Laboratory Test Report

For the

TPAH6A Handportable Transceiver

Tested In accordance with

FCC 47 CFR Parts 22 and 90

Report Revision:1Issue Date:13-Apr-2007FCC ID:CASTPAH6A

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All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

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TELTEST Laboratories Tait Electronics Limited Report Number 2610

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REVISION HISTORY

Date	Revision	Comments
13-Apr-2007	1	Initial test report

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INTRODUCTION

This *Class 2 Permissive Change* report adds Tait Simulcast Modulation (TSM) to the original test report 2066 & 2465, and confirms the radio's performance for Occupied Bandwidth.

Type Approval Testing of the TPAB12-H600A (Serial No 21005881) in accordance with:

FCC CFR 47 Parts 22 & 90

REPORT PREPARED FOR

Tait Electronics Ltd PO Box 1645 558 Wairakei Rd Christchurch New Zealand

DESCRIPTION OF SAMPLE

Equipment:	Handportable Transceiver
Туре:	TPAH6A
Product code:	TPAB12-H600A
Serial Numbers:	21005881
Quantity:	1

STATEMENT OF COMPLIANCE

The TPAB12-H600A Handportable transceiver as tested in this report was found to conform to the following standards:

FCC CFR 47 Parts 22 & 90

TEST CONDITIONS

All testing was performed at the following conditions.

Ambient Temperature	15°C → 30°C
Relative Humidity	20% → 75%
Standard Test Voltage	$7.5 V_{DC}$

NECESSARY BANDWIDTH AND EMISSION DESIGNATORS

SPECIFICATION: FCC 47 CFR 2.202

The Necessary Bandwidth is the minimum value of the occupied bandwidth sufficient to ensure the transmission of information at the rate and with the quality required for the system employed.

99 % Bandwidth Measurement Results

460.1 MHz		
Channel Spacing	Power	99% BW TSM
12.5 kHz	4W	6.10 kHz
12.5 kHz	1W	6.10 kHz

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TEST RESULTS

OCCUPIED BANDWIDTH

SPECIFICATION: FCC 47 CFR 2.1049 (c)

GUIDE: TIA/EIA-603C 2.2.11

MEASUREMENT PROCEDURE:

1. Refer Annex A for Equipment Set up.

- 2. For analogue measurements: The EUT was modulated by a 2500Hz tone at an input level 16dB above a level that produced 50% deviation. The input level was established at the frequency of maximum response of the audio modulating circuit. For Data measurements: The EUT was modulated with an internally generated pseudo random bit sequence at the appropriate Baud rates.
- 3. The Occupied Bandwidth was measured on the Spectrum Analyser, with bandwidth settings as follows.

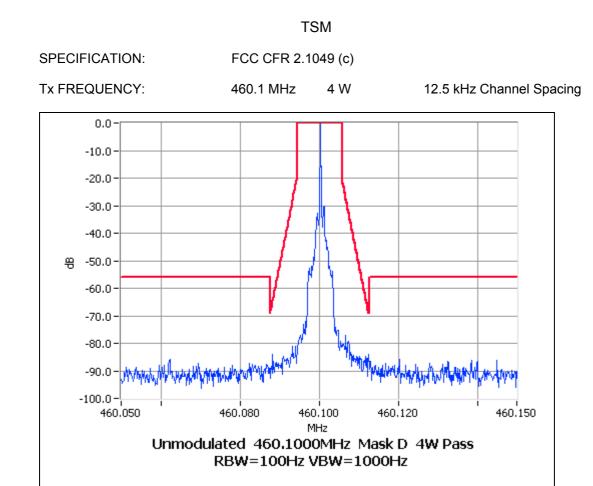
Emission Mask D – Resolution Bandwidth = 100Hz, Video Bandwidth = 1 kHz

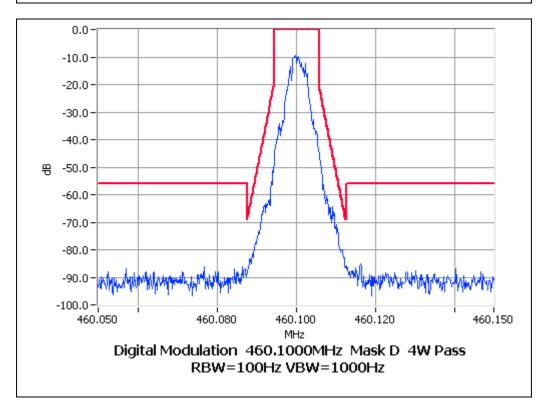
MEASUREMENT RESULTS: See the plots on the following pages for 12.5 kHz channel spacing.

LIMIT CLAUSE:	FCC 47	7 CFR 90.210	
EMISSION MASKS Emission Mask D	12.5 kH	z Channel Spacing	TSM
DATA SPEED TSM	9600 bps	12.5 kHz Channel Spac	ing

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OCCUPIED BANDWIDTH

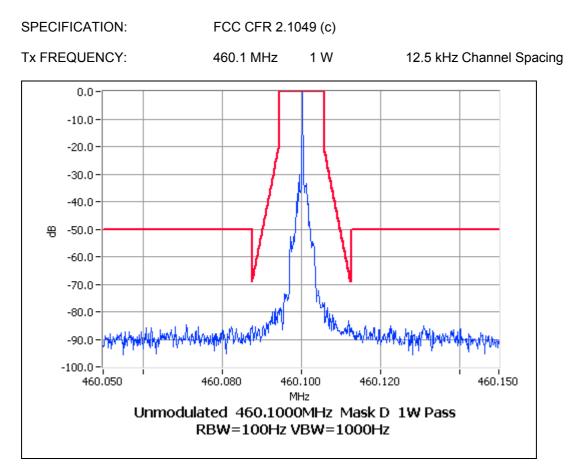


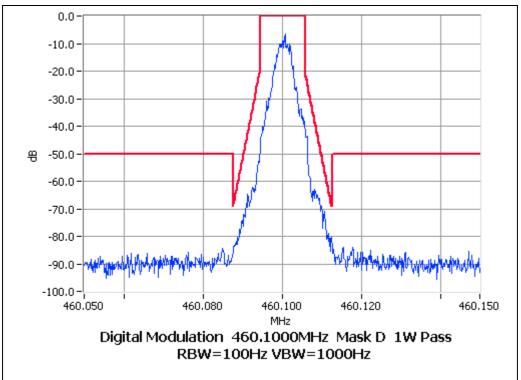


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OCCUPIED BANDWIDTH

TSM





FCC ID: CASTPAH6A

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TEST EQUIPMENT USED

No#	Equipment	Manufacturer	Model No NGS M32/10	Serial No#	Tait ID	Cal Due
21	Power Supply	Rohde & Schwarz	192.0810.31	Fnr 434	E3556	16-Oct-07
66	RF Attenuator 25W	Weinschel	33-20-33	BD5871	E3673	31-Oct-07
88	Spectrum Analyser	Hewlett Packard	HP8562E	3821A00779	E3715	31-Oct-07
137	1m Multiflex Cable	Suhner	MF141	TT007	E4443	30-Oct-07
138	1m Multiflex Cable	Suhner	MF141	TT086	E4444	30-Oct-07

ANNEX A

All other testing is performed using the Teltest Radio EVAluation system (TREVA), which is configured as shown below. The Spectrum Analyser is connected to the EUT via the attenuator network for Conducted Emissions testing, and Occupied Bandwidth.

