



Appendix A

RF Test Data for 915M (Conducted Measurement)

Product Name: DwarfG2_v2 USB_powered

Test Model: DwarfG2_v2

Environmental Conditions

Temperature:	23.9°C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Paddi Chen

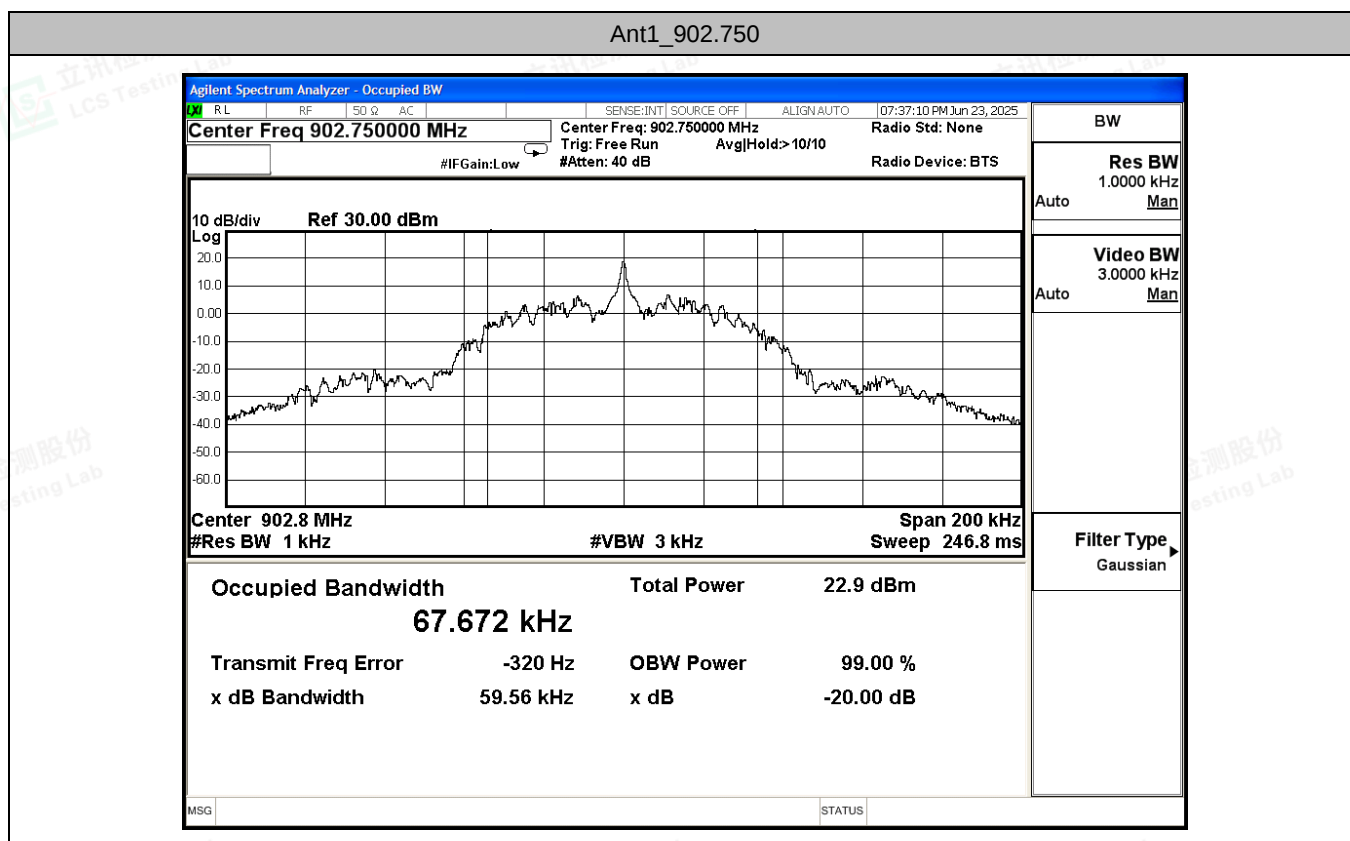


A.1 20dB Emission Bandwidth

Test Result

Antenna	Channel[MHz]	20db EBW[kHz]	Limit[MHz]	Verdict
Ant1	902.750	59.56	---	PASS
	914.750	59.49	---	PASS
	927.250	55.05	---	PASS

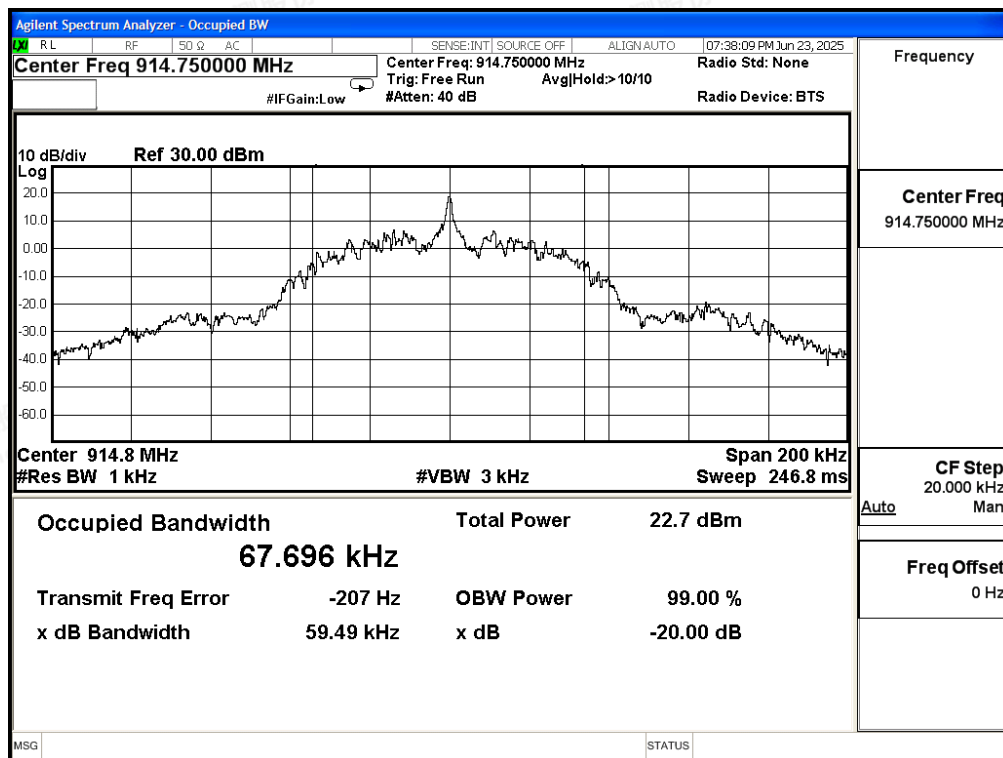
Test Graphs



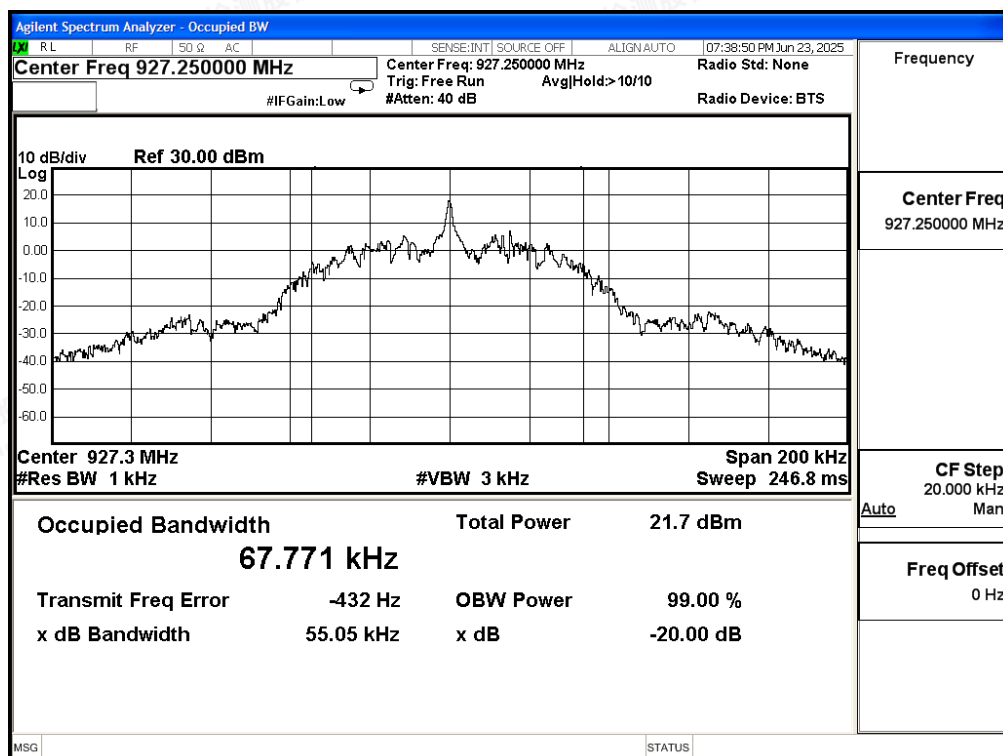
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Ant1_914.750



Ant1_927.250



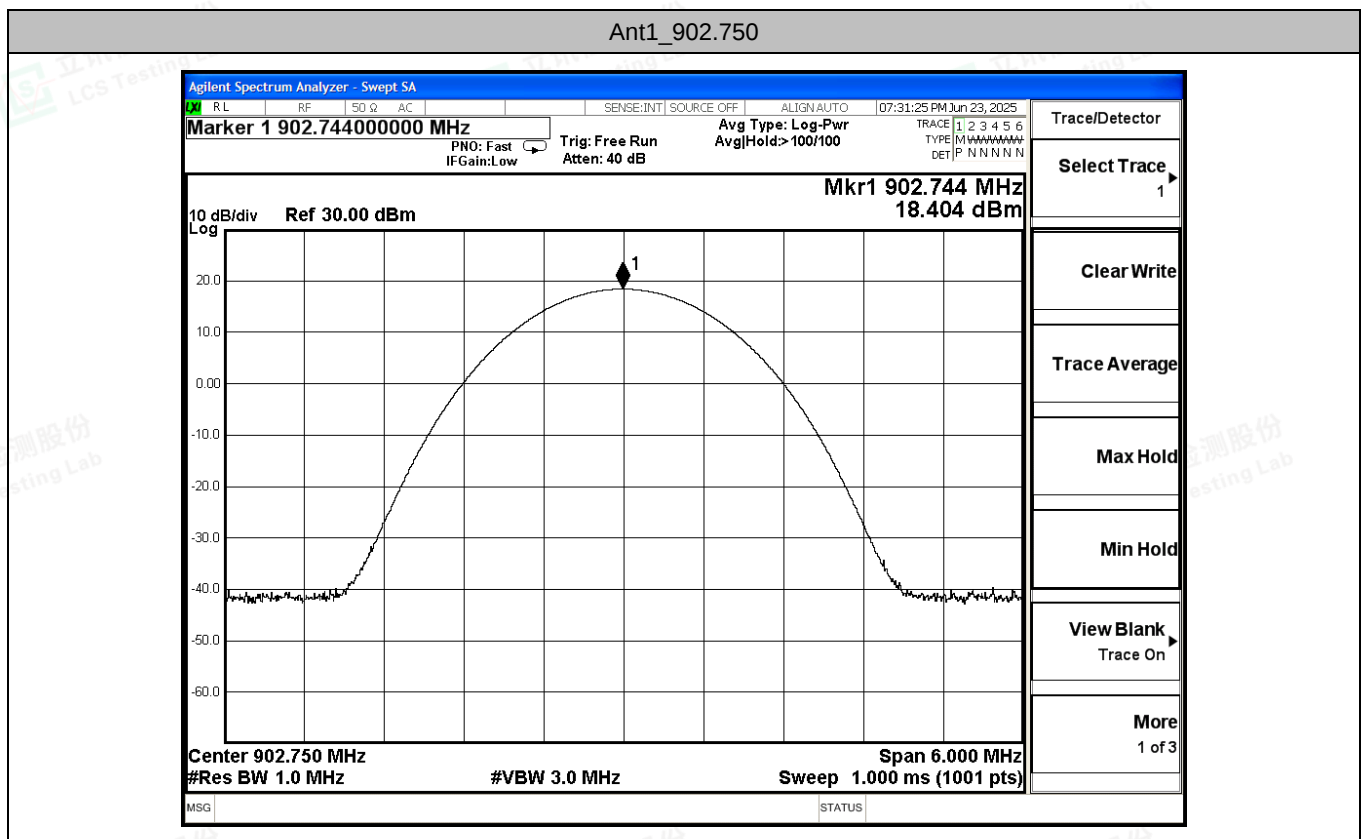


A.2 Maximum Peak Conducted Output Power

Test Result Peak

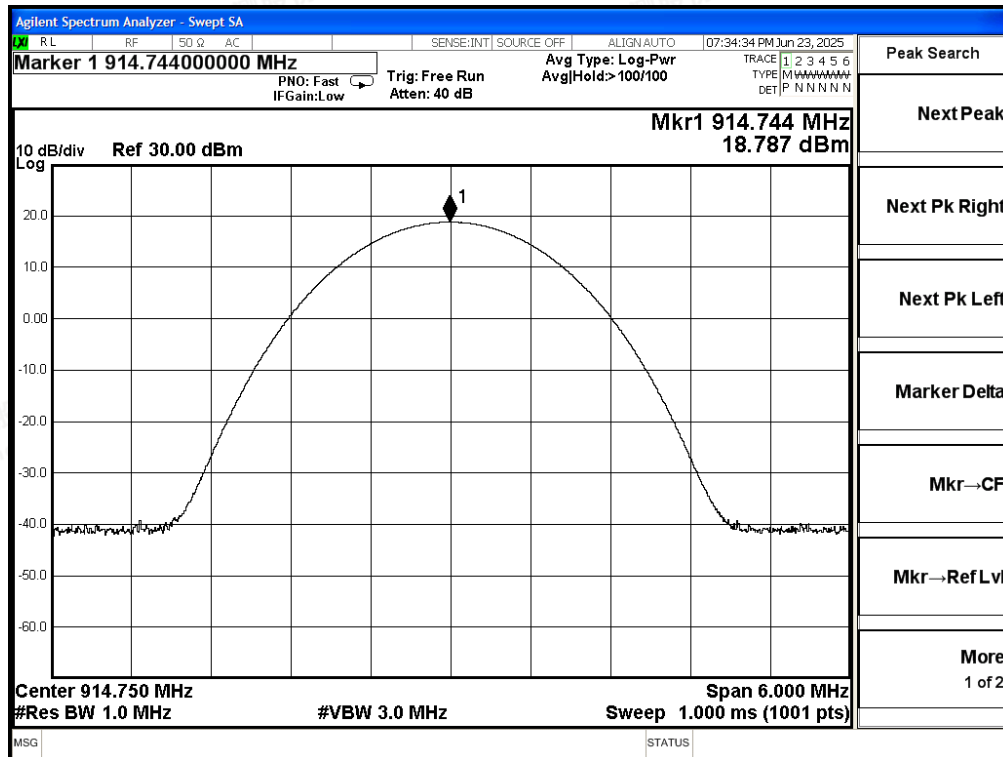
Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Ant1	902.750	18.404	≤30	PASS
	914.750	18.787	≤30	PASS
	927.250	18.484	≤30	PASS

Test Graphs

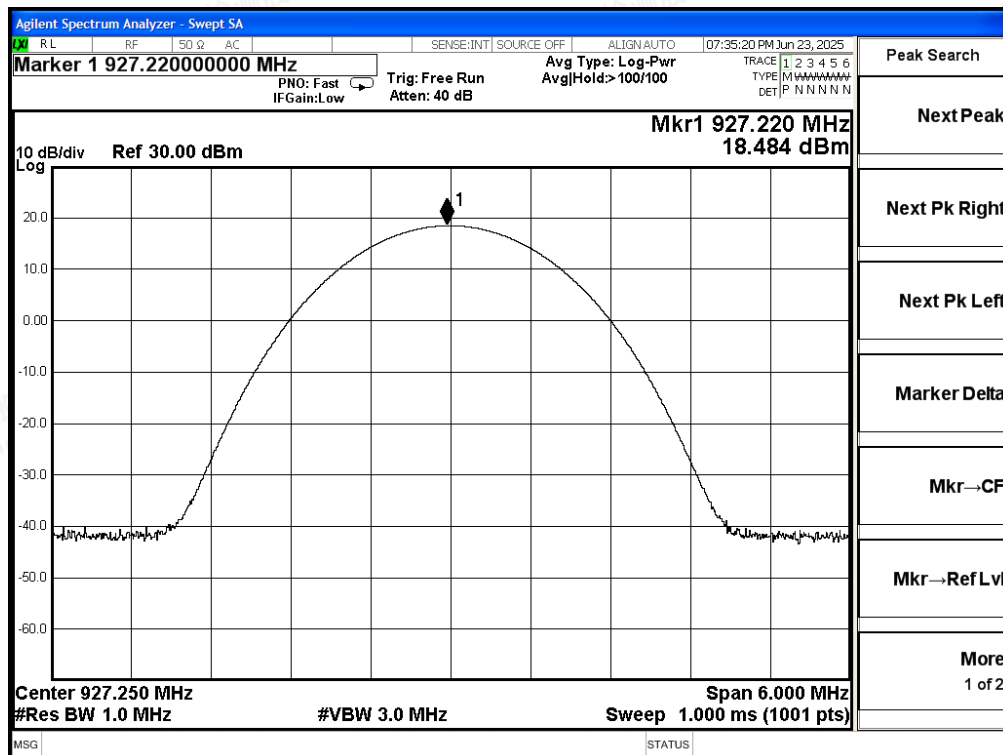




Ant1_914.750



Ant1_927.250



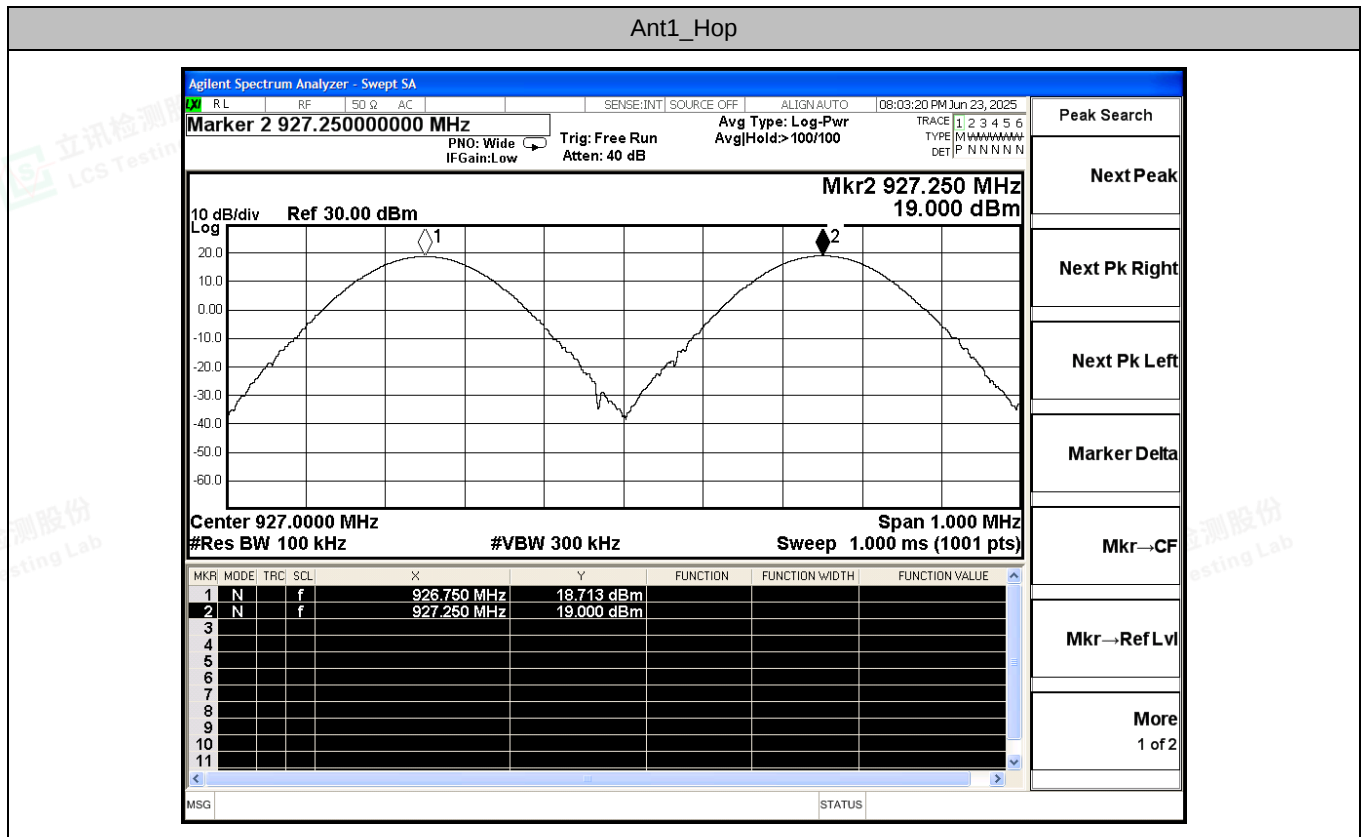


A.3 Carrier frequency separation

Test Result

Antenna	Channel[MHz]	Result[kHz]	Limit[kHz]	Verdict
Ant1	Hop	500	--	PASS

Test Graphs





A.4 Time of occupancy

Test Result

Antenna	Channel[MHz]	Burst Width[ms]	Total Hops[Num]	Result[ms]	Limit[ms]	Verdict
Ant1	Hop	204	1.95	397.8	<=400	PASS

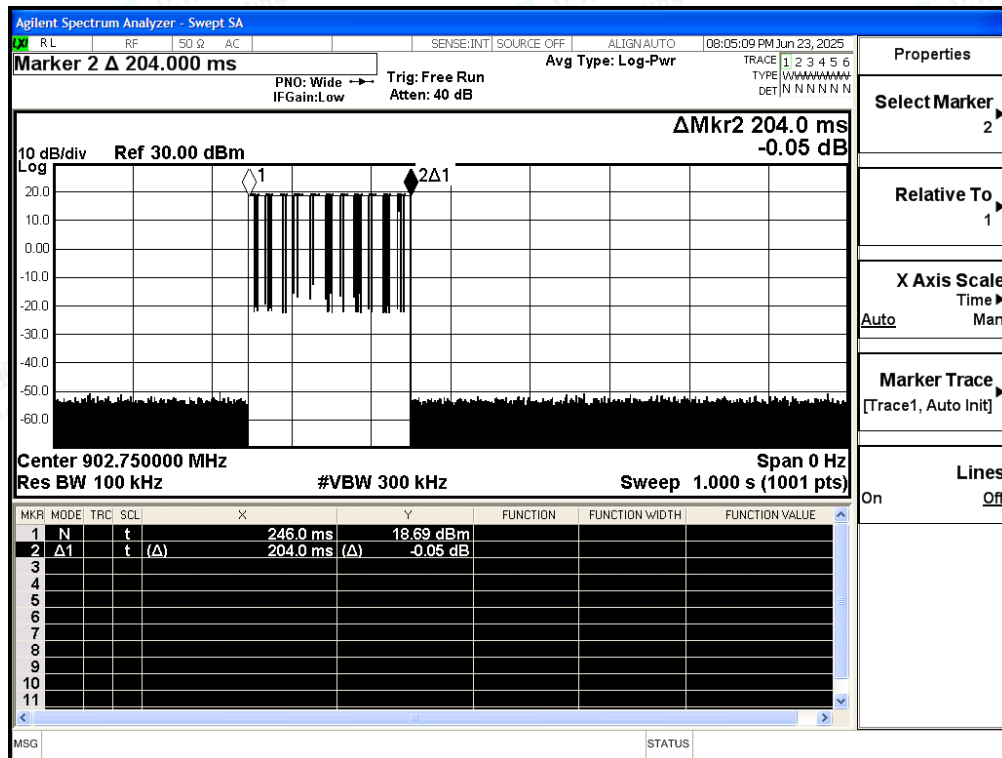


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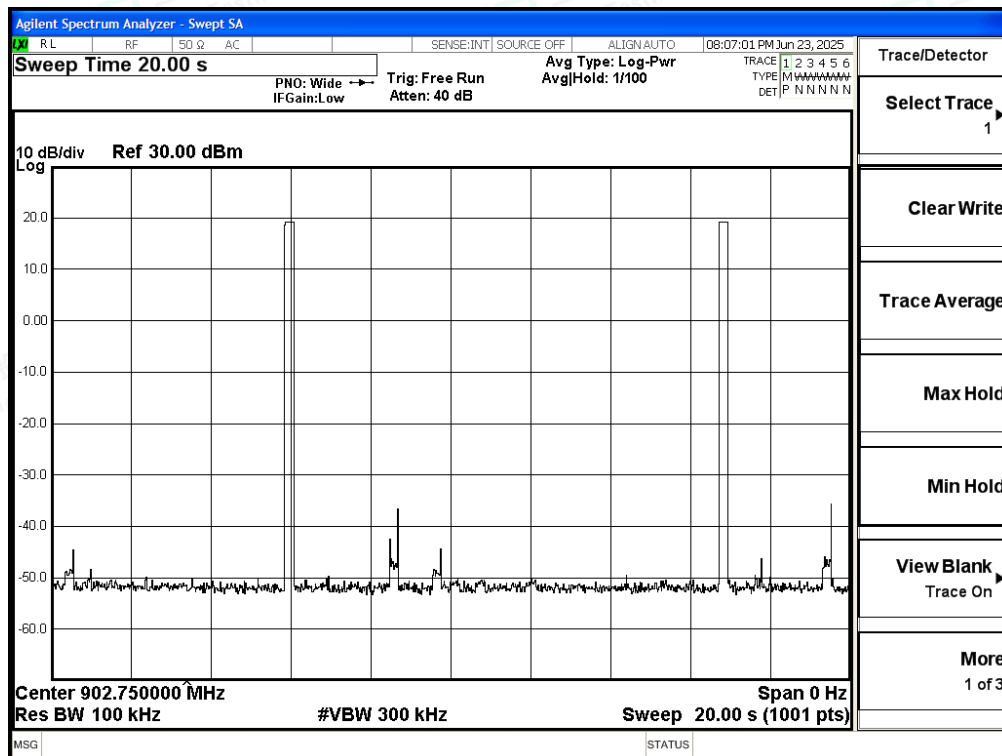


Test Graphs

Ant1_Hop



Ant1_Hop



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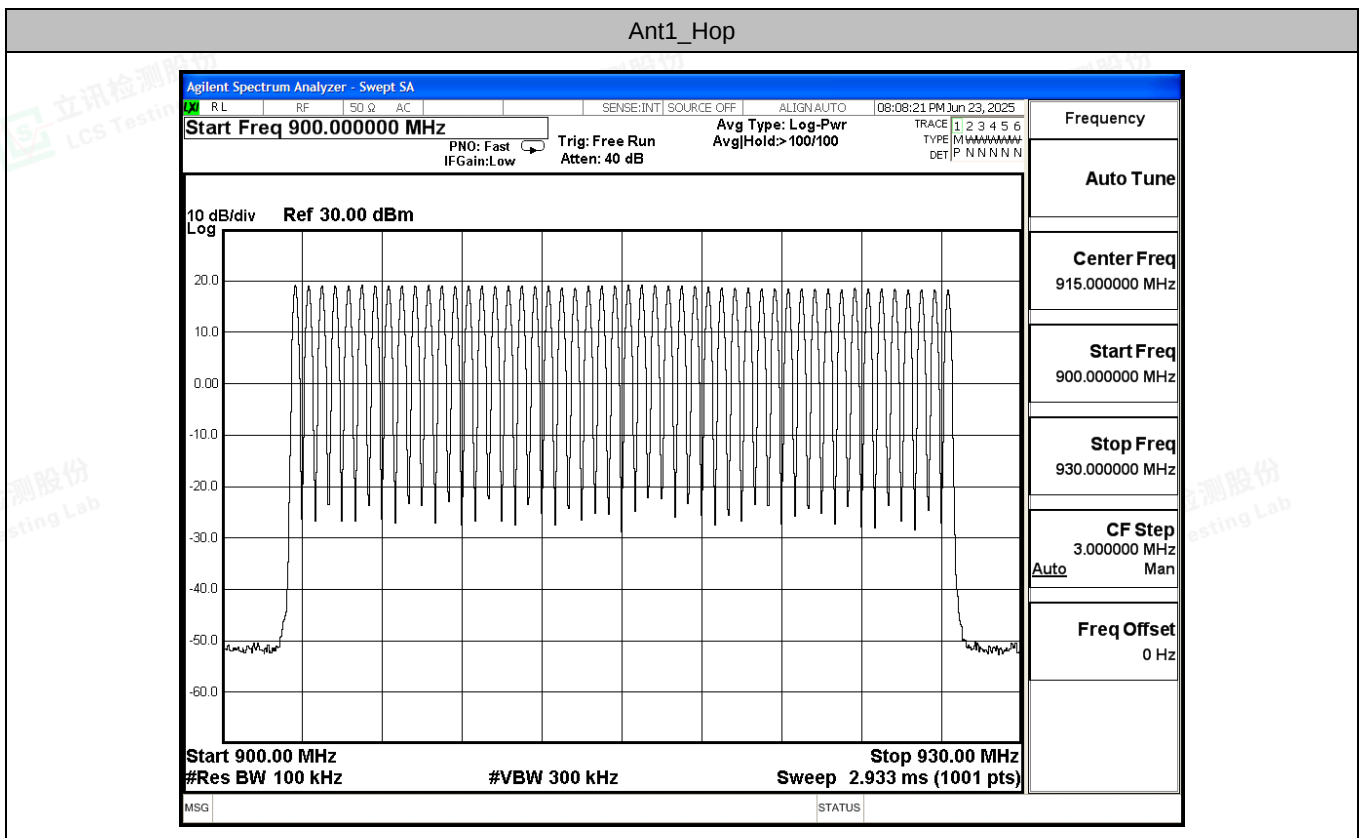


A.5 Number of hopping channels

Test Result

Antenna	Channel	Result[Num]	Limit[Num]	Verdict
Ant1	Hop	50	>=50	PASS

Test Graphs



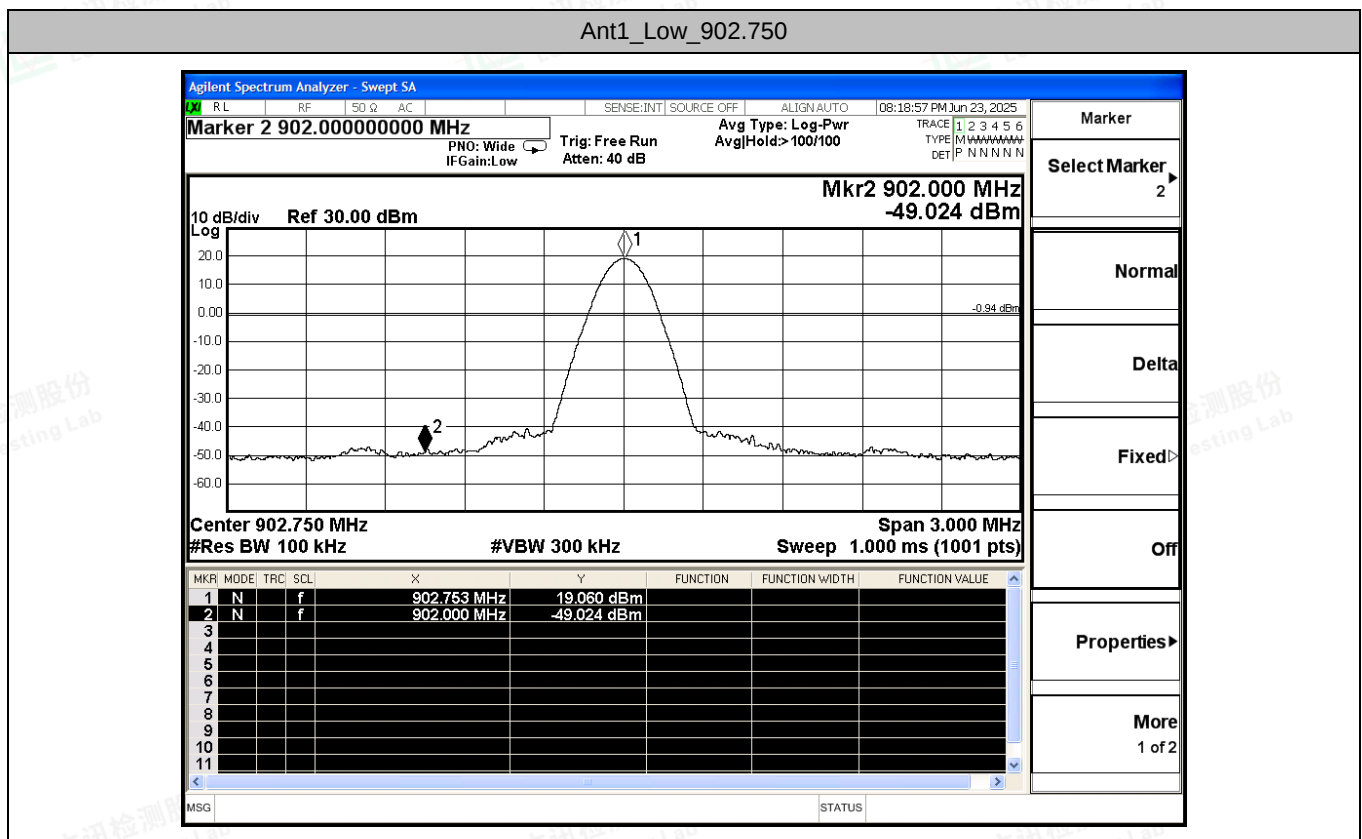


A.6 Band edge measurements

Test Result

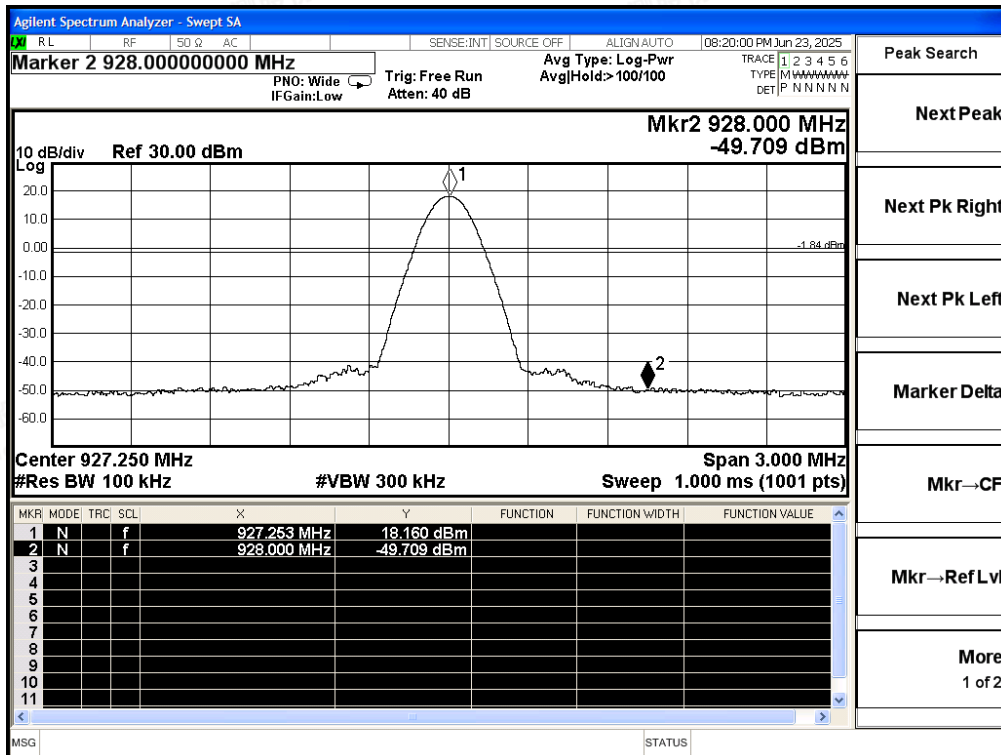
Antenna	Ch Name	Channel[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Ant1	Low	902.750	19.060	-49.024	<=7.66	PASS
	High	927.250	18.160	-49.709	<=7.92	PASS
	Low	Hop_902.750	19.243	-51.369	<=-5.28	PASS
	High	Hop_927.250	18.369	-51.209	<=-5.46	PASS

Test Graphs

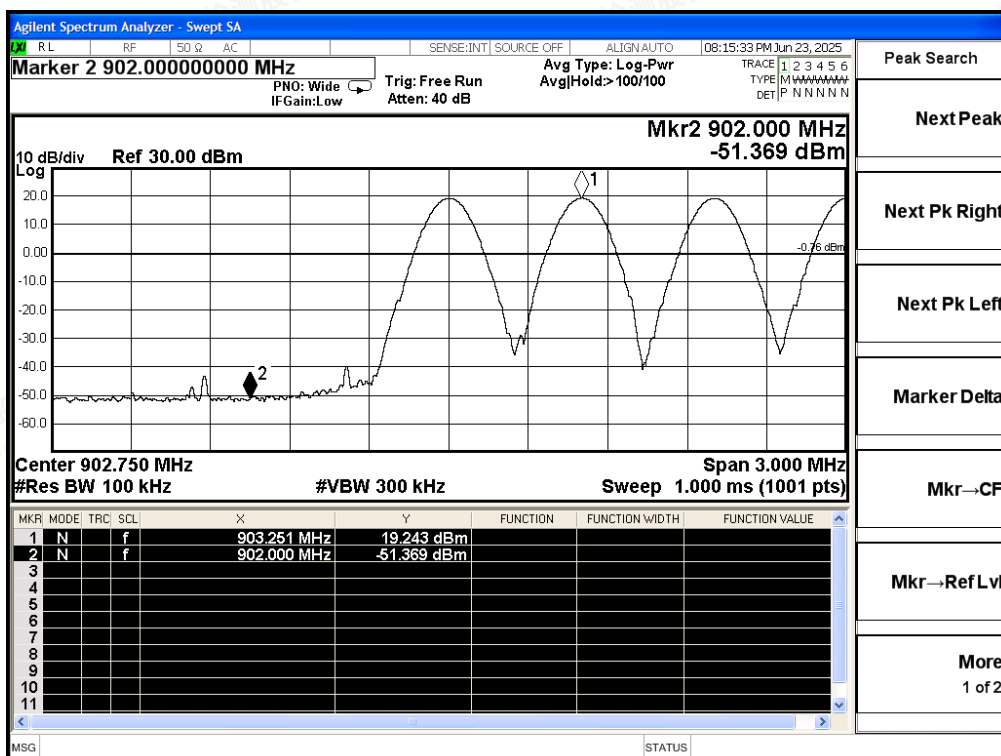




Ant1_High_927.250



Ant1_Low_Hop_902.750



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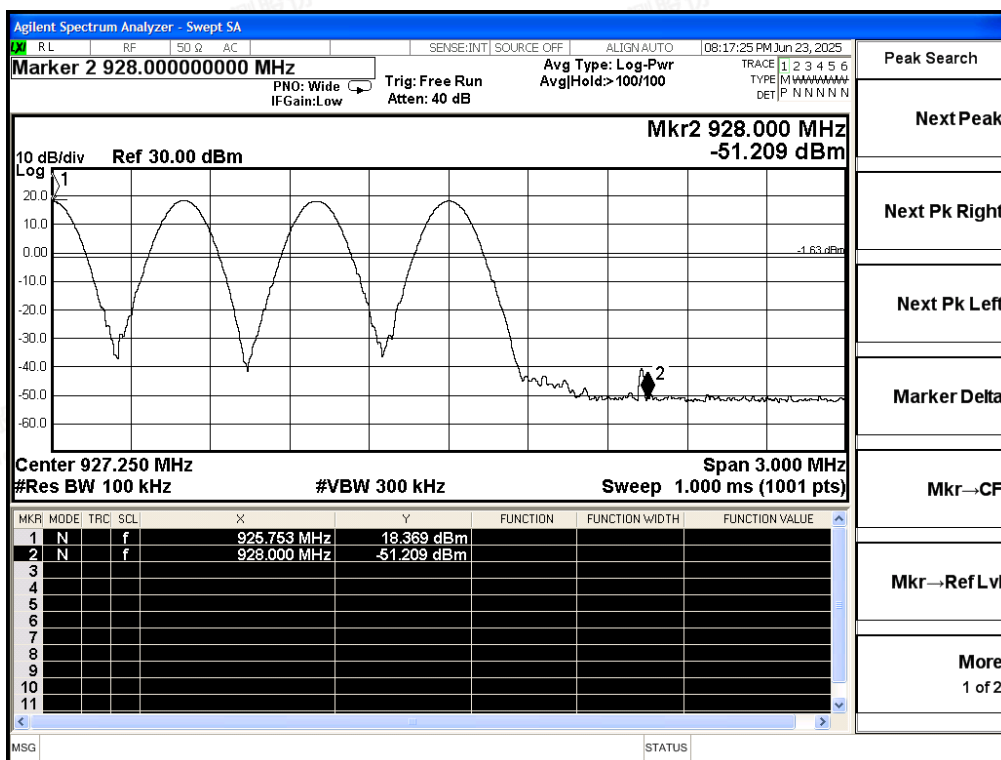
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Ant1_High_Hop_927.250





A.7 Conducted Spurious Emission

Test Result

Antenna	Channel[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
Ant1	902.750	Reference	19.021	19.021	---	PASS
		30~26500	19.021	-37.892	≤ -0.98	PASS
	914.750	Reference	19.085	19.085	---	PASS
		30~26500	19.085	-37.294	≤ -0.91	PASS
	927.250	Reference	18.167	18.167	---	PASS
		30~26500	18.167	-38.109	≤ -1.83	PASS

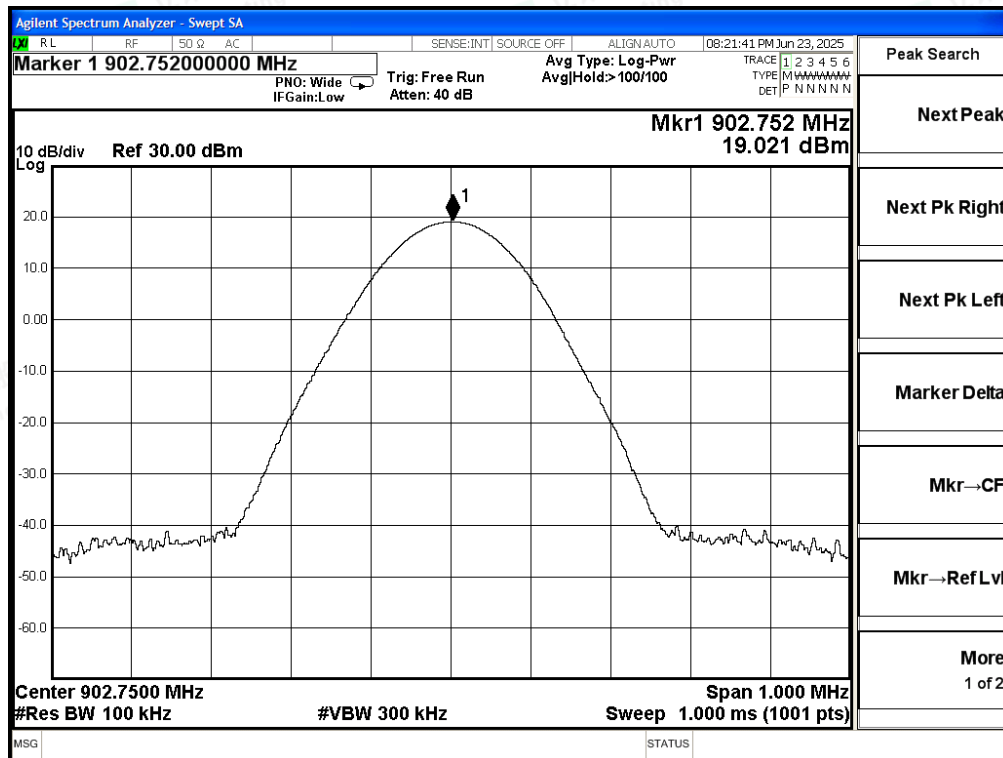


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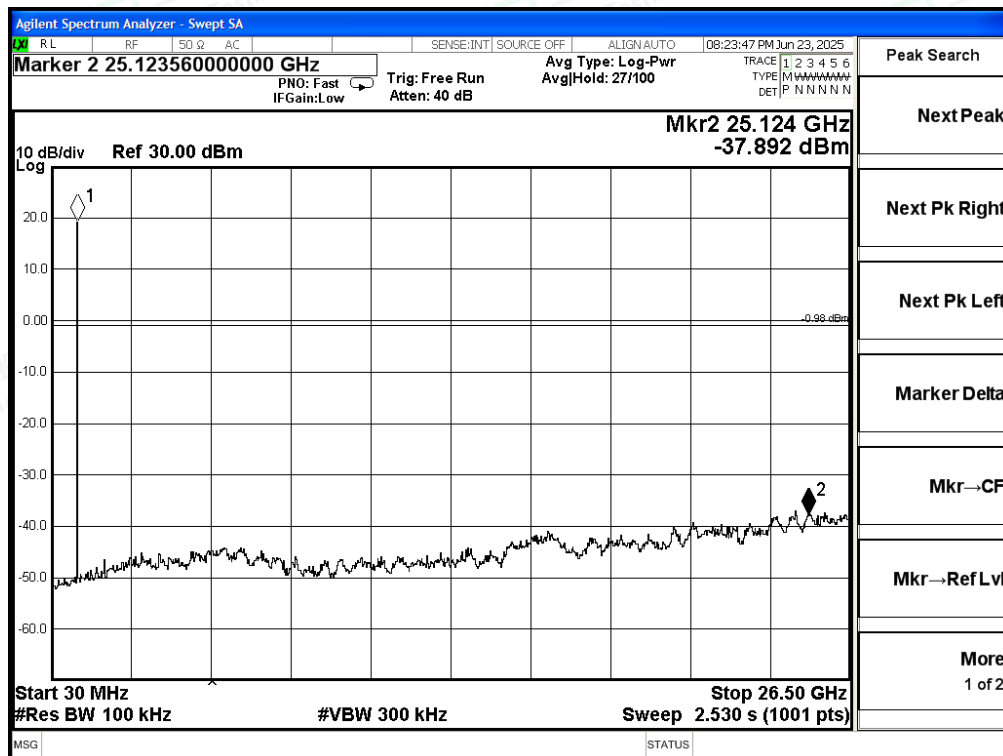


Test Graphs

Ant1_902.750_0~Reference



Ant1_902.750_30~26500



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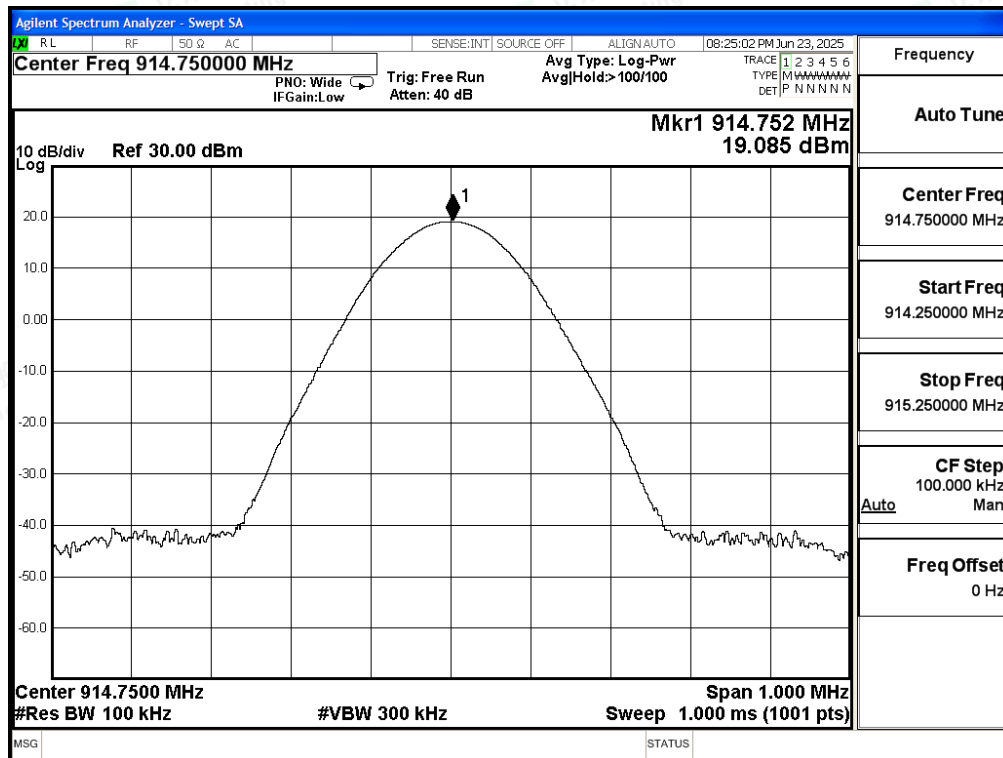
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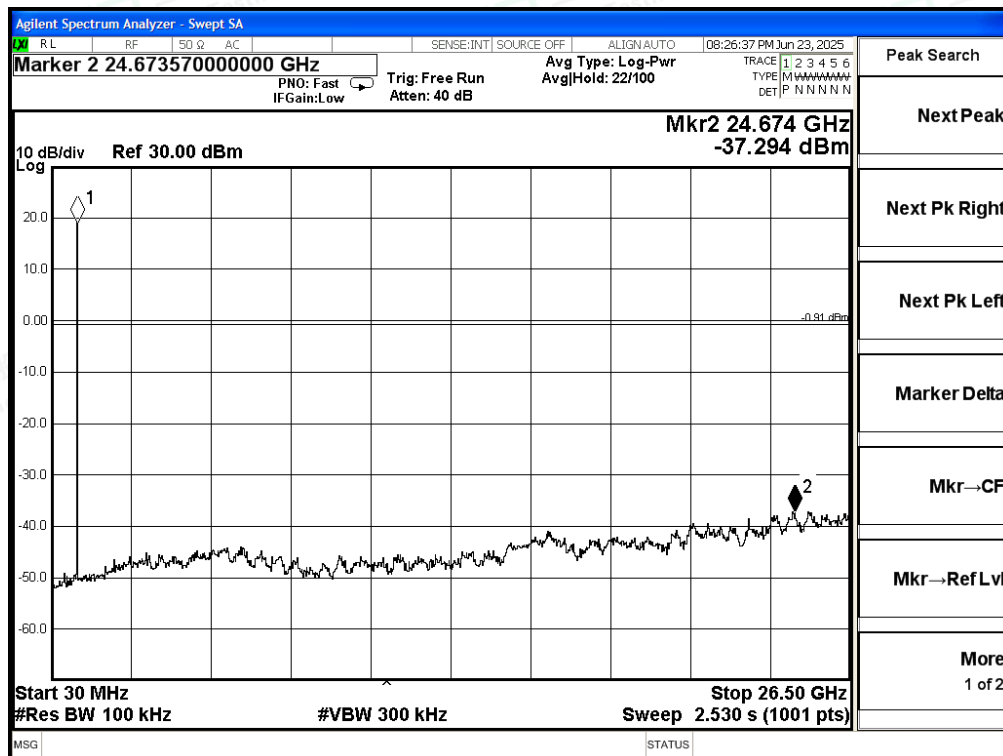
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Ant1_914.750_0~Reference

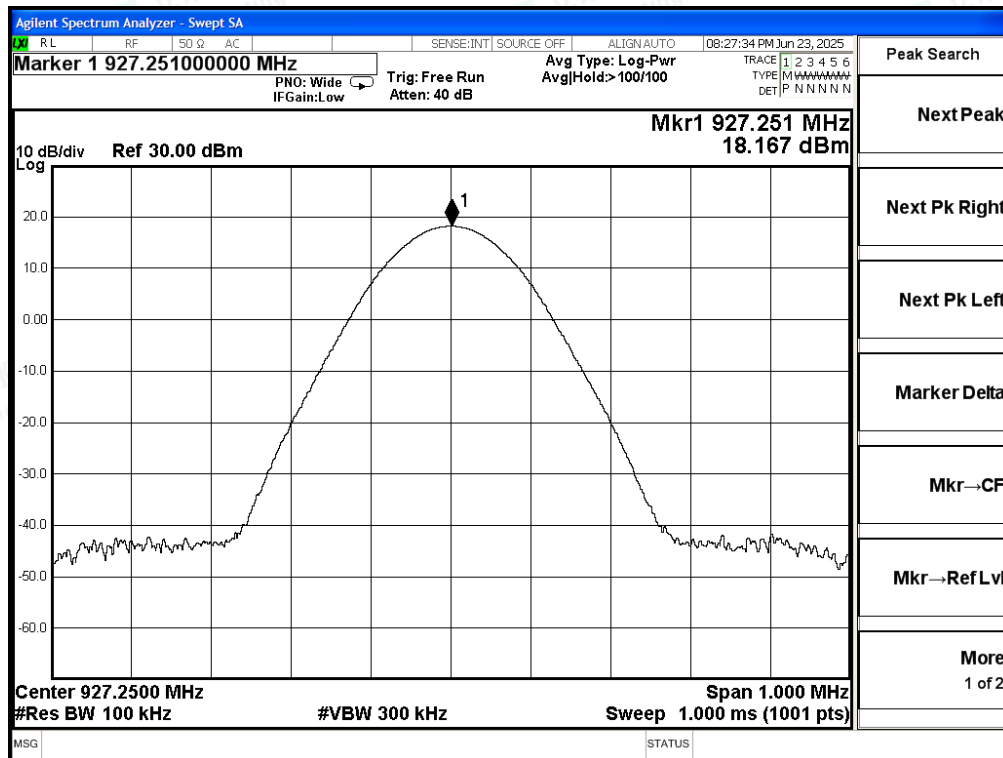


Ant1_914.750_30~26500

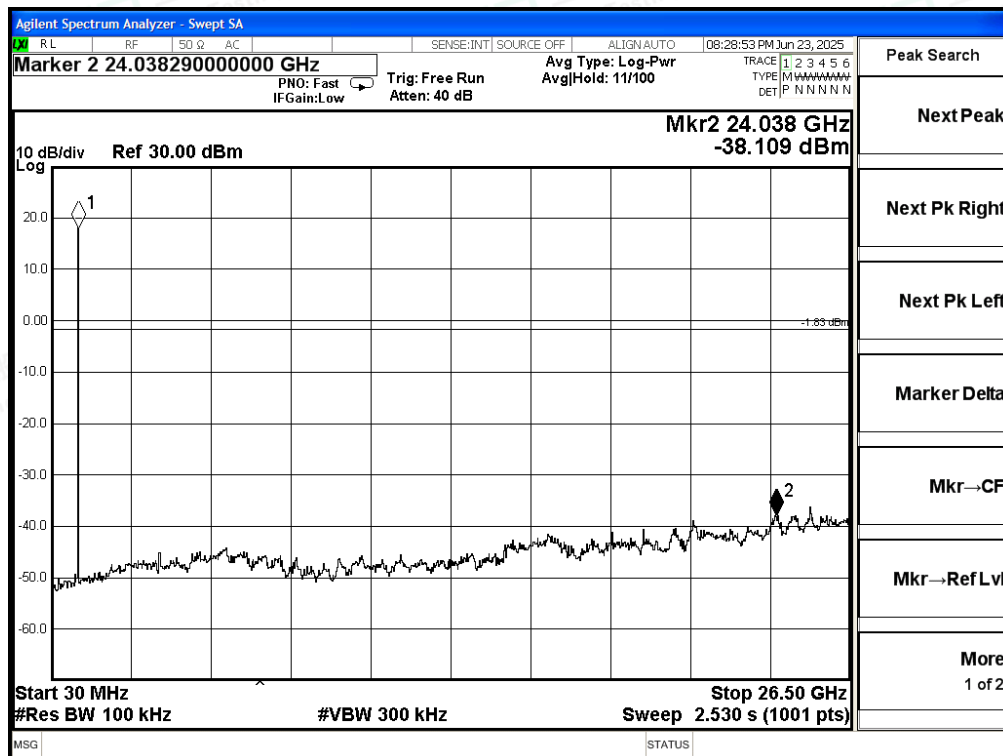




Ant1_927.250_0~Reference



Ant1_927.250_30~26500



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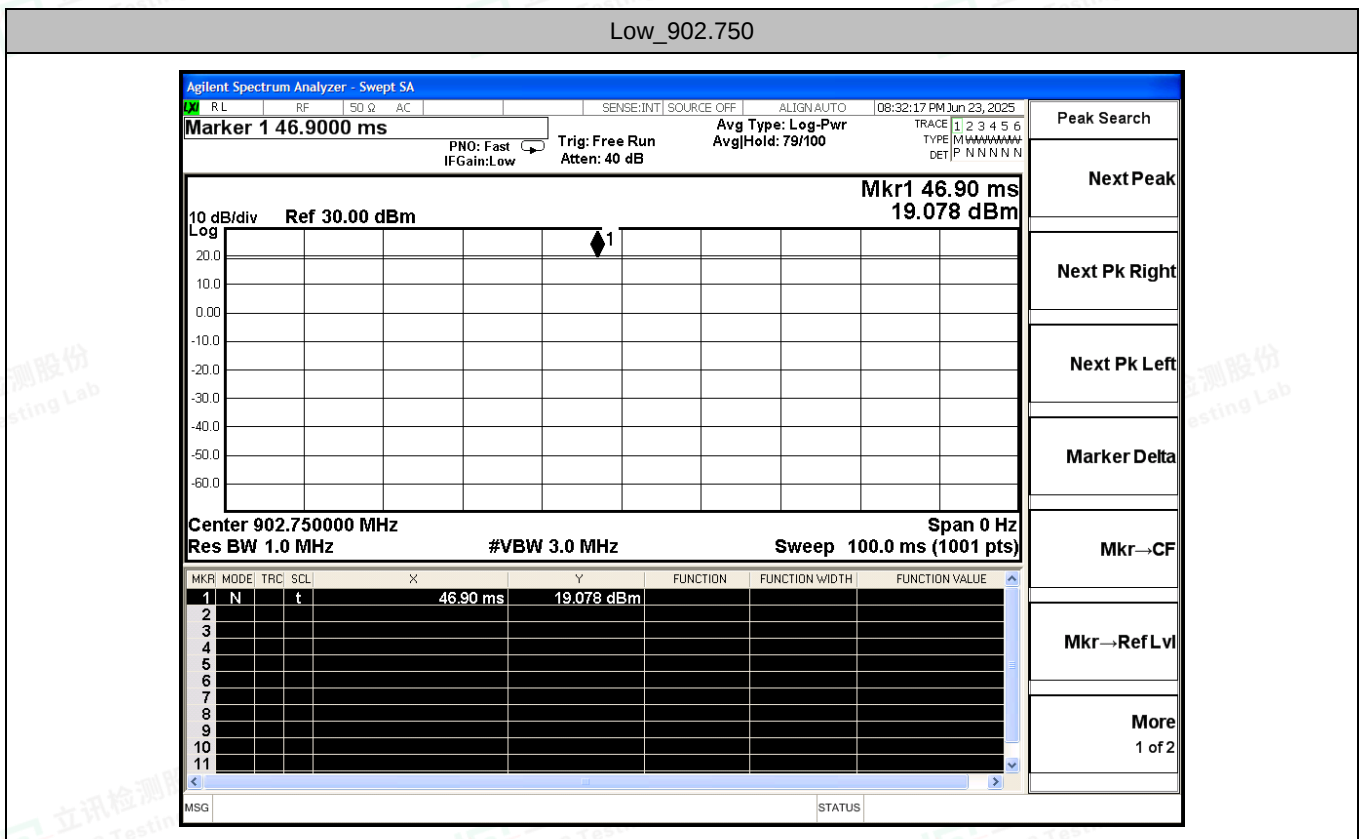


A.8 Duty Cycle

Test Result

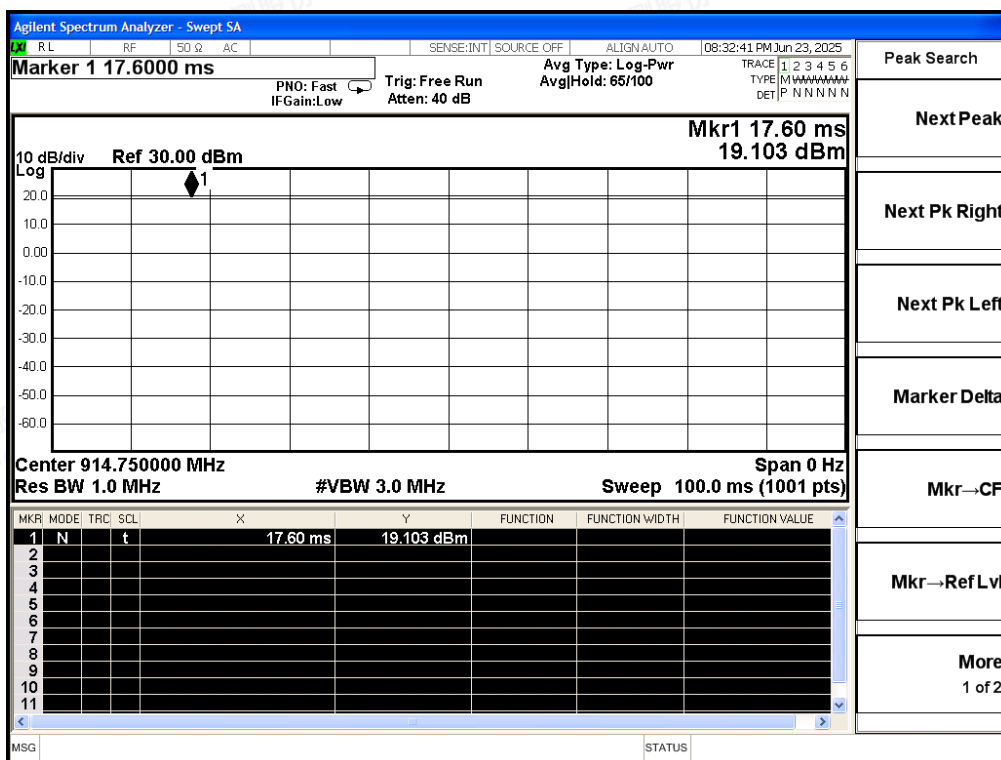
Antenna	Channel[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
Ant1	902.750	100.0	0	100	---	PASS
	914.750	100.0	0	100	---	PASS
	927.250	100.0	0	100	---	PASS

Test Graphs





Ant1_914.750



Ant1_927.250

