

FCC TEST REPORT

(PART 24)

REPORT NO.: RF140624C19-1
MODEL NO.: 0P82300
FCC ID: NM80P82300
RECEIVED: Jun. 24, 2014
TESTED: Jul. 16, 2014 ~ Aug. 02, 2014
ISSUED: Aug. 26, 2014

APPLICANT: HTC Corporation

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

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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
RF140624C19-1	Original release	Aug. 26, 2014

1 CERTIFICATION

PRODUCT: Tablet

MODEL: 0P82300

BRAND: HTC

APPLICANT: HTC Corporation

TESTED: Jul. 16, 2014 ~ Aug. 02, 2014

TEST SAMPLE: Production Unit

STANDARDS: FCC Part 24, Subpart E

The above equipment (model: 0P82300) 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** : Aug. 26, 2014

Ivonne Wu / Supervisor

APPROVED BY : Sam Chen , **DATE** : Aug. 26, 2014

Sam Chen / Senior Project Engineer

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 -18.36dB at 5261.10MHz.

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. 15, 2014	Apr. 14, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 27, 2014	Feb. 26, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Feb. 19, 2014	Feb. 18, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 18, 2013	Dec. 17, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 26, 2013	Dec. 25, 2014
Preamplifier EMCI	EMC 184045	980116	Jan. 13, 2014	Jan. 12, 2015
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2013	Dec. 26, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2013	Oct. 17, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2013	Oct. 17, 2014
RF signal cable Worken	RG-213	NA	Nov. 07, 2013	Nov. 06, 2014
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
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY52102544	Sep. 05, 2012	Sep. 04, 2014
Radio Communication Analyzer	MT8820C	6201300640	Aug. 01, 2013	Jul. 31, 2015

NOTE: 1. The calibration interval of the above test instruments is 12/24 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.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

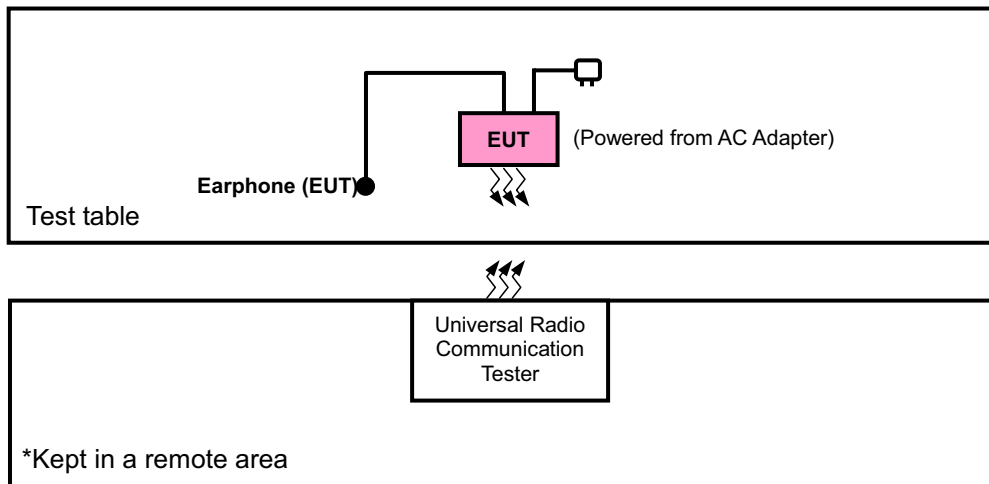
EUT	Tablet	
MODEL NO.	0P82300	
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)	
MODULATION TYPE	GPRS	GMSK
	EDGE	GMSK, 8PSK
	WCDMA	BPSK
	LTE Band 2	QPSK, 16QAM
	LTE Band 25	QPSK, 16QAM
FREQUENCY RANGE	GPRS/EDGE	1850.2MHz ~ 1909.8MHz
	WCDMA	1852.4MHz ~ 1907.6MHz
	LTE Band 2 (Channel Bandwidth: 1.4MHz)	1850.7MHz ~ 1909.3MHz
	LTE Band 2 (Channel Bandwidth: 3MHz)	1851.5MHz ~ 1908.5MHz
	LTE Band 2 (Channel Bandwidth: 5MHz)	1852.5MHz ~ 1907.5MHz
	LTE Band 2 (Channel Bandwidth: 10MHz)	1855.0MHz ~ 1905.0MHz
	LTE Band 2 (Channel Bandwidth: 15MHz)	1857.5MHz ~ 1902.5MHz
	LTE Band 2 (Channel Bandwidth: 20MHz)	1860.0MHz ~ 1900.0MHz
	LTE Band 25 (Channel Bandwidth: 1.4MHz)	1850.7MHz ~ 1914.3MHz
	LTE Band 25 (Channel Bandwidth: 3MHz)	1851.5MHz ~ 1913.5MHz
	LTE Band 25 (Channel Bandwidth: 5MHz)	1852.5MHz ~ 1912.5MHz
	LTE Band 25 (Channel Bandwidth: 10MHz)	1855.0MHz ~ 1910.0MHz
	LTE Band 25 (Channel Bandwidth: 15MHz)	1857.5MHz ~ 1907.5MHz
	LTE Band 25 (Channel Bandwidth: 20MHz)	1860.0MHz ~ 1905.0MHz

MAX. EIRP POWER	GPRS	547.02mW
	EDGE	179.89mW
	WCDMA	102.80mW
	LTE Band 2 (Channel Bandwidth: 1.4MHz)	70.79mW
	LTE Band 2 (Channel Bandwidth: 3MHz)	79.43mW
	LTE Band 2 (Channel Bandwidth: 5MHz)	79.07mW
	LTE Band 2 (Channel Bandwidth: 10MHz)	85.90mW
	LTE Band 2 (Channel Bandwidth: 15MHz)	86.96mW
	LTE Band 2 (Channel Bandwidth: 20MHz)	84.14mW
	LTE Band 25 (Channel Bandwidth: 1.4MHz)	84.53mW
	LTE Band 25 (Channel Bandwidth: 3MHz)	78.70mW
	LTE Band 25 (Channel Bandwidth: 5MHz)	85.90mW
	LTE Band 25 (Channel Bandwidth: 10MHz)	92.26mW
	LTE Band 25 (Channel Bandwidth: 15MHz)	80.35mW
	LTE Band 25 (Channel Bandwidth: 20MHz)	82.28mW
EMISSION DESIGNATOR	GPRS	245KGXW
	EDGE	247KG7W
	WCDMA	4M17F9W
	LTE Band 2 (Channel Bandwidth: 1.4MHz)	1M08G7D
	LTE Band 2 (Channel Bandwidth: 3MHz)	2M68W7D
	LTE Band 2 (Channel Bandwidth: 5MHz)	4M49W7D
	LTE Band 2 (Channel Bandwidth: 10MHz)	8M93G7D
	LTE Band 2 (Channel Bandwidth: 15MHz)	13M4G7D
	LTE Band 2 (Channel Bandwidth: 20MHz)	17M9W7D
	LTE Band 25 (Channel Bandwidth: 1.4MHz)	1M08W7D
	LTE Band 25 (Channel Bandwidth: 3MHz)	2M68W7D
	LTE Band 25 (Channel Bandwidth: 5MHz)	4M49G7D
	LTE Band 25 (Channel Bandwidth: 10MHz)	8M93W7D
	LTE Band 25 (Channel Bandwidth: 15MHz)	13M4W7D
	LTE Band 25 (Channel Bandwidth: 20MHz)	17M8G7D
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	

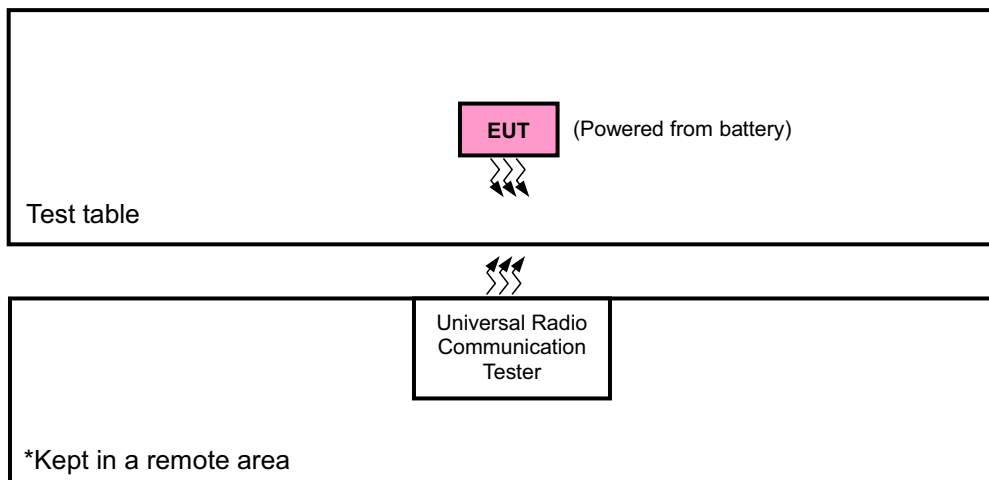
NOTE:

1. There're 2 configurations for the EUT listed as below.
Main sample (A): Battery 1 + eMMC 16G
2nd sample (B): Battery 2 + eMMC 32G
✧ Only the worst test data was presented in the report.
2. The EUT's accessories list refers to Ext. Pho.
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 FOR RADIATION EMISSION TEST



FOR E.I.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 as listed below. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	Main sample
B	2 nd sample

ANTENNA	EUT CONFIGURE MODE	BAND	EIRP	RADIATED EMISSION
0	A	GPRS/EDGE	Z-plane	X-axis
		WCDMA		X-axis
		LTE B2		Z-axis
		LTE B25		X-axis
	B	GPRS	Z-plane	Z-axis
		LTE B2		X-axis
		LTE B25		Y-axis

GPRS MODE

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

WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	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

LTE BAND 2 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	3 RB / 3 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
B	EIRP	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	FREQUENCY STABILITY	18607 to 19193	18900	1.4MHz	QPSK	3 RB / 3 RB Offset
		18615 to 19185	18900	3MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18900	5MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18900	10MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18900	15MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18900	20MHz	QPSK	1 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	3 RB / 3 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB / 0 RB Offset

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	BAND EDGE	18607 to 19193	18607	1.4MHz	QPSK	1 RB / 0 RB Offset
			19193	1.4MHz	QPSK	6 RB / 0 RB Offset
		18615 to 19185	18615	3MHz	QPSK	1 RB / 5 RB Offset
			19185	3MHz	QPSK	6 RB / 0 RB Offset
		18625 to 19175	18625	5MHz	QPSK	1 RB / 0 RB Offset
			19175	5MHz	QPSK	15 RB / 0 RB Offset
		18650 to 19150	18650	10MHz	QPSK	1 RB / 14 RB Offset
			19150	10MHz	QPSK	15 RB / 0 RB Offset
		18675 to 19125	18675	15MHz	QPSK	1 RB / 0 RB Offset
			19125	15MHz	QPSK	25 RB / 0 RB Offset
		18700 to 19100	18700	20MHz	QPSK	1 RB / 24 RB Offset
			19100	20MHz	QPSK	25 RB / 0 RB Offset
		18607 to 19193	18607	1.4MHz	QPSK	1 RB / 0 RB Offset
			19193	1.4MHz	QPSK	50 RB / 0 RB Offset
		18615 to 19185	18615	3MHz	QPSK	1 RB / 49 RB Offset
			19185	3MHz	QPSK	50 RB / 0 RB Offset
A	CONDCUDED EMISSION	18607 to 19193	18900	1.4MHz	QPSK	1 RB / 0 RB Offset
		18615 to 19185	18900	3MHz	QPSK	1 RB / 3 RB Offset
		18625 to 19175	18900	5MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18900	10MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18900	15MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18900	20MHz	QPSK	1 RB / 0 RB Offset
A, B	RADIATED EMISSION	18700 to 19100	18900	20MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE BAND 25 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK / 16QAM	3 RB / 3 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK / 16QAM	1 RB / 14 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK / 16QAM	1 RB / 24 RB Offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK / 16QAM	1 RB / 49 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK / 16QAM	1 RB / 74 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK / 16QAM	1 RB / 99 RB Offset
B	EIRP	26140 to 26590	26140, 26365, 26590	20MHz	QPSK / 16QAM	1 RB / 99 RB Offset
A	FREQUENCY STABILITY	26047 to 26683	26365	1.4MHz	QPSK	3 RB / 3 RB Offset
		26055 to 26675	26365	3MHz	QPSK	1 RB / 14 RB Offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 24 RB Offset
		26090 to 26640	26365	10MHz	QPSK	1 RB / 49 RB Offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 74 RB Offset
		26140 to 26590	26365	20MHz	QPSK	1 RB / 99 RB Offset
A	OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK / 16QAM	6 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK / 16QAM	15 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK / 16QAM	25 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK / 16QAM	50 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK / 16QAM	75 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK / 16QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK / 16QAM	3 RB / 3 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK / 16QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK / 16QAM	1 RB / 0 RB Offset

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	BAND EDGE	26047 to 26683	26047	1.4MHz	QPSK	1 RB / 0 RB Offset
			26683	1.4MHz	QPSK	6 RB / 0 RB Offset
		26055 to 26675	26055	3MHz	QPSK	1 RB / 5 RB Offset
			26675	3MHz	QPSK	6 RB / 0 RB Offset
		26065 to 26665	26065	5MHz	QPSK	1 RB / 0 RB Offset
			26665	5MHz	QPSK	15 RB / 0 RB Offset
		26090 to 26640	26090	10MHz	QPSK	1 RB / 14 RB Offset
			26640	10MHz	QPSK	15 RB / 0 RB Offset
		26115 to 26615	26115	15MHz	QPSK	1 RB / 0 RB Offset
			26615	15MHz	QPSK	25 RB / 0 RB Offset
		26140 to 26590	26140	20MHz	QPSK	1 RB / 24 RB Offset
			26590	20MHz	QPSK	25 RB / 0 RB Offset
		26047 to 26683	26047	1.4MHz	QPSK	1 RB / 0 RB Offset
			26683	1.4MHz	QPSK	75 RB / 0 RB Offset
		26055 to 26675	26055	3MHz	QPSK	1 RB / 74 RB Offset
			26675	3MHz	QPSK	75 RB / 0 RB Offset
A	CONDCUDED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26365	3MHz	QPSK	3 RB / 3 RB Offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB Offset
		26090 to 26640	26365	10MHz	QPSK	1 RB / 0 RB Offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB Offset
A, B	RADIATED EMISSION	26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	26deg. C, 58%RH	3.8Vdc	Dylan Yang
FREQUENCY STABILITY	26deg. C, 58%RH	3.8Vdc	Dylan Yang
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.8Vdc	Dylan Yang
PEAK TO AVERAGE RATIO	26deg. C, 58%RH	3.8Vdc	Dylan Yang
BAND EDGE	26deg. C, 58%RH	3.8Vdc	Dylan Yang
CONDUCTED EMISSION	26deg. C, 58%RH	3.8Vdc	Dylan Yang
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Will Chen / Harry Hsueh

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:

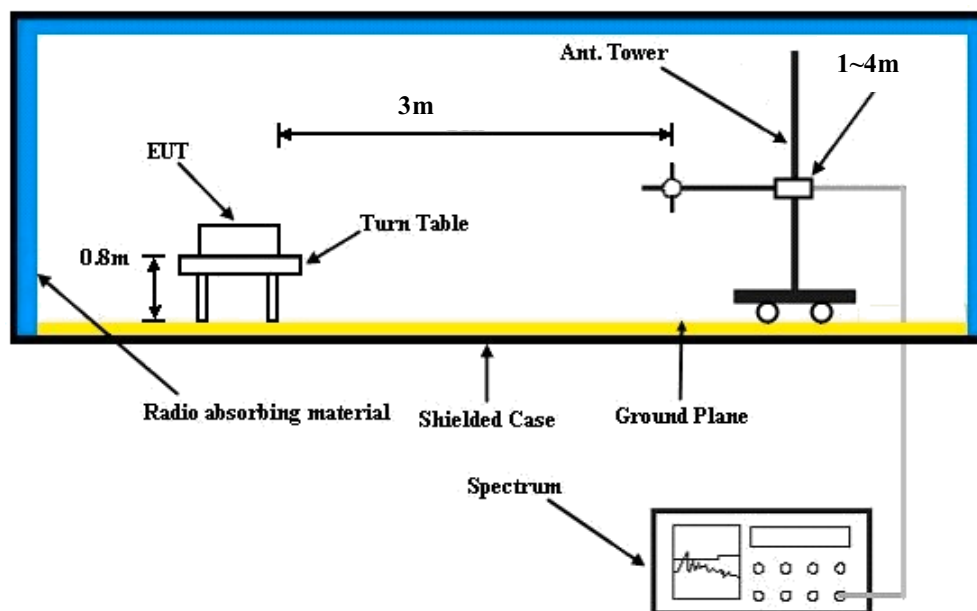
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GPRS & EDGE, 5MHz for WCDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated 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:

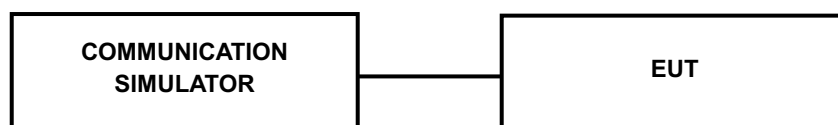
The EUT was set up for the maximum power with GPRS, EDGE & WCDMA & LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:



4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	GPRS1900		
Channel	512	661	810
Frequency (MHz)	1850.2	1880.0	1909.8
GPRS 8 (GMSK, 1 slot)	30.14	30.16	30.12
GPRS 10 (GMSK, 2 slot)	29.55	29.57	29.53
GPRS 11 (GMSK, 3 slot)	27.94	27.96	27.92
GPRS 12 (GMSK, 4 slot)	26.94	26.96	26.92
EDGE 8 (GMSK, 1 Uplink)	30.13	30.15	30.11
EDGE 10 (GMSK, 2 Uplink)	29.54	29.56	29.52
EDGE 11 (GMSK, 3 Uplink)	27.94	27.96	27.92
EDGE 12 (GMSK, 4 Uplink)	26.93	26.95	26.91
EDGE 8 (8PSK, 1 Uplink)	26.02	26.04	26.00
EDGE 10 (8PSK, 2 Uplink)	25.89	25.91	25.87
EDGE 11 (8PSK, 3 Uplink)	25.72	25.74	25.70
EDGE 12 (8PSK, 4 Uplink)	25.33	25.35	25.31

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	22.88	22.91	23.12
HSDPA Subtest-1	21.80	21.83	22.04
HSDPA Subtest-2	21.78	21.81	22.02
HSDPA Subtest-3	21.39	21.42	21.63
HSDPA Subtest-4	21.32	21.35	21.56
HSUPA Subtest-1	21.22	21.25	21.46
HSUPA Subtest-2	19.96	19.99	20.20
HSUPA Subtest-3	20.25	20.28	20.49
HSUPA Subtest-4	19.95	19.98	20.19
HSUPA Subtest-5	21.92	21.95	22.16

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18607	Mid CH 18900	High CH 19193		Low CH 18607	Mid CH 18900	High CH 19193	
			1850.7 MHz	1880.0 MHz	1909.3 MHz		1850.7 MHz	1880.0 MHz	1909.3 MHz	
2 / 1.4M	1	0	22.26	22.15	22.17	0	21.20	21.08	21.10	1
	1	2	22.09	22.01	22.07	0	21.02	20.94	21.00	1
	1	5	22.21	22.13	22.19	0	21.14	21.06	21.12	1
	3	0	22.17	22.09	22.15	0	21.10	21.02	21.08	1
	3	1	22.22	22.14	22.20	0	21.15	21.07	21.13	1
	3	3	22.25	22.17	22.23	0	21.18	21.10	21.16	1
	6	0	21.09	21.01	21.07	1	20.02	19.94	20.00	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18615	Mid CH 18900	High CH 19185		Low CH 18615	Mid CH 18900	High CH 19185	
			1851.5 MHz	1880.0 MHz	1908.5 MHz		1851.5 MHz	1880.0 MHz	1908.5 MHz	
2 / 3M	1	0	22.32	22.24	22.26	0	21.31	21.23	21.25	1
	1	7	22.18	22.10	22.16	0	21.17	21.09	21.15	1
	1	14	22.30	22.22	22.28	0	21.29	21.21	21.27	1
	8	0	21.13	21.05	21.11	1	20.12	20.04	20.10	2
	8	3	21.18	21.10	21.16	1	20.17	20.09	20.15	2
	8	7	21.21	21.13	21.19	1	20.2	20.12	20.18	2
	15	0	21.18	21.10	21.16	1	20.17	20.09	20.15	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18625	Mid CH 18900	High CH 19175		Low CH 18625	Mid CH 18900	High CH 19175	
			1852.5 MHz	1880.0 MHz	1907.5 MHz		1852.5 MHz	1880.0 MHz	1907.5 MHz	
2 / 5M	1	0	22.40	22.29	22.31	0	21.30	21.22	21.24	1
	1	12	22.23	22.15	22.21	0	21.16	21.08	21.14	1
	1	24	22.35	22.27	22.33	0	21.28	21.20	21.26	1
	12	0	21.18	21.10	21.16	1	20.11	20.03	20.09	2
	12	6	21.23	21.15	21.21	1	20.16	20.08	20.14	2
	12	13	21.26	21.18	21.24	1	20.19	20.11	20.17	2
	25	0	21.23	21.15	21.21	1	20.16	20.08	20.14	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18650	Mid CH 18900	High CH 19150		Low CH 18650	Mid CH 18900	High CH 19150	
			1855.0 MHz	1880.0 MHz	1905.0 MHz		1855.0 MHz	1880.0 MHz	1905.0 MHz	
2 / 10M	1	0	22.43	22.35	22.37	0	21.37	21.29	21.31	1
	1	24	22.29	22.21	22.27	0	21.23	21.15	21.21	1
	1	49	22.41	22.33	22.39	0	21.35	21.27	21.33	1
	25	0	21.24	21.16	21.22	1	20.18	20.10	20.16	2
	25	12	21.29	21.21	21.27	1	20.23	20.15	20.21	2
	25	25	21.32	21.24	21.30	1	20.26	20.18	20.24	2
	50	0	21.29	21.21	21.27	1	20.23	20.15	20.21	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18675	Mid CH 18900	High CH 19125		Low CH 18675	Mid CH 18900	High CH 19125	
			1857.5 MHz	1880.0 MHz	1902.5 MHz		1857.5 MHz	1880.0 MHz	1902.5 MHz	
2 / 15M	1	0	22.50	22.42	22.44	0	21.45	21.37	21.39	1
	1	37	22.36	22.28	22.34	0	21.31	21.23	21.29	1
	1	74	22.48	22.40	22.46	0	21.43	21.35	21.41	1
	36	0	21.31	21.23	21.29	1	20.26	20.18	20.24	2
	36	19	21.36	21.28	21.34	1	20.31	20.23	20.29	2
	36	39	21.39	21.31	21.37	1	20.34	20.26	20.32	2
	75	0	21.36	21.28	21.34	1	20.31	20.23	20.29	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 18700	Mid CH 18900	High CH 19100		Low CH 18700	Mid CH 18900	High CH 19100	
			1860.0 MHz	1880.0 MHz	1900.0 MHz		1860.0 MHz	1880.0 MHz	1900.0 MHz	
2 / 20M	1	0	22.57	22.49	22.51	0	21.51	21.43	21.45	1
	1	50	22.43	22.35	22.41	0	21.37	21.29	21.35	1
	1	99	22.55	22.47	22.53	0	21.49	21.41	21.47	1
	50	0	21.38	21.30	21.36	1	20.32	20.24	20.30	2
	50	25	21.43	21.35	21.41	1	20.37	20.29	20.35	2
	50	50	21.46	21.38	21.44	1	20.40	20.32	20.38	2
	100	0	21.43	21.35	21.41	1	20.37	20.29	20.35	2

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Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26047	Mid CH 26365	High CH 26683		Low CH 26047	Mid CH 26365	High CH 26683	
			1850.7 MHz	1882.5 MHz	1914.3 MHz		1850.7 MHz	1882.5 MHz	1914.3 MHz	
25 / 1.4M	1	0	21.72	21.54	21.70	0	20.66	20.48	20.64	1
	1	2	21.60	21.42	21.58	0	20.54	20.36	20.52	1
	1	5	21.77	21.59	21.75	0	20.71	20.53	20.69	1
	3	0	21.72	21.54	21.7	0	20.66	20.48	20.64	1
	3	1	21.83	21.65	21.81	0	20.77	20.59	20.75	1
	3	3	21.88	21.70	21.86	0	20.82	20.64	20.80	1
	6	0	20.69	20.51	20.67	1	19.63	19.45	19.61	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26055	Mid CH 26365	High CH 26675		Low CH 26055	Mid CH 26365	High CH 26675	
			1851.5 MHz	1882.5 MHz	1913.5 MHz		1851.5 MHz	1882.5 MHz	1913.5 MHz	
25 / 3M	1	0	21.84	21.66	21.82	0	20.79	20.61	20.77	1
	1	7	21.72	21.54	21.70	0	20.67	20.49	20.65	1
	1	14	21.89	21.71	21.87	0	20.84	20.66	20.82	1
	8	0	20.7	20.52	20.68	1	19.65	19.47	19.63	2
	8	3	20.81	20.63	20.79	1	19.76	19.58	19.74	2
	8	7	20.86	20.68	20.84	1	19.81	19.63	19.79	2
	15	0	20.81	20.63	20.79	1	19.76	19.58	19.74	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26065	Mid CH 26365	High CH 26665		Low CH 26065	Mid CH 26365	High CH 26665	
			1852.5 MHz	1882.5 MHz	1912.5 MHz		1852.5 MHz	1882.5 MHz	1912.5 MHz	
25 / 5M	1	0	22.15	21.97	22.13	0	21.12	20.94	21.10	1
	1	12	22.03	21.85	22.01	0	21.00	20.82	20.98	1
	1	24	22.20	22.02	22.18	0	21.17	20.99	21.15	1
	12	0	21.01	20.83	20.99	1	19.98	19.80	19.96	2
	12	6	21.12	20.94	21.10	1	20.09	19.91	20.07	2
	12	13	21.17	20.99	21.15	1	20.14	19.96	20.12	2
	25	0	21.12	20.94	21.10	1	20.09	19.91	20.07	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26090	Mid CH 26365	High CH 26640		Low CH 26090	Mid CH 26365	High CH 26640	
			1855.0 MHz	1882.5 MHz	1910.0 MHz		1855.0 MHz	1882.5 MHz	1910.0 MHz	
25 / 10M	1	0	22.27	22.09	22.25	0	21.22	21.04	21.20	1
	1	24	22.15	21.97	22.13	0	21.10	20.92	21.08	1
	1	49	22.32	22.14	22.30	0	21.27	21.09	21.25	1
	25	0	21.13	20.95	21.11	1	20.08	19.90	20.06	2
	25	12	21.24	21.06	21.22	1	20.19	20.01	20.17	2
	25	25	21.29	21.11	21.27	1	20.24	20.06	20.22	2
	50	0	21.24	21.06	21.22	1	20.19	20.01	20.17	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26115	Mid CH 26365	High CH 26615		Low CH 26115	Mid CH 26365	High CH 26615	
			1857.5 MHz	1882.5 MHz	1907.5 MHz		1857.5 MHz	1882.5 MHz	1907.5 MHz	
25 / 15M	1	0	22.39	22.21	22.37	0	21.31	21.13	21.29	1
	1	37	22.27	22.09	22.25	0	21.19	21.01	21.17	1
	1	74	22.44	22.26	22.42	0	21.36	21.18	21.34	1
	36	0	21.25	21.07	21.23	1	20.17	19.99	20.15	2
	36	19	21.36	21.18	21.34	1	20.28	20.10	20.26	2
	36	39	21.41	21.23	21.39	1	20.33	20.15	20.31	2
	75	0	21.36	21.18	21.34	1	20.28	20.10	20.26	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH 26140	Mid CH 26365	High CH 26590		Low CH 26140	Mid CH 26365	High CH 26590	
			1860.0 MHz	1882.5 MHz	1905.0 MHz		1860.0 MHz	1882.5 MHz	1905.0 MHz	
25 / 20M	1	0	22.54	22.36	22.52	0	21.51	21.33	21.49	1
	1	50	22.42	22.24	22.4	0	21.39	21.21	21.37	1
	1	99	22.59	22.41	22.57	0	21.56	21.38	21.54	1
	50	0	21.4	21.22	21.38	1	20.37	20.19	20.35	2
	50	25	21.51	21.33	21.49	1	20.48	20.30	20.46	2
	50	50	21.56	21.38	21.54	1	20.53	20.35	20.51	2
	100	0	21.51	21.33	21.49	1	20.48	20.30	20.46	2

EIRP POWER (dBm)

MODE A

GPRS							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	512	1850.2	-17.32	44.70	27.38	547.02	H
	661	1880.0	-17.53	44.70	27.17	521.19	H
	810	1909.8	-17.58	44.57	26.99	500.38	H
	512	1850.2	-18.70	44.27	25.57	360.58	V
	661	1880.0	-19.38	44.87	25.49	354.00	V
	810	1909.8	-19.06	44.61	25.55	359.17	V

EDGE							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	512	1850.2	-22.15	44.70	22.55	179.89	H
	661	1880.0	-22.66	44.70	22.04	159.96	H
	810	1909.8	-22.56	44.57	22.01	158.96	H
	512	1850.2	-22.71	44.27	21.56	143.22	V
	661	1880.0	-24.50	44.87	20.37	108.89	V
	810	1909.8	-24.06	44.61	20.55	113.58	V

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	9262	1852.4	-24.63	44.70	20.07	101.62	H
	9400	1880.0	-24.58	44.70	20.12	102.80	H
	9538	1907.6	-24.75	44.57	19.82	96.01	H
	9262	1852.4	-25.67	44.27	18.60	72.44	V
	9400	1880.0	-25.94	44.87	18.93	78.16	V
	9538	1907.6	-26.05	44.61	18.56	71.83	V

LTE Band 2							
Channel Bandwidth: 1.4MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18607	1850.7	-26.21	44.70	18.49	70.63	H
	18900	1880.0	-26.20	44.70	18.50	70.79	H
	19193	1909.3	-26.24	44.57	18.33	68.12	H
	18607	1850.7	-26.87	44.27	17.40	54.95	V
	18900	1880.0	-27.56	44.87	17.31	53.83	V
	19193	1909.3	-27.11	44.61	17.50	56.27	V

LTE Band 2							
Channel Bandwidth: 1.4MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18607	1850.7	-26.73	44.70	17.97	62.66	H
	18900	1880.0	-27.58	44.70	17.12	51.52	H
	19193	1909.3	-26.86	44.57	17.71	59.06	H
	18607	1850.7	-27.38	44.27	16.89	48.87	V
	18900	1880.0	-28.93	44.87	15.94	39.26	V
	19193	1909.3	-27.70	44.61	16.91	49.12	V

LTE Band 2							
Channel Bandwidth: 3MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18615	1851.5	-25.74	44.70	18.96	78.70	H
	18900	1880.0	-25.70	44.70	19.00	79.43	H
	19185	1908.5	-25.82	44.57	18.75	75.04	H
	18615	1851.5	-26.36	44.27	17.91	61.80	V
	18900	1880.0	-26.89	44.87	17.98	62.81	V
	19185	1908.5	-27.51	44.61	17.10	51.32	V

LTE Band 2							
Channel Bandwidth: 3MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18615	1851.5	-26.86	44.70	17.84	60.81	H
	18900	1880.0	-27.01	44.70	17.69	58.75	H
	19185	1908.5	-27.07	44.57	17.50	56.27	H
	18615	1851.5	-27.50	44.27	16.77	47.53	V
	18900	1880.0	-28.13	44.87	16.74	47.21	V
	19185	1908.5	-28.67	44.61	15.94	39.29	V

LTE Band 2							
Channel Bandwidth: 5MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18625	1852.5	-25.72	44.70	18.98	79.07	H
	18900	1880.0	-25.97	44.70	18.73	74.64	H
	19175	1907.5	-26.28	44.57	18.29	67.50	H
	18625	1852.5	-26.38	44.27	17.89	61.52	V
	18900	1880.0	-26.93	44.87	17.94	62.23	V
	19175	1907.5	-27.86	44.61	16.75	47.35	V

LTE Band 2							
Channel Bandwidth: 5MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18625	1852.5	-27.01	44.70	17.69	58.75	H
	18900	1880.0	-26.89	44.70	17.81	60.39	H
	19175	1907.5	-26.81	44.57	17.76	59.74	H
	18625	1852.5	-27.53	44.27	16.74	47.21	V
	18900	1880.0	-28.09	44.87	16.78	47.64	V
	19175	1907.5	-28.42	44.61	16.19	41.62	V

LTE Band 2							
Channel Bandwidth: 10MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18650	1855.0	-25.85	44.70	18.85	76.74	H
	18900	1880.0	-25.36	44.70	19.34	85.90	H
	19150	1905.0	-25.46	44.57	19.11	81.53	H
	18650	1855.0	-26.28	44.27	17.99	62.95	V
	18900	1880.0	-26.28	44.87	18.59	72.28	V
	19150	1905.0	-26.34	44.61	18.27	67.19	V

LTE Band 2							
Channel Bandwidth: 10MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18650	1855.0	-26.80	44.70	17.90	61.66	H
	18900	1880.0	-27.30	44.70	17.40	54.95	H
	19150	1905.0	-26.36	44.57	18.21	66.27	H
	18650	1855.0	-27.45	44.27	16.82	48.08	V
	18900	1880.0	-28.09	44.87	16.78	47.64	V
	19150	1905.0	-27.28	44.61	17.33	54.11	V

LTE Band 2							
Channel Bandwidth: 15MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18675	1857.5	-25.80	44.70	18.90	77.62	H
	18900	1880.0	-25.68	44.70	19.02	79.80	H
	19125	1902.5	-25.18	44.57	19.39	86.96	H
	18675	1857.5	-26.43	44.27	17.84	60.81	V
	18900	1880.0	-27.35	44.87	17.52	56.49	V
	19125	1902.5	-26.89	44.61	17.72	59.20	V

LTE Band 2							
Channel Bandwidth: 15MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18675	1857.5	-26.81	44.70	17.89	61.52	H
	18900	1880.0	-26.55	44.70	18.15	65.31	H
	19125	1902.5	-26.11	44.57	18.46	70.19	H
	18675	1857.5	-27.43	44.27	16.84	48.31	V
	18900	1880.0	-28.26	44.87	16.61	45.81	V
	19125	1902.5	-27.98	44.61	16.63	46.06	V

LTE Band 2							
Channel Bandwidth: 20MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18700	1860.0	-25.45	44.70	19.25	84.14	H
	18900	1880.0	-25.75	44.70	18.95	78.52	H
	19100	1900.0	-25.81	44.57	18.76	75.21	H
	18700	1860.0	-26.23	44.27	18.04	63.68	V
	18900	1880.0	-27.56	44.87	17.31	53.83	V
	19100	1900.0	-26.70	44.61	17.91	61.84	V

LTE Band 2							
Channel Bandwidth: 20MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18700	1860.0	-26.71	44.70	17.99	62.95	H
	18900	1880.0	-26.72	44.70	17.98	62.81	H
	19100	1900.0	-26.78	44.57	17.79	60.16	H
	18700	1860.0	-27.38	44.27	16.89	48.87	V
	18900	1880.0	-28.46	44.87	16.41	43.75	V
	19100	1900.0	-27.64	44.61	16.97	49.81	V

LTE Band 25							
Channel Bandwidth: 1.4MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26047	1850.7	-25.43	44.70	19.27	84.53	H
	26365	1882.5	-26.54	44.70	18.16	65.46	H
	26683	1914.3	-25.98	44.57	18.59	72.33	H
	26047	1850.7	-26.65	44.27	17.62	57.81	V
	26365	1882.5	-27.43	44.87	17.44	55.46	V
	26683	1914.3	-26.88	44.61	17.73	59.33	V

LTE Band 25							
Channel Bandwidth: 1.4MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26047	1850.7	-26.99	44.70	17.71	59.02	H
	26365	1882.5	-27.14	44.70	17.56	57.02	H
	26683	1914.3	-26.54	44.57	18.03	63.58	H
	26047	1850.7	-28.14	44.27	16.13	41.02	V
	26365	1882.5	-28.05	44.87	16.82	48.08	V
	26683	1914.3	-27.47	44.61	17.14	51.80	V

LTE Band 25							
Channel Bandwidth: 3MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26055	1851.5	-25.74	44.70	18.96	78.70	H
	26365	1882.5	-26.11	44.70	18.59	72.28	H
	26675	1913.5	-25.70	44.57	18.87	77.14	H
	26055	1851.5	-26.11	44.27	18.16	65.46	V
	26365	1882.5	-26.93	44.87	17.94	62.23	V
	26675	1913.5	-26.55	44.61	18.06	64.02	V

LTE Band 25							
Channel Bandwidth: 3MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26055	1851.5	-27.16	44.70	17.54	56.75	H
	26365	1882.5	-27.16	44.70	17.54	56.75	H
	26675	1913.5	-26.85	44.57	17.72	59.20	H
	26055	1851.5	-27.49	44.27	16.78	47.64	V
	26365	1882.5	-27.95	44.87	16.92	49.20	V
	26675	1913.5	-27.81	44.61	16.80	47.90	V

LTE Band 25							
Channel Bandwidth: 5MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26065	1852.5	-25.36	44.70	19.34	85.90	H
	26365	1882.5	-26.08	44.70	18.62	72.78	H
	26665	1912.5	-25.66	44.57	18.91	77.86	H
	26065	1852.5	-26.10	44.27	18.17	65.61	V
	26365	1882.5	-27.82	44.87	17.05	50.70	V
	26665	1912.5	-26.58	44.61	18.03	63.58	V

LTE Band 25							
Channel Bandwidth: 5MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26065	1852.5	-26.56	44.70	18.14	65.16	H
	26365	1882.5	-27.03	44.70	17.67	58.48	H
	26665	1912.5	-26.77	44.57	17.80	60.30	H
	26065	1852.5	-27.29	44.27	16.98	49.89	V
	26365	1882.5	-28.76	44.87	16.11	40.83	V
	26665	1912.5	-27.66	44.61	16.95	49.58	V

LTE Band 25							
Channel Bandwidth: 10MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26090	1855	-25.05	44.70	19.65	92.26	H
	26365	1882.5	-26.00	44.70	18.70	74.13	H
	26640	1910	-25.62	44.57	18.95	78.58	H
	26090	1855	-26.23	44.27	18.04	63.68	V
	26365	1882.5	-27.69	44.87	17.18	52.24	V
	26640	1910	-26.51	44.61	18.10	64.61	V

LTE Band 25							
Channel Bandwidth: 10MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26090	1855	-26.08	44.70	18.62	72.78	H
	26365	1882.5	-26.77	44.70	17.93	62.09	H
	26640	1910	-26.69	44.57	17.88	61.42	H
	26090	1855	-27.15	44.27	17.12	51.52	V
	26365	1882.5	-28.48	44.87	16.39	43.55	V
	26640	1910	-28.34	44.61	16.27	42.39	V

LTE Band 25							
Channel Bandwidth: 15MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26115	1857.5	-25.65	44.70	19.05	80.35	H
	26365	1882.5	-25.83	44.70	18.87	77.09	H
	26615	1907.5	-25.59	44.57	18.98	79.12	H
	26115	1857.5	-26.02	44.27	18.25	66.83	V
	26365	1882.5	-26.80	44.87	18.07	64.12	V
	26615	1907.5	-26.50	44.61	18.11	64.76	V

LTE Band 25							
Channel Bandwidth: 15MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26115	1857.5	-26.51	44.70	18.19	65.92	H
	26365	1882.5	-26.90	44.70	17.80	60.26	H
	26615	1907.5	-26.59	44.57	17.98	62.85	H
	26115	1857.5	-27.91	44.27	16.36	43.25	V
	26365	1882.5	-28.52	44.87	16.35	43.15	V
	26615	1907.5	-27.40	44.61	17.21	52.64	V

LTE Band 25							
Channel Bandwidth: 20MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26140	1860	-25.62	44.70	19.08	80.91	H
	26365	1882.5	-25.81	44.70	18.89	77.45	H
	26590	1905	-25.56	44.57	19.01	79.67	H
	26140	1860	-26.87	44.27	17.40	54.95	V
	26365	1882.5	-27.36	44.87	17.51	56.36	V
	26590	1905	-26.41	44.61	18.20	66.11	V

LTE Band 25							
Channel Bandwidth: 20MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26140	1860	-26.46	44.70	18.24	66.68	H
	26365	1882.5	-26.54	44.70	18.16	65.46	H
	26590	1905	-26.62	44.57	17.95	62.42	H
	26140	1860	-27.70	44.27	16.57	45.39	V
	26365	1882.5	-28.16	44.87	16.71	46.88	V
	26590	1905	-28.46	44.61	16.15	41.24	V

MODE B

GPRS							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	512	1850.2	-17.83	22.68	1.19	5.38	H
	661	1880.0	-17.61	22.86	1.11	5.34	H
	810	1909.8	-17.44	23.02	1.20	5.31	H
	512	1850.2	-18.82	21.26	1.19	5.38	V
	661	1880.0	-19.13	21.51	1.11	5.34	V
	810	1909.8	-19.32	21.18	1.20	5.31	V

LTE Band 2							
Channel Bandwidth: 20MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18700	1860.0	-25.81	44.70	18.89	77.45	H
	18900	1880.0	-25.46	44.70	19.24	83.95	H
	19100	1900.0	-25.33	44.57	19.24	84.00	H
	18700	1860.0	-26.71	44.27	17.56	57.02	V
	18900	1880.0	-27.21	44.87	17.66	58.34	V
	19100	1900.0	-26.62	44.61	17.99	62.99	V

LTE Band 2							
Channel Bandwidth: 20MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	18700	1860.0	-26.49	44.70	18.21	66.22	H
	18900	1880.0	-26.50	44.70	18.20	66.07	H
	19100	1900.0	-26.83	44.57	17.74	59.47	H
	18700	1860.0	-27.31	44.27	16.96	49.66	V
	18900	1880.0	-28.44	44.87	16.43	43.95	V
	19100	1900.0	-28.10	44.61	16.51	44.80	V

LTE Band 25							
Channel Bandwidth: 20MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26140	1860	-25.62	44.70	19.08	80.91	H
	26365	1882.5	-25.87	44.70	18.83	76.38	H
	26590	1905	-25.42	44.57	19.15	82.28	H
	26140	1860	-26.69	44.27	17.58	57.28	V
	26365	1882.5	-27.39	44.87	17.48	55.98	V
	26590	1905	-26.92	44.61	17.69	58.79	V

LTE Band 25							
Channel Bandwidth: 20MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	EIRP(dBm)	EIRP(mW)	Polarization (H/V)
Z	26140	1860	-26.69	44.70	18.01	63.24	H
	26365	1882.5	-26.59	44.70	18.11	64.71	H
	26590	1905	-26.82	44.57	17.75	59.61	H
	26140	1860	-27.73	44.27	16.54	45.08	V
	26365	1882.5	-28.29	44.87	16.58	45.50	V
	26590	1905	-28.60	44.61	16.01	39.93	V

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

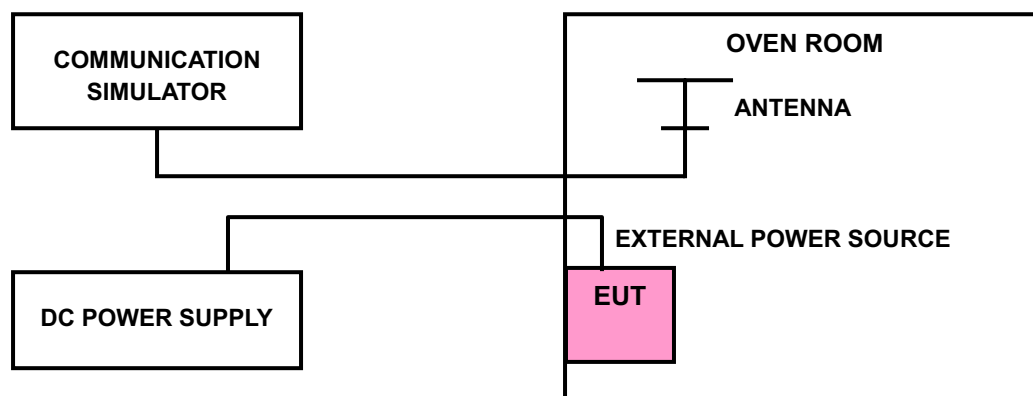
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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)
	GPRS	EDGE	WCDMA	
3.8	0.027	0.025	0.003	2.5
3.6	0.026	0.029	0.002	2.5
4.35	0.028	0.029	0.002	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	0.025	0.025	0.002	2.5
-20	0.026	0.026	0.003	2.5
-10	0.027	0.027	0.001	2.5
0	0.025	0.024	0.002	2.5
10	0.024	0.023	0.003	2.5
20	0.023	0.027	0.002	2.5
30	0.028	0.029	0.002	2.5
40	0.028	0.028	0.002	2.5
50	0.027	0.027	0.001	2.5
55	0.026	0.026	0.002	2.5

FREQUENCY ERROR vs. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)						LIMIT (ppm)
	LTE Band 2						
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
3.8	-0.002	-0.003	-0.001	-0.002	-0.004	0.001	2.5
3.6	-0.002	0.006	-0.003	-0.001	-0.003	-0.002	2.5
4.35	0.001	-0.003	-0.001	-0.002	-0.002	-0.002	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)
	LTE Band 2						
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
-30	-0.0014	-0.0009	-0.0025	-0.0024	-0.0011	0.0018	2.5
-20	0.0005	-0.0006	0.0015	0.0006	-0.0017	0.0010	2.5
-10	0.0021	-0.0032	-0.0043	-0.0012	-0.0027	0.0019	2.5
0	0.0025	-0.0021	-0.0010	-0.0028	-0.0014	0.0011	2.5
10	0.0020	-0.0007	0.0012	-0.0035	-0.0012	-0.0021	2.5
20	0.0039	-0.0053	0.0023	-0.0023	-0.0036	0.0004	2.5
30	0.0018	0.0011	-0.0026	-0.0025	-0.0024	-0.0011	2.5
40	0.0037	0.0012	-0.0021	-0.0022	-0.0031	0.0010	2.5
50	-0.0027	0.0021	-0.0015	-0.0011	-0.0022	-0.0009	2.5
55	-0.0032	-0.0035	-0.0007	-0.0019	-0.0026	0.0016	2.5

FREQUENCY ERROR vs. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)						LIMIT (ppm)
	LTE Band 25						
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
3.8	0.004	0.003	0.001	0.001	0.003	0.004	2.5
3.6	0.003	0.001	0.002	0.001	-0.001	0.002	2.5
4.35	0.002	0.002	0.001	0.003	0.002	0.002	2.5

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

FREQUENCY ERROR vs. TEMPERATURE

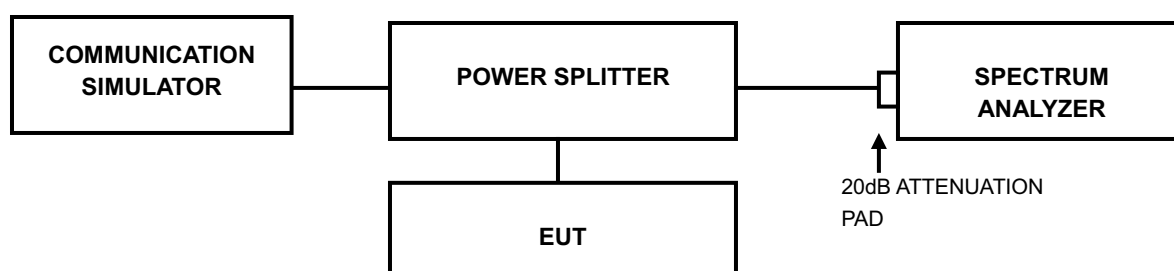
FREQUENCY ERROR VS. TEMP. ERROR							
TEMP. (°C)	FREQUENCY ERROR (ppm)						LIMIT (ppm)
	LTE Band 25						
	1.4MHz	3MHz	5MHz	10MHz	15MHz	20MHz	
-30	-0.0024	-0.0019	0.0012	0.0018	0.0022	0.0020	2.5
-20	0.0008	0.0014	0.0022	0.0007	0.0006	0.0049	2.5
-10	0.0032	-0.0006	0.0021	0.0005	0.0030	0.0044	2.5
0	-0.0003	-0.0010	0.0016	0.0034	0.0027	0.0011	2.5
10	0.0028	0.0040	0.0012	0.0024	0.0007	0.0025	2.5
20	0.0036	0.0047	0.0028	0.0025	0.0023	0.0013	2.5
30	0.0047	0.0023	0.0035	0.0032	0.0032	0.0020	2.5
40	0.0035	0.0024	0.0033	0.0023	0.0039	0.0033	2.5
50	0.0027	0.0060	0.0032	-0.0020	0.0019	0.0042	2.5
55	-0.0009	0.0023	0.0018	0.0025	-0.0029	0.0029	2.5

4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 TEST PROCEDURES

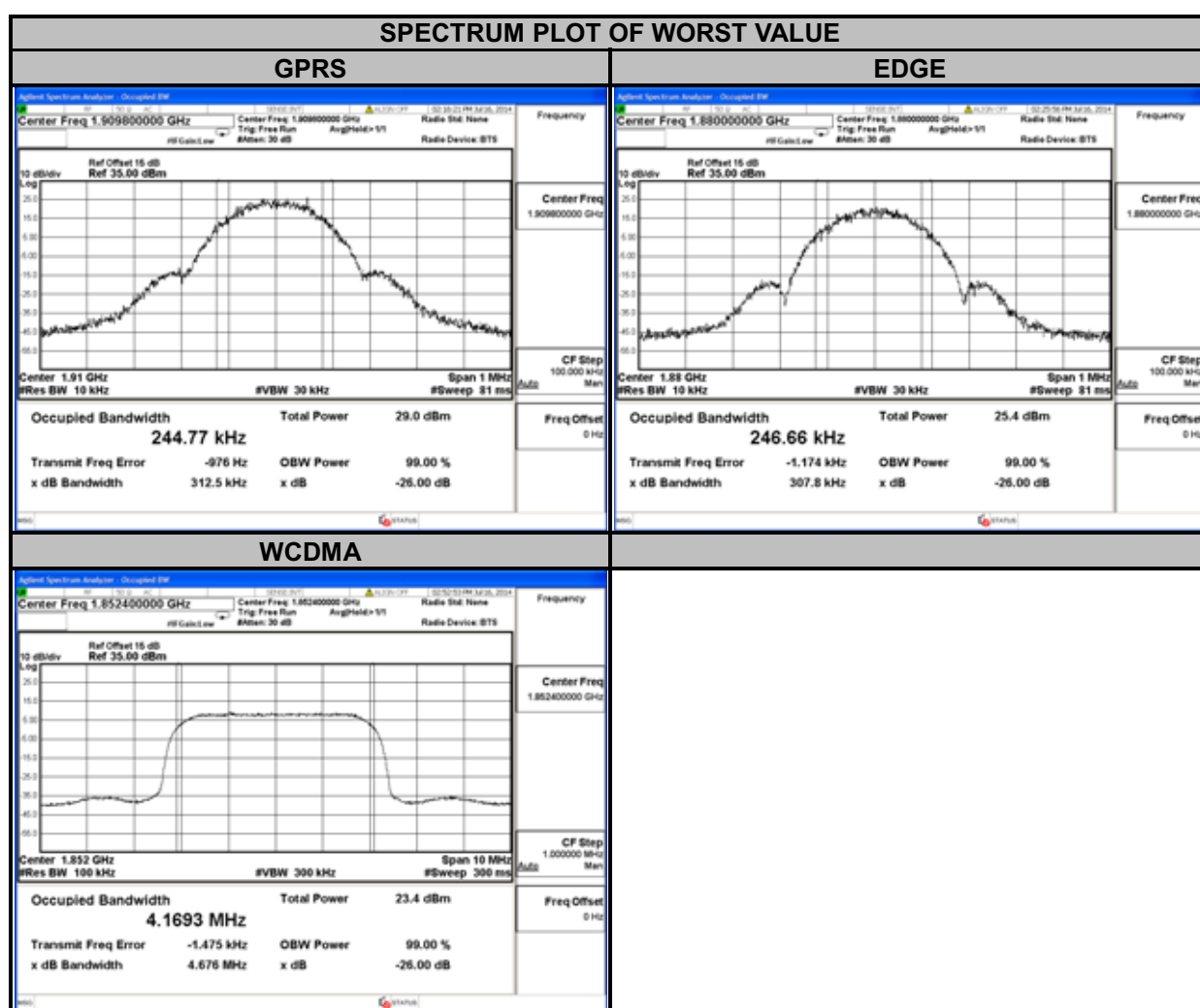
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function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

4.3.2 TEST SETUP

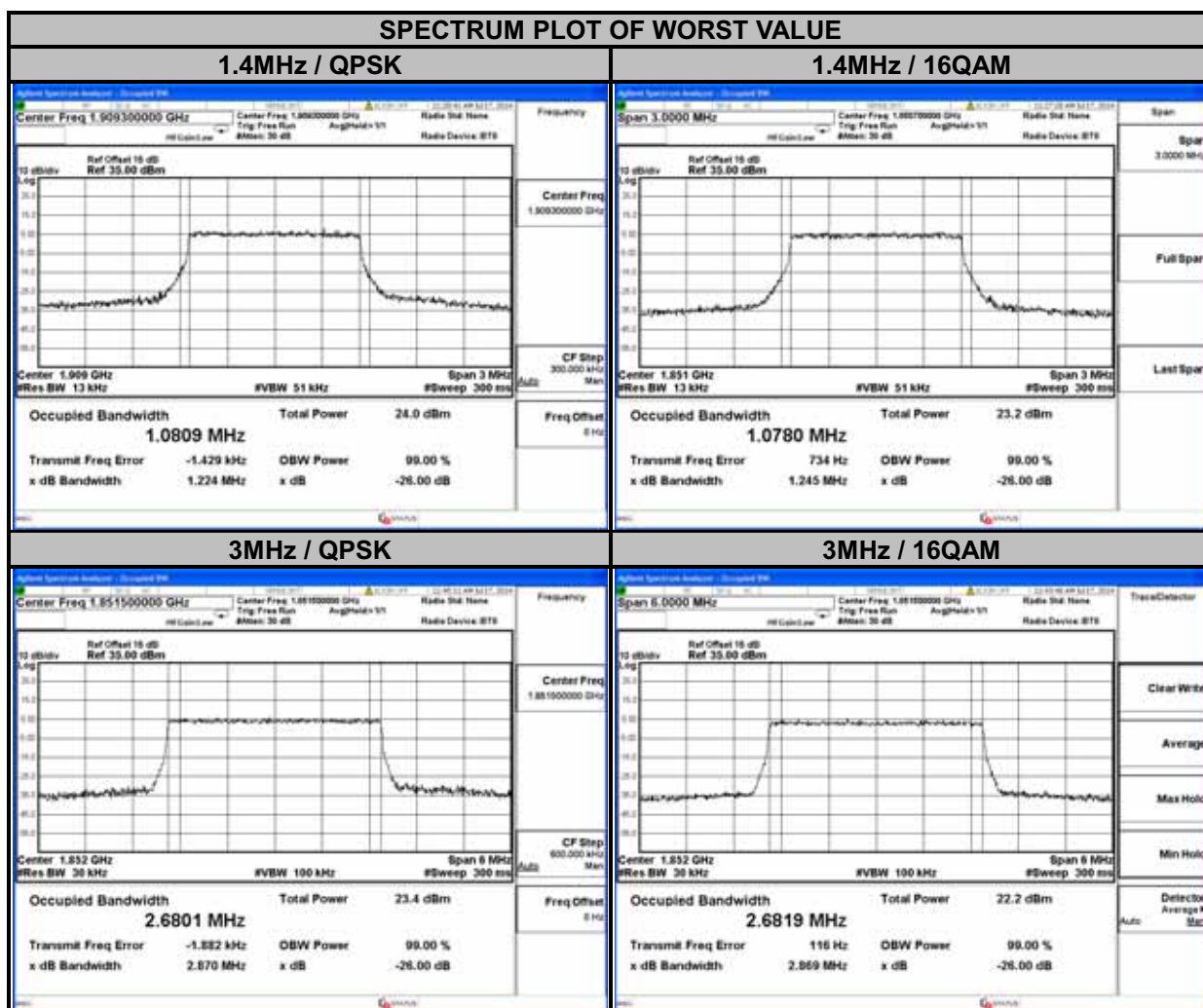


4.3.3 TEST RESULTS

CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (kHz)		CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)
		GPRS	EDGE			WCDMA
512	1850.2	244.73	243.93	9262	1852.4	4.1693
661	1880.0	244.04	246.66	9400	1880.0	4.1657
810	1909.8	244.77	245.50	9538	1907.6	4.1655
CHANNEL	FREQUENCY	26dB BANDWIDTH (kHz)		CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)
		GPRS	EDGE			WCDMA
512	1850.2	314.00	314.00	9262	1852.4	4.676
661	1880.0	310.80	307.80	9400	1880.0	4.678
810	1909.8	312.50	308.20	9538	1907.6	4.685



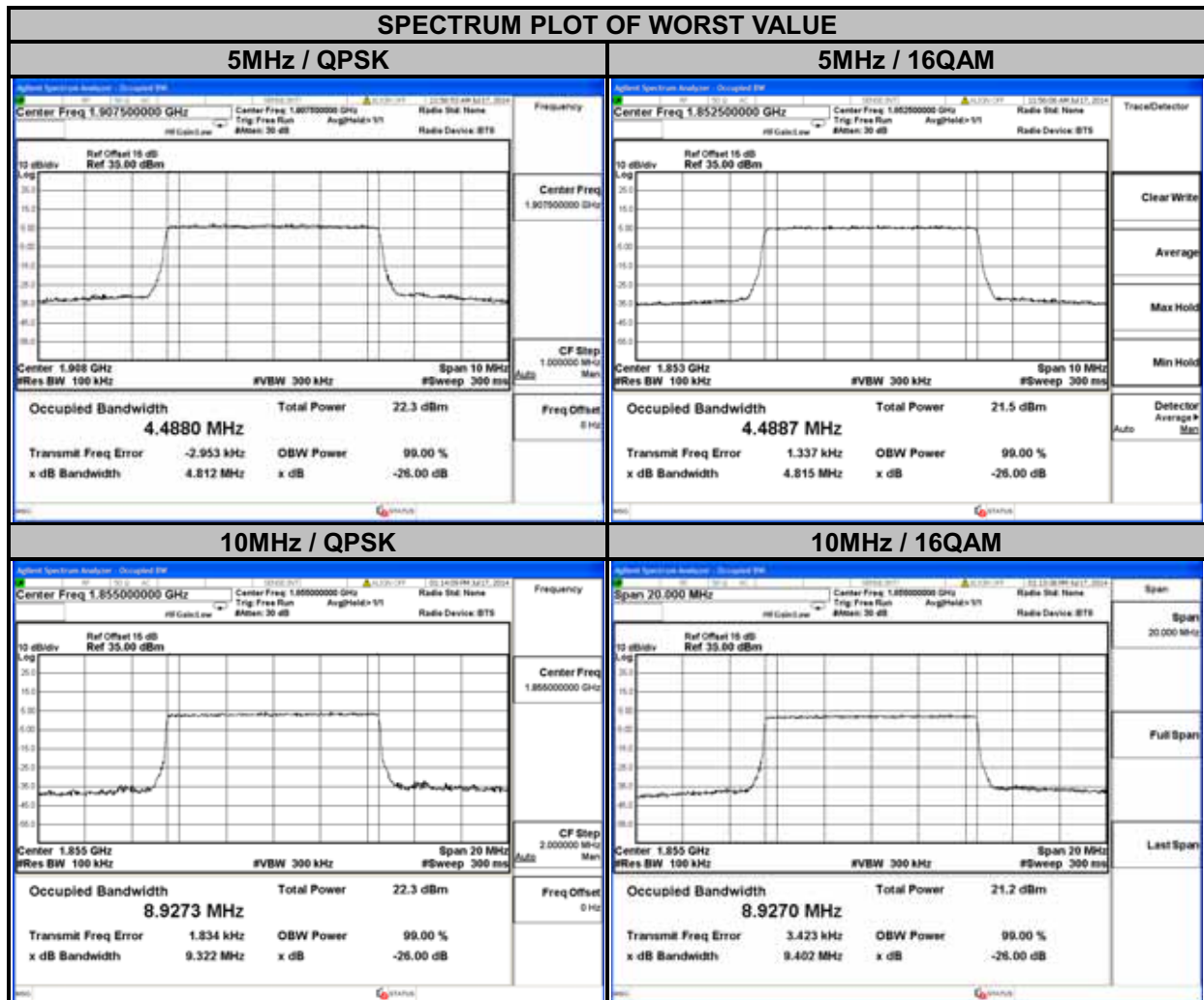
LTE BAND 2							
CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	1.0792	1.0780	18615	1851.5	2.6801	2.6819
18900	1880.0	1.0804	1.0766	18900	1880.0	2.6794	2.6803
19193	1909.3	1.0809	1.0779	19185	1908.5	2.6776	2.6786
CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	1.235	1.245	18615	1851.5	2.870	2.869
18900	1880.0	1.229	1.228	18900	1880.0	2.875	2.887
19193	1909.3	1.224	1.229	19185	1908.5	2.859	2.883



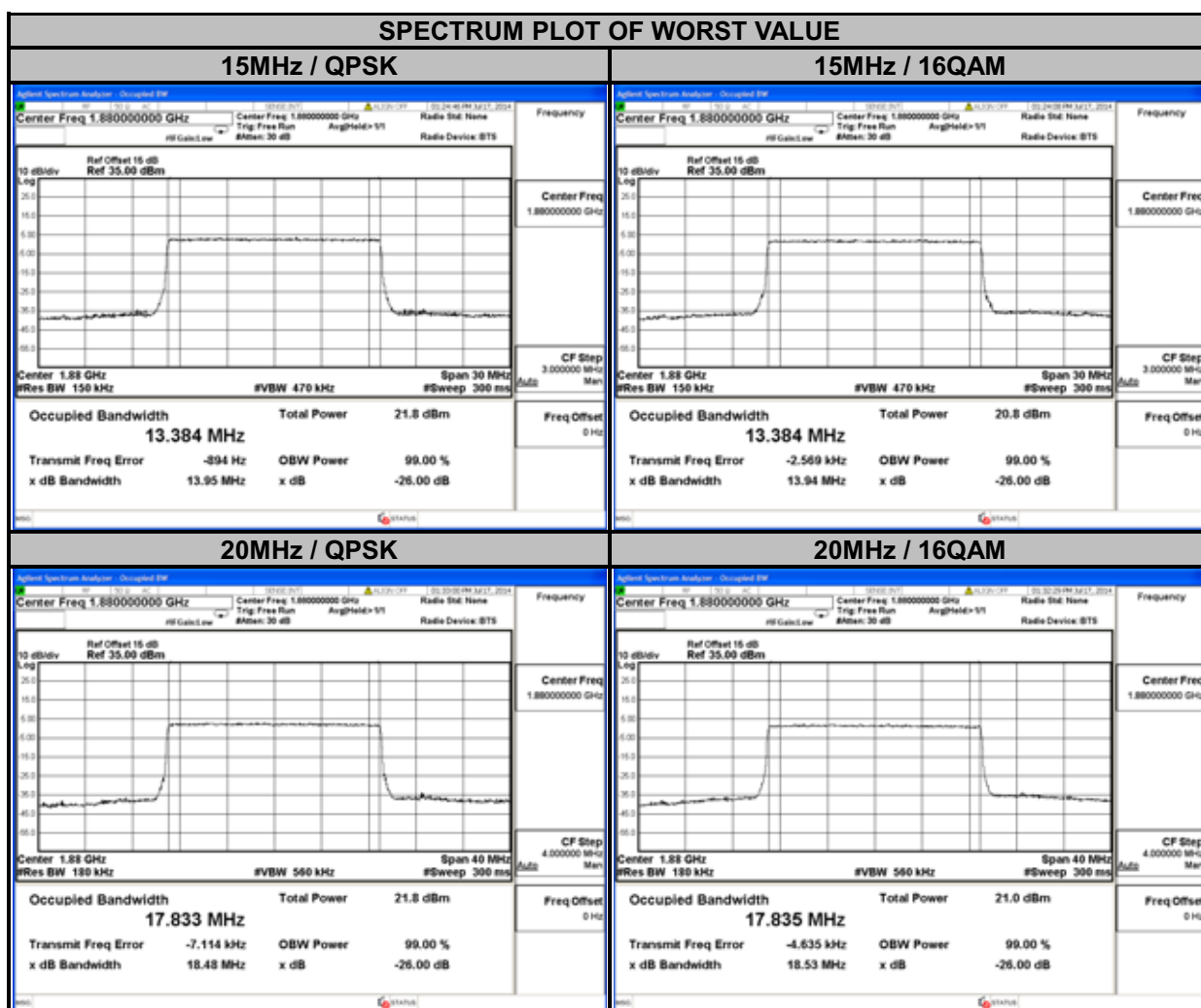


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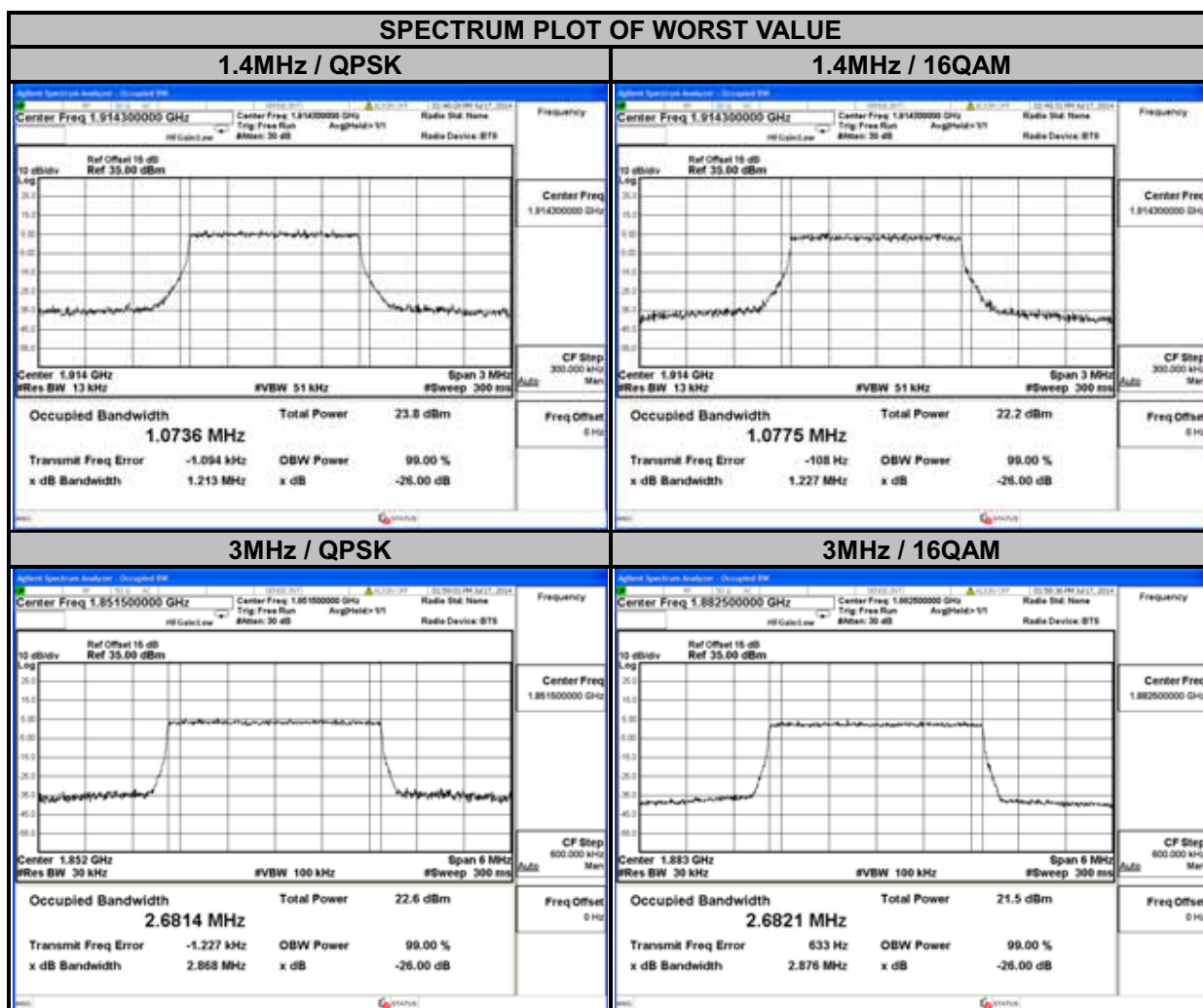
LTE BAND 2							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.4873	4.4887	18650	1855.0	8.9273	8.9270
18900	1880.0	4.4876	4.4848	18900	1880.0	8.9254	8.9186
19175	1907.5	4.4880	4.4878	19150	1905.0	8.9190	8.9183
CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.794	4.815	18650	1855.0	9.322	9.402
18900	1880.0	4.828	4.800	18900	1880.0	9.341	9.396
19175	1907.5	4.812	4.803	19150	1905.0	9.332	9.383



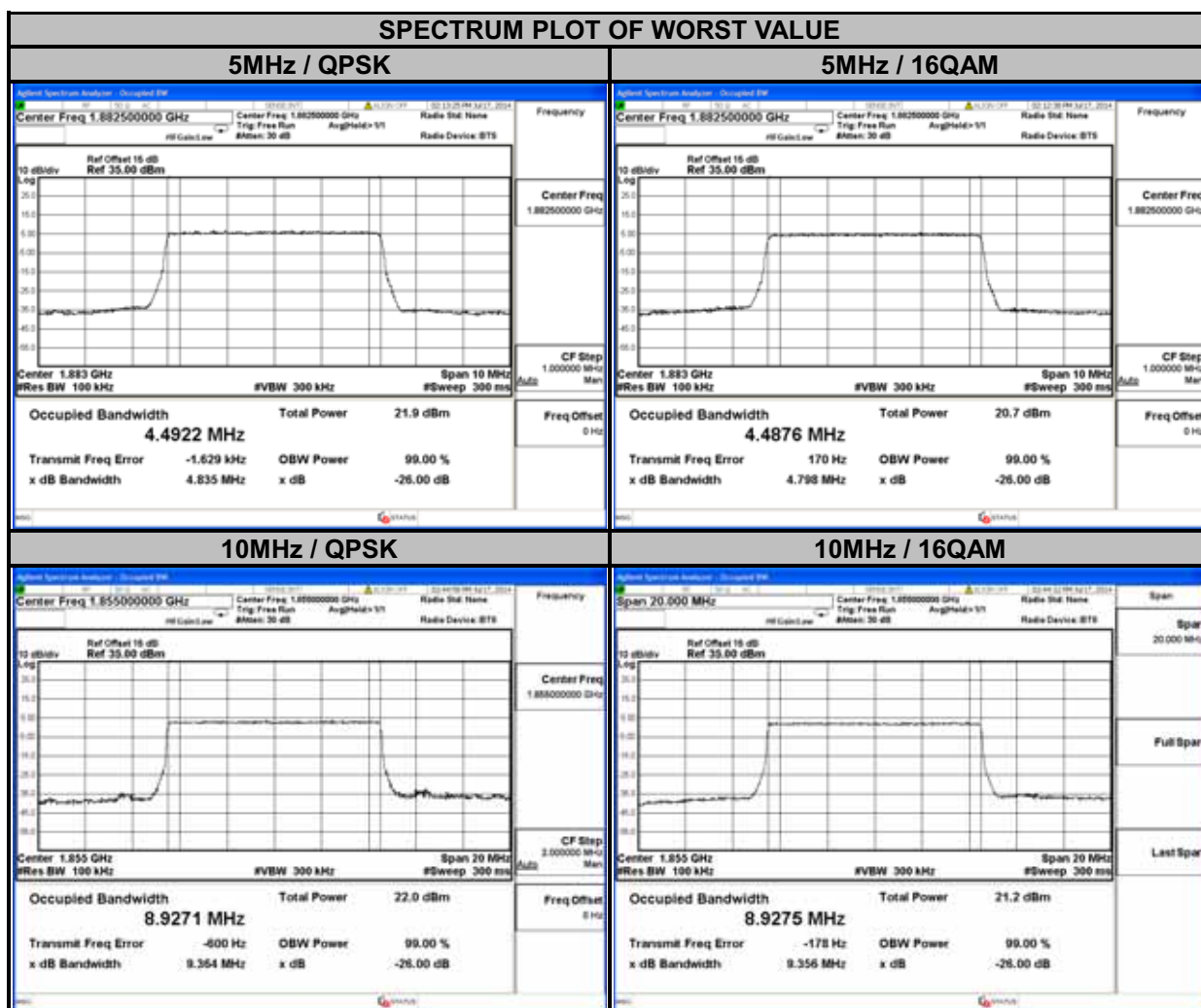
LTE BAND 2							
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	13.370	13.369	18700	1860.0	17.800	17.807
18900	1880.0	13.384	13.384	18900	1880.0	17.833	17.835
19125	1902.5	13.382	13.378	19100	1900.0	17.814	17.810
CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	13.91	14.03	18700	1860.0	18.50	18.49
18900	1880.0	13.95	13.94	18900	1880.0	18.48	18.53
19125	1902.5	13.95	13.97	19100	1900.0	18.51	18.50



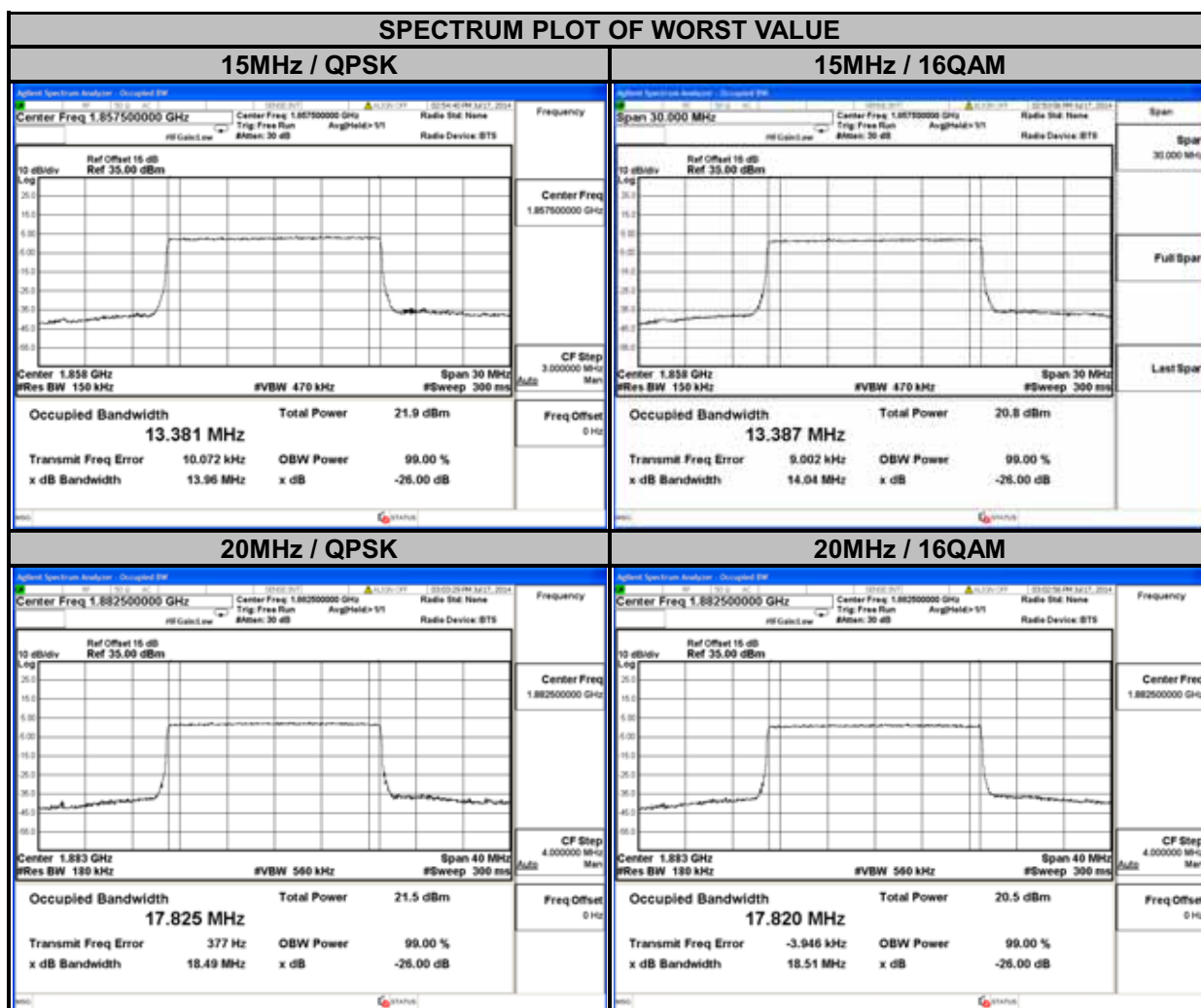
LTE BAND 25							
CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	1.0733	1.0761	26055	1851.5	2.6814	2.6792
26365	1882.5	1.0735	1.0763	26365	1882.5	2.6790	2.6821
26683	1914.3	1.0736	1.0775	26675	1913.5	2.6804	2.6779
CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	1.209	1.229	26055	1851.5	2.868	2.884
26365	1882.5	1.219	1.225	26365	1882.5	2.861	2.876
26683	1914.3	1.214	1.227	26675	1913.5	2.866	2.882



LTE BAND 25							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	4.4897	4.4872	26090	1855.0	8.9271	8.9275
26365	1882.5	4.4922	4.4876	26365	1882.5	8.9243	8.9226
26665	1912.5	4.4847	4.4862	26640	1910.0	8.9084	8.9085
CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	4.834	4.807	26090	1855.0	9.364	9.356
26365	1882.5	4.835	4.798	26365	1882.5	9.342	9.395
26665	1912.5	4.821	4.799	26640	1910.0	9.376	9.336



LTE BAND 25							
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	13.381	13.387	26140	1860	17.813	17.813
26365	1882.5	13.381	13.386	26365	1882.5	17.825	17.820
26615	1907.5	13.363	13.358	26590	1905	17.808	17.809
CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	13.96	14.04	26140	1860	18.51	18.48
26365	1882.5	13.96	13.93	26365	1882.5	18.49	18.51
26615	1907.5	13.95	13.92	26590	1905	18.55	18.51

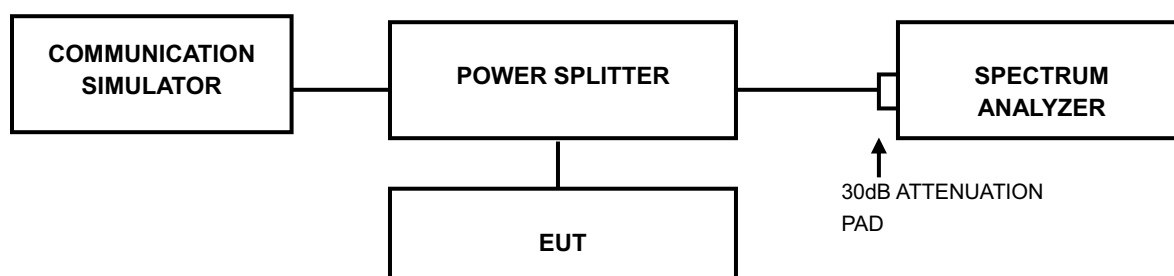


4.4 PEAK TO AVERAGE RATIO

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

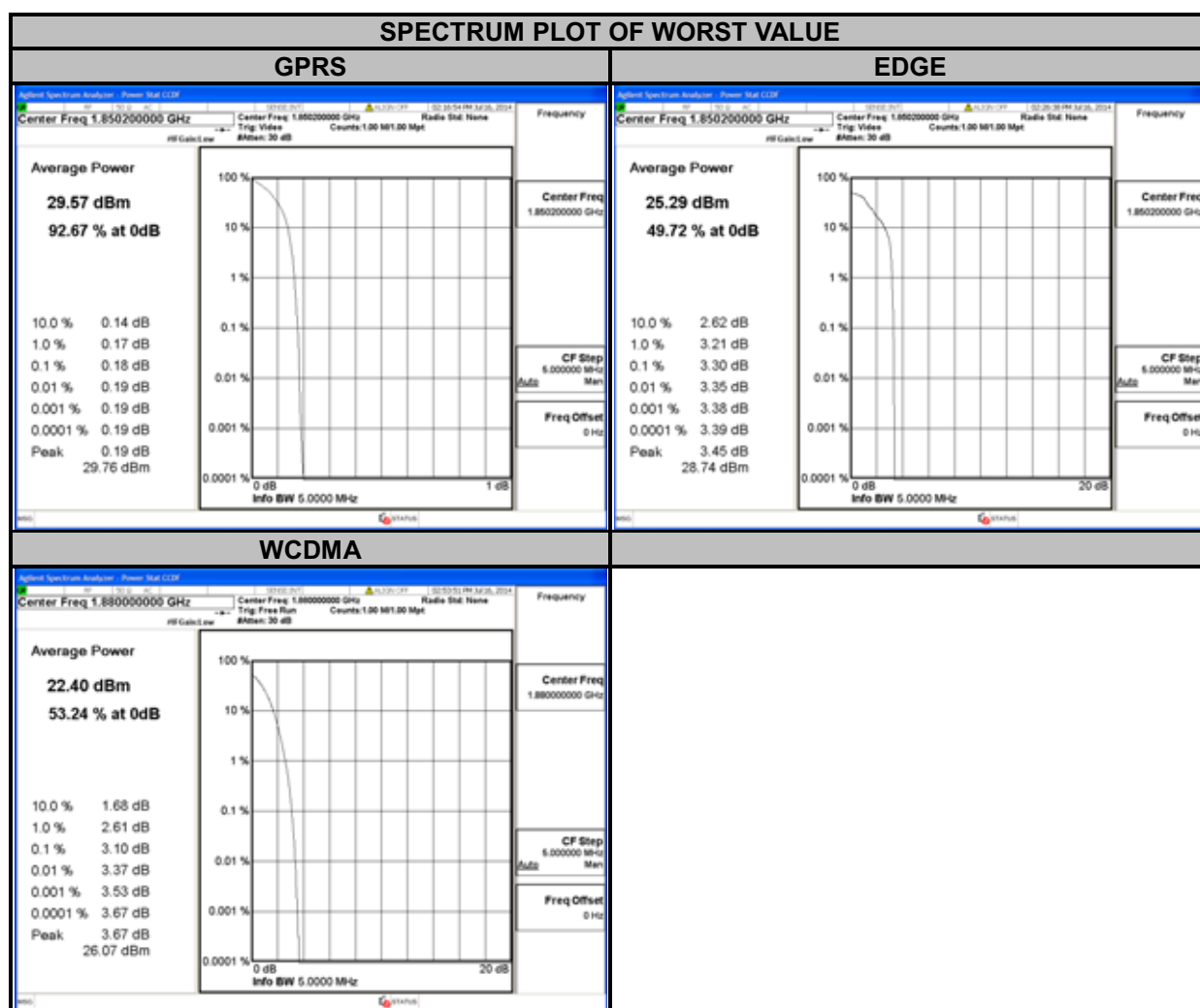


4.4.3 TEST PROCEDURES

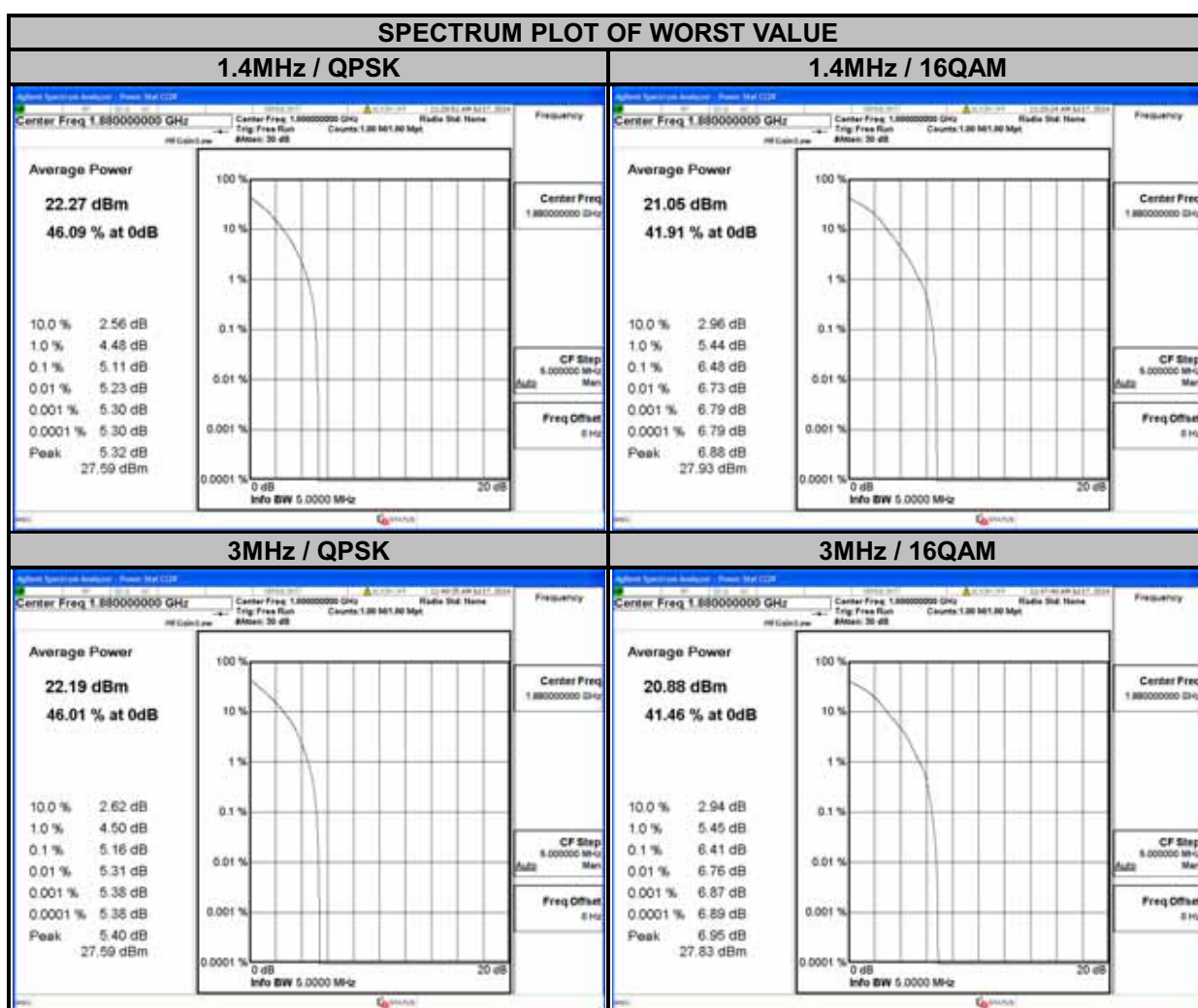
1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

4.4.4 TEST RESULTS

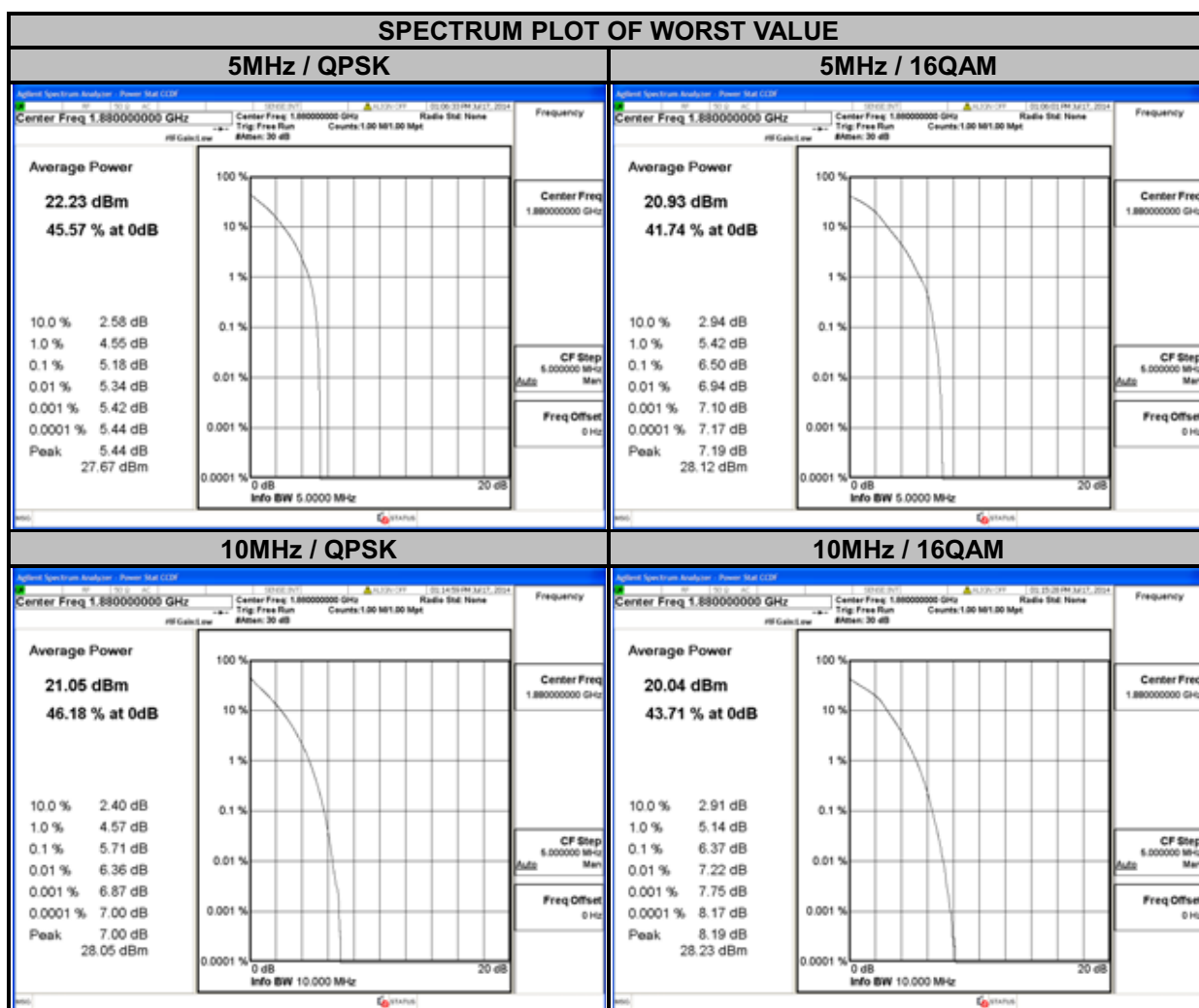
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
		GPRS	EDGE			WCDMA
512	1850.2	0.18	3.30	9262	1852.4	3.07
661	1880.0	0.17	3.29	9400	1880.0	3.10
810	1909.8	0.17	3.28	9538	1907.6	2.96



LTE BAND 2							
CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	4.60	5.84	18615	1851.5	4.65	5.92
18900	1880.0	5.11	6.48	18900	1880.0	5.16	6.41
19193	1909.3	4.17	5.42	19185	1908.5	4.37	5.59



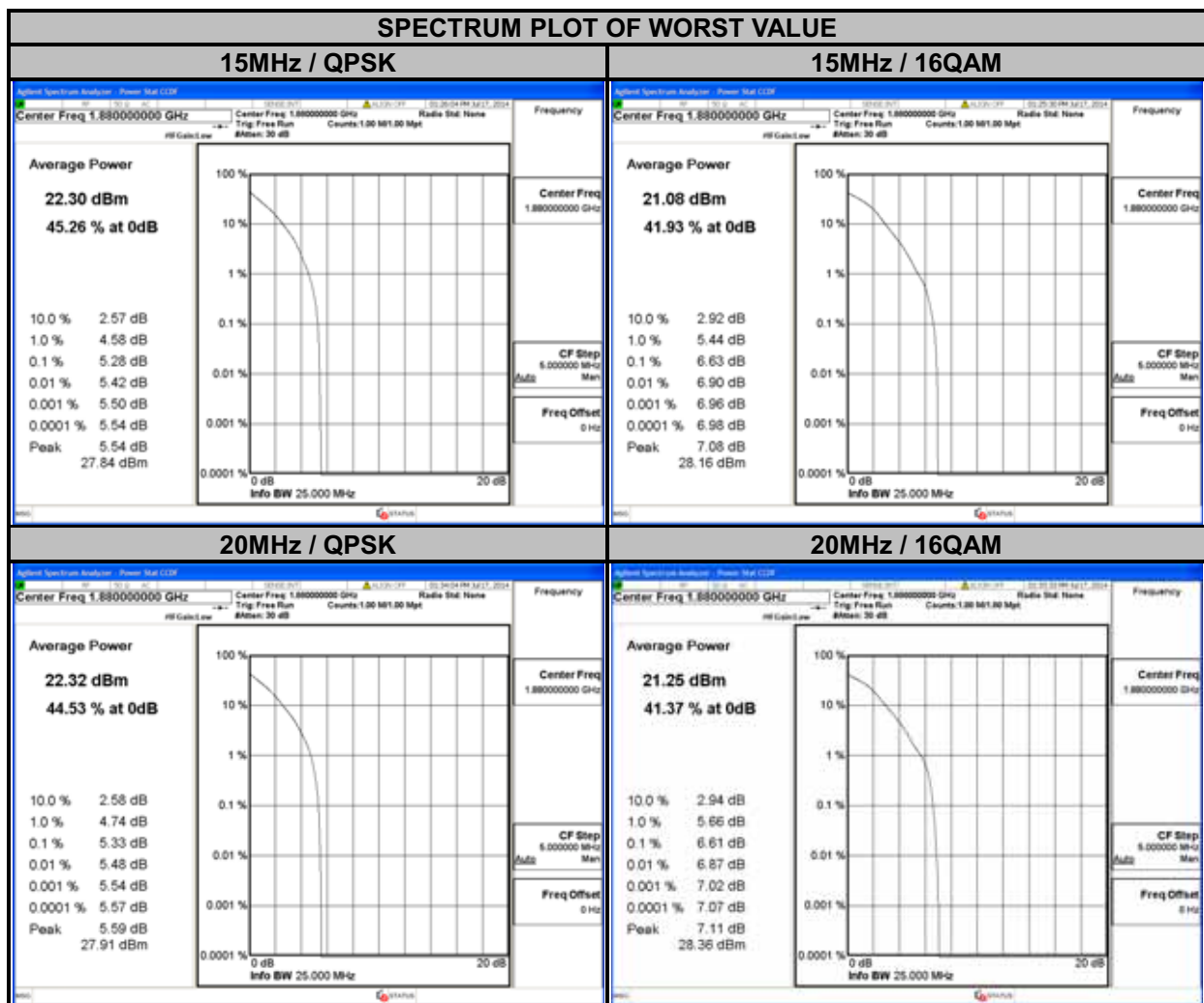
LTE BAND 2							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.66	6.00	18650	1855.0	5.64	6.31
18900	1880.0	5.18	6.50	18900	1880.0	5.71	6.37
19175	1907.5	4.51	5.75	19150	1905.0	5.50	6.23



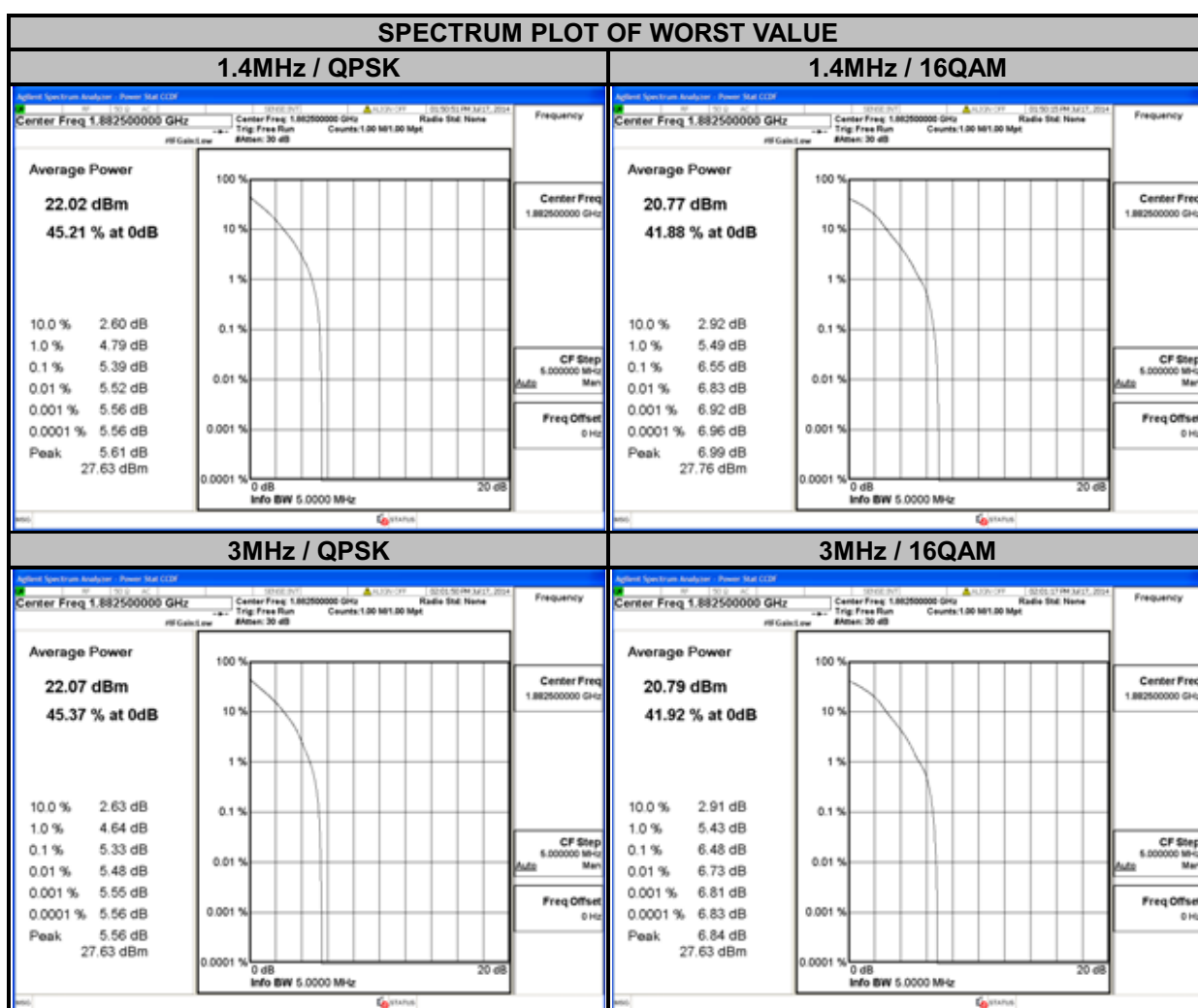


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LTE BAND 2							
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	4.60	5.89	18700	1860.0	4.60	5.84
18900	1880.0	5.28	6.63	18900	1880.0	5.33	6.61
19125	1902.5	5.08	6.22	19100	1900.0	5.09	6.37



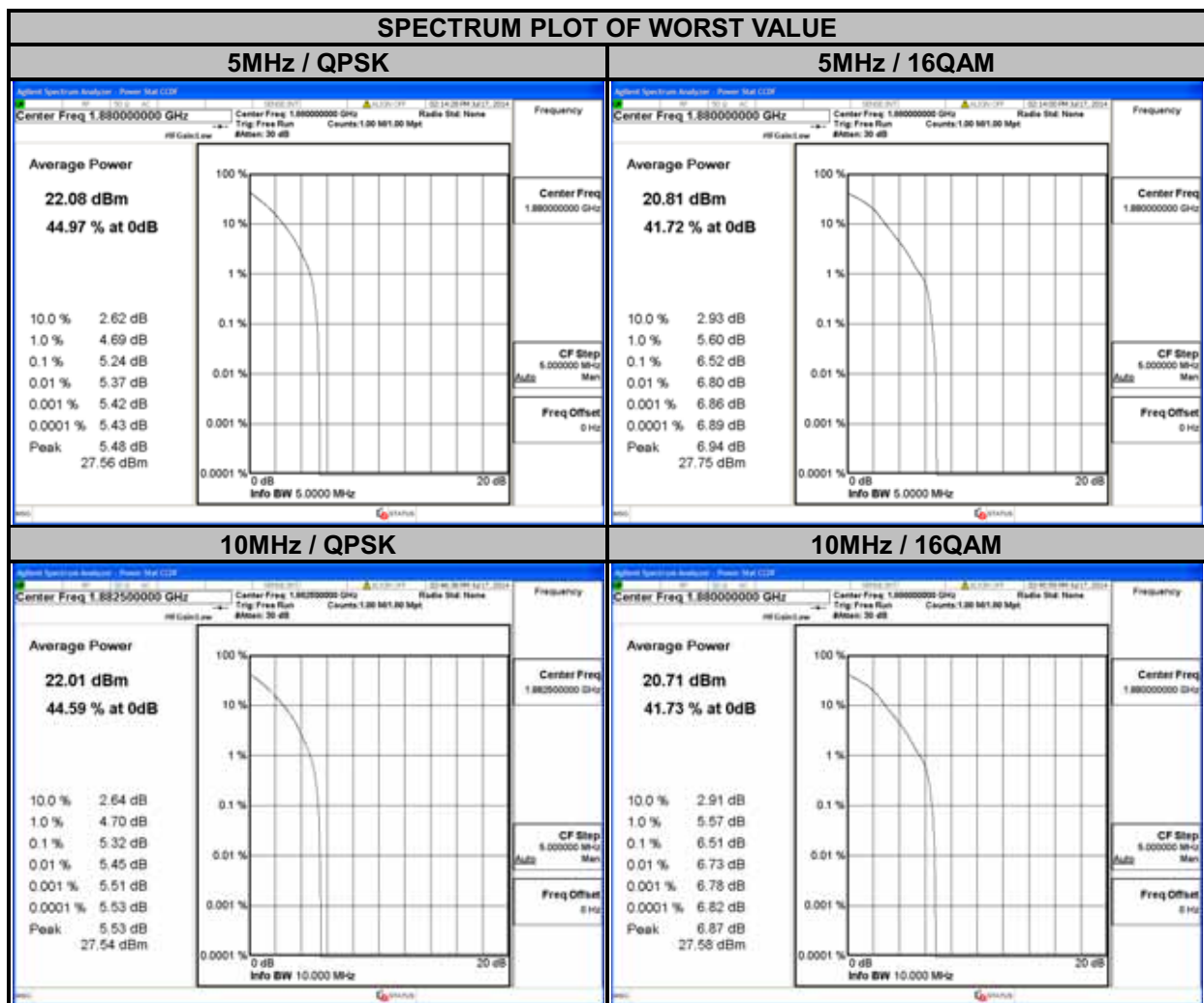
LTE BAND 25							
CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	4.18	5.23	26055	1851.5	4.18	5.34
26365	1882.5	5.39	6.55	26365	1882.5	5.33	6.48
26683	1914.3	4.51	5.69	26675	1913.5	4.60	5.88



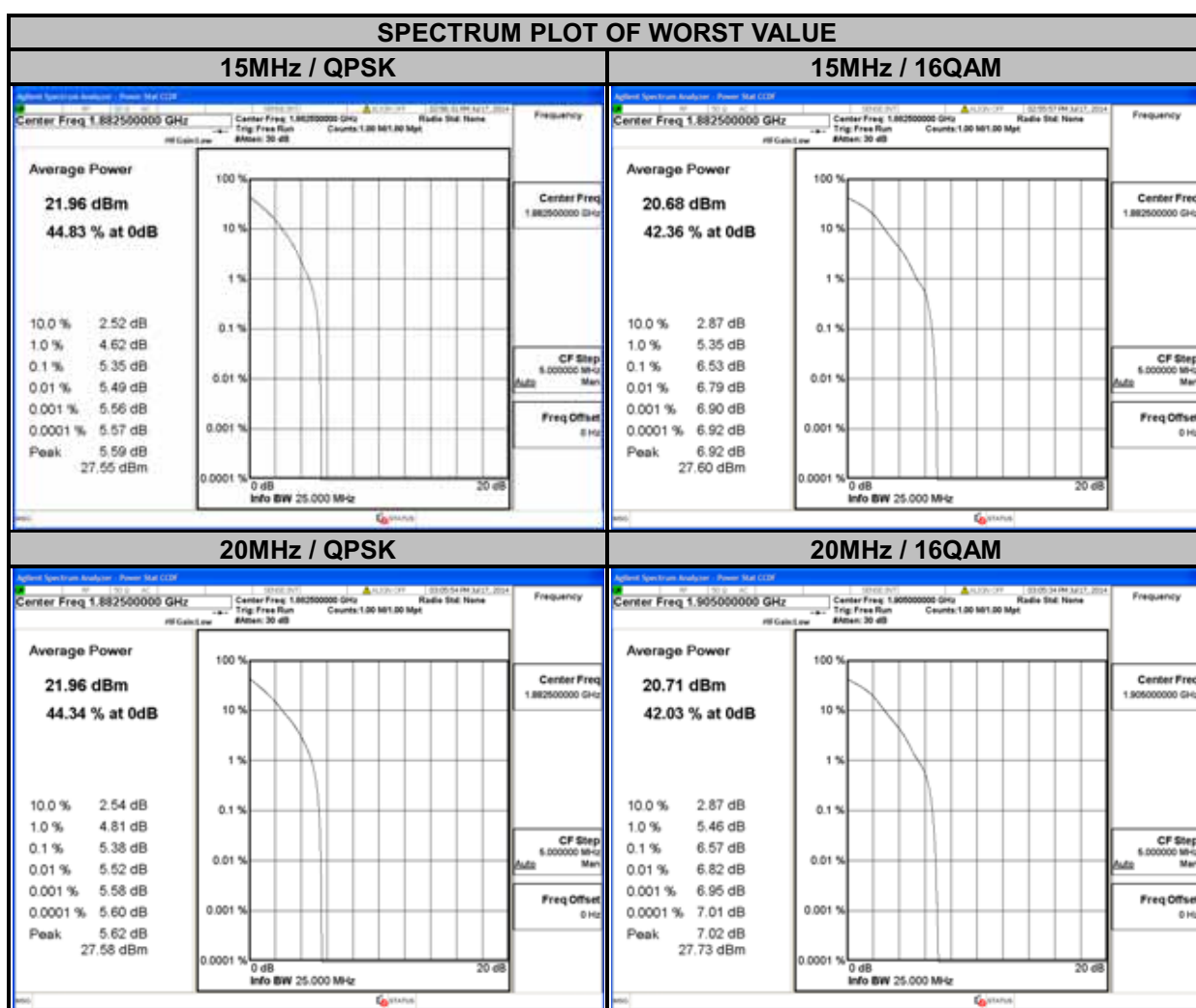


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LTE BAND 25							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	4.20	5.26	26090	1855.0	4.23	5.39
26365	1882.5	5.24	6.52	26365	1882.5	5.32	6.51
26665	1912.5	4.79	6.05	26640	1910.0	5.15	6.38



LTE BAND 25							
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	4.30	5.35	26140	1860.0	4.38	5.58
26365	1882.5	5.35	6.53	26365	1882.5	5.38	6.50
26615	1907.5	5.16	6.46	26590	1905.0	5.36	6.57

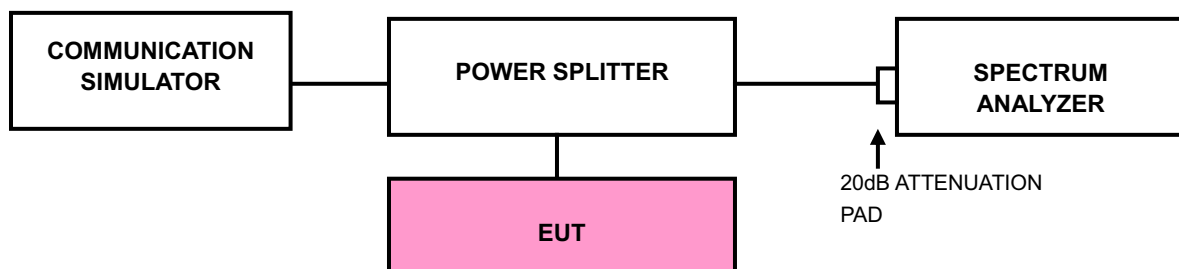


4.5 BAND EDGE MEASUREMENT

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.

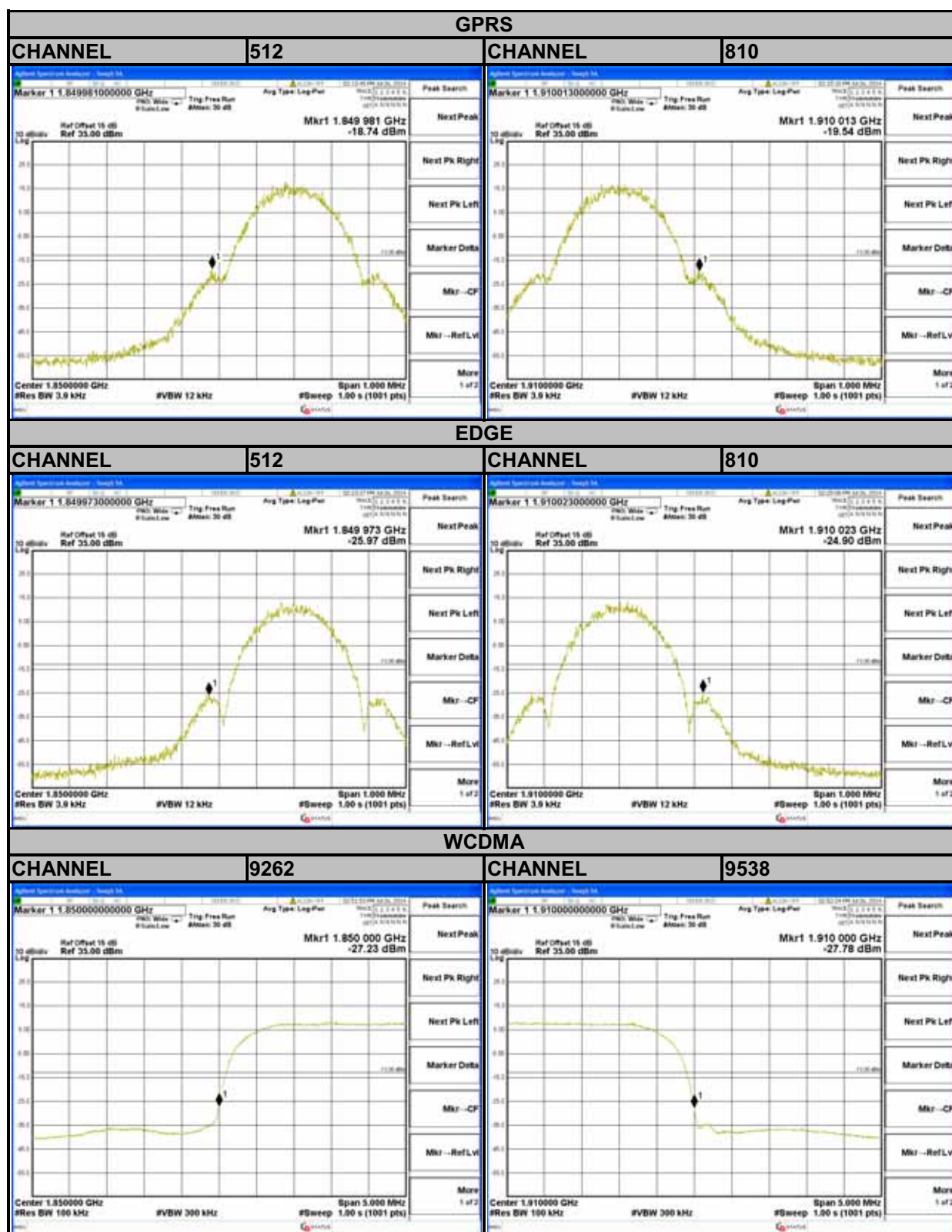
4.5.2 TEST SETUP

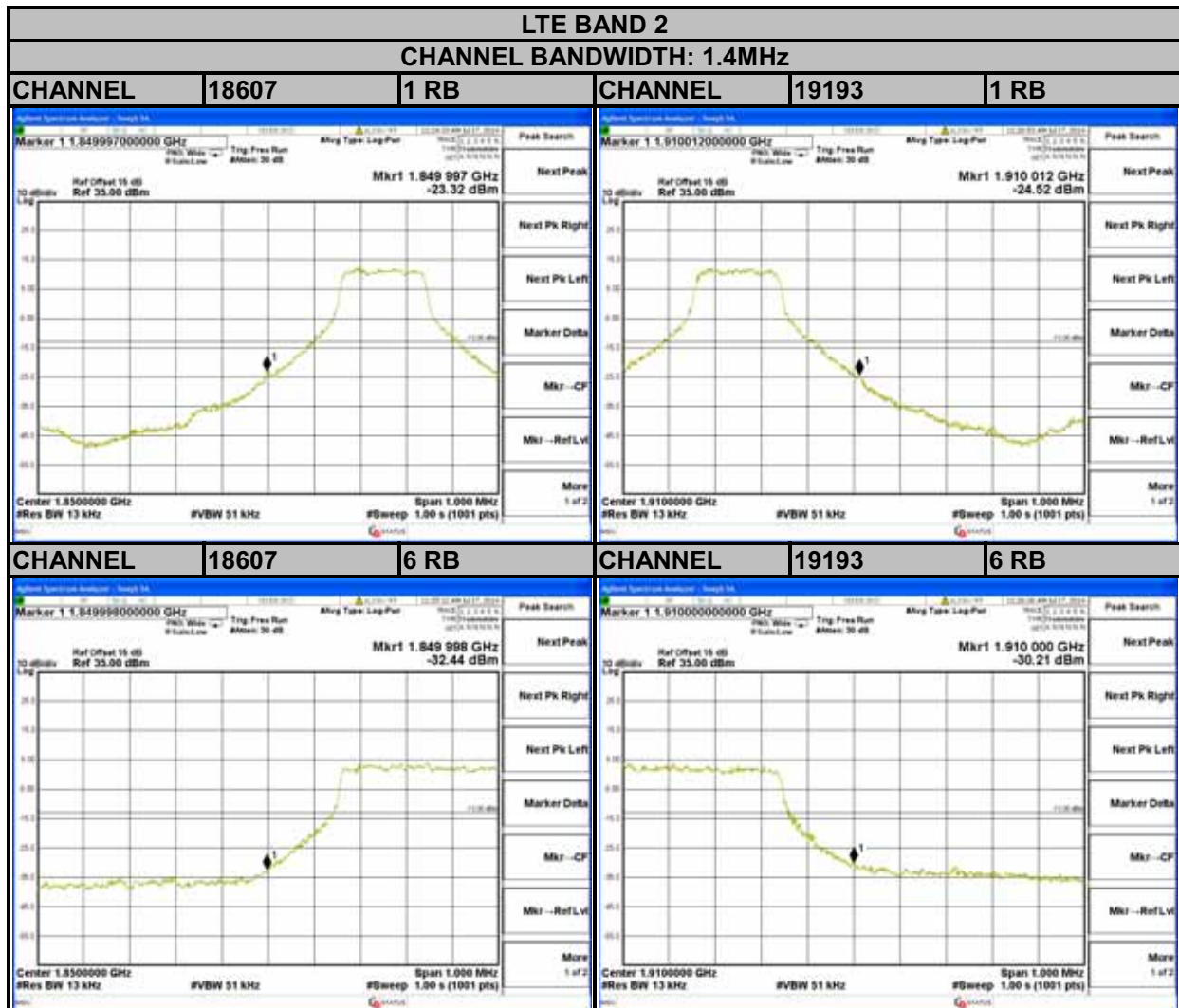


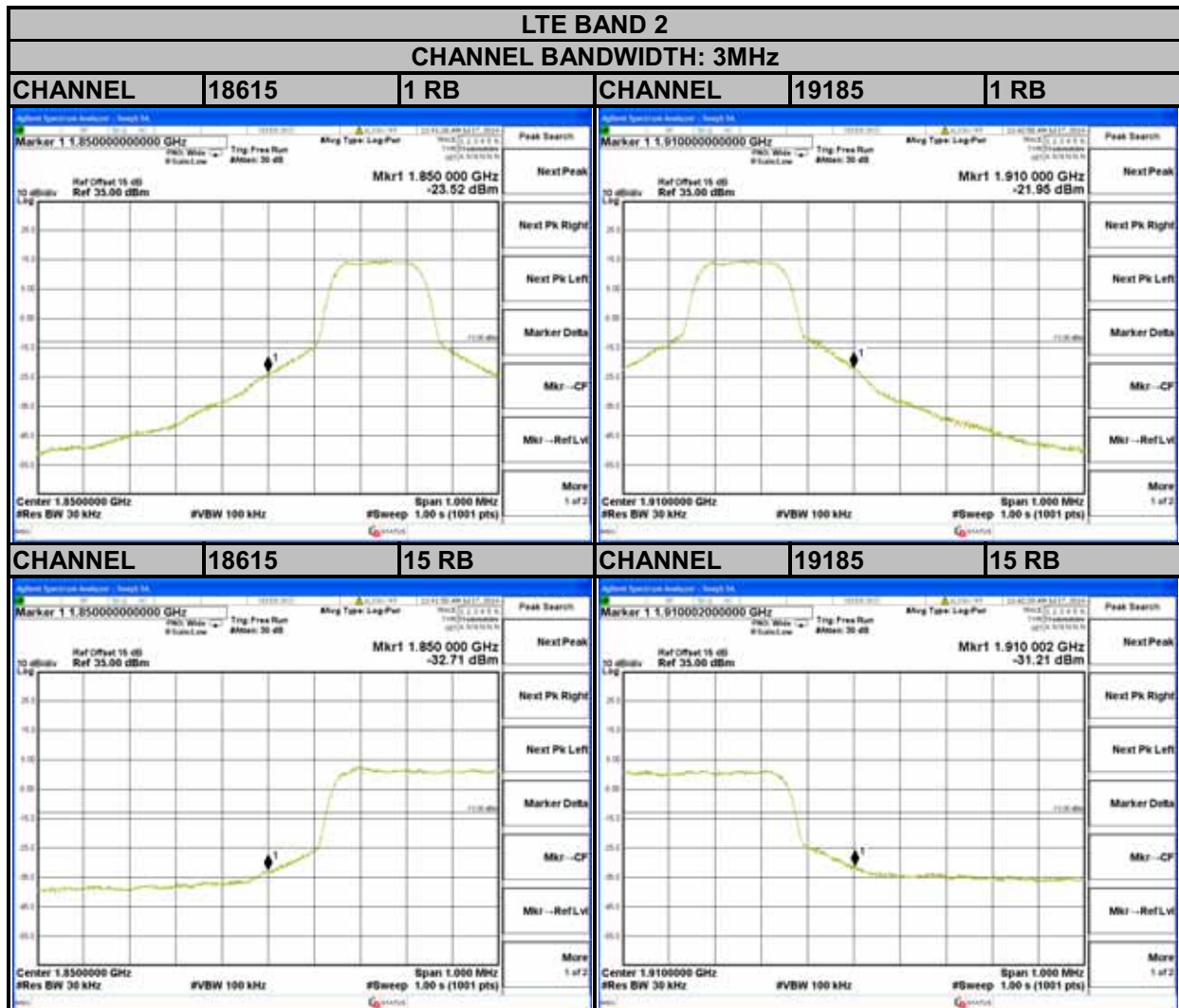
4.5.3 TEST PROCEDURES

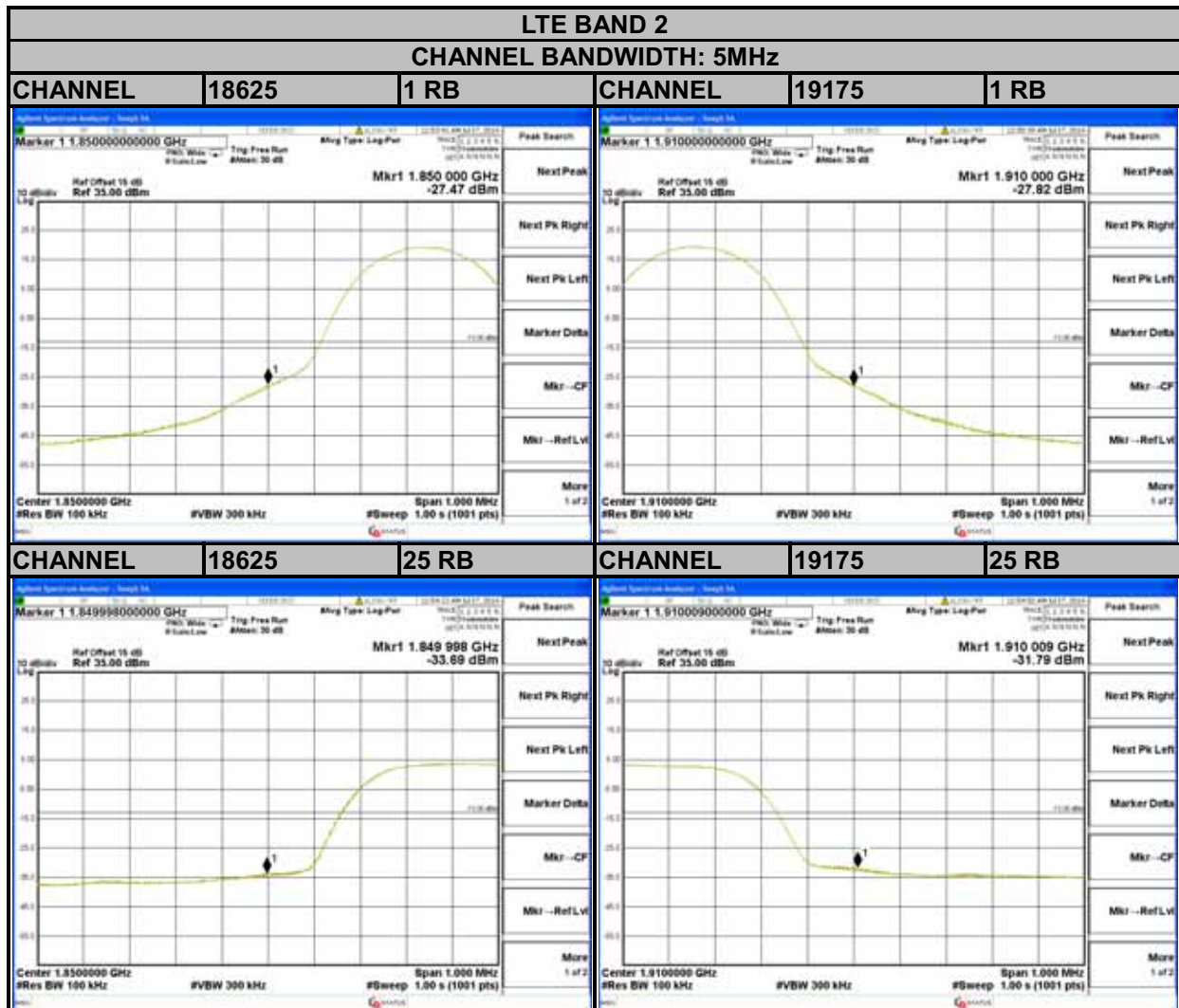
- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 3.9kHz and VB of the spectrum is 12kHz (GPRS / EDGE).
- The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA / LTE Band 2 Bandwidth 5MHz/10MHz / LTE Band 25 Bandwidth 5MHz/10MHz).
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (LTE Band 2 Bandwidth 1.4MHz / LTE Band 25 Bandwidth 1.4MHz).
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Band 2 Bandwidth 3MHz / LTE Band 25 Bandwidth 3MHz).
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 150kHz and VB of the spectrum is 470kHz (LTE Band 2 Bandwidth 15MHz / LTE Band 25 Bandwidth 15MHz).
- The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 180kHz and VB of the spectrum is 560kHz (LTE Band 2 Bandwidth 20MHz / LTE Band 25 Bandwidth 20MHz).
- Record the max trace plot into the test report.

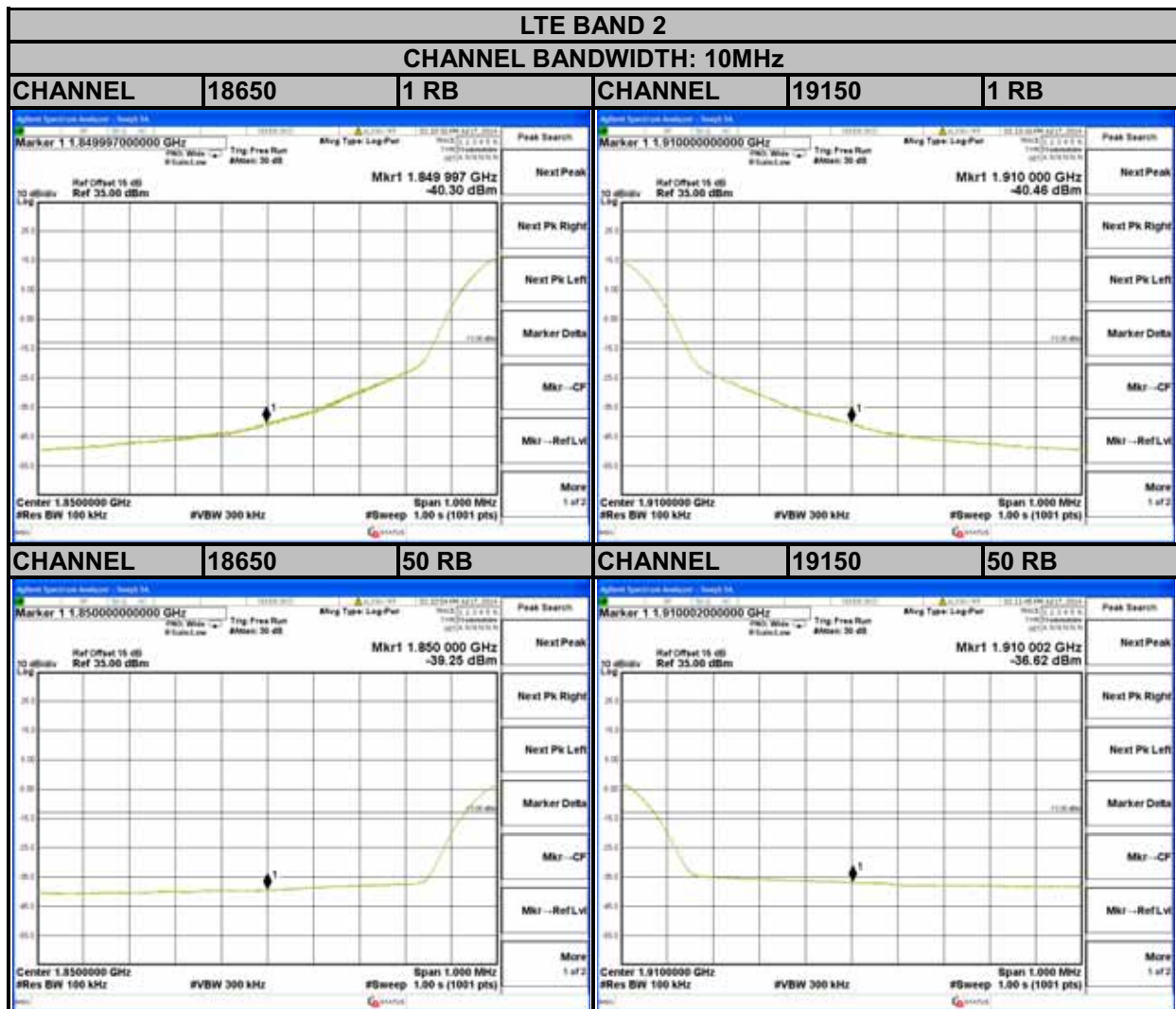
4.5.4 TEST RESULTS

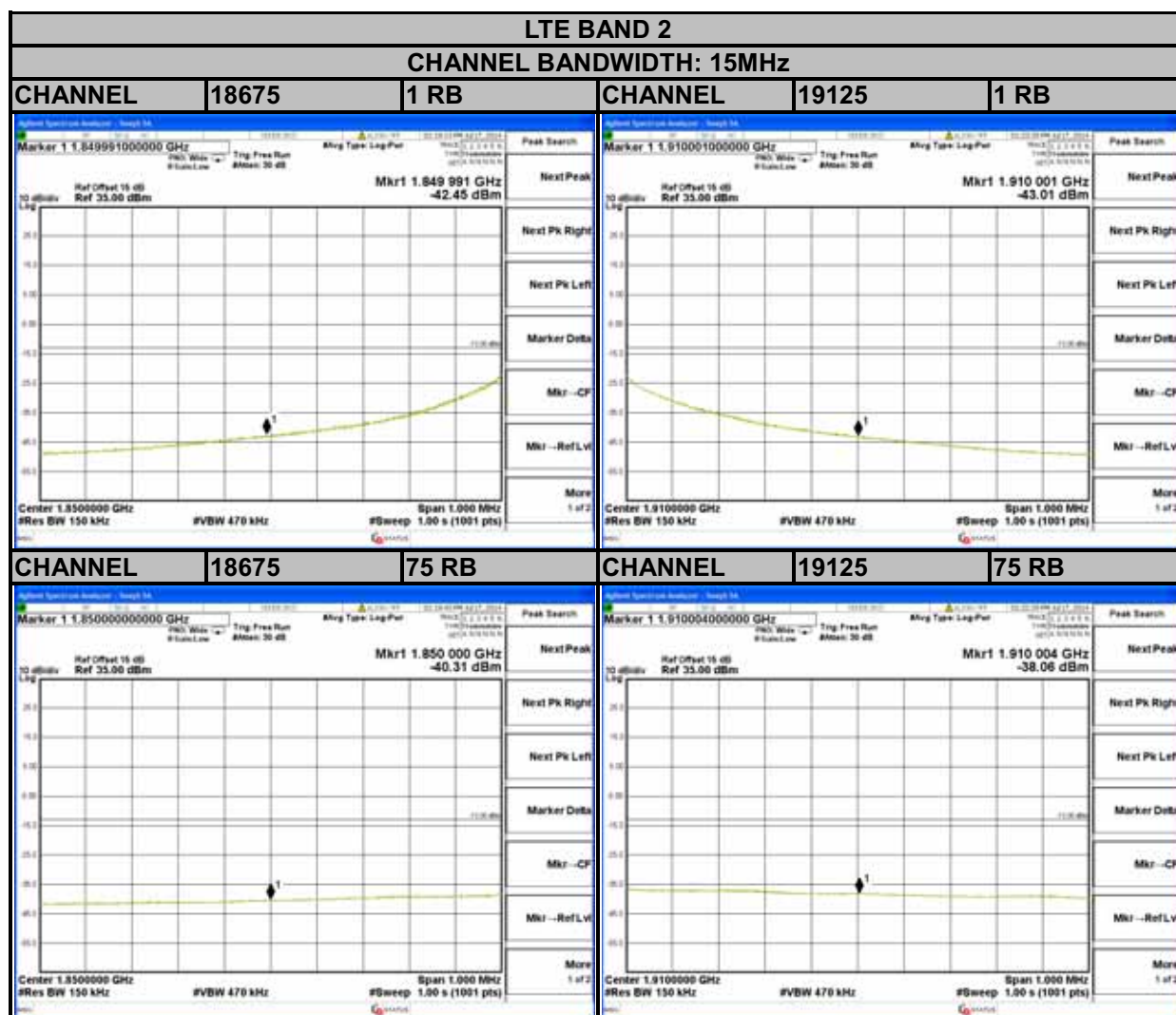


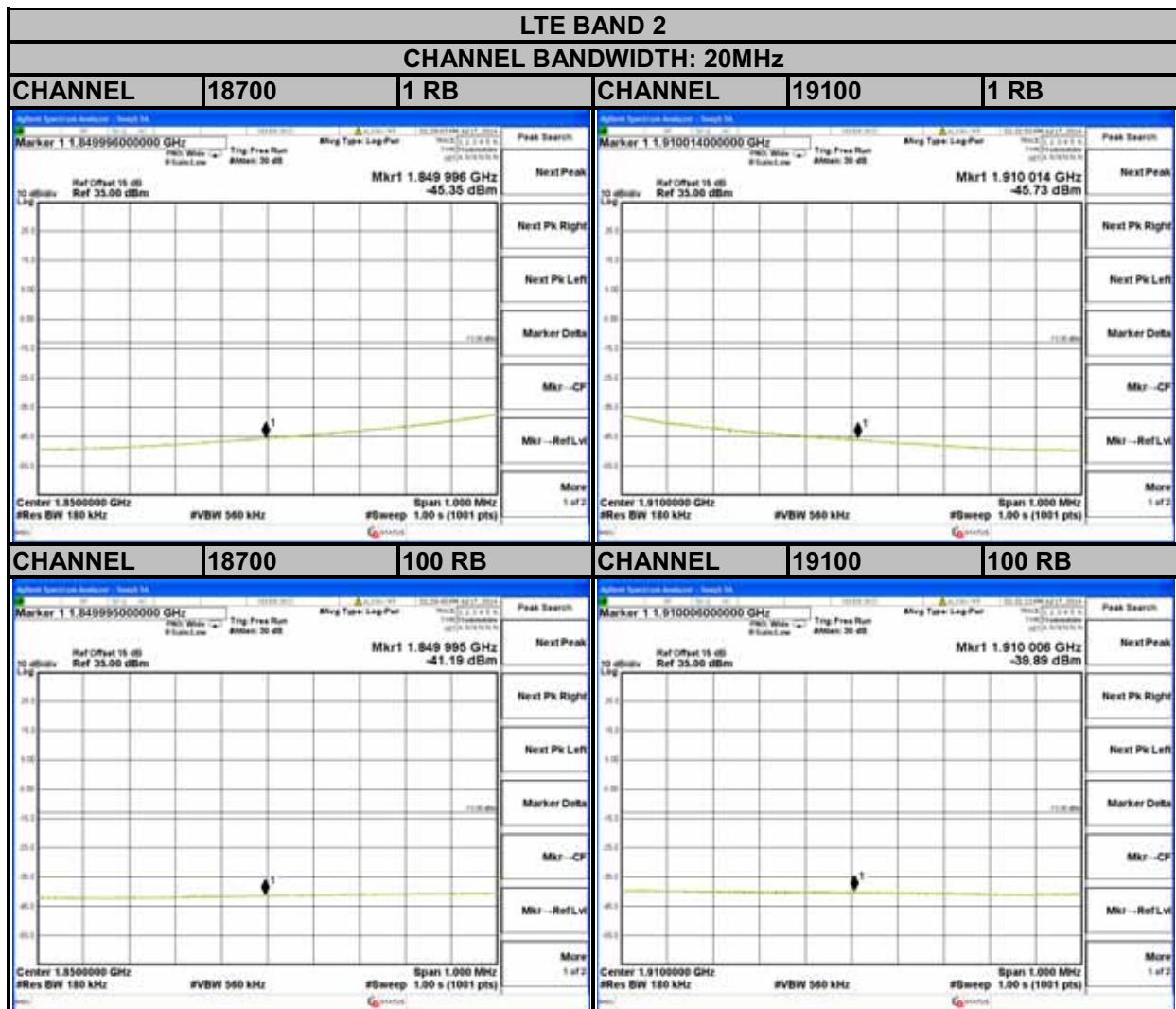


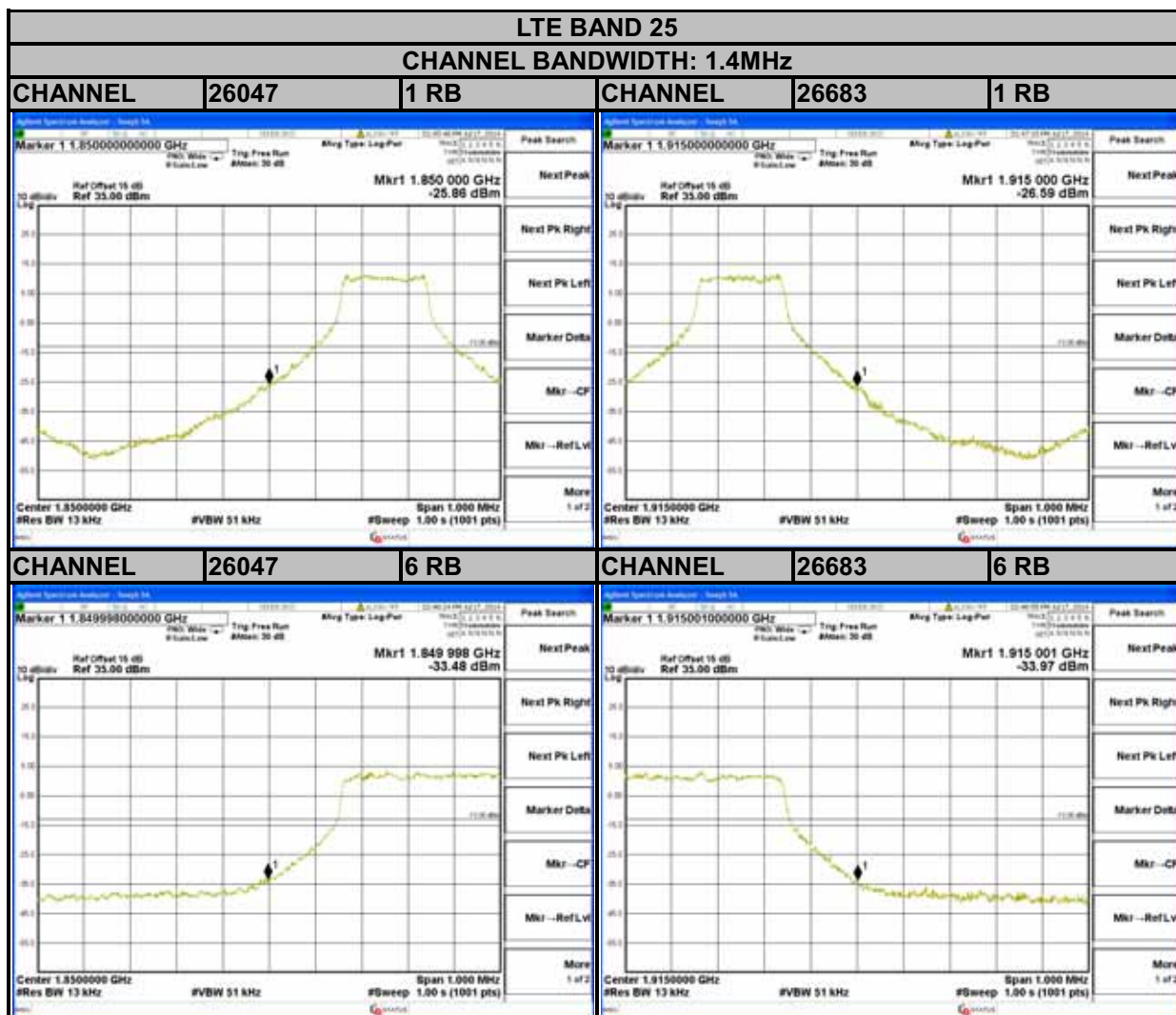


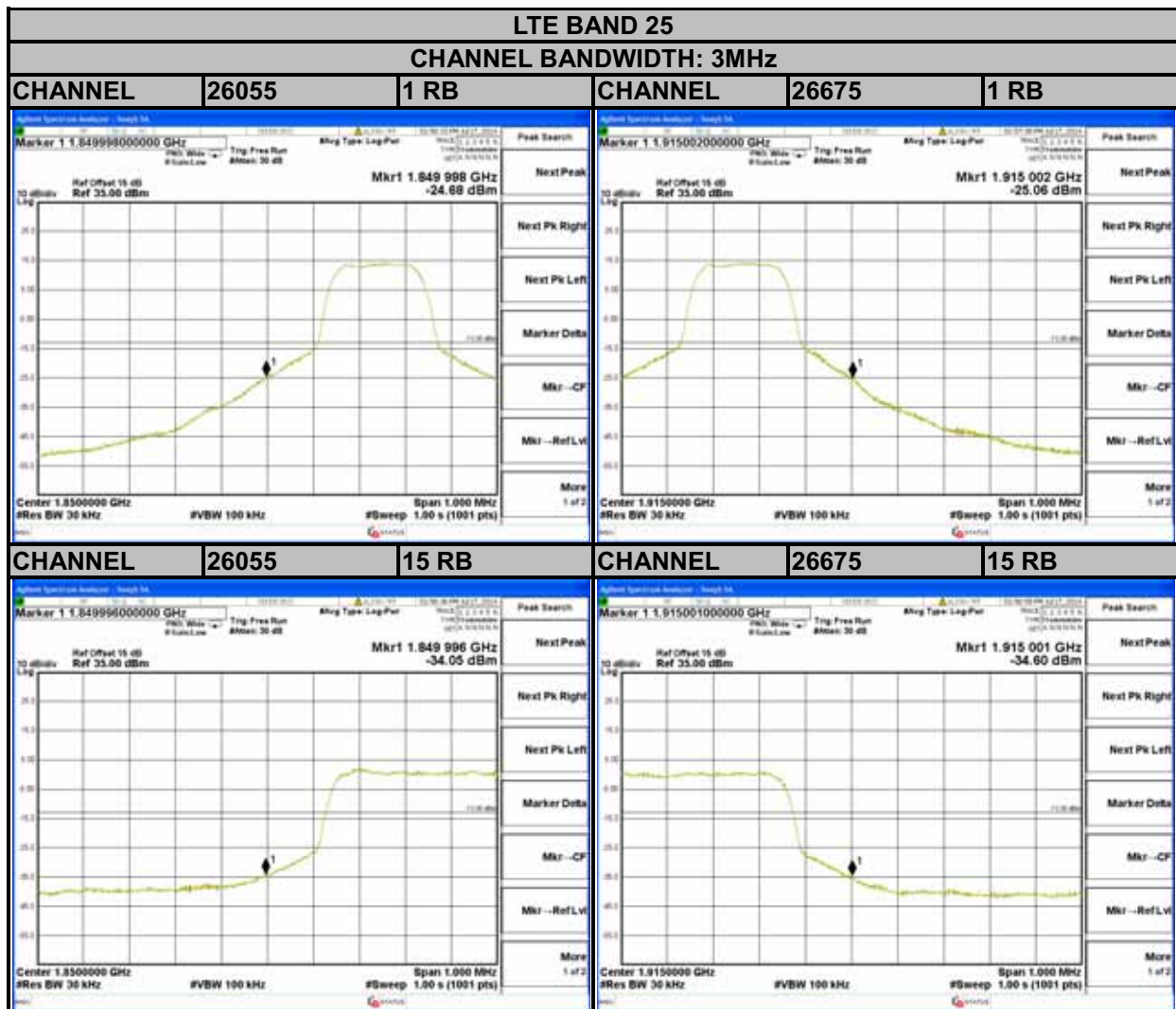


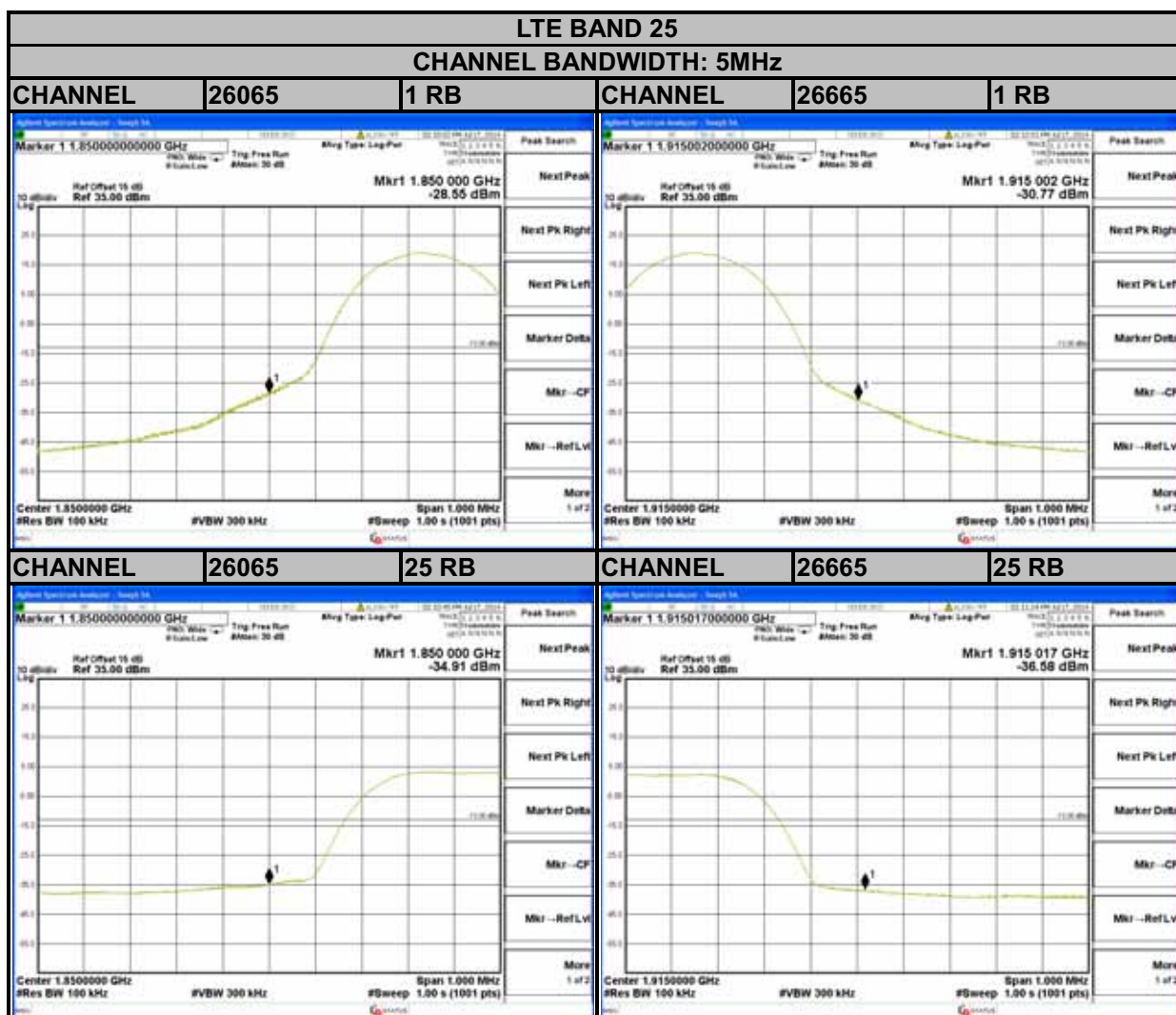


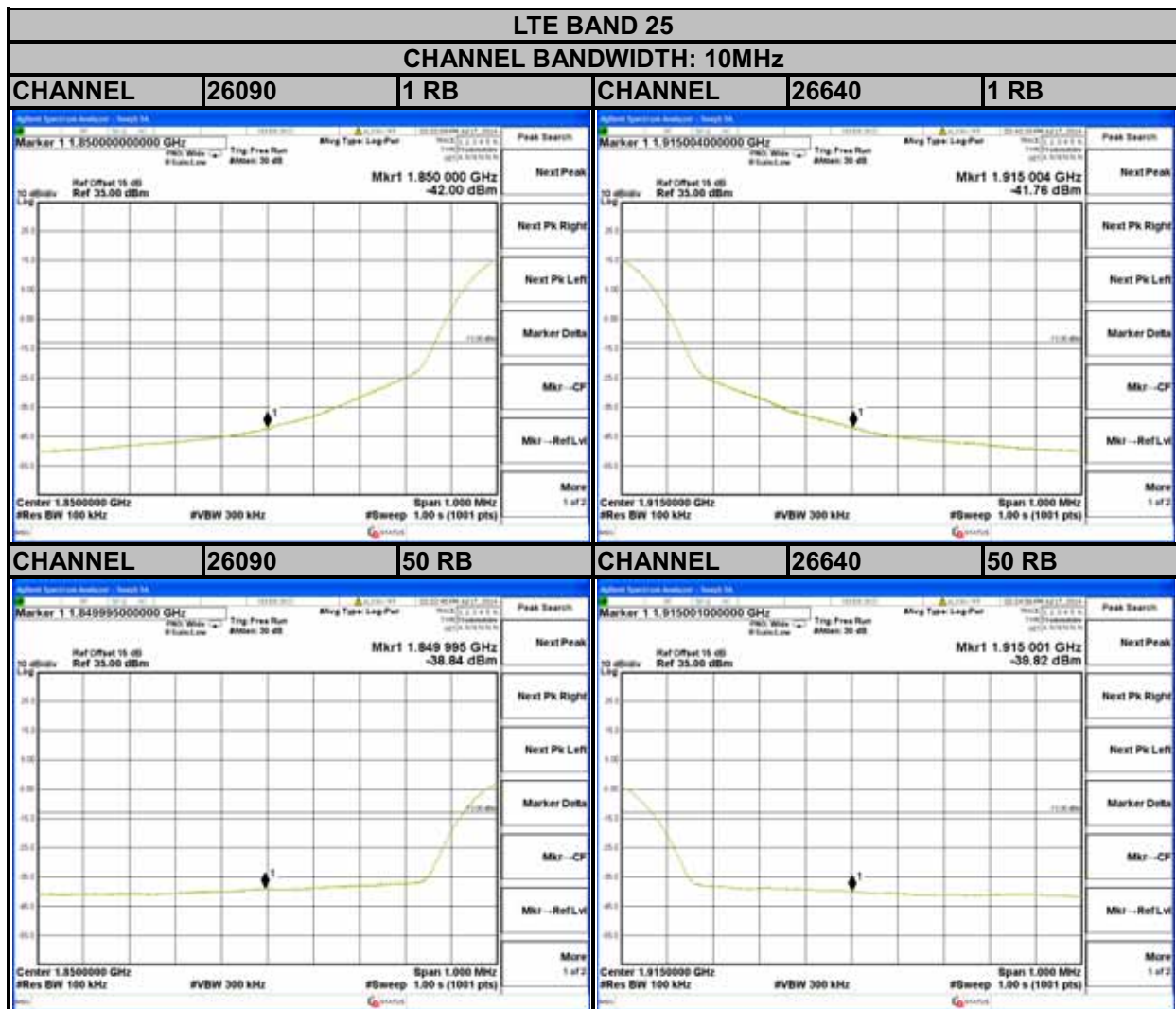


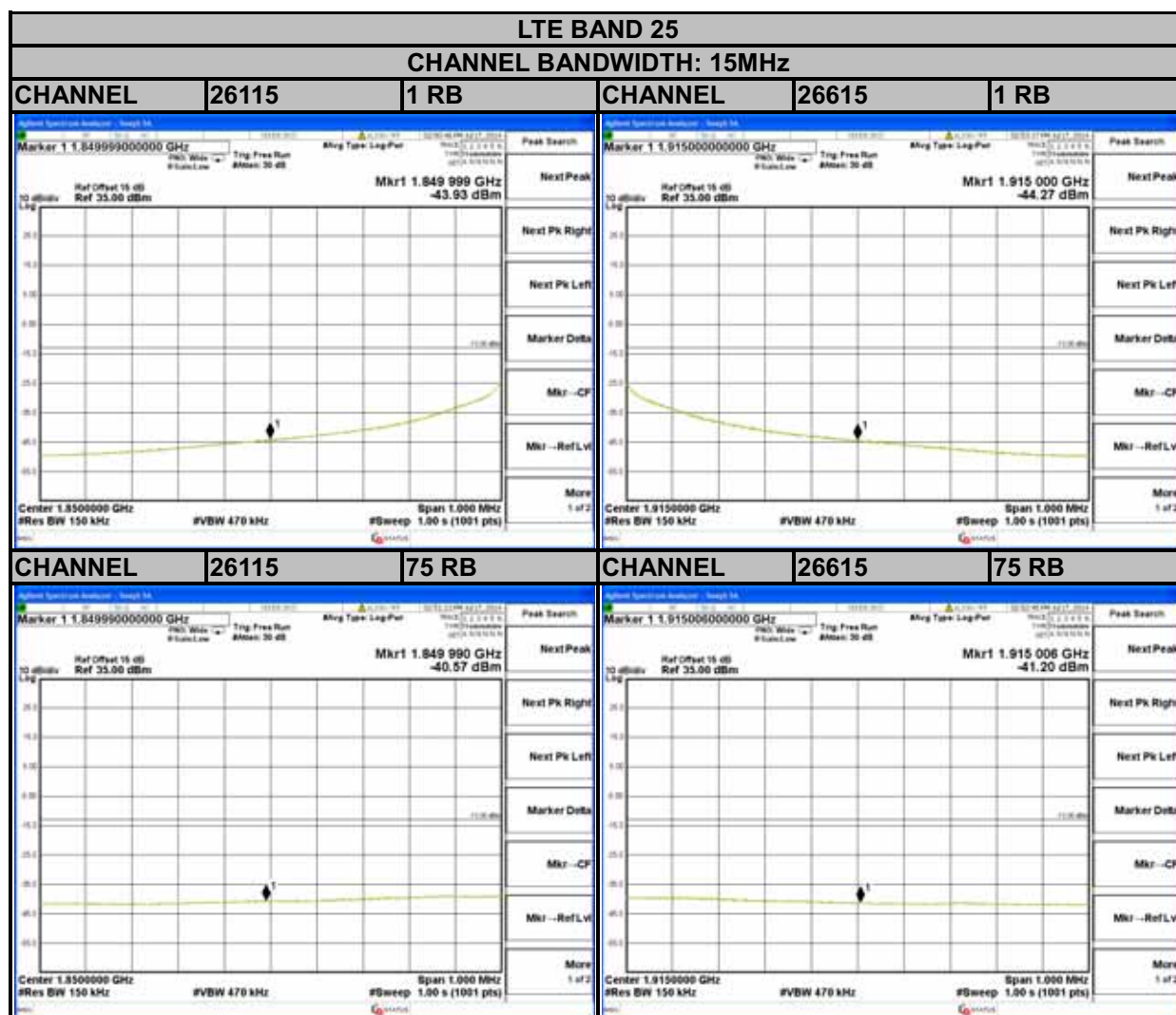


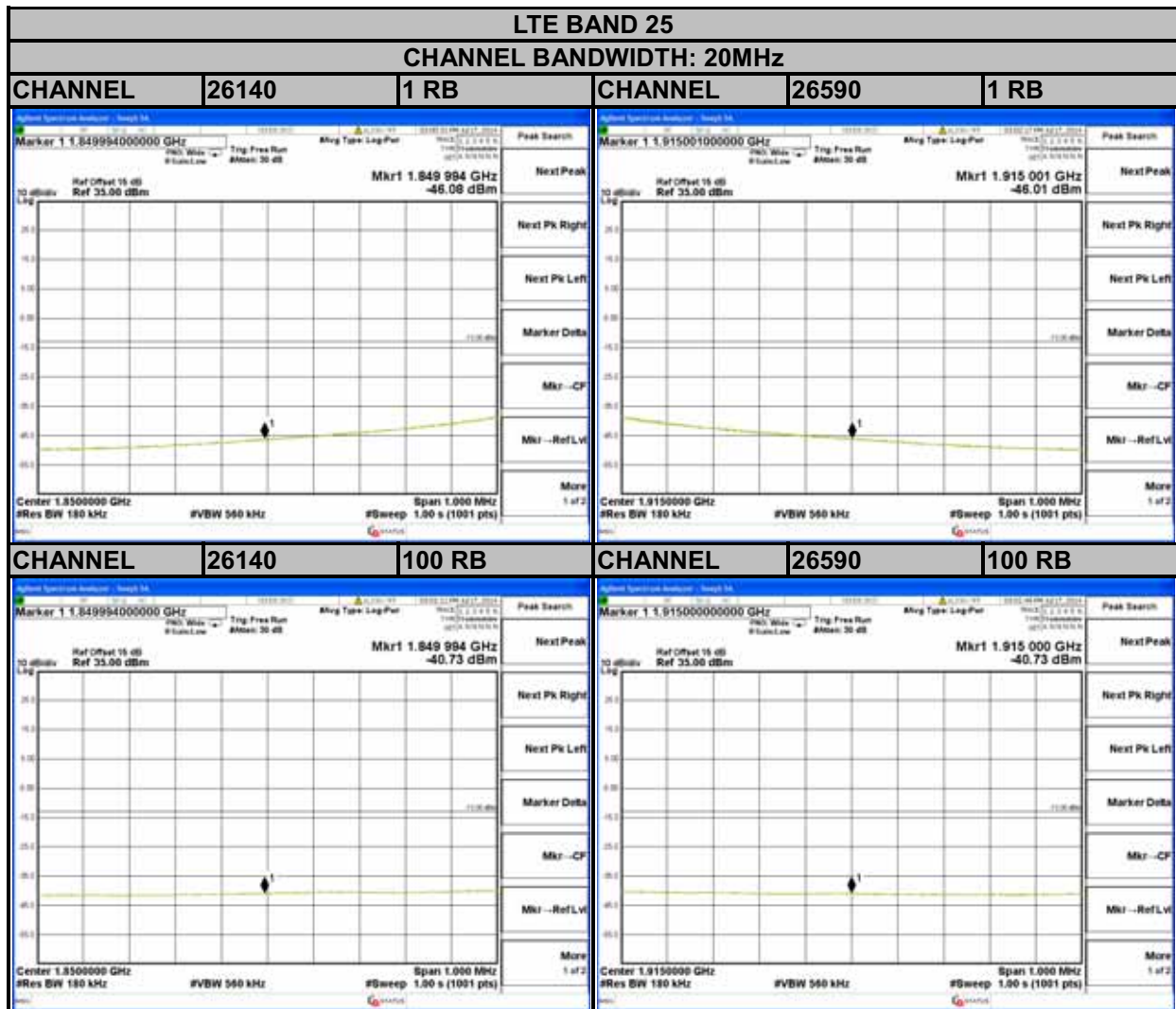












4.6 CONDUCTED SPURIOUS EMISSIONS

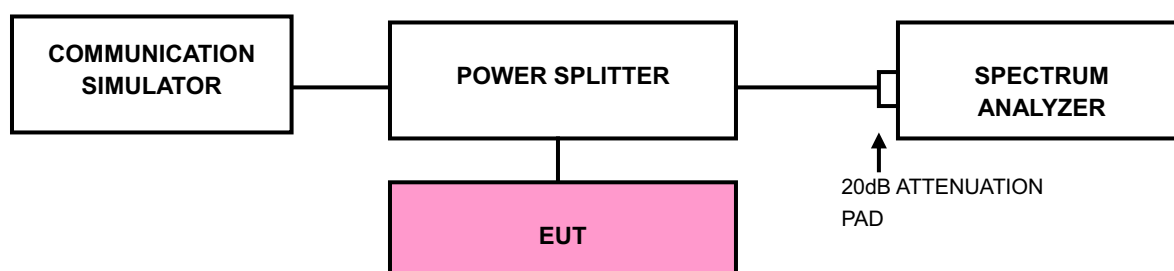
4.6.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 is equal to -13dBm.

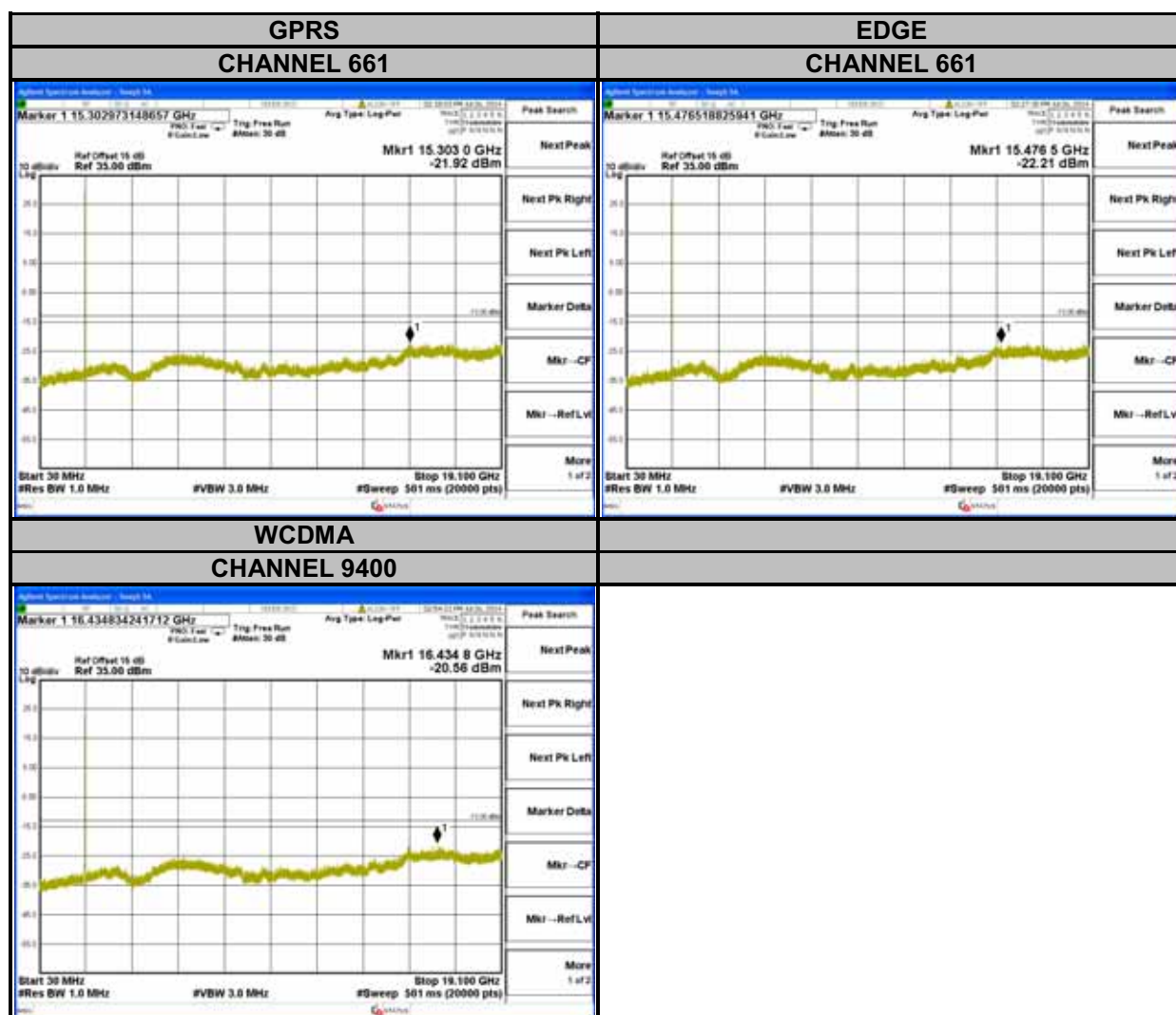
4.6.2 TEST PROCEDURE

- 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



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 is equal to -13dBm.

4.7.2 TEST PROCEDURES

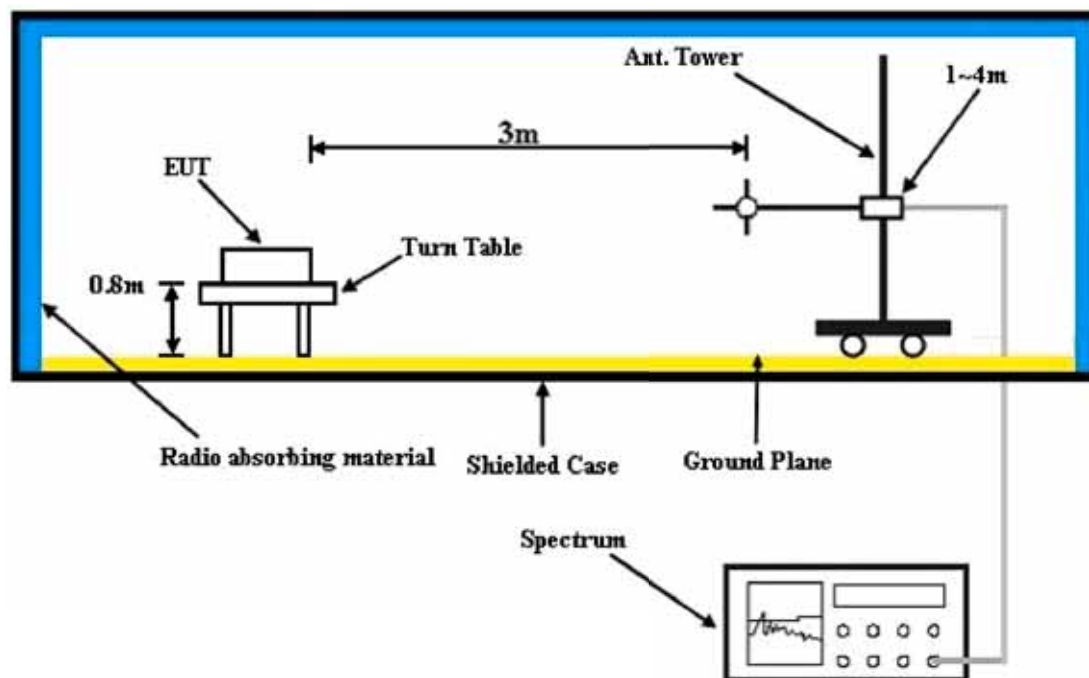
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15\text{dBi}.$

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

MODE A

GPRS:

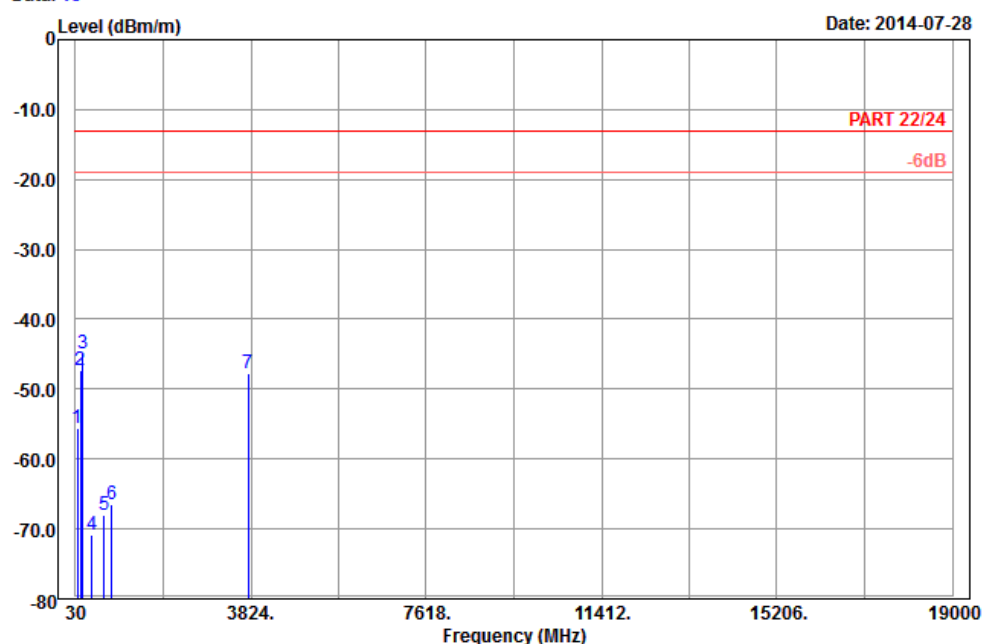


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 13

Date: 2014-07-28



Site : 966 chamber 5
Condition: PART 22/24 3m Horizontal
Remark : GPRS 1900_Link_CH661
Tested by: Will Chen
Plane : X
Ant : Main

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	67.53	-55.61	-42.65	-13.00	-42.61	-12.96	Peak
2	141.24	-47.37	-39.63	-13.00	-34.37	-7.74	Peak
3 pp	185.79	-44.92	-39.25	-13.00	-31.92	-5.67	Peak
4	392.40	-70.91	-67.81	-13.00	-57.91	-3.10	Peak
5	654.90	-68.02	-67.86	-13.00	-55.02	-0.16	Peak
6	807.50	-66.46	-68.38	-13.00	-53.46	1.92	Peak
7	3760.00	-47.64	-63.78	-13.00	-34.64	16.14	Peak

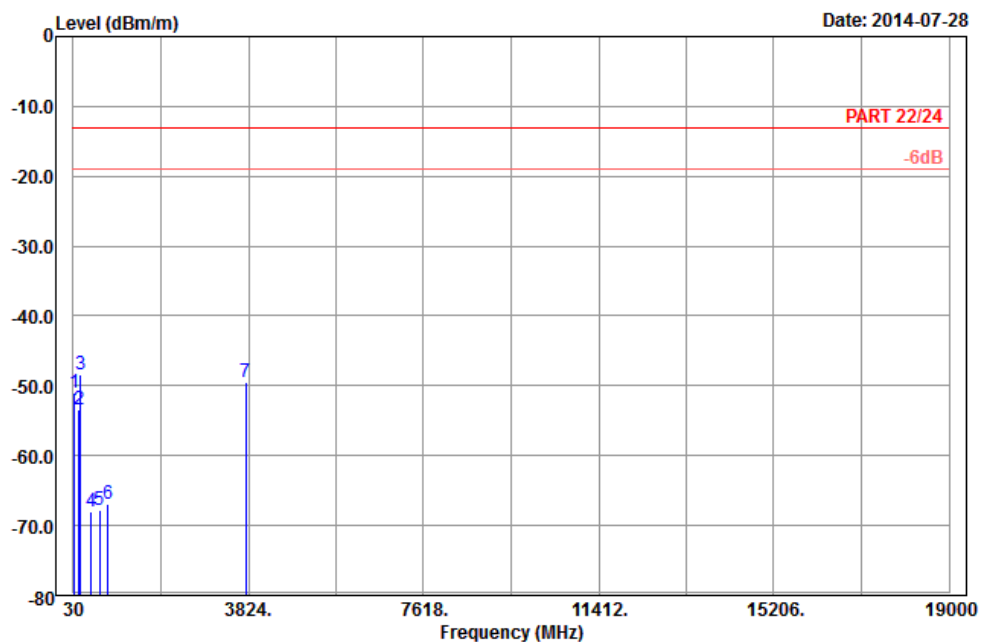


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 14

Date: 2014-07-28



Site : 966 chamber 5
Condition: PART 22/24 3m Vertical
Remark : GPRS 1900_Link_CH661
Tested by: Will Chen
Plane : X
Ant : Main

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	47.28	-50.91	-37.80	-13.00	-37.91	-13.11	Peak
2	147.18	-53.38	-45.50	-13.00	-40.38	-7.88	Peak
3 pp	191.19	-48.37	-42.59	-13.00	-35.37	-5.78	Peak
4	423.20	-68.11	-64.86	-13.00	-55.11	-3.25	Peak
5	601.00	-67.71	-68.13	-13.00	-54.71	0.42	Peak
6	779.50	-66.87	-67.54	-13.00	-53.87	0.67	Peak
7	3760.00	-49.39	-65.53	-13.00	-36.39	16.14	Peak

EDGE:

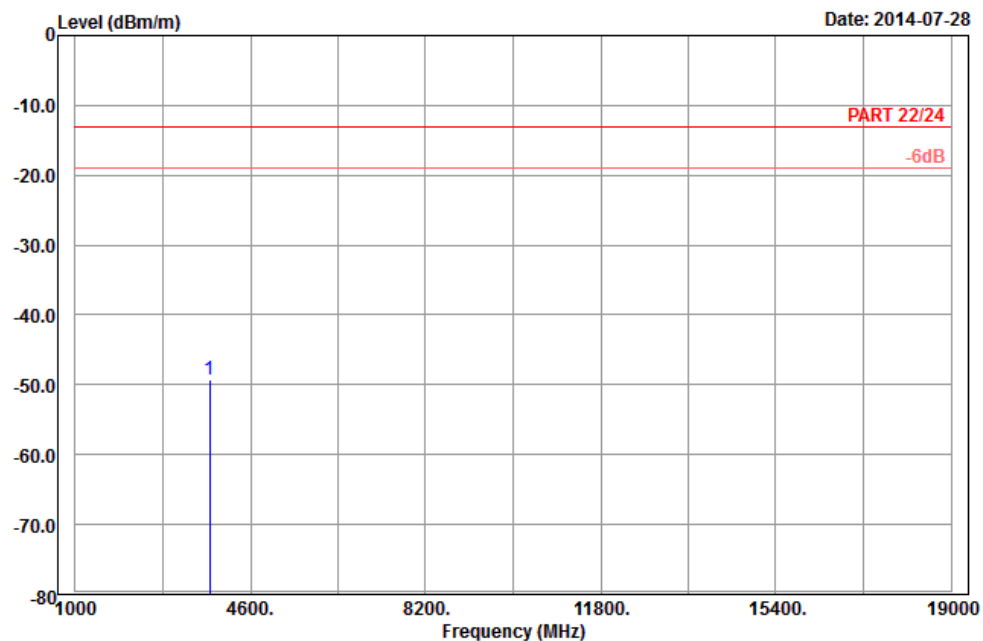


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2014-07-28



Site : 966 chamber 5
Condition: PART 22/24 3m Horizontal
Remark : EDGE 1900_Link_CH661
Tested by: Will Chen
Plane : X
Ant : Main

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-49.26	-65.40	-13.00	-36.26	16.14	Peak

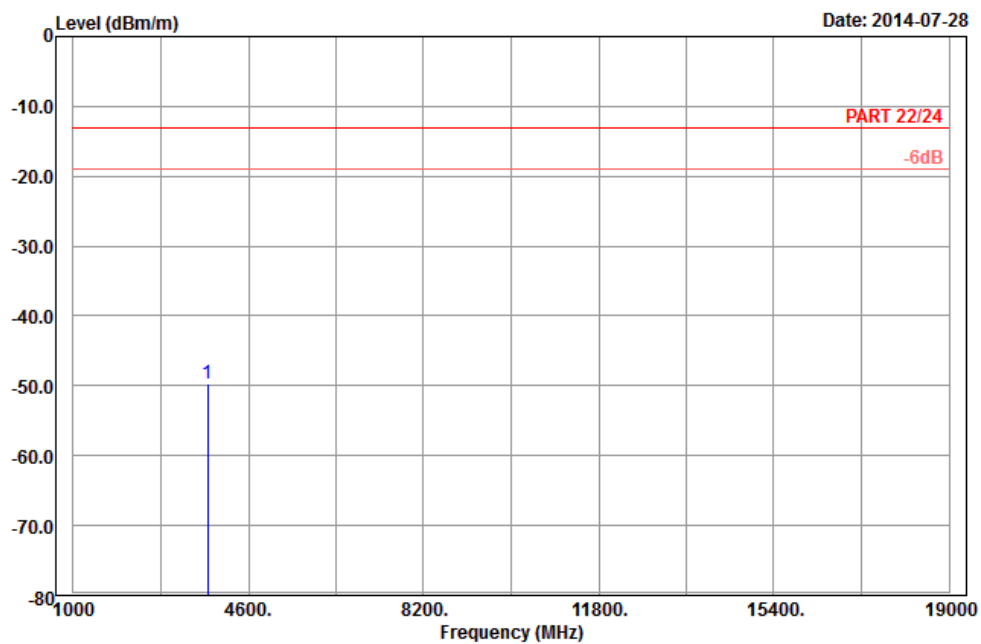


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2014-07-28



Site : 966 chamber 5
 Condition: PART 22/24 3m Vertical
 Remark : EDGE 1900_Link_CH661
 Tested by: Will Chen
 Plane : X
 Ant : Main

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-49.75	-65.89	-13.00	-36.75	16.14	Peak

WCDMA:

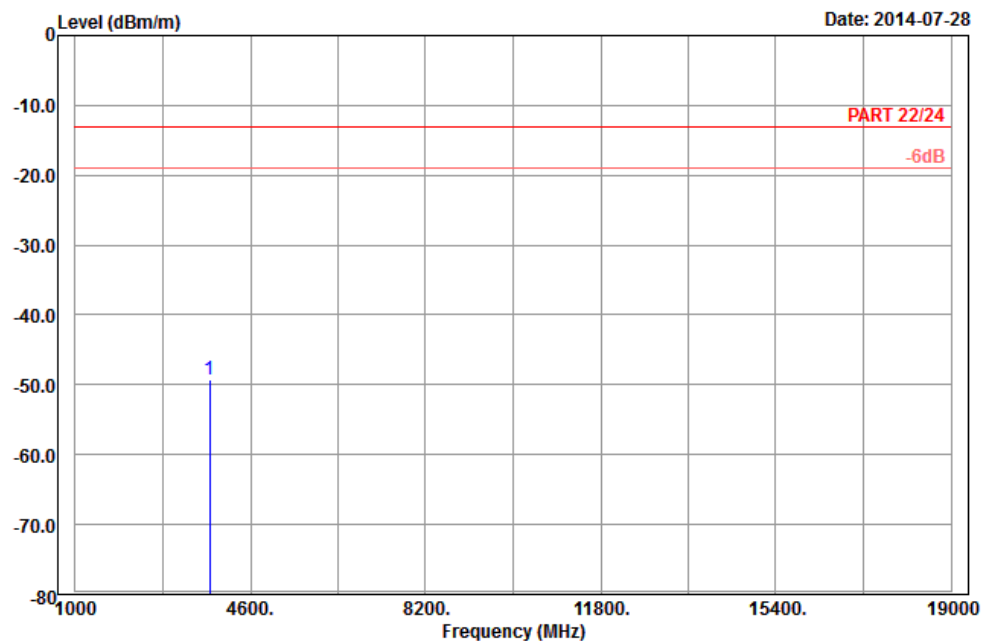


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2014-07-28



Site : 966 chamber 5
Condition: PART 22/24 3m Horizontal
Remark : Band II_Link_CH9400
Tested by: Will Chen
Plane : X
Ant : Main

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-49.18	-65.32	-13.00	-36.18	16.14	Peak

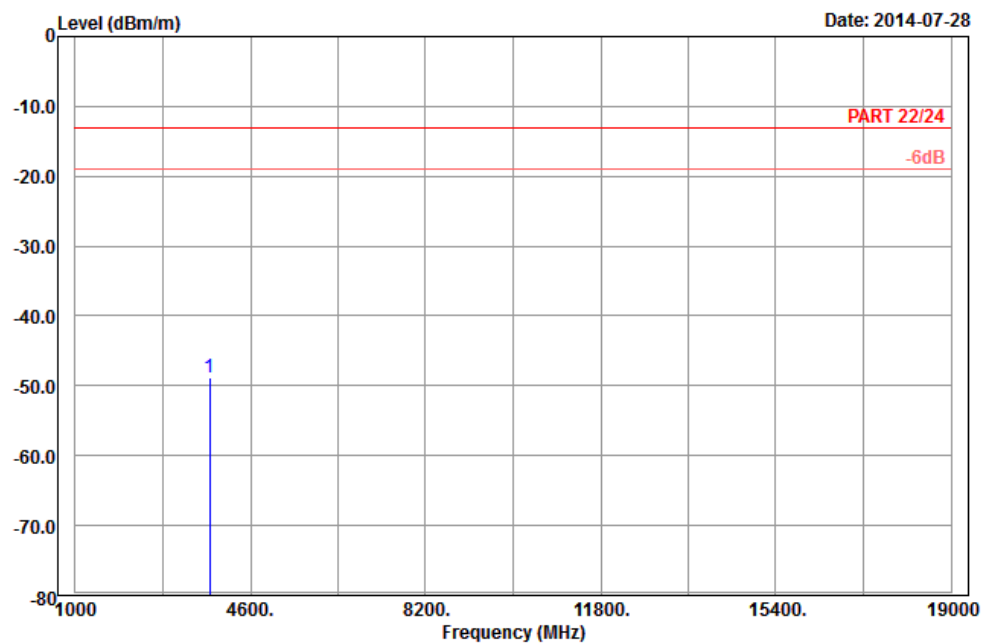


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10

Date: 2014-07-28



Site : 966 chamber 5
 Condition: PART 22/24 3m Vertical
 Remark : Band II_Link_CH9400
 Tested by: Will Chen
 Plane : X
 Ant : Main

		Read	Limit	Over		
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp 3760.00	-48.89	-65.03	-13.00	-35.89	16.14	Peak

LTE BAND 2

CHANNEL BANDWIDTH: 20MHz / QPSK

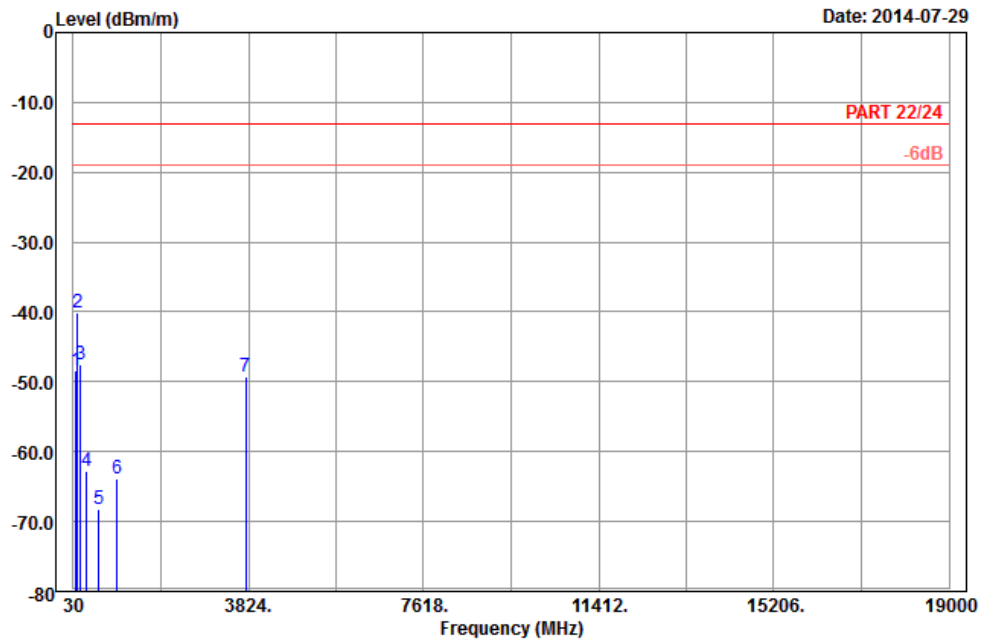


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 13

Date: 2014-07-29



Site : 966 chamber 5
Condition: PART 22/24 3m Horizontal
Remark : LTE_Band 2_QPSK(1,0)_20M_CH18900
Tested by: Harry Hsueh
Plane : Z
ANT : Main

			Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	90.21	-48.32	-37.65	-13.00	-35.32	-10.67	Peak
2	124.23	-40.21	-32.20	-13.00	-27.21	-8.01	Peak
3	193.35	-47.52	-41.65	-13.00	-34.52	-5.87	Peak
4	324.50	-62.70	-57.03	-13.00	-49.70	-5.67	Peak
5	587.00	-68.12	-67.98	-13.00	-55.12	-0.14	Peak
6	971.30	-63.77	-68.94	-13.00	-50.77	5.17	Peak
7	3760.00	-49.26	-65.40	-13.00	-36.26	16.14	Peak

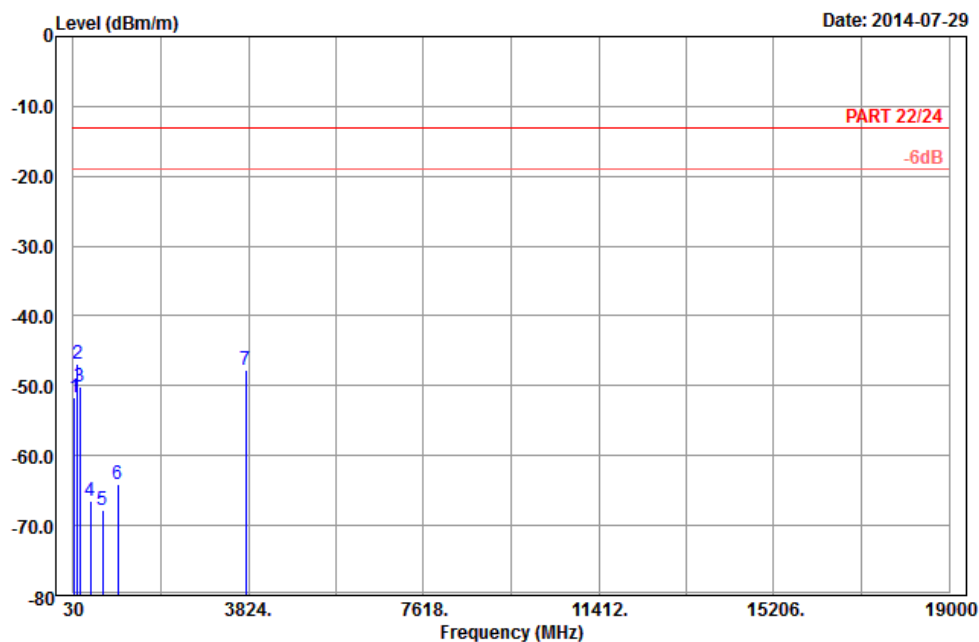


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2014-07-29



Site : 966 chamber 5
Condition: PART 22/24 3m Vertical
Remark : LTE_Band 2_QPSK(1,0)_20M_CH18900
Tested by: Harry Hsueh
Plane : Z
ANT : Main

		Read	Limit	Over		
	Freq	Level	Level	Line	Limit	Factor Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1	48.09	-51.60	-38.17	-13.00	-38.60	-13.43 Peak
2 pp	123.96	-46.83	-38.82	-13.00	-33.83	-8.01 Peak
3	163.92	-50.22	-42.94	-13.00	-37.22	-7.28 Peak
4	395.90	-66.56	-63.61	-13.00	-53.56	-2.95 Peak
5	659.10	-67.73	-67.55	-13.00	-54.73	-0.18 Peak
6	987.40	-64.01	-69.24	-13.00	-51.01	5.23 Peak
7	3760.00	-47.81	-63.95	-13.00	-34.81	16.14 Peak

LTE BAND 25

CHANNEL BANDWIDTH: 20MHz / QPSK

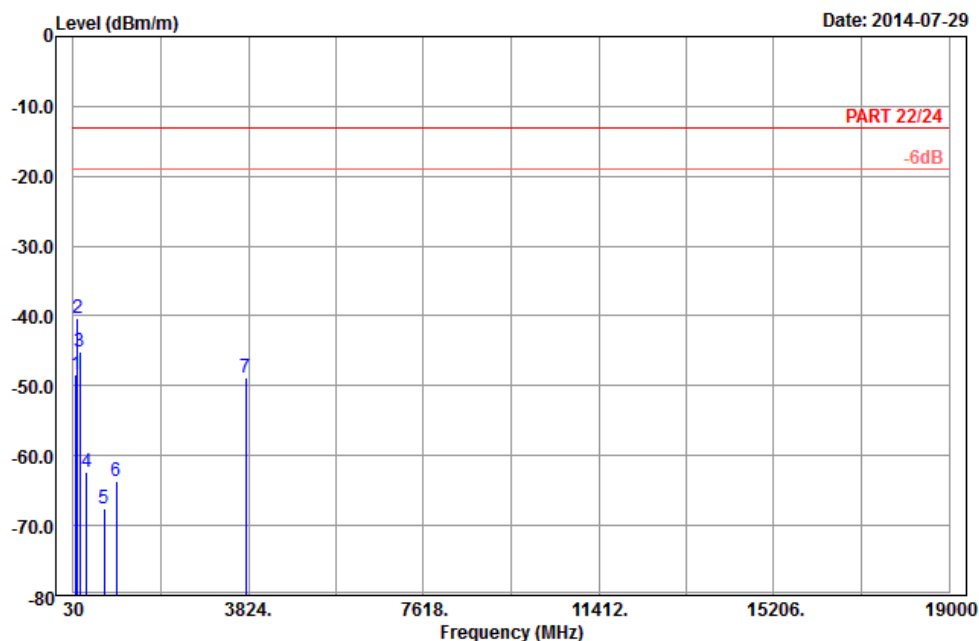


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 13

Date: 2014-07-29



Site : 966 chamber 5
Condition: PART 22/24 3m Horizontal
Remark : LTE_Band 25_QPSK(1,99)_20M_CH26365
Tested by: Harry Hsueh
Plane : X
ANT : Main

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	90.21	-48.36	-37.69	-13.00	-35.36	-10.67	Peak
2	pp 124.77	-40.30	-32.35	-13.00	-27.30	-7.95	Peak
3	163.38	-45.08	-37.80	-13.00	-32.08	-7.28	Peak
4	323.10	-62.42	-56.73	-13.00	-49.42	-5.69	Peak
5	695.50	-67.60	-67.25	-13.00	-54.60	-0.35	Peak
6	967.80	-63.60	-68.77	-13.00	-50.60	5.17	Peak
7	3765.00	-48.75	-64.98	-13.00	-35.75	16.23	Peak

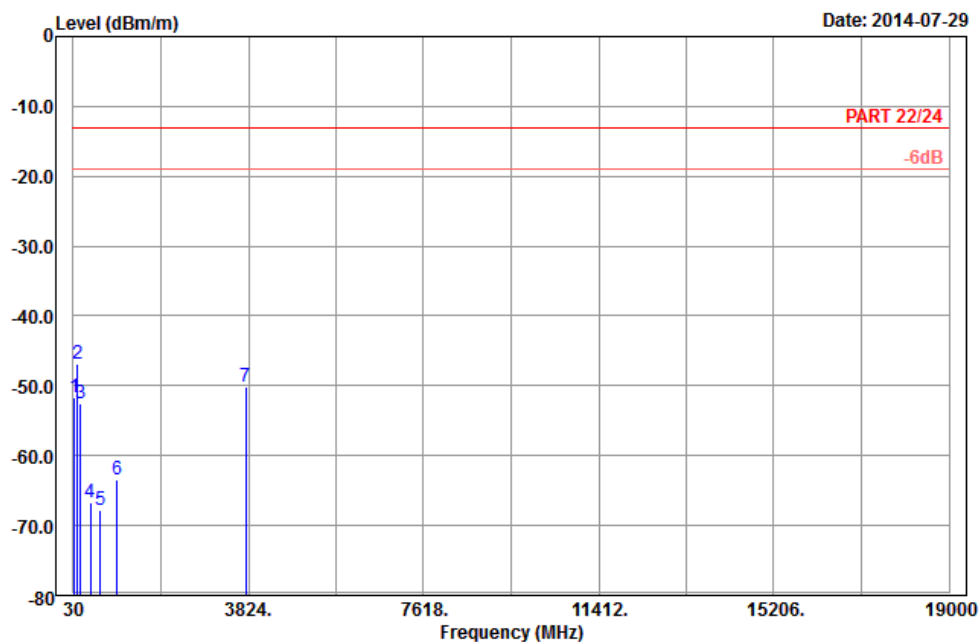


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2014-07-29



Site : 966 chamber 5
Condition: PART 22/24 3m Vertical
Remark : LTE_Band 25_QPSK(1,99)_20M_CH26365
Tested by: Harry Hsueh
Plane : X
ANT : Main

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	47.82	-51.62	-38.51	-13.00	-38.62	-13.11	Peak
2 pp	124.50	-46.88	-38.87	-13.00	-33.88	-8.01	Peak
3	186.87	-52.55	-46.86	-13.00	-39.55	-5.69	Peak
4	399.40	-66.79	-64.05	-13.00	-53.79	-2.74	Peak
5	616.40	-67.88	-68.12	-13.00	-54.88	0.24	Peak
6	974.80	-63.45	-68.64	-13.00	-50.45	5.19	Peak
7	3765.00	-50.12	-66.35	-13.00	-37.12	16.23	Peak

MODE B

GPRS:

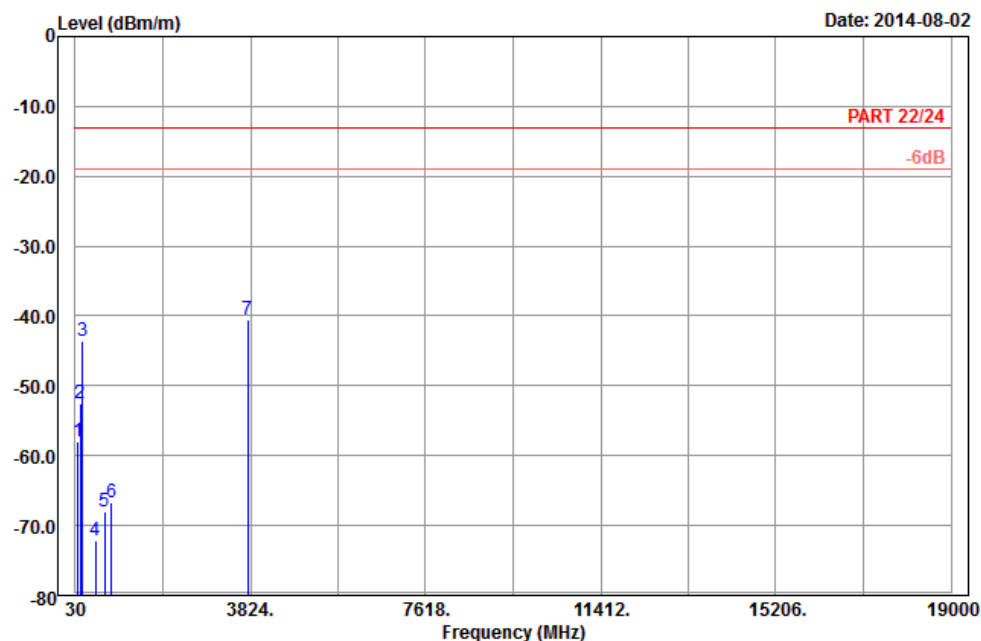


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 13

Date: 2014-08-02



Site : 966 chamber 5
Condition: PART 22/24 3m Horizontal
Remark : GPRS 1900_Link_CH661
Tested by: Will Chen
Plane : Z
Ant : Main

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	90.75	-58.01	-47.39	-13.00	-45.01	-10.62	Peak
2	142.59	-52.43	-44.67	-13.00	-39.43	-7.76	Peak
3	188.76	-43.64	-37.92	-13.00	-30.64	-5.72	Peak
4	465.20	-72.22	-67.93	-13.00	-59.22	-4.29	Peak
5	657.00	-68.03	-67.86	-13.00	-55.03	-0.17	Peak
6	806.80	-66.69	-68.62	-13.00	-53.69	1.93	Peak
7 pp	3760.00	-40.64	-56.78	-13.00	-27.64	16.14	Peak

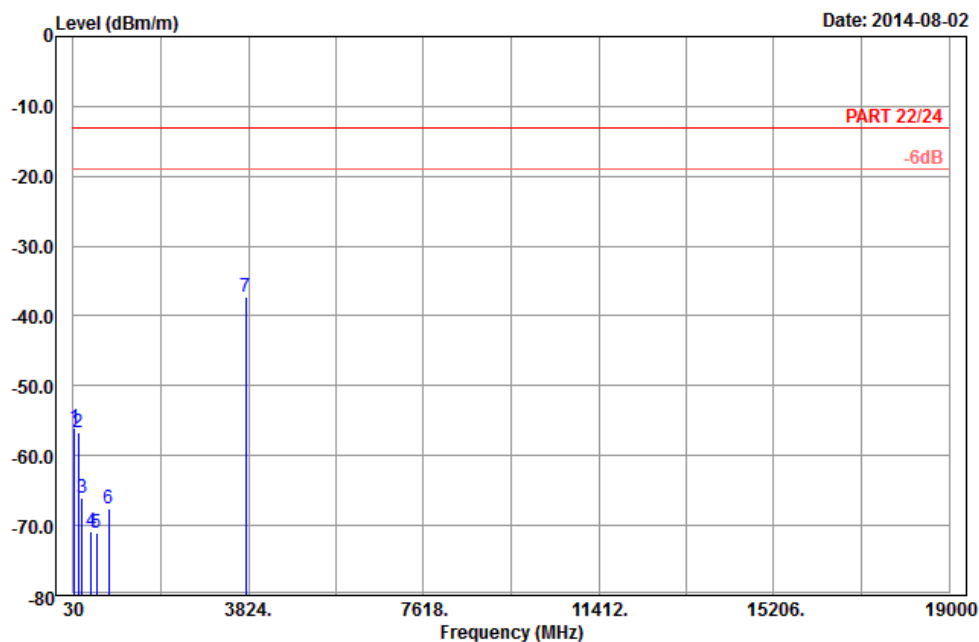


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2014-08-02



Site : 966 chamber 5
Condition: PART 22/24 3m Vertical
Remark : GPRS 1900_Link_CH661
Tested by: Will Chen
Plane : Z
Ant : Main

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	62.94	-55.97	-42.32	-13.00	-42.97	-13.65	Peak
2	142.59	-56.72	-48.96	-13.00	-43.72	-7.76	Peak
3	225.48	-66.12	-60.29	-13.00	-53.12	-5.83	Peak
4	419.70	-70.78	-67.59	-13.00	-57.78	-3.19	Peak
5	540.80	-71.13	-68.83	-13.00	-58.13	-2.30	Peak
6	794.20	-67.57	-69.20	-13.00	-54.57	1.63	Peak
7 pp	3760.00	-37.18	-53.32	-13.00	-24.18	16.14	Peak

LTE BAND 2

CHANNEL BANDWIDTH: 20MHz / QPSK

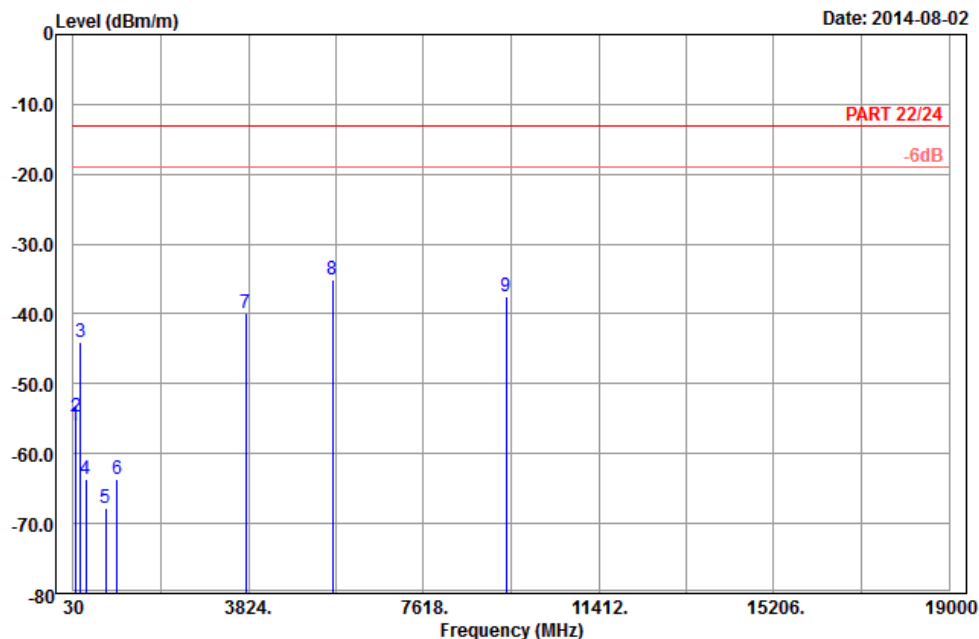


Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

A D T

Data: 13

Date: 2014-08-02



Site : 966 chamber 5
Condition: PART 22/24 3m Horizontal
Remark : LTE_Band 2_QPSK(1,0)_20M_CH18900
Tested by: Harry Hsueh
Plane : X
ANT : Main

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	64.29	-55.94	-42.43	-13.00	-42.94	-13.51	Peak
2	89.67	-54.76	-44.09	-13.00	-41.76	-10.67	Peak
3	192.81	-44.00	-38.13	-13.00	-31.00	-5.87	Peak
4	300.00	-63.60	-57.64	-13.00	-50.60	-5.96	Peak
5	728.40	-67.75	-66.84	-13.00	-54.75	-0.91	Peak
6	974.10	-63.70	-68.88	-13.00	-50.70	5.18	Peak
7	3760.00	-39.82	-55.96	-13.00	-26.82	16.14	Peak
8 pp	5640.00	-35.09	-55.56	-13.00	-22.09	20.47	Peak
9	9400.00	-37.51	-63.28	-13.00	-24.51	25.77	Peak

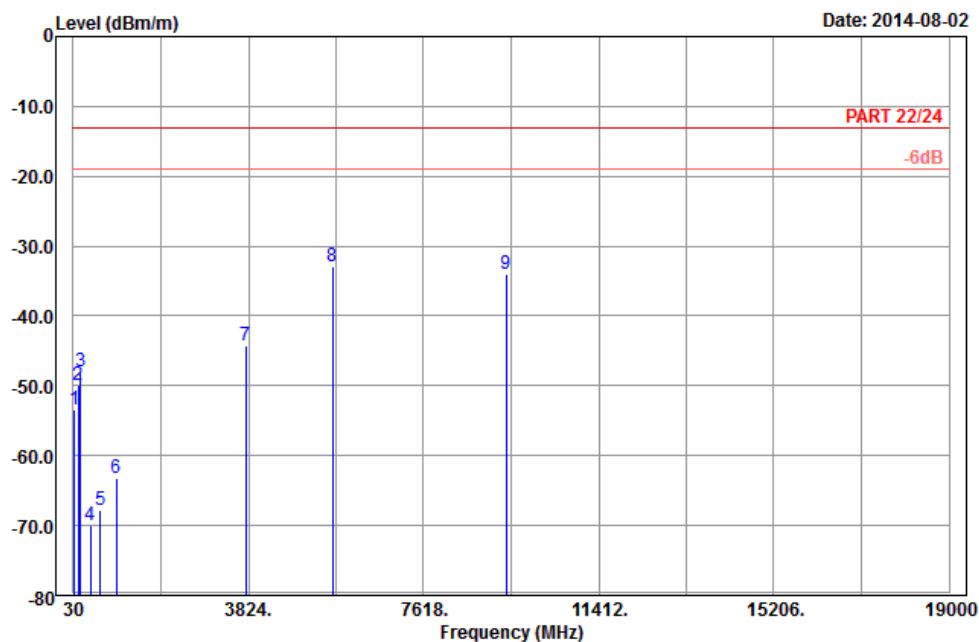


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2014-08-02



Site : 966 chamber 5
Condition: PART 22/24 3m Vertical
Remark : LTE_Band 2_QPSK(1,0)_20M_CH18900
Tested by: Harry Hsueh
Plane : X
ANT : Main

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	48.09	-53.44	-40.01	-13.00	-40.44	-13.43	Peak
2	143.67	-49.93	-42.14	-13.00	-36.93	-7.79	Peak
3	188.76	-48.03	-42.31	-13.00	-35.03	-5.72	Peak
4	407.10	-69.91	-67.00	-13.00	-56.91	-2.91	Peak
5	620.60	-67.86	-68.06	-13.00	-54.86	0.20	Peak
6	965.70	-63.27	-68.43	-13.00	-50.27	5.16	Peak
7	3760.00	-44.15	-60.29	-13.00	-31.15	16.14	Peak
8 pp	5640.00	-33.02	-53.49	-13.00	-20.02	20.47	Peak
9	9400.00	-34.04	-59.81	-13.00	-21.04	25.77	Peak

LTE BAND 25

CHANNEL BANDWIDTH: 20MHz / QPSK

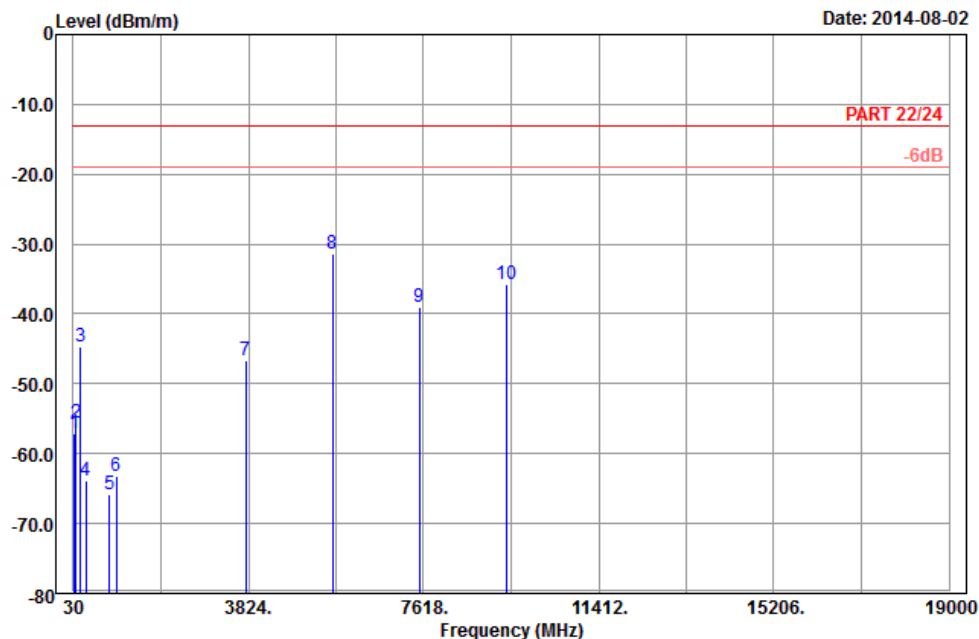


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 13

Date: 2014-08-02



Site : 966 chamber 5
Condition: PART 22/24 3m Horizontal
Remark : LTE_Band 25_QPSK(1,99)_20M_CH26365
Tested by: Harry Hsueh
Plane : Y
ANT : Main

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	62.40	-57.14	-43.35	-13.00	-44.14	-13.79	Peak
2	90.48	-55.48	-44.81	-13.00	-42.48	-10.67	Peak
3	192.81	-44.72	-38.85	-13.00	-31.72	-5.87	Peak
4	307.00	-63.86	-57.99	-13.00	-50.86	-5.87	Peak
5	815.20	-65.72	-67.57	-13.00	-52.72	1.85	Peak
6	965.00	-63.12	-68.28	-13.00	-50.12	5.16	Peak
7	3765.00	-46.64	-62.87	-13.00	-33.64	16.23	Peak
8 pp	5647.50	-31.36	-51.83	-13.00	-18.36	20.47	Peak
9	7530.00	-38.97	-61.82	-13.00	-25.97	22.85	Peak
10	9412.50	-35.78	-61.55	-13.00	-22.78	25.77	Peak

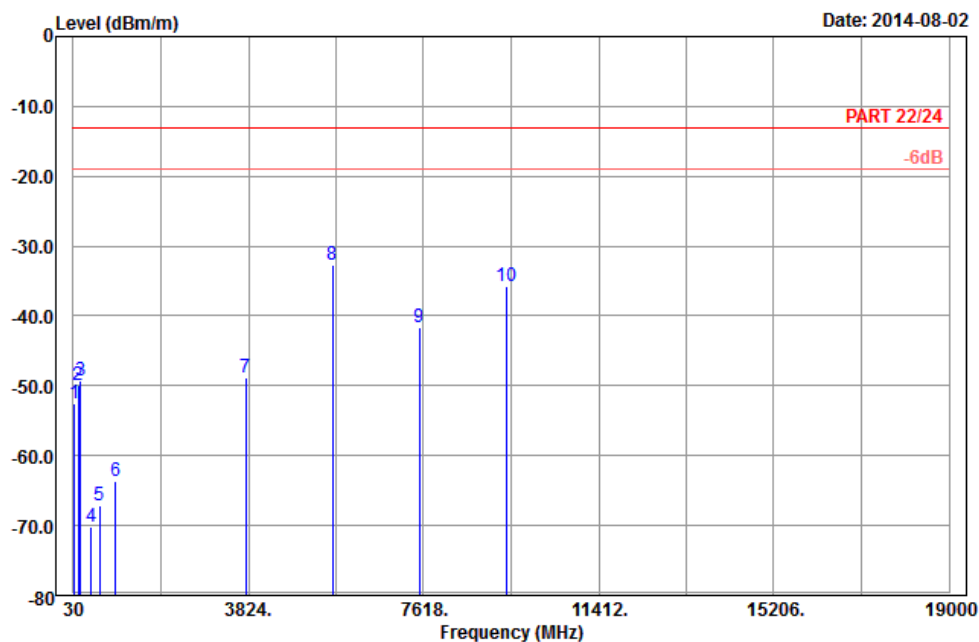


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 14

Date: 2014-08-02



Site : 966 chamber 5
Condition: PART 22/24 3m Vertical
Remark : LTE_Band 25_QPSK(1,99)_20M_CH26365
Tested by: Harry Hsueh
Plane : Y
ANT : Main

	Freq	Level	Read Level	Limit	Over	
	MHz	dBm/m	dBm	dBm/m	dB	dB/m
1	48.09	-52.53	-39.10	-13.00	-39.53	-13.43 Peak
2	145.02	-49.90	-42.07	-13.00	-36.90	-7.83 Peak
3	190.38	-49.37	-43.64	-13.00	-36.37	-5.73 Peak
4	419.00	-70.27	-67.10	-13.00	-57.27	-3.17 Peak
5	599.60	-67.04	-67.43	-13.00	-54.04	0.39 Peak
6	952.40	-63.75	-68.87	-13.00	-50.75	5.12 Peak
7	3765.00	-48.72	-64.95	-13.00	-35.72	16.23 Peak
8 pp	5647.50	-32.79	-53.26	-13.00	-19.79	20.47 Peak
9	7530.00	-41.72	-64.57	-13.00	-28.72	22.85 Peak
10	9412.50	-35.74	-61.51	-13.00	-22.74	25.77 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:

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Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

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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.

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---