



FCC RADIO TEST REPORT FCC ID: SG7201801N505

Product: Smart Phone

Trade Mark: Haier

Model No.: HM-N505-FL

Serial Model: Hurricane

Report No.: SER171226016004E

Issue Date: 16 Jan. 2018

Prepared for

Qingdao Haier telecom Co.,Ltd

No.1 Haier Road, Hi-tech Zone, Qingdao, 266101 China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	Qingdao Haier telecom Co.,Ltd		
Address	No.1 Haier Road, Hi-tech Zone, Qingdao, 266101 China		
Manufacturer's Name:	Qingdao Haier telecom Co.,Ltd		
Address	No.1 Haier Road, Hi-tech Zone, Qingdao, 266101 China		
Product description			
Product name:	Smart Phone		
Model and/or type reference:	HM-N505-FL		
Serial Model:	Hurricane		

Measurement Procedure Used:

Date of Test

APPLICABLE STANDARDS					
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT				
47 CFR Part 2, Part 22H, Part 24E					
ANSI/TIA-603-E-2016	Complied				
FCC KDB 971168 D01 Power Meas License Digital Systems v03	Complied				
ANSI C63.26:2015					

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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26 Dec. 2017 ~ 16 Jan. 2018

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

Testing Engineer	:	Eileen Wu.	
		(Eileen Liu)	
Technical Manager	:	Jason chen	
· ·		(Jason Chen)	
		San . Chen	
Authorized Signatory	:	1. C.	
		(Sam Chen)	

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2 SUMMARY OF TEST RESULTS

FCC Part22, Subpart H/ FCC Part24, Subpart E						
FCC Rule	Test Item	Verdict	Remark			
2.1046	2.1046 Conducted Output Power					
24.232(d)	Peak-to-Average Ratio	PASS				
2.1049 22.917(b) 24.238(b)	Occupied Bandwidth	PASS				
2.1051 22.917(a) 24.238(a)	Band Edge	PASS				
22.913(a)(2)	Effective Radiated Power	PASS				
24.232(c)	Equivalent Isotropic Radiated Power	PASS				
2.1053 22.917(a) 24.238(a)	Field Strength of Spurious Radiation	PASS				
2.1055 22.355 24.235	Frequency Stability for Temperature & Voltage	PASS				
2.1051 22.917(a) 24.238(a)	Conducted Emission	PASS				

Remark:

- "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.
- 3. No modifications are made to the EUT during all test items.

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3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

IC-Registration The Certificate Registration Number is 9270A-1.

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, 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 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification						
Equipment	Smart Phone					
Trade Mark	Haier					
FCC ID	SG7201801N505					
Model No.	HM-N505-FL					
Serial Model	Hurricane					
Model Difference	All models are the same circuit and RF module, except the mode name					
Operating Frequency	 □ GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; □ UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; □ PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; □ UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz; 					
Modulation	□ GMSK for GSM/GPRS; □ 8PSK for EGPRS; □ QPSK for UMTS bands;					
Number of Channels	 ⊠124 Channels for GSM850; ⊠102 Channels for UMTS FDD Band V; ⊠299 Channels for PCS1900; ⊠277 Channels for UMTS FDD Band II; 					
GPRS Class	⊠Multi-Class12 ⊠Only 4 timeslots are used for GPRS					
SIM CARD	The Phone has Two SIM Card socket					
Antenna Type	LDS Antenna					
Antenna Gain	GSM850& WCDMA B5: -2.4dBi; PCS1900& WCDMA B2: -3.2dBi					
Power supply	⊠Adapter supply: Input: AC 100-240V/50-60Hz, 0.5A Output: DC 5V, 2A					
HW Version	H02					
SW Version	L6-H02-S001-AM					
Note: Pased on the application, features, or enecification exhibited in User's Manual, the EUT is considered						

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. The High Voltage 4.43V and Low Voltage 3.66V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

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Revision History

Report No.	Version	Description	Issued Date
SER171226016004E	Rev.01	Initial issue of report	Jan 16, 2018

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5 DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on both GPRS850 and GPRS1900 frequency band.

Note: GSM/GPRS 850, GSM/GPRS 1900, HSDPA band II, HSDPA band II, HSDPA band V, HSUPA band V modes have been tested during the test. the worst condition (GSM850, GSM1900 RMC 12.2k) be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850/UMTS FDD Band V.
- 2. 30 MHz to 10th harmonic for GSM1900/UMTS FDD Band II.

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes					
Band	For Conducted Test Cases	For Radiated Test Cases			
GSM 850 GSM Link		GSM Link			
GSM 1900 GSM Link		GSM Link			
UMTS Band II RMC 12.2Kbps Link		RMC 12.2Kbps Link			
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link			

Test Frequency and Channels:

Frequency	☑ GSM 850		⊠GSM 1900				⊠UMTS Band V	
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8	9538	1907.6	4233	846.6
CH_M	190	836.4	661	1880.0	9400	1880.0	4183	836.4
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4

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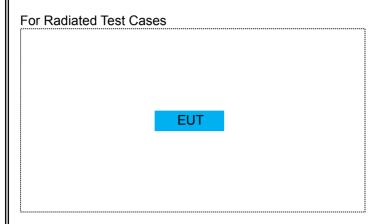






6 SETUP OF EQUIPMENT UNDER TEST

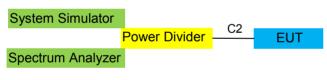
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



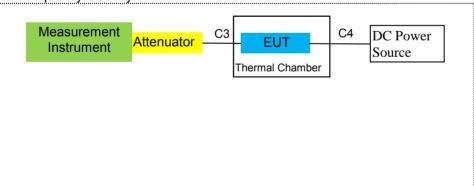
For Conducted Output Power



For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



For Frequency Stability



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6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Note
E-1	Smart Phone	Haier	HM-N505-FL	SG7201801N505	EUT

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	NO	NO	0.5m
C-2	RF Cable	NO	NO	0.5m
C-3	RF Cable	NO	NO	0.5m
C-4	DC Cable	NO	NO	1.0m

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2017.11.10	2018.11.09	1 year
2	Test Receiver	R&S	ESPI	101318	2017.06.06	2018.06.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2017.04.09	2018.04.08	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2017.06.06	2018.06.05	1 year
5	Horn Antenna	EM	EM-AH-1018 0	2011071402	2017.07.06	2018.07.05	1 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2017.04.09	2018.04.08	1 year
7	Amplifier	EM	EM-30180	060538	2017.08.09	2018.08.08	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2017.06.06	2018.06.05	1 year
9	Power Meter	R&S	NRVS	100696	2017.08.09	2018.08.08	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2017.06.06	2018.06.05	1 year
11	Test Cable	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
12	Test Cable	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	Test Receiver	R&S	ESCI	101160	2017.06.06	2018.06.05	1 year
15	LISN	R&S	ENV216	101313	2017.04.19	2018.04.18	1 year
16	LISN	EMCO	3816/2	00042990	2017.06.06	2018.06.05	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2017.06.06	2018.06.05	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2017.04.21	2020.04.20	3 year
19	Test Cable	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
20	Test Cable	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
21	Test Cable	N/A	C03	N/A	2017.04.19	2018.04.18	1 year
22	Attenuator	MCE	24-10-34	BN9258	2017.04.10	2018.04.09	1 year
23	Spectrum Analyzer	agilent	e4440a	us44300399	2017.06.06	2018.06.05	1 year
24	test receiver	R&S	ESCI	a0304218	2017.06.06	2018.06.05	1 year
25	Communication Tester	R&S	CMU200	A0304247	2017.11.10	2018.11.09	1 year
26	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2017.06.06	2018.06.05	1 year
27	DC Power Source	N/A	PS-6005D	2017040292 3	2017.06.06	2020.06.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& DC Power Source which is scheduled for calibration every 3 years.

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7 TEST REQUIREMENTS

7.1 FIELD STRENGTH OF SPURIOUS RADIATION

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

7.1.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

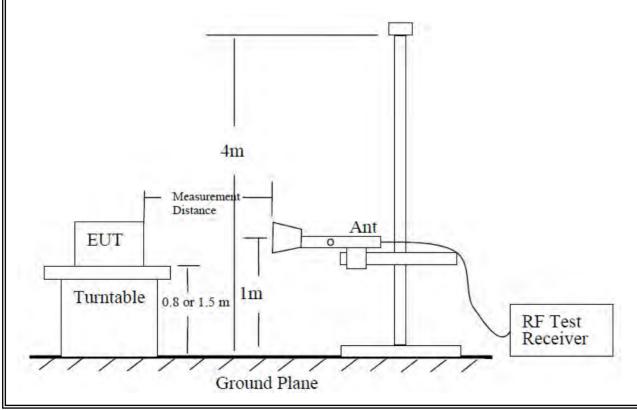
7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration

According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II / WCDMA Band V / GSM 850 / GSM 1900.

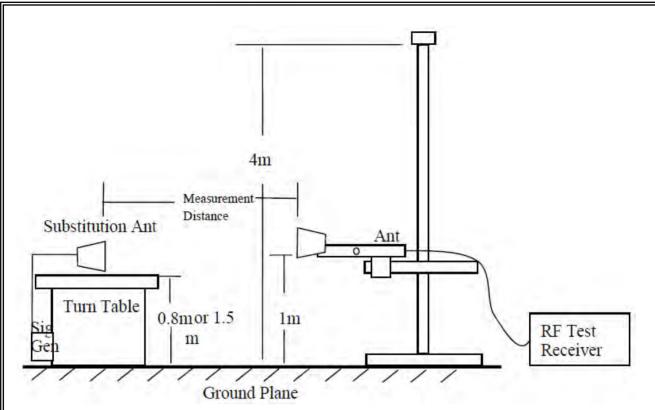
TEST CONFIGURATION



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7.1.5 Test Procedure

- 1. EUT was placed on a 0.8 meter(For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss) ,the Substitution Antenna Gain should be recorded after test.

The measurement results are obtained as described below:

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Power(EIRP)= SG Level- Cable Loss+ Antenna Gain

- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

7.1.6 Test Results

EUT:	Smart Phone	Model No.:	HM-N505-FL
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V	Test By:	Eileen Liu

■ Radiated Spurious Emission

			GSN	<i>1</i> 850						
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
	Test Results for Channel 128/824.2 MHz									
1648.4	-53.69	2.80	27.50	-28.99	-13	-15.99	Vertical			
1648.4	-54.17	2.80	27.50	-29.47	-13	-16.47	Horizontal			
2472.6	-50.28	2.91	27.80	-25.39	-13	-12.39	Vertical			
2472.6	-51.11	2.91	27.80	-26.22	-13	-13.22	Horizontal			
3296.8	-53.22	4.02	29.87	-27.37	-13	-14.37	Vertical			
3296.8	-50.29	4.02	29.87	-24.44	-13	-11.44	Horizontal			
	Test Results for Channel 190/836.6 MHz									
1673.2	-51.67	2.80	27.48	-26.99	-13	-13.99	Vertical			
1673.2	-54.49	2.80	27.48	-29.81	-13	-16.81	Horizontal			
2509.8	-54.52	2.91	27.70	-29.73	-13	-16.73	Vertical			
2509.8	-52.98	2.91	27.70	-28.19	-13	-15.19	Horizontal			
3346.4	-53.64	4.02	29.82	-27.84	-13	-14.84	Vertical			
3346.4	-55.51	4.02	29.82	-29.71	-13	-16.71	Horizontal			
		Test Res	sults for Cha	nnel 251/84	8.8 MHz					
1697.6	-52.13	2.80	27.42	-27.51	-13	-14.51	Vertical			
1697.6	-53.26	2.80	27.42	-28.64	-13	-15.64	Horizontal			
2546.4	-51.27	2.91	27.68	-26.50	-13	-13.50	Vertical			
2546.4	-52.65	2.91	27.68	-27.88	-13	-14.88	Horizontal			
3395.2	-52.42	4.02	29.80	-26.64	-13	-13.64	Vertical			
3395.2	-51.46	4.02	29.80	-25.68	-13	-12.68	Horizontal			

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Absolute Level = SG Level- Cable Loss+ Antenna Gain
- 3. Over Limit= Absolute Level (dBm)-Limit(dBm)
- 4.We test both H direction and V direction, recorded worst case direction.

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			GPR	S 850				
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)		
		Test Res	sults for Cha	nnel 128/82	4.2 MHz			
1648.4	-53.26	2.80	27.50	-28.56	-13	-15.56	Vertical	
1648.4	-52.64	2.80	27.50	-27.94	-13	-14.94	Horizontal	
2472.6	-51.59	2.91	27.80	-26.70	-13	-13.70	Vertical	
2472.6	-52.64	2.91	27.80	-27.75	-13	-14.75	Horizontal	
3296.8	-54.47	4.02	29.87	-28.62	-13	-15.62	Vertical	
3296.8	-53.62	4.02	29.87	-27.77	-13	-14.77	Horizontal	
	Test Results for Channel 190/836.6 MHz							
1673.2	-52.21	2.80	27.48	-27.53	-13	-14.53	Vertical	
1673.2	-50.98	2.80	27.48	-26.30	-13	-13.30	Horizontal	
2509.8	-54.46	2.91	27.70	-29.67	-13	-16.67	Vertical	
2509.8	-53.67	2.91	27.70	-28.88	-13	-15.88	Horizontal	
3346.4	-53.65	4.02	29.82	-27.85	-13	-14.85	Vertical	
3346.4	-52.27	4.02	29.82	-26.47	-13	-13.47	Horizontal	
		Test Res	sults for Cha	nnel 251/84	8.8 MHz			
1697.6	-49.97	2.80	27.42	-25.35	-13	-12.35	Vertical	
1697.6	-50.23	2.80	27.42	-25.61	-13	-12.61	Horizontal	
2546.4	-51.64	2.91	27.68	-26.87	-13	-13.87	Vertical	
2546.4	-52.57	2.91	27.68	-27.80	-13	-14.80	Horizontal	
3395.2	-51.16	4.02	29.80	-25.38	-13	-12.38	Vertical	
3395.2	-52.57	4.02	29.80	-26.79	-13	-13.79	Horizontal	

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain

- Over Limit= Absolute Level (dBm)-Limit(dBm)
 We test both H direction and V direction, recorded worst case direction.

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	EGPRS 850								
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
Test Results for Channel 128/824.2 MHz									
1648.4	-49.87	2.80	27.50	-25.17	-13	-12.17	Vertical		
1648.4	-50.41	2.80	27.50	-25.71	-13	-12.71	Horizontal		
2472.6	-50.56	2.91	27.80	-25.67	-13	-12.67	Vertical		
2472.6	-52.28	2.91	27.80	-27.39	-13	-14.39	Horizontal		
3296.8	-49.97	4.02	29.87	-24.12	-13	-11.12	Vertical		
3296.8	-51.11	4.02	29.87	-25.26	-13	-12.26	Horizontal		
Test Results for Channel 190/836.6 MHz									
1673.2	-52.23	2.80	27.48	-27.55	-13	-14.55	Vertical		
1673.2	-50.64	2.80	27.48	-25.96	-13	-12.96	Horizontal		
2509.8	-49.97	2.91	27.70	-25.18	-13	-12.18	Vertical		
2509.8	-53.64	2.91	27.70	-28.85	-13	-15.85	Horizontal		
3346.4	-52.21	4.02	29.82	-26.41	-13	-13.41	Vertical		
3346.4	-48.84	4.02	29.82	-23.04	-13	-10.04	Horizontal		
		Test Res	sults for Cha	nnel 251/84	8.8 MHz				
1697.6	-50.51	2.80	27.42	-25.89	-13	-12.89	Vertical		
1697.6	-48.87	2.80	27.42	-24.25	-13	-11.25	Horizontal		
2546.4	-53.65	2.91	27.68	-28.88	-13	-15.88	Vertical		
2546.4	-51.19	2.91	27.68	-26.42	-13	-13.42	Horizontal		
3395.2	-52.27	4.02	29.80	-26.49	-13	-13.49	Vertical		
3395.2	-49.97	4.02	29.80	-24.19	-13	-11.19	Horizontal		

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.

- We work tested all Goringulation recipied to 17 10 10 4 12 1.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)
 We test both H direction and V direction, recorded worst case direction.

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			GSM	1900					
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Res	sults for Cha	nnel 512/185	50.2MHz				
3700.4	-53.64	4.04	33.51	-24.17	-13	-11.17	Vertical		
3700.4	-52.59	4.04	33.51	-23.12	-13	-10.12	Horizontal		
5550.6	-53.67	5.24	35.84	-23.07	-13	-10.07	Vertical		
5550.6	-53.64	5.24	35.84	-23.04	-13	-10.04	Horizontal		
	Test Results for Channel 661/1880.0MHz								
3760	-51.16	4.04	33.56	-21.64	-13	-8.64	Vertical		
3760	-54.46	4.04	33.56	-24.94	-13	-11.94	Horizontal		
5640	-53.37	5.24	35.91	-22.7	-13	-9.70	Vertical		
5640	-53.64	5.24	35.91	-22.97	-13	-9.97	Horizontal		
		Test Res	sults for Cha	nnel 810/190	9.8MHz				
3819.6	-55.59	4.04	34.00	-25.63	-13	-12.63	Vertical		
3819.6	-54.29	4.04	34.00	-24.33	-13	-11.33	Horizontal		
5729.4	-52.28	5.24	36.04	-21.48	-13	-8.48	Vertical		
5729.4	-53.64	5.24	36.04	-22.84	-13	-9.84	Horizontal		

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain

- Over Limit= Absolute Level (dBm)-Limit(dBm)
 We test both H direction and V direction, recorded worst case direction.

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			GPRS	S 1900				
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)		
		Test Res	ults for Cha	nnel 512/18	0.2MHz			
3700.4	-54.01	4.04	33.51	-24.54	-13	-11.54	Vertical	
3700.4	-52.70	4.04	33.51	-23.23	-13	-10.23	Horizontal	
5550.6	-53.99	5.24	35.84	-23.39	-13	-10.39	Vertical	
5550.6	-53.64	5.24	35.84	-23.04	-13	-10.04	Horizontal	
Test Results for Channel 661/1880.0MHz								
3760	-52.11	4.04	33.56	-22.59	-13	-9.59	Vertical	
3760	-53.32	4.04	33.56	-23.80	-13	-10.80	Horizontal	
5640	-53.71	5.24	35.91	-23.04	-13	-10.04	Vertical	
5640	-51.14	5.24	35.91	-20.47	-13	-7.47	Horizontal	
		Test Res	sults for Cha	nnel 810/190	9.8MHz			
3819.6	-52.24	4.04	34.00	-22.28	-13	-9.28	Vertical	
3819.6	-52.95	4.04	34.00	-22.99	-13	-9.99	Horizontal	
5729.4	-54.56	5.24	36.04	-23.76	-13	-10.76	Vertical	
5729.4	-53.84	5.24	36.04	-23.04	-13	-10.04	Horizontal	

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)
- 4.We test both H direction and V direction, recorded worst case direction.

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			EGPR	S 1900					
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Res	sults for Cha	nnel 512/185	50.2MHz				
3700.4	-53.13	4.04	33.51	-23.66	-13	-10.66	Vertical		
3700.4	-53.34	4.04	33.51	-23.87	-13	-10.87	Horizontal		
5550.6	-52.64	5.24	35.84	-22.04	-13	-9.04	Vertical		
5550.6	-52.57	5.24	35.84	-21.97	-13	-8.97	Horizontal		
	Test Results for Channel 661/1880.0MHz								
3760	-51.46	4.04	33.56	-21.94	-13	-8.94	Vertical		
3760	-52.67	4.04	33.56	-23.15	-13	-10.15	Horizontal		
5640	-54.46	5.24	35.91	-23.79	-13	-10.79	Vertical		
5640	-53.59	5.24	35.91	-22.92	-13	-9.92	Horizontal		
		Test Res	sults for Cha	nnel 810/190	9.8MHz				
3819.6	-54.41	4.04	34.00	-24.45	-13	-11.45	Vertical		
3819.6	-53.59	4.04	34.00	-23.63	-13	-10.63	Horizontal		
5729.4	-54.48	5.24	36.04	-23.68	-13	-10.68	Vertical		
5729.4	-56.65	5.24	36.04	-25.85	-13	-12.85	Horizontal		

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)
- 4.We test both H direction and V direction, recorded worst case direction.

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			WCDMA	Band II					
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
		Test Res	ults for Char	nel 9262/18	52.4MHz				
3700.8	-54.46	4.04	33.51	-24.99	-13	-11.99	Vertical		
3700.8	-55.58	4.04	33.51	-26.11	-13	-13.11	Horizontal		
5551.2	-54.41	5.24	35.84	-23.81	-13	-10.81	Vertical		
5551.2	-52.29	5.24	35.84	-21.69	-13	-8.69	Horizontal		
	Test Results for Channel 9400/1880MHz								
3760	-53.62	4.04	33.56	-24.10	-13	-11.1	Vertical		
3760	-54.48	4.04	33.56	-24.96	-13	-11.96	Horizontal		
5640	-52.22	5.24	35.91	-21.55	-13	-8.55	Vertical		
5640	-53.36	5.24	35.91	-22.69	-13	-9.69	Horizontal		
		Test Res	ults for Char	nel 9538/19	07.6MHz				
3819.2	-54.46	4.04	34.00	-24.50	-13	-11.50	Vertical		
3819.2	-53.92	4.04	34.00	-23.96	-13	-10.96	Horizontal		
5728.8	-56.67	5.24	36.04	-25.87	-13	-12.87	Vertical		
5728.8	-53.14	5.24	36.04	-22.34	-13	-9.34	Horizontal		

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- Absolute Level = SG Level- Cable Loss+ Antenna Gain
 Over Limit= Absolute Level (dBm)-Limit(dBm)
- 4.We test both H direction and V direction, recorded worst case direction.

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	WCDMA Band V								
Frequency	SG Level	Cable Loss	Antenna Gain	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
Test Results for Channel 4233/846.6MHz									
1673.2	-51.64	2.80	27.5	-26.94	-13	-13.94	Vertical		
1673.2	-52.24	2.80	27.5	-27.54	-13	-14.54	Horizontal		
2509.8	-52.98	2.91	27.8	-28.09	-13	-15.09	Vertical		
2509.8	-54.46	2.91	27.8	-29.57	-13	-16.57	Horizontal		
3346.4	-53.36	4.02	29.87	-27.51	-13	-14.51	Vertical		
3346.4	-51.74	4.02	29.87	-25.89	-13	-12.89	Horizontal		
Test Results for Channel 4182/836.4MHz									
1672.8	-50.82	2.80	27.48	-26.14	-13	-13.14	Vertical		
1672.8	-52.59	2.80	27.48	-27.91	-13	-14.91	Horizontal		
2509.2	-53.56	2.91	27.70	-28.77	-13	-15.77	Vertical		
2509.2	-53.74	2.91	27.70	-28.95	-13	-15.95	Horizontal		
3345.6	-52.22	4.02	29.82	-26.42	-13	-13.42	Vertical		
3345.6	-52.64	4.02	29.82	-26.84	-13	-13.84	Horizontal		
		Test Res	sults for Cha	nnel 4132/82	26.4MHz				
1652.8	-53.69	2.80	27.42	-29.07	-13	-16.07	Vertical		
1652.8	-50.57	2.80	27.42	-25.95	-13	-12.95	Horizontal		
2479.2	-52.27	2.91	27.68	-27.50	-13	-14.50	Vertical		
2479.2	-54.46	2.91	27.68	-29.69	-13	-16.69	Horizontal		
3305.6	-53.97	4.02	29.80	-28.19	-13	-15.19	Vertical		
3305.6	-52.21	4.02	29.80	-26.43	-13	-13.43	Horizontal		

- We were tested all Configuration refer 3GPP TS134 121.
 Absolute Level = SG Level- Cable Loss+ Antenna Gain

- Over Limit= Absolute Level (dBm)-Limit(dBm)
 We test both H direction and V direction, recorded worst case direction.

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7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

7.2.2 Conformance Limit

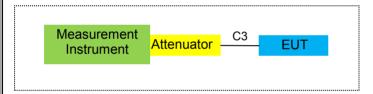
The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.2.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements



7.2.5 Test Procedure

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = SGLevel -Pcl +Ga

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as SGLevel, typically dBW or dBm);

SGLevel = Signal generator output power or PSD, in dBm or dBW;

Ga = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Pcl = signal attenuation in the connecting cable between the transmitter and antenna, in dB.²

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.

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Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

Substitution antenna and Receiving Antenna:

	Taricina a	1				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

	GSM/GPRS	UMTS band
Span	500KHz	10MHz
RBW	10KHz	300KHz
VBW	30KHz	1MHz
Detector	RMS	RMS
Trace	Average	Average
Average Type	Power	Power
Sweep Count	100	100

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7.2.6 Test Results

EUT:	Smart Phone	Model No.:	HM-N505-FL
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS1900 UMTS band II/ UMTS band V	Test By:	Eileen Liu

■ Effective Radiated Power

	Radiated Power (ERP) for GSM850									
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	12.32	2.11	23.84	2.15	31.9	1.54882			
836.6	Н	12.81	2.13	23.15	2.15	31.68	1.47231			
848.8	Н	13.32	2.13	23.06	2.15	32.1	1.62181			
824.2	V	12.68	2.11	23.11	2.15	31.53	1.42233			
836.6	V	12.94	2.13	23.07	2.15	31.73	1.48936			
848.8	V	13.03	2.13	23.25	2.15	32	1.58489			

	Radiated Power (ERP) for GPRS850										
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP				
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)				
824.2	Н	12.56	2.11	23.84	2.15	32.14	1.63682				
836.6	Н	12.67	2.13	23.15	2.15	31.54	1.42561				
848.8	Н	12.8	2.13	23.06	2.15	31.58	1.43880				
824.2	V	12.97	2.11	23.11	2.15	31.82	1.52055				
836.6	V	12.93	2.13	23.07	2.15	31.72	1.48594				
848.8	V	12.92	2.13	23.25	2.15	31.89	1.54525				

	Radiated Power (ERP) for EGPRS850										
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP				
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)				
824.2	Н	5.68	2.11	23.84	2.15	25.26	0.33574				
836.6	Н	5.95	2.13	23.15	2.15	24.82	0.30339				
848.8	Н	6.34	2.13	23.06	2.15	25.12	0.32509				
824.2	V	6.22	2.11	23.11	2.15	25.07	0.32137				
836.6	V	6.58	2.13	23.07	2.15	25.37	0.34435				
848.8	V	5.68	2.13	23.25	2.15	24.65	0.29174				

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Radiated Power (ERP) for UMTS band V										
Radiated Fower (ERF) for OWITS barid V										
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
826.4	Н	1.48	2.11	23.84	2.15	21.06	0.12764			
835	Н	1.72	2.13	23.15	2.15	20.59	0.11455			
846.6	Н	1.96	2.13	23.06	2.15	20.74	0.11858			
826.4	V	1.89	2.11	23.11	2.15	20.74	0.11858			
835	V	2.22	2.13	23.07	2.15	21.01	0.12618			
846.6	V	2.17	2.13	23.25	2.15	21.14	0.13002			

Note:

SG Level= Signal generator output Pcl= cable loss Ga= Antenna Gain Peak EIRP(dBm)= SGLevel -Pcl +Ga

ERP(dBm)=EIRP-2.15

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■ Effective Isotropic Radiated Power

	Radiated Power (E.I.R.P) for GSM1900								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	4.58	3.76	28.24	29.06	0.80538			
1880	Н	4.37	3.91	28.22	28.68	0.73790			
1909.8	Н	4.34	3.93	28.2	28.61	0.72611			
1850.2	V	4.73	3.76	27.32	28.29	0.67453			
1880	V	4.81	3.91	27.33	28.23	0.66527			
1909.8	V	5.27	3.93	27.31	28.65	0.73282			

	Radiated Power (E.I.R.P) for GPRS1900								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	4.67	3.76	28.24	29.15	0.82224			
1880	Н	4.81	3.91	28.22	29.12	0.81658			
1909.8	Н	4.73	3.93	28.2	29	0.79433			
1850.2	V	4.77	3.76	27.32	28.33	0.68077			
1880	V	4.68	3.91	27.33	28.1	0.64565			
1909.8	V	4.97	3.93	27.31	28.35	0.68391			

	Radiated Power (E.I.R.P) for EGPRS1900								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	0.82	3.76	28.24	25.3	0.33884			
1880	Н	0.83	3.91	28.22	25.14	0.32659			
1909.8	Н	0.68	3.93	28.2	24.95	0.31261			
1850.2	V	0.55	3.76	27.32	24.11	0.25763			
1880	V	0.83	3.91	27.33	24.25	0.26607			
1909.8	V	1.05	3.93	27.31	24.43	0.27733			

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	Radiated Power (E.I.R.P) for UMTS band II								
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1852.4	Н	-2.58	3.76	28.24	21.9	0.15488			
1880	Н	-2.82	3.91	28.22	21.49	0.14093			
1907.6	Н	-2.41	3.93	28.2	21.86	0.15346			
1852.4	V	-2.39	3.76	27.32	21.17	0.13092			
1880	V	-2.27	3.91	27.33	21.15	0.13032			
1907.6	V	-1.82	3.93	27.31	21.56	0.14322			

Note:

SG Level= Signal generator output Pcl= cable loss

Ga= Antenna Gain

Peak EIRP(dBm)= SGLevel -Pcl+Ga.

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7.3 CONDUCTED OUTPUT POWER

7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2) and FCC Part 24.232(c) and FCC KDB 971168 D01 v03 Section 5.2

7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency, The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW ≥ 3 × RBW.

Number of points in sweep \geq 2 × span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%.

Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Measure and record the results in the test report.

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7.3.6 Test Results

EUT:	Smart Phone	Model No.:	HM-N505-FL
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS1900 UMTS band II/ UMTS band V	Test By:	Eileen Liu

Output Power for GSM850

Mode	Frequency (MHz)	Maximum Burst-Average Output Power
	824.2	32.71
GSM850	836.6	32.53
	848.8	32.41
GPRS850	824.2	32.67
(1 Slot)	836.6	32.56
	848.8	32.43
GPRS850	824.2	31.86
(2 Slot)	836.6	31.76
	848.8	31.62
GPRS850	824.2	29.94
(3 Slot)	836.6	29.93
	848.8	29.90
GPRS850	824.2	28.96
(4 Slot)	836.6	28.86
	848.8	28.73
EGPRS850	824.2	25.99
(1 Slot)	836.6	25.86
	848.8	25.84
EGPRS850	824.2	24.98
(2 Slot)	836.6	24.76
	848.8	24.78
EGPRS850	824.2	22.86
(3 Slot)	836.6	22.61
	848.8	22.56
EGPRS850	824.2	21.42
(4 Slot)	836.6	21.28
	848.8	21.32

N/A: Not Applicable

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O. 4 4	D f	DOC4000	
CHITCH	Power for	PCS1900	

	Frequency	Maximum Burst-Average
Mode	(MHz)	Output Power
	1850.2	28.97
GSM1900	1880	28.79
	1909.8	28.81
GPRS1900	1850.2	28.96
(1 Slot)	1880	28.79
	1909.8	28.79
GPRS1900	1850.2	27.97
(2 Slot)	1880	27.79
	1909.8	27.78
GPRS1900	1850.2	26.67
(3 Slot)	1880	26.44
	1909.8	26.39
GPRS1900	1850.2	25.63
(4 Slot)	1880	25.37
	1909.8	25.35
EGPRS1900	1850.2	24.97
(1 Slot)	1880	24.73
	1909.8	24.41
EGPRS1900	1850.2	23.86
(2 Slot)	1880	23.67
	1909.8	23.47
EGPRS1900	1850.2	21.98
(3 Slot)	1880	21.70
	1909.8	21.34
EGPRS1900	1850.2	20.89
(4 Slot)	1880	20.56
	1909.8	20.23

N/A: Not Applicable

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Mode		"dalahi"		
WCDMA 1900 RMC 1880 22.80 1907.6 22.28 WCDMA 1900 AMR 1907.6 22.81 WCDMA 1900 AMR 1907.6 22.81 B80 22.81 B80 22.81 B80 22.81 B80 22.81 B80 22.81 B80 22.83 Subtest 1 1880 22.88 Subtest 1 1880 21.56 1907.6 21.29 HSDPA 1852.4 21.32 Subtest 2 1880 21.05 1907.6 20.78 HSDPA 1852.4 21.28 Subtest 3 1880 21.05 1907.6 20.78 HSDPA 1852.4 21.28 Subtest 3 1880 21.05 1907.6 20.80 HSDPA 1852.4 21.26 Subtest 4 1880 21.10 1907.6 20.80 HSUPA 1852.4 21.16 Subtest 1 1880 21.11 1907.6 20.69 HSUPA 1852.4 21.16 Subtest 2 1880 21.11 1907.6 20.69 HSUPA 1852.4 21.15 Subtest 2 1880 21.11 1907.6 20.69 HSUPA 1852.4 21.15 Subtest 2 1880 21.11 1907.6 20.69 HSUPA 1852.4 21.15 Subtest 2 1880 21.11 HSUPA 1852.4 21.13 Subtest 3 1880 21.11 HSUPA 1852.4 21.13 Subtest 4 1880 21.13 Subtest 3 1880 21.11 HSUPA 1852.4 21.13 Subtest 4 1880 21.08 HSUPA 1852.4 21.22 Subtest 4 1880 21.08 HSUPA 1852.4 21.82 Subtest 5 1880 21.53	Output Power for UMTS BAND II			
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HSUPA 1852.4 21.82 Subtest 5 1880 21.53				
Subtest 5 1880 21.53	HSUPA			
	l <u>-</u>			
		1907.6	21.31	

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Output Power for UMTS BAND V

Mode	Frequency(MHz)	Maximum Burst-Average Output Power
WCDMA 850	826.4	22.69
RMC	835	22.69
	846.6	22.79
MODMA 050	826.4	22.74
WCDMA 850 AMR	835	22.65
AIVIR	846.6	22.64
HSDPA	826.4	21.70
Subtest 1	835	21.68
	846.6	21.74
HSDPA	826.4	21.24
Subtest 2	835	21.15
	846.6	21.19
HSDPA	826.4	21.25
Subtest 3	835	21.12
	846.6	21.22
HSDPA	826.4	21.19
Subtest 4	835	21.21
	846.6	21.16
HSUPA	826.4	21.16
Subtest 1	835	21.16
	846.6	21.05
HSUPA	826.4	21.05
Subtest 2	835	20.99
	846.6	21.06
HSUPA	826.4	21.15
Subtest 3	835	21.22
	846.6	20.98
HSUPA	826.4	21.17
Subtest 4	835	21.05
	846.6	21.02
HSUPA	826.4	21.70
Subtest 5	835	21.68
	846.6	21.69

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7.4 FREQUENCY STABILITY

7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC Part 24.235 and FCC KDB 971168 D01 Section 9.0

7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

7.4.6 Test Results

EUT:	Smart Phone	Model No.:	HM-N505-FL
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS 1900 UMTS band II/ UMTS band V	Test By:	Eileen Liu
Results: PASS			

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F	Frequency Error Against Voltage for GSM 850 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.66	16	0.0191	
3.85	19	0.0227	
4.43	22	0.0263	

Frequency Error Against Temperature for GSM 850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	24	0.0287
-20	17	0.0203
-10	11	0.0131
0	9	0.0108
10	15	0.0179
20	23	0.0275
30	30	0.0359
40	31	0.0371
50	29	0.0347

Frequency Error Against Voltage for GPRS850 band			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.66	11	0.0131	
3.85	12	0.0143	
4.43	8	0.0096	

Frequency Error Against Temperature for GPRS850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	15	0.0179
-20	19	0.0227
-10	24	0.0287
0	22	0.0263
10	23	0.0275
20	25	0.0299
30	16	0.0191
40	14	0.0167
50	10	0.0120

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Fr	Frequency Error Against Voltage for EGPRS850 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.66	22	0.0263	
3.85	14	0.0167	
4.43	16	0.0191	

Frequency Error Against Temperature for EGPRS850 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	17	0.0203
-20	18	0.0215
-10	24	0.0287
0	11	0.0131
10	16	0.0191
20	23	0.0275
30	25	0.0299
40	21	0.0251
50	18	0.0215

Note:

- Normal Voltage = 3.85V; Battery End Point (BEP) = 3.66V; Maximum Voltage =4.43V
 The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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F	Frequency Error Against Voltage for PCS 1900 band			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)		
3.66	25	0.0133		
3.85	9	0.0048		
4.43	25	0.0133		

Free	Frequency Error Against Temperature for PCS 1900 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	21	0.0112	
-20	16	0.0085	
-10	17	0.0090	
0	16	0.0085	
10	22	0.0117	
20	23	0.0122	
30	24	0.0128	
40	21	0.0112	
50	26	0.0138	

Frequency Error Against Voltage for GPRS1900 band		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.66	30	0.0160
3.85	29	0.0154
4.43	31	0.0165

Frequency Error Against Temperature for GPRS1900 band		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	34	0.0181
-20	21	0.0112
-10	25	0.0133
0	26	0.0138
10	24	0.0128
20	19	0.0101
30	17	0.0090
40	26	0.0138
50	20	0.0106

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Fre	Frequency Error Against Voltage for EGPRS1900 band						
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)							
3.66	11	0.0059					
3.85 15 0.0080							
4.43 16 0.0085							

Frequency Error Against Temperature for EGPRS1900 band						
Temperature (°C)	Frequency Error (Hz) Frequency Error (ppm)					
-30	17	0.0090				
-20	14	0.0074				
-10	24	0.0128				
0	21	0.0112				
10	23	0.0122				
20	25	0.0133				
30	20	0.0106				
40	19	0.0101				
50	22	0.0117				

Note:

- Normal Voltage = 3.85V; Battery End Point (BEP) = 3.66V; Maximum Voltage =4.43V

 The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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Frequency Error Against Voltage for UMTS band II					
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)					
3.66	20	0.0106			
3.85	21	0.0112			
4.43	19	0.0101			

Frequency Error Against Temperature for UMTS band II						
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)				
-30	25	0.0133				
-20	24	0.0128				
-10	26	0.0138				
0	21	0.0112				
10	27	0.0144				
20	20	0.0106				
30	13	0.0069				
40	15	0.0080				
50	16	0.0085				

Frequency Error Against Voltage for UMTS band V						
Voltage (V)	Voltage (V) Frequency Error (Hz) Frequency Error (ppm)					
3.66 23 0.0275						
3.85 18 0.0215						
4.43 22 0.0263						

Frequency Error Against Temperature for UMTS band V						
Temperature (°C)	Frequency Error (Hz) Frequency Error (ppm)					
-30	20	0.0239				
-20	25	0.0299				
-10	21	0.0251				
0	25	0.0299				
10	26	0.0311				
20	19	0.0227				
30	24	0.0287				
40	20	0.0239				
50	21	0.0251				

Note:

- Normal Voltage = 3.85V; Battery End Point (BEP) = 3.66V; Maximum Voltage =4.43V

 The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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7.5 PEAK-TO-AVERAGE RATIO

7.5.1 Applicable Standard

According to FCC 22.913 and FCC 24.232(d) and FCC KDB 971168 D01 Section 5.7.1

7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function:
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
- 1) for continuous transmissions, set to 1 ms,
- 2) for 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 that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

7.5.6 Test Results

EUT:	Smart Phone	Model No.:	HM-N505-FL
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/ EGPRS 850/ GSM/GPRS/ EGPRS 1900 /UMTS band II/ UMTS band V	Test By:	Eileen Liu
Results: PASS			

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Cellular Band						
Modes		GSM850			GSM1900	
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	2.62	2.62	2.62	2.62	2.62	2.62

Cellular Band						
Modes		GPRS850)		GPRS1900	
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	2.63	2.62	2.62	2.62	2.62	2.62

Cellular Band						
Modes		EGPRS85	0		EGPRS1900	
Channel	128 (Low)	190 (Mid)	251 (High)	512 (Low)	661 (Mid)	810 (High)
Frequency(MHz)	824.2	836.6	848.8	1850.2	1880	1909.8
Peak-to-Average Ratio (dB)	2.62	2.61	2.61	2.61	2.61	2.62

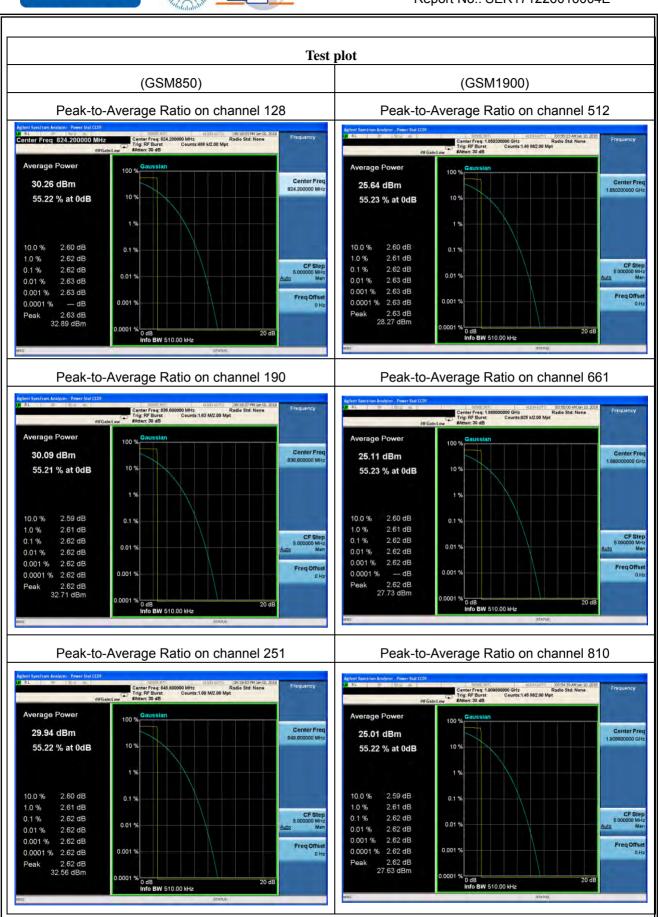
UMTS Band						
Modes		WCDMA Bar (RMC 12.2Kt	· ·		WCDMA Band RMC 12.2Kbp	
Channel	9262 (Low)	9400 (Mid)	9538 (High)	4132 (Low)	4175 (Mid)	4233 (High)
Frequency(MHz)	1852.4	1880	1907.6	826.4	836.6	846.6
Peak-to-Average Ratio (dB)	2.98	2.88	2.83	3.63	2.85	2.73

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NTEK

Report No.: SER171226016004E



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NTEK

Report No.: SER171226016004E

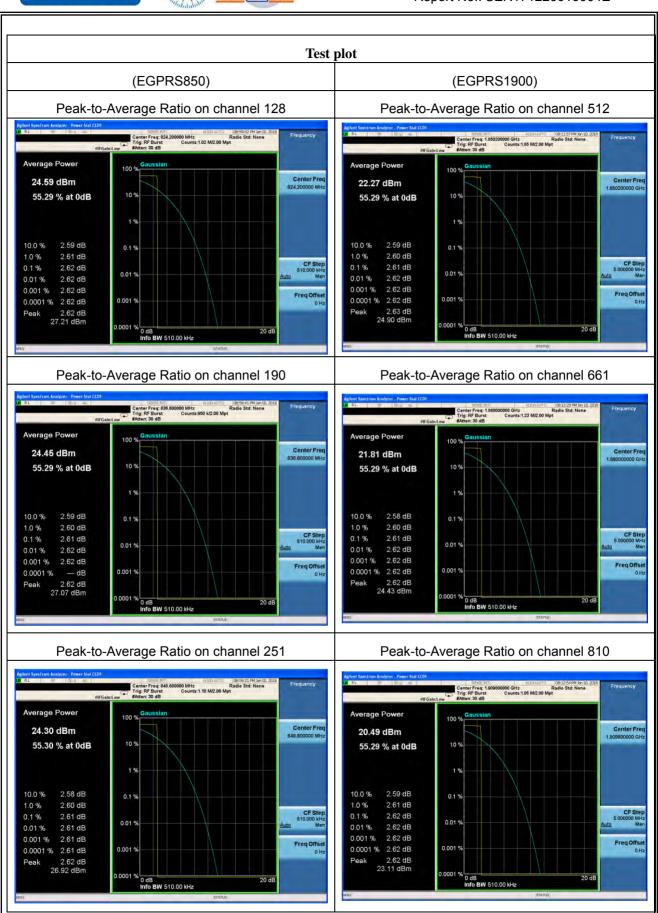


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NTEK

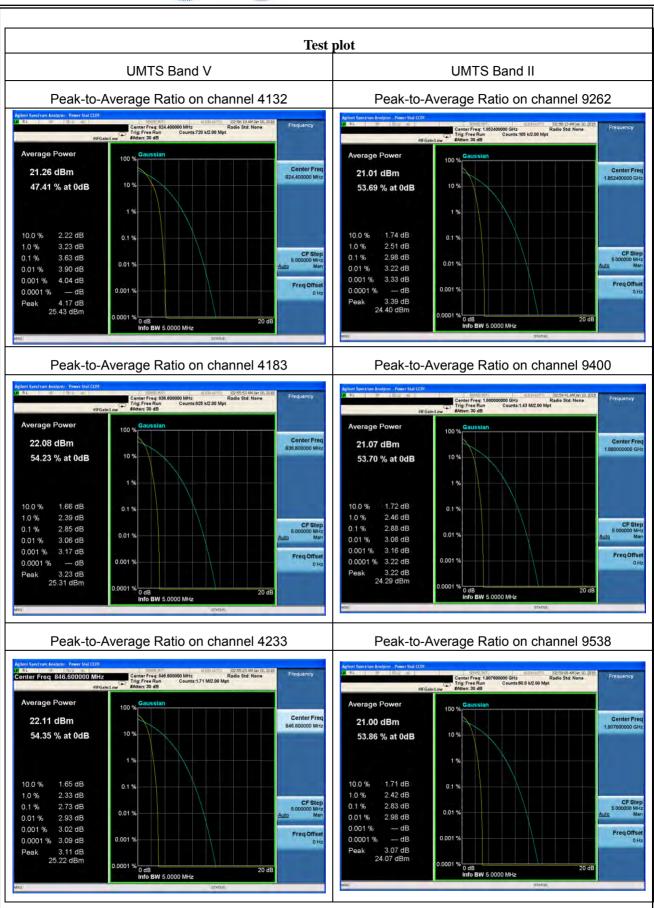
Report No.: SER171226016004E



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7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

7.6.1 Applicable Standard

According to FCC Part 2.1049 and FCC Part 22H and FCC Part 24E and FCC KDB 971168 D01 Section 4.0

7.6.2 Conformance Limit

The occupied bandwidth is 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 transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 4.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value – X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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7.6.6 Test Results

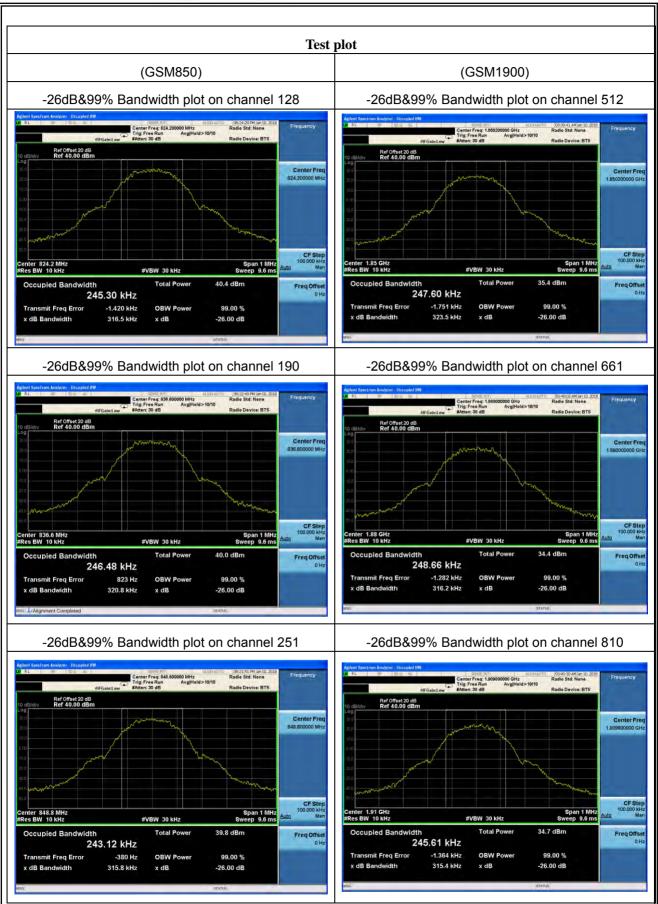
EUT:	Smart Phone	Model No.:	HM-N505-FL
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900 /UMTS band II/ UMTS band V	Test By:	Eileen Liu
Results: PASS			

Operation Mode	Channel Number	Channel Frequency (MHz)	26dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)	Verdict
	128	824.2	316.5	245.30	N/A	PASS
GSM850	190	836.4	320.8	246.48	N/A	PASS
	251	848.8	315.8	243.12	N/A	PASS
	512	1850.2	323.5	247.60	N/A	PASS
GSM1900	661	1880.0	316.2	248.66	N/A	PASS
	810	1909.8	315.4	245.61	N/A	PASS
	128	824.2	321.8	243.71	N/A	PASS
GPRS850	190	836.4	318.0	247.99	N/A	PASS
	251	848.8	318.2	244.44	N/A	PASS
	512	1850.2	319.7	242.96	N/A	PASS
GPRS1900	661	1880	322.1	245.52	N/A	PASS
	810	1909.8	320.8	244.40	N/A	PASS
	128	824.2	317.4	242.85	N/A	PASS
EGPRS850	190	836.4	322.0	247.16	N/A	PASS
	251	848.8	322.0	247.95	N/A	PASS
	512	1850.2	321.4	242.91	N/A	PASS
EGPRS1900	661	1880	317.2	245.15	N/A	PASS
	810	1909.8	317.2	248.72	N/A	PASS
LIMTO Dand	4132	826.4	4873	4193.2	N/A	PASS
UMTS Band · V	4183	836.4	4866	4192.9	N/A	PASS
	4233	846.6	4868	4200.9	N/A	PASS
LIMTO Down	9262	1852.4	4849	4195.7	N/A	PASS
UMTS Band II	9400	1880.0	4863	4203.4	N/A	PASS
	9538	1907.6	4865	4194.0	N/A	PASS

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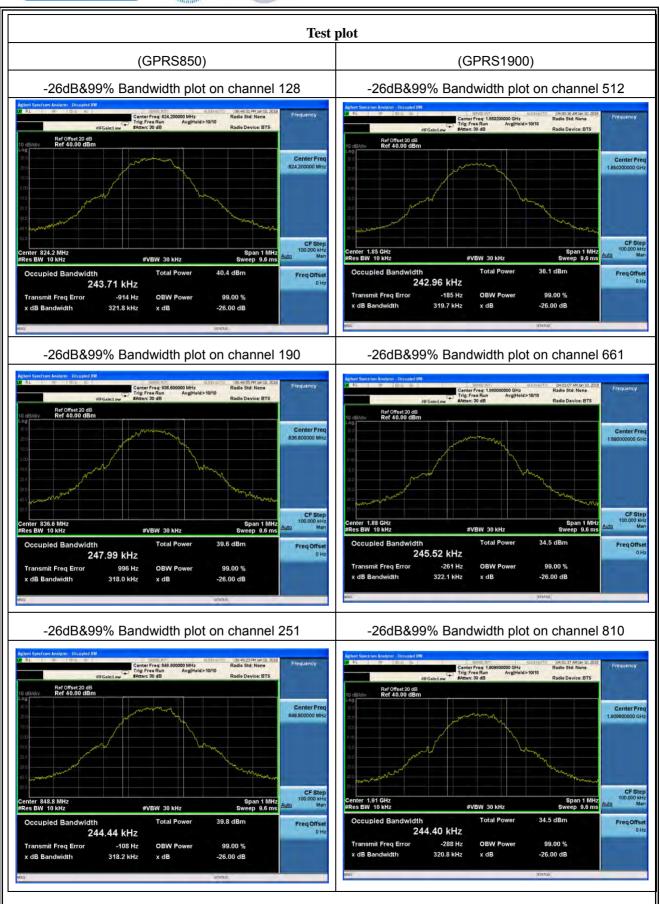




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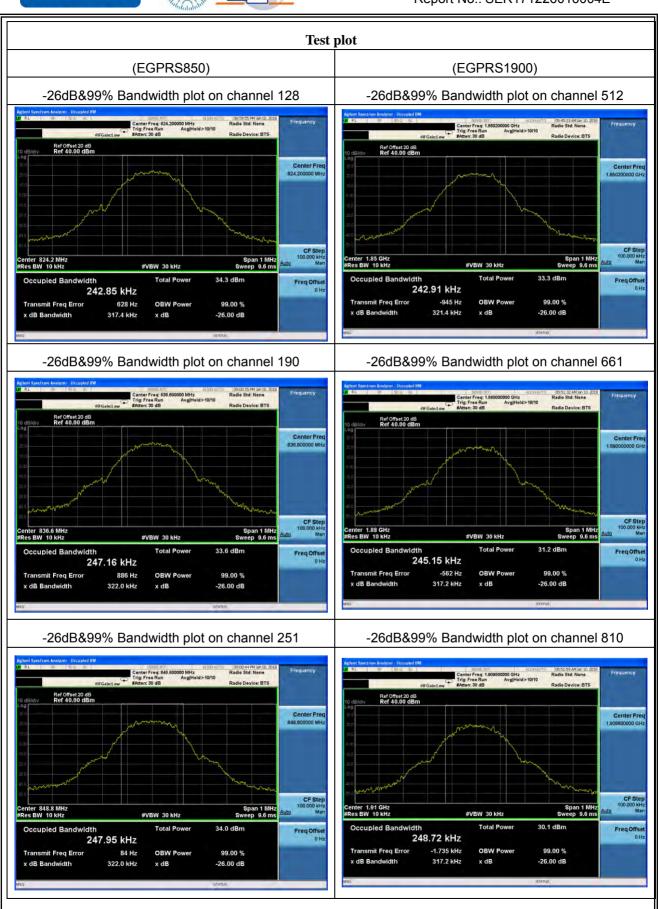




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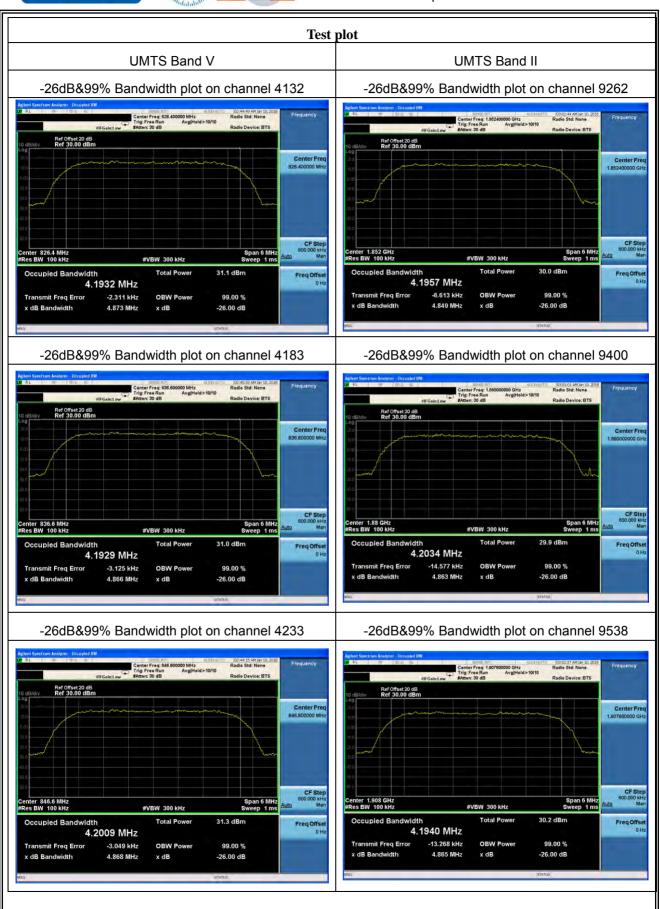




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7.7 CONDUCTED BAND EDGE

7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and 24.238(a) and FCC KDB 971168 D01 Section6.0

7.7.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

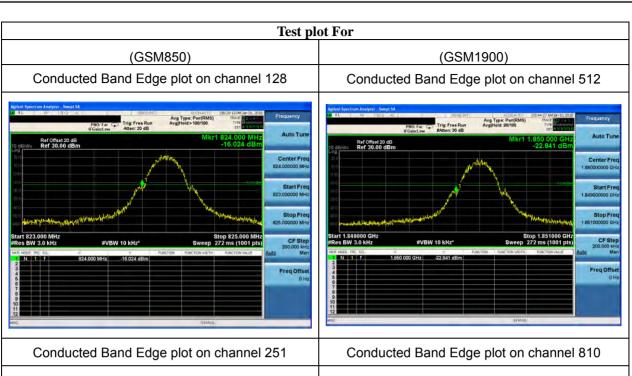
7.7.6 Test Results

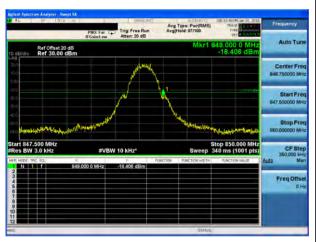
EUT:	Smart Phone	Model No.:	HM-N505-FL		
Temperature:	20 ℃	Relative Humidity:	48%		
Test Mode:	GSM/GPRS/EGPRS850/ GSM/GPRS/EGPRS1900/ UMTS band II/ UMTS band V	Test By:	Eileen Liu		
Results: PASS					

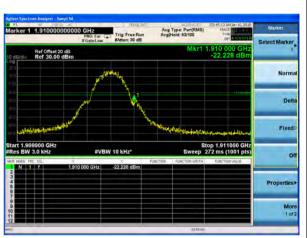
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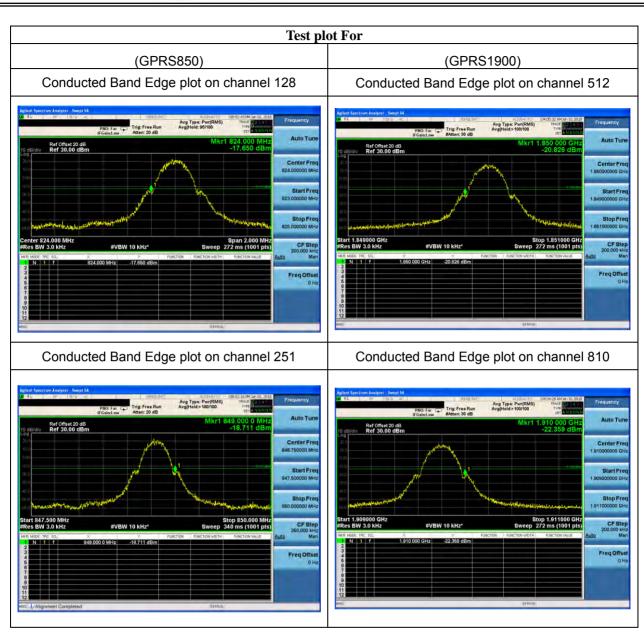




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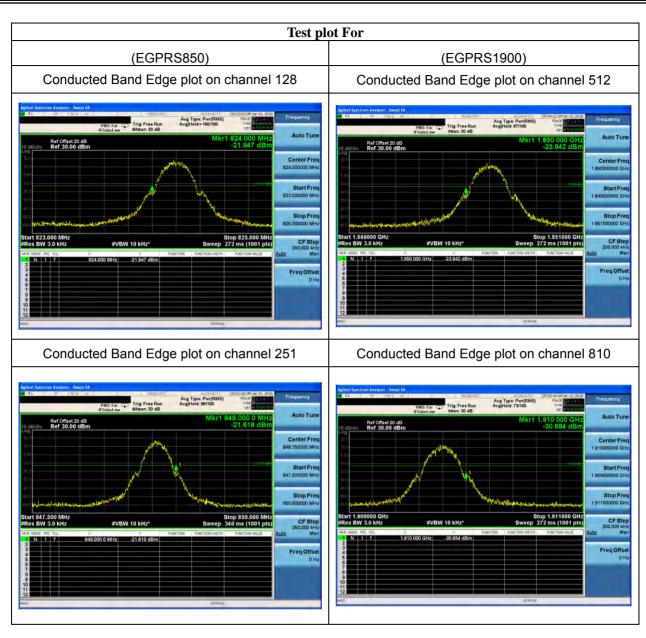




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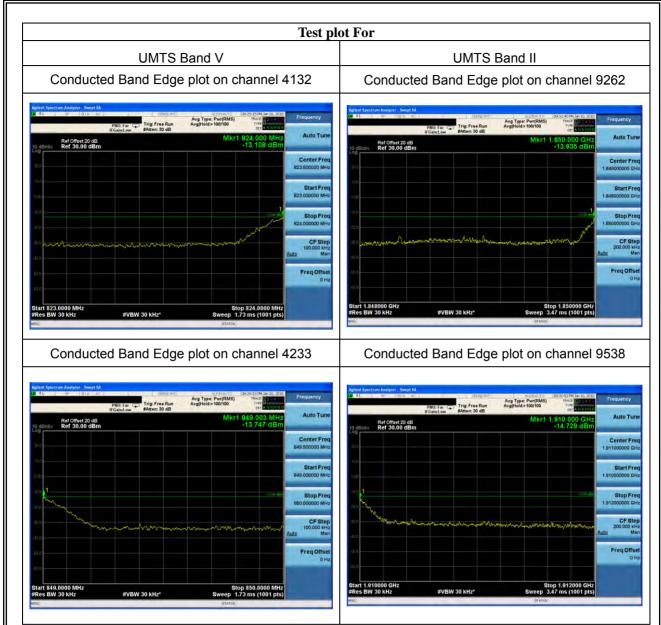


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7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and Part 24.238(a) and FCC KDB 971168 D01 Section6.0

7.8.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.0.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

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.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- $= [30 + 10\log(P)] (dBm) [43 + 10\log(P)] (dB)$
- = -13dBm.

7.8.6 Test Results

EUT:	Smart Phone	Model No.:	HM-N505-FL
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850/ GSM/GPRS/EGPRS 1900/ UMTS band II/ UMTS band V	Test By:	Eileen Liu
Results: PASS			

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GSM850

Conducted Emission Transmitting Mode CH 128
30MHz - 5GHz

GSM850

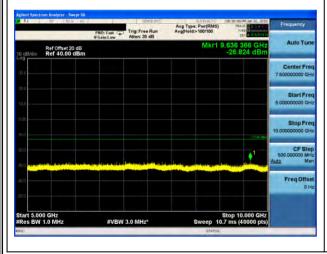
Conducted Emission Transmitting Mode CH 190
30MHz - 5GHz





Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 190 5GHz – 10GHz





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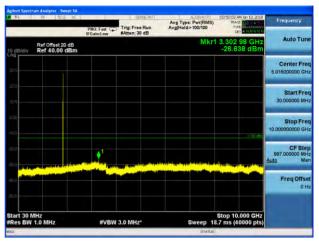


GSM850

Conducted Emission Transmitting Mode CH 251 Conducted Er 30MHz – 5GHz

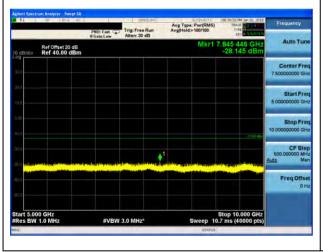
GSM1900 Conducted Emission Transmitting Mode CH 512 30MHz – 10GHz





Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz





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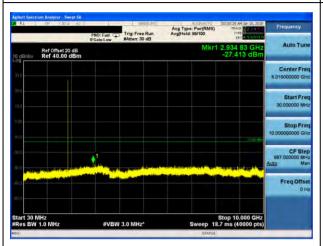




GSM1900

Conducted Emission Transmitting Mode CH 661 30MHz - 10GHz GSM1900

Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz





Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz





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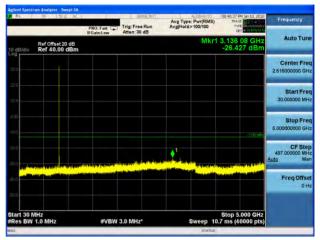




GPRS850 GPRS850

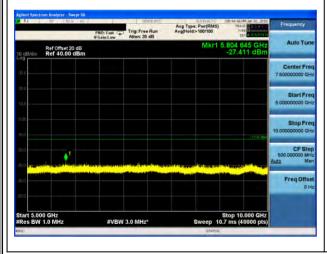
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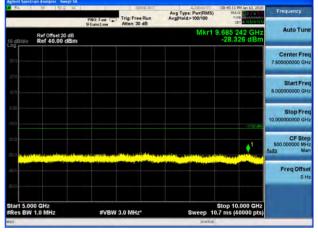




Conducted Emission Transmitting Mode CH 128 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 190 5GHz – 10GHz





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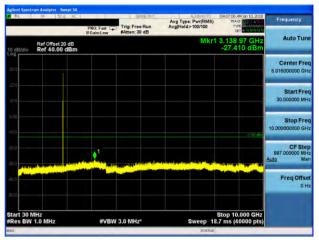


GPRS850

Conducted Emission Transmitting Mode CH 251 30MHz - 5GHz GPRS1900

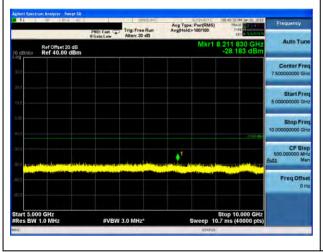
Conducted Emission Transmitting Mode CH 512 30MHz – 10GHz

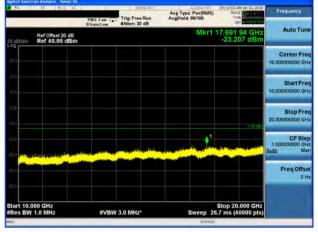




Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz





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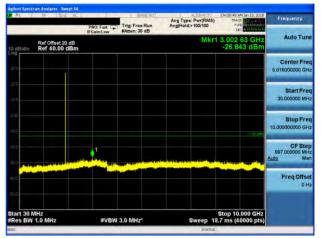


GPRS1900

Conducted Emission Transmitting Mode CH 661 30MHz - 10GHz GPRS1900

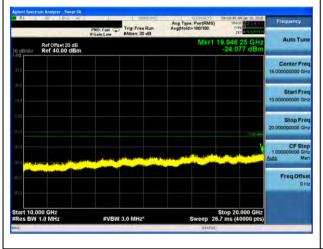
Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz





Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz

Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz





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EGPRS850

Conducted Emission Transmitting Mode CH 128 30MHz – 5GHz

EGPRS850

Conducted Emission Transmitting Mode CH 190

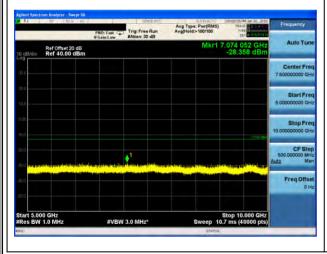
30MHz **-** 5GHz





Conducted Emission Transmitting Mode CH 128 5GHz **–** 10GHz

Conducted Emission Transmitting Mode CH 190 5GHz **–** 10GHz





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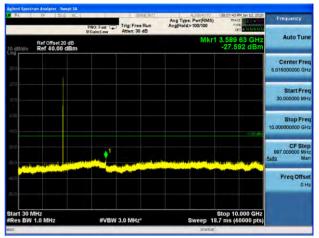


EGPRS850

Conducted Emission Transmitting Mode CH 251 30MHz - 5GHz EGPRS1900

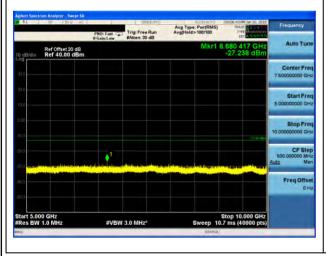
Conducted Emission Transmitting Mode CH 512 30MHz – 10GHz

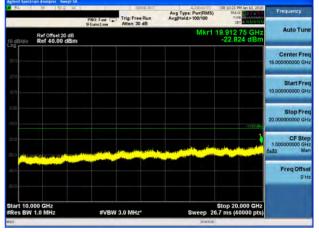




Conducted Emission Transmitting Mode CH 251 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 512 10GHz – 20GHz





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EGPRS1900

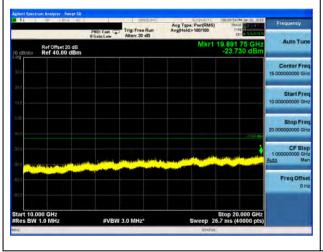
Conducted Emission Transmitting Mode CH 661 30MHz - 10GHz EGPRS1900

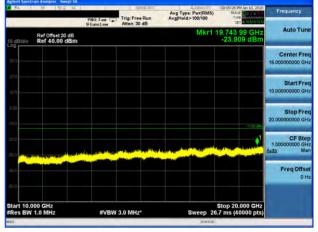
Conducted Emission Transmitting Mode CH 810 30MHz – 10GHz





Conducted Emission Transmitting Mode CH 661 10GHz – 20GHz Conducted Emission Transmitting Mode CH 810 10GHz – 20GHz





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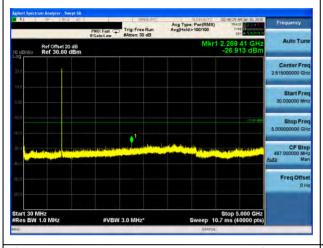


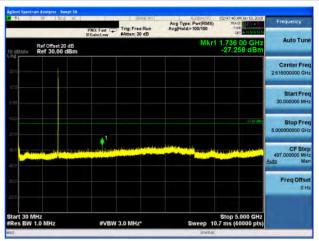


UMTS band V

UMTS band V

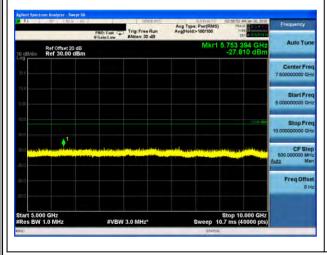
Conducted Emission Transmitting Mode CH 4132 30MHz – 5GHz Conducted Emission Transmitting Mode CH 4183 30MHz – 5GHz





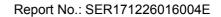
Conducted Emission Transmitting Mode CH 4132 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 4183 5GHz – 10GHz





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UMTS band V

Conducted Emission Transmitting Mode CH 4233
30MHz - 5GHz

UMTS band II

Conducted Emission Transmitting Mode CH 9262
30MHz - 10GHz

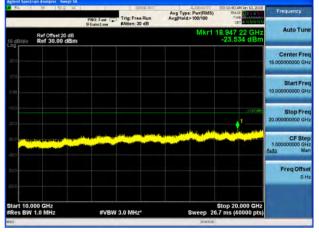




Conducted Emission Transmitting Mode CH 4233 5GHz – 10GHz

Conducted Emission Transmitting Mode CH 9262 10GHz – 20GHz





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Test Plot

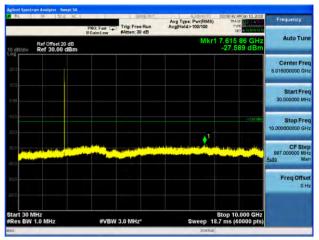
UMTS band II

Conducted Emission Transmitting Mode CH 9400
30MHz - 10GHz

UMTS band II

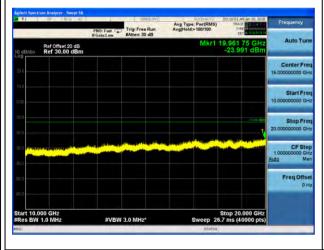
Conducted Emission Transmitting Mode CH 9538
30MHz - 10GHz

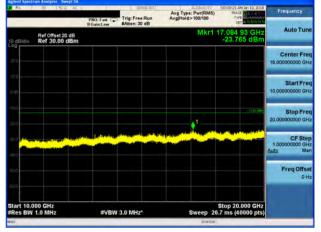




Conducted Emission Transmitting Mode CH 9400 10GHz – 20GHz

Conducted Emission Transmitting Mode CH 9538 10GHz – 20GHz





END OF REPORT

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