



Appendix A

RF Test Data for 900MHz (Conducted Measurement)

Product Name: Indoor Miniature Motion Detector

Test Model: PMD5M

Environmental Conditions

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



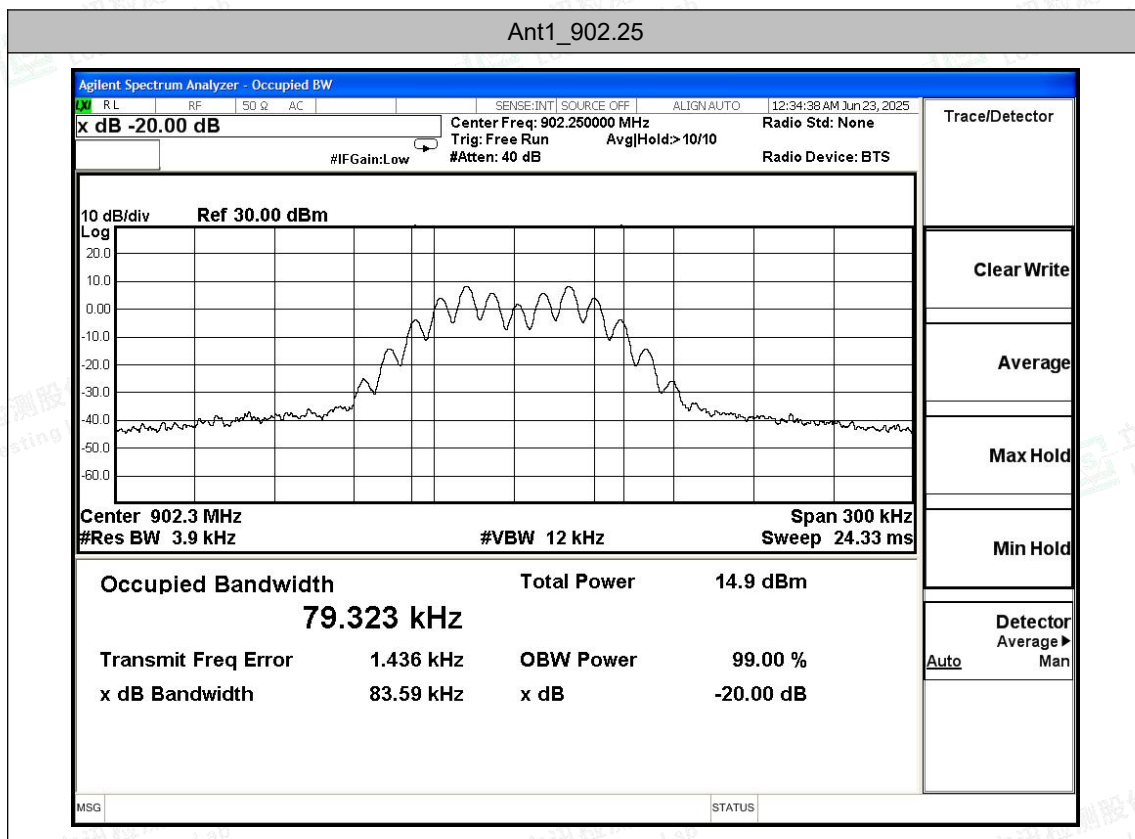


A.1 20dB Emission Bandwidth

Test Result

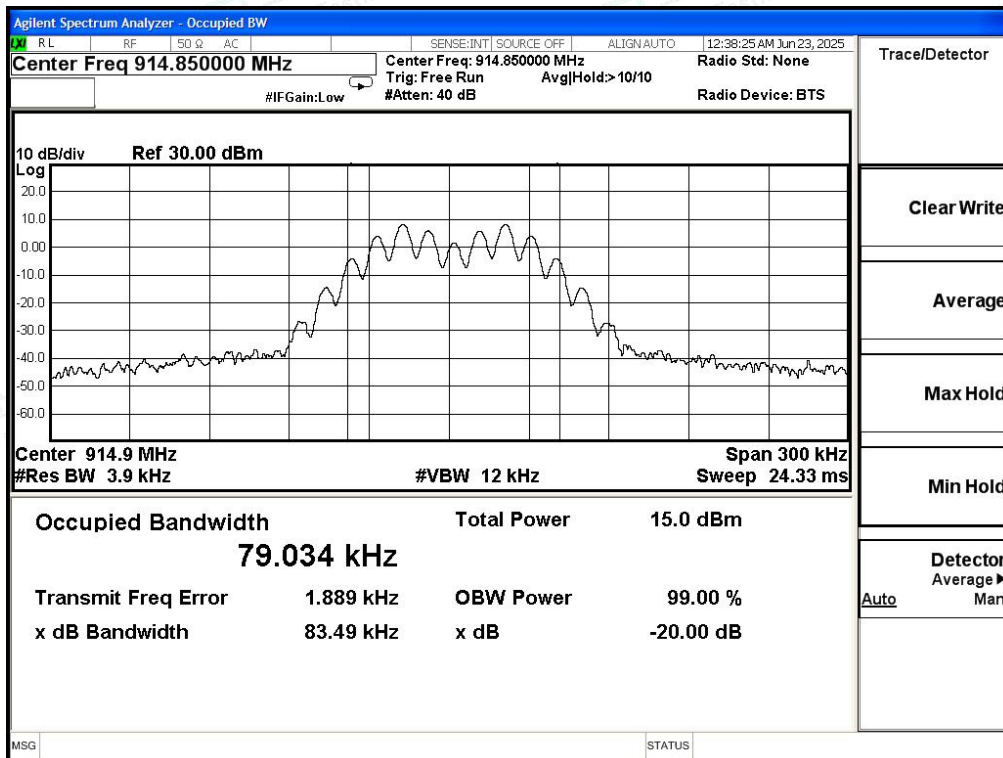
Antenna	Channel[MHz]	20db EBW[kHz]	Limit[MHz]	Verdict
Ant1	902.25	83.59	---	PASS
	914.85	83.49	---	PASS
	927.55	83.52	---	PASS

Test Graphs

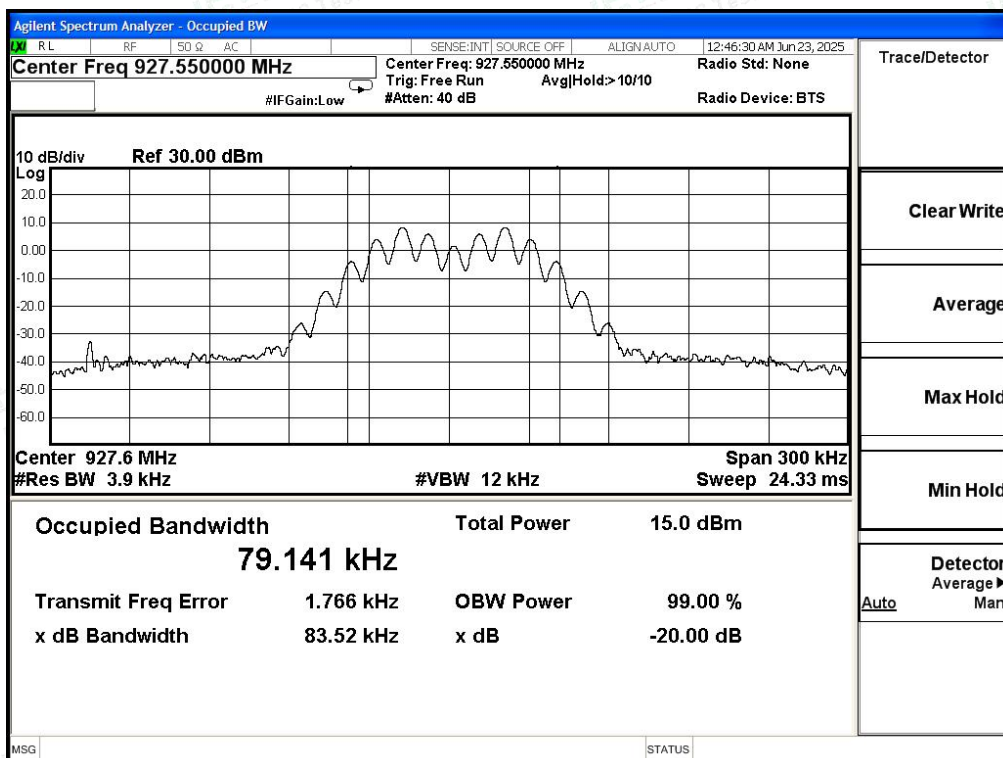




Ant1_914.85



Ant1_927.55



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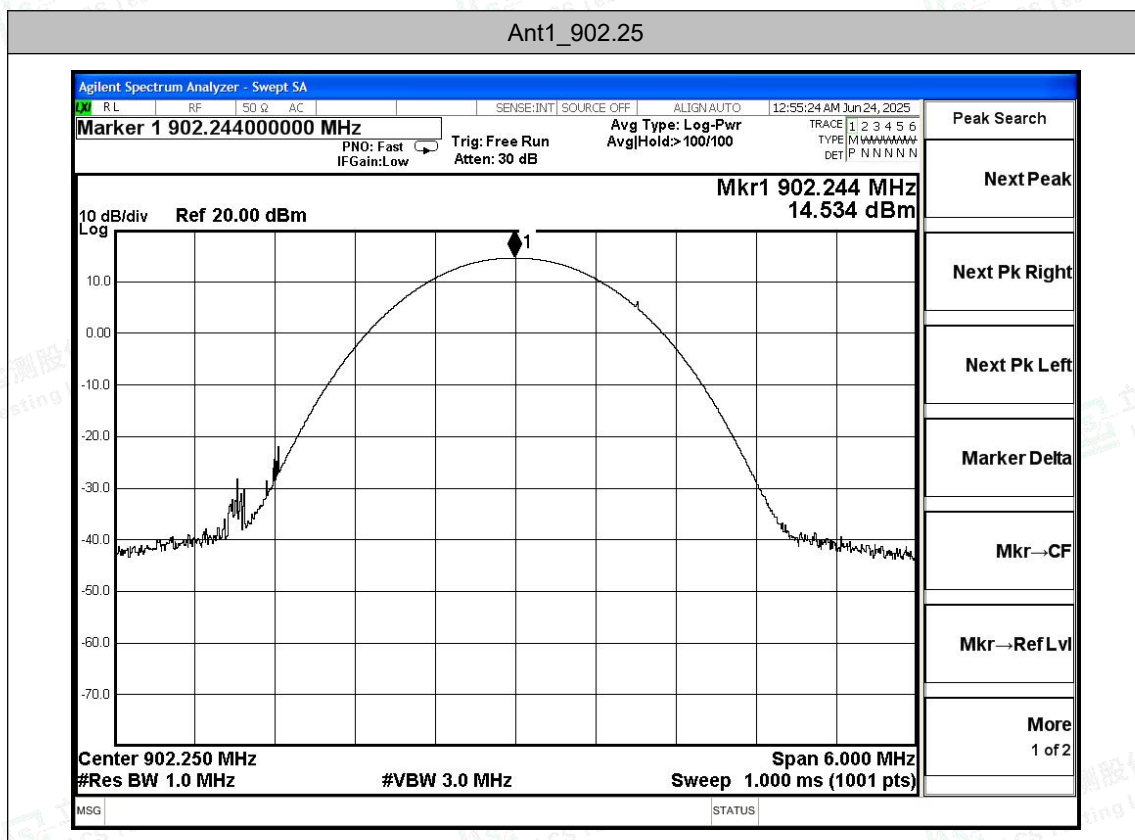


A.2 Maximum Peak Conducted Output Power

Test Result Peak

Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
Ant1	902.25	14.534	≤30	PASS
	914.85	14.310	≤30	PASS
	927.55	14.439	≤30	PASS

Test Graphs



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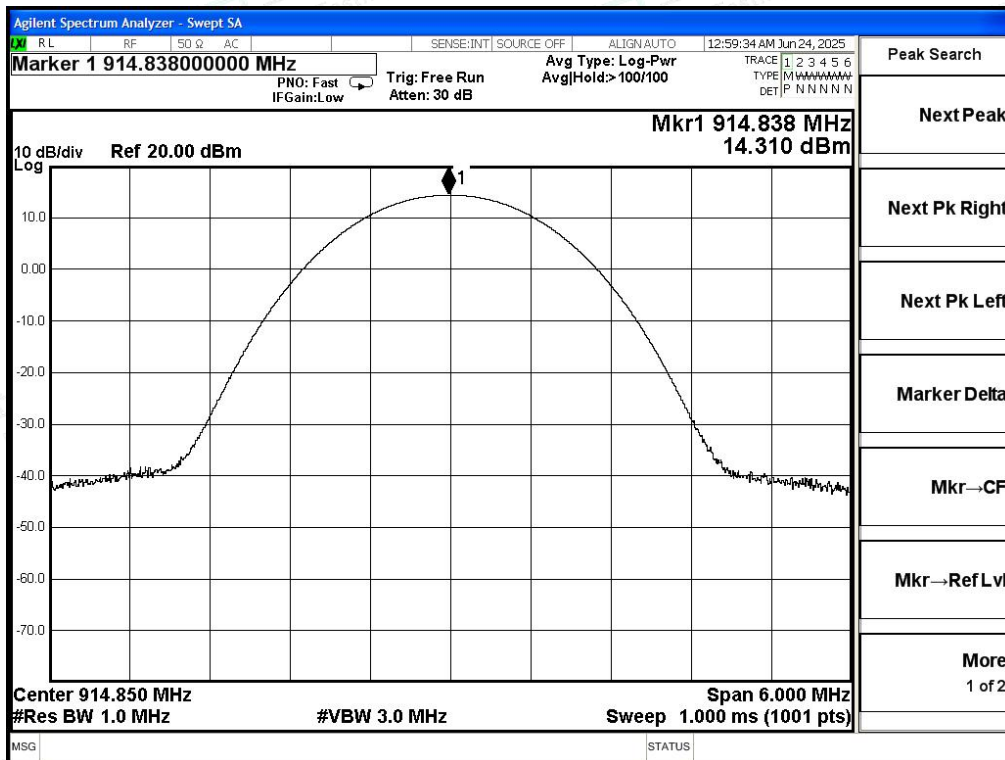
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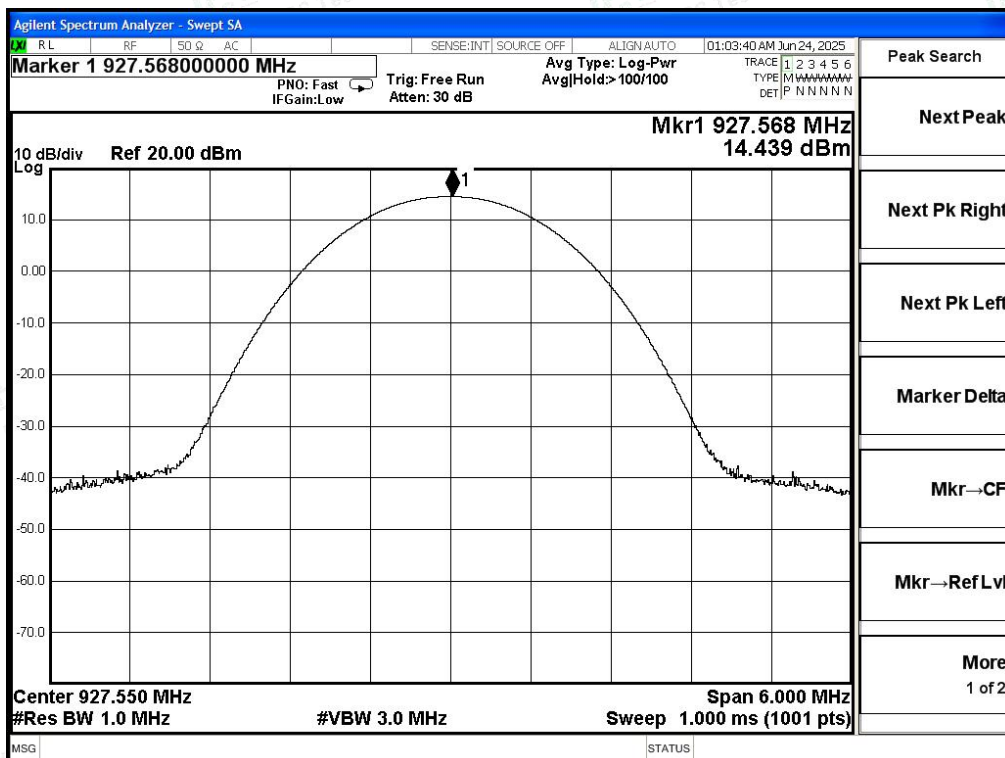
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Ant1_914.85



Ant1_927.55



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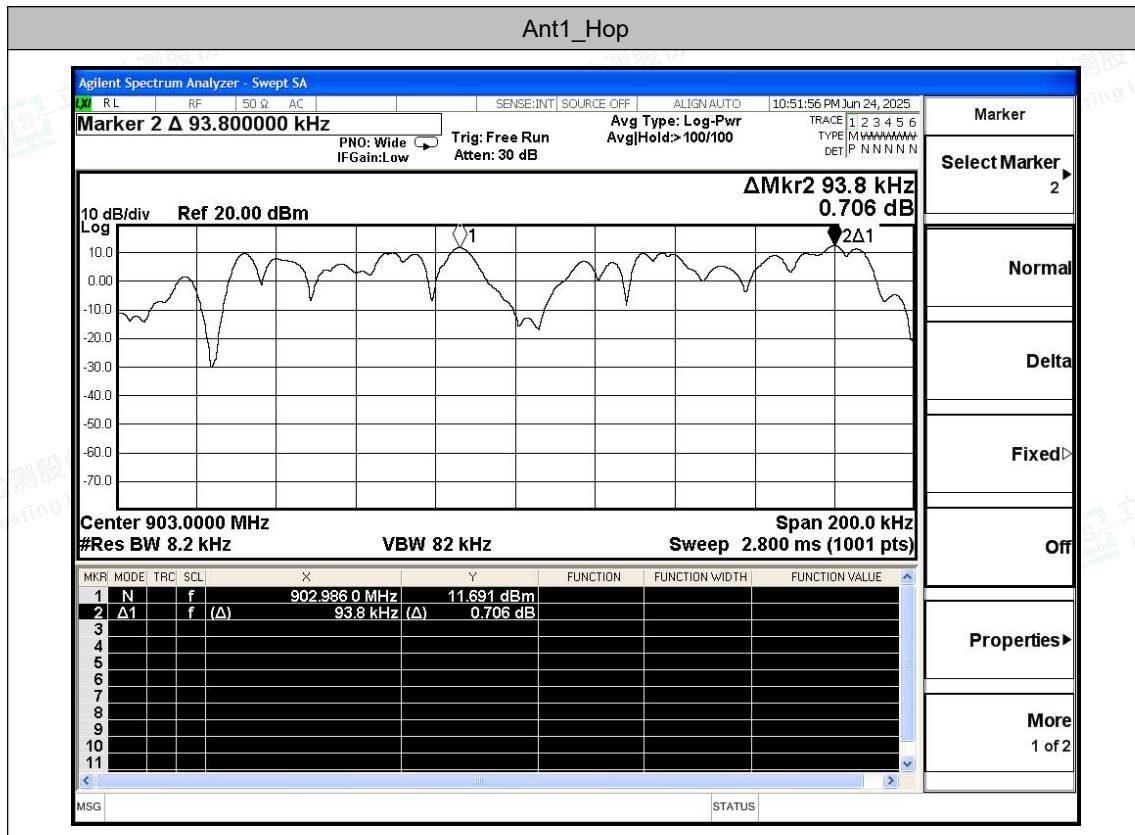


A.3 Carrier frequency separation

Test Result

Antenna	Channel[MHz]	Result[kHz]	Limit[kHz]	Verdict
Ant1	Hop	93.8	83.59	PASS

Test Graphs



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A.4 Time of occupancy

Test Result

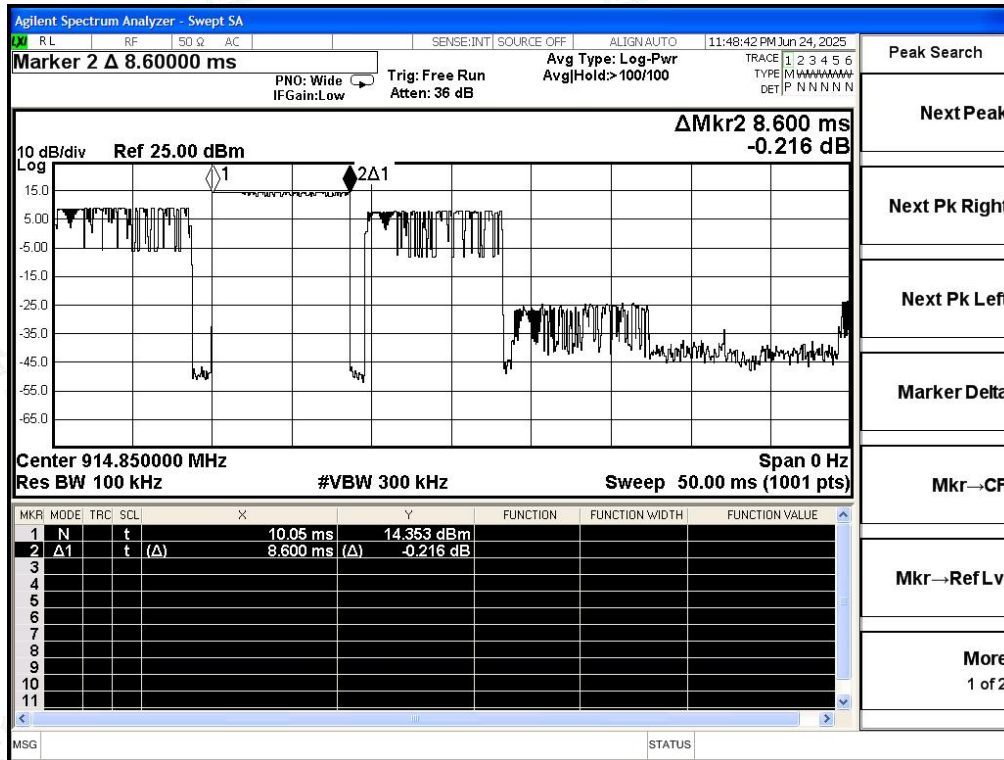
Antenna	Channel[MHz]	Burst Width[ms]	Total Hops[Num]	Result[ms]	Limit[ms]	Verdict
Ant1	Hop	8.6	3	25.8	<=400	PASS



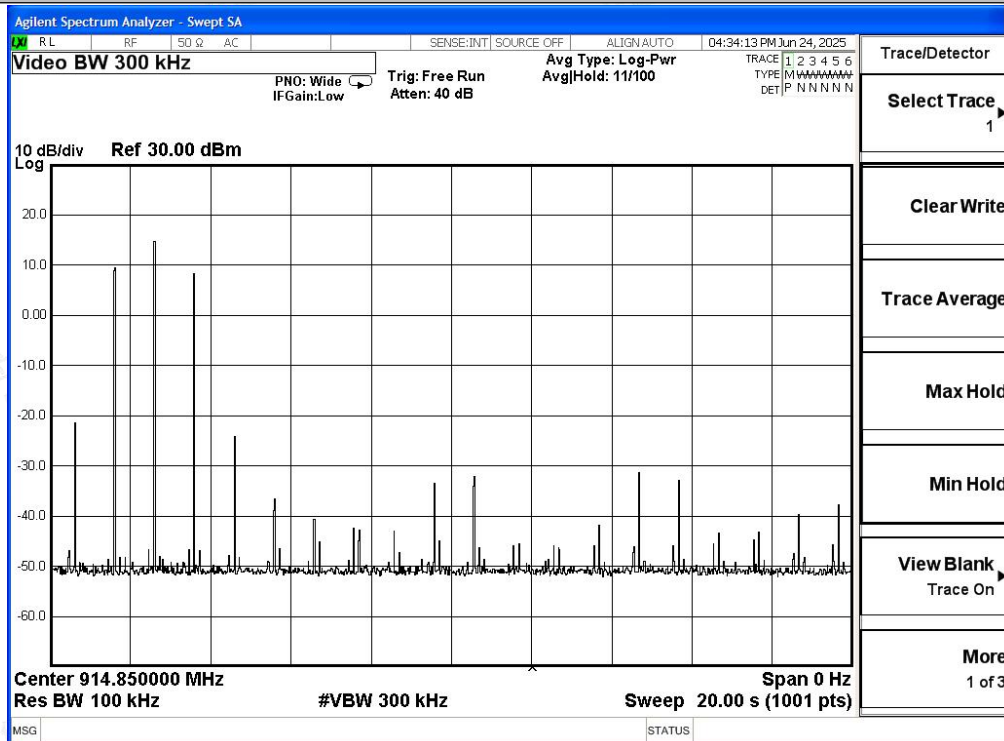


Test Graphs

Ant1_Hop



Ant1_Hop



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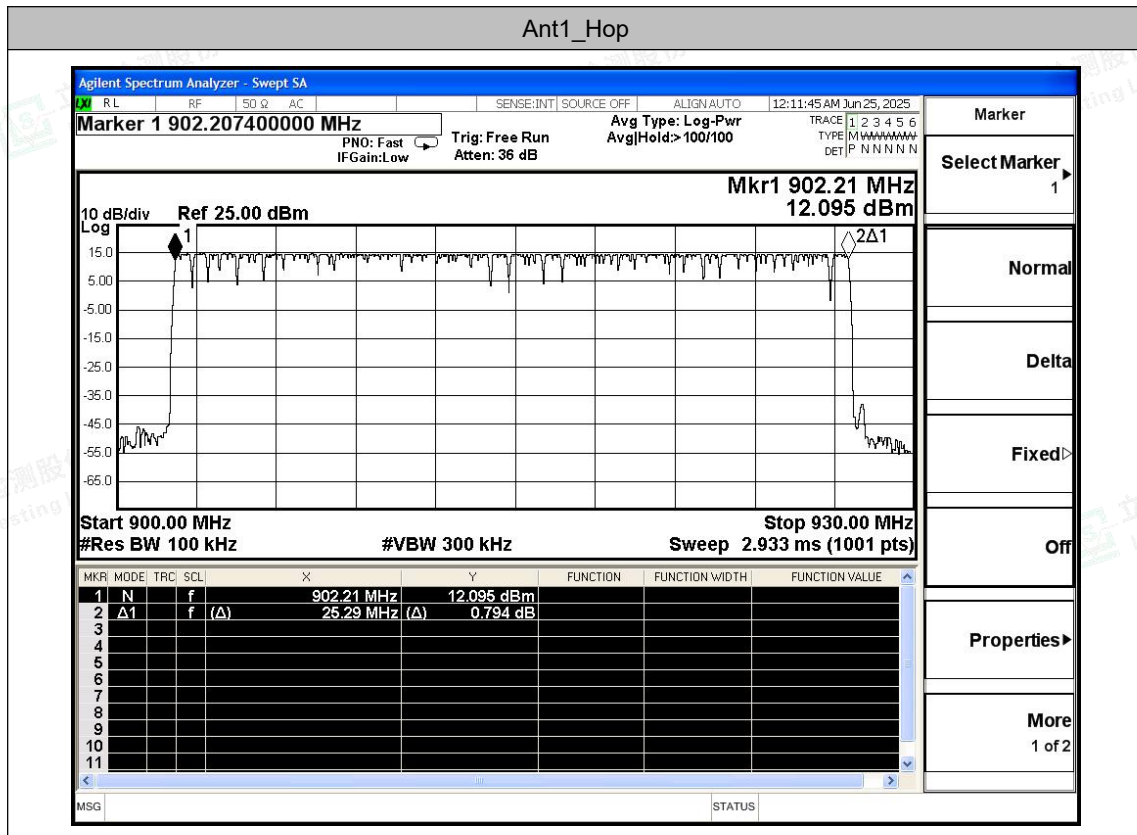


A.5 Number of hopping channels

Test Result

Antenna	Channel	Result[Num]	Limit[Num]	Verdict
Ant1	Hop	254	>=50	PASS

Test Graphs



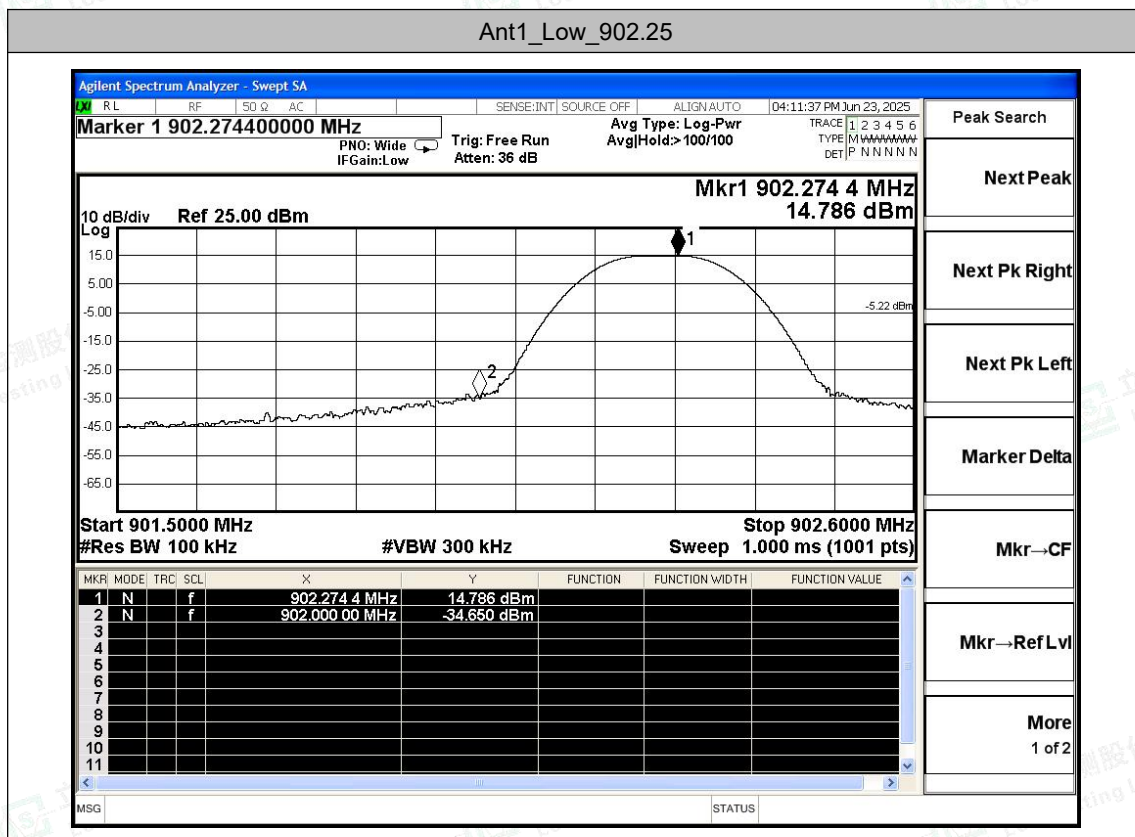


A.6 Band edge measurements

Test Result

Antenna	Ch Name	Channel[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
Ant1	Low	902.25	14.786	-34.650	<=7.66	PASS
	High	927.55	14.593	-30.491	<=7.92	PASS
	Low	902.25	14.542	-45.628	<=-5.28	PASS
	High	927.55	14.309	-31.558	<=-5.46	PASS

Test Graphs



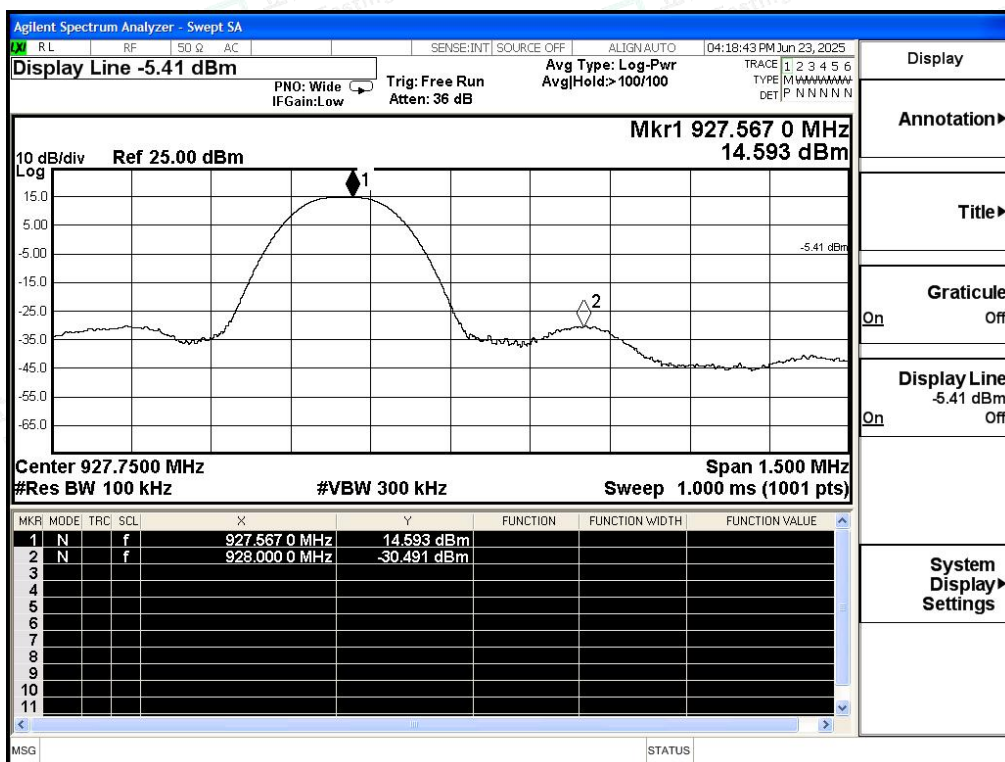
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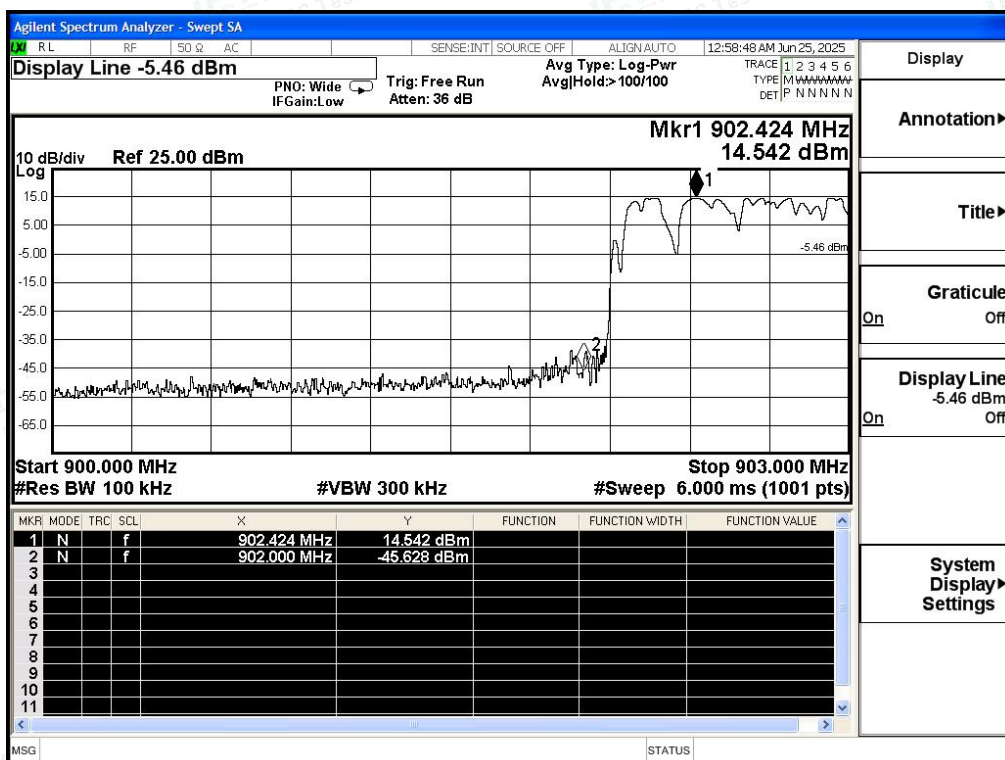
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Ant1_High_927.55



Ant1 Low Hop 902.25



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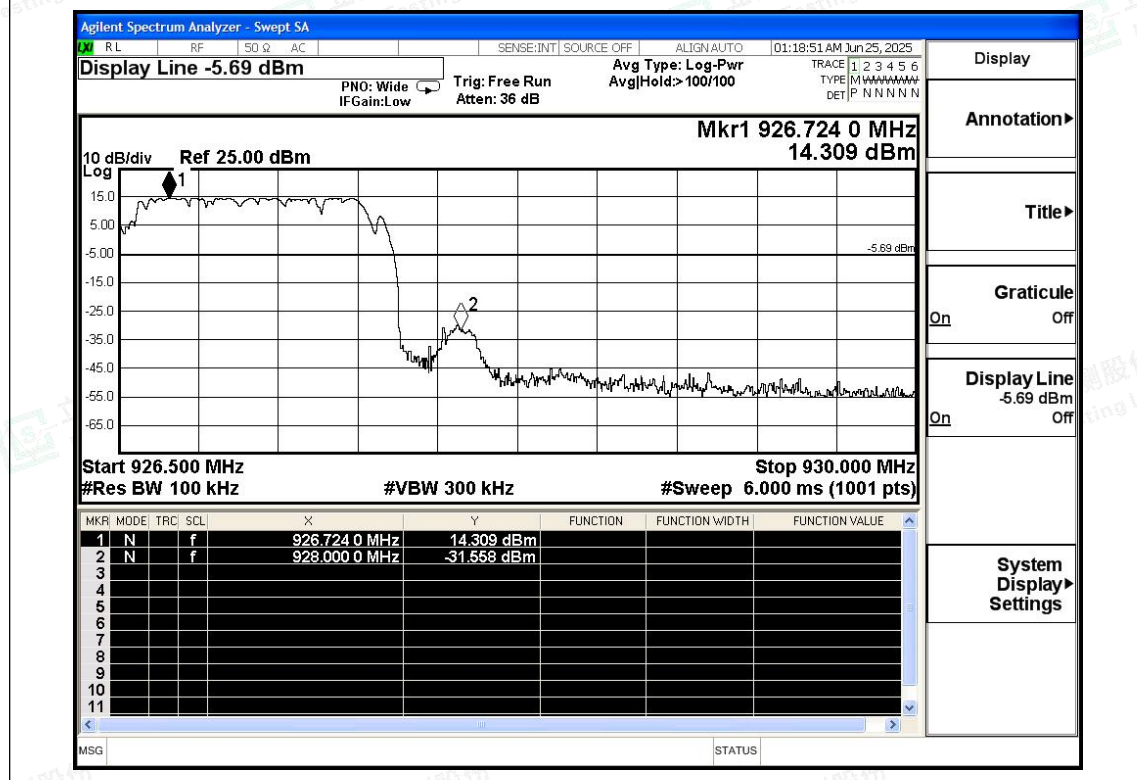
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Ant1_High_Hop_927.55



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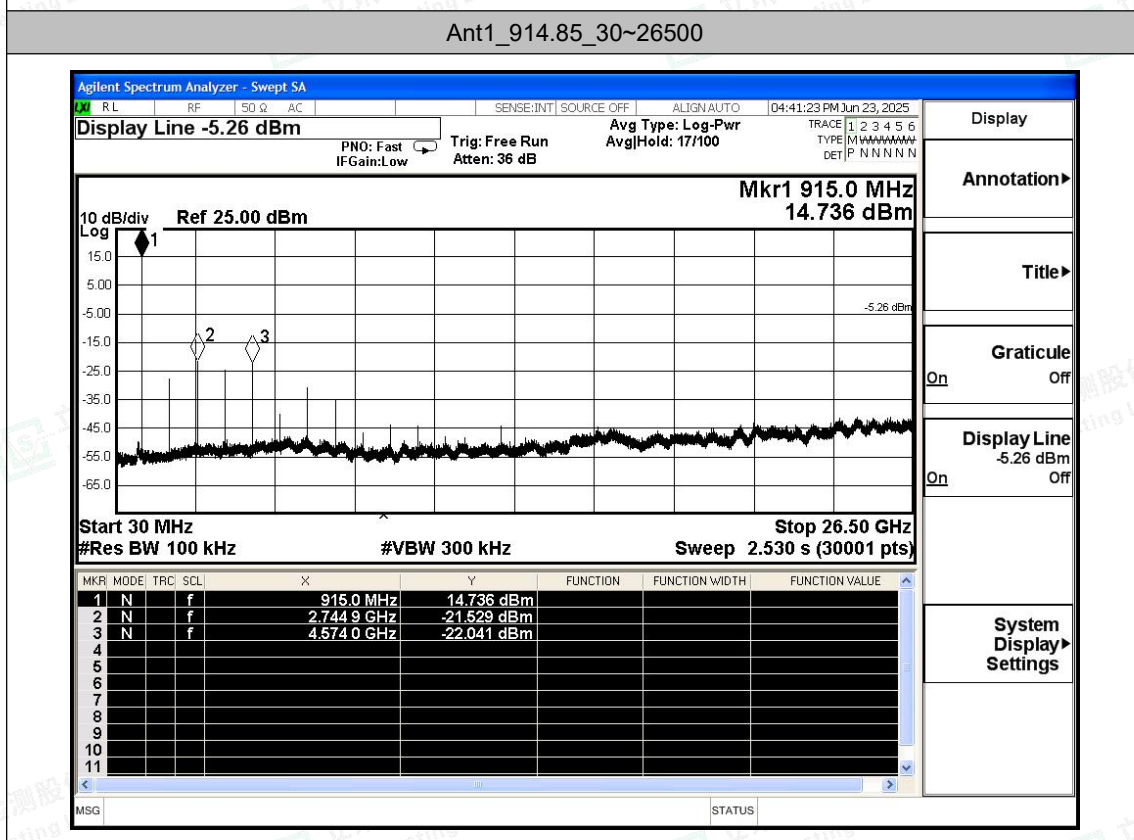
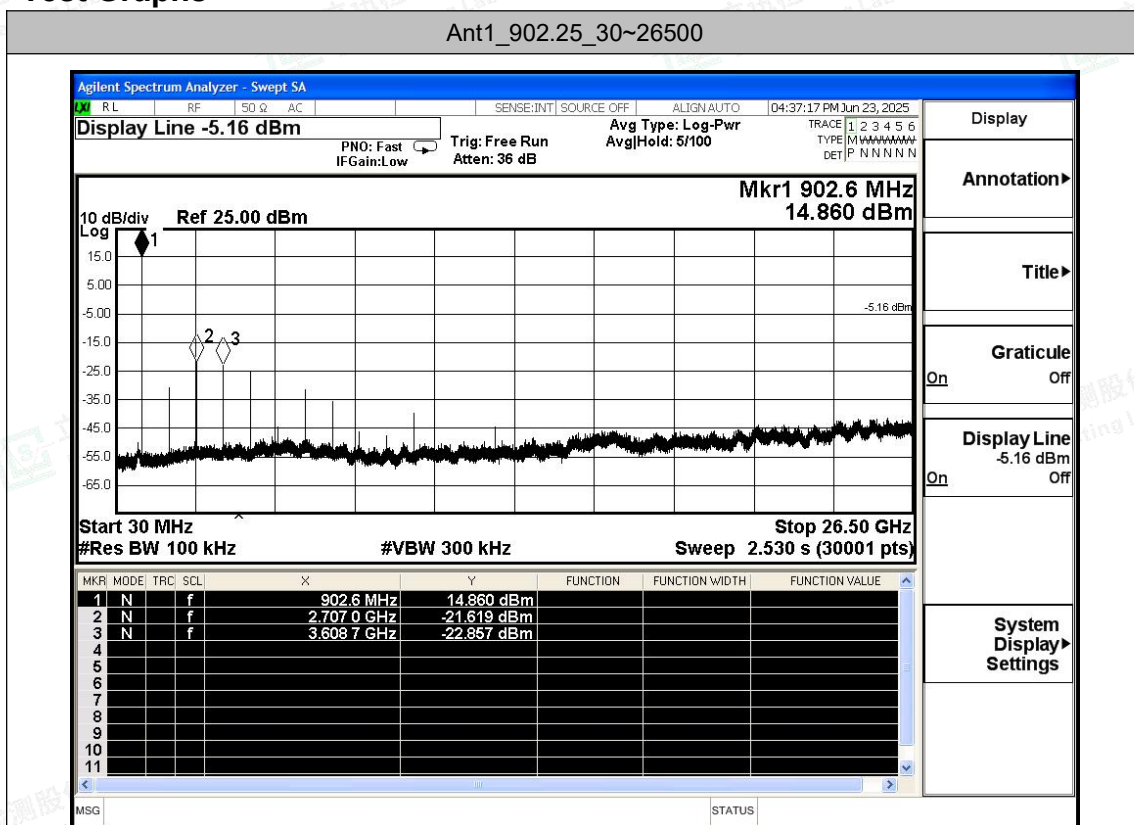
A.7 Conducted Spurious Emission

Test Result

Antenna	Channel[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
Ant1	902.25	30~26500	14.86	-21.619	<=-5.14	PASS
	914.85	30~26500	14.74	-21.529	<=-5.26	PASS
	927.55	30~26500	14.66	-18.847	<=-5.34	PASS



Test Graphs



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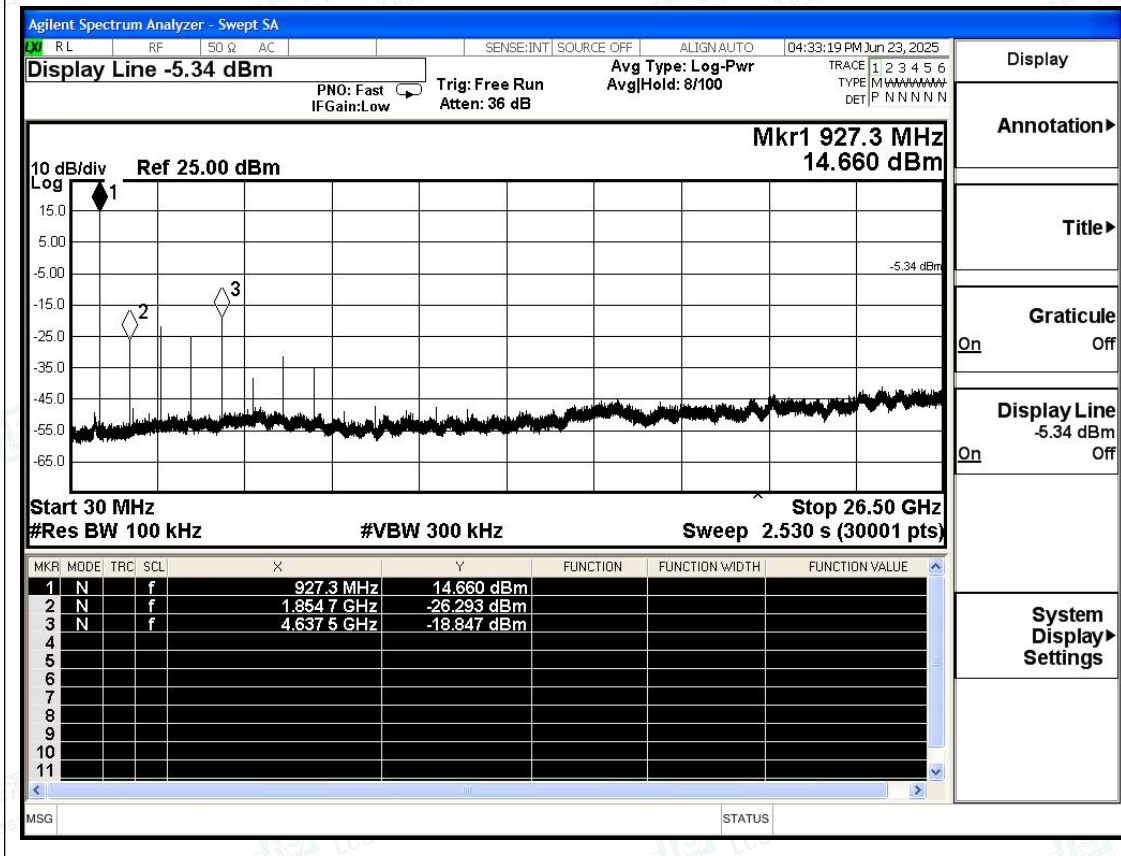
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Ant1_927.55_30~26500



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