

FCC TEST REPORT

(PART 24)

REPORT NO.: RF130913C16-1

MODEL NO.: VX675 3G

FCC ID: B32VX675WCDMA

RECEIVED: Sep. 13, 2013

TESTED: Sep. 26, 2013 ~ Oct. 02, 2013

ISSUED: Oct. 18, 2013

APPLICANT: VeriFone Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130913C16-1	Original release	Oct. 18, 2013



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1 CERTIFICATION

PRODUCT: Point of Sale Terminal

MODEL: VX675 3G

BRAND: VeriFone

APPLICANT: VeriFone Inc.

TESTED: Sep. 26, 2013 ~ Oct. 02, 2013

TEST SAMPLE: Identical Prototype

STANDARDS: FCC Part 24, Subpart E

The above equipment (model: VX675 3G) 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 : Evonne Liu , **DATE** : Oct. 18, 2013
Evonne Liu / Specialist

APPROVED BY : Sam chen , **DATE** : Oct. 18, 2013
Sam Chen / Assistant Manager

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 -22.11dB at 44.31MHz.

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.



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2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Nov. 16, 2012	Nov. 15, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2012	Dec. 16, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Mar. 25, 2013	Mar. 24, 2014
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 BV ADT	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

- 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 10.
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 690701.
5. The IC Site Registration No. is IC 7450F-10.



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3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Point of Sale Terminal	
MODEL NO.	VX675 3G	
POWER SUPPLY	5.0Vdc (adapter) 3.6Vdc (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	1446.11mW
	EDGE	659.78mW
	WCDMA	300.19mW
EMISSION DESIGNATOR	GSM	249KGXW
	EDGE	247KG7W
	WCDMA	4M16F9W
MULTI-SLOTS CLASS	12	
WCDMA RELEASE VERSION	6	
ANTENNA TYPE	Fixed Internal Antenna	
I/O PORTS	Refer to users' manual	
DATA CABLE	Refer to NOTE as below	
ACCESSORY DEVICES	Refer to NOTE as below	

NOTE:

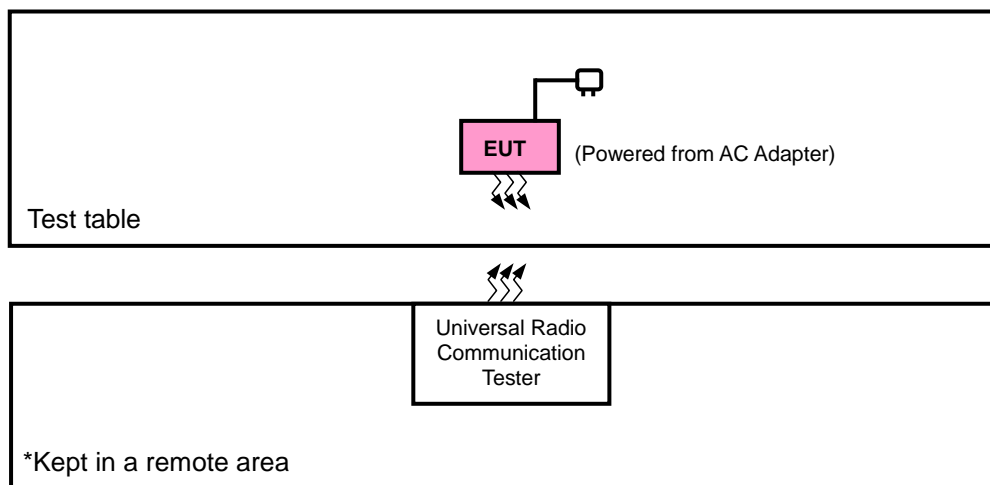
1. The EUT contains following accessory devices.

ITEM	BRAND	MODEL	DESCRIPTION
Adapter 1	Verifone	MU06-E050100-A1	I/P: 100-240Vac, 50/60Hz, 0.2A O/P: 5Vdc, 1A
Adapter 2	Verifone	SC1402	I/P: 100-240Vac, 50-60Hz, 150mA O/P: 5Vdc, 1A
Battery	VeriFone	BPK265-001	Rating: 3.6Vdc, 2200mAh

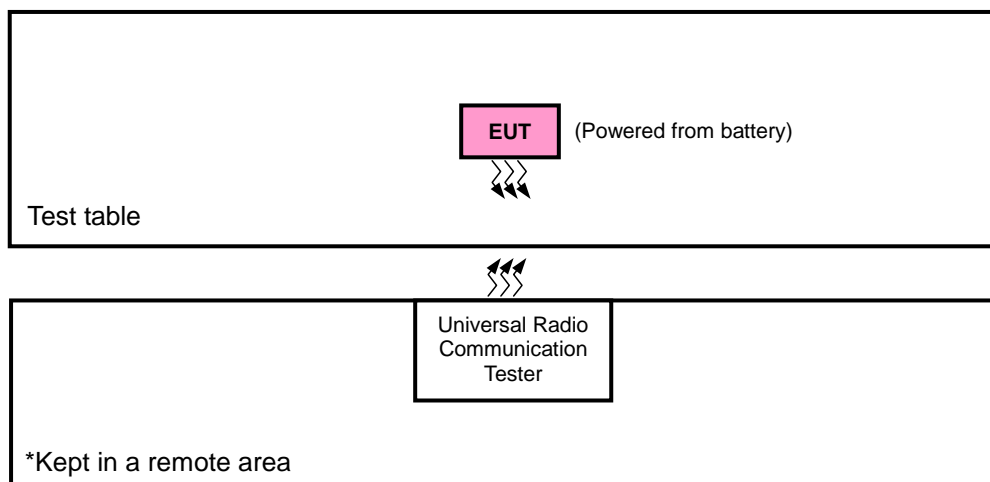
2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR E.R.P. 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 X-plane for ERP and Y-plane for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

GSM MODE

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

WCDMA MODE

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

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	26deg. C, 58%RH	3.6Vdc	Howard Kao
FREQUENCY STABILITY	26deg. C, 58%RH	3.6Vdc	Howard Kao
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.6Vdc	Howard Kao
BAND EDGE	26deg. C, 58%RH	3.6Vdc	Howard Kao
CONDCUDED EMISSION	26deg. C, 58%RH	3.6Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Anson Lin

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:

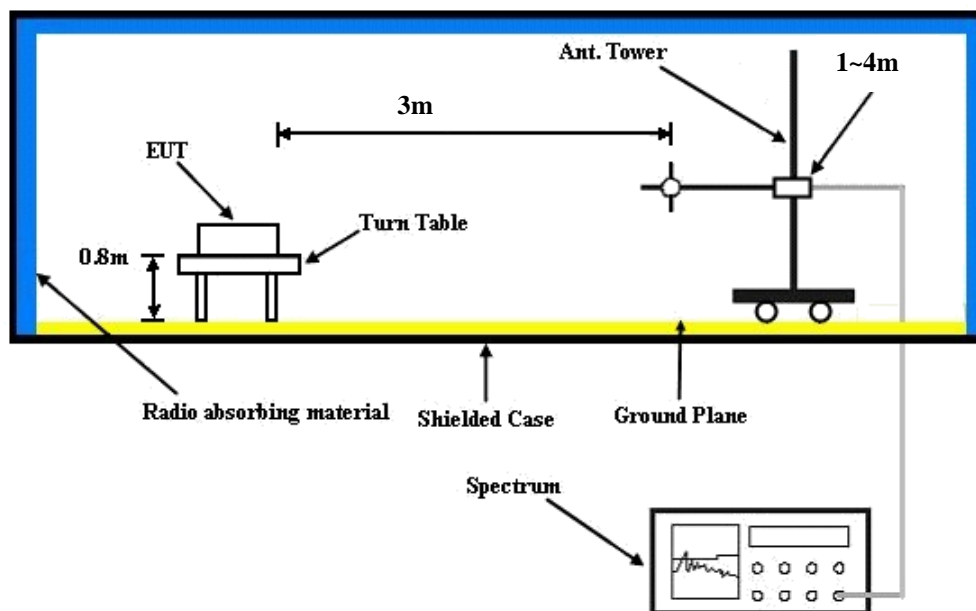
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, and 5MHz for WCDMA.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 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.
- c. 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 b. Record the power level of S.G
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

CONDUCTED POWER MEASUREMENT:

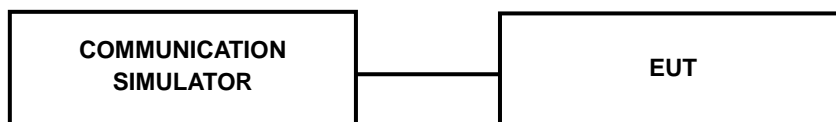
The EUT was set up for the maximum power with GSM, GPRS, EDGE, and WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:



4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GSM1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GPRS 8 (GMSK, 1 slot)	30.17	29.65	29.35
GPRS 10 (GMSK, 2 slot)	27.65	27.14	26.84
GPRS 11 (GMSK, 3 slot)	25.68	25.17	24.87
GPRS 12 (GMSK, 4 slot)	24.57	24.06	23.76
EDGE 8 (GMSK, 1 Uplink)	30.16	29.66	29.36
EDGE 10 (GMSK, 2 Uplink)	27.55	27.04	26.74
EDGE 11 (GMSK, 3 Uplink)	25.57	25.06	24.76
EDGE 12 (GMSK, 4 Uplink)	24.59	24.08	23.78
EDGE 8 (8PSK, 1 Uplink)	26.71	26.20	25.90
EDGE 10 (8PSK, 2 Uplink)	23.68	23.17	22.87
EDGE 11 (8PSK, 3 Uplink)	21.85	21.34	21.04
EDGE 12 (8PSK, 4 Uplink)	20.58	20.07	19.77

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	23.50	22.93	23.18
HSDPA Subtest-1	23.39	22.82	23.07
HSDPA Subtest-2	21.65	21.08	21.33
HSDPA Subtest-3	20.46	19.89	20.14
HSDPA Subtest-4	20.29	19.72	19.97
HSUPA Subtest-1	22.58	22.01	22.26
HSUPA Subtest-2	21.88	21.31	21.56
HSUPA Subtest-3	21.96	21.39	21.64
HSUPA Subtest-4	22.38	21.81	22.06
HSUPA Subtest-5	23.49	22.95	23.20

EIRP POWER (dBm)

GSM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	512	1850.2	-5.46	36.57	31.11	1291.81	H
	661	1880.0	-5.64	37.22	31.58	1440.12	H
	810	1909.8	-5.58	37.18	31.60	1446.11	H
	512	1850.2	-15.12	37.65	22.53	179.10	V
	661	1880.0	-15.00	37.58	22.58	181.26	V
	810	1909.8	-15.68	37.48	21.80	151.36	V

EDGE

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	512	1850.2	-9.60	36.57	26.97	497.97	H
	661	1880.0	-9.03	37.22	28.19	659.78	H
	810	1909.8	-9.76	37.18	27.42	552.33	H
	512	1850.2	-17.27	37.65	20.38	109.17	V
	661	1880.0	-17.92	37.58	19.66	92.53	V
	810	1909.8	-18.00	37.48	19.48	88.72	V

WCDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
X	9262	1852.4	-12.37	36.57	24.20	263.15	H
	9400	1880.0	-12.45	37.22	24.77	300.19	H
	9538	1907.6	-12.86	37.18	24.32	270.52	H
	9262	1852.4	-20.69	37.65	16.96	49.67	V
	9400	1880.0	-20.68	37.58	16.90	49.01	V
	9538	1907.6	-20.52	37.48	16.96	49.66	V

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

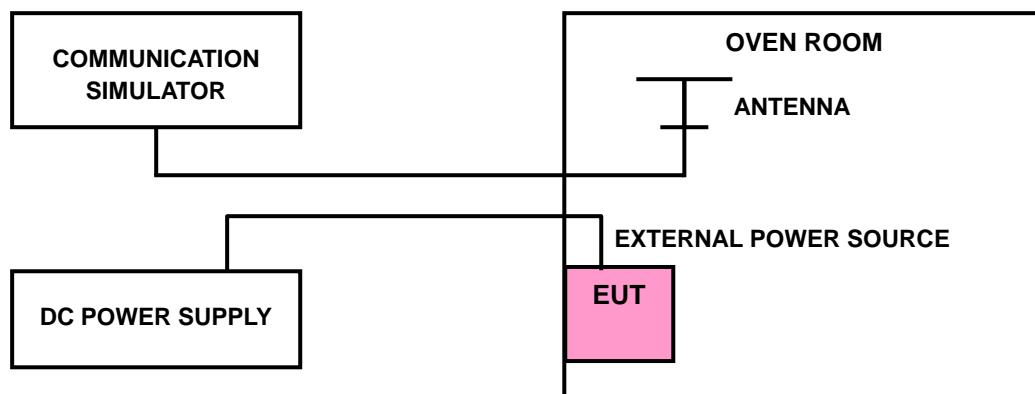
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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

FREQUENCY ERROR vs. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)			LIMIT (ppm)
	GSM	EDGE	WCDMA	
3.6	-0.01	0.02	0.02	2.5
3.4	-0.01	0.01	0.02	2.5
4.14	-0.01	0.01	0.01	2.5

NOTE: The applicant defined the normal working voltage is from 3.4Vdc to 4.14Vdc.

FREQUENCY ERROR vs. TEMPERATURE

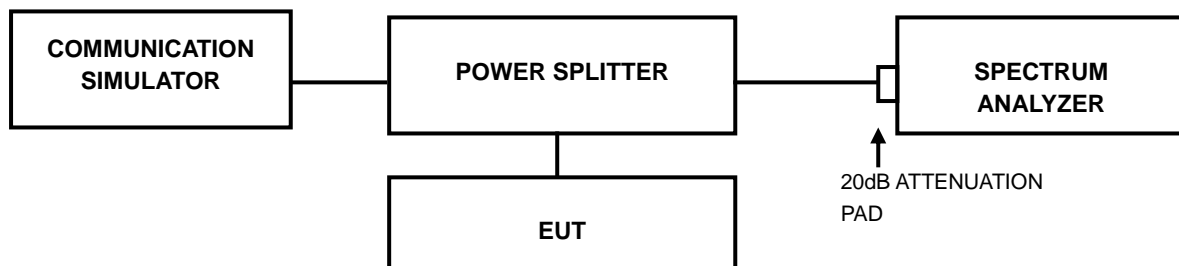
TEMP. (°C)	FREQUENCY ERROR (ppm)			LIMIT (ppm)
	GSM	EDGE	WCDMA	
-30	0.00	0.02	0.01	2.5
-20	0.01	0.02	0.01	2.5
-10	0.00	0.02	0.02	2.5
0	-0.01	0.02	0.02	2.5
10	-0.01	0.02	0.01	2.5
20	-0.01	0.02	0.01	2.5
30	-0.01	0.02	0.01	2.5
40	-0.01	0.02	0.01	2.5
50	-0.01	0.02	0.01	2.5
55	-0.01	0.02	0.02	2.5

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

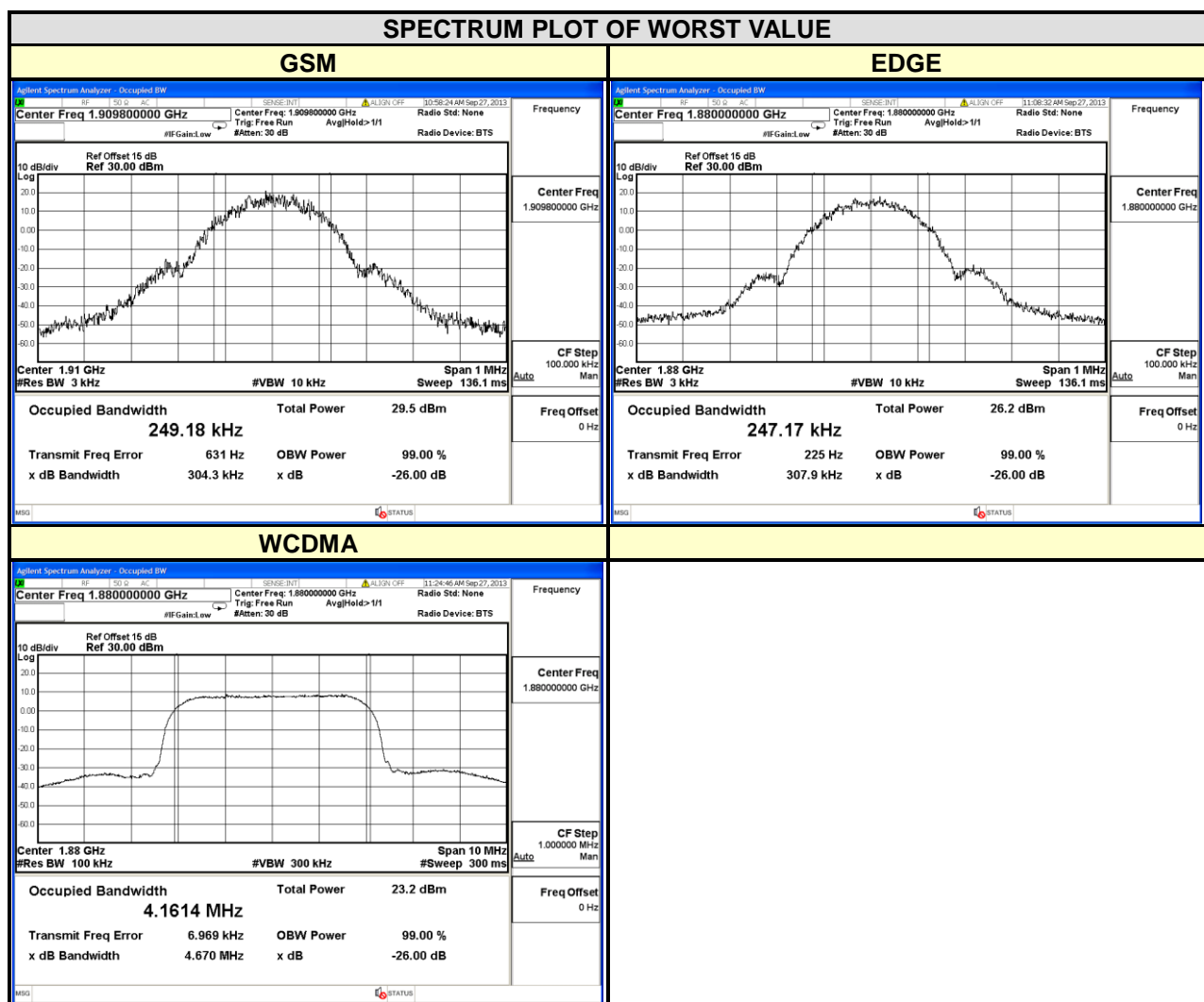




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4.3.3 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
		GSM	EDGE			WCDMA
512	1850.2	246.58	243.97	9262	1852.4	4.1545
661	1880.0	245.90	247.17	9400	1880.0	4.1614
810	1909.8	249.18	245.55	9538	1907.6	4.1532

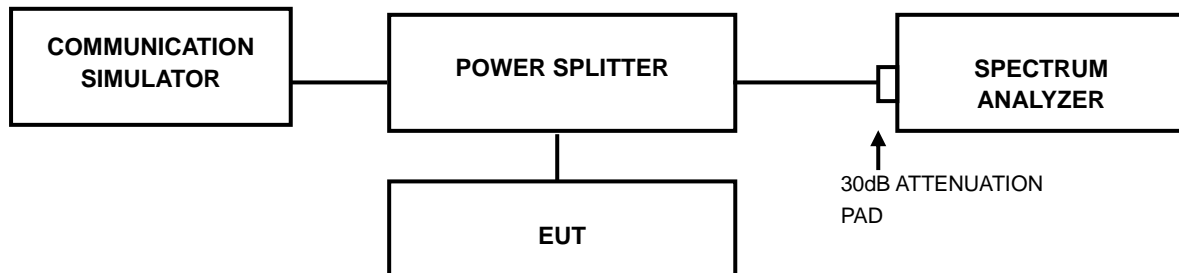


4.4 PEAK TO AVERAGE RATIO

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

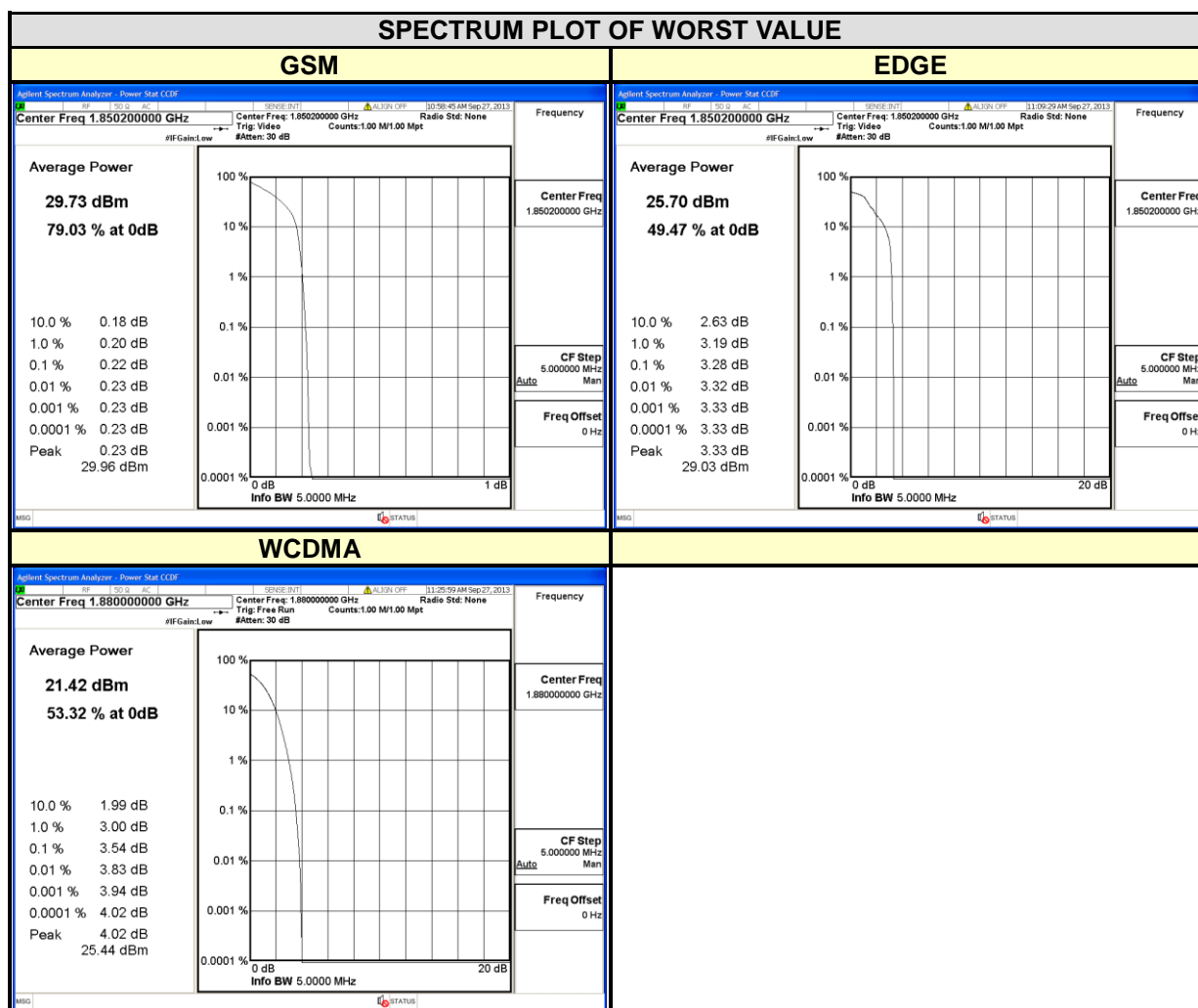


4.4.3 TEST PROCEDURES

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%.

4.4.4 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
		GSM	EDGE			
512	1850.2	0.22	3.28	9262	1852.4	3.12
661	1880.0	0.21	3.22	9400	1880.0	3.54
810	1909.8	0.22	3.20	9538	1907.6	3.13

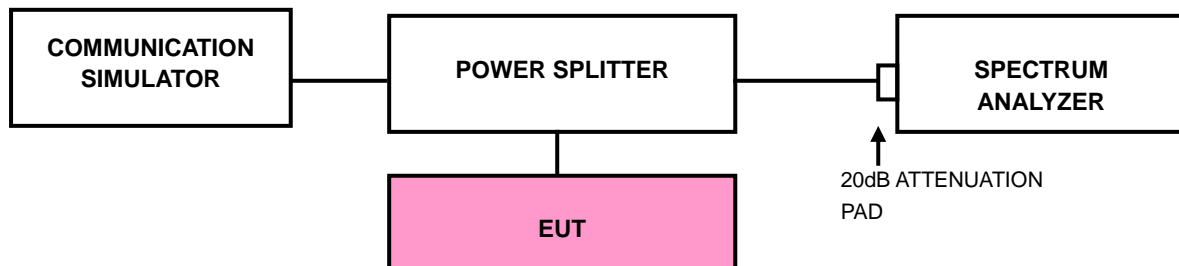


4.5 BAND EDGE MEASUREMENT

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.

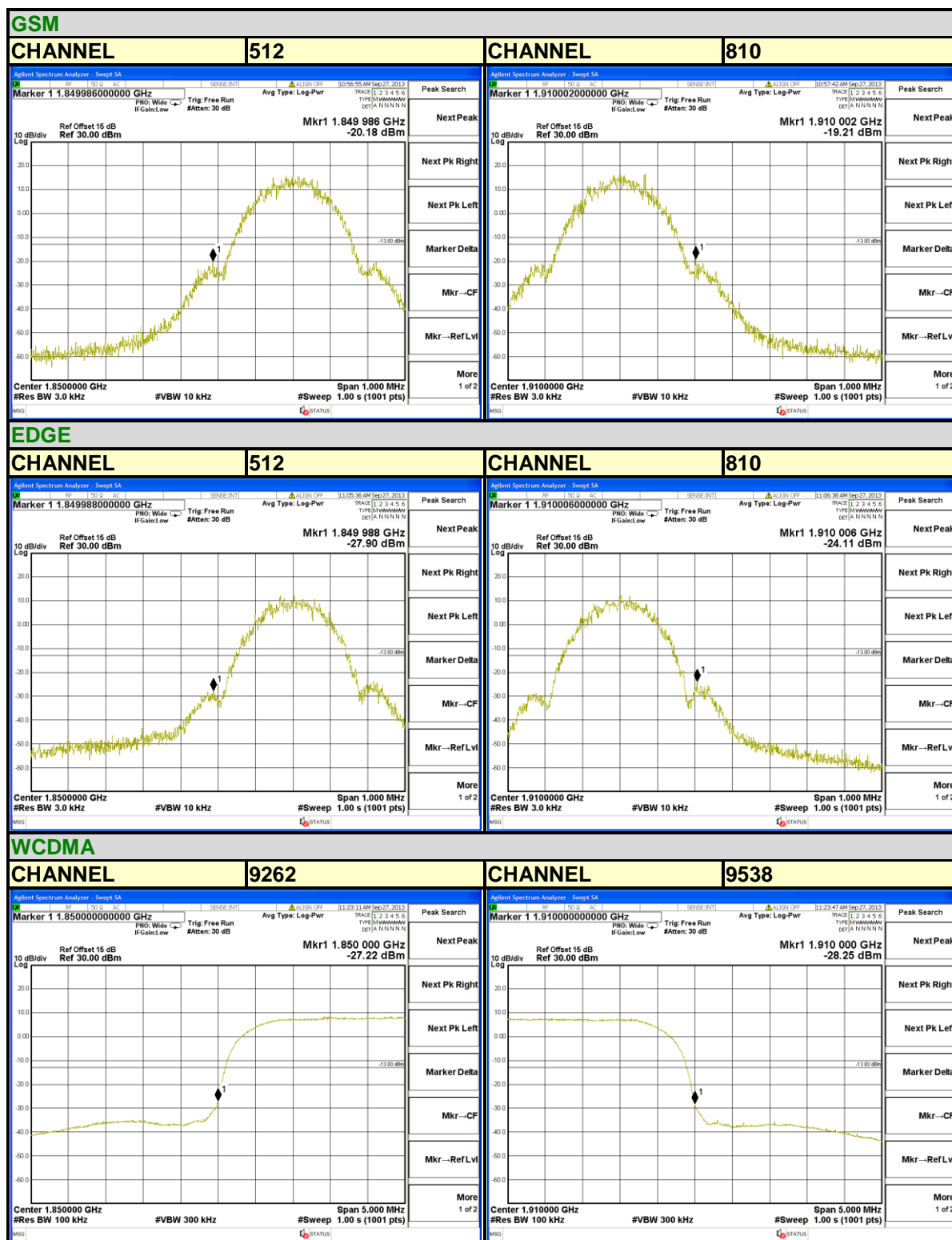
4.5.2 TEST SETUP



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/LTE).
- Record the max trace plot into the test report.

4.5.4 TEST RESULTS



4.6 CONDUCTED SPURIOUS EMISSIONS

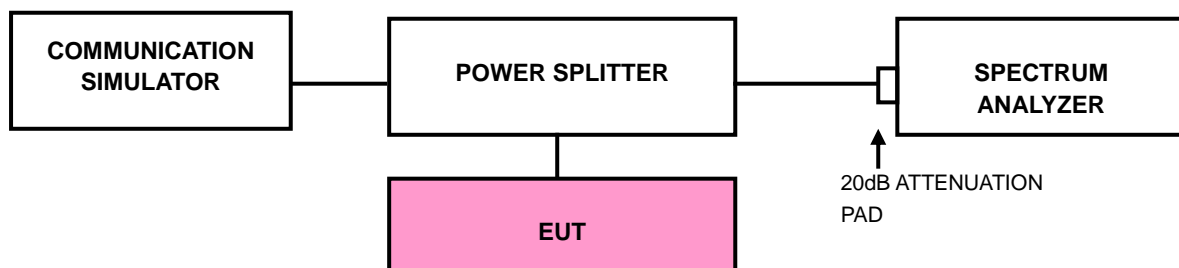
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- 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.

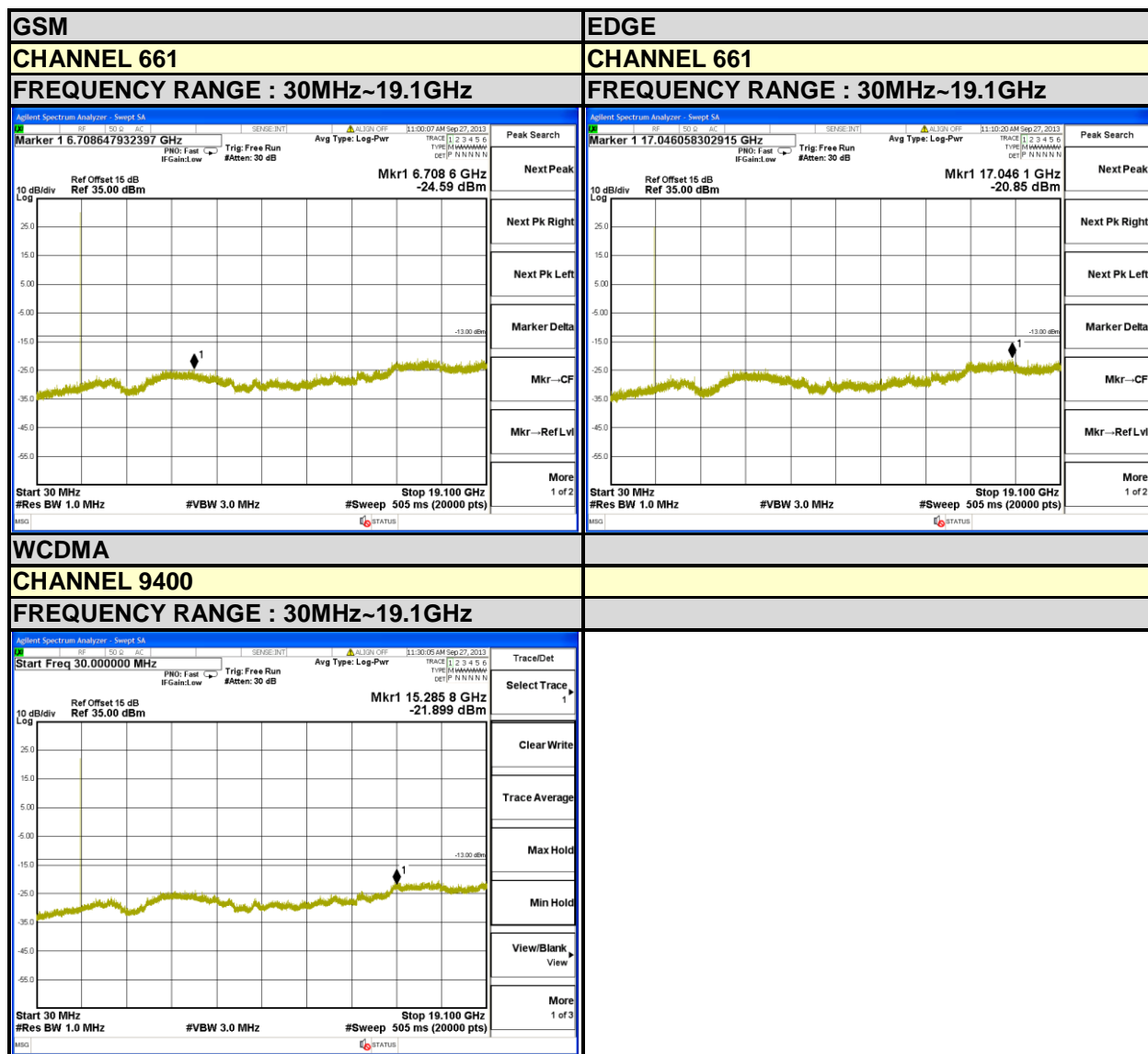
4.6.3 TEST SETUP





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4.6.4 TEST RESULTS



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

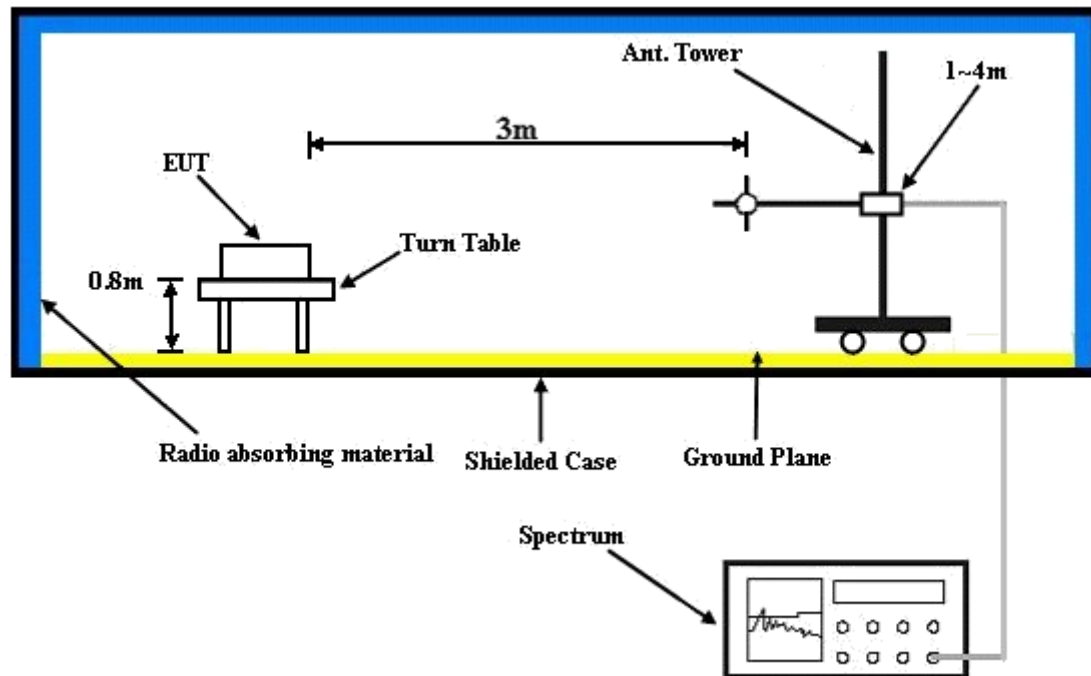
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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).

4.7.5 TEST RESULTS

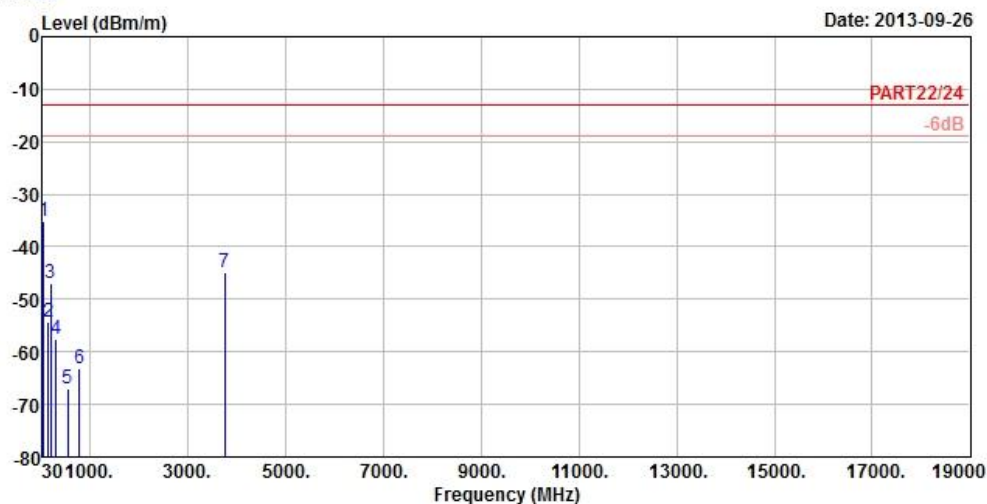
GSM:



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Data: 15



Site : 966 Chamber 5
Condition : PART22/24 3m HORIZONTAL
Brand/Model: VX_675
Remark : GSM1900 Link
Tested by : Anson Lin
Temperature : 25°C
Humidity : 65%
Plane : Y
: sim 2

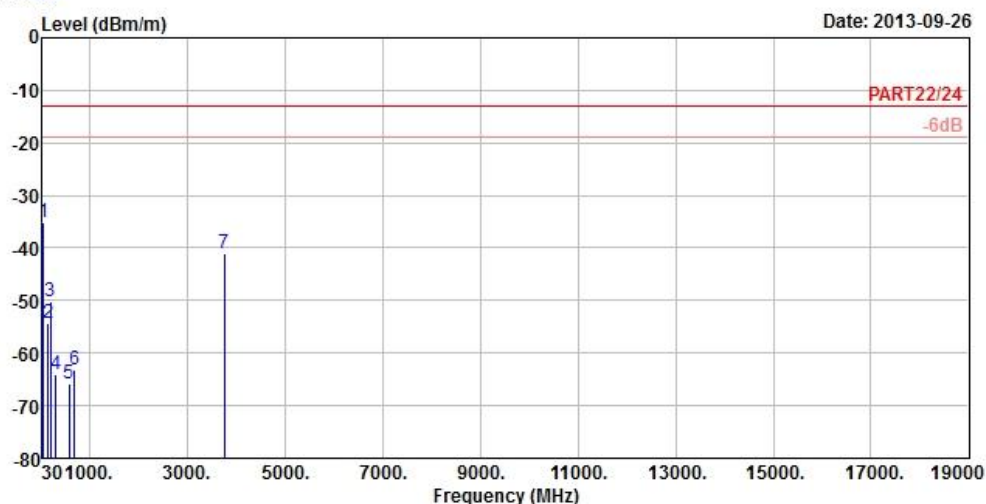
	Freq	Level	Read	Limit	Over		
	MHz	dBm/m	Level	Line	Limit	Factor	Remark
			dBm	dBm/m	dB	dB/m	
1 pp	44.31	-35.11	-33.92	-13.00	-22.11	-1.19	Peak
2	138.27	-54.40	-48.47	-13.00	-41.40	-5.93	Peak
3	199.56	-46.96	-39.01	-13.00	-33.96	-7.95	Peak
4	308.40	-57.59	-51.27	-13.00	-44.59	-6.32	Peak
5	540.80	-66.93	-64.96	-13.00	-53.93	-1.97	Peak
6	785.80	-63.13	-65.16	-13.00	-50.13	2.03	Peak
7	3760.00	-44.84	-36.54	-13.00	-31.84	-8.30	Peak



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Data: 16



Site : 966 Chamber 5
Condition : PART22/24 3m VERTICAL
Brand/Model: VX_675
Remark : GSM1900 Link
Tested by : Anson Lin
Temperature : 25°C
Humidity : 65%
Plane : Y
: sim 2

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	44.04	-35.11	-33.85	-13.00	-22.11	-1.26	Peak
2	140.16	-54.20	-48.47	-13.00	-41.20	-5.73	Peak
3	198.48	-50.18	-42.34	-13.00	-37.18	-7.84	Peak
4	307.70	-64.09	-57.77	-13.00	-51.09	-6.32	Peak
5	575.10	-65.84	-64.80	-13.00	-52.84	-1.04	Peak
6	688.50	-63.03	-64.27	-13.00	-50.03	1.24	Peak
7	3760.00	-40.96	-32.66	-13.00	-27.96	-8.30	Peak



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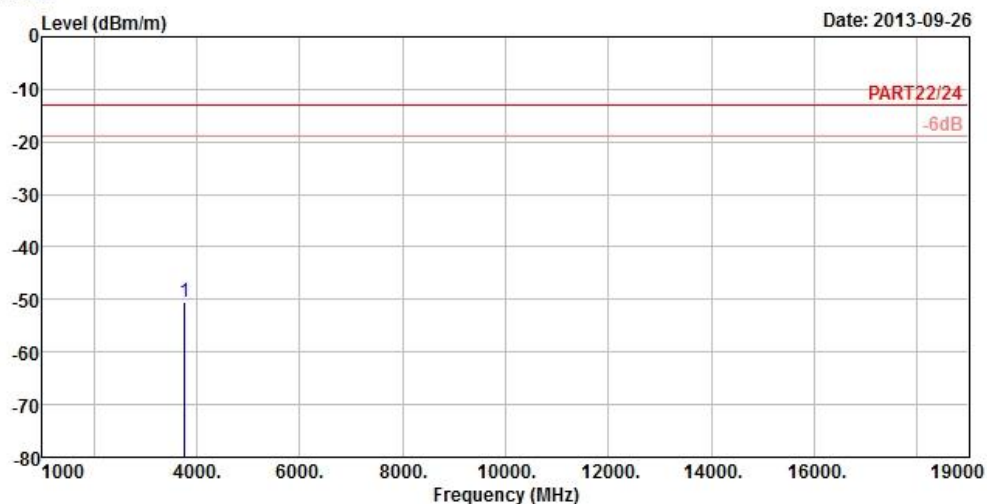
EDGE:



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Data: 11



Site : 966 Chamber 5
Condition : PART22/24 3m HORIZONTAL
Brand/Model: VX_675
Remark : EDGE1900 Link
Tested by : Anson Lin
Temperature : 25°C
Humidity : 65%
Plane : Y
: sim 2

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-50.49	-42.19	-13.00	-37.49	-8.30	Peak



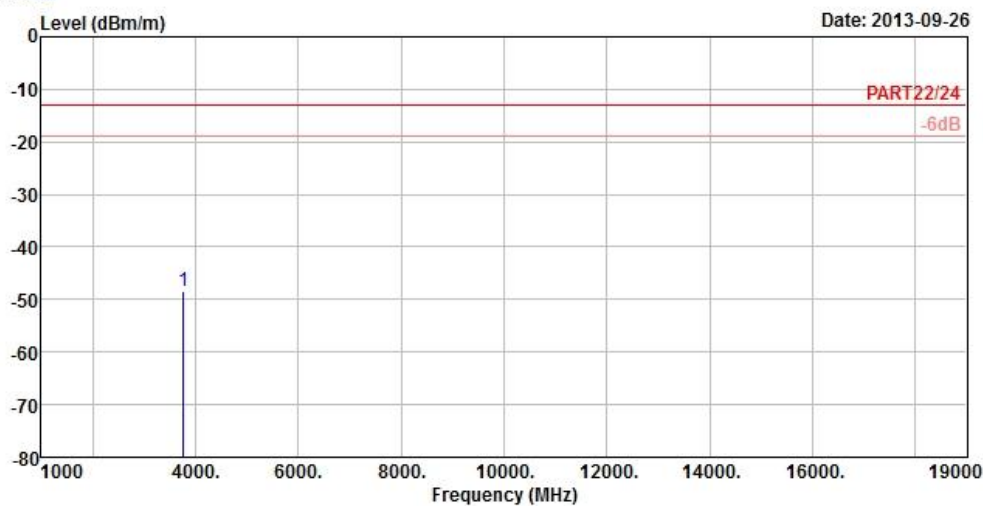
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Data: 12



Site : 966 Chamber 5
Condition : PART22/24 3m VERTICAL
Brand/Model: VX_675
Remark : EDGE1900 Link
Tested by : Anson Lin
Temperature : 25°C
Humidity : 65%
Plane : Y
: sim 2

Freq	Level	Read	Limit	Over	Factor	Remark
		Level	Line	Limit		
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-48.44	-40.14	-13.00	-35.44	-8.30	Peak



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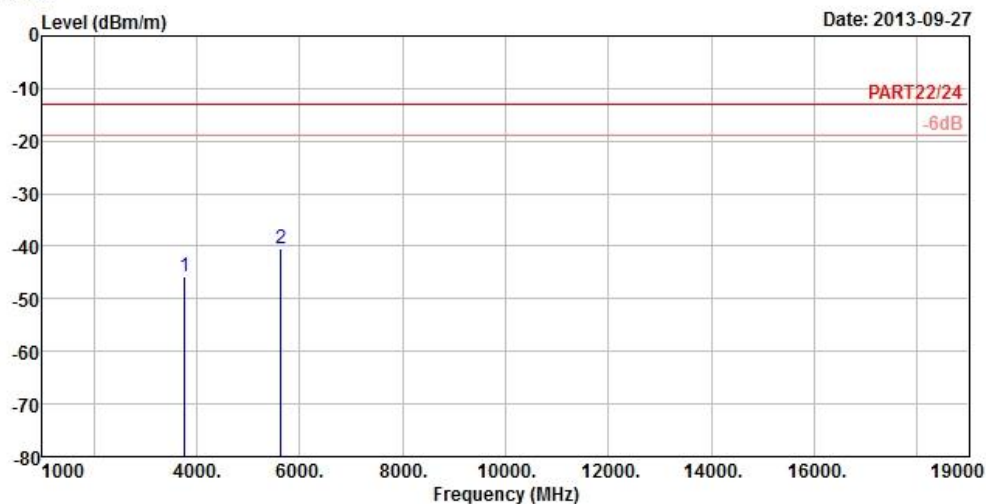
WCDMA:



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A D T

Data: 11



Site : 966 Chamber 5
Condition : PART22/24 3m HORIZONTAL
Brand/Model: VX_675
Remark : Band II Link
Tested by : Anson Lin
Temperature : 25°C
Humidity : 65%
Plane : Y
: sim 2

	Freq	Level	Read	Limit	Over	
	MHz	dBm/m	Level	Line	Limit	Factor Remark
			dBm	dBm/m	dB	dB/m
1	3760.00	-45.61	-37.31	-13.00	-32.61	-8.30 Peak
2 pp	5640.00	-40.48	-38.58	-13.00	-27.48	-1.90 Peak



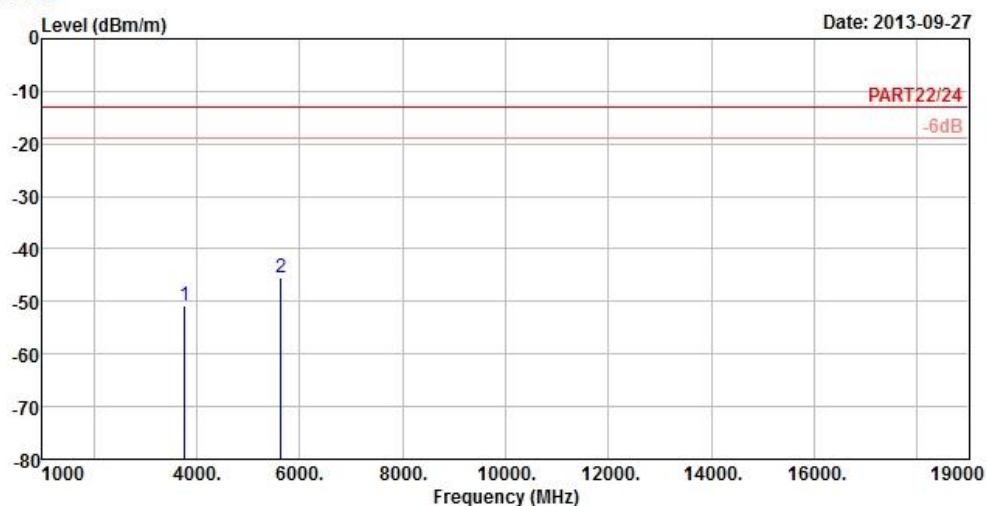
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 12



Site : 966 Chamber 5
Condition : PART22/24 3m VERTICAL
Brand/Model: VX_675
Remark : Band II Link
Tested by : Anson Lin
Temperature : 25°C
Humidity : 65%
Plane : Y
: sim 2

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	3760.00	-50.79	-42.49	-13.00	-37.79	-8.30	Peak
2 pp	5640.00	-45.55	-43.65	-13.00	-32.55	-1.90	Peak



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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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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.



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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---