



Appendix A

RF Test Data for 915M (Conducted Measurement)

Product Name: PLRM

Test Model: PLRM

Environmental Conditions

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



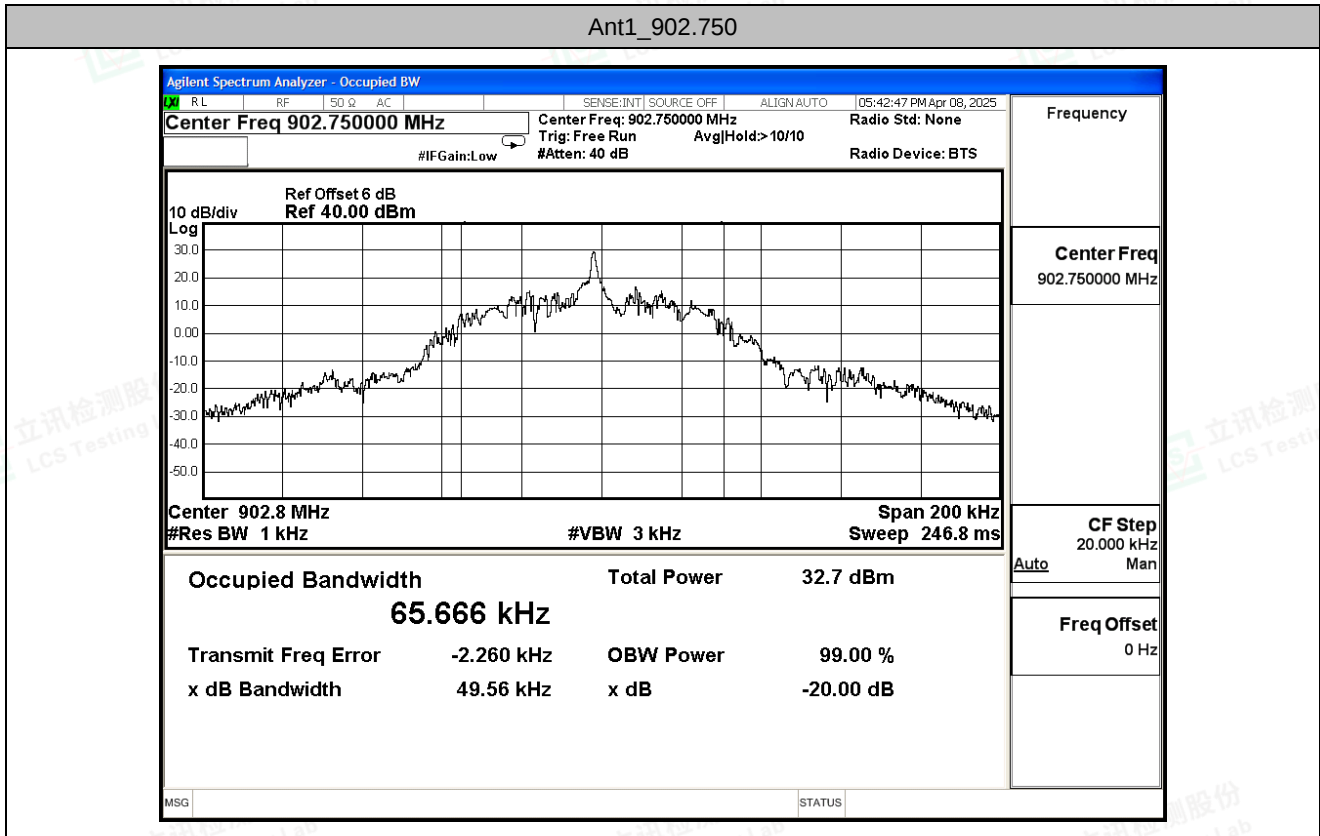


A.1 20dB Emission Bandwidth

Test Result

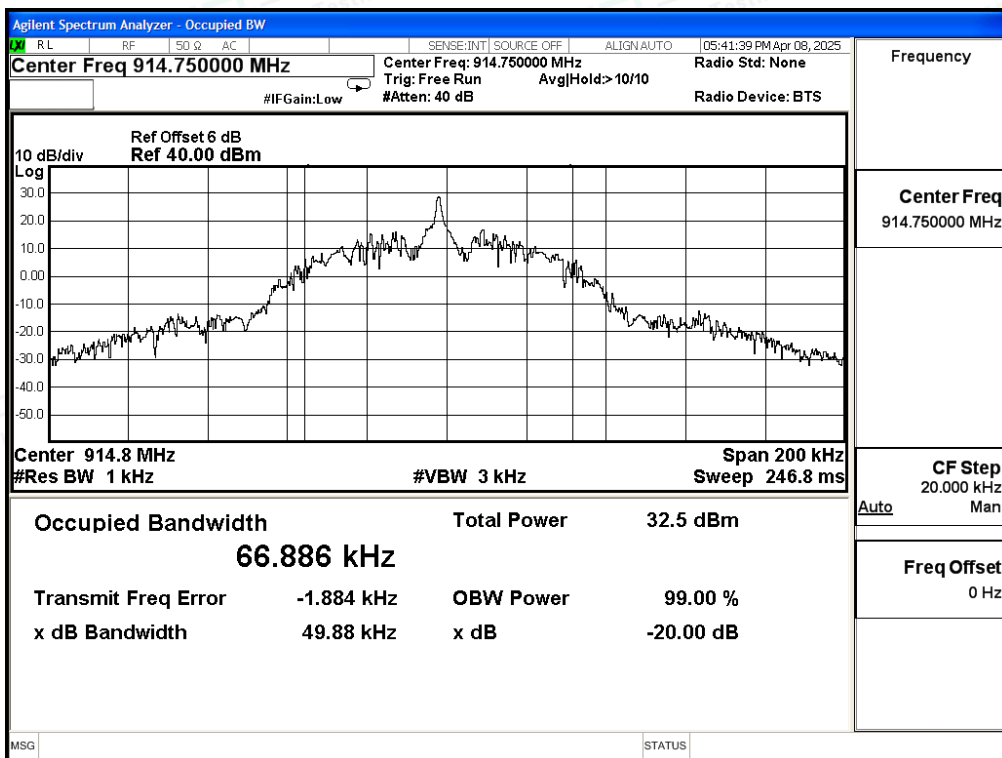
Antenna	Channel[MHz]	20db EBW[kHz]	Limit[MHz]	Verdict
Ant1	902.750	49.56	---	PASS
	914.750	49.88	---	PASS
	927.250	49.72	---	PASS

Test Graphs





Ant1_914.750



Ant1_927.250



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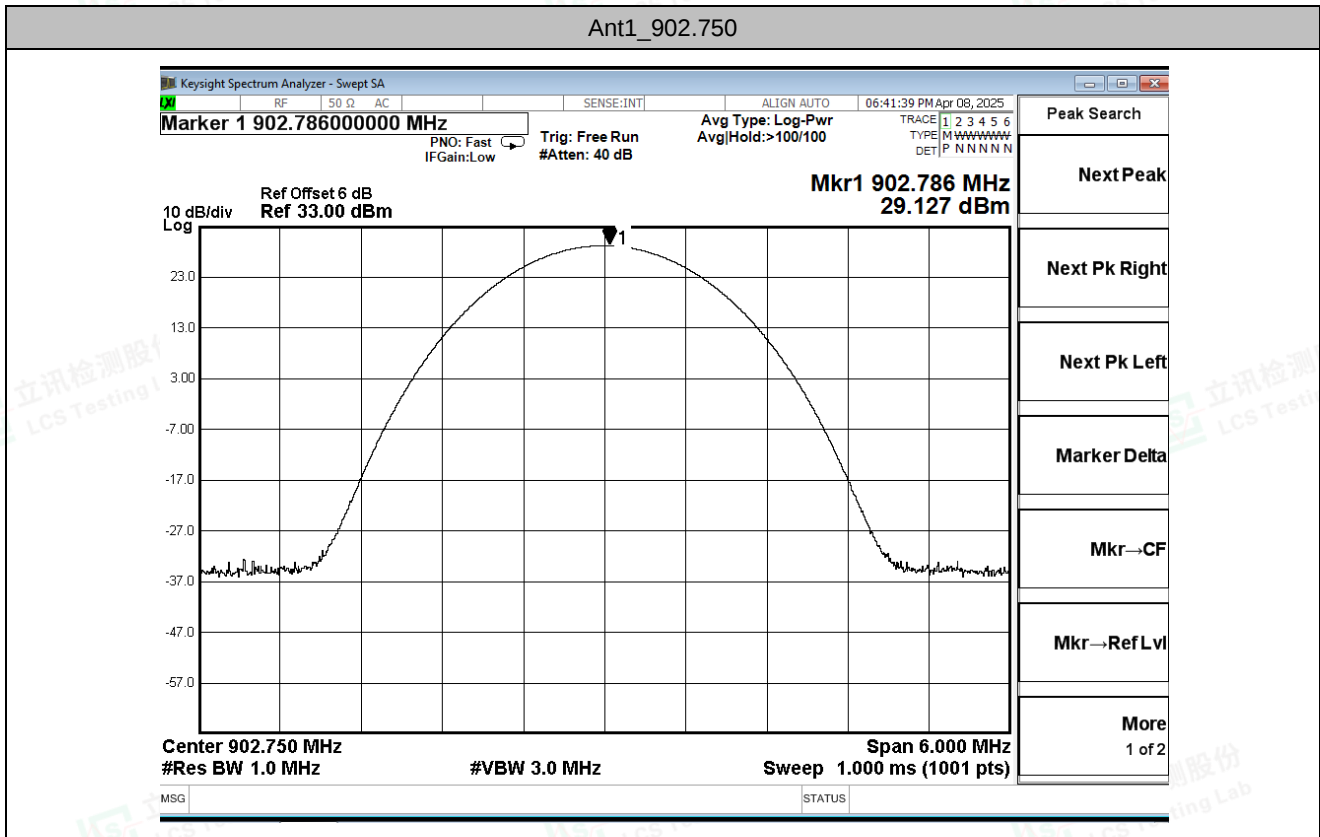


A.2 Maximum Peak Conducted Output Power

Test Result Peak

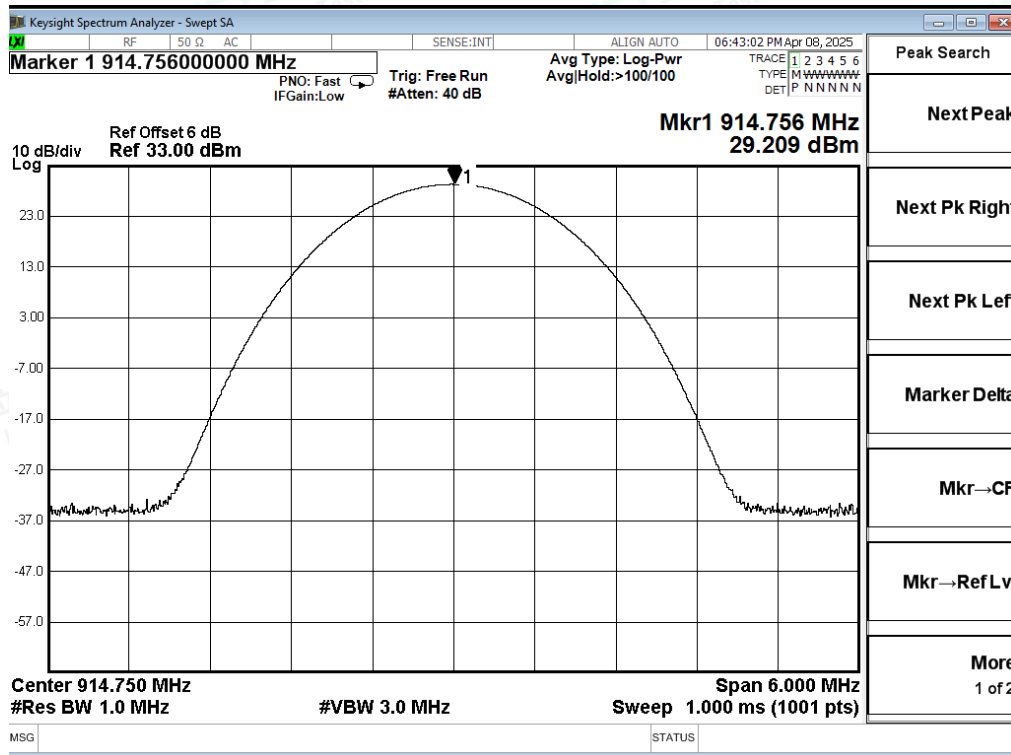
Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Ant1	902.750	29.13	≤30	PASS
	914.750	29.21	≤30	PASS
	927.250	29.41	≤30	PASS

Test Graphs

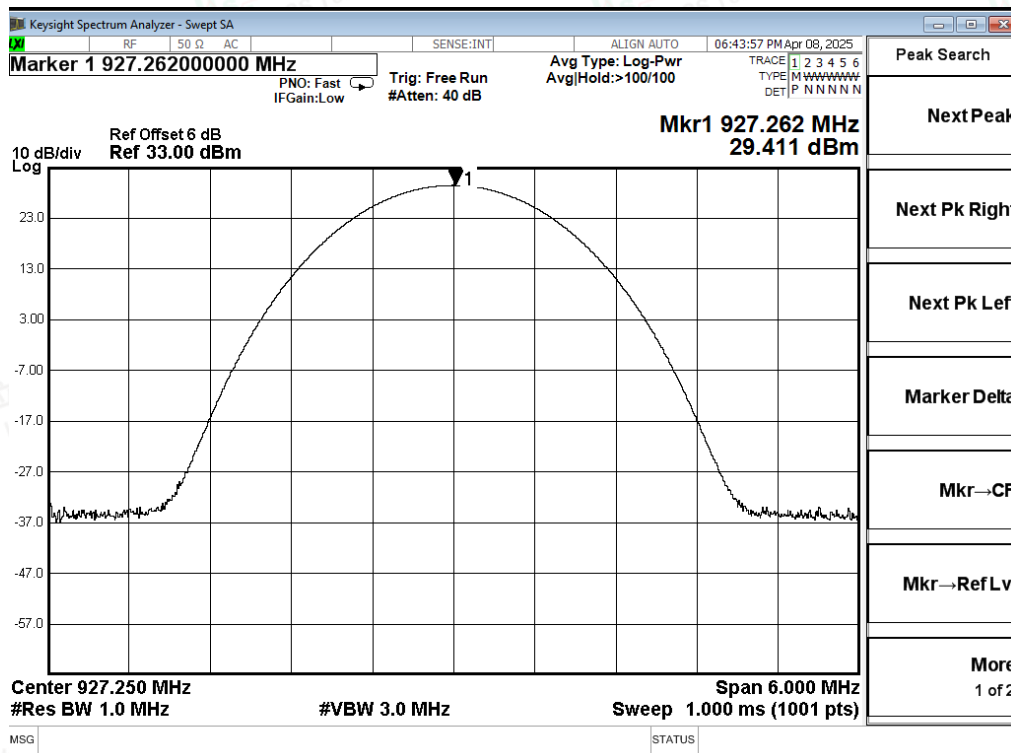




Ant1_914.750



Ant1_927.250



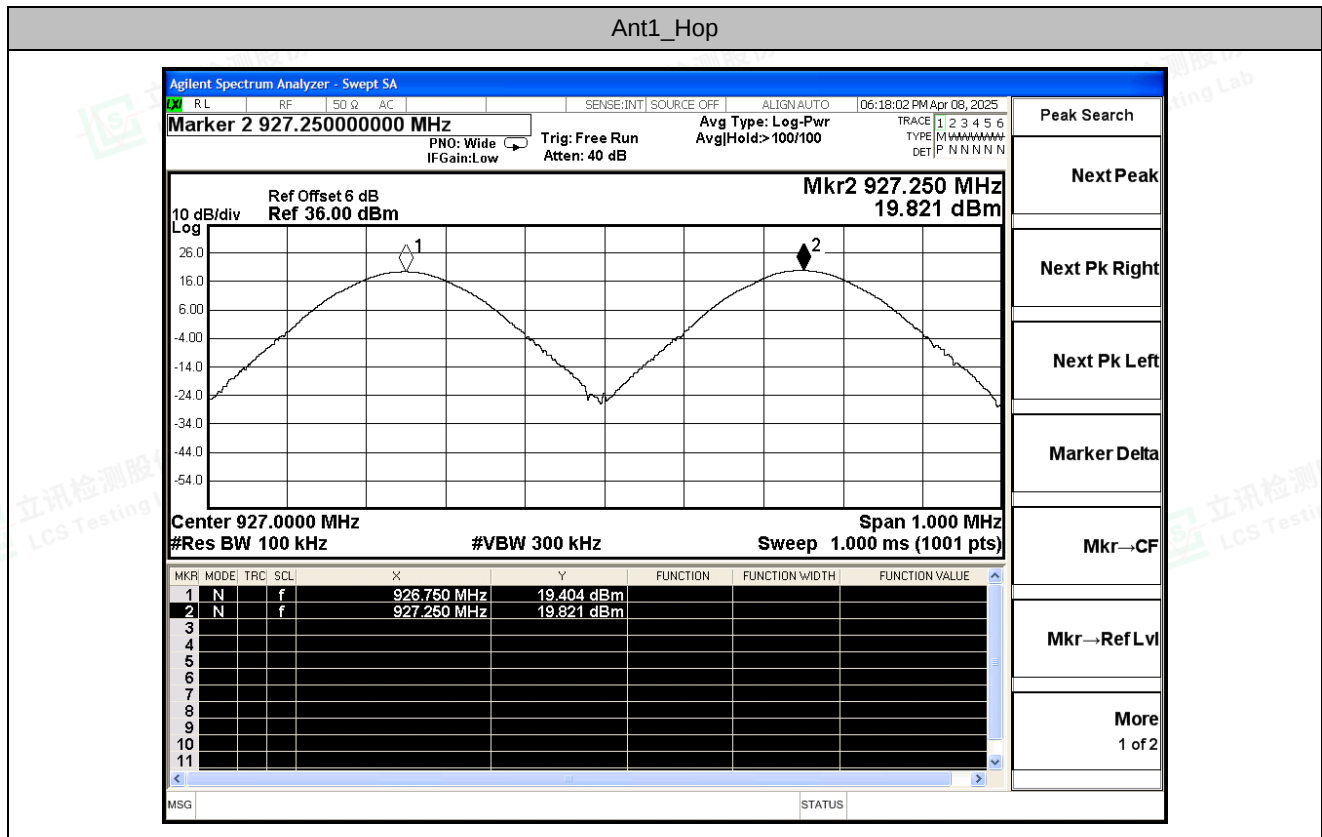


A.3 Carrier frequency separation

Test Result

Antenna	Channel[MHz]	Result[kHz]	Limit[kHz]	Verdict
Ant1	Hop	500	>=160.5	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	144	2	288	<=400	PASS

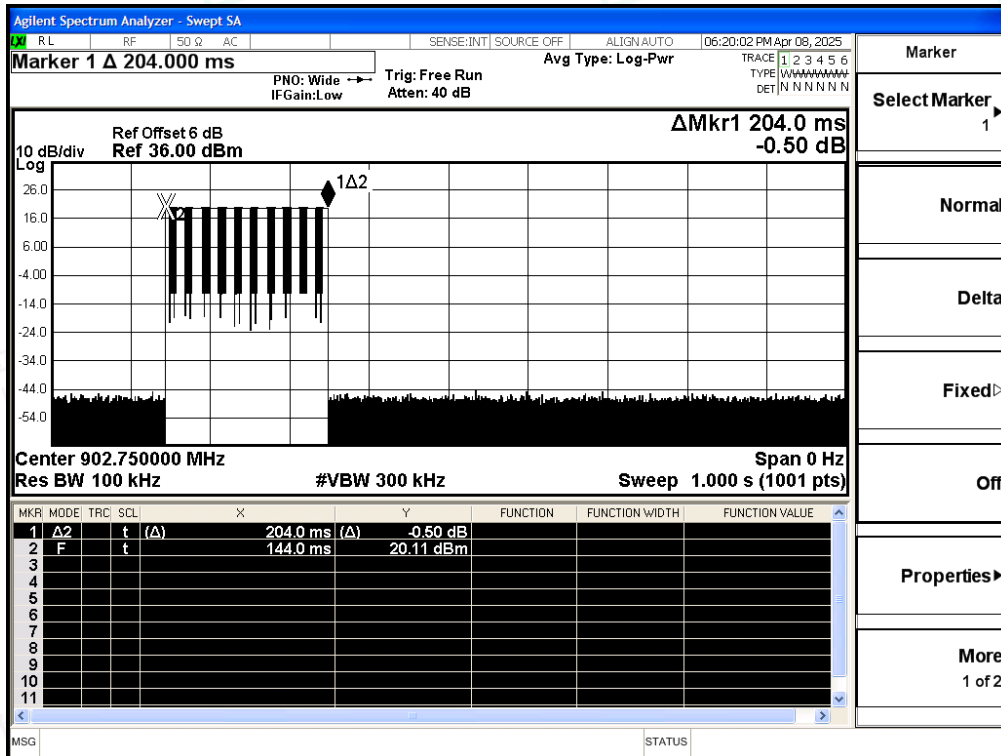


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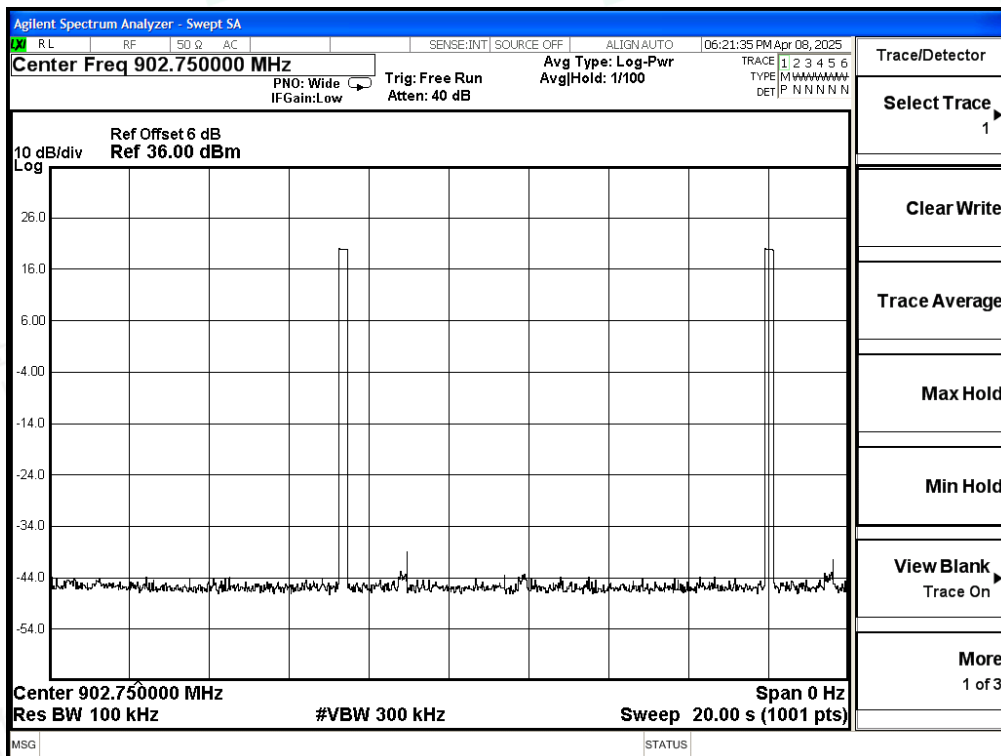


Test Graphs

Ant1_Hop



Ant1_Hop



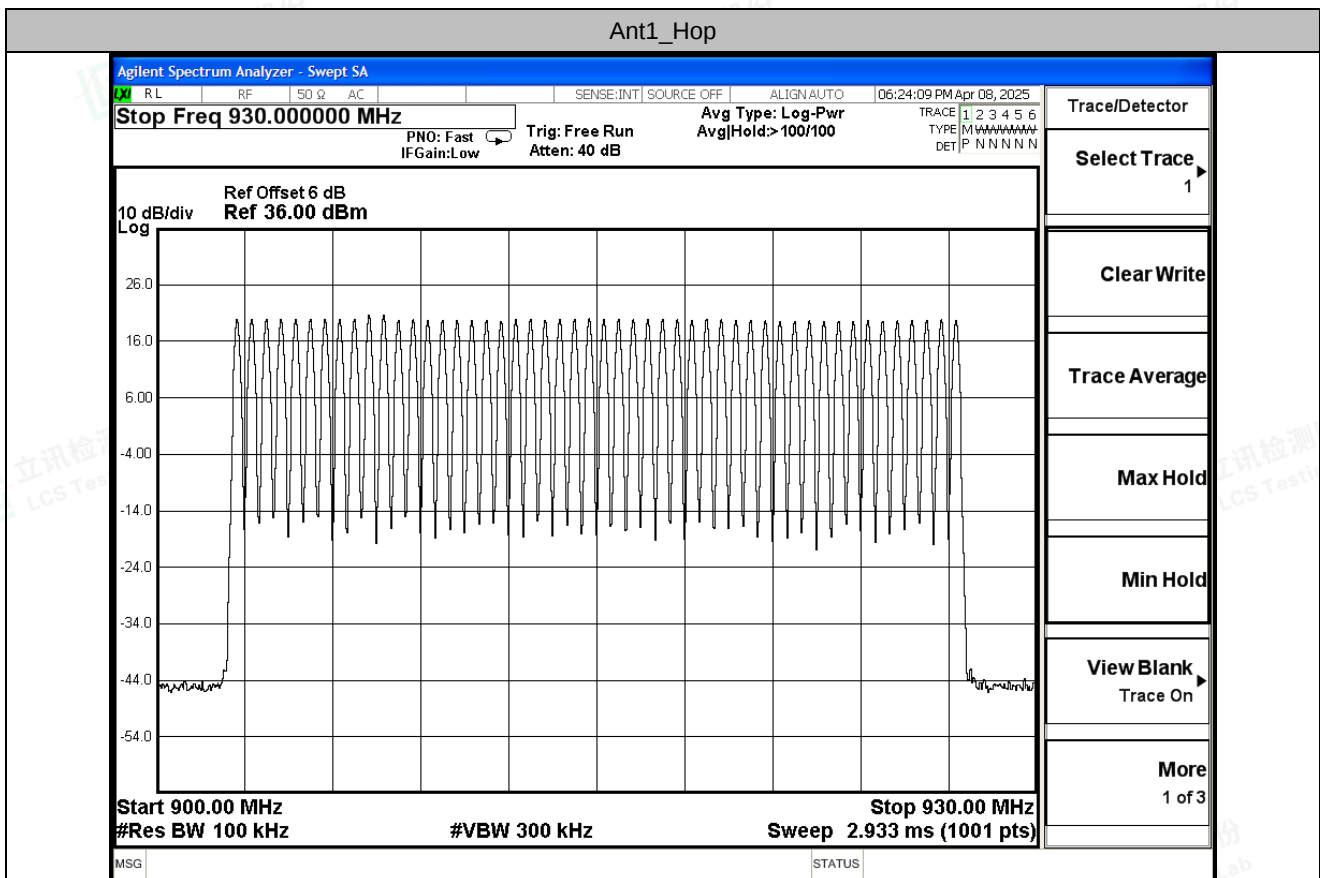


A.5 Number of hopping channels

Test Result

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

Test Graphs



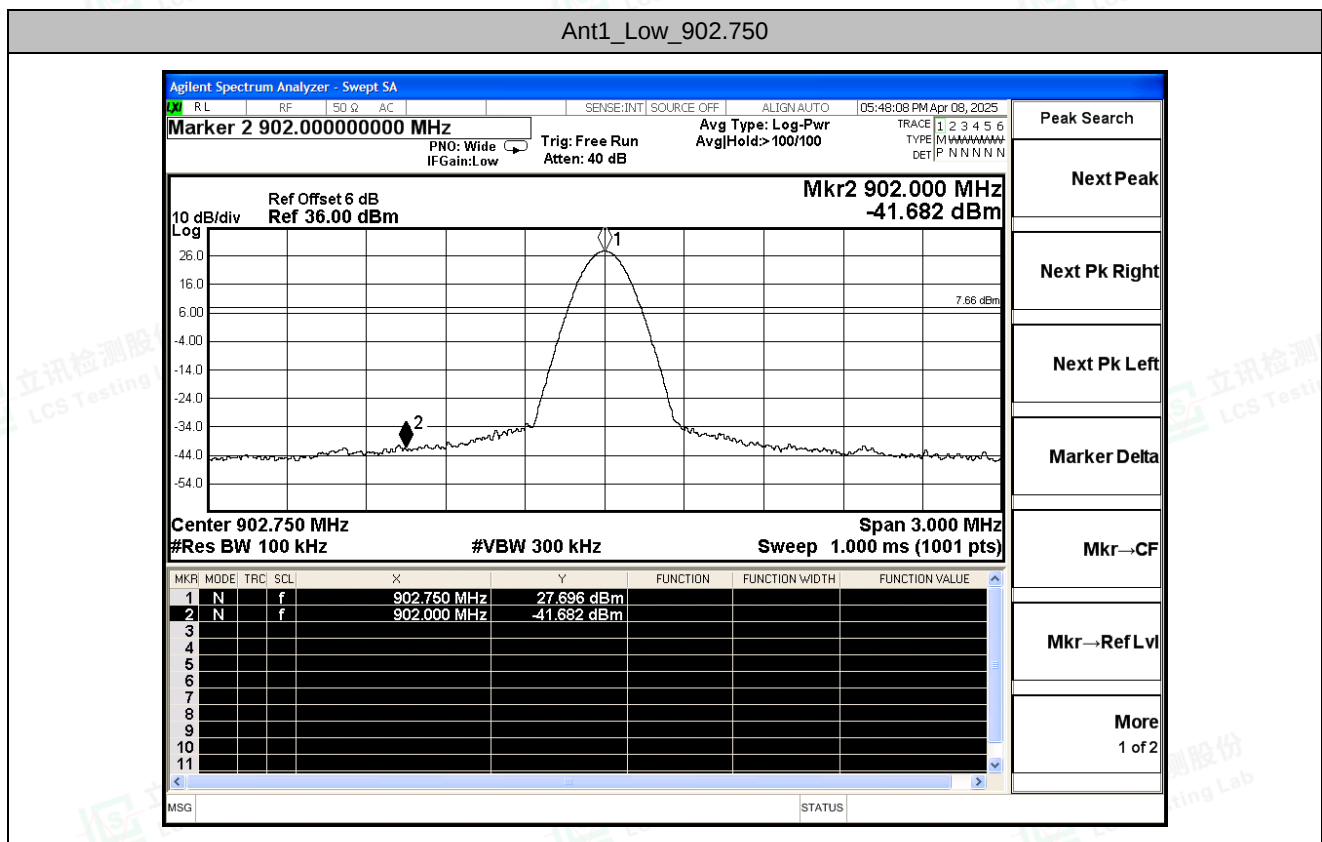


A.6 Band edge measurements

Test Result

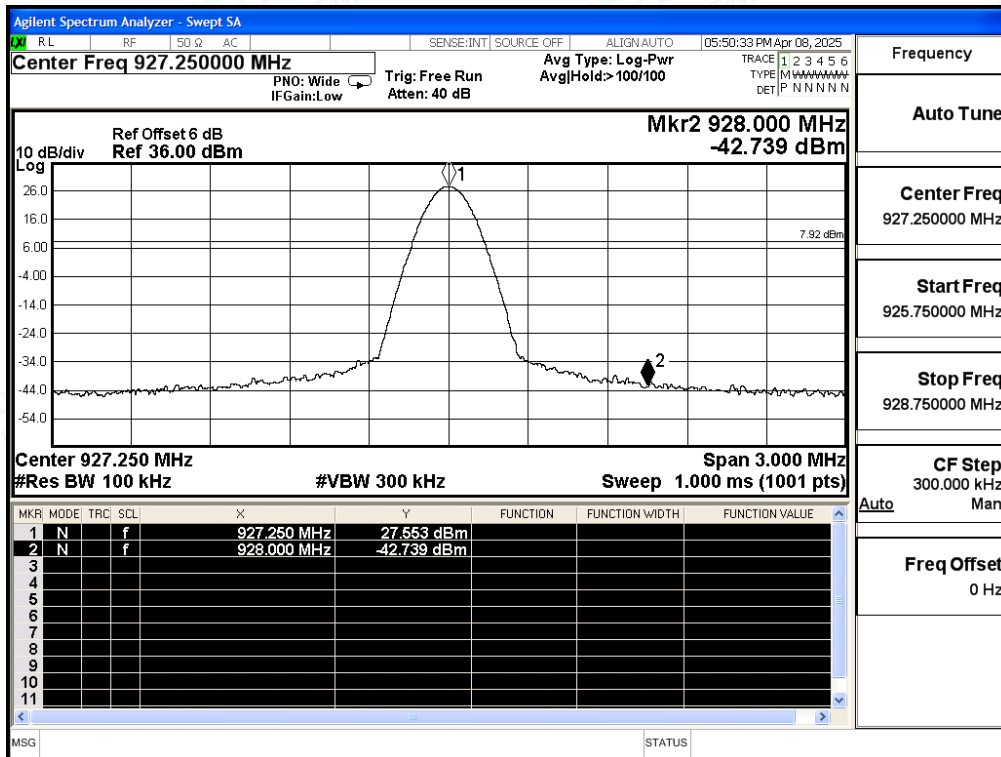
Antenna	Ch Name	Channel[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Ant1	Low	902.750	27.696	-41.682	<=7.66	PASS
	High	927.250	27.553	-42.739	<=7.92	PASS
	Low	Hop_902.750	19.839	-45.896	<=-5.28	PASS
	High	Hop_927.250	19.672	-45.199	<=-5.46	PASS

Test Graphs

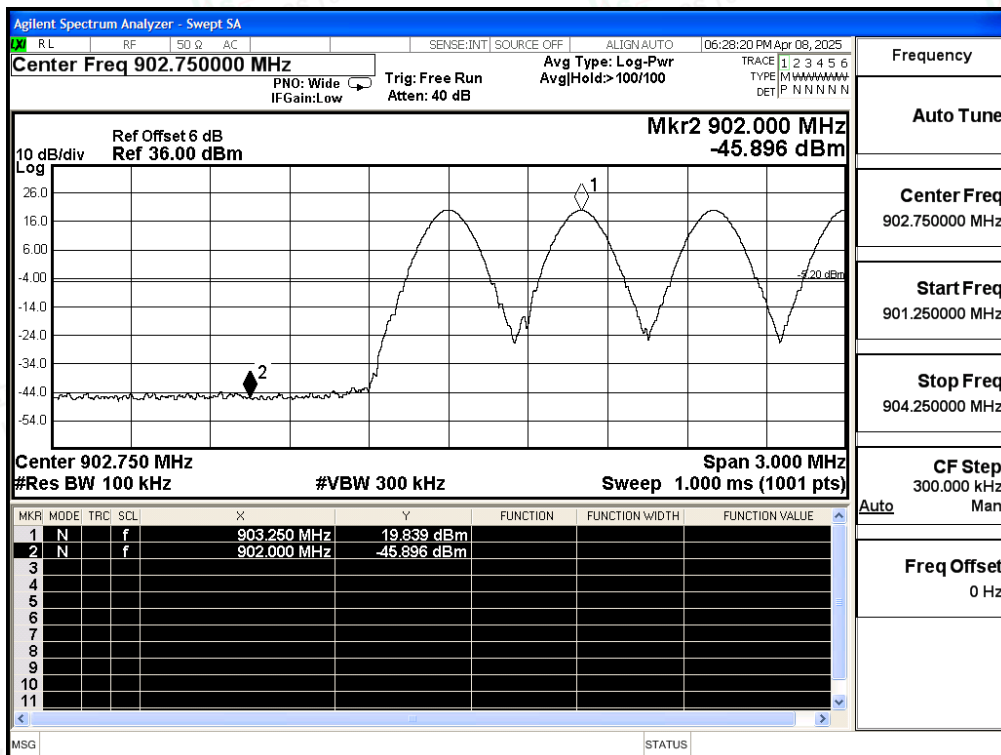




Ant1_High_927.250



Ant1_Low_Hop_902.750



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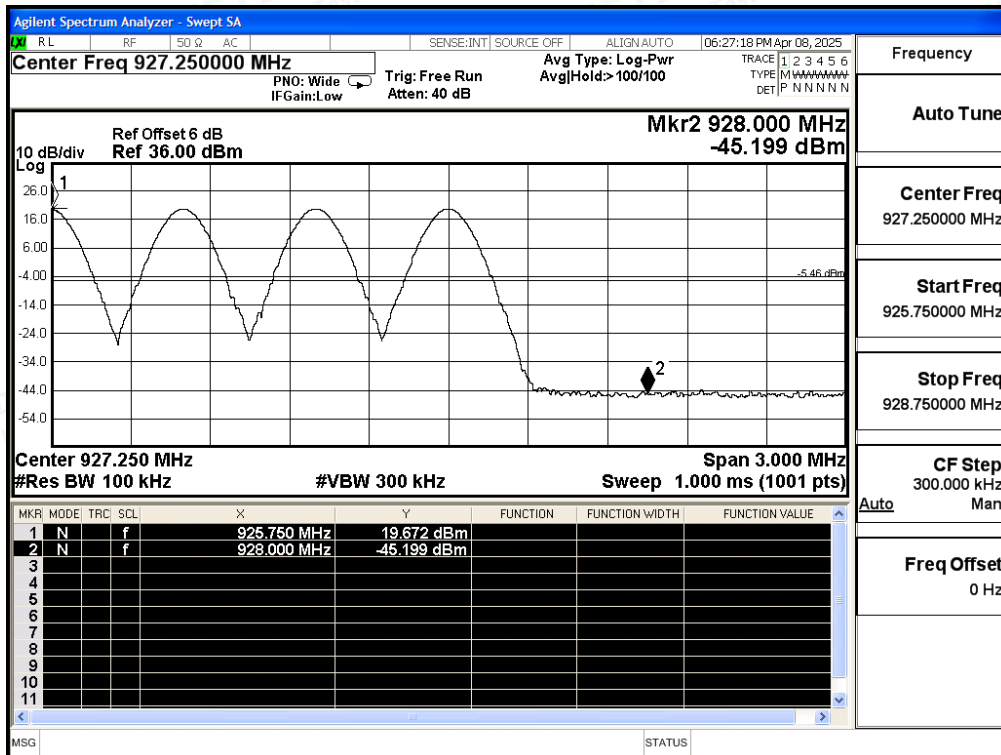
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Ant1_High_Hop_927.250



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A.7 Conducted Spurious Emission

Test Result

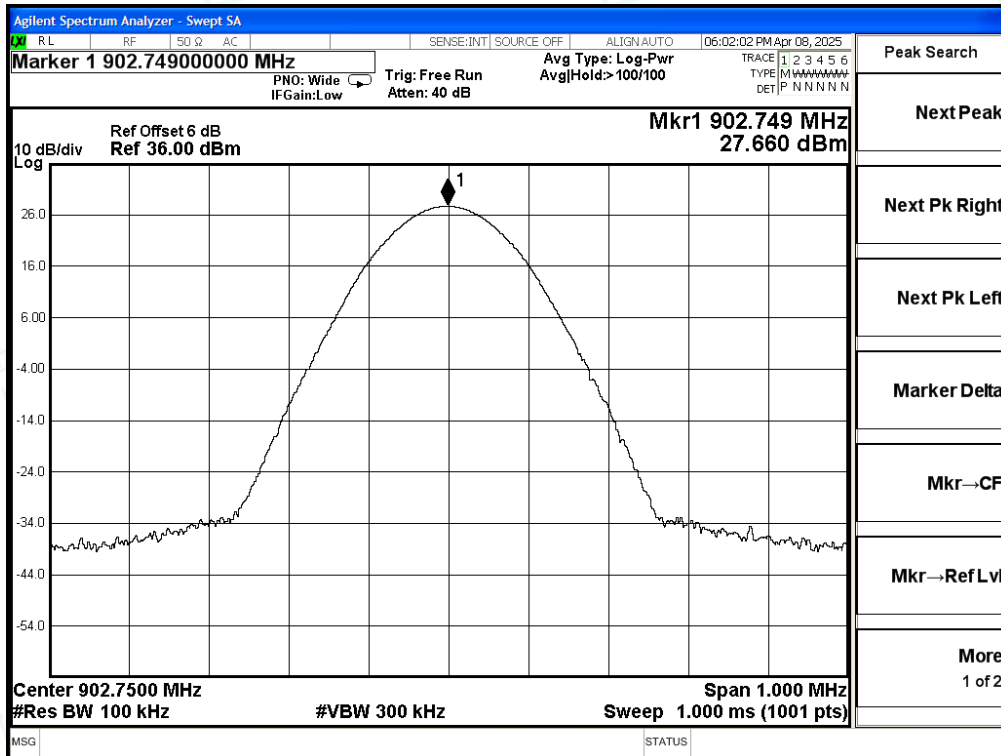
Antenna	Channel[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
Ant1	902.750	Reference	27.660	27.660	---	PASS
		30~26500	27.660	-31.961	≤ 7.66	PASS
	914.750	Reference	27.386	27.386	---	PASS
		30~26500	27.386	-31.829	≤ 7.39	PASS
	927.250	Reference	27.529	27.529	---	PASS
		30~26500	27.529	-30.644	≤ 7.53	PASS



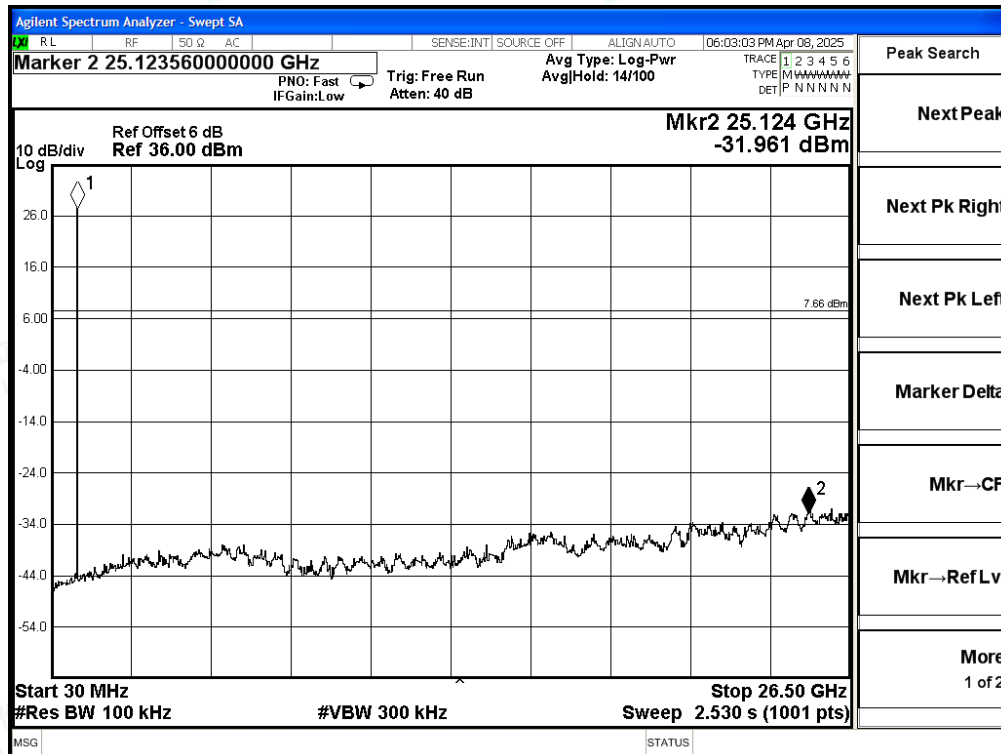


Test Graphs

Ant1_902.750_0-Reference

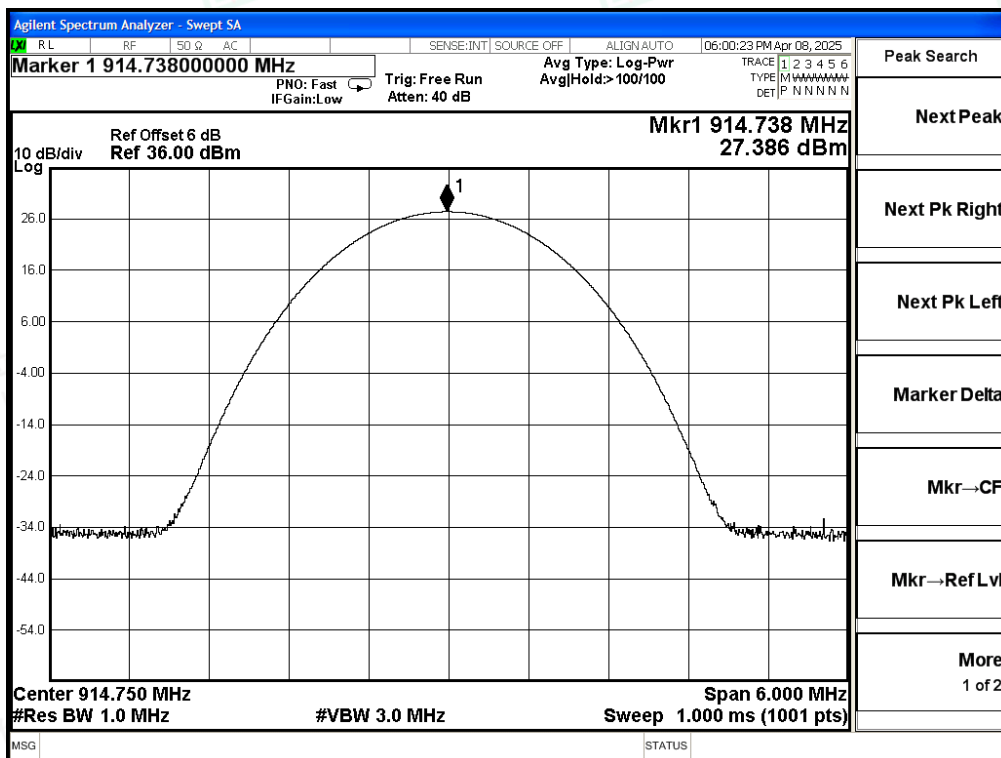


Ant1_902.750_30-26500

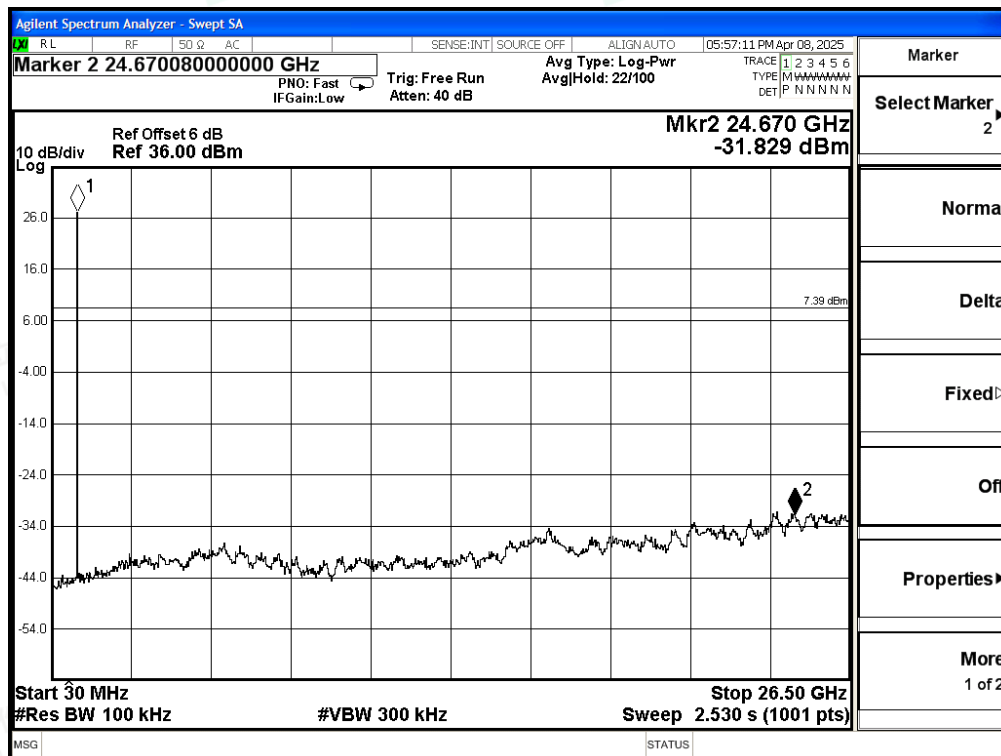




Ant1_914.750_0-Reference



Ant1_914.750_30-26500



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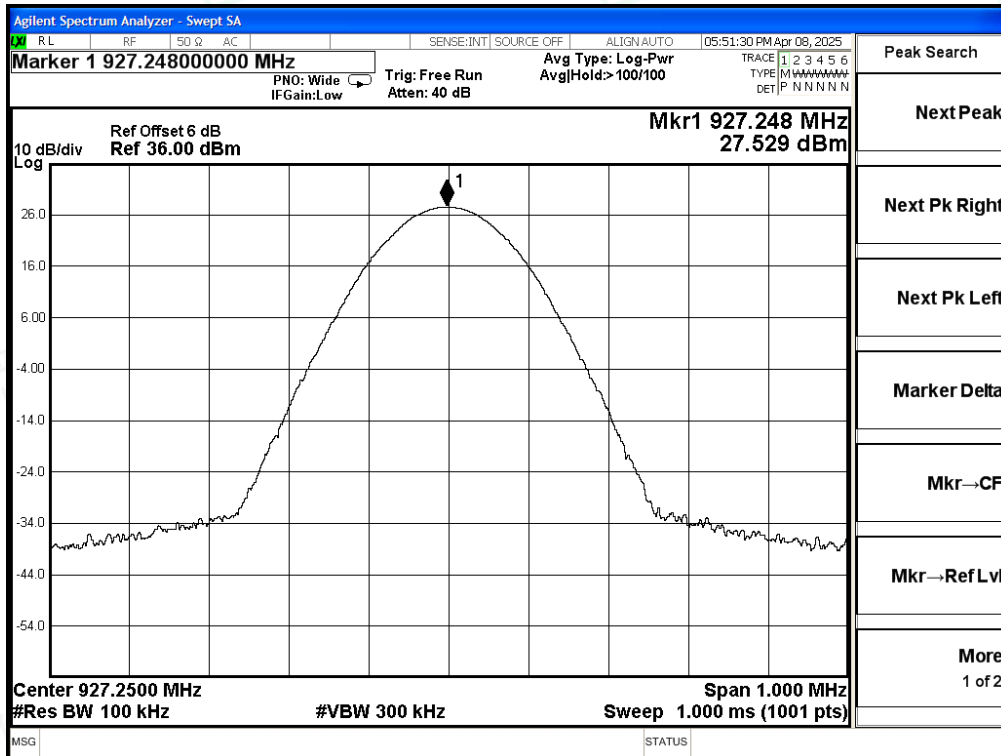
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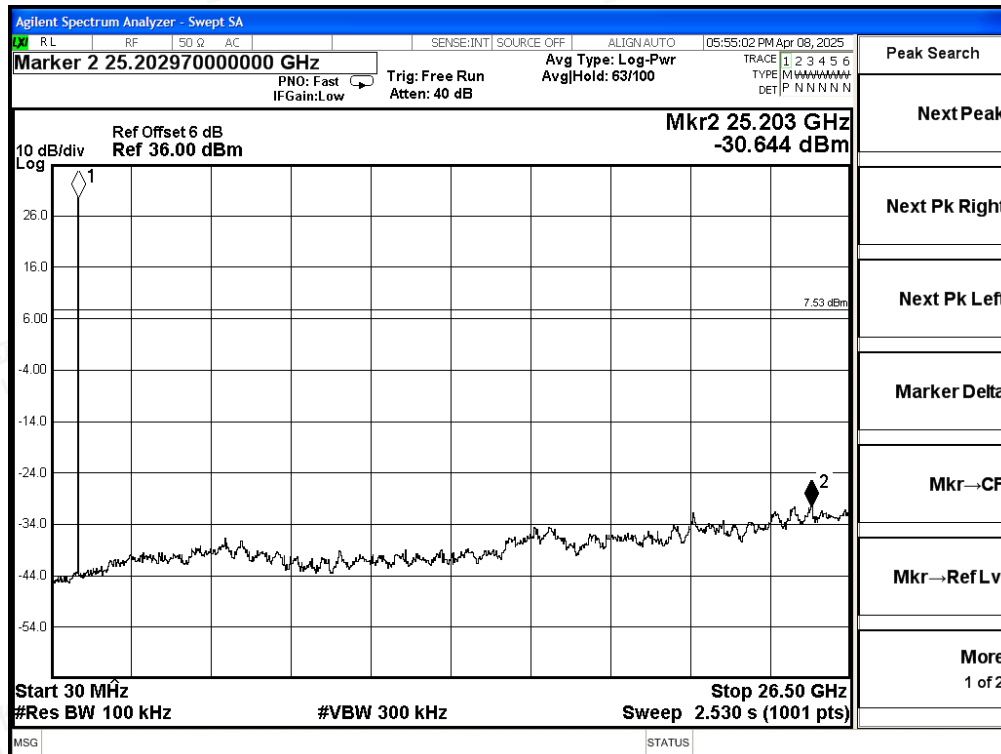
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Ant1_927.250_0~Reference



Ant1_927.250_30~26500



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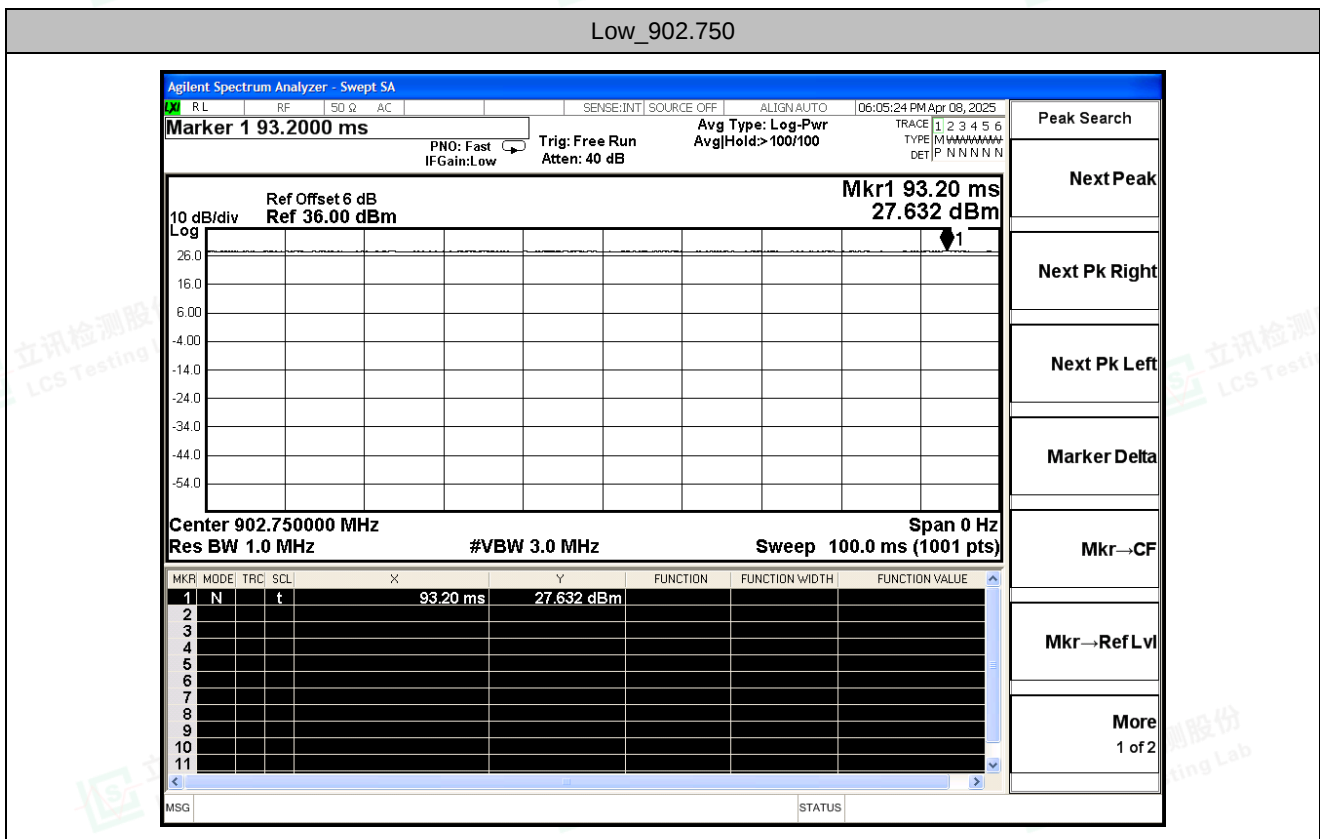


A.8 Duty Cycle

Test Result

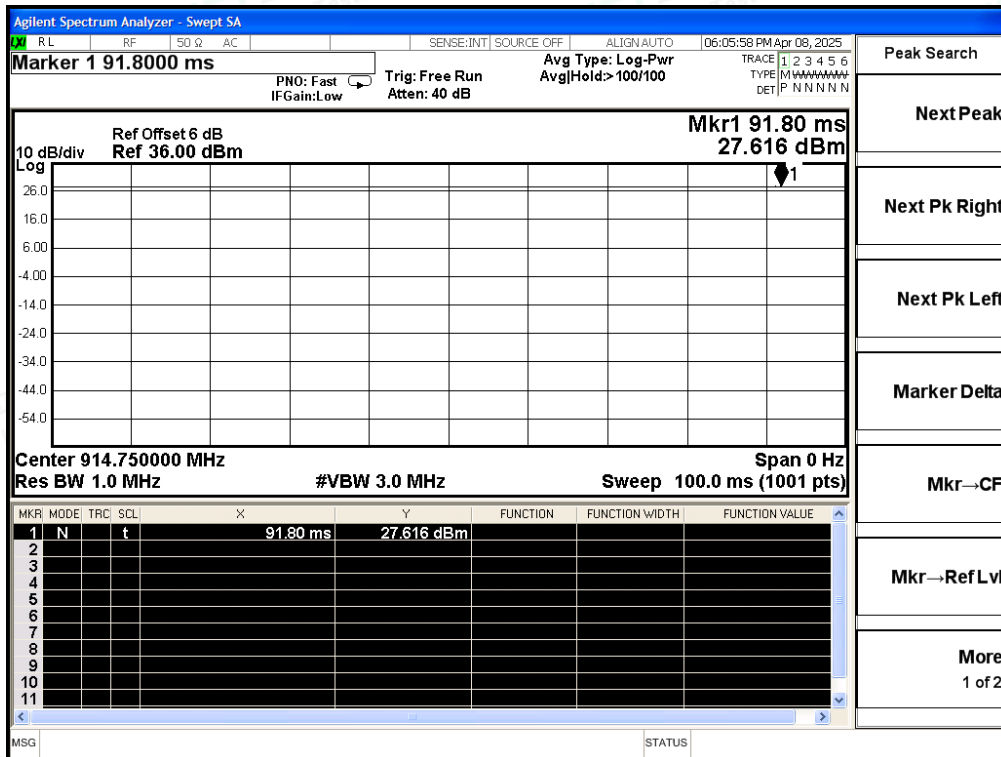
Antenna	Channel[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
Ant1	902.750	100.0	0	100	---	PASS
	914.750	100.0	0	100	---	PASS
	927.250	100.0	0	100	---	PASS

Test Graphs

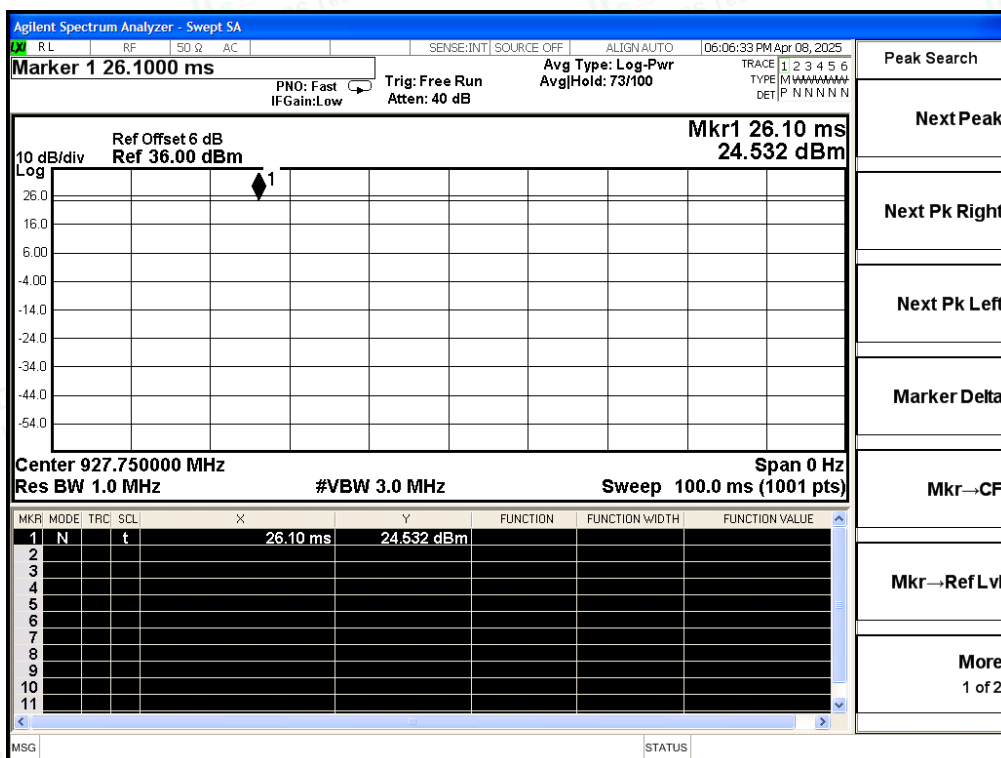




Ant1_914.750



Ant1_927.250



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