Appendix Test Data

Report No.:	1811C50197112501	Test Sample No.:	1-2-2
Start Test Date:	2025.6.19	Finish Test Date:	2025.6.26
Test Engineer:	Qiangfei Yang	Auditor:	Justin Feng
Temperature:	22.4℃	Relative Humidity:	57%
Pressure:	101kPa		

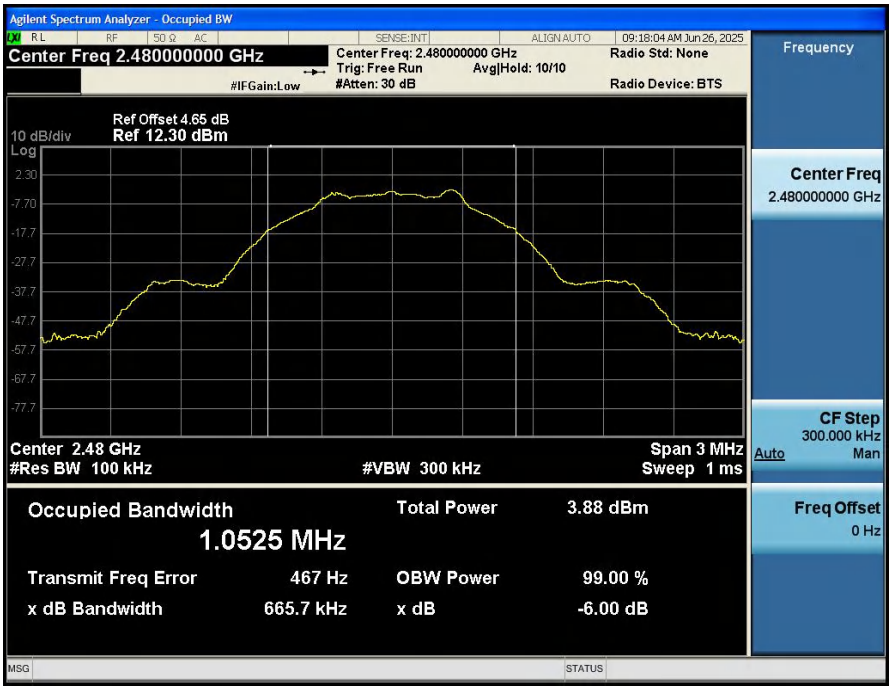
Appendix A: -6dB Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	664.10	500	Pass
NVNT	ANT1	1Mbps	2440.00	670.98	500	Pass
NVNT	ANT1	1Mbps	2480.00	665.74	500	Pass
NVNT	ANT1	2Mbps	2402.00	1184.31	500	Pass
NVNT	ANT1	2Mbps	2440.00	1179.66	500	Pass
NVNT	ANT1	2Mbps	2480.00	1163.16	500	Pass

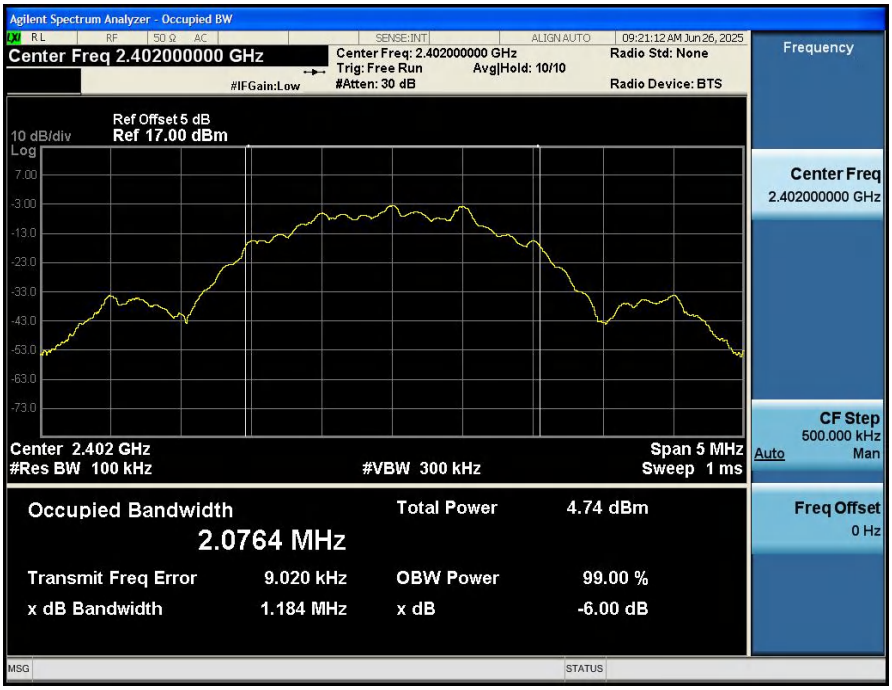
-6dB_Bandwidth_NVNT_ANT1_1Mbps_2402

-6dB_Bandwidth_NVNT_ANT1_1Mbps_2440

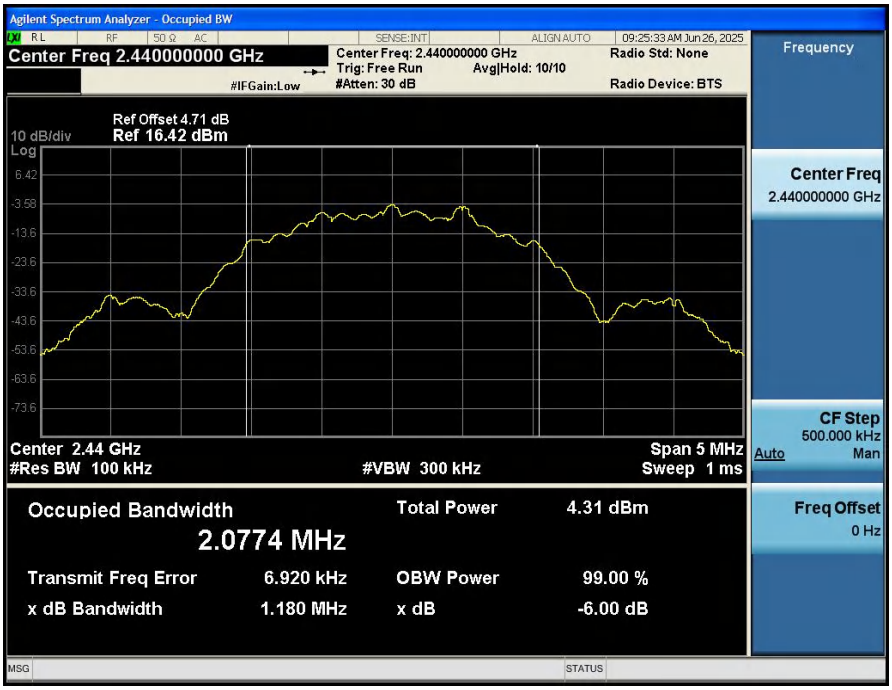
-6dB_Bandwidth_NVNT_ANT1_1Mbps_2480



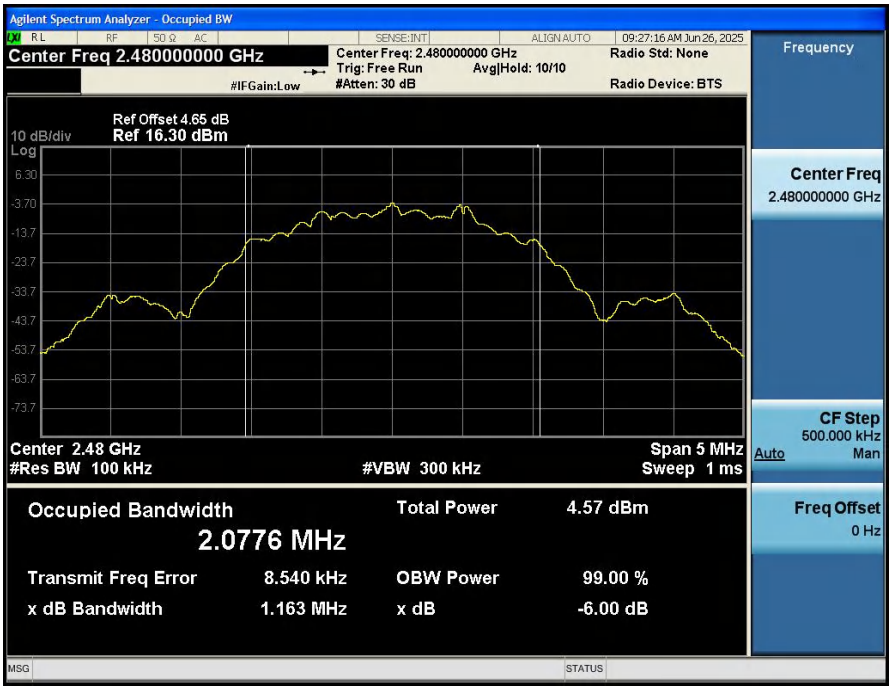
-6dB_Bandwidth_NVNT_ANT1_2Mbps_2402



-6dB_Bandwidth_NVNT_ANT1_2Mbps_2440



-6dB_Bandwidth_NVNT_ANT1_2Mbps_2480

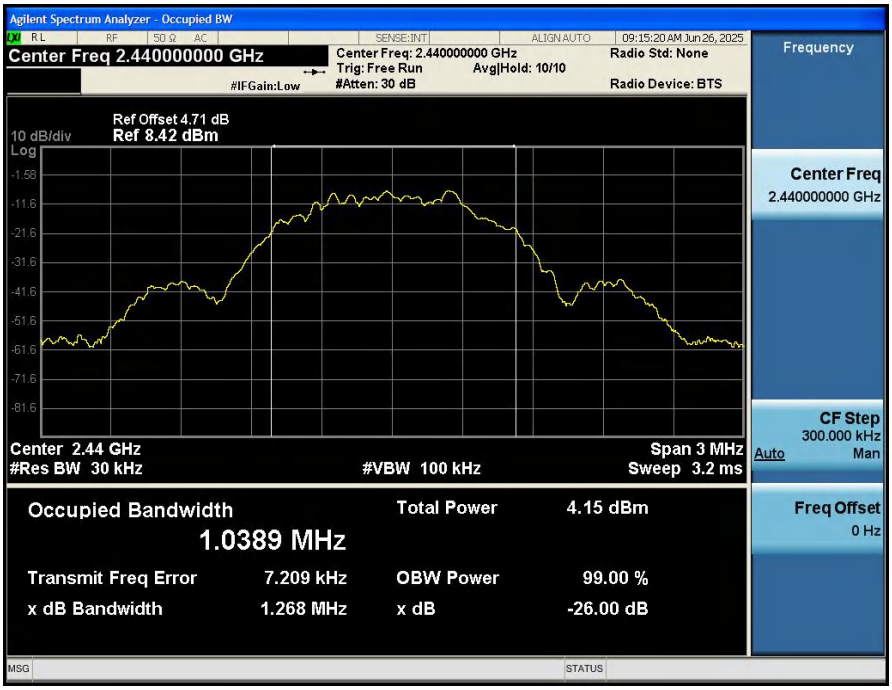


Appendix B: 99% Occupied Bandwidth

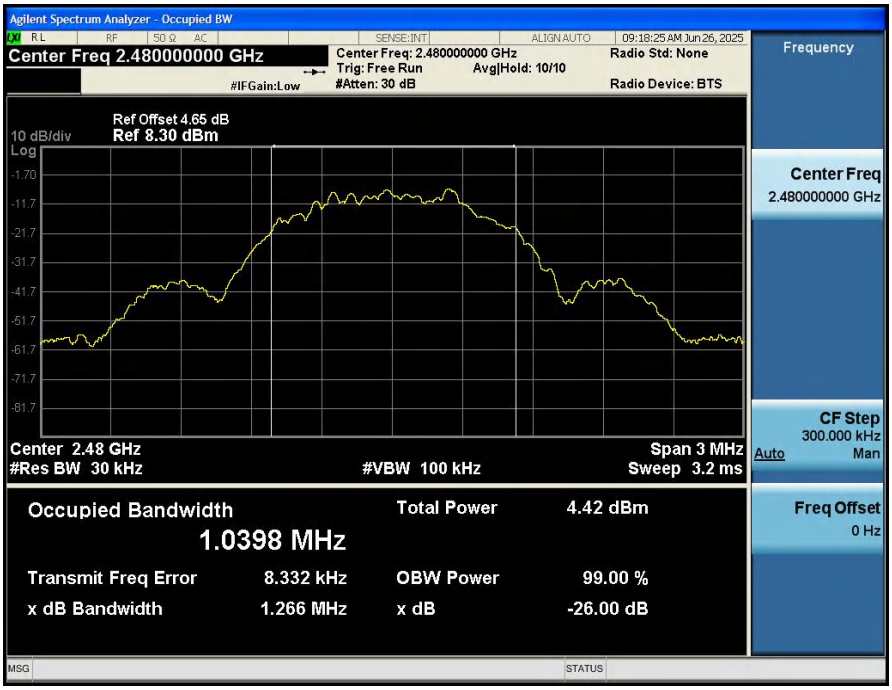
Condition	Antenna	Rate	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	1Mbps	2402.00	1.039
NVNT	ANT1	1Mbps	2440.00	1.039
NVNT	ANT1	1Mbps	2480.00	1.040
NVNT	ANT1	2Mbps	2402.00	2.077
NVNT	ANT1	2Mbps	2440.00	2.077
NVNT	ANT1	2Mbps	2480.00	2.077

99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps_2402

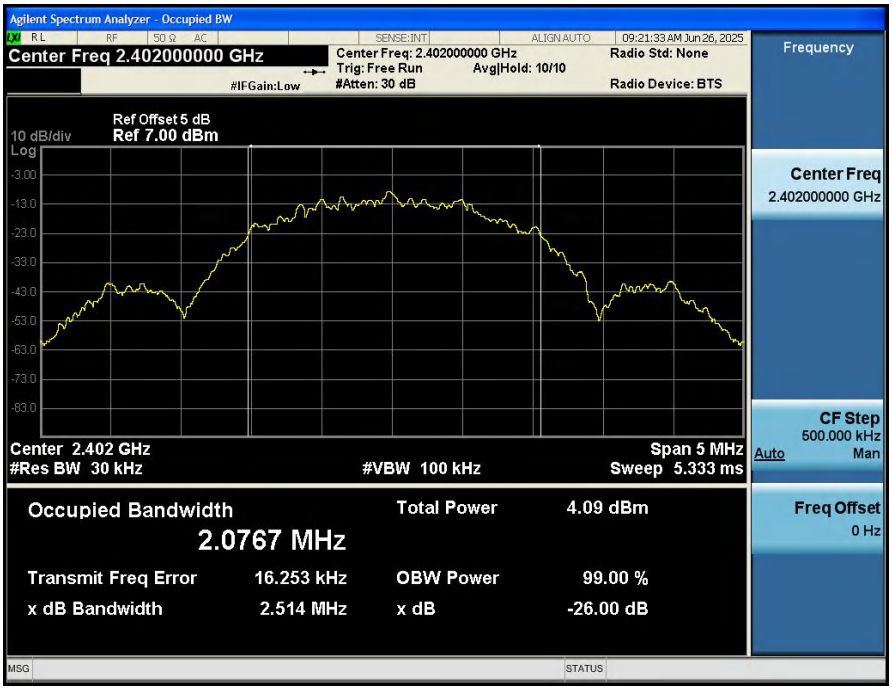
99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps_2440



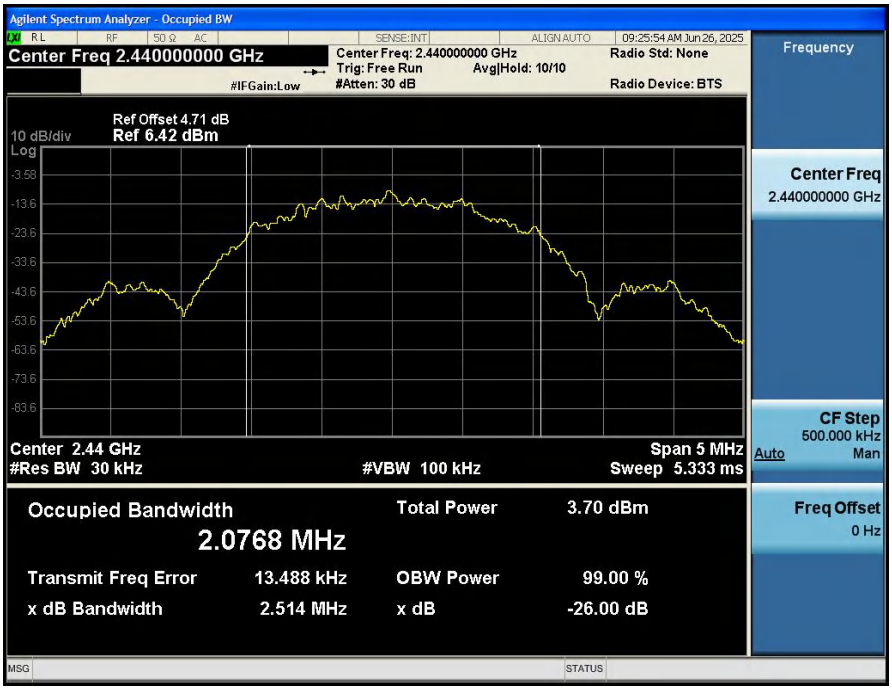
99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps_2480



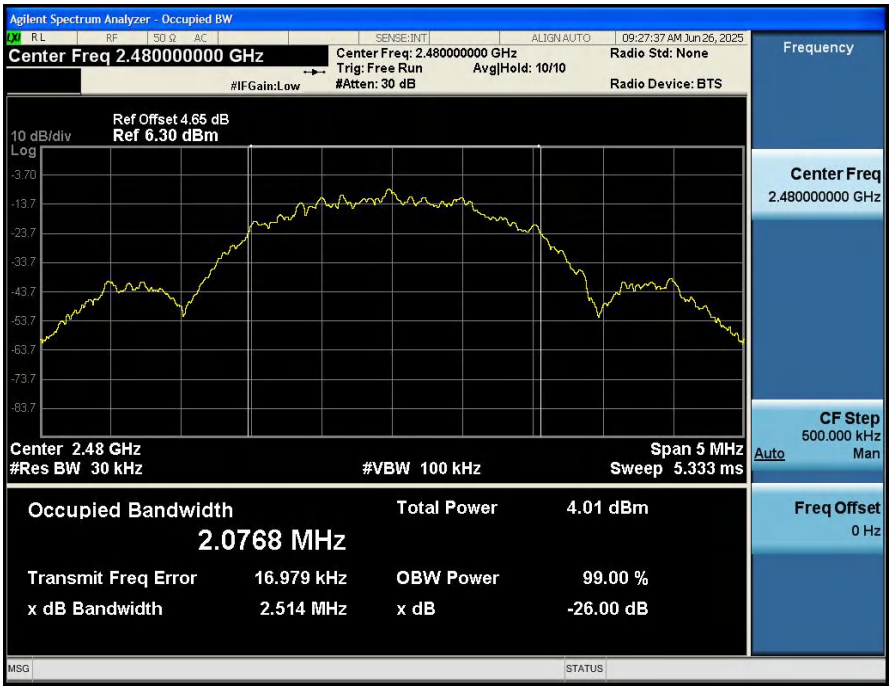
99%_Occupied_Bandwidth_NVNT_ANT1_2Mbps_2402



99%_Occupied_Bandwidth_NVNT_ANT1_2Mbps_2440



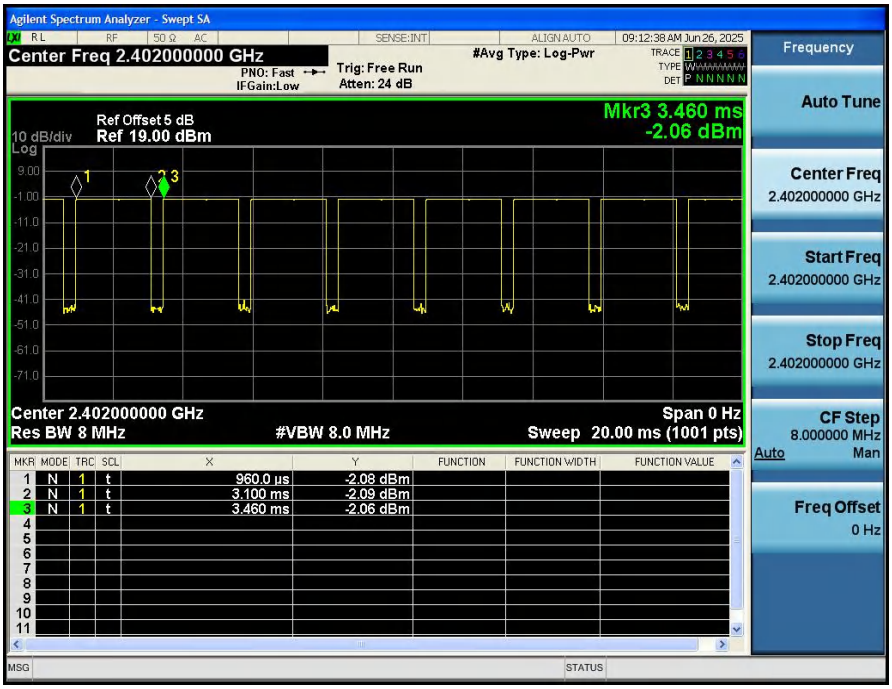
99%_Occupied_Bandwidth_NVNT_ANT1_2Mbps_2480



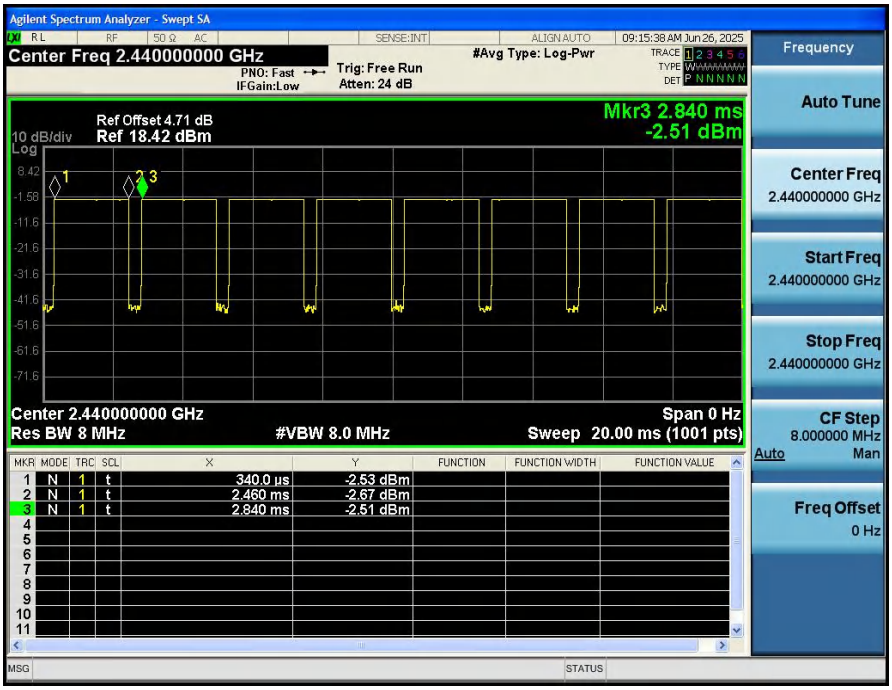
Appendix C: Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	86.40	0.63
NVNT	ANT1	1Mbps	2440.00	84.80	0.72
NVNT	ANT1	1Mbps	2480.00	85.60	0.68
NVNT	ANT1	2Mbps	2402.00	57.45	2.41
NVNT	ANT1	2Mbps	2440.00	56.38	2.49
NVNT	ANT1	2Mbps	2480.00	57.45	2.41

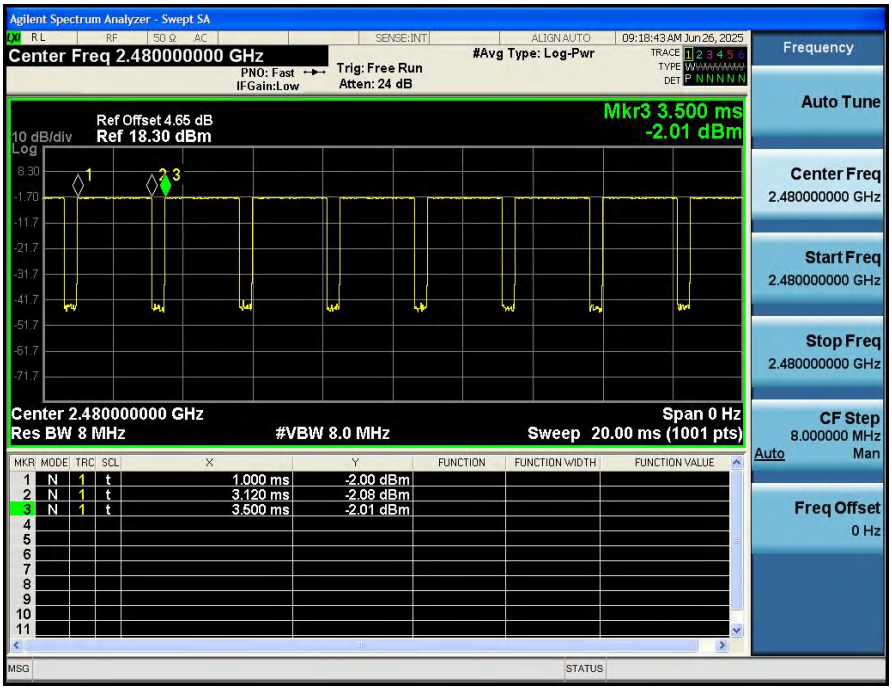
Duty_Cycle_NVNT_ANT1_1Mbps_2402



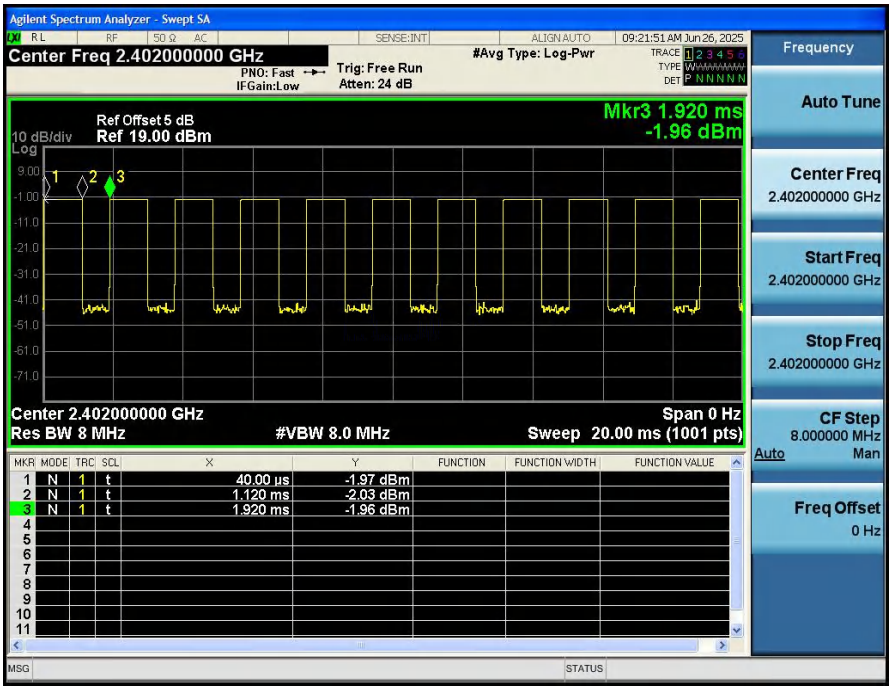
Duty_Cycle_NVNT_ANT1_1Mbps_2440



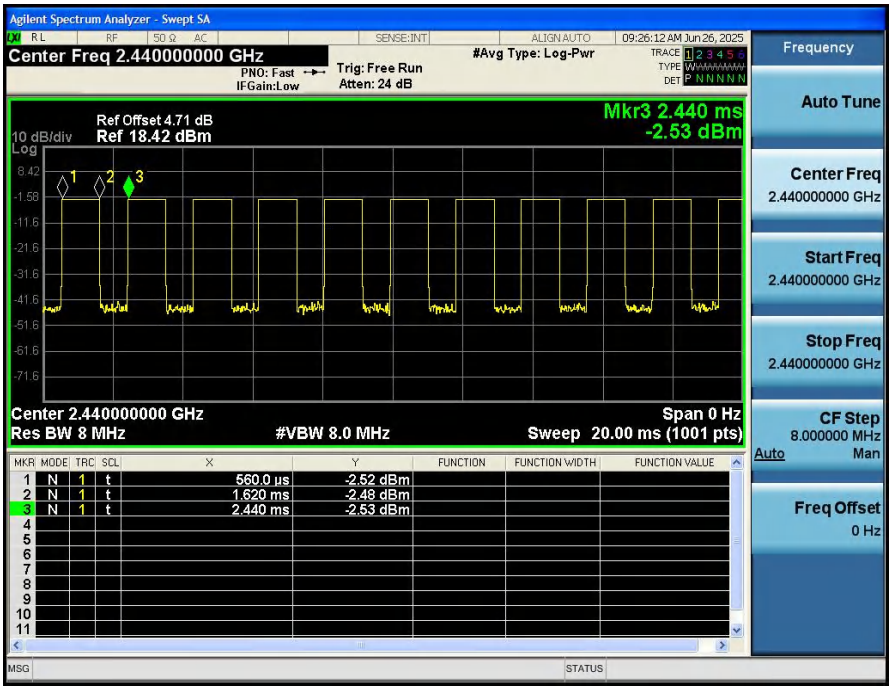
Duty_Cycle_NVNT_ANT1_1Mbps_2480



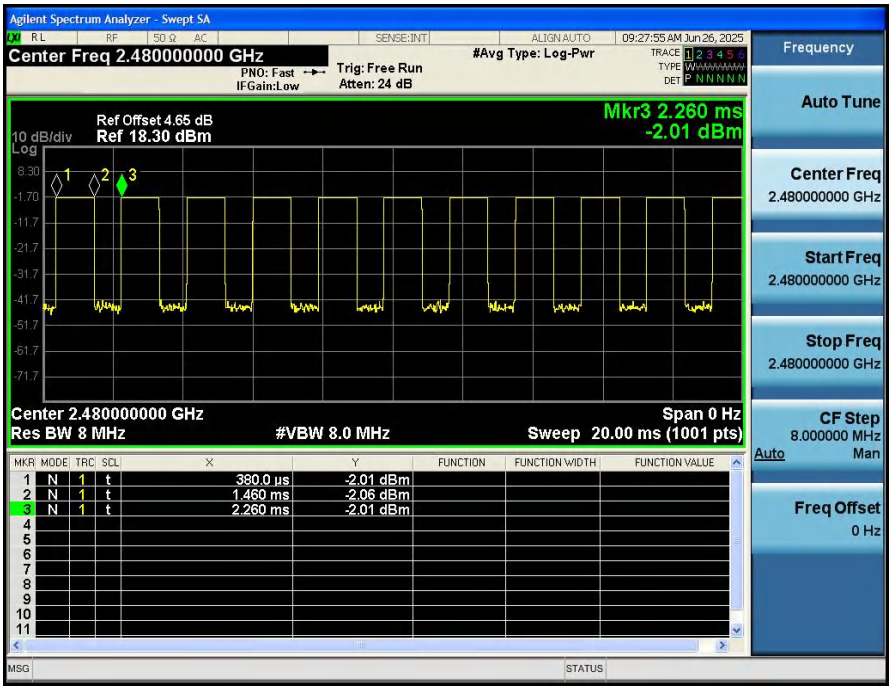
Duty_Cycle_NVNT_ANT1_2Mbps_2402



Duty_Cycle_NVNT_ANT1_2Mbps_2440



Duty_Cycle_NVNT_ANT1_2Mbps_2480



Appendix D: Peak Output Power

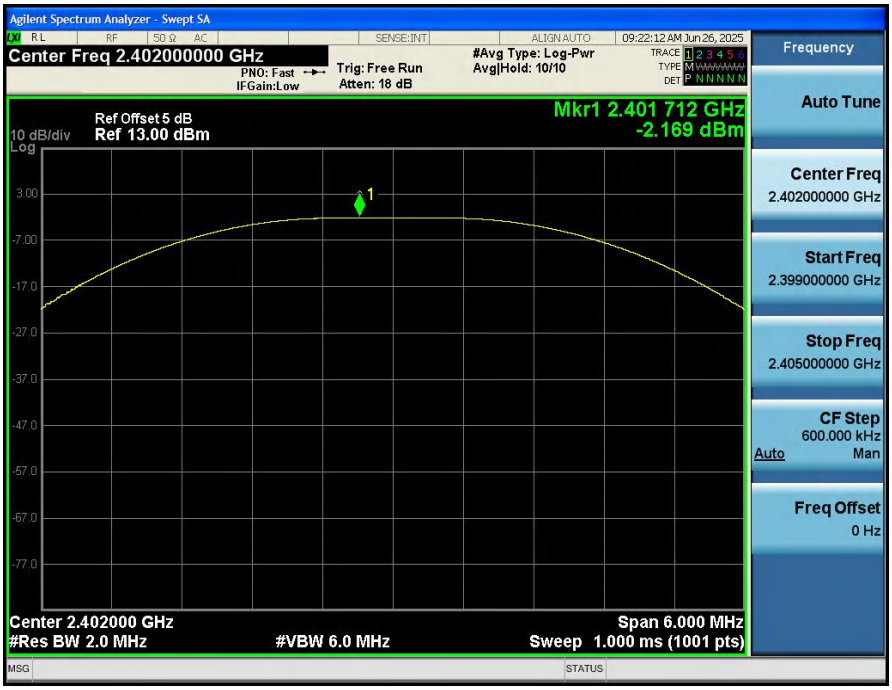
Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	**-2.08**	0.62	1000	Pass
NVNT	ANT1	1Mbps	2440.00	-2.62	0.55	1000	Pass
NVNT	ANT1	1Mbps	2480.00	-2.17	0.61	1000	Pass
NVNT	ANT1	2Mbps	2402.00	-2.17	0.61	1000	Pass
NVNT	ANT1	2Mbps	2440.00	-2.71	0.54	1000	Pass
NVNT	ANT1	2Mbps	2480.00	-2.25	0.60	1000	Pass

Peak_Output_Power_NVNT_ANT1_1Mbps_2402

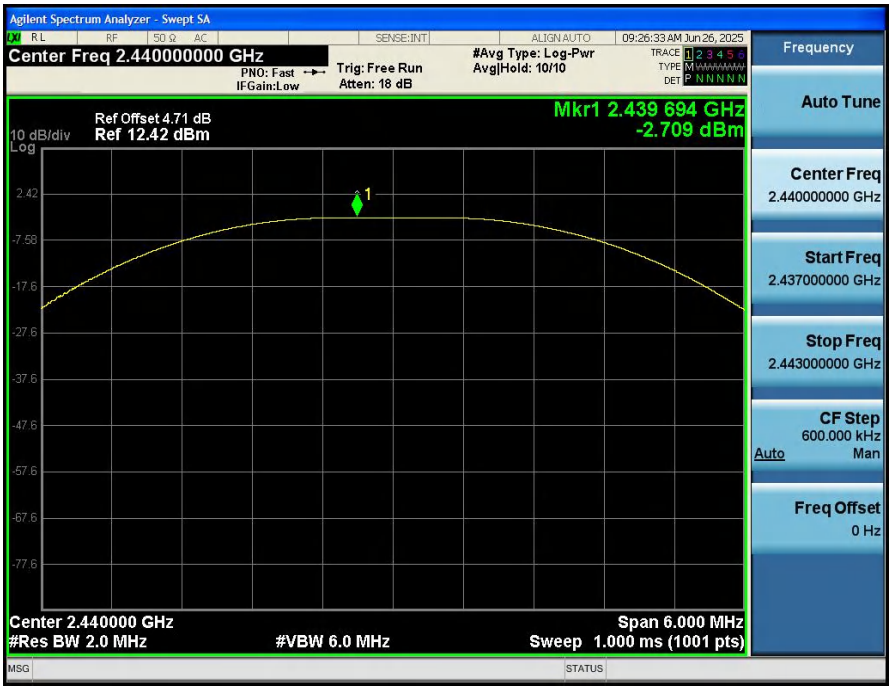
Peak_Output_Power_NVNT_ANT1_1Mbps_2440

Peak_Output_Power_NVNT_ANT1_1Mbps_2480

Peak_Output_Power_NVNT_ANT1_2Mbps_2402



Peak_Output_Power_NVNT_ANT1_2Mbps_2440



Peak_Output_Power_NVNT_ANT1_2Mbps_2480

Appendix E: Power Spectral Density

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-18.23	8	Pass
NVNT	ANT1	1Mbps	2440.00	-18.74	8	Pass
NVNT	ANT1	1Mbps	2480.00	-18.41	8	Pass
NVNT	ANT1	2Mbps	2402.00	-21.60	8	Pass
NVNT	ANT1	2Mbps	2440.00	-21.59	8	Pass
NVNT	ANT1	2Mbps	2480.00	-21.34	8	Pass

Power_Spectral_Density_NVNT_ANT1_1Mbps_2402

Power_Spectral_Density_NVNT_ANT1_1Mbps_2440

Power_Spectral_Density_NVNT_ANT1_1Mbps_2480

Power_Spectral_Density_NVNT_ANT1_2Mbps_2402

Power_Spectral_Density_NVNT_ANT1_2Mbps_2440

Power_Spectral_Density_NVNT_ANT1_2Mbps_2480

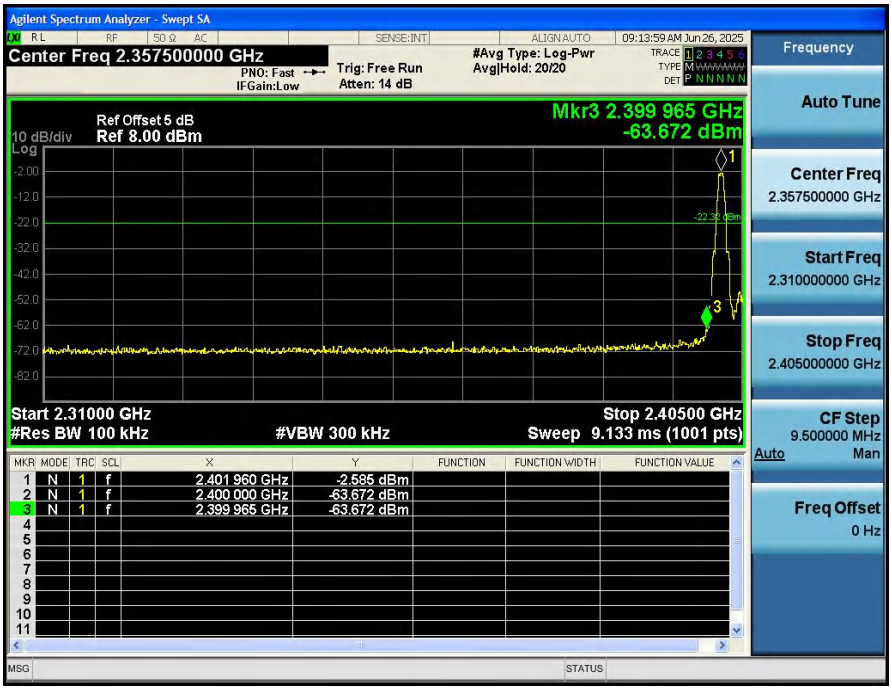
Appendix F: Bandedge

Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq (MHz)	Ref_level (dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	-2.320	-63.672	-22.320	Pass
NVNT	ANT1	1Mbps	2480.00	2484.975	-2.423	-67.111	-22.423	Pass
NVNT	ANT1	2Mbps	2402.00	2399.965	-2.714	-33.886	-22.714	Pass
NVNT	ANT1	2Mbps	2480.00	2483.525	-2.913	-64.219	-22.913	Pass

Remark:1. Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'offset' of the Spectrum Analyzer during the test.

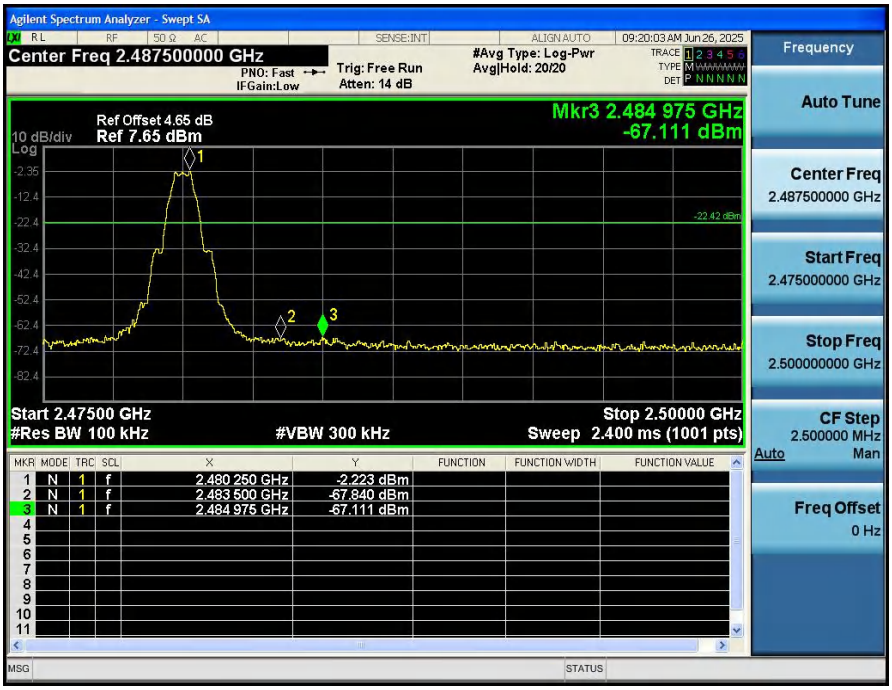
1_Reference_Level_NVNT_ANT1_1Mbps_2402

2_Bandedge_NVNT_ANT1_1Mbps_2402



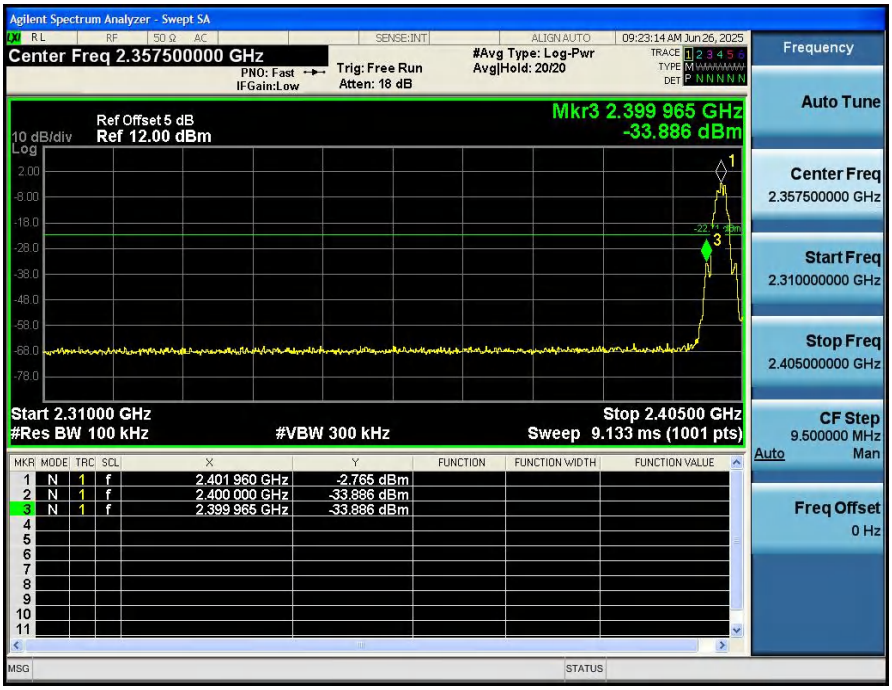
1_Reference_Level_NVNT_ANT1_1Mbps_2480

2_Bandedge_NVNT_ANT1_1Mbps_2480



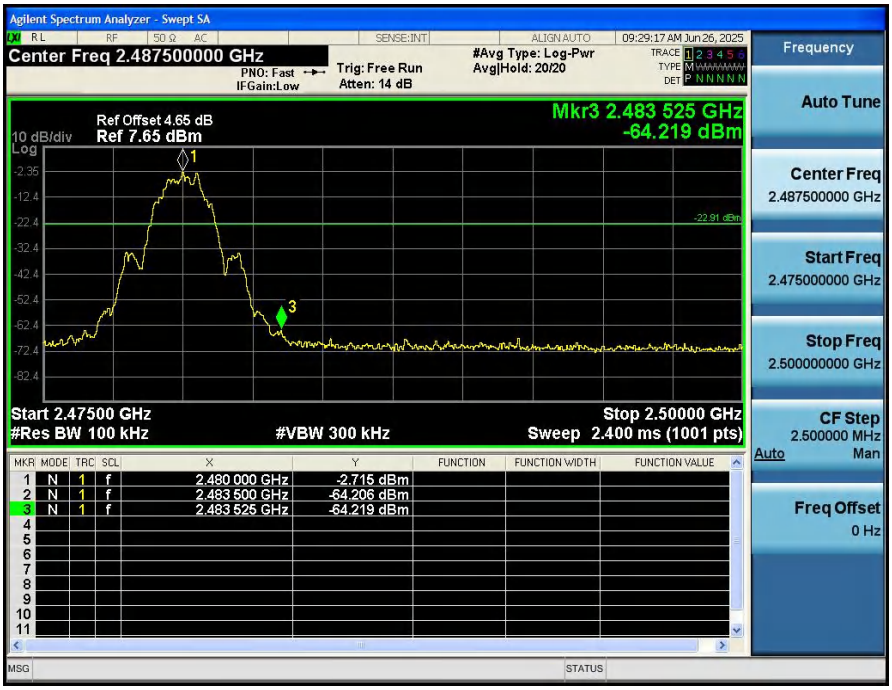
1_Reference_Level_NVNT_ANT1_2Mbps_2402

2_Bandedge_NVNT_ANT1_2Mbps_2402



1_Reference_Level_NVNT_ANT1_2Mbps_2480

2_Bandedge_NVNT_ANT1_2Mbps_2480



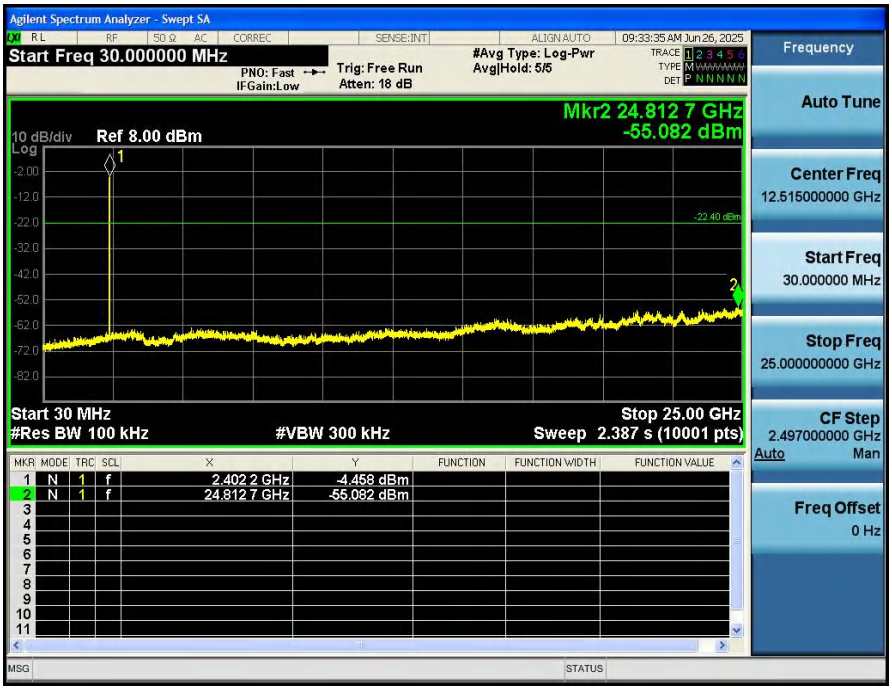
Appendix G: Spurious Emission

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level (dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	-2.398	-55.082	-22.398	Pass
NVNT	ANT1	1Mbps	2440.00	-2.632	-50.296	-22.632	Pass
NVNT	ANT1	1Mbps	2480.00	-3.045	-43.586	-23.045	Pass
NVNT	ANT1	2Mbps	2402.00	-3.026	-51.210	-23.026	Pass
NVNT	ANT1	2Mbps	2440.00	-3.300	-50.709	-23.300	Pass
NVNT	ANT1	2Mbps	2480.00	-3.353	-51.008	-23.353	Pass

Note:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the 'Input Correction' of the Spectrum Analyzer during the test.

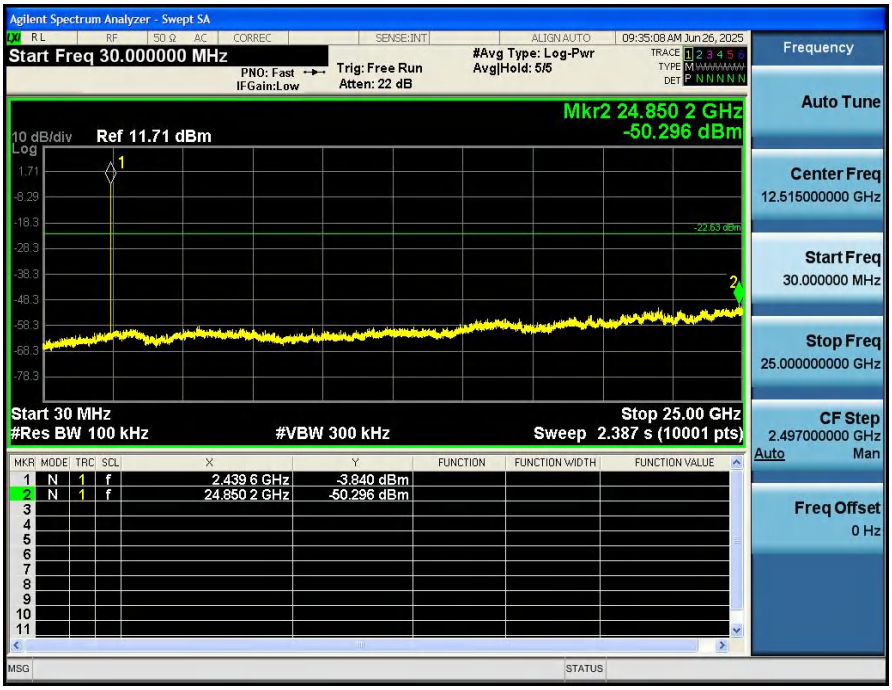
1_Reference_Level_NVNT_ANT1_1Mbps_2402

2_Spurious_Emission_NVNT_ANT1_1Mbps_2402

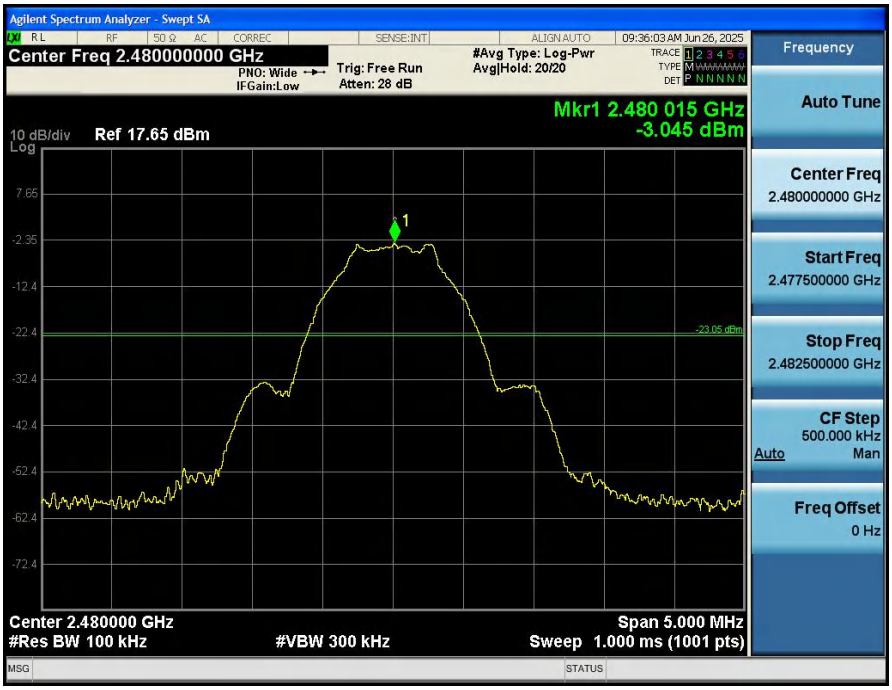


1_Reference_Level_NVNT_ANT1_1Mbps_2440

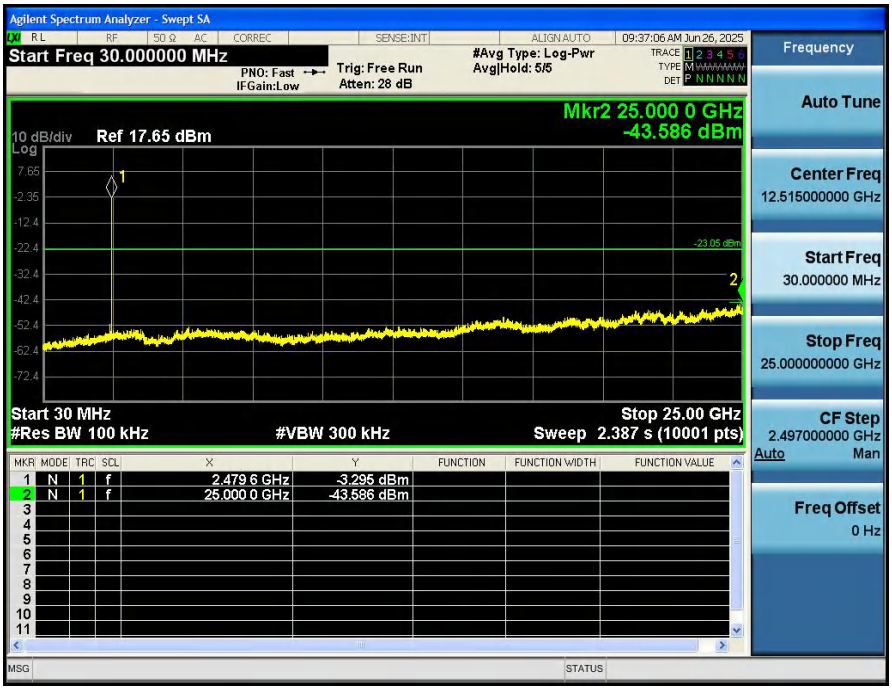
2_Spurious_Emission_NVNT_ANT1_1Mbps_2440



1_Reference_Level_NVNT_ANT1_1Mbps_2480

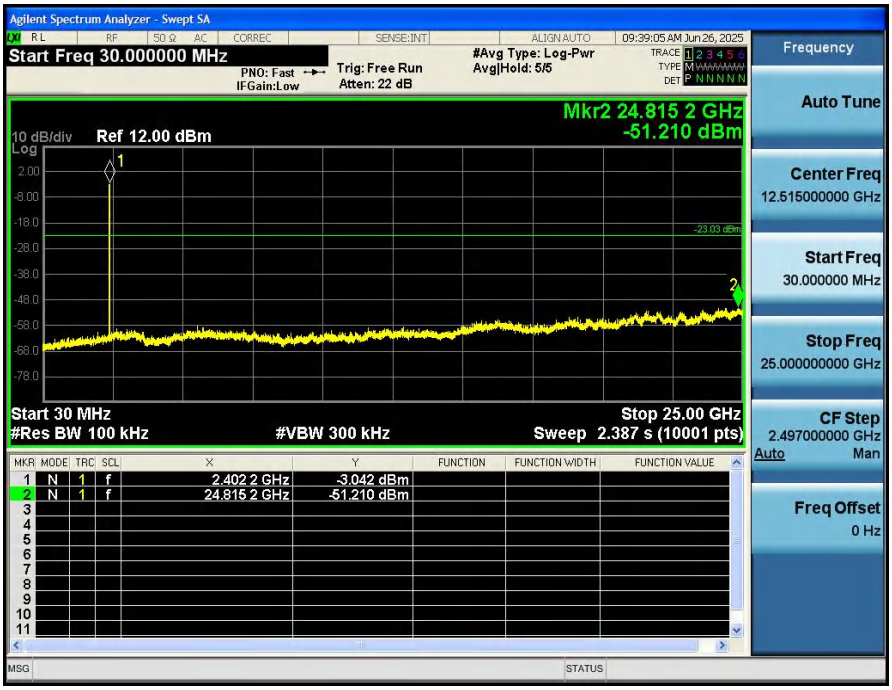


2_Spurious_Emission_NVNT_ANT1_1Mbps_2480



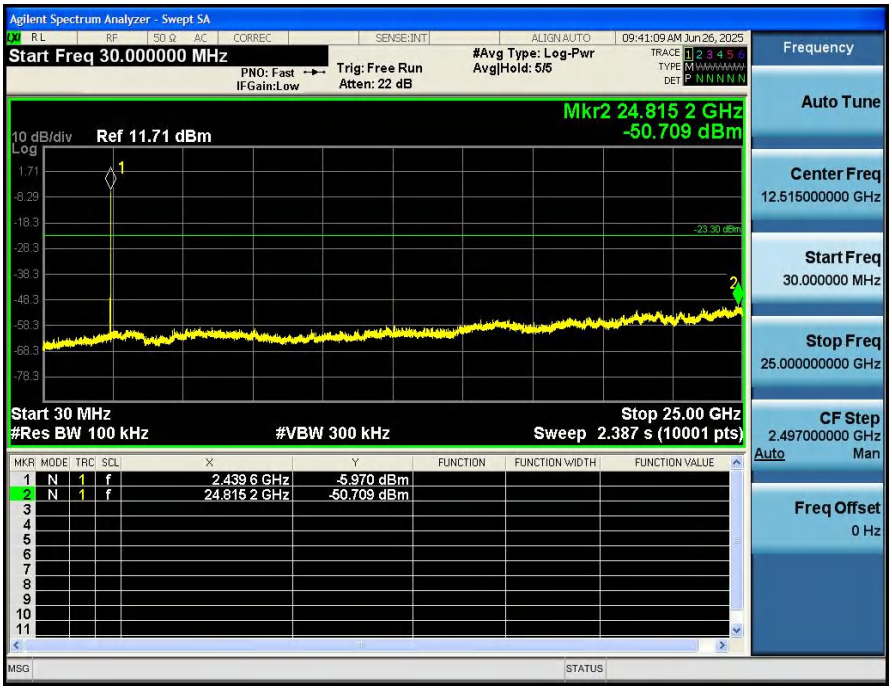
1_Reference_Level_NVNT_ANT1_2Mbps_2402

2_Spurious_Emission_NVNT_ANT1_2Mbps_2402



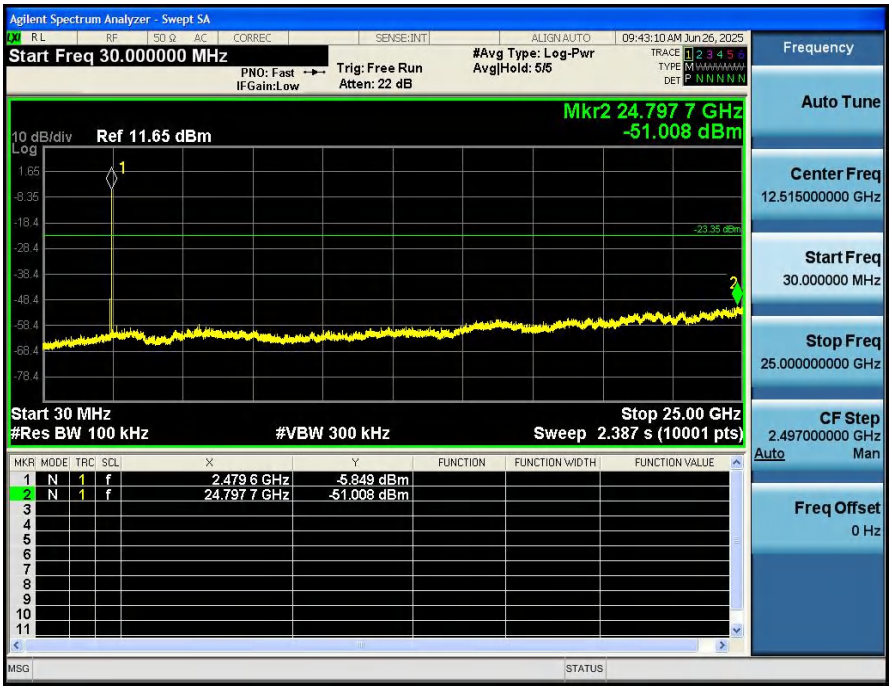
1_Reference_Level_NVNT_ANT1_2Mbps_2440

2_Spurious_Emission_NVNT_ANT1_2Mbps_2440



1_Reference_Level_NVNT_ANT1_2Mbps_2480

2_Spurious_Emission_NVNT_ANT1_2Mbps_2480



---END---