

FCC Test Report

Report No.: AGC00408231006FR03

FCC ID : 2A3DR-M94G

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: 4G Smart phone

BRAND NAME : AGM

MODEL NAME : M9_4G

APPLICANT : AGM MOBILE LIMITED

DATE OF ISSUE : Nov. 07, 2023

FCC Part 22 Subpart H

STANDARD(S) : FCC Part 24 Subpart E

FCC Part 27 Subpart L

REPORT VERSION: V1.0

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



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 07, 2023	Valid	Initial Release

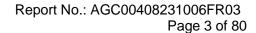




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1. General Information

Applicant	AGM MOBILE LIMITED			
Address	FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG CIRCUIT TUEN			
	MUN NT HONG KONG, CHINA			
Manufacturer	SHENZHEN AIJIEMO SCIENCE AND TECHNOLOGY CO., LTD			
Address	201, Building A2, Huafeng Century Technology Park, Nanchang Community,			
	Xixiang, Baoan District, Shenzhen China			
Factory	SHENZHEN AIJIEMO SCIENCE AND TECHNOLOGY CO., LTD			
A 11	201, Building A2, Huafeng Century Technology Park, Nanchang Community,			
Address	Xixiang, Baoan District, Shenzhen China			
Product Designation	4G Smart phone			
Brand Name	AGM			
Test Model	M9_4G			
Date of receipt of test item	Oct.17, 2023			
Date of Test	Oct.17, 2023~Nov. 07, 2023			
Deviation from Standard	No any deviation from the test method			
Condition of Test Sample	Normal			
Test Result	Pass			
Test Report Form No	AGCER-FCC-GSM&WCDMA-V1			

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By	Bibo Zhang	
	Bibo Zhang (Project Engineer)	Nov. 07, 2023
Reviewed By	Calvin Lin	
	Calvin Liu (Reviewer)	Nov. 07, 2023
Approved By	Max Zhang	
	Max Zhang Authorized Officer	Nov. 07, 2023



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2. Product Information

2.1 Product Technical Description

Support Networks	GSM, GPRS, WCDMA, HSDPA, HSUPA				
Hardware Version	FF615 V3.2				
Software Version	FF615 V3.2				
	⊠GPRS 850	⊠PCS1900	⊠UMTS FDD Band II		
Command Francisco Daniel	⊠UMTS FDD Band IV	☑UMTS FDD Band V	(Non-U.S. Bands)		
Support Frequency Band	⊠GSM 900	☑DCS 1800	⊠UMTS FDD Band I		
	⊠UMTS FDD Band VIII	(Non-U.S. Bands)			
	824.2MHz-848.8MHz (GS	SM/GPRS 850)			
	1850.2MHz-1909.8MHz (GSM/GPRS 1900)			
Frequency Range	1852.4MHz-1907.6MHz (1852.4MHz-1907.6MHz (WCDMA Band II)			
	1712.4MHz-1752.6MHz (WCDMA Band IV)				
	826.4MHz-846.6 MHz (WCDMA Band V)				
Type of Modulation	GMSK/8PSK Modulation For GSM/GPRS				
Type of Modulation	BPSK/QPSK Modulation For WCDMA/HSDPA/HSUPA				
	GSM/GPRS 850:	PRS 850: 249KGXW			
	GSM/GPRS 1900:	247KGXW			
Emission Designator	WCDMA Band II:	4M17F9W			
	WCDMA Band IV:	4M17F9W			
	WCDMA Band V:	4M15F9W			
Antenna Designation	PIFA Antenna	PIFA Antenna			
Antenna Gain	GSM850:-1.42dBi	PCS1900:-1.94dBi			
Antenna Gain	WCDMA850:-1.42dBi	WCDMA1700:-2.1dBi	WCDMA1900:-1.94dBi		
Power Supply	DC 3.70V by Built-in Li-ion Battery or DC 5V by adapter				
Dual Card	GSM /WCDMA Card Slot				
Extreme Vol. Limits	DC3.15V to 4.20V (Normal: DC 3.7V)				
Extreme Temp. Tolerance	-30 °C to +50 °C				
Temperature Range	-20 °C to +50 °C				
		•	-		



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GSM/WCDMA SLOT 1:

	Maximum ERP/EIRP	Max. Average	
	(dBm)	Burst Power (dBm)	
GSM 850	30.14	33.18	
PCS 1900	28.83	30.22	
UMTS BAND V	20.27	22.18	
UMTS BAND II	21.05	22.88	
UMTS BAND IV	23.66	25.59	

GSM/WCDMA SLOT 2:

	Maximum ERP/EIRP	Max. Average		
	(dBm)	Burst Power (dBm)		
GSM 850	31.12	32.07		
PCS 1900	28.10	29.31		



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2.2 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2A3DR-M94G**, filing to comply with Part 2, Part 22/24/27 of the Federal Communication Commission rules.

2.3 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title		
1	47 CFR FCC Part 2	Frequency allocations and radio treaty matters, general rules and regulations.		
2	47 CFR FCC Part 22 Public Mobile Services.			
3	47 CFR FCC Part 24 Personal Communications Services.			
4	47 CFR FCC Part 27 Miscellaneous Wireless Communications Services.			
5	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters		
)		Used in Licensed Radio Services		
6	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and		
0	ANSI/11A-003-E-2010	Performance Standards		
7	KDB 971168	D01 v03r01 Measurement Guidance For Certification Of Licensed Digital		
/		Transmitters.		

2.4 Device Capabilities

850/1900 GSM/GPRS,850/1700/1900 WCDMA/HSPA, Multi-Band LTE, Bluetooth (1X,EDR,LE).

For emissions from 1GHz – 18GHz, low, mid, and high channels were tested with highest power and worst case configuration.

The emissions below 1GHz and above 18GHz were tested with the highest transmitting power channel and the worst case configuration.

The EUT was manipulated through three orthogonal planes of X-orientation (flatbed), Y-orientation (landscape), and Z-orientation (portrait) during the testing. Only the worst case emissions were reported in this test report.

This device supports dual-SIM communication, and only the data corresponding to the worst card slot (SIM Card 1) is reflected in the report.

2.5 Special Accessories

The battery was supplied by the applicant were used as accessories and being tested with EUT intended for FCC grant together.

2.6 Equipment Modifications

Not available for this EUT intended for grant.



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2.7 Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand



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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 follow 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 follow 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	15~35 ℃	-30℃~50℃	
Humidty range	20 % to 75 %.	20 % to 75 %.	
Pressure range	86-106kPa	86-106kPa	
Power supply	DC 3.70V	DC 3.15V or DC 4.2V	

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

3.4 Measurement Uncertainty

Test	Measurement Uncertainty		
Transmitter power conducted	±0.57 dB		
Transmitter power Radiated	±2.20 dB		
Conducted spurious emission 9kHz-40 GHz	±2.20 dB		
Occupied Bandwidth	±0.01ppm		
Radiated Emission 30~1000MHz	±4.10dB		
Radiated Emission Above 1GHz	±4.32dB		
Conducted Disturbance:0.15~30MHz	±3.20dB		
Radio Frequency	± 6.5 x 10-8		
RF Power, Conducted	± 0.9 dB		

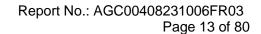
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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3.5 List of Test Equipment

• 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)	
\boxtimes	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023-02-18	2024-02-17	
\boxtimes	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31	
\boxtimes	AGC-ER-E032	Universal Radio Communication Tester	R&S	CMW500	120909	2023-07-05	2024-07-04	
	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2022-03-12	2024-03-11	
\boxtimes	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10	
\boxtimes	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2023-01-05	2024-01-04	
\boxtimes	AGC-EM-E029	Broadband Ridged Horn Antenna	ETS	3117	00034609	2023-03-23	2024-03-22	
\boxtimes	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2023-06-03	2024-06-02	
	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2021-10-31	2023-10-30	
\boxtimes	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03	
	AGC-EM-E021	Pre-amplifier	MITEQ	AM-4A-000115	1465421	2022-06-08	2024-06-07	
\boxtimes	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2023-06-01	2024-05-31	
\boxtimes	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	2023-06-09	2024-06-08	
\boxtimes	AGC-EM-A113	Band Stop Filter (825-850MHz)	MICRO-TRONICS	BRC50717	N/A	2023-06-01	2024-05-31	
	AGC-EM-A114	Band Stop Filter (880-890MHz)	MICRO-TRONICS	BRC50718	N/A	2023-06-01	2024-05-31	
\boxtimes	AGC-EM-A115	Band Stop Filter (1710-1785MHz)	MICRO-TRONICS	BRC50719	N/A	2023-06-01	2024-05-31	
\boxtimes	AGC-EM-A116	Band Stop Filter (1850-1950MHz)	MICRO-TRONICS	BRC50720	N/A	2023-06-01	2024-05-31	
	AGC-EM-A117	Band Stop Filter (1920-1980MHz)	MICRO-TRONICS	BRC50721	N/A	2023-06-01	2024-05-31	





•	Radiated Emission						
Llood	Equipment No.	Equipment No. Test Equipment Manufacturer Model No. Serial No.	Last Cal. Date	Next Cal. Date			
Used	Equipment No.		Senai No.	(YY-MM-DD)	(YY-MM-DD)		
	AGC-EM-E046	EMI Test Receiver	R&S	ESCI	10096	2023-02-18	2024-02-17
\boxtimes	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2023-06-03	2024-06-02
\boxtimes	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2023-06-01	2024-05-31
\boxtimes	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
\boxtimes	AGC-EM-E001	Wideband Antenna	SCHWARZBECK	VULB9168	D69250	2023-05-11	2025-05-10
\boxtimes	AGC-EM-E029	Broadband Ridged	ETS	3117	00034609	2023-03-23	2024-03-22
	AGC-EIVI-EU29	Horn Antenna	E13	3117	00034609	2023-03-23	2024-03-22
	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2022-08-04	2024-08-03

• [RF Conducted Test System						
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
\boxtimes	AGC-ER-E087	Spectrum Analyzer	KEYSIGHT	N9020B	MY56101792	2023-06-01	2024-05-31
\boxtimes	AGC-ER-E032	Universal Radio Communication Tester	R&S	CMW500	120909	2023-07-05	2024-07-04
\boxtimes	AGC-ER-E032	Universal Radio Communication Tester	R&S	CMU200	113939	2023-06-01	2024-05-31
\boxtimes	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2022-08-03	2024-08-02
	1	Universal Switch Control Unit	Tonscend	JS	N/A	N/A	N/A
	AGC-ER-E033	RF Test Plat (DECT)	RTX	RTX-2012-HS-RF	N/A	2022-08-04	2024-08-03
\boxtimes		RF Connection Cable	N/A	1#	N/A	Each time	N/A
\boxtimes		RF Connection Cable	N/A	2#	N/A	Each time	N/A

• Te	Test Software				
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
\boxtimes	AGC-ER-S006	GSM Test System	Tonscend	JS1120-4	2.1.6.0
\boxtimes	AGC-ER-S007	WCDMA Test System	Tonscend	JS1120-3	2.1.5.10
\boxtimes	AGC-EM-S011	RSE Test System	Tonscend	TS ⁺ Ver2.1(JS36-RSE)	4.0.0.0



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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 maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of EUT System

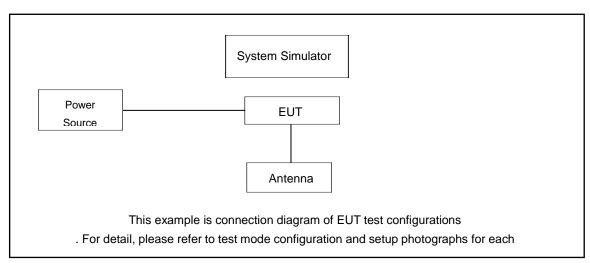


Table 2-1 Equipment Used in EUT System

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	Earphone	N/A	CXT	N/A	1.2m unshielded

□ Test Accessories Come From The Manufacturer

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Adapter	PS06CA050K1000UU	Shenzhen Flypower Technology Co., Ltd	Input: AC 100-240V 50/60Hz, 0.25A Output: DC 5.0V 1A	N/A
2	Battery	AGM_M9	Shenzhen Aerospace Electronic Co.,Ltd.	DC 3.7V 1000mAh	N/A
3	USB Cable	N/A	N/A	N/A	1.0m unshielded

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5. Summary of Test Results

5.1 Test Condition: Conducted Test

Item	Test Description	FCC Rules	Result
1	Occupied Bandwidth	§2.1049	Pass
2	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal	§2.1051, §22.917(a) §24.238(a), §27.53(h)	Pass
3	Conducted Output Power	§2.1046	Pass
4	Frequency stability / variation of ambient temperature	§2.1055, § 22.355 §24.235, §27.54	Pass
5	Peak- to- Average Ratio	§24.232(d), §27.50(d)(5)	Pass

5.2 Test Condition: Radiated Test

Item	Test Description	FCC Rules	Result
1	Effective Radiated Power	§22.913(a)(5)	Pass
2	Equivalent Isotropic Radiated Power	§24.232(c), §27.50(d)(4)	Pass
3	Radiated Spurious and Harmonic Emissions	§2.1053, §22.917(a) §24.238(a), §27.53(h)	Pass



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6. Description of Test Modes

		RF Channel			
Bands	Tx/Rx Frequency	Low(L)	Middle(M)	High(H)	
	TX	Channel 128	Channel 190	Channel 251	
GSM/GPRS 850	(824 MHz ~ 849 MHz)	824.2 MHz	836.6 MHz	848.8 MHz	
	TX	Channel 4132	Channel 4182	Channel 4233	
WCDMA band V	(824 MHz ~ 849 MHz)	826.4 MHz	836.4 MHz	846.6 MHz	

Bands	Tx/Rx Frequency		RF Channel		
Barias	1X/TX/Troquency	Low(L)	Middle(M)	High(H)	
	TX (1850 MHz-1910 MHz)	Channel 512	Channel 661	Channel 810	
GSM/GPRS1900		1850.2 MHz	1880.0 MHz	1909.8 MHz	
	TX	Channel 9262	Channel 9400	Channel 9538	
WCDMA Band II	(1850 MHz-1910 MHz)	1852.4 MHz	1880.0 MHz	1907.6 MHz	

	RF Channel			
Bands	Tx/Rx Frequency	Low(L)	Middle(M)	High(H)
	TX	Channel 1312	Channel 1412	Channel 1513
WCDMA Band IV	(1710 MHz-1755 MHz)	1712.4 MHz	1732.4 MHz	1752.6 MHz

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the worse mode applicability and tested channel detail as below:

Band	Radiated	Conducted
GSM/GPRS 850/1900	GSM (GMSK, 1Tx-slot) Link	GSM (GMSK,1Tx-slot) Link
	GPRS (GMSK, 1Tx-slot) Link	GPRS (GMSK, 1Tx-slot) Link
WCDMA Band II/IV/V	RMC 12.2kbps Link	RMC 12.2kbps Link



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According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1aA: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)		
For all combinations of ,DPDCH,DPCCH	0≤ CM≤3.5	MAY(CM 1.0)		
HS-DPDCH,E-DPDCH and E-DPCCH	US CIVISS.S	MAX(CM-1,0)		
Note: CM=1 for β_c/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH,				

Note: CM=1 for β_0/β_d =12/15, β_{hs}/β_c =24/15. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done. However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensate for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.



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7. Conducted Output Power

7.1 Provisions Applicable

The conduction test is carried out in a shielded room. According to the test, connect the device under test to the antenna port on the non-conductive platform directly to the test device for evaluation and measurement (ANSI-C63.26-2015 Clause 5.4)

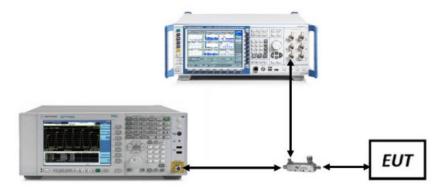
7.2 Measurement Procedure

- > The transmitter output port was connected to base station.
- ➤ The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
- > The path loss was compensated to the results for each measurement.

Measure the maximum burst average power and average power for other modulation signal.

The EUT was setup for the max output power with pseudo random data modulation. Power was measured with Spectrum Analyzer. The measurements were performed on all mode (GSM/GPRS 850, GSM/GPRS 1900, WCDMA/HSPA band II, WCDMA/HSPA band IV, WCDMA/HSPA band V)at 3 typical channels (the Top Channel, the Middle Channel and the Bottom Channel) for each band.

7.3 Measurement Setup



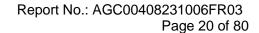


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7.4 Measurement Result

GSM 850 Maximum Average Power (dBm)						
Channel	128	190	251			
Frequency (MHz)	824.2 MHz	836.6 MHz	848.8 MHz			
GSM (GMSK, 1Tx-slot)	33.18	33.17	33.02			
GPRS (GMSK, 1Tx-slot)	33.17	33.07	32.93			
GPRS (GMSK, 2Tx-slot)	30.12	30.05	30.10			
GPRS (GMSK, 3Tx-slot)	28.26	28.51	28.09			
GPRS (GMSK, 4Tx-slot)	26.74	26.23	26.14			

PCS 1900 Maximum Average Power (dBm)						
Channel	512	661	810			
Frequency (MHz)	1850.2 MHz	1880.0 MHz	1909.8 MHz			
GSM (GMSK, 1Tx-slot)	30.12	30.12	29.96			
GPRS (GMSK, 1Tx-slot)	30.22	30.18	30.02			
GPRS (GMSK, 2Tx-slot)	28.18	28.53	28.14			
GPRS (GMSK, 3Tx-slot)	26.56	26.74	26.66			
GPRS (GMSK, 4Tx-slot)	25.01	24.96	24.87			





WCDMA Band II Maximum Average Power (dBm)						
Channel	9262	9400	9538			
Frequency (MHz)	1852.4 MHz	1880.0 MHz	1907.6 MHz			
RMC 12.2kbps	22.66	22.88	22.75			
HSDPA Subtest-1	21.74	22.10	20.70			
HSDPA Subtest-2	21.33	22.59	20.17			
HSDPA Subtest-3	21.33	21.56	20.23			
HSDPA Subtest-4	21.33	21.61	20.20			
HSUPA Subtest-1	21.77	22.79	21.83			
HSUPA Subtest-2	22.37	23.34	22.31			
HSUPA Subtest-3	22.76	23.24	22.19			
HSUPA Subtest-4	22.81	23.51	22.43			
HSUPA Subtest-5	24.37	22.30	21.16			

	WCDMA Band IV Maximum Average Power (dBm)						
Channel	1312	1412	1513				
Frequency (MHz)	1712.4 MHz	1732.4 MHz	1752.6 MHz				
RMC 12.2kbps	23.19	25.59	24.69				
HSDPA Subtest-1	22.74	23.99	28.47				
HSDPA Subtest-2	22.82	24.12	28.58				
HSDPA Subtest-3	22.83	24.18	28.63				
HSDPA Subtest-4	22.93	24.27	28.33				
HSUPA Subtest-1	22.73	23.99	28.39				
HSUPA Subtest-2	23.07	24.52	28.97				
HSUPA Subtest-3	22.92	24.17	28.57				
HSUPA Subtest-4	23.23	24.87	29.31				
HSUPA Subtest-5	23.56	25.05	28.96				



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WCDMA Band V Maximum Average Power (dBm)							
Channel	4132	4182	4233				
Frequency(MHz)	826.4 MHz	836.4 MHz	846.6 MHz				
RMC 12.2kbps	22.18	22.03	21.80				
HSDPA Subtest-1	22.17	21.00	20.40				
HSDPA Subtest-2	22.36	22.20	21.60				
HSDPA Subtest-3	21.68	21.78	20.11				
HSDPA Subtest-4	22.73	22.78	21.14				
HSUPA Subtest-1	22.49	20.68	21.00				
HSUPA Subtest-2	21.10	21.99	22.35				
HSUPA Subtest-3	21.59	21.98	21.32				
HSUPA Subtest-4	22.13	22.84	21.17				
HSUPA Subtest-5	21.69	21.23	21.56				



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8. Radiated Output Power

8.1 Provisions Applicable

The radiation test is carried out in a semi-anechoic chamber.

According to the test, put the device under test on a non-conductive platform 3 meters away from the receiving antenna (ANSI/TIA-603-E-2016 Article 2.2.17).

The following rules are for the maximum radiated power limit requirements of the product:

Mode	Nominal Peak Power
GSM 850	< 7 Watts max. ERP (38.45dBm)
PCS 1900	< 2 Watts max. EIRP (33dBm)
WCDMA Band II	< 2 Watts max. EIRP (33dBm)
WCDMA Band IV	< 1 Watts max. EIRP (30dBm)
WCDMA Band V	< 7 Watts max. ERP (38.45dBm)

8.2 Measurement Procedure

- 1. Radiated power measurements are performed using the signal analyzer's "channel power"
- 2. measurement capability for signals with continuous operation.
- 3. RBW = 1 5% of the expected OBW, not to exceed 1MHz
- 4. VBW \geq 3 x RBW
- 5. Span = 1.5 times the OBW
- 6. No. of sweep points > 2 x span / RBW
- 7. Detector = RMS
- 8. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
- 9. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
- 10. Trace mode = trace averaging (RMS) over 100 sweeps
- 11. The trace was allowed to stabilize.



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Radiation Construction Method:

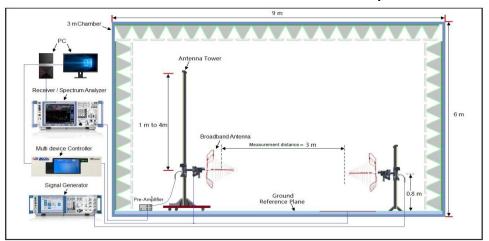
- 1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
- 2. A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
- 3. The power is calculated by the following formula:

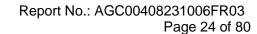
Pd(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dB)

- 4. Where: Pd is the dipole equivalent power and Pg is the generator output power into the substitution antenna.
- 5. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
- 6. The EUT was tested in three orthogonal planes (X, Y, Z) and in all possible test configurations and positioning.
- 7. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

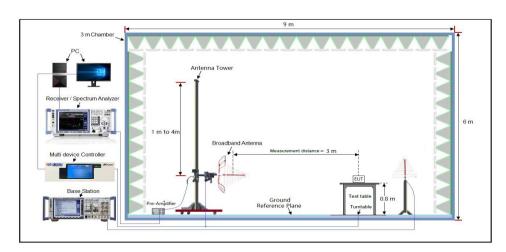
8.3 Measurement Setup

Radiated Power 30MHz to 1GHz Test setup

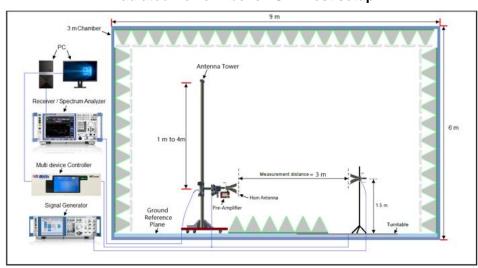


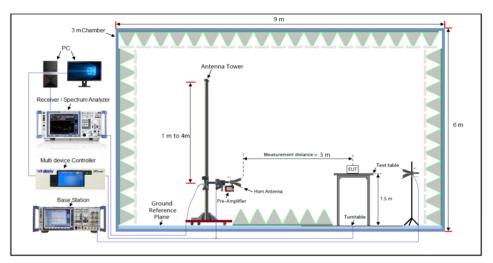






Radiated Power Above 1GHz Test setup





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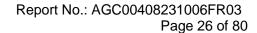
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



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8.4 Measurement Result

	Ch./ Freq.		Substitute	Ant Cain			Limit	EF	RP
Mode	channel	Freq. (MHz)	Level (dBm)	Ant. Gain (dBi)	C.L	Pol.	w	w	dBm
	128	824.2	25.42	5.90	1.21	Н		1.026	30.11
GSM850	190	836.6	25.37	5.90	1.22	Н		1.012	30.05
	251	848.8	25.49	5.90	1.25	Н		1.033	30.14
	128	824.2	22.53	5.90	1.21	Н		0.527	27.22
GPRS	190	836.6	22.50	5.90	1.22	Н	7.00	0.522	27.18
	251	848.8	22.87	5.90	1.25	Н		0.565	27.52
	4132	826.4	15.46	5.90	1.21	Н	< 7.00	0.104	20.15
WCDMA850	4183	836.6	15.62	5.90	1.25	Н		0.106	20.27
	4233	846.6	15.44	5.90	1.24	Н	- -	0.102	20.10
	4132	826.4	15.33	5.90	1.21	Н		0.100	20.02
HSPA	4183	836.6	15.46	5.90	1.25	Н		0.103	20.11
	4233	846.6	15.78	5.90	1.24	Н		0.111	20.44





	Ch.	Ch./ Freq.		Ant. Gain			Limit	EII	RP
Mode	channel	Freq. (MHz)	Level (dBm)	(dBi)	C.L	Pol.	w	w	dBm
	512	1850.2	22.34	8.6	2.11	Η		0.764	28.83
PCS1900	661	1880.0	22.11	8.6	2.15	Н		0.718	28.56
	810	1909.8	22.28	8.6	2.15	Η		0.746	28.73
	512	1850.2	20.17	8.6	2.11	Н		0.463	26.66
GPRS	661	1880.0	19.72	8.6	2.15	Н		0.414	26.17
	810	1909.8	19.90	8.6	2.15	Н	< 2.00	0.432	26.35
MODMA	9262	1852.4	14.10	8.6	2.11	Н		0.115	20.59
WCDMA	9400	1880.0	14.60	8.6	2.15	Н		0.127	21.05
1900	9538	1907.6	13.91	8.6	2.15	Н		0.109	20.36
	9262	1852.4	12.56	8.6	2.11	Н		0.080	19.05
HSPA	9400	1880.0	12.66	8.6	2.15	Н		0.081	19.11
	9538	1907.6	12.64	8.6	2.15	Н		0.081	19.09
MODIMA	1312	1712.4	17.41	8.3	2.05	Н		0.232	23.66
WCDMA	1412	1732.4	17.29	8.3	2.05	Н		0.226	23.54
1700	1513	1752.6	17.34	8.3	2.06	Н	4.00	0.228	23.58
	1312	1712.4	14.99	8.3	2.05	Н	< 1.00	0.133	21.24
HSPA	1412	1732.4	14.90	8.3	2.05	Н		0.130	21.15
	1513	1752.6	14.98	8.3	2.06	Н		0.132	21.22

Note:

- 1. EIRP/ERP = Substitute Level (dBm) + Ant. Gain C.L (Cable Loss)
- 2. All polarizations and modes have been tested, only the worst mode is recorded in the report



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9. Peak-to-Average Ratio

9.1 Provisions Applicable

This is the test for the Peak-to-Average Ratio from the EUT.

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

9.2 Measurement Procedure

CCDF Procedure for PAPR:

- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Set the measurement interval as follows:
 - for continuous transmissions, set to 1 ms,
 - or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time
- 4. that is less than or equal to the burst duration.
- 5. Record the maximum PAPR level associated with a probability of 0.1%.

Alternate Procedure for PAPR:

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as P_{Pk} Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and recordas PAvg. Determine the P.A.R. from:

 $P.A.R(dB) = P_{Pk} (dBm) - P_{Avg} (dBm) (P_{Avg} = Average Power + Duty cycle Factor)$

Allow trace to fully stabilize.

Use the peak marker function to determine the peak amplitude level.

■ Test Settings (Peak Power):

The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW \geq 3 × RBW.

- 1. Set the RBW ≥ OBW.
- 2. Set VBW ≥ 3 × RBW.
- 3. Set span ≥ 2 × OBW.

Any report time > 10 & (number of points in sweep) with transmission symbol period). The "Dedicated Testing/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 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



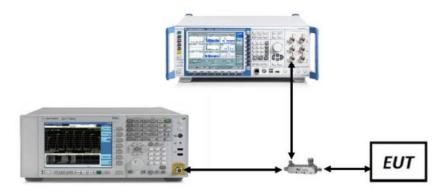
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- 5. Detector = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.
- 8. Use the peak marker function to determine the peak amplitude level.

Test Settings (Average Power)

- Set span to $2 \times$ to $3 \times$ the OBW.
- 2. Set RBW ≥ OBW.
- 3. Set VBW ≥ 3 × RBW.
- 4. Set number of measurement points in sweep ≥ 2 × span / RBW.
- 5. Sweep time: Set ≥ [10 × (number of points in sweep) × (transmission period)] for single sweep (Automation-compatible) measurement. The transmission period is the (on + off) time.
- 6. Detector = power averaging (rms).
- 7. Set sweep trigger to "free run."
- 8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. Add [10 log (1/duty cycle)] to the measured maximum power level to compute the average power during continuous transmission. For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is a constant 25%.

9.3 Measurement Setup





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9.4 Measurement Result

Bands	Modulation	Peak-t	o-average rat	Limit	Result	
Danus	Woddiation	Lowest	Middle	Highest	(dB)	Nesun
OCM 050	GSM	2.65	2.65	2.64	13	Pass
GSM 850	GPRS	2.64	2.65	2.64	13	Pass
DCC 1000	GSM	2.64	2.65	2.64	13	Pass
PCS 1900	GPRS	2.64	2.64	2.65	13	Pass
WCDMA Band II	RMC 12.2kbps	3.26	3.14	3.20	13	Pass
WCDMA Band II	HSUPA	3.35	3.28	3.38	13	Pass
WCDMA Band II	HSDPA	4.36	4.29	4.23	13	Pass
WCDMA Band IV	RMC 12.2kbps	4.02	3.96	4.15	13	Pass
WCDMA Band IV	HSUPA	3.11	3.05	3.12	13	Pass
WCDMA Band IV	HSDPA	3.00	3.07	3.06	13	Pass
WCDMA Band V	RMC 12.2kbps	3.03	2.95	2.99	13	Pass
WCDMA Band V	HSUPA	3.03	2.99	3.02	13	Pass
WCDMA Band V	HSDPA	4.37	4.33	4.36	13	Pass



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10. 99% Occupied Bandwidth and 26dB Emission Bandwidth

10.1 Provisions Applicable

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

The EUT makes a call to the communication simulator.

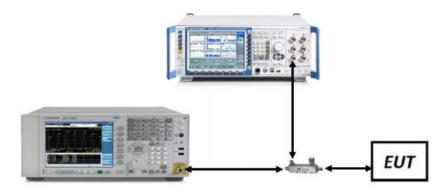
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

10.2 Measurement Procedure

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99%
- 2. Occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by
- 3. any intermediate power nulls in the fundamental emission.
- 4. RBW = 1 5% of the expected OBW
- 5. VBW ≥ 3 x RBW
- 6. Detector = Peak
- 7. Trace mode = max hold
- 8. Sweep = auto couple
- 9. The trace was allowed to stabilize
- 10. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
- 11. 1-5% of the 99% occupied bandwidth observed in Step 7

10.3 Measurement Setup





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10.4 Measurement Result

Test Band	Test Mode	Test Channel	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Verdict
		LCH	248.8	313	Pass
	GSM	MCH	246.7	307	Pass
COMPEO		HCH	249.8	316	Pass
GSM 850	GPRS	LCH	244.4	310	Pass
		MCH	245.3	317	Pass
		HCH	247.2	315	Pass

Test Band	Test Mode	Test Channel	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Verdict
		LCH	246.3	316	Pass
	GSM	MCH	244.7	309	Pass
PCS 1900		HCH	246.7	312	Pass
PCS 1900	GPRS	LCH	243.5	315	Pass
		MCH	245.5	311	Pass
		HCH	244.0	310	Pass

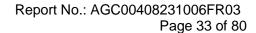
Test Band	Test Mode	Test Channel	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Verdict
WCDMA 850	UMTS	LCH	4.1509	4.674	Pass
		MCH	4.1476	4.667	Pass
		HCH	4.1543	4.666	Pass

Test Band	Test Mode	Test Channel	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Verdict
WCDMA 1900	UMTS	LCH	4.1713	4.693	Pass
		MCH	4.1681	4.693	Pass
		HCH	4.1627	4.695	Pass

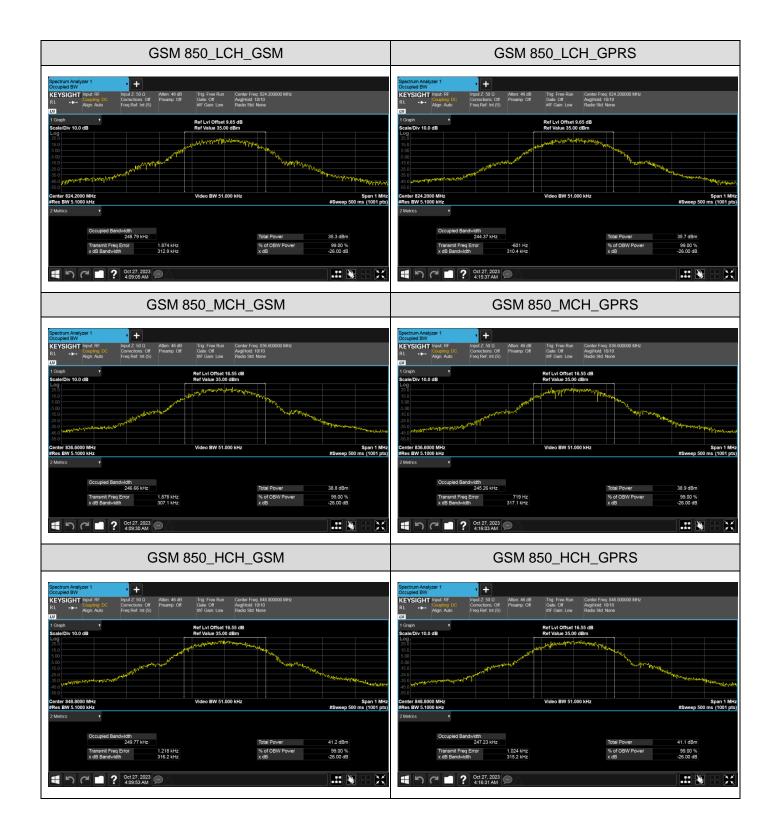


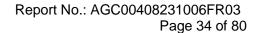
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Test Band	Test Mode	Test Channel	Occupied Bandwidth (kHz)	Emission Bandwidth (kHz)	Verdict
WCDMA 1700	UMTS	LCH	4.1644	4.693	Pass
		MCH	4.1679	4.686	Pass
		HCH	4.1698	4.679	Pass

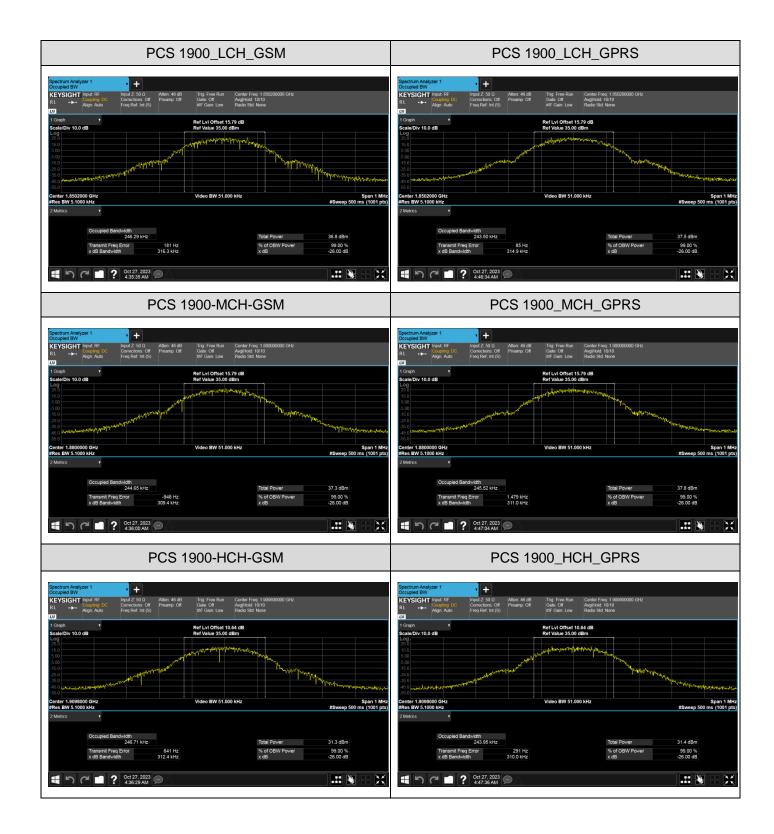


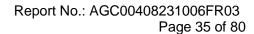




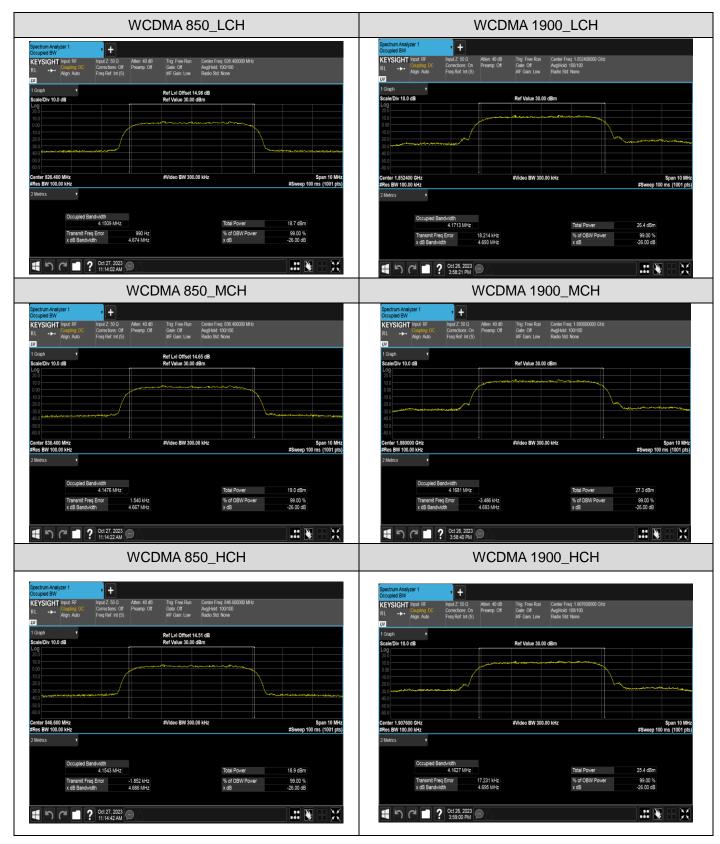






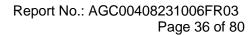






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11. Band Edge Emissions at Antenna Terminal

11.1 Provisions Applicable

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

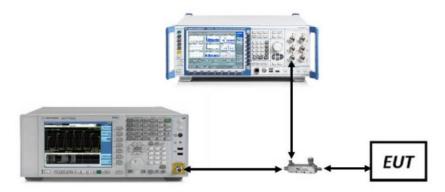
11.2 Measurement Procedure

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- 4. $VBW > 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Test Note

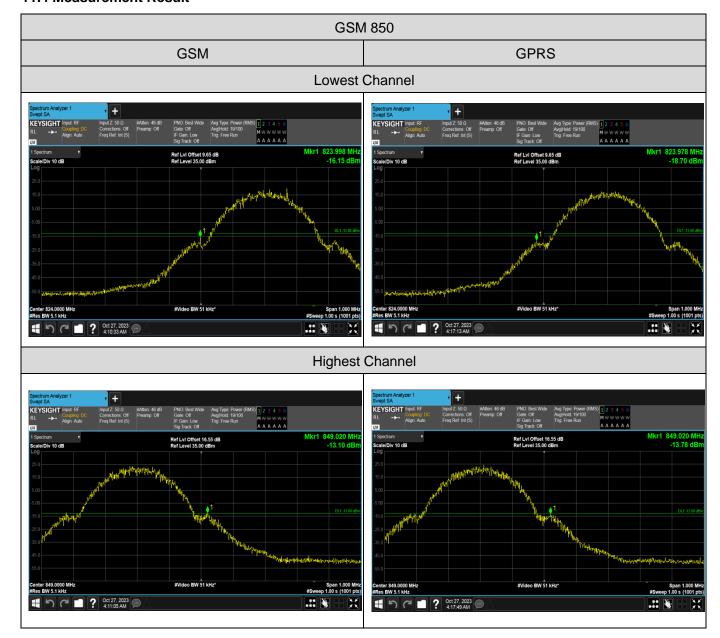
According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of The authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. All measurements were done at 2 channels(low and high operational frequency range.) The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

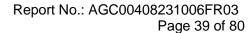
11.3 Measurement Setup



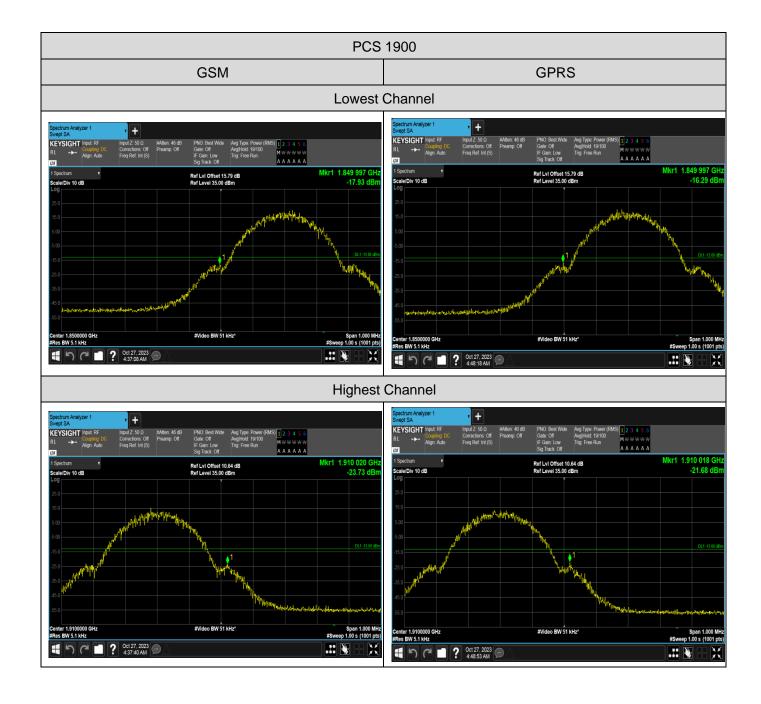


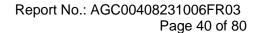
11.4 Measurement Result











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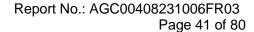


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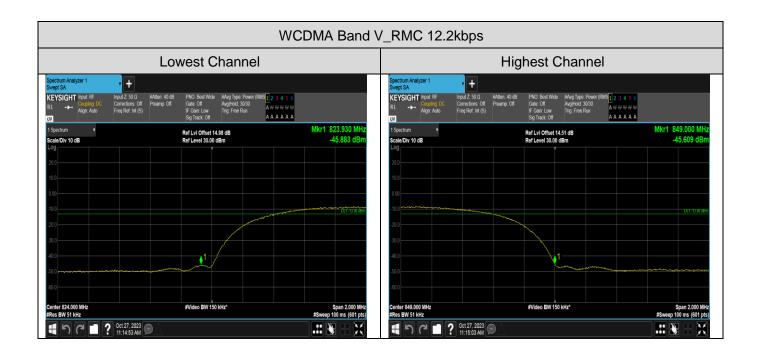
WCDMA Band II_RMC 12.2kbps WCDMA Band IV_RMC 12.2kbps **Lowest Channel** Ö KEYSIGHT Input: RE Mkr1 1.849 900 GF -43,227 dE Stop Freq 1.711000000 GHz AUTO TUNE Auto Man #Video BW 150 kHz Span 2.000 MHz #Sweep 100 ms (601 pts) #Video BW 150 kHz* Center 1.710000 GHz #Res BW 51 kHz 1 9 6 7 9 Oct 26, 2023 9 3:45:51 PM .:: 🤻 **Highest Channel** Ö KEYSIGHT Input: RE Full Span AUTO TUNE #Video BW 150 kHz* #Video BW 150 kHz

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12. Spurious Emissions at Antenna Terminal

12.1 Provisions Applicable

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

12.2 Measurement Procedure

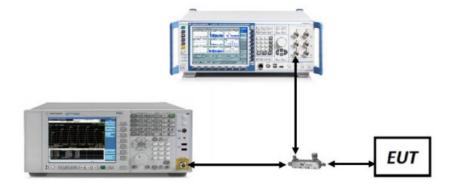
■ Test Settings (GSM)

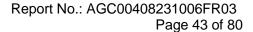
- 1. RBW = 1 MHz
- 2. VBW ≥ 3 MHz
- 3. Detector = Peak
- 4. Trace Mode = max hold
- 5. Sweep time = auto
- 6. Number of points in sweep ≥ 2 x Span / RBW

■ Test Settings (WCDMA)

- 1. RBW = 1 MHz
- 2. VBW ≥ 3 MHz
- 3. Detector = RMS
- Trace Mode = trace average
- 5. Sweep time = auto
- 6. Number of points in sweep ≥ 2 x Span / RBW

12.3 Measurement Setup







12.4 Measurement Result

