

FCC Test Report

Report No.: AGC01559210734FE03

FCC ID	: 2AANZ200B
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: HOVER-1 - SELF-BALANCING SCOOTER
BRAND NAME	: HOVER-1
MODEL NAME	: DSA-200(Series model name please see page 5)
APPLICANT	: DGL Group, Ltd.
DATE OF ISSUE	: Aug. 09, 2021
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0

Attestation of Global Angliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	. /	Aug. 09, 2021	Valid	Initial Release

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195 Raritan Center Parkway Edison, NJ 08837
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HOVER-1 - SELF-BALANCING SCOOTER
HOVER-1
DSA-200
H1-200-21B, H1-200-BLK-21B, H1-200-BLU-21B, H1-200-PNK-21B, H1-200-CAMO-21B, H1-200-GLX-21B, H1-200-GMT-21B, H1-200-IRD-21B, H1-200-XXX-21B, DSA-200-21B, DSA-200-BLK-21B, DSA-200-BLU-21B, DSA-200-PNK-21B, DSA-200-CAMO-21B, DSA-200-GLX-21B, DSA-200-GMT-21B, DSA-200-IRD-21B, DSA-200-XXX-21B, DSA-200-BF21, DSA-200-BF21-XXX, DSA-AH-200-21B, DSA-AH-200-BLK-21B, DSA-AH-200-BLU-21B, DSA-AH-200-PNK-21B, DSA-AH-200-CAMO-21B, DSA-AH-200-GLX-21B, DSA-AH-200-GMT-21B, DSA-AH-200-IRD-21B, DSA-AH-200-XXX-21B, DSA-AH-200-BF21-21B
All the same except for the model name and color
Jul. 23, 2021 to Aug. 09, 2021
No any deviation from the test method
Normal
Pass
AGCRT-US-BR/RF

1. VERIFICATION OF CONFORMITY

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

Prepared By

Eddy Lin

Eddy Liu (Project Engineer)

Aug. 09, 2021

Max Zham

Reviewed By

Max Zhang (Reviewer)

Aug. 09, 2021

Approved By

Lowe

Forrest Lei (Authorized Officer)

Aug. 09, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "HOVER-1 - SELF-BALANCING SCOOTER". It is designed by way of utilizing the GFSK and π /4-DQPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480 GHz
RF Output Power	-1.111dBm (Max)
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, □8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79
Hardware Version	XDL-U3
Software Version	V1.0
Antenna Designation	Chip Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	2dBi
Power Supply	DC 36V by battery or DC 42V by adapter
Note: The EUT doesn't suppo	ort 8DPSK and BLE.

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Frequency Band	Channel Number	Frequency
	0	2402 MHz
G ^O C	。 1	2403 MHz
	38	2440 MHz
2402~2480MHz	39	2441 MHz
	40	2442 MHz
	77	2479 MHz
	78	2480 MHz

2.2. TABLE OF CARRIER FREQUENCYS

2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz, in every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally, the type of connection (e.g. single of multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a hopping sequence in data mode: 40, 21, 44, 23, 04, 15, 66, 56, 19, 78, 07, 28, 69, 55, 36, 45, 05, 13, 43, 74, 57, 35, 67, 76, 02, 34, 54, 63, 42, 11, 30, 06, 64, 25, 75, 48, 17, 33, 58, 01, 29, 14, 51, 72, 03, 31, 50, 61, 77, 18, 10, 47, 12, 68, 08, 49, 20, 00, 73, 09, 16, 60, 71, 41, 24, 53, 38, 26, 46, 37, 65, 32, 70, 52, 27, 59, 22, 62, 39

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2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock.

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24MSB's of the 48BD_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For behavior action with other units only offset is used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bits counter. For the deriving of the hopping sequence the entire. LAP (24 bits),4LSB's(4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer (and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always differ from the first one.

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AANZ200B** filing to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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2.10. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y $\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty	
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$	
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$	
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$	
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$	
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$	
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$	
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$	

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	
1	Low channel GFSK	
2	Middle channel GFSK	
3	High channel GFSK	
4	Low channel π/4-DQPSK	
5	Middle channel π/4-DQPSK	
6	High channel π/4-DQPSK	
7	Hopping mode GFSK	
8	Hopping mode π/4-DQPSK	

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting

FCC Assist 1.0.12 #ロ设置 #ロ设置 #ロ设置 #ロ设置 #ロしてのNED-SELIAL CH34x * #はないのものものものものものものものものものものものものものものものものものものも	
申□设置 (B番[COM2[打开成功) reply data:04 0臣 04 01 01 FC 00 return code: 0x0 敏捷位 ⑤ マ 教徒位 ⑤ マ 和回 文 和回 和回 和回 和回 和回 和回 本 控 文 和回 和回 本 本 文 和回 文 和回 本	
 □ COME (NSB-SERIAL CROST) ○ COME (NSB-SERIAL CROST) ○	
NODE Tx • Channel 0 • Transni Power 10 •	
Facket_Type 1-DHS • Nopping 077 • Data_Types Pn9 •	
Sand configuration	

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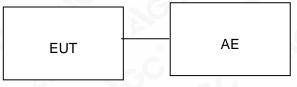
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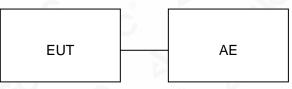
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	HOVER-1 - SELF-BALANCING SCOOTER	DSA-200	2AANZ200B	EUT
2	Control Box	USB-TTL	N/A	AE
3	Adapter	GA09-4200400US	N/A	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd				
Location	I-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China				
Designation Number	CN1259				
FCC Test Firm Registration Number	975832				
A2LA Cert. No.	5054.02				
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA				

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 11, 2021	May 10, 2022
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15,2021	May 14,2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

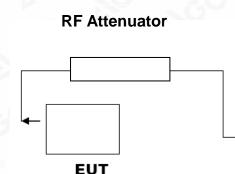
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

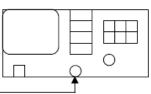
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP







RF Cable

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7.3. LIMITS AND MEASUREMENT RESULT

	Test Data of Conducted Output Power							
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail				
-0	2402	-2.324	≪21	Pass				
GFSK	2441	-1.885	⊴21	Pass				
	2480	-1.987	\$21	Pass				
6	2402	-1.685	⊴21	Pass				
π /4-DQPSK	2441	-1.111	≪21	Pass				
	2480	-1.237	\$21	Pass				

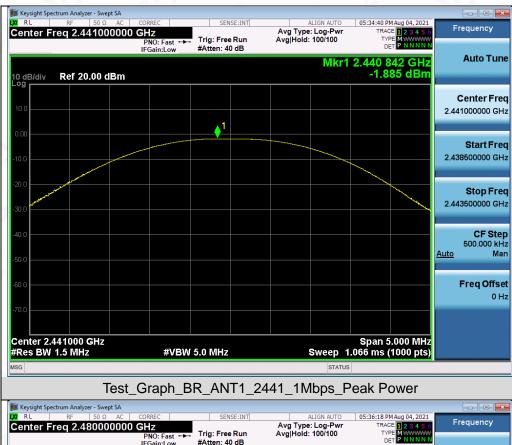
Test Graphs of Conducted Output Power



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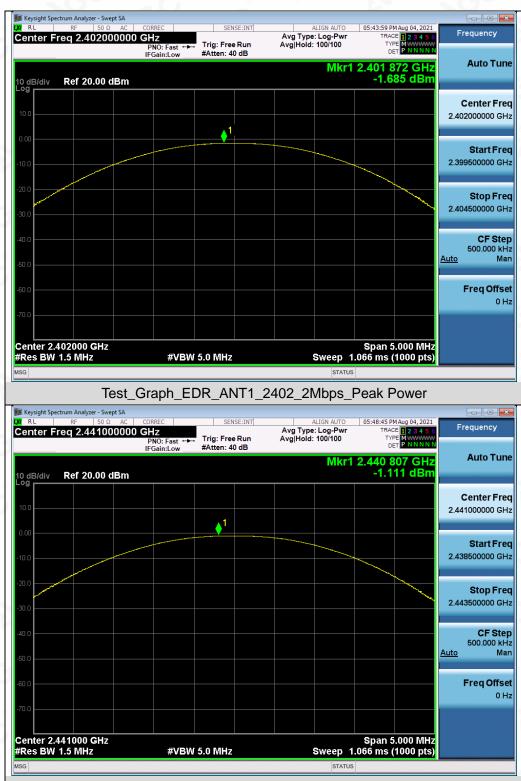




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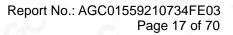
Report No.: AGC01559210734FE03 Page 16 of 70





Test_Graph_EDR_ANT1_2441_2Mbps_Peak Power

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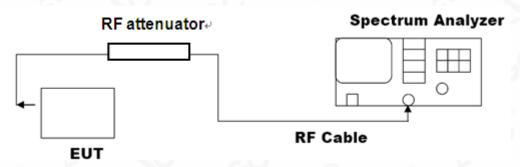


8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



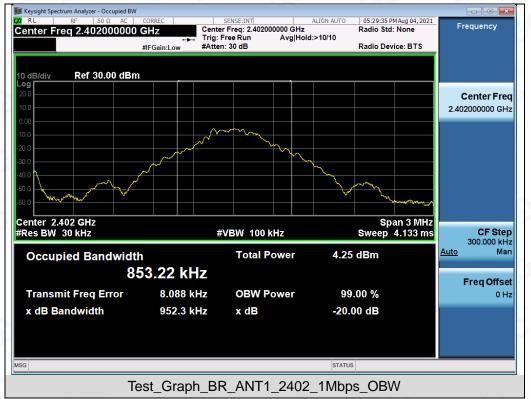
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8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -20dB Bandwidth							
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits	Pass or Fail		
- 9	2402	0.853	0.952	N/A	Pass		
GFSK	2441	0.855	0.953	N/A	Pass		
	2480	0.855	0.951	N/A	Pass		
· · · · · · · · · · · · · · · · · · ·	2402	1.170	1.280	N/A	Pass		
π/4-DQPSK	2441	1.171	1.304	N/A	Pass		
	2480	1.170	1.304	N/A	Pass		

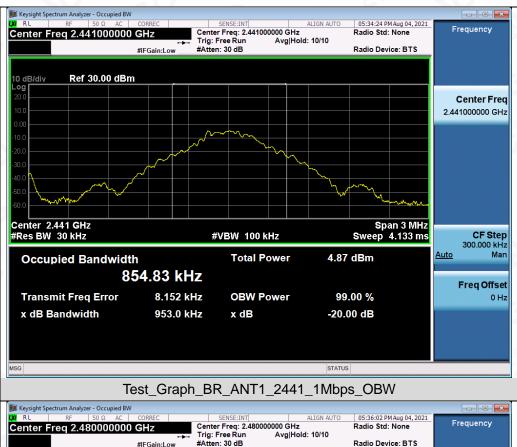
Test Graphs of Occupied Bandwidth and -20 Bandwidth



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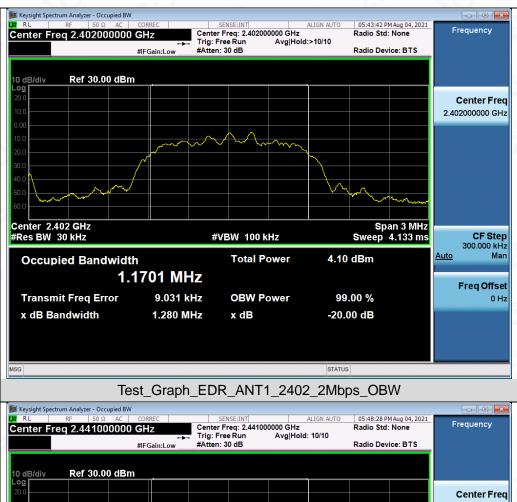


Test_Graph_BR_ANT1_2480_1Mbps_OBW

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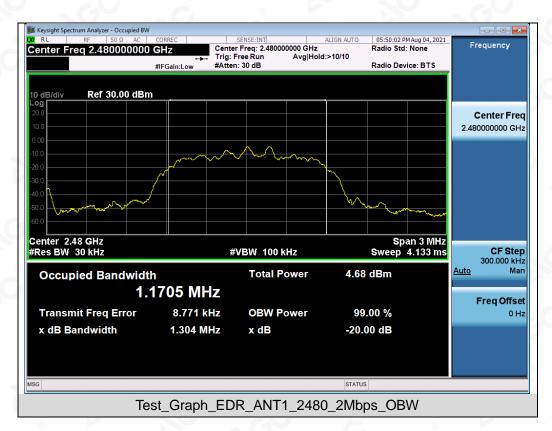
Test Graph EDR ANT1 2441 2Mbps OBW

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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEA	SUREMENT RESULT	
Angliaghta Limita	Measurement Res	ult
Applicable Limits	Test Data	Criteria
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS

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Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

Test_Graph_BR_ANT1_2402_1Mbps_Lower Band Emissions

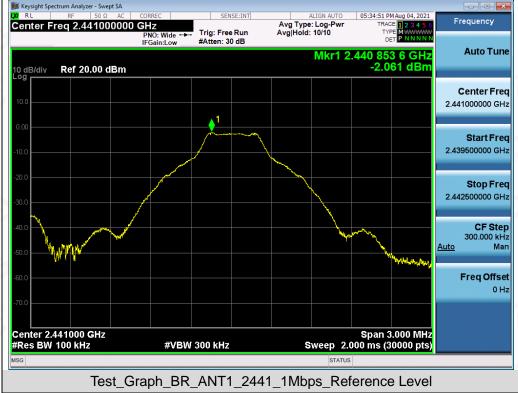
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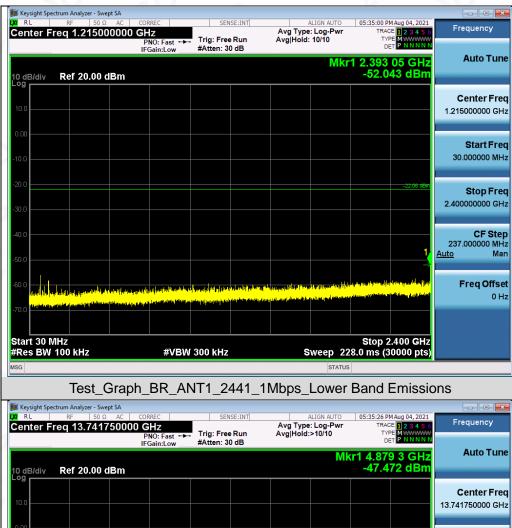
Test_Graph_BR_ANT1_2402_1Mbps_Higher Band Emissions

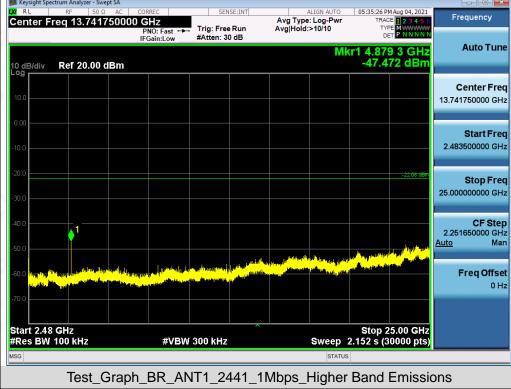


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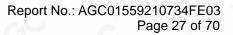
Report No.: AGC01559210734FE03 Page 26 of 70



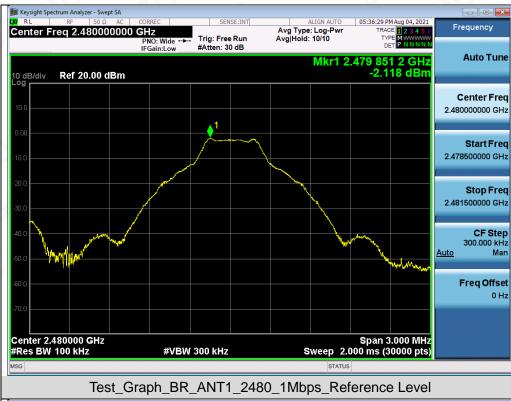


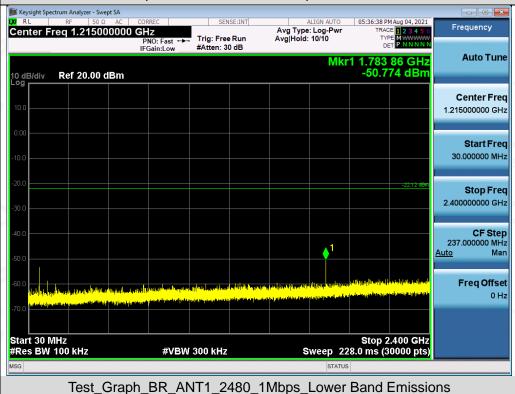


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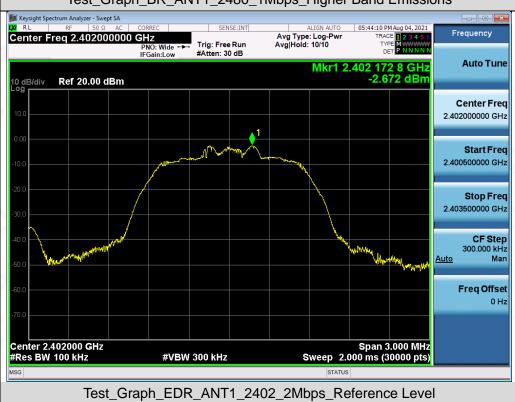
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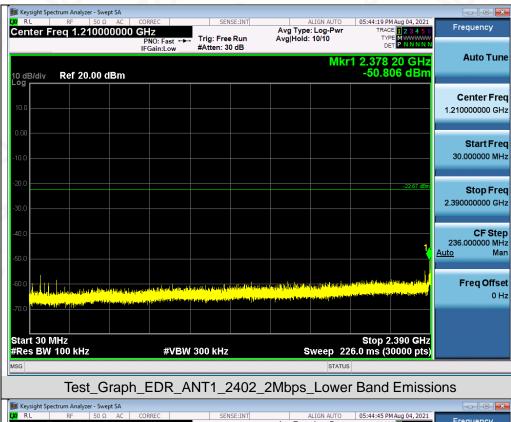




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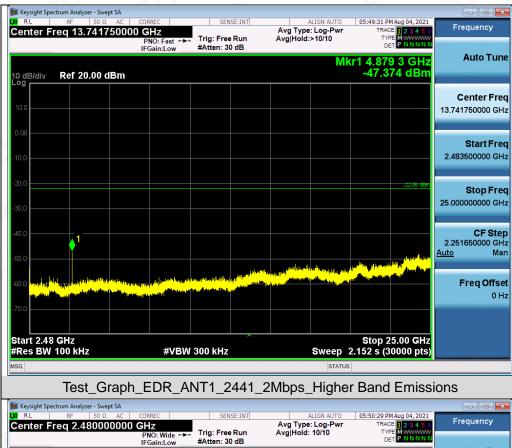


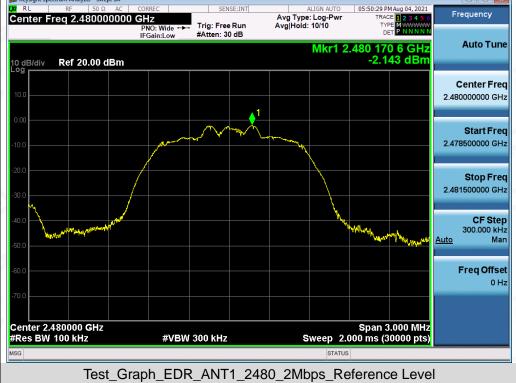
I Keysight Spectrum Analyzer - Swept		SENSE:INT	ALIGN AUTO	05:49:05 PM Aug 04, 2021	
Center Freq 1.215000			Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
0 dB/div Ref 20.00 dB	Im		Mkr	1 2.392 89 GHz -54.014 dBm	Auto Tur
10.0					Center Fre 1.215000000 Gi
10.0					Start Fr 30.000000 Mi
30.0				-22:06 dBm	Stop Fre 2.400000000 GF
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	i kan ang pangang kang pangang	n star a litter produced en statut et de la star de la star Verden star a seconda de la star d		ngha liffy and hita, biland i kitang a dia 1990 lift ng ang ang ang ang ang ang ang ang ang a	Freq Offs 0 F
Start 30 MHz #Res BW 100 kHz	#VBW	300 kHz	Sweep 22	Stop 2.400 GHz 8.0 ms (30000 pts)	

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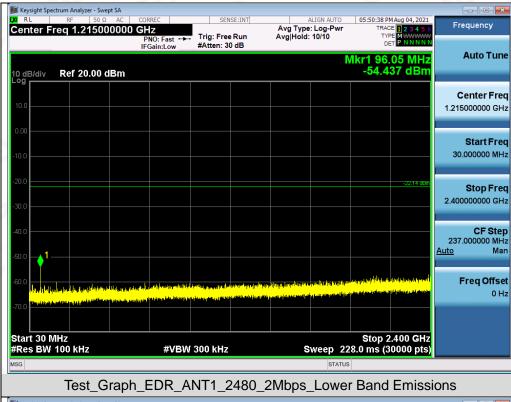


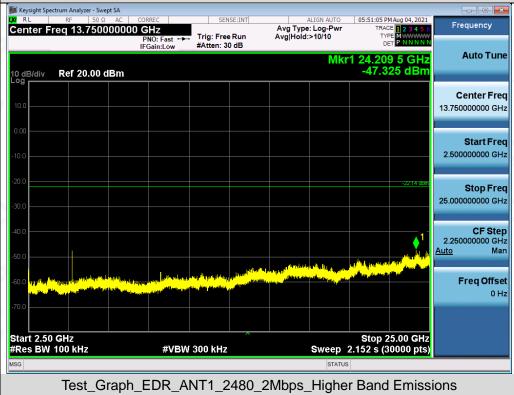


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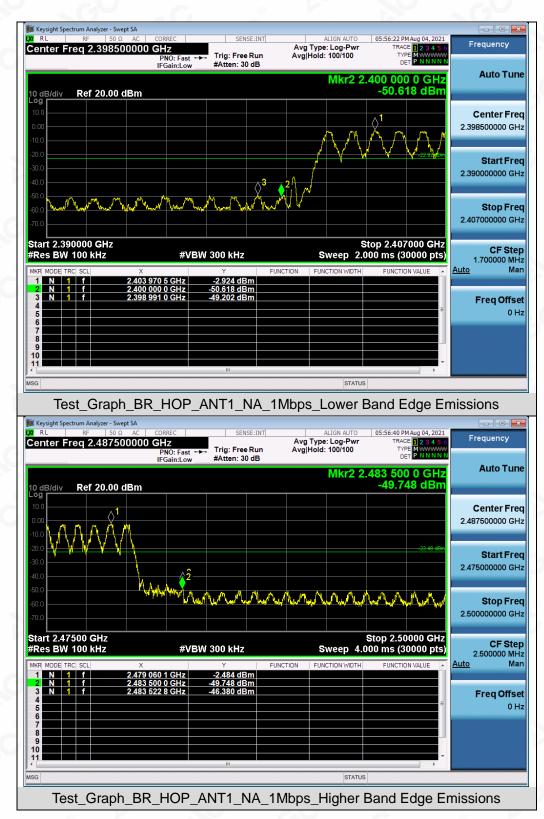


Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

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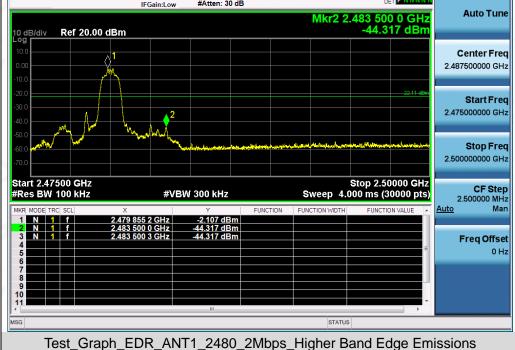


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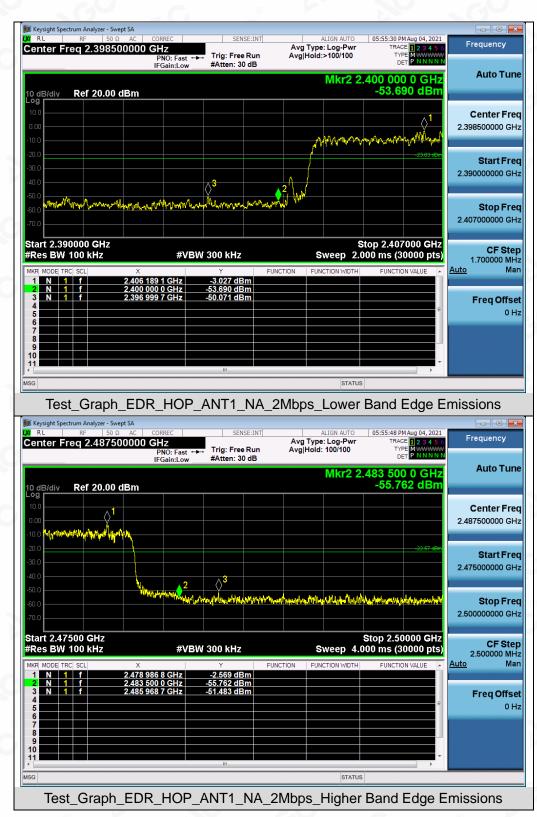




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10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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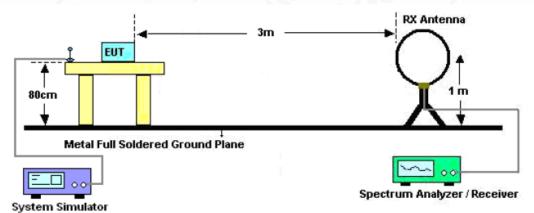
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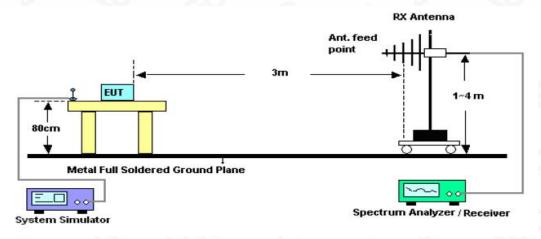


10.2. TEST SETUP

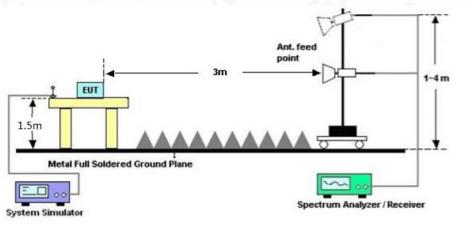
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

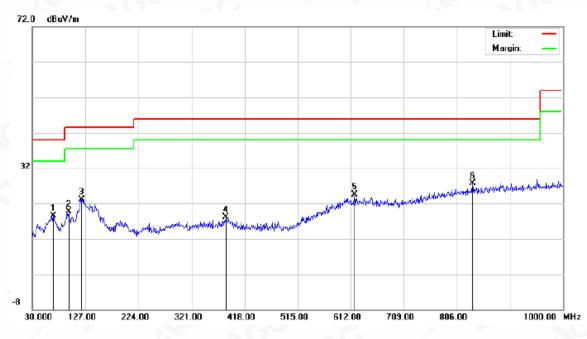
Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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Radiated emission from 30MHz to 1000MHz

EUT	HOVER-1 - SELF-BALANCING SCOOTER	Model Name	DSA-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Horizontal



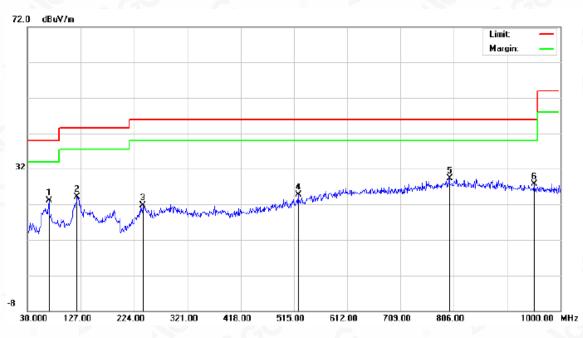
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		67.8299	6.55	11.97	18.52	40.00	-21.48	peak
2		95.9599	9.83	9.79	19.62	43.50	-23.88	peak
3		120.2099	10.07	12.97	23.04	43.50	-20.46	peak
4	;	384.0500	8.17	9.97	18.14	46.00	-27.86	peak
5	(618.7899	7.61	16.80	24.41	46.00	-21.59	peak
6	*	835.1000	7.79	19.87	27.66	46.00	-18.34	peak

RESULT: PASS

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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

EUT	HOVER-1 - SELF-BALANCING SCOOTER	Model Name	DSA-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		68.8000	10.60	12.44	23.04	40.00	-16.96	peak
2		120.2100	11.22	12.97	24.19	43.50	-19.31	peak
3		240.4900	8.04	13.65	21.69	46.00	-24.31	peak
4		522.7600	7.14	17.66	24.80	46.00	-21.20	peak
5	*	797.2700	6.88	22.35	29.23	46.00	-16.77	peak
6		952.4700	6.72	21.07	27.79	46.00	-18.21	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.

2. All test modes had been pre-tested. The mode 5 is the worst case and recorded in the report.

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Radiated emission	above 1GHz
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EUT	HOVER-1 - SELF-BALANCING SCOOTER	Model Name	DSA-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

(dBµV/m) 44.5 37.71	(dBµV/m) 74 54	(dB) -29.5 -16.29	Value Type
37.71	54	16.20	41.10
	÷.	-10.29	AVG
42.59	74	-31.41	peak
34.42	54	-19.58	AVG
6		- 62	- C.
©			
20	©		
		34.42 54	34.42 54 -19.58

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	HOVER-1 - SELF-BALANCING SCOOTER	Model Name	DSA-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	43.49	0.08	43.57	74	-30.43	peak
4804.000	36.26	0.08	36.34	54	·17.66	AVG
7206.000	40.31	2.21	42.52	74	-31.48	peak
7206.000	31.57	2.21	33.78	54	-20.22	AVG
		C.V				
				(R)		

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EUT	HOVER-1 - SELF-BALANCING SCOOTER	Model Name	DSA-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	45.87	0.14	46.01	74	-27.99	peak
4882.000	38.62	0.14	38.76	54	-15.24	AVG
7323.000	41.39	2.36	43.75	74	-30.25	peak
7323.000	34.34	2.36	36.7	54	-17.3	AVG
	9 10	-	0			L GG
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Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	HOVER-1 - SELF-BALANCING SCOOTER	Model Name	DSA-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 5	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
45.64	0.14	45.78	74	-28.22	peak
37.15	0.14	37.29	54	-16.71	AVG
40.42	2.36	42.78	74	-31.22	peak
33.38	2.36	35.74	54	-18.26	AVG
				0	
	0		< CY	- 6	®
	(dBµV) 45.64 37.15 40.42	(dBµV) (dB) 45.64 0.14 37.15 0.14 40.42 2.36	(dBµV) (dB) (dBµV/m) 45.64 0.14 45.78 37.15 0.14 37.29 40.42 2.36 42.78	(dBµV) (dB) (dBµV/m) (dBµV/m) 45.64 0.14 45.78 74 37.15 0.14 37.29 54 40.42 2.36 42.78 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 45.64 0.14 45.78 74 -28.22 37.15 0.14 37.29 54 -16.71 40.42 2.36 42.78 74 -31.22

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	HOVER-1 - SELF-BALANCING SCOOTER	Model Name	DSA-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.85	0.22	47.07	74	-26.93	peak
4960.000	38.62	0.22	38.84	54	-15.16	AVG
7440.000	41.41	2.64	44.05	74	-29.95	peak
7440.000	32.33	2.64	34.97	54	-19.03	AVG
emark:		8		60		8
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			

EUT	HOVER-1 - SELF-BALANCING SCOOTER	Model Name	DSA-200
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 6	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	46.79	0.22	47.01	74	-26.99	peak
4960.000	38.42	0.22	38.64	54	-15.36	AVG
7440.000	40.73	2.64	43.37	74	-30.63	peak
7440.000	31.38	2.64	34.02	54	-19.98	AVG

|Factor = Antenna Factor + Cable Loss Pre-ambilitie

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Level-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

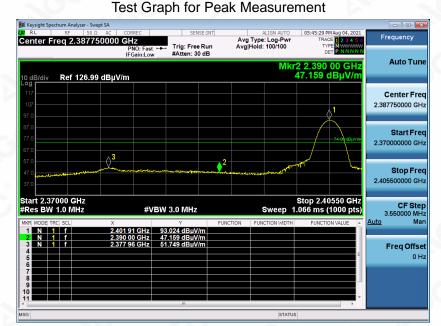
All test modes had been tested. The π /4-DQPSK modulation is the worst case and recorded in the report.

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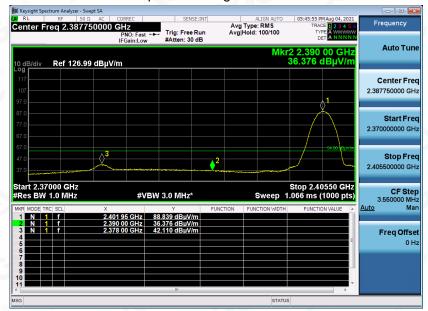


rest result for band edge emission at restricted bands					
EUT	HOVER-1 - SELF-BALANCING SCOOTER	Model Name	DSA-200		
Temperature	25°C	Relative Humidity	55.4%		
Pressure	960hPa	Test Voltage	Normal Voltage		
Test Mode	Mode 4	Antenna	Horizontal		

Test result for band edge emission at restricted bands



Test Graph for Average Measurement



RESULT: PASS

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