

Annex 1: Measurement diagrams to Test Report 20-1-0017101T04a-C1-A1



Number of pages:	5	Date of Report:	2021-Mar-16
Testing company:	CETECOM GmbH Im Teelbruch 116 45219 Essen Germany Tel. + 49 (0) 20 54 / 95 19-0 Fax: + 49 (0) 20 54 / 95 19-150	Applicant:	SICK AG
Test Object / Tested Device(s):	UWB Tag LOCU111-0020		
FCC ID:	WRMLOCU1	IC:	10066A-LOCU1
Testing has been carried out in accordance with:	FCC Regulations: Title 47 CFR, Chapter I FCC Regulations, Subchapter A Subpart B: §15.107, §15.109 (Class B limits) ISED Regulations: ICES-003, Issue 6 (2016+Update 2019)		

1 Measurement diagrams

3.01

Common Information

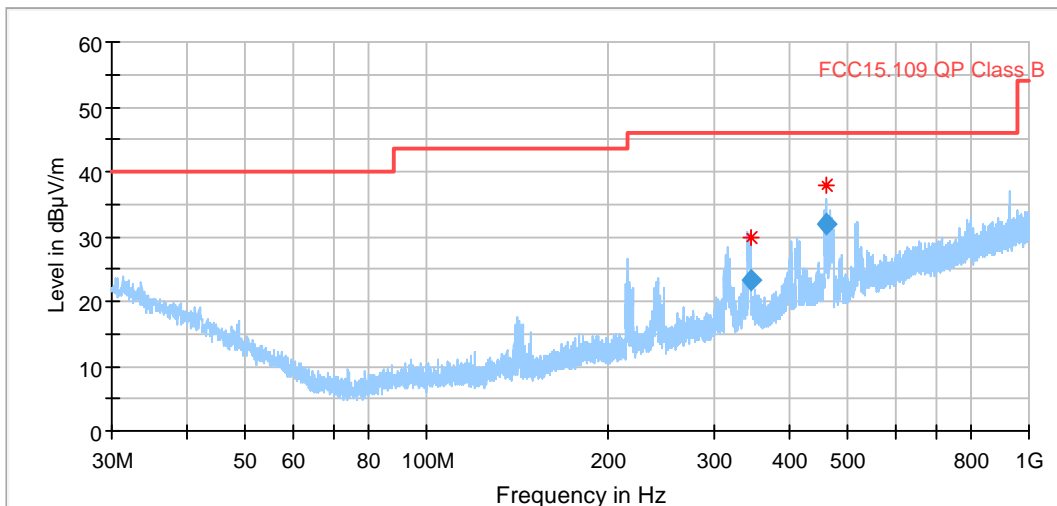
Test Description: Electric Field Strength Measurement
 Test Spec.: FCC15.109/ ICES-003, Issue 6
 Antenna: receiving antenna is directed to all sides
 Operating Mode: All Radios OFF / Sensors ON: Accelerometer + Gyroscope + Magnetometer + Barometer
 Environmental Conditions: Humidity : 40% rH; Temperature: 20 °C
 Operator: HLa
 Verdict: Passed

EUT Information

PMT number: 20-1-00171S08_C01
 Manufacturer: SICK AG
 Product: UWB Tag
 Model: LOC111-0020

 HW version: v1r3
 FW version: 3.125.7 UWB TX off
 Serial number: 1949 0124
 Connected Interfaces: --
 Power Supply: 12 V DC
 Comments: EUT laying

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
346.020000	29.91	46.00	15.18	---	---	119.0	H	346.0	16.5
459.564000	37.99	46.00	10.17	---	---	119.0	H	296.0	19.6

3.02

Common Information

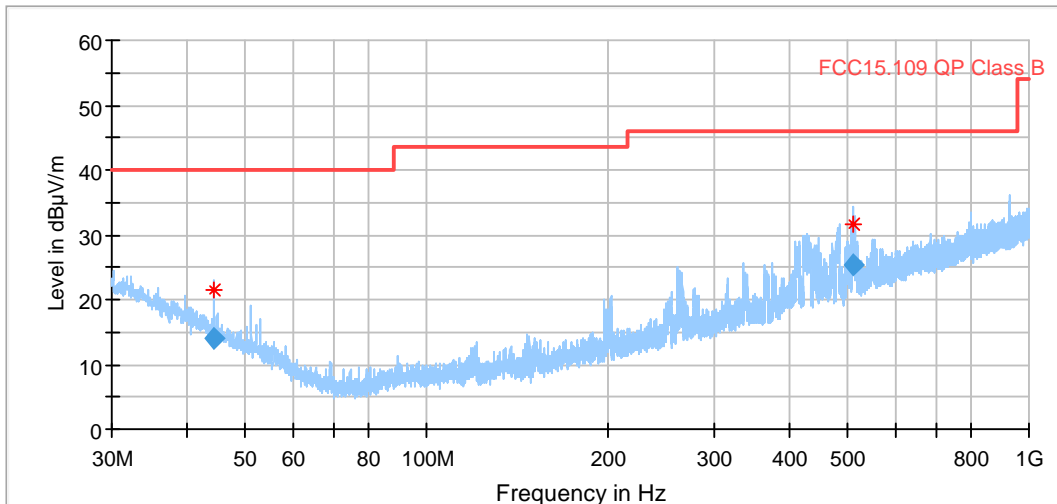
Test Description:	Electric Field Strength Measurement
Test Spec.:	FCC15.109/ ICES-003, Issue 6
Antenna:	receiving antenna is directed to all sides
Operating Mode:	All Radios OFF / Sensors ON: Accelerometer + Gyroscope + Magnetometer + Barometer
Environmental Conditions:	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLa
Verdict:	Passed

EUT Information

PMT number:	20-1-00171S08_C01
Manufacturer:	SICK AG
Product:	UWB Tag
Model:	LOCU111-0020

HW version:	v1r3
FW version:	3.125.7 UWB TX off
Serial number:	1949 0124
Connected Interfaces:	--
Power Supply:	12 V DC
Comments:	EUT standing

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.316000	21.48	40.00	17.15	---	---	109.0	V	112.0	15.3
511.560000	31.63	46.00	11.70	---	---	187.0	H	1.0	20.2

4.01

Common Information

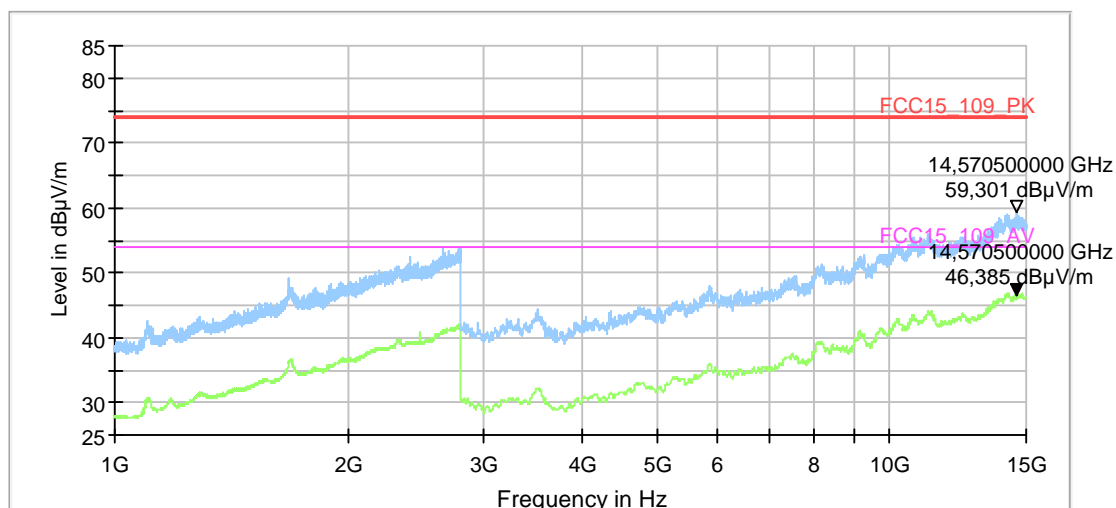
Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 15.109, class B / ICES-003, Issue 6
Operating Mode:	All Radios OFF / Sensors ON: Accelerometer + Gyroscope + Magnetometer + Barometer
Equipment Class:	Class B
Environmental Conditions::	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLA
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-00171S08_C01
Manufacturer:	SICK AG
Product:	UWB Tag
Model:	LOCU111-0020

HW version:	v1r3
FW version:	3.125.7 UWB TX off
Serial number:	1949 0124
Connected Interfaces:	--
Power Supply:	12 V DC
Comments:	EUT standing

Full Spectrum



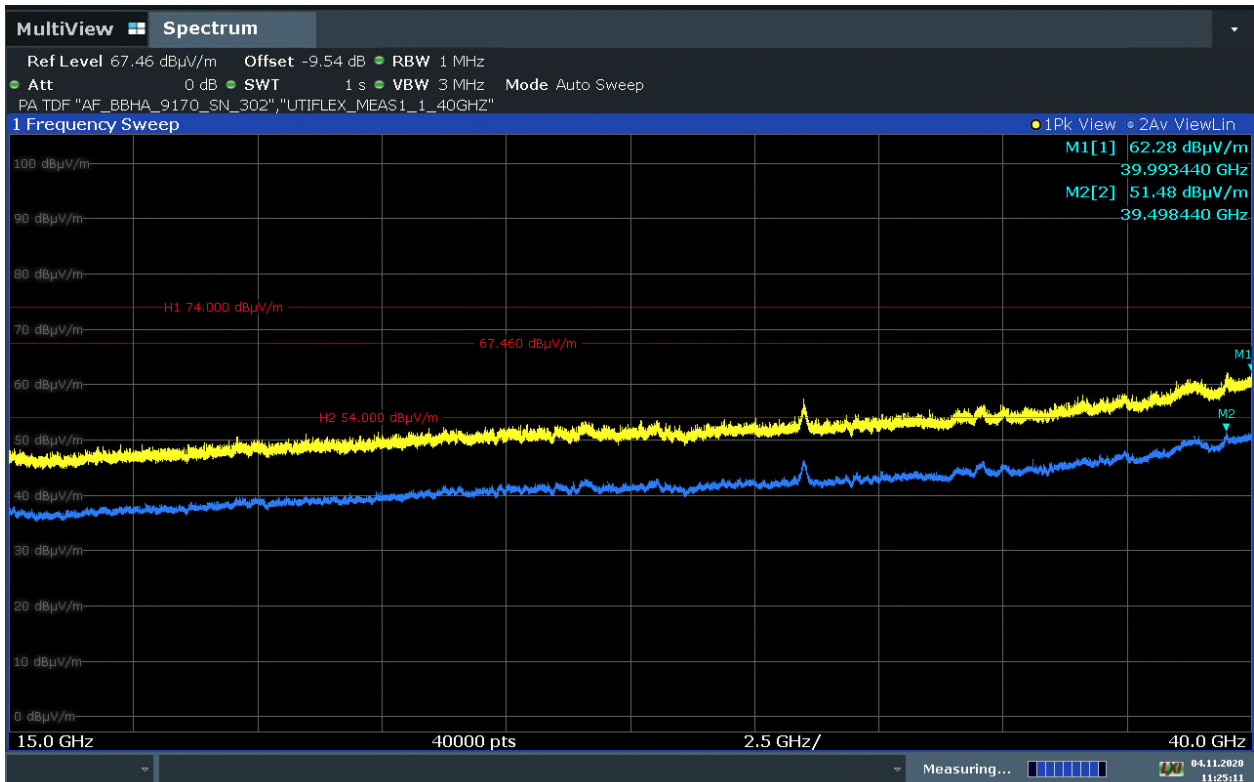
4.02

Common Information

Test Description:	Radiated Field Strength Emission
Test Site Location:	CETECOM GmbH Essen
Test Site:	Fully Anechoic Chamber (FAC1) - EMC32 V10.50.0
Test Standard:	FCC Part 15.109, class B / ICES-003, Issue 6
Operating Mode:	All Radios OFF / Sensors ON: Accelerometer + Gyroscope + Magnetometer + Barometer
Equipment Class:	Class B
Environmental Conditions::	Humidity : 40% rH; Temperature: 20 °C
Operator:	HLA
EUT Setup:	1
Verdict:	Passed

EUT Information

PMT number:	20-1-00171S08_C01
Manufacturer:	SICK AG
Product:	UWB Tag
Model:	LOCU111-0020
HW version:	v1r3
FW version:	3.125.7 UWB TX off
Serial number:	1949 0124
Power Supply:	12 V DC
Comments:	EUT standing



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End Of Annex 1