FCC TEST REPORT

(PART 90S)

REPORT NO.: RF131023C31-8

MODEL NO.: 0P6B700

FCC ID: NM80P6B700

RECEIVED: Oct. 23, 2013

TESTED: Jan. 02, 2014 ~ Jan. 09, 2014

ISSUED: Jan. 14, 2014

APPLICANT: HTC Corporation

ADDRESS: No. 23,Xinghua Rd.,Taoyuan 330,Taiwan,R.O.C.

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

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

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF131023C31-8	Original release	Jan. 14, 2014

1 CERTIFICATION

PRODUCT:	Smartphone
MODEL:	0P6B700
BRAND:	HTC
APPLICANT:	HTC Corporation
TESTED:	Jan. 02, 2014 ~ Jan. 09, 2014
TEST SAMPLE:	Production Unit
STANDARDS:	**FCC PART 90, Subpart S**

The above equipment (model: 0P6B700) 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 :** Jan. 14, 2014

Ivonne Wu / Supervisor

APPROVED BY : _____ **, DATE :** Jan. 14, 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 90 & Part 2			
STANDARD SECTION	**TEST TYPE**	**RESULT**	**REMARK**
2.1046 90.635 (b)	Effective radiated power	PASS	Meet the requirement of limit.
2.1055 90.213	Frequency Stability	PASS	Meet the requirement of limit.
2.1049 90.209	Occupied Bandwidth (*)	PASS	Meet the requirement of limit.
2.1051 90.210	Emission Masks	PASS	Meet the requirement of limit.
2.1051 90.691	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 90.691	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -25.72dB at 2453.10MHz.

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, 2013	Apr. 14, 2014
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Mar. 25, 2013	Mar. 24, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 07, 2013	Jan. 06, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 18, 2013	Dec. 17, 2014
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
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.	0P6B700	
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)	
MODULATION TYPE	**CDMA BC10**	QPSK, OQPSK, HPSK
	LTE Band 26	QPSK, 16QAM
FREQUENCY RANGE	**CDMA BC10**	817.9MHz ~ 823.1MHz
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	814.7MHz ~ 823.3MHz
	LTE Band 26 (Channel Bandwidth: 3MHz)	815.5MHz ~ 822.5MHz
	LTE Band 26 (Channel Bandwidth: 5MHz)	816.5MHz ~ 821.5MHz
	LTE Band 26 (Channel Bandwidth: 10MHz)	819MHz
MAX. ERP POWER	**CDMA BC10**	83.37mW
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	68.39mW
	LTE Band 26 (Channel Bandwidth: 3MHz)	69.34mW
	LTE Band 26 (Channel Bandwidth: 5MHz)	68.39mW
	LTE Band 26 (Channel Bandwidth: 10MHz)	72.28mW
EMISSION DESIGNATOR	**CDMA BC10**	1M28F9W
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	1M09G7D
	LTE Band 26 (Channel Bandwidth: 3MHz)	2M69G7D
	LTE Band 26 (Channel Bandwidth: 5MHz)	4M50G7D
	LTE Band 26 (Channel Bandwidth: 10MHz)	8M94G7D
ANTENNA TYPE	**CDMA BC10:** Fixed Internal antenna with -2.8dBi gain **LTE Band 26:** Fixed Internal antenna with -2.5dBi gain	
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 EUT photo.
2. There're 2 configurations for the EUT listed as below.

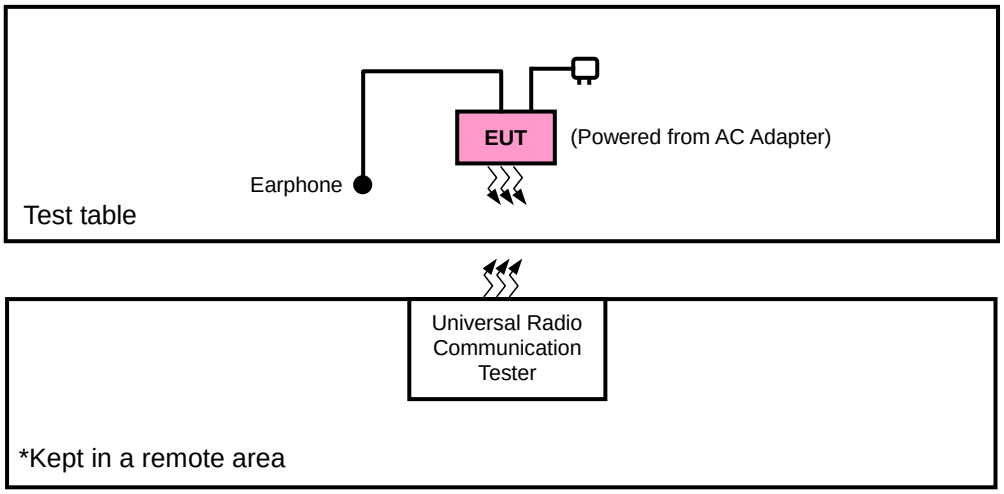
   Main Sample (A): Battery 1 + LCD Panel 1

   2nd Sample (B): Battery 2 + LCD Panel 2

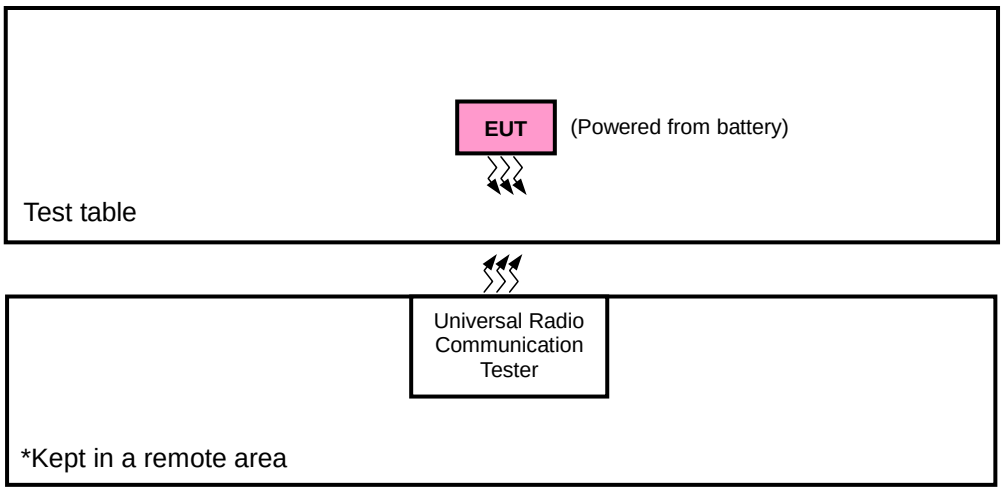
   ✧Only the worst test data was presented in the report.
3. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

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 when positioned on X-plane for CDMA and Y-plane for LTE for ERP, and Y-axis for CDMA and Z-axis for LTE for radiated emission for antenna 0. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	Main sample
B	2nd sample

CDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
A	ERP	476 to 684	476, 580, 684	1xRTT
B	ERP	476 to 684	580	1xRTT
A	FREQUENCY STABILITY	476 to 684	580	1xRTT
A	OCCUPIED BANDWIDTH	476 to 684	476, 580, 684	1xRTT
A	EMISSION MASK	476 to 684	476, 580, 684	1xRTT
A	CONDCUDETED EMISSION	476 to 684	580	1xRTT
A	RADIATED EMISSION	476 to 684	580	1xRTT

LTE BAND 26 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		26740	26740	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
A	FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26740	3MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26740	5MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10MHZ	QPSK	1 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		26740	26740	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset
A	EMISSION MASK	26697 to 26783	26697	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
			26740	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset
			26783	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
		26705 to 26775	26705	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
			26740	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset
			26775	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
		26715 to 26765	26715	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
			26740	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset
			26775	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
		26740	26740	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset
						1 RB / 49 RB Offset
						50 RB / 0 RB Offset
A	CONDCUDETED EMISSION	26697 to 26783	26740	1.4MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26740	3MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26740	5MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10MHZ	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	26697 to 26783	26740	1.4MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26740	3MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26740	5MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10MHZ	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
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
EMISSION MASK	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	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 90

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 100 watts e.r.p.

4.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5MHz for CDMA mode, 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

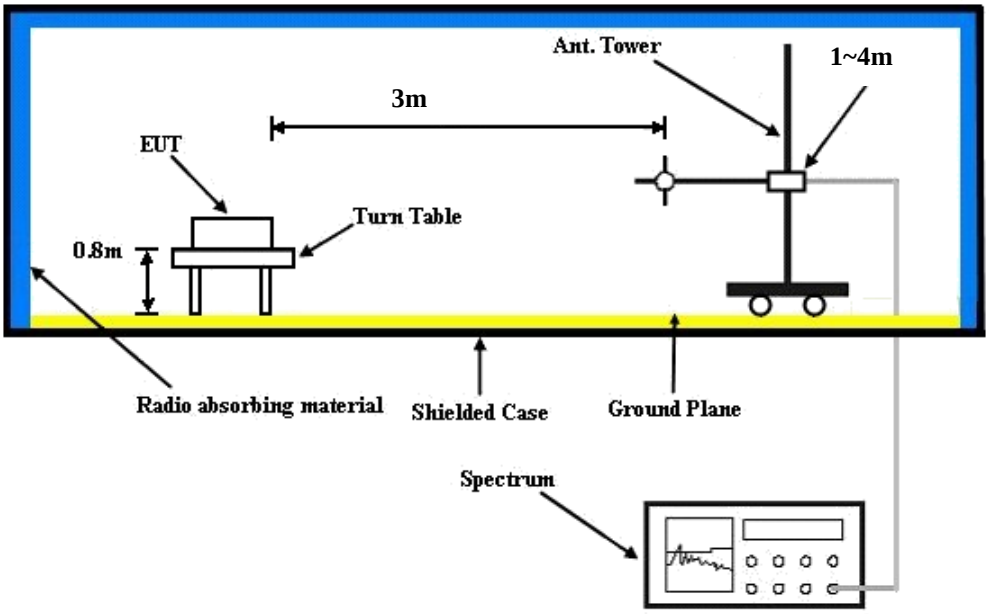
d. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.

CONDUCTED POWER MEASUREMENT:

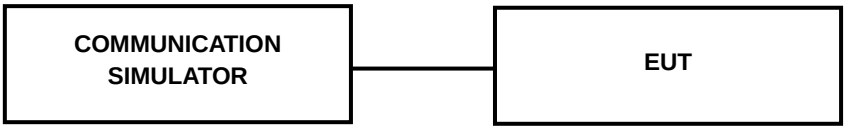
The EUT was set up for the maximum power with CDMA & LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:



4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band	CDMA		
Channel	476	580	684
Frequency (MHz)	817.9	820.5	823.1
RC1+SO55	24.37	24.30	24.41
RC3+SO55	24.41	24.34	24.45
RC3+SO32(+ F-SCH)	24.40	24.33	24.44
RC3+SO32(+SCH)	24.38	24.31	24.42
RTAP 153.6	24.44	24.37	**24.48**
RETAP 4096	24.36	24.29	24.40

Band / BW	Modulation	RB Size	RB Offset	Low CH 26697 Frequency 814.7 MHz	Mid CH 26740 Frequency 819.0 MHz	High CH 26783 Frequency 823.3 MHz	3PGG MPR (dB)
26 / 1.4M	QPSK	1	0	23.06	23.11	23.14	0
		1	2	22.99	23.04	23.07	0
		1	5	23.00	23.05	23.08	0
		3	0	23.03	23.08	23.11	0
		3	1	23.04	23.09	23.12	0
		3	3	22.99	23.04	23.07	0
		6	0	22.07	22.12	22.15	1
	16QAM	1	0	22.02	22.07	22.10	1
		1	2	21.95	22.00	22.03	1
		1	5	21.96	22.01	22.04	1
		3	0	21.99	22.04	22.07	1
		3	1	22.00	22.05	22.08	1
		3	3	21.95	22.00	22.03	1
		6	0	21.03	21.08	21.11	2

Band / BW	Modulation	RB Size	RB Offset	Low CH 26705 Frequency 815.5 MHz	Mid CH 26740 Frequency 819.0 MHz	High CH 26775 Frequency 822.5 MHz	3PGG MPR (dB)
26 / 3M	QPSK	1	0	23.19	23.24	23.27	0
		1	7	23.12	23.17	23.20	0
		1	14	23.13	23.18	23.21	0
		8	0	22.16	22.21	22.24	1
		8	3	22.17	22.22	22.25	1
		8	7	22.12	22.17	22.20	1
		15	0	22.20	22.25	22.28	1
	16QAM	1	0	22.15	22.20	22.23	1
		1	7	22.08	22.13	22.16	1
		1	14	22.09	22.14	22.17	1
		8	0	21.12	21.17	21.20	2
		8	3	21.13	21.18	21.21	2
		8	7	21.08	21.13	21.16	2
		15	0	21.16	21.21	21.24	2

Band / BW	Modulation	RB Size	RB Offset	Low CHG 26715 Frequency 816.5 MHz	Mid CH 26740 Frequency 819.0 MHz	High CH 26765 Frequency 821.5 MHz	3PGG MPR (dB)
26 / 5M	QPSK	1	0	23.30	23.35	23.38	0
		1	12	23.23	23.28	23.31	0
		1	24	23.24	23.29	23.32	0
		12	0	22.27	22.32	22.35	1
		12	6	22.28	22.33	22.36	1
		12	13	22.23	22.28	22.31	1
		25	0	22.31	22.36	22.39	1
	16QAM	1	0	22.26	22.31	22.34	1
		1	12	22.19	22.24	22.27	1
		1	24	22.20	22.25	22.28	1
		12	0	21.23	21.28	21.31	2
		12	6	21.24	21.29	21.32	2
		12	13	21.19	21.24	21.27	2
		25	0	21.27	21.32	21.35	2

Band / BW	Modulation	RB Size	RB Offset	Mid CH 26740 Frequency 819.0 MHz	3PGG MPR (dB)
26 / 10M	QPSK	1	0	23.39	0
		1	24	23.32	0
		1	49	23.33	0
		25	0	22.36	1
		25	12	22.37	1
		25	25	22.32	1
		50	0	22.40	1
	16QAM	1	0	22.35	1
		1	24	22.28	1
		1	49	22.29	1
		25	0	21.32	2
		25	12	21.33	2
		25	25	21.28	2
		50	0	21.36	2

ERP POWER (dBm)

TEST MODE A

CDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	476	817.9	-11.42	32.62	19.05	80.35	H
	580	820.5	-11.16	32.52	19.21	83.37	H
	684	823.1	-11.45	32.65	19.05	80.35	H
	476	817.9	-18.82	32.76	11.79	15.10	V
	580	820.5	-18.94	32.39	11.30	13.49	V
	684	823.1	-18.75	32.54	11.64	14.59	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	26697	814.7	-11.52	32.02	18.35	68.39	H
	26740	819	-11.75	32.11	18.21	66.22	H
	26783	823.3	-11.73	32.18	18.30	67.61	H
	26697	814.7	-17.21	32.5	13.14	20.61	V
	26740	819	-17.19	32.51	13.17	20.75	V
	26783	823.3	-17.38	32.47	12.94	19.68	V

CHANNEL BANDWIDTH: 1.4MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26697	814.7	-12.68	32.02	17.19	52.36	H
	26740	819	-12.75	32.11	17.21	52.60	H
	26783	823.3	-12.77	32.18	17.26	53.21	H
	26697	814.7	-18.02	32.5	12.33	17.10	V
	26740	819	-17.98	32.51	12.38	17.30	V
	26783	823.3	-18.04	32.47	12.28	16.90	V

CHANNEL BANDWIDTH: 3MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26705	815.5	-11.49	32.02	18.38	68.87	H
	26740	819	-11.60	32.11	18.36	68.55	H
	26775	822.5	-11.62	32.18	18.41	69.34	H
	26705	815.5	-17.31	32.5	13.04	20.14	V
	26740	819	-17.41	32.51	12.95	19.72	V
	26775	822.5	-17.40	32.47	12.92	19.59	V

CHANNEL BANDWIDTH: 3MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26705	815.5	-12.42	32.02	17.45	55.59	H
	26740	819	-12.63	32.11	17.33	54.08	H
	26775	822.5	-12.74	32.18	17.29	53.58	H
	26705	815.5	-17.87	32.5	12.48	17.70	V
	26740	819	-18.02	32.51	12.34	17.14	V
	26775	822.5	-17.84	32.47	12.48	17.70	V

CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26715	816.5	-11.54	32.04	18.35	68.39	H
	26740	819	-11.80	32.11	18.16	65.46	H
	26765	821.5	-11.31	31.79	18.33	68.08	H
	26715	816.5	-17.10	32.52	13.27	21.23	V
	26740	819	-17.25	32.51	13.11	20.46	V
	26765	821.5	-17.07	32.17	12.95	19.72	V

CHANNEL BANDWIDTH: 5MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26715	816.5	-12.47	32.04	17.42	55.21	H
	26740	819	-12.72	32.11	17.24	52.97	H
	26765	821.5	-12.49	31.79	17.15	51.88	H
	26715	816.5	-18.17	32.52	12.20	16.60	V
	26740	819	-18.08	32.51	12.28	16.90	V
	26765	821.5	-17.86	32.17	12.16	16.44	V

CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26740	819	-11.37	32.11	18.59	72.28	H
	26740	819	-17.41	32.51	12.95	19.72	V

CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26740	819	-12.50	32.11	17.46	55.72	H
	26740	819	-17.84	32.51	12.52	17.86	V

TEST MODE B

CDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
X	580	820.5	-11.49	32.52	18.88	77.27	H
	580	820.5	-18.70	32.39	11.54	14.26	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

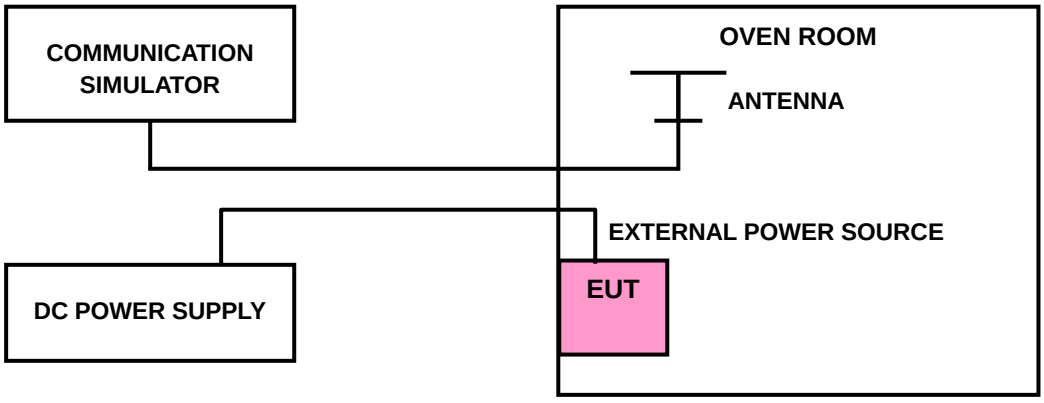
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

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	
3.8	-0.0017	0.0050	0.0035	0.0034	-0.0061	2.5
3.6	-0.0013	0.0054	0.0006	0.0017	0.0039	2.5
4.35	-0.0021	-0.0037	-0.0029	-0.0044	-0.0021	2.5

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

FREQUENCY ERROR vs. TEMPERATURE

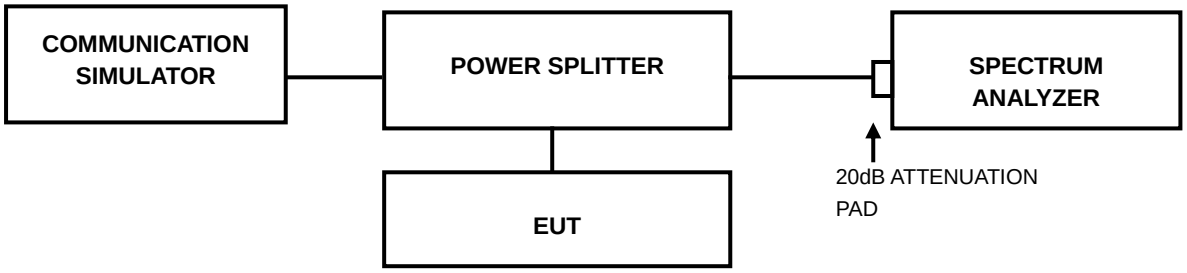
TEMP. (℃)	FREQUENCY ERROR (ppm)					LIMIT (ppm)
	CDMA	LTE Band 26				
		1.4MHz	3MHz	5MHz	10MHz	
-30	0.0023	0.0016	-0.0017	-0.0009	-0.0015	2.5
-20	0.0023	0.0011	0.0072	0.0001	-0.0024	2.5
-10	0.0014	-0.0012	0.0062	-0.0060	-0.0118	2.5
0	0.0018	0.0057	-0.0088	0.0021	-0.0022	2.5
10	0.0022	0.0045	0.0023	-0.0042	-0.0021	2.5
20	0.0008	-0.0074	-0.0017	-0.0018	-0.0054	2.5
30	-0.0011	-0.0012	-0.0021	-0.0002	-0.0055	2.5
40	-0.0016	-0.0018	-0.0011	-0.0055	-0.0081	2.5
50	-0.0017	-0.0006	-0.0066	-0.0001	-0.0038	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.

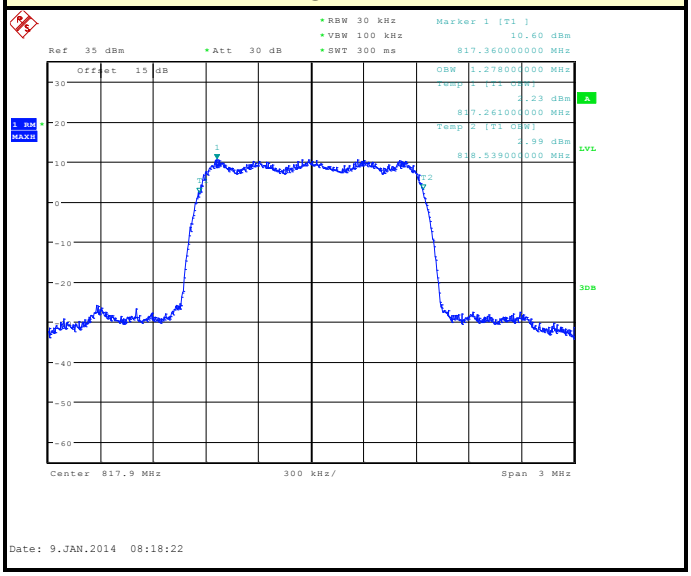
4.3.2 TEST SETUP



4.3.3 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
		CDMA
476	817.9	1.278
580	820.5	1.278
684	823.1	1.275

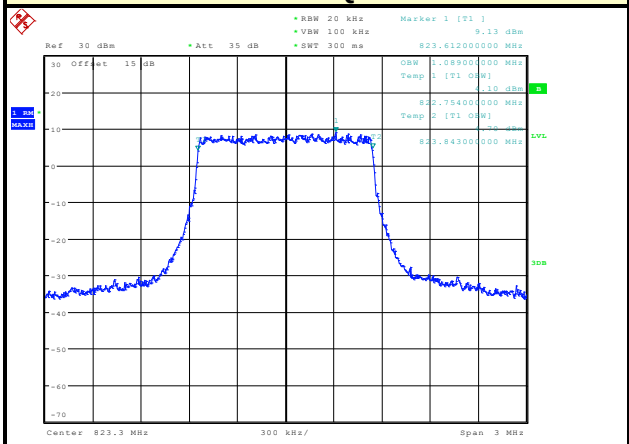
SPECTRUM PLOT OF WORST VALUE
CDMA



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
26697	814.7	1.086	1.083	26705	815.5	2.682	2.682
26740	819	1.086	1.083	26740	819	2.688	2.682
26783	823.3	1.089	1.083	26775	822.5	2.688	2.682

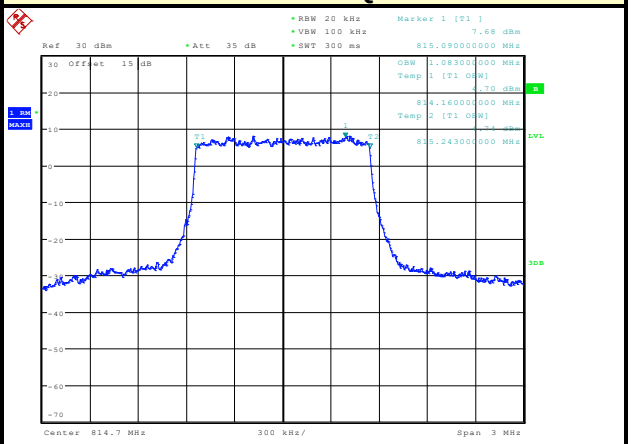
SPECTRUM PLOT OF WORST VALUE

1.4MHz / QPSK



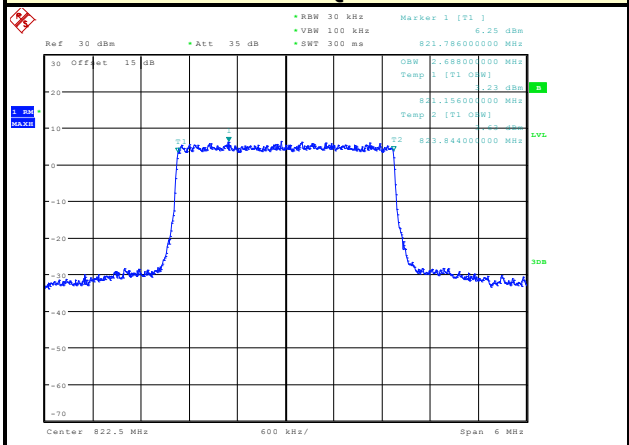
Date: 8.JAN.2014 07:43:16

1.4MHz / 16QAM



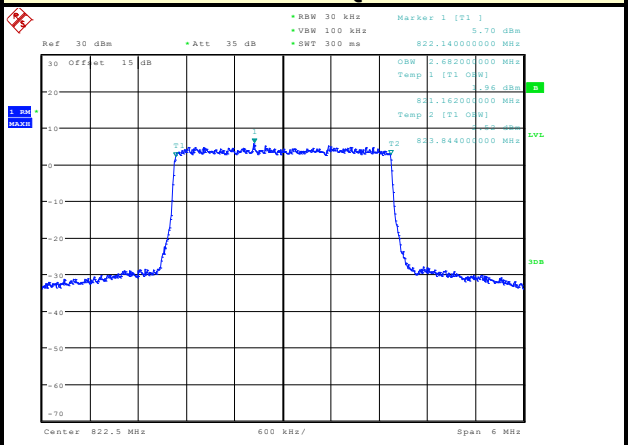
Date: 8.JAN.2014 07:39:28

3MHz / QPSK



Date: 8.JAN.2014 07:58:35

3MHz / 16QAM

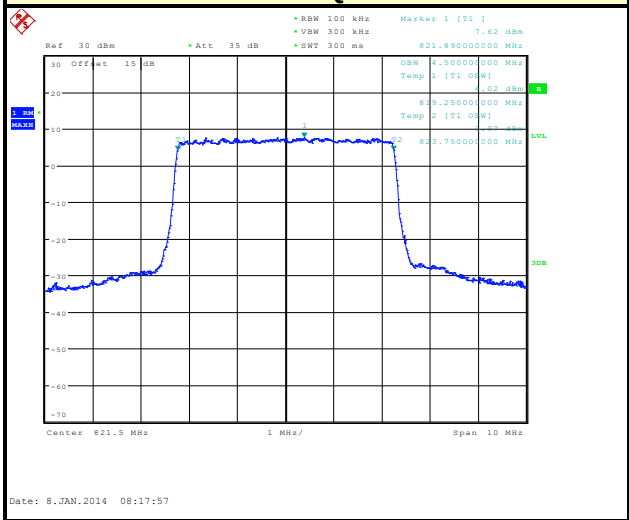


Date: 8.JAN.2014 07:58:55

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
26715	816.5	4.49	4.49	26740	819	8.94	8.94
26740	819	4.5	4.49				
26765	821.5	4.5	4.49				

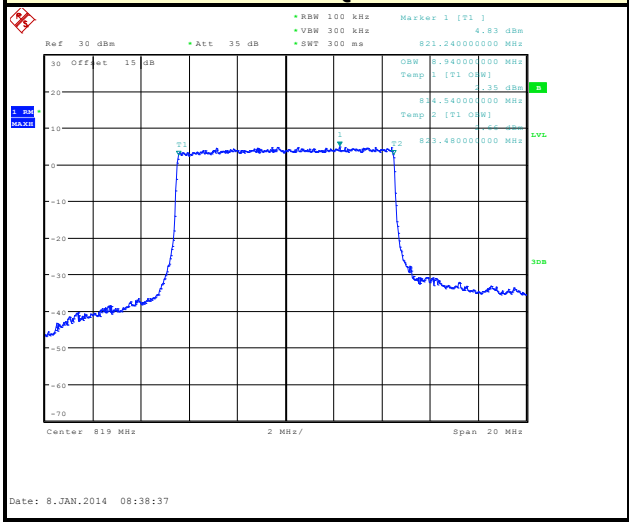
SPECTRUM PLOT OF WORST VALUE

5MHz / QPSK

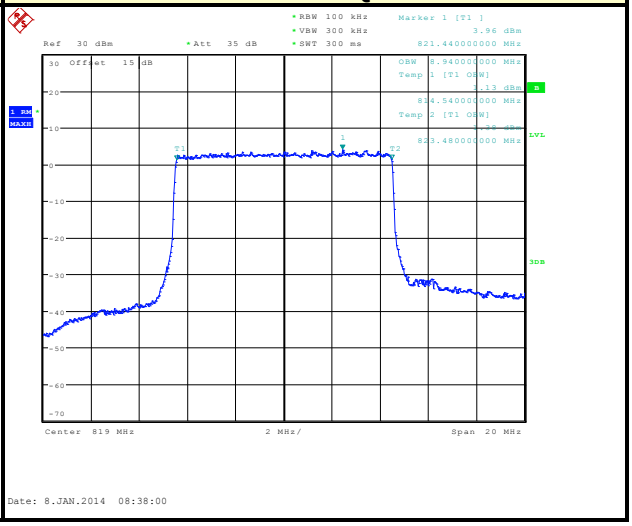


5MHz / 16QAM

10MHz / QPSK



10MHz / 16QAM

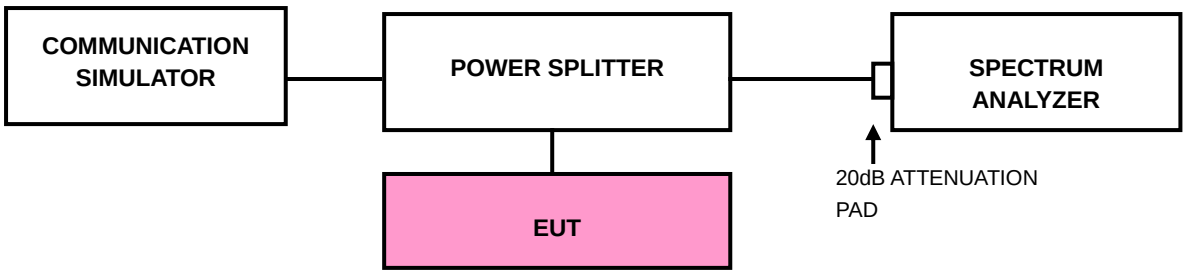


4.4 EMISSION MASK MEASUREMENT

4.4.1 LIMITS OF BAND EDGE MEASUREMENT

According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

4.4.2 TEST SETUP



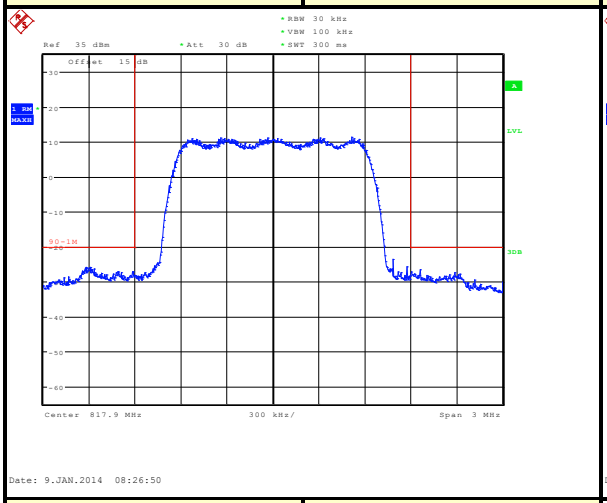
4.4.3 TEST PROCEDURES

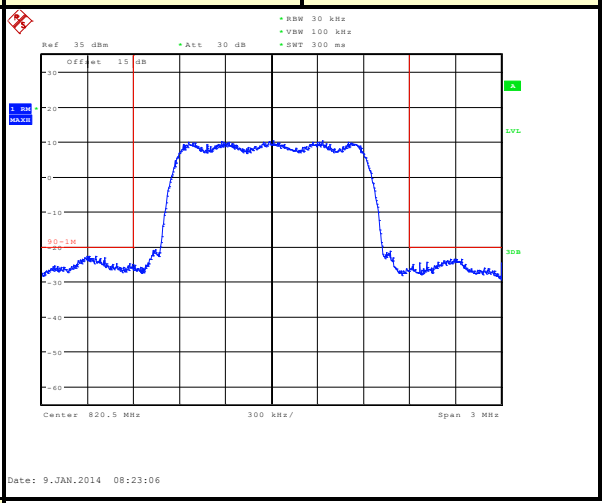
a. The measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

b. Record the test plot.

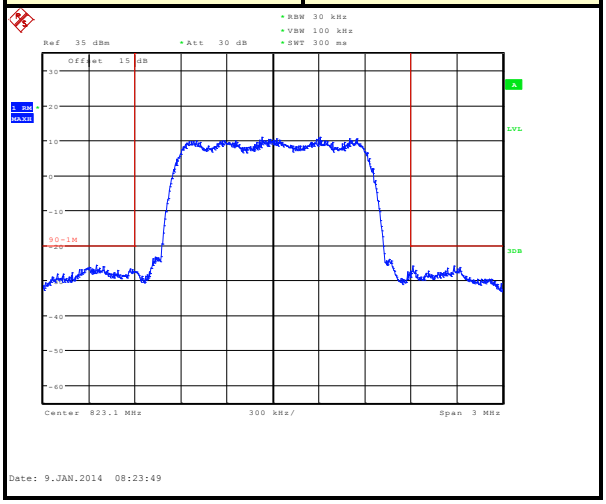
4.4.4 TEST RESULTS

CDMA			
CHANNEL	476	CHANNEL	580





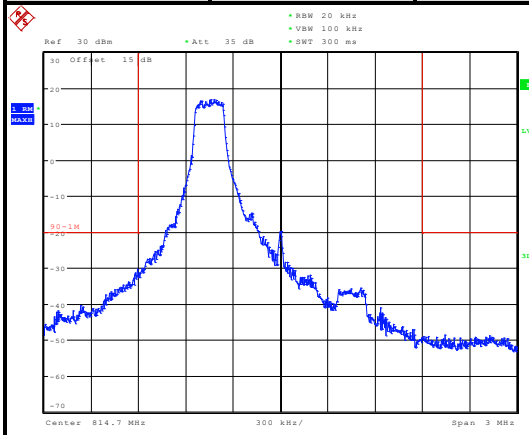
CHANNEL	684



LTE Band 26

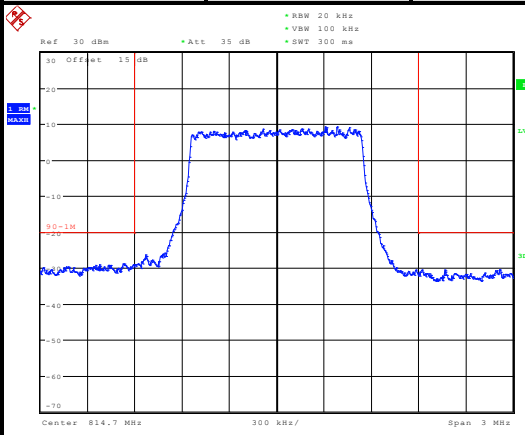
Channel Bandwidth: 1.4MHz / QPSK

CHANNEL	26697	1 RB



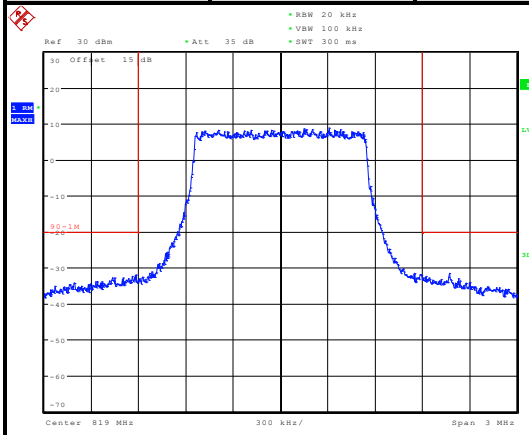
Date: 8.JAN.2014 07:44:34

CHANNEL	26697	6 RB



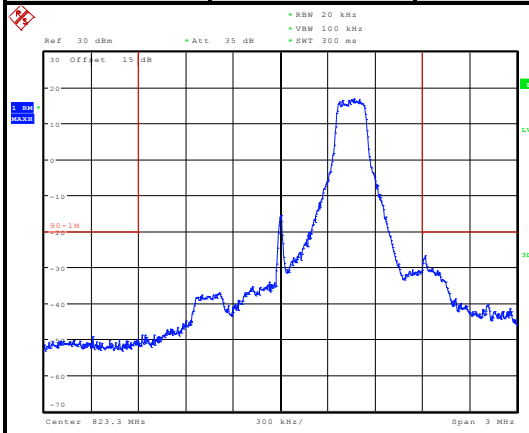
Date: 8.JAN.2014 07:44:20

CHANNEL	26797	6 RB



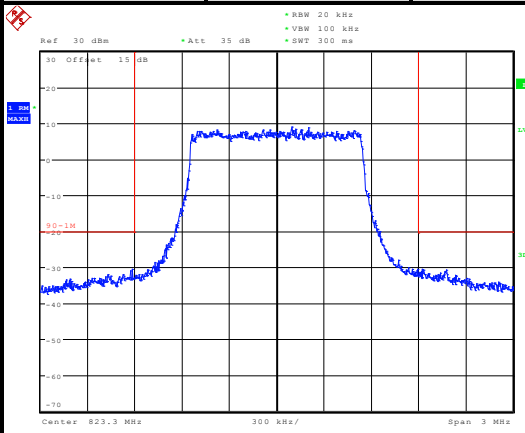
Date: 8.JAN.2014 07:45:56

CHANNEL	26783	1 RB



Date: 8.JAN.2014 07:47:28

CHANNEL	26783	6 RB

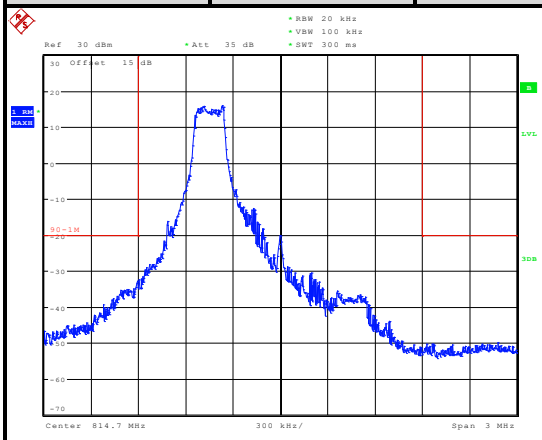


Date: 8.JAN.2014 07:46:25

LTE Band 26

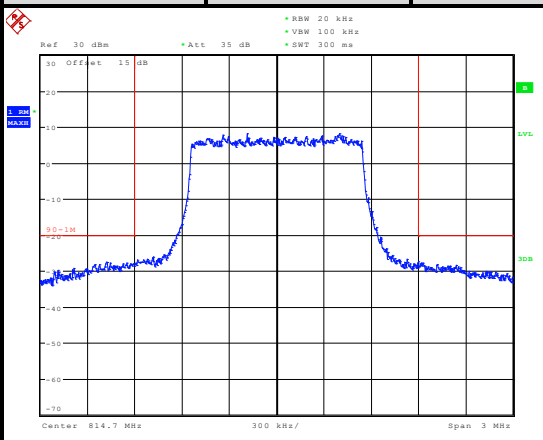
Channel Bandwidth: 1.4MHz / 16QAM

CHANNEL	26697	1 RB



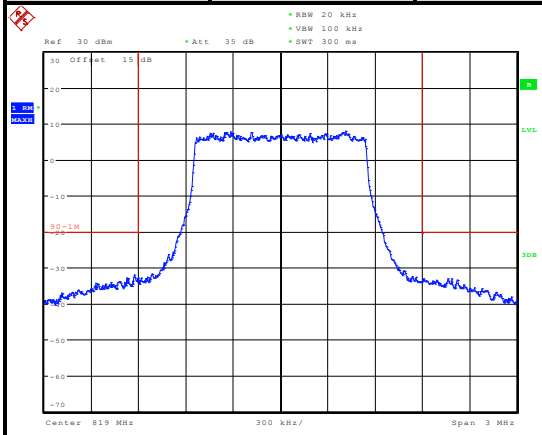
Date: 8.JAN.2014 07:44:54

CHANNEL	26697	6 RB



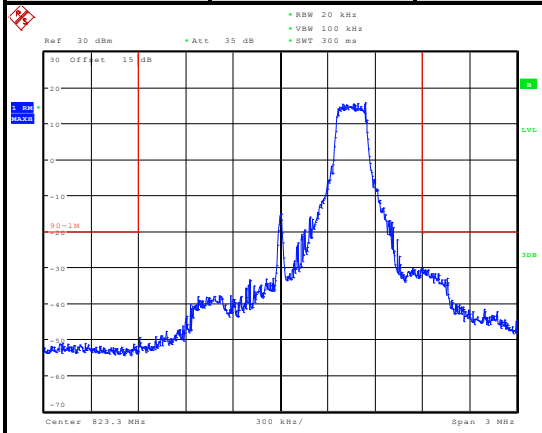
Date: 8.JAN.2014 07:45:11

CHANNEL	26797	6 RB



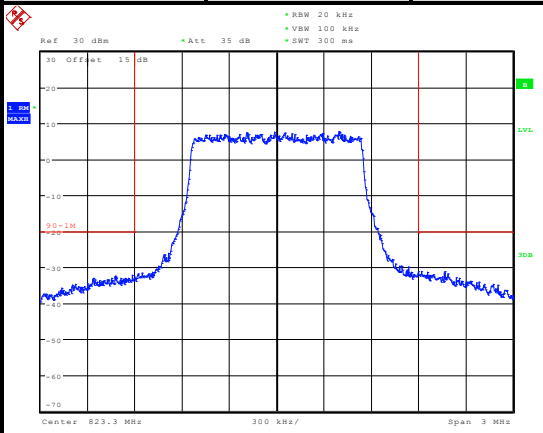
Date: 8.JAN.2014 07:45:43

CHANNEL	26783	1 RB



Date: 8.JAN.2014 07:46:53

CHANNEL	26783	6 RB

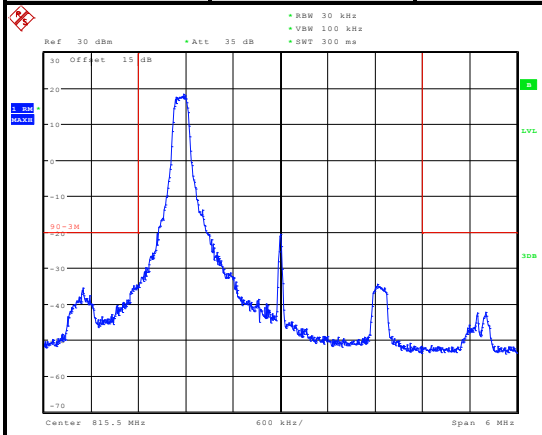


Date: 8.JAN.2014 07:46:39

LTE Band 26

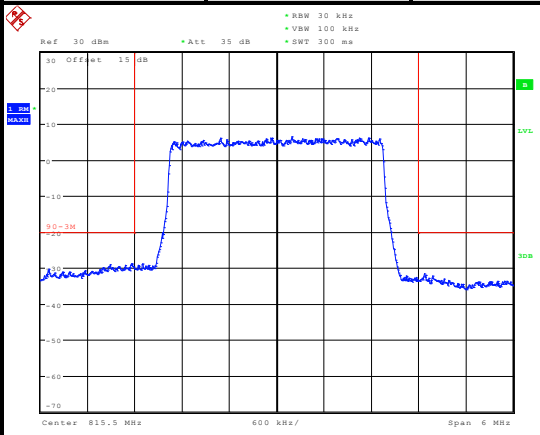
Channel Bandwidth: 3MHz / QPSK

CHANNEL	26705	1 RB



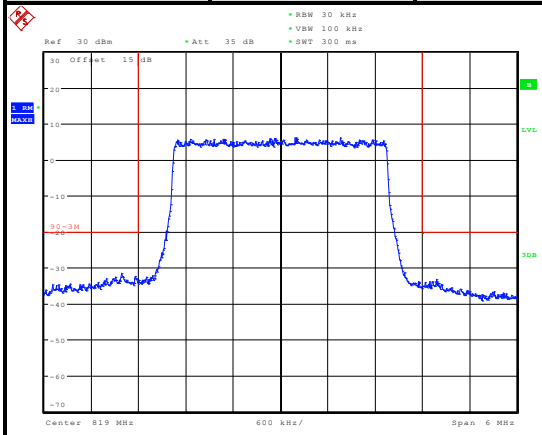
Date: 8.JAN.2014 07:54:06

CHANNEL	26705	15 RB



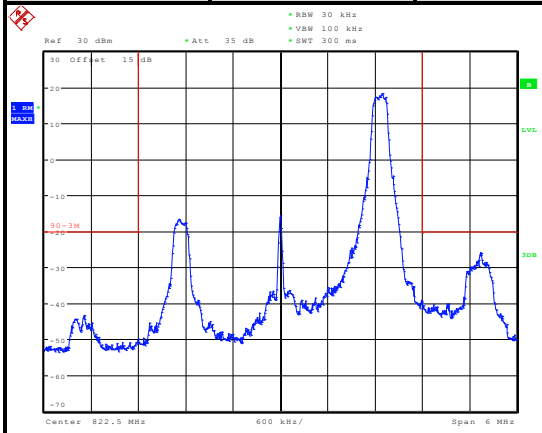
Date: 8.JAN.2014 07:53:14

CHANNEL	26740	15 RB



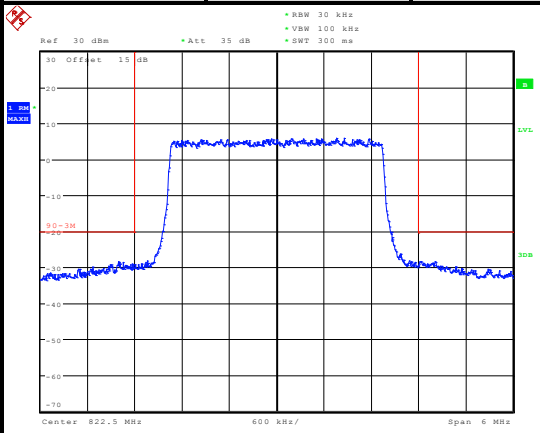
Date: 8.JAN.2014 07:54:40

CHANNEL	26775	1 RB



Date: 8.JAN.2014 07:55:56

CHANNEL	26775	15 RB

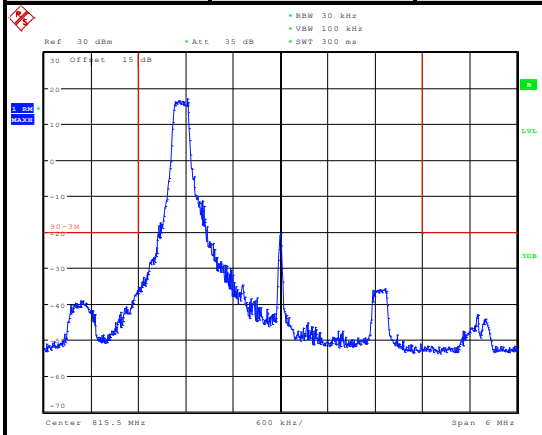


Date: 8.JAN.2014 07:55:38

LTE Band 26

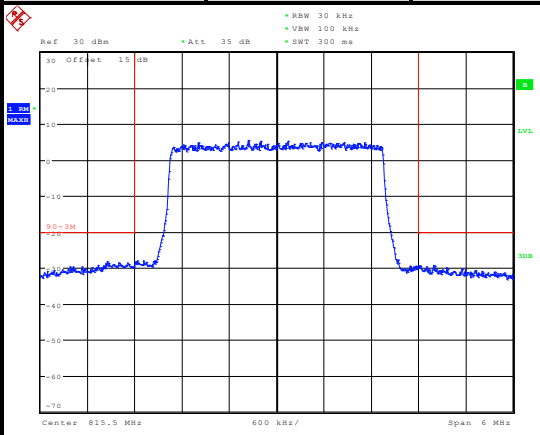
Channel Bandwidth: 3MHz / 16QAM

CHANNEL	26705	1 RB



Date: 8.JAN.2014 07:53:50

CHANNEL	26705	15 RB



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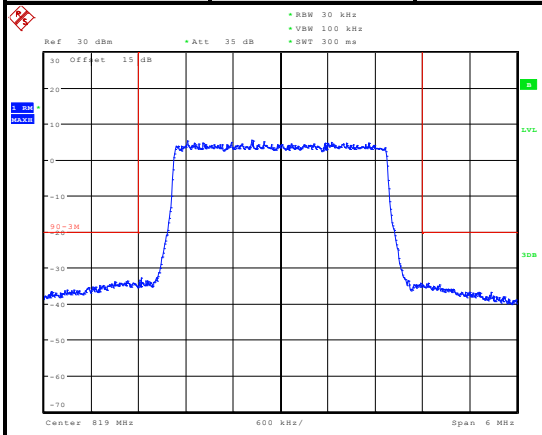
CHANNEL	26740	15 RB



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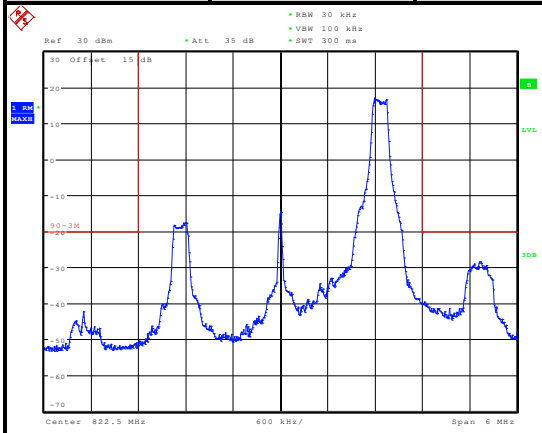
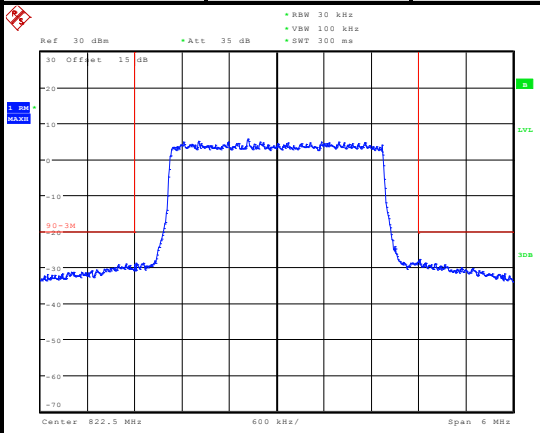
CHANNEL	26775	1 RB



Date: 8.JAN.2014 07:56:22

CHANNEL	26775	15 RB

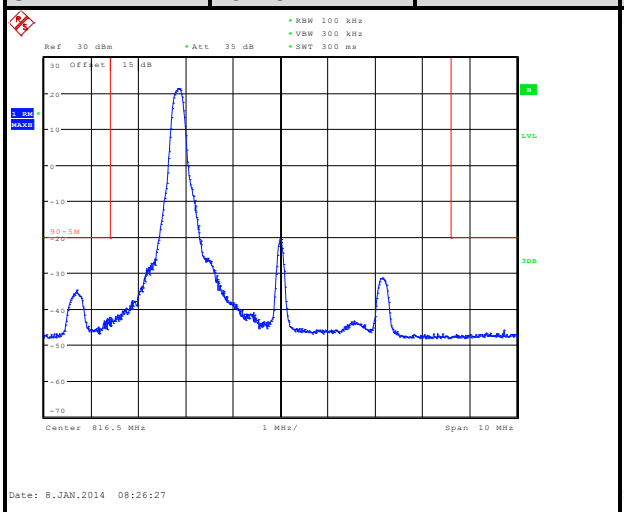


Date: 8.JAN.2014 07:55:26

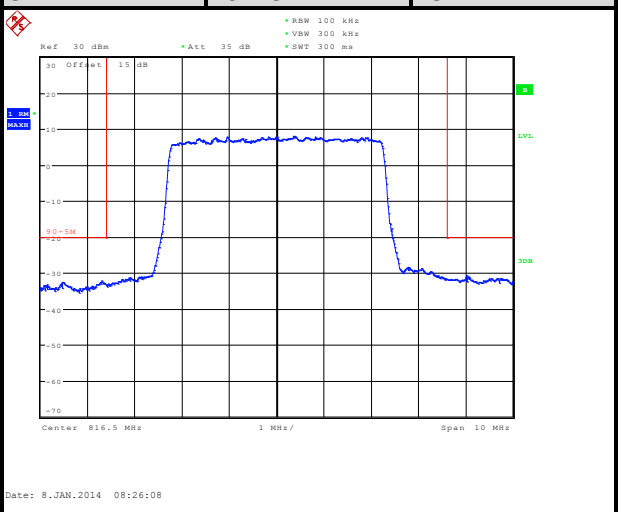
LTE Band 26

Channel Bandwidth: 5MHz / QPSK

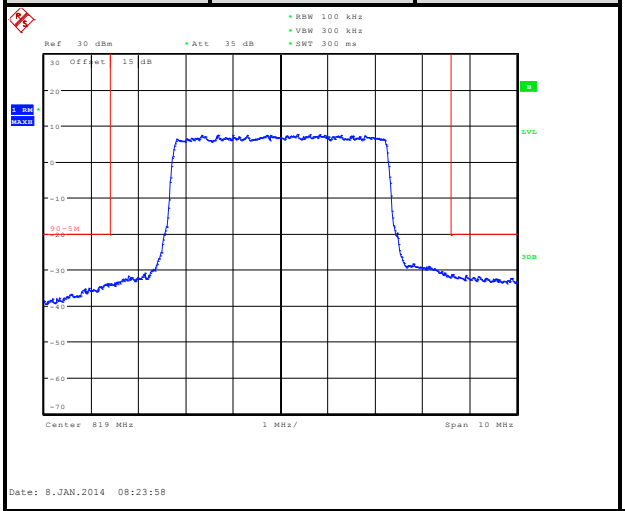
CHANNEL	26715	1 RB



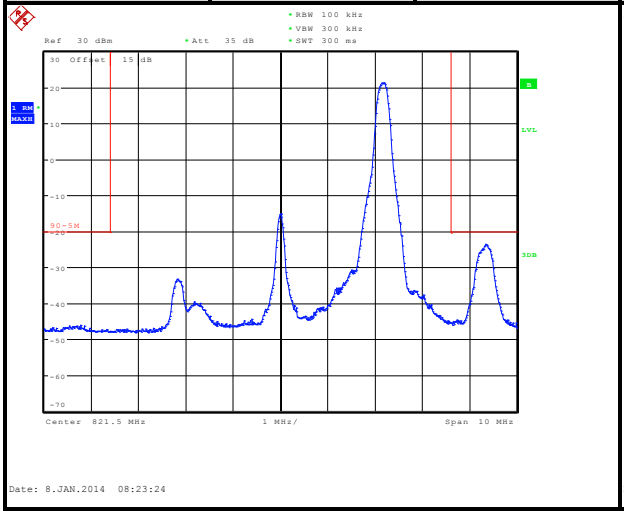
CHANNEL	26715	25 RB



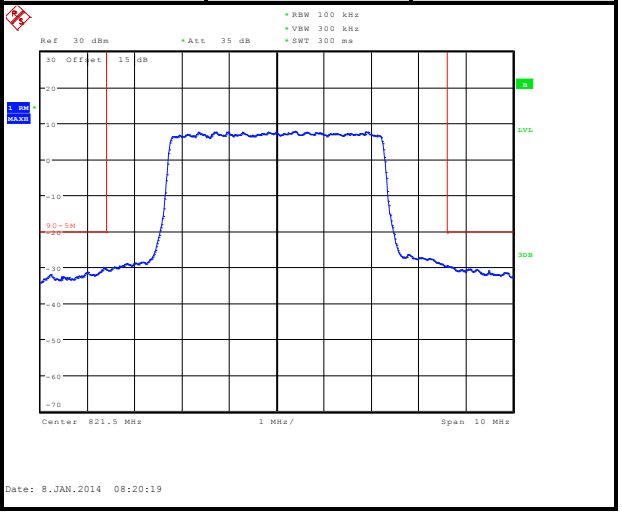
CHANNEL	26740	25 RB



CHANNEL	26765	1 RB



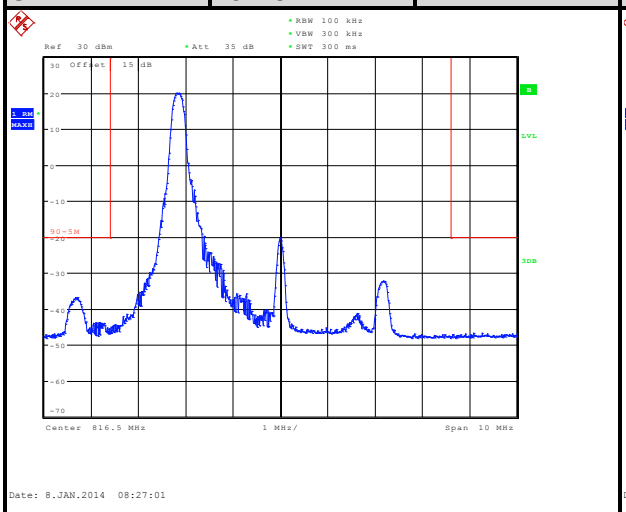
CHANNEL	26765	25 RB



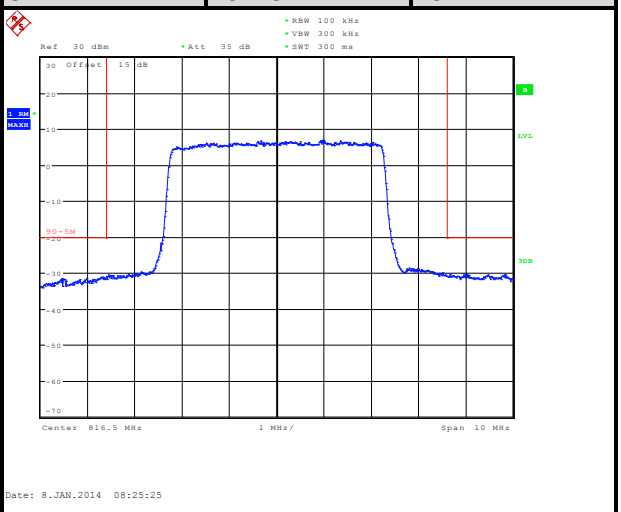
LTE Band 26

Channel Bandwidth: 5MHz / 16QAM

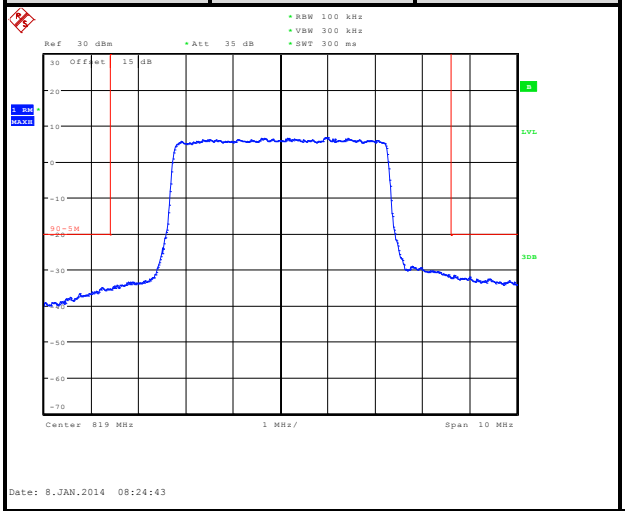
CHANNEL	26715	1 RB



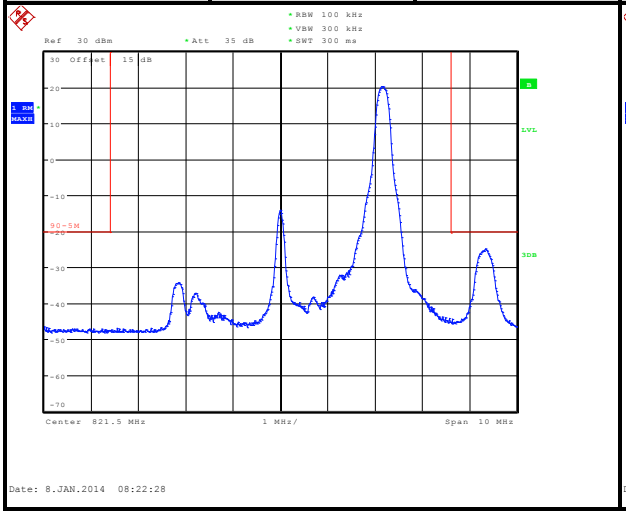
CHANNEL	26715	25 RB



CHANNEL	26740	25 RB



CHANNEL	26765	1 RB

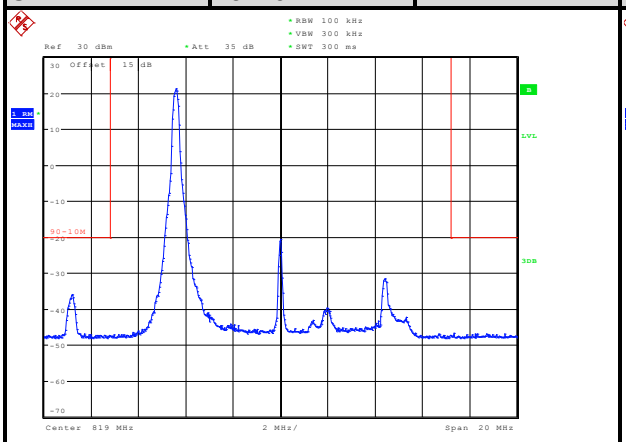


CHANNEL	26765	25 RB

LTE Band 26

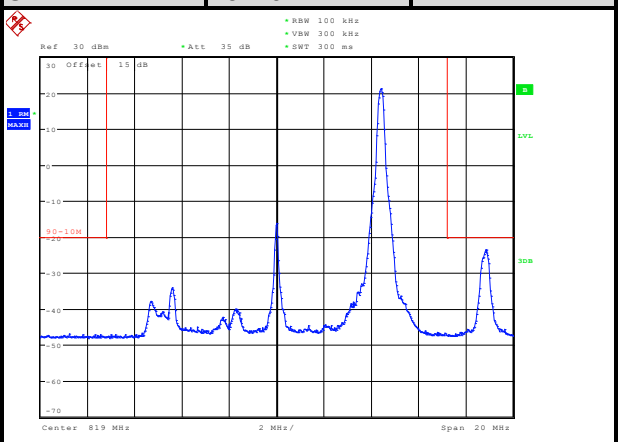
Channel Bandwidth: 10MHz / QPSK

CHANNEL	26740	1 RB



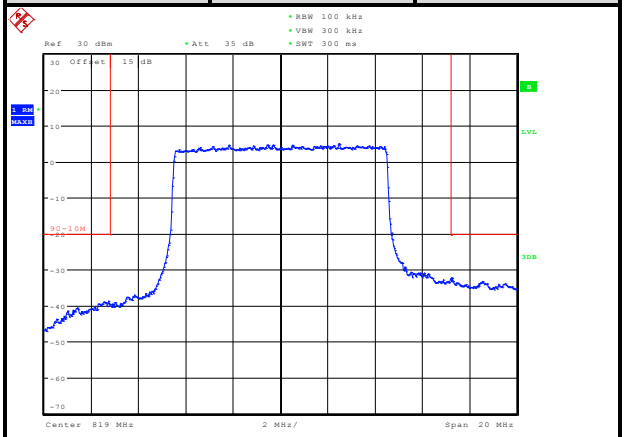
Date: 8.JAN.2014 08:34:01

CHANNEL	26740	1 RB



Date: 8.JAN.2014 08:36:06

CHANNEL	26740	50 RB

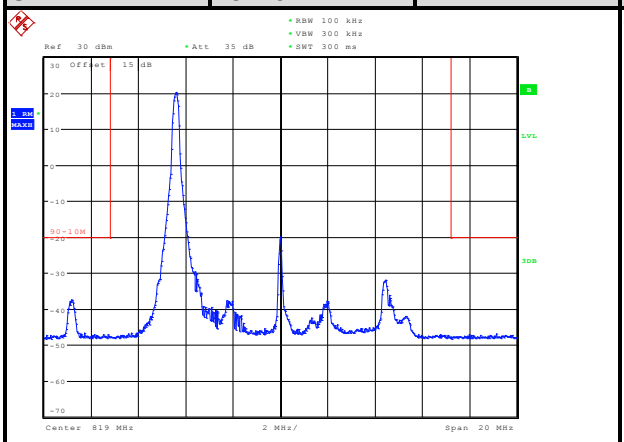


Date: 8.JAN.2014 08:33:05

LTE Band 26

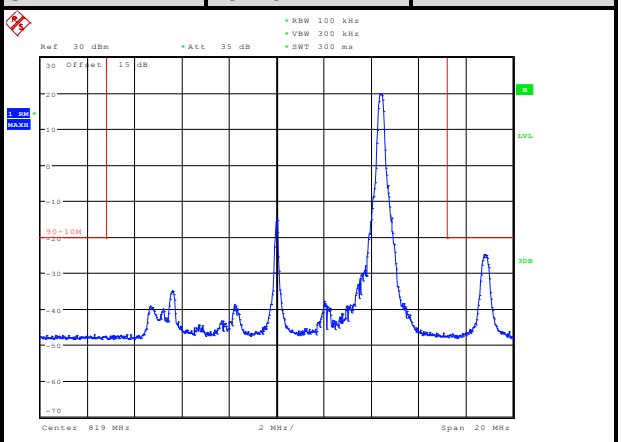
Channel Bandwidth: 10MHz / 16QAM

CHANNEL	26740	1 RB



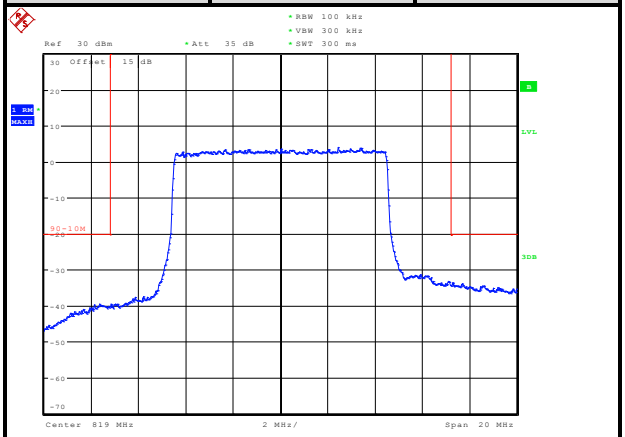
Date: 8.JAN.2014 08:34:28

CHANNEL	26740	1 RB



Date: 8.JAN.2014 08:34:54

CHANNEL	26740	50 RB



Date: 8.JAN.2014 08:32:40

4.5 CONDUCTED SPURIOUS EMISSIONS

4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

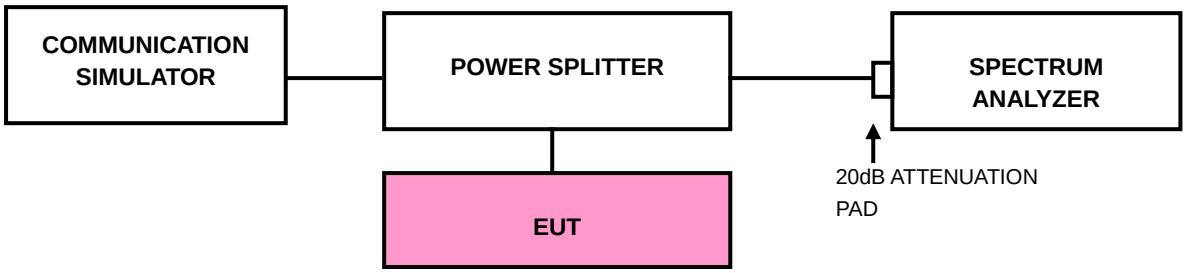
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm.

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.

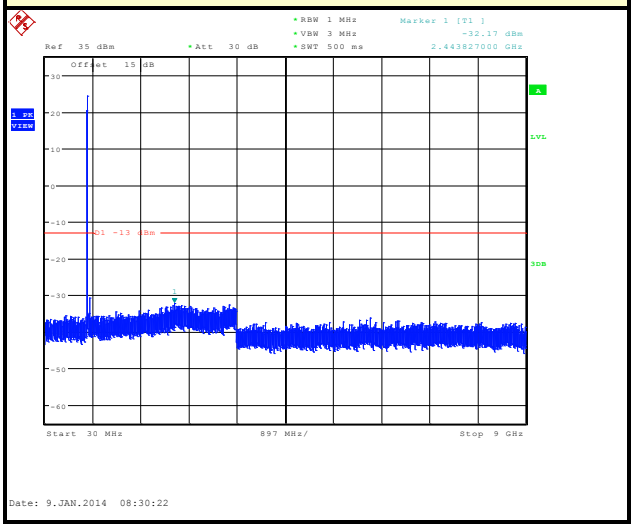
b. Measuring frequency range is from 30 MHz to 9GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

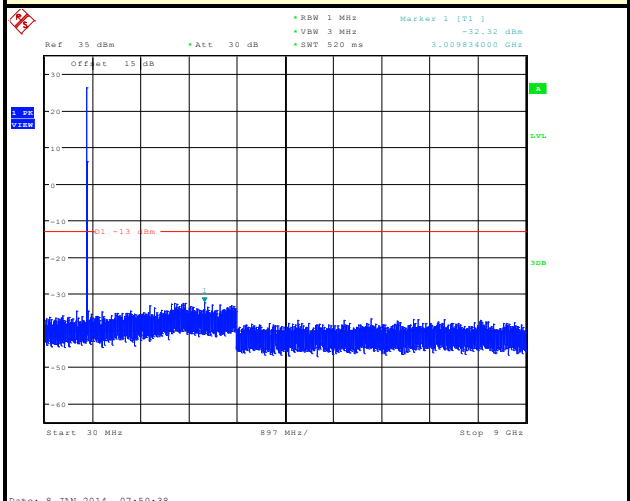
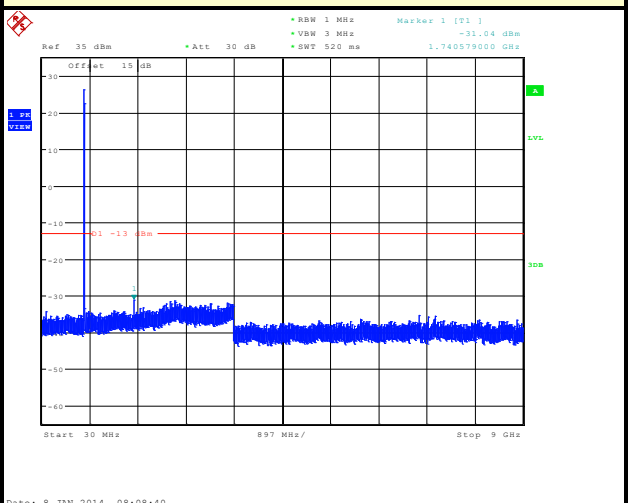
4.5.3 TEST SETUP

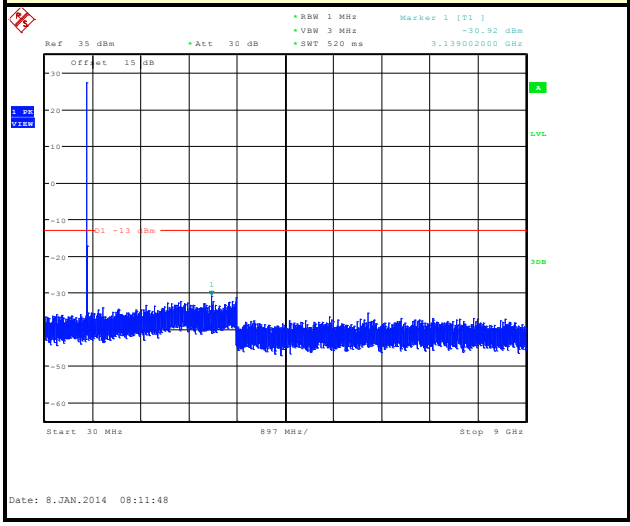
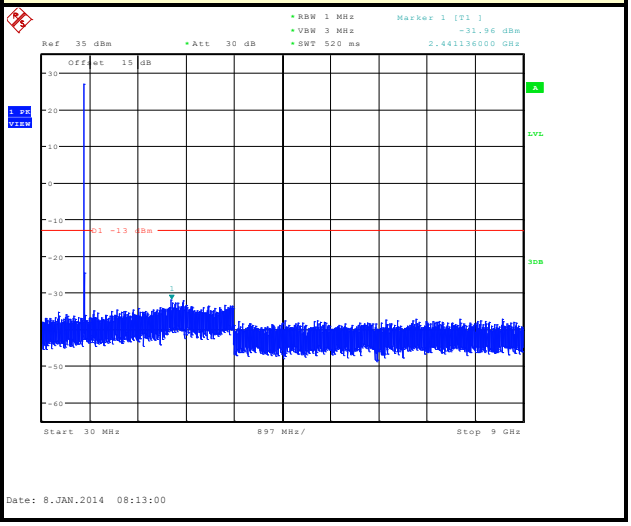


4.5.4 TEST RESULTS

FREQUENCY RANGE : 30MHz~9GHz
CDMA
CHANNEL 580



FREQUENCY RANGE : 30MHz~9GHz	
LTE Band 26 (Channel Bandwidth: 1.4MHz)	LTE Band 26 (Channel Bandwidth: 3MHz)
CHANNEL 26740	CHANNEL 26740
	

FREQUENCY RANGE : 30MHz~9GHz	
LTE Band 26 (Channel Bandwidth: 5MHz)	LTE Band 26 (Channel Bandwidth: 10MHz)
CHANNEL 26740	CHANNEL 26740
	

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 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.

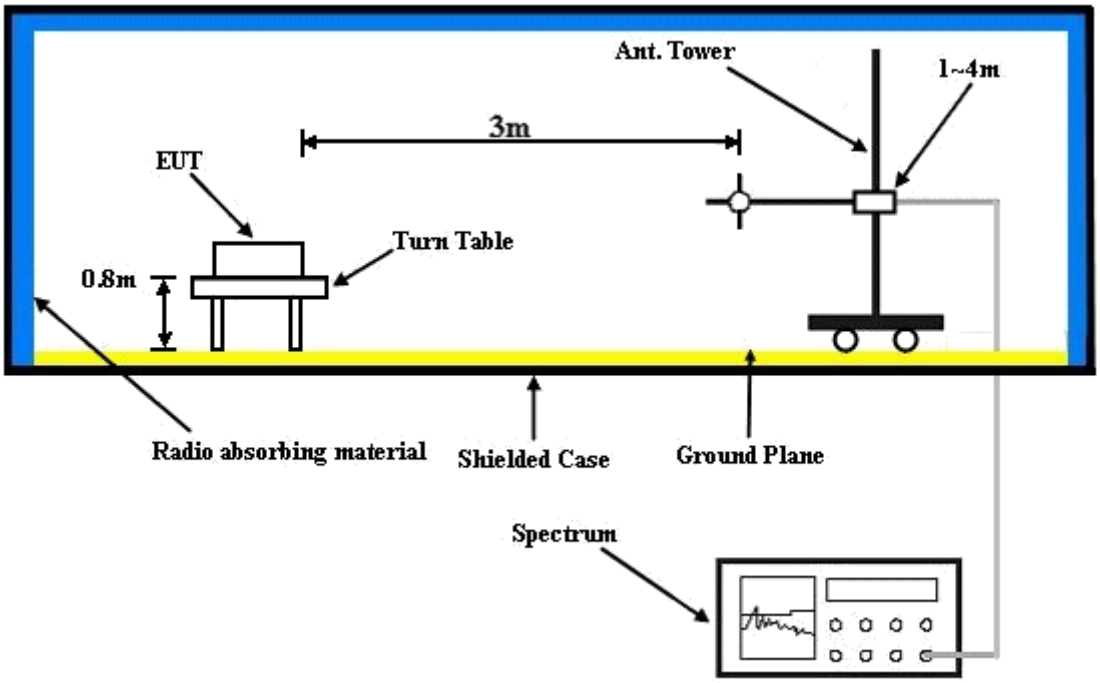
d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15dBi.

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

CDMA:

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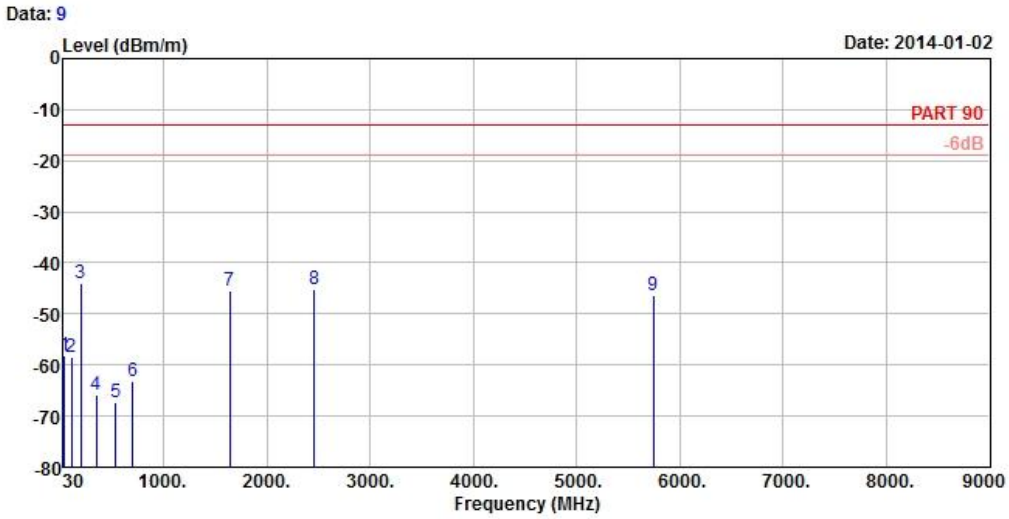
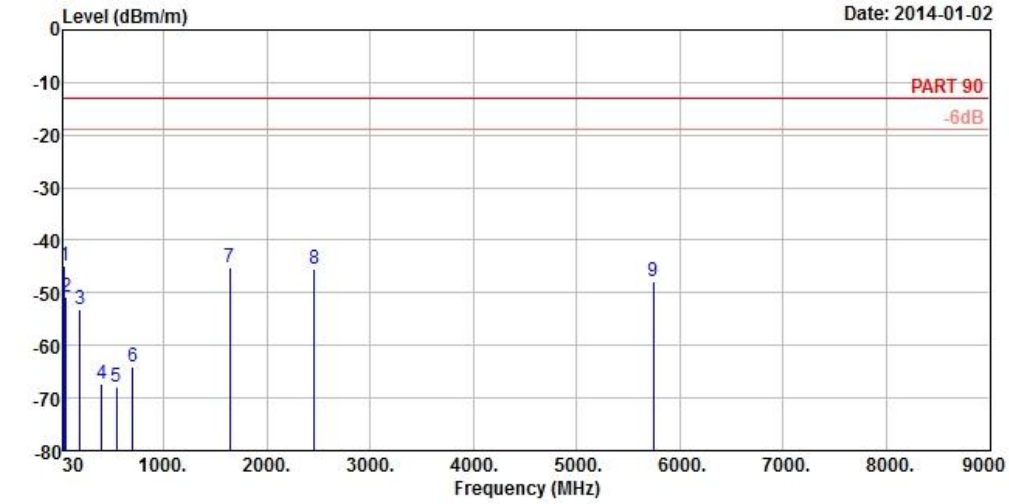


Site : 966 Chamber 5
Condition : PART 90 3m HORIZONTAL
Brand/Model: 0P6B700
Remark : 1xRTT800 Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	39.72	-58.20	-56.67	-13.00	-45.20	-1.53	Peak
2	109.38	-58.36	-47.75	-13.00	-45.36	-10.61	Peak
3 pp	194.70	-43.85	-36.47	-13.00	-30.85	-7.38	Peak
4	345.50	-65.78	-59.74	-13.00	-52.78	-6.04	Peak
5	538.00	-67.16	-65.11	-13.00	-54.16	-2.05	Peak
6	701.80	-63.27	-64.73	-13.00	-50.27	1.46	Peak
7	1641.00	-45.53	-31.68	-13.00	-32.53	-13.85	Peak
8	2461.50	-45.26	-35.20	-13.00	-32.26	-10.06	Peak
9	5743.50	-46.43	-44.56	-13.00	-33.43	-1.87	Peak

Data: 10



Site : 966 Chamber 5
Condition : PART 90 3m VERTICAL
Brand/Model: 0P6B700
Remark : 1xRTT800 Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Y

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	39.72	-44.88	-43.35	-13.00	-31.88	-1.53	Peak
2	57.27	-50.90	-45.25	-13.00	-37.90	-5.65	Peak
3	188.22	-53.02	-46.44	-13.00	-40.02	-6.58	Peak
4	403.60	-67.22	-61.68	-13.00	-54.22	-5.54	Peak
5	541.50	-67.78	-65.81	-13.00	-54.78	-1.97	Peak
6	701.80	-63.95	-65.41	-13.00	-50.95	1.46	Peak
7	1641.00	-45.31	-31.46	-13.00	-32.31	-13.85	Peak
8	2461.50	-45.47	-35.41	-13.00	-32.47	-10.06	Peak
9	5743.50	-47.95	-46.08	-13.00	-34.95	-1.87	Peak

LTE Band 26

CHANNEL BANDWIDTH: 1.4MHz / QPSK

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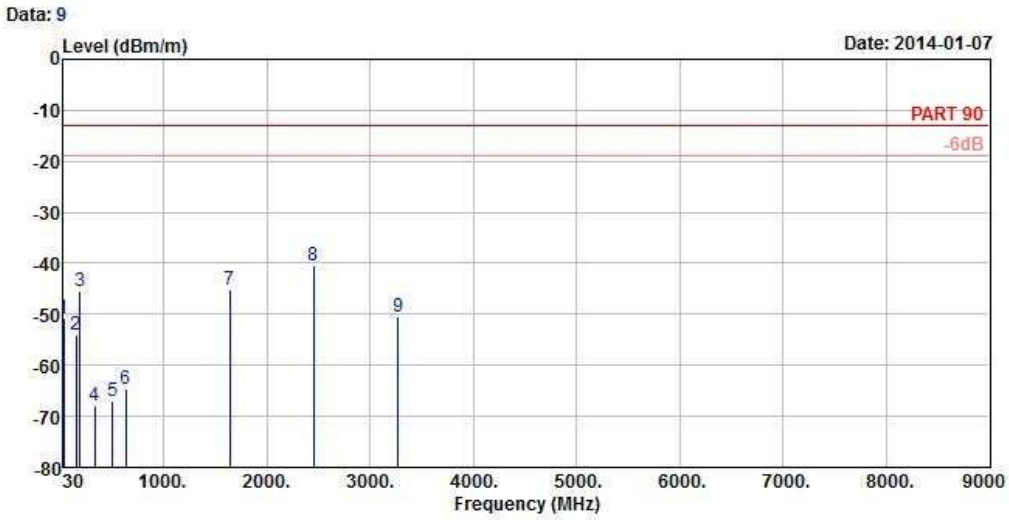

Site : 966 Chamber 5
Condition : PART 90 3m HORIZONTAL
Brand/Model: 0P6B700
Remark : Band 26_1.4M_QPSK(1,0) Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	32.97	-50.76	-49.65	-13.00	-37.76	-1.11	Peak
2	151.77	-54.09	-47.70	-13.00	-41.09	-6.39	Peak
3	186.87	-45.40	-38.93	-13.00	-32.40	-6.47	Peak
4	330.10	-67.96	-61.80	-13.00	-54.96	-6.16	Peak
5	507.20	-66.91	-64.01	-13.00	-53.91	-2.90	Peak
6	634.60	-64.50	-64.76	-13.00	-51.50	0.26	Peak
7	1637.00	-45.18	-31.31	-13.00	-32.18	-13.87	Peak
8 pp	2455.50	-40.39	-30.33	-13.00	-27.39	-10.06	Peak
9	3274.00	-50.43	-41.11	-13.00	-37.43	-9.32	Peak

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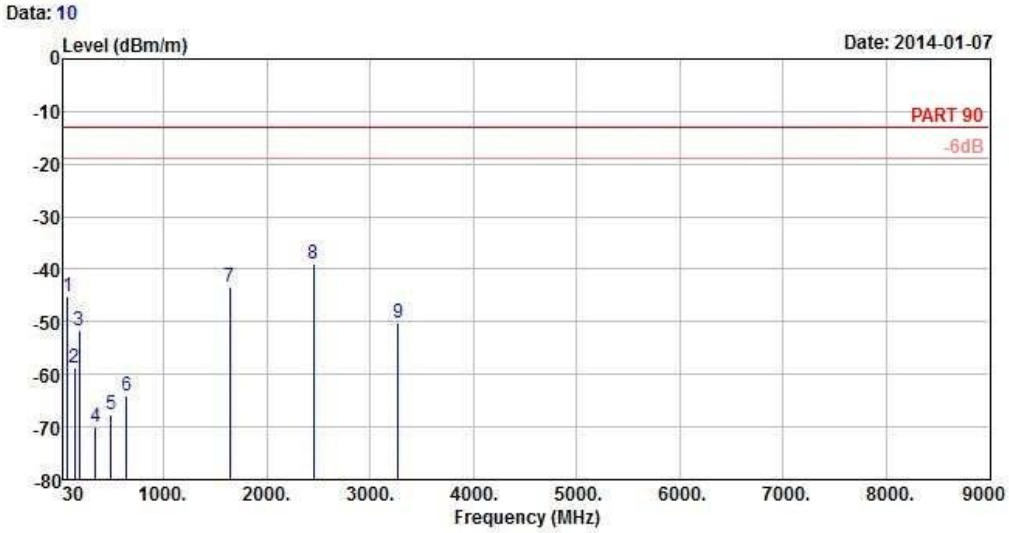

Site : 966 Chamber 5
Condition : PART 90 3m VERTICALL
Brand/Model: 0P6B700
Remark : Band 26_1.4M_QPSK(1,0) Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	68.88	-45.14	-36.12	-13.00	-32.14	-9.02	Peak
2	138.54	-58.82	-52.89	-13.00	-45.82	-5.93	Peak
3	182.01	-51.52	-45.62	-13.00	-38.52	-5.90	Peak
4	337.80	-69.85	-63.75	-13.00	-56.85	-6.10	Peak
5	491.80	-67.71	-64.40	-13.00	-54.71	-3.31	Peak
6	637.40	-64.12	-64.43	-13.00	-51.12	0.31	Peak
7	1637.00	-43.30	-29.43	-13.00	-30.30	-13.87	Peak
8 pp	2455.50	-39.07	-29.01	-13.00	-26.07	-10.06	Peak
9	3274.00	-50.20	-40.88	-13.00	-37.20	-9.32	Peak

LTE Band 26

CHANNEL BANDWIDTH: 3MHz / QPSK

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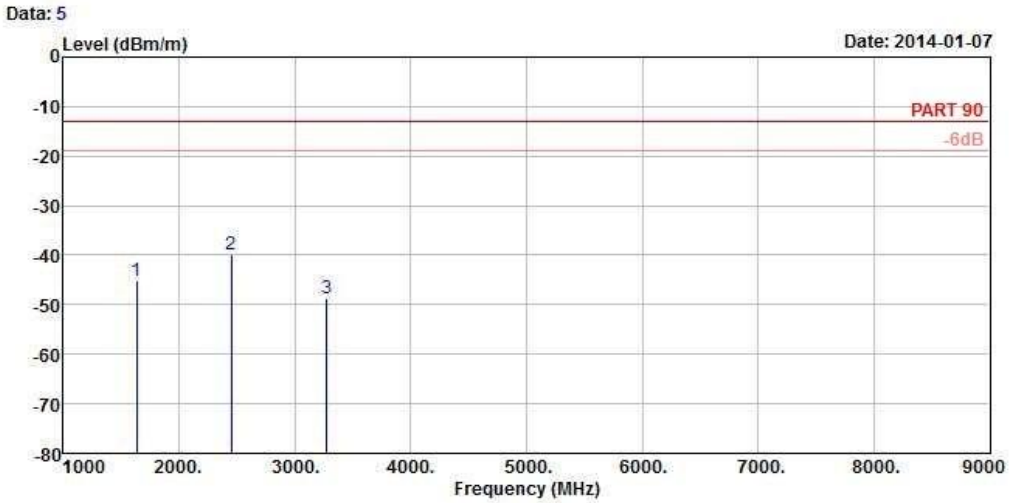

Site : 966 Chamber 5
Condition : PART 90 3m HORIZONTAL
Brand/Model: 0P6B700
Remark : Band 26_3M_QPSK(1,0) Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1635.40	-45.14	-31.27	-13.00	-32.14	-13.87	Peak
2 pp	2453.10	-39.94	-29.88	-13.00	-26.94	-10.06	Peak
3	3270.80	-48.68	-39.36	-13.00	-35.68	-9.32	Peak

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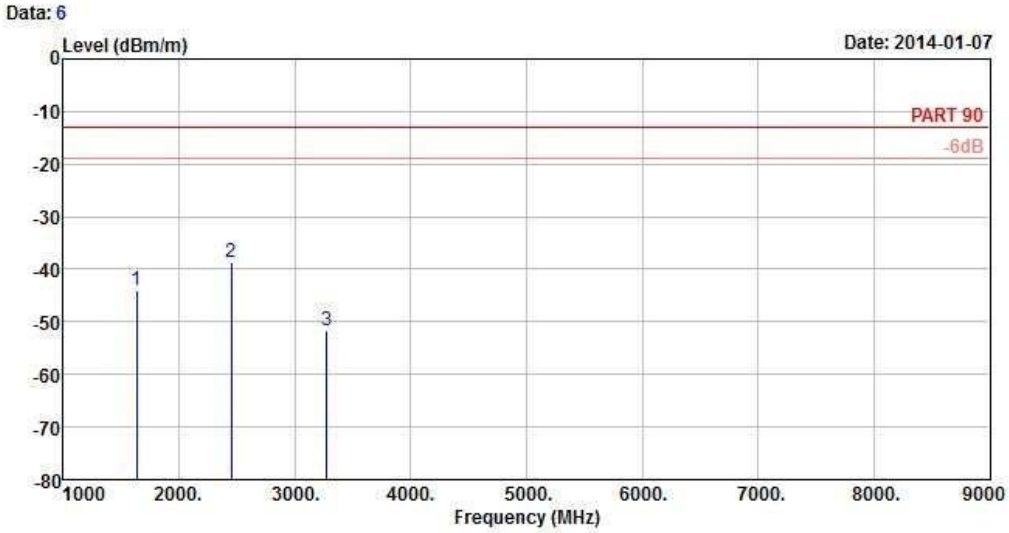


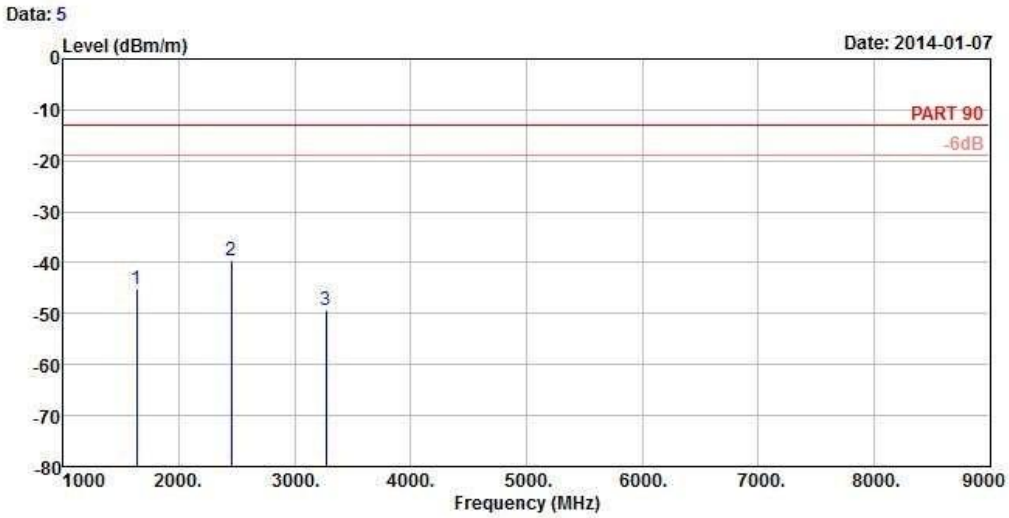
Site : 966 Chamber 5
Condition : PART 90 3m VERTICALL
Brand/Model: 0P6B700
Remark : Band 26_3M_QPSK(1,0) Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1635.40	-44.10	-30.23	-13.00	-31.10	-13.87	Peak
2 pp	2453.10	-38.72	-28.66	-13.00	-25.72	-10.06	Peak
3	3270.80	-51.61	-42.29	-13.00	-38.61	-9.32	Peak

LTE Band 26

CHANNEL BANDWIDTH: 5MHz / QPSK

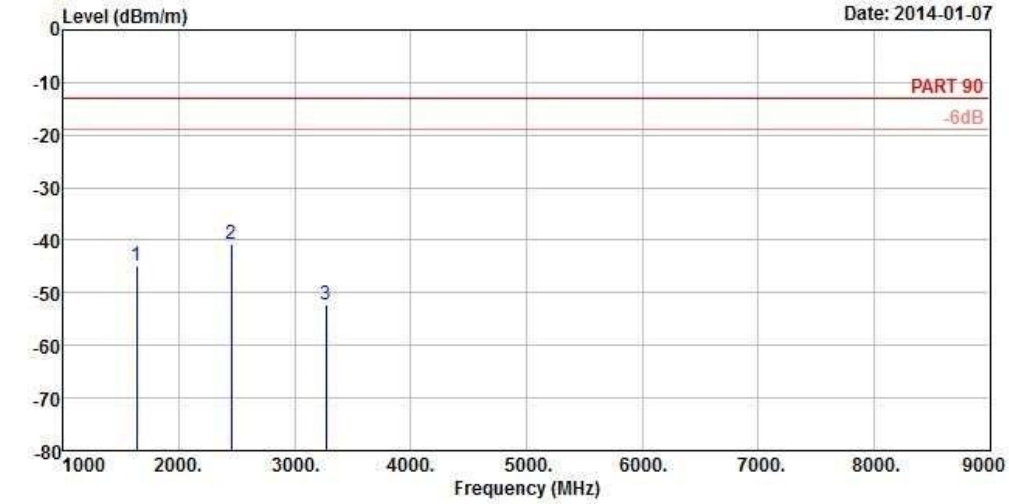
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition : PART 90 3m HORIZONTAL
Brand/Model: 0P6B700
Remark : Band 26_5M_QPSK(1,0) Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1633.60	-45.24	-31.37	-13.00	-32.24	-13.87	Peak
2 pp	2450.40	-39.51	-29.45	-13.00	-26.51	-10.06	Peak
3	3267.20	-49.42	-40.10	-13.00	-36.42	-9.32	Peak

Data: 6



Site : 966 Chamber 5
Condition : PART 90 3m VERTICALL
Brand/Model: 0P6B700
Remark : Band 26_5M_QPSK(1,0) Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1633.60	-44.91	-31.04	-13.00	-31.91	-13.87	Peak
2 pp	2450.40	-40.67	-30.61	-13.00	-27.67	-10.06	Peak
3	3267.20	-52.18	-42.86	-13.00	-39.18	-9.32	Peak

LTE Band 26

CHANNEL BANDWIDTH: 10MHz / QPSK

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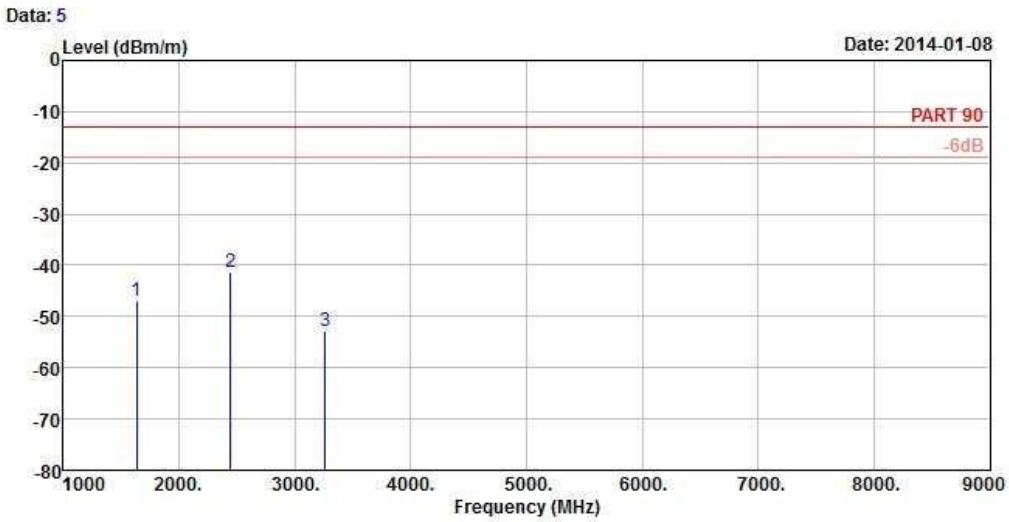
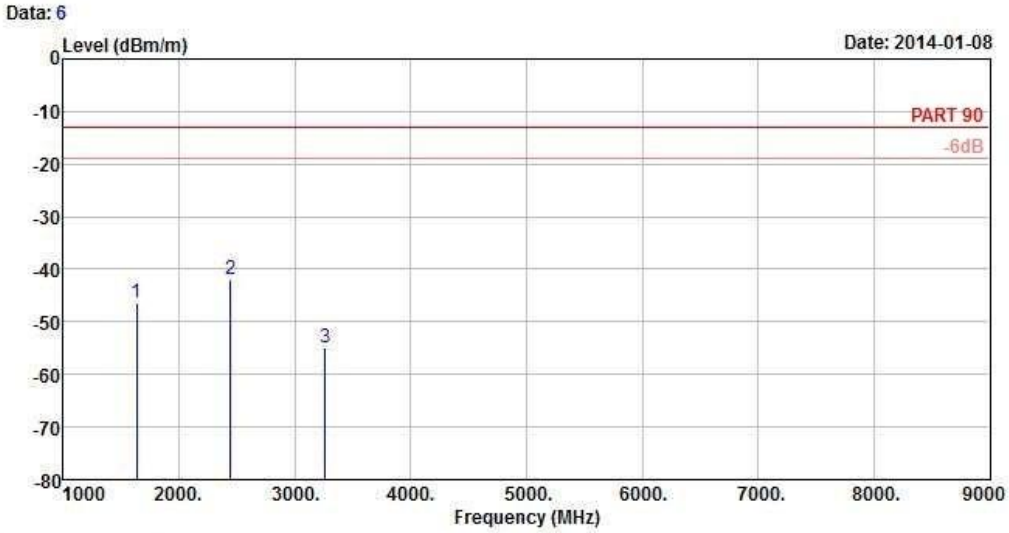


Site : 966 Chamber 5
Condition : PART 90 3m HORIZONTAL
Brand/Model: 0P6B700
Remark : Band 26_10M_QPSK(1,0) Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1629.20	-46.80	-32.93	-13.00	-33.80	-13.87	Peak
2 pp	2443.80	-41.23	-31.09	-13.00	-28.23	-10.14	Peak
3	3258.40	-52.70	-43.41	-13.00	-39.70	-9.29	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition : PART 90 3m VERTICALL
Brand/Model: 0P6B700
Remark : Band 26_10M_QPSK(1,0) Link
Tested by : Anson Lin
Temprature : 25℃
Humidity : 65%
Plane : Z

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1629.20	-46.23	-32.36	-13.00	-33.23	-13.87	Peak
2 pp	2443.80	-41.90	-31.76	-13.00	-28.90	-10.14	Peak
3	3258.40	-55.02	-45.73	-13.00	-42.02	-9.29	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:
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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.

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