FCC TEST REPORT

(PART 22)

REPORT NO.:	RF140324C25-4
MODEL NO.:	0PAJ500
FCC ID:	NM80PAJ500
RECEIVED:	Mar. 24, 2014
TESTED:	Apr. 19, 2014 ~ May 24, 2014
ISSUED:	Jun. 04, 2014

APPLICANT:	HTC Corporation
ADDRESS:	1F, 6-3 Baoqiang Road, Xindian District, New Taipei City, Taiwan 231

ISSUED BY:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
LAB ADDRESS:	No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)
TEST LOCATION:	No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

This report should not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140324C25-4	Original release	Jun. 04, 2014

1 CERTIFICATION

PRODUCT:	Smartphone
MODEL:	0PAJ500
BRAND:	HTC
APPLICANT:	HTC Corporation
TESTED:	Apr. 19, 2014 ~ May 24, 2014
TEST SAMPLE:	Production Unit
STANDARDS:	**FCC PART 22, Subpart H**

The above equipment (model: 0PAJ500) 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 : _____ **, DATE :** Jun. 04, 2014

Ivonne Wu / Supervisor

APPROVED BY : _____ **, DATE :** Jun. 04, 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 22 & Part 2			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
2.1046 22.913 (a)	Effective Radiated Power	PASS	Meet the requirement of limit.
2.1055 22.355	Frequency Stability	PASS	Meet the requirement of limit.
2.1049	Occupied Bandwidth	PASS	Meet the requirement of limit.
22.917	Band Edge Measurements	PASS	Meet the requirement of limit.
2.1051 22.917	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -19.47dB at 31.89MHz.

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 AGILENT	N9038A	MY51210203	Jan. 17, 2014	Jan. 16, 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
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Jul. 18, 2013	Jul. 17, 2014
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, 2014

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.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Smartphone	
MODEL NO.	0PAJ500	
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)	
MODULATION TYPE	**CDMA**	QPSK, OQPSK, HPSK
	LTE	QPSK, 16QAM
FREQUENCY RANGE	**CDMA**	824.7MHz ~ 848.31MHz
	LTE 26 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE 26 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE 26 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE 26 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE 26 (Channel Bandwidth: 15MHz)	831.5MHz ~ 841.5MHz
MAX. ERP POWER	**CDMA**	83.37mW
	LTE 26 (Channel Bandwidth: 1.4MHz)	67.61mW
	LTE 26 (Channel Bandwidth: 3MHz)	64.71mW
	LTE 26 (Channel Bandwidth: 5MHz)	73.62mW
	LTE 26 (Channel Bandwidth: 10MHz)	79.25mW
	LTE 26 (Channel Bandwidth: 15MHz)	77.80mW
EMISSION DESIGNATOR	**CDMA**	1M27F9W
	LTE 26 (Channel Bandwidth: 1.4MHz)	1M08G7D
	LTE 26 (Channel Bandwidth: 3MHz)	2M68G7D
	LTE 26 (Channel Bandwidth: 5MHz)	4M49G7D
	LTE 26 (Channel Bandwidth: 10MHz)	8M93G7D
	LTE 26 (Channel Bandwidth: 15MHz)	13M4G7D
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's accessories list refers to Ext. Pho.
2. There're 2 configurations for the EUT listed as below.

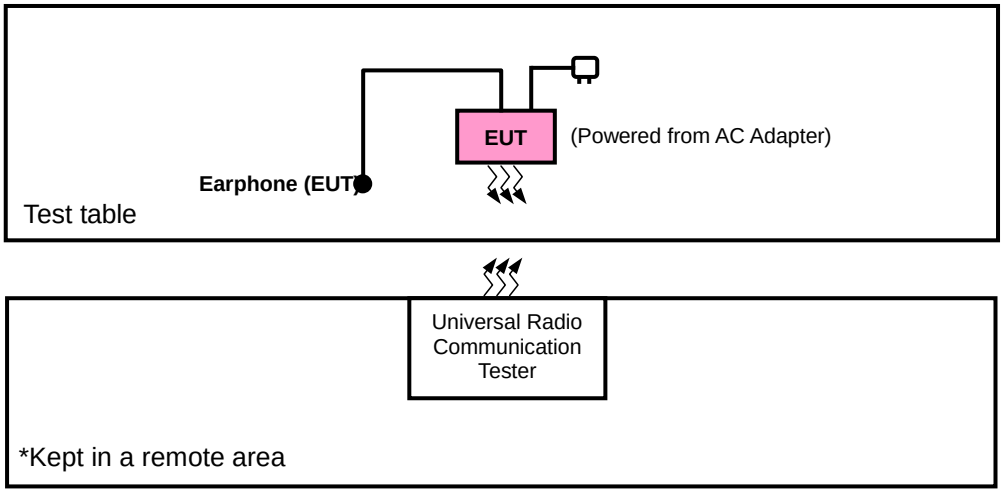
   Main sample (A): Phone + Battery 1 + LCM 1

   2nd sample (B): Phone + Battery 2 + LCM 2

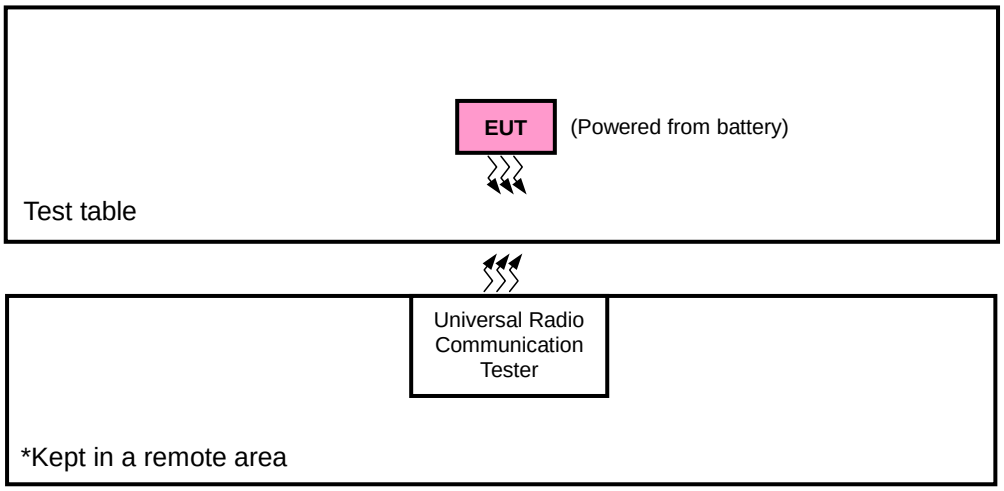
   ✧ Only the worst test data was presented in the report.
3. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR E.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	2nd sample

EUT CONFIGURE MODE	ERP	RADIATED EMISSION
CDMA	Y-plane	X-axis
LTE	Y-plane	Y-axis (Mode A) X-axis (Mode B)

CDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A, B	ERP	1013 to 777	1013, 384, 777	1xRTT
A	FREQUENCY STABILITY	1013 to 777	384	1xRTT
A	OCCUPIED BANDWIDTH	1013 to 777	1013, 384, 777	1xRTT
A	BAND EDGE	1013 to 777	1013, 777	1xRTT
A	CONDCUDETED EMISSION	1013 to 777	384	1xRTT
A, B	RADIATED EMISSION	1013 to 777	384	1xRTT

LTE BAND 26 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB / 2 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB / 7 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB / 24 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB / 37 RB Offset
B	ERP	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB / 37 RB Offset
A	FREQUENCY STABILITY	26797 to 27033	26915	1.4MHz	QPSK	1 RB / 2 RB Offset
		26805 to 27025	26915	3MHz	QPSK	1 RB / 7 RB Offset
		26815 to 27015	26915	5MHz	QPSK	1 RB / 12 RB Offset
		26840 to 26990	26915	10MHZ	QPSK	1 RB / 24 RB Offset
		26865 to 26965	26915	15MHZ	QPSK	1 RB / 37 RB Offset
A	OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	75 RB / 0 RB Offset
A	BAND EDGE	26797 to 27033	26797	1.4MHz	QPSK	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
			27033	1.4MHz	QPSK	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		26805 to 27025	26805	3MHz	QPSK	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
			27025	3MHz	QPSK	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		26815 to 27015	26815	5MHz	QPSK	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
			27015	5MHz	QPSK	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		26840 to 26990	26840	10MHz	QPSK	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
			26990	10MHz	QPSK	1 RB / 49 RB Offset
						50 RB / 0 RB Offset
		26865 to 26965	26865	15MHz	QPSK	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
			26965	15MHz	QPSK	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
A	CONDCUDETED EMISSION	26797 to 27033	26915	1.4MHz	QPSK	1 RB / 2 RB Offset
		26805 to 27025	26915	3MHz	QPSK	1 RB / 7 RB Offset
		26815 to 27015	26915	5MHz	QPSK	1 RB / 12 RB Offset
		26840 to 26990	26915	10MHZ	QPSK	1 RB / 24 RB Offset
		26865 to 26965	26915	15MHZ	QPSK	1 RB / 37 RB Offset

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	RADIATED EMISSION	26797 to 27033	26915	1.4MHz	QPSK	1 RB / 2 RB Offset
		26805 to 27025	26915	3MHz	QPSK	1 RB / 7 RB Offset
		26815 to 27015	26915	5MHz	QPSK	1 RB / 12 RB Offset
		26840 to 26990	26915	10MHZ	QPSK	1 RB / 24 RB Offset
		26865 to 26965	26915	15MHZ	QPSK	1 RB / 37 RB Offset
B	RADIATED EMISSION	26865 to 26965	26915	15MHZ	QPSK	1 RB / 37 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
ERP	26deg. C, 58%RH	3.8Vdc	Howard Kao
FREQUENCY STABILITY	26deg. C, 58%RH	3.8Vdc	Howard Kao
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.8Vdc	Howard Kao
BAND EDGE	26deg. C, 58%RH	3.8Vdc	Howard Kao
CONDCUDETED EMISSION	26deg. C, 58%RH	3.8Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Anson Lin / Peter Weng / Johnson Liao

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 22
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 / Portable station are limited to 7 watts e.r.p.

4.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

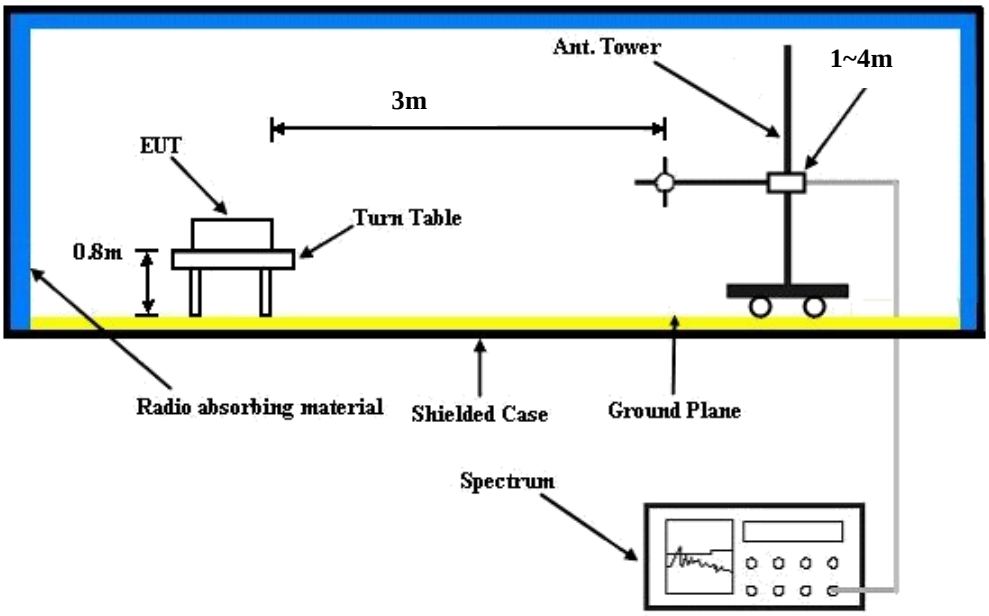
a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5MHz for CDMA, and 10MHz for LTE mode.
b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees 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 = Output power level of S.G – TX cable loss + Antenna gain of substitution horn. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

CONDUCTED POWER MEASUREMENT:

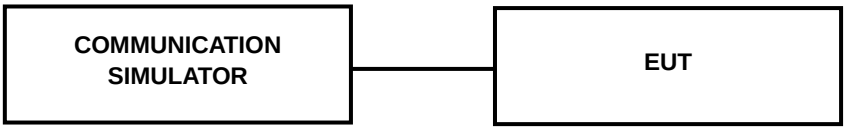
The EUT was set up for the maximum power with CDMA & LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:



4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	CDMA		
Channel	1013	384	777
Frequency (MHz)	824.70	836.52	848.31
RC1+SO55	24.34	24.33	24.37
RC3+SO55	24.33	24.32	24.40
RC3+SO32(+ F-SCH)	24.32	24.31	24.35
RC3+SO32(+SCH)	24.33	24.32	24.36
RTAP 153.6	24.34	24.33	24.37
RETAP 4096	24.37	24.36	24.36
RC1+SO3	24.15	24.12	24.20
RC3+SO3	24.18	24.17	24.23

Band / BW	Modulation	RB Size	RB Offset	Low CH 26797 Frequency 824.7 MHz	Mid CH 26915 Frequency 836.5 MHz	High CH 27033 Frequency 848.3 MHz	3GPP MPR (dB)
26 / 1.4M	QPSK	1	0	23.17	23.06	23.20	0
		1	2	23.26	23.34	23.22	0
		1	5	23.15	23.02	23.22	0
		3	0	23.24	23.22	23.19	0
		3	1	23.22	23.24	23.21	0
		3	3	23.29	23.24	23.34	0
		6	0	22.26	22.27	22.31	1
	16QAM	1	0	22.17	22.06	22.20	1
		1	2	22.26	22.34	22.22	1
		1	5	22.15	22.02	22.22	1
		3	0	22.24	22.22	22.14	1
		3	1	22.22	22.24	22.21	1
		3	3	22.29	22.24	22.34	1
		6	0	21.26	21.27	21.31	2

Band / BW	Modulation	RB Size	RB Offset	Low CH 26805 Frequency 825.5 MHz	Mid CH 26915 Frequency 836.5 MHz	High CH 27025 Frequency 847.5 MHz	3GPP MPR (dB)
26 / 3M	QPSK	1	0	23.27	23.16	23.30	0
		1	7	23.36	23.35	23.32	0
		1	14	23.25	23.12	23.32	0
		8	0	22.34	22.32	22.44	1
		8	3	22.32	22.34	22.31	1
		8	7	22.39	22.34	22.44	1
		15	0	22.36	22.37	22.41	1
	16QAM	1	0	22.27	22.16	22.30	1
		1	7	22.36	22.35	22.32	1
		1	14	22.25	22.12	22.32	1
		8	0	21.34	21.32	21.44	2
		8	3	21.32	21.34	21.31	2
		8	7	21.39	21.34	21.44	2
		15	0	21.36	21.37	21.41	2

Band / BW	Modulation	RB Size	RB Offset	Low CHG 26815 Frequency 826.5 MHz	Mid CH 26915 Frequency 836.5 MHz	High CH 27015 Frequency 846.5 MHz	3GPP MPR (dB)
26 / 5M	QPSK	1	0	23.37	23.26	23.40	0
		1	12	23.46	23.45	23.42	0
		1	24	23.35	23.22	23.42	0
		12	0	22.44	22.42	22.54	1
		12	6	22.42	22.44	22.41	1
		12	13	22.49	22.44	22.54	1
		25	0	22.46	22.47	22.51	1
	16QAM	1	0	22.37	22.26	22.40	1
		1	12	22.46	22.45	22.42	1
		1	24	22.35	22.22	22.42	1
		12	0	21.44	21.42	21.54	2
		12	6	21.42	21.44	21.41	2
		12	13	21.49	21.44	21.54	2
		25	0	21.46	21.47	21.51	2

Band / BW	Modulation	RB Size	RB Offset	Low CH 26840 Frequency 829.0 MHz	Mid CH 26915 Frequency 836.5 MHz	High CH 26990 Frequency 844.0 MHz	3GPP MPR (dB)
26 / 10M	QPSK	1	0	23.57	23.46	23.50	0
		1	24	23.66	23.65	23.52	0
		1	49	23.55	23.42	23.52	0
		25	0	22.64	22.62	22.64	1
		25	12	22.62	22.64	22.51	1
		25	25	22.69	22.64	22.64	1
		50	0	22.66	22.67	22.61	1
	16QAM	1	0	22.57	22.46	22.50	1
		1	24	22.66	22.65	22.52	1
		1	49	22.55	22.42	22.52	1
		25	0	21.64	21.62	21.64	2
		25	12	21.62	21.64	21.51	2
		25	25	21.69	21.64	21.64	2
		50	0	21.66	21.67	21.61	2

Band / BW	Modulation	RB Size	RB Offset	Low CH 26865 Frequency 831.5 MHz	Mid CH 26915 Frequency 836.5 MHz	High CH 26965 Frequency 841.5 MHz	3GPP MPR (dB)
26 / 15M	QPSK	1	0	23.67	23.56	23.60	0
		1	37	23.76	23.75	23.62	0
		1	74	23.65	23.52	23.62	0
		36	0	22.76	22.72	22.74	1
		36	19	22.72	22.74	22.61	1
		36	39	22.79	22.74	22.74	1
		75	0	22.76	22.77	22.71	1
	16QAM	1	0	22.67	22.56	22.60	1
		1	37	22.76	22.75	22.62	1
		1	74	22.65	22.52	22.62	1
		36	0	21.76	21.72	21.74	2
		36	19	21.72	21.74	21.61	2
		36	39	21.79	21.74	21.74	2
		75	0	21.76	21.77	21.71	2

ERP POWER (dBm)

MODE A

CDMA							
Plane	**Channel**	**Frequency (MHz)**	**LVL (dBm)**	**Correction Factor(dB)**	**ERP(dBm)**	**ERP(mW)**	**Polarization (H/V)**
Y	1013	824.7	-11.55	32.62	18.92	77.98	H
	384	836.52	-11.97	32.52	18.40	69.18	H
	777	848.31	-11.29	32.65	19.21	83.37	H
	1013	824.7	-17.50	32.76	13.11	20.46	V
	384	836.52	-16.97	32.39	13.27	21.23	V
	777	848.31	-16.72	32.54	13.67	23.28	V

LTE Band 26							
Channel Bandwidth: 1.4MHz / QPSK							
Plane	**Channel**	**Frequency (MHz)**	**LVL (dBm)**	**Correction Factor(dB)**	**ERP(dBm)**	**ERP(mW)**	**Polarization (H/V)**
Y	26797	824.7	-12.17	32.62	18.30	67.61	H
	26915	836.5	-12.22	32.52	18.15	65.31	H
	27033	848.3	-12.44	32.65	18.06	63.97	H
	26797	824.7	-18.02	32.76	12.59	18.16	V
	26915	836.5	-18.25	32.39	11.99	15.81	V
	27033	848.3	-18.26	32.54	12.13	16.33	V

LTE Band 26							
Channel Bandwidth: 1.4MHz / 16QAM							
Plane	**Channel**	**Frequency (MHz)**	**LVL (dBm)**	**Correction Factor(dB)**	**ERP(dBm)**	**ERP(mW)**	**Polarization (H/V)**
Y	26797	824.7	-12.87	32.62	17.60	57.54	H
	26915	836.5	-13.09	32.52	17.28	53.46	H
	27033	848.3	-13.09	32.65	17.41	55.08	H
	26797	824.7	-17.98	32.76	12.63	18.32	V
	26915	836.5	-18.17	32.39	12.07	16.11	V
	27033	848.3	-18.31	32.54	12.08	16.14	V

LTE Band 26							
Channel Bandwidth: 3MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26805	825.5	-12.36	32.62	18.11	64.71	H
	26915	836.5	-12.29	32.52	18.08	64.27	H
	27025	847.5	-12.51	32.65	17.99	62.95	H
	26805	825.5	-17.89	32.76	12.72	18.71	V
	26915	836.5	-18.22	32.39	12.02	15.92	V
	27025	847.5	-18.14	32.54	12.25	16.79	V

LTE Band 26							
Channel Bandwidth: 3MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26805	825.5	-12.84	32.62	17.63	57.94	H
	26915	836.5	-12.98	32.52	17.39	54.83	H
	27025	847.5	-12.96	32.65	17.54	56.75	H
	26805	825.5	-18.30	32.76	12.31	17.02	V
	26915	836.5	-18.37	32.39	11.87	15.38	V
	27025	847.5	-18.42	32.54	11.97	15.74	V

LTE Band 26							
Channel Bandwidth: 5MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26815	826.5	-11.80	32.62	18.67	73.62	H
	26915	836.5	-11.73	32.52	18.64	73.11	H
	27015	846.5	-12.34	32.65	18.16	65.46	H
	26815	826.5	-17.89	32.76	12.72	18.71	V
	26919	836.5	-18.12	32.39	12.12	16.29	V
	27015	846.5	-18.34	32.54	12.05	16.03	V

LTE Band 26							
Channel Bandwidth: 5MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26815	826.5	-12.92	32.62	17.55	56.89	H
	26915	836.5	-12.70	32.52	17.67	58.48	H
	27015	846.5	-12.85	32.65	17.65	58.21	H
	26815	826.5	-18.15	32.76	12.46	17.62	V
	26919	836.5	-18.26	32.39	11.98	15.78	V
	27015	846.5	-18.44	32.54	11.95	15.67	V

LTE Band 26							
Channel Bandwidth: 10MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26840	829	-11.66	32.62	18.81	76.03	H
	26915	836.5	-11.63	32.52	18.74	74.82	H
	26990	844	-11.51	32.65	18.99	79.25	H
	26840	829	-17.73	32.76	12.88	19.41	V
	26919	836.5	-18.19	32.39	12.05	16.03	V
	26990	844	-17.95	32.54	12.44	17.54	V

LTE Band 26							
Channel Bandwidth: 10MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26840	829	-12.75	32.62	17.72	59.16	H
	26915	836.5	-12.61	32.52	17.76	59.70	H
	26990	844	-12.78	32.65	17.72	59.16	H
	26840	829	-18.11	32.76	12.50	17.78	V
	26919	836.5	-18.34	32.39	11.90	15.49	V
	26990	844	-18.51	32.54	11.88	15.42	V

LTE Band 26							
Channel Bandwidth: 15MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26865	831.5	-11.60	32.62	18.87	77.09	H
	26915	836.5	-11.46	32.52	18.91	77.80	H
	26965	841.5	-11.77	32.65	18.73	74.64	H
	26865	831.5	-17.89	32.76	12.72	18.71	V
	26915	836.5	-18.16	32.39	12.08	16.14	V
	26965	841.5	-18.27	32.54	12.12	16.29	V

LTE Band 26							
Channel Bandwidth: 15MHz / 16QAM							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26865	831.5	-12.46	32.62	18.01	63.24	H
	26915	836.5	-12.41	32.52	17.96	62.52	H
	26965	841.5	-12.61	32.65	17.89	61.52	H
	26865	831.5	-18.07	32.76	12.54	17.95	V
	26915	836.5	-18.35	32.39	11.89	15.45	V
	26965	841.5	-18.56	32.54	11.83	15.24	V

MODE B

CDMA							
Plane	**Channel**	**Frequency (MHz)**	**LVL (dBm)**	**Correction Factor(dB)**	**ERP(dBm)**	**ERP(mW)**	**Polarization (H/V)**
Y	1013	824.7	-11.89	32.62	18.58	72.11	H
	384	836.52	-12.01	32.52	18.36	68.55	H
	777	848.31	-11.70	32.65	18.80	75.86	H
	1013	824.7	-17.90	32.76	12.71	18.66	V
	384	836.52	-17.49	32.39	12.75	18.84	V
	777	848.31	-17.22	32.54	13.17	20.75	V

LTE Band 26							
Channel Bandwidth: 15MHz / QPSK							
Plane	**Channel**	**Frequency (MHz)**	**LVL (dBm)**	**Correction Factor(dB)**	**ERP(dBm)**	**ERP(mW)**	**Polarization (H/V)**
Y	26865	831.5	-12.14	32.62	18.33	68.08	H
	26915	836.5	-11.73	32.52	18.64	73.11	H
	26965	841.5	-12.01	32.65	18.49	70.63	H
	26865	831.5	-18.31	32.76	12.30	16.98	V
	26915	836.5	-18.91	32.39	11.33	13.58	V
	26965	841.5	-18.88	32.54	11.51	14.16	V

LTE Band 26							
Channel Bandwidth: 15MHz / 16QAM							
Plane	**Channel**	**Frequency (MHz)**	**LVL (dBm)**	**Correction Factor(dB)**	**ERP(dBm)**	**ERP(mW)**	**Polarization (H/V)**
Y	26865	831.5	-12.89	32.62	17.58	57.28	H
	26915	836.5	-12.92	32.52	17.45	55.59	H
	26965	841.5	-13.15	32.65	17.35	54.33	H
	26865	831.5	-18.90	32.76	11.71	14.83	V
	26915	836.5	-19.15	32.39	11.09	12.85	V
	26965	841.5	-19.32	32.54	11.07	12.79	V

4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

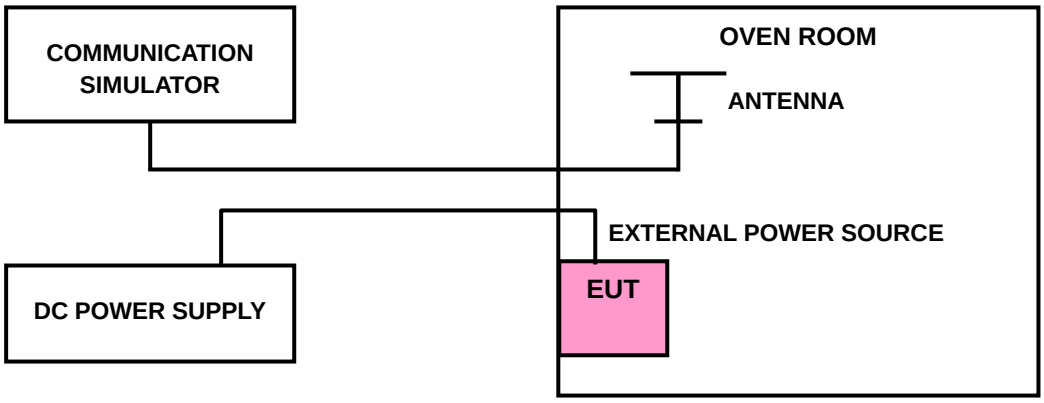
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.2.2 TEST PROCEDURE

a. 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.
b. 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.
c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5℃ 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)
	CDMA	LTE Band 26					
		1.4MHz	3MHz	5MHz	10MHz	15MHz	
3.8	-0.003	0.002	0.004	0.002	-0.004	0.003	2.5
3.6	-0.006	-0.003	-0.003	-0.004	-0.003	-0.005	2.5
4.35	-0.002	0.005	0.005	-0.005	-0.003	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

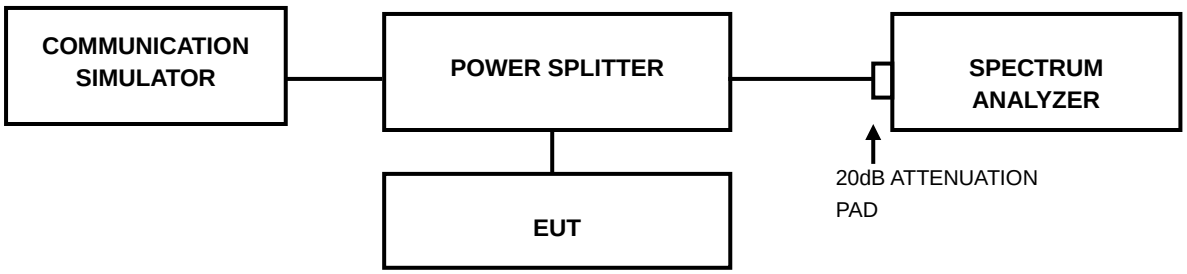
TEMP. (℃)	FREQUENCY ERROR (ppm)						LIMIT (ppm)
	CDMA	LTE Band 26					
		1.4MHz	3MHz	5MHz	10MHz	15MHz	
-30	-0.002	-0.002	0.002	-0.001	0.005	-0.002	2.5
-20	0.004	0.002	0.004	0.001	-0.001	-0.007	2.5
-10	-0.002	0.003	-0.003	-0.003	-0.006	-0.001	2.5
0	-0.003	-0.001	0.002	0.007	0.003	-0.007	2.5
10	-0.003	-0.002	0.003	0.002	-0.004	0.001	2.5
20	-0.004	-0.001	0.004	-0.002	0.006	0.002	2.5
30	-0.005	0.001	-0.002	0.002	-0.001	0.002	2.5
40	-0.003	-0.002	-0.003	0.002	0.003	-0.002	2.5
50	0.002	-0.003	-0.002	-0.003	0.003	-0.004	2.5
60	-0.003	-0.003	-0.002	-0.003	0.003	-0.002	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.

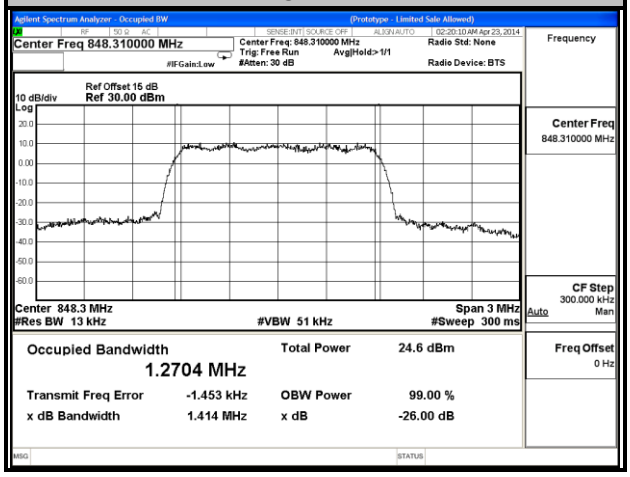
4.3.2 TEST SETUP



4.3.3 TEST RESULTS

CDMA			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	26dB BANDWIDTH (MHz)
1013	824.70	1.2692	1.409
384	836.52	1.2657	1.405
777	848.31	1.2704	1.414

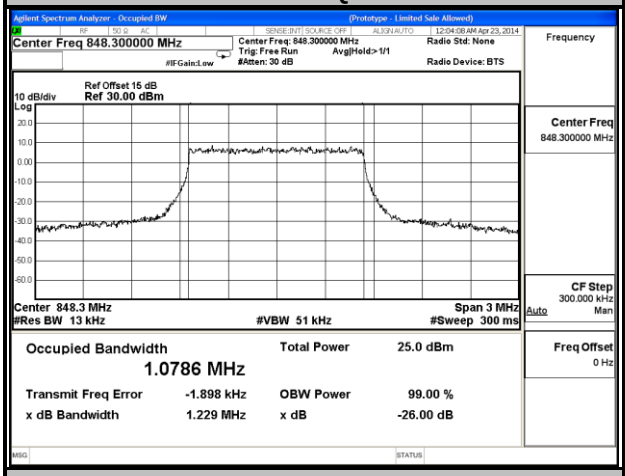
SPECTRUM PLOT OF WORST VALUE
CDMA



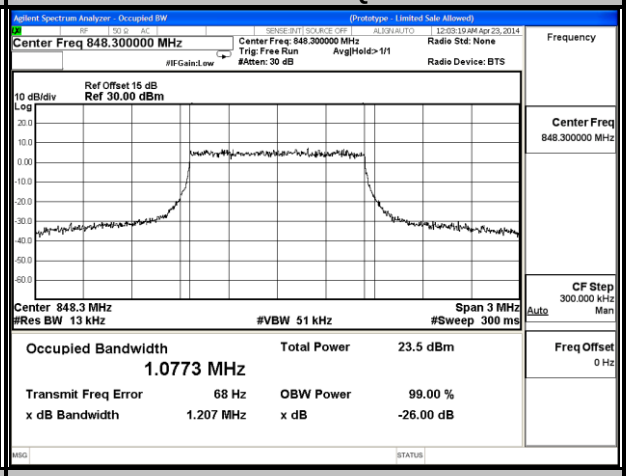
LTE BAND 26							
CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26797	824.7	1.0765	1.0766	26805	825.5	2.6778	2.6817
26915	836.5	1.0777	1.0769	26915	836.5	2.6781	2.6809
27033	848.3	1.0786	1.0773	27025	847.5	2.6827	2.6805
CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26797	824.7	1.220	1.216	26805	825.5	2.880	2.885
26915	836.5	1.221	1.224	26915	836.5	2.875	2.881
27033	848.3	1.229	1.207	27025	847.5	2.879	2.889

SPECTRUM PLOT OF WORST VALUE

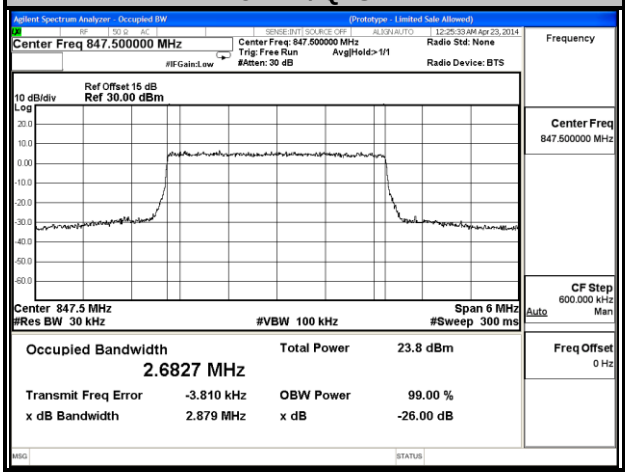
1.4MHz / QPSK



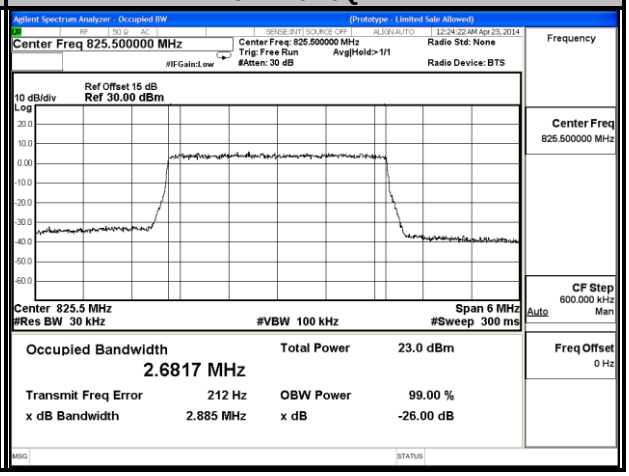
1.4MHz / 16QAM



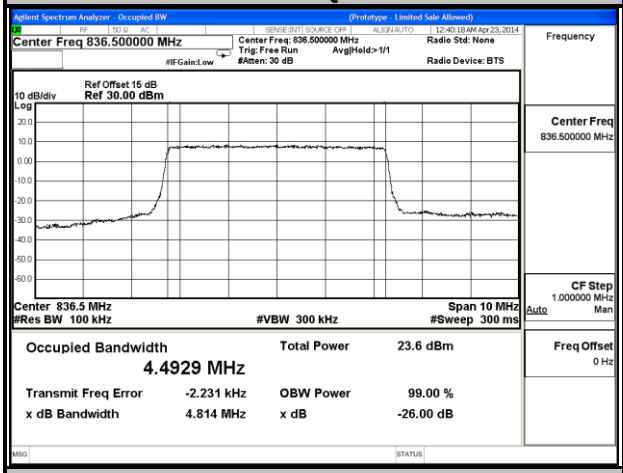
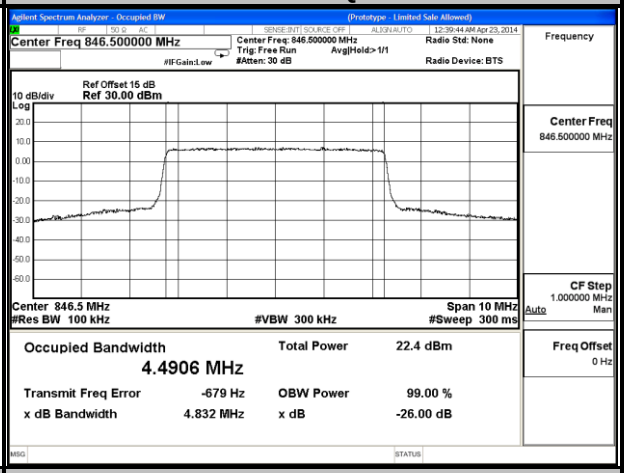
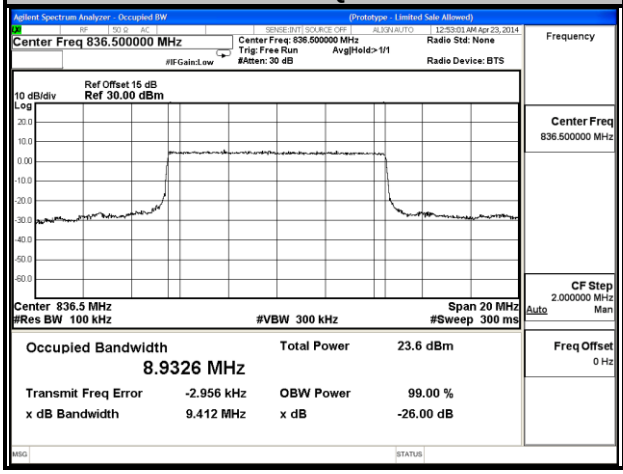
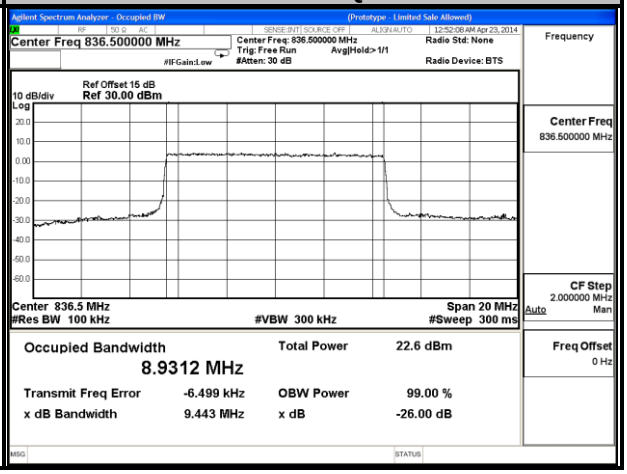
3MHz / QPSK



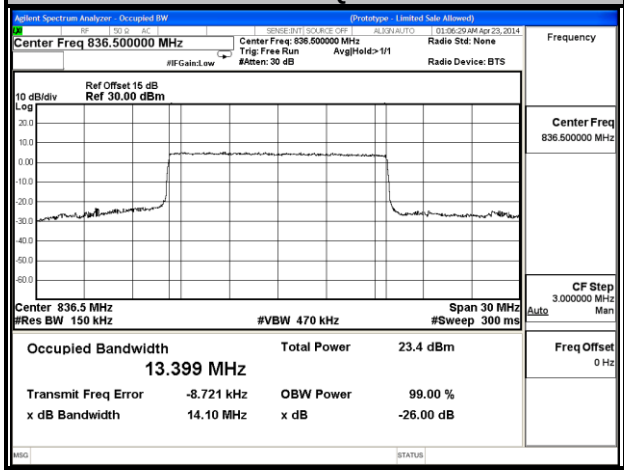
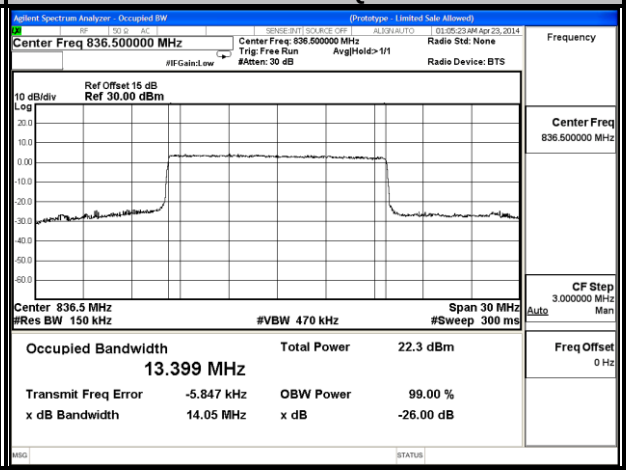
3MHz / 16QAM



LTE BAND 26							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26815	826.5	4.4887	4.4852	26840	829.0	8.9213	8.9267
26915	836.5	4.4929	4.4853	26915	836.5	8.9326	8.9312
27015	846.5	4.4907	4.4906	26990	844.0	8.9241	8.9284
CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26815	826.5	4.818	4.793	26840	829.0	9.413	9.422
26915	836.5	4.814	4.827	26915	836.5	9.412	9.443
27015	846.5	4.837	4.832	26990	844.0	9.373	9.394

SPECTRUM PLOT OF WORST VALUE	
5MHz / QPSK	5MHz / 16QAM
	
10MHz / QPSK	10MHz / 16QAM
	

LTE BAND 26							
CHANNEL BANDWIDTH: 15MHz							
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	26dB BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26865	831.5	13.382	13.377	26865	831.5	14.00	13.96
26915	836.5	13.399	13.399	26915	836.5	14.10	14.05
26965	841.5	13.384	13.381	26965	841.5	14.00	14.05

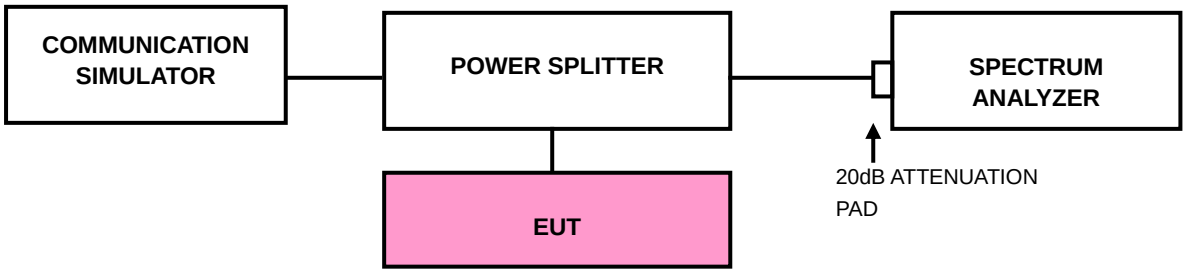
SPECTRUM PLOT OF WORST VALUE	
15MHz / QPSK	15MHz / 16QAM
	

4.4 BAND EDGE MEASUREMENT

4.4.1 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.

4.4.2 TEST SETUP

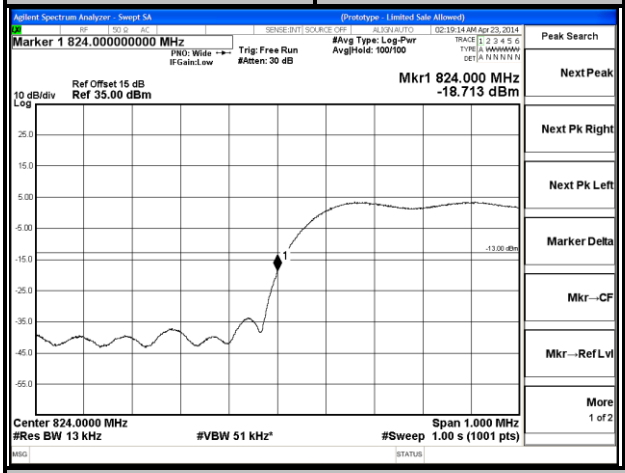


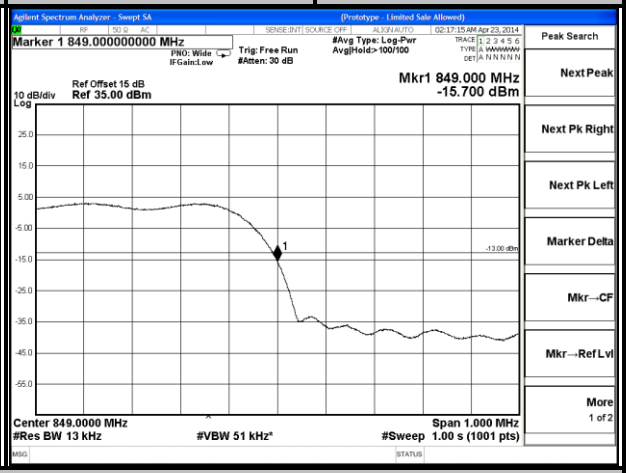
4.4.3 TEST PROCEDURES

a. All measurements were done at low and high operational frequency range.
b. 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 (CDMA/LTE Channel Bandwidth 1.4MHz).
c. 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 Channel Bandwidth 3MHz).
d. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Channel Bandwidth 5MHz/10MHz).
e. 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 Channel Bandwidth 15MHz).
f. Record the max trace plot into the test report.

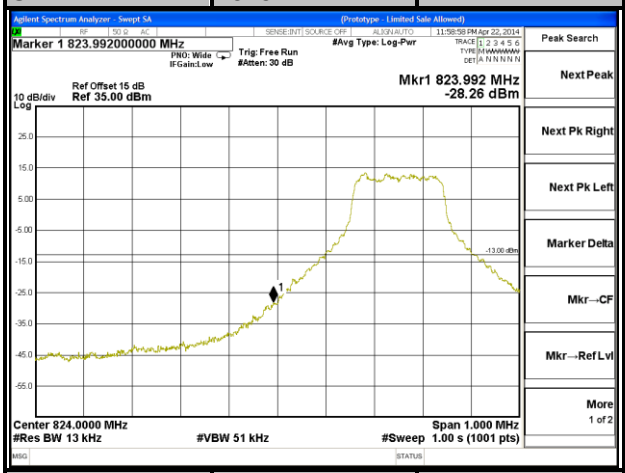
4.4.4 TEST RESULTS

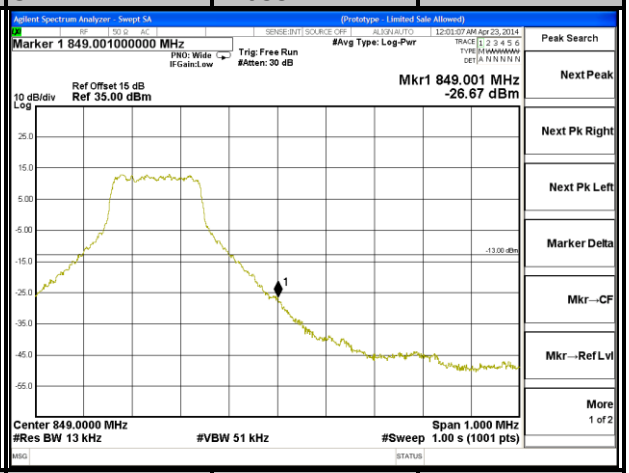
CDMA			
CHANNEL	1013	CHANNEL	777



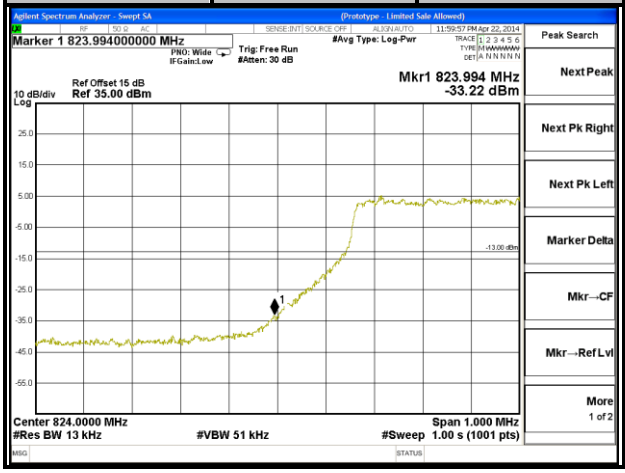


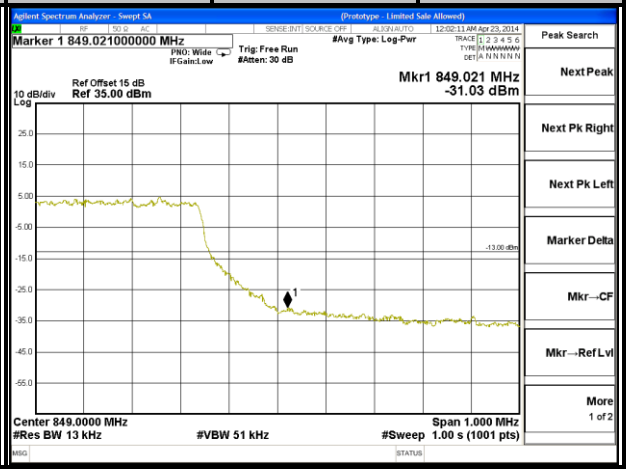
LTE BAND 26					
CHANNEL BANDWIDTH: 1.4MHz					
CHANNEL	26797	1 RB	CHANNEL	27033	1 RB

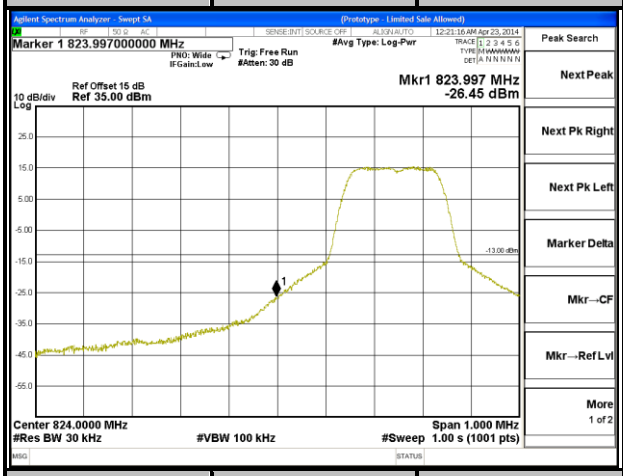
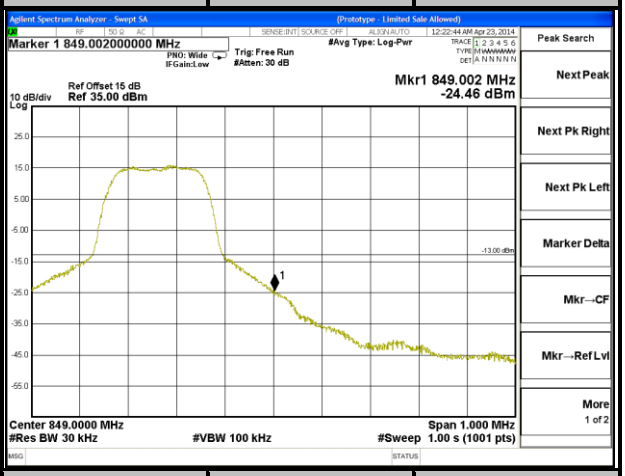
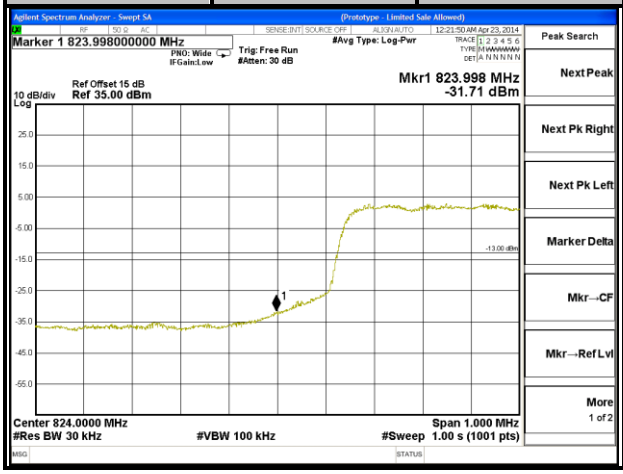
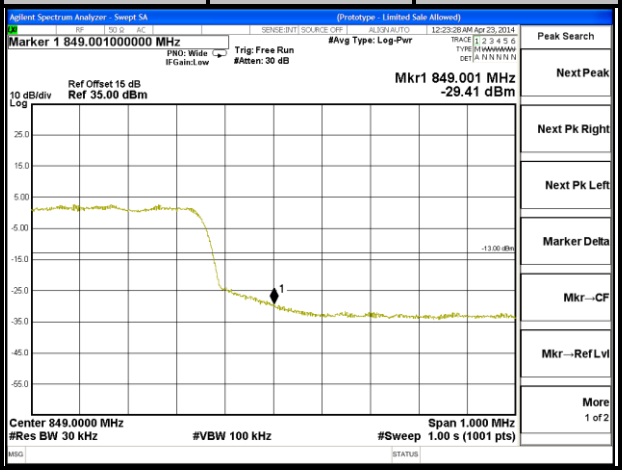


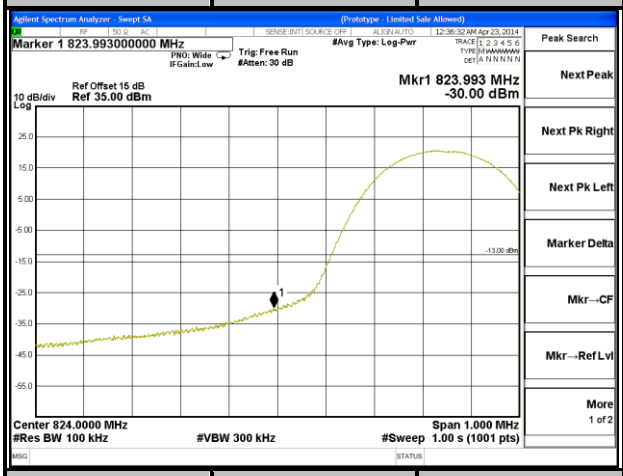
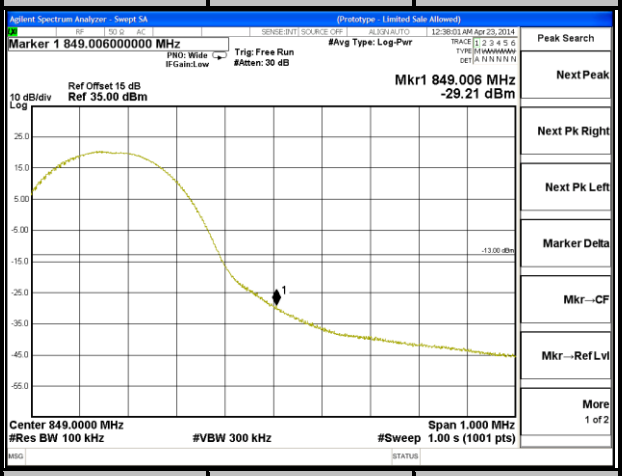
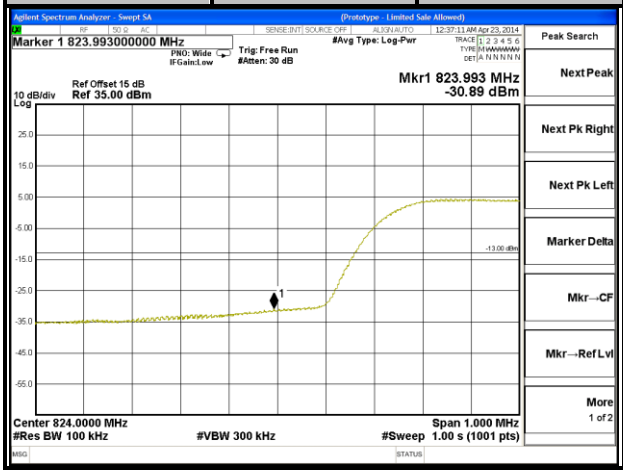
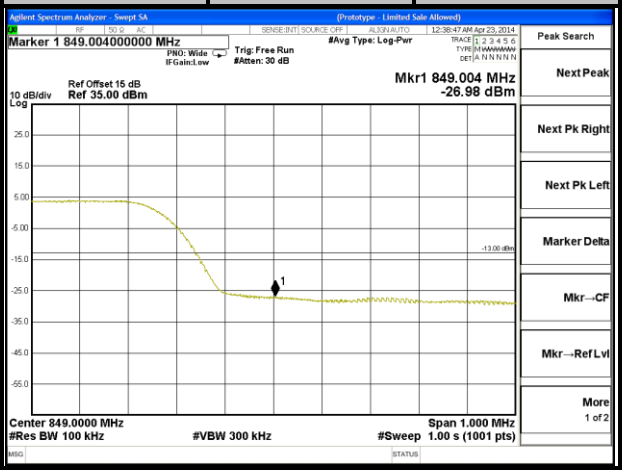


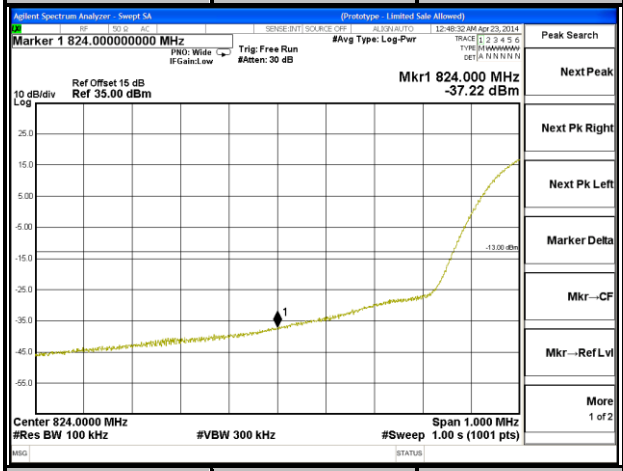
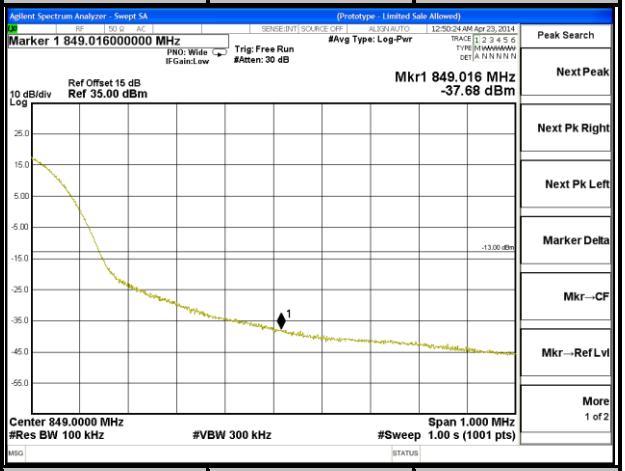
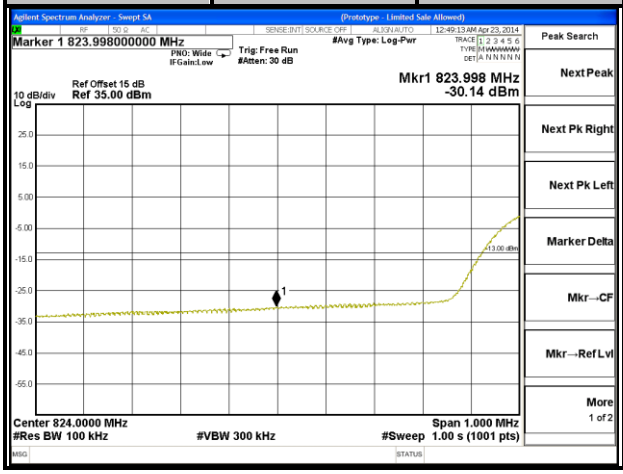
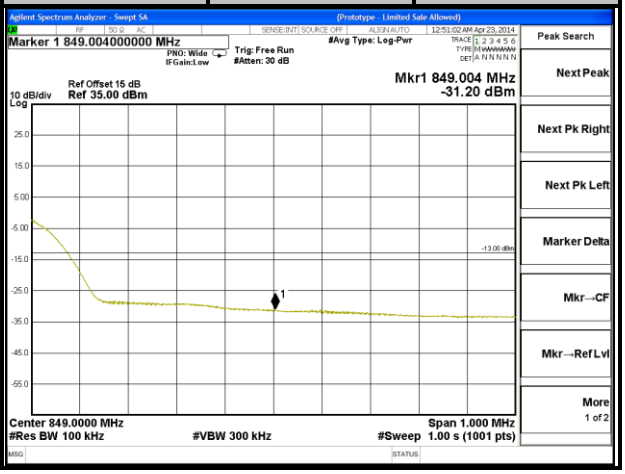
CHANNEL	26797	6 RB	CHANNEL	27033	6 RB

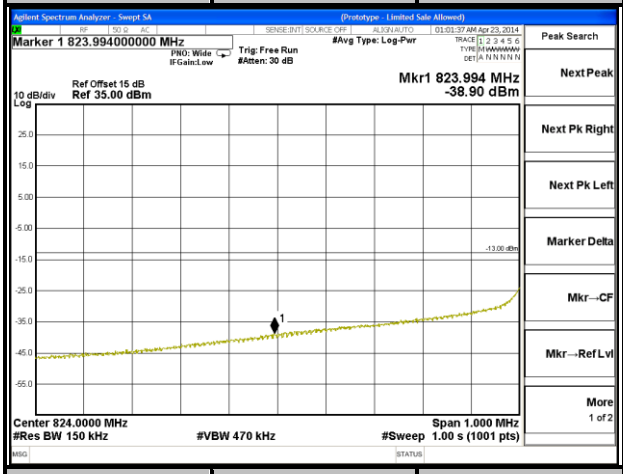
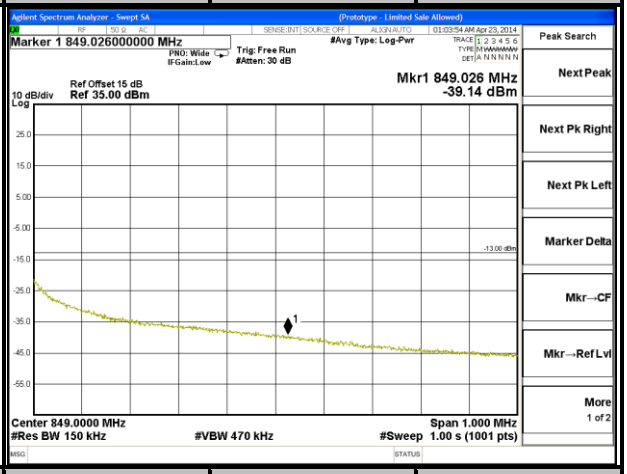
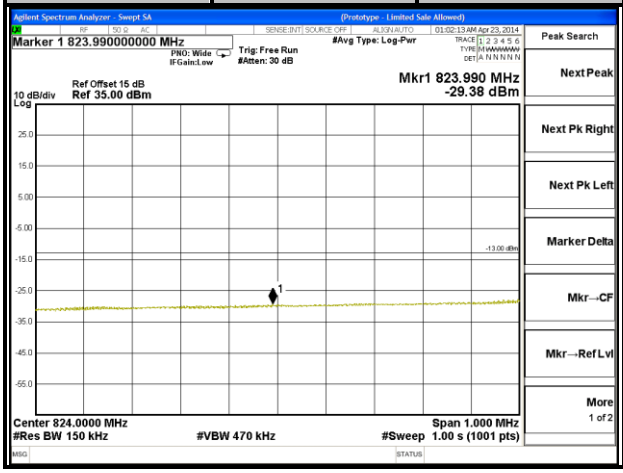
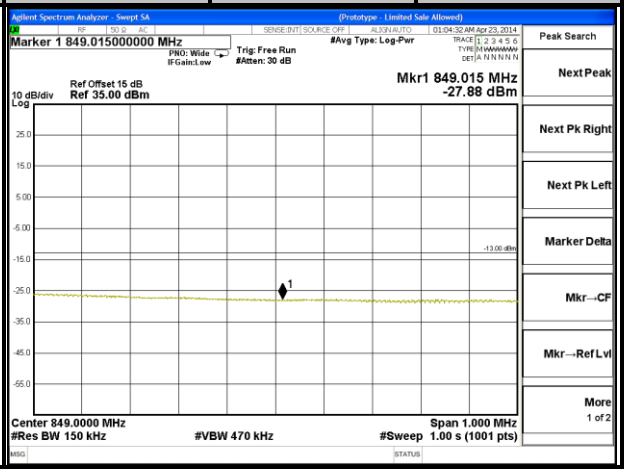




LTE BAND 26					
CHANNEL BANDWIDTH: 3MHz					
CHANNEL	26805	1 RB	CHANNEL	27025	1 RB
					
CHANNEL	26805	15 RB	CHANNEL	27025	15 RB
					

LTE BAND 26					
CHANNEL BANDWIDTH: 5MHz					
CHANNEL	26815	1 RB	CHANNEL	27015	1 RB
					
CHANNEL	26815	25 RB	CHANNEL	27015	25 RB
					

LTE Band 26					
CHANNEL BANDWIDTH: 10MHz					
CHANNEL	26840	1 RB	CHANNEL	26990	1 RB
					
CHANNEL	26840	50 RB	CHANNEL	26990	50 RB
					

LTE Band 26					
CHANNEL BANDWIDTH: 10MHz					
CHANNEL	26865	1 RB	CHANNEL	26965	1 RB
					
CHANNEL	26865	75 RB	CHANNEL	26965	75 RB
					

4.5 CONDUCTED SPURIOUS EMISSIONS

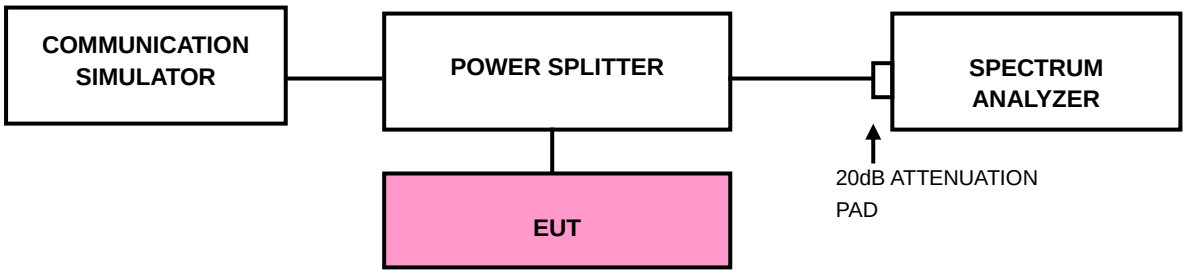
4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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.

4.5.2 TEST PROCEDURE

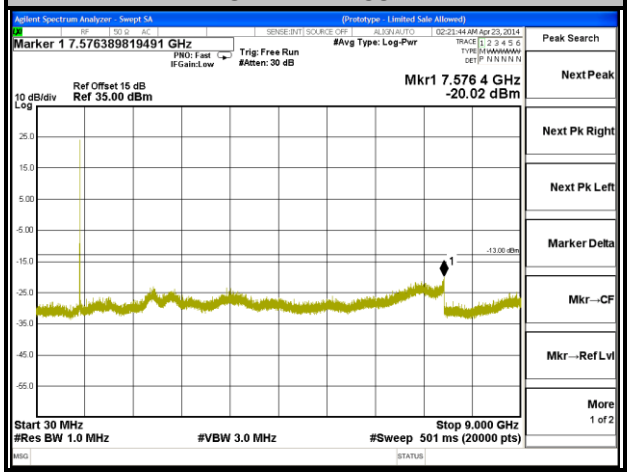
a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
b. Measuring frequency range is from 30 MHz to 9GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.5.3 TEST SETUP



4.5.4 TEST RESULTS

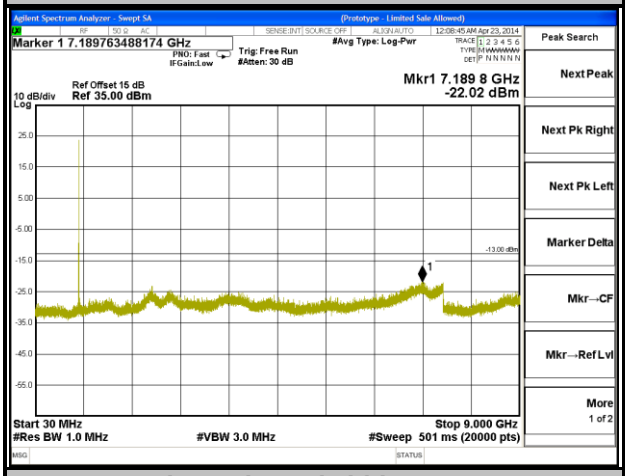
CDMA
CHANNEL 384



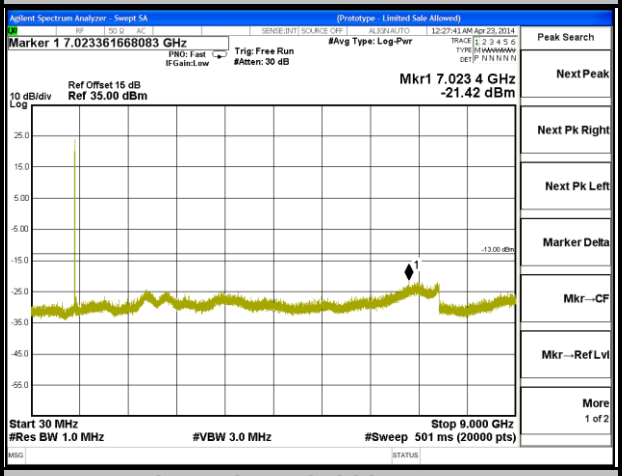
LTE BAND 26

CHANNEL 26915

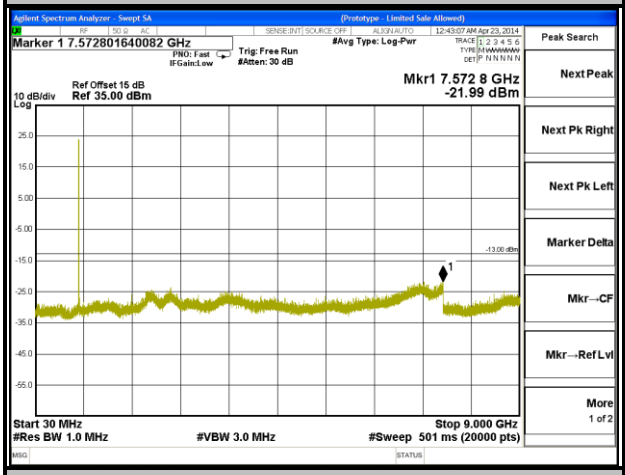
Channel Bandwidth: 1.4MHz



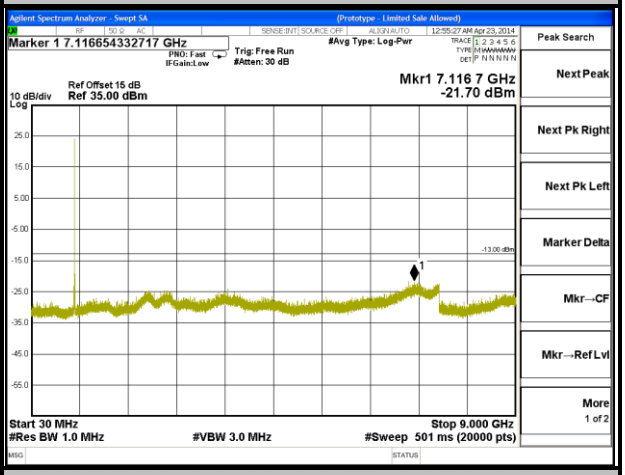
Channel Bandwidth: 3MHz



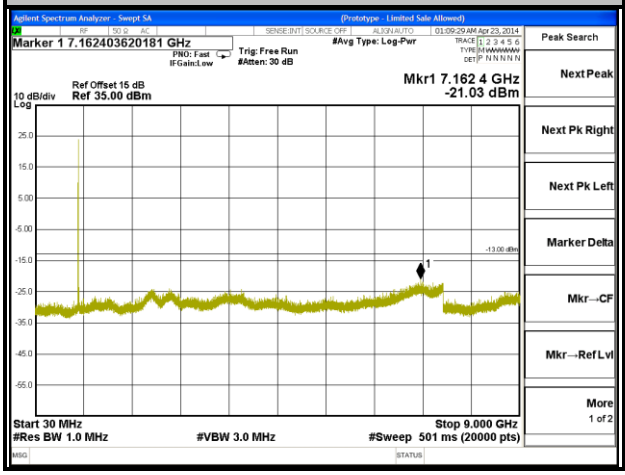
Channel Bandwidth: 5MHz



Channel Bandwidth: 10MHz



Channel Bandwidth: 15MHz



4.6 RADIATED EMISSION MEASUREMENT

4.6.1 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.

4.6.2 TEST PROCEDURES

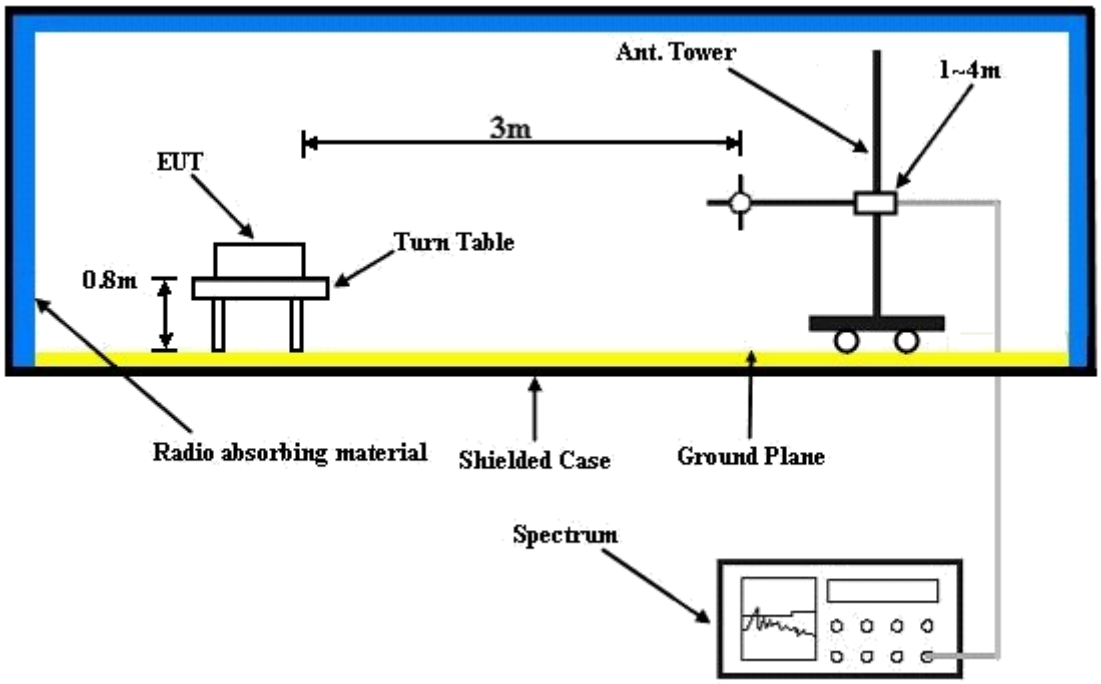
a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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 = Output power level of S.G – TX cable loss + 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 power = E.I.R.P power - 2.15dBi.

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

4.6.3 DEVIATION FROM TEST STANDARD

No deviation

4.6.4 TEST SETUP



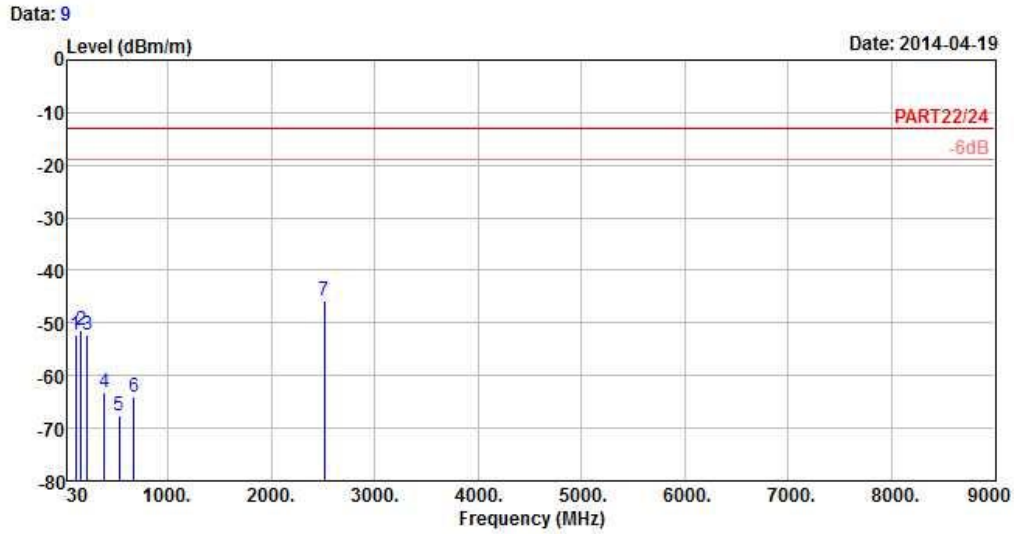
For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.6.5 TEST RESULTS

MODE A

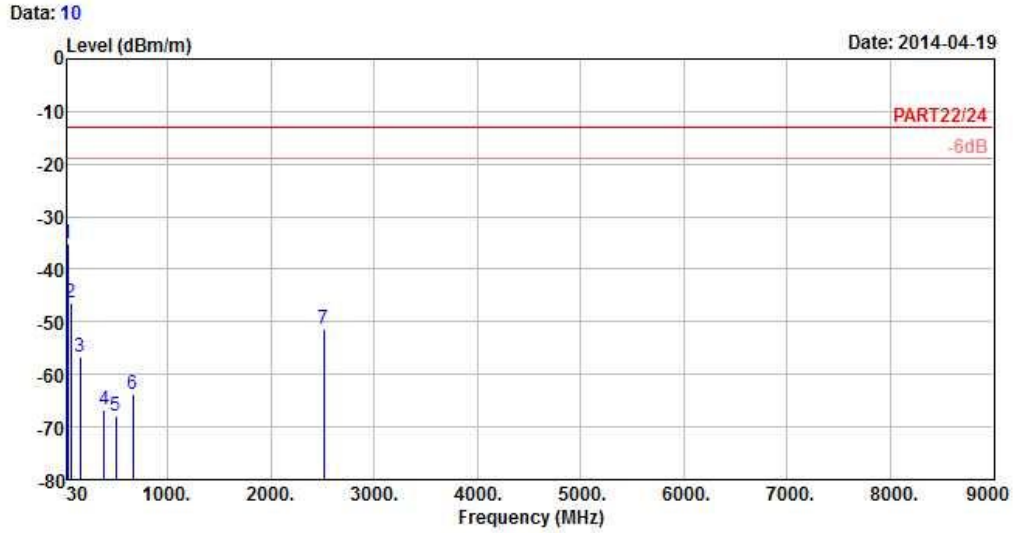
CDMA:

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : 1XRTT850 Link
Tested by: Johnson Liao
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	106.41	-52.30	-41.75	-13.00	-39.30	-10.55	Peak
2	156.63	-51.48	-45.01	-13.00	-38.48	-6.47	Peak
3	218.73	-52.14	-45.06	-13.00	-39.14	-7.08	Peak
4	381.90	-63.25	-57.48	-13.00	-50.25	-5.77	Peak
5	531.00	-67.55	-65.28	-13.00	-54.55	-2.27	Peak
6	668.20	-64.02	-64.89	-13.00	-51.02	0.87	Peak
7 pp	2509.56	-45.71	-35.72	-13.00	-32.71	-9.99	Peak



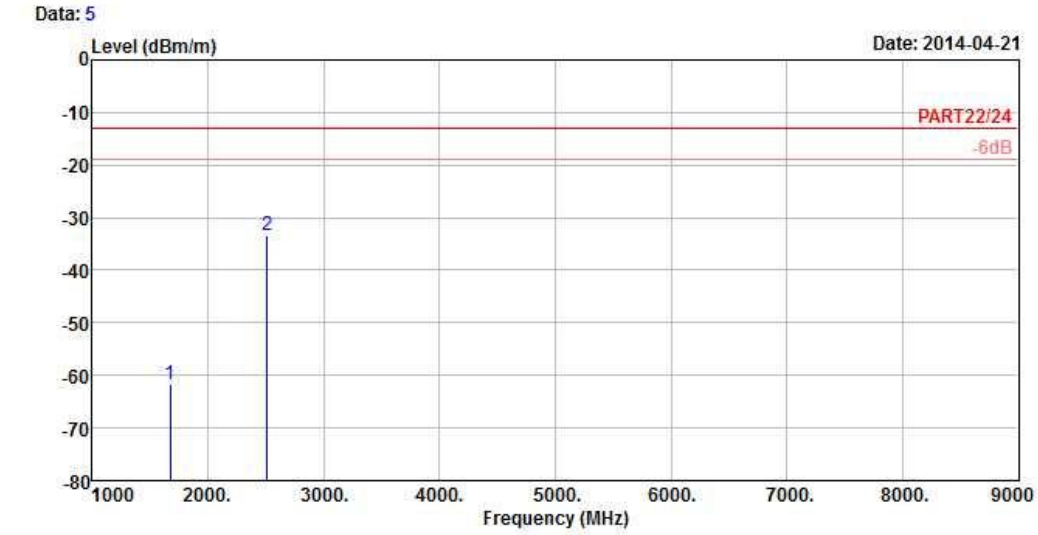
Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : 1XRTT850 Link
Tested by: Johnson Liao
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	31.35	-35.10	-35.44	-13.00	-22.10	0.34	Peak
2	63.48	-46.27	-38.87	-13.00	-33.27	-7.40	Peak
3	153.12	-56.79	-50.38	-13.00	-43.79	-6.41	Peak
4	381.90	-66.71	-60.94	-13.00	-53.71	-5.77	Peak
5	496.00	-67.84	-64.63	-13.00	-54.84	-3.21	Peak
6	663.30	-63.84	-64.63	-13.00	-50.84	0.79	Peak
7	2509.56	-51.38	-41.39	-13.00	-38.38	-9.99	Peak

LTE BAND 26

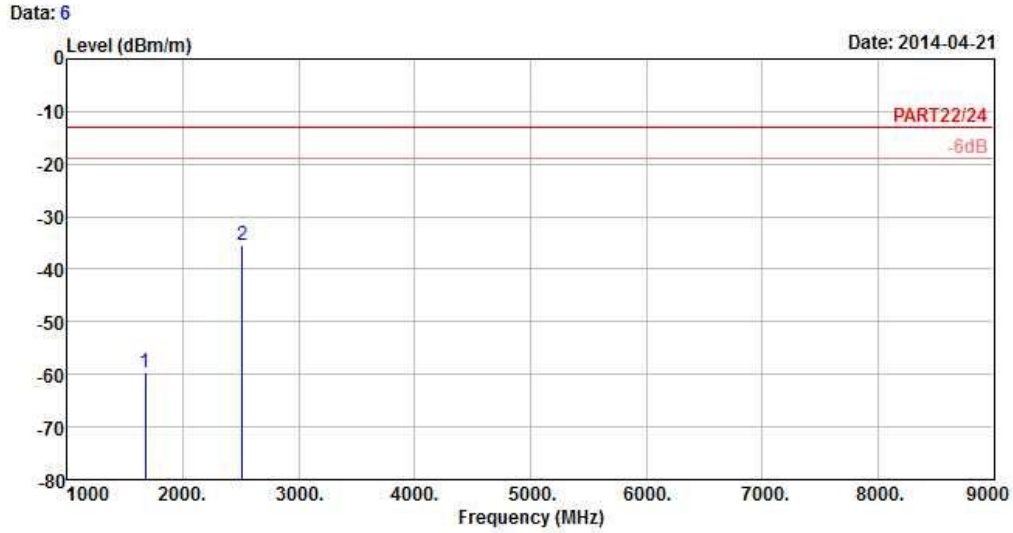
CHANNEL BANDWIDTH: 1.4MHz / QPSK

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : LTE Band 26_1.4M_QPSK(1,2) Link
Tested by: Anson Lin
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-61.57	-47.73	-13.00	-48.57	-13.84	Peak
2 pp	2509.50	-33.45	-23.46	-13.00	-20.45	-9.99	Peak



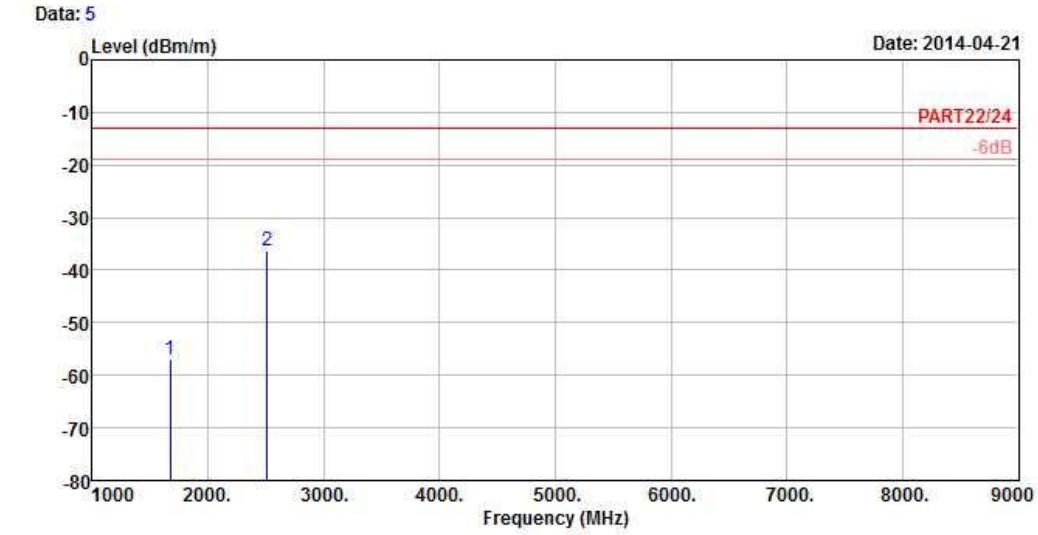
Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : LTE Band 26_1.4M_QPSK(1,2) Link
Tested by: Anson Lin
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-59.74	-45.90	-13.00	-46.74	-13.84	Peak
2 pp	2509.50	-35.44	-25.45	-13.00	-22.44	-9.99	Peak

LTE BAND 26

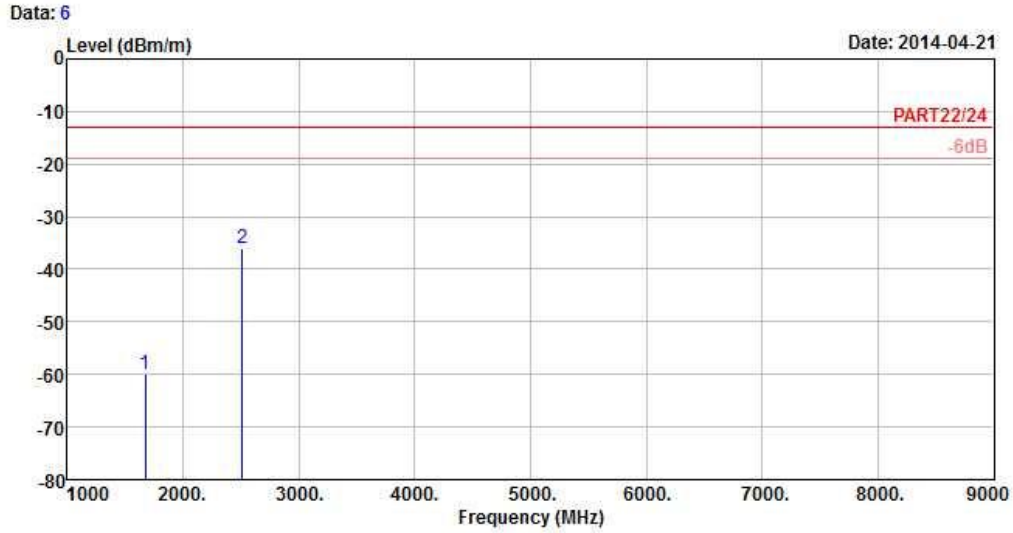
CHANNEL BANDWIDTH: 3MHz / QPSK

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : LTE Band 26_3M_QPSK(1,7) Link
Tested by: Anson Lin
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-57.01	-43.17	-13.00	-44.01	-13.84	Peak
2 pp	2509.50	-36.19	-26.20	-13.00	-23.19	-9.99	Peak



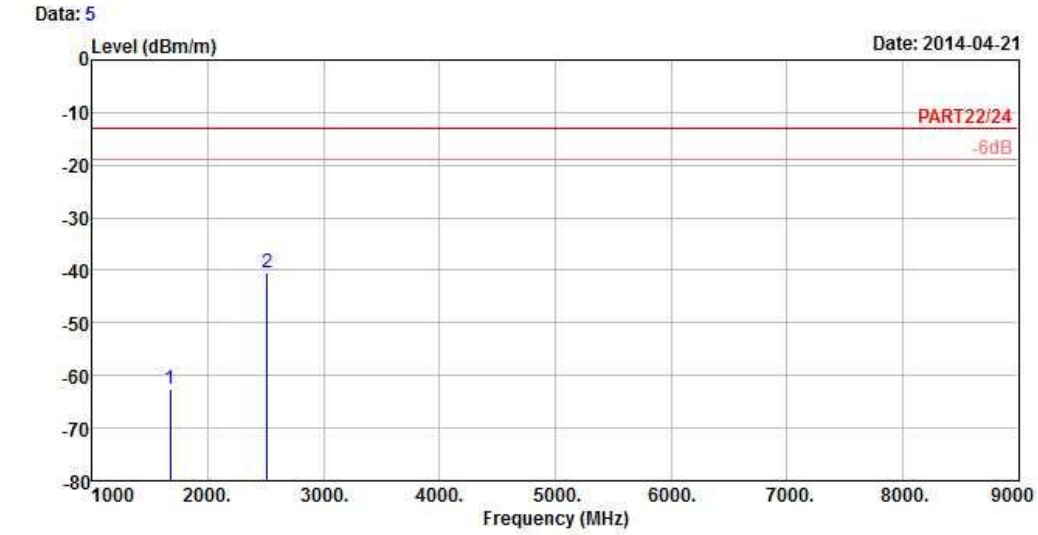
Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : LTE Band 26_3M_QPSK(1,7) Link
Tested by: Anson Lin
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-59.98	-46.14	-13.00	-46.98	-13.84	Peak
2 pp	2509.50	-35.87	-25.88	-13.00	-22.87	-9.99	Peak

LTE BAND 26

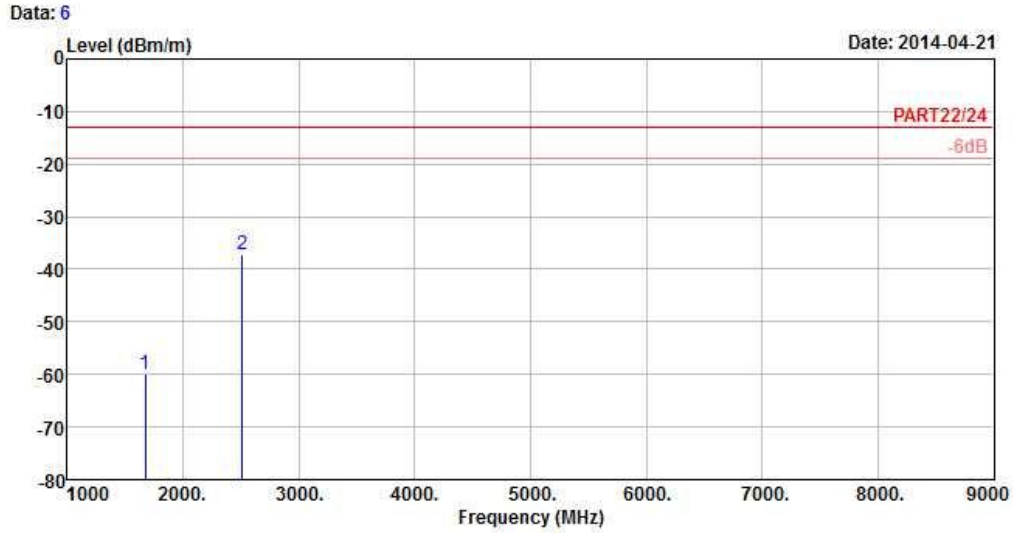
CHANNEL BANDWIDTH: 5MHz / QPSK

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : LTE Band 26_5M_QPSK(1,12) Link
Tested by: Anson Lin
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-62.58	-48.74	-13.00	-49.58	-13.84	Peak
2 pp	2509.50	-40.54	-30.55	-13.00	-27.54	-9.99	Peak



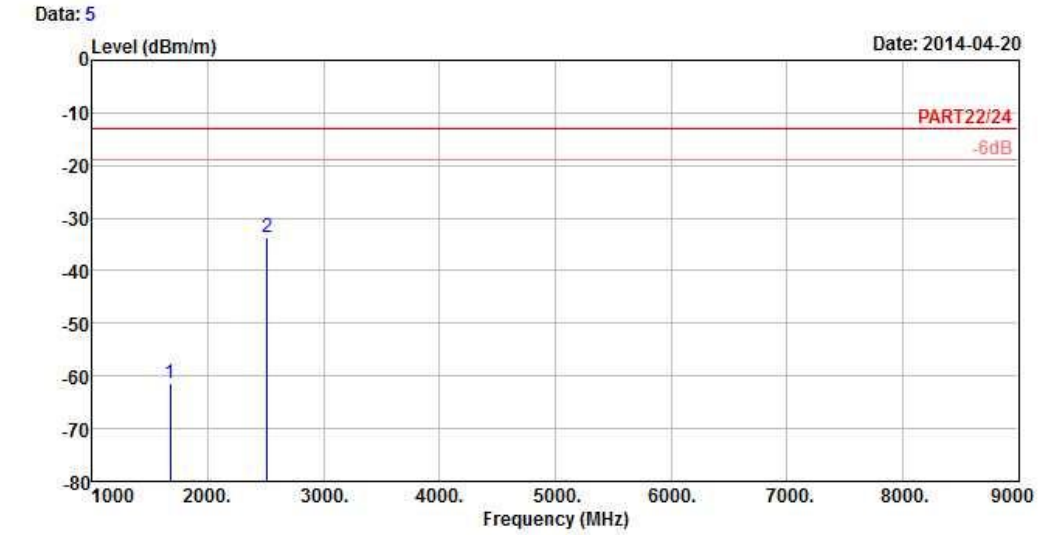
Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : LTE Band 26_5M_QPSK(1,12) Link
Tested by: Anson Lin
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-60.07	-46.23	-13.00	-47.07	-13.84	Peak
2 pp	2509.50	-37.12	-27.13	-13.00	-24.12	-9.99	Peak

LTE BAND 26

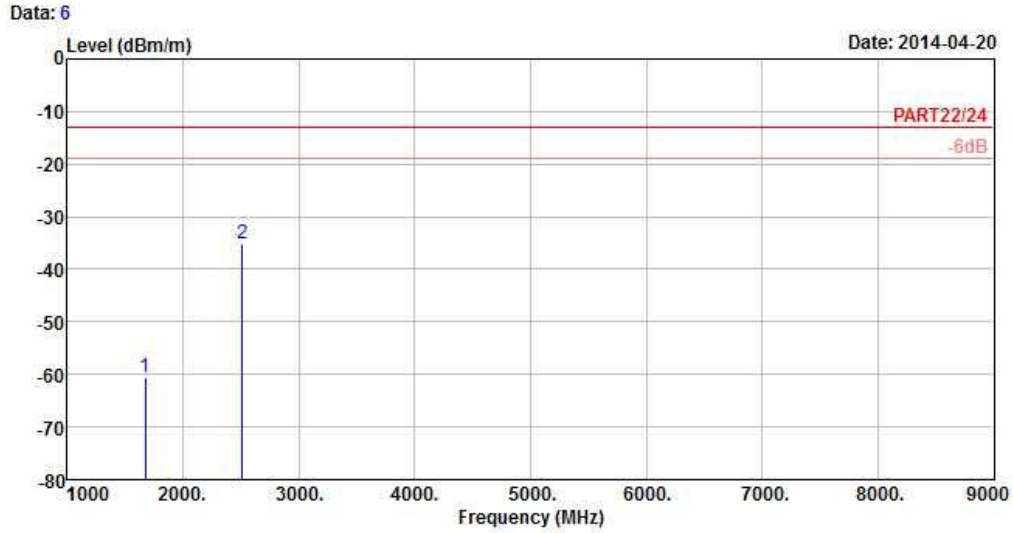
CHANNEL BANDWIDTH: 10MHz / QPSK

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : LTE Band 26_10M_QPSK(1,24) Link
Tested by: PeterWeng
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-61.42	-47.58	-13.00	-48.42	-13.84	Peak
2 pp	2509.50	-33.51	-23.52	-13.00	-20.51	-9.99	Peak



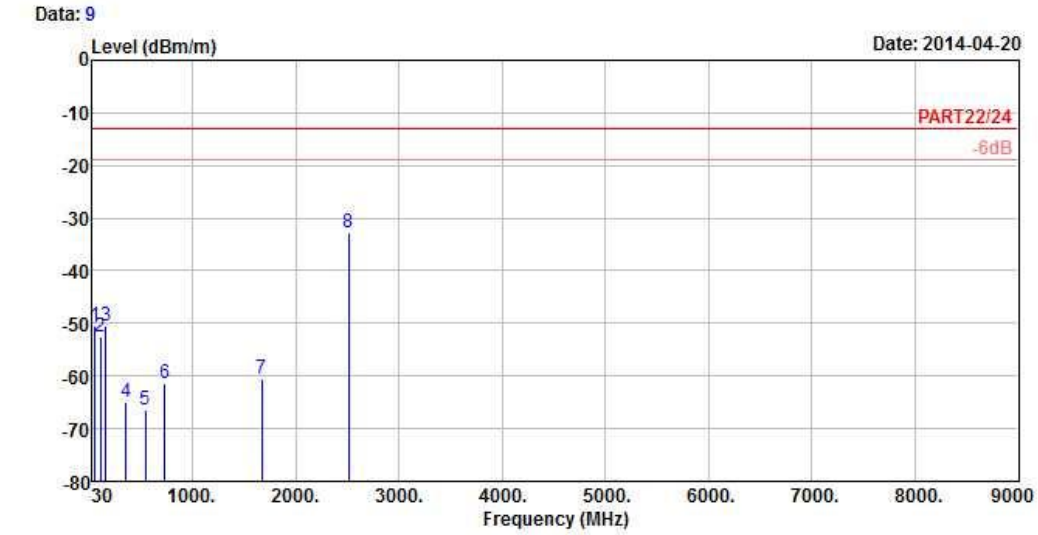
Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : LTE Band 26_10M_QPSK(1,24) Link
Tested by: PeterWeng
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-60.48	-46.64	-13.00	-47.48	-13.84	Peak
2 pp	2509.50	-35.11	-25.12	-13.00	-22.11	-9.99	Peak

LTE BAND 26

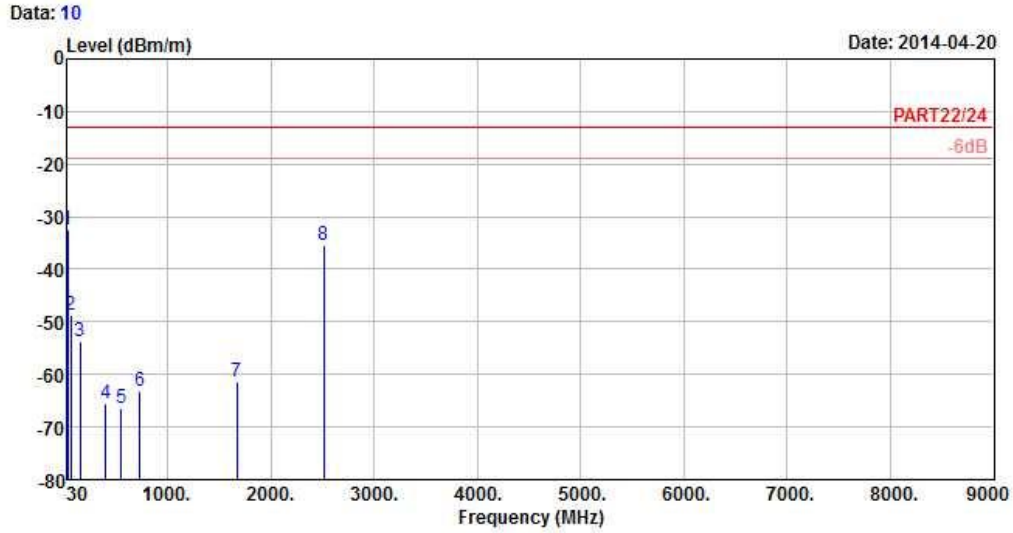
CHANNEL BANDWIDTH: 15MHz / QPSK

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : LTE Band 26_15M_QPSK(1,37) Link
Tested by: PeterWeng
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	58.08	-50.55	-44.75	-13.00	-37.55	-5.80	Peak
2	104.25	-52.67	-42.17	-13.00	-39.67	-10.50	Peak
3	157.71	-50.55	-44.07	-13.00	-37.55	-6.48	Peak
4	355.30	-65.04	-59.07	-13.00	-52.04	-5.97	Peak
5	546.40	-66.50	-64.66	-13.00	-53.50	-1.84	Peak
6	734.70	-61.35	-63.03	-13.00	-48.35	1.68	Peak
7	1673.00	-60.37	-46.53	-13.00	-47.37	-13.84	Peak
8 pp	2509.50	-32.90	-22.91	-13.00	-19.90	-9.99	Peak



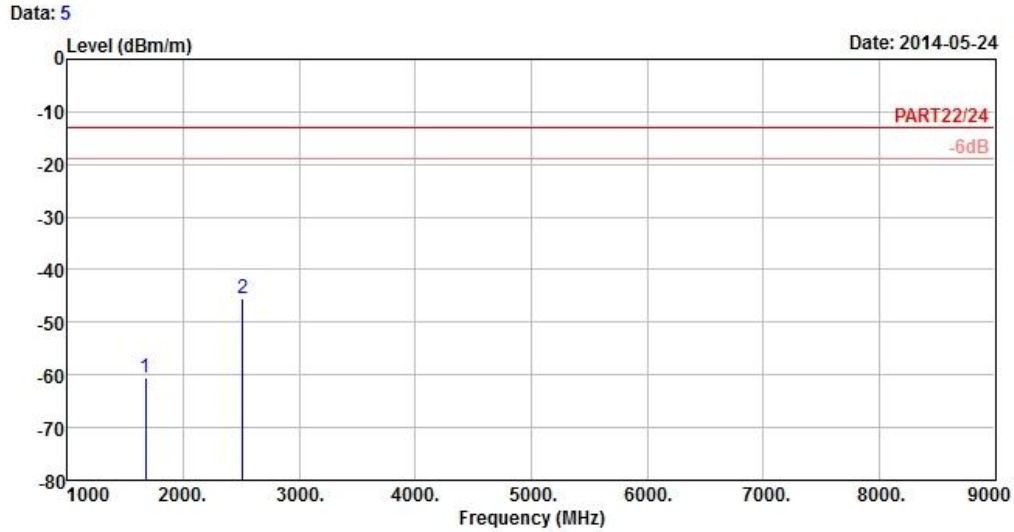
Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : LTE Band 26_15M_QPSK(1,37) Link
Tested by: PeterWeng
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	31.89	-32.47	-32.08	-13.00	-19.47	-0.39	Peak
2	64.83	-48.73	-41.01	-13.00	-35.73	-7.72	Peak
3	152.04	-53.58	-47.19	-13.00	-40.58	-6.39	Peak
4	398.00	-65.48	-59.83	-13.00	-52.48	-5.65	Peak
5	552.70	-66.43	-64.78	-13.00	-53.43	-1.65	Peak
6	729.10	-63.09	-64.74	-13.00	-50.09	1.65	Peak
7	1673.00	-61.30	-47.46	-13.00	-48.30	-13.84	Peak
8	2509.50	-35.54	-25.55	-13.00	-22.54	-9.99	Peak

MODE B

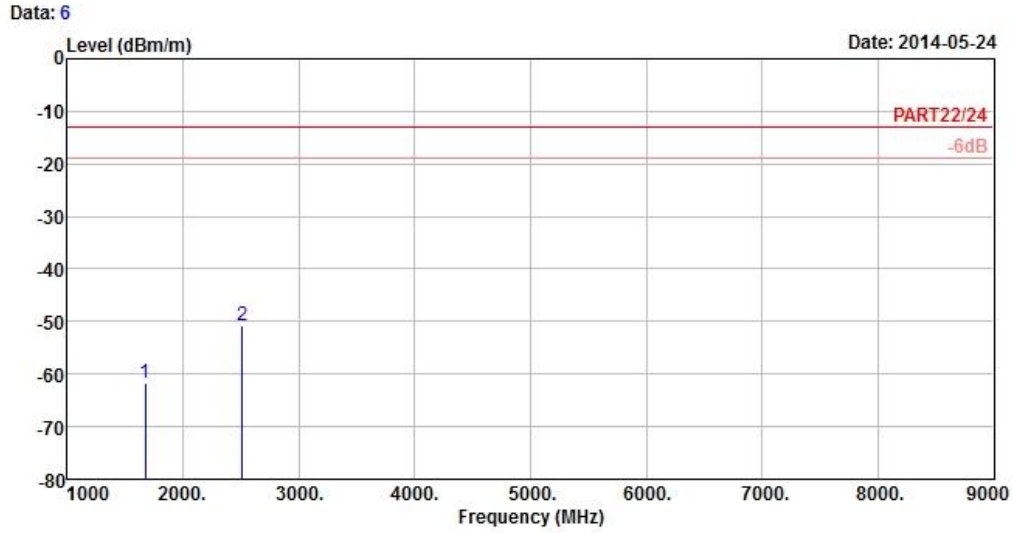
CDMA:

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : 1xRTT850 Link
Tested by: PeterWeng
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.04	-60.42	-46.58	-13.00	-47.42	-13.84	Peak
2 pp	2509.56	-45.33	-35.34	-13.00	-32.33	-9.99	Peak



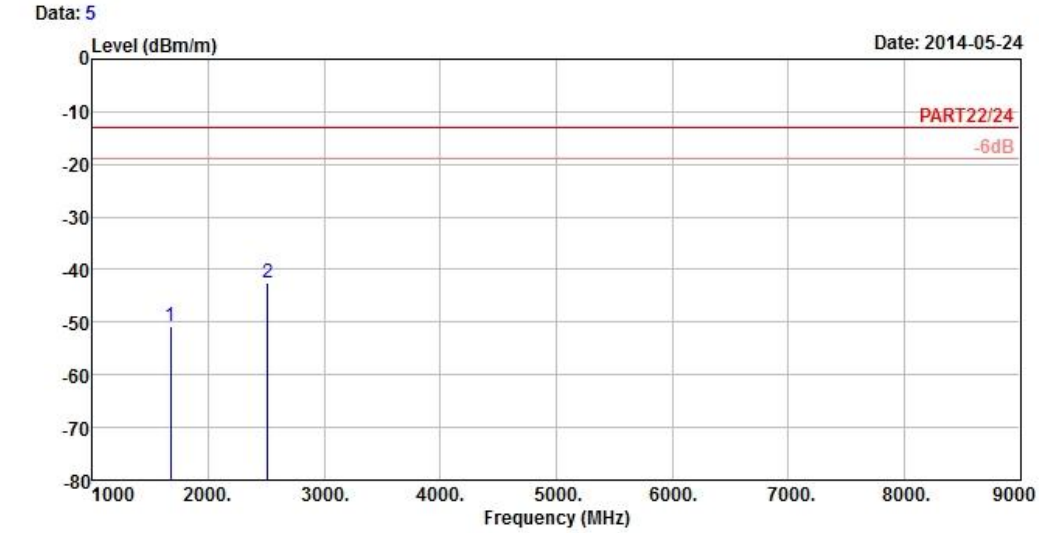
Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : 1xRTT850 Link
Tested by: PeterWeng
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.04	-61.79	-47.95	-13.00	-48.79	-13.84	Peak
2 pp	2509.56	-50.88	-40.89	-13.00	-37.88	-9.99	Peak

LTE BAND 26

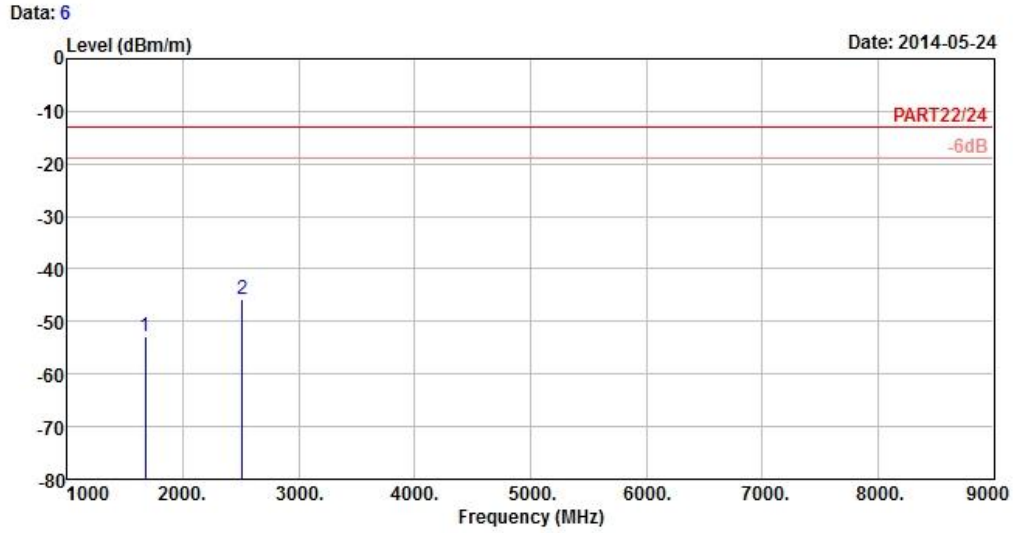
CHANNEL BANDWIDTH: 15MHz / QPSK

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART22/24 3m HORIZONTAL
Remark : LTE Band 26_15M_QPSK(1,37) Link
Tested by: PeterWeng
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-50.82	-36.98	-13.00	-37.82	-13.84	Peak
2 pp	2509.50	-42.54	-32.55	-13.00	-29.54	-9.99	Peak



Site : 966 Chamber 5
Condition: PART22/24 3m VERTICAL
Remark : LTE Band 26_15M_QPSK(1,37) Link
Tested by: PeterWeng
Plane : X

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1673.00	-52.71	-38.87	-13.00	-39.71	-13.84	Peak
2 pp	2509.50	-45.66	-35.67	-13.00	-32.66	-9.99	Peak

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

6 INFORMATION ON THE TESTING LABORATORIES

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

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

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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

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---