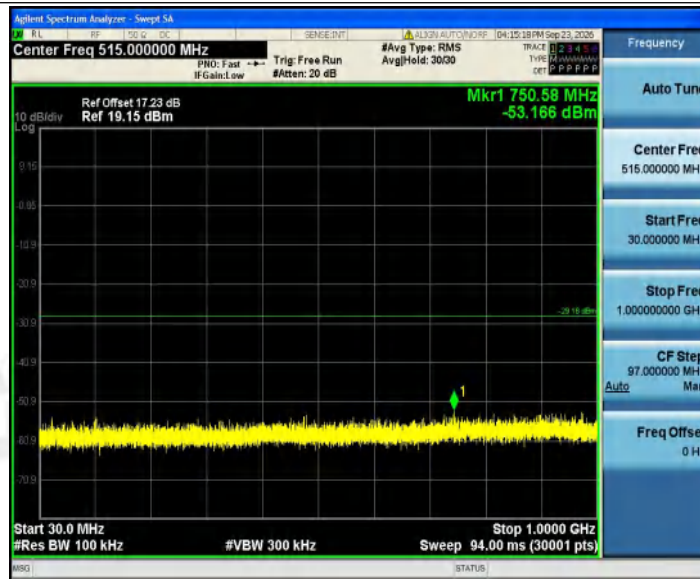
11N20SISO_Ant1_2412_1000~26500



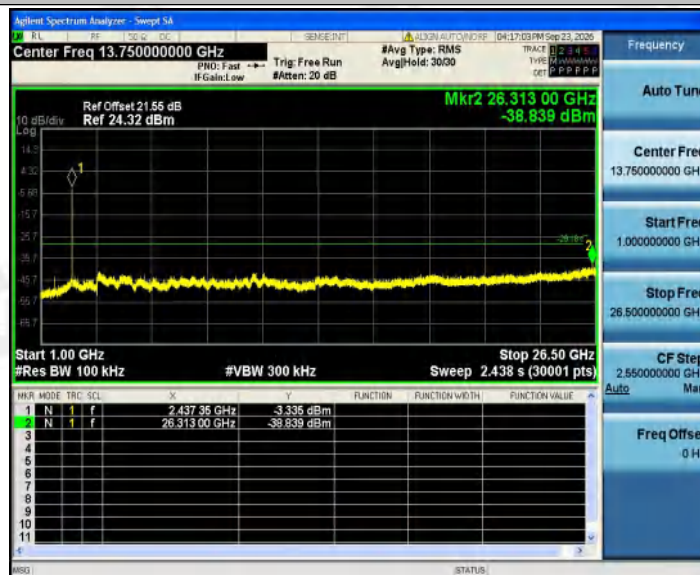
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500



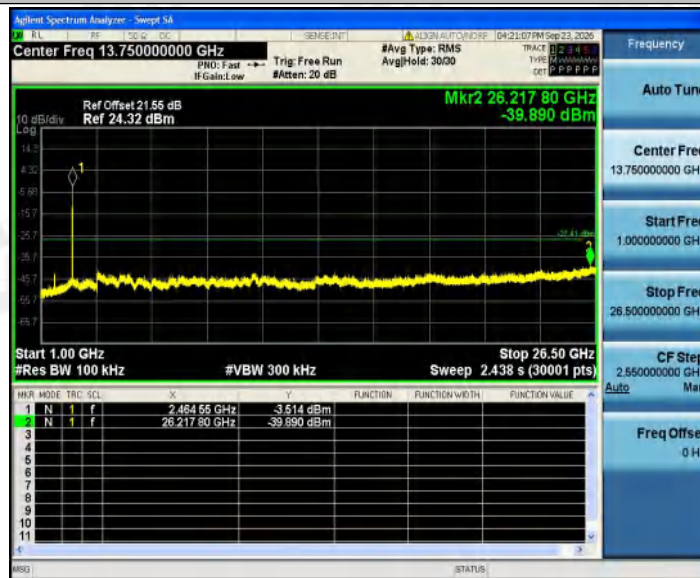
11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	8.38	8.47	98.94	---	---
		2437	8.39	8.48	98.94	---	---
		2462	8.38	8.47	98.94	---	---
11G	Ant1	2412	5.49	5.72	95.98	---	---
		2437	5.49	5.72	95.98	---	---
		2462	5.49	5.72	95.98	---	---
11N20SISO	Ant1	2412	0.16	0.17	94.12	---	---
		2437	0.16	0.18	88.89	---	---
		2462	0.16	0.17	94.12	---	---

The image displays two screenshots of an Agilent Spectrum Analyzer, showing signal measurements for two different antennas, 11B_Ant1_2412 and 11B_Ant1_2437.

Top Screenshot (11B_Ant1_2412):

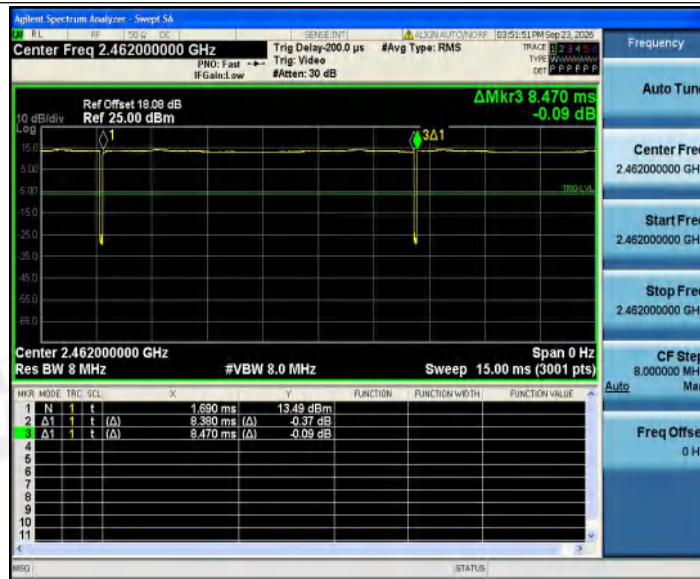
- Center Freq:** 2.412000000 GHz
- Ref Offset:** 18.00 dB
- Ref:** 25.00 dBm
- ΔMkr3:** 8.470 ms, -25.39 dB
- Center Freq:** 2.412000000 GHz
- Start Freq:** 2.412000000 GHz
- Stop Freq:** 2.412000000 GHz
- CF Step:** 8.000000 MHz
- Freq Offset:** 0 Hz
- Center Freq:** 2.412000000 GHz
- Res BW:** 8 MHz
- #VBW:** 8.0 MHz
- Sweep:** 10.00 ms (3001 pts)
- Table:**

MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t		1.020 ms	20.08 dBm		
2	Δ1	1	t (Δ)		8.380 ms (Δ)	-1.38 dB		
3	Δ1	1	t (Δ)		8.470 ms (Δ)	-25.39 dB		

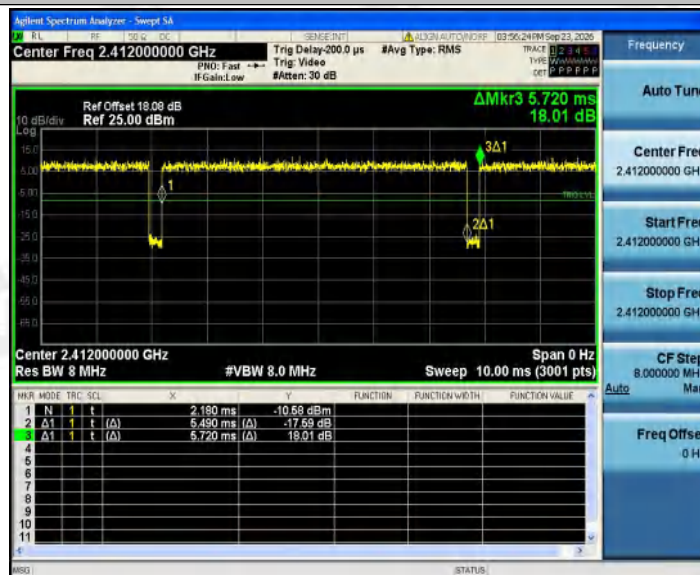
Bottom Screenshot (11B_Ant1_2437):

- Center Freq:** 2.437000000 GHz
- Ref Offset:** 18.00 dB
- Ref:** 25.00 dBm
- ΔMkr3:** 8.480 ms, -0.45 dB
- Center Freq:** 2.437000000 GHz
- Start Freq:** 2.437000000 GHz
- Stop Freq:** 2.437000000 GHz
- CF Step:** 8.000000 MHz
- Freq Offset:** 0 Hz
- Center Freq:** 2.437000000 GHz
- Res BW:** 8 MHz
- #VBW:** 8.0 MHz
- Sweep:** 15.00 ms (3001 pts)
- Table:**

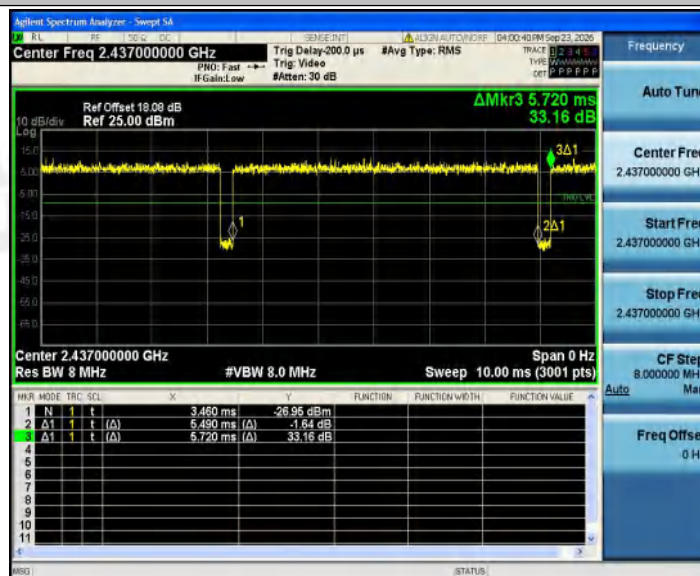
MNR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t		6.310 ms	12.26 dBm		
2	Δ1	1	t (Δ)		8.390 ms (Δ)	-42.22 dB		
3	Δ1	1	t (Δ)		8.480 ms (Δ)	-0.45 dB		



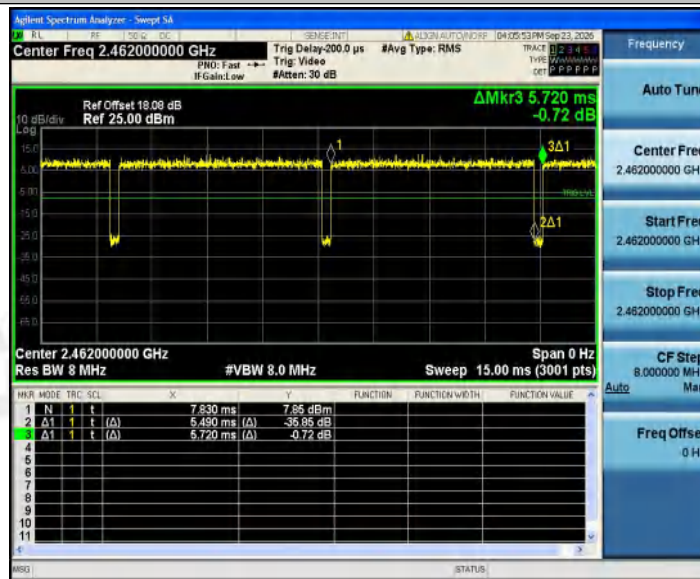
11G_Ant1_2412



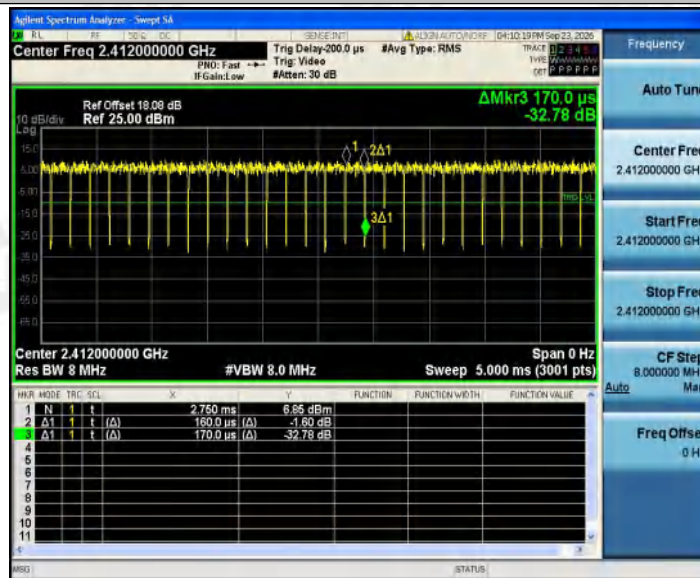
11G_Ant1_2437



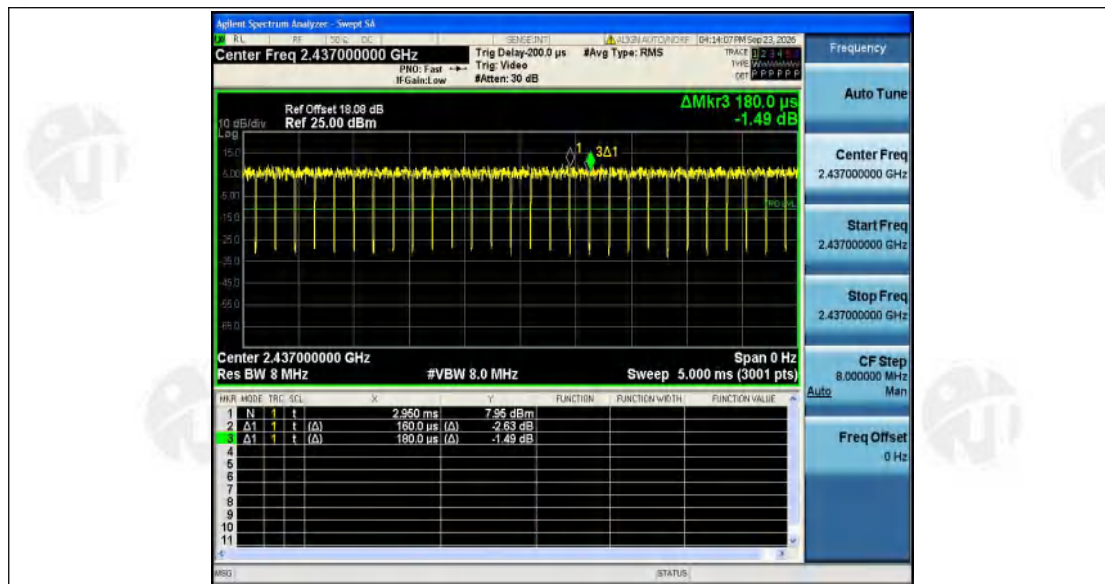
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

