

FCC Test Report

Report No.: AGC00408230802FR04A

FCC ID : 2A3DR-AGMH6

APPLICATION PURPOSE: Class II Permissive Change

PRODUCT DESIGNATION: 4G Smart Phone

BRAND NAME : AGM

MODEL NAME : AGM_H_MAX

APPLICANT : AGM MOBILE LIMITED

DATE OF ISSUE : Sep. 13, 2024

STANDARD(S) : FCC Part 15 Subpart E §15.407

REPORT VERSION: V1.0

Attestation of Global Conciliance (Shenzhen) Co., Ltd



Page 2 of 27

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 13, 2024	Valid	Initial Release

Note: The original test report AGC00408230802FR04 (dated Aug. 22, 2023 and tested from Aug.11, 2023 to Aug. 22, 2023) was modified on Sep. 13, 2024, including the following changes and additions:

- Changed model name.
- Changed software version.
- Changed manufacturer, manufacturer address, factory and factory address.
- Changed rated voltage of battery and model name and manufacturer.
- Changed the circuit components of the headphones (added geomagnetic function).
- Changed the appearance, size, and thickness of the product.
- Changed the appearance and gain of the antenna.

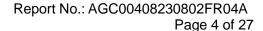
Other electrical components and motherboard circuits are exactly the same.

Based on the above changes RADIATED EMISSION has were subjected to re-evaluation testing.



TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION	5
2.1. PRODUCT DESCRIPTION	5
2.2. TABLE OF CARRIER FREQUENCYS	6
2.3. RELATED SUBMITTAL(S) / GRANT (S)	7
2.4. TEST METHODOLOGY	7
2.5. SPECIAL ACCESSORIES	7
2.6. EQUIPMENT MODIFICATIONS	7
2.7. ANTENNA REQUIREMENT	7
3. TEST ENVIRONMENT	8
3.1 ADDRESS OF THE TEST LABORATORY	8
3.2 TEST FACILITY	8
3.3 ENVIRONMENTAL CONDITIONS	9
3.4 MEASUREMENT UNCERTAINTY	9
3.5 LIST OF EQUIPMENTS USED	
4. DESCRIPTION OF TEST MODES	11
5. SYSTEM TEST CONFIGURATION	
5.1. CONFIGURATION OF EUT SYSTEM	12
5.2. EQUIPMENT USED IN EUT SYSTEM	
5.3. SUMMARY OF TEST RESULTS	12
6. RADIATED EMISSION	13
6.1 LIMITS OF RADIATED EMISSION TEST	13
6.2 MEASUREMENT PROCEDURE	14
6.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)	16
6.4 MEASUREMENT RESULT	
APPENDIX I: PHOTOGRAPHS OF TEST SETUP	27
APPENDIX II: PHOTOGRAPHS OF EUT	27





1. VERIFICATION OF CONFORMITY

Applicant	AGM MOBILE LIMITED
Address	FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG CIRCUIT TUEN MUN NT HONG KONG,CHINA
Manufacturer	GUANGDONG AIJIEMO ELECTRONIC INDUSTRY CO., LTD
Address	AGM TECHNOLOGY PARK,NO.187 LIANFA ROAD,TONGQIAO TOWN,ZHONGKAI HIGH-TECH DISTRICT,HUIZHOU CITY,P.R.CHINA
Factory	GUANGDONG AIJIEMO ELECTRONIC INDUSTRY CO., LTD
Address	AGM TECHNOLOGY PARK,NO.187 LIANFA ROAD,TONGQIAO TOWN,ZHONGKAI HIGH-TECH DISTRICT,HUIZHOU CITY,P.R.CHINA
Product Designation	4G Smart Phone
Brand Name	AGM
Test Model	AGM_H_MAX
Date of receipt of test item	Aug. 14, 2024
Date of test	Aug. 14, 2024~Sep. 13, 2024
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

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 requirement of FCC Part 15 Rules requirement.

Prepared By	Bibo Zhang		
	Bibo Zhang (Project Engineer)	Sep. 13, 2024	
Reviewed By	Calvin Lin		
	Calvin Liu (Reviewer)	Sep. 13, 2024	
Approved By	Max Zhang		
-	Max Zhang (Authorized Officer)	Sep. 13, 2024	



Page 5 of 27

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

Equipment Type	☐ Outdoor access points☐ Fixed P2P access points☐ Client devices		
	☐ U-NII 1:5150MHz~5250MHz ☐ U-NII 2A: 5250MHz~5350MHz		
Operation Frequency	☐ U-NII 2C:5470MHz~5725MHz ☐ U-NII 3: 5725MHz~5850MHz		
DFS Design Type	☐ Master ☐ Slave with radar detection ☐ Slave without radar detection		
TPC Function	☐ Yes ☐ No		
Hardware Version	S681_V1		
Software Version	Android 14		
	For 802.11a/n-HT20/ac-VHT20: 5180~5240MHz, 5745~5825MHz		
Test Frequency Range	For 802.11n-HT40/ac-VHT40: 5190~5230MHz, 5755~5795MHz		
	For 802.11ac-VHT80: 5210MHz, 5775MHz		
	IEEE 802.11a(HT20):12.82dBm; IEEE 802.11n(HT20): 11.87dBm;		
Output Power	IEEE802.11n(HT40): 11.01dBm; IEEE 802.11ac(VHT20):11.88dBm;		
	IEEE802.11ac(VHT40):11.02dBm; IEEE802.11ac(VHT80):9.19dBm;		
Modulation	802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM		
	802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM		
	802.11a:6/9/12/18/24/36/48/54Mbps;		
Data Rate	802.11n:up to 300Mbps;		
	802.11ac:up to 866.6Mbps;		
Number of channels	7 channels of U-NII-1 Band		
	8 channels of U- NII 3 Band		
Antenna Designation	PIFA Antenna		
Antenna Gain	U-NII 1: -1.24dBi, U-NII 3: 0.23dBi		
Power Supply	DC 3.85V by battery or DC 5V by adapter		



Page 6 of 27

2.2. TABLE OF CARRIER FREQUENCYS

For 5180~5240MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz		

For 5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
155	5775 MHz		



Page 7 of 27

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

This submittal(s) (test report) is intended for **FCC ID**: **2A3DR-AGMH6** filing to comply with the FCC Part 15 requirements.

2.4. TEST METHODOLOGY

No.	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
4	KDB 662911	662911 D01 Multiple Transmitter Output v02r01
5	KDB 789033	789033 D02 General U-NII Test Procedures New Rules v02r01

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

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 U-NII 1: -1.24dBi, U-NII 3: 0.23dBi.



Page 8 of 27

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.



Page 9 of 27

3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range (°C)	15 - 35	-30 - 50
Relative humidty range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 3.85V	LV DC 3.27V/HV DC 4.4V

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 Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$



Page 10 of 27

3.5 LIST OF EQUIPMENTS USED

• F	Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)	
	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2024-02-01	2025-01-31	
\boxtimes	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2024-05-24	2025-05-23	
\boxtimes	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2024-05-28	2025-05-27	
\boxtimes	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04	
\boxtimes	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10	
	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2024-03-31	2025-03-30	
	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2023-09-24	2025-09-23	
\boxtimes	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23	
\boxtimes	AGC-EM-A119	2.4G Filter	SongYi	N/A	N/A	2024-05-23	2025-05-22	
\boxtimes	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08	
	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2025-06-08	



Page 11 of 27

4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n/ac		36,40,48, 149,157,165	OFDM/OFDMA	6Mbps/MCS0
802.11n/ac	Defends Coeffee 0.0	38,46, 151,159	OFDM/OFDMA	MCS0
802.11ac	Refer to Section 2.2	42,155	OFDM/OFDMA	MCS0

Note:

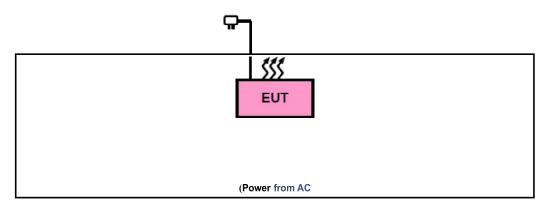
- 1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%.
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. The test software is through engineering commands, EUT can be set to a separate test mode.



Page 12 of 27

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Adapter	U312E0A050200	Input: AC 100-240V 50/60Hz, 0.35A Output: DC 5.0V 2A	AE
2	Battery	AGM_H_MAX	DC 3.85V 10000mAh	AE
3	USB Cable	N/A	N/A	AE

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5.3. SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	§15.209,§15.407(b)(1/4)	Radiated Emission	Pass



6. RADIATED EMISSION

6.1 LIMITS OF RADIATED EMISSION TEST

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

	Applicable to	Limit		
Restricted	789033 D02 General UNII Test	Field strength at 3m (dBuV/m)		
bands	bands Procedures New Rules v02r01		AV: 54	
	Applicable to	EIRP Limit (dBm/MHz)	Equivalent field Strength at 3m (dBuV/m)	
Out of the	FCC 15.407(b)(1)			
restricted bands	15.407(b)(2)	PK: -27	PK: 68.2	
	15.407(b)(3)			
	15.407(b)(4)	See Note 2		

Note 1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

E =
$$\frac{1000000 \sqrt{30 P}}{3}$$
 µV/m, where P is the eirp (Watts).

Note 2: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



Report No.: AGC00408230802FR04A Page 14 of 27

6.2 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 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.



Page 15 of 27

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

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

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz:

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz:

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz:

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

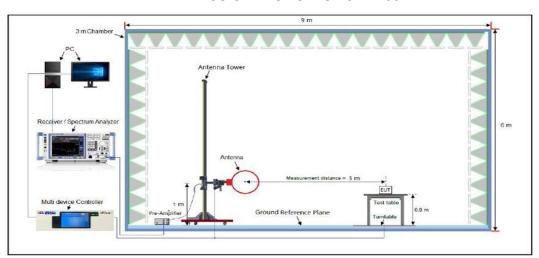
(4) Procedures for Average Unwanted Emissions Measurements Above 1000MHz:

- RBW = 1 MHz
- VBW = 3 MHz Detector = power averaging (rms), set span/(# of points in sweep) ≥ RBW/2.
- Averaging type = power averaging (RMS)
- The correction factor shall be offset is 10 $\log (1/x)$, where x is the duty cycle.

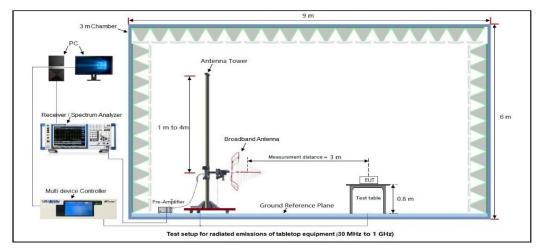


6.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)

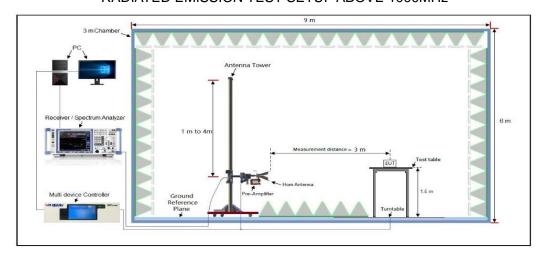
RADIATED EMISSION TEST SETUP 9KHz-30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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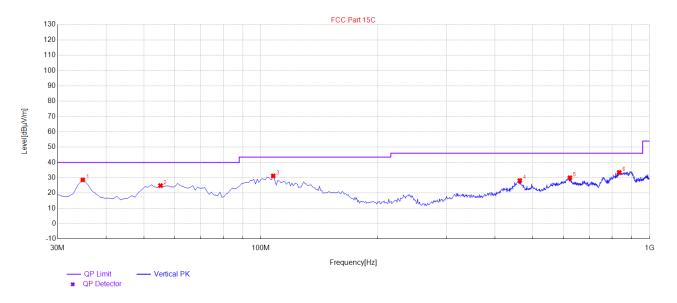
6.4 MEASUREMENT RESULT

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 to 1000MHz

EUT	4G Smart Phone	Model Name	AGM_H_MAX
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

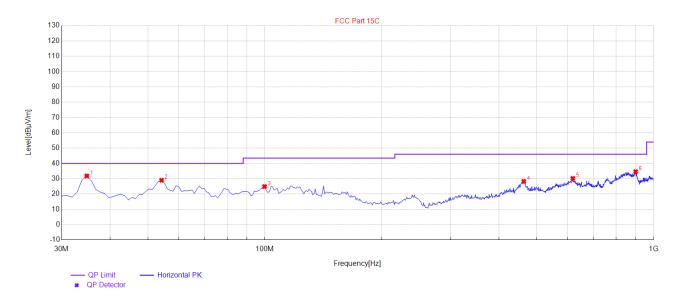


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.85	31.41	11.82	40.00	8.59	100	350	Horizontal
2	98.87	29.33	16.73	43.50	14.17	100	100	Horizontal
3	141.55	25.21	16.13	43.50	18.29	100	50	Horizontal
4	459.71	28.06	24.69	46.00	17.94	100	350	Horizontal
5	626.55	29.91	24.98	46.00	16.09	100	20	Horizontal
6	889.42	35.04	29.79	46.00	10.96	100	240	Horizontal

RESULT: PASS



EUT	4G Smart Phone	Model Name	AGM_H_MAX
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



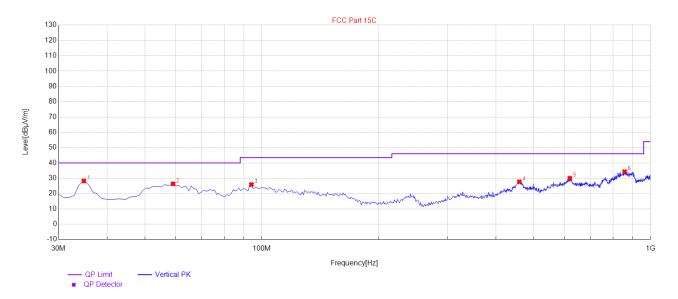
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.85	28.75	11.82	40.00	11.25	100	130	Vertical
2	51.34	23.89	15.58	40.00	16.11	100	100	Vertical
3	92.08	25.02	14.68	43.50	18.48	100	40	Vertical
4	460.68	27.43	24.60	46.00	18.57	100	120	Vertical
5	618.79	29.85	25.79	46.00	16.15	100	330	Vertical
6	861.29	34.73	29.97	46.00	11.27	100	290	Vertical

RESULT: PASS



Radiated emission from 30MHz to 1000MHz

EUT	4G Smart Phone	Model Name	AGM_H_MAX
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal

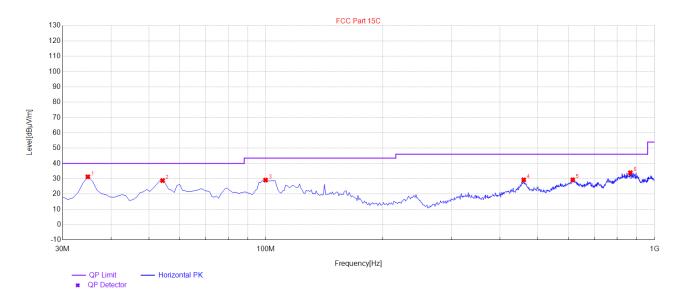


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.85	31.63	11.82	40.00	8.37	100	290	Horizontal
2	54.25	28.75	16.35	40.00	11.25	100	250	Horizontal
3	102.75	29.82	16.93	43.50	13.68	100	170	Horizontal
4	459.71	28.00	24.69	46.00	18.00	100	290	Horizontal
5	617.82	29.48	25.68	46.00	16.52	100	320	Horizontal
6	888.45	35.95	29.74	46.00	10.05	100	360	Horizontal

RESULT: PASS



EUT	4G Smart Phone	Model Name	AGM_H_MAX
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.85	29.19	11.82	40.00	10.81	100	0	Vertical
2	58.13	27.49	17.38	40.00	12.51	100	200	Vertical
3	101.78	25.84	16.98	43.50	17.66	100	330	Vertical
4	458.74	29.17	24.42	46.00	16.83	100	230	Vertical
5	616.85	29.90	25.57	46.00	16.10	100	130	Vertical
6	899.12	34.63	30.26	46.00	11.37	100	240	Vertical

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz/5745MHz are the worst case and recorded in the test report.

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

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



Page 21 of 27

Radiated emission above 1GHz

EUT	4G Smart Phone	Model Name	AGM_H_MAX
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре				
10360.000	50.11	9.14	59.25	68.20	-8.95	peak				
15540.000	50.63	10.22	60.85	74.00	-13.15	peak				
15540.000	31.79	10.22	42.01	54.00	-11.99	AVG				
Remark:	Remark:									
Factor = Antenna Fact	Factor = Antenna Factor + Cable Loss - Pre-amplifier									

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

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре				
10360.000	48.99	9.14	58.13	68.20	-10.07	peak				
15540.000	47.39	10.22	57.61	74.00	-16.39	peak				
15540.000	32.33	10.22	42.55	54.00	-11.45	AVG				
Remark:	Remark:									
Factor = Antenna Factor	Factor = Antenna Factor + Cable Loss – Pre-amplifier.									



Report No.: AGC00408230802FR04A Page 22 of 27

EUT	4G Smart Phone	Model Name	AGM_H_MAX
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5200MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
10400.000	49.36	9.14	58.50	68.20	-9.70	peak
15600.000	48.12	10.22	58.34	74.00	-15.66	peak
15600.000	30.20	10.22	40.42	54.00	-13.58	AVG
Remark:						
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Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type				
10400.000	49.47	9.14	58.61	68.20	-9.59	peak				
15600.000	48.12	10.22	58.34	74.00	-15.66	peak				
15600.000	32.33	10.22	42.55	54.00	-11.45	AVG				
Remark:	Remark:									
Factor = Antenna Fact	Factor = Antenna Factor + Cable Loss – Pre-amplifier.									



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EUT	4G Smart Phone	Model Name	AGM_H_MAX
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
10480.000	50.12	9.27	59.39	68.20	-8.81	peak	
15720.000	48.93	10.38	59.31	74.00	-14.69	peak	
15720.000	32.85	10.38	43.23	54.00	-10.77	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Турс	
10480.000	49.17	9.27	58.44	68.20	-9.76	peak	
15720.000	47.35	10.38	57.73	74.00	-16.27	peak	
15720.000	32.05	10.38	42.43	54.00	-11.57	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							



Report No.: AGC00408230802FR04A Page 24 of 27

odel Name	AGM_H_MAX

EUT	4G Smart Phone	Model Name	AGM_H_MAX	
Temperature	25°C	Relative Humidity	60%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode 802.11a20 5745MHz		Antenna	Horizontal/Vertical	

RADIATED EMISSION ABOVE 1GHZ-Horizontal

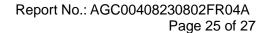
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
11490.000	49.21	9.42	58.63	74.00	-15.37	peak	
11490.000	32.05	9.42	41.47	54.00	-12.53	AVG	
17235.000	42.36	10.51	52.87	68.20	-15.33	peak	
Remark:							
Factor = Antenna Factor + Cable Loss - Pre-amplifier							

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

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
11490.000	49.37	9.42	58.79	74.00	-15.21	peak	
11490.000	31.63	9.42	41.05	54.00	-12.95	AVG	
17235.000	41.55	10.51	52.06	68.20	-16.14	peak	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

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EUT	4G Smart Phone	Model Name	AGM_H_MAX
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5785MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
11570.000	49.74	9.42	59.16	74.00	-14.84	peak	
11570.000	31.25	9.42	40.67	54.00	-13.33	AVG	
17355.000	40.38	10.51	50.89	68.20	-17.31	peak	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
11570.000	48.79	9.42	58.21	74.00	-15.79	peak	
11570.000	30.58	9.42	40.00	54.00	-14.00	AVG	
17355.000 42.33 10.51 52.84 68.20 -15.36 peak							
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

RADIATED EMISSION ABOVE 1GHZ-Vertical



Page 26 of 27

EUT	4G Smart Phone	Model Name	AGM_H_MAX
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
11650.000	50.11	9.62	59.73	74.00	-14.27	peak	
11650.000	34.05	9.62	43.67	54.00	-10.33	AVG	
17475.000 39.77 10.75 50.52 68.20 -17.68 peak							
Remark:							
Factor = Antenna Factor + Cable Loss - Pre-amplifier.							

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
11650.000	49.37	9.62	58.99	74.00	-15.01	peak
11650.000	32.16	9.62	41.78	54.00	-12.22	AVG
17475.000	40.57	10.75	51.32	68.20	-16.88	peak
Remark:						
Factor - Antenna Factor + Cable Loss - Pre-amplifier						

Note:

- All test channels had been tested. The 802.11a20 is the worst case and recorded in the test report.
- Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in 2. the test report.
- 3. Factor = Antenna Factor + Cable loss Amplifier gain, Margin= Limit-Level.
- The "Factor" value can be calculated automatically by software of measurement system.



Page 27 of 27

APPENDIX I: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC00408230802AP01A

APPENDIX II: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC00408230802AP02A

----END OF REPORT----



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- 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.
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