



FCC TEST REPORT (PART 24)

REPORT NO.: RF121218C06A-1

MODEL NO.: PN07100

FCC ID: NM8PN07100

RECEIVED: Dec. 22, 2012

TESTED: Jan. 04, 2013 ~ Jan. 19, 2013

ISSUED: Jan. 30, 2013

APPLICANT: HTC Corporation

ADDRESS: 23, Xinghua Rd., Taoyuan 330, Taiwan, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New
Taipei City, Taiwan (R.O.C.)

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF121218C06A-1	Original release	Jan. 30, 2013



1 CERTIFICATION

PRODUCT: Smartphone

MODEL: PN07100

BRAND: HTC

APPLICANT: HTC Corporation

TESTED: Jan. 04, 2013 ~ Jan. 19, 2013

TEST SAMPLE: Production Unit

STANDARDS: FCC Part 24, Subpart E

The above equipment (model: PN07100) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Ivonne Wu , **DATE** : Jan. 30, 2013
Ivonne Wu / Senior Specialist

APPROVED BY : Anderson Chiu , **DATE** : Jan. 30, 2013
Anderson Chiu / Senior Engineer



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2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
2.1046 24.232	Equivalent isotropically radiated power	PASS	Meet the requirement of limit.
2.1055 24.235	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 24.238(b)	Occupied Bandwidth	PASS	Meet the requirement of limit.
24.232(d)	Peak to average ratio	PASS	Meet the requirement of limit.
24.238(b)	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 24.238	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -21.52dB at 30.27MHz.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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



2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100744	Apr. 19, 2012	Apr. 18, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2012	Dec. 16, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Apr. 03, 2012	Apr. 02, 2013
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 07, 2013	Jan. 06, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 25, 2012	Dec. 24, 2013
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 184045	980116	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2012	Dec. 27, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable Worken	RG-213	NA	Dec. 29, 2012	Dec. 28, 2013
Software	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Mar. 23, 2012	Mar. 22, 2013
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY52102049	Jun. 11, 2012	Jun. 10, 2013
Radio Communication Analyzer	MT8820C	6201168830	Jul. 17, 2012	Jul. 16, 2013

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 460141.
5. The IC Site Registration No. is IC 7450F-4.



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3 GENERAL INFORMATION

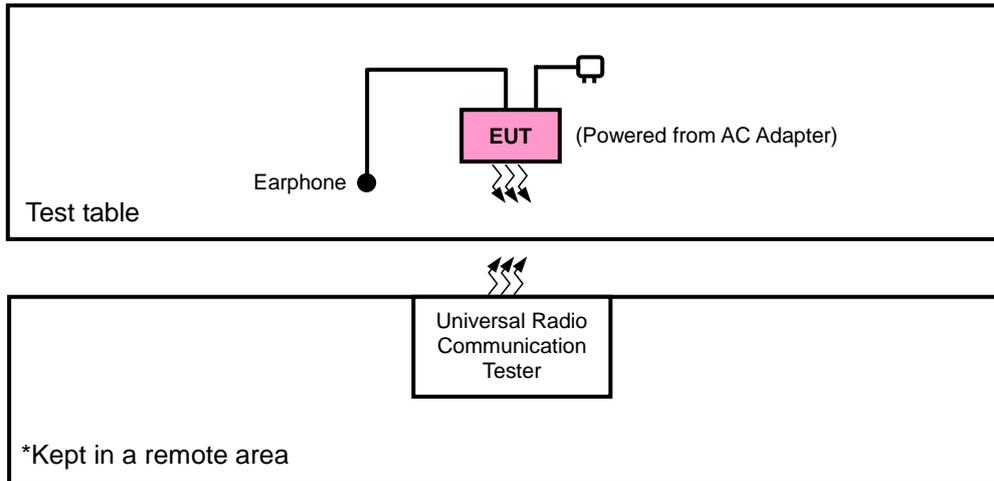
3.1 GENERAL DESCRIPTION OF EUT

EUT	Smartphone	
MODEL NO.	PN07100	
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)	
MODULATION TYPE	GSM/GPRS	GMSK
	EDGE	8PSK
	WCDMA	BPSK
FREQUENCY RANGE	GSM/GPRS/EDGE	1850.2MHz ~ 1909.8MHz
	WCDMA	1852.4MHz ~ 1907.6MHz
MAX. EIRP POWER	GSM	957.19mW
	EDGE	348.34mW
	WCDMA	287.74mW
EMISSION DESIGNATOR	GSM	247KGXW
	EDGE	243KG7W
	WCDMA	4M18F9W
MULTI-SLOTS CLASS	12	
WCDMA RELEASE VERSION	6	
ANTENNA TYPE	GSM	Fixed Internal
	EDGE	
	WCDMA	
I/O PORTS	Refer to users' manual	
DATA CABLE	Refer to NOTE as below	
ACCESSORY DEVICES	Refer to NOTE as below	

NOTE:

1. The EUT's accessories list refers to Ext Pho.
2. The device has 2 configurations as below.
Main Sample (A): Battery 1 + LCD Panel 1 + Front Camera 1
2nd Sample (B): Battery 2 + LCD Panel 2 + Front Camera 2
3. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found when positioned on Y-axis for mode A & B with antenna 0 and X-axis for mode A with antenna 1 for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	TEST ITEM
A	Main Sample
B	2 nd Sample

GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A, B	EIRP	512 to 810	512, 661, 810	GSM, EDGE
A	FREQUENCY STABILITY	512 to 810	661	GSM, EDGE
A	OCCUPIED BANDWIDTH	512 to 810	512, 661, 810	GSM, EDGE
A	PEAK TO AVERAGE RATIO	512 to 810	512, 661, 810	GSM, EDGE
A	BAND EDGE	512 to 810	512, 810	GSM, EDGE
A	CONDCUDED EMISSION	512 to 810	661	GSM
A	RADIATED EMISSION	512 to 810	661	GSM, EDGE
B	RADIATED EMISSION	512 to 810	661	GSM

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A, B	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
A	FREQUENCY STABILITY	9262 to 9538	9400	WCDMA
A	OCCUPIED BANDWIDTH	9262 to 9538	9262, 9400, 9538	WCDMA
A	PEAK TO AVERAGE RATIO	9262 to 9538	9262, 9400, 9538	WCDMA
A	BAND EDGE	9262 to 9538	9262, 9538	WCDMA
A	CONDCUDED EMISSION	9262 to 9538	9400	WCDMA
A	RADIATED EMISSION	9262 to 9538	9400	WCDMA



TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	26deg. C, 58%RH	3.8Vdc	Howard Kao
FREQUENCY STABILITY	26deg. C, 58%RH	3.8Vdc	Howard Kao
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.8Vdc	Howard Kao
BAND EDGE	26deg. C, 58%RH	3.8Vdc	Howard Kao
CONDCUDED EMISSION	26deg. C, 58%RH	3.8Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Kay Wu

3.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 24

ANSI/TIA/EIA-603-C 2004

NOTE: All test items have been performed and recorded as per the above standards.

4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP

4.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

- a. The EUT was placed on a turntable with 1.727 meter height in a fully anechoic chamber.
- b. The EUT was set at 4.858 meters from the receiving antenna, which was mounted on the antenna tower.
- c. The EUT was rotated along 2 axis: Theta-axis: 180 degree and Phi-axis: 360 degree, Step Size: 15 degree.
- d. The height of the receiving antenna is fixed.
- e. Taking the record of received power.
- f. A dipole antenna was used in place of the EUT for pathloss calibration with a network analyzer.
- g. The gain of the dipole antenna and the insertion loss of the connected RF cable were applied into the pathloss calibration.
- h. The maximum ERP/EIRP was calculated with received power and pathloss.
- i. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

$E_s = R_s + AF$

AF (dB/m) : Receiver antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

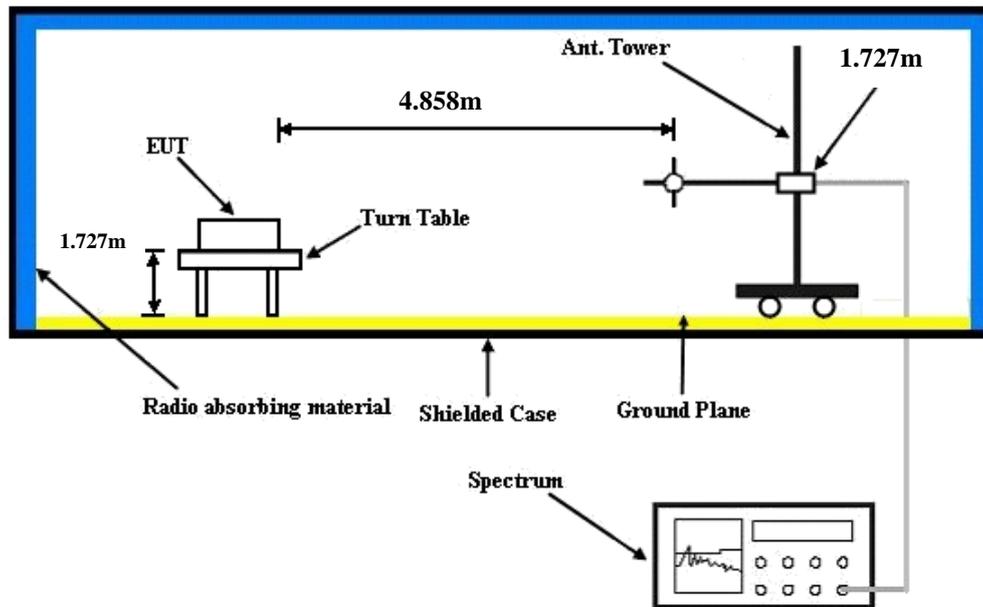
R_s : The highest received signal in spectrum analyzer for substitution antenna.

CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with GSM, GPRS, EDGE & WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:





4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GSM1900					
Antenna	Antenna 0			Antenna 1		
Channel	512	661	810	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8	1850.2	1880.0	1909.8
GSM (1 Uplink)	30.00	29.83	29.91	30.47	30.34	30.37
GPRS 8 (GMSK, 1 slot)	29.97	29.81	29.84	30.46	30.33	30.36
GPRS 10 (GMSK, 2 slot)	28.72	28.55	28.58	29.46	29.33	29.36
GPRS 11 (GMSK, 3 Uplink)	26.43	26.27	26.30	27.02	26.89	26.92
GPRS 12 (GMSK, 4 Uplink)	25.00	24.84	24.87	25.75	25.62	25.65
EDGE 8 (GMSK, 1 Uplink)	29.65	29.49	29.52	30.42	30.29	30.32
EDGE 10 (GMSK, 2 Uplink)	28.71	28.55	28.58	29.43	29.30	29.33
EDGE 11 (GMSK, 3 Uplink)	26.42	26.26	26.29	27.00	26.87	26.90
EDGE 12 (GMSK, 4 Uplink)	24.97	24.81	24.84	25.73	25.60	25.63
EDGE 8 (8PSK, 1 Uplink)	25.99	25.83	25.86	26.66	26.53	26.56
EDGE 10 (8PSK, 2 Uplink)	25.83	25.67	25.70	26.42	26.29	26.32
EDGE 11 (8PSK, 3 Uplink)	25.44	25.28	25.31	25.73	25.60	25.63
EDGE 12 (8PSK, 4 Uplink)	24.48	24.32	24.35	24.96	24.83	24.86
DTM 9 (GMSK, 2 Uplink)	28.67	28.50	28.58	29.40	29.27	29.24
DTM 11 (GMSK, 3 Uplink)	26.41	26.24	26.32	26.83	26.70	26.67
DTM 9 (8PSK, 2 Uplink)	25.80	25.63	25.71	26.39	26.26	26.23
DTM 11 (8PSK, 3 Uplink)	25.41	25.24	25.32	25.53	25.40	25.37

Band	WCDMA II					
Antenna	Antenna 0			Antenna 0		
Channel	9262	9400	9538	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6	1852.4	1880.0	1907.6
RMC 12.2K	23.67	23.70	23.38	23.49	23.52	22.95
HSDPA Subtest-1	22.64	22.67	22.45	22.59	22.62	22.05
HSDPA Subtest-2	22.75	22.78	22.56	22.43	22.46	21.89
HSDPA Subtest-3	22.17	22.20	21.98	22.01	22.04	21.47
HSDPA Subtest-4	22.18	22.21	21.99	21.88	21.91	21.34
HSUPA Subtest-1	22.55	22.58	22.36	22.45	22.47	22.40
HSUPA Subtest-2	21.47	21.50	21.28	21.42	21.45	20.88
HSUPA Subtest-3	21.15	21.18	20.96	21.25	21.28	20.71
HSUPA Subtest-4	21.49	21.52	21.30	21.41	21.44	20.87
HSUPA Subtest-5	22.78	22.81	22.59	22.61	22.64	22.07



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EIRP POWER (dBm)

TEST MODE A

ANT.0

GSM Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-25.92	-51.88	0.00	1.96	27.92	619.44
1880.0	-26.78	-52.99	0.00	2.00	28.21	662.22
1909.8	-26.45	-54.28	0.00	1.98	29.81	957.19
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-32.14	-52.13	0.00	1.96	21.95	156.68
1880.0	-32.61	-53.17	0.00	2.00	22.56	180.30
1909.8	-31.90	-54.13	0.00	1.98	24.21	263.63

EDGE Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-29.35	-51.88	0.00	1.96	24.49	281.19
1880.0	-29.93	-52.99	0.00	2.00	25.06	320.63
1909.8	-30.84	-54.28	0.00	1.98	25.42	348.34
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-35.70	-52.13	0.00	1.96	18.39	69.02
1880.0	-36.22	-53.17	0.00	2.00	18.95	78.52
1909.8	-36.76	-54.13	0.00	1.98	19.35	86.10



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WCDMA Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1852.4	-30.42	-51.88	0.00	1.96	23.42	219.79
1880.0	-30.70	-52.99	0.00	2.00	24.29	268.53
1907.6	-32.12	-54.28	0.00	1.98	24.14	259.42
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1852.4	-37.01	-52.13	0.00	1.96	17.08	51.05
1880.0	-36.79	-53.17	0.00	2.00	18.38	68.87
1907.6	-38.04	-54.13	0.00	1.98	18.07	64.12



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GSM Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-32.81	-51.88	0.00	1.96	21.03	126.77
1880.0	-33.76	-52.99	0.00	2.00	21.23	132.74
1909.8	-34.24	-54.28	0.00	1.98	22.02	159.22
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-38.81	-52.13	0.00	1.96	15.28	33.73
1880.0	-39.09	-53.17	0.00	2.00	16.08	40.55
1909.8	-39.61	-54.13	0.00	1.98	16.50	44.67

EDGE Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-36.12	-51.88	0.00	1.96	17.72	59.16
1880.0	-37.18	-52.99	0.00	2.00	17.81	60.39
1909.8	-37.95	-54.28	0.00	1.98	18.31	67.76
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-43.20	-52.13	0.00	1.96	10.89	12.27
1880.0	-44.22	-53.17	0.00	2.00	10.95	12.45
1909.8	-44.46	-54.13	0.00	1.98	11.65	14.62



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WCDMA Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1852.4	-37.96	-51.88	0.00	1.96	15.88	38.73
1880.0	-38.63	-52.99	0.00	2.00	16.36	43.25
1907.6	-39.97	-54.28	0.00	1.98	16.29	42.56
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1852.4	-43.95	-52.13	0.00	1.96	10.14	10.33
1880.0	-44.32	-53.17	0.00	2.00	10.85	12.16
1907.6	-45.17	-54.13	0.00	1.98	10.94	12.42



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TEST MODE B

ANT.0

GSM Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-25.80	-51.88	0.00	1.96	28.04	636.80
1880.0	-26.81	-52.99	0.00	2.00	28.18	657.66
1909.8	-27.33	-54.28	0.00	1.98	28.93	781.63
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-32.01	-52.13	0.00	1.96	22.08	161.44
1880.0	-32.86	-53.17	0.00	2.00	22.31	170.22
1909.8	-33.18	-54.13	0.00	1.98	22.93	196.34

EDGE Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-29.52	-51.88	0.00	1.96	24.32	270.40
1880.0	-30.26	-52.99	0.00	2.00	24.73	297.17
1909.8	-31.39	-54.28	0.00	1.98	24.87	306.90
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-35.47	-52.13	0.00	1.96	18.62	72.78
1880.0	-36.78	-53.17	0.00	2.00	18.39	69.02
1909.8	-37.10	-54.13	0.00	1.98	19.01	79.62



A D T

WCDMA Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1852.4	-30.07	-51.88	0.00	1.96	23.77	238.23
1880.0	-30.40	-52.99	0.00	2.00	24.59	287.74
1907.6	-31.96	-54.28	0.00	1.98	24.30	269.15
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1852.4	-36.38	-52.13	0.00	1.96	17.71	59.02
1880.0	-36.26	-53.17	0.00	2.00	18.91	77.80
1907.6	-37.76	-54.13	0.00	1.98	18.35	68.39



ANT.1

GSM Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-32.79	-51.88	0.00	1.96	21.05	127.35
1880.0	-33.99	-52.99	0.00	2.00	21.00	125.89
1909.8	-35.27	-54.28	0.00	1.98	20.99	125.60
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-40.64	-52.13	0.00	1.96	13.45	22.13
1880.0	-41.02	-53.17	0.00	2.00	14.15	26.00
1909.8	-42.28	-54.13	0.00	1.98	13.83	24.15

EDGE Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-36.92	-51.88	0.00	1.96	16.92	49.20
1880.0	-37.91	-52.99	0.00	2.00	17.08	51.05
1909.8	-39.02	-54.28	0.00	1.98	17.24	52.97
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1850.2	-43.25	-52.13	0.00	1.96	10.84	12.13
1880.0	-43.92	-53.17	0.00	2.00	11.25	13.34
1909.8	-45.36	-54.13	0.00	1.98	10.75	11.89



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WCDMA Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1852.4	-37.54	-51.88	0.00	1.96	16.30	42.66
1880.0	-38.35	-52.99	0.00	2.00	16.64	46.13
1907.6	-40.36	-54.28	0.00	1.98	15.90	38.90
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	EIRP (dBm)	EIRP (mW)
1852.4	-44.27	-52.13	0.00	1.96	9.82	9.59
1880.0	-44.78	-53.17	0.00	2.00	10.39	10.94
1907.6	-46.45	-54.13	0.00	1.98	9.66	9.25

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

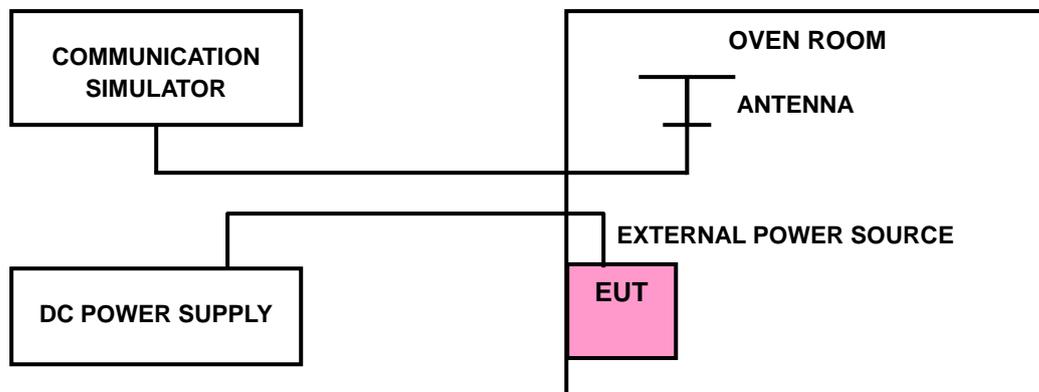
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 TEST SETUP



4.2.4 TEST RESULTS

ANT. 0

FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)			LIMIT (ppm)
	GPRS	EDGE	WCDMA	
3.8	-0.02	-0.02	-0.02	2.5
3.6	-0.02	-0.02	-0.02	2.5
4.35	-0.02	-0.02	-0.02	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.35Vdc.

FREQUENCY ERROR vs. TEMPERATURE

TEMP. (°C)	FREQUENCY ERROR (ppm)			LIMIT (ppm)
	GPRS	EDGE	WCDMA	
-30	-0.02	-0.02	-0.01	2.5
-20	-0.02	-0.02	-0.01	2.5
-10	-0.02	-0.02	-0.01	2.5
0	-0.02	-0.02	-0.01	2.5
10	-0.02	-0.02	-0.01	2.5
20	-0.03	-0.03	-0.01	2.5
30	-0.03	-0.03	-0.01	2.5
40	-0.03	-0.03	-0.01	2.5
50	-0.01	-0.02	-0.01	2.5
55	-0.01	-0.02	-0.01	2.5

ANT. 1
FREQUENCY ERROR VS. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)			LIMIT (ppm)
	GPRS	EDGE	WCDMA	
3.8	-0.02	-0.02	-0.02	2.5
3.6	-0.02	-0.02	-0.02	2.5
4.35	-0.02	-0.02	-0.02	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.6Vdc to 4.35Vdc.

FREQUENCY ERROR vs. TEMPERATURE

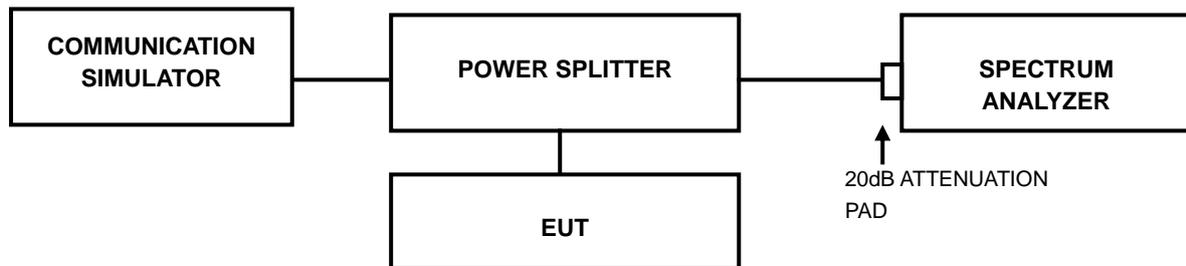
TEMP. (°C)	FREQUENCY ERROR (ppm)			LIMIT (ppm)
	GPRS	EDGE	WCDMA	
-30	-0.02	-0.02	-0.01	2.5
-20	-0.02	-0.02	-0.01	2.5
-10	-0.02	-0.02	-0.01	2.5
0	-0.02	-0.02	-0.01	2.5
10	-0.02	-0.02	-0.01	2.5
20	-0.03	-0.03	-0.01	2.5
30	-0.03	-0.03	-0.01	2.5
40	-0.03	-0.03	-0.01	2.5
50	-0.01	-0.02	-0.01	2.5
55	-0.01	-0.02	-0.01	2.5

4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.2 TEST SETUP



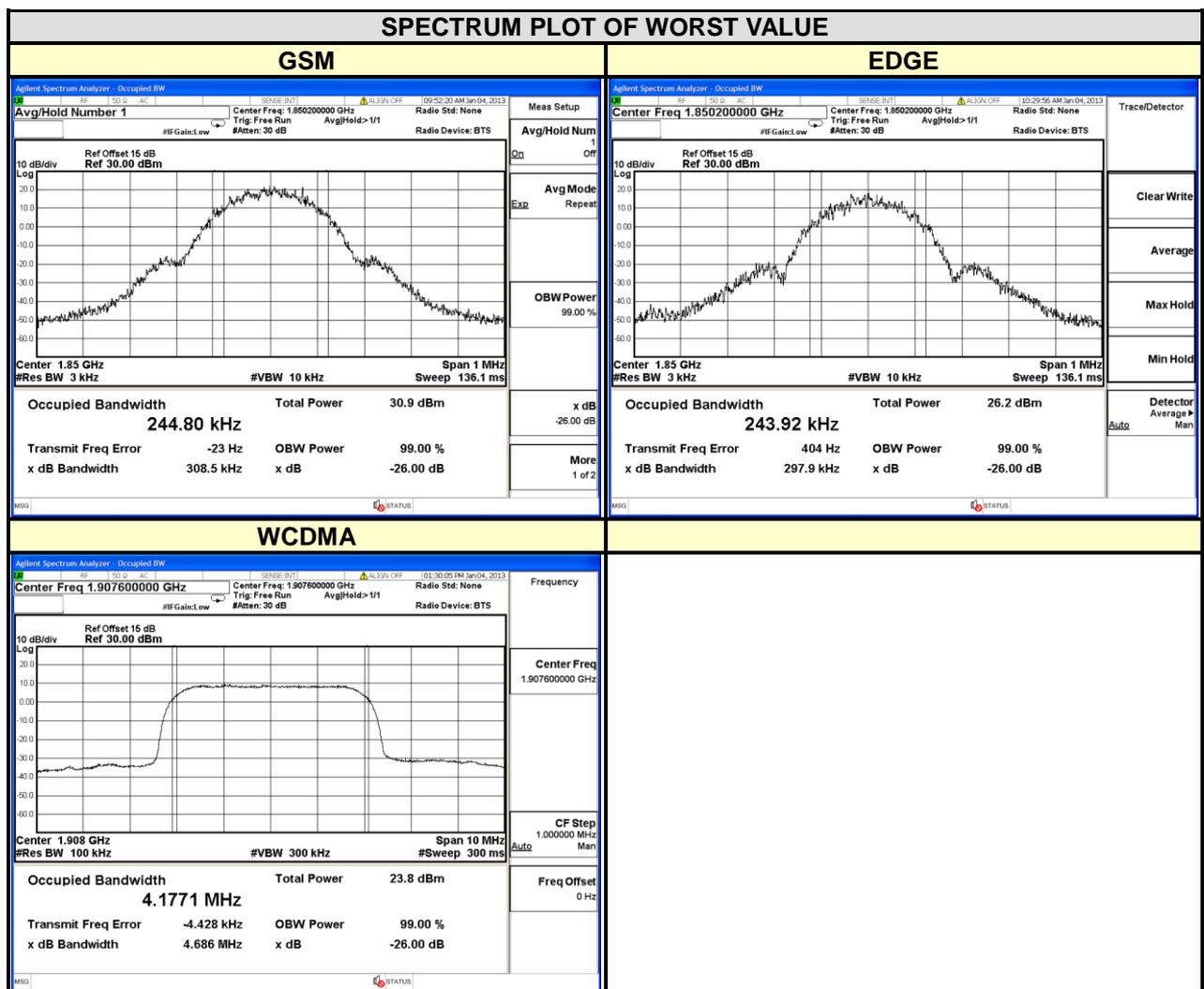


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4.3.3 TEST RESULTS

ANT. 0

CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
		GSM	EDGE			WCDMA
512	1850.2	244.80	243.92	9262	1852.4	4.1747
661	1880.0	243.23	241.83	9400	1880.0	4.1711
810	1909.8	242.39	241.89	9538	1907.6	4.1771

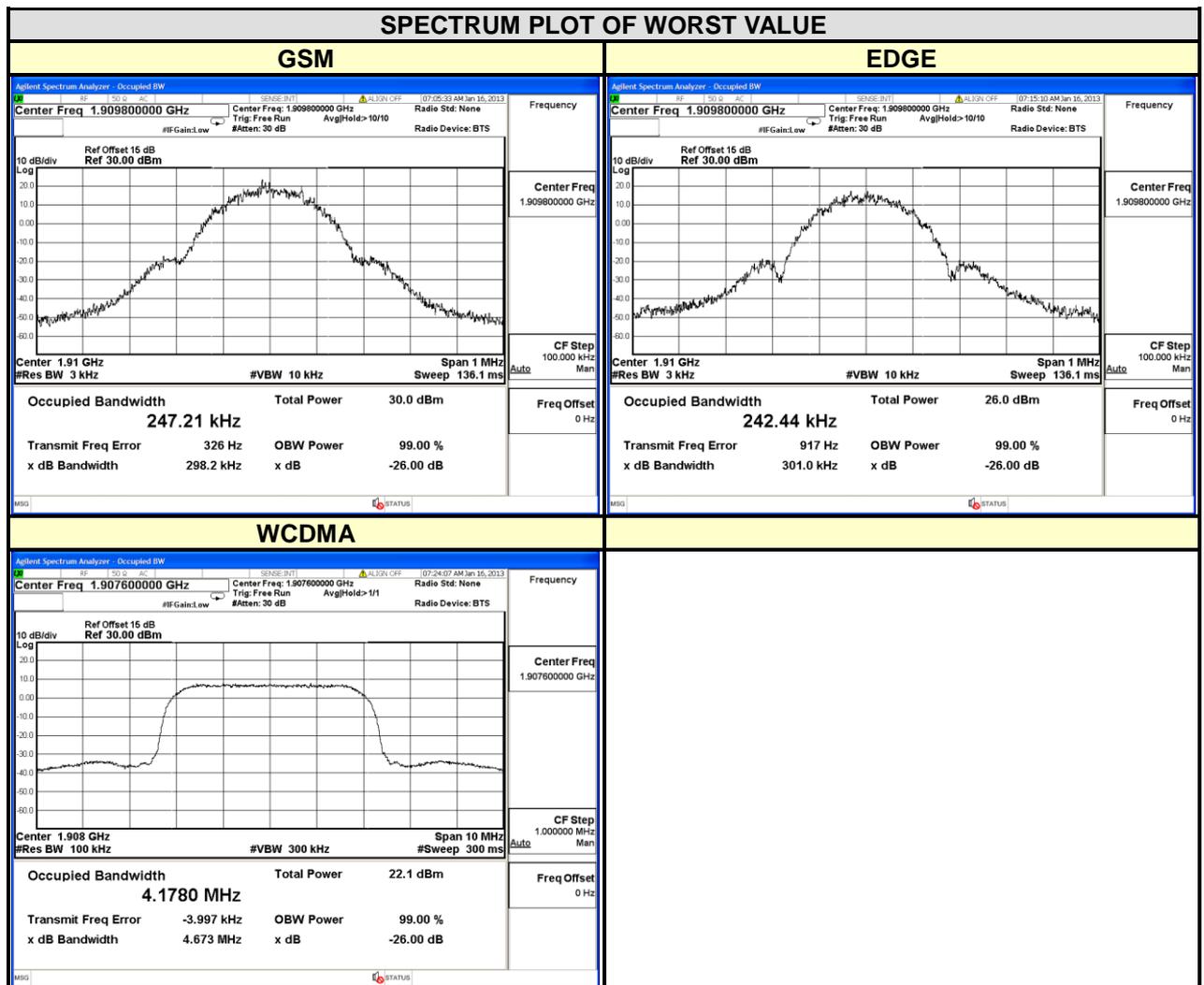




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CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
		GSM	EDGE			WCDMA
512	1850.2	246.39	239.13	9262	1852.4	4.1727
661	1880.0	246.96	239.90	9400	1880.0	4.1761
810	1909.8	247.21	242.44	9538	1907.6	4.1780

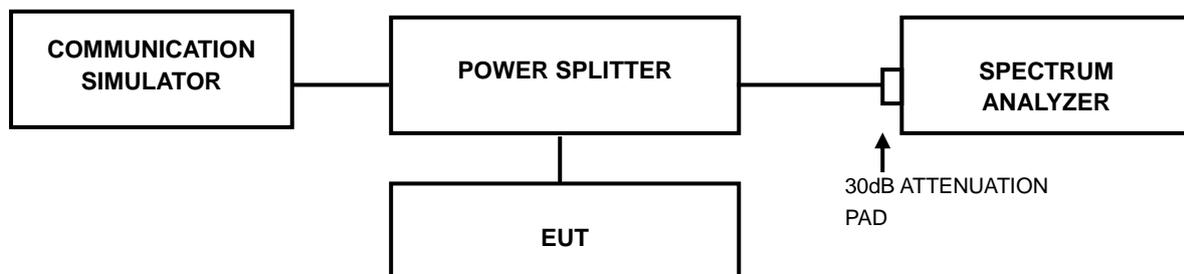


4.4 PEAK TO AVERAGE RATIO

4.4.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.4.2 TEST SETUP



4.4.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



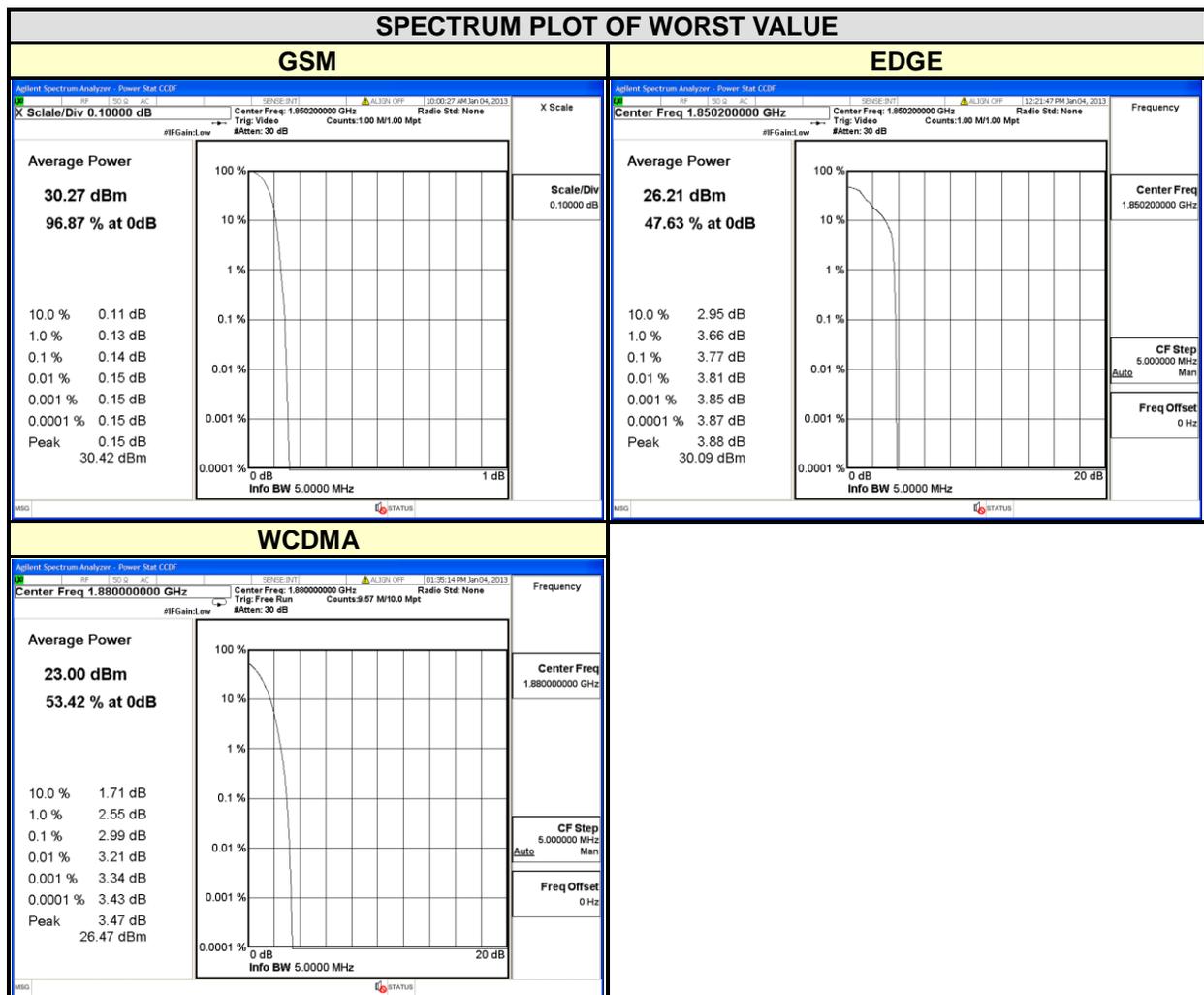
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4.4.4 TEST RESULTS

ANT. 0

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		GSM	EDGE
512	1850.2	0.14	3.77
661	1880.0	0.14	3.71
810	1909.8	0.14	3.60

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
		WCDMA
9262	1852.4	2.91
9400	1880.0	2.99
9538	1907.6	2.86





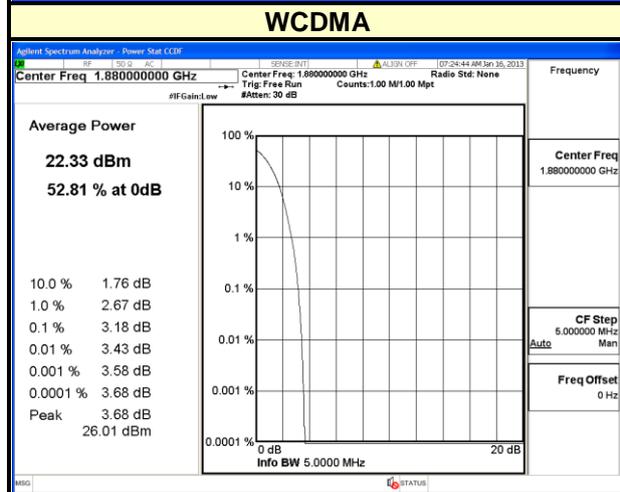
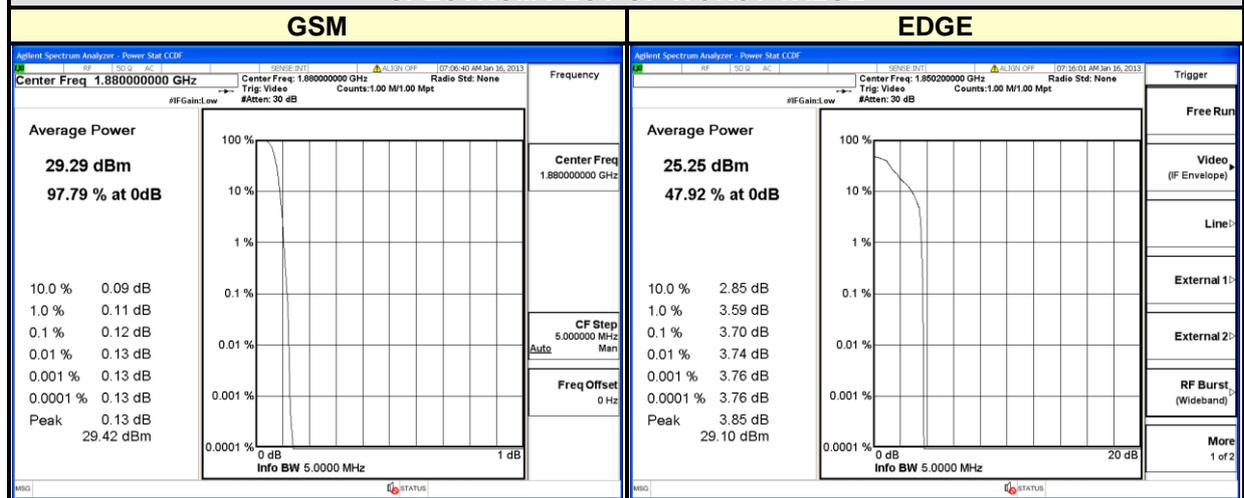
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ANT. 1

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		GSM	EDGE
512	1850.2	0.11	3.70
661	1880.0	0.12	3.60
810	1909.8	0.12	3.47

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
		WCDMA
9262	1852.4	3.03
9400	1880.0	3.18
9538	1907.6	3.06

SPECTRUM PLOT OF WORST VALUE

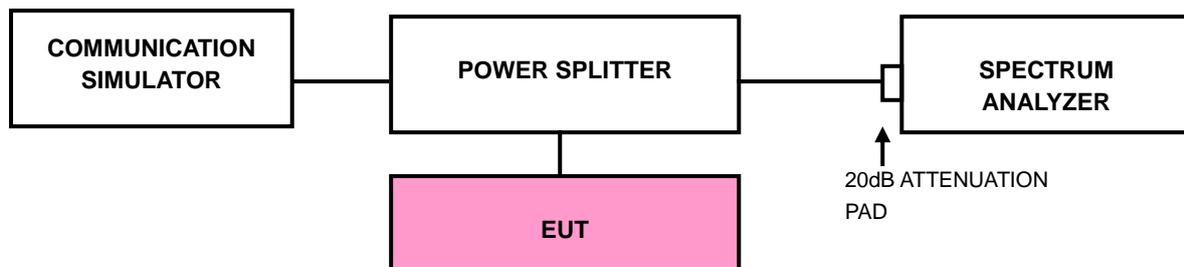


4.5 BAND EDGE MEASUREMENT

4.5.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.5.2 TEST SETUP



4.5.3 TEST PROCEDURES

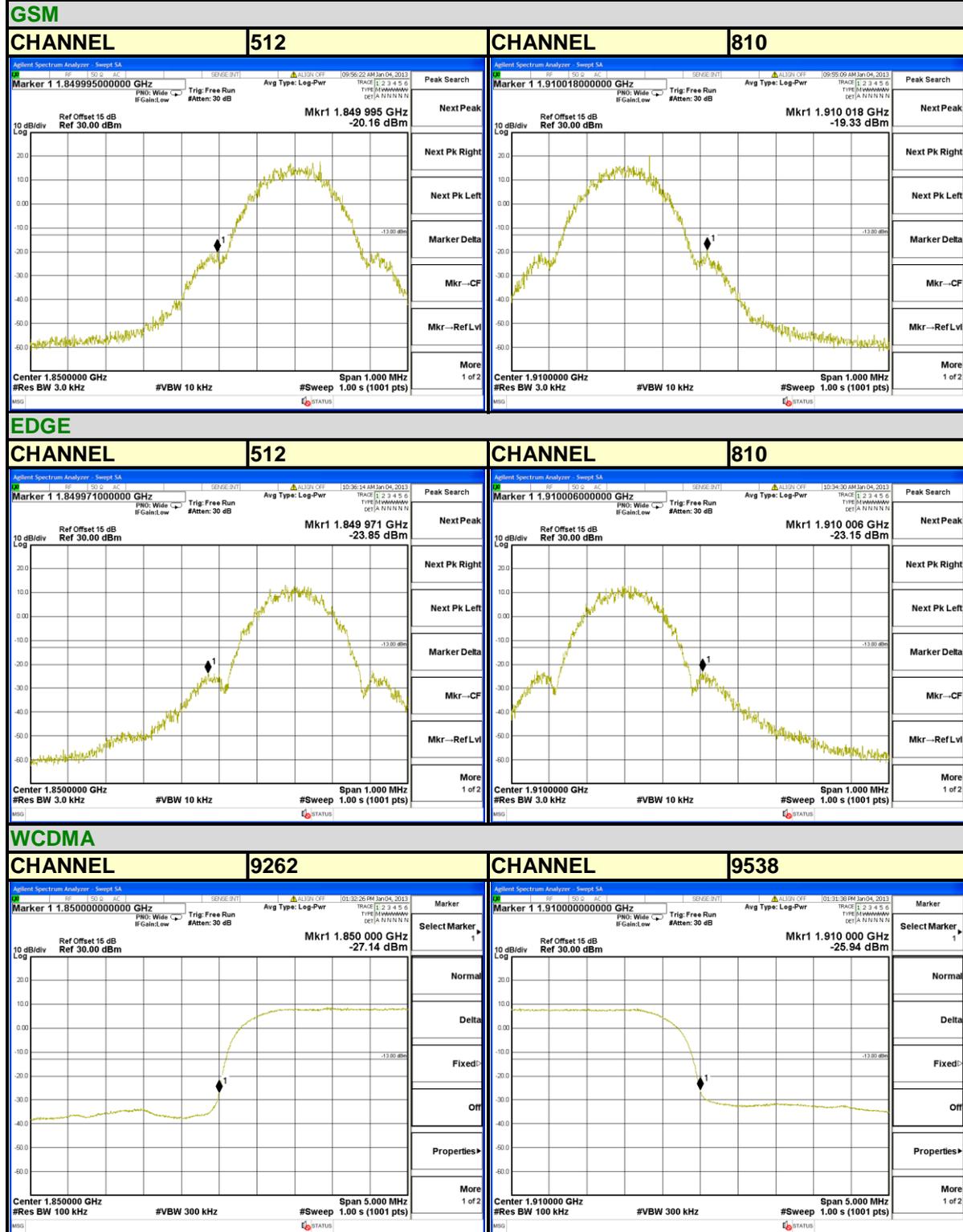
- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM/GPRS/ EDGE).
- The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
- Record the max trace plot into the test report.



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4.5.4 TEST RESULTS

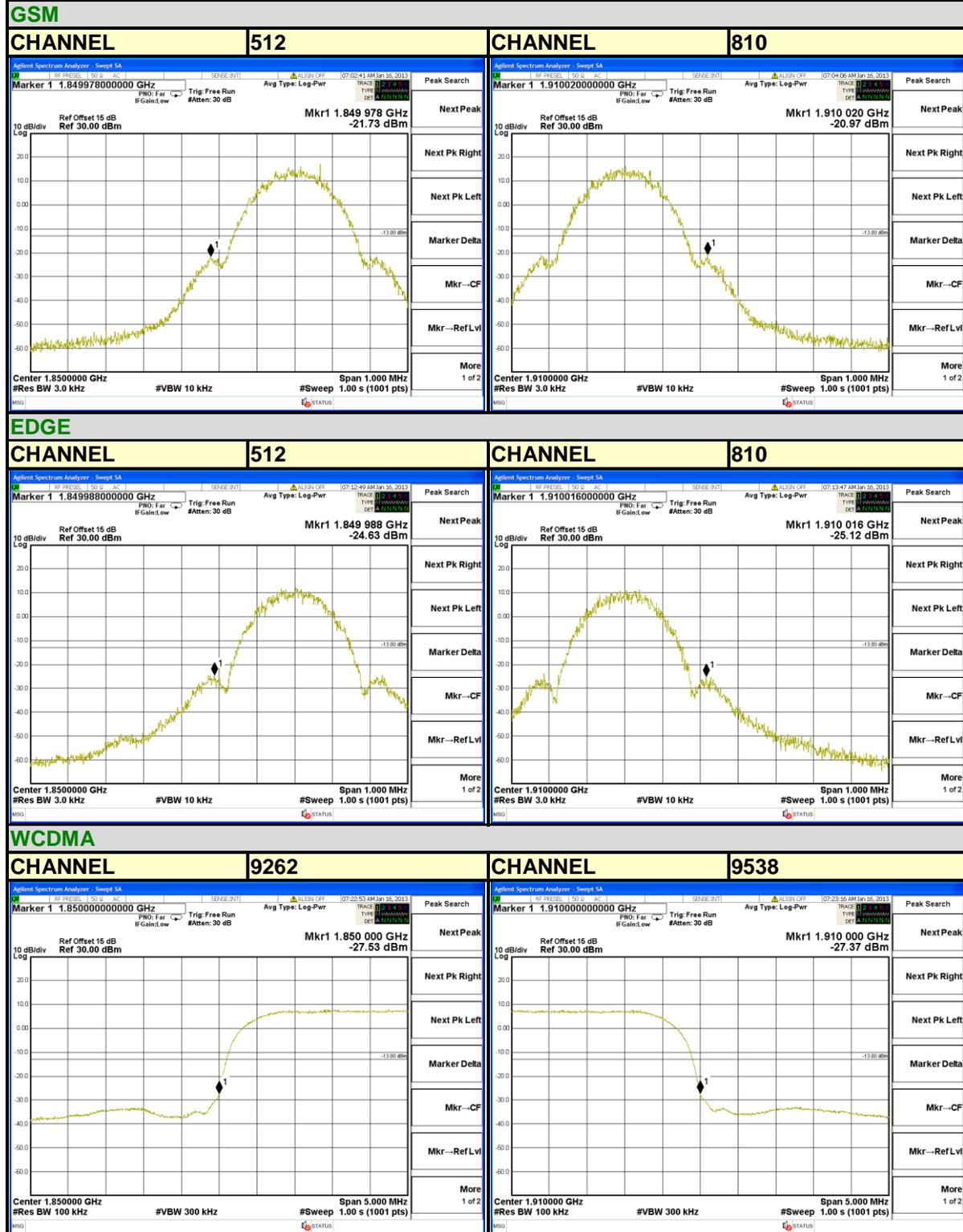
ANT. 0





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ANT. 1



4.6 CONDUCTED SPURIOUS EMISSIONS

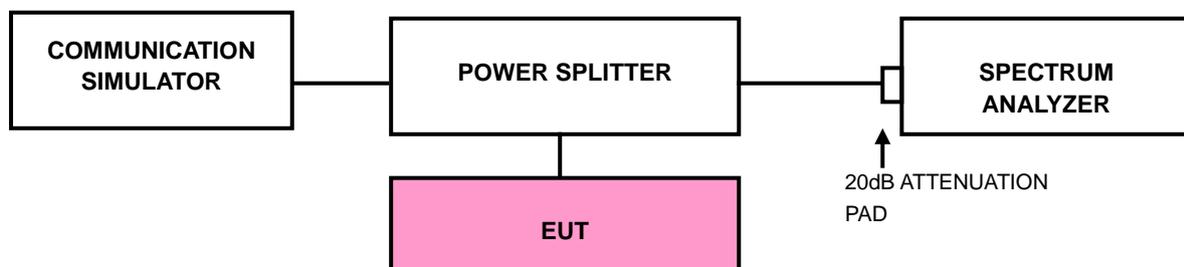
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.6.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30 MHz to 19.1GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.6.3 TEST SETUP

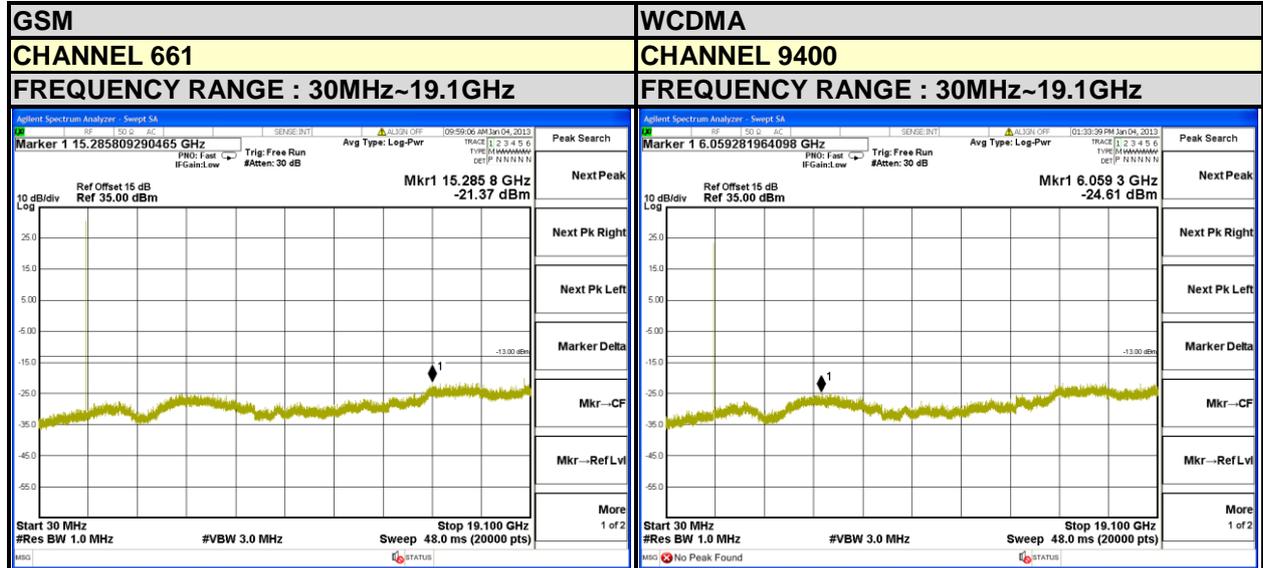




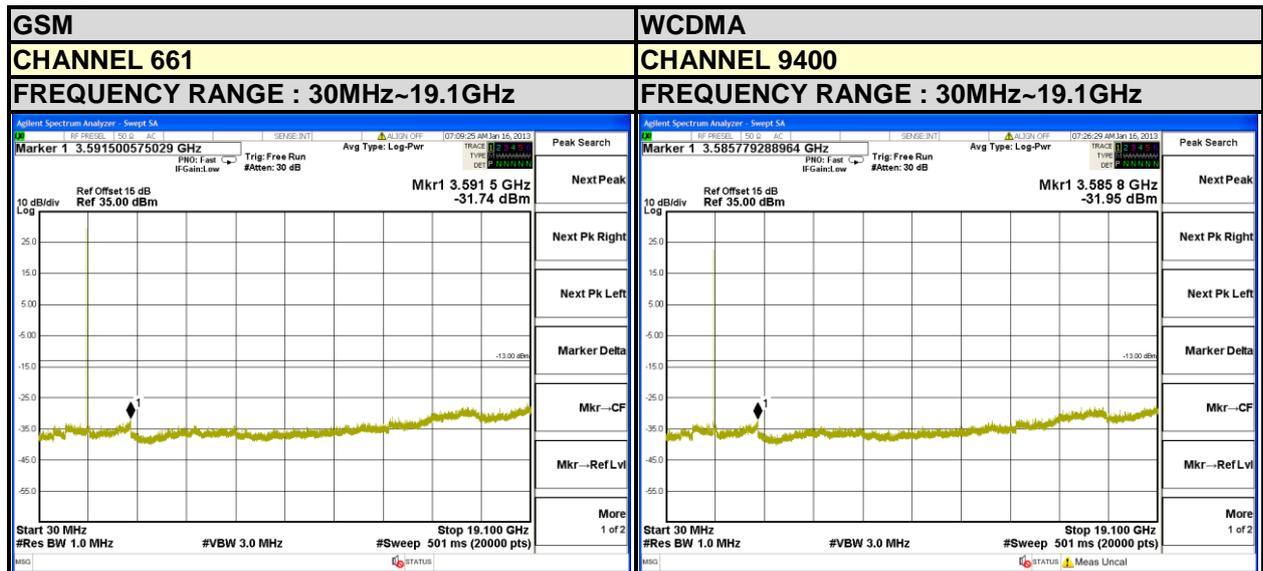
A D T

4.6.4 TEST RESULTS

ANT. 0



ANT. 1



4.7 RADIATED EMISSION MEASUREMENT

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.7.2 TEST PROCEDURES

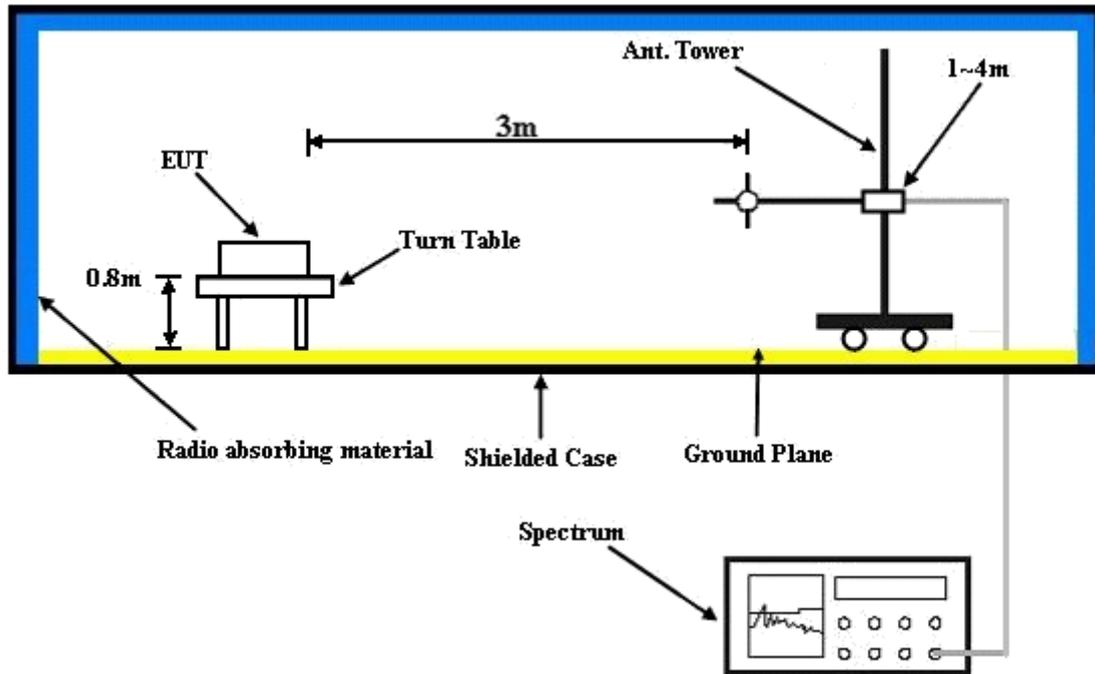
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.R.P power} - 2.15\text{dBi}$.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.7.3 DEVIATION FROM TEST STANDARD

No deviation

4.7.4 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).



A D T

4.7.5 TEST RESULTS

MODE A

ANT.0

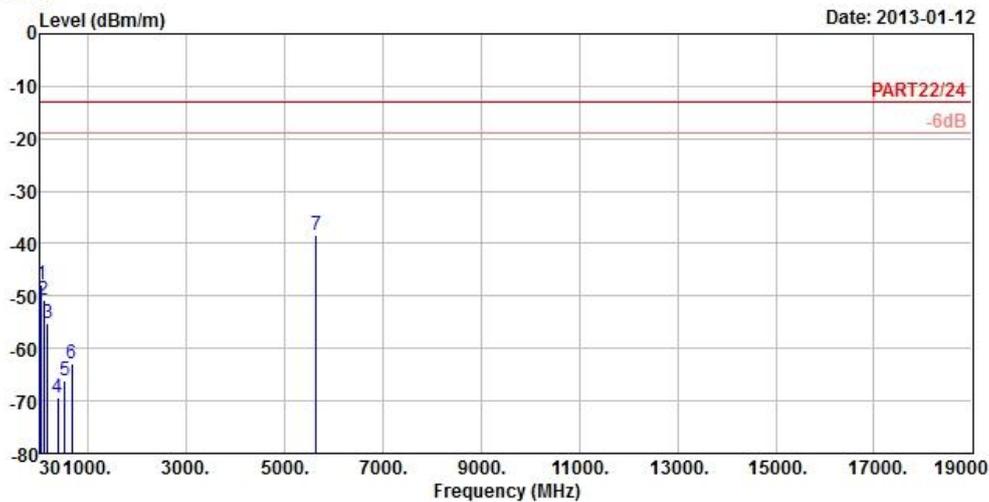
GSM:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: 121222C19
 Remark : PCS1900 Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y
 ANT : ANT 0

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	44.04	-47.93	-46.67	-13.00	-34.93	-1.26	Peak
2	105.06	-50.71	-40.21	-13.00	-37.71	-10.50	Peak
3	178.50	-55.26	-49.22	-13.00	-42.26	-6.04	Peak
4	389.60	-69.33	-63.62	-13.00	-56.33	-5.71	Peak
5	519.80	-66.05	-63.49	-13.00	-53.05	-2.56	Peak
6	675.90	-62.82	-63.83	-13.00	-49.82	1.01	Peak
7 pp	5640.00	-38.45	-38.66	-13.00	-25.45	0.21	Peak



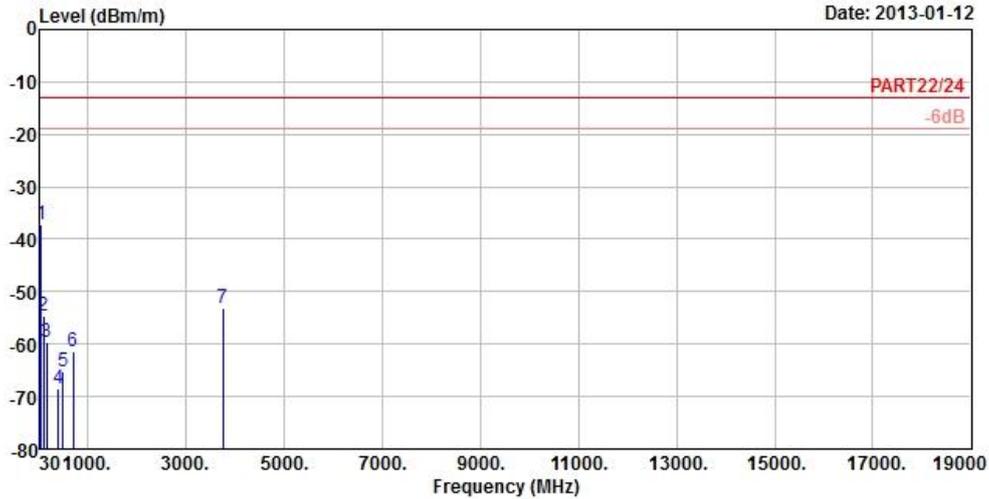
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: 121222C19
 Remark : PCS1900 Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y
 ANT : ANT 0

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp	44.04	-37.12	-35.86	-13.00	-24.12	-1.26 Peak
2		104.79	-54.73	-44.23	-13.00	-41.73	-10.50 Peak
3		157.98	-59.58	-53.10	-13.00	-46.58	-6.48 Peak
4		401.50	-68.50	-62.91	-13.00	-55.50	-5.59 Peak
5		494.60	-65.38	-62.14	-13.00	-52.38	-3.24 Peak
6		706.70	-61.49	-62.99	-13.00	-48.49	1.50 Peak
7		3760.00	-52.99	-46.26	-13.00	-39.99	-6.73 Peak



A D T

EDGE:

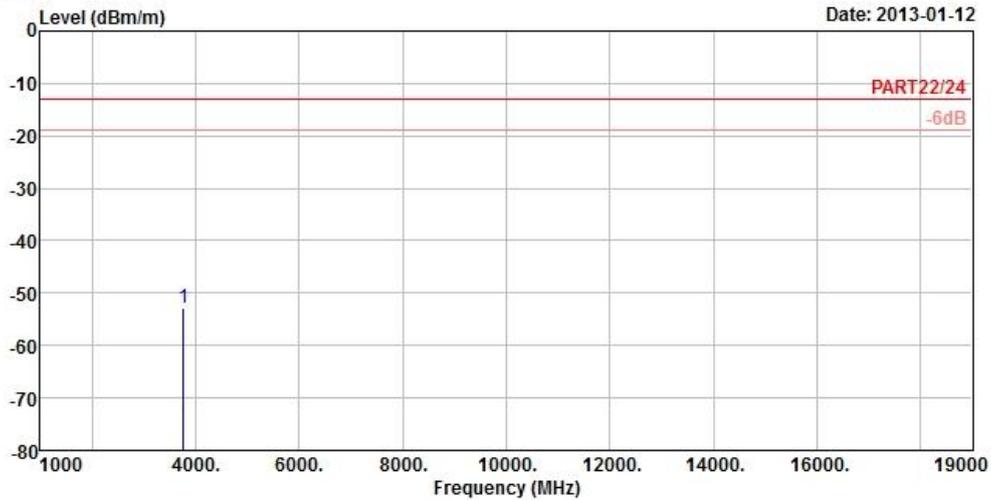


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2013-01-12



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: 121222C19
 Remark : EDGE Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y
 ANT : ANT 0

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-52.70	-45.97	-13.00	-39.70	-6.73	Peak



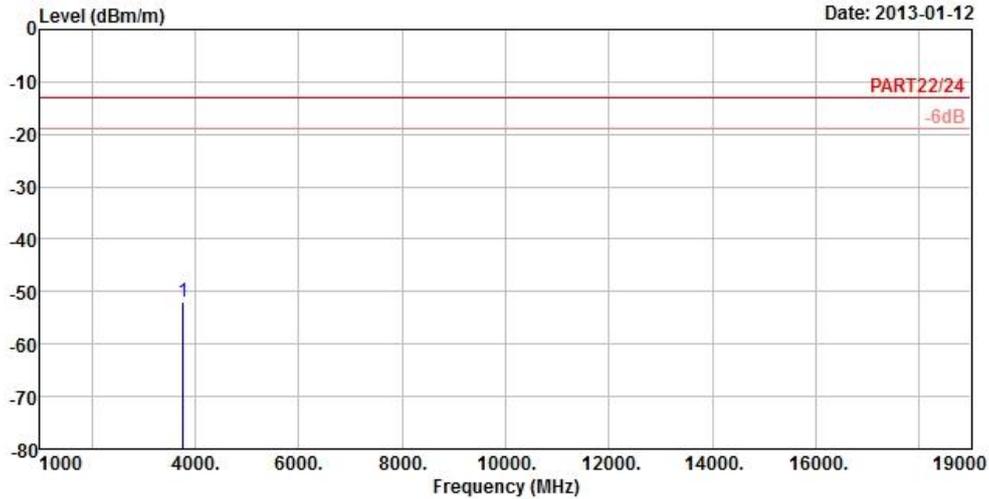
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: 121222C19
 Remark : EDGE Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y
 ANT : ANT 0

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-51.99	-45.26	-13.00	-38.99	-6.73	Peak



A D T

WCDMA:

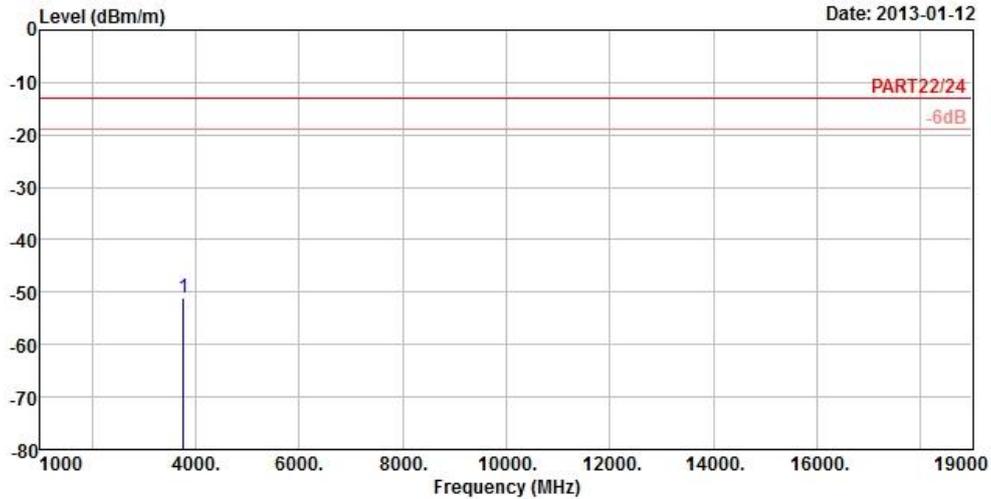


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2013-01-12



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: 121222C19
 Remark : Band II Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y
 ANT : ANT 0

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-51.21	-44.48	-13.00	-38.21	-6.73	Peak



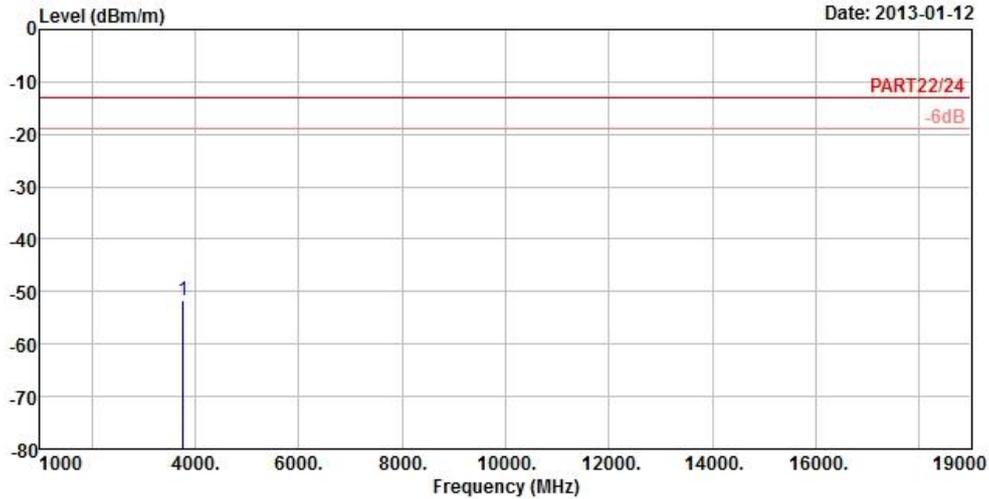
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: 121222C19
 Remark : Band II Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y
 ANT : ANT 0

	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor
MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp 3760.00	-51.68	-44.95	-13.00	-38.68	-6.73 Peak



A D T

ANT.1

GSM:

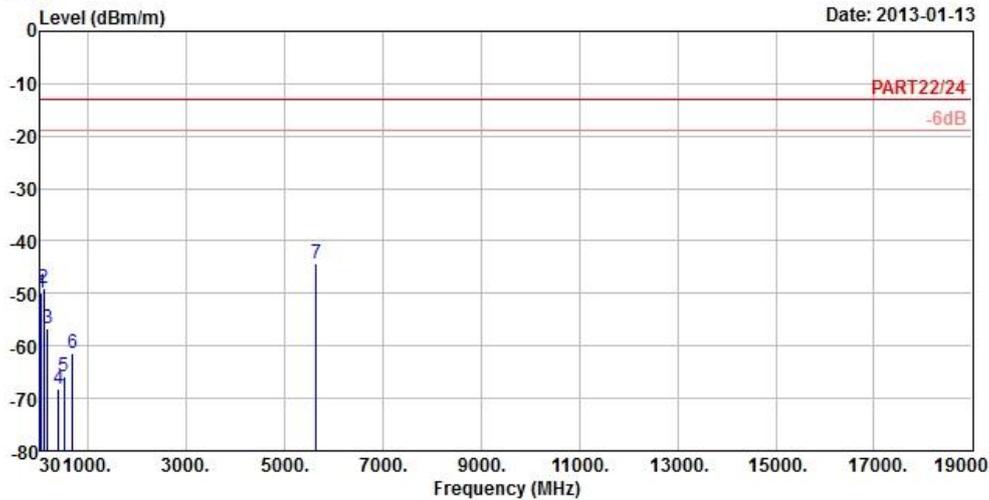


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15

Date: 2013-01-13



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: 121222C19
 Remark : PCS1900 Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 ANT : ANT 1

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	57.00	-49.94	-44.29	-13.00	-36.94	-5.65	Peak
2	105.33	-48.97	-38.44	-13.00	-35.97	-10.53	Peak
3	178.77	-56.71	-50.67	-13.00	-43.71	-6.04	Peak
4	399.40	-68.22	-62.58	-13.00	-55.22	-5.64	Peak
5	512.80	-65.74	-63.00	-13.00	-52.74	-2.74	Peak
6	678.70	-61.48	-62.55	-13.00	-48.48	1.07	Peak
7	5640.00	-44.34	-44.55	-13.00	-31.34	0.21	Peak



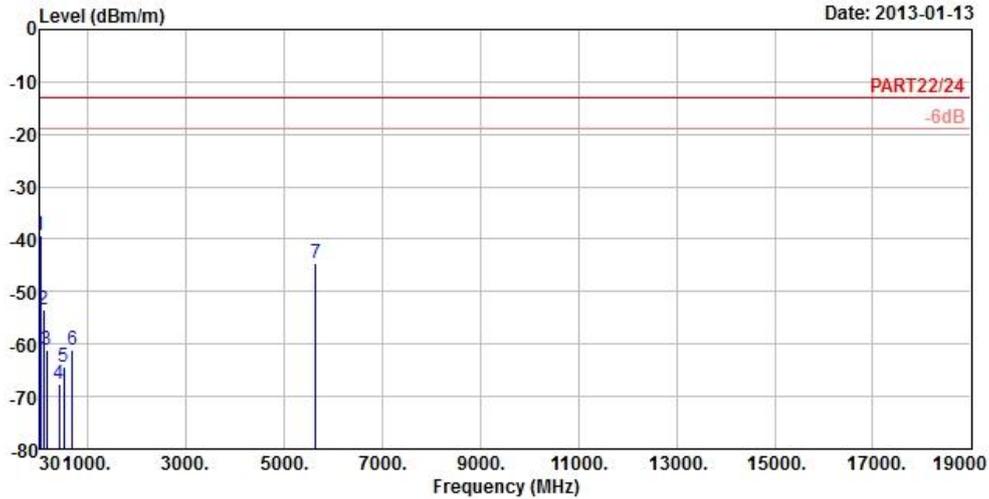
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: 121222C19
 Remark : PCS1900 Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 ANT : ANT 1

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	42.69	-39.30	-37.97	-13.00	-26.30	-1.33	Peak
2	105.87	-53.53	-43.00	-13.00	-40.53	-10.53	Peak
3	157.71	-61.19	-54.71	-13.00	-48.19	-6.48	Peak
4	417.60	-67.59	-62.42	-13.00	-54.59	-5.17	Peak
5	514.90	-64.39	-61.70	-13.00	-51.39	-2.69	Peak
6	680.80	-61.22	-62.32	-13.00	-48.22	1.10	Peak
7	5640.00	-44.48	-44.69	-13.00	-31.48	0.21	Peak



A D T

EDGE:

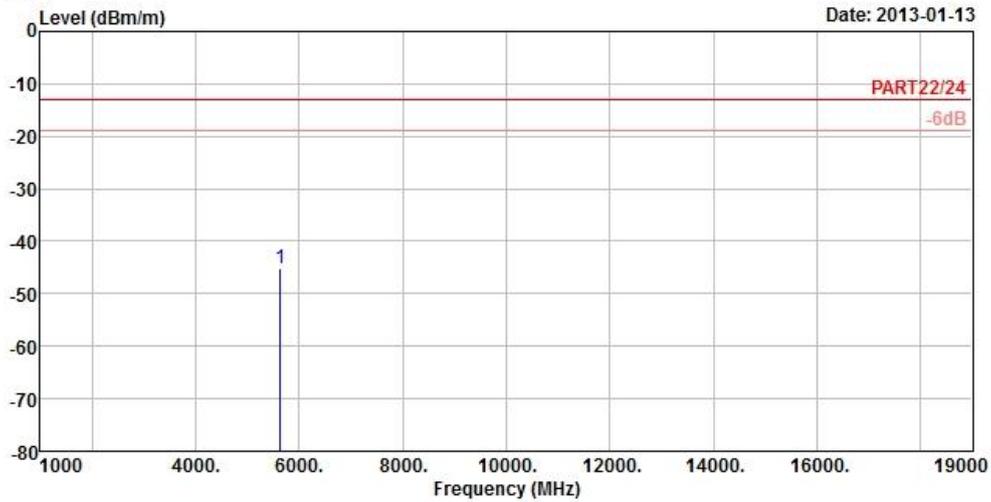


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2013-01-13



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: 121222C19
 Remark : EDGE Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 ANT : ANT 1

Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 5640.00	-45.10	-45.31	-13.00	-32.10	0.21	Peak



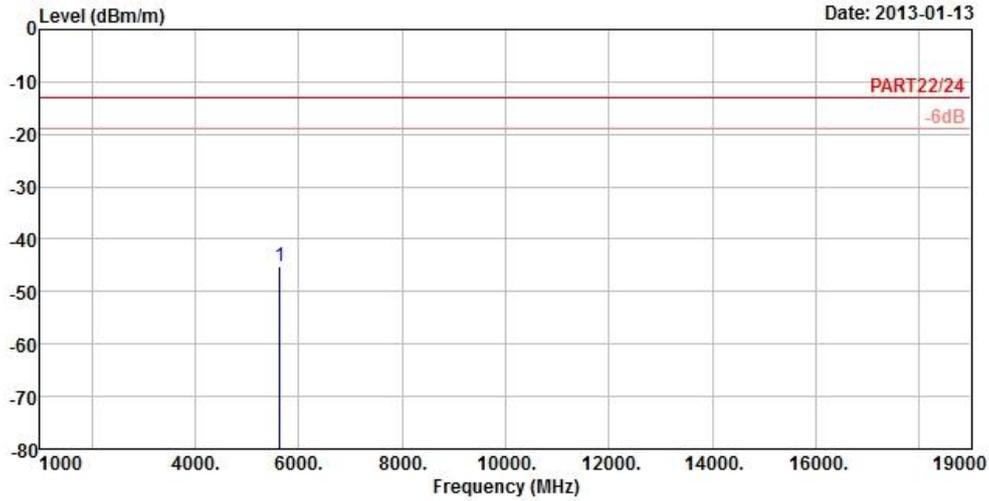
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: 121222C19
 Remark : EDGE Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 ANT : ANT 1

	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp 5640.00	-45.30	-45.51	-13.00	-32.30	0.21 Peak



A D T

WCDMA:

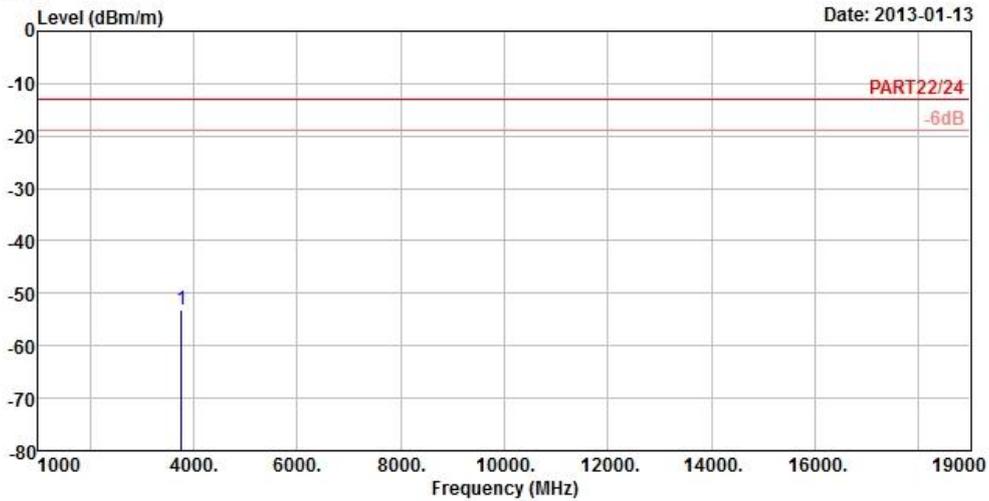


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 11

Date: 2013-01-13



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: 121222C19
 Remark : Band II Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 ANT : ANT 1

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-53.14	-46.41	-13.00	-40.14	-6.73	Peak



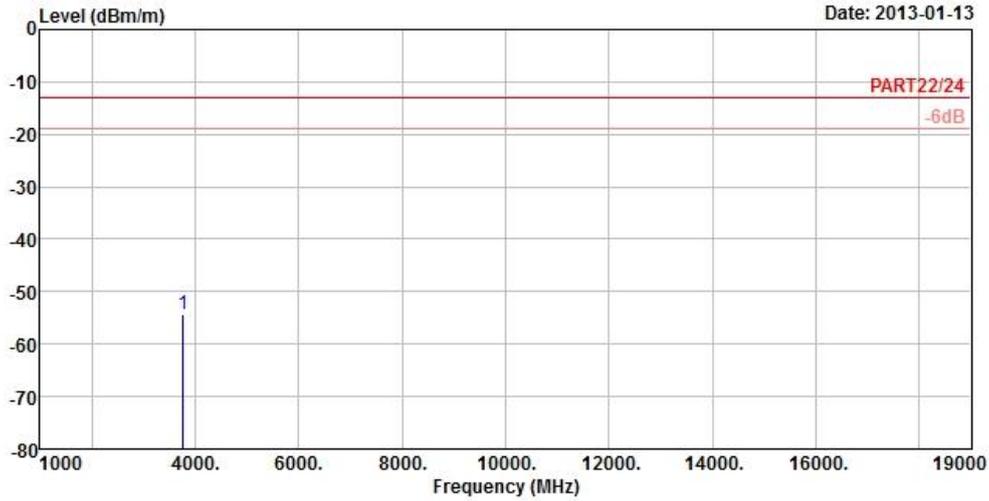
A D T



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: 121222C19
 Remark : Band II Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 ANT : ANT 1

	Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m
1 pp 3760.00	-54.18	-47.45	-13.00	-41.18	-6.73 Peak



A D T

MODE B

ANT.0

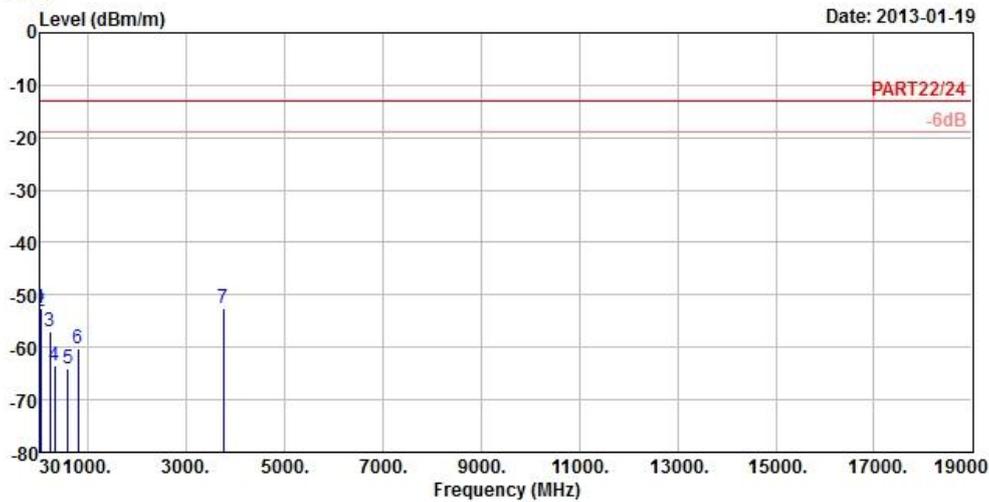
GSM:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 15



Site : 966 Chamber 5
 Condition : PART22/24 3m HORIZONTAL
 Brand/Model: 121222C19
 Remark : PCS1900 Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y
 ANT : ANT 0
 Sample : 2nd

	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1	33.78	-52.57	-50.73	-13.00	-39.57	-1.84	Peak
2	42.42	-53.10	-51.77	-13.00	-40.10	-1.33	Peak
3	224.94	-57.01	-50.20	-13.00	-44.01	-6.81	Peak
4	319.60	-63.34	-57.11	-13.00	-50.34	-6.23	Peak
5	586.30	-63.95	-63.23	-13.00	-50.95	-0.72	Peak
6	791.40	-60.13	-62.20	-13.00	-47.13	2.07	Peak
7 pp	3760.00	-52.51	-45.78	-13.00	-39.51	-6.73	Peak



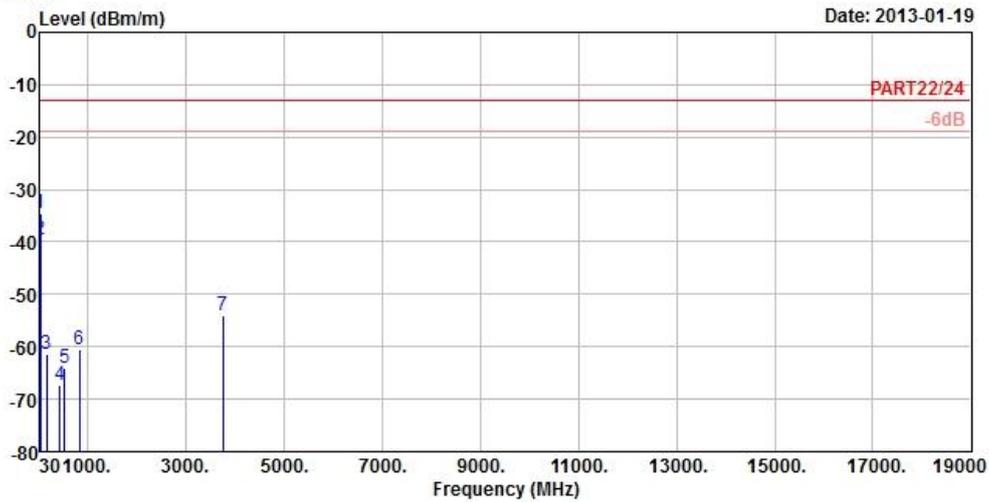
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 16



Site : 966 Chamber 5
 Condition : PART22/24 3m VERTICAL
 Brand/Model: 121222C19
 Remark : PCS1900 Link
 Tested by : Kay Wu
 Temperature : 25°C
 Humidity : 65%
 Plane : Y
 ANT : ANT 0
 Sample : 2nd

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	30.27	-34.52	-35.59	-13.00	-21.52	1.07	Peak
2	41.61	-39.50	-38.11	-13.00	-26.50	-1.39	Peak
3	162.84	-61.55	-54.98	-13.00	-48.55	-6.57	Peak
4	435.80	-67.35	-62.62	-13.00	-54.35	-4.73	Peak
5	531.00	-64.14	-61.87	-13.00	-51.14	-2.27	Peak
6	832.70	-60.45	-62.77	-13.00	-47.45	2.32	Peak
7	3760.00	-54.05	-47.32	-13.00	-41.05	-6.73	Peak

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.



A D T

7 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

---END---