



**SUMMARY TEST DATA
ON
PMTO-8R8G9R56G-CD-1**

PL30947/2051

Customer: _____ Tested By: Garrett Radtke
 SO No: _____ Temperature: +25°C
 Model No: PMTO-8R8G9R56G-CD-1 Date: 12/15/2020
 Serial No: PL30947/2051 Drawing No: 27631550 Rev: A3

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC	
1	Frequency Range	8.8 to 9.56 GHz (Tuning) 8.9 to 9.46 GHz (Specifications)	8.8 TO 9.56 GHz (Tuning @ +25 Deg C) 8.9 TO 9.46 GHz (Specifications)	PMI QA 2	
2	Tuning Sensitivity	65 MHz/360° MIN 100 MHz/360° MAX	87.54 MHz/360° 87.67 MHz/360° (Set Intercept) See Graphs		
3	Output Frequency vs Tuner Rotation	±10 MHz (8.90 to 8.93 GHz) ±10 MHz (8.93 to 9.43 GHz) ±15 MHz (9.43 to 9.46 GHz)	-7.3 MHz (8.90 to 8.93 GHz) 6.8 MHz (8.93 to 9.43 GHz) -6.6 MHz (9.43 to 9.46 GHz) See Graphs		
4	Power Output (Any Frequency)	J1: +10 (+3, -0) dBm J2: 0 (+3, -0) dBm	11.26 to 12.44 dBm 0.95 to 2.92 dBm		
5	Tuning Element	Starting Torque: 25 inch-oz MAX Withstanding Torque: 100 inch-oz MIN	PASS		
6	Spurious Harmonic Signals	60 dBc MIN (IN BAND) 45 dBc MIN (OUT OF BAND) 30 dBc MIN (HARMONICS)	73.33 dBc 92.29 dBc 46.66 dBc		
7	Noise	See Plots Below	PASS		
8	Temperature Coefficient	2.5 MHz/hr TYP. @ any constant TEMP. from 0°C to +40°C 150 MHz/hr TYP. @ any constant TEMP. from 40°C to +50°C	PASS		
9	Long Term Frequency Drift	50 kHz/hr MAX @ any constant temperature from 0°C to +50°C	PASS		
10	Pulling Factor	<50 kHz	PASS		
11	Regulator/Oscillator Power Supply	+24±1 VDC @ 1.5 A MAX 2% Regulation, Ripple = 2 mVrms	+24±1 @ 0.19 A		
12	Heater Power Supply	+24±1 VDC @ 1.5 A MAX 2% Regulation, Ripple = 50 mVrms	+24±1 @ 0.97 A		
13	Weight	3.2 lbs MAX	3 lbs		PMI QA 2

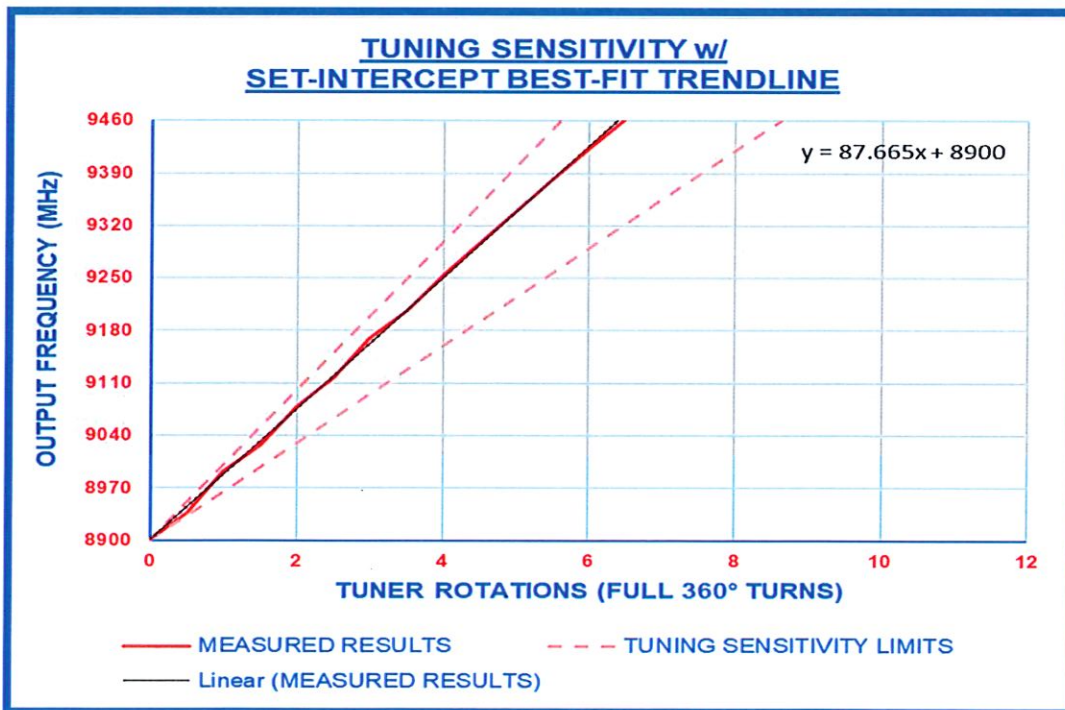
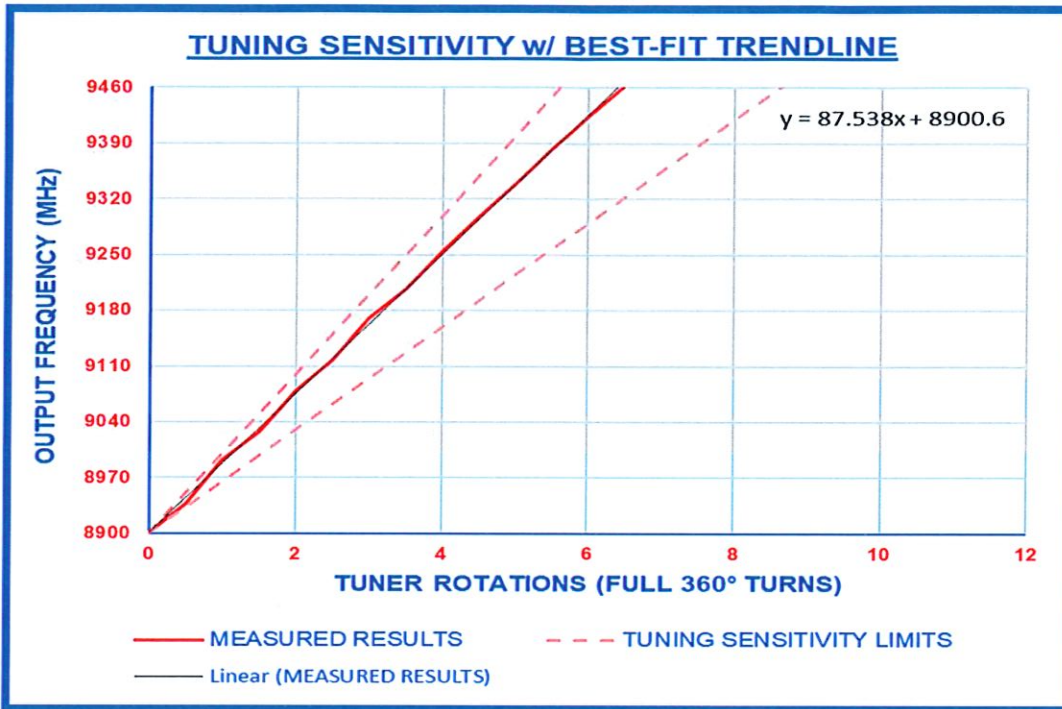
QA/QC Approval: *Garrett Radtke* PMI QA 2 Date: 12/16/20



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TUNING SENSITIVITY

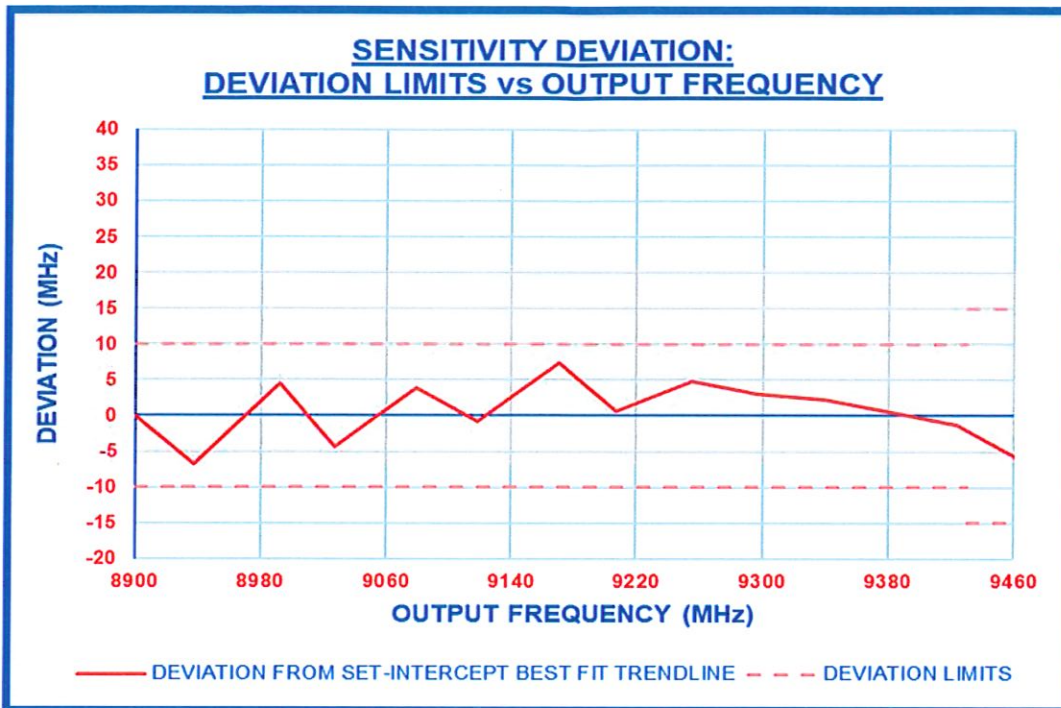




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SENSITIVITY DEVIATION

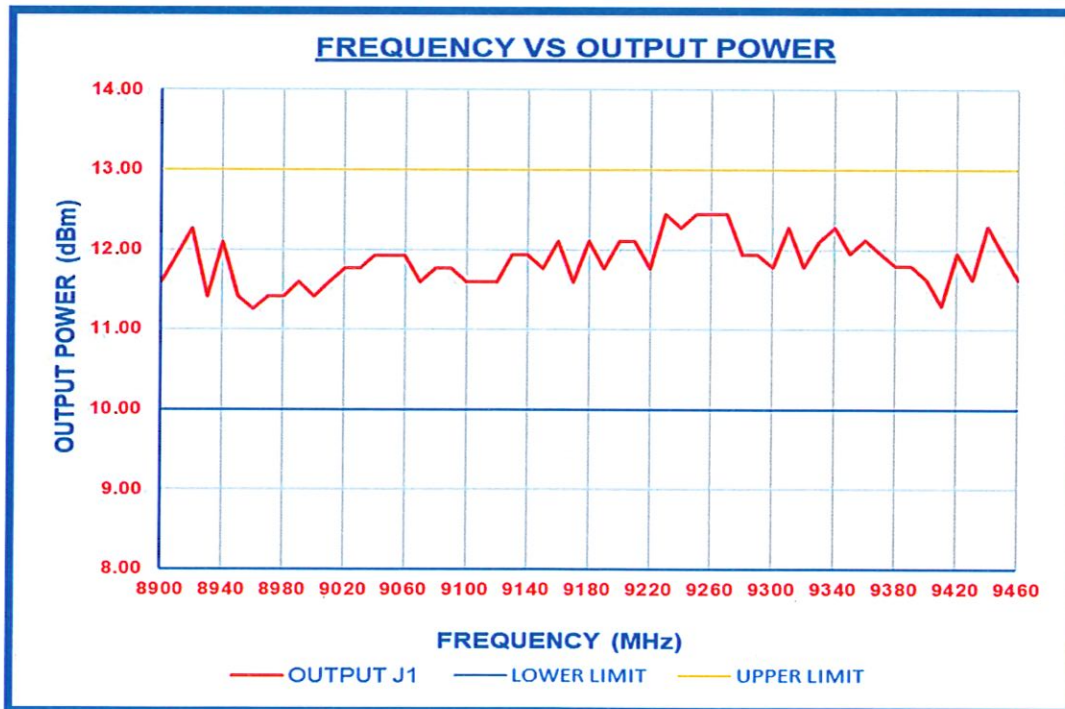
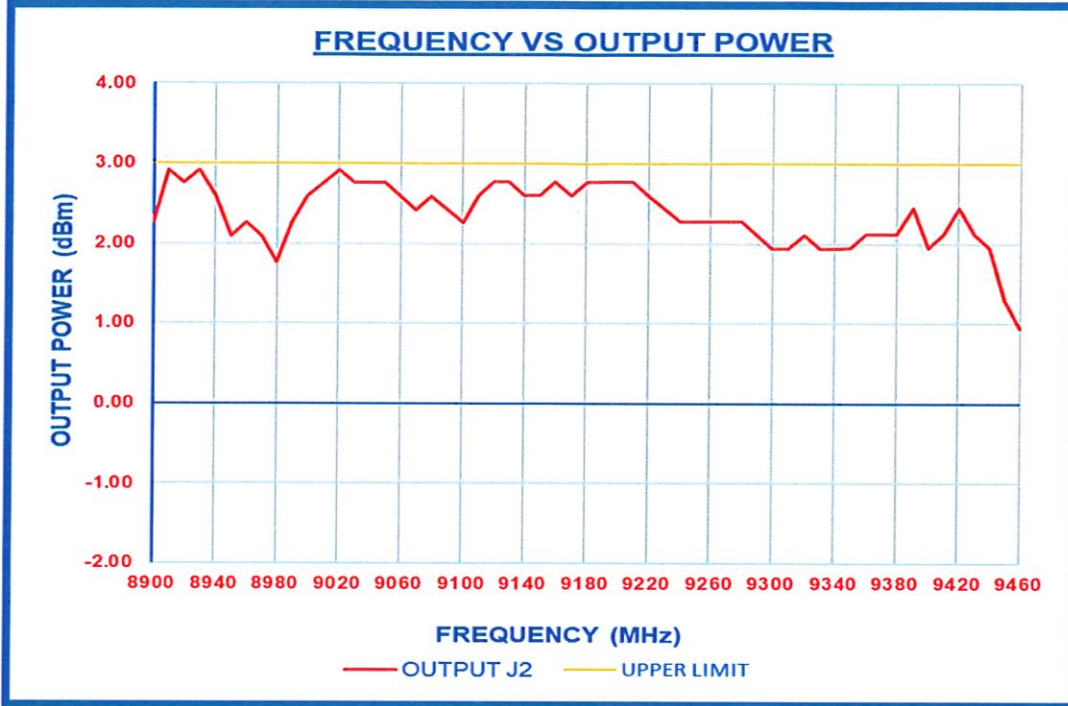




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OUTPUT POWER @ +25 DEGREES C



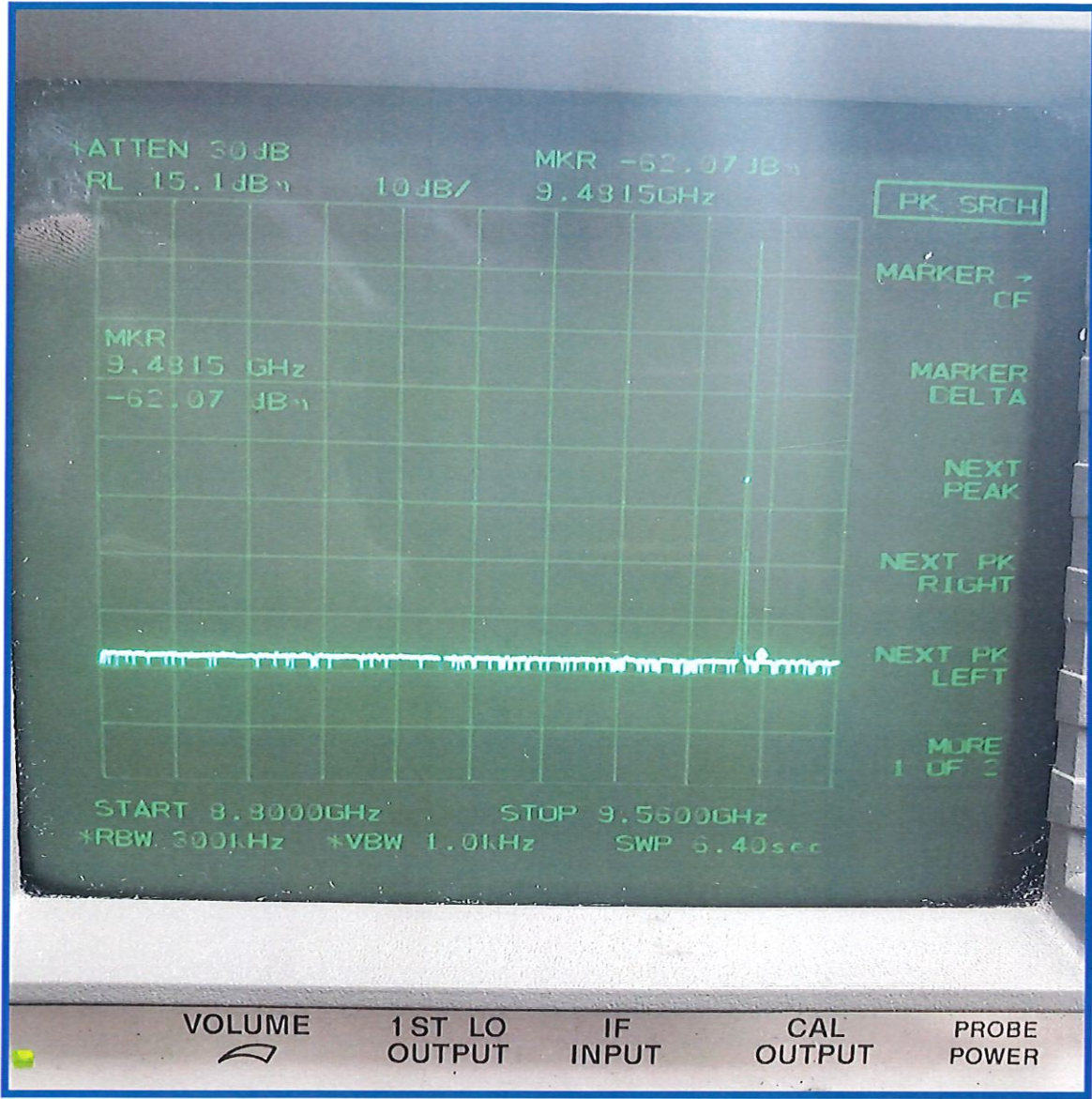


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SPURIOUS SIGNALS @ 10 dB OUTPUT

IN BAND

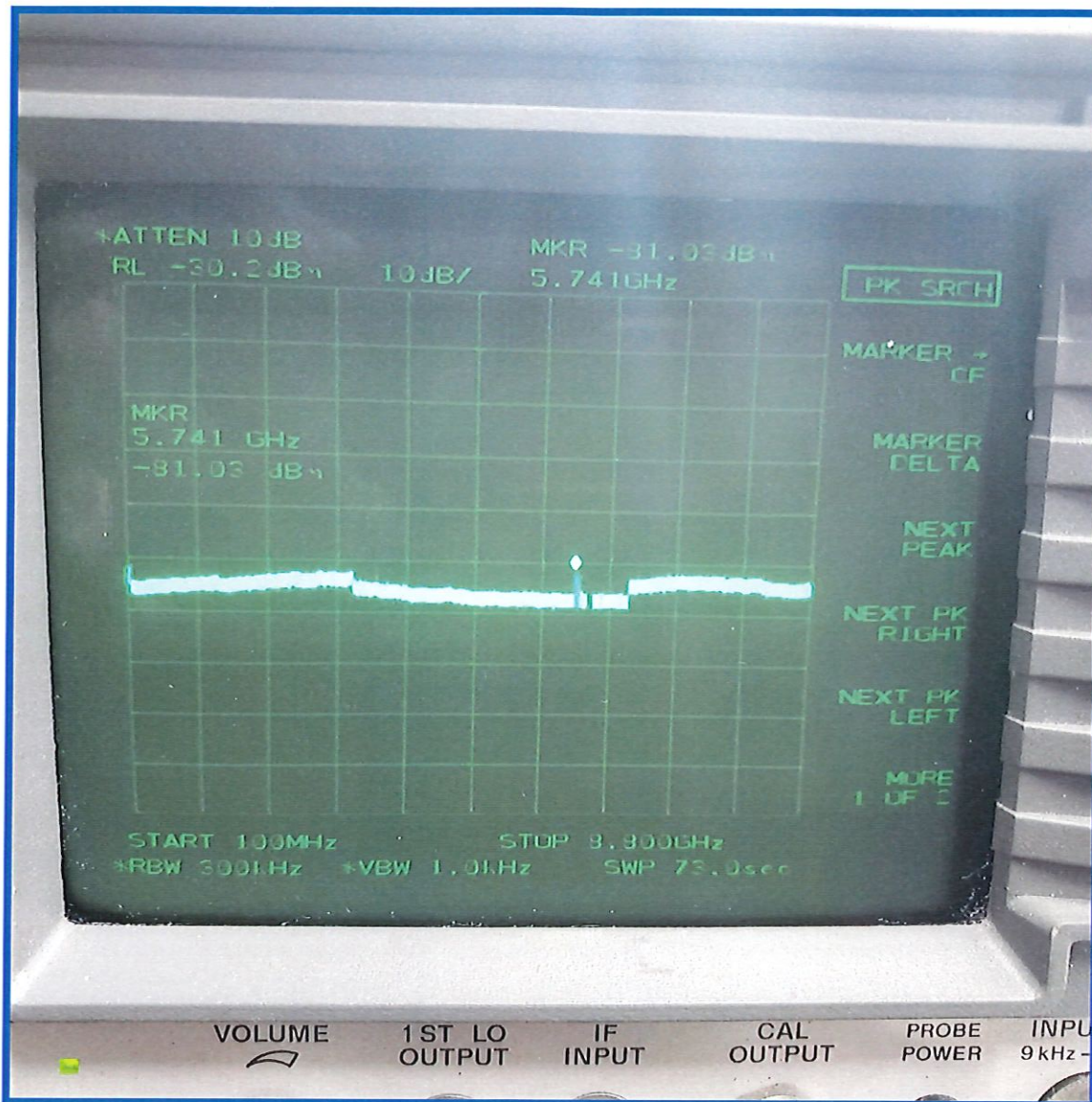




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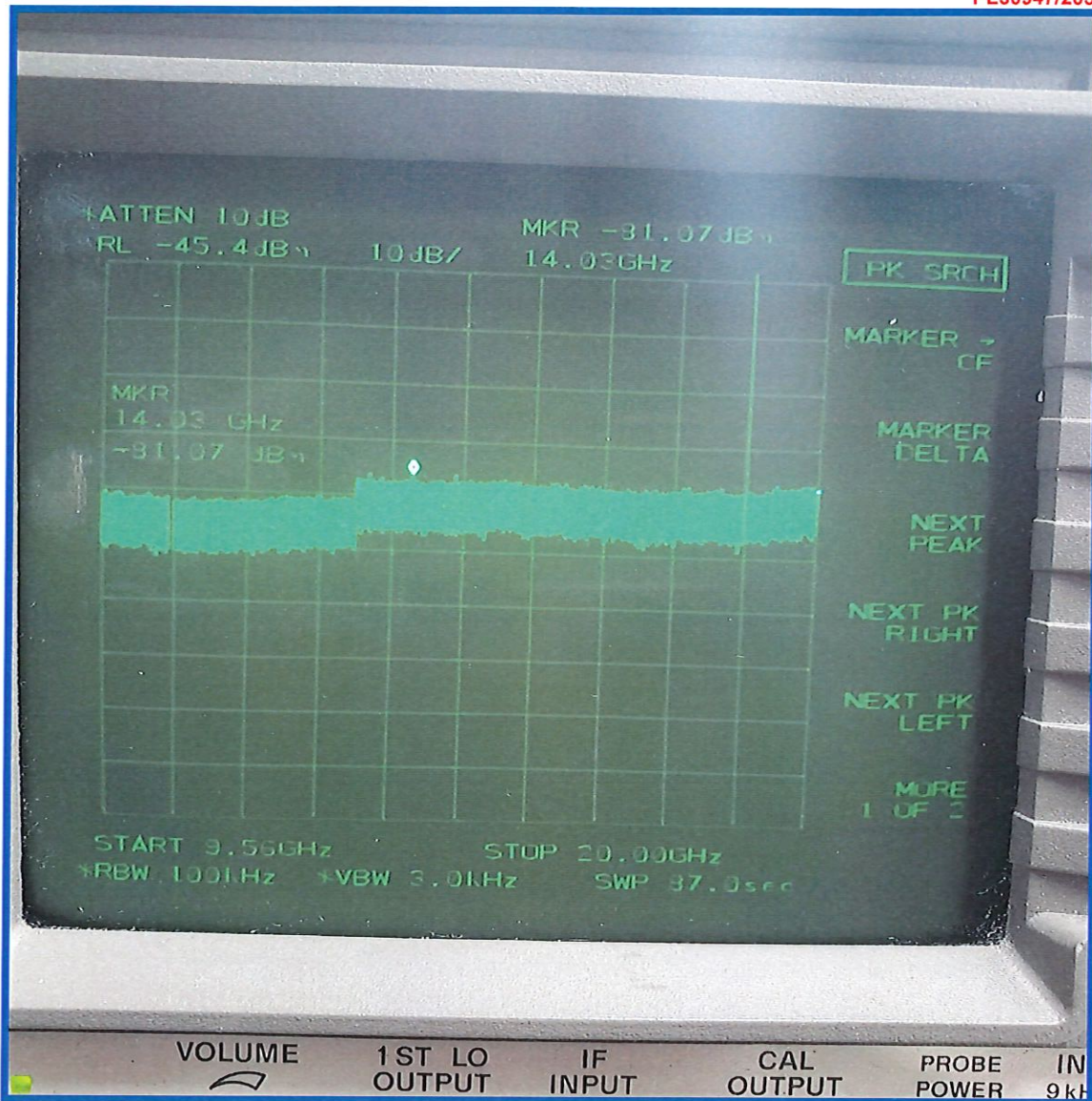
OUT OF BAND





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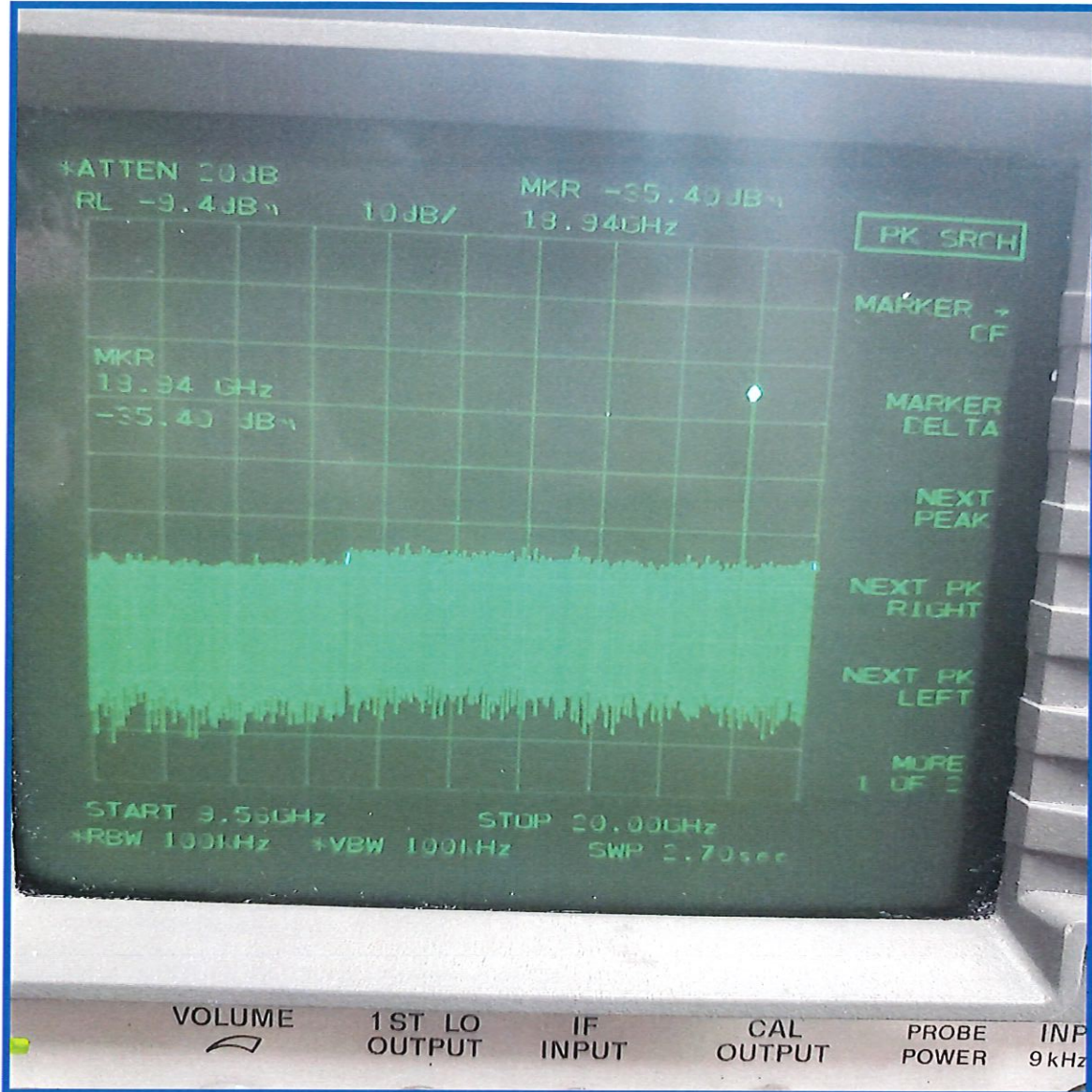




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HARMONICS





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