

FCC Test Report

Application No.: HKES130300054501
Applicant: Captial Prospect Ltd.
Address Room 03, 13/F., Block B, Veristrong Ind. Centre, 34-36 Au Pui Wan Street, Fo Tan, N.T.
Product Information:
 Product Description: Remote Transmitter
 Model: MP-318
 Product Class : Low Power Communication Device – Transmitter (315 MHz & 433 MHz)
Requirement: CFR 47 FCC PART 15 SUBPART C, 2012
 - Intentional Radiators.
Date of Receipt: 20-03-2013
Date of Test: 21-03-2013 to 18-04-2013
Date of Issue: 19-04-2013

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.

Authorized Signature:



LOKE Sai Kit, Wilson
Senior Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of International Electrical Certification Centre Ltd. or testing done by International Electrical Certification Centre Ltd. in connection with, distribution or use of the product described in this report must be approved by International Electrical Certification Centre Ltd. in writing.

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2 Test Summary

Test	Test Requirement	Test Method	Result
Antenna Requirement	FCC PART 15, SUBPART C: 2012	ANSI C63.4:2009	PASS
Radiated Emission	FCC PART 15, SUBPART C: 2012	ANSI C63.4:2009	PASS
Bandwidth	FCC PART 15, SUBPART C: 2012	ANSI C63.4:2009	PASS
Provision of Momentary operation	FCC PART 15, SUBPART C: 2012	ANSI C63.4:2009	PASS
Remark : 1) Please refer to section 6.1 of this report for explanation			

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3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	2
3 CONTENTS	3
4 GENERAL INFORMATION	4
4.1 GENERAL DESCRIPTION OF EUT.....	4
4.2 DETAILS OF EUT	4
4.3 CONDITIONS OF EUT	4
4.4 DESCRIPTION OF SUPPORT UNITS.....	4
4.5 STANDARDS APPLICABLE FOR TESTING.....	4
4.6 TEST LOCATION	4
4.7 TEST FACILITY	4
4.8 DEVIATION FROM STANDARDS	5
4.9 ABNORMALITIES FROM STANDARD CONDITIONS	5
4.10 DECLARATION OF FAMILY GROUPING	5
4.11 ABBREVIATIONS.....	5
5 EQUIPMENTS USED DURING TEST	6
6 TEST RESULTS.....	7
6.1 ANTENNA REQUIRMENT.....	7
6.2 AVERAGE FACTOR.....	8
6.2.1 <i>Measurement Data</i>	8
6.3 RADIATED EMISSIONS.....	13
6.3.1 <i>Measurement Data</i>	14
6.3.2 <i>Measurement Data</i>	16
6.4 BANDWIDTH.....	18
6.4.1 <i>Measurement data</i>	18
6.4.2 <i>Measurement data</i>	19
6.5 PROVISION OF MOMENTARY OPERATION.....	20
6.5.1 <i>Measurement data</i>	20
6.5.2 <i>Measurement data</i>	21
PHOTOGRAPHS.....	22
6.6 RADIATD EMISSION TEST SETUP.....	22
6.7 EUT CONSTRUCTIONAL DETAILS	23

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4 General Information

4.1 General Description of EUT

EUT Name:	Remote Transmitter
Model:	MP-318
Serial No.:	--
Type of modification:	OOK
Operating frequency:	318MHz; 433.92MHz
Antenna type:	Integral antenna

4.2 Details of EUT

Power Supply:	DC 3V (Button cell CR 2032 x 1)
Power Cord:	--

4.3 Conditions of EUT

The received sample was under good condition.

4.4 Description of Support Units

The EUT has been tested as an independent unit.

4.5 Standards Applicable for Testing

CFR 47, FCC Part 15, Oct 2012
ANSI C63.4:2009

4.6 Test Location

All tests were performed at: -

SGS IECC Limited (Member of the SGS Group (SGS SA))

Units 303-305, 3/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480.

No tests were sub-contracted.

4.7 Test Facility

Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules (**FCC Registration No. : 97774**).

The test facility is recognized, certified, or accredited by the following organizations:

FCC – CAB Registration No.: 446297

Measurement facility located at Fanling (Hong Kong), accredited as a Conformity Assessment Body (CAB) and was designated by FCC to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules.

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

4.10 Declaration of Family Grouping

None.

4.11 Abbreviations

N/A: Not Applicable

EUT: Equipment Under Test

5 Equipments Used during Test

Radiated Emission				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
3m Semi-Anechoic Chamber (pre-test)	--	--	--	--
3m / 10m Open Area Test Site	--	--	2012-02-24	2015-02-23
Test Receiver	Rohde & Schwarz	ESCS 30 / 100388	2012-11-19	2013-11-18
Spectrum Analyzer	Rohde & Schwarz	FSP 30 / 101474	2012-08-16	2013-08-15
Antenna 30-1000MHz	Schaffner	CBL6111C / 2791	2012-10-11	2014-10-10
Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D / 9120D-1070	2012-11-13	2014-11-12
Preamplifier 10MHz – 6GHz	Schwarzbeck	BBV9743 / 9743-052	2012-11-13	2014-11-12
Preamplifier 1-18GHz	Schwarzbeck	BBV9718 / 9718-223	2012-11-13	2014-11-12
Coaxial Cable	--	E167	2012-08-01	2013-07-31
RF Cable	HUBER+SUHNER	E207	2012-11-14	2013-11-13
Antenna Mast System	Schwarzbeck	AM9104 / -	--	--
Turntable with Controller	Drehtisch	DT312 / -	--	--
General Use Equipment				
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date
Digital Multimeter	Fluke	189 / 83640020	2012-05-17	2013-05-16
Temperature / Humidity meter	-	E158	2012-10-15	2013-10-14

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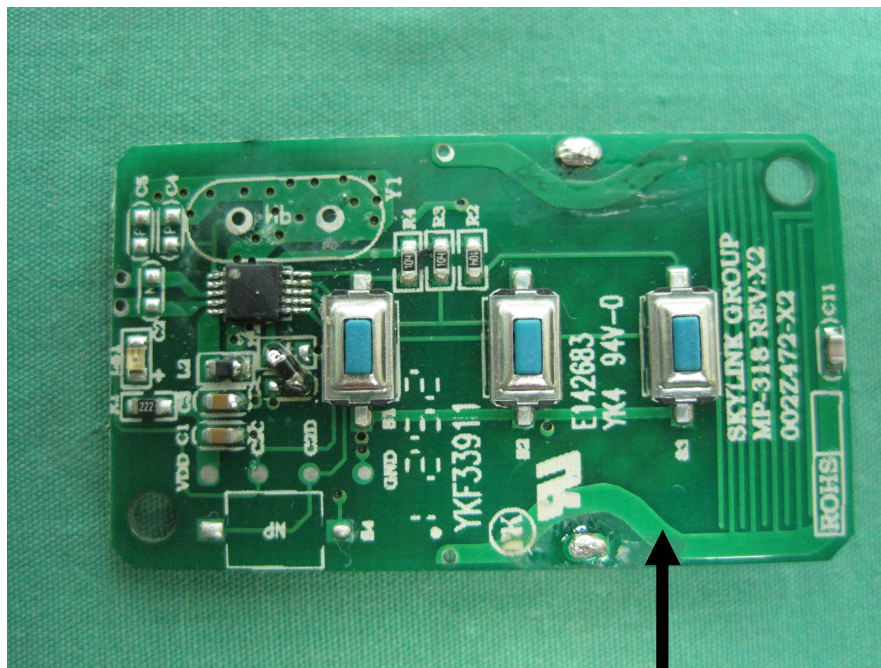
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6 Test Results

6.1 Antenna Requirement

According to 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

The EuT has component antenna, which accordance to the above sections, is considered sufficient to comply with the provisions of these sections.



Antenna

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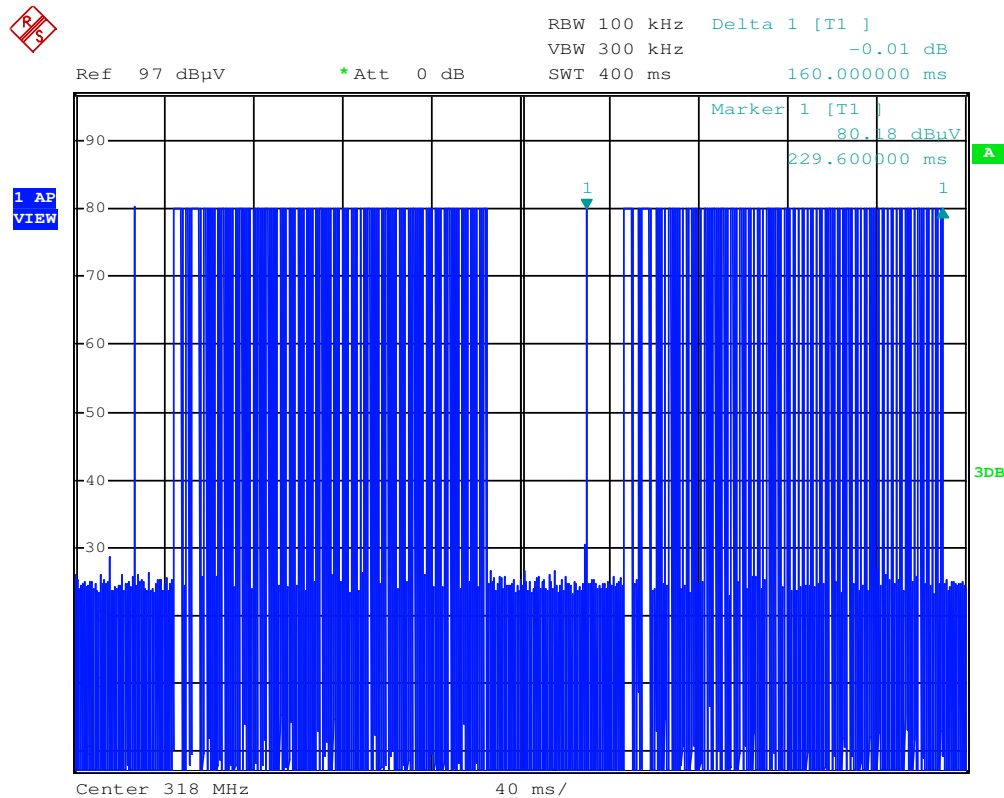
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6.2 Average Factor

6.2.1 Measurement Data

Time Domain Plots (Fundamental frequency of Transmitter at 318MHz, worst case):

Test results on operation with control for transmission mode :

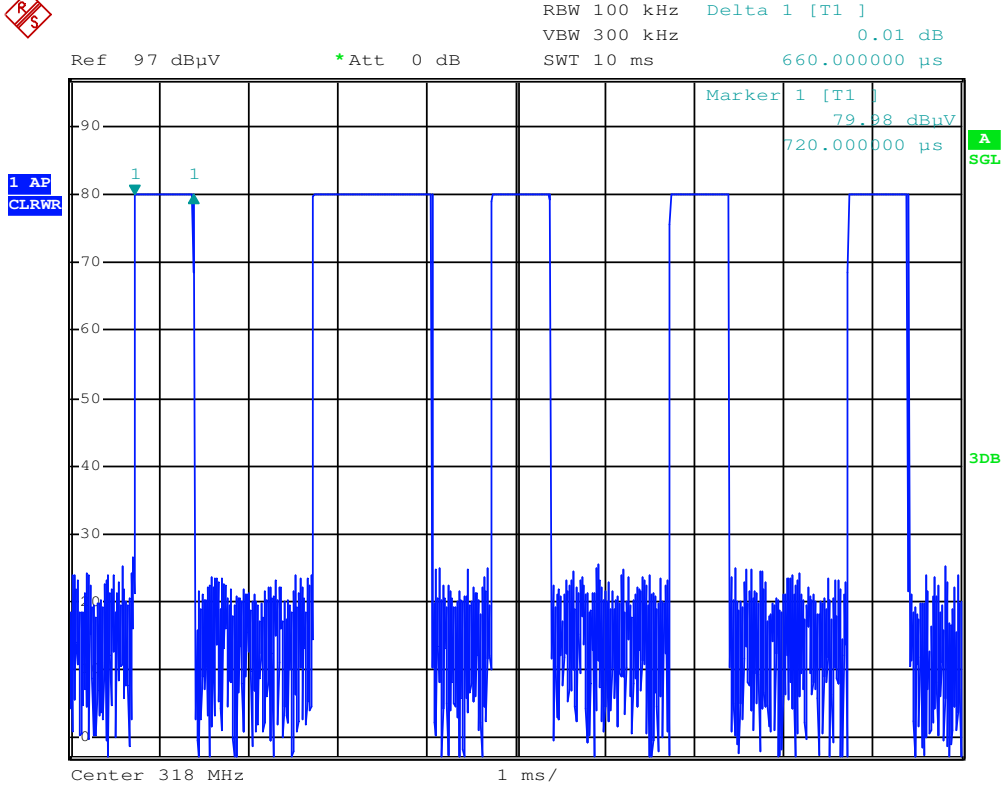


Date: 18.APR.2013 08:35:14

Pulse cycle period > 100ms

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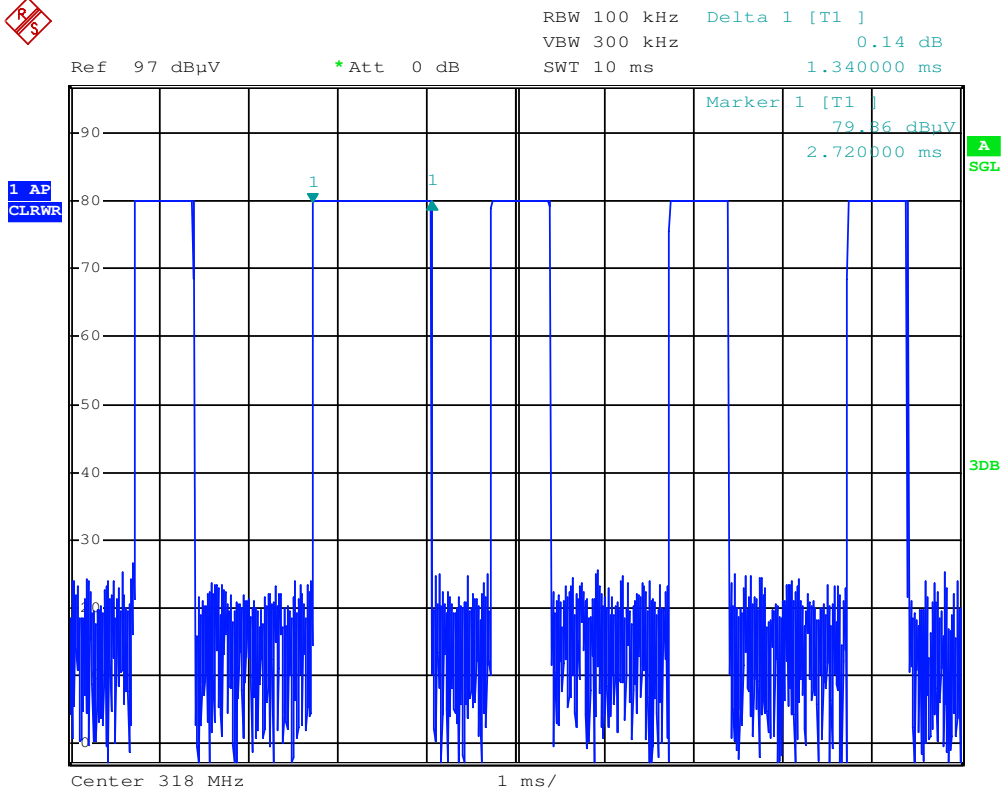


Date: 18.APR.2013 06:17:55

Pulse width = 0.66ms (total no. of pulse : 35)

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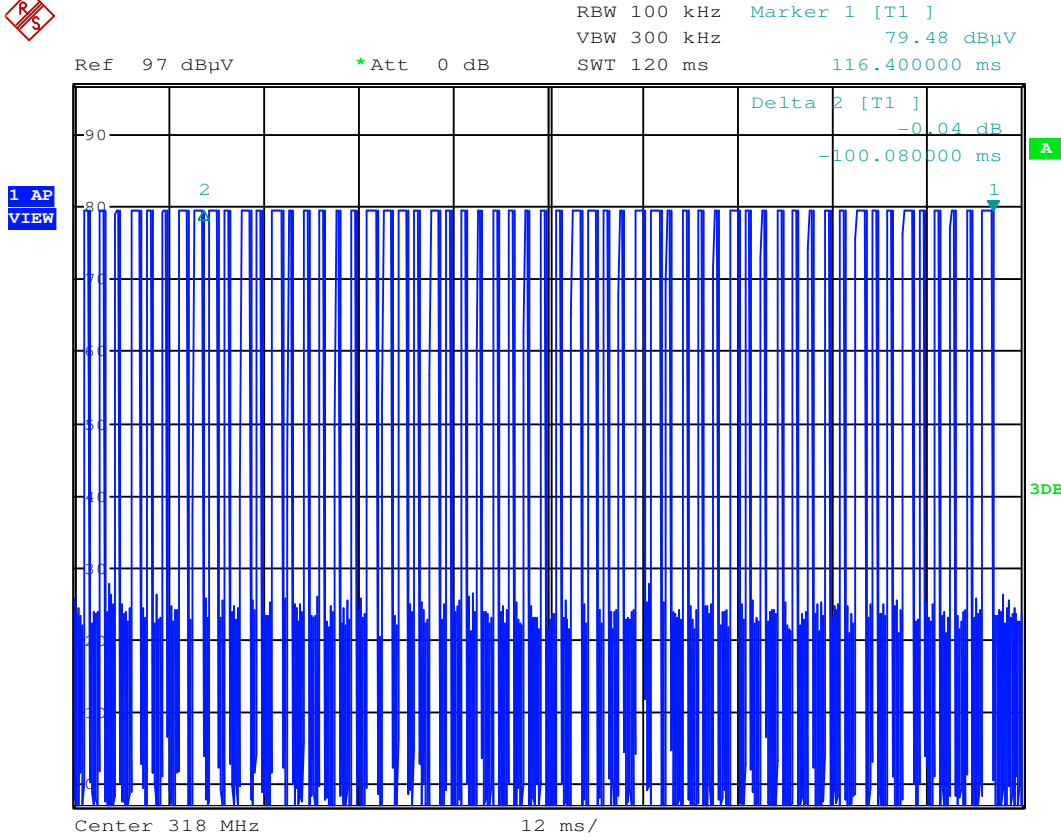


Date: 18.APR.2013 06:17:09

Pulse width = 1.34 ms (total no. of pulse : 15)

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Date: 2.MAY.2013 11:03:37

Total no. of long pluse: 15

Toeal no. of short pluse: 35

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Calculation for radiation (average) :

Formula :

$$\text{Duty cycle} = (N1L1 + N2L2 + \dots + Nn-1Ln-1 + NnLn) / 100 \text{ or } T$$

where

N1 is the number of type 1 pulse, L1 is length of type 1 pulse, etc.

T is the period of the pulse train (if less than 100ms)

According to the time domain plots shown on the next two pages :

$$\text{Duty cycle of the EUT} = (0.66 \times 35 + 1.34 \times 15) / 100 = 0.432$$

$$\text{Av correction factor} = 20 \times \log(0.432) \text{ dB}$$

$$= - 7.3 \text{ dB}$$

Remarks:

Average factor of three buttons are measured and the worst case average factor is shown above.

6.3 Radiated Emissions

Test Requirement: FCC Part15 Subpart C Section 15.231(b)
 Test Method: ANSI C63.4
 Test Date: 21-03-2013
 Frequency Range: 30MHz to 4340MHz
 Measurement Distance: 3m
 Detector: Peak for pre-scan (120kHz resolution bandwidth)
 Quasi-Peak if maximised peak within 6dB of limit

Start frequency (MHz)	Stop frequency (MHz)	Resolution bandwidth	Video bandwidth	Step size	Measurement time	Detector
30	1000	120 kHz	1 MHz	40 kHz	100ms	Peak
1000	4340	1 MHz	3 MHz	400 kHz	100ms	Peak

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6.3.1 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 6dB of the limit line. Final measurement was conducted in the open area test site with data as follows:

Test results on operation with control for transmission mode (Fundamental frequency of Transmitter at 318MHz):

Frequency (MHz)	Antenna Polarization	Correction Factor (dB/m)	Receiver Reading (dBµV)	Emission Level (dBµV/m)	PK Limit (dBµV/m)	Over Limit (dB)
318.00	V	11.7	47.6	59.3	95.8	-36.5
636.00	V	18.4	11.8	30.2	75.8	-45.6
954.00	V	24.9	25.6	50.5	75.8	-25.3
1590.00	V	31.4	8.4	39.8	75.8	-36.0
1908.00	V	33.8	12.2	46.0	75.8	-29.8
2226.00	V	35.1	12.2	47.3	75.8	-28.5
318.00	H	11.7	66.8	78.5	95.8	-17.3
636.00	H	18.4	14.2	32.6	75.8	-43.2
954.00	H	24.9	32.8	57.7	75.8	-18.1
1272.00	H	30.0	15.0	45.0	75.8	-30.8
1590.00	H	31.4	17.3	48.7	75.8	-27.1
1908.00	H	33.8	14.4	48.2	75.8	-27.6
2226.00	H	35.1	16.8	51.9	75.8	-23.9

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Frequency (MHz)	Antenna Polarization	Detector	Emission Level (dB μ V/m)	Average Factor (dB)	Calculated Average Value (dB μ V/m)	AV Limit (dB μ V/m)	Over Limit (dB)
318.00	V	Peak	59.4	-7.3	52.1	75.8	-23.7
636.00	V	Peak	30.3	-7.3	23.0	55.8	-32.8
954.00	V	Peak	50.6	-7.3	43.4	55.8	-12.4
1590.00	V	Peak	39.8	-7.3	32.5	55.8	-23.3
1908.00	V	Peak	46.0	-7.3	38.7	55.8	-17.1
2226.00	V	Peak	47.3	-7.3	40.0	55.8	-15.8
318.00	H	Peak	78.6	-7.3	71.3	75.8	-4.5
636.00	H	Peak	32.6	-7.3	25.3	55.8	-30.5
954.00	H	Peak	57.8	-7.3	50.5	55.8	-5.3
1272.00	H	Peak	45.0	-7.3	37.7	55.8	-18.1
1590.00	H	Peak	48.7	-7.3	41.4	55.8	-14.4
1908.00	H	Peak	48.2	-7.3	40.9	55.8	-14.9
2226.00	H	Peak	51.9	-7.3	44.6	55.8	-11.2

Note:

1) Correction Factor = Antenna Factor + Cable Loss.

2) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively.

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6.3.2 Measurement Data

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Test results on operation with control for transmission mode (Fundamental frequency of Transmitter at 433MHz):

Frequency (MHz)	Antenna Polarization	Correction Factor (dB/m)	Receiver Reading (dBµV)	Emission Level (dBµV/m)	PK Limit (dBµV/m)	Over Limit (dB)
433.92	V	14.4	53.5	67.9	100.8	-32.9
867.84	V	23.0	34.8	57.8	80.8	-23.0
1301.76	V	30.1	19.2	49.3	80.8	-31.5
1735.68	V	32.4	26.0	58.4	80.8	-22.4
2169.60	V	35.0	28.5	63.5	80.8	-17.3
433.92	H	14.4	59.8	74.2	100.8	-26.6
867.84	H	23.0	41.1	64.1	80.8	-16.7
1301.76	H	30.1	10.4	40.5	80.8	-40.3
1735.68	H	32.4	18.3	50.7	80.8	-30.1
2169.60	H	35.0	19.1	54.1	80.8	-26.7

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Frequency (MHz)	Antenna Polarization	Detector	Emission Level (dB μ V/m)	Average Factor (dB)	Calculated Average Value (dB μ V/m)	AV Limit (dB μ V/m)	Over Limit (dB)
433.92	V	Peak	67.9	-7.3	60.6	80.8	-20.2
867.84	V	Peak	57.9	-7.3	50.6	60.8	-10.2
1301.76	V	Peak	49.3	-7.3	42.0	60.8	-18.8
1735.68	V	Peak	58.5	-7.3	51.2	60.8	-9.6
2169.60	V	Peak	63.5	-7.3	56.2	60.8	-4.6
433.92	H	Peak	74.3	-7.3	67.0	80.8	-13.8
867.84	H	Peak	64.2	-7.3	56.9	60.8	-3.9
1301.76	H	Peak	40.5	-7.3	33.2	60.8	-27.6
1735.68	H	Peak	50.8	-7.3	43.5	60.8	-17.3
2169.60	H	Peak	54.1	-7.3	46.8	60.8	-14.0

Note:

1) Correction Factor = Antenna Factor + Cable Loss.

2) The above results were the worst case results with the EUT positioned in all 3 axis during the test. The EUT was positioned vertically and horizontally on the table for vertical and horizontal measurement respectively.

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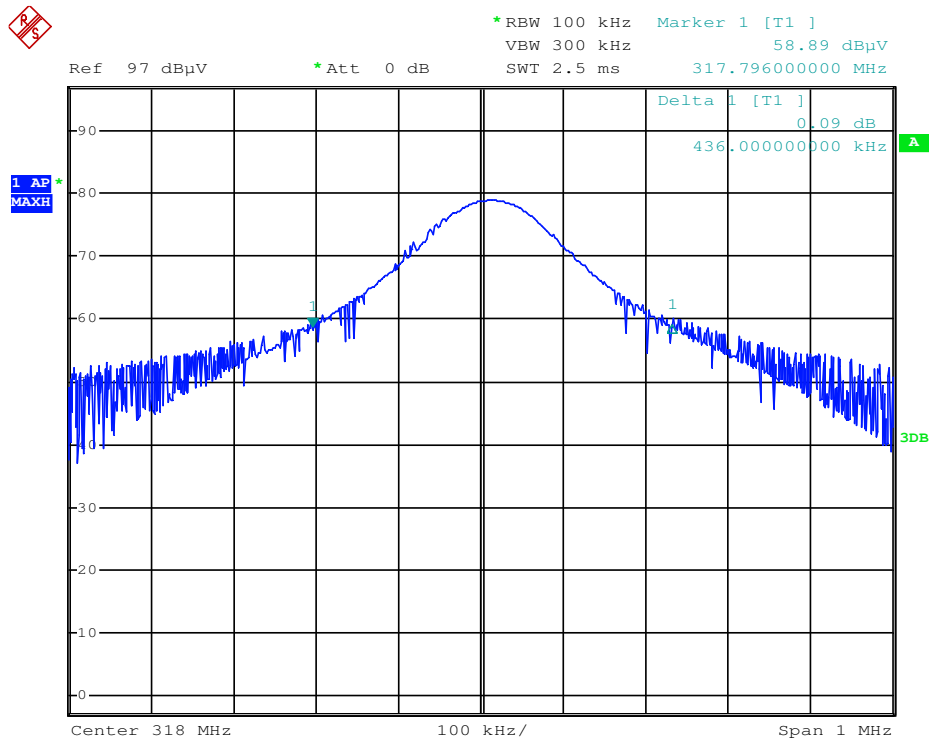
6.4 Bandwidth

Test Requirement: FCC Part15 Subpart C Section 15.231(C)
 Test Method: ANSI C63.4
 Test Date: 09-04-2013

6.4.1 Measurement data

Frequency Domain Plots (Fundamental frequency of Transmitter at 318MHz):

Test results on operation with control for transmission mode :



Date: 16.APR.2013 09:47:14

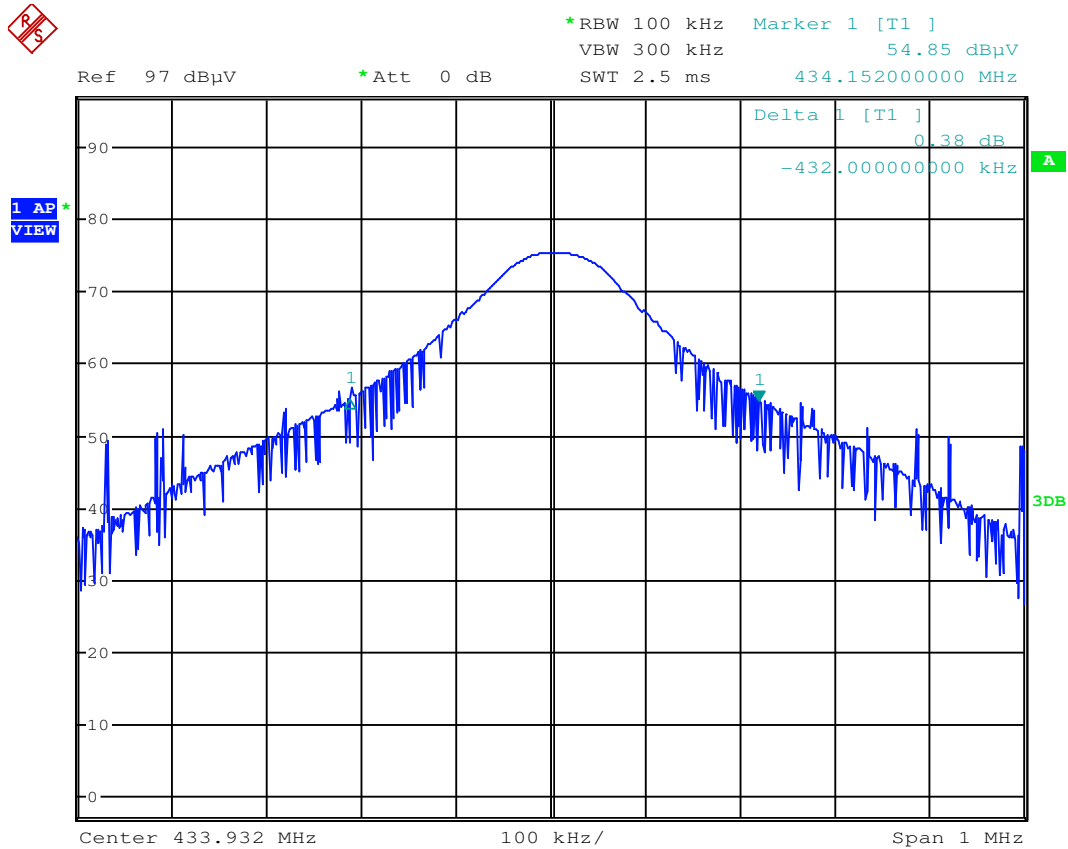
Measured Occupied Bandwidth (kHz)	Limit (KHz)
436	795

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6.4.2 Measurement data

Frequency Domain Plots (Fundamental frequency of Transmitter at 433MHz):
Test results on operation with control for transmission mode :



Date: 16.APR.2013 09:51:30

Measured Occupied Bandwidth (kHz)	Limit (KHz)
432	1084.8

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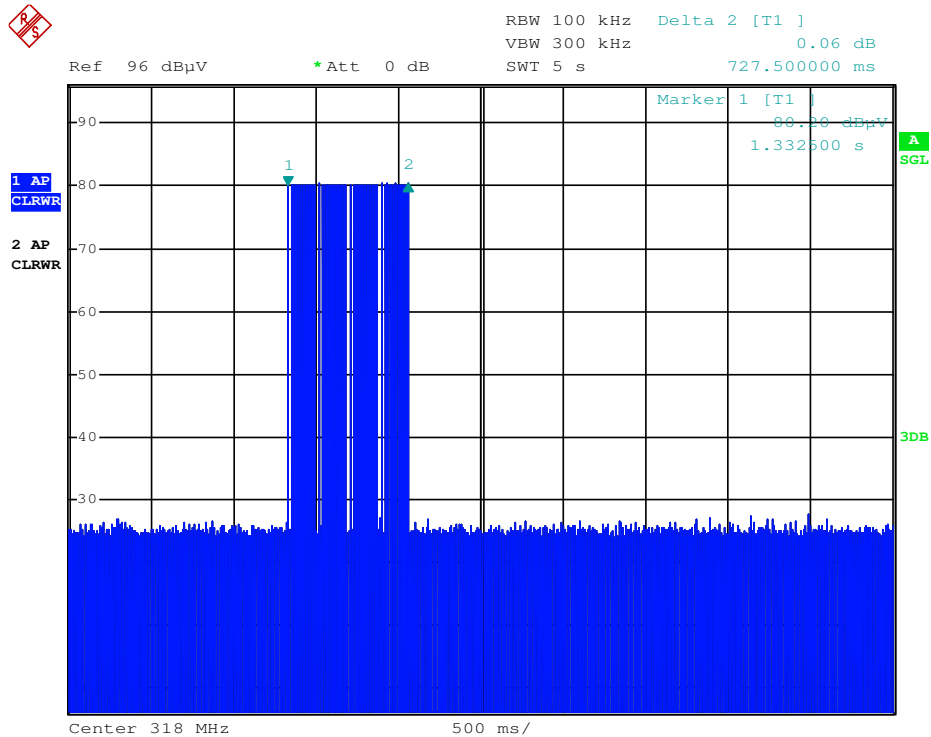
6.5 Provision of Momentary operation

Test Requirement: FCC Part15 Subpart C Section 15.231(a) (1)
 Test Method: ANSI C63.4
 Test Date: 09-04-2013

6.5.1 Measurement data

Time Domain Plots (Fundamental frequency of Transmitter at 318MHz):

Test results on operation with control for transmission mode :



Date: 16.APR.2013 08:37:18

The time of stopping transmission after switch releasing (s)	Limit (s)
727.5ms	5.00

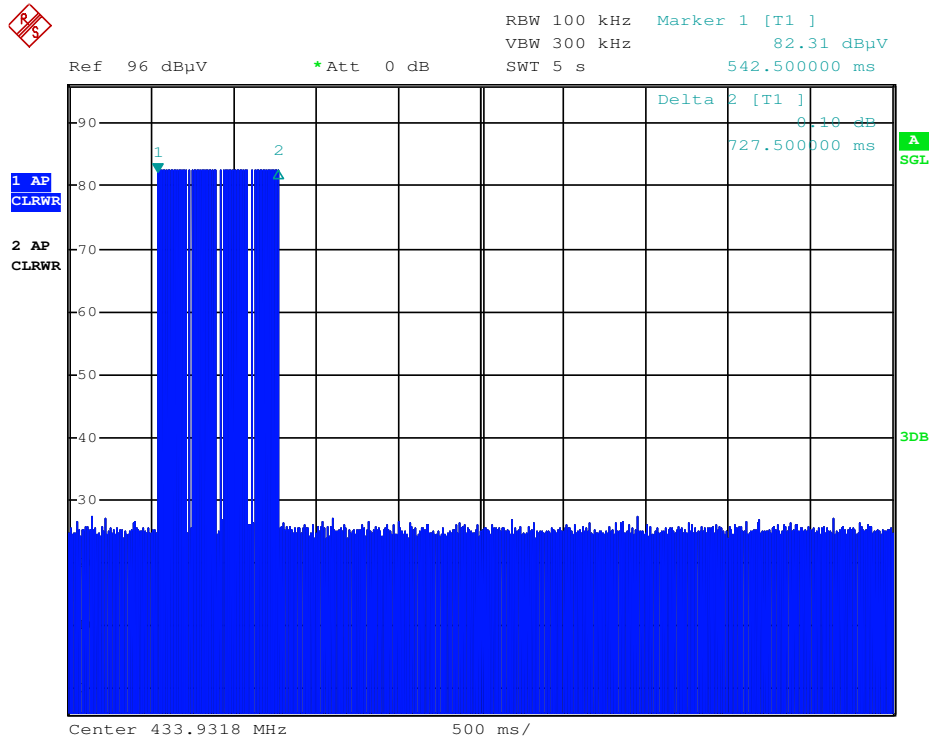
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6.5.2 Measurement data

Time Domain Plots (Fundamental frequency of Transmitter at 433MHz):

Test results on operation with control for transmission mode :



Date: 16.APR.2013 08:38:41

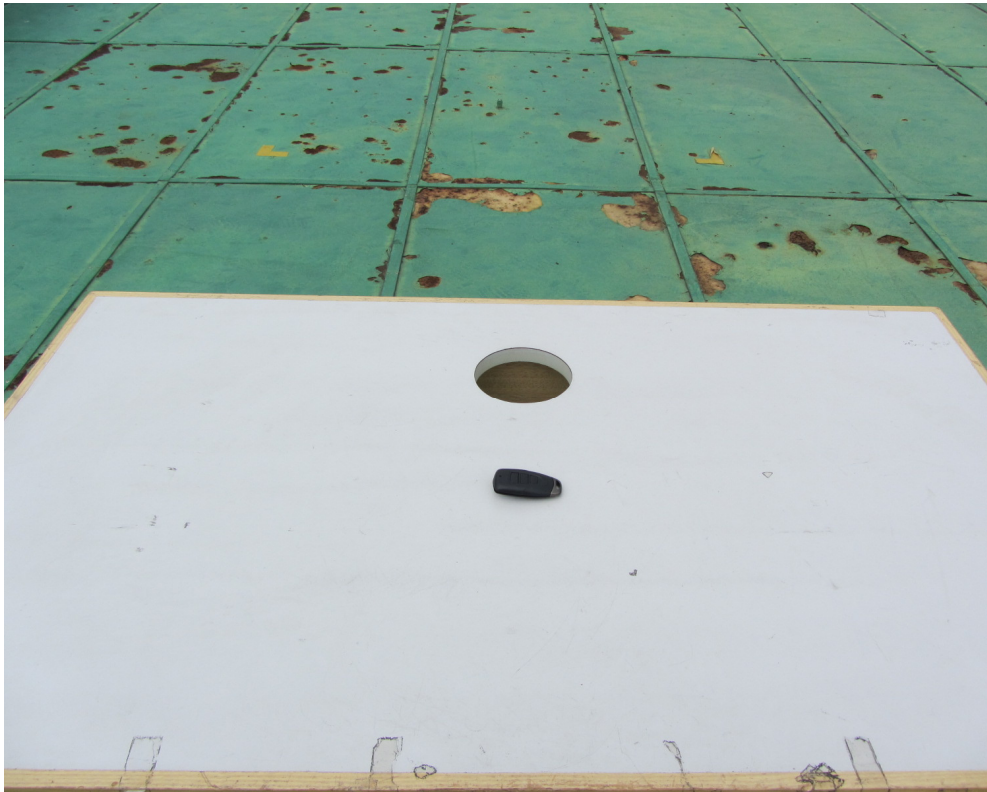
The time of stopping transmission after switch releasing (s)	Limit (s)
727.5ms	5.00

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Photographs

6.6 Radiatd Emission Test Setup



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6.7 EUT Constructional Details



- END -

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