
	<p>Manufacturer : MARTEC. Beacon Model : Kannad Auto / Auto GPS / Manual / Manual GPS / Manual+ / Manual+ GPS</p>	<p>INTESPACE Reference E6668-ETS/IEC</p>
--	--	---

CHAPTER 25

RF FIELD IMMUNITY TEST

	<p align="center">Manufacturer : MARTEC. Beacon Model : Kannad Auto / Auto GPS / Manual / Manual GPS / Manual+ / Manual+ GPS</p>	<p align="center">INTESPACE Reference E6668-ETS/IEC</p>
--	---	---

25.1 TEST SPECIFICATIONS AND PROGRAMME

Following IEC 1000-4-3 (Clause 10.4 of IEC 60945):

Severity level : 3 (following IEC 1000-4-3) = 10 V/m.

Calibration at 6 V/m.

Calculation of the offset :

offset = $20 \log (10/6) = 4,44 \text{ dB}$.

Suceptibility criteria :

The test was run with EPIRB in Ready position without its bracket .
During the test the Epirb was ended with video camera if it was running (flash).

Only the accessible faces of Epirb was tested .

Note : This test is more restricting than the IEC specification because the EPIRB is normally protected by its bracket

25.2 EQUIPMENT UNDER TEST

Beacon Unit : 5/7
Manufacturer : MARTEC
Type : KANNAD AUTO/AUTO GPS/MANUAL/MANUAL GPS/MANUAL+/MANUAL+GPS
Number : 57990
Class : II


21.3. DATES :

RS Test start on : December 14th, 2005

RS End of test : December 15th, 2005

25.4 TEST SITE

Toulouse Space Center (CST) - INTESPACE Laboratory.
Hight Field Anechoïc Chamber

	Manufacturer : MARTEC. Beacon Model : Kannad Auto / Auto GPS / Manual / Manual GPS / Manual+ / Manual+ GPS	INTESPACE Reference E6668-ETS/IEC
--	---	--

25.5 TEST EQUIPMENT

Generator :

Name & SN	Frequency Range	Calibration validity
RS SMG	100kHz-1GHz	06/2006

Amplificator :

Name & SN	Frequency Range	Calibration validity
AR 2000L	10kHz-220MHz	12/2005
AR 1000HA	220MHz-400MHz	12/2005
KALMUS LA500UE	400MHz-500MHz	02/2006
KALMUS 722FC	500MHz-1GHz	02/2006

Field sensor :

Name & SN	Frequency Range	Calibration validity
HOLADAY 3004	30MHz-1GHz	01/2006
HOLADAY Hi 3113	30MHz-1GHz	01/2006

Power meter :


Name & SN	Frequency Range	Calibration validity
NAP+sonde 350W	25MHz-1GHz	08/2006+02/2006
HP438+sonde8482A	100kHz-4,2GHz	04/2006+04/2006

Coupleur :

Name & SN	Frequency Range	Calibration validity
AR DC2000 NS1715		08/2006

Antenna :

Name & SN	Frequency Range	Last calibration date
Biconique 3109 NS2068	30MHz-200MHz	03/2006
LOG PER R&S HUF-Z3	200MHz-1GHz	10/2006

	<p>Manufacturer : MARTEC. Beacon Model : Kannad Auto / Auto GPS / Manual / Manual GPS / Manual+ / Manual+ GPS</p>	<p>INTESPACE Reference E6668-ETS/IEC</p>
--	--	---


25.6 RESULTS

No susceptibility were detected on the equipment.

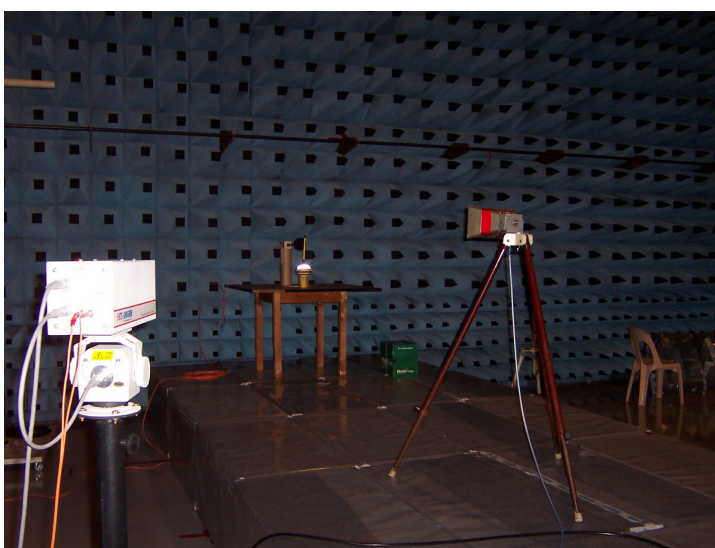
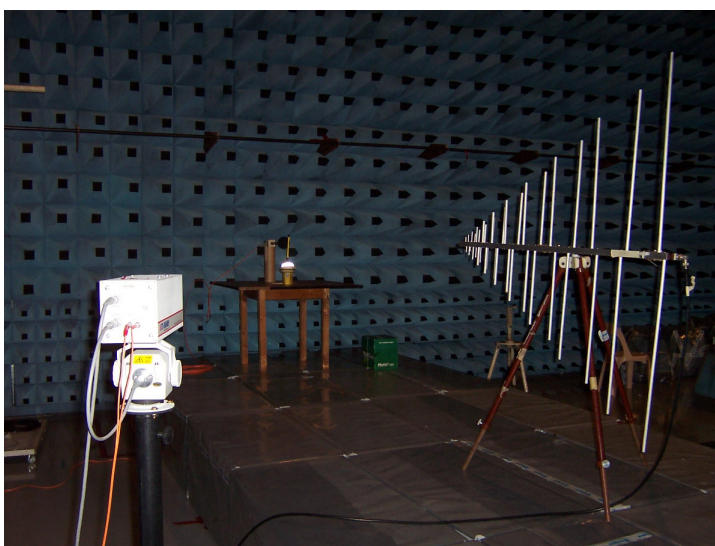
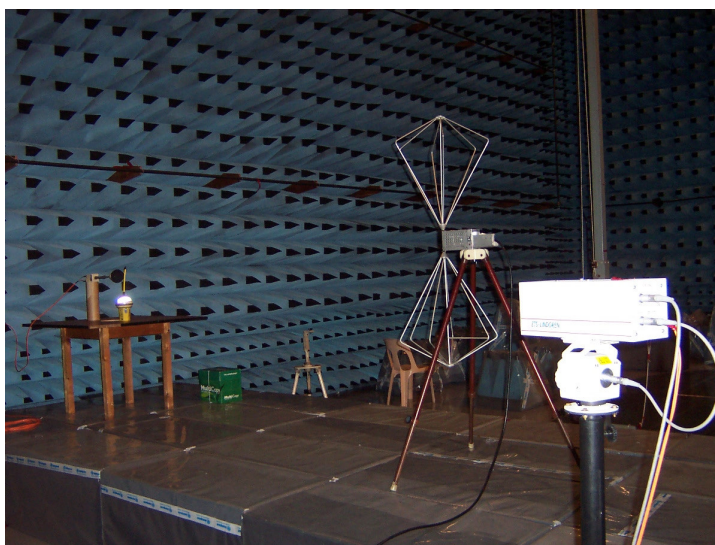
25.7 SELF TEST CONTROL


Nothing abnormal to note

See Photos and Aliveness Test Result next page

	<p>Manufacturer : MARTEC. Beacon Model : Kannad Auto / Auto GPS / Manual / Manual GPS / Manual+ / Manual+ GPS</p>	<p>INTESPACE Reference E6668-ETS/IEC</p>
--	--	---

Test photos



	Manufacturer : MARTEC. Beacon Model : Kannad Auto/AutoGPS/Manual/Manual GPS/Manual+/Manual+ GPS	INTESPACE Reference E6668-ETS/IEC
--	--	--

Laboratoire de certification
Contrôle balise ARGOS/SARSAT

After RFI and ESD Tests

Constructeur : **MARTEC**
Modèle : **TOPAZE**
Numero de serie : **57990 OUTS**
Reference : **E6668-2**
Type : **SARSAT**

Date de l'essai : 15 Dec 2005 07:48:57
Temperature : 23.4 Deg C

Message balise

Message reçu (1-144): FFFE2F8E3F38A18AE201739521760F20068D
Format flag (25): 1
Protocole flag (26): 0
Code pays (27-36): 0227
Pays : FRANCE
Code protocole (37-40): 1111
Protocole utilise : National - Test
Identification :
Numero : 57990
BCH 1 lu/calculé (86-106/25-85): 0E5485/0E5485
BCH 2 lu/calculé (133-144/107-132): 680/680
Pos. Data Source (111): Internal
121.5 MHz Homing (112): No
Additional Data Pos. (110): delta Pos.
Position GPS de reference lab : N 43°33'34" E 1°28'42"
Position GPS : Yes
Position GPS par défaut : No
Latitude position : 43°33'32" Nord
Longitude position : 1°28'40" Est
Delta position : .076 km

Contrôle message

Durée de la porteuse pure 160.63ms +- 0.00
Durée de l'émission 520.64 ms
Fréquence de modulation 400.20Hz +- 0.00

Stabilité de fréquence

Fréquence moyenne = 406027.93379 KHz
SIGMA2 F2-F1 8.533E-11
SIGMA3 F3-F2 1.132E-10

Mesures d'indice

F	F1	G1
49933.57	247	62
49933.59	247	62

Excursion de phase totale	rd	<= 2.48	2.19
Excursion de phase positive	rd	0.96< <1.24	1.10
Excursion de phase negative	rd	-1.24< <-0.96	-1.09
Symétrie de l'excursion	%	<= 5	-2.22

Mesures de puissance

Puissance à 406 MHz = 37.65 dBm

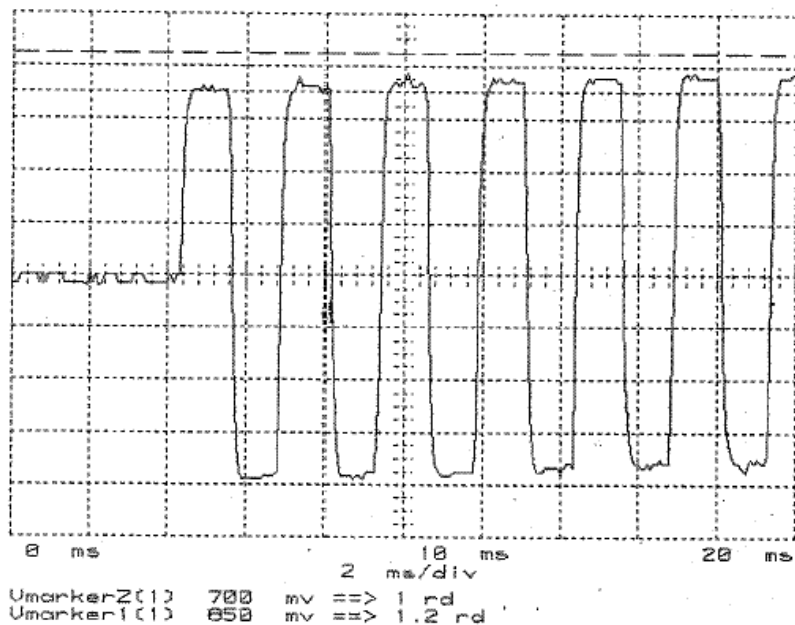


Manufacturer : MARTEC.
Beacon Model : Kannad
Auto/AutoGPS/Manual/Manual
GPS/Manual+/Manual+ GPS

INTESPACE Reference

E6668-ETS/IEC

Oscillo



Spectre de frequence

