




<b>Prüfbericht-Nr.:</b> <i>Test report no.:</i>	<b>60431077-004 Appendix 1</b>	<b>Auftrags-Nr.:</b> <i>Order no.:</i>	23870469 030	Seite 1 von 12 Page 1 of 12
<b>Kunden-Referenz-Nr.:</b> <i>Client reference no.:</i>	1288983	<b>Auftragsdatum:</b> <i>Order date:</i>	2020.11.29	
<b>Auftraggeber:</b> <i>Client:</i>	IKEA of Sweden AB			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Hub for smart products			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type no.:</i>	DIRIGERA / E2003 / FCC ID: FHO-E2003			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	Accredited testing according to FCC Part 15E			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	FCC 47 CFR Part 15.407 with parts 15.207 & 15.209 ANSI C63.10: 2013			
<b>Wareneingangsdatum:</b> <i>Date of sample receipt:</i>	2020.11.30			
<b>Prüfmuster-Nr.:</b> <i>Test sample no.:</i>	See section 2.3			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2020.12.10 - 2021.03.30			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Lund, Sweden			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland Sweden			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>überprüft von:</b> <i>reviewed by:</i>		<b>genehmigt von:</b> <i>authorized by:</i>		
<b>Datum: 2022.02.14</b> <i>Date:</i>	Signed by: Niall Forrester	<b>Datum: 2022.02.14</b> <i>Date:</i>	Signed by: Hakan Ahlberg	
<b>Stellung / Position:</b>	Senior Technical Expert	<b>Stellung / Position:</b>	Lab Manager	
<b>Sonstiges / Other:</b>	This report contains measurements for the WLAN 5GHz radio interface only			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts.</i></p>				

## Revision History

REVISION	DATE	REMARKS	AUTHOR
001	2021.04.30	First Release	Niall Forrester
002	2021.09.28	Corrected gain figures, updated module name.	Niall Forrester
003	2021.12.06	Replaced gain with module figure	Niall Forrester
004	2022.02.14	Corrected U-NII band for CH 144 and ac maximum power reference	Niall Forrester

Note: Latest revision report will replace all previous reports

This report based on FCC Part 15.407 Template version 1.0

## Table of Contents

1. GENERAL INFORMATION .....	3
1.1 Test Site .....	3
1.2 Client Information .....	3
2. Photographs .....	4
2.1 Photographs of the EUT .....	4
2.2 Test Setup Photographs: Radiated Emission 9 kHz – 30 MHz .....	6
2.3 Test Setup Photographs: Radiated Emission 30 MHz – 1 GHz .....	9
2.4 Test Setup Photographs: Radiated Emissions 1 GHz – 18 GHz .....	10
2.5 Test Setup Photographs: Radiated Emissions 18 GHz – 40 GHz .....	11
2.6 Test Setup Photographs: Conducted Emissions .....	12

## 1. GENERAL INFORMATION

### 1.1 Test Site

Test Facility:	TÜV Rheinland Sweden AB
Address:	Mobilvägen 10
	223 62 Lund
	Sweden
Swedac Registration Number:	10325
FCC Test Firm Registration Number:	517458
ISED Test Site Registration Number:	24753

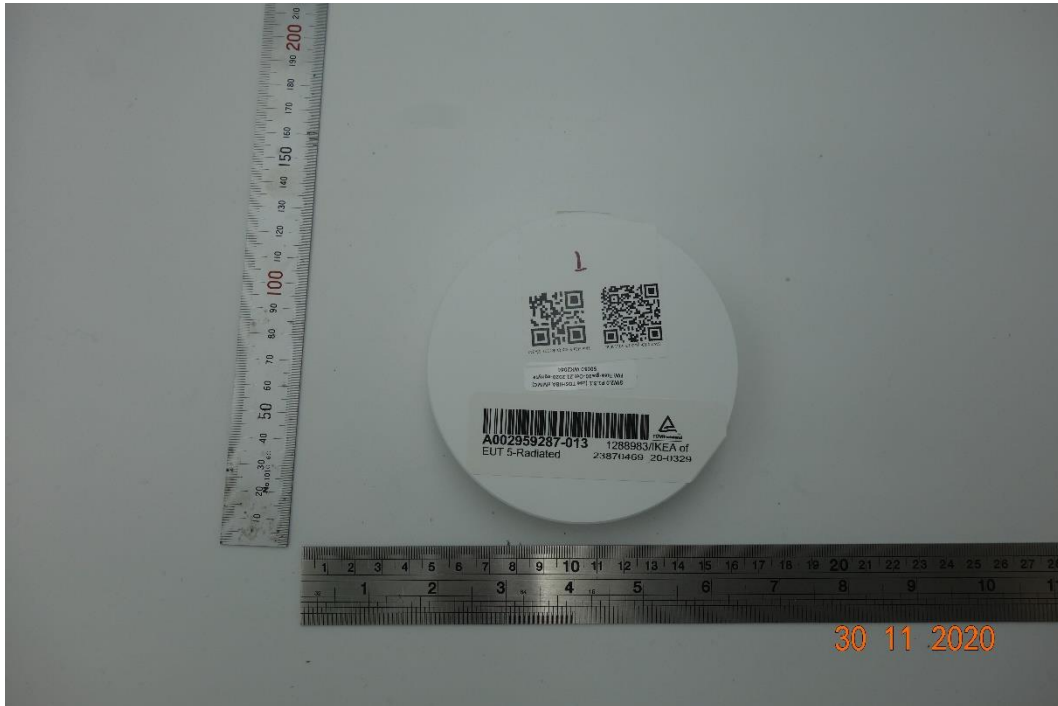
### 1.2 Client Information

Company Name:	IKEA
Address:	Tulpanvägen 8
	343 34 Älmhult
	Sweden
Contact Person:	Jeton Salihu
Contact e-Mail / Telephone	<a href="mailto:Jeton.salihu@inter.ikea.com">Jeton.salihu@inter.ikea.com</a> +46 701443175

## 2. Photographs

### 2.1 Photographs of the EUT

Top View



Side View



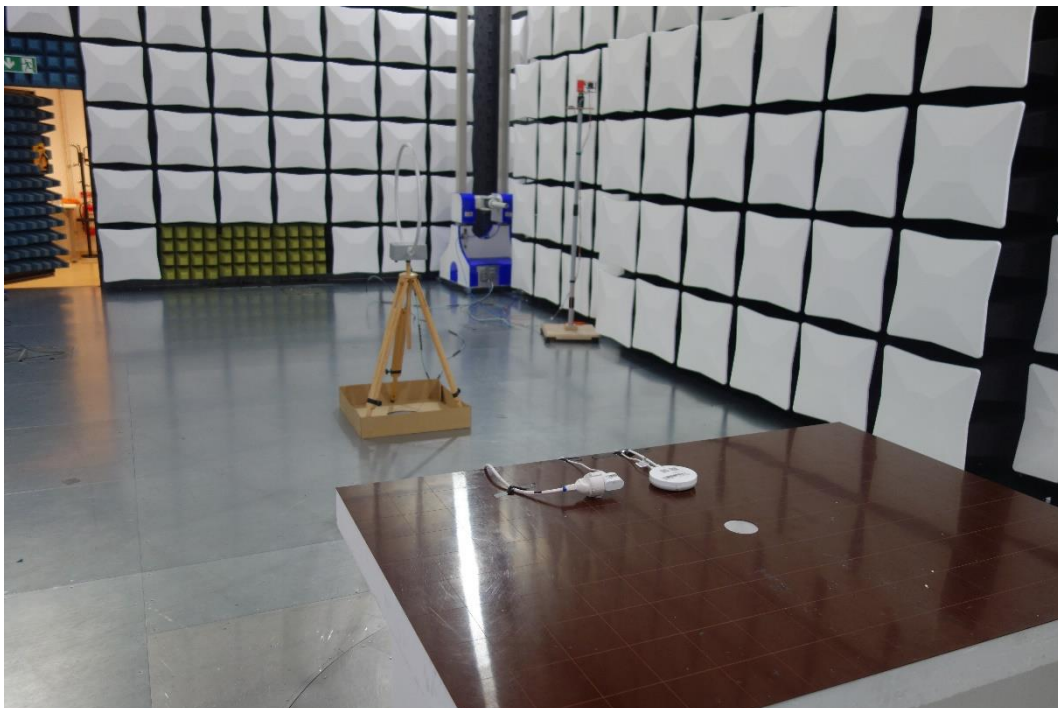
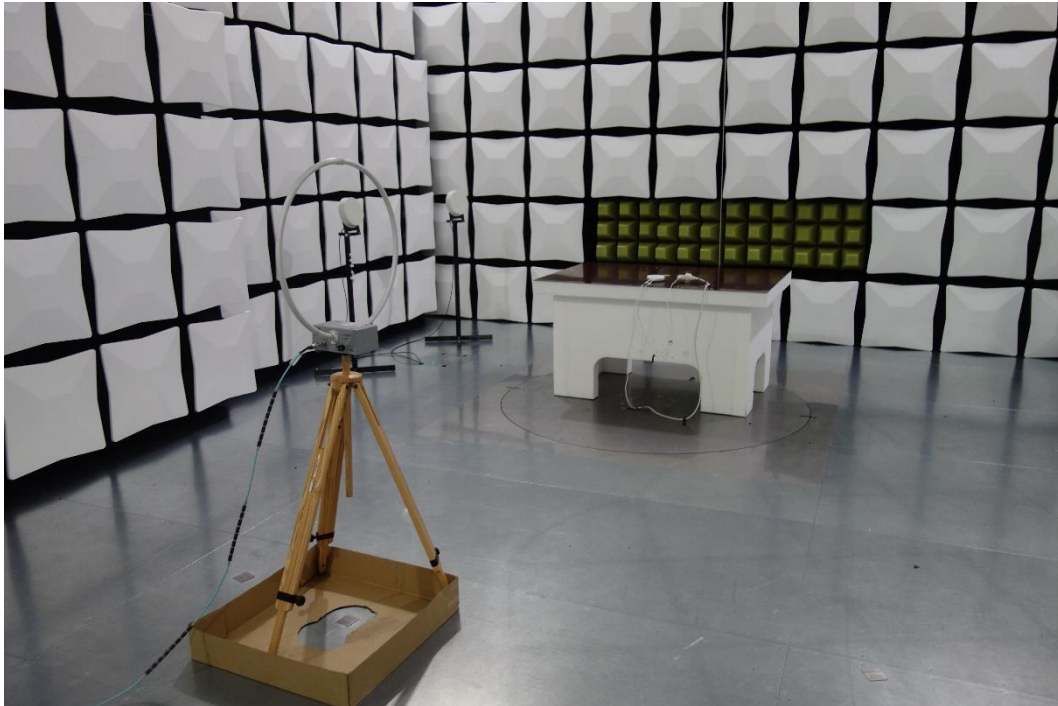
Bottom View



Device with Power Supply and USB Cable



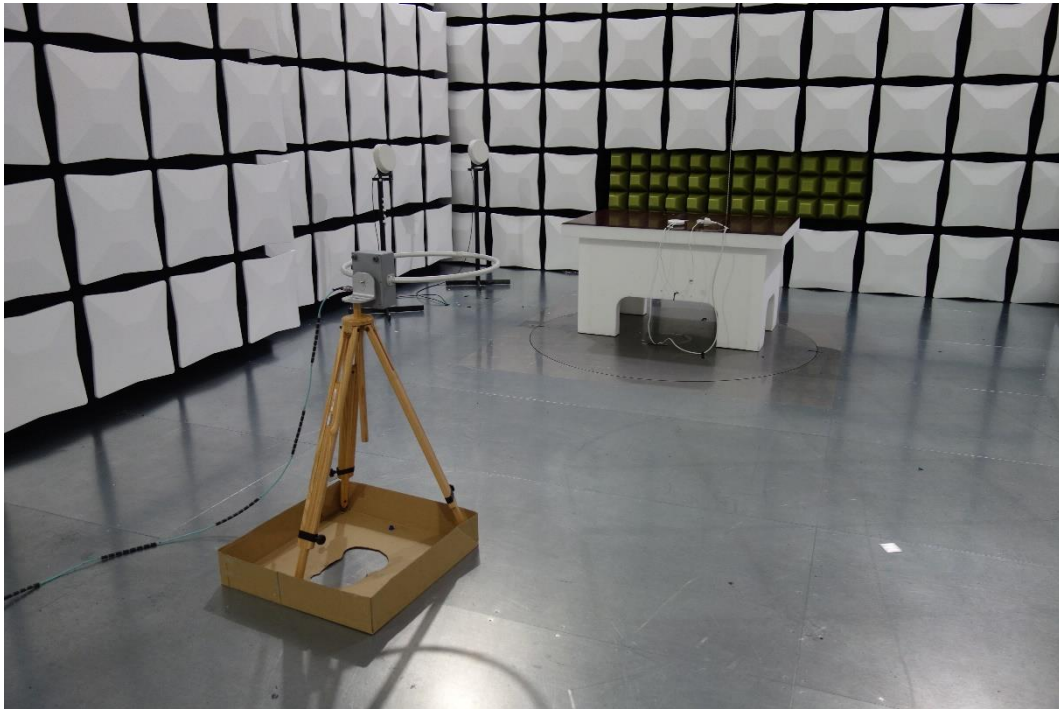
## 2.2 Test Setup Photographs: Radiated Emission 9 kHz – 30 MHz Loop Antenna Parallel to Axis



Loop Antenna Perpendicular to Axis

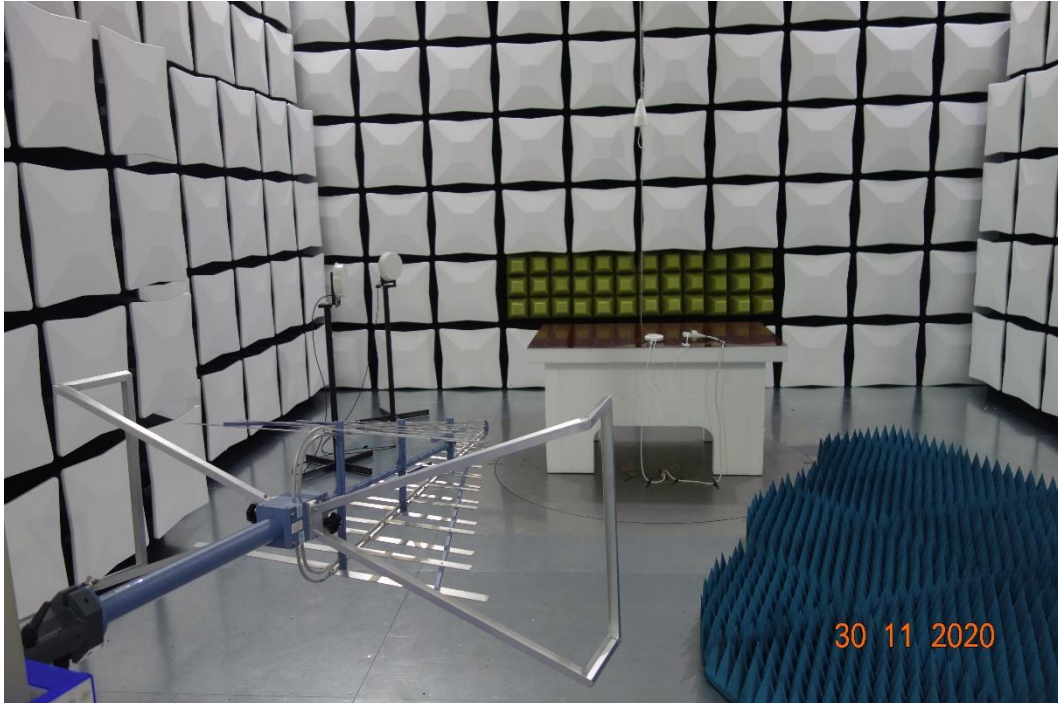


**Loop Antenna Parallel to Floor**

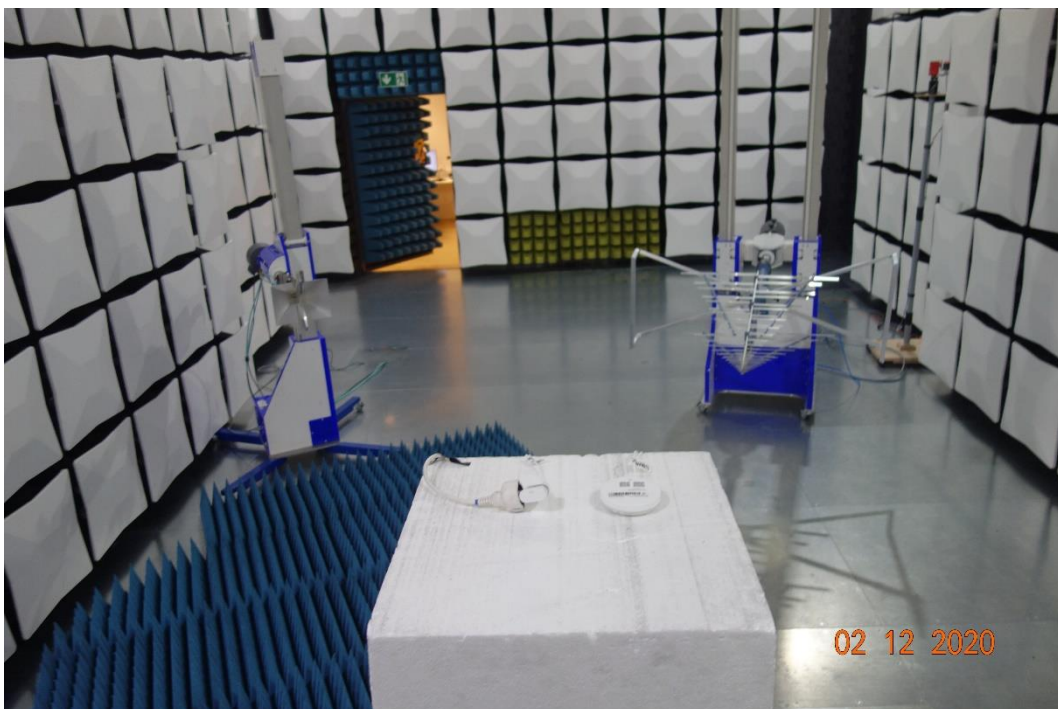




## 2.3 Test Setup Photographs: Radiated Emission 30 MHz – 1 GHz



## 2.4 Test Setup Photographs: Radiated Emissions 1 GHz – 18 GHz



## 2.5 Test Setup Photographs: Radiated Emissions 18 GHz – 40 GHz



## 2.6 Test Setup Photographs: Conducted Emissions

