



Test report No:

NIE: 58599RRF.001

Test reportUSA FCC Part 15.225, 15.209 CANADA RSS-210, RSS-Gen

(*) Identification of item tested	Electronic Lock Series including all mechanical variants.
(*) Trademark	XS4 Locker
(*) Model and /or type reference	L0B (type reference: E1011)
Other identification of the product	HW Version: 1.0 SW Version: 0165 (Control firmware) + 0136 (BGM111 Firmware) FCC IC: UKCL0B ID: 10088A-L0B
(*) Features	Contains a certified Bluetooth module (BGM111)
Applicant	SALTO Systems, S.L. Calle Arkotz 9, Polígono Lanbarren 20180, Oiartzun, Guipúzcoa, SPAIN
Test method requested, standard	USA FCC Part 15.225 (10–1–18 Edition): Operation within the band 13.110 -14.010. USA FCC Part 15.209 (10–1–18 Edition): Radiated emission limits, general requirements. CANADA RSS-210 Issue 9 (August 2016). CANADA RSS-Gen Issue 5 (April 2018). ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Approved by (name / position & signature)	J. Carlos Luque RF Lab. Supervisor
Summary	IN COMPLIANCE
Date of issue	2019-11-22
Report template No	FDT08_22 (*) "Data provided by the client"

DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 ⋅ 29590 Campanillas ⋅ Málaga ⋅ España
C.I.F. A29 507 456



Index

Competences and guarantees	3
General conditions	
Jncertainty	
Data provided by the client	
Jsage of samples	
Fest sample description	
dentification of the client	
Festing period and place	5
Document history	
Environmental conditions	
Remarks and comments	
Testing verdicts	6
Summary	
Appendix A: Test results	

DEKRA Testing and Certification, S.A.U.

c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España

Parque Tecnológico de Andalucía, C.I.F. A29 507 456



Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

DEKRA Testing and Certification is a FCC-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

DEKRA Testing and Certification is an ISED-recognized accredited testing laboratory with appropriate scope of accreditation that include testing performed in this test report.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA Testing and Certification S.A.U.

General conditions

- 1. This report is only referred to the item that has undergone the test.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Testing and Certification S.A.U.
- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor k=2) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

Data provided by the client

The following data has been provided by the client:

- Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
- 2. The sample consists of a XS4 Locker, with Bluetooth Smart (BGM111 module) and ISO14443A & ISO15693 standard based technology – Mifare.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 ⋅ 29590 Campanillas ⋅ Málaga ⋅ España C.I.F. A29 507 456



Usage of samples

Samples undergoing test have been selected by: The client.

- Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
58599/006	Electronic Lock	L0B (type reference: E1011)		2019-02-19

Sample S/01 has undergone the following test(s): All tests indicated in Appendix A.

Test sample description

Ports:					Cable			
	Port name and description		Specified max length [m]	Attac during		Shielde		to to atient ⁽³⁾
]			
]			
Supplementary information to the ports:								
Rated power supply:	Volta	ge and Frequency	,		Re	ference p	oles	
	Voltage and Frequency		Ī	L1	L2	L3	N	PE
	□ DC: Internal battery (3x1.5Vdc)							
Rated Power:	Not provided data							
Clock frequencies:	27.12 MHz							
Other parameters:		rovided data						
Software version:	0165	(Control Firmware	e) + 0136 (B	GM111	Firmw	are)		
Hardware version:	1.0							
Dimensions in cm (W x H x D):		10.3 x 1.5 & 10.6	x 9.8 x 2					
Mounting position:		Wall/Ceiling mou	ınted equipr	nent				
Modules/parts:	Modu	le/parts of test iter	m		Т	ype	Manu	facturer
	BGM	111			BLE	Module	Silicor	Labs
Accessories (not part of the test item):	Desc	ription			Туре		Manuf	acturer
i.c.iii <i>j</i>	N/A							

DEKRA Testing and Certification, S.A.U.

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 ⋅ 29590 Campanillas ⋅ Málaga ⋅ España C.I.F. A29 507 456



Documents as provided by the applicant:	Description	File name	Issue date
аррисант	User manual		
	FW explanation document		

Identification of the client

SALTO Systems, S.L. Arkotz 9, Polígono Lanbarren 20180, Oiartzun, Gipuzkoa, SPAIN

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2019-02-19
Date (finish)	2019-03-06

Document history

Report number	Date	Description
58599RRF.001	2019-11-22	First release

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

C.I.F. A29 507 456



In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 35 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Verónica García, Miguel Ángel Torres, Nicolas Salguero, Francisco José Alcaide.

Used instrumentation:

		Last Calibration	Due Calibration
1.	Chamber HERAEUS VMT 04/35	2018/06	2020/06
2.	Signal and Spectrum analyser 10Hz – 40GHz	2018/02	2020/02
	RODHE AND SCHWARZ FSV40		
3.	DC Power Supply 40V/40A GW INSTEK GPS-	N/A	N/A

DC Power Supply 40V/40A GW INSTEK GPS- N/A N/A 3030D
 Digital multimeter FLUKE 179 2019/04 2020/04

Radiated measurements:

Conducted measurements:

		Last Calibration	Due Calibration
1.	Semianechoic Absorber Lined Chamber ETS LINDGREN FACT 3 200 STP	N.A.	N.A.
2.	EMI Test Receiver 9kHz - 7GHz ROHDE AND	2018/10	2020/10
	SCHWARZ ESR7		
3.	Active Loop Antenna SCHWARZBECK FMZB	2018/01	2020/01
	1519B		
4.	RF Pre-amplifier, 40 dB, 10 MHz-6 GHz BONN	2019/02	2020/02
	ELEKTRONIK BLNA 0160-01N		
5.	Biconical/Log Antenna 30 MHz - 6 GHz ETS	2017/09	2020/09
	LINDGREN 3142E		



Testing verdicts

Not applicable:	N/A
Pass:	Р
Fail:	F
Not measured:	N/M

Summary

FCC Part 15.225, 15.209 CANADA RSS-210, RSS-Gen			
Requirement – Test case	Verdict	Remark	
15.225 Subclause (a) / RSS-210 Clause B.6 (a). Field strength of emissions within the band 13.553 - 13.567 MHz	Р		
15.225 Subclause (b) / RSS-210 Clause B.6 (b). Field strength of emissions within the band 13.410 - 13.553 MHz and 13.567 – 13.710 MHz	Р		
15.225 Subclause (c) / RSS-210 Clause B.6 (c). Field strength of emissions within the band 13.110 - 13.410 MHz and 13.710 – 14.010 MHz	Р		
15.225 Subclause (d) / RSS-210 Clause B.6 (d). Field strength of emissions outside of the band 13.110 MHz -14.010 MHz	Р		
15.225 Subclause (e) / RSS-210 Clause B.6. Frequency tolerance of the carrier signal	Р		
Supplementary information and remarks: None			

DEKRA Testing and Certification, S.A.U.

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



Appendix A: Test results.

DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 ⋅ 29590 Campanillas ⋅ Málaga ⋅ España
C.I.F. A29 507 456



INDEX

TEST CONDITIONS	10
Occupied Bandwidth	12
Section 15.225 Subclause (a) / RSS-210 Clause B.6 (a). Field strength of emissions within the band 13.553 - 13.567 MHz	
Section 15.225 Subclause (b) / RSS-210 Clause B.6 (b). Field strength of emissions within the band 13.410 - 13.553 MHz and 13.567 - 13.710 MHz	
Section 15.225 Subclause (c) / RSS-210 Clause B.6 (c). Field strength of emissions within the band 13.110 - 13.410 MHz and 13.710 - 14.010 MHz	
Section 15.225 Subclause (d) / RSS-210 Clause B.6 (d). Field strength of emissions outside of the band 13.110 - 14.010 MHz	25
Section 15.225 Subclause (e) / RSS-210 Clause B.6. Frequency tolerance of the carrier signal	30

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



TEST CONDITIONS

POWER SUPPLY (V):

Vn: 4.5 Vdc (*) Vmin: 3.825 Vdc Vmax: 5.175 Vdc

Type of Power Supply: Battery.

The subscripts 'n', 'min' and 'max' mean nominal, minimum and maximum respectively.

(*): Declared by applicant.

ANTENNA:

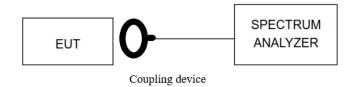
Type of Antenna: Integral (PCB).

TEST FREQUENCY:

Nominal Operating Frequency: 13.56 MHz

CONDUCTED MEASUREMENTS

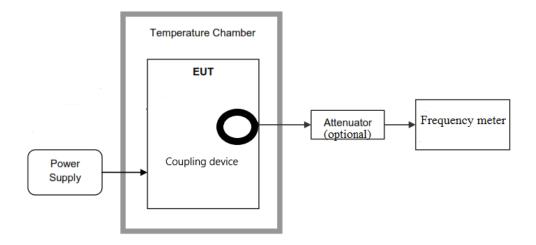
The equipment under test was set up in a shielded room and it is directly connected to the spectrum analyzer through a coupling device.



For frequency stability test the EUT was placed inside a climatic chamber and connected to a frequency meter using a low loss cable and a coupling device. An external DC power supply was connected to the EUT for voltage variation test.

c/ Severo Ochoa nº 2 · 2959 C.I.F. A29 507 456





RADIATED MEASUREMENTS

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Loop antenna for the range between 9 kHz to 30 MHz and Bilog antenna for the range between 30 MHz to 200 MHz) is situated at a distance of 3 m.

For radiated emissions in the range 9 kHz to 30 MHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 40 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and in the range between 30 MHz and 200 MHz the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

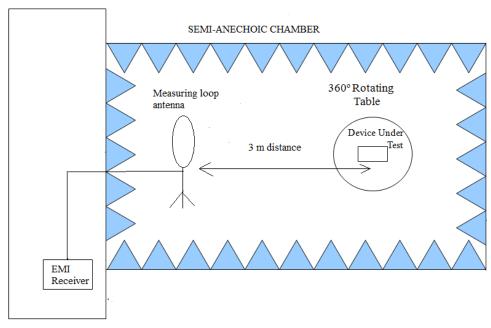
In the range between 9 kHz and 30 MHz the measurements were made in the three different orientation planes of the loop antenna to determine the maximum received field.

In the range between 30 MHz and 200 MHz the measurements were made in both horizontal and vertical planes of polarization.

The test was performed with the equipment transmitting first with only the 13.56 MHz radio and repeated with Bluetooth Low Energy 2.4 GHz radio transmitting simultaneously to check the impact of the co-location of the other radio interfaces. The results and plots below show the worst results obtained.

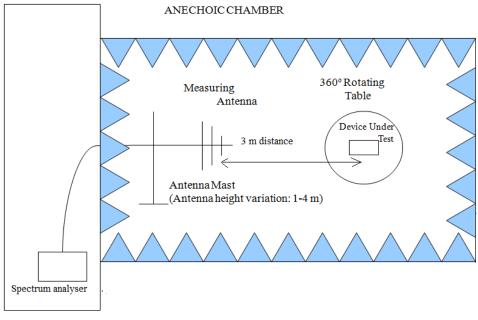


Radiated measurements setup 9 kHz to 30 MHz:



Shielded Control Room For Radiated Measurements

Radiated measurements setup 30 MHz to 200 MHz:



Shielded Control Room For Radiated Measurements



Occupied Bandwidth

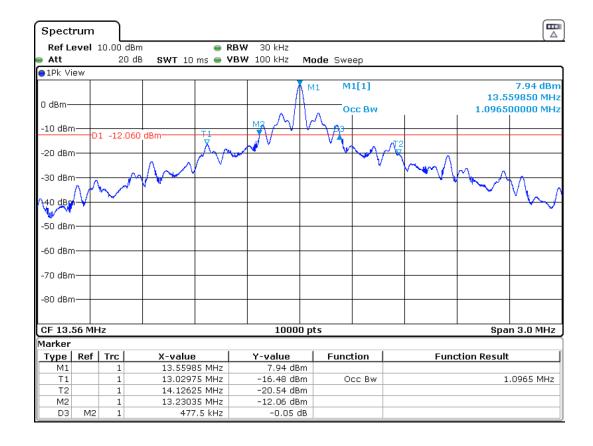
RESULTS:

99 % Occupied Bandwidth and 20 dB Bandwidth.

NFC mode ISO 14443A

Operation Mode	99% Occupied Bandwidth (kHz)	20 dB Bandwidth (kHz)
NFC mode ISO 14443A	1096.5	477.5
Measurement uncertainty (kHz)	<±0.40	

- 99% Occupied Bandwidth and 20 dB Bandwidth:

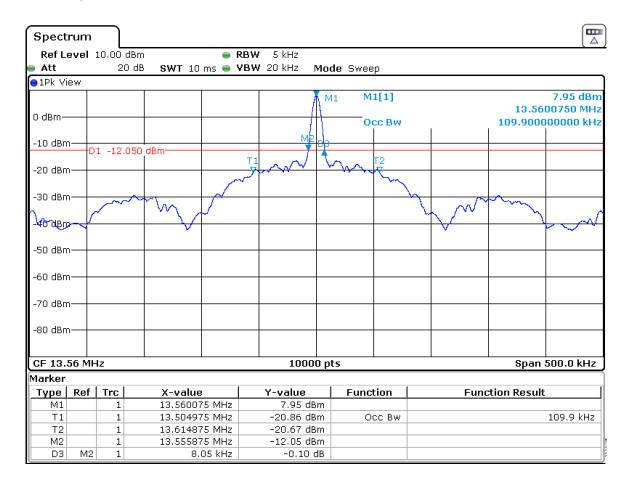




• NFC mode ISO 15693

Operation Mode	99% Occupied Bandwidth (kHz)	20 dB Bandwidth (kHz)
NFC mode ISO 15693	109.9	8.05
Measurement uncertainty (kHz)	<±0.4	

- 99% Occupied Bandwidth and 20 dB Bandwidth:



Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España

C.I.F. A29 507 456



Section 15.225 Subclause (a) / RSS-210 Clause B.6 (a). Field strength of emissions within the band 13.553 - 13.567 MHz

SPECIFICATION:

The field strength of any emissions within the band 13.553 – 13.567 MHz shall not exceed 15,848 microvolts/meter (84 dBµV/m) at 30 meters.

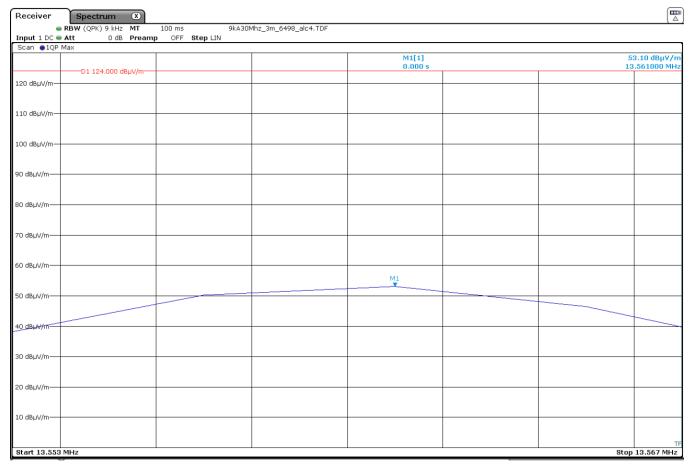
RESULTS:

Measurement distance: 3 meters.

NFC mode ISO 14443A

The maximum field strength of fundamental emission:

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.561	53.1	13.1
Measurement uncertainty (dB)	<±3	.44



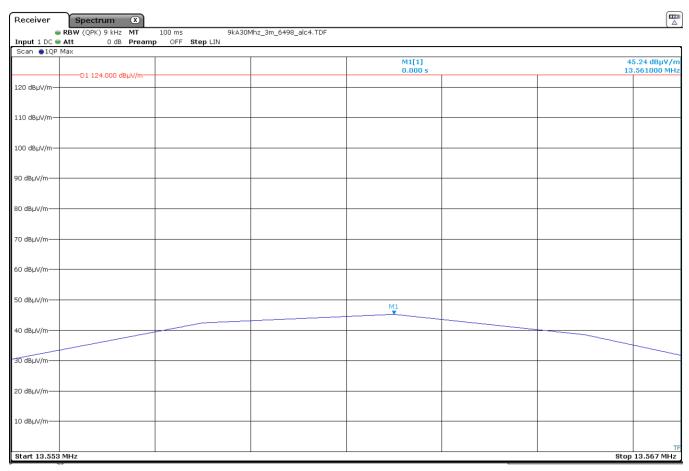
The limit shown in the above plot is extrapolated to 3 meters



NFC mode ISO 15693

The maximum field strength of fundamental emission:

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.561	45.24	5.24
Measurement uncertainty (dB)	<±3	3.44



The limit shown in the above plot is extrapolated to 3 meters

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



Section 15.225 Subclause (b) / RSS-210 Clause B.6 (b). Field strength of emissions within the band 13.410 - 13.553 MHz and 13.567 - 13.710 MHz

SPECIFICATION:

Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter (50.47 dBµV/m) at 30 meters.

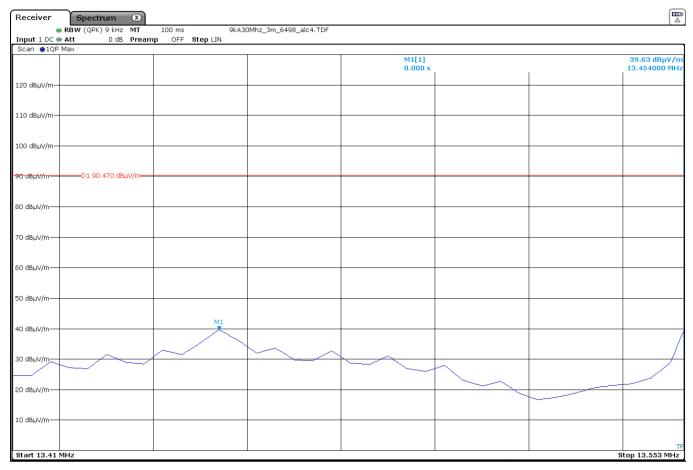
RESULTS:

Measurement distance: 3 meters.

- Band 13.410 - 13.553 MHz

NFC mode ISO 14443A

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.454	39.63	-0.37
Measurement uncertainty (dB)	<±:	3.44

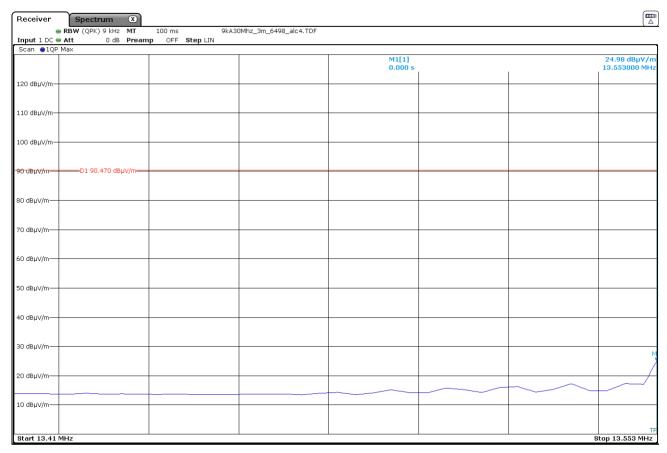


The limit shown in the above plot is extrapolated to 3 meters



NFC mode ISO 15693

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.553	24.98	-15.02 [′]
Measurement uncertainty (dB)	<±3	3.44



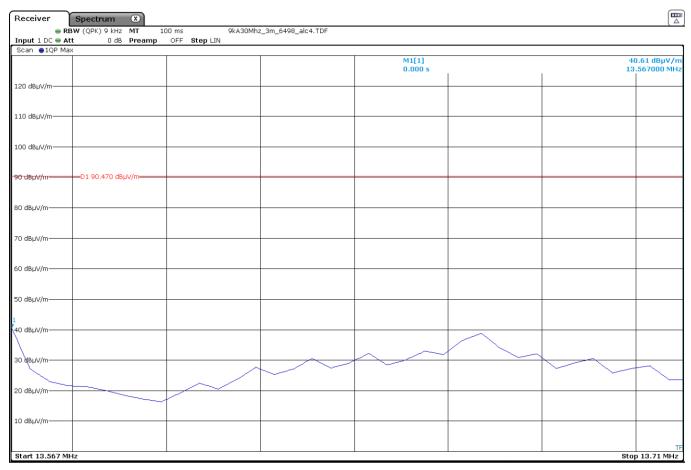
The limit shown in the above plot is extrapolated to 3 meters



- Band 13.567-13.710 MHz

• NFC mode ISO 14443A

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.567	40.61	0.61
Measurement uncertainty (dB)	< <u>+</u>	-3.44

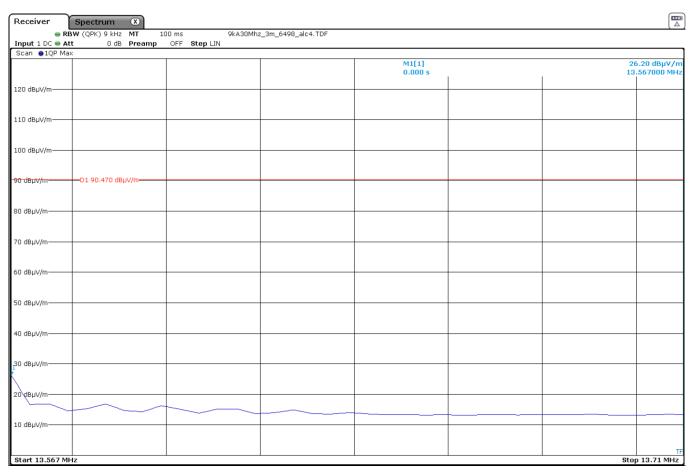


The limit shown in the above plot is extrapolated to 3 meters



NFC mode ISO 15693

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBμV/m) extrapolated to 30 m (40 dB/decade)
13.567	26.2	-13.8
Measurement uncertainty (dB)	<±3.44	



The limit shown in the above plot is extrapolated to 3 meters

C.I.F. A29 507 456



Section 15.225 Subclause (c) / RSS-210 Clause B.6 (c). Field strength of emissions within the band 13.110 - 13.410 MHz and 13.710 - 14.010 MHz

SPECIFICATION:

Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz, the field strength of any emissions shall not exceed 106 microvolts/meter (40.51 dBµV/m) at 30 meters.

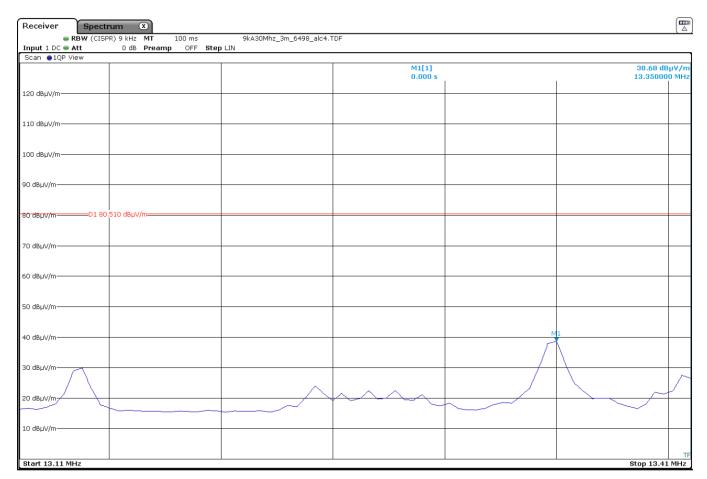
RESULTS:

Measurement distance: 3 meters.

- Band 13.110-13.410 MHz

NFC mode ISO 14443A

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
	detector)	, , , , , , , , , , , , , , , , , , , ,
13.350	38.68	-1.32
Measurement uncertainty (dB)	<±3.44	



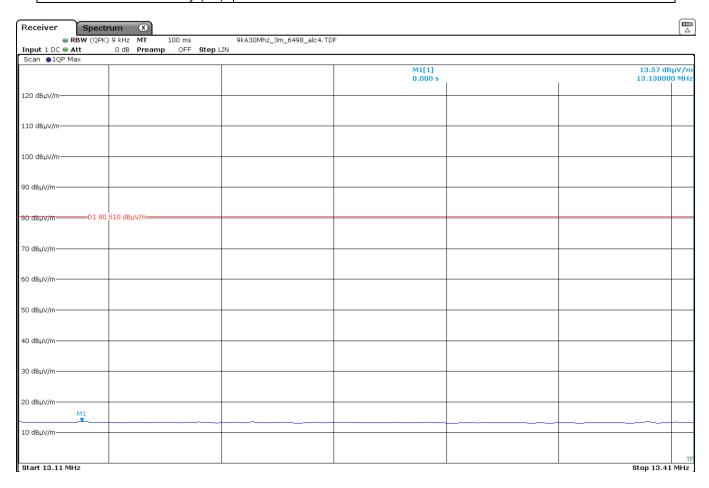
The limit shown in the above plot is extrapolated to 3 meters

Parque Tecnológico de Andalucía, c/ Severo Ochoa nº 2 · 29590 Campanillas · Málaga · España C.I.F. A29 507 456



NFC mode ISO 15693

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.138	13.57	-26.43
Measurement uncertainty (dB)	<±3.44	



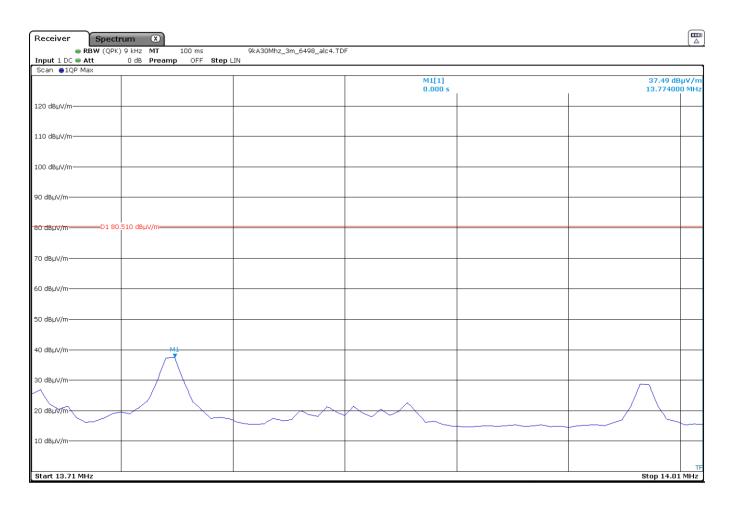
The limit shown in the above plot is extrapolated to 3 meters



- Band 13.710-14.010 MHz

NFC mode ISO 14443A

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.774	37.49	-2.51
Measurement uncertainty (dB)	±3.44	



The limit shown in the above plot is extrapolated to 3 meters

DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía,
c/ Severo Ochoa nº 2 ⋅ 29590 Campanillas ⋅ Málaga ⋅ España
C.I.F. A29 507 456

DEKRA

NFC mode ISO 15693

Frequency (MHz)	Maximum field strength (dBµV/m) measured at 3 m (quasi-peak detector)	Maximum field strength (dBµV/m) extrapolated to 30 m (40 dB/decade)
13.730	13.07	-26.93
Measurement uncertainty (dB)	±3.44	

	100 ms 9kA30Mhz_3m_6498_alc4.1	rDF		
nput 1 DC ● Att 0 dB	OFF Step LIN			_
		M1[1] 0.000 s	13.07 dB 13.730000	μ¥/ 0 ΜΙ
20 dBμV/m-				
10 10 11				
.O dBμV/m-				
00 dBµV/m-				_
) dBµV/m-				
, авруи				
dBpV/m————D1 80.510 dBpV/m———				_
dBµV/m-				
абрулп				
dBμV/m-				
dBµV/m-				
dBμV/m-				
dBμV/m-				
dBμV/m M1				
M1 ▼ I dBµV/m				
tart 13.71 MHz			Stop 14.01	_

The limit shown in the above plot is extrapolated to 3 meters





Section 15.225 Subclause (d) / RSS-210 Clause B.6 (d). Field strength of emissions outside of the band 13.110 - 14.010 MHz

SPECIFICATION:

Field strength of any emissions appearing outside of the band 13.110 MHz - 14.010 MHz band shall not exceed the general radiated emission limits in 15.209/RSS-Gen:

Frequency Range (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	29.54	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

RESULTS:

All tests were performed in a semi-anechoic chamber at a distance of 3 m.

The spectrum was inspected from 9 kHz to 200 MHz searching for spurious signals.

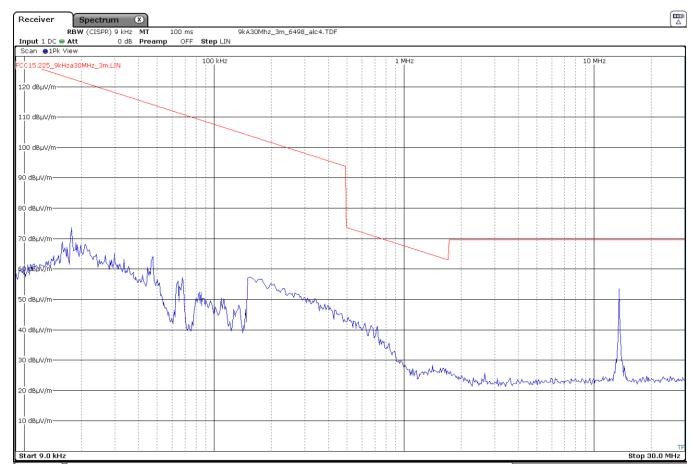
The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifier gain.



- Frequency range 9 kHz - 30 MHz:

NFC mode ISO 14443A

No spurious frequencies were found at less than 20 dB below the limit.



The limits shown in the above plot are extrapolated to 3 meters. The highest peak corresponds to the carrier level.

Resolution bandwidth: 200 Hz for 9 kHz \leq f \leq 150 kHz 9 kHz for 150 kHz \leq f \leq 30 MHz

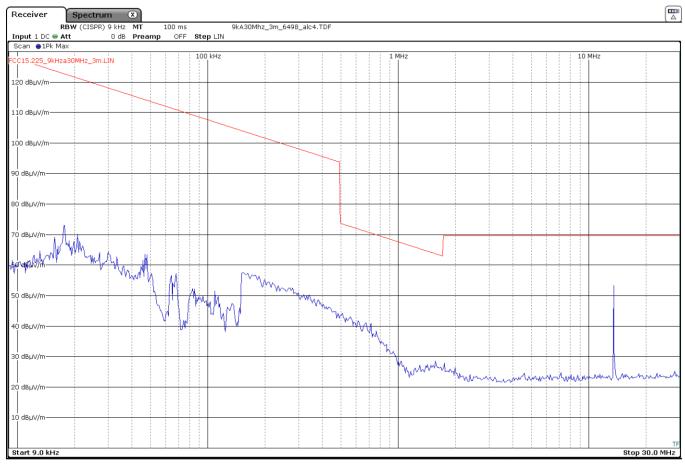
Measurement uncertainty	<±3.04 dB

C.I.F. A29 507 456



NFC mode ISO 15693

No spurious frequencies were found at less than 20 dB below the limit.



The limits shown in the above plot are extrapolated to 3 meters. The highest peak corresponds to the carrier level.

Resolution bandwidth: 200 Hz for 9 kHz \leq f \leq 150 kHz 9 kHz for 150 kHz \leq f \leq 30 MHz

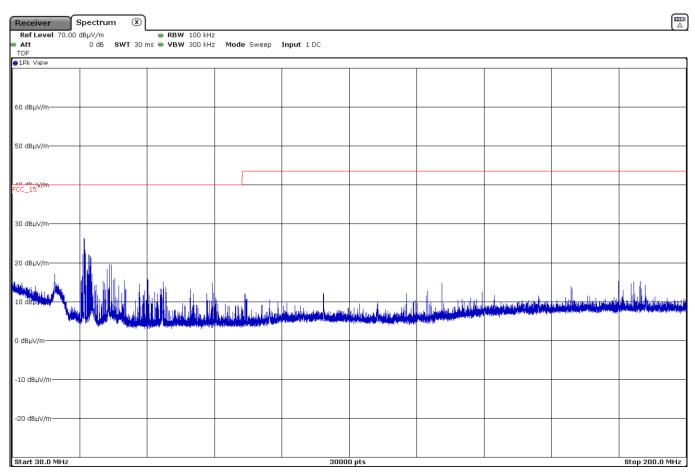
NA	- 0 04 -ID
Measurement uncertainty	<±3.04 dB



- Frequency range 30 - 200 MHz

NFC mode ISO 14443A

No spurious frequencies were found at less than 20 dB below the limit

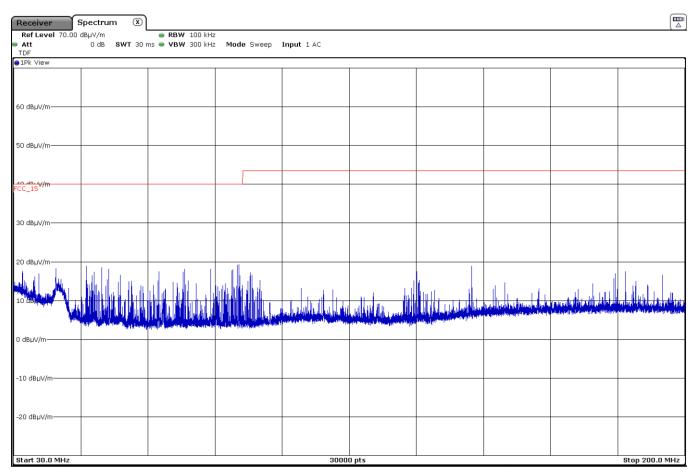


The above plot shows the results of the scan using peak detector.



NFC mode ISO 15693

No spurious frequencies were found at less than 20 dB below the limit



The above plot shows the results of the scan using peak detector.

Measurement uncertainty	<±2.07 dB





Section 15.225 Subclause (e) / RSS-210 Clause B.6. Frequency tolerance of the carrier signal

SPECIFICATION:

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

RESULTS:

Nominal Operating Frequency: 13.56 MHz.

NFC mode ISO 14443A

- Frequency stability over temperature variations:

Temperature (°C)	Frequency Error (KHz)	Frequency Error (%)
+50	0.156500	0.001154
+40	0.156000	0.001150
+30	0.211500	0.001560
+20	0.225500	0.001663
+10	0.199000	0.001468
0	0.217500	0.001604
-10	0.212000	0.001563
-20	0.186500	0.001375

- Frequency stability over voltage variations:

DC Supply	Voltage (V)	Frequency Error (KHz)	Frequency Error (%)
Vmax	5.175	0.212500	0.001567
Vmin	3.825	0.225000	0.001659



NFC mode ISO 15693

- Frequency stability over temperature variations:

Temperature (°C)	Frequency Error (KHz)	Frequency Error (%)
+50	0.066400	0.000490
+40	0.135350	0.000998
+30	0.150850	0.001112
+20	0.206800	0.001525
+10	0.227800	0.001680
0	0.266800	0.001968
-10	0.285550	0.002106
-20	0.273550	0.002017

- Frequency stability over voltage variations:

DC Supply	Voltage (V)	Frequency Error (KHz)	Frequency Error (%)
Vmax	5.175	0.206850	0.001525
Vmin	3.825	0.205850	0.001518