



Appendix Test Data for SRD (Conducted Measurement)

Product Name: WIRELESS MICROPHONE

Trade Mark: singing machine

Test Model: MIC722

FCC ID: 2AAXO-MIC722

Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A: DTS Bandwidth

Test Result

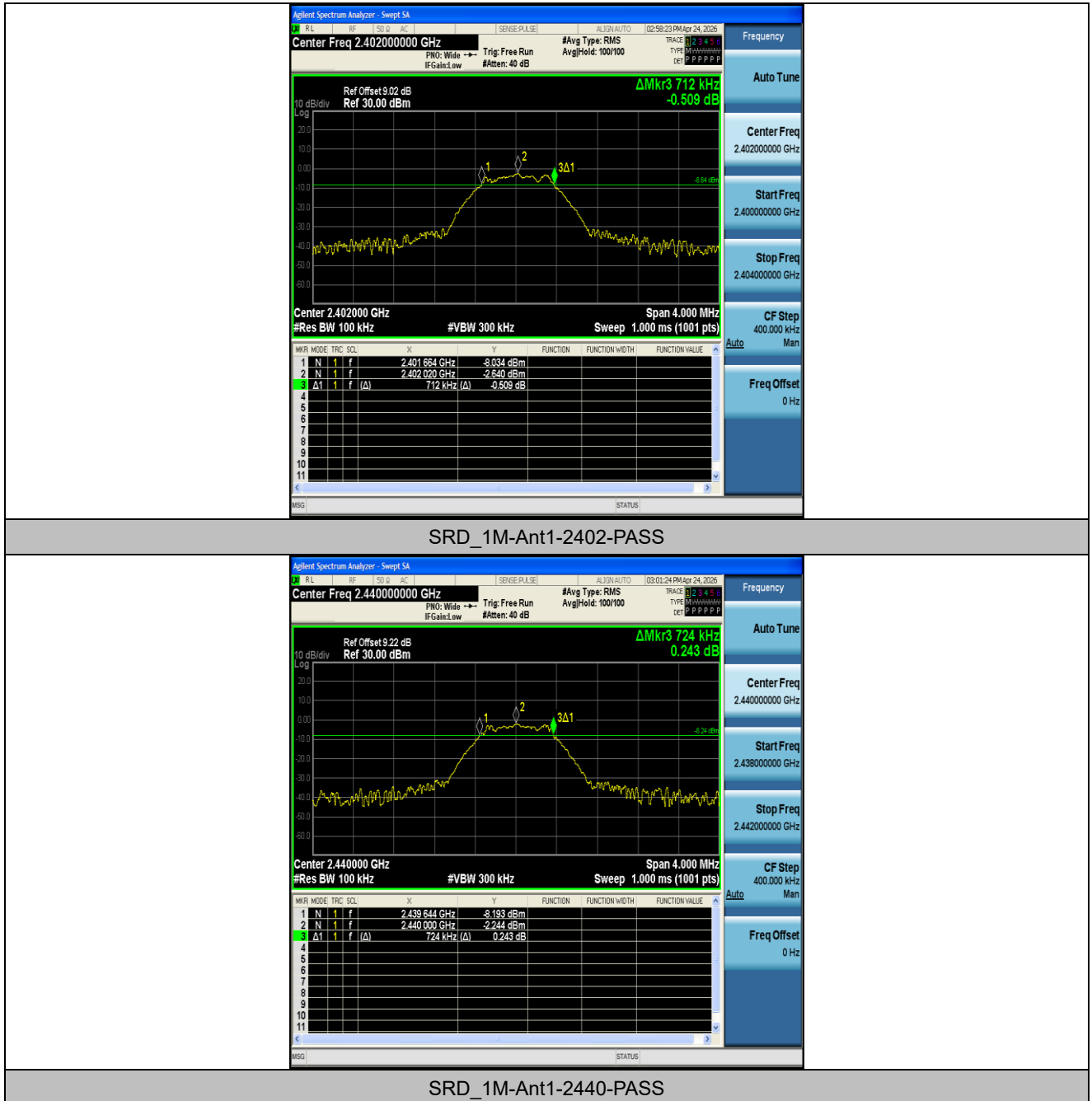
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD_1M	Ant1	2402	0.712	2401.664	2402.376	0.5	PASS
SRD_1M	Ant1	2440	0.724	2439.644	2440.368	0.5	PASS
SRD_1M	Ant1	2480	0.720	2479.664	2480.384	0.5	PASS
SRD_2M	Ant1	2402	1.064	2401.456	2402.520	0.5	PASS
SRD_2M	Ant1	2440	1.100	2439.452	2440.552	0.5	PASS
SRD_2M	Ant1	2480	1.084	2479.476	2480.560	0.5	PASS

Note: offset(dB) = caSRD loss(dB) + attenuator factor(dB)





Test Graphs





SRD_1M-Ant1-2480-PASS



SRD_2M-Ant1-2402-PASS





SRD_2M-Ant1-2440-PASS



SRD_2M-Ant1-2480-PASS





Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD_1M	Ant1	2402	1.0053	2401.5085	2402.5138	---	---
SRD_1M	Ant1	2440	0.98032	2439.5196	2440.4999	---	---
SRD_1M	Ant1	2480	0.95978	2479.5295	2480.4892	---	---
SRD_2M	Ant1	2402	1.9681	2401.0266	2402.9947	---	---
SRD_2M	Ant1	2440	1.9558	2439.0262	2440.9820	---	---
SRD_2M	Ant1	2480	1.8972	2479.0685	2480.9657	---	---

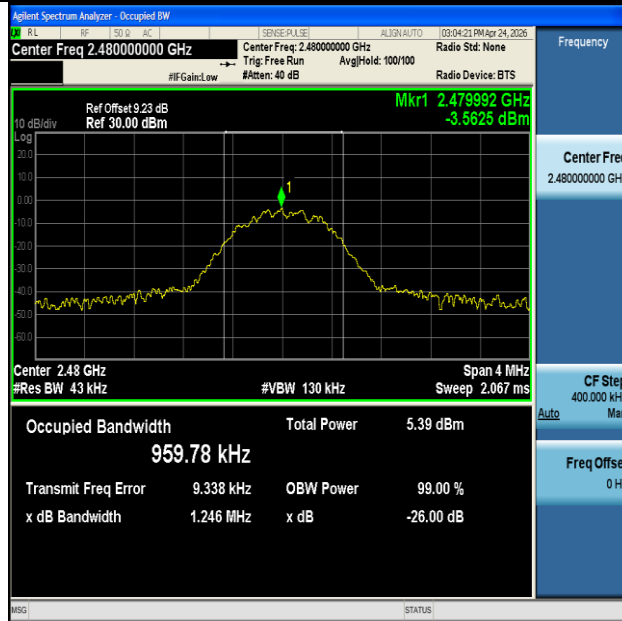
Note: offset(dB) = caSRD loss(dB) + attenuator factor(dB)



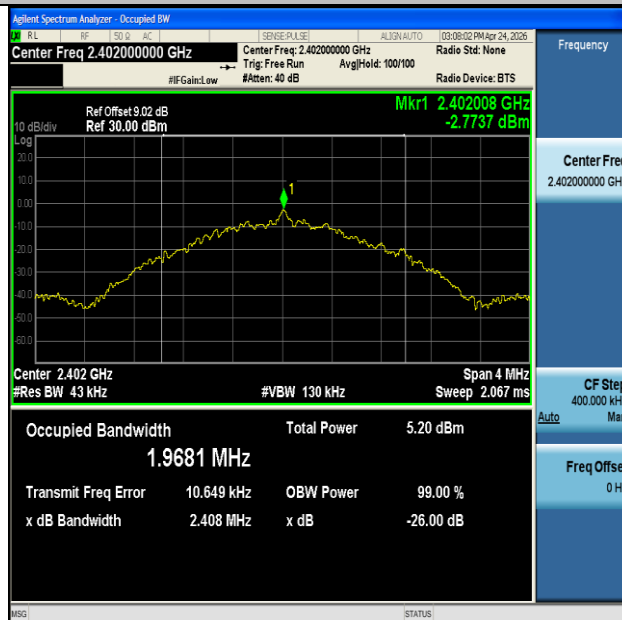


Test Graphs



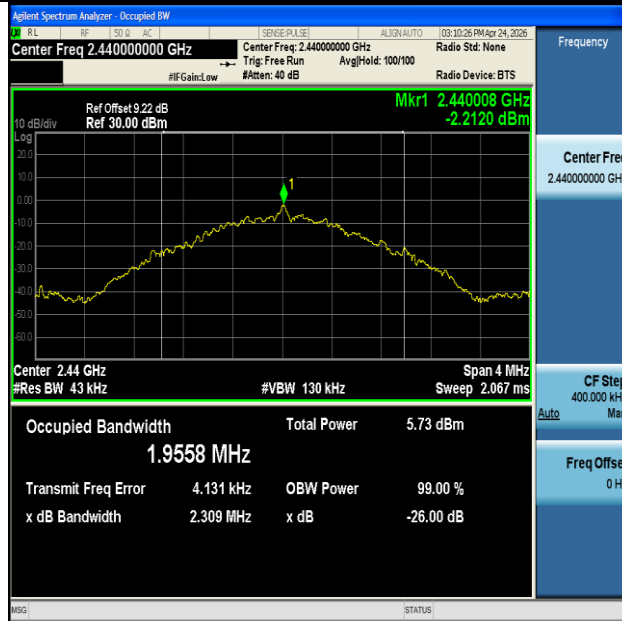


SRD_1M-Ant1-2480

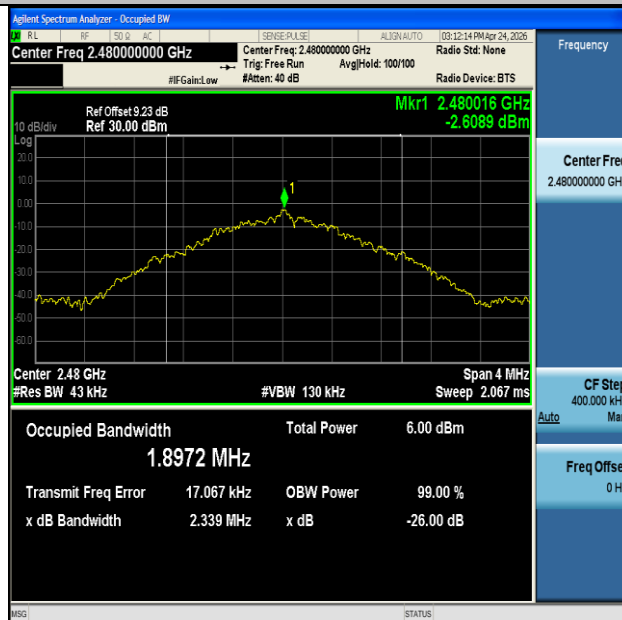


SRD_2M-Ant1-2402





SRD_2M-Ant1-2440



SRD_2M-Ant1-2480





Appendix C: Maximum peak conducted output power

Test Result Peak

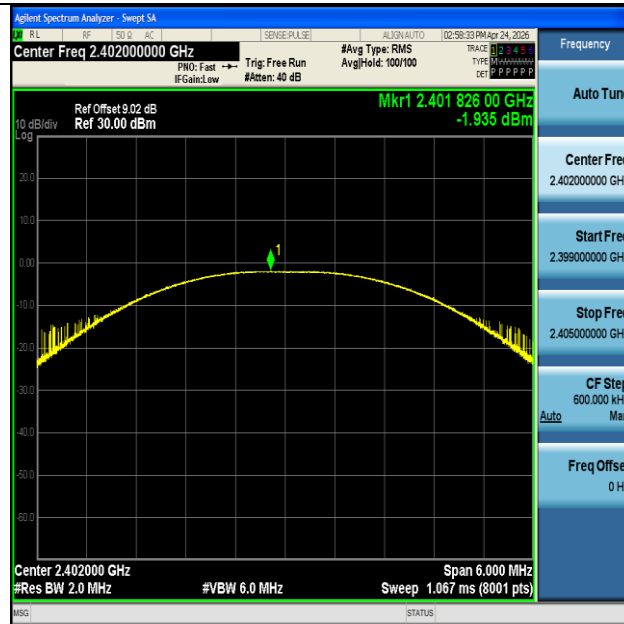
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD_1M	Ant1	2402	-1.94	≤30	PASS
SRD_1M	Ant1	2440	-1.38	≤30	PASS
SRD_1M	Ant1	2480	-1.27	≤30	PASS
SRD_2M	Ant1	2402	-1.89	≤30	PASS
SRD_2M	Ant1	2440	-1.40	≤30	PASS
SRD_2M	Ant1	2480	-1.28	≤30	PASS

Note: offset(dB) = caSRD loss(dB) + attenuator factor(dB)

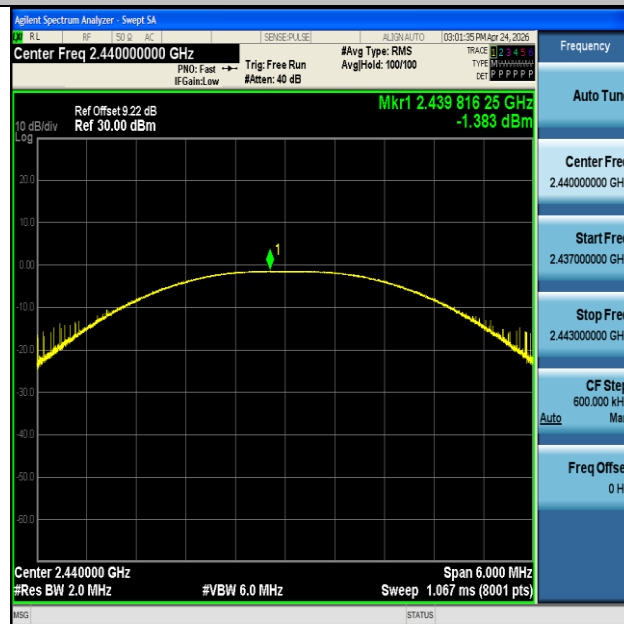




Test Graphs Peak

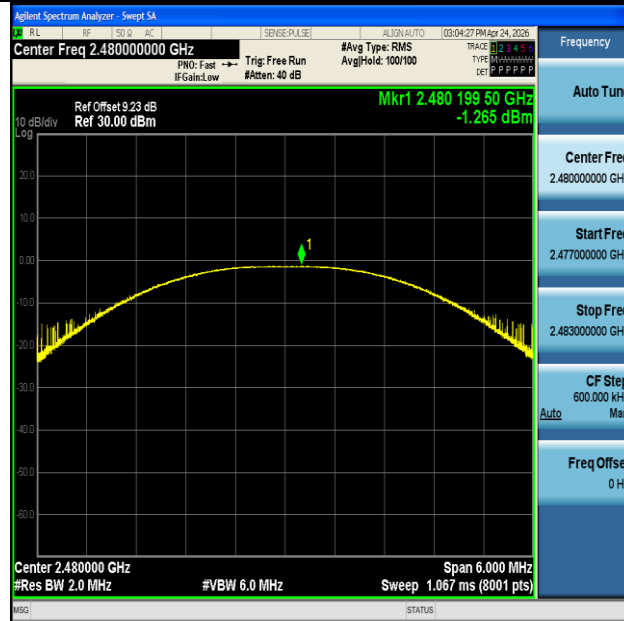


SRD_1M-Ant1-2402-PASS

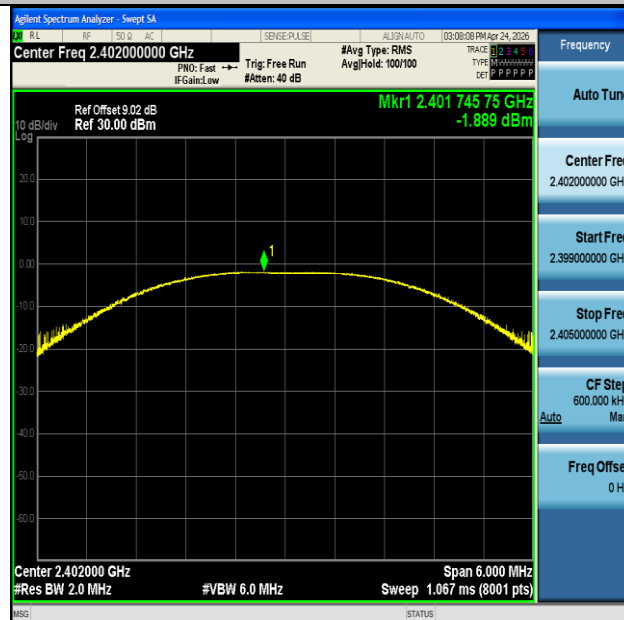


SRD_1M-Ant1-2440-PASS



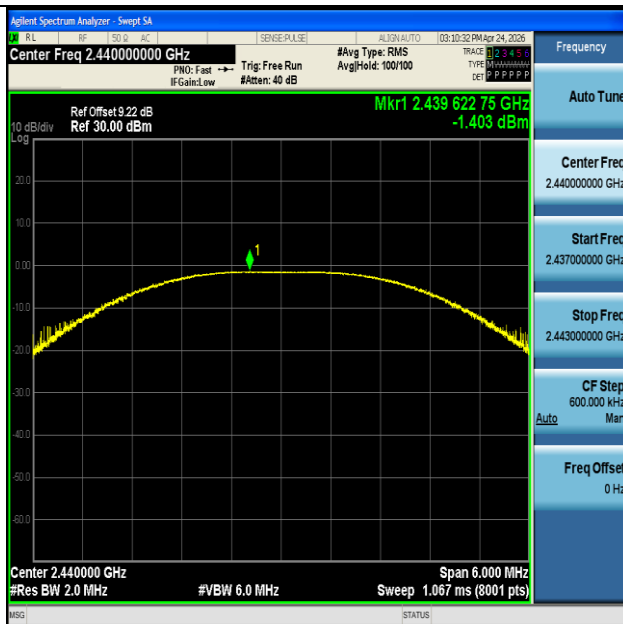


SRD_1M-Ant1-2480-PASS

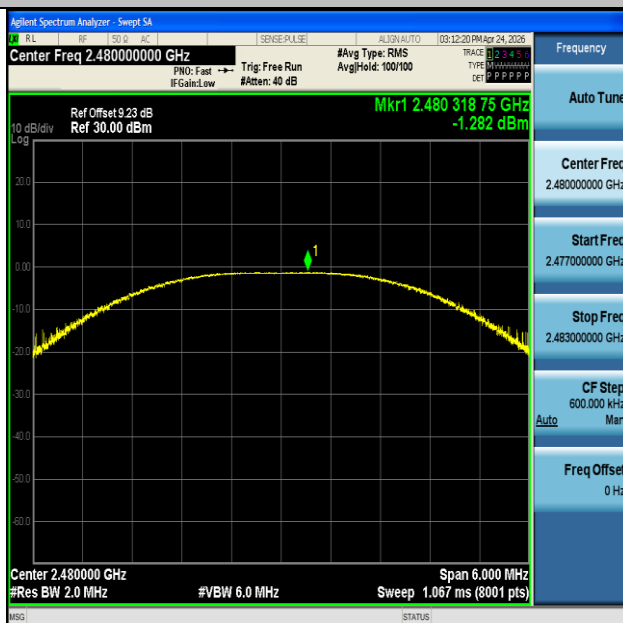


SRD_2M-Ant1-2402-PASS





SRD_2M-Ant1-2440-PASS



SRD_2M-Ant1-2480-PASS





Appendix D: Maximum peak power spectral density

Test Result

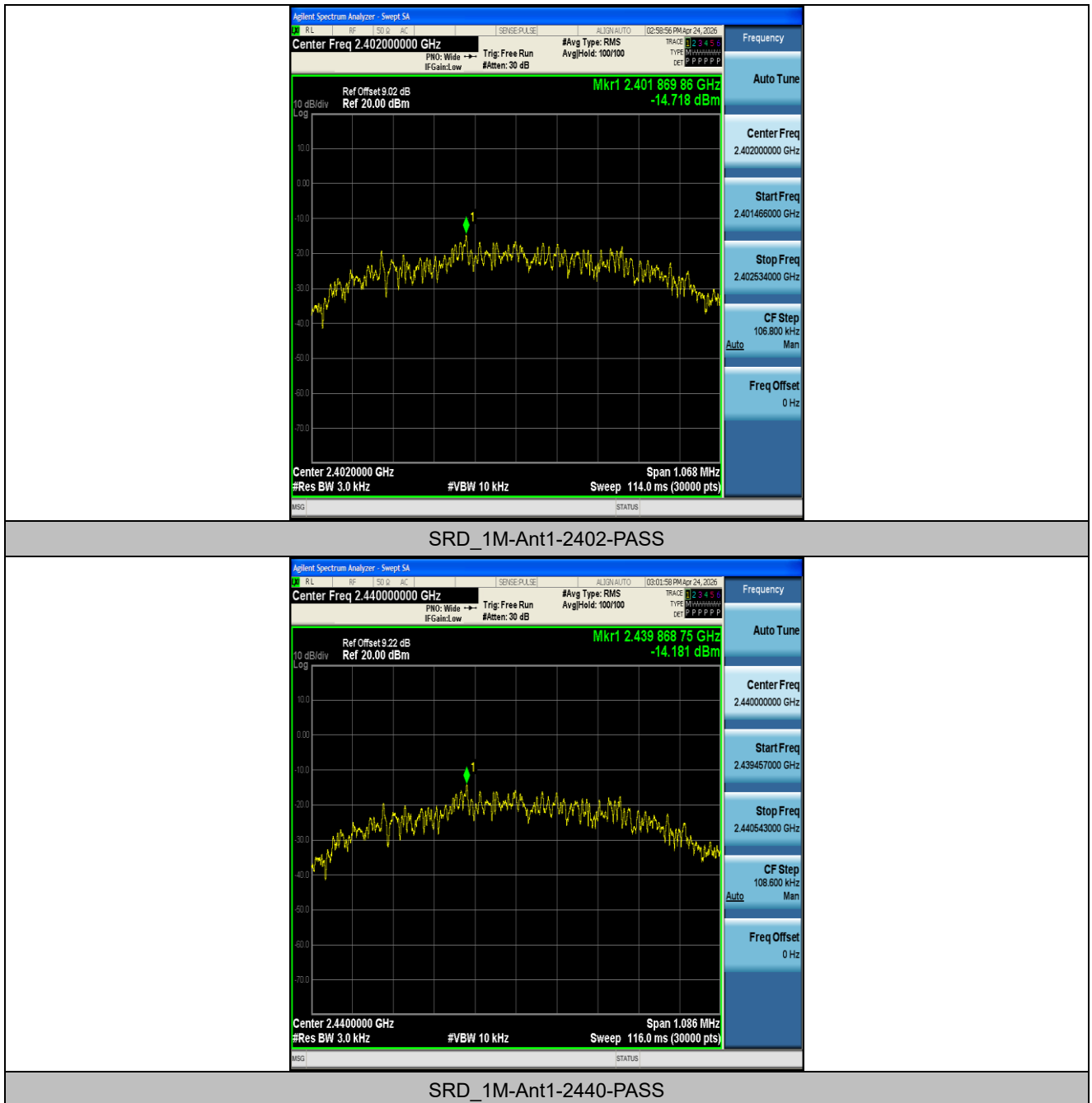
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD_1M	Ant1	2402	-14.72	≤8.00	PASS
SRD_1M	Ant1	2440	-14.18	≤8.00	PASS
SRD_1M	Ant1	2480	-14.09	≤8.00	PASS
SRD_2M	Ant1	2402	-16.13	≤8.00	PASS
SRD_2M	Ant1	2440	-15.61	≤8.00	PASS
SRD_2M	Ant1	2480	-15.50	≤8.00	PASS

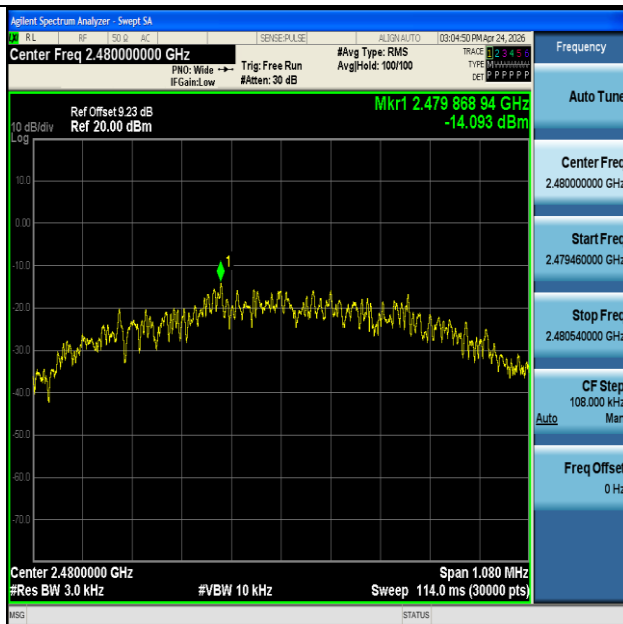
Note: offset(dB) = caSRD loss(dB) + attenuator factor(dB)



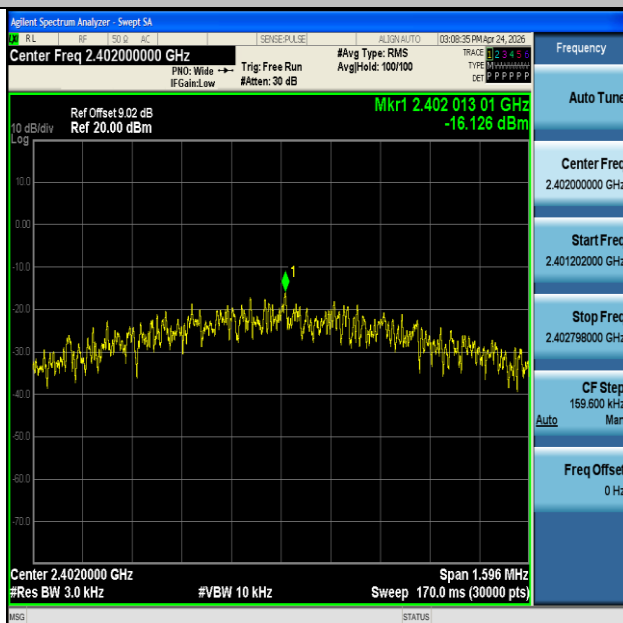


Test Graphs



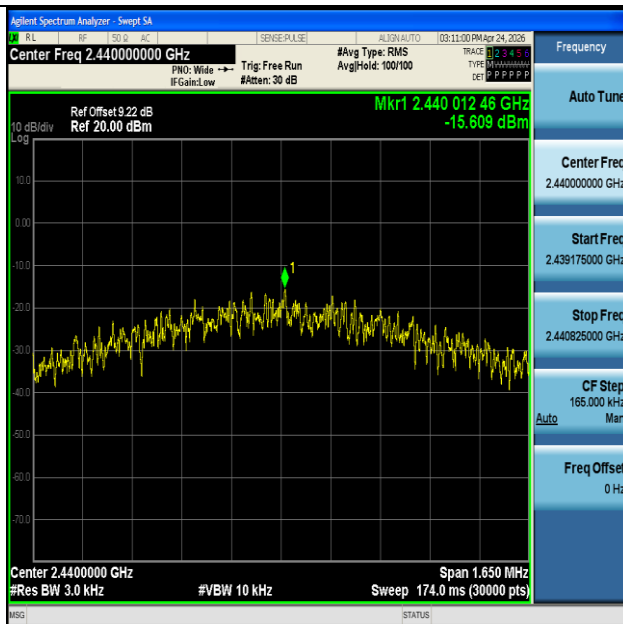


SRD_1M-Ant1-2480-PASS

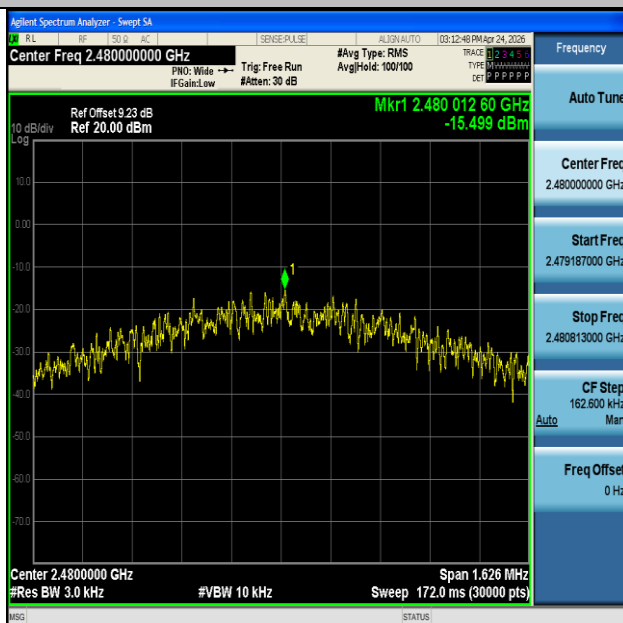


SRD_2M-Ant1-2402-PASS





SRD_2M-Ant1-2440-PASS



SRD_2M-Ant1-2480-PASS





Appendix E: Band edge measurements

Test Result

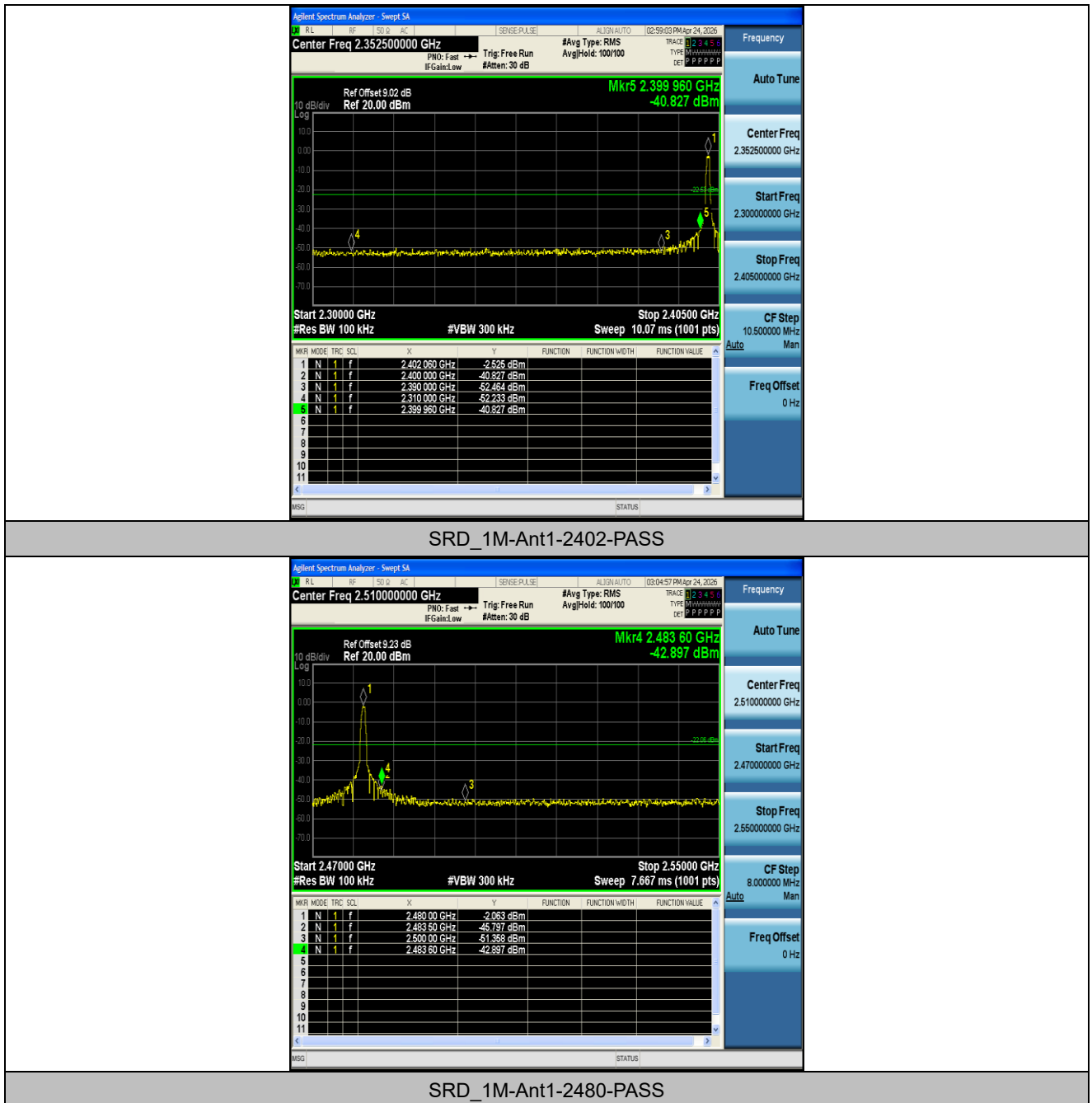
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD_1M	Ant1	Low	2402	-2.53	-40.83	≤-22.53	PASS
SRD_1M	Ant1	High	2480	-2.06	-42.9	≤-22.06	PASS
SRD_2M	Ant1	Low	2402	-2.39	-36.67	≤-22.39	PASS
SRD_2M	Ant1	High	2480	-2.04	-44.64	≤-22.04	PASS

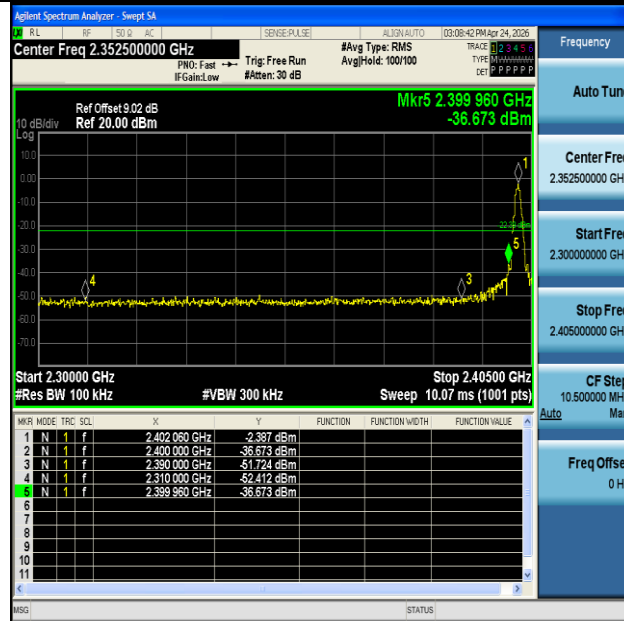
Note: offset(dB) = caSRD loss(dB) + attenuator factor(dB)



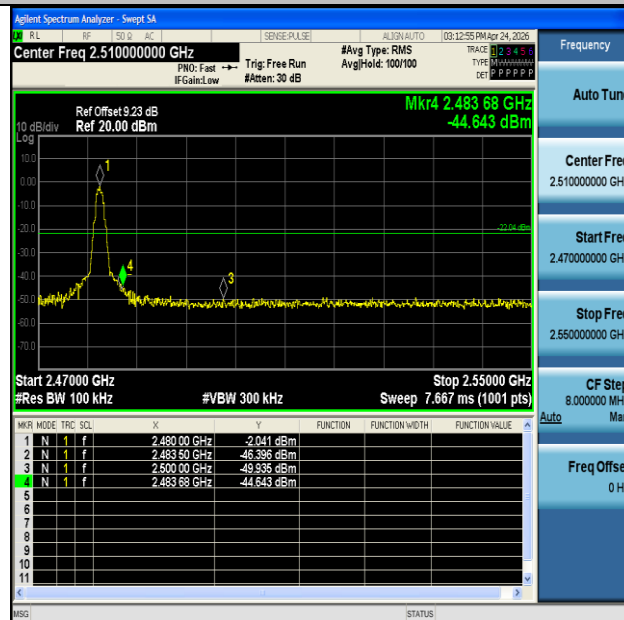


Test Graphs





SRD_2M-Ant1-2402-PASS



SRD_2M-Ant1-2480-PASS





Appendix F: Conducted Spurious Emission

Test Result

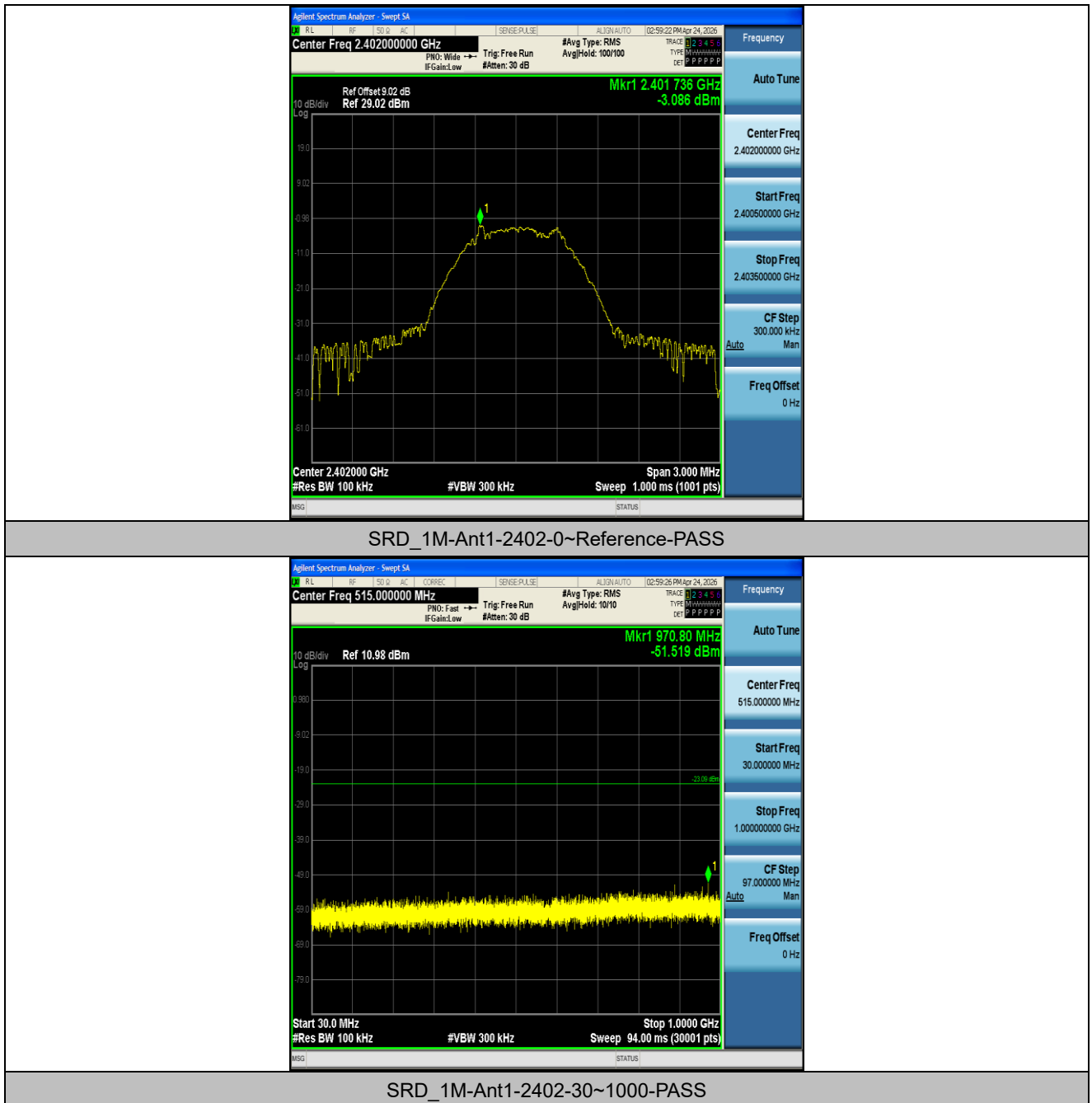
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD_1M	Ant1	2402	0~Reference	-3.09	-3.09	---	PASS
SRD_1M	Ant1	2402	30~1000	-3.09	-51.52	≤-23.09	PASS
SRD_1M	Ant1	2402	1000~26500	-3.09	-28.03	≤-23.09	PASS
SRD_1M	Ant1	2440	0~Reference	-2.53	-2.53	---	PASS
SRD_1M	Ant1	2440	30~1000	-2.53	-52.64	≤-22.53	PASS
SRD_1M	Ant1	2440	1000~26500	-2.53	-27.76	≤-22.53	PASS
SRD_1M	Ant1	2480	0~Reference	-2.04	-2.04	---	PASS
SRD_1M	Ant1	2480	30~1000	-2.04	-51.71	≤-22.04	PASS
SRD_1M	Ant1	2480	1000~26500	-2.04	-27.62	≤-22.04	PASS
SRD_2M	Ant1	2402	0~Reference	-2.47	-2.47	---	PASS
SRD_2M	Ant1	2402	30~1000	-2.47	-52.86	≤-22.47	PASS
SRD_2M	Ant1	2402	1000~26500	-2.47	-27.47	≤-22.47	PASS
SRD_2M	Ant1	2440	0~Reference	-1.97	-1.97	---	PASS
SRD_2M	Ant1	2440	30~1000	-1.97	-52.16	≤-21.97	PASS
SRD_2M	Ant1	2440	1000~26500	-1.97	-27.31	≤-21.97	PASS
SRD_2M	Ant1	2480	0~Reference	-1.83	-1.83	---	PASS
SRD_2M	Ant1	2480	30~1000	-1.83	-53.23	≤-21.83	PASS
SRD_2M	Ant1	2480	1000~26500	-1.83	-27.38	≤-21.83	PASS

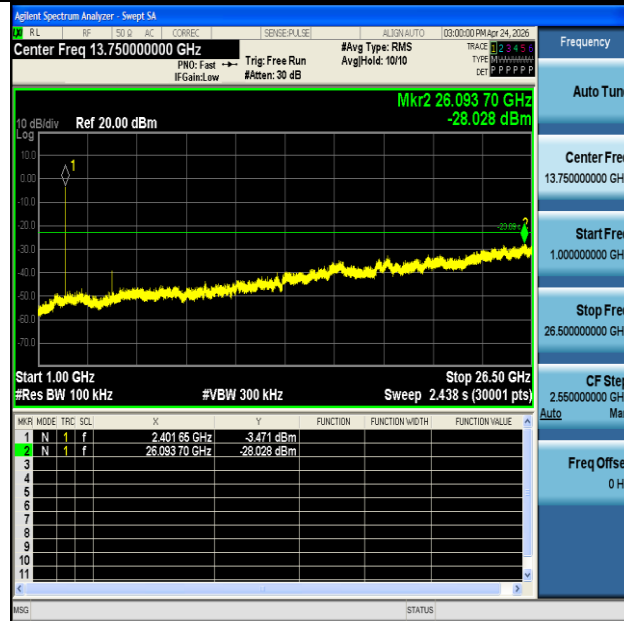
Note: offset(dB) in Reference test plots = caSRD loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the caSRD loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



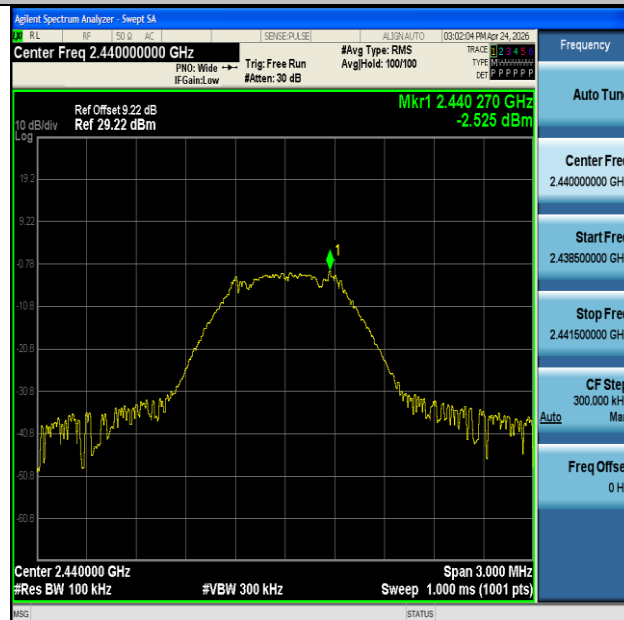


Test Graphs



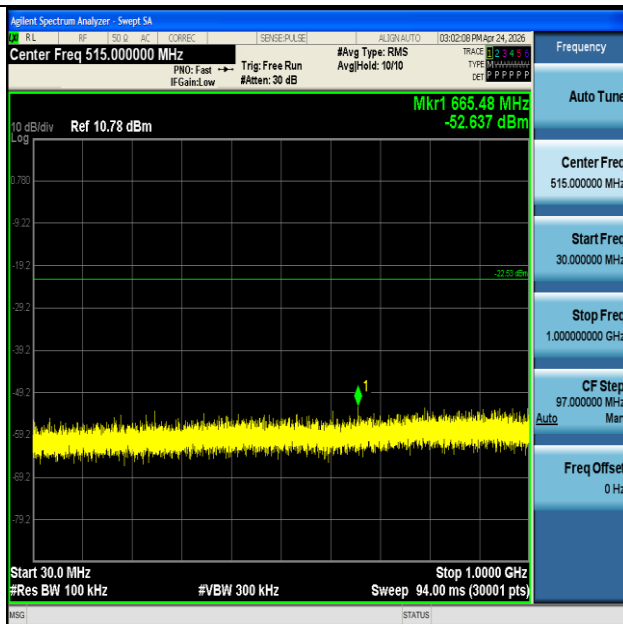


SRD_1M-Ant1-2402-1000~26500-PASS

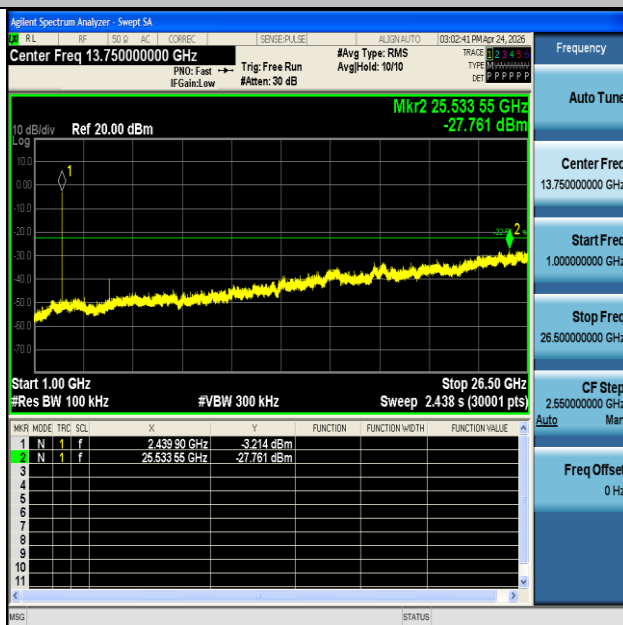


SRD_1M-Ant1-2440-0~Reference-PASS



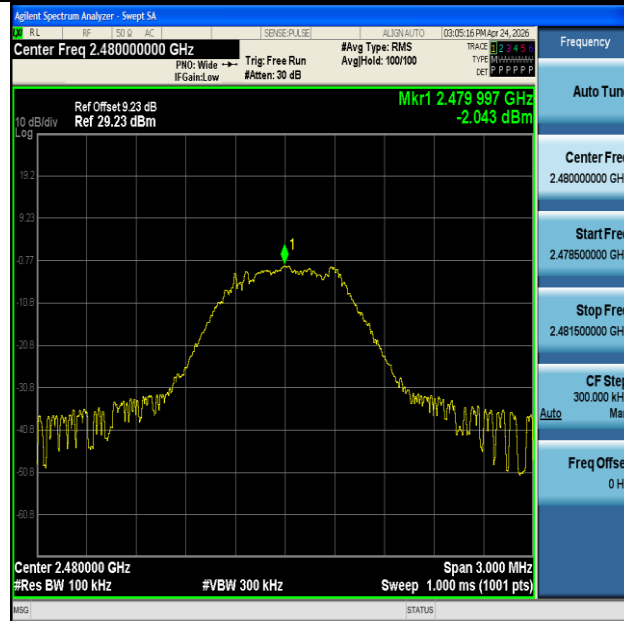


SRD_1M-Ant1-2440-30~1000-PASS

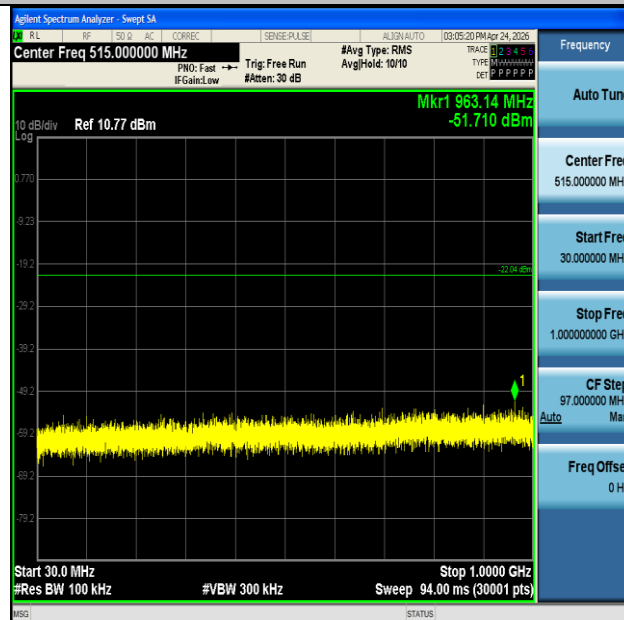


SRD_1M-Ant1-2440-1000~26500-PASS



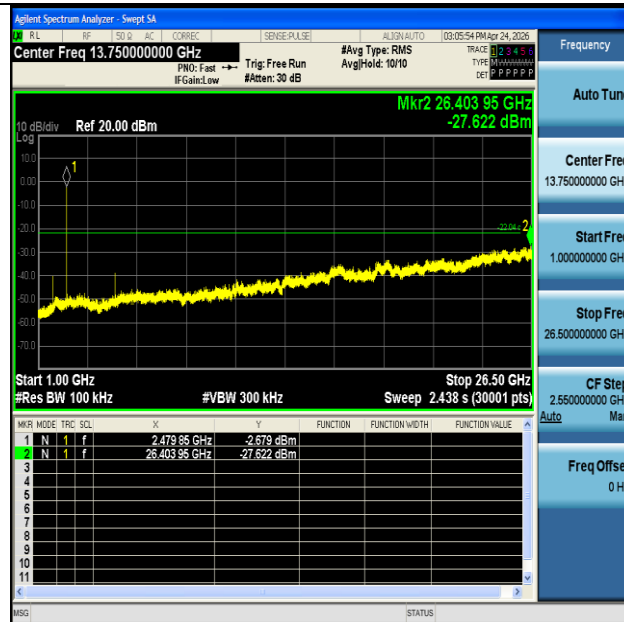


SRD_1M-Ant1-2480-0~Reference-PASS

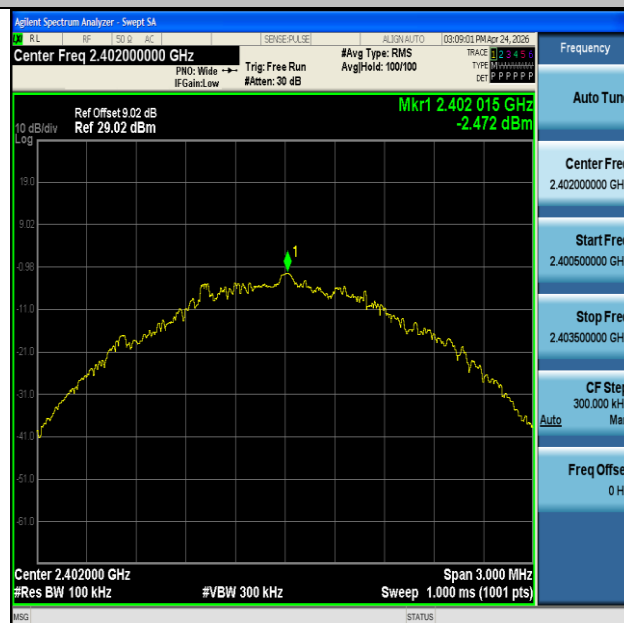


SRD_1M-Ant1-2480-30~1000-PASS



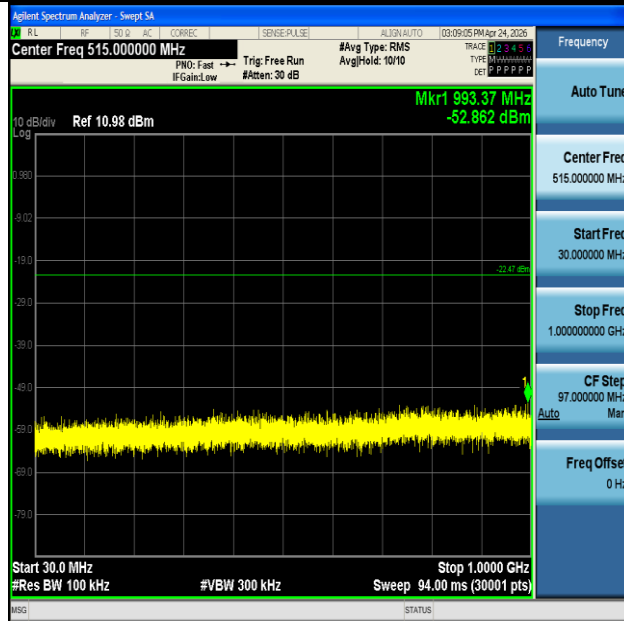


SRD_1M-Ant1-2480-1000~26500-PASS

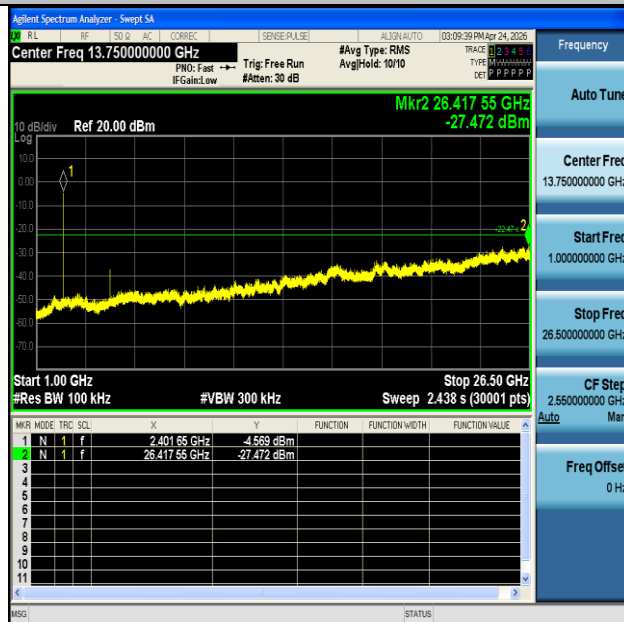


SRD_2M-Ant1-2402-0~Reference-PASS





SRD_2M-Ant1-2402-30~1000-PASS

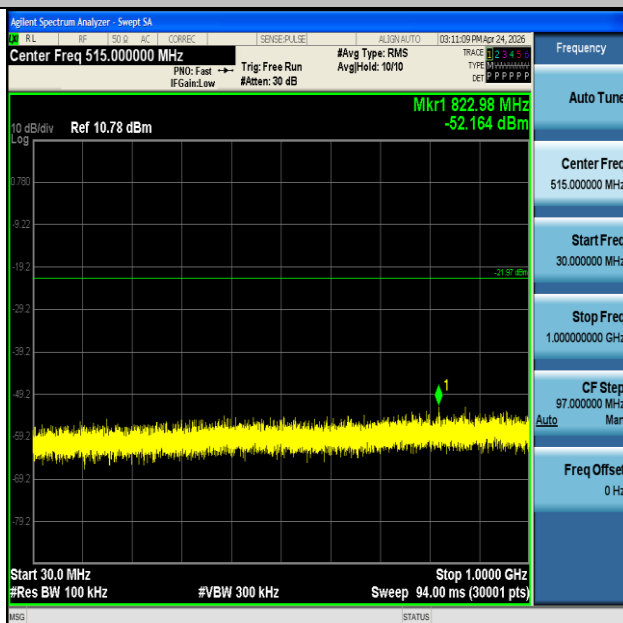


SRD_2M-Ant1-2402-1000~26500-PASS



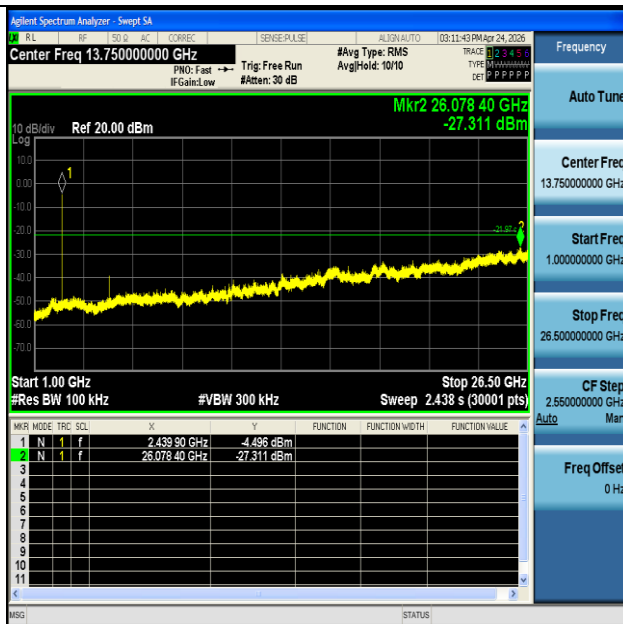


SRD_2M-Ant1-2440-0~Reference-PASS

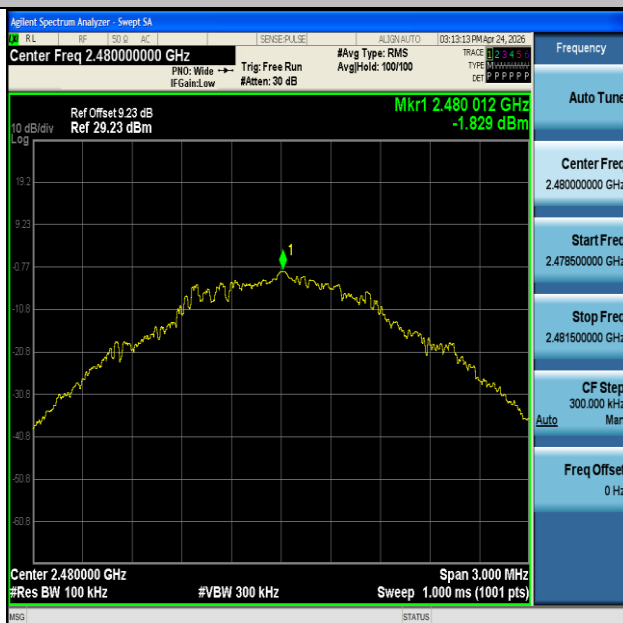


SRD_2M-Ant1-2440-30~1000-PASS



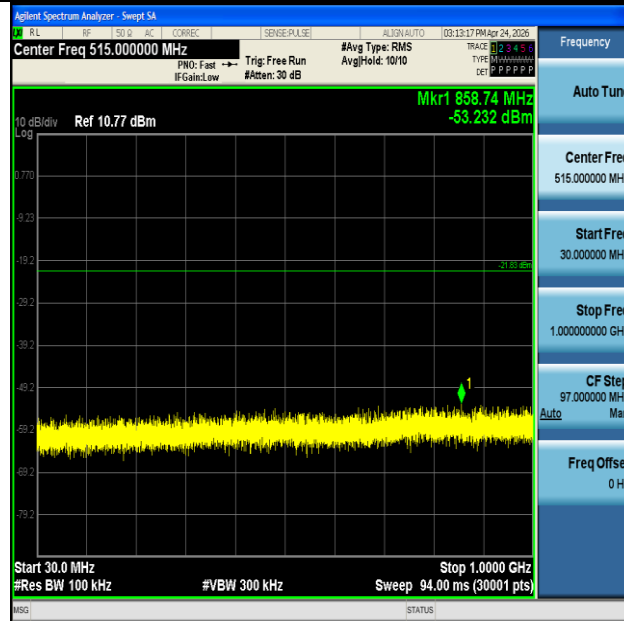


SRD_2M-Ant1-2440-1000~26500-PASS



SRD_2M-Ant1-2480-0~Reference-PASS





SRD_2M-Ant1-2480-30~1000-PASS



SRD_2M-Ant1-2480-1000~26500-PASS





Appendix G: Duty Cycle

Test Result

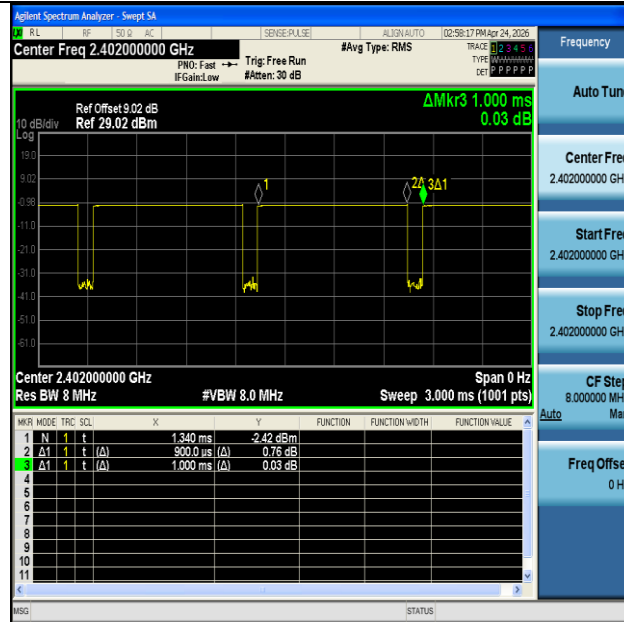
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
SRD_1M	Ant1	2402	0.90	1.00	90.00	0.46
SRD_1M	Ant1	2440	0.90	1.00	90.00	0.46
SRD_1M	Ant1	2480	0.91	1.00	91.00	0.41
SRD_2M	Ant1	2402	0.85	1.00	85.00	0.71
SRD_2M	Ant1	2440	0.85	1.00	85.00	0.71
SRD_2M	Ant1	2480	0.85	1.00	85.00	0.71

Note: offset(dB) = caSRD loss(dB) + attenuator factor(dB)





Test Graphs

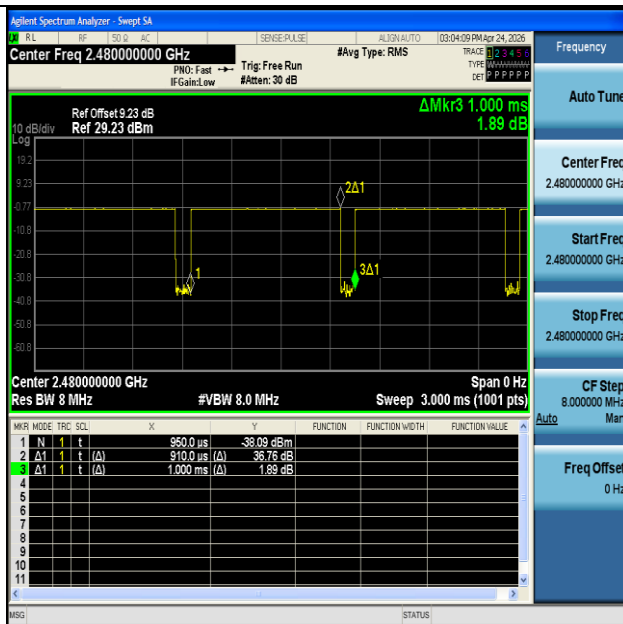


NTNV-SRD_1M-Ant1-2402

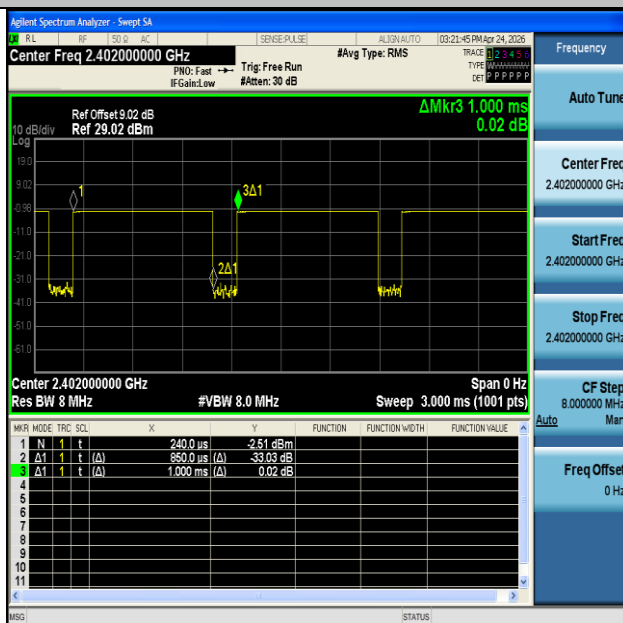


NTNV-SRD_1M-Ant1-2440





NTNV-SRD_1M-Ant1-2480

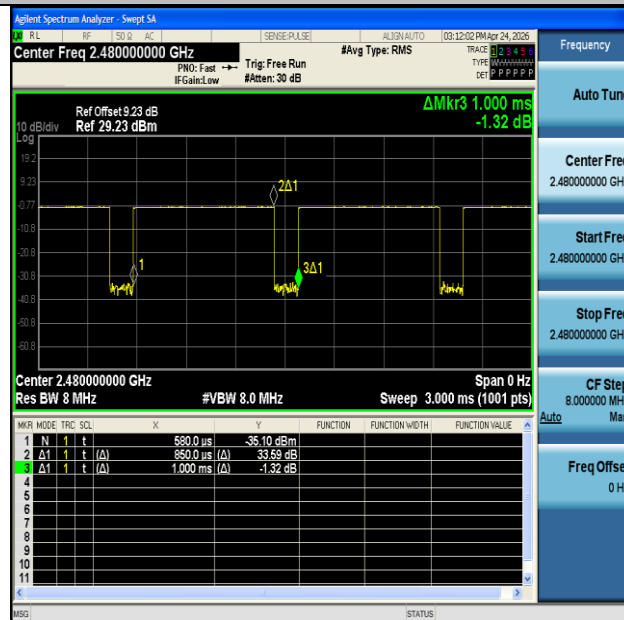


NTNV-SRD_2M-Ant1-2402





NTNV-SRD_2M-Ant1-2440



NTNV-SRD_2M-Ant1-2480

