



Appendix A

RF Test Data (Conducted Measurement)

Product Name: RFID radio module

Test Model: HR601M

HVIN: HR601M

Environmental Conditions

Temperature:	23.6 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li Huan

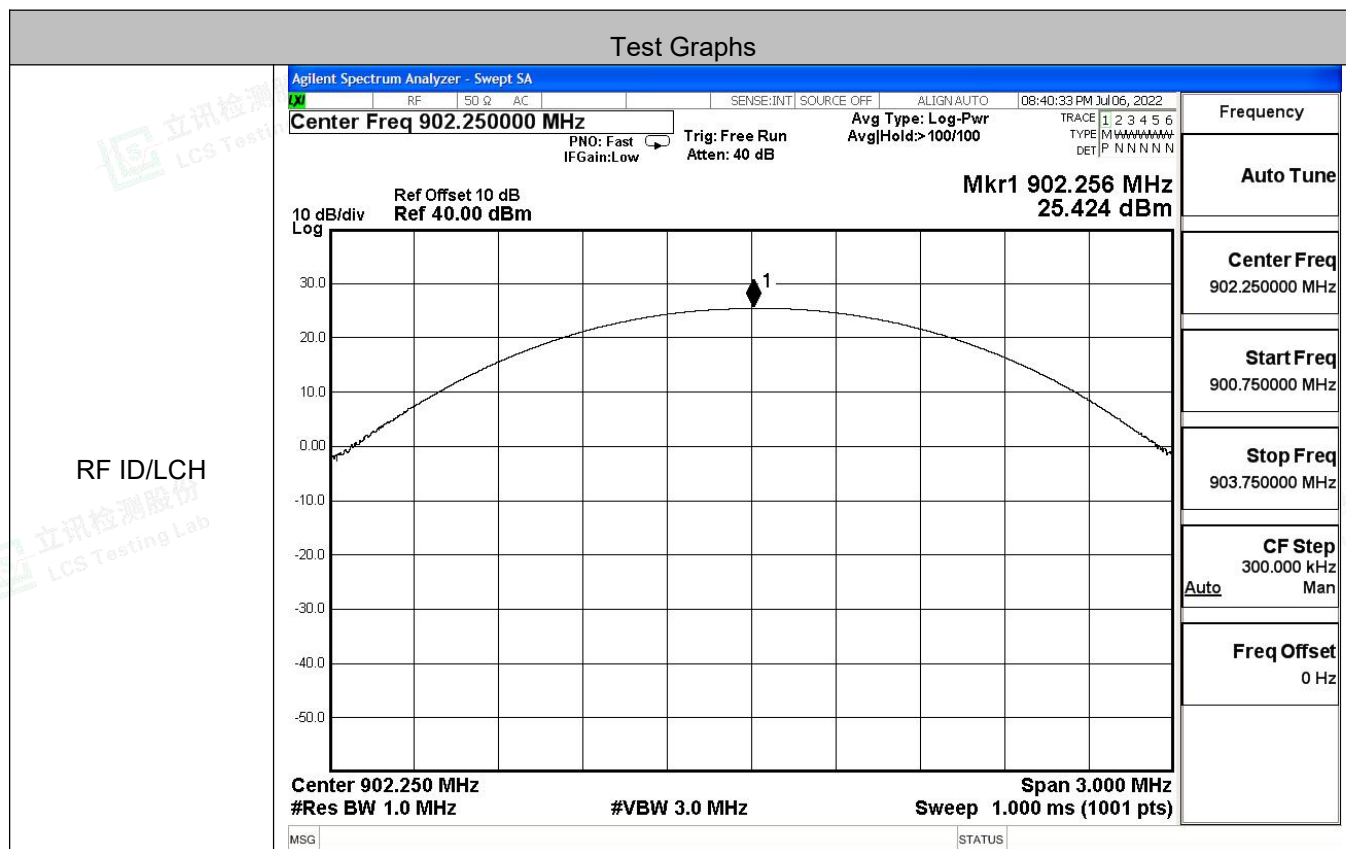


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A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
RF ID	LCH	25.424	30	PASS
	MCH	25.676	30	PASS
	HCH	25.769	30	PASS



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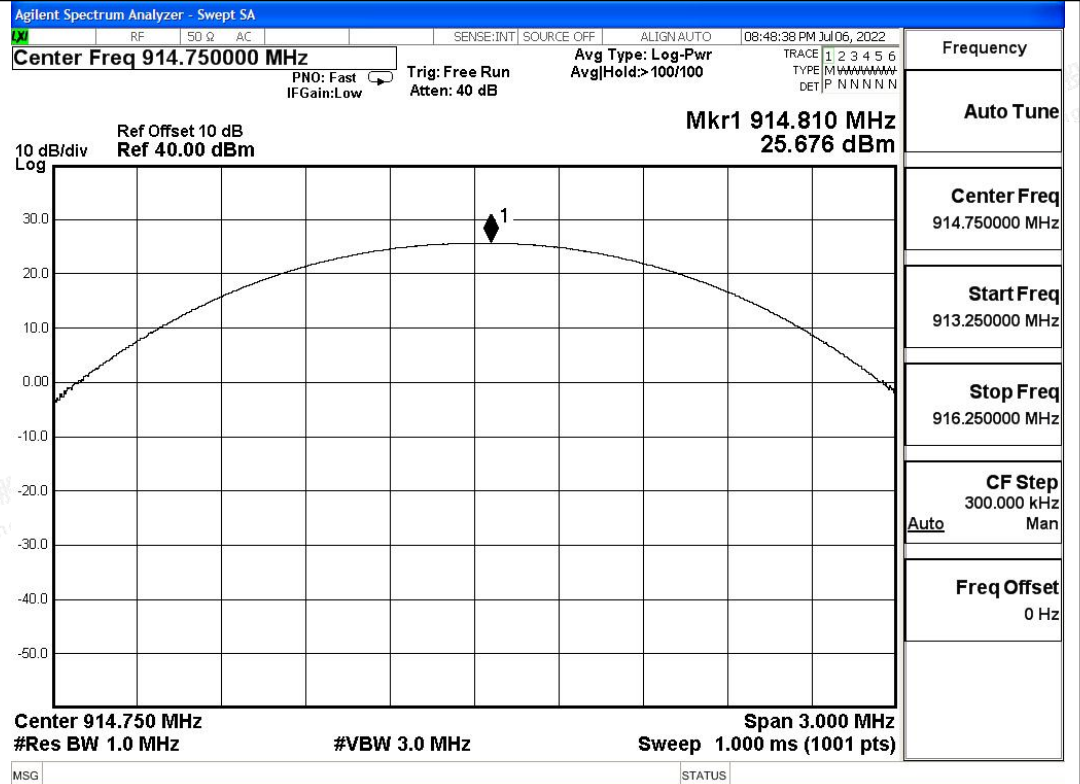
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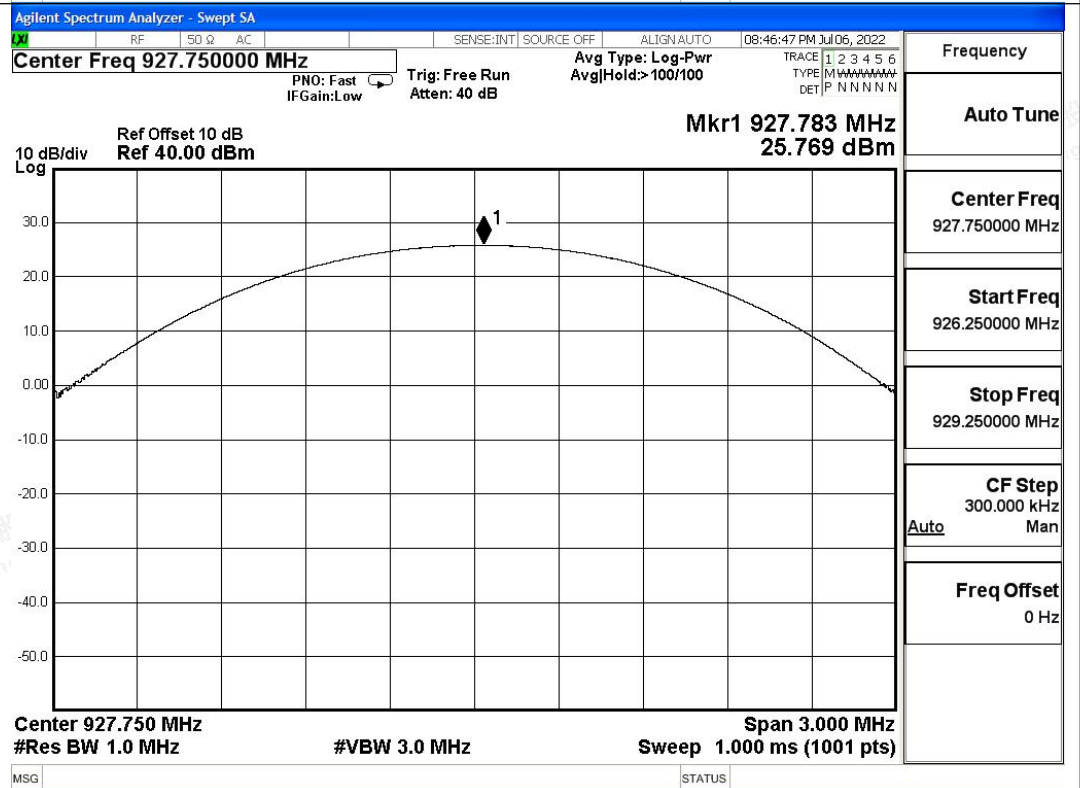
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RF ID/MCH



RF ID/HCH



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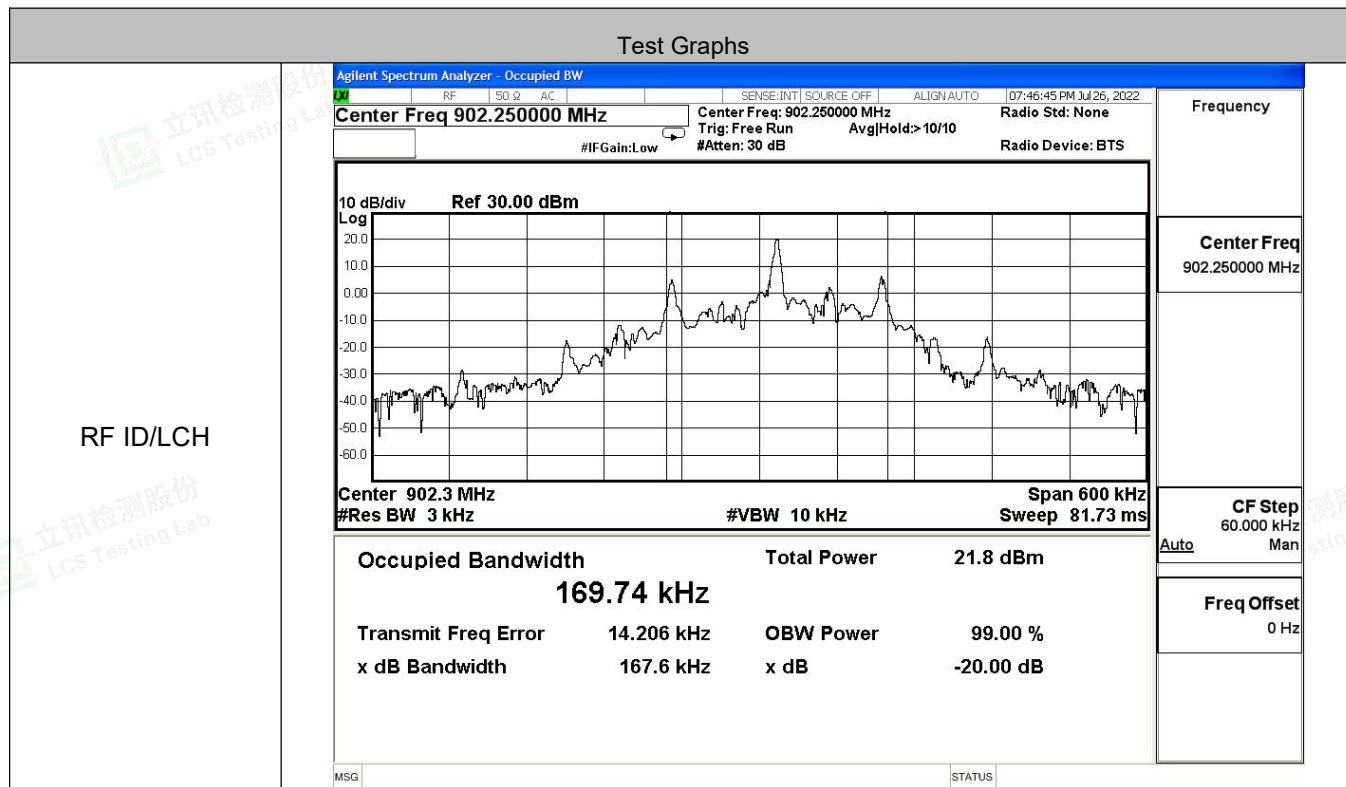
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A.2 99% Bandwidth and 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [kHz]	Limit [kHz]	99% Bandwidth [kHz]	Verdict
RF ID	LCH	167.6	≤500	169.74	PASS
	MCH	167.7	≤500	169.59	PASS
	HCH	167.5	≤500	169.41	PASS

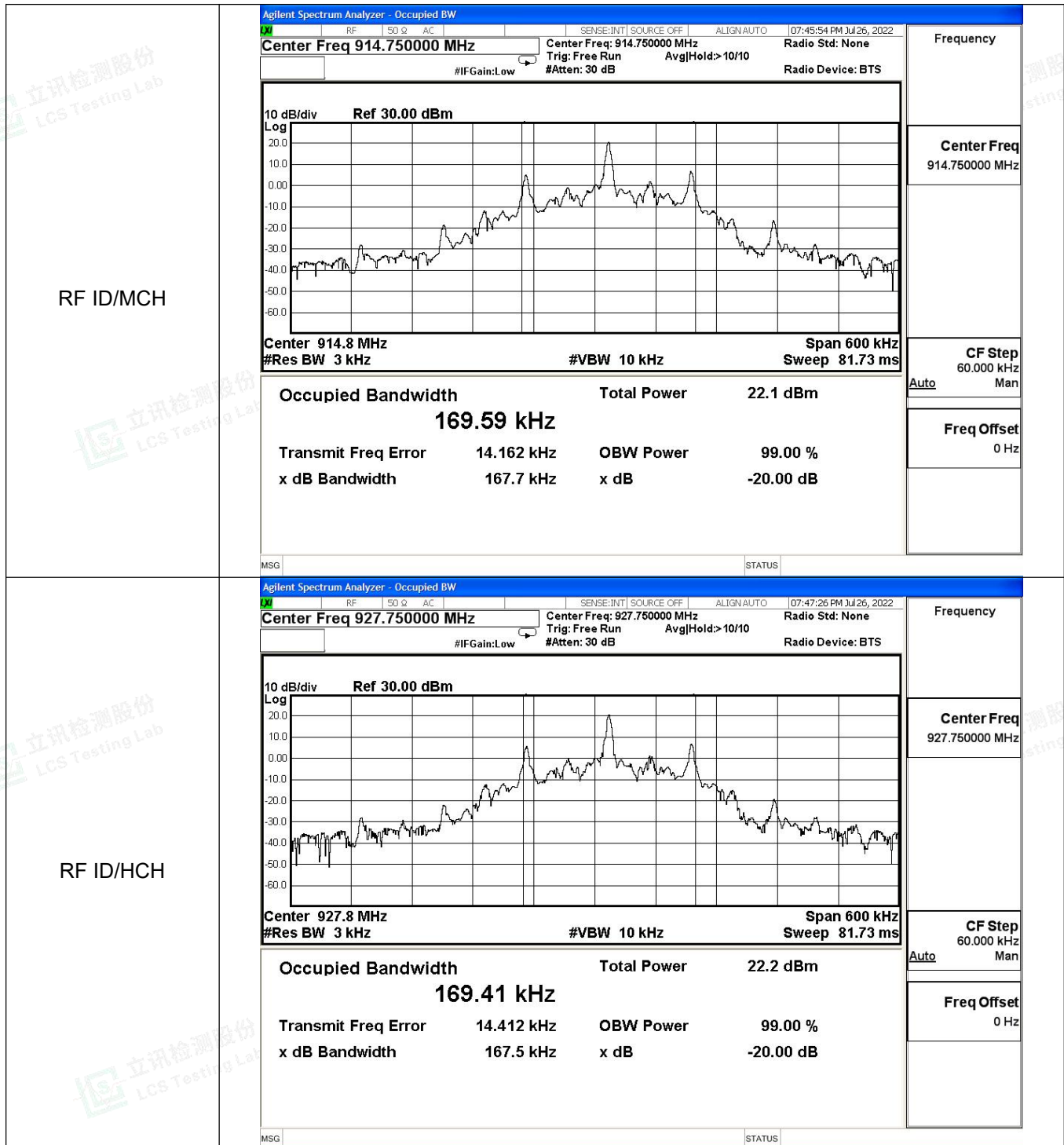


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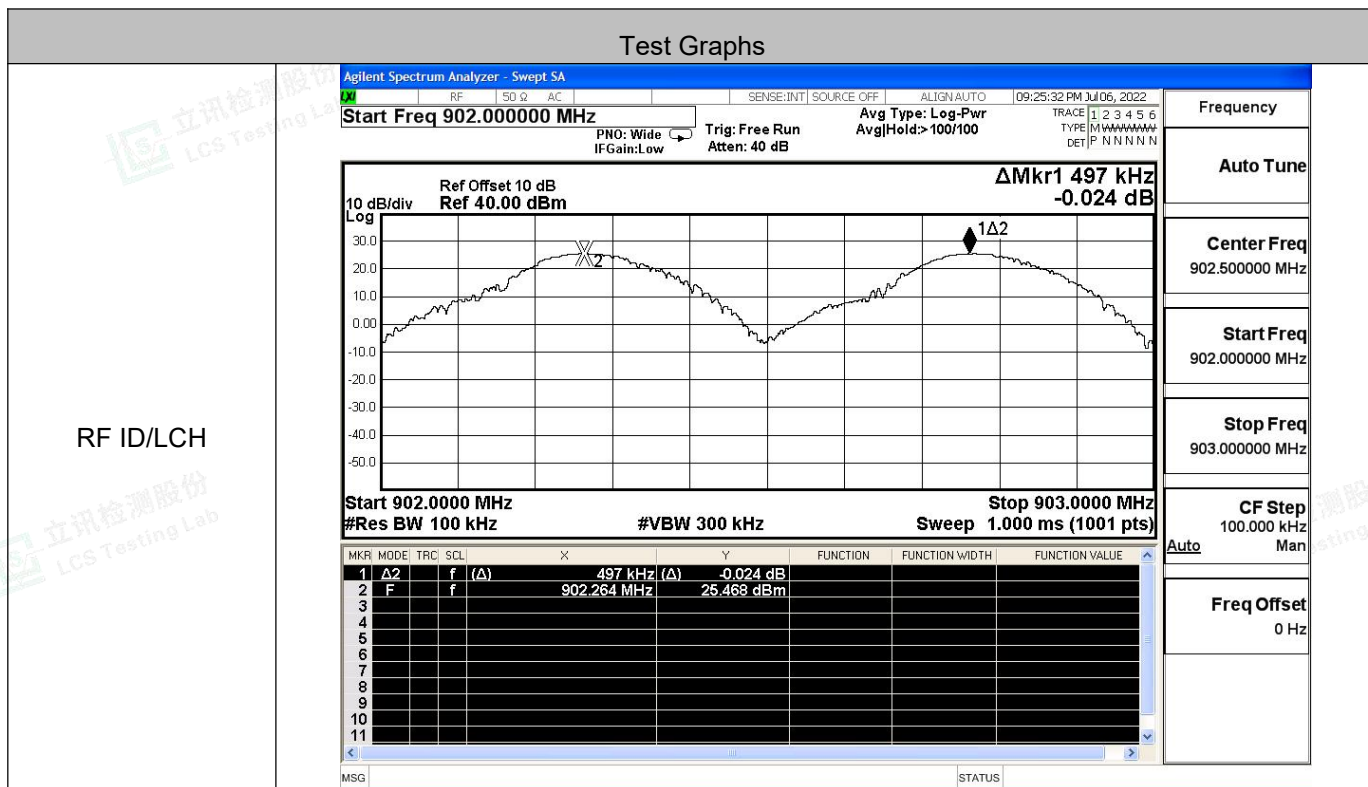
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A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [kHz]	Limit [kHz]	Verdict
RF ID	LCH	497	≥ 167.6	PASS
	MCH	500	≥ 167.7	PASS
	HCH	504	≥ 167.5	PASS



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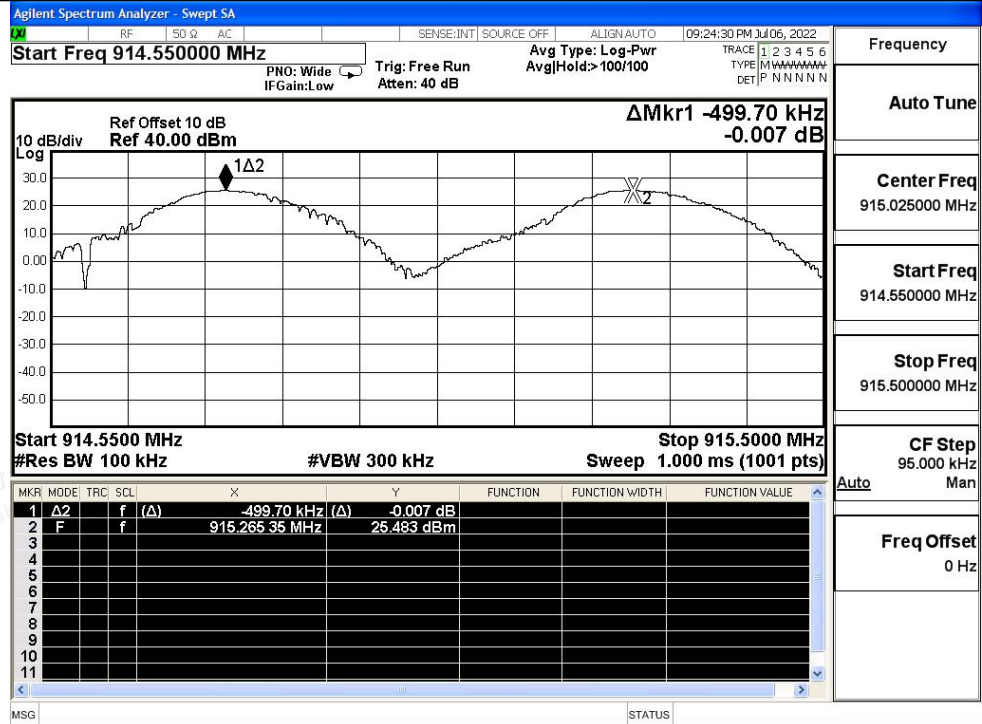
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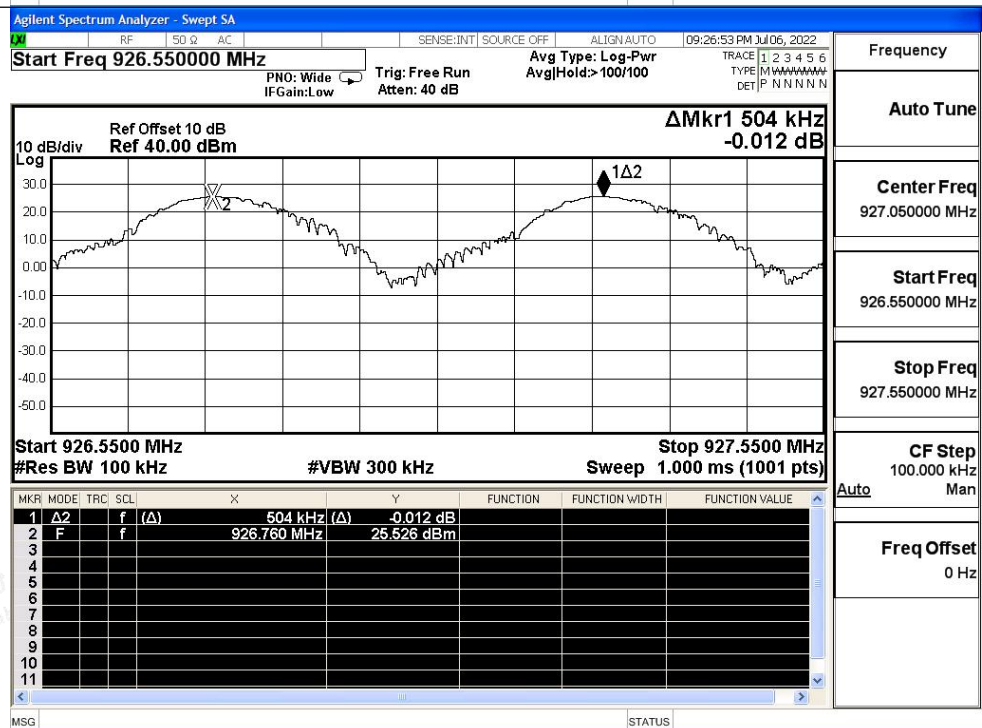
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RF ID/MCH



RF ID/HCH



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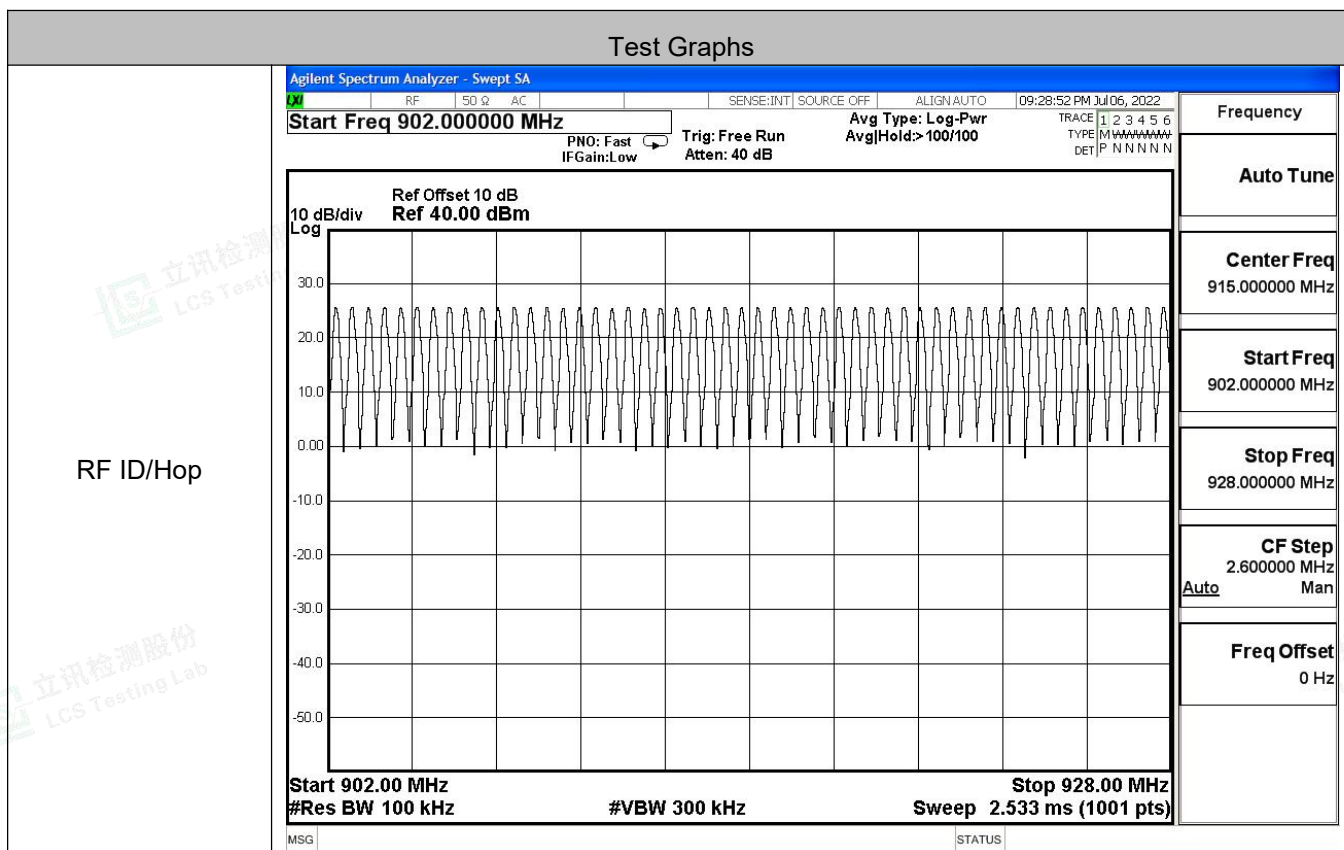
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A.4 Hopping Channel Number

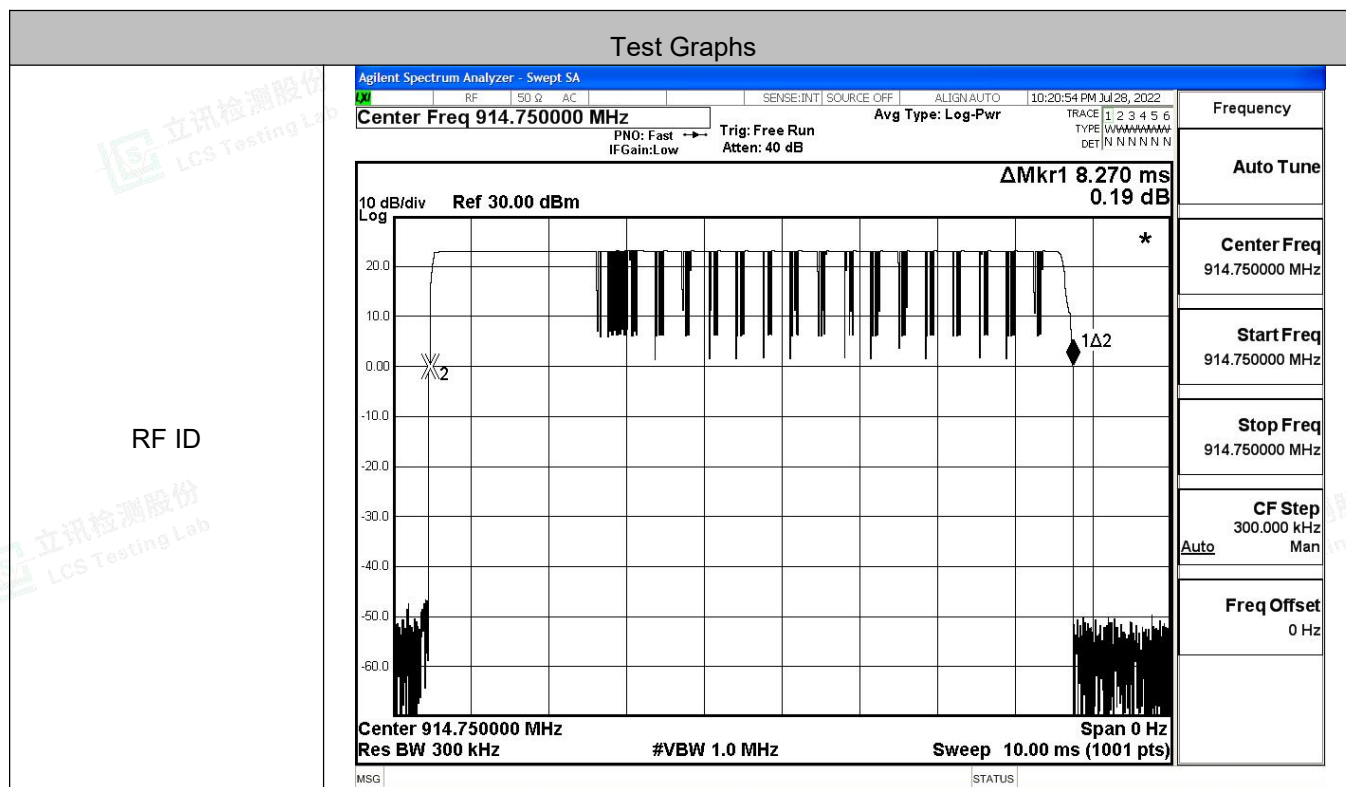
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
RF ID	Hop	52	≥ 50	PASS

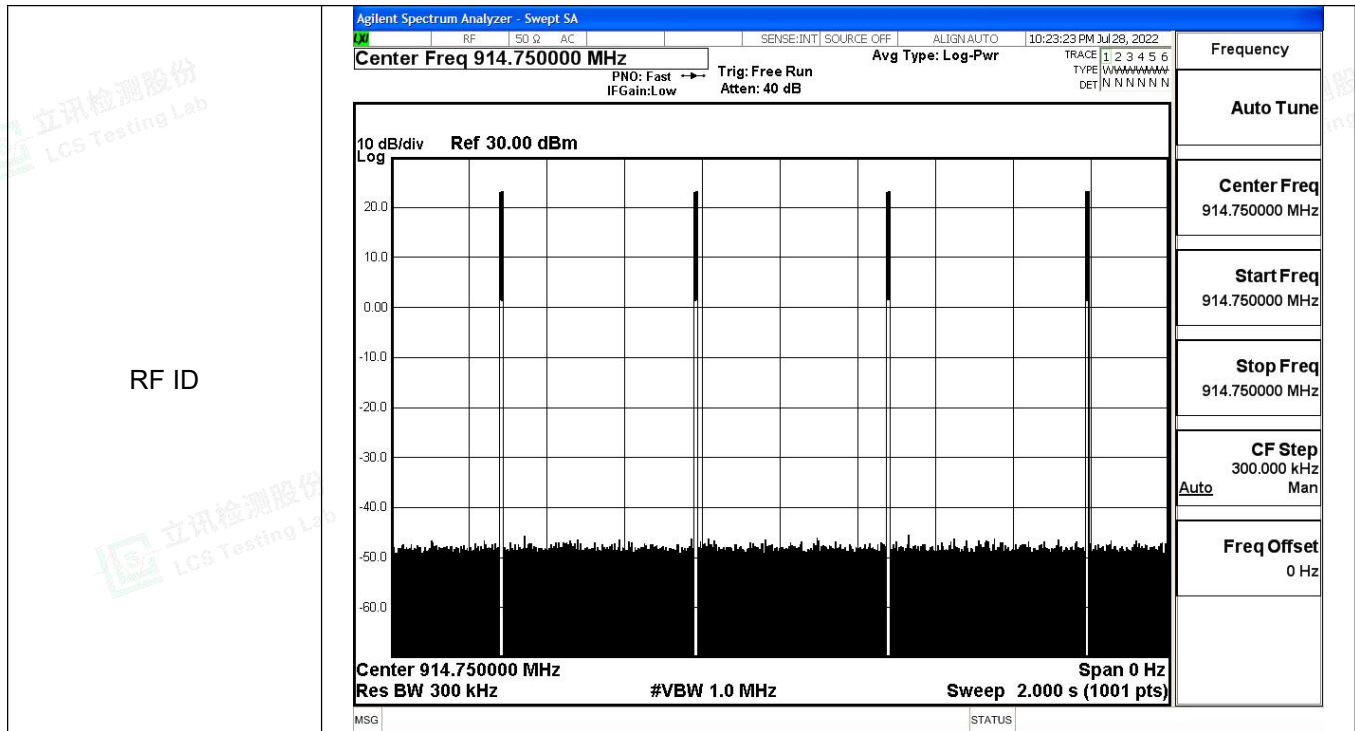




A.5 Dwell Time

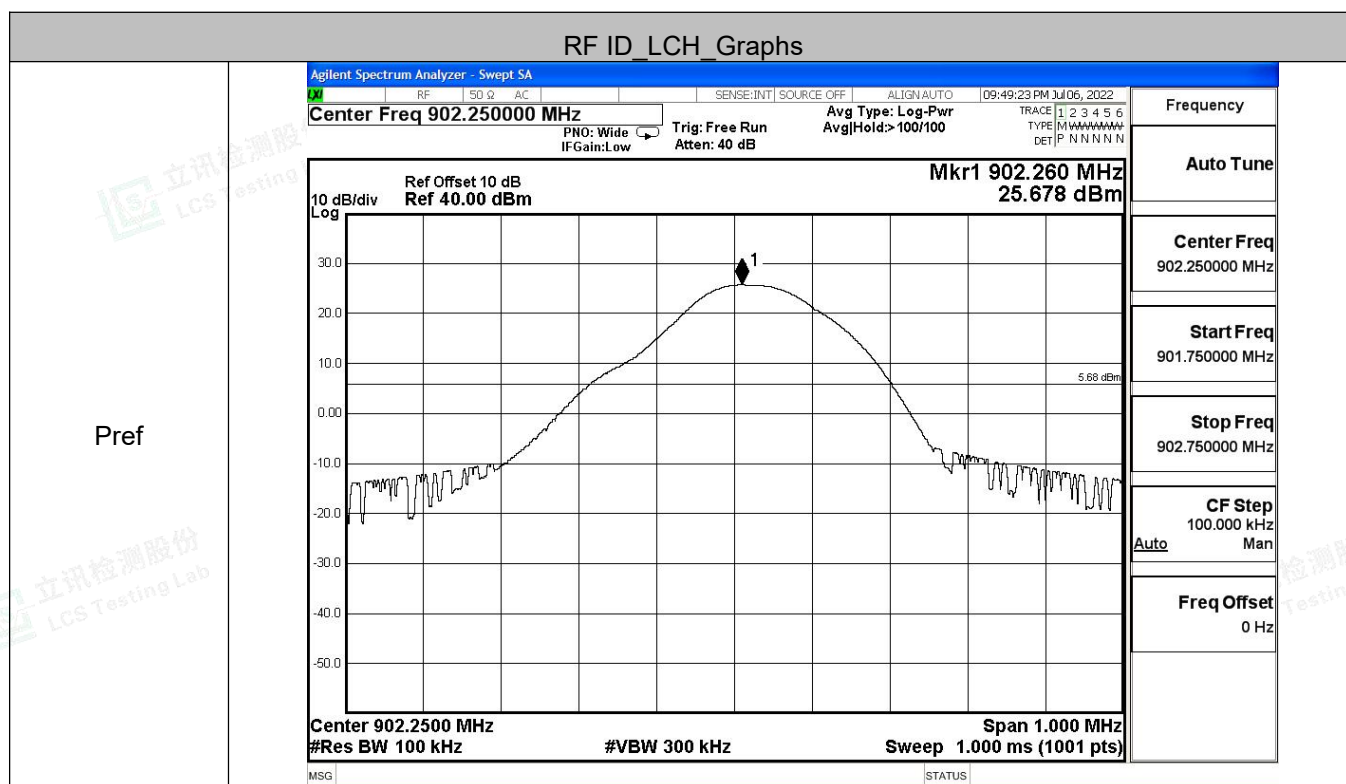
Channel	Pulse width [ms]	Number pulses in 2s	The average time of occupancy in 20s [s]	Limit [s]	Verdict
914.75	8.270	4	0.331	0.4	PASS





A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
RF ID	LCH	27.476	-33.738	5.68	PASS
	HCH	26.920	-34.313	5.75	PASS

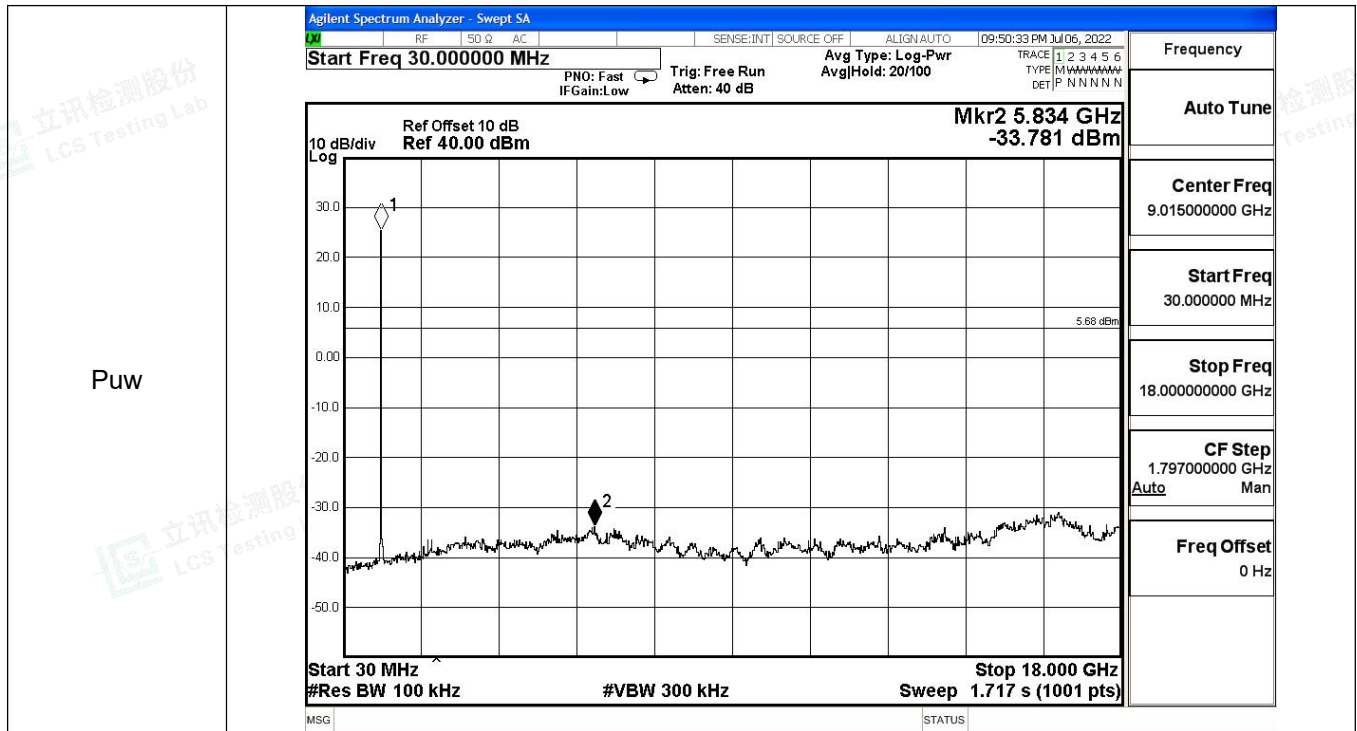


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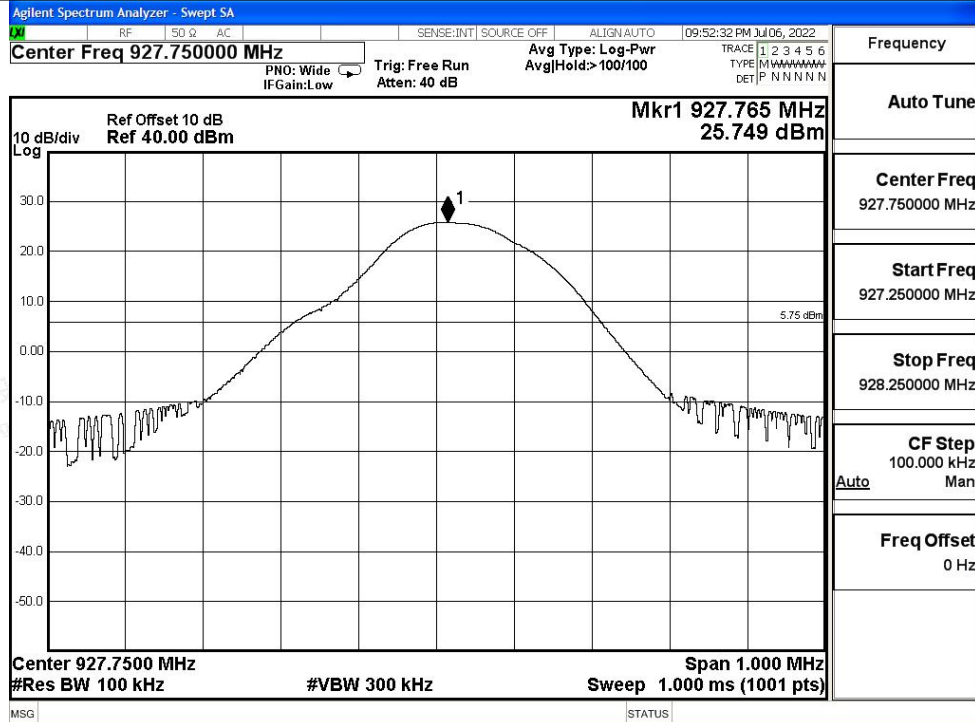
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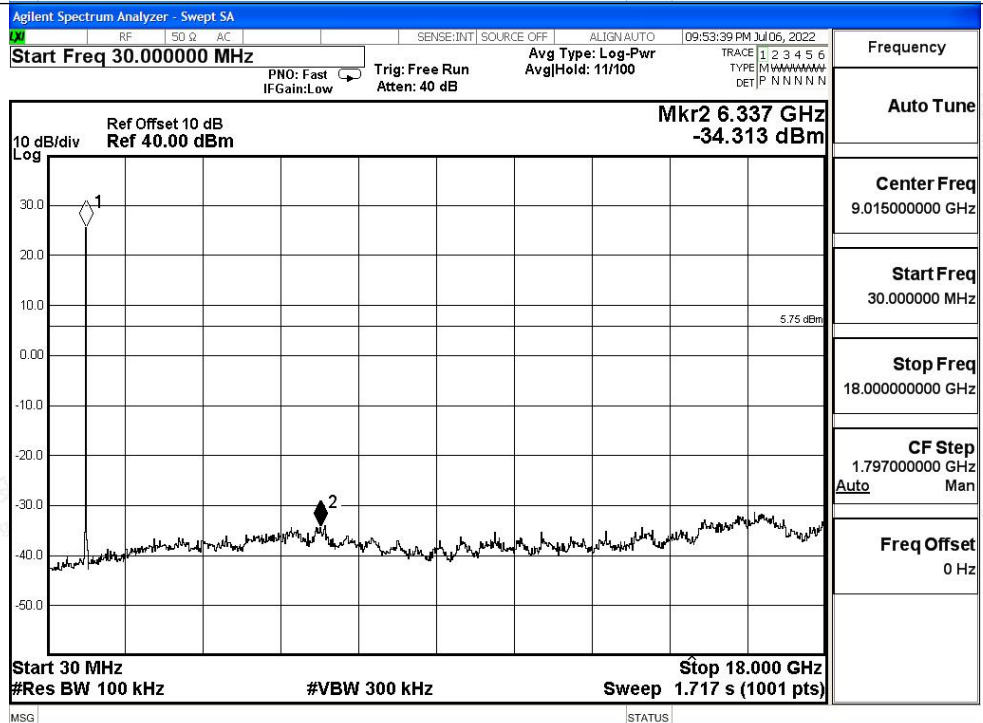


RF ID_HCH_Graphs

Pref



Puw



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A.7 Band-edge for RF Conducted Emissions

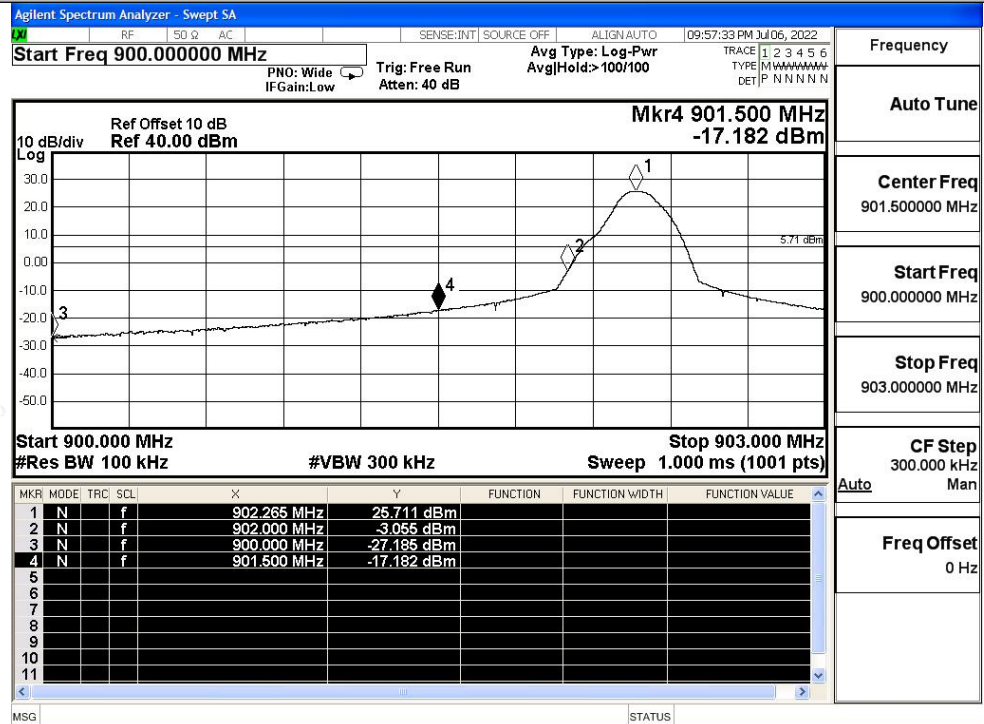
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
RF ID	LCH	902.75	25.71	Off	-3.05	5.71	PASS
			25.77	On	0.22	5.77	PASS
	HCH	927.25	25.78	Off	-0.88	5.78	PASS
			25.79	On	3.25	5.79	PASS



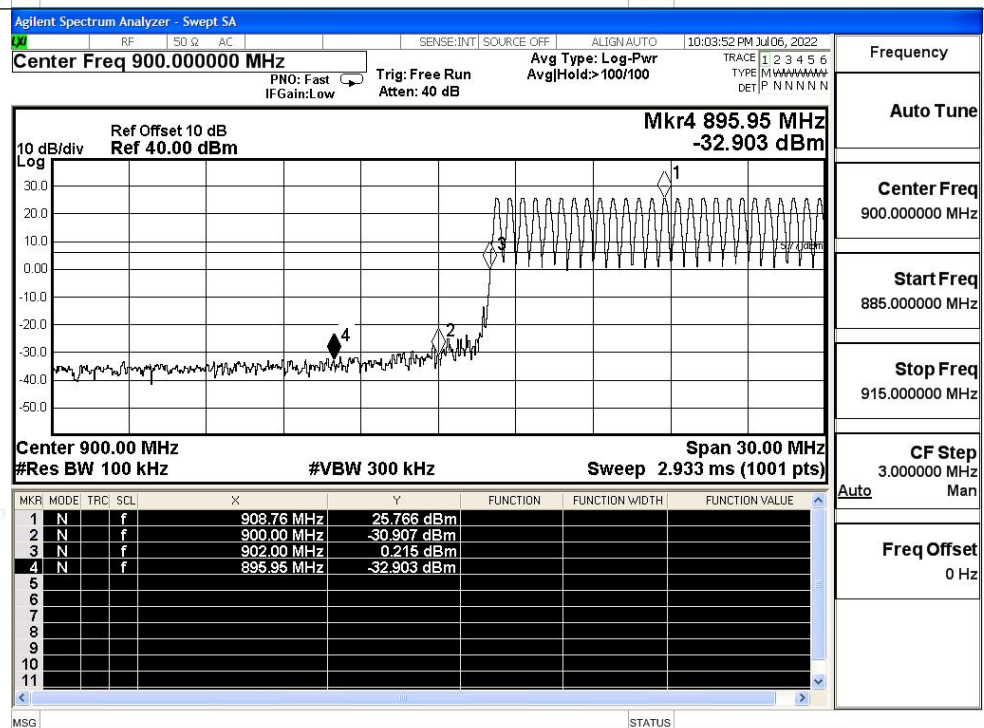


Test Graphs

RF ID/LCH/No Hop



RF ID/LCH/Hop



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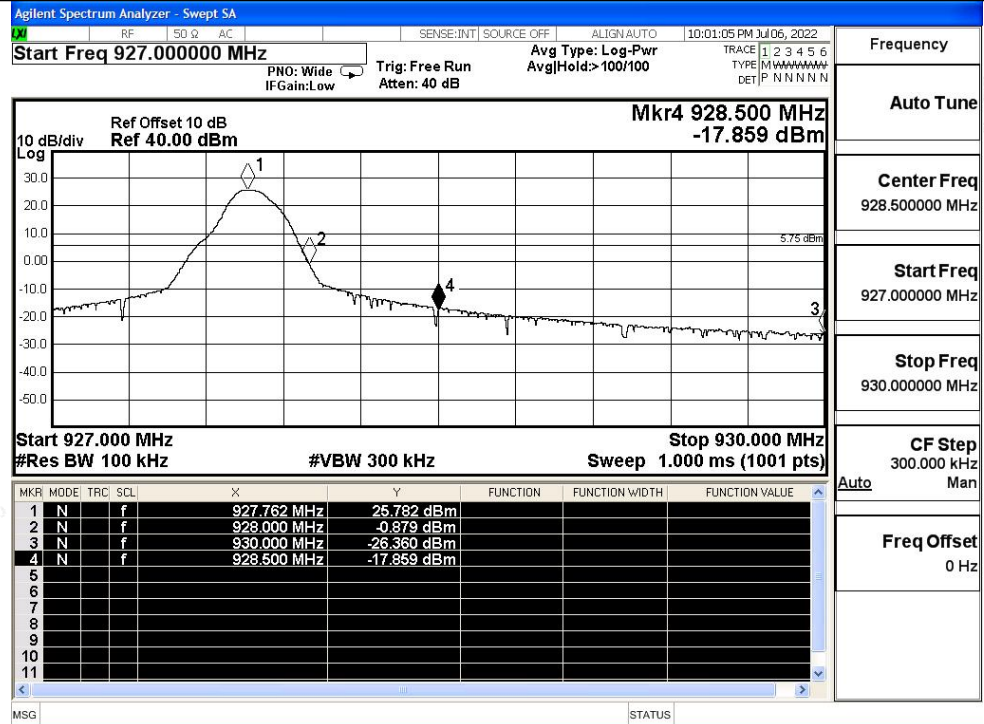
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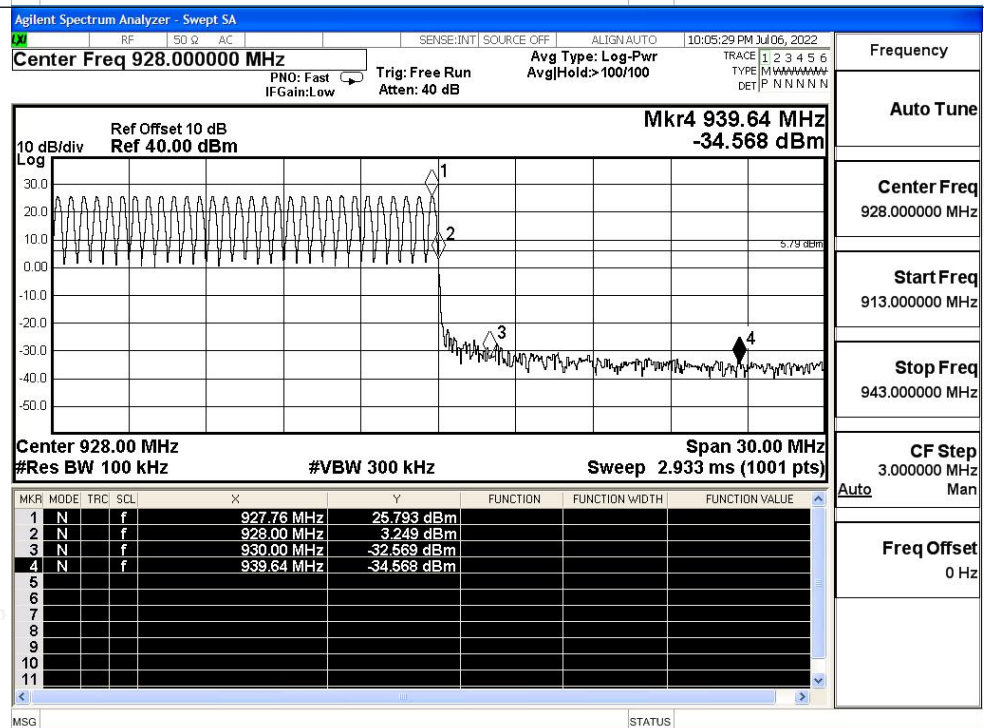
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RF ID/HCH/No Hop



RF ID/HCH/Hop



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