



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

Customer: \_\_\_\_\_ Tested By: Sebastian Palacio  
 SO No: \_\_\_\_\_ Temperature: +25°C  
 Model No: PMTO-8R8G9R56G-CD-1 Date: 2/25/2020  
 Serial No: PL25587/1920 Drawing No: 27631550 Rev: A2

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) 8.8 TO 9.56 GHz (Tuning @ +50 Deg C) 8.9 TO 9.46 GHz (Specifications)	
2	Tuning Sensitivity	65 MHz/360° MIN 80 MHz/360° MAX	<b>80.807 MHz/360°</b> <b>81.119 MHz/360° (Set Intercept)</b> See Graphs	APPROVED by LMCO
3	Output Frequency vs Tuner Rotation	±10 MHz (8.90 to 8.93 GHz) ±5 MHz (8.93 to 9.43 GHz) ±10 MHz (9.43 to 9.46 GHz)	-3.4 MHz (8.90 to 8.93 GHz) -6.3 MHz (8.93 to 9.43 GHz) <b>+15.8 MHz (9.43 to 9.46 GHz)</b> See Graphs	APPROVED by LMCO
4	Power Output (Any Frequency)	J1: +10 (+3, -0) dBm J2: 0 (+3, -0) dBm	@ +25 Deg C 11.81 to <b>13.48</b> dBm 0.55 to 2.48 dBm @ +50 Deg C 11.61 to <b>13.41</b> dBm 2.06 to <b>3.23</b> dBm See Graphs	APPROVED by LMCO
5	Tuning Element	Starting Torque: 25 inch-oz MAX Withstanding Torque: 100 inch-oz MIN	PASS	PMI QA 1
6	Spurious Harmonic Signals	60 dBc MIN (IN BAND) 45 dBc MIN (OUT OF BAND) 30 dBc MIN (HARMONICS)	> 66.94 dBc > 60.57 dBc > 44.51 dBc	PMI QA 1
7	Noise	See Plots Below	PASS	PMI QA 1
8	Temperature Coefficient	15 kHz/°C MAX from 0°C to +50°C	<b>55 kHz/°C FROM 0 °C TO 40 °C</b> <b>800 kHz/°C FROM 40 °C TO 50 °C</b>	APPROVED by LMCO
9	Long Term Frequency Drift	50 kHz/hr MAX @ any constant temperature from 0°C to +50°C	PASS	PMI QA 1
10	Pulling Factor	<50 kHz	PASS	PMI QA 1
11	Regulator/Oscillator Power Supply	+24±1 VDC @ 1.5 A MAX 2% Regulation, Ripple = 2 mVrms	+24±1 @ 0.172 A	PMI QA 1
12	Heater Power Supply	+24±1 VDC @ 1.5 A MAX 2% Regulation, Ripple = 50 mVrms	+24±1 @ 1.16 A	PMI QA 1
13	Weight	2.4 lbs MAX	<b>3 lbs</b>	APPROVED by LMCO

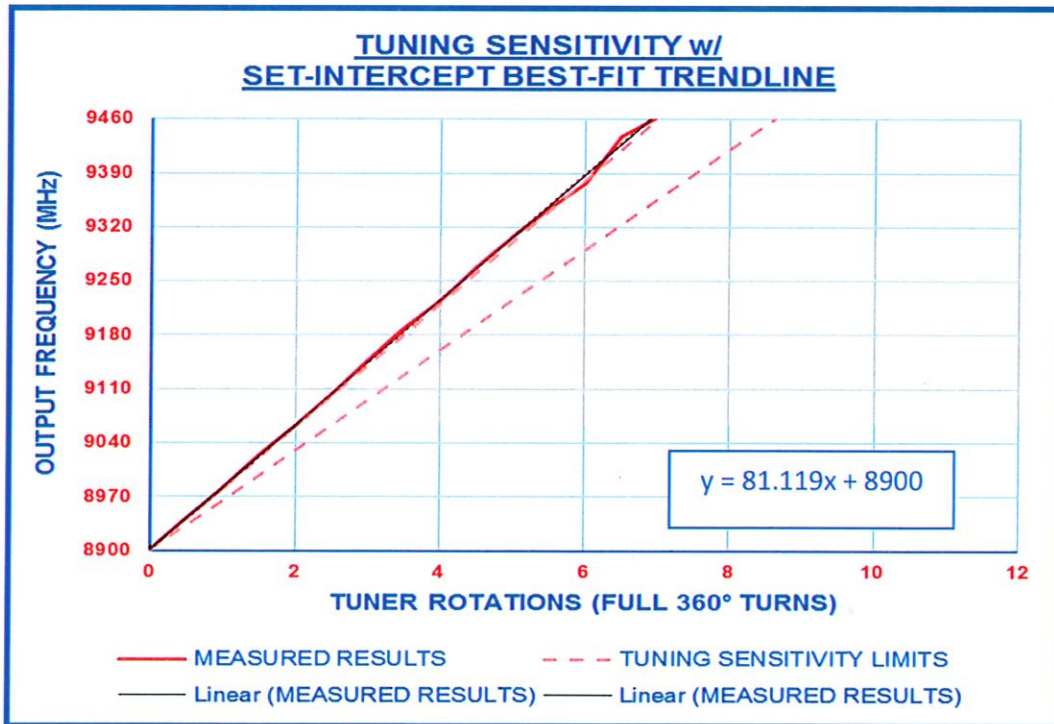
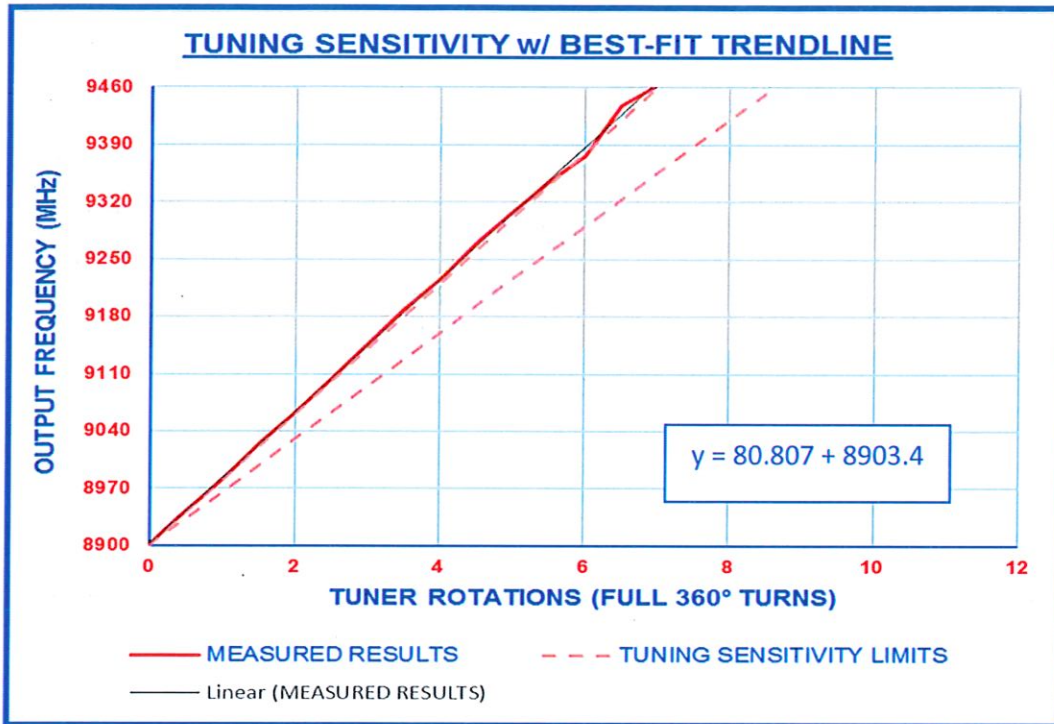
QA/QC Approval:  PMI QA 1 Date: 2/26/20

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



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**TUNING SENSITIVITY**

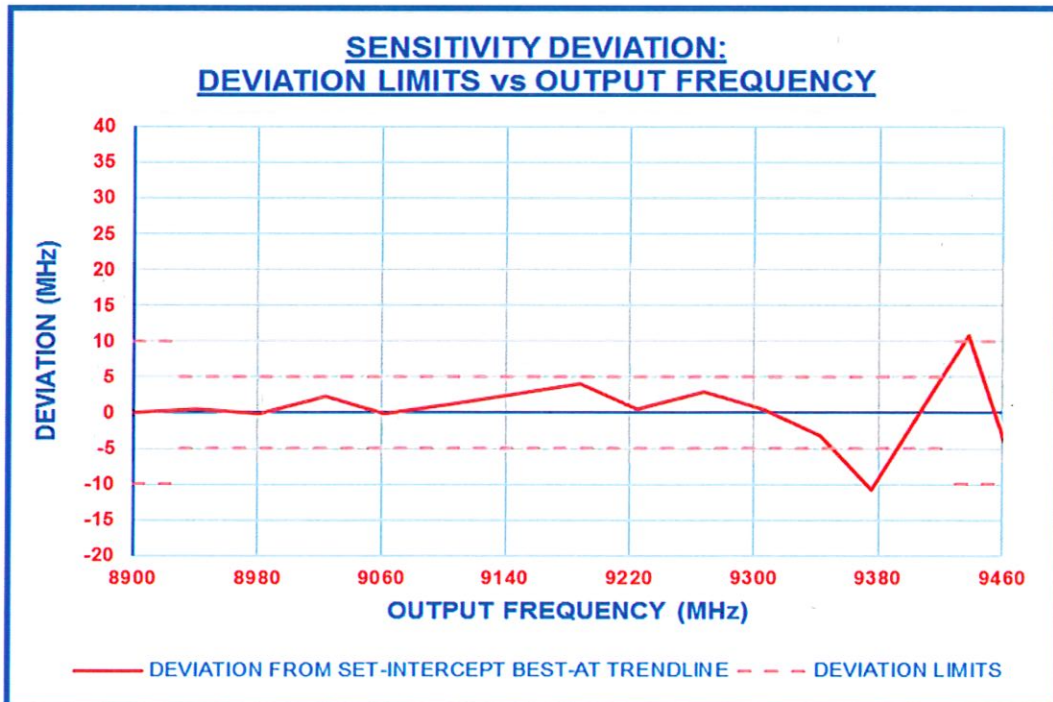
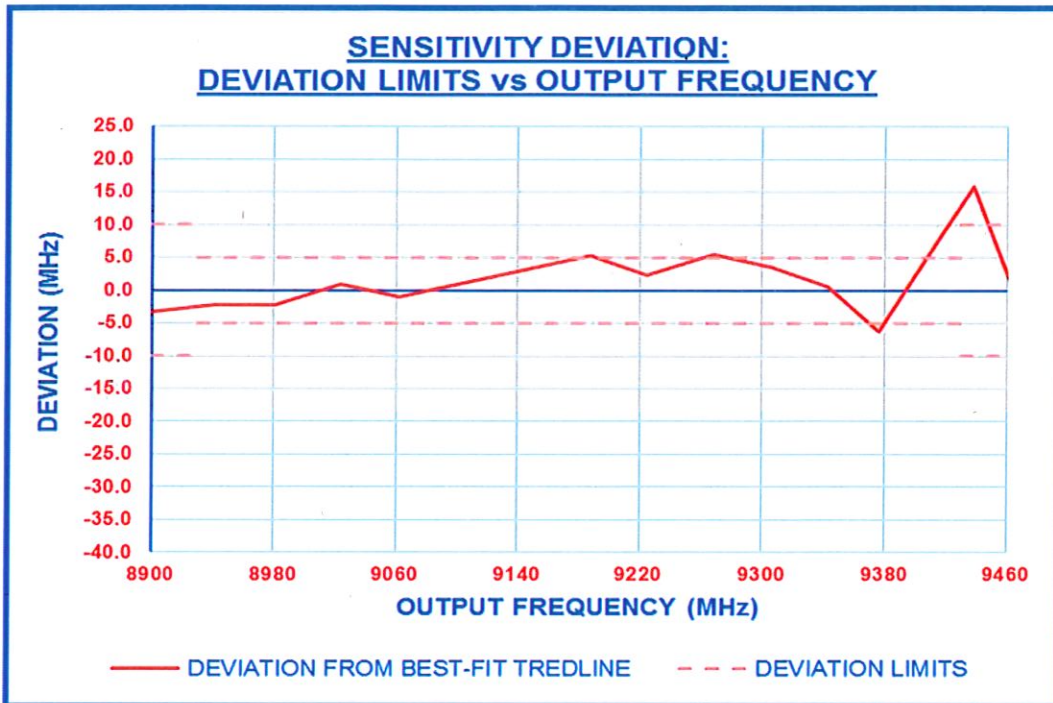






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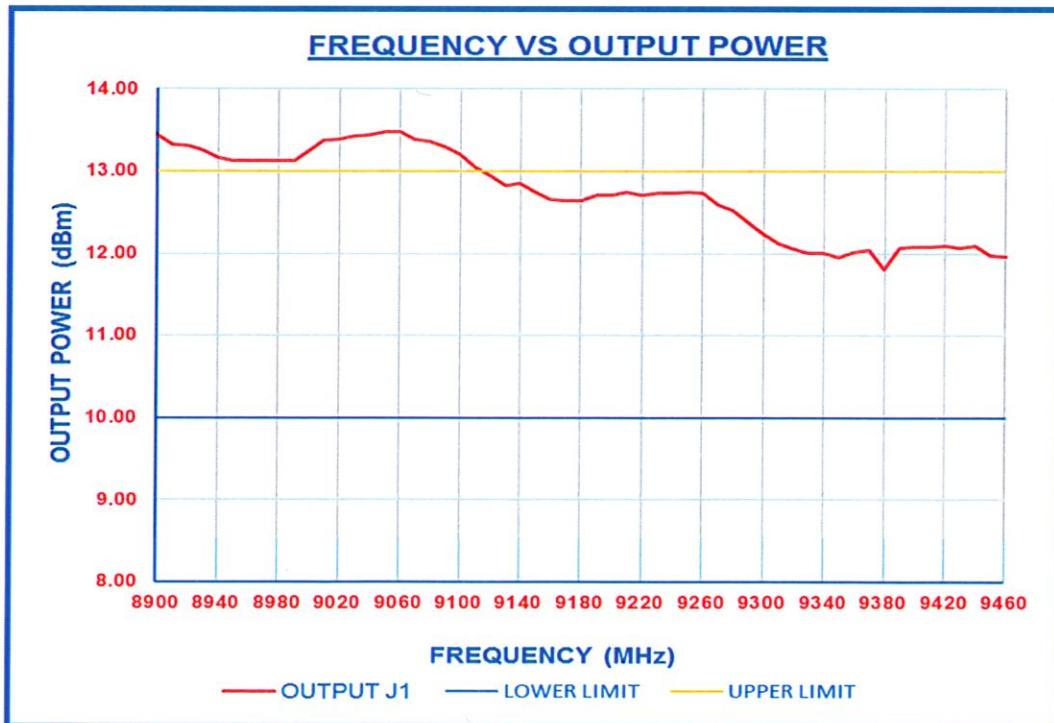
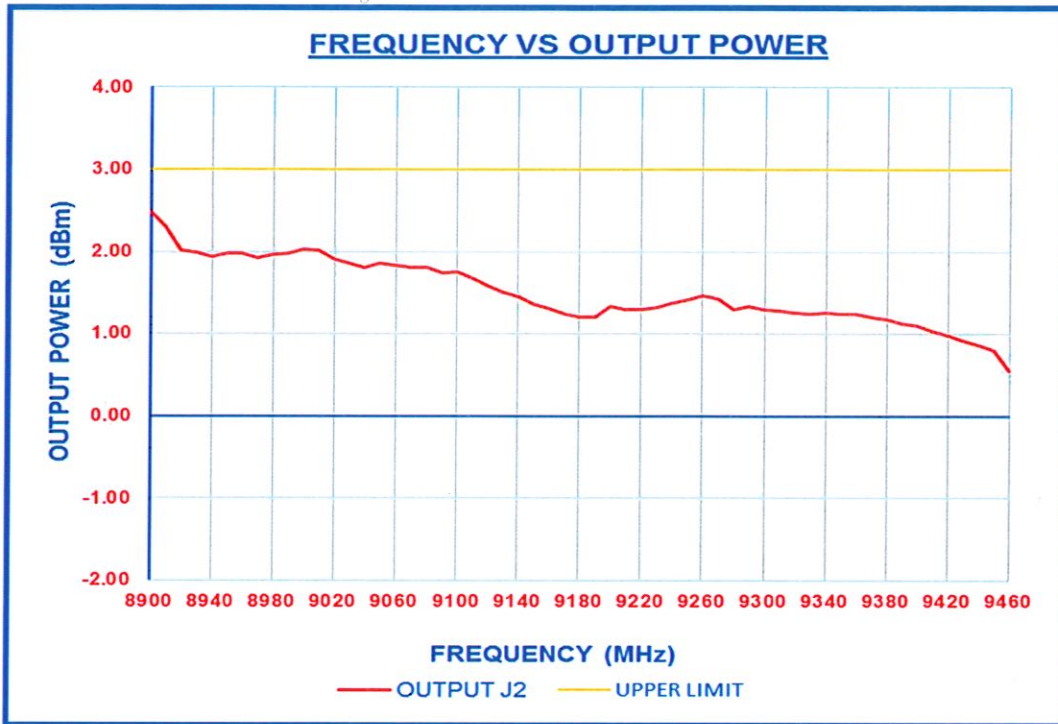
**SENSITIVITY DEVIATION**





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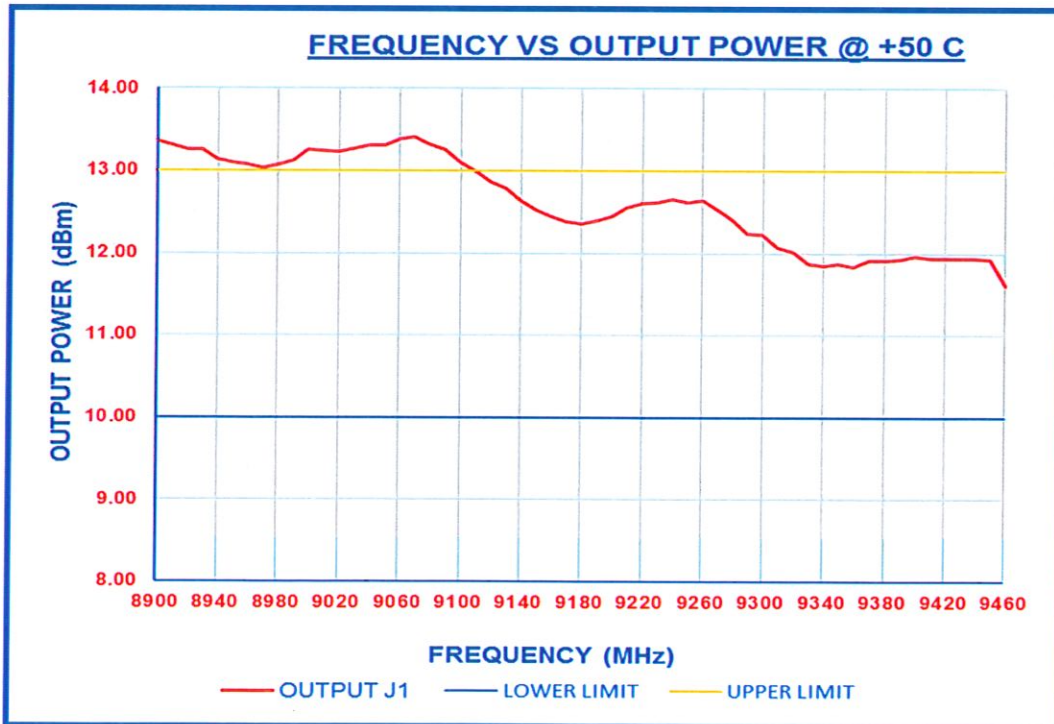
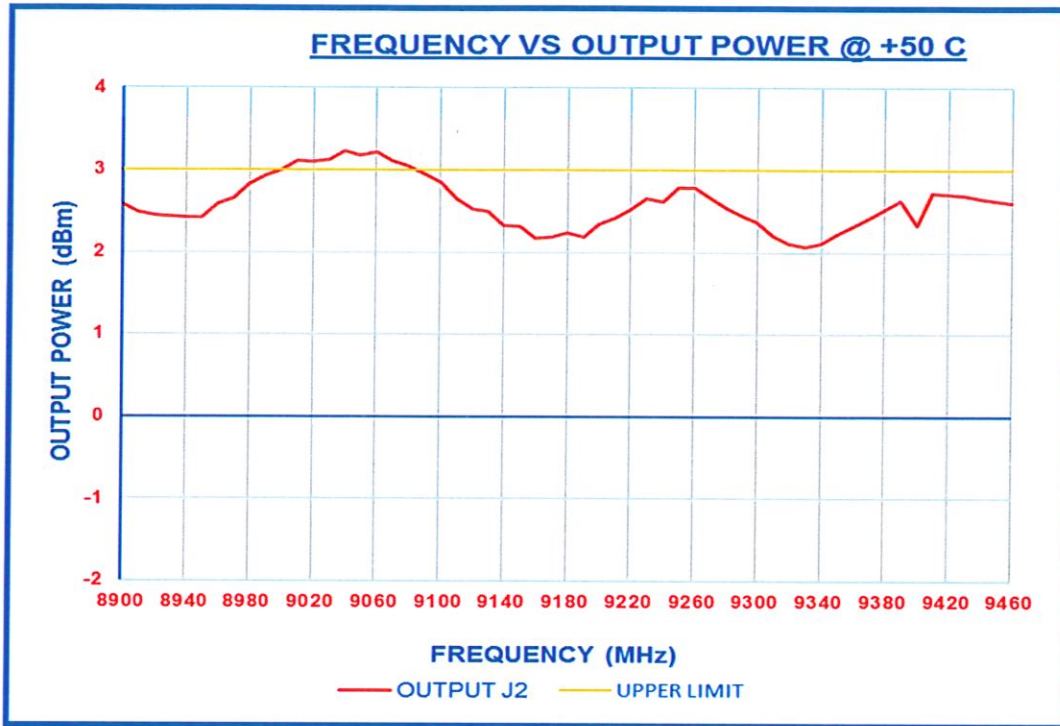
**OUTPUT POWER @ +25 DEGREES C**





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**OUTPUT POWER @ +50 DEGREES C**

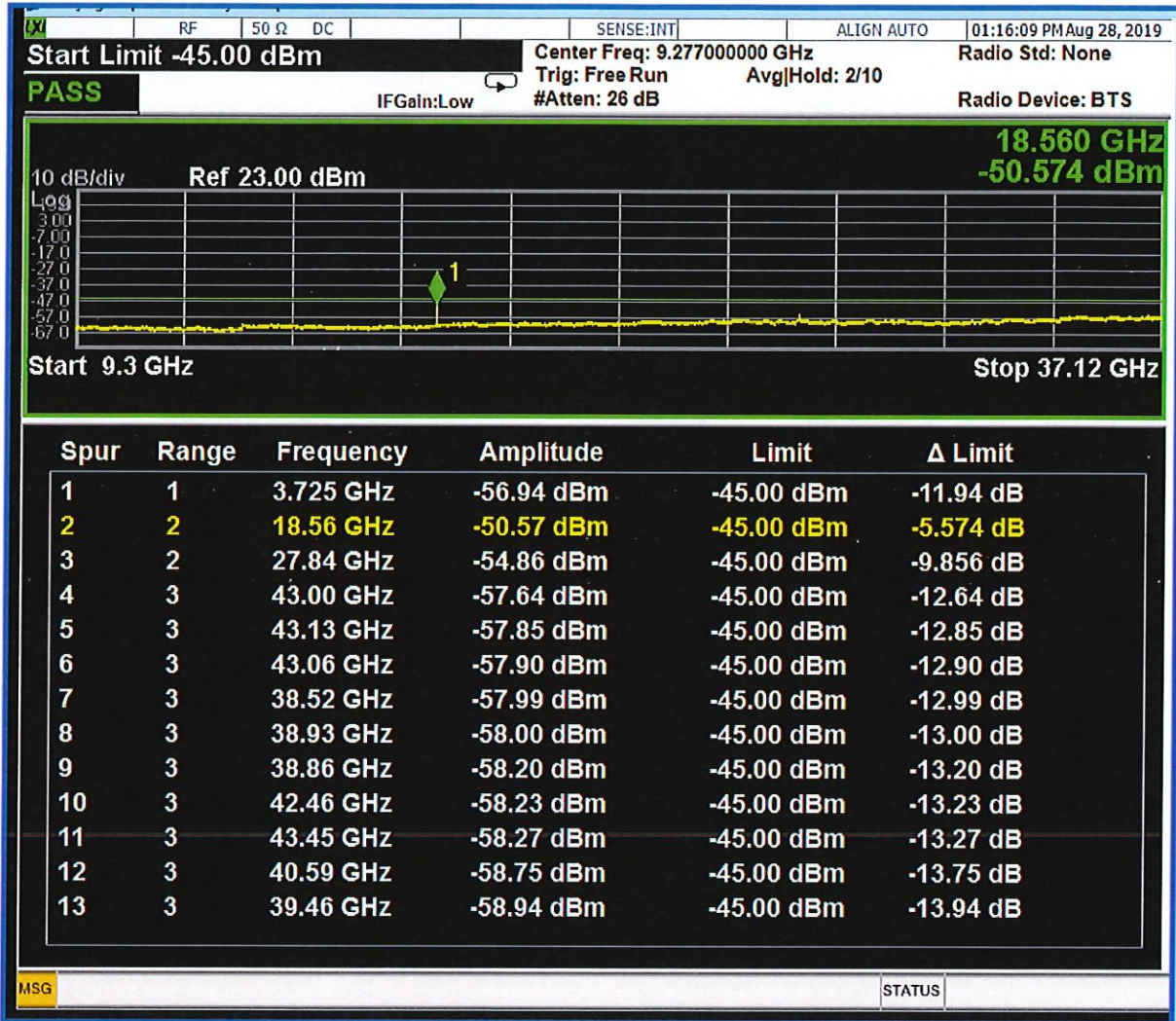






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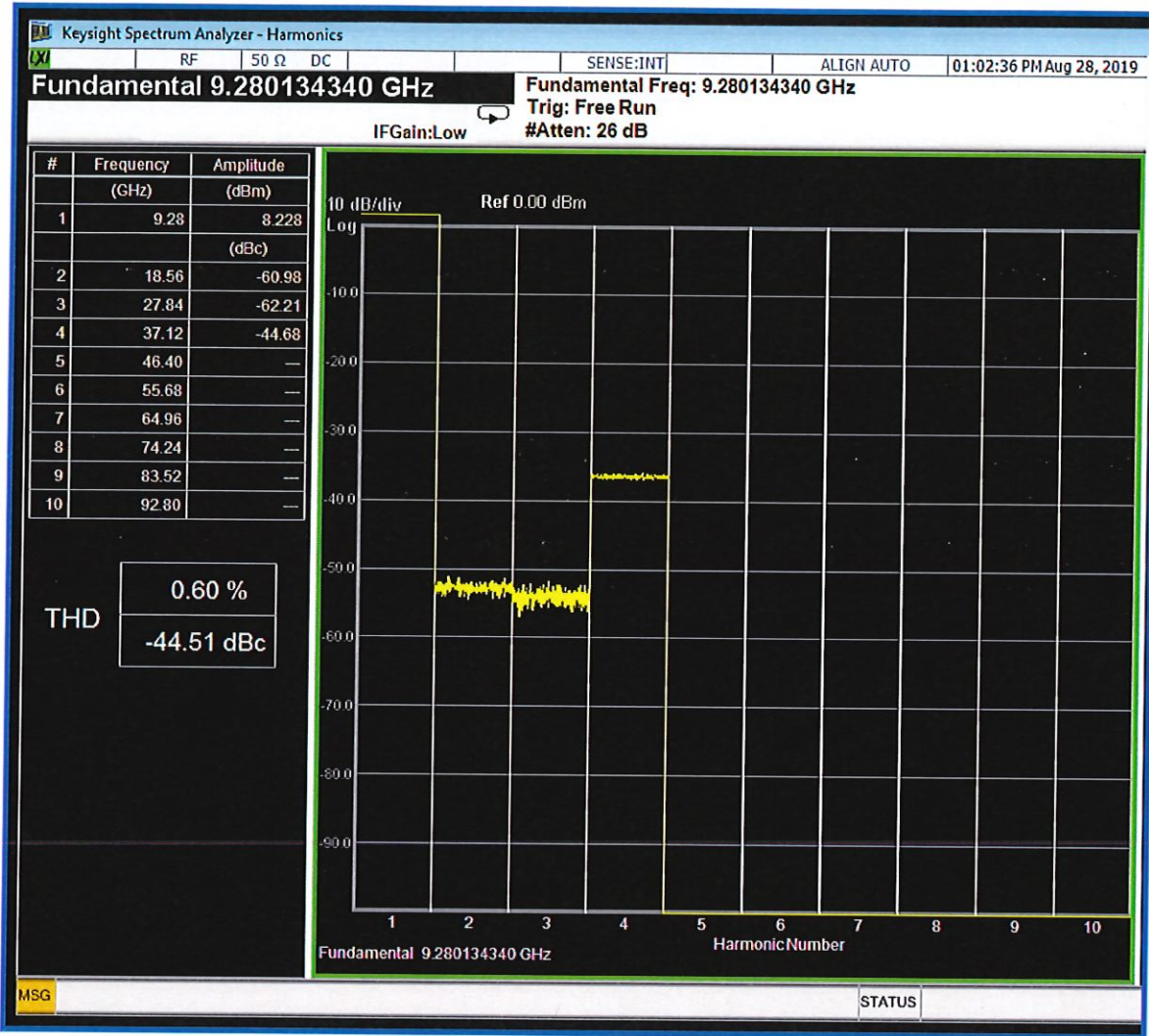
**SPURIOUS SIGNALS @ 10 dB OUTPUT**





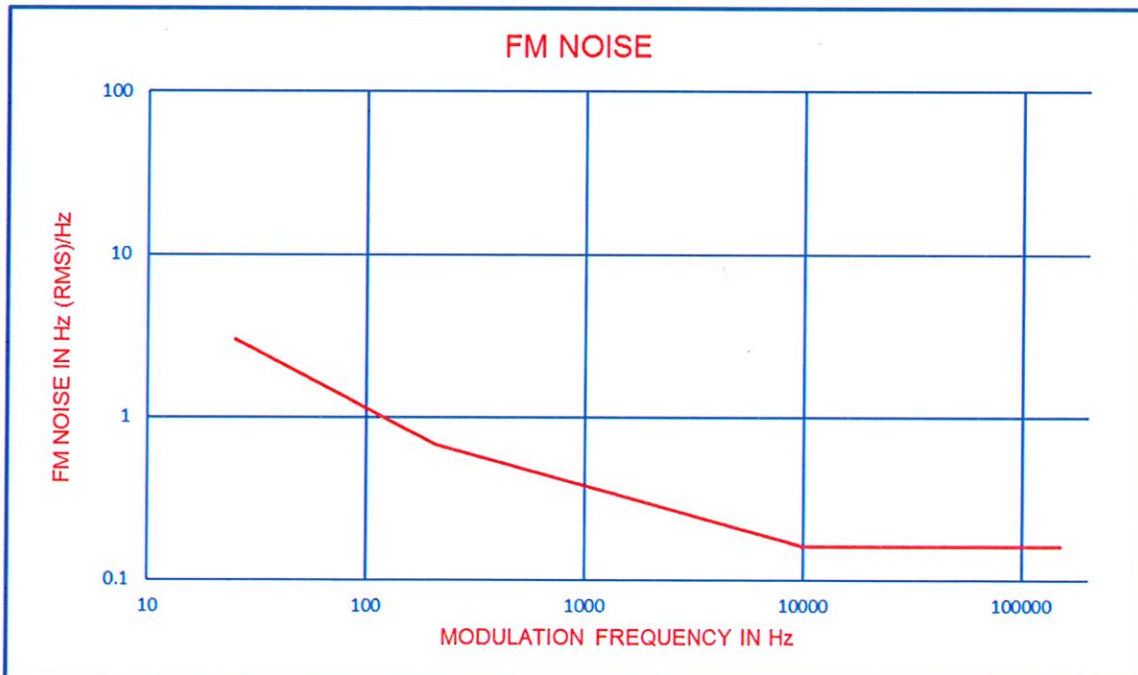
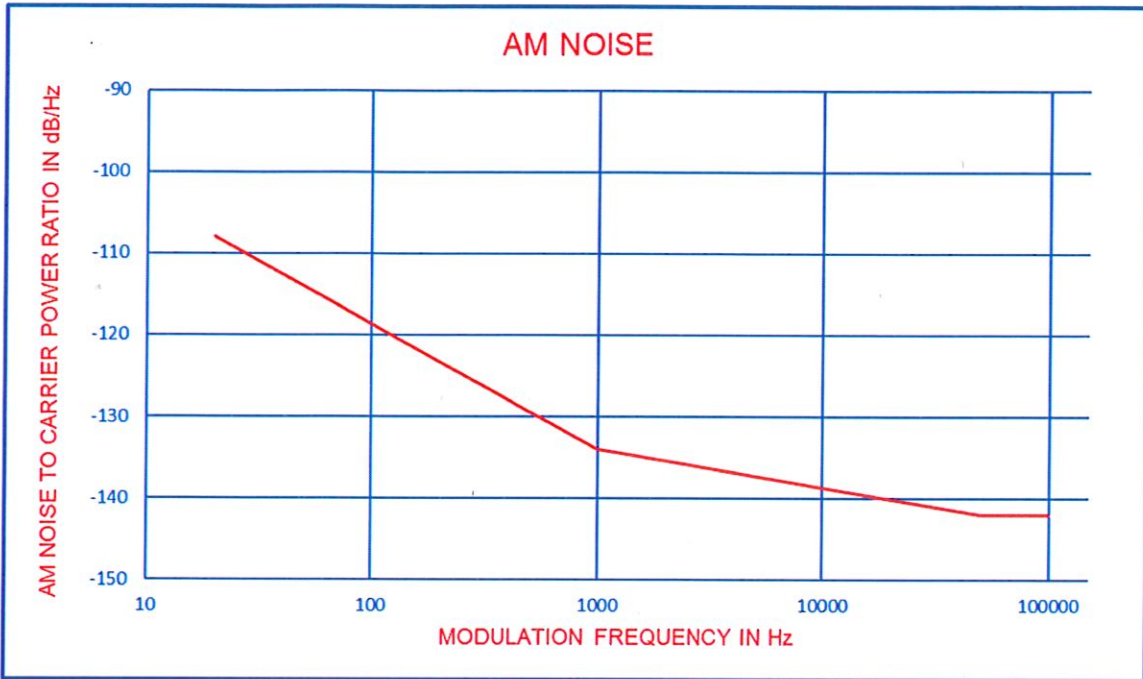
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**HARMONIC PERFORMANCE**





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