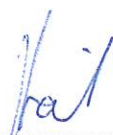
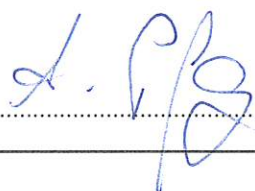


EMC TEST REPORT	
Title 47 CFR Part 15B, ISED ICES-003 Issue 7	
Report Reference No	G0M-2111-1157-EF0115B-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    A2LA - Registration number: 1983.01 (ISED) ISED wireless device testing laboratory: CN 3470A DAKKS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	BVK TEKNOLOJI ANONIM SIRKETI
Address	Resitpasa Mah., Katar Cad. ITU Teknokent ARI-6 No:2/49/103 Sariyer 34467 Istanbul TURKEY
Test Specification Standard(s)	Title 47 CFR Part 15 Subpart B ISED ICES-Gen Issue 1 ; Amendment 1 (February 2021) ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	OTCaccess MiniSmart Bluetooth Keypad Indoor
Model(s)	2KY-303C
Additional Model(s)	None
Brand Name(s)	None
Hardware Version(s)	v3.1
Software Version(s)	20211002
FCC-ID	2A4FC2303
IC	-
Test Result	PASSED

Possible test case verdicts:		
required by standard but not tested	N/T	
not required by standard	N/R	
required by standard but not appl. to test object	N/A	
test object does meet the requirement	P(PASS)	
test object does not meet the requirement	F(FAIL)	
Testing:		
Date of receipt of test item	2022-02-08	
Report:		
Compiled by	Matthias Handrik	
Tested by (+ signature) (Responsible for Test)	Matthias Handrik	
Approved by (+ signature) (Test Lab Engineer)	Andreas Pflug	
Date of Issue	2022-05-03	
Total number of pages	38	
General Remarks:		
The test results presented in this report relate only to the object tested. The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
Additional Comments:		
Additional variants have been declared by the manufacturer. The listed models were not tested, evaluated or assessed in no way.		
Additional Model	Product Type Description	OTCaccess MiniSmart Bluetooth Keypad outdoor version
	Model name	2KY-303D
	Brand Name (optional)	-
	Hardware Version	v3.1
	Software Version	20211002

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
T _{NOM}	Nominal operating temperature
V _{NOM}	Nominal supply voltage

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2022-05-03	Initial Release	-

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2.2	Test Conditions and Results - Conducted emissions acc. to ANSI C63.4.....	30
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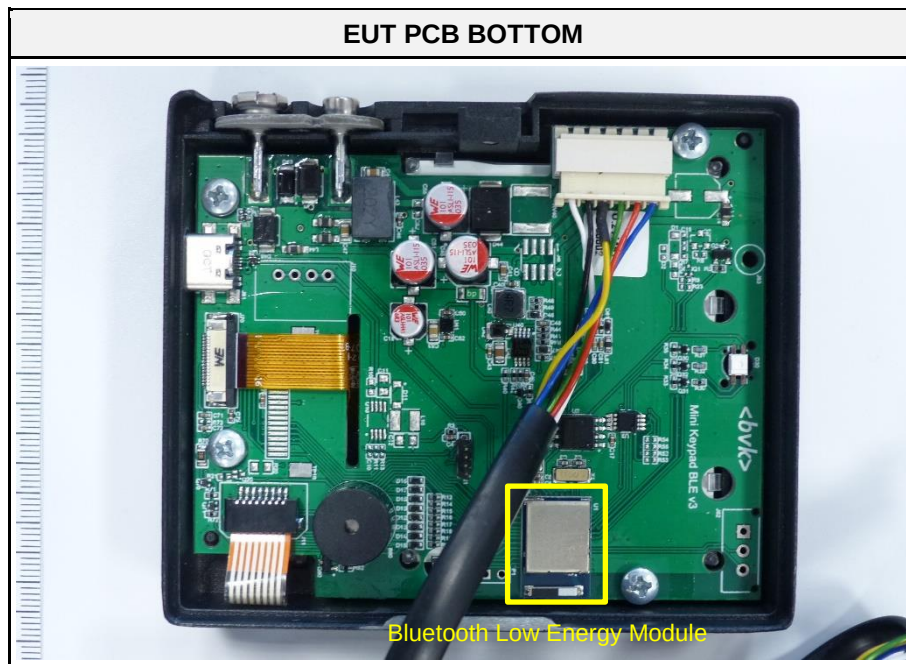
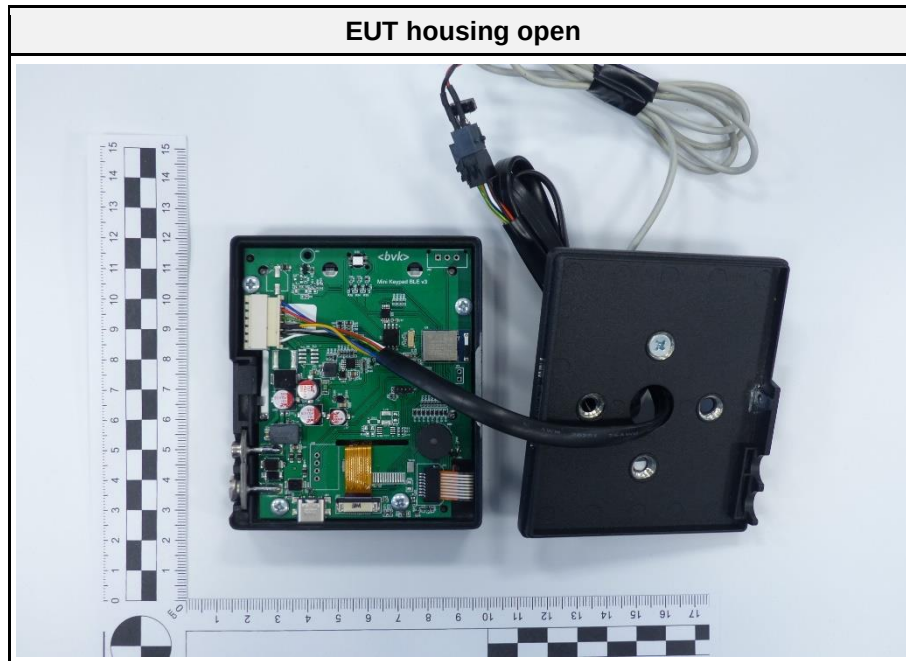
1 Equipment (Test Item) Under Test

Description	OTCaccess MiniSmart Bluetooth Keypad Indoor	
Intended use	EUT is a keypad with Bluetooth Low Energy functionality. The EUT had a Graphic 128x64 mono display with white backlight. EUT is a part of a system which support OTCaccess, banking, Online Request.	
Model	2KY-303C	
Additional Model(s)	None	
Brand Name(s)	None	
Serial Number(s)	"Prototype"	
Sample ID	38308	
Hardware Version(s)	v3.1	
Software Version(s)	20211002	
EUT Dimensions [cm]	7.88 x 9.42 x 2.2	
FCC-ID	2A4FC2303	
IC	-	
Contains FCC-ID	-	
Contains IC	-	
Class	Class B	
Equipment type	Table top	
Highest internal frequency [MHz]	64MHz for clock, 2400MHz for Bluetooth	
Protective Earth	Yes	
Radio Module	Type	Bluetooth Low Energy Module
	Model	MDBT50Q-1MV2
	Manufacturer	Ratrac
	FCC-ID	SH6MDBT50Q
	IC	8017A-MDBT50Q
Supply Voltage	V _{NOM}	12 VDC
	V _{NOM}	9V DC (Alkaline battery, not tested)
AC/DC-Adaptor	None	
Manufacturer	BVK TEKNOLOJI ANONIM SIRKETI ISBI SUBE ISBI PLAZA NO:1/310 BAKIRKOY BAKIRKOY Istanbul TURKEY	

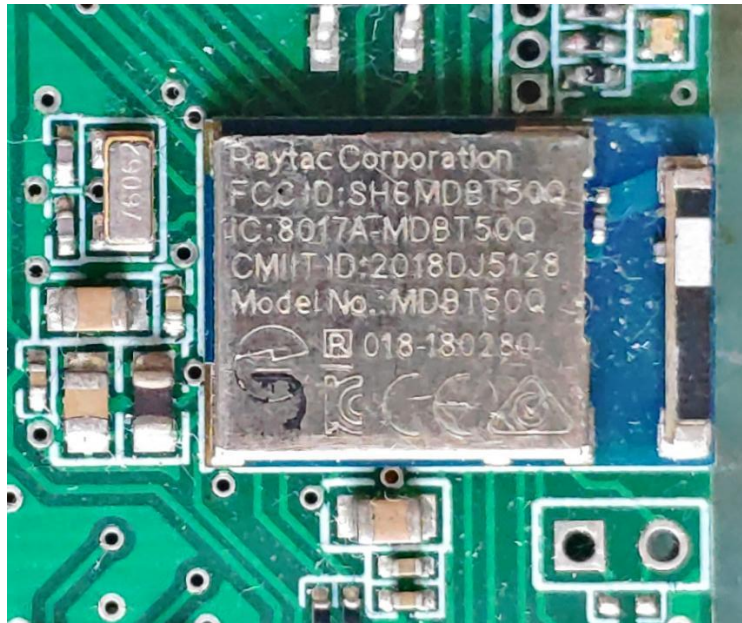
1.1 Equipment Ports

Name	Type	Attributes	Comment
USB	DC / IO	Count: 1 Cable length [m]: 1 Direction: IO Service only: Yes Shielded: Yes	For power backup
Power / Data	DC / IO	Count: 1 Cable max. length [m]: 1 Direction: IO Service only: No Shielded: No	12V DC + 2-way communication with controller
Power	DC	Count: 1 Cable max. length [m]: 1 Direction: IN Service only: No Shielded: No	9V battery, snip for power backup
Protective Earth	DC	Count: 1 Cable length [m]: unspecified Direction: IN Service only: No Shielded: No	1m was used for the measurement
Description:			
AC	AC mains power input/output port		
DC	DC power input/output port		
BAT	DC power input port connected to external battery		
IO	Input/Output port		
TP	Telecommunication port		
NE	Non-electrical port		

1.2 Equipment Photos - Internal



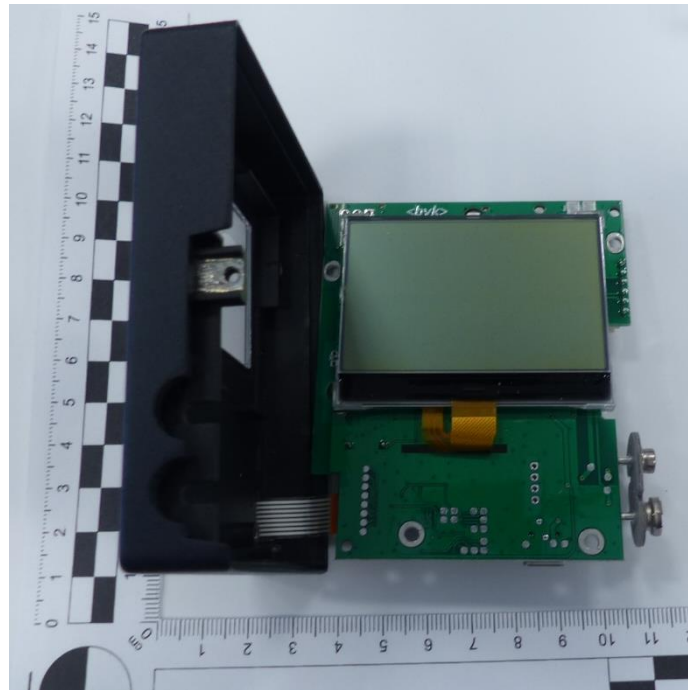
Bluetooth Low Energy Module with shield



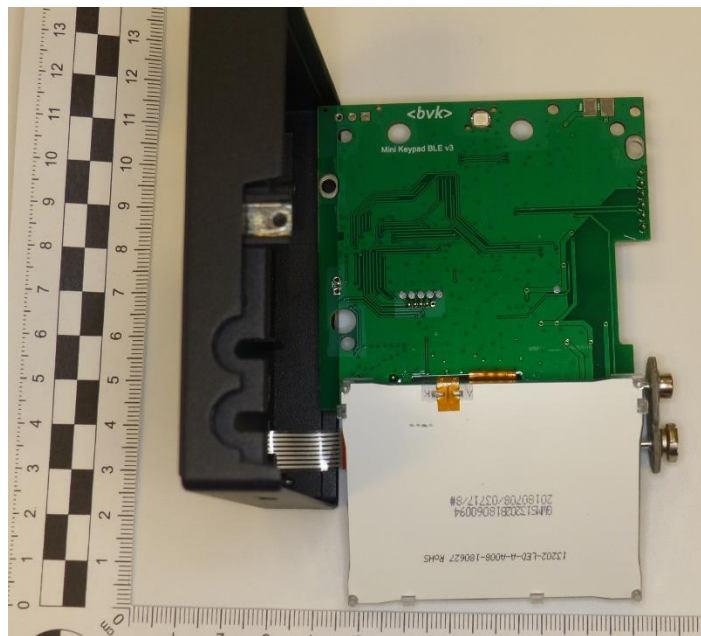
Bluetooth Low Energy Module without shield



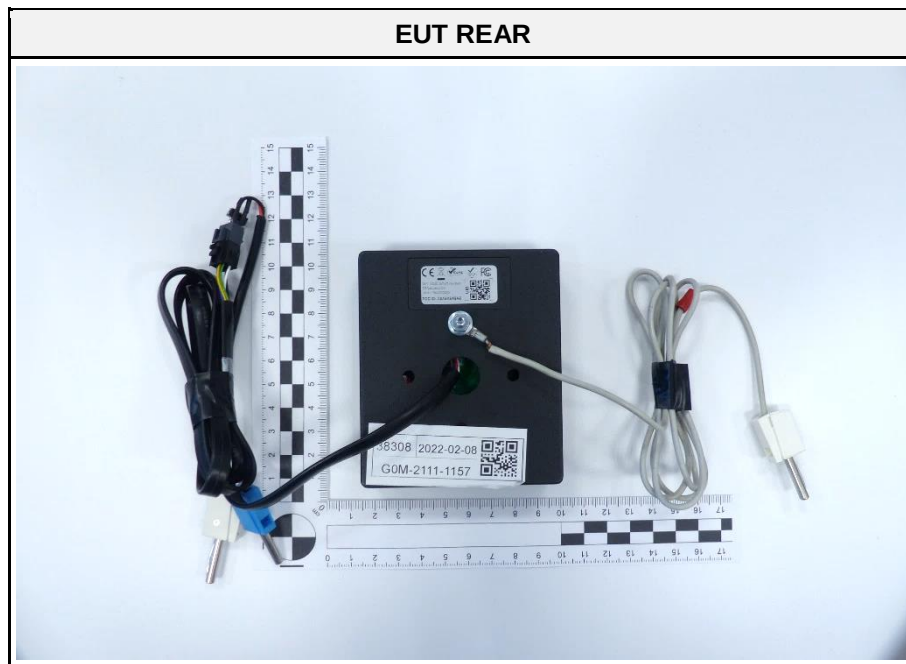
EUT PCB TOP with display



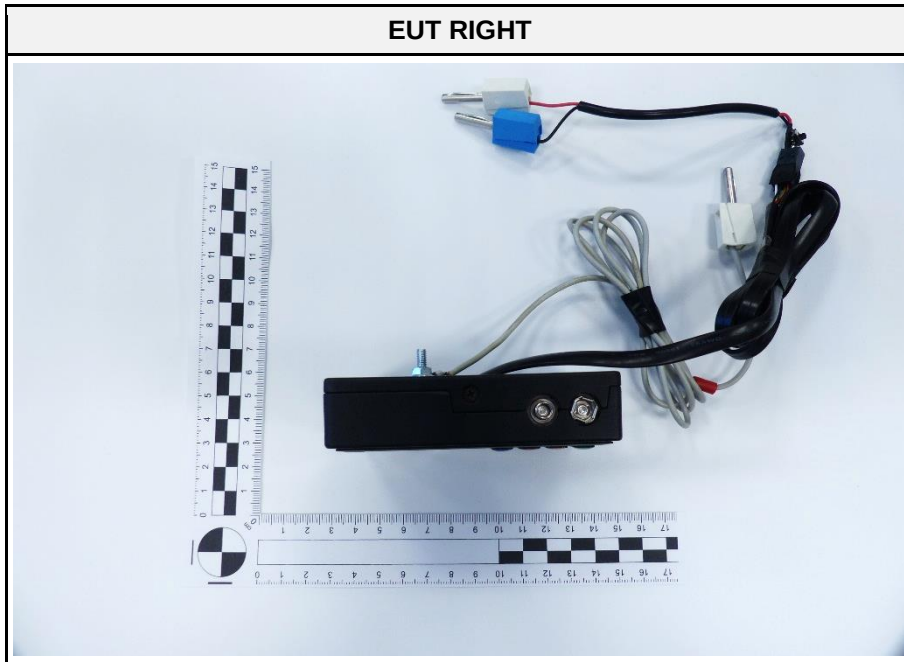
EUT PCB TOP with display backside



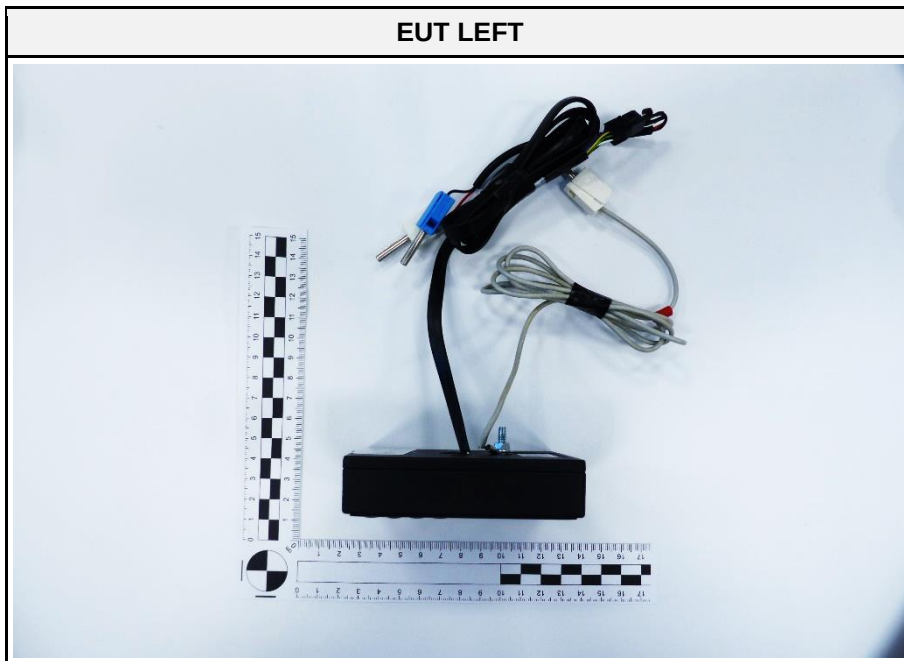
1.3 Equipment Photos - External



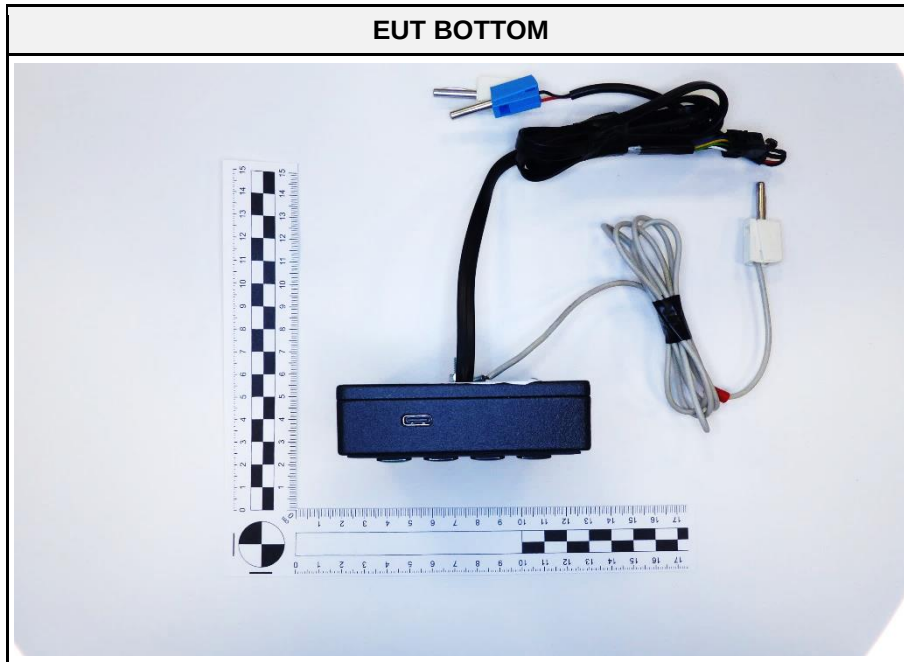
EUT RIGHT



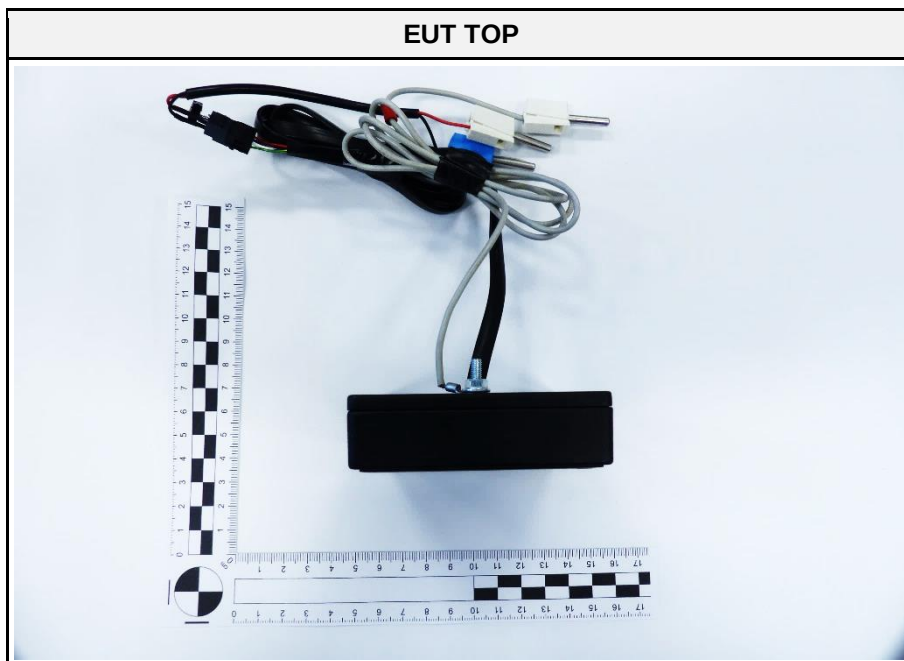
EUT LEFT

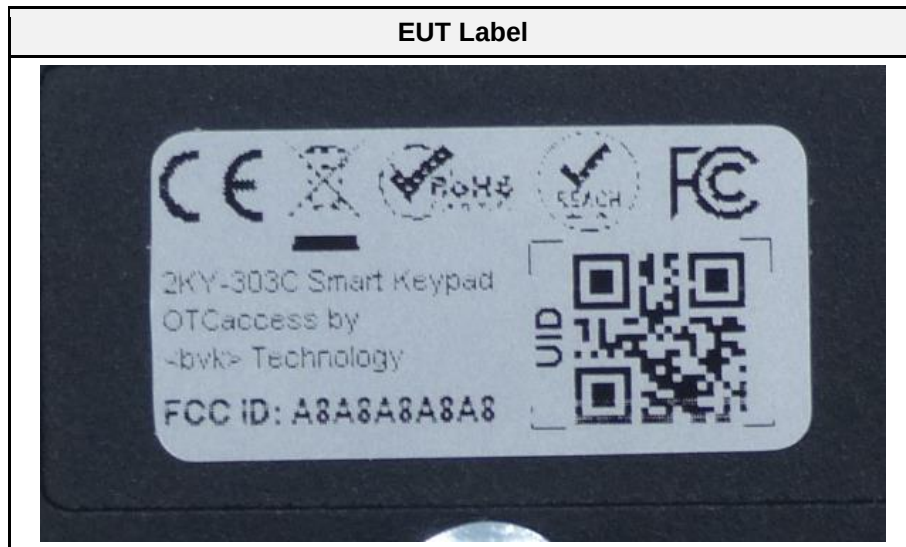


EUT BOTTOM



EUT TOP





1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Spectrum Analyzer	R&S	FPL1007	EF01683
AE	AC/DC adaptor	sonero	MW3K10GS/X-PS020	customer
Description: Spectrum Analyzer for visual check of Bluetooth Low Energy advertisement carriers.				
AE	Auxiliary Equipment			
SIM	Simulator			
MON	Monitoring Equipment			
CBL	Connecting Cable			
Comment:				

1.5 Operational Modes

Mode #	Description
1	Working Mode: It is a mode which simulates the working scenario. EUT sends data using its serial port and gets the data back thanks to special connector which makes loopback and displays returning data. The firmware which loaded to the keypad is a test firmware and sends data messages like counting numbers with 1second interval. It also displays the coming message to the display to make the display working/running. Bluetooth is on and send advertisement packets in 400ms interval.
Comment:	

1.6 EUT Configuration

Configuration #	Description
1	EUT powered via 12V DC with laboratory power supply. EUT assembled with 1m power/data cable and 1m Protection earth cable only. Data wires on the cable (TX&RX) can short-circuited with a switch. Switch is state on "short-circuit" According customer requirement, additional USB-wire and 9V Alkaline battery was not connected during test. Measurement was performed with Power/data wire and protection earth wire only.
2	EUT powered via 120V AC / 60Hz (AC/DC adaptor). EUT assembled with 1m power/data cable and 1m Protection earth cable only. Data wires on the cable (TX&RX) can short-circuited with a switch. Switch is state on "short-circuit" According customer requirement, additional USB-wire and 9V Alkaline battery was not connected during test. Measurement was performed with Power/data wire and protection earth wire only.
Comment:	

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyser. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyser (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading + AF	= Net Reading	:	Net reading - FCC limit	= Margin
+21.5 dBµV + 26 dB/m	= 47.5 dBµV/m	:	47.5 dBµV/m - 57.0 dBµV/m	= -9.5 dB

2 Result Summary

Title 47 CFR Part 15B, ISED ICES-003 Issue 7				
Reference	Requirement	Reference Method	Result	Remarks
Emission				
FCC 15.109 ICES-003, 3.2.2	Radiated emissions	ANSI C63.4:2014 +A1:2017	PASS	-
FCC 15.107 ICES-003, 3.2.1	AC power line conducted emissions	ANSI C63.4:2014 +A1:2017	PASS	-
Comment:				

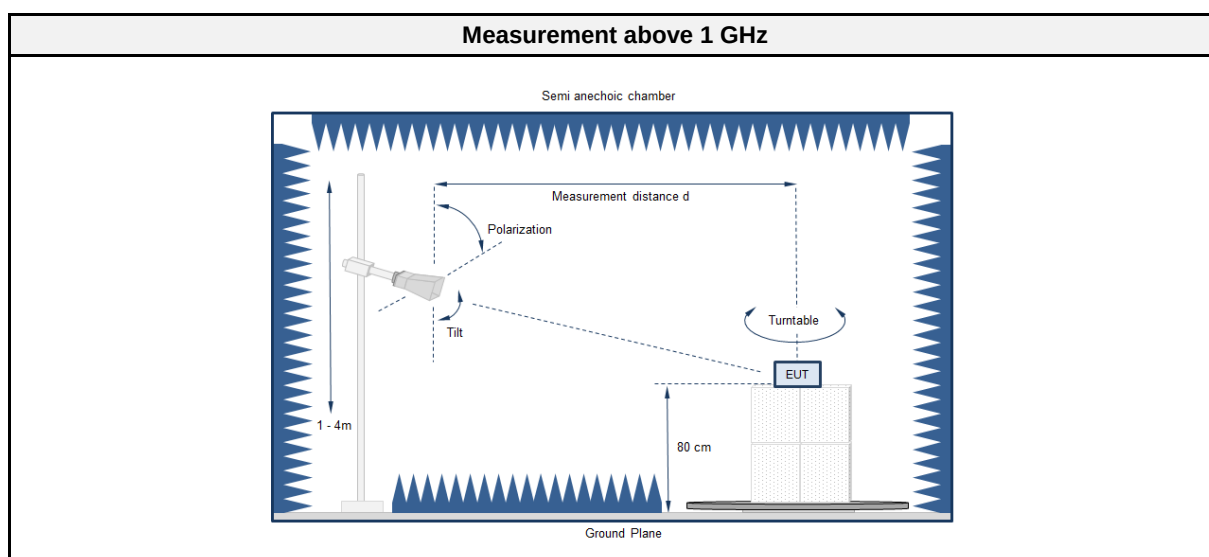
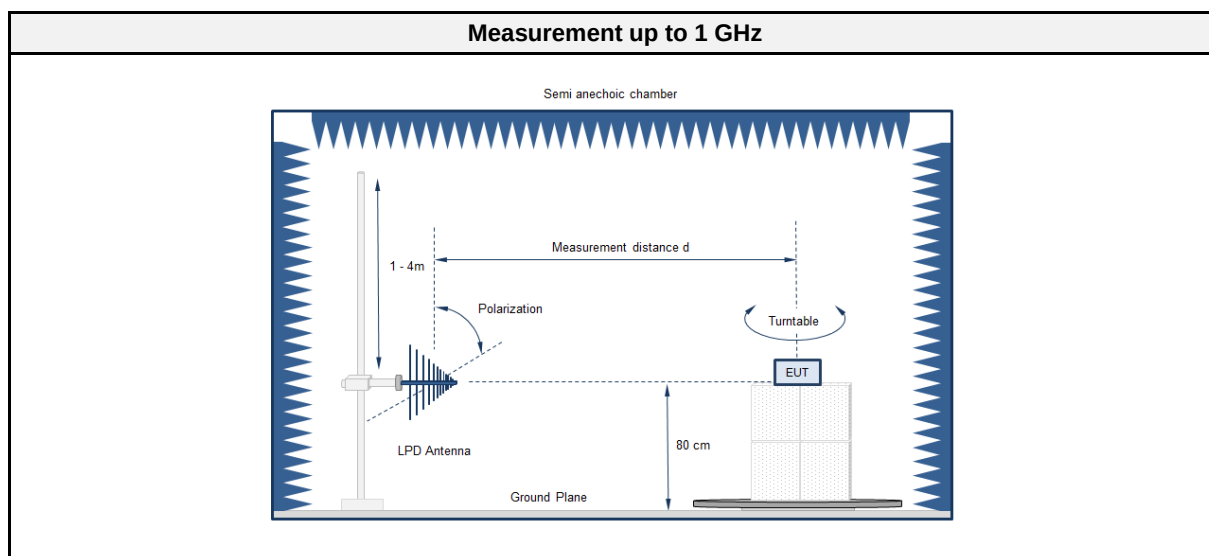
Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

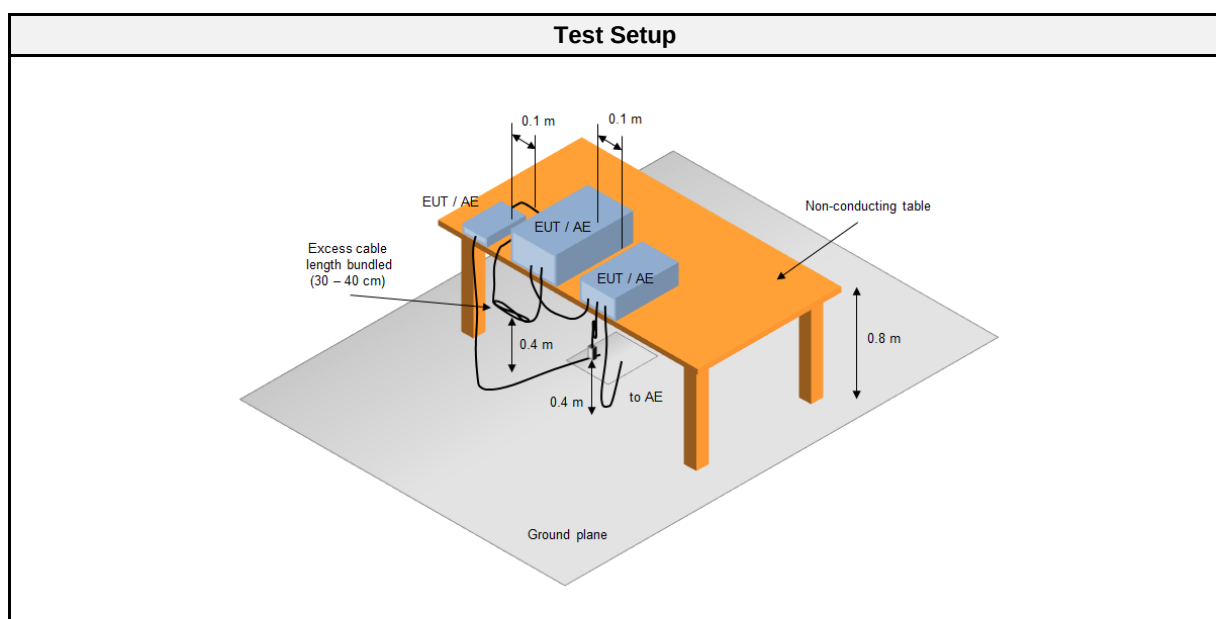
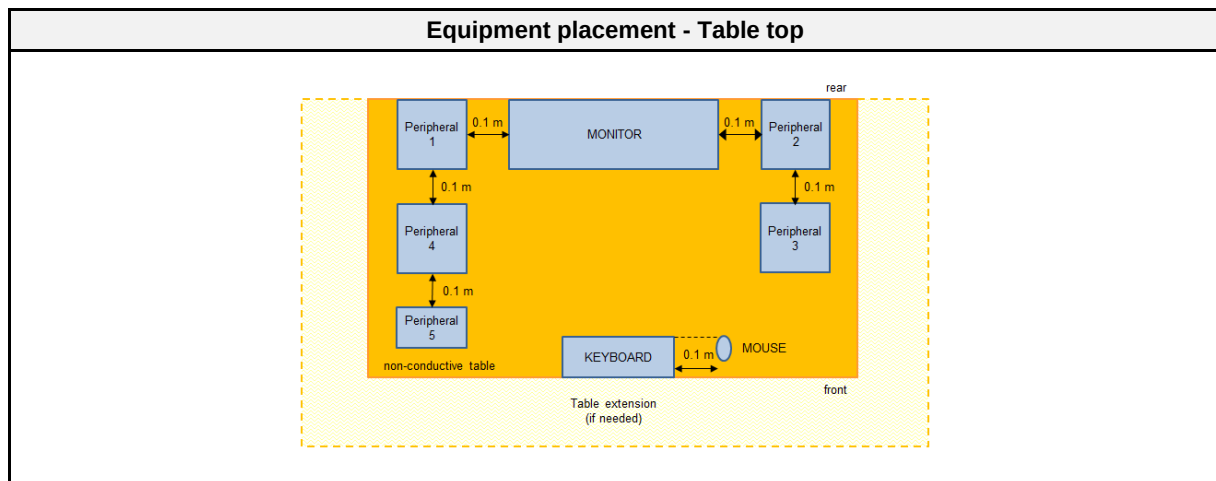
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

Test Information	
Reference	FCC 15.109, ICES-003, 3.2.2
Reference method	ANSI C63.4:2014+A1:2017 Section 8
Equipment class	Class B
Equipment type	Table top
Highest internal frequency [MHz]	2400
Measurement range	30 MHz to 13000 MHz
Temperature [°C]	19 ±3
Humidity [%]	28 ±3
Operator	Matthias Handrik
Date	2022-04-11

2.1.2 Setup





2.1.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic chamber (NSA)	Frankonia	AC1	EF00062	2021-02	2024-02
Anechoic chamber (S-VSWR)	Frankonia	AC 1	EF01011	2019-06	2022-06
Programmable AC Source	Chroma ATE Inc.	61604	EF01068	2021-07	2022-07
EMI Test Receiver	Keysight	N9038A-526/WXP	EF01070	2021-07	2022-07
Biconical Antenna	R&S	HK 116	EF00030	2021-05	2024-05
LPD Antenna	R&S	HL 223	EF00187	2019-05	2022-05
Horn Antenna	Schwarzbeck	BBHA9120D	EF00018	2019-10	2022-10
Temperature probes	Testo industrial services GmbH	HZ887	EF01482	2021-07	2022-07
Digital Multimeter	R&S	HMC8012	EF01467	2021-08	2022-08

2.1.4 Procedure

Exploratory measurement	
1.	The EUT was placed on a non-conductive table at a height of 0.8m.
2.	The EUT and support equipment, if needed, were set up to simulate typical usage.
3.	Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage.
4.	The antenna was placed at a distance of 3 or 10 m.
5.	The received signal was monitored at the measurement receiver.
6.	This procedure has to be performed in both antenna polarizations, horizontal and vertical.
7.	The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 2.1.2

Final measurement	
1.	The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver.
2.	A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast.
3.	The EUT and cable arrangement were based on the exploratory measurement results.
4.	Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.
5.	The test data of the worst-case conditions were recorded and shown on the next pages.

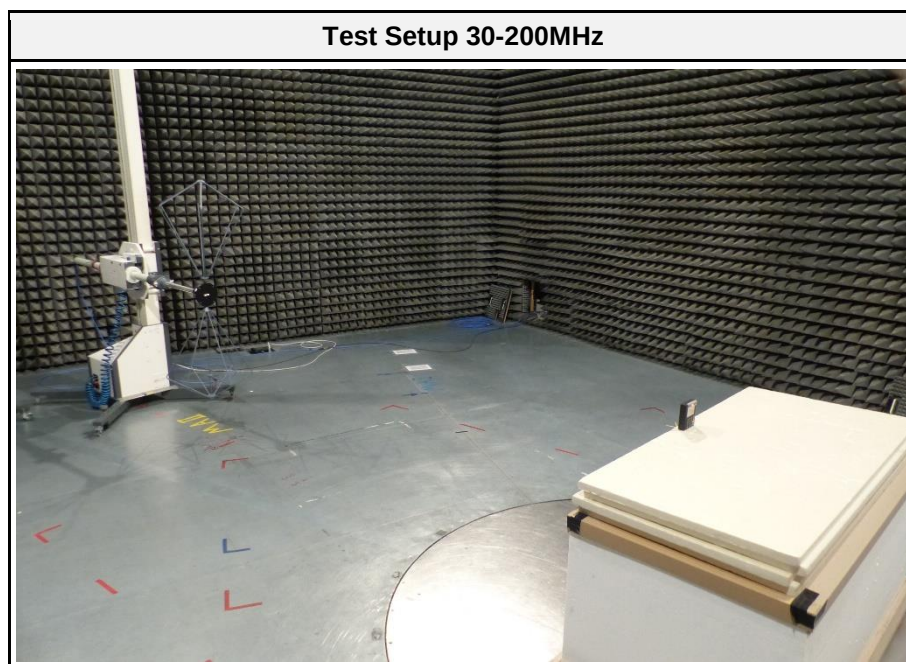
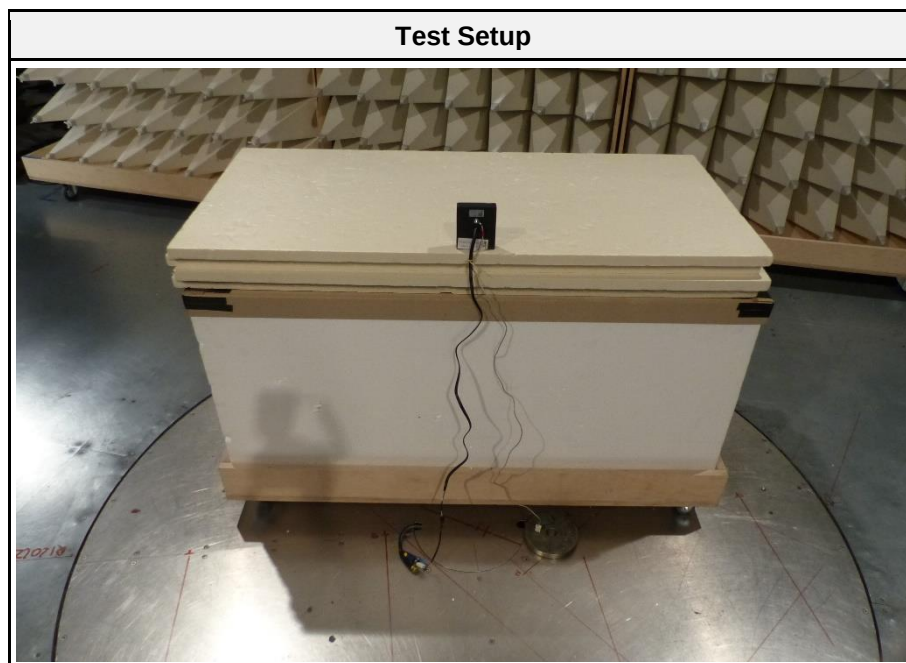
2.1.5 Limits

Class B @ 3 m		
Frequency [MHz]	Detector	Limit [dBμV/m]
30 - 88	Quasi-peak	40
88 - 216	Quasi-peak	43.5
216 - 960	Quasi-peak	46
960 - 1000	Quasi-peak	54
> 1000	Peak	74
	Average	54

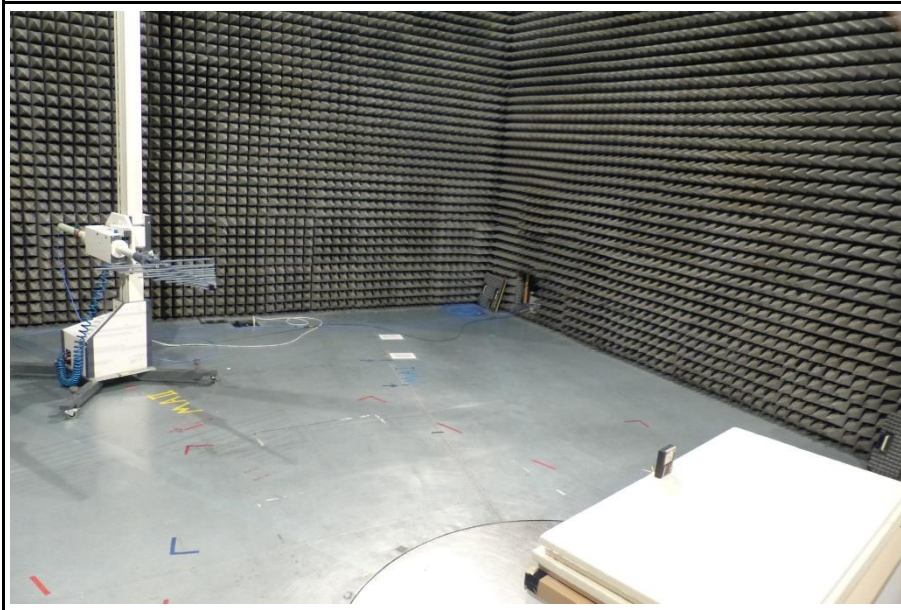
2.1.6 Results

Test Results			
Operational mode	EUT Configuration	Verdict	Remark
1	1	PASS	-

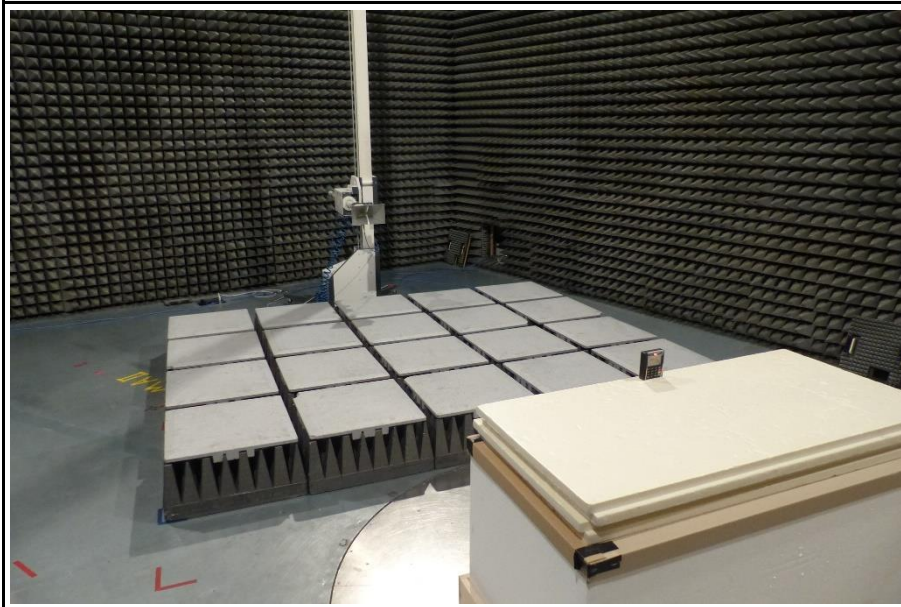
2.1.7 Setup Photos



Test Setup 200-1000MHz



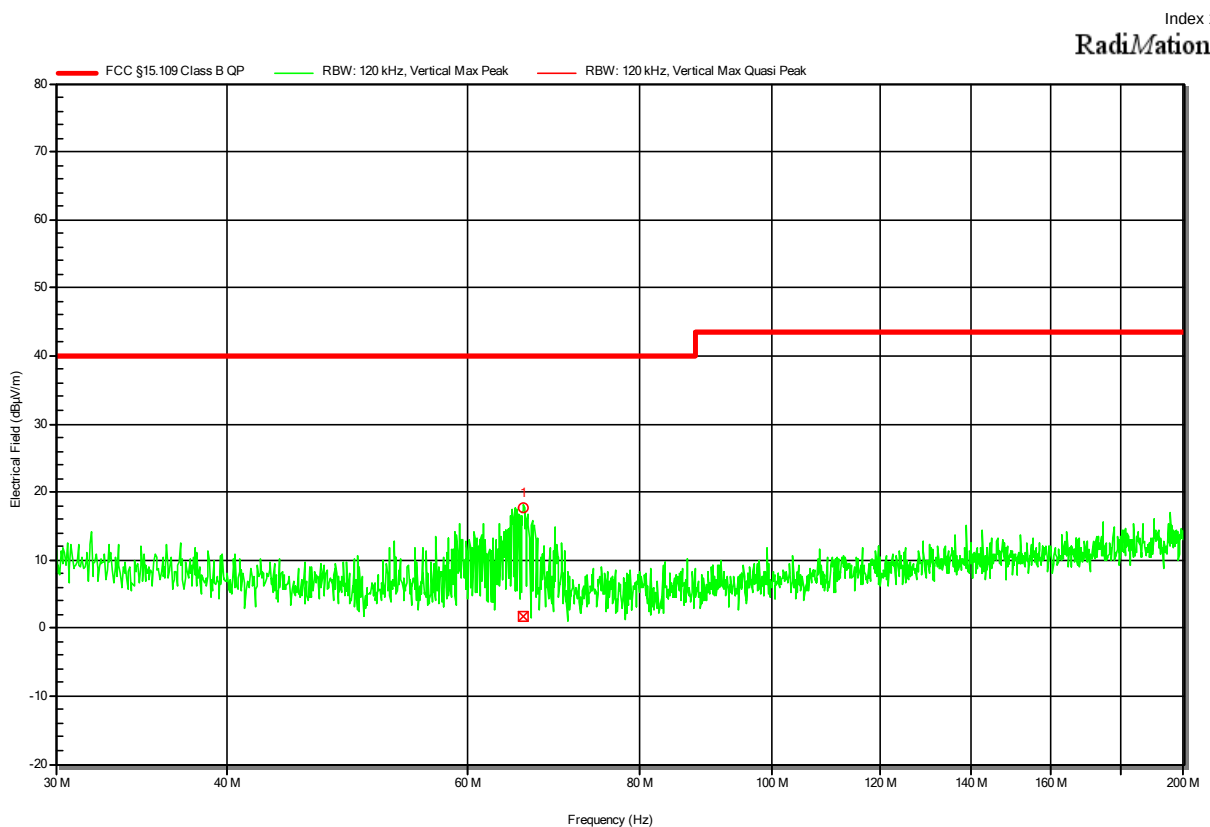
Test Setup 1000-13000MHz



2.1.8 Records

Radiated emissions according to FCC part 15B

Project Number: G0M-2111-1157
 Applicant: BVK TEKNOLOJİ ANONİM ŞİRKETİ
 Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
 Model: 2KY-303C
 Test Sample ID: 38308
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-04-11
 Operating Conditions: ambient temperature: 19 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1:



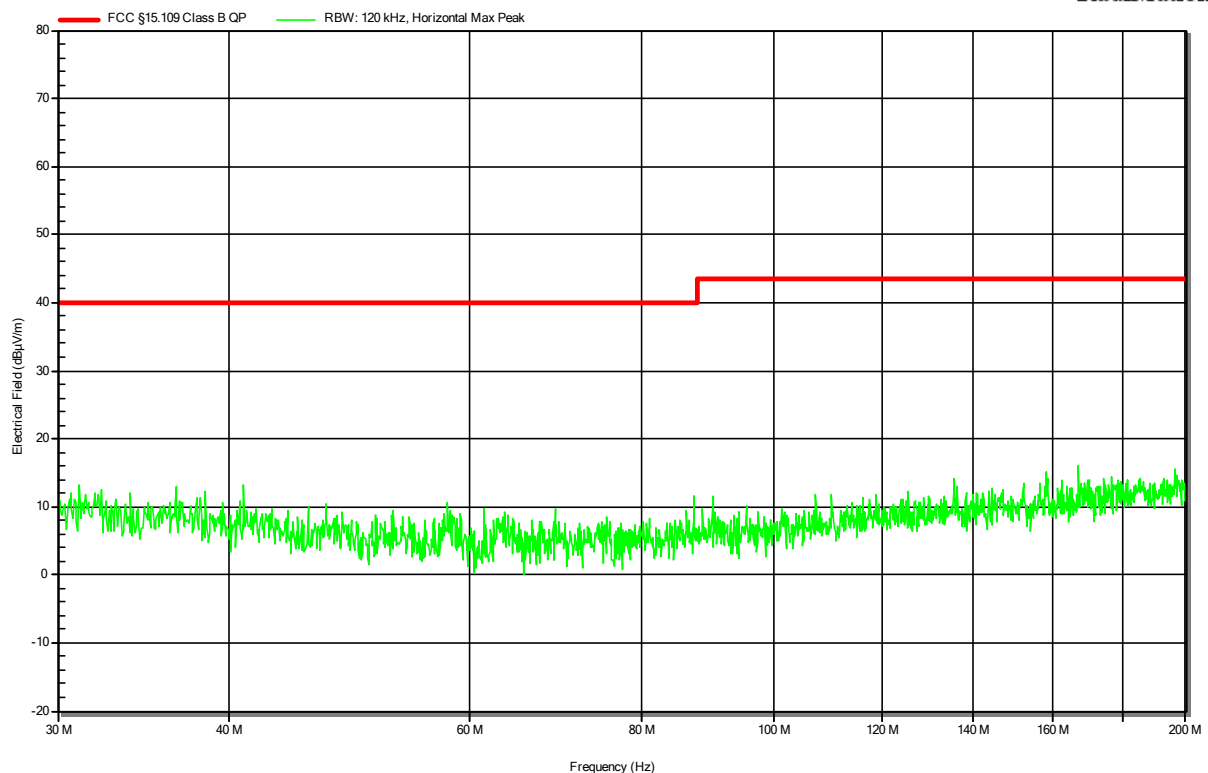
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
1	65.895 MHz	1.73 dBµV/m	40 dBµV/m	-38.27 dB	Pass	180 degrees	1 m

Radiated emissions according to FCC part 15B

Project Number: G0M-2111-1157
 Applicant: BVK TEKNOLOJI ANONIM SIRKETI
 Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
 Model: 2KY-303C
 Test Sample ID: 38308
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-04-11
 Operating Conditions: ambient temperature: 19 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1:

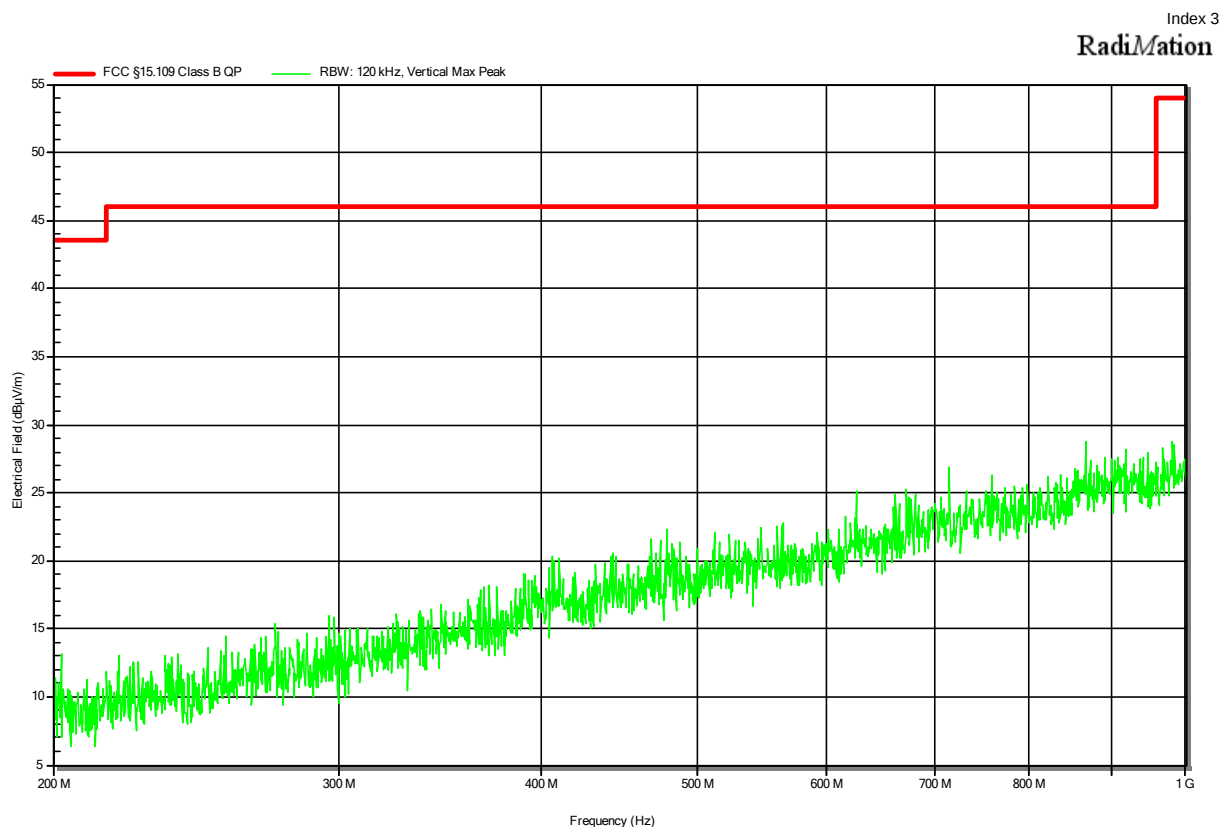
Index 2

RadiMation



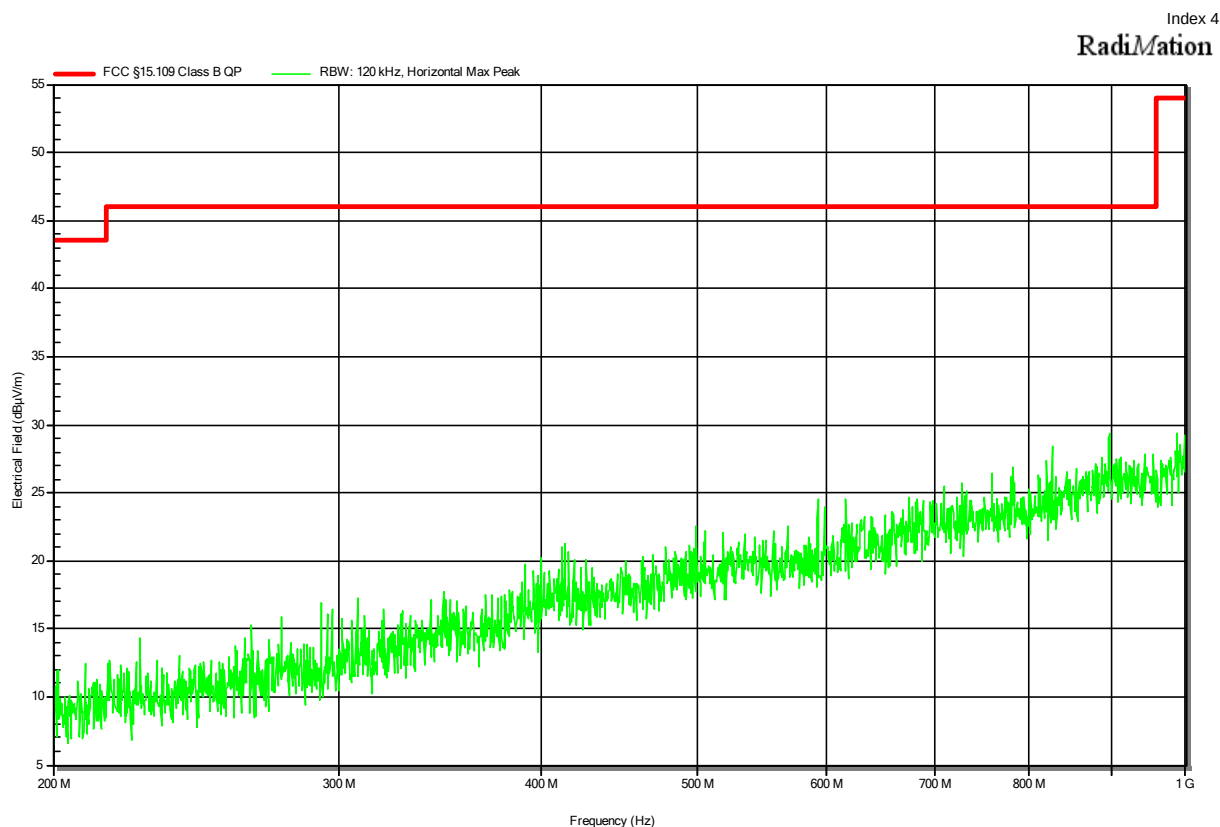
Radiated emissions according to FCC part 15B

Project Number: G0M-2111-1157
Applicant: BVK TEKNOLOJI ANONIM SIRKETI
Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
Model: 2KY-303C
Test Sample ID: 38308
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Date: 2022-04-11
Operating Conditions: ambient temperature: 19 °Celsius
power input: 12V DC
Antenna: Rohde & Schwarz HL 223, Vertical
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1
Note 1:



Radiated emissions according to FCC part 15B

Project Number: G0M-2111-1157
Applicant: BVK TEKNOLOJI ANONIM SIRKETI
Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
Model: 2KY-303C
Test Sample ID: 38308
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Date: 2022-04-11
Operating Conditions: ambient temperature: 19 °Celsius
power input: 12V DC
Antenna: Rohde & Schwarz HL 223, Horizontal
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1
Note 1:

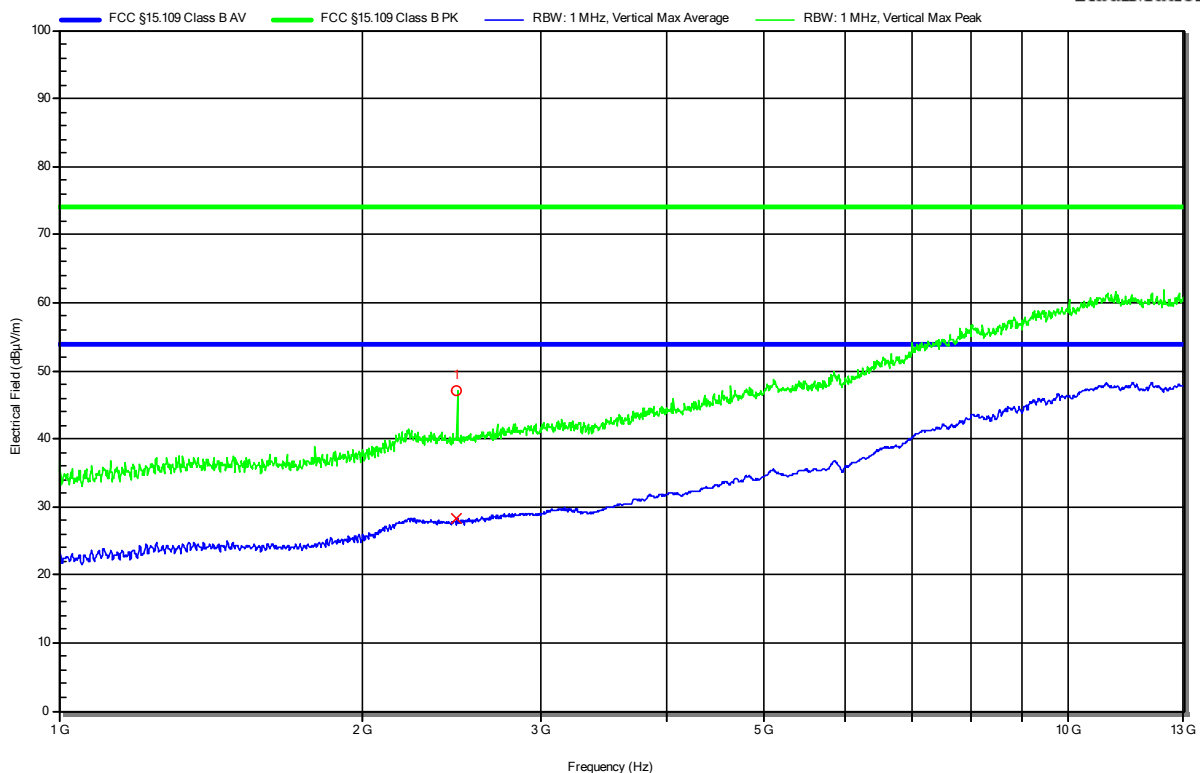


Radiated emissions according to FCC part 15B

Project Number: G0M-2111-1157
 Applicant: BVK TEKNOLOJI ANONIM SIRKETI
 Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
 Model: 2KY-303C
 Test Sample ID: 38308
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-04-11
 Operating Conditions: ambient temperature: 19 °Celsius
 power input: 12V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1:

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RadiMation



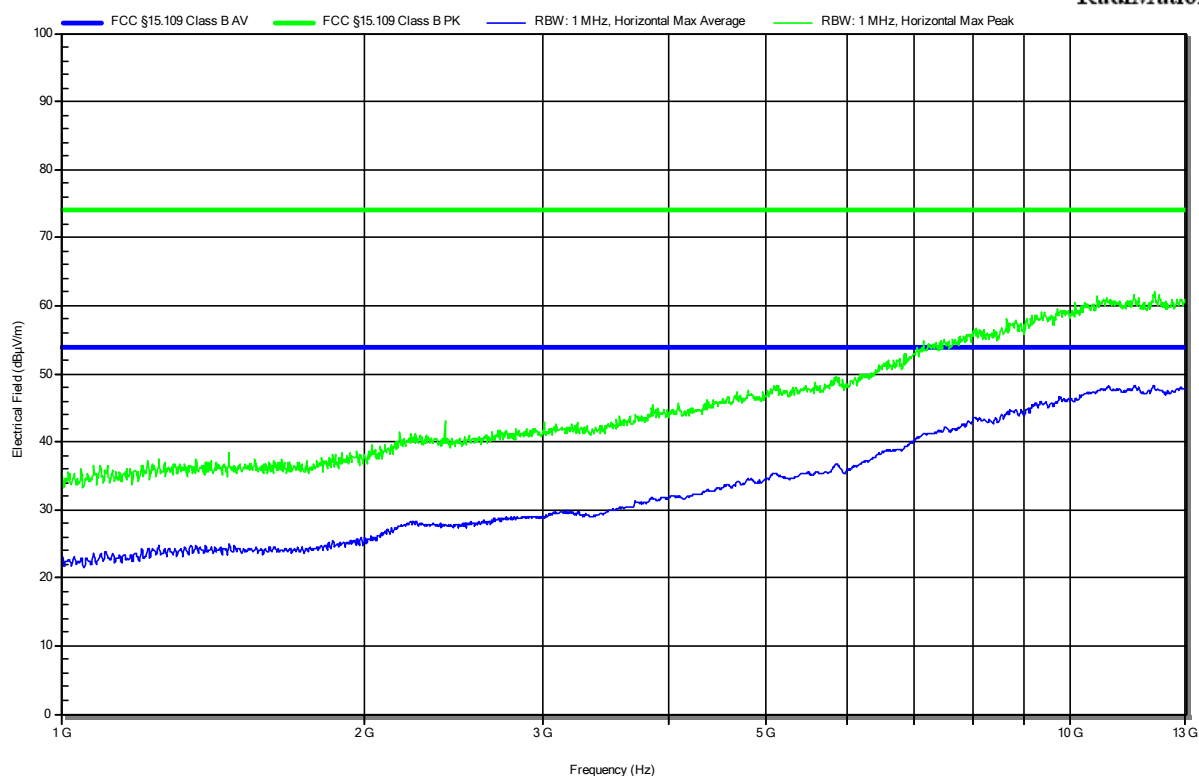
Peak Number	Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Angle	Height
1	2.479 GHz	Bluetooth Low Energy advertisement carrier					

Radiated emissions according to FCC part 15B

Project Number: G0M-2111-1157
Applicant: BVK TEKNOLOJI ANONIM SIRKETI
Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
Model: 2KY-303C
Test Sample ID: 38308
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Date: 2022-04-11
Operating Conditions: ambient temperature: 19 °Celsius
power input: 12V DC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1
Note 1:

Index 6

RadiMation

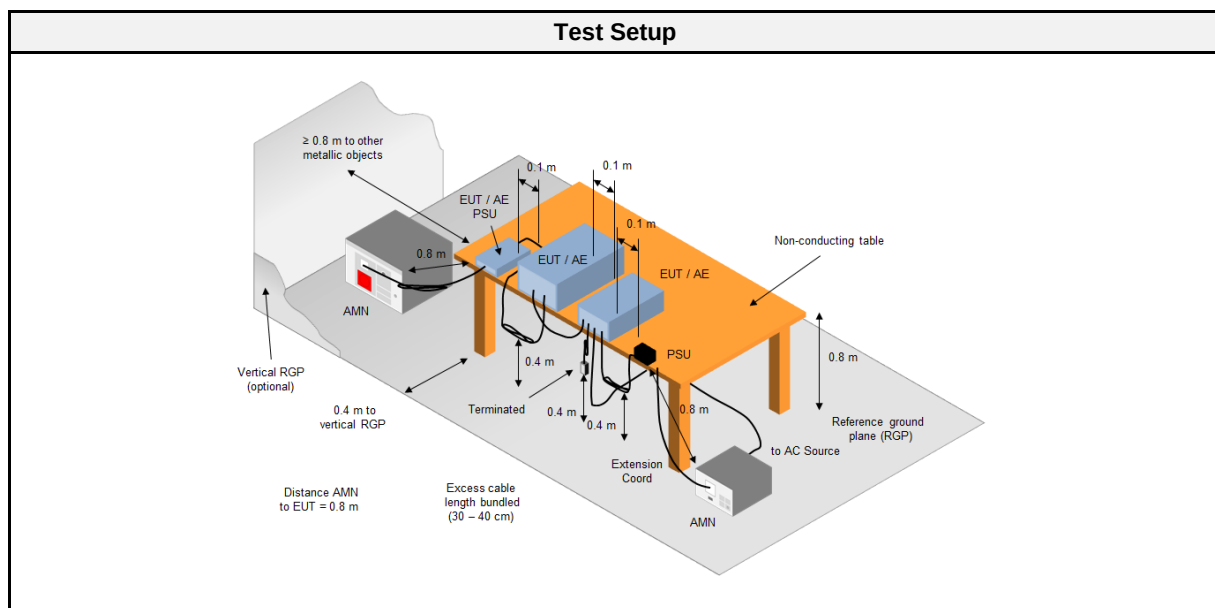
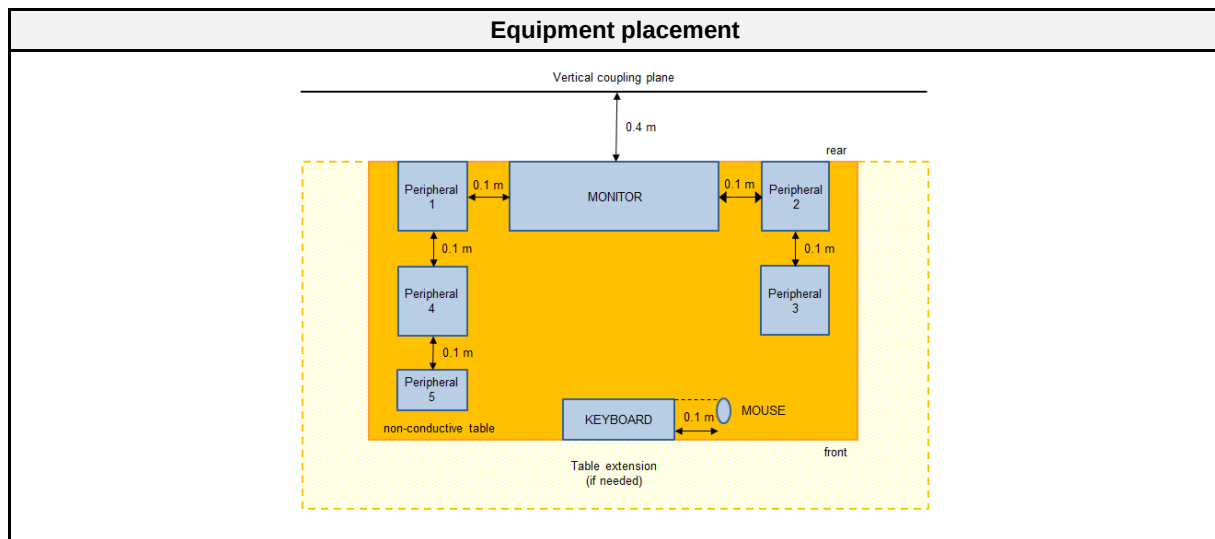


2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

2.2.1 Information

Test Information	
Reference	FCC 15.107, ICES-003, 3.2.1
Reference method	ANSI C63.4:2014+A1:2017 Section 12
Measurement range	150 kHz to 30 MHz
Equipment class	Class B
Equipment type	Table top
Temperature [°C]	21 ±3
Humidity [%]	30 ±3
Operator	Matthias Handrik
Date	2022-04-11

2.2.2 Setup



2.2.3 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	Radimation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	Schwarzbeck	NSLK 8127	EF01592	2021-07	2022-07
Pulse Limiter	R&S	ESH3-Z2	EF01063	2021-07	2022-07
EMI Test Receiver	R&S	ESR 7	EF00943	2021-08	2022-08
Temperature probes	Testo industrial services GmbH	HZ887	EF01482	2021-07	2022-07
Digital Multimeter	R&S	HMC8012	EF01467	2021-08	2022-08

2.2.4 Procedure

Exploratory measurement	
1.	The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)
2.	The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
3.	The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
4.	The LISN measurement port was connected to a measurement receiver
5.	I/O cables were bundled not longer than 0.4 m
6.	Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor
7.	To maximize the emissions the cable positions were manipulated
8.	The worst configuration of EUT and cables is shown on a test setup picture at item 2.2.2

Final measurement	
1.	The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1)
2.	The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
3.	The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
4.	The LISN measurement port was connected to a measurement receiver
5.	The EUT and cable arrangement were based on the exploratory measurement results
6.	The test data of the worst-case conditions were recorded and shown on the next pages

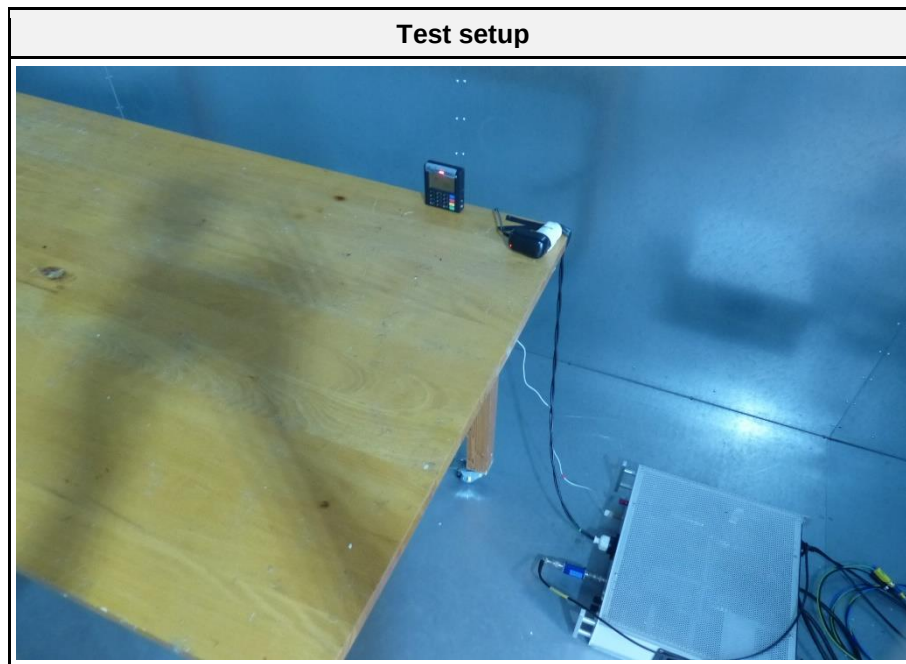
2.2.5 Limits

Class B		
Frequency [MHz]	Quasi-peak Limit [dBμV]	Average Limit [dBμV]
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50
* Decreases with the logarithm of the frequency		

2.2.6 Results

AC power line conducted emissions					
Port	Coupling	Operational mode	EUT Configuration	Verdict	Remark
Power	AMN	1	1	PASS	-

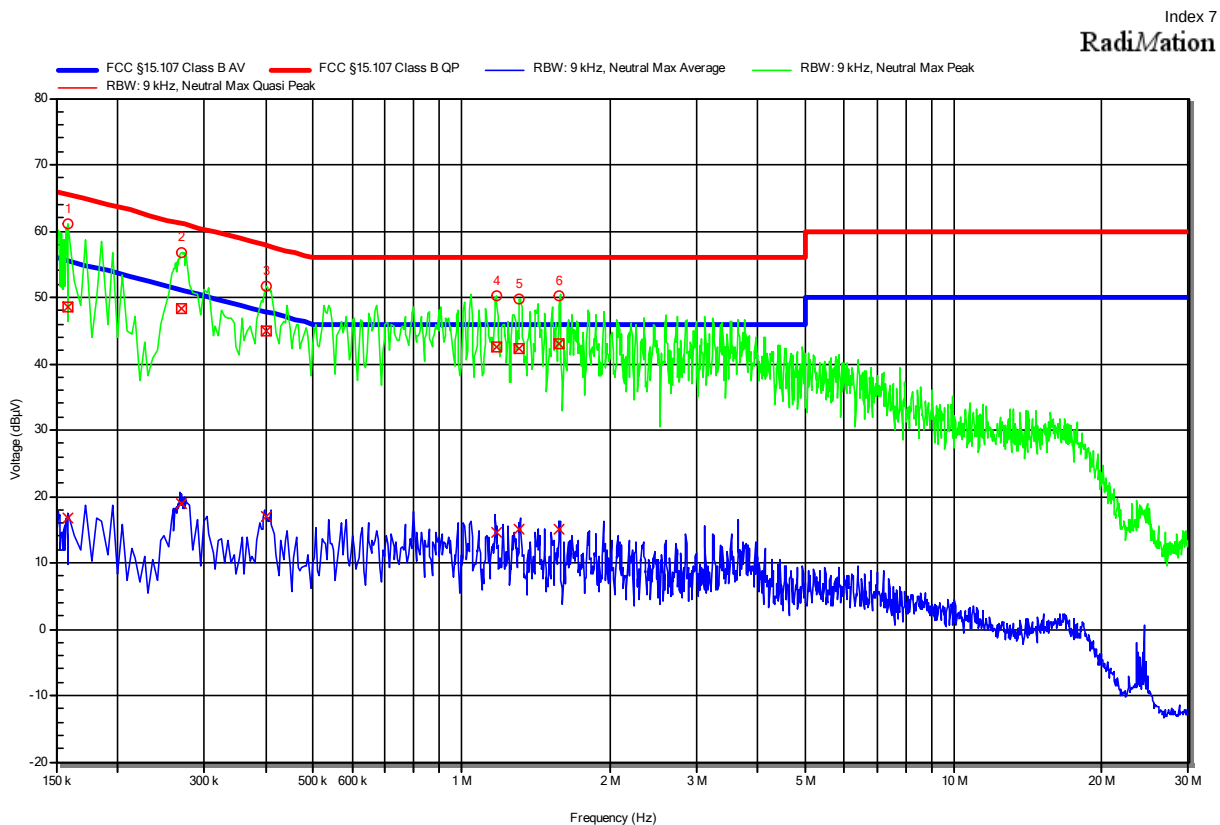
2.2.7 Setup Photos



2.2.8 Records

Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2111-1157
 Applicant: BVK TEKNOLOJİ ANONİM ŞİRKETİ
 Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
 Model: 2KY-303C
 Test Sample ID: 38308
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-04-11
 Operating Conditions: ambient temperature: 21 °Celsius
 power input: 120V AC / 60 Hz
 LISN: Schwarzbeck NSLK 8127 RC N
 Operational Mode: 1
 EUT Configuration: 2
 Applied to Port: AC-mains
 Note 1:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	159 kHz	48.62 dBμV	65.52 dBμV	-16.89 dB	Pass	Neutral
2	270.6 kHz	48.23 dBμV	61.1 dBμV	-12.86 dB	Pass	Neutral
3	401.1 kHz	45.05 dBμV	57.83 dBμV	-12.79 dB	Pass	Neutral
4	1.175 MHz	42.53 dBμV	56 dBμV	-13.47 dB	Pass	Neutral
5	1.313 MHz	42.28 dBμV	56 dBμV	-13.72 dB	Pass	Neutral
6	1.584 MHz	42.91 dBμV	56 dBμV	-13.09 dB	Pass	Neutral

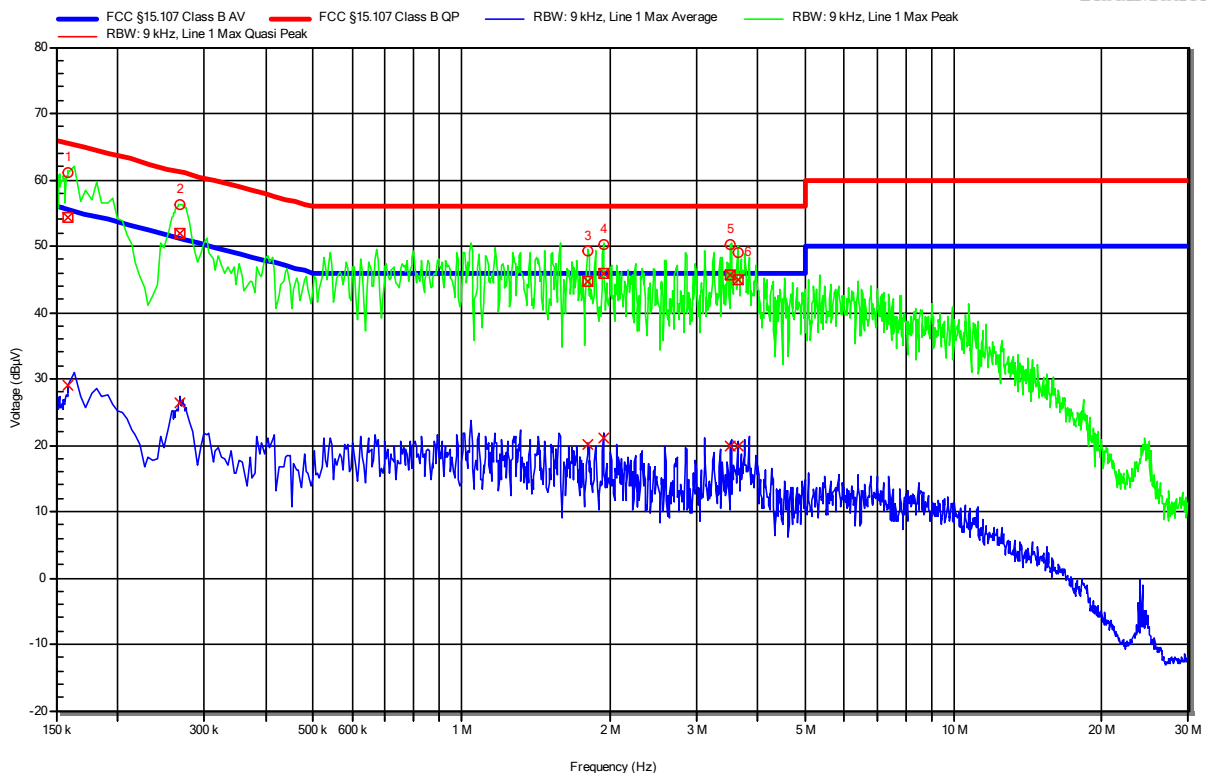
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	159 kHz	16.8 dBμV	55.52 dBμV	-38.72 dB	Pass	Neutral
2	270.6 kHz	18.91 dBμV	51.1 dBμV	-32.19 dB	Pass	Neutral
3	401.1 kHz	16.94 dBμV	47.83 dBμV	-30.89 dB	Pass	Neutral
4	1.175 MHz	14.62 dBμV	46 dBμV	-31.38 dB	Pass	Neutral
5	1.313 MHz	14.96 dBμV	46 dBμV	-31.04 dB	Pass	Neutral
6	1.584 MHz	15.15 dBμV	46 dBμV	-30.85 dB	Pass	Neutral

Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2111-1157
Applicant: BVK TEKNOLOJI ANONIM SIRKETI
Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
Model: 2KY-303C
Test Sample ID: 38308
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Date: 2022-04-11
Operating Conditions: ambient temperature: 21 °Celsius
power input: 120V AC / 60 Hz
LISN: Schwarzbeck NSLK 8127 RC L
Operational Mode: 1
EUT Configuration: 2
Applied to Port: AC-Mains
Note 1:

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Radiation



Test Report No.: G0M-2111-1157-EF0115B-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	159 kHz	54.22 dBμV	65.52 dBμV	-11.3 dB	Pass	Line 1
2	268.8 kHz	51.99 dBμV	61.15 dBμV	-9.16 dB	Pass	Line 1
3	1.805 MHz	44.8 dBμV	56 dBμV	-11.2 dB	Pass	Line 1
4	1.94 MHz	45.93 dBμV	56 dBμV	-10.07 dB	Pass	Line 1
5	3.521 MHz	45.55 dBμV	56 dBμV	-10.45 dB	Pass	Line 1
6	3.638 MHz	44.94 dBμV	56 dBμV	-11.06 dB	Pass	Line 1

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	159 kHz	28.97 dBμV	55.52 dBμV	-26.55 dB	Pass	Line 1
2	268.8 kHz	26.27 dBμV	51.15 dBμV	-24.88 dB	Pass	Line 1
3	1.805 MHz	20.04 dBμV	46 dBμV	-25.96 dB	Pass	Line 1
4	1.94 MHz	21.1 dBμV	46 dBμV	-24.9 dB	Pass	Line 1
5	3.521 MHz	19.99 dBμV	46 dBμV	-26.01 dB	Pass	Line 1
6	3.638 MHz	19.86 dBμV	46 dBμV	-26.14 dB	Pass	Line 1

3 Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2.

Test Name	Measurement Uncertainty
Conducted emissions at the mains power port	150kHz to 30MHz, 3.35dB
Radiated Emission	30MHz to 200MHz @ 3m, 5.1dB 200MHz to 1GHz @ 3m, 5.3dB >1GHz to 18GHz @3m, 5.95dB