
Health Test Report

Report No.: AGC11034221101EH02

PRODUCT DESIGNATION : Doorbell Chime
BRAND NAME : Reolink
MODEL NAME : Reolink Chime
APPLICANT : REOLINK INNOVATION LIMITED
DATE OF ISSUE : Dec. 14, 2022
STANDARD(S) : EN 62479:2010
: EN 50663:2017
REPORT VERSION : V1.0



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 14, 2022	Valid	Initial release

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1. GENERAL INFORMATION

Applicant	REOLINK INNOVATION LIMITED
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Manufacturer	REOLINK INNOVATION LIMITED
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Factory	Shenzhen Reolink Technology Co., Ltd
Address	2-4th Floor, Building 2, Yuanling Industrial Park, ShangWu, Shiyan Street, Bao' an District, Shenzhen, China
Product Designation	Doorbell Chime
Brand Name	Reolink
Test Model	Reolink Chime
Date of receipt of test item	Nov. 08, 2022
Date of test	Nov. 08, 2022 to Dec. 14, 2022
Test Result	Pass

We (AGC), Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the European Standard EN 62479:2010. The results of testing in this report apply to the product/system which was tested only.

Prepared By		
	Jack Gui	Dec. 14, 2022
	(Project Engineer)	
Reviewed By		
	Calvin Liu	Dec. 14, 2022
	(Reviewer)	
Approved By		
	Max Zhang	Dec. 14, 2022
	(Authorized Officer)	

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2. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

Product Designation	Doorbell Chime
Brand Name	Reolink
Test Model	Reolink Chime
Hardware Version	N/A
Software Version	N/A
Operating Frequency	433.92MHz
Modulation type	ASK
Antenna Type	Spring Antenna
Antenna gain	0dBi
Power Supply	AC 100-240V 50/60Hz

Note: For more details, please refer to the user's manual of the EUT.

3. TEST RESULT

The RX mode is reception, which deemed to comply with the basic restrictions without testing.

4. CONCLUSION

Remark: EUT meets the basic requirements in the standard.

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2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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RF Test Report

Report No.: AGC11034221101EE12

PRODUCT DESIGNATION : Doorbell Chime

BRAND NAME : Reolink

MODEL NAME : Reolink Chime

APPLICANT : REOLINK INNOVATION LIMITED

DATE OF ISSUE : Dec. 14, 2022

STANDARD(S) : EN 300 220-1 V 3.1.1 (2017-02)
EN 300 220-2 V 3.2.1 (2018-06)

REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 14, 2022	Valid	Initial Release

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1. TEST RESULT CERTIFICATION

Applicant	REOLINK INNOVATION LIMITED
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Manufacturer	REOLINK INNOVATION LIMITED
Address	FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG
Factory	Shenzhen Reolink Technology Co., Ltd
Address	2-4th Floor, Building 2, Yuanling Industrial Park, ShangWu, Shiyen Street, Bao' an District, Shenzhen, China
Product Designation	Doorbell Chime
Brand Name	Reolink
Test Model	Reolink Chime
Date of receipt of test item	Nov. 08, 2022
Date of test	Nov. 08, 2022 to Dec. 14, 2022
Deviation	None
Test Result	Pass

The above equipment was tested by ATTESTATION OF GLOBAL COMPLIANCE (SHENZHEN) CO., LTD. for compliance with the requirements set forth in the European Standard ETSI EN 300 220-2 V3.1.1. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Prepared By



Jack Gui

(Project Engineer)

Dec. 14, 2022

Reviewed By



Calvin Liu

(Reviewer)

Dec. 14, 2022

Approved By



Max Zhang

(Authorized Officer)

Dec. 14, 2022

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2. EUT DESCRIPTION

Details of technical specification refer to the description in follows:

Hardware Version	N/A
Software Version	N/A
Operation Frequency	433.92MHz
Modulation	ASK
OCW	215.61kHz
Receiver Category	2
Number of Channels	1 Channels
Antenna Type	Spring antenna
Antenna Gain	0dBi
Power Supply	AC 100-240V 50/60Hz

NOTE:

1. Please refer to Appendix A for the photographs of the EUT.
2. For more information, please refer to User's Manual.
3. The minimum/maximum temperature of -10/40°C is not a standard requirement and is measured according to the maximum service temperature stated by the manufacturer.

Test items and the results are as bellow:

Basic Standard	Test Type	Result
EN 300 220-2 Clause 4.2 All equipment conformance requirements	4.2.1 Operating frequency	Not applicable
	4.2.2 Unwanted emissions in the spurious domain	Not applicable
EN 300 220-2 Clause 4.3 Transmitters conformance requirements	4.3.1 Effective Radiated Power	Not applicable
	4.3.2 Maximum e.r.p. spectral density	Not applicable
	4.3.3 Duty Cycle	Not applicable
	4.3.4 Occupied Bandwidth	Not applicable
	4.3.5 Tx Out of Band Emissions	Not applicable
	4.3.6 Transient power	Not applicable
	4.3.7 Adjacent Channel Power	Not applicable
	4.3.8 TX behaviour under Low Voltage Conditions	Not applicable
	4.3.9 Adaptive Power Control	Not applicable
	4.3.10 FHSS equipment	Not applicable
	4.3.11 Short term behaviour	Not applicable
EN 300 220-2 Clause 4.4 Receivers conformance requirements	4.4.1 RX sensitivity	Pass
	4.4.2 Blocking	Pass
EN 300 220-2 Clause 4.5 Polite spectrum access conformance requirement	Clear Channel Assessment threshold Polite spectrum access timing parameters Adaptive Frequency Agility	Not applicable

Note:

1. According to the EN 300 220-2 V3.2.1 Annex B table B.1, the EUT is belong to band H and the clauses 4.3.2, 4.3.7, 4.3.9, 4.3.10, 4.4.1, 4.5 are not applicable.

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3. DESCRIPTION OF TEST MODES

The EUT has been tested under Normal Operating and standby condition. No software used to control the EUT for staying in continuous transmitting and receiving mode for testing.

4. TEST FACILITY

Test Site:	Attestation of Global Compliance (Shenzhen) Co., Ltd.
Address:	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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5. EN 300 220 REQUIREMENT

5.1 OPERATING FREQUENCY

5.1.1 MEASUREMENT EQUIPMENT USED:

Not applicable.

5.1.2 TEST SETUP:

Not applicable.

5.1.3 TEST LIMITS:

The manufacturer may declare either one or more operating frequencies and operating channels. Operating channel(s) shall be entirely within operational frequency bands allowed by EN 300 220-2 V3.1.1 annexes B, C or any NRI.

5.1.4 TEST PROCEDURE:

Not applicable.

5.1.5 TEST RESULTS:

Frequency Measured (MHz)		
Operating frequency	Limit Band	Result (Pass/Fail)
433.92MHz	433.050MHz-434.790MHz	Pass

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5.2 UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

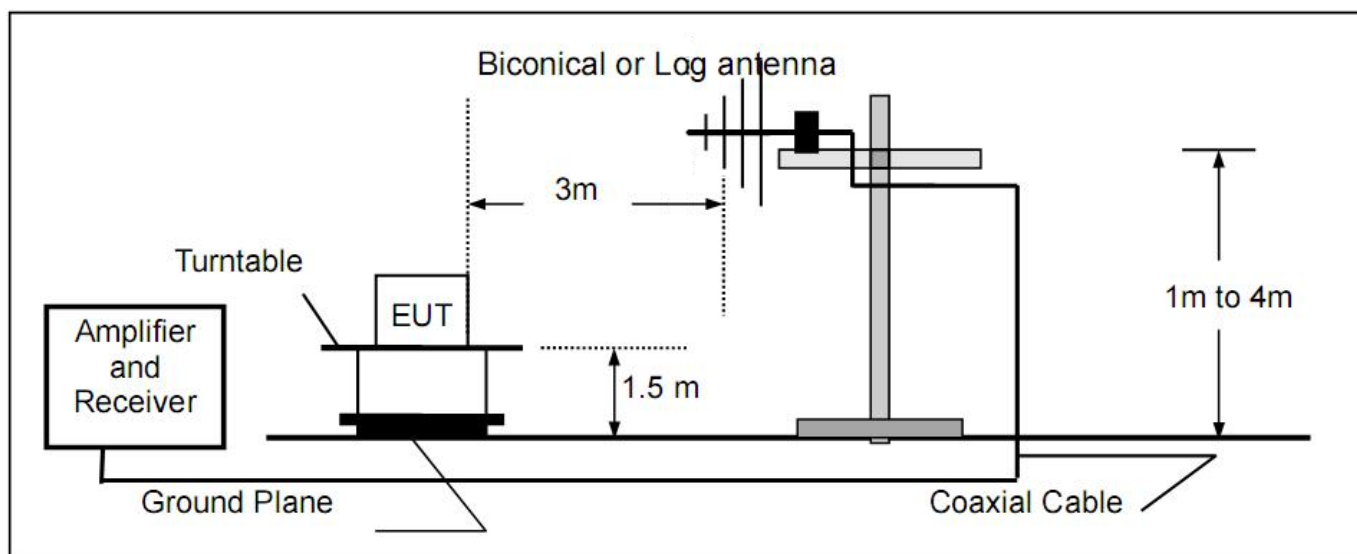
5.2.1 MEASUREMENT EQUIPMENT USED:

RADIATED EMISSION TEST SITE				
NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Due
Spectrum Analyzer	Agilent	E9020A	MY49100060	Aug. 03, 2023
ANTENNA	SCHWARZBECK	VULB9168	494	Apr. 27, 2023
Biconilog Antenna	EMCO	3142C	00060447	N/A
Signal Generator	Aglient	N5171B	MY45141029	Aug. 02, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 22, 2023
HORN ANTENNA	EM	EM-AH-10180	67	Oct. 30, 2023

Remark: Each piece of equipment is scheduled for calibration once a year.

5.2.2 TEST SETUP:

RADIATED BELOW 1GHZ



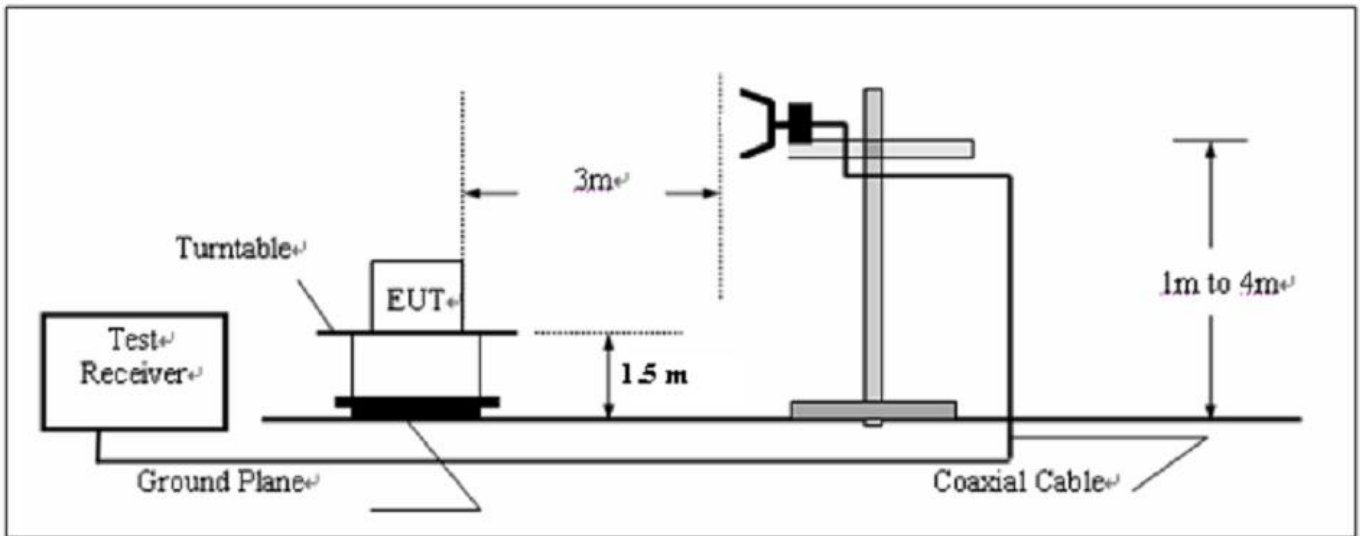
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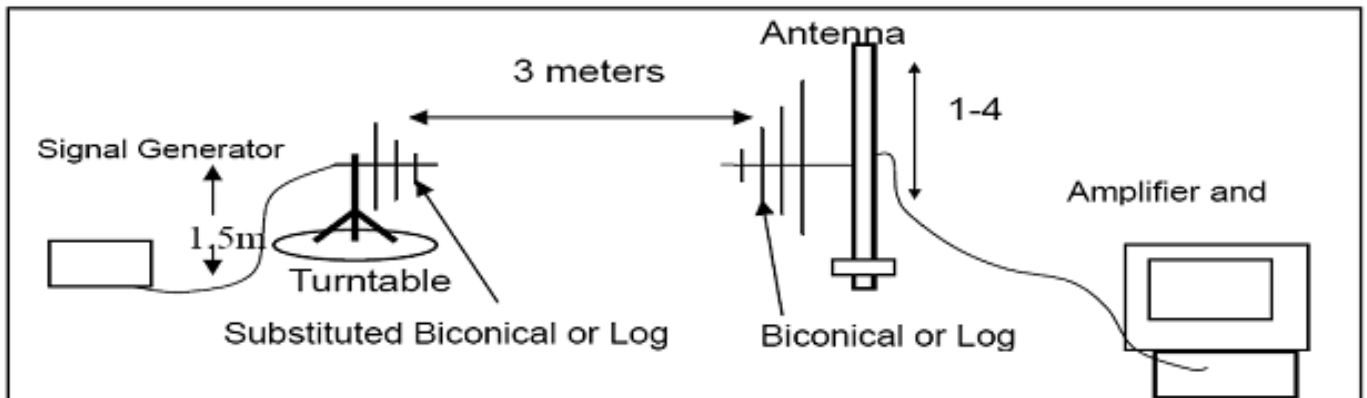
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RADIATED ABOVE 1GHZ

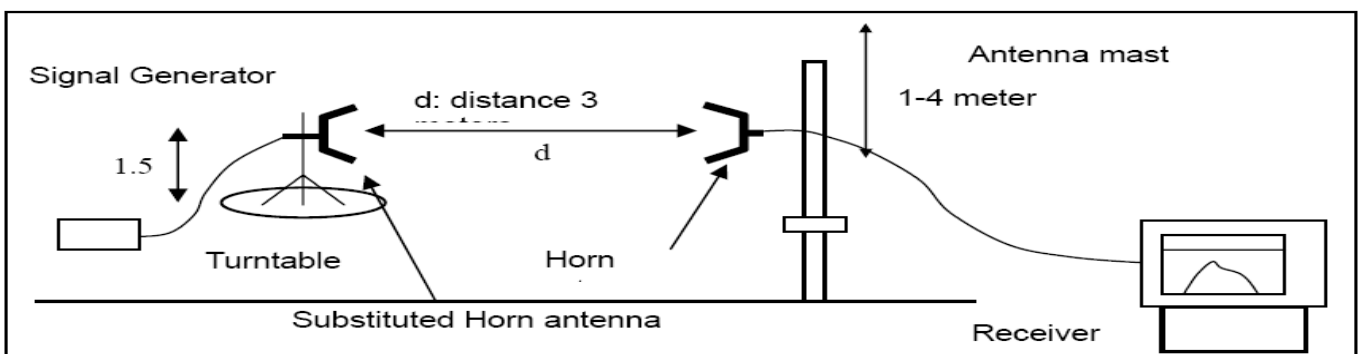


SUBSTITUTION METHOD: (RADIATED EMISSIONS)

RADIATED BELOW 1GHZ



RADIATED ABOVE 1 GHZ



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5.2.3 TEST LIMITS:

Frequency State	47 MHz to 74 MHz 87,5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 790 MHz	Other frequencies below 1 000 MHz	Frequencies above 1 000 MHz
TX mode	-54 dBm	-36 dBm	-30 dBm
RX and all other modes	-57 dBm	-57 dBm	-47 dBm

5.2.4 TEST PROCEDURE:

- a, EUT was placed on an 1.5m outdoor wooden table. The search antenna is placed at 3m distances from the EUT and search antenna height is from 1-4m. With the transmitter operating at continuously mode, the turntable was slowly rotated to locate the direction of maximum emission. Once maximum direction is determined, the search antenna was raised and lowered in both vertical and horizontal polarizations.
- b, The EUT was removed from the turntable and replaced with a linearly polarized antenna connected to a calibrated RF signal generator. The RF generator was set to a measured emission frequency and the search antenna was raised and lowered to produce a maximum received reading. The generator output was increased to match the radiated emission reading measured previously, and the result expressed in dB EIRP or ERP, correcting for substitution antenna gain at each frequency.

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5.2.5 TEST RESULT

RX Mode:

434.92 MHz

Receiver Spurious Emission below 1GHz

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
89.93	29.78	V	-64.66	0.04	1.26	-63.44	-57.00	6.44
237.97	30.43	V	-69.44	0.11	6.60	-62.96	-57.00	5.96
313.46	28.59	V	-70.61	0.20	6.31	-64.50	-57.00	7.50
386.63	29.50	V	-70.15	0.29	6.44	-64.00	-57.00	7.00
476.94	29.22	V	-70.64	0.39	6.86	-64.18	-57.00	7.18
830.39	30.86	V	-67.00	0.66	6.30	-61.36	-57.00	4.36
Other(25-1000MHz)	--	V	--	--	--	--	-57.00	--
\								
139.70	28.72	H	-64.14	0.05	0.00	-64.19	-57.00	7.19
334.41	29.43	H	-68.74	0.23	5.94	-63.02	-57.00	6.02
394.22	30.62	H	-69.44	0.30	6.48	-63.26	-57.00	6.26
566.20	29.66	H	-70.59	0.47	6.84	-64.22	-57.00	7.22
614.35	28.93	H	-70.87	0.50	6.66	-64.72	-57.00	7.72
816.14	29.65	H	-68.95	0.65	6.92	-62.68	-57.00	5.68
Other(25-1000MHz)	--	H	--	--	--	--	-57.00	--

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Receiver Spurious Emission 1-6GHz

Frequency	Reading Level	Antenna	S.G.	Cable Loss	Ant.Gain	Emission Level	Limit	Margin
(MHz)	(dBuv)	Polarization	(dBm)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
1836.23	31.48	V	-67.26	1.26	7.15	-61.37	-47.00	14.37
3126.09	31.41	V	-67.34	1.81	7.64	-61.52	-47.00	14.52
--	--	V	--	--	--	--	--	--
--	--	V	--	--	--	--	--	--
--	--	V	--	--	--	--	--	--
Other(1000-6000MHz)	--	V	--	--	--	--	-47.00	--
1786.18	30.80	H	-67.88	1.23	6.93	-62.18	-47.00	15.18
3433.92	30.60	H	-69.28	1.90	8.26	-62.92	-47.00	15.92
--	--	H	--	--	--	--	--	--
--	--	H	--	--	--	--	--	--
--	--	H	--	--	--	--	--	--
Other(1000-6000MHz)	--	H	--	--	--	--	-47.00	--

Remark: 1) Measuring frequencies from 25MHz to the 6GHz.
2) The emission more than 20dB below the limit is not measured.

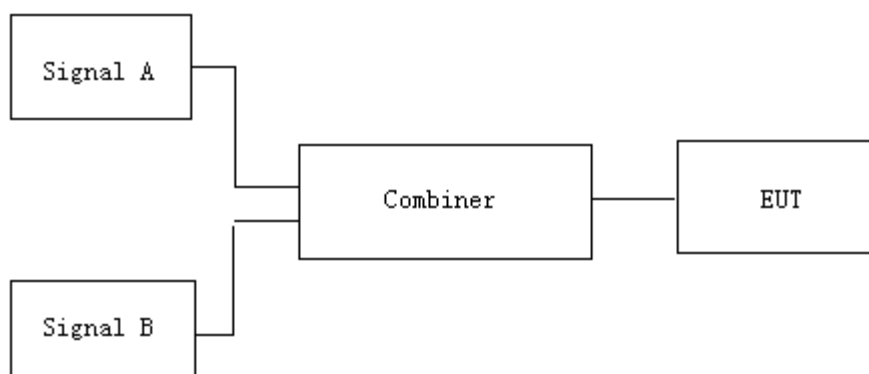
5.9 BLOCKING

5.9.1 MEASUREMENT EQUIPMENT USED:

RADIATED EMISSION TEST SITE				
NAME OF EQUIPMENT	MANUFACTURER	MODEL	S/N	Cal. Due
Signal Generator	Aglient	N5182B	MY53050647	Aug. 02, 2023
Signal Generator	Aglient	E8257D	MY45141029	Aug. 02, 2023

Remark: Each piece of equipment is scheduled for calibration once a year.

5.9.2 TEST SETUP:



5.9.3 TEST LIMITS:

Table 41: Blocking level parameters for RX category 2

Requirement	Limits
	Receiver category 2
Blocking at ± 2 MHz from OC edge f_{high} and f_{low}	≥ -69 dBm
Blocking at ± 10 MHz from OC edge f_{high} and f_{low}	≥ -44 dBm
Blocking at ± 5 % of Centre Frequency or 15 MHz, whichever is the greater	≥ -44 dBm

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5.9.4 TEST PROCEDURE:

Signal generator A shall be set to an appropriate modulated test signal at the operating frequency of the EUT receiver. Signal generator B shall be unmodulated. Measurements shall be carried out at frequencies of the unwanted signal at approximately the frequency offset defined in technical requirement avoiding those frequencies at which spurious responses occur.

Signal generator B shall be powered off. Signal generator A shall be set to the minimum level which gives the wanted performance criterion of EUT, whichever is the higher. The output level of generator A shall then be increased by 3 dB unless otherwise specified in technical requirement.

The blocking level is then the conducted power received from generator B at the EUT antenna connector.

This can either be measured on the antenna connector for conducted test or be calculated for radiated test.

The blocking level shall be higher or equal to the blocking power level requested in the technical requirement clause.

The measurement shall be repeated with signal offsets at required frequencies.

5.9.5 TEST RESULTS:

Center of the operated frequency =433.92MHz

Receiver Class	Frequency Offset (MHz)	Blocking Level (Signal generator B at the EUT antenna connector)	Limit (dBm)
2	-2	-54.10	-69
	+2	-52.11	-69
	-10	-31.12	-44
	+10	-30.50	-44
	-5%	-23.44	-44
	+5%	-23.51	-44

Note: The OCW =215.61kHz

Conclusion: PASS

6. INTERPRETATION OF MEASUREMENT RESULTS

All the measurement equipments and accessories have been carefully selected to meet the maximum measurement uncertainty specified below:

RF Frequency	$\pm 1 \times 10^{-8}$
RF Power, Conducted	$\pm 0.55\text{dB}$
Maximum Frequency Deviation: _ Within 300Hz and 6KHz of Audio Frequency _ Within 6KHz and 25KHz of Audio Frequency	$\pm 3\%$ $\pm 2\text{dB}$
Adjacent channel power	$\pm 2\text{dB}$
Conducted Emission of Transmitter, Valid Up to 12.75GHz	$\pm 3\text{dB}$
Conducted Emissions of Receivers	$\pm 2\text{dB}$
Radiated Emission of Transmitter, Valid Up to 12.75GHz	$\pm 4\text{dB}$
Radiated Emissions of Receivers	$\pm 4\text{dB}$

P.S. Uncertainty figures are valid to confidence level of 95% calculated according to the methods described in the ETR 02

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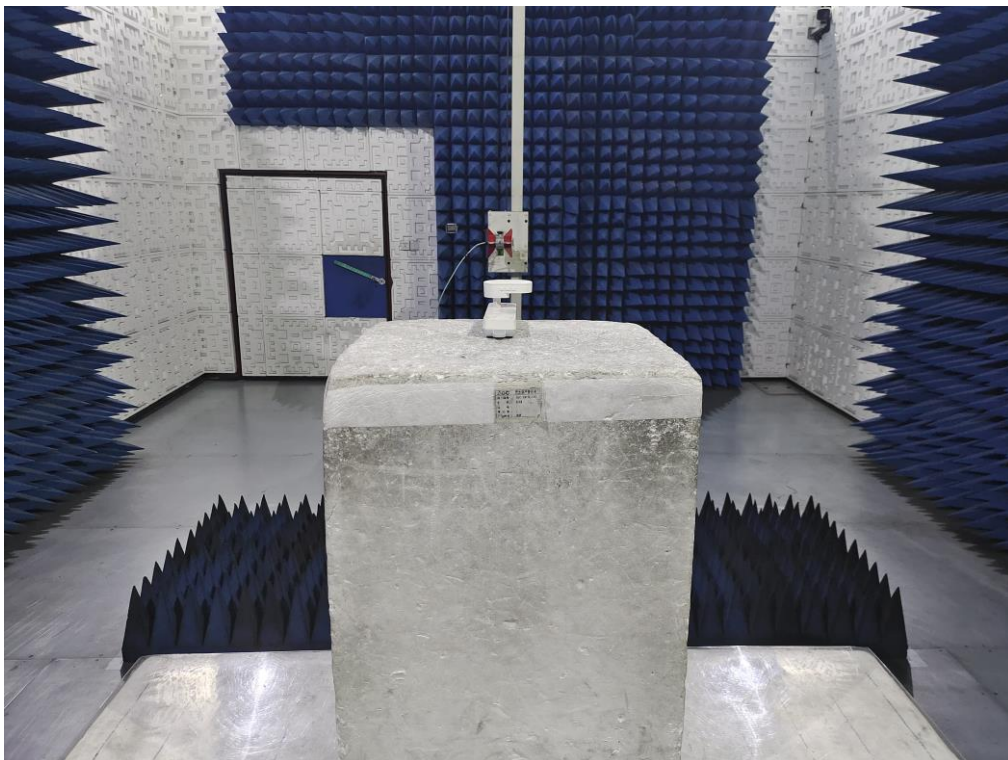
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APPENDIX A PHOTOGRAPHS OF TEST SETUP

RADIATED SPURIOUS EMISSION TEST SETUP-RX



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APPENDIX B: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC11034221101AP01

----END OF REPORT----

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