

FCC Test Report

E4064280801AG

Type / Model Name: TD-318

Trade name: SkylinkHome™

Product Description: LCD Deluxe Remote Transmitter

Applicant: Capital Prospect Ltd.

FCC ID: KUTTD318

FCC --- TEST REPORT

Test Report No. :	E4064280801AG	May 30, 2012 Date of issue
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Type / Model Name : TD-318

Product Description : LCD Deluxe Remote Transmitter

Applicant : Capital Prospect Ltd.

Address : Rm. 1303, 13/F, Block B, Veristrong Ind. Centre,
36 AupuiWan Street, Fo Tan,
Hong Kong

Test Result according to the standards listed in clause 1 test standards:	POSITIVE
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test results without the written permission of the test laboratory.

File No. **E4064280801AG**

Contents

1	<u>TEST STANDARDS</u>	4
2	<u>SUMMARY</u>	5
3	<u>EQUIPMENT UNDER TEST</u>	6
3.1	PHOTO DOCUMENTATION OF THE EUT	6
3.2	POWER SUPPLY SYSTEM UTILISED	7
3.3	SHORT DESCRIPTION OF THE EQUIPMENT UNDER TEST (EUT)	7
4	<u>TEST ENVIRONMENT</u>	8
4.1	ADDRESS OF THE TEST LABORATORY	8
4.2	ENVIRONMENTAL CONDITIONS	8
4.3	STATEMENT OF THE MEASUREMENT UNCERTAINTY	8
5	<u>TEST CONDITIONS AND RESULTS</u>	9
5.1	ANTENNA REQUIREMENT	9
5.2	AVERAGE FACTOR	10
5.3	RADIATED EMISSION	13
5.4	BANDWIDTH	15
5.5	PROVISION OF MOMENTARY OPERATION	16
6	<u>USED TEST EQUIPMENT AND ACCESSORIES</u>	17

File No. **E4064280801AG**

1 TEST STANDARDS

The tests were performed according to following standards:

FCC Part 15:2010-10-01

Federal Communications Commission, Part 15 – Radio Frequency Device

ANSI C63.4:2003

American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

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4_F510_65_Rev1_0 / Date of release: 2012-03-06, Author: Kidd Yang

Page 4 of 17

2 SUMMARY

GENERAL REMARKS:

N/A

FINAL ASSESSMENT:

The equipment under test fulfils the FCC requirements cited in test standard listed in section 1.

Date of receipt of test sample : 17-05-2012

Testing commenced on : 17-05-2012

Testing concluded on : 30-05-2012

Checked by:

Tested by:

Ivan Toa
Technical Manager

Alan Geng
Engineer

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4_F510_65_Rev1_0 / Date of release: 2012-03-06, Author: Kidd Yang

Page 5 of 17

3 EQUIPMENT UNDER TEST

3.1 Photo documentation of the EuT



Top View



Bottom View

File No. **E4064280801AG**

3.2 Power supply system utilised

Power supply voltage: 3Vdc (2*AAA batteries)

3.3 Short description of the Equipment under Test (EuT)

The EuT is a remote control and working with 318 MHz. The EuT is a transmitter. The EuT used to change the state of the corresponding receiver by transmitting the modulated signal. The EuT is operated with 3Vdc, two AAA batteries.

Tested samples: One Set

Serial number: Not Labelled

Dimensions: L: 11.9 cm W: 4.7 cm H: 2.8 cm

EuT operation mode:

The equipment under test was operated during the measurement under the following conditions:

- Operation mode 1: Transmitting mode

-

-

EuT configuration:

The following interface cables and peripheral devices were connected during the measurements:

Interface cables:

Interface cable	Length [m]	Type	Line		Line termination
			shielded	unshielded	
N/A					

Peripheral devices:

Kind of equipment		Model and/or Manufacturer
N/A		

File No. **E4064280801AG**

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

emitel (Shenzhen) Limited
Building 2, 171 Meihua Road,
Futian District, Shenzhen,
P.R. China

Laboratory registration numbers:

FCC Registration number: 746887

4.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature: 15-35 ° C

Humidity: 30-60 %

Atmospheric pressure: 860-1060 mbar

4.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16-4-2 /11.2003 "Uncertainties, statistics and limit modelling – Uncertainty in EMC measurements" and is documented in the quality system acc. to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer does have the sole responsibility for the continued compliance of the device.

5 TEST CONDITIONS AND RESULTS

5.1 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. Please see EuT photo for details.



The requirements of section 15.203 are **FULFILLED**.

Remarks: _____

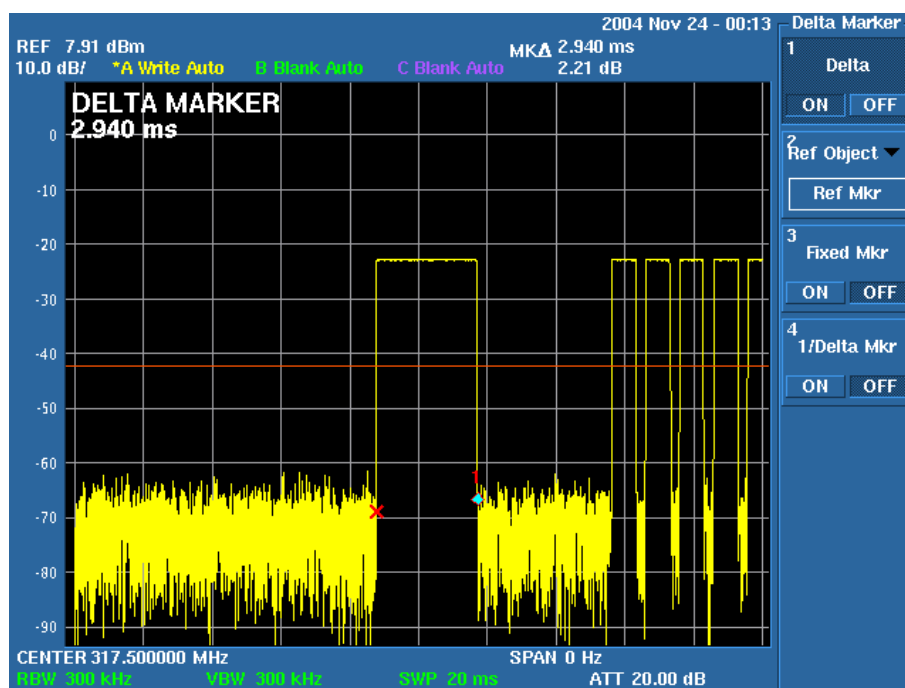
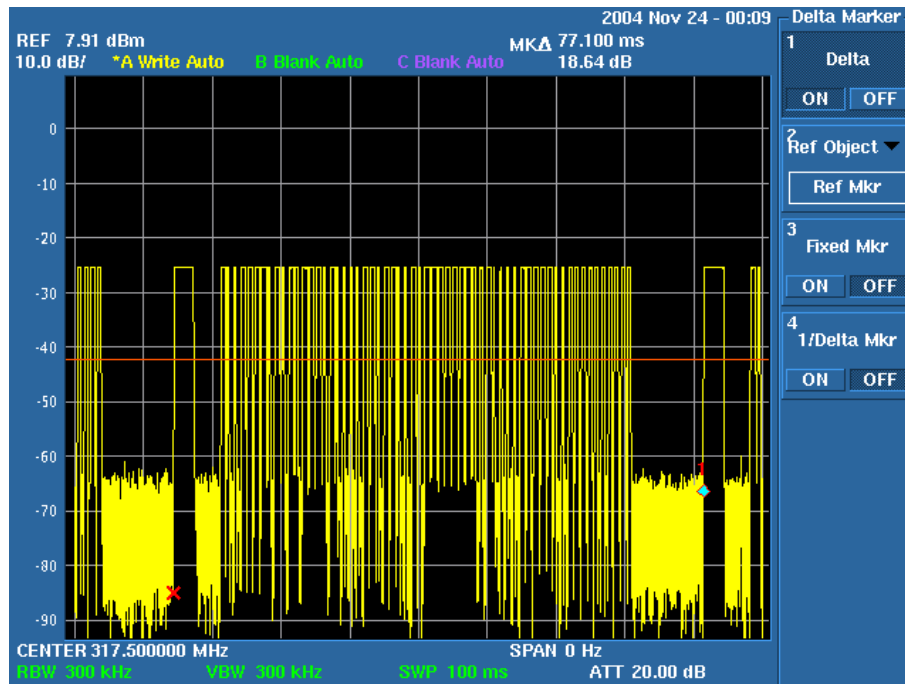
5.2 Average Factor

For test instruments and accessories used see section 6.

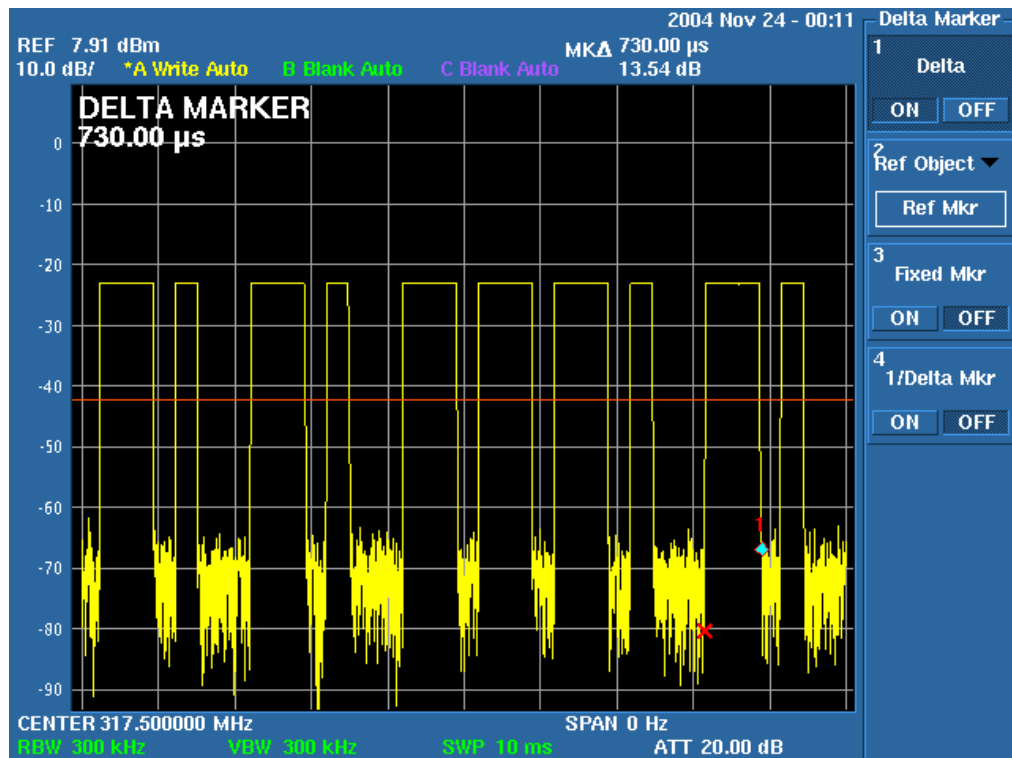
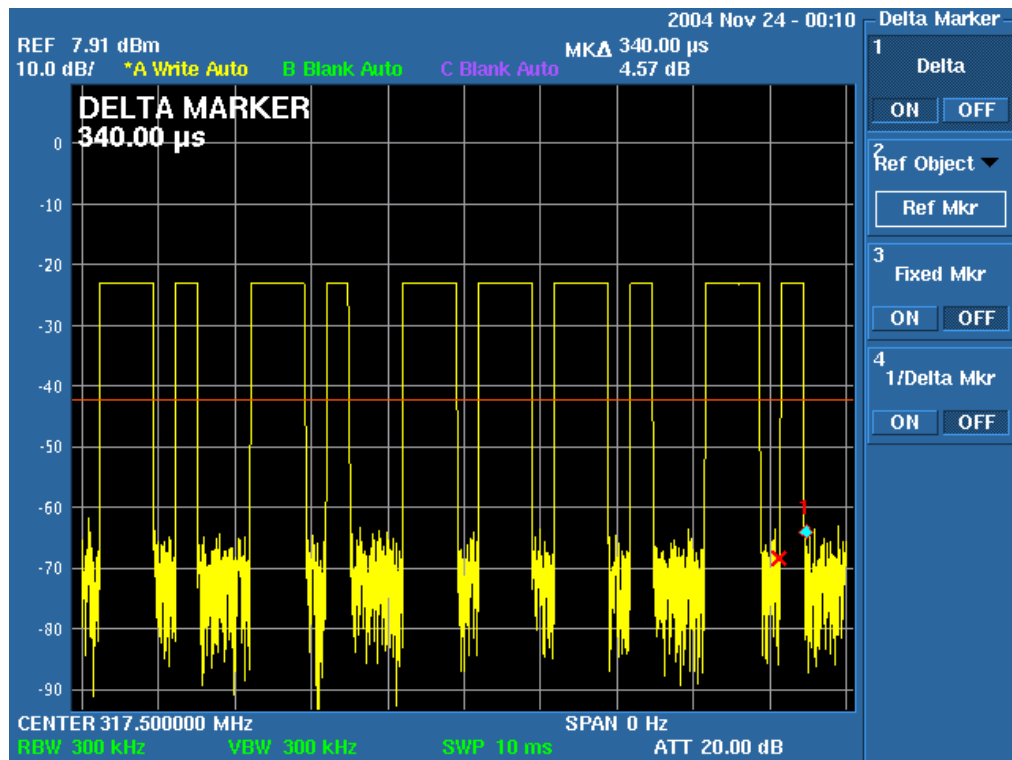
5.2.1 Description of the test location

Test location: Shield room

5.2.2 Photo documentation of test



File No. E4064280801AG



File No. E4064280801AG

5.2.3 Test result

whole period=77.10ms<100ms
Pulse 1= 0.730ms; Pulse 2=0.340ms; Pulse 3=2.940ms
$T_{on}=(0.730*40+0.340*20+2.940*1)ms=38.94ms$
Average factor= $20\log(38.94ms/77.10ms)=20\log(0.505)=-5.9dB$

Remarks: Average factor of all buttons are measured and the worst case average factor is reported above.

5.3 Radiated Emission

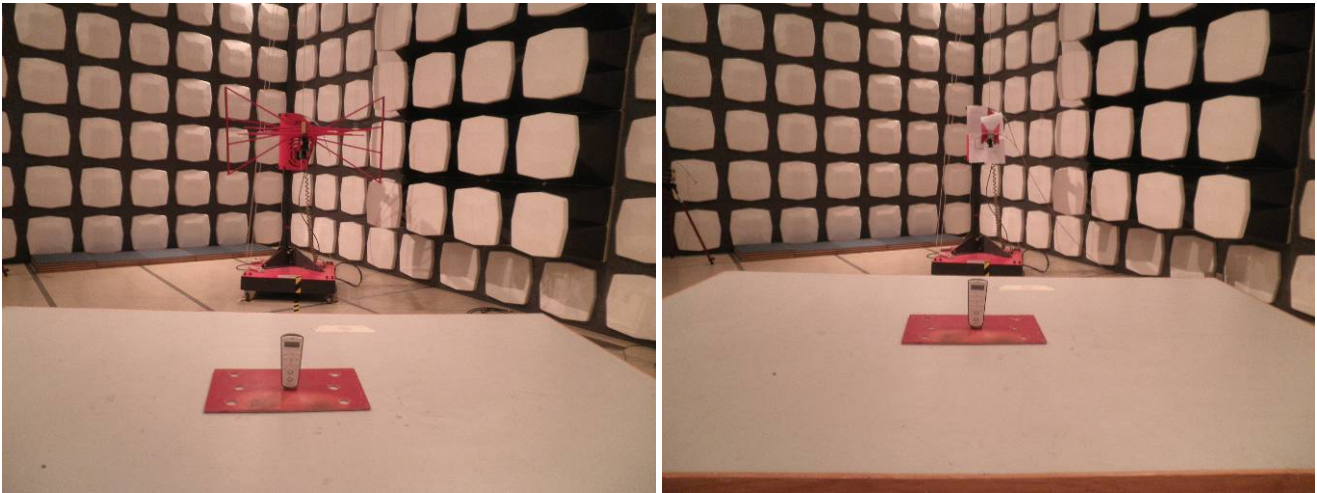
For test instruments and accessories used see section 6.

5.3.1 Description of the test location

Test location: Semi-anechoic Chamber

Test distance: 3m

5.3.2 Photo documentation of test



5.3.3 Test result

Frequency range: 30MHz to 3180MHz

Min. limit margin: -3.2dB

The requirements of section 15.231(b) are **FULFILLED**.

Remarks: 1) The emission lower than 20dB below the limit are not measured.
2) Testing is include the rotation of the EUT through three orthogonal axes to determine the maximum emission.

5.3.4 Test protocol

Product Description: LCD Deluxe Remote Transmitter Result: PASS
 Operation mode: Transmitting mode
 Date: May 22, 2012
 Tested by: Kidd Yang

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	3180	1 MHz	3 MHz	400 KHz	100ms	Peak

Polarization	Frequency (MHz)	Read Value (dBuV/m)	Antenna Factor(dB)	Cable Loss(dB)	Measured Result (dBuV/m)	PK limit (dBuV/m)	margin (dB)
V	158.76	12.4	8.1	0.8	21.2	75.8	-54.6
H	158.76	21.1	9.4	0.8	31.2	75.8	-44.6
V	317.52	48.7	14.2	1.1	64.0	95.8	-31.8
H	317.52	63.4	14.0	1.1	78.5	95.8	-17.3
V	635.04	24.8	20.0	1.9	46.6	75.8	-29.2
H	635.04	28.9	20.2	1.9	50.9	75.8	-24.9
V	952.56	22.2	22.7	2.2	47.1	75.8	-28.7
H	952.56	32.6	22.5	2.2	57.3	75.8	-18.5
V	1587.60	7.5	28.5	3.3	39.3	74.0	-34.7
H	1587.60	6.9	27.5	3.3	37.7	74.0	-36.3

Polarization	Frequency (MHz)	Detector	Measured Result (dBuV/m)	Average Factor (dB)	Calculated Average Value (dBuV/m)	AV limit (dBuV/m)	margin (dB)
V	158.76	Peak	21.2	-5.9	15.3	55.8	-40.5
H	158.76	Peak	31.2	-5.9	25.3	55.8	-30.5
V	317.52	Peak	64.0	-5.9	58.1	75.8	-17.7
H	317.52	Peak	78.5	-5.9	72.6	75.8	-3.2
V	635.04	Peak	46.6	-5.9	40.7	55.8	-15.1
H	635.04	Peak	50.9	-5.9	45.0	55.8	-10.8
V	952.56	Peak	47.1	-5.9	41.2	55.8	-14.6
H	952.56	Peak	57.3	-5.9	51.4	55.8	-4.4
V	1587.60	Peak	39.3	-5.9	33.4	54.0	-20.6
H	1587.60	Peak	37.7	-5.9	31.8	54.0	-22.2

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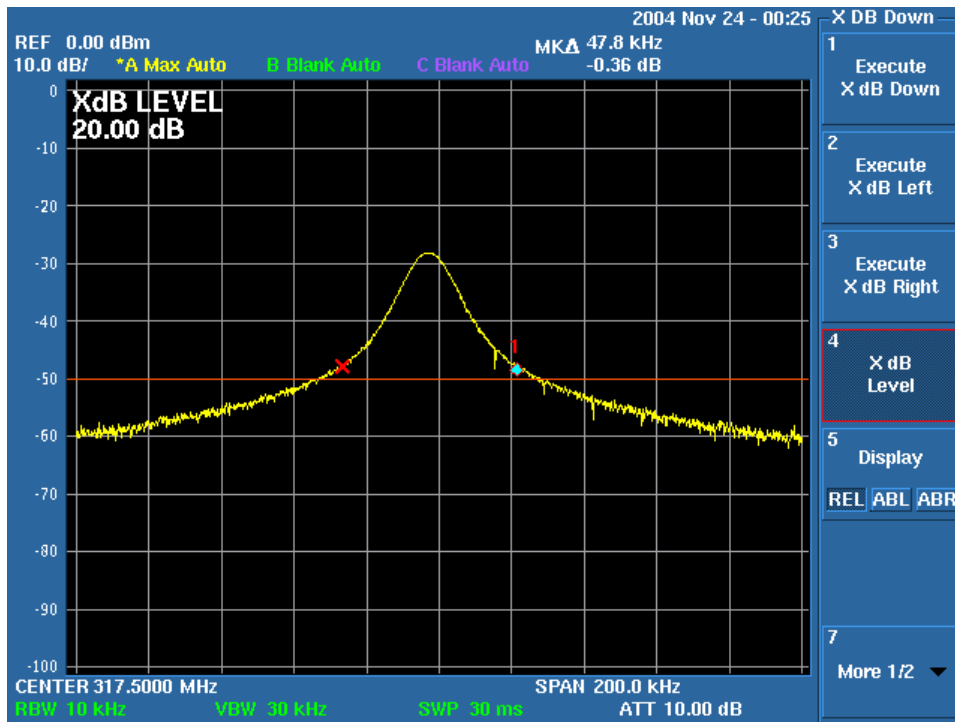
5.4 Bandwidth

For test instruments and accessories used see section 6.

5.4.1 Description of the test location

Test location: Shielded Room

5.4.2 Photo documentation of the test



5.4.3 Test result

Measured Occupied Bandwidth (kHz)	Limit (kHz)
47.8	795.0

The requirements of section 15.231(c) are **FULFILLED**

Remarks:

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4_F510_65_Rev1_0 / Date of release: 2012-03-06, Author: Kidd Yang

Page 15 of 17

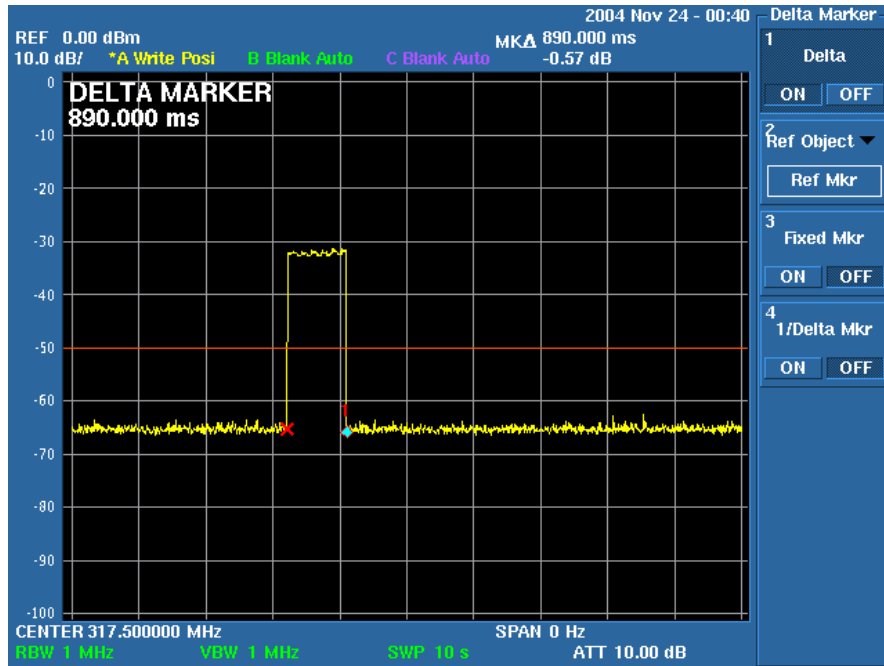
5.5 Provision of Momentary operation

For test instruments and accessories used see section 6.

5.5.1 Description of the test location

Test location: Shielded Room

5.5.2 Photo documentation of the test



5.5.3 Test result

The time of stopping transmission after switch releasing (s)	Limit (s)
0.890	5.000

The requirement of section 15.231(a)(1) is **FULFILLED**

Remarks:

6 USED TEST EQUIPMENT AND ACCESSORIES

All test instruments used, in addition to the test accessories, are calibrated and verified regularly.

Test Item	Model / Type	Kind of Equipment	Manufacturer	Next Cal. Date	Equipment no.
Radiated Emission	ESPI3	EMI Test Receiver	Rohde & Schwarz	Jun 01, 2013	04-02/03-06-002
	U3772	Spectrum Analyzer	Advantest	Jun 02, 2013	04-02/11-08-001
	3142C	Biconilog Antenna	EMCO	Feb 11,2014	04-02/24-06-001
	3117	Horn Antenna	ETS Lindgren	May 07,2013	04-02/24-07-001
Bandwidth	U3772	Spectrum Analyzer	Advantest	Jun 02, 2013	04-02/11-08-001
Momentary operation	U3772	Spectrum Analyzer	Advantest	Jun 02, 2013	04-02/11-08-001
Average Factor	U3772	Spectrum Analyzer	Advantest	Jun 02, 2013	04-02/11-08-001

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Page 17 of 17