

FCC Test Report

Report No.: AGC02762230801FR05

FCC ID : 2AL26-K7-US

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: Body Worn Camera

BRAND NAME : Reveal Media

MODEL NAME : K7

APPLICANT: Reveal Media Limited

DATE OF ISSUE : Jan. 09, 2024

STANDARD(S) : FCC Part 15 Subpart C §15.225

REPORT VERSION: V 1.0

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	/	Jan. 09, 2024	Valid	Initial Release

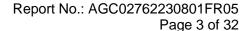
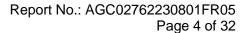




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1. GENERAL INFORMATION

Applicant	Reveal Media Limited
Address Riverview House, 20 Old Bridge Street, Hampton Wick, KT1 4BU, Unite Kingdom	
Manufacturer	Reveal Media Hong Kong Ltd.
Address	6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chai, HongKong
Factory	Reveal Media Hong Kong Ltd.
Address 6/F., Luk Kwok Centre, 72 Gloucester Road, Wan Chai, HongKong	
Product Designation Body Worn Camera	
Brand Name Reveal Media	
Test Model	K7
Deviation from Standard No any deviation from the test method	
Date of Receipt Aug. 03, 2023	
Date of Test	Aug. 03, 2023~Jan. 09, 2024
Test Result Pass	

Prepared By	Bibo Zhang	
	Bibo Zhang (Project Engineer)	Jan. 09, 2024
Reviewed By	Calin Lin	
	Calvin Liu (Reviewer)	Jan. 09, 2024
Approved By	Max Zhang	
	Max Zhang Authorized Officer	Jan. 09, 2024



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2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	EP-VRM04MB-05
Software Version	V1.0
Operation Frequency	13.56MHz
Modulation Type	ASK
Number of channels	1
Field Strength of Fundamental	62.25dBuV/m
Antenna Designation	FPC Antenna
Antenna Gain	0dBi
Power Supply	DC 3.8V 4500mAh by battery of DC 5V by adapter

2.2 TEST FREQUENCY LIST

Frequency Band	Channel Number	Frequency
13.110~14.010 MHz	01	13.56 MHz



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2.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: **2AL26-K7-US**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 TEST METHODOLOGY

The tests were performed according to following standards:

No.	lo. Identity Document Title	
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

2.5 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7 ANTENNA REQUIREMENT

Standard Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antennathat uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a brokenantenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 0dBi.



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3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



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3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS		
Temperature range (°C)	15 - 35	-20 - 50		
Relative humidty range	20 % - 75 %	20 % - 75 %		
Pressure range (kPa)	86 - 106	86 - 106		
Power supply	DC 3.8V	LV DC 3.23/HV DC 4.35V		
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer				

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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 150kHz	$U_c = \pm 4.2 \text{ dB}$
Uncertainty of Radiated Emission below 30MHz	$U_c = \pm 3.8 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
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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3.5 LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 03, 2023	Jun. 02, 2024
LISN	R&S	ESH2-Z5	100086	Jun. 03, 2023	Jun. 02, 2024
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY5347050 4	Jun. 01, 2023	May 31, 2024
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 26, 2022	Sep. 25, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 24, 2023	Sep. 23, 2024
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A



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4.SYSTEM TEST CONFIGURATION

4.1 EUT CONFIGURATION

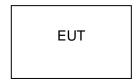
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT EXERCISE

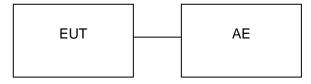
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

☐ Test Accessories Come From The Laboratory

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Huawei adapter	HW-200325CP0	Huawei	Input:100-240V 50/60Hz,1.8A Output:5V 2A	1.0m unshielded

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Battery	IBR036GA	ICON ENERGY SYSTEM (SHENZHEN) CO.,LTD	DC 3.8V 4500mAh	N/A



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4.5 SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	§15.203	Antenna Equipment	Pass
2	15.225(a)(b)(c)	Field Strength of Fundamental	Pass
3	§15.209	Radiated Emission	Pass
4	§15.215(c)	20dB Bandwidth	Pass
5	§15.205(a)	Restricted Bands of Operation	Pass
6	§15.225(e)	Frequency Stability	Pass
7	§15.207	AC Power Line Conducted Emission	Pass



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5. DESCRIPTION OF TEST MODES

Summary table of Test Cases					
Test Item	Data Rate / Modulation				
rest item	NFC/ ASK				
Radiated&Conducted Test Cases	Mode 1: Tx _13.56 MHz				
AC Conducted Emission	Mode 2: Tx _13.56 MHz				

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. The battery is full-charged during the test.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.



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6. FIELD STRENGTH OF FUNDAMENTAL

6.1 PROVISIONS APPLICABLE

Rules and specifications	FCC CFR 47 Part 15 section 15.225					
Description	Compliance v	vith the spectrum ma	sk is tested with RBV	V set to 9kHz.		
Freq. of Emission (MHz)	Field Strength (µV/m) at 30m	Field Strength (dBµV/m) at 30m	Field Strength (dBµV/m) at 10m	Field Strength (dBµV/m) at 3m		
1.705~13.110	30	29.5	48.58	69.5		
13.110~13.410	106	40.5	59.58	80.5		
13.410~13.553	334	50.5	69.58	90.5		
13.553~13.567	15848	84.0	103.08	124.0		
13.567~13.710	334	50.5	69.58	90.5		
13.710~14.010	106	40.5	59.58	80.5		
14.010~30.000	30	29.5	48.58	69.5		

6.2 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



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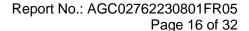
pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

- 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.

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
Start ~Stop i requerity	1MHz/3MHz for Peak, 1MHz/3MHz for Average

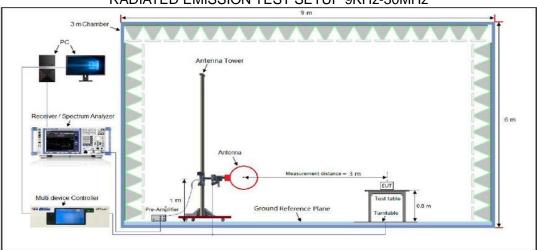
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



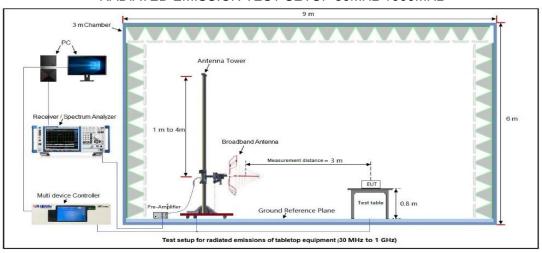


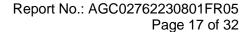
6.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)

RADIATED EMISSION TEST SETUP 9KHz-30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz







6.4 MEASUREMENT RESULTS

EUT	Body Worn Camera	Model Name	K7	
Temperature	25° C	Relative Humidity	55.4% DC 3.8V by battery Face	
Pressure	960hPa	Test Voltage		
Test Mode	Mode 1	Antenna		
132.0 dBuV/m			Limit: ————————————————————————————————————	
72				

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		12.9778	11.19	24.60	35.79	69.50	-33.71	peak
2		13.5640	37.61	24.64	62.25	124.0	-61.75	peak
3	*	14.0937	11.23	24.68	35.91	69.50	-33.59	peak

13.56

13.76

13.96

14.16

14.56

RESULT: PASS

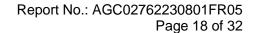
12.560

12.76

12.96

13.16

13.36





EUT		Body W	/orn Camera		Model Na	ame	K7	
emperatu	ire	25° C			Relative	Humidity	55.4	%
Pressure 960			a		Test Volt	Test Voltage		.8V by batter
est Mode		Mode 1			Antenna	Antenna		
132.0	dBuV/m						Limit:	1
							Margin	n:
					_			
72]				
]	2				
	interpretation	1	maring the state of the state o	market limbrar	harmonia alleratura de contractor	من بالاينيالاين	3 Market Market	and the second second
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12.0								
L.	.560 12.76	12.96	13.16 13.36	13.56	13.76 13.	96 14.10	G	14.56 MHz
			Reading	Correct	Measure-			
	No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	No. Mk.	Freq.					Over	Detector
	No. Mk.	<u> </u>	Level	Factor	ment	Limit		Detector peak
		MHz	Level dBuV	Factor dB	ment dBuV/m	Limit dB/m	dB	

RESULT: PASS



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7. RADIATED EMISSION

7.1 LIMITS OF RADIATED EMISSION TEST

According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

15.209 Limit in the below table has to be followed:

Frequency	Distance	Field Strengths Limit		
(MHz)	Meters	μ V/m	dB(μV)/m	
0.009 ~ 0.490	300	2400/F(kHz)		
0.490 ~ 1.705	30	24000/F(kHz)		
1.705 ~ 30	30	30		
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	3	200	46.0	
960 ~ 1000	3	500	54.0	
Above 1000	3	74.0 dB(μV)/n 54.0 dB(μV)/n	•	

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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

7.2 MEASUREMENT PROCEDURE

- 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



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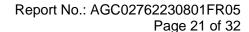
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.

- 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.
- 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.

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
Start ~Stop Frequency	1MHz/3MHz for Peak, 1MHz/3MHz for Average

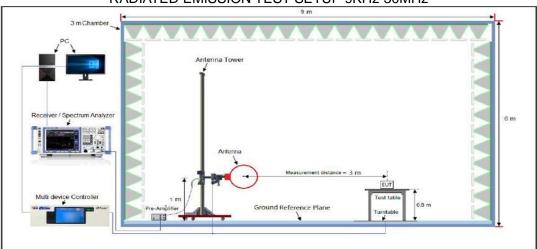
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



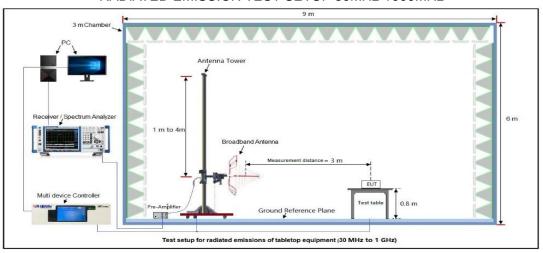


7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)

RADIATED EMISSION TEST SETUP 9KHz-30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz





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7.4 MEASUREMENT RESULT

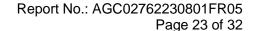
RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION FROM 30MHz ~1000MHz

		RAD	NATED EN	IISSION FRO	M 30MHz ~	1000MHz			
EUT		Body W	orn Came	ra	Model N	ame	K7	K7	
Tempera	iture	25° C	•						
Pressure	9	960hPa				age	DC 3.8	DC 3.8V by battery	
Test Mod	de	Mode 1			Antenna		Horizo	Horizontal	
130,				FCC PART	15C				
	120								
	110								
	90								
7	80								
Level[dBµV/m]	70 60								
-evel[d	50								
_	40						5		
	20	, *1	* 2 * ********************************	\	PM .	John Mary Mary Mary Mary Mary Mary Mary Mary	the same on	Element The second	
	10		~ ~		myandra andamaran				
	0								
	-10 30M		100M			ı		1G	
	— QP Limit	Horizontal PK		Frequency[Hz]				
	# QP Detecto	r							
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity	
140.	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	1 Glarity	
1	56.19	24.00	12.21	40.00	16.00	100	340	Horizontal	
2	81.41	25.08	10.57	40.00	14.92	100	130	Horizontal	
3	101.78	29.28	20.60	43.50	14.22	100	360	Horizontal	
4	455.83	31.31	27.00	46.00	14.69	100	30	Horizontal	
5	619.76	33.11	28.02	46.00	12.89	100	290	Horizontal	
6	877.78	38.25	32.91	46.00	7.75	100	130	Horizontal	

RESULT: PASS





EUT Temperature		Body W	Body Worn Camera		Model Na	Model Name		K7	
		25° C Relative Humid		25° C Relative Humidity 55.4		Relative Humidity			
Pressure	Э	960hPa	a		Test Volt	Test Voltage		DC 3.8V by battery	
Test Mo	de	Mode 1	Mode 1				Vertica	al	
	130			FCC PART	15C				
	120								
	110								
	90								
Ę	70								
Level[dBµV/m]	60								
Leve	50 40								
	30	1	→ 2	*			- distribution of the party of the same of	a company of the same of the s	
	20		~/_	mmtham m	morning white	who we have the first of the fi	Nav. 11		
	10								
	-10 30M		100M					1G	
				Frequency[Hz]				
	— QP Limit # QP Detector	Vertical PK							
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
	56.19	25.67	14.30	40.00	14.33	100	80	Vertical	
1		1	40.00	40.00	13.48	100	100	Vertical	
1 2	82.38	26.52	12.23	40.00					
	82.38 135.73	26.52 27.12	19.35	43.50	16.38	100	90	Vertical	
2					16.38 12.97	100 100	90 270	Vertical Vertical	
3	135.73	27.12	19.35	43.50					

RESULT: PASS

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

2. All test modes had been pre-tested. The mode 1 is the worst case and recorded in the report.



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8. 20 dB BANDWIDTH

8.1 PROVISIONS APPLICABLE

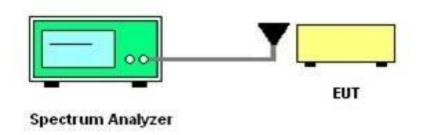
Intentional radiators must be designed to ensure that the 20dB and 99% emission bandwidth in the specific band 13.553~13.567MHz.

8.2 MEASUREMENT PROCEDURE

Set the parameters of SPA as below:

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. Centre frequency = Operation Frequency
- 3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 4. Span: 60kHz, Sweep time: Auto
- Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
- 6. Measured the spectrum width with power higher than 20dB below carrier.
- 7. Measured the 99% OBW.
- 8. Record the plots and Reported.

8.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



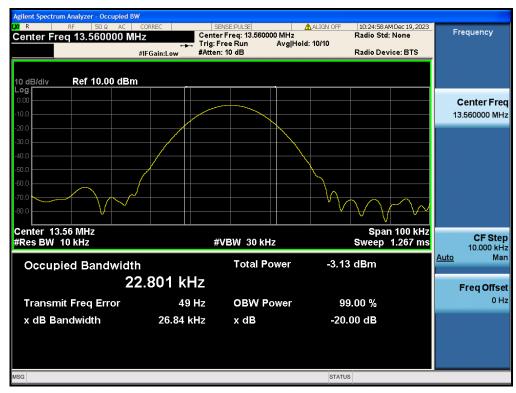


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8.4 MEASUREMENT RESULTS

	Tes	t Data of Occupied Bandwi	dth and -20dB Bandwid	ith	
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
ASK	13.56	0.022801	0.02684	N/A	Pass

Test Graphs of Occupied Bandwidth &-20dB Bandwidth





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9. FREQUENCY STABILITY

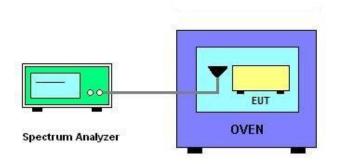
9.1 PROVISIONS APPLICABLE

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

9.2 MEASUREMENT PROCEDURE

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT.
- 2. EUT have transmitted signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire emissions bandwidth.
- 4. Set RBW = 1 kHz, VBW = 3 kHz with peak detector and maxhold settings.
- 5. The fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc x 106 ppm and the limit is less than ±100ppm.
- 6. Extreme temperature rule is -20°C~50°C.

9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





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9.4 MEASUREMENT RESULTS

Operating frequency: 13.56MHz

Voltage vs. Frequency Stability (Test Temperature: 20 °C)

Voltage(V)	Measurement Frequency (MHz)	Max. Deviation (ppm)	Limit(ppm)	Conclusion
3.80	13.56058			
3.23	13.56063	+52.36	±100	PASS
4.35	13.56071			

Temperature vs. Frequency Stability (Test Voltage: 3.80V)

Temperature	Measurement Frequency (MHz)	Max. Deviation (ppm)	Limit(ppm)	Conclusion
-30℃	13.56056			
-20 ℃	13.56057			
-10℃	13.56045			
0℃	13.56053			
10℃	13.56060	+44.25	± 100	PASS
20℃	13.56052			
30℃	13.56058			
40℃	13.56052			
50℃	13.56059			



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10. AC POWER LINE CONDUCTED EMISSION TEST

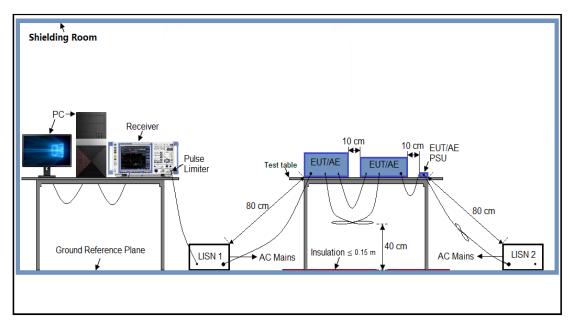
10.1 LIMITS OF LINE CONDUCTED EMISSION TEST

Francisco	Maximum RF Line Voltage				
Frequency	Q.P. (dBμV)	Average (dBμV)			
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.

10.2 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





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10.3 PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. 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 equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power from 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.

10.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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.

10.5 MEASUREMENT RESULTS



		AC LINE C	ONDUCTE	D EMISSI	ON TEST		
Test Mode	Mode 1			LISN	N line	Hot Side	
80	el [dBµV] All [dBµV] All [dBµV] All [dBµV] All [dBµV]	600k 800k 1N	Freque	ncy [Hz]	M 5M 6M 8M	10M 20	M 30M
	23/8/8 10:2 Frequency MHz		-		Margin dB	Detector	Line
	0.498000 0.734000 1.002000 1.298000 1.366000 2.426000	41.10 32.70 33.70 32.10 34.00 30.50	6.1 6.2 6.2 6.2 6.2 6.3	56 56 56 56 56	14.9 23.3 22.3 23.9 22.0 25.5	QP QP QP QP QP QP	L1 L1 L1 L1 L1
ME	ASUREMENT	RESULT:	: "agc_	fin2"			

RESULT: PASS

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Transd Limit

dBuV

46

46

46

46

46

46

dΒ

6.1

6.2

6.2

6.2

6.2

6.2

Margin

19.4

12.1

15.6

17.8

19.2

19.1

Detector

ΑV

ΑV

ΑV

ΑV

ΑV

ΑV

Line

L1

L1

L1

L1

L1

L1

2023/8/8 10:27

Frequency

0.474000

0.506000

0.534000

0.602000

1.010000

1.238000

MHz

Level

dΒμV

27.00

33.90

30.40

28.20

26.80

26.90

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



ode Mode 1	LISN line	Neutral Side
Level [dBµV] 80 70 60 50 40 30 20 10 150k 300k 400k 600k 800k 1M	2M 3M 4M 5M 6M 8M 10M	20M 30N

MEASUREMENT RESULT: "agc_fin"

2023/8/8 10:30						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.498000	42.30	6.1	56	13.7	QP	N
0.530000	38.80	6.2	56	17.2	QP	N
0.998000	36.00	6.2	56	20.0	QP	N
1.190000	33.90	6.2	56	22.1	QP	N
1.362000	35.90	6.2	56	20.1	QP	N
1.398000	36.10	6.2	56	19.9	QP	N

MEASUREMENT RESULT: "agc_fin2"

2023/8/8 10 Frequency MHz	Level	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.338000	24.50	6.1	49	24.8	AV	N
0.406000	24.40	6.1	48	23.3	AV	N
0.470000	27.40	6.1	47	19.1	AV	N
0.506000	33.70	6.2	46	12.3	AV	N
0.610000	23.90	6.2	46	22.1	AV	N
0.998000	23.90	6.2	46	22.1	AV	N

RESULT: PASS

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APPENDIX I: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC02762230801AP01

APPENDIX II: PHOTOGRAPHS OF TEST EUT

Refer to the Report No.: AGC02762230801AP04

----END OF REPORT----



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