TEST REPORT

Report No. CHTEW21030054 Report verification:

Project No. SHT2102026105EW

FCC ID.....: 2ADHNCOSECARGO02

Applicant's name.....: MATRIX COMSEC PVT. LTD.

Test item description: COSEC ARGO

Trade Mark

ON WALLIA

Model/Type reference...... COSEC ARGO CAM200

Listed Model(s) COSEC ARGO FOM212

Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.225

Date of receipt of test sample...... Feb.26, 2021

Date of testing...... Feb.26, 2021- Apr .21, 2021

Date of issue...... Apr .21, 2021

Result...... PASS

Compiled by

(position+printedname+signature)...: File administrators Echo Wei

Supervised by

(position+printedname+signature)....: Project Engineer Kiki Kong

Approved by

(position+printedname+signature)....: RF Manager Hans Hu

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.225: Operation within the band 13.110-14.010 MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2021-04-21	Original

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2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna requirement	15.203	PASS	-
5.2	AC Power Line Conducted Emissions	15.207	PASS	Si Ding
5.3	Field Strength of the Fundamental and Mask Measurement	15.225(a)(b)(c)	PASS	Jian Quan Wu
5.4	20dB Bandwidth	15.215	PASS	Hailey Chen
5.5	Radiated Spurious Emission	15.225(d)&15.209	PASS	Jian Quan Wu
5.6	Frequency Stability	15.225(e)	PASS	Hailey Chen

Note: The measurement uncertainty is not included in the test result.

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3. **SUMMARY**

3.1. Client Information

Applicant:	MATRIX COMSEC PVT. LTD.
Address:	394 - GIDC, Makarpura, Vadodara, Gujarat 390 010, India
Manufacturer:	MATRIX COMSEC PVT LTD
Address:	15 & 19-GIDC, WAGHODIA, DIST.VADODARA - 391760, INDIA
Factory:	MATRIX COMSEC PVT LTD
Address:	15 & 19-GIDC, WAGHODIA, DIST.VADODARA - 391760, INDIA

3.2. Product Description

Name of EUT:	COSEC ARGO
Trade Mark:	** MATRIX
Model No.:	COSEC ARGO CAM200
Listed Model(s):	COSEC ARGO FOM212
Power supply:	DC12V for adapter DC 48V for POE
Adapter Information:	Model:ADS-25SGP-12 12024E Input: 100-240Va.c.,50/60Hz MAX 0.7A Output: 12.0Vd.c.,2.0A 24.0W
Hardware version:	V1R2
Software version:	V1R19

3.3. Radio Specification Description

Modulation:	ASK
Operation frequency:	13.56MHz
Channel number:	1
Antenna type:	Rigid PCB antenna

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3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.			
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China			
Connect information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn			
Qualifications	Type Accreditation Numb			
Qualifications	FCC 762235			

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4. TEST CONFIGURATION

4.1. Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The engineering test program was provided and enabled to make EUT continuous transmit.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit.

The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

4.2. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?						
✓ Yes						
Item Equipement Trade Name Model No.						
1	COSEC PATH RDCE	MATRIX	10003879			
2	EM Magnetic lock	N/A	N/A			

4.3. Testing environmental condition

Туре	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.4. Measurement uncertainty

Test Items	Measurement Uncertainty		
AC Power Conducted Emissions	±3.02 dB		
Radiated emissions below 1GHz	±4.90 dB		
Radiated emissions above 1GHz	±4.96 dB		
Occupied Bandwidth	15 Hz		

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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4.5. Equipments Used during the Test

•	Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27	
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2020/10/19	2021/10/18	
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2020/10/15	2021/10/14	
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2020/10/15	2021/10/14	
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2020/10/15	2021/10/14	
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A	

•	Radiated emission-6th test site						
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2021/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2020/10/19	2021/10/18
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/03/30	2024/03/29
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2018/04/04	2021/04/03
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/03/30	2024/03/29
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2020/11/13	2021/11/12
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2020/05/27	2021/05/26
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2020/05/27	2021/05/26
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission-7th test s	ite				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2020/05/10	202105/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

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•	RF Conducted Method					
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	FSV40	100048	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2020/10/19	2021/10/18
•	Power Meter	Anritsu	ML249A	N/A	2020/10/19	2021/10/18
0	Radio communication tester	R&S	CMW500	137688-Lv	2020/10/19	2021/10/18

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5. TEST CONDITIONS AND RESULTS

5.1. Antenna requirement

Requirement

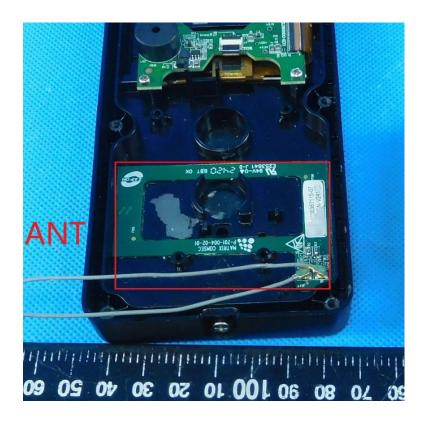
FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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

TEST RESULT

⊠ Passed	☐ Not Applicable

The antenna type is a CHIP antenna, please refer to the below antenna photo.



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5.2. AC Power Conducted Emissions

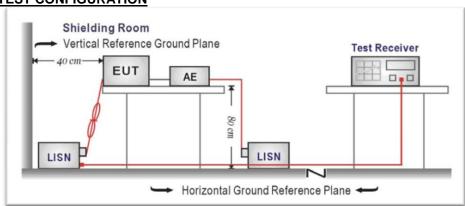
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

Eroguenov rongo (MHz)	Limit (d	BuV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup according to ANSI C63.10
- 2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

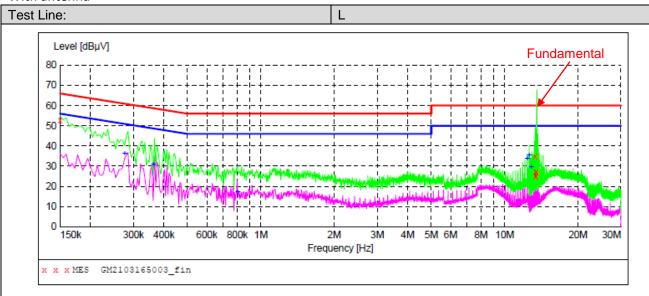
TEST MODE:

Please refer to the clause 4.1

TEST RESULTS

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With antenna



MEASUREMENT RESULT: "GM2103165003_fin"

3/16/2021 9:1	LGAM						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	52.90	10.2	66	13.1	QP	L1	GND
13.348500	35.00	10.4	60	25.0	QP	L1	GND
13.411500	24.90	10.4	60	35.1	QP	L1	GND
13.420500	27.00	10.4	60	33.0	QP	L1	GND
13.429500	25.30	10.4	60	34.7	QP	L1	GND
13.497000	27.20	10.4	60	32.8	QP	L1	GND

MEASUREMENT RESULT: "GM2103165003_fin2"

3/16/2021 9:	16AM							
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.276000	36.00	10.2	51	14.9	AV	L1	GND	
0.361500	30.70	10.2	49	18.0	AV	L1	GND	
0.802500	17.30	10.2	46	28.7	AV	L1	GND	
12.358500	33.80	10.4	50	16.2	AV	L1	GND	
12.615000	35.50	10.4	50	14.5	AV	L1	GND	
12.867000	29.60	10.4	50	20.4	AV	L1	GND	

12.871500

10.40

10.4

50

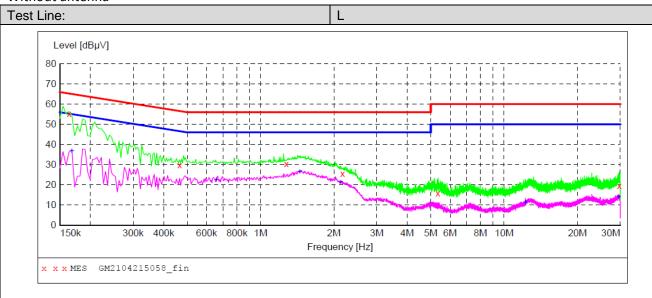
39.6 AV

Ν

GND

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Without antenna

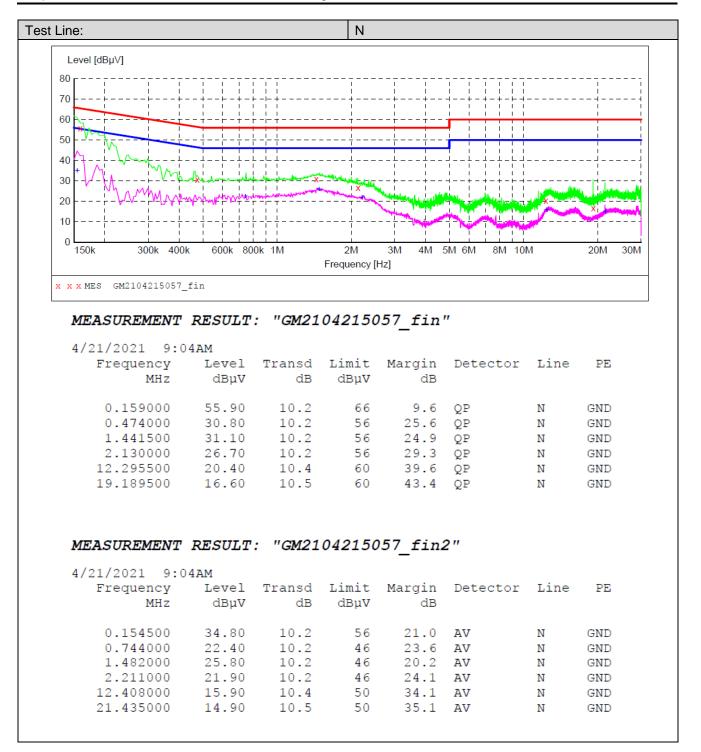


MEASUREMENT RESULT: "GM2104215058_fin"

4/21/2021 9:	:08AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PΕ
MHz	dΒμV	dB	dΒμV	dB			
0.163500	55.10	10.2	65	10.2	QP	L1	GND
0.465000	29.80	10.2	57	26.8	QP	L1	GND
1.275000	30.50	10.2	56	25.5	QP	L1	GND
2.170500	25.60	10.2	56	30.4	QP	L1	GND
5.338500	15.70	10.2	60	44.3	QP	L1	GND
29.728500	19.60	10.5	60	40.4	QP	L1	GND

MEASUREMENT RESULT: "GM2104215058_fin2"

4/21/2021 9: Frequency MHz	08AM Level dBμV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.168000 0.658500 1.450500 2.134500 12.246000 29.598000	36.50 22.50 26.50 21.30 11.30 13.90	10.2 10.2 10.2 10.2 10.5	55 46 46 46 50	18.6 23.5 19.5 24.7 38.7 36.1	AV AV AV AV AV	L1 L1 L1 L1 L1	GND GND GND GND GND GND



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5.3. Field Strength of the Fundamental and Mask Measurement

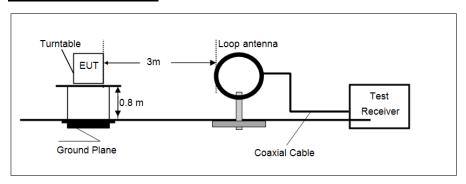
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.225(a)(b)(c)

Fundamental frequency(MHz)	Field strength of fundamental (uV/m @30m)	Field strength of fundamental (dBuV/m @3m)
13.553-13.567	15848	124.0
13.410-13.553&13.567-13.710	334	90.5
13.110-13.410&13.710-14.010	106	80.5

Note: Limit dBuV/m @3m =Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

TEST CONFIGURATION



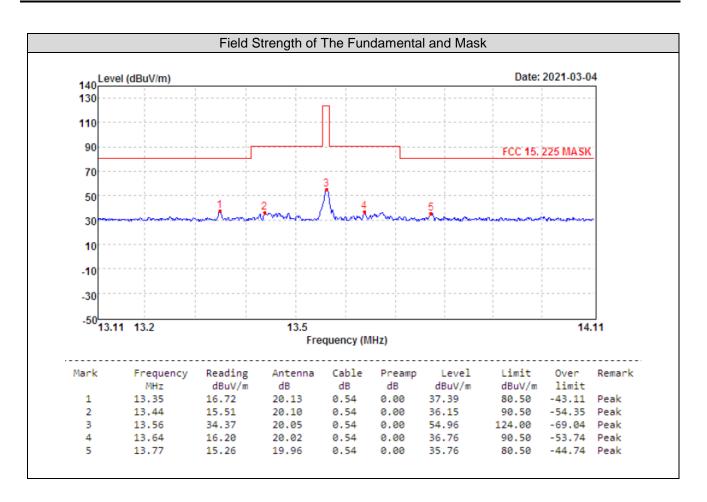
TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10 requirements.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.

TEST MODE:

Please refer to the clause 4.1

TEST RESULTS



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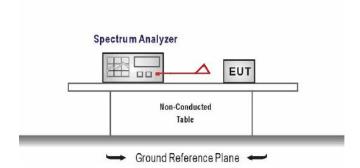
5.4. 20dB Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.215

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

TEST CONFIGURATION



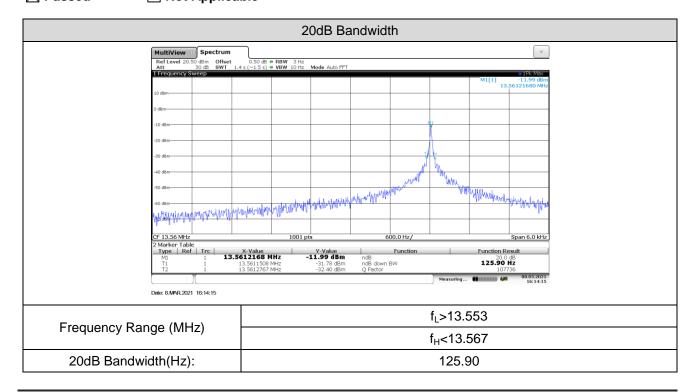
TEST PROCEDURE

- The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings:
 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW
 Sweep = auto, Detector function = peak, Trace = max hold
- 4. Measure and record the results in the test report.

TEST MODE:

Please refer to the clause 4.1

TEST RESULTS



5.5. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209&15.225(d)

Limit for frequency below 30MHz:

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009~0.490	2400/F(kHz)	300	Quasi-peak
0.490~1.705	24000/F(kHz)	30	Quasi-peak
1.705~30.0	30	30	Quasi-peak

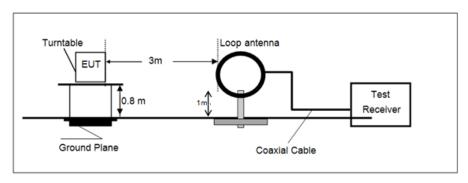
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3) = Limit dBuV/m @300m +80, Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3) = Limit dBuV/m @30m + 40*log(30/3) = Limit dBuV/m @3

Limit for frequency above 30MHz:

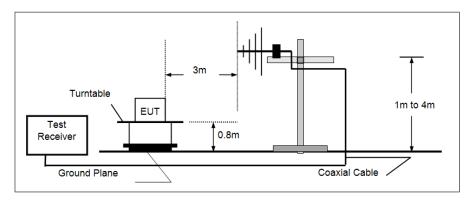
Frequency	Limit (dBuV/m@3m)	Remark
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

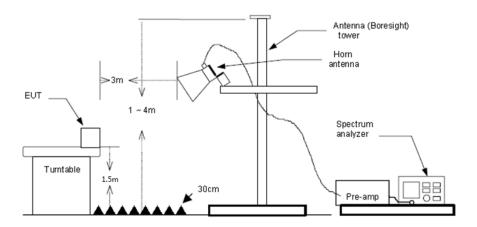
● 9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10 requirements.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 30MHz:
 - RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
 - (3) 30MHz to 1 GHz:
 - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (4) From 1 GHz to 10th harmonic:
 - RBW=1MHz, VBW=3MHz Peak detector for Peak value.
 - RBW=1MHz, VBW=3MHz RMS detector for Average value.

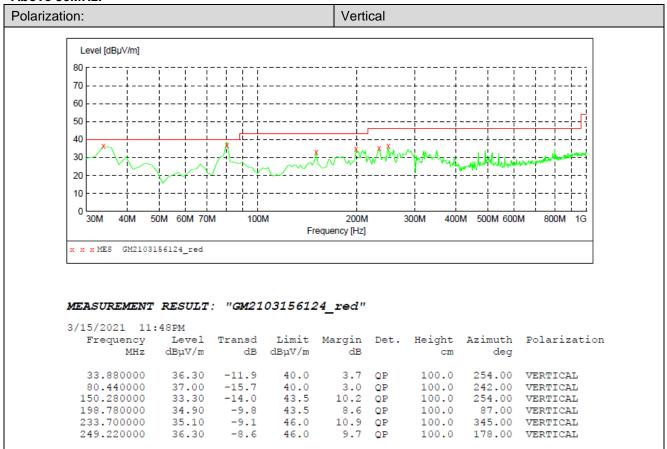
TEST MODE:

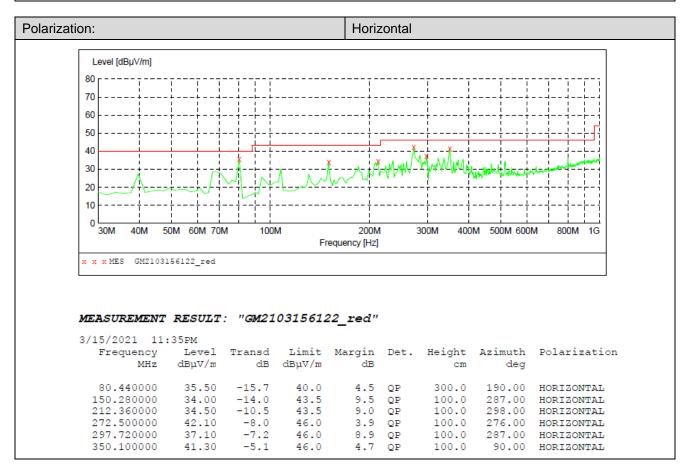
Please refer to the clause 4.1

TEST RESULTS

Mark	Frequnency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	(MHz)	(dBuA)	(dB)	(dB)	(dB)	(dBuA/m)	(dBuA/m)	Limit	
1	0.02	29.08	22.40	0.20	0.00	51.68	121.58	-69.90	Peak
2	0.04	25.07	22.32	0.21	0.00	47.60	115.56	-67.96	Peak
3	0.08	21.61	22.30	0.22	0.00	44.13	108.54	-64.41	Peak
4	0.29	22.50	22.20	0.2	0.00	44.93	98.36	-53.43	Peak
5	1.29	20.53	22.20	0.28	0.00	43.01	65.39	-22.38	Peak
6	13.78	23.82	20.02	0.54	0.00	44.38	69.54	-25.16	Peak

Above 30MHz:





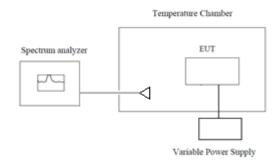
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5.6. Frequency Stability

LIMIT

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ 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.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external power supply.
- 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
- 3. The EUT was placed inside the temperature chamber.
- 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
- 5. Turn EUT off and set the chamber temperature to -20° C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE:

Please refer to the clause 4.1

TEST RESULTS

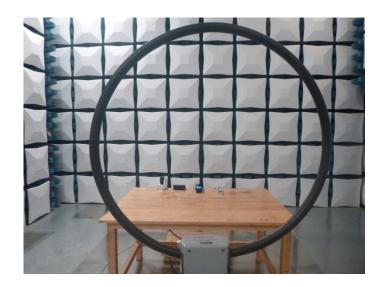
Test Enviroment		Frequency	Frequency	I inchis	Dazult
Voltage	Temperature(°C)	Reading(MHz)	Error(%)	Limit	Result
AC 120V	-20	13.56100	0.0074	±0.01%	Pass
	-10	13.56112	0.0083	±0.01%	Pass
	0	13.56114	0.0084	±0.01%	Pass
	10	13.56112	0.0083	±0.01%	Pass
	20	13.56108	0.0080	±0.01%	Pass
	30	13.56102	0.0075	±0.01%	Pass
	40	13.56119	0.0088	±0.01%	Pass
	50	13.56103	0.0076	±0.01%	Pass
AC 132V	20	13.56107	0.0079	±0.01%	Pass
AC 108V	20	13.56109	0.0080	±0.01%	Pass

6. TEST SETUP PHOTOS

Conducted Emissions (AC Mains)



Radiated Emissions

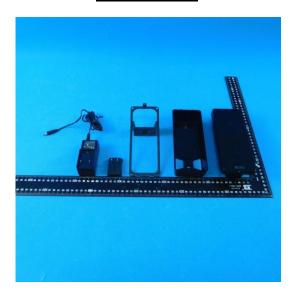


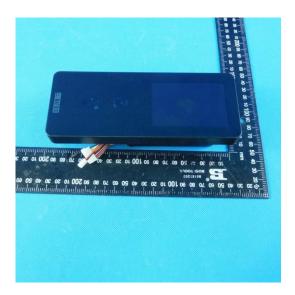




7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

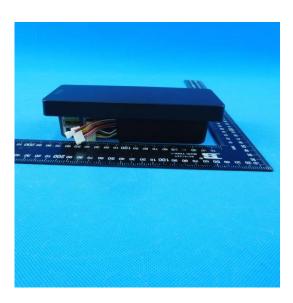
External Photos

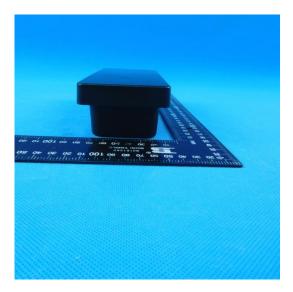


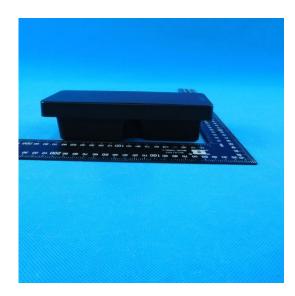


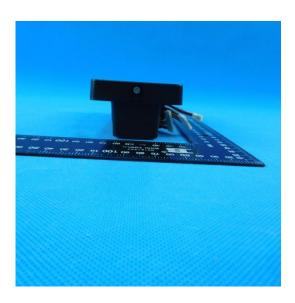


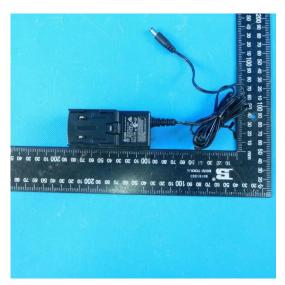
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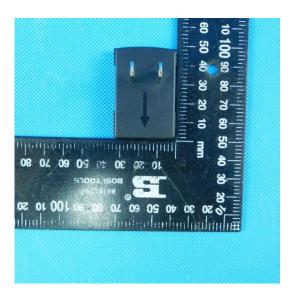






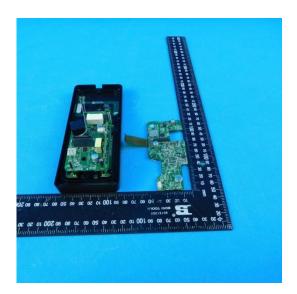


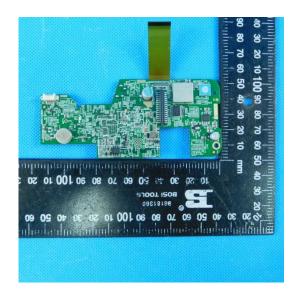




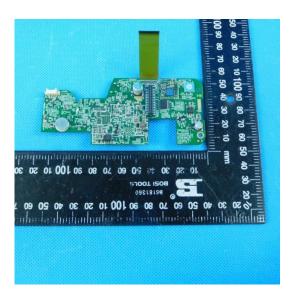
Internal Photos



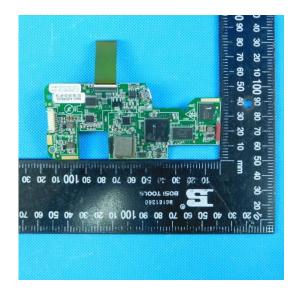


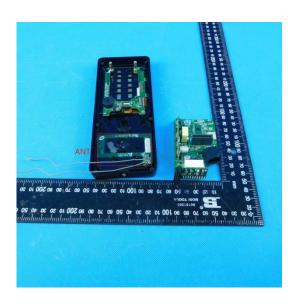






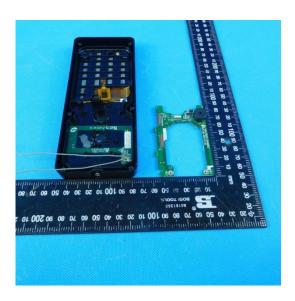


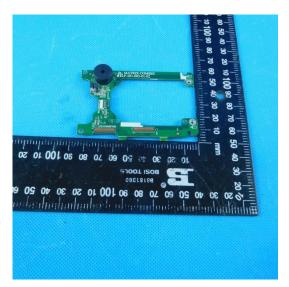


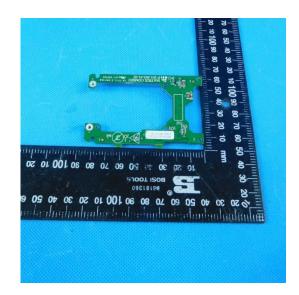












-----End of Report-----