

TEST REPORT

FCC ID: 2AHQFGPOWER3

Product: Smart Mobile Phone

Model No.: Gpower 3

Additional Model No.: Gpower 5, Gpower 6, Gpower 7, Gpower 9, L3, L5, L6, L7, L9

Trade Mark: G'FIVE

Report No.: TCT160308E007

Issued Date: Mar. 25, 2016

Issued for:

Gfive Intemet(HK) Limited

5F/Tower E, 9th East, Shangxue Industrial Park, Bantian, longgang District, Shenzhen, China

Issued By:

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1. Test Certification

Product:	Smart Mobile Phone
Model No.:	Gpower 3
Additional Model No.:	Gpower 5, Gpower 6, Gpower 7, Gpower 9, L3, L5, L6, L7, L9
Applicant:	Gfive Internet(HK) Limited
Address:	5F/Tower E, 9th East, Shangxue Industrial Park, Bantian, longgang District, Shenzhen, China
Manufacturer:	Gfive Internet(HK) Limited
Address:	5F/Tower E, 9th East, Shangxue Industrial Park, Bantian, longgang District, Shenzhen, China
Date of Test:	Mar. 08 - Mar. 24, 2016
Applicable Standards:	FCC CFR Title 47 Part 2 FCC CFR Title 47 Part22 Subpart H FCC CFR Title 47 Part24 Subpart E

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Garen

Date:

Mar. 24, 2016

Reviewed By:

Joe Zhou

Date:

Mar. 25, 2016

Approved By:

Tomsin

Date:

Mar. 25, 2016



2. Test Result Summary

Requirement	CFR 47 Section	Result
Conducted Output Power	§2.1046	PASS
Peak-to-Average Ratio	§24.232(d)	PASS
Effective Radiated Power	§22.913(a)(2)	PASS
Equivalent Isotropic Radiated Power	§24.232(c)	PASS
Occupied Bandwidth	§2.1049 §22.917(b) §24.238(b)	PASS
Band Edge	§2.1051 §22.917(a) §24.238(a)	PASS
Conducted Spurious Emission	§2.1051 §22.917(a) §24.238(a)	PASS
Field Strength of Spurious Radiation	§2.1053 §22.917(a) §24.238(a)	PASS
Frequency Stability for Temperature & Voltage	§2.1055 §22.355 §24.235	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product Name:	Smart Mobile Phone
Model :	Gpower 3
Additional Model:	Gpower 5, Gpower 6, Gpower 7, Gpower 9, L3, L5, L6, L7, L9
Trade Mark:	G'FIVE
Hardware Version:	W100-mb-v3.0-20160112
software Version:	LMY471 test-keys
Tx Frequency:	GPRS/GSM 850: 824.2 MHz ~ 848.8 MHz GPRS/ GSM 1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz
Rx Frequency:	GPRS/ GSM 850: 869.2 MHz ~ 893.8 MHz GPRS/ GSM 1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band II: 1932.4 MHz ~ 1987.6 MHz
Maximum Output Power to Antenna:	GSM 850 : 32.52 dBm GSM1900 : 29.62 dBm WCDMA Band V : 23.99 dBm WCDMA Band II : 23.49 dBm
99% Occupied Bandwidth:	GSM 850: 248KGXW GSM 1900: 244KGXW WCDMA Band V RMC 12.2Kbps: 4M17F9W WCDMA Band II RMC 12.2Kbps: 4M17F9W
Type of Modulation:	GPRS/GSM: GMSK WCDMA: QPSK HSDPA: QPSK HSUPA: QPSK
Antenna Type:	Internal Antenna
Antenna Gain:	GPRS/ GSM 850/WCDMA Band V: 1.7dBi GPRS/GSM 1900 /WCDMA Band II : 1.9dBi
Power Supply:	DC 3.7V from rechargeable lithium battery

4. Genera Information

4.1. Test environment and mode

Operating Environment:

Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar

Test Mode:

Operation mode:	Keep the EUT in communication with CMU200 and select channel with modulation
-----------------	--

Remark: This product has a built-in rechargeable battery, so in an independent test, the EUT battery was fully-charged.

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

Description Operation Frequency

GSM 850		PCS1900	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
128	824.20	512	1850.20
129	824.40	513	1850.40
....			
189	836.40	660	1879.80
190	836.60	661	1880.00
191	836.80	662	1880.20
...	...	...	...
250	848.60	809	1909.60
251	848.80	810	1909.80
WCDMA Band V		WCDMA Band II	
Channel:	Frequency (MHz)	Channel:	Frequency (MHz)
4132	826.40	9262	1852.40
4133	826.60	9263	1852.60
....			
4182	836.40	9399	1879.80
4183	836.60	9400	1880.00
4184	836.80	9401	1880.20
...	...	...	...
4232	846.40	9537	1907.40
4233	846.60	9538	1907.60

4.2. Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 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 10000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 20000 MHz for PCS1900 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 Mode		
Band	Radiated TCs	Conducted TCs
GSM 850	GPRS class 8 Link	GPRS class 8 Link
PCS 1900	GPRS class 8 Link	GPRS class 8 Link
WCDMA Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link
WCDM Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link

Note: The maximum power levels are chosen to test as the worst case configuration as follows:

GPRS multi-slot class 8 mode for GMSK modulation

RMC 12.2Kbps mode for WCDMA band V and WCDMA band II, only these modes were used for all tests. In addition to above worst-case test, below investigating on all data rates and all modes are compliance with each FCC test case which has specific test limits. For spurious emissions at antenna port, the EUT was investigated the band edges on low and high channels, and the unwanted spurious emissions on middle channel for all modes, the results are PASS, then only the worst-results were reported in the test report. The Radiated Spurious emissions for GPRS modes were investigated on the middle channel and the PASSED results were not worst than those data tested from the highest power channels.

4.3. Description of Support Units

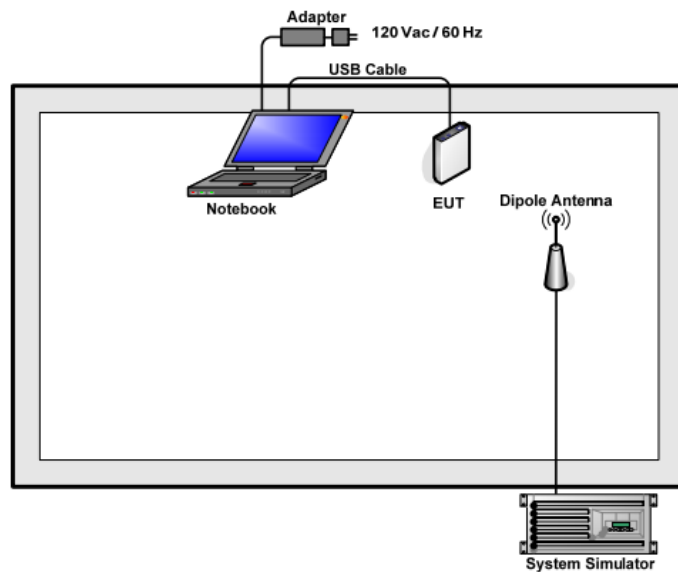
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4. Configuration of Tested System



4.5. 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 3 dB and a 5dB attenuator.

Example: $Offset(dB) = RF\ cable\ loss(dB) + attenuator\ factor(dB)$.
 $= 8(dB)$

5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

- CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

5.3. Measurement Uncertainty

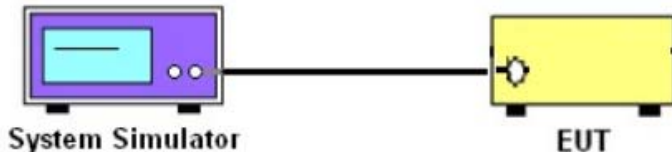
The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

6.1. Conducted Output Power Measurement

6.1.1. Test Specification

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)
Test Method:	FCC part 2.1046
Operation mode:	Refer to item 4.1
Limits:	GSM 850 7W PCS 1900 2W WCDMA Band V: 7W WCDMA Band II: 2W
Test Setup:	 The diagram illustrates the test setup. On the left is a purple box labeled 'System Simulator' with a screen and two buttons. A black line representing a cable connects it to a yellow box on the right labeled 'EUT' (Equipment Under Test), which has a circular port on its side.
Test Procedure:	1. The transmitter output port was connected to the system simulator. 2. Set EUT at maximum power through system simulator. 3. Select lowest, middle, and highest channels for each band and different modulation. 4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.
Test Result:	PASS

6.1.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	111382	Sep. 11, 2016
RF cable	TCT	RE-06	N/A	Sep. 12, 2016
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016

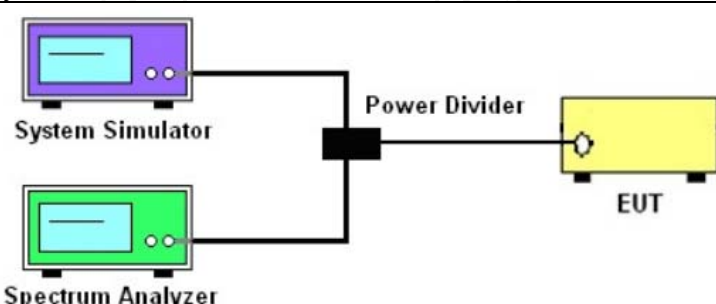
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

Test data

Average Conducted Power (*Unit: dBm)						
Band	GSM850			PCS 1900		
Channel	128	189	251	512	661	810
Frequency(MHz)	824.2	836.4	848.8	1850.2	1880.0	1909.8
GSM	33.14	33.26	33.23	29.68	29.51	29.41
GPRS class8	32.43	32.52	32.41	29.21	29.62	29.15
GPRS class10	30.32	30.21	30.13	25.23	25.34	26.23
GPRS class11	28.48	28.26	28.34	23.55	23.34	24.52
GPRS class12	26.62	26.46	26.70	21.68	21.31	22.45
Average Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4183	4233	9262	9400	9538
Frequency(MHz)	826.4	836.6	846.6	1852.4	1880.0	1907.6
WCDMA RMC 12.2K	23.37	23.20	23.99	23.49	23.29	23.45
HSDPA Subtest-1	21.06	21.95	21.88	21.16	21.33	21.09
HSDPA Subtest-2	21.00	21.90	21.84	21.11	21.20	20.94
HSDPA Subtest-3	21.59	21.44	21.40	20.57	20.68	20.53
HSDPA Subtest-4	21.56	21.39	21.38	20.49	20.66	20.46
HSUPA Subtest-1	20.64	20.97	20.59	20.98	21.03	20.58
HSUPA Subtest-2	20.49	20.80	20.47	20.64	20.87	20.64
HSUPA Subtest-3	20.45	20.46	20.41	20.54	20.34	20.63
HSUPA Subtest-4	20.35	20.24	20.03	20.74	20.68	20.15
HSUPA Subtest-5	20.62	20.59	20.64	20.78	20.97	20.88

6.2. Peak to Average Ratio

6.2.1. Test Specification

Test Requirement:	FCC Part24.232
Test Method:	FCC KDB 971168 v02r02 Section 5.7.1
Operation mode:	Refer to item 4.1
Limit:	The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.
Test Setup:	 The diagram illustrates the test setup. A System Simulator (represented by a purple box) and a Spectrum Analyzer (represented by a green box) are connected to a Power Divider (represented by a black box). The Power Divider is then connected to the EUT (Equipment Under Test, represented by a yellow box).
Test Procedure:	1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1. 2. The EUT was connected to spectrum analyzer and system simulator via a power divider. 3. Set EUT to transmit at maximum output power. 4. For GSM/EGPRS operating modes, signal gating is implemented on the spectrum analyzer by triggering from the system simulator. 5. Set the CCDF (Complementary Cumulative Distribution Function) option of the spectrum analyzer. Record the maximum PAPR level associated with a probability of 0.1%.
Test Result:	PASS

6.2.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	111382	Sep. 11, 2016
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016
RF cable	TCT	RE-06	N/A	Sep. 12, 2016
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

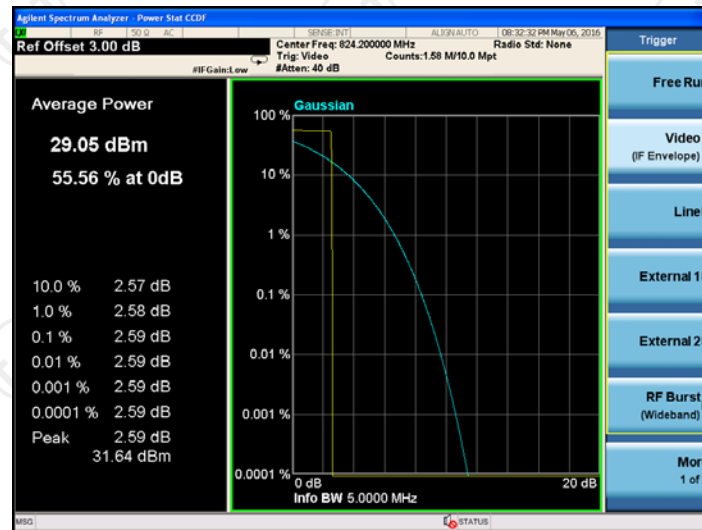
6.2.3. Test Data

Cellular Band						
Mode	GSM850			WCDMA Band V (RMC 12.2Kbps)		
Channel	128	189	251	4132	4183	4233
Frequency (MHz)	824.2	836.4	848.8	826.4	836.6	846.8
Peak-to- Average Ratio (dB)	2.59	2.68	2.75	2.70	2.68	2.68

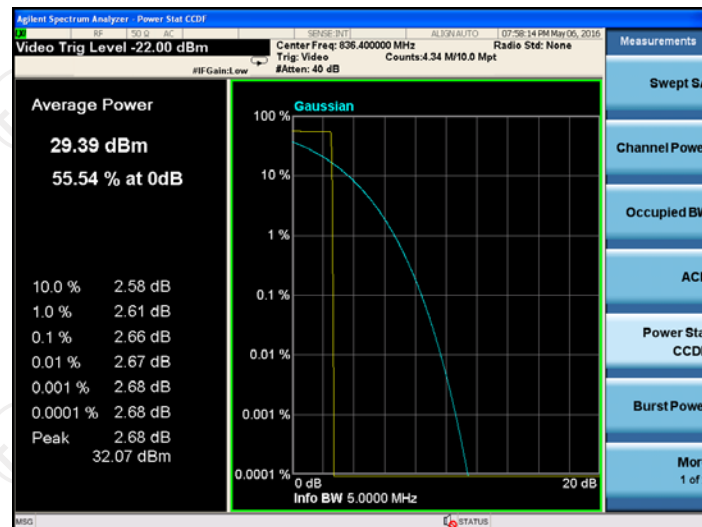
PCS Band						
Mode	GSM 1900			WCDMA Band II (RMC 12.2Kbps)		
Channel	512	661	810	9262	9400	9538
Frequency (MHz)	1850.2	1880	1909.8	1852.4	1880	1907.6
Peak-to- Average Ratio (dB)	0.00	0.02	0.01	3.07	3.01	2.86

Test plots as follows:

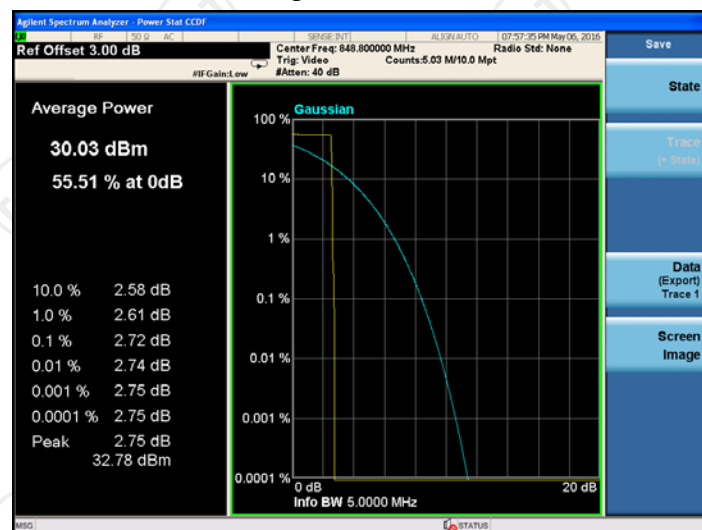
Peak-to-Average Ratio on Channel 128



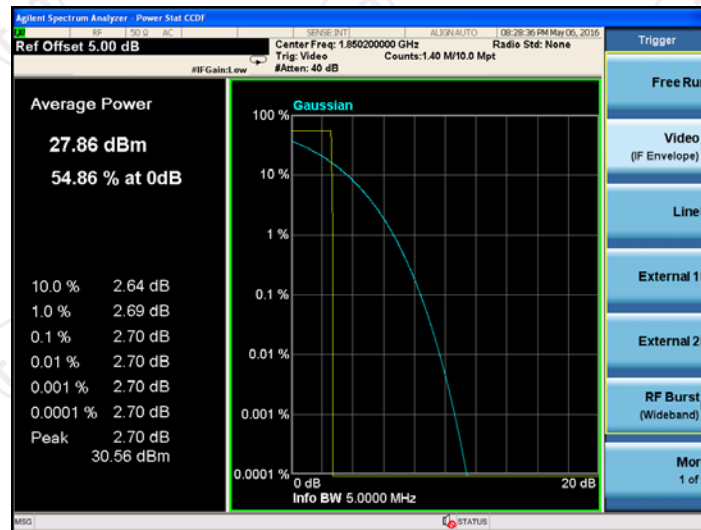
Peak-to-Average Ratio on Channel 190



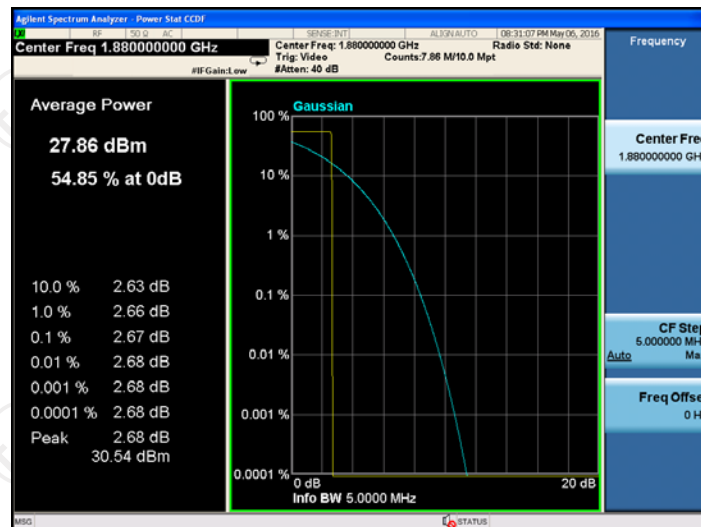
Peak-to-Average Ratio on Channel 251



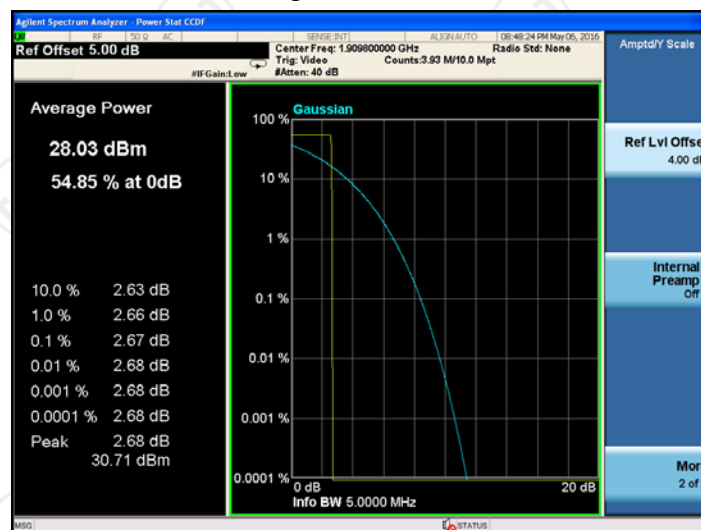
Peak-to-Average Ratio on Channel 512



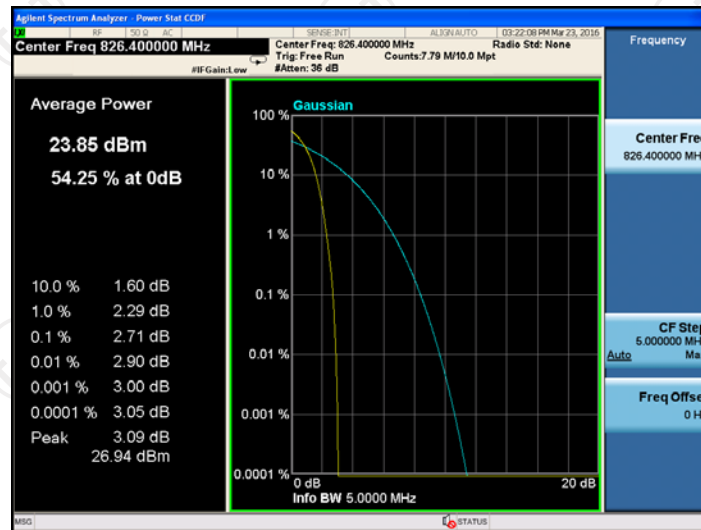
Peak-to-Average Ratio on Channel 661



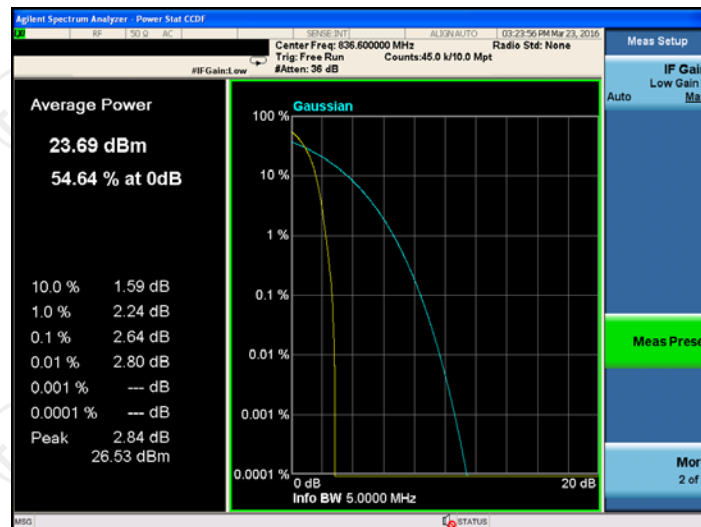
Peak-to-Average Ratio on Channel 810



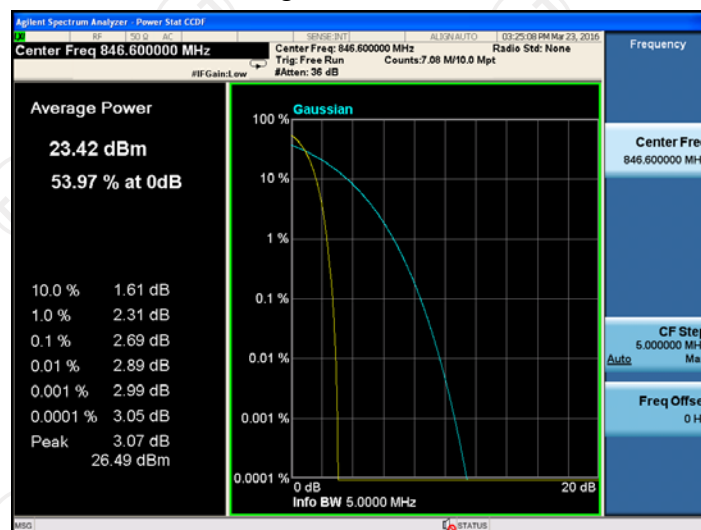
Peak-to-Average Ratio on Channel 4132



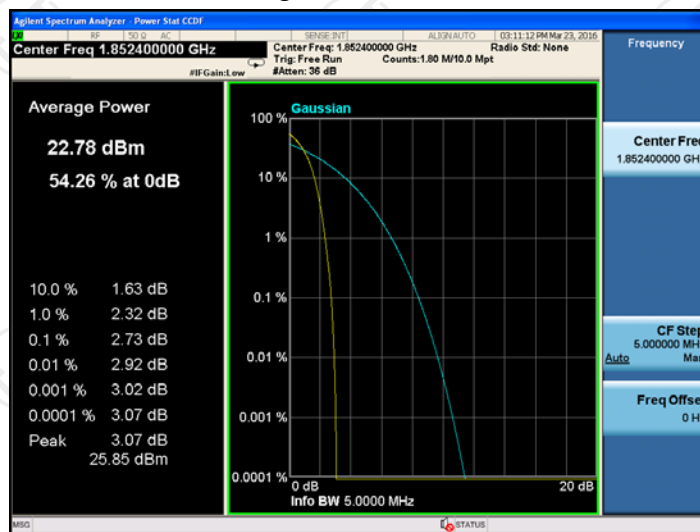
Peak-to-Average Ratio on Channel 4183



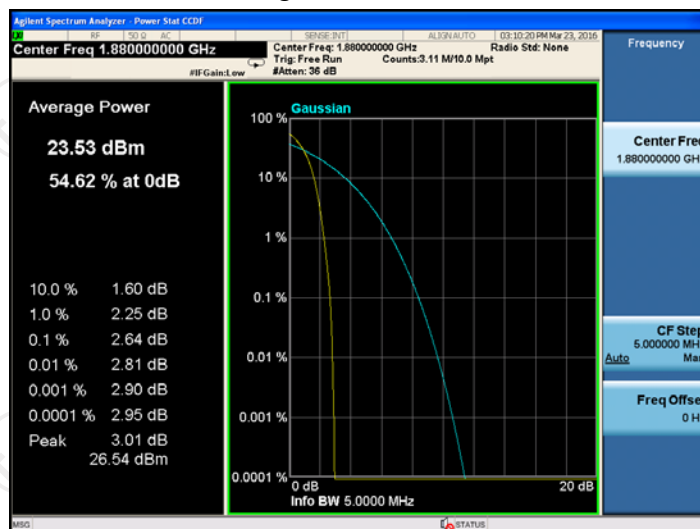
Peak-to-Average Ratio on Channel 4233



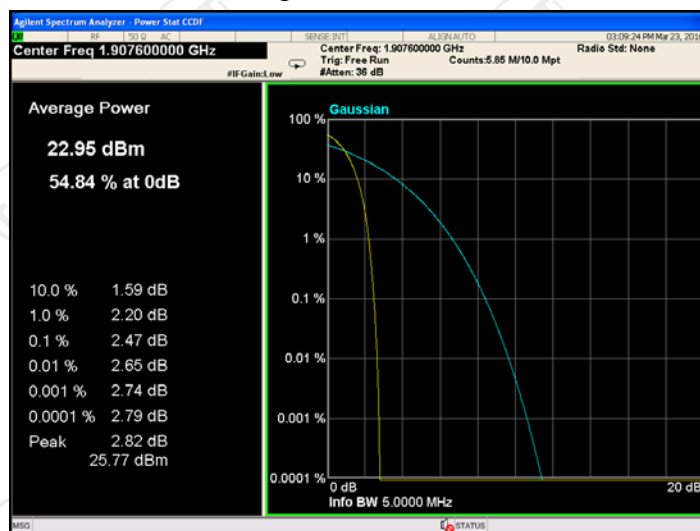
Peak-to-Average Ratio on Channel 9262



Peak-to-Average Ratio on Channel 9400



Peak-to-Average Ratio on Channel 9538



6.3. 99% Occupied Bandwidth and 26dB Bandwidth Measurement

6.3.1. Test Specification

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)
Test Method:	FCC part 2.1049
Operation mode:	Refer to item 4.1
Limit:	N/A
Test Setup:	<pre> graph LR SS[System Simulator] --- PD[Power Divider] SA[Spectrum Analyzer] --- PD PD --- EUT[EUT] </pre>
Test Procedure:	1. The testing follows FCC KDB 971168 v02r02 Section 4.2. 2. The EUT was connected to the spectrum analyzer and system simulator via a power divider. 3. The RF output of the EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 4. The 99% occupied bandwidth were measured, set RBW= 1% of span, VBW= 3*RBW, sample detector, trace maximum hold. 5. The 26dB bandwidth were measured, set RBW= 1% of EBW, VBW= 3*RBW, peak detector, trace maximum hold.
Test Result:	PASS

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	111382	Sep. 11, 2016
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016
RF cable	TCT	RE-06	N/A	Sep. 12, 2016
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test data

Cellular Band						
Mode	GSM850			GSM1900		
Channel	128	512	512	512	189	251
Frequency (MHz)	824.2	1850.2	1850.2	1850.2	836.4	848.8
99% OBW (kHz)	243.65	248.26	247.60	244.14	244.42	243.77
26dB BW (kHz)	320.7	318.3	318.9	318.0	313.9	317.9

Cellular Band			
Mode	WCDMA Band V (RMC 12.2Kbps)		
Channel	4132	4183	4233
Frequency (MHz)	826.4	836.6	846.6
99% OBW (kHz)	4172.1	4149.8	4171.4
26dB BW (kHz)	4722	4715	4703

PCS Band			
Mode	WCDMA Band II (RMC 12.2Kbps)		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880	1907.6
99% OBW (kHz)	4158.9	4167.9	4164.4
26dB BW (kHz)	4695	4699	4683

Test plots as follows:

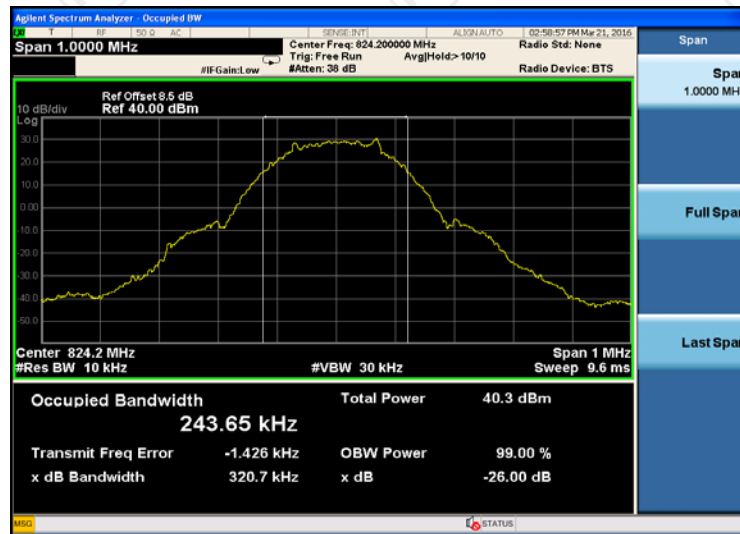
Band:

GPRS850

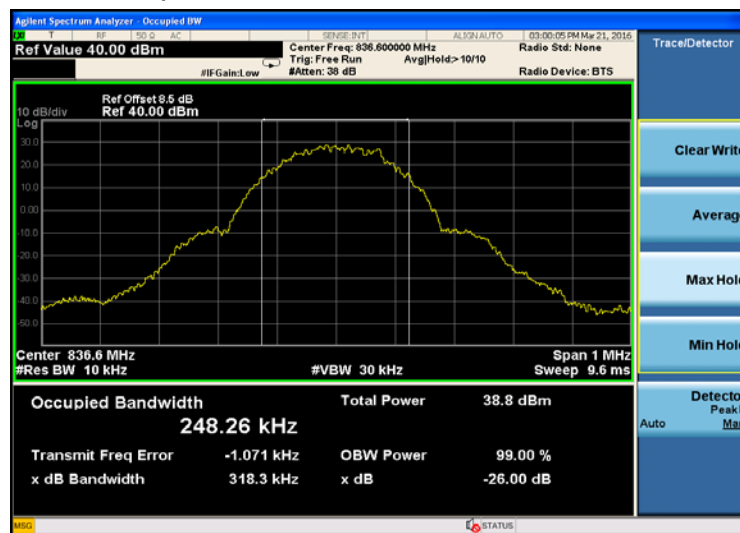
Test Mode:

GPRS Class 8 Link
(GMSK)

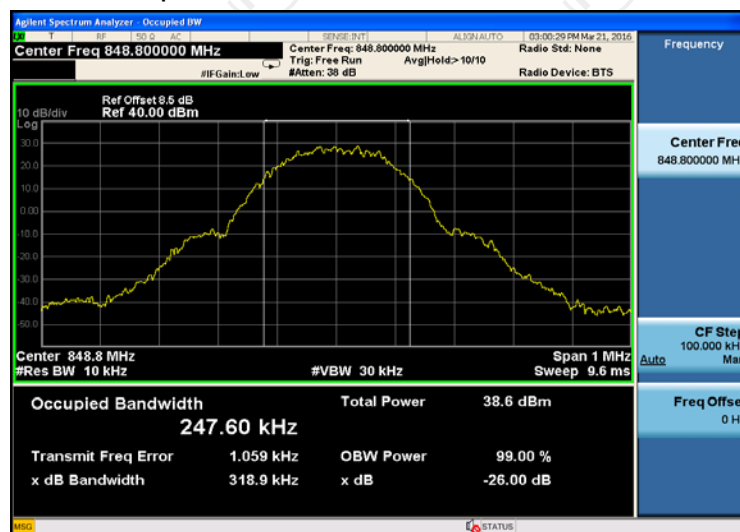
99%Occupied Bandwidth Plot on Channel 128



Occupied Bandwidth Plot on Channel 190



Occupied Bandwidth Plot on Channel 251



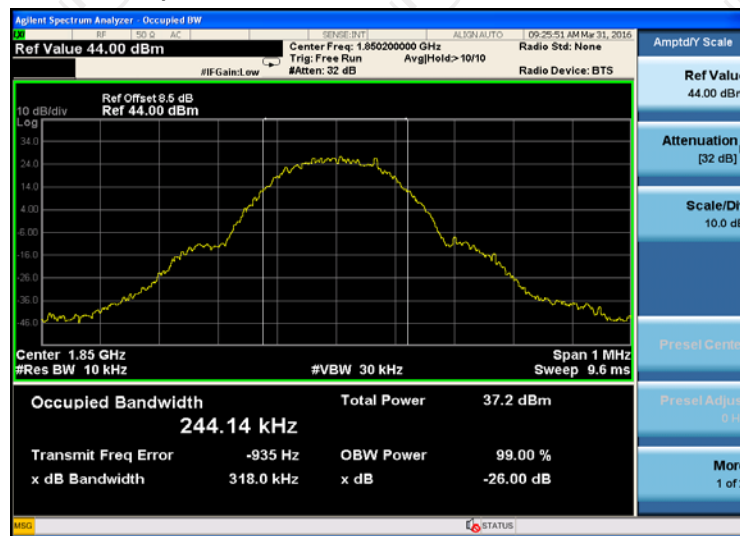
Band:

GPRS 1900

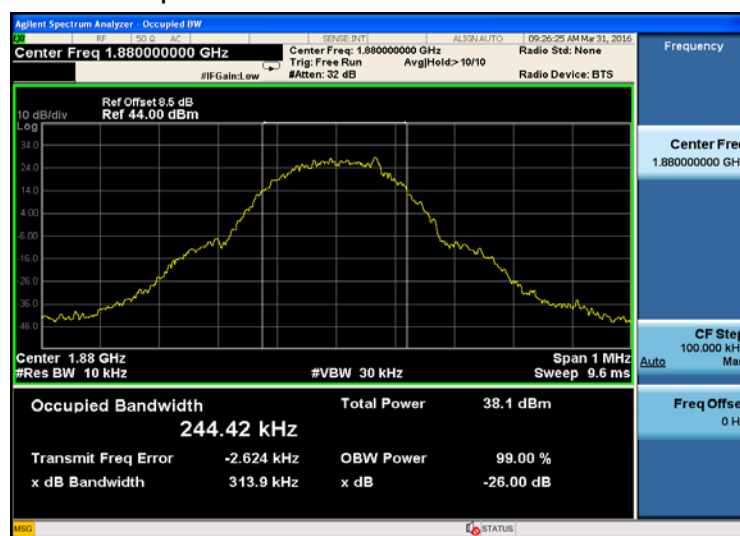
Test Mode:

GPRS Class 8 Link
(GMSK)

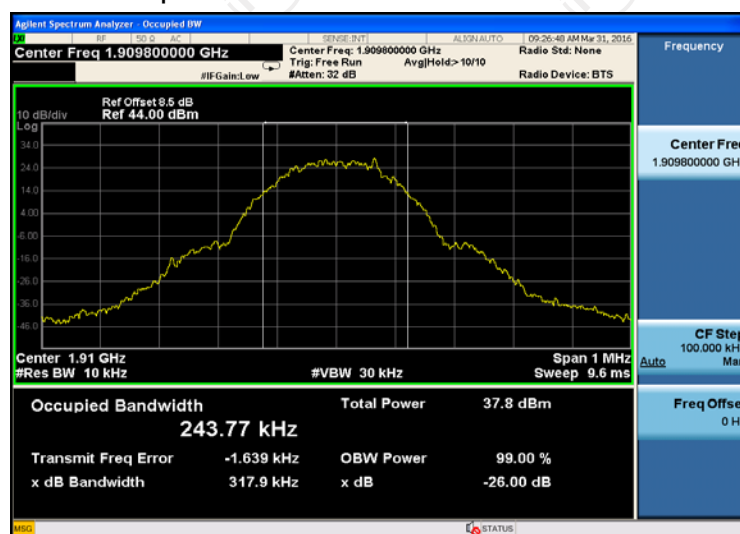
Occupied Bandwidth Plot on Channel 512



Occupied Bandwidth Plot on Channel 661



Occupied Bandwidth Plot on Channel 810



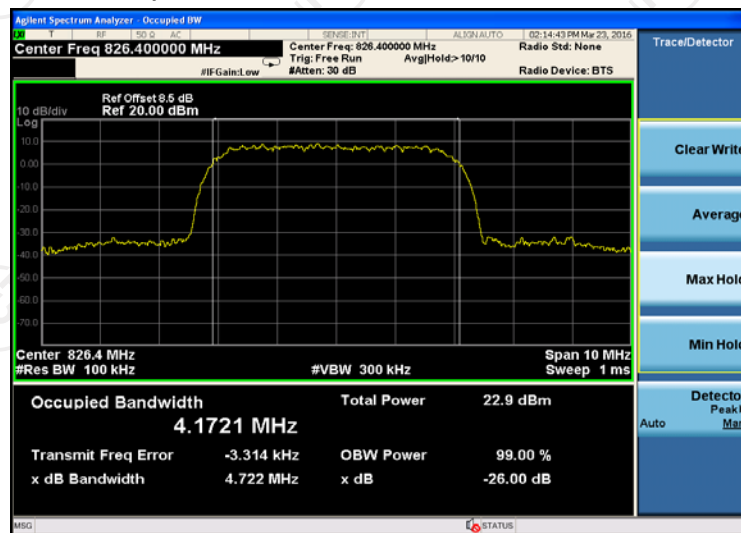
Band:

WCDMA Band V

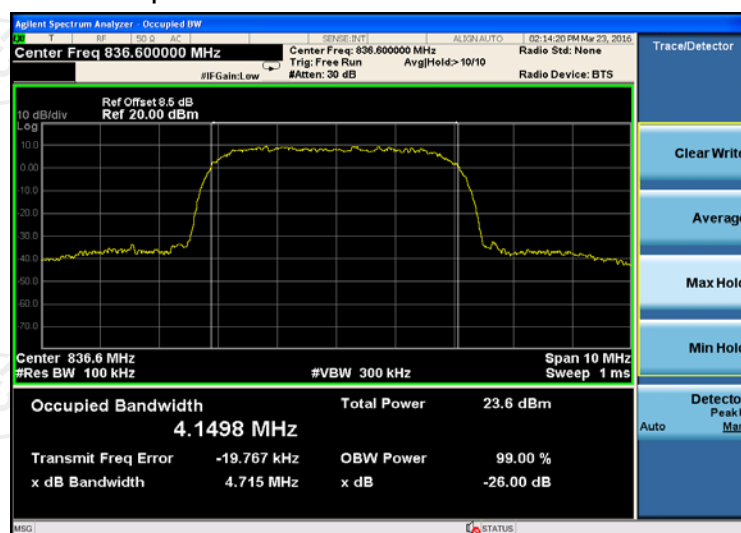
Test Mode:

RMC 12.2Kbps Link
(QPSK)

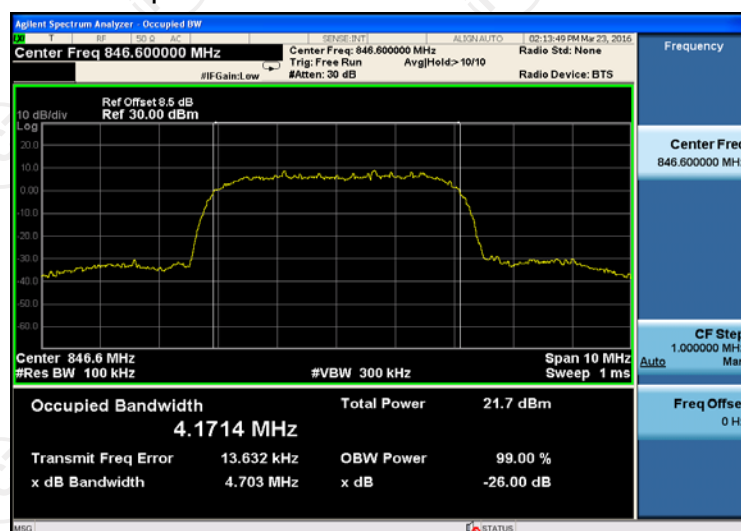
Occupied Bandwidth Plot on Channel 4132



Occupied Bandwidth Plot on Channel 4183



Occupied Bandwidth Plot on Channel 4233



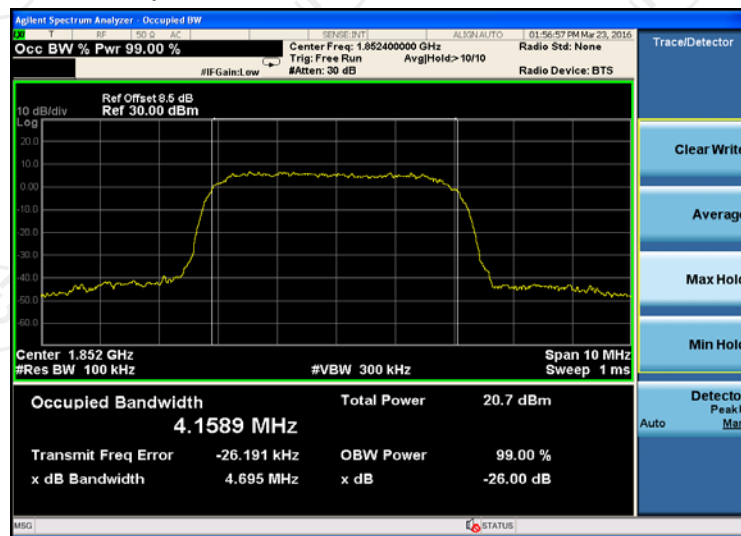
Band:

WCDMA Band II

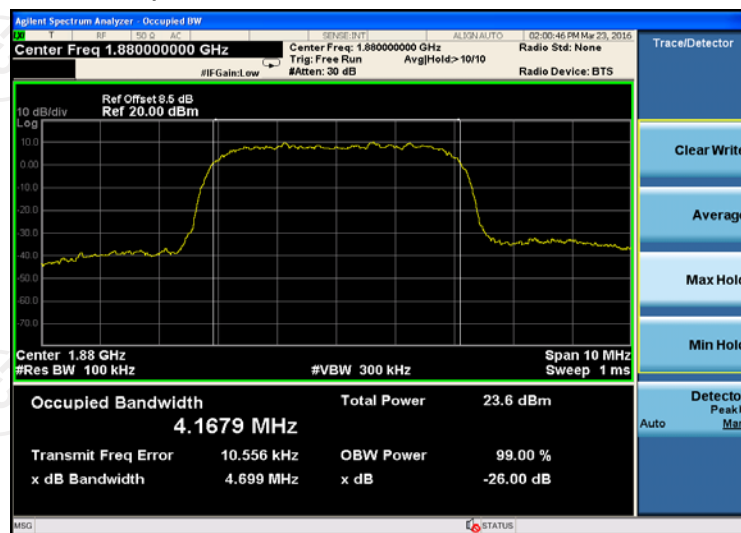
Test Mode:

RMC 12.2Kbps Link
(QPSK)

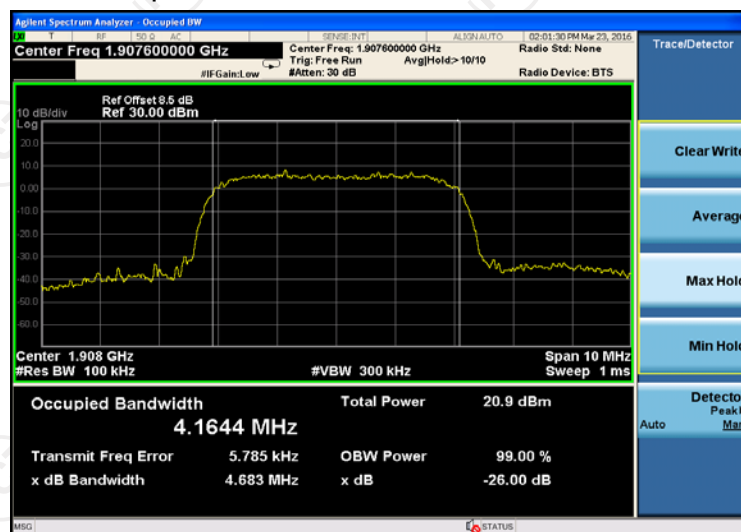
Occupied Bandwidth Plot on Channel 9262



Occupied Bandwidth Plot on Channel 9400

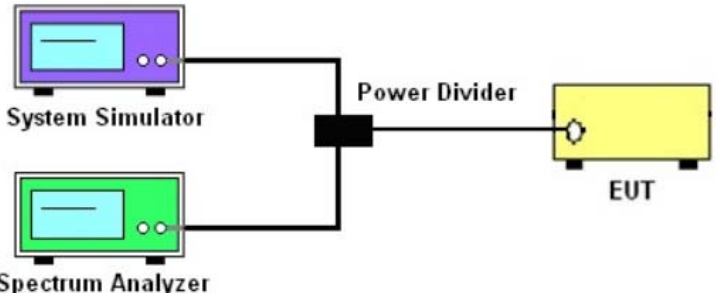


Occupied Bandwidth Plot on Channel 9538



6.4. Band Edge and Conducted Spurious Emission Measurement

6.5. Test Specification

Test Requirement:	FCC part22.917(a) and FCC part24.238(a)
Test Method:	FCC part2.1051
Operation mode:	Refer to item 4.1
Limit:	-13dBm
Test Setup:	 The diagram illustrates the test setup. A System Simulator (purple box) and a Spectrum Analyzer (green box) are connected to a Power Divider (black box). The Power Divider is then connected to the EUT (yellow box). The System Simulator and Spectrum Analyzer are connected to the Power Divider via cables. The Power Divider has two outputs: one connected to the System Simulator and the other connected to the EUT. The Spectrum Analyzer is connected to the Power Divider via a cable. The EUT is connected to the Power Divider via a cable.
Test Procedure:	1. The testing follows FCC KDB 971168 v02r02 Section 6.0. 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 band edges of low and high channels for the highest RF powers were 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 $43 + 10\log(P)$ dB below the transmitter power $P(\text{Watts}) = P(W) - [43 + 10\log(P)] (\text{dB}) = [30 + 10\log(P)] (\text{dBm}) - [43 + 10\log(P)] (\text{dB}) = -13\text{dBm}.$
Test Result:	PASS

6.5.1. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	111382	Sep. 11, 2016
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016
RF cable	TCT	RE-06	N/A	Sep. 12, 2016
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016

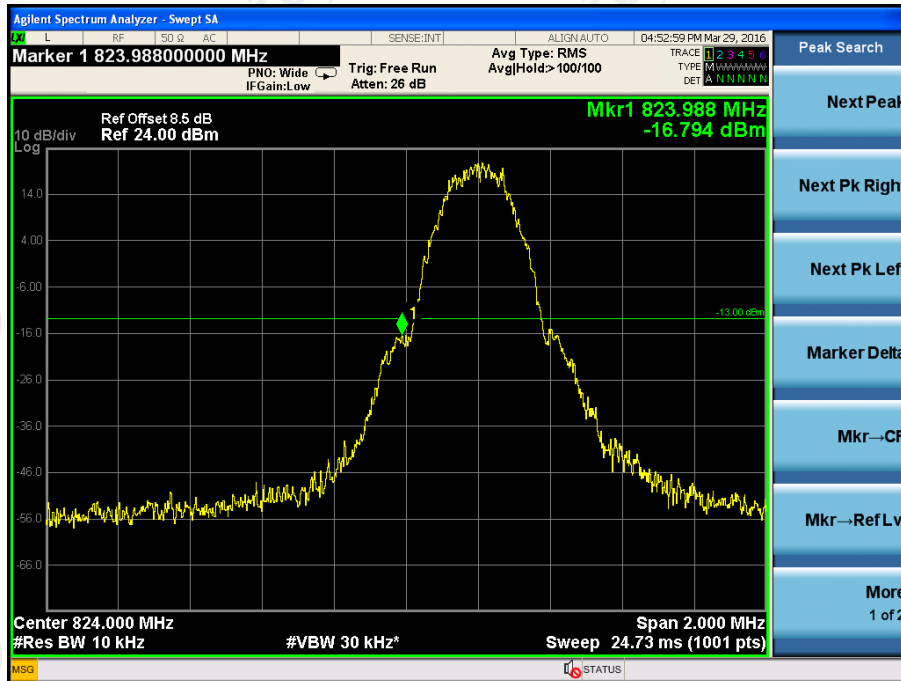
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.5.2. Test data

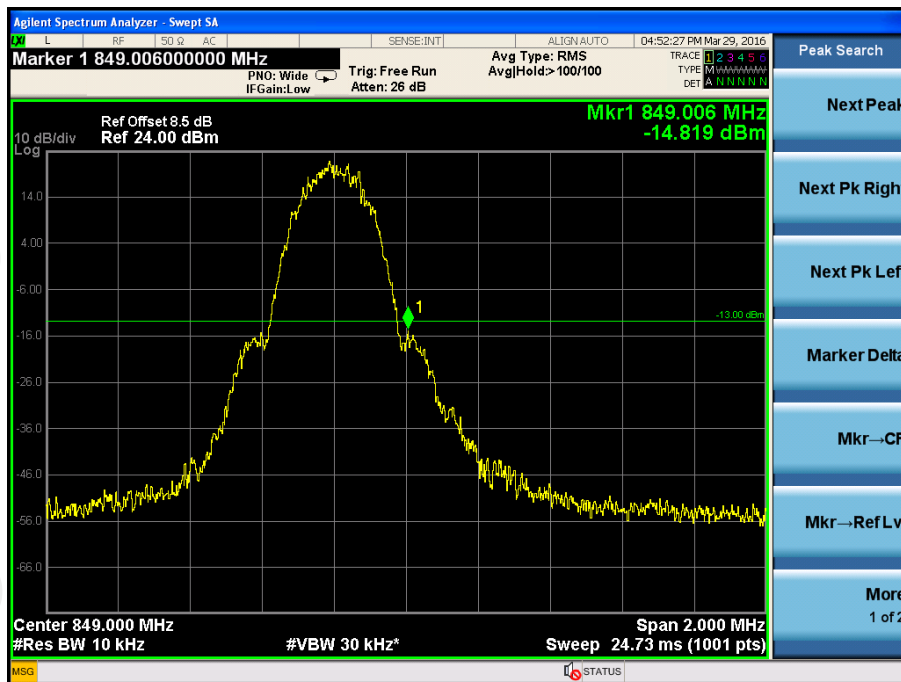
Test plots as follows:

Band:	GPRS 850	Test Mode:	GPRS Class 8 Link (GMSK)
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Lower Band Edge Plot on Channel 128

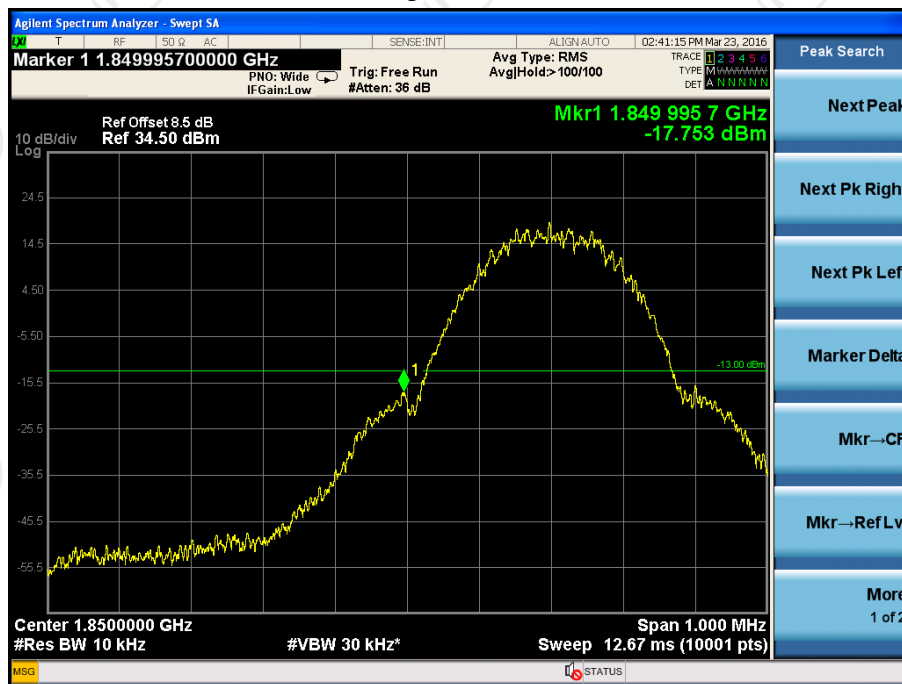


Higher Band Edge Plot on Channel 251

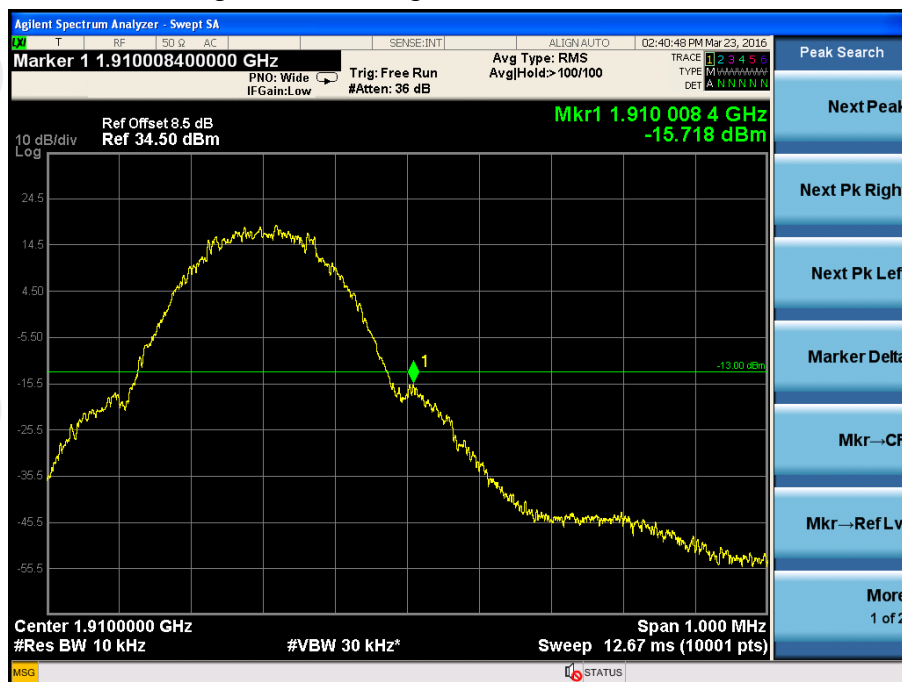


Band:	GPRS 1900	Test Mode:	GPRS Class 8 Link (GMSK)
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Lower Band Edge Plot on Channel 512

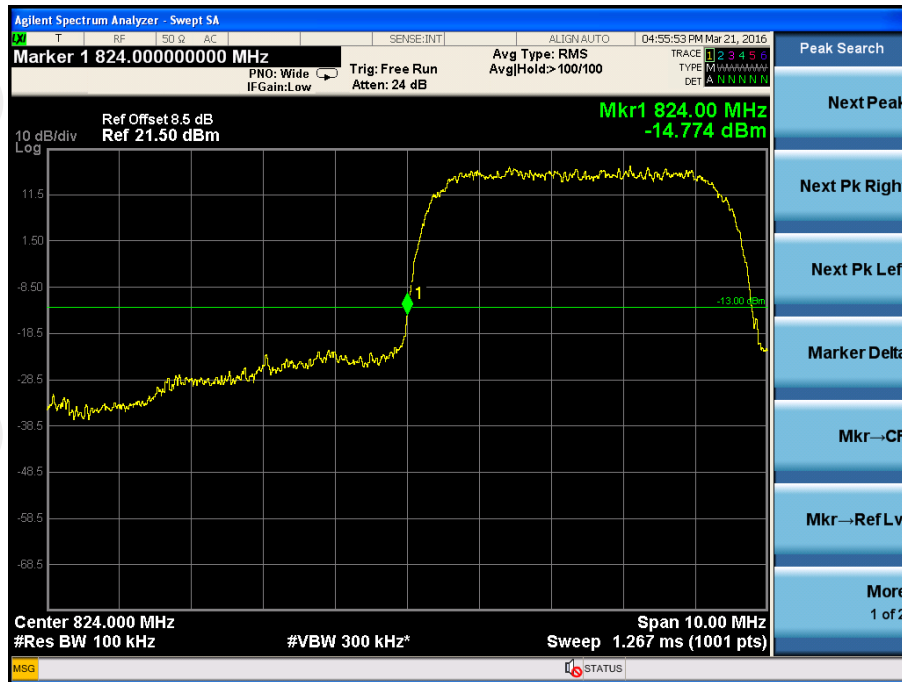


Higher Band Edge Plot on Channel 810



Band:	WCDMA Band V	Test Mode:	RMC 12.2Kbps Link (QPSK)
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Lower Band Edge Plot on Channel 4132

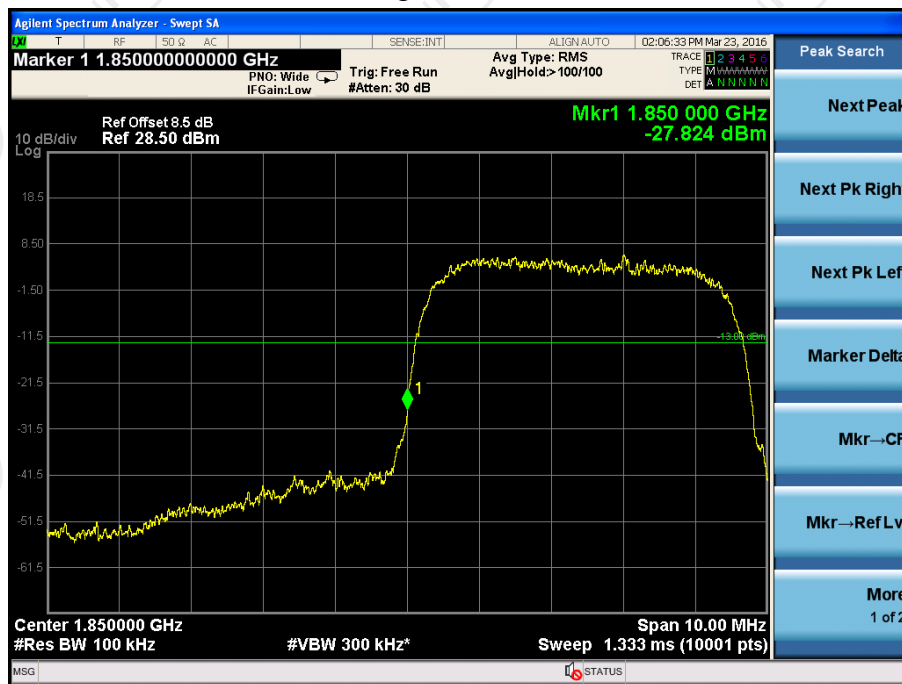


Higher Band Edge Plot on Channel 4233



Band:	WCDMA Band II	Test Mode:	RMC 12.2Kbps Link (QPSK)
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Lower Band Edge Plot on Channel 9262



Higher Band Edge Plot on Channel 9538



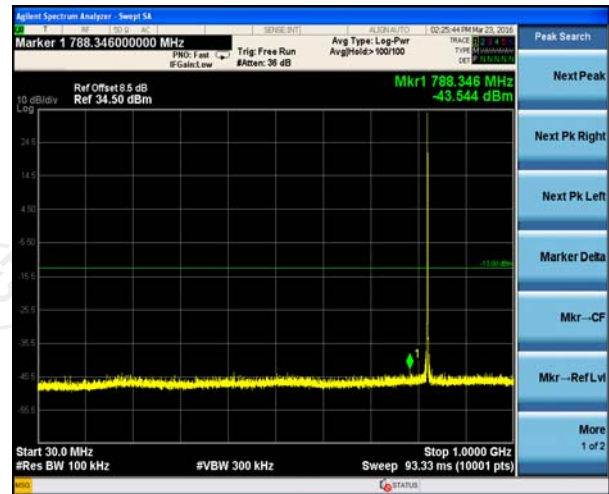
Band:

GPRS 850

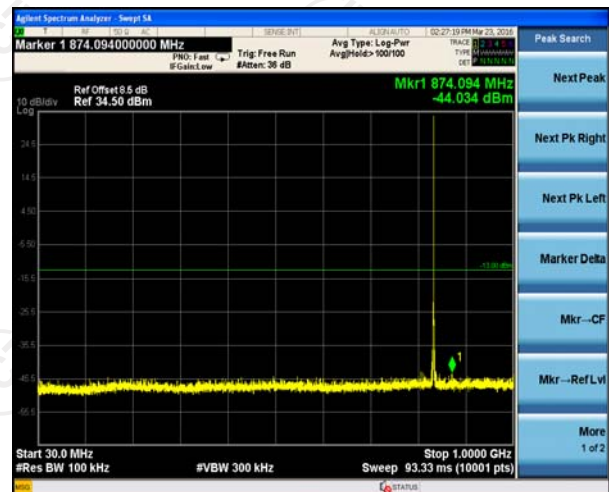
Test Mode:

GPRS Class 8 Link
(GMSK)

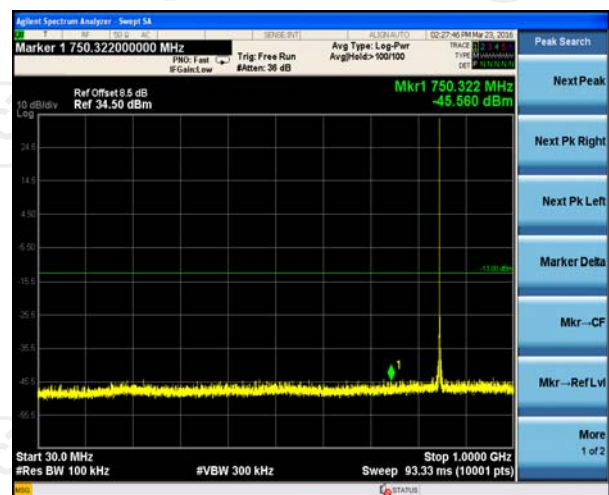
Conducted Spurious Emission on Channel 128



Conducted Spurious Emission on Channel 190



Conducted Spurious Emission on Channel 251



Band:

GPRS 1900

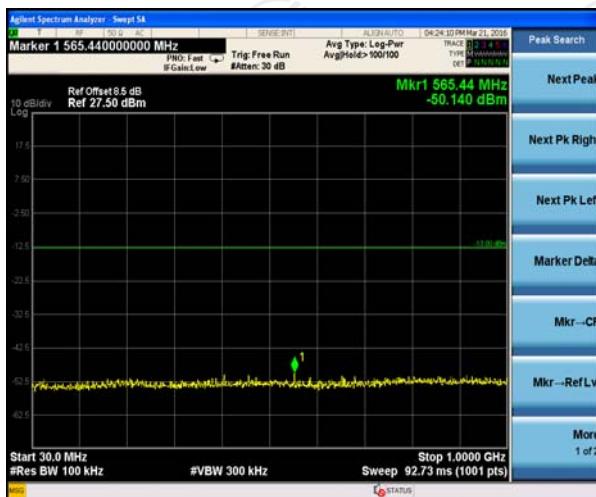
Test Mode:

GPRS Class 8 Link
(GMSK)

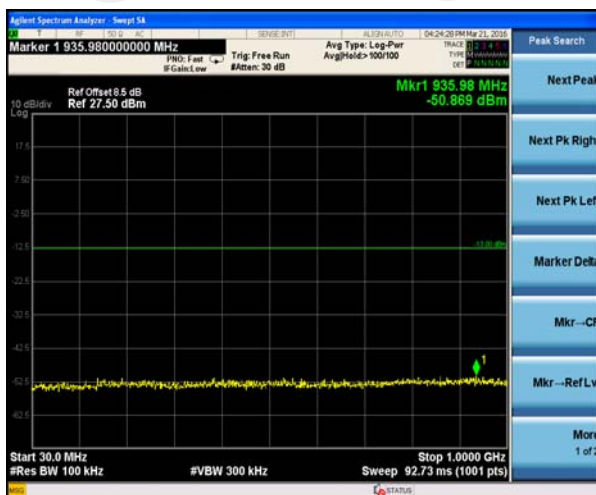
Conducted Spurious Emission on Channel 512



Conducted Spurious Emission on Channel 661



Conducted Spurious Emission on Channel 810



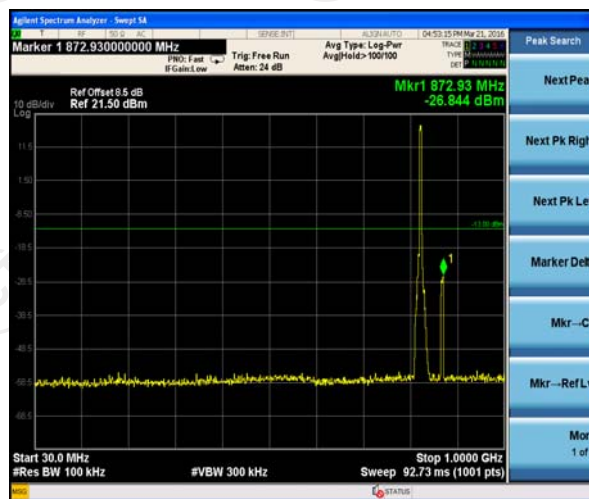
Band:

WCDMA Band V

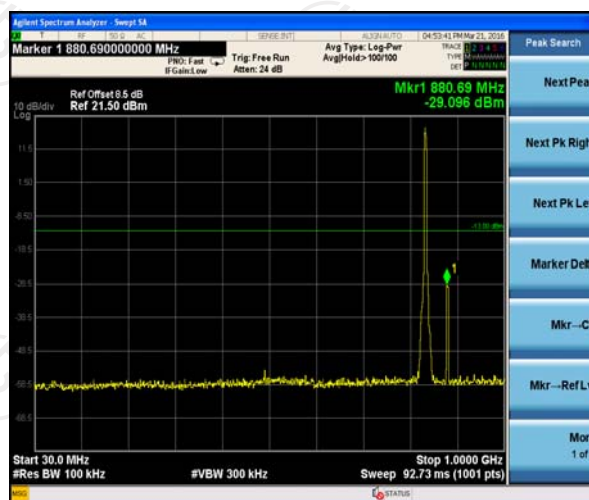
Test Mode:

RMC 12.2Kbps Link
(QPSK)

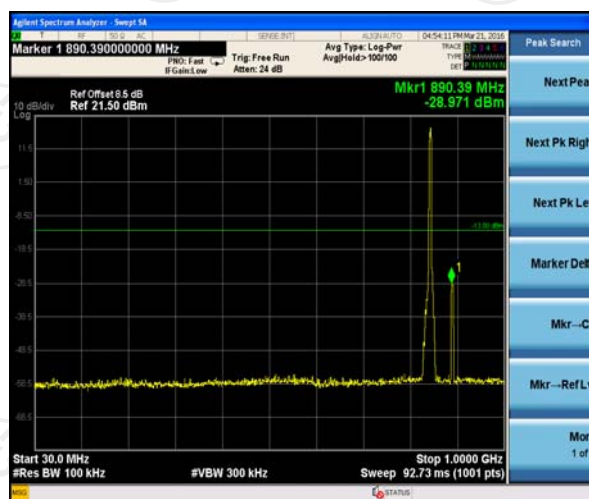
Conducted Spurious Emission on Channel 4132



Conducted Spurious Emission on Channel 4183



Conducted Spurious Emission on Channel 4233



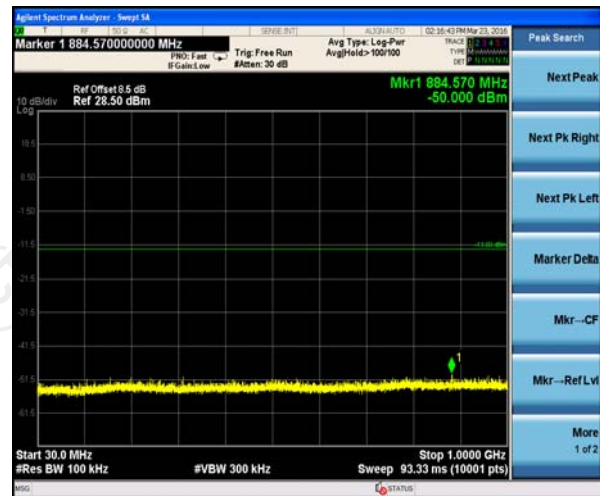
Band:

WCDMA Band II

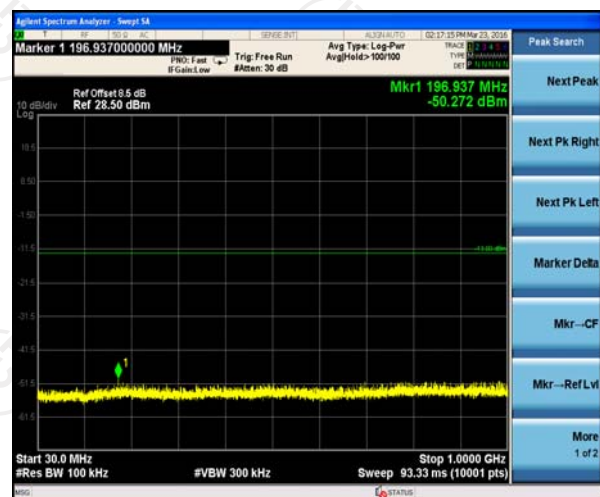
Test Mode:

RMC 12.2Kbps Link
(QPSK)

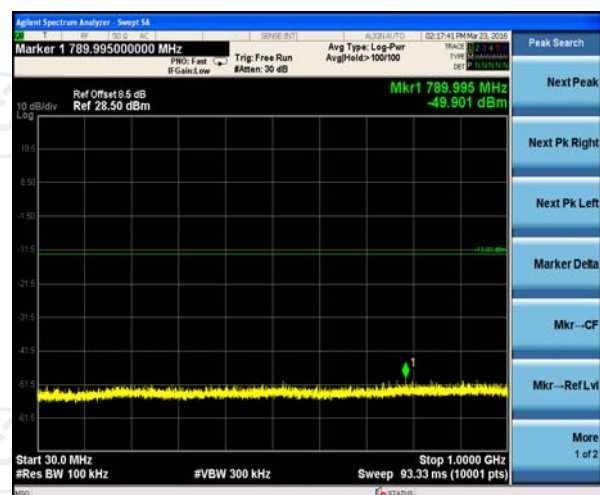
Conducted Spurious Emission on Channel 9262



Conducted Spurious Emission on Channel 9400

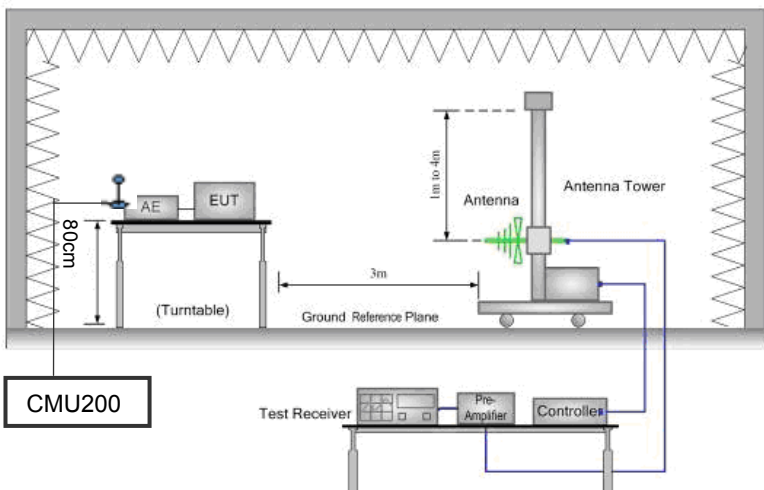


Conducted Spurious Emission on Channel 9538



6.6. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

6.6.1. Test Specification

Test Requirement:	FCC part 22.913(a) and FCC part 24.232(b)		
Test Method:	FCC part 2.1046		
Receiver Setup:		GSM/GPRS/EDGE	WCDMA/HSPA
	SPAN	500kHz	10MHz
	RBW	10kHz	100kHz
	VBW	30kHz	300kHz
	Detector	RMS	RMS
	Trace	Average	Average
	Average Type	Power	Power
	Sweep Count	100	100
Limit:	GSM850 7W ERP PCS1900 2W EIRP WCDMA Band V: 7W ERP WCDMA Band II: 2W EIRP		
Test Setup:			
Test Procedure:	1. The testing follows FCC KDB 971168 v02r02 Section 5.2.1. (for CDMA/WCDMA), Section 5.2.2.2 (for GSM/GPRS/EDGE) and ANSI / TIA-603-C-2004 Section 2.2.17. 2. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01. 3. During the measurement, the system simulator parameters were set to force the EUT transmitting at		

	maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations. 4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at the same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$.
Test results:	PASS

6.6.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 11, 2016
System simulator	R&S	CMU200	111382	Sep. 11, 2016
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Sep. 11, 2016
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 11, 2016
Pre-amplifier	HP	8447D	2727A05017	Sep. 11, 2016
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 13, 2016
Broadband Antenna	Schwarzbeck	VULB9163	412	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9120D	813	Sep. 13, 2016
Dipole Antenna	TCT	TCT-RF	N/A	Sep. 13, 2016
Coax cable	TCT	RE-low-01	N/A	Sep. 11, 2016
Coax cable	TCT	RE-high-02	N/A	Sep. 11, 2016
Coax cable	TCT	RE-low-03	N/A	Sep. 11, 2016
Coax cable	TCT	RE-High-04	N/A	Sep. 11, 2016
Antenna Mast	CCS	CC-A-4M	N/A	Sep. 12, 2016
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A
UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	R&S	Sep. 12, 2015	Sep. 11, 2016

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.6.3. Test Data

Test Result of ERP

GSM850 Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.40	6.54	21.66	26.05	0.40
836.40	6.31	21.54	25.70	0.37
848.80	6.57	21.46	25.88	0.39
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.40	10.31	22.42	30.58	1.14
836.40	10.25	22.65	30.75	1.19
848.80	10.62	22.26	30.73	1.18

ERP = LVL (dBm) + Correction Factor (dB) – 2.15

Correction Factor= S.G. Power - Cable loss + Substitution Antenna Gain- SPA. Reading

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.40	-2.32	21.54	17.07	0.05
836.40	-2.65	21.48	16.68	0.05
846.60	-3.03	21.62	16.44	0.04
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.40	1.25	22.74	21.84	0.15
836.40	1.03	22.62	21.5	0.14
846.60	1.18	22.56	21.59	0.14

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

Correction Factor= S.G. Power - Cable loss + Substitution Antenna Gain- SPA. Reading

Test Result of EIRP

GSM1900 Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.20	-5.21	30.15	24.94	0.31
1880.00	-5.24	31.01	25.77	0.38
1909.80	-5.14	30.34	25.20	0.33
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.20	-4.21	30.52	26.31	0.43
1880.00	-4.37	31.47	27.10	0.51
1909.80	-4.20	30.67	26.47	0.44

EIRP = LVL (dBm) + Correction Factor (dB)

Correction Factor= S.G. Power - Cable loss + Substitution Antenna Gain- SPA. Reading

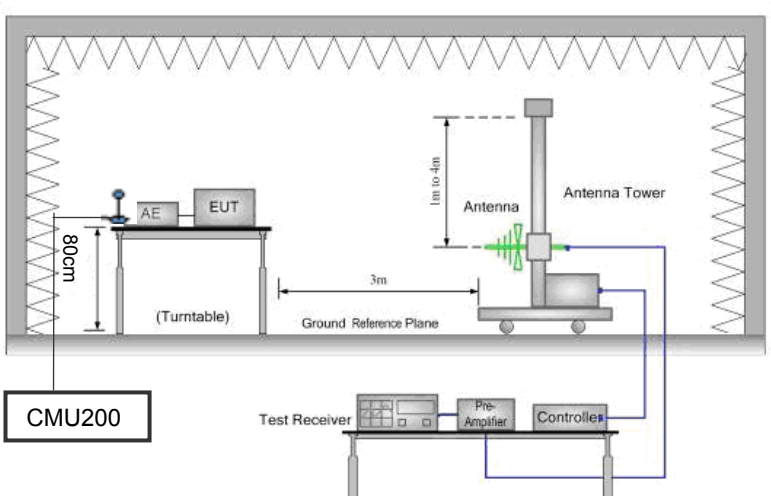
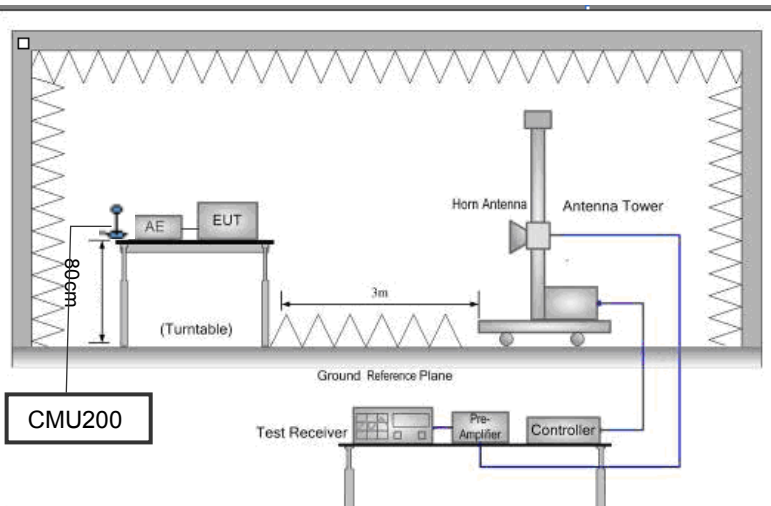
WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.40	-16.26	31.78	15.52	0.04
1880.00	-15.02	31.63	16.61	0.05
1907.60	-16.98	31.75	14.77	0.03
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.40	-10.54	31.85	21.31	0.14
1880.00	-9.05	31.39	22.34	0.17
1907.60	-10.32	31.67	21.35	0.14

* EIRP = LVL (dBm) + Correction Factor (dB)

Correction Factor= S.G. Power - Cable loss + Substitution Antenna Gain- SPA. Reading

6.7. Field Strength of Spurious Radiation Measurement

6.7.1. Test Specification

Test Requirement:	FCC part 22.917(a) and FCC part 24.238(a)
Test Method:	FCC part 2.1053
Operation mode:	Refer to item 4.1
Limit:	-13dBm
Test setup:	For 30MHz~1GHz 
	Above 1GHz 
Test Procedure:	1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12. 2. The EUT was placed on a rotatable wooden table 0.8 meters 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 $43 + 10\log(P)$ dB below the transmitter power $P(Watts)$ $= P(W) - [43 + 10\log(P)]\ (dB)$ $= [30 + 10\log(P)]\ (dBm) - [43 + 10\log(P)]\ (dB)$ $= -13dBm.$
Test results:	PASS

6.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 11, 2016
System simulator	R&S	CMU200	111382	Sep. 11, 2016
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Sep. 11, 2016
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 12, 2016
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 11, 2016
Pre-amplifier	HP	8447D	2727A05017	Sep. 11, 2016
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 13, 2016
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 13, 2016
Horn Antenna	Schwarzbeck	BBHA 9170	373	Sep. 13, 2016
Dipole Antenna	TCT	TCT-RF	N/A	Sep. 13, 2016
Coax cable	TCT	RE-low-01	N/A	Sep. 11, 2016
Coax cable	TCT	RE-high-02	N/A	Sep. 11, 2016
Coax cable	TCT	RE-low-03	N/A	Sep. 11, 2016
Coax cable	TCT	RE-High-04	N/A	Sep. 11, 2016
Antenna Mast	CCS	CC-A-4M	N/A	Sep. 12, 2016
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Limit@3m (dB μ V/m)
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Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Band	GSM 850		Test channel:	Lowest
Test mode:	GSM Link		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1648.40	Vertical	-46.31	-13.00	PASS
2472.60	V	-38.51		
3296.80	V	-49.36		
1648.40	Horizontal	-42.13		
2472.60	H	-40.39		
3296.80	H	-53.57		
Band	GSM 850		Test channel:	Middle
Test mode:	GSM Link		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.20	Vertical	-41.32	-13.00	PASS
2509.80	V	-44.64		
3346.40	V	-52.45		
1673.20	Horizontal	-41.63		
2509.80	H	-39.41		
3346.40	H	-52.42		
Band	GSM 850		Test channel:	Highest
Test mode:	GSM Link		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.60	Vertical	-40.15	-13.00	PASS
2546.40	V	-44.36		
3395.20	V	-52.19		
1697.60	Horizontal	-41.90		
2546.40	H	-40.12		
3395.20	H	-52.01		

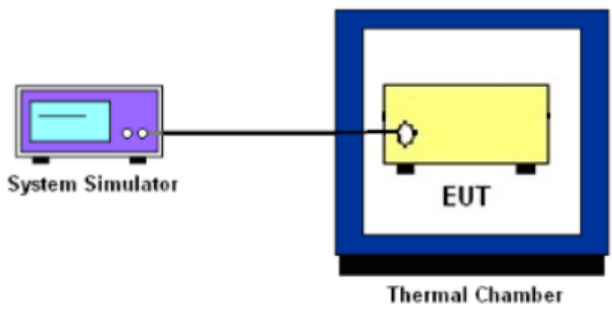
Band	PCS 1900		Test channel:	Lowest
Test mode:	PCS 1900 Link		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3700.40	Vertical	-49.16	-13.00	PASS
5550.60	V	-47.55		
7400.80	V	-52.70		
3700.40	Horizontal	-49.26		
5550.60	H	-50.90		
7400.80	H	-52.35		
Test mode:	PCS 1900		Test channel:	Middle
Test mode:	PCS 1900 Link		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-49.62	-13.00	PASS
5640.00	V	-53.42		
7520.00	V	-45.90		
3760.00	Horizontal	-47.06		
5640.00	H	-53.19		
7520.00	H	-53.06		
Test mode:	PCS 1900		Test channel:	Highest
Test mode:	PCS 1900 Link		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3819.60	Vertical	-47.08	-13.00	PASS
5729.40	V	-50.38		
7639.20	V	-53.61		
3819.60	Horizontal	-48.12		
5729.40	H	-52.39		
7639.20	H	-53.21		

Band	WCDMA Band V		Test channel:	Lowest
Test mode:	RMC 12.2Kbps Link (QPSK)		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1652.80	Vertical	-52.11	-13.00	PASS
2479.20	V	-53.20		
3305.60	V	-52.87		
1652.80	Horizontal	-53.60		
2479.20	H	-50.59		
3305.60	H	-52.25		
Test mode:	WCDMA Band V		Test channel:	Middle
Test mode:	RMC 12.2Kbps Link (QPSK)		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.20	Vertical	-53.66	-13.00	PASS
2509.80	V	-52.85		
3346.40	V	-52.13		
1673.20	Horizontal	-54.74		
2509.80	H	-51.29		
3346.40	H	-53.31		
Test mode:	WCDMA Band V		Test channel:	Highest
Test mode:	RMC 12.2Kbps Link (QPSK)		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1693.20	Vertical	-56.62	-13.00	PASS
2539.80	V	-51.48		
3386.40	V	-52.28		
1693.20	Horizontal	-52.41		
2539.80	H	-51.55		
3386.40	H	-54.22		

Band	WCDMA Band II		Test channel:	Lowest
Test mode:	RMC 12.2Kbps Link (QPSK)		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3704.80	Vertical	-51.43	-13.00	PASS
5557.20	V	-53.06		
7409.60	V	-53.02		
3704.80	Horizontal	-53.28		
5557.20	H	-51.97		
7409.60	H	-53.23		
Test mode:	WCDMA Band II		Test channel:	Middle
Test mode:	RMC 12.2Kbps Link (QPSK)		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-53.69	-13.00	PASS
5640.00	V	-52.35		
7520.00	V	-52.31		
3760.00	Horizontal	-54.09		
5640.00	H	-50.78		
7520.00	H	-53.51		
Test mode:	WCDMA Band II		Test channel:	Highest
Test mode:	RMC 12.2Kbps Link (QPSK)		Temperature :	25°C
			Relative Humidity:	56%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3815.20	Vertical	-55.99	-13.00	PASS
5722.80	V	-52.17		
7630.40	V	-52.26		
3815.20	Horizontal	-52.83		
5722.80	H	-51.87		
7630.40	H	-54.80		

6.8. Frequency Stability Measurement

6.8.1. Test Specification

Test Requirement:	FCC Part 2.1055(a)(1)(b)
Test Method:	FCC Part 2.1055(a)(1)(b)
Operation mode:	Refer to item 4.1
Limit:	± 2.5 ppm
Test Setup:	 The diagram shows a purple 'System Simulator' connected by a black line to a yellow 'EUT' (Equipment Under Test). The EUT is positioned inside a blue-outlined 'Thermal Chamber'.
Test Procedure:	Test Procedures for Temperature Variation 1. The testing follows FCC KDB 971168 v02r02 Section 9.0. 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 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. Test Procedures for Voltage Variation 1. The testing follows FCC KDB 971168 v02r02 Section 9.0. 2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator. 3. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT. 4. The variation in frequency was measured for the worst case.
Test Result:	PASS

6.8.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
System simulator	R&S	CMU200	111382	Sep. 11, 2016

RF cable	TCT	RE-06	N/A	Sep. 12, 2016
Antenna Connector	TCT	RFC-01	N/A	Sep. 12, 2016

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.8.3. Test Data

Test Result of Temperature Variation

Band :	GSM 850	Channel:	189
Limit (ppm) :	2.5	Frequency:	836.4MHz
Temperature (°C)	GSM850 Deviation (ppm)	GPRS Class8 Deviation (ppm)	Result
50	0.011	0.009	PASS
40	0.013	0.013	
30	0.012	0.011	
20	0.009	0.011	
10	0.011	0.010	
0	0.012	0.013	
-10	0.008	0.010	
-20	0.009	0.012	
-30	0.011	0.013	

Band :	GSM 1900	Channel:	661
Limit (ppm) :	Note	Frequency:	1880MHz
Temperature (°C)	GSM1900 Deviation (ppm)	GPRS Class8 Deviation (ppm)	Result
50	0.023	0.012	PASS
40	0.021	0.018	
30	0.019	0.015	
20	0.018	0.016	
10	0.022	0.013	
0	0.023	0.016	
-10	0.018	0.016	
-20	0.017	0.014	
-30	0.022	0.018	

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

Band :	WCDMA Band V	Channel:	4183
Limit (ppm) :	2.5ppm	Frequency:	836.6MHz
Temperature (°C)	Frequency Deviation (ppm)	Result	
50	0.017	PASS	
40	0.012		
30	0.001		
20	0.006		
10	0.014		
0	0.012		
-10	0.011		
-20	0.014		
-30	0.013		

Band :	WCDMA Band II	Channel:	9400
Limit (ppm) :	Note	Frequency:	1880MHz
Temperature (°C)	Frequency Deviation (ppm)	Result	
50	0.016	PASS	
40	0.017		
30	0.014		
20	0.014		
10	0.016		
0	0.022		
-10	0.015		
-20	0.015		
-30	0.016		

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

Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
GSM 850 CH190	GPRS Class 8	4.2	0.026	2.5	PASS
		3.7	0.023		
		BEP	0.017		
GSM 1900 CH661	GPRS Class 8	4.2	0.012	(Note 3.)	
		3.7	0.009		
		BEP	0.001		
WCDMA Band V CH4183	RMC 12.2Kbps	4.2	0.021	2.5	
		3.7	0.017		
		BEP	0.019		
WCDMA Band II CH9400	RMC 12.2Kbps	4.2	0.014	(Note 3.)	
		3.7	0.015		
		BEP	0.019		

Note:

1. Normal Voltage = 3.7V.
2. Battery End Point (BEP) = 3.5 V.
3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

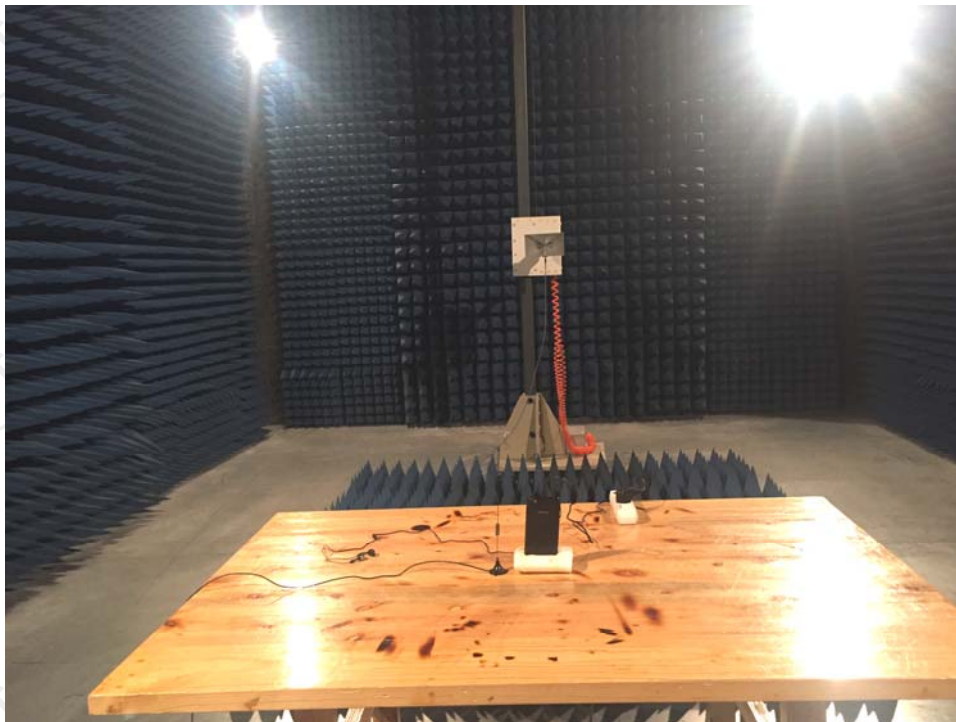
*******END OF REPORT*******

Appendix A: Photographs of Test Setup

Product: Smart Mobile Phone

Model No.: Gpower 3

Radiated Emission



Appendix B: Photographs of EUT

Refer to test report TCT160308E005