



Appendix A

RF Test Data for 900MHz (Conducted Measurement)

Product Name: Dual Input /Output Wireless Bus Expander Two Garage Door Controller

Test Model: ZP2M

Environmental Conditions

Temperature:	23.7°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Billy Yu
Supervised by:	Paddi Chen



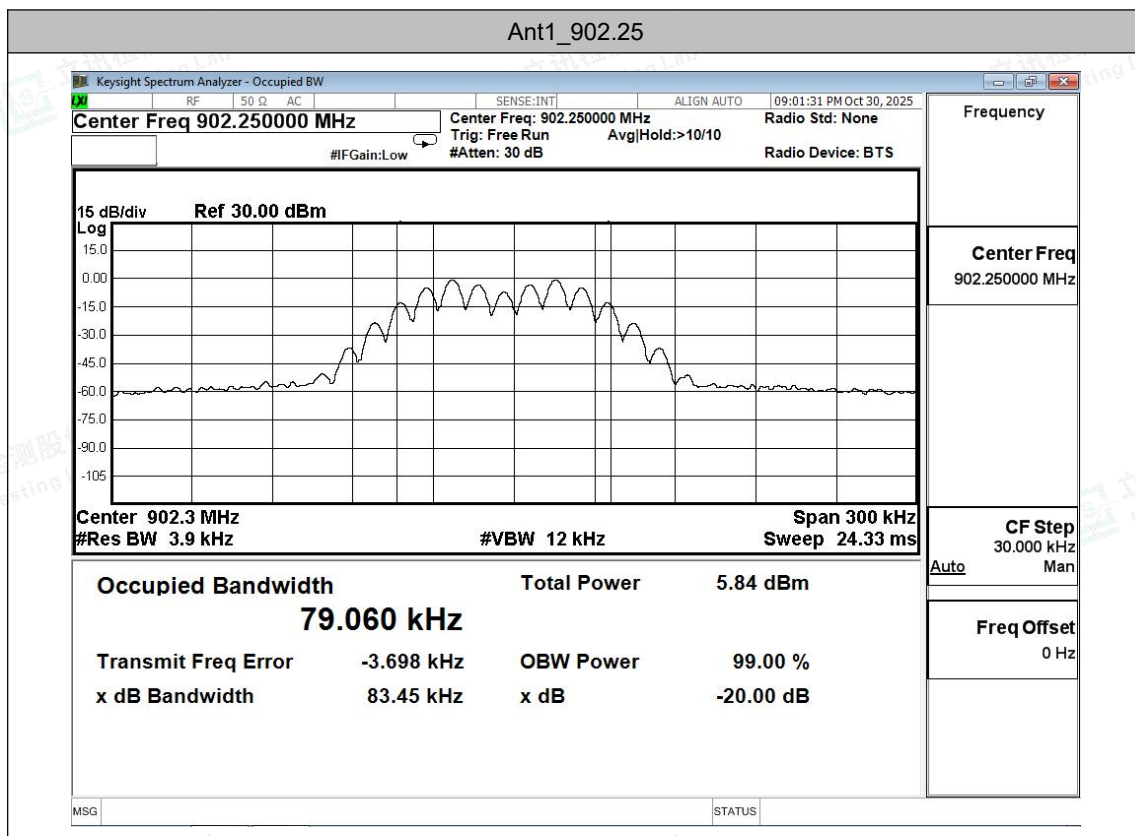


A.1 20dB Emission Bandwidth

Test Result

Antenna	Channel[MHz]	20db EBW[kHz]	Limit[MHz]	Verdict
Ant1	902.25	83.45	---	PASS
	914.85	83.52	---	PASS
	927.55	83.54	---	PASS

Test Graphs



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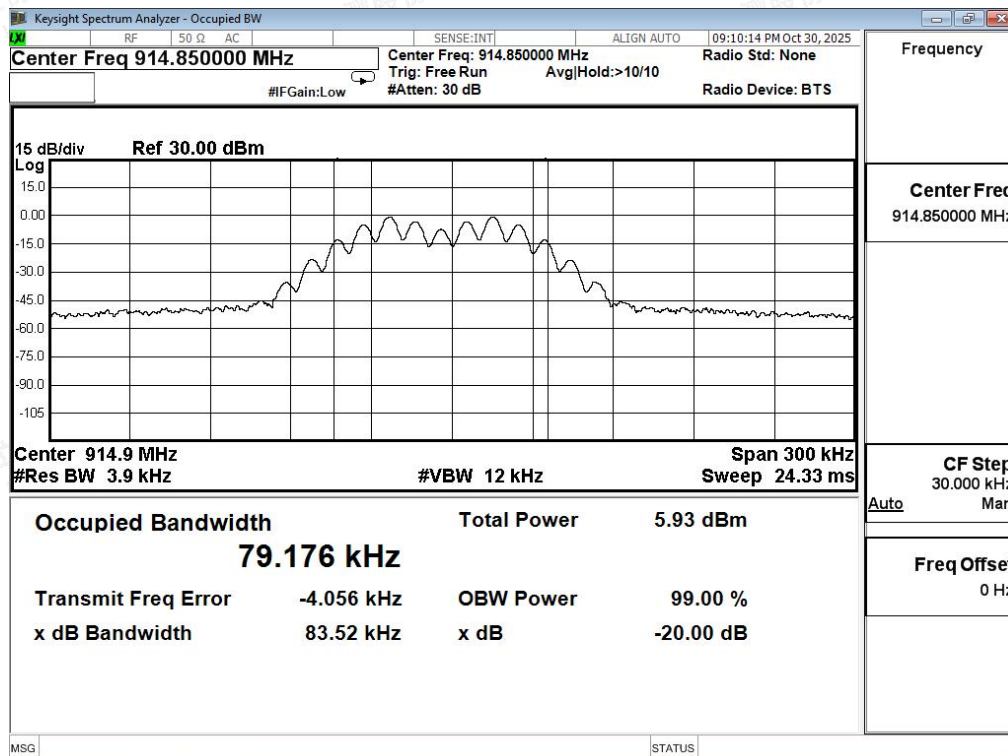
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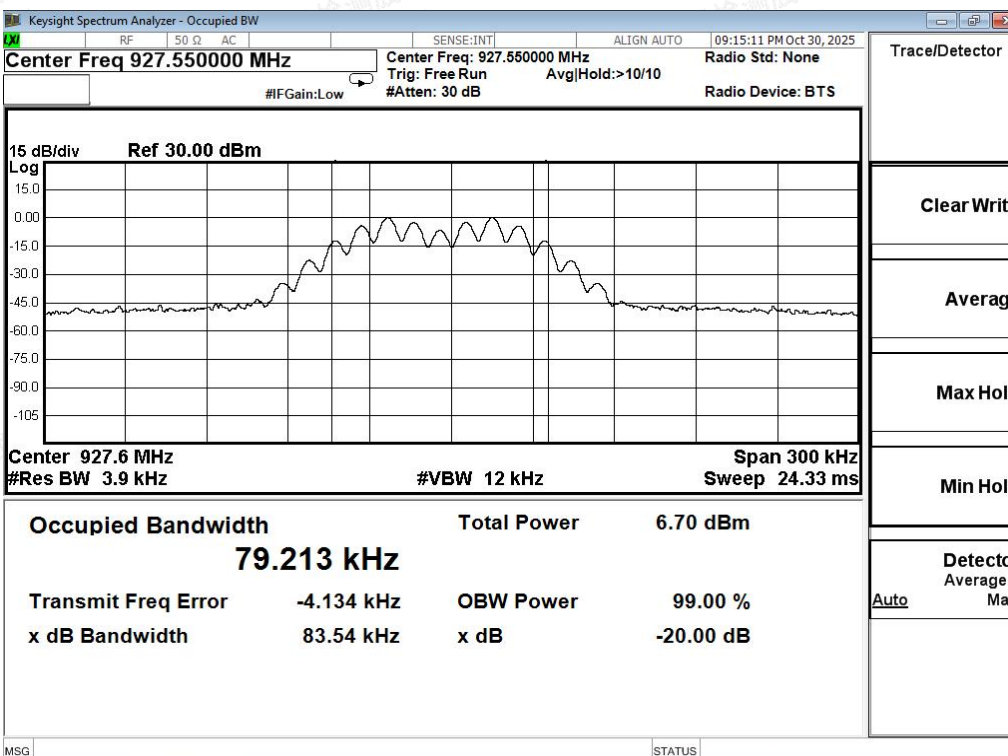
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Ant1_914.85



Ant1_927.55



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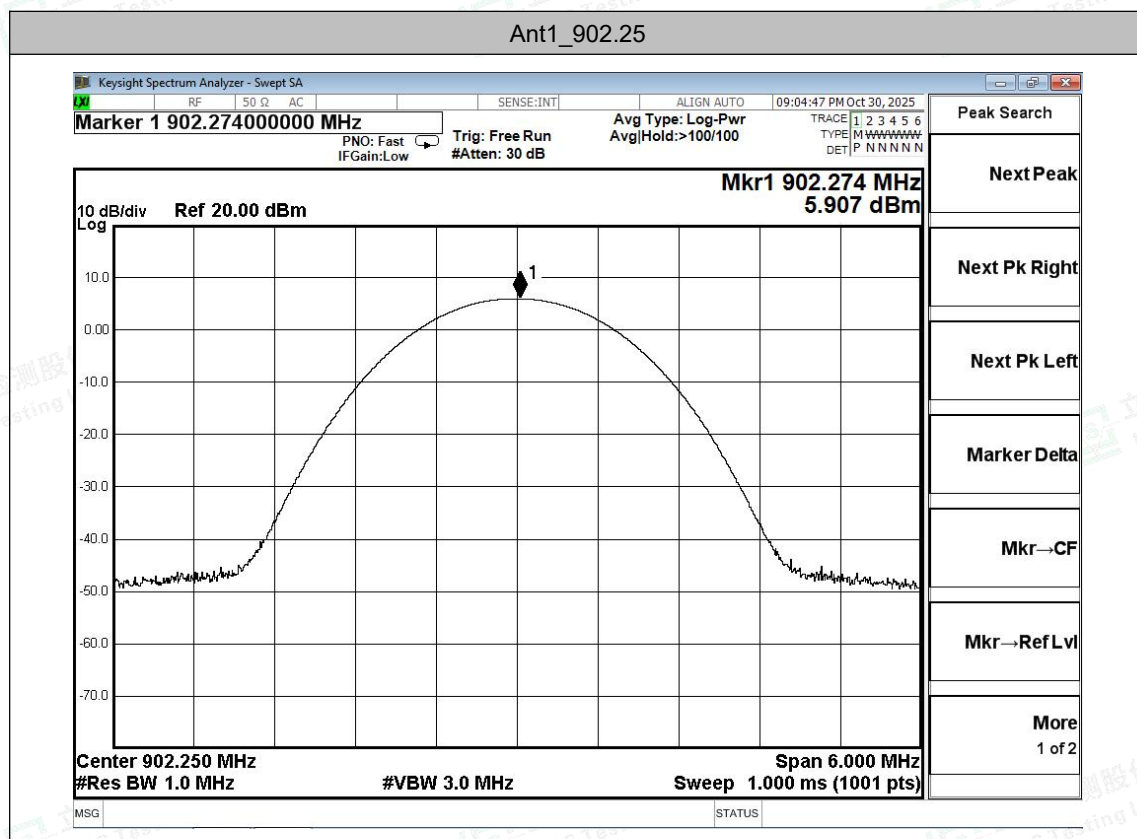


A.2 Maximum Peak Conducted Output Power

Test Result Peak

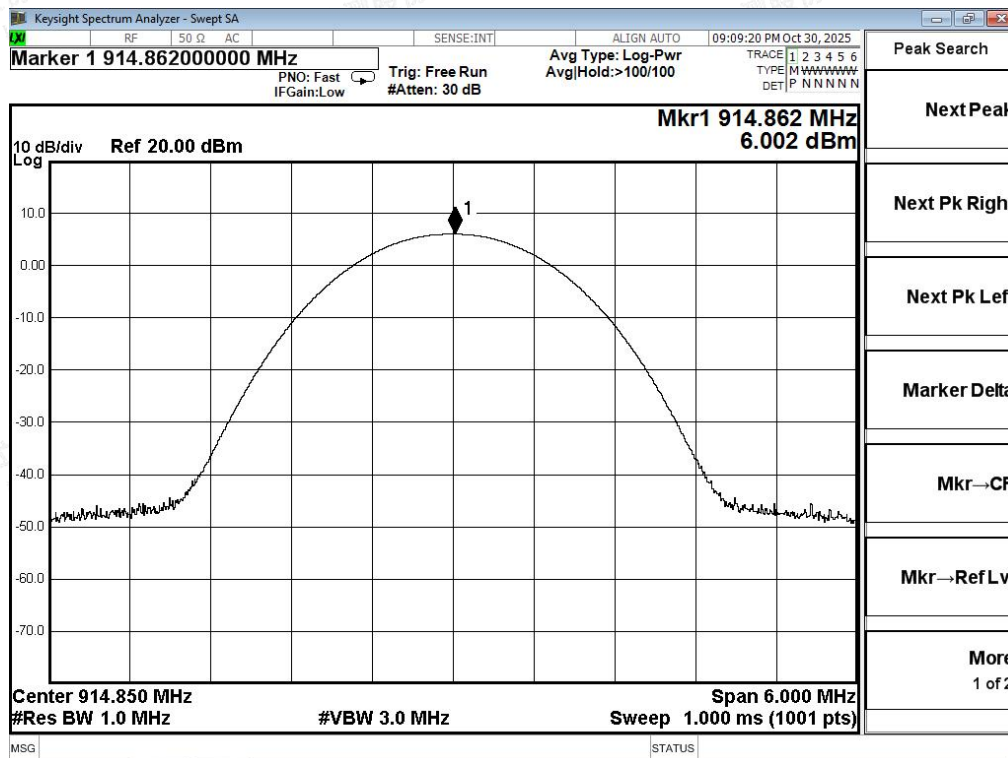
Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Ant1	902.25	5.907	≤30	PASS
	914.85	6.002	≤30	PASS
	927.55	6.520	≤30	PASS

Test Graphs

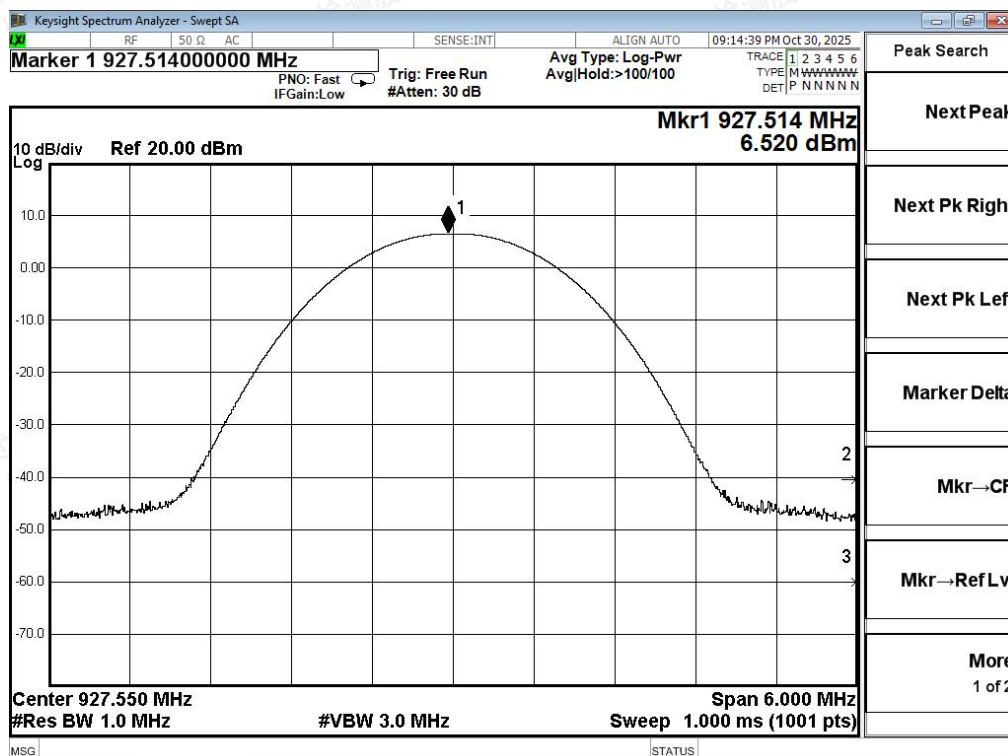




Ant1_914.85



Ant1_927.55



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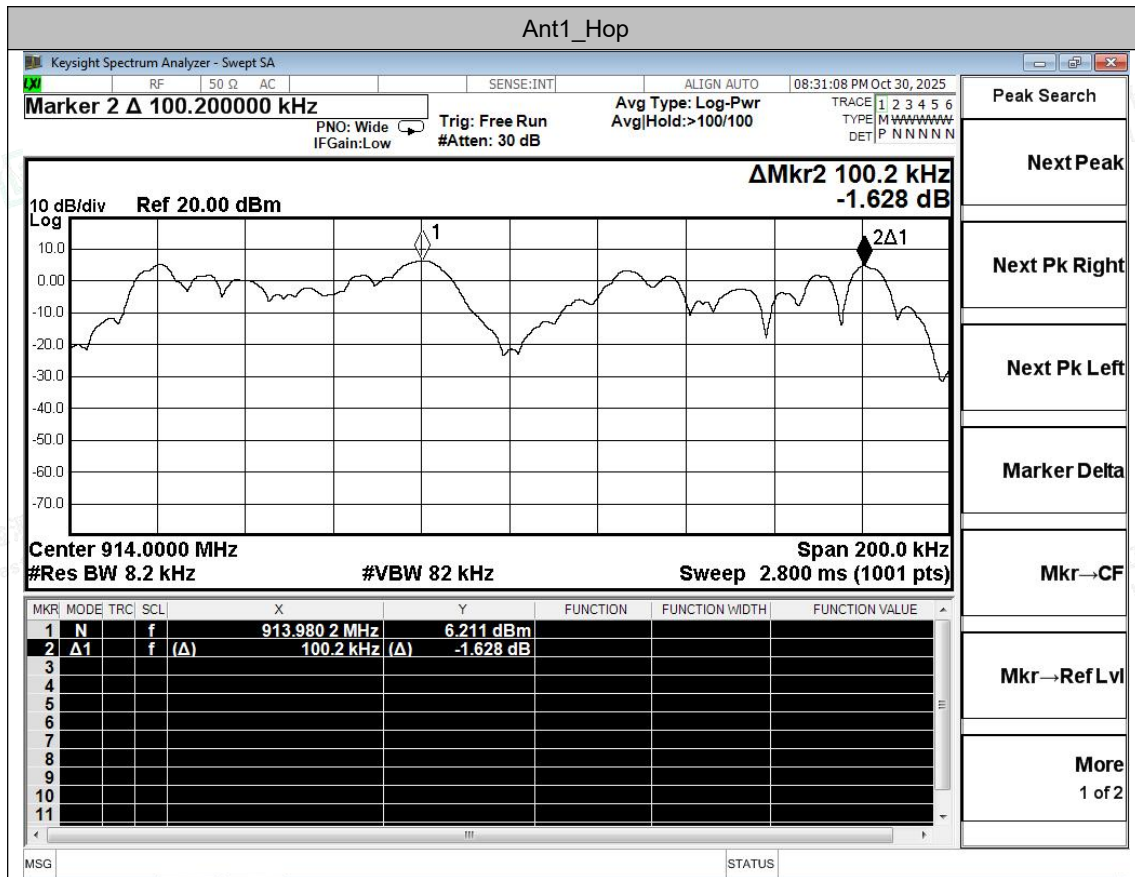


A.3 Carrier frequency separation

Test Result

Antenna	Channel[MHz]	Result[kHz]	Limit[kHz]	Verdict
Ant1	Hop	100.2	83.61	PASS

Test Graphs



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A.4 Time of occupancy

Test Result

Antenna	Channel[MHz]	Burst Width[ms]	Total Hops[Num]	Result[ms]	Limit[ms]	Verdict
Ant1	Hop	21.65	3	64.95	<=400	PASS



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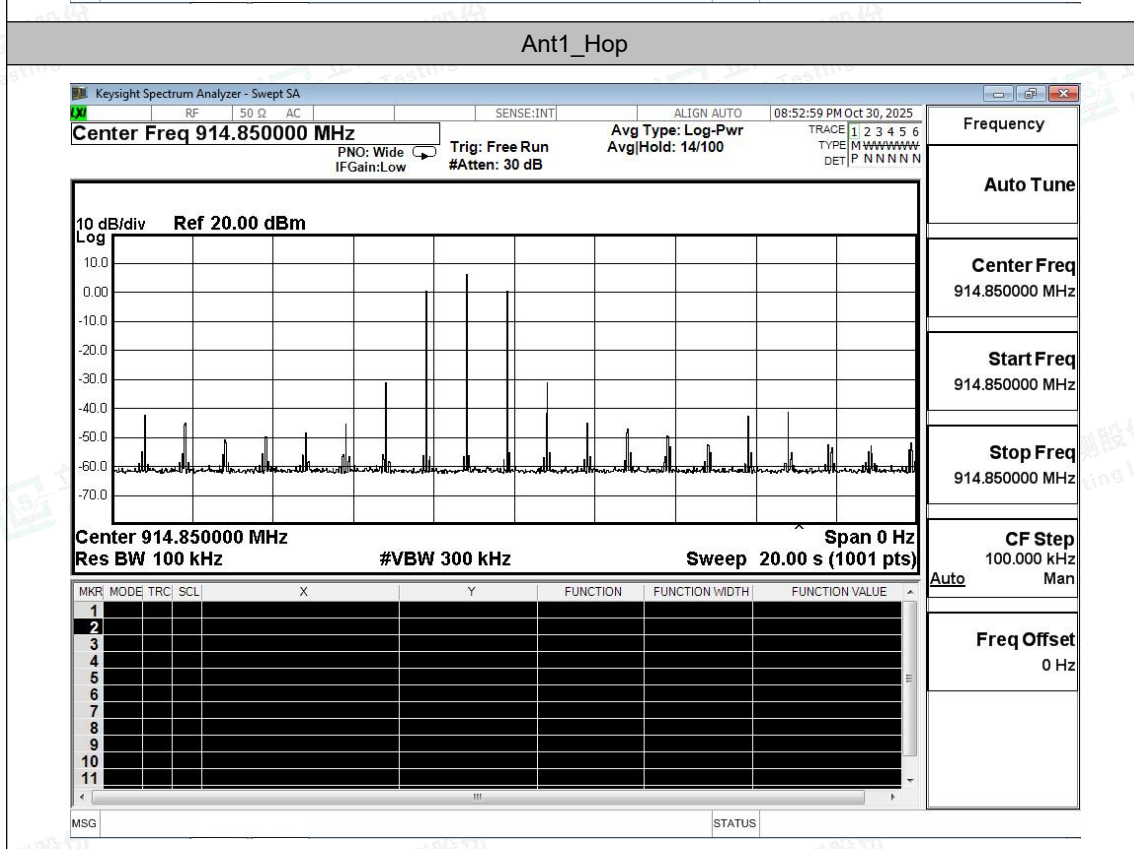
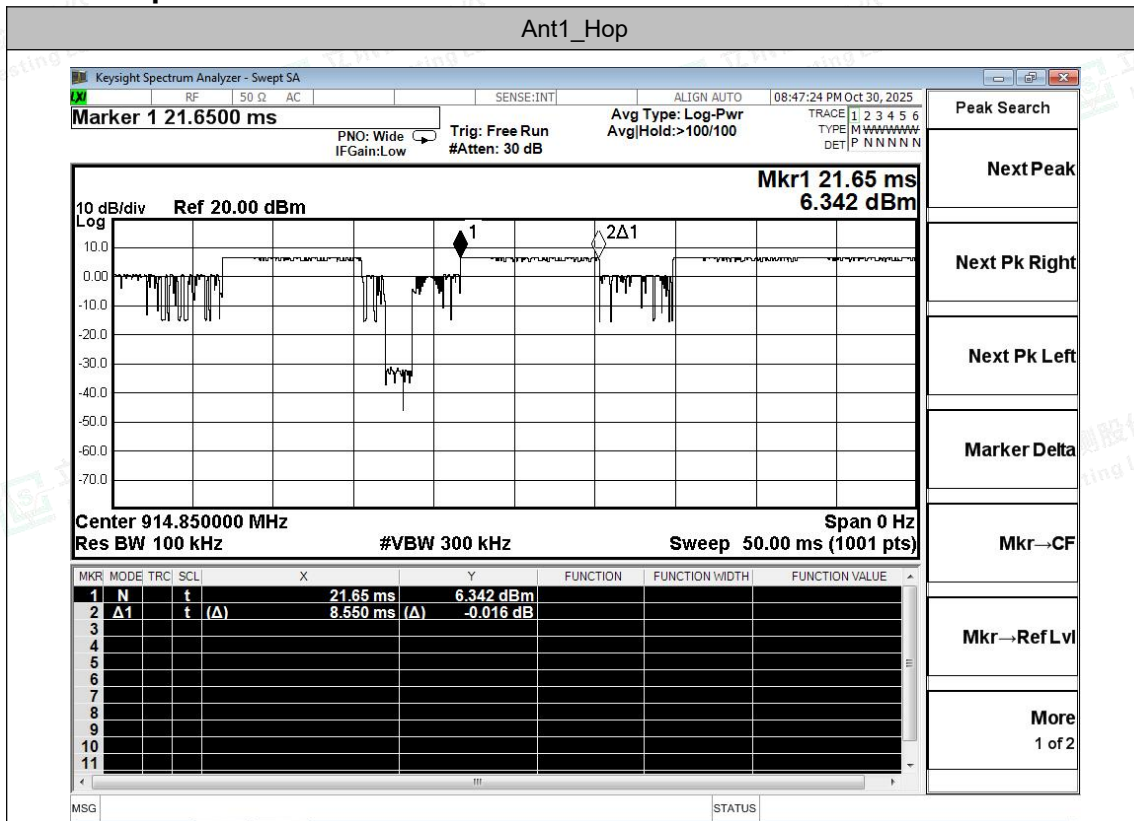
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Test Graphs



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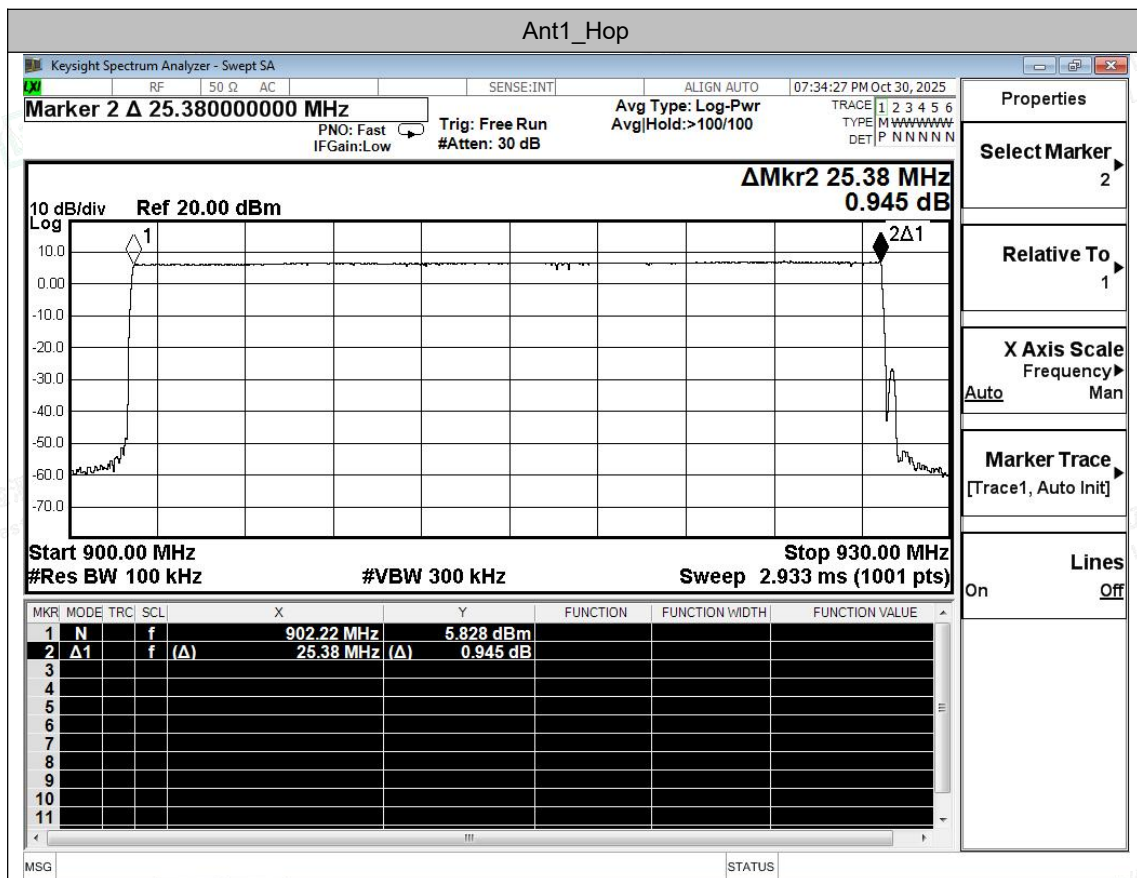


A.5 Number of hopping channels

Test Result

Antenna	Channel	Result[Num]	Limit[Num]	Verdict
Ant1	Hop	253	>=50	PASS

Test Graphs



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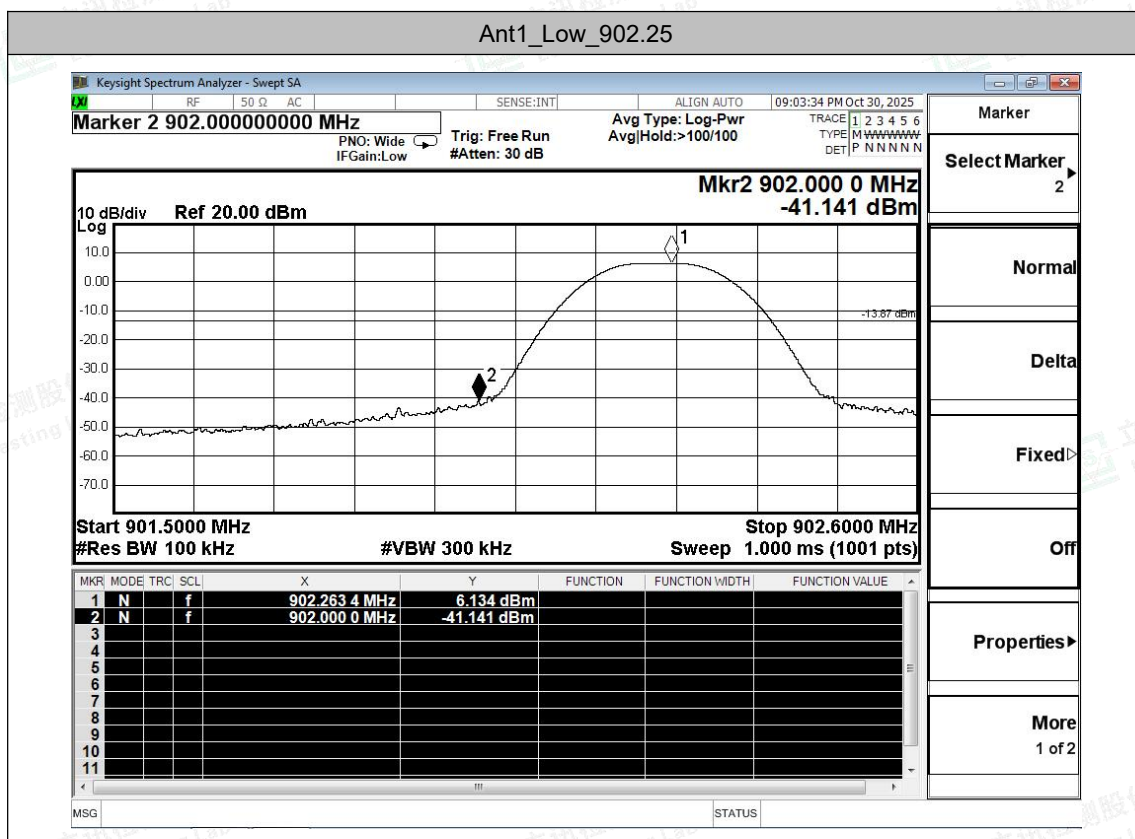


A.6 Band edge measurements

Test Result

Antenna	Ch Name	Channel[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Ant1	Low	902.25	6.134	-41.141	<=-13.87	PASS
	High	927.55	6.390	-28.200	<=-13.61	PASS
	Low	902.25	5.939	-48.726	<=-14.07	PASS
	High	927.55	6.530	-26.714	<=-13.47	PASS

Test Graphs



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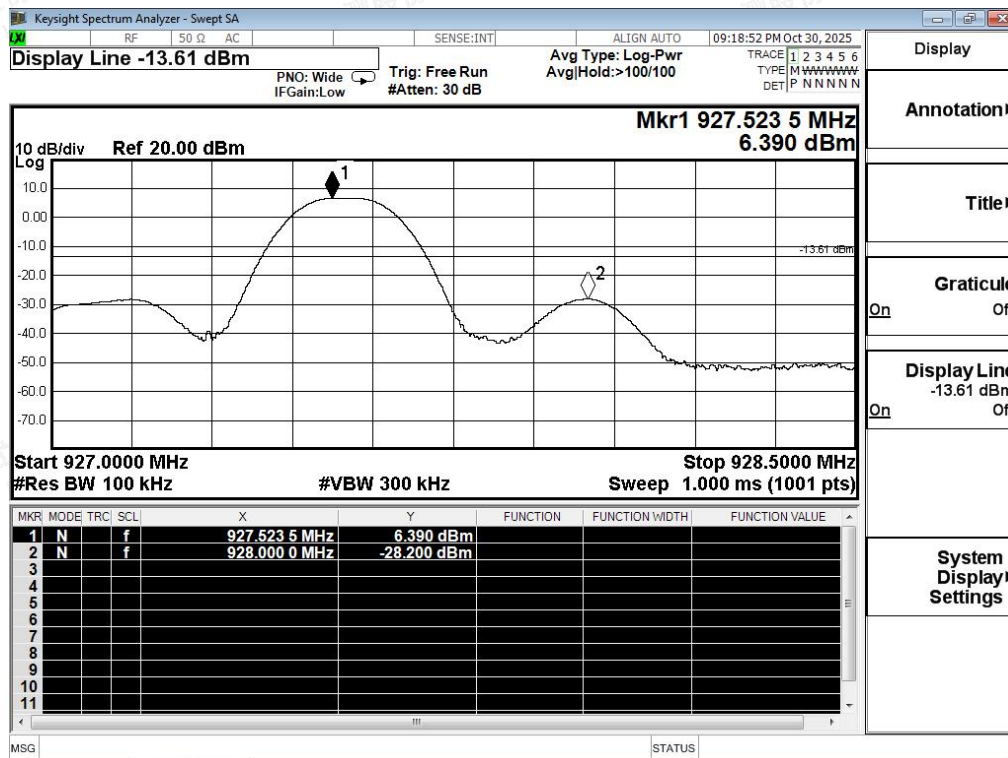
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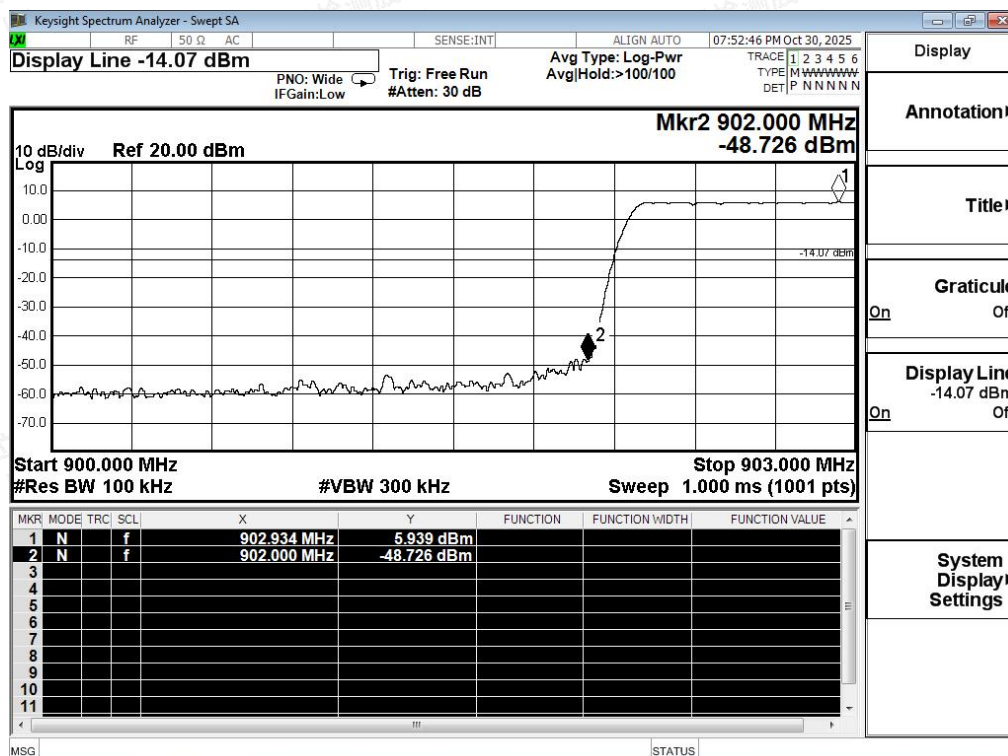
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Ant1_High_927.55



Ant1_Low_Hop_902.25

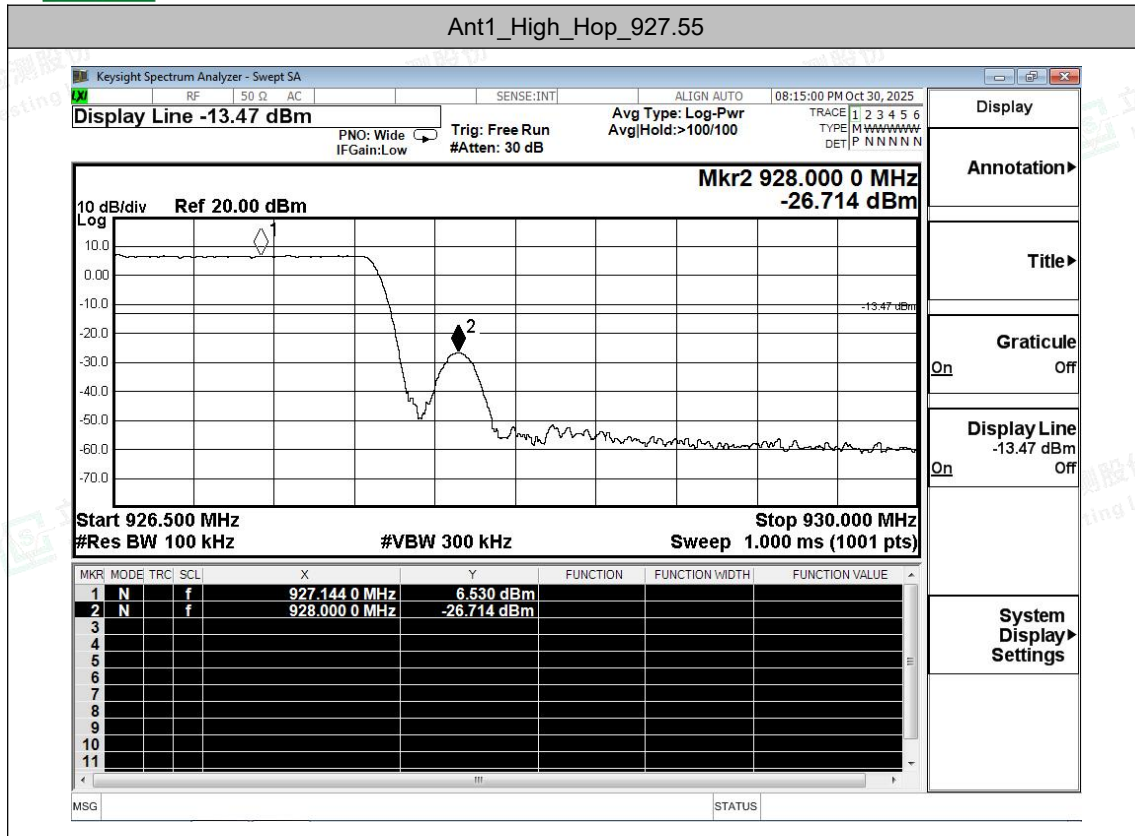


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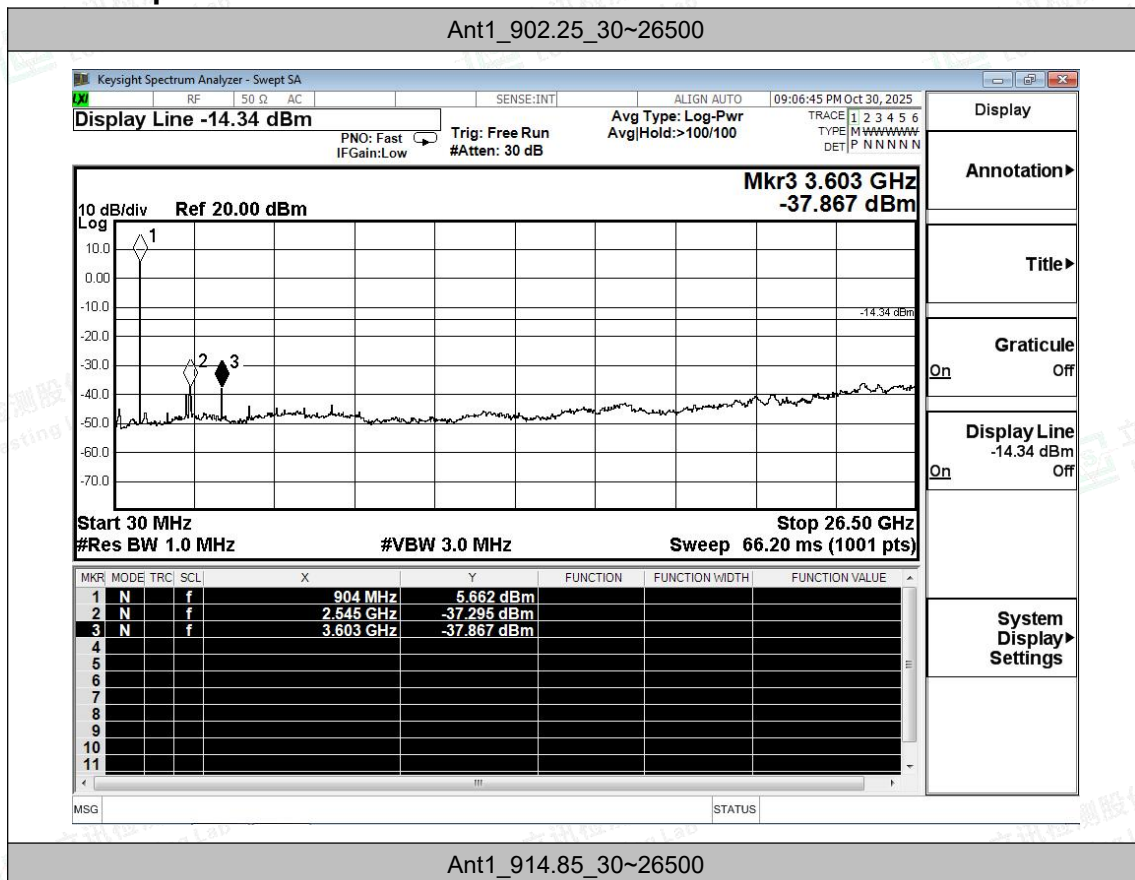


A.7 Conducted Spurious Emission

Test Result

Antenna	Channel[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
Ant1	902.25	30~26500	5.662	-37.295	<=-14.34	PASS
	914.85	30~26500	6.100	-39.848	<=-13.90	PASS
	927.55	30~26500	6.343	-39.602	<=-13.66	PASS

Test Graphs

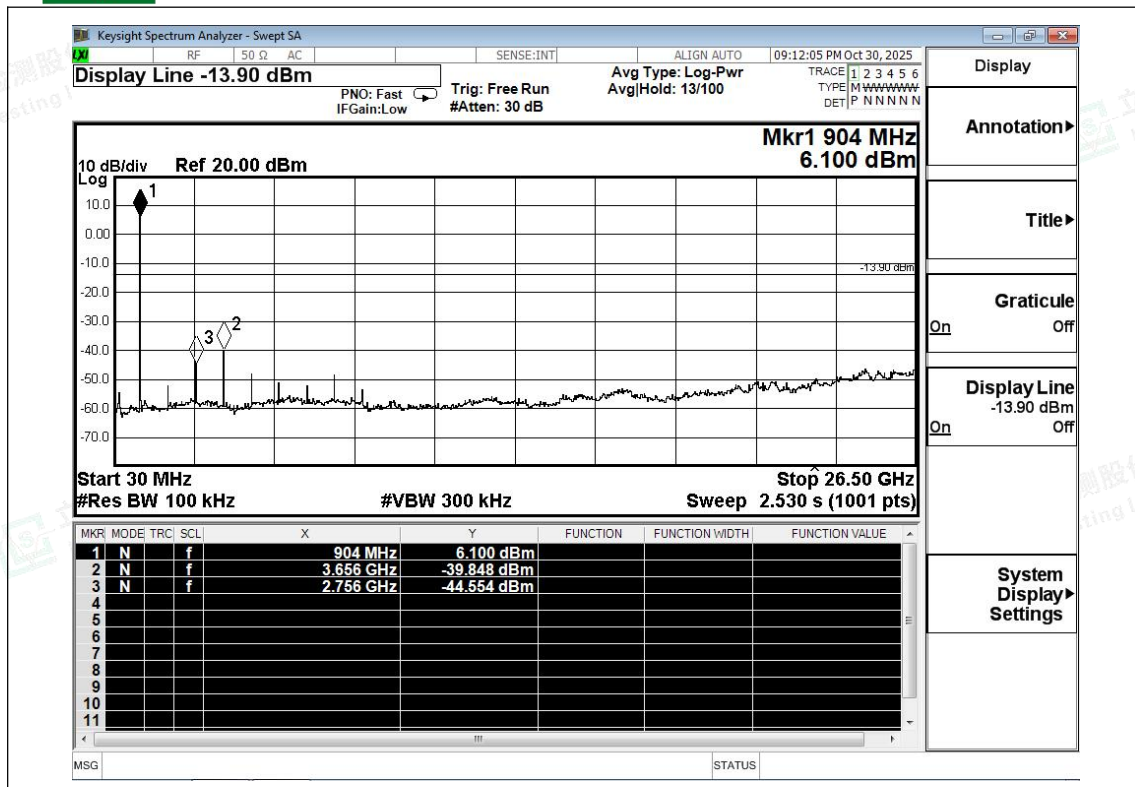


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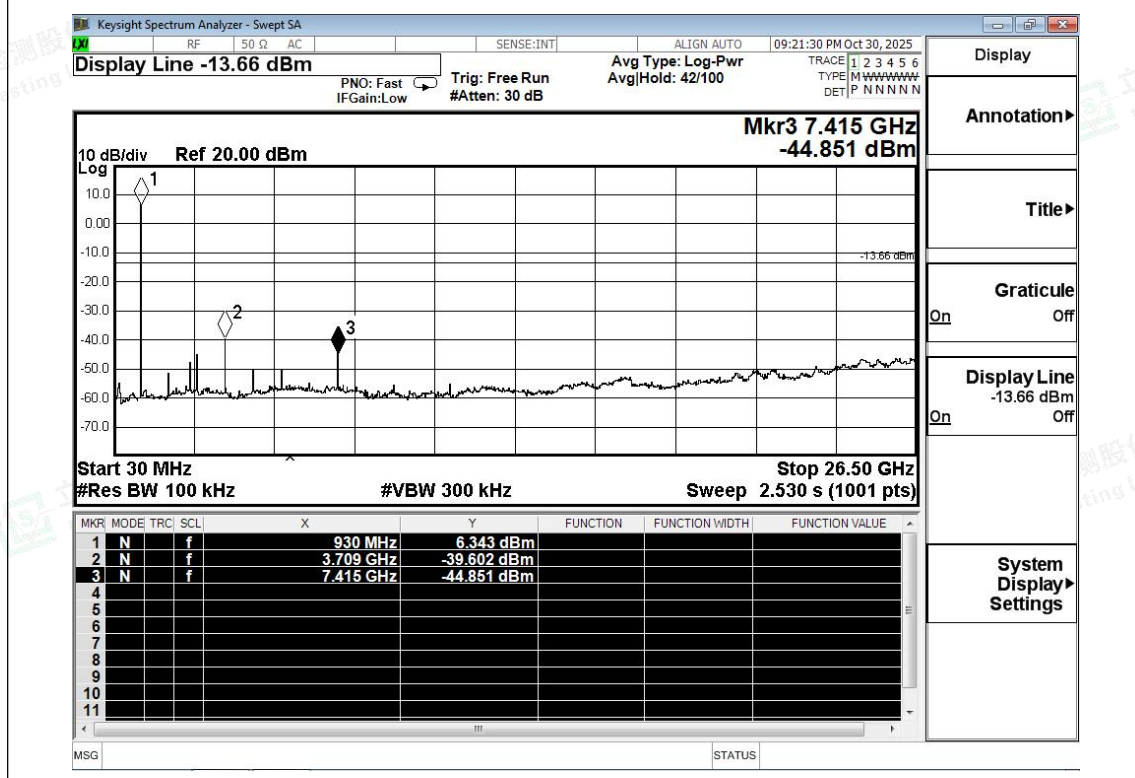
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Ant1_927.55_30~26500



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