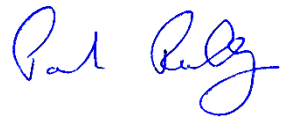


<b>Project Num</b>	21E9510-1b
<b>Quotation</b>	Q21-2503-1
<b>Prepared For</b>	Nordic ID Oy
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<b>Prepared By</b>	Compliance Engineering Ireland
<b>Test Lab Address</b>	Clonross Lane, Derrockstown, Dunshaughlin, Co. Meath, Ireland
<b>Tested By</b>	Michael Kirby
<b>Test Report By</b>	Michael Kirby
<b>FCC Test Firm Registration</b>	409640
<b>IC Site Registration</b>	IE0001
<b>Date</b>	29 <sup>th</sup> Oct 2021
<b>IC Equipment Authorisation</b>	Test Report
<b>EUT Description</b>	RFID Module
<b>FCC ID</b>	SCCNUR31W6
<b>IC ID</b>	5137A-NUR31W6
<b>Authorised by</b>	<b>Paul Reilly</b>
<b>Authorised Signature:</b>	

## TEST SUMMARY

The equipment complies with the requirements according to the following standards.

15.-247 Section	RSS-247 Section	TEST PARAMETERS	Test Result
15.247(a)	5.1(a)	20dB bandwidth of hopping Channel	Pass
15.247(a)	5.1(b)	Hopping Frequency Separation	Pass
1.247(a)	5.1(c)	Number of Hopping Channels	Pass
15.247(a)	5.1(c)	Average Time of Occupancy	Pass
15.247(b)	5.4	Output power	Pass
15.247(d)	5.5	Conducted Spurious Emissions	Pass
	RSS Gen 6.7	99% bandwidth	Pass
15.205 15.209	RSS Gen 8.9 and 8.10	Radiated Spurious Emissions for restricted bands	Pass
15.207	RSS Gen 8.8	Conducted Emissions on the mains	Pass

RSS 247 Issue 2 Mar16 2017  
RSS-Gen Issue 5 Amd2 Feb 2021

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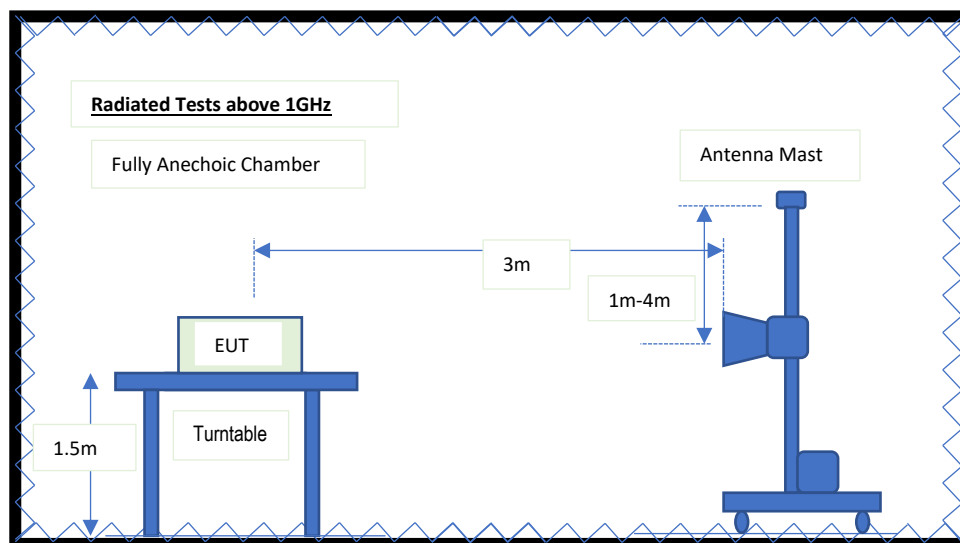
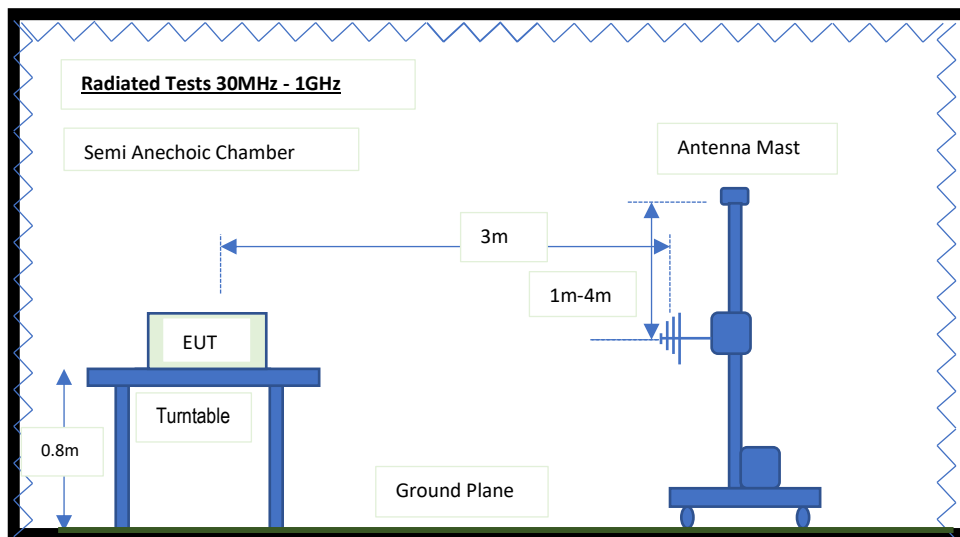
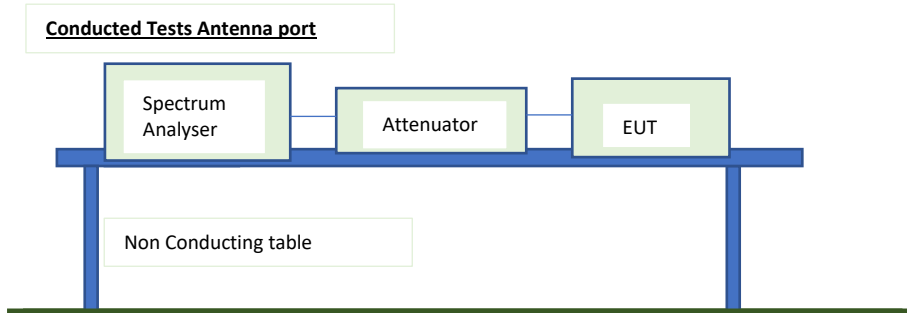
## 1.0 EUT Description

<b>FCC ID</b>	SCCNUR31W6
<b>IC ID</b>	5137A-NUR31W6
<b>Model:</b>	NUR3-1W6
<b>Type:</b>	RFID Module
<b>Test Standards:</b>	47 CFR, Part 15.247
<b>Type of radio:</b>	Stand-alone
<b>Transmitter Type:</b>	RFID FHSS
<b>Operating FrequencyRange(s):</b>	902.75-927.25 MHz
<b>Number of Channels:</b>	50
<b>Channel Separation:</b>	500KHz
<b>Antenna:</b>	External
<b>Classification:</b>	DSS
<b>Test Methodology:</b>	Measurements performed according to the procedures in ANSI C63.10-2013 KDB 558074 V5 R02

The NUR-0W1 was an RFID module using frequency hopping in the 902-928MHz frequency band.

This report contains 21E9510-1b Appendix E F G  
Please refer to the main document 21E9510-1b

## Appendix E Block Diagrams of test set up



## Appendix F

### Summary of Antennas and EUT samples

The EUT contained a transmitter using frequency hopping in the 915MHz band.

All tests were performed on EUT sample labelled "Sample 001"

#### 1 Antenna 902.75-927.75 MHz

##### 1.1 Antenna Details

External Antenna  
Max Gain 6 dBi  
Impedance 50Ω

1.2 All Radiated tests were performed with the antenna port terminated

**Appendix G**  
**Conducted Measurements Spurious Emissions in restricted bands**

Freq	Quasi Peak	Antenna Gain	EIRP	20log(D)	Conversion Factor	Duty cycle correction	Max Ground Reflection	E	Limit	Margin	Pass/Fail
MHz	dBm	dBi	dB	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	
135	-69.5	6	-63.5	-9.54	104.8	0	4.7	36.46	43.52	7.06	Pass
960	-60.1	6	-54.1	-9.54	104.8	0	4.7	45.86	46.02	0.16	Pass

Freq	Peak	Max Ant Gain	EIRP	20log(D)	Conversion Factor	Duty cycle correction	Max Ground Reflection	E	Limit	Margin	Pass/Fail
GHz	dBm	dBi	dB	dB	dB	dB	dB	dBuV/m	dBuV/m	dB	
2.708	-52.1	6	-46.1	-9.54	104.80	0.00	0.0	49.16	74	24.84	Pass
2.744	-48.2	6	-42.2	-9.54	104.80	0.00	0.0	53.06	74	20.94	Pass
2.781	-47.4	6	-41.4	-9.54	104.80	0.00	0.0	53.86	74	20.14	Pass

Average measurements not performed as the Peak level met the Average limit of 54dBuV/m

**Test Result Pass**

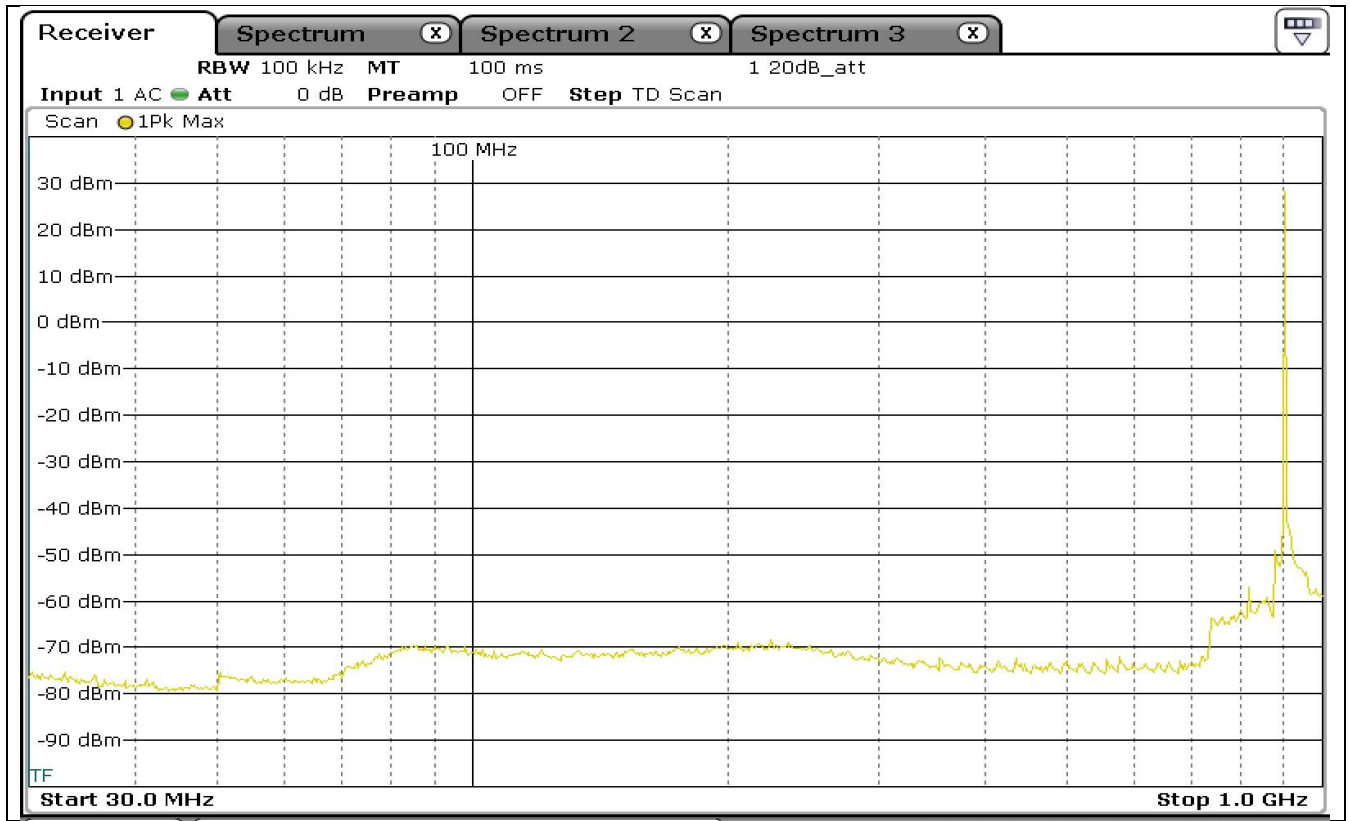


Fig G1 Low Channel Conducted Spurious Emissions 30MHz -3.6GHz

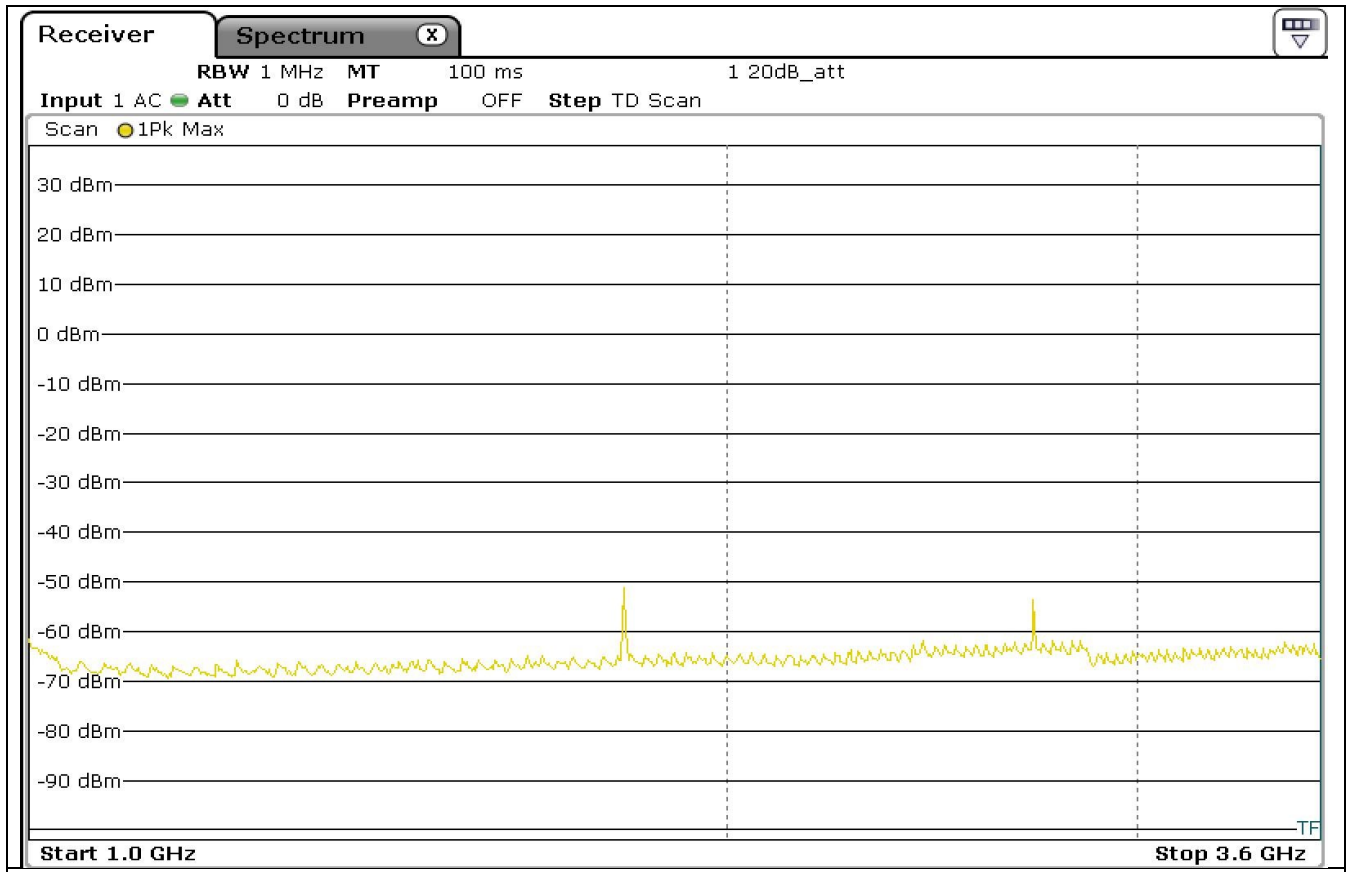
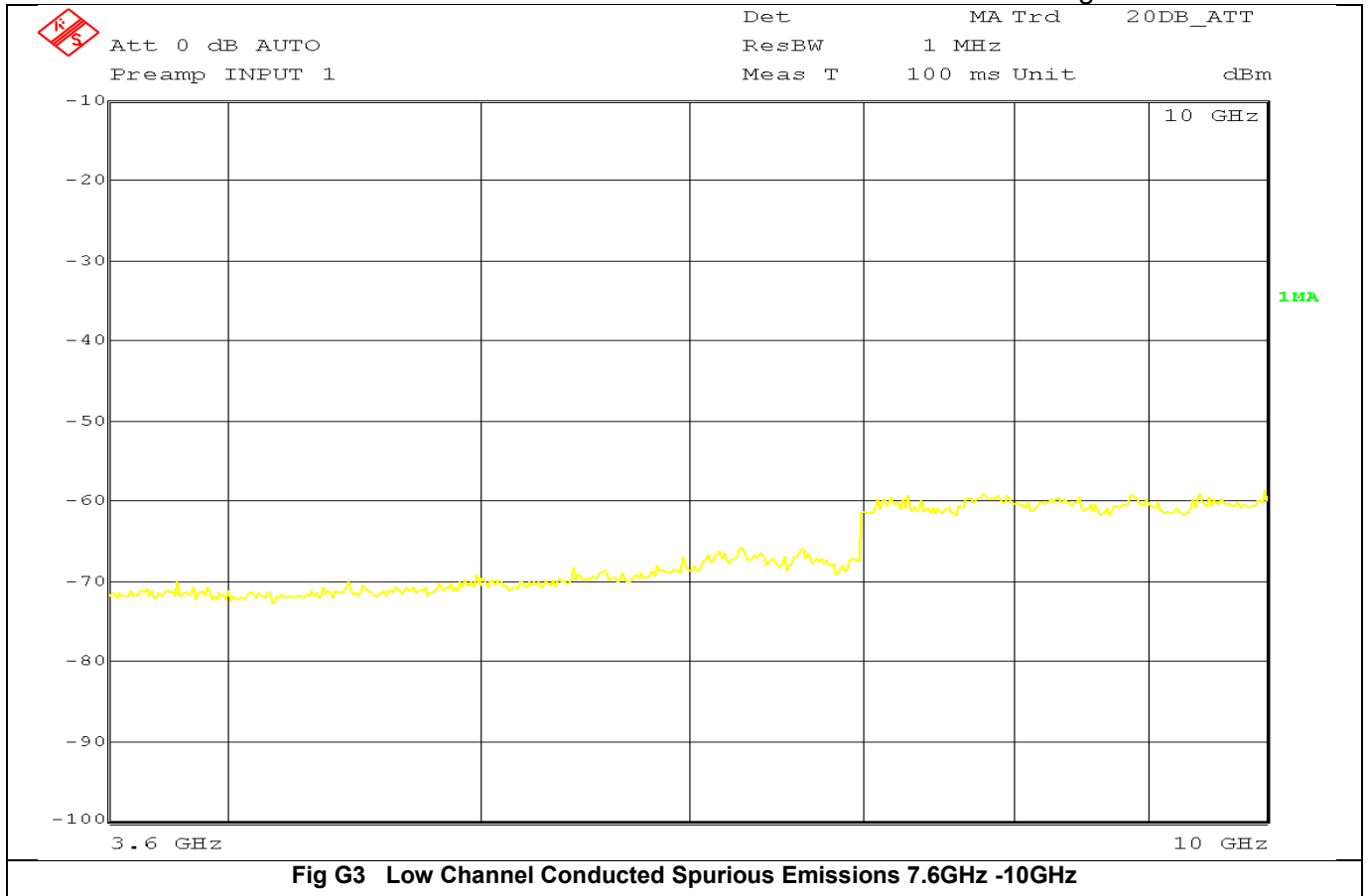


Fig G2 Low Channel Conducted Spurious Emissions 3.6GHz-7.6GHz



End of Report