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# FCC TEST REPORT (PART 90S)

**REPORT NO.:** RF131119C06-3  
**MODEL NO.:** C6725  
**FCC ID:** V65C6725  
**RECEIVED:** Nov. 19, 2013  
**TESTED:** Nov. 29, 2013 ~ Dec. 18, 2013  
**ISSUED:** Feb. 14, 2014

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF131119C06-3	Original release	Feb. 14, 2014



## 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 -25.31dB at 2457.00MHz.

### 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 Agilent	E4446A	MY51100039	Jul. 31, 2013	Jul. 30, 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. 25, 2012	Dec. 24, 2013
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2012	Dec. 27, 2013
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

<b>EUT</b>	Kyocera phone	
<b>MODEL NO.</b>	C6725	
<b>POWER SUPPLY</b>	5.0Vdc (adapter or host equipment) 3.8Vdc (battery)	
<b>MODULATION TYPE</b>	<b>CDMA BC10</b>	QPSK, OQPSK, HPSK
	<b>LTE Band 26</b>	QPSK, 16QAM
<b>FREQUENCY RANGE</b>	<b>CDMA BC10</b>	817.9MHz ~ 823.1MHz
	<b>LTE Band 26 (Channel Bandwidth: 1.4MHz)</b>	814.7MHz ~ 823.3MHz
	<b>LTE Band 26 (Channel Bandwidth: 3MHz)</b>	815.5MHz ~ 822.5MHz
	<b>LTE Band 26 (Channel Bandwidth: 5MHz)</b>	816.5MHz ~ 821.5MHz
	<b>LTE Band 26 (Channel Bandwidth: 10MHz)</b>	819MHz
<b>MAX. ERP POWER</b>	<b>CDMA BC10</b>	124.45mW
	<b>LTE Band 26 (Channel Bandwidth: 1.4MHz)</b>	95.94mW
	<b>LTE Band 26 (Channel Bandwidth: 3MHz)</b>	81.47mW
	<b>LTE Band 26 (Channel Bandwidth: 5MHz)</b>	81.10mW
	<b>LTE Band 26 (Channel Bandwidth: 10MHz)</b>	69.18mW
<b>EMISSION DESIGNATOR</b>	<b>CDMA BC10</b>	1M28F9W
	<b>LTE Band 26 (Channel Bandwidth: 1.4MHz)</b>	1M09G7D
	<b>LTE Band 26 (Channel Bandwidth: 3MHz)</b>	2M69G7D
	<b>LTE Band 26 (Channel Bandwidth: 5MHz)</b>	4M50G7D
	<b>LTE Band 26 (Channel Bandwidth: 10MHz)</b>	8M92G7D
<b>ANTENNA TYPE</b>	<b>CDMA BC10:</b> Fixed Internal antenna with -2.0dBi gain <b>LTE Band 26:</b> Fixed Internal antenna with -2.0dBi gain	
<b>I/O PORTS</b>	Refer to users' manual	
<b>DATA CABLE</b>	Refer to NOTE as below	
<b>ACCESSORY DEVICES</b>	Refer to NOTE as below	

**NOTE:**

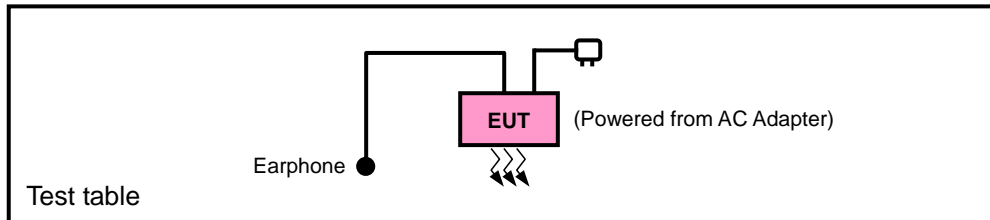
1. The EUT has following accessories.

ITEM	BRAND	MODEL	DESCRIPTION
AC Adapter	Kyocera	SCP-42ADT	I/P: 100-240Vac, 50/60Hz, 200mA O/P: 5Vdc, 1000mA
Li-ion Battery	Kyocera	SCP-59LBPS	Rating: 3.8Vdc, 2000mAh
USB cable	Kyocera	SCP-11SDC	1.2m non-shielded cable w/o ferrite core

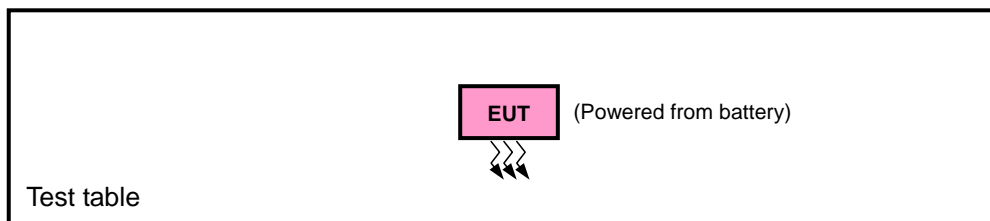
2. The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 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. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	EARPHONE	GALIEN	HF-HB04D	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

**NOTE:**

1. All power cords of the above support units are non-shielded (1.8m).
2. Item 1 was provided by client.



### 3.4 TEST ITEM AND TEST CONFIGURATION

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

#### CDMA MODE

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



**LTE BAND 26 MODE**

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE		
-	ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB / 2 RB Offset		
		26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB / 7 RB Offset		
		26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB / 12 RB Offset		
		26740	26740	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset		
-	FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK	1 RB / 2 RB Offset		
		26705 to 26775	26740	3MHz	QPSK	1 RB / 7 RB Offset		
		26715 to 26765	26740	5MHz	QPSK	1 RB / 12 RB Offset		
		26740	26740	10MHZ	QPSK	1 RB / 49 RB Offset		
-	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		
-	EMISSION MASK	26697 to 26783	26697	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset		
			26740	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset		
			26783	1.4MHz	QPSK, 16QAM	1 RB / 0 RB Offset		
			26740	1.4MHz	QPSK, 16QAM	6 RB / 0 RB Offset		
		26705 to 26775	26705	3MHz	QPSK, 16QAM	1 RB / 0 RB Offset		
			26740	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset		
			26775	3MHz	QPSK, 16QAM	15 RB / 0 RB Offset		
		26715 to 26765	26715	5MHz	QPSK, 16QAM	1 RB / 0 RB Offset		
			26740	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset		
			26775	5MHz	QPSK, 16QAM	25 RB / 0 RB Offset		
		26740	26740	10MHz	QPSK, 16QAM	1 RB / 0 RB Offset		
			26740	10MHz	QPSK, 16QAM	1 RB / 49 RB Offset		
			26740	10MHz	QPSK, 16QAM	50 RB / 0 RB Offset		
		-	CONDCUEDTED 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		
-	RADIATED EMISSION	26697 to 26783	26740	1.4MHz	QPSK	1 RB / 2 RB Offset		
		26705 to 26775	26740	3MHz	QPSK	1 RB / 7 RB Offset		
		26715 to 26765	26740	5MHz	QPSK	1 RB / 12 RB Offset		
		26740	26740	10MHZ	QPSK	1 RB / 24 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
CONDCUDED EMISSION	26deg. C, 58%RH	3.8Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Johnson Liao / Anson Lin

**3.5 EUT OPERATING CONDITIONS**

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

**3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS**

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

**FCC 47 CFR Part 2**

**FCC 47 CFR Part 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:**

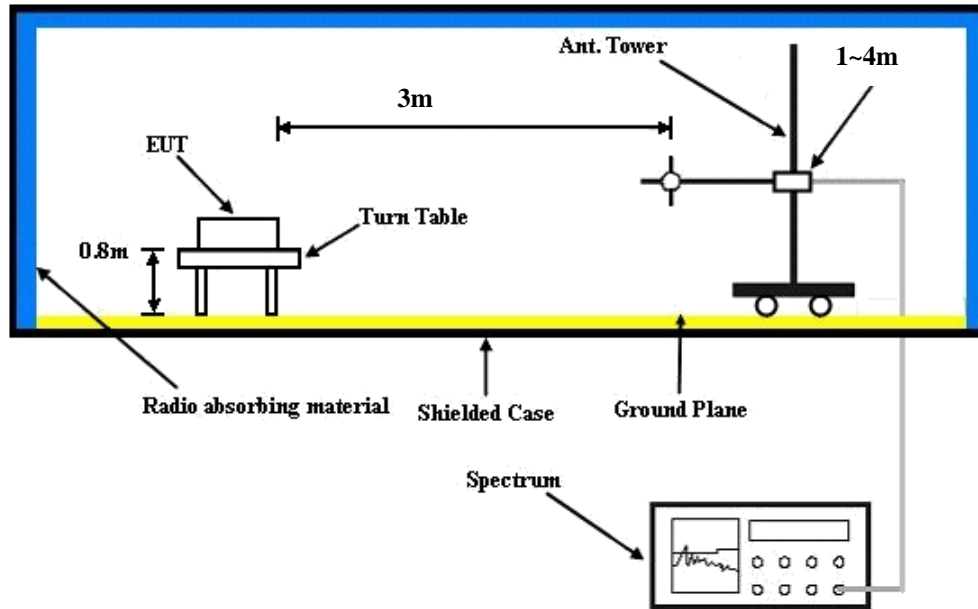
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 5MHz for CDMA mode, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 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.  $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$

##### **CONDUCTED POWER MEASUREMENT:**

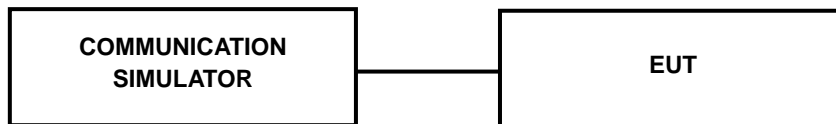
The EUT was set up for the maximum power with CDMA & LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

### 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
Frequency (MHz)	817.9	820.5	823.1
RC1+SO55	24.51	24.58	24.54
RC3+SO55	24.54	<b>24.61</b>	24.57
RC3+SO32(+ F-SCH)	24.46	24.53	24.49
RC3+SO32(+SCH)	24.47	24.54	24.50
RTAP 153.6	24.50	24.57	24.53
RETAP 4096	24.45	24.52	24.48

Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH	3PGG MPR (dB)
				26697	26740	26783	
				Frequency	Frequency	Frequency	
				814.7 MHz	819.0 MHz	823.3 MHz	
26 / 1.4M	QPSK	1	0	22.53	22.56	23.14	0
		1	2	22.60	23.00	23.30	0
		1	5	22.69	22.72	23.27	0
		3	0	22.58	22.61	23.16	0
		3	1	22.47	22.50	23.05	0
		3	3	22.41	22.39	22.94	0
		6	0	21.69	22.02	22.12	1
	16QAM	1	0	21.46	21.49	22.07	1
		1	2	21.54	21.93	22.23	1
		1	5	21.61	21.65	22.20	1
		3	0	21.50	21.54	22.09	1
		3	1	21.39	21.43	21.98	1
		3	3	21.28	21.32	21.87	1
		6	0	20.61	20.95	21.05	2

Band / BW	Modulation	RB Size	RB Offset	Low CH	Mid CH	High CH	3PGG MPR (dB)
				26705	26740	26775	
				Frequency	Frequency	Frequency	
				815.5 MHz	819.0 MHz	822.5 MHz	
26 / 3M	QPSK	1	0	22.53	22.57	23.15	0
		1	7	22.61	23.01	23.31	0
		1	14	22.69	22.73	23.28	0
		8	0	21.79	21.83	22.32	1
		8	3	21.65	22.12	22.19	1
		8	7	21.71	21.96	22.38	1
		15	0	21.69	22.03	22.13	1
	16QAM	1	0	21.46	21.50	22.08	1
		1	7	21.54	21.94	22.24	1
		1	14	21.62	21.66	22.21	1
		8	0	20.72	20.76	21.25	2
		8	3	20.58	21.05	21.12	2
		8	7	20.64	20.89	21.19	2
		15	0	20.62	20.96	21.06	2



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Band / BW	Modulation	RB Size	RB Offset	Low CHG 26715	Mid CH 26740	High CH 26765	3PGG MPR (dB)
				Frequency 816.5 MHz	Frequency 819.0 MHz	Frequency 821.5 MHz	
26 / 5M	QPSK	1	0	22.54	22.58	23.16	0
		1	12	22.62	23.02	<b>23.32</b>	0
		1	24	22.70	22.74	23.29	0
		12	0	21.80	21.84	22.33	1
		12	6	21.66	22.13	22.20	1
		12	13	21.72	21.97	22.39	1
		25	0	21.70	22.04	22.14	1
	16QAM	1	0	21.47	21.51	22.09	1
		1	12	21.55	21.95	22.25	1
		1	24	21.63	21.67	22.22	1
		12	0	20.73	20.77	21.26	2
		12	6	20.59	21.06	21.13	2
		12	13	20.65	20.90	21.20	2
		25	0	20.63	20.97	21.07	2

Band / BW	Modulation	RB Size	RB Offset	Mid CH 26740	3PGG MPR (dB)
				Frequency 819.0 MHz	
26 / 10M	QPSK	1	0	22.55	0
		1	24	22.63	0
		1	49	22.71	0
		25	0	21.81	1
		25	12	21.67	1
		25	25	21.73	1
		50	0	21.71	1
	16QAM	1	0	21.48	1
		1	24	21.56	1
		1	49	21.64	1
		25	0	20.74	2
		25	12	20.60	2
		25	25	20.66	2
		50	0	20.64	2



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## ERP POWER (dBm)

### CDMA

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	476	817.9	-9.65	32.62	20.82	120.78	H
	580	820.5	-9.42	32.52	20.95	124.45	H
	684	823.1	-9.72	32.65	20.78	119.67	H
	476	817.9	-21.16	32.76	9.45	8.81	V
	580	820.5	-21.54	32.39	8.70	7.41	V
	684	823.1	-21.22	32.54	9.17	8.26	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	-10.82	32.62	19.65	92.26	H
	26740	819	-10.85	32.52	19.52	89.54	H
	26783	823.3	-10.68	32.65	19.82	95.94	H
	26697	814.7	-18.41	32.76	12.20	16.60	V
	26740	819	-18.26	32.39	11.98	15.78	V
	26783	823.3	-18.81	32.54	11.58	14.39	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	-12.28	32.62	18.19	65.92	H
	26740	819	-12.26	32.52	18.11	64.71	H
	26783	823.3	-12.54	32.65	17.96	62.52	H
	26697	814.7	-18.27	32.76	12.34	17.14	V
	26740	819	-18.04	32.39	12.20	16.60	V
	26783	823.3	-18.62	32.54	11.77	15.03	V





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### CHANNEL BANDWIDTH: 3MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26705	815.5	-10.76	32.02	19.11	81.47	H
	26740	819	-10.86	32.11	19.10	81.28	H
	26775	822.5	-11.15	32.18	18.88	77.27	H
	26705	815.5	-19.01	32.5	11.34	13.61	V
	26740	819	-19.03	32.51	11.33	13.58	V
	26775	822.5	-19.28	32.47	11.04	12.71	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	-11.67	32.02	18.20	66.07	H
	26740	819	-11.66	32.11	18.30	67.61	H
	26775	822.5	-11.41	32.18	18.62	72.78	H
	26705	815.5	-18.72	32.5	11.63	14.55	V
	26740	819	-18.92	32.51	11.44	13.93	V
	26775	822.5	-18.67	32.47	11.65	14.62	V



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### CHANNEL BANDWIDTH: 5MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26715	816.5	-10.94	32.04	18.95	78.52	H
	26740	819	-10.87	32.11	19.09	81.10	H
	26765	821.5	-11.09	31.79	18.55	71.61	H
	26715	816.5	-19.04	32.52	11.33	13.58	V
	26740	819	-19.01	32.51	11.35	13.65	V
	26765	821.5	-19.38	32.17	10.64	11.59	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	-11.83	32.04	18.06	63.97	H
	26740	819	-11.76	32.11	18.20	66.07	H
	26765	821.5	-11.44	31.79	18.20	66.07	H
	26715	816.5	-18.71	32.52	11.66	14.66	V
	26740	819	-18.93	32.51	11.43	13.90	V
	26765	821.5	-18.26	32.17	11.76	15.00	V

### CHANNEL BANDWIDTH: 10MHz QPSK

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26740	819	-11.56	32.11	18.40	69.18	H
	26740	819	-19.36	32.51	11.00	12.59	V

### CHANNEL BANDWIDTH: 10MHz 16QAM

Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)
Y	26740	819	-12.23	32.11	17.73	59.29	H
	26740	819	-19.19	32.51	11.17	13.09	V

## 4.2 FREQUENCY STABILITY MEASUREMENT

### 4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

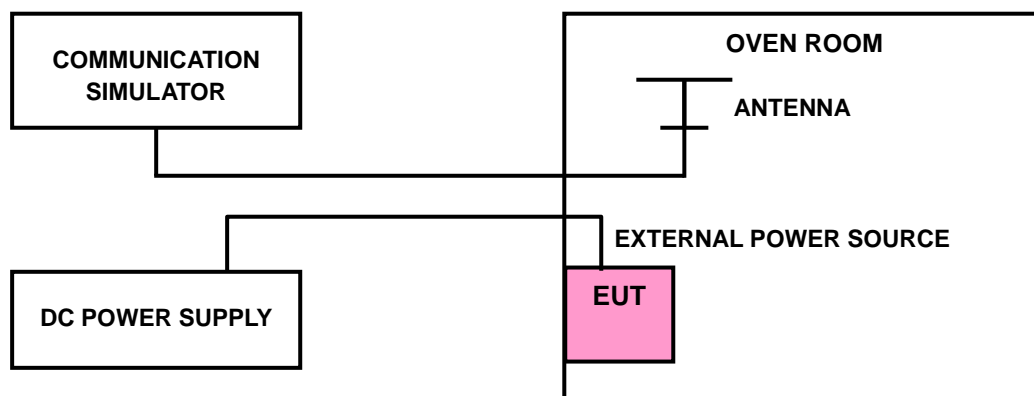
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

### 4.2.2 TEST PROCEDURE

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

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

### 4.2.3 TEST SETUP



#### 4.2.4 TEST RESULTS

##### FREQUENCY ERROR vs. VOLTAGE

VOLTAGE (Volts)	FREQUENCY ERROR (ppm)					LIMIT (ppm)
	CDMA	LTE Band 26				
		1.4MHz	3MHz	5MHz	10MHz	
3.7	0.003	0.005	-0.012	-0.004	-0.005	2.5
3.3	0.003	0.005	0.003	0.001	-0.004	2.5
4.2	0.004	0.004	-0.007	-0.001	-0.001	2.5

**NOTE:** The applicant defined the normal working voltage of the battery is from 3.3Vdc to 4.2Vdc.

##### FREQUENCY ERROR vs. TEMPERATURE

TEMP. (°C)	FREQUENCY ERROR (ppm)					LIMIT (ppm)
	CDMA	LTE Band 26				
		1.4MHz	3MHz	5MHz	10MHz	
-30	0.003	-0.007	-0.0021	-0.002	-0.005	2.5
-20	0.004	0.000	0.0004	-0.001	-0.006	2.5
-10	0.004	-0.003	-0.0107	-0.001	0.004	2.5
0	0.003	-0.004	0.0051	-0.001	-0.001	2.5
10	0.003	-0.005	-0.0040	-0.005	-0.002	2.5
20	0.003	-0.002	-0.0067	-0.004	-0.001	2.5
30	0.004	0.002	-0.0085	-0.006	-0.003	2.5
40	0.003	-0.006	-0.0023	-0.002	-0.004	2.5
50	0.003	-0.008	-0.0061	-0.008	0.002	2.5
55	0.003	-0.006	-0.0007	-0.003	-0.002	2.5

**Note:**

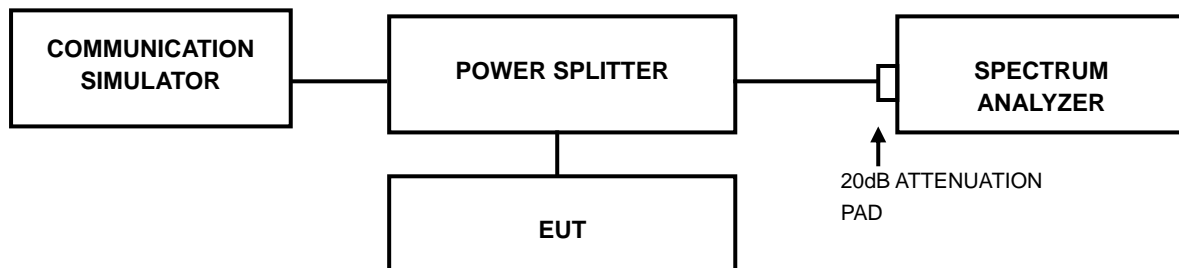
1. The applicant declared that the normal operating temperature of the EUT is from -30°C to 55°C.
2. The EUT would shut down automatically as below -30°C.

## 4.3 OCCUPIED BANDWIDTH MEASUREMENT

### 4.3.1 TEST PROCEDURES

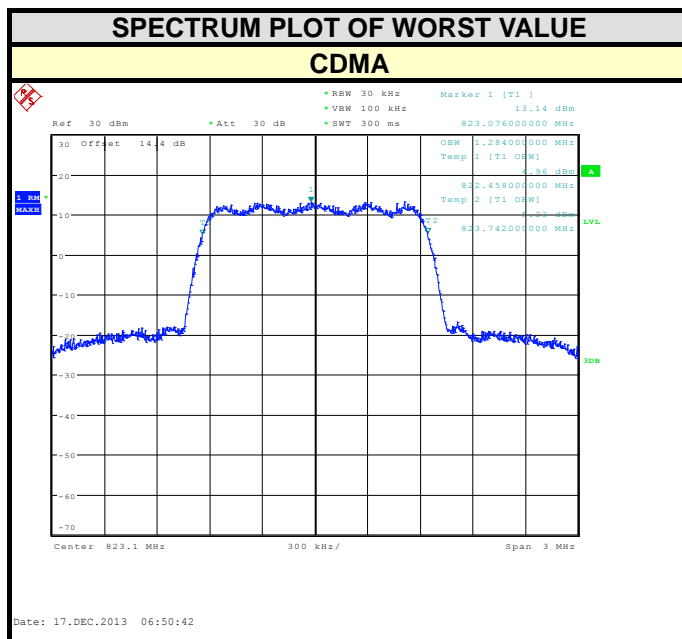
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function 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	1.284

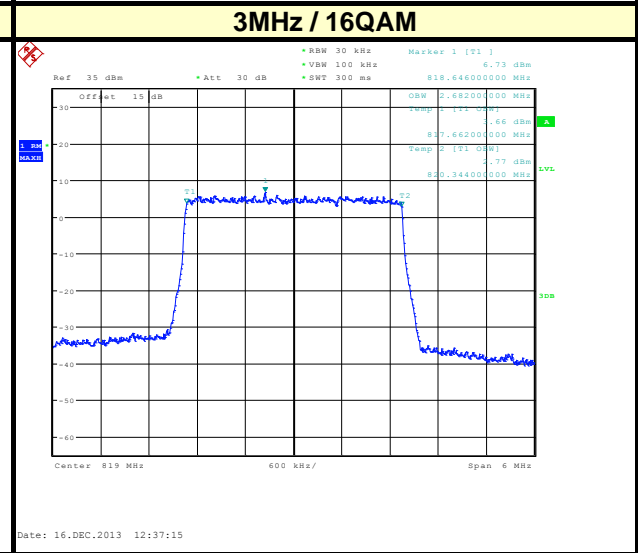
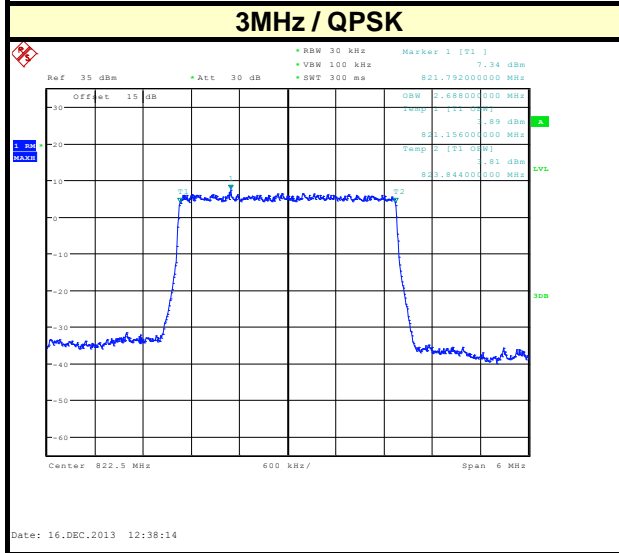
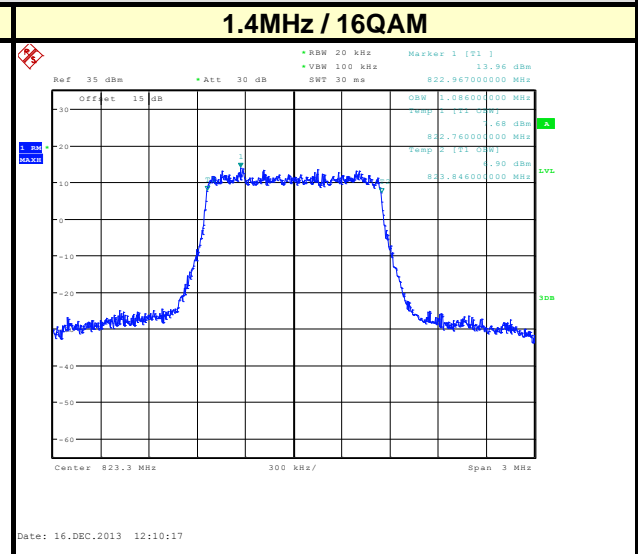
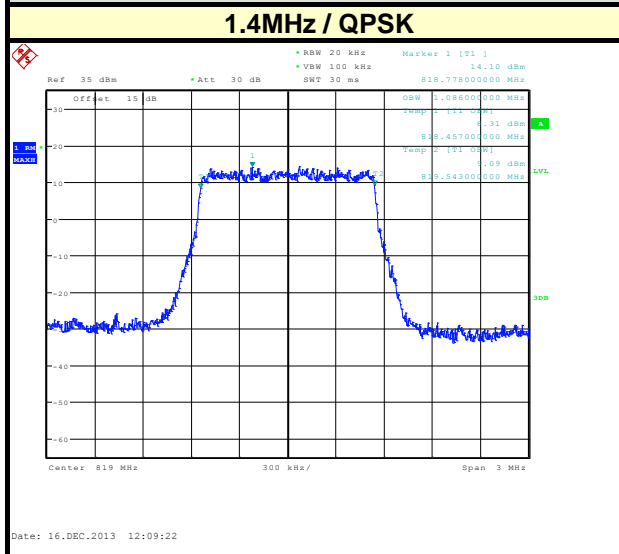




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LTE BAND 26							
CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26697	814.7	1.086	1.086	26705	815.5	2.688	2.682
26740	819	1.086	1.086	26740	819	2.688	2.682
26783	823.3	1.083	1.086	26775	822.5	2.688	2.682

**SPECTRUM PLOT OF WORST VALUE**

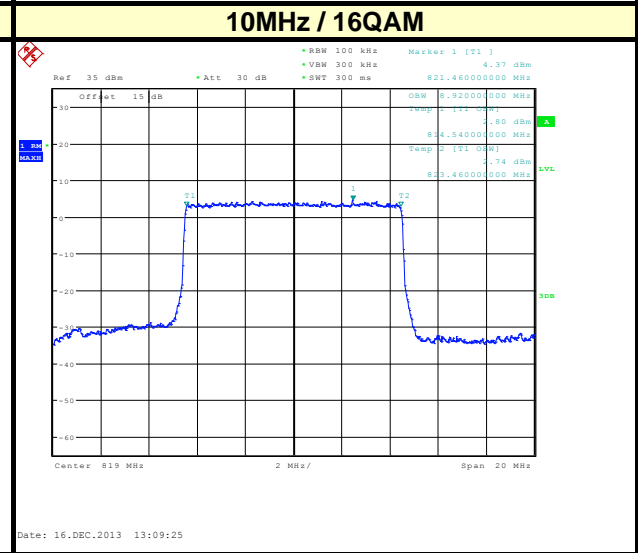
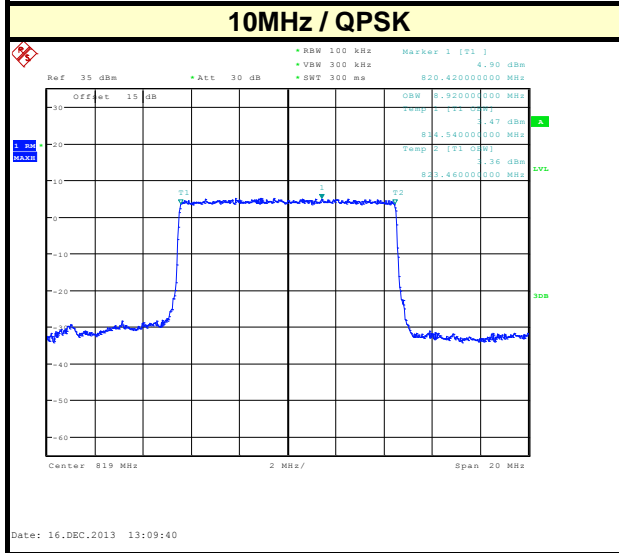
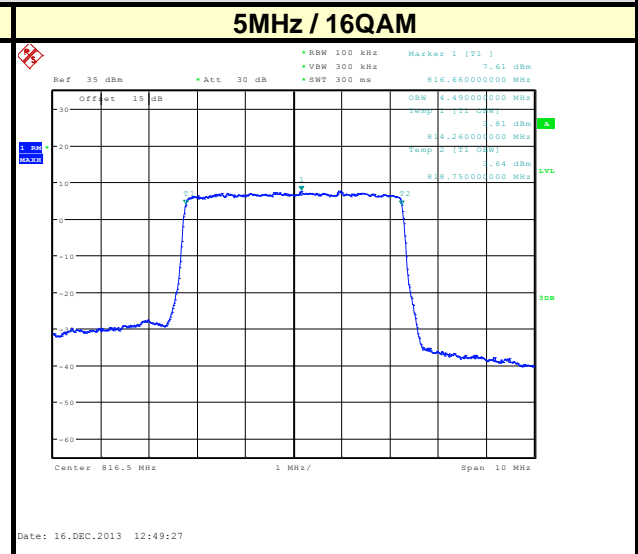
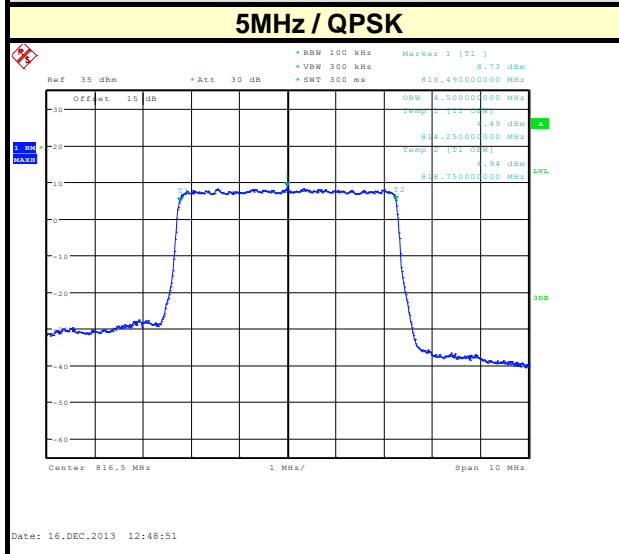




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LTE BAND 26							
CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)		CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)	
		QPSK	16QAM			QPSK	16QAM
26715	816.5	4.50	4.49	26740	819	8.92	8.92
26740	819	4.50	4.48				
26765	821.5	4.50	4.49				

**SPECTRUM PLOT OF WORST VALUE**



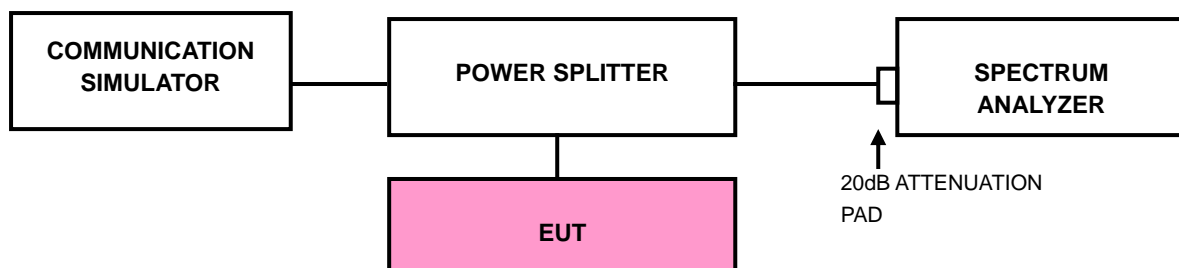


## 4.4 EMISSION MASK MEASUREMENT

### 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  $116 \log_{10}(f/6.1)$  decibels or  $50 + 10 \log_{10}(P)$  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



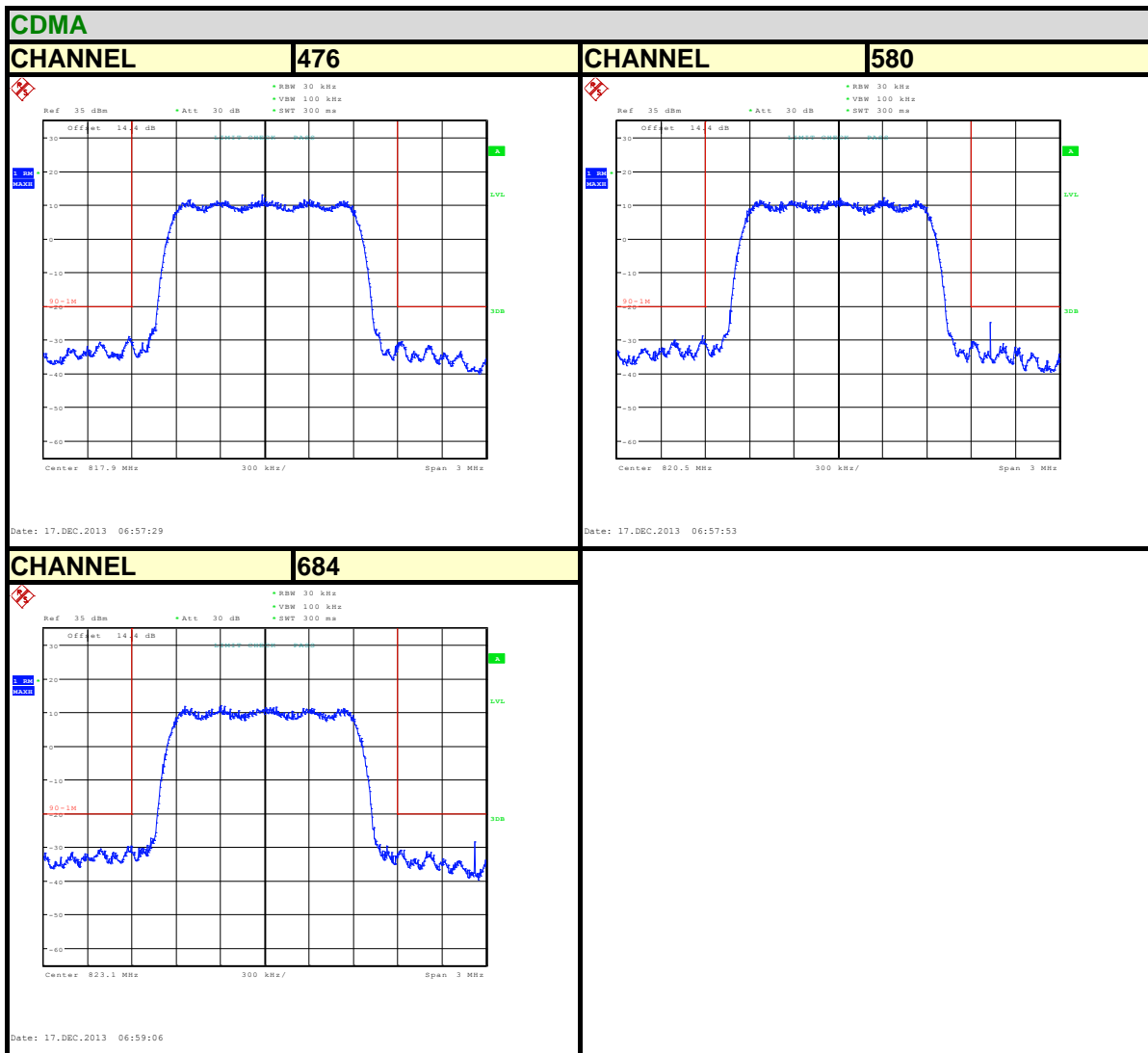
### 4.4.3 TEST PROCEDURES

- a. The measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- b. Record the test plot.



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### 4.4.4 TEST RESULTS



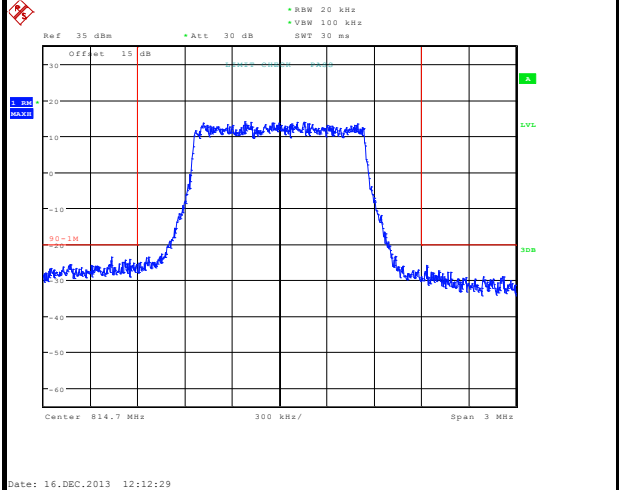
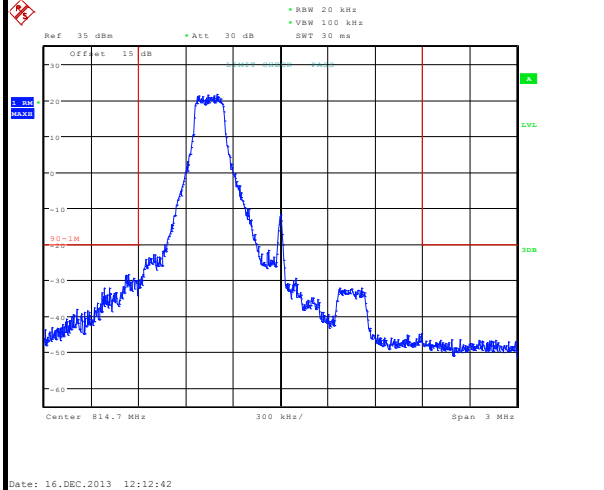


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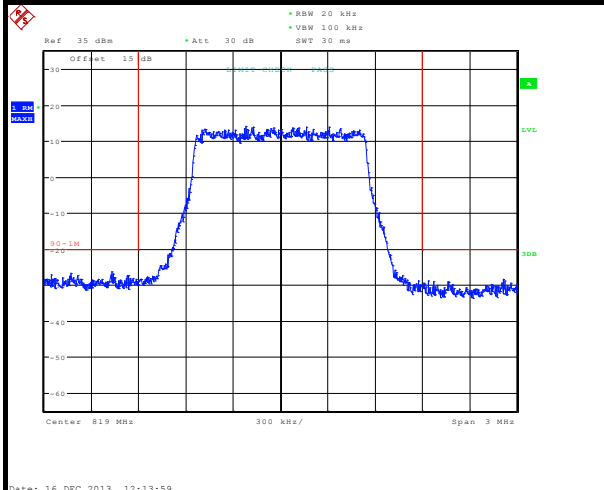
### LTE Band 26

### Channel Bandwidth: 1.4MHz / QPSK

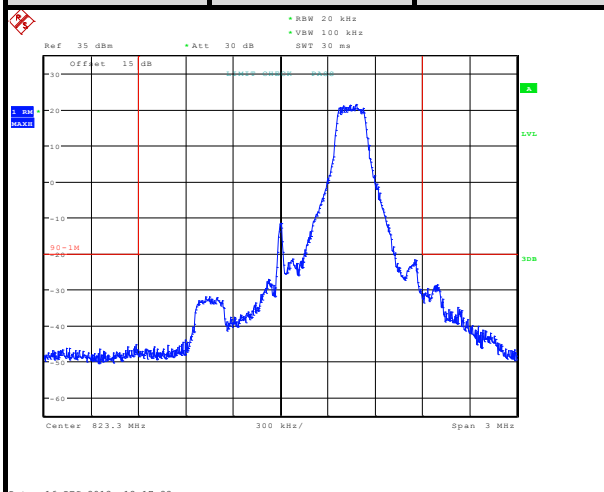
<b>CHANNEL</b>	<b>26697</b>	<b>1 RB</b>	<b>CHANNEL</b>	<b>26697</b>	<b>6 RB</b>
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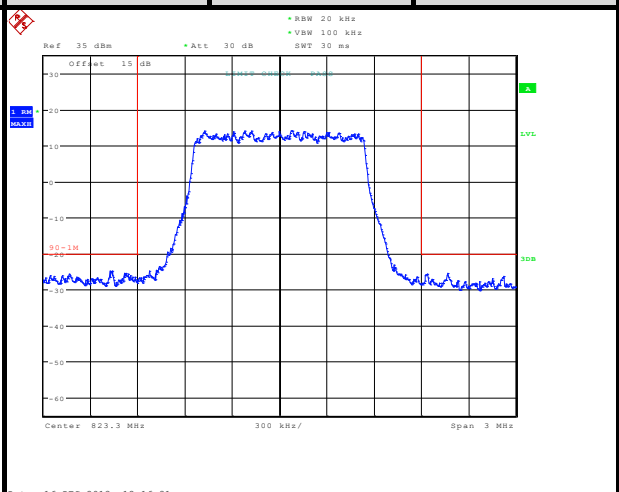
<b>CHANNEL</b>	<b>26797</b>	<b>6 RB</b>
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<b>CHANNEL</b>	<b>26783</b>	<b>1 RB</b>
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<b>CHANNEL</b>	<b>26783</b>	<b>6 RB</b>
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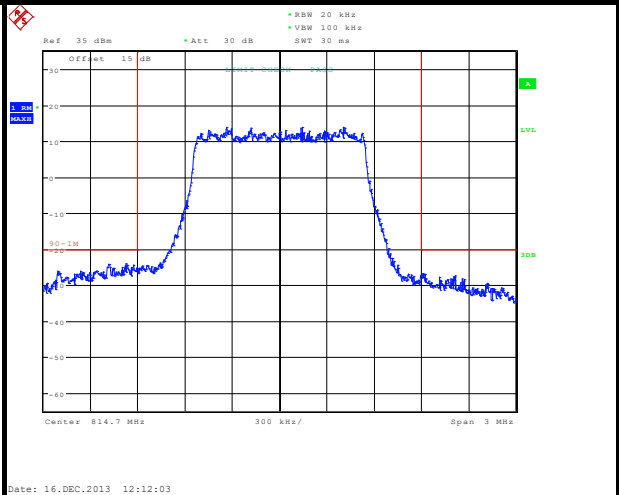
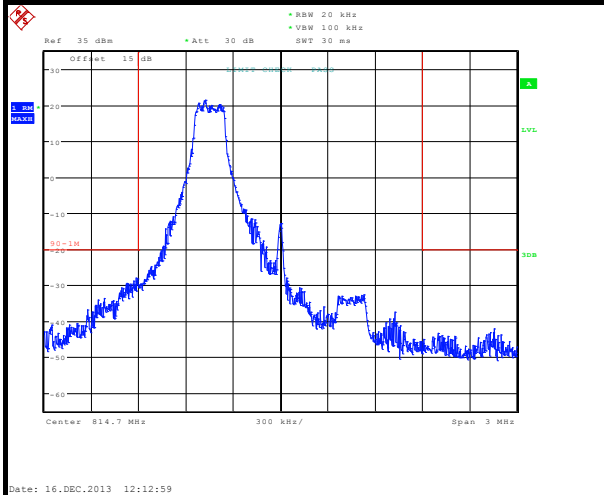


A D T

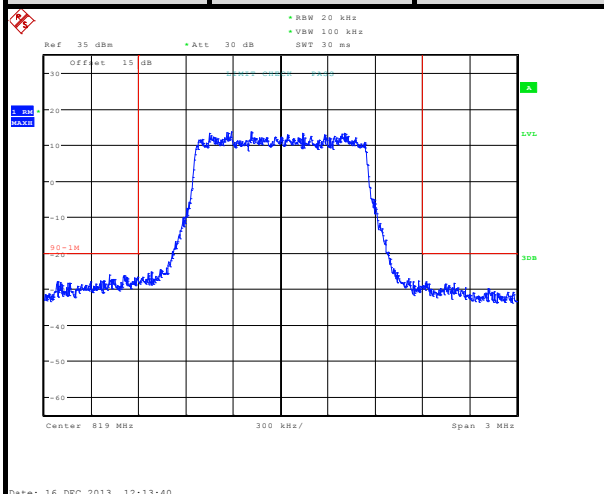
### LTE Band 26

### Channel Bandwidth: 1.4MHz / 16QAM

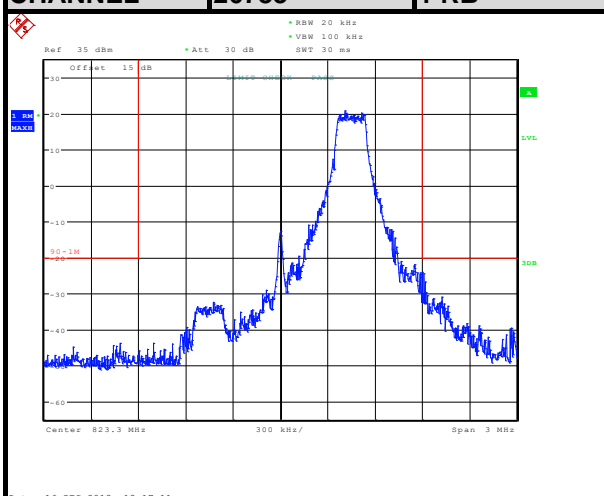
<b>CHANNEL</b>	<b>26697</b>	<b>1 RB</b>	<b>CHANNEL</b>	<b>26697</b>	<b>6 RB</b>
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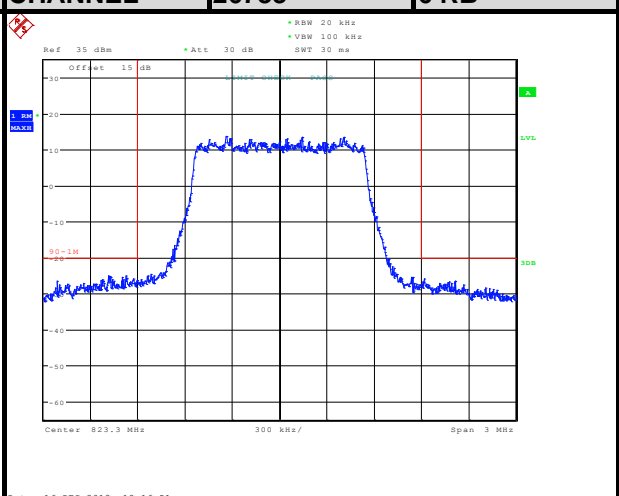
<b>CHANNEL</b>	<b>26797</b>	<b>6 RB</b>
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<b>CHANNEL</b>	<b>26783</b>	<b>1 RB</b>
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<b>CHANNEL</b>	<b>26783</b>	<b>6 RB</b>
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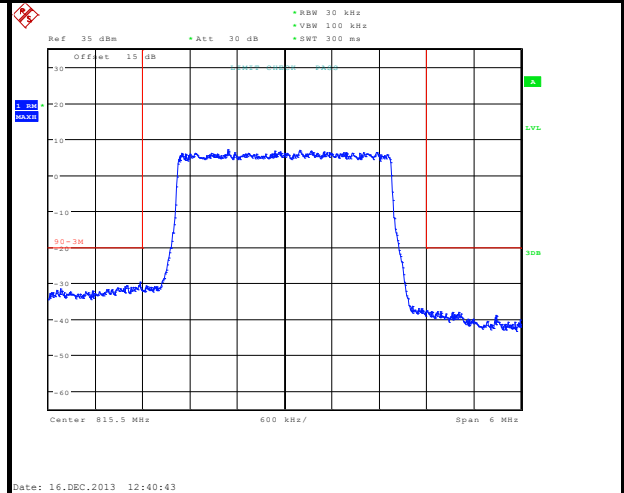
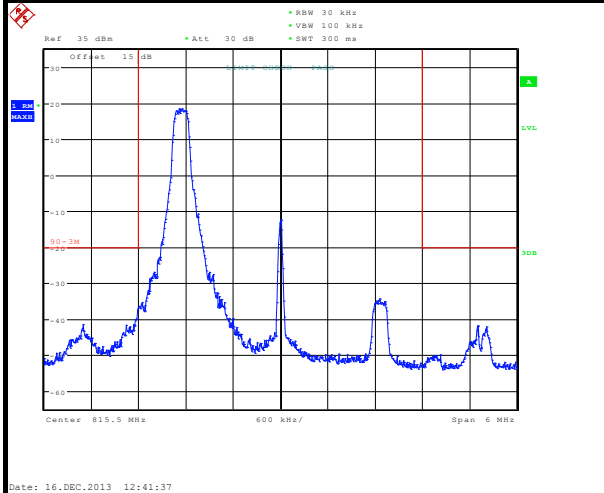


A D T

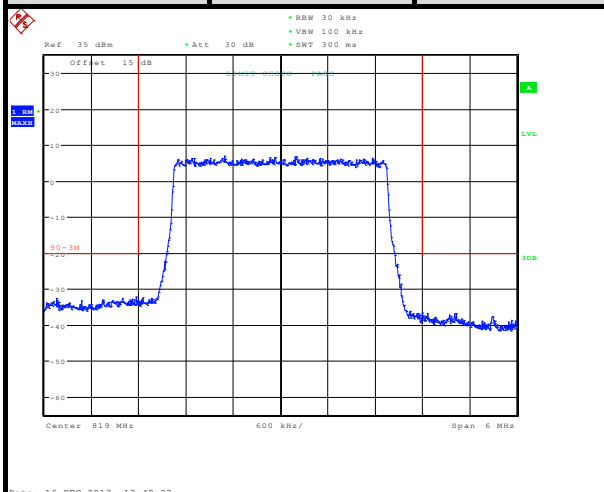
### LTE Band 26

### Channel Bandwidth: 3MHz / QPSK

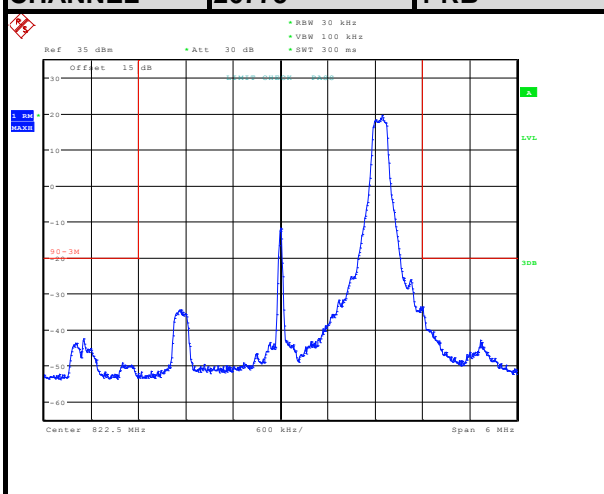
CHANNEL	26705	1 RB	CHANNEL	26705	15 RB
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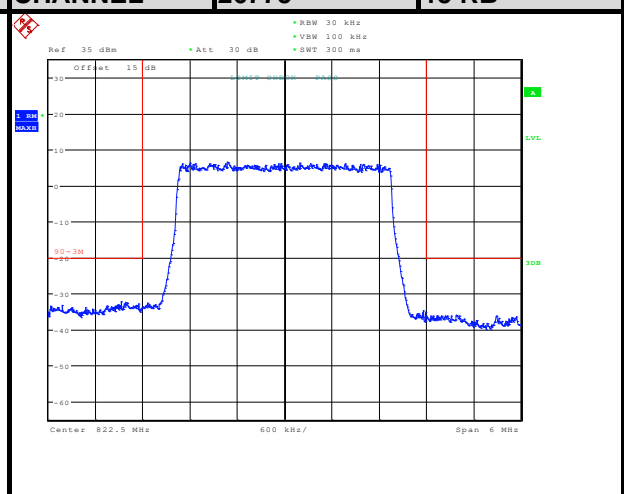
CHANNEL	26740	15 RB
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CHANNEL	26775	1 RB
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CHANNEL	26775	15 RB
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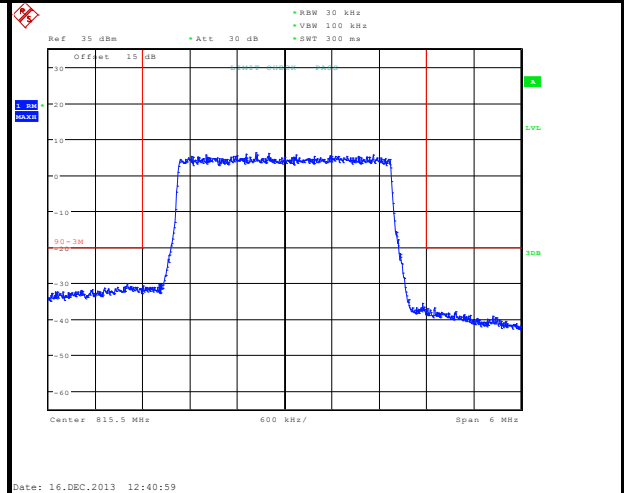
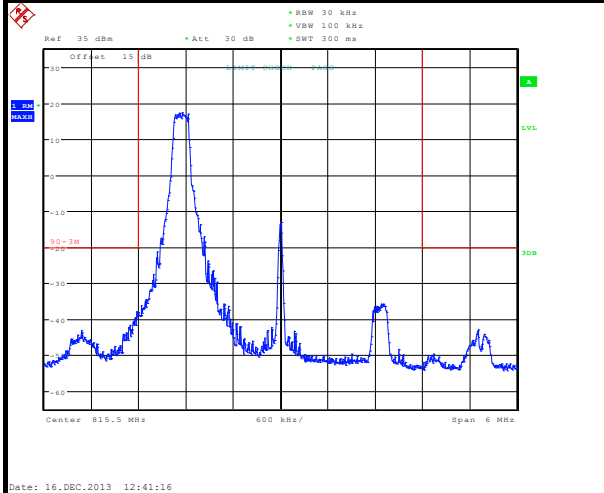




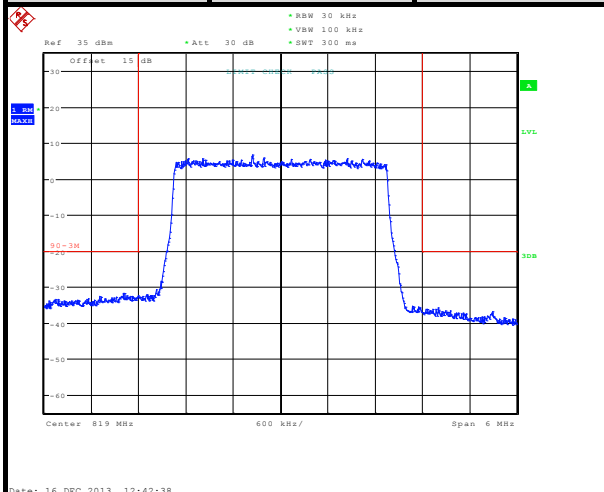
A D T

**LTE Band 26**  
**Channel Bandwidth: 3MHz / 16QAM**

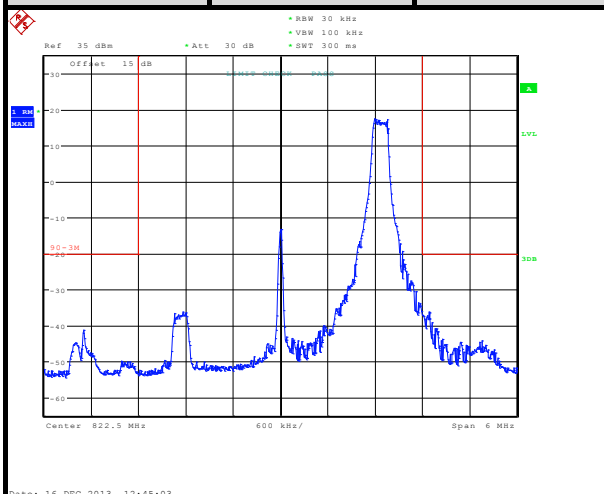
**CHANNEL 26705 1 RB**      **CHANNEL 26705 15 RB**



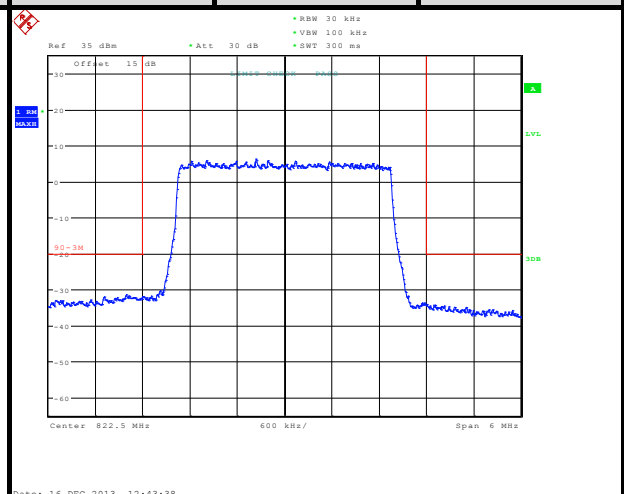
**CHANNEL 26740 15 RB**



**CHANNEL 26775 1 RB**



**CHANNEL 26775 15 RB**



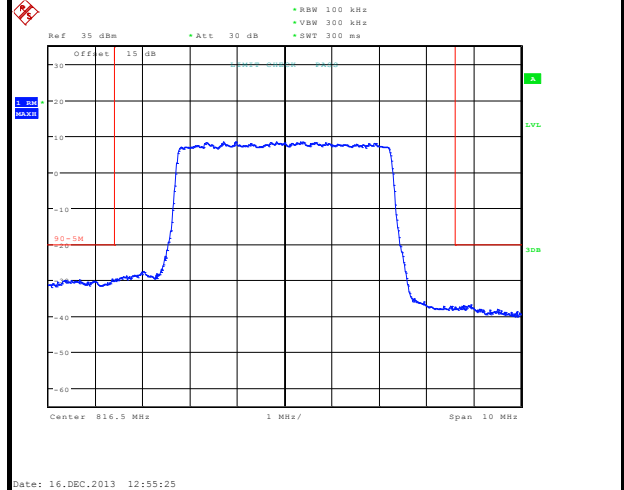
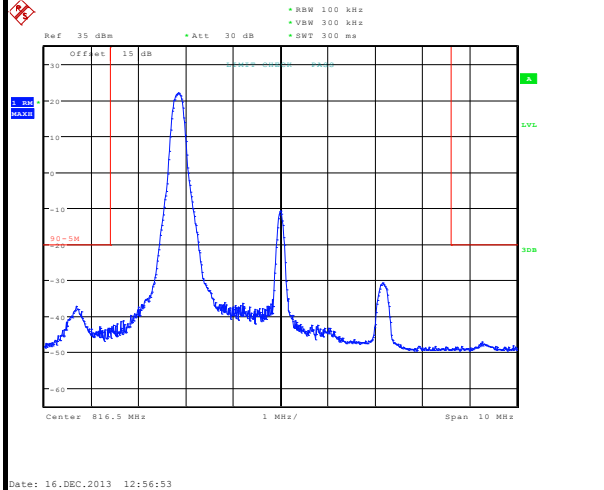


A D T

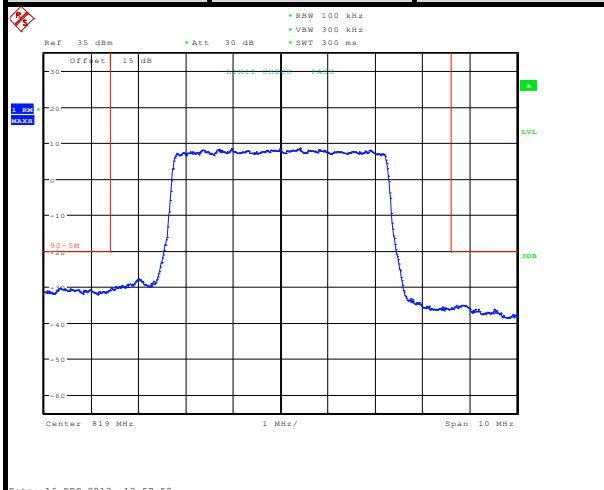
### LTE Band 26

### Channel Bandwidth: 5MHz / QPSK

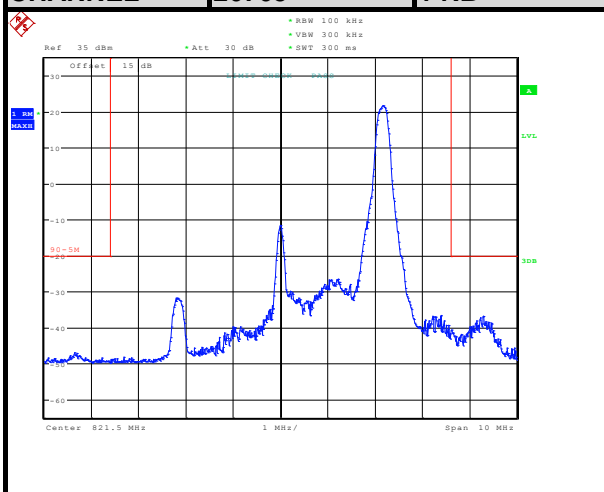
CHANNEL	26715	1 RB	CHANNEL	26715	25 RB
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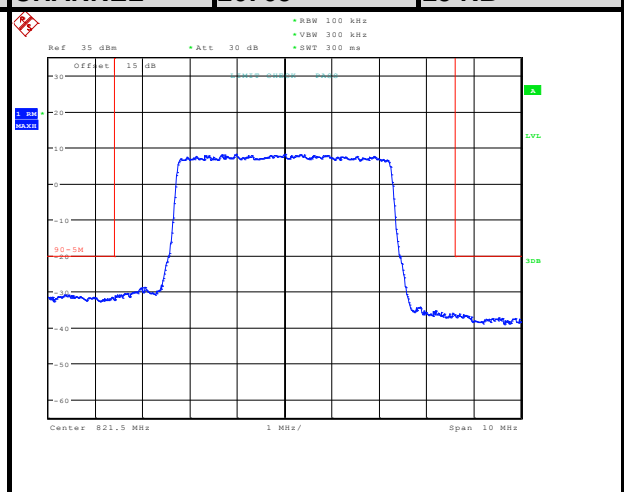
CHANNEL	26740	25 RB
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CHANNEL	26765	1 RB
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CHANNEL	26765	25 RB
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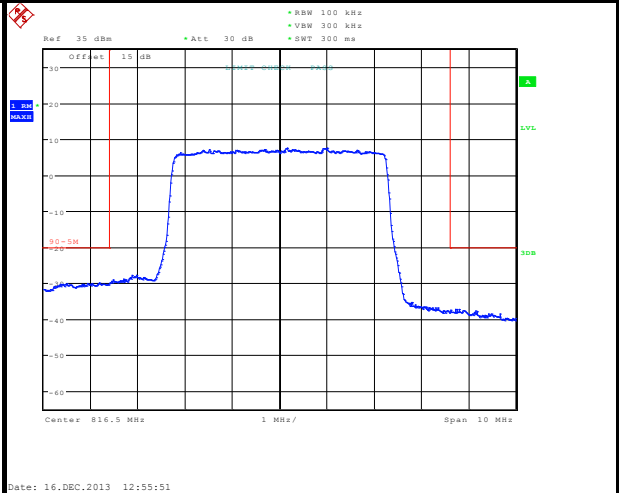
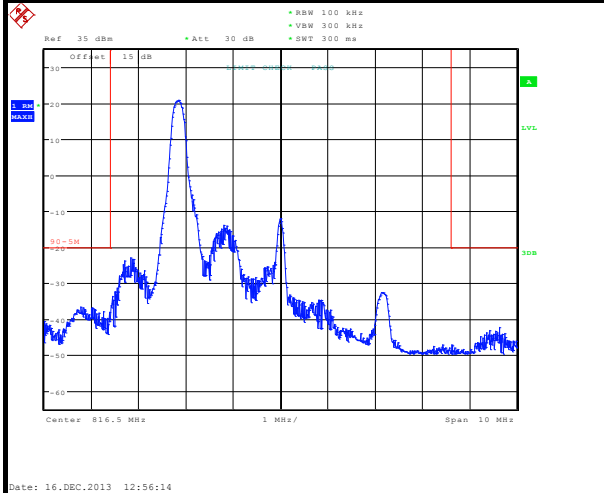


A D T

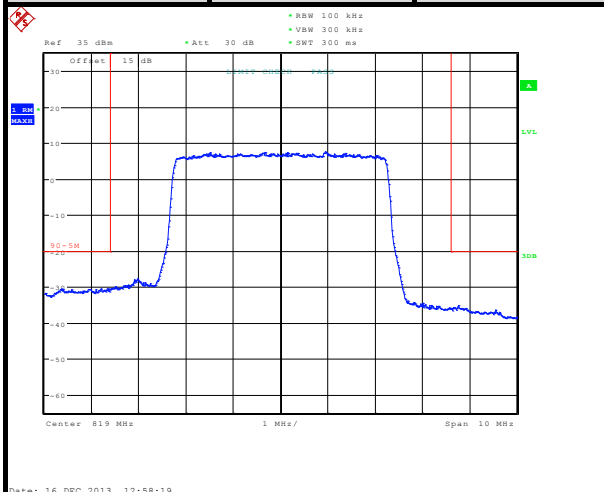
### LTE Band 26

### Channel Bandwidth: 5MHz / 16QAM

CHANNEL	26715	1 RB	CHANNEL	26715	25 RB
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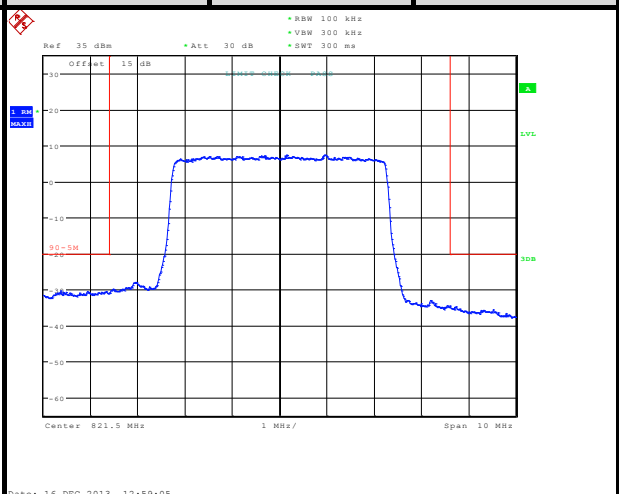
CHANNEL	26740	25 RB
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CHANNEL	26765	1 RB
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CHANNEL	26765	25 RB
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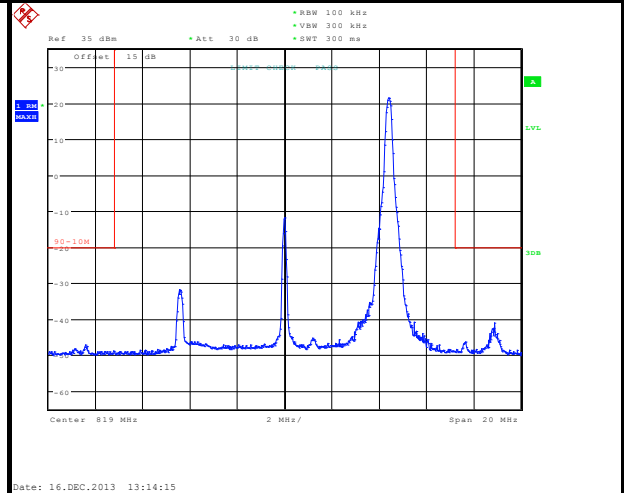
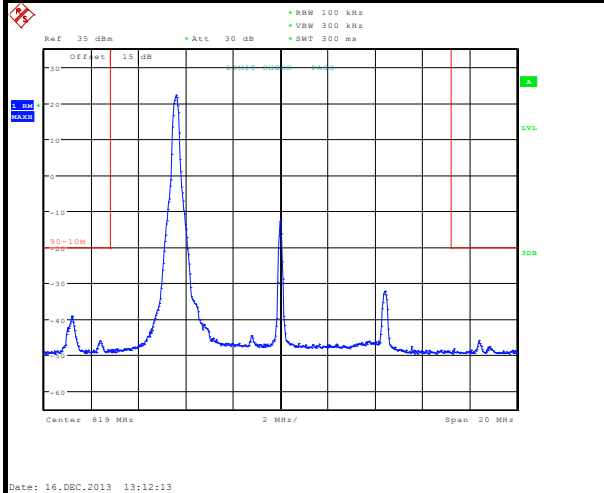


A D T

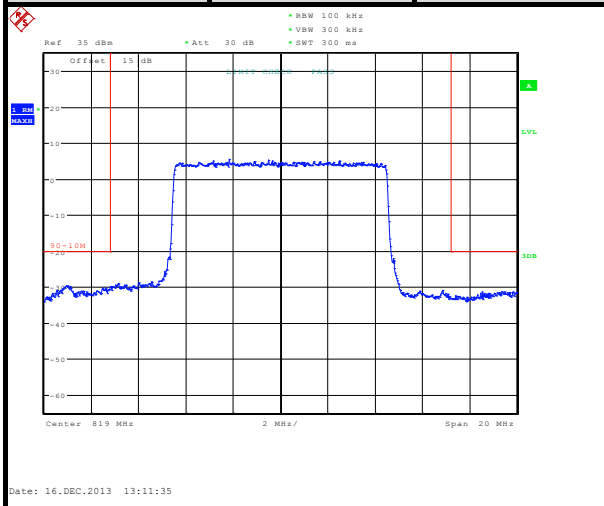
### LTE Band 26

### Channel Bandwidth: 10MHz / QPSK

CHANNEL	26740	1 RB	CHANNEL	26740	1 RB
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CHANNEL	26740	50 RB
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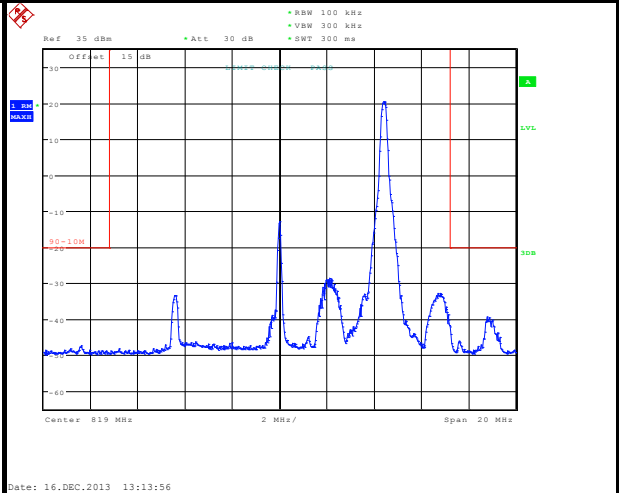
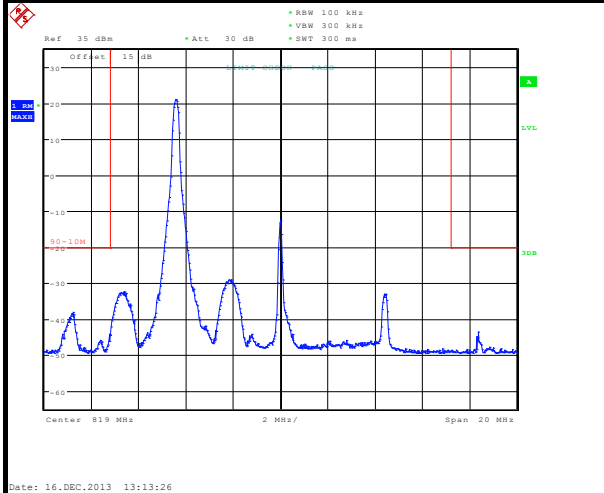


A D T

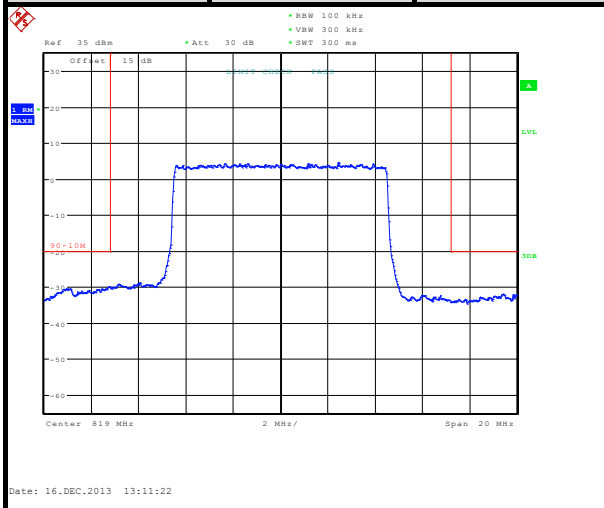
### LTE Band 26

#### Channel Bandwidth: 10MHz / 16QAM

CHANNEL 26740 1 RB CHANNEL 26740 1 RB



CHANNEL 26740 50 RB



## 4.5 CONDUCTED SPURIOUS EMISSIONS

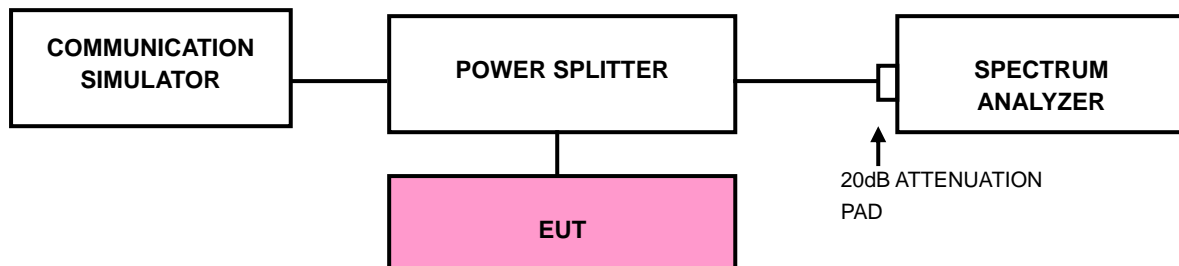
### 4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 equal to  $-13\text{dBm}$ .

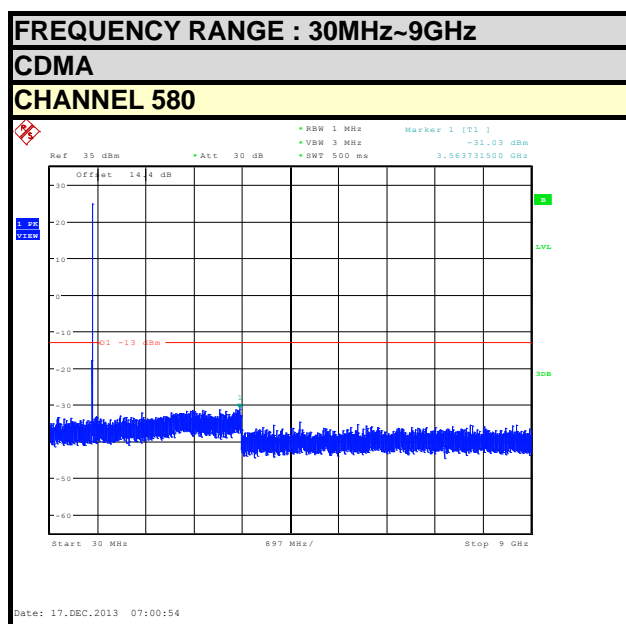
### 4.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30 MHz to 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



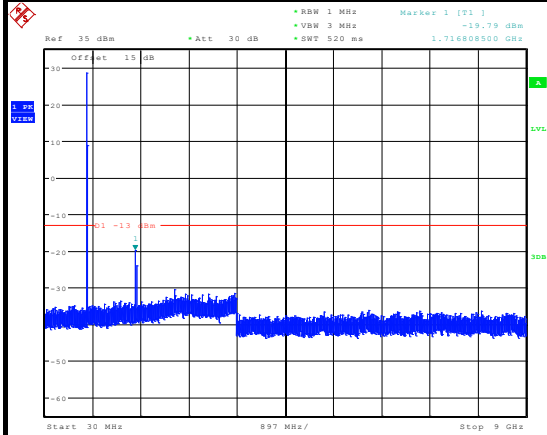


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**FREQUENCY RANGE : 30MHz~9GHz**

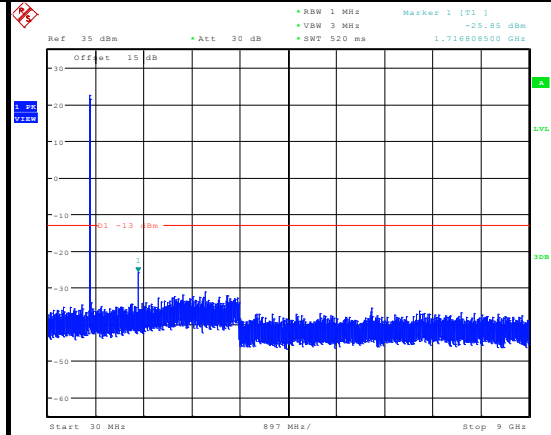
**LTE Band 26 (Channel Bandwidth: 1.4MHz)**

**CHANNEL 26740**



**LTE Band 26 (Channel Bandwidth: 3MHz)**

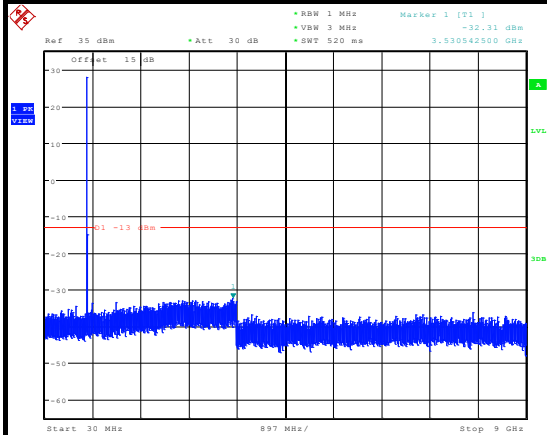
**CHANNEL 26740**



**FREQUENCY RANGE : 30MHz~9GHz**

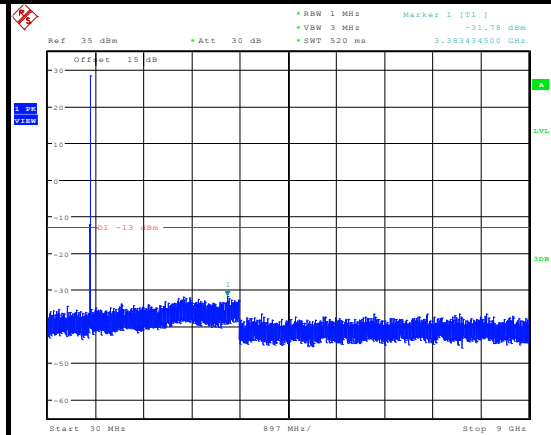
**LTE Band 26 (Channel Bandwidth: 5MHz)**

**CHANNEL 26740**



**LTE Band 26 (Channel Bandwidth: 10MHz)**

**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  $-13\text{dBm}$ .

### 4.6.2 TEST PROCEDURES

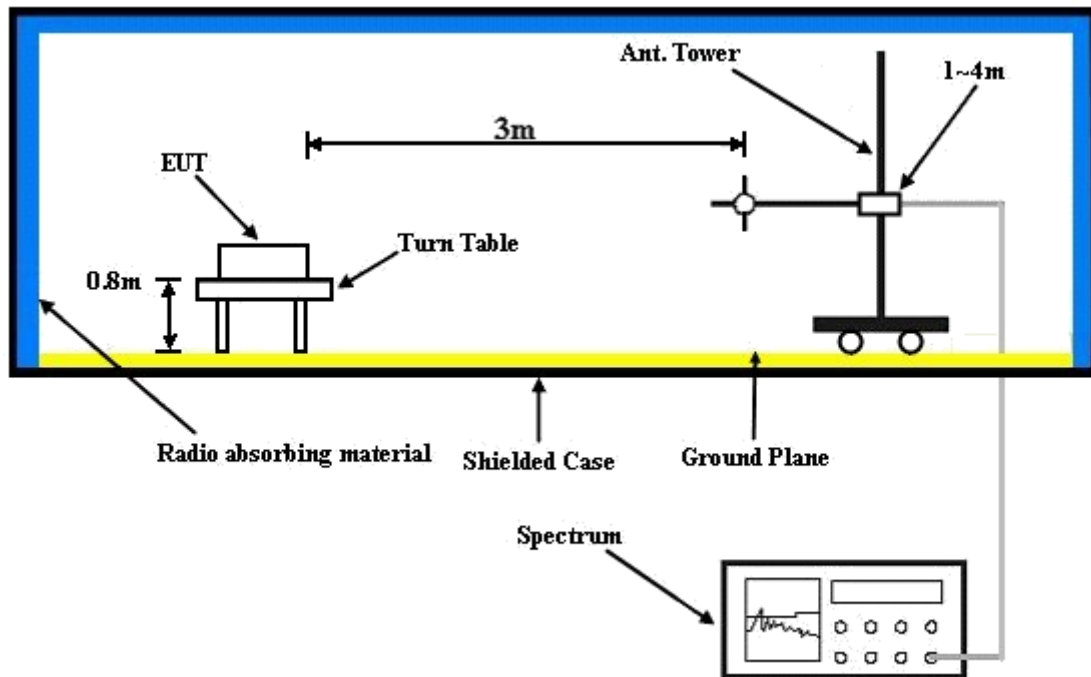
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from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

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

### 4.6.3 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).

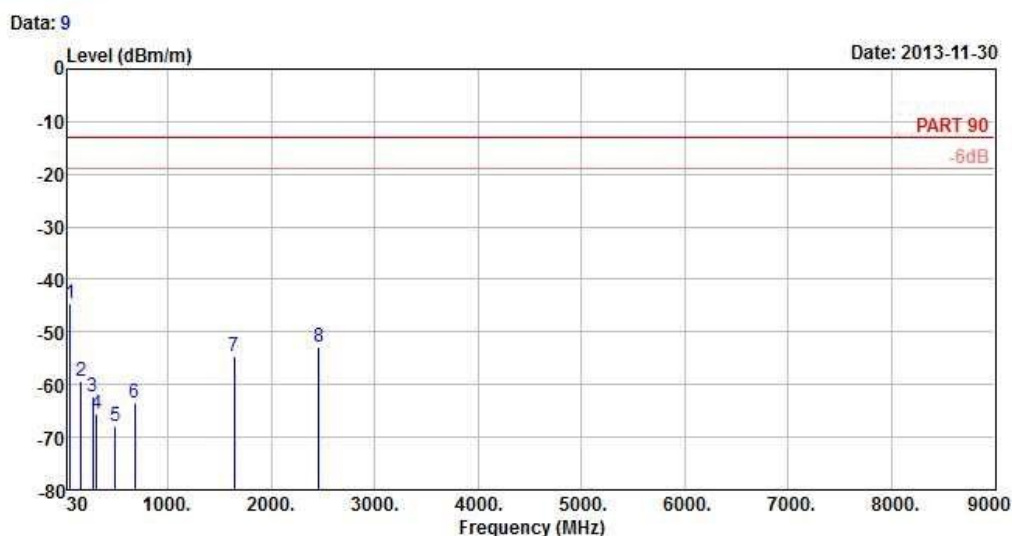
### 4.6.5 TEST RESULTS

#### CDMA:



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Site : 966 Chamber 5  
 Condition : PART 90 3m HORIZONTAL  
 Brand/Model: G81-C6725  
 Remark : 1xRTT800 Link  
 Tested by : Johnson Liao  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Z  
 Sample No : C131120-002-024-006

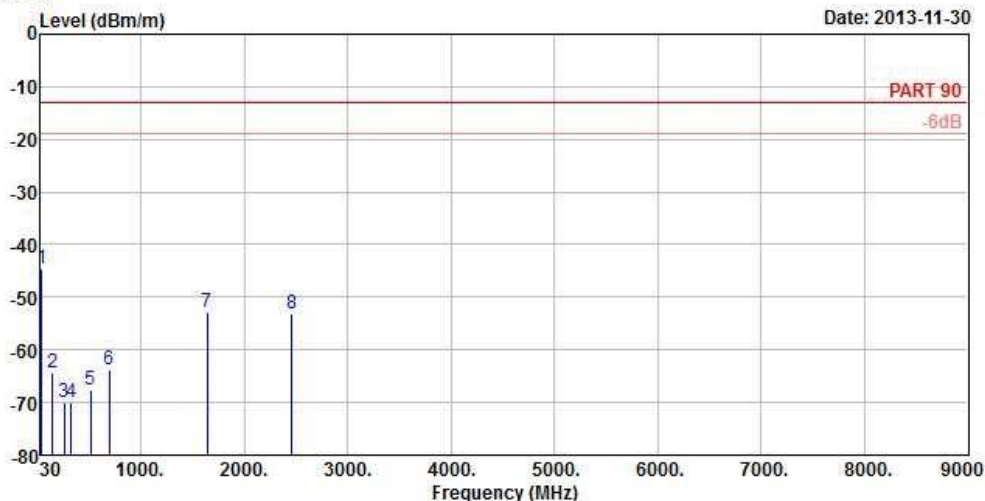
	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1 pp	56.19	-44.66	-39.16	-13.00	-31.66	-5.50 Peak
2	162.30	-59.32	-52.77	-13.00	-46.32	-6.55 Peak
3	271.92	-62.42	-56.44	-13.00	-49.42	-5.98 Peak
4	308.40	-65.59	-59.27	-13.00	-52.59	-6.32 Peak
5	493.20	-67.80	-64.54	-13.00	-54.80	-3.26 Peak
6	677.30	-63.47	-64.50	-13.00	-50.47	1.03 Peak
7	1641.00	-54.55	-40.70	-13.00	-41.55	-13.85 Peak
8	2461.50	-52.98	-42.92	-13.00	-39.98	-10.06 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 10



Site : 966 Chamber 5  
 Condition : PART 90 3m VERTICAL  
 Brand/Model: G81-C6725  
 Remark : 1xRTT800 Link  
 Tested by : Johnson Liao  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Z  
 Sample No : C131120-002-024-006

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp	37.83	-44.63	-42.68	-13.00	-31.63	-1.95 Peak
2		144.21	-64.44	-58.46	-13.00	-51.44	-5.98 Peak
3		255.72	-70.00	-64.24	-13.00	-57.00	-5.76 Peak
4		323.80	-70.10	-63.90	-13.00	-57.10	-6.20 Peak
5		513.50	-67.52	-64.78	-13.00	-54.52	-2.74 Peak
6		689.90	-63.79	-65.05	-13.00	-50.79	1.26 Peak
7		1641.00	-52.95	-39.10	-13.00	-39.95	-13.85 Peak
8		2461.50	-53.27	-43.21	-13.00	-40.27	-10.06 Peak





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### LTE Band 26

CHANNEL BANDWIDTH: 1.4MHz / QPSK

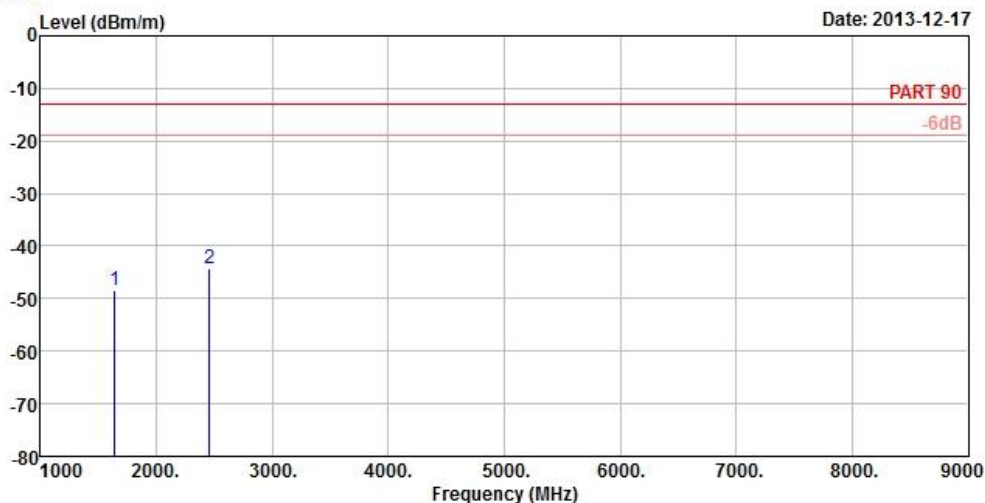


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2013-12-17



Site : 966 Chamber 5  
 Condition : PART 90 3m HORIZONTAL  
 Brand/Model: G81-C6725  
 Remark : Band 26 1.4M QPSK(1,2) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y  
 Sample No : C131120-004-024-005

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1638.00	-48.27	-34.40	-13.00	-35.27	-13.87	Peak
2 pp	2457.00	-44.38	-34.32	-13.00	-31.38	-10.06	Peak



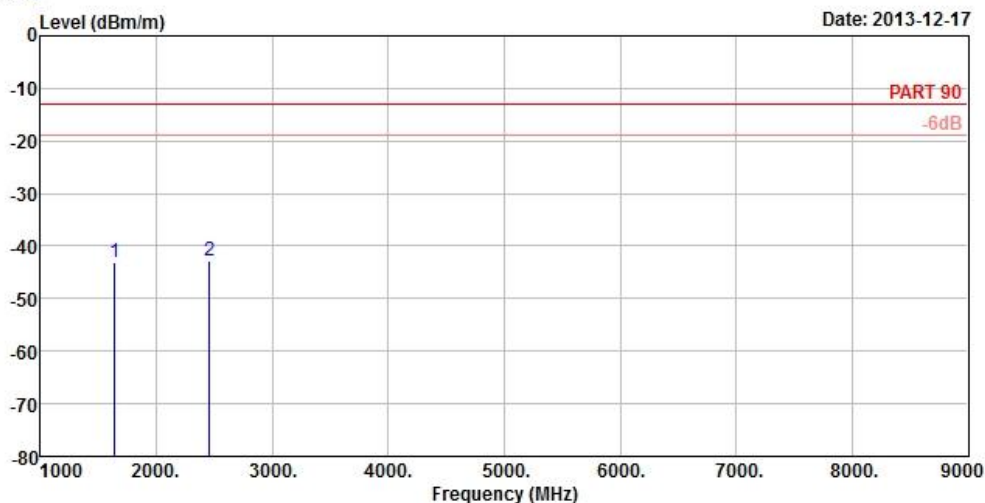
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 6



Site : 966 Chamber 5  
 Condition : PART 90 3m VERTICAL  
 Brand/Model: G81-C6725  
 Remark : Band 26 1.4M QPSK(1,2) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y  
 Sample No : C131120-004-024-005

	Freq MHz	Level dBm/m	Read	Limit	Over	Factor	Remark
			Level dBm	Line dBm/m	Limit dB		
1	1638.00	-43.09	-29.22	-13.00	-30.09	-13.87	Peak
2 pp	2457.00	-42.93	-32.87	-13.00	-29.93	-10.06	Peak

LTE Band 26

CHANNEL BANDWIDTH: 3MHz / QPSK

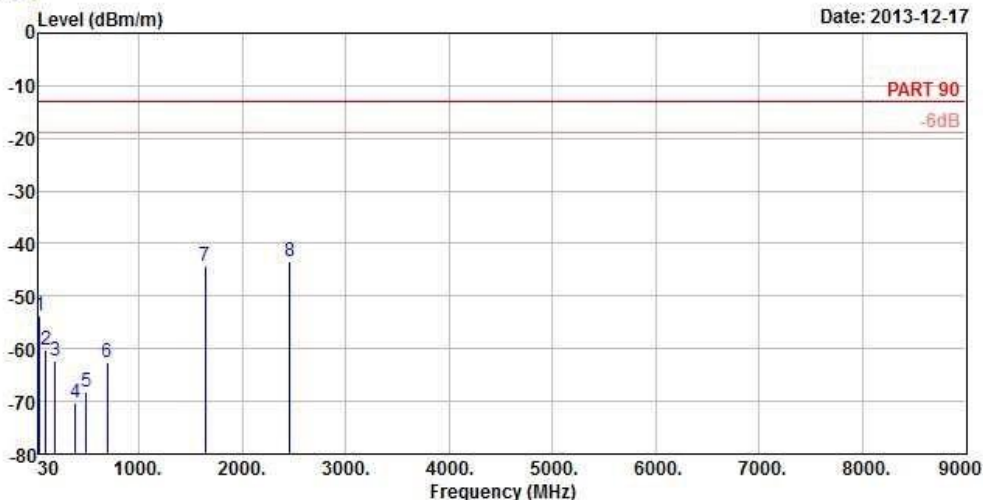


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 9

Date: 2013-12-17



Site : 966 Chamber 5  
 Condition : PART 90 3m HORIZONTAL  
 Brand/Model: G81-C6725  
 Remark : Band 26 3M QPSK(1,7) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y  
 Sample No : C131120-004-024-005

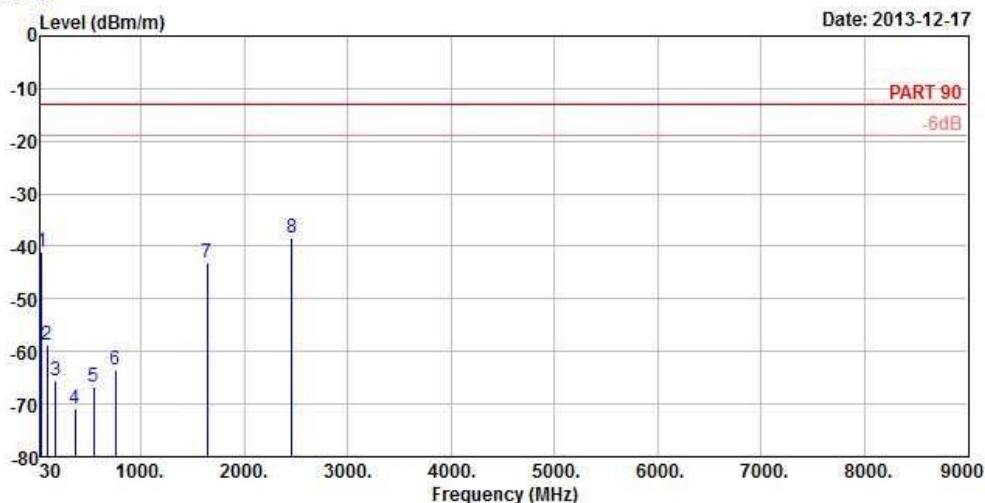
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	40.53	-53.82	-52.36	-13.00	-40.82	-1.46	Peak
2	96.42	-60.22	-49.75	-13.00	-47.22	-10.47	Peak
3	192.81	-62.16	-55.01	-13.00	-49.16	-7.15	Peak
4	384.00	-70.23	-64.48	-13.00	-57.23	-5.75	Peak
5	493.90	-68.29	-65.03	-13.00	-55.29	-3.26	Peak
6	695.50	-62.70	-64.06	-13.00	-49.70	1.36	Peak
7	1638.00	-44.15	-30.28	-13.00	-31.15	-13.87	Peak
8 pp	2457.00	-43.46	-33.40	-13.00	-30.46	-10.06	Peak



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Data: 10



Site : 966 Chamber 5  
 Condition : PART 90 3m VERTICAL  
 Brand/Model: G81-C6725  
 Remark : Band 26 3M QPSK(1,7) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y  
 Sample No : C131120-004-024-005

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	39.99	-41.14	-39.61	-13.00	-28.14	-1.53	Peak
2	95.61	-58.82	-48.35	-13.00	-45.82	-10.47	Peak
3	176.88	-65.41	-58.99	-13.00	-52.41	-6.42	Peak
4	363.70	-70.77	-64.86	-13.00	-57.77	-5.91	Peak
5	545.00	-66.79	-64.92	-13.00	-53.79	-1.87	Peak
6	750.80	-63.47	-65.26	-13.00	-50.47	1.79	Peak
7	1638.00	-43.01	-29.14	-13.00	-30.01	-13.87	Peak
8 pp	2457.00	-38.31	-28.25	-13.00	-25.31	-10.06	Peak

**LTE Band 26**  
**CHANNEL BANDWIDTH: 5MHz / QPSK**

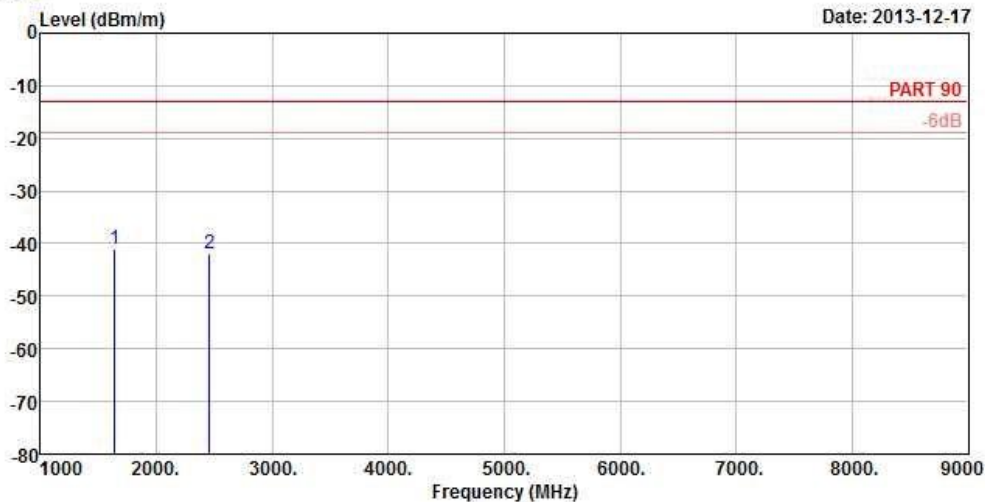


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2013-12-17



Site : 966 Chamber 5  
 Condition : PART 90 3m HORIZONTAL  
 Brand/Model: G81-C6725  
 Remark : Band 26 5M QPSK(1,12) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y  
 Sample No : C131120-004-024-005

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp 1638.00	-41.16	-27.29	-13.00	-28.16	-13.87	Peak
2	2457.00	-42.02	-31.96	-13.00	-29.02	-10.06	Peak



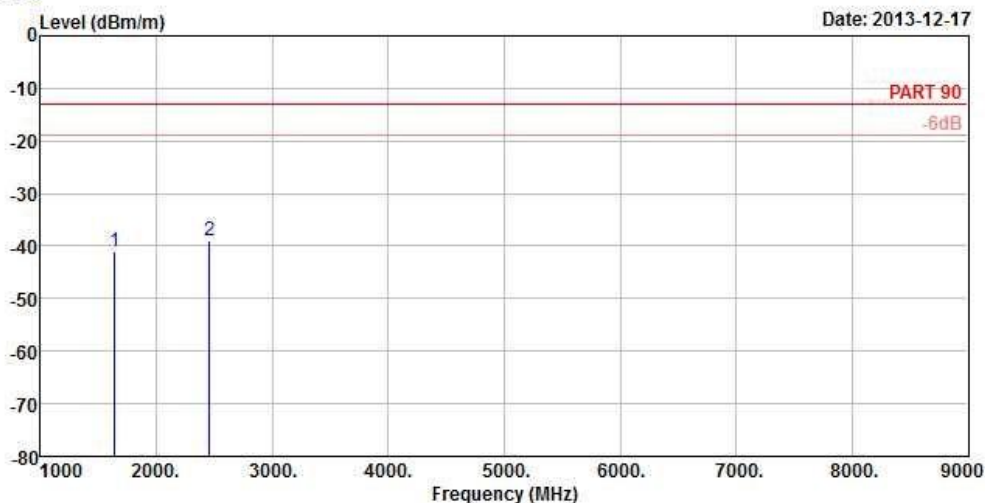
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5  
 Condition : PART 90 3m VERTICAL  
 Brand/Model: G81-C6725  
 Remark : Band 26 5M QPSK(1,12) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y  
 Sample No : C131120-004-024-005

	Freq MHz	Level dBm/m	Read	Limit	Over	Factor	Remark
			Level dBm	Line dBm/m	Limit dB		
1	1638.00	-41.00	-27.13	-13.00	-28.00	-13.87	Peak
2 pp	2457.00	-39.01	-28.95	-13.00	-26.01	-10.06	Peak

**LTE Band 26**

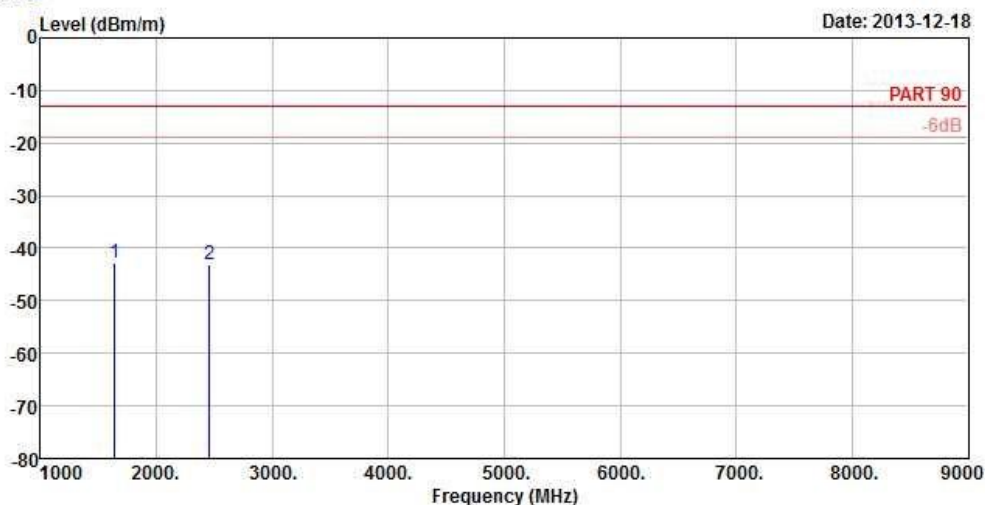
**CHANNEL BANDWIDTH: 10MHz / QPSK**



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Data: 5



Site : 966 Chamber 5  
 Condition : PART 90 3m HORIZONTAL  
 Brand/Model: G81-C6725  
 Remark : Band 26 10M QPSK(1,24) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y  
 Sample No : C131120-004-024-005

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	pp 1638.00	-42.88	-29.01	-13.00	-29.88	-13.87	Peak
2	2457.00	-43.24	-33.18	-13.00	-30.24	-10.06	Peak



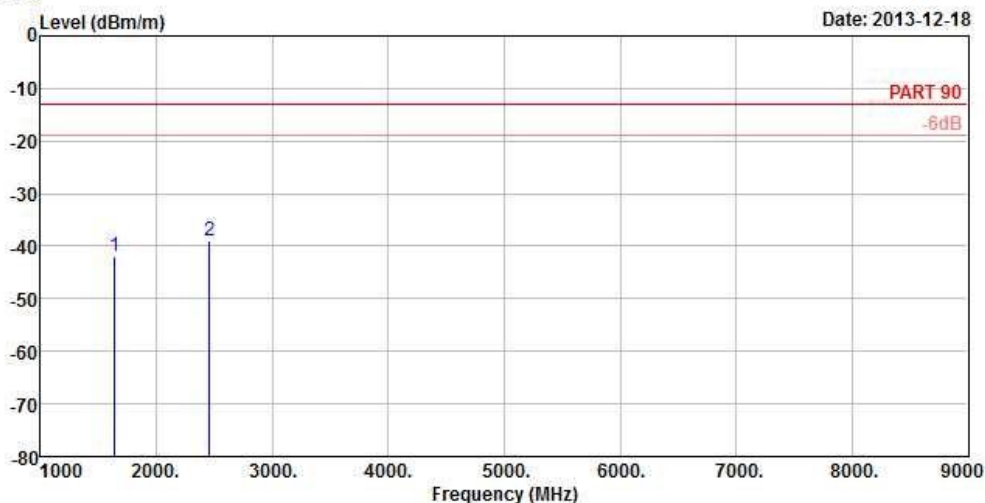
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### Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 6



Site : 966 Chamber 5  
 Condition : PART 90 3m VERTICAL  
 Brand/Model: G81-C6725  
 Remark : Band 26 10M QPSK(1,24) Link  
 Tested by : Anson Lin  
 Temperature : 25°C  
 Humidity : 65%  
 Plane : Y  
 Sample No : C131120-004-024-005

	Freq	Level	Read	Limit	Over	Factor	Remark
			Level	Line	Limit		
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	1638.00	-41.90	-28.03	-13.00	-28.90	-13.87	Peak
2 pp	2457.00	-38.96	-28.90	-13.00	-25.96	-10.06	Peak





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## 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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Fax: 886-3-3270892

**Email:** [service.adt@tw.bureauveritas.com](mailto:service.adt@tw.bureauveritas.com)

**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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



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

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

**---END---**