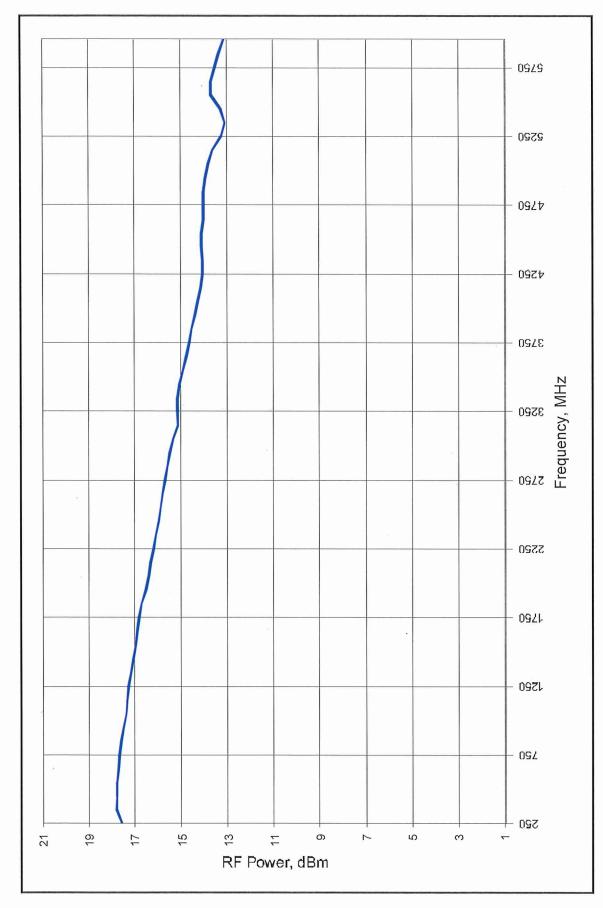
Serial Number: 0026		
Model Number: MLMS-0260B		
Time: 2:16:38 PM		
Date: 11/7/2017		
Minimum Frequency: 250.000 MHz		
Maximum Frequency: 6000.000 MHz Frequency Step Size: 0.001 MHz		
External 100 MHz PLL Reference Frequency: 1	0.0 MHz	
Maximum RF Level (Min.): 11.0 dBm	0.0 11111	
Maximum RF Level (Max.): 20.0 dBm		
Minimum Operating Temperature: 0 Degrees C.		
Maximum Operating Temperature: 60 Degrees C	•	
MLMS Firmware Version: 2.0 Sep 2 2016		
MLWI Sales Order #: 21-0000 MLWI Outline Drawing #: 211-001 A		
muwi Outline Drawing #: 211-001 A		
Final Test Data Check Point Status:		
Config data file backup =	Pass	
Coarse Cal file =	Pass	
Fine Cal file = Xtal Oscillator Cal file =	Pass	
xtal Oscillator Cal file = Frequency Lock test file =	Pass Pass	
RF Max Power test file =	Pass	
Harmonics test file =	Pass	
Random Spur test file =	Pass	
Switching Speed test file =	Pass	
Phase Noise test file =	Pass	
NOVO Locked = Unit Health =	Pass	
Xtal SN Exists =	Pass Pass	
Last Self Test =	Pass	
Full Cal Status =	Pass	
Coarse Cal =	Pass	
Fine Cal =	Pass	
PLL Locked Status =	Pass	
MLWI Job # = MLWI Drawing # =	Pass	
Current Self Test Run =	Pass Pass	
odilono boli lobo Nan -	1455	
Pass - Unit is Ready to Ship		
Label unit per outline drawing listed above		
Fill out all paperwork and submit to QA for Copy all paperwork to include in shipping b		
topi all papernorm to include in building b	ou.	
SHIPPING CHECKLIST:		Check be
1. Labeled unit with SMA connector protecto	rs installed	
2. USB cable (1 per unit) 3. MLMS support CD Rom (1 per lot)		
4. J1 mating connector (1 per unit)		
5. J1 connector pins (9 per unit)		
6. MLMS quick start guide (1 per lot)		****
7. Copy of completed C of C		
8. Copy of test data packet (1 per unit)		
9. Copy of outline drawing (1 per unit)	1+1	
10. Copy of completed Packing list (1 per u	nic)	
Notes:		
Place labeled unit into anti-static pouch.		
Place CD and USB cables in a separate		
large anti-static pouch. Staple bags with J1 mating items to paperwo	rk	
Box and ship product.	A 5h 6	
Initials: Dat	e ·	

```
***** Frequency Lock Test from 250.000 MHz to 6000.000 MHz in 10 MHz Steps *****
Serial Number: 0026
Model Number: MLMS-0260B
Time: 1:53:01 PM
Date: 11/7/2017
Minimum Frequency: 250.000 MHz
Maximum Frequency: 6000.000 MHz
Temperature: +33.5C Deg. C
NOVO State: UnLocked
Power Supply Spec: +5.0 VDC +/- 0.25 V @ < 550 mA
Power Supply Spec: +15.0 VDC +/- 0.50 V @ < 350 mA
Accuracy Tested to: +/-0.002 MHz
Begin Frequency Lock Test from 250,000 MHz to 6000,000 MHz in 10 MHz Steps
Total Frequency Errors: 0
Finish Time: 1:53:31 PM
Begin Random Frequency Lock Test from 250.000 MHz to 6000.000 MHz (1000 Frequencies)
Total Ramdom Frequency Errors: 0
Finish Time: 1:54:40 PM
Internal Power Supply Voltage Readings:
+2.5V = +2.5V Pass
+3.3V = +3.3V Pass
+5.0V = +5.1V Pass
-5.0V = -5.0V Pass
+6.75V = +6.7V Pass
+13.5V = +13.4V Pass
100 MHz PLL V = +1.6V Pass
YIG PLL V = +7.0V Pass
External Power Supply Voltage and Current Readings:
+5.0 VDC Voltage = 5.002V Pass
+5.0 VDC Current = 519mA Pass
+15.0 VDC Voltage = 14.994V Pass
+15.0 VDC Current = 270mA Pass
Finish Time: 1:54:41 PM
```

Total Errors: 0

Maximum RF Output Power vs. Frequency



Model Number: MLMS-0260B Serial Number: 0026 Time: 4:26:19 PM Date: 11/6/2017

Minimum Frequency: 250.000000 MHz
Maximum Frequency: 6000.000000 MHz
Current Unit Temperature: +37.0C Deg. C
Harmonic Spec Level (In Band): -8.0 dBc

Frequ	uency	Level	L	н	arm	#	Status
250	MHz	-10	dBc	3			PASS
350	MHz	-10	dBc	3			PASS
450	MHz	-11	dBc	3			PASS
550	MHz	-11	dBc	3			PASS
650	MHz	-11	dBc	3			PASS
750	MHz	-11	dBc	3			PASS
850	MHz	-12	dBc	3			PASS
950	MHz	-12	đBc	3			PASS
1050	MHz	-12	dBc	3			PASS
1150	MHz	-12	dBc	3			PASS
1250	MHz	-12	dBc	3			PASS
1350	MHz	-12	dBc	3			PASS
1450	MHz	-13	dBc	3			PASS
1550	MHz	-13	dBc	3			PASS
1650	MHz	-14	dBc	3			PASS
1750	MHz	-14	dBc	3			PASS
1850	MHz	-14	dBc	3			PASS
1950	MHz	-16 -	dBc	3			PASS
2050	MHz	-17	dBc	2			PASS
2150	MHz	-16	dBc	2			PASS
2250	MHz	-15	dBc	2			PASS
2350	MHz	-15	dBc	2			PASS
2450	MHz	-16	dBc	2			PASS
2550	MHz	-17	dBc	2			PASS
2650		-18	dBc	2			PASS
2750	MHz	-16	dBc	2			PASS
2850	MHz	-16	dBc	2			PASS
2950		-16	đВс	2			PASS
3050		-16	dBc	2			PASS
3150		-15	dBc	2			PASS
3250		-16	dBc	2			PASS
3350		-16	dBc	2			PASS
3450		-17	dBc	2			PASS
3550		-16	dBc	2			PASS
3650		-16	dBc	2			PASS
3750		-16	dBc	2			PASS
3850		-15	dBc	2 2			PASS
3950 4050		-15 -16	dBc dBc	2			PASS PASS
4150		-19	dBc	2			PASS
4250		-21	dBc	2			PASS
4350		-23	dBc	3			PASS
4450		-24	dBc	3			PASS
4550		-24	dBc	3			PASS
4650		-25	dBc	3			PASS
4750		-26	dBc	3			PASS
4850		-26	dBc	2			PASS
4950		-24	dBc	2			PASS
5050		-23	dBc	2			PASS
5150		-22	dBc	2			PASS
5250		-23	dBc	2			PASS
5350		-24	dBc	2			PASS
5450		-24	dBc	2	}		PASS
5550		-25	dBc	2	}		PASS
5650	MHz	-26	dBc	2	?		PASS
5750	MHz	-29	dBc	3	3		PASS
5850		-28	dBc	3			PASS
5950	MHz	-27	dBc	3	3		PASS

Number of Failures: 0

Finish Time: 4:35:47 PM

Harmonic Readings complete

**** Random Spur Test from 250.000 MHz to 6000.000 MHz ****

Serial Number: 0026 Model Number: MLMS-0260B

Time: 11:30:18 AM Date: 11/7/2017

Minimum Frequency: 250.000 MHz Maximum Frequency: 6000.000 MHz

Analyzer Frequency Span Tested: 2 kHz to 2000 MHz - or Max span = 1.9 * CF if <=1000 MHz

Spur Level Spec <=: -60.0 dBc Number of Frequencies Tested: 25 Temperature: +34.6C Deg. C

NOVO State: UnLocked

Random Frequency Frequency Tested = 1770.480 MHz Frequency Tested = 4875.869 MHz Frequency Tested = 3834.926 MHz Frequency Tested = 3654.105 MHz Frequency Tested = 656.777 MHz Frequency Tested = 2675.796 MHz Frequency Tested = 665.833 MHz Frequency Tested = 1603.312 MHz Frequency Tested = 2755.919 MHz Frequency Tested = 5256.194 MHz Frequency Tested = 1657.408 MHz Frequency Tested = 3654.042 MHz Frequency Tested = 4628.856 MHz Frequency Tested = 3012.377 MHz Frequency Tested = 3789.622 MHz Frequency Tested = 5597.647 MHz

Status Pass Pass

> Pass Pass

Pass

Pass Pass

Pass

Pass Pass

Pass

Frequency Tested = 2948.771 MHz Frequency Tested = 5970.509 MHz Frequency Tested = 3289.172 MHz Frequency Tested = 4671.303 MHz Frequency Tested = 2144.749 MHz Frequency Tested = 1790.897 MHz

Frequency Tested = 4884.468 MHz Frequency Tested = 4996.254 MHz Frequency Tested = 3929.910 MHz

Total Spur Errors: 0

Finish Time: 12:02:40 PM

Test Completed

Model Number: MLMS-0260B Serial Number: 0026 Time: 11:19:54 AM Date: 11/7/2017

Minimum Frequency: 250.000 MHz Maximum Frequency: 6000.000 MHz

Current Unit Temperature: +33.4C Deg. C

Switching Speed Spec:

For a 100 MHz Step: 1.0 mS (Frequencies <500 MHZ = 2.0 mS)

For a 1000 MHz Step: 2.0 mS For a Full Band Step: 3.0 mS

For 25 Random Jumps - Max Time Range: 1.0 to 3.0 mS

Frequency Step	Meas. Speed	Status	
100 MHz Step Up = 100 MHz Step Down =	0.7 mS 0.7 mS	Pass Pass	
1000 MHz Step Up = 1000 MHz Step Down =	0.7 mS 0.7 mS	Pass Pass	
Full band Step Up = Full band Step Down =	1.7 mS 0.8 mS	Pass Pass	

Frequency Step (MHz)	Step Size (MHz)	Meas. Speed	Status
Random Jump From 250.0 To 1568.0	1318.0	0.8 mS	Pass
Random Jump From 1568.0 To 3435.0	1867.0	0.8 mS	Pass
Random Jump From 3435.0 To 2547.0	-888.0	0.8 mS	Pass
Random Jump From 2547.0 To 5815.0	3268.0	2.0 mS	Pass
Random Jump From 5815.0 To 3866.0	-1949.0	1.1 mS	Pass
Random Jump From 3866.0 To 2827.0	-1039.0	0.8 mS	Pass
Random Jump From 2827.0 To 1329.0	-1498.0	0.8 mS	Pass
Random Jump From 1329.0 To 5447.0	4118.0	1.6 mS	Pass
Random Jump From 5447.0 To 2645.0	-2802.0	0.9 mS	Pass
Random Jump From 2645.0 To 3576.0	931.0	0.9 mS	Pass
Random Jump From 3576.0 To 4498.0	922.0	1.3 mS	Pass
Random Jump From 4498.0 To 5994.0	1496.0	1.1 mS	Pass
Random Jump From 5994.0 To 1963.0	-4031.0	0.9 mS	Pass
Random Jump From 1963.0 To 2367.0	404.0	0.7 mS	Pass
Random Jump From 2367.0 To 3248.0	881.0	0.9 mS	Pass
Random Jump From 3248.0 To 4469.0	1221.0	1.3 mS	Pass
Random Jump From 4469.0 To 1035.0	-3434.0	0.8 mS	Pass
Random Jump From 1035.0 To 3872.0	2837.0	0.9 mS	Pass
Random Jump From 3872.0 To 3931.0	59.0	0.8 mS	Pass
Random Jump From 3931.0 To 5697.0	1766.0	1.9 mS	Pass
Random Jump From 5697.0 To 5435.0	-262.0	1.6 mS	Pass
Random Jump From 5435.0 To 4140.0	-1295.0	1.1 mS	Pass
Random Jump From 4140.0 To 5039.0	899.0	1.1 mS	Pass
Random Jump From 5039.0 To 4735.0	-304.0	1.0 mS	Pass
Random Jump From 4735.0 To 837.0	-3898.0	0.9 mS	Pass

Number of Failures: 0

Finish Time: 11:28:07 AM

Switching Speed Readings complete

***** Phase Noise Test from 250.000 MHz to 6000.000 MHz in 575 MHz Steps *****

Model Number: MLMS-0260B Serial Number: 0026 Time: 10:35:38 AM Date: 11/7/2017

Minimum Frequency: 250.000 MHz Maximum Frequency: 6000.000 MHz Number of Frequencies Tested: 11 Current Unit Temperature: +31.6C Deg. C

Phase Noise Spec @ Offset:

@ 100 Hz = -74.0 dBc/Hz

@ 1.0 kHz = -94.0 dBc/Hz @ 10.0 kHz = -96.0 dBc/Hz

@ 100 kHz = -119.0 dBc/Hz

@ 1.0 MHz = -144.0 dBc/Hz @ 10.0 MHz = -150 dBc/Hz

Correlation = 1

Measured:

measureu.								
Frequency	100 Hz	1 kHz	10 kHz	100 kHz	1 MHz	10 MHz	Status	RF Power
250.000	-105.3	-123.1	-123.6	-137.1	-157.6	-159.4	Pass	13.79 dBm
825.000	-97.5	-113.6	-115.6	-135.5	-155.3	-157.4	Pass	13.43 dBm
1400.000	-92.3	-108.4	-109.4	-126.5	-150.1	-156.5	Pass	11.12 dBm
1975.001	-89.5	-106.4	-109.0	-131.0	-152.4	-155.0	Pass	11.24 dBm
2550.001	-88.2	-103.1	-104.5	-121.5	-145.5	-154.0	Pass	10.14 dBm
3125.002	-85.9	-101.8	-104.1	-122.6	-146.4	-153.9	Pass	9.83 dBm
3700.002	-83.5	-101.3	-103.3	-124.7	-147.9	-153.4	Pass	9.45 dBm
4275.002	-83.6	-99.4	-101.9	-124.8	-148.2	-153.3	Pass	8.41 dBm
4850.003	-80.5	-98.9	-100.4	-124.4	-148.2	-153.5	Pass	8.27 dBm
5425.003	-78.6	-97.8	-98.9	-124.1	-147.8	-153.1	Pass	7.48 dBm
6000.003	-78.1	-97.2	-98.3	-124.5	-147.3	-151.9	Pass	7.03 dBm

Number of Failures: 0

Finish Time: 10:40:15 AM

Phase Noise Readings Complete