

FCC RF Test Report

APPLICANT	:	ZTE CORPORATION
EQUIPMENT	:	LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone
BRAND NAME	:	ZTE
MODEL NAME	:	Z6530M
FCC ID	:	SRQ-Z6530M
STANDARD	:	47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 16, 2019 and completely tested on Jul. 03, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

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TABLE OF CONTENTS

RE	VISION	I HISTORY	3
SU	MMAR	Y OF TEST RESULT	4
1	GENE	RAL DESCRIPTION	5
	1.1	Applicant	5
	1.2	Product Feature of Equipment Under Test	5
	1.3	Product Specification of Equipment Under Test	6
	1.4	Modification of EUT	6
	1.5	Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	7
	1.6	Testing Location	8
	1.7	Applicable Standards	8
2	TEST	CONFIGURATION OF EQUIPMENT UNDER TEST	9
	2.1	Test Mode	9
	2.2	Connection Diagram of Test System	10
	2.3	Support Unit used in test configuration	10
	2.4	Measurement Results Explanation Example	
	2.5	Frequency List of Low/Middle/High Channels	11
3	CONE	DUCTED TEST RESULT	
	3.1	Measuring Instruments	12
	3.2	Test Setup	12
	3.3	Test Result of Conducted Test	12
	3.4	Conducted Output Power and ERP/EIRP	13
	3.5	Peak-to-Average Ratio	
	3.6	99% Occupied Bandwidth and 26dB Bandwidth Measurement	
	3.7	Conducted Band Edge	
	3.8	Conducted Spurious Emission	
	3.9	Frequency Stability	18
4	RADI	ATED TEST ITEMS	
	4.1	Measuring Instruments	
	4.2	Test Setup	
	4.3	Test Result of Radiated Test	
	4.4	Field Strength of Spurious Radiation Measurement	
5	LIST	OF MEASURING EQUIPMENT	21
6	UNCE	RTAINTY OF EVALUATION	22
AP	PENDI	X A. TEST RESULTS OF CONDUCTED TEST	
AP	PENDI	X B. TEST RESULTS OF RADIATED TEST	
AP	PENDI	X C. TEST SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG951606A	Rev. 01	Initial issue of report	Jul. 22, 2019



Report Section	FCC Rule	Description	Limit	Result	Remark
	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.4	§22.913(a)(5)	Effective Radiated Power	< 7 Watts	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	< 13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only PAS		-
3.7	§2.1051 §22.917(a) §24.238(a)	Band Edge Measurement	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a)	Conducted Emission	< 43+10log10(P[Watts])	PASS	-
	§2.1055 §22.355	Frequency Stability			
3.9	§2.1055 §24.235	for Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	< 43+10log10(P[Watts])	PASS	Under limit 28.98 dB at 1672.000 MHz



1 General Description

1.1 Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2 Product Feature of Equipment Under Test

Product Feature				
Equipment	LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone			
Brand Name	ZTE			
Model Name	Z6530M			
FCC ID	SRQ-Z6530M			
	GSMWCDMA/LTE/NFC			
	WLAN 2.4GHz 802.11b/g/n HT20/HT40			
FUT currents Dedies explication	WLAN 5Ghz 802.11n H20/H40			
EUT supports Radios application	WLAN 5GHz 802.11ac VHT20/VHT40/VHT80			
	Bluetooth BR/EDR/LE			
	FM Receiver / GNSS			
	Conducted: 861884040022878			
IMEI Code	Radiation:			
INIEI Code	861884040025285 for Part 22H			
	861884040024809 for Part 24E			
HW Version	Z6530MHW1.0			
SW Version	Z6530MV1.0.0B11			
EUT Stage	Identical Prototype			

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.3	Product	Specification	of Equipm	nent Under Test
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Standards-related Product Specification					
	GSM/GPF	RS/EDGE:			
	850:	824.2 MHz ~ 848.8 MHz			
	1900:	1850.2 MHz ~ 1909.8MHz			
Tx Frequency	WCDMA:				
	Band V:	826.4 MHz ~ 846.6 MHz			
	Band II:	1852.4 MHz ~ 1907.6 MHz			
	GSM/GPF	RS/EDGE:			
	850:	869.2 MHz ~ 893.8 MHz			
	1900:	1930.2 MHz ~ 1989.8 MHz			
Rx Frequency	WCDMA:				
	Band V:	871.4 MHz ~ 891.6 MHz			
	Band II:	1932.4 MHz ~ 1987.6 MHz			
	GSM/GPRS/EDGE:				
	850:	32.43 dBm			
Maximum Output Davianta Antonna	1900:	29.53 dBm			
Maximum Output Power to Antenna	WCDMA:				
	Band V:	23.20 dBm			
	Band II:	23.18 dBm			
Antenna Type	IFA Antenn	a			
Antenna Gain	Cellular Band: -2.50 dBi				
	PCS Band:	-2.00 dBi			
	GSM: GMSK				
	GPRS: GMSK				
	EDGE: GMSK / 8PSK				
Type of Modulation					
		-HSDPA : QPSK (Uplink) PSK (Uplink)			
	HSUPA : QPSK (Uplink) HSPA+ : 16QAM				
	DC-HSDPA : 64QAM				

1.4 Modification of EUT

No modifications are made to the EUT during all test items.



1.5 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
Part 22	GSM850 GSM	GMSK	0.5998	0.0574 ppm	245KGXW
Part 22	GSM850 EDGE class 8	8PSK	0.1884	0.0538 ppm	243KG7W
Part 22	WCDMA Band V RMC 12.2Kbps	BPSK	0.0716	0.0442 ppm	4M18F9W
Part 24	GSM1900 GSM	GMSK	0.5662	0.0218 ppm	245KGXW
Part 24	GSM1900 EDGE class 8	8PSK	0.2455	0.0255 ppm	252KG7W
Part 24	WCDMA Band II RMC 12.2Kbps	BPSK	0.1312	0.0239 ppm	4M17F9W



1.6 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (F	Kunshan) Inc.			
	No. 1098, Pengxi North Road, Kunshan Economic Development Zone				
Test Site Location	Jiangsu Province 215300 People's Republic of China				
	TEL : +86-512-57900158				
	FAX : +86-512-57900958				
	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.		
Test Site No.	TH01-KS 03CH05-KS	CN1257	314309		

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- **2.** This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 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 and WCDMA Band V.
- 2. 30 MHz to 10th harmonic for GSM1900 and WCDMA Band II.

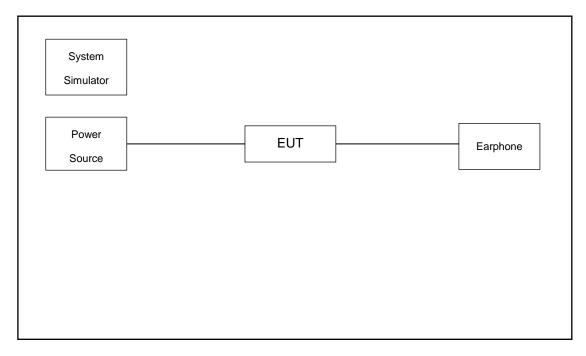
All modes and data rates and positions were investigated.

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

Test Modes					
Band	Radiated TCs	Conducted TCs			
CSM 950	■ GSM Link	■ GSM Link			
GSIM 650	EDGE class 8 Link ■	EDGE class 8 Link			
CCN 4000	■ GSM Link	■ GSM Link			
GSM 1900	EDGE class 8 Link	EDGE class 8 Link			
WCDMA Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link			
WCDMA Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link			



2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration

ltem	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8m
3.	Earphone	Lenovo	LH102	N/A	Unshielded,1.2m	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.3 dB and a 10dB attenuator. Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.3 + 10 = 14.3 (dB)



2.5 Frequency List of Low/Middle/High Channels

Frequency List					
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest	
CSM950	Channel	128	189	251	
GSM850	Frequency	824.2	836.4	848.8	
WCDMA	Channel	4132	4182	4233	
Band V	Frequency	826.4	836.4	846.6	
GSM1900	Channel	512	661	810	
GSIMT900	Frequency	1850.2	1880.0	1909.8	
WCDMA	Channel	9262	9400	9538	
Band II	Frequency	1852.4	1880.0	1907.6	



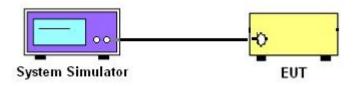
3 Conducted Test Result

3.1 Measuring Instruments

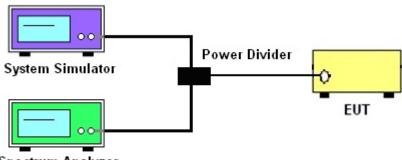
See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power

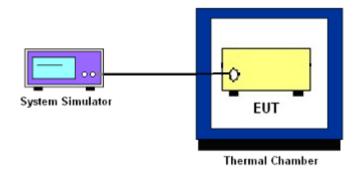


3.2.2 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



Spectrum Analyzer

3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

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3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for GSM850 and WCDMA Band V.

The EIRP of mobile transmitters must not exceed 2 Watts for GSM1900 and WCDMA Band II.

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$, ERP = EIRP - 2.15, where

 P_T = transmitter output power in dBm

 G_T = gain of the transmitting antenna in dBi

 L_{C} = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2
- 2. The transmitter output port was connected to the system simulator.
- 3. Set EUT at maximum power through the system simulator.
- 4. Select lowest, middle, and highest channels for each band and different modulation.
- 5. Measure and record the power level from the system simulator.



3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
- 2. The EUT was connected to spectrum and system simulator via a power divider.
- 3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
- 4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
- 5. Record the deviation as Peak to Average Ratio.



3.6 99% Occupied Bandwidth and 26dB Bandwidth Measurement

3.6.1 Description of 99% Occupied Bandwidth and 26dB Bandwidth Measurement

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.

3.6.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.4
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 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.
- 4. 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.
- 5. 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)
- 7. Determine the "-26 dB down amplitude" as equal to (Reference Value X).
- 8. 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.
- 9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

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 $43 + 10 \log (P) dB$.

3.7.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The band edges of low and high channels for the highest RF powers were measured.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)



3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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.

3.8.2 Test Procedures

- 1. The testing follows ANSI C63.26 section 5.7
- 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
- 3. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 4. The middle channel for the highest RF power within the transmitting frequency was measured.
- 5. The conducted spurious emission for the whole frequency range was taken.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 7. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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.

3.9.2 Test Procedures for Temperature Variation

- 1. The testing follows ANSI C63.26 section 5.6.4
- 2. 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 step 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.

3.9.3 Test Procedures for Voltage Variation

- 1. The testing follows ANSI C63.26 section 5.6.5
- 2. The EUT was placed in a temperature chamber at 20±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 for other than hand carried battery equipment.
- 4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- 5. The variation in frequency was measured for the worst case.



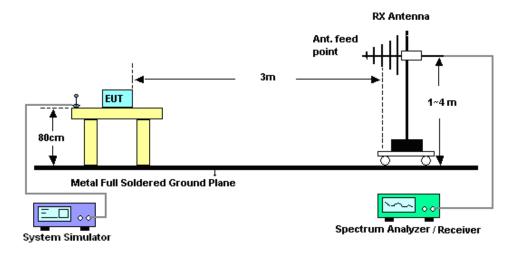
4 Radiated Test Items

4.1 Measuring Instruments

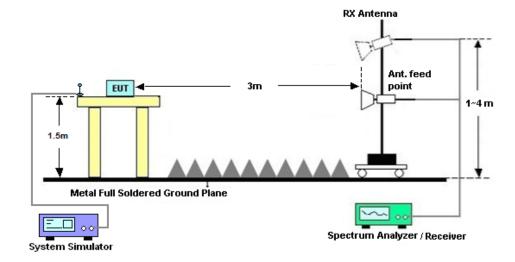
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

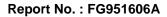
4.4 Field Strength of Spurious Radiation Measurement

4.4.1 Description of Field Strength of Spurious Radiated Measurement

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.

4.4.2 Test Procedures

- 1. The testing follows ANSI C63.26 Section 5.5
- 2. The EUT was placed on a rotatable wooden table 0.8 meters for frequency below 1GHz and 1.5 meter for frequency above 1GHz above the ground.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
- 4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
- 5. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
- 6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
- 7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
- 8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
- 9. Taking the record of output power at antenna port.
- 10. Repeat step 7 to step 8 for another polarization.
- 11. EIRP (dBm) = S.G. Power Tx Cable Loss + Tx Antenna Gain
- 12. ERP (dBm) = EIRP 2.15
- 13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 14. The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)





5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Apr. 18, 2019	Jul. 02, 2019~ Jul. 03, 2019	Apr. 17, 2020	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Nov. 19, 2018	Jul. 02, 2019~ Jul. 03, 2019	Nov. 18, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44GHz	Oct. 09, 2018	May 29, 2019	Oct. 08, 2019	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 28, 2018	May 29, 2019	Dec. 27, 2019	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 27, 2019	May 29, 2019	Jan. 26, 2020	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2019	May 29, 2019	Jan. 04, 2020	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Aug. 06, 2018	May 29, 2019	Aug. 05, 2019	Radiation (03CH05-KS)
Amplifier	MITEQ	TTA1840-35 -HG	2014749	18~40GHz	Jan. 14, 2019	May 29, 2019	Jan. 13, 2020	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Aug. 17, 2018	May 29, 2019	Aug. 16, 2019	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY53270316	500MHz~26.5GHz	Dec. 22, 2018	May 29, 2019	Dec. 21, 2019	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	May 29, 2019	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	May 29, 2019	NCR	Radiation (03CH05-KS)

NCR: No Calibration Required



6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of	2.5 dB
Confidence of 95% (U = 2Uc(y))	2.5 UB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of	2.1 dB
Confidence of 95% (U = 2Uc(y))	2.1 dB



Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Conducted Power (*Unit: dBm)						
Band		GSM850		GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	32.19	32.42	<mark>32.43</mark>	29.27	29.37	<mark>29.53</mark>
GPRS class 8	32.17	32.40	32.42	29.26	29.35	29.50
GPRS class 10	31.64	31.82	31.74	28.49	28.61	28.83
GPRS class 11	30.08	30.25	30.27	26.65	26.84	27.03
GPRS class 12	28.99	29.15	29.16	25.58	25.77	25.92
EGPRS class 8	27.40	27.21	27.32	25.82	25.85	25.90
EGPRS class 10	26.22	26.07	26.16	24.88	24.94	24.97
EGPRS class 11	23.95	23.78	23.93	22.91	23.03	23.10
EGPRS class 12	22.74	22.64	22.74	21.80	21.95	22.01

Conducted Power (*Unit: dBm)							
Band	WCDMA Band V			WCDMA Band II			
Channel	4132	4182	4233	9262	9400	9538	
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	
AMR 12.2K	23.19	23.16	23.15	23.06	23.09	23.15	
RMC 12.2K	<mark>23.20</mark>	23.17	23.16	23.08	<mark>23.18</mark>	23.17	
HSDPA Subtest-1	22.22	22.19	22.21	22.06	22.12	22.17	
HSDPA Subtest-2	22.13	22.22	22.13	21.97	22.00	22.08	
HSDPA Subtest-3	21.67	21.68	21.64	21.46	21.54	21.56	
HSDPA Subtest-4	21.66	21.65	21.63	21.49	21.55	21.51	
DC-HSDPA Subtest-1	22.20	22.18	22.17	22.10	22.11	22.15	
DC-HSDPA Subtest-2	22.19	22.17	22.15	22.02	22.04	22.13	
DC-HSDPA Subtest-3	21.65	21.62	21.59	21.44	21.50	21.45	
DC-HSDPA Subtest-4	21.67	21.61	21.61	21.45	21.51	21.47	
HSUPA Subtest-1	20.24	20.19	20.15	20.14	20.21	20.16	
HSUPA Subtest-2	20.16	20.18	20.10	20.12	20.11	20.17	
HSUPA Subtest-3	21.21	21.17	21.13	21.07	21.09	21.16	
HSUPA Subtest-4	19.68	19.72	19.65	19.57	19.67	19.67	
HSUPA Subtest-5	21.20	21.20	21.10	21.00	21.00	21.01	
HSPA+ (16QAM) Subtest-1	20.42	20.45	20.43	19.85	19.86	19.84	



ERP/EIRP

GSM850 (G _τ - L _c = -2.50 dB)					
Channel	128 189		251		
	(Low)	(Mid)	(High)		
Frequency	824.2	836.4	848.8		
(MHz)	824.2	830.4	040.0		
Conducted Power (dBm)	32.19	32.42	32.43		
Conducted Power (Watts)	1.6558	1.7458	1.7498		
ERP(dBm)	27.54	27.77	27.78		
ERP(Watts)	0.5675	0.5984	0.5998		

EDGE850 (G _T - L _c = -2.50 dB)					
Channel	128	189	251		
	(Low)	(Mid)	(High)		
Frequency	004.0	000 4	0.40.0		
(MHz)	824.2	836.4	848.8		
Conducted Power (dBm)	27.40	27.21	27.32		
Conducted Power (Watts)	0.5495	0.5260	0.5395		
ERP(dBm)	22.75	22.56	22.67		
ERP(Watts)	0.1884	0.1803	0.1849		



GSM1900 (G _T - L _C = -2.00 dB)					
Channel	512	661	810		
	(Low)	(Mid)	(High)		
Frequency	4050.0	4000	4000.0		
(MHz)	1850.2	1880	1909.8		
Conducted Power (dBm)	29.27	29.37	29.53		
Conducted Power (Watts)	0.8453	0.8650	0.8974		
EIRP(dBm)	27.27	27.37	27.53		
EIRP(Watts)	0.5333	0.5458	0.5662		

EDGE1900 (G _T - L _C = -2.00 dB)					
Channel	512	661	810		
	(Low)	(Mid)	(High)		
Frequency	4050.0	4000	4000.8		
(MHz)	1850.2	1880	1909.8		
Conducted Power (dBm)	25.82	25.85	25.90		
Conducted Power (Watts)	0.3819	0.3846	0.3890		
EIRP(dBm)	23.82	23.85	23.90		
EIRP(Watts)	0.2410	0.2427	0.2455		



WCDMA Band V (G _T - L _C = -2.50 dB)					
Channel	4132	4182	4233		
	(Low)	(Mid)	(High)		
Frequency	000 4	000 4	046.6		
(MHz)	826.4	836.4	846.6		
Conducted Power (dBm)	23.20	23.17	23.16		
Conducted Power (Watts)	0.2089	0.2075	0.2070		
ERP(dBm)	18.55	18.52	18.51		
ERP(Watts)	0.0716	0.0711	0.0710		

WCDMA Band II (G_T - L_c = -2.00 dB)					
Channel	9262	9400	9538		
	(Low)	(Mid)	(High)		
Frequency	4952.4	1990	1007.6		
(MHz)	1852.4	1880	1907.6		
Conducted Power (dBm)	23.08	23.18	23.17		
Conducted Power (Watts)	0.2032	0.2080	0.2075		
EIRP(dBm)	21.08	21.18	21.17		
EIRP(Watts)	0.1282	0.1312	0.1309		



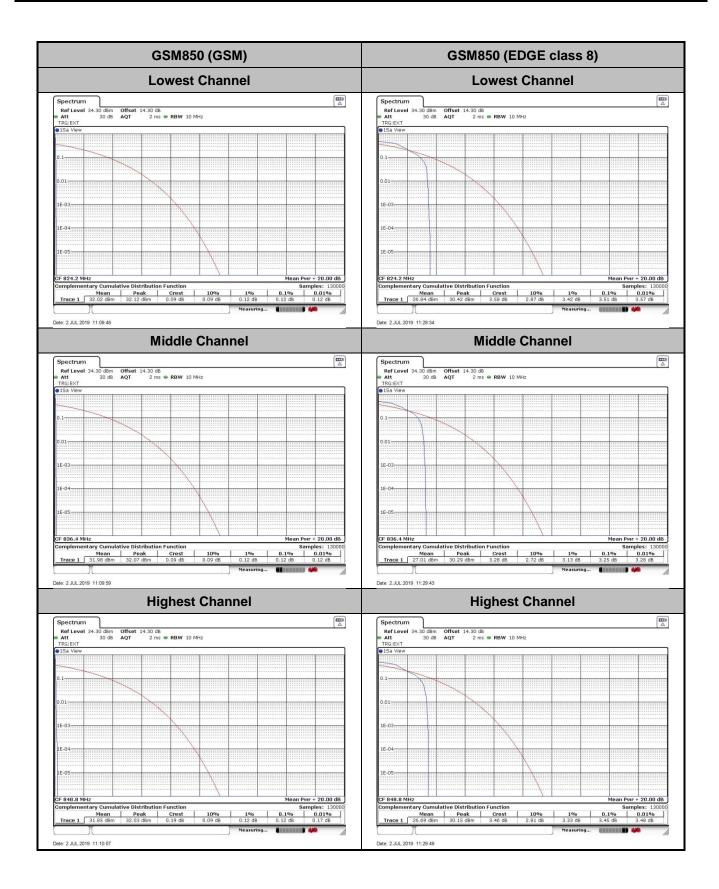
Peak-to-Average Ratio

Mode	GSM850		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.12	3.51	
Middle CH	0.12	3.25	PASS
Highest CH	0.12	3.45	

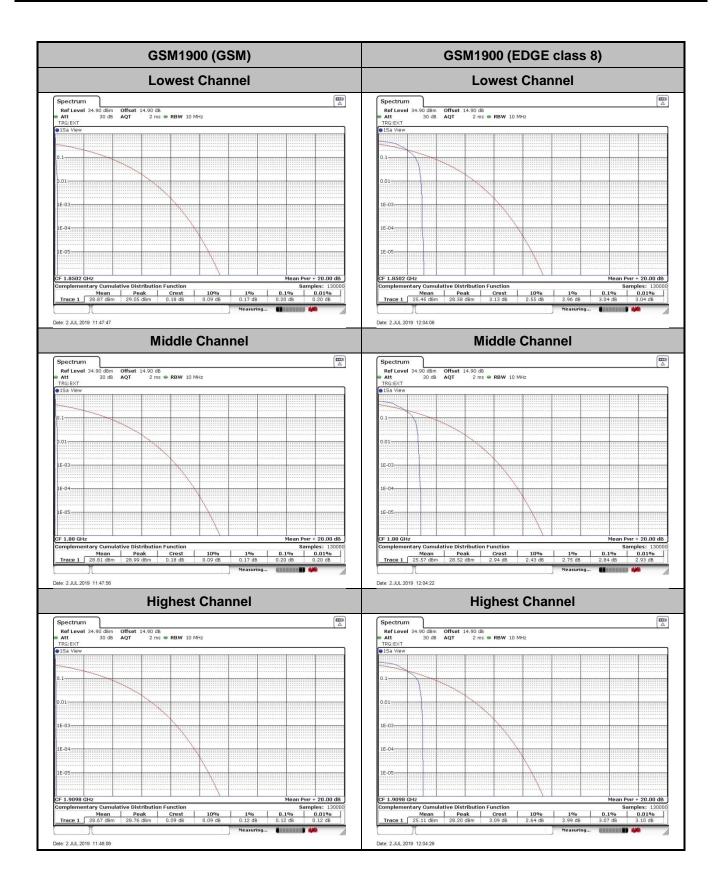
Mode	GSM1900		Limit: 13dB
Mod.	GSM	EDGE class 8	Result
Lowest CH	0.2	3.04	
Middle CH	0.2	2.84	PASS
Highest CH	0.12	3.07	

Mode	WCDMA Band V	WCDMA Band II	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.93	2.72	
Middle CH	3.01	2.78	PASS
Highest CH	2.81	2.87	

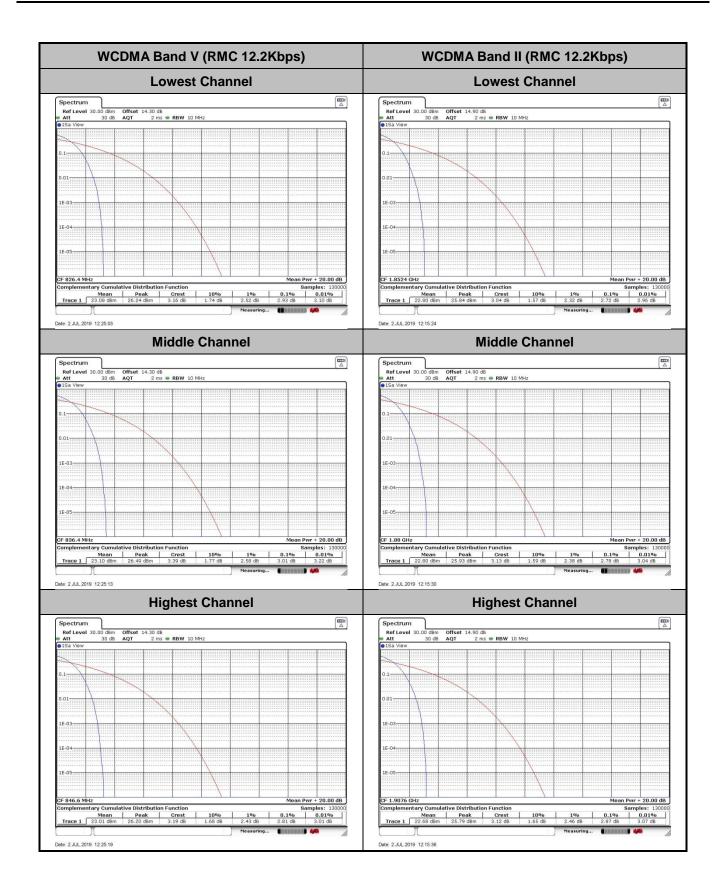














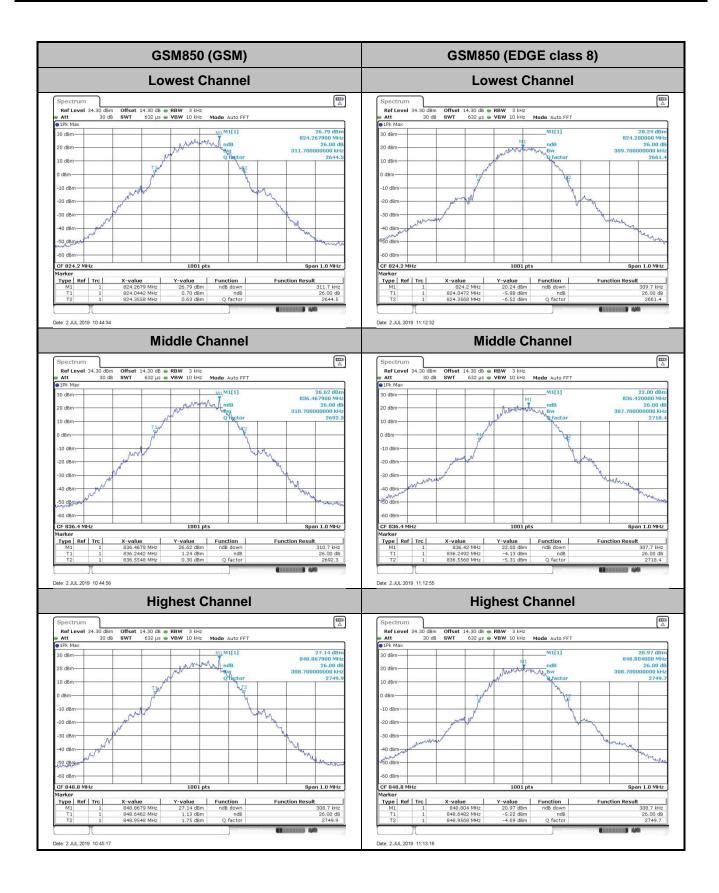
26dB Bandwidth

Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.312	0.31
Middle CH	0.311	0.308
Highest CH	0.309	0.309

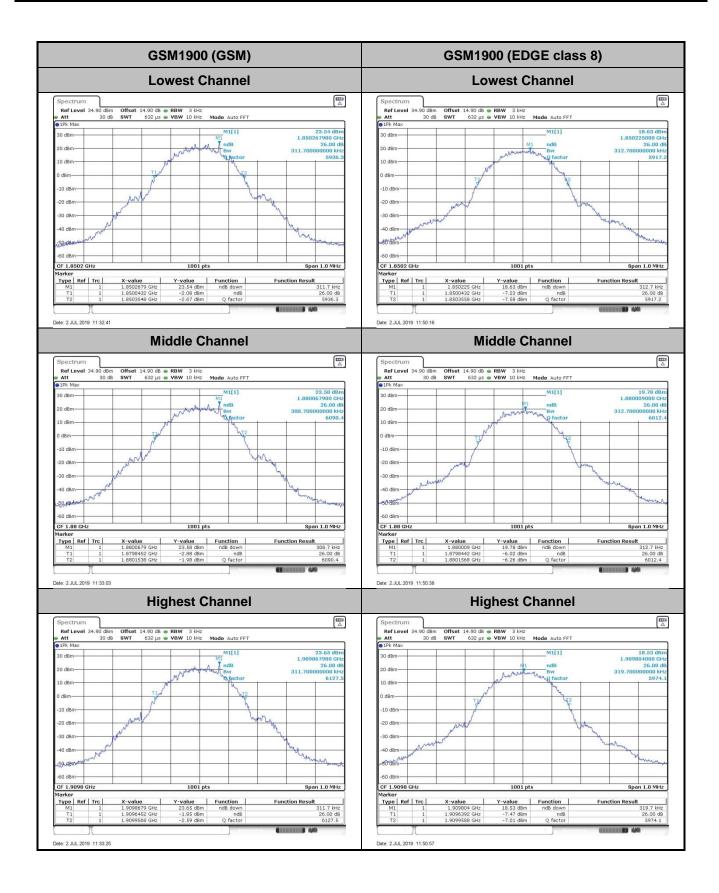
Mode	GSM1900		
Mod.	GSM	GSM EDGE class 8	
Lowest CH	0.312	0.313	
Middle CH	0.309	0.313	
Highest CH	0.312	0.32	

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.715	4.725
Middle CH	4.695	4.735
Highest CH	4.705	4.705

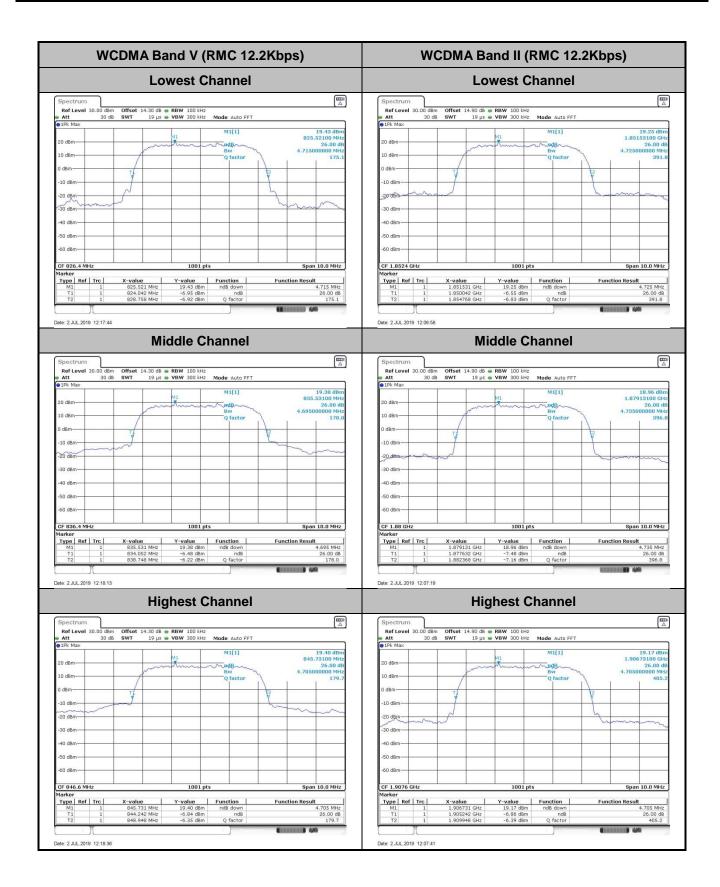














Occupied Bandwidth

Mode	GSM850	
Mod.	GSM	EDGE class 8
Lowest CH	0.244	0.24
Middle CH	0.245	0.243
Highest CH	0.243	0.239

Mode	GSM1900	
Mod.	GSM EDGE class 8	
Lowest CH	0.245	0.25
Middle CH	0.245	0.251
Highest CH	0.242	0.252

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.156	4.166
Middle CH	4.176	4.166
Highest CH	4.166	4.156



