



Appendix Test Data for SRD (Conducted Measurement)

Product Name: Alloy Engineering Remote Control Series

Trade Mark: /

Test Model: YG475

FCC ID: 2BKZ5-YG475

Environmental Conditions

Temperature:	23.5℃
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	Ant1	2408	0.640	2407.692	2408.332	0.5	PASS
SRD	Ant1	2442	0.696	2441.648	2442.344	0.5	PASS
SRD	Ant1	2475	0.756	2474.652	2475.408	0.5	PASS

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





Test Graphs







Appendix B: Occupied Channel Bandwidth

Test Result

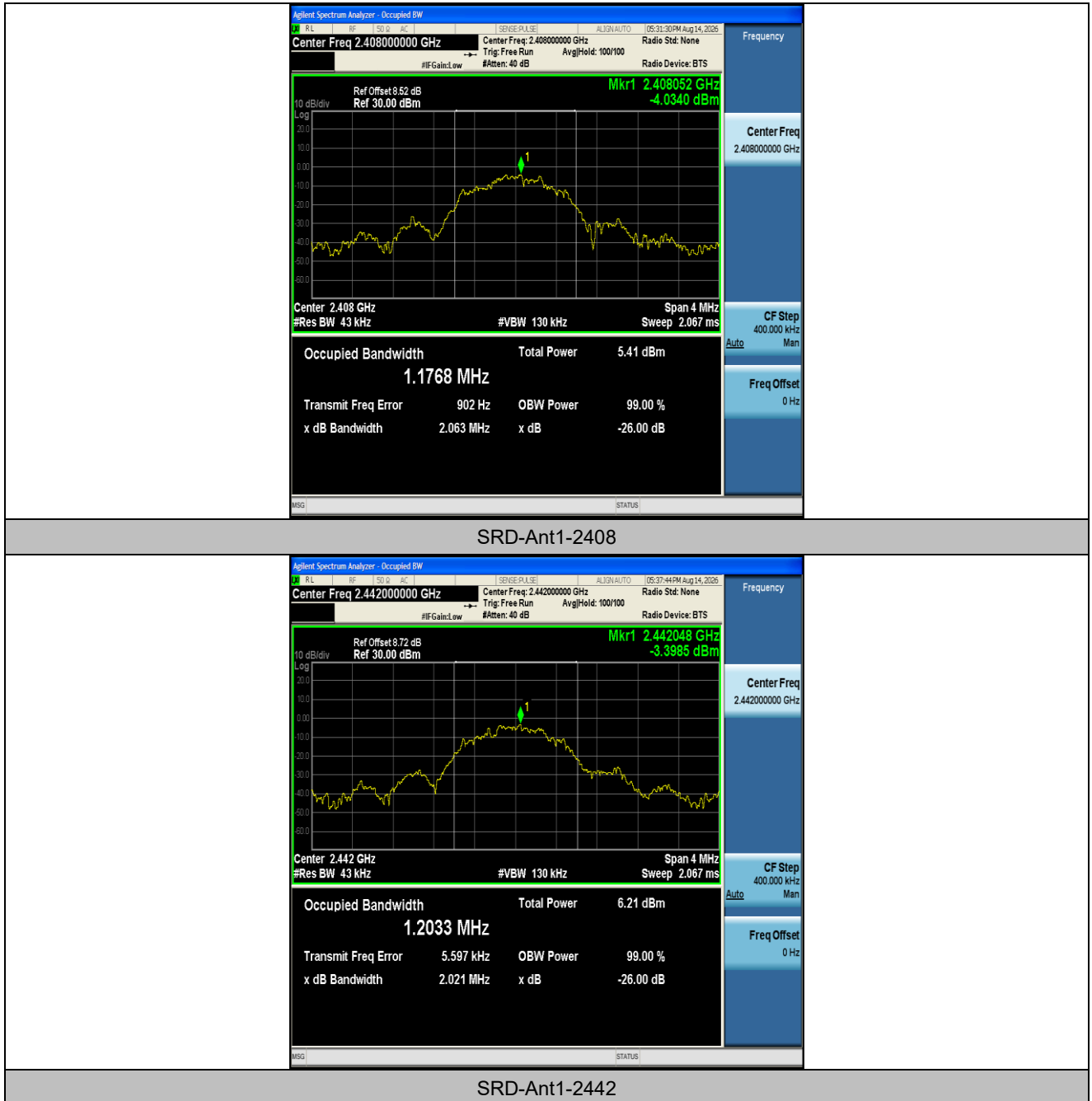
Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
SRD	Ant1	2408	1.1768	2407.4125	2408.5893	---	---
SRD	Ant1	2442	1.2033	2441.4040	2442.6073	---	---
SRD	Ant1	2475	1.2319	2474.3963	2475.6282	---	---

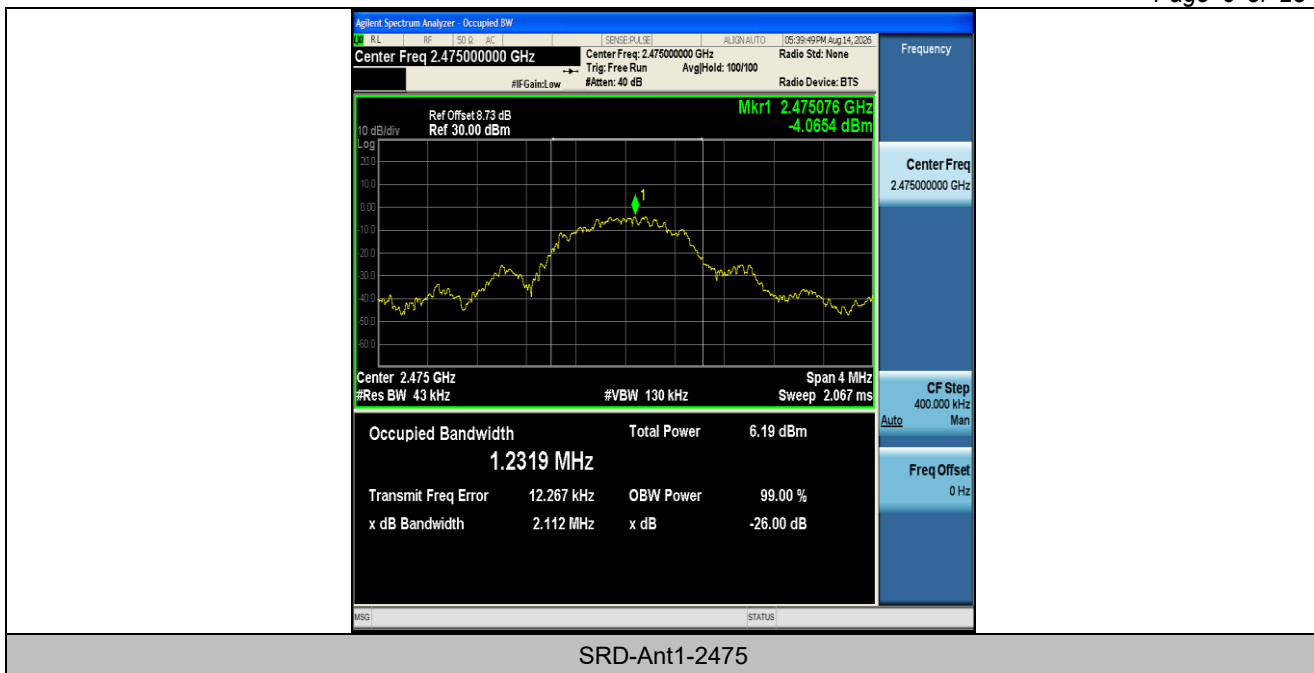
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix C: Maximum peak conducted output power

Test Result Peak

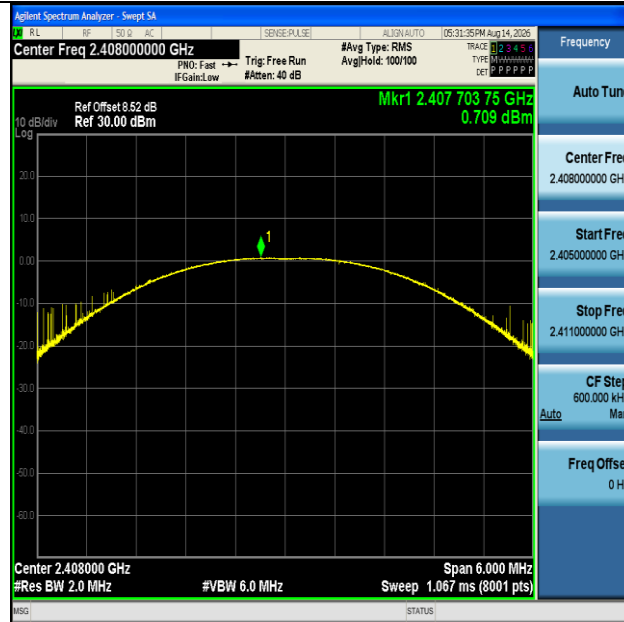
Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit [dBm]	Verdict
SRD	Ant1	2408	0.71	≤30	PASS
SRD	Ant1	2442	1.45	≤30	PASS
SRD	Ant1	2475	1.33	≤30	PASS

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

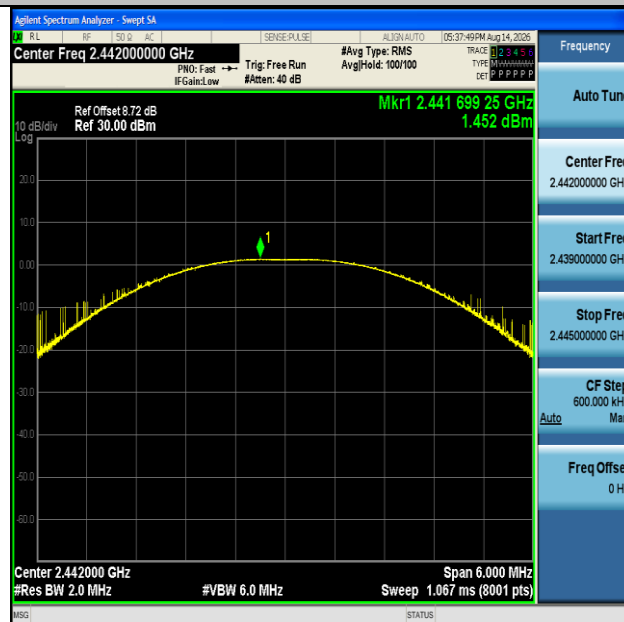




Test Graphs Peak

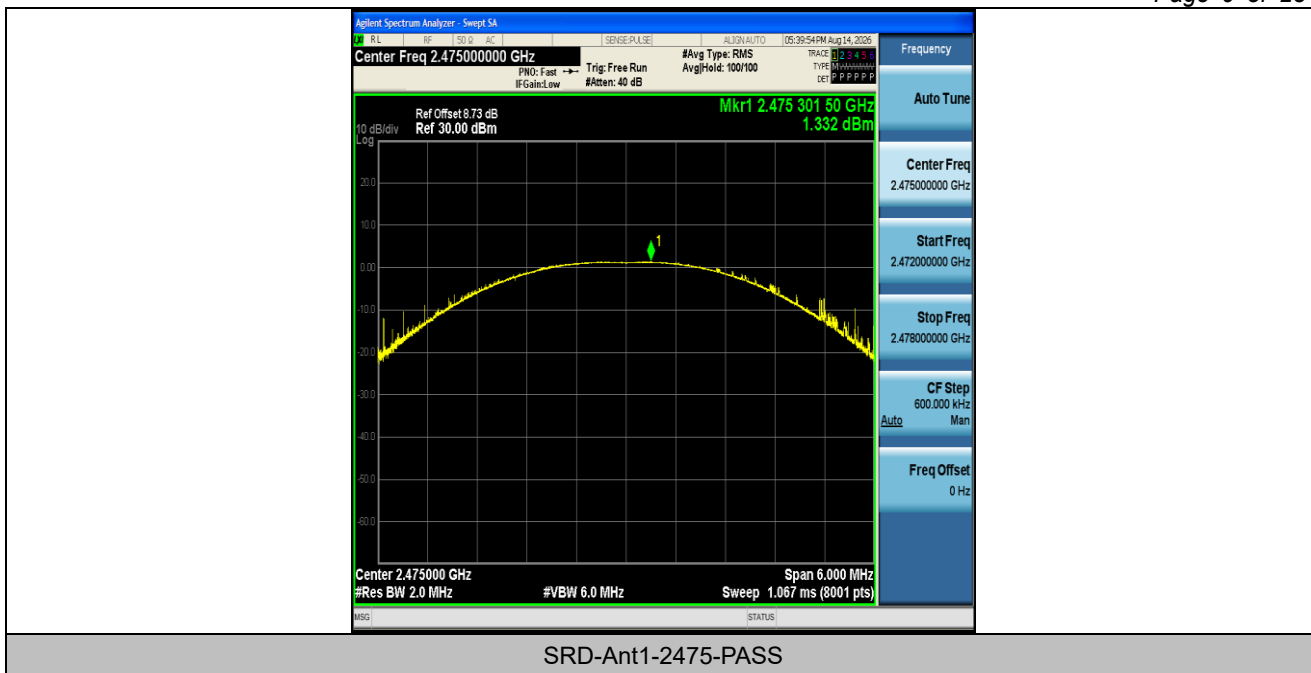


SRD-Ant1-2408-PASS



SRD-Ant1-2442-PASS







Appendix D: Maximum peak power spectral density

Test Result

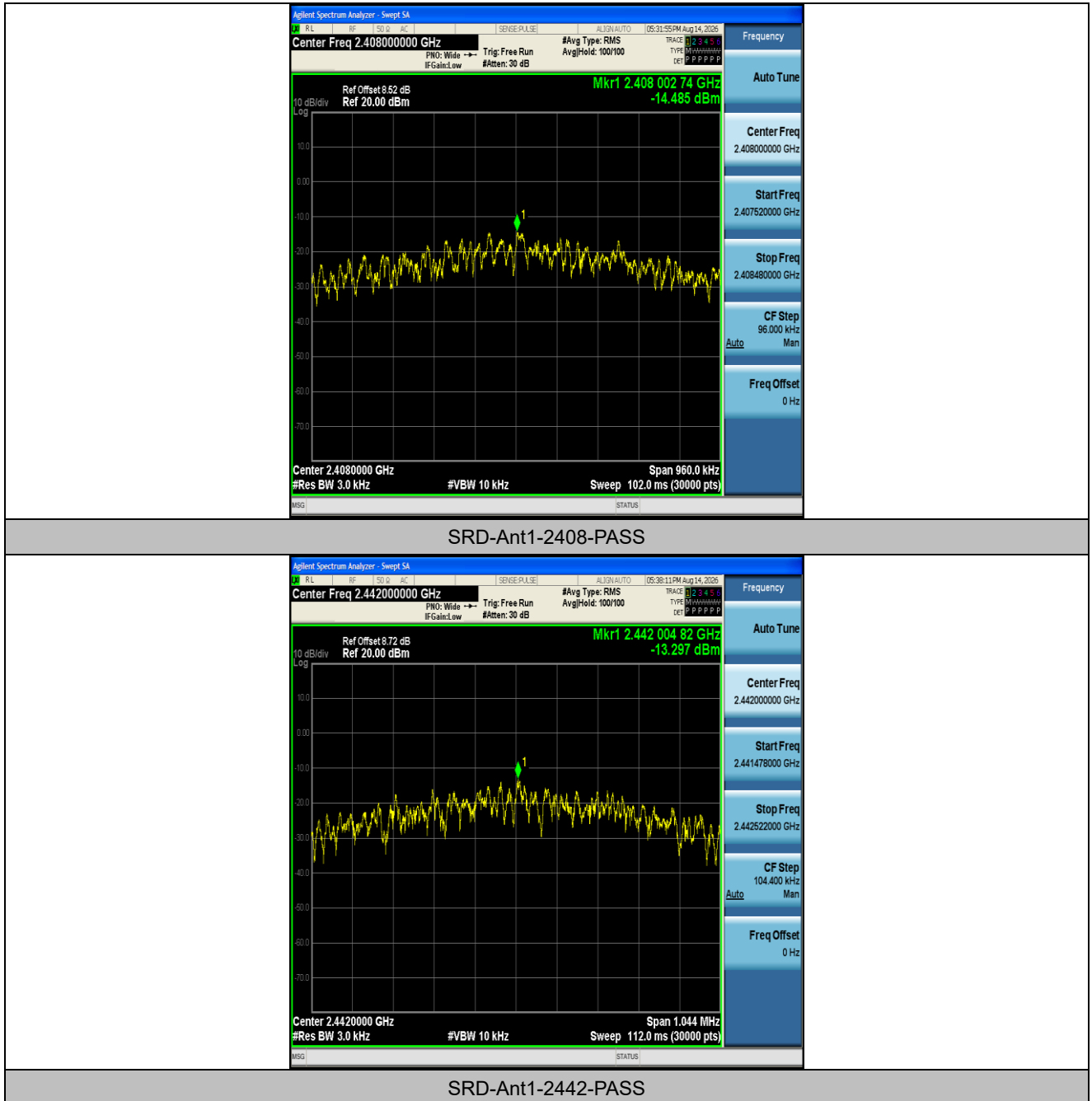
Test Mode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
SRD	Ant1	2408	-14.49	≤8.00	PASS
SRD	Ant1	2442	-13.30	≤8.00	PASS
SRD	Ant1	2475	-14.06	≤8.00	PASS

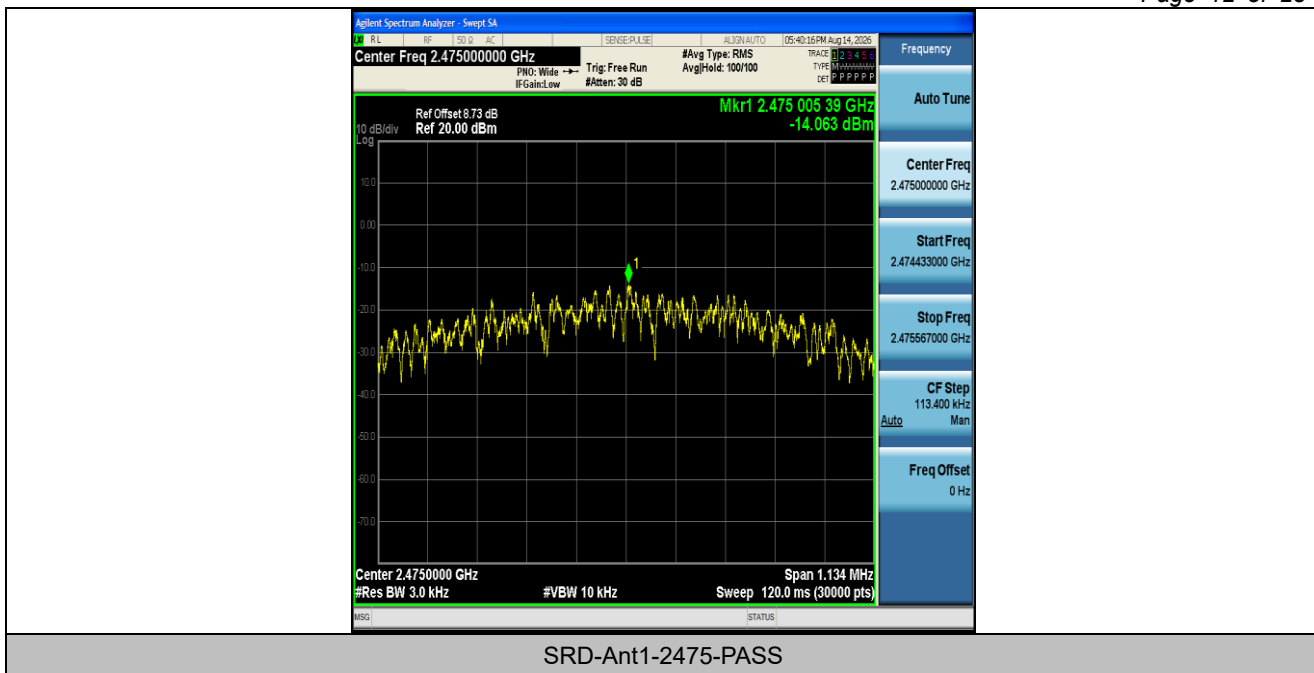
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs







Appendix E: Band edge measurements

Test Result

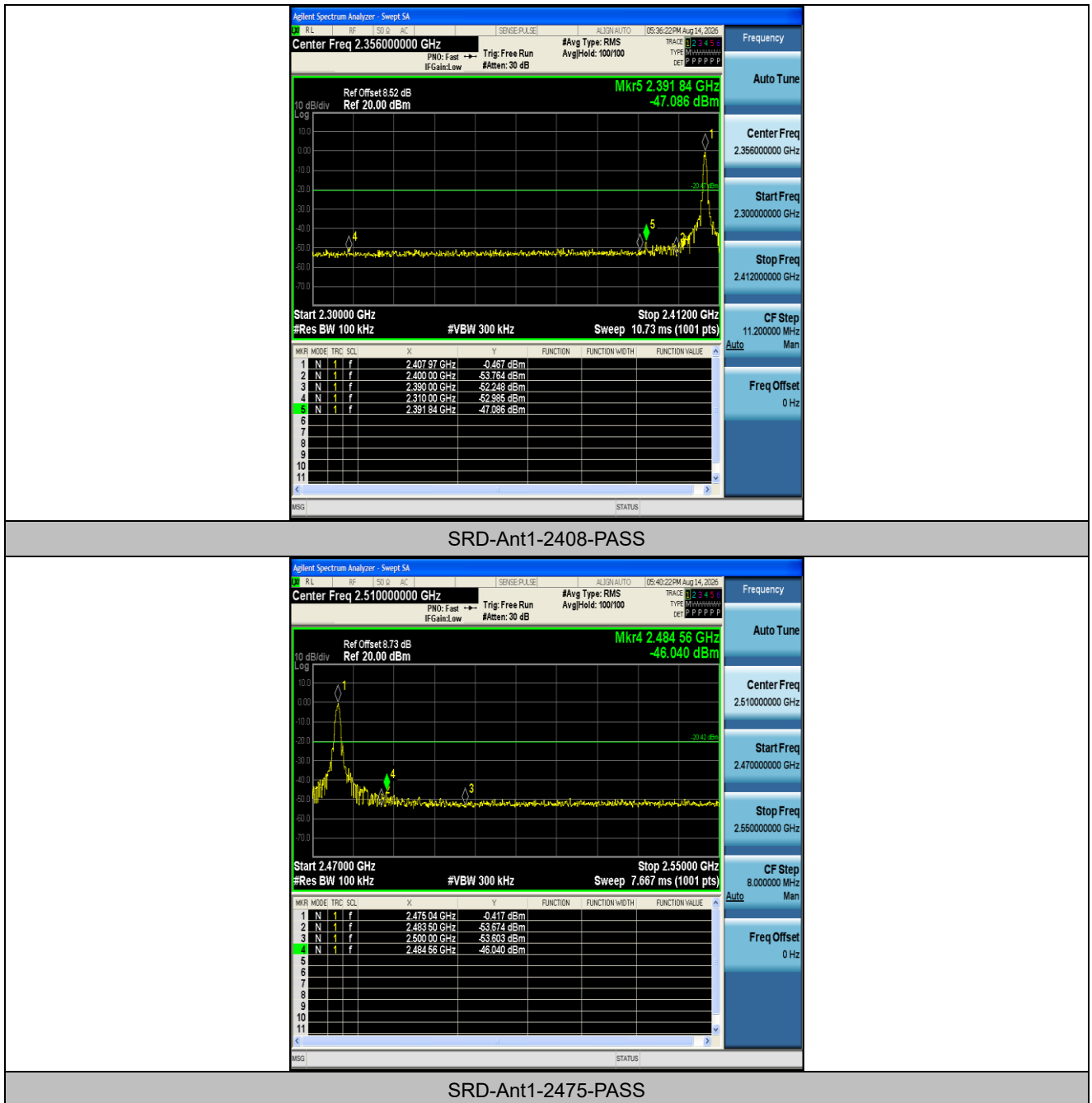
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	Low	2408	-0.47	-47.09	≤ -20.47	PASS
SRD	Ant1	High	2475	-0.42	-46.04	≤ -20.42	PASS

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





Test Graphs





Appendix F: Conducted Spurious Emission

Test Result

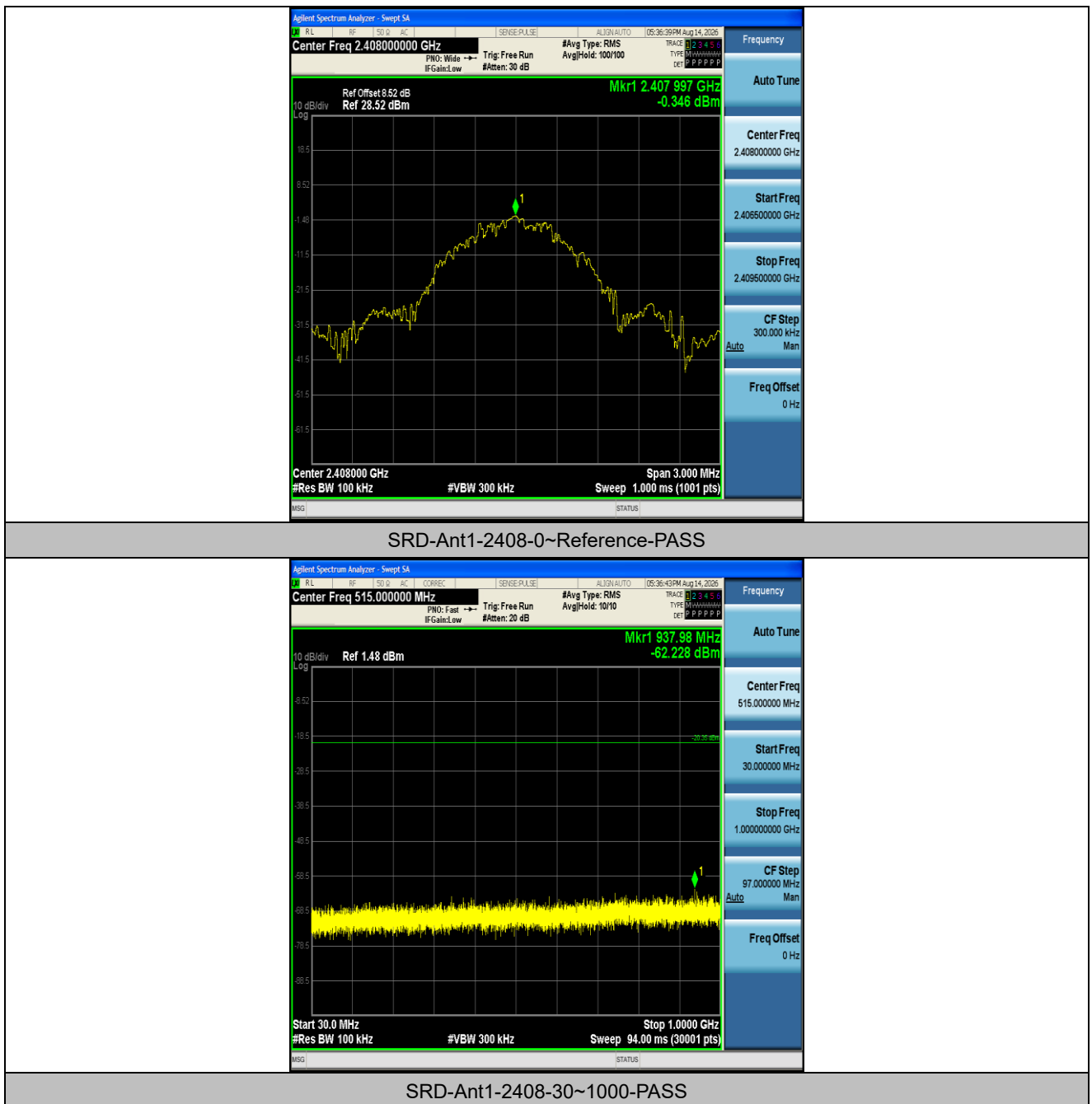
Test Mode	Antenna	Frequency [MHz]	Freq. Range [MHz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
SRD	Ant1	2408	0~Reference	-0.35	-0.35	---	PASS
SRD	Ant1	2408	30~1000	-0.35	-62.23	≤-20.35	PASS
SRD	Ant1	2408	1000~26500	-0.35	-37.5	≤-20.35	PASS
SRD	Ant1	2442	0~Reference	0.27	0.27	---	PASS
SRD	Ant1	2442	30~1000	0.27	-62.93	≤-19.73	PASS
SRD	Ant1	2442	1000~26500	0.27	-37.54	≤-19.73	PASS
SRD	Ant1	2475	0~Reference	0.07	0.07	---	PASS
SRD	Ant1	2475	30~1000	0.07	-62.99	≤-19.93	PASS
SRD	Ant1	2475	1000~26500	0.07	-37.64	≤-19.93	PASS

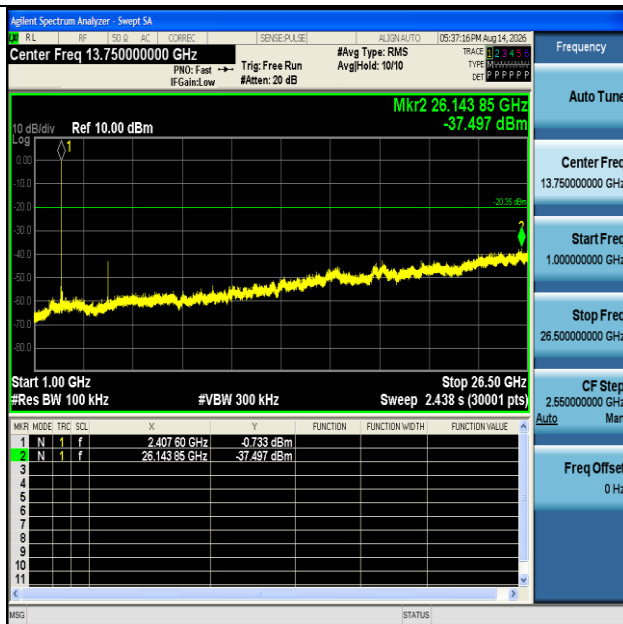
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 26.5GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



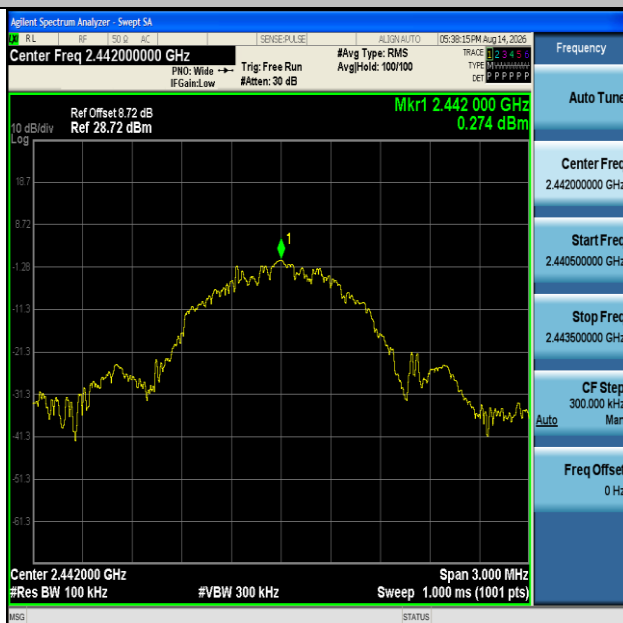


Test Graphs



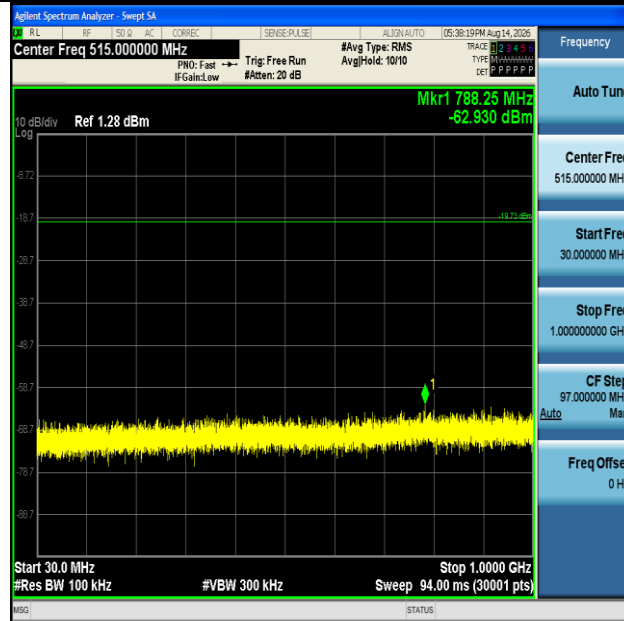


SRD-Ant1-2408-1000~26500-PASS



SRD-Ant1-2442-0~Reference-PASS





SRD-Ant1-2442-30~1000-PASS

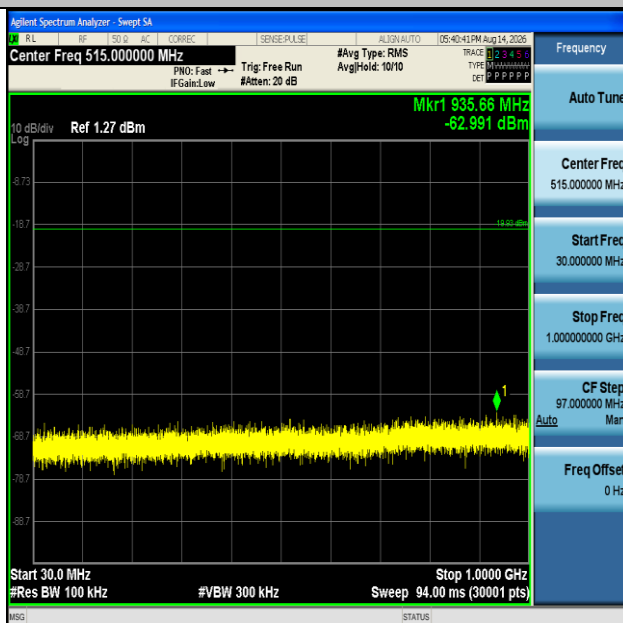


SRD-Ant1-2442-1000~26500-PASS



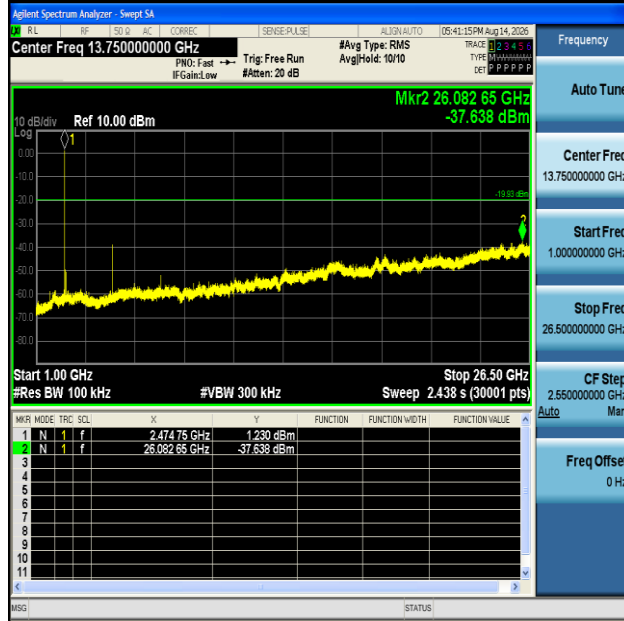


SRD-Ant1-2475-0~Reference-PASS



SRD-Ant1-2475-30~1000-PASS





SRD-Ant1-2475-1000~26500-PASS





Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
SRD	Ant1	2408	0.22	0.61	36.07	4.43
SRD	Ant1	2442	0.22	0.61	36.07	4.43
SRD	Ant1	2475	0.22	0.61	36.07	4.43

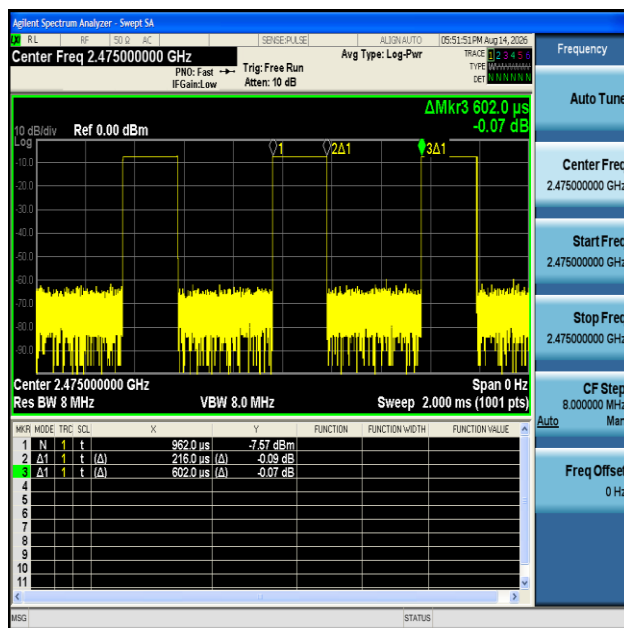
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)





Test Graphs





NTNV-SRD-Ant1-2475

