

FCC Test Report

Report No.: AGC07307210602FE03

FCC ID : 2AY9HVRR010004

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Bluetooth FM Transmitter with Remote Control

BRAND NAME : AUTO DRIVE

MODEL NAME : VM-216

APPLICANT: Artsun Enterprise Company Limited

DATE OF ISSUE : Aug. 06, 2021

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION : V1.0

Attestation of Global Comptance (Shenzhen) Co., Ltd



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Page 2 of 29

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Aug. 06, 2021	Valid	Initial Release

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TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
2.2. RELATED SUBMITTAL(S) / GRANT (S)	
2.3. TEST METHODOLOGY	5
2.4. SPECIAL ACCESSORIES	
2.5. EQUIPMENT MODIFICATIONS	5
3. MEASUREMENT UNCERTAINTY	6
4. DESCRIPTION OF TEST MODES	6
5. SYSTEM TEST CONFIGURATION	6
5.1. EQUIPMENT USED IN EUT SYSTEM	6
5.2. SUMMARY OF TEST RESULTS	
6. TEST FACILITY	7
7. ANTENNA REQUIREMENT	8
8. PROVISION FOR MOMENTARY OPERATION	9
8.1 MEASUREMENT PROCEDURE	9
8.2 TEST SETUP	
8.3 TEST RESULT	
9. DUTY CYCLE CORRECTION FACTOR	11
9.1 MEASUREMENT PROCEDURE	11
9.2 TEST SETUP	11
9.3 TEST RESULT	
10. RADIATED EMISSION	
10.1. MEASUREMENT PROCEDURE	
10.2. TEST SETUP	16
10.3. TEST RESULT	17
11. BANDWIDTH	21
11.1. MEASUREMENT PROCEDURE	21
11.2. TEST SETUP	21
11.3. TEST RESULT	22
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	23
ADDENDIV D. DUOTOOD ADUC OF FUT	

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Page 4 of 29

1. VERIFICATION OF CONFORMITY

Applicant	Artsun Enterprise Company Limited		
Address	19H Maxgrandplaza, No.3 Tai Yau Street, San Po Kong, Kowloon, Hong Kong, China		
Manufacturer	Artsun Enterprise Company Limited		
Address 19H Maxgrandplaza, No.3 Tai Yau Street, San Po Kong, Kowloon, Hong Kong China			
Factory	VOLANT ROC ELECTRONICS TECH CO., LTD		
Address	ddress A Building, QianLi Industrial Park, Sandong Town, Huizhou City 516025, Guangdong, China		
Product Designation	Bluetooth FM Transmitter with Remote Control		
Brand Name AUTO DRIVE			
Test Model VM-216			
Date of test	Date of test Jun. 28, 2021 to Aug. 06, 2021		
Deviation None			
Condition of Test Sample Normal			
Report Template AGCRT-US-BR/RF (2013-03-01)			

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 C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.231.

Prepared By	Then Huong	
	Thea Huang (Project Engineer)	Aug. 06, 2021
Reviewed By	Max Zhang	
	Max Zhang (Reviewer)	Aug. 06, 2021
Approved By	Formerles	
-C	Forrest Lei (Authorized Officer)	Aug. 06, 2021

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Page 5 of 29

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	433.92MHz	
Field Strength(3m)	433.92MHz: 70.39dBuV/m(PK)@3m 433.92MHz: 60.24dBuV/m(AV)@3m	
Modulation	ASK	
Number of channels	1	
Hardware Version	V.1.0	
Software Version	V1.0	
Antenna Designation	PCB antenna	
Antenna Gain	0dBi	C
Power Supply	DC 3V by battery	

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

This submittal(s) (test report) is intended for **FCC ID: 2AY9HVRR010004** filing to comply with Section 15.231 of the FCC Part 15, Subpart C Rules.

2.3. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2010). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.4. SPECIAL ACCESSORIES

Refer to section 5.1.

2.5. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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Report No.: AGC07307210602FE03 Page 6 of 29

3. 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%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Transmitting mode

Note:

- 1. The test modes can be supply by battery or adapter, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. For battery operated equipment, the equipment tests are performed using a new battery.

5. SYSTEM TEST CONFIGURATION

5.1. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Bluetooth FM Transmitter with Remote Control	VM-216	2AY9HVRR010004	EUT

5.2. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.231(a)(2)	Activated automatically	Compliant
§15.231(b)	Average Factor	Compliant
§15.231(e) & §15.209	Field Strength of Fundamental and Spurious Emission	Compliant
15.207	Conducted Emission	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ battery power for operation.

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Page 7 of 29

6. TEST FACILITY

Test Site	Test Site Attestation of Global Compliance (Shenzhen) Co., Ltd 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China		
Location			
Designation Number	CN1259		
FCC Test Firm Registration Number	975832		
A2LA Cert. No.	5054.02		
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA		

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2021	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Apr. 23, 2021	Apr. 22, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBEC K	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC(Ver.RA -03A)	N/A	N/A	N/A
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

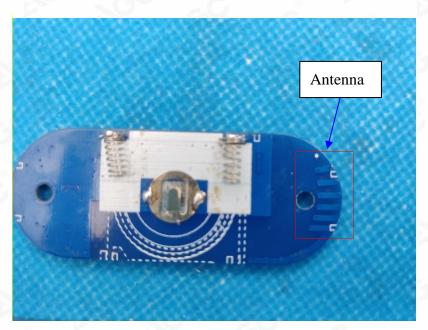
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7. ANTENNA REQUIREMENT

According to §15.203, 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 EUT has PCB antenna, which accordance to the above sections, is considered sufficient to comply with the provisions of these sections. Please see EUT photo for details.



The requirements of section 15.203 are FULFILLED.

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Page 9 of 29

8. PROVISION FOR MOMENTARY OPERATION

8.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

RBW=1MHz, VBW=3MHz

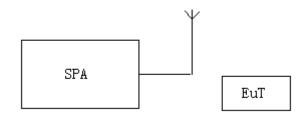
Span: 0Hz

Sweep time: 10S

2. Set the EUT to transmit by manually operated. Use the "View" function of SPA to find the transmission time of being released.

3. Record the data and Reported.

8.2 TEST SETUP



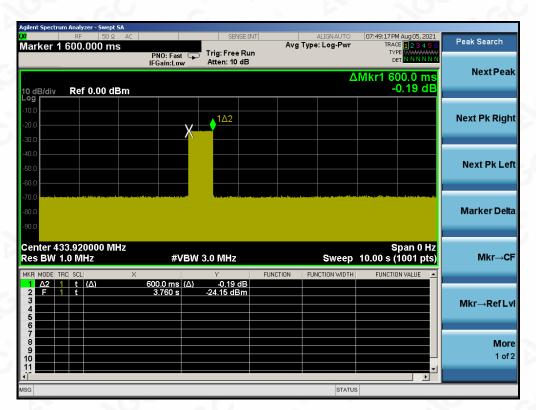
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8.3 TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter

The time of stopping transmission after automatically	Limit (s)
activation by alarm sensor(s)	
0.60	5.00



RESULT: PASS

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Page 11 of 29

9. DUTY CYCLE CORRECTION FACTOR

9.1 MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

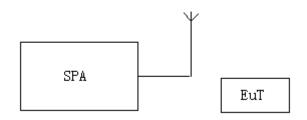
RBW=1MHz, VBW=3MHz

Span: 0Hz

Sweep time: more than two pulse trains or more than each type of pulse occupancy time

- 2. Set the EUT to transmit by manually operated. Use the "Delta mark" function of SPA to find the period time between two pulse trains and each type of pulse occupancy time.
- 3. Record the plots and Reported.

9.2 TEST SETUP



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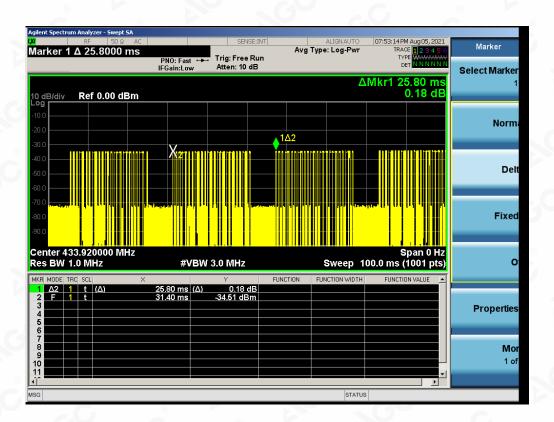


Page 12 of 29

9.3 TEST RESULT

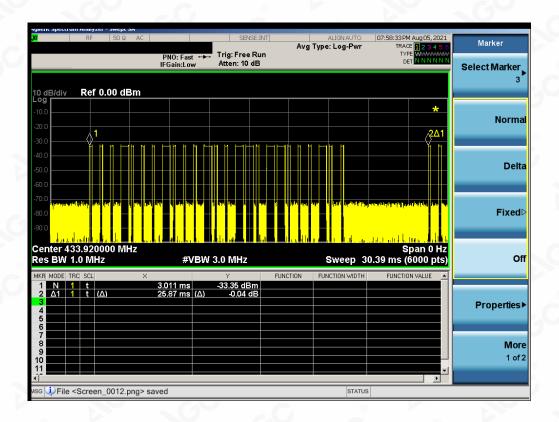
Test Mode: EUT @ 433.92MHz for RF Transmitter

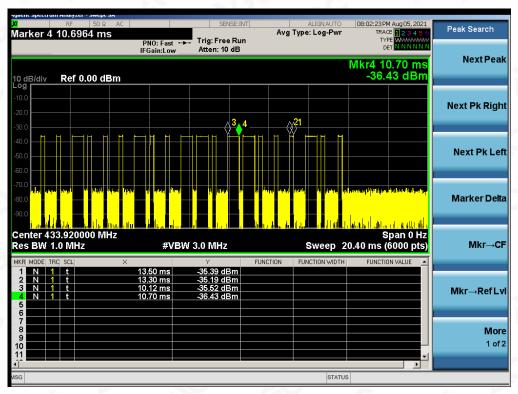
	Duty Cycle:	(0.2*17+0.58*8)ms/25.87ms=8.04ms/25.87ms=0.3107
9	Duty Cycle Correction Factor:	20lg(0.3107)=-10.15dB



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Page 14 of 29

10. RADIATED EMISSION

10.1. MEASUREMENT PROCEDURE

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 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.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions below 1GHz, use 120KHz RBW and VBW>=3RBW for QP reading.
- 7. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 8. 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.
- 9.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.
- 10. 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.
- 11. 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.
- 12. Only the worst case is reported.

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Page 15 of 29

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

	Spectrum Parameter	Setting
	Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
(8)	Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
100	Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP
®	Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

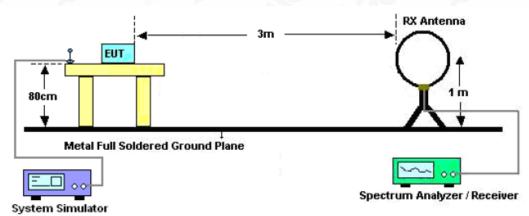
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RBW 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RBW 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RBW 120KHz for QP

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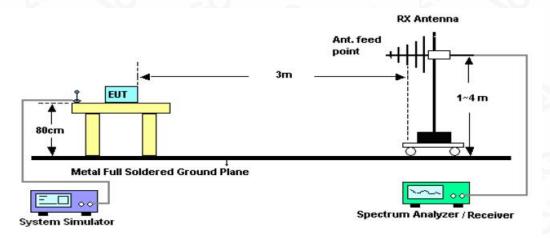


10.2. TEST SETUP

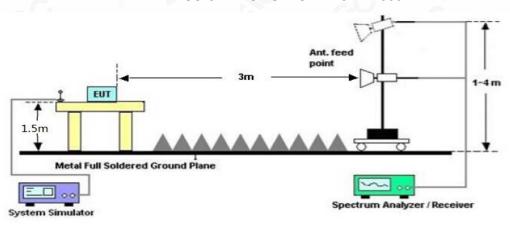
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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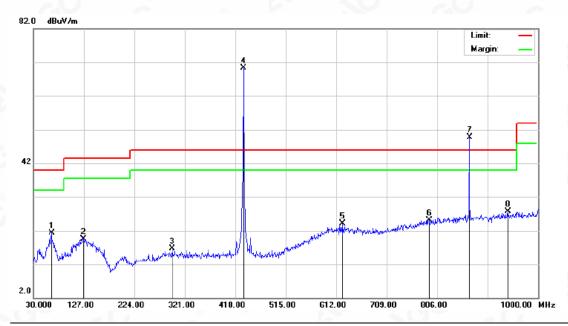


10.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ-Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		64.9200	9.44	11.79	21.23	40.00	-18.77	peak
2		126.0300	6.65	12.87	19.52	43.50	-23.98	peak
3		296.7500	6.72	9.95	16.67	46.00	-29.33	peak
4	*	433.5200	60.41	9.98	70.39	46.00	24.39	peak
5		623.6399	7.27	16.76	24.03	46.00	-21.97	peak
6		790.4800	6.06	19.10	25.16	46.00	-20.84	peak
7	X	868.0800	29.46	20.30	49.76	46.00	3.76	peak
8		941.7999	6.64	21.07	27.71	46.00	-18.29	peak

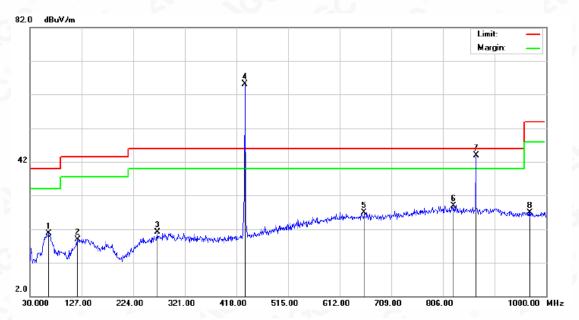
AV data list

Freq.	Peak Level	Duty cycle	AV Level	FCC Limit	Margin	Polarization
[MHz]	(dBuV/m)	factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarization
433.9200	70.39	-10.15	60.24	80.82	-20.58	Horizontal
868.2800	49.76	-10.15	39.61	60.82	-21.21	Horizontal

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RADIATED EMISSION BELOW 1GHZ-Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		65.8900	7.37	13.24	20.61	40.00	-19.39	peak
2		119.2399	6.15	12.78	18.93	43.50	-24.57	peak
3		269.5899	7.04	14.09	21.13	46.00	-24.87	peak
4	*	433.5200	50.14	14.99	65.13	46.00	19.13	peak
5		657.5900	6.90	20.06	26.96	46.00	-19.04	peak
6		826.3700	6.79	22.21	29.00	46.00	-17.00	peak
7	İ	868.0800	21.95	21.89	43.84	46.00	-2.16	peak
8		969.9299	6.11	20.88	26.99	54.00	-27.01	peak

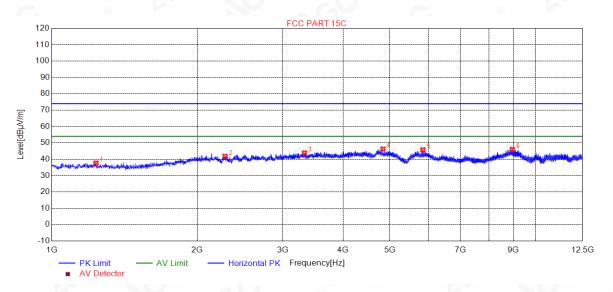
AV data list

-							
	Freq.	Peak Level	Duty cycle	AV Level	FCC Limit	Margin	Polarization
	[MHz]	(dBuV/m)	factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	Polarization
	433.9200	65.13	-10.15	54.98	80.82	-25.84	Vertical
	868.0800	43.84	-10.15	33.69	60.82	-27.13	Vertical

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RADIATED EMISSION ABOVE 1GHZ-Horizontal



Peak data list

NO.	Freq.↓ [MHz]↓	Level⊬ [dBµV/m]⊭	Factor⊌ [dB]⊌	Limit⊬ [dBµV/m].⊬	Margin⊬ [dB]₄	Height⊬ [cm]⊭	Angle [″]	Polarity⊍
1₽	1234.6235↓	37.62 ₽	-16.87₽	74.00₽	36.38₽	100₽	120₽	Horizontal↵
2₄/	2282.3782↓	41.78 ₽	-10.63₄	74.00₽	32.22₽	100₽	60₄	Horizontal₽
3₄	3328.9829₽	43.84 ₽	-8.19₽	74.00₽	30.16₽	100₽	200₽	Horizontal₽
4.	4837.9338↓	46.23 ₽	-4.88₄	74.00₽	27.77₽	100₽	110₽	Horizontal₽
5₊□	5847.7348↓	45.75 ₽	-4.17₽	74.00₽	28.25₽	100₽	230₽	Horizontal₽
6₄∪	8951.8952₽	46.06 ₽	1.28₽	74.00₽	27.94₽	100₽	130₽	Horizontal₽

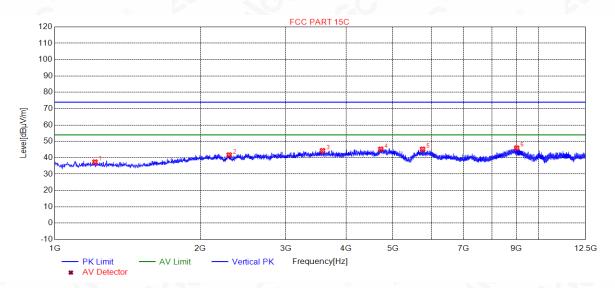
AV data list

Freq. [MHz]	Peak Level (dBuV/m)	Duty cycle factor(dB)	AV Level (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Polarization
1234.6235	37.62	-10.15	27.470	60.82	33.35	Horizontal
2282.3782	41.78	-10.15	31.630	60.82	29.19	Horizontal
3328.9829	43.84	-10.15	33.690	60.82	27.13	Horizontal
4837.9338	46.23	-10.15	36.080	54.00	17.92	Horizontal
5847.7348	45.75	-10.15	35.600	60.82	25.22	Horizontal
8951.8952	46.06	-10.15	35.910	60.82	24.91	Horizontal

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RADIATED EMISSION ABOVE 1GHZ-Vertical



Peak data list

NO.	Freq.4 [MHz]4	Level⊬ [dBµV/m]□	Factor [dB]₄	Limit⊿ [dBµV/m]₄	Margin⊌ [dB]⊌	Height⊬ [cm]⊭	Angle [°]	Polarity√
1 4	1211.6212₽	37.42₽	-16.85₽	74.00₽	36.58₽	100₽	320₽	Vertical⊌
2₄/	2293.8794	41.73₽	-10.59₽	74.00₽	32.27₽	100₽	0 ₽	Vertical↵
3₄∪	3576.2576₽	44.35₽	-7.43₽	74.00₽	29.65₽	100₽	230₽	Vertical↵
4.	4718.3218	45.26₽	-4.99₄	74.00₽	28.74₽	100₽	20₽	Vertical⊌
54	5756.8757₽	45.25₽	-4.47₽	74.00⊌	28.75₽	100₽	150₽	Vertica⊬
6₄∪	9008.2508₽	45.95₽	1.60₽	74.00₽	28.05₽	100₽	40₽	Vertical⊌

AV data list

Freq. [MHz]	Peak Level (dBuV/m)	Duty cycle factor(dB)	AV Level (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Polarization
1211.6212	37.42	-10.15	27.270	54.00	33.55	Vertical
2293.8794	41.73	-10.15	31.580	60.82	29.24	Vertical
3576.2576	44.35	-10.15	34.200	60.82	26.62	Vertical
4718.3218	45.26	-10.15	35.110	54.00	18.89	Vertical
5756.8757	45.25	-10.15	35.100	60.82	25.72	Vertical
9008.2508	45.95	-10.15	35.800	60.82	25.02	Vertical

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

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

RESULT: PASS

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Page 21 of 29

11. BANDWIDTH

11.1. MEASUREMENT PROCEDURE

1. Set the parameters of SPA as below:

Centre frequency = Operation Frequency

RBW=0.3KHz

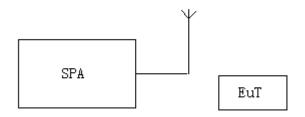
VBW=1.0KHz

Span: 60kHz

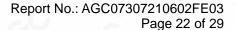
Sweep time: Auto

- 2. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
- 3. Record the plots and Reported.

11.2. TEST SETUP



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Fest no/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

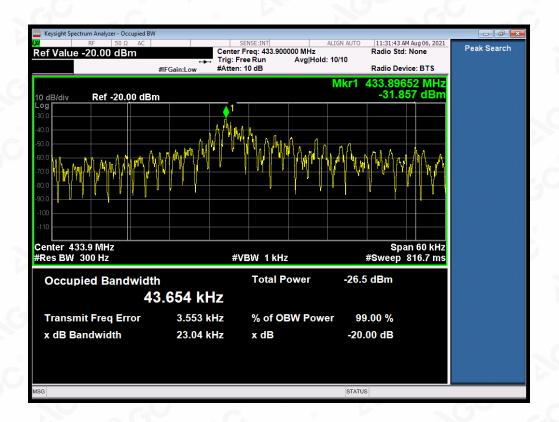




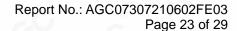
11.3. TEST RESULT

Test Mode: EUT @ 433.92MHz for RF Transmitter

-20dB bandwidth	LIMIT	RESULT
23.04KHz	1084.8KHz	Pass
Note: Limit= Operation Frequency ×0	.25%	0



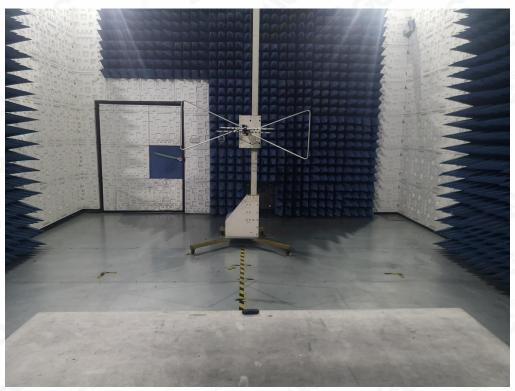
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stadied restriction Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written appropriation of AGE. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.





APPENDIX A: PHOTOGRAPHS OF TEST SETUP

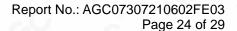
FCC RADIATED EMISSION TEST SETUP-BELOW 1GHz



FCC RADIATED EMISSION TEST SETUP-ABOVE 1GHz



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APPENDIX B: PHOTOGRAPHS OF EUT

Test Model:

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



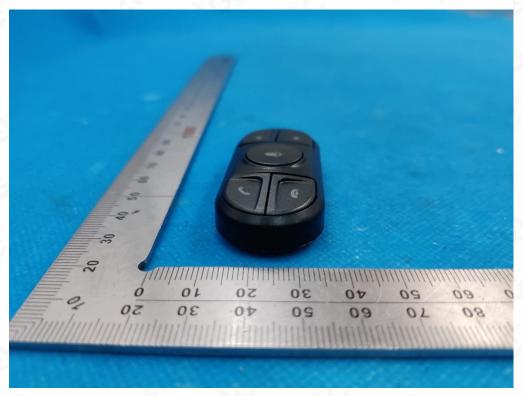
BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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OPEN VIEW OF EUT-1



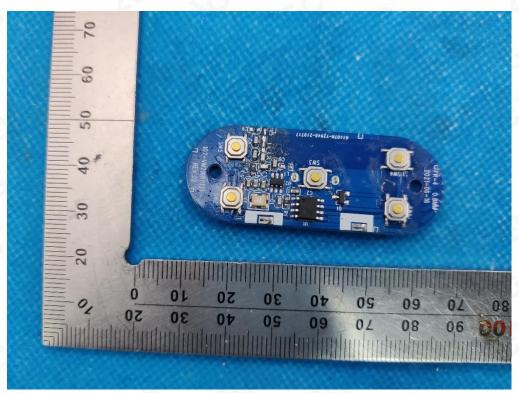
OPEN VIEW OF EUT-2



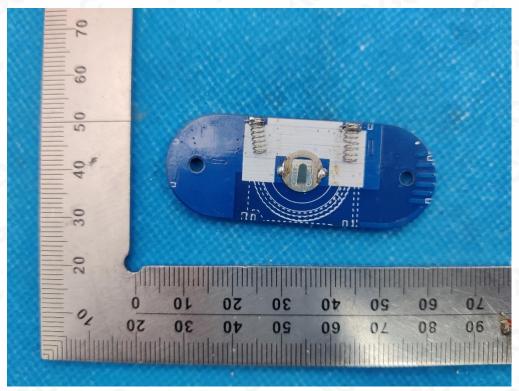
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Dedicated Restriction Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter point is presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



INTERNAL VIEW-1 OF EUT



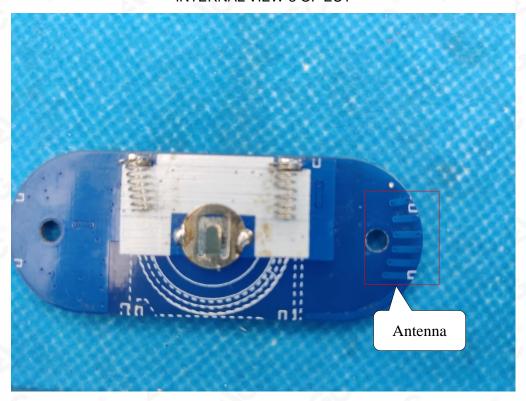
INTERNAL VIEW-2 OF EUT



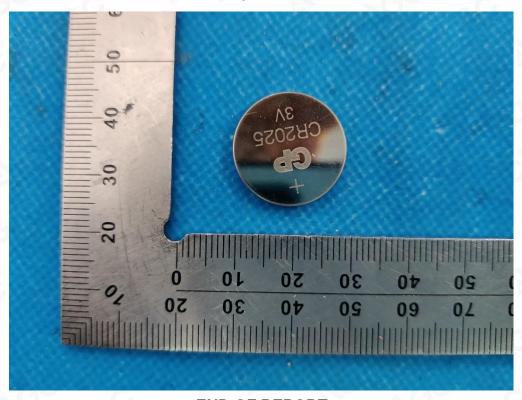
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



INTERNAL VIEW-3 OF EUT



VIEW OF BATTERY



----END OF REPORT----

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Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
- 5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the standard restriction Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written explorization of AGE, the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.