

Test report nr. 20112IC14

Measurements performed in accordance with:

RSS-210 Issue 8 (2010)
RSS-Gen Issue 3 (2010)
RSS-102 Issue 4 (2010)

Product: Remote control (modified the product)

Tested model: MOTXR

Certification Number 6140A-MOTXR

Applicant: Nice S.p.A.
via Pezza Alta, 13
31046 Rustignè di Oderzo (TV) ITALY

Manufacturer: Nice S.p.A.
via Pezza Alta, 13
31046 Rustignè di Oderzo (TV) ITALY

Trademark: Nice

Testing Laboratory Nice S.p.A.
Via Pezza Alta, 13
31046 Rustignè di Oderzo (TV) ITALY

OATS Site Registration: 6140A-1

Date of receipt sample: 2014-01-08

Testing date: 2014-01-08 to 2014-01-14

Issue date: 22 April 2014

Tested by: L. Pastres 

Checked by: E. Campion 

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1

General Description of Equipment under Test**1.1 Applicant**

Name: Nice

Address: via Pezza Alta, 13
31046 Rustignè di Oderzo (TV)

Country: ITALY

1.2 Manufacturer

Name: Nice

Address: via Pezza Alta, 13
31046 Rustignè di Oderzo (TV)

Country: ITALY

1.3 Equipment classification

Equipment under test is a remote control for swing gate application.
The transmitter work at 433,92MHz and is classified in Category I under RSS-210.

1.4 Basic Description of equipment under test

Parameters	Value
Type of equipment:	remote control
Model:	MOTXR
Certification Number:	6140A-MOTXR
Trade Name:	Nice
Equipment category:	I
Data cable:	not applicable
Telecom cable:	not applicable
Power supply type:	6Vdc (inside battery type 2 x CR2430)
AC power input cable:	not applicable
DC power input cable:	not applicable

Model	Description
-	-

1.5 Feature of equipment under test

Parameters	Value
Power specification	6Vdc
Operating frequency:	433.92MHz
Maximum RF output power:	76.80 dB μ V/m at 3m (peak 81.99dB μ V/m at 3m)
Occupied Bandwidth (99% BW):	39.0kHz
Emission Designator (ITU):	39K0A1D
Modulation:	AM (OOK On Off Key)
Channel spacing:	not applicable
Antenna:	integral
Rx Sensitivity:	not applicable
Main SW identification:	Not applicable
Main HW board identification:	158-A
Peripherals included (for system application):	not applicable
Interfaces:	not applicable
Integrated interfaces	not applicable
AC adapter:	not applicable
Radio Frequency Exposure according to RSS-102:	The equipment under test is comply to RSS-102 (clause 2.5) without test because the output power is less than 200mW (120,39dB μ V/m @ 3m) for general public. See Annex 1.

2

Test configuration of equipment under test

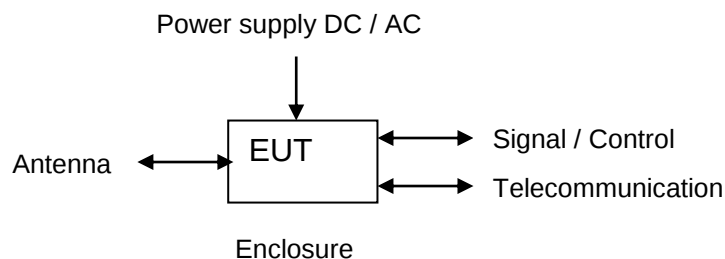
2.1 Environmental conditions

Test conditions	Measured
Ambient temperature:	20 ÷ 25°C
Relative humidity:	50 ÷ 60%
Atmospheric pressure:	900 ÷ 1010mb

2.2 Description of support equipment

Equipment	Manufacturer	Model
artificial finger for transmit	Nice	-

2.3 Interface identification and connection diagram of test system



#	Interface	Description	Maximum length	Ref. Document
1	Enclosure	-	84 x 75 x 37mm	-
2	AC mains power input	none	none	-
3	DC power port	Two battery type CR2430	none	-
4	Signal / control port	-	-	-
5	Antenna port	-	-	-

3

Operation of equipment under test

3.1 Operating test conditions

#	Description
1	transmission
2	standby

4

Tests identification and result

RSS-210 Issue 8	Title	Operating condition	Result
CPC-102	Antenna requirements	-	N/A
RSS-Gen, 7.2.4	Conduced emission	-	N/A
RSS-Gen, 7.2.5	Radiated emission	# 1 # 2	PASS
RSS-210, A1.1	Timing of the transmitter	# 1	PASS
RSS-210, A1.1.1	Transmit behaviour after releasing the TX-button	# 1	PASS
RSS-210, A1.1, Tab A	Radiated output power	# 1	PASS
RSS-210, A1.1	Typical pulse train of a signal	# 1	PASS
RSS-210, A1.1	Compliance with the limit of RSS-210	# 1	PASS
RSS-210, A1.1, Tab A	Spurious emission - radiated	# 1 # 2	PASS
RSS-210, A1.1.3	Occupied bandwidth	# 1	PASS

4.1 Methods of measurement

All compliance measurements have been carried out using the procedures described in the standard ANSI C63.4-2009, (excluding sub-par. 4.1.5.2, 5.7.9 and 14), ANSI C63.10-2009, RSS-210 and RSS-Gen.

4.2 Frequency range investigated

- a) conduced emission tests: from 9kHz to 30MHz.
- b) Radiated emission tests: from 150kHz to tenth harmonic of fundamental.

5 Tests

5.1 Antenna requirements

Specify:

Base standard:	GPC-102
----------------	---------

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 use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirements does not apply to carrier current devices or to devices operated under the provisions of RSS-Gen. Further, this requirements does not apply to intentional radiators must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

Antenna Specification:

N° of authorized antenna type:	
--------------------------------	--

Antenna type:	
---------------	--

Maximum total gain:	
---------------------	--

External power amplifiers:	
----------------------------	--

Antenna description:

No.	Manufacturer	Model Type

Comments:

-

5.2 Conducted emission

Specify:

Base standard:	RSS-Gen, 7.2.4
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- 1) The EUT was placed on wooden table size 80cm, raised 80cm in which is located 40cm away from the vertical wall shielded room.
- 2) Each EUT powered input cord was individually connected through a 50Ω/50μH LISN to the input power source.
- 3) Exploratory measurements were made identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
- 4) The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was than performed over the frequency range of 0,15MHz to 30MHz.
- 5) The measurements were made with the detector set to PEAK and AVERAGE amplitude within a bandwidth of 10kHz during the measurements.
- 6) The measurements with Quasi-Peak detector are performed only for frequencies for which the Peak values are $\geq$ (Q.P. limit — 6dB)

Test Requirements:

Test Setup:	ANSI C63.4
Limit of mains terminal disturbance voltage:	RSS-Gen, A7.2.4
Frequency range:	9kHz — 150kHz 150kHz — 30MHz
IF Bandwidth:	200Hz 9kHz
EMC class	B

Limits ⁽¹⁾:

Frequency [MHz]	Quasi-Peak (dBμV)	Average (dBμV)
0,15 — 0,5	66 — 56	56 — 46
0,5 — 5	56	46
5 — 30	60	50

Note: (1) The lower limit shall apply at the transition frequencies.

—— (2) The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.

Test Data:

Port under test	Operating condition	Result
AC mains power input port	#1	Complies

Comments:

-

5.3 Radiated emission

Specify:

Base standard:	RSS-Gen, 7.2.5
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- 1) The EUT was placed on turntable which is 0,8m above the ground plane.
- 2) The turntable shall rotate from 0° to 360° degrees to determine the position of maximum emission level.
- 3) The EUT is positioned 3m away from the receiving antenna which varied from 1 to 4m to find the highest emission.
- 4) The measurements were made with the detector set to PEAK and AVERAGE amplitude within a bandwidth of 100kHz below 1000MHz and 1MHz above 1000MHz.
- 5) The receiving antenna was positioned in both horizontal and vertical polarization.
- 6) The measurements with Quasi-Peak detector, below 1000MHz are performed only for frequencies for which the Peak values are $\geq$ (Q.P. limit – 6dB).

Test Requirements:

Test Setup:	ANSI C63.4
Test facility:	Anechoic chamber
Test distance:	3m
Limits for radiated disturbances:	RSS-Gen, 7.2.5
Frequency range:	10kHz to 6GHz
IF bandwidth (below 150kHz):	200Hz
IF bandwidth (below 30MHz):	9kHz
IF bandwidth (below 1000MHz):	120kHz
IF bandwidth (above 1000MHz):	1MHz
EMC class:	B

Limits ⁽¹⁾:

<i>Frequency [MHz]</i>	<i>Field Strength (μV/m)</i>	<i>Measurement distance (m)</i>
0,0009 – 0,490	2400/F(kHz)	300
0,490 – 1,750	24000/F(kHz)	30
1,750 - 30	30	30
30 - 88	100	30
88 - 216	150	3
216 - 960	200	3
above 960	500	3

Note: ⁽¹⁾ to convert the measuring distance from 3m to 300m and 30m to 300m a correction factor from 40dB/decade was used

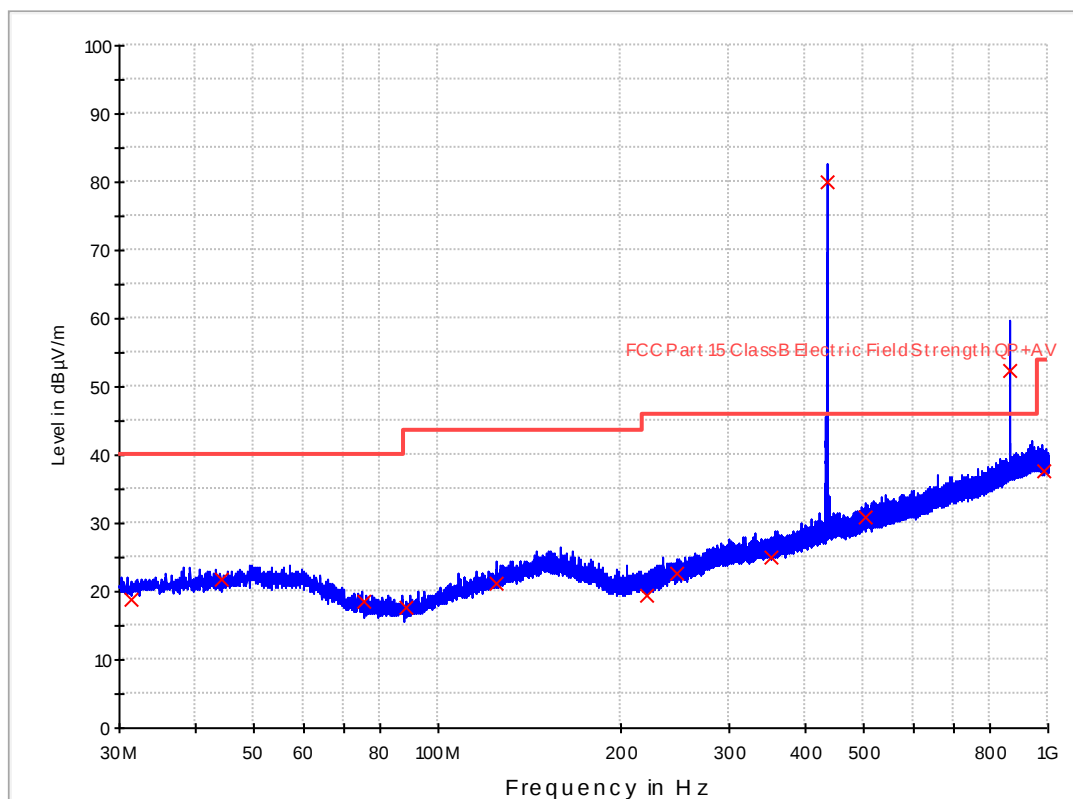
Test Data.:

<i>Port under test</i>	<i>Operating condition</i>	<i>Result</i>
Enclosure	# 1, 2	Complies

Comments:

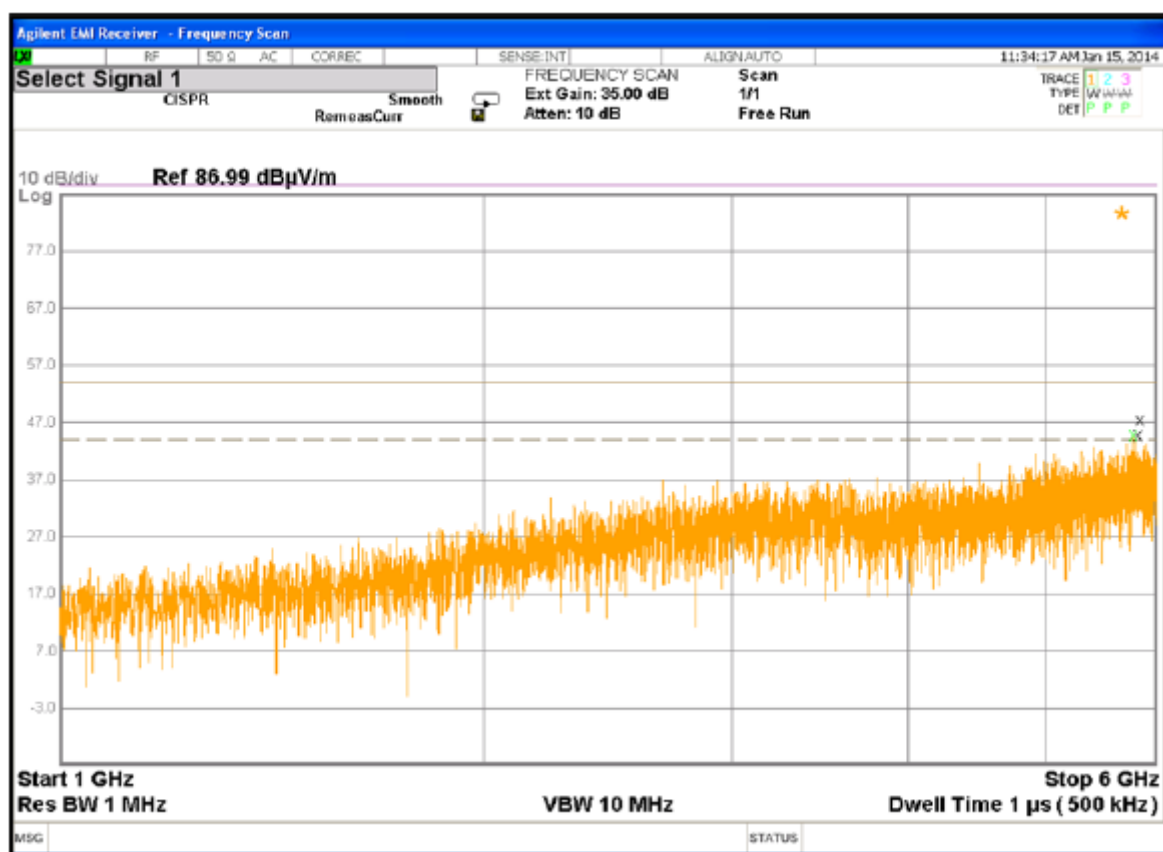
the results on this report are related to the worst case when the product was tested on three axes (X, Y, Z)
there are no emissions below 30MHz

Transmit



Result Table_Single

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Comment
31.360000	18.8	10.0	120.000	100.0	V	180.0	12.7	
44.080000	21.9	10.0	120.000	100.0	V	180.0	13.7	
75.680000	18.7	10.0	120.000	100.0	V	180.0	10.1	
88.920000	17.7	10.0	120.000	100.0	V	180.0	9.9	
124.600000	21.2	10.0	120.000	100.0	V	180.0	14.4	
219.320000	19.4	10.0	120.000	100.0	V	180.0	13.8	
246.760000	22.6	10.0	120.000	100.0	V	180.0	15.5	
352.240000	25.0	10.0	120.000	100.0	V	180.0	19.0	
433.880000	80.0	10.0	120.000	100.0	V	180.0	21.4	
502.840000	30.8	10.0	120.000	100.0	V	180.0	22.8	
867.760000	52.4	10.0	120.000	100.0	V	180.0	29.1	
987.200000	37.8	10.0	120.000	100.0	V	180.0	30.6	



Signal List

Sig	Trc	Freq	PEAK Ampl	QPD Ampl	EAVG Ampl	PEAK vs LL1	QPD vs LL1	EAVG vs LL2	RBW	RBW Type	Time Stamp	Comment
1	1	5.7710 GHz	44.519 dBuV/m	39.107 dBuV/m	31.254 dBuV/m	-9.460 dB	-14.872 dB	-1075.7351.00 dB	1.00 MHz	CISPR	2014/01/15 11:30:52	
2	1	5.7710 GHz	43.780 dBuV/m	39.135 dBuV/m	31.248 dBuV/m	-10.199 dB	-14.844 dB	-1075.7421.00 dB	1.00 MHz	CISPR	2014/01/15 11:30:30	
3	1	5.8185 GHz	44.598 dBuV/m	39.423 dBuV/m	31.525 dBuV/m	-9.382 dB	-14.556 dB	-1075.4651.00 dB	1.00 MHz	CISPR	2014/01/15 11:30:09	
4	1	5.8380 GHz	44.463 dBuV/m	39.563 dBuV/m	31.653 dBuV/m	-9.516 dB	-14.416 dB	-1075.3371.00 dB	1.00 MHz	CISPR	2014/01/15 11:29:37	

5.4 Timing of the transmitter

Specify:

Base standard:	RSS-210, A.1.1
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Unless otherwise specified, e.g. Section 15.225 (b), when the radiated emission limits are expressed in term of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0,1 seconds. As an alternative (provided the transmitter operates for longer than 0,1 seconds) or in cases where the pulse exceeds 0,1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0,1 second interval strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subjected to notification or verification.

Test requirements:

Test Setup:	RSS-210, A1.1
RBW:	1MHz
VBW:	3MHz

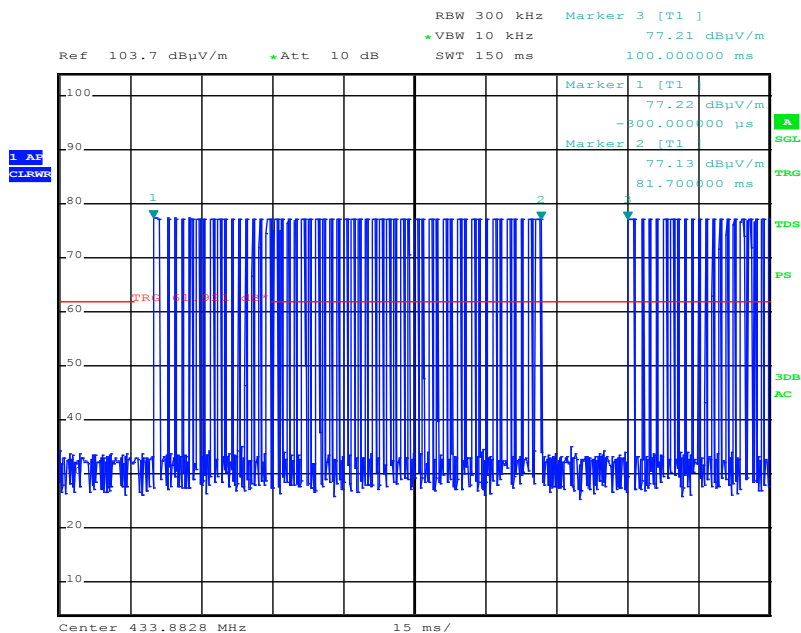
Test Data:

Timing of the transmitter:	100ms = 82.5ms + 27.5ms
Transmit button pressed shorter than:	-
Pulse train length:	82.5ms (Frame), pause 27.5ms
ON Time:	1.5ms + 52x1ms + 1.5ms = 58ms (worst case)
OFF Time:	(82.5ms - 58ms) + 27.5ms (worst case)

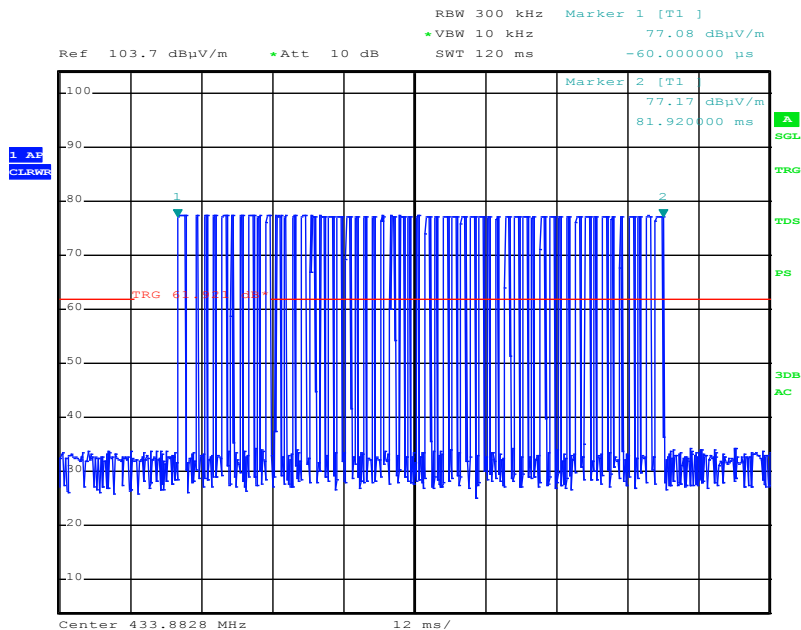
Comments:

From Technical file, the frame during 82.5ms. The pause during 27.5ms. Total Timing = 82.5ms + 27.5ms = 100ms
 The start bit during 1.5ms, the stop bit during 1.5ms. Every bit during 1.5ms.
 When bit = "1" the timing is: 1ms on and 0.5ms off
 When bit = "0" the timing is: 0.5ms on and 1ms off

Following pictures are only for view the type of impulse.



Date: 19.JUL.2012 17:36:57



Date: 19.JUL.2012 17:37:49

5.5 Transmit behaviour after releasing the TX-button

Specify:

Base standard:	RSS-210, A1.1.1
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Test requirements:

Test Setup:	RSS-210, A1.1.1
RBW:	1MHz
VBW:	3MHz

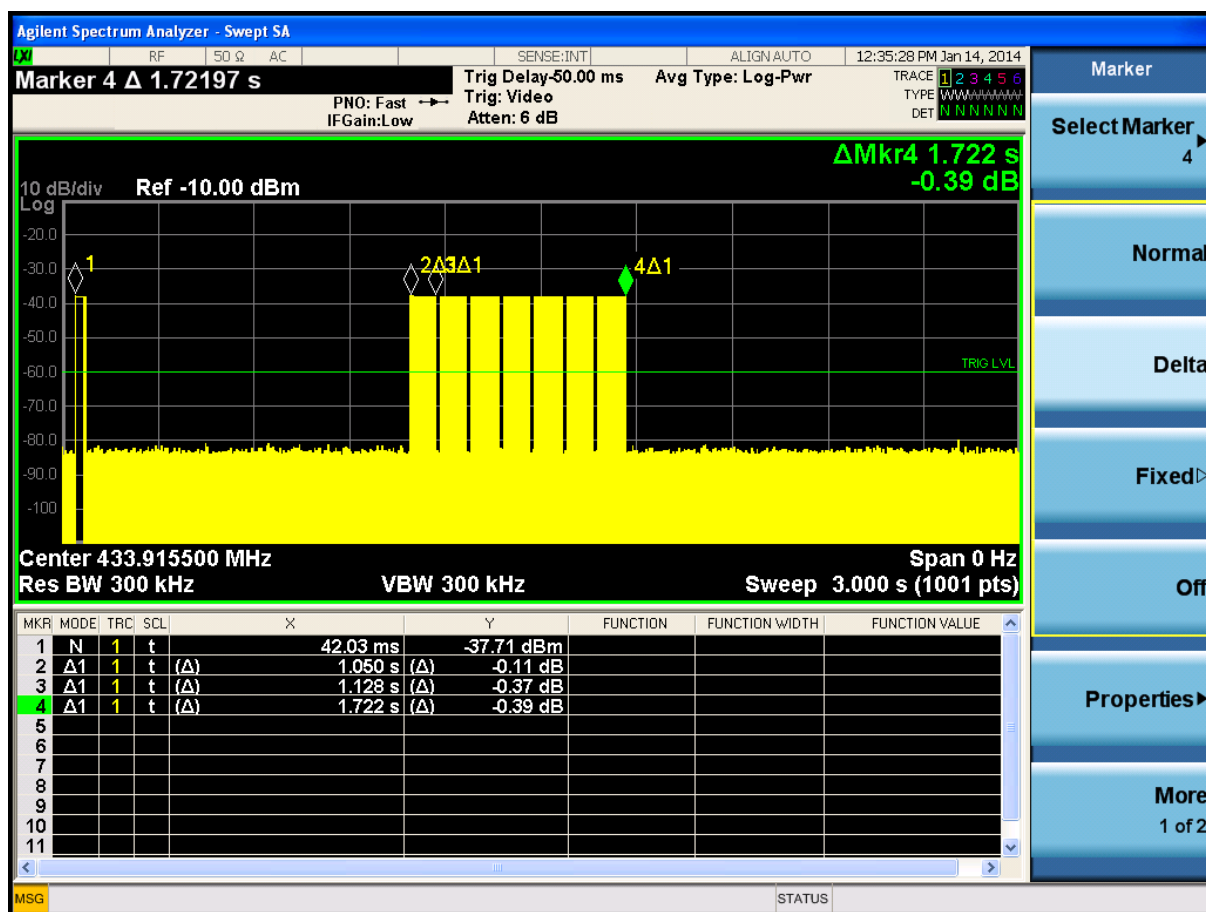
Test data:

T1:	0s
T2:	1.722s
T2-T1:	1.722s < 5s

Comments:

The worst case is when it push rapidly the button 1 two time and immediately push the left buttons. Normally the transmit stop immediately after the release of button.

At marker 1 the transmitter send a transmission because the button was pushed, at marker 2 the product stop any transmission.



5.6 Radiated output power

Specify:

Base standard: RSS-210, A1.1

Test Requirements:

RBW / VBW:

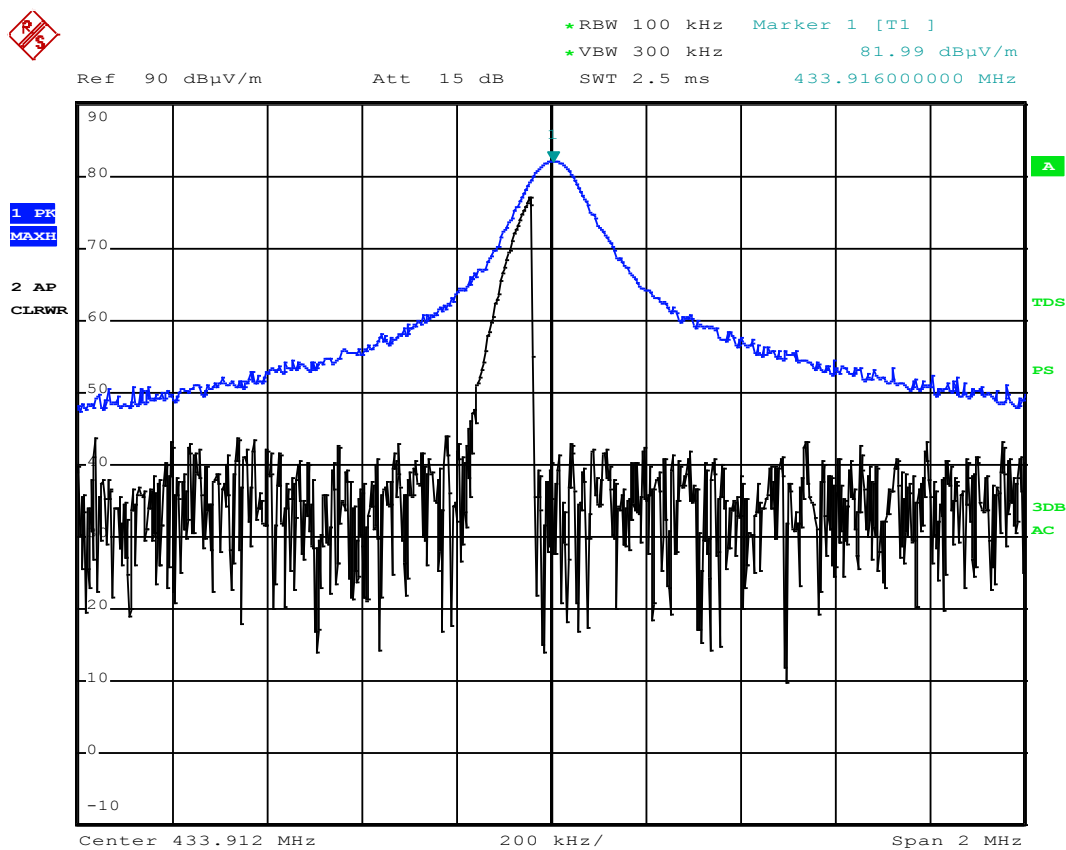
200Hz ($f < 150\text{kHz}$)
9kHz ($150\text{kHz} < f < 30\text{MHz}$)
120kHz ($30\text{MHz} < f < 1000\text{MHz}$)
1MHz ($f > 1000\text{MHz}$)

Test data:

Output radiated power (3m of distance): 81.99dB μ V/m (peak) at distance of 3m at 433,9160MHz

Comments:

the results on this report are related to the the worst case when the product was tested on three axes (X, Y, Z)



Date: 13.JAN.2014 11:25:59

5.7 Typical pulse train of a signal

Specify:

Base standard:	RSS-210, A1.1
----------------	---------------

Test Setup:

RBW:	1MHz
VBW:	3MHz

Test Data:

Duty-cycle	55%
TX on	55ms
TX off	45ms
Average correction factor ($20 \cdot \log(\text{duty cycle})$):	$20 \log (55\text{ms} / 100\text{ms}) = - 5.19\text{dB}$

Comments:

From technical file, the frame during 82.5ms. The pause during 27.5ms. Total Timing = 82.5ms + 27.5ms = 100ms

The start bit during 1.5ms, the stop bit during 1.5ms. Every bit during 1.5ms.

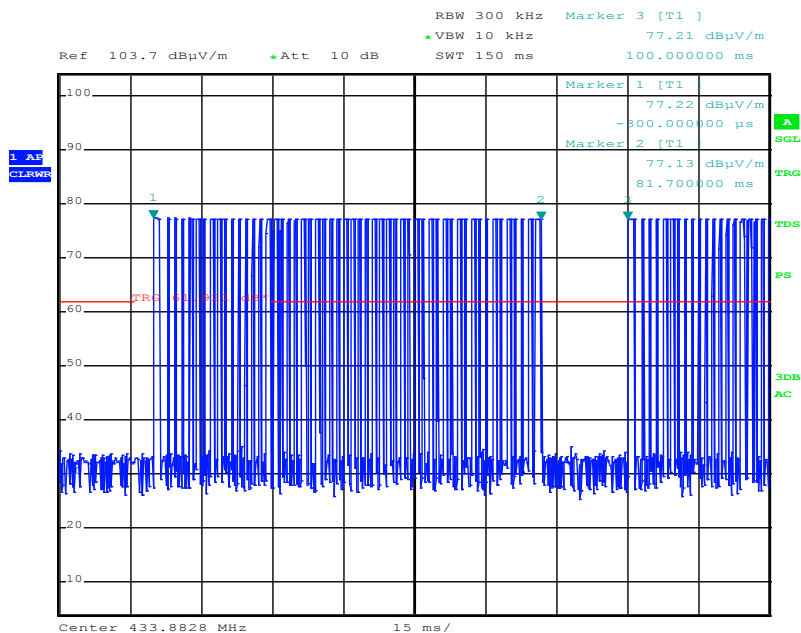
When bit = "1" the timing is: 1ms ON and 0.5ms OFF

When bit = "0" the timing is: 0.5ms ON and 1ms OFF

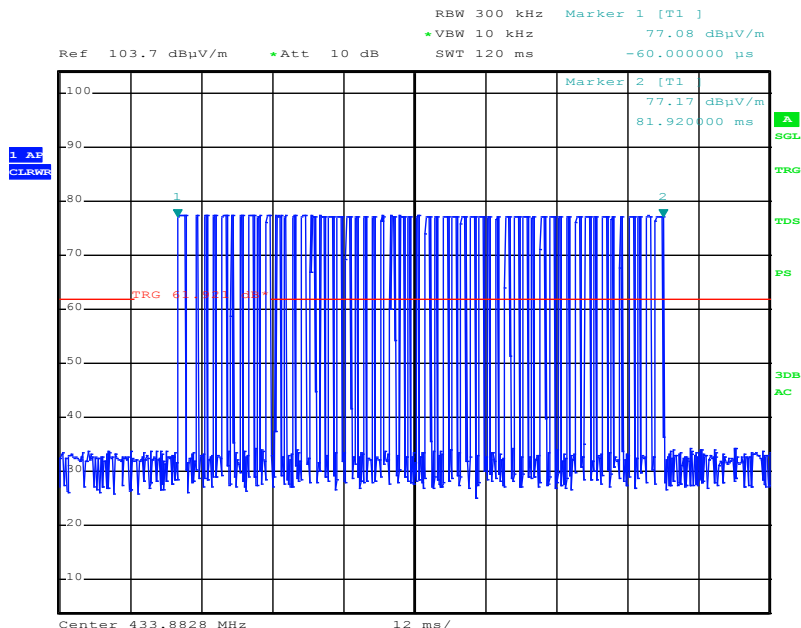
In worst case with all bit at "1" the Tx ON = 1.5ms + 52 x 1ms + 1.5ms = 55ms and Tx OFF = 100ms – 55ms = 45ms. Therefore the duty-cycle = $(55/100) \times 100 = 55\%$ in worst case.

In real case not all bit are at "1" but some are at "1" and some at "0", averaging 50%, therefore in real case the average correction is less than of worst case (with 50% bit at "1" and 50% bit at "0", the averaging correction is -11.21dB instead -5.19dB).

Following pictures are only for view the type of impulse.



Date: 19.JUL.2012 17:36:57



Date: 19.JUL.2012 17:37:49

5.8 Compliance with the limit of RSS-210

Specify:

Base standard:	RSS-210, A1.1, Tab A
----------------	----------------------

Test Setup:

RBW / VBW:	200Hz ($f < 150\text{kHz}$) 9kHz ($150\text{kHz} < f < 30\text{MHz}$) 120kHz ($30\text{MHz} < f < 1000\text{MHz}$) 1MHz ($f > 1000\text{MHz}$)
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Limits:

Frequency [MHz]	Field Strength of the fundamental	Field Strength of spurious emissions
40,66 – 40,70	See section A.2.7	
70 – 130	1 250 $\mu\text{V/m}$ / 62dB $\mu\text{V/m}$	125 $\mu\text{V/m}$ / 42dB $\mu\text{V/m}$
130 - 174	1 250 $\mu\text{V/m}$ to 3 750 $\mu\text{V/m}$ ⁽¹⁾ 62 $\mu\text{V/m}$ to 71,5 $\mu\text{V/m}$	125 $\mu\text{V/m}$ to 375 $\mu\text{V/m}$ ⁽¹⁾ 42dB $\mu\text{V/m}$ to 51,5dB $\mu\text{V/m}$
174 – 260	3 750 $\mu\text{V/m}$ / 71,5dB $\mu\text{V/m}$	375 $\mu\text{V/m}$ / 51,5dB $\mu\text{V/m}$
260 – 470	3 750 $\mu\text{V/m}$ to 12 500 $\mu\text{V/m}$ ⁽¹⁾ 71,5 dB $\mu\text{V/m}$ to 82 dB $\mu\text{V/m}$	375 $\mu\text{V/m}$ to 1 250 $\mu\text{V/m}$ ⁽¹⁾ 51,5dB $\mu\text{V/m}$ to 62dB $\mu\text{V/m}$
above 470	12 500 $\mu\text{V/m}$ / 82dB $\mu\text{V/m}$	1 250 $\mu\text{V/m}$ / 62dB $\mu\text{V/m}$

Note: ⁽¹⁾ linear interpolations
 for 130 to 174MHz the interpolation is: $56,8182 \cdot f - 6136,36$ (f in MHz)
 for 260 to 470MHz the interpolation is: $41,667 \cdot f - 7083,33$ (f in MHz)

Test Result:

Frequency:	
Calculated average (3m of distance):	(81.99 – 5.19) dB $\mu\text{V/m}$ = 76.80 dB $\mu\text{V/m}$ < 80,82 dB $\mu\text{V/m}$

Comments:

the results on this report are related to the the worst case when the product was tested on three axes (X, Y, Z)

5.9 Spurious emission - radiated

Specify:

Base standard: RSS-210, A1.1, Tab A

Test Setup:

-

Limits:

Frequency [MHz]	Field Strength of the fundamental	Field Strength of spurious emissions
40,66 – 40,70	See Section A2.7	
70 – 130	1 250µV/m / 62dBµV/m	125µV/m / 42dBµV/m
130 - 174	1 250µV/m to 3 750µV/m ⁽¹⁾ 62µV/m to 71,5µV/m	125µV/m to 375µV/m ⁽¹⁾ 42dBµV/m to 51,5dBµV/m
174 – 260	3 750µV/m / 71,5dBµV/m	375µV/m / 51,5dBµV/m
260 – 470	3 750µV/m to 12 500µV/m ⁽¹⁾ 71,5 dBµV/m to 81,9 dBµV/m	375µV/m to 1 250µV/m ⁽¹⁾ 51,5dBµV/m to 61.9dBµV/m
above 470	12 500µV/m / 81.9dBµV/m	1 250µV/m / 61.9dBµV/m

Note: ⁽¹⁾ linear interpolations
for 130 to 174MHz the interpolation is: $56,8182 \cdot f - 6136,36$ (f in MHz)
for 260 to 470MHz the interpolation is: $41,667 \cdot f - 7083,33$ (f in MHz)

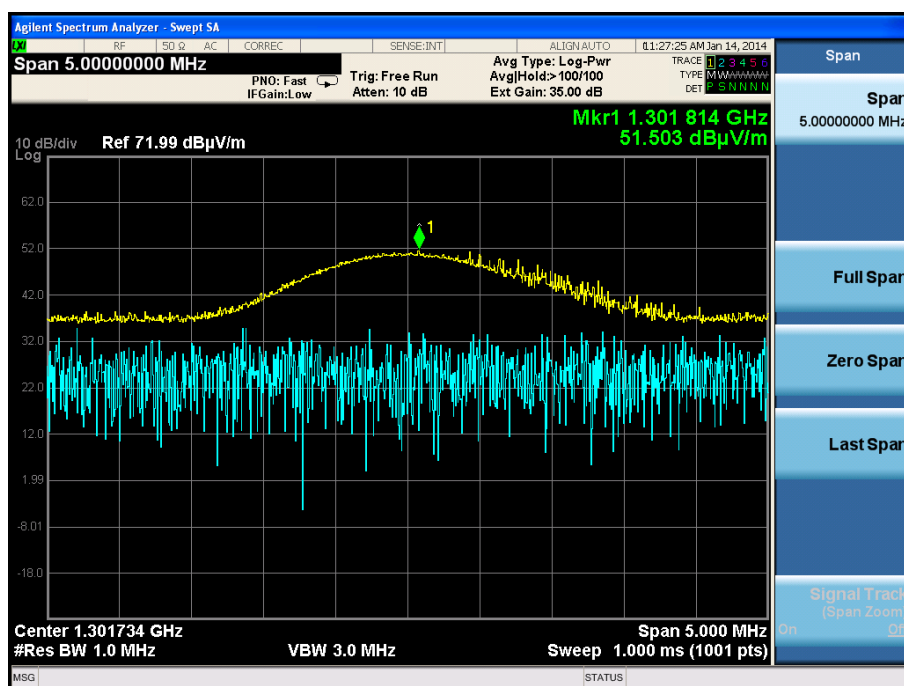
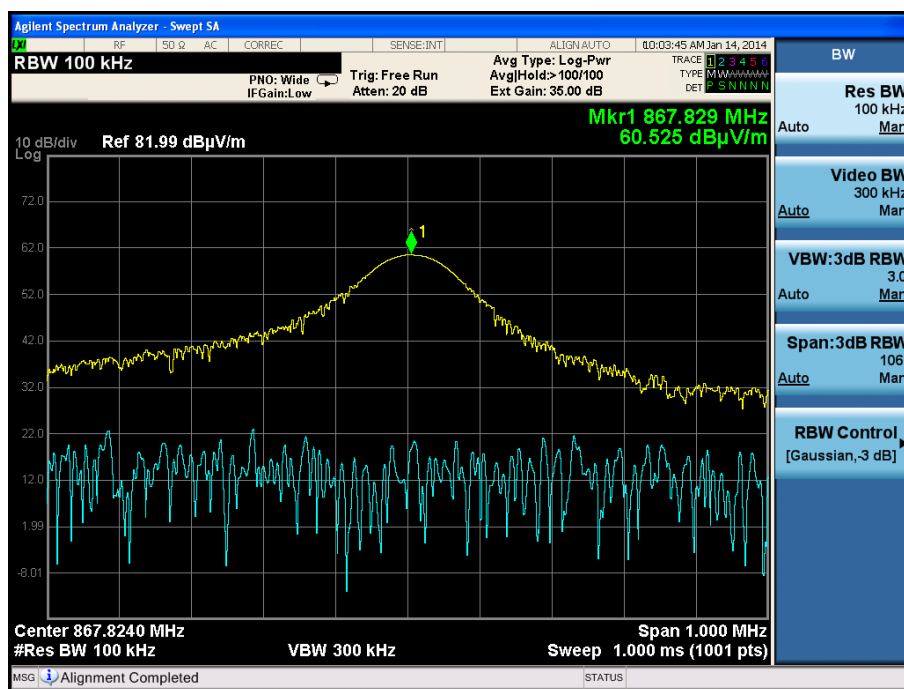
Test Result:

Frequency [MHz]	Peak Amplitude of emission (dBµV/m)	Average Amplitude of emission (dBµV/m)	Limit maximum allowed emission power (dBµV/m)	Actual attenuation below frequency of operation (dB)	Results
433.9160	81.99	76.80	80,82	4.02	operating frequency
867.829	60.52	55.33	61.9	5.29	complies
1301.814	51.50	46.31	54,0	7.69	complies
1735.564	47.33	42.14	61.9	18.68	complies
2169.459	59.24	54.05	61.9	6.77	complies
2603.439	54.62	49.43	61.9	11.39	complies
3037.519	53.93	48.74	61.9	12.08	complies
3471.154	50.25	45.06	61.9	15.76	complies
3904.334	54.34	49.15	61.9	11.67	complies
4338.824	51.84	46.65	54.0	7.35	complies

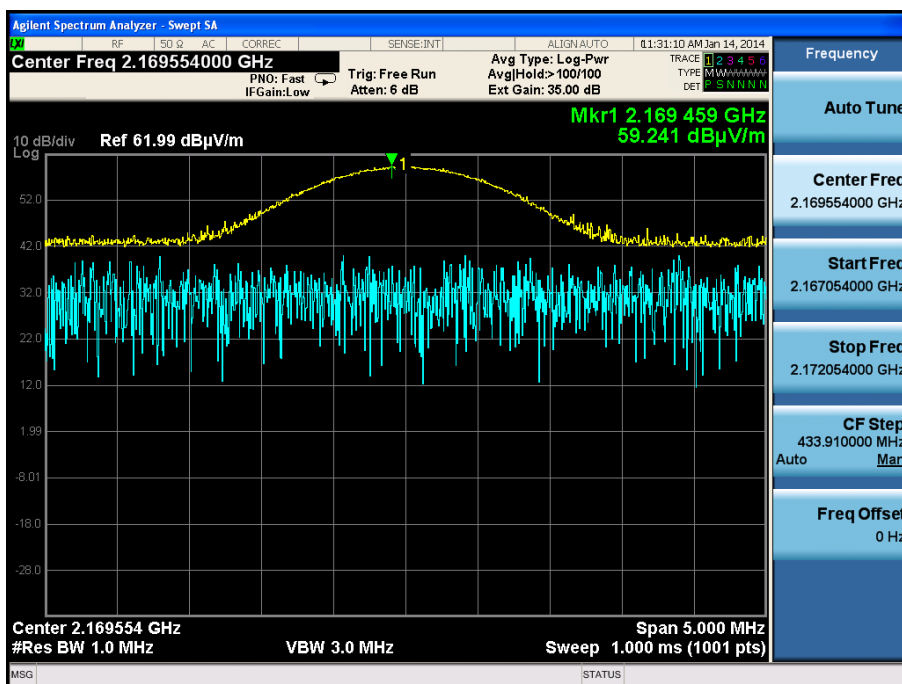
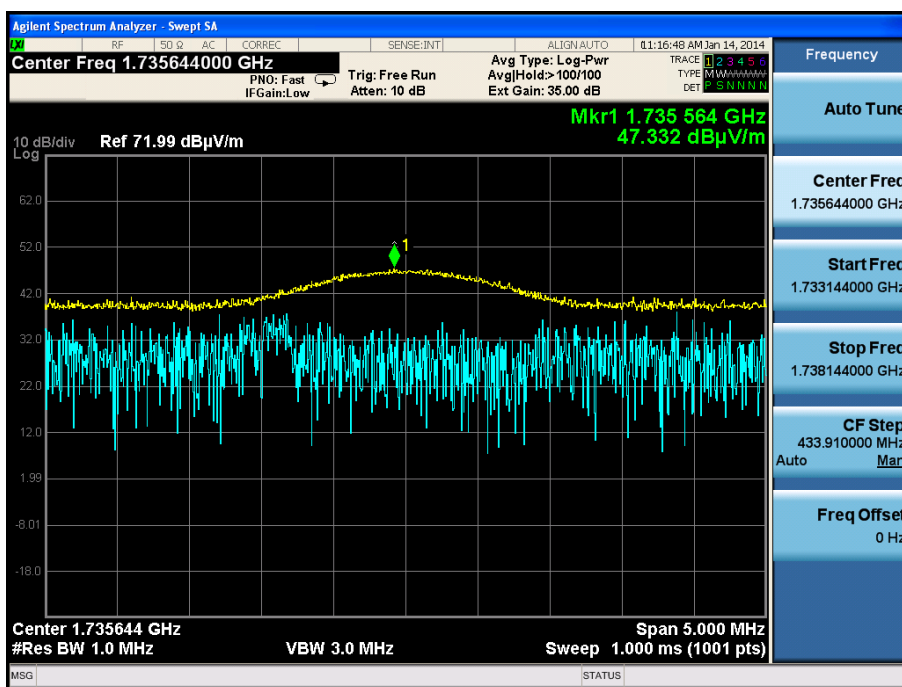
Comments:

The real margin is more than the value indicated because the averaging correction is calculated for worst case and not for real case.

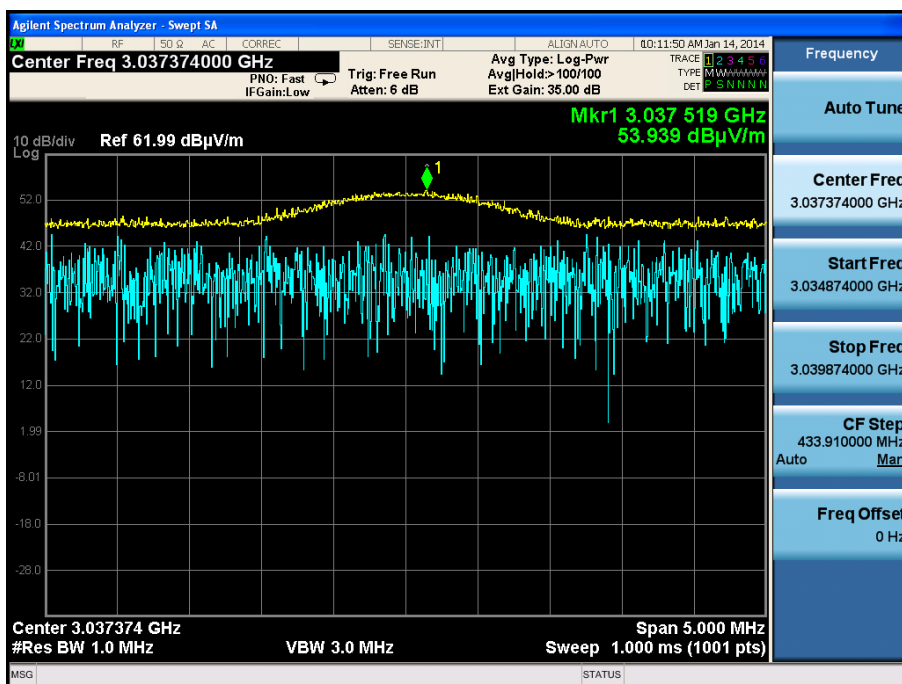
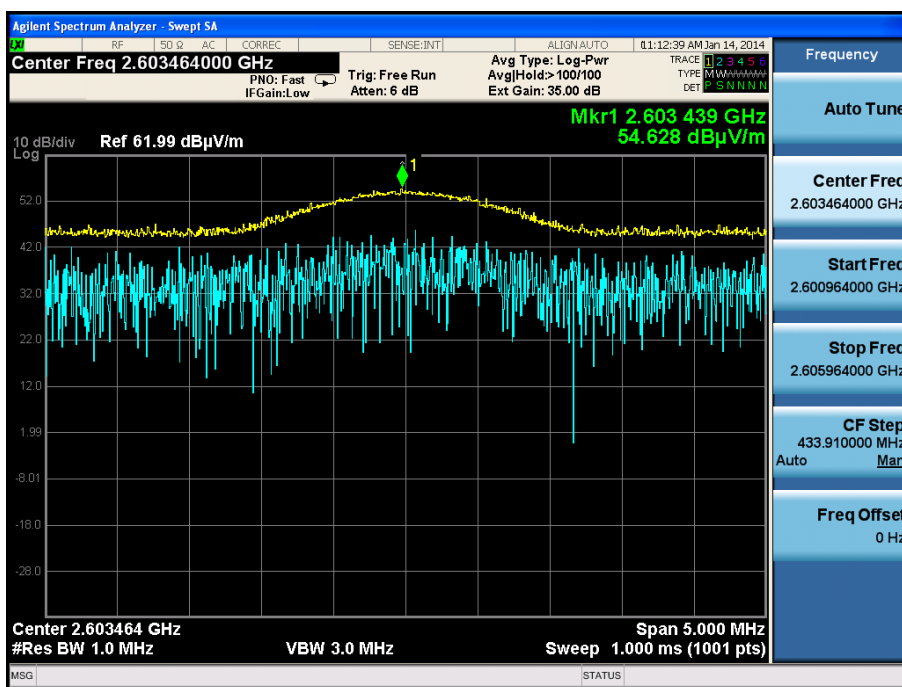
The results on this report are related to the worst case when the product was tested on three axes (X, Y, Z)



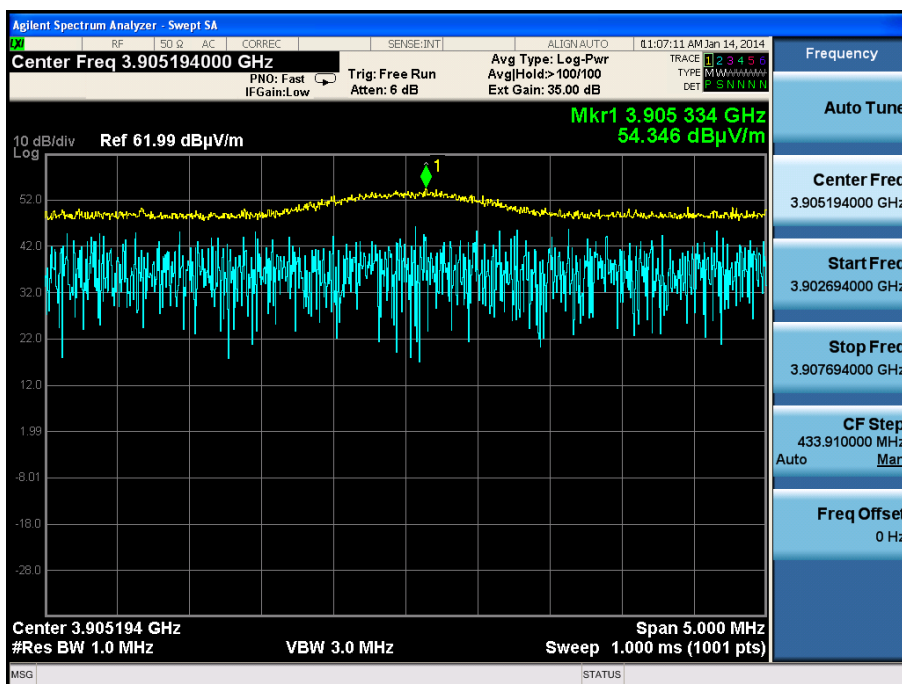
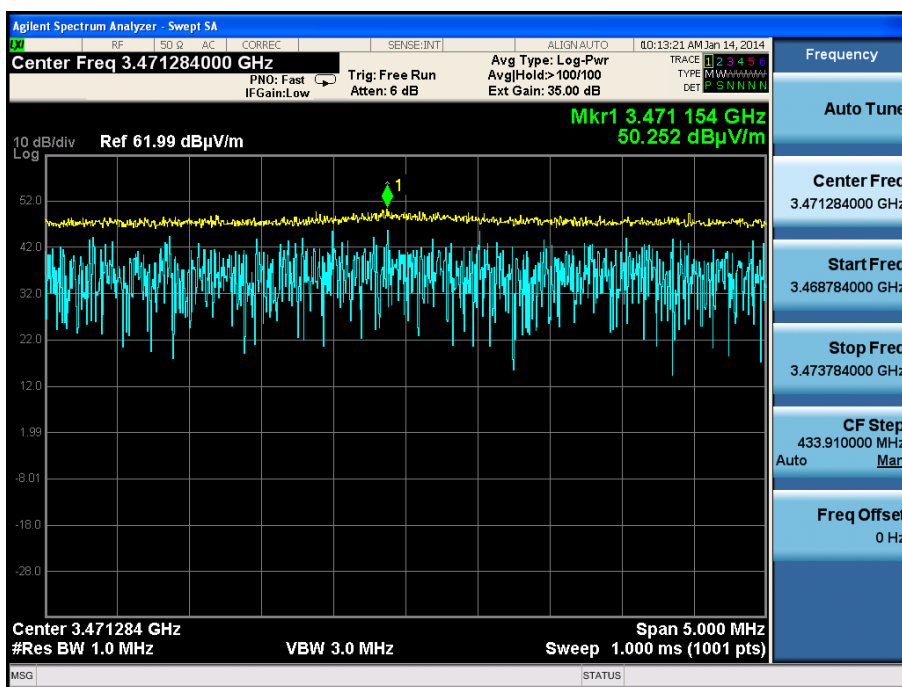
IC Canada test report



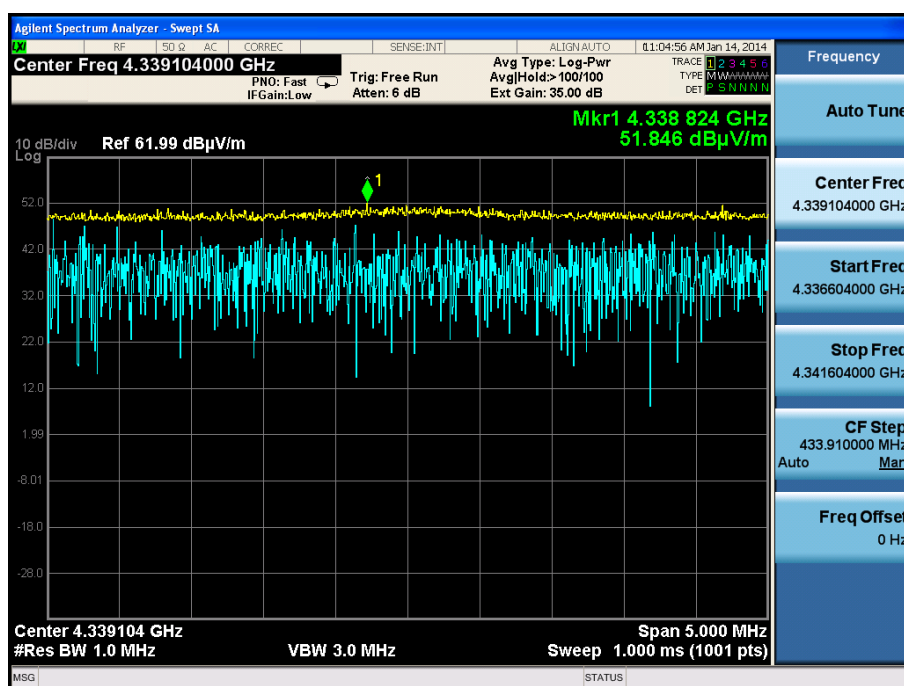
IC Canada test report



IC Canada test report



IC Canada test report



5.10 Occupied bandwidth

Specify:

Base standard:	RSS-210, A1.1.3
----------------	-----------------

The bandwidth of the emission shall be no wider than 0,25% of the center frequency for devices operating above 70MHz and below 900MHz. For devices operating above 900MHz, the emission shall be no wider than 0,5% of the center frequency. Bandwidth is determined at the points 20dB down from the modulated carrier.

Test Setup:

RBW:	3kHz
VBW:	3kHz

Limits:

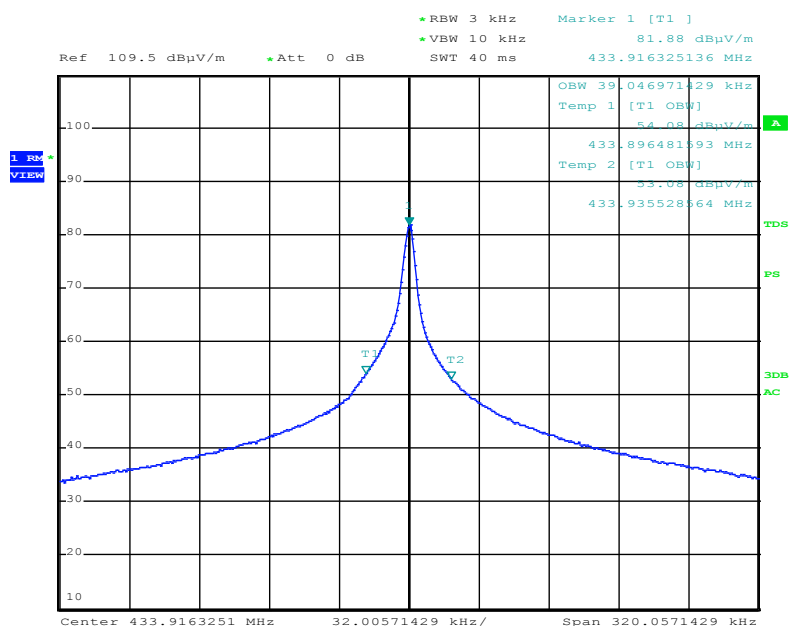
< 0,25% of the centre frequency, here 1,08MHz

Test Data:

Occupied bandwidth at -20dB:	52.0kHz
Occupied bandwidth at 99%:	39.0kHz

Comments:

-



Date: 14.JAN.2014 13:03:29

6

Measurement and Test Equipment instrumentation

Code	nr.	Manufacturer	Model	Serial number	Date of Calibration	Calibration Due
ANA	7	Agilent	N9020A	MY48011101	01/03/2013	01/03/2014
ANT	3	Schwarzbeck	VULB9160	3180	13/06/2013	13/06/2015
ANT	4	AH System	SAS-571	684	13/06/2013	13/06/2015
ANT	5	AH System	SAS-562B	236	06/06/2011	06/06/2015
ANT	6	AH System	SAS-571	1025	13/06/2013	13/06/2015
ANT	7	Aaronia	BicoLOG 30100	1293	13/06/2013	13/06/2015
ANT	9	Schwarzbeck	VHBA 9123	525	13/06/2013	13/06/2015
ATT	1	-	PE7021-6		21/06/2011	21/06/2015
CAV	1	Rohde & Schwarz	HFU2-Z5	-	18/09/2013	18/09/2015
CAV	2	Rohde & Schwarz	HFU2-Z4	-	18/09/2013	18/09/2015
CAV	3	TESEO	CAVO A	-	18/09/2013	18/09/2015
CAV	5	TESEO	CAVO C	-	18/09/2013	18/09/2015

CAV	6	TESEO	CAVO D	-	18/09/2013	18/09/2015
CAV	7	TESEO	CAVO E	-	18/09/2013	18/09/2015
CAV	13	TESEO	CAVO G	-	18/09/2013	18/09/2015
CAV	14	TESEO	CAVO H	-	18/09/2013	18/09/2015
CAV	15	TESEO	CAVO I	-	18/09/2013	18/09/2015
CAV	16	Rohde & Schwarz	9111505/200 (CAVO J)	5995-12-161-6890	18/09/2013	18/09/2015
CAV	17	Nice	CAVO K	-	18/09/2013	18/09/2015
CAV	18	Nice	CAVO L	-	18/09/2013	18/09/2015
CAV	19	Nice	Cavo M	-	18/09/2013	18/09/2015
CAV	20	Nice	Cavo N	-	18/09/2013	18/09/2015
CAV	21	Nice	Cavo P	-	18/09/2013	18/09/2015
CAV	22	Nice	Cavo R	-	18/09/2013	18/09/2015
CSA	1	TESEO	EN 55022 EN 610004-3	NSA	29/04/2013	29/04/2014

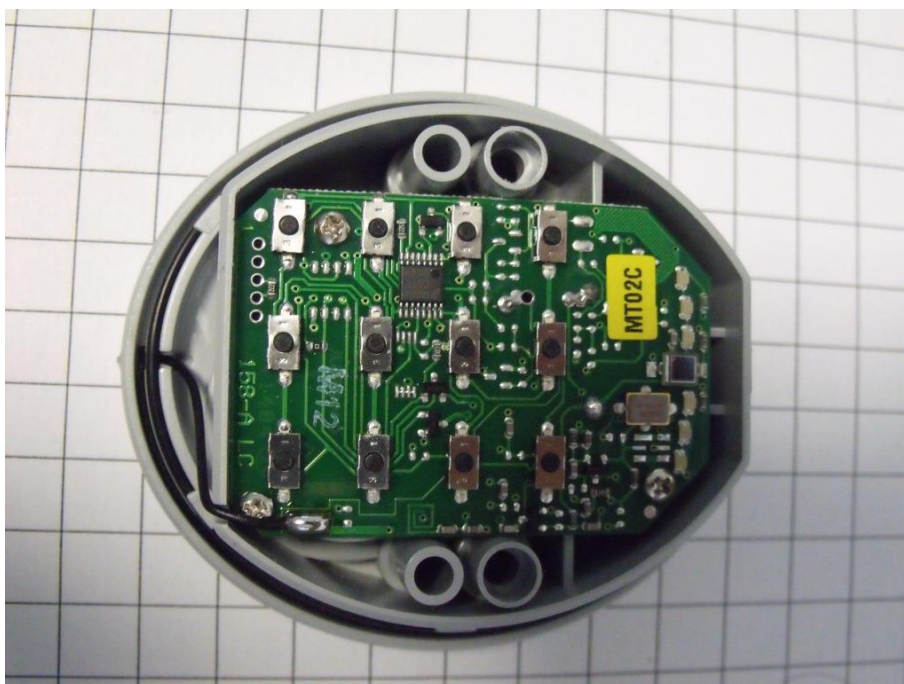
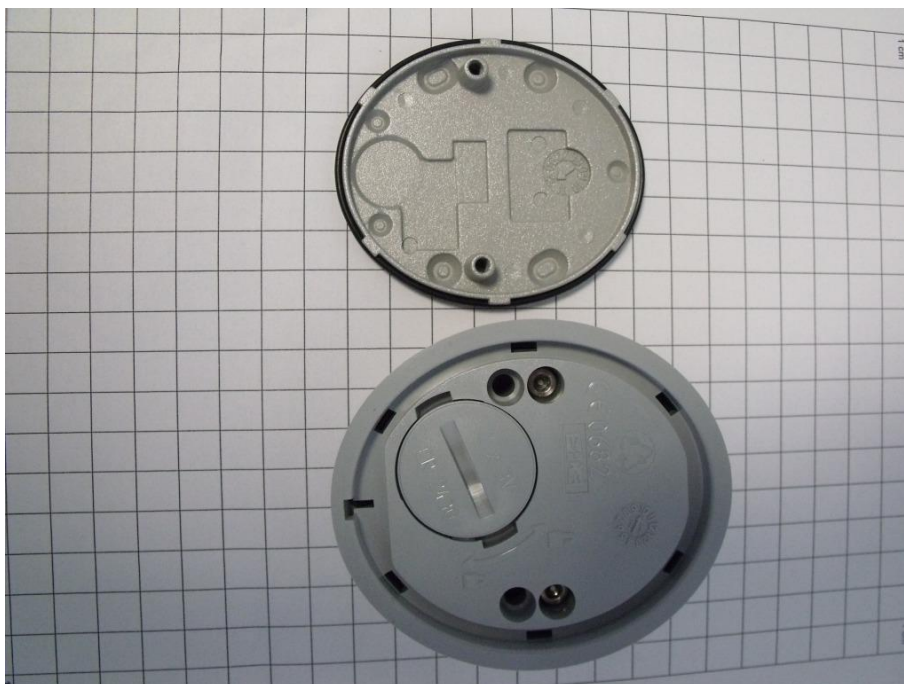
				CISPR 16-1-4	14/04/2009	14/04/2014
				EN 61000-4-3	06/09/2013	06/09/2014
GEN	7	Rohde & Schwarz	SML 03	102178	25/01/2012	25/01/2014
GEN	8	Agilent	N5182A	MY48180288	23/09/2013	23/09/2014
LIS	2	Rohde & Schwarz	ESH2-Z5	100183	13/06/2013	13/06/2015
POW	1	Rohde & Schwarz	NRVD	101221	18/06/2012	18/06/2014
POW	2	Rohde & Schwarz	NRV-Z5	100314	20/06/2012	20/06/2014
POW	3	Rohde & Schwarz	NRV-Z5	100315	20/06/2012	20/06/2014
PRE	2	Schwarzbeck	BBV 9718	9718-178	13/04/2012	13/04/2014
RIC	1	Rohde & Schwarz	ESCI	100140	06/02/2013	06/02/2014
SCO	7	FCC	F-51	454	09/06/2011	07/06/2014
SCO	8	Teseo	EQ-51-1	D047	07/06/2011	07/06/2014
SCO	9	FCC	F-33-4	63	09/06/2011	07/06/2014
SOF	1	Rohde & Schwarz	EMC32	V8.53.0		

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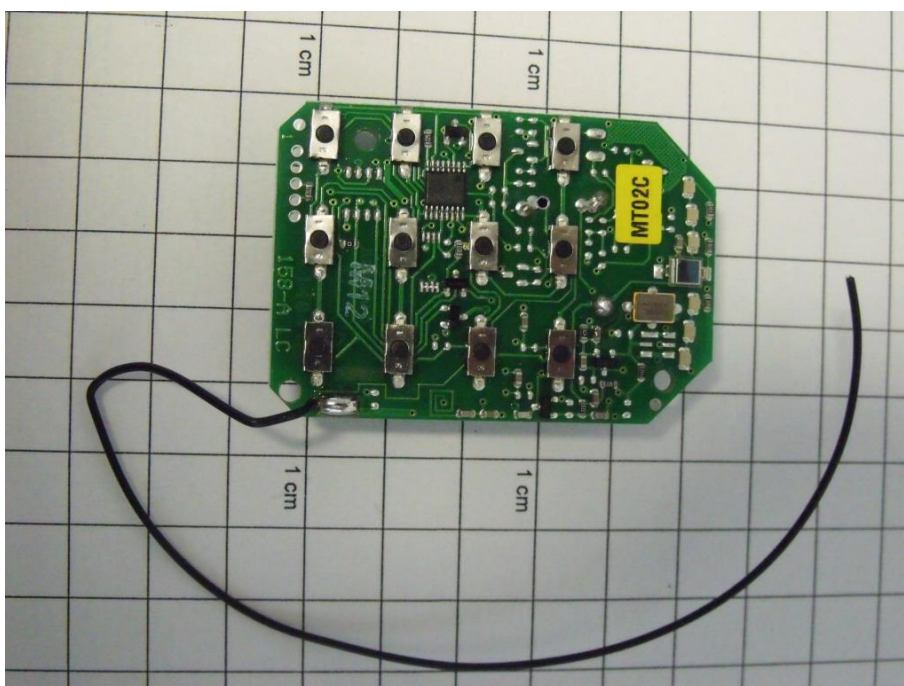
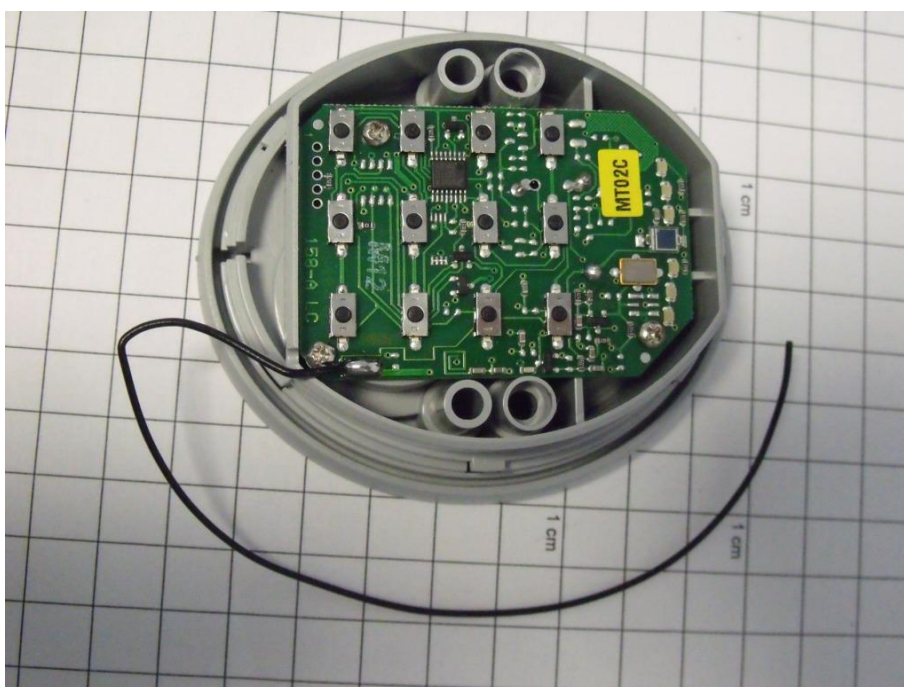
Photographic Documentation

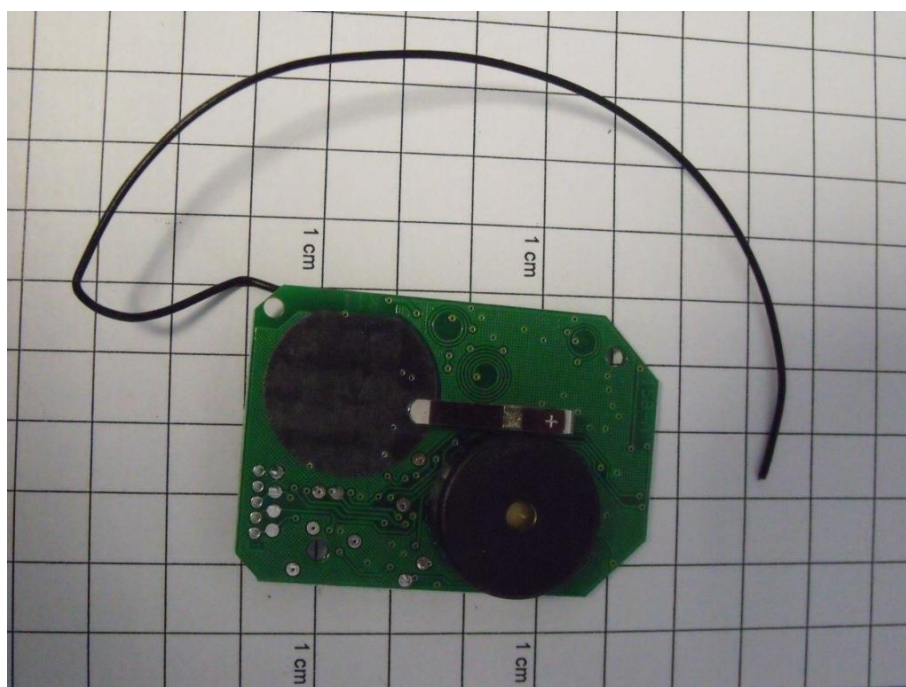
8.1 EUT Identification



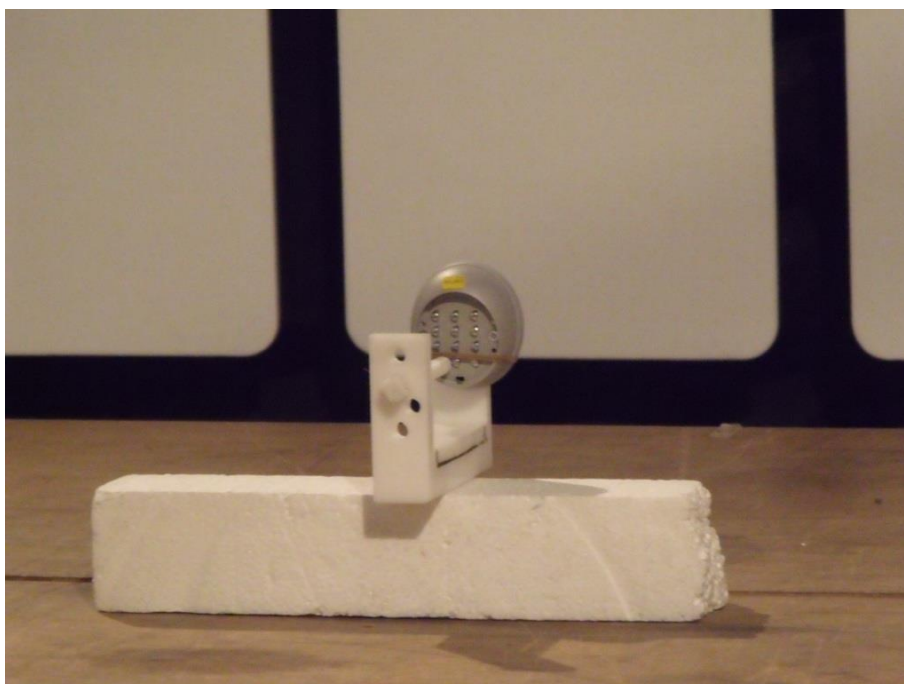
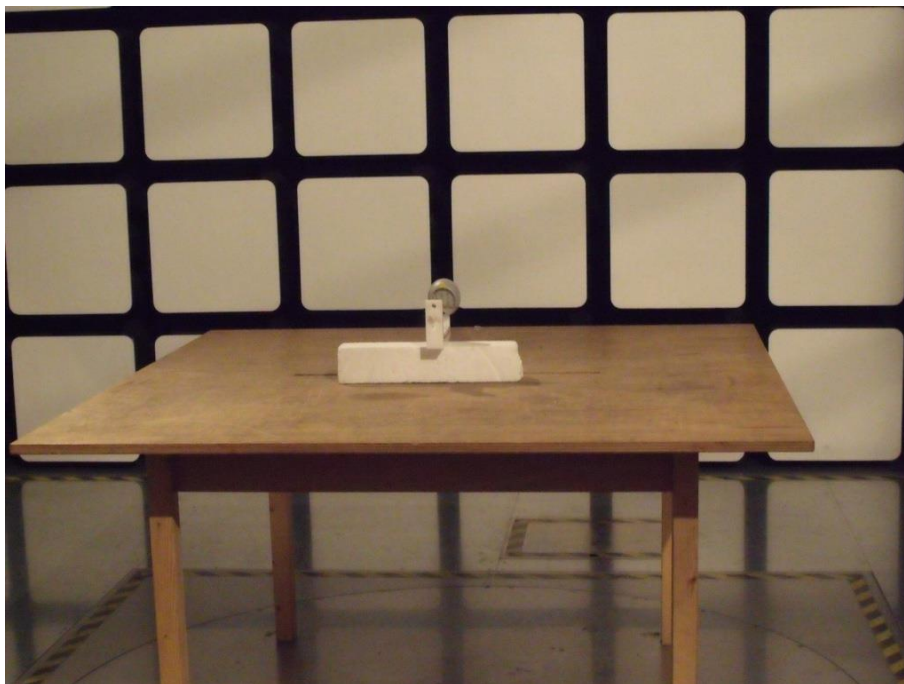


IC Canada test report





8.2 Test Set-up







Annex 1

**Declaration of RF Exposure Compliance for
Exemption from Routine Evaluation Limits**

Attestation: I attest that the radiocommunication apparatus meets the exemption from the routine evaluation limits in Section 2.5 of this standard (RSS-102); that the technical Brief was prepared and the information contained therein is correct; that the device evaluation was performed or supervised by me; that applicable measurement methods and evaluation methodologies have been followed; and that the device meets the SAR and/or RF field strength limits of RSS-102.

Signature: 

Date: 2014-01-17

NAME (Please print type): Mr. Enrico Campion

TITLE (Please print type): Responsible of Laboratory

COMPANY (Please print type): Nice S.p.A.

Annex 2

Site Validation



January 29, 2014

OUR FILE: 46405-6140
Submission No: 175014

NICE S.p.A
Via Pezza Alta, 13 z.i.
Rustigne di Oderzo Tv
ITA
31046

Attention: Enrico Campion

Dear Sir:

The Bureau has received your application for the renewal of 3m alternative test site. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought (**Site# 6140A-1**). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your records the following information;

- The company address code associated to the site(s) located at the above address is: **6140A**

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 or later shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 metre OATS or 3 metre chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed three years. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL;

http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_tt00052e.html.

If you have any questions, you may contact the Bureau by e-mail at certification.bureau@ic.gc.ca Please reference our file and submission number above for all correspondence.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Bill Payu".

Bill Payu
For: Wireless Laboratory Manager
Certification and Engineering Bureau
3701 Carling Ave., Building 94
P.O. Box 11490, Station "H"
Ottawa, Ontario K2H 8S2
Email: Bill.Payu@ic.gc.ca
Tel. No. (613) 990-3639
Fax. No. (613) 990-4752



February 8, 2011

OUR FILE: 46405-6140

Submission No: 145501

NICE S.p.A
Via Pezza Alta, 13 z.i.
Rustigne di Oderzo Tv, 31046
Italy

Attention: Oscar Marchetto

Dear Sir/Madame:

The Bureau has received your application for the registration of a 3m alternative test site. Be advised that the information received was satisfactory to Industry Canada. The following number(s) is now associated to the site(s) for which registration / renewal was sought (**Site# 6140A-1**). Please reference the appropriate site number in the body of test reports containing measurements performed on the site. In addition, please keep for your records the following information;

- The company address code associated to the site(s) located at the above address is: **6140A**

Furthermore, to obtain or renew a unique site number, the applicant shall demonstrate that the site has been accredited to ANSI C63.4-2003 or later. A scope of accreditation indicating the accreditation by a recognized accreditation body to ANSI C63.4-2003 or later shall be accepted. Please indicate in a letter the previous assigned site number if applicable and the type of site (example: 3 metre OATS or 3 metre chamber). If the test facility is not accredited to ANSI C63.4-2003 or later, the test facility shall submit test data demonstrating full compliance with the ANSI standard. The Bureau will evaluate the filing to determine if recognition shall be granted.

The frequency for re-validation of the test site and the information that is required to be filed or retained by the testing party shall comply with the requirements established by the accrediting organization. However, in all cases, test site re-validation shall occur on an interval not to exceed **three years**. There is no fee or form associated with an OATS filing. OATS submissions are encouraged to be submitted electronically to the Bureau using the following URL;
http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_tt00052e.html.

If you have any questions, you may contact the Bureau by e-mail at certification.bureau@ic.gc.ca Please reference our file and submission number above for all correspondence.

Yours sincerely,

Dalwinder Gill
For: Wireless Laboratory Manager
Certification and Engineering Bureau
3701 Carling Ave., Building 94
P.O. Box 11490, Station "H"
Ottawa, Ontario K2H 8S2
Email: dalwinder.gill@ic.gc.ca
Tel. No. (613) 998-8363
Fax. No. (613) 990-4752