

TEST REPORT

To:	ACIAN EVEDERE HOLDING LTD	To:	
То:	ASIAN EXPRESS HOLDING LTD.	To:	-
Attn:	Bob Cheng	Attn:	-
Address:	4F, -4, No.669 Jingping Rd., Zhonghe City, TaiPei county 235, Taiwan	Address:	-
Fax:	61675805-2633	Fax:	-
E-mail:	bob@icl.net.cn	E-mail:	-
Folder No.:			
Factory name:			
Location:			
Product:	Air Com Model No.: PL-1170 / PL	nbat with Flight Stick -1171 / PL-1172 / PL-1	173 / PL-1174
		Sample No:	(5213)200-0472
		Test date:	July 30, 2013
		Test Requested:	FCC Part 15 - 2011
		Test Method:	ANSI C63.4 - 2009
		FCC ID:	VLEPL1170-T
The results	given in this report are related to the teste	d specimen of the des	cribed electrical apparatus.
CONCLUSION:	The submitted sample was found to COM	PLY with requirement	of FCC Part 15 Subpart C.
	Authorized Si	gnature:	
	loth	Borton	A
Reviewed by:	Keith Yeung Ar	proved by: Steven To	sang
Date: August 15		ate: August 15, 2013	

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com



Test Result Summary

EMISSION TEST								
Test requirement: FCC Part 15 - 2011 Test Condition	Test Method	Test	Result					
Test Condition	rest Method	Pass	Failed					
Radiated Emission Test,	ANSI C63.4	\boxtimes						
9kHz to 40GHz								

Report Revision & Sample Re-submit History:

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Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at :

BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE

No. 2106-2107, 21/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

List of measuring equipment

Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	28-JAN-2014
SPECTRUM ANALYZER	R&S	R3127	111000909	29-JAN-2014
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	12-SEP-2013
HORN ANTENNA	SCHWARZBECK	BBHA9120D	9120D-692	12-SEP-2013
PREAMLIFIER	SCHWARZBECK	BBV9718	9718-152	15-OCT-2013
OPEN AREA TEST SITE	BVCPS	N/A	N/A	08-JUL-2014
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	05-FEB-2014
COAXIAL CABLE	SUHNER	N/A	N/A	07-NOV-2013
COAXIAL CABLE	HUBER + SUHNER	RG214	N/A	24-SEP-2013

Remarks:-

N/A: Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result



Equipment Under Test [EUT]

Description of Sample:

Model Name: Air Combat with Flight Stick

Model Number: PL-1170

Additional Model Name:

Additional Model Number: PL-1171 / PL-1172 / PL-1173 / PL-1174

Additional Model information: Declare the Circuit, PCB layout and Electrical parts of the

products are identical to the basic model, except the model

number for market purpose

Rating: Remote: 6Vd.c. ("AAA" size battery x 4)

Description of EUT Operation:

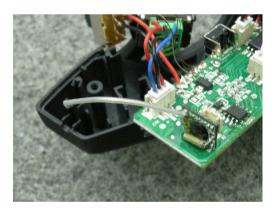
The Equipment Under Test (EUT) is a **ASIAN EXPRESS HOLDINGS LIMITED** of Remote Control Transmitter. It is a 1 switch, 7 buttons, 1 trigger and marble transceiver and operating at 2405MHz to 2478MHz. The lowest, middle and highest frequencies were tested and the results are shown in the report. The EUT transmit while buttons is being pressed or sticks are being pushed or pulled, Modulation by IC, and type is GFSK.

The transmitter has different control:

- 1. Fast Speed button speed control
- 2. Slow Speed button speed control
- 3. Middle Shoot button shoot control
- 4. Left Shoot button shoot control
- 5. Right Shoot button shoot control
- 6. Left Trim Control button trim control
- 7. Right Trim Control button trim control
- 8. ON/OFF Switch power control
- 9. Throttle trigger rise up/descend control
- 10. Marble control moving direction control

Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. It is soldered on the PCB. The antenna consists of 3.5cm long wire The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.



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Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.249

Test Method: ANSI C63.4

Test Date(s): 2013-07-30
Temperature: 31.0 °C
Humidity: 79.0 %
Atmospheric Pressure: 100.2 kPa

Mode of Operation: Transmission mode

Tested Voltage: 6Vd.c. ("AAA" size battery x 4)

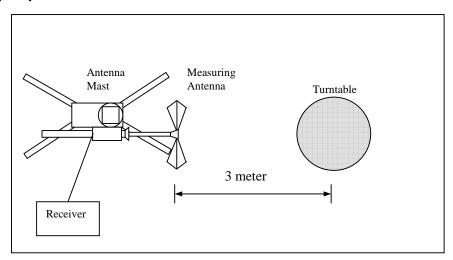
Test Procedure:

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

Test Setup: Open Area Test Site





Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.249]:

Frequency Range of	Field Strength of	Field Strength of
Fundamental	Fundamental Emission	Harmonics Emission
	(Average)	(Average)
[MHz]	[mV/m]	[µV/m]
2400-2483.5	50	500

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
2405.00	Н	-2.7	-20.0	87.2	114.0	-26.8	**67.2	94.0	-26.8
2405.00	V	-2.7	-20.0	93.5	114.0	-20.5	**73.5	94.0	-20.5

Test Result of (Transmission mode, Middle frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
2442.00	Н	-2.7	-20.0	91.9	114.0	-22.1	**71.9	94.0	-22.1
2442.00	V	-2.7	-20.0	89.7	114.0	-24.3	**69.7	94.0	-24.3

Test Result of (Transmission mode, Highest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
2478.00	Н	-2.7	-20.0	92.5	114.0	-21.5	**72.5	94.0	-21.5
2478.00	V	-2.7	-20.0	85.3	114.0	-28.7	**65.3	94.0	-28.7

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 1MHz Receiver setting:

VBW = 1MHz

^{**}Duty Cycle Correction = 20Log(0.024) = -32.5dB.

^{**}Therefore, -20dB is taken.



Radiated Emissions (Spurious Emission)

FCC Part 15 Section 15.249 Test Requirement:

Test Method: **ANSI C63.4** 2013-07-30 Test Date(s): 31.0 °C Temperature: 79.0 % Humidity: Atmospheric Pressure: 100.2 kPa

Mode of Operation: Transmission mode

Tested Voltage: 6Vd.c. ("AAA" size battery x 4)

Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4810.00	Н	6.3	-20.0	62.9	74.0	-11.1	**42.9	54.0	-11.1
7215.00	Н	13.5	-20.0	61.0	74.0	-13.0	**41.0	54.0	-13.0
9620.00	Н	13.2	-20.0	62.6	74.0	-11.4	**42.6	54.0	-11.4
12025.00	Н	18.5	-20.0	60.2	74.0	-13.8	**40.2	54.0	-13.8
14430.00	Н	19.2	-20.0	60.1	74.0	-13.9	**40.1	54.0	-13.9
16835.00	Н	25.4	-20.0	61.0	74.0	-13.0	**41.0	54.0	-13.0
19240.00	Н	27.3	-20.0	63.2	74.0	-10.8	**43.2	54.0	-10.8
21645.00	Н	29.3	-20.0	61.5	74.0	-12.5	**41.5	54.0	-12.5
24050.00	Н	32.1	-20.0	63.2	74.0	-10.8	**43.2	54.0	-10.8
26455.00	Н	33.9	-20.0	61.8	74.0	-12.2	**41.8	54.0	-12.2

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

Note: Field Strength includes Antenna Factor and Cable Loss.

RBW = 1MHzReceiver setting:

VBW = 1MHz

^{**}Duty Cycle Correction = 20Log(0.024) = -32.5dB.

^{**}Therefore, -20dB is taken.



Measurement Data

Test Result of (Transmission mode, Lowest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBμV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4810.00	V	6.3	-20.0	70.7	74.0	-3.3	**50.7	54.0	-3.3
7215.00	V	13.5	-20.0	61.8	74.0	-12.2	**41.8	54.0	-12.2
9620.00	V	13.2	-20.0	61.7	74.0	-12.3	**41.7	54.0	-12.3
12025.00	V	18.5	-20.0	60.3	74.0	-13.7	**40.3	54.0	-13.7
14430.00	V	19.2	-20.0	61.0	74.0	-13.0	**41.0	54.0	-13.0
16835.00	V	25.4	-20.0	60.5	74.0	-13.5	**40.5	54.0	-13.5
19240.00	V	27.3	-20.0	62.6	74.0	-11.4	**42.6	54.0	-11.4
21645.00	V	29.3	-20.0	61.5	74.0	-12.5	**41.5	54.0	-12.5
24050.00	V	32.1	-20.0	63.0	74.0	-11.0	**43.0	54.0	-11.0
26455.00	V	33.9	-20.0	62.6	74.0	-11.4	**42.6	54.0	-11.4

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

**Duty Cycle Correction = 20Log(0.024) = -32.5dB.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz

^{**}Therefore, -20dB is taken.



Measurement Data

Test Result of (Transmission mode, Middle frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4884.00	Н	6.3	-20.0	71.1	74.0	-2.9	**51.1	54.0	-2.9
7326.00	Н	13.5	-20.0	61.2	74.0	-12.8	**41.2	54.0	-12.8
9768.00	Н	13.2	-20.0	62.0	74.0	-12.0	**42.0	54.0	-12.0
12210.00	Н	18.5	-20.0	61.4	74.0	-12.6	**41.4	54.0	-12.6
14652.00	Η	19.2	-20.0	61.2	74.0	-12.8	**41.2	54.0	-12.8
17094.00	Ι	25.4	-20.0	62.5	74.0	-11.5	**42.5	54.0	-11.5
19536.00	Н	27.3	-20.0	62.8	74.0	-11.2	**42.8	54.0	-11.2
21978.00	Н	29.3	-20.0	62.2	74.0	-11.8	**42.2	54.0	-11.8
24420.00	Н	32.1	-20.0	63.1	74.0	-10.9	**43.1	54.0	-10.9
26862.00	Н	33.9	-20.0	62.3	74.0	-11.7	**42.3	54.0	-11.7

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4884.00	V	6.3	-20.0	69.6	74.0	-4.4	**49.6	54.0	-4.4
7326.00	V	13.5	-20.0	61.8	74.0	-12.2	**41.8	54.0	-12.2
9768.00	V	13.2	-20.0	61.9	74.0	-12.1	**41.9	54.0	-12.1
12210.00	V	18.5	-20.0	60.9	74.0	-13.1	**40.9	54.0	-13.1
14652.00	V	19.2	-20.0	61.9	74.0	-12.1	**41.9	54.0	-12.1
17094.00	V	25.4	-20.0	62.8	74.0	-11.2	**42.8	54.0	-11.2
19536.00	V	27.3	-20.0	62.3	74.0	-11.7	**42.3	54.0	-11.7
21978.00	V	29.3	-20.0	62.8	74.0	-11.2	**42.8	54.0	-11.2
24420.00	V	32.1	-20.0	62.9	74.0	-11.1	**42.9	54.0	-11.1
26862.00	V	33.9	-20.0	62.7	74.0	-11.3	**42.7	54.0	-11.3

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHz

VBW = 1MHz

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^{**}Duty Cycle Correction = 20Log(0.024) = -32.5dB.

^{**}Therefore, -20dB is taken.



Measurement Data

Test Result of (Transmission mode, Highest frequency): PASS

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4956.00	Н	6.3	-20.0	61.8	74.0	-12.2	**41.8	54.0	-12.2
7434.00	Η	13.5	-20.0	62.5	74.0	-11.5	**42.5	54.0	-11.5
9912.00	Н	13.2	-20.0	62.7	74.0	-11.3	**42.7	54.0	-11.3
12390.00	Н	18.5	-20.0	61.7	74.0	-12.3	**41.7	54.0	-12.3
14868.00	Н	19.2	-20.0	62.6	74.0	-11.4	**42.6	54.0	-11.4
17346.00	Н	26.2	-20.0	62.8	74.0	-11.2	**42.8	54.0	-11.2
19824.00	Н	27.3	-20.0	63.0	74.0	-11.0	**43.0	54.0	-11.0
22302.00	Н	29.3	-20.0	62.8	74.0	-11.2	**42.8	54.0	-11.2
24780.00	Н	32.1	-20.0	63.4	74.0	-10.6	**43.4	54.0	-10.6
27258.00	Н	33.9	-20.0	62.8	74.0	-11.2	**42.8	54.0	-11.2

Frequency (MHz)	Polarity (H/V)	Antenna Factor & Cable Loss (dB/m)	Duty- cycle correction (dB)	Field Strength at 3m – Peak (dBµV/m)	Limit at 3m – Peak (dBµV/m)	Margin - Peak (dB)	Field Strength at 3m – Average (dBµV/m)	Limit at 3m – Average (dBµV/m)	Margin - Average (dB)
4956.00	V	6.3	-20.0	61.9	74.0	-12.1	**41.9	54.0	-12.1
7434.00	V	13.5	-20.0	63.5	74.0	-10.5	**43.5	54.0	-10.5
9912.00	V	13.2	-20.0	62.2	74.0	-11.8	**42.2	54.0	-11.8
12390.00	V	18.5	-20.0	61.0	74.0	-13.0	**41.0	54.0	-13.0
14868.00	V	19.2	-20.0	62.7	74.0	-11.3	**42.7	54.0	-11.3
17346.00	V	26.2	-20.0	62.5	74.0	-11.5	**42.5	54.0	-11.5
19824.00	V	27.3	-20.0	62.8	74.0	-11.2	**42.8	54.0	-11.2
22302.00	V	29.3	-20.0	63.1	74.0	-10.9	**43.1	54.0	-10.9
24780.00	V	32.1	-20.0	63.0	74.0	-11.0	**43.0	54.0	-11.0
27258.00	V	33.9	-20.0	62.7	74.0	-11.3	**42.7	54.0	-11.3

[#] For pulse modulated devices and using measuring equipment employing a peak detection mode, properly adjusted for such factor as pulse desensitisation.

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 1MHzVBW = 1MHz

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^{**}Duty Cycle Correction = 20Log(0.024) = -32.5dB.

^{**}Therefore, -20dB is taken.



Radiated Emissions (30MHz – 2.4GHz)

Test Requirement: FCC Part 15 Section 15.209

Test Method:

ANSI C63.4

Test Date(s):

Temperature:

Humidity:

Atmospheric Pressure:

Mode of Operation:

ANSI C63.4

2013-07-30

31.0 °C

79.0 %

100.2 kPa

On mode

Tested Voltage: 6Vd.c. ("AAA" size battery x 4)

Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range	Quasi-Peak Limits			
[MHz]	[μV/m]			
1.705-30	300			
30-88	100			
88-216	150			
216-960	200			
Above960	500			



Measurement Data

Test Result of (On mode): PASS

Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBμV/m)	Margin (dB)
37.26	Н	28.9	40.0	-11.1
70.28	Н	24.7	40.0	-15.3
256.72	Н	22.5	46.0	-23.5
322.88	Н	24.6	46.0	-21.4
445.16	Н	27.5	46.0	-18.5
581.22	Н	29.2	46.0	-16.8

Frequency (MHz)	Polarity (H/V)	Field Strength at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
37.26	V	29.0	40.0	-11.0
70.28	V	24.3	40.0	-15.7
256.72	V	22.6	46.0	-23.4
322.88	V	24.1	46.0	-21.9
445.16	V	27.2	46.0	-18.8
581.22	V	29.9	46.0	-16.1

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz

VBW = 120KHz

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Frequency range of Fundamental Emission

Test Requirement: FCC 47 CFR 15.249

Test Method: ANSI C63.4:2009 (Section 13.1.7)

Test Date(s): 2013-07-30
Temperature: 31.0 °C
Humidity: 79.0 %
Atmospheric Pressure: 100.2 kPa

Mode of Operation: Transmission mode

Tested Voltage: 6Vd.c. ("AAA" size battery x 4)

Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

Limits for Frequency range of Fundamental Emission:

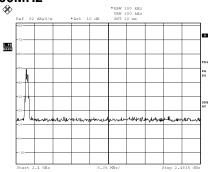
Frequency	FCC Limits
[MHz]	[MHz]
2405.00 - 2478.00	2400 – 2483.5



Measurement Data:

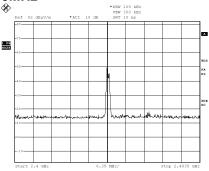
Test Result of Frequency Range of Fundamental Emission: PASS

Lowest Frequency - 2405.00MHz



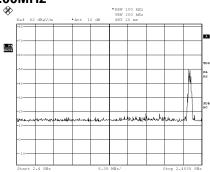
Date: 30.JUL.2013 10:47:19

Middle Frequency - 2442.00MHz



Date: 30.JUL.2013 10:09:42

Highest Frequency - 2478.00MHz



Date: 30.JUL.2013 10:45:04

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TEST REPORT No: (5213)200-0472 Measurement Data :

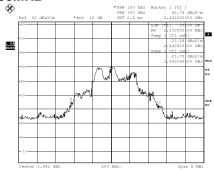
Test Result of 26dB Bandwidth of Fundamental Emission: PASS

Lowest Frequency - 2405.00MHz

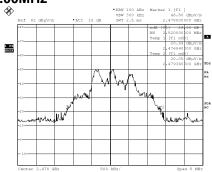


Date: 30.JUL.2013 10:47:04

Middle Frequency - 2442.00MHz



Highest Frequency - 2478.00MHz



Date: 30.JUL.2013 10:45:26

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Duty Cycle Correction During 100msec:

Each function key sends a different series of characters, but each packet period (10.16msec) never exceeds a series of 1 pulse (0.24msec). Assuming any combination of short and long pulses maybe obtained due to encoding the worst case transmit duty cycle would be considered 0.24msec per 10.16msec = 2.36% duty cycle.

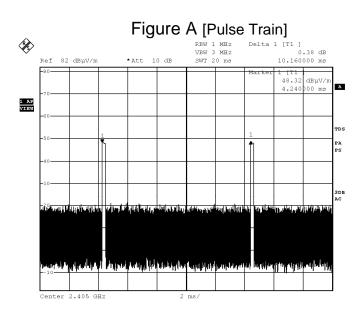
Remarks:

Duty Cycle Correction = 20Log(0.024) = -32.5dB Therefore, -20dB is taken

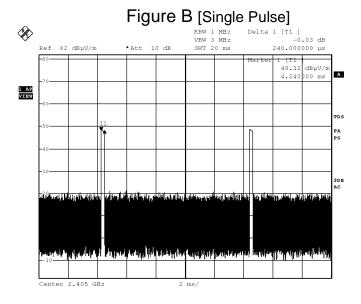
The following figures [Figure A to B] show the characteristics of the pulse train for one of these functions.



Measurement Data:



Date: 30.JUL.2013 10:54:10



Date: 30.JUL.2013 10:53:58

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Photographs of EUT

Front View of the product



Top View of the product



Side View of the product



Battery Compartment



Rear View of the product



Bottom view of the product



Side View of the product



Battery Cover



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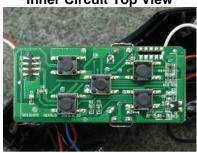


Photographs of EUT

Inner view of product



Inner Circuit Top View



Inner Circuit Top View



Inner Circuit Top View



Inner view of product



Inner Circuit Bottom View



Inner Circuit Bottom View



Inner Circuit Bottom View



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Measurement of Radiated Emission Test Set Up



***** End of Report *****