

TEST REPORT

To:	SILVERLIT TOYS MANUFACTORY LT	D. Fa	ax:	
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Cc:		F	ax/Email:	
Attn:				
Folder No.:		Date of Test da	Receipt: te:	2023-09-27 2023-09-27 to 2023-10-18
MANUFACTURER OR SUPPLIER NAME:				
MANUFACTURER OR SUPPLIER ADDRESS:				
PRODUCT:	BUILD 2 DRIVE RADICAL RACER/BL DRIVE SUPER SPORTS, BUILD 2 D MIGHTY MONSTER, BUILD 2 DRIVE PACK RACE SET	RIVE		Flfe
MODEL REFERENCE:	20700 (including 20701, 20702)			
ADDITIONAL MODEL & MODEL DIFFERENCE:	20703, 20704, 20705, see item 2.	1		
RATED VOLTAGE:	Remote: 3.0Vd.c. ("AAA" size battery Car: 3.7Vd.c. (Internal rechargeable batt			
REMARKS:				
SAMPLE NO.:	(5223)306-0362			
The submitted sample of t standards:	he above equipment has been tested acco	ording to	the requi	rements of the following

ETSI EN 300 440 V2.2.1 (2018-07)

CONCLUSION: The submitted sample was found to <u>COMPLY</u> with the test requirement

Assistant Manager, EMC Department

Name: Sze Tsz Man Date: December 21, 2023

BUREAU VERITAS HONG KONG LIMITED – Kowloon Bay Office 1/F Pacific Trade Centre, 2 Kai Hing Road, Kowloon Bay, Kowloon,HONG KONG Tel: +852 2331 0888 Fax: +852 2331 0889 www.cps.bureauveritas.com This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/bures.conditions/and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issue of this report is of hor your paterial be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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TEST RE	EPORT No.: (5223)306-0362(Revision)	
Superse	de Technical Report No.: (5223)306-0362	
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RE2309WDG0163	Original release	Oct. 30, 2023

Report Revision & Sample Re-submit History:

Revision: add additional name and model.

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SUMMARY OF TEST RESULTS 1

The EUT has been tested according to the following specifications:

	APPLIED STANDARD: EN 300 440 V2.2.1 (2018-07)					
Standard Subclause	Test Type and Limit	Result	Remark			
	TRANSMITTER PARAMETERS					
4.2.2	Equivalent Isotropic Radiated Power	PASS	Applicable			
4.2.3	Permitted range of operating frequency	PASS	Applicable			
4.2.4	Unwanted emissions in the spurious domain	PASS	Applicable			
4.2.5	Duty Cycle	N/A	Not Applicable			
	RECEIVER PARAMETERS					
4.3.3	Adjacent channel selectivity	N/A	Not Applicable			
4.3.4	Blocking or desensitization	PASS	Applicable			
4.3.5	Radiated spurious emission	PASS	Applicable			

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Receiver categories

Receiver category	Relevant receiver clauses	Risk assessment of receiver performance	The EUT Category
1	4.3.3, 4.3.4 and 4.3.5	Highly reliable SRD communication media; e.g. serving human life inherent systems (may result in a physical risk to a person).	-
2	4.3.4 and 4.3.5	Medium reliable SRD communication media e.g. causing inconvenience to persons, which cannot simply be overcome by other means.	-
3	4.3.4 and 4.3.5	Standard reliable SRD communication media e.g. Inconvenience to persons, which can simply be overcome by other means (e.g. manual).	\checkmark

If receiver category 1 or 2 is selected, this shall be stated in both the test report and in the user's manual for the equipment.

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1.1 TEST INSTRUMENTS

1.1 1231 11311				
Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Jan. 10, 24
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Jan. 11, 24
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	01282	Aug. 21, 24
Horn Antenna	ETS-Lindgren	3117	00062558	May 21, 24
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	N/A
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May 22, 24
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A
Horn Antenna (15GHz-40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	May 14, 24
Amplifier	Burgeon	BPA-530	100220	Mar. 06, 24
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	May 12, 24
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Jan. 16, 24
Power Sensor	Keysight	U2021XA	MY57320002	Feb. 23, 24
Digital Multimeter	FLUKE	15B	A1220009DG	Jul. 24, 24
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Apr. 19, 24
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 27, 24
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	May 09, 24
Spectrum Analyzer	Keysight	N9020A	MY55400499	Jan. 11, 24
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 20, 24
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	100908	May 09, 24
Vector Signal Generator	Rohde&Schwarz	SMBV100A	257579	Nov. 01, 23
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	N/A

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		811 8181121		1 1/7 1
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A

NOTES:

1. The test was performed in 966 Chamber and RF Test Shielding Room.

2. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.

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For Receiver Blocking test and Adjacent channel selectivity test:

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Wireless Connectivity Tester	Rohde&Schwarz	CMW270	102426	Jun. 01, 24
Signal Analyzer	Rohde&Schwarz	FSV7	102331	May 09, 24
Spectrum Analyzer	Keysight	N9020A	MY55400499	Jan. 10, 24
Signal Generator	Agilent	N5183A	MY50140980	Jul. 20, 24
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 20, 24
Power Sensor	Keysight	U2021XA	MY55060016	Jan. 11, 24
Vector Signal Generator	Rohde&Schwarz	SMBV100A	257579	Nov. 01, 23
Agile Signal Generator	Agilent	8645A	Agilent	N/A
Shield Box	TOJOIN	MS4345-C	SZA18A 3038	N/A
Attenuator	TOJOIN	CHB-8-90-1-B 50SMA	0803002	N/A
COM Power Splitter	TOJOIN	PS-TX-2B	020801	N/A
COM Power Splitter	TOJOIN	PS-TX-2B	020802	N/A
Test software	TonScend	JS1120-3-1	V2.6.88.0330	N/A

NOTES:

1. The test was performed in RF Test Shielding Room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

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1.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

Parameter	Uncertainty
Radio frequency	±1.06x10 ⁻⁸
RF power (conducted)	±0.56 dB
Radiated emission of transmitter, valid up to 26.5GHz	±4.84 dB
Radiated emission of transmitter, valid between 26.5GHz and 66GHz	±4.96 dB
Radiated emission of receiver, valid up to 26.5GHz	±4.84 dB
Radiated emission of receiver, valid between 26.5GHz and 66GHz	±4.96 dB
Temperature	±0.23 °C
Humidity	±0.3 %
Voltages (DC)	±0.1 %
Voltages (AC, <10kHz)	±0.22 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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1.3 MAXIMUM MEASUREMENT UNCERTAINTY

For the test methods, according to ETSI EN 300 440 standard, the measurement uncertainty figures shall be calculated in accordance with TR 100 028 [7] and shall correspond to an expansion factor (coverage factor) k = 1,96 or k = 2 (which provide confidence levels of respectively 95 % and 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Parameter	Uncertainty
Radio frequency	±1x10 ⁻⁷
RF power (conducted)	±1.5 dB
Radiated emission of transmitter, valid up to 26.5GHz	±6.0 dB
Radiated emission of transmitter, valid between 26.5GHz and 66GHz	±8.0 dB
Radiated emission of receiver, valid up to 26.5GHz	±6.0 dB
Radiated emission of receiver, valid between 26.5GHz and 66GHz	±8.0 dB
Temperature	±1°C
Humidity	±5.0 %
Voltages (DC)	±1.0 %
Voltages (AC, <10kHz)	±2.0 %

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2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCTBUILD 2 DRIVE RADICAL RACER/BUILD 2 DRIVE SUPER SPORTS/BUILD 2 DRIVE MIGHTY MONSTER/ BUILD 2 DRIVE - DUO PACK RACE SETMODEL NO.20700 (inclut 20701, 20705ADDITIONAL MODEL20703, 2070, 20705NOMINAL VOLTAGERemote control: DC 3V(1.5V*AAA*2) from battery Charging: DC 5V from USB host unitOPERATING VOLTAGE RANGERemote control: DC 3V(1.5V*AAA*2) from battery Charging: DC 5V from USB host unitOPERATING VOLTAGE RANGERemote control ControlVnom= 3VVmin= 2.55VVmax= 3VOPERATING TEMPERATURE RNAGECarVnom= 3.7VVmin= 3.15VVmax= 3.7VOPERATING TEMPERATURE RNAGEGFSKSuperiorSuperiorSuperiorOPERATING FREQUENCY2.660Bm for Remote ControlSuperiorSuperiorSuperiorOPERATING FREQUENCY2.660Bm for Remote ControlSuperiorSuperiorSuperiorOPERATING FREQUENCY2.660Bm for Remote ControlSuperiorSuperiorSuperiorOPERATING FREQUENCYCarSuperiorSuperiorSuperiorSuperiorOPERATING FREQUENCYCafe Adom superiorSuperiorSuperiorSuperiorSuperiorOPERATING FREQUENCYCafe Adom superiorSuperiorSuperiorSuperiorSuperiorOPERATING FREQUENCYCafe Adom superiorSuperiorSuperiorSuperiorSuperiorOPERATING FREQUENCYCafe Adom superiorSuperiorSuperiorSuperiorSuperiorOPERATING FREQUENCYCafe Adom superiorSuperiorSuperiorSuperior <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
ADDITIONAL MODEL 20703, 20704, 20705 NOMINAL VOLTAGE Remote control: DC 3V(1.5V*AAA*2) from battery Car: DC 3.7V from battery Charging: DC 5V from USB host unit OPERATING VOLTAGE RANGE Remote Control Vnom= 3V Vmin= 2.55V Vmax= 3V OPERATING TEMPERATURE RNAGE 0 ~ +40°C Vnom= 3.7V Vmin= 3.15V Vmax= 3.7V OPERATING TEMPERATURE RNAGE 0 ~ +40°C 0 ~ +40°C Vmin= 2.55V Vmax= 3.7V OPERATING FREQUENCY 2407MHz~2471MHz 2407MHz~2471MHz Vmax= 3.7V OPERATING FREQUENCY 2407MHz~2471MHz 266dBm for Remote Control 0.22dBm for Car ANTENNA TYPE Wire Antenna, with 0dBi gain (Remote control) Wire Antenna, with 0dBi gain (Car) Vire Antenna, with 0dBi gain (Car)	PRODUCT	SPORTS/BUILD 2 DRIVE MIGHTY MONSTER/ BUILD 2					
NOMINAL VOLTAGE Remote control: DC 3V(1.5V*AAA*2) from battery Car: DC 3.7V from battery Charging: DC 5V from USB host unit OPERATING VOLTAGE RANGE Remote Control Vnom= 3V Vmin= 2.55V Vmax= 3V OPERATING TEMPERATURE RNAGE 0 ~ +40°C Vnom= 3.7V Vmin= 3.15V Vmax= 3.7V OPERATING TEMPERATURE RNAGE GFSK 0 ~ +40°C State State State MODULATION TYPE GFSK 2.66dBm for Remote Control State State State State EIRP (MAX) Wire Antenna, with 0dBi gain (Remote control) Wire Antenna, with 0dBi gain (Car) State St	MODEL NO.	20700 (inclu	ding 2070	1, 207	'02)		
NOMINAL VOLTAGECar: DC 3.7V from battery Charging: DC 5V from USB host unitOPERATING VOLTAGE RANGERemote ControlVnom= 3VVmin= 2.55VVmax= 3VOPERATING TEMPERATURE RNAGE0 ~ +40°CVnom= 3.7VVmin= 3.15VVmax= 3.7VOPERATING TEMPERATURE RNAGE0 ~ +40°C0 ~ +40°CVmin= 2.55VVmax= 3.7VMODULATION TYPEGFSK0 ~ +40°CVmin= 2.55VVmax= 3.7VOPERATING FREQUENCY2407MHz~2471MHzVmin= 2.55VVmax= 3.7VEIRP (MAX)GFSK2407MHz~2471MHzVmin= 2.55VVmax= 3.7VANTENNA TYPE2.66dBm for Remote Control 0.22dBm for CarVmin= 3.15VVmax= 3.7VANTENNA TYPECharger cable: Unshielded, Non-detachable, 35cm (20701)	ADDITIONAL MODEL	20703, 2070	4, 20705				
OPERATING VOLTAGE RANGEControlVnom= 3VVmin= 2.55VVmax= 3VCarVnom= 3.7VVmin= 3.15VVmax= 3.7VOPERATING TEMPERATURE RNAGE0 ~ +40°CVmin= 3.15VVmax= 3.7VMODULATION TYPE0 ~ +40°C0 ~ +40°CVmin= 3.15VVmax= 3.7VMODULATION TYPEGFSK0 ~ +40°CVmin= 2.55VVmax= 3.7VOPERATING FREQUENCY2407MHz~2471MHzVmin= 2.55VVmax= 3.7VEIRP (MAX)2407MHz~2471MHz2.66dBm for Remote Control0.22dBm for CarANTENNA TYPEWire Antenna, with 0dBi gain (Remote control) Wire Antenna, with 0dBi gain (Car)Vmax= 3.7VCARLE SUPPLIEDCharger cable: Unshielded, Non-detachable, 35cm (20701)	NOMINAL VOLTAGE	Car: DC 3.7	V from bat	tery	,	battery	
CarVnom= 3.7VVmin= 3.15VVmax= 3.7VOPERATING TEMPERATURE RNAGE0 ~ +40°C0 ~ +40°CVmax= 3.7VMODULATION TYPEGFSKGFSKVmax= 3.7VOPERATING FREQUENCY2407MHz~2471MHzVmax= 3.7VEIRP (MAX)2407MHz~2471MHzVmax= 3.7VEIRP (MAX)2407MHz~2471MHzVmax= 3.7VANTENNA TYPE2.66dBm for Remote Control 0.22dBm for CarVmax= 3.7VANTENNA TYPEVire Antenna, with 0dBi gain (Remote control) Wire Antenna, with 0dBi gain (Car)Vmax= 3.7VCARLE SUPPLIEDCharger cable: Unshielded, Non-detachable, 35cm (20701)			Vnom= 3'	V	Vmin= 2.55V	Vma	x= 3V
RNAGE0 ~ +40°CMODULATION TYPEGFSKOPERATING FREQUENCY2407MHz~2471MHzEIRP (MAX)2.66dBm for Remote Control0.22dBm for Car0.22dBm for CarANTENNA TYPEWire Antenna, with 0dBi gain (Remote control) Wire Antenna, with 0dBi gain (Car)CARLE SUPPLIEDCharger cable: Unshielded, Non-detachable, 35cm (20701)	RANGE	Car	Vnom= 3	.7V	Vmin= 3.15V	Vma	x= 3.7V
OPERATING FREQUENCY 2407MHz~2471MHz EIRP (MAX) 2.66dBm for Remote Control 0.22dBm for Car 0.22dBm for Car ANTENNA TYPE Wire Antenna, with 0dBi gain (Remote control) Wire Antenna, with 0dBi gain (Car) Charger cable: Unshielded, Non-detachable, 35cm (20701)		0 ~ +40°C					
EIRP (MAX) 2.66dBm for Remote Control 0.22dBm for Car 0.22dBm for Car ANTENNA TYPE Wire Antenna, with 0dBi gain (Remote control) Wire Antenna, with 0dBi gain (Car) Wire Antenna, with 0dBi gain (Car) CABLE SUPPLIED Charger cable: Unshielded, Non-detachable, 35cm (20701)	MODULATION TYPE	GFSK					
EIRP (MAX) 0.22dBm for Car ANTENNA TYPE Wire Antenna, with 0dBi gain (Remote control) Wire Antenna, with 0dBi gain (Car) Wire Antenna, with 0dBi gain (Car) CABLE SUPPLIED Charger cable: Unshielded, Non-detachable, 35cm (20701)	OPERATING FREQUENCY	2407MHz~2	471MHz				
0.22dBm for Car ANTENNA TYPE Wire Antenna, with 0dBi gain (Remote control) Wire Antenna, with 0dBi gain (Car) CABLE SUPPLIED Charger cable: Unshielded, Non-detachable, 35cm (20701)		2.66dBm for Remote Control					
ANTENNA TYPEWire Antenna, with 0dBi gain (Car)CARLE SUPPLIEDCharger cable: Unshielded, Non-detachable, 35cm (20701)		0.22dBm for Car					
	ANTENNA TYPE	• • • • • • • • • • • • • • • • • • •					
	CABLE SUPPLIED						
RECEIVER CATEGORY Category 1 Category 2 Category 3		□Category 1 □Category 2 ⊠Category 3					

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

- 2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2309WDG0163) for detailed product photo.
- 4. The main test model 20700 contains two sub-models, 20701 and 20702, which differ only in appearance of the car. Additional model 20703, 20704, 20705 are identical with the main test

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model 20700 except the shell, underside of the car, the length of the charger cable and model number for trading purpose. Therefore, the main test model 20701 is fully tested.

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2.2 **DESCRIPTION OF TEST MODES**

SAMPLE	MODE	FREQUENCY
Remote Control	Transmitting/ Receiving	2407MHz-2471MHz
Car	Transmitting/ Receiving	2407MHz-2471MHz

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2407	2	2423	3	2425
4	2427	5	2429	6	2439
7	2447	8	2449	9	2451
10	2453	11	2461	12	2466
13	2468	14	2471		

Channel	Freq. (MHz)
Low	2407
Middle	2439
High	2471

Note: The more detailed channel, please refer to the product specifications

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2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product, according to the specifications of the manufacturers; it must comply with the requirements of the following standards:

EN 300 440 V2.2.1 (2018-07)

All test items have been performed and recorded as per the above standards.

2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit without any other necessary accessories or support units.

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3 TEST TYPES AND RESULTS

TRANSMITTER PARAMETERS

3.1 EQUIVALENT ISOTROPIC RADIATED POWER

3.1.1 LIMITS OF EQUIVALENT ISOTROPIC RADIATED POWER

Condition	Limit (e.i.r.p)	
Generic use	10 mW e.i.r.p.	

For Extreme temperature ranges:

Category	Temperature range	The EUT Category
I (General)	-20°C to +55°C	_
II (Portable)	-10°C to +55°C	-
III (Equipment for normal indoor use)	5°C to +35°C	-
Other (Declared by the manufacturer)	0°C to +40°C	\checkmark

3.1.2 TEST PROCEDURES

Refer to chapter 4.2.2.3 of EN 300 440 V2.2.1 (2018-07).

3.1.3 DEVIATION FROM TEST STANDARD

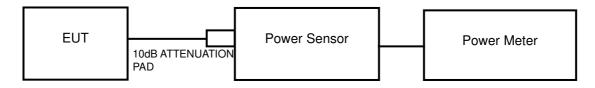
No deviation.

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3.1.4 TEST SETUP

- 1. Ran a test program to control EUT transmit at specific channel
- 2. A power meter was used to read the response of the power sensor.
- 3. Record the power level.
- 4. EIRP = antenna gain + power level of step 3.



The -6dB bandwidth is less than 20 MHz, so determine the appropriate method of measurement: see clauses 4.2.2.3.1

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3.1.5 TEST RESULTS

Remote Control

		EQUIVALENT ISOTROPIC RADIATED POWER (dBm)			
TEST CONDITION		(Low) 2407MHz	(Middle) 2439MHz	(High) 2471MHz	
T _{nom} (°C)	+25	V _{nom} (v)	1.76	2.15	2.32
Tute(°C)	T _{min} (°C) 0	$V_{min}(v)$	2.10	2.29	2.66
I min(C)		0	$V_{max}(v)$	2.12	2.30
T _{max} (°C)	+40	$V_{min}(v)$	1.55	2.00	1.81
I max(C)		+40	$V_{max}(v)$	1.55	1.98

Car

		EQUIVALENT ISOTROPIC RADIATED POWER (dBm)			
TEST CONDITION		(Low) 2407MHz	(Middle) 2439MHz	(High) 2471MHz	
T _{nom} (°C)	+25	$V_{\text{nom}}(v)$	-0.39	-0.32	-0.12
T _{min} (°C)	T _{min} (°C) 0	$V_{min}(v)$	-0.05	-0.18	0.22
T min(C)	0	$V_{max}(v)$	-0.03	-0.17	0.20
T _{max} (°C)) +40	$V_{min}(v)$	-0.60	-0.47	-0.63
$\operatorname{max}(\mathbb{C})$		$V_{max}(v)$	-0.60	-0.49	-0.60

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3.2 PERMITTED RANGE OF OPERATING FREQUENCIES

3.2.1 LIMITS OF PERMITTED RANGE OF OPERATING FREQUENCIES

The width of the power envelope is $f_H - f_L$ for a give operating frequency. In equipment that allow adjustment or selection of different frequencies, the power envelope take up different positions in the allowed band. The frequency range is determined by the lowest value of f_L and the highest value of f_H resulting from the adjustment of the equipment to the lowest and highest operating frequency.

CONDITION	LIMIT	
	$F_L>2400.0MHz$	
Under all test conditions	F _H < 2483.5MHz	

3.2.2 TEST PROCEDURES

Refer to chapter 4.2.3.3 of EN 300 440 V2.2.1 (2018-07).

3.2.3 DEVIATION FROM TEST STANDARD

No deviation.

3.2.4 TEST SETUP

The EUT and probe antenna were placed into the temperature oven. The probe has to be connected with spectrum analyzer. The power source of the EUT has to be connected with the power supply for voltage change. The frequency has to be recorded for the right and left end above threshold of highest and lowest channel respectively.



3.2.5 TEST RESULTS

Remote Control

	TEST CONDITION		FREQUEN	ICY (MHz)
			LOWEST	HIGHEST
T _{nom} (°C)	+25	V _{nom} (v)	2406.51	2471.40
$\mathbf{T} \cdot (^{\circ}C)$	T _{min} (℃) 0	V _{min} (v)	2406.47	2471.50
T min(C)		V _{max} (v)	2406.50	2471.52
T (°C)	+40	V _{min} (v)	2406.60	2471.33
T _{max} (°C)		V _{max} (v)	2406.55	2471.32
Measured frequency (lowest and highest)		FL = 2406.47	FH = 2471.52	

Car

TEST CONDITION		FREQUEN	ICY (MHz)	
	TEST CONDITION		LOWEST	HIGHEST
T _{nom} (°C)	+25	V _{nom} (v)	2406.54	2471.37
$\mathbf{T} \cdot (^{\circ}C)$	0	V _{min} (v)	2406.49	2471.47
T min(C)	T _{min} (℃) 0	V _{max} (v)	2406.52	2471.49
T (°C)	T _{max} (℃) +40	V _{min} (v)	2406.62	2471.30
⊺max(⊂)		V _{max} (v)	2406.57	2471.29
Measured frequency (lowest and highest)		FL = 2406.49	FH = 2471.49	

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3.3 MEASUREMENT RADIATED SPURIOUS EMISSION

3.3.1 LIMITS OF MEASUREMENT RADIATED SPURIOUS EMISSION

Frequency Range	47MHz to 74MHz 87.5MHz to 108MHz 174MHz to 230MHz 470MHz to 862MHz	Other Frequencies Below 1GHz	>1GHz
Limit (Operating)	4nW (–54dBm)	250nW (–36dBm)	1µW (–30dBm)
Limit (Standby)	2nW (–57dBm)	2nW (–57dBm)	20nW (–47dBm)

3.3.2 TEST PROCEDURES

Refer to chapter 4.2.4.3 of EN 300 440 V2.2.1 (2018-07).

3.3.3 DEVIATION FROM TEST STANDARD

No deviation.

3.3.4 TEST SETUP

- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. The test setup has been constructed as the normal use condition. Controlling software (provided by manufacturer) has been activated to set the EUT on specific status.

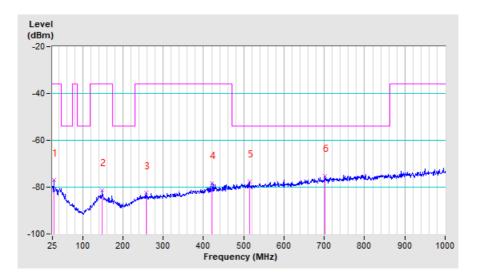


3.3.5 TEST RESULTS

Remote Control: TX BELOW 1GHz DATA

SPURIOUS EMISSION FREQUENCY RANGE	25MHz ~ 1(5Hz	OPERATING CHANNEL	Low

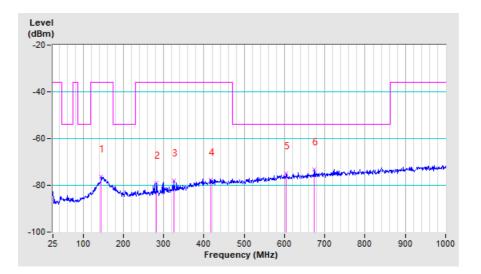
SPURIOUS EMISSION LEVEL					
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)	
28.90	Н	-77.10	-36.00	-41.10	
148.82	Н	-81.37	-36.00	-45.37	
258.02	Н	-82.52	-36.00	-46.52	
421.82	Н	-78.36	-36.00	-42.36	
514.45	Н	-77.49	-54.00	-23.49	
700.67	Н	-75.33	-54.00	-21.33	



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SPURIOUS EMISSI FREQUENCY RANG			OPERATING CHANNEL	Low			
	SPURIOUS EMISSION LEVEL						
Frequency (MHz)	Antenna Polarization	Leve (dBm		Margin (dB)			
144.93	V	-76.1	0 -36.00	-40.10			
282.40	V	-79.0	0 -36.00	-43.00			
325.30	V	-77.98	3 -36.00	-41.98			
416.95	V	-77.5	2 -36.00	-41.52			
604.15	V	-74.9	1 -54.00	-20.91			
674.35	V	-73.13	3 -54.00	-19.13			



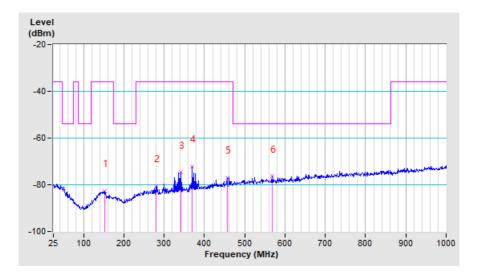
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Car: TX BELOW 1GHz DATA

SPURIOUS EMISSION FREQUENCY RANGE 25MHz ~ 1GHz	OPERATING CHANNEL	Low
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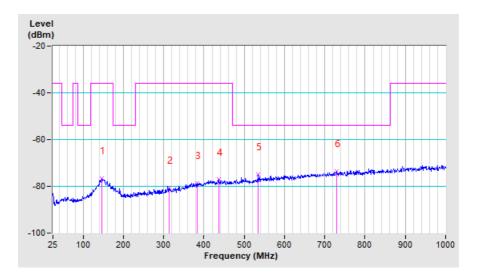
	SPURIOUS EMISSION LEVEL					
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)		
151.75	Н	-82.59	-36.00	-46.59		
280.45	Н	-80.55	-36.00	-44.55		
341.87	Н	-74.71	-36.00	-38.71		
370.15	Н	-72.04	-36.00	-36.04		
455.95	Н	-76.92	-36.00	-40.92		
568.08	Н	-76.43	-54.00	-22.43		



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SPURIOUS EMISSI FREQUENCY RANC		25MHz ~ 1GHz		G CHANNEL	Low	
SPURIOUS EMISSION LEVEL						
Frequency (MHz)	Antenna Polarization	Leve (dBn		Limit (dBm)	Margin (dB)	
146.87	V	-76.5	9	-36.00	-40.59	
313.60	V	-80.5	3	-36.00	-44.53	
382.82	V	-78.5	2	-36.00	-42.52	
436.45	V	-77.0	6	-36.00	-41.06	
534.92	V	-74.9	7	-54.00	-20.97	
728.95	V	-73.5	5	-54.00	-19.55	



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Remote Control: TX ABOVE 1GHz DATA

SPURIOUS EMISSION FREQUENCY RANGE		OPERATING CHANNEL	Low, High
--------------------------------------	--	----------------------	-----------

SPURIOUS EMISSION LEVEL						
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)	
	4814.00	Н	-41.44	-30.00	-11.44	
Low	4814.00	V	-35.19	-30.00	-5.19	
	7221.00	Н	-46.21	-30.00	-16.21	
	7221.00	V	-41.81	-30.00	-11.81	
	4942.00	Н	-42.46	-30.00	-12.46	
High	4942.00	V	-38.28	-30.00	-8.28	
	7413.00	Н	-47.81	-30.00	-17.81	
	7413.00	V	-45.43	-30.00	-15.43	

Car: TX ABOVE 1GHz DATA

SPURIOUS EMISSION FREQUENCY RANGE	25GHz OPERATING CHANNEL	Low, High
--------------------------------------	----------------------------	-----------

SPURIOUS EMISSION LEVEL						
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)	
	4814.00	Н	-37.97	-30.00	-7.97	
Low	4814.00	V	-38.76	-30.00	-8.76	
	7221.00	Н	-45.62	-30.00	-15.62	
	7221.00	V	-45.80	-30.00	-15.80	
	4942.00	Н	-36.94	-30.00	-6.94	
High	4942.00	V	-36.23	-30.00	-6.23	
	7413.00	Н	-45.01	-30.00	-15.01	
	7413.00	V	-46.94	-30.00	-16.94	

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3.4 DUTY CYCLE (NOT APPLY)

3.4.1 LIMITS OF DUTY CYCLE

Frequency Band	Duty Cycle	Application
2400MHz to 2483.5MHz	No Restriction	Generic use
2400MHz to 2483.5MHz	No Restriction	Detection, movement and alert applications
(a) 2446MHz to 2454MHz	No Restriction	RFID
(b) 2446MHz to 2454MHz	15%	RFID
5725MHz to 5875MHz	No Restriction	Generic use
9200MHz to 9500MHz	No Restriction	Detection, movement and alert applications
9500MHz to 9975MHz	No Restriction	Detection, movement and alert applications
10.5GHz to 10.6GHz	No Restriction	Detection, movement and alert applications
13.4GHz to 14.0GHz	No Restriction	Detection, movement and alert applications
17.1GHz to 17.3GHz	DDA or equivalent techniques	GBSAR detecting and movement and alert applications
24.00GHz to 24.25GHz	No Restriction	Detection, movement and alert applications

3.4.2 TEST PROCEDURES

Refer to chapter 4.2.5.3 of EN 300 440 V2.2.1 (2018-07).

3.4.3 DEVIATION FROM TEST STANDARD

No deviation.

3.4.4 TEST SETUP

The test setup has been constructed as the normal use condition. Controlling software (provided by manufacturer) has been activated to set the EUT on specific status.

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3.4.5 **TEST RESULTS**

This product does not apply.

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RECEIVER PARAMETERS

3.5 ADJACENT CHANNEL SELECTIVITY

3.5.1 LIMITES OF ADJACENT CHANNEL SELECTIVITY

The adjacent channel selectivity of the equipment under specified conditions shall not be less than -30 dBm + k

Receiver category	Limit
1	-30dBm + K

The correction factor, k, is as follows:

 $k = -20\log f - 10\log BW$

Where:

f is the frequency in GHz;

BW is the channel bandwidth in MHz.

The factor k is limited within the following:

-40 dB < k < 0 dB

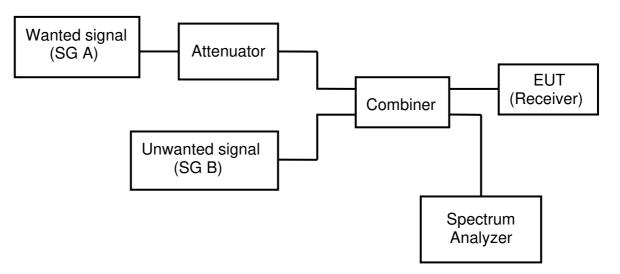
3.5.2 TEST PROCEDURES

Refer to chapter 4.3.3.3 of EN 300 440 V2.2.1 (2018-07).

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3.5.3 TEST SETUP



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3.5.4 TEST RESULTS

This product does not apply.

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3.6 BLOCKING OR DESENSITIZATION

3.6.1 LIMITES OF RECEIVER BLOCKING

The blocking level, shall not be less than the values given in table

Receiver category	Limit
1	-30dBm + K
2	-45dBm + K
3	-60dBm + K

The correction factor, k, is as follows:

 $k = -20\log f - 10\log BW$

Where:

f is the frequency in GHz;

BW is the channel bandwidth in MHz.

The factor k is limited within the following:

-40 dB < k < 0 dB

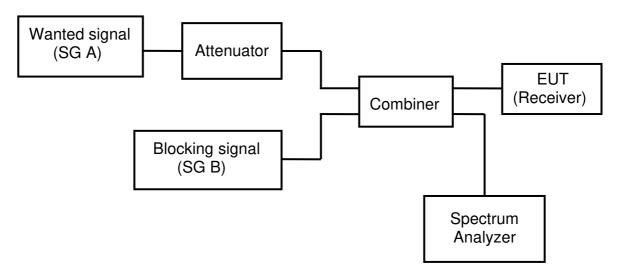
3.6.2 TEST PROCEDURES

Refer to chapter 4.3.4.3 of EN 300 440 V2.2.1 (2018-07).

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3.6.3 TEST SETUP



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3.6.4 TEST RESULTS

Remote Control

Receiver Category 3 Equipment

Blocking measure of the capability								
P _{min} : -74.31dBm								
The actual blockir	The actual blocking signal power (Note)							
	ig signal por				in in	front of the ante	enna	
	Note: For the conducted measurements, the same level should be used at the antenna connector irrespective of antenna gain.							
Operation mode	Operation frequency (MHz)	Wanted signal power (dBm)	Offset of the bandwidth (times)	Blocking signal frequency (MHz)		Blocking signal Power (dBm)	Minimum Limit (dBm)	
	2407		-10		29812 3	-49.64		
			-20		00434 6	-45.39	-66.26	
Normal working		-71.31	-50		12301 5	-46.39		
	2471	71.01	10		49927 3	-52.46		
			20		67727 6	-42.13	-66.42	
			50		21128 5	-43.61		

Notes:

Lower Channel: K=-20logf -10logBW=-6.259047 Upper Channel: K=-20logf -10logBW=-6.417491

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Car

Receiver Category 3 Equipment

Blocking measure of the capability							
P _{min} : -76.38dBm							
The actual blocking signal power (Note)							
	ig signal pow	ver (note)			🗌 in	front of the ante	enna
	Note: For the conducted measurements, the same level should be used at the antenna connector irrespective of antenna gain.						
Operation mode	Operation frequency (MHz)	Wanted signal power (dBm)	Offset of the bandwidth (times)	idth frequency (dBm)		Minimum Limit (dBm)	
	2407 2471	-73.38	-10		.48914 4	-48.62	
Normal working			-20		.36902 8	-43.36	-66.15
			-50	2371	.00868 1	-45.39	
			10	-	.31982 2	-51.9	
			20		.32416 3	-42.13	-66.31
			50		.33718 8	-42.66	

Note:

Lower Channel: K=-20logf -10logBW= -6.15439 Upper Channel: K=-20logf -10logBW= -6.31113

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OCCUPIED BANDWIDTH (FOR REFERENCE)

Remote Control

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)
Low	2407	0.7294
High	2471	0.7294



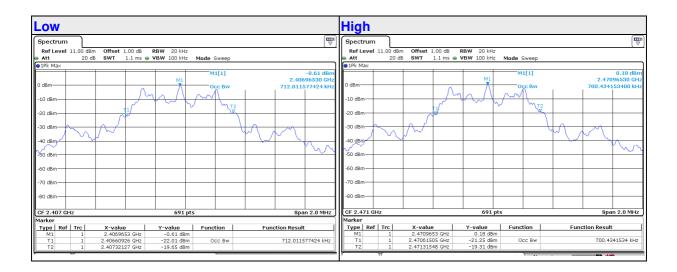
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OCCUPIED BANDWIDTH (FOR REFERENCE)

Car

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)
Low	2407	0.7120
High	2471	0.7004



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3.7 RECEIVER SPURIOUS EMISSIONS

3.7.1 LIMITS OF RECEIVER SPURIOUS EMISSIONS

Frequency range	Frequencies below 1GHz	Frequencies above 1GHz
Limit	2nW or -57dBm	20nW or -47dBm

3.7.2 TEST PROCEDURES

Refer to chapter 4.3.5.3 of EN 300 440 V2.2.1 (2018-07).

3.7.3 DEVIATION FROM TEST STANDARD

No deviation.

3.7.4 TEST SETUP

- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. The test setup has been constructed as the normal use condition. Controlling software (provided by manufacturer) has been activated to set the EUT on specific status.

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3.7.5 TEST RESULTS

Remote Control: RX BELOW 1GHz DATA

SPURIOUS EMISSION FREQUENCY RANGE	251/147 ~ 1(347	OPERATING CHANNEL	Low

	SPURIOUS EMISSION LEVEL					
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)		
145.90	V	-75.38	-57.00	-18.38		
147.85	Н	-82.83	-57.00	-25.83		
369.18	Н	-80.20	-57.00	-23.20		
396.48	V	-77.48	-57.00	-20.48		
423.77	Н	-79.41	-57.00	-22.41		
475.45	V	-77.55	-57.00	-20.55		
539.80	Н	-78.07	-57.00	-21.07		
559.30	V	-75.78	-57.00	-18.78		
638.27	Н	-76.55	-57.00	-19.55		
661.67	V	-74.53	-57.00	-17.53		
707.50	Н	-69.88	-57.00	-12.88		
782.58	V	-72.91	-57.00	-15.91		

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Car: RX BELOW 1GHz DATA

SPURIOUS EMISSION FREQUENCY RANGE	'5N/Hフ~1(iHフ	OPERATING CHANNEL	Low
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	SPURIOUS EMISSION LEVEL					
Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)		
34.75	Н	-79.37	-57.00	-22.37		
144.93	Н	-82.74	-57.00	-25.74		
148.82	V	-76.48	-57.00	-19.48		
205.37	V	-79.10	-57.00	-22.10		
339.93	Н	-81.36	-57.00	-24.36		
394.52	V	-76.72	-57.00	-19.72		
434.50	Н	-79.11	-57.00	-22.11		
533.95	V	-75.19	-57.00	-18.19		
541.75	Н	-77.24	-57.00	-20.24		
576.85	V	-74.98	-57.00	-17.98		
645.10	Н	-75.52	-57.00	-18.52		
744.55	V	-73.00	-57.00	-16.00		

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Remote Control: RX ABOVE 1GHz DATA

SPURIOUS EMISSION LEVEL						
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)	
	4812.00	Н	-48.96	-47.00	-1.96	
Low	4814.00	V	-47.30	-47.00	-0.30	
Low	7221.00	Н	-52.08	-47.00	-5.08	
	7221.00	V	-53.11	-47.00	-6.11	
	4941.00	Н	-49.02	-47.00	-2.02	
Llink	4942.00	V	-49.39	-47.00	-2.39	
High	7413.00	Н	-52.26	-47.00	-5.26	
	7413.00	V	-52.19	-47.00	-5.19	

Car: RX ABOVE 1GHz DATA

SPURIOUS EMISSION FREQUENCY RANGE	OPERATING CHANNEL	Low, High
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SPURIOUS EMISSION LEVEL					
Channel	Frequency (MHz)	Antenna Polarization	Level (dBm)	Limit (dBm)	Margin (dB)
Low	4812.00	V	-47.44	-47.00	-0.44
	4814.00	Н	-51.14	-47.00	-4.14
	7216.00	Н	-51.79	-47.00	-4.79
	7221.00	V	-52.39	-47.00	-5.39
High	4942.00	Н	-49.50	-47.00	-2.50
	4942.00	V	-48.71	-47.00	-1.71
	7413.00	Н	-51.97	-47.00	-4.97
	7413.00	V	-51.39	-47.00	-4.39

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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

REMOTE CONTROL SPURIOUS EMISSION TEST BELOW 1GHz



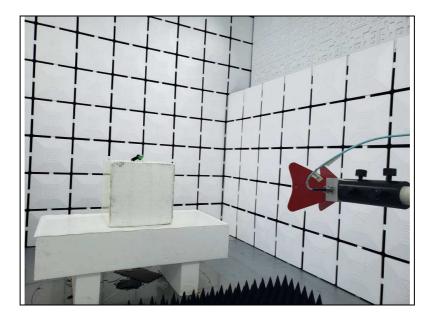


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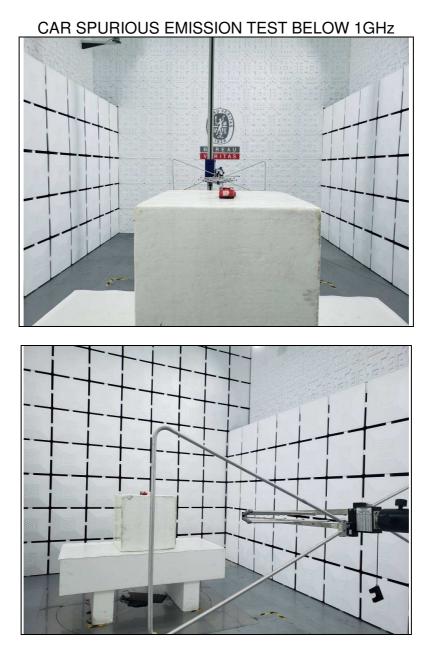
REMOTE CONTROL SPURIOUS EMISSION TEST ABOVE 1GHz



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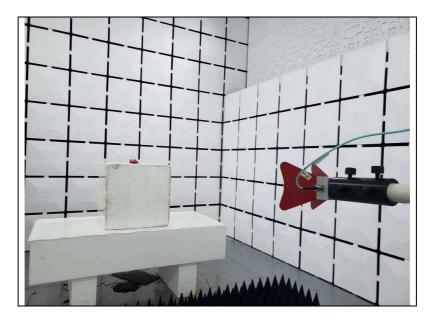


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5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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