

Test Report 21-1-0132201T06a



Number of pages:	15	Date of Report:	2022-Feb-18
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Testing company: CETECOM GmbH Applicant: SOMMER Antriebs- und Im Teelbruch 116 Funktechnik GmbH

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Test Object / Wireless Keypad
Tested Device(s): Telecody+

FCC ID: T8C203 IC: 6496A-203

Testing has been carried out in

FCC Regulations: Title 47 CFR, Chapter I

accordance with: FCC Regulations, Subchapter A
Subpart B: §15.109 (Class B limits)

ISED Regulations:

ICES-003, Issue 6 (Class B limits)

Deviations, modifications or clarifications (if any) to above mentioned documents are written in each section under "Test method and limit".

Test Results:

☑ The EUT complies with the requirements in respect of selected parameters subject to

The test results relate only to devices specified in this document

Signatures:

Dipl.-Ing. Ninovic Perez
Test Lab Manager
Authorization of test report

B.Sc H.Laayouni Test manager Responsible of test report



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1 General information

1.1 Disclaimer and Notes

The test results of this test report relate exclusively to the test item specified in this test report as specified in chapter 2.7. CETECOM does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.

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The test report must always be reproduced in full; reproduction of an excerpt only is subject to written approval of the testing laboratory. The documentation of the testing performed on the tested devices is archived for 10 years at CETECOM.

Also we refer on special conditions which the applicant should fulfill according §2.927 to §2.948, special focus regarding modification of the equipment and availability of sample equipment for market surveillance tests.

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1.1. Summary of Test Results

Test case	Reference	Reference	Reference	Remark	Result
	in FCC 🛛	in ISED 🛛	in RSS-GEN 🛛		
Radiated field strength emissions 30 MHz – 1	§15.109	ICES-003, Issue 6	RSS-Gen., Issue 5		
GHz	§15.33		Chapter 8.9,		PASSED
	§15.35		Chapter 7.3		
Radiated field strength emissions above 1 GHz	§15.109	ICES-003, Issue 6	RSS-Gen., Issue 5		
	§15.33		Chapter 8.9,		PASSED
	§15.35		Chapter 7.3		

PASSED The EUT complies with the essential requirements in the standard.

FAILED The EUT does not comply with the essential requirements in the standard.

NP The test was not performed by the CETECOM Laboratory.

1.2. Summary of Test Methods

Test case	Test method
Radiated field strength emissions 30 MHz – 1 GHz	ANSI C63.4-2014 chapter 8.2.3
Radiated field strength emissions above 1 GHz	ANSI C63.4-2014 chapter 8.3

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^{*}The calculation of the measurement uncertainty shows compliance with the "maximum measurement uncertainties" of the tested standard and therefore for result evaluation the stated uncertainties will not be additionally added to the measured results.



2 Administrative Data

2.1 Identification of the Testing Laboratory

Company name: CETECOM GmbH
Address: Im Teelbruch 116

45219 Essen - Kettwig

Germany

Responsible for testing laboratory: Dipl.-Ing. Ninovic Perez

Accreditation scope: <u>DAkkS Webpage</u>

Test location: CETECOM GmbH; Im Teelbruch 116; 45219 Essen - Kettwig

2.2 General limits for environmental conditions

Temperature:	22±2 °C
Relative. humidity:	45±15% rH

2.3 Test Laboratories sub-contracted

2.4 Organizational Items

Order No.:	1
Responsible test manager:	B.Sc H.Laayouni
Receipt of EUT:	2021-Jan-17
Date(s) of test:	2021-Jan-26
Version of template:	14.3

2.5 Applicant's details

Applicant's name:	SOMMER Antriebs- und Funktechnik GmbH	
Address:	Hans-Boeckler Straße 27	
Address.	73230 Kirchheim unter Teck	
	Germany	
Contact Person:	Mr. Jochen Lude	
Contact Person's Email:	j.lude@sommer.eu	

2.6 Manufacturer's details

Applicant's name:	SOMMER Antriebs- und Funktechnik GmbH
Address:	Hans-Boeckler Straße 27
	73230 Kirchheim unter Teck
	Germany

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2.7 EUT: Type, S/N etc. and short descriptions used in this test report

Short descrip tion*)	PMT Sample No.	Product	Model	Туре	S/N	HW status	FW status
EUT 01	21-1-01322S05_C01	Wireless Keypad	Telecody+	n/a		TRX50- TRM01-868	S10186-00206

^{*)} EUT short description is used to simplify the identification of the EUT in this test report.

2.8 Auxiliary Equipment (AE): Type, S/N etc. and short descriptions

Short descrip tion*)	PMT Sample No.	Auxiliary Equipment	Model	Туре	S/N	HW status	SW status
AE 1							

^{*)} AE short description is used to simplify the identification of the auxiliary equipment in this test report.

2.9 Connected cables

Short description	crip No.	Cable type	Connectors	Lenght
CAB				

^{*)} CAB short description is used to simplify the identification of the connected cables in this test report.

2.10 Softwares

de	ort escrip on*)	PMT Sample No.	Software	Туре	S/N	HW status	SW status

^{*)} SW short description is used to simplify the identification of the used softwares in this test report.

2.11 EUT set-ups

set-u no.*	Combination of FUT and AF	Description
1	EUT 01	

^{*)} EUT set-up no. is used to simplify the identification of the EUT set-up in this test report.

2.12 EUT operation modes

EUT operating mode no.*)	Operating modes	Additional information		
Operating mode 1	Receive mode	Receive mode was set on the EUTduring the Measurement		

^{*)} EUT operating mode no. is used to simplify the test report.

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3 Equipment under test (EUT)

3.1 General Data of Main EUT as Declared by Applicant

Product name	Telecody+	Telecody+			
Kind of product	Wireless Keypad	Wireless Keypad			
Firmware		☐ Special version for test execution			
Power supply	☐ AC Mains	-			
	□ DC Mains	3VDC (used for the measurments)			
	Battery	3VDC (CR123A)			
Operational conditions	T _{nom} = °C	T _{min} =-40 °C	T _{max} =80 °C		
EUT sample type	Pre-Production	Pre-Production			
Weight	0,1Kg	0,1Kg			
Size	14.5 x 5.0 x 3.0 cm	14.5 x 5.0 x 3.0 cm			
Interfaces/Ports					
For further details refer Applican	ts Declaration & following tech	nnical documents			

3.2 Modifications on Test sample

Additions/deviations or exclusions	
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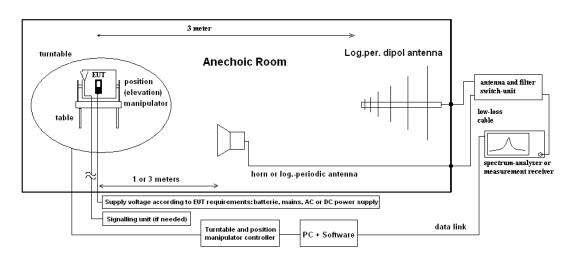
4 Measurements

4.1 Radiated field strength emissions 30 MHz - 1 GHz

4.1.1 Description of the general test setup and methodology, see below example:

Evaluating the field emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a NSA-compliant semi anechoic room (SAR) recognized by the regulatory commissions.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses: (See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Exploratory, preliminary measurements

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 0.8 m height which is placed on the turntable. By rotating the turntable (range 0° to 360°, step 90°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT) the emission spectrum and its characteristics was recorded with an EMI-receiver, broadband antenna and software.

Measurement antenna: horizontal and vertical, heights: 1,0 m and 1,82 m as worst-case determined by an exploratory emission measurements. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case of them. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by main-taining the EUT's worst-case operation mode, cable position, etc. either on 10m OATS or 3m semi-anechoic room.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.

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Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself either over 3-orthogonal axis (not defined usage position) or 2-orthogonal axis (defined usage position). The measurement antenna height between 1 m and 4 m.

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out

Formula:

 $E_C = E_R + AF + C_L + D_F - G_A \quad \mbox{(1)} \label{eq:eccentric}$ $AF = \mbox{Antenna factor}$ $C_L = \mbox{Cable loss}$

 $M = L_T - E_C$ (2) $D_F = Distance correction factor (if used)$

 E_C = Electrical field – corrected value

E_R = Receiver reading

G_A = Gain of pre-amplifier (if used)

 L_T = Limit M = Margin

All units are dB-units, positive margin means value is below limit.

4.1.2 Measurement Location

Test site 120901 - SAC - Radiated Emission <1GHz

4.1.3 Limit

Frequency Range	Class B	(3 meters)	Class A 🔲 (10 meters)			
[MHz]	Limit [μV/m]	Limit	Limit [μV/m]	Limit [dBµV/m]	Detector	RBW / VBW
		[dBµV/m]				[kHz]
30 - 88	100	40.0	90	39.0	Quasi peak	100 / 300
88 - 216	150	43.5	150	43.5	Quasi peak	100 / 300
216 - 960	200	46.0	210	46.4	Quasi peak	100 / 300
960 - 1000	500	54.0	300	49.5	Quasi peak	100 / 300

4.1.4 Result

Diagram	Mode	Maximum Level [dBμV/m] Frequency Range 30 – 1000 MHz	Result
<u>3.01</u>	Op mode 1	33.91 dBμV/m @ 798.33MHz	Passed

Remark: for more informations and graphical plot see annex A1 CETECOM_TR21_1_0132201T06a_A1

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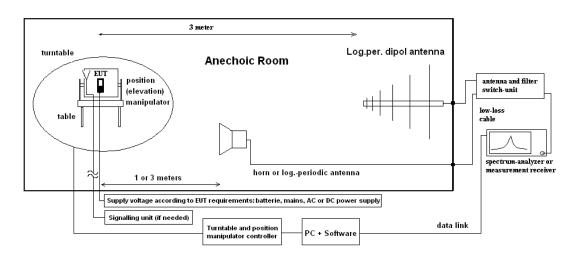


4.1 Radiated field strength emissions above 1 GHz

4.1.1 Description of the general test setup and methodology, see below example:

Evaluating the emissions have to be done first by an exploratory emissions measurement and a final measurement for most critical frequencies. The tests are performed in a CISPR 18-1-4:2010 compliant fully anechoic room (FAR) recognized by the regulatory commission. The measurement distance was set to 3 meter for frequencies up to 18 GHz and 2 meter above 18 GHz. A logarithmic periodic antenna is used for the frequency range 30 MHz to 1 GHz. Horn antennas are used for frequency range 1 GHz to 40 GHz. The EUT is aligned within 3 dB beam width of the measurement antenna with three orthogonal axis measurements on the EUT.

Schematic:



Testing method:

The measurement is made according to relevant reference clauses: (See Tables *Summary of Test Results* and *Summary of Test Methods* on page 5)

Exploratory, preliminary measurements

The EUT and its associated accessories are placed on a non-conductive position manipulator (tipping device) of 1.55 m height which is placed on the turntable. By rotating the turntable (range 0° to 360°, step 15°) and the EUT itself either on 3-orthogonal axis (portable equipment) or 2-orthogonal axis (defined operational position of EUT) the emission spectrum and its characteristics was recorded with an EMI-receiver, broadband antenna and software.

The measurements are performed in horizontal and vertical polarization of the measurement antennas. The results are documented in a diagram. Critical frequencies (low margin to limit) are saved within a table for further investigations. If various operating modes are supported, further investigations are made to find the worst-case of them. Also the interconnection cables and equipment position were varied in order to maximize the emissions.

Final measurement on critical frequencies

Based on the exploratory measurements, the most critical frequencies are re-measured by main-taining the EUT's worst-case operation mode, cable position, etc.

First a frequency zoom around the critical frequency is done to locate the frequency more precisely. After this step, for all identified critical frequencies, the maximum peak was determined.

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Following parameters were varied: the turntable angle continuously in the range 0 to 360 degree, the EUT itself over 3-orthogonal axis and the height for EUT with large dimensions or three axis scan for portable/small equipment.

On the determined worst-case position, a final measurement with necessary bandwidth and detector according standard has been carried out.

Formula:

$$\begin{split} E_C &= E_R + A_F + C_L + D_F - G_A \quad \text{(1)} \\ &\qquad \qquad \qquad \qquad \qquad \\ E_R &= \text{Receiver reading} \\ M &= L_T - E_C \quad \qquad \text{(2)} \\ &\qquad \qquad \\ M &= \text{Margin} \\ L_T &= \text{Limit} \\ A_F &= \text{Antenna factor} \\ C_L &= \text{Cable loss} \\ D_F &= \text{Distance correction factor (if used)} \\ G_A &= \text{Gain of pre-amplifier (if used)} \end{split}$$

All units are dB-units, positive margin means value is below limit.

4.1.2 Measurement Location

Test site 12094 - FAC1 - Radiated Emissions	
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4.1.3 Limit

Radiated emissions limits (3 meters)						
Frequency Range [MHz]	Limit [μV/m]	Limit [dBμV/m]	Detector	RBW / VBW [kHz]		
Above 1000	500	54	Average	1000 / 3000		
Above 1000	5000	74	Peak	1000 / 3000		

4.1.4 Result

Diagram		Maximum Level [dBμV/m] Frequency Range 1 – 10 GHz	Result
4.01	OP. mode 1	61.89 dBµV/m @2.79GHz	Passed

Remark: for more informations and graphical plot see annex A1 CETECOM_TR21_1_0132201T06a_A1

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4.2 Results from external laboratory

4.3 Opinions and interpretations

None	-

4.4 List of abbreviations

|--|

5 Equipment lists

120901 - SAC - Radiated Emission <1GHz			
Biconilog Hybrid Antenna BTA-L	Frankonia GmbH	980026L	03.05.2022
EMI Test Receiver ESU26	Rohde & Schwarz Messgerätebau GmbH	100362	21.06.2022
filter matrix Filter matrix SAR 1	CETECOM GmbH	-	
Power Supply EA3632A	Agilent Technologies Deutschland GmbH	75305850	
System CTC NSA-Verification SAR-EMI System EMI field (SAR) NSA	ETS-Lindgren Gmbh	-	23.03.2022
120904 - FAC1 - Radiated Emissions			
Digital Multimeter Fluke 112	Fluke Deutschland GmbH	81650455	25.05.2022
EMC32 [FAC]	Rohde & Schwarz Messgerätebau GmbH	V10.xx	
EMI Test Receiver ESU40	Rohde & Schwarz Messgerätebau GmbH	1000-30	23.06.2022
High Pass Filter 5HC 2600/12750-1.5KK (GSM1800/1900/DECT)	Trilithic	23042	
High Pass Filter AFH-07000	AtlanTecRF	16071300004	
High Pass Filter WHJ 2200-4EE (GSM 850/900)	Wainwright Instruments GmbH	14	
Horn Antenna 3115	EMCO Elektronik GmbH	9012-3629	08.04.2023
Horn Antenna BBHA9170 (Meas 1)	Schwarzbeck Mess-Elektronik OHG	155	15.04.2023
Notch Filter WRCA 800/960-02/40-6EEK (GSM 850)	Wainwright Instruments GmbH	24	
Notch Filter WRCA 901,9/903,1SS (GSM 900)	Wainwright Instruments GmbH	3RR	
Notch Filter WRCB 1747/1748 (GSM 1800)	Wainwright Instruments GmbH	12	
Notch Filter WRCB 1879,5/1880,5EE (GSM 1900)	Wainwright Instruments GmbH	15	
Notch Filter WRCT 1850.0/2170.0-5/40-10SSK (WCDMA-FDD II)	Wainwright Instruments GmbH	5	
	FMI Test Receiver ESU26 filter matrix Filter matrix SAR 1 Power Supply EA3632A System CTC NSA-Verification SAR-EMI System EMI field (SAR) NSA 120904 - FAC1 - Radiated Emissions Digital Multimeter Fluke 112 EMC32 [FAC] EMI Test Receiver ESU40 High Pass Filter 5HC 2600/12750-1.5KK (GSM1800/1900/DECT) High Pass Filter AFH-07000 High Pass Filter WHJ 2200-4EE (GSM 850/900) Horn Antenna 3115 Horn Antenna BBHA9170 (Meas 1) Notch Filter WRCA 800/960-02/40-6EEK (GSM 850) Notch Filter WRCA 901,9/903,15S (GSM 900) Notch Filter WRCB 1747/1748 (GSM 1800) Notch Filter WRCB 1879,5/1880,5EE (GSM 1900)	EMI Test Receiver ESU26 Rohde & Schwarz Messgerätebau GmbH Filter matrix Filter matrix SAR 1 CETECOM GmbH Agilent Technologies Deutschland GmbH System CTC NSA-Verification SAR-EMI System EMI field (SAR) NSA 120904 - FAC1 - Radiated Emissions Digital Multimeter Fluke 112 EMC32 [FAC] Rohde & Schwarz Messgerätebau GmbH EMI Test Receiver ESU40 Rohde & Schwarz Messgerätebau GmbH High Pass Filter 5HC 2600/12750-1.5KK (GSM1800/1900/DECT) High Pass Filter AFH-07000 AtlanTecRF High Pass Filter WHJ 2200-4EE (GSM 850/900) Wainwright Instruments GmbH Horn Antenna 3115 EMC0 Elektronik GmbH Notch Filter WRCA 901,9/903,1SS (GSM 900) Wainwright Instruments GmbH Notch Filter WRCA 901,9/903,1SS (GSM 900) Wainwright Instruments GmbH Notch Filter WRCB 1747/1748 (GSM 1800) Wainwright Instruments GmbH Notch Filter WRCB 1879,5/1880,5EE (GSM 1900) Wainwright Instruments GmbH Notch Filter WRCB 1879,5/1880,5EE (GSM 1900) Wainwright Instruments GmbH Notch Filter WRCB 1879,5/1880,5EE (GSM 1900) Wainwright Instruments GmbH Notch Filter WRCB 1879,5/1880,5EE (GSM 1900) Wainwright Instruments GmbH Notch Filter WRCB 1879,5/1880,5EE (GSM 1900) Wainwright Instruments GmbH Notch Filter WRCT 1850.0/2170.0-5/40-10SSK (WCDMA-	EMI Test Receiver ESU26 Rohde & Schwarz Messgerätebau GmbH 100362 filter matrix Filter matrix SAR 1 CETECOM GmbH - Power Supply EA3632A Agilent Technologies Deutschland GmbH 75305850 System CTC NSA-Verification SAR-EMI System EMI field (SAR) NSA 120904 - FAC1 - Radiated Emissions Digital Multimeter Fluke 112 Fluke Deutschland GmbH 81650455 EMC32 [FAC] Rohde & Schwarz Messgerätebau GmbH V10.xx EMI Test Receiver ESU40 Rohde & Schwarz Messgerätebau GmbH 1000-30 High Pass Filter SHC 2600/12750-1.5KK (GSM1800/1900/DECT) High Pass Filter AFH-07000 AtlanTecRF 16071300004 High Pass Filter WHJ 2200-4EE (GSM 850/900) Wainwright Instruments GmbH 14 Horn Antenna 3115 EMC0 Elektronik GmbH 9012-3629 Horn Antenna BBHA9170 (Meas 1) Schwarzbeck Mess-Elektronik OHG 155 Notch Filter WRCA 800/960-02/40-6EEK (GSM 850) Wainwright Instruments GmbH 12 Notch Filter WRCB 1747/1748 (GSM 1800) Wainwright Instruments GmbH 15 Notch Filter WRCB 1879,5/1880,5EE (GSM 1900) Wainwright Instruments GmbH 15 Notch Filter WRCB 1879,5/1880,5EE (GSM 1900) Wainwright Instruments GmbH 15

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ID	Description	Manufacturer	SerNo	Cal due date
20066	Notch Filter WRCT 1900/2200-5/40-10EEK (WCDMA - FDDI)	Wainwright Instruments GmbH	5	
20449	Notch Filter WRCT 824.0/894.0-5/40-8SSK (WCDMA FDD V)	Wainwright Instruments GmbH	1	
20611	Power Supply E3632A	Agilent Technologies Deutschland GmbH	KR 75305854	
20338	Pre-Amplifier 100MHz - 26GHz JS4-00102600-38-5P	Miteq Inc.	838697	
20484	Pre-Amplifier 2,5GHz - 18GHz AMF-5D-02501800-25- 10P	Miteq Inc.	1244554	
20287	Pre-Amplifier 25MHz - 4GHz AMF-2D-100M4G-35-10P	Miteq Inc.	379418	
20670	Radio Communication Tester CMU200	Rohde & Schwarz Messgerätebau GmbH	106833	16.06.2022
20690	Spectrum Analyzer FSU	Rohde & Schwarz Messgerätebau GmbH	100302/026	23.06.2022
20439	UltraLog-Antenna HL 562	Rohde & Schwarz Messgerätebau GmbH	100248	10.03.2023
20828	Netgear Nighthawk x4S	NETGEAR Ireland International Ltd	5K5188590067B	
20732	Signal- and Spectrum Analyzer FSW67	Rohde & Schwarz Messgerätebau GmbH	104023	27.06.2022

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6 Measurement Uncertainty valid for conducted/radiated measurements

The reported uncertainties are calculated based on the standard uncertainty multiplied with the appropriate coverage factor **k**, such that a confidence level of approximately 95% is achieved. For uncertainty determination, each component used in the concrete measurement set-up was taken in account and it contribution to the overall uncertainty according its statistical distribution calculated.

RF-Measurement	Reference	Frequency range	Calculated uncertainty based on a confidence level of 95%		Remarks				
Conducted emissions		9 kHz - 150 kHz	4.0 dB						
(U CISPR)	_	150 kHz - 30 MHz 3.6							-
Power Output radiated	-	30 MHz - 4 GHz	3.17 dB				Substitution method		
Power Output conducted		Set-up No.	Cel- C1	Cel- C2	BT1	W1	W2		
Power Output conducted	-	9 kHz - 12.75 GHz	N/A	0.60	0.7	0.25	N/A		
		12.75 - 26.5 GHz	N/A	0.82		N/A	N/A]
Conducted emissions	-	9 kHz - 2.8 GHz	0.70	N/A	0.70	N/A	0.69		
on RF-port		2.8 GHz - 12.75 GHz	1.48	N/A	1.51	N/A	1.43		N/A - not
		12.75 GHz – 18 GHz	1.81	N/A	1.83	N/A	1.77		applicable
		18 GHz - 26.5 GHz	1.83	N/A	1.85	N/A	1.79		
Occupied bandwidth	_	9 kHz - 4 GHz	0.1272 ppm (Delta Marker)						Frequency error
occupied ballawidth		9 KHZ - 4 GHZ	1.0 dB						Power
	-		0.1272 ppm (Delta Marker)					Frequency	
Emission bandwidth		9 kHz - 4 GHz							error
	-		See above: 0.70 dB					Power	
Frequency stability	-	9 kHz - 20 GHz	0.0636 ppm				-		
	-	150 kHz - 30 MHz	5.01dB					Magnetic	
Radiated emissions						field strength			
Enclosure		30 MHz - 1 GHz					Electrical		
LIIGIOSUIE		1 GHz - 18 GHz					Field		
		18 GHz - 26.5 GHz	5.06 dB				strength		

7 Versions of test reports (change history)

Version	Applied changes	Date of release
	Initial release	2022-Feb-11

End Of Test Report

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