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FCC Test Report

Report No.: AGC01628180503FE02

FCC ID	:	2AA9B10
APPLICATION PURPOSE	Ģ	Original Equipment
PRODUCT DESIGNATION	- Tr	BMD-340
BRAND NAME	of Gro	RIGADO
MODEL NAME	:	BMD-340
CLIENT	© .	Rigado, Inc.
DATE OF ISSUE	:	May 30, 2018
STANDARD(S)	no.	FCC Part 15.247
REPORT VERSION		V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version Revise Time		Issued Date	Valid Version	Notes
V1.0		May 30, 2018	Valid	Initial Release

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1. VERIFICATION OF COMPLIANCE

Applicant	Rigado, Inc.
Address	3950 Fairview Industrial Dr SE, STE 100, Salem, Oregon, USA 97302
Manufacturer	Rigado, Inc.
Address	3950 Fairview Industrial Dr SE, STE 100, Salem, Oregon, USA 97302
Product Designation	BMD-340
Brand Name	RIGADO
Test Model	BMD-340
Date of test	May 24, 2018~ May 30, 2018
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BLE/RF
3 1 1 1 1 1	

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.

Tested By

Max 2ha

Max Zhang(Zhang Yi)

May 30, 2018

Reviewed By

BONG Nie

Bart Xie(Xie Xiaobin)

May 30, 2018

Approved By

-owesto in

Forrest Lei(Lei Yonggang) Authorized Officer

May 30, 2018

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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a "BMD-340". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2402~2480MHZ
RF Output Power	4.579dBm(Max)
Modulation	GFSK
Number of channels	40 Channel
Antenna Designation	PCB Antenna
Antenna Gain	-1dBi
Hardware Version	A the first of the state of the
Software Version	V1.0
Power Supply	DC 5V

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
E Alesadoro Colore	0	2402MHZ	
GO		2404MHZ	
2400~2483.5MHZ	The amount of the second of th	20 500	
0 E June Constant	38	2478 MHZ	
GC SC	39	2480 MHZ	

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2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for FCC ID: 2AA9B10 filing to comply with the FCC Part 15.247 requirements.

2.4TEST 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.

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in measurement" (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $Uc = \pm 3.2 dB$
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION				
The terminance 1	Low channel TX				
© 2	Middle channel TX				
3	High channel TX				

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. Both 1Mbps and 2Mbps were evaluated and that 2Mbps was selected as worse case.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM

EUT Support

5.2 EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model	ID	Remark
1	BMD-340	BMD-340	2AA9B10	EUT
2	PC	Mac book Pro	N/A	Support
3	PC adapter	A1278	N/A	Support

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT	
15.247	Peak Output Power	Compliant	
15.247	6 dB Bandwidth	Compliant	
15.247	Conducted Spurious Emission and Band Edges	Compliant	
15.247	Maximum Conducted Output Power Density	Compliant	
15.247&15.209	I5.247&15.209 Radiated Emission		
15.207	Conducted Emission	Compliant	

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
FCC Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 20, 2017	Jun. 19, 2018
LISN	R&S	ESH2-Z5	100086	Aug. 21, 2017	Aug. 20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 20, 2017	Jun. 19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec .08, 2017	Dec. 07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 20, 2017	Sep. 19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep. 15, 2017	Sep. 14, 2018
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	N/A	Mar. 01, 2018	Feb. 28, 2019
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 20, 2017	Jun. 19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2018

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7. PEAK OUTPUT POWER

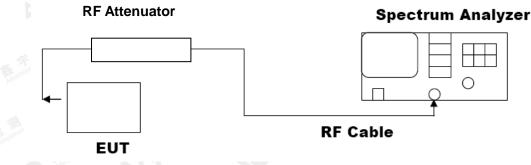
7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 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



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PEAK OUTPUT POWER MEASUREMENT RESULT						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail Pass			
2.402	4.579	30				
2.440	4.305	30	Pass			
2.480	4.110	30	Pass			

LIMITS AND MEASUDEMENT DESLUT 2

			Cł	-10		
Keysight Spectrum A		CORREC	CENCE INT			
Marker 1 2.40			SENSE:INT Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pw Avg Hold:>100/100	r TRACE 123	N N N
10 dB/div Ref	20.00 dBm			MI	kr1 2.401 68 G 4.579 dl	iHz NextPeak Bm
10.0			1			Next Pk Right
-10.0						Next Pk Left
-20.0						Marker Delta
-40.0						Mkr→CF
-60.0						Mkr→RefLvl
-70.0					Onon 10 00 P	More 1 of 2
Center 2.40200 #Res BW 2.4 M		#VBW	8.0 MHz	Sweep	Span 10.00 M 1.000 ms (1001	pts)
MSG				STA		

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ALIGN A 2.439570000000 GHz PNO: Fast Peak Search Avg Type: Log-Pwi Avg|Hold:>100/100 Trig: Free Run Atten: 30 dB **Next Pea** Mkr1 2.439 57 GHz 4.305 dBm 10 dB/div Ref 20.00 dBm Next Pk Right ****1 Next Pk Left Marker Delta Mkr→CF Mkr→Ref Lvi More 1 of 2 Center 2.440000 GHz #Res BW 2.4 MHz Span 10.00 MHz Sweep 1.000 ms (1001 pts) #VBW 8.0 MHz

CH19

CH39 Avg Type: Log-Pwr Avg|Hold:>100/100 Peak Search 1 2.479590000000 GHz Trig: Free Run Atten: 30 dB PNO: Fast 😱 IFGain:Low DE Next Peal Mkr1 2.479 59 GHz 4.110 dBm 10 dB/div Ref 20.00 dBm Next Pk Right Ø Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Center 2.480000 GHz #Res BW 2.4 MHz Span 10.00 MHz Sweep 1.000 ms (1001 pts) #VBW 8.0 MHz STATUS

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8.6 DB 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 SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

	LIMITS AND MEASU	REMENT RESULT					
Auglioskie Lindie	Applicable Limits						
Applicable Limits	Test Data	Criteria					
The man	Low Channel	576.5	PASS				
>500KHZ	Middle Channel	573.1	PASS				
CC FT	High Channel	567.9	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

ALIGN AUTO Center Freq: 2.480000000 GHz Trig: Free Run Avg|Hol #Atten: 10 dB Frequency Radio Std: None Center Frea 2.480000000 GH Avg|Hold:>10/10 Radio Device: BTS #IFGain:Low Ref 20.00 dBm **Center Frea** 2.48000000 GH; Center 2.48 GHz #Res BW 100 kHz Span 5 MHz Sweep 2.4 ms CF Step 500.000 kHz #VBW 300 kHz Mar Auto **Total Power** 9.69 dBm **Occupied Bandwidth** 2.0659 MHz Freq Offse 0 H Transmit Freq Error 19.814 kHz **OBW Power** 99.00 % 567.9 kHz -6.00 dB x dB Bandwidth x dB

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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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.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT						
Annlinghla Limita	Measurement Result					
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 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.	At least -20dBc than the reference level	PASS				

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TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

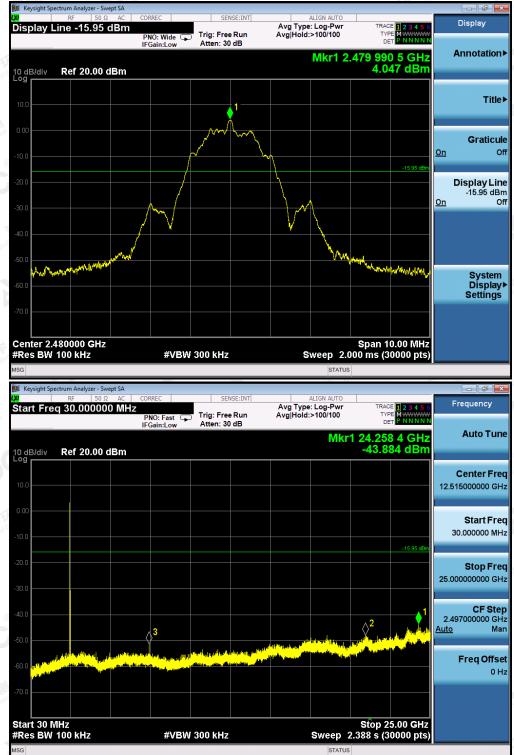
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GFSK MODULATION IN MIDDLE CHANNEL

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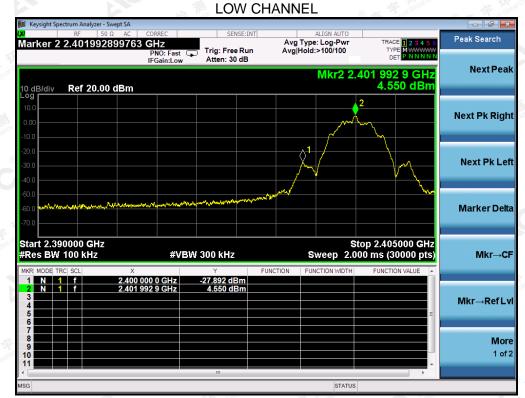
GFSK MODULATION IN HIGH CHANNEL

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Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

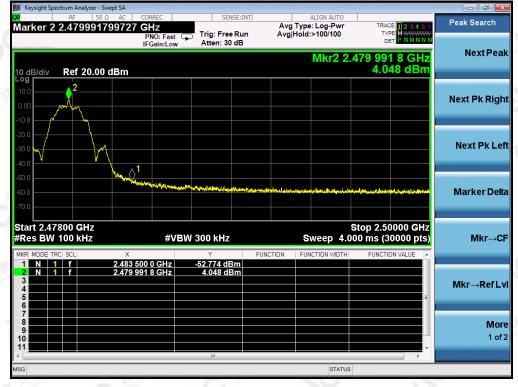
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TEST RESULT FOR BAND EDGE

HIGH CHANNEL



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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 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 SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

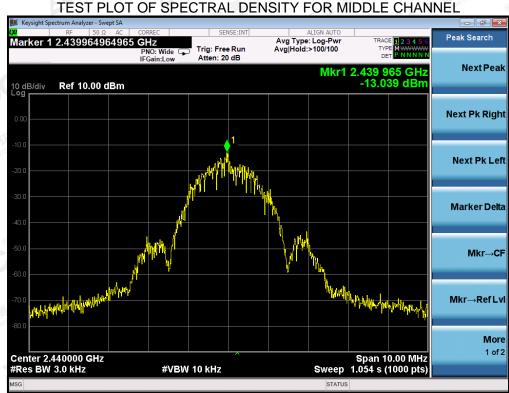
Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	
2M/Low Channel	-12.283	8 6	Pass	
2M/Middle Channel	-13.039	8	Pass	
2M/High Channel	-13.182	8	Pass	

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TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL

The results showed http://www.ago-gett.com.





11. RADIATED EMISSION

11.1. 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 emissions, 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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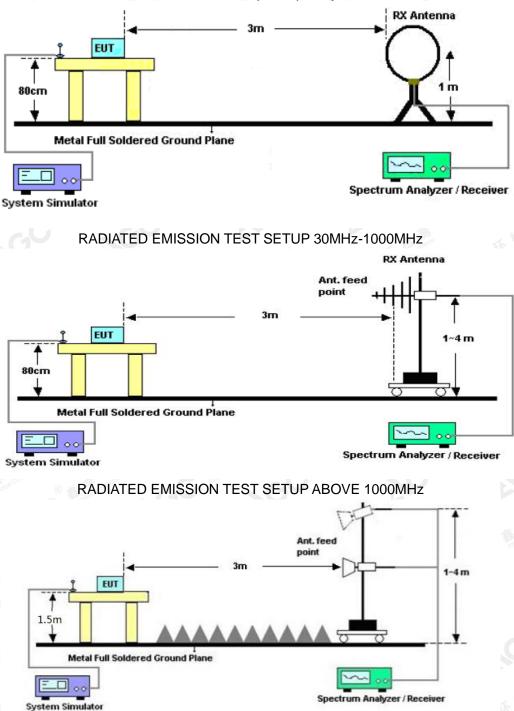


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11.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/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		3		
88~216	150	3		
216~960	200	0 5 3 C		
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.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

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EUT		BMD-340		No. The	Model Nam	е	BMD-340) ^{MCCMM}	
Temperatur	re	25° C	obal Contra	Fon of Global Com	Relative Humidity		55.4%		
Pressure		960hPa	CO Meet		Test Voltage	e	Normal V	/oltage	THE THE
Test Mode		Mode 1	ある	-111	Antenna		Horizonta	al Francisco	Comp
The second	[dB(µ V/m 100)])]						Attestan	G
	90								
	70								
	60 10 10 10 10 10 10								
	ها 1 40								
	30	mur marker	<u>r</u>		الم				
	20 10								
	0								
	3	0 50	100	Frequency		500	1000 [MHz]		
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
67.345	H	12.6	15.1	27.7	40.0	12.3	Pass	150.0	71.9
169.680	of Global Comp	8.1	15.9	24.0	43.5	19.5	Pass	100.0	289.2

23.6

30.2

29.7

37.5

43.5

43.5

46.0

54.0

19.9

13.3

16.3

16.5

Pass

Pass

Pass

Pass

100.0

200.0

200.0

100.0

289.2

336.6

158.9

179.3

RADIATED EMISSION BELOW 1GHZ

RESULT: PASS

191.990

215.755

384.050

985.450

H.

Н

H.

Н

9.9

15.9

9.5

6.5

13.7

14.3

20.2

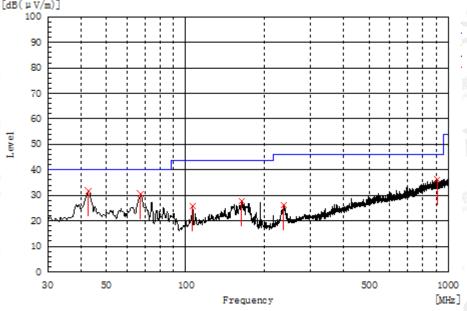
31.0

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EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
42.610	V	14.4	17.4	31.8	40.0	8.2	Pass	100.0	88.8
67.345	V O	15.6	15.1	30.7	40.0	9.3	Pass	100.0	268.4
106.145	v	11.7	14.1	25.8	43.5	17.7	Pass	100.0	195.2
163.375	V	🐀 11.2	16.5	27.7	43.5	15.8	Pass	200.0	70.8
236.125	V Thursday	10.1	16.1	26.2	46.0	19.8	Pass	150.0	71.4
911.730	V	5.8	30.3	36.1	46.0	9.9	Pass	200.0	105.8

RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

RADIATED EMISSION ABOVE 1GHZ

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.023	45.36	7.12	52.48	74	-21.52	peak 🧌
4804.023	40.74	7.12	47.86	54	-6.14	AVG
7206.018	43.02	9.84	52.86	74	-21.14	peak
7206.018	35.16	9.84	45	54	-9	AVG
Front Globe	(R) # FootGlobal	C A tation of C				
Attesta	Allestatu	C Mus				<u> </u>
emark:		2			12 11	The the manance
actor = Ante	enna Factor + Ca	able Loss – I	Pre-amplifier.	43	Alobal Contr	F of Globa
		90°	T As pollar	(B) ALL IND ON	7	and stalle

EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Matan Daadin n					
Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
43.44	7.12	50.56	74	-23.44	peak
40.76	7.12	47.88	54	-6.12	AVG
42.09	9.84	51.93	74	-22.07	peak
37.13	9.84	46.97	54	-7.03	AVG
The completions	The the compliance	B Anno contra	R A	an of Glou	G "
²⁰ Co. 6 3	tallon of Globa	3 minute	C Mer		
	(dBµV) 43.44 40.76 42.09	(dBµV) (dB) 43.44 7.12 40.76 7.12 42.09 9.84	(dBµV) (dB) (dBµV/m) 43.44 7.12 50.56 40.76 7.12 47.88 42.09 9.84 51.93	(dBµV) (dB) (dBµV/m) (dBµV/m) 43.44 7.12 50.56 74 40.76 7.12 47.88 54 42.09 9.84 51.93 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 43.44 7.12 50.56 74 -23.44 40.76 7.12 47.88 54 -6.12 42.09 9.84 51.93 74 -22.07

-actor Antenna H actor

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EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.016	46.05	7.12	53.17	74	-20.83	< peak
4880.016	44.32	7.12	51.44	54	-2.56	AVG 💿
7320.107	41.28	9.84	51.12	74	-22.88	peak
7320.107	33.02	9.84	42.86	54	-11.14	AVG
For Globa	Global Co	C A Hin of Ge				
Attestation	Attestation	Allesu				1002
Remark:					ALL THE	the moliance
actor = Ante	enna Factor + Ca	able Loss – F	re-amplifier.	. 7	that Comp	F Global
		_11111	•			

EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.041	40.39	7.12	47.51	74	-26.49	peak
4880.041	36.95	7.12	44.07	54	-9.93	AVG
7320.015	41.18	9.84	51.02	74	-22.98	peak
7320.015	35.73	9.84	45.57	54	-8.43	AVG
® ##	The stand contra	Flatton of Global	A.C.	C C		
Remark:	60					-mil
actor = Ante	enna Factor + Ca	able Loss –	Pre-amplifier.	the mance	-	Compliance (
			- 600	2. B3 = 011	100 T 10	

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EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Mater Deading	F eeter	Emission Louis	Lindia	Maurin	<u> </u>
Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
46.62	7.12	53.74	74	-20.26	< peak
42.91	7.12	50.03	54	-3.97	AVG 💿
41.59	9.84	51.43	74	-22.57	peak
40.89	9.84	50.73	54	-3.27	AVG
Global Ca	C A Honor Ge				
Attestation	Attest				lin:
				100	the moland
enna Factor + Ca	able Loss – F	Pre-amplifier	1	1 al Compile	F Global Com
	46.62 42.91 41.59 40.89	(dBµV) (dB) 46.62 7.12 42.91 7.12 41.59 9.84 40.89 9.84	(dBµV) (dB) (dBµV/m) 46.62 7.12 53.74 42.91 7.12 50.03 41.59 9.84 51.43 40.89 9.84 50.73	(dBµV) (dB) (dBµV/m) (dBµV/m) 46.62 7.12 53.74 74 42.91 7.12 50.03 54 41.59 9.84 51.43 74 40.89 9.84 50.73 54	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 46.62 7.12 53.74 74 -20.26 42.91 7.12 50.03 54 -3.97 41.59 9.84 51.43 74 -22.57

EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Sactor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB) 🧕	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.086	43.58	7.12	50.7	74	-23.3	peak
4960.086	39.06	7.12	46.18	54	-7.82	AVG
7440.072	41.42	9.84	51.26	74	-22.74	peak
7440.072	38.16	9.84	48	54	-6	AVG
	ASL MORE	The Hampliance	A Coop	0. 8 / 5 - 5	on of Glob	G M
	The Come	Global	Co atation of	Allesi		

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

RESULT: PASS

Note:

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

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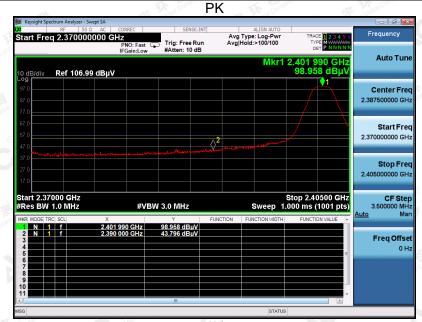


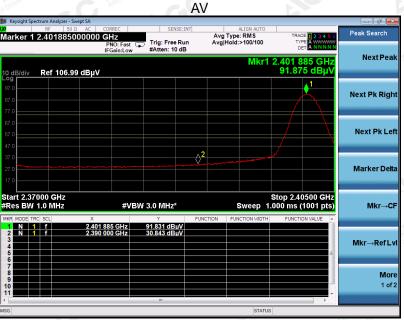


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EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS





RESULT: PASS

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EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
	III PI	K # good Come B # The Class	



AV



RESULT: PASS

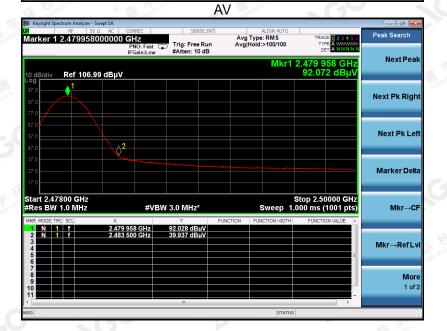
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EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal





RESULT: PASS

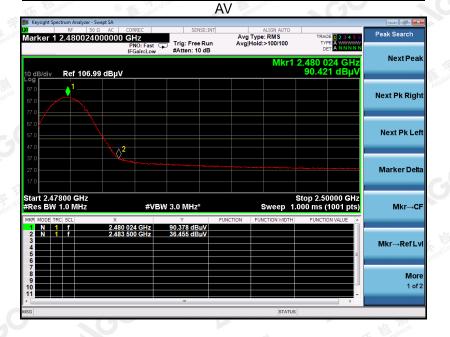
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EUT	BMD-340	Model Name	BMD-340
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

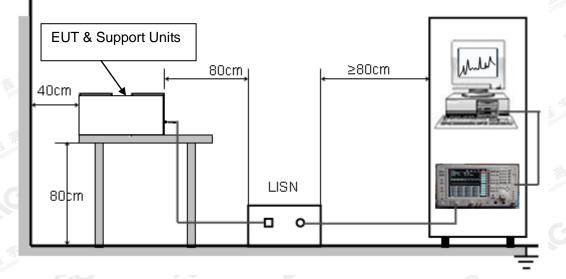
Fromuonou	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	56	46				
5MHz~30MHz	60	50				

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC9V/1A power from a LISN, if any.
- 5. The EUT received DC charging voltage by PC which received 9V/1Azpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

The results spow(bit http://www.agc-gait.com.



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Level [dBuV] 70 60 50 40 30 20 10 0 -10 150k 300k 400k 600k 800k 1M 2M 3M 4M 5M 6M 10M 20M 30M 8M Frequency [Hz]

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000 0.254000 0.322000 0.382000 3.950000 11.026000	48.50 37.00 31.00 28.40 33.40 32.50	10.0 10.1 10.1 10.1 10.1 9.6	64 62 58 56 60	15.9 24.6 28.7 29.8 22.6 27.5	QP QP QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO

MEASUREMENT RESULT:

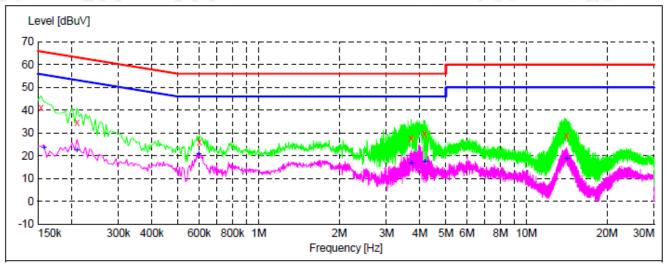
Frequency MHz	Level dBuV	Transd dB		Margin dB	Detector	Line	PE
0.194000	25.50	10.1	54	28.4	AV	L1	FLO
0.254000	21.70	10.1	52	29.9	AV	L1	FLO
0.382000	14.50	10.1	48	33.7	AV	L1	FLO
0.434000	17.50	10.1	47	29.7	AV	ь1	FLO
3.926000	20.80	10.1	46	25.2	AV	L1	FLO
11.158000	24.70	9.6	50	25.3	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT:

Frequency MHz	Level dB uV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.154000	41.30	10.0	66	24.5	QP	N	FLO
0.210000	34.70	10.1	63	28.5	QP	N	FLO
0.602000	25.90	9.9	56	30.1	QP	N	FLO
3.714000	27.60	10.1	56	28.4	QP	N	FLO
4.174000	29.80	10.2	56	26.2	QP	N	FLO
14.090000	28.80	9.7	60	31.2	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.158000	23.60	10.0	56	32.0	AV	N	FLO
0.210000	22.30	10.1	53	30.9	AV	N	FLO
0.598000	20.80	9.9	46	25.2	AV	Ν	FLO
3.714000	16.60	10.1	46	29.4	AV	Ν	FLO
4.174000	17.50	10.2	46	28.5	AV	N	FLO
14.110000	18.80	9.7	50	31.2	AV	N	FLO

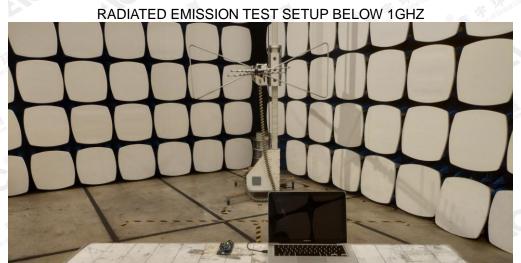
RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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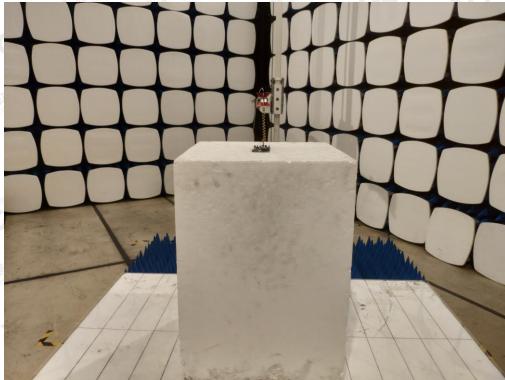
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP ABOVE 1GHZ

42 4



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CONDUCTED EMISSION TEST SETUP

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