

TUNE UP PROCEDURE

REF: ATCB 06 REV: 00

DATE: JAN 29/2008

As required by 2.1033(c)(9 a "Tune Up" document must be provided, i.e. a description of how and to what tolerance the power is adjusted during manufacturing.

Not applicable in our case:

There is no adjustment of the power during manufacturing because the electronic conception is designed so that the power is in conformity with the specifications.

Each beacon is checked in manufacturing:

- 406 MHz must be 37 dBm ± 2dB
- 121.5 MHz must be 23 dBm \pm 3dB

A final inspection is performed on each beacon and Acceptance Test Reports are filled to prove that they are compliant with these specifications before release.

Example of Acceptance Test Reports filled on Final Inspection are displayed page 2 and 3.



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FINAL CONTROL ON BEACON

	Beacon Te	4.40.005
	[01/2222002 0000_27 12 2001_20 0	
Beacon P/N	Beacon 2619362-0066 Am Type X5-3 GP5	dt [A]
Board P/N 5104518	Board Am	HF test OK
Board P/N	Board Am	
Battery type WILPA1655	Battery batch Flas	h Serial Number
emark		Operator Date A. LE LARDIC 19/12/2007
Max (dBm) 39 RF Power (dBm) 37,92 min (dBm) 35 Power OK	Max Delta Frequency (hz) Frequency OK	Short term frequency stability Allan Variance/100ms 7,4E-11 Max Allan Variance 2E-9 Medium term frequency stability Slope/min -2,97E-10 Slope OK
Test message (hex) FF FE 2F 8E 3E 22 93 E0 7F DF	FD F6 D2 37 83 E0 F6 6C no error bit	Max Slope/min 1E-9
Burst Nº 18 Nb Burst OK for mediu	m term Lock GPS status valid if GPS option present OK	Sigma/min 1,46E-9 Sigma OK Max Sigma/min 3E-9
Max 404 Max (μs) 250 BitRate/s 401,28 Rise time(μs) 203 Min 396 Min (μs) 50 BitRate OK OK	Max (μs) 250 Max pos. phase deviation (r Fall time (μs) 197 Positive phase deviation (r Min (μs) 50 Min Pos. phase deviation (r	ad) 1,076 Negative phase deviation (rad) -1,082
1,0		
-1,5-	150 200 250 300 350 Time (ms)	0 400 450 500 539,99
1 Measurements		
Max (dBm) 20 RF power (dBm) 17,76 Power OK	Frequency (hz) 121501542,45 Max Delta Frequency (hz) 6000	Modulation factor (%) 95,7031 Min Mod. factor (%) 80 Mod. Factor OK



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FINAL CONTROL ON CORRESPONDING PCB

