

Test report nr. 0241aFCC14

Measurements performed in accordance with:

**FCC Rules: code of Federal Regulations (CFR) no. 47
PART 15 – RADIO FREQUENCY DEVICES**

Product: Remote control (modified the product)

Tested model: P1/U, P1S/U, P6, P6S/U

FCC ID PMLERAP

Applicant: Nice S.p.A.

Manufacturer: Nice S.p.A.

Trademark: Nice

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

Registration number: 771316

Date of receipt sample: 2014-05-09

Testing date: 2014-05-09 to 15-05-2014

Issue date: 2014-06-30

Tested by: L. Pastres



Checked by: E. Campion



Notice: The result of tests and checks reported in this Test Report refer exclusively to the samples tested and described in the Report itself.
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General Description of Equipment under Test**1.1 Applicant**

Name: Nice S.p.A.
Address: via Pezza Alta, 13
Country: 31046 Rustignè di Oderzo (TV) – Italy

1.2 Manufacturer

Name: Nice S.p.A.
Address: via Pezza Alta, 13
Country: 31046 Rustignè di Oderzo (TV) – Italy

1.3 Equipment classification

According to definition 15.3 (o) is a intentional Radiator operating within the Bands:

so it shall fulfil provisions of 47CFR Part 15 Subpart C – international radiators – and Section 15.209.

According to definition 15.3 (z) is a unintentional Radiator:

So it shall fulfil provisions of 47CFR Part 15 Subpart B – Unintentional radiator and section 15.107 and 15.109.

1.4 Basic Description of equipment under test

Parameters	Value
Type of equipment:	LPD transmitter
Model:	P1/U, P1S/U, P6/U, P6S/U
FCC ID:	PMLERAP
Trade Name:	Nice
Data cable:	-
Telecom cable:	-
Power supply type:	internal battery
AC power input cable:	-
DC power input cable:	3Vdc with internal battery 2 x type AAA

Model	Description
-	-

1.5 Feature of equipment under test

Parameters	Value
Power specification	3Vdc (Two internal battery Type AAA)
Operating frequency:	433.92MHz
Maximum RF output power:	78.45dB μ V/m at 3m (peak 81.95dB μ V/m) P6/U 74.46dB μ V/m at 3m (peak 77.96dB μ V/m) P1/U 77.05dB μ V/m at 3m (peak 80.55dB μ V/m) P6S/U 76.45dB μ V/m at 3m (peak 79.95dB μ V/m) P1S/U
Occupied Bandwidth	40.9kHz at 99% (worst case) 354kHz at -20dBc (worst case)
Emission Designator (ITU):	40K9A1D
Modulation:	AM (OOK)
Channel spacing:	no channel spacing
Antenna:	integral
Rx Sensitivity:	none
Main SW identification:	none
Main HW board identification:	PCB nr. SB300A3
Peripherals included (for system application):	none
Interfaces:	none
Integrated interfaces	none
AC adapter:	none

2

Test configuration of equipment under test

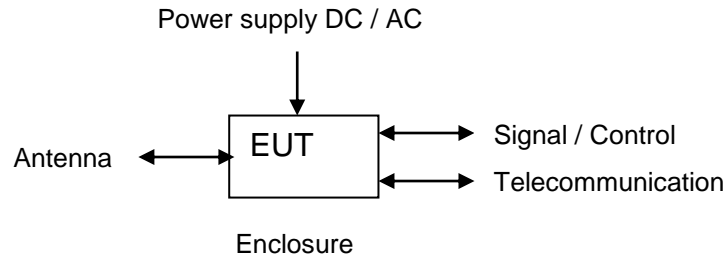
2.1 Environmental conditions

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	none

2.3 Interface identification and connection diagram of test system



#	Interface	Description	Maximum length	Ref. Document
1	Enclosure	-	150 x 50 x 20 mm	-
2	AC mains power input	none	none	none
3	DC power port	Two battery type AA	none	none
4	Signal / control port	none	none	none
5	Antenna port	none	none	none

3

Operation of equipment under test

3.1 Operating test conditions

#	Description
1	transmission
2	standby

4

Tests identification and result

CFR47 Part 15 Section	Title	Operating condition	Result
15.203 15.247 (b)(4)(i)	Antenna requirements	not applicable	-
15.207 (a)	Conducted emission	not applicable	-
15.209 (a) (f)	Radiated emission	#1 #2	PASS
15.231 (a)	Timing of the transmitter	#1	PASS
15.231 (a)	Transmit behaviour after releasing the TX-button	#1	PASS
15.231 (b)	Radiated output power	#1	PASS
15.35 (c)	Typical pulse train of a signal	#1	PASS
15.231 (b)	Compliance with the limit of FCC	#1 #2	PASS
15.231 (b)	Spurious emission - radiated	#1	PASS
15.231 (c)	Occupied bandwidth	#1	PASS

4.1 Methods of measurement

All compliance measurements have been carried out using the procedures described in the standard ANSI C63.4-2003 (excluding sub-par. 4.1.5.2, 5.7.9 and 14) and Section 15.31 of CFR47 Part 15 – Subpart A (General).

4.2 Frequency range investigated

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

5 Tests

5.1 Radiated emission

Specify:

Base standard:	47CFR Part 15 Section 15.209
----------------	------------------------------

- 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:	15.209 (a)
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⁾:

Frequency [MHz]	Field Strength (μ V/m)	Measurement distance (m)
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

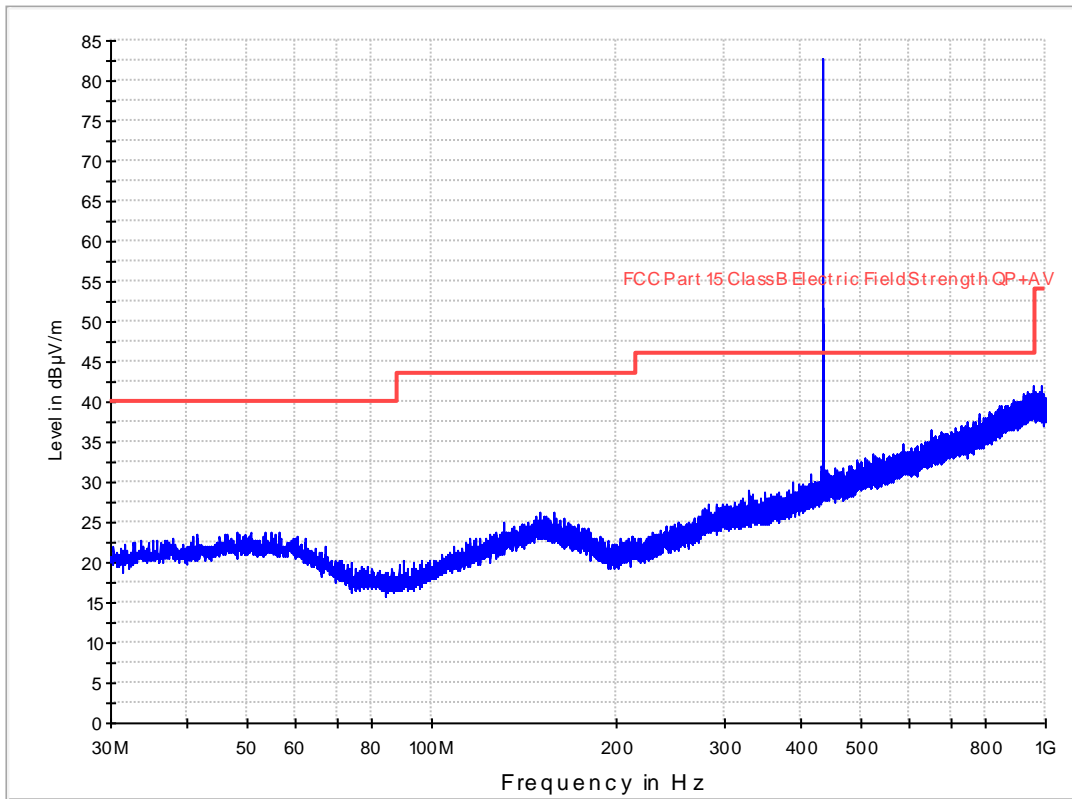
Test Data.:

Port under test	Operating condition	Result
Enclosure	#1, 2	Complies

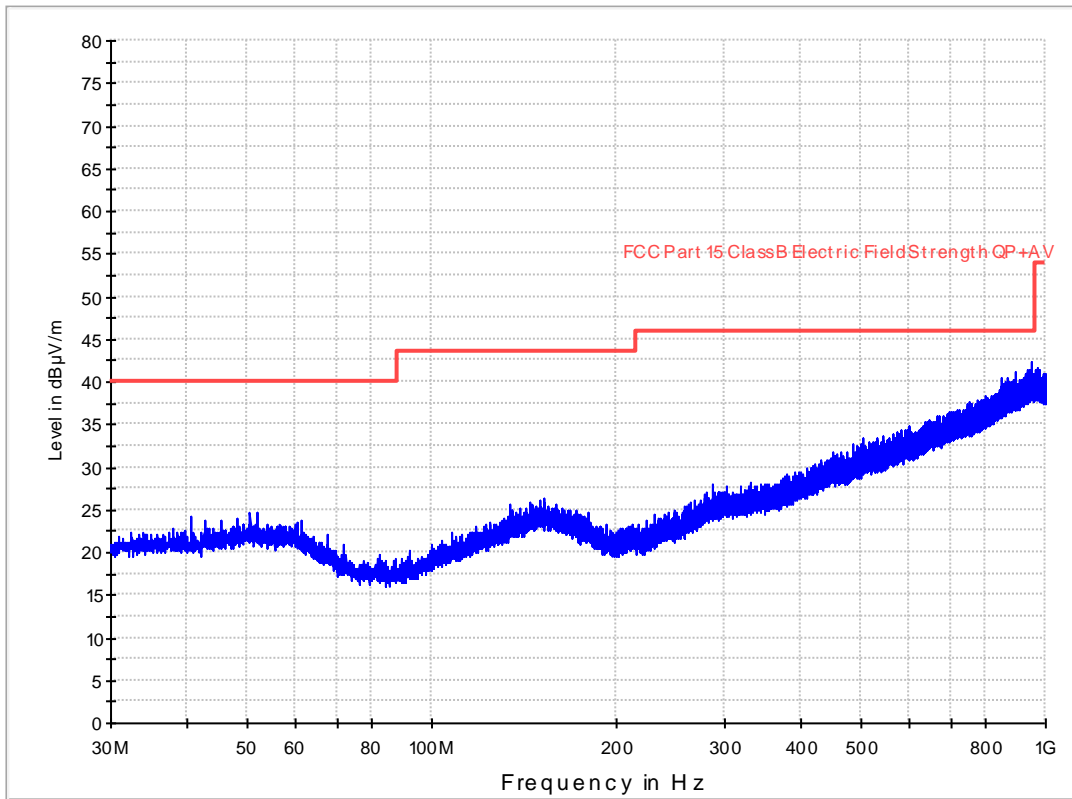
Comments:

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

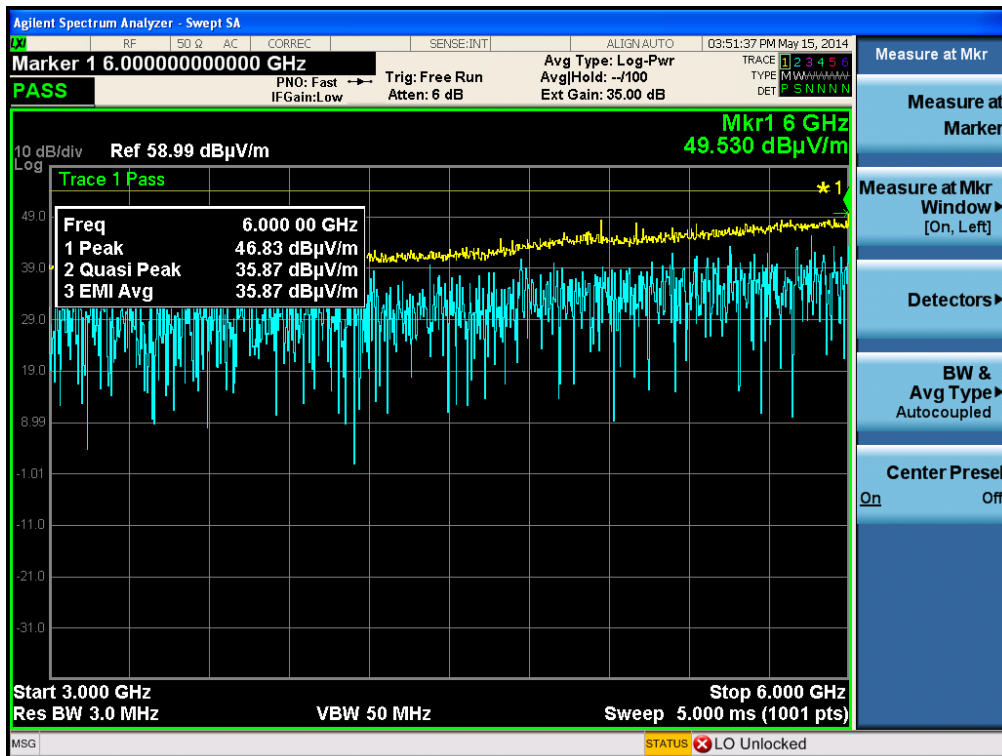
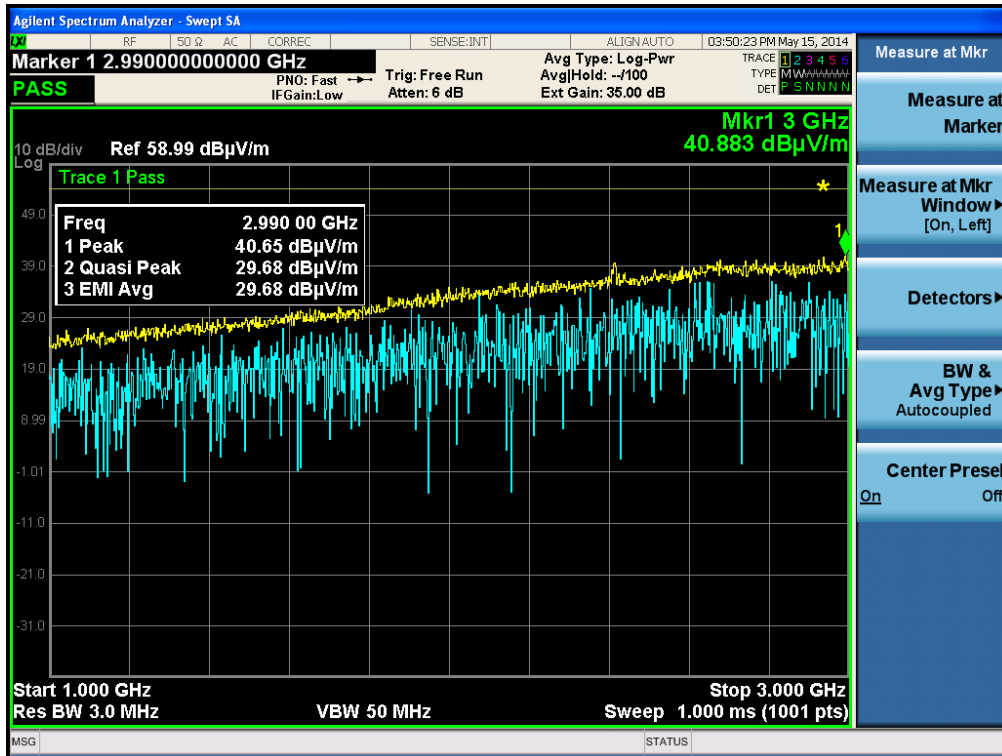
Transmission



Standby



Transmission



5.2 Timing of the transmitter

Specify:

Base standard:	CFR47 Part 15 Section 15.231 (a)
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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:	CFR47 Part 15 Section 15.35 (c)
RBW:	1MHz
VBW:	3MHz

Test Data:

Timing of the transmitter:	132ms (total period)
Transmit button pressed shorted than:	-
Pulse train length:	-
ON Time:	$65 \times 1.5\text{ms} + 1.5\text{ms} = 66.5\text{ms}$ (worst case with all bit at 1)
OFF Time:	-
DC:	$(66.5\text{ms}/100\text{ms}) = 0.665$ (worst case with all bit at 1)
Correction:	$20 \times \log(0.665) = -3.5\text{dB}$

Comments:

See technical file.

TOTAL PERIOD	:	T	=	132 ms
FRAME PERIOD	:	TF	=	114 ms
PAUSE	:	TP	=	18ms
START BIT	:	TS	=	1.5 ms
SINGLE BIT	:	TBIT	=	1.5ms
IMPULSE TYPE "0"	:	TON	=	0.5 ms, TOFF = 1.0 ms
IMPULSE TYPE "1"	:	TON	=	1.0 ms, TOFF = 0.5 ms
STOP BIT	:	TFs	=	1.5 ms

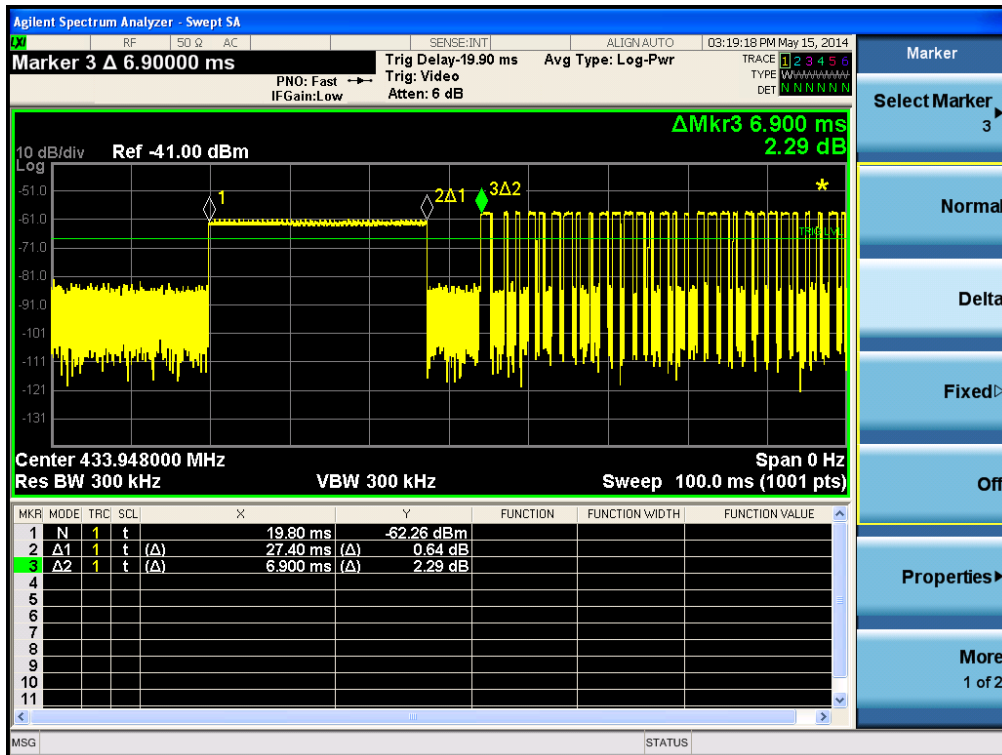
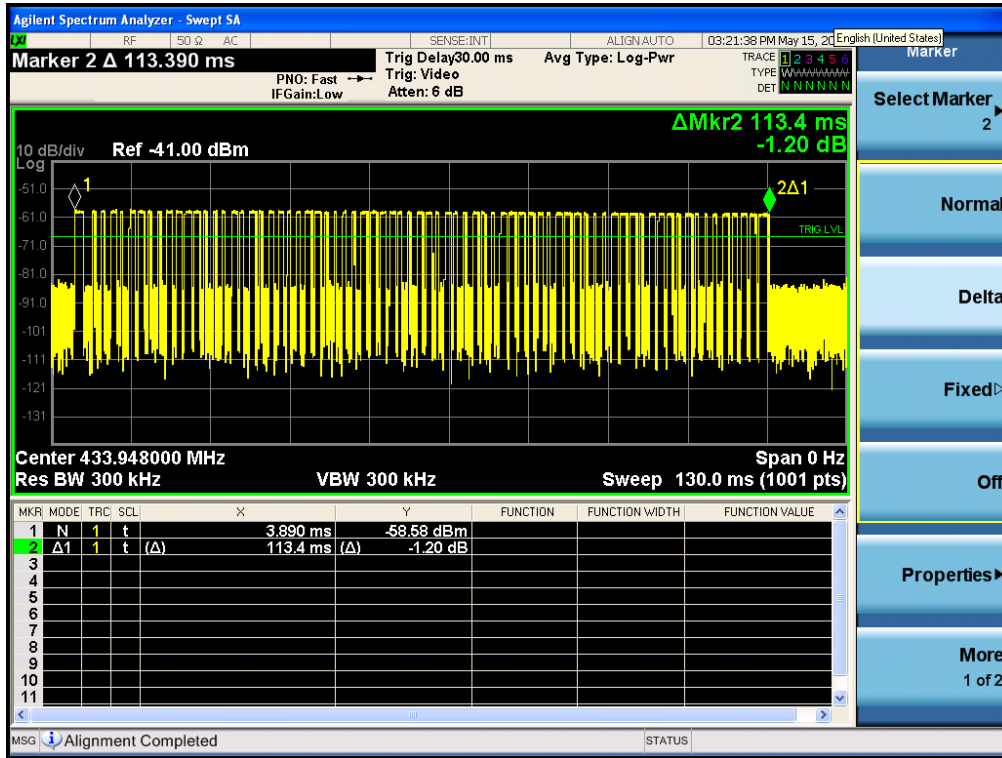
Then the 100 ms worst case (WC) is

$$\text{DC} = \text{ON TIME} / \text{WC} / 100 \text{ ms} = ((1.5 + 1 \times 65) / 100) = 0.665$$

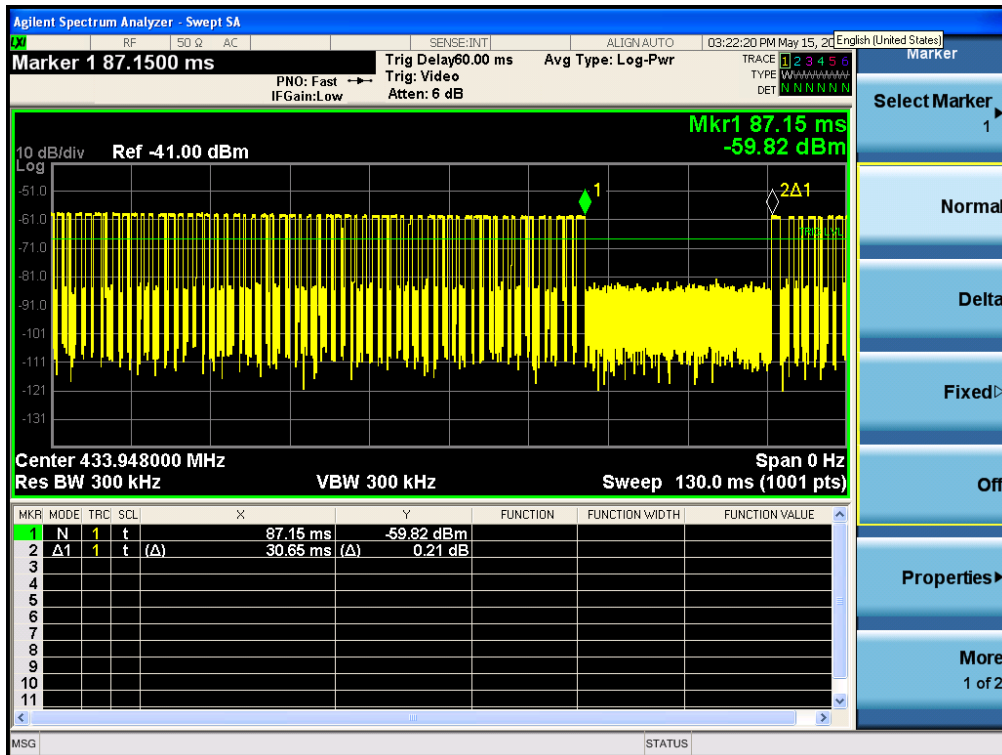
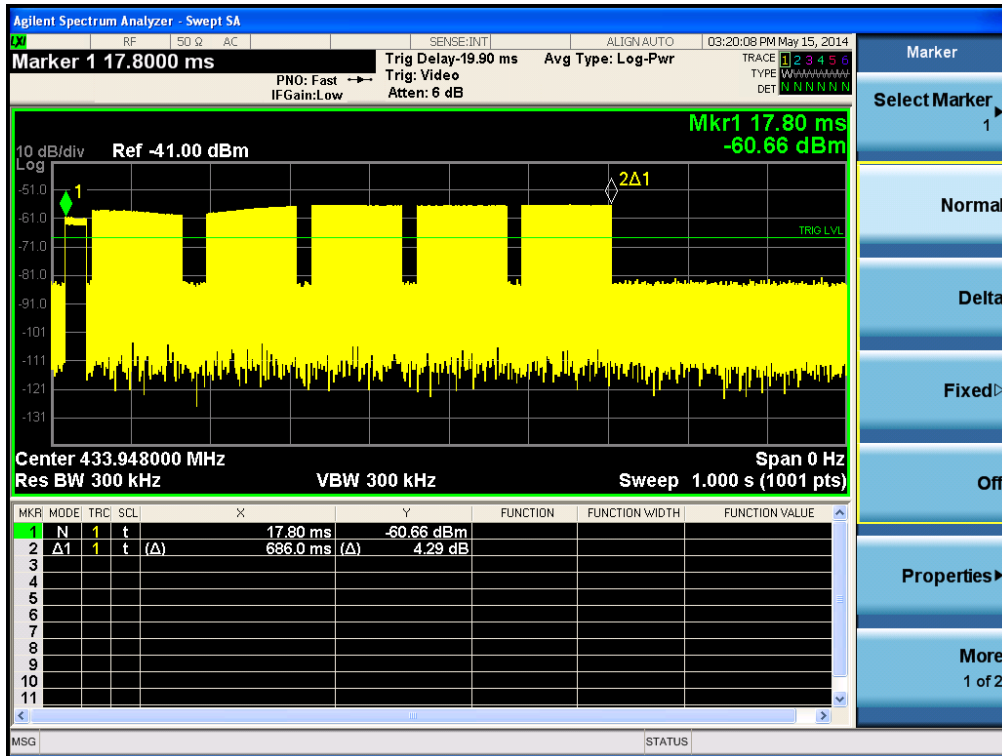
$$20 \text{ LOG}(\text{DC}) = -3.5 \text{ dB} \quad (\text{correction factor})$$

FCC test report

Following pictures are only for view the type of impulse.



FCC test report



5.3 Transmit behaviour after releasing the TX-button

Specify:

Base standard: 47CFR Part 15 Section 15.231 (a)

Test requirements:

Test Setup: 47CFR Part 15 Section 15.35 (c)

RBW: 1MHz

VBW: 3MHz

Test data:

T1: 0s

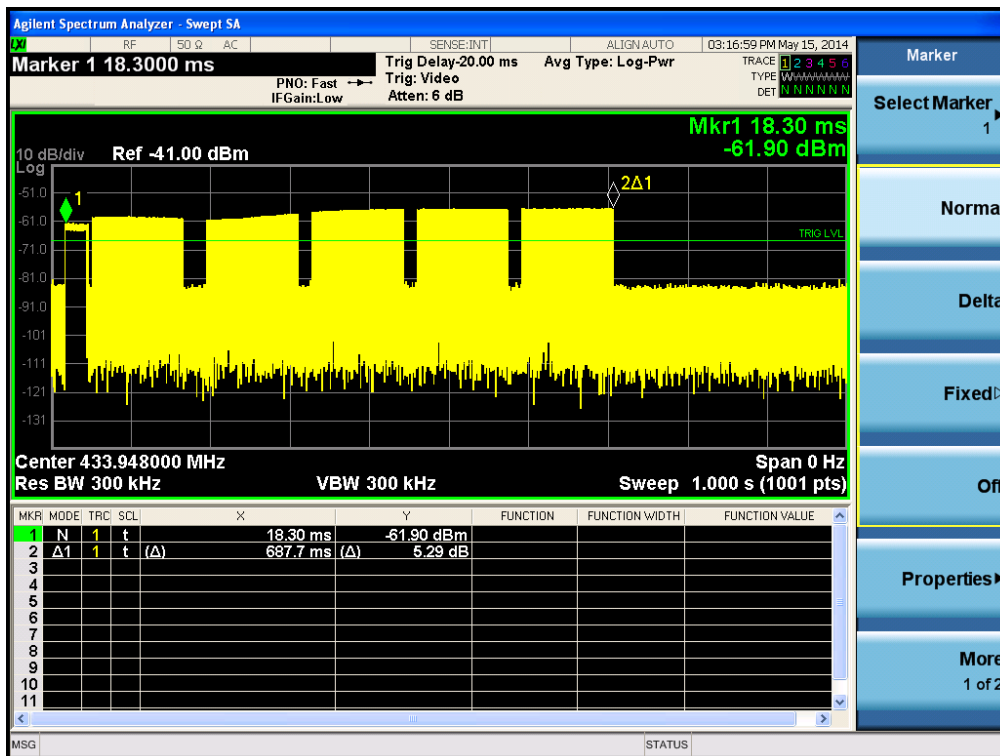
T2: 687.7ms

T2-T1: 687.7ms < 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.



5.4 Radiated output power

Specify:

Base standard: FCC 15.231 (b)

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:

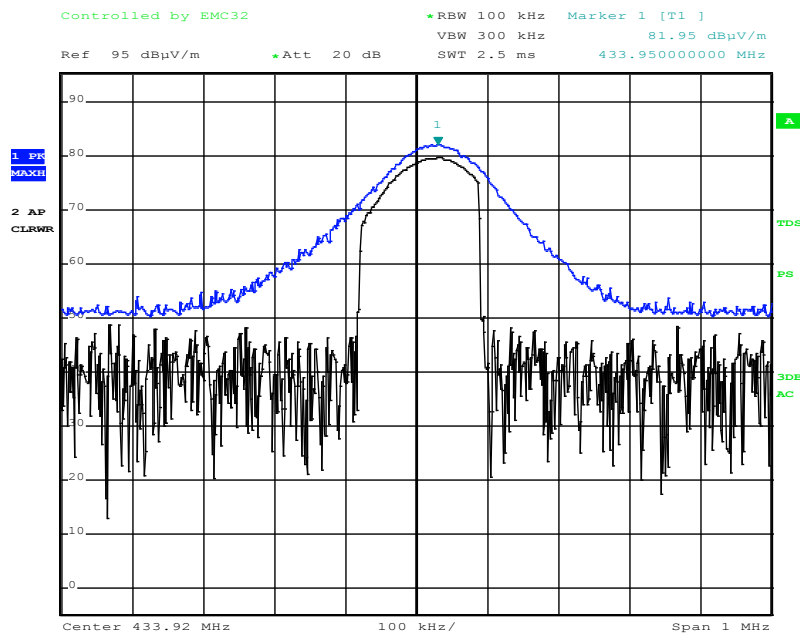
Output radiated power (3m of distance):

78.45dB $\mu\text{V}/\text{m}$ at 3m (peak 81.95dB $\mu\text{V}/\text{m}$) P6/U
 74.46dB $\mu\text{V}/\text{m}$ at 3m (peak 77.96dB $\mu\text{V}/\text{m}$) P1/U
 77.05dB $\mu\text{V}/\text{m}$ at 3m (peak 80.55dB $\mu\text{V}/\text{m}$) P6S/U
 76.45dB $\mu\text{V}/\text{m}$ at 3m (peak 79.95dB $\mu\text{V}/\text{m}$) P1S/U

76.45

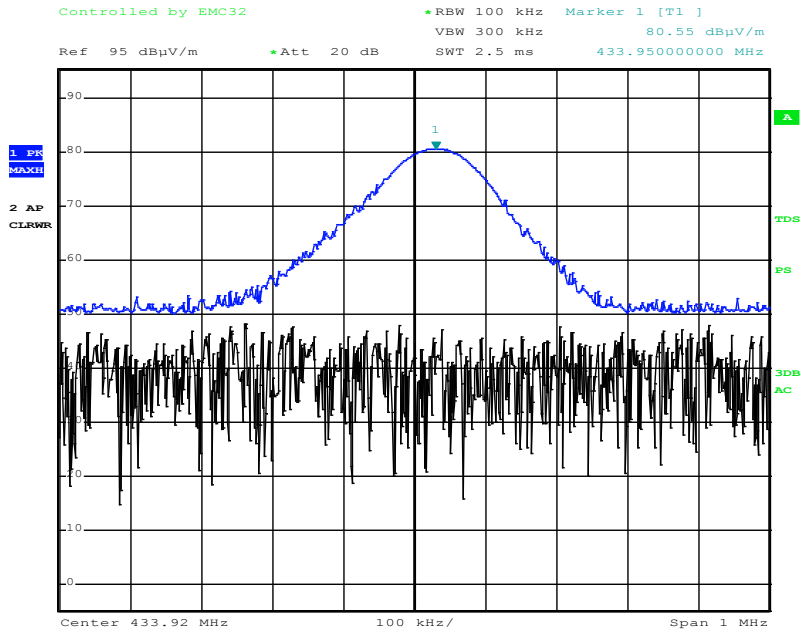
Comments:

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

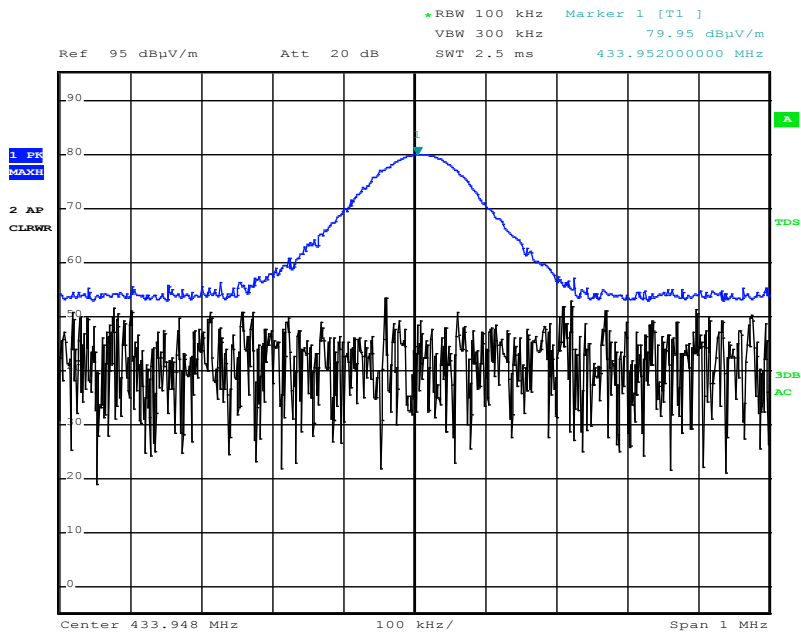


Date: 18.JUN.2014 17:02:34

FCC test report

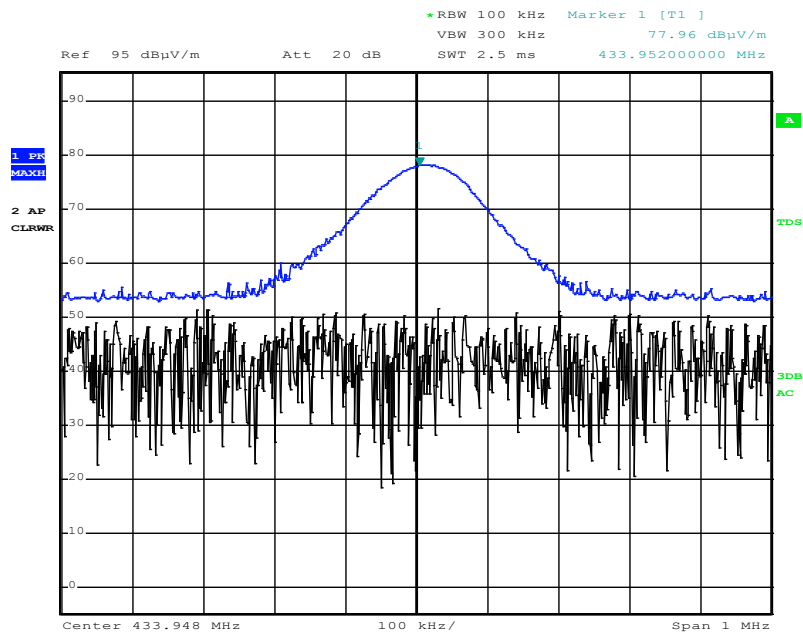


Date: 18.JUN.2014 17:16:55



Date: 13.MAY.2014 12:25:01

FCC test report



Date: 13.MAY.2014 12:01:00

5.5 Typical pulse train of a signal

Specify:

Base standard:	47CFR Part 15 Section 15.231 (a)
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Test Setup:

RBW:	1MHz
VBW:	3MHz

Test Data:

Duty-cycle	66.5%
TX on	66.5ms
TX off	33.5ms
Average correction factor ($20 \cdot \log(\text{duty cycle})$):	$20 \log (66.5\text{ms} / 100\text{ms}) = - 3.5\text{dB}$

Comments:

See comments in clause 5.2

5.6 Compliance with the limit of FCC

Specify:

Base standard:	47CFRF Part 15 Section 15.231 (b)
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Test Setup:

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

Frequency [MHz]	Field Strength of the fundamental	Field Strength of spurious emissions
40,66 – 40,70	2 250 μ V/m / 67dB μ V/m	225 μ V/m / 47dB μ V/m
70 – 130	1 250 μ V/m / 62dB μ V/m	125 μ V/m / 42dB μ V/m
130 - 174	1 250 μ V/m to 3 750 μ V/m ⁽¹⁾ 62 μ V/m to 71,5 μ V/m	125 μ V/m to 375 μ V/m ⁽¹⁾ 42dB μ V/m to 51,5dB μ V/m
174 – 260	3 750 μ V/m / 71,5dB μ V/m	375 μ V/m / 51,5dB μ V/m
260 – 470	3 750 μ V/m to 12 500 μ V/m ⁽¹⁾ 71,5 dB μ V/m to 82 dB μ V/m	375 μ V/m to 1 250 μ V/m ⁽¹⁾ 51,5dB μ V/m to 62dB μ V/m
above 470	12 500 μ V/m / 82dB μ V/m	1 250 μ V/m / 62dB μ V/m

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

Test Result:

Frequency:	
Calculated average (3m of distance):	78.45dB μ V/m < 80.82dB μ V/m P6/U 74.46dB μ V/m < 80.82dB μ V/m P1/U 77.05dB μ V/m < 80.82dB μ V/m P6S/U 76.45dB μ V/m < 80.82dB μ V/m P1S/U

Comments:

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

5.7 Spurious emission - radiated

Specify:

Base standard: 47CFR Part 15 Section 15.231 (b)

Test Setup:

-

Limits:

Frequency [MHz]	Field Strength of the fundamental	Field Strength of spurious emissions
40,66 – 40,70	2 250 μ V/m / 67dB μ V/m	225 μ V/m / 47dB μ V/m
70 – 130	1 250 μ V/m / 62dB μ V/m	125 μ V/m / 42dB μ V/m
130 - 174	1 250 μ V/m to 3 750 μ V/m ⁽¹⁾ 62 μ V/m to 71.5 μ V/m	125 μ V/m to 375 μ V/m ⁽¹⁾ 42dB μ V/m to 51.5dB μ V/m
174 – 260	3 750 μ V/m / 71.5dB μ V/m	375 μ V/m / 51.5dB μ V/m
260 – 470	3 750 μ V/m to 12 500 μ V/m ⁽¹⁾ 71,5 dB μ V/m to 81.9 dB μ V/m	375 μ V/m to 1 250 μ V/m ⁽¹⁾ 51,5dB μ V/m to 61.9dB μ V/m
above 470	12 500 μ V/m / 81.9dB μ V/m	1 250 μ V/m / 61.9dB μ 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)

Model P6/U

Test Result:

Frequency [MHz]	Peak Amplitude of emission (dB μ V/m)	Average Amplitude of emission (dB μ V/m)	Limit maximum allowed emission power (dB μ V/m)	Actual attenuation below frequency of operation (dB)	Results
433.950	81.95	78.45	80.82	2.37	operating frequency
867.894	48.79	45.29	61.9	16.61	complies
1301.820	49.19	45.69	54.0	8.31	complies
1735.495	52.60	49.10	61.9	12.80	complies
2170.115	50.26	46.76	61.9	15.14	complies
2603.355	44.65	41.15	61.9	20.75	complies
3037.635	46.97	43.47	61.9	18.43	complies
3471.595	46.79	43.29	61.9	18.61	complies
3907.930	45.94	42.44	54.0	11.56	complies
4338.815	46.11	42.61	54.0	11.39	complies

Model P1/U

Test Result:

Frequency [MHz]	Peak Amplitude of emission (dB μ V/m)	Average Amplitude of emission (dB μ V/m)	Limit maximum allowed emission power (dB μ V/m)	Actual attenuation below frequency of operation (dB)	Results
433.952	77.96	74.46	80.82	6.36	operating frequency
867.922	53.11	49.61	61.9	12.29	complies
1301.737	42.87	39.97	54.0	14.03	complies
1735.886	43.51	40.01	61.9	21.89	complies
2169.690	53.35	49.85	61.9	12.05	complies
2605.314	43.32	39.82	61.9	22.08	complies
3037.633	58.73	55.23	61.9	6.67	complies
3471.582	52.94	49.44	61.9	12.46	complies
3905.391	47.92	44.42	54.0	9.58	complies
4341.885	45.91	42.41	54.0	11.59	complies

Model P6S/U

Test Result:

Frequency [MHz]	Peak Amplitude of emission (dB μ V/m)	Average Amplitude of emission (dB μ V/m)	Limit maximum allowed emission power (dB μ V/m)	Actual attenuation below frequency of operation (dB)	Results
433.950	80.55	77.05	80.82	3.77	operating frequency
867.888	47.46	43.96	61.9	17.94	complies
1301.570	42.46	38.96	54.0	15.04	complies
1735.875	51.17	47.67	61.9	14.23	complies
2169.905	44.72	41.22	61.9	20.68	complies
2604.260	44.01	40.51	61.9	21.39	complies
3037.325	46.29	42.79	61.9	19.11	complies
3471.295	45.62	42.12	61.9	19.78	complies
3907.750	45.83	42.33	54.0	11.67	complies
4341.380	46.43	42.93	54.0	11.07	complies

Model P1S/U

Test Result:

Frequency [MHz]	Peak Amplitude of emission (dB μ V/m)	Average Amplitude of emission (dB μ V/m)	Limit maximum allowed emission power (dB μ V/m)	Actual attenuation below frequency of operation (dB)	Results
433.952	79.95	76.45	80.82	4.37	operating frequency
867.913	53.98	50.48	61.9	11.42	complies
1301.917	40.67	37.17	54.0	16.83	complies
1735.816	48.44	44.94	61.9	16.96	complies
2169.670	53.85	50.35	61.9	11.55	complies
2601.809	44.08	40.58	61.9	21.32	complies
3037.613	59.27	55.77	61.9	6.13	complies
3471.622	51.43	47.93	61.9	13.97	complies
3905.881	47.74	44.24	54.0	9.76	complies
4338.495	45.37	41.87	54.0	12.13	complies

Comments:

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

5.8 Occupied bandwidth

Specify:

Base standard:	47CFR Part 15.231 (c)
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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:	10kHz

Limits:

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

Test Data:

Occupied bandwidth at -20dB:	348kHz P6/U
	354kHz P1/U
	300kHz P6S/U
	298kHz P1S/U

Comments:

-

6

Measurement and Test Equipment instrumentation

Code	nr.	Manufacturer	Model	Serial number	Date of Calibration	Calibration Due
ANA	7	Agilent	N9020A	MY48011101	19/03/2014	19/03/2015
ANA	12	Rohde & Schwarz	FSL3	102039		
ANA	13	Rohde & Schwarz	FLS3	101359	11/04/2013	11/04/2016
ANT	1	EMCO	3121C DB-4	9312-901		
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
ATT	2	Tyco Electronics Co.	50WCW	-		
ATT	5	RADIALL	R414.710.000	-		
ATT	6	RADIALL	R414.710.000	-		

ATT	7	RADIALL	R414.720.000	-		
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
CDN	1	FCC	FCC 801-M2-16A-SPJ	5024	13/06/2013	13/06/2015
CDN	2	FCC	FCC 801-M3-16A-S	5032	13/06/2013	13/06/2015
CDN	3	FCC	FCC801-150-50 CDN	05031 & 05032		
CDN	4	FCC	FCC 801-M1-16A	7035	13/06/2013	13/06/2015
CDN	5	FCC	FCC 801-150-50-CDN	07113 & 07114		
CSA	1	TESEO	EN 55022 EN 610004-3	NSA	29/04/2013	29/04/2015
				CISPR 16-1-4	14/04/2009	14/04/2019
				EN 61000-4-3	06/09/2013	06/09/2014
ECL	1	FCC	F-203I-23	466	13/06/2013	13/06/2015
ECL	2	FCC	F-203I-CF-23MM	445		
GEN	7	Rohde & Schwarz	SML 03	102178	20/02/2014	20/02/2016
GEN	8	Agilent	N5182A	MY48180288	23/09/2013	23/09/2014

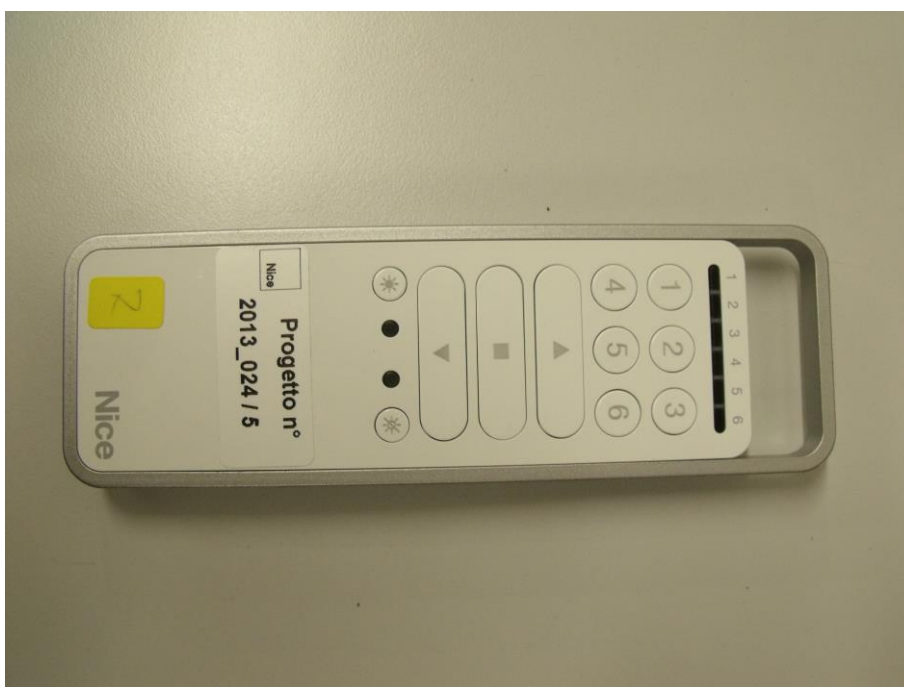
LIS	2	Rohde & Schwarz	ESH2-Z5	100183	13/06/2013	13/06/2015
PAS	1	FCC	F-202	197	11/06/2012	11/06/2016
POW	1	Rohde & Schwarz	NRVD	101221	12/02/2014	12/02/2016
POW	2	Rohde & Schwarz	NRV-Z5	100314	14/02/2014	14/02/2016
POW	3	Rohde & Schwarz	NRV-Z5	100315	14/02/2014	14/02/2016
RIC	1	Rohde & Schwarz	ESCI	100140	26/02/2014	26/02/2015
SOF	1	Rohde & Schwarz	EMC32	V8.53.0		

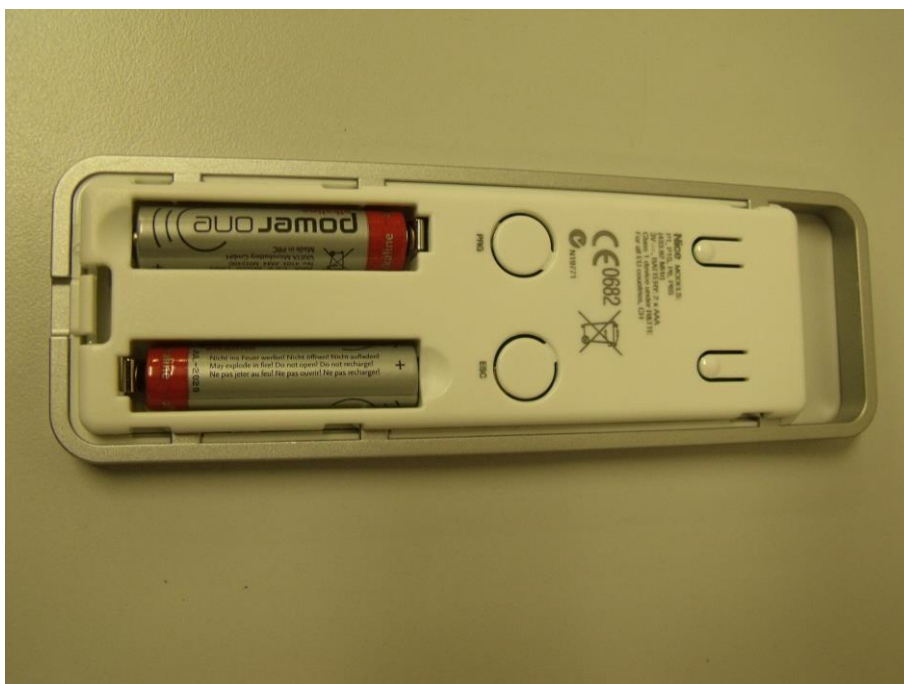
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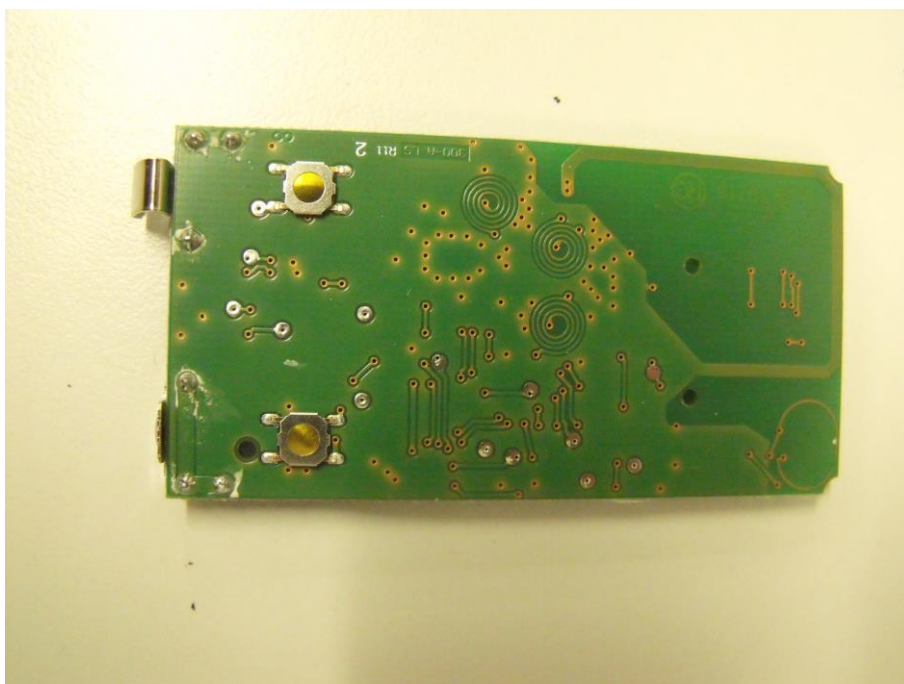
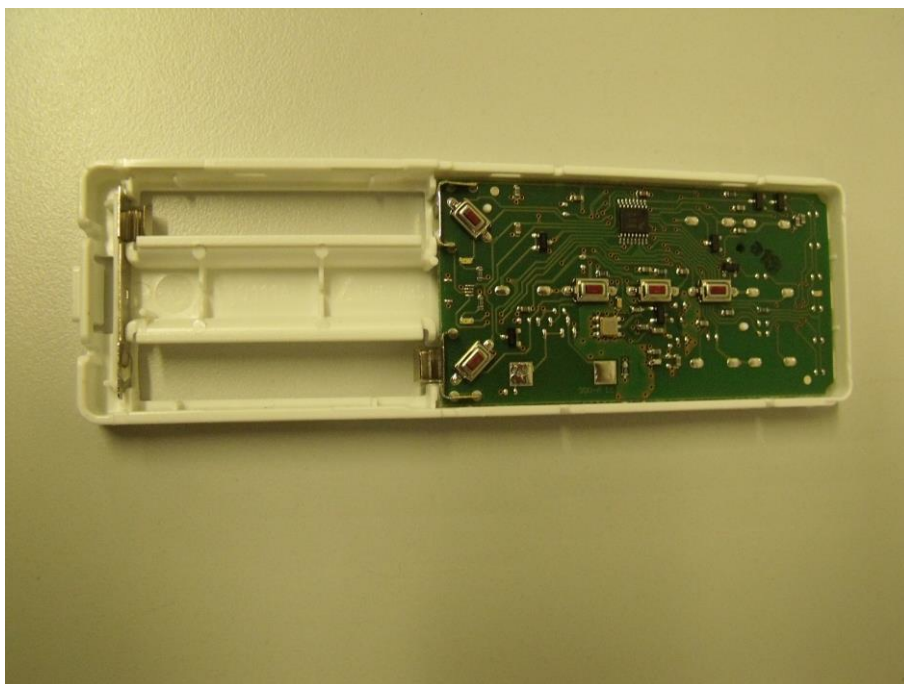
Photographic Documentation

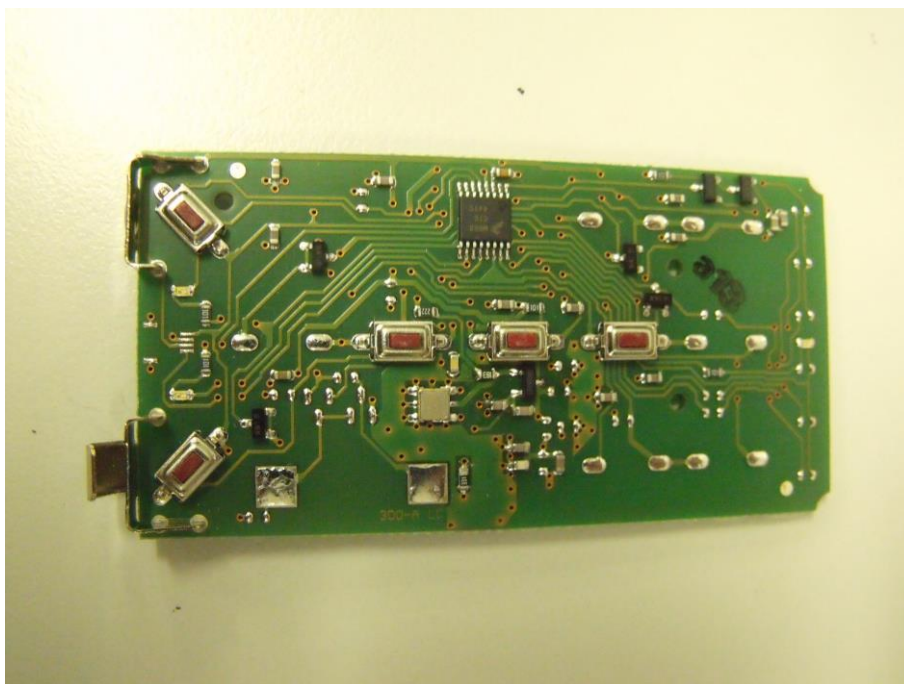
8.1 EUT Identification





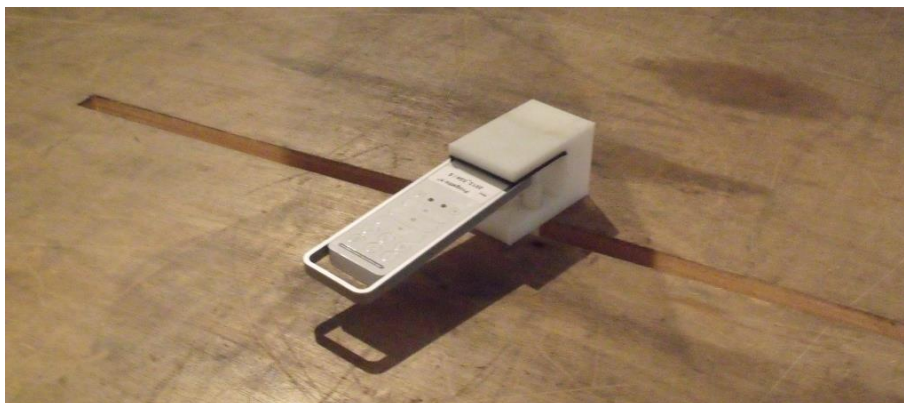






8.2 Test Set-up





Annex 1

Site Validation

FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division
7435 Oakland Mills Road
Columbia, MD 21046

May 17, 2013

Registration Number: 771316

NICE S.p.A.
Via Pezza Alta, 13,
,
Oderzo, 31046
Italy

Attention: Enrico Campion, Mr.

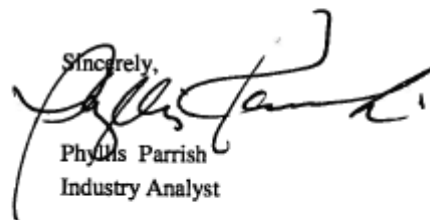
Re: Measurement facility located at Via Pezza Alta, 13 - I-31046 Oderzo
Anechoic chamber (3 meter)
Date of Renewal: May 17, 2013

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely,



Phyllis Parrish
Industry Analyst